APPENDIX F

Geotechnical Investigation Report

Proposed Coachella Valley

Stormwater Channel Improvement Project

From Avenue 54 to Thermal Drop Structure

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April 8, 2016

GEOTECHNICAL INVESTIGATION REPORT

PROPOSED COACHELLA VALLEY STORMWATER CHANNEL IMPROVEMENT PROJECT FROM AVENUE 54 TO THERMAL DROP STRUCTURE

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Prepared for:

COACHELLA VALLEY
WATER DISTRICT

April 8, 2016

Coachella Valley Water District

GEOTECHNICAL INVESTIGATION REPORT

PROPOSED COACHELLA VALLEY STORMWATER CHANNEL IMPROVEMENT PROJECT FROM AVENUE 54 TO THERMAL DROP STRUCTURE

THERMAL AREA OF COACHELLA VALLEY
RIVERSIDE COUNTY
CALIFORNIA

Prepared For:

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Project No. 393-PB-CVSC

April 8, 2016

GENTERRA
CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

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April 8, 2016

Project No. 393-PB-CVSC

DRAFT FOR REVIEW

Mr. Mark E. Salmon, P.E.
Project Manager
Parsons Brinckerhoff
2150 River Plaza Drive, Suite 400
Sacramento, California 95833

Subject: **Geotechnical Investigation Report**
Proposed Coachella Valley Stormwater Channel Improvement Project
From Avenue 54 to Thermal Drop Structure
Thermal Area of Coachella Valley
Riverside County, California
GENTERRA Project No. 393-PB

Dear Mr. Salmon:

GENTERRA Consultants, Inc. (GENTERRA) is pleased to submit this report to Parsons Brinckerhoff (PB) presenting the results of our geotechnical investigation for the proposed Coachella Valley Stormwater Channel Improvement Project in the Thermal Area of the Coachella Valley in Riverside County, California. GENTERRA performed this work as an approved Subconsultant to PB, who is the prime consultant on this project for the Coachella Valley Water District (CVWD). This investigation was conducted in general accordance with the Scope of Work prepared by GENTERRA and submitted to PB, dated April 29, 2015. Our Scope of Work was developed to cover the items discussed in the Geotechnical Investigation Section on Page A1-3 of the RFP dated April 6, 2015 from the CVWD.

PB had furnished our firm with a topographic map showing topographic features of the project site. This topographic map had been developed using Aerial Photogrammetry performed on September 2, 2015 by another subcontractor to PB. GENTERRA also received an updated topographic map of the project site on March 28, 2016 from PB. PB had also furnished us with design drawings associated with the side lining of the banks upstream of the project site.

This geotechnical investigation was performed to develop geotechnical design recommendations for the design of a concrete-lined trapezoidal channel, modifications to the Thermal Drop Structure, and potential improvements of the Coachella Valley Stormwater Channel (CVSC) banks and levees within the reach of the Project. Since there is a possibility that concrete-lined trapezoidal channel as proposed in the Scope of Work may not be accepted by reviewing agencies, we also performed limited engineering analyses to develop recommendations for the side lining of banks only. Since scour depth information under the 100-year and the Standard Project Flood (SPF) events are not

available for this project, scour depth was assumed using design drawings associated with the side lining of the banks upstream of the project site.

Based on the FEMA Levee Certification Criteria for a 100-year flood event and results of previous hydraulic analyses and alternatives studies by CVWD, a portion of the CVSC is considered to be subject to overflow or breaching. The current study by Northwest Hydraulic Consultants (NHC) for the subject project will determine the portions that lack the minimum freeboard requirements. Based on the results of the NHC study, a portion of the existing banks or levees may need to be raised to meet the minimum freeboard requirements.

Considering the subsurface and groundwater conditions within the project limits, it will be very expensive to improve the project site to develop a robust design for the proposed lining of the CVSC. Therefore, GENTERRA proposes a minimum level of remedial work for this project to alleviate some of the consequences during a significant earthquake. Please note that, if necessary, GENTERRA can provide recommendations for a comprehensive ground improvement program that can completely alleviate potential issues related to earthquakes. After implementation of the limited remedial work as proposed in this report, some cracking to the proposed liner and some displacement of the banks may occur during a significant earthquake event due to seismic-induced differential settlement and lateral spreading. Since the occurrence of such a significant earthquake event will rarely coincide with a significant storm event, and rather than implementing comprehensive mitigation measures, it may be economical instead to plan on making necessary urgent repairs immediately after a significant earthquake event that causes some cracking in the liner and some displacement to the banks. We recommend that CVWD develop a plan for making necessary urgent repairs and allocate resources to perform immediate inspection of the CVSC immediately after a significant earthquake event and to plan and perform any needed repairs in a timely manner.

Please note that evaluation of existing bridges is beyond our scope of work; however, we anticipate that significant improvement will be needed to keep the bridges in service after a significant earthquake.

Based on the FEMA Levee Certification Criteria for a 100-year flood event, our geotechnical/geologic evaluation and geotechnical analyses, and the results of previous studies by CVWD, a portion of the CVSC may not have adequate freeboard (especially near the existing railroad and Highway 111 bridges) under the existing condition. Also, the CVSC does not have adequate protection to prevent erosion along the entire length within the project limits, except in the bridge areas that are armored to prevent erosion. Therefore, the portion of the existing CVSC from Avenue 54 to Thermal Drop Structure, under the subject investigation, does not currently meet FEMA levee certification criteria.

If our recommendations as summarized below and presented in detail in Section 7 of this report are implemented, then the existing levee can meet FEMA levee certification criteria.

Based on the results of our investigation, some remedial grading work, as well as concrete lining to prevent erosion of the channel banks, will be necessary to meet the FEMA levee certification criteria for the CVSC segment addressed in this investigation. As part of the required remedial grading for this project and as related to the concrete-lined trapezoidal channel, we recommend removing at least the upper 5 feet (in the vertical direction) of existing soils in the bottom channel area and at least 8 feet (in the horizontal direction) of existing soils beneath the proposed side slope lining in the areas of the channel slopes. Please note that in some areas of the channel bottom, it will be necessary to remove up to about 15 feet of soil to reach the grade at which to construct the bottom slab of the concrete-lined trapezoidal channel. In areas where more than 5 feet of upper existing soils will be removed to reach the grade to construct the bottom slab of the trapezoidal channel, the remedial requirement to remove at least the upper 5 feet of existing soils will be automatically met.

To mitigate the potential for unacceptable differential settlement, and to provide uniform support for the concrete lining, we recommend placement of at least 2 feet of properly compacted fill soils underneath the bottom slab.

In addition, it will be necessary to either perform remedial grading to raise the bank of the channel or to construct flood walls in some portions of the CVSC to provide adequate freeboard under a 100-year flood event. The extent of the area for this remedial work will be determined by NHC.

Since the CVSC does not have adequate protection to prevent erosion along the entire length within project limits, except the bridge areas that are armored to prevent erosion, GENTERRA recommends using reinforced concrete-lined trapezoidal channel which will perform much better than the option of only lining the banks. If concrete-lined trapezoidal channel is not feasible due to other factors for this project then, as the minimum requirement, banks (side slopes) of the CVSC should be lined with reinforced concrete. The toe of this side liner should extend at least to the recommended scour depth to be determined for this project. Whatever the option chosen by CVWD for remedial work, we recommend that CVWD develop a plan for allocating resources to perform inspection of the CVSC system immediately after a significant earthquake event and to plan and perform any needed repairs in a timely manner.

Also, some modifications to the existing grouted riprap liner may be required in bridge areas to accommodate the anticipated flow under a 100-year flood event. In some areas, repair of levee slopes to make them uniform and to fill in existing gullies will be required.

Upon completion of the remedial work as described above, the existing CVSC from Avenue 54 to the Thermal Structure can meet FEMA levee certification criteria. However, further remedial work is necessary to meet CVWD requirements for freeboard under the Standard Project Flood event. It will be necessary to either perform additional remedial

work to raise the bank or to build flood walls to provide adequate freeboard under the Standard Project Flood event.

Based on review of groundwater information that we collected during our field investigation, as well as our review of groundwater information in and around the project limits, groundwater will have an impact on the construction of proposed improvements.

Liquefaction of the underlying soils at the project site may induce lateral spreading of the channel banks. Lateral spreading may cause deformation of the channel slopes along the channel alignment. Such ground failure may impact the purpose of the channel. If CVWD wants to perform comprehensive mitigation measures before the construction of the concrete lining, we can provide recommendations for mitigation measures. It will be very expensive to implement mitigation measures to prevent lateral spreading. Please note that impacts due to lateral spreading can be minimized with a concrete-lined trapezoidal channel provided that the proposed concrete lining is designed to accommodate the anticipated liquefaction-induced and seismic-induced total settlement of about 1 to 4 inches and differential settlement of about ½ inch over 100 feet.

The results of our geotechnical investigation and recommendations for necessary mitigation measures are presented in this report. Please note that copies of the geotechnical investigation report should be submitted to appropriate agencies to obtain permits that will be required for the construction of the remedial measures.

We appreciate this opportunity to provide you with our professional services. Please contact Dr. Soma Balachandran or me at (949) 753-8766 if you have any questions or comments.

Sincerely,

GENTERRA CONSULTANTS, INC.

Joseph J. Kulikowski, P.E., G.E.
Project Manager
President & Senior Principal Engineer
RCE 17478, GE 491

cc: Tesfaye Demissie, P.E., Project Manager, Coachella Valley Water District

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EXECUTIVE SUMMARY

GENTERRA Consultants, Inc. (GENTERRA) has completed a geotechnical investigation for the proposed Coachella Valley Stormwater Channel (CVSC) Improvement Project in the Thermal Area of Coachella Valley in Riverside County, California (Figure 1, Vicinity Map). The locations of Cone Penetration Tests (CPTs) and Hollow Stem Auger Borings along the CVSC within the project limits are shown on Figures 2-1 and 2-2, Site Investigation Plan.

The geotechnical investigation of the CVSC between Avenue 54 and the Thermal Drop Structure was performed to determine if the levee meets the geotechnical requirements of Section 65.10 of the National Flood Insurance Program (NFIP) regulations and to determine whether the Levee meets the Federal Emergency Management Agency (FEMA) criteria for slope stability, foundation stability and settlement, and to fulfill FEMA requirements for levee analyses as described in Section E of FEMA's MT-2 Form 3. The scope of work also includes the evaluation and recommendation of required mitigation measures for both for the 100-year flood and the Standard Project Flood (SPF) events.

The criteria for meeting FEMA certification requirements for a levee are as follows:

- The levee must have adequate freeboard, which is 3 feet for the 100-year flood event;
- The embankment protection must demonstrate no appreciable erosion of levee embankment during the base 100-year flood;
- The embankment and its foundation must be stable and not have experienced detrimental seepage; and,
- The embankment must not be subject to appreciable settlement.

The geotechnical investigation was also performed to develop recommendations for the design of the proposed lining, improvements of the CVSC banks and levees, and modifications to the Thermal Drop Structure.

As part of our scope of work, an inspection of the project site was performed on September 9, 2015. Based on the results of our inspection, some remedial work is necessary to meet the certification criteria for this CVSC levee segment between Avenue 54 and the Thermal Drop Structure to acceptable criteria. Required remedial work includes repair of channel/bank slopes, repair of levee embankment crest and slopes to make them uniform and installation of concrete liners to prevent erosion of the bank and levee slopes. Remedial work will also be required to raise the levee in areas that have potential for overflow or breaching under the 100-year flood event. The levee area to be raised will be determined by NHC.

A two-phase geotechnical subsurface investigation was performed for this project: Phase 1- Cone Penetration Tests (CPTs) and Phase 2 - Hollow Stem Auger Borings and Laboratory Soil Testing. The field work for Phase 1 was conducted from October 7 to 8, 2015 and the field work for Phase 2 was conducted from October 19 to 22, 2015. The results of this two-phase investigation are presented in Appendix A through Appendix B.

Based on materials encountered in our geotechnical explorations within project limits and our review of other published materials, the site is underlain by artificial fill, alluvial materials consisting of silty sand, clayey sand, lean clay, lean clay with sand, sandy lean clay, silty clay, silty clay with sand, sandy silty clay, sandy silt, silt with sand, poorly graded sand and poorly graded sand with silt.

The on-site soils will present severe attack on concrete. Therefore, Type V cement can be used for any mitigation measures that involve the use of cement. The test results also indicate that the on-site soils are severely corrosive to ferrous metals. Any ferrous metals or metallic piping that may be needed to construct any project features should have proper protection to prevent corrosion.

Groundwater was encountered in all twelve exploratory borings during the time of the investigation. Borings at the channel bottom and near the Thermal Structure encountered

groundwater at shallow depths ranging from 8 to 14 feet below the existing ground surface. Borings at the levee crest encountered groundwater at depths ranging from 24 to 37 feet below the existing ground surface. As indicated in Department of Water Resources Well Number 336407N1161430W001 located at the southeast corner of the intersection of Airport Boulevard and Highway 111, groundwater depths may be between 18 and 38 feet below ground surface. Based on available data, it appears that shallow groundwater has been present recently or historically within project limits. Due to the existence of shallow groundwater and loose subsurface materials in the foundation of the levee, the potential for liquefaction of the levee foundation is considered high. Therefore, liquefaction-induced settlement is expected to occur along the entire alignment within project limits. Also, there are loose soil layers existing above the groundwater table. These soil layers will undergo seismic-induced dry settlement. The anticipated liquefaction-induced and seismic-induced total settlement is about 1 to 4 inches and differential settlement is about ½ inch over 100 feet.

Liquefaction of the underlying soils at the project site may induce lateral spreading of the levee slopes/channel banks. Lateral spreading may cause deformation of the levee slopes/channel banks along the channel alignment. Such ground deformation may impact the carrying capacity of the channel. If CVWD wants to perform comprehensive mitigation measures before the construction of the concrete lining, we can provide recommendations for mitigation measures. It will be very expensive to implement mitigation measures to prevent lateral spreading. Please note that impacts due to lateral spreading can be minimized with a concrete-lined trapezoidal channel provided that the proposed concrete lining is designed to accommodate the anticipated liquefaction-induced and seismic-induced total settlement of about 1 to 4 inches and differential settlement of about ½ inch over 100 feet.

Considering the subsurface soil conditions and groundwater conditions within project limits, it will be very expensive to improve the project site to develop a robust design for the proposed lining of the CVSC. Therefore, GENTERRA proposes a minimum level of

remedial work for this project to alleviate some of the consequences during a significant earthquake. Please note that, if necessary, GENTERRA can provide recommendations for a comprehensive ground improvement program that can completely alleviate potential issues related to earthquakes. With limited remedial work as proposed in this report, some cracking to the proposed liner and some displacement of the banks may occur during a significant earthquake event due to seismic-induced differential settlement and lateral spreading. Since the occurrence of such a significant earthquake event will rarely coincide with a significant storm event, and rather than implementing comprehensive mitigation measures, it may be economical instead to plan on making necessary urgent repairs immediately after a significant earthquake event that causes some cracking in the liner and some displacement to the banks. We recommend that CVWD develop a plan for making necessary urgent repairs and allocate resources to perform immediate inspection of the CVSC immediately after a significant earthquake event and to plan and perform any needed repairs in a timely manner.

Based on the available geologic data, active or potentially active faults with the potential for surface fault rupture are not located beneath or projecting towards the site. In our opinion, the potential for surface rupture at the site due to fault plane displacement propagating to the ground surface during the design life of the project is considered to be very low.

The potential for other geologic hazards such as inundation and flooding exists at the project site, and therefore the existing levee may be impacted by flooding and associated scour if no mitigation measures are implemented or if the flow exceeds the flood events that are considered in this study.

The potential for other geologic hazards, such as tsunamis and subsidence, affecting the site is considered to be very low.

Remedial grading is necessary to improve the levee's crest area and levee's slopes at some locations to remove surficial materials and bring the levee's crest and levee's slopes to a uniform condition. Some mitigation measures can be implemented to prevent or reduce future erosion gullies and shallow surficial failures during heavy and extended periods of rain, if funds are available, or they can be remedied as they occur as periodical maintenance issues.

Based on the results of our field investigation, the results of previous studies by CVWD, our engineering analyses, and the FEMA certification criteria for the 100-year flood event, the subject CVSC does not have adequate freeboard at some locations under the existing condition. Since the existing levee does not have adequate freeboard at some locations and does not have adequate protection to prevent erosion along almost the entire length of the CVSC portion under the subject study for the 100-year flood event, the existing levee does not meet FEMA levee certification criteria.

If remedial recommendations presented in this report are properly implemented to provide adequate protection to prevent overtopping and to prevent erosion of the CVSC banks and levees, then the existing levee can meet FEMA levee certification criteria.

If additional remedial recommendations presented in this report are properly implemented to provide adequate protection to prevent overtopping under Standard Project Flood event, then the existing levee can meet CVWD criteria as well.

1.0 SCOPE OF WORK

The geotechnical investigation that is discussed in this report was conducted by GENTERRA Consultants, Inc. (GENTERRA) in general accordance with the Scope of Work described in GENTERRA's proposal dated April 19, 2015. This Scope of Work was authorized by PB on August 20, 2015. The scope of work included review of background information, geologic and geotechnical reconnaissance, subsurface exploration and laboratory testing, geotechnical engineering analyses and this report.

The approximate location of the project limits is shown on Figure 1, Vicinity Map. The locations of the existing CVSC between Avenue 54 and the Thermal Drop Structure in the Thermal Area of the Coachella Valley in Riverside County, California, the locations of the Cone Penetration Tests (CPTs), and the locations of the Hollow Stem Auger Borings are shown on Figures 2-1 and 2-2, Site Investigation Plan.

The geotechnical investigation of the CVSC between Avenue 54 and the Thermal Drop Structure was performed to determine if the levee meets the geotechnical requirements of Section 65.10 of the National Flood Insurance Program (NFIP) regulations and to determine whether the levee meets the Federal Emergency Management Agency (FEMA) criteria for slope stability, foundation stability and settlement, and to fulfill FEMA requirements for levee analyses as described in Section E of FEMA's MT-2 Form 3. The scope of work also includes the evaluation and recommendation of required mitigation measures for both for the 100-year flood and the Standard Project Flood (SPF) events.

The geotechnical investigation was also performed to develop recommendations for, the design of the proposed lining, improvements of the CVSC banks and levees, and modifications to the Thermal Drop Structure.

Our conclusions and recommendations are based on geotechnical explorations performed along the CVSC within project limits, published information that we reviewed for the project area, and engineering analyses that we performed for the project.

2.0 SITE CONDITIONS

As part of our scope of work, on September 9, 2015, GENTERRA representatives visited the site to perform a site reconnaissance of the Coachella Valley Stormwater Channel (CVSC) and associated levee within the project limits.

Based on our observations during our site reconnaissance as well as our observations of the project site during the field exploration work on October 19 through 22, 2016, the banks of the unlined portions of channel have moderate slope (varies between about 3H:1V [Horizontal:Vertical] to about 4H:1V) while the protected banks near the existing bridges (Highway 111 bridge and two Union Pacific railroad bridges) have a slope of about 2H:1V. In general, the bottom of the channel is sloping gently toward its central portion. The channel's banks and its bottom have varying level (sparse to heavy) of vegetation and the exposed surface is composed primarily of loose silty sand and poorly graded sand with silt. The soil on the channel's bottom in some areas appears to be coated with salt. An incised smaller channel with flowing water was located approximately within the central portion of the main channel. Heavy vegetation such as trees, shrubs and grasses were observed along and within this incised channel.

Earthen levees with varying height were observed along most of the channel's sides with a slope of about 2H:1V on the landside and the riverside (channel side) slope varies between about 3H:1V to about 4H:1V. Levees were not needed at some locations due to the topographic nature of the project site. Levees had been constructed primarily using sandy materials over natural alluvial foundation materials.

A drop structure with grouted riprap surface is located within the channel in the southern end of the project limit (south of Highway 111). A relatively large concrete structure

(probably a structure with access to the blow-off valve or control valve of Irrigation Lateral 99.8) is located in the central portion of the channel north of Highway 111.

There are four bridges that cross the channel: one at Airport Boulevard, one at Highway 111, and two Union Pacific railroad bridges immediately adjacent to Highway 111. There is a boxed culvert (Avenue 57 Drain) that crosses the eastern slope of the channel near 57th Avenue. No other manmade structures were observed within the project limits.

There are several utility lines traversing the project site. Three markers for buried utilities were observed adjacent to the railroad bridge; one of these markers noted the presence of a high pressure natural gas line. The other two markers were for communication lines. There may be other oil pipelines running adjacent to the railroad. Utility poles and electric lines were observed along the western side of the western levee. There are utility lines that cross the channel at or near the existing bridges and Avenue 54.

3.0 PROJECT DESCRIPTION

The Coachella Valley Stormwater Channel (CVSC) is the man-made extension of the Whitewater River Stormwater Channel from Washington Street to the Salton Sea. The CVSC was designed and constructed in segments between the late 1960s and early 1970s.

As part of CVWD's master planning efforts, CVWD has performed hydraulic and alternative analyses of the CVSC from Monroe Street to the Salton Sea to determine its conveyance capacity. The analyses had indicated that a portion of the CVSC is subject to overflow or breaching due to insufficient capacity from Avenue 54 to the Salton Sea. The flood hazard results for the CVSC (from Monroe Street to the Salton Sea) are included in the Federal Emergency Management Agency's (FEMA's) Levee Analysis and Mapping Procedure (LAMP) pilot program.

CVWD proposes flood control improvements to the CVSC from Avenue 54 to the Thermal Drop Structure based on the results of previous studies. Parsons Brinckerhoff (PB) is the prime consultant for the subject project to provide services related to development of construction drawings, technical specifications and the associated environmental documentation for the CVSC from Avenue 54 to the Thermal Drop Structure. The overall scope of work includes the design of a concrete lined trapezoidal channel, modifications to the Thermal Drop Structure, and potential improvements of the CVSC banks and levees within the reach using the results of current geotechnical investigation by GENTERRA and the results of hydraulic studies by NHC. The scope also includes a preliminary evaluation and cost comparison of protection from the 100-year flood versus the SPF.

The geotechnical engineering services necessary to develop geotechnical design recommendations for the design of a concrete-lined trapezoidal channel, modifications to the Thermal Drop Structure, and potential improvements of the CVSC banks and levees within the reach, are the objectives of this geotechnical investigation.

As part of the investigation process, it is necessary to determine if the levee meets the geotechnical requirements of Section 65.10 of the National Flood Insurance Program (NFIP) regulations and the Federal Emergency Management Agency (FEMA) criteria for slope stability, foundation stability and settlement, and fulfill FEMA requirements for levee analyses as described in Section E of FEMA's MT-2 Form 3. Also, CVWD requested PB to evaluate the levee under both the 100-year flood event and the Standard Project Flood (SPF) event and to provide necessary geotechnical engineering recommendations for required mitigation measures for both the 100-year flood and the Standard Project Flood (SPF) events.

4.0 FIELD EXPLORATION

A two-phase geotechnical subsurface investigation was performed by GENTERRA for this project, consisting of the following:

Phase 1 – Cone Penetration Tests (CPTs)

Phase 2 – Hollow Stem Auger Borings and Laboratory Soil Testing

The field work for Phase 1 was conducted from October 7 to 8, 2015 and the field work for Phase 2 was conducted from October 19 to 22, 2015.

Phase 1 – Cone Penetration Tests

The Cone Penetration Tests (CPTs) were performed by Kehoe Testing and Engineering as a Subcontractor to GENTERRA, under the observation of personnel from GENTERRA. Fourteen (14) CPTs, including four (4) seismic cone penetration tests (SCPTs) were performed along the crest area of the levee to depths ranging from 30 feet to 50 feet. The locations of these CPTs are shown on Figures 2-1 and 2-2, Site Investigation Plan. The objective of this work was to make assessments of the subsurface conditions. CPT data are valuable tools in the assessment of liquefaction and seismic-induced settlement. While this data must be supplemented by geotechnical borings and laboratory testing, they remain as valuable tools for making quick assessments of subsurface soil conditions. The CPT results are presented in Appendix A, Results of Cone Penetration Tests.

Phase 2 - Hollow Stem Auger Borings and Laboratory Testing

Twelve (12) Hollow Stem Auger Borings (BH-1 through BH-12) were drilled by 2R Drilling as a Subcontractor to GENTERRA, to depths ranging from 31½ feet to 51½ feet below existing ground using a truck-mounted drill rig and track-mounted drill rig equipped with an 8-inch-diameter hollow stem auger. The locations of these borings are shown on Figures 2-1 and 2-2, Site Investigation Plan. GENTERRA and the driller performed Standard Penetration Tests (SPTs) in all borings at 5-foot intervals and collected

undisturbed samples using Modified California Samplers. Bulk samples of upper soils were collected for soil classification and compaction tests. Samples collected with both disturbed and undisturbed methods were used to perform laboratory testing to determine the pertinent static physical characteristics of the subsurface materials within the limits of the Levee. The results were used to determine the stability of the channel/levee embankment slopes under static and seismic conditions as well as to estimate seismic-induced settlement of the levee. The results of Hollow Stem Auger Borings and Laboratory Testing are presented in Appendix B, Results of Field Exploration and Laboratory Testing.

Laboratory tests were assigned and performed by GENTERRA on selected samples obtained from the borings to aid in the classification of the soils and to determine the pertinent engineering properties of the Levee embankment materials and foundation materials.

The following laboratory tests were assigned and performed:

Sieve Analysis
Percent Passing No. 200 Sieve
Moisture Content
Unit Weight
Direct Shear
Consolidation
Compaction
Chemical tests

All testing was done in general accordance with applicable ASTM specifications. Laboratory test results are presented in Appendix B.

5.0 GEOLOGY

5.1 GEOLOGIC SETTING

5.1.1 Regional Geologic Setting

The subject CVSC is located in the Thermal Area of the Coachella Valley, which lies in the northern end of the Salton Trough, a broad structural depression that extends to the southeast and includes the Salton Sea and Imperial Valley. The Coachella Valley is filled with alluvium and lacustrine (lake bed) sediments several thousand feet thick (Planert and Williams 1995). Dune and other sand deposits are often observed on the valley floor, formed by the northwest winds that blow sand down the valley (Beheiry 1967; Griffiths et al. 2002).

The Coachella Valley is bordered on the north by the San Bernardino and Little San Bernardino Mountains and on the south by the Santa Rosa Mountains. The Indio Hills lie along the northeastern edge of the Coachella Valley and the Little San Bernardino Mountains lie north and east of the Indio Hills. The Indio Hills are relatively low and are composed of coarse grained, alluvial fanglomerates of Pleistocene age. The Little San Bernardino Mountains are formed in Precambrian to Mesozoic age crystalline igneous and metamorphic rock (Proctor 1968).

The Regional Fault Map is shown on Figure 4 and Regional Geologic Map is shown on Figure 5. Based on our field evaluation, the Regional Geologic Map generally depicts the materials that are present along the subject Levee.

The San Andreas Fault Zone (SAFZ) is located along the northeastern margin of the Coachella Valley and parallels the Indio Hills. Major faults in this system include the Mission Creek, Banning, Garnet Hill, and Indio Hills Faults (Jennings 1994). The SAFZ forms a complex strike slip system resulting in both lateral and vertical displacement. The

Indio Hills were formed as a result of Quaternary uplift and lateral offset along the SAFZ. The SAFZ is seismically active. Its present slip rate near Indio is estimated to be about 30.5 millimeters/year (mm/yr) (1.2 inches per year) (Petersen and Wesnousky 1994).

Based on the available geologic data, active or potentially active faults with the potential for surface fault rupture are not located beneath or projecting towards the site. In our opinion, the potential for surface rupture at the site due to fault plane displacement propagating to the ground surface during the design life of the project is considered to be very low.

Historic earthquakes around the region of the project site are listed below:

1. A local (or Richer) Magnitude 6.3 (M_L) earthquake in December 1948 on the Mission Creek Fault near Desert Hot Springs;
2. A local Magnitude 5.6 (M_L) earthquake in July 1986 on the Banning Fault near North Palm Springs;
3. A moment Magnitude 7.3 (M_W) Landers earthquake in June 1992 in the Mojave Desert area, this earthquake ruptured 5 separate faults; Johnson Valley, Landers, Homestead Valley, Emerson, and Camp Rock faults. This 7.3 M_W was preceded by the 6.1 M_W Joshua Tree Earthquake in April 1992, and a moment Magnitude 7.1 (M_W) Hector mine earthquake in October 1999 in the remote part of Mojave Desert area; and,.
4. Three larger earthquakes (1918 San Jacinto earthquake, 1992 Landers earthquake and 1999 Hector Mine earthquake), exceeding Magnitude 6.5, have been recorded within 50 miles of the Coachella Valley since the late 1800s (EQSEARCH, 2015).

5.1.2 Local Geologic Setting

Review of published geologic literature, as well as information from our geotechnical investigation, show that the existing levee had been constructed on natural alluvial materials consisting of silty sand, clayey sand, lean clay, lean clay with sand, sandy lean

clay, silty clay, silty clay with sand, sandy silty clay, sandy silt, silt with sand, poorly graded sand and poorly graded sand with silt.

5.2 GEOLOGIC MATERIALS

Based on materials encountered in our geotechnical explorations performed along the Levee and our review of other published materials, the existing levee site is underlain by alluvial materials consisting of Review of published geologic literature, as well as information from our geotechnical investigation, show that the existing levee had been constructed on natural alluvial materials consisting of silty sand, clayey sand, lean clay, lean clay with sand, sandy lean clay, silty clay, silty clay with sand, sandy silty clay, sandy silt, silt with sand, poorly graded sand and poorly graded sand with silt.

Fourteen (14) Cone Penetration Tests (CPTs) were performed as part of this geotechnical investigation. Based on interpretations of the CPT data, the subsurface materials may be generally described to consist predominantly of sand, silty sand, clay and silty clay.

5.3 GROUNDWATER

Groundwater was encountered in all twelve exploratory borings during the time of the investigation. Borings at the channel bottom and near the Thermal Structure encountered groundwater at shallow depths ranging from 8 to 14 feet below the ground surface. Borings at the levee crest encountered groundwater at depths ranging from 24 to 37 feet below the existing ground surface. As indicated in Department of Water Resources Well Number 336407N1161430W001 located southeast corner of the intersection of Airport Boulevard and Highway 111, groundwater depths may be between 18 and 38 feet below ground surface. Based on available data, it appears that shallow groundwater has been present recently or historically within project limits.

It is our opinion that groundwater will have an impact on the construction of the remedial measures that are needed for the levee embankment to meet required freeboard during the 100-year flood event and the SPF event.

5.4 FAULTS

The Alquist-Priolo Special Studies Act of 1972 requires that zones along active faults be established to restrict construction of structures for human occupancy to mitigate the hazard of surface rupture. The levee is not mapped within an Alquist-Priolo special studies zone. Under the Alquist-Priolo criteria, an active fault is defined as one that has experienced surface displacement within the last 11,000 years (Holocene age). Numerous Late Quaternary (within the last 700,000 years) faults have been mapped in the region of the site. Based on the available geologic data, active or potentially active faults with the potential for surface fault rupture are not located beneath or projecting towards the site. In our opinion, the potential for surface rupture at the site due to fault plane displacement propagating to the ground surface during the design life of the project is considered to be very low.

The San Andreas Fault Zone

The San Andreas Fault Zone is the principal boundary between the Pacific and North American plates and locally has been divided into several segments. The San Bernardino Mountains segment is a structurally complex zone northwest of the project location and is composed of sub-parallel fault strands, the most important of these being the Mission Creek, San Gorgonio and Banning Faults. It is suggested that fault ruptures along the San Gorgonio branch can cause simultaneous rupture along the Banning Fault. Movement along this segment is estimated to be approximately 24 ±5 millimeters/year (mm/yr).

The southernmost portion of the San Andreas Fault Zone is the Coachella Valley segment. No earthquakes have been recorded on this segment in historic times, and ongoing analysis suggests that the last surface rupture on this segment occurred around 1680 AD. Studies at

Indio indicate that, prior to 1680, earthquakes on this fault occurred on an average interval of 220 years. There is evidence of simultaneous rupture along the San Bernardino and Coachella segments around 1680 and 1450. The Coachella segment has experienced creep (slow slippage) at the rate of about 4 mm/yr, but has a long-term slip rate of about 25 ±5 mm/yr.

Garnet Hill Fault

The Garnet Hill Fault extends from the vicinity of Whitewater Canyon to the vicinity of Edom Hill. Its orientation and proximity to the San Andreas Fault suggests that the Garnet Hill Fault is associated with the San Andreas and has even been suggested as an ancestral branch of this fault. While not identified by the state as an active (Holocene) fault, ground fractures associated with the 1986 North Palm Springs earthquake were reported along the trace of this fault. The western portion of the Garnet Hill Fault has been determined be active during Holocene time.

Other Faults

In addition to the major active fault branches associated with the San Andreas Fault Zone, there are numerous other active faults in the region that have the potential of impacting the subject Levee.

San Jacinto Fault Zone

The San Jacinto Fault Zone consists of a series of closely spaced faults that form the western margin of the San Jacinto Mountains. The fault zone extends from its junction with the San Andreas Fault in San Bernardino and runs southeasterly to Brawley and on to the U.S./Mexico border as the Imperial Fault. This active fault zone has generated at least ten moderate (Magnitude 6-7) earthquakes in the last 100 years.

Blue Cut Fault

The Blue Cut Fault is an east-west trending fault located along the north flank of the Eagle Mountains. This fault appears to be accommodating some of the north-south compression

that results from the "big bend" in the San Andreas Fault north of Los Angeles. It is considered one of the major active surface faults in Southern California but with very long recurrence intervals.

Johnson Valley Fault

The June 1992 Magnitude 7.6 Landers Earthquake occurred on the Johnson Valley Fault and was strongly felt in the Coachella Valley area. Trenching indicates that this fault last ruptured about 9,000 years ago.

Pinto Mountain Fault

The Pinto Mountain Fault is one of the major east-west trending faults, known to be associated with the San Andreas Fault to the southwest. While there is no evidence of recent faulting, the fault is active and did experience sympathetic ground ruptures due to the Landers Earthquake.

5.5 GEOLOGIC-SEISMIC HAZARDS

Fault Rupture

Based on available information from the California Geological Survey's Official Maps of the Alquist-Priolo Earthquake Fault Zones, the subject CVSC portion is not mapped within an Alquist-Priolo special studies zone.

Based on the available geologic data, active or potentially active faults with the potential for surface fault rupture are not located beneath or projecting towards the site. In our opinion, the potential for surface rupture at the site due to fault plane displacement propagating to the ground surface during the design life of the project is considered to be very low.

Seismicity

The project site could be subjected to strong ground shaking in the event of an earthquake. However, this hazard is common to California and the effects of ground shaking can be mitigated by urgent remedial grading after such event. To evaluate the subject levee performance under the Design Basis Earthquake (DBE), the ground motion with a 10% probability of exceedance in 50 years (equal to about 475-year return period) was selected based on our experience in evaluating similar systems under similar jurisdictional agencies.

Slope Stability

The site is not within an area having a potential for slope instability. There are no known landslides at the site nor is the site in the path of any known landslides.

Based on our evaluation, the potential for slope instability such as slip surface failure through the levee or translational sliding of the levee system or lateral spreading of the levee system at the project site is considered to be moderate. With proper remedial mitigation, this hazard can be minimized (see Section 6.2 for more detailed information about how the slope stability was analyzed).

Slopes of the existing levee will be stable under static conditions. Since the San Andreas Fault is very close to the subject levee, some surficial instability should be anticipated due to an earthquake in the San Andreas Fault system. This can be mitigated after such an event by performing remedial grading. Please note that if the channel lining is properly designed and constructed, slope stability issues during seismic events can be minimized.

Liquefaction and Seismic-Induced Settlement

Liquefaction potential is greatest where the groundwater level is shallow, and submerged loose, fine sands occur within a depth of about 50 feet or less. Liquefaction potential decreases as grain size and clay and gravel content increase. As ground acceleration and shaking duration increase during an earthquake, liquefaction potential increases.

Due to the existence of shallow groundwater and loose subsurface materials in the foundation of the levee, the potential for liquefaction of the levee foundation is considered high. Therefore, liquefaction-induced settlement is expected to occur along the entire alignment within project limits. Also, seismic-induced dry settlement may occur as result of the densification of loose to medium dense granular soils during ground shaking. Dry and partially saturated soils are subject to seismic-induced settlement.

To evaluate the liquefaction-induced and seismic-induced dry settlement of the project site, we selected the peak ground acceleration (PGA) for the ground motion with a 10% probability of exceedance in 50 years. This ground motion, which is designated as the Design Basis Earthquake (DBE), corresponds to a Predominant Earthquake Magnitude of 7.

We used 2008 Interactive Deaggregations available at the USGS website (http://geohazards.usgs.gov/deaggint/2008/) to calculate the earthquake magnitude and PGA for an earthquake with a 10% Probability of Exceedance in 50 years (equal to about a 475-year return period). We used the shear wave velocity data obtained during seismic cone penetration tests (SCPTs) along the levee alignment to calculate the average Vs30 value for the site of the subject levee. An average Vs30 of 240 m/sec was used as an input to obtain the PGA at the subject levee site.

Based on the available information, the anticipated liquefaction-induced and seismic-induced total settlement is about 1 to 4 inches and differential settlement is about ½ inch over 100 feet. (See Appendix F for results of calculations).

Liquefaction of the underlying soils at the project site may induce lateral spreading of the levee slopes/channel banks (See Appendix G for results of lateral spread calculations). Lateral spreading may cause deformation of the levee slopes/channel banks along the channel alignment. Such ground deformation may impact the purpose of the channel. If CVWD wants to perform comprehensive mitigation measures before the construction of

the concrete lining, we can provide recommendations for mitigation measures. It will be very expensive to implement mitigation measures to prevent lateral spreading. Please note that impacts due to lateral spreading can be minimized with a concrete-lined trapezoidal channel provided that the proposed concrete lining is designed to accommodate the anticipated liquefaction-induced and seismic-induced total settlement of about 1 to 4 inches and differential settlement of about ½ inch over 100 feet.

Some grading/maintenance will be required to bring the levee crest and slopes back to their original elevation and grade after a significant earthquake. However, we recommend that CVWD develop a plan for allocating resources to perform immediate inspection of the levee system immediately after a significant earthquake event and to perform any needed repairs in a timely manner.

Tsunamis, Inundation and Flooding

The site is not in a coastal area. Therefore, tsunamis (seismic sea waves) are not considered to be a significant hazard at the site. The potential for other geologic hazards such as inundation and flooding exists at the project site, and therefore the existing levee may be impacted by flooding and associated scour.

Under existing conditions, potential erosion by wind waves overtopping at some locations in the levee is high. If the recommended remedial work can be implemented to provide adequate freeboard for the 100-year flood event and the SPF event, then wave run-up on overtopping erosion or reduction to freeboard due to overtopping are not considered to be significant hazards for the existing Levee.

Subsidence

The subject levee is not within an area of known subsidence associated with fluid (groundwater or petroleum) withdrawal, peat oxidation or hydroconsolidation.

5.6 CONCLUSIONS REGARDING GEOLOGIC HAZARDS

Based on the available geologic data, active or potentially active faults with the potential for surface fault rupture are not located beneath or projecting towards the site. In our opinion, the potential for surface rupture at the site due to fault plane displacement propagating to the ground surface during the design life of the project is considered to be very low.

Based on the available information, the anticipated liquefaction-induced and seismic-induced total settlement is about 1 to 4 inches and differential settlement is about ½ inch over 100 feet. Some grading/maintenance will be required to bring the levee crest and slopes back to their original elevation and grade after a significant earthquake. We recommend that CVWD develop a plan for allocating resources to perform immediate inspection of the levee system immediately after a significant earthquake event and to perform any needed repairs in a timely manner.

The potential for other geologic hazards such as inundation and flooding exists at the project site, and therefore the existing levee may be impacted by flooding and associated scour if no mitigation measures are implemented. Mitigation measures could include raising the levee crest at some locations (extents should be determined by NHC) as discussed in this report, and constructing a new concrete liner as discussed in this report. If the channel banks and levee slopes are going to be lined as part of the improvements instead of a fully lined trapezoidal channel, then the toe of the lining should extends well below the design scour elevation to prevent failure of the subject levee and to reduce the amount of erosion of the channel banks and levee embankment.

The potential for other geologic hazards such as tsunamis and subsidence affecting the site is considered to be low.

6.0 ENGINEERING ANALYSES

6.1 GENERAL

The vulnerability of the subject levee was evaluated based on available geotechnical information and our assumptions for water levels related to the 100-year and the Standard Project Flood (SPF) event (once the NHC report with water level information becomes available, then our draft report will be updated). The standards used for evaluating the levee were the FEMA certification criteria contained in 44 CFR Section 65.10, the Coachella Valley Water District (CVWD) guidelines, and U.S. Army Corps of Engineers (USACE) criteria which further explain the 44 CFR Section 65.10 requirements.

The criteria for meeting FEMA levee certification requirements are as follows:

- The levee must have adequate freeboard, which is three feet for the 100-year flood event;
- The embankment protection must demonstrate no appreciable erosion of levee embankment during the base 100-year flood;
- The embankment and its foundation must be stable and not have experienced detrimental seepage; and,
- The embankment must not be subject to appreciable settlement.

All the above items must be analyzed and shown to be adequate for the levee to be certified by FEMA. In addition the above criteria, CVWD guidelines require that the levee have four feet of freeboard during the 100-year flood event and one foot of freeboard during the Standard Project Flood (SPF) event.

6.2 SEEPAGE AND SLOPE STABILITY ANALYSES

6.2.1 GENERAL

The criteria for selecting cross-sections for engineering analyses are discussed in this section. We selected two (2) representative cross-sections upstream of Highway 111 to cover the entire levee based on the factors discussed below (Cross-section for the drop structure will be analyzed after we get the proposed configuration for the drop structure):

- The geometry of cross-section: The height and slope on the waterside and landside of the levee vary along the levee alignment. The maximum cross-sections were chosen at locations of concern on the levee;
- The strength of the levee embankment and foundation soils: On the basis of the results from our geotechnical investigation and laboratory testing, the cross-sections with lower strength parameters were selected;
- Permeability of the levee: To consider seepage and associated sand boiling potential at the landside slope toe, the cross-sections with higher permeability were selected;
- Boring locations: The borings were drilled at the levee crest and channel bottom, and the cross-sections close to these locations were selected to apply the parameters obtained from laboratory tests of these samples; and,
- All selected cross-sections should reasonably cover the entire levee, from a geotechnical engineering standpoint.

The locations of the selected cross-sections are shown on Figures 3-1 and 3-2, Cross-Section Locations for Engineering Analyses. Results of construction simulation and slope stability analyses are shown in Appendix C. Results of Seepage and Slope Stability Analyses for the 100-Year Flood Event and for the Standard Project Flood (SPF) Event under steady state and drawdown condition with the assumed scour depth (this assumed scour depth is based on the scour depth shown on the design drawings of the project just upstream of the subject project site) are shown in Appendices D and E, respectively.

Please note that water levels for the 100-Year and the SPF events were assumed to be at 10½ feet below the existing levee crest and three feet below the existing levee crest, respectively. These assumptions were based on the design drawings of the project upstream of the subject project site.

The following table summarizes the station numbering of selected cross-sections.

Cross-Section Number	Station Number
1	640 + 50
2	610 + 50

6.2.2 BASIS FOR SEEPAGE ANALYSIS

The steady state and transient seepage analyses were performed by GENTERRA on the selected cross-sections of the levee to determine the phreatic surface for use in the slope stability analyses.

The sections below present a summary of the results of the limited seepage analyses performed for the levee. Also included is a brief description of the methods used in the analysis.

6.2.3 METHODOLOGY FOR SEEPAGE ANALYSIS

The cross-sections that were used in the seepage and slope stability analyses are shown in Appendices C through E. The thickness of the alluvial foundation materials was taken as 50 feet under the Levee. The cross-section data was generated directly from topographic survey data provided by PB. The landside slope is approximately 2H:1V (Horizontal:Vertical) and the waterside slope varies between about 3H:1V to about 4H:1V. The proposed concrete protection for the slopes of the levee and bank varies between 1H:1V and 1.5H:1V. The side slope of the proposed trapezoidal liner is 1.5H:1V. The seepage analysis was performed using SEEP/W, which is a program in the GeoStudio 2007

Bundle, Version 7.23, to determine the phreatic surface within the levee embankment under steady state and transient conditions by defining the geometry of the cross-sections, material properties, and appropriate boundary conditions. This methodology is explained in the SEEP/W User's Manual.

Since the levee serves as a flood control facility and therefore holds water for only for a short period of time, the seepage through the levee embankment and foundation will be minimal.

The steady state seepage analyses were performed for Cross-Section 1 for the 100-year flood event at Elevation of -109.75 feet (NAVD 88) and for the Standard Project Flood (SPF) event at Elevations of -102.25 feet and for Cross-Section 2 for the 100-year flood event at Elevations of -120.5 feet and for the Standard Project Flood (SPF) event at Elevations -113.0 feet. The locations of Cross-Sections 1 and 2 are shown on Figure 3-1, Cross-Section Locations for Engineering Analyses.

In order to perform the slope stability analyses under rapid drawdown and scour conditions, transient seepage analyses were performed with the channel filled from the regular channel condition (i.e. regular flow in the incised channel) to the water levels at the 100-year flood Elevations and at the Standard Project Flood (SPF) Elevations for Cross-Sections 1 and 2 in 24 hours and remain at those levels for 8 hours and then discharge to the regular channel condition (i.e. minimal flow in the incised channel) in 8 hours.

6.2.4 SELECTION OF PERMEABILITY USED IN SEEPAGE ANALYSIS

Permeability values used as parameters for the seepage analysis are summarized in the table below. The permeability values were obtained from the semi-empirical correlation [Carrier's (2003) version of the Kozeny-Carman Equation and Chapuis (2004) Equation] using the gradation test results.

Considering the predominantly dense sandy nature of the levee embankment and foundation materials beneath the levee embankment, a ratio of horizontal to vertical coefficients of permeability was assumed to be a value of five. The ratios of horizontal to vertical coefficients of permeability for other materials were assumed based on our experience.

PERMEABILITY PARAMETERS					
Cross-Section	**Material**		**Vertical Permeability**		k_h/k_v [1]
			(cm/sec)	**(ft/sec)**	
1	Embankment		2.82×10^{-03} [2]	9.25×10^{-05}	5
	Foundation	Soil Layer 1	6.19×10^{-03} [2]	2.03×10^{-04}	5
		Soil Layer 2	9.40×10^{-03} [2]	3.08×10^{-04}	5
		Soil Layer 3	1.00×10^{-06} [1]	3.28×10^{-08}	1
		Soil Layer 4	1.07×10^{-02} [2]	3.51×10^{-04}	5
		Soil Layer 5	1.00×10^{-06} [1]	3.28×10^{-08}	1
		Soil Layer 6	6.19×10^{-03} [2]	2.03×10^{-04}	5
	Compacted Fill		2.82×10^{-03} [1]	9.24×10^{-05}	5
	Reinforced Concrete		1.00×10^{-10} [1]	3.30×10^{-12}	1
2	Embankment		2.82×10^{-03} [2]	9.24×10^{-05}	5
	Foundation	Soil Layer 1	6.19×10^{-03} [2]	2.03×10^{-04}	5
		Soil Layer 2	1.07×10^{-02} [2]	3.52×10^{-04}	5
		Soil Layer 3	1.07×10^{-02} [2]	3.52×10^{-04}	5
		Soil Layer 4	6.19×10^{-03} [2]	2.03×10^{-04}	5
		Soil Layer 5	1.00×10^{-06} [1]	3.28×10^{-08}	5
		Soil Layer 6	6.19×10^{-03} [2]	2.03×10^{-04}	1
	Compacted Fill		2.82×10^{-03} [1]	9.24×10^{-05}	5
	Reinforced Concrete		1.00×10^{-10} [1]	3.30×10^{-12}	1

Notes: [1] Assumed values; [2] Values were obtained from semi-empirical correlation between soil gradation and permeability

6.2.5 RESULTS OF SEEPAGE ANALYSIS

The results of the seepage analysis for total head contour are presented on Appendices D and E.

6.2.6 BASIS FOR STABILITY ANALYSES

GENTERRA performed stability analyses using soil parameters obtained in this geotechnical investigation and the configurations of the selected cross-sections of the levee generated from topographic survey data for the engineering analysis.

This section of the report summarizes and discusses the results of GENTERRA's slope stability analyses performed for the levee. Also included is a brief description of the methods used in the analysis.

6.2.7 METHODOLOGY FOR SLOPE STABILITY ANALYSES

The conventional method of limit equilibrium stability analysis using the circular arc type with optimized failure surfaces formed the basis of the stability analyses. All potential failure surfaces were analyzed using the Morgenstern-Price method incorporated into the computer program SLOPE/W, which is one of the programs in the GeoStudio 2007 Bundle, Version 7.23. The slope stability analyses were performed to identify the most critical surfaces with the lowest factor of safety by defining the geometry of the cross-sections, material properties, and appropriate limits of grid range for generating a potential failure surface. This methodology is explained in the SLOPE/W User's Manual.

To simulate the construction sequence for slope protection, the computer program SIGMA/W, which is also one of the programs in the GeoStudio 2007 Bundle, Version 7.23, was used to calculate the stress distribution at an in-situ condition and at construction stages such as trench excavation, cutting of slope (excavation of slope), placement of reinforced concrete, and backfilling. The stress representing the end of each stage of the construction was incorporated into SLOPE/W for slope stability analysis.

The stability analyses were performed on the landside and waterside slopes under the following three conditions: (1) under a static loading condition with the channel water levels at the 100-year flood elevation and at the Standard Project Flood (SPF) elevation as indicated in Subsection 6.2.3, (2) under the static and pseudostatic conditions when the channel is at regular channel condition, and (3) under rapid drawdown conditions after the 100-year flood elevation and after the Standard Project Flood (SPF) elevation. We also performed additional rapid drawdown analyses with a scour condition.

The seismic loading condition was approximated by a pseudostatic analysis and was performed for the landside and waterside slopes when the channel is empty. It is highly unlikely that a seismic event would coincide when the channel is holding water or during the rapid drawdown condition.

GENTERRA selected a horizontal earthquake acceleration of 0.15g for the pseudostatic analysis; this is the minimum horizontal acceleration value used in southern California for analyzing slopes under seismic conditions.

The slope stability analysis under the post-earthquake condition was also performed on both cross-sections of the levee because liquefiable layers were found in the foundation of the levee embankment.

In order to evaluate the stability of the levee and the channel bank after a scour event, the slope stability analyses were performed on both cross-sections. The configurations of the cross-sections of the levee after a scour event were developed as models for the slope stability analyses.

Regarding slope stability of the waterside slope under a rapid drawdown condition, it was assumed that the channel will draw down from the 100-year flood event and the Standard Project Flood event to an empty Levee in 8 hours after maintaining high flood water levels for 8 hours. These events were simulated using transient seepage analyses.

6.2.8 SELECTION OF SHEAR STRENGTH PARAMETERS

GENTERRA selected strength parameters for slope stability analysis from laboratory test results obtained during our geotechnical investigation, and the selected parameters for stress and deformation analysis are based on a semi-empirical correlation. The parameters selected for the analyses are summarized in the table below:

PARAMETERS FOR STRESS AND SLOPE STABILITY ANALYSES							
Cross-Section	**Material**		**Cohesion (psf)**	**Friction Angle (degrees)**	**Young's Modulus (ksf)**	**Poisson's Ratio[(1)]**	**Unit Weight (pcf)**
1	Embankment		10.0	28.5	124	0.40	106.8
	Foundation	Soil Layer 1	21.0	30.2	225	0.35	123.8
		Soil Layer 2	50.0 (105.0)[(2)]	31.0	318	0.35	134.7
		Soil Layer 3	1125	5.0	180	0.49	127.5
		Soil Layer 4	13.5 (550)[(2)]	31.1	348	0.30	128.7
		Soil Layer 5	1500.0	5.0	180	0.45	134.6
		Soil Layer 6	60.0	22.5	558	0.25	123.0
	Compacted Fill		200.0	34.0	700	0.30	135.0
	Reinforced Concrete		15700[(1)]	40.0[(1)]	485000[(1)]	0.20	150.0[(1)]
2	Embankment		21.0	30.2	120	0.40	109.1
	Foundation	Soil Layer 1	39.0	31.8	252	0.35	117.6
		Soil Layer 2	50.0 (150)[(2)]	26.0	297	0.35	121.7
		Soil Layer 3	39.0	31.8	702	0.30	134.0
		Soil Layer 4	13.5 (630)[(2)]	31.1	648	0.30	126.1
		Soil Layer 5	1125.0	5.0	150	0.49	153.3
		Soil Layer 6	50.0	32.0	800	0.25	143.7
	Compacted Fill		200.0	34.0	700	0.30	135.0
	Reinforced Concrete		15700.0[(1)]	40.0[(1)]	485000[(1)]	0.20	150.0[(1)]

Notes: [(1)] Assumed values; [(2)] Residual strength values were obtained from semi-empirical correlation between SPT blow counts and soil properties

6.2.9 RESULTS OF SLOPE STABILITY ANALYSES

The results of the construction simulation and stability analyses are presented in the tables on the next few pages and in Appendices C through E. Based on these engineering analyses, if the channel can be lined with a minimum of 8-inch-thick reinforced concrete trapezoidal liner, then it can meet the minimum factor of safety requirements for static and seismic conditions. However, this 8-inch-thick liner may or may not be able to accommodate the anticipated loads from construction and/or maintenance vehicles, such as D-5 through D-8 Dozers, 800 series Excavators, Loaders, Backhoes, Barko Mulchers, Dump Trucks and Water Trucks. Therefore, the final design thickness of the proposed trapezoidal liner should be determined by the Project Structural Engineer using allowable bearing pressure and anticipated static and seismic settlement information provided in this report.

Please note that if the channel cannot be lined with a trapezoidal liner due to other constraints imposed on this project, then the excavation for the side lining only option has to be done with caution, including proper dewatering, because our engineering analyses indicate that the factor of safety during temporary excavation for liner construction does not meet the required factor of safety. Also, the side lining only option may have issues during a rapid drawdown condition after major flood events such as the 100-Year Flood Event or the Standard Project Flood Event. In order to achieve the required factor of safety, some remedial grading as discussed in this report will be required.

GENTERRA also performed a drawdown analysis with and without scour. It was assumed that the channel will take 8 hours to empty from the 100-year flood and the Standard Project Flood channel levels. The models and results for events with and without scour are shown on Appendices D and E.

Summary of Results from Engineering Analyses

(During and after construction)

Cross-Section Number	Station Number	Description of Condition Analyzed	Computed Factor of Safety	Required Factor of Safety
1	640+50	Trench Excavation and Slope Cutting - Static Condition (Side Liner, Regular Channel Condition)	1.08	≥1.1
		Placement of Reinforce Concrete and Backfill-Static Condition (Side Liner, Regular Channel Condition)	1.77	≥1.1
		End of Construction – Static Condition (Side Liner, Regular Channel Condition)	2.66	≥1.4
		Excavation and Slope Cutting - Static Condition (Trapezoidal Liner, Regular Channel Condition)	1.27	≥1.1
		End of Construction – Static Condition (Trapezoidal Liner, Regular Channel Condition)	1.88	≥1.4
2	610+50	Trench Excavation and Slope Cutting - Static Condition (Side Liner, Regular Channel Condition)	1.12	≥1.1
		Placement of Reinforce Concrete and Backfill-Static Condition (Side Liner, Regular Channel Condition)	1.62	≥1.1
		End of Construction – Static Condition (Side Liner, Regular Channel Condition)	1.67	≥1.4
		Excavation and Slope Cutting - Static Condition (Trapezoidal Liner, Regular Channel Condition)	1.22	≥1.1
		End of Construction – Static Condition (Trapezoidal Liner, Regular Channel Condition)	1.86	≥1.4

Summary of Results from Engineering Analyses

(Drawdown, 100-Year Flood Event, Side Liner)

Cross-Section Number	Station Number	Description of Condition Analyzed	Computed Factor of Safety	Required Factor of Safety
1	640+50	Static Condition – Downstream Slope (100-year Flood, Pool Elev. =-109.75 feet)	1.67	≥1.4
		Static Condition – Upstream Slope (100-year Flood, Pool Elev. =-109.75 feet)	2.00	≥1.4
		Drawdown Condition (T = 4 hours) (100-year Flood, Pool Elev. = -109.75 feet)	1.68	≥1.1
		Drawdown Condition (T = 8 hours) (100-year Flood, Pool Elev. = -109.75 feet)	1.54	≥1.1
		Drawdown Condition, after Scour (T = 4 hours,) (100-year Flood, Pool Elev. = -109.75 feet)	1.03	≥1.1
		Drawdown Condition, after Scour (T = 8 hours) (100-year Flood, Pool Elev. = -109.75 feet)	1.00	≥1.1
		Static Condition – Downstream Slope (Regular Channel Condition)	1.68	≥1.4
		Static Condition – Upstream Slope (Regular Channel Condition)	1.82	≥1.4
		Pseudostatic Condition – Downstream Slope (Regular Channel Condition)	1.25	≥1.1
		Pseudostatic Condition – Upstream Slope (Regular Channel Condition)	1.41	≥1.1
		Post-Earthquake Condition – Downstream Slope (Regular Channel Condition)	1.68	≥1.1
		Post-Earthquake Condition – Upstream Slope (Regular Channel Condition)	1.30	≥1.1

Summary of Results from Engineering Analyses

(Drawdown, 100-Year Flood Event, Side Liner)

Cross-Section Number	Station Number	Description of Condition Analyzed	Computed Factor of Safety	Required Factor of Safety
2	610+50	Static Condition – Downstream Slope (100-year Flood, Pool Elev. =-109.75 feet)	2.13	≥1.4
		Static Condition – Upstream Slope (100-year Flood, Pool Elev. =-109.75 feet)	2.57	≥1.4
		Drawdown Condition (T = 4 hours) (100-year Flood, Pool Elev. = -109.75 feet)	2.43	≥1.1
		Drawdown Condition (T = 8 hours) (100-year Flood, Pool Elev. = -109.75 feet)	1.37	≥1.1
		Drawdown Condition, after Scour (T = 4 hours,) (100-year Flood, Pool Elev. = -109.75 feet)	1.72	≥1.1
		Drawdown Condition, after Scour (T = 8 hours) (100-year Flood, Pool Elev. = -109.75 feet)	1.30	≥1.1
		Static Condition – Downstream Slope (Regular Channel Condition)	2.19	≥1.4
		Static Condition – Upstream Slope (Regular Channel Condition)	1.95	≥1.4
		Pseudostatic Condition – Downstream Slope (Regular Channel Condition)	1.50	≥1.1
		Pseudostatic Condition – Upstream Slope (Regular Channel Condition)	1.37	≥1.1
		Post-Earthquake Condition – Downstream Slope (Regular Channel Condition)	2.18	≥1.1
		Post-Earthquake Condition – Upstream Slope (Regular Channel Condition)	1.72	≥1.1

Summary of Results from Engineering Analyses

(Drawdown, 100-Year Flood Event, Trapezoidal Liner)

Cross-Section Number	Station Number	Description of Condition Analyzed	Computed Factor of Safety	Required Factor of Safety
1	640+50	Static Condition – Downstream Slope (100-year Flood, Pool Elev. =-120.5 feet)	1.68	≥1.4
		Static Condition – Upstream Slope (100-year Flood, Pool Elev. =-120.5 feet)	2.16	≥1.4
		Drawdown Condition (T = 4 hours) (100-year Flood, Pool Elev. = -120.5 feet)	1.90	≥1.1
		Drawdown Condition (T = 8 hours) (100-year Flood, Pool Elev. = -120.5 feet)	1.66	≥1.1
		Static Condition – Downstream Slope (Regular Channel Condition)	1.68	≥1.4
		Static Condition – Upstream Slope (Regular Channel Condition)	1.98	≥1.4
		Pseudostatic Condition – Downstream Slope (Regular Channel Condition)	1.25	≥1.1
		Pseudostatic Condition – Upstream Slope (Regular Channel Condition)	1.50	≥1.1
		Post-Earthquake Condition – Downstream Slope (Regular Channel Condition)	1.68	≥1.1
		Post-Earthquake Condition – Upstream Slope (Regular Channel Condition)	1.57	≥1.1

Summary of Results from Engineering Analyses

(Drawdown, 100-Year Flood Event, Trapezoidal Liner)

Cross-Section Number	Station Number	Description of Condition Analyzed	Computed Factor of Safety	Required Factor of Safety
2	610+50	Static Condition – Downstream Slope (100-year Flood, Pool Elev. =-120.5 feet)	2.13	≥1.4
		Static Condition – Upstream Slope (100-year Flood, Pool Elev. =-120.5 feet)	2.10	≥1.4
		Drawdown Condition (T = 4 hours) (100-year Flood, Pool Elev. = -120.5 feet)	1.65	≥1.1
		Drawdown Condition (T = 8 hours) (100-year Flood, Pool Elev. = -120.5 feet)	1.60	≥1.1
		Static Condition – Downstream Slope (Regular Channel Condition)	2.20	≥1.4
		Static Condition – Upstream Slope (Regular Channel Condition)	1.83	≥1.4
		Pseudostatic Condition – Downstream Slope (Regular Channel Condition)	1.55	≥1.1
		Pseudostatic Condition – Upstream Slope (Regular Channel Condition)	1.42	≥1.1
		Post-Earthquake Condition – Downstream Slope (Regular Channel Condition)	2.18	≥1.1
		Post-Earthquake Condition – Upstream Slope (Regular Channel Condition)	1.20	≥1.1

Summary of Results from Engineering Analyses

(Standard Project Flood Event, Side Liner)

Cross-Section Number	Station Number	Description of Condition Analyzed	Computed Factor of Safety	Required Factor of Safety
1	640+50	Static Condition – Downstream Slope (Standard Project Flood Event, Pool Elev. =-102.5 feet)	1.47	≥1.4
		Static Condition – Upstream Slope (Standard Project Flood Event, Pool Elev. =-102.5 feet)	2.68	≥1.4
		Drawdown Condition (T = 4 hours) (100-year Flood, Pool Elev. = -109.75 feet)	1.76	≥1.1
		Drawdown Condition (T = 8 hours) (Standard Project Flood Event, Pool Elev. =-102.5 feet)	1.53	≥1.1
		Static Condition – Downstream Slope (Regular Channel Condition)	1.68	≥1.4
		Static Condition – Upstream Slope (Regular Channel Condition)	1.82	≥1.4
		Pseudostatic Condition – Downstream Slope (Regular Channel Condition)	1.25	≥1.1
		Pseudostatic Condition – Upstream Slope (Regular Channel Condition)	1.41	≥1.1
		Post-Earthquake Condition – Downstream Slope (Regular Channel Condition)	1.68	≥1.1
		Post-Earthquake Condition – Upstream Slope (Regular Channel Condition)	1.30	≥1.1

Summary of Results from Engineering Analyses

(Standard Project Flood Event, Side Liner)

Cross-Section Number	Station Number	Description of Condition Analyzed	Computed Factor of Safety	Required Factor of Safety
2	610+50	Static Condition – Downstream Slope (Standard Project Flood Event, Pool Elev. =-113.0 feet)	1.61	≥1.4
		Static Condition – Upstream Slope (Standard Project Flood Event, Pool Elev. =-113.0 feet)	2.65	≥1.4
		Drawdown Condition (T = 4 hours) (Standard Project Flood Event, Pool Elev. =-113.0 feet)	1.61	≥1.1
		Drawdown Condition (T = 8 hours) (Standard Project Flood Event, Pool Elev. =-113.0 feet)	1.31	≥1.1
		Static Condition – Downstream Slope (Regular Channel Condition)	2.19	≥1.4
		Static Condition – Upstream Slope (Regular Channel Condition)	1.95	≥1.4
		Pseudostatic Condition – Downstream Slope (Regular Channel Condition)	1.50	≥1.1
		Pseudostatic Condition – Upstream Slope (Regular Channel Condition)	1.37	≥1.1
		Post-Earthquake Condition – Downstream Slope (Regular Channel Condition)	2.18	≥1.1
		Post-Earthquake Condition – Upstream Slope (Regular Channel Condition)	1.72	≥1.1

Summary of Results from Engineering Analyses

(Standard Project Flood Event, Trapezoidal Liner)

Cross-Section Number	Station Number	Description of Condition Analyzed	Computed Factor of Safety	Required Factor of Safety
1	640+50	Static Condition – Downstream Slope (Standard Project Flood Event, Pool Elev. =-102.5 feet)	1.50	≥1.4
		Static Condition – Upstream Slope (Standard Project Flood Event, Pool Elev. =-102.5 feet)	3.03	≥1.4
		Drawdown Condition (T = 4 hours) (Standard Project Flood Event, Pool Elev. =-102.5 feet)	2.01	≥1.1
		Drawdown Condition (T = 8 hours) (Standard Project Flood Event, Pool Elev. =-102.5 feet)	1.62	≥1.1
		Static Condition – Downstream Slope (Regular Channel Condition)	1.68	≥1.4
		Static Condition – Upstream Slope (Regular Channel Condition)	1.98	≥1.4
		Pseudostatic Condition – Downstream Slope (Regular Channel Condition)	1.25	≥1.1
		Pseudostatic Condition – Upstream Slope (Regular Channel Condition)	1.50	≥1.1
		Post-Earthquake Condition – Downstream Slope (Regular Channel Condition)	1.68	≥1.1
		Post-Earthquake Condition – Upstream Slope (Regular Channel Condition)	1.57	≥1.1

Summary of Results from Engineering Analyses
(Standard Project Flood Event, Trapezoidal Liner)

Cross-Section Number	Station Number	Description of Condition Analyzed	Computed Factor of Safety	Required Factor of Safety
2	610+50	Static Condition – Downstream Slope (Standard Project Flood Event, Pool Elev. =-113.0 feet)	1.62	≥1.4
		Static Condition – Upstream Slope (Standard Project Flood Event, Pool Elev. =-113.0 feet)	2.85	≥1.4
		Drawdown Condition (T = 4 hours) (Standard Project Flood Event, Pool Elev. =-113.0 feet)	1.66	≥1.1
		Drawdown Condition (T = 8 hours) (Standard Project Flood Event, Pool Elev. =-113.0 feet)	1.56	≥1.1
		Static Condition – Downstream Slope (Regular Channel Condition)	2.20	≥1.4
		Static Condition – Upstream Slope (Regular Channel Condition)	1.83	≥1.4
		Pseudostatic Condition – Downstream Slope (Regular Channel Condition)	1.55	≥1.1
		Pseudostatic Condition – Upstream Slope (Regular Channel Condition)	1.42	≥1.1
		Post-Earthquake Condition – Downstream Slope (Regular Channel Condition)	2.18	≥1.1
		Post-Earthquake Condition – Upstream Slope (Regular Channel Condition)	1.20	≥1.1

6.3 IMPROVEMENTS TO CVSC BANKS, LEVEES AND CHANNEL BOTTOM

Considering the subsurface soils conditions and groundwater conditions within project limits, it will be very expensive to improve the project site to develop a robust design for the proposed lining of the CVSC. Therefore, GENTERRA proposes a minimum level of

remedial work for this project to alleviate some of the consequences during a significant earthquake. Please note that, if necessary, GENTERRA can provide recommendations for a comprehensive ground improvement program that can completely alleviate potential issues related to earthquakes. Assuming limited remedial work as proposed in this report, some cracking to the proposed liner and some displacement of the banks may occur during a significant earthquake event due to seismic-induced differential settlement and lateral spreading. Since the occurrence of such a significant earthquake event will rarely coincide with a significant storm event, and rather than implementing comprehensive mitigation measures, it may be economical instead to plan on making necessary urgent repairs immediately after a significant earthquake event that caused some cracking in the liner and some displacement to the banks. We recommend that CVWD develop a plan for making necessary urgent repairs and allocate resources to perform immediate inspection of the CVSC immediately after a significant earthquake event and to perform any needed repairs in a timely manner.

Based on the results of our inspection, some remedial work is necessary in the CVSC levee segment between Avenue 54 and the Thermal Drop Structure to meet the certification criteria. Required remedial work includes repair of channel/bank slopes, repair of levee embankment crest and slopes to make them uniform, and installation of concrete liners to prevent erosion of the bank and levee slopes. Remedial work will also be required to raise the levee in areas that have potential for overflow or breaching under the 100-year flood event. The amounts by which the levee needs to be raised (either by remedial grading or installation of flood walls) or the lowering of the invert of the channel bottom will be determined by NHC.

Based on the results of our investigation, some remedial grading work, as well as concrete lining to prevent erosion of the channel banks, will be necessary to meet the FEMA levee certification criteria for the CVSC segment under this investigation. As part of the required remedial grading for this project and as related to the concrete-lined trapezoidal channel, we recommend removing at least the upper 5 feet (in the vertical direction) of

existing soils in the bottom channel area and at least 8 feet (in the horizontal direction) of existing soils beneath the proposed side slopes lining in the channel slopes area. Please note that in some areas of the channel bottom, it will be necessary to remove up to about 15 feet of soil to reach the grade at which to construct the bottom slab of the concrete-lined trapezoidal channel. In areas where more than 5 feet of upper existing soils will be removed to reach the grade to construct the bottom slab of the trapezoidal channel, the remedial requirement to remove at least the upper 5 feet of existing soils will be automatically met.

To mitigate the potential for unacceptable differential settlement, and to provide uniform support for the concrete lining, we recommend placement of at least 2 feet of properly compacted fill soils underneath the bottom slab.

Since the CVSC does not have adequate protection to prevent erosion along the entire length within project limits, except the bridge areas that are armored to prevent erosion, GENTERRA recommends using reinforced concrete-lined trapezoidal channel which will perform much better than the option of only lining the banks. If a concrete-lined trapezoidal channel is not feasible due to other factors for this project then, as the minimum requirement, banks (side slopes) of the CVSC should be lined with reinforced concrete. The toe of this side liner should extend at least to the recommended scour depth to be determined for this project. Whatever the option chosen by CVWD for remedial work, we recommend that CVWD develop a plan for allocating resources to perform inspection of the CVSC system immediately after a significant earthquake event and to perform any needed repairs in a timely manner.

Also, some modifications to the existing grouted riprap liner may be required in bridge areas to accommodate the anticipated flow under a 100-year flood event.

Upon completion of the above remedial work as described above, the existing CVSC from Avenue 54 to the Thermal Structure can meet FEMA levee certification criteria. However,

further remedial work is necessary to meet CVWD requirements for freeboard under the Standard Project Flood event. It is necessary to either perform additional remedial work to raise the bank or to build flood walls to provide adequate freeboard under the Standard Project Flood event.

Settlement analyses indicate that any proposed improvements to the existing levee should not result in significant settlement. Since the upper subsurface materials are predominantly sandy, all settlement due to additional fill placement, if any, should occur immediately. We recommend at least 2 weeks of lag time between the completion of additional fill placement and the start of any structural concrete work related to construction of slope protection.

Since the on-site soils are predominantly sandy, and the moisture contents of the on-site soils are very low, the surface soils in any excavations are susceptible to caving.

Volumetric shrinkage should be anticipated of the material that is excavated or imported, and then placed as controlled compacted fill. We estimate that this shrinkage could vary from 15 to 20 percent. Subsidence of the surfaces that are scarified and compacted should be between 0.1 foot and 0.2 foot. This will vary depending upon the type of equipment used, the moisture content of the soil at the time of grading, and the actual degree of compaction attained. It should be noted that the shrinkage estimates are based upon the assumption that engineered fills will be compacted to an average of approximately 95 percent relative compaction. Shrinkage of loosely placed fill material including non-structural backfill placed subsequent to any slope protection installation is expected to be less than 5 percent. The values for shrinkage and subsidence are exclusive of losses that will occur because of the stripping of the organic material from the site, the removal of unsuitable materials, the removal of debris, and removal of other subsurface obstructions.

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 CONCLUSIONS

The FEMA levee certification criteria are based on the 100-year flood event. Based on available information, the subject CVSC does not have adequate freeboard at some locations to prevent overtopping during the 100-year flood event, and also does not have adequate protection to prevent erosion of the banks and levees. Therefore, the subject CVSC does not meet FEMA levee certification criteria. More specific information about the overtopping locations will be made by NHC.

Since the levee does not have adequate freeboard at some locations under the existing condition, there are four possible options to provide adequate freeboard, as described below:

Option 1: The first option is to lower the invert of the channel to the elevation to be determined by the Project Hydraulic Engineer. This option may need an extensive dewatering program during the construction, but this option may eliminate the need to raise the levee or the need to acquire lands to provide adequate room for the raised levee embankment. It is important to note that this option may undermine the capacity of existing bridge foundations, and may lead to extensive improvements to the bridge foundation or even may lead to the need for construction of new bridges;

Option 2: The second option is to build flood walls. This may be the easiest option for construction and will have minimal impact to adjacent properties during construction, but its aesthetic appearance as well as safety issues should be carefully considered before selecting this option;

Option 3: The third option is to perform remedial grading to add compacted fill soils to raise the levee crest in low areas that are identified (this can be accomplished provided that CVWD has enough space between the existing landside toe and the right-of-way); and,

Option 4: The fourth option is to do a combination of adding minor flood walls where the levee cannot be raised due to limitations and adding compacted fill soils to raise the levee crest where it is feasible to do so (this may be the most economical option, but its aesthetic appearance as well as safety issues should be carefully considered before selecting this option).

Based on the results of our geotechnical investigation and engineering analyses, it is our opinion that the proposed CVSC Improvement project is feasible from a geotechnical engineering standpoint. The following is a summary of the main geotechnical findings or factors that may affect the proposed project.

- The existing on-site soils appear to be suitable for reuse as fill during proposed grading provided they are relatively free of organic material and debris, but it may necessary to do some blending to meet the requirements of material for fill; the on-site soils, other than any expansive soils, free of any debris or organic matter, may be used in required fills. The on-site soils may need to be blended to obtain enough binder material with at least 12%, but not more than 35%, passing the No. 200 sieve... Cobbles larger than four inches in diameter should not be used in the fill. Any required import material should consist of relatively non-expansive soils with an Expansion Index of less than 20. The imported materials should contain sufficient fines (binder material with at least 12 percent passing the No. 200 sieve) so as to be relatively impermeable (but, the fines content cannot be more than 35 percent passing No. 200 sieve) and result in a stable subgrade when compacted. All proposed import materials should be approved by GENTERRA prior to being placed at the site

- The near surface soils are potentially compressible in their present state and may settle under the surcharge of fills or water loading or saturation. As such, these materials should be removed (over-excavated) and re-compacted within the footprint of the proposed concrete slope protection. As a minimum, we recommend removing at least the upper 5 feet (in the vertical direction) of existing soils in the bottom channel area and at least 8 feet (in the horizontal direction) of existing soils beneath the area of the proposed side slope lining on the channel slopes. Please note that in some areas of the channel bottom, it will be necessary to remove up to about 15 feet of soil to reach the grade at which to construct the bottom slab of the concrete-lined trapezoidal channel. In areas where more than 5 feet of upper existing soils will be removed to reach the grade to construct the bottom slab of the trapezoidal channel, the remedial requirement to remove at least the upper 5 feet of existing soils will be automatically met.
- Based on our subsurface exploration, it is our opinion that the on-site earth materials can be excavated with heavy-duty conventional grading equipment in good working condition.
- The on-site soils will present severe attack on concrete. Therefore, Type V cement can be used for any mitigation measures that involve the use of cement. The test results also indicate that the on-site soils are severely corrosive to ferrous metals. Any ferrous metals or metallic piping that may be needed to construct any project features should have proper protection to prevent corrosion.
- Based on groundwater information that we collected during our field investigation and review of groundwater information in and around the project limits, groundwater will have an impact on the construction of proposed improvements. Perched groundwater may develop in areas of soils with contrasting (significantly different) permeabilities, thereby possibly resulting in saturated soil conditions.
- Based on the available geologic data, active or potentially active faults with the potential for surface fault rupture are not located beneath or projecting towards the site. In our opinion, the potential for surface rupture at the site due to fault plane

displacement propagating to the ground surface during the design life of the project is considered to be very low.

- The project site could be subjected to strong ground shaking in the event of an earthquake. However, this hazard is common to California and the effects of ground shaking can be mitigated by performing urgent remedial grading after such event.
- Based on our evaluation, the potential for slope instability such as slip surface failure through the levee or translational sliding of the levee system or lateral spreading of the levee system at the project site is considered to be low to moderate. Slopes of the existing levee will be stable under static conditions. Since the San Andreas Fault is very close to the subject levee, some surficial instability should be anticipated due to an earthquake in the San Andreas Fault system. This can be mitigated after such an event by performing remedial grading. Please note that if the channel lining is properly designed and constructed, slope stability issues during seismic events can be minimized.
- Due to the existence of shallow groundwater and loose subsurface materials in the foundation of the levee, the potential for liquefaction of the levee foundation is considered high. Therefore, liquefaction-induced settlement is expected to occur along the entire alignment within project limits. Also, seismic-induced dry settlement may occur as result of the densification of loose to medium dense granular soils during ground shaking. Dry and partially saturated soils are subject to seismic-induced settlement. Based on the available information, the anticipated liquefaction-induced and seismic-induced total settlement is about 1 to 4 inches and differential settlement is about ½ inch over 100 feet.
- Liquefaction of the underlying soils at the project site may induce lateral spreading of the levee slopes/channel banks. Lateral spreading may cause deformation of the levee slopes/channel banks along the channel alignment. Such ground deformation may impact the carrying capacity of the channel. If CVWD wants to perform comprehensive mitigation measures before the construction of the concrete lining, we can provide recommendations for mitigation measures. It will be very

expensive to implement mitigation measures to prevent lateral spreading. Please note that impacts due to lateral spreading can be minimized with a concrete-lined trapezoidal channel provided that the proposed concrete lining is designed to accommodate the anticipated liquefaction-induced and seismic-induced total settlement of about 1 to 4 inches and differential settlement of about ½ inch over 100 feet.

- Some grading/maintenance will be required to bring the levee crest and slopes back to their original elevation and grade after a significant earthquake. However, we recommend that CVWD develop a plan for allocating resources to perform immediate inspection of the levee system immediately after a significant earthquake event and to perform any needed repairs in a timely manner.
- Cut/Fill slopes are anticipated to be up to about 40 feet in height and are expected to be grossly stable if proper groundwater dewatering is implemented during construction to keep the groundwater surface at least 5 feet below the exposed cut slopes. Some surficial instability and caving in the upper 15 feet should be anticipated due to the cohesionless nature of site on-soils and low moisture content. Surficial erosion should be anticipated where it is not protected. Since the on-site soils are predominantly sandy, and the moisture contents of the on-site soils are very low, the surface soils in any excavations are susceptible to caving.
- Unprotected slope faces will be susceptible to erosion. This risk can be reduced by planting the unprotected slopes as soon as possible after grading or by installing proper erosion control mats, and by maintaining proper erosion control measures.
- If remedial recommendations presented in this report are properly implemented to provide adequate protection to prevent overtopping and to prevent erosion of the CVSC banks and levees, then the existing levee can meet FEMA levee certification criteria.
- If additional remedial recommendations presented in this report are properly implemented to provide adequate protection to prevent overtopping under Standard Project Flood event, then the existing levee can meet CVWD criteria as well.

- If the recommendations presented in this report are properly implemented during the design and construction of the proposed CVSC Improvement Project, it will serve its intended purpose but some maintenance and/or repair may be required after a significant earthquake event.

7.2 RECOMMENDATIONS

7.2.1 GENERAL

Based on the results of our inspection, some remedial work is necessary to the CVSC levee segment between Avenue 54 and Thermal Drop Structure to meet the certification criteria. Required remedial work includes repair of channel/bank slopes, repair of levee embankment crest and slopes to make them uniform and installation of concrete liners to prevent erosion of the bank and levee slopes. Remedial work will also be required, to raise the levee or to lower the invert of the channel bottom, in areas that have potential for overflow or breaching under the 100-year flood event and Standard Project Flood event. The amounts by which the levee needs to be raised (either by remedial grading or installation of flood walls) or the lowering of the invert of the channel bottom will be determined by NHC.

Remedial grading is needed to remove at least the upper 5 feet (in the vertical direction) of existing soils in the bottom channel area and at least 8 feet (in the horizontal direction) of existing soils beneath the proposed side slopes lining in the channel slopes area. Please note that in some areas of the channel bottom, it will be necessary to remove up to about 15 feet of soil to reach the grade at which to construct the bottom slab of the concrete-lined trapezoidal channel. In areas where more than 5 feet of upper existing soils will be removed to reach the grade to construct the bottom slab of the trapezoidal channel, the remedial requirement to remove at least the upper 5 feet of existing soils will be automatically met. Similar remedial grading on the landside slopes may be beneficial, if funds are available, to remove loose soils and replace it with compacted fill soils and to reduce the maintenance cost.

To mitigate the potential for unacceptable differential settlement, and to provide uniform support for the concrete lining, we recommend placement of at least 2 feet of properly compacted fill soils underneath the bottom slab.

As a minimum, concrete lining to prevent erosion of the channel banks and levee slopes will be necessary to meet the FEMA levee certification criteria. If it is determined that concrete-lined trapezoidal channel is not feasible, then the toe of the side lining should extend to the design scour elevation to be determined for this project.

Weep holes are required to relieve pore pressure build-up underneath the proposed concrete slope protection. Weep holes should be a minimum of 3 inches in diameter and staggered at 10-foot maximum intervals as shown on CVWD standard detail for weep hole. Weep holes should be properly installed per design drawings and specifications to be created using CVWD current design standards for weep holes. Also, filter fabric that is needed to wrap the permeable gravel material should be properly designed by considering the properties of on-site materials. GENTERRA should be given the opportunity to review the design drawings and specifications associated with the weep holes. Also, installed weep holes should be regularly and properly maintained to serve their intended purpose during the life of the proposed concrete slope protection.

The portion of the concrete lining that will be located below the weep hole locations should be designed to resist uplift pressure as if water was present below the weep hole level. Please note that in areas where water turbulence is expected or determined to exist by the project hydraulics engineer, weep holes are not recommended. In those areas, the concrete lining should be designed to resist the hydrostatic pressure of water rising to the level of the adjacent existing grade behind the lining. This recommendation is also applicable to the proposed modifications to the Thermal Drop Structure where turbulences are expected.

The concrete lining should be waterproofed to prevent loss of subgrade materials through joints. Waterproofing can be achieved using different types of waterproofing techniques such as placing waterstops between joints. The Project Structural Engineer can determine what is most suitable for the design.

Upon completion of the above remedial work, the subject CVSC can meet FEMA levee certification criteria.

However, further remedial work is necessary to provide adequate freeboard of the existing levee at some locations to meet CVWD requirements for freeboard under the Standard Project Flood event. The amounts by which the levee needs to be raised (either by remedial grading or installation of flood walls) or the lowering of the invert of the channel bottom will be determined by NHC. It is our understanding that the channel bottom will be lined from approximately 1,000 feet upstream of Airport Boulevard to the Thermal Drop Structure, and all three existing bridges will be extended to the east to widen the channel or new bridges will be constructed as necessary.

Recommendations for modifications to the Thermal Drop Structure will be provided later once the conceptual details become available.

7.2.2 BEARING VALUE

The concrete liner may be designed to impose a net dead-plus-live load pressure of 2,500 pounds per square foot, provided that the recommended remedial grading is implemented to remove unsuitable materials.

A one-third increase in bearing value may be used for wind or seismic loads. The recommended bearing value given above is net value, and the weight of concrete in the liner can be assumed as 50 pounds per cubic foot; the weight of soil backfill can be neglected when determining the downward loads.

Footings for minor structures (minor retaining walls and free-standing walls) that are structurally separate from the concrete lining for the channel may be designed to impose a net dead-plus-live load pressure of 1,000 pounds per square foot at a depth of 1½ feet

below the lowest adjacent grade. Such footings may be established in undisturbed or properly compacted fill soils.

7.2.3 MODULUS OF SUBGRADE REACTION

For the concrete lining design, the upper bound value of the modulus of subgrade reaction may be taken as 100 pounds per cubic inches (pci), but this value should be reduced to 50 pci for checking the deflection at joints along the channel alignment.

7.2.4 SETTLEMENT

We estimate that the static settlement of the proposed concrete liner, supported in the desired finished subgrade in the manner recommended, will be about one inch. Differential settlement of the proposed concrete liner is expected to be about ½ inch or less over a distance of 100 feet along the channel alignment. However, this differential settlement will be slightly higher in the junction area where the slope side liner meets the bottom liner. In those areas, the differential settlement of the proposed concrete liner is expected to be about ¼ inch or less over a distance of 25 feet in the direction perpendicular to the channel alignment. The proposed concrete liner should also be designed to accommodate the anticipated seismic settlement discussed below.

The anticipated liquefaction-induced and seismic-induced total settlement is expected to be about 1 to 4 inches and differential settlement is expected to be about ½ inch over 100 feet.

7.2.5 LATERAL RESISTANCE

Lateral loads may be resisted by soil friction and by the passive resistance of the soils. A coefficient of friction of 0.4 may be used between the concrete liner slab and the supporting compacted fill soils. The passive resistance of properly compacted fill soils may be assumed to be equal to the pressure developed by a fluid with a density of 250 pounds per

cubic foot. The passive resistance of soils below the groundwater table or for the soils that will be placed above the liner may be assumed to be equal to the pressure developed by a fluid with a density of 125 pounds per cubic foot. A one-third increase in the passive value may be used for wind or seismic loads. The frictional resistance and the passive resistance of the soils may be combined without reduction in determining the total lateral resistance.

7.2.6 SITE-SPECIFIC SEISMIC COEFFICIENTS

Based on a review of the local soil and geologic conditions, the subject project site may be classified as Site Class D in accordance with Table 1613.5.2 in Section 1613 of 2013 California Building Code (CBC) and 2012 International Building Code (IBC).

The 2012 IBC seismic parameters were estimated using the Java application provided on the USGS website. This application takes site latitude, site longitude, and a site class as input parameters. The 2012 IBC seismic parameters were calculated to be as follows:

- S_S = 2.011g
- S_1 = 0.972g
- S_{MS} = 2.011g
- S_{M1} = 1.458g
- S_{DS} = 1.340g
- S_{D1} = 0.972g

7.2.7 GRADING

Remedial grading is necessary to improve to channel/bank slopes and levee's crest and slopes at some locations. Some remedial mitigation measures can also be implemented to unprotected slopes to prevent or reduce future erosion gullies and shallow surficial failures during heavy and extended periods of rain if funds are available, or it can be remedied as they occur as periodical maintenance issues.

Remedial grading is also needed to remove at least the upper 5 feet (in the vertical direction) of existing unsuitable soils in the bottom channel area and at least 8 feet (in the horizontal direction) of existing unsuitable soils beneath the proposed side slopes lining in the channel slopes area.

During remedial grading, the existing loose fill soils in the levee crest area and slopes may be excavated and replaced as properly compacted fill to improve the performance of the levee.

All required fill should be uniformly well compacted, and it should be observed and tested during placement. The existing fill soils, except expansive soils, are suitable for use as compacted fill.

Good drainage of surface water should be provided by providing adequate slopes to all graded surfaces. Proper drainage will be important to minimize infiltration of water beneath the paving and approach slabs.

The remainder of this section provides recommendations for the following grading items:

- Site preparation
- Excavations and temporary slopes
- Compaction
- Backfill
- Material for fill

7.2.8 Site Preparation

After the site is cleared and any existing loose fill soils are excavated as recommended, the exposed soils should carefully be observed for the removal of all unsuitable deposits such as disturbed soils, soft soils, and any debris. Next, the exposed soils should be scarified to a minimum depth of six inches, brought to within 2 percent below or 2 percent above the optimum moisture content for both sandy and clayey soils and compacted with heavy compaction equipment. At least the upper six inches of the exposed soils should be

compacted to at least 90 percent of the maximum dry density obtainable by ASTM Designation D1557. This compaction requirement may not be achievable if the exposed subgrade is too wet due to ponding of water. In this case, we recommend placing a layer of gravel material (typically 6-inch- to 12-inch-thick) to stabilize the exposed subgrade before placing fill materials.

7.2.9 Excavations and Temporary Slopes

Based on available information, excavations up to about 40 feet deep will be required to remove unsuitable materials and/or natural materials along the slope areas to be improved.

Where excavations deeper than about five feet are required, the sides of the excavations should be sloped back at a slope of 1½:1 (Horizontal:Vertical) or shored for safety. However, in order to construct the proposed concrete slope protection for side slopes only, a 1:1 slope will be required. Due to the sandy nature of onsite soils, the exposed 1:1 cut slope should be compacted and maintained in a moist condition to reduce surficial instability during construction.

In order to create a firm and stable 1:1 cut slope and to replace existing loose materials underneath the proposed concrete slope protection, we recommend at least eight feet of overexcavation underneath the proposed concrete slope protection. This overexcavated portion should be backfilled with compacted fill soils to about two feet beyond the limits of the bottom of the proposed concrete slope protection and then trimmed down to proposed grade needed for the placement of the concrete for the proposed concrete slope protection.

The actual depth of excavation should be based on recommendations and observations made during grading. Therefore, some variations in the depth and lateral extent of overexcavation recommended in this report should be anticipated.

Due to the presence of shallow groundwater within project limits, proper dewatering program should be implemented to keep the excavated slopes in stable condition.

The excavations should be observed by personnel of GENTERRA so that any necessary modifications based on variations in the soil conditions encountered may be made. All applicable safety requirements and regulations, including OSHA regulations, should be met.

Where sloped embankments are used, the tops of the slopes should be barricaded to prevent vehicles and storage loads within five feet of the tops of the slopes. A greater setback may be necessary when considering heavy vehicles, such as concrete trucks and cranes; we should be advised of such heavy vehicle loadings so that specific setback requirements may be established. If the temporary construction embankments are to be maintained during the rainy season, we suggest that berms are constructed along the tops of the slopes where necessary to prevent runoff water from entering the excavation and eroding the slope faces.

Heavy-duty earth moving and trenching equipment should be able to excavate the earth materials at the site.

For planning purposes of permanent cut slopes, cut slopes exceeding five feet in height should be constructed as replacement fill slopes due to the highly erosive nature of site soils.

The outer portion of fill slopes should be either overbuilt by two feet (minimum) and trimmed back to the finished slope configuration or compacted in vertical increments of five feet (maximum) by a weighted sheepsfoot roller as the fill is placed. The slope face should then be track-walked by dozers of appropriate weight to achieve the final slope configuration and compaction on the slope face. Slope faces are inherently subject to erosion, particularly if exposed to wind, rainfall and irrigation. Landscaping and slope

maintenance should be conducted as soon as possible in order to increase long-term surficial stability. Berms should be provided at the top of fill slopes. Drainage should be directed such that surface runoff on the slope face is minimized

7.2.10 Compaction

Any required fill should be placed in loose horizontal lifts not more than eight-inches-thick and compacted. The fill should be compacted to at least 95 percent for sandy soils and 90 percent for clayey soils of the maximum density obtainable per ASTM D1557. The moisture content of the on-site sandy soils and clayey soils at the time of compaction should vary no more than 2 percent below or 2 percent above optimum moisture content.

The volume change of excavated onsite materials upon compaction is expected to vary with materials, volume of roots and deleterious materials, density, in-situ moisture content, location, and compaction effort. The in-place and compacted densities of soil materials vary and accurate overall determination of shrinkage and bulking cannot be made. Therefore, we recommend site grading include, if possible, a balance area or ability to adjust import or export quantities to accommodate some variation. Based on our experience with materials that are similar to on-site materials, we anticipate 15 to 20 percent shrinkage in the upper five to ten feet of alluvial materials.

7.2.11 Backfill

All required backfill should be mechanically compacted in layers; flooding should not be permitted. Proper compaction of backfill will be necessary to minimize settlement of the backfill and to reduce settlement of overlying slabs and paving. Backfill should be compacted to at least 95 percent for sandy soils and 90 percent for clayey soils of the maximum dry density obtainable per ASTM D1557. The on-site soils, except expansive soils, may be used in compacted backfill.

Some settlement of the backfill should be expected, and any utilities supported therein should be designed to accept differential settlement.

7.2.12 Material for Fill

The on-site soils, other than any expansive soils, free of any debris or organic matter, may be used in required fills. Cobbles larger than four inches in diameter should not be used in the fill. Any required import material should consist of relatively non-expansive soils with an Expansion Index of less than 20. The imported materials should contain sufficient fines (binder material with at least 12 percent passing the No. 200 sieve, but cannot be more than 35 percent passing the No. 200 sieve) so as to be relatively impermeable and result in a stable subgrade when compacted. All proposed import materials should be approved by GENTERRA prior to placing at the site.

7.3 GEOTECHNICAL OBSERVATION AND TESTING

The reworking of the upper soils and the compaction of all required fill should be observed and tested during placement by a representative of GENTERRA. This representative should be authorized to perform at least the following duties:

- Observe the clearing and grubbing operations for proper removal of all unsuitable materials;
- Observe the exposed subgrade in areas to receive fill and in areas where excavation has resulted in the desired finished subgrade;
- Evaluate the suitability of on-site and import soils for fill placement; collect and submit soil samples for required or recommended laboratory testing where necessary;
- Observe the fill and backfill for uniformity during placement;
- Test backfill for field density and compaction to determine the percentage of compaction achieved during backfill placement; Observe the construction of flood walls (if needed) and concrete (side or trapezoidal) liner; and,
- Observe the modification of the Thermal Drop Structure.

The local, State and/or Federal review agencies having jurisdiction over the project should be notified prior to commencement of grading so that the necessary permits can be obtained and arrangements can be made for required inspection(s). The Contractor should be familiar with the inspection requirements of the reviewing agencies.

Earthwork should be performed in accordance with Project Specifications to be prepared by the project Civil/Geotechnical Engineers in accordance with CVWD guidelines for Project Specifications. This specification should include geotechnical recommendations given in this report. Appropriate measures should be taken to prevent damage to adjacent structures and utilities. Any design and construction of temporary sloping, sheeting, or shoring should be made the Contractor's responsibility. It should be noted that it is the responsibility of the Contractor to oversee the safety of the workers in the field during construction. The Contractor shall conform to all applicable occupational and health standards, rules, regulations, and orders established by the State of California. In addition, other State, County, or City regulations may supersede the recommendations presented in this section. If a trench shoring design and safety plan is required, GENTERRA should be given the opportunity to review the plan to confirm that recommendations presented by GENTERRA have been applied to the design.

8.0 LIMITATIONS AND BASIS FOR RECOMMENDATIONS

Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable geotechnical consultants practicing in this or similar localities. No other warranty, express or implied, is made as to the professional advice included in this report. This geotechnical investigation report has been prepared by GENTERRA Consultants, Inc. for PB and the CVWD and is to be used solely for the subject Coachella Valley Stormwater Channel Improvement Project from Avenue 54 to the Thermal Drop Structure in the Thermal area of the Coachella Valley in Riverside County, California, and may not contain sufficient information for use by other parties.

The recommendations provided in this geotechnical investigation report are based upon our understanding of the described project information and our interpretation of available published information and field and laboratory investigations done by GENTERRA. We have made our recommendations based upon experience with similar subsurface conditions under similar loading conditions. The recommendations apply to the specific project discussed in this report; therefore, any change in the configuration of the subject Channel/Levee between Avenue 54 and the Thermal Drop Structure or the site grades should be provided to us so that we can review our conclusions and recommendations and make any necessary modifications.

The recommendations provided in this report are based upon the assumption that the necessary geotechnical observations and testing during construction of remedial measures will be performed by our firm. The field observation services are considered a continuation of the geotechnical investigation and essential to verify that the actual soil conditions are as expected. This also provides for the procedure whereby the CVWD may be advised of unexpected or changed conditions that would require modifications of our original recommendations. In addition, the presence of our firm at the site provides the CVWD with an independent professional opinion regarding the geotechnical construction

procedures. If another firm is retained for the geotechnical observation services, our professional responsibility and liability would be limited to the extent that we would not be the geotechnical engineer of record.

9.0 REFERENCES

1. California Geological Survey (CGS), 2002; *California Geomorphic Provinces*, Note 36.
2. California Geological Survey (CGSa), 2010; *Fault Activity Map of California*, Geologic Data Map No. 6, map scale 1:750,000, Charles W. Jennings and William A. Bryant.
3. California Geological Survey (CGSb), 2010; *Geologic Map of California*, Geologic Data Map No. 2, map scale 1:750,000, Charles W. Jennings, Carlos Gutierrez, William A. Bryant, George Saucedo, and Chris Wills.
4. California Geological Survey (CGS), Undated; *Alquist-Priolo Earthquake Fault Zone Maps*, website, http://www.quake.ca.gov/gmaps/WH/regulatorymaps.htm, accessed 11/02/2015.
5. EQSEARCH (Blake, 1989-2000) for Windows, Version 3.00b, with earthquake events up to 2015.
6. United States Geological Survey (USGS), 2008, *Documentation for the 2008 Update of the United States National Seismic Hazard Maps*, Open File Report 2008-1128.
7. United States Geological Survey (USGS), 2008, *The 2008 Update of the United States National Seismic Hazard Maps-Fault Parameters*, website http://geohazards.usgs.gov/cfusion/hazfaults_search/hf_search_main.cfm.
8. EQSEARCH (Blake, 1989-2000) for Windows, Version 3.00b, with earthquake events up to 2015.

FIGURES



NOT TO SCALE

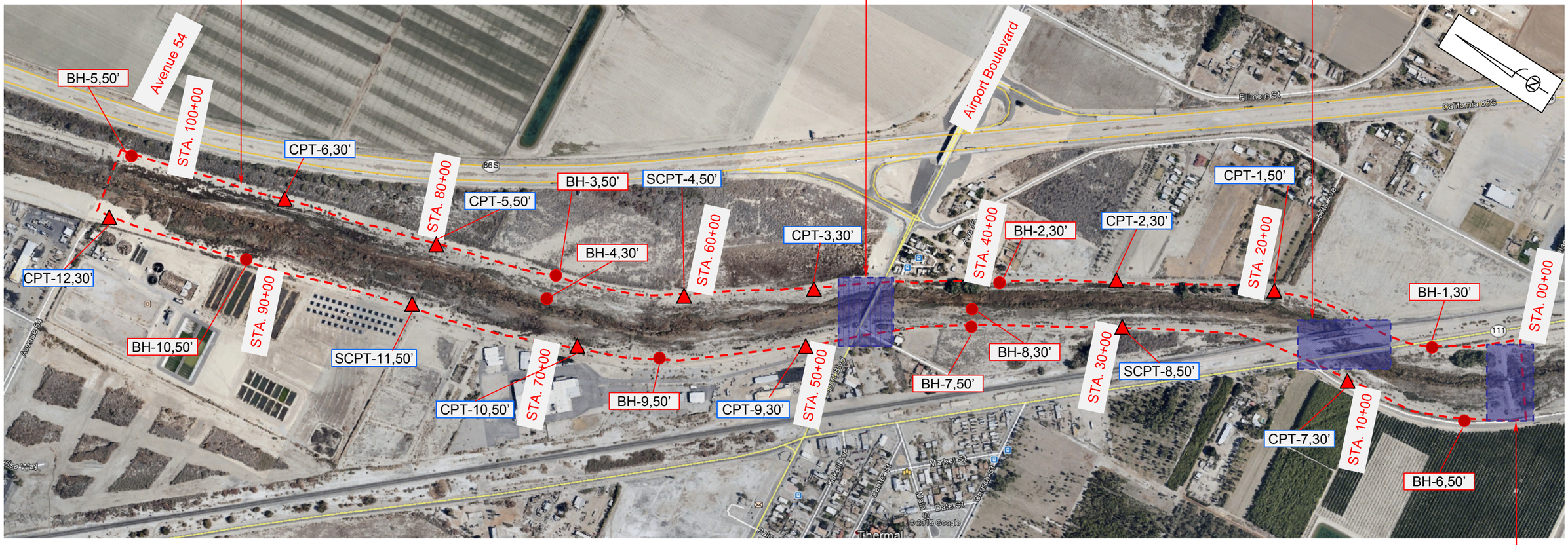
REFERENCE:
Google Earth 2016 Website

DESIGNED BY: SL DRAWN BY: SL DATE DRAWN: MARCH 2016 CHECKED BY: SB	COACHELLA VALLEY WATER DISTRICT	COACHELLA VALLEY STORMWATER CHANNEL IMPROVEMENT PROJECT RIVERSIDE COUNTY, CA	GENTERRA CONSULTANTS, INC. ENGINEERING & GEOTECHNICAL SERVICES	PROJECT NO. 393-PB-CVSC	DATE March 15, 2016	FIGURE 1 VICINITY MAP

Approximate Project Limits

Airport Boulevard Bridge

HWY 111 & UPRR Bridges





NOT TO SCALE

Thermal Drop Structure

LEGEND:

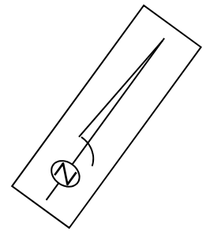
- BH-10,50' — APPROXIMATE HOLLOW STEM AUGER BORING LOCATION, NUMBER AND DEPTH
- CPT-12,30' — APPROXIMATE CONE PENETRATION TEST LOCATION, NUMBER AND DEPTH
- SCPT-11,50' — APPROXIMATE SEISMIC CONE PENETRATION TEST LOCATION, NUMBER AND DEPTH

REFERENCE:

2016 Google Map website

DESIGNED BY: SL DRAWN BY: SL DATE DRAWN: MARCH 2016 CHECKED BY: SB	COACHELLA VALLEY WATER DISTRICT	COACHELLA VALLEY STORMWATER CHANNEL IMPROVEMENT PROJECT RIVERSIDE COUNTY, CA	GENTERRA CONSULTANTS, INC. ENGINEERING & GEOTECHNICAL SERVICES	PROJECT NO. 393-PB-CVSC	DATE March 15, 2015	FIGURE 2-1 SITE INVESTIGATION PLAN – CVSC PROJECT LIMITS





REFERENCE:

2015 Google Map website



NOT TO SCALE

LEGEND:

- BH-12,50' — APPROXIMATE HOLLOW STEM AUGER BORING LOCATION, NUMBER AND DEPTH
- CPT-13, 50' — APPROXIMATE CONE PENETRATION TEST LOCATION, NUMBER AND DEPTH
- SCPT-14, 50' — APPROXIMATE CONE PENETRATION TEST LOCATION, NUMBER AND DEPTH

DESIGNED BY: SL DRAWN BY: SL DATE DRAWN: MARCH 2016 CHECKED BY: SB	COACHELLA VALLEY WATER DISTRICT	COACHELLA VALLEY STORMWATER CHANNEL IMPROVEMENT PROJECT RIVERSIDE COUNTY, CA	GENTERRA CONSULTANTS, INC. ENGINEERING & GEOTECHNICAL SERVICES	PROJECT NO. 393-PB-CVSC	DATE March 15, 2016	FIGURE 2-2 SITE INVESTIGATION PLAN – THERMO DROP STRUCTURE



CROSS-SECTION 1 (STA 640 + 50)



CROSS-SECTION 2 (STA 610 + 50)

CROSS-SECTION 1

CROSS-SECTION 2



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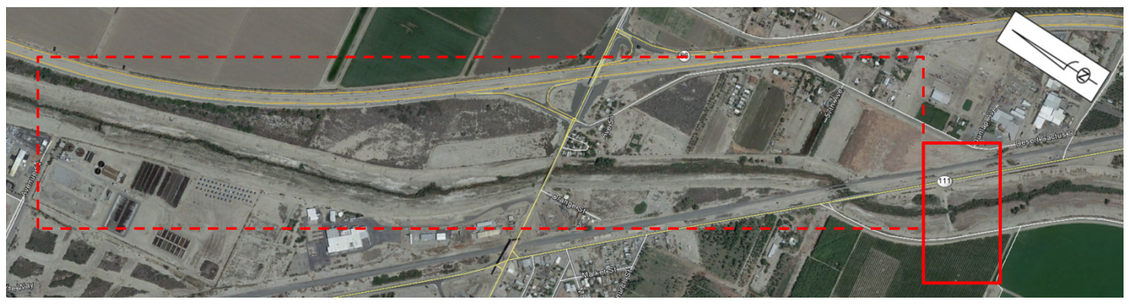
Approximate Cross-Section Locations

REFERENCE:

2016 Google Map website

DESIGNED BY: SL DRAWN BY: SL DATE DRAWN: MARCH 2016 CHECKED BY: SB	COACHELLA VALLEY WATER DISTRICT	COACHELLA VALLEY STORMWATER CHANNEL IMPROVEMENT PROJECT RIVERSIDE COUNTY, CA	GENTERRA CONSULTANTS, INC. ENGINEERING & GEOTECHNICAL SERVICES	PROJECT NO.	DATE	FIGURE 3-1
				393-PB-CVSC	March 15, 2016	CROSS-SECTION LOCATIONS FOR ENGINEERING ANALYSES





REFERENCE:

2016 Google Map website

NOT TO SCALE

LEGEND:

Approximate Cross-Section Locations

DESIGNED BY: SL DRAWN BY: SL DATE DRAWN: MARCH 2016 CHECKED BY: SB	COACHELLA VALLEY WATER DISTRICT	COACHELLA VALLEY STORMWATER CHANNEL IMPROVEMENT PROJECT RIVERSIDE COUNTY, CA	GENTERRA CONSULTANTS, INC. ENGINEERING & GEOTECHNICAL SERVICES	PROJECT NO. 393-PB-CVSC	DATE March 15, 2016	FIGURE 3-2 CROSS-SECTION LOCATIONS FOR ENGINEERING ANALYSES



EXPLANATION

Fault displacement during historic time (last 200 years).

Fault displacement during Holocene time (past 11,700 years).

Fault displacement during Late Quaternary time (past 700,000 years).

Fault displacement during Quaternary time (past 1,600,000 years; possible exceptions are faults which displace rocks of undifferentiated Plio-Pleistocene age).

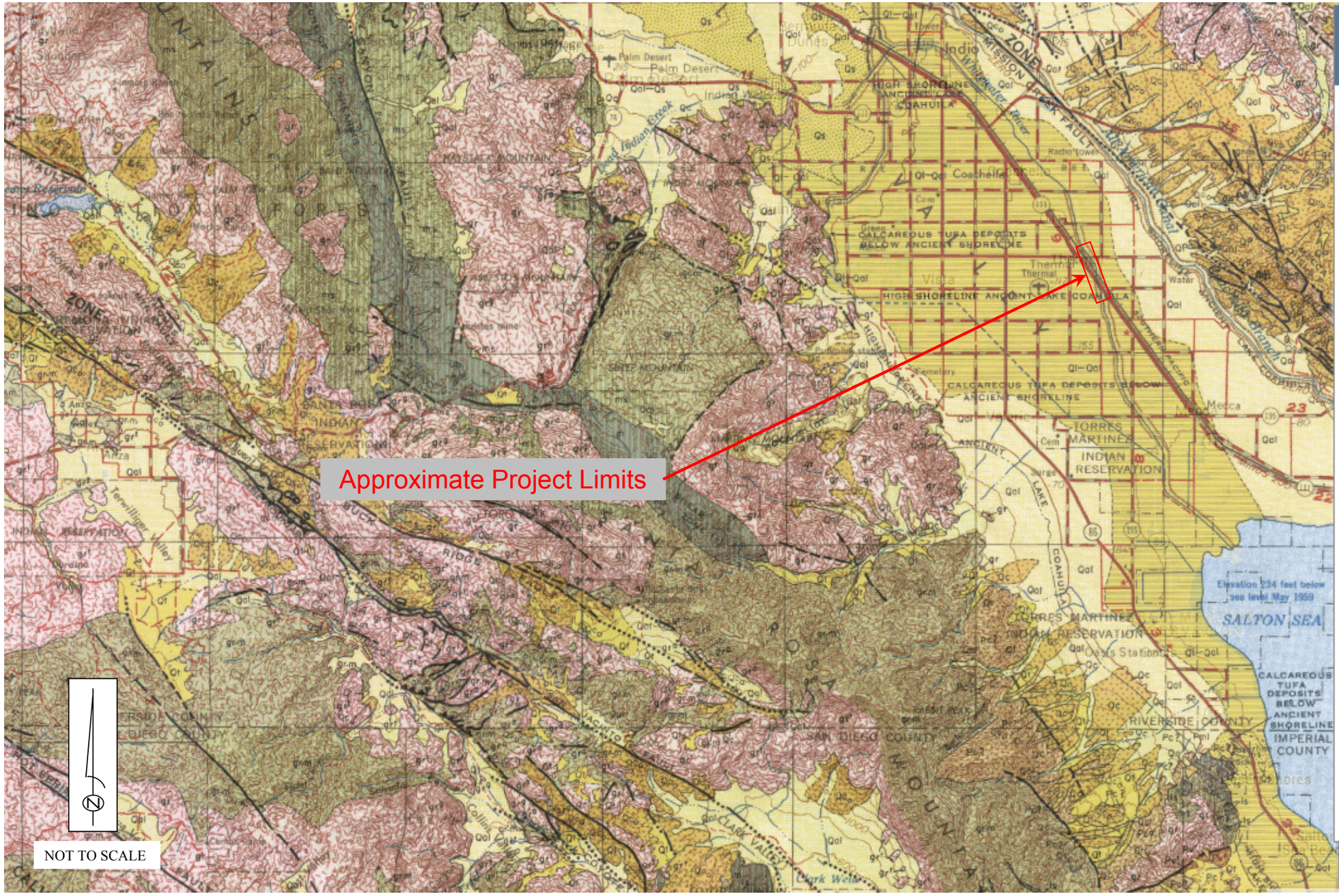
Fault displacement during pre-Quaternary (older than 1,600,000 years) or showing evidence of no displacement during Quaternary time. Not necessarily inactive.

NOT TO SCALE

REFERENCE:

Charles W. Jennings, and W. A. Bryant, 2010, "*Fault Activity Map of California*", California Geological Survey, Geologic Data Map No. 6, map scale 1:750,000.
A portion of this map is presented in this figure.

DESIGNED BY: SL DRAWN BY: SL DATE DRAWN: MARCH 2016 CHECKED BY: SB	COACHELLA VALLEY WATER DISTRICT	COACHELLA VALLEY STORMWATER CHANNEL IMPROVEMENT PROJECT RIVERSIDE COUNTY, CA	GENTERRA CONSULTANTS, INC. ENGINEERING & GEOTECHNICAL SERVICES	PROJECT NO. 393-PB-CVSC	DATE March 15, 2016	FIGURE 4 REGIONAL FAULT MAP



GEOLOGIC ATLAS OF CALIFORNIA - SANTA ANA SHEET

California Geological Survey, Geologic Atlas of California Map No. 019, 1:250,000 scale

Compilation by: Thomas H. Rogers

1965

DESCRIPTION OF MAP UNITS	
Qs	Dune sand
Qal	Alluvium
Ql	Lake deposits
Qg	Glacial deposits
Qt	River terrace deposits
Qm	Pleistocene marine and marine terrace deposits
Qpv	Pleistocene volcanic rocks Qpv^{r}-rhyolite Qpv^{a}-andesite Qpv^{b}-basalt Qpv^{p}-pyroclastic rocks
	Pleistocene

DESIGNED BY: SL DRAWN BY: SL DATE DRAWN: MARCH 2016 CHECKED BY: SB	COACHELLA VALLEY WATER DISTRICT	COACHELLA VALLEY STORMWATER CHANNEL IMPROVEMENT PROJECT RIVERSIDE COUNTY, CA	GENTERRA CONSULTANTS, INC. ENGINEERING & GEOTECHNICAL SERVICES	PROJECT NO. 393-PB-CVSC	DATE March 15, 2016	FIGURE 5 REGIONAL GEOLOGIC MAP

APPENDIX A

RESULTS OF CONE PENETRATION TESTS

SUMMARY

OF

CONE PENETRATION TEST DATA

Project:

Coachella Valley Stormwater Channel
Airport Blvd.
Thermal, CA
October 7-8, 2015

Prepared for:

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Office (888) 423-0111 / Fax (949) 753-8887

Prepared by:



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Huntington Beach, CA 92649-1518
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3. **FIELD EQUIPMENT & PROCEDURES**

4. **CONE PENETRATION TEST DATA & INTERPRETATION**

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- CPT Plots
- CPT Classification/Soil Behavior Chart
- Interpretation Output (CPeT-IT)
- Summary of Shear Wave Velocities
- Pore Pressure Dissipation Graphs
- CPeT-IT Calculation Formulas

SUMMARY
OF
CONE PENETRATION TEST DATA

1. INTRODUCTION

This report presents the results of a Cone Penetration Test (CPT) program carried out for the Coachella Valley Stormwater Channel project located at Airport Blvd. in Thermal, California. The work was performed by Kehoe Testing & Engineering (KTE) on October 7-8, 2015. The scope of work was performed as directed by GENTERRA Consultants, Inc. personnel.

2. SUMMARY OF FIELD WORK

The fieldwork consisted of performing CPT soundings at 14 locations to determine the soil lithology. Groundwater measurements and hole collapse depths provided in **TABLE 2.1** are for information only. The readings indicate the apparent depth to which the hole is open and the apparent water level (if encountered) in the CPT probe hole at the time of measurement upon completion of the CPT. KTE does not warranty the accuracy of the measurements and the reported water levels may not represent the true or stabilized groundwater levels.

LOCATION	DEPTH OF CPT (ft)	COMMENTS/NOTES:
CPT-1	50	Hole open to 15 ft (dry)
CPT-2	30	Hole open to 15 ft (dry)
CPT-3	30	Hole open to 18 ft (dry)
CPT-4	50	Hole open to 25 ft (dry)
CPT-5	50	Hole open to 27 ft (dry)
CPT-6	30	Hole open to 23 ft (dry)
CPT-7	30	Hole open to 14 ft (dry)
CPT-8	50	Hole open to 21 ft (dry)
CPT-9	30	Hole caved @ surface
CPT-10	50	Hole open to 12 ft (dry)
CPT-11	50	Hole open to 27 ft (dry)

LOCATION	DEPTH OF CPT (ft)	COMMENTS/NOTES:
CPT-12	30	Hole open to 25 ft (dry)
CPT-13	50	Hole open to 21 ft (dry)
CPT-14	50	Hole open to 21 ft (dry)

TABLE 2.1 - Summary of CPT Soundings

3. FIELD EQUIPMENT & PROCEDURES

The CPT soundings were carried out by **KTE** using an integrated electronic cone system manufactured by Vertek. The CPT soundings were performed in accordance with ASTM standards (D5778). The cone penetrometers were pushed using a 30-ton CPT rig. The cone used during the program was a 15 cm^2 cone and recorded the following parameters at approximately 2.5 cm depth intervals:

- Cone Resistance (qc)
- Sleeve Friction (fs)
- Dynamic Pore Pressure (u)
- Inclination
- Penetration Speed
- Pore Pressure Dissipation (at selected depths)

At locations CPT-4, CPT-8, CPT-11 & CPT-14, shear wave measurements were obtained at approximately 5-foot intervals. The shear wave is generated using an air-actuated hammer, which is located inside the front jack of the CPT rig. The cone has a triaxial geophone, which recorded the shear wave signal generated by the air hammer.

The above parameters were recorded and viewed in real time using a laptop computer. Data is stored at the KTE office for future analysis and reference. A complete set of baseline readings was taken prior to each sounding to determine temperature shifts and any zero load offsets. Monitoring base line readings ensures that the cone electronics are operating properly.

4. CONE PENETRATION TEST DATA & INTERPRETATION

The Cone Penetration Test data is presented in graphical form in the attached Appendix. These plots were generated using the CPeT-IT program. Penetration depths are referenced to ground surface. The soil classification on the CPT plots is derived from the attached CPT Classification Chart (Robertson) and presents major soil lithologic changes. The stratigraphic interpretation is based on relationships between cone resistance (qc), sleeve friction (fs), and penetration pore pressure (u). The friction ratio (Rf), which is sleeve friction divided by cone resistance, is a calculated parameter that is used along with cone resistance to infer soil behavior type. Generally, cohesive soils (clays) have high friction ratios, low cone resistance and generate excess pore water pressures. Cohesionless soils (sands) have lower friction ratios, high cone bearing and generate little (or negative) excess pore water pressures.

Tables of basic CPT output from the interpretation program CPeT-IT are provided for CPT data averaged over one foot intervals in the Appendix. Spreadsheet files of the averaged basic CPT output and averaged estimated geotechnical parameters are also included for use in further geotechnical analysis. We recommend a geotechnical engineer review the assumed

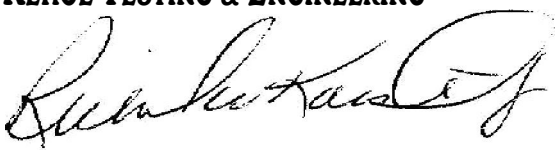
input parameters and the calculated output from the CPeT-IT program. A summary of the equations used for the tabulated parameters is provided in the Appendix.

It should be noted that it is not always possible to clearly identify a soil type based on qc, fs and u. In these situations, experience, judgement and an assessment of the pore pressure data should be used to infer the soil behavior type.

If you have any questions regarding this information, please do not hesitate to call our office at (714) 901-7270.

Sincerely,

KEHOE TESTING & ENGINEERING



Richard W. Koester, Jr.
General Manager

10/15/15-ms-5952

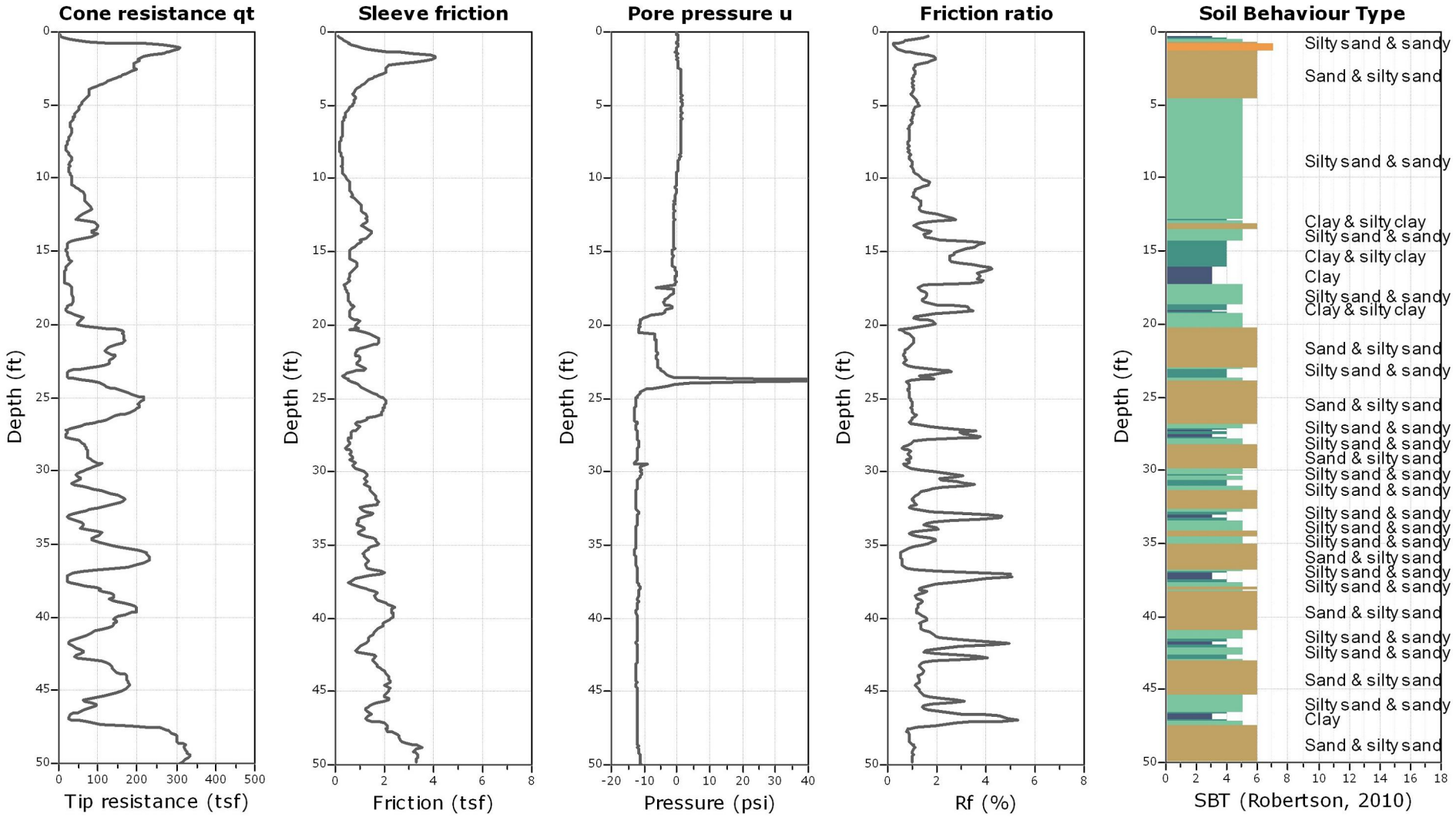
APPENDIX

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714-901-7270
rich@kehoetesting.com
www.kehoetesting.com

CPT: CPT-1

Project: **GENTERRA Consultants, Inc./Coachella Valley Stormwater Channel**
Location: **Airport Blvd Thermal, CA**

Total depth: 50.22 ft, Date: 10/8/2015
Cone Type: Vertek

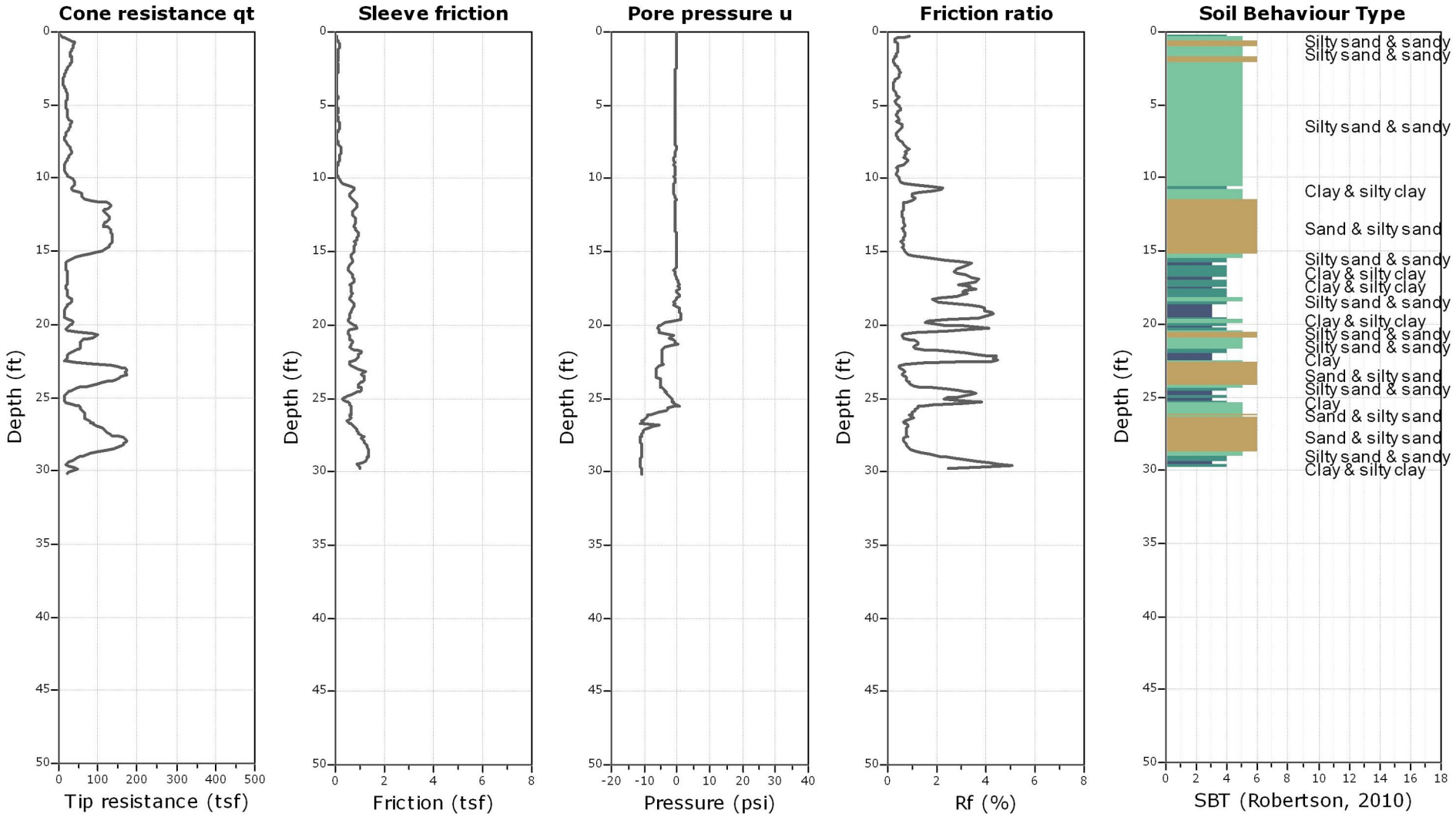


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www.kehoetesting.com

CPT: CPT-2

Project: **GENTERRA Consultants, Inc./Coachella Valley Stormwater Channel**
Location: **Airport Blvd Thermal, CA**

Total depth: 30.22 ft, Date: 10/14/2015
Cone Type: Vertek

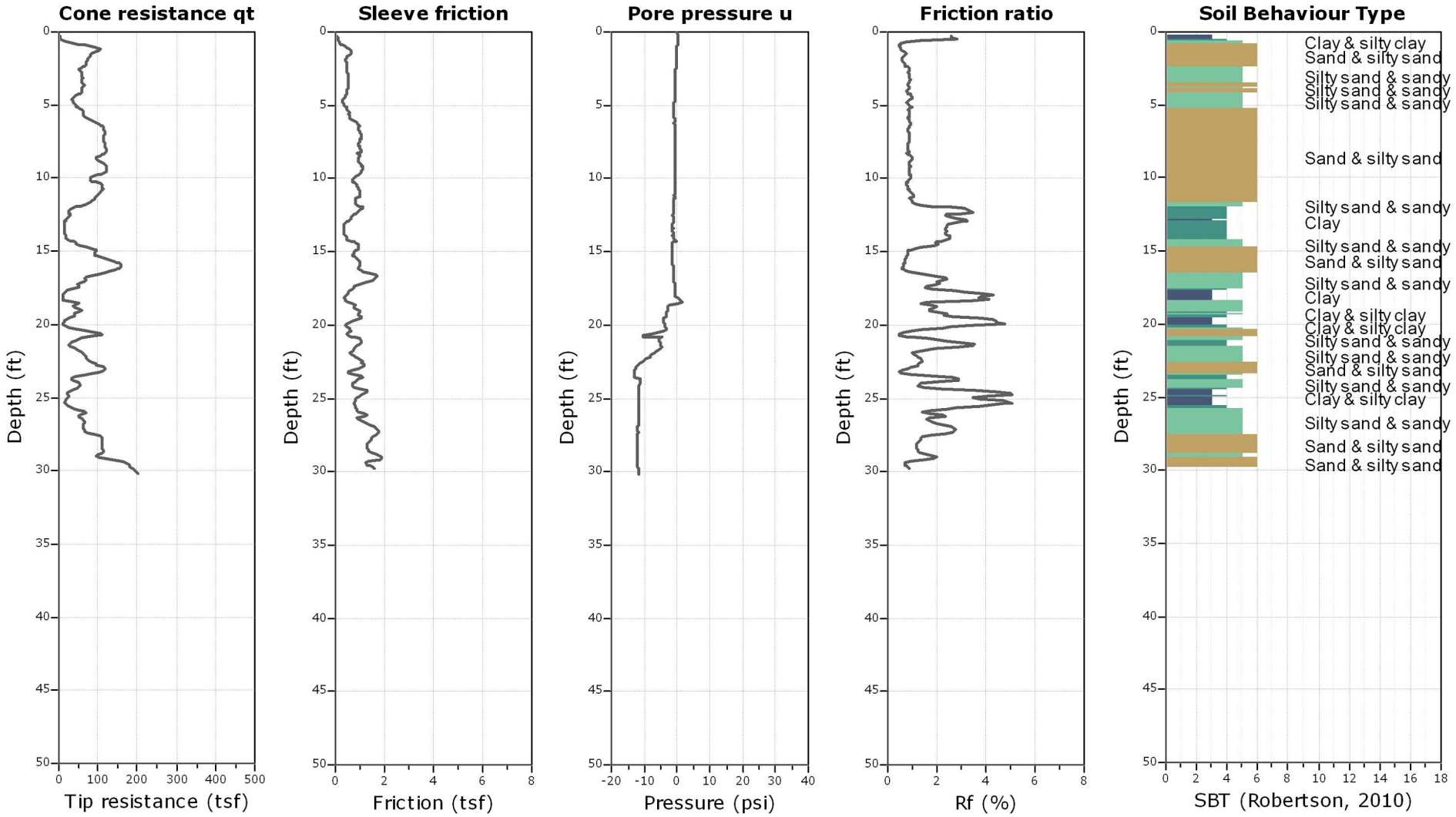


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www.kehoetesting.com

CPT: CPT-3

Project: **GENTERRA Consultants, Inc./Coachella Valley Stormwater Channel**
Total depth: 30.20 ft, Date: 10/14/2015

Location: **Airport Blvd Thermal, CA**
Cone Type: Vertek

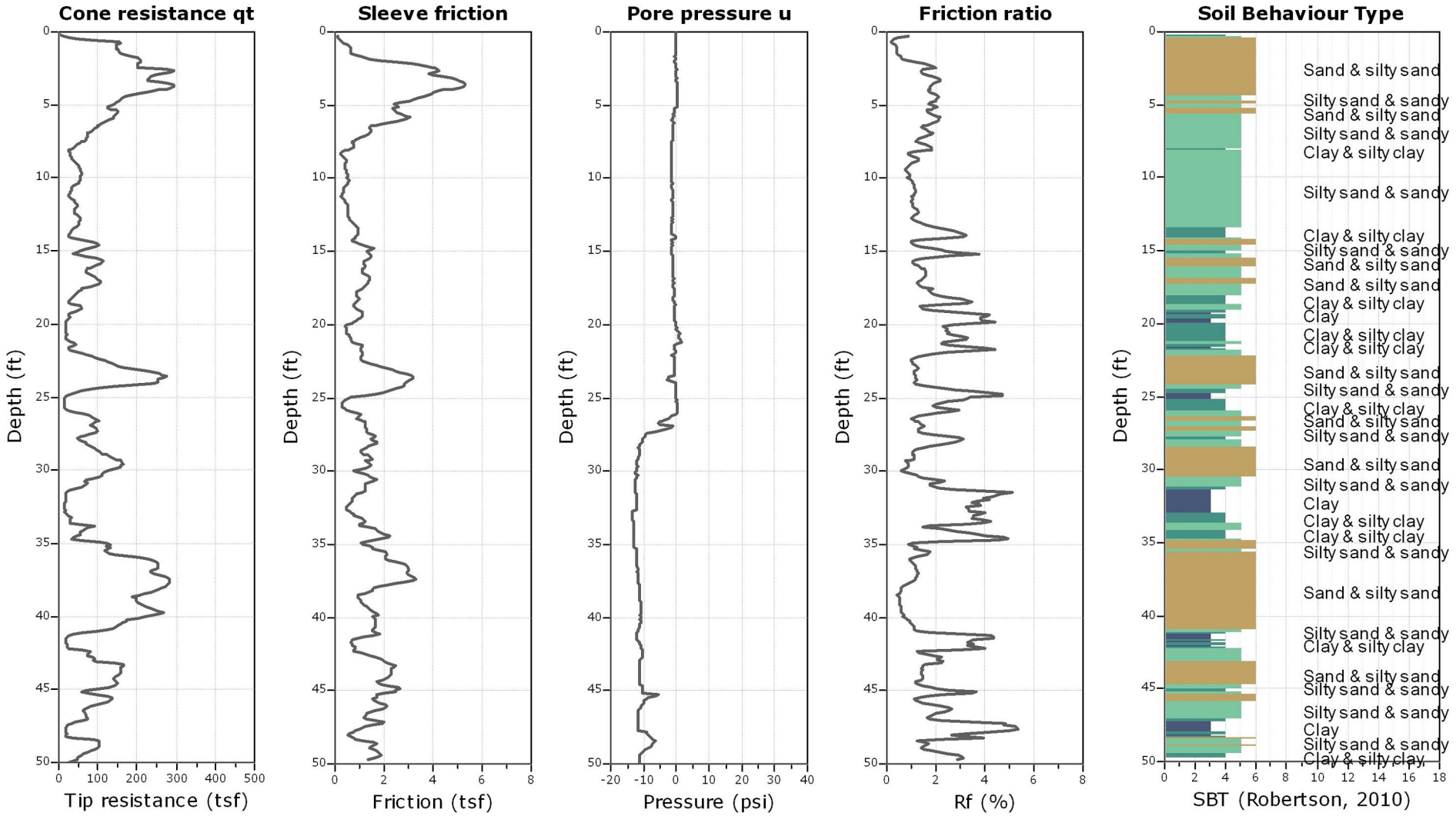


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CPT: CPT-4

Project: **GENTERRA Consultants, Inc./Coachella Valley Stormwater Channel**
Total depth: 50.16 ft, Date: 10/14/2015

Location: **Airport Blvd Thermal, CA**
Cone Type: Vertek

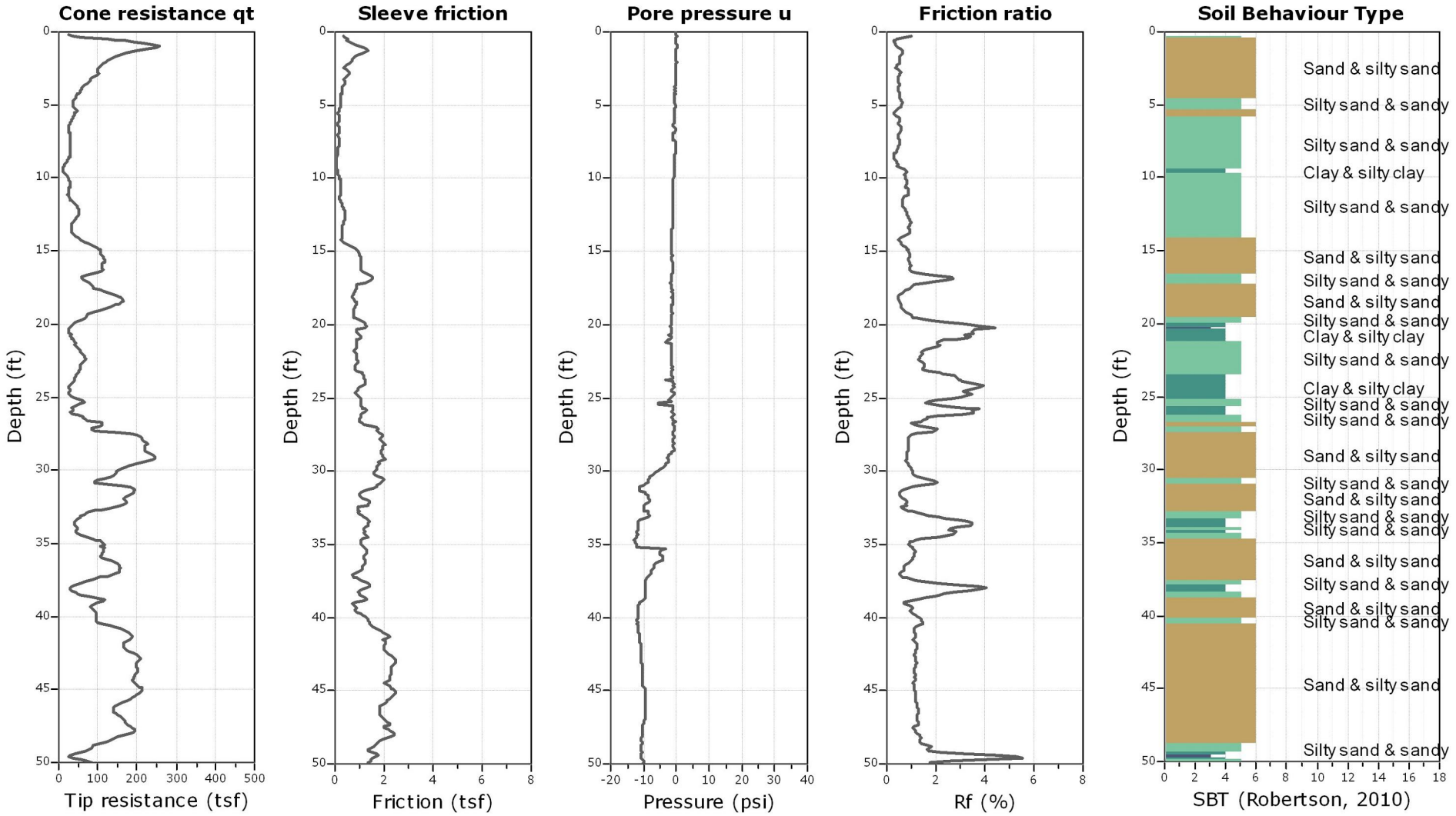


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rich@kehoetesting.com
www.kehoetesting.com

CPT: CPT-5

Project: **GENTERRA Consultants, Inc./Coachella Valley Stormwater Channel**
Location: **Airport Blvd Thermal, CA**

Total depth: 50.26 ft, Date: 10/14/2015
Cone Type: Vertek

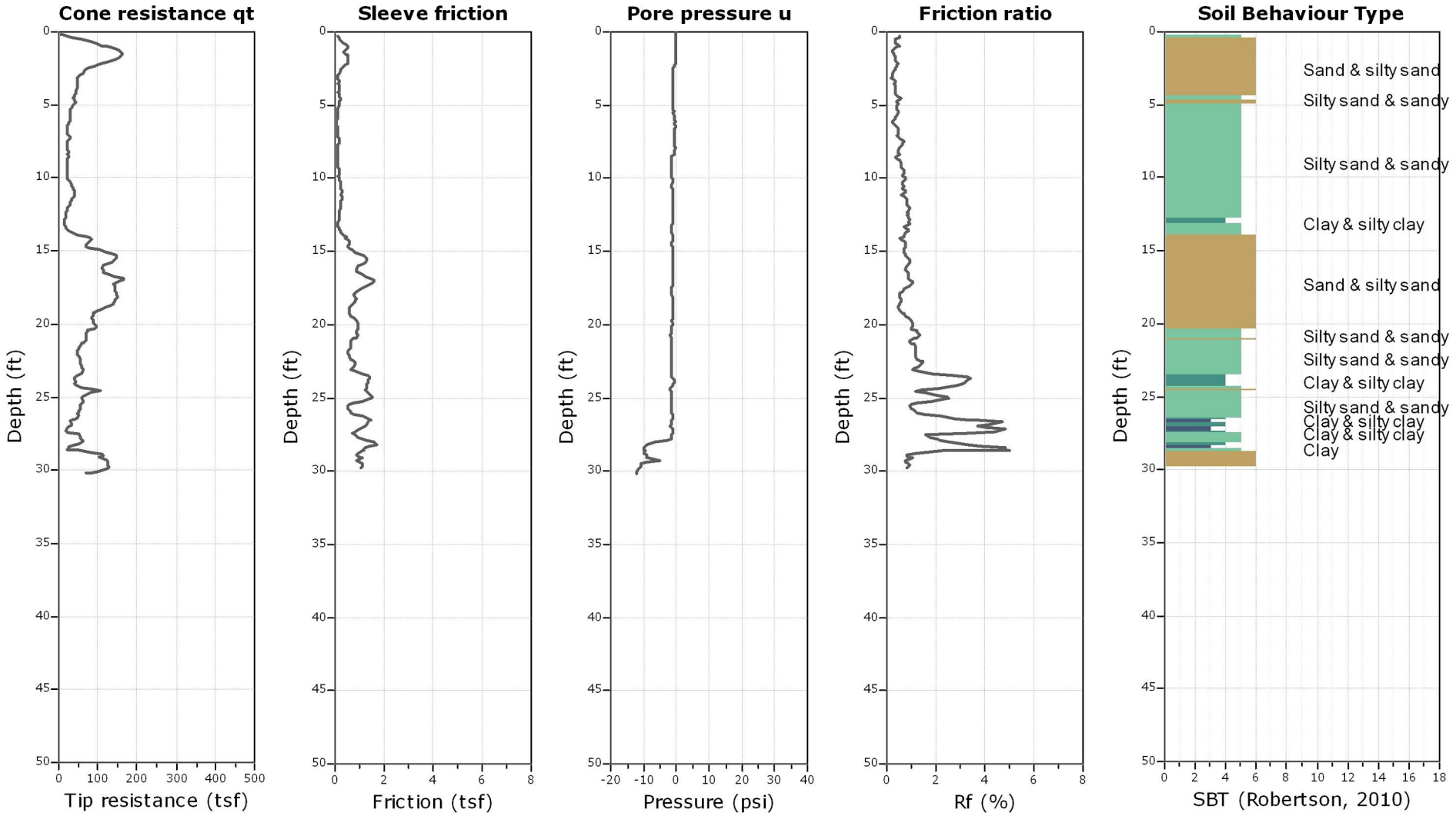


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CPT: CPT-6

Project: **GENTERRA Consultants, Inc./Coachella Valley Stormwater Channel**
Location: **Airport Blvd Thermal, CA**

Total depth: 30.21 ft, Date: 10/14/2015
Cone Type: Vertek

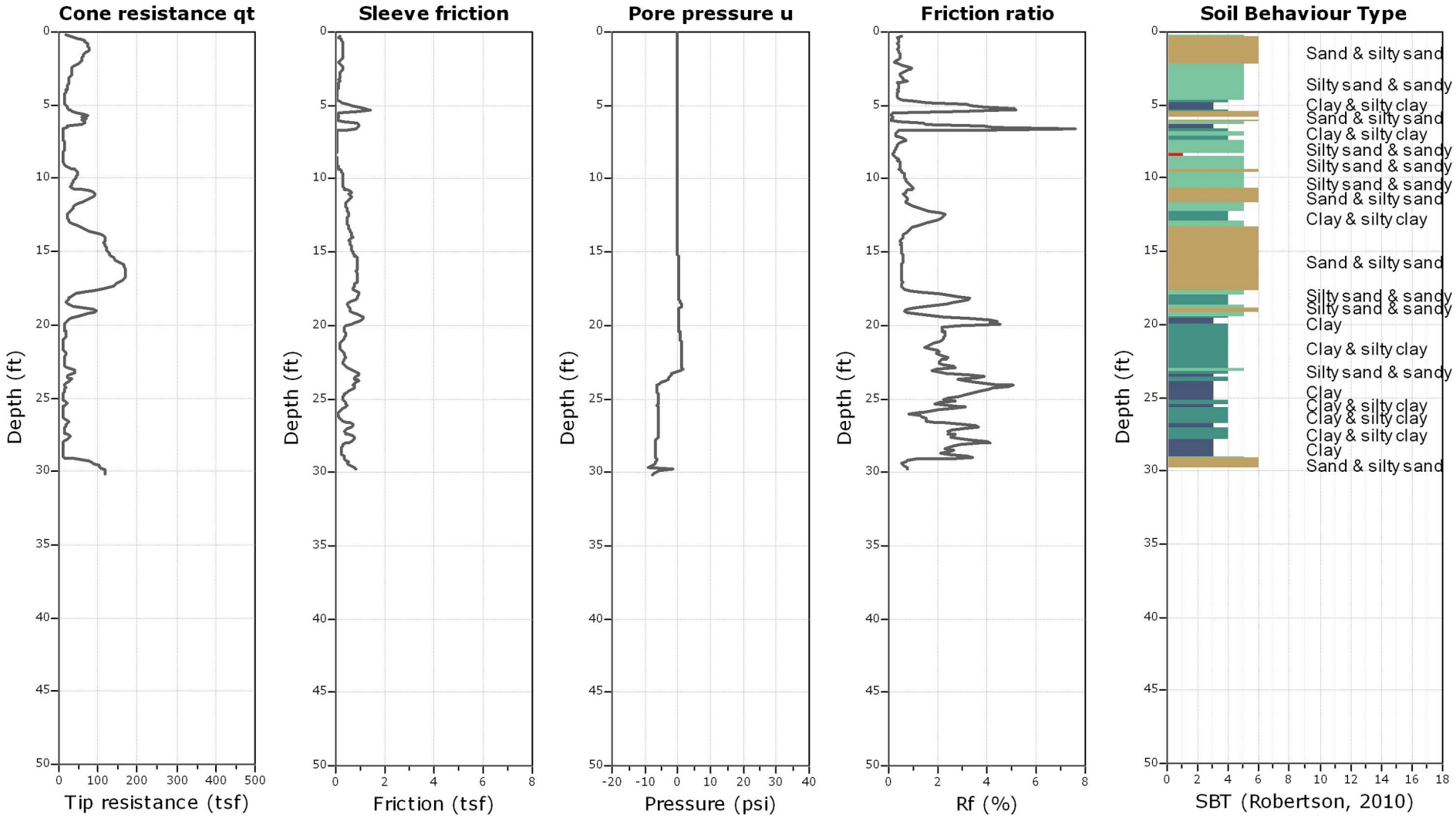


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CPT: CPT-7

Project: **GENTERRA Consultants, Inc./Coachella Valley Stormwater Channel**
Location: **Airport Blvd Thermal, CA**

Total depth: 30.21 ft, Date: 10/8/2015
Cone Type: Vertek

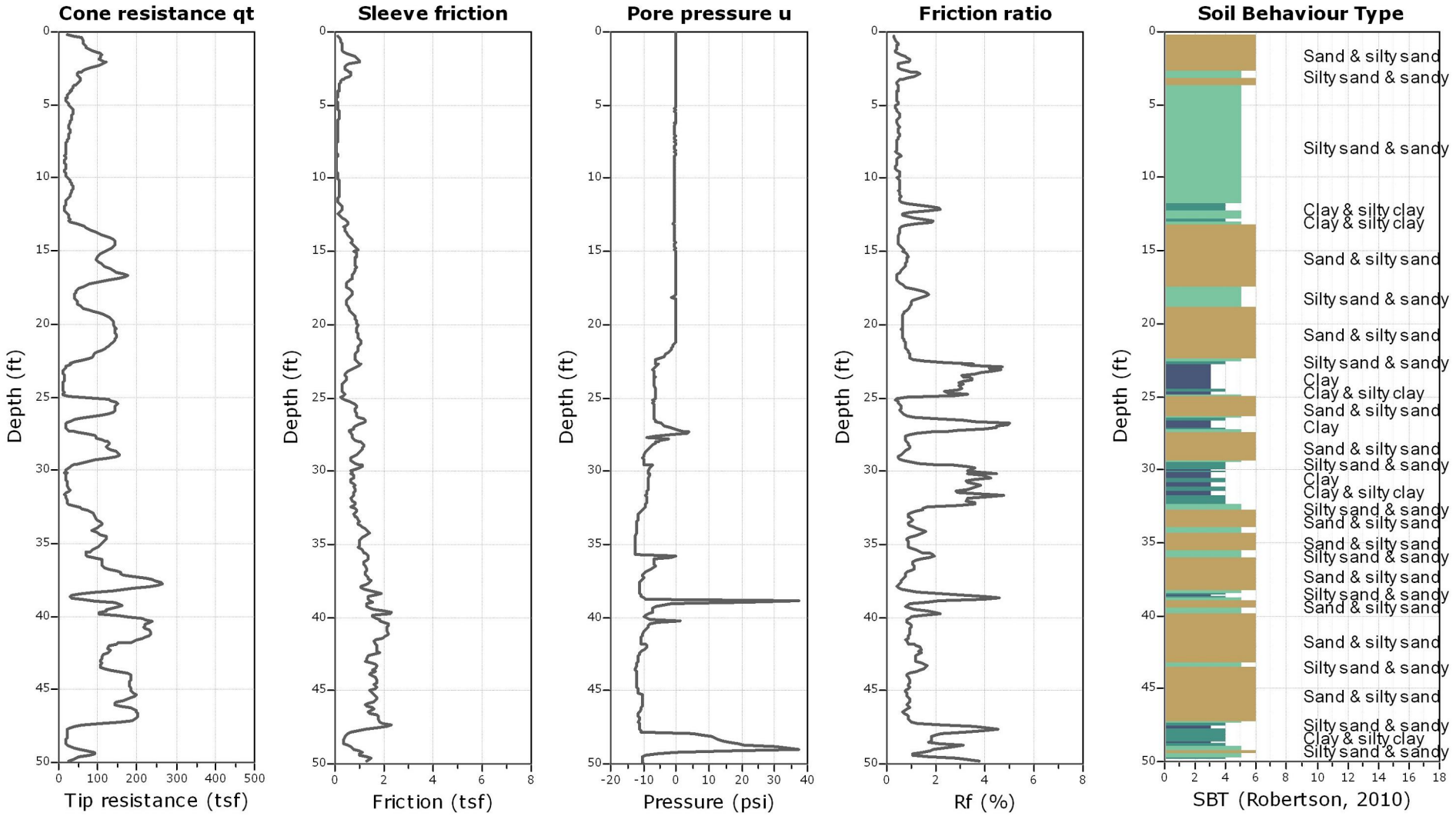


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CPT: CPT-8

Project: **GENTERRA Consultants, Inc./Coachella Valley Stormwater Channel**
Total depth: 50.18 ft, Date: 10/8/2015

Location: **Airport Blvd Thermal, CA**
Cone Type: Vertek

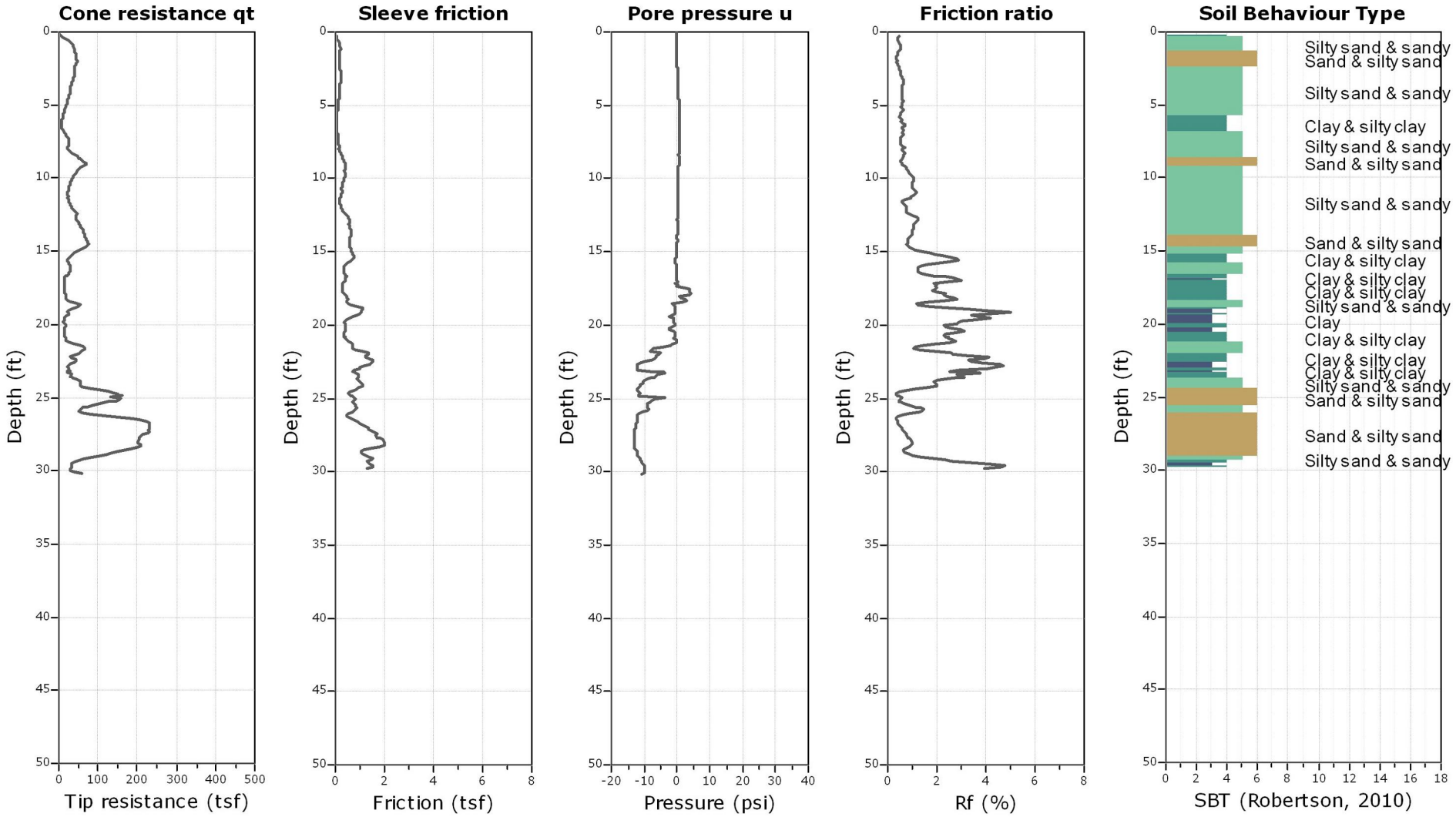


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CPT: CPT-9

Project: **GENTERRA Consultants, Inc./Coachella Valley Stormwater Channel**
Location: **Airport Blvd Thermal, CA**

Total depth: 30.16 ft, Date: 10/14/2015
Cone Type: Vertek

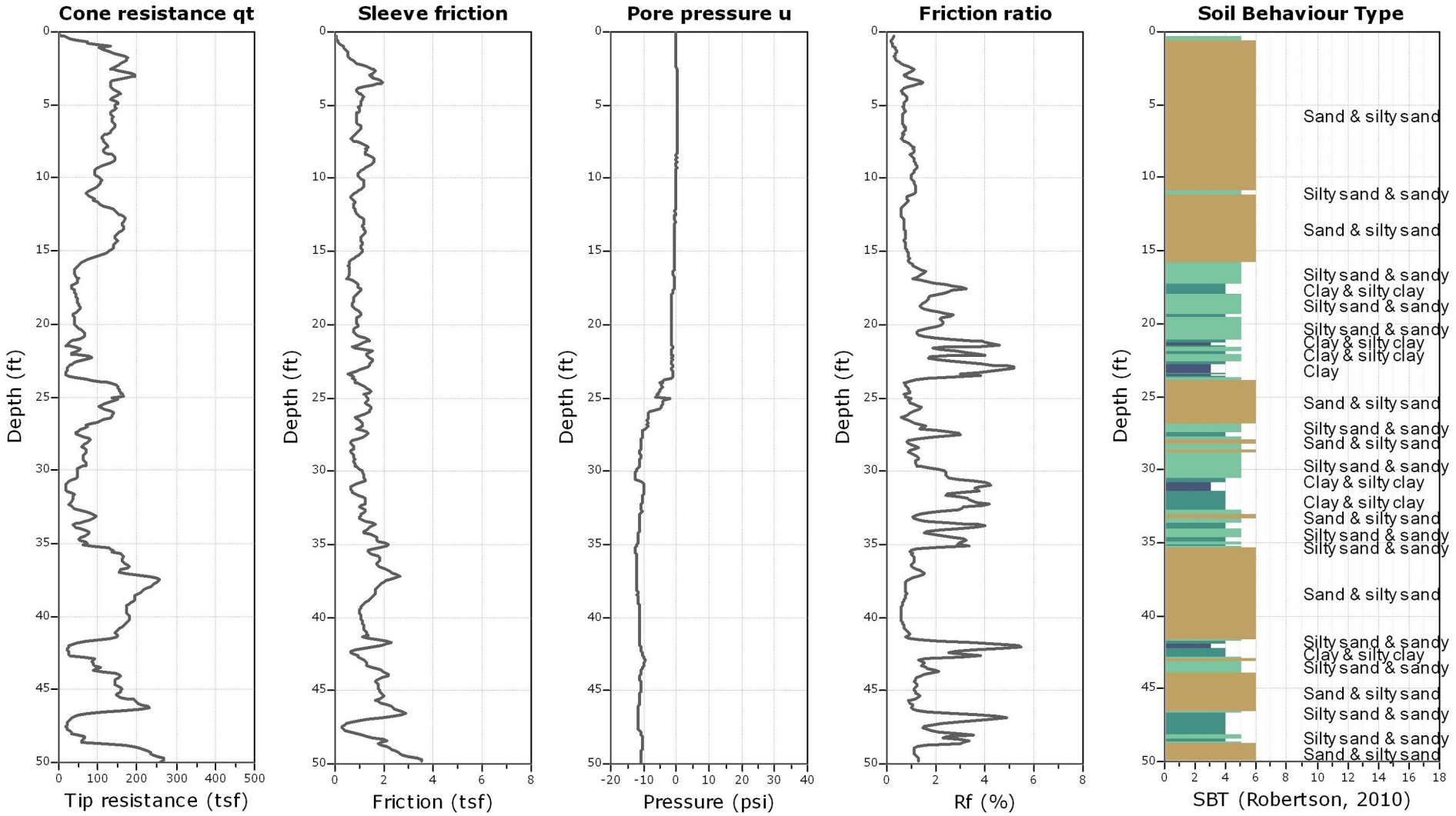


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CPT: CPT-10

Project: **GENTERRA Consultants, Inc./Coachella Valley Stormwater Channel**
Total depth: 50.21 ft, Date: 10/14/2015

Location: **Airport Blvd Thermal, CA**
Cone Type: Vertek

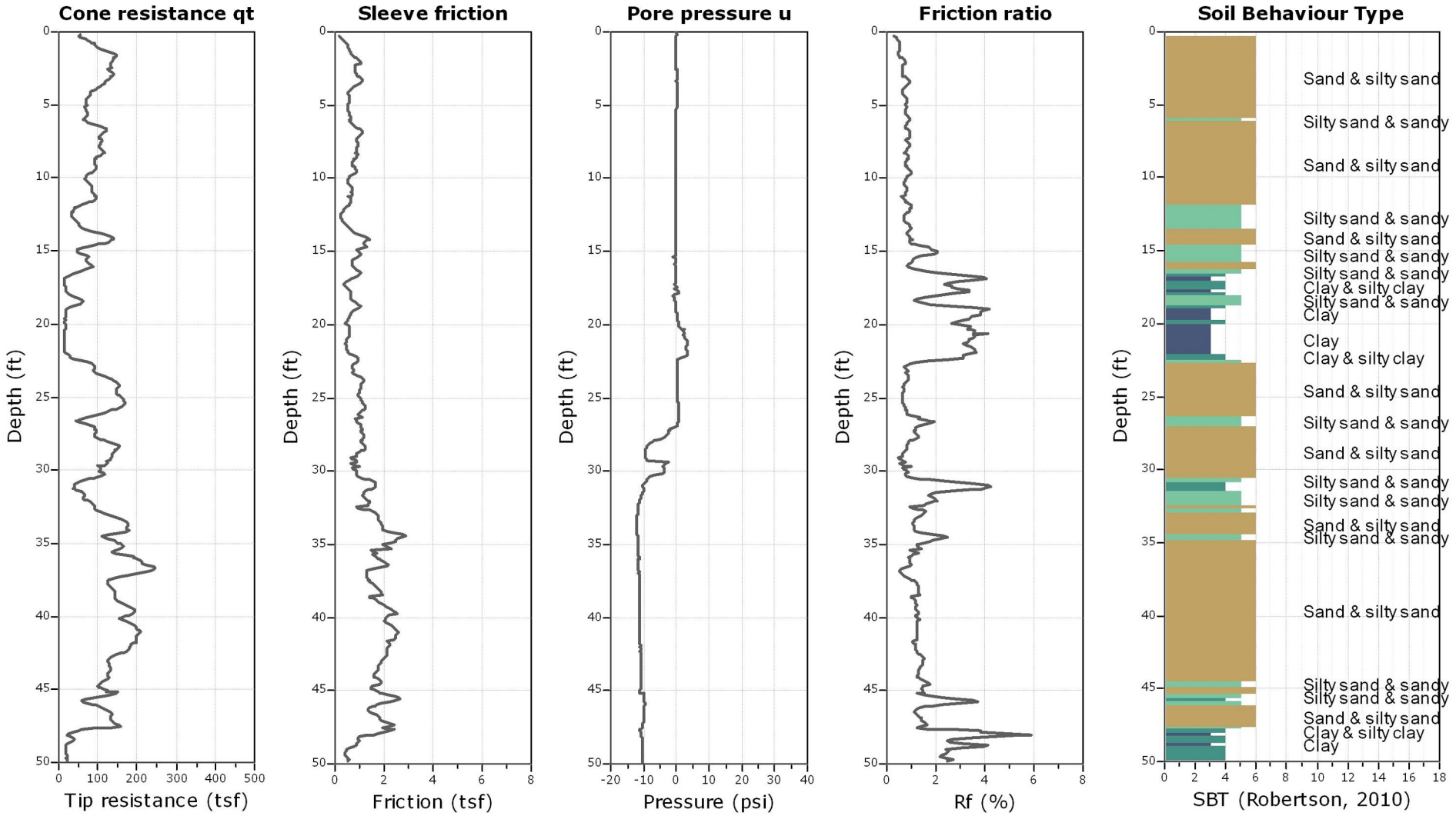


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CPT: CPT-11

Project: **GENTERRA Consultants, Inc./Coachella Valley Stormwater Channel**
Location: **Airport Blvd Thermal, CA**

Total depth: 50.20 ft, Date: 10/14/2015
Cone Type: Vertek

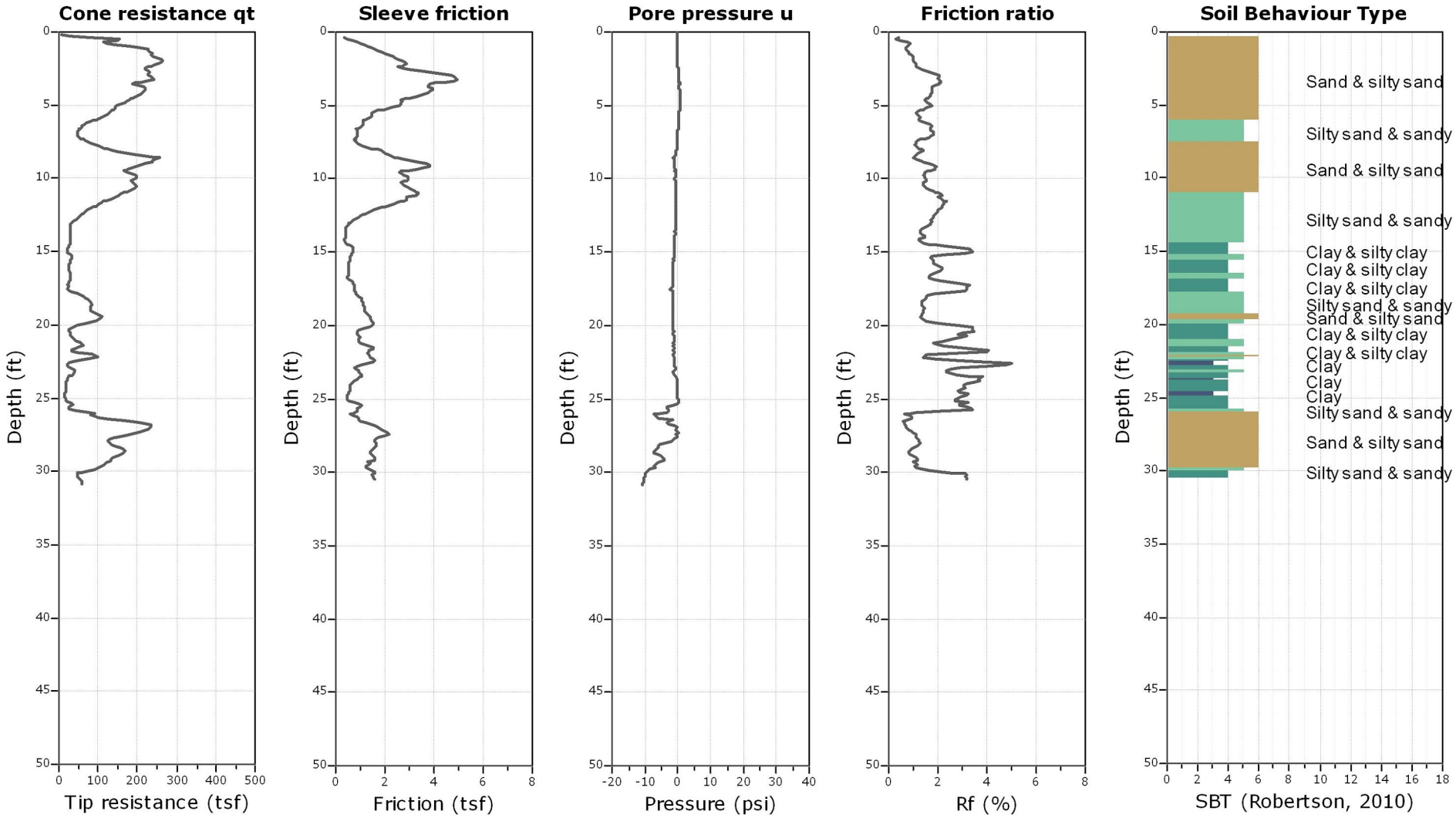


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CPT: CPT-12

Project: **GENTERRA Consultants, Inc./Coachella Valley Stormwater Channel**
Location: **Airport Blvd Thermal, CA**

Total depth: 30.86 ft, Date: 10/14/2015
Cone Type: Vertek

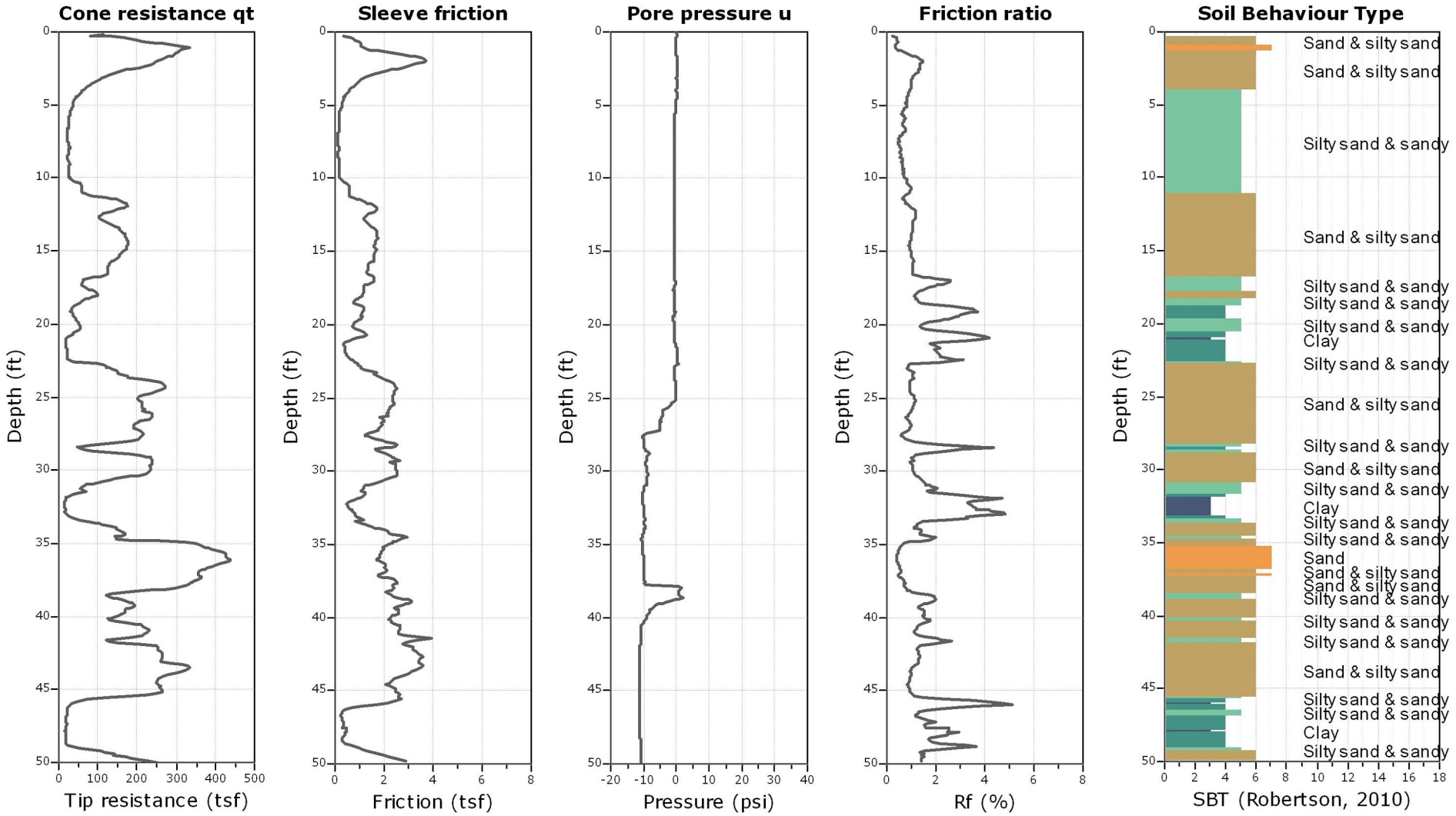


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CPT: CPT-13

Project: **GENTERRA Consultants, Inc./Coachella Valley Stormwater Channel**
Location: **Airport Blvd Thermal, CA**

Total depth: 50.23 ft, Date: 10/8/2015
Cone Type: Vertek

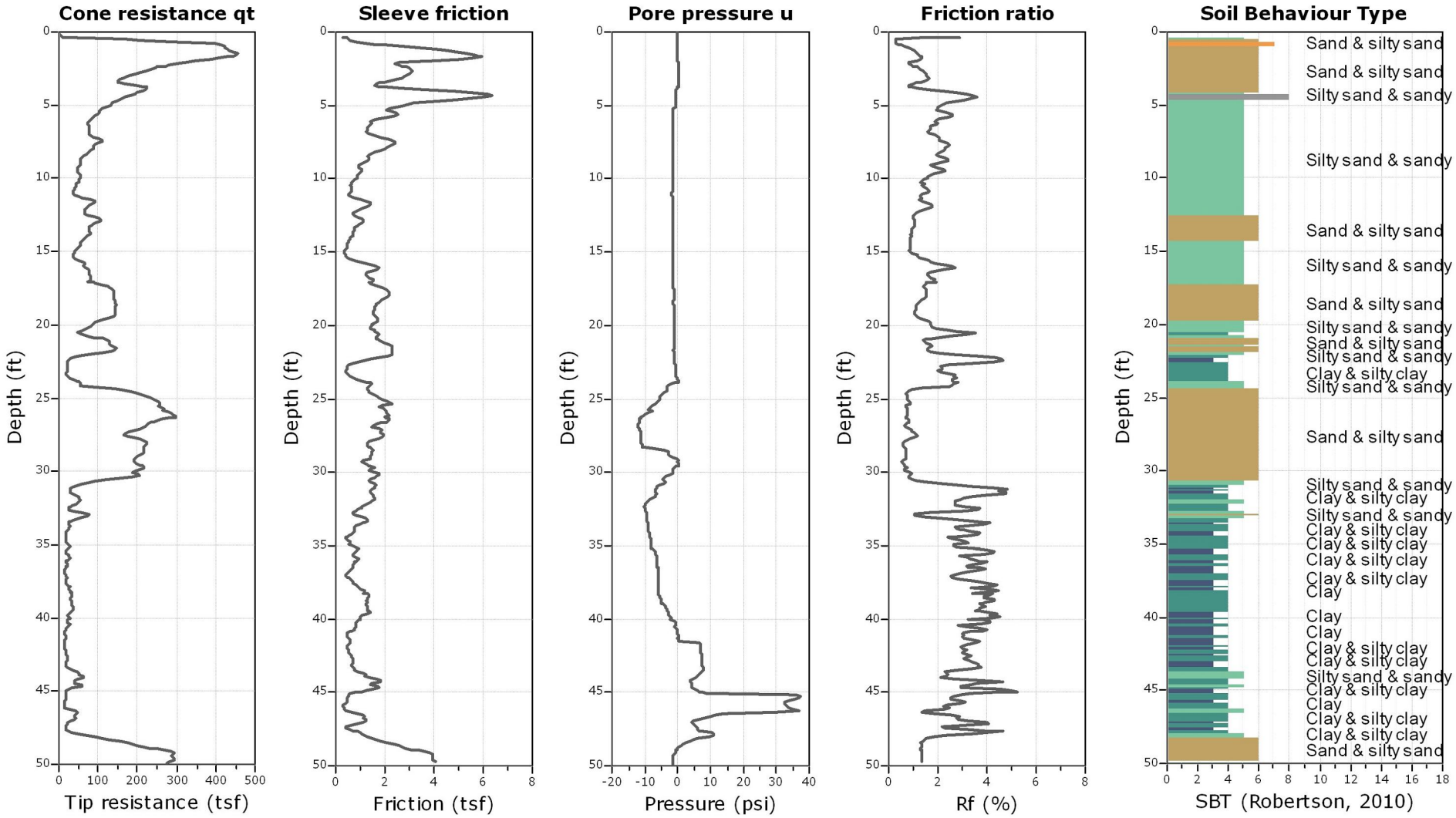


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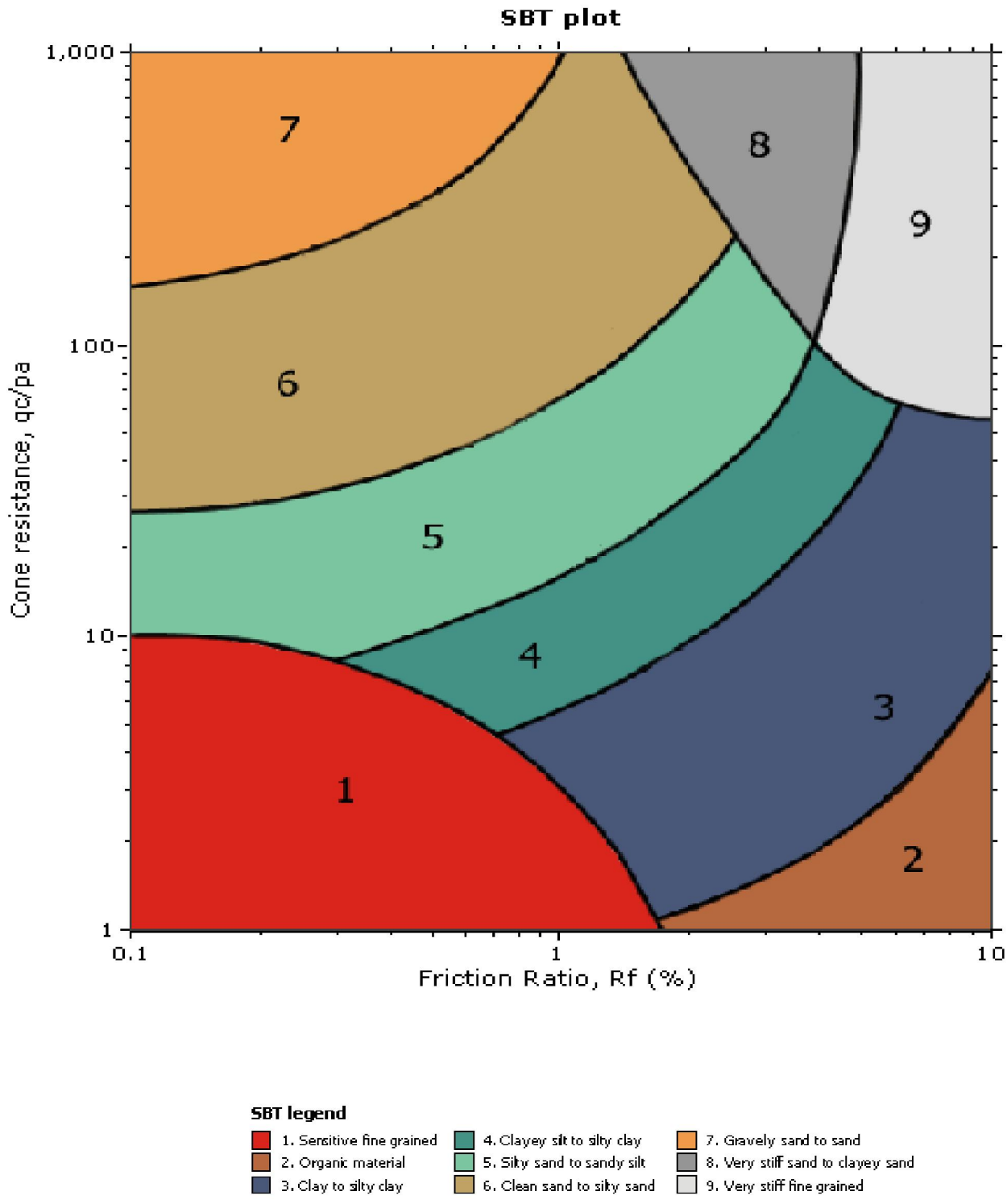
CPT: CPT-14

Project: **GENTERRA Consultants, Inc./Coachella Valley Stormwater Channel**
Location: **Airport Blvd Thermal, CA**

Total depth: 50.09 ft, Date: 10/8/2015
Cone Type: Vertek



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	CPT-1	In situ data			Basic output data														
Depth (ft)	qc (tsf)	fs (tsf)	u (psi)	Other	qt (tsf)	Rf(%)	SBT	Ic SBT	ã (pcf)	ó,v (tsf)	u0 (tsf)	ó',vo (tsf)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.1	1.8	0	0	-0.1	1.8	0	0	0	120.9	0.00605	0	0.0061	296.77	0	0	0	1	175.04	0	0
0.2	4	0	0.04	-0.28	4.00049	0	0	0	120.9	0.01209	0	0.0121	329.89	0	0.0007	0	1	87.519	0	0
0.3	5.4	0.08	0.08	-0.02	5.40098	1.4812	3	3.09237	95.90418	0.01689	0	0.0169	318.86	1.4859	0.0011	5	0.6519	14.843	2.1146	75.52935
0.4	11.6	0.17	0.14	-0.29	11.6017	1.4653	4	2.79745	103.2843	0.02205	0	0.0221	525.17	1.4681	0.0009	6	0.6039	10.359	1.9816	113.364
0.5	27	0.29	0.15	0.02	27.0018	1.074	5	2.41279	109.2525	0.02751	0	0.0275	980.45	1.0751	0.0004	6	0.5239	6.7673	1.7569	172.5191
0.6	52.4	0.38	0.07	-0.13	52.4009	0.7252	5	2.07814	112.8474	0.03315	0	0.0332	1579.5	0.7256	0.0001	6	0.444	4.6534	1.5476	230.3072
0.7	89.2	0.52	0	-0.27	89.2	0.583	6	1.83192	116.4398	0.03898	0	0.039	2287.6	0.5832	0	6	0.3862	3.5791	1.3975	301.5886
0.8	176.3	0.53	0.04	-0.92	176.3	0.3006	6	1.43019	118.2409	0.04489	0	0.0449	3926.5	0.3007	2E-05	7	0.2785	2.411	1.1125	401.6178
0.9	248.3	0.58	0.18	-1.08	248.302	0.2336	7	1.24711	119.7358	0.05088	0	0.0509	4879.6	0.2336	5E-05	7	0.2313	2.0178	0.9889	473.4224
1	286.9	0.86	0.09	-1.37	286.901	0.2998	7	1.24917	122.9704	0.05702	0	0.057	5030.3	0.2998	2E-05	7	0.2368	1.9969	1.0139	541.3451
1.1	307.4	1.08	-0.04	-1.59	307.4	0.3513	7	1.26492	124.8054	0.06326	0	0.0633	4858	0.3514	-1E-05	7	0.248	2.0108	1.0399	584.0382
1.2	301.9	1.39	-0.24	-1.67	301.897	0.4604	6	1.34518	126.6078	0.06959	0	0.0696	4336.9	0.4605	-6E-05	7	0.2809	2.1481	1.1164	612.7352
1.3	284.2	1.92	-0.15	-1.71	284.198	0.6756	6	1.47828	128.824	0.07604	0	0.076	3736.7	0.6758	-4E-05	7	0.3283	2.3739	1.243	637.4408
1.4	275.7	2.55	-0.41	-1.71	275.695	0.9249	6	1.58682	130.8262	0.08258	0	0.0826	3337.6	0.9252	-1E-04	6	0.3691	2.5633	1.3505	667.682
1.5	266.2	3.2	0.2	-1.76	266.202	1.2021	6	1.68323	132.4021	0.0892	0	0.0892	2983.4	1.2025	5E-05	6	0.4057	2.7274	1.4463	685.929
1.6	239.5	3.8	0.02	-1.81	239.5	1.5866	6	1.80596	133.4017	0.09587	0	0.0959	2497.3	1.5873	1E-05	6	0.4495	2.9429	1.5609	665.8538
1.7	218.8	4.06	-0.15	-1.78	218.798	1.8556	6	1.88372	133.6655	0.10255	0	0.1026	2132.6	1.8565	-5E-05	8	0.4757	3.0348	1.6336	627.2442
1.8	209.7	4.02	0.13	-1.79	209.702	1.917	6	1.90621	133.4895	0.10922	0	0.1092	1918.9	1.918	4E-05	8	0.4861	3.0155	1.6553	597.3226
1.9	203.7	3.91	0.01	-1.78	203.7	1.9195	6	1.91444	133.2156	0.11589	0	0.1159	1756.8	1.9206	0	8	0.49	2.9558	1.6648	568.7115
2	204.3	3.56	0.11	-1.8	204.301	1.7425	6	1.88083	132.5367	0.12251	0	0.1225	1666.6	1.7436	4E-05	6	0.4794	2.8114	1.6361	542.5065
2.1	196.2	3.12	0.2	-1.82	196.202	1.5902	6	1.86143	131.4727	0.12909	0	0.1291	1518.9	1.5912	7E-05	6	0.4725	2.7023	1.617	500.7519
2.2	192.4	2.31	0.18	-1.83	192.402	1.2006	6	1.77576	129.2256	0.13555	0	0.1356	1418.4	1.2015	7E-05	6	0.4417	2.4786	1.5349	450.3849
2.3	191.7	2.16	0.25	-1.83	191.703	1.1267	6	1.75677	128.7255	0.14198	0	0.142	1349.2	1.1276	9E-05	6	0.4363	2.4022	1.5199	434.8991
2.4	191.6	2.1	0.33	-1.82	191.604	1.096	6	1.74825	128.5181	0.14841	0	0.1484	1290	1.0969	0.0001	6	0.4349	2.3496	1.5153	425.1352
2.5	192.8	2.05	0.61	-1.82	192.807	1.0632	6	1.73688	128.357	0.15483	0	0.1548	1244.3	1.0641	0.0002	6	0.4326	2.2964	1.5084	418.113
2.6	194.1	2.04	1.01	-1.82	194.112	1.0509	6	1.73121	128.3377	0.16124	0	0.1612	1202.8	1.0518	0.0004	6	0.4323	2.2554	1.507	413.4059
2.7	187.5	2.07	1.07	-1.82	187.513	1.1039	6	1.75701	128.3602	0.16766	0	0.1677	1117.4	1.1049	0.0004	6	0.4424	2.2591	1.5328	399.9936
2.8	177.4	2	1.13	-1.83	177.414	1.1273	6	1.7803	127.9734	0.17406	0	0.1741	1018.3	1.1284	0.0005	6	0.4509	2.2564	1.5543	377.9536
2.9	168.5	1.84	1.17	-1.83	168.514	1.0919	6	1.78622	127.2378	0.18042	0	0.1804	933	1.0931	0.0005	6	0.4531	2.2288	1.5592	354.5716
3	160.7	1.7	1.16	-1.83	160.714	1.0578	6	1.79128	126.5432	0.18675	0	0.1868	859.58	1.059	0.0005	6	0.4551	2.2019	1.5637	334.0527
3.1	153	1.59	1.21	-1.85	153.015	1.0391	6	1.80136	125.934	0.19305	0	0.1931	791.63	1.0404	0.0006	6	0.4589	2.1831	1.5729	315.3012
3.2	144.6	1.46	1.22	-1.86	144.615	1.0096	6	1.81078	125.1721	0.19931	0	0.1993	724.59	1.011	0.0006	6	0.4623	2.1635	1.581	295.2887
3.3	133.8	1.35	1.28	-1.87	133.816	1.0089	6	1.83555	124.4097	0.20553	0	0.2055	650.09	1.0104	0.0007	6	0.4708	2.1628	1.6025	273.1081
3.4	123.1	1.28	1.28	-1.87	123.116	1.0397	6	1.87129	123.8168	0.21172	0	0.2117	580.51	1.0415	0.0008	6	0.4832	2.1759	1.6343	252.7356
3.5	114.4	1.16	1.28	-1.87	114.416	1.0139	6	1.88818	122.9178	0.21786	0	0.2179	524.17	1.0158	0.0008	6	0.4889	2.1656	1.6486	233.7214
3.6	104.9	1.08	1.33	-1.87	104.916	1.0294	6	1.9212	122.1835	0.22397	0	0.224	467.44	1.0316	0.0009	6	0.5003	2.1746	1.6778	215.1584
3.7	97.6	1	1.36	-1.87	97.6167	1.0244	6	1.94399	121.4445	0.23004	0	0.23	423.34	1.0268	0.001	6	0.5083	2.1721	1.6981	199.917
3.8	89.6	0.92	1.36	-1.87	89.6167	1.0266	6	1.97346	120.6259	0.23608	0	0.2361	378.61	1.0293	0.0011	6	0.5185	2.1767	1.7241	183.8679
3.9	82.1	0.85	1.39	-1.87	82.117	1.0351	6	2.00547	119.8337	0.24207	0	0.2421	338.23	1.0382	0.0012	6	0.5296	2.184	1.7525	168.9978
4	77	0.78	1.42	-1.87	77.0174	1.0128	6	2.02172	119.0485	0.24802	0	0.248	309.53	1.016	0.0013	6	0.5355	2.1747	1.7673	157.7782
4.1	75.6	0.75	1.36	-1.87	75.6167	0.9919	6	2.0226	118.7167	0.25396	0	0.254	296.76	0.9952	0.0013	6	0.5369	2.1515	1.7702	153.2403
4.2	77	0.73	1.36	-1.89	77.0167	0.9479	6	2.00441	118.5637	0.25988	0	0.2599	295.35	0.9511	0.0013	6	0.5321	2.1108	1.7569	153.1225
4.3	77.9	0.74	1.45	-1.88	77.9178	0.9497	6	2.00088	118.6916	0.26582	0	0.2658	292.12	0.953	0.0013	6	0.5326	2.0869	1.7575	153.1543
4.4	76.9	0.79	1.41	-1.87	76.9173	1.0271	6	2.02587	119.1385	0.27177	0	0.2718	282.02	1.0307	0.0013	6	0.543	2.0919	1.7842	151.5278
4.5	73.7	0.82	1.28	-1.87	73.7157	1.1124	5	2.06166	119.3075	0.27774	0	0.2777	264.41	1.1166	0.0013	6	0.5567	2.1057	1.8197	146.1457
4.6	69.4	0.8	1.37	-1.87	69.4168	1.1525	5	2.0917	118.9803	0.28369	0	0.2837	243.69	1.1572	0.0014	6	0.5679	2.1119	1.8484	137.9846
4.7	65.8	0.78	1.43	-1.88	65.8175	1.1851	5	2.11741	118.6652	0.28962	0	0.2896	226.25	1.1903	0.0016	6	0.5777	2.1138	1.8734	130.9085
4.8	62.1	0.75	1.44	-1.88	62.1176	1.2074	5	2.14226	118.2371	0.29553	0	0.2955	209.19	1.2132	0.0017	6	0.5871	2.1144	1.8973	123.5402
4.9	58.2	0.73	1.61	-1.89	58.2197	1.2539	5	2.17459	117.8813	0.30143	0	0.3014	192.15	1.2604	0.002	6	0.5991	2.1219	1.9282	116.1458
5	55.4	0.7	1.66	-1.89	55.4203	1.2631	5	2.19356	117.454	0.3073	0	0.3073	179.35	1.2701	0.0022	6	0.6051	2.113	1.9475	110.0564
5.1	53.2	0.66	1.55	-1.9	53.219	1.2402	5	2.20288	116.9246	0.31315	0	0.3132	168.95	1.2475	0.0021	6	0.6091	2.0994	1.9574	104.9705
5.2	51.2	0.54	1.36	-1.91	51.2167	1.0543	5	2.17524	115.3628	0.31892	0	0.3189	159.6	1.061	0.0019	6	0.6009	2.0557	1.9306	98.88298
5.3	49.6	0.52	1.35	-1.91	49.6165	1.048	5	2.18508	115.0092	0.32467	0	0.3247	151.82	1.0549	0.002	6	0.6038	2.0408	1.9421	95.06806
5.4	47	0.49	1.23	-1.91	47.0151	1.0422	5	2.20302	114.4431	0.33039	0	0.3304	141.3	1.0496	0.0019	6	0.6108	2.0359	1.9596	89.82672
5.5	44.4	0.46	1.4	-1.93	44.4171	1.0356	5	2.22195	113.8421	0.33608	0	0.3361	131.16	1.0435	0.0023	6	0.6182	2.0319	1.9781	84.64775
5.6	42.1	0.43	1.44	-1.93	42.1176	1.021	5	2.23777	113.219	0.34174	0	0.3417	122.24	1.0293	0.0025	6	0.6244	2.0253	1.9937	79.96252
5.7	40.4	0.42	1.34	-1.93	40.4164	1.0392	5	2.25696	112.9463	0.34739	0	0.3474	115.34	1.0482	0.0024	6	0.6323	2.0222	2.0134	76.57932
5.8	39.2	0.4	1.28	-1.93	39.2157	1.02	5	2.26352	112.5157	0.35301	0	0.353	110.09	1.0293	0.0024	6	0.6356	2.0091	2.0213	73.79074
5.9	37.6	0.37	1.4	-1.93	37.6171	0.9836	5	2.27025	111.8438	0.35861	0	0.3586	103.9	0.9931	0.0027	6	0.6387	1.9959	2.0287	70.2795
6	35.7	0.35	1.31	-1.93	35.716	0.98	5	2.28847	111.3107	0.36417	0	0.3642	97.075	0.9901	0.0027	6	0.646	1.9917	2.047	66.54412
6.1	32.9	0.33	1.28	-1.95	32.9157	1.0026	5	2.32382	110.681	0.36971	0	0.3697	88.032	1.014	0.0028	5	0.6591	1.9999	2.0806	61.51373
6.2	30.8	0.3	1.24	-1.95	30.8152	0.9736	5	2.34163	109.8228	0.3752	0	0.3752	81.131	0.9856	0.0029	5	0.666	1.9947	2.0979	57.38493
6.3	29.5	0.28	1.21	-1.96	29.5148	0.9487	5	2.35195	109.2128	0.38066	0	0.3807	76.536	0.9611	0.003	5	0.6705	1.9848	2.109	54.64909
6.4	29.9	0.27	1.13	-1.95	29.9138	0.9026	5	2.33597	108.9795	0.38611	0	0.3861	76.476	0.9144	0.0028	5	0.6662	1.9574	2.0969	54.62279
6.5	31.6	0.28	1.17	-1.96	31.6143	0.8857	5	2.31109	109.3804	0.39158	0	0.3916	79.736	0.8968	0.0027	5	0.6593	1.9258	2.078	56.82655
6.6	33.2	0.28	1.28	-1.97	33.2157	0.843	5	2.28174	109.5009	0.39705	0	0.3971	82.656	0.8532	0.0028	6	0.6505	1.8919	2.0543	58.68053
6.7	33.5	0.29	1.28	-1.99	33.5157	0.8653	5	2.28409	109.7796	0.40254	0	0.4025	82.26	0.8758	0.0028	6	0.6529	1.8795	2.0598	58.81854
6.8	33.6	0.29	1.05	-1.99	33.6129	0.8628	5	2.28237	109.7867	0.40803	0	0.408	81.379	0.8734	0.0023	6	0.6537	1.8643	2.0611	58.50501

6.9	32.8	0.29	1.09	-1.98	32.8133	0.8838	5	2.29668	109.728	0.41352	0	0.4135	78.352	0.8951	0.0024	5	0.66	1.8592	2.0769	56.92824
7	30.9	0.27	1.09	-1.99	30.9133	0.8734	5	2.31646	109.0596	0.41897	0	0.419	72.784	0.8854	0.0026	5	0.6678	1.8565	2.0965	53.5037
7.1	28.7	0.26	1.05	-2	28.7129	0.9055	5	2.35207	108.6034	0.4244	0	0.4244	66.655	0.9191	0.0027	5	0.6814	1.8635	2.1313	49.8216
7.2	26.6	0.24	1.04	-2.01	26.6127	0.9018	5	2.37981	107.8325	0.42979	0	0.4298	60.92	0.9166	0.0029	5	0.692	1.8653	2.1583	46.15687
7.3	25.3	0.22	1.03	-2	25.3126	0.8691	5	2.39093	107.0736	0.43514	0	0.4351	57.171	0.8843	0.003	5	0.6967	1.8572	2.1701	43.66591
7.4	24.1	0.21	0.99	-1.99	24.1121	0.8709	5	2.40984	106.6147	0.44047	0	0.4405	53.741	0.8871	0.003	5	0.7045	1.8541	2.1897	41.47913
7.5	22.6	0.19	1.23	-2.01	22.6151	0.8402	5	2.42687	105.7261	0.44576	0	0.4458	49.734	0.857	0.004	5	0.7113	1.8495	2.2069	38.74944
7.6	21.3	0.18	1.28	-2.02	21.3157	0.8445	5	2.4506	105.1862	0.45102	0	0.451	46.261	0.8627	0.0044	5	0.7208	1.849	2.231	36.45904
7.7	20.2	0.17	1.25	-2.03	20.2153	0.841	5	2.47013	104.6387	0.45625	0	0.4563	43.307	0.8604	0.0046	5	0.7288	1.846	2.2512	34.47225
7.8	19.3	0.17	1.21	-2.03	19.3148	0.8802	5	2.49686	104.5275	0.46148	0	0.4615	40.854	0.9017	0.0046	5	0.7396	1.8473	2.2789	32.91505
7.9	18.9	0.16	1.21	-2.03	18.9148	0.8459	5	2.49693	104.0329	0.46668	0	0.4667	39.531	0.8673	0.0047	5	0.7407	1.8337	2.2811	31.97063
8	19	0.16	1.18	-2.03	19.0144	0.8415	5	2.49385	104.0457	0.47188	0	0.4719	39.295	0.8629	0.0046	5	0.741	1.8191	2.2811	31.87793
8.1	20.4	0.17	1.13	-2.04	20.4138	0.8328	5	2.46441	104.6625	0.47712	0	0.4771	41.786	0.8527	0.0041	5	0.7321	1.7915	2.2571	33.75565
8.2	22.4	0.19	1.1	-2.05	22.4135	0.8477	5	2.43214	105.7043	0.4824	0	0.4824	45.462	0.8664	0.0036	5	0.7224	1.7637	2.231	36.5548
8.3	24.5	0.21	0.99	-2.07	24.5121	0.8567	5	2.40014	106.6549	0.48773	0	0.4877	49.257	0.8741	0.003	5	0.7127	1.7367	2.2049	39.43142
8.4	26.6	0.24	0.86	-2.07	26.6105	0.9019	5	2.37986	107.8323	0.49313	0	0.4931	52.963	0.9189	0.0024	5	0.7074	1.7161	2.1902	42.35934
8.5	28.8	0.26	1.04	-2.07	28.8127	0.9024	5	2.35001	108.6119	0.49856	0	0.4986	56.792	0.9183	0.0026	5	0.6984	1.6914	2.1659	45.26028
8.6	32.1	0.28	0.6	-2.11	32.1073	0.8721	5	2.3019	109.4182	0.50403	0	0.504	62.702	0.886	0.0014	5	0.6828	1.6593	2.1244	49.5597
8.7	32.8	0.29	0.54	-2.09	32.8066	0.884	5	2.2968	109.7275	0.50951	0	0.5095	63.388	0.8979	0.0012	5	0.6824	1.6466	2.1225	50.25864
8.8	31.3	0.29	0.31	-2.11	31.3038	0.9264	5	2.3247	109.6131	0.51499	0	0.515	59.785	0.9419	0.0007	5	0.6936	1.6478	2.1511	47.94673
8.9	28.6	0.28	0.37	-2.07	28.6045	0.9789	5	2.37059	109.1364	0.52045	0	0.5205	53.961	0.997	0.001	5	0.711	1.6562	2.1961	43.95762
9	27.7	0.27	0.33	-2.08	27.704	0.9746	5	2.38157	108.7923	0.52589	0	0.5259	51.68	0.9935	0.0009	5	0.716	1.6497	2.2086	42.37425
9.1	27.6	0.26	0.27	-2.09	27.6033	0.9419	5	2.37546	108.5073	0.53132	0	0.5313	50.953	0.9604	0.0007	5	0.7149	1.6364	2.2049	41.86685
9.2	27.5	0.26	0.21	-2.09	27.5026	0.9454	5	2.37763	108.4984	0.53674	0	0.5367	50.24	0.9642	0.0006	5	0.7169	1.6267	2.2094	41.45686
9.3	26.4	0.27	0.16	-2.12	26.402	1.0227	5	2.41021	108.6749	0.54217	0	0.5422	47.696	1.0441	0.0005	5	0.73	1.6292	2.243	39.81748
9.4	26.1	0.28	0.1	-2.11	26.1012	1.0728	5	2.42514	108.913	0.54762	0	0.5476	46.663	1.0957	0.0003	5	0.7367	1.6246	2.26	39.23385
9.5	26.3	0.28	0.04	-2.11	26.3005	1.0646	5	2.4206	108.9316	0.55307	0	0.5531	46.554	1.0875	0.0001	5	0.7363	1.6123	2.2582	39.23335
9.6	27.1	0.29	0	-2.11	27.1	1.0701	5	2.41062	109.2614	0.55853	0	0.5585	47.52	1.0926	0	5	0.734	1.5984	2.2515	40.09332
9.7	28.6	0.32	0	-2.13	28.6	1.1189	5	2.40082	110.1131	0.56404	0	0.564	49.706	1.1414	0	5	0.732	1.5849	2.2456	41.99459
9.8	30.3	0.37	-0.01	-2.15	30.2999	1.2211	5	2.40003	111.3162	0.5696	0	0.5696	52.195	1.2445	-2E-05	5	0.7335	1.575	2.2486	44.25338
9.9	32.6	0.41	-0.07	-2.15	32.5991	1.2577	5	2.38053	112.2457	0.57521	0	0.5752	55.673	1.2803	-2E-04	5	0.728	1.5585	2.2335	47.16791
10	33.9	0.46	-0.13	-2.15	33.8984	1.357	5	2.38498	113.183	0.58087	0	0.5809	57.358	1.3807	-3E-04	5	0.7312	1.5504	2.2413	48.81919
10.1	34.1	0.51	-0.19	-2.16	34.0977	1.4957	5	2.40713	113.9523	0.58657	0	0.5866	57.131	1.5219	-4E-04	5	0.7408	1.5481	2.2657	49.03045
10.2	33.9	0.55	-0.2	-2.17	33.8976	1.6225	5	2.42985	114.4904	0.59229	0	0.5923	56.231	1.6514	-4E-04	5	0.7505	1.5457	2.2904	48.65321
10.3	34	0.57	-0.15	-2.17	33.9982	1.6766	5	2.43721	114.759	0.59803	0	0.598	55.85	1.7066	-3E-04	5	0.7545	1.5381	2.3001	48.55006
10.4	34.7	0.58	-0.15	-2.18	34.6982	1.6716	5	2.42932	114.936	0.60378	0	0.6038	56.468	1.7012	-3E-04	5	0.7529	1.5256	2.2951	49.15735
10.5	38.7	0.57	-0.31	-2.19	38.6962	1.473	5	2.35865	115.0747	0.60953	0	0.6095	62.485	1.4966	-6E-04	5	0.7282	1.4943	2.2297	53.78661
10.6	43.3	0.56	-0.38	-2.19	43.2954	1.2934	5	2.28605	115.2191	0.61529	0	0.6153	69.365	1.3121	-6E-04	5	0.7029	1.4638	2.1624	59.04456
10.7	48.1	0.56	-0.32	-2.2	48.0961	1.1643	5	2.22236	115.4756	0.62107	0	0.6211	76.441	1.1796	-5E-04	5	0.6808	1.4372	2.1038	64.48535
10.8	52.7	0.58	-0.3	-2.22	52.6963	1.1007	5	2.17587	115.9551	0.62687	0	0.6269	83.063	1.1139	-4E-04	5	0.6651	1.4165	2.0618	69.70441
10.9	57.1	0.62	-0.3	-2.23	57.0963	1.0859	5	2.14415	116.6387	0.6327	0	0.6327	89.243	1.0981	-4E-04	6	0.6548	1.4004	2.0342	74.72801
11	61.3	0.66	-0.32	-2.24	61.2961	1.0767	5	2.11706	117.2693	0.63856	0	0.6386	94.991	1.0881	-4E-04	6	0.6462	1.3859	2.0109	79.44951
11.1	64.7	0.7	-0.44	-2.24	64.6946	1.082	5	2.09948	117.8314	0.64445	0	0.6445	99.387	1.0929	-5E-04	6	0.6411	1.3742	1.9966	83.18316
11.2	65.6	0.68	-0.45	-2.24	65.5945	1.0367	5	2.08359	117.653	0.65034	0	0.6503	99.863	1.0471	-5E-04	6	0.6362	1.363	1.983	83.65461
11.3	65.5	0.71	-0.51	-2.25	65.4938	1.0841	5	2.0957	117.9651	0.65623	0	0.6562	98.803	1.095	-6E-04	6	0.6417	1.3587	1.9968	83.25953
11.4	65.4	0.78	-0.57	-2.27	65.393	1.1928	5	2.12135	118.6494	0.66217	0	0.6622	97.756	1.205	-6E-04	6	0.6524	1.3577	2.0241	83.05863
11.5	65.2	0.86	-0.46	-2.28	65.1944	1.3191	5	2.14938	119.3564	0.66813	0	0.6681	96.577	1.3328	-5E-04	5	0.664	1.357	2.0537	82.7522
11.6	67.8	0.93	-0.87	-2.28	67.7894	1.3719	5	2.14689	120.0242	0.67414	0	0.6741	99.558	1.3857	-9E-04	5	0.6643	1.3492	2.0539	85.57662
11.7	72.6	0.99	-0.76	-2.28	72.5907	1.3638	5	2.1223	120.6485	0.68017	0	0.6802	105.72	1.3767	-8E-04	6	0.6565	1.3366	2.0327	90.83664
11.8	76.4	1.03	-0.9	-2.28	76.389	1.3484	5	2.10212	121.0627	0.68622	0	0.6862	110.32	1.3606	-9E-04	6	0.6503	1.3252	2.0154	94.81407
11.9	80.3	1.05	-0.86	-2.29	80.2895	1.3078	5	2.07702	121.3249	0.69229	0	0.6923	114.98	1.3191	-8E-04	6	0.6421	1.3131	1.9932	98.77971
12	83	1.06	-0.85	-2.3	82.9896	1.2773	5	2.05943	121.475	0.69836	0	0.6984	117.83	1.2881	-7E-04	6	0.6366	1.3028	1.9781	101.3213
12.1	83	1.07	-0.88	-2.3	82.9892	1.2893	5	2.06206	121.5436	0.70444	0	0.7044	116.81	1.3004	-8E-04	6	0.6386	1.2967	1.9824	100.8353
12.2	78.9	1.08	-0.76	-2.28	78.8907	1.369	5	2.09567	121.4882	0.71051	0	0.7105	110.03	1.3814	-7E-04	6	0.6519	1.2964	2.0166	95.78801
12.3	71	1.09	-0.81	-2.28	70.9901	1.5354	5	2.16287	121.2982	0.71658	0	0.7166	98.068	1.5511	-8E-04	5	0.6776	1.3022	2.0833	86.48695
12.4	64.2	1.16	-0.87	-2.29	64.1894	1.8072	5	2.24226	121.5081	0.72265	0	0.7227	87.825	1.8277	-1E-03	5	0.708	1.3099	2.1624	78.57032
12.5	58	1.24	-0.88	-2.3	57.9892	2.1383	5	2.32373	121.7483	0.72874	0	0.7287	78.575	2.1655	-0.001	5	0.7393	1.3174	2.2437	71.29441
12.6	52	1.26	-0.83	-2.28	51.9898	2.4236	5	2.39536	121.599	0.73482	0	0.7348	69.752	2.4583	-0.001	5	0.7669	1.3226	2.3154	64.06748
12.7	46.6	1.23	-0.83	-2.28	46.5898	2.6401	5	2.45561	121.1552	0.74088	0	0.7409	61.885	2.6827	-0.001	5	0.7906	1.3255	2.3759	57.43444
12.8	50.8	1.28	-0.78	-2.3	50.7905	2.5202	5	2.41426	121.6573	0.74696	0	0.747	66.996	2.5578	-0.001	5	0.7764	1.3104	2.3377	61.97666
12.9	68.4	1.31	-0.9	-2.28	68.389	1.9155	5	2.23851	122.5524	0.75309	0	0.7531	89.811	1.9368	-1E-03	5	0.7118	1.2739	2.1685	81.42649
13	87	1.27	-0.96	-2.3	86.9883	1.46	5	2.08198	122.9123	0.75923	0	0.7592	113.57	1.4728	-8E-04	6	0.6547	1.2427	2.0179	101.2734
13.1	95	1.13	-0.83	-2.32	94.9898	1.1896	6	1.99472	122.2723	0.76535	0	0.7654	123.11	1.1993	-6E-04	6	0.623	1.2236	1.9339	108.9595
13.2	97.4	1.05	-0.83	-2.32	97.3898	1.0781	6	1.9589	121.7959	0.77144	0	0.7714	125.24	1.0868	-6E-04	6	0.6104	1.2127	1.9001	110.7368
13.3	98.9	1.11	-0.88	-2.34	98.8892	1.1225	6	1.96507	122.2397	0.77755	0	0.7776	126.18	1.1314	-7E-04	6	0.6137	1.2081	1.908	112.0213
13.4	97.7	1.27	-0.87	-2.33	97.6894	1.3	6	2.01085	123.1952	0.78371	0	0.7837	123.65	1.3106	-7E-04	6	0.6318	1.2089	1.9549	110.7121
13.5	92.1	1.4	-0.85	-2.33	92.0896	1.5203	5	2.07539	123.7643	0.7899	0	0.7899	115.58	1.5334	-7E-04	6	0.6569	1.2117	2.02	104.5542
13.6	83.5	1.49	-0.9	-2.34	83.489	1.7847	5	2.15395	123.9811	0.7961	0	0.7961	103.87	1.8019	-8E-04	5	0.6872	1.2159	2.0986	95.02763
13.7	85.9	1.46	-0.84	-2.34	85.8897	1.6999	5	2.13052	123.9014	0.80229	0	0.8023	106.06	1.7159	-7E-04	5	0.6793	1.2069	2.0772	97.04844
13.8	94.7	1.42	-0.94	-2.36	94.6885	1.4997	5	2.06248	123.936	0.80849	0	0.8085	116.12	1.5126	-7E-04	6	0.6548	1.1927	2.0121	105.8182
13.9	91.8	1.37	-0.98	-2.36	91.788	1.4926	5	2.07106	123.5978	0.81467	0	0.8147	111.67	1.5059	-8E-04	6	0.6588	1.188	2.0218	102.1389

14	79.3	1.26	-0.93	-2.37	79.2886	1.5891	5	2.13652	122.6284	0.8208	0	0.8208	95.599	1.6058	-9E-04	5	0.6843	1.1898	2.0872	88.23383
14.1	62.8	1.2	-0.85	-2.38	62.7896	1.9111	5	2.2655	121.7023	0.82688	0	0.8269	74.935	1.9367	-1E-03	5	0.7334	1.1982	2.2154	70.16757
14.2	49.2	1	-0.97	-2.38	49.1881	2.033	5	2.36322	119.7728	0.83287	0	0.8329	58.058	2.068	-0.001	5	0.7709	1.2026	2.3132	54.96003
14.3	35.6	1.06	-0.98	-2.4	35.588	2.9785	4	2.57794	119.4098	0.83884	0	0.8388	41.425	3.0504	-0.002	4	0.8531	1.2191	2.5284	40.0355
14.4	27.7	1.03	-0.98	-2.39	27.688	3.72	4	2.72355	118.5876	0.84477	0	0.8448	31.776	3.8371	-0.003	4	0.9096	1.2273	2.6762	31.13551
14.5	24.5	0.93	-0.98	-2.38	24.488	3.7978	4	2.76979	117.5407	0.85065	0	0.8507	27.787	3.9345	-0.003	4	0.9285	1.2246	2.7252	27.35743
14.6	22.8	0.82	-0.9	-2.39	22.789	3.5982	4	2.77857	116.4443	0.85647	0	0.8565	25.608	3.7387	-0.003	4	0.9332	1.2181	2.7367	25.24886
14.7	21.5	0.73	-0.76	-2.4	21.4907	3.3968	4	2.78239	115.4505	0.86224	0	0.8622	23.924	3.5388	-0.003	4	0.936	1.2112	2.7433	23.61267
14.8	20.6	0.65	-0.96	-2.41	20.5883	3.1571	4	2.77711	114.4966	0.86797	0	0.868	22.72	3.2961	-0.004	4	0.9353	1.2035	2.7407	22.43055
14.9	19.8	0.58	-1.62	-2.42	19.7802	2.9322	4	2.77113	113.5652	0.87365	0	0.8737	21.641	3.0677	-0.006	4	0.9343	1.196	2.7375	21.37022
15	20	0.56	-1.69	-2.42	19.9793	2.8029	4	2.75578	113.3329	0.87931	0	0.8793	21.721	2.9319	-0.006	4	0.9295	1.1877	2.7241	21.4398
15.1	21.2	0.57	-1.38	-2.44	21.1831	2.6908	4	2.72483	113.6051	0.88499	0	0.885	22.936	2.8081	-0.005	4	0.9185	1.1783	2.6945	22.60418
15.2	21.6	0.59	-1.21	-2.46	21.5852	2.7334	4	2.72247	113.9033	0.89069	0	0.8907	23.234	2.851	-0.004	4	0.9185	1.1714	2.694	22.91052
15.3	22.4	0.58	-1.15	-2.48	22.3859	2.5909	4	2.69579	113.8671	0.89638	0	0.8964	23.974	2.699	-0.004	4	0.9093	1.1628	2.6689	23.61546
15.4	23.5	0.58	-1.18	-2.48	23.4856	2.4696	4	2.66661	113.984	0.90208	0	0.9021	25.035	2.5683	-0.004	4	0.899	1.1542	2.6412	24.63449
15.5	25.7	0.65	-1.21	-2.49	25.6852	2.5306	4	2.64225	115.0361	0.90783	0	0.9078	27.293	2.6234	-0.004	4	0.8903	1.1461	2.6177	26.83804
15.6	29.1	0.75	-1.27	-2.51	29.0845	2.5787	4	2.60498	116.3863	0.91365	0	0.9137	30.833	2.6623	-0.003	4	0.8766	1.1373	2.5812	30.27985
15.7	30.9	0.84	-1.33	-2.52	30.8837	2.7199	4	2.59938	117.3619	0.91952	0	0.9195	32.587	2.8034	-0.003	4	0.8753	1.1308	2.577	32.02126
15.8	28.4	0.87	-1.3	-2.52	28.3841	3.0651	4	2.66073	117.4128	0.92539	0	0.9254	29.672	3.1684	-0.003	4	0.9	1.1282	2.6411	29.27747
15.9	24.7	0.88	-1.38	-2.52	24.6831	3.5652	4	2.74941	117.1557	0.93125	0	0.9313	25.505	3.705	-0.004	4	0.9355	1.1269	2.7335	25.29607
16	21.6	0.85	-1.04	-2.54	21.5873	3.9375	3	2.82171	116.5751	0.93708	0	0.9371	22.037	4.1162	-0.004	3	0.9649	1.1244	2.8101	21.94313
16.1	19.3	0.81	-0.71	-2.54	19.2913	4.1988	3	2.87707	115.9481	0.94288	0	0.9429	19.46	4.4146	-0.003	3	0.988	1.1207	2.8699	19.43317
16.2	18.1	0.76	-0.71	-2.54	18.0913	4.2009	3	2.89868	115.3253	0.94864	0	0.9486	18.071	4.4334	-0.003	3	0.9979	1.1151	2.8953	18.06659
16.3	17.1	0.69	-0.56	-2.55	17.0932	4.0367	3	2.90684	114.4798	0.95437	0	0.9544	16.91	4.2754	-0.003	3	1	1.1087	2.9072	16.91046
16.4	16.2	0.62	-0.28	-2.54	16.1966	3.828	3	2.91074	113.5657	0.96004	0	0.96	15.871	4.0692	-0.001	3	1	1.1021	2.915	15.87064
16.5	15.8	0.58	-0.08	-2.54	15.799	3.6711	3	2.90803	113.0171	0.9657	0	0.9657	15.36	3.9101	-4E-04	3	1	1.0957	2.9153	15.36025
16.6	15.2	0.57	-0.08	-2.52	15.199	3.7502	3	2.92699	112.7954	0.97134	0	0.9713	14.648	4.0063	-4E-04	3	1	1.0893	2.938	14.64755
16.7	15.1	0.57	-0.59	-2.52	15.0928	3.7766	3	2.93127	112.7783	0.97697	0	0.977	14.448	4.038	-0.003	3	1	1.0831	2.9448	14.44849
16.8	15	0.56	-0.46	-2.52	14.9944	3.7347	3	2.93055	112.6328	0.98261	0	0.9826	14.26	3.9966	-0.002	3	1	1.0768	2.9465	14.2598
16.9	14.8	0.56	-0.38	-2.52	14.7954	3.785	3	2.93869	112.6003	0.98824	0	0.9882	13.971	4.0559	-0.002	3	1	1.0707	2.9574	13.97147
17	14.3	0.56	-0.3	-2.51	14.2963	3.9171	3	2.95959	112.5166	0.99386	0	0.9939	13.385	4.2098	-0.002	3	1	1.0646	2.9821	13.38462
17.1	14.1	0.52	-0.38	-2.51	14.0954	3.6892	3	2.9486	111.9398	0.99946	0	0.9995	13.103	3.9707	-0.002	3	1	1.0587	2.9737	13.10298
17.2	16.4	0.48	-0.67	-2.52	16.3918	2.9283	4	2.83595	111.7223	1.00504	0	1.005	15.31	3.1196	-0.003	3	0.9859	1.052	2.8567	15.29843
17.3	25.1	0.37	-0.61	-2.5	25.0925	1.4745	5	2.51343	110.8563	1.01059	0	1.0106	23.83	1.5364	-0.002	5	0.8594	1.0403	2.5239	23.67616
17.4	31.3	0.39	-5.3	-2.5	31.2351	1.2486	5	2.39427	111.7755	1.01618	0	1.0162	29.738	1.2906	-0.013	5	0.8133	1.0334	2.4023	29.51423
17.5	32.6	0.42	-2.88	-2.51	32.5648	1.2897	5	2.38698	112.4195	1.0218	0	1.0218	30.87	1.3315	-0.007	5	0.8112	1.0287	2.396	30.66718
17.6	33.3	0.44	-0.99	-2.5	33.2879	1.3218	5	2.38505	112.8134	1.02744	0	1.0274	31.399	1.3639	-0.002	5	0.8112	1.0242	2.3954	31.22504
17.7	33	0.48	-1.05	-2.5	32.9872	1.4551	5	2.41199	113.4279	1.03311	0	1.0331	30.93	1.5022	-0.002	5	0.8225	1.0199	2.4243	30.79895
17.8	32.9	0.51	-1.09	-2.5	32.8867	1.5508	5	2.42903	113.8641	1.0388	0	1.0388	30.658	1.6014	-0.002	5	0.8299	1.0154	2.4431	30.56236
17.9	33.4	0.53	-1.28	-2.5	33.3843	1.5876	5	2.42967	114.1822	1.04451	0	1.0445	30.962	1.6389	-0.003	5	0.831	1.0108	2.4452	30.89405
18	34.2	0.54	-1.85	-2.52	34.1774	1.58	5	2.42018	114.3762	1.05023	0	1.0502	31.543	1.6301	-0.004	5	0.8281	1.0062	2.4369	31.50222
18.1	35.2	0.54	-2.65	-2.52	35.1676	1.5355	5	2.40286	114.4459	1.05595	0	1.056	32.304	1.583	-0.006	5	0.8222	1.0017	2.4208	32.29239
18.2	36.6	0.53	-3.25	-2.51	36.5602	1.4497	5	2.37459	114.4038	1.06167	0	1.0617	33.436	1.493	-0.007	5	0.8121	0.9973	2.3934	33.45756
18.3	37.9	0.53	-3.69	-2.5	37.8548	1.4001	5	2.35351	114.4887	1.0674	0	1.0674	34.465	1.4407	-0.007	5	0.8047	0.993	2.3733	34.5235
18.4	38.2	0.54	-3.96	-2.5	38.1515	1.4154	5	2.3535	114.6445	1.07313	0	1.0731	34.552	1.4564	-0.008	5	0.8055	0.9887	2.3748	34.64651
18.5	36.9	0.59	-4	-2.52	36.851	1.601	5	2.39717	115.2079	1.07889	0	1.0789	33.156	1.6493	-0.008	5	0.8233	0.9841	2.4208	33.27058
18.6	32.8	0.65	-3.55	-2.52	32.7566	1.9843	5	2.4941	115.6292	1.08467	0	1.0847	29.2	2.0523	-0.008	4	0.8621	0.9789	2.522	29.2995
18.7	27.1	0.74	-2.25	-2.52	27.0725	2.7334	4	2.64509	116.1133	1.09048	0	1.0905	23.826	2.8481	-0.006	4	0.9225	0.9726	2.6796	23.88198
18.8	22.9	0.76	-1.63	-2.52	22.8801	3.3217	4	2.75515	115.898	1.09627	0	1.0963	19.871	3.4888	-0.005	4	0.9674	0.9663	2.7967	19.89378
18.9	20.6	0.68	-2.27	-2.53	20.5722	3.3054	4	2.78976	114.8249	1.10201	0	1.102	17.668	3.4925	-0.008	3	0.983	0.9608	2.8369	17.6801
19	18.4	0.61	-3.38	-2.54	18.3586	3.3227	3	2.82998	113.7523	1.1077	0	1.1077	15.574	3.536	-0.014	3	1	0.9552	2.8836	15.57363
19.1	19.6	0.58	-3.75	-2.53	19.5541	2.9661	4	2.77813	113.5372	1.11338	0	1.1134	16.563	3.1452	-0.015	4	0.9812	0.9513	2.8311	16.57869
19.2	28.2	0.58	-4.26	-2.52	28.1479	2.0606	4	2.55646	114.4257	1.1191	0	1.1191	24.152	2.1459	-0.011	4	0.8929	0.9512	2.5985	24.29761
19.3	38.9	0.61	-7.22	-2.52	38.8116	1.5717	5	2.3743	115.5782	1.12488	0	1.1249	33.503	1.6186	-0.014	5	0.8213	0.951	2.4097	33.8714
19.4	52.2	0.58	-8.87	-2.5	52.0914	1.1134	5	2.18286	115.927	1.13067	0	1.1307	45.071	1.1381	-0.013	5	0.7469	0.9517	2.2137	45.83428
19.5	61.2	0.63	-10.11	-2.52	61.0763	1.0315	5	2.10736	116.9201	1.13652	0	1.1365	52.74	1.0511	-0.012	5	0.7179	0.95	2.1369	53.8142
19.6	60	0.8	-10.82	-2.52	59.8676	1.3363	5	2.1819	118.6193	1.14245	0	1.1425	51.403	1.3623	-0.013	5	0.7473	0.9443	2.2133	52.40876
19.7	55.5	0.96	-11	-2.52	55.3654	1.7339	5	2.27943	119.7627	1.14844	0	1.1484	47.209	1.7707	-0.015	5	0.7859	0.9377	2.3138	48.04474
19.8	52.1	0.98	-11.06	-2.52	51.9646	1.8859	5	2.32396	119.759	1.15443	0	1.1544	44.013	1.9288	-0.016	5	0.8041	0.9323	2.3611	44.7708
19.9	46.9	0.9	-11.28	-2.52	46.7619	1.9246	5	2.36482	118.8786	1.16037	0	1.1604	39.299	1.9736	-0.018	5	0.8214	0.927	2.4057	39.95197
20	48.7	0.8	-11.53	-2.52	48.5589	1.6475	5	2.3096	118.1087	1.16628	0	1.1663	40.636	1.688	-0.018	5	0.8009	0.925	2.351	41.43104
20.1	67	0.82	-11.4	-2.52	66.8605	1.2264	5	2.12116	119.0694	1.17223	0	1.1722	56.037	1.2483	-0.013	5	0.7275	0.9282	2.1575	57.62337
20.2	104.7	0.87	-11.67	-2.52	104.557	0.8321	6	1.86444	120.5931	1.17826	0	1.1783	87.739	0.8416	-0.008	6	0.6276	0.9347	1.8946	91.32424
20.3	134.1	0.66	-11.62	-2.56	133.958	0.4927	6	1.64409	119.1761	1.18422	0	1.1842	112.12	0.4971	-0.006	6	0.5429	0.9407	1.6716	118.0404
20.4	153.6	0.89	-11.68	-2.56	153.457	0.58	6	1.63688	121.6952	1.1903	0	1.1903	127.92	0.5845	-0.006	6	0.5403	0.9384	1.6638	135.0371
20.5	164.4	1.14	-11.68	-2.56	164.257	0.694	6	1.66204	123.6725	1.19649	0	1.1965	136.28	0.6991	-0.005	6	0.5502	0.9346	1.6892	144.0284
20.6	163.5	1.36	-8.03	-2.57	163.402	0.8323	6	1.7152	124.9509	1.20273	0	1.2027	134.86	0.8385	-0.004	6	0.5713	0.9294	1.7436	142.4734
20.7	166.1	1.51	-6.86	-2.56	166.016	0.9096	6	1.73599	125.7551	1.20902	0	1.209	136.31	0.9162	-0.003	6	0.5798	0.9256	1.7653	144.1691
20.8	166.3	1.64	-6.79	-2.58	166.217	0.9867	6	1.7598	126.3624	1.21534	0	1.2153	135.77	0.9939	-0.003	6	0.5896	0.9216	1.7902	143.7088
20.9	164.3	1.75	-6.71	-2.58	164.218	1.0657	6	1.7868	126.8079	1.22168	0	1.2217	133.42	1.0736	-0.003	6	0.6007	0.9173	1.8184	141.3023
21	165.3	1.78	-6.62	-2.58	165.219	1.0774	6	1.78823	126.9471	1.22803	0	1.228	133.54	1.0854	-0.003	6	0.6019	0.9143	1.8208	141.6971

21.1	167.4	1.76	-6.43	-2.58	167.321	1.0519	6	1.77704	126.8952	1.23437	0	1.2344	134.55	1.0597	-0.003	6	0.5982	0.9119	1.8104	143.1441
21.2	166	1.73	-6.4	-2.58	165.922	1.0427	6	1.77698	126.7489	1.24071	0	1.2407	132.73	1.0505	-0.003	6	0.599	0.9091	1.8115	141.4818
21.3	160.6	1.63	-6.33	-2.58	160.523	1.0154	6	1.77938	126.2326	1.24702	0	1.247	127.72	1.0234	-0.003	6	0.6008	0.906	1.8155	136.3821
21.4	148.4	1.45	-6.33	-2.58	148.323	0.9776	6	1.79323	125.1836	1.25328	0	1.2533	117.35	0.9859	-0.003	6	0.6072	0.9023	1.8316	125.4147
21.5	135.2	1.24	-6.27	-2.56	135.123	0.9177	6	1.80519	123.8115	1.25947	0	1.2595	106.29	0.9263	-0.003	6	0.6131	0.8987	1.8462	113.6963
21.6	126.3	1.03	-6.25	-2.56	126.224	0.816	6	1.79507	122.2876	1.26559	0	1.2656	98.735	0.8243	-0.004	6	0.6104	0.8965	1.8383	105.8687
21.7	120.8	0.88	-6.25	-2.58	120.724	0.7289	6	1.7799	121.0273	1.27164	0	1.2716	93.935	0.7367	-0.004	6	0.6056	0.8947	1.825	100.9982
21.8	119.3	0.86	-6.16	-2.58	119.225	0.7213	6	1.78145	120.8287	1.27768	0	1.2777	92.313	0.7291	-0.004	6	0.607	0.8919	1.8278	99.41389
21.9	122.8	0.83	-5.89	-2.58	122.728	0.6763	6	1.75455	120.6395	1.28371	0	1.2837	94.604	0.6834	-0.003	6	0.597	0.891	1.8013	102.2677
22	131.4	0.83	-5.94	-2.58	131.327	0.632	6	1.7134	120.8047	1.28975	0	1.2898	100.82	0.6383	-0.003	6	0.5814	0.8913	1.7598	109.5342
22.1	139.3	0.89	-6.18	-2.58	139.224	0.6393	6	1.69609	121.4578	1.29582	0	1.2958	106.44	0.6453	-0.003	6	0.5751	0.89	1.7423	116.0134
22.2	143.3	0.97	-6.18	-2.58	143.224	0.6773	6	1.70168	122.1567	1.30193	0	1.3019	109.01	0.6835	-0.003	6	0.5777	0.8871	1.7485	118.9858
22.3	141	1	-6.12	-2.59	140.925	0.7096	6	1.71975	122.3401	1.30805	0	1.3081	106.74	0.7162	-0.003	6	0.5854	0.8833	1.7679	116.5458
22.4	134.8	1	-6.04	-2.6	134.726	0.7423	6	1.74721	122.2304	1.31416	0	1.3142	101.52	0.7496	-0.003	6	0.5969	0.8787	1.7974	110.7856
22.5	130.4	0.96	-6.03	-2.58	130.326	0.7366	6	1.75645	121.8507	1.32025	0	1.3203	97.713	0.7442	-0.003	6	0.6014	0.8754	1.8084	106.7257
22.6	129.9	0.88	-5.94	-2.58	129.827	0.6778	6	1.73564	121.2047	1.32631	0	1.3263	96.886	0.6848	-0.003	6	0.5942	0.8744	1.7886	106.1894
22.7	124.5	0.9	-5.91	-2.59	124.428	0.7233	6	1.76744	121.2655	1.33238	0	1.3324	92.388	0.7311	-0.003	6	0.6074	0.8694	1.8225	101.1388
22.8	110.6	1.04	-5.81	-2.59	110.529	0.9409	6	1.87887	122.0345	1.33848	0	1.3385	81.578	0.9525	-0.004	6	0.6517	0.858	1.9381	88.53791
22.9	86.1	1.18	-5.22	-2.6	86.0361	1.3715	5	2.06764	122.3476	1.3446	0	1.3446	62.987	1.3933	-0.004	5	0.7272	0.8401	2.1349	67.24136
23	61.1	1.19	-4.9	-2.61	61.04	1.9495	5	2.28041	121.5722	1.35067	0	1.3507	44.192	1.9937	-0.006	5	0.8129	0.82	2.3594	46.25727
23.1	41.2	0.97	-4.84	-2.62	41.1408	2.3578	5	2.46403	119.1142	1.35663	0	1.3566	29.326	2.4382	-0.009	4	0.889	0.8018	2.5585	30.14596
23.2	29	0.75	-4.45	-2.62	28.9455	2.5911	4	2.6079	116.3746	1.36245	0	1.3625	20.245	2.7191	-0.012	4	0.9505	0.7864	2.7194	20.50003
23.3	23.2	0.5	-3.66	-2.62	23.1552	2.1593	4	2.63672	112.8635	1.36809	0	1.3681	15.925	2.2949	-0.012	4	0.9668	0.7801	2.7614	16.06164
23.4	21.5	0.38	-3.01	-2.62	21.4632	1.7705	4	2.61403	110.6703	1.37363	0	1.3736	14.625	1.8915	-0.011	4	0.9606	0.7783	2.7445	14.77624
23.5	21.3	0.31	-1.95	-2.62	21.2761	1.457	4	2.57066	109.1593	1.37908	0	1.3791	14.428	1.558	-0.007	4	0.9451	0.7785	2.703	14.63924
23.6	23.8	0.45	12.65	-2.62	23.9548	1.8785	4	2.58946	112.1754	1.38469	0	1.3847	16.3	1.9938	0.0404	4	0.9506	0.7744	2.7168	16.51776
23.7	33.5	0.52	44.56	-2.62	34.0454	1.5274	5	2.41296	114.0906	1.3904	0	1.3904	23.486	1.5924	0.0983	5	0.8773	0.7869	2.5235	24.28639
23.8	52.6	0.51	54.33	-2.62	53.265	0.9575	5	2.13749	115.0402	1.39615	0	1.3962	37.151	0.9833	0.0754	5	0.7661	0.8087	2.2303	39.64065
23.9	87	0.69	21.19	-2.64	87.2594	0.7908	6	1.91417	118.4559	1.40207	0	1.4021	61.236	0.8037	0.0178	6	0.675	0.827	1.9915	67.10123
24	104.4	0.89	1.61	-2.64	104.42	0.8523	6	1.87129	120.7562	1.40811	0	1.4081	73.156	0.864	0.0011	6	0.6574	0.8287	1.9445	80.67995
24.1	112.8	0.99	-2	-2.64	112.776	0.8779	6	1.85306	121.7231	1.4142	0	1.4142	78.745	0.889	-0.001	6	0.6504	0.8281	1.9252	87.15136
24.2	120.4	1.06	-4.52	-2.64	120.345	0.8808	6	1.83211	122.3814	1.42031	0	1.4203	83.731	0.8913	-0.003	6	0.6424	0.8277	1.9035	93.0279
24.3	129.2	1.14	-7.42	-2.64	129.109	0.883	6	1.80934	123.0852	1.42647	0	1.4265	89.51	0.8928	-0.004	6	0.6336	0.8276	1.8797	99.86274
24.4	143.2	1.21	-9.59	-2.64	143.083	0.8457	6	1.76319	123.7719	1.43266	0	1.4327	98.872	0.8542	-0.005	6	0.6156	0.8298	1.8316	111.0888
24.5	155.7	1.33	-10.48	-2.66	155.572	0.8549	6	1.73888	124.6679	1.43889	0	1.4389	107.12	0.8629	-0.005	6	0.6061	0.83	1.806	120.9076
24.6	167.8	1.45	-11.13	-2.65	167.664	0.8648	6	1.71803	125.4825	1.44516	0	1.4452	115.02	0.8724	-0.005	6	0.598	0.8299	1.784	130.3721
24.7	180.2	1.61	-11.6	-2.64	180.058	0.8942	6	1.70518	126.4224	1.45149	0	1.4515	123.05	0.9014	-0.005	6	0.5931	0.8291	1.7702	139.943
24.8	193.2	1.75	-11.97	-2.66	193.053	0.9065	6	1.68745	127.2024	1.45785	0	1.4579	131.42	0.9134	-0.005	6	0.5862	0.8287	1.7515	150.0594
24.9	205.8	1.87	-12.18	-2.66	205.651	0.9093	6	1.66885	127.8419	1.46424	0	1.4642	139.45	0.9158	-0.004	6	0.5791	0.8285	1.732	159.8798
25	215.7	1.95	-12.36	-2.68	215.549	0.9047	6	1.65288	128.2631	1.47065	0	1.4707	145.57	0.9109	-0.004	6	0.5732	0.828	1.7156	167.5287
25.1	217.7	2.02	-12.45	-2.7	217.548	0.9285	6	1.65815	128.5436	1.47708	0	1.4771	146.28	0.9349	-0.004	6	0.5757	0.8253	1.7216	168.5216
25.2	213.9	2.06	-12.54	-2.72	213.747	0.9638	6	1.67508	128.6441	1.48351	0	1.4835	143.08	0.9705	-0.004	6	0.5831	0.8212	1.7399	164.7312
25.3	208.7	2.06	-12.58	-2.73	208.546	0.9878	6	1.69021	128.584	1.48994	0	1.4899	138.97	0.9949	-0.004	6	0.5897	0.8172	1.7567	159.9191
25.4	204.7	2.02	-12.58	-2.73	204.546	0.9876	6	1.69599	128.3933	1.49636	0	1.4964	135.7	0.9948	-0.004	6	0.5928	0.8143	1.7639	156.2618
25.5	206	2.01	-12.65	-2.75	205.845	0.9765	6	1.69056	128.3725	1.50278	0	1.5028	135.98	0.9836	-0.004	6	0.5913	0.8127	1.7592	156.9411
25.6	207.6	1.99	-12.81	-2.77	207.443	0.9593	6	1.68271	128.3181	1.50919	0	1.5092	136.45	0.9663	-0.004	6	0.5888	0.8113	1.752	157.903
25.7	203.2	1.97	-12.84	-2.77	203.043	0.9702	6	1.69275	128.1919	1.5156	0	1.5156	132.97	0.9775	-0.005	6	0.5936	0.8079	1.7635	153.8777
25.8	196.2	1.95	-12.88	-2.77	196.042	0.9947	6	1.71114	128.0317	1.52201	0	1.522	127.81	1.0025	-0.005	6	0.6016	0.8035	1.7839	147.7219
25.9	189.3	1.92	-12.88	-2.79	189.142	1.0151	6	1.72836	127.8309	1.5284	0	1.5284	122.75	1.0234	-0.005	6	0.6093	0.7993	1.8032	141.7192
26	178.6	1.89	-12.96	-2.79	178.441	1.0592	6	1.75928	127.5736	1.53478	0	1.5348	115.27	1.0684	-0.005	6	0.6225	0.7934	1.837	132.6411
26.1	167.1	1.85	-12.81	-2.79	166.943	1.1082	6	1.79363	127.2546	1.54114	0.00312	1.538	107.54	1.1185	-0.006	6	0.6367	0.7881	1.8741	123.1926
26.2	154.4	1.83	-12.81	-2.81	154.243	1.1864	6	1.8389	126.9821	1.54749	0.00624	1.5413	99.073	1.1985	-0.006	6	0.6554	0.7815	1.9226	112.7835
26.3	140.5	1.41	-12.81	-2.81	140.343	1.0047	6	1.81898	124.844	1.55373	0.00936	1.5444	89.868	1.0159	-0.007	6	0.6492	0.7823	1.9061	102.6141
26.4	129.8	1.3	-12.76	-2.81	129.644	1.0028	6	1.84408	124.0563	1.55993	0.01248	1.5475	82.771	1.015	-0.007	6	0.6602	0.7781	1.9345	94.18315
26.5	122.4	1.2	-12.73	-2.83	122.244	0.9816	6	1.85724	123.3273	1.5661	0.0156	1.5505	77.832	0.9944	-0.008	6	0.6664	0.7752	1.9502	88.41463
26.6	106.8	0.99	-12.47	-2.83	106.647	0.9283	6	1.88718	121.5868	1.57218	0.01872	1.5535	67.64	0.9422	-0.009	6	0.68	0.7702	1.9856	76.4842
26.7	96.6	0.87	-12.13	-2.81	96.4515	0.902	6	1.91361	120.3963	1.5782	0.02184	1.5564	60.959	0.917	-0.009	6	0.6918	0.7657	2.0164	68.65607
26.8	72.8	0.9	-12.32	-2.81	72.6492	1.2388	5	2.09563	119.9531	1.5842	0.02496	1.5592	45.577	1.2665	-0.013	5	0.7661	0.743	2.2111	49.90276
26.9	60	1.01	-12.36	-2.81	59.8487	1.6876	5	2.24595	120.3241	1.59021	0.02808	1.5621	37.294	1.7337	-0.016	5	0.8277	0.7244	2.3712	39.88406
27	42.3	0.96	-12.36	-2.81	42.1487	2.2777	5	2.44631	119.0975	1.59617	0.0312	1.565	25.913	2.3673	-0.023	4	0.911	0.7001	2.5901	26.8311
27.1	29	0.86	-12.34	-2.81	28.849	2.981	4	2.64758	117.3679	1.60204	0.03432	1.5677	17.38	3.1563	-0.034	4	0.9969	0.6758	2.8153	17.40143
27.2	21.9	0.78	-12.26	-2.83	21.7499	3.5862	4	2.79326	115.9645	1.60783	0.03744	1.5704	12.826	3.8725	-0.046	3	1	0.6738	2.9745	12.82615
27.3	21	0.67	-12.21	-2.83	20.8506	3.2133	4	2.77755	114.7492	1.61357	0.04056	1.573	12.229	3.4829	-0.048	3	1	0.6727	2.9633	12.2294
27.4	21.2	0.64	-12.21	-2.82	21.0506	3.0403	4	2.75941	114.4373	1.61929	0.04368	1.5756	12.333	3.2937	-0.047	3	1	0.6716	2.946	12.33251
27.5	19.1	0.65	-12.06	-2.83	18.9524	3.4297	3	2.82761	114.2947	1.62501	0.0468	1.5782	10.979	3.7513	-0.053	3	1	0.6705	3.0201	10.97915
27.6	17.7	0.68	-12.11	-2.82	17.5518	3.8743	3	2.88669	114.4376	1.63073	0.04992	1.5808	10.071	4.2711	-0.058	3	1	0.6694	3.0839	10.07145
27.7	18	0.6	-12.03	-2.82	17.8528	3.3608	3	2.84259	113.5632	1.63641	0.05304	1.5834	10.242	3.7	-0.057	3	1	0.6683	3.041	10.24168
27.8	25.2	0.54	-11.95	-2.83	25.0537	2.1554	4	2.60868	113.6188	1.64209	0.05616	1.5859	14.762	2.3065	-0.039	4	0.9884	0.6703	2.7911	14.83164
27.9	42.6	0.54	-11.87	-2.82	42.4547	1.2719	5	2.28876	114.9052	1.64783	0.05928	1.5886	25.688	1.3233	-0.022	5	0.854	0.7068	2.4371	27.2579
28	55.8	0.56	-11.7	-2.81	55.6568	1.0062	5	2.134	115.8317	1.65363	0.0624	1.5912	33.938	1.037	-0.017	5	0.7894	0.7246	2.2682	36.98319
28.1	60.5	0.57	-11.68	-2.83	60.357	0.9444	5	2.08938	116.1589	1.65943	0.06552	1.5939	36.826	0.9711	-0.015	5	0.7712	0.7291	2.2201	40.44509

28.2	65.2	0.52	-11.68	-2.81	65.057	0.7993	6	2.02164	115.67	1.66522	0.06864	1.5966	39.705	0.8203	-0.014	5	0.7443	0.7363	2.149	44.10964
28.3	68.3	0.43	-11.76	-2.81	68.1561	0.6309	6	1.94919	114.393	1.67094	0.07176	1.5992	41.575	0.6468	-0.014	5	0.716	0.744	2.0744	46.74892
28.4	70.1	0.44	-11.96	-2.81	69.9536	0.629	6	1.93887	114.6247	1.67667	0.07488	1.6018	42.625	0.6444	-0.014	6	0.7119	0.7444	2.0634	48.03363
28.5	70.9	0.55	-12.06	-2.82	70.7524	0.7774	6	1.98464	116.2851	1.68248	0.078	1.6045	43.048	0.7963	-0.014	5	0.7297	0.738	2.1097	48.17624
28.6	72.4	0.65	-11.94	-2.83	72.2539	0.8996	6	2.01341	117.5587	1.68836	0.08112	1.6072	43.905	0.9211	-0.013	5	0.7407	0.7337	2.1383	48.93138
28.7	73.9	0.65	-11.91	-2.83	73.7542	0.8813	6	2.00095	117.6088	1.69424	0.08424	1.61	44.758	0.902	-0.013	5	0.7359	0.7343	2.1255	50.00437
28.8	73.8	0.6	-11.91	-2.83	73.6542	0.8146	6	1.98173	117.0198	1.70009	0.08736	1.6127	44.616	0.8339	-0.013	5	0.7289	0.7355	2.1067	50.01636
28.9	72.1	0.64	-11.98	-2.81	71.9534	0.8895	6	2.01201	117.4351	1.70596	0.09048	1.6155	43.484	0.9111	-0.014	5	0.7413	0.7308	2.1388	48.51498
29	73.2	0.69	-12.2	-2.83	73.0507	0.9446	6	2.02198	118.0224	1.71186	0.0936	1.6183	44.084	0.9672	-0.014	5	0.7452	0.7286	2.1487	49.12408
29.1	75.8	0.71	-12.13	-2.81	75.6515	0.9385	6	2.00809	118.3168	1.71778	0.09672	1.6211	45.608	0.9603	-0.013	5	0.7396	0.7294	2.1338	50.96648
29.2	80.2	0.6	-12.24	-2.79	80.0502	0.7495	6	1.93142	117.2229	1.72364	0.09984	1.6238	48.237	0.766	-0.013	6	0.7096	0.7379	2.0546	54.6254
29.3	86.1	0.74	-12.7	-2.79	85.9446	0.861	6	1.9413	118.9307	1.72959	0.10296	1.6266	51.773	0.8787	-0.012	6	0.7126	0.7361	2.0621	58.58444
29.4	96.2	0.81	-12.84	-2.79	96.0428	0.8434	6	1.89729	119.863	1.73558	0.10608	1.6295	57.875	0.8589	-0.011	6	0.6943	0.741	2.0136	66.04301
29.5	105.4	0.76	-10.78	-2.78	105.268	0.722	6	1.82501	119.6205	1.74156	0.1092	1.6324	63.421	0.7341	-0.009	6	0.6654	0.7494	1.9376	73.32178
29.6	105.7	0.72	-10.02	-2.77	105.577	0.682	6	1.80946	119.2321	1.74752	0.11232	1.6352	63.497	0.6934	-0.008	6	0.6597	0.7504	1.9223	73.63375
29.7	96.3	0.74	-10.8	-2.77	96.1678	0.7695	6	1.87305	119.2049	1.75348	0.11544	1.638	57.638	0.7838	-0.009	6	0.6859	0.741	1.9907	66.11848
29.8	86.7	0.81	-10.99	-2.77	86.5655	0.9357	6	1.96052	119.6096	1.75946	0.11856	1.6409	51.683	0.9551	-0.011	5	0.7215	0.7286	2.0838	58.39903
29.9	75.8	0.98	-10.86	-2.79	75.6671	1.2952	5	2.09411	120.6755	1.7655	0.12168	1.6438	44.957	1.3261	-0.012	5	0.7754	0.7106	2.225	49.63254
30	64.7	1.19	-10.91	-2.77	64.5665	1.8431	5	2.24598	121.7092	1.77158	0.1248	1.6468	38.132	1.8951	-0.015	5	0.8374	0.6905	2.386	40.97565
30.1	55.6	1.26	-10.72	-2.75	55.4688	2.2716	5	2.35563	121.757	1.77767	0.12792	1.6498	32.545	2.3468	-0.017	4	0.8826	0.6757	2.5047	34.28711
30.2	46.8	1.27	-10.88	-2.76	46.6668	2.7214	4	2.46392	121.3934	1.78374	0.13104	1.6527	27.157	2.8296	-0.02	4	0.928	0.6611	2.6237	28.04419
30.3	43.8	1.31	-11.06	-2.77	43.6646	3.0001	4	2.51378	121.4581	1.78981	0.13416	1.6557	25.292	3.1284	-0.022	4	0.9489	0.6539	2.6784	25.8777
30.4	50.2	1.22	-11.33	-2.77	50.0613	2.437	5	2.40917	121.2708	1.79588	0.13728	1.6586	29.1	2.5277	-0.02	4	0.9063	0.6654	2.5661	30.35142
30.5	56.5	1.19	-11.69	-2.76	56.3569	2.1115	5	2.32935	121.3775	1.80195	0.1404	1.6616	32.834	2.1813	-0.018	5	0.8738	0.6741	2.48	34.75802
30.6	52.5	1.28	-12	-2.76	52.3531	2.4449	5	2.39567	121.7312	1.80803	0.14352	1.6645	30.366	2.5324	-0.02	4	0.901	0.6648	2.5514	31.75879
30.7	44.7	1.3	-12.11	-2.77	44.5518	2.918	4	2.49919	121.4511	1.81411	0.14664	1.6675	25.63	3.0418	-0.024	4	0.9445	0.6508	2.6654	26.28571
30.8	38.7	1.22	-12.06	-2.77	38.5524	3.1645	4	2.56939	120.6336	1.82014	0.14976	1.6704	21.99	3.3213	-0.028	4	0.9751	0.6407	2.7457	22.24178
30.9	36.2	1.23	-12.08	-2.75	36.0521	3.4117	4	2.61289	120.5298	1.82616	0.15288	1.6733	20.454	3.5938	-0.03	4	0.9942	0.6341	2.7946	20.50927
31	45	1.33	-12.14	-2.76	44.8514	2.9654	4	2.50177	121.6344	1.83225	0.156	1.6763	25.664	3.0917	-0.024	4	0.9465	0.647	2.6697	26.30314
31.1	66.5	1.41	-12.22	-2.77	66.3504	2.1251	5	2.27865	123.0169	1.8384	0.15912	1.6793	38.417	2.1856	-0.016	5	0.8535	0.6742	2.4243	41.10606
31.2	80.2	1.44	-12.3	-2.77	80.0495	1.7989	5	2.16967	123.6287	1.84458	0.16224	1.6823	46.486	1.8413	-0.013	5	0.8081	0.6875	2.306	50.81192
31.3	90.4	1.44	-12.44	-2.76	90.2477	1.5956	5	2.09607	123.9212	1.85077	0.16536	1.6854	52.448	1.629	-0.012	5	0.7781	0.6961	2.2268	58.15555
31.4	110.9	1.49	-12.58	-2.79	110.746	1.3454	6	1.98053	124.6701	1.85701	0.16848	1.6885	64.488	1.3684	-0.01	5	0.7307	0.7107	2.1019	73.13806
31.5	129.7	1.6	-12.58	-2.79	129.546	1.2351	6	1.90546	125.5737	1.86329	0.1716	1.6917	75.477	1.2531	-0.008	6	0.6997	0.7201	2.0202	86.8992
31.6	148.7	1.64	-12.51	-2.81	148.547	1.104	6	1.82882	126.0882	1.86959	0.17472	1.6949	86.542	1.1181	-0.007	6	0.6685	0.7298	1.9378	101.1724
31.7	157.9	1.65	-12.51	-2.81	157.747	1.046	6	1.79374	126.2793	1.8759	0.17784	1.6981	91.793	1.0586	-0.007	6	0.6544	0.7338	1.9005	108.0947
31.8	164.2	1.67	-12.51	-2.83	164.047	1.018	6	1.77331	126.4629	1.88223	0.18096	1.7013	95.32	1.0298	-0.007	6	0.6463	0.7357	1.8788	112.7539
31.9	167.5	1.7	-12.44	-2.85	167.348	1.0159	6	1.76644	126.6418	1.88856	0.18408	1.7045	97.073	1.0274	-0.007	6	0.6437	0.7357	1.8716	115.0475
32	167.1	1.73	-12.43	-2.84	166.948	1.0363	6	1.7732	126.764	1.8949	0.1872	1.7077	96.652	1.0482	-0.007	6	0.6467	0.7338	1.879	114.4634
32.1	162.6	1.75	-12.41	-2.86	162.448	1.0773	6	1.79346	126.7814	1.90124	0.19032	1.7109	93.837	1.09	-0.007	6	0.6552	0.7299	1.901	110.7479
32.2	155.5	1.73	-12.37	-2.87	155.349	1.1136	6	1.81742	126.5883	1.90757	0.19344	1.7141	89.516	1.1275	-0.007	6	0.6654	0.7254	1.9274	105.1958
32.3	140.3	1.69	-12.42	-2.87	140.148	1.2059	6	1.87359	126.166	1.91387	0.19656	1.7173	80.494	1.2226	-0.008	6	0.689	0.7163	1.9888	93.58024
32.4	124.1	1.03	-12.36	-2.87	123.949	0.831	6	1.80618	122.2433	1.91999	0.19968	1.7203	70.934	0.8441	-0.009	6	0.6654	0.7237	1.9267	83.45898
32.5	108.6	1	-12.36	-2.88	108.449	0.9221	6	1.8797	121.7012	1.92607	0.2028	1.7233	61.814	0.9388	-0.01	6	0.6963	0.7121	2.0073	71.68447
32.6	92.4	1.07	-12.34	-2.89	92.249	1.1599	6	1.99733	121.8016	1.93216	0.20592	1.7262	52.32	1.1847	-0.012	5	0.7446	0.6946	2.1339	59.28552
32.7	74.2	1.14	-11.96	-2.91	74.0536	1.5394	5	2.1497	121.7295	1.93825	0.20904	1.7292	41.704	1.5808	-0.015	5	0.8076	0.6725	2.2989	45.83683
32.8	62.5	1.4	-11.64	-2.9	62.3575	2.2451	5	2.31464	122.8134	1.94439	0.21216	1.7322	34.876	2.3174	-0.017	5	0.8753	0.6496	2.4749	37.0878
32.9	45.7	1.56	-11.77	-2.89	45.5559	3.4244	4	2.53957	122.8395	1.95053	0.21528	1.7353	25.129	3.5775	-0.024	4	0.9687	0.6193	2.7207	25.52152
33	32.6	1.42	-11.94	-2.9	32.4539	4.3754	4	2.71969	121.3244	1.9566	0.2184	1.7382	17.545	4.6562	-0.035	3	1	0.6087	2.9187	17.54534
33.1	25.1	1.13	-11.95	-2.91	24.9537	4.5284	3	2.81393	119.0119	1.96255	0.22152	1.741	13.206	4.9149	-0.047	3	1	0.6078	3.0287	13.20553
33.2	23.7	0.97	-11.91	-2.92	23.5542	4.1182	3	2.80553	117.754	1.96844	0.22464	1.7438	12.379	4.4937	-0.05	3	1	0.6068	3.0263	12.37862
33.3	31.4	0.94	-11.91	-2.93	31.2542	3.0076	4	2.62344	118.214	1.97435	0.22776	1.7466	16.764	3.2104	-0.037	3	1	0.6058	2.8326	16.76406
33.4	45.1	0.92	-11.91	-2.92	44.9542	2.0465	5	2.39501	118.9432	1.98029	0.23088	1.7494	24.565	2.1408	-0.025	4	0.9158	0.631	2.5794	25.62754
33.5	54.1	0.92	-11.99	-2.92	53.9532	1.7052	5	2.28344	119.3883	1.98626	0.234	1.7523	29.657	1.7704	-0.021	5	0.8692	0.6451	2.4562	31.68029
33.6	59.5	0.9	-12.18	-2.93	59.3509	1.5164	5	2.21912	119.46	1.99224	0.23712	1.7551	32.681	1.5691	-0.019	5	0.8428	0.6528	2.3864	35.38639
33.7	62.4	0.96	-12.33	-2.92	62.2491	1.5422	5	2.20776	120.0485	1.99824	0.24024	1.758	34.272	1.5933	-0.019	5	0.8371	0.6538	2.3727	37.22704
33.8	60.5	1.16	-12.41	-2.92	60.3481	1.9222	5	2.28007	121.3576	2.00431	0.24336	1.761	33.132	1.9882	-0.019	5	0.8665	0.6432	2.4481	35.46403
33.9	57.2	1.17	-12.49	-2.93	57.0471	2.0509	5	2.31701	121.2832	2.01037	0.24648	1.7639	31.202	2.1259	-0.021	5	0.8822	0.6371	2.4892	33.13762
34	69.5	1.08	-12.45	-2.93	69.3476	1.5574	5	2.17461	121.1737	2.01643	0.2496	1.7668	38.109	1.604	-0.017	5	0.8232	0.6557	2.335	41.72475
34.1	94.9	0.98	-12.43	-2.93	94.7479	1.0343	6	1.95668	121.224	2.02249	0.25272	1.7698	52.394	1.0569	-0.012	5	0.7336	0.6857	2.0995	60.0883
34.2	108.8	0.94	-12.43	-2.93	108.648	0.8652	6	1.86176	121.2529	2.02855	0.25584	1.7727	60.145	0.8816	-0.011	6	0.6949	0.6987	1.9976	70.399
34.3	107.3	1.07	-12.5	-2.93	107.147	0.9986	6	1.90574	122.1668	2.03466	0.25896	1.7757	59.195	1.018	-0.011	6	0.7124	0.6916	2.0431	68.69822
34.4	101	1.28	-12.44	-2.93	100.848	1.2692	6	1.9936	123.3302	2.04083	0.26208	1.7788	55.549	1.2955	-0.012	5	0.7476	0.6782	2.1352	63.32952
34.5	92.6	1.54	-12.51	-2.93	92.4469	1.6658	5	2.1012	124.4712	2.04705	0.2652	1.7819	50.734	1.7035	-0.013	5	0.7909	0.6622	2.2485	56.57372
34.6	83.9	1.64	-12.51	-2.91	83.7469	1.9583	5	2.18073	124.6904	2.05329	0.26832	1.785	45.768	2.0075	-0.014	5	0.8238	0.65	2.3344	50.18507
34.7	87.6	1.67	-12.51	-2.93	87.4469	1.9097	5	2.15964	124.9285	2.05953	0.27144	1.7881	47.753	1.9558	-0.014	5	0.8152	0.652	2.3114	52.61536
34.8	98.4	1.74	-12.52	-2.94	98.2468	1.7711	5	2.10056	125.513	2.06581	0.27456	1.7913	53.695	1.8091	-0.012	5	0.7906	0.6596	2.2464	59.95304
34.9	110.3	1.77	-12.6	-2.93	110.146	1.607	5	2.03554	125.9169	2.0721	0.27768	1.7944	60.228	1.6378	-0.011	5	0.7638	0.668	2.1757	68.23054
35	123.9	1.67	-12.66	-2.96	123.745	1.3496	6	1.94644	125.7753	2.07839	0.2808	1.7976	67.683	1.3726	-0.01	5	0.7278	0.68	2.0807	78.18721
35.1	138.8	1.47	-12.66	-3.01	138.645	1.0603	6	1.83865	125.1193	2.08465	0.28392	1.8007	75.836	1.0765	-0.009	6	0.6847	0.6949	1.9672	89.67918
35.2	157.3	1.34	-12.67	-3.03	157.145	0.8527	6	1.73486	124.7472	2.09089	0.28704	1.8039	85.958	0.8642	-0.008	6	0.6429	0.7097	1.8571	103.994

35.3	177.2	1.34	-12.8	-3.04	177.043	0.7569	6	1.66177	125.038	2.09714	0.29016	1.807	96.817	0.766	-0.007	6	0.6131	0.7203	1.7784	119.0907
35.4	196.7	1.27	-12.81	-3.08	196.543	0.6462	6	1.58246	124.9003	2.10338	0.29328	1.8101	107.42	0.6532	-0.006	6	0.5812	0.732	1.6942	134.5074
35.5	210.2	1.15	-12.87	-3.1	210.042	0.5475	6	1.51414	124.3361	2.1096	0.2964	1.8132	114.68	0.5531	-0.006	6	0.5541	0.742	1.6227	145.8091
35.6	221.7	1.13	-12.77	-3.12	221.544	0.5101	6	1.47677	124.3377	2.11582	0.29952	1.8163	120.81	0.515	-0.006	6	0.5391	0.7473	1.583	154.9717
35.7	224.7	1.15	-12.73	-3.14	224.544	0.5122	6	1.47335	124.4989	2.12204	0.30264	1.8194	122.25	0.517	-0.005	6	0.5379	0.7471	1.5794	157.0474
35.8	228.9	1.2	-12.51	-3.17	228.747	0.5246	6	1.47374	124.8555	2.12828	0.30576	1.8225	124.34	0.5295	-0.005	6	0.538	0.7464	1.5794	159.8508
35.9	233.2	1.24	-12.5	-3.18	233.047	0.5321	6	1.47146	125.1409	2.13454	0.30888	1.8257	126.48	0.537	-0.005	6	0.5371	0.746	1.5767	162.8076
36	232.7	1.3	-12.44	-3.18	232.548	0.559	6	1.48605	125.4814	2.14081	0.312	1.8288	125.99	0.5642	-0.005	6	0.5431	0.7429	1.5919	161.7736
36.1	231	1.33	-12.43	-3.2	230.848	0.5761	6	1.49702	125.6305	2.1471	0.31512	1.832	124.84	0.5816	-0.005	6	0.5477	0.7403	1.6037	160.017
36.2	226.7	1.3	-12.43	-3.22	226.548	0.5738	6	1.50206	125.4177	2.15337	0.31824	1.8351	122.28	0.5793	-0.005	6	0.5503	0.7386	1.61	156.6354
36.3	218.5	1.24	-12.38	-3.22	218.348	0.5679	6	1.51133	124.982	2.15962	0.32136	1.8383	117.61	0.5736	-0.006	6	0.5548	0.7361	1.6214	150.3923
36.4	205.8	1.22	-12.36	-3.23	205.649	0.5932	6	1.54345	124.7169	2.16585	0.32448	1.8414	110.51	0.5996	-0.006	6	0.5685	0.7298	1.6569	140.3522
36.5	187	1.25	-12.32	-3.25	186.849	0.669	6	1.60895	124.6608	2.17209	0.3276	1.8445	100.12	0.6769	-0.007	6	0.5956	0.7182	1.7279	125.3518
36.6	156.5	1.42	-12.28	-3.26	156.35	0.9082	6	1.75478	125.1592	2.17834	0.33072	1.8476	83.443	0.9211	-0.008	6	0.6552	0.694	1.8839	101.1254
36.7	119	1.67	-12.28	-3.25	118.85	1.4051	6	1.97122	125.6769	2.18463	0.33384	1.8508	63.035	1.4315	-0.01	5	0.7439	0.6597	2.1164	72.74027
36.8	84.9	1.92	-12.28	-3.25	84.7497	2.2655	5	2.22142	125.8728	2.19092	0.33696	1.854	44.531	2.3256	-0.015	5	0.848	0.6215	2.3877	48.49401
36.9	55.5	2.01	-12.27	-3.26	55.3498	3.6315	4	2.49723	125.1689	2.19718	0.34008	1.8571	28.621	3.7816	-0.023	4	0.9638	0.5815	2.6925	29.21088
37	36.7	1.83	-12.21	-3.28	36.5506	5.0068	3	2.72322	123.4703	2.20335	0.3432	1.8602	18.465	5.328	-0.036	3	1	0.5688	2.9403	18.46472
37.1	29.4	1.43	-12.21	-3.26	29.2506	4.8888	3	2.78558	121.1223	2.20941	0.34632	1.8631	14.514	5.2882	-0.045	3	1	0.5679	3.0173	14.51415
37.2	22.8	1.14	-12.28	-3.26	22.6497	5.0332	3	2.8759	118.8401	2.21535	0.34944	1.8659	10.951	5.5788	-0.06	3	1	0.5671	3.1265	10.9514
37.3	21.2	0.89	-12.22	-3.28	21.0504	4.2279	3	2.85002	116.8501	2.22119	0.35256	1.8686	10.076	4.7267	-0.065	3	1	0.5663	3.1103	10.07647
37.4	20.9	0.7	-12.1	-3.28	20.7519	3.3732	4	2.79232	115.0582	2.22695	0.35568	1.8713	9.8997	3.7787	-0.066	3	1	0.5655	3.0583	9.89969
37.5	21.1	0.51	-11.96	-3.28	20.9536	2.434	4	2.70247	112.7647	2.23258	0.3588	1.8738	9.991	2.7242	-0.065	3	1	0.5647	2.9737	9.99102
37.6	28.8	0.6	-11.77	-3.29	28.6559	2.0938	4	2.55444	114.7174	2.23832	0.36192	1.8764	14.079	2.2712	-0.046	4	1	0.5639	2.806	14.07888
37.7	42.5	0.77	-11.64	-3.29	42.3575	1.8179	5	2.38265	117.4958	2.2442	0.36504	1.8792	21.346	1.9196	-0.03	4	0.9304	0.5861	2.6016	22.21736
37.8	57	0.9	-11.54	-3.28	56.8588	1.5829	5	2.24533	119.3554	2.25016	0.36816	1.882	29.016	1.6481	-0.022	5	0.8702	0.6059	2.4424	31.26835
37.9	77.5	1.09	-11.45	-3.28	77.3599	1.409	5	2.11026	121.5078	2.25624	0.37128	1.885	39.844	1.4513	-0.016	5	0.8104	0.6263	2.2868	44.45322
38	99.6	1.26	-11.47	-3.28	99.4596	1.2669	6	1.99756	123.1812	2.2624	0.3744	1.888	51.482	1.2963	-0.012	5	0.7619	0.6433	2.1589	59.09336
38.1	105.3	1.42	-11.53	-3.28	105.159	1.3503	6	1.99812	124.1918	2.26861	0.37752	1.8911	54.408	1.3801	-0.012	5	0.7612	0.6427	2.1569	62.49989
38.2	102	1.59	-11.53	-3.28	101.859	1.561	5	2.05121	124.9414	2.27485	0.38064	1.8942	52.573	1.5966	-0.012	5	0.7826	0.634	2.2127	59.66683
38.3	115.7	1.68	-11.55	-3.26	115.559	1.4538	6	1.99027	125.6521	2.28114	0.38376	1.8974	59.702	1.4831	-0.011	5	0.7569	0.6427	2.1447	68.80928
38.4	130.4	1.64	-11.74	-3.26	130.256	1.2591	6	1.9095	125.7678	2.28742	0.38688	1.9005	67.333	1.2816	-0.01	5	0.7238	0.6545	2.0573	79.15712
38.5	138.3	1.56	-11.82	-3.26	138.155	1.1292	6	1.8584	125.5454	2.2937	0.39	1.9037	71.367	1.1482	-0.009	6	0.7033	0.6616	2.0031	84.95403
38.6	140.2	1.66	-11.95	-3.25	140.054	1.1853	6	1.86861	126.0333	2.3	0.39312	1.9069	72.24	1.2051	-0.009	6	0.7073	0.6593	2.0132	85.83484
38.7	131.6	1.7	-11.98	-3.24	131.453	1.2932	6	1.9147	126.053	2.30631	0.39624	1.9101	67.614	1.3163	-0.01	5	0.7266	0.6511	2.0636	79.46465
38.8	134	1.87	-11.87	-3.24	133.855	1.397	6	1.9326	126.7945	2.31265	0.39936	1.9133	68.752	1.4216	-0.01	5	0.7334	0.6476	2.0811	80.51256
38.9	146.3	2.01	-11.94	-3.24	146.154	1.3753	6	1.90089	127.5372	2.31902	0.40248	1.9165	75.049	1.3974	-0.009	5	0.7198	0.6521	2.0449	88.64169
39	161.8	2.06	-12.03	-3.25	161.653	1.2743	6	1.84663	127.9628	2.32542	0.4056	1.9198	82.991	1.2929	-0.008	6	0.6973	0.6601	1.9854	99.39316
39.1	176.8	2.23	-12.1	-3.26	176.652	1.2624	6	1.81702	128.7594	2.33186	0.40872	1.9231	90.643	1.2793	-0.007	6	0.6845	0.6643	1.9514	109.4484
39.2	188.8	2.36	-12.17	-3.26	188.651	1.251	6	1.79466	129.3343	2.33833	0.41184	1.9265	96.711	1.2667	-0.007	6	0.6749	0.6674	1.9259	117.5089
39.3	196.5	2.36	-12.23	-3.26	196.35	1.2019	6	1.77011	129.4318	2.3448	0.41496	1.9298	100.53	1.2165	-0.007	6	0.6651	0.6705	1.8996	122.9447
39.4	199.4	2.29	-12.31	-3.26	199.249	1.1493	6	1.75153	129.2473	2.35126	0.41808	1.9332	101.85	1.163	-0.007	6	0.658	0.6726	1.8806	125.1678
39.5	200.1	2.3	-12.36	-3.26	199.949	1.1503	6	1.75077	129.2877	2.35772	0.4212	1.9365	102.03	1.164	-0.007	6	0.6579	0.6719	1.8801	125.4682
39.6	199.8	2.32	-12.36	-3.26	199.649	1.162	6	1.75444	129.3474	2.36419	0.42432	1.9399	101.7	1.176	-0.007	6	0.6597	0.6704	1.8843	124.9973
39.7	186.9	2.34	-12.35	-3.28	186.749	1.253	6	1.79817	129.2473	2.37065	0.42744	1.9432	94.883	1.2691	-0.007	6	0.6781	0.6622	1.9323	115.3869
39.8	169.9	2.34	-12.28	-3.26	169.75	1.3785	6	1.85675	129.0145	2.3771	0.43056	1.9465	85.984	1.3981	-0.008	6	0.7029	0.6515	1.9968	103.0569
39.9	152.4	2.34	-12.28	-3.28	152.25	1.537	6	1.92353	128.7491	2.38354	0.43368	1.9499	76.86	1.5614	-0.009	5	0.7311	0.6396	2.0705	90.59127
40	143.6	2.25	-12.22	-3.28	143.45	1.5685	6	1.94766	128.317	2.38996	0.4368	1.9532	72.222	1.5951	-0.009	5	0.742	0.6346	2.0986	84.59837
40.1	139.7	2.23	-12.21	-3.27	139.551	1.598	6	1.96176	128.1844	2.39637	0.43992	1.9565	70.104	1.6259	-0.01	5	0.7483	0.6313	2.1148	81.83319
40.2	143.8	2.08	-12.21	-3.26	143.651	1.448	6	1.92215	127.7455	2.40275	0.44304	1.9597	72.076	1.4726	-0.009	5	0.7328	0.6366	2.0738	84.97736
40.3	146.4	1.94	-12.21	-3.27	146.251	1.3265	6	1.88951	127.2794	2.40912	0.44616	1.963	73.278	1.3487	-0.009	5	0.7203	0.6408	2.0404	87.107
40.4	143	1.93	-12.21	-3.28	142.851	1.3511	6	1.90236	127.1842	2.41548	0.44928	1.9662	71.425	1.3743	-0.009	5	0.726	0.6377	2.0551	84.63984
40.5	140.6	1.96	-12.21	-3.28	140.451	1.3955	6	1.91753	127.2558	2.42184	0.4524	1.9694	70.085	1.42	-0.01	5	0.7326	0.6344	2.0718	82.75379
40.6	139.1	1.88	-12.21	-3.29	138.951	1.353	6	1.91129	126.9247	2.42819	0.45552	1.9727	69.207	1.3771	-0.01	5	0.7307	0.6343	2.0666	81.84555
40.7	132.9	1.79	-12.21	-3.3	132.751	1.3484	6	1.92432	126.4544	2.43451	0.45864	1.9759	65.954	1.3736	-0.01	5	0.7371	0.6311	2.0829	77.72394
40.8	120.7	1.69	-12.21	-3.31	120.551	1.4019	6	1.96609	125.7986	2.4408	0.46176	1.979	59.68	1.4309	-0.011	5	0.7556	0.6231	2.1311	69.54921
40.9	103.6	1.61	-12.21	-3.32	103.451	1.5563	5	2.04544	125.0707	2.44705	0.46488	1.9822	50.956	1.594	-0.013	5	0.7899	0.6091	2.2209	58.13861
41	88.4	1.55	-12.21	-3.33	88.2506	1.7564	5	2.13165	124.4052	2.45327	0.468	1.9853	43.217	1.8066	-0.016	5	0.8272	0.5942	2.3184	48.18121
41.1	79.2	1.48	-12.19	-3.34	79.0508	1.8722	5	2.18548	123.7986	2.45946	0.47112	1.9883	38.52	1.9323	-0.018	5	0.851	0.5846	2.3805	42.31645
41.2	70.6	1.39	-12.13	-3.34	70.4515	1.973	5	2.23764	123.0586	2.46562	0.47424	1.9914	34.14	2.0445	-0.02	5	0.8752	0.575	2.4417	36.94424
41.3	61.5	1.35	-12.15	-3.34	61.3513	2.2004	5	2.31393	122.5076	2.47174	0.47736	1.9944	29.523	2.2928	-0.023	4	0.9084	0.5623	2.5292	31.28697
41.4	50.7	1.38	-12.28	-3.36	50.5497	2.73	5	2.43924	122.1961	2.47785	0.48048	1.9974	24.068	2.8707	-0.028	4	0.9623	0.5426	2.671	24.65132
41.5	38.5	1.33	-12.29	-3.36	38.3496	3.4681	4	2.59788	121.2524	2.48391	0.4836	2.0003	17.93	3.7083	-0.038	3	1	0.529	2.8485	17.93001
41.6	31	1.29	-12.35	-3.36	30.8488	4.1817	4	2.72246	120.4981	2.48994	0.48672	2.0032	14.157	4.5488	-0.049	3	1	0.5282	2.984	14.15667
41.7	25.4	1.25	-12.36	-3.36	25.2487	4.9508	3	2.83613	119.7791	2.49593	0.48984	2.0061	11.342	5.4938	-0.061	3	1	0.5275	3.1104	11.34187
41.8	25.8	1.17	-12.08	-3.36	25.6521	4.561	3	2.8071	119.3338	2.50189	0.49296	2.0089	11.524	5.0539	-0.059	3	1	0.5267	3.0823	11.52364
41.9	29.3	1.05	-11.91	-3.36	29.1542	3.6015	4	2.69743	118.8541	2.50784	0.49608	2.0118	13.245	3.9405	-0.051	3	1	0.526	2.968	13.24533
42	38.4	0.95	-11.93	-3.36	38.254	2.4834	4	2.50271	118.7844	2.51378	0.4992	2.0146	17.741	2.6581	-0.038	4	0.9981	0.5259	2.7632	17.76213
42.1	48.4	0.88	-12	-3.36	48.2531	1.8237	5	2.33944	118.7907	2.51972	0.50232	2.0174	22.67	1.9242	-0.03	4	0.9283	0.5493	2.5787	23.74307
42.2	57.6	0.85	-12.08	-3.36	57.4521	1.4795	5	2.22338	118.9625	2.52566	0.50544	2.0202	27.188	1.5475	-0.025	5	0.8791	0.5664	2.4482	29.39977
42.3	61.9	0.94	-12.15	-3.36	61.7513	1.5222	5	2.20685	119.8749	2.53166	0.50856	2.0231	29.272	1.5873	-0.023	5	0.8701	0.5689	2.4264	31.84235

42.4	62.3	1.32	-12.21	-3.36	62.1506	2.1239	5	2.29941	122.3748	2.53778	0.51168	2.0261	29.422	2.2143	-0.023	4	0.9065	0.555	2.52	31.26562
42.5	52.5	1.62	-12.22	-3.36	52.3504	3.0945	4	2.46555	123.4547	2.54395	0.5148	2.0292	24.546	3.2526	-0.028	4	0.9753	0.5299	2.7015	24.94319
42.6	43.7	1.62	-12.28	-3.36	43.5497	3.7199	4	2.57857	123.0058	2.5501	0.51792	2.0322	20.175	3.9513	-0.034	3	1	0.5207	2.8264	20.17518
42.7	39.2	1.57	-12.28	-3.36	39.0497	4.0205	4	2.63611	122.5104	2.55623	0.52104	2.0352	17.931	4.3021	-0.039	3	1	0.5199	2.8894	17.93128
42.8	48.7	1.55	-12.21	-3.38	48.5506	3.1926	4	2.49855	122.9477	2.56237	0.52416	2.0382	22.563	3.3704	-0.031	4	0.9921	0.5218	2.7432	22.67991
42.9	77.9	1.5	-12.21	-3.38	77.7506	1.9293	5	2.19965	123.8563	2.56857	0.52728	2.0413	36.831	1.9952	-0.019	5	0.8631	0.5671	2.4057	40.29699
43	107.6	1.58	-12.28	-3.38	107.45	1.4705	6	2.01652	125.0256	2.57482	0.5304	2.0444	51.298	1.5066	-0.013	5	0.7848	0.5964	2.1997	59.1089
43.1	120.1	1.63	-12.35	-3.38	119.949	1.3589	6	1.95828	125.5219	2.58109	0.53352	2.0476	57.32	1.3888	-0.012	5	0.7601	0.6054	2.1345	67.15605
43.2	126	1.67	-12.36	-3.39	125.849	1.327	6	1.93609	125.8164	2.58738	0.53664	2.0507	60.106	1.3549	-0.012	5	0.7508	0.6085	2.1096	70.88173
43.3	132.4	1.72	-12.36	-3.38	132.249	1.3006	6	1.91453	126.1533	2.59369	0.53976	2.0539	63.125	1.3266	-0.011	5	0.7417	0.6114	2.0852	74.9232
43.4	134.9	1.8	-12.36	-3.39	134.749	1.3358	6	1.91684	126.5316	2.60002	0.54288	2.0571	64.239	1.3621	-0.011	5	0.7425	0.6104	2.0869	76.23629
43.5	135.7	1.87	-12.36	-3.4	135.549	1.3796	6	1.92487	126.8252	2.60636	0.546	2.0604	64.524	1.4066	-0.011	5	0.7457	0.6084	2.0951	76.43771
43.6	137.7	1.97	-12.36	-3.41	137.549	1.4322	6	1.93193	127.2421	2.61272	0.54912	2.0636	65.389	1.46	-0.011	5	0.7484	0.6066	2.1018	77.3534
43.7	143.7	2.06	-12.36	-3.42	143.549	1.4351	6	1.91957	127.6731	2.6191	0.55224	2.0669	68.185	1.4617	-0.01	5	0.743	0.6081	2.0872	80.98664
43.8	154.2	2.09	-12.36	-3.42	154.049	1.3567	6	1.88073	127.9511	2.6255	0.55536	2.0701	73.146	1.3802	-0.01	5	0.7268	0.614	2.0442	87.86608
43.9	165.2	2.1	-12.36	-3.43	165.049	1.2724	6	1.83987	128.1542	2.63191	0.55848	2.0734	78.332	1.293	-0.009	6	0.7099	0.6203	1.9993	95.21614
44	170.5	2.15	-12.41	-3.44	170.348	1.2621	6	1.82783	128.4035	2.63833	0.5616	2.0767	80.757	1.282	-0.009	6	0.7048	0.6217	1.9857	98.54078
44.1	172	2.19	-12.43	-3.45	171.848	1.2744	6	1.82824	128.5597	2.64476	0.56472	2.08	81.346	1.2943	-0.009	6	0.7051	0.6209	1.986	99.28734
44.2	173.1	2.2	-12.39	-3.46	172.948	1.2721	6	1.82576	128.6086	2.65119	0.56784	2.0834	81.742	1.2919	-0.009	6	0.7044	0.6205	1.9836	99.86937
44.3	174.6	2.22	-12.31	-3.47	174.449	1.2726	6	1.82331	128.6959	2.65762	0.57096	2.0867	82.328	1.2923	-0.008	6	0.7036	0.6202	1.9811	100.6884
44.4	176.1	2.24	-12.32	-3.47	175.949	1.2731	6	1.82088	128.7824	2.66406	0.57408	2.09	82.912	1.2927	-0.008	6	0.7028	0.6198	1.9786	101.5052
44.5	177.8	2	-12.36	-3.47	177.649	1.1258	6	1.77949	127.9767	2.67046	0.5772	2.0933	83.591	1.143	-0.008	6	0.687	0.6258	1.9367	103.4931
44.6	179.9	2.09	-12.36	-3.48	179.749	1.1627	6	1.78598	128.3274	2.67688	0.58032	2.0966	84.458	1.1803	-0.008	6	0.6895	0.6241	1.943	104.436
44.7	179.8	2.19	-12.32	-3.48	179.649	1.219	6	1.80098	128.668	2.68331	0.58344	2.0999	84.275	1.2375	-0.008	6	0.6956	0.6208	1.9586	103.8247
44.8	175.8	2.23	-12.17	-3.5	175.651	1.2696	6	1.82051	128.7456	2.68975	0.58656	2.1032	82.238	1.2893	-0.008	6	0.704	0.6166	1.9801	100.7841
44.9	169.3	2.18	-12.01	-3.5	169.153	1.2888	6	1.83651	128.4877	2.69617	0.58968	2.1065	79.021	1.3097	-0.009	6	0.7113	0.6128	1.999	96.39741
45	162.4	2.15	-12.06	-3.5	162.252	1.3251	6	1.85773	128.2847	2.70259	0.5928	2.1098	75.624	1.3475	-0.009	6	0.7208	0.6081	2.0234	91.69394
45.1	153.8	2.11	-12.08	-3.5	153.652	1.3732	6	1.88529	128.0145	2.70899	0.59592	2.1131	71.433	1.3979	-0.01	5	0.733	0.6023	2.0551	85.92136
45.2	142.2	2.02	-12.13	-3.51	142.052	1.422	6	1.91991	127.5041	2.71536	0.59904	2.1163	65.839	1.4497	-0.011	5	0.7485	0.5952	2.0955	78.3761
45.3	128.2	1.98	-12.13	-3.52	128.052	1.5463	6	1.97743	127.1046	2.72172	0.60216	2.1196	59.13	1.5798	-0.012	5	0.7736	0.5843	2.1608	69.20435
45.4	113.6	2.05	-12.13	-3.53	113.452	1.8069	5	2.06256	127.0636	2.72807	0.60528	2.1228	52.159	1.8515	-0.013	5	0.8097	0.5691	2.2552	59.5502
45.5	95.4	2.19	-12.13	-3.53	95.2515	2.2992	5	2.19057	127.1205	2.73443	0.6084	2.126	43.516	2.3671	-0.016	5	0.8638	0.5473	2.3971	47.85408
45.6	75.5	2.12	-12.15	-3.53	75.3513	2.8135	5	2.32433	126.3112	2.74074	0.61152	2.1292	34.102	2.9197	-0.02	4	0.9227	0.5245	2.5501	35.99533
45.7	64.7	1.94	-12.19	-3.54	64.5508	3.0054	5	2.39183	125.2847	2.74701	0.61464	2.1324	28.984	3.139	-0.024	4	0.9535	0.5127	2.631	29.9435
45.8	69	1.7	-12.13	-3.55	68.8515	2.4691	5	2.31185	124.4757	2.75323	0.61776	2.1355	30.953	2.5719	-0.023	4	0.9214	0.5236	2.5458	32.70811
45.9	86.9	1.48	-12.13	-3.55	86.7515	1.706	5	2.12842	124.0253	2.75943	0.62088	2.1386	39.275	1.7621	-0.018	5	0.844	0.5522	2.3434	43.83186
46	95.9	1.39	-12.15	-3.55	95.7513	1.4517	5	2.04937	123.807	2.76562	0.624	2.1416	43.418	1.4949	-0.016	5	0.8112	0.5644	2.257	49.59933
46.1	94.8	1.33	-12.21	-3.55	94.6506	1.4052	5	2.04359	123.4559	2.7718	0.62712	2.1447	42.84	1.4476	-0.016	5	0.8097	0.5644	2.2525	49.00617
46.2	85.2	1.24	-12.28	-3.56	85.0497	1.458	5	2.08891	122.6824	2.77793	0.63024	2.1477	38.307	1.5072	-0.018	5	0.8304	0.5555	2.3066	43.19245
46.3	71.5	1.21	-12.28	-3.57	71.3497	1.6959	5	2.18954	122.0748	2.78403	0.63336	2.1507	31.881	1.7647	-0.022	5	0.8746	0.5377	2.4223	34.8458
46.4	59	1.34	-12.28	-3.55	58.8497	2.277	5	2.3373	122.3517	2.79015	0.63648	2.1537	26.03	2.3903	-0.027	4	0.9383	0.5133	2.5881	27.19613
46.5	49.3	1.47	-12.28	-3.55	49.1497	2.9909	4	2.47519	122.5899	2.79628	0.6396	2.1567	21.493	3.1713	-0.033	4	0.9976	0.4915	2.7439	21.53006
46.6	37.4	1.45	-12.28	-3.55	37.2497	3.8927	4	2.6413	121.8135	2.80237	0.64272	2.1597	15.95	4.2093	-0.044	3	1	0.4899	2.9226	15.95041
46.7	29.7	1.35	-12.28	-3.56	29.5497	4.5686	3	2.76226	120.7258	2.80841	0.64584	2.1626	12.366	5.0484	-0.057	3	1	0.4893	3.0582	12.36553
46.8	25.4	1.24	-12.28	-3.57	25.2497	4.911	3	2.83375	119.7204	2.81439	0.64896	2.1654	10.361	5.527	-0.068	3	1	0.4886	3.1427	10.36065
46.9	24.4	1.28	-12.21	-3.55	24.2506	5.2782	3	2.86785	119.8542	2.82039	0.65208	2.1683	9.8834	5.9729	-0.071	3	1	0.488	3.1798	9.88337
47	33.4	1.5	-12.13	-3.57	33.2515	4.5111	4	2.72113	121.7846	2.82648	0.6552	2.1713	14.013	4.9302	-0.05	3	1	0.4873	3.0096	14.01253
47.1	53.7	1.81	-12.13	-3.57	53.5515	3.3799	4	2.48527	124.3215	2.83269	0.65832	2.1744	23.326	3.5687	-0.03	4	1	0.4866	2.7497	23.32575
47.2	76.5	2.01	-12.13	-3.57	76.3515	2.6326	5	2.29966	125.9535	2.83899	0.66144	2.1776	33.759	2.7342	-0.021	4	0.9186	0.5153	2.5331	35.80161
47.3	107.8	2.11	-12.13	-3.57	107.652	1.96	5	2.10378	127.1467	2.84535	0.66456	2.1808	48.059	2.0132	-0.015	5	0.8332	0.5474	2.3099	54.21983
47.4	185.3	2.13	-12.06	-3.55	185.152	1.1504	6	1.77373	128.5383	2.85177	0.66768	2.1841	83.467	1.1684	-0.008	6	0.6927	0.6053	1.9405	104.2853
47.5	232.2	2.1	-12.14	-3.55	232.051	0.905	6	1.63064	128.9852	2.85822	0.6708	2.1874	104.78	0.9163	-0.007	6	0.6326	0.6316	1.7822	136.815
47.6	259	2.06	-12.19	-3.55	258.851	0.7958	6	1.55751	129.1111	2.86468	0.67392	2.1908	116.85	0.8047	-0.006	6	0.6023	0.6451	1.7021	156.0731
47.7	276.4	2.16	-12.13	-3.56	276.252	0.7819	6	1.53244	129.6166	2.87116	0.67704	2.1941	124.6	0.7901	-0.006	6	0.5914	0.6496	1.6732	167.8469
47.8	282.8	2.39	-12.13	-3.57	282.652	0.8456	6	1.5506	130.4128	2.87768	0.68016	2.1975	127.31	0.8543	-0.006	6	0.5982	0.6459	1.6905	170.7703
47.9	288.1	2.53	-12.13	-3.57	287.952	0.8786	6	1.55759	130.8747	2.88422	0.68328	2.2009	129.52	0.8875	-0.005	6	0.6007	0.6441	1.6968	173.5138
48	297.7	2.57	-12.13	-3.57	297.552	0.8637	6	1.54259	131.0694	2.89078	0.6864	2.2044	133.67	0.8722	-0.005	6	0.5945	0.6464	1.68	180.0054
48.1	300.9	2.58	-12.13	-3.57	300.752	0.8579	6	1.53729	131.1239	2.89733	0.68952	2.2078	134.91	0.8662	-0.005	6	0.5925	0.6467	1.6744	182.0523
48.2	300.9	2.61	-12.11	-3.57	300.752	0.8678	6	1.54106	131.2085	2.90389	0.69264	2.2113	134.7	0.8763	-0.005	6	0.5943	0.6453	1.6786	181.6454
48.3	300.2	2.63	-12.06	-3.58	300.052	0.8765	6	1.54498	131.2587	2.91046	0.69576	2.2147	134.17	0.8851	-0.005	6	0.5962	0.6438	1.6831	180.7978
48.4	300.5	2.71	-12.04	-3.59	300.353	0.9023	6	1.55419	131.4804	2.91703	0.69888	2.2182	134.09	0.9111	-0.005	6	0.6	0.6414	1.6927	180.2977
48.5	302	2.96	-11.98	-3.59	301.853	0.9806	6	1.58032	132.1382	2.92364	0.702	2.2216	134.55	0.9902	-0.005	6	0.6102	0.636	1.7192	179.6638
48.6	309.2	3.2	-11.96	-3.6	309.054	1.0354	6	1.59202	132.7662	2.93028	0.70512	2.2252	137.57	1.0453	-0.005	6	0.6145	0.6333	1.7299	183.2294
48.7	318.4	3.36	-11.88	-3.62	318.255	1.0558	6	1.59061	133.1947	2.93694	0.70824	2.2287	141.48	1.0656	-0.005	6	0.6136	0.6331	1.7271	188.6776
48.8	321.9	3.47	-11.86	-3.63	321.755	1.0785	6	1.5949	133.4571	2.94361	0.71136	2.2323	142.82	1.0884	-0.005	6	0.6153	0.6317	1.7311	190.3394
48.9	320.9	3.54	-11.84	-3.63	320.755	1.1037	6	1.60362	133.5956	2.95029	0.71448	2.2358	142.14	1.1139	-0.005	6	0.619	0.6293	1.7405	189.0235
49	321.1	3.13	-11.75	-3.63	320.956	0.9752	6	1.56148	132.6965	2.95692	0.7176	2.2393	142.01	0.9843	-0.005	6	0.6031	0.6363	1.6983	191.2206
49.1	323.4	3.18	-11.73	-3.63	323.256	0.9837	6	1.56246	132.8299	2.96356	0.72072	2.2428	142.81	0.9928	-0.005	6	0.6036	0.6354	1.6992	192.343
49.2	325.3	3.29	-11.64	-3.63	325.158	1.0118	6	1.57037	133.093	2.97022	0.72384	2.2464	143.43	1.0212	-0.005	6	0.6068	0.6333	1.7072	192.8302
49.3	326.4	3.35	-11.46	-3.64	326.26	1.0268	6	1.57443	133.2335	2.97688	0.72696	2.2499	143.69	1.0362	-0.005	6	0.6086	0.6318	1.7115	193.0398
49.4	329.6	3.36	-11.23	-3.65	329.463	1.0198	6	1.56949	133.2791	2.98354	0.73008	2.2535	144.88	1.0292	-0.005	6	0.6068	0.6321	1.7062	195.0304

49.5	333	3.34	-11.11	-3.65	332.864	1.0034	6	1.56119	133.2605	2.99021	0.7332	2.257	146.16	1.0125	-0.005	6	0.6037	0.633	1.6976	197.3371
49.6	331.1	3.34	-11.08	-3.65	330.964	1.0092	6	1.56468	133.2465	2.99687	0.73632	2.2606	145.08	1.0184	-0.005	6	0.6055	0.6315	1.7018	195.7452
49.7	326.5	3.29	-11.03	-3.66	326.365	1.0081	6	1.56811	133.102	3.00352	0.73944	2.2641	142.82	1.0174	-0.005	6	0.6074	0.63	1.7065	192.5263
49.8	322	3.28	-10.95	-3.67	321.866	1.0191	6	1.57555	133.0459	3.01018	0.74256	2.2676	140.61	1.0287	-0.005	6	0.6109	0.6277	1.7153	189.158
49.9	318.7	0	-10.93	-3.67	318.566	0	0	0	120.9	3.01622	0.74568	2.2705	138.98	0	-0.005	0	1	0.466	0	0
50	312.8	0	-10.87	-3.67	312.667	0	0	0	120.9	3.02227	0.7488	2.2735	136.2	0	-0.005	0	1	0.4654	0	0

	CPT-2	In situ data						Basic output data											
Depth (ft)	qc (tsf)	fs (tsf)	u (psi)	Other	qt (tsf)	Rf(%)	SBT	Ic SBT	ã (pcf)	ó,v (tsf)	u0 (tsf)	ó',vo (tsf)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.1	1.6	0	-0.01	-0.48	1.59988	0	0	0	120.9	0.00605	0	0.0061	263.66	0	-5E-04	0	1	175.04	0	0
0.2	3.7	0	-0.02	-0.65	3.69976	0	0	0	120.9	0.01209	0	0.0121	305.02	0	-4E-04	0	1	87.519	0	0
0.3	7.9	0.07	-0.02	-0.25	7.89976	0.8861	4	2.84728	95.85457	0.01688	0	0.0169	466.92	0.888	-2E-04	6	0.5907	11.521	1.9302	85.8289
0.4	13.3	0.06	-0.02	-0.97	13.2998	0.4511	5	2.52677	95.99715	0.02168	0	0.0217	612.38	0.4519	-1E-04	6	0.5117	7.3099	1.743	91.7315
0.5	21.2	0.07	-0.02	-0.11	21.1998	0.3302	5	2.2906	98.26224	0.0266	0	0.0266	796.11	0.3306	-7E-05	6	0.4617	5.4777	1.6099	109.6099
0.6	30.4	0.09	-0.02	0.48	30.3998	0.2961	5	2.12715	100.9802	0.03164	0	0.0316	959.66	0.2964	-5E-05	6	0.4337	4.5822	1.5179	131.5096
0.7	37.5	0.12	-0.02	-1.11	37.4998	0.32	6	2.05285	103.5971	0.03682	0	0.0368	1017.3	0.3203	-4E-05	6	0.418	4.0697	1.4987	144.0917
0.8	39.2	0.14	-0.02	-0.64	39.1998	0.3572	6	2.05232	104.8332	0.04207	0	0.0421	930.86	0.3575	-4E-05	6	0.4266	3.9579	1.5163	146.4699
0.9	38.5	0.15	-0.02	-1.37	38.4998	0.3896	6	2.07405	105.2941	0.04733	0	0.0473	812.42	0.3901	-4E-05	6	0.4393	3.9156	1.5466	142.2963
1	37.8	0.15	-0.02	-0.74	37.7998	0.3968	5	2.0845	105.2493	0.05259	0	0.0526	717.72	0.3974	-4E-05	6	0.4514	3.8766	1.5614	138.2932
1.1	35.9	0.15	-0.02	-1.1	35.8998	0.4178	5	2.11393	105.1235	0.05785	0	0.0579	619.57	0.4185	-4E-05	6	0.4637	3.8481	1.5951	130.348
1.2	33.7	0.14	-0.02	-0.75	33.6998	0.4154	5	2.13818	104.4645	0.06307	0	0.0631	533.3	0.4162	-4E-05	6	0.4736	3.8023	1.6218	120.8734
1.3	31.5	0.13	-0.02	-0.96	31.4998	0.4127	5	2.16407	103.7576	0.06826	0	0.0683	460.46	0.4136	-5E-05	6	0.4839	3.7674	1.6491	111.9109
1.4	30.3	0.12	-0.02	-0.91	30.2998	0.396	5	2.17284	103.0772	0.07341	0	0.0734	411.72	0.397	-5E-05	6	0.4892	3.6883	1.6629	105.3618
1.5	29.8	0.11	-0.02	-0.92	29.7998	0.3691	5	2.16826	102.3999	0.07853	0	0.0785	378.45	0.3701	-5E-05	6	0.4904	3.5801	1.6659	100.5611
1.6	30.4	0.1	-0.02	-0.91	30.3998	0.329	5	2.14246	101.7512	0.08362	0	0.0836	362.54	0.3299	-5E-05	6	0.4853	3.427	1.6521	98.18708
1.7	32	0.1	-0.09	-0.94	31.9989	0.3125	5	2.11394	101.8762	0.08872	0	0.0887	359.69	0.3134	-2E-04	6	0.4802	3.2878	1.6385	99.15349
1.8	34	0.09	-0.08	-0.91	33.999	0.2647	6	2.06562	101.2532	0.09378	0	0.0938	361.55	0.2655	-2E-04	6	0.4682	3.1096	1.6063	99.64071
1.9	34.6	0.09	-0.03	-0.97	34.5996	0.2601	6	2.05603	101.2959	0.09884	0	0.0988	349.05	0.2609	-6E-05	6	0.4682	3.0339	1.6062	98.92254
2	34	0.08	-0.09	-0.96	33.9989	0.2353	6	2.05028	100.3913	0.10386	0	0.1039	326.34	0.236	-2E-04	6	0.4682	2.9647	1.6059	94.97033
2.1	32.2	0.08	-0.09	-0.97	32.1989	0.2485	6	2.07978	100.2587	0.10888	0	0.1089	294.74	0.2493	-2E-04	6	0.4795	2.9751	1.6354	90.22939
2.2	30.3	0.09	-0.09	-0.94	30.2989	0.297	5	2.12899	100.9721	0.11392	0	0.1139	264.96	0.2982	-2E-04	6	0.4948	3.0124	1.6855	85.9351
2.3	27.9	0.09	-0.13	-0.94	27.8984	0.3226	5	2.17466	100.7708	0.11896	0	0.119	233.51	0.324	-3E-04	6	0.5114	3.0577	1.7275	80.27717
2.4	25	0.1	-0.24	-0.94	24.9971	0.4001	5	2.25206	101.2739	0.12403	0	0.124	200.55	0.402	-7E-04	6	0.5388	3.1743	1.7973	74.61775
2.5	22.4	0.1	-0.35	-0.93	22.3957	0.4465	5	2.31407	101.0059	0.12908	0	0.1291	172.51	0.4491	-0.001	6	0.5605	3.252	1.8529	68.4352
2.6	20.4	0.1	-0.52	-0.9	20.3936	0.4904	5	2.36715	100.7775	0.13412	0	0.1341	151.06	0.4936	-0.002	6	0.5796	3.3107	1.9017	63.39043
2.7	18.7	0.09	-0.47	-0.91	18.6943	0.4814	5	2.39906	99.79435	0.13911	0	0.1391	133.39	0.485	-0.002	6	0.5911	3.3176	1.9309	58.17833
2.8	16.7	0.09	-0.48	-0.92	16.6941	0.5391	5	2.46323	99.51835	0.14408	0	0.1441	114.87	0.5438	-0.002	6	0.6136	3.3988	1.9889	53.16177
2.9	15	0.07	-0.54	-0.88	14.9934	0.4669	5	2.48329	97.41742	0.14895	0	0.149	99.659	0.4716	-0.003	6	0.62	3.3723	2.0051	47.31034
3	13.7	0.06	-0.54	-0.92	13.6934	0.4382	5	2.51051	96.06829	0.15376	0	0.1538	88.059	0.4431	-0.003	6	0.6297	3.3687	2.0297	43.10601
3.1	12.9	0.05	-0.54	-0.94	12.8934	0.3878	5	2.51755	94.58742	0.15849	0	0.1585	80.354	0.3926	-0.003	6	0.6328	3.325	2.0374	40.01762
3.2	12.6	0.04	-0.54	-0.93	12.5934	0.3176	5	2.50085	92.89726	0.16313	0	0.1631	76.198	0.3218	-0.003	6	0.6283	3.2373	2.0251	38.03112
3.3	12.5	0.04	-0.57	-0.93	12.493	0.3202	5	2.50518	92.87775	0.16777	0	0.1678	73.463	0.3245	-0.003	6	0.6321	3.2029	2.0342	37.30852
3.4	12.4	0.03	-0.6	-0.94	12.3927	0.2421	5	2.47615	90.75311	0.17231	0	0.1723	70.92	0.2455	-0.004	6	0.6234	3.0999	2.0109	35.80118
3.5	12.2	0.03	-0.55	-0.92	12.1933	0.246	5	2.48471	90.71354	0.17685	0	0.1769	67.948	0.2497	-0.003	6	0.6283	3.0772	2.0231	34.94635
3.6	12.8	0.03	-0.61	-0.91	12.7925	0.2345	5	2.45943	90.83056	0.18139	0	0.1814	69.526	0.2379	-0.003	6	0.6226	2.9984	2.0075	35.73633
3.7	14	0.03	-0.62	-0.92	13.9924	0.2144	5	2.41246	91.04923	0.18594	0	0.1859	74.252	0.2173	-0.003	6	0.6101	2.8887	1.974	37.69258
3.8	15.5	0.03	-0.62	-0.91	15.4924	0.1936	5	2.35953	91.2976	0.19051	0	0.1905	80.322	0.1961	-0.003	6	0.5956	2.7764	1.9354	40.15162
3.9	16.8	0.04	-0.57	-0.9	16.793	0.2382	5	2.3466	93.59919	0.19519	0	0.1952	85.036	0.241	-0.002	6	0.5978	2.7468	1.9319	43.0872
4	17.9	0.04	-0.57	-0.9	17.893	0.2236	5	2.31302	93.75393	0.19987	0	0.1999	88.522	0.2261	-0.002	6	0.5892	2.6694	1.9087	44.63634
4.1	19	0.06	-0.62	-0.9	18.9924	0.3159	5	2.32985	96.86615	0.20472	0	0.2047	91.774	0.3194	-0.002	6	0.5987	2.6734	1.9343	47.46918
4.2	20.4	0.07	-0.62	-0.88	20.3924	0.3433	5	2.31203	98.16754	0.20963	0	0.2096	96.28	0.3468	-0.002	6	0.5959	2.6239	1.9269	50.04972
4.3	21	0.08	-0.62	-0.88	20.9924	0.3811	5	2.31544	99.21532	0.21459	0	0.2146	96.827	0.385	-0.002	6	0.5997	2.6035	1.9368	51.1235
4.4	21.3	0.1	-0.55	-0.92	21.2933	0.4696	5	2.34266	100.8828	0.21963	0	0.2196	95.95	0.4745	-0.002	6	0.6119	2.617	1.9688	52.12068
4.5	21.2	0.1	-0.54	-0.91	21.1934	0.4719	5	2.34532	100.8713	0.22467	0	0.2247	93.33	0.4769	-0.002	6	0.6146	2.5917	1.9755	51.35966
4.6	20.8	0.08	-0.58	-0.91	20.7929	0.3848	5	2.32077	99.19203	0.22963	0	0.2296	89.548	0.389	-0.002	6	0.6069	2.5273	1.9545	49.11517
4.7	20.2	0.07	-0.62	-0.92	20.1924	0.3467	5	2.31747	98.1435	0.23454	0	0.2345	85.093	0.3507	-0.002	6	0.6067	2.4944	1.9535	47.04836
4.8	19.5	0.06	-0.62	-0.92	19.4924	0.3078	5	2.31565	96.92953	0.23939	0	0.2394	80.426	0.3116	-0.002	6	0.6069	2.4643	1.9534	44.8392
4.9	18.3	0.07	-0.62	-0.9	18.2924	0.3827	5	2.37224	97.90248	0.24428	0	0.2443	73.882	0.3879	-0.002	6	0.6278	2.5102	2.0084	42.8161
5	17.6	0.08	-0.62	-0.9	17.5924	0.4547	5	2.41441	98.78436	0.24922	0	0.2492	69.589	0.4613	-0.003	6	0.6442	2.5382	2.0511	41.60214
5.1	17.6	0.08	-0.62	-0.9	17.5924	0.4547	5	2.41441	98.78436	0.25416	0	0.2542	68.218	0.4614	-0.003	6	0.646	2.5126	2.0553	41.17079
5.2	18.4	0.09	-0.62	-0.92	18.3924	0.4893	5	2.40828	99.75464	0.25915	0	0.2592	69.972	0.4963	-0.002	6	0.6465	2.4831	2.0563	42.55306
5.3	20.6	0.12	-0.62	-0.94	20.5924	0.5827	5	2.39315	102.1352	0.26426	0	0.2643	76.926	0.5903	-0.002	6	0.6453	2.4478	2.0528	47.02725
5.4	22.3	0.1	-0.58	-0.93	22.2929	0.4486	5	2.31667	100.9947	0.2693	0	0.2693	81.779	0.4541	-0.002	6	0.6205	2.3376	1.987	48.65487
5.5	22.9	0.1	-0.44	-0.9	22.8946	0.4368	5	2.30161	101.0596	0.27436	0	0.2744	82.448	0.4421	-0.001	6	0.6172	2.3004	1.9777	49.17858
5.6	23.4	0.09	-0.39	-0.9	23.3952	0.3847	5	2.27278	100.3415	0.27938	0	0.2794	82.741	0.3893	-0.001	6	0.6086	2.249	1.9545	49.13314
5.7	23.1	0.08	-0.43	-0.9	23.0947	0.3464	5	2.26234	99.4481	0.28435	0	0.2844	80.22	0.3507	-0.001	6	0.606	2.2174	1.9471	47.80288
5.8	22.5	0.08	-0.44	-0.9	22.4946	0.3556	5	2.27696	99.38389	0.28932	0	0.2893	76.751	0.3603	-0.001	6	0.6124	2.2125	1.9633	46.43033
5.9	23.1	0.09	-0.41	-0.9	23.095	0.3897	5	2.28002	100.31	0.29433	0	0.2943	77.466	0.3947	-0.001	6	0.6156	2.1984	1.9714	47.37248
6	25.6	0.11	-0.47	-0.91	25.5943	0.4298	5	2.25412	102.0289	0.29943	0	0.2994	84.476	0.4349	-0.001	6	0.6098	2.1593	1.9556	51.62006
6.1	31.3	0.12	-0.54	-0.92	31.2934	0.3835	5	2.1546	103.1559	0.30459	0	0.3046	101.74	0.3872	-0.001	6	0.5788	2.056	1.8735	60.21277
6.2	32.1	0.15	-0.6	-0.92	32.0927	0.4674	5	2.17811	104.8501	0.30983	0	0.3098	102.58	0.472	-0.001	6	0.5895	2.0627	1.9012	61.95718
6.3	30.7	0.16	-0.57	-0.92	30.693	0.5213	5	2.21543	105.2136	0.31509	0	0.3151	96.409	0.5267	-0.001	6	0.6038	2.0781	1.9384	59.66208
6.4	28.8	0.17	-0.54	-0.92	28.7934	0.5904	5	2.26375	105.5014	0.32037	0	0.3204	88.876	0.5971	-0.001	6	0.6219	2.1023	1.9853	56.57236
6.5	27.6	0.17	-0.56	-0.93	27.5932	0.6161	5	2.28849	105.3975	0.32564	0	0.3256	83.735	0.6235	-0.001	6	0.6317	2.1053	2.0105	54.25338
6.6	26.9	0.15	-0.61	-0.94	26.8925	0.5578	5	2.27988	104.419	0.33086	0	0.3309	80.281	0.5647	-0.002	6	0.6295	2.0788	2.0039	52.18334
6.7	25.3	0.12	-0.54	-0.92	25.2934	0.4744	5	2.27543	102.6367	0.33599	0	0.336	74.28	0.4808	-0.002	6	0.628	2.0553	1.9995	48.47879
6.8	22.8	0.09	-0.48	-0.92	22.7941	0.3948	5	2.28737	100.278	0.34101	0	0.341	65.844	0.4008	-0.002	6	0.6319	2.0451	2.0088	43.39793

6.9	20.1	0.08	-0.42	-0.94	20.0949	0.3981	5	2.33984	99.10874	0.34596	0	0.346	57.084	0.4051	-0.002	6	0.6504	2.0691	2.057	38.61772
7	17.9	0.07	-0.39	-0.94	17.8952	0.3912	5	2.38444	97.84894	0.35085	0	0.3509	50.005	0.399	-0.002	5	0.6663	2.0866	2.0982	34.59726
7.1	16.3	0.06	-0.39	-0.94	16.2952	0.3682	5	2.41404	96.49258	0.35568	0	0.3557	44.814	0.3764	-0.002	5	0.6771	2.0921	2.126	31.51616
7.2	15.2	0.06	-0.39	-0.94	15.1952	0.3949	5	2.4527	96.32212	0.36049	0	0.3605	41.151	0.4045	-0.002	5	0.6902	2.1026	2.1647	29.47786
7.3	14.3	0.06	-0.39	-0.96	14.2952	0.4197	5	2.48658	96.1732	0.3653	0	0.3653	38.132	0.4307	-0.002	5	0.7034	2.1129	2.1984	27.81674
7.4	14.2	0.07	-0.45	-0.96	14.1945	0.4932	5	2.51404	97.28387	0.37017	0	0.3702	37.346	0.5064	-0.002	5	0.7152	2.1195	2.2284	27.6921
7.5	16.4	0.09	-0.47	-0.98	16.3943	0.549	5	2.47354	99.47414	0.37514	0	0.3751	42.702	0.5618	-0.002	5	0.704	2.0751	2.1982	31.41621
7.6	19.8	0.12	-0.51	-0.98	19.7938	0.6063	5	2.41589	102.0387	0.38024	0	0.3802	51.056	0.6181	-0.002	5	0.6871	2.0203	2.1532	37.06677
7.7	23.5	0.16	-0.43	-0.98	23.4947	0.681	5	2.37036	104.5617	0.38547	0	0.3855	59.951	0.6924	-0.001	5	0.6745	1.9761	2.1193	43.15866
7.8	27	0.19	-0.24	-0.99	26.9971	0.7038	5	2.32299	106.1581	0.39078	0	0.3908	68.085	0.7141	-7E-04	5	0.6606	1.931	2.082	48.55615
7.9	29.2	0.23	-0.24	-1	29.1971	0.7878	5	2.31602	107.7471	0.39617	0	0.3962	72.699	0.7986	-6E-04	5	0.6609	1.9141	2.0816	52.09891
8	30.2	0.25	-0.24	-0.99	30.1971	0.8279	5	2.31375	108.4393	0.40159	0	0.4016	74.194	0.8391	-6E-04	5	0.662	1.8991	2.0838	53.47564
8.1	33.3	0.25	-0.34	-1	33.2958	0.7508	5	2.25601	108.6776	0.40702	0	0.407	80.803	0.7601	-7E-04	6	0.6433	1.849	2.0342	57.47019
8.2	33	0.25	-0.51	-1	32.9938	0.7577	5	2.26139	108.6554	0.41246	0	0.4125	78.994	0.7673	-0.001	6	0.6466	1.8388	2.0419	56.62064
8.3	30.1	0.23	-0.62	-1.01	30.0924	0.7643	5	2.29821	107.8208	0.41785	0	0.4179	71.018	0.7751	-0.002	5	0.6602	1.8467	2.0769	51.79057
8.4	27	0.19	-0.62	-1.02	26.9924	0.7039	5	2.32309	106.1577	0.42315	0	0.4232	62.789	0.7151	-0.002	5	0.6691	1.8464	2.0995	46.3632
8.5	24.8	0.17	-0.67	-1.01	24.7918	0.6857	5	2.35082	105.1364	0.42841	0	0.4284	56.869	0.6978	-0.002	5	0.6795	1.8486	2.1262	42.56388
8.6	24	0.16	-0.83	-1.02	23.9898	0.667	5	2.35823	104.6126	0.43364	0	0.4336	54.322	0.6792	-0.003	5	0.6832	1.8393	2.135	40.94782
8.7	22.8	0.17	-0.77	-1	22.7906	0.7459	5	2.39996	104.9311	0.43889	0	0.4389	50.928	0.7606	-0.002	5	0.6995	1.8507	2.1769	39.09362
8.8	20.3	0.17	-0.77	-1.02	20.2906	0.8378	5	2.46796	104.6477	0.44412	0	0.4441	44.687	0.8566	-0.003	5	0.7248	1.8762	2.2425	35.191
8.9	18.9	0.15	-0.71	-1.04	18.8913	0.794	5	2.4849	103.5576	0.4493	0	0.4493	41.046	0.8134	-0.003	5	0.7316	1.8713	2.2596	32.61542
9	17.3	0.12	-0.74	-1.03	17.2909	0.694	5	2.49384	101.709	0.45438	0	0.4544	37.054	0.7127	-0.003	5	0.7351	1.8615	2.2682	29.62018
9.1	15.9	0.08	-0.73	-1.02	15.8911	0.5034	5	2.47175	98.53629	0.45931	0	0.4593	33.598	0.5184	-0.003	5	0.727	1.8343	2.2463	26.75165
9.2	15	0.06	-0.69	-1.03	14.9916	0.4002	5	2.46018	96.2892	0.46413	0	0.4641	31.301	0.413	-0.003	5	0.7231	1.8147	2.2357	24.91475
9.3	14.7	0.05	-0.69	-1.04	14.6916	0.3403	5	2.4459	94.90585	0.46887	0	0.4689	30.334	0.3516	-0.003	5	0.7187	1.7949	2.2236	24.12677
9.4	15	0.06	-0.69	-1.04	14.9916	0.4002	5	2.46018	96.2892	0.47368	0	0.4737	30.649	0.4133	-0.003	5	0.7257	1.7918	2.2412	24.58507
9.5	16.1	0.07	-0.69	-1.04	16.0916	0.435	5	2.4437	97.58982	0.47856	0	0.4786	32.625	0.4483	-0.003	5	0.7216	1.7728	2.2298	26.15881
9.6	19	0.07	-0.69	-1.04	18.9916	0.3686	5	2.35142	97.99396	0.48346	0	0.4835	38.282	0.3782	-0.003	5	0.69	1.7167	2.1462	30.02837
9.7	20.9	0.07	-0.69	-1.06	20.8916	0.3351	5	2.29868	98.22652	0.48838	0	0.4884	41.778	0.3431	-0.002	5	0.6724	1.6818	2.0996	32.4303
9.8	22.5	0.08	-0.74	-1.06	22.4909	0.3557	5	2.27705	99.38349	0.49334	0	0.4933	44.589	0.3637	-0.002	6	0.6664	1.6628	2.0832	34.56818
9.9	25.4	0.11	-0.74	-1.06	25.3909	0.4332	5	2.25864	102.0094	0.49845	0	0.4985	49.94	0.4419	-0.002	6	0.6622	1.6462	2.0714	38.72781
10	30.5	0.14	-0.69	-1.06	30.4916	0.4591	5	2.1953	104.2205	0.50366	0	0.5037	59.54	0.4669	-0.002	6	0.6418	1.6104	2.0172	45.63928
10.1	36.8	0.18	-0.69	-1.06	36.7916	0.4892	5	2.13247	106.5174	0.50898	0	0.509	71.285	0.4961	-0.001	6	0.6217	1.5762	1.9637	54.04667
10.2	38.5	0.21	-0.69	-1.08	38.4916	0.5456	5	2.13553	107.7555	0.51437	0	0.5144	73.832	0.553	-0.001	6	0.6246	1.5691	1.9705	56.31893
10.3	39.4	0.27	-0.75	-1.06	39.3908	0.6854	5	2.17297	109.6507	0.51985	0	0.5199	74.773	0.6946	-0.001	6	0.6402	1.5761	2.0105	57.90129
10.4	39.3	0.41	-0.82	-1.06	39.29	1.0435	5	2.26822	112.701	0.52549	0	0.5255	73.769	1.0577	-0.002	5	0.6773	1.6065	2.1069	58.85421
10.5	37.9	0.57	-0.8	-1.07	37.8902	1.5044	5	2.37142	115.0233	0.53124	0	0.5312	70.324	1.5257	-0.002	5	0.717	1.639	2.2103	57.86679
10.6	35.6	0.71	-0.77	-1.07	35.5906	1.9949	5	2.46702	116.4777	0.53706	0	0.5371	65.269	2.0255	-0.002	5	0.7537	1.6671	2.3056	55.2275
10.7	33.5	0.75	-0.78	-1.06	33.4905	2.2394	4	2.51887	116.7303	0.5429	0	0.5429	60.688	2.2764	-0.002	5	0.7738	1.6759	2.3577	52.18556
10.8	34.6	0.73	-0.83	-1.08	34.5898	2.1105	5	2.49187	116.6114	0.54873	0	0.5487	62.036	2.1445	-0.002	5	0.7652	1.6528	2.3344	53.17201
10.9	42.6	0.67	-0.93	-1.09	42.5886	1.5732	5	2.3423	116.4912	0.55455	0	0.5546	75.798	1.594	-0.002	5	0.7122	1.5842	2.1945	62.93521
11	52.7	0.63	-1.08	-1.1	52.6868	1.1958	5	2.197	116.5597	0.56038	0	0.5604	93.019	1.2086	-0.001	5	0.6608	1.522	2.0592	74.98001
11.1	59.8	0.6	-0.89	-1.12	59.7891	1.0035	5	2.10792	116.5112	0.56621	0	0.5662	104.6	1.0131	-0.001	6	0.6297	1.4825	1.9769	82.9783
11.2	60	0.6	-0.61	-1.12	59.9925	1.0001	5	2.10587	116.5194	0.57203	0	0.572	103.88	1.0098	-7E-04	6	0.6301	1.4733	1.977	82.73661
11.3	60.5	0.63	-0.54	-1.12	60.4934	1.0414	5	2.11317	116.8967	0.57788	0	0.5779	103.68	1.0515	-7E-04	6	0.634	1.4674	1.9865	83.08948
11.4	64.7	0.69	-0.35	-1.13	64.6957	1.0665	5	2.09574	117.7262	0.58376	0	0.5838	109.83	1.0762	-4E-04	6	0.6292	1.4538	1.9731	88.08819
11.5	79.8	0.76	-0.62	-1.15	79.7924	0.9525	6	1.99337	118.9447	0.58971	0	0.5897	134.31	0.9596	-6E-04	6	0.5938	1.415	1.8797	105.9202
11.6	104	0.8	-0.69	-1.16	103.992	0.7693	6	1.84568	119.9661	0.59571	0	0.5957	173.57	0.7737	-5E-04	6	0.542	1.3653	1.7428	133.4117
11.7	123.9	0.84	-0.62	-1.18	123.892	0.678	6	1.75193	120.7502	0.60175	0	0.6018	204.89	0.6813	-4E-04	6	0.5095	1.3331	1.6567	155.3366
11.8	130.5	0.88	-0.62	-1.17	130.492	0.6744	6	1.73253	121.2171	0.60781	0	0.6078	213.69	0.6775	-3E-04	6	0.5036	1.322	1.6405	162.2826
11.9	131.4	0.88	-0.56	-1.17	131.393	0.6698	6	1.72835	121.2339	0.61387	0	0.6139	213.04	0.6729	-3E-04	6	0.503	1.315	1.6381	162.5306
12	127.6	0.84	-0.54	-1.18	127.593	0.6583	6	1.73403	120.8219	0.61991	0	0.6199	204.83	0.6616	-3E-04	6	0.5057	1.3104	1.6445	157.2537
12.1	120.4	0.78	-0.54	-1.16	120.393	0.6479	6	1.75019	120.138	0.62592	0	0.6259	191.35	0.6513	-3E-04	6	0.5121	1.3085	1.6605	148.1032
12.2	116.1	0.72	-0.54	-1.18	116.093	0.6202	6	1.75195	119.4637	0.63189	0	0.6319	182.72	0.6236	-3E-04	6	0.5132	1.3029	1.6628	142.1723
12.3	116.3	0.68	-0.54	-1.18	116.293	0.5847	6	1.73668	119.0496	0.63784	0	0.6378	181.32	0.588	-3E-04	6	0.5084	1.2934	1.6493	141.3786
12.4	119.8	0.68	-0.54	-1.18	119.793	0.5676	6	1.71877	119.1219	0.6438	0	0.6438	185.07	0.5707	-3E-04	6	0.5028	1.2838	1.6338	144.5597
12.5	124.8	0.73	-0.47	-1.18	124.794	0.585	6	1.71166	119.7409	0.64979	0	0.6498	191.05	0.588	-3E-04	6	0.5013	1.2769	1.6293	149.8151
12.6	129	0.76	-0.47	-1.18	128.994	0.5892	6	1.70174	120.1163	0.65579	0	0.6558	195.7	0.5922	-3E-04	6	0.4987	1.2695	1.6217	153.9729
12.7	129.6	0.8	-0.47	-1.17	129.594	0.6173	6	1.71198	120.5029	0.66182	0	0.6618	194.82	0.6205	-3E-04	6	0.5035	1.2665	1.6334	154.3256
12.8	128.3	0.81	-0.47	-1.16	128.294	0.6314	6	1.7213	120.5692	0.66785	0	0.6679	191.1	0.6347	-3E-04	6	0.5078	1.2632	1.6439	152.3659
12.9	125.8	0.81	-0.4	-1.16	125.795	0.6439	6	1.73324	120.5212	0.67387	0	0.6739	185.67	0.6474	-2E-04	6	0.513	1.2604	1.6567	149.0439
13	121.9	0.81	-0.47	-1.16	121.894	0.6645	6	1.75237	120.4444	0.67989	0	0.6799	178.28	0.6682	-3E-04	6	0.5208	1.259	1.6764	144.23
13.1	116.9	0.79	-0.45	-1.16	116.894	0.6758	6	1.77136	120.1593	0.6859	0	0.6859	169.42	0.6798	-3E-04	6	0.5284	1.2574	1.6959	138.101
13.2	113.3	0.77	-0.4	-1.16	113.295	0.6796	6	1.78376	119.8954	0.6919	0	0.6919	162.75	0.6838	-3E-04	6	0.5337	1.2545	1.709	133.5022
13.3	117.8	0.77	-0.41	-1.16	117.795	0.6537	6	1.76013	119.9904	0.6979	0	0.6979	167.79	0.6576	-3E-04	6	0.526	1.2447	1.6878	137.7451
13.4	126.7	0.78	-0.43	-1.15	126.695	0.6157	6	1.71924	120.2625	0.70391	0	0.7039	178.99	0.6191	-3E-04	6	0.5119	1.232	1.6501	146.6966
13.5	132.8	0.83	-0.39	-1.14	132.795	0.625	6	1.70665	120.8318	0.70995	0	0.71	186.05	0.6284	-2E-04	6	0.5083	1.2249	1.64	152.9025
13.6	133.3	0.89	-0.45	-1.14	133.294	0.6677	6	1.72258	121.3516	0.71602	0	0.716	185.16	0.6713	-2E-04	6	0.5152	1.2229	1.6572	153.2217
13.7	133.5	0.93	-0.35	-1.14	133.496	0.6967	6	1.7333	121.677	0.7221	0	0.7221	183.87	0.7004	-2E-04	6	0.5201	1.2198	1.6693	153.0654
13.8	135	0.94	-0.32	-1.14	134.996	0.6963	6	1.72934	121.7825	0.72819	0	0.7282	184.39	0.7001	-2E-04	6	0.5195	1.2142	1.667	154.0789
13.9	135.7	0.92	-0.24	-1.15	135.697	0.678	6	1.72046	121.6378	0.73427	0	0.7343	183.8	0.6817	-1E-04	6	0.517	1.2079	1.6596	154.0672

14	136.1	0.91	-0.24	-1.14	136.097	0.6686	6	1.71577	121.565	0.74035	0	0.7404	182.83	0.6723	-1E-04	6	0.516	1.2023	1.6564	153.8079
14.1	136.5	0.91	-0.24	-1.14	136.497	0.6667	6	1.71399	121.5721	0.74643	0	0.7464	181.87	0.6704	-1E-04	6	0.5162	1.1973	1.656	153.6139
14.2	135.4	0.78	-0.18	-1.14	135.398	0.5761	6	1.67896	120.4245	0.75245	0	0.7525	178.94	0.5793	-1E-04	6	0.5037	1.1873	1.6224	151.0869
14.3	134.5	0.75	-0.24	-1.14	134.497	0.5576	6	1.67311	120.1212	0.75846	0	0.7585	176.33	0.5608	-1E-04	6	0.5022	1.182	1.6178	149.3969
14.4	133.8	0.8	-0.26	-1.14	133.797	0.5979	6	1.69262	120.5807	0.76449	0	0.7645	174.02	0.6014	-1E-04	6	0.5103	1.1804	1.6384	148.4106
14.5	130.6	0.81	-0.32	-1.14	130.596	0.6202	6	1.7105	120.6126	0.77052	0	0.7705	168.49	0.6239	-2E-04	6	0.5178	1.1785	1.6572	144.5937
14.6	127.7	0.78	-0.17	-1.14	127.698	0.6108	6	1.71446	120.2817	0.77653	0	0.7765	163.45	0.6146	-1E-04	6	0.5199	1.1745	1.6621	140.8858
14.7	127.1	0.78	-0.17	-1.14	127.098	0.6137	6	1.71731	120.2702	0.78255	0	0.7826	161.42	0.6175	-1E-04	6	0.5218	1.1705	1.6662	139.7298
14.8	121.7	0.79	-0.17	-1.12	121.698	0.6492	6	1.74691	120.2575	0.78856	0	0.7886	153.33	0.6534	-1E-04	6	0.5336	1.1699	1.6964	133.6791
14.9	114	0.77	-0.17	-1.11	113.998	0.6755	6	1.78001	119.9105	0.79455	0	0.7946	142.47	0.6802	-1E-04	6	0.5466	1.1695	1.7298	125.1203
15	102.7	0.73	-0.17	-1.1	102.698	0.7108	6	1.82972	119.2656	0.80052	0	0.8005	127.29	0.7164	-1E-04	6	0.5658	1.171	1.7794	112.7662
15.1	88.3	0.68	-0.17	-1.1	88.2979	0.7701	6	1.90331	118.3779	0.80644	0	0.8064	108.49	0.7772	-1E-04	6	0.5938	1.175	1.8523	97.15919
15.2	72.3	0.64	-0.17	-1.11	72.2979	0.8852	6	2.00912	117.4467	0.81231	0	0.8123	88.003	0.8953	-2E-04	6	0.6341	1.1825	1.9572	79.8885
15.3	57.6	0.63	-0.18	-1.1	57.5978	1.0938	5	2.14292	116.7771	0.81815	0	0.8182	69.4	1.1096	-2E-04	5	0.685	1.1927	2.0902	63.99963
15.4	44.1	0.65	-0.23	-1.08	44.0972	1.474	5	2.3132	116.3543	0.82397	0	0.824	52.518	1.5021	-4E-04	5	0.7503	1.2064	2.2601	49.33854
15.5	33.6	0.69	-0.19	-1.09	33.5977	2.0537	5	2.49451	116.128	0.82977	0	0.8298	39.49	2.1057	-4E-04	5	0.8198	1.2205	2.4421	37.79798
15.6	26.8	0.72	-0.21	-1.09	26.7974	2.6868	4	2.64389	115.8879	0.83557	0	0.8356	31.071	2.7733	-6E-04	4	0.8777	1.2303	2.5935	30.18677
15.7	22.4	0.71	-0.24	-1.08	22.3971	3.1701	4	2.74959	115.348	0.84133	0	0.8413	25.621	3.2938	-8E-04	4	0.9194	1.2346	2.7023	25.15175
15.8	19.5	0.66	-0.21	-1.08	19.4974	3.3851	4	2.81443	114.4755	0.84706	0	0.8471	22.018	3.5388	-8E-04	4	0.9457	1.2342	2.7706	21.75335
15.9	17.9	0.59	-0.1	-1.1	17.8988	3.2963	3	2.83655	113.4465	0.85273	0	0.8527	19.99	3.4612	-4E-04	4	0.9557	1.229	2.7961	19.7996
16	17.6	0.54	-0.27	-1.1	17.5967	3.0688	4	2.8235	112.7571	0.85837	0	0.8584	19.5	3.2261	-0.001	4	0.9519	1.2204	2.7856	19.30502
16.1	18.1	0.53	-0.44	-1.11	18.0946	2.9291	4	2.80163	112.6884	0.864	0	0.864	19.943	3.0759	-0.002	4	0.9445	1.211	2.7655	19.7199
16.2	19.1	0.53	-0.72	-1.13	19.0912	2.7762	4	2.76902	112.8191	0.86964	0	0.8696	20.953	2.9086	-0.003	4	0.9329	1.2008	2.7343	20.67901
16.3	20.4	0.56	-0.72	-1.15	20.3912	2.7463	4	2.74336	113.3827	0.87531	0	0.8753	22.296	2.8695	-0.003	4	0.9239	1.1915	2.7099	21.97636
16.4	21.5	0.58	-0.62	-1.16	21.4924	2.6986	4	2.72058	113.7677	0.881	0	0.881	23.395	2.814	-0.002	4	0.916	1.1827	2.6886	23.03834
16.5	21.8	0.62	-0.6	-1.18	21.7927	2.845	4	2.7298	114.2895	0.88671	0	0.8867	23.577	2.9657	-0.002	4	0.9205	1.1767	2.6997	23.24809
16.6	21.5	0.67	-0.48	-1.21	21.4941	3.1171	4	2.75901	114.8234	0.89246	0	0.8925	23.084	3.2522	-0.002	4	0.9328	1.1721	2.7312	22.82162
16.7	21.3	0.71	-0.36	-1.23	21.2956	3.334	4	2.78038	115.225	0.89822	0	0.8982	22.709	3.4808	-0.001	4	0.9421	1.1669	2.7548	22.49423
16.8	20.9	0.74	-0.16	-1.25	20.898	3.541	4	2.8032	115.4819	0.90399	0	0.904	22.118	3.7011	-6E-04	4	0.952	1.1617	2.7801	21.95086
16.9	20.6	0.76	0.03	-1.26	20.6004	3.6893	3	2.81929	115.642	0.90977	0	0.9098	21.643	3.8597	0.0001	3	0.9593	1.1559	2.7986	21.51062
17	20.7	0.75	0.14	-1.28	20.7017	3.6229	3	2.81265	115.5571	0.91555	0	0.9156	21.611	3.7905	0.0005	3	0.9578	1.1487	2.794	21.47957
17.1	21	0.75	0.14	-1.31	21.0017	3.5711	4	2.80386	115.5922	0.92133	0	0.9213	21.795	3.735	0.0005	4	0.9554	1.1414	2.7871	21.66089
17.2	21	0.63	0.47	-1.33	21.0058	2.9992	4	2.75649	114.3169	0.92705	0	0.9271	21.659	3.1377	0.0017	4	0.9384	1.1321	2.7418	21.48321
17.3	20.5	0.65	0.34	-1.34	20.5042	3.1701	4	2.77961	114.4866	0.93277	0	0.9328	20.982	3.3212	0.0013	4	0.9485	1.127	2.7675	20.84617
17.4	20.1	0.66	0.41	-1.36	20.105	3.2828	4	2.79571	114.5504	0.9385	0	0.9385	20.423	3.4435	0.0015	4	0.9559	1.1215	2.7861	20.31466
17.5	19.8	0.66	0.84	-1.38	19.8103	3.3316	4	2.80472	114.5144	0.94422	0	0.9442	19.98	3.4984	0.0032	4	0.9605	1.1156	2.7975	19.89075
17.6	19.3	0.66	0.46	-1.4	19.3056	3.4187	3	2.82047	114.4514	0.94995	0	0.95	19.323	3.5956	0.0018	3	0.9678	1.11	2.8159	19.25581
17.7	21.6	0.67	-0.05	-1.41	21.5994	3.1019	4	2.75602	114.8353	0.95569	0	0.9557	21.601	3.2455	-2E-04	4	0.9433	1.1008	2.7511	21.47662
17.8	21.3	0.68	0.03	-1.42	21.3004	3.1924	4	2.76853	114.9097	0.96143	0	0.9614	21.155	3.3433	0.0001	4	0.9493	1.0952	2.766	21.05221
17.9	21.2	0.67	0.3	-1.43	21.2037	3.1598	4	2.76731	114.7902	0.96717	0	0.9672	20.923	3.3109	0.0011	4	0.9499	1.0891	2.7669	20.82933
18	21.8	0.64	0.62	-1.44	21.8076	2.9348	4	2.73786	114.5235	0.9729	0	0.9729	21.415	3.0718	0.0021	4	0.9395	1.0821	2.7388	21.3065
18.1	24.3	0.6	0.4	-1.46	24.3049	2.4686	4	2.65466	114.3157	0.97862	0	0.9786	23.836	2.5722	0.0012	4	0.9079	1.0735	2.6553	23.66522
18.2	28.4	0.56	0.03	-1.47	28.4004	1.9718	4	2.54192	114.1907	0.98432	0	0.9843	27.853	2.0426	8E-05	4	0.8649	1.0645	2.5416	27.58194
18.3	33.4	0.61	-0.15	-1.49	33.3982	1.8265	5	2.46561	115.2118	0.99009	0	0.9901	32.733	1.8823	-3E-04	5	0.8359	1.0571	2.4647	32.37752
18.4	33.9	0.68	-0.65	-1.49	33.892	2.0064	5	2.4853	116.0425	0.99589	0	0.9959	33.032	2.0671	-0.001	5	0.8442	1.0525	2.486	32.72162
18.5	30.4	0.74	-0.55	-1.5	30.3933	2.4348	4	2.57446	116.3955	1.00171	0	1.0017	29.341	2.5177	-0.001	4	0.8798	1.0494	2.5786	29.14889
18.6	25.9	0.77	-0.54	-1.51	25.8934	2.9737	4	2.68314	116.2954	1.00752	0	1.0075	24.7	3.0941	-0.002	4	0.9233	1.0463	2.6922	24.60748
18.7	21.8	0.76	-0.56	-1.52	21.7932	3.4873	4	2.78489	115.7793	1.01331	0	1.0133	20.507	3.6574	-0.002	3	0.9647	1.0426	2.8	20.47556
18.8	19.1	0.74	0.17	-1.54	19.1021	3.8739	3	2.85811	115.2627	1.01907	0	1.0191	17.745	4.0922	0.0007	3	0.9951	1.0381	2.8791	17.74124
18.9	17.3	0.68	0.68	-1.55	17.3083	3.9288	3	2.89522	114.4035	1.02479	0	1.0248	15.89	4.176	0.003	3	1	1.0325	2.9217	15.88956
19	16.1	0.63	0.74	-1.55	16.1091	3.9108	3	2.91836	113.6696	1.03048	0	1.0305	14.633	4.1781	0.0035	3	1	1.0268	2.9497	14.63261
19.1	14.8	0.62	0.74	-1.57	14.8091	4.1866	3	2.96538	113.3473	1.03615	0	1.0362	13.292	4.5016	0.0039	3	1	1.0212	3.0025	13.29245
19.2	14.2	0.61	0.95	-1.57	14.2116	4.2923	3	2.98611	113.1278	1.0418	0	1.0418	12.641	4.6318	0.0052	3	1	1.0157	3.0273	12.6414
19.3	14	0.59	1.08	-1.58	14.0132	4.2103	3	2.98573	112.8496	1.04744	0	1.0474	12.378	4.5504	0.006	3	1	1.0102	3.0297	12.37849
19.4	14.4	0.57	1.11	-1.59	14.4136	3.9546	3	2.95933	112.666	1.05308	0	1.0531	12.687	4.2663	0.006	3	1	1.0048	3.0039	12.68711
19.5	16.1	0.56	1.1	-1.59	16.1135	3.4754	3	2.8867	112.8084	1.05872	0	1.0587	14.22	3.7198	0.0053	3	1	0.9994	2.9283	14.21979
19.6	22.5	0.55	0.97	-1.59	22.5119	2.4432	4	2.67847	113.4921	1.06439	0	1.0644	20.15	2.5644	0.0033	4	0.9327	0.9945	2.7098	20.158
19.7	30.3	0.54	-0.49	-1.6	30.294	1.7825	5	2.49335	114.082	1.0701	0	1.0701	27.31	1.8478	-0.001	4	0.8602	0.9904	2.5186	27.35266
19.8	35.4	0.54	-2.48	-1.61	35.3696	1.5267	5	2.39939	114.4598	1.07582	0	1.0758	31.877	1.5746	-0.005	5	0.824	0.9864	2.4229	31.97021
19.9	36.5	0.64	-4.24	-1.6	36.4481	1.7559	5	2.42502	115.7762	1.08161	0	1.0816	32.698	1.8096	-0.009	5	0.8344	0.9818	2.4497	32.81719
20	32.4	0.8	-5.23	-1.59	32.336	2.474	4	2.55787	117.117	1.08746	0	1.0875	28.735	2.5601	-0.012	4	0.887	0.976	2.587	28.8242
20.1	26.2	0.88	-5.52	-1.59	26.1324	3.3675	4	2.71449	117.2949	1.09333	0	1.0933	22.902	3.5145	-0.016	4	0.9498	0.9694	2.751	22.9394
20.2	21.1	0.86	-5.65	-1.59	21.0308	4.0892	3	2.84096	116.597	1.09916	0	1.0992	18.134	4.3147	-0.02	3	1	0.9627	2.8865	18.13358
20.3	18.5	0.58	-5.52	-1.61	18.4324	3.1466	4	2.81411	113.3931	1.10483	0	1.1048	15.684	3.3473	-0.023	3	0.9944	0.9579	2.8665	15.68733
20.4	20.9	0.54	-5.51	-1.61	20.8326	2.5921	4	2.72082	113.1688	1.11049	0	1.1105	17.76	2.7381	-0.02	4	0.9579	0.9548	2.7702	17.79598
20.5	38.1	0.53	-5.47	-1.63	38.0331	1.3935	5	2.35066	114.5001	1.11621	0	1.1162	33.073	1.4357	-0.011	5	0.8111	0.9576	2.3841	33.40903
20.6	72.7	0.53	-4.01	-1.67	72.6509	0.7295	6	1.95974	116.0787	1.12202	0	1.122	63.75	0.741	-0.004	6	0.6586	0.9621	1.9831	65.03955
20.7	92.9	0.57	-1.9	-1.67	92.8767	0.6137	6	1.82937	117.2101	1.12788	0	1.1279	81.347	0.6213	-0.001	6	0.6085	0.9619	1.8508	83.40584
20.8	95.1	0.59	-1.35	-1.67	95.0835	0.6205	6	1.82351	117.5197	1.13375	0	1.1338	82.866	0.628	-0.001	6	0.6069	0.959	1.8459	85.1463
20.9	83.4	0.58	-1.9	-1.67	83.3767	0.6956	6	1.89856	117.0742	1.13961	0	1.1396	72.163	0.7053	-0.002	6	0.6369	0.9538	1.9239	74.13348
21	67.3	0.64	-0.96	-1.66	67.2883	0.9511	6	2.05263	117.2716	1.14547	0	1.1455	57.743	0.9676	-0.001	5	0.6976	0.9462	2.0826	59.1448

21.1	59.4	0.69	-0.6	-1.65	59.3927	1.1618	5	2.14771	117.5176	1.15135	0	1.1514	50.585	1.1847	-7E-04	5	0.7355	0.9398	2.1813	51.72804
21.2	54.7	0.68	-0.54	-1.65	54.6934	1.2433	5	2.19402	117.2097	1.15721	0	1.1572	46.263	1.2702	-7E-04	5	0.7546	0.9347	2.2306	47.29111
21.3	54.6	0.65	-0.26	-1.65	54.5968	1.1906	5	2.18341	116.8753	1.16305	0	1.1631	45.943	1.2165	-4E-04	5	0.7514	0.9314	2.2214	47.03589
21.4	55.4	0.62	-1.95	-1.65	55.3761	1.1196	5	2.1627	116.5641	1.16888	0	1.1689	46.375	1.1438	-0.003	5	0.7442	0.9286	2.2018	47.57196
21.5	56.4	0.62	-3.74	-1.67	56.3542	1.1002	5	2.15208	116.6068	1.17471	0	1.1747	46.973	1.1236	-0.005	5	0.7408	0.9255	2.1922	48.26324
21.6	54.4	0.68	-4.29	-1.66	54.3475	1.2512	5	2.19788	117.1942	1.18057	0	1.1806	45.035	1.279	-0.006	5	0.7594	0.9202	2.2402	46.23761
21.7	49.9	0.83	-4.42	-1.65	49.8459	1.6651	5	2.30361	118.4419	1.18649	0	1.1865	41.011	1.7057	-0.007	5	0.8013	0.9123	2.3495	41.95522
21.8	43.1	1.01	-4.57	-1.67	43.0441	2.3464	5	2.44771	119.5202	1.19247	0	1.1925	35.097	2.4133	-0.008	4	0.8585	0.9025	2.499	35.69548
21.9	33.1	1.05	-4.76	-1.67	33.0417	3.1778	4	2.62072	119.1594	1.19842	0	1.1984	26.571	3.2974	-0.011	4	0.9283	0.8908	2.6814	26.80944
22	25.9	0.93	-4.74	-1.67	25.842	3.5988	4	2.73684	117.672	1.20431	0	1.2043	20.458	3.7747	-0.014	3	0.9768	0.8813	2.808	20.51955
22.1	22.2	0.94	-4.59	-1.67	22.1438	4.245	3	2.83444	117.3736	1.21018	0	1.2102	17.298	4.4904	-0.016	3	1	0.8743	2.9133	17.29801
22.2	21.7	0.95	-4.6	-1.67	21.6437	4.3893	3	2.85143	117.3953	1.21605	0	1.2161	16.798	4.6506	-0.016	3	1	0.8701	2.9328	16.79842
22.3	20.2	0.89	-4.59	-1.66	20.1438	4.4182	3	2.87697	116.7427	1.22188	0	1.2219	15.486	4.7035	-0.017	3	1	0.866	2.9631	15.48588
22.4	16.5	0.71	-4.76	-1.66	16.4417	4.3183	3	2.93839	114.5941	1.22761	0	1.2276	12.393	4.6667	-0.023	3	1	0.8619	3.0361	12.39326
22.5	16.6	0.58	-4.64	-1.67	16.5432	3.506	3	2.87999	113.1294	1.23327	0	1.2333	12.414	3.7884	-0.022	3	1	0.858	2.98	12.41411
22.6	46.5	0.56	-4.5	-1.67	46.4449	1.2057	5	2.24351	115.3904	1.23904	0	1.239	36.485	1.2388	-0.007	5	0.7865	0.8833	2.304	37.73539
22.7	96.3	0.59	-4.6	-1.66	96.2437	0.613	6	1.81621	117.5493	1.24492	0	1.2449	76.309	0.6211	-0.003	6	0.6179	0.9044	1.8605	81.20084
22.8	138.2	0.68	-5.41	-1.65	138.134	0.4923	6	1.63281	119.4694	1.25089	0	1.2509	109.43	0.4968	-0.003	6	0.5459	0.9127	1.6713	118.0697
22.9	157.8	0.82	-5.97	-1.65	157.727	0.5199	6	1.59911	121.1627	1.25695	0	1.257	124.48	0.5241	-0.003	6	0.5329	0.9123	1.6364	134.9113
23	168.1	0.87	-6.39	-1.65	168.022	0.5178	6	1.57589	121.75	1.26304	0	1.263	132.03	0.5217	-0.003	6	0.5243	0.9114	1.6131	143.6313
23.1	171.2	1.06	-6.49	-1.65	171.121	0.6195	6	1.61705	123.2399	1.2692	0	1.2692	133.83	0.6241	-0.003	6	0.5406	0.9064	1.6551	145.4902
23.2	173.9	1.23	-6.42	-1.65	173.821	0.7076	6	1.64865	124.3665	1.27542	0	1.2754	135.29	0.7129	-0.003	6	0.5532	0.9018	1.6876	147.0604
23.3	170.1	1.09	-6.32	-1.65	170.023	0.6411	6	1.62859	123.4284	1.28159	0	1.2816	131.67	0.646	-0.003	6	0.5464	0.9006	1.6687	143.6229
23.4	172	1.1	-6.22	-1.66	171.924	0.6398	6	1.6243	123.5224	1.28776	0	1.2878	132.51	0.6447	-0.003	6	0.5453	0.8984	1.6652	144.8849
23.5	169.5	1.2	-6.19	-1.67	169.424	0.7083	6	1.6574	124.1233	1.29397	0	1.294	129.93	0.7137	-0.003	6	0.5587	0.8937	1.6997	141.9995
23.6	157.1	1.2	-5.87	-1.67	157.028	0.7642	6	1.70391	123.938	1.30017	0	1.3002	119.78	0.7706	-0.003	6	0.5777	0.8878	1.7487	130.6623
23.7	152.9	1.17	-5.06	-1.67	152.838	0.7655	6	1.71336	123.6868	1.30635	0	1.3064	116	0.7721	-0.002	6	0.5822	0.8845	1.7597	126.6738
23.8	140.2	1.16	-5.02	-1.67	140.139	0.8278	6	1.76404	123.4124	1.31252	0.00312	1.3094	106.02	0.8356	-0.003	6	0.6025	0.8795	1.8128	115.3931
23.9	124.2	1.07	-4.98	-1.67	124.139	0.8619	6	1.81573	122.5258	1.31865	0.00624	1.3124	93.584	0.8712	-0.003	6	0.6236	0.8743	1.8676	101.4872
24	108	0.97	-4.98	-1.67	107.939	0.8987	6	1.87426	121.4668	1.32472	0.00936	1.3154	81.053	0.9098	-0.003	6	0.6477	0.8685	1.9299	87.51158
24.1	92	0.91	-4.95	-1.67	91.9394	0.9898	6	1.95489	120.6083	1.33075	0.01248	1.3183	68.733	1.0043	-0.004	6	0.6803	0.8611	2.015	73.73773
24.2	74.1	0.95	-4.85	-1.67	74.0406	1.2831	5	2.09883	120.395	1.33677	0.0156	1.3212	55.03	1.3067	-0.005	5	0.7377	0.8489	2.1655	58.33005
24.3	55.2	1.05	-4.68	-1.67	55.1427	1.9042	5	2.307	120.4086	1.34279	0.01872	1.3241	40.632	1.9517	-0.007	5	0.8208	0.8319	2.3834	42.29832
24.4	41.7	1.07	-3.96	-1.67	41.6515	2.5689	4	2.48422	119.8623	1.34878	0.02184	1.3269	30.373	2.6549	-0.008	4	0.8924	0.8171	2.5712	31.12137
24.5	32.9	1.02	-3.48	-1.68	32.8574	3.1043	4	2.6159	118.9337	1.35473	0.02496	1.3298	23.69	3.2378	-0.009	4	0.9467	0.8055	2.7134	23.98072
24.6	26	0.89	-3.25	-1.67	25.9602	3.4283	4	2.7217	117.3614	1.3606	0.02808	1.3325	18.461	3.6179	-0.011	3	0.9919	0.7956	2.8312	18.49548
24.7	20.4	0.71	-3.03	-1.67	20.3629	3.4867	4	2.80773	115.1158	1.36636	0.0312	1.3352	14.228	3.7375	-0.013	3	1	0.7925	2.9294	14.22798
24.8	17.3	0.56	-2.51	-1.67	17.2693	3.2428	3	2.84452	112.9774	1.372	0.03432	1.3377	11.884	3.5226	-0.014	3	1	0.791	2.9762	11.88418
24.9	15	0.42	-2.01	-1.67	14.9754	2.8046	4	2.85662	110.5248	1.37753	0.03744	1.3401	10.147	3.0887	-0.013	3	1	0.7896	2.9988	10.14698
25	13.7	0.32	-1.79	-1.67	13.6781	2.3395	4	2.84392	108.314	1.38295	0.04056	1.3424	9.1592	2.6027	-0.014	3	1	0.7882	2.9942	9.15917
25.1	13	0.31	-1.53	-1.67	12.9813	2.3881	4	2.86774	107.9542	1.38834	0.04368	1.3447	8.6214	2.674	-0.013	3	1	0.7869	3.0227	8.62143
25.2	13.1	0.46	-1.27	-1.68	13.0845	3.5156	3	2.96185	110.8612	1.39389	0.0468	1.3471	8.6784	3.9348	-0.012	3	1	0.7855	3.1149	8.67841
25.3	14.6	0.53	-1.05	-1.67	14.5872	3.6333	3	2.93275	112.1628	1.3995	0.04992	1.3496	9.7717	4.0189	-0.01	3	1	0.784	3.0786	9.77171
25.4	23.7	0.58	-0.54	-1.68	23.6934	2.4479	4	2.66125	114.0055	1.4052	0.05304	1.3522	16.483	2.6023	-0.004	4	0.9737	0.7876	2.7817	16.58998
25.5	41.6	0.6	0.63	-1.7	41.6077	1.442	5	2.32778	115.6269	1.41098	0.05616	1.3548	29.67	1.4927	-3E-04	5	0.8368	0.8131	2.4216	30.8906
25.6	53	0.66	-0.95	-1.72	52.9884	1.2456	5	2.20552	116.914	1.41682	0.05928	1.3575	37.989	1.2798	-0.002	5	0.7872	0.8219	2.2909	40.05768
25.7	54.9	0.66	-2.77	-1.7	54.8661	1.2029	5	2.18436	116.999	1.42267	0.0624	1.3603	39.289	1.235	-0.005	5	0.7791	0.8223	2.2691	41.53093
25.8	57.6	0.64	-3.11	-1.7	57.5619	1.1119	5	2.14732	116.8908	1.42852	0.06552	1.363	41.184	1.1401	-0.005	5	0.7647	0.824	2.231	43.71225
25.9	62.2	0.63	-4.74	-1.7	62.142	1.0138	5	2.09687	116.9623	1.43436	0.06864	1.3657	44.451	1.0378	-0.007	5	0.7448	0.8269	2.1785	47.44172
26	66.1	0.68	-6.6	-1.7	66.0192	1.03	5	2.07967	117.6687	1.44025	0.07176	1.3685	47.19	1.053	-0.008	5	0.7379	0.8271	2.16	50.48091
26.1	67.7	0.59	-8.05	-1.7	67.6015	0.8728	6	2.02941	116.6877	1.44608	0.07488	1.3712	48.246	0.8918	-0.01	5	0.7188	0.83	2.1093	51.89435
26.2	66.5	0.67	-8.9	-1.71	66.3911	1.0092	5	2.07246	117.574	1.45196	0.078	1.374	47.264	1.0317	-0.011	5	0.7358	0.8251	2.1538	50.64079
26.3	65.3	0.6	-9.21	-1.72	65.1873	0.9204	6	2.05559	116.722	1.4578	0.08112	1.3767	46.292	0.9415	-0.012	5	0.73	0.8252	2.138	49.70201
26.4	65.7	0.66	-9.59	-1.72	65.5826	1.0064	5	2.07604	117.4341	1.46367	0.08424	1.3794	46.482	1.0293	-0.012	5	0.7381	0.8222	2.159	49.82558
26.5	69	0.52	-10.1	-1.72	68.8764	0.755	6	1.98729	115.8092	1.46946	0.08736	1.3821	48.771	0.7714	-0.012	6	0.7035	0.8287	2.0687	52.79107
26.6	76.1	0.51	-10.41	-1.71	75.9726	0.6713	6	1.9237	115.9063	1.47526	0.09048	1.3848	53.797	0.6846	-0.011	6	0.6784	0.8332	2.0024	58.66032
26.7	81.9	0.58	-10.87	-1.71	81.767	0.7093	6	1.91031	117.0266	1.48111	0.0936	1.3875	57.863	0.7224	-0.011	6	0.6728	0.8333	1.9874	63.22967
26.8	87.8	0.68	-8.33	-1.7	87.698	0.7754	6	1.90744	118.3613	1.48702	0.09672	1.3903	62.009	0.7888	-0.008	6	0.6713	0.8325	1.983	67.83214
26.9	94.9	0.76	-6.82	-1.69	94.8165	0.8016	6	1.88851	119.3655	1.49299	0.09984	1.3932	66.987	0.8144	-0.006	6	0.6635	0.8332	1.9624	73.48378
27	106.2	0.81	-8.47	-1.68	106.096	0.7635	6	1.83673	120.1058	1.499	0.10296	1.396	74.924	0.7744	-0.007	6	0.6429	0.8368	1.9078	82.72016
27.1	113.2	0.86	-9.67	-1.7	113.082	0.7605	6	1.81365	120.6996	1.50503	0.10608	1.399	79.757	0.7708	-0.007	6	0.6337	0.8378	1.8834	88.34691
27.2	116.1	0.9	-10.26	-1.68	115.974	0.776	6	1.81031	121.0939	1.51109	0.1092	1.4019	81.649	0.7863	-0.007	6	0.6325	0.837	1.8799	90.54273
27.3	120.4	0.94	-10.49	-1.68	120.272	0.7816	6	1.79976	121.5008	1.51716	0.11232	1.4048	84.532	0.7916	-0.007	6	0.6285	0.8368	1.8689	93.92027
27.4	125.7	0.98	-10.59	-1.67	125.57	0.7804	6	1.78469	121.9109	1.52326	0.11544	1.4078	88.113	0.79	-0.007	6	0.6226	0.8371	1.8531	98.13998
27.5	132.7	1.05	-10.8	-1.68	132.568	0.7921	6	1.77038	122.548	1.52939	0.11856	1.4108	92.881	0.8013	-0.007	6	0.6169	0.8374	1.8378	103.7029
27.6	142.1	1.17	-10.88	-1.68	141.967	0.8241	6	1.75852	123.5068	1.53556	0.12168	1.4139	99.323	0.8332	-0.006	6	0.612	0.8375	1.8247	111.1452
27.7	156.5	1.13	-10.97	-1.68	156.366	0.7227	6	1.68971	123.4879	1.54174	0.1248	1.4169	109.27	0.7299	-0.006	6	0.5851	0.843	1.7535	123.342
27.8	168	1.11	-11.01	-1.69	167.865	0.6612	6	1.64139	123.5303	1.54791	0.12792	1.42	117.13	0.6674	-0.006	6	0.5662	0.8466	1.7036	133.0677
27.9	173.1	1.16	-10.98	-1.7	172.966	0.6707	6	1.63528	123.9257	1.55411	0.13104	1.4231	120.45	0.6767	-0.005	6	0.5639	0.8461	1.6972	137.0689
28	172	1.21	-10.9	-1.7	171.867	0.704	6	1.65097	124.219	1.56032	0.13416	1.4262	119.42	0.7105	-0.005	6	0.5703	0.8435	1.7136	135.759
28.1	166.5	1.26	-10.78	-1.7	166.368	0.7574	6	1.68231	124.4359	1.56654	0.13728	1.4293	115.31	0.7646	-0.006	6	0.583	0.8392	1.7464	130.71

28.2	164.3	1.29	-10.72	-1.7	164.169	0.7858	6	1.69716	124.5756	1.57277	0.1404	1.4324	113.52	0.7934	-0.006	6	0.5891	0.8366	1.7622	128.5578
28.3	160.3	1.32	-10.71	-1.72	160.169	0.8241	6	1.71885	124.6837	1.579	0.14352	1.4355	110.48	0.8323	-0.006	6	0.598	0.8333	1.7851	124.8909
28.4	150.4	1.34	-10.71	-1.72	150.269	0.8917	6	1.76229	124.6381	1.58524	0.14664	1.4386	103.35	0.9012	-0.006	6	0.6156	0.8277	1.831	116.3067
28.5	135.6	1.35	-10.69	-1.72	135.469	0.9965	6	1.82802	124.4396	1.59146	0.14976	1.4417	92.861	1.0084	-0.007	6	0.6422	0.8198	1.9004	103.7291
28.6	118.7	1.34	-10.63	-1.71	118.57	1.1301	6	1.90757	124.0603	1.59766	0.15288	1.4448	80.962	1.1456	-0.008	6	0.6745	0.8105	1.9848	89.60122
28.7	102.2	1.35	-10.63	-1.72	102.07	1.3226	6	2.00164	123.7492	1.60385	0.156	1.4479	69.39	1.3437	-0.009	5	0.7126	0.7997	2.0844	75.9347
28.8	84.6	1.35	-10.57	-1.72	84.4706	1.5982	5	2.11773	123.2876	1.61001	0.15912	1.4509	57.11	1.6292	-0.011	5	0.7601	0.7867	2.2078	61.60351
28.9	68.7	1.34	-10.6	-1.72	68.5703	1.9542	5	2.2435	122.7246	1.61615	0.16224	1.4539	46.051	2.0014	-0.014	5	0.8113	0.7727	2.3421	48.89647
29	56.9	1.32	-10.69	-1.72	56.7692	2.3252	5	2.35498	122.1539	1.62226	0.16536	1.4569	37.852	2.3936	-0.017	5	0.8571	0.7602	2.462	39.62243
29.1	49.4	1.29	-10.97	-1.72	49.2657	2.6185	5	2.43523	121.6399	1.62834	0.16848	1.4599	32.632	2.708	-0.02	4	0.8904	0.7508	2.5493	33.80273
29.2	39.9	1.26	-11.22	-1.72	39.7627	3.1688	4	2.55983	120.9451	1.63439	0.1716	1.4628	26.066	3.3046	-0.026	4	0.9423	0.737	2.6851	26.55764
29.3	31.1	1.18	-11.27	-1.72	30.9621	3.8111	4	2.69418	119.8549	1.64038	0.17472	1.4657	20.006	4.0243	-0.034	3	0.9991	0.7221	2.8342	20.01144
29.4	24.8	0.99	-11.19	-1.72	24.663	4.0141	3	2.78315	118.0156	1.64628	0.17784	1.4684	15.674	4.3012	-0.043	3	1	0.7206	2.9344	15.6743
29.5	20.4	0.91	-11.07	-1.73	20.2645	4.4906	3	2.87958	116.9199	1.65213	0.18096	1.4712	12.651	4.8892	-0.053	3	1	0.7192	3.0417	12.65145
29.6	19.2	0.96	-11.01	-1.74	19.0652	5.0353	3	2.93211	117.1625	1.65798	0.18408	1.4739	11.81	5.5149	-0.056	3	1	0.7179	3.0979	11.81031
29.7	25	0.99	-11.01	-1.73	24.8652	3.9815	3	2.77815	118.0355	1.66389	0.1872	1.4767	15.712	4.267	-0.042	3	1	0.7165	2.9314	15.71178
29.8	41.4	1.01	-10.58	-1.76	41.2705	2.4473	4	2.47348	119.4176	1.66986	0.19032	1.4795	26.766	2.5505	-0.024	4	0.911	0.7368	2.6009	27.5761
29.9	45.6	0	-10.72	-1.76	45.4688	0	0	0	120.9	1.6759	0.19344	1.4825	29.541	0	-0.022	0	1	0.7138	0	0
30	36	0	-10.85	-1.76	35.8672	0	0	0	120.9	1.68195	0.19656	1.4854	23.014	0	-0.029	0	1	0.7124	0	0

	CPT-3	In situ data						Basic output data												
Depth (ft)	qc (tsf)	fs (tsf)	u (psi)	Other	qt (tsf)	Rf(%)	SBT	Ic SBT	ã (pcf)	ó,v (tsf)	u0 (tsf)	ó',vo (tsf)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.1	0.8	0	0.08	0.35	0.80098	0	1	0	120.9	0.00605	0	0.0061	131.5	0	0.0073	0	1	175.04	0	0
0.2	1.7	0	0.15	0.39	1.70184	0	0	0	120.9	0.01209	0	0.0121	139.76	0	0.0064	0	1	87.519	0	0
0.3	2.9	0.07	0.15	-0.67	2.90184	2.4123	3	3.42927	93.41194	0.01676	0	0.0168	172.13	2.4263	0.0037	5	0.7396	21.449	2.3401	58.48242
0.4	3.6	0.09	0.15	-0.08	3.60184	2.4987	3	3.35394	95.77787	0.02155	0	0.0216	166.14	2.5138	0.003	5	0.7444	18.147	2.3354	61.40381
0.5	5.8	0.11	0.13	-0.42	5.80159	1.896	3	3.11477	98.40882	0.02647	0	0.0265	218.18	1.9047	0.0016	5	0.6955	13.001	2.207	70.95817
0.6	14.6	0.14	0.08	-0.74	14.601	0.9588	4	2.62179	102.4245	0.03159	0	0.0316	461.19	0.9609	0.0004	6	0.5705	7.4127	1.8924	102.067
0.7	29.2	0.18	0.08	-0.67	29.201	0.6164	5	2.26655	105.9539	0.03689	0	0.0369	790.59	0.6172	0.0002	6	0.4842	5.0791	1.6654	139.9911
0.8	44.6	0.23	0.08	-0.31	44.601	0.5157	6	2.06738	108.7805	0.04233	0	0.0423	1052.7	0.5162	0.0001	6	0.4429	4.161	1.5408	175.2243
0.9	60.3	0.3	0.08	-0.1	60.301	0.4975	6	1.94397	111.4602	0.0479	0	0.0479	1257.9	0.4979	0.0001	6	0.4168	3.6325	1.4743	206.8468
1	77	0.37	0.02	-0.17	77.0002	0.4805	6	1.8436	113.591	0.05358	0	0.0536	1436.1	0.4809	2E-05	6	0.3954	3.2527	1.4195	236.5414
1.1	91.9	0.47	0	-0.75	91.9	0.5114	6	1.79088	115.7728	0.05937	0	0.0594	1546.9	0.5118	0	6	0.3874	3.0523	1.3997	264.9286
1.2	104.5	0.57	-0.07	-0.96	104.499	0.5455	6	1.75848	117.4977	0.06524	0	0.0652	1600.7	0.5458	-5E-05	6	0.3817	2.8961	1.3942	285.8372
1.3	104.2	0.63	-0.08	-0.84	104.199	0.6046	6	1.78424	118.223	0.07116	0	0.0712	1463.4	0.605	-6E-05	6	0.3946	2.9011	1.4257	285.4958
1.4	93.3	0.67	-0.08	-0.9	93.299	0.7181	6	1.86622	118.4039	0.07708	0	0.0771	1209.5	0.7187	-6E-05	6	0.4234	3.0312	1.4992	267.0573
1.5	85.2	0.64	-0.08	-0.8	85.199	0.7512	6	1.90973	117.8472	0.08297	0	0.083	1025.9	0.7519	-7E-05	6	0.4387	3.0554	1.5384	245.7786
1.6	81.2	0.54	-0.09	-0.5	81.1989	0.665	6	1.89728	116.4868	0.08879	0	0.0888	913.48	0.6658	-8E-05	6	0.4351	2.9393	1.5286	225.3142
1.7	78.4	0.48	-0.15	-0.92	78.3982	0.6123	6	1.89067	115.5393	0.09457	0	0.0946	828.01	0.613	-1E-04	6	0.4341	2.8531	1.5255	211.1353
1.8	76.2	0.44	-0.15	-0.86	76.1982	0.5774	6	1.8878	114.8333	0.10031	0	0.1003	758.62	0.5782	-1E-04	6	0.4347	2.7849	1.5263	200.2892
1.9	74.3	0.44	-0.15	-0.89	74.2982	0.5922	6	1.90287	114.7717	0.10605	0	0.1061	699.6	0.5931	-2E-04	6	0.442	2.7644	1.5443	193.8347
2	72.1	0.45	-0.19	-0.57	72.0977	0.6242	6	1.92596	114.8628	0.11179	0	0.1118	643.92	0.6251	-2E-04	6	0.452	2.7622	1.5693	187.9161
2.1	70.3	0.49	-0.18	-0.52	70.2978	0.697	6	1.96088	115.4242	0.11756	0	0.1176	596.96	0.6982	-2E-04	6	0.4666	2.7876	1.6061	184.8873
2.2	68.7	0.48	-0.21	-0.57	68.6974	0.6987	6	1.96986	115.2172	0.12332	0	0.1233	556.05	0.7	-2E-04	6	0.4715	2.7552	1.6182	178.5597
2.3	65.9	0.48	-0.16	-0.74	65.898	0.7284	6	1.99483	115.1157	0.12908	0	0.1291	509.52	0.7298	-2E-04	6	0.4817	2.7547	1.6438	171.2269
2.4	62.1	0.5	-0.15	-0.91	62.0982	0.8052	6	2.04024	115.2695	0.13484	0	0.1348	459.52	0.8069	-2E-04	6	0.5011	2.8076	1.686	164.4133
2.5	58.2	0.5	-0.22	-0.7	58.1973	0.8592	5	2.0793	115.1113	0.1406	0	0.1406	412.92	0.8612	-3E-04	6	0.5154	2.8297	1.7234	155.2599
2.6	52.7	0.47	-0.38	-0.34	52.6954	0.8919	5	2.12423	114.4163	0.14632	0	0.1463	359.14	0.8944	-5E-04	6	0.5307	2.8576	1.7634	141.9193
2.7	55.9	0.48	-0.4	-0.42	55.8951	0.8588	5	2.09379	114.7142	0.15206	0	0.1521	366.6	0.8611	-5E-04	6	0.5236	2.7617	1.7444	145.492
2.8	59.2	0.5	-0.45	-0.48	59.1945	0.8447	5	2.06907	115.1527	0.15781	0	0.1578	374.09	0.8469	-6E-04	6	0.5185	2.682	1.7305	149.6403
2.9	59.9	0.53	-0.49	-0.63	59.894	0.8849	5	2.07611	115.6077	0.16359	0	0.1636	365.11	0.8873	-6E-04	6	0.5234	2.6568	1.7432	149.9769
3	60.2	0.54	-0.48	-0.59	60.1941	0.8971	5	2.07767	115.7567	0.16938	0	0.1694	354.38	0.8996	-6E-04	6	0.5261	2.6218	1.7499	148.7318
3.1	60.6	0.54	-0.51	-0.43	60.5938	0.8912	5	2.07367	115.7728	0.17517	0	0.1752	344.91	0.8938	-6E-04	6	0.5268	2.579	1.7512	147.2639
3.2	59.8	0.55	-0.53	-0.4	59.7935	0.9198	5	2.08621	115.8747	0.18096	0	0.181	329.42	0.9226	-6E-04	6	0.5329	2.5627	1.7668	144.3786
3.3	58.7	0.53	-0.53	-0.34	58.6935	0.903	5	2.08833	115.5584	0.18674	0	0.1867	313.3	0.9059	-7E-04	6	0.535	2.5294	1.7718	139.8596
3.4	58.8	0.53	-0.53	-0.62	58.7935	0.9015	5	2.0873	115.5625	0.19252	0	0.1925	304.39	0.9044	-7E-04	6	0.5365	2.495	1.7753	138.1773
3.5	60.7	0.53	-0.6	-0.09	60.6927	0.8733	5	2.06812	115.6401	0.1983	0	0.1983	305.06	0.8761	-7E-04	6	0.5322	2.4379	1.7633	139.3808
3.6	63.3	0.53	-0.6	0.15	63.2927	0.8374	6	2.04282	115.7424	0.20409	0	0.2041	309.12	0.8401	-7E-04	6	0.5259	2.3759	1.746	141.6602
3.7	63.5	0.55	-0.6	0.07	63.4927	0.8662	6	2.04996	116.0211	0.20989	0	0.2099	301.5	0.8691	-7E-04	6	0.5303	2.358	1.7572	141.0259
3.8	61.3	0.53	-0.6	0.07	61.2927	0.8647	6	2.06218	115.664	0.21567	0	0.2157	283.19	0.8678	-7E-04	6	0.5355	2.3437	1.7704	135.2857
3.9	59.8	0.5	-0.66	-0.01	59.7919	0.8362	6	2.06302	115.1772	0.22143	0	0.2214	269.02	0.8393	-8E-04	6	0.5369	2.3157	1.7732	130.3701
4	59.8	0.48	-0.74	-0.05	59.7909	0.8028	6	2.05327	114.8785	0.22718	0	0.2272	262.19	0.8059	-9E-04	6	0.5349	2.2773	1.7675	128.194
4.1	59	0.47	-0.75	-0.35	58.9908	0.7967	6	2.05637	114.6916	0.23291	0	0.2329	252.28	0.7999	-9E-04	6	0.5373	2.2554	1.7732	125.2431
4.2	55.2	0.47	-0.68	-0.19	55.1917	0.8516	5	2.09638	114.5292	0.23864	0	0.2386	230.28	0.8553	-9E-04	6	0.552	2.2753	1.8112	118.1664
4.3	49.7	0.46	-0.68	-0.24	49.6917	0.9257	5	2.15439	114.1158	0.24434	0	0.2443	202.37	0.9303	-1E-03	6	0.5724	2.3139	1.8642	108.1312
4.4	44.6	0.43	-0.68	-0.28	44.5917	0.9643	5	2.20345	113.3582	0.25001	0	0.25	177.36	0.9697	-0.001	6	0.5894	2.3406	1.9083	98.08531
4.5	38.8	0.39	-0.68	-0.23	38.7917	1.0054	5	2.26409	112.304	0.25563	0	0.2556	150.75	1.012	-0.001	6	0.6101	2.3789	1.9619	86.63736
4.6	35.5	0.33	-0.68	-0.05	35.4917	0.9298	5	2.27881	110.8648	0.26117	0	0.2612	134.9	0.9367	-0.001	6	0.615	2.3642	1.9741	78.7167
4.7	35.7	0.3	-0.73	0.04	35.6911	0.8406	5	2.25417	110.1811	0.26668	0	0.2667	132.84	0.8469	-0.001	6	0.6077	2.3105	1.9542	77.35375
4.8	37.9	0.3	-0.82	-0.32	37.89	0.7918	5	2.21863	110.3269	0.27219	0	0.2722	138.2	0.7975	-0.002	6	0.5976	2.2508	1.927	80.02139
4.9	40.6	0.34	-0.83	-0.29	40.5898	0.8377	5	2.20545	111.4106	0.27777	0	0.2778	145.13	0.8434	-0.001	6	0.5959	2.2188	1.922	84.53247
5	43.4	0.39	-0.99	-0.19	43.3879	0.8989	5	2.19696	112.5771	0.28339	0	0.2834	152.1	0.9048	-0.002	6	0.5959	2.1924	1.9214	89.31181
5.1	46	0.44	-1.04	-0.34	45.9873	0.9568	5	2.19039	113.6016	0.28907	0	0.2891	158.08	0.9628	-0.002	6	0.5963	2.1679	1.9221	93.62894
5.2	50.2	0.48	-0.98	-0.22	50.188	0.9564	5	2.15864	114.4515	0.2948	0	0.2948	169.25	0.9621	-0.001	6	0.5881	2.1202	1.8997	99.97392
5.3	57	0.49	-0.98	-0.72	56.988	0.8598	5	2.08708	114.9123	0.30054	0	0.3005	188.62	0.8644	-0.001	6	0.5658	2.0384	1.8406	109.2058
5.4	62.7	0.53	-0.93	-1.07	62.6886	0.8455	6	2.0486	115.719	0.30633	0	0.3063	203.65	0.8496	-0.001	6	0.5551	1.9899	1.8118	117.3145
5.5	64.2	0.56	-0.84	-0.91	64.1897	0.8724	6	2.04779	116.1796	0.31214	0	0.3121	204.65	0.8767	-1E-03	6	0.5567	1.9731	1.8154	119.1148
5.6	63.3	0.55	-0.89	-0.4	63.2891	0.869	6	2.0519	116.0133	0.31794	0	0.3179	198.06	0.8734	-0.001	6	0.5593	1.9591	1.8215	116.5899
5.7	64.2	0.56	-0.9	-0.42	64.189	0.8724	6	2.0478	116.1795	0.32375	0	0.3238	197.27	0.8769	-0.001	6	0.5594	1.9397	1.8212	117.0737
5.8	66	0.56	-0.96	-0.4	65.9883	0.8486	6	2.03111	116.247	0.32956	0	0.3296	199.23	0.8529	-0.001	6	0.5551	1.9109	1.8093	118.5755
5.9	70.2	0.58	-0.84	-0.23	70.1897	0.8263	6	2.00247	116.6543	0.33539	0	0.3354	208.28	0.8303	-9E-04	6	0.5471	1.8749	1.7874	123.7802
6	78.1	0.67	-0.75	-0.27	78.0908	0.858	6	1.974	117.9699	0.34129	0	0.3413	227.81	0.8617	-7E-04	6	0.54	1.8423	1.7682	135.3717
6.1	87.8	0.79	-0.75	-0.48	87.7908	0.8999	6	1.94539	119.461	0.34726	0	0.3473	251.81	0.9034	-6E-04	6	0.5317	1.8083	1.7496	149.4438
6.2	96.6	0.9	-0.83	-0.42	96.5898	0.9318	6	1.92181	120.6478	0.3533	0	0.3533	272.4	0.9352	-6E-04	6	0.5262	1.7811	1.7341	161.9919
6.3	102.9	0.96	-0.75	-0.36	102.891	0.933	6	1.90069	121.2742	0.35936	0	0.3594	285.32	0.9363	-5E-04	6	0.5209	1.7551	1.7192	170.0671
6.4	107.9	0.98	-0.68	-0.53	107.892	0.9083	6	1.87733	121.5408	0.36544	0	0.3654	294.24	0.9114	-5E-04	6	0.5143	1.7277	1.7011	175.5717
6.5	111.1	0.98	-0.68	-0.49	111.092	0.8822	6	1.85948	121.6121	0.37152	0	0.3715	298.02	0.8851	-4E-04	6	0.5094	1.7043	1.6874	178.3413
6.6	113.5	0.96	-0.68	-0.42	113.492	0.8459	6	1.84083	121.5133	0.37759	0	0.3776	299.57	0.8487	-4E-04	6	0.504	1.6809	1.6724	179.6964
6.7	115.3	0.97	-0.68	-0.39	115.292	0.8413	6	1.83404	121.6275	0.38367	0	0.3837	299.49	0.8442	-4E-04	6	0.503	1.6657	1.6687	180.8856
6.8	116.7	0.98	-0.73	-0.45	116.691	0.8398	6	1.82945	121.732	0.38976	0	0.3898	298.39	0.8426	-5E-04	6	0.5026	1.652	1.667	181.5757

6.9	117	1	-0.7	-0.48	116.991	0.8548	6	1.83338	121.8861	0.39586	0	0.3959	294.54	0.8577	-4E-04	6	0.5053	1.6435	1.6731	181.0965
7	116	1.03	-0.68	-0.53	115.992	0.888	6	1.84672	122.0815	0.40196	0	0.402	287.57	0.8911	-4E-04	6	0.5113	1.6403	1.6879	179.1873
7.1	114.9	1.04	-0.68	-0.57	114.892	0.9052	6	1.8552	122.1289	0.40807	0	0.4081	280.55	0.9084	-4E-04	6	0.5154	1.6341	1.6979	176.8061
7.2	114.3	1.03	-0.68	-0.62	114.292	0.9012	6	1.85574	122.0455	0.41417	0	0.4142	274.95	0.9045	-4E-04	6	0.5167	1.6235	1.7003	174.7309
7.3	113.8	1.02	-0.68	-0.77	113.792	0.8964	6	1.85574	121.9634	0.42027	0	0.4203	269.76	0.8997	-4E-04	6	0.5177	1.6129	1.7022	172.8104
7.4	113.4	1.01	-0.68	-0.76	113.392	0.8907	6	1.85519	121.8827	0.42636	0	0.4264	264.95	0.8941	-4E-04	6	0.5185	1.6021	1.7035	171.0427
7.5	114.5	0.98	-0.68	-0.73	114.492	0.856	6	1.84107	121.6856	0.43244	0	0.4324	263.75	0.8592	-4E-04	6	0.5145	1.5846	1.6921	170.8148
7.6	117.5	0.97	-0.68	-0.85	117.492	0.8256	6	1.8225	121.6737	0.43853	0	0.4385	266.92	0.8287	-4E-04	6	0.509	1.5657	1.677	173.2087
7.7	118.3	0.97	-0.66	-0.7	118.292	0.82	6	1.81836	121.6902	0.44461	0	0.4446	265.06	0.8231	-4E-04	6	0.5087	1.5543	1.6752	173.1088
7.8	118.3	0.97	-0.64	-0.65	118.292	0.82	6	1.81835	121.6902	0.4507	0	0.4507	261.46	0.8231	-4E-04	6	0.5097	1.545	1.6772	172.063
7.9	118.9	0.99	-0.68	-0.64	118.892	0.8327	6	1.82081	121.8519	0.45679	0	0.4568	259.28	0.8359	-4E-04	6	0.5118	1.5371	1.6817	172.0474
8	120.1	0.99	-0.68	-0.74	120.092	0.8244	6	1.81468	121.8764	0.46288	0	0.4629	258.44	0.8276	-4E-04	6	0.5107	1.5253	1.678	172.4503
8.1	121.3	1.03	-0.68	-0.63	121.292	0.8492	6	1.81942	122.1904	0.46899	0	0.469	257.62	0.8525	-4E-04	6	0.5137	1.5188	1.685	173.4293
8.2	119.9	0.99	-0.55	-0.78	119.893	0.8257	6	1.81569	121.8723	0.47509	0	0.4751	251.36	0.829	-3E-04	6	0.5131	1.5081	1.6827	170.2037
8.3	116.7	0.91	-0.6	-0.81	116.693	0.7798	6	1.80949	121.1898	0.48115	0	0.4812	241.53	0.7831	-4E-04	6	0.5114	1.4963	1.6774	164.335
8.4	111.9	0.98	-0.6	-0.81	111.893	0.8758	6	1.85509	121.6296	0.48723	0	0.4872	228.65	0.8797	-4E-04	6	0.5289	1.5071	1.7226	158.675
8.5	107.1	0.98	-0.6	-0.65	107.093	0.9151	6	1.88186	121.5227	0.4933	0	0.4933	216.09	0.9193	-4E-04	6	0.5394	1.5092	1.7492	152.0458
8.6	96.9	0.94	-0.6	-2.09	96.8927	0.9702	6	1.93164	120.9736	0.49935	0	0.4994	193.04	0.9752	-5E-04	6	0.5577	1.5201	1.7964	138.479
8.7	93.8	0.93	-0.68	-2.41	93.7917	0.9916	6	1.9486	120.816	0.50539	0	0.5054	184.58	0.9969	-5E-04	6	0.5646	1.5177	1.8139	133.8067
8.8	99	0.94	-0.67	-2.52	98.9918	0.9496	6	1.91856	121.0259	0.51144	0	0.5114	192.55	0.9545	-5E-04	6	0.5551	1.4972	1.7882	139.3441
8.9	109.5	0.99	-0.6	-2.43	109.493	0.9042	6	1.8711	121.651	0.51753	0	0.5175	210.57	0.9085	-4E-04	6	0.5397	1.471	1.7468	151.502
9	117.4	1.03	-0.6	-2.34	117.393	0.8774	6	1.83938	122.1107	0.52363	0	0.5236	223.19	0.8813	-4E-04	6	0.5297	1.4515	1.7198	160.3208
9.1	120.5	1.07	-0.6	-2.29	120.493	0.888	6	1.83396	122.4531	0.52976	0	0.5298	226.45	0.8919	-4E-04	6	0.529	1.4419	1.7172	163.4745
9.2	121.4	1.1	-0.68	-2.24	121.392	0.9062	6	1.83708	122.6735	0.53589	0	0.5359	225.52	0.9102	-4E-04	6	0.5312	1.4353	1.7223	163.9423
9.3	122.3	1.11	-0.68	-2.27	122.292	0.9077	6	1.83508	122.7578	0.54203	0	0.542	224.62	0.9117	-4E-04	6	0.5315	1.427	1.7223	164.1928
9.4	122.9	1.09	-0.66	-2.55	122.892	0.887	6	1.82703	122.6367	0.54816	0	0.5482	223.19	0.8909	-4E-04	6	0.5295	1.4166	1.7162	163.7933
9.5	121.7	1.05	-0.63	-2.54	121.692	0.8628	6	1.82269	122.3392	0.55428	0	0.5543	218.55	0.8668	-4E-04	6	0.5287	1.4076	1.7133	161.1445
9.6	117	1.02	-0.63	-2.57	116.992	0.8719	6	1.8388	122.031	0.56038	0	0.5604	207.77	0.8761	-4E-04	6	0.5352	1.4053	1.7297	154.6307
9.7	109	0.98	-0.67	-2.45	108.992	0.8992	6	1.87113	121.5655	0.56646	0	0.5665	191.41	0.9039	-4E-04	6	0.5475	1.4079	1.7611	144.2713
9.8	98.5	0.92	-0.68	-2.58	98.4917	0.9341	6	1.91583	120.8562	0.5725	0	0.5725	171.04	0.9396	-5E-04	6	0.5641	1.4141	1.8039	130.8658
9.9	87.8	0.82	-0.68	-2.53	87.7917	0.934	6	1.9552	119.7337	0.57849	0	0.5785	150.76	0.9402	-6E-04	6	0.5786	1.4182	1.8412	116.8939
10	81.1	0.74	-0.65	-2.47	81.092	0.9125	6	1.97661	118.789	0.58442	0	0.5844	137.76	0.9192	-6E-04	6	0.5868	1.4167	1.8619	107.7916
10.1	79.6	0.68	-0.64	-2.56	79.5922	0.8544	6	1.96622	118.1248	0.59033	0	0.5903	133.83	0.8607	-6E-04	6	0.5837	1.4058	1.8529	104.9608
10.2	84.7	0.69	-0.68	-2.39	84.6917	0.8147	6	1.93228	118.383	0.59625	0	0.5963	141.04	0.8205	-6E-04	6	0.5725	1.3887	1.8229	110.3708
10.3	95.4	0.75	-0.75	-2.56	95.3908	0.7862	6	1.88142	119.2833	0.60221	0	0.6022	157.4	0.7912	-6E-04	6	0.5556	1.3677	1.7776	122.5219
10.4	105.6	0.82	-0.74	-2.51	105.591	0.7766	6	1.84284	120.184	0.60822	0	0.6082	172.61	0.7811	-5E-04	6	0.543	1.3508	1.7439	134.0182
10.5	110.3	0.88	-0.68	-2.57	110.292	0.7979	6	1.83494	120.8069	0.61426	0	0.6143	178.55	0.8024	-5E-04	6	0.5414	1.3424	1.7389	139.1407
10.6	111.3	0.92	-0.68	-2.61	111.292	0.8267	6	1.84131	121.1542	0.62032	0	0.6203	178.41	0.8313	-4E-04	6	0.5448	1.3377	1.7471	139.9123
10.7	112.4	0.95	-0.68	-2.55	112.392	0.8453	6	1.84394	121.413	0.62639	0	0.6264	178.43	0.85	-4E-04	6	0.5468	1.332	1.7516	140.6955
10.8	111.8	0.96	-0.68	-2.37	111.792	0.8587	6	1.85004	121.4765	0.63247	0	0.6325	175.76	0.8636	-4E-04	6	0.55	1.3271	1.7591	139.4226
10.9	108.6	0.99	-0.68	-2.38	108.592	0.9117	6	1.87615	121.6309	0.63855	0	0.6386	169.06	0.9171	-5E-04	6	0.5605	1.3272	1.7859	135.4059
11	103.7	1.01	-0.71	-2.25	103.691	0.974	6	1.90984	121.6646	0.64463	0	0.6446	159.85	0.9801	-5E-04	6	0.5737	1.3288	1.8197	129.411
11.1	99.4	1.01	-0.8	-2.15	99.3902	1.0162	6	1.93573	121.5612	0.65071	0	0.6507	151.74	1.0229	-6E-04	6	0.584	1.3283	1.846	123.9561
11.2	95	1.03	-0.77	-2	94.9906	1.0843	6	1.96882	121.5943	0.65679	0	0.6568	143.63	1.0919	-6E-04	6	0.597	1.3294	1.8795	118.5181
11.3	91.4	0.79	-0.83	-1.98	91.3898	0.8644	6	1.92095	119.559	0.66277	0	0.6628	136.89	0.8707	-7E-04	6	0.5795	1.3114	1.8328	112.4465
11.4	91.8	0.83	-0.77	-2.38	91.7906	0.9042	6	1.93128	119.9311	0.66876	0	0.6688	136.25	0.9109	-6E-04	6	0.5844	1.3075	1.8448	112.5986
11.5	89.4	0.85	-0.83	-2.31	89.3898	0.9509	6	1.95374	120.0406	0.67477	0	0.6748	131.48	0.9581	-7E-04	6	0.5936	1.3061	1.8681	109.5057
11.6	81.9	0.83	-0.83	-2.22	81.8898	1.0136	6	2.0008	119.6527	0.68075	0	0.6808	119.29	1.0221	-7E-04	6	0.6116	1.3096	1.9147	100.5126
11.7	76.5	0.8	-0.83	-1.83	76.4898	1.0459	6	2.03259	119.2169	0.68671	0	0.6867	110.39	1.0554	-8E-04	6	0.624	1.3097	1.9466	93.82578
11.8	65.5	0.85	-0.9	-1.8	65.489	1.2979	5	2.14347	119.2818	0.69267	0	0.6927	93.545	1.3118	-0.001	5	0.6658	1.3259	2.0555	81.19536
11.9	54.6	1	-0.9	-2.21	54.589	1.8319	5	2.29946	120.0269	0.69867	0	0.6987	77.132	1.8556	-0.001	5	0.7247	1.3509	2.2091	68.8026
12	41.4	1.11	-0.9	-2.06	41.389	2.6819	4	2.49858	120.1154	0.70468	0	0.7047	57.734	2.7283	-0.002	5	0.7995	1.384	2.4049	53.21624
12.1	33.1	1.04	-0.9	-2.08	33.089	3.143	4	2.61712	119.0929	0.71063	0	0.7106	45.563	3.212	-0.002	4	0.8449	1.3998	2.5221	42.83387
12.2	28.3	0.93	-0.96	-2.09	28.2883	3.2876	4	2.68147	117.8926	0.71653	0	0.7165	38.48	3.373	-0.003	4	0.8697	1.4036	2.5868	36.57441
12.3	25	0.87	-0.83	-1.9	24.9898	3.4814	4	2.73865	117.1022	0.72238	0	0.7224	33.594	3.5851	-0.002	4	0.8922	1.4057	2.6451	32.23918
12.4	27.5	0.79	-0.85	-1.82	27.4896	2.8738	4	2.65363	116.629	0.72822	0	0.7282	36.749	2.952	-0.002	4	0.8614	1.3797	2.5634	34.89409
12.5	30.7	0.74	-1.19	-1.97	30.6854	2.4116	4	2.56862	116.4188	0.73404	0	0.734	40.804	2.4707	-0.003	4	0.8306	1.3549	2.4817	38.35271
12.6	28.2	0.69	-1.2	-1.8	28.1853	2.4481	4	2.6016	115.6996	0.73982	0	0.7398	37.097	2.5141	-0.003	4	0.8439	1.3525	2.5161	35.08259
12.7	23.3	0.63	-1.05	-1.95	23.2872	2.7054	4	2.69365	114.5684	0.74555	0	0.7456	30.235	2.7948	-0.003	4	0.8796	1.3606	2.6092	28.98675
12.8	18.5	0.58	-1	-2.23	18.4878	3.1372	4	2.81228	113.4004	0.75122	0	0.7512	23.61	3.2701	-0.004	4	0.9257	1.3731	2.7299	23.01719
12.9	16.5	0.52	-1.13	-2.06	16.4862	3.1542	3	2.85327	112.3219	0.75684	0	0.7568	20.783	3.3059	-0.005	4	0.9427	1.3715	2.7737	20.3875
13	15.9	0.45	-1.13	-2.08	15.8862	2.8327	4	2.83838	111.1736	0.76239	0	0.7624	19.837	2.9755	-0.005	4	0.9383	1.3601	2.7616	19.44003
13.1	15.6	0.39	-1.18	-2.26	15.5856	2.5023	4	2.81378	110.0799	0.7679	0	0.7679	19.296	2.632	-0.006	4	0.9302	1.3474	2.7396	18.86934
13.2	15.3	0.37	-1.36	-2.2	15.2834	2.4209	4	2.81253	109.647	0.77338	0	0.7734	18.762	2.55	-0.007	4	0.931	1.3389	2.7409	18.36006
13.3	15.4	0.37	-1.34	-2.17	15.3836	2.4052	4	2.80857	109.6629	0.77886	0	0.7789	18.751	2.5334	-0.007	4	0.9306	1.3299	2.7393	18.35679
13.4	15.6	0.37	-1.23	-1.9	15.5849	2.3741	4	2.80072	109.6947	0.78435	0	0.7844	18.87	2.4999	-0.006	4	0.9287	1.3205	2.7337	18.47149
13.5	15.5	0.36	-1.22	-2.16	15.4851	2.3248	4	2.79784	109.4785	0.78982	0	0.7898	18.606	2.4498	-0.006	4	0.9288	1.3121	2.7333	18.2224
13.6	15.4	0.37	-1.21	-1.76	15.3852	2.4049	4	2.80851	109.6632	0.79531	0	0.7953	18.345	2.536	-0.006	4	0.9341	1.3056	2.7464	18.0028
13.7	15.8	0.37	-1.07	-1.79	15.7869	2.3437	4	2.79293	109.7261	0.80079	0	0.8008	18.714	2.469	-0.005	4	0.9292	1.2955	2.7328	18.34831
13.8	16.2	0.39	-1.18	-1.72	16.1856	2.4096	4	2.79093	110.1721	0.8063	0	0.8063	19.074	2.5359	-0.006	4	0.9294	1.2874	2.7329	18.71143
13.9	17.2	0.43	-1.14	-1.64	17.1861	2.502	4	2.77913	111.0328	0.81185	0	0.8119	20.169	2.6261	-0.005	4	0.9258	1.278	2.7227	19.77633

14	17.9	0.45	-0.94	-1.48	17.8885	2.5156	4	2.76638	111.4631	0.81743	0	0.8174	20.884	2.636	-0.004	4	0.9219	1.2686	2.7118	20.46726
14.1	18	0.46	-1.05	-1.42	17.9872	2.5574	4	2.76864	111.6374	0.82301	0	0.823	20.855	2.68	-0.004	4	0.9239	1.2613	2.7163	20.46022
14.2	23.8	0.54	-0.4	-1.72	23.7951	2.2694	4	2.64	113.4931	0.82868	0	0.8287	27.714	2.3513	-0.001	4	0.8752	1.2385	2.5877	26.88178
14.3	33.5	0.7	-0.51	-1.73	33.4938	2.0899	4	2.50024	116.2258	0.83449	0	0.8345	39.137	2.1433	-0.001	5	0.8228	1.2157	2.4494	37.52449
14.4	42.6	0.82	-1.17	-1.29	42.5857	1.9255	5	2.39643	117.9692	0.84039	0	0.8404	49.674	1.9643	-0.002	5	0.7845	1.1981	2.3481	47.26789
14.5	44.8	0.92	-1.21	-1.38	44.7852	2.0543	5	2.39732	118.934	0.84634	0	0.8463	51.916	2.0938	-0.002	5	0.7859	1.1918	2.3509	49.49211
14.6	51	0.97	-1.28	-1.34	50.9843	1.9026	5	2.33275	119.6375	0.85232	0	0.8523	58.818	1.9349	-0.002	5	0.7624	1.1793	2.2887	55.87259
14.7	72.7	0.96	-1.43	-1.71	72.6825	1.3208	5	2.11302	120.4265	0.85834	0	0.8583	83.678	1.3366	-0.001	5	0.6806	1.153	2.0729	78.26761
14.8	85.9	0.91	-1.43	-1.83	85.8825	1.0596	6	1.99648	120.4421	0.86436	0	0.8644	98.359	1.0704	-0.001	6	0.6376	1.1376	1.9592	91.40699
14.9	95.3	0.83	-1.38	-1.82	95.2831	0.8711	6	1.90854	120.0221	0.87037	0	0.8704	108.47	0.8791	-0.001	6	0.605	1.1254	1.8737	100.42
15	95.6	0.76	-1.36	-1.68	95.5834	0.7951	6	1.88362	119.3851	0.87633	0	0.8763	108.07	0.8025	-0.001	6	0.5963	1.119	1.8502	100.154
15.1	92.6	0.73	-1.38	-1.77	92.5831	0.7885	6	1.89262	119.0127	0.88228	0	0.8823	103.94	0.7961	-0.001	6	0.6007	1.1154	1.8604	96.66149
15.2	92.1	0.73	-1.4	-1.75	92.0829	0.7928	6	1.89591	118.9995	0.88823	0	0.8882	102.67	0.8005	-0.001	6	0.6028	1.1113	1.865	95.77462
15.3	96.2	0.73	-1.36	-1.65	96.1834	0.759	6	1.86947	119.1057	0.89419	0	0.8942	106.56	0.7661	-0.001	6	0.5936	1.1051	1.8402	99.51881
15.4	105.1	0.79	-1.29	-1.63	105.084	0.7518	6	1.83606	119.8995	0.90019	0	0.9002	115.74	0.7583	-9E-04	6	0.5818	1.0986	1.8087	108.1721
15.5	120.2	0.87	-1.34	-1.61	120.184	0.7239	6	1.77961	120.9328	0.90623	0	0.9062	131.62	0.7294	-8E-04	6	0.5614	1.0909	1.7544	122.9719
15.6	134	0.95	-1.28	-1.78	133.984	0.709	6	1.73676	121.8416	0.91232	0	0.9123	145.86	0.7139	-7E-04	6	0.5461	1.0843	1.7134	136.3684
15.7	144.7	1	-1.28	-1.87	144.684	0.6912	6	1.70369	122.4043	0.91844	0	0.9184	156.53	0.6956	-6E-04	6	0.5344	1.0786	1.682	146.5476
15.8	152.5	1	-1.22	-1.65	152.485	0.6558	6	1.67165	122.5324	0.92457	0	0.9246	163.93	0.6598	-6E-04	6	0.523	1.0731	1.6514	153.7094
15.9	156.3	0.99	-1.2	-1.75	156.285	0.6335	6	1.65393	122.5189	0.9307	0	0.9307	166.92	0.6373	-6E-04	6	0.5171	1.0686	1.635	156.8937
16	157.3	0.98	-1.13	-1.84	157.286	0.6231	6	1.64732	122.4602	0.93682	0	0.9368	166.89	0.6268	-5E-04	6	0.5153	1.0647	1.6296	157.3295
16.1	155.9	0.95	-1.08	-1.81	155.887	0.6094	6	1.64448	122.2109	0.94293	0	0.9429	164.32	0.6131	-5E-04	6	0.5149	1.0611	1.6279	155.3869
16.2	150.2	0.96	-1.05	-1.87	150.187	0.6392	6	1.66997	122.1966	0.94904	0	0.949	157.25	0.6433	-5E-04	6	0.5252	1.0588	1.6543	149.3361
16.3	143	1.02	-1.05	-1.88	142.987	0.7134	6	1.71625	122.5204	0.95517	0	0.9552	148.7	0.7182	-5E-04	6	0.5435	1.0572	1.7016	141.9109
16.4	129.1	1.15	-1.05	-2.05	129.087	0.8909	6	1.81189	123.1487	0.96132	0	0.9613	133.28	0.8976	-6E-04	6	0.5806	1.0573	1.7981	128.0244
16.5	114.7	1.48	-0.99	-1.85	114.688	1.2905	6	1.95707	124.7062	0.96756	0	0.9676	117.53	1.3014	-6E-04	6	0.6365	1.0586	1.9442	113.7727
16.6	98.7	1.68	-1.02	-2.06	98.6875	1.7023	5	2.08719	125.2671	0.97382	0	0.9738	100.34	1.7193	-8E-04	5	0.6868	1.0587	2.0756	97.76557
16.7	81.1	1.67	-0.9	-2.07	81.089	2.0595	5	2.206	124.7444	0.98006	0	0.9801	81.739	2.0847	-8E-04	5	0.733	1.0578	2.196	80.08362
16.8	69.1	1.63	-0.9	-2.12	69.089	2.3593	5	2.29704	124.1764	0.98627	0	0.9863	69.051	2.3934	-1E-03	5	0.7687	1.0555	2.289	67.93721
16.9	68.2	1.59	-0.87	-2.02	68.1894	2.3317	5	2.29761	123.9627	0.99247	0	0.9925	67.707	2.3662	-9E-04	5	0.7699	1.0505	2.2912	66.71631
17	67.6	1.45	-0.83	-2.01	67.5898	2.1453	5	2.27556	123.2667	0.99863	0	0.9986	66.683	2.1775	-9E-04	5	0.7624	1.0451	2.2707	65.77203
17.1	60.3	1.18	-0.8	-2.26	60.2902	1.9572	5	2.28557	121.4803	1.0047	0	1.0047	59.008	1.9904	-1E-03	5	0.7673	1.0405	2.283	58.30106
17.2	51.3	1.08	-0.75	-2.21	51.2908	2.1056	5	2.35933	120.4381	1.01073	0	1.0107	49.747	2.148	-0.001	5	0.7968	1.0372	2.3596	49.28548
17.3	48.8	0.8	-0.75	-2.04	48.7908	1.6397	5	2.3067	118.1203	1.01663	0	1.0166	46.993	1.6745	-0.001	5	0.7778	1.0316	2.309	46.57688
17.4	50.3	0.79	-0.75	-2.09	50.2908	1.5709	5	2.28483	118.1021	1.02254	0	1.0225	48.182	1.6035	-0.001	5	0.7702	1.0267	2.2884	47.80527
17.5	44.9	0.75	-0.72	-2.17	44.8912	1.6707	5	2.34015	117.4449	1.02841	0	1.0284	42.651	1.7099	-0.001	5	0.7926	1.0228	2.3466	42.40006
17.6	31.5	0.66	-0.68	-2.08	31.4917	2.0958	4	2.52212	115.6449	1.03419	0	1.0342	29.451	2.167	-0.002	4	0.865	1.02	2.5357	29.35975
17.7	19.7	0.55	-0.68	-1.89	19.6917	2.7931	4	2.75988	113.1657	1.03985	0	1.0399	17.937	2.9488	-0.003	4	0.961	1.0169	2.7871	17.92488
17.8	15	0.51	-0.68	-1.85	14.9917	3.4019	3	2.90599	111.9481	1.04545	0	1.0455	13.34	3.6569	-0.004	3	1	1.0121	2.9458	13.33997
17.9	12	0.5	-0.68	-1.76	11.9917	4.1696	3	3.03666	111.2586	1.05101	0	1.051	10.41	4.5701	-0.004	3	1	1.0068	3.0902	10.40967
18	10.7	0.44	-0.57	-1.73	10.693	4.1148	3	3.07298	110.0437	1.05651	0	1.0565	9.1211	4.566	-0.004	3	1	1.0015	3.1357	9.12106
18.1	10.2	0.37	-0.16	-1.75	10.198	3.6282	3	3.05737	108.6603	1.06195	0	1.062	8.6032	4.0499	-0.001	3	1	0.9964	3.1253	8.60317
18.2	9.8	0.38	0.52	-1.82	9.80636	3.875	3	3.08788	108.7599	1.06738	0	1.0674	8.1873	4.3483	0.0043	3	1	0.9913	3.1608	8.1873
18.3	11.5	0.43	1	-1.86	11.5122	3.7352	3	3.02219	110.0555	1.07289	0	1.0729	9.7302	4.119	0.0069	3	1	0.9862	3.0865	9.73016
18.4	23.4	0.46	1.47	-1.67	23.418	1.9643	4	2.6087	112.2809	1.0785	0	1.0785	20.713	2.0591	0.0047	4	0.9081	0.9828	2.6434	20.74986
18.5	42.6	0.6	1.05	-1.46	42.6129	1.408	5	2.31328	115.6852	1.08428	0	1.0843	38.3	1.4448	0.0018	5	0.7911	0.9809	2.3357	38.49643
18.6	48.7	0.83	-1.08	-1.42	48.6868	1.7048	5	2.31798	118.3845	1.0902	0	1.0902	43.658	1.7438	-0.002	5	0.793	0.9766	2.3398	43.92933
18.7	42	0.81	-2.44	-1.5	41.9701	1.9299	5	2.40198	117.8439	1.0961	0	1.0961	37.291	1.9817	-0.004	5	0.8269	0.9713	2.428	37.51899
18.8	38.9	0.74	-2.71	-1.65	38.8668	1.9039	5	2.42442	116.9953	1.10195	0	1.102	34.271	1.9595	-0.005	5	0.8369	0.9666	2.4536	34.49879
18.9	45.1	0.79	-2.71	-1.65	45.0668	1.753	5	2.35174	117.8346	1.10784	0	1.1078	39.68	1.7971	-0.004	5	0.809	0.9635	2.3796	40.02967
19	54.1	0.94	-2.82	-1.71	54.0655	1.7386	5	2.28812	119.5507	1.11381	0	1.1138	47.541	1.7752	-0.004	5	0.7844	0.9606	2.3143	48.06965
19.1	54.2	1.04	-3.04	-1.75	54.1628	1.9201	5	2.31528	120.2948	1.11983	0	1.1198	47.367	1.9607	-0.004	5	0.7956	0.9559	2.343	47.91907
19.2	45.5	0.99	-3.16	-1.7	45.4613	2.1777	5	2.40863	119.5071	1.1258	0	1.1258	39.381	2.233	-0.005	5	0.8333	0.9496	2.4411	39.79046
19.3	40.5	0.91	-3.16	-1.65	40.4613	2.2491	5	2.45638	118.6064	1.13174	0	1.1317	34.752	2.3138	-0.006	4	0.8533	0.9442	2.4929	35.09624
19.4	41	1.01	-3.16	-1.68	40.9613	2.4657	4	2.47808	119.3993	1.1377	0	1.1377	35.003	2.5362	-0.006	4	0.8624	0.9394	2.516	35.35462
19.5	35.7	1.1	-3.61	-1.79	35.6558	3.0851	4	2.58737	119.6855	1.14369	0	1.1437	30.176	3.1873	-0.008	4	0.9062	0.9319	2.6304	30.39701
19.6	25.2	1.01	-4.23	-1.64	25.1482	4.0162	3	2.77691	118.2094	1.1496	0	1.1496	20.876	4.2086	-0.013	3	0.9835	0.9217	2.8324	20.90429
19.7	18.4	0.78	-4.11	-1.6	18.3497	4.2508	3	2.8972	115.5499	1.15538	0	1.1554	14.882	4.5364	-0.017	3	1	0.9158	2.9665	14.88199
19.8	14.7	0.65	-4.03	-1.69	14.6507	4.4367	3	2.98473	113.6668	1.16106	0	1.1611	11.618	4.8185	-0.022	3	1	0.9113	3.0667	11.61835
19.9	11.7	0.54	-3.91	-1.61	11.6521	4.6343	3	3.07453	111.7517	1.16665	0	1.1667	8.9877	5.15	-0.027	3	1	0.907	3.1724	8.98771
20	12.1	0.44	-3.73	-1.57	12.0543	3.6501	3	3.00018	110.336	1.17216	0	1.1722	9.2838	4.0433	-0.025	3	1	0.9027	3.0981	9.28383
20.1	18.1	0.46	-3.47	-1.55	18.0575	2.5474	4	2.76627	111.6469	1.17775	0	1.1778	14.332	2.7252	-0.015	4	0.9894	0.8994	2.8445	14.34853
20.2	27.3	0.59	-3.39	-1.74	27.2585	2.1645	4	2.58045	114.4725	1.18347	0	1.1835	22.033	2.2627	-0.009	4	0.9129	0.9028	2.643	22.24857
20.3	45	0.6	-3.33	-2.12	44.9592	1.3345	5	2.28075	115.8159	1.18926	0	1.1893	36.804	1.3708	-0.005	5	0.7938	0.9114	2.3297	37.70169
20.4	68.3	0.63	-4.33	-2.01	68.247	0.9231	6	2.04008	117.1909	1.19512	0	1.1951	56.105	0.9396	-0.005	5	0.6994	0.9184	2.081	58.19624
20.5	87.4	0.53	-6.19	-1.9	87.3242	0.6069	6	1.84914	116.5274	1.20095	0	1.201	71.713	0.6154	-0.005	6	0.6256	0.9238	1.8864	75.19457
20.6	107.9	0.48	-8.04	-2.04	107.802	0.4453	6	1.70049	116.3161	1.20676	0	1.2068	88.331	0.4503	-0.005	6	0.5683	0.928	1.7351	93.48947
20.7	110.2	0.53	-10.46	-2.14	110.072	0.4815	6	1.7104	117.092	1.21262	0	1.2126	89.772	0.4869	-0.007	6	0.5726	0.9249	1.7459	95.15655
20.8	81.7	0.71	-7.4	-1.19	81.6094	0.87	6	1.96207	118.5017	1.21854	0	1.2185	65.973	0.8832	-0.007	6	0.6714	0.9096	2.0045	69.10525
20.9	68.9	0.9	-5.08	-0.17	68.8378	1.3074	5	2.12854	119.8217	1.22453	0	1.2245	55.216	1.3311	-0.005	5	0.737	0.8979	2.1761	57.37774
21	52.1	1.03	-5.39	-0.1	52.034	1.9795	5	2.33711	120.1263	1.23054	0	1.2305	41.286	2.0274	-0.008	5	0.8199	0.8836	2.3929	42.4234

21.1	40.1	1.05	-5.27	-0.09	40.0355	2.6227	4	2.50309	119.6277	1.23652	0	1.2365	31.378	2.7063	-0.01	4	0.8869	0.8709	2.568	31.93555
21.2	33.7	1.02	-5.1	-0.06	33.6376	3.0323	4	2.60152	118.9909	1.24247	0	1.2425	26.073	3.1486	-0.011	4	0.9275	0.8616	2.6738	26.37866
21.3	29	1.01	-4.97	-0.14	28.9392	3.4901	4	2.69088	118.5519	1.2484	0	1.2484	22.181	3.6474	-0.013	4	0.9646	0.8526	2.7706	22.31126
21.4	26.3	0.9	-4.85	-0.25	26.2406	3.4298	4	2.71825	117.4694	1.25427	0	1.2543	19.921	3.602	-0.014	3	0.9775	0.8468	2.8037	19.9974
21.5	27.4	0.83	-4.61	-0.25	27.3436	3.0355	4	2.6705	116.9774	1.26012	0	1.2601	20.699	3.1821	-0.013	4	0.9595	0.8457	2.7558	20.84606
21.6	35.6	0.8	-4.8	-0.21	35.5413	2.2509	4	2.50013	117.3475	1.26599	0	1.266	27.074	2.3341	-0.01	4	0.8916	0.8522	2.5766	27.60562
21.7	45.7	0.73	-5.54	-0.19	45.6322	1.5998	5	2.32295	117.2871	1.27185	0	1.2719	34.879	1.6456	-0.009	5	0.8217	0.8597	2.3924	36.04177
21.8	54.2	0.64	-6.41	-0.22	54.1215	1.1825	5	2.18473	116.7405	1.27769	0	1.2777	41.359	1.2111	-0.009	5	0.7679	0.8652	2.2502	43.20969
21.9	59.9	0.61	-7.1	-0.27	59.8131	1.0198	5	2.11185	116.6331	1.28352	0	1.2835	45.601	1.0422	-0.009	5	0.7398	0.8669	2.1757	47.95101
22	62.3	0.68	-7.87	-0.28	62.2037	1.0932	5	2.11583	117.5235	1.2894	0	1.2894	47.242	1.1163	-0.009	5	0.7417	0.8636	2.18	49.71744
22.1	64.8	0.76	-8.06	-0.28	64.7014	1.1746	5	2.12095	118.4334	1.29532	0	1.2953	48.95	1.1986	-0.009	5	0.7441	0.8603	2.1855	51.55104
22.2	68.6	0.84	-8.06	-0.19	68.5014	1.2263	5	2.11284	119.3049	1.30128	0	1.3013	51.641	1.25	-0.009	5	0.7412	0.8579	2.1772	54.48158
22.3	70.4	0.95	-9.08	-0.25	70.2889	1.3516	5	2.13061	120.2682	1.3073	0	1.3073	52.767	1.3772	-0.009	5	0.7485	0.8536	2.1957	55.64892
22.4	74.5	1.11	-9.97	-0.31	74.378	1.4924	5	2.13946	121.545	1.31338	0	1.3134	55.631	1.5192	-0.01	5	0.7521	0.85	2.2044	58.69266
22.5	80.8	1.05	-10.82	-0.21	80.6676	1.3016	5	2.07414	121.3364	1.31944	0	1.3194	60.138	1.3233	-0.01	5	0.7272	0.8517	2.1381	63.87055
22.6	89.9	1.13	-11.5	-0.15	89.7592	1.2589	6	2.0294	122.1341	1.32555	0	1.3256	66.715	1.2778	-0.009	5	0.7098	0.8522	2.0918	71.22291
22.7	95.9	1.17	-12.04	-0.17	95.7526	1.2219	6	1.99966	122.5463	1.33168	0	1.3317	70.904	1.2391	-0.009	5	0.6986	0.8516	2.0615	75.99194
22.8	103.9	1.13	-12.34	-0.2	103.749	1.0892	6	1.94072	122.4874	1.3378	0	1.3378	76.552	1.1034	-0.009	6	0.6761	0.8534	2.0016	82.59369
22.9	114.8	1.04	-12.51	-0.2	114.647	0.9071	6	1.85651	122.1237	1.34391	0	1.3439	84.309	0.9179	-0.008	6	0.6434	0.8574	1.9158	91.81144
23	117.1	0.88	-12.73	-0.14	116.944	0.7525	6	1.79927	120.9498	1.34995	0	1.35	85.628	0.7613	-0.008	6	0.6221	0.8594	1.8589	93.88571
23.1	117.2	0.63	-12.84	-0.14	117.043	0.5383	6	1.71418	118.5065	1.35588	0	1.3559	85.322	0.5446	-0.008	6	0.5901	0.8639	1.7744	94.45014
23.2	112.2	0.53	-12.75	-0.13	112.044	0.473	6	1.69978	117.1353	1.36174	0	1.3617	81.28	0.4789	-0.008	6	0.5857	0.8627	1.7619	90.23615
23.3	100.1	0.54	-12.83	-0.08	99.943	0.5403	6	1.77254	116.9933	1.36759	0	1.3676	72.08	0.5478	-0.009	6	0.6153	0.854	1.839	79.55748
23.4	82.1	0.8	-13.04	-0.16	81.9404	0.9763	6	1.99067	119.3848	1.37356	0	1.3736	58.656	0.993	-0.012	5	0.7015	0.8327	2.0646	63.40594
23.5	59.5	1.1	-13.09	-0.17	59.3398	1.8537	5	2.27525	120.9279	1.3796	0	1.3796	42.012	1.8979	-0.016	5	0.8151	0.8055	2.3615	44.12434
23.6	41.6	1.09	-12.89	-0.2	41.4422	2.6302	4	2.49259	119.9855	1.3856	0	1.3856	28.909	2.7212	-0.023	4	0.9039	0.7837	2.594	29.66801
23.7	32.8	0.95	-11.37	-0.63	32.6608	2.9087	4	2.59947	118.3988	1.39152	0	1.3915	22.471	3.0381	-0.026	4	0.9495	0.771	2.7131	22.78426
23.8	32.3	0.9	-11.3	-0.57	32.1617	2.7984	4	2.59374	117.9657	1.39742	0	1.3974	22.015	2.9255	-0.026	4	0.9485	0.7681	2.7096	22.33287
23.9	39.3	0.8	-11.3	-0.46	39.1617	2.0428	5	2.44089	117.5841	1.4033	0	1.4033	26.907	2.1187	-0.022	4	0.8876	0.7783	2.5488	27.7748
24	52.1	0.73	-11.37	-0.49	51.9608	1.4049	5	2.24383	117.6039	1.40918	0	1.4092	35.873	1.4441	-0.016	5	0.8088	0.7932	2.3411	37.89295
24.1	55.4	0.69	-11.5	-0.54	55.2592	1.2487	5	2.19157	117.3416	1.41505	0	1.4151	38.051	1.2815	-0.015	5	0.7888	0.7951	2.2877	40.46061
24.2	53.9	0.72	-11.58	-0.6	53.7583	1.3393	5	2.21948	117.5859	1.42093	0	1.4209	36.833	1.3757	-0.016	5	0.8006	0.7898	2.318	39.06333
24.3	48.3	0.96	-11.6	-0.55	48.158	1.9934	5	2.36475	119.4225	1.4269	0	1.4269	32.75	2.0543	-0.018	5	0.8585	0.7736	2.4696	34.16524
24.4	40	1.23	-11.65	-0.55	39.8574	3.086	4	2.55134	120.7745	1.43293	0	1.4329	26.815	3.2011	-0.022	4	0.9337	0.7534	2.6663	27.36001
24.5	32.8	1.32	-11.72	-0.52	32.6566	4.0421	4	2.69427	120.8052	1.43898	0	1.439	21.694	4.2284	-0.027	3	0.993	0.7369	2.8208	21.74113
24.6	26.8	1.23	-11.75	-0.51	26.6562	4.6143	3	2.79813	119.7934	1.44496	0	1.445	17.448	4.8788	-0.034	3	1	0.7323	2.9337	17.44763
24.7	22.7	1.13	-11.75	-0.48	22.5562	5.0097	3	2.87588	118.7656	1.4509	0	1.4509	14.546	5.3541	-0.04	3	1	0.7293	3.0201	14.5463
24.8	22.3	1.06	-11.75	-0.43	22.1562	4.7842	3	2.86839	118.254	1.45682	0	1.4568	14.209	5.1209	-0.041	3	1	0.7263	3.0155	14.20864
24.9	25.2	0.97	-11.75	-0.5	25.0562	3.8713	4	2.76766	117.9048	1.46271	0	1.4627	16.13	4.1113	-0.036	3	1	0.7234	2.9124	16.12996
25	24.9	0.87	-11.77	-0.51	24.7559	3.5143	4	2.74441	117.0793	1.46857	0	1.4686	15.857	3.7359	-0.036	3	1	0.7205	2.8922	15.85723
25.1	21.2	0.82	-11.83	-0.5	21.0552	3.8945	3	2.82696	116.2513	1.47438	0	1.4744	13.281	4.1878	-0.044	3	1	0.7177	2.9833	13.28074
25.2	17.1	0.8	-11.8	-0.54	16.9556	4.7182	3	2.95256	115.5424	1.48015	0	1.4802	10.455	5.1695	-0.055	3	1	0.7149	3.1215	10.45527
25.3	15.5	0.77	-11.68	-0.57	15.357	5.014	3	3.0025	115.0213	1.48591	0	1.4859	9.3351	5.5511	-0.061	3	1	0.7121	3.1793	9.33514
25.4	16.6	0.77	-11.75	-0.46	16.4562	4.6791	3	2.96022	115.1899	1.49167	0	1.4917	10.032	5.1455	-0.057	3	1	0.7094	3.1344	10.03209
25.5	21.1	0.79	-11.68	-0.49	20.957	3.7696	3	2.81948	115.9672	1.49746	0	1.4975	12.995	4.0597	-0.043	3	1	0.7066	2.9825	12.99502
25.6	30.2	0.85	-11.75	-0.51	30.0562	2.828	4	2.61926	117.3823	1.50333	0	1.5033	18.993	2.9769	-0.03	4	0.9752	0.71	2.7667	19.15921
25.7	35.7	0.87	-11.69	-0.53	35.5569	2.4468	4	2.52293	117.9624	1.50923	0	1.5092	22.56	2.5552	-0.025	4	0.9357	0.7173	2.6621	23.08049
25.8	46.2	0.86	-11.68	-0.4	46.057	1.8673	5	2.36159	118.5089	1.51516	0	1.5152	29.398	1.9308	-0.019	5	0.87	0.7317	2.4886	30.80172
25.9	64.4	0.91	-11.68	-0.49	64.257	1.4162	5	2.17362	119.7346	1.52114	0	1.5211	41.243	1.4505	-0.013	5	0.7935	0.7497	2.2866	44.45211
26	68.6	1.11	-11.68	-0.56	68.457	1.6215	5	2.19027	121.3427	1.52721	0	1.5272	43.825	1.6585	-0.013	5	0.7997	0.7457	2.3021	47.16752
26.1	62.4	1.28	-11.73	-0.55	62.2564	2.056	5	2.2894	122.1538	1.53332	0	1.5333	39.602	2.1079	-0.014	5	0.8398	0.7323	2.4069	42.02708
26.2	54.4	1.39	-11.75	-0.51	54.2562	2.5619	5	2.39794	122.4215	1.53944	0	1.5394	34.244	2.6367	-0.016	4	0.8843	0.7178	2.5232	35.7621
26.3	51.6	0.92	-11.75	-0.53	51.4562	1.7879	5	2.31241	119.2727	1.5454	0	1.5454	32.296	1.8433	-0.017	5	0.8534	0.7238	2.4409	34.14121
26.4	55.6	0.88	-11.71	-0.57	55.4567	1.5868	5	2.25442	119.13	1.55136	0	1.5514	34.747	1.6325	-0.016	5	0.8307	0.7277	2.3805	37.07294
26.5	61.4	1.02	-11.72	-0.57	61.2566	1.6651	5	2.23448	120.4529	1.55738	0	1.5574	38.333	1.7086	-0.014	5	0.8222	0.7278	2.3573	41.06059
26.6	64.3	1.14	-11.79	-0.4	64.1557	1.7769	5	2.23761	121.3795	1.56345	0	1.5635	40.035	1.8213	-0.014	5	0.8234	0.7251	2.3597	42.89288
26.7	64.8	1.21	-11.83	-0.2	64.6552	1.8715	5	2.24994	121.8345	1.56954	0	1.5695	40.194	1.918	-0.014	5	0.8287	0.7213	2.3731	43.00203
26.8	64.2	1.33	-11.83	-0.19	64.0552	2.0763	5	2.2831	122.5036	1.57567	0	1.5757	39.653	2.1287	-0.014	5	0.8423	0.7151	2.408	42.22251
26.9	63.1	1.51	-11.86	-0.16	62.9548	2.3985	5	2.33121	123.3901	1.58184	0	1.5818	38.799	2.4604	-0.014	5	0.8618	0.7072	2.4584	41.01653
27	62.4	1.66	-11.9	-0.17	62.2543	2.6665	5	2.3665	124.0558	1.58804	0	1.588	38.202	2.7363	-0.014	4	0.8762	0.7007	2.4957	40.17137
27.1	63	1.74	-11.9	-0.17	62.8543	2.7683	5	2.37488	124.4236	1.59426	0	1.5943	38.425	2.8404	-0.014	4	0.88	0.6972	2.5049	40.36266
27.2	66	1.76	-11.88	-0.12	65.8546	2.6726	5	2.34971	124.6209	1.60049	0	1.6005	40.146	2.7391	-0.013	4	0.8704	0.6975	2.4788	42.35874
27.3	68.3	1.78	-11.86	-0.16	68.1548	2.6117	5	2.33207	124.7874	1.60673	0	1.6067	41.418	2.6748	-0.013	5	0.8638	0.6971	2.4608	43.84251
27.4	76.9	1.72	-11.98	-0.13	76.7534	2.2409	5	2.24867	124.8263	1.61297	0	1.613	46.585	2.2891	-0.011	5	0.8308	0.7045	2.373	50.03051
27.5	96	1.59	-11.98	-0.15	95.8534	1.6588	5	2.08852	124.7932	1.61921	0	1.6192	58.198	1.6873	-0.009	5	0.7662	0.7218	2.2037	64.28559
27.6	106.9	1.5	-11.98	-0.28	106.753	1.4051	6	2.00505	124.6295	1.62544	0	1.6254	64.676	1.4268	-0.008	5	0.7332	0.73	2.1165	72.52444
27.7	109.2	1.48	-12.05	-0.26	109.053	1.3571	6	1.988	124.5833	1.63167	0	1.6317	65.835	1.3778	-0.008	5	0.7271	0.7299	2.0995	74.0961
27.8	109.7	1.46	-11.98	-0.3	109.553	1.3327	6	1.98117	124.4949	1.6379	0	1.6379	65.887	1.3529	-0.008	5	0.7251	0.7285	2.0935	74.2961
27.9	109.7	1.43	-11.98	-0.19	109.553	1.3053	6	1.97506	124.343	1.64411	0	1.6441	65.634	1.3252	-0.008	5	0.7234	0.727	2.0884	74.14184
28	110.6	1.35	-11.98	-0.26	110.453	1.2222	6	1.95322	123.9417	1.65031	0	1.6503	65.929	1.2408	-0.008	5	0.7156	0.7276	2.0672	74.812
28.1	111.2	1.3	-11.98	-0.26	111.053	1.1706	6	1.93897	123.6788	1.6565	0	1.6565	66.041	1.1883	-0.008	5	0.7108	0.7272	2.0536	75.1829

28.2	111.8	1.29	-11.98	-0.18	111.653	1.1554	6	1.93344	123.6354	1.66268	0	1.6627	66.153	1.1728	-0.008	5	0.7092	0.7258	2.0489	75.44291
28.3	112.1	1.29	-11.91	-0.18	111.954	1.1523	6	1.93179	123.642	1.66886	0	1.6689	66.084	1.1697	-0.008	5	0.7093	0.7239	2.0481	75.44583
28.4	110.1	1.31	-11.97	-0.2	109.953	1.1914	6	1.94729	123.7106	1.67505	0	1.6751	64.642	1.2098	-0.008	5	0.7162	0.7197	2.0655	73.6445
28.5	109.4	1.32	-11.98	-0.25	109.253	1.2082	6	1.9534	123.7506	1.68123	0	1.6812	63.984	1.2271	-0.008	5	0.7193	0.7167	2.073	72.86529
28.6	112.1	1.35	-11.98	-0.28	111.953	1.2059	6	1.94495	123.9746	1.68743	0	1.6874	65.345	1.2243	-0.008	5	0.7164	0.7158	2.0644	74.59512
28.7	114.1	1.42	-11.98	-0.19	113.953	1.2461	6	1.94884	124.3877	1.69365	0	1.6937	66.283	1.2649	-0.008	5	0.7182	0.7133	2.0686	75.67665
28.8	111.4	1.61	-11.93	-0.14	111.254	1.4471	6	2.00078	125.2481	1.69991	0	1.6999	64.447	1.4696	-0.008	5	0.7392	0.7044	2.123	72.92745
28.9	103.4	1.77	-11.9	-0.13	103.254	1.7142	5	2.07522	125.7593	1.7062	0	1.7062	59.517	1.743	-0.008	5	0.7697	0.6923	2.2023	66.43902
29	97	1.85	-11.95	-0.2	96.8537	1.9101	5	2.12802	125.9267	1.7125	0	1.7125	55.557	1.9445	-0.009	5	0.7918	0.683	2.2594	61.41553
29.1	99.5	1.93	-11.98	-0.27	99.3534	1.9426	5	2.12538	126.2986	1.71881	0	1.7188	56.803	1.9768	-0.009	5	0.791	0.6813	2.2566	62.86419
29.2	117.1	1.85	-11.93	-0.23	116.954	1.5818	6	2.0122	126.3866	1.72513	0	1.7251	66.794	1.6055	-0.007	5	0.7456	0.6946	2.1365	75.6405
29.3	140.5	1.64	-11.95	-0.22	140.354	1.1685	6	1.86365	125.9499	1.73143	0	1.7314	80.062	1.1831	-0.006	6	0.6863	0.7132	1.98	93.43943
29.4	160.5	1.19	-12.03	-0.25	160.353	0.7421	6	1.68873	123.9279	1.73763	0	1.7376	91.283	0.7502	-0.005	6	0.6176	0.7361	1.799	110.3467
29.5	174.7	1.27	-11.96	-0.25	174.554	0.7276	6	1.65513	124.6109	1.74386	0	1.7439	99.096	0.7349	-0.005	6	0.604	0.7395	1.7625	120.7744
29.6	180	1.39	-12	-0.29	179.853	0.7729	6	1.66268	125.3445	1.75012	0	1.7501	101.77	0.7805	-0.005	6	0.6071	0.7368	1.7698	124.0133
29.7	179.4	1.5	-11.91	0.04	179.254	0.8368	6	1.68695	125.8936	1.75642	0	1.7564	101.06	0.8451	-0.005	6	0.6171	0.7314	1.7953	122.6994
29.8	184.1	1.58	-11.75	0.08	183.956	0.8589	6	1.68643	126.337	1.76274	0	1.7627	103.36	0.8672	-0.005	6	0.6171	0.7298	1.7945	125.6657
29.9	191	0	-11.75	-0.12	190.856	0	0	0	120.9	1.76878	0	1.7688	106.9	0	-0.004	0	1	0.5982	0	0
30	195.8	0	-11.68	0.06	195.657	0	0	0	120.9	1.77483	0	1.7748	109.24	0	-0.004	0	1	0.5962	0	0

	CPT-4	In situ data			Basic output data															
Depth (ft)	qc (tsf)	fs (tsf)	u (psi)	Other	qt (tsf)	Rf(%)	SBT	Ic SBT	ã (pcf)	ó,v (tsf)	u0 (tsf)	ó',vo (tsf)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.1	1.5	0	0	-0.26	1.5	0	0	0	120.9	0.00605	0	0.0061	247.14	0	0	0	1	175.04	0	0
0.2	3	0	0	-0.53	3	0	0	0	120.9	0.01209	0	0.0121	247.14	0	0	0	1	87.519	0	0
0.3	9.8	0.09	0	0.59	9.8	0.9184	4	2.76876	98.21916	0.017	0	0.017	575.44	0.92	0	6	0.5746	10.737	1.8899	99.26731
0.4	21.7	0.1	-0.06	0.76	21.6993	0.4609	5	2.33195	100.9288	0.02205	0	0.0221	983.21	0.4613	-2E-04	6	0.4743	6.2705	1.6231	128.4623
0.5	44.3	0.15	-0.14	0.04	44.2983	0.3386	6	1.99441	105.6363	0.02733	0	0.0273	1619.9	0.3388	-2E-04	6	0.3989	4.2994	1.4278	179.8842
0.6	80.7	0.2	-0.15	-0.54	80.6982	0.2478	6	1.70232	109.2041	0.03279	0	0.0328	2460.1	0.2479	-1E-04	7	0.3308	3.1554	1.2502	240.5535
0.7	133	0.26	-0.15	-0.59	132.998	0.1955	6	1.46288	112.3423	0.03841	0	0.0384	3461.9	0.1956	-8E-05	7	0.2694	2.4435	1.1078	307.051
0.8	157	0.33	-0.2	0.15	156.998	0.2102	6	1.40744	114.4914	0.04413	0	0.0441	3556.5	0.2103	-9E-05	7	0.2621	2.2993	1.083	341.0581
0.9	150.1	0.49	-0.28	0.66	150.097	0.3265	6	1.50866	117.2743	0.04999	0	0.05	3001.2	0.3266	-1E-04	7	0.3023	2.5164	1.175	356.8432
1	146	0.59	-0.21	0.31	145.997	0.4041	6	1.56605	118.5656	0.05592	0	0.0559	2609.7	0.4043	-1E-04	7	0.3242	2.594	1.2342	357.7863
1.1	147.2	0.66	-0.2	0.09	147.198	0.4484	6	1.58736	119.406	0.06189	0	0.0619	2377.2	0.4486	-1E-04	7	0.3323	2.5687	1.2654	357.1879
1.2	151	0.63	-0.23	0.35	150.997	0.4172	6	1.56107	119.1277	0.06785	0	0.0679	2224.5	0.4174	-1E-04	7	0.327	2.4549	1.2504	350.1743
1.3	154.8	0.63	-0.18	0.38	154.798	0.407	6	1.54616	119.1884	0.07381	0	0.0738	2096.3	0.4072	-8E-05	7	0.3255	2.3793	1.2453	347.912
1.4	157.4	0.65	-0.2	0.3	157.398	0.413	6	1.54348	119.4577	0.07978	0	0.0798	1971.8	0.4132	-9E-05	7	0.328	2.3349	1.2502	347.1444
1.5	165.8	0.72	-0.27	0.32	165.797	0.4343	6	1.53664	120.3328	0.0858	0	0.0858	1931.4	0.4345	-1E-04	7	0.3303	2.2928	1.2542	359.0753
1.6	179.6	0.99	-0.35	0.33	179.596	0.5512	6	1.56919	122.8579	0.09194	0	0.0919	1952.4	0.5515	-1E-04	7	0.3479	2.3394	1.2976	396.8733
1.7	195.4	1.18	-0.33	0.28	195.396	0.6039	6	1.56545	124.3482	0.09816	0	0.0982	1989.6	0.6042	-1E-04	7	0.3544	2.3223	1.3056	428.6329
1.8	204.6	1.31	-0.3	0.24	204.596	0.6403	6	1.56666	125.2251	0.10442	0	0.1044	1958.4	0.6406	-1E-04	7	0.3582	2.2924	1.3161	443.0263
1.9	208.9	1.61	-0.35	0.24	208.896	0.7707	6	1.61397	126.7847	0.11076	0	0.1108	1885	0.7711	-1E-04	6	0.3779	2.3463	1.3685	462.9693
2	209.9	2.29	-0.38	0.24	209.895	1.091	6	1.71958	129.3742	0.11723	0	0.1172	1789.5	1.0916	-1E-04	6	0.4187	2.5123	1.4764	498.0797
2.1	204.5	3.02	-0.26	0.22	204.497	1.4768	6	1.82529	131.3353	0.1238	0	0.1238	1650.9	1.4777	-9E-05	6	0.459	2.6774	1.5821	517.1469
2.2	202.2	3.36	-0.23	0.22	202.197	1.6617	6	1.86772	132.0884	0.1304	0	0.1304	1549.6	1.6628	-8E-05	6	0.4764	2.7111	1.6271	517.7456
2.3	201.9	3.7	-0.17	0.22	201.898	1.8326	6	1.9011	132.79	0.13704	0	0.137	1472.3	1.8339	-6E-05	8	0.4907	2.7265	1.664	519.8883
2.4	201.8	3.97	-0.21	0.22	201.797	1.9673	6	1.92536	133.3042	0.1437	0	0.1437	1403.3	1.9687	-7E-05	8	0.5002	2.7148	1.6925	517.3855
2.5	215.6	4.07	-0.13	0.22	215.598	1.8878	6	1.89355	133.6476	0.15039	0	0.1504	1432.6	1.8891	-4E-05	8	0.4925	2.6138	1.671	532.2034
2.6	275.7	4.15	0.07	0.22	275.701	1.5053	6	1.75055	134.3897	0.15711	0	0.1571	1753.9	1.5061	2E-05	6	0.4489	2.3543	1.5556	613.0751
2.7	293.9	4.22	-0.21	0.23	293.897	1.4359	6	1.7175	134.668	0.16384	0	0.1638	1792.8	1.4367	-5E-05	6	0.4402	2.2731	1.5317	631.0096
2.8	283.8	4.02	-0.06	0.22	283.799	1.4165	6	1.72192	134.2275	0.17055	0	0.1706	1663	1.4174	-2E-05	6	0.4421	2.2409	1.5359	600.6789
2.9	261	3.79	-0.02	0.22	261	1.4521	6	1.75265	133.5921	0.17723	0	0.1772	1471.7	1.4531	-1E-05	6	0.4522	2.2436	1.5619	553.0357
3	241.5	4.09	-0.05	0.22	241.499	1.6936	6	1.82612	133.9601	0.18393	0	0.1839	1312	1.6949	-1E-05	6	0.479	2.3118	1.6308	527.2294
3.1	232.8	4.6	0.03	0.24	232.8	1.9759	6	1.88916	134.7305	0.19066	0	0.1907	1220	1.9776	1E-05	8	0.5032	2.3685	1.693	520.6852
3.2	228.5	4.87	0.04	0.24	228.5	2.1313	6	1.92041	135.1024	0.19742	0	0.1974	1156.4	2.1331	1E-05	8	0.5159	2.3777	1.7254	513.0205
3.3	227.7	4.98	-0.04	0.24	227.7	2.1871	6	1.93037	135.2572	0.20418	0	0.2042	1114.2	2.1891	-1E-05	8	0.521	2.3565	1.7378	506.6527
3.4	248.6	5.15	0.07	0.22	248.601	2.0716	6	1.88894	135.717	0.21097	0	0.211	1177.4	2.0734	2E-05	8	0.5095	2.2742	1.7067	533.864
3.5	276.9	5.3	0.15	0.22	276.902	1.914	6	1.83385	136.1901	0.21778	0	0.2178	1270.5	1.9155	4E-05	8	0.4934	2.1812	1.6633	570.3679
3.6	291.9	5.3	0.21	0.22	291.903	1.8157	6	1.80194	136.3187	0.22459	0	0.2246	1298.7	1.8171	5E-05	8	0.4842	2.1179	1.6382	583.8251
3.7	294	5.23	0.23	0.2	294.003	1.7789	6	1.79287	136.2389	0.23141	0	0.2314	1269.5	1.7803	6E-05	8	0.4822	2.0812	1.6321	577.8272
3.8	285.9	5.09	0.23	0.18	285.903	1.7803	6	1.80013	135.9723	0.2382	0	0.2382	1199.2	1.7818	6E-05	8	0.4853	2.062	1.6396	556.6951
3.9	273.3	4.75	0.23	0.16	273.303	1.738	6	1.80302	135.3565	0.24497	0	0.245	1114.6	1.7396	6E-05	6	0.4863	2.0371	1.6414	525.7051
4	255.1	4.39	0.24	0.18	255.103	1.7209	6	1.81729	134.6117	0.2517	0	0.2517	1012.5	1.7226	7E-05	6	0.491	2.0239	1.6529	487.4701
4.1	237.9	4.1	0.32	0.15	237.904	1.7234	6	1.8361	133.9414	0.2584	0	0.2584	919.68	1.7253	0.0001	6	0.4974	2.016	1.6689	452.7918
4.2	217.3	3.95	0.38	0.13	217.305	1.8177	6	1.87849	133.4478	0.26507	0	0.2651	818.79	1.8199	0.0001	6	0.5121	2.0318	1.7068	416.7571
4.3	194.8	3.88	0.38	0.13	194.805	1.9917	6	1.93905	133.0504	0.27173	0	0.2717	715.92	1.9945	0.0001	6	0.5333	2.0648	1.7616	379.6128
4.4	177.2	3.69	0.38	0.13	177.205	2.0823	6	1.97985	132.4521	0.27835	0	0.2784	635.63	2.0856	0.0002	6	0.5475	2.0774	1.798	347.3638
4.5	165.8	3.44	0.33	0.13	165.804	2.0747	5	1.99693	131.7765	0.28494	0	0.2849	580.9	2.0783	0.0001	6	0.5535	2.0672	1.8129	323.3683
4.6	159.9	3.23	0.4	0.14	159.905	2.02	5	1.99812	131.2273	0.2915	0	0.2915	547.56	2.0236	0.0002	6	0.5543	2.0435	1.8143	308.2496
4.7	155.6	3.08	0.45	0.14	155.606	1.9794	5	1.99909	130.8129	0.29804	0	0.298	521.1	1.9832	0.0002	6	0.5553	2.021	1.816	296.6324
4.8	148.4	2.71	0.39	0.14	148.405	1.8261	6	1.98632	129.7609	0.30453	0	0.3045	486.33	1.8298	0.0002	6	0.5506	1.9852	1.8029	277.8617
4.9	142.8	2.41	0.17	0.14	142.802	1.6877	6	1.97223	128.8086	0.31097	0	0.311	458.22	1.6913	9E-05	6	0.5456	1.9505	1.7892	262.6661
5	136.3	2.54	0.37	0.14	136.305	1.8635	5	2.0176	129.0794	0.31742	0	0.3174	428.41	1.8678	0.0002	6	0.5629	1.9694	1.8336	253.1017
5.1	124.3	2.58	0.02	0.16	124.3	2.0756	5	2.07918	128.9689	0.32387	0	0.3239	382.8	2.081	1E-05	6	0.5852	1.9994	1.8913	234.27
5.2	125	2.37	-0.68	0.21	124.992	1.8961	5	2.04867	128.3612	0.33029	0	0.3303	377.43	1.9012	-4E-04	6	0.5751	1.9535	1.8641	230.153
5.3	133.3	2.39	-0.74	0.2	133.291	1.7931	5	2.01188	128.5795	0.33672	0	0.3367	394.86	1.7976	-4E-04	6	0.564	1.9075	1.834	239.6852
5.4	147.7	2.42	-0.68	0.22	147.692	1.6386	6	1.95289	128.921	0.34316	0	0.3432	429.38	1.6424	-3E-04	6	0.5453	1.8479	1.7841	257.3354
5.5	151.3	2.52	-0.68	0.23	151.292	1.6657	6	1.95106	129.276	0.34963	0	0.3496	431.72	1.6695	-3E-04	6	0.5464	1.8314	1.786	261.2492
5.6	147.3	2.65	-0.8	0.24	147.29	1.7992	6	1.9837	129.5787	0.35611	0	0.3561	412.61	1.8035	-4E-04	6	0.5593	1.8388	1.819	255.3437
5.7	144.1	2.82	-0.77	0.24	144.091	1.9571	5	2.01732	129.9801	0.3626	0	0.3626	396.38	1.962	-4E-04	6	0.5727	1.8466	1.8532	250.8377
5.8	140.8	3	-0.92	0.24	140.789	2.1309	5	2.05174	130.3763	0.36912	0	0.3691	380.41	2.1365	-5E-04	6	0.5865	1.8545	1.8883	246.1021
5.9	139	3.01	-1.06	0.26	138.987	2.1657	5	2.06072	130.3692	0.37564	0	0.3756	369	2.1715	-6E-04	6	0.5908	1.8437	1.8987	241.529
6	132	2.83	-1.18	0.26	131.986	2.1442	5	2.07227	129.7919	0.38213	0	0.3821	344.39	2.1504	-7E-04	6	0.5952	1.8335	1.9097	228.0461
6.1	123	2.58	-0.96	0.26	122.988	2.0978	5	2.08569	128.943	0.38858	0	0.3886	315.51	2.1044	-6E-04	6	0.6001	1.8241	1.9215	211.3565
6.2	114.6	2.19	-0.76	0.26	114.591	1.9112	5	2.07707	127.5713	0.39496	0	0.395	289.13	1.9178	-5E-04	6	0.5966	1.8002	1.9117	194.2862
6.3	106.3	1.79	-0.96	0.26	106.288	1.6841	5	2.06086	125.9122	0.40125	0	0.4013	263.89	1.6905	-7E-04	6	0.5902	1.7723	1.8942	177.3536
6.4	102	1.56	-0.88	0.28	101.989	1.5296	5	2.04474	124.8052	0.40749	0	0.4075	249.28	1.5357	-6E-04	6	0.5845	1.7467	1.8786	167.6872
6.5	99.3	1.42	-0.83	0.28	99.2898	1.4302	5	2.03336	124.0517	0.4137	0	0.4137	239.01	1.4361	-6E-04	6	0.5809	1.7255	1.8683	161.2381
6.6	94.5	1.4	-0.83	0.29	94.4898	1.4816	5	2.0596	123.8271	0.41989	0	0.4199	224.04	1.4883	-6E-04	6	0.591	1.7268	1.8942	153.5175
6.7	88.9	1.46	-0.83	0.3	88.8898	1.6425	5	2.10945	123.9851	0.42609	0	0.4261	207.62	1.6504	-7E-04	6	0.6099	1.7415	1.9428	145.6027
6.8	83.7	1.44	-0.83	0.3	83.6898	1.7206	5	2.14237	123.7372	0.43227	0	0.4323	192.6	1.7296	-7E-04	6	0.6225	1.7458	1.9749	137.3679

6.9	77.1	1.41	-0.83	0.31	77.0898	1.829	5	2.18658	123.3828	0.43844	0	0.4384	174.83	1.8395	-8E-04	5	0.6389	1.7557	2.0172	127.1874
7	74.2	1.36	-0.83	0.31	74.1898	1.8331	5	2.19951	123.0251	0.44459	0	0.4446	165.87	1.8442	-8E-04	5	0.6443	1.7484	2.0307	121.8533
7.1	74.2	1.25	-1.03	0.31	74.1874	1.6849	5	2.175	122.4079	0.45071	0	0.4507	163.6	1.6952	-0.001	6	0.6363	1.7212	2.0088	119.9437
7.2	73.3	1.07	-1.06	0.31	73.287	1.46	5	2.13816	121.2404	0.45678	0	0.4568	159.44	1.4692	-0.001	6	0.6234	1.6882	1.9742	116.1985
7.3	70.8	0.92	-1.12	0.32	70.7863	1.2997	5	2.11749	120.0506	0.46278	0	0.4628	151.96	1.3082	-0.001	6	0.6162	1.6646	1.9546	110.63
7.4	67.6	0.83	-1.16	0.33	67.5858	1.2281	5	2.11783	119.1845	0.46874	0	0.4687	143.19	1.2367	-0.001	6	0.6167	1.6523	1.9554	104.804
7.5	61.9	0.75	-1.43	0.32	61.8825	1.212	5	2.14457	118.2278	0.47465	0	0.4747	129.38	1.2213	-0.002	6	0.6266	1.6526	1.9805	95.90712
7.6	55	0.72	-1.43	0.31	54.9825	1.3095	5	2.20578	117.6408	0.48053	0	0.4805	113.42	1.3211	-0.002	5	0.6491	1.6692	2.0387	85.9789
7.7	48.9	0.76	-1.5	0.31	48.8816	1.5548	5	2.29177	117.7496	0.48642	0	0.4864	99.493	1.5704	-0.002	5	0.681	1.6977	2.1216	77.64708
7.8	44.1	0.76	-1.51	0.33	44.0815	1.7241	5	2.3548	117.4975	0.49229	0	0.4923	88.543	1.7436	-0.002	5	0.7046	1.7145	2.1826	70.62768
7.9	38.9	0.71	-1.58	0.33	38.8807	1.8261	5	2.41312	116.6933	0.49813	0	0.4981	77.054	1.8498	-0.003	5	0.7261	1.7281	2.2383	62.686
8	32.5	0.59	-1.55	0.34	32.481	1.8164	5	2.47386	114.9	0.50387	0	0.5039	63.463	1.8451	-0.003	5	0.7479	1.7417	2.2948	52.63739
8.1	26.3	0.45	-1.51	0.35	26.2815	1.7122	4	2.53337	112.4014	0.50949	0	0.5095	50.584	1.7461	-0.004	5	0.7691	1.7543	2.3496	42.72794
8.2	25.4	0.29	-1.51	0.37	25.3815	1.1426	5	2.44972	109.1016	0.51495	0	0.515	48.289	1.1662	-0.004	5	0.7383	1.7018	2.2683	39.99434
8.3	28	0.25	-1.51	0.37	27.9815	0.8935	5	2.35888	108.2535	0.52036	0	0.5204	52.773	0.9104	-0.004	5	0.7063	1.6509	2.1839	42.84464
8.4	30	0.27	-1.51	0.38	29.9815	0.9006	5	2.33463	108.985	0.52581	0	0.5258	56.02	0.9166	-0.004	5	0.6992	1.6306	2.1644	45.39234
8.5	31.1	0.35	-1.58	0.42	31.0807	1.1261	5	2.37172	110.9716	0.53136	0	0.5314	57.493	1.1457	-0.004	5	0.7148	1.6362	2.2047	47.23992
8.6	32.7	0.41	-1.66	0.44	32.6797	1.2546	5	2.37905	112.2517	0.53697	0	0.537	59.859	1.2756	-0.004	5	0.7194	1.629	2.2159	49.48465
8.7	34.6	0.46	-1.62	0.45	34.5802	1.3302	5	2.37296	113.2316	0.54263	0	0.5426	62.727	1.3515	-0.003	5	0.7189	1.6163	2.2139	51.99211
8.8	37	0.47	-1.61	0.47	36.9803	1.271	5	2.33772	113.5526	0.54831	0	0.5483	66.444	1.2901	-0.003	5	0.7076	1.5923	2.1834	54.82329
8.9	40.2	0.45	-1.66	0.48	40.1797	1.12	5	2.27705	113.4368	0.55398	0	0.554	71.529	1.1356	-0.003	5	0.6867	1.5595	2.128	58.40385
9	43.7	0.43	-1.66	0.49	43.6797	0.9844	5	2.21587	113.3078	0.55965	0	0.5597	77.049	0.9972	-0.003	5	0.6657	1.5281	2.0721	62.27113
9.1	47.6	0.43	-1.66	0.49	47.5797	0.9038	5	2.16448	113.5164	0.56532	0	0.5653	83.164	0.9146	-0.003	6	0.6483	1.5014	2.0258	66.71097
9.2	50.6	0.42	-1.66	0.51	50.5797	0.8304	5	2.12227	113.4934	0.571	0	0.571	87.581	0.8399	-0.002	6	0.6342	1.4787	1.9879	69.88765
9.3	52.6	0.42	-1.65	0.51	52.5798	0.7988	5	2.09902	113.588	0.57668	0	0.5767	90.177	0.8076	-0.002	6	0.6269	1.463	1.9681	71.90134
9.4	54.8	0.44	-1.58	0.51	54.7807	0.8032	5	2.08529	114.0284	0.58238	0	0.5824	93.064	0.8118	-0.002	6	0.6232	1.4508	1.9576	74.31174
9.5	56.7	0.45	-1.58	0.53	56.6807	0.7939	5	2.0701	114.276	0.58809	0	0.5881	95.381	0.8023	-0.002	6	0.6188	1.4383	1.9455	76.24826
9.6	57	0.48	-1.65	0.53	56.9798	0.8424	5	2.08223	114.761	0.59383	0	0.5938	94.953	0.8513	-0.002	6	0.6245	1.4344	1.9597	76.43792
9.7	57.2	0.52	-1.66	0.53	57.1797	0.9094	5	2.09944	115.3553	0.5996	0	0.5996	94.363	0.9191	-0.002	6	0.6321	1.4319	1.9788	76.56812
9.8	56.9	0.58	-1.61	0.53	56.8803	1.0197	5	2.12961	116.1415	0.60541	0	0.6054	92.954	1.0307	-0.002	6	0.6445	1.4331	2.0105	76.21783
9.9	55.8	0.47	-1.63	0.52	55.7801	0.8426	5	2.09001	114.5551	0.61113	0	0.6111	90.273	0.8519	-0.002	6	0.6303	1.4134	1.9727	73.69387
10	55.3	0.5	-1.61	0.52	55.2803	0.9045	5	2.11028	114.9859	0.61688	0	0.6169	88.612	0.9147	-0.002	6	0.6389	1.4116	1.9946	72.92656
10.1	55.6	0.54	-1.58	0.52	55.5807	0.9716	5	2.12582	115.5622	0.62266	0	0.6227	88.263	0.9826	-0.002	6	0.6459	1.4084	2.012	73.15327
10.2	54.7	0.56	-1.42	0.53	54.6826	1.0241	5	2.14468	115.7886	0.62845	0	0.6285	86.012	1.036	-0.002	6	0.6539	1.4059	2.0323	71.82046
10.3	52.1	0.54	-1.18	0.55	52.0856	1.0368	5	2.16507	115.4038	0.63422	0	0.6342	81.125	1.0495	-0.002	5	0.6622	1.4035	2.0534	68.24426
10.4	47.7	0.5	-1.16	0.55	47.6858	1.0485	5	2.19941	114.6254	0.63995	0	0.64	73.515	1.0628	-0.002	5	0.6755	1.4045	2.0875	62.44564
10.5	42	0.46	-1.21	0.55	41.9852	1.0956	5	2.25588	113.7048	0.64564	0	0.6456	64.029	1.1127	-0.002	5	0.6969	1.4109	2.1429	55.1241
10.6	36.8	0.41	-1.21	0.55	36.7852	1.1146	5	2.30783	112.5404	0.65126	0	0.6513	55.483	1.1347	-0.002	5	0.7166	1.4159	2.194	48.35317
10.7	34	0.38	-1.2	0.55	33.9853	1.1181	5	2.33739	111.7913	0.65685	0	0.6569	50.74	1.1402	-0.003	5	0.7283	1.4152	2.224	44.57511
10.8	32.2	0.37	-1.13	0.55	32.1862	1.1496	5	2.36376	111.4635	0.66243	0	0.6624	47.588	1.1737	-0.003	5	0.739	1.4136	2.2515	42.1137
10.9	30.2	0.36	-1.13	0.53	30.1862	1.1926	5	2.39583	111.1065	0.66798	0	0.668	44.19	1.2196	-0.003	5	0.7519	1.4132	2.2845	39.42418
11	28.3	0.33	-1.13	0.55	28.2862	1.1667	5	2.41452	110.3113	0.6735	0	0.6735	40.999	1.1951	-0.003	5	0.7597	1.4095	2.3043	36.78149
11.1	27	0.3	-1.08	0.55	26.9868	1.1117	5	2.42079	109.4992	0.67897	0	0.679	38.747	1.1404	-0.003	5	0.7629	1.4028	2.3121	34.87841
11.2	26.7	0.24	-1.11	0.55	26.6864	0.8993	5	2.37817	107.8392	0.68436	0	0.6844	37.994	0.923	-0.003	5	0.7478	1.3852	2.2717	34.04016
11.3	28.5	0.29	-1.13	0.55	28.4862	1.018	5	2.38088	109.3831	0.68983	0	0.6898	40.294	1.0433	-0.003	5	0.7502	1.3784	2.2773	36.21051
11.4	31.5	0.34	-1.17	0.54	31.4857	1.0799	5	2.35725	110.7911	0.69537	0	0.6954	44.279	1.1042	-0.003	5	0.7428	1.3659	2.2572	39.74695
11.5	36.1	0.37	-1.21	0.52	36.0852	1.0254	5	2.29517	111.7424	0.70096	0	0.701	50.48	1.0457	-0.002	5	0.721	1.3457	2.1993	45.00074
11.6	40.5	0.41	-1.17	0.51	40.4857	1.0127	5	2.25021	112.7741	0.7066	0	0.7066	56.297	1.0307	-0.002	5	0.7056	1.3296	2.1581	49.98675
11.7	43.4	0.45	-1.13	0.52	43.3862	1.0372	5	2.2308	113.624	0.71228	0	0.7123	59.912	1.0545	-0.002	5	0.6996	1.319	2.1418	53.19641
11.8	45.8	0.49	-1.13	0.53	45.7862	1.0702	5	2.219	114.3785	0.718	0	0.718	62.769	1.0872	-0.002	5	0.6964	1.31	2.1327	55.79878
11.9	47.5	0.51	-1.13	0.53	47.4862	1.074	5	2.20681	114.7601	0.72374	0	0.7237	64.612	1.0906	-0.002	5	0.693	1.3011	2.123	57.5013
12	46.9	0.51	-1.13	0.54	46.8862	1.0877	5	2.21449	114.7291	0.72947	0	0.7295	63.274	1.1049	-0.002	5	0.6968	1.2958	2.1323	56.52723
12.1	44	0.51	-1.13	0.54	43.9862	1.1595	5	2.25306	114.5734	0.7352	0	0.7352	58.829	1.1792	-0.002	5	0.7121	1.296	2.1717	52.97505
12.2	41	0.52	-1.13	0.53	40.9862	1.2687	5	2.30061	114.5432	0.74093	0	0.7409	54.317	1.2921	-0.002	5	0.7309	1.2975	2.2201	49.34999
12.3	40.4	0.51	-1.13	0.53	40.3862	1.2628	5	2.30469	114.3651	0.74665	0	0.7467	53.09	1.2866	-0.002	5	0.7334	1.2913	2.226	48.37689
12.4	42.8	0.51	-1.13	0.53	42.7862	1.192	5	2.26978	114.5059	0.75237	0	0.7524	55.868	1.2133	-0.002	5	0.7213	1.2789	2.1937	50.80375
12.5	47	0.52	-1.13	0.53	46.9862	1.1067	5	2.218	114.8764	0.75812	0	0.7581	60.977	1.1249	-0.002	5	0.7031	1.2642	2.145	55.22968
12.6	51.7	0.55	-1.13	0.53	51.6862	1.0641	5	2.17428	115.5193	0.76389	0	0.7639	66.662	1.0801	-0.002	5	0.6878	1.2512	2.1043	60.21483
12.7	54.5	0.56	-1.2	0.53	54.4853	1.0278	5	2.14687	115.7798	0.76968	0	0.7697	69.789	1.0425	-0.002	5	0.6786	1.2411	2.0794	63.00359
12.8	55.1	0.59	-1.14	0.53	55.0861	1.0711	5	2.15331	116.1884	0.77549	0	0.7755	70.034	1.0863	-0.002	5	0.682	1.2361	2.0877	63.44474
12.9	54.5	0.63	-1.2	0.53	54.4853	1.1563	5	2.17662	116.6416	0.78132	0	0.7813	68.735	1.1731	-0.002	5	0.6918	1.2334	2.1125	62.6011
13	53.5	0.7	-1.15	0.53	53.4859	1.3088	5	2.21517	117.3674	0.78719	0	0.7872	66.945	1.3283	-0.002	5	0.7073	1.2327	2.1525	61.3931
13.1	52.3	0.74	-1.19	0.53	52.2854	1.4153	5	2.24364	117.7186	0.79308	0	0.7931	64.927	1.4371	-0.002	5	0.719	1.2303	2.1824	59.87383
13.2	51	0.81	-1.21	0.53	50.9852	1.5887	5	2.28321	118.3185	0.79899	0	0.799	62.812	1.614	-0.002	5	0.7352	1.2294	2.2234	58.30961
13.3	48.4	0.87	-1.21	0.53	48.3852	1.7981	5	2.33463	118.7137	0.80493	0	0.8049	59.111	1.8285	-0.002	5	0.7555	1.2295	2.2761	55.28794
13.4	44.3	0.9	-1.21	0.54	44.2852	2.0323	5	2.39809	118.7458	0.81087	0	0.8109	53.615	2.0702	-0.002	5	0.7803	1.2308	2.3406	50.57024
13.5	40.2	0.94	-1.24	0.55	40.1848	2.3392	5	2.46962	118.827	0.81681	0	0.8168	48.197	2.3877	-0.002	5	0.8083	1.2327	2.4134	45.8642
13.6	36.3	0.96	-1.39	0.55	36.283	2.6459	4	2.53803	118.732	0.82274	0	0.8227	43.1	2.7073	-0.003	4	0.8352	1.2338	2.4832	41.34899
13.7	32.1	0.94	-1.51	0.55	32.0815	2.93	4	2.60745	118.2777	0.82866	0	0.8287	37.715	3.0077	-0.003	4	0.8625	1.2347	2.5544	36.46852
13.8	28.5	0.9	-1.18	0.56	28.4856	3.1595	4	2.66801	117.6696	0.83454	0	0.8345	33.133	3.2549	-0.003	4	0.8866	1.2342	2.617	32.25345
13.9	26.9	0.86	-0.44	0.57	26.8946	3.1977	4	2.69049	117.1968	0.8404	0	0.8404	31.002	3.3008	-0.001	4	0.8963	1.2293	2.6418	30.27035

14	28.2	0.83	-0.02	0.57	28.1998	2.9433	4	2.65165	117.0526	0.84625	0	0.8463	32.323	3.0344	-5E-05	4	0.8825	1.218	2.6049	31.48582
14.1	37.8	0.78	-0.36	0.57	37.7956	2.0637	5	2.45569	117.3123	0.85212	0	0.8521	43.355	2.1113	-7E-04	5	0.8089	1.1914	2.4107	41.5976
14.2	55.1	0.66	-1.21	0.59	55.0852	1.1981	5	2.18194	117.0087	0.85797	0	0.858	63.204	1.2171	-0.002	5	0.7062	1.1596	2.1402	59.42786
14.3	73.9	0.75	-1.19	0.61	73.8854	1.0151	6	2.03669	118.6602	0.8639	0	0.8639	84.525	1.0271	-0.001	6	0.6524	1.1415	1.9983	78.77279
14.4	89.8	0.89	-1.15	0.61	89.7859	0.9913	6	1.96336	120.3879	0.86992	0	0.8699	102.21	1.0009	-9E-04	6	0.6258	1.1304	1.9278	94.98988
14.5	99	1.07	-1.18	0.6	98.9856	1.081	6	1.95421	121.9735	0.87602	0	0.876	111.99	1.0906	-9E-04	6	0.6234	1.1249	1.9207	104.3061
14.6	99.7	1.26	-1.16	0.59	99.6858	1.264	6	1.99617	123.1867	0.88218	0	0.8822	112	1.2753	-9E-04	6	0.6402	1.1235	1.964	104.9054
14.7	92	1.43	-1.21	0.59	91.9852	1.5546	5	2.08232	123.9167	0.88838	0	0.8884	102.54	1.5698	-1E-03	5	0.6736	1.125	2.051	96.85399
14.8	78.4	1.6	-1.22	0.59	78.3851	2.0412	5	2.21393	124.3484	0.89459	0	0.8946	86.621	2.0648	-0.001	5	0.7242	1.1293	2.1831	82.70127
14.9	62.9	1.36	-1.26	0.59	62.8846	2.1627	5	2.30095	122.6218	0.90072	0	0.9007	68.816	2.1941	-0.001	5	0.7579	1.1298	2.271	66.18438
15	53.2	1.31	-1.21	0.59	53.1852	2.4631	5	2.39276	121.9392	0.90682	0	0.9068	57.65	2.5058	-0.002	5	0.7937	1.1303	2.3643	55.84408
15.1	46.7	1.39	-1.21	0.61	46.6852	2.9774	4	2.49018	122.055	0.91292	0	0.9129	50.138	3.0368	-0.002	4	0.8318	1.1306	2.4635	48.90865
15.2	43.1	1.45	-1.14	0.58	43.0861	3.3654	4	2.55195	122.1685	0.91903	0	0.919	45.882	3.4387	-0.002	4	0.8564	1.1283	2.5272	44.9625
15.3	59.6	1.47	-1.02	0.57	59.5875	2.467	5	2.35697	123.0596	0.92519	0	0.9252	63.406	2.5059	-0.001	5	0.7828	1.1108	2.3335	61.58423
15.4	73.7	1.45	-1.12	0.59	73.6863	1.9678	5	2.22255	123.4773	0.93136	0	0.9314	78.117	1.993	-0.001	5	0.7326	1.098	2.2008	75.4965
15.5	97	1.39	-1.03	0.6	96.9874	1.4332	5	2.0415	123.8383	0.93755	0	0.9376	102.45	1.4472	-8E-04	6	0.6647	1.0837	2.0218	98.3752
15.6	107.4	1.27	-0.9	0.59	107.389	1.1826	6	1.95281	123.4261	0.94372	0	0.9437	112.79	1.1931	-6E-04	6	0.6318	1.075	1.9348	108.1407
15.7	112.4	1.18	-0.9	0.59	112.389	1.0499	6	1.90396	122.9993	0.94987	0	0.9499	117.32	1.0589	-6E-04	6	0.6141	1.0685	1.8874	112.5345
15.8	111.8	1.18	-0.9	0.61	111.789	1.0556	6	1.90723	122.9862	0.95602	0	0.956	115.93	1.0647	-6E-04	6	0.6161	1.0645	1.892	111.5026
15.9	105.9	1.2	-0.84	0.59	105.89	1.1333	6	1.94521	122.977	0.96217	0	0.9622	109.05	1.1437	-6E-04	6	0.6313	1.0618	1.9312	105.2976
16	95.6	1.22	-0.9	0.61	95.589	1.2763	6	2.01264	122.8483	0.96831	0	0.9683	97.717	1.2894	-7E-04	6	0.6578	1.0601	1.9999	94.79575
16.1	85	1.17	-0.9	0.61	84.989	1.3767	5	2.07272	122.2555	0.97443	0	0.9744	86.22	1.3926	-8E-04	5	0.6815	1.0578	2.0614	83.98636
16.2	74.8	1.12	-0.84	0.62	74.7897	1.4975	5	2.13862	121.6241	0.98051	0	0.9805	75.277	1.5174	-8E-04	5	0.7075	1.0554	2.129	73.6181
16.3	70.6	1.09	-0.88	0.63	70.5892	1.5441	5	2.16634	121.2844	0.98657	0	0.9866	70.55	1.566	-9E-04	5	0.719	1.0516	2.1584	69.17579
16.4	70.3	1.11	-0.86	0.63	70.2895	1.5792	5	2.17409	121.4071	0.99264	0	0.9926	69.81	1.6018	-9E-04	5	0.7228	1.0473	2.1677	68.58543
16.5	74.6	1.19	-0.92	0.61	74.5887	1.5954	5	2.15754	122.0611	0.99875	0	0.9988	73.682	1.6171	-9E-04	5	0.7172	1.0423	2.1523	72.48929
16.6	81.1	1.31	-1.06	0.62	81.087	1.6156	5	2.13405	122.9678	1.00489	0	1.0049	79.692	1.6358	-1E-03	5	0.709	1.0373	2.1299	78.50443
16.7	87.9	1.38	-1.01	0.63	87.8876	1.5702	5	2.09983	123.5451	1.01107	0	1.0111	85.925	1.5885	-8E-04	5	0.6967	1.0322	2.0968	84.74823
16.8	93	1.4	-0.83	0.63	92.9898	1.5055	5	2.06942	123.7881	1.01726	0	1.0173	90.412	1.5222	-7E-04	5	0.6858	1.0274	2.0675	89.30058
16.9	96.8	1.39	-0.78	0.62	96.7905	1.4361	5	2.04274	123.8333	1.02345	0	1.0235	93.573	1.4514	-6E-04	5	0.6764	1.0228	2.0421	92.56956
17	101.4	1.38	-0.83	0.61	101.39	1.3611	6	2.01215	123.8937	1.02965	0	1.0297	97.471	1.3751	-6E-04	6	0.6655	1.0183	2.0126	96.58544
17.1	106.1	1.37	-0.81	0.62	106.09	1.2914	6	1.98223	123.951	1.03584	0	1.0358	101.42	1.3041	-6E-04	6	0.6548	1.014	1.9838	100.6771
17.2	106.8	1.35	-0.77	0.61	106.791	1.2642	6	1.97391	123.8595	1.04204	0	1.042	101.48	1.2766	-5E-04	6	0.6524	1.01	1.9767	100.944
17.3	99.3	1.28	-0.83	0.6	99.2898	1.2892	6	2.00315	123.2923	1.0482	0	1.0482	93.724	1.3029	-6E-04	6	0.6644	1.0063	2.0076	93.42861
17.4	89.8	1.24	-0.83	0.59	89.7898	1.381	5	2.05566	122.8147	1.05434	0	1.0543	84.162	1.3974	-7E-04	5	0.6855	1.0025	2.0621	84.06761
17.5	73.1	1.16	-0.76	0.58	73.0907	1.5871	5	2.16268	121.8248	1.06043	0	1.0604	67.925	1.6104	-8E-04	5	0.7277	0.9984	2.1722	67.96591
17.6	58.5	1.05	-0.65	0.56	58.492	1.7951	5	2.2709	120.5524	1.06646	0	1.0665	53.847	1.8285	-8E-04	5	0.7707	0.994	2.2842	53.94404
17.7	54.6	0.93	-0.63	0.56	54.5923	1.7035	5	2.27923	119.4961	1.07244	0	1.0724	49.905	1.7377	-9E-04	5	0.775	0.9896	2.2949	50.05618
17.8	50	0.88	-0.64	0.56	49.9922	1.7603	5	2.3178	118.877	1.07838	0	1.0784	45.359	1.7991	-9E-04	5	0.791	0.9851	2.3362	45.53881
17.9	46.4	0.87	-0.72	0.56	46.3912	1.8754	5	2.36035	118.6111	1.08431	0	1.0843	41.784	1.9202	-0.001	5	0.8086	0.9804	2.3815	41.98016
18	43.2	0.89	-0.75	0.56	43.1908	2.0606	5	2.4103	118.603	1.09024	0	1.0902	38.616	2.114	-0.001	5	0.829	0.9755	2.4342	38.81395
18.1	40	0.92	-0.78	0.55	39.9905	2.3006	5	2.46658	118.6578	1.09617	0	1.0962	35.482	2.3654	-0.001	4	0.8519	0.9703	2.4936	35.6681
18.2	35.7	0.98	-0.86	0.56	35.6895	2.7459	4	2.55393	118.8426	1.10212	0	1.1021	31.383	2.8334	-0.002	4	0.887	0.9645	2.5851	31.52753
18.3	31.8	0.99	-0.93	0.56	31.7886	3.1143	4	2.62768	118.6346	1.10805	0	1.1081	27.689	3.2268	-0.002	4	0.9171	0.9586	2.6634	27.79492
18.4	28.8	0.95	-0.92	0.55	28.7887	3.2999	4	2.67673	118.091	1.11395	0	1.114	24.844	3.4327	-0.002	4	0.9378	0.9529	2.7168	24.92345
18.5	25.6	0.88	-0.67	0.55	25.5918	3.4386	4	2.72728	117.2439	1.11981	0	1.1198	21.854	3.596	-0.002	4	0.9593	0.9471	2.7728	21.90404
18.6	26.8	0.8	-0.39	0.55	26.7952	2.9856	4	2.67272	116.6586	1.12565	0	1.1257	22.804	3.1165	-0.001	4	0.9389	0.9436	2.7185	22.8906
18.7	38.9	0.74	-0.26	0.55	38.8968	1.9025	5	2.42395	116.9971	1.1315	0	1.1315	33.376	1.9595	-5E-04	5	0.8412	0.9452	2.4612	33.73372
18.8	55.2	0.76	-0.68	0.57	55.1917	1.377	5	2.21777	118.0457	1.1374	0	1.1374	47.524	1.406	-9E-04	5	0.7608	0.9465	2.2494	48.35313
18.9	58.9	0.87	-0.68	0.57	58.8917	1.4773	5	2.2146	119.193	1.14336	0	1.1434	50.508	1.5065	-9E-04	5	0.76	0.9428	2.2465	51.45576
19	52.2	1.02	-0.68	0.57	52.1917	1.9543	5	2.33251	120.0623	1.14936	0	1.1494	44.409	1.9983	-1E-03	5	0.8067	0.9355	2.3683	45.12529
19.1	42.9	1.12	-0.68	0.57	42.8917	2.6112	4	2.47929	120.268	1.15538	0	1.1554	36.124	2.6835	-0.001	4	0.8651	0.9267	2.5209	36.55473
19.2	33.2	1.12	-0.68	0.57	33.1917	3.3743	4	2.63645	119.6427	1.16136	0	1.1614	27.58	3.4967	-0.002	4	0.9284	0.9172	2.6865	27.76444
19.3	26.8	1.1	-0.68	0.59	26.7917	4.1058	4	2.76259	118.9884	1.16731	0	1.1673	21.952	4.2928	-0.002	3	0.9801	0.9082	2.8213	21.9947
19.4	27.1	1.11	-0.62	0.57	27.0924	4.0971	4	2.75835	119.0818	1.17326	0	1.1733	22.092	4.2826	-0.002	3	0.9793	0.9038	2.8185	22.13888
19.5	27.8	1.08	-0.67	0.59	27.7918	3.886	4	2.73484	118.9435	1.17921	0	1.1792	22.568	4.0582	-0.002	3	0.9709	0.9001	2.7958	22.63938
19.6	25.9	0.98	-0.74	0.57	25.8909	3.7851	4	2.7505	118.0598	1.18511	0	1.1851	20.847	3.9667	-0.002	3	0.9788	0.895	2.8158	20.89693
19.7	23.1	0.9	-0.53	0.57	23.0935	3.8972	3	2.79645	117.1578	1.19097	0	1.191	18.391	4.1091	-0.002	3	0.9991	0.8885	2.8681	18.39258
19.8	18.6	0.8	-0.21	0.57	18.5974	4.3017	3	2.89602	115.7679	1.19676	0	1.1968	14.54	4.5975	-9E-04	3	1	0.8842	2.978	14.53985
19.9	19.8	0.71	-0.21	0.55	19.7974	3.5863	3	2.82493	115.0471	1.20251	0	1.2025	15.463	3.8183	-8E-04	3	1	0.8799	2.9066	15.46342
20	19.4	0.57	-0.11	0.56	19.3987	2.9384	4	2.77839	113.3905	1.20818	0	1.2082	15.056	3.1335	-4E-04	3	0.9981	0.876	2.8634	15.05997
20.1	19.2	0.43	-0.13	0.55	19.1984	2.2398	4	2.71205	111.3029	1.21374	0	1.2137	14.818	2.3909	-5E-04	4	0.9738	0.8749	2.7991	14.87087
20.2	18.8	0.45	0.03	0.55	18.8004	2.3936	4	2.73623	111.5844	1.21932	0	1.2193	14.419	2.5596	0.0001	4	0.9844	0.8697	2.8262	14.45058
20.3	18.6	0.46	0.01	0.55	18.6001	2.4731	4	2.74832	111.7191	1.22491	0	1.2249	14.185	2.6475	4E-05	4	0.9904	0.865	2.8408	14.20483
20.4	20	0.48	0.07	0.51	20.0009	2.3999	4	2.71514	112.2076	1.23052	0	1.2305	15.254	2.5572	0.0003	4	0.9771	0.8629	2.8056	15.30683
20.5	19	0.49	0.64	0.51	19.0078	2.5779	4	2.75134	112.2343	1.23613	0	1.2361	14.377	2.7572	0.0026	4	0.993	0.8569	2.8464	14.39246
20.6	19.4	0.47	0.88	0.51	19.4108	2.4213	4	2.72793	111.9805	1.24173	0	1.2417	14.632	2.5868	0.0035	4	0.9845	0.8542	2.8236	14.66845
20.7	20.4	0.54	0.85	0.51	20.4104	2.6457	4	2.73327	113.1189	1.24739	0	1.2474	15.363	2.8179	0.0032	4	0.9865	0.8502	2.8282	15.3967
20.8	20	0.6	0.78	0.52	20.0096	2.9986	4	2.77309	113.8414	1.25308	0	1.2531	14.968	3.1989	0.003	3	1	0.8444	2.8709	14.96831
20.9	19.2	0.61	0.75	0.52	19.2092	3.1756	4	2.80237	113.8628	1.25877	0	1.2588	14.26	3.3983	0.003	3	1	0.8406	2.9035	14.26025
21	19.2	0.61	1.14	0.5	19.214	3.1748	4	2.80222	113.8634	1.26447	0	1.2645	14.195	3.3984	0.0046	3	1	0.8368	2.9051	14.19532

21.1	25.1	0.65	1.51	0.49	25.1185	2.5877	4	2.65584	114.9817	1.27021	0	1.2702	18.775	2.7256	0.0046	4	0.9569	0.8396	2.7477	18.92337
21.2	34.9	0.77	1.08	0.49	34.9132	2.2055	4	2.50061	117.0244	1.27607	0	1.2761	26.36	2.2891	0.0023	4	0.8935	0.8459	2.5804	26.89114
21.3	41.8	0.98	-0.06	0.49	41.7993	2.3445	5	2.45719	119.228	1.28203	0	1.282	31.604	2.4187	-1E-04	4	0.8755	0.8453	2.5323	32.36867
21.4	40.4	1.13	-0.68	0.49	40.3917	2.7976	4	2.51865	120.1866	1.28804	0	1.288	30.359	2.8898	-0.001	4	0.9002	0.8378	2.5966	30.96052
21.5	33.2	1.11	-0.66	0.49	33.1919	3.3442	4	2.63386	119.5771	1.29402	0	1.294	24.65	3.4799	-0.001	4	0.9478	0.8263	2.7208	24.91058
21.6	26.2	1.07	-0.58	0.49	26.1929	4.0851	4	2.76848	118.7309	1.29995	0	1.3	19.149	4.2984	-0.002	3	1	0.814	2.8673	19.14914
21.7	25.1	1.06	-0.49	0.5	25.094	4.2241	3	2.79206	118.5577	1.30588	0	1.3059	18.216	4.456	-0.001	3	1	0.8103	2.894	18.21617
21.8	32.8	1.06	-0.19	0.53	32.7977	3.2319	4	2.62797	119.2107	1.31184	0	1.3118	24.001	3.3666	-4E-04	4	0.9484	0.8156	2.7202	24.26876
21.9	45.4	1.09	-0.03	0.55	45.3996	2.4009	5	2.4367	120.2079	1.31785	0	1.3179	33.45	2.4727	-5E-05	4	0.8717	0.8258	2.518	34.40506
22	58.1	1.12	-0.7	0.55	58.0914	1.928	5	2.2934	121.0078	1.3239	0	1.3239	42.879	1.973	-9E-04	5	0.8149	0.8331	2.3679	44.69523
22.1	70.4	1.12	-1.39	0.55	70.383	1.5913	5	2.17582	121.476	1.32997	0	1.33	51.921	1.6219	-0.001	5	0.7687	0.8388	2.2458	54.74072
22.2	82.3	1.06	-0.81	0.55	82.2901	1.2881	5	2.06461	121.4543	1.33605	0	1.3361	60.592	1.3094	-7E-04	5	0.7254	0.8444	2.1313	64.59963
22.3	93.1	1.06	-0.68	0.55	93.0917	1.1387	6	1.98915	121.7551	1.34214	0	1.3421	68.361	1.1553	-5E-04	5	0.6962	0.8474	2.0537	73.48274
22.4	101.5	1.06	-0.68	0.53	101.492	1.0444	6	1.9363	121.9658	1.34823	0	1.3482	74.278	1.0585	-5E-04	6	0.6759	0.8489	1.9996	80.34629
22.5	113.6	1.12	-0.68	0.53	113.592	0.986	6	1.88275	122.6434	1.35437	0	1.3544	82.871	0.9979	-4E-04	6	0.6548	0.8508	1.9443	90.24265
22.6	124.4	1.27	-0.68	0.53	124.392	1.021	6	1.86272	123.7846	1.36055	0	1.3606	90.427	1.0323	-4E-04	6	0.647	0.8499	1.9231	98.81913
22.7	135.3	1.48	-0.67	0.51	135.292	1.0939	6	1.85568	125.1092	1.36681	0	1.3668	97.984	1.1051	-4E-04	6	0.6443	0.848	1.9151	107.3256
22.8	141.9	1.7	-0.6	0.49	141.893	1.1981	6	1.86777	126.2394	1.37312	0	1.3731	102.34	1.2098	-3E-04	6	0.6492	0.8444	1.9272	112.1332
22.9	151.4	1.89	-0.53	0.49	151.394	1.2484	6	1.86024	127.1727	1.37948	0	1.3795	108.75	1.2599	-3E-04	6	0.6464	0.8425	1.9192	119.4386
23	162.9	2.09	-0.53	0.47	162.894	1.2831	6	1.84644	128.0872	1.38589	0	1.3859	116.54	1.2941	-2E-04	6	0.6412	0.8411	1.9047	128.3864
23.1	190.6	2.32	-0.46	0.47	190.594	1.2172	6	1.78293	129.2342	1.39235	0	1.3924	135.89	1.2262	-2E-04	6	0.6162	0.8444	1.8383	150.9858
23.2	213.8	2.46	-0.59	0.45	213.793	1.1507	6	1.73117	129.9431	1.39884	0	1.3988	151.84	1.1582	-2E-04	6	0.5961	0.8467	1.7846	169.9601
23.3	234.8	2.57	-0.6	0.45	234.793	1.0946	6	1.68782	130.4917	1.40537	0	1.4054	166.07	1.1012	-2E-04	6	0.5793	0.8484	1.7399	187.1289
23.4	253.5	2.88	-0.54	0.43	253.493	1.1361	6	1.67811	131.5119	1.41194	0	1.4119	178.53	1.1425	-2E-04	6	0.5756	0.847	1.7293	201.7889
23.5	262.3	3.12	-0.6	0.43	262.293	1.1895	6	1.68381	132.1808	1.41855	0	1.4186	183.9	1.196	-2E-04	6	0.5781	0.8441	1.7351	208.1126
23.6	276.5	3.2	-2.4	0.39	276.471	1.1575	6	1.6601	132.4944	1.42518	0	1.4252	192.99	1.1634	-6E-04	6	0.5692	0.8441	1.7109	219.408
23.7	269	3.17	-2.29	0.39	268.972	1.1786	6	1.67375	132.3584	1.4318	0	1.4318	186.86	1.1849	-6E-04	6	0.5753	0.8403	1.7261	212.4669
23.8	254.7	3.1	-2.77	0.39	254.666	1.2173	6	1.69971	132.0618	1.4384	0	1.4384	176.05	1.2242	-8E-04	6	0.5864	0.8352	1.7543	199.8891
23.9	254.4	2.88	-0.68	0.41	254.392	1.1321	6	1.67594	131.5205	1.44498	0	1.445	175.05	1.1386	-2E-04	6	0.5779	0.8352	1.7313	199.6593
24	244.5	2.81	-0.17	0.4	244.498	1.1493	6	1.69213	131.2437	1.45154	0	1.4515	167.44	1.1562	-5E-05	6	0.5851	0.8311	1.7494	190.9078
24.1	203.6	2.83	-0.27	0.39	203.597	1.39	6	1.80661	130.8491	1.45808	0	1.4581	138.63	1.4	-1E-04	6	0.6314	0.8167	1.8699	156.0281
24.2	155	2.77	-0.24	0.39	154.997	1.7871	6	1.96677	130.0271	1.46458	0	1.4646	104.83	1.8042	-1E-04	5	0.6961	0.7975	2.0391	115.7149
24.3	116.5	2.54	-0.17	0.39	116.498	2.1803	5	2.11394	128.6964	1.47102	0	1.471	78.196	2.2082	-1E-04	5	0.7567	0.7794	2.1964	84.72272
24.4	89.2	2.33	-0.15	0.39	89.1982	2.6122	5	2.25039	127.4138	1.47739	0	1.4774	59.376	2.6562	-1E-04	5	0.8128	0.7624	2.3431	63.2041
24.5	66.1	2.17	-0.15	0.38	66.0982	3.283	4	2.41206	126.1622	1.48369	0	1.4837	43.55	3.3584	-2E-04	4	0.8794	0.7428	2.5174	45.36172
24.6	51.2	2.05	-0.15	0.37	51.1982	4.0041	4	2.55122	125.123	1.48995	0	1.49	33.362	4.1241	-2E-04	4	0.9373	0.7256	2.6687	34.08615
24.7	39.7	1.77	-0.15	0.38	39.6982	4.4586	4	2.6623	123.4279	1.49612	0	1.4961	25.534	4.6333	-3E-04	3	0.985	0.7109	2.7933	25.66719
24.8	30	1.49	-0.15	0.38	29.9982	4.967	3	2.78235	121.4846	1.5022	0	1.5022	18.97	5.2288	-4E-04	3	1	0.7044	2.9261	18.96954
24.9	22.5	0.77	-0.15	0.37	22.4982	3.4225	4	2.76903	115.9526	1.50799	0	1.508	13.919	3.6684	-5E-04	3	1	0.7017	2.932	13.91927
25	17.3	0.56	-0.08	0.37	17.299	3.2372	3	2.84347	112.9816	1.51364	0	1.5136	10.429	3.5476	-4E-04	3	1	0.6991	3.0239	10.42873
25.1	14.5	0.46	0.03	0.37	14.5004	3.1723	3	2.89944	111.1118	1.5192	0	1.5192	8.5448	3.5436	0.0002	3	1	0.6965	3.0942	8.54475
25.2	13.8	0.38	0.04	0.36	13.8005	2.7535	3	2.88089	109.5932	1.52468	0	1.5247	8.0514	3.0955	0.0002	3	1	0.694	3.0824	8.05141
25.3	14.2	0.33	0.04	0.35	14.2005	2.3239	4	2.8288	108.6306	1.53011	0	1.5301	8.2807	2.6045	0.0002	3	1	0.6915	3.0312	8.2807
25.4	13.9	0.29	0.08	0.35	13.901	2.0862	4	2.81053	107.6332	1.53549	0	1.5355	8.0531	2.3452	0.0005	3	1	0.6891	3.0171	8.05311
25.5	14.2	0.27	0.11	0.35	14.2014	1.9012	4	2.78083	107.1625	1.54085	0	1.5409	8.2166	2.1326	0.0006	3	1	0.6867	2.9881	8.21657
25.6	14.7	0.27	0.12	0.36	14.7015	1.8366	4	2.76007	107.2469	1.54621	0	1.5462	8.5081	2.0524	0.0007	3	1	0.6843	2.9665	8.50805
25.7	15.3	0.34	0.08	0.37	15.301	2.2221	4	2.79105	109.0311	1.55166	0	1.5517	8.861	2.4729	0.0004	3	1	0.6819	2.9942	8.86102
25.8	16.3	0.42	0.1	0.37	16.3012	2.5765	4	2.80521	110.7317	1.5572	0	1.5572	9.4683	2.8486	0.0005	3	1	0.6795	3.0038	9.46829
25.9	20	0.55	0.15	0.38	20.0018	2.7498	4	2.75037	113.2038	1.56286	0	1.5629	11.798	2.9828	0.0006	3	1	0.677	2.9365	11.79822
26	31.5	0.73	0.18	0.39	31.5022	2.3173	4	2.54891	116.3833	1.56868	0	1.5687	19.082	2.4387	0.0004	4	0.9567	0.6861	2.71	19.40978
26.1	47.9	0.93	0.06	0.39	47.9007	1.9415	5	2.35919	119.1772	1.57464	0	1.5746	29.42	2.0075	9E-05	5	0.8764	0.7058	2.4978	30.90204
26.2	65.4	1.09	-0.7	0.4	65.3914	1.6669	5	2.21318	121.0979	1.58069	0	1.5807	40.369	1.7082	-8E-04	5	0.8159	0.7207	2.3379	43.46496
26.3	80.1	0.84	-1.92	0.41	80.0765	1.049	6	2.01764	119.6857	1.58668	0	1.5867	49.468	1.0702	-0.002	5	0.738	0.7416	2.1337	55.00919
26.4	89.4	0.91	-2.77	0.42	89.3661	1.0183	6	1.97221	120.5391	1.5927	0	1.5927	55.11	1.0368	-0.002	5	0.7196	0.7451	2.0847	61.8066
26.5	97	1.08	-3.87	0.43	96.9526	1.114	6	1.9695	121.991	1.5988	0	1.5988	59.641	1.1326	-0.003	5	0.718	0.7435	2.0798	67.00294
26.6	101.7	1.22	-4.69	0.42	101.643	1.2003	6	1.97501	122.9981	1.60495	0	1.605	62.331	1.2195	-0.003	5	0.7201	0.7408	2.0846	70.0389
26.7	96.4	1.26	-5.1	0.39	96.3376	1.3079	6	2.01711	123.1034	1.61111	0	1.6111	58.796	1.3302	-0.004	5	0.7378	0.7333	2.1302	65.6489
26.8	91	1.25	-5.2	0.4	90.9364	1.3746	5	2.05019	122.9044	1.61725	0	1.6173	55.229	1.3995	-0.004	5	0.7521	0.7268	2.1669	61.355
26.9	85.3	1.24	-2.92	0.39	85.2643	1.4543	5	2.08736	122.6885	1.62339	0	1.6234	51.522	1.4825	-0.003	5	0.768	0.7198	2.2081	56.90055
27	84.5	1.24	-1.15	0.37	84.4859	1.4677	5	2.09299	122.6661	1.62952	0	1.6295	50.847	1.4966	-0.001	5	0.7711	0.7168	2.2153	56.13054
27.1	90.6	1.25	-1.95	0.38	90.5761	1.3801	5	2.05263	122.8947	1.63567	0	1.6357	54.376	1.4054	-0.002	5	0.7552	0.7197	2.1728	60.49442
27.2	98.1	1.28	-3.94	0.39	98.0518	1.3054	6	2.01084	123.2616	1.64183	0	1.6418	58.721	1.3277	-0.003	5	0.7386	0.7229	2.1286	65.86674
27.3	98.6	1.32	-7.26	0.39	98.5111	1.34	6	2.01687	123.4982	1.648	0	1.648	58.776	1.3628	-0.005	5	0.7416	0.72	2.1355	65.90711
27.4	91.5	1.42	-9.27	0.39	91.3865	1.5538	5	2.08426	123.8494	1.6542	0	1.6542	54.245	1.5825	-0.007	5	0.7693	0.7091	2.2076	60.13522
27.5	80.5	1.56	-9.52	0.39	80.3835	1.9407	5	2.19089	124.2245	1.66041	0	1.6604	47.412	1.9816	-0.009	5	0.8131	0.6933	2.3217	51.57848
27.6	66.9	1.63	-9.65	0.39	66.7819	2.4408	5	2.31789	124.0936	1.66661	0	1.6666	39.07	2.5033	-0.011	5	0.8662	0.6747	2.4594	41.51935
27.7	53.5	1.57	-9.73	0.39	53.3809	2.9411	5	2.44415	123.2729	1.67278	0	1.6728	30.912	3.0363	-0.014	4	0.9195	0.6563	2.599	32.07235
27.8	47.9	1.48	-10.09	0.41	47.7765	3.0978	4	2.49461	122.5704	1.67891	0	1.6789	27.457	3.2106	-0.016	4	0.9419	0.6474	2.6571	28.2036
27.9	50.3	1.51	-10.17	0.39	50.1755	3.0094	4	2.47051	122.8367	1.68505	0	1.6851	28.777	3.114	-0.015	4	0.9324	0.648	2.6315	29.69597
28	57.8	1.65	-10.24	0.38	57.6747	2.8609	5	2.4116	123.8252	1.69124	0	1.6912	33.102	2.9473	-0.013	4	0.9079	0.6533	2.566	34.56372
28.1	67.3	1.72	-10.66	0.37	67.1695	2.5607	5	2.33058	124.5009	1.69746	0	1.6975	38.571	2.6271	-0.012	4	0.8747	0.6614	2.4779	40.92358

28.2	70.2	1.55	-11.17	0.39	70.0633	2.2123	5	2.27334	123.8423	1.70366	0	1.7037	40.125	2.2674	-0.012	5	0.8528	0.6662	2.4194	43.03921
28.3	74.8	1.36	-11.41	0.39	74.6603	1.8216	5	2.19563	123.0405	1.70981	0	1.7098	42.666	1.8643	-0.011	5	0.8221	0.674	2.3392	46.46923
28.4	84	1.31	-11.51	0.39	83.8591	1.5621	5	2.11343	123.0498	1.71596	0	1.716	47.87	1.5948	-0.01	5	0.7891	0.6828	2.252	53.0079
28.5	90.1	1.21	-11.48	0.39	89.9595	1.3451	5	2.04748	122.6401	1.72209	0	1.7221	51.238	1.3713	-0.009	5	0.7633	0.6895	2.1834	57.49981
28.6	95	1.05	-11.4	0.38	94.8605	1.1069	6	1.97499	121.7317	1.72818	0	1.7282	53.89	1.1274	-0.009	5	0.7352	0.6972	2.1089	61.3652
28.7	100.6	1.07	-11.38	0.39	100.461	1.0651	6	1.94516	122.0096	1.73428	0	1.7343	56.926	1.0838	-0.008	5	0.7235	0.6994	2.0773	65.26131
28.8	106.8	1.11	-11.38	0.38	106.661	1.0407	6	1.91876	122.4242	1.7404	0	1.7404	60.285	1.058	-0.008	6	0.713	0.7013	2.049	69.54117
28.9	116	1.29	-11.42	0.38	115.86	1.1134	6	1.91076	123.7256	1.74659	0	1.7466	65.335	1.1305	-0.007	6	0.7092	0.7009	2.0382	75.58794
29	126.7	1.44	-11.53	0.39	126.559	1.1378	6	1.88857	124.7459	1.75282	0	1.7528	71.203	1.1538	-0.007	6	0.6998	0.7024	2.0129	82.85195
29.1	135.1	1.53	-11.67	0.39	134.957	1.1337	6	1.86702	125.3462	1.75909	0	1.7591	75.72	1.1487	-0.006	6	0.6911	0.7038	1.9893	88.59278
29.2	143.4	1.5	-11.87	0.39	143.255	1.0471	6	1.82453	125.3469	1.76536	0	1.7654	80.148	1.0602	-0.006	6	0.6745	0.7081	1.9448	94.67974
29.3	153.2	1.16	-12.03	0.38	153.053	0.7579	6	1.7101	123.6274	1.77154	0	1.7715	85.395	0.7668	-0.006	6	0.6301	0.7227	1.8275	103.3308
29.4	159.7	1.34	-12.06	0.38	159.552	0.8399	6	1.72554	124.7843	1.77778	0	1.7778	88.748	0.8493	-0.006	6	0.636	0.7189	1.8421	107.2002
29.5	163.9	1.46	-12.06	0.38	163.752	0.8916	6	1.73452	125.4753	1.78405	0	1.7841	90.787	0.9014	-0.005	6	0.6396	0.716	1.8509	109.594
29.6	162.7	1.46	-11.91	0.37	162.554	0.8982	6	1.73903	125.4573	1.79033	0	1.7903	89.796	0.9082	-0.005	6	0.6421	0.7134	1.8567	108.393
29.7	158.1	1.35	-11.83	0.37	157.955	0.8547	6	1.73385	124.8142	1.79657	0	1.7966	86.921	0.8645	-0.005	6	0.6412	0.7122	1.8536	105.101
29.8	151.7	1.24	-12.01	0.36	151.553	0.8182	6	1.7349	124.0914	1.80277	0	1.8028	83.067	0.8281	-0.006	6	0.643	0.7099	1.8574	100.4718
29.9	140.2	0.91	-12.16	0.36	140.051	0.6498	6	1.69834	121.6348	1.80885	0	1.8089	76.425	0.6583	-0.006	6	0.631	0.713	1.825	93.14948
30	127.1	0.84	-12.27	0.37	126.95	0.6617	6	1.73711	120.8096	1.81489	0	1.8149	68.949	0.6713	-0.007	6	0.6482	0.7049	1.8696	83.35959
30.1	118.2	1.01	-12.36	0.35	118.049	0.8556	6	1.83061	121.9809	1.82099	0	1.821	63.827	0.869	-0.008	6	0.6861	0.689	1.9684	75.68466
30.2	113.4	1.21	-12.2	0.33	113.251	1.0684	6	1.9064	123.2016	1.82715	0	1.8272	60.982	1.086	-0.008	6	0.7167	0.6761	2.0478	71.19064
30.3	110.1	1.37	-11.73	0.31	109.956	1.246	6	1.96027	124.0383	1.83335	0	1.8334	58.976	1.2671	-0.008	5	0.7386	0.6663	2.1046	68.08939
30.4	109.7	1.43	-12.08	0.3	109.552	1.3053	6	1.97507	124.343	1.83957	0	1.8396	58.553	1.3276	-0.008	5	0.745	0.6623	2.1207	67.42132
30.5	102.6	1.55	-12.3	0.3	102.449	1.5129	5	2.04005	124.7691	1.84581	0	1.8458	54.504	1.5407	-0.009	5	0.7719	0.6508	2.1906	61.87873
30.6	88.7	1.7	-12.43	0.3	88.5479	1.9199	5	2.15734	125.0893	1.85206	0	1.8521	46.81	1.9609	-0.01	5	0.8206	0.6317	2.3176	51.75655
30.7	69.3	1.61	-12.51	0.29	69.1469	2.3284	5	2.29281	124.0881	1.85827	0	1.8583	36.21	2.3927	-0.013	5	0.8791	0.6095	2.4692	38.76077
30.8	65.6	1.44	-12.51	0.28	65.4469	2.2003	5	2.29329	123.1375	1.86443	0	1.8644	34.103	2.2648	-0.014	5	0.8813	0.607	2.4741	36.47456
30.9	71.1	1.27	-12.44	0.26	70.9477	1.7901	5	2.20697	122.4151	1.87055	0	1.8706	36.929	1.8385	-0.013	5	0.8465	0.6174	2.3834	40.30343
31	70.3	1.23	-12.5	0.26	70.147	1.7535	5	2.20468	122.1533	1.87665	0	1.8767	36.379	1.8017	-0.013	5	0.8466	0.6156	2.3829	39.72068
31.1	61.1	1.23	-12.51	0.26	60.9469	2.0182	5	2.29088	121.8104	1.88274	0	1.8827	31.371	2.0825	-0.015	5	0.8843	0.6008	2.4796	33.53429
31.2	47.7	1.21	-12.45	0.26	47.5476	2.5448	5	2.43838	121.0849	1.8888	0	1.8888	24.173	2.6501	-0.02	4	0.9475	0.5775	2.6457	24.91978
31.3	34.8	1.24	-12.38	0.26	34.6485	3.5788	4	2.63962	120.4922	1.89482	0	1.8948	17.286	3.7858	-0.027	3	1	0.5584	2.8665	17.28586
31.4	24.9	1.18	-12.36	0.26	24.7487	4.7679	3	2.83157	119.3086	1.90079	0	1.9008	12.02	5.1646	-0.039	3	1	0.5567	3.074	12.02023
31.5	20.5	0.98	-12.32	0.26	20.3492	4.8159	3	2.89805	117.4723	1.90666	0	1.9067	9.6727	5.3138	-0.048	3	1	0.555	3.1555	9.67268
31.6	19	0.85	-12.25	0.26	18.8501	4.5093	3	2.90469	116.2444	1.91247	0	1.9125	8.8564	5.0184	-0.052	3	1	0.5533	3.1706	8.85637
31.7	18.2	0.81	-12.21	0.26	18.0506	4.4874	3	2.91774	115.786	1.91826	0	1.9183	8.4098	5.021	-0.054	3	1	0.5516	3.1887	8.40984
31.8	17.9	0.72	-12.24	0.26	17.7502	4.0563	3	2.89544	114.8832	1.92401	0.00312	1.9209	8.239	4.5494	-0.056	3	1	0.5508	3.1702	8.23899
31.9	17.4	0.69	-12.28	0.26	17.2497	4.0001	3	2.90127	114.5021	1.92973	0.00624	1.9235	7.9647	4.5039	-0.058	3	1	0.5501	3.1795	7.96465
32	17.6	0.71	-12.28	0.28	17.4497	4.0688	3	2.90204	114.7392	1.93547	0.00936	1.9261	8.0547	4.5765	-0.058	3	1	0.5494	3.1797	8.05469
32.1	18.7	0.67	-12.26	0.28	18.5499	3.6119	3	2.8489	114.4641	1.94119	0.01248	1.9287	8.6113	4.034	-0.054	3	1	0.5486	3.124	8.61131
32.2	17.4	0.6	-12.21	0.28	17.2506	3.4782	3	2.86351	113.4795	1.94687	0.0156	1.9313	7.9242	3.9206	-0.058	3	1	0.5479	3.1462	7.92416
32.3	15.2	0.57	-12.21	0.28	15.0506	3.7872	3	2.93298	112.7715	1.95251	0.01872	1.9338	6.7733	4.3518	-0.069	3	1	0.5472	3.228	6.77326
32.4	14	0.52	-12.21	0.28	13.8506	3.7544	3	2.95927	111.8971	1.9581	0.02184	1.9363	6.142	4.3725	-0.076	3	1	0.5465	3.264	6.14197
32.5	14.5	0.46	-12.22	0.28	14.3504	3.2055	3	2.90575	111.0865	1.96366	0.02496	1.9387	6.3892	3.7136	-0.073	3	1	0.5458	3.2099	6.38923
32.6	15.1	0.49	-12.28	0.28	14.9497	3.2777	3	2.89726	111.6485	1.96924	0.02808	1.9412	6.687	3.7749	-0.07	3	1	0.5451	3.1975	6.68697
32.7	17.3	0.57	-13.23	0.26	17.1381	3.3259	3	2.85384	113.0883	1.97489	0.0312	1.9437	7.8012	3.7591	-0.065	3	1	0.5444	3.1413	7.80122
32.8	16.5	0.64	-13.34	0.27	16.3367	3.9176	3	2.91404	113.819	1.98058	0.03432	1.9463	7.3763	4.458	-0.069	3	1	0.5437	3.2039	7.37626
32.9	18.8	0.73	-13.4	0.29	18.636	3.9172	3	2.86946	115.1029	1.98634	0.03744	1.9489	8.5431	4.3845	-0.06	3	1	0.5429	3.148	8.54311
33	21.9	0.76	-13.41	0.3	21.7359	3.4965	4	2.7865	115.7729	1.99213	0.04056	1.9516	10.117	3.8493	-0.051	3	1	0.5422	3.0554	10.11686
33.1	25.4	0.86	-13.41	0.31	25.2359	3.4079	4	2.72943	117.0415	1.99798	0.04368	1.9543	11.891	3.7009	-0.043	3	1	0.5414	2.9888	11.89065
33.2	30.4	1.06	-13.41	0.33	30.2359	3.5058	4	2.67781	119.0123	2.00393	0.0468	1.9571	14.425	3.7546	-0.036	3	1	0.5406	2.9259	14.42517
33.3	31.3	1.19	-13.46	0.32	31.1353	3.822	4	2.69321	119.9303	2.00993	0.04992	1.96	14.86	4.0858	-0.035	3	1	0.5399	2.9384	14.85981
33.4	29.8	1.2	-13.19	0.31	29.6386	4.0488	4	2.72586	119.8714	2.01592	0.05304	1.9629	14.073	4.3443	-0.036	3	1	0.5391	2.9735	14.07251
33.5	29.6	1.25	-12.93	0.31	29.4417	4.2457	4	2.74187	120.1538	2.02193	0.05616	1.9658	13.949	4.5588	-0.036	3	1	0.5383	2.9896	13.94865
33.6	30.5	1.1	-12.86	0.32	30.3426	3.6253	4	2.68628	119.292	2.02789	0.05928	1.9686	14.383	3.8849	-0.035	3	1	0.5375	2.936	14.38308
33.7	41.5	0.99	-12.81	0.33	41.3432	2.3946	5	2.46676	119.2755	2.03386	0.0624	1.9715	19.939	2.5185	-0.025	4	0.9732	0.5457	2.7031	20.27434
33.8	71.2	1.13	-12.81	0.33	71.0432	1.5906	5	2.17262	121.5638	2.03993	0.06552	1.9744	34.949	1.6376	-0.014	5	0.8457	0.59	2.3684	38.47881
33.9	88.1	1.45	-12.83	0.33	87.943	1.6488	5	2.11399	123.9087	2.04613	0.06864	1.9775	43.437	1.6881	-0.012	5	0.8185	0.5994	2.2964	48.6594
34	72.4	1.68	-12.87	0.34	72.2425	2.3255	5	2.27874	124.5064	2.05235	0.07176	1.9806	35.439	2.3935	-0.014	4	0.8875	0.5733	2.4756	38.02986
34.1	62	1.78	-12.81	0.35	61.8432	2.8783	5	2.39175	124.5503	2.05858	0.07488	1.9837	30.138	2.9774	-0.017	4	0.9349	0.5557	2.6004	31.39697
34.2	55.7	1.88	-12.8	0.35	55.5433	3.3847	4	2.47447	124.6882	2.06482	0.078	1.9868	26.917	3.5154	-0.019	4	0.9697	0.5428	2.6919	27.43583
34.3	55	2.04	-12.74	0.35	54.8441	3.7196	4	2.50745	125.255	2.07108	0.08112	1.99	26.52	3.8656	-0.019	4	0.983	0.5375	2.7267	26.80591
34.4	55.4	2.21	-12.74	0.35	55.2441	4.0004	4	2.52793	125.8584	2.07737	0.08424	1.9931	26.675	4.1567	-0.019	4	0.9917	0.5337	2.7476	26.81622
34.5	45.6	2.18	-12.74	0.37	45.4441	4.7971	4	2.64357	125.2821	2.08364	0.08736	1.9963	21.721	5.0276	-0.023	3	1	0.53	2.8709	21.72065
34.6	38.3	1.89	-12.74	0.37	38.1441	4.9549	4	2.7069	123.8105	2.08983	0.09048	1.9994	18.033	5.2421	-0.028	3	1	0.5292	2.9433	18.03301
34.7	34.9	1.59	-12.8	0.39	34.7433	4.5764	4	2.71167	122.318	2.09594	0.0936	2.0023	16.305	4.8702	-0.031	3	1	0.5284	2.9557	16.30459
34.8	57.4	1.32	-12.81	0.39	57.2432	2.306	5	2.34987	122.1742	2.10205	0.09672	2.0053	27.497	2.3939	-0.018	4	0.9237	0.554	2.5681	28.87181
34.9	94.9	1.1	-12.75	0.39	94.7439	1.161	6	1.98874	122.0691	2.10815	0.09984	2.0083	46.126	1.1875	-0.011	5	0.7721	0.6097	2.1709	53.37765
35	120.7	1.07	-12.74	0.39	120.544	0.8876	6	1.83369	122.4541	2.11428	0.10296	2.0113	58.882	0.9035	-0.009	6	0.7074	0.6349	2.0005	71.05578
35.1	131.9	1.33	-12.74	0.39	131.744	1.0095	6	1.8408	124.2624	2.12049	0.10608	2.0144	64.348	1.0261	-0.008	6	0.7085	0.6337	2.003	77.63297
35.2	123.4	1.55	-12.74	0.39	123.244	1.2577	6	1.92661	125.2198	2.12675	0.1092	2.0176	60.032	1.2798	-0.008	5	0.7433	0.619	2.0939	70.85077

35.3	131	1.52	-12.22	0.39	130.85	1.1616	6	1.88404	125.2229	2.13301	0.11232	2.0207	63.7	1.1809	-0.008	5	0.7259	0.6252	2.048	76.05833
35.4	126.7	1.72	-12.2	0.41	126.551	1.3591	6	1.94158	126.0459	2.13932	0.11544	2.0239	61.472	1.3825	-0.008	5	0.7491	0.6152	2.1085	72.3346
35.5	120.2	2	-12.15	0.4	120.051	1.666	5	2.02017	127.0208	2.14567	0.11856	2.0271	58.165	1.6963	-0.008	5	0.7808	0.6019	2.1913	67.07326
35.6	122.8	2.11	-12.06	0.41	122.652	1.7203	5	2.02366	127.4649	2.15204	0.12168	2.0304	59.349	1.751	-0.008	5	0.782	0.6007	2.1941	68.4099
35.7	131.1	2.09	-11.99	0.43	130.953	1.596	6	1.98048	127.5549	2.15842	0.1248	2.0336	63.333	1.6227	-0.008	5	0.7643	0.6069	2.1472	73.87717
35.8	149.7	2.04	-12.06	0.41	149.552	1.3641	6	1.89137	127.7016	2.1648	0.12792	2.0369	72.359	1.3841	-0.007	5	0.7275	0.621	2.0501	86.49942
35.9	187.9	2.02	-12.06	0.43	187.752	1.0759	6	1.74861	128.1844	2.17121	0.13104	2.0402	90.964	1.0885	-0.005	6	0.6681	0.6449	1.8937	113.1134
36	213	2.02	-12.06	0.45	212.852	0.949	6	1.67155	128.4904	2.17764	0.13416	2.0435	103.1	0.9588	-0.005	6	0.6362	0.6579	1.8095	130.9925
36.1	232.3	2.17	-12.06	0.45	232.152	0.9347	6	1.64068	129.2262	2.1841	0.13728	2.0468	112.35	0.9436	-0.004	6	0.6228	0.663	1.774	144.1034
36.2	241.4	2.43	-12.06	0.45	241.252	1.0072	6	1.6531	130.148	2.1906	0.1404	2.0502	116.6	1.0165	-0.004	6	0.6271	0.6605	1.7849	149.223
36.3	249.5	2.67	-11.99	0.47	249.353	1.0708	6	1.66335	130.9177	2.19715	0.14352	2.0536	120.35	1.0803	-0.004	6	0.6307	0.6582	1.7939	153.7492
36.4	253.6	2.83	-11.98	0.47	253.453	1.1166	6	1.67243	131.3833	2.20372	0.14664	2.0571	122.14	1.1264	-0.004	6	0.6341	0.656	1.8026	155.7703
36.5	255	2.95	-11.93	0.48	254.854	1.1575	6	1.68277	131.7007	2.2103	0.14976	2.0605	122.61	1.1677	-0.004	6	0.6383	0.6535	1.8131	156.0323
36.6	253.8	3	-11.86	0.5	253.655	1.1827	6	1.69123	131.8121	2.2169	0.15288	2.064	121.82	1.1931	-0.004	6	0.642	0.6512	1.8223	154.7411
36.7	248.6	3.01	-11.83	0.51	248.455	1.2115	6	1.70501	131.786	2.22348	0.156	2.0675	119.1	1.2224	-0.004	6	0.648	0.6479	1.8378	150.7619
36.8	239.9	2.99	-11.87	0.52	239.755	1.2471	6	1.72462	131.6502	2.23007	0.15912	2.071	114.69	1.2588	-0.004	6	0.6566	0.6434	1.8599	144.4365
36.9	234.8	2.96	-11.87	0.53	234.655	1.2614	6	1.73444	131.524	2.23664	0.16224	2.0744	112.04	1.2736	-0.004	6	0.6612	0.6408	1.8714	140.7446
37	237.6	2.98	-11.8	0.54	237.456	1.255	6	1.7294	131.6022	2.24322	0.16536	2.0779	113.2	1.2669	-0.004	6	0.6593	0.6409	1.8661	142.4586
37.1	248.5	3.05	-11.73	0.54	248.356	1.2281	6	1.70964	131.8816	2.24982	0.16848	2.0813	118.24	1.2393	-0.004	6	0.6511	0.6437	1.8441	149.7227
37.2	262.5	3.16	-11.66	0.54	262.357	1.2045	6	1.68792	132.2746	2.25643	0.1716	2.0848	124.76	1.2149	-0.004	6	0.6419	0.647	1.8196	159.0507
37.3	274.3	3.26	-11.6	0.55	274.158	1.1891	6	1.67148	132.6099	2.26306	0.17472	2.0883	130.2	1.199	-0.004	6	0.635	0.6494	1.801	166.8663
37.4	281.6	3.28	-11.58	0.55	281.458	1.1654	6	1.65748	132.7187	2.2697	0.17784	2.0919	133.46	1.1748	-0.004	6	0.6294	0.6512	1.7858	171.8152
37.5	284.1	3.13	-11.53	0.55	283.959	1.1023	6	1.63635	132.3978	2.27632	0.18096	2.0954	134.43	1.1112	-0.004	6	0.6214	0.654	1.7644	174.1155
37.6	283.6	2.83	-11.53	0.55	283.459	0.9984	6	1.60391	131.6562	2.2829	0.18408	2.0988	133.97	1.0065	-0.004	6	0.6093	0.6588	1.7321	175.0701
37.7	282.4	2.47	-11.53	0.55	282.259	0.8751	6	1.56207	130.6504	2.28943	0.1872	2.1022	133.18	0.8822	-0.004	6	0.5936	0.6653	1.6905	176.031
37.8	279.2	2.11	-11.45	0.55	279.06	0.7561	6	1.51886	129.4699	2.29591	0.19032	2.1056	131.44	0.7624	-0.004	6	0.5776	0.672	1.6479	175.7822
37.9	276.1	1.8	-11.45	0.55	275.96	0.6523	6	1.47658	128.28	2.30232	0.19344	2.1089	129.76	0.6578	-0.004	6	0.5619	0.6788	1.6062	175.5441
38	271	1.59	-11.37	0.55	270.861	0.587	6	1.4508	127.3268	2.30869	0.19656	2.1121	127.15	0.5921	-0.004	6	0.5527	0.6825	1.5815	173.2199
38.1	263	1.5	-11.23	0.55	262.863	0.5706	6	1.45206	126.8273	2.31503	0.19968	2.1154	123.17	0.5757	-0.004	6	0.5541	0.6813	1.5848	167.7494
38.2	253.6	1.51	-11.23	0.55	253.463	0.5958	6	1.47635	126.7871	2.32137	0.2028	2.1186	118.54	0.6013	-0.004	6	0.5645	0.6758	1.6118	160.3925
38.3	238.6	1.35	-11.23	0.55	238.463	0.5661	6	1.48138	125.8188	2.32766	0.20592	2.1217	111.29	0.5717	-0.004	6	0.5681	0.6735	1.6207	150.3078
38.4	222.6	0.92	-11.12	0.55	222.464	0.4136	6	1.41986	122.8435	2.3338	0.20904	2.1248	103.6	0.4179	-0.005	6	0.5462	0.6833	1.5629	142.1536
38.5	209.6	0.96	-11.13	0.55	209.464	0.4583	6	1.46743	123.008	2.33995	0.21216	2.1278	97.342	0.4635	-0.005	6	0.5662	0.6733	1.6149	131.803
38.6	192.9	0.95	-11.15	0.55	192.764	0.4928	6	1.51523	122.7287	2.34609	0.21528	2.1308	89.364	0.4989	-0.005	6	0.5867	0.6632	1.6685	119.3459
38.7	195.6	0.98	-10.97	0.55	195.466	0.5014	6	1.51493	122.9902	2.35224	0.2184	2.1338	90.501	0.5075	-0.005	6	0.5866	0.6627	1.6677	120.9466
38.8	198.2	1.03	-10.93	0.53	198.066	0.52	6	1.52009	123.3865	2.35841	0.22152	2.1369	91.586	0.5263	-0.005	6	0.5886	0.6612	1.6726	122.2984
38.9	198.4	1.06	-10.82	0.53	198.268	0.5346	6	1.52718	123.5991	2.36459	0.22464	2.14	91.546	0.5411	-0.005	6	0.5916	0.6593	1.6801	122.0592
39	200.6	1.1	-10.73	0.53	200.469	0.5487	6	1.53048	123.897	2.37078	0.22776	2.143	92.439	0.5553	-0.005	6	0.5929	0.6581	1.6831	123.2078
39.1	206.8	1.14	-10.7	0.52	206.669	0.5516	6	1.52163	124.2327	2.37699	0.23088	2.1461	95.192	0.558	-0.005	6	0.5891	0.6593	1.6728	127.2931
39.2	213.6	1.21	-10.73	0.52	213.469	0.5668	6	1.51832	124.7477	2.38323	0.234	2.1492	98.214	0.5732	-0.005	6	0.5874	0.6595	1.6679	131.5736
39.3	219.3	1.29	-10.78	0.52	219.168	0.5886	6	1.52016	125.2804	2.38949	0.23712	2.1524	100.72	0.5951	-0.005	6	0.5878	0.6588	1.6686	134.9675
39.4	226.1	1.37	-10.76	0.51	225.968	0.6063	6	1.51857	125.7952	2.39578	0.24024	2.1555	103.72	0.6128	-0.005	6	0.5868	0.6587	1.6656	139.1768
39.5	236.4	1.45	-10.71	0.51	236.269	0.6137	6	1.50762	126.3191	2.4021	0.24336	2.1587	108.33	0.62	-0.004	6	0.5818	0.6604	1.6522	145.9702
39.6	255.7	1.56	-10.78	0.51	255.568	0.6104	6	1.48084	127.0457	2.40845	0.24648	2.162	117.1	0.6162	-0.004	6	0.5701	0.6654	1.621	159.2076
39.7	265.9	1.67	-10.84	0.51	265.767	0.6284	6	1.47707	127.6397	2.41483	0.2496	2.1652	121.63	0.6341	-0.004	6	0.568	0.6658	1.6152	165.7166
39.8	257.2	1.81	-10.91	0.51	257.066	0.7041	6	1.52182	128.1475	2.42124	0.25272	2.1685	117.43	0.7108	-0.004	6	0.5863	0.6566	1.6628	158.0162
39.9	239.8	1.53	-10.87	0.51	239.667	0.6384	6	1.51455	126.7469	2.42758	0.25584	2.1717	109.24	0.6449	-0.004	6	0.5854	0.6565	1.66	147.1824
40	223.2	1.57	-10.85	0.51	223.067	0.7038	6	1.56621	126.7607	2.43392	0.25896	2.175	101.44	0.7116	-0.005	6	0.6072	0.6457	1.7169	134.6291
40.1	209.2	1.64	-10.89	0.51	209.067	0.7844	6	1.61898	126.9218	2.44026	0.26208	2.1782	94.862	0.7937	-0.005	6	0.6293	0.6349	1.7745	123.9752
40.2	188.6	1.66	-10.78	0.49	188.468	0.8808	6	1.6863	126.7575	2.4466	0.2652	2.1814	85.276	0.8924	-0.006	6	0.6579	0.6213	1.8493	109.2227
40.3	174	1.63	-10.71	0.47	173.869	0.9375	6	1.73034	126.4274	2.45292	0.26832	2.1846	78.466	0.9509	-0.006	6	0.6771	0.6121	1.8993	99.16191
40.4	168.7	1.64	-10.88	0.47	168.567	0.9729	6	1.75118	126.3966	2.45924	0.27144	2.1878	75.924	0.9873	-0.006	6	0.6862	0.6075	1.9227	95.36476
40.5	161.2	1.66	-11.11	0.47	161.064	1.0307	6	1.78278	126.3742	2.46556	0.27456	2.191	72.386	1.0467	-0.007	6	0.6997	0.6009	1.958	90.06808
40.6	155.2	1.66	-11.32	0.48	155.061	1.0705	6	1.8061	126.2816	2.47187	0.27768	2.1942	69.542	1.0879	-0.007	6	0.71	0.5958	1.9844	85.92429
40.7	147.8	1.62	-11.43	0.49	147.66	1.0971	6	1.82882	125.9839	2.47817	0.2808	2.1974	66.071	1.1158	-0.008	6	0.7202	0.5908	2.011	81.05802
40.8	138.5	1.55	-11.61	0.47	138.358	1.1203	6	1.85559	125.5019	2.48445	0.28392	2.2005	61.746	1.1408	-0.008	6	0.7325	0.5849	2.0428	75.10513
40.9	122.2	1.52	-11.76	0.49	122.056	1.2453	6	1.92675	125.0532	2.4907	0.28704	2.2037	54.258	1.2713	-0.009	5	0.7634	0.5712	2.1236	64.54167
41	97.6	1.63	-12.03	0.49	97.4528	1.6726	5	2.08582	125.0154	2.49695	0.29016	2.2068	43.029	1.7166	-0.012	5	0.8309	0.5429	2.3006	48.72327
41.1	68.9	1.81	-12.17	0.48	68.751	2.6327	5	2.33182	124.9309	2.5032	0.29328	2.2099	29.978	2.7322	-0.018	4	0.9364	0.5018	2.5761	31.41445
41.2	44.8	1.69	-12.26	0.47	44.6499	3.785	4	2.57604	123.3762	2.50937	0.2964	2.213	19.043	4.0104	-0.028	3	1	0.4781	2.8498	19.04256
41.3	31.2	1.33	-12.24	0.47	31.0502	4.2834	4	2.72745	120.7374	2.5154	0.29952	2.2159	12.877	4.661	-0.041	3	1	0.4775	3.0227	12.87737
41.4	24.1	1.05	-12.21	0.48	23.9506	4.384	3	2.81793	118.3746	2.52132	0.30264	2.2187	9.6585	4.8999	-0.055	3	1	0.4769	3.1344	9.65853
41.5	20.8	0.82	-12.21	0.49	20.6506	3.9708	3	2.83883	116.204	2.52713	0.30576	2.2214	8.1587	4.5245	-0.065	3	1	0.4763	3.1722	8.15865
41.6	19.6	0.65	-11.92	0.49	19.4541	3.3412	4	2.81167	114.3584	2.53285	0.30888	2.224	7.6086	3.8413	-0.069	3	1	0.4758	3.1556	7.60857
41.7	19.4	0.64	-11.2	0.49	19.2629	3.3225	4	2.81353	114.2209	2.53856	0.312	2.2266	7.5113	3.8268	-0.067	3	1	0.4752	3.1592	7.51129
41.8	20.4	0.71	-10.97	0.49	20.2657	3.5035	3	2.81065	115.1041	2.54432	0.31512	2.2292	7.9497	4.0065	-0.062	3	1	0.4747	3.1505	7.94968
41.9	22.4	0.73	-10.7	0.49	22.269	3.2781	4	2.76066	115.5373	2.55009	0.31824	2.2319	8.8352	3.702	-0.055	3	1	0.4741	3.0932	8.83522
42	22.5	0.82	-10.56	0.49	22.3708	3.6655	4	2.78989	116.3991	2.55591	0.32136	2.2346	8.8675	4.1383	-0.055	3	1	0.4735	3.1202	8.86746
42.1	21.5	0.86	-10.61	0.49	21.3701	4.0243	3	2.83117	116.636	2.56175	0.32448	2.2373	8.4069	4.5724	-0.058	3	1	0.473	3.1645	8.40686
42.2	24.1	0.76	-10.52	0.49	23.9712	3.1705	4	2.72669	116.0116	2.56755	0.3276	2.24	9.5554	3.5508	-0.051	3	1	0.4724	3.055	9.55544
42.3	50.1	0.74	-10.47	0.49	49.9719	1.4808	5	2.27122	117.6082	2.57343	0.33072	2.2427	21.134	1.5612	-0.023	4	0.9279	0.498	2.5493	22.31004

42.4	73.1	0.92	-10.47	0.49	72.9719	1.2608	5	2.09892	120.1247	2.57943	0.33384	2.2456	31.347	1.307	-0.015	5	0.8489	0.5279	2.3429	35.12188
42.5	78.2	1.21	-10.44	0.49	78.0722	1.5499	5	2.13434	122.2944	2.58555	0.33696	2.2486	33.571	1.6029	-0.014	5	0.8608	0.5226	2.3737	37.28574
42.6	74.9	1.51	-10.34	0.49	74.7734	2.0194	5	2.22559	123.8097	2.59174	0.34008	2.2517	32.057	2.0919	-0.015	5	0.8984	0.5074	2.47	34.61438
42.7	78.6	1.71	-10.32	0.49	78.4737	2.1791	5	2.23329	124.8376	2.59798	0.3432	2.2548	33.651	2.2537	-0.014	5	0.9002	0.5061	2.4744	36.29129
42.8	88.6	1.83	-10.59	0.49	88.4704	2.0685	5	2.1803	125.6264	2.60426	0.34632	2.2579	38.028	2.1312	-0.013	5	0.8757	0.5149	2.4118	41.78532
42.9	92.6	1.93	-11.09	0.49	92.4643	2.0873	5	2.16952	126.1233	2.61057	0.34944	2.2611	39.738	2.1479	-0.013	5	0.8706	0.5163	2.3981	43.84091
43	89	2.01	-11.29	0.51	88.8618	2.2619	5	2.20648	126.3236	2.61688	0.35256	2.2643	38.089	2.3306	-0.014	5	0.8873	0.5091	2.4392	41.49888
43.1	95.7	2.14	-11.3	0.51	95.5617	2.2394	5	2.18134	126.9594	2.62323	0.35568	2.2676	40.986	2.3026	-0.013	5	0.8749	0.5133	2.4086	45.08663
43.2	145.2	2.32	-11.23	0.53	145.063	1.5993	6	1.95049	128.5684	2.62966	0.3588	2.2709	62.722	1.6288	-0.008	5	0.775	0.5533	2.1456	74.48279
43.3	165.7	2.46	-11.22	0.53	165.563	1.4858	6	1.88803	129.3195	2.63613	0.36192	2.2742	71.641	1.5099	-0.007	5	0.7478	0.5643	2.0739	86.88855
43.4	164.3	2.45	-11.16	0.55	164.163	1.4924	6	1.89194	129.269	2.64259	0.36504	2.2776	70.919	1.5168	-0.007	5	0.7499	0.5628	2.0789	85.90878
43.5	159.7	2.29	-11.15	0.55	159.564	1.4352	6	1.88788	128.7055	2.64903	0.36816	2.2809	68.796	1.4594	-0.007	5	0.7494	0.5624	2.0772	83.39823
43.6	158.4	2.29	-11.09	0.56	158.264	1.447	6	1.8929	128.6856	2.65546	0.37128	2.2842	68.125	1.4716	-0.008	5	0.7519	0.5607	2.0833	82.45696
43.7	158.9	2.27	-11.08	0.57	158.764	1.4298	6	1.88818	128.6291	2.66189	0.3744	2.2875	68.242	1.4542	-0.008	5	0.7503	0.5608	2.0788	82.728
43.8	158.4	2.28	-11.08	0.57	158.264	1.4406	6	1.89151	128.6536	2.66832	0.37752	2.2908	67.922	1.4653	-0.008	5	0.752	0.5594	2.0828	82.26236
43.9	155.7	2.25	-11.04	0.58	155.565	1.4463	6	1.89788	128.5147	2.67475	0.38064	2.2941	66.645	1.4717	-0.008	5	0.7553	0.5574	2.0909	80.54183
44	151	2.2	-11	0.58	150.865	1.4583	6	1.90963	128.2755	2.68116	0.38376	2.2974	64.501	1.4846	-0.008	5	0.7609	0.5544	2.1054	77.63605
44.1	145.9	2.12	-11	0.58	145.765	1.4544	6	1.91912	127.9205	2.68756	0.38688	2.3007	62.189	1.4817	-0.008	5	0.7658	0.5517	2.1179	74.59419
44.2	142.3	2.05	-11	0.59	142.165	1.442	6	1.924	127.6139	2.69394	0.39	2.3039	60.536	1.4698	-0.008	5	0.7687	0.5498	2.1251	72.47181
44.3	142	1.84	-11.02	0.59	141.865	1.297	6	1.89195	126.8179	2.70028	0.39312	2.3072	60.319	1.3222	-0.009	5	0.7568	0.5544	2.0934	72.90916
44.4	144.7	1.72	-11.07	0.61	144.565	1.1898	6	1.85985	126.3704	2.7066	0.39624	2.3104	61.401	1.2125	-0.008	5	0.7443	0.5592	2.0601	74.97134
44.5	148.4	1.79	-11	0.59	148.265	1.2073	6	1.85643	126.724	2.71294	0.39936	2.3136	62.912	1.2298	-0.008	5	0.7426	0.5594	2.0553	76.94534
44.6	150.3	1.9	-11	0.59	150.165	1.2653	6	1.86687	127.1914	2.7193	0.40248	2.3168	63.642	1.2886	-0.008	5	0.7466	0.557	2.0654	77.62269
44.7	146.3	2.23	-10.34	0.6	146.173	1.5256	6	1.9333	128.2975	2.72571	0.4056	2.3201	61.828	1.5546	-0.008	5	0.7732	0.545	2.1348	73.8795
44.8	136.9	2.65	-10.4	0.59	136.773	1.9375	5	2.02914	129.398	2.73218	0.40872	2.3235	57.69	1.977	-0.009	5	0.8122	0.5279	2.2368	66.87463
44.9	115.4	2.42	-10.4	0.6	115.273	2.0994	5	2.10499	128.3165	2.7386	0.41184	2.3268	48.365	2.1505	-0.01	5	0.8465	0.5132	2.3267	54.58194
45	85.5	2.6	-10.4	0.59	85.3727	3.0455	5	2.31216	128.1091	2.745	0.41496	2.33	35.462	3.1466	-0.014	4	0.9361	0.4776	2.5602	37.29688
45.1	64.4	2.29	-10.37	0.59	64.2731	3.5629	4	2.44614	126.4878	2.75133	0.41808	2.3333	26.367	3.7223	-0.019	4	0.9971	0.4546	2.7205	26.42913
45.2	63.7	1.89	-8.81	0.59	63.5922	2.9721	5	2.39298	125.0571	2.75758	0.4212	2.3364	26.038	3.1068	-0.017	4	0.9773	0.4611	2.6684	26.51078
45.3	86	1.71	-5.81	0.59	85.9289	1.99	5	2.17756	125.059	2.76383	0.42432	2.3395	35.548	2.0562	-0.01	5	0.8848	0.4956	2.4254	38.95216
45.4	109.2	1.71	-6.96	0.59	109.115	1.5672	5	2.03085	125.6416	2.77011	0.42744	2.3427	45.395	1.608	-0.009	5	0.8214	0.5206	2.2587	52.31748
45.5	128.7	1.68	-8.52	0.61	128.596	1.3064	6	1.92463	125.9128	2.77641	0.43056	2.3459	53.635	1.3353	-0.008	5	0.7761	0.5391	2.1393	64.09887
45.6	137.4	1.54	-9.26	0.61	137.287	1.1217	6	1.85844	125.4356	2.78268	0.43368	2.349	57.26	1.145	-0.008	5	0.7492	0.5502	2.0681	69.93981
45.7	136	1.62	-9.72	0.61	135.881	1.1922	6	1.87986	125.7811	2.78897	0.4368	2.3522	56.583	1.2172	-0.009	5	0.758	0.5458	2.0909	68.64901
45.8	125.5	1.81	-9.85	0.61	125.379	1.4436	6	1.96279	126.3964	2.79529	0.43992	2.3554	52.045	1.4765	-0.009	5	0.7925	0.5304	2.1812	61.44374
45.9	114.3	2.03	-10.1	0.61	114.176	1.778	5	2.0556	127.0074	2.80164	0.44304	2.3586	47.221	1.8227	-0.011	5	0.8313	0.5136	2.2826	54.05944
46	100.6	2.1	-10.43	0.61	100.472	2.0901	5	2.14468	126.9436	2.80799	0.44616	2.3618	41.351	2.1502	-0.012	5	0.8697	0.4974	2.3831	45.91189
46.1	88	2.1	-10.67	0.61	87.8694	2.3899	5	2.22699	126.6167	2.81432	0.44928	2.365	35.964	2.469	-0.014	4	0.9068	0.4822	2.478	38.76472
46.2	77.6	2.01	-10.95	0.62	77.466	2.5947	5	2.29077	125.9889	2.82062	0.4524	2.3682	31.52	2.6927	-0.017	4	0.9355	0.4706	2.5536	33.20207
46.3	69.7	1.81	-11.3	0.64	69.5617	2.602	5	2.32462	124.9595	2.82687	0.45552	2.3714	28.142	2.7122	-0.019	4	0.9523	0.4637	2.5979	29.24593
46.4	64.4	1.61	-11.57	0.64	64.2584	2.5055	5	2.33783	123.9093	2.83306	0.45864	2.3744	25.87	2.6211	-0.021	4	0.9605	0.4601	2.6191	26.70929
46.5	62.6	1.44	-11.68	0.63	62.457	2.3056	5	2.32199	123.0234	2.83921	0.46176	2.3775	25.076	2.4154	-0.022	4	0.9558	0.4613	2.6064	25.98906
46.6	66.5	1.31	-11.69	0.65	66.3569	1.9742	5	2.25702	122.4789	2.84534	0.46488	2.3805	26.68	2.0626	-0.021	4	0.9294	0.4707	2.5359	28.25279
46.7	69.3	1.21	-11.75	0.65	69.1562	1.7497	5	2.20868	121.9986	2.85144	0.468	2.3834	27.819	1.8249	-0.02	5	0.9099	0.4776	2.4839	29.9298
46.8	71.3	1.18	-11.82	0.65	71.1553	1.6583	5	2.18401	121.8844	2.85753	0.47112	2.3864	28.619	1.7277	-0.019	5	0.8999	0.481	2.457	31.04599
46.9	73.3	1.28	-11.83	0.65	73.1552	1.7497	5	2.19046	122.5472	2.86366	0.47424	2.3894	29.418	1.821	-0.019	5	0.9018	0.4797	2.4615	31.86837
47	73.4	1.5	-11.83	0.65	73.2552	2.0476	5	2.23621	123.7111	2.86984	0.47736	2.3925	29.419	2.1311	-0.019	4	0.9194	0.4723	2.508	31.41796
47.1	64.5	1.87	-11.83	0.65	64.3552	2.9058	5	2.38239	125.0084	2.87609	0.48048	2.3956	25.663	3.0417	-0.022	4	0.9799	0.449	2.6679	26.0889
47.2	49.8	2	-11.83	0.65	49.6552	4.0278	4	2.56236	124.8677	2.88234	0.4836	2.3987	19.499	4.276	-0.029	3	1	0.4411	2.8598	19.49895
47.3	37.4	1.78	-11.83	0.64	37.2552	4.7779	4	2.70302	123.3142	2.8885	0.48672	2.4018	14.309	5.1794	-0.039	3	1	0.4406	3.0163	14.30883
47.4	29.6	1.41	-11.83	0.63	29.4552	4.7869	3	2.77711	121.0362	2.89455	0.48984	2.4047	11.045	5.3086	-0.051	3	1	0.44	3.1101	11.04524
47.5	22.4	1.17	-11.82	0.63	22.2553	5.2572	3	2.89423	118.9873	2.9005	0.49296	2.4075	8.0392	6.045	-0.069	3	1	0.4395	3.2533	8.03924
47.6	18.4	0.97	-11.76	0.65	18.2561	5.3133	3	2.96164	117.1326	2.90636	0.49608	2.4103	6.3684	6.3193	-0.087	3	1	0.439	3.3452	6.36843
47.7	16.9	0.83	-11.61	0.63	16.7579	4.9529	3	2.97002	115.7832	2.91215	0.4992	2.413	5.7381	5.9946	-0.096	3	1	0.4385	3.3678	5.7381
47.8	18	0.72	-9	0.65	17.8898	4.0246	3	2.89065	114.9023	2.9179	0.50232	2.4156	6.1981	4.809	-0.077	3	1	0.438	3.2845	6.19809
47.9	18.6	0.59	-8.77	0.67	18.4927	3.1905	4	2.81666	113.5261	2.92357	0.50544	2.4181	6.4385	3.7896	-0.073	3	1	0.4376	3.212	6.43848
48	20.7	0.55	-8.44	0.67	20.5967	2.6703	4	2.73254	113.2753	2.92924	0.50856	2.4207	7.2986	3.1131	-0.063	3	1	0.4371	3.1193	7.29857
48.1	20	0.63	-8.06	0.67	19.9014	3.1656	4	2.78942	114.1852	2.93494	0.51168	2.4233	7.0015	3.7132	-0.064	3	1	0.4367	3.1769	7.00147
48.2	20	0.77	-7.81	0.65	19.9044	3.8685	3	2.8439	115.6539	2.94073	0.5148	2.4259	6.9927	4.5391	-0.064	3	1	0.4362	3.2273	6.99266
48.3	33.8	0.8	-7.4	0.66	33.7094	2.3732	4	2.53245	117.2185	2.94659	0.51792	2.4287	12.667	2.6005	-0.034	3	1	0.4357	2.8771	12.66655
48.4	73.5	1.01	-6.79	0.67	73.4169	1.3757	5	2.12094	120.8225	2.95263	0.52104	2.4316	28.979	1.4334	-0.014	5	0.8788	0.4813	2.3984	32.05252
48.5	96.8	1.38	-6.72	0.67	96.7178	1.4268	5	2.04109	123.7786	2.95882	0.52416	2.4347	38.51	1.4719	-0.011	5	0.8392	0.4969	2.2937	44.03386
48.6	102.6	1.66	-7.03	0.67	102.514	1.6193	5	2.06021	125.2723	2.96508	0.52728	2.4378	40.836	1.6675	-0.01	5	0.8449	0.494	2.3086	46.47757
48.7	102.2	1.63	-7.32	0.67	102.11	1.5963	5	2.05715	125.1292	2.97134	0.5304	2.4409	40.615	1.6442	-0.011	5	0.8442	0.4938	2.3063	46.26335
48.8	101.9	1.45	-7.75	0.67	101.805	1.4243	6	2.02416	124.2657	2.97755	0.53352	2.444	40.436	1.4672	-0.011	5	0.832	0.4983	2.2738	46.54271
48.9	101.2	1.43	-8.77	0.67	101.093	1.4145	6	2.02438	124.147	2.98376	0.53664	2.4471	40.092	1.4576	-0.012	5	0.8327	0.4975	2.2751	46.13058
49	99.9	1.58	-9.53	0.69	99.7834	1.5834	5	2.06196	124.845	2.99	0.53976	2.4502	39.504	1.6323	-0.013	5	0.8478	0.4907	2.3147	44.88742
49.1	91.9	1.72	-9.91	0.69	91.7787	1.8741	5	2.13888	125.2623	2.99626	0.54288	2.4534	36.188	1.9373	-0.014	5	0.8805	0.4769	2.4001	40.01382
49.2	83.5	1.79	-10.22	0.67	83.3749	2.1469	5	2.20998	125.32	3.00253	0.546	2.4565	32.718	2.2271	-0.016	5	0.9123	0.4637	2.4812	35.22481
49.3	77	1.83	-10.48	0.68	76.8717	2.3806	5	2.26661	125.2836	3.00879	0.54912	2.4597	30.03	2.4776	-0.018	4	0.937	0.4537	2.5463	31.6679
49.4	67.2	1.88	-10.8	0.69	67.0678	2.8031	5	2.35867	125.1481	3.01505	0.55224	2.4628	26.008	2.9351	-0.021	4	0.9773	0.438	2.6526	26.51226

49.5	58.6	1.79	-10.99	0.67	58.4655	3.0616	5	2.42796	124.4543	3.02127	0.55536	2.4659	22.484	3.2285	-0.024	4	1	0.4291	2.7342	22.48424
49.6	51.5	1.6	-11.14	0.67	51.3637	3.115	4	2.47349	123.3174	3.02744	0.55848	2.469	19.578	3.3102	-0.028	4	1	0.4286	2.7878	19.57755
49.7	48.5	1.42	-11.15	0.68	48.3635	2.9361	4	2.47482	122.2974	3.03356	0.5616	2.472	18.338	3.1326	-0.03	4	1	0.428	2.7953	18.3377
49.8	46.7	1.22	-11.21	0.67	46.5628	2.6201	5	2.4536	121.0941	3.03961	0.56472	2.4749	17.586	2.8031	-0.032	4	1	0.4275	2.7805	17.58591
49.9	39.8	0	-11.28	0.67	39.6619	0	0	0	120.9	3.04565	0.56784	2.4778	14.778	0	-0.038	0	1	0.427	0	0
50	30.6	0	-11.3	0.65	30.4617	0	0	0	120.9	3.0517	0.57096	2.4807	11.049	0	-0.051	0	1	0.4265	0	0

	CPT-5	In situ data									Basic output data									
Depth (ft)	qc (tsf)	fs (tsf)	u (psi)	Other	qt (tsf)	Rf(%)	SBT	Ic SBT	ã (pcf)	ó,v (tsf)	u0 (tsf)	ó',vo (tsf)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.1	11.1	0	0	0.43	11.1	0	0	0	120.9	0.00605	0	0.0061	1835.2	0	0	0	1	175.04	0	0
0.2	22.2	0	0	0.86	22.2	0	0	0	120.9	0.01209	0	0.0121	1835.2	0	0	0	1	87.519	0	0
0.3	40.2	0.38	0.07	-0.46	40.2009	0.9453	5	2.23664	112.2009	0.0177	0	0.0177	2270.2	0.9457	0.0001	6	0.4651	6.7019	1.6008	254.5129
0.4	79.2	0.45	0	-2.11	79.2	0.5682	6	1.86982	115.0919	0.02345	0	0.0235	3375.7	0.5684	0	6	0.3788	4.2332	1.3745	316.7631
0.5	134.3	0.55	-0.03	-1.4	134.3	0.4095	6	1.59997	117.8483	0.02935	0	0.0294	4575.3	0.4096	-2E-05	7	0.3149	3.0919	1.2086	392.3453
0.6	164.6	0.51	-0.02	-0.81	164.6	0.3098	6	1.46262	117.792	0.03524	0	0.0352	4670.3	0.3099	-1E-05	7	0.2811	2.6018	1.1183	404.6507
0.7	186.4	0.58	0	-1.62	186.4	0.3112	6	1.41659	119.0364	0.04119	0	0.0412	4524.5	0.3112	0	7	0.2736	2.4308	1.1007	428.1149
0.8	220.1	0.72	0.01	-1.9	220.1	0.3271	6	1.36627	121.0239	0.04724	0	0.0472	4658.2	0.3272	0	7	0.2621	2.2586	1.0849	469.7098
0.9	245.1	0.85	0.08	-2.26	245.101	0.3468	6	1.34132	122.5008	0.05336	0	0.0534	4591.9	0.3469	2E-05	7	0.2614	2.1832	1.0793	505.6152
1	256.3	1.05	0.08	-2.64	256.301	0.4097	6	1.36816	124.1559	0.05957	0	0.0596	4301.3	0.4098	2E-05	7	0.2761	2.2128	1.1145	535.8752
1.1	243.9	1.23	0.06	-2.35	243.901	0.5043	6	1.44136	125.1927	0.06583	0	0.0658	3703.9	0.5044	2E-05	7	0.3033	2.3216	1.1839	535.0077
1.2	219	1.33	-0.02	-2.37	219	0.6073	6	1.5293	125.5019	0.07211	0	0.0721	3036.1	0.6075	-1E-05	7	0.3361	2.4662	1.2602	510.2698
1.3	199.1	1.32	-0.08	-2.43	199.099	0.663	6	1.58552	125.2144	0.07837	0	0.0784	2539.6	0.6633	-3E-05	7	0.3552	2.5203	1.3099	474.0493
1.4	180.4	1.21	-0.08	-2.44	180.399	0.6707	6	1.62131	124.3371	0.08458	0	0.0846	2131.8	0.6711	-3E-05	6	0.3669	2.5268	1.3396	430.5966
1.5	167.2	1.07	-0.08	-2.39	167.199	0.64	6	1.63376	123.2521	0.09075	0	0.0908	1841.5	0.6403	-3E-05	6	0.3683	2.4711	1.3511	390.2637
1.6	156.3	0.92	-0.08	-2.41	156.299	0.5886	6	1.6344	121.9825	0.09685	0	0.0969	1612.9	0.589	-4E-05	6	0.3683	2.4123	1.3505	356.1056
1.7	146.6	0.79	-0.07	-2.43	146.599	0.5389	6	1.63401	120.7116	0.10288	0	0.1029	1423.9	0.5393	-3E-05	6	0.368	2.3574	1.3492	326.389
1.8	137.3	0.74	0	-2.43	137.3	0.539	6	1.65727	120.0733	0.10889	0	0.1089	1260	0.5394	0	6	0.3763	2.3529	1.3702	305.0668
1.9	131	0.71	0	-2.45	131	0.542	6	1.67539	119.656	0.11487	0	0.1149	1139.4	0.5425	0	6	0.3834	2.3428	1.3881	289.7968
2	126.4	0.7	0	-2.47	126.4	0.5538	6	1.69348	119.465	0.12084	0	0.1208	1045	0.5543	0	6	0.3909	2.3355	1.4068	278.7222
2.1	120.5	0.66	0.07	-2.49	120.501	0.5477	6	1.7079	118.9179	0.12679	0	0.1268	949.41	0.5483	4E-05	6	0.3966	2.3199	1.421	263.9196
2.2	113.8	0.61	0	-2.51	113.8	0.536	6	1.72334	118.2019	0.1327	0	0.1327	856.59	0.5367	0	6	0.4024	2.3057	1.4352	247.6851
2.3	110.3	0.48	0	-2.51	110.3	0.4352	6	1.68685	116.372	0.13852	0	0.1385	795.3	0.4357	0	6	0.3899	2.2095	1.4023	230.036
2.4	105.7	0.44	0	-2.51	105.7	0.4163	6	1.69316	115.6315	0.1443	0	0.1443	731.51	0.4168	0	6	0.3927	2.1869	1.409	218.1633
2.5	101.2	0.38	-0.07	-2.51	101.199	0.3755	6	1.68807	114.4526	0.15002	0	0.15	673.57	0.3761	-5E-05	6	0.3914	2.1479	1.4048	205.1275
2.6	98.7	0.49	-0.05	-2.53	98.6994	0.4965	6	1.75769	116.2519	0.15583	0	0.1558	632.37	0.4972	-4E-05	6	0.418	2.227	1.4731	207.4005
2.7	99.8	0.57	-0.15	-2.56	99.7982	0.5712	6	1.78614	117.3854	0.1617	0	0.1617	616.17	0.5721	-1E-04	6	0.4327	2.2541	1.5041	212.2578
2.8	103	0.57	-0.1	-2.56	102.999	0.5534	6	1.76717	117.4624	0.16758	0	0.1676	613.64	0.5543	-7E-05	6	0.4284	2.2023	1.4924	214.025
2.9	102.1	0.55	-0.12	-2.56	102.099	0.5387	6	1.76403	117.1796	0.17343	0	0.1734	587.69	0.5396	-8E-05	6	0.4287	2.1712	1.4926	209.1449
3	94.3	0.46	-0.21	-2.56	94.2974	0.4878	6	1.77071	115.6783	0.17922	0	0.1792	525.16	0.4888	-2E-04	6	0.4306	2.1481	1.4966	191.0695
3.1	85.8	0.41	-0.23	-2.56	85.7972	0.4779	6	1.80157	114.6059	0.18495	0	0.185	462.9	0.4789	-2E-04	6	0.4408	2.1572	1.5227	174.5403
3.2	81.5	0.37	-0.28	-2.58	81.4966	0.454	6	1.81007	113.7294	0.19064	0	0.1906	426.5	0.4551	-3E-04	6	0.4441	2.1407	1.5307	164.4935
3.3	79.6	0.38	-0.3	-2.58	79.5963	0.4774	6	1.82967	113.867	0.19633	0	0.1963	404.42	0.4786	-3E-04	6	0.4521	2.1417	1.5516	160.7108
3.4	78.7	0.4	-0.3	-2.58	78.6963	0.5083	6	1.84746	114.2145	0.20204	0	0.202	388.51	0.5096	-3E-04	6	0.4599	2.1413	1.5717	158.8478
3.5	74.3	0.39	-0.3	-2.6	74.2963	0.5249	6	1.8761	113.889	0.20773	0	0.2077	356.65	0.5264	-3E-04	6	0.4703	2.1504	1.5988	150.5721
3.6	66.9	0.37	-0.3	-2.6	66.8963	0.5531	6	1.92691	113.2479	0.2134	0	0.2134	312.48	0.5549	-3E-04	6	0.4877	2.1832	1.6439	137.5867
3.7	62	0.31	-0.37	-2.6	61.9955	0.5	6	1.93441	111.7677	0.21898	0	0.219	282.1	0.5018	-4E-04	6	0.49	2.1639	1.6493	126.3362
3.8	60.2	0.28	-0.31	-2.62	60.1962	0.4652	6	1.93104	110.9511	0.22453	0	0.2245	267.1	0.4669	-4E-04	6	0.4896	2.1362	1.6475	121.0742
3.9	58.8	0.28	-0.36	-2.62	58.7956	0.4762	6	1.94482	110.8937	0.23008	0	0.2301	254.55	0.4781	-4E-04	6	0.4956	2.1302	1.6628	117.9022
4	56.3	0.28	-0.31	-2.62	56.2962	0.4974	6	1.97028	110.7878	0.23562	0	0.2356	237.93	0.4995	-4E-04	6	0.5054	2.1363	1.688	113.1831
4.1	54.5	0.28	-0.37	-2.62	54.4955	0.5138	6	1.98936	110.7085	0.24115	0	0.2412	224.98	0.5161	-5E-04	6	0.5131	2.1356	1.7078	109.5005
4.2	51.3	0.27	-0.3	-2.62	51.2963	0.5264	6	2.01748	110.2948	0.24667	0	0.2467	206.96	0.5289	-4E-04	6	0.5234	2.143	1.7345	103.3924
4.3	47.2	0.25	-0.38	-2.64	47.1954	0.5297	6	2.05083	109.5285	0.25214	0	0.2521	186.18	0.5326	-6E-04	6	0.5352	2.1545	1.7648	95.58661
4.4	44.8	0.24	-0.38	-2.64	44.7954	0.5358	6	2.07324	109.1025	0.2576	0	0.2576	172.9	0.5389	-6E-04	6	0.5437	2.1558	1.7866	90.7411
4.5	43.3	0.24	-0.38	-2.66	43.2954	0.5543	5	2.09317	109.0194	0.26305	0	0.2631	163.59	0.5577	-6E-04	6	0.5518	2.1554	1.8073	87.6595
4.6	41.6	0.24	-0.38	-2.62	41.5954	0.577	5	2.11663	108.9217	0.26849	0	0.2685	153.92	0.5807	-7E-04	6	0.561	2.1584	1.831	84.30017
4.7	39	0.23	-0.39	-2.64	38.9952	0.5898	5	2.1459	108.4529	0.27392	0	0.2739	141.36	0.594	-7E-04	6	0.5718	2.1658	1.8589	79.25546
4.8	37.2	0.23	-0.43	-2.65	37.1947	0.6184	5	2.17361	108.3376	0.27933	0	0.2793	132.15	0.6231	-8E-04	6	0.5825	2.1723	1.8864	75.78843
4.9	37	0.22	-0.36	-2.66	36.9956	0.5947	5	2.16784	107.9992	0.28473	0	0.2847	128.93	0.5993	-7E-04	6	0.5818	2.1462	1.8839	74.46156
5	37.5	0.23	-0.3	-2.66	37.4963	0.6134	5	2.16887	108.3573	0.29015	0	0.2902	128.23	0.6182	-6E-04	6	0.584	2.1289	1.8891	74.8565
5.1	38.7	0.22	-0.32	-2.66	38.6961	0.5685	5	2.14156	108.1088	0.29556	0	0.2956	129.93	0.5729	-6E-04	6	0.5761	2.0849	1.8677	75.66347
5.2	41.3	0.17	-0.47	-2.69	41.2943	0.4117	6	2.05567	106.3808	0.30088	0	0.3009	136.25	0.4147	-8E-04	6	0.5472	1.9899	1.791	77.09462
5.3	44.4	0.17	-0.53	-2.7	44.3935	0.3829	6	2.01425	106.5573	0.3062	0	0.3062	143.98	0.3856	-9E-04	6	0.5348	1.941	1.7579	80.87304
5.4	46.2	0.16	-0.54	-2.7	46.1934	0.3464	6	1.98132	106.2107	0.31152	0	0.3115	147.29	0.3487	-9E-04	6	0.5249	1.8999	1.7311	82.38496
5.5	43.8	0.14	-0.6	-2.7	43.7927	0.3197	6	1.9898	105.1034	0.31677	0	0.3168	137.25	0.322	-1E-03	6	0.5282	1.8909	1.7393	77.69444
5.6	40.6	0.12	-0.6	-2.71	40.5927	0.2956	6	2.00859	103.7904	0.32196	0	0.322	125.08	0.298	-0.001	6	0.5349	1.8897	1.7562	71.92093
5.7	40	0.13	-0.64	-2.72	39.9922	0.3251	6	2.02917	104.3398	0.32718	0	0.3272	121.23	0.3277	-0.001	6	0.5435	1.8926	1.7783	70.94689
5.8	38.2	0.16	-0.6	-2.72	38.1927	0.4189	5	2.08975	105.7468	0.33246	0	0.3325	113.88	0.4226	-0.001	6	0.5664	1.9264	1.8379	68.92964
5.9	36.4	0.18	-0.43	-2.72	36.3947	0.4946	5	2.13874	106.491	0.33779	0	0.3378	106.74	0.4992	-9E-04	6	0.5849	1.9501	1.8861	66.45316
6	34.9	0.19	-0.38	-2.73	34.8954	0.5445	5	2.17331	106.784	0.34313	0	0.3431	100.7	0.5499	-8E-04	6	0.5983	1.9617	1.9207	64.05717
6.1	32.9	0.18	-0.38	-2.74	32.8954	0.5472	5	2.1973	106.2444	0.34844	0	0.3484	93.407	0.5531	-8E-04	6	0.6075	1.9636	1.9441	60.39779
6.2	30.9	0.15	-0.46	-2.75	30.8944	0.4855	5	2.19996	104.7573	0.35368	0	0.3537	86.352	0.4912	-0.001	6	0.6086	1.9483	1.9465	56.23411
6.3	29.4	0.13	-0.71	-2.76	29.3913	0.4423	5	2.2035	103.5886	0.35886	0	0.3589	80.902	0.4478	-0.002	6	0.6103	1.9347	1.9504	53.08502
6.4	28	0.13	-0.83	-2.77	27.9898	0.4645	5	2.23138	103.4694	0.36403	0	0.364	75.889	0.4706	-0.002	6	0.6212	1.9402	1.9782	50.6558
6.5	26.7	0.15	-0.65	-2.77	26.692	0.562	5	2.2842	104.4007	0.36925	0	0.3693	71.287	0.5699	-0.002	6	0.6399	1.9615	2.0313	48.79554
6.6	25.7	0.15	-0.33	-2.76	25.696	0.5838	5	2.30618	104.3079	0.37447	0	0.3745	67.62	0.5924	-9E-04	6	0.6489	1.9622	2.0541	46.95732
6.7	25.7	0.15	-0.18	-2.77	25.6978	0.5837	5	2.30614	104.3081	0.37968	0	0.3797	66.682	0.5925	-5E-04	6	0.6504	1.9475	2.057	46.5995
6.8	26.7	0.16	-0.43	-2.78	26.6947	0.5994	5	2.29618	104.8732	0.38493	0	0.3849	68.35	0.6081	-0.001	6	0.6487	1.9271	2.0519	47.91629

6.9	27.9	0.15	-0.78	-2.79	27.8905	0.5378	5	2.25885	104.5078	0.39015	0	0.3902	70.486	0.5455	-0.002	6	0.6369	1.8878	2.0202	49.06328
7	29.2	0.15	-0.9	-2.8	29.189	0.5139	5	2.23263	104.6188	0.39538	0	0.3954	72.825	0.521	-0.002	6	0.6292	1.8577	1.9993	50.55285
7.1	30.4	0.14	-0.95	-2.8	30.3884	0.4607	5	2.19724	104.2122	0.40059	0	0.4006	74.859	0.4669	-0.002	6	0.6179	1.8224	1.9691	51.64877
7.2	30.8	0.15	-0.98	-2.81	30.788	0.4872	5	2.20195	104.7489	0.40583	0	0.4058	74.864	0.4937	-0.002	6	0.6212	1.8137	1.977	52.07649
7.3	30.6	0.16	-0.9	-2.81	30.589	0.5231	5	2.21739	105.2053	0.41109	0	0.4111	73.409	0.5302	-0.002	6	0.6283	1.8112	1.9946	51.65697
7.4	30.3	0.16	-0.57	-2.8	30.293	0.5282	5	2.22301	105.1816	0.41635	0	0.4164	71.759	0.5355	-0.001	6	0.6316	1.8023	2.0024	50.88954
7.5	30.8	0.16	-0.33	-2.81	30.796	0.5196	5	2.2135	105.2218	0.42161	0	0.4216	72.044	0.5268	-8E-04	6	0.6296	1.7848	1.9964	51.23441
7.6	31.2	0.16	-0.3	-2.83	31.1963	0.5129	5	2.20605	105.2533	0.42687	0	0.4269	72.081	0.52	-7E-04	6	0.6283	1.7688	1.9923	51.43647
7.7	31	0.15	-0.3	-2.84	30.9963	0.4839	5	2.19807	104.7653	0.43211	0	0.4321	70.732	0.4908	-7E-04	6	0.6264	1.7524	1.9868	50.6201
7.8	30.4	0.14	-0.3	-2.84	30.3963	0.4606	5	2.19709	104.2128	0.43732	0	0.4373	68.506	0.4673	-7E-04	6	0.627	1.7402	1.9876	49.27177
7.9	29.6	0.13	-0.3	-2.84	29.5963	0.4392	5	2.19954	103.6055	0.4425	0	0.4425	65.884	0.4459	-7E-04	6	0.6288	1.7301	1.9915	47.66766
8	29.3	0.13	-0.3	-2.84	29.2963	0.4437	5	2.20535	103.5807	0.44768	0	0.4477	64.44	0.4506	-8E-04	6	0.6321	1.7223	1.9994	46.95736
8.1	29.5	0.12	-0.3	-2.86	29.4963	0.4068	5	2.18806	103.0116	0.45283	0	0.4528	64.138	0.4132	-7E-04	6	0.6269	1.7024	1.9851	46.72785
8.2	29.9	0.12	-0.3	-2.88	29.8963	0.4014	5	2.18043	103.0445	0.45798	0	0.458	64.278	0.4076	-7E-04	6	0.6254	1.6883	1.9806	46.97146
8.3	29.9	0.09	-0.3	-2.88	29.8963	0.301	5	2.13637	100.9395	0.46303	0	0.463	63.567	0.3058	-7E-04	6	0.61	1.6555	1.9396	46.05064
8.4	29.7	0.09	-0.41	-2.89	29.695	0.3031	5	2.14011	100.923	0.46808	0	0.4681	62.44	0.3079	-0.001	6	0.6125	1.6479	1.9454	45.5189
8.5	29.3	0.08	-0.55	-2.9	29.2933	0.2731	5	2.13133	100.028	0.47308	0	0.4731	60.921	0.2776	-0.001	6	0.6101	1.6341	1.9386	44.50986
8.6	27.9	0.08	-0.49	-2.9	27.894	0.2868	5	2.15815	99.9086	0.47807	0	0.4781	57.347	0.2918	-0.001	6	0.6207	1.6374	1.9656	42.42636
8.7	26.5	0.08	-0.45	-2.9	26.4945	0.302	5	2.18644	99.78306	0.48306	0	0.4831	53.847	0.3076	-0.001	6	0.6319	1.6412	1.9941	40.34541
8.8	24.2	0.08	-0.45	-2.9	24.1945	0.3307	5	2.23656	99.56157	0.48804	0	0.488	48.575	0.3375	-0.001	6	0.6508	1.6546	2.0429	37.07131
8.9	21	0.08	-0.45	-2.9	20.9945	0.3811	5	2.31538	99.21556	0.493	0	0.493	41.585	0.3902	-0.002	5	0.68	1.6809	2.1187	32.56751
9	18.1	0.07	-0.45	-2.91	18.0945	0.3869	5	2.37828	97.87595	0.4979	0	0.4979	35.342	0.3978	-0.002	5	0.7032	1.6991	2.1789	28.25646
9.1	15.5	0.07	-0.38	-2.9	15.4954	0.4518	5	2.46483	97.49774	0.50277	0	0.5028	29.82	0.4669	-0.002	5	0.7355	1.7286	2.263	24.49291
9.2	13.9	0.06	-0.38	-2.91	13.8954	0.4318	5	2.50236	96.104	0.50758	0	0.5076	26.376	0.4482	-0.002	5	0.7499	1.7348	2.3001	21.94937
9.3	12.7	0.07	-0.38	-2.92	12.6954	0.5514	5	2.57696	97.01164	0.51243	0	0.5124	23.775	0.5746	-0.002	5	0.7787	1.7588	2.3749	20.25078
9.4	11.8	0.08	-0.38	-2.93	11.7954	0.6782	4	2.64111	97.80934	0.51732	0	0.5173	21.801	0.7093	-0.002	5	0.8038	1.7775	2.44	18.94584
9.5	11.4	0.09	-0.38	-2.93	11.3954	0.7898	4	2.68174	98.58702	0.52225	0	0.5223	20.82	0.8277	-0.003	5	0.8204	1.7847	2.4827	18.33981
9.6	12.3	0.1	-0.44	-2.95	12.2946	0.8134	4	2.65719	99.54319	0.52722	0	0.5272	22.32	0.8498	-0.003	5	0.8129	1.7617	2.4626	19.59256
9.7	15.1	0.12	-0.52	-2.99	15.0936	0.795	5	2.57253	101.3775	0.53229	0	0.5323	27.356	0.8241	-0.003	5	0.7837	1.7134	2.3853	23.57879
9.8	19.5	0.14	-0.46	-3.01	19.4944	0.7182	5	2.45328	103.1295	0.53745	0	0.5375	35.272	0.7385	-0.002	5	0.7421	1.6532	2.2756	29.61867
9.9	22.6	0.17	-0.53	-3.03	22.5935	0.7524	5	2.40503	104.9099	0.54269	0	0.5427	40.632	0.771	-0.002	5	0.7265	1.6243	2.234	33.85103
10	24.8	0.19	-0.79	-3.03	24.7903	0.7664	5	2.37295	105.9501	0.54799	0	0.548	44.239	0.7838	-0.002	5	0.7165	1.6023	2.2071	36.71121
10.1	26.5	0.21	-0.9	-3.05	26.489	0.7928	5	2.35446	106.844	0.55333	0	0.5533	46.872	0.8097	-0.003	5	0.7114	1.586	2.1929	38.87372
10.2	27.3	0.22	-0.97	-3.05	27.2881	0.8062	5	2.3466	107.2569	0.5587	0	0.5587	47.842	0.8231	-0.003	5	0.7099	1.5736	2.1883	39.75147
10.3	27.8	0.23	-1.05	-3.05	27.7872	0.8277	5	2.34523	107.6264	0.56408	0	0.5641	48.261	0.8449	-0.003	5	0.7107	1.5637	2.1897	40.23196
10.4	27.9	0.23	-0.98	-3.05	27.888	0.8247	5	2.34309	107.6352	0.56946	0	0.5695	47.973	0.8419	-0.003	5	0.7111	1.5536	2.1901	40.11108
10.5	28.4	0.22	-1.05	-3.09	28.3872	0.775	5	2.32334	107.3532	0.57483	0	0.5748	48.384	0.791	-0.003	5	0.705	1.5375	2.1732	40.41245
10.6	28.2	0.22	-0.98	-3.11	28.188	0.7805	5	2.32748	107.3361	0.58019	0	0.5802	47.584	0.7969	-0.003	5	0.7076	1.5299	2.1795	39.91672
10.7	27.3	0.23	-1.05	-3.11	27.2872	0.8429	5	2.35595	107.5821	0.58557	0	0.5856	45.599	0.8614	-0.003	5	0.7192	1.5304	2.2093	38.61989
10.8	25.8	0.23	-1.05	-3.15	25.7872	0.8919	5	2.38937	107.4442	0.59095	0	0.591	42.637	0.9128	-0.003	5	0.7325	1.5322	2.2435	36.48591
10.9	24.5	0.22	-0.98	-3.13	24.488	0.8984	5	2.41049	106.9929	0.5963	0	0.5963	40.067	0.9208	-0.003	5	0.7413	1.5298	2.2657	34.54186
11	24	0.21	-1.13	-3.15	23.9862	0.8755	5	2.41293	106.602	0.60163	0	0.6016	38.869	0.898	-0.003	5	0.7432	1.5214	2.2701	33.62267
11.1	23.6	0.21	-1.05	-3.15	23.5872	0.8903	5	2.42283	106.5611	0.60695	0	0.607	37.862	0.9138	-0.003	5	0.748	1.5155	2.2819	32.91273
11.2	24.4	0.21	-1.05	-3.15	24.3872	0.8611	5	2.40316	106.6424	0.61229	0	0.6123	38.83	0.8833	-0.003	5	0.7419	1.5006	2.2653	33.7167
11.3	26.4	0.18	-1.04	-3.17	26.3873	0.6822	5	2.32563	105.7067	0.61757	0	0.6176	41.728	0.6985	-0.003	5	0.7142	1.469	2.1921	35.77601
11.4	28.8	0.18	-0.98	-3.19	28.788	0.6253	5	2.27484	105.9191	0.62287	0	0.6229	45.219	0.6391	-0.003	5	0.6967	1.4466	2.1455	38.50515
11.5	31.6	0.21	-1.05	-3.19	31.5872	0.6648	5	2.25108	107.2734	0.62823	0	0.6282	49.28	0.6783	-0.002	5	0.6895	1.4326	2.1259	41.91463
11.6	35.3	0.24	-0.98	-3.21	35.288	0.6801	5	2.21322	108.5206	0.63366	0	0.6337	54.689	0.6926	-0.002	5	0.6771	1.4151	2.0926	46.34462
11.7	38.8	0.26	-0.98	-3.22	38.788	0.6703	5	2.17414	109.337	0.63912	0	0.6391	59.689	0.6815	-0.002	6	0.6641	1.3977	2.0578	50.39057
11.8	42.8	0.28	-0.96	-3.2	42.7883	0.6544	5	2.13178	110.1186	0.64463	0	0.6446	65.377	0.6644	-0.002	6	0.6499	1.3799	2.0197	54.96205
11.9	45.9	0.31	-0.9	-3.2	45.889	0.6755	5	2.11211	111.034	0.65018	0	0.6502	69.579	0.6853	-0.001	6	0.644	1.3684	2.0036	58.50311
12	48	0.33	-0.9	-3.22	47.989	0.6877	5	2.09915	111.6006	0.65576	0	0.6558	72.181	0.6972	-0.001	6	0.6404	1.3585	1.9936	60.77228
12.1	49.4	0.36	-0.94	-3.23	49.3885	0.7289	5	2.1013	112.3073	0.66138	0	0.6614	73.675	0.7388	-0.001	6	0.6425	1.3524	1.9982	62.28065
12.2	50.3	0.38	-0.93	-3.24	50.2886	0.7556	5	2.1027	112.747	0.66701	0	0.667	74.394	0.7658	-0.001	6	0.6441	1.3461	2.0018	63.12735
12.3	50.8	0.4	-0.9	-3.25	50.789	0.7876	5	2.1085	113.1465	0.67267	0	0.6727	74.503	0.7981	-0.001	6	0.6474	1.3408	2.0096	63.50437
12.4	50.8	0.42	-0.9	-3.25	50.789	0.827	5	2.11979	113.5035	0.67835	0	0.6784	73.872	0.8382	-0.001	6	0.6526	1.3366	2.0227	63.30067
12.5	50.1	0.42	-0.86	-3.26	50.0895	0.8385	5	2.12811	113.4696	0.68402	0	0.684	72.228	0.8501	-0.001	6	0.6567	1.3317	2.0326	62.18092
12.6	48.3	0.42	-0.88	-3.28	48.2892	0.8698	5	2.15006	113.3804	0.68969	0	0.6897	69.016	0.8824	-0.001	6	0.6657	1.3297	2.0556	59.81552
12.7	45.6	0.4	-0.9	-3.27	45.589	0.8774	5	2.17318	112.883	0.69533	0	0.6953	64.564	0.891	-0.001	5	0.6751	1.3277	2.0795	56.33125
12.8	43	0.4	-0.9	-3.27	42.989	0.9305	5	2.20839	112.7398	0.70097	0	0.701	60.328	0.9459	-0.002	5	0.6891	1.3281	2.1155	53.07802
12.9	40.6	0.39	-0.9	-3.27	40.589	0.9609	5	2.23693	112.4144	0.70659	0	0.7066	56.443	0.9779	-0.002	5	0.7006	1.3269	2.145	50.01544
13	37.6	0.36	-0.9	-3.28	37.589	0.9577	5	2.26436	111.6415	0.71217	0	0.7122	51.781	0.9762	-0.002	5	0.7116	1.3254	2.1732	46.19284
13.1	35.2	0.34	-0.96	-3.29	35.1883	0.9662	5	2.29073	111.0623	0.71773	0	0.7177	48.027	0.9864	-0.002	5	0.7223	1.3236	2.2005	43.11933
13.2	33.8	0.32	-1.04	-3.29	33.7873	0.9471	5	2.30123	110.5196	0.72325	0	0.7233	45.716	0.9678	-0.002	5	0.7271	1.3187	2.2125	41.20694
13.3	33.1	0.31	-1.05	-3.29	33.0872	0.9369	5	2.30657	110.2362	0.72876	0	0.7288	44.402	0.958	-0.002	5	0.7301	1.3129	2.2196	40.14981
13.4	33.1	0.3	-1.11	-3.29	33.0864	0.9067	5	2.29926	109.9963	0.73426	0	0.7343	44.061	0.9273	-0.002	5	0.7283	1.3049	2.2143	39.89664
13.5	32.6	0.3	-1.19	-3.3	32.5854	0.9207	5	2.30834	109.959	0.73976	0	0.7398	43.049	0.942	-0.003	5	0.7327	1.2998	2.2251	39.12091
13.6	31.9	0.3	-1.26	-3.31	31.8846	0.9409	5	2.3213	109.906	0.74526	0	0.7453	41.783	0.9634	-0.003	5	0.7386	1.2955	2.2398	38.1245
13.7	32.4	0.31	-1.28	-3.29	32.3843	0.9573	5	2.31937	110.1839	0.75077	0	0.7508	42.135	0.98	-0.003	5	0.7389	1.2886	2.24	38.52388
13.8	35.7	0.31	-1.35	-3.29	35.6835	0.8688	5	2.26156	110.4205	0.75629	0	0.7563	46.182	0.8876	-0.003	5	0.7182	1.2728	2.1851	42.01294
13.9	40.6	0.31	-1.28	-3.31	40.5843	0.7638	5	2.18501	110.7344	0.76182	0	0.7618	52.273	0.7785	-0.002	5	0.6906	1.2547	2.1119	47.22032

14	44.6	0.3	-1.28	-3.31	44.5843	0.6729	5	2.12214	110.7237	0.76736	0	0.7674	57.101	0.6847	-0.002	6	0.668	1.2394	2.052	51.32418
14.1	51.3	0.28	-1.35	-3.31	51.2835	0.546	6	2.02505	110.5603	0.77289	0	0.7729	65.353	0.5543	-0.002	6	0.6326	1.2198	1.9584	58.23086
14.2	55.6	0.25	-1.35	-3.31	55.5835	0.4498	6	1.95529	109.9275	0.77838	0	0.7784	70.409	0.4562	-0.002	6	0.6074	1.205	1.8914	62.41328
14.3	58.8	0.3	-1.42	-3.32	58.7826	0.5104	6	1.95896	111.398	0.78395	0	0.784	73.982	0.5173	-0.002	6	0.6099	1.2007	1.8973	65.81429
14.4	66.5	0.38	-1.34	-3.31	66.4836	0.5716	6	1.9364	113.4279	0.78963	0	0.7896	83.196	0.5784	-0.001	6	0.6027	1.1929	1.8778	74.06393
14.5	78.3	0.49	-1.32	-3.31	78.2838	0.6259	6	1.89633	115.6866	0.79541	0	0.7954	97.42	0.6324	-0.001	6	0.5891	1.1831	1.8413	86.63974
14.6	88.5	0.63	-1.46	-3.32	88.4821	0.712	6	1.88296	117.8242	0.8013	0	0.8013	109.42	0.7185	-0.001	6	0.5854	1.1767	1.8308	97.51042
14.7	95.7	0.77	-1.43	-3.33	95.6825	0.8047	6	1.88637	119.4833	0.80728	0	0.8073	117.53	0.8116	-0.001	6	0.5879	1.1724	1.8366	105.1239
14.8	100.3	0.84	-1.35	-3.34	100.283	0.8376	6	1.88056	120.2345	0.81329	0	0.8133	122.31	0.8445	-1E-03	6	0.5867	1.167	1.8327	109.7017
14.9	104	0.89	-1.26	-3.34	103.985	0.8559	6	1.87384	120.746	0.81932	0	0.8193	125.92	0.8627	-9E-04	6	0.5851	1.1614	1.8279	113.2387
15	106	0.94	-1.31	-3.36	105.984	0.8869	6	1.87691	121.1924	0.82538	0	0.8254	127.41	0.8939	-9E-04	6	0.5872	1.157	1.8325	114.989
15.1	106.1	0.97	-1.4	-3.35	106.083	0.9144	6	1.88486	121.4245	0.83146	0	0.8315	126.59	0.9216	-1E-03	6	0.591	1.1531	1.8419	114.7026
15.2	106.3	1	-1.28	-3.36	106.284	0.9409	6	1.89201	121.652	0.83754	0	0.8375	125.9	0.9484	-9E-04	6	0.5946	1.1491	1.8504	114.5164
15.3	108.2	1.01	-1.15	-3.36	108.186	0.9336	6	1.88391	121.7681	0.84363	0	0.8436	127.24	0.9409	-8E-04	6	0.5924	1.1436	1.8439	116.0163
15.4	111.6	1.02	-1.29	-3.36	111.584	0.9141	6	1.86771	121.9156	0.84972	0	0.8497	130.32	0.9211	-8E-04	6	0.5872	1.1374	1.8294	119.0367
15.5	115	1.04	-1.35	-3.38	114.983	0.9045	6	1.85471	122.1309	0.85583	0	0.8558	133.35	0.9113	-9E-04	6	0.5831	1.1317	1.8181	122.065
15.6	116.7	1.06	-1.23	-3.38	116.685	0.9084	6	1.85099	122.3061	0.86194	0	0.8619	134.37	0.9152	-8E-04	6	0.5826	1.1269	1.8158	123.3507
15.7	116.3	1.07	-1.1	-3.4	116.287	0.9201	6	1.85568	122.3664	0.86806	0	0.8681	132.96	0.9271	-7E-04	6	0.5851	1.1228	1.8218	122.4768
15.8	114.7	1.08	-0.99	-3.4	114.688	0.9417	6	1.86673	122.4007	0.87418	0	0.8742	130.19	0.9489	-6E-04	6	0.5903	1.1193	1.8341	120.3979
15.9	112.4	1.08	-0.98	-3.4	112.388	0.961	6	1.87912	122.3513	0.8803	0	0.8803	126.67	0.9685	-6E-04	6	0.5958	1.1158	1.8476	117.5914
16	109.9	1.07	-0.98	-3.42	109.888	0.9737	6	1.89029	122.2284	0.88641	0	0.8864	122.97	0.9816	-7E-04	6	0.6007	1.1122	1.86	114.5767
16.1	109.3	1.05	-0.91	-3.42	109.289	0.9608	6	1.88841	122.077	0.89251	0	0.8925	121.45	0.9687	-6E-04	6	0.6008	1.1077	1.8594	113.4729
16.2	111.3	1.04	-1.11	-3.44	111.286	0.9345	6	1.87469	122.0512	0.89862	0	0.8986	122.84	0.9421	-7E-04	6	0.5964	1.1024	1.8472	115.003
16.3	113.3	1.06	-0.99	-3.44	113.288	0.9357	6	1.86906	122.234	0.90473	0	0.9047	124.22	0.9432	-6E-04	6	0.5951	1.0977	1.843	116.5852
16.4	111.4	1.11	-1.05	-3.44	111.387	0.9965	6	1.89223	122.53	0.91086	0	0.9109	121.29	1.0047	-7E-04	6	0.6046	1.0948	1.8673	114.3113
16.5	101.2	1.21	-1.13	-3.44	101.186	1.1958	6	1.97542	122.9269	0.917	0	0.917	109.34	1.2068	-8E-04	6	0.6369	1.0954	1.9513	103.8071
16.6	84	1.36	-1.2	-3.44	83.9853	1.6193	5	2.12342	123.3275	0.92317	0	0.9232	89.975	1.6373	-0.001	5	0.6938	1.0993	2.1	86.29397
16.7	67.8	1.48	-1.21	-3.46	67.7852	2.1834	5	2.27986	123.4236	0.92934	0	0.9293	71.939	2.2137	-0.001	5	0.7541	1.1028	2.2575	69.67975
16.8	58.1	1.54	-1.29	-3.46	58.0842	2.6513	5	2.38653	123.3377	0.93551	0	0.9355	61.089	2.6947	-0.002	5	0.7956	1.1029	2.3658	59.57023
16.9	57.7	1.54	-1.36	-3.46	57.6834	2.6698	5	2.39078	123.3208	0.94167	0	0.9417	60.256	2.7141	-0.002	5	0.7982	1.0975	2.3718	58.85506
17	62.5	1.47	-1.44	-3.5	62.4824	2.3527	5	2.32785	123.1753	0.94783	0	0.9478	64.921	2.3889	-0.002	5	0.7751	1.0891	2.3103	63.33393
17.1	72.3	1.37	-1.55	-3.5	72.281	1.8954	5	2.21765	123.0151	0.95398	0	0.954	74.768	1.9207	-0.002	5	0.7339	1.079	2.2016	72.73495
17.2	78.4	1.19	-1.73	-3.52	78.3788	1.5183	5	2.12717	122.182	0.96009	0	0.9601	80.637	1.5371	-0.002	5	0.7003	1.0705	2.1126	78.32152
17.3	81.9	0.88	-1.39	-3.5	81.883	1.0747	6	2.01652	120.0805	0.9661	0	0.9661	83.757	1.0875	-0.001	6	0.659	1.0618	2.0034	81.19819
17.4	84.4	0.86	-1.28	-3.5	84.3843	1.0192	6	1.99199	119.9857	0.97209	0	0.9721	85.807	1.031	-0.001	6	0.6505	1.0567	1.9803	83.30108
17.5	88	0.87	-1.24	-3.51	87.9848	0.9888	6	1.96961	120.1722	0.9781	0	0.9781	88.955	0.9999	-0.001	6	0.6427	1.0518	1.9592	86.49054
17.6	102.4	0.83	-1.14	-3.54	102.386	0.8107	6	1.86478	120.1975	0.98411	0	0.9841	103.04	0.8185	-8E-04	6	0.6035	1.0447	1.8556	100.1193
17.7	114.4	0.8	-1.2	-3.54	114.385	0.6994	6	1.78779	120.1984	0.99012	0	0.9901	114.53	0.7055	-8E-04	6	0.5749	1.0389	1.7798	111.3386
17.8	124.8	0.79	-0.99	-3.56	124.788	0.6331	6	1.7317	120.3187	0.99614	0	0.9961	124.27	0.6382	-6E-04	6	0.5543	1.034	1.7249	120.9732
17.9	135.2	0.75	-1.11	-3.56	135.186	0.5548	6	1.67001	120.1337	1.00215	0	1.0022	133.9	0.5589	-6E-04	6	0.5315	1.0293	1.6643	130.5311
18	144.7	0.72	-1.06	-3.56	144.687	0.4976	6	1.61881	120.0007	1.00815	0	1.0082	142.52	0.5011	-5E-04	6	0.5127	1.0251	1.6142	139.1978
18.1	152.7	0.71	-1.2	-3.58	152.685	0.465	6	1.58291	120.0296	1.01415	0	1.0142	149.56	0.4681	-6E-04	6	0.4997	1.0214	1.5793	146.4136
18.2	158.6	0.73	-1.05	-3.58	158.587	0.4603	6	1.56681	120.3253	1.02016	0	1.0202	154.45	0.4633	-5E-04	6	0.4942	1.0182	1.5642	151.6259
18.3	163.3	0.78	-1.04	-3.58	163.287	0.4777	6	1.56553	120.8813	1.02621	0	1.0262	158.12	0.4807	-5E-04	6	0.4944	1.0153	1.564	155.6887
18.4	165.8	0.83	-0.98	-3.58	165.788	0.5006	6	1.57197	121.373	1.03228	0	1.0323	159.6	0.5038	-4E-04	6	0.4975	1.0124	1.5714	157.6343
18.5	161.6	0.88	-0.99	-3.58	161.588	0.5446	6	1.60256	121.7384	1.03836	0	1.0384	154.62	0.5481	-4E-04	6	0.5099	1.0097	1.6031	153.197
18.6	155.4	0.88	-1.14	-3.58	155.386	0.5663	6	1.62634	121.643	1.04444	0	1.0444	147.77	0.5702	-5E-04	6	0.5197	1.0068	1.6281	146.8541
18.7	147.4	0.86	-1.27	-3.6	147.384	0.5835	6	1.6525	121.3458	1.05051	0	1.0505	139.3	0.5877	-6E-04	6	0.5304	1.0038	1.6555	138.8272
18.8	138.7	0.83	-1.2	-3.6	138.685	0.5985	6	1.68029	120.9376	1.05656	0	1.0566	130.26	0.6031	-6E-04	6	0.5418	1.0008	1.6847	130.1739
18.9	129.2	0.79	-1.2	-3.6	129.185	0.6115	6	1.71068	120.4032	1.06258	0	1.0626	120.58	0.6166	-7E-04	6	0.5542	0.9977	1.7165	120.804
19	118.9	0.77	-1.22	-3.6	118.885	0.6477	6	1.75454	120.0129	1.06858	0	1.0686	110.26	0.6536	-8E-04	6	0.5718	0.9944	1.762	110.7211
19.1	106.9	0.74	-1.26	-3.6	106.885	0.6923	6	1.80895	119.4626	1.07455	0	1.0746	98.469	0.6994	-9E-04	6	0.5936	0.9909	1.8183	99.08805
19.2	92.8	0.74	-1.16	-3.6	92.7858	0.7975	6	1.89478	119.1176	1.08051	0	1.0805	84.872	0.8069	-9E-04	6	0.6274	0.9869	1.9065	85.53734
19.3	80.8	0.76	-1.1	-3.6	80.7865	0.9408	6	1.98584	118.9749	1.08646	0	1.0865	73.358	0.9536	-1E-03	6	0.6634	0.9826	2.0002	74.01351
19.4	73.7	0.75	-1.2	-3.6	73.6853	1.0178	6	2.03834	118.6536	1.09239	0	1.0924	66.453	1.0332	-0.001	5	0.6846	0.9784	2.055	67.12501
19.5	70.2	0.75	-1.2	-3.6	70.1853	1.0686	5	2.06794	118.5349	1.09832	0	1.0983	62.903	1.0856	-0.001	5	0.6969	0.9743	2.0865	63.61777
19.6	68	0.84	-1.2	-3.6	67.9853	1.2356	5	2.11745	119.2865	1.10428	0	1.1043	60.565	1.256	-0.001	5	0.7167	0.9699	2.1379	61.30245
19.7	63.6	1.02	-1.2	-3.6	63.5853	1.6041	5	2.21165	120.5439	1.11031	0	1.1103	56.268	1.6327	-0.001	5	0.7538	0.9644	2.2345	56.93917
19.8	54.9	1.13	-1.2	-3.61	54.8853	2.0588	5	2.33073	120.9344	1.11636	0	1.1164	48.165	2.1016	-0.002	5	0.8009	0.958	2.3574	48.6813
19.9	44.8	1.2	-1.24	-3.6	44.7848	2.6795	4	2.47269	120.8782	1.1224	0	1.1224	38.901	2.7484	-0.002	4	0.8573	0.9507	2.5047	39.22975
20	38.2	1.25	-1.32	-3.6	38.1838	3.2736	4	2.58236	120.7879	1.12844	0	1.1284	32.838	3.3733	-0.003	4	0.9014	0.9437	2.6195	33.04691
20.1	34.3	1.26	-1.62	-3.6	34.2802	3.6756	4	2.65085	120.5832	1.13447	0	1.1345	29.217	3.8014	-0.004	4	0.9294	0.9373	2.6923	29.36106
20.2	30.1	1.26	-1.63	-3.6	30.0801	4.1888	4	2.73104	120.2644	1.14048	0	1.1405	25.375	4.3539	-0.004	3	0.9623	0.9304	2.778	25.4467
20.3	26.5	1.04	-1.55	-3.59	26.481	3.9273	4	2.75363	118.5495	1.14641	0	1.1464	22.099	4.1051	-0.004	3	0.9734	0.925	2.8063	22.14632
20.4	24.7	0.87	-1.43	-3.59	24.6825	3.5248	4	2.74622	117.072	1.15226	0	1.1523	20.421	3.6974	-0.004	3	0.9724	0.9205	2.8031	20.46894
20.5	25.8	0.9	-1.24	-3.6	25.7848	3.4904	4	2.72898	117.4267	1.15813	0	1.1581	21.264	3.6546	-0.004	4	0.9663	0.9164	2.7861	21.32905
20.6	27.8	0.97	-1.52	-3.58	27.7814	3.4916	4	2.70442	118.1566	1.16404	0	1.164	22.866	3.6442	-0.004	4	0.9569	0.9127	2.7608	22.9606
20.7	31.7	1.03	-2.12	-3.6	31.6741	3.2519	4	2.64114	118.9156	1.16999	0	1.17	26.072	3.3766	-0.005	4	0.9321	0.9106	2.695	26.25067
20.8	31	1.05	-1.56	-3.59	30.9809	3.3892	4	2.66019	119.0023	1.17594	0	1.1759	25.346	3.5229	-0.004	4	0.9406	0.9055	2.7165	25.50526
20.9	32.2	1.02	-1.62	-3.58	32.1802	3.1697	4	2.62865	118.8829	1.18188	0	1.1819	26.228	3.2905	-0.004	4	0.929	0.9023	2.6855	26.43468
21	35.8	0.93	-1.98	-3.58	35.7758	2.5995	4	2.53774	118.4653	1.1878	0	1.1878	29.119	2.6888	-0.004	4	0.894	0.9018	2.5929	29.47819

21.1	39.9	0.88	-2.57	-3.58	39.8685	2.2073	5	2.45611	118.3251	1.19372	0	1.1937	32.399	2.2754	-0.005	4	0.8626	0.9012	2.5097	32.93973
21.2	42.4	0.87	-2.47	-3.57	42.3698	2.0534	5	2.41576	118.3899	1.19964	0	1.1996	34.319	2.1132	-0.004	5	0.8475	0.8991	2.4692	34.98213
21.3	42.5	0.89	-1.4	-3.56	42.4829	2.095	5	2.42041	118.5627	1.20557	0	1.2056	34.239	2.1562	-0.002	5	0.8501	0.895	2.4753	34.91505
21.4	41.4	0.89	-1.35	-3.56	41.3835	2.1506	5	2.43644	118.4988	1.21149	0	1.2115	33.159	2.2155	-0.002	4	0.8574	0.8904	2.4936	33.80554
21.5	42.3	0.89	-1.39	-3.55	42.283	2.1049	5	2.42329	118.5512	1.21742	0	1.2174	33.732	2.1673	-0.002	5	0.853	0.8873	2.4814	34.43431
21.6	45.8	0.87	-1.26	-3.54	45.7846	1.9002	5	2.36839	118.579	1.22335	0	1.2234	36.426	1.9524	-0.002	5	0.8321	0.8863	2.4258	37.32408
21.7	49.6	0.83	-1.2	-3.54	49.5853	1.6739	5	2.30681	118.4291	1.22927	0	1.2293	39.337	1.7164	-0.002	5	0.8086	0.8858	2.3634	40.4823
21.8	52.7	0.78	-1.2	-3.54	52.6853	1.4805	5	2.25304	118.1224	1.23518	0	1.2352	41.654	1.516	-0.002	5	0.7883	0.8852	2.3094	43.04087
21.9	55.6	0.8	-1.2	-3.53	55.5853	1.4392	5	2.22716	118.4383	1.2411	0	1.2411	43.787	1.4721	-0.002	5	0.7788	0.8832	2.2835	45.35998
22	58.5	0.85	-1.25	-3.52	58.4847	1.4534	5	2.21251	119.0059	1.24705	0	1.2471	45.898	1.485	-0.002	5	0.7735	0.8807	2.269	47.63853
22.1	61.6	0.89	-1.22	-3.52	61.5851	1.4452	5	2.19348	119.4684	1.25302	0	1.253	48.149	1.4752	-0.001	5	0.7666	0.8784	2.2501	50.08733
22.2	64.9	0.9	-1.2	-3.52	64.8853	1.3871	5	2.16465	119.6775	1.25901	0	1.259	50.537	1.4145	-0.001	5	0.7559	0.8769	2.2213	52.72746
22.3	67.5	0.91	-1.27	-3.52	67.4845	1.3485	5	2.14368	119.8541	1.265	0	1.265	52.347	1.3742	-0.001	5	0.7483	0.8749	2.2006	54.75373
22.4	68.7	0.91	-1.28	-3.52	68.6843	1.3249	5	2.13292	119.8971	1.27099	0	1.271	53.04	1.3499	-0.001	5	0.7449	0.8724	2.1907	55.57948
22.5	67.7	0.92	-1.28	-3.52	67.6843	1.3593	5	2.14487	119.9413	1.27699	0	1.277	52.003	1.3854	-0.001	5	0.7504	0.8684	2.2044	54.50219
22.6	63.7	0.92	-1.28	-3.52	63.6843	1.4446	5	2.18209	119.7927	1.28298	0	1.283	48.638	1.4743	-0.001	5	0.7659	0.8628	2.2445	50.88183
22.7	58.9	0.89	-1.28	-3.52	58.8843	1.5114	5	2.22088	119.359	1.28895	0	1.289	44.684	1.5453	-0.002	5	0.7823	0.8569	2.2868	46.64525
22.8	56.1	0.85	-1.2	-3.52	56.0853	1.5156	5	2.23808	118.9037	1.29489	0	1.2949	42.313	1.5514	-0.002	5	0.7902	0.8525	2.3068	44.14377
22.9	54.8	0.83	-1.14	-3.52	54.7861	1.515	5	2.24593	118.6724	1.30083	0	1.3008	41.116	1.5518	-0.002	5	0.7943	0.8487	2.3167	42.90082
23	55	0.8	-1.25	-3.5	54.9847	1.455	5	2.23379	118.4118	1.30675	0	1.3068	41.077	1.4904	-0.002	5	0.7904	0.8464	2.3058	42.93547
23.1	53.2	0.81	-1.15	-3.52	53.1859	1.523	5	2.25742	118.4216	1.31267	0	1.3127	39.517	1.5615	-0.002	5	0.8006	0.8415	2.3318	41.25302
23.2	50.3	0.89	-1.2	-3.52	50.2853	1.7699	5	2.31734	118.974	1.31862	0	1.3186	37.135	1.8176	-0.002	5	0.825	0.834	2.3951	38.59331
23.3	49.6	1.1	-1.2	-3.52	49.5853	2.2184	5	2.38527	120.4898	1.32464	0	1.3246	36.433	2.2793	-0.002	5	0.8519	0.8258	2.4651	37.66531
23.4	47.7	1.15	-1.22	-3.52	47.6851	2.4117	5	2.42194	120.7198	1.33068	0	1.3307	34.835	2.4809	-0.002	4	0.8673	0.8197	2.5047	35.91127
23.5	42.7	1.19	-1.2	-3.53	42.6853	2.7878	4	2.49971	120.6998	1.33671	0	1.3367	30.933	2.878	-0.002	4	0.8993	0.8104	2.588	31.66992
23.6	42.1	1.2	-1.01	-3.54	42.0876	2.8512	4	2.51078	120.7267	1.34275	0	1.3428	30.344	2.9452	-0.002	4	0.9046	0.8061	2.6011	31.04224
23.7	41.4	1.21	-1.89	-3.57	41.3769	2.9243	4	2.52363	120.7458	1.34879	0	1.3488	29.677	3.0229	-0.003	4	0.9106	0.8017	2.6161	30.32836
23.8	41	1.22	-2.88	-3.59	40.9648	2.9782	4	2.53216	120.7816	1.35483	0	1.3548	29.236	3.08	-0.005	4	0.9148	0.7976	2.6266	29.85821
23.9	40.5	1.23	-1.16	-3.6	40.4858	3.0381	4	2.54175	120.8127	1.36087	0	1.3609	28.75	3.1438	-0.002	4	0.9195	0.7934	2.6382	29.33814
24	37.1	1.24	-0.9	-3.6	37.089	3.3433	4	2.59786	120.6582	1.3669	0	1.3669	26.134	3.4712	-0.002	4	0.9432	0.7854	2.6995	26.51677
24.1	33.2	1.21	-0.68	-3.62	33.1917	3.6455	4	2.65883	120.2082	1.37291	0	1.3729	23.176	3.8028	-0.002	4	0.9692	0.7769	2.7671	23.3631
24.2	28.1	1.1	-0.8	-3.62	28.0902	3.916	4	2.73357	119.1038	1.37887	0	1.3789	19.372	4.1181	-0.002	3	1	0.7674	2.8515	19.37197
24.3	26.5	0.99	-0.64	-3.63	26.4922	3.737	4	2.73932	118.19	1.38478	0	1.3848	18.131	3.9431	-0.002	3	1	0.7641	2.8615	18.13102
24.4	26.5	0.95	-0.89	-3.62	26.4891	3.5864	4	2.7277	117.888	1.39067	0	1.3907	18.048	3.7851	-0.003	3	1	0.7609	2.8518	18.04774
24.5	27.6	0.92	-1.27	-3.62	27.5845	3.3352	4	2.69385	117.752	1.39656	0	1.3966	18.752	3.5131	-0.003	3	0.9895	0.7599	2.8176	18.80647
24.6	27.6	0.85	-1.08	-3.63	27.5868	3.0812	4	2.67169	117.1732	1.40242	0	1.4024	18.671	3.2462	-0.003	4	0.9819	0.7583	2.7969	18.76622
24.7	25.6	0.85	-0.52	-3.62	25.5936	3.3211	4	2.71756	116.9903	1.40827	0	1.4083	17.174	3.5145	-0.002	3	1	0.7514	2.8485	17.17387
24.8	26	0.88	-0.84	-3.62	25.9897	3.386	4	2.71784	117.2815	1.41413	0	1.4141	17.379	3.5808	-0.002	3	1	0.7482	2.8495	17.3786
24.9	30	0.95	-1.22	-3.61	29.9851	3.1682	4	2.6518	118.1903	1.42004	0	1.42	20.116	3.3258	-0.003	4	0.9753	0.7506	2.7774	20.26215
25	35.1	1.02	-1.67	-3.59	35.0796	2.9077	4	2.57581	119.0933	1.42599	0	1.426	23.6	3.0309	-0.004	4	0.9443	0.7545	2.695	23.99598
25.1	43.9	1.07	-2.01	-3.58	43.8754	2.4387	5	2.45235	119.9891	1.43199	0	1.432	29.639	2.521	-0.003	4	0.8942	0.763	2.5625	30.60406
25.2	54.3	1.03	-1.97	-3.57	54.2759	1.8977	5	2.31128	120.2292	1.438	0	1.438	36.744	1.9494	-0.003	5	0.8378	0.7734	2.4138	38.61799
25.3	62.6	1.04	-3.06	-3.56	62.5626	1.6623	5	2.22702	120.6464	1.44404	0	1.444	42.325	1.7016	-0.004	5	0.8044	0.7787	2.3252	44.97852
25.4	60.7	1.05	-5.41	-3.55	60.6338	1.7317	5	2.24888	120.6401	1.45007	0	1.4501	40.814	1.7741	-0.007	5	0.814	0.7737	2.3496	43.27813
25.5	50	1.07	-2.24	-3.54	49.9726	2.1412	5	2.37264	120.3065	1.45608	0	1.4561	33.32	2.2054	-0.003	5	0.8649	0.7587	2.4827	34.78802
25.6	39.7	1.09	-1.05	-3.54	39.6872	2.7465	4	2.51911	119.8799	1.46208	0	1.4621	26.144	2.8515	-0.002	4	0.9255	0.7413	2.6413	26.78153
25.7	33.4	1.14	-1.05	-3.52	33.3872	3.4145	4	2.63795	119.7865	1.46807	0	1.4681	21.742	3.5715	-0.002	4	0.975	0.7267	2.7706	21.92086
25.8	33.5	1.24	-1.02	-3.54	33.4875	3.7029	4	2.66052	120.4091	1.47409	0	1.4741	21.717	3.8734	-0.002	3	0.9845	0.7215	2.7947	21.82971
25.9	35.8	1.28	-1.19	-3.53	35.7854	3.5769	4	2.62909	120.8032	1.48013	0	1.4801	23.177	3.7312	-0.003	4	0.972	0.7216	2.7612	23.39599
26	33.1	1.18	-1.17	-3.52	33.0857	3.5665	4	2.65349	120.0167	1.48613	0	1.4861	21.263	3.7342	-0.003	4	0.9838	0.7159	2.7913	21.3807
26.1	32.3	1.05	-0.91	-3.52	32.2889	3.2519	4	2.63485	119.1032	1.49208	0	1.4921	20.64	3.4095	-0.002	4	0.978	0.7145	2.7754	20.79686
26.2	42.5	1.05	-0.79	-3.52	42.4903	2.4712	5	2.46664	119.7728	1.49807	0	1.4981	27.363	2.5615	-0.001	4	0.9093	0.729	2.594	28.2402
26.3	56.8	1.03	-1.14	-3.53	56.7861	1.8138	5	2.2836	120.3395	1.50409	0	1.5041	36.754	1.8632	-0.001	5	0.8353	0.7454	2.3986	38.94652
26.4	62	1.01	-1.05	-3.53	61.9872	1.6294	5	2.22447	120.4097	1.51011	0	1.5101	40.048	1.6701	-0.001	5	0.8121	0.7491	2.3369	42.81609
26.5	67.7	1	-0.84	-3.52	67.6897	1.4773	5	2.16785	120.5516	1.51614	0	1.5161	43.646	1.5112	-9E-04	5	0.7899	0.7527	2.2778	47.07212
26.6	77.2	1.03	-0.17	-3.54	77.1979	1.3342	5	2.09568	121.0884	1.52219	0	1.5222	49.715	1.3611	-2E-04	5	0.7607	0.7583	2.2013	54.23636
26.7	107.4	1.1	-0.8	-3.56	107.39	1.0243	6	1.91206	122.3746	1.52831	0	1.5283	69.267	1.0391	-5E-04	6	0.6865	0.7769	2.006	77.72929
26.8	109.6	1.2	-0.82	-3.56	109.59	1.095	6	1.92417	123.0608	1.53446	0	1.5345	70.419	1.1105	-6E-04	6	0.6916	0.7733	2.0185	78.97226
26.9	110	1.48	-0.68	-3.56	109.992	1.3456	6	1.98274	124.6042	1.54069	0	1.5407	70.391	1.3647	-5E-04	5	0.7147	0.7645	2.0784	78.35653
27	99.7	1.75	-0.68	-3.54	99.6917	1.7554	5	2.09333	125.5905	1.54697	0	1.547	63.443	1.7831	-5E-04	5	0.7591	0.7495	2.1942	69.52184
27.1	85.9	1.74	-0.68	-3.54	85.8917	2.0258	5	2.1831	125.1852	1.55323	0	1.5532	54.299	2.0631	-6E-04	5	0.7968	0.7365	2.2911	58.70457
27.2	86	1.72	-0.7	-3.54	85.9914	2.0002	5	2.17888	125.1034	1.55949	0	1.5595	54.141	2.0371	-6E-04	5	0.7959	0.7344	2.288	58.60173
27.3	98.1	1.76	-0.98	-3.54	98.088	1.7943	5	2.10502	125.5927	1.56577	0	1.5658	61.645	1.8234	-7E-04	5	0.766	0.7407	2.2099	67.56641
27.4	155.3	1.85	-0.97	-3.52	155.288	1.1913	6	1.83808	127.0781	1.57212	0	1.5721	97.776	1.2035	-5E-04	6	0.6582	0.7706	1.9262	111.9446
27.5	192.2	1.96	-0.87	-3.54	192.189	1.0198	6	1.72491	128.0207	1.57852	0	1.5785	120.75	1.0283	-3E-04	6	0.6128	0.7826	1.8063	140.9793
27.6	205.6	1.92	-0.75	-3.54	205.591	0.9339	6	1.67714	128.0342	1.58492	0	1.5849	128.72	0.9412	-3E-04	6	0.5943	0.7865	1.7569	151.6423
27.7	210.4	1.85	-0.78	-3.54	210.39	0.8793	6	1.65156	127.8188	1.59132	0	1.5913	131.21	0.886	-3E-04	6	0.5849	0.7877	1.7313	155.4335
27.8	212.8	1.85	-0.83	-3.53	212.79	0.8694	6	1.6446	127.8464	1.59771	0	1.5977	132.18	0.876	-3E-04	6	0.5827	0.7865	1.7248	156.9879
27.9	216.1	1.92	-0.83	-3.52	216.09	0.8885	6	1.64655	128.1557	1.60412	0	1.6041	133.71	0.8952	-3E-04	6	0.5839	0.7843	1.7271	158.9863
28	220.6	1.99	-0.8	-3.52	220.59	0.9021	6	1.64497	128.468	1.61054	0	1.6105	135.97	0.9088	-3E-04	6	0.5836	0.7826	1.7257	161.9555
28.1	225.5	2.04	-0.78	-3.52	225.49	0.9047	6	1.63919	128.7032	1.61697	0	1.617	138.45	0.9112	-3E-04	6	0.5818	0.7814	1.7199	165.321

28.2	227.2	2.01	-0.83	-3.51	227.19	0.8847	6	1.62997	128.6131	1.6234	0	1.6234	138.95	0.8911	-3E-04	6	0.5788	0.7806	1.7112	166.4014
28.3	224.2	1.95	-0.83	-3.5	224.19	0.8698	6	1.62874	128.3589	1.62982	0	1.6298	136.55	0.8762	-3E-04	6	0.5791	0.7787	1.7113	163.7864
28.4	221.9	1.95	-0.75	-3.51	221.891	0.8788	6	1.63507	128.3338	1.63624	0	1.6362	134.61	0.8853	-3E-04	6	0.5823	0.7758	1.7188	161.4971
28.5	221.1	1.94	-0.63	-3.51	221.092	0.8775	6	1.6357	128.2874	1.64265	0	1.6427	133.59	0.884	-2E-04	6	0.5832	0.7738	1.7204	160.4766
28.6	220.9	1.92	-0.7	-3.5	220.891	0.8692	6	1.63306	128.2093	1.64906	0	1.6491	132.95	0.8757	-2E-04	6	0.5828	0.7721	1.7186	159.9882
28.7	221.5	1.88	-1.02	-3.5	221.488	0.8488	6	1.62492	128.0619	1.65547	0	1.6555	132.79	0.8552	-3E-04	6	0.5803	0.7713	1.7112	160.2384
28.8	225.2	1.89	-1.45	-3.5	225.182	0.8393	6	1.61639	128.141	1.66187	0	1.6619	134.5	0.8456	-5E-04	6	0.5774	0.7705	1.7028	162.7735
28.9	233.6	1.91	-2.02	-3.5	233.575	0.8177	6	1.59716	128.3073	1.66829	0	1.6683	139.01	0.8236	-6E-04	6	0.5701	0.7714	1.6829	169.0637
29	243	1.95	-2.44	-3.5	242.97	0.8026	6	1.57933	128.5551	1.67472	0	1.6747	144.08	0.8081	-7E-04	6	0.5633	0.7721	1.6644	176.0688
29.1	247.3	1.97	-2.72	-3.5	247.267	0.7967	6	1.57172	128.6725	1.68115	0	1.6812	146.08	0.8022	-8E-04	6	0.5608	0.7713	1.6569	179.0239
29.2	247.1	2.03	-2.42	-3.48	247.07	0.8216	6	1.58153	128.8901	1.6876	0	1.6876	145.4	0.8273	-7E-04	6	0.5652	0.7681	1.6676	178.1278
29.3	240.7	1.93	-2.33	-3.48	240.671	0.8019	6	1.58199	128.4565	1.69402	0	1.694	141.07	0.8076	-7E-04	6	0.5663	0.766	1.6698	173.0127
29.4	226.9	1.78	-2.53	-3.46	226.869	0.7846	6	1.59349	127.7205	1.7004	0	1.7004	132.42	0.7905	-8E-04	6	0.5722	0.7623	1.6844	162.2171
29.5	210.2	1.82	-3.04	-3.46	210.163	0.866	6	1.64723	127.6965	1.70679	0	1.7068	122.13	0.8731	-0.001	6	0.5945	0.7526	1.7422	148.2627
29.6	196.5	1.79	-3.38	-3.44	196.459	0.9111	6	1.68358	127.4104	1.71316	0	1.7132	113.68	0.9192	-0.001	6	0.6101	0.7453	1.7823	137.172
29.7	183.4	1.73	-3.65	-3.46	183.355	0.9435	6	1.71563	126.9926	1.71951	0	1.7195	105.63	0.9525	-0.001	6	0.6241	0.7386	1.8182	126.787
29.8	173.8	1.71	-4.25	-3.46	173.748	0.9842	6	1.74517	126.7763	1.72585	0	1.7259	99.674	0.9941	-0.002	6	0.6369	0.7323	1.851	119.0534
29.9	163.7	1.68	-4.8	-3.46	163.641	1.0266	6	1.77663	126.5006	1.73217	0	1.7322	93.472	1.0376	-0.002	6	0.6505	0.7257	1.886	111.044
30	154.4	1.62	-5.43	-3.42	154.334	1.0497	6	1.80168	126.0917	1.73848	0	1.7385	87.775	1.0616	-0.003	6	0.6617	0.72	1.9146	103.8307
30.1	147.9	1.57	-6.15	-3.44	147.825	1.0621	6	1.81878	125.7572	1.74477	0	1.7448	83.725	1.0748	-0.003	6	0.6696	0.7154	1.9346	98.7689
30.2	145.5	1.58	-6.72	-3.44	145.418	1.0865	6	1.83074	125.7636	1.75105	0	1.7511	82.046	1.0998	-0.003	6	0.6751	0.7117	1.9483	96.6346
30.3	143.8	1.67	-7.29	-3.43	143.711	1.1621	6	1.85459	126.1401	1.75736	0	1.7574	80.776	1.1764	-0.004	6	0.6851	0.7064	1.9737	94.76863
30.4	139.6	1.78	-7.95	-3.44	139.503	1.276	6	1.89214	126.5344	1.76369	0	1.7637	78.097	1.2923	-0.004	6	0.7007	0.6991	2.0138	91.00214
30.5	130.1	1.95	-8.24	-3.44	129.999	1.5	6	1.96344	127.0298	1.77004	0	1.77	72.444	1.5207	-0.005	5	0.7299	0.6869	2.0898	83.2447
30.6	113.4	2.02	-8.5	-3.43	113.296	1.7829	5	2.05882	126.9524	1.77639	0	1.7764	62.779	1.8113	-0.005	5	0.7696	0.6712	2.1932	70.7386
30.7	98.4	1.92	-8.52	-3.44	98.2957	1.9533	5	2.13035	126.2345	1.7827	0	1.7827	54.139	1.9894	-0.006	5	0.8003	0.6587	2.2731	60.08181
30.8	91.1	1.88	-8.7	-3.44	90.9935	2.0661	5	2.17129	125.8922	1.78899	0	1.789	49.863	2.1075	-0.007	5	0.8182	0.6507	2.3192	54.85824
30.9	98	1.79	-9.39	-3.44	97.8851	1.8287	5	2.11144	125.7113	1.79528	0	1.7953	53.524	1.8628	-0.007	5	0.7946	0.657	2.2564	59.66407
31	132.2	1.7	-10.24	-3.42	132.075	1.2872	6	1.9118	126.0645	1.80158	0	1.8016	72.31	1.305	-0.006	5	0.7132	0.6842	2.0419	84.23518
31.1	168.3	1.68	-11.13	-3.42	168.164	0.999	6	1.75989	126.5671	1.80791	0	1.8079	92.016	1.0099	-0.005	6	0.6513	0.7055	1.8787	110.9127
31.2	187.3	1.5	-11.28	-3.41	187.162	0.8015	6	1.66046	125.9989	1.81421	0	1.8142	102.16	0.8093	-0.004	6	0.612	0.719	1.7746	125.9398
31.3	193.3	1.26	-11.22	-3.41	193.163	0.6523	6	1.59085	124.8001	1.82045	0	1.8205	105.11	0.6585	-0.004	6	0.5853	0.7279	1.7038	131.63
31.4	193.3	1.1	-10.47	-3.42	193.172	0.5694	6	1.55312	123.8066	1.82664	0	1.8266	104.75	0.5749	-0.004	6	0.5714	0.732	1.6665	132.371
31.5	191.8	1.02	-9.33	-3.42	191.686	0.5321	6	1.53744	123.2353	1.8328	0	1.8328	103.59	0.5373	-0.004	6	0.5661	0.7327	1.6518	131.4677
31.6	187.9	0.99	-9.06	-3.4	187.789	0.5272	6	1.54201	122.9668	1.83895	0	1.839	101.12	0.5324	-0.004	6	0.5688	0.7302	1.6582	128.3288
31.7	180.4	1	-8.51	-3.4	180.296	0.5546	6	1.5695	122.941	1.8451	0	1.8451	96.716	0.5604	-0.003	6	0.5807	0.724	1.6886	122.1106
31.8	172.8	1.08	-8.35	-3.4	172.698	0.6254	6	1.61654	123.3991	1.85127	0.00312	1.8482	92.442	0.6322	-0.004	6	0.5999	0.7157	1.7385	115.555
31.9	167.7	1.22	-8.27	-3.4	167.599	0.7279	6	1.66867	124.2179	1.85748	0.00624	1.8512	89.53	0.7361	-0.004	6	0.6207	0.7067	1.7929	110.6895
32	167.6	1.38	-8.16	-3.4	167.5	0.8239	6	1.70423	125.1181	1.86373	0.00936	1.8544	89.322	0.8332	-0.004	6	0.6347	0.7004	1.8293	109.6396
32.1	171.8	1.46	-8.3	-3.4	171.698	0.8503	6	1.70545	125.5908	1.87001	0.01248	1.8575	91.427	0.8597	-0.004	6	0.6351	0.6995	1.8298	112.2711
32.2	172.2	1.38	-8.96	-3.4	172.09	0.8019	6	1.68765	125.1841	1.87627	0.0156	1.8607	91.48	0.8107	-0.004	6	0.6285	0.7013	1.8122	112.8223
32.3	166.8	1.33	-9.66	-3.39	166.682	0.7979	6	1.69659	124.8361	1.88251	0.01872	1.8638	88.421	0.807	-0.004	6	0.6328	0.6989	1.8232	108.8511
32.4	157.1	1.06	-9.9	-3.38	156.979	0.6753	6	1.66972	123.0296	1.88867	0.02184	1.8668	83.077	0.6835	-0.005	6	0.6239	0.7017	1.7993	102.8521
32.5	143.3	0.93	-9.98	-3.38	143.178	0.6495	6	1.69064	121.8478	1.89476	0.02496	1.8698	75.561	0.6583	-0.005	6	0.634	0.697	1.8253	93.06839
32.6	129.6	0.95	-9.95	-3.37	129.478	0.7337	6	1.75762	121.7581	1.90085	0.02808	1.8728	68.122	0.7447	-0.006	6	0.6619	0.6853	1.8984	82.62631
32.7	107.2	0.93	-9.83	-3.38	107.08	0.8685	6	1.86774	121.1392	1.9069	0.0312	1.8757	56.071	0.8843	-0.007	6	0.7083	0.6667	2.0197	66.26341
32.8	87.3	0.98	-8.45	-3.38	87.1966	1.1239	6	2.00743	121.0214	1.91295	0.03432	1.8786	45.397	1.1491	-0.008	5	0.7665	0.644	2.1722	51.9089
32.9	74.4	0.96	-8.47	-3.36	74.2963	1.2921	5	2.0996	120.48	1.91898	0.03744	1.8815	38.467	1.3264	-0.009	5	0.8057	0.6289	2.2748	43.01891
33	68.4	1.04	-8.27	-3.35	68.2988	1.5227	5	2.17332	120.8604	1.92502	0.04056	1.8845	35.222	1.5669	-0.01	5	0.8363	0.6171	2.3548	38.71223
33.1	60.9	1.17	-8.41	-3.36	60.7971	1.9244	5	2.27799	121.4384	1.93109	0.04368	1.8874	31.189	1.9876	-0.011	5	0.8802	0.6009	2.4682	33.42792
33.2	55.4	1.28	-9.46	-3.36	55.2842	2.3153	5	2.36225	121.8641	1.93719	0.0468	1.8904	28.22	2.3994	-0.014	4	0.9151	0.588	2.5598	29.64621
33.3	50.1	1.36	-10.74	-3.36	49.9685	2.7217	5	2.44203	122.0611	1.94329	0.04992	1.8934	25.365	2.8318	-0.017	4	0.9485	0.5759	2.6476	26.13723
33.4	43.8	1.41	-11.49	-3.35	43.6594	3.2296	4	2.53553	121.9961	1.94939	0.05304	1.8964	21.995	3.3805	-0.021	4	0.9882	0.5618	2.7519	22.14732
33.5	40.5	1.39	-11.58	-3.34	40.3583	3.4442	4	2.57956	121.6998	1.95547	0.05616	1.8993	20.219	3.6195	-0.023	3	1	0.5571	2.8013	20.21929
33.6	39.6	1.36	-11.64	-3.34	39.4575	3.4467	4	2.58697	121.4851	1.96155	0.05928	1.9023	19.711	3.6271	-0.024	3	1	0.5562	2.8105	19.71119
33.7	39.4	1.34	-11.72	-3.34	39.2566	3.4134	4	2.58574	121.3642	1.96762	0.0624	1.9052	19.572	3.5936	-0.024	3	1	0.5554	2.8103	19.57201
33.8	42.3	1.25	-11.8	-3.33	42.1556	2.9652	4	2.52165	121.0293	1.97367	0.06552	1.9082	21.058	3.1109	-0.023	4	0.9855	0.5593	2.7433	21.2395
33.9	46	1.18	-11.81	-3.32	45.8555	2.5733	5	2.45334	120.8128	1.97971	0.06864	1.9111	22.959	2.6894	-0.021	4	0.9574	0.5678	2.669	23.54396
34	47.3	1.2	-11.81	-3.31	47.1555	2.5448	5	2.44106	121.004	1.98576	0.07176	1.914	23.6	2.6567	-0.02	4	0.9524	0.5687	2.6553	24.27555
34.1	43.4	1.21	-11.88	-3.32	43.2546	2.7974	4	2.49641	120.8541	1.9918	0.07488	1.9169	21.526	2.9324	-0.023	4	0.9763	0.5598	2.718	21.83117
34.2	44.2	1.2	-11.88	-3.31	44.0546	2.7239	4	2.48277	120.8381	1.99784	0.078	1.9198	21.906	2.8533	-0.022	4	0.9709	0.5608	2.7036	22.28886
34.3	47.3	1.26	-11.81	-3.31	47.1555	2.672	5	2.45522	121.361	2.00391	0.08112	1.9228	23.482	2.7906	-0.021	4	0.9589	0.564	2.6715	24.06555
34.4	55.8	1.33	-11.98	-3.31	55.6534	2.3898	5	2.36937	122.1607	2.01002	0.08424	1.9258	27.855	2.4793	-0.018	4	0.9221	0.5757	2.574	29.1852
34.5	66.8	1.36	-12.15	-3.31	66.6513	2.0405	5	2.26526	122.7637	2.01616	0.08736	1.9288	33.511	2.1041	-0.015	5	0.8783	0.5902	2.4578	36.05188
34.6	80.8	1.06	-12.47	-3.3	80.6474	1.3144	5	2.07695	121.4051	2.02223	0.09048	1.9318	40.702	1.3482	-0.013	5	0.8011	0.6174	2.2566	45.87744
34.7	90.7	1.05	-12.69	-3.29	90.5447	1.1597	6	2.00348	121.6181	2.02831	0.0936	1.9347	45.752	1.1862	-0.011	5	0.7706	0.6281	2.1761	52.54364
34.8	100.4	1.03	-12.61	-3.31	100.246	1.0275	6	1.9359	121.7256	2.0344	0.09672	1.9377	50.685	1.0488	-0.01	5	0.7428	0.638	2.1026	59.21964
34.9	108.8	1.03	-12.49	-3.31	108.647	0.948	6	1.8867	121.9219	2.04049	0.09984	1.9407	54.933	0.9662	-0.009	6	0.7225	0.6452	2.0489	65.00432
35	114.2	1.04	-12.24	-3.31	114.05	0.9119	6	1.8597	122.111	2.0466	0.10296	1.9436	57.626	0.9285	-0.009	6	0.7114	0.6488	2.0194	68.68053
35.1	116.6	1.11	-12.11	-3.32	116.452	0.9532	6	1.86502	122.6384	2.05273	0.10608	1.9467	58.767	0.9703	-0.009	6	0.7133	0.6474	2.0241	69.98974
35.2	111	1.2	-9.33	-3.34	110.886	1.0822	6	1.91697	123.0894	2.05888	0.1092	1.9497	55.818	1.1027	-0.007	5	0.7347	0.6383	2.0798	65.64527

35.3	116.4	1.28	-3.67	-3.36	116.355	1.1001	6	1.90591	123.6791	2.06507	0.11232	1.9528	58.528	1.12	-0.003	5	0.7297	0.6395	2.0664	69.07021
35.4	113.1	1.25	-4.66	-3.36	113.043	1.1058	6	1.91681	123.4351	2.07124	0.11544	1.9558	56.74	1.1264	-0.004	5	0.7349	0.6367	2.0795	66.77724
35.5	112.6	1.29	-4.97	-3.36	112.539	1.1463	6	1.92859	123.6547	2.07742	0.11856	1.9589	56.391	1.1678	-0.004	5	0.7398	0.6341	2.0922	66.19155
35.6	114.4	1.27	-5.03	-3.37	114.338	1.1107	6	1.91438	123.5791	2.0836	0.12168	1.9619	57.217	1.1314	-0.004	5	0.7343	0.6355	2.0774	67.41564
35.7	109.7	1.23	-4.71	-3.38	109.642	1.1218	6	1.93092	123.2426	2.08976	0.1248	1.965	54.735	1.1436	-0.004	5	0.7419	0.6318	2.097	64.21533
35.8	108.1	1.18	-4.11	-3.38	108.05	1.0921	6	1.92807	122.9033	2.09591	0.12792	1.968	53.839	1.1137	-0.004	5	0.7415	0.6312	2.0955	63.20562
35.9	108.2	1.15	-4.23	-3.38	108.148	1.0634	6	1.92023	122.7171	2.10204	0.13104	1.971	53.803	1.0844	-0.004	5	0.7388	0.6316	2.088	63.29502
36	113.2	1.18	-4.2	-3.39	113.149	1.0429	6	1.89983	123.0157	2.1082	0.13416	1.974	56.25	1.0627	-0.004	5	0.7303	0.6342	2.0653	66.55255
36.1	124.1	1.22	-4.61	-3.4	124.044	0.9835	6	1.85298	123.4839	2.11437	0.13728	1.9771	61.671	1.0006	-0.004	6	0.7106	0.6413	2.0133	73.89946
36.2	136.3	1.26	-5.44	-3.4	136.233	0.9249	6	1.80474	123.9485	2.12057	0.1404	1.9802	67.728	0.9395	-0.004	6	0.6904	0.6488	1.9598	82.22904
36.3	145.8	1.23	-6.33	-3.41	145.723	0.8441	6	1.75663	123.9364	2.12676	0.14352	1.9832	72.405	0.8566	-0.004	6	0.6709	0.6561	1.908	89.0376
36.4	149.8	1.17	-6.86	-3.42	149.716	0.7815	6	1.72599	123.6365	2.13295	0.14664	1.9863	74.3	0.7928	-0.004	6	0.6588	0.6604	1.8761	92.11009
36.5	152.8	1.12	-6.99	-3.42	152.714	0.7334	6	1.70169	123.3653	2.13911	0.14976	1.9894	75.691	0.7438	-0.004	6	0.6494	0.6637	1.8509	94.44363
36.6	155.7	1.1	-7	-3.44	155.614	0.7069	6	1.68522	123.2793	2.14528	0.15288	1.9924	77.027	0.7168	-0.004	6	0.643	0.6657	1.8337	96.55415
36.7	156.4	1.09	-7.06	-3.44	156.314	0.6973	6	1.67996	123.2234	2.15144	0.156	1.9954	77.257	0.7071	-0.004	6	0.6412	0.6658	1.8286	97.00589
36.8	154.8	1.05	-7.43	-3.46	154.709	0.6787	6	1.67603	122.9247	2.15759	0.15912	1.9985	76.334	0.6883	-0.005	6	0.6402	0.6656	1.8256	95.95906
36.9	154.3	0.97	-7.51	-3.48	154.208	0.629	6	1.65663	122.3369	2.1637	0.16224	2.0015	75.967	0.638	-0.005	6	0.6331	0.668	1.8066	95.98049
37	153	0.82	-7.71	-3.48	152.906	0.5363	6	1.61794	121.087	2.16976	0.16536	2.0044	75.203	0.544	-0.005	6	0.6187	0.6735	1.7684	95.94428
37.1	143.9	0.72	-8.14	-3.48	143.8	0.5007	6	1.62252	119.9857	2.17576	0.16848	2.0073	70.556	0.5084	-0.005	6	0.6221	0.6714	1.7769	89.87081
37.2	130.4	0.76	-8.65	-3.5	130.294	0.5833	6	1.69567	120.1407	2.18176	0.1716	2.0102	63.732	0.5932	-0.006	6	0.6527	0.6578	1.8568	79.64581
37.3	112.7	0.87	-9.07	-3.5	112.589	0.7727	6	1.81936	120.7736	2.1878	0.17472	2.0131	54.842	0.788	-0.008	6	0.7038	0.6359	1.9907	66.35204
37.4	95.1	1.01	-9.33	-3.5	94.9858	1.0633	6	1.96343	121.4507	2.19387	0.17784	2.016	46.027	1.0885	-0.009	5	0.7634	0.6113	2.1471	53.60978
37.5	80.2	1.18	-9.4	-3.51	80.0849	1.4734	5	2.11156	122.1728	2.19998	0.18096	2.019	38.576	1.5151	-0.011	5	0.8248	0.5869	2.308	43.198
37.6	68.3	1.3	-9.36	-3.52	68.1854	1.9066	5	2.23811	122.4891	2.20611	0.18408	2.022	32.63	1.9703	-0.013	5	0.8787	0.566	2.4472	35.29604
37.7	57.1	1.39	-9.37	-3.52	56.9853	2.4392	5	2.36782	122.5412	2.21223	0.1872	2.025	27.048	2.5377	-0.016	4	0.9335	0.5456	2.5915	28.24171
37.8	45	1.49	-9.44	-3.52	44.8845	3.3196	4	2.53495	122.4674	2.21836	0.19032	2.028	21.038	3.4922	-0.02	4	1	0.5217	2.7782	21.03812
37.9	35.1	1.36	-9.52	-3.53	34.9835	3.8876	4	2.66083	121.1916	2.22442	0.19344	2.031	16.13	4.1515	-0.027	3	1	0.521	2.915	16.12971
38	31.2	1.21	-9.51	-3.54	31.0836	3.8927	4	2.69908	120.0482	2.23042	0.19656	2.0339	14.186	4.1937	-0.031	3	1	0.5203	2.9612	14.18642
38.1	29.8	1.08	-9.41	-3.55	29.6848	3.6382	4	2.69444	119.1042	2.23637	0.19968	2.0367	13.477	3.9347	-0.032	3	1	0.5195	2.9617	13.47696
38.2	31.5	0.93	-9.29	-3.55	31.3863	2.9631	4	2.61785	118.1461	2.24228	0.2028	2.0395	14.29	3.1911	-0.03	3	1	0.5188	2.8864	14.28991
38.3	38.4	0.98	-9.25	-3.54	38.2868	2.5596	4	2.51092	119.0139	2.24823	0.20592	2.0423	17.646	2.7193	-0.024	4	1	0.5181	2.7714	17.64595
38.4	44.8	1.06	-9.28	-3.54	44.6864	2.3721	5	2.43846	119.9651	2.25423	0.20904	2.0452	20.747	2.4981	-0.021	4	0.9703	0.5276	2.6862	21.15744
38.5	51.4	1.02	-9.33	-3.54	51.2858	1.9889	5	2.34323	120.0196	2.26023	0.21216	2.0481	23.937	2.0806	-0.018	4	0.9301	0.541	2.5796	25.06807
38.6	68.6	1.19	-9.43	-3.54	68.4846	1.7376	5	2.20987	121.8529	2.26632	0.21528	2.051	32.285	1.7971	-0.014	5	0.8705	0.5621	2.4239	35.17437
38.7	91.3	1.3	-9.71	-3.54	91.1812	1.4257	5	2.05987	123.1979	2.27248	0.2184	2.0541	43.284	1.4622	-0.01	5	0.8058	0.586	2.2536	49.23532
38.8	111.2	1.3	-10.13	-3.54	111.076	1.1704	6	1.93884	123.6793	2.27867	0.22152	2.0572	52.887	1.1949	-0.009	5	0.7548	0.6054	2.1193	62.25076
38.9	115.1	0.9	-10.84	-3.55	114.967	0.7828	6	1.81562	121.0726	2.28472	0.22464	2.0601	54.698	0.7987	-0.009	6	0.707	0.6244	1.9933	66.48996
39	106.3	0.68	-11.31	-3.56	106.162	0.6405	6	1.79178	118.8273	2.29066	0.22776	2.0629	50.352	0.6547	-0.01	6	0.7	0.6267	1.9746	61.51604
39.1	94.9	0.73	-11.52	-3.55	94.759	0.7704	6	1.87852	119.0693	2.29662	0.23088	2.0657	44.76	0.7895	-0.011	5	0.7365	0.611	2.07	53.38916
39.2	86.5	0.82	-11.58	-3.54	86.3583	0.9495	6	1.96522	119.6936	2.3026	0.234	2.0686	40.634	0.9755	-0.013	5	0.7725	0.5958	2.1642	47.32956
39.3	83.1	0.87	-11.63	-3.55	82.9577	1.0487	6	2.00549	120.0287	2.3086	0.23712	2.0715	38.933	1.0788	-0.013	5	0.7893	0.5885	2.2081	44.8522
39.4	83.1	0.86	-11.61	-3.56	82.9579	1.0367	6	2.00239	119.9441	2.3146	0.24024	2.0744	38.876	1.0664	-0.013	5	0.7885	0.5882	2.2055	44.8258
39.5	85.5	0.82	-11.58	-3.56	85.3583	0.9607	6	1.97232	119.6652	2.32058	0.24336	2.0772	39.975	0.9875	-0.013	5	0.7765	0.5923	2.1737	46.4802
39.6	90	0.87	-11.58	-3.56	89.8583	0.9682	6	1.95677	120.2236	2.32659	0.24648	2.0801	42.08	0.9939	-0.012	5	0.7695	0.5944	2.155	49.17389
39.7	94.8	0.99	-11.63	-3.56	94.6577	1.0459	6	1.96004	121.2959	2.33266	0.2496	2.0831	44.322	1.0723	-0.012	5	0.7698	0.5937	2.1554	51.80105
39.8	97.1	1.1	-11.61	-3.55	96.9579	1.1345	6	1.9746	122.1254	2.33877	0.25272	2.0861	45.358	1.1626	-0.012	5	0.7751	0.5909	2.169	52.83869
39.9	97	1.17	-11.58	-3.54	96.8583	1.208	6	1.99263	122.5743	2.34489	0.25584	2.0891	45.242	1.2379	-0.012	5	0.7824	0.5873	2.1878	52.45996
40	96.2	1.26	-11.58	-3.54	96.0583	1.3117	6	2.01889	123.0963	2.35105	0.25896	2.0921	44.791	1.3446	-0.012	5	0.793	0.5824	2.2153	51.57812
40.1	95.9	1.33	-11.93	-3.53	95.754	1.389	5	2.03648	123.4842	2.35722	0.26208	2.0951	44.578	1.424	-0.012	5	0.8002	0.5789	2.2338	51.09673
40.2	95.7	1.34	-11.97	-3.52	95.5535	1.4024	5	2.03994	123.5339	2.3634	0.2652	2.0982	44.414	1.4379	-0.012	5	0.8019	0.5775	2.238	50.86404
40.3	95.4	1.37	-11.84	-3.52	95.2551	1.4382	5	2.04831	123.6883	2.36958	0.26832	2.1013	44.205	1.4749	-0.012	5	0.8056	0.5754	2.2471	50.51218
40.4	98.2	1.41	-11.86	-3.52	98.0548	1.438	5	2.03897	123.9695	2.37578	0.27144	2.1043	45.467	1.4737	-0.012	5	0.8016	0.5763	2.2363	52.11285
40.5	107.6	1.47	-11.7	-3.53	107.457	1.368	6	1.99504	124.4977	2.38201	0.27456	2.1075	49.859	1.399	-0.011	5	0.7827	0.5832	2.1864	57.91025
40.6	124.6	1.48	-11.58	-3.53	124.458	1.1892	6	1.9069	124.9056	2.38825	0.27768	2.1106	57.837	1.2124	-0.009	5	0.7456	0.5976	2.0884	68.94536
40.7	140.1	1.59	-11.58	-3.52	139.958	1.1361	6	1.85612	125.7164	2.39454	0.2808	2.1137	65.081	1.1558	-0.008	6	0.7236	0.6061	2.0302	78.80049
40.8	152.6	1.72	-11.53	-3.53	152.459	1.1282	6	1.8272	126.5001	2.40086	0.28392	2.1169	70.884	1.1462	-0.007	6	0.7108	0.6109	1.9961	86.62976
40.9	164	1.84	-11.51	-3.54	163.859	1.1229	6	1.80342	127.1695	2.40722	0.28704	2.1202	76.15	1.1397	-0.007	6	0.7003	0.6147	1.9682	93.78815
41	172.6	1.93	-11.56	-3.52	172.459	1.1191	6	1.78668	127.6437	2.4136	0.29016	2.1234	80.08	1.135	-0.007	6	0.693	0.6171	1.9486	99.17646
41.1	179.3	2.04	-11.48	-3.55	179.159	1.1387	6	1.78044	128.1422	2.42001	0.29328	2.1267	83.104	1.1542	-0.006	6	0.69	0.6177	1.9405	103.1831
41.2	184.5	2.15	-11.38	-3.54	184.361	1.1662	6	1.77929	128.5963	2.42644	0.2964	2.13	85.413	1.1818	-0.006	6	0.6892	0.6174	1.938	106.1597
41.3	187	2.23	-11.36	-3.54	186.861	1.1934	6	1.78253	128.8964	2.43289	0.29952	2.1334	86.449	1.2091	-0.006	6	0.6905	0.6162	1.9409	107.4044
41.4	186.3	2.17	-11.3	-3.54	186.162	1.1657	6	1.77623	128.6877	2.43932	0.30264	2.1367	85.985	1.1811	-0.006	6	0.6885	0.6164	1.9352	107.0296
41.5	184.2	1.95	-11.28	-3.55	184.062	1.0594	6	1.74987	127.8779	2.44571	0.30576	2.14	84.869	1.0737	-0.006	6	0.6789	0.6199	1.9097	106.4036
41.6	181.9	2.02	-11.28	-3.56	181.762	1.1113	6	1.76852	128.1053	2.45212	0.30888	2.1432	83.663	1.1265	-0.006	6	0.6867	0.6159	1.9298	104.3682
41.7	176.2	2.05	-11.28	-3.56	176.062	1.1644	6	1.79268	128.1354	2.45853	0.312	2.1465	80.876	1.1809	-0.006	6	0.6971	0.6107	1.9565	100.204
41.8	168.8	2.04	-10.92	-3.57	168.666	1.2095	6	1.81751	127.995	2.46493	0.31512	2.1498	77.31	1.2274	-0.007	6	0.708	0.6054	1.9847	95.09313
41.9	166	2	-10.77	-3.58	165.868	1.2058	6	1.82163	127.8093	2.47132	0.31824	2.1531	75.89	1.224	-0.007	6	0.7103	0.6038	1.9904	93.23475
42	165.2	1.99	-10.76	-3.58	165.068	1.2056	6	1.82304	127.7608	2.4777	0.32136	2.1563	75.401	1.2239	-0.007	6	0.7113	0.6027	1.9926	92.60966
42.1	165.1	2	-10.76	-3.59	164.968	1.2124	6	1.82497	127.796	2.48409	0.32448	2.1596	75.238	1.2309	-0.007	6	0.7123	0.6016	1.995	92.37798
42.2	168.1	2.02	-10.76	-3.58	167.968	1.2026	6	1.81699	127.9128	2.49049	0.3276	2.1629	76.508	1.2207	-0.007	6	0.7092	0.6023	1.9863	94.19171
42.3	172.3	2.04	-10.7	-3.59	172.169	1.1849	6	1.80488	128.0451	2.49689	0.33072	2.1662	78.328	1.2023	-0.006	6	0.7042	0.6038	1.9729	96.81584

42.4	178.5	2.09	-10.68	-3.6	178.369	1.1717	6	1.79071	128.3086	2.50331	0.33384	2.1695	81.064	1.1884	-0.006	6	0.6983	0.6057	1.9569	100.6731
42.5	187.7	2.15	-10.68	-3.58	187.569	1.1462	6	1.7687	128.6384	2.50974	0.33696	2.1728	85.172	1.1618	-0.006	6	0.6889	0.6091	1.9319	106.5362
42.6	196.9	2.25	-10.68	-3.59	196.769	1.1435	6	1.75363	129.0878	2.51619	0.34008	2.1761	89.266	1.1583	-0.006	6	0.6823	0.6114	1.9142	112.2437
42.7	203	2.36	-10.62	-3.6	202.87	1.1633	6	1.75006	129.5115	2.52267	0.3432	2.1795	91.925	1.178	-0.006	6	0.6806	0.6115	1.9091	115.7916
42.8	206.7	2.43	-10.6	-3.58	206.57	1.1764	6	1.74832	129.7695	2.52916	0.34632	2.1828	93.475	1.1909	-0.005	6	0.6798	0.6112	1.9067	117.8686
42.9	209	2.46	-10.6	-3.56	208.87	1.1778	6	1.74546	129.8863	2.53565	0.34944	2.1862	94.38	1.1922	-0.005	6	0.6788	0.6111	1.9035	119.158
43	208	2.47	-10.54	-3.58	207.871	1.1882	6	1.74971	129.9042	2.54215	0.35256	2.1896	93.775	1.203	-0.005	6	0.6808	0.6095	1.9086	118.275
43.1	204.3	2.46	-10.53	-3.56	204.171	1.2049	6	1.75942	129.8308	2.54864	0.35568	2.193	91.941	1.2201	-0.006	6	0.6853	0.6069	1.9199	115.64
43.2	201.1	2.42	-10.47	-3.57	200.972	1.2042	6	1.76386	129.6723	2.55512	0.3588	2.1963	90.34	1.2197	-0.006	6	0.6877	0.6052	1.9258	113.4823
43.3	200	2.36	-10.45	-3.58	199.872	1.1808	6	1.7592	129.4752	2.5616	0.36192	2.1997	89.7	1.1961	-0.006	6	0.6864	0.6051	1.9219	112.8412
43.4	199.3	2.3	-10.45	-3.58	199.172	1.1548	6	1.75315	129.2782	2.56806	0.36504	2.203	89.243	1.1699	-0.006	6	0.6845	0.6054	1.9164	112.4778
43.5	199.9	2.28	-10.45	-3.58	199.772	1.1413	6	1.74854	129.2217	2.57452	0.36816	2.2064	89.377	1.1562	-0.006	6	0.683	0.6054	1.912	112.8267
43.6	201.2	2.31	-10.45	-3.56	201.072	1.1488	6	1.74871	129.3331	2.58099	0.37128	2.2097	89.827	1.1638	-0.006	6	0.6832	0.6047	1.9122	113.43
43.7	203.5	2.32	-10.45	-3.57	203.372	1.1408	6	1.7431	129.3925	2.58746	0.3744	2.2131	90.727	1.1555	-0.006	6	0.6811	0.605	1.9062	114.8004
43.8	203	2.32	-10.39	-3.58	202.873	1.1436	6	1.74461	129.3865	2.59393	0.37752	2.2164	90.362	1.1584	-0.006	6	0.682	0.6039	1.9083	114.312
43.9	197.8	2.31	-10.38	-3.58	197.673	1.1686	6	1.75917	129.2915	2.60039	0.38064	2.2198	87.88	1.1842	-0.006	6	0.6886	0.6004	1.9251	110.6874
44	194.7	2.27	-10.38	-3.59	194.573	1.1667	6	1.76333	129.1252	2.60685	0.38376	2.2231	86.351	1.1825	-0.006	6	0.6909	0.5987	1.9308	108.6257
44.1	193.8	2.22	-10.32	-3.58	193.674	1.1463	6	1.75913	128.9509	2.6133	0.38688	2.2264	85.815	1.1619	-0.006	6	0.6897	0.5987	1.9273	108.0961
44.2	192.2	2.21	-10.3	-3.6	192.074	1.1506	6	1.76279	128.8976	2.61974	0.39	2.2297	84.967	1.1665	-0.006	6	0.6917	0.5972	1.9319	106.9226
44.3	190.2	2.23	-10.23	-3.58	190.075	1.1732	6	1.77206	128.938	2.62619	0.39312	2.2331	83.942	1.1897	-0.006	6	0.6958	0.5947	1.9424	105.3551
44.4	189.3	2.14	-10.16	-3.6	189.176	1.1312	6	1.762	128.625	2.63262	0.39624	2.2364	83.413	1.1472	-0.006	6	0.6924	0.5956	1.933	105.0067
44.5	190.3	1.97	-10.15	-3.6	190.176	1.0359	6	1.73295	128.0323	2.63902	0.39936	2.2397	83.734	1.0505	-0.006	6	0.6814	0.5999	1.9038	106.3297
44.6	193.9	2.11	-10.15	-3.58	193.776	1.0889	6	1.74282	128.5803	2.64545	0.40248	2.243	85.213	1.104	-0.006	6	0.6851	0.5977	1.9129	107.9627
44.7	199.2	2.21	-10.15	-3.58	199.076	1.1101	6	1.74081	128.985	2.6519	0.4056	2.2463	87.443	1.1251	-0.006	6	0.6839	0.5976	1.9096	110.9341
44.8	204.1	2.28	-9.56	-3.58	203.983	1.1177	6	1.73573	129.2725	2.65836	0.40872	2.2496	89.492	1.1325	-0.005	6	0.6817	0.598	1.9033	113.7783
44.9	210.6	2.35	-9.46	-3.58	210.484	1.1165	6	1.7261	129.5703	2.66484	0.41184	2.253	92.241	1.1308	-0.005	6	0.6775	0.5993	1.8919	117.6991
45	214	2.43	-9.48	-3.56	213.884	1.1361	6	1.72697	129.8543	2.67133	0.41496	2.2564	93.607	1.1505	-0.005	6	0.6778	0.5985	1.8922	119.4764
45.1	212.7	2.47	-9.48	-3.56	212.584	1.1619	6	1.73596	129.9589	2.67783	0.41808	2.2598	92.889	1.1767	-0.005	6	0.6817	0.5962	1.9021	118.2644
45.2	209.4	2.47	-9.41	-3.54	209.285	1.1802	6	1.74555	129.9208	2.68433	0.4212	2.2631	91.29	1.1955	-0.005	6	0.6861	0.5936	1.9132	115.8952
45.3	205.4	2.43	-9.47	-3.54	205.284	1.1837	6	1.75215	129.7542	2.69082	0.42432	2.2665	89.386	1.1995	-0.005	6	0.6894	0.5915	1.9216	113.2426
45.4	200.4	2.38	-9.41	-3.54	200.285	1.1883	6	1.76063	129.542	2.69729	0.42744	2.2699	87.049	1.2045	-0.006	6	0.6937	0.589	1.9322	109.9785
45.5	194.9	2.32	-9.4	-3.54	194.785	1.1911	6	1.76958	129.2872	2.70376	0.43056	2.2732	84.498	1.2078	-0.006	6	0.6981	0.5863	1.9435	106.4399
45.6	188	2.23	-9.4	-3.52	187.885	1.1869	6	1.77917	128.9098	2.7102	0.43368	2.2765	81.341	1.2043	-0.006	6	0.7031	0.5835	1.956	102.1212
45.7	183.2	2.14	-9.4	-3.52	183.085	1.1689	6	1.78209	128.5452	2.71663	0.4368	2.2798	79.115	1.1865	-0.006	6	0.7052	0.582	1.9612	99.20787
45.8	175.5	2.1	-9.33	-3.52	175.386	1.1974	6	1.80256	128.3024	2.72304	0.43992	2.2831	75.626	1.2162	-0.006	6	0.7145	0.5773	1.9852	94.19625
45.9	166.7	2.03	-9.33	-3.52	166.586	1.2186	6	1.8236	127.9288	2.72944	0.44304	2.2864	71.666	1.2389	-0.007	6	0.7242	0.5723	2.0104	88.63112
46	157.3	1.94	-9.4	-3.52	157.185	1.2342	6	1.84523	127.4553	2.73581	0.44616	2.2897	67.455	1.2561	-0.007	6	0.7344	0.5673	2.0368	82.80335
46.1	149.7	1.84	-9.33	-3.52	149.586	1.2301	6	1.8594	126.9472	2.74216	0.44928	2.2929	64.043	1.253	-0.008	5	0.7415	0.5636	2.055	78.21336
46.2	143.8	1.8	-9.33	-3.52	143.686	1.2527	6	1.8774	126.6882	2.7485	0.4524	2.2961	61.381	1.2772	-0.008	5	0.7499	0.5594	2.0765	74.50653
46.3	139.7	1.81	-9.4	-3.52	139.585	1.2967	6	1.89687	126.6581	2.75483	0.45552	2.2993	59.509	1.3228	-0.008	5	0.7585	0.5551	2.0987	71.77845
46.4	139.1	1.79	-9.48	-3.5	138.984	1.2879	6	1.89614	126.5663	2.76116	0.45864	2.3025	59.163	1.314	-0.008	5	0.7586	0.5544	2.0988	71.37505
46.5	138.6	1.81	-9.46	-3.5	138.484	1.307	6	1.90174	126.6388	2.76749	0.46176	2.3057	58.861	1.3337	-0.008	5	0.7612	0.5527	2.1051	70.89203
46.6	141.8	1.82	-9.4	-3.51	141.685	1.2845	6	1.88938	126.7349	2.77383	0.46488	2.309	60.162	1.3102	-0.008	5	0.7562	0.5543	2.0915	72.76969
46.7	147.3	1.85	-9.38	-3.51	147.185	1.2569	6	1.87099	126.9474	2.78017	0.468	2.3122	62.454	1.2811	-0.008	5	0.7484	0.5571	2.0706	76.02925
46.8	152.8	1.88	-9.34	-3.5	152.686	1.2313	6	1.85339	127.1546	2.78653	0.47112	2.3154	64.74	1.2542	-0.008	5	0.741	0.5598	2.0507	79.3001
46.9	158.7	1.93	-9.44	-3.52	158.584	1.217	6	1.83819	127.4391	2.7929	0.47424	2.3187	67.19	1.2388	-0.007	6	0.7344	0.5621	2.0331	82.75587
47	162.6	2.02	-9.62	-3.51	162.482	1.2432	6	1.83738	127.8318	2.79929	0.47736	2.3219	68.772	1.265	-0.007	6	0.7338	0.5618	2.031	84.7782
47.1	165.6	2.09	-9.85	-3.52	165.479	1.263	6	1.83677	128.1257	2.8057	0.48048	2.3252	69.961	1.2848	-0.007	6	0.7334	0.5614	2.0295	86.30407
47.2	168.7	2.18	-10	-3.52	168.578	1.2932	6	1.8386	128.4794	2.81212	0.4836	2.3285	71.189	1.3151	-0.007	6	0.7339	0.5606	2.0305	87.81656
47.3	172	2.24	-10.08	-3.52	171.877	1.3033	6	1.83526	128.7253	2.81856	0.48672	2.3318	72.5	1.325	-0.007	6	0.7324	0.5606	2.0262	89.57225
47.4	176.1	2.25	-10.12	-3.52	175.976	1.2786	6	1.8222	128.8154	2.825	0.48984	2.3352	74.15	1.2994	-0.007	6	0.7271	0.5624	2.0117	92.03284
47.5	180.9	1.91	-10.15	-3.52	180.776	1.0566	6	1.75454	127.6823	2.83139	0.49296	2.3384	76.096	1.0734	-0.007	6	0.7007	0.5737	1.942	96.48267
47.6	186.3	2.08	-10.27	-3.52	186.174	1.1172	6	1.76291	128.378	2.8378	0.49608	2.3417	78.291	1.1345	-0.007	6	0.7034	0.5719	1.9488	99.09235
47.7	191.2	2.21	-10.34	-3.52	191.073	1.1566	6	1.766	128.8849	2.84425	0.4992	2.3451	80.267	1.1741	-0.007	6	0.7042	0.571	1.9505	101.5703
47.8	193.6	2.3	-10.28	-3.53	193.474	1.1888	6	1.77097	129.2074	2.85071	0.50232	2.3484	81.172	1.2066	-0.007	6	0.7061	0.5695	1.9551	102.6042
47.9	191.5	2.4	-10.28	-3.53	191.374	1.2541	6	1.79123	129.4922	2.85718	0.50544	2.3517	80.161	1.2731	-0.007	6	0.7145	0.5652	1.9767	100.6904
48	181.9	2.41	-10.36	-3.53	181.773	1.3258	6	1.82414	129.3971	2.86365	0.50856	2.3551	75.967	1.3471	-0.007	6	0.7289	0.5581	2.014	94.3705
48.1	170.5	2.34	-10.43	-3.54	170.372	1.3735	6	1.8545	129.0234	2.8701	0.51168	2.3584	71.023	1.397	-0.008	5	0.7426	0.5514	2.0498	87.29351
48.2	157.6	2.2	-10.5	-3.54	157.471	1.3971	6	1.88332	128.38	2.87652	0.5148	2.3617	65.459	1.4231	-0.008	5	0.7563	0.5449	2.0851	79.6092
48.3	145.6	1.99	-10.53	-3.53	145.471	1.368	6	1.90066	127.4526	2.8829	0.51792	2.365	60.292	1.3956	-0.009	5	0.7655	0.5403	2.109	72.80645
48.4	138.5	1.83	-10.53	-3.52	138.371	1.3225	6	1.90559	126.7172	2.88923	0.52104	2.3682	57.209	1.3507	-0.009	5	0.7692	0.5381	2.1182	68.90192
48.5	132.5	1.78	-10.49	-3.52	132.372	1.3447	6	1.92437	126.4064	2.89555	0.52416	2.3714	54.599	1.3748	-0.01	5	0.778	0.5337	2.141	65.31188
48.6	124.5	1.74	-10.45	-3.52	124.372	1.399	6	1.95575	126.0881	2.90186	0.52728	2.3746	51.154	1.4325	-0.011	5	0.7922	0.5271	2.178	60.50972
48.7	111.7	1.69	-10.49	-3.52	111.572	1.5147	6	2.01362	125.6099	2.90814	0.5304	2.3777	45.7	1.5553	-0.012	5	0.8181	0.5156	2.2455	52.95355
48.8	95.6	1.64	-10.53	-3.52	95.4711	1.7178	5	2.10027	125.01	2.91439	0.53352	2.3809	38.875	1.7719	-0.014	5	0.8565	0.4993	2.3462	43.67164
48.9	86.5	1.49	-10.53	-3.53	86.3711	1.7251	5	2.13312	124.0638	2.92059	0.53664	2.384	35.005	1.7855	-0.016	5	0.8727	0.4922	2.3883	38.81718
49	82.4	1.34	-10.53	-3.55	82.2711	1.6288	5	2.13175	123.1689	2.92675	0.53976	2.387	33.24	1.6888	-0.016	5	0.8742	0.4911	2.3917	36.82326
49.1	75.8	1.35	-10.51	-3.55	75.6714	1.784	5	2.18522	123.0193	2.9329	0.54288	2.39	30.434	1.856	-0.018	5	0.8989	0.4807	2.4539	33.04654
49.2	67.1	1.57	-10.48	-3.52	66.9717	2.3443	5	2.30488	123.8261	2.93909	0.546	2.3931	26.757	2.4519	-0.02	4	0.949	0.461	2.5863	27.89484
49.3	50.8	1.78	-10.62	-3.52	50.67	3.5129	4	2.51414	124.0643	2.94529	0.54912	2.3962	19.917	3.7297	-0.028	3	1	0.4416	2.8147	19.91704
49.4	37.3	1.73	-10.66	-3.52	37.1695	4.6544	4	2.69576	123.1001	2.95145	0.55224	2.3992	14.262	5.0558	-0.039	3	1	0.441	3.0106	14.26223

49.5	30	1.6	-10.59	-3.52	29.8704	5.3565	3	2.80636	121.9953	2.95755	0.55536	2.4022	11.203	5.9451	-0.049	3	1	0.4405	3.1363	11.20346
49.6	29.1	1.51	-10.51	-3.52	28.9714	5.212	3	2.80772	121.4972	2.96362	0.55848	2.4051	10.813	5.806	-0.051	3	1	0.4399	3.1417	10.81338
49.7	41.3	1.48	-10.28	-3.52	41.1742	3.5945	4	2.58591	122.2077	2.96973	0.5616	2.4081	15.865	3.8739	-0.034	3	1	0.4394	2.9018	15.86474
49.8	61.5	1.43	-9.93	-3.52	61.3785	2.3298	5	2.33062	122.93	2.97588	0.56472	2.4112	24.222	2.4485	-0.022	4	0.9641	0.452	2.6241	24.94907
49.9	75.6	1.32	-9.94	-3.52	75.4783	1.7489	5	2.18023	122.8486	2.98202	0.56784	2.4142	30.029	1.8208	-0.018	5	0.8999	0.476	2.4535	32.61354
50	86.1	0	-10.1	-3.5	85.9764	0	0	0	120.9	2.98807	0.57096	2.4171	34.334	0	-0.016	0	1	0.4378	0	0

	CPT-6	In situ data									Basic output data								
Depth (ft)	qc (tsf)	fs (tsf)	u (psi)	Other	qt (tsf)	Rf(%)	SBT	Ic SBT	ã (pcf)	ó,v (tsf)	u0 (tsf)	ó',vo (tsf)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.1	2.7	0	-0.02	0.07	2.69976	0	0	0	120.9	0.00605	0	0.0061	445.61	0	-5E-04	0	1	175.04	0	0
0.2	7.1	0	-0.04	0.04	7.09951	0	0	0	120.9	0.01209	0	0.0121	586.22	0	-4E-04	0	1	87.519	0	0
0.3	18.3	0.11	-0.04	0.01	18.2995	0.6011	5	2.44543	101.2106	0.01715	0	0.0172	1066	0.6017	-2E-04	6	0.495	7.6927	1.6768	132.9175
0.4	29.7	0.17	-0.04	-0.36	29.6995	0.5724	5	2.24577	105.5769	0.02243	0	0.0224	1323.1	0.5728	-1E-04	6	0.4594	5.8731	1.5897	164.7258
0.5	50.1	0.18	-0.04	-0.74	50.0995	0.3593	6	1.95506	107.2705	0.02779	0	0.0278	1801.6	0.3595	-6E-05	6	0.3912	4.1521	1.4093	196.4842
0.6	70.5	0.25	-0.04	-1.86	70.4995	0.3546	6	1.81741	110.5073	0.03332	0	0.0333	2114.9	0.3548	-4E-05	6	0.3611	3.4857	1.3462	232.1326
0.7	87.2	0.32	-0.04	-1.53	87.1995	0.367	6	1.74087	112.8321	0.03896	0	0.039	2237.2	0.3671	-3E-05	7	0.35	3.1757	1.3128	261.5973
0.8	98.2	0.39	-0.04	-1.25	98.1995	0.3972	6	1.71113	114.5693	0.04469	0	0.0447	2196.4	0.3973	-3E-05	7	0.3529	3.0544	1.3064	283.3431
0.9	105	0.5	-0.04	-1.23	105	0.4762	6	1.72533	116.5506	0.05052	0	0.0505	2077.5	0.4764	-3E-05	6	0.3641	3.0265	1.3385	300.185
1	116.9	0.55	-0.04	-1.42	116.9	0.4705	6	1.6829	117.5098	0.05639	0	0.0564	2072	0.4707	-2E-05	7	0.3569	2.8475	1.3201	314.4432
1.1	134.3	0.52	-0.04	-1.47	134.3	0.3872	6	1.58744	117.4379	0.06226	0	0.0623	2156	0.3874	-2E-05	7	0.3319	2.5607	1.2536	324.8625
1.2	148.7	0.47	-0.04	-1.49	148.7	0.3161	6	1.50544	116.9466	0.06811	0	0.0681	2182.2	0.3162	-2E-05	7	0.3099	2.3398	1.1946	328.6726
1.3	156	0.39	-0.11	-1.41	155.999	0.25	6	1.44067	115.6982	0.0739	0	0.0739	2110.1	0.2501	-5E-05	7	0.2918	2.1742	1.1454	320.3997
1.4	160.3	0.4	-0.15	-1.47	160.298	0.2495	6	1.42966	115.9497	0.07969	0	0.0797	2010.4	0.2497	-7E-05	7	0.2912	2.1232	1.1437	321.4979
1.5	162.5	0.47	-0.19	-1.48	162.498	0.2892	6	1.45325	117.163	0.08555	0	0.0856	1898.4	0.2894	-8E-05	7	0.2987	2.1196	1.1754	325.3378
1.6	162.1	0.5	-0.19	-1.45	162.098	0.3085	6	1.4675	117.6097	0.09143	0	0.0914	1771.9	0.3086	-8E-05	7	0.3063	2.1171	1.1931	324.1395
1.7	158.5	0.52	-0.19	-1.49	158.498	0.3281	6	1.4891	117.8419	0.09732	0	0.0973	1627.6	0.3283	-9E-05	7	0.3157	2.124	1.2159	317.9651
1.8	152.3	0.51	-0.19	-1.49	152.298	0.3349	6	1.50856	117.6025	0.1032	0	0.1032	1474.7	0.3351	-9E-05	7	0.3235	2.1235	1.2352	305.4326
1.9	144.7	0.51	-0.19	-1.48	144.698	0.3525	6	1.53889	117.4777	0.10908	0	0.1091	1325.6	0.3527	-9E-05	7	0.3349	2.1404	1.2636	292.4815
2	135	0.53	-0.2	-1.49	134.998	0.3926	6	1.58857	117.5899	0.11496	0	0.115	1173.3	0.3929	-1E-04	7	0.3527	2.1878	1.3088	278.889
2.1	123.3	0.54	-0.27	-1.5	123.297	0.438	6	1.64685	117.5055	0.12083	0	0.1208	1019.4	0.4384	-2E-04	6	0.3729	2.246	1.3604	261.4594
2.2	110.6	0.5	-0.36	-1.51	110.596	0.4521	6	1.69435	116.6772	0.12667	0	0.1267	872.13	0.4526	-2E-04	6	0.3886	2.2815	1.4006	238.1893
2.3	100.6	0.44	-0.56	-1.51	100.593	0.4374	6	1.72252	115.5107	0.13244	0	0.1324	758.53	0.438	-4E-04	6	0.3977	2.2851	1.4238	216.9572
2.4	89.3	0.35	-0.76	-1.51	89.2907	0.392	6	1.74484	113.5455	0.13812	0	0.1381	645.48	0.3926	-6E-04	6	0.4038	2.2756	1.4395	191.7347
2.5	77.3	0.27	-1.09	-1.51	77.2867	0.3494	6	1.77853	111.2946	0.14368	0	0.1437	536.89	0.35	-0.001	6	0.4133	2.2825	1.464	166.4107
2.6	70.4	0.24	-1.02	-1.51	70.3875	0.341	6	1.81088	110.2047	0.14919	0	0.1492	470.78	0.3417	-0.001	6	0.4241	2.2953	1.4915	152.3658
2.7	66.2	0.21	-1.16	-1.55	66.1858	0.3173	6	1.82263	109.0775	0.15465	0	0.1547	426.98	0.318	-0.001	6	0.4284	2.2794	1.5021	142.248
2.8	62.5	0.17	-1.04	-1.54	62.4873	0.2721	6	1.82052	107.3911	0.16002	0	0.16	389.5	0.2728	-0.001	6	0.4278	2.2435	1.4999	132.1547
2.9	57.5	0.12	-1.08	-1.55	57.4868	0.2087	6	1.81694	104.6391	0.16525	0	0.1653	346.88	0.2094	-0.001	6	0.4257	2.2045	1.4942	119.4238
3	53.3	0.11	-1.09	-1.55	53.2867	0.2064	6	1.84702	103.8174	0.17044	0	0.1704	311.64	0.2071	-0.001	6	0.4363	2.2179	1.521	111.3389
3.1	50.2	0.1	-1.09	-1.55	50.1867	0.1993	6	1.86762	102.9739	0.17559	0	0.1756	284.82	0.2	-0.002	6	0.4439	2.2193	1.54	104.8958
3.2	48.6	0.11	-1.09	-1.55	48.5867	0.2264	6	1.89721	103.5922	0.18077	0	0.1808	267.78	0.2273	-0.002	6	0.4556	2.2368	1.5697	102.3277
3.3	48.2	0.15	-1.09	-1.56	48.1867	0.3113	6	1.94692	105.8415	0.18606	0	0.1861	257.98	0.3125	-0.002	6	0.4755	2.2852	1.6205	103.6687
3.4	48.6	0.18	-1.09	-1.57	48.5867	0.3705	6	1.97257	107.1957	0.19142	0	0.1914	252.82	0.3719	-0.002	6	0.4894	2.3088	1.6483	105.5991
3.5	49	0.16	-1.09	-1.55	48.9867	0.3266	6	1.94804	106.3539	0.19674	0	0.1967	247.99	0.3279	-0.002	6	0.4825	2.2517	1.6293	103.8256
3.6	48.5	0.15	-1.09	-1.53	48.4867	0.3094	6	1.94343	105.8566	0.20203	0	0.202	239	0.3107	-0.002	6	0.4822	2.2219	1.6281	101.3936
3.7	47.7	0.17	-1.09	-1.53	47.6867	0.3565	6	1.97342	106.7318	0.20737	0	0.2074	228.96	0.3581	-0.002	6	0.4942	2.2375	1.6598	100.3985
3.8	47.2	0.17	-1.09	-1.53	47.1867	0.3603	6	1.97943	106.7061	0.2127	0	0.2127	220.84	0.3619	-0.002	6	0.4977	2.222	1.6687	98.64578
3.9	46.6	0.16	-1.09	-1.53	46.5867	0.3435	6	1.97651	106.2313	0.21801	0	0.218	212.69	0.3451	-0.002	6	0.4979	2.1957	1.6688	96.21986
4	44.8	0.17	-1.09	-1.53	44.7867	0.3796	6	2.00921	106.5788	0.22334	0	0.2233	199.53	0.3815	-0.002	6	0.5103	2.2119	1.7014	93.15652
4.1	43.5	0.14	-1.09	-1.52	43.4867	0.3219	6	1.99375	105.0863	0.2286	0	0.2286	189.23	0.3236	-0.002	6	0.5056	2.1699	1.6881	88.71148
4.2	42.7	0.16	-1.16	-1.53	42.6858	0.3748	6	2.02623	106.018	0.2339	0	0.2339	181.5	0.3769	-0.002	6	0.5185	2.1871	1.7219	87.74784
4.3	41.7	0.18	-1.17	-1.53	41.6857	0.4318	6	2.06044	106.822	0.23924	0	0.2392	173.24	0.4343	-0.002	6	0.532	2.2054	1.7572	86.38612
4.4	40.5	0.2	-1.17	-1.52	40.4857	0.494	5	2.09679	107.5217	0.24462	0	0.2446	164.51	0.497	-0.002	6	0.5461	2.2252	1.7942	84.62734
4.5	39.2	0.22	-1.17	-1.53	39.1857	0.5614	5	2.13421	108.1395	0.25002	0	0.25	155.73	0.565	-0.002	6	0.5607	2.2454	1.832	82.62598
4.6	39	0.21	-1.13	-1.53	38.9862	0.5387	5	2.12809	107.7867	0.25541	0	0.2554	151.64	0.5422	-0.002	6	0.5599	2.2163	1.8294	81.12408
4.7	40.6	0.19	-1.06	-1.55	40.587	0.4681	5	2.08573	107.1525	0.26077	0	0.2608	154.64	0.4712	-0.002	6	0.5469	2.151	1.7944	81.97755
4.8	42.7	0.18	-0.99	-1.56	42.6879	0.4217	6	2.04678	106.88	0.26611	0	0.2661	159.41	0.4243	-0.002	6	0.5352	2.0934	1.7632	83.9298
4.9	43	0.2	-0.92	-1.53	42.9887	0.4652	6	2.06202	107.668	0.2715	0	0.2715	157.34	0.4682	-0.002	6	0.5425	2.0916	1.7819	84.44244
5	40.6	0.18	-0.89	-1.54	40.5891	0.4435	6	2.07579	106.757	0.27684	0	0.2768	145.62	0.4465	-0.002	6	0.5477	2.0842	1.795	79.40573
5.1	36	0.14	-0.94	-1.55	35.9885	0.389	5	2.10079	104.6247	0.28207	0	0.2821	126.59	0.3921	-0.002	6	0.5557	2.0848	1.8152	70.35138
5.2	32.5	0.14	-0.93	-1.56	32.4886	0.4309	5	2.15905	104.3752	0.28729	0	0.2873	112.09	0.4348	-0.002	6	0.5764	2.12	1.869	64.518
5.3	29.6	0.13	-0.87	-1.6	29.5894	0.4394	5	2.19967	103.605	0.29247	0	0.2925	100.17	0.4437	-0.002	6	0.5908	2.1376	1.9064	59.18555
5.4	27.9	0.13	-0.79	-1.6	27.8903	0.4661	5	2.23341	103.4607	0.29764	0	0.2976	92.705	0.4711	-0.002	6	0.6035	2.1499	1.9392	56.06383
5.5	28.1	0.13	-0.72	-1.59	28.0912	0.4628	5	2.22931	103.4782	0.30281	0	0.3028	91.768	0.4678	-0.002	6	0.6036	2.128	1.9391	55.88716
5.6	28.2	0.12	-0.86	-1.57	28.1895	0.4257	5	2.21375	102.9011	0.30796	0	0.308	90.537	0.4304	-0.002	6	0.5994	2.0956	1.9274	55.21946
5.7	28.2	0.11	-0.65	-1.57	28.192	0.3902	5	2.19949	102.2647	0.31307	0	0.3131	89.05	0.3946	-0.002	6	0.5956	2.0654	1.9167	54.41766
5.8	28.2	0.1	-0.72	-1.58	28.1912	0.3547	5	2.18457	101.5672	0.31815	0	0.3182	87.61	0.3588	-0.002	6	0.5915	2.0356	1.9053	53.62247
5.9	28.4	0.1	-0.72	-1.59	28.3912	0.3522	5	2.18062	101.5844	0.32323	0	0.3232	86.836	0.3563	-0.002	6	0.5916	2.0168	1.905	53.49979
6	28.1	0.08	-0.71	-1.57	28.0913	0.2848	5	2.15428	99.9258	0.32822	0	0.3282	84.586	0.2882	-0.002	6	0.583	1.9786	1.8817	51.91516
6.1	27.8	0.07	-0.39	-1.59	27.7952	0.2518	5	2.14257	98.9229	0.33317	0	0.3332	82.426	0.2549	-0.001	6	0.5798	1.9542	1.8727	50.71815
6.2	27.2	0.07	-0.6	-1.61	27.1927	0.2574	5	2.15445	98.86945	0.33811	0	0.3381	79.425	0.2607	-0.002	6	0.5851	1.9493	1.8861	49.47349
6.3	25.5	0.08	-0.47	-1.6	25.4943	0.3138	5	2.20764	99.68919	0.3431	0	0.3431	73.306	0.3181	-0.001	6	0.6049	1.9764	1.9378	46.97962
6.4	23.5	0.08	-0.36	-1.59	23.4956	0.3405	5	2.2528	99.49008	0.34807	0	0.3481	66.502	0.3456	-0.001	6	0.6215	1.9958	1.9809	43.66087
6.5	22.5	0.08	-0.34	-1.59	22.4958	0.3556	5	2.27693	99.38402	0.35304	0	0.353	62.72	0.3613	-0.001	6	0.6311	1.9992	2.0055	41.8358
6.6	22.3	0.09	-0.46	-1.59	22.2944	0.4037	5	2.29981	100.2239	0.35805	0	0.3581	61.265	0.4103	-0.002	6	0.6409	2.0025	2.0306	41.51544
6.7	22.5	0.1	-0.57	-1.59	22.493	0.4446	5	2.31162	101.0165	0.3631	0	0.3631	60.946	0.4519	-0.002	6	0.6468	1.9973	2.0457	41.77358
6.8	22.6	0.11	-0.54	-1.58	22.5934	0.4869	5	2.32494	101.7247	0.36819	0	0.3682	60.363	0.4949	-0.002	6	0.6518	1.9898	2.0627	41.79466

6.9	22.8	0.11	-0.52	-1.57	22.7936	0.4826	5	2.31992	101.7462	0.37328	0	0.3733	60.063	0.4906	-0.002	6	0.6515	1.9715	2.0612	41.77441
7	23.9	0.11	-0.57	-1.58	23.893	0.4604	5	2.29313	101.8611	0.37837	0	0.3784	62.147	0.4678	-0.002	6	0.6437	1.9386	2.0401	43.08174
7.1	26.2	0.12	-0.58	-1.59	26.1929	0.4581	5	2.25552	102.7219	0.38351	0	0.3835	67.298	0.465	-0.002	6	0.6326	1.9004	2.0104	46.35426
7.2	28.6	0.13	-0.64	-1.59	28.5922	0.4547	5	2.21922	103.5214	0.38868	0	0.3887	72.562	0.4609	-0.002	6	0.622	1.8643	1.9816	49.69229
7.3	28.6	0.15	-0.56	-1.59	28.5932	0.5246	5	2.24451	104.5685	0.39391	0	0.3939	71.588	0.5319	-0.001	6	0.6329	1.8689	2.0093	49.80835
7.4	25.9	0.16	-0.49	-1.61	25.894	0.6179	5	2.31385	104.7989	0.39915	0	0.3992	63.873	0.6276	-0.001	5	0.6587	1.9005	2.0758	45.7927
7.5	23.6	0.17	-0.42	-1.61	23.5949	0.7205	5	2.3797	105.0157	0.4044	0	0.4044	57.345	0.7331	-0.001	5	0.6833	1.9294	2.1394	42.28715
7.6	22.6	0.16	-0.41	-1.61	22.595	0.7081	5	2.3931	104.4665	0.40963	0	0.4096	54.16	0.7212	-0.001	5	0.689	1.923	2.1537	40.32004
7.7	22.1	0.14	-0.41	-1.6	22.095	0.6336	5	2.38069	103.4349	0.4148	0	0.4148	52.267	0.6458	-0.001	5	0.6854	1.8999	2.1435	38.92867
7.8	22	0.14	-0.41	-1.59	21.995	0.6365	5	2.38331	103.4238	0.41997	0	0.42	51.373	0.6489	-0.001	5	0.6877	1.8879	2.1488	38.49405
7.9	22.3	0.12	-0.37	-1.59	22.2955	0.5382	5	2.34755	102.329	0.42508	0	0.4251	51.449	0.5487	-0.001	5	0.6757	1.852	2.1169	38.2785
8	22.8	0.1	-0.38	-1.59	22.7954	0.4387	5	2.30407	101.049	0.43014	0	0.4301	51.996	0.4471	-0.001	6	0.661	1.813	2.0777	38.32084
8.1	23.5	0.12	-0.44	-1.58	23.4946	0.5108	5	2.31756	102.4568	0.43526	0	0.4353	52.978	0.5204	-0.001	5	0.6679	1.8099	2.0949	39.44345
8.2	24.3	0.12	-0.53	-1.57	24.2935	0.494	5	2.29845	102.5383	0.44039	0	0.4404	54.164	0.5031	-0.002	5	0.6625	1.7874	2.0801	40.29251
8.3	24.5	0.12	-0.57	-1.57	24.493	0.4899	5	2.29378	102.5583	0.44551	0	0.4455	53.977	0.499	-0.002	5	0.6622	1.7732	2.0785	40.29855
8.4	23.8	0.11	-0.67	-1.58	23.7918	0.4623	5	2.29554	101.8508	0.45061	0	0.4506	51.799	0.4713	-0.002	5	0.6637	1.7621	2.0818	38.87166
8.5	24.7	0.1	-1.27	-1.59	24.6845	0.4051	5	2.25914	101.2432	0.45567	0	0.4557	53.172	0.4127	-0.004	6	0.6517	1.7316	2.0498	39.65064
8.6	24.2	0.09	-1.38	-1.6	24.1831	0.3722	5	2.25425	100.4222	0.46069	0	0.4607	51.493	0.3794	-0.004	6	0.6508	1.718	2.0468	38.51645
8.7	23.5	0.1	-1.32	-1.61	23.4838	0.4258	5	2.28726	101.1216	0.46575	0	0.4658	49.422	0.4344	-0.004	5	0.6641	1.7246	2.0809	37.51594
8.8	22.7	0.11	-1.26	-1.6	22.6846	0.4849	5	2.32265	101.7345	0.47083	0	0.4708	47.18	0.4952	-0.004	5	0.6783	1.7319	2.1172	36.35924
8.9	22.4	0.12	-1.35	-1.59	22.3835	0.5361	5	2.34529	102.3386	0.47595	0	0.476	46.029	0.5478	-0.004	5	0.6879	1.7326	2.1417	35.8716
9	22.7	0.14	-1.39	-1.59	22.683	0.6172	5	2.36549	103.4989	0.48113	0	0.4811	46.146	0.6306	-0.005	5	0.697	1.7321	2.1648	36.3435
9.1	22.9	0.14	-1.39	-1.6	22.883	0.6118	5	2.36042	103.5203	0.4863	0	0.4863	46.055	0.6251	-0.004	5	0.6965	1.7185	2.1627	36.37467
9.2	22.8	0.14	-1.39	-1.61	22.783	0.6145	5	2.36295	103.5097	0.49148	0	0.4915	45.356	0.628	-0.004	5	0.6986	1.7087	2.1676	35.99739
9.3	22.7	0.14	-1.39	-1.61	22.683	0.6172	5	2.36549	103.4989	0.49665	0	0.4967	44.672	0.631	-0.005	5	0.7008	1.699	2.1726	35.62438
9.4	23.2	0.15	-1.38	-1.59	23.1831	0.647	5	2.36579	104.057	0.50185	0	0.5019	45.195	0.6613	-0.004	5	0.7024	1.6887	2.1762	36.19794
9.5	23.4	0.16	-1.24	-1.59	23.3848	0.6842	5	2.37309	104.5503	0.50708	0	0.5071	45.116	0.6994	-0.004	5	0.7065	1.6815	2.1862	36.35643
9.6	23.1	0.16	-1.24	-1.59	23.0848	0.6931	5	2.38061	104.5188	0.51231	0	0.5123	44.06	0.7088	-0.004	5	0.7104	1.6741	2.1958	35.71406
9.7	22.7	0.15	-1.29	-1.61	22.6842	0.6613	5	2.37841	104.0039	0.51751	0	0.5175	42.834	0.6767	-0.004	5	0.7106	1.6624	2.1957	34.8261
9.8	22	0.15	-1.32	-1.61	21.9838	0.6823	5	2.39663	103.9274	0.5227	0	0.5227	41.058	0.6989	-0.004	5	0.7184	1.6597	2.2153	33.66299
9.9	21.4	0.15	-1.28	-1.62	21.3843	0.7015	5	2.4127	103.86	0.5279	0	0.5279	39.508	0.7192	-0.004	5	0.7254	1.656	2.233	32.64175
10	21.5	0.17	-1.22	-1.63	21.4851	0.7913	5	2.43445	104.7872	0.53314	0	0.5331	39.299	0.8114	-0.004	5	0.7349	1.655	2.2573	32.77023
10.1	23.1	0.17	-1.12	-1.63	23.0863	0.7364	5	2.39242	104.9626	0.53839	0	0.5384	41.881	0.754	-0.004	5	0.721	1.6277	2.22	34.685
10.2	26.8	0.19	-0.96	-1.63	26.7883	0.7093	5	2.32753	106.1391	0.54369	0	0.5437	48.271	0.724	-0.003	5	0.6992	1.5929	2.1622	39.50947
10.3	31.3	0.21	-1.17	-1.61	31.2857	0.6712	5	2.2567	107.25	0.54905	0	0.5491	55.981	0.6832	-0.003	5	0.6753	1.5574	2.0987	45.23919
10.4	33	0.22	-1.23	-1.61	32.9849	0.667	5	2.23508	107.7194	0.55444	0	0.5544	58.492	0.6784	-0.003	5	0.6688	1.5407	2.081	47.22118
10.5	33.8	0.23	-1.24	-1.61	33.7848	0.6808	5	2.23007	108.1031	0.55985	0	0.5599	59.347	0.6923	-0.003	5	0.6683	1.5302	2.079	48.04958
10.6	35.5	0.24	-1.24	-1.61	35.4848	0.6764	5	2.20995	108.5342	0.56527	0	0.5653	61.775	0.6873	-0.003	6	0.6623	1.5147	2.0626	49.98837
10.7	37.5	0.25	-1.12	-1.6	37.4863	0.6669	5	2.18609	108.9667	0.57072	0	0.5707	64.682	0.6772	-0.002	6	0.655	1.4983	2.0427	52.27377
10.8	39	0.28	-0.96	-1.59	38.9883	0.7182	5	2.18676	109.8918	0.57622	0	0.5762	66.663	0.7289	-0.002	6	0.6567	1.4905	2.0466	54.11034
10.9	40.2	0.31	-0.85	-1.59	40.1896	0.7713	5	2.19082	110.7105	0.58175	0	0.5818	68.084	0.7827	-0.002	6	0.6597	1.4838	2.0535	55.54302
11	41.3	0.29	-0.81	-1.57	41.2901	0.7024	5	2.16032	110.2884	0.58727	0	0.5873	69.309	0.7125	-0.001	6	0.6495	1.4658	2.0261	56.38554
11.1	41.2	0.25	-0.87	-1.57	41.1894	0.607	5	2.13067	109.1965	0.59273	0	0.5927	68.491	0.6158	-0.002	6	0.6393	1.4485	1.9988	55.57278
11.2	39.6	0.27	-0.87	-1.57	39.5894	0.682	5	2.17	109.663	0.59821	0	0.5982	65.18	0.6925	-0.002	6	0.6549	1.4528	2.0388	53.53424
11.3	37.8	0.28	-0.94	-1.57	37.7885	0.741	5	2.20527	109.8155	0.6037	0	0.6037	61.595	0.753	-0.002	5	0.6688	1.4555	2.0748	51.14907
11.4	34	0.28	-1.09	-1.59	33.9867	0.8239	5	2.26813	109.5569	0.60918	0	0.6092	54.791	0.8389	-0.002	5	0.6928	1.4659	2.1368	46.24213
11.5	32.8	0.26	-1.09	-1.59	32.7867	0.793	5	2.27345	108.927	0.61462	0	0.6146	52.344	0.8082	-0.002	5	0.6956	1.4591	2.1435	44.36542
11.6	31.3	0.26	-1.15	-1.58	31.2859	0.831	5	2.30119	108.8127	0.62006	0	0.6201	49.456	0.8479	-0.003	5	0.7068	1.4589	2.1722	42.2826
11.7	30.2	0.25	-1.17	-1.57	30.1857	0.8282	5	2.31398	108.4384	0.62549	0	0.6255	47.26	0.8457	-0.003	5	0.7124	1.4543	2.1863	40.62874
11.8	28.7	0.24	-1.17	-1.57	28.6857	0.8367	5	2.33543	108.0154	0.63089	0	0.6309	44.469	0.8555	-0.003	5	0.7213	1.4521	2.2089	38.49988
11.9	26.7	0.23	-1.17	-1.57	26.6857	0.8619	5	2.36912	107.5277	0.63626	0	0.6363	40.941	0.8829	-0.003	5	0.7346	1.453	2.2433	35.77217
12	24.6	0.22	-1.17	-1.57	24.5857	0.8948	5	2.40814	107.0026	0.64161	0	0.6416	37.319	0.9188	-0.004	5	0.75	1.4553	2.2829	32.93183
12.1	22.3	0.2	-1.15	-1.57	22.2859	0.8974	5	2.4461	106.0657	0.64692	0	0.6469	33.449	0.9243	-0.004	5	0.765	1.457	2.3215	29.79682
12.2	20.2	0.18	-1.09	-1.57	20.1867	0.8917	5	2.48257	105.0534	0.65217	0	0.6522	29.953	0.9215	-0.004	5	0.7795	1.4582	2.3589	26.92103
12.3	19	0.16	-1.1	-1.57	18.9865	0.8427	5	2.49471	104.0421	0.65737	0	0.6574	27.883	0.8729	-0.004	5	0.7849	1.453	2.3726	25.16955
12.4	18.3	0.16	-1.16	-1.57	18.2858	0.875	5	2.51673	103.9504	0.66257	0	0.6626	26.598	0.9079	-0.005	5	0.7943	1.4504	2.3965	24.15668
12.5	17.8	0.15	-1.17	-1.57	17.7857	0.8434	5	2.52011	103.4105	0.66774	0	0.6677	25.636	0.8763	-0.005	5	0.7966	1.443	2.402	23.3446
12.6	17.6	0.15	-1.17	-1.57	17.5857	0.853	5	2.52672	103.383	0.67291	0	0.6729	25.134	0.8869	-0.005	5	0.8002	1.4365	2.4108	22.96106
12.7	17.1	0.15	-1.17	-1.57	17.0857	0.8779	5	2.54358	103.3126	0.67807	0	0.6781	24.197	0.9142	-0.005	5	0.8077	1.4325	2.4297	22.21311
12.8	16.4	0.15	-1.17	-1.57	16.3857	0.9154	5	2.56806	103.2106	0.68323	0	0.6832	22.983	0.9553	-0.005	5	0.8181	1.4302	2.4563	21.2247
12.9	15.8	0.15	-1.17	-1.57	15.7857	0.9502	4	2.58991	103.1196	0.68839	0	0.6884	21.931	0.9936	-0.006	5	0.8275	1.4272	2.4803	20.36378
13	15.4	0.14	-1.17	-1.57	15.3857	0.9099	4	2.59118	102.5522	0.69352	0	0.6935	21.185	0.9529	-0.006	5	0.8291	1.4194	2.4839	19.70932
13.1	15.2	0.14	-1.18	-1.57	15.1856	0.9219	4	2.59883	102.5202	0.69864	0	0.6986	20.736	0.9664	-0.006	5	0.8331	1.4132	2.4939	19.34818
13.2	15.9	0.13	-1.24	-1.57	15.8848	0.8184	5	2.55812	102.0878	0.70375	0	0.7038	21.572	0.8563	-0.006	5	0.8188	1.3964	2.4556	20.03496
13.3	17.5	0.13	-1.24	-1.57	17.4848	0.7435	5	2.50236	102.3219	0.70886	0	0.7089	23.666	0.7749	-0.005	5	0.7987	1.3771	2.4023	21.83288
13.4	19.5	0.14	-1.24	-1.59	19.4848	0.7185	5	2.45357	103.1283	0.71402	0	0.714	26.289	0.7458	-0.005	5	0.7814	1.3598	2.3562	24.12315
13.5	21.2	0.18	-1.24	-1.59	21.1848	0.8497	5	2.45422	105.1711	0.71928	0	0.7193	28.453	0.8795	-0.004	5	0.7829	1.3528	2.3595	26.16592
13.6	23.2	0.2	-1.24	-1.6	23.1848	0.8626	5	2.4228	106.1621	0.72459	0	0.7246	30.997	0.8905	-0.004	5	0.7723	1.3396	2.3308	28.43623
13.7	28	0.23	-1.24	-1.6	27.9848	0.8219	5	2.34104	107.6437	0.72997	0	0.73	37.337	0.8439	-0.003	5	0.7428	1.3175	2.2528	33.93637
13.8	39.6	0.3	-1.17	-1.6	39.5857	0.7579	5	2.19264	110.4337	0.73549	0	0.7355	52.822	0.7722	-0.002	5	0.6888	1.2847	2.1104	47.16916
13.9	55.6	0.4	-1.12	-1.61	55.5863	0.7196	6	2.05453	113.3666	0.74116	0	0.7412	73.999	0.7293	-0.001	6	0.639	1.2555	1.9791	65.07493

14	71.3	0.45	-1.17	-1.61	71.2857	0.6313	6	1.93273	114.8351	0.7469	0	0.7469	94.442	0.638	-0.001	6	0.5951	1.2303	1.8632	82.02031
14.1	81.9	0.41	-1.16	-1.63	81.8858	0.5007	6	1.82926	114.4921	0.75263	0	0.7526	107.8	0.5053	-0.001	6	0.5576	1.2092	1.764	92.71772
14.2	85.4	0.51	-1.09	-1.61	85.3867	0.5973	6	1.85359	116.1912	0.75844	0	0.7584	111.58	0.6026	-9E-04	6	0.5679	1.2082	1.7903	96.62901
14.3	83	0.57	-1.15	-1.61	82.9859	0.6869	6	1.89717	116.9355	0.76428	0	0.7643	107.58	0.6933	-0.001	6	0.5851	1.2097	1.8347	93.99765
14.4	76.4	0.58	-1.37	-1.61	76.3832	0.7593	6	1.95141	116.8605	0.77013	0	0.7701	98.183	0.7671	-0.001	6	0.6061	1.2123	1.8891	86.63426
14.5	72.7	0.56	-1.36	-1.63	72.6834	0.7705	6	1.97279	116.4827	0.77595	0	0.776	92.67	0.7788	-0.001	6	0.6148	1.2101	1.9113	82.23579
14.6	70	0.54	-1.23	-1.63	69.9849	0.7716	6	1.98677	116.1243	0.78176	0	0.7818	88.523	0.7803	-0.001	6	0.6209	1.2068	1.9263	78.92461
14.7	70.6	0.53	-1.17	-1.63	70.5857	0.7509	6	1.97711	116.0084	0.78756	0	0.7876	88.626	0.7593	-0.001	6	0.6181	1.2003	1.9184	79.17436
14.8	77.5	0.57	-1.04	-1.62	77.4873	0.7356	6	1.9385	116.7683	0.79339	0	0.7934	96.665	0.7432	-1E-03	6	0.6047	1.1902	1.8826	86.26749
14.9	94.5	0.66	-1.12	-1.61	94.4863	0.6985	6	1.85481	118.3247	0.79931	0	0.7993	117.21	0.7045	-9E-04	6	0.5747	1.1749	1.8031	104.0299
15	112.1	0.78	-1.09	-1.61	112.087	0.6959	6	1.79359	119.9637	0.80531	0	0.8053	138.18	0.7009	-7E-04	6	0.5531	1.163	1.7456	122.3128
15.1	126.9	0.89	-1.02	-1.61	126.888	0.7014	6	1.75257	121.2315	0.81137	0	0.8114	155.39	0.7059	-6E-04	6	0.5389	1.1538	1.7076	137.4816
15.2	138.6	1.04	-1.02	-1.61	138.588	0.7504	6	1.74063	122.5863	0.8175	0	0.8175	168.53	0.7549	-5E-04	6	0.5356	1.1482	1.698	149.4963
15.3	145.6	1.15	-1.02	-1.61	145.588	0.7899	6	1.73828	123.4421	0.82367	0	0.8237	175.75	0.7944	-5E-04	6	0.5357	1.1436	1.6975	156.4581
15.4	147.4	1.23	-0.91	-1.61	147.389	0.8345	6	1.74967	123.9642	0.82987	0	0.8299	176.6	0.8393	-5E-04	6	0.5408	1.1404	1.7103	157.961
15.5	147.9	1.29	-0.94	-1.59	147.888	0.8723	6	1.76116	124.3209	0.83609	0	0.8361	175.88	0.8772	-5E-04	6	0.546	1.1372	1.723	158.046
15.6	145.2	1.32	-0.82	-1.58	145.19	0.9092	6	1.77904	124.4442	0.84231	0	0.8423	171.37	0.9145	-4E-04	6	0.5535	1.1346	1.7419	154.7766
15.7	140.4	1.3	-0.88	-1.57	140.389	0.926	6	1.79527	124.2505	0.84852	0	0.8485	164.45	0.9316	-5E-04	6	0.5603	1.1317	1.759	149.2394
15.8	133.6	1.21	-0.94	-1.57	133.588	0.9058	6	1.80524	123.6044	0.8547	0	0.8547	155.3	0.9116	-5E-04	6	0.5647	1.1281	1.7698	141.5161
15.9	124.4	1.09	-0.94	-1.57	124.388	0.8763	6	1.81963	122.6662	0.86083	0	0.8608	143.5	0.8824	-6E-04	6	0.5707	1.125	1.7848	131.3331
16	116.9	0.99	-1.01	-1.56	116.888	0.847	6	1.83119	121.8104	0.86693	0	0.8669	133.83	0.8533	-6E-04	6	0.5757	1.1216	1.7972	122.9789
16.1	112.1	0.89	-0.92	-1.55	112.089	0.794	6	1.8281	120.929	0.87297	0	0.873	127.4	0.8003	-6E-04	6	0.5752	1.117	1.7951	117.4038
16.2	111.2	0.85	-0.83	-1.54	111.19	0.7645	6	1.82084	120.5729	0.879	0	0.879	125.5	0.7706	-5E-04	6	0.5732	1.1122	1.7892	115.9457
16.3	112.5	0.88	-0.82	-1.53	112.49	0.7823	6	1.82292	120.8551	0.88504	0	0.885	126.1	0.7885	-5E-04	6	0.5748	1.1081	1.7927	116.8797
16.4	113.5	0.94	-0.87	-1.53	113.489	0.8283	6	1.83516	121.3592	0.89111	0	0.8911	126.36	0.8348	-6E-04	6	0.5805	1.1049	1.8062	117.5721
16.5	116.1	1	-0.87	-1.51	116.089	0.8614	6	1.83811	121.8672	0.8972	0	0.8972	128.39	0.8681	-5E-04	6	0.5824	1.1008	1.8106	119.8441
16.6	123.7	1.09	-0.87	-1.51	123.689	0.8812	6	1.82308	122.6525	0.90334	0	0.9033	135.92	0.8877	-5E-04	6	0.5776	1.0956	1.7972	127.1419
16.7	140.1	1.24	-0.93	-1.53	140.089	0.8852	6	1.78308	123.8995	0.90953	0	0.9095	153.02	0.8909	-5E-04	6	0.5634	1.089	1.7593	143.2408
16.8	157.3	1.38	-1.08	-1.52	157.287	0.8774	6	1.74281	124.9647	0.91578	0	0.9158	170.75	0.8825	-5E-04	6	0.5491	1.0826	1.7209	159.9833
16.9	166.5	1.56	-1.12	-1.51	166.486	0.937	6	1.7439	126.0004	0.92208	0	0.9221	179.56	0.9422	-5E-04	6	0.5503	1.0787	1.7234	168.7814
17	160.2	1.63	-0.97	-1.51	160.188	1.0176	6	1.78066	126.2275	0.92839	0	0.9284	171.54	1.0235	-4E-04	6	0.565	1.0767	1.7611	162.056
17.1	148.5	1.54	-0.92	-1.51	148.489	1.0371	6	1.81029	125.6269	0.93467	0	0.9347	157.87	1.0437	-5E-04	6	0.5769	1.0742	1.7916	149.7948
17.2	142.5	1.46	-1.04	-1.51	142.487	1.0247	6	1.81987	125.136	0.94093	0	0.9409	150.43	1.0315	-5E-04	6	0.5812	1.0706	1.8022	143.2168
17.3	141.8	1.38	-1.09	-1.51	141.787	0.9733	6	1.80644	124.7116	0.94717	0	0.9472	148.7	0.9798	-6E-04	6	0.5768	1.066	1.79	141.887
17.4	143.3	1.27	-1.21	-1.51	143.285	0.8863	6	1.77607	124.1295	0.95337	0	0.9534	149.29	0.8923	-6E-04	6	0.566	1.0608	1.7609	142.6906
17.5	142.5	1.13	-1.47	-1.51	142.482	0.7931	6	1.74658	123.2611	0.95953	0	0.9595	147.49	0.7985	-8E-04	6	0.5556	1.0558	1.7327	141.2178
17.6	141.8	1.02	-1.48	-1.52	141.782	0.7194	6	1.72142	122.4998	0.96566	0	0.9657	145.82	0.7244	-8E-04	6	0.5467	1.0513	1.7087	139.9041
17.7	141.8	0.92	-1.59	-1.53	141.781	0.6489	6	1.69375	121.7447	0.97175	0	0.9718	144.9	0.6534	-8E-04	6	0.5369	1.0468	1.6823	139.3006
17.8	144.4	0.84	-1.62	-1.53	144.38	0.5818	6	1.65893	121.1234	0.9778	0	0.9778	146.66	0.5858	-8E-04	6	0.5244	1.0423	1.6486	141.2543
17.9	147.1	0.78	-1.56	-1.53	147.081	0.5303	6	1.62881	120.6264	0.98383	0	0.9838	148.5	0.5339	-8E-04	6	0.5136	1.0381	1.6197	143.3331
18	148.7	0.79	-1.28	-1.53	148.684	0.5313	6	1.62545	120.746	0.98987	0	0.9899	149.21	0.5349	-6E-04	6	0.5131	1.0348	1.6174	144.4401
18.1	150.2	0.82	-1.04	-1.53	150.187	0.546	6	1.62882	121.0433	0.99592	0	0.9959	149.8	0.5496	-5E-04	6	0.515	1.0317	1.6219	145.4659
18.2	148.1	0.85	-1.02	-1.53	148.088	0.574	6	1.64659	121.2718	1.00199	0	1.002	146.79	0.5779	-5E-04	6	0.5225	1.0289	1.6408	143.0232
18.3	144.7	0.85	-1.02	-1.52	144.688	0.5875	6	1.6607	121.2152	1.00805	0	1.0081	142.53	0.5916	-5E-04	6	0.5286	1.026	1.656	139.3128
18.4	142.2	0.82	-0.98	-1.52	142.188	0.5767	6	1.66203	120.9098	1.01409	0	1.0141	139.21	0.5808	-5E-04	6	0.5298	1.0228	1.6585	136.4585
18.5	141.8	0.77	-1.02	-1.53	141.788	0.5431	6	1.64776	120.4426	1.02012	0	1.0201	137.99	0.547	-5E-04	6	0.5251	1.0194	1.6453	135.616
18.6	140.5	0.72	-1.09	-1.52	140.487	0.5125	6	1.6366	119.9288	1.02611	0	1.0261	135.91	0.5163	-6E-04	6	0.5216	1.0161	1.6353	133.9295
18.7	136.3	0.67	-1.09	-1.51	136.287	0.4916	6	1.63733	119.3282	1.03208	0	1.0321	131.05	0.4954	-6E-04	6	0.5226	1.0131	1.6372	129.5014
18.8	129.1	0.62	-1.09	-1.51	129.087	0.4803	6	1.65143	118.6283	1.03801	0	1.038	123.36	0.4842	-6E-04	6	0.5287	1.0102	1.6526	122.2498
18.9	118.5	0.6	-1.08	-1.51	118.487	0.5064	6	1.69514	118.1794	1.04392	0	1.0439	112.5	0.5109	-7E-04	6	0.5462	1.0074	1.6978	111.8147
19	105.1	0.58	-1.02	-1.49	105.088	0.5519	6	1.75923	117.6386	1.0498	0	1.0498	99.102	0.5575	-7E-04	6	0.5716	1.0045	1.7636	98.76821
19.1	96.4	0.57	-1.02	-1.49	96.3875	0.5914	6	1.80705	117.3006	1.05567	0	1.0557	90.305	0.5979	-8E-04	6	0.5907	1.0014	1.8132	90.21956
19.2	90.5	0.57	-1.02	-1.49	90.4875	0.6299	6	1.84505	117.1465	1.06152	0	1.0615	84.243	0.6374	-8E-04	6	0.6061	0.9981	1.8529	84.35007
19.3	88	0.61	-1.09	-1.49	87.9867	0.6933	6	1.8784	117.5744	1.0674	0	1.0674	81.431	0.7018	-9E-04	6	0.6197	0.9946	1.8877	81.70196
19.4	86.7	0.67	-1.09	-1.48	86.6867	0.7729	6	1.91073	118.2246	1.07331	0	1.0733	79.765	0.7826	-9E-04	6	0.6328	0.991	1.9215	80.18447
19.5	86.2	0.73	-1.03	-1.48	86.1874	0.847	6	1.93607	118.8381	1.07926	0	1.0793	78.858	0.8577	-9E-04	6	0.6433	0.9874	1.9482	79.41687
19.6	85.3	0.79	-1.11	-1.48	85.2864	0.9263	6	1.963	119.3904	1.08522	0	1.0852	77.589	0.9382	-1E-03	6	0.6543	0.9836	1.9765	78.27033
19.7	85.8	0.83	-1.2	-1.48	85.7853	0.9675	6	1.97249	119.766	1.09121	0	1.0912	77.615	0.98	-0.001	6	0.6587	0.9799	1.9873	78.43497
19.8	87.8	0.89	-1.22	-1.48	87.7851	1.0138	6	1.9771	120.3329	1.09723	0	1.0972	79.006	1.0267	-0.001	6	0.6612	0.9763	1.993	79.98398
19.9	90.2	0.93	-1.16	-1.47	90.1858	1.0312	6	1.97253	120.7204	1.10327	0	1.1033	80.744	1.044	-9E-04	6	0.6601	0.9728	1.9894	81.89955
20	92.2	0.97	-1.11	-1.46	92.1864	1.0522	6	1.97061	121.0821	1.10932	0	1.1093	82.102	1.065	-9E-04	6	0.6601	0.9693	1.9885	83.4315
20.1	93.9	0.97	-1.25	-1.47	93.8847	1.0332	6	1.95946	121.1266	1.11538	0	1.1154	83.173	1.0456	-1E-03	6	0.6565	0.966	1.9785	84.69268
20.2	94.1	0.93	-1.37	-1.46	94.0832	0.9885	6	1.9467	120.8236	1.12142	0	1.1214	82.897	1.0004	-0.001	6	0.6524	0.9628	1.9669	84.58817
20.3	91.8	0.92	-1.44	-1.47	91.7824	1.0024	6	1.95889	120.6841	1.12745	0	1.1275	80.407	1.0148	-0.001	6	0.6579	0.9591	1.9806	82.17198
20.4	81.6	0.92	-1.39	-1.46	81.583	1.1277	6	2.0308	120.3968	1.13347	0	1.1335	70.976	1.1436	-0.001	5	0.6867	0.9539	2.0554	72.52287
20.5	73.9	0.9	-1.52	-1.46	73.8814	1.2182	5	2.08536	119.9941	1.13947	0	1.1395	63.838	1.2373	-0.002	5	0.7088	0.9489	2.1127	65.23044
20.6	70.5	0.9	-1.54	-1.44	70.4812	1.2769	5	2.11413	119.8792	1.14547	0	1.1455	60.531	1.298	-0.002	5	0.7208	0.9444	2.1435	61.88601
20.7	69.4	0.92	-1.68	-1.45	69.3794	1.326	5	2.12976	120.0016	1.15147	0	1.1515	59.253	1.3484	-0.002	5	0.7277	0.9403	2.1608	60.63322
20.8	70	0.9	-1.56	-1.45	69.9809	1.2861	5	2.11848	119.8618	1.15746	0	1.1575	59.461	1.3077	-0.002	5	0.7242	0.9371	2.1507	60.95121
20.9	70.8	0.85	-1.24	-1.44	70.7848	1.2008	5	2.09603	119.4715	1.16343	0	1.1634	59.841	1.2209	-0.001	5	0.7163	0.9343	2.1294	61.4742
21	69.6	0.73	-1.27	-1.44	69.5845	1.0491	5	2.0661	118.3162	1.16935	0	1.1694	58.507	1.067	-0.001	5	0.7058	0.9319	2.101	60.25339

21.1	68	0.63	-1.32	-1.44	67.9838	0.9267	6	2.04242	117.1814	1.17521	0	1.1752	56.848	0.943	-0.001	5	0.6977	0.9294	2.0789	58.68133
21.2	65.2	0.62	-1.32	-1.44	65.1838	0.9512	5	2.06386	116.9618	1.18105	0	1.1811	54.191	0.9687	-0.001	5	0.7069	0.9252	2.1025	55.96549
21.3	61.4	0.64	-1.39	-1.44	61.383	1.0426	5	2.10833	117.0476	1.18691	0	1.1869	50.717	1.0632	-0.002	5	0.7251	0.9201	2.1495	52.34365
21.4	57.9	0.66	-1.39	-1.44	57.883	1.1402	5	2.15185	117.1295	1.19276	0	1.1928	47.528	1.1642	-0.002	5	0.743	0.9148	2.1957	49.01447
21.5	55.1	0.66	-1.37	-1.43	55.0832	1.1982	5	2.18196	117.0086	1.19861	0	1.1986	44.956	1.2248	-0.002	5	0.7557	0.9101	2.2283	46.3462
21.6	52.9	0.64	-1.31	-1.42	52.884	1.2102	5	2.19877	116.6841	1.20445	0	1.2045	42.907	1.2384	-0.002	5	0.7633	0.9059	2.2475	44.24336
21.7	50.7	0.6	-1.25	-1.42	50.6847	1.1838	5	2.20803	116.1082	1.21025	0	1.2103	40.879	1.2128	-0.002	5	0.768	0.902	2.2591	42.17364
21.8	48.3	0.56	-1.24	-1.42	48.2848	1.1598	5	2.21998	115.4851	1.21603	0	1.216	38.707	1.1898	-0.002	5	0.7738	0.898	2.2737	39.94422
21.9	46.6	0.53	-1.29	-1.42	46.5842	1.1377	5	2.22792	114.9948	1.22178	0	1.2218	37.128	1.1684	-0.002	5	0.778	0.8941	2.284	38.33277
22	46.2	0.54	-1.35	-1.41	46.1835	1.1693	5	2.2378	115.1105	1.22753	0	1.2275	36.623	1.2012	-0.002	5	0.7827	0.8903	2.2955	37.82428
22.1	47.3	0.56	-1.43	-1.4	47.2825	1.1844	5	2.23269	115.4339	1.23331	0	1.2333	37.338	1.2161	-0.002	5	0.7813	0.8872	2.2912	38.61018
22.2	50.3	0.59	-1.6	-1.41	50.2804	1.1734	5	2.20862	115.9657	1.2391	0	1.2391	39.578	1.2031	-0.002	5	0.7724	0.8852	2.2669	41.02664
22.3	52.5	0.63	-1.62	-1.4	52.4802	1.2005	5	2.19938	116.5501	1.24493	0	1.2449	41.155	1.2296	-0.002	5	0.7692	0.8824	2.258	42.7287
22.4	53.7	0.69	-1.66	-1.4	53.6797	1.2854	5	2.2092	117.2709	1.25079	0	1.2508	41.916	1.3161	-0.002	5	0.7736	0.8786	2.2687	43.53472
22.5	53.7	0.77	-1.65	-1.4	53.6798	1.4344	5	2.23819	118.0736	1.2567	0	1.2567	41.715	1.4688	-0.002	5	0.7855	0.8736	2.2992	43.28302
22.6	54.4	0.8	-1.61	-1.4	54.3803	1.4711	5	2.24053	118.3849	1.26262	0	1.2626	42.07	1.5061	-0.002	5	0.7871	0.8702	2.3026	43.6827
22.7	56.2	0.8	-1.56	-1.4	56.1809	1.424	5	2.22066	118.4643	1.26854	0	1.2685	43.288	1.4569	-0.002	5	0.78	0.8681	2.2832	45.05056
22.8	58.4	0.79	-1.54	-1.38	58.3812	1.3532	5	2.19386	118.466	1.27446	0	1.2745	44.808	1.3834	-0.002	5	0.7701	0.8665	2.2566	46.76617
22.9	59.9	0.74	-1.58	-1.38	59.8807	1.2358	5	2.16105	118.0494	1.28037	0	1.2804	45.768	1.2628	-0.002	5	0.7582	0.8654	2.2244	47.9283
23	60.8	0.66	-1.6	-1.38	60.7804	1.0859	5	2.12219	117.2487	1.28623	0	1.2862	46.255	1.1094	-0.002	5	0.7439	0.8648	2.1863	48.62586
23.1	61.8	0.64	-1.55	-1.38	61.781	1.0359	5	2.10441	117.0633	1.29208	0	1.2921	46.815	1.058	-0.002	5	0.7378	0.863	2.1693	49.33303
23.2	62.9	0.79	-1.62	-1.38	62.8802	1.2564	5	2.14861	118.647	1.29801	0	1.298	47.443	1.2828	-0.002	5	0.7553	0.857	2.2146	49.87641
23.3	60.9	1.05	-1.62	-1.38	60.8802	1.7247	5	2.2464	120.65	1.30405	0	1.3041	45.686	1.7625	-0.002	5	0.7938	0.8471	2.315	47.69776
23.4	55.2	1.27	-1.42	-1.37	55.1826	2.3015	5	2.3611	121.8022	1.31014	0	1.3101	41.12	2.3574	-0.002	5	0.8395	0.8358	2.4342	42.55465
23.5	48.2	1.41	-1.27	-1.36	48.1845	2.9263	4	2.475	122.2366	1.31625	0	1.3163	35.607	3.0084	-0.002	4	0.8854	0.8243	2.5541	36.50961
23.6	43.1	1.45	-1.26	-1.36	43.0846	3.3655	4	2.55197	122.1684	1.32236	0	1.3224	31.582	3.472	-0.002	4	0.9171	0.8151	2.6365	32.17103
23.7	41.1	1.4	-1.05	-1.36	41.0872	3.4074	4	2.5707	121.7959	1.32845	0	1.3285	29.929	3.5212	-0.002	4	0.9257	0.8101	2.6585	30.43879
23.8	41.7	1.37	-0.6	-1.36	41.6927	3.286	4	2.55531	121.6731	1.33453	0	1.3345	30.241	3.3946	-0.001	4	0.9205	0.8076	2.6441	30.80448
23.9	42.1	1.35	-0.67	-1.34	42.0918	3.2073	4	2.54513	121.5887	1.34061	0	1.3406	30.398	3.3128	-0.001	4	0.9174	0.8049	2.635	30.99775
24	42.3	1.32	-0.86	-1.33	42.2895	3.1213	4	2.53565	121.4357	1.34668	0	1.3467	30.403	3.224	-0.002	4	0.9145	0.8021	2.6269	31.03578
24.1	43.2	1.29	-1.04	-1.32	43.1873	2.987	4	2.51602	121.3187	1.35275	0	1.3528	30.926	3.0836	-0.002	4	0.9076	0.8002	2.6079	31.63548
24.2	46.1	1.29	-1.13	-1.32	46.0862	2.7991	4	2.47616	121.4772	1.35882	0	1.3588	32.916	2.8841	-0.002	4	0.8923	0.8	2.567	33.81472
24.3	57.6	1.27	-2.01	-1.29	57.5754	2.2058	5	2.33506	121.9057	1.36492	0	1.3649	41.182	2.2594	-0.003	5	0.8364	0.8082	2.4192	42.93409
24.4	79.3	1.25	-1.94	-1.28	79.2763	1.5768	5	2.13432	122.5697	1.37105	0	1.3711	56.822	1.6045	-0.002	5	0.7568	0.8219	2.2094	60.51713
24.5	98.1	1.25	-1.59	-1.26	98.0805	1.2745	6	2.00383	123.0888	1.3772	0	1.3772	70.217	1.2926	-0.001	5	0.7055	0.8303	2.0737	75.88494
24.6	101.3	1.32	-1.34	-1.23	101.284	1.3033	6	1.99985	123.5659	1.38338	0	1.3834	72.215	1.3213	-1E-03	5	0.7044	0.828	2.0701	78.16963
24.7	84.7	1.38	-1.38	-1.22	84.6831	1.6296	5	2.12262	123.4545	1.38955	0	1.3896	59.943	1.6568	-0.001	5	0.7539	0.8143	2.1994	64.10006
24.8	72	1.43	-1.36	-1.22	71.9834	1.9866	5	2.2328	123.3187	1.39572	0	1.3957	50.574	2.0259	-0.001	5	0.7986	0.8016	2.3162	53.47469
24.9	64.4	1.48	-1.35	-1.21	64.3835	2.2987	5	2.31147	123.298	1.40188	0	1.4019	44.926	2.3499	-0.002	5	0.8309	0.7916	2.4	47.11614
25	59.3	1.49	-1.38	-1.19	59.2831	2.5134	5	2.36413	123.146	1.40804	0	1.408	41.103	2.5745	-0.002	5	0.8528	0.7838	2.457	42.86845
25.1	59.4	1.42	-1.47	-1.2	59.382	2.3913	5	2.34884	122.798	1.41418	0	1.4142	40.99	2.4496	-0.002	5	0.8478	0.782	2.4429	42.8409
25.2	61	1.13	-1.47	-1.2	60.982	1.853	5	2.26618	121.1913	1.42024	0	1.4202	41.938	1.8972	-0.002	5	0.8167	0.7863	2.3603	44.26336
25.3	61.9	0.86	-1.47	-1.2	61.882	1.3897	5	2.18121	119.2292	1.4262	0	1.4262	42.389	1.4225	-0.002	5	0.7848	0.7911	2.2757	45.20251
25.4	60	0.65	-1.43	-1.21	59.9825	1.0837	5	2.1263	117.1047	1.43206	0	1.4321	40.886	1.1102	-0.002	5	0.765	0.7933	2.2229	43.89968
25.5	57.8	0.56	-1.39	-1.21	57.783	0.9691	5	2.11133	115.9231	1.43785	0	1.4379	39.187	0.9939	-0.002	5	0.7605	0.792	2.2104	42.17337
25.6	56.4	0.54	-1.39	-1.2	56.383	0.9577	5	2.11716	115.5972	1.44363	0	1.4436	38.056	0.9829	-0.002	5	0.7639	0.7888	2.2184	40.95347
25.7	54.8	0.55	-1.39	-1.22	54.783	1.004	5	2.13909	115.6612	1.44941	0	1.4494	36.797	1.0313	-0.002	5	0.7734	0.784	2.2428	39.51614
25.8	54.2	0.57	-1.35	-1.22	54.1835	1.052	5	2.15465	115.8957	1.45521	0	1.4552	36.234	1.081	-0.002	5	0.7803	0.7799	2.2602	38.86201
25.9	53.6	0.61	-1.28	-1.22	53.5843	1.1384	5	2.17851	116.3649	1.46103	0	1.461	35.676	1.1703	-0.002	5	0.7904	0.7749	2.2859	38.17262
26	52.3	0.64	-1.24	-1.22	52.2848	1.2241	5	2.20569	116.6563	1.46686	0	1.4669	34.644	1.2594	-0.002	5	0.8019	0.7696	2.3155	36.96004
26.1	50.5	0.7	-1.2	-1.23	50.4853	1.3865	5	2.2503	117.2265	1.47272	0	1.4727	33.28	1.4282	-0.002	5	0.8203	0.7625	2.3631	35.31791
26.2	50.4	0.86	-1.11	-1.23	50.3864	1.7068	5	2.3067	118.728	1.47866	0	1.4787	33.076	1.7584	-0.002	5	0.8427	0.7543	2.4212	34.86413
26.3	51.4	1.19	-1.04	-1.22	51.3873	2.3158	5	2.38595	121.1523	1.48472	0	1.4847	33.611	2.3847	-0.002	4	0.8734	0.7439	2.5014	35.08338
26.4	48.1	1.37	-1.25	-1.2	48.0847	2.8491	4	2.46777	122.021	1.49082	0	1.4908	31.254	2.9403	-0.002	4	0.9066	0.7329	2.5878	32.27115
26.5	41.2	1.45	-1.68	-1.22	41.1794	3.5212	4	2.57973	122.0581	1.49692	0	1.4969	26.509	3.654	-0.003	4	0.9529	0.7185	2.7088	26.94629
26.6	34.5	1.42	-1.56	-1.22	34.4809	4.1182	4	2.6825	121.4722	1.50299	0	1.503	21.941	4.3059	-0.003	3	0.9966	0.7049	2.8226	21.96794
26.7	30	1.36	-1.47	-1.22	29.982	4.5361	3	2.75552	120.8153	1.50903	0	1.509	18.868	4.7765	-0.004	3	1	0.7012	2.902	18.86835
26.8	31.5	1.31	-1.47	-1.22	31.482	4.1611	4	2.71451	120.6603	1.51507	0	1.5151	19.779	4.3715	-0.004	3	1	0.6984	2.8614	19.77929
26.9	32.9	1.24	-1.9	-1.22	32.8767	3.7717	4	2.67182	120.3642	1.52108	0	1.5211	20.614	3.9546	-0.004	3	0.9961	0.6966	2.819	20.64319
27	29.2	1.15	-1.7	-1.22	29.1792	3.9412	4	2.72308	119.5218	1.52706	0	1.5271	18.108	4.1588	-0.004	3	1	0.6929	2.8767	18.10807
27.1	24	1.05	-1.26	-1.23	23.9846	4.3778	3	2.81706	118.3781	1.53298	0	1.533	14.646	4.6767	-0.004	3	1	0.6902	2.9802	14.64572
27.2	19.9	0.95	-0.92	-1.24	19.8887	4.7766	3	2.90323	117.189	1.53884	0	1.5388	11.925	5.1771	-0.004	3	1	0.6876	3.0773	11.92451
27.3	18.3	0.79	-0.86	-1.24	18.2895	4.3194	3	2.90274	115.6351	1.54462	0	1.5446	10.841	4.7179	-0.004	3	1	0.685	3.0847	10.84075
27.4	20.5	0.71	-0.8	-1.24	20.4902	3.4651	4	2.80393	115.131	1.55038	0	1.5504	12.216	3.7487	-0.003	3	1	0.6825	2.9828	12.21627
27.5	40.8	0.76	-1.14	-1.23	40.7861	1.8634	5	2.40219	117.3079	1.55624	0	1.5562	25.208	1.9373	-0.002	4	0.8934	0.7085	2.5449	26.26609
27.6	52.9	0.89	-1.46	-1.22	52.8821	1.683	5	2.28656	119.0968	1.5622	0	1.5622	32.851	1.7342	-0.002	5	0.8452	0.7194	2.4173	34.8934
27.7	54.8	1	-1.6	-1.23	54.7804	1.8255	5	2.29732	120.0355	1.5682	0	1.5682	33.932	1.8793	-0.002	5	0.8495	0.7159	2.4278	36.00242
27.8	55	1.12	-1.63	-1.24	54.9801	2.0371	5	2.32713	120.8736	1.57424	0	1.5742	33.925	2.0972	-0.002	5	0.8616	0.7101	2.4589	35.84273
27.9	59.6	1.29	-2.68	-1.24	59.5672	2.1656	5	2.31875	122.103	1.58035	0	1.5804	36.692	2.2246	-0.003	5	0.8578	0.7089	2.4481	38.8472
28	62.6	1.52	-5.42	-1.23	62.5337	2.4307	5	2.3373	123.422	1.58652	0	1.5865	38.416	2.494	-0.006	5	0.8648	0.7045	2.4658	40.57845
28.1	57.3	1.66	-7.69	-1.21	57.2059	2.9018	5	2.41844	123.8495	1.59271	0	1.5927	34.917	2.9849	-0.01	4	0.8981	0.6926	2.5528	36.40296

28.2	46.8	1.68	-9.01	-1.21	46.6897	3.5982	4	2.54681	123.4417	1.59888	0	1.5989	28.201	3.7258	-0.014	4	0.9518	0.6751	2.6931	28.76877
28.3	35.4	1.36	-9.55	-1.22	35.2831	3.8545	4	2.6556	121.2124	1.60494	0	1.6049	20.984	4.0382	-0.02	3	1	0.6593	2.8195	20.984
28.4	25.8	1.21	-9.71	-1.22	25.6812	4.7116	3	2.8162	119.5825	1.61092	0	1.6109	14.942	5.027	-0.029	3	1	0.6568	2.9935	14.94188
28.5	24.9	1.17	-9.76	-1.21	24.7805	4.7215	3	2.8283	119.2495	1.61689	0	1.6169	14.326	5.051	-0.03	3	1	0.6544	3.0089	14.32608
28.6	35.6	1.15	-9.62	-1.21	35.4823	3.2411	4	2.60316	119.9989	1.62289	0	1.6229	20.864	3.3964	-0.02	4	0.9824	0.6569	2.7708	21.02133
28.7	64.6	1.07	-9.56	-1.22	64.483	1.6594	5	2.21651	120.9283	1.62893	0	1.6289	38.586	1.7024	-0.011	5	0.8235	0.701	2.3516	41.64002
28.8	91.1	0.93	-9.56	-1.22	90.983	1.0222	6	1.96716	120.7419	1.63497	0	1.635	54.648	1.0409	-0.008	5	0.7223	0.7303	2.0865	61.66852
28.9	110.5	0.88	-9.21	-1.22	110.387	0.7972	6	1.83442	120.809	1.64101	0	1.641	66.268	0.8092	-0.006	6	0.669	0.7456	1.946	76.62708
29	111	0.99	-9.19	-1.23	110.888	0.8928	6	1.86337	121.6819	1.64709	0	1.6471	66.323	0.9063	-0.006	6	0.6807	0.7399	1.976	76.38782
29.1	106	1.13	-8.86	-1.24	105.892	1.0671	6	1.9282	122.5372	1.65322	0	1.6532	63.052	1.0841	-0.006	6	0.707	0.7294	2.0442	71.85875
29.2	114.9	0.95	-6.36	-1.29	114.822	0.8274	6	1.83089	121.4652	1.65929	0	1.6593	68.199	0.8395	-0.004	6	0.6691	0.7401	1.9439	79.14777
29.3	124	0.94	-6.85	-1.32	123.916	0.7586	6	1.78155	121.5736	1.66537	0	1.6654	73.407	0.7689	-0.004	6	0.6497	0.7448	1.8921	86.05029
29.4	125.2	1.05	-9.43	-1.32	125.085	0.8394	6	1.80589	122.4063	1.67149	0	1.6715	73.834	0.8508	-0.006	6	0.6595	0.7397	1.9172	86.27185
29.5	124	1.12	-10.61	-1.32	123.87	0.9042	6	1.82974	122.8547	1.67764	0	1.6776	72.836	0.9166	-0.006	6	0.6695	0.7345	1.9426	84.82157
29.6	125	1.14	-10.72	-1.34	124.869	0.913	6	1.82978	123.0038	1.68379	0	1.6838	73.16	0.9254	-0.006	6	0.67	0.7325	1.9433	85.27931
29.7	127.1	1.12	-10.91	-1.34	126.966	0.8821	6	1.81463	122.9149	1.68993	0	1.6899	74.131	0.894	-0.006	6	0.6646	0.7326	1.9283	86.73512
29.8	128.2	1.07	-11.27	-1.34	128.062	0.8355	6	1.79671	122.6017	1.69606	0	1.6961	74.506	0.8468	-0.006	6	0.6583	0.733	1.9109	87.54125
29.9	124.3	0	-11.69	-1.34	124.157	0	0	0	120.9	1.70211	0	1.7021	71.943	0	-0.007	0	1	0.6217	0	0
30	109	0	-11.95	-1.35	108.854	0	0	0	120.9	1.70815	0	1.7082	62.726	0	-0.008	0	1	0.6195	0	0

	CPT-7	In situ data						Basic output data											
Depth (ft)	qc (tsf)	fs (tsf)	u (psi)	Other	qt (tsf)	Rf(%)	SBT	Ic SBT	ã (pcf)	ó,v (tsf)	u0 (tsf)	ó',vo (tsf)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.1	9.5	0	0.01	0.72	9.50012	0	0	0	120.9	0.00605	0	0.0061	1570.6	0	8E-05	0	1	175.04	0	0
0.2	19.2	0	0.01	1.35	19.2001	0	0	0	120.9	0.01209	0	0.0121	1587.1	0	4E-05	0	1	87.519	0	0
0.3	29.9	0.16	-0.05	1.41	29.8994	0.5351	5	2.23056	105.1497	0.01735	0	0.0174	1722.6	0.5354	-1E-04	6	0.4454	6.2389	1.5486	176.1924
0.4	44.6	0.16	-0.08	1.55	44.599	0.3588	6	2.00127	106.125	0.02265	0	0.0227	1967.7	0.3589	-1E-04	6	0.3953	4.5693	1.4164	192.4968
0.5	52.9	0.22	-0.09	1.6	52.8989	0.4159	6	1.95975	108.8714	0.0281	0	0.0281	1881.7	0.4161	-1E-04	6	0.3911	4.133	1.4277	206.5137
0.6	65.1	0.25	-0.05	1.54	65.0994	0.384	6	1.86349	110.3129	0.03361	0	0.0336	1935.7	0.3842	-6E-05	6	0.3741	3.6346	1.3796	223.4987
0.7	67.5	0.27	-0.05	1.67	67.4994	0.4	6	1.85709	110.9643	0.03916	0	0.0392	1722.6	0.4002	-5E-05	6	0.3797	3.4959	1.391	222.8818
0.8	73.6	0.27	-0.05	1.62	73.5994	0.3669	6	1.80684	111.1753	0.04472	0	0.0447	1644.8	0.3671	-5E-05	6	0.3708	3.2323	1.3663	224.6908
0.9	72.9	0.29	0.02	1.62	72.9002	0.3978	6	1.8261	111.6749	0.0503	0	0.0503	1448.2	0.3981	2E-05	6	0.3852	3.2327	1.3901	222.5712
1	74.3	0.3	0.02	1.6	74.3002	0.4038	6	1.82164	111.9694	0.0559	0	0.0559	1328.1	0.4041	2E-05	6	0.3881	3.1303	1.3986	219.6452
1.1	77.7	0.29	0.02	1.55	77.7002	0.3732	6	1.78896	111.8305	0.06149	0	0.0615	1262.5	0.3735	2E-05	6	0.3819	2.964	1.3822	217.4868
1.2	78.7	0.3	0.02	1.56	78.7002	0.3812	6	1.78807	112.1097	0.0671	0	0.0671	1171.9	0.3815	2E-05	6	0.3853	2.8937	1.3915	215.0457
1.3	75.1	0.31	0.02	1.47	75.1002	0.4128	6	1.82188	112.2354	0.07271	0	0.0727	1031.9	0.4132	2E-05	6	0.3985	2.9067	1.4266	206.1063
1.4	69.8	0.31	0.02	1.42	69.8002	0.4441	6	1.86475	112.0569	0.07831	0	0.0783	890.29	0.4446	2E-05	6	0.414	2.9381	1.4674	193.6017
1.5	66	0.3	0.02	1.5	66.0002	0.4545	6	1.89096	111.6805	0.0839	0	0.0839	785.67	0.4551	2E-05	6	0.4211	2.9078	1.4967	181.1471
1.6	62.7	0.29	0.02	1.49	62.7002	0.4625	6	1.9142	111.3073	0.08946	0	0.0895	699.85	0.4632	2E-05	6	0.4308	2.8985	1.5204	171.5082
1.7	60.2	0.28	0.02	1.5	60.2002	0.4651	6	1.931	110.9513	0.09501	0	0.095	632.62	0.4659	2E-05	6	0.4384	2.8766	1.539	163.404
1.8	58.6	0.27	0.02	1.49	58.6002	0.4608	6	1.93953	110.6195	0.10054	0	0.1005	581.85	0.4615	2E-05	6	0.4434	2.8395	1.5509	156.9881
1.9	58.3	0.24	0.02	1.48	58.3002	0.4117	6	1.91974	109.7452	0.10603	0	0.106	548.85	0.4124	2E-05	6	0.4387	2.7436	1.538	150.8924
2	57.7	0.17	0.02	1.48	57.7002	0.2946	6	1.86537	107.1967	0.11139	0	0.1114	517.01	0.2952	3E-05	6	0.4209	2.5791	1.4919	140.3705
2.1	54.3	0.16	0.02	1.5	54.3002	0.2947	6	1.88992	106.605	0.11672	0	0.1167	464.22	0.2953	3E-05	6	0.4302	2.5816	1.5151	132.197
2.2	47.3	0.23	-0.02	1.03	47.2998	0.4863	6	2.03313	108.9238	0.12217	0	0.1222	386.18	0.4875	-3E-05	6	0.4806	2.8221	1.6438	125.8287
2.3	41.1	0.27	-0.05	1.15	41.0994	0.6569	5	2.1479	109.7543	0.12765	0	0.1277	320.96	0.659	-9E-05	6	0.5205	3.0064	1.7466	116.4114
2.4	35.9	0.32	0	1.54	35.9	0.8914	5	2.26505	110.6675	0.13319	0	0.1332	268.55	0.8947	0	6	0.5642	3.2198	1.8512	108.8368
2.5	33.9	0.31	0.02	1.53	33.9002	0.9145	5	2.2921	110.2954	0.1387	0	0.1387	243.41	0.9182	4E-05	6	0.5746	3.214	1.8784	102.5507
2.6	33.9	0.27	0.02	1.52	33.9002	0.7965	5	2.26177	109.2846	0.14417	0	0.1442	234.15	0.7999	4E-05	6	0.566	3.09	1.8548	98.57927
2.7	34.1	0.22	0.02	1.53	34.1002	0.6452	5	2.21557	107.8005	0.14956	0	0.1496	227.01	0.648	4E-05	6	0.549	2.9278	1.8181	93.94045
2.8	33.9	0.18	0.02	1.55	33.9002	0.531	5	2.17985	106.3178	0.15487	0	0.1549	217.89	0.5334	4E-05	6	0.538	2.8118	1.7886	89.67349
2.9	33	0.15	0.02	1.55	33.0002	0.4545	5	2.16212	104.9181	0.16012	0	0.1601	205.1	0.4568	4E-05	6	0.5328	2.7351	1.7746	84.88679
3	31.3	0.15	0.02	1.54	31.3002	0.4792	5	2.19247	104.7891	0.16536	0	0.1654	188.29	0.4818	5E-05	6	0.5446	2.7477	1.8044	80.85169
3.1	29.2	0.16	-0.05	1.54	29.1994	0.548	5	2.24425	105.0919	0.17061	0	0.1706	170.15	0.5512	-1E-04	6	0.5661	2.8095	1.8521	77.07651
3.2	25.6	0.15	-0.04	1.56	25.5995	0.586	5	2.30836	104.2988	0.17583	0	0.1758	144.6	0.59	-1E-04	6	0.5876	2.8708	1.9086	68.97803
3.3	24.5	0.18	0.02	1.56	24.5002	0.7347	5	2.369	105.5258	0.1811	0	0.1811	134.28	0.7402	6E-05	6	0.6105	2.9378	1.9693	67.52124
3.4	25.1	0.12	0.02	1.55	25.1002	0.4781	5	2.27981	102.618	0.18623	0	0.1862	133.78	0.4817	6E-05	6	0.5808	2.7428	1.8895	64.58148
3.5	26.8	0.1	0.02	1.52	26.8002	0.3731	5	2.21292	101.4438	0.19131	0	0.1913	139.09	0.3758	5E-05	6	0.5603	2.6073	1.8345	65.56679
3.6	24.6	0.1	-0.04	1.52	24.5995	0.4065	5	2.26109	101.2348	0.19637	0	0.1964	124.27	0.4098	-1E-04	6	0.5773	2.6441	1.8793	60.98176
3.7	23.1	0.1	0.02	1.49	23.1002	0.4329	5	2.29656	101.0814	0.20142	0	0.2014	113.69	0.4367	6E-05	6	0.5904	2.6629	1.9136	57.62812
3.8	22.8	0.1	-0.03	1.5	22.7996	0.4386	5	2.30396	101.0495	0.20647	0	0.2065	109.42	0.4426	-1E-04	6	0.5947	2.6424	1.9244	56.42221
3.9	21.4	0.08	-0.05	1.5	21.3994	0.3738	5	2.30474	99.26215	0.21144	0	0.2114	100.21	0.3776	-2E-04	6	0.5951	2.6074	1.925	52.21125
4	19.5	0.07	-0.05	1.5	19.4994	0.359	5	2.33679	98.05832	0.21634	0	0.2163	89.133	0.363	-2E-04	6	0.6063	2.6179	1.9538	47.70853
4.1	17.6	0.07	-0.05	1.5	17.5994	0.3977	5	2.39372	97.80828	0.22123	0	0.2212	78.552	0.4028	-2E-04	6	0.6263	2.6649	2.0064	43.76817
4.2	16.2	0.06	-0.05	1.49	16.1994	0.3704	5	2.4173	96.47819	0.22605	0	0.2261	70.662	0.3756	-2E-04	6	0.6347	2.6634	2.0279	40.20741
4.3	14.9	0.06	-0.05	1.47	14.8994	0.4027	5	2.4636	96.27416	0.23087	0	0.2309	63.536	0.409	-3E-04	6	0.6515	2.696	2.0717	37.37414
4.4	14	0.05	-0.05	1.46	13.9994	0.3572	5	2.47233	94.78815	0.23561	0	0.2356	58.418	0.3633	-3E-04	6	0.655	2.6746	2.0804	34.7905
4.5	13.1	0.05	-0.05	1.47	13.0994	0.3817	5	2.50883	94.62608	0.24034	0	0.2403	53.504	0.3888	-3E-04	5	0.6686	2.694	2.116	32.73959
4.6	12.9	0.05	-0.05	1.48	12.8994	0.3876	5	2.5173	94.58856	0.24507	0	0.2451	51.636	0.3951	-3E-04	5	0.6732	2.677	2.1276	32.01535
4.7	13	0.1	-0.05	1.48	12.9994	0.7693	4	2.62501	99.67915	0.25005	0	0.2501	50.987	0.7844	-3E-04	5	0.7152	2.8059	2.2382	33.80855
4.8	13.5	0.19	-0.05	1.48	13.4994	1.4075	4	2.73169	104.4676	0.25528	0	0.2553	51.882	1.4346	-3E-04	5	0.7578	2.9374	2.35	36.7666
4.9	14.7	0.35	-0.05	1.47	14.6994	2.3811	4	2.82235	109.1454	0.26073	0	0.2607	55.377	2.4241	-3E-04	5	0.7946	3.0434	2.4501	41.52872
5	17.4	0.58	-0.05	1.44	17.3994	3.3335	3	2.84924	113.2524	0.2664	0	0.2664	64.314	3.3853	-2E-04	4	0.8112	3.0613	2.4922	49.56853
5.1	22.5	0.89	-0.05	1.35	22.4994	3.9557	3	2.80927	117.0125	0.27225	0	0.2723	81.644	4.0041	-2E-04	4	0.8047	2.9815	2.4741	62.63155
5.2	22.8	1.13	-0.05	1.24	22.7994	4.9563	3	2.8693	118.7917	0.27819	0	0.2782	80.958	5.0175	-2E-04	4	0.8298	3.0302	2.5388	64.49611
5.3	25.7	1.33	-0.05	1.23	25.6994	5.1752	3	2.84353	120.2761	0.2842	0	0.2842	89.427	5.2331	-1E-04	9	0.8251	2.9584	2.5255	71.05896
5.4	31.3	1.44	-0.13	1.27	31.2984	4.6009	3	2.74611	121.3383	0.29027	0	0.2903	106.83	4.6439	-3E-04	9	0.7951	2.7965	2.446	81.95191
5.5	39.1	0.23	-0.13	1.38	39.0984	0.5883	5	2.14436	108.4593	0.29569	0	0.2957	131.23	0.5927	-2E-04	6	0.5774	2.0878	1.8711	76.56313
5.6	53	0.09	-0.13	1.65	52.9984	0.1698	6	1.82656	102.3359	0.30081	0	0.3008	175.19	0.1708	-2E-04	6	0.4683	1.8023	1.583	89.75938
5.7	66.5	0.09	-0.13	2.09	66.4984	0.1353	6	1.70826	102.8893	0.30595	0	0.306	216.35	0.136	-1E-04	6	0.431	1.7071	1.4842	106.7908
5.8	68.9	0.09	-0.1	2.17	68.8988	0.1306	6	1.69006	102.9758	0.3111	0	0.3111	220.47	0.1312	-1E-04	6	0.4262	1.6849	1.4711	109.2195
5.9	65.7	0.08	-0.05	2.63	65.6994	0.1218	6	1.70457	101.998	0.3162	0	0.3162	206.78	0.1224	-6E-05	6	0.4317	1.6844	1.4849	104.0808
6	62	0.04	-0.05	3.55	61.9994	0.0645	0	1.7024	96.78491	0.32104	0	0.321	192.12	0.0649	-6E-05	0	0.4307	1.6715	1.4816	97.43156
6.1	67	0.22	-0.05	3.91	66.9994	0.3284	6	1.82372	109.4477	0.32651	0	0.3265	204.2	0.33	-5E-05	6	0.478	1.7542	1.6063	110.532
6.2	65.3	0.91	-0.05	4.29	65.2994	1.3936	5	2.16379	119.7738	0.3325	0	0.3325	195.39	1.4007	-6E-05	6	0.604	2.0122	1.9407	123.546
6.3	52.6	0.91	-0.05	4.29	52.5994	1.7301	5	2.29596	119.2463	0.33846	0	0.3385	154.41	1.7413	-7E-05	5	0.6505	2.0989	2.0614	103.6681
6.4	23.9	0.92	-0.05	3.82	23.8994	3.8495	4	2.78164	117.4023	0.34433	0	0.3443	68.408	3.9057	-2E-04	4	0.8185	2.5065	2.5005	55.79905
6.5	20.5	0.87	-0.13	3.9	20.4984	4.2442	3	2.8599	116.619	0.35016	0	0.3502	57.54	4.318	-5E-04	4	0.8467	2.5507	2.5736	48.56946
6.6	11.2	0.85	-0.05	3.97	11.1994	7.5897	3	3.22345	114.9745	0.35591	0	0.3559	30.467	7.8388	-3E-04	3	0.9755	2.8946	2.9088	29.66425
6.7	10.5	0.04	-0.05	4.02	10.4994	0.381	5	2.5998	92.45372	0.36053	0	0.3605	28.122	0.3945	-4E-04	5	0.7393	2.2165	2.293	21.23895
6.8	9.3	0.03	-0.05	4.06	9.29939	0.3226	5	2.62907	90.05273	0.36504	0	0.365	24.475	0.3358	-4E-04	5	0.7499	2.2212	2.3201	18.75498

6.9	9.5	0.03	0.02	4.11	9.50024	0.3158	5	2.61759	90.10485	0.36954	0	0.3695	24.708	0.3286	0.0002	5	0.7474	2.1951	2.313	18.94245
7	9.7	0.03	0.02	4.16	9.70024	0.3093	5	2.60641	90.15567	0.37405	0	0.3741	24.933	0.3217	0.0002	5	0.745	2.17	2.3061	19.12606
7.1	9.4	0.03	0.02	4.21	9.40024	0.3191	5	2.62327	90.07904	0.37855	0	0.3786	23.832	0.3325	0.0002	5	0.7525	2.1672	2.3249	18.47827
7.2	9.7	0.05	0.02	4.24	9.70024	0.5155	4	2.6754	93.89337	0.38325	0	0.3833	24.311	0.5367	0.0002	5	0.7744	2.1956	2.3813	19.33333
7.3	10.8	0.07	0.02	4.24	10.8002	0.6481	4	2.66858	96.61733	0.38808	0	0.3881	26.83	0.6723	0.0001	5	0.7751	2.1758	2.3821	21.41084
7.4	12.1	0.08	0.02	4.24	12.1002	0.6611	4	2.62653	97.87159	0.39297	0	0.393	29.792	0.6833	0.0001	5	0.7624	2.128	2.3483	23.54446
7.5	13.4	0.07	0.02	4.18	13.4002	0.5224	5	2.54646	97.14343	0.39783	0	0.3978	32.683	0.5384	0.0001	5	0.7352	2.0526	2.2764	25.22364
7.6	14	0.06	0.02	4.09	14.0002	0.4286	5	2.49818	96.12235	0.40264	0	0.4026	33.771	0.4413	0.0001	5	0.719	2.0031	2.2335	25.74119
7.7	14.4	0.06	0.02	4.02	14.4002	0.4167	5	2.48251	96.19105	0.40745	0	0.4075	34.343	0.4288	0.0001	5	0.7149	1.9784	2.2222	26.16258
7.8	14.5	0.05	0.02	4	14.5002	0.3448	5	2.45307	94.87389	0.41219	0	0.4122	34.179	0.3549	0.0001	5	0.7053	1.9443	2.1964	25.88646
7.9	14.3	0.04	0.02	4	14.3002	0.2797	5	2.43235	93.20727	0.41685	0	0.4169	33.306	0.2881	0.0001	5	0.6985	1.9168	2.1782	25.15044
8	13.8	0.04	0.02	4.02	13.8002	0.2899	5	2.45147	93.12047	0.42151	0	0.4215	31.74	0.299	0.0001	5	0.7066	1.9162	2.1986	24.22852
8.1	12.8	0.03	0.02	4	12.8002	0.2344	5	2.45911	90.83203	0.42605	0	0.4261	29.044	0.2424	0.0001	5	0.7097	1.9071	2.2061	22.30248
8.2	11.6	0.03	0.02	3.99	11.6002	0.2586	5	2.51107	90.59194	0.43058	0	0.4306	25.941	0.2686	0.0001	5	0.7294	1.9267	2.257	20.33852
8.3	10.5	0.02	0.02	4	10.5002	0.1905	5	2.52333	87.38216	0.43495	0	0.435	23.141	0.1987	0.0001	5	0.7339	1.9202	2.2683	18.26631
8.4	9.8	0.02	-0.05	4.01	9.79939	0.2041	1	2.55879	87.36	0.43931	0	0.4393	21.306	0.2137	-4E-04	5	0.7479	1.9298	2.3043	17.07094
8.5	9.8	0.02	-0.05	4.02	9.79939	0.2041	1	2.55879	87.36	0.44368	0	0.4437	21.087	0.2138	-4E-04	5	0.7492	1.9178	2.3072	16.95684
8.6	10.1	0.03	-0.05	4.03	10.0994	0.2971	5	2.58482	90.25402	0.44819	0	0.4482	21.533	0.3108	-4E-04	5	0.761	1.9227	2.3373	17.53717
8.7	10.3	0.04	-0.05	4.04	10.2994	0.3884	5	2.61033	92.40681	0.45282	0	0.4528	21.745	0.4062	-4E-04	5	0.7724	1.9263	2.3664	17.92559
8.8	10.9	0.05	-0.05	4.07	10.8994	0.4587	4	2.61049	94.17765	0.45752	0	0.4575	22.823	0.4788	-3E-04	5	0.7745	1.9143	2.3713	18.89151
8.9	11.8	0.06	-0.05	4.1	11.7994	0.5085	5	2.59371	95.70521	0.46231	0	0.4623	24.523	0.5292	-3E-04	5	0.7704	1.8926	2.3599	20.27781
9	13.5	0.07	-0.05	4.07	13.4994	0.5185	5	2.54231	97.16141	0.46717	0	0.4672	27.896	0.5371	-3E-04	5	0.7539	1.8521	2.3157	22.8112
9.1	16.2	0.08	-0.05	4.1	16.1994	0.4939	5	2.4609	98.58316	0.4721	0	0.4721	33.314	0.5087	-2E-04	5	0.7265	1.7974	2.2435	26.71573
9.2	21.4	0.1	-0.05	4.08	21.3994	0.4673	5	2.33984	100.8949	0.47714	0	0.4771	43.849	0.478	-2E-04	5	0.6856	1.7263	2.1354	34.13494
9.3	29.3	0.13	-0.05	4.11	29.2994	0.4437	5	2.20529	103.581	0.48232	0	0.4823	59.747	0.4511	-1E-04	6	0.6402	1.6536	2.0159	45.03556
9.4	37.9	0.17	-0.05	4.12	37.8994	0.4486	5	2.10493	106.1716	0.48763	0	0.4876	76.722	0.4544	-1E-04	6	0.6071	1.6005	1.9284	56.59033
9.5	44.5	0.22	-0.05	4.12	44.4994	0.4944	6	2.06007	108.4497	0.49305	0	0.4931	89.253	0.4999	-8E-05	6	0.5936	1.5735	1.8922	65.44236
9.6	47.6	0.26	-0.05	4.14	47.5994	0.5462	6	2.05373	109.8362	0.49854	0	0.4985	94.477	0.552	-8E-05	6	0.5933	1.5629	1.8906	69.56883
9.7	47	0.3	-0.05	4.14	46.9994	0.6383	5	2.09092	110.8524	0.50409	0	0.5041	92.237	0.6452	-8E-05	6	0.6083	1.57	1.9291	68.98747
9.8	45.7	0.3	-0.05	4.13	45.6994	0.6565	5	2.10752	110.784	0.50963	0	0.5096	88.673	0.6639	-8E-05	6	0.6153	1.5676	1.9467	66.948
9.9	43.9	0.3	-0.05	4.15	43.8994	0.6834	5	2.13131	110.6859	0.51516	0	0.5152	84.215	0.6915	-8E-05	6	0.6249	1.568	1.971	64.28885
10	41.1	0.29	-0.05	4.15	41.0994	0.7056	5	2.16306	110.2771	0.52067	0	0.5207	77.935	0.7147	-9E-05	6	0.6372	1.5712	2.0025	60.25455
10.1	38.7	0.28	-0.05	4.15	38.6994	0.7235	5	2.19117	109.8736	0.52617	0	0.5262	72.55	0.7335	-9E-05	6	0.6482	1.5727	2.0306	56.73894
10.2	37.5	0.27	-0.05	4.18	37.4994	0.72	5	2.20205	109.5307	0.53164	0	0.5316	69.535	0.7304	-1E-04	6	0.653	1.5674	2.0426	54.76269
10.3	35.5	0.27	-0.05	4.18	35.4994	0.7606	5	2.23447	109.397	0.53711	0	0.5371	65.093	0.7723	-1E-04	5	0.6658	1.5705	2.0753	51.89312
10.4	32.6	0.27	-0.08	4.18	32.599	0.8283	5	2.28496	109.1891	0.54257	0	0.5426	59.082	0.8423	-2E-04	5	0.685	1.5802	2.1251	47.87259
10.5	31.3	0.28	-0.13	4.19	31.2984	0.8946	5	2.31706	109.3559	0.54804	0	0.548	56.11	0.9106	-3E-04	5	0.6979	1.5827	2.158	45.99493
10.6	32.5	0.31	-0.09	4.21	32.4989	0.9539	5	2.31727	110.1925	0.55355	0	0.5536	57.71	0.9704	-2E-04	5	0.6995	1.5733	2.1616	47.50084
10.7	40.6	0.38	-0.05	4.21	40.5994	0.936	5	2.23073	112.225	0.55916	0	0.5592	71.608	0.9491	-9E-05	5	0.6704	1.5335	2.0845	58.03076
10.8	61.3	0.47	-0.13	4.23	61.2984	0.7667	6	2.03332	114.7852	0.5649	0	0.5649	107.51	0.7739	-2E-04	6	0.6016	1.4587	1.9034	83.72847
10.9	82.2	0.58	-0.13	4.22	82.1984	0.7056	6	1.90714	117.0395	0.57075	0	0.5708	143.02	0.7105	-1E-04	6	0.5585	1.4116	1.7893	108.8976
11	89.3	0.61	-0.13	4.24	89.2984	0.6831	6	1.86947	117.6105	0.57663	0	0.5766	153.86	0.6875	-1E-04	6	0.5462	1.3931	1.7564	116.813
11.1	91.5	0.57	-0.13	4.24	91.4984	0.623	6	1.83836	117.1736	0.58249	0	0.5825	156.08	0.627	-1E-04	6	0.5357	1.3768	1.7281	118.2994
11.2	89.8	0.61	-0.13	4.23	89.7984	0.6793	6	1.8661	117.6242	0.58837	0	0.5884	151.62	0.6838	-1E-04	6	0.5469	1.3785	1.7567	116.2182
11.3	82.5	0.61	-0.13	4.24	82.4984	0.7394	6	1.91729	117.4174	0.59424	0	0.5942	137.83	0.7448	-1E-04	6	0.5662	1.3864	1.8067	107.3138
11.4	72.8	0.54	-0.06	4.26	72.7993	0.7418	6	1.96301	116.2204	0.60005	0	0.6001	120.32	0.7479	-6E-05	6	0.5831	1.392	1.8503	94.98395
11.5	66.6	0.46	-0.11	4.23	66.5987	0.6907	6	1.97852	114.8301	0.6058	0	0.6058	108.94	0.6971	-1E-04	6	0.5891	1.3889	1.8651	86.6235
11.6	59.2	0.42	-0.07	4.25	59.1991	0.7095	6	2.02803	113.8772	0.61149	0	0.6115	95.811	0.7169	-9E-05	6	0.6076	1.3954	1.913	77.26098
11.7	50.5	0.4	-0.12	4.24	50.4985	0.7921	5	2.11193	113.1325	0.61715	0	0.6172	80.826	0.8019	-2E-04	6	0.6388	1.4111	1.9941	66.52232
11.8	42.7	0.4	-0.13	4.25	42.6984	0.9368	5	2.21246	112.7233	0.62278	0	0.6228	67.561	0.9507	-2E-04	5	0.6763	1.4311	2.0919	56.90891
11.9	38	0.42	-0.13	4.26	37.9984	1.1053	5	2.29406	112.7958	0.62842	0	0.6284	59.466	1.1239	-3E-04	5	0.7073	1.4456	2.1724	51.05432
12	35.4	0.45	-0.25	4.26	35.3969	1.2713	5	2.35348	113.1277	0.63408	0	0.6341	54.824	1.2945	-5E-04	5	0.7303	1.4535	2.2321	47.75221
12.1	32.5	0.47	-0.15	4.26	32.4982	1.4462	5	2.41579	113.2375	0.63974	0	0.6397	49.799	1.4753	-3E-04	5	0.7544	1.4617	2.2945	44.0093
12.2	30.4	0.49	-0.07	4.26	30.3991	1.6119	5	2.4666	113.3795	0.64541	0	0.6454	46.101	1.6469	-2E-04	5	0.7743	1.4663	2.3461	41.2332
12.3	26.3	0.53	-0.05	4.24	26.2994	2.0153	4	2.57439	113.6004	0.65109	0	0.6511	39.393	2.0664	-1E-04	5	0.8154	1.4858	2.4533	36.01542
12.4	24.1	0.54	-0.05	4.24	24.0994	2.2407	4	2.63228	113.5241	0.65677	0	0.6568	35.694	2.3035	-2E-04	4	0.8381	1.4914	2.512	33.0412
12.5	23.2	0.51	0.01	4.25	23.2001	2.1983	4	2.64063	113.0131	0.66242	0	0.6624	34.023	2.2629	3E-05	4	0.8422	1.4836	2.5222	31.60018
12.6	23.2	0.5	-0.04	4.26	23.1995	2.1552	4	2.63556	112.8681	0.66806	0	0.6681	33.727	2.2191	-1E-04	4	0.8421	1.4729	2.5195	31.3644
12.7	23.4	0.5	-0.05	4.24	23.3994	2.1368	4	2.63036	112.8891	0.6737	0	0.6737	33.732	2.2002	-2E-04	4	0.8413	1.462	2.5168	31.40035
12.8	24.1	0.48	0.01	4.24	24.1001	1.9917	4	2.60206	112.6623	0.67934	0	0.6793	34.476	2.0495	3E-05	5	0.8313	1.4454	2.4914	31.9924
12.9	25.7	0.46	-0.04	4.25	25.6995	1.7899	4	2.55241	112.5076	0.68496	0	0.685	36.52	1.8389	-1E-04	5	0.8139	1.4247	2.4449	33.67979
13	28.9	0.46	-0.11	4.29	28.8987	1.5918	5	2.48143	112.7938	0.6906	0	0.6906	40.846	1.6307	-3E-04	5	0.7886	1.4	2.3779	37.322
13.1	35.5	0.49	-0.19	4.28	35.4977	1.3804	5	2.37276	113.7577	0.69629	0	0.6963	49.981	1.408	-4E-04	5	0.7495	1.3684	2.2746	45.00626
13.2	44.9	0.53	-0.2	4.28	44.8976	1.1805	5	2.25022	114.9048	0.70204	0	0.702	62.953	1.1992	-3E-04	5	0.7054	1.3356	2.1581	55.7859
13.3	54.2	0.53	-0.14	4.29	54.1983	0.9779	5	2.13643	115.364	0.7078	0	0.7078	75.572	0.9908	-2E-04	6	0.6644	1.3062	2.0499	66.0329
13.4	61.4	0.54	-0.07	4.3	61.3991	0.8795	5	2.0657	115.805	0.71359	0	0.7136	85.042	0.8898	-8E-05	6	0.6393	1.2864	1.9834	73.77906
13.5	68.1	0.56	-0.05	4.3	68.0994	0.8223	6	2.0121	116.3238	0.71941	0	0.7194	93.66	0.8311	-5E-05	6	0.6206	1.2705	1.9336	80.90764
13.6	77	0.6	-0.05	4.31	76.9994	0.7792	6	1.95489	117.1282	0.72527	0	0.7253	105.17	0.7866	-5E-05	6	0.6007	1.2547	1.8804	90.44301
13.7	91	0.63	-0.12	4.33	90.9985	0.6923	6	1.86601	117.8926	0.73116	0	0.7312	123.46	0.6979	-1E-04	6	0.569	1.234	1.7965	105.276
13.8	103.5	0.65	-0.13	4.35	103.498	0.628	6	1.79596	118.4352	0.73708	0	0.7371	139.42	0.6325	-9E-05	6	0.5441	1.2174	1.7306	118.2322
13.9	112.6	0.67	-0.07	4.35	112.599	0.595	6	1.75253	118.8625	0.74303	0	0.743	150.54	0.599	-5E-05	6	0.5291	1.2057	1.6903	127.4542

14	117.4	0.68	-0.05	4.35	117.399	0.5792	6	1.73096	119.0727	0.74898	0	0.749	155.75	0.5829	-3E-05	6	0.522	1.1976	1.671	132.0335
14.1	118.7	0.61	-0.05	4.37	118.699	0.5139	6	1.69799	118.3047	0.7549	0	0.7549	156.24	0.5172	-3E-05	6	0.5104	1.1881	1.6398	132.4313
14.2	117.6	0.53	-0.05	4.37	117.599	0.4507	6	1.67086	117.2534	0.76076	0	0.7608	153.58	0.4536	-3E-05	6	0.5009	1.1797	1.614	130.2625
14.3	116.8	0.56	-0.05	4.39	116.799	0.4795	6	1.68758	117.6396	0.76664	0	0.7666	151.35	0.4826	-3E-05	6	0.5079	1.1778	1.6319	129.1604
14.4	115.6	0.58	-0.05	4.41	115.599	0.5017	6	1.70196	117.8712	0.77253	0	0.7725	148.64	0.5051	-3E-05	6	0.5141	1.1755	1.6474	127.5697
14.5	118.8	0.59	0.02	4.43	118.8	0.4966	6	1.68959	118.0628	0.77844	0	0.7784	151.61	0.4999	1E-05	6	0.5104	1.1696	1.6368	130.4571
14.6	118.3	0.62	0.02	4.43	118.3	0.5241	6	1.7039	118.4155	0.78436	0	0.7844	149.82	0.5276	1E-05	6	0.5166	1.1672	1.6523	129.6365
14.7	119.3	0.64	0.02	4.45	119.3	0.5365	6	1.70647	118.6683	0.79029	0	0.7903	149.96	0.54	1E-05	6	0.5184	1.1633	1.6563	130.2939
14.8	121.6	0.65	0.02	4.45	121.6	0.5345	6	1.69871	118.8283	0.79623	0	0.7962	151.72	0.5381	1E-05	6	0.5163	1.1581	1.6502	132.2241
14.9	123.9	0.66	0.02	4.46	123.9	0.5327	6	1.69112	118.9857	0.80218	0	0.8022	153.45	0.5362	1E-05	6	0.5143	1.1531	1.6442	134.1437
15	126.2	0.69	0.02	4.47	126.2	0.5468	6	1.69089	119.3558	0.80815	0	0.8082	155.16	0.5503	1E-05	6	0.5151	1.1489	1.6455	136.1523
15.1	128.8	0.72	0.02	4.47	128.8	0.559	6	1.6891	119.717	0.81414	0	0.8141	157.2	0.5626	1E-05	6	0.5153	1.1446	1.6452	138.4485
15.2	130.5	0.76	0.06	4.47	130.501	0.5824	6	1.69471	120.1446	0.82014	0	0.8201	158.12	0.5861	3E-05	6	0.5182	1.1411	1.6522	139.8565
15.3	133.4	0.81	0.1	4.47	133.401	0.6072	6	1.6976	120.6644	0.82618	0	0.8262	160.47	0.611	5E-05	6	0.5202	1.1374	1.6566	142.5052
15.4	138.3	0.85	0.1	4.47	138.301	0.6146	6	1.68813	121.1051	0.83223	0	0.8322	165.18	0.6183	5E-05	6	0.5175	1.1323	1.6488	147.1109
15.5	142.7	0.88	0.1	4.48	142.701	0.6167	6	1.67812	121.4353	0.8383	0	0.8383	169.23	0.6203	5E-05	6	0.5146	1.1273	1.6405	151.1406
15.6	147	0.89	0.1	4.5	147.001	0.6054	6	1.66302	121.5904	0.84438	0	0.8444	173.09	0.6089	5E-05	6	0.5098	1.1219	1.6269	154.9674
15.7	152.3	0.88	0.1	4.51	152.301	0.5778	6	1.63853	121.5941	0.85046	0	0.8505	178.08	0.5811	5E-05	6	0.5013	1.1158	1.6041	159.7006
15.8	159.7	0.88	0.1	4.51	159.701	0.551	6	1.60969	121.7098	0.85655	0	0.8566	185.45	0.554	5E-05	6	0.4913	1.1094	1.577	166.5461
15.9	165.7	0.89	0.1	4.53	165.701	0.5371	6	1.59021	121.8824	0.86264	0	0.8626	191.09	0.5399	4E-05	6	0.4848	1.1041	1.5591	172
16	166.8	0.9	0.1	4.53	166.801	0.5396	6	1.58909	121.9803	0.86874	0	0.8687	191	0.5424	4E-05	6	0.4851	1.1004	1.5592	172.5621
16.1	167.3	0.89	0.15	4.54	167.302	0.532	6	1.58437	121.9059	0.87484	0	0.8748	190.24	0.5348	6E-05	6	0.484	1.0964	1.5557	172.4556
16.2	168.3	0.87	0.17	4.55	168.302	0.5169	6	1.57488	121.7541	0.88092	0	0.8809	190.05	0.5197	7E-05	6	0.4812	1.0922	1.5474	172.8136
16.3	169.1	0.85	0.17	4.55	169.102	0.5027	6	1.56603	121.5955	0.887	0	0.887	189.64	0.5053	7E-05	6	0.4786	1.0881	1.5397	172.9792
16.4	168.9	0.86	0.17	4.56	168.902	0.5092	6	1.56974	121.6782	0.89309	0	0.8931	188.12	0.5119	7E-05	6	0.4807	1.0849	1.5445	172.265
16.5	168.8	0.87	0.17	4.57	168.802	0.5154	6	1.57307	121.7613	0.89918	0	0.8992	186.73	0.5182	7E-05	6	0.4826	1.0817	1.549	171.6501
16.6	168.9	0.88	0.17	4.57	168.902	0.521	6	1.57566	121.8464	0.90527	0	0.9053	185.58	0.5238	7E-05	6	0.4843	1.0785	1.5527	171.2326
16.7	168.7	0.88	0.17	4.57	168.702	0.5216	6	1.57638	121.8435	0.91136	0	0.9114	184.11	0.5245	7E-05	6	0.4853	1.0752	1.5545	170.4929
16.8	167.2	0.89	0.17	4.59	167.202	0.5323	6	1.58473	121.9044	0.91746	0	0.9175	181.25	0.5352	7E-05	6	0.4894	1.0723	1.5639	168.5141
16.9	164.1	0.89	0.17	4.6	164.102	0.5424	6	1.5961	121.8588	0.92355	0	0.9236	176.69	0.5454	8E-05	6	0.4944	1.0696	1.5762	164.9432
17	160	0.89	0.19	4.61	160.002	0.5562	6	1.61148	121.7971	0.92964	0	0.9296	171.11	0.5595	9E-05	6	0.5009	1.067	1.5926	160.4062
17.1	155	0.86	0.25	4.61	155.003	0.5548	6	1.62189	121.4687	0.93571	0	0.9357	164.65	0.5582	0.0001	6	0.5055	1.0641	1.604	154.9408
17.2	149.2	0.75	0.25	4.63	149.203	0.5027	6	1.61033	120.3743	0.94173	0	0.9417	157.44	0.5059	0.0001	6	0.5017	1.0602	1.5934	148.5547
17.3	141.9	0.75	0.18	4.63	141.902	0.5285	6	1.64067	120.252	0.94774	0	0.9477	148.73	0.5321	9E-05	6	0.5139	1.0582	1.6247	140.9721
17.4	129	0.73	0.23	4.64	129.003	0.5659	6	1.69158	119.8217	0.95373	0	0.9537	134.26	0.5701	0.0001	6	0.5339	1.057	1.6764	127.9164
17.5	115.3	0.71	0.3	4.65	115.304	0.6158	6	1.75257	119.3447	0.9597	0	0.9597	119.15	0.6209	0.0002	6	0.5577	1.056	1.7384	114.1112
17.6	100.9	0.75	0.32	4.65	100.904	0.7433	6	1.84731	119.4203	0.96567	0	0.9657	103.49	0.7505	0.0002	6	0.5945	1.0559	1.8342	99.72497
17.7	84.2	0.85	0.34	4.65	84.2042	1.0095	6	1.99017	119.8949	0.97167	0	0.9717	85.66	1.0212	0.0003	6	0.6497	1.0569	1.9783	83.14005
17.8	63.5	0.94	0.39	4.67	63.5048	1.4802	5	2.18973	119.9432	0.97766	0	0.9777	63.956	1.5034	0.0005	5	0.7268	1.0592	2.18	62.58887
17.9	43.1	0.93	0.32	4.67	43.1039	2.1576	5	2.42373	118.9198	0.98361	0	0.9836	42.822	2.208	0.0006	5	0.8178	1.0615	2.418	42.25619
18	32	0.9	0.32	4.67	32.0039	2.8122	4	2.59675	117.9537	0.98951	0	0.9895	31.343	2.9019	0.0007	4	0.886	1.0612	2.5963	31.10457
18.1	27.6	0.89	0.32	4.68	27.6039	3.2242	4	2.68413	117.5112	0.99538	0	0.9954	26.732	3.3448	0.0009	4	0.9212	1.0579	2.688	26.60345
18.2	25.6	0.83	0.32	4.7	25.6039	3.2417	4	2.7107	116.817	1.00122	0	1.0012	24.573	3.3736	0.0009	4	0.9328	1.0529	2.7179	24.48159
18.3	23.2	0.71	0.46	4.72	23.2056	3.0596	4	2.72794	115.4345	1.007	0	1.007	22.044	3.1984	0.0015	4	0.9413	1.0477	2.7393	21.98039
18.4	21	0.58	0.65	4.73	21.008	2.7609	4	2.73446	113.7121	1.01268	0	1.0127	19.745	2.9007	0.0023	4	0.9457	1.0424	2.7503	19.6979
18.5	20.2	0.51	0.87	4.74	20.2107	2.5234	4	2.7244	112.6766	1.01832	0	1.0183	18.847	2.6573	0.0033	4	0.9433	1.0368	2.7432	18.80622
18.6	23.3	0.49	1.09	4.75	23.3133	2.1018	4	2.62743	112.7323	1.02395	0	1.024	21.768	2.1984	0.0035	4	0.9059	1.0302	2.6443	21.70086
18.7	38.2	0.52	1.15	4.76	38.2141	1.3608	5	2.343	114.3724	1.02967	0	1.0297	36.113	1.3984	0.0022	5	0.7947	1.0219	2.3519	35.91152
18.8	62.1	0.57	0.35	4.76	62.1043	0.9178	5	2.07212	116.2285	1.03548	0	1.0355	58.976	0.9334	0.0004	5	0.6903	1.015	2.077	58.58268
18.9	82.1	0.59	0.26	4.76	82.1032	0.7186	6	1.91201	117.1617	1.04134	0	1.0413	77.844	0.7278	0.0002	6	0.6293	1.0101	1.9161	77.38412
19	92.6	0.59	0.3	4.76	92.6037	0.6371	6	1.83943	117.4553	1.04721	0	1.0472	87.429	0.6444	0.0002	6	0.6021	1.0063	1.844	87.06935
19.1	93.2	0.64	0.32	4.76	93.2039	0.6867	6	1.85543	118.0662	1.05312	0	1.0531	87.503	0.6945	0.0003	6	0.6089	1.0029	1.8613	87.3413
19.2	83.4	0.76	0.3	4.77	83.4037	0.9112	6	1.96645	119.0527	1.05907	0	1.0591	77.752	0.923	0.0003	6	0.6523	0.9994	1.9744	77.77644
19.3	65.6	0.95	0.25	4.78	65.6031	1.4481	5	2.17278	120.0999	1.06507	0	1.0651	60.595	1.472	0.0003	5	0.7326	0.9952	2.1844	60.70127
19.4	46.7	1.1	0.25	4.78	46.7031	2.3553	5	2.42196	120.3438	1.07109	0	1.0711	42.603	2.4106	0.0004	5	0.8301	0.9899	2.4395	42.69165
19.5	33	1.1	0.25	4.78	33.0031	3.333	4	2.63476	119.4969	1.07707	0	1.0771	29.642	3.4455	0.0006	4	0.9145	0.9839	2.6604	29.68668
19.6	26.6	1.05	0.25	4.78	26.6031	3.9469	4	2.75355	118.6308	1.083	0	1.083	23.564	4.1144	0.0007	3	0.9628	0.9779	2.7863	23.5847
19.7	22	0.96	0.25	4.78	22.0031	4.363	3	2.84431	117.5121	1.08887	0	1.0889	19.207	4.5902	0.0009	3	1	0.9718	2.8848	19.20719
19.8	19.6	0.83	0.2	4.8	19.6025	4.2342	3	2.87408	116.1656	1.09468	0	1.0947	16.907	4.4846	0.0008	3	1	0.9666	2.9206	16.90699
19.9	15.4	0.67	0.27	4.8	15.4033	4.3497	3	2.96239	114.0107	1.10038	0	1.1004	12.998	4.6844	0.0014	3	1	0.9616	3.0209	12.99815
20	14.7	0.52	0.28	4.8	14.7034	3.5366	3	2.9229	112.0428	1.10598	0	1.106	12.294	3.8243	0.0015	3	1	0.9567	2.9858	12.29443
20.1	15.7	0.37	0.28	4.8	15.7034	2.3562	4	2.79614	109.7131	1.11147	0	1.1115	13.129	2.5356	0.0014	4	0.9915	0.9524	2.8579	13.13405
20.2	15.8	0.34	0.35	4.8	15.8043	2.1513	4	2.77153	109.11	1.11692	0	1.1169	13.15	2.3149	0.0017	4	0.9829	0.9482	2.8349	13.16201
20.3	15.6	0.34	0.42	4.8	15.6051	2.1788	4	2.77918	109.0791	1.12238	0	1.1224	12.904	2.3476	0.0021	4	0.987	0.9435	2.8451	12.9135
20.4	15.4	0.36	0.49	4.81	15.406	2.3368	4	2.80093	109.466	1.12785	0	1.1279	12.66	2.5213	0.0025	4	0.9967	0.9384	2.8696	12.6623
20.5	16.9	0.38	0.62	4.82	16.9076	2.2475	4	2.75809	110.0885	1.13336	0	1.1334	13.918	2.409	0.0028	4	0.9795	0.9349	2.8241	13.93775
20.6	17.2	0.39	0.73	4.82	17.2089	2.2663	4	2.75385	110.3216	1.13887	0	1.1389	14.111	2.4269	0.0033	4	0.9786	0.9306	2.8209	14.13274
20.7	17.3	0.39	0.76	4.82	17.3093	2.2531	4	2.75033	110.3358	1.14439	0	1.1444	14.125	2.4126	0.0034	4	0.9781	0.9262	2.819	14.1496
20.8	16.8	0.37	0.7	4.83	16.8086	2.2013	4	2.75505	109.879	1.14988	0	1.1499	13.618	2.3629	0.0032	4	0.9815	0.9216	2.8271	13.63865
20.9	15.2	0.34	0.7	4.84	15.2086	2.2356	4	2.7947	109.0163	1.15533	0	1.1553	12.164	2.4194	0.0036	4	0.9996	0.9159	2.874	12.16423
21	13.1	0.29	0.77	4.84	13.1094	2.2122	4	2.84579	107.4902	1.16071	0	1.1607	10.294	2.427	0.0046	3	1	0.9116	2.9352	10.29433

21.1	11.6	0.24	0.89	4.86	11.6109	2.067	4	2.87412	105.8094	1.166	0	1.166	8.9579	2.2978	0.0061	3	1	0.9075	2.9732	8.95789
21.2	10.7	0.2	0.97	4.86	10.7119	1.8671	4	2.88065	104.2788	1.17121	0	1.1712	8.146	2.0963	0.0073	3	1	0.9034	2.9875	8.14596
21.3	10.3	0.17	1	4.86	10.3122	1.6485	4	2.86731	102.997	1.17636	0	1.1764	7.7662	1.8608	0.0079	3	1	0.8995	2.979	7.76621
21.4	10.1	0.16	1.03	4.86	10.1126	1.5822	4	2.86579	102.5057	1.18149	0	1.1815	7.5592	1.7915	0.0083	3	1	0.8956	2.981	7.55921
21.5	10.3	0.16	1.08	4.86	10.3132	1.5514	4	2.85415	102.5536	1.18662	0	1.1866	7.6913	1.7531	0.0085	3	1	0.8917	2.9698	7.69129
21.6	10.7	0.18	1.09	4.86	10.7133	1.6802	4	2.85715	103.5083	1.19179	0	1.1918	7.9893	1.8905	0.0082	3	1	0.8878	2.9718	7.98928
21.7	11.2	0.22	1.15	4.86	11.2141	1.9618	4	2.8749	105.088	1.19705	0	1.1971	8.3681	2.1963	0.0083	3	1	0.8839	2.988	8.36813
21.8	12.9	0.27	1.15	4.84	12.9141	2.0907	4	2.83786	106.9307	1.20239	0	1.2024	9.7403	2.3054	0.0071	3	1	0.88	2.9432	9.74032
21.9	15.8	0.31	1.21	4.84	15.8148	1.9602	4	2.74886	108.4358	1.20781	0	1.2078	12.094	2.1223	0.006	4	0.9909	0.8771	2.8443	12.10829
22	17	0.34	1.23	4.84	17.0151	1.9982	4	2.72703	109.2901	1.21328	0	1.2133	13.024	2.1517	0.0056	4	0.9818	0.8743	2.8202	13.05648
22.1	16.5	0.37	1.27	4.84	16.5155	2.2403	4	2.76567	109.8361	1.21877	0	1.2188	12.551	2.4188	0.006	4	0.9983	0.8684	2.8626	12.55408
22.2	15.9	0.4	1.3	4.84	15.9159	2.5132	4	2.80742	110.3164	1.22429	0	1.2243	12	2.7226	0.0064	3	1	0.8643	2.9077	12.00016
22.3	15.9	0.36	1.34	4.84	15.9164	2.2618	4	2.78124	109.5455	1.22976	0	1.2298	11.943	2.4512	0.0066	3	1	0.8604	2.8838	11.94265
22.4	15.7	0.33	1.42	4.84	15.7174	2.0996	4	2.76761	108.8782	1.23521	0	1.2352	11.724	2.2787	0.0071	4	1	0.8566	2.8729	11.72449
22.5	15.4	0.31	1.45	4.84	15.4178	2.0107	4	2.76415	108.3737	1.24063	0	1.2406	11.427	2.1866	0.0074	4	1	0.8529	2.8724	11.42739
22.6	15.2	0.32	1.45	4.84	15.2178	2.1028	4	2.77964	108.5742	1.24605	0	1.2461	11.213	2.2904	0.0075	3	1	0.8492	2.8903	11.21274
22.7	15.2	0.36	1.45	4.84	15.2178	2.3657	4	2.80836	109.436	1.25153	0	1.2515	11.159	2.5777	0.0075	3	1	0.8455	2.9204	11.15935
22.8	15.9	0.42	1.45	4.85	15.9178	2.6386	4	2.81963	110.6736	1.25706	0	1.2571	11.663	2.8648	0.0071	3	1	0.8417	2.9305	11.66268
22.9	19.6	0.5	1.46	4.86	19.6179	2.5487	4	2.73737	112.4591	1.26268	0	1.2627	14.537	2.724	0.0057	4	0.9916	0.8392	2.8393	14.55817
23	28.3	0.57	1.52	4.86	28.3186	2.0128	4	2.54826	114.3132	1.2684	0	1.2684	21.326	2.1072	0.0041	4	0.9136	0.8474	2.634	21.66307
23.1	38.9	0.67	0.93	4.85	38.9114	1.7219	5	2.39726	116.2709	1.27421	0	1.2742	29.538	1.7802	0.0018	5	0.8523	0.8535	2.4725	30.3595
23.2	39.8	0.88	-1.2	4.84	39.7853	2.2119	5	2.45739	118.32	1.28013	0	1.2801	30.079	2.2854	-0.002	4	0.8759	0.8463	2.5336	30.79875
23.3	32.8	0.99	-2	4.84	32.7755	3.0206	4	2.60896	118.7091	1.28606	0	1.2861	24.485	3.1439	-0.005	4	0.9373	0.8329	2.6942	24.78655
23.4	24.3	0.89	-2.18	4.84	24.2733	3.6666	4	2.76282	117.1976	1.29192	0	1.2919	17.789	3.8727	-0.007	3	1	0.819	2.863	17.7885
23.5	20.9	0.76	-2.6	4.86	20.8682	3.6419	3	2.8114	115.6735	1.29771	0	1.2977	15.081	3.8834	-0.01	3	1	0.8154	2.9197	15.0808
23.6	25.7	0.74	-2.76	4.86	25.6662	2.8832	4	2.67766	115.9832	1.30351	0	1.3035	18.69	3.0374	-0.008	4	0.9702	0.8168	2.7784	18.80669
23.7	31.4	0.89	-2.64	4.85	31.3677	2.8373	4	2.60592	117.8229	1.3094	0	1.3094	22.956	2.9609	-0.006	4	0.9403	0.8184	2.6993	23.24952
23.8	29.3	0.92	-3.96	4.86	29.2515	3.1451	4	2.65793	117.8951	1.31529	0	1.3153	21.24	3.2932	-0.01	4	0.9622	0.8111	2.7561	21.41477
23.9	22.4	0.81	-5.2	4.86	22.3364	3.6264	4	2.78743	116.3056	1.32111	0	1.3211	15.907	3.8543	-0.018	3	1	0.8009	2.8995	15.90729
24	17.2	0.74	-5.94	4.88	17.1273	4.3206	3	2.9248	114.9966	1.32686	0	1.3269	11.908	4.6834	-0.027	3	1	0.7975	3.0506	11.90816
24.1	15.1	0.75	-6.14	4.86	15.0249	4.9917	3	3.00857	114.7754	1.3326	0	1.3326	10.275	5.4776	-0.032	3	1	0.794	3.1431	10.27487
24.2	16.1	0.79	-6.08	4.88	16.0256	4.9296	3	2.98356	115.3128	1.33836	0	1.3384	10.974	5.3788	-0.03	3	1	0.7906	3.1158	10.97402
24.3	17.3	0.72	-6.1	4.89	17.2253	4.1799	3	2.91378	114.81	1.3441	0	1.3441	11.815	4.5337	-0.028	3	1	0.7872	3.0446	11.81549
24.4	15.6	0.62	-6.11	4.89	15.5252	3.9935	3	2.93656	113.4624	1.34978	0	1.3498	10.502	4.3738	-0.031	3	1	0.7839	3.0756	10.50207
24.5	13.8	0.49	-6.08	4.88	13.7256	3.57	3	2.9492	111.4402	1.35535	0	1.3554	9.127	3.9611	-0.035	3	1	0.7807	3.0989	9.12698
24.6	12.3	0.41	-6.03	4.88	12.2262	3.3535	3	2.97347	109.8538	1.36084	0	1.3608	7.9843	3.7735	-0.04	3	1	0.7775	3.134	7.9843
24.7	11.1	0.35	-6	4.88	11.0266	3.1742	3	2.99612	108.4442	1.36626	0	1.3663	7.0706	3.6231	-0.045	3	1	0.7745	3.1674	7.0706
24.8	11	0.31	-5.94	4.88	10.9273	2.8369	3	2.97161	107.5341	1.37164	0	1.3716	6.9666	3.2442	-0.045	3	1	0.7714	3.1461	6.96659
24.9	12	0.29	-5.93	4.88	11.9274	2.4314	3	2.90265	107.2597	1.377	0	1.377	7.6619	2.7487	-0.04	3	1	0.7684	3.0722	7.66187
25	12.3	0.27	-5.93	4.88	12.2274	2.2082	4	2.87068	106.7974	1.38234	0	1.3823	7.8454	2.4896	-0.039	3	1	0.7655	3.0405	7.84543
25.1	11.9	0.29	-5.93	4.9	11.8274	2.4519	3	2.90772	107.2392	1.3877	0	1.3877	7.523	2.7779	-0.041	3	1	0.7625	3.0814	7.52301
25.2	16.5	0.38	-5.88	4.9	16.428	2.3131	4	2.77548	110.0183	1.39321	0	1.3932	10.792	2.5275	-0.028	3	1	0.7595	2.9277	10.79154
25.3	22.2	0.44	-5.94	4.9	22.1273	1.9885	4	2.63186	111.8174	1.3988	0	1.3988	14.819	2.1227	-0.021	4	0.9708	0.7626	2.7682	14.94001
25.4	20.4	0.44	-6.05	4.89	20.326	2.1647	4	2.68328	111.6103	1.40438	0	1.4044	13.473	2.3254	-0.023	4	0.9937	0.7548	2.8269	13.4975
25.5	14.8	0.43	-6	4.9	14.7266	2.9199	3	2.87276	110.6561	1.40991	0	1.4099	9.445	3.229	-0.032	3	1	0.7505	3.0354	9.44504
25.6	12.1	0.35	-5.96	4.89	12.0271	2.9101	3	2.94359	108.656	1.41534	0	1.4153	7.4976	3.2982	-0.04	3	1	0.7476	3.1235	7.49763
25.7	10.8	0.23	-5.93	4.9	10.7274	2.144	3	2.91166	105.305	1.42061	0	1.4206	6.5513	2.4713	-0.046	3	1	0.7448	3.1054	6.55129
25.8	10.6	0.18	-5.92	4.92	10.5275	1.7098	4	2.86755	103.4656	1.42578	0	1.4258	6.3837	1.9776	-0.047	3	1	0.7421	3.066	6.3837
25.9	10.4	0.14	-5.85	4.92	10.3284	1.3555	4	2.82507	101.5801	1.43086	0	1.4309	6.2183	1.5735	-0.047	3	1	0.7395	3.0282	6.21832
26	9.8	0.11	-5.85	4.92	9.7284	1.1307	4	2.81139	99.66958	1.43584	0	1.4358	5.7754	1.3265	-0.051	3	1	0.7369	3.023	5.77539
26.1	9.5	0.1	-5.85	4.92	9.4284	1.0606	4	2.8111	98.8958	1.44079	0	1.4408	5.5439	1.2519	-0.053	3	1	0.7344	3.0279	5.54392
26.2	9.6	0.13	-5.85	4.93	9.5284	1.3643	4	2.8572	100.8413	1.44583	0	1.4458	5.5903	1.6084	-0.052	3	1	0.7318	3.0736	5.59026
26.3	10.9	0.16	-5.85	4.94	10.8284	1.4776	4	2.8253	102.6725	1.45096	0	1.451	6.4629	1.7062	-0.045	3	1	0.7293	3.0301	6.4629
26.4	14	0.21	-5.85	4.94	13.9284	1.5077	4	2.7351	105.2763	1.45623	0	1.4562	8.5647	1.6838	-0.034	4	1	0.7266	2.9205	8.56471
26.5	21.3	0.33	-5.7	4.96	21.2302	1.5544	4	2.58667	109.6115	1.46171	0	1.4617	13.524	1.6693	-0.021	4	0.9645	0.7322	2.7437	13.68029
26.6	24.9	0.5	-5.7	4.98	24.8302	2.0137	4	2.59435	113.0338	1.46736	0	1.4674	15.922	2.1402	-0.018	4	0.9646	0.7295	2.7432	16.10733
26.7	24.8	0.66	-5.74	4.98	24.7297	2.6689	4	2.66944	115.0554	1.47311	0	1.4731	15.787	2.8379	-0.018	4	0.9945	0.7196	2.8206	15.81612
26.8	20.9	0.69	-5.87	4.98	20.8282	3.3128	4	2.78617	114.9618	1.47886	0	1.4789	13.084	3.566	-0.022	3	1	0.7155	2.9459	13.08392
26.9	18.6	0.67	-5.87	4.98	18.5282	3.6161	3	2.84962	114.4612	1.48458	0	1.4846	11.48	3.9311	-0.025	3	1	0.7127	3.0168	11.48037
27	17	0.56	-5.85	4.99	16.9284	3.3081	3	2.85666	112.9287	1.49023	0	1.4902	10.36	3.6274	-0.027	3	1	0.71	3.0319	10.35959
27.1	15.9	0.43	-5.79	5.01	15.8291	2.7165	4	2.82898	110.8322	1.49577	0	1.4958	9.5826	3	-0.029	3	1	0.7074	3.0121	9.58259
27.2	15.4	0.37	-5.78	5	15.3293	2.4137	4	2.81071	109.6543	1.50125	0	1.5013	9.211	2.6757	-0.03	3	1	0.7048	2.9988	9.21096
27.3	16	0.38	-5.77	5	15.9294	2.3855	4	2.79411	109.9431	1.50675	0	1.5068	9.572	2.6348	-0.029	3	1	0.7022	2.9811	9.572
27.4	16.9	0.42	-5.7	5.01	16.8302	2.4955	4	2.78586	110.8096	1.51229	0	1.5123	10.129	2.7419	-0.027	3	1	0.6997	2.9703	10.12896
27.5	22.4	0.6	-5.7	5.01	22.3302	2.6869	4	2.70625	114.109	1.518	0	1.518	13.71	2.8829	-0.02	3	1	0.697	2.8748	13.71032
27.6	29.3	0.76	-5.75	5	29.2296	2.6001	4	2.60554	116.4954	1.52382	0	1.5238	18.182	2.7431	-0.015	4	0.9736	0.7011	2.7599	18.35781
27.7	28	0.79	-6.09	5.01	27.9255	2.829	4	2.64401	116.6673	1.52966	0	1.5297	17.256	2.9929	-0.017	4	0.9907	0.6941	2.803	17.31551
27.8	20.4	0.7	-6.78	5.02	20.317	3.4454	4	2.80525	115.0065	1.53541	0.00312	1.5323	12.257	3.7271	-0.026	3	1	0.6905	2.9801	12.25725
27.9	14.9	0.6	-6.9	5.02	14.8155	4.0498	3	2.95628	113.1084	1.54106	0.00624	1.5348	8.6489	4.52	-0.038	3	1	0.6894	3.1516	8.64888
28	12.2	0.48	-6.9	5.03	12.1155	3.9619	3	3.0197	110.985	1.54661	0.00936	1.5373	6.8752	4.5416	-0.048	3	1	0.6883	3.2334	6.87522
28.1	11.1	0.35	-6.85	5.04	11.0162	3.1772	3	2.99669	108.4419	1.55203	0.01248	1.5396	6.1473	3.6982	-0.053	3	1	0.6873	3.2228	6.14732

28.2	10.3	0.27	-6.83	5.02	10.2164	2.6428	3	2.97872	106.3592	1.55735	0.0156	1.5418	5.6164	3.1181	-0.059	3	1	0.6863	3.2154	5.61638
28.3	9.9	0.24	-6.83	5.02	9.8164	2.4449	3	2.97479	105.4	1.56262	0.01872	1.5439	5.3461	2.9078	-0.062	3	1	0.6854	3.2176	5.34606
28.4	9.6	0.23	-6.75	5.02	9.51738	2.4166	3	2.98339	105.0131	1.56787	0.02184	1.546	5.1419	2.8933	-0.064	3	1	0.6844	3.2309	5.14188
28.5	9.5	0.24	-6.75	5.04	9.41738	2.5485	3	2.9997	105.2988	1.57314	0.02496	1.5482	5.0668	3.0596	-0.065	3	1	0.6835	3.249	5.06676
28.6	9.7	0.25	-6.71	5.04	9.61787	2.5993	3	2.99669	105.6488	1.57842	0.02808	1.5503	5.1856	3.1097	-0.064	3	1	0.6825	3.2442	5.18561
28.7	10.4	0.22	-6.68	5.04	10.3182	2.1322	3	2.92469	104.8849	1.58366	0.0312	1.5525	5.6263	2.5187	-0.059	3	1	0.6816	3.1663	5.62627
28.8	10.7	0.25	-6.68	5.02	10.6182	2.3544	3	2.93726	105.8902	1.58896	0.03432	1.5546	5.808	2.7688	-0.057	3	1	0.6806	3.1758	5.80797
28.9	10.3	0.33	-6.6	5.02	10.2192	3.2292	3	3.02747	107.8282	1.59435	0.03744	1.5569	5.5397	3.8262	-0.059	3	1	0.6796	3.2686	5.53974
29	11.6	0.35	-6.58	5.02	11.5195	3.0383	3	2.96967	108.5508	1.59978	0.04056	1.5592	6.362	3.5283	-0.052	3	1	0.6786	3.1991	6.36197
29.1	24.8	0.37	-6.53	5.02	24.7201	1.4968	5	2.52243	110.8198	1.60532	0.04368	1.5616	14.802	1.6007	-0.022	4	0.9519	0.6904	2.6981	15.08124
29.2	49.3	0.4	-6.47	5.02	49.2208	0.8127	5	2.12727	113.07	1.61097	0.0468	1.5642	30.438	0.8402	-0.011	5	0.7854	0.7357	2.2611	33.10054
29.3	72.1	0.5	-6.58	5.02	72.0195	0.6943	6	1.95112	115.631	1.61675	0.04992	1.5668	44.933	0.7102	-0.007	6	0.7118	0.7562	2.0676	50.3152
29.4	85.1	0.48	-6.81	5	85.0167	0.5646	6	1.84217	115.737	1.62254	0.05304	1.5695	53.134	0.5756	-0.007	6	0.6678	0.7685	1.9517	60.56958
29.5	90.7	0.55	-7.26	5.02	90.6111	0.607	6	1.83571	116.8885	1.62838	0.05616	1.5722	56.597	0.6181	-0.007	6	0.6647	0.7686	1.9433	64.63251
29.6	102.9	0.67	-8.01	5.04	102.802	0.6517	6	1.80754	118.6405	1.63432	0.05928	1.575	64.232	0.6623	-0.006	6	0.6525	0.7714	1.9107	73.75504
29.7	104.7	0.78	-8.17	5.03	104.6	0.7457	6	1.83557	119.7951	1.64031	0.0624	1.5779	65.251	0.7576	-0.006	6	0.6633	0.7672	1.9388	74.64813
29.8	109.5	0.87	-2.26	5	109.472	0.7947	6	1.83645	120.7051	1.64634	0.06552	1.5808	68.209	0.8069	-0.002	6	0.6634	0.7662	1.9386	78.07955
29.9	117	0	-5.53	5.01	116.932	0	0	0	120.9	1.65239	0.06864	1.5838	72.789	0	-0.004	0	1	0.6681	0	0
30	116.9	0	-6.55	5.04	116.82	0	0	0	120.9	1.65843	0.07176	1.5867	72.581	0	-0.005	0	1	0.6669	0	0

	CPT-8	In situ data							Basic output data										
Depth (ft)	qc (tsf)	fs (tsf)	u (psi)	Other	qt (tsf)	Rf(%)	SBT	Ic SBT	ã (pcf)	ó,v (tsf)	u0 (tsf)	ó',vo (tsf)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.1	10.7	0	-0.02	0.11	10.6998	0	0	0	120.9	0.00605	0	0.0061	1769	0	-1E-04	0	1	175.04	0	0
0.2	21.5	0	-0.03	0.22	21.4996	0	0	0	120.9	0.01209	0	0.0121	1777.3	0	-1E-04	0	1	87.519	0	0
0.3	33.9	0.11	-0.09	0.41	33.8989	0.3245	5	2.09602	102.7143	0.01723	0	0.0172	1966.9	0.3247	-2E-04	6	0.4037	5.2719	1.4419	168.8126
0.4	52.4	0.15	-0.11	0.31	52.3987	0.2863	6	1.89984	106.0458	0.02253	0	0.0225	2324.9	0.2864	-2E-04	6	0.3625	4.0368	1.3512	199.8211
0.5	61.3	0.2	-0.11	0.34	61.2987	0.3263	6	1.85803	108.5334	0.02795	0	0.028	2191.8	0.3264	-1E-04	6	0.367	3.7943	1.3458	219.7126
0.6	63.5	0.24	-0.08	0.44	63.499	0.378	6	1.87029	109.9535	0.03345	0	0.0335	1897.2	0.3782	-9E-05	6	0.3751	3.6531	1.3826	219.1146
0.7	63.9	0.27	0	0.61	63.9	0.4225	6	1.889	110.8307	0.03899	0	0.039	1637.7	0.4228	0	6	0.3884	3.6039	1.4137	217.5117
0.8	64.5	0.3	0.01	0.77	64.5001	0.4651	6	1.90444	111.6244	0.04458	0	0.0446	1446	0.4654	1E-05	6	0.4032	3.5852	1.4377	218.3941
0.9	66.2	0.3	-0.04	0.68	66.1995	0.4532	6	1.88919	111.6878	0.05016	0	0.0502	1318.8	0.4535	-4E-05	6	0.4031	3.4182	1.4382	213.6945
1	69.1	0.29	-0.04	0.56	69.0995	0.4197	6	1.85734	111.5443	0.05574	0	0.0557	1238.7	0.42	-4E-05	6	0.3976	3.2233	1.4237	210.3255
1.1	71.1	0.29	-0.04	0.68	71.0995	0.4079	6	1.84069	111.6139	0.06132	0	0.0613	1158.5	0.4082	-4E-05	6	0.3965	3.0931	1.4209	207.6608
1.2	74.8	0.29	-0.04	0.67	74.7995	0.3877	6	1.81111	111.7377	0.0669	0	0.0669	1117	0.3881	-4E-05	6	0.3913	2.9461	1.4074	208.0755
1.3	83.3	0.3	-0.04	0.68	83.2995	0.3602	6	1.755	112.2482	0.07252	0	0.0725	1147.7	0.3605	-3E-05	6	0.3787	2.7595	1.3741	217.0529
1.4	98.1	0.33	-0.11	0.75	98.0987	0.3364	6	1.67821	113.3445	0.07818	0	0.0782	1253.7	0.3367	-8E-05	6	0.3604	2.5571	1.326	236.8874
1.5	108.6	0.56	-0.11	0.77	108.599	0.5157	6	1.73122	117.462	0.08406	0	0.0841	1291	0.5161	-7E-05	6	0.3835	2.6416	1.3949	270.9055
1.6	110.2	0.72	-0.11	0.71	110.199	0.6534	6	1.7835	119.3366	0.09002	0	0.09	1223.1	0.6539	-7E-05	6	0.4063	2.7216	1.452	283.2153
1.7	106.8	0.83	-0.11	0.72	106.799	0.7772	6	1.8391	120.3004	0.09604	0	0.096	1111	0.7779	-7E-05	6	0.4283	2.7948	1.5082	281.8352
1.8	105.6	0.93	-0.11	0.75	105.599	0.8807	6	1.87624	121.1052	0.10209	0	0.1021	1033.3	0.8816	-8E-05	6	0.4467	2.8419	1.5471	283.3446
1.9	107.8	1.01	-0.16	0.73	107.798	0.9369	6	1.8861	121.7593	0.10818	0	0.1082	995.45	0.9379	-1E-04	6	0.4533	2.8113	1.5647	286.126
2	115.7	1.02	-0.19	0.71	115.698	0.8816	6	1.84559	122.0039	0.11428	0	0.1143	1011.4	0.8825	-1E-04	6	0.4433	2.6819	1.5379	292.9559
2.1	119.7	0.95	-0.19	0.74	119.698	0.7937	6	1.80552	121.5666	0.12036	0	0.1204	993.49	0.7945	-1E-04	6	0.432	2.5578	1.5075	289.0568
2.2	113.7	0.56	-0.11	0.75	113.699	0.4925	6	1.7037	117.574	0.12624	0	0.1262	899.66	0.4931	-7E-05	6	0.3928	2.3052	1.4115	247.4317
2.3	102.9	0.49	-0.17	0.75	102.898	0.4762	6	1.73283	116.3535	0.13206	0	0.1321	778.19	0.4768	-1E-04	6	0.4021	2.309	1.4352	224.2528
2.4	91.4	0.42	-0.11	0.75	91.3987	0.4595	6	1.76928	114.9365	0.1378	0	0.1378	662.25	0.4602	-9E-05	6	0.4135	2.323	1.4644	200.3546
2.5	76.4	0.4	-0.15	0.77	76.3982	0.5236	6	1.86506	114.1423	0.14351	0	0.1435	531.35	0.5246	-1E-04	6	0.4447	2.4312	1.5451	175.2083
2.6	66.3	0.48	-0.14	0.77	66.2983	0.724	6	1.9912	115.1305	0.14927	0	0.1493	443.16	0.7256	-2E-04	6	0.4907	2.6143	1.6574	163.4365
2.7	59.9	0.59	-0.11	0.77	59.8987	0.985	5	2.10259	116.3926	0.15509	0	0.1551	385.23	0.9876	-1E-04	6	0.5301	2.7673	1.7618	156.2474
2.8	52.1	0.65	-0.11	0.79	52.0987	1.2476	5	2.21186	116.761	0.16093	0	0.1609	322.74	1.2515	-2E-04	6	0.5679	2.9137	1.8611	143.0218
2.9	48.6	0.66	-0.11	0.8	48.5987	1.3581	5	2.25808	116.7031	0.16676	0	0.1668	290.43	1.3627	-2E-04	6	0.5848	2.9464	1.9053	134.8624
3	50.5	0.59	-0.11	0.8	50.4987	1.1684	5	2.206	115.9763	0.17256	0	0.1726	291.65	1.1724	-2E-04	6	0.5689	2.806	1.8627	133.4615
3.1	54.2	0.47	-0.11	0.82	54.1987	0.8672	5	2.1073	114.4849	0.17828	0	0.1783	303	0.87	-2E-04	6	0.5369	2.6014	1.7772	132.8131
3.2	56	0.36	-0.18	0.82	55.9978	0.6429	6	2.02653	112.6137	0.18391	0	0.1839	303.48	0.645	-2E-04	6	0.5102	2.4419	1.7058	128.808
3.3	54.8	0.27	-0.11	0.84	54.7987	0.4927	6	1.97877	110.4559	0.18944	0	0.1894	288.27	0.4944	-2E-04	6	0.4941	2.3396	1.6621	120.7467
3.4	52.3	0.22	-0.11	0.83	52.2987	0.4207	6	1.96635	108.8435	0.19488	0	0.1949	267.36	0.4222	-2E-04	6	0.4901	2.2915	1.6506	112.8395
3.5	48.7	0.21	-0.11	0.84	48.6987	0.4312	6	1.99895	108.3292	0.2003	0	0.2003	242.13	0.433	-2E-04	6	0.5017	2.305	1.6807	105.6486
3.6	45	0.2	-0.18	0.84	44.9978	0.4445	6	2.0356	107.7794	0.20568	0	0.2057	217.77	0.4465	-3E-04	6	0.5146	2.3231	1.7143	98.33977
3.7	40.8	0.19	-0.11	0.84	40.7987	0.4657	5	2.08273	107.1652	0.21104	0	0.211	192.32	0.4681	-2E-04	6	0.5309	2.3534	1.7568	90.27394
3.8	37.6	0.18	-0.11	0.86	37.5987	0.4787	5	2.11993	106.5704	0.21637	0	0.2164	172.77	0.4815	-2E-04	6	0.544	2.3714	1.7909	83.78085
3.9	34.5	0.17	-0.11	0.88	34.4987	0.4928	5	2.1591	105.9423	0.22167	0	0.2217	154.63	0.496	-2E-04	6	0.5578	2.3914	1.8268	77.46962
4	31.9	0.15	-0.11	0.88	31.8987	0.4702	5	2.18159	104.8353	0.22691	0	0.2269	139.58	0.4736	-3E-04	6	0.5658	2.3895	1.8471	71.52336
4.1	29.3	0.13	-0.05	0.88	29.2994	0.4437	5	2.20529	103.581	0.23209	0	0.2321	125.24	0.4472	-1E-04	6	0.574	2.3888	1.8682	65.6236
4.2	27.1	0.11	-0.11	0.88	27.0987	0.4059	5	2.22181	102.1682	0.2372	0	0.2372	113.25	0.4095	-3E-04	6	0.5798	2.3797	1.8828	60.41228
4.3	24.5	0.1	-0.11	0.88	24.4987	0.4082	5	2.2634	101.2248	0.24226	0	0.2423	100.13	0.4123	-3E-04	6	0.5942	2.4014	1.9204	55.0505
4.4	22.2	0.09	-0.11	0.88	22.1987	0.4054	5	2.30222	100.2134	0.24727	0	0.2473	88.775	0.41	-4E-04	6	0.6078	2.4196	1.9555	50.1962
4.5	20.3	0.08	-0.19	0.88	20.2977	0.3941	5	2.33423	99.13323	0.25223	0	0.2522	79.474	0.3991	-7E-04	6	0.6191	2.4297	1.9848	46.02915
4.6	19.3	0.08	-0.17	0.88	19.2979	0.4146	5	2.36248	99.01004	0.25718	0	0.2572	74.038	0.4202	-6E-04	6	0.63	2.4379	2.013	43.87086
4.7	19.2	0.08	-0.11	0.88	19.1987	0.4167	5	2.36537	98.99746	0.26213	0	0.2621	72.242	0.4225	-4E-04	6	0.6327	2.4177	2.0195	43.26866
4.8	20.5	0.09	-0.11	0.88	20.4987	0.4391	5	2.34703	100.0191	0.26713	0	0.2671	75.737	0.4449	-4E-04	6	0.6291	2.3773	2.0097	45.45423
4.9	23.1	0.11	-0.07	0.88	23.0991	0.4762	5	2.31234	101.7787	0.27222	0	0.2722	83.856	0.4819	-2E-04	6	0.6207	2.3225	1.9871	50.10473
5	26.1	0.11	-0.1	0.88	26.0988	0.4215	5	2.24307	102.0765	0.27732	0	0.2773	93.111	0.426	-3E-04	6	0.5995	2.2317	1.9308	54.46021
5.1	28.3	0.1	-0.13	0.9	28.2984	0.3534	5	2.18245	101.5765	0.2824	0	0.2824	99.207	0.3569	-3E-04	6	0.5805	2.1528	1.8802	57.0006
5.2	34	0.12	-0.41	0.9	33.995	0.353	5	2.10791	103.3578	0.28757	0	0.2876	117.22	0.356	-9E-04	6	0.5586	2.0703	1.8221	65.95306
5.3	36.4	0.14	-0.34	0.92	36.3958	0.3847	5	2.09439	104.6522	0.2928	0	0.2928	123.3	0.3878	-7E-04	6	0.5566	2.0443	1.8164	69.75051
5.4	36.1	0.15	-0.4	0.9	36.0951	0.4156	5	2.11083	105.1368	0.29806	0	0.2981	120.1	0.419	-8E-04	6	0.5639	2.043	1.8351	69.11623
5.5	35.2	0.17	-0.34	0.9	35.1958	0.483	5	2.14756	105.9911	0.30336	0	0.3034	115.02	0.4872	-7E-04	6	0.5784	2.0597	1.8727	67.92105
5.6	35	0.18	-0.34	0.91	34.9958	0.5144	5	2.16142	106.3954	0.30868	0	0.3087	112.37	0.5189	-7E-04	6	0.5848	2.0554	1.8891	67.38043
5.7	34.6	0.18	-0.34	0.91	34.5958	0.5203	5	2.16808	106.3673	0.31399	0	0.314	109.18	0.5251	-7E-04	6	0.5885	2.0441	1.8982	66.22562
5.8	33.7	0.18	-0.34	0.92	33.6958	0.5342	5	2.18335	106.3031	0.31931	0	0.3193	104.53	0.5393	-7E-04	6	0.595	2.0399	1.9148	64.34603
5.9	32.9	0.16	-0.34	0.92	32.8958	0.4864	5	2.17547	105.3826	0.32458	0	0.3246	100.35	0.4912	-8E-04	6	0.593	2.0154	1.9089	62.03818
6	32.1	0.14	-0.34	0.92	32.0958	0.4362	5	2.16599	104.3455	0.3298	0	0.3298	96.32	0.4407	-8E-04	6	0.5904	1.9903	1.9014	59.75226
6.1	30.6	0.12	-0.35	0.92	30.5957	0.3922	5	2.16734	103.1009	0.33495	0	0.335	90.344	0.3966	-8E-04	6	0.5913	1.9743	1.9032	56.46175
6.2	29.4	0.12	-0.39	0.91	29.3952	0.4082	5	2.19	103.0032	0.3401	0	0.3401	85.431	0.413	-1E-03	6	0.6004	1.9766	1.9262	54.27711
6.3	28.1	0.12	-0.37	0.92	28.0955	0.4271	5	2.21565	102.8929	0.34525	0	0.3453	80.378	0.4324	-1E-03	6	0.6104	1.981	1.952	51.9551
6.4	26.6	0.12	-0.41	0.92	26.595	0.4512	5	2.24685	102.7591	0.35038	0	0.3504	74.903	0.4572	-0.001	6	0.6223	1.9893	1.9828	49.34225
6.5	26.3	0.13	-0.41	0.91	26.295	0.4944	5	2.2671	103.3171	0.35555	0	0.3556	72.956	0.5012	-0.001	6	0.6311	1.9902	2.0052	48.78854
6.6	27.3	0.13	-0.41	0.92	27.295	0.4763	5	2.24574	103.4081	0.36072	0	0.3607	74.668	0.4827	-0.001	6	0.6252	1.9597	1.9891	49.88384
6.7	28.1	0.13	-0.41	0.92	28.095	0.4627	5	2.22924	103.4786	0.36589	0	0.3659	75.785	0.4688	-0.001	6	0.6209	1.9336	1.9774	50.67131
6.8	28.5	0.14	-0.41	0.92	28.495	0.4913	5	2.2341	104.0553	0.3711	0	0.3711	75.786	0.4978	-0.001	6	0.6244	1.9236	1.9858	51.12758

6.9	28.3	0.14	-0.41	0.92	28.295	0.4948	5	2.23814	104.0381	0.3763	0	0.3763	74.193	0.5015	-0.001	6	0.6256	1.9094	1.9929	50.37991
7	26.9	0.14	-0.41	0.92	26.895	0.5205	5	2.26729	103.9144	0.38149	0	0.3815	69.499	0.528	-0.001	6	0.637	1.9153	2.022	47.99242
7.1	25.7	0.13	-0.35	0.92	25.6957	0.5059	5	2.2803	103.2609	0.38666	0	0.3867	65.456	0.5137	-0.001	6	0.6425	1.9094	2.0356	45.67201
7.2	24.7	0.12	-0.41	0.94	24.695	0.4859	5	2.28909	102.5783	0.39179	0	0.3918	62.032	0.4938	-0.001	6	0.6465	1.9008	2.0453	43.65957
7.3	24.1	0.11	-0.41	0.92	24.095	0.4565	5	2.28835	101.8816	0.39688	0	0.3969	59.711	0.4642	-0.001	6	0.6471	1.8863	2.0463	42.24571
7.4	23.5	0.1	-0.35	0.94	23.4957	0.4256	5	2.28697	101.1228	0.40194	0	0.4019	57.456	0.433	-0.001	6	0.6475	1.8716	2.0467	40.8483
7.5	21.9	0.09	-0.41	0.94	21.895	0.4111	5	2.30996	100.1798	0.40695	0	0.407	52.803	0.4188	-0.001	6	0.6564	1.8724	2.069	38.02356
7.6	19.7	0.08	-0.34	0.94	19.6958	0.4062	5	2.35105	99.05982	0.4119	0	0.4119	46.817	0.4149	-0.001	5	0.6715	1.8842	2.1079	34.33969
7.7	18.5	0.07	-0.34	0.94	18.4958	0.3785	5	2.36609	97.92945	0.41679	0	0.4168	43.376	0.3872	-0.001	5	0.6775	1.8798	2.123	32.1191
7.8	17.5	0.07	-0.39	0.93	17.4952	0.4001	5	2.39702	97.7938	0.42168	0	0.4217	40.489	0.41	-0.002	5	0.6897	1.8861	2.1541	30.43335
7.9	17.1	0.07	-0.41	0.93	17.095	0.4095	5	2.40992	97.73736	0.42657	0	0.4266	39.075	0.42	-0.002	5	0.6956	1.8812	2.1688	29.63414
8	17.2	0.07	-0.38	0.93	17.1954	0.4071	5	2.40666	97.75164	0.43146	0	0.4315	38.854	0.4176	-0.002	5	0.6958	1.8667	2.1687	29.57415
8.1	17.9	0.07	-0.37	0.91	17.8955	0.3912	5	2.38443	97.84897	0.43635	0	0.4364	40.012	0.4009	-0.002	5	0.6893	1.8415	2.151	30.38506
8.2	18.4	0.08	-0.39	0.9	18.3952	0.4349	5	2.38934	98.8932	0.4413	0	0.4413	40.685	0.4456	-0.002	5	0.6929	1.833	2.1597	31.10241
8.3	18.2	0.09	-0.34	0.9	18.1958	0.4946	5	2.41436	99.72844	0.44628	0	0.4463	39.772	0.5071	-0.001	5	0.7036	1.8356	2.1869	30.79185
8.4	17.3	0.09	-0.35	0.9	17.2957	0.5204	5	2.44313	99.6047	0.45126	0	0.4513	37.327	0.5343	-0.002	5	0.7151	1.8393	2.2163	29.28038
8.5	15.8	0.09	-0.41	0.9	15.795	0.5698	5	2.49473	99.38332	0.45623	0	0.4562	33.621	0.5868	-0.002	5	0.7348	1.8554	2.2671	26.89661
8.6	17.4	0.08	-0.41	0.9	17.395	0.4599	5	2.42076	98.75684	0.46117	0	0.4612	36.719	0.4724	-0.002	5	0.7093	1.8023	2.1999	28.84404
8.7	17	0.07	-0.41	0.92	16.995	0.4119	5	2.41319	97.72305	0.46606	0	0.4661	35.466	0.4235	-0.002	5	0.7074	1.7861	2.1944	27.90145
8.8	16.4	0.07	-0.41	0.9	16.395	0.427	5	2.43326	97.63538	0.47094	0	0.4709	33.814	0.4396	-0.002	5	0.7159	1.7852	2.2158	26.86583
8.9	16.2	0.07	-0.41	0.92	16.195	0.4322	5	2.44012	97.60545	0.47582	0	0.4758	33.036	0.4453	-0.002	5	0.7196	1.7773	2.2249	26.40397
9	16.7	0.07	-0.41	0.92	16.695	0.4193	5	2.42313	97.67961	0.4807	0	0.4807	33.73	0.4317	-0.002	5	0.7148	1.7577	2.2117	26.93433
9.1	17.7	0.07	-0.41	0.91	17.695	0.3956	5	2.3907	97.82149	0.48559	0	0.4856	35.44	0.4068	-0.002	5	0.7045	1.731	2.184	28.15407
9.2	18.4	0.07	-0.44	0.9	18.3946	0.3806	5	2.36914	97.91607	0.49049	0	0.4905	36.503	0.391	-0.002	5	0.6981	1.7103	2.1665	28.9404
9.3	18.2	0.06	-0.49	0.9	18.194	0.3298	5	2.35338	96.7614	0.49533	0	0.4953	35.731	0.339	-0.002	5	0.6932	1.6924	2.153	28.30745
9.4	17.2	0.06	-0.47	0.9	17.1943	0.349	5	2.38444	96.62356	0.50016	0	0.5002	33.378	0.3594	-0.002	5	0.7055	1.6966	2.1847	26.768
9.5	16.1	0.07	-0.42	0.9	16.0949	0.4349	5	2.44358	97.59032	0.50504	0	0.505	30.869	0.449	-0.002	5	0.7285	1.7139	2.2442	25.25203
9.6	15.6	0.08	-0.49	0.9	15.594	0.513	5	2.48241	98.49027	0.50996	0	0.51	29.579	0.5304	-0.002	5	0.7441	1.7214	2.2846	24.53987
9.7	16.5	0.09	-0.42	0.9	16.4949	0.5456	5	2.47006	99.48906	0.51494	0	0.5149	31.033	0.5632	-0.002	5	0.7413	1.7055	2.2764	25.75746
9.8	18.9	0.1	-0.41	0.89	18.895	0.5292	5	2.41056	100.5913	0.51997	0	0.52	35.339	0.5442	-0.002	5	0.7214	1.6695	2.2236	28.99267
9.9	22.3	0.1	-0.41	0.88	22.295	0.4485	5	2.31662	100.9949	0.52502	0	0.525	41.465	0.4594	-0.001	5	0.6888	1.6205	2.1375	33.34052
10	25.3	0.12	-0.41	0.88	25.295	0.4744	5	2.2754	102.6368	0.53015	0	0.5302	46.713	0.4846	-0.001	5	0.6758	1.5953	2.1027	37.33682
10.1	27.5	0.14	-0.41	0.88	27.495	0.5092	5	2.25461	103.9682	0.53535	0	0.5354	50.359	0.5193	-0.001	5	0.6701	1.5786	2.0869	40.22059
10.2	28.7	0.15	-0.41	0.88	28.695	0.5227	5	2.24246	104.5772	0.54057	0	0.5406	52.082	0.5328	-0.001	5	0.6671	1.5652	2.0785	41.64736
10.3	30.5	0.16	-0.41	0.89	30.495	0.5247	5	2.21917	105.1978	0.54583	0	0.5458	54.869	0.5342	-1E-03	6	0.6601	1.548	2.0594	43.81373
10.4	33.3	0.17	-0.45	0.9	33.2945	0.5106	5	2.17962	105.8556	0.55113	0	0.5511	59.412	0.5192	-1E-03	6	0.6472	1.5253	2.025	47.19986
10.5	35.1	0.18	-0.52	0.89	35.0936	0.5129	5	2.15981	106.4022	0.55645	0	0.5565	62.067	0.5212	-0.001	6	0.6414	1.5102	2.0091	49.29292
10.6	35.8	0.19	-0.54	0.89	35.7934	0.5308	5	2.15855	106.846	0.56179	0	0.5618	62.713	0.5393	-0.001	6	0.6423	1.5018	2.0106	50.0033
10.7	35.7	0.19	-0.49	0.9	35.694	0.5323	5	2.16017	106.8392	0.56713	0	0.5671	61.938	0.5409	-0.001	6	0.6439	1.4942	2.0143	49.60414
10.8	35	0.18	-0.53	0.9	34.9935	0.5144	5	2.16146	106.3952	0.57245	0	0.5725	60.129	0.5229	-0.001	6	0.6453	1.4865	2.0171	48.35652
10.9	34	0.17	-0.63	0.89	33.9923	0.5001	5	2.16764	105.9062	0.57775	0	0.5778	57.836	0.5088	-0.001	6	0.6484	1.4805	2.0246	46.75247
11	32.6	0.17	-0.56	0.9	32.5932	0.5216	5	2.19192	105.8037	0.58304	0	0.583	54.902	0.5311	-0.001	6	0.6583	1.4804	2.0498	44.78569
11.1	30.7	0.17	-0.56	0.88	30.6932	0.5539	5	2.22669	105.6572	0.58832	0	0.5883	51.171	0.5647	-0.001	5	0.6719	1.4835	2.0849	42.20797
11.2	28.6	0.17	-0.56	0.88	28.5932	0.5946	5	2.26781	105.4843	0.59359	0	0.5936	47.17	0.6072	-0.001	5	0.688	1.4884	2.1263	39.38453
11.3	25.5	0.14	-0.43	0.87	25.4947	0.5491	5	2.29806	103.784	0.59878	0	0.5988	41.578	0.5623	-0.001	5	0.6995	1.4892	2.156	35.03998
11.4	21.8	0.12	-0.49	0.88	21.794	0.5506	5	2.36059	102.2735	0.6039	0	0.6039	35.089	0.5663	-0.002	5	0.7231	1.5001	2.2172	30.0421
11.5	19.7	0.1	-0.49	0.88	19.694	0.5078	5	2.38699	100.6923	0.60893	0	0.6089	31.342	0.524	-0.002	5	0.7335	1.4998	2.2439	27.05093
11.6	18.6	0.11	-0.69	0.88	18.5916	0.5917	5	2.43635	101.2492	0.61399	0	0.614	29.28	0.6119	-0.003	5	0.7531	1.5066	2.2944	25.59741
11.7	18	0.14	-0.59	0.87	17.9928	0.7781	5	2.49989	102.934	0.61914	0	0.6191	28.061	0.8058	-0.002	5	0.7782	1.5174	2.3597	24.91566
11.8	17.1	0.2	-0.56	0.86	17.0932	1.1701	4	2.60285	105.4186	0.62441	0	0.6244	26.375	1.2144	-0.002	5	0.8182	1.5396	2.464	23.96348
11.9	15.8	0.26	-0.51	0.88	15.7938	1.6462	4	2.70838	107.1455	0.62977	0	0.6298	24.079	1.7146	-0.002	4	0.8592	1.5618	2.5709	22.38231
12	14.6	0.3	-0.49	0.88	14.594	2.0556	4	2.78935	107.9999	0.63517	0	0.6352	21.977	2.1492	-0.003	4	0.8915	1.5762	2.6535	20.79315
12.1	13.5	0.29	-0.45	0.88	13.4945	2.149	4	2.82838	107.5608	0.64055	0	0.6406	20.067	2.2561	-0.003	4	0.9074	1.5769	2.6947	19.15587
12.2	13.9	0.26	-0.53	0.88	13.8935	1.8714	4	2.78516	106.8329	0.64589	0	0.6459	20.511	1.9626	-0.003	4	0.8924	1.5535	2.6544	19.44942
12.3	16.6	0.21	-0.6	0.89	16.5927	1.2656	4	2.63104	105.7032	0.65117	0	0.6512	24.481	1.3173	-0.003	5	0.8349	1.4998	2.5044	22.59557
12.4	20.3	0.16	-0.53	0.9	20.2935	0.7884	5	2.45579	104.2045	0.65638	0	0.6564	29.917	0.8148	-0.002	5	0.7702	1.4445	2.3341	26.80834
12.5	23.6	0.13	-0.49	0.9	23.594	0.551	5	2.32928	103.0527	0.66154	0	0.6615	34.665	0.5669	-0.002	5	0.724	1.405	2.2121	30.45056
12.6	26	0.21	-0.49	0.89	25.994	0.8079	5	2.36556	106.798	0.66688	0	0.6669	37.979	0.8292	-0.001	5	0.7394	1.4068	2.2518	33.6735
12.7	27.6	0.34	-0.51	0.9	27.5938	1.2322	5	2.43631	110.4693	0.6724	0	0.6724	40.038	1.2629	-0.001	5	0.7676	1.4163	2.3252	36.03421
12.8	27.9	0.44	-0.55	0.9	27.8933	1.5774	5	2.49181	112.3822	0.67802	0	0.678	40.139	1.6167	-0.001	5	0.7899	1.4212	2.3828	36.55534
12.9	26.7	0.49	-0.48	0.92	26.6941	1.8356	4	2.54533	113.0625	0.68367	0	0.6837	38.045	1.8839	-0.001	5	0.8111	1.4251	2.4378	35.03188
13	29	0.52	-0.42	0.9	28.9949	1.7934	4	2.5103	113.699	0.68936	0	0.6894	41.061	1.8371	-0.001	5	0.7993	1.4084	2.4062	37.67699
13.1	43.8	0.5	-0.93	0.9	43.7886	1.1419	5	2.25089	114.4175	0.69508	0	0.6951	61.998	1.1603	-0.002	5	0.7042	1.3444	2.156	54.7525
13.2	55.7	0.46	-0.52	0.92	55.6936	0.826	5	2.08583	114.3939	0.7008	0	0.7008	78.472	0.8365	-7E-04	6	0.6442	1.304	1.9978	67.77228
13.3	63.5	0.38	-0.49	0.9	63.494	0.5985	6	1.96374	113.3157	0.70646	0	0.7065	88.876	0.6052	-6E-04	6	0.5998	1.2742	1.8806	75.60873
13.4	69.1	0.38	-0.49	0.9	69.094	0.55	6	1.91353	113.5219	0.71214	0	0.7121	96.023	0.5557	-5E-04	6	0.5823	1.2593	1.8338	81.38388
13.5	74.9	0.41	-0.49	0.9	74.894	0.5474	6	1.88231	114.2744	0.71785	0	0.7179	103.33	0.5527	-5E-04	6	0.5719	1.2484	1.8058	87.51651
13.6	83.3	0.43	-0.43	0.89	83.2947	0.5162	6	1.82959	114.8822	0.7236	0	0.7236	114.11	0.5208	-4E-04	6	0.5535	1.2341	1.7569	96.30343
13.7	92.9	0.47	-0.46	0.88	92.8944	0.506	6	1.78446	115.7991	0.72939	0	0.7294	126.36	0.51	-4E-04	6	0.538	1.2216	1.7154	106.404
13.8	103.7	0.52	-0.49	0.87	103.694	0.5015	6	1.74173	116.8071	0.73523	0	0.7352	140.04	0.5051	-3E-04	6	0.5234	1.2099	1.6763	117.7284
13.9	115.1	0.57	-0.46	0.86	115.094	0.4953	6	1.70051	117.7332	0.74111	0	0.7411	154.3	0.4985	-3E-04	6	0.5093	1.1988	1.6386	129.5605

14	125.3	0.61	-0.41	0.87	125.295	0.4869	6	1.66549	118.4366	0.74704	0	0.747	166.72	0.4898	-2E-04	6	0.4974	1.189	1.6066	139.9586
14.1	133.3	0.64	-0.41	0.88	133.295	0.4801	6	1.63969	118.9388	0.75298	0	0.753	176.02	0.4829	-2E-04	6	0.4888	1.1809	1.5833	147.923
14.2	139.4	0.7	-0.41	0.88	139.395	0.5022	6	1.63439	119.7037	0.75897	0	0.759	182.66	0.5049	-2E-04	6	0.4878	1.176	1.58	154.078
14.3	143.1	0.68	-0.41	0.86	143.095	0.4752	6	1.61154	119.5555	0.76495	0	0.765	186.07	0.4778	-2E-04	6	0.4801	1.1685	1.559	157.1852
14.4	144.6	0.65	-0.35	0.86	144.596	0.4495	6	1.59445	119.2508	0.77091	0	0.7709	186.57	0.4519	-2E-04	6	0.4745	1.1621	1.5435	157.9624
14.5	144.8	0.69	-0.41	0.84	144.795	0.4765	6	1.60796	119.6911	0.77689	0	0.7769	185.38	0.4791	-2E-04	6	0.4803	1.16	1.5582	157.8823
14.6	142.3	0.76	-0.41	0.85	142.295	0.5341	6	1.64231	120.3556	0.78291	0	0.7829	180.75	0.5371	-2E-04	6	0.494	1.1605	1.5933	155.1992
14.7	139.5	0.82	-0.4	0.86	139.495	0.5878	6	1.67363	120.8631	0.78895	0	0.789	175.81	0.5912	-2E-04	6	0.5066	1.1603	1.6255	152.1037
14.8	137	0.9	-0.34	0.86	136.996	0.657	6	1.70885	121.5002	0.79503	0	0.795	171.32	0.6608	-2E-04	6	0.5206	1.1605	1.6615	149.3751
14.9	130.2	0.92	-0.41	0.84	130.195	0.7066	6	1.74568	121.5368	0.80111	0	0.8011	161.52	0.711	-2E-04	6	0.5351	1.1605	1.6988	141.9196
15	122.6	0.78	-0.35	0.84	122.596	0.6362	6	1.73919	120.1822	0.80712	0	0.8071	150.89	0.6405	-2E-04	6	0.5331	1.1553	1.6929	132.9747
15.1	115	0.88	-0.34	0.84	114.996	0.7653	6	1.8095	120.9088	0.81316	0	0.8132	140.42	0.7707	-2E-04	6	0.5603	1.159	1.7635	125.067
15.2	108.9	0.91	-0.34	0.86	108.896	0.8357	6	1.85165	121.0211	0.81921	0	0.8192	131.93	0.842	-2E-04	6	0.5769	1.1591	1.8062	118.3891
15.3	101.5	0.9	-0.24	0.85	101.497	0.8867	6	1.89159	120.7687	0.82525	0	0.8253	121.99	0.894	-2E-04	6	0.5926	1.1587	1.8467	110.2408
15.4	98.3	0.84	-0.19	0.87	98.2977	0.8546	6	1.89274	120.1857	0.83126	0	0.8313	117.25	0.8618	-1E-04	6	0.5937	1.154	1.8489	106.3022
15.5	97.8	0.81	-0.15	0.86	97.7982	0.8282	6	1.88627	119.9072	0.83725	0	0.8373	115.81	0.8354	-1E-04	6	0.5921	1.1487	1.8439	105.26
15.6	98.1	0.8	-0.11	0.86	98.0987	0.8155	6	1.88115	119.8238	0.84325	0	0.8433	115.33	0.8226	-8E-05	6	0.591	1.1436	1.8402	105.1085
15.7	100.6	0.8	-0.11	0.88	100.599	0.7952	6	1.86585	119.8852	0.84924	0	0.8492	117.46	0.802	-8E-05	6	0.5861	1.1375	1.8266	107.2377
15.8	105.3	0.81	-0.11	0.88	105.299	0.7692	6	1.84132	120.0874	0.85524	0	0.8552	122.12	0.7755	-8E-05	6	0.5777	1.1308	1.8039	111.6226
15.9	109.4	0.83	-0.11	0.88	109.399	0.7587	6	1.82447	120.3591	0.86126	0	0.8613	126.02	0.7647	-7E-05	6	0.5722	1.125	1.7887	115.3987
16	113.4	0.85	-0.11	0.86	113.399	0.7496	6	1.80886	120.6209	0.86729	0	0.8673	129.75	0.7553	-7E-05	6	0.5672	1.1194	1.7748	119.0493
16.1	118.3	0.86	-0.11	0.86	118.299	0.727	6	1.78619	120.8096	0.87333	0	0.8733	134.46	0.7324	-7E-05	6	0.5595	1.1134	1.7538	123.5559
16.2	127.1	0.85	-0.19	0.88	127.098	0.6688	6	1.73948	120.899	0.87938	0	0.8794	143.53	0.6734	-1E-04	6	0.5427	1.1056	1.7091	131.8865
16.3	133.7	0.81	-0.12	0.88	133.699	0.6058	6	1.69625	120.6698	0.88541	0	0.8854	150	0.6099	-7E-05	6	0.5272	1.0985	1.6676	137.8814
16.4	143.3	0.78	-0.17	0.88	143.298	0.5443	6	1.64459	120.5628	0.89144	0	0.8914	159.75	0.5477	-9E-05	6	0.5085	1.0911	1.6177	146.8417
16.5	159.2	0.72	-0.19	0.9	159.198	0.4523	6	1.56113	120.2338	0.89745	0	0.8975	176.39	0.4548	-9E-05	6	0.4778	1.0819	1.5364	161.8528
16.6	172.6	0.7	-0.14	0.89	172.598	0.4056	6	1.50565	120.2248	0.90346	0	0.9035	190.04	0.4077	-6E-05	6	0.4576	1.075	1.4827	174.4323
16.7	173	0.71	-0.15	0.87	172.998	0.4104	6	1.50765	120.3342	0.90948	0	0.9095	189.22	0.4126	-6E-05	6	0.4591	1.072	1.4858	174.3408
16.8	163.3	0.7	-0.15	0.87	163.298	0.4287	6	1.53898	120.0897	0.91548	0	0.9155	177.37	0.4311	-7E-05	6	0.4715	1.0707	1.5178	164.3081
16.9	146.7	0.64	-0.11	0.88	146.699	0.4363	6	1.5821	119.1725	0.92144	0	0.9214	158.21	0.439	-5E-05	6	0.4886	1.0699	1.5613	147.4028
17	127.7	0.57	-0.11	0.88	127.699	0.4464	6	1.63825	117.9867	0.92734	0	0.9273	136.7	0.4496	-6E-05	6	0.5104	1.0697	1.6179	128.1541
17.1	108.1	0.52	-0.11	0.87	108.099	0.481	6	1.71686	116.9085	0.93319	0	0.9332	114.84	0.4852	-7E-05	6	0.5408	1.0703	1.697	108.4006
17.2	93.2	0.5	-0.11	0.88	93.1987	0.5365	6	1.79657	116.2598	0.939	0	0.939	98.253	0.542	-9E-05	6	0.5717	1.0707	1.7775	93.35426
17.3	77.4	0.49	-0.11	0.86	77.3987	0.6331	6	1.90315	115.6589	0.94478	0	0.9448	80.922	0.6409	-1E-04	6	0.613	1.0719	1.8852	77.45094
17.4	63.2	0.48	-0.11	0.9	63.1987	0.7595	6	2.01995	115.0137	0.95053	0	0.9505	65.487	0.7711	-1E-04	6	0.6583	1.0731	2.0034	63.1318
17.5	53.8	0.55	-0.11	0.88	53.7987	1.0223	5	2.15006	115.617	0.95632	0	0.9563	55.256	1.0408	-2E-04	5	0.7089	1.0743	2.1355	53.65262
17.6	49.2	0.62	-0.11	0.88	49.1987	1.2602	5	2.23447	116.2756	0.96213	0	0.9621	50.135	1.2853	-2E-04	5	0.742	1.0731	2.2218	48.92027
17.7	46.5	0.69	-0.11	0.9	46.4987	1.4839	5	2.29658	116.9206	0.96798	0	0.968	47.037	1.5155	-2E-04	5	0.7667	1.0706	2.2859	46.07007
17.8	44.1	0.72	-0.11	0.9	44.0987	1.6327	5	2.34011	117.1028	0.97383	0	0.9738	44.284	1.6696	-2E-04	5	0.7843	1.0673	2.3314	43.49802
17.9	41.7	0.71	-0.17	0.9	41.6979	1.7027	5	2.3705	116.8639	0.97967	0	0.9797	41.563	1.7437	-3E-04	5	0.797	1.0633	2.364	40.91826
18	40.8	0.68	-0.42	0.89	40.7949	1.6669	5	2.37239	116.4946	0.9855	0	0.9855	40.395	1.7081	-8E-04	5	0.7987	1.0584	2.3678	39.82121
18.1	41.4	0.62	-1.01	0.89	41.3876	1.498	5	2.33946	115.8539	0.99129	0	0.9913	40.751	1.5348	-0.002	5	0.787	1.0527	2.3364	40.18899
18.2	41.9	0.55	-0.73	0.91	41.8911	1.3129	5	2.30148	115.0068	0.99704	0	0.997	41.015	1.3449	-0.001	5	0.7734	1.0471	2.2999	40.46653
18.3	43.1	0.5	-0.16	0.91	43.098	1.1602	5	2.2605	114.3787	1.00276	0	1.0028	41.979	1.1878	-3E-04	5	0.7585	1.0416	2.2602	41.43831
18.4	45.3	0.47	-0.11	0.91	45.2987	1.0376	5	2.21531	114.0474	1.00846	0	1.0085	43.919	1.0612	-2E-04	5	0.742	1.0363	2.2161	43.37733
18.5	46.6	0.46	-0.09	0.92	46.5989	0.9872	5	2.19307	113.9591	1.01416	0	1.0142	44.948	1.0091	-1E-04	5	0.7343	1.0316	2.1951	44.44438
18.6	47.2	0.47	-0.06	0.9	47.1993	0.9958	5	2.19054	114.1477	1.01987	0	1.0199	45.28	1.0178	-9E-05	5	0.7341	1.0274	2.194	44.83876
18.7	49.6	0.49	-0.11	0.9	49.5987	0.9879	5	2.17076	114.5735	1.0256	0	1.0256	47.361	1.0088	-2E-04	5	0.7272	1.023	2.1752	46.95931
18.8	55.3	0.52	-0.11	0.88	55.2987	0.9404	5	2.11962	115.2737	1.03136	0	1.0314	52.617	0.9582	-2E-04	5	0.7082	1.0183	2.1245	52.2255
18.9	62.7	0.56	-0.11	0.88	62.6987	0.8932	6	2.06199	116.1222	1.03717	0	1.0372	59.452	0.9082	-1E-04	5	0.6866	1.0138	2.0672	59.08057
19	75.4	0.6	-0.11	0.9	75.3987	0.7958	6	1.96759	117.0769	1.04302	0	1.043	71.289	0.8069	-1E-04	6	0.6509	1.0094	1.9727	70.93221
19.1	86.7	0.64	-0.11	0.9	86.6987	0.7382	6	1.89917	117.8898	1.04891	0	1.0489	81.656	0.7472	-9E-05	6	0.6252	1.0055	1.9046	81.38895
19.2	99.4	0.68	-0.11	0.89	99.3987	0.6841	6	1.8316	118.6668	1.05485	0	1.0549	93.23	0.6915	-8E-05	6	0.5999	1.0019	1.8374	93.11526
19.3	109.6	0.74	-0.11	0.91	109.599	0.6752	6	1.79374	119.5237	1.06082	0	1.0608	102.31	0.6818	-7E-05	6	0.586	0.9985	1.8002	102.4233
19.4	118	0.79	-0.11	0.9	117.999	0.6695	6	1.76565	120.1822	1.06683	0	1.0668	109.61	0.6756	-7E-05	6	0.5759	0.9953	1.7728	109.9889
19.5	124.8	0.81	-0.11	0.87	124.799	0.6491	6	1.73807	120.5018	1.07286	0	1.0729	115.32	0.6547	-6E-05	6	0.5659	0.9922	1.7461	116.0186
19.6	130	0.83	-0.11	0.87	129.999	0.6385	6	1.71958	120.7799	1.0789	0	1.0789	119.49	0.6438	-6E-05	6	0.5595	0.9892	1.7284	120.5206
19.7	134.4	0.85	-0.15	0.88	134.398	0.6325	6	1.70553	121.0353	1.08495	0	1.085	122.88	0.6376	-8E-05	6	0.5548	0.9862	1.7153	124.2531
19.8	137	0.88	-0.19	0.87	136.998	0.6424	6	1.70293	121.3358	1.09102	0	1.091	124.57	0.6475	-1E-04	6	0.5545	0.9832	1.7137	126.2803
19.9	138	0.89	-0.19	0.87	137.998	0.6449	6	1.70147	121.4362	1.09709	0	1.0971	124.79	0.6501	-1E-04	6	0.5546	0.9801	1.7133	126.8124
20	138.7	0.94	-0.19	0.87	138.698	0.6777	6	1.71286	121.8485	1.10318	0	1.1032	124.73	0.6832	-1E-04	6	0.5597	0.9769	1.7257	127.0376
20.1	141.1	0.92	-0.19	0.86	141.098	0.652	6	1.69669	121.733	1.10927	0	1.1093	126.2	0.6572	-1E-04	6	0.5541	0.9742	1.7105	128.8839
20.2	144	0.89	-0.19	0.86	143.998	0.6181	6	1.67558	121.54	1.11534	0	1.1153	128.11	0.6229	-1E-04	6	0.5467	0.9716	1.6903	131.2019
20.3	145	0.88	-0.19	0.86	144.998	0.6069	6	1.66841	121.4742	1.12142	0	1.1214	128.3	0.6116	-1E-04	6	0.5447	0.9688	1.6841	131.7386
20.4	142.3	0.9	-0.19	0.84	142.298	0.6325	6	1.68574	121.5928	1.1275	0	1.1275	125.21	0.6375	-1E-04	6	0.5521	0.9655	1.7027	128.8204
20.5	142.4	0.9	-0.19	0.82	142.398	0.632	6	1.68531	121.5945	1.13358	0	1.1336	124.62	0.6371	-1E-04	6	0.5526	0.9626	1.7034	128.5192
20.6	143.2	0.92	-0.19	0.82	143.198	0.6425	6	1.68769	121.769	1.13967	0	1.1397	124.65	0.6476	-1E-04	6	0.5542	0.9597	1.7068	128.8442
20.7	144.6	0.94	-0.19	0.82	144.598	0.6501	6	1.68747	121.9501	1.14576	0	1.1458	125.2	0.6553	-1E-04	6	0.5548	0.9568	1.7075	129.7183
20.8	146.1	0.96	-0.19	0.81	146.098	0.6571	6	1.68679	122.1293	1.15187	0	1.1519	125.84	0.6623	-9E-05	6	0.5552	0.954	1.7078	130.6788
20.9	146	0.99	-0.19	0.82	145.998	0.6781	6	1.69546	122.3528	1.15799	0	1.158	125.08	0.6835	-9E-05	6	0.5592	0.9508	1.7176	130.1526
21	144.4	1.01	-0.19	0.8	144.398	0.6995	6	1.70759	122.4723	1.16411	0	1.1641	123.04	0.7051	-1E-04	6	0.5645	0.9475	1.7309	128.2645

21.1	142.3	1.03	-0.23	0.78	142.297	0.7238	6	1.72186	122.58	1.17024	0	1.1702	120.6	0.7298	-1E-04	6	0.5708	0.9441	1.7464	125.9251
21.2	139.5	1.04	-0.36	0.79	139.496	0.7455	6	1.73664	122.6022	1.17637	0	1.1764	117.58	0.7519	-2E-04	6	0.5772	0.9407	1.7625	122.9685
21.3	136.2	1.02	-0.55	0.8	136.193	0.7489	6	1.74597	122.4017	1.18249	0	1.1825	114.17	0.7555	-3E-04	6	0.5816	0.9374	1.7733	119.61
21.4	133.1	0.99	-0.87	0.8	133.089	0.7439	6	1.75195	122.127	1.1886	0	1.1886	110.97	0.7506	-5E-04	6	0.5847	0.9343	1.7806	116.4632
21.5	128.5	0.98	-1.01	0.79	128.488	0.7627	6	1.77067	121.9669	1.19469	0	1.1947	106.55	0.7699	-6E-04	6	0.5927	0.9306	1.8009	111.9496
21.6	123.6	0.97	-1.27	0.78	123.584	0.7849	6	1.79164	121.797	1.20078	0	1.2008	101.92	0.7926	-8E-04	6	0.6016	0.9267	1.8236	107.1871
21.7	117.3	0.96	-1.45	0.78	117.282	0.8185	6	1.82078	121.5935	1.20686	0	1.2069	96.179	0.8271	-9E-04	6	0.6138	0.9224	1.8547	101.1921
21.8	110.9	0.94	-1.85	0.78	110.877	0.8478	6	1.84937	121.3025	1.21293	0	1.2129	90.413	0.8572	-0.001	6	0.6257	0.9181	1.8853	95.15386
21.9	103.2	0.9	-2.32	0.77	103.172	0.8723	6	1.88161	120.8086	1.21897	0	1.219	83.638	0.8828	-0.002	6	0.6392	0.9135	1.9199	88.01981
22	95.9	0.86	-2.88	0.77	95.8648	0.8971	6	1.91424	120.2968	1.22498	0	1.225	77.258	0.9087	-0.002	6	0.6529	0.9088	1.9551	81.28671
22.1	89.8	0.85	-3.5	0.75	89.7572	0.947	6	1.95124	120.0506	1.23099	0	1.231	71.915	0.9602	-0.003	6	0.6682	0.9038	1.9945	75.61787
22.2	85.2	0.8	-4.35	0.76	85.1468	0.9396	6	1.96731	119.4784	1.23696	0	1.237	67.835	0.9534	-0.004	6	0.6755	0.8999	2.0128	71.36216
22.3	79.4	0.81	-5.52	0.76	79.3324	1.021	6	2.01365	119.3968	1.24293	0	1.2429	62.827	1.0373	-0.005	5	0.6945	0.8942	2.0619	65.9945
22.4	67.2	0.81	-6.41	0.75	67.1215	1.2068	5	2.1155	118.9892	1.24888	0	1.2489	52.745	1.2297	-0.007	5	0.7355	0.8852	2.1689	55.10948
22.5	51.6	0.91	-6.53	0.76	51.5201	1.7663	5	2.30863	119.1957	1.25484	0	1.2548	40.057	1.8104	-0.009	5	0.8125	0.8706	2.3705	41.35834
22.6	38.3	0.98	-6.37	0.75	38.222	2.564	4	2.51196	119.0098	1.26079	0	1.2608	29.316	2.6514	-0.012	4	0.8944	0.8549	2.5847	29.8636
22.7	32.6	1.05	-5.85	0.75	32.5284	3.228	4	2.63032	119.1212	1.26675	0	1.2668	24.679	3.3588	-0.013	4	0.9426	0.844	2.7106	24.93485
22.8	30.3	1.01	-5.67	0.76	30.2306	3.341	4	2.66414	118.6584	1.27268	0	1.2727	22.754	3.4878	-0.014	4	0.9575	0.838	2.749	22.93269
22.9	19	0.88	-6.46	0.77	18.9209	4.6509	3	2.91213	116.5073	1.27851	0	1.2785	13.799	4.988	-0.026	3	1	0.8276	3.018	13.79926
23	16.6	0.71	-6.93	0.76	16.5152	4.2991	3	2.93566	114.605	1.28424	0	1.2842	11.86	4.6616	-0.033	3	1	0.8239	3.0507	11.85993
23.1	13.4	0.61	-7.01	0.75	13.3142	4.5816	3	3.02591	112.9688	1.28988	0	1.2899	9.322	5.0731	-0.042	3	1	0.8203	3.1558	9.32201
23.2	12.3	0.48	-6.92	0.77	12.2153	3.9295	3	3.01471	111.005	1.29543	0	1.2954	8.4295	4.3957	-0.046	3	1	0.8168	3.1534	8.4295
23.3	12.3	0.44	-6.83	0.77	12.2164	3.6017	3	2.99207	110.3685	1.30095	0	1.301	8.3904	4.031	-0.045	3	1	0.8133	3.133	8.39035
23.4	13.3	0.43	-6.81	0.77	13.2167	3.2535	3	2.93838	110.3923	1.30647	0	1.3065	9.1163	3.6104	-0.041	3	1	0.8099	3.0758	9.11629
23.5	14.8	0.45	-6.81	0.77	14.7167	3.0578	3	2.88479	110.9871	1.31202	0	1.312	10.217	3.3571	-0.037	3	1	0.8065	3.0172	10.21677
23.6	14.7	0.49	-6.51	0.77	14.6203	3.3515	3	2.9108	111.5942	1.3176	0	1.3176	10.096	3.6835	-0.035	3	1	0.8031	3.0449	10.09616
23.7	14.5	0.49	-6.75	0.77	14.4174	3.3987	3	2.9193	111.5601	1.32318	0	1.3232	9.896	3.7421	-0.037	3	1	0.7997	3.0559	9.89602
23.8	13.9	0.47	-6.8	0.77	13.8168	3.4017	3	2.93433	111.1514	1.32874	0	1.3287	9.3984	3.7636	-0.039	3	1	0.7963	3.0755	9.39842
23.9	13.9	0.42	-6.74	0.77	13.8175	3.0396	3	2.90541	110.3285	1.33425	0	1.3343	9.356	3.3645	-0.039	3	1	0.793	3.049	9.35598
24	12	0.35	-6.81	0.77	11.9167	2.9371	3	2.94917	108.6335	1.33968	0	1.3397	7.8951	3.3091	-0.046	3	1	0.7898	3.1057	7.89511
24.1	10.1	0.31	-6.73	0.77	10.0176	3.0946	3	3.02407	107.3221	1.34505	0	1.3451	6.4478	3.5745	-0.056	3	1	0.7867	3.1974	6.44777
24.2	9.6	0.28	-6.67	0.78	9.51836	2.9417	3	3.03009	106.4527	1.35037	0	1.3504	6.0487	3.428	-0.059	3	1	0.7836	3.2105	6.04869
24.3	9.9	0.3	-6.53	0.77	9.82007	3.055	3	3.02806	107.0336	1.35573	0	1.3557	6.2434	3.5443	-0.056	3	1	0.7805	3.207	6.24341
24.4	11.1	0.32	-6.44	0.77	11.0212	2.9035	3	2.97422	107.7873	1.36111	0	1.3611	7.0972	3.3126	-0.048	3	1	0.7774	3.1444	7.09717
24.5	12.2	0.29	-6.38	0.77	12.1219	2.3924	3	2.89292	107.2992	1.36648	0	1.3665	7.8709	2.6963	-0.043	3	1	0.7743	3.0578	7.8709
24.6	13.1	0.31	-6.36	0.77	13.0222	2.3806	4	2.86584	107.9619	1.37188	0	1.3719	8.4922	2.6609	-0.039	3	1	0.7713	3.027	8.49221
24.7	12.7	0.4	-6.31	0.77	12.6228	3.1689	3	2.94784	109.751	1.37737	0	1.3774	8.1644	3.557	-0.04	3	1	0.7682	3.1114	8.16443
24.8	12.5	0.41	-6.24	0.77	12.4236	3.3002	3	2.96376	109.8928	1.38286	0	1.3829	7.984	3.7135	-0.041	3	1	0.7652	3.13	7.98401
24.9	22.7	0.2	-6.16	0.78	22.6246	0.884	5	2.43721	106.1024	1.38816	0	1.3882	15.298	0.9418	-0.021	5	0.8939	0.7845	2.5674	15.7452
25	58.3	0.26	-6.09	0.76	58.2255	0.4465	6	1.93586	110.3277	1.39368	0	1.3937	40.778	0.4575	-0.008	6	0.6869	0.8276	2.0237	44.45148
25.1	105.9	0.37	-6.69	0.75	105.818	0.3497	6	1.65649	114.3664	1.3994	0	1.3994	74.617	0.3543	-0.005	6	0.5739	0.8518	1.7264	84.05615
25.2	130.4	0.53	-7.02	0.73	130.314	0.4067	6	1.60961	117.5038	1.40527	0	1.4053	91.732	0.4111	-0.004	6	0.5546	0.8544	1.675	104.0898
25.3	141	0.67	-6.97	0.72	140.915	0.4755	6	1.61722	119.4096	1.41125	0	1.4113	98.851	0.4803	-0.004	6	0.5575	0.8517	1.6817	112.2881
25.4	148.7	0.78	-7	0.71	148.614	0.5249	6	1.62253	120.6517	1.41728	0	1.4173	103.86	0.5299	-0.003	6	0.5596	0.8491	1.6867	118.1239
25.5	148	0.85	-6.96	0.71	147.915	0.5747	6	1.6473	121.269	1.42334	0	1.4233	102.92	0.5802	-0.003	6	0.5698	0.8445	1.7127	116.9232
25.6	145.3	0.86	-6.93	0.71	145.215	0.5922	6	1.66152	121.3096	1.42941	0	1.4294	100.59	0.5981	-0.003	6	0.5761	0.8409	1.7284	114.2697
25.7	143.6	0.84	-6.89	0.7	143.516	0.5853	6	1.66258	121.1088	1.43546	0	1.4355	98.979	0.5912	-0.003	6	0.5773	0.8386	1.7308	112.5991
25.8	143.7	0.81	-6.89	0.69	143.616	0.564	6	1.65283	120.8444	1.4415	0	1.4415	98.629	0.5697	-0.003	6	0.5742	0.8373	1.7219	112.5083
25.9	143.7	0.8	-6.85	0.68	143.616	0.557	6	1.64966	120.7535	1.44754	0	1.4475	98.214	0.5627	-0.003	6	0.5736	0.8355	1.7197	112.254
26	141.3	0.81	-6.81	0.67	141.217	0.5736	6	1.66305	120.8033	1.45358	0	1.4536	96.151	0.5796	-0.004	6	0.5796	0.8319	1.7346	109.8833
26.1	134.1	0.88	-6.81	0.67	134.017	0.6566	6	1.71632	121.2821	1.45965	0.00312	1.4565	91.009	0.6639	-0.004	6	0.6009	0.8253	1.7901	103.3895
26.2	120.7	0.92	-6.79	0.67	120.617	0.7628	6	1.79225	121.3504	1.46571	0.00624	1.4595	81.64	0.7721	-0.004	6	0.6315	0.8162	1.87	91.91239
26.3	103.5	0.89	-6.74	0.67	103.418	0.8606	6	1.87717	120.7326	1.47175	0.00936	1.4624	69.712	0.873	-0.005	6	0.6661	0.8061	1.9605	77.66611
26.4	76.6	1.03	-6.74	0.66	76.5175	1.3461	5	2.10109	121.0668	1.4778	0.01248	1.4653	51.21	1.3726	-0.007	5	0.7564	0.7817	2.1961	55.43817
26.5	49.4	1.22	-6.67	0.66	49.3184	2.4737	5	2.41834	121.2343	1.48387	0.0156	1.4683	32.579	2.5505	-0.01	4	0.8843	0.7485	2.5322	33.83716
26.6	34.8	1.23	-6.45	0.65	34.7211	3.5425	4	2.63597	120.4381	1.48989	0.01872	1.4712	22.588	3.7013	-0.015	4	0.9741	0.7254	2.7678	22.7821
26.7	22.3	1.11	-4.39	0.67	22.2463	4.9896	3	2.87919	118.6012	1.49582	0.02184	1.474	14.078	5.3493	-0.016	3	1	0.7179	3.0307	14.07786
26.8	19.4	0.95	-4.11	0.67	19.3497	4.9096	3	2.92006	117.122	1.50167	0.02496	1.4767	12.086	5.3227	-0.018	3	1	0.7165	3.0804	12.08631
26.9	17.9	0.8	-3.51	0.67	17.857	4.48	3	2.92087	115.6688	1.50746	0.02808	1.4794	11.052	4.8931	-0.017	3	1	0.7152	3.0878	11.05167
27	16.7	0.75	-2.16	0.67	16.6736	4.4981	3	2.94491	115.0293	1.51321	0.0312	1.482	10.23	4.9471	-0.012	3	1	0.714	3.1172	10.2296
27.1	19.5	0.76	-0.56	0.65	19.4932	3.8988	3	2.85306	115.5073	1.51898	0.03432	1.4847	12.107	4.2283	-0.004	3	1	0.7127	3.0176	12.10655
27.2	21.5	0.6	0.89	0.65	21.5109	2.7893	4	2.72902	114.0179	1.52468	0.03744	1.4872	13.438	3.0021	0.0013	3	1	0.7115	2.8922	13.43841
27.3	28.7	0.61	2.9	0.62	28.7355	2.1228	4	2.55709	114.8451	1.53043	0.04056	1.4899	18.26	2.2422	0.0062	4	0.9508	0.7223	2.7041	18.57029
27.4	45.6	0.65	3.56	0.6	45.6436	1.4241	5	2.29224	116.4384	1.53625	0.04368	1.4926	29.551	1.4737	0.0048	5	0.8409	0.7488	2.4147	31.21415
27.5	67.6	0.69	-0.42	0.6	67.5949	1.0208	5	2.06911	117.8331	1.54214	0.0468	1.4953	44.172	1.0446	-0.001	5	0.7492	0.7717	2.1746	48.17482
27.6	88.7	0.72	-5.29	0.61	88.6353	0.8123	6	1.91553	118.8055	1.54808	0.04992	1.4982	58.129	0.8268	-0.005	6	0.687	0.7875	2.0109	64.81436
27.7	95.7	0.72	-8.26	0.61	95.5989	0.7532	6	1.86965	118.9899	1.55403	0.05304	1.501	62.655	0.7656	-0.007	6	0.6687	0.7915	1.9627	70.34899
27.8	100.1	0.77	-3	0.63	100.063	0.7695	6	1.85917	119.5925	1.56001	0.05616	1.5039	65.501	0.7817	-0.003	6	0.6645	0.7917	1.9511	73.70058
27.9	113.1	0.89	-5.16	0.63	113.037	0.7874	6	1.82297	120.9496	1.56606	0.05928	1.5068	73.98	0.7984	-0.004	6	0.6494	0.7949	1.9112	83.74003
28	121.1	1.01	-5.87	0.62	121.028	0.8345	6	1.81538	122.0417	1.57216	0.0624	1.5098	79.123	0.8455	-0.004	6	0.646	0.7948	1.9019	89.73219
28.1	126.7	1.1	-6.5	0.61	126.62	0.8687	6	1.81129	122.7764	1.5783	0.06552	1.5128	82.657	0.8797	-0.004	6	0.6442	0.7943	1.8969	93.86693

28.2	127.5	1.15	-7.21	0.61	127.412	0.9026	6	1.81989	123.1169	1.58445	0.06864	1.5158	83.01	0.914	-0.005	6	0.6478	0.7923	1.9059	94.21377
28.3	123.4	1.16	-7.79	0.61	123.305	0.9408	6	1.84237	123.1003	1.59061	0.07176	1.5189	80.136	0.9531	-0.005	6	0.6572	0.7886	1.9301	90.70839
28.4	122	1.15	-8.15	0.59	121.9	0.9434	6	1.84695	123.009	1.59676	0.07488	1.5219	79.049	0.9559	-0.006	6	0.6594	0.7869	1.9356	89.46695
28.5	124.4	1.11	-8.48	0.61	124.296	0.893	6	1.82514	122.7974	1.6029	0.078	1.5249	80.46	0.9047	-0.006	6	0.6511	0.7882	1.9135	91.40068
28.6	131	1.08	-8.8	0.6	130.892	0.8251	6	1.78591	122.7231	1.60904	0.08112	1.5279	84.614	0.8354	-0.006	6	0.6358	0.7917	1.8728	96.72988
28.7	141.2	1.02	-9.14	0.59	141.088	0.723	6	1.72442	122.4878	1.61516	0.08424	1.5309	91.104	0.7313	-0.005	6	0.6116	0.7978	1.809	105.1583
28.8	151	0.95	-9.48	0.59	150.884	0.6296	6	1.66436	122.1313	1.62127	0.08736	1.5339	97.309	0.6365	-0.005	6	0.5881	0.8038	1.7469	113.3917
28.9	155.3	0.86	-9.81	0.59	155.18	0.5542	6	1.62119	121.4715	1.62734	0.09048	1.5369	99.913	0.5601	-0.005	6	0.5715	0.8079	1.703	117.2422
29	152.8	0.75	-10.07	0.59	152.677	0.4912	6	1.59641	120.4305	1.63336	0.0936	1.5398	98.095	0.4966	-0.005	6	0.5625	0.8098	1.6789	115.5921
29.1	142.8	0.67	-10.13	0.59	142.676	0.4696	6	1.60974	119.4399	1.63933	0.09672	1.5426	91.427	0.4751	-0.006	6	0.5687	0.807	1.695	107.5683
29.2	123.1	0.65	-10.05	0.57	122.977	0.5286	6	1.69193	118.8558	1.64528	0.09984	1.5454	78.51	0.5357	-0.007	6	0.6025	0.7959	1.7831	91.26967
29.3	98	0.64	-9.86	0.57	97.8793	0.6539	6	1.82586	118.1856	1.65119	0.10296	1.5482	62.154	0.6651	-0.008	6	0.6572	0.7787	1.9265	70.81584
29.4	73.7	0.72	-9.83	0.57	73.5797	0.9785	6	2.02858	118.3514	1.6571	0.10608	1.551	46.371	1.0011	-0.011	5	0.7395	0.7537	2.1422	51.22884
29.5	54.3	0.94	-9.78	0.57	54.1803	1.735	5	2.28682	119.5559	1.66308	0.1092	1.5539	33.797	1.7899	-0.015	5	0.8443	0.7229	2.416	35.88142
29.6	42.4	1.12	-7.55	0.57	42.3076	2.6473	4	2.4877	120.2346	1.66909	0.11232	1.5568	26.104	2.756	-0.016	4	0.9261	0.6994	2.6309	26.85971
29.7	34.8	1.09	-7.67	0.57	34.7061	3.1407	4	2.6013	119.5528	1.67507	0.11544	1.5596	21.179	3.2999	-0.02	4	0.9742	0.6853	2.757	21.39209
29.8	29.4	1.22	-8.06	0.57	29.3014	4.1636	4	2.7377	119.9644	1.68107	0.11856	1.5625	17.677	4.417	-0.025	3	1	0.6772	2.9015	17.67688
29.9	23.2	0.69	-8.4	0.57	23.0972	2.9874	4	2.72306	115.214	1.68683	0.12168	1.5652	13.679	3.2227	-0.034	3	1	0.676	2.9041	13.67943
30	19.1	0.66	-8.55	0.57	18.9954	3.4745	3	2.83035	114.4119	1.69255	0.1248	1.5678	11.037	3.8144	-0.043	3	1	0.6749	3.0226	11.03671
30.1	16.7	0.69	-8.51	0.57	16.5958	4.1577	3	2.92487	114.4078	1.69827	0.12792	1.5704	9.4868	4.6316	-0.05	3	1	0.6738	3.1258	9.48678
30.2	19.3	0.66	-8.12	0.55	19.2006	3.4374	3	2.82379	114.4381	1.70399	0.13104	1.573	11.123	3.7722	-0.041	3	1	0.6727	3.017	11.12343
30.3	19.5	0.72	-8.2	0.55	19.3996	3.7114	3	2.84115	115.0999	1.70975	0.13416	1.5756	11.227	4.0701	-0.041	3	1	0.6716	3.0336	11.22749
30.4	18.2	0.76	-8.35	0.55	18.0978	4.1994	3	2.89846	115.3261	1.71551	0.13728	1.5782	10.38	4.6392	-0.045	3	1	0.6704	3.0951	10.38014
30.5	18.1	0.7	-8.44	0.55	17.9967	3.8896	3	2.8793	114.7107	1.72125	0.1404	1.5809	10.295	4.301	-0.046	3	1	0.6693	3.078	10.29538
30.6	18.7	0.64	-8.44	0.55	18.5967	3.4415	3	2.83499	114.135	1.72696	0.14352	1.5834	10.654	3.7938	-0.045	3	1	0.6682	3.0336	10.65388
30.7	19.7	0.63	-8.37	0.55	19.5976	3.2147	4	2.7988	114.1477	1.73266	0.14664	1.586	11.264	3.5265	-0.042	3	1	0.6672	2.9953	11.26395
30.8	20.9	0.7	-8.32	0.55	20.7982	3.3657	4	2.79096	115.0636	1.73842	0.14976	1.5887	11.997	3.6727	-0.039	3	1	0.666	2.9837	11.9974
30.9	21.7	0.79	-8.33	0.55	21.598	3.6577	3	2.80106	116.0407	1.74422	0.15288	1.5913	12.476	3.9791	-0.038	3	1	0.6649	2.9912	12.47618
31	21.4	0.81	-8.47	0.55	21.2963	3.8035	3	2.81659	116.1893	1.75003	0.156	1.594	12.262	4.144	-0.039	3	1	0.6638	3.0079	12.2622
31.1	21.7	0.79	-8.47	0.55	21.5963	3.658	3	2.80111	116.0405	1.75583	0.15912	1.5967	12.426	3.9818	-0.039	3	1	0.6627	2.9927	12.42586
31.2	24.1	0.81	-8.53	0.55	23.9956	3.3756	4	2.74361	116.4803	1.76165	0.16224	1.5994	13.901	3.6431	-0.035	3	1	0.6616	2.9306	13.9013
31.3	28.7	0.84	-8.66	0.54	28.594	2.9377	4	2.64648	117.1741	1.76751	0.16536	1.6022	16.744	3.1312	-0.029	4	1	0.6604	2.8265	16.74403
31.4	27.8	0.79	-8.87	0.52	27.6914	2.8529	4	2.64916	116.6468	1.77335	0.16848	1.6049	16.15	3.0481	-0.031	4	1	0.6593	2.8319	16.1497
31.5	23.5	0.75	-9.1	0.51	23.3886	3.2067	4	2.73809	115.8547	1.77914	0.1716	1.6075	13.443	3.4707	-0.038	3	1	0.6582	2.9295	13.44259
31.6	18.5	0.74	-9.25	0.51	18.3868	4.0246	3	2.88143	115.1696	1.7849	0.17472	1.6102	10.311	4.4573	-0.051	3	1	0.6571	3.0869	10.3106
31.7	16.1	0.72	-9.28	0.51	15.9864	4.5038	3	2.95939	114.628	1.79063	0.17784	1.6128	8.802	5.0719	-0.06	3	1	0.6561	3.1755	8.80202
31.8	17.5	0.69	-9.22	0.51	17.3872	3.9685	3	2.89642	114.5214	1.79635	0.18096	1.6154	9.6514	4.4257	-0.054	3	1	0.655	3.1079	9.65139
31.9	20.5	0.67	-9.22	0.51	20.3872	3.2864	4	2.79127	114.6944	1.80209	0.18408	1.618	11.486	3.6051	-0.046	3	1	0.654	2.9941	11.48638
32	22.4	0.72	-9.22	0.49	22.2872	3.2306	4	2.7564	115.4384	1.80786	0.1872	1.6207	12.636	3.5158	-0.042	3	1	0.6529	2.9543	12.63638
32.1	22.8	0.82	-9.22	0.49	22.6872	3.6144	4	2.7813	116.4334	1.81368	0.19032	1.6234	12.858	3.9284	-0.041	3	1	0.6518	2.9774	12.85817
32.2	23	0.81	-9.28	0.49	22.8864	3.5392	4	2.77255	116.3649	1.8195	0.19344	1.6261	12.956	3.8449	-0.041	3	1	0.6507	2.9691	12.9558
32.3	25.6	0.84	-9.3	0.49	25.4862	3.2959	4	2.71684	116.8934	1.82535	0.19656	1.6288	14.527	3.5502	-0.037	3	1	0.6496	2.9086	14.52667
32.4	35	0.61	-9.35	0.49	34.8856	1.7486	5	2.43912	115.3181	1.83111	0.19968	1.6314	20.261	1.8454	-0.026	4	0.9228	0.6706	2.6126	20.95004
32.5	47.5	0.73	-9.56	0.5	47.383	1.5406	5	2.30001	117.3789	1.83698	0.2028	1.6342	27.871	1.6028	-0.02	5	0.863	0.6872	2.4548	29.58149
32.6	57.3	0.84	-9.98	0.51	57.1778	1.4691	5	2.22309	118.8642	1.84292	0.20592	1.637	33.803	1.518	-0.017	5	0.8301	0.6961	2.368	36.40403
32.7	67.3	0.88	-10.58	0.5	67.1705	1.3101	5	2.13739	119.5974	1.8489	0.20904	1.6399	39.834	1.3472	-0.015	5	0.794	0.7062	2.2742	43.59618
32.8	77.9	0.85	-11.07	0.5	77.7645	1.093	6	2.03867	119.7008	1.85489	0.21216	1.6427	46.209	1.1198	-0.013	5	0.7539	0.7178	2.1684	51.49384
32.9	84	0.8	-11.39	0.51	83.8606	0.954	6	1.97657	119.4413	1.86086	0.21528	1.6456	49.83	0.9756	-0.013	5	0.7291	0.7247	2.103	56.16384
33	88.7	0.78	-11.58	0.49	88.5583	0.8808	6	1.93676	119.389	1.86683	0.2184	1.6484	52.59	0.8997	-0.012	6	0.7132	0.7289	2.061	59.72092
33.1	91.7	0.82	-11.65	0.49	91.5574	0.8956	6	1.92963	119.8362	1.87282	0.22152	1.6513	54.311	0.9143	-0.012	6	0.7102	0.729	2.0529	61.78749
33.2	92.1	0.87	-11.79	0.51	91.9557	0.9461	6	1.9427	120.2798	1.87884	0.22464	1.6542	54.454	0.9658	-0.012	5	0.7155	0.7264	2.0664	61.83435
33.3	93.9	0.96	-11.86	0.51	93.7548	1.024	6	1.95747	121.0474	1.88489	0.22776	1.6571	55.439	1.045	-0.012	5	0.7212	0.7236	2.081	62.82484
33.4	99.8	1.02	-11.93	0.51	99.654	1.0235	6	1.93682	121.6398	1.89097	0.23088	1.6601	58.89	1.0433	-0.011	5	0.7126	0.7255	2.0581	67.02771
33.5	106.6	0.96	-12	0.51	106.453	0.9018	6	1.87991	121.3572	1.89704	0.234	1.663	62.871	0.9182	-0.011	6	0.69	0.732	1.9984	72.32934
33.6	110	0.93	-12.13	0.5	109.852	0.8466	6	1.85215	121.2015	1.9031	0.23712	1.666	64.796	0.8615	-0.01	6	0.6792	0.7347	1.9696	74.95265
33.7	109.6	1.02	-12.21	0.51	109.451	0.9319	6	1.87951	121.8685	1.90919	0.24024	1.669	64.437	0.9485	-0.01	6	0.6901	0.7302	1.9978	74.21021
33.8	106.4	1.1	-12.24	0.51	106.25	1.0353	6	1.91859	122.3486	1.91531	0.24336	1.672	62.403	1.0543	-0.011	6	0.7059	0.724	2.039	71.38974
33.9	101.3	1.21	-12.24	0.51	101.15	1.1962	6	1.97563	122.926	1.92145	0.24648	1.675	59.242	1.2194	-0.011	5	0.729	0.7155	2.0992	67.09509
34	94.4	1.26	-12.24	0.5	94.2502	1.3369	6	2.03054	123.05	1.92761	0.2496	1.678	55.019	1.3648	-0.012	5	0.7516	0.7071	2.1582	61.69616
34.1	88.5	1.31	-12.24	0.49	88.3502	1.4827	5	2.08143	123.177	1.93377	0.25272	1.6811	51.406	1.5159	-0.013	5	0.7726	0.6993	2.213	57.11257
34.2	89.1	1.37	-12.24	0.5	88.9502	1.5402	5	2.09033	123.5212	1.93994	0.25584	1.6841	51.666	1.5745	-0.013	5	0.7763	0.6971	2.2222	57.32698
34.3	99.2	1.35	-12.26	0.51	99.0499	1.363	6	2.02006	123.6759	1.94613	0.25896	1.6872	57.554	1.3903	-0.012	5	0.7478	0.7055	2.147	64.7415
34.4	110.2	1.23	-12.34	0.51	110.049	1.1177	6	1.92865	123.2516	1.95229	0.26208	1.6902	63.955	1.1379	-0.011	5	0.7113	0.7167	2.0508	73.21511
34.5	123.2	1.12	-12.47	0.49	123.047	0.9102	6	1.83382	122.8384	1.95843	0.2652	1.6932	71.514	0.9249	-0.01	6	0.6734	0.7286	1.9509	83.38346
34.6	122.3	1.03	-12.54	0.49	122.147	0.8433	6	1.81513	122.2076	1.96454	0.26832	1.6962	70.853	0.857	-0.01	6	0.6667	0.7301	1.9329	82.92327
34.7	119.9	1	-12.46	0.49	119.747	0.8351	6	1.81916	121.9429	1.97064	0.27144	1.6992	69.313	0.8491	-0.01	6	0.6689	0.7285	1.9383	81.08405
34.8	117.1	1.02	-12.46	0.51	116.947	0.8722	6	1.83903	122.0301	1.97674	0.27456	1.7022	67.543	0.8872	-0.01	6	0.6772	0.7247	1.9599	78.74614
34.9	114.6	1.02	-12.53	0.49	114.447	0.8913	6	1.85224	121.9774	1.98284	0.27768	1.7052	65.955	0.907	-0.01	6	0.683	0.7219	1.9746	76.7265
35	112.5	0.99	-12.48	0.49	112.347	0.8812	6	1.85538	121.7138	1.98892	0.2808	1.7081	64.608	0.8971	-0.011	6	0.6848	0.7204	1.9791	75.13401
35.1	109.3	0.99	-12.46	0.49	109.147	0.907	6	1.87303	121.6433	1.99501	0.28392	1.7111	62.622	0.9239	-0.011	6	0.6924	0.7169	1.9987	72.59908
35.2	105.2	0.94	-12.46	0.49	105.047	0.8948	6	1.88232	121.1707	2.00106	0.28704	1.714	60.12	0.9122	-0.011	6	0.697	0.7145	2.0103	69.58074

35.3	99.1	0.96	-12.46	0.49	98.9475	0.9702	6	1.92455	121.1789	2.00712	0.29016	1.717	56.46	0.9903	-0.012	5	0.7146	0.7076	2.0562	64.8247
35.4	92.2	1.11	-12.46	0.49	92.0475	1.2059	6	2.00895	122.0649	2.01323	0.29328	1.72	52.347	1.2329	-0.013	5	0.7487	0.6951	2.1452	59.14537
35.5	84.7	1.14	-12.43	0.5	84.5479	1.3484	5	2.06852	122.0527	2.01933	0.2964	1.7229	47.9	1.3813	-0.014	5	0.7735	0.6859	2.21	53.49367
35.6	75.3	1.2	-12.42	0.5	75.148	1.5969	5	2.15536	122.1406	2.02544	0.29952	1.7259	42.367	1.6411	-0.016	5	0.8094	0.673	2.304	46.50768
35.7	69.8	1.29	-12.4	0.49	69.6482	1.8522	5	2.22284	122.4844	2.03156	0.30264	1.7289	39.109	1.9078	-0.018	5	0.8378	0.6627	2.3767	42.35059
35.8	70.1	1.33	-0.28	0.49	70.0966	1.8974	5	2.22781	122.7234	2.0377	0.30576	1.7319	39.296	1.9542	-0.005	5	0.84	0.6611	2.382	42.52056
35.9	75.7	1.34	-1.82	0.49	75.6777	1.7707	5	2.18299	122.9651	2.04385	0.30888	1.735	42.441	1.8198	-0.006	5	0.821	0.6663	2.3333	46.36923
36	94	1.34	-6.89	0.49	93.9157	1.4268	5	2.05055	123.4917	2.05002	0.312	1.738	52.857	1.4587	-0.009	5	0.7664	0.6837	2.1894	59.35458
36.1	109.2	1.3	-6.88	0.49	109.116	1.1914	6	1.94976	123.6359	2.0562	0.31512	1.7411	61.49	1.2143	-0.008	5	0.7253	0.6968	2.0812	70.5059
36.2	111	1.18	-6.75	0.49	110.917	1.0639	6	1.91203	122.9671	2.06235	0.31824	1.7441	62.413	1.084	-0.007	6	0.7109	0.701	2.0429	72.11632
36.3	110.3	1.15	-6.8	0.49	110.217	1.0434	6	1.90863	122.7633	2.06849	0.32136	1.7471	61.901	1.0634	-0.008	6	0.71	0.7004	2.0403	71.59057
36.4	110.9	1.17	-6.76	0.49	110.817	1.0558	6	1.91017	122.9027	2.07463	0.32448	1.7502	62.133	1.0759	-0.007	6	0.7108	0.6993	2.0421	71.86554
36.5	111.5	1.24	-6.57	0.49	111.42	1.1129	6	1.92338	123.3411	2.0808	0.3276	1.7532	62.365	1.1341	-0.007	5	0.7161	0.6966	2.0557	71.97698
36.6	115.5	1.31	-7.32	0.49	115.41	1.1351	6	1.91759	123.8287	2.08699	0.33072	1.7563	64.525	1.156	-0.008	5	0.7136	0.6966	2.0487	74.60172
36.7	125.1	1.28	-8.24	0.49	124.999	1.024	6	1.86199	123.8539	2.09318	0.33384	1.7593	69.859	1.0415	-0.008	6	0.6912	0.7037	1.9894	81.73601
36.8	139.1	1.24	-9.08	0.5	138.989	0.8922	6	1.78791	123.8803	2.09938	0.33696	1.7624	77.671	0.9058	-0.007	6	0.6612	0.7137	1.9104	92.32655
36.9	151.9	1.22	-9.76	0.51	151.781	0.8038	6	1.72938	123.9761	2.10558	0.34008	1.7655	84.778	0.8151	-0.007	6	0.6376	0.7215	1.8479	102.0624
37	157.5	1.22	-10.03	0.51	157.377	0.7752	6	1.7072	124.0644	2.11178	0.3432	1.7686	87.791	0.7858	-0.007	6	0.6288	0.724	1.8243	106.2364
37.1	159.3	1.26	-10.13	0.51	159.176	0.7916	6	1.70938	124.3281	2.118	0.34632	1.7717	88.649	0.8023	-0.007	6	0.6297	0.7228	1.8265	107.2915
37.2	170.5	1.3	-10.11	0.51	170.376	0.763	6	1.67662	124.7227	2.12423	0.34944	1.7748	94.801	0.7727	-0.006	6	0.6163	0.7271	1.7909	115.6105
37.3	193.4	1.33	-10.06	0.51	193.277	0.6881	6	1.60586	125.1972	2.13049	0.35256	1.7779	107.51	0.6958	-0.006	6	0.5873	0.7373	1.7145	133.1858
37.4	222	1.39	-10.2	0.51	221.875	0.6265	6	1.53394	125.8566	2.13679	0.35568	1.7811	123.37	0.6326	-0.005	6	0.5578	0.7479	1.6364	155.3209
37.5	240	1.45	-10.81	0.51	239.868	0.6045	6	1.49834	126.356	2.1431	0.3588	1.7843	133.23	0.61	-0.005	6	0.5432	0.7529	1.5977	169.1539
37.6	253.6	1.41	-11.01	0.51	253.465	0.5563	6	1.45645	126.2858	2.14942	0.36192	1.7875	140.6	0.5611	-0.005	6	0.5265	0.7588	1.5535	180.2202
37.7	263.5	1.29	-11.14	0.51	263.364	0.4898	6	1.40769	125.7284	2.1557	0.36504	1.7907	145.87	0.4939	-0.004	6	0.5074	0.7657	1.503	189.0248
37.8	260.2	1.16	-11.15	0.51	260.064	0.446	6	1.38601	124.9204	2.16195	0.36816	1.7938	143.77	0.4498	-0.005	6	0.4996	0.7682	1.482	187.2404
37.9	246.7	1.07	-11.11	0.51	246.564	0.434	6	1.39677	124.1995	2.16816	0.37128	1.7969	136.01	0.4378	-0.005	6	0.5049	0.7654	1.4955	176.7877
38	221.8	1.05	-11.11	0.51	221.664	0.4737	6	1.45662	123.8018	2.17435	0.3744	1.8	121.94	0.4784	-0.005	6	0.5299	0.7546	1.5608	156.5385
38.1	189.6	1.18	-11.11	0.51	189.464	0.6228	6	1.5843	124.273	2.18056	0.37752	1.803	103.87	0.6301	-0.006	6	0.5819	0.7333	1.697	129.7995
38.2	144.1	1.57	-11.11	0.51	143.964	1.0906	6	1.83502	125.6926	2.18685	0.38064	1.8062	78.494	1.1074	-0.008	6	0.6833	0.6939	1.963	92.9777
38.3	103.5	1.82	-11.05	0.52	103.365	1.7608	5	2.08306	125.9658	2.19315	0.38376	1.8094	55.915	1.7989	-0.012	5	0.7852	0.6562	2.2299	62.74559
38.4	70.8	1.84	-10.95	0.53	70.666	2.6038	5	2.31998	125.1182	2.1994	0.38688	1.8125	37.774	2.6874	-0.017	4	0.885	0.6211	2.4904	40.18698
38.5	46.7	1.37	-10.88	0.52	46.5668	2.942	4	2.48746	121.9427	2.2055	0.39	1.8155	24.435	3.0883	-0.026	4	0.9596	0.5957	2.6867	24.97343
38.6	33.2	1.37	-10.64	0.52	33.0698	4.1428	4	2.69753	121.108	2.21156	0.39312	1.8184	16.97	4.4397	-0.038	3	1	0.5819	2.9165	16.96965
38.7	30.5	1.36	-9.97	0.53	30.378	4.4769	3	2.74747	120.8473	2.2176	0.39624	1.8214	15.461	4.8295	-0.04	3	1	0.5809	2.971	15.4612
38.8	44.4	1.38	4.95	0.53	44.4606	3.1039	4	2.51801	121.8831	2.22369	0.39936	1.8243	23.152	3.2673	-0.001	4	0.9737	0.5884	2.7229	23.48553
38.9	75.8	1.46	31.68	0.54	76.1878	1.9163	5	2.20409	123.609	2.22987	0.40248	1.8274	40.472	1.9741	0.0254	5	0.8402	0.6319	2.3721	44.16558
39	101.4	1.48	17.28	0.55	101.612	1.4565	5	2.03138	124.4109	2.23609	0.4056	1.8305	54.289	1.4893	0.0084	5	0.7681	0.6564	2.1825	61.64748
39.1	143	1.32	-1.33	0.55	142.984	0.9232	6	1.78843	124.4069	2.24231	0.40872	1.8336	76.757	0.9379	-0.004	6	0.6685	0.6924	1.9205	92.10372
39.2	158.7	1.26	-5.7	0.55	158.63	0.7943	6	1.71148	124.3198	2.24853	0.41184	1.8367	85.143	0.8057	-0.005	6	0.6373	0.7037	1.8383	103.9952
39.3	153	1.35	-6.99	0.56	152.914	0.8829	6	1.75374	124.7351	2.25477	0.41496	1.8398	81.889	0.8961	-0.006	6	0.6546	0.6962	1.8832	99.1324
39.4	136.5	1.56	-7.34	0.57	136.41	1.1436	6	1.86621	125.5144	2.26104	0.41808	1.843	72.79	1.1629	-0.007	6	0.7002	0.678	2.0027	85.96321
39.5	120.3	1.97	-7.34	0.57	120.21	1.6388	5	2.01468	126.9135	2.26739	0.4212	1.8462	63.885	1.6703	-0.008	5	0.76	0.655	2.1594	73.01439
39.6	120.7	2.25	-7.1	0.59	120.613	1.8655	5	2.05412	127.894	2.27378	0.42432	1.8495	63.986	1.9013	-0.008	5	0.7755	0.6486	2.1994	72.534
39.7	110.1	2.31	-7.92	0.58	110.003	2.0999	5	2.11896	127.862	2.28018	0.42744	1.8527	58.143	2.1444	-0.009	5	0.8026	0.6379	2.2702	64.94286
39.8	103	2.16	-8.86	0.58	102.892	2.0993	5	2.13887	127.2078	2.28654	0.43056	1.856	54.206	2.147	-0.011	5	0.8119	0.6337	2.2945	60.24779
39.9	114.6	1.47	-9.45	0.59	114.484	1.284	6	1.95616	124.6522	2.29277	0.43368	1.8591	60.348	1.3103	-0.01	5	0.74	0.659	2.1051	69.87234
40	157.1	1.58	-9.51	0.59	156.984	1.0065	6	1.78376	125.9503	2.29907	0.4368	1.8623	83.063	1.0214	-0.007	6	0.6679	0.6855	1.9155	100.2156
40.1	195.2	1.77	-8.47	0.59	195.096	0.9072	6	1.68444	127.3113	2.30543	0.43992	1.8655	103.34	0.9181	-0.005	6	0.6261	0.7012	1.8052	127.7556
40.2	218.8	1.81	-2.18	0.57	218.773	0.8273	6	1.62089	127.7541	2.31182	0.44304	1.8688	115.83	0.8362	-0.003	6	0.5999	0.7109	1.7361	145.4324
40.3	233	1.9	-3.56	0.55	232.956	0.8156	6	1.59717	128.2624	2.31823	0.44616	1.8721	123.2	0.8238	-0.003	6	0.59	0.7142	1.7096	155.6723
40.4	234.1	2.12	-7.06	0.54	234.014	0.9059	6	1.62844	129.0751	2.32469	0.44928	1.8754	123.54	0.915	-0.004	6	0.6022	0.7085	1.7414	155.1263
40.5	226.9	2.19	-8.2	0.53	226.8	0.9656	6	1.65789	129.2365	2.33115	0.4524	1.8788	119.48	0.9756	-0.005	6	0.6144	0.7028	1.773	149.0836
40.6	220.5	2.15	-8.55	0.53	220.395	0.9755	6	1.66967	129.0317	2.3376	0.45552	1.8821	115.86	0.986	-0.005	6	0.6198	0.6998	1.7867	144.2221
40.7	217.1	2.11	-8.87	0.52	216.991	0.9724	6	1.67333	128.8563	2.34404	0.45864	1.8854	113.85	0.983	-0.005	6	0.6218	0.6983	1.7915	141.6467
40.8	218.7	2.09	-9.28	0.51	218.586	0.9561	6	1.66585	128.8045	2.35048	0.46176	1.8887	114.49	0.9665	-0.005	6	0.6191	0.6986	1.784	142.761
40.9	224.7	2.11	-9.66	0.51	224.582	0.9395	6	1.65222	128.9402	2.35693	0.46488	1.8921	117.45	0.9495	-0.005	6	0.6137	0.7	1.7694	147.0169
41	232	2.14	-9.97	0.51	231.878	0.9229	6	1.63702	129.1215	2.36339	0.468	1.8954	121.09	0.9324	-0.005	6	0.6076	0.7018	1.753	152.2162
41.1	235.5	2.16	-10.22	0.49	235.375	0.9177	6	1.63076	129.226	2.36985	0.47112	1.8987	122.72	0.927	-0.005	6	0.6052	0.702	1.7464	154.5792
41.2	235.2	2.13	-10.43	0.49	235.072	0.9061	6	1.62715	129.1206	2.3763	0.47424	1.9021	122.34	0.9154	-0.005	6	0.6042	0.7017	1.7432	154.3049
41.3	231.4	2.04	-10.56	0.49	231.271	0.8821	6	1.62365	128.7649	2.38274	0.47736	1.9054	120.13	0.8913	-0.005	6	0.6034	0.7012	1.7409	151.6848
41.4	224.3	1.95	-10.64	0.49	224.17	0.8699	6	1.62879	128.3587	2.38916	0.48048	1.9087	116.2	0.8793	-0.006	6	0.6063	0.6993	1.748	146.5729
41.5	216.6	1.67	-10.7	0.49	216.469	0.7715	6	1.60304	127.1393	2.39552	0.4836	1.9119	111.97	0.7801	-0.006	6	0.5974	0.7023	1.7241	142.0821
41.6	206.7	1.62	-10.77	0.5	206.568	0.7842	6	1.6227	126.8027	2.40186	0.48672	1.9151	106.61	0.7935	-0.006	6	0.6061	0.6979	1.7467	134.6695
41.7	193.6	1.61	-10.83	0.5	193.467	0.8322	6	1.66108	126.5976	2.40819	0.48984	1.9184	99.596	0.8427	-0.007	6	0.6225	0.6905	1.7891	124.6799
41.8	169.2	1.64	-10.31	0.49	169.074	0.97	6	1.74934	126.4039	2.41451	0.49296	1.9216	86.732	0.984	-0.007	6	0.6593	0.6748	1.8855	106.2807
41.9	149	1.67	-9.28	0.48	148.886	1.1217	6	1.83286	126.2264	2.42082	0.49608	1.9247	76.096	1.1402	-0.008	6	0.6943	0.6601	1.977	91.36892
42	139	1.71	-9.14	0.48	138.888	1.2312	6	1.88269	126.2301	2.42713	0.4992	1.9279	70.781	1.2531	-0.008	6	0.7152	0.6511	2.0315	83.97007
42.1	127.4	1.73	-9.44	0.48	127.284	1.3592	6	1.93978	126.1024	2.43343	0.50232	1.9311	64.652	1.3857	-0.009	5	0.7393	0.641	2.0944	75.63046
42.2	126.2	1.73	-9.99	0.46	126.078	1.3722	6	1.94563	126.0791	2.43974	0.50544	1.9343	63.919	1.3993	-0.01	5	0.7421	0.6391	2.1013	74.67855
42.3	131.7	1.73	-10.5	0.47	131.571	1.3149	6	1.91944	126.1832	2.44605	0.50856	1.9375	66.646	1.3398	-0.01	5	0.7315	0.6424	2.073	78.40024

42.4	127.8	1.82	-11.11	0.47	127.664	1.4256	6	1.95338	126.4807	2.45237	0.51168	1.9407	64.519	1.4535	-0.01	5	0.7455	0.6362	2.1094	75.28906
42.5	125.1	1.64	-11.29	0.46	124.962	1.3124	6	1.93498	125.6666	2.45865	0.5148	1.9439	63.021	1.3387	-0.011	5	0.7392	0.6379	2.0926	73.85169
42.6	118.4	1.43	-11.43	0.45	118.26	1.2092	6	1.92814	124.5295	2.46488	0.51792	1.947	59.475	1.2349	-0.012	5	0.7382	0.6376	2.0893	69.77118
42.7	113.2	1.33	-11.59	0.45	113.058	1.1764	6	1.93459	123.8894	2.47108	0.52104	1.95	56.71	1.2027	-0.012	5	0.742	0.6353	2.099	66.40021
42.8	111.5	1.3	-11.73	0.45	111.356	1.1674	6	1.9373	123.6854	2.47726	0.52416	1.9531	55.747	1.194	-0.013	5	0.7437	0.6339	2.1031	65.22991
42.9	110.4	1.28	-11.81	0.43	110.255	1.1609	6	1.93892	123.5478	2.48344	0.52728	1.9562	55.094	1.1877	-0.013	5	0.7449	0.6327	2.1058	64.44454
43	107.4	1.29	-11.88	0.43	107.255	1.2028	6	1.95808	123.5374	2.48961	0.5304	1.9592	53.473	1.2313	-0.013	5	0.7532	0.6288	2.1273	62.25344
43.1	106.4	1.48	-12	0.43	106.253	1.3929	6	2.00396	124.5199	2.49584	0.53352	1.9623	52.875	1.4264	-0.013	5	0.7714	0.621	2.1747	60.89373
43.2	109.4	1.63	-12.07	0.43	109.252	1.492	6	2.01564	125.2941	2.5021	0.53664	1.9655	54.313	1.5269	-0.013	5	0.7756	0.6186	2.1853	62.41089
43.3	106.8	1.71	-12.2	0.43	106.651	1.6034	5	2.04488	125.5859	2.50838	0.53976	1.9686	52.901	1.642	-0.014	5	0.7877	0.6132	2.2168	60.35406
43.4	105.4	1.67	-12.33	0.43	105.249	1.5867	5	2.04585	125.3805	2.51465	0.54288	1.9718	52.103	1.6256	-0.014	5	0.7887	0.612	2.2191	59.42501
43.5	109.9	1.59	-12.35	0.43	109.749	1.4488	6	2.0054	125.1234	2.52091	0.546	1.9749	54.295	1.4828	-0.013	5	0.7726	0.6175	2.1763	62.57418
43.6	120.1	1.58	-12.29	0.42	119.95	1.3172	6	1.94895	125.294	2.52717	0.54912	1.9781	59.363	1.3456	-0.012	5	0.7492	0.6258	2.1145	69.44721
43.7	134.5	1.62	-12.22	0.43	134.35	1.2058	6	1.88681	125.7535	2.53346	0.55224	1.9812	66.533	1.229	-0.011	5	0.7231	0.6354	2.0456	79.1508
43.8	155.6	1.46	-12.15	0.43	155.451	0.9392	6	1.76644	125.3484	2.53973	0.55536	1.9844	77.058	0.9548	-0.009	6	0.6741	0.6545	1.9163	94.58694
43.9	174.8	1.41	-12.09	0.43	174.652	0.8073	6	1.68482	125.3775	2.546	0.55848	1.9875	86.593	0.8193	-0.008	6	0.6405	0.6678	1.8279	108.6172
44	182.1	1.51	-12.08	0.42	181.952	0.8299	6	1.67974	125.9787	2.5523	0.5616	1.9907	90.119	0.8417	-0.008	6	0.638	0.6682	1.821	113.2831
44.1	184.9	1.62	-12.08	0.41	184.752	0.8769	6	1.69122	126.5304	2.55862	0.56472	1.9939	91.375	0.8892	-0.008	6	0.6425	0.6656	1.8322	114.6086
44.2	185.4	1.67	-12.04	0.41	185.253	0.9015	6	1.69867	126.7595	2.56496	0.56784	1.9971	91.476	0.9141	-0.008	6	0.6456	0.6636	1.84	114.5731
44.3	184.5	1.69	-12.01	0.41	184.353	0.9167	6	1.70524	126.8347	2.5713	0.57096	2.0003	90.875	0.9297	-0.008	6	0.6485	0.6617	1.8473	113.6729
44.4	183	1.72	-12.01	0.41	182.853	0.9407	6	1.71556	126.9435	2.57765	0.57408	2.0036	89.977	0.9541	-0.008	6	0.653	0.6591	1.8586	112.293
44.5	181.7	1.66	-11.99	0.39	181.553	0.9143	6	1.70925	126.6663	2.58398	0.5772	2.0068	89.182	0.9275	-0.008	6	0.651	0.6592	1.8531	111.5021
44.6	180.8	1.59	-11.93	0.39	180.654	0.8801	6	1.69942	126.339	2.5903	0.58032	2.01	88.59	0.8929	-0.008	6	0.6477	0.66	1.8439	111.0614
44.7	180.4	1.64	-11.93	0.37	180.254	0.9098	6	1.71003	126.5601	2.59663	0.58344	2.0132	88.247	0.9231	-0.008	6	0.6521	0.6574	1.8551	110.3779
44.8	182.1	1.69	-11.87	0.37	181.955	0.9288	6	1.71328	126.8027	2.60297	0.58656	2.0164	88.946	0.9423	-0.008	6	0.6535	0.6561	1.8583	111.2165
44.9	183.7	1.5	-11.68	0.36	183.557	0.8172	6	1.6724	125.9515	2.60927	0.58968	2.0196	89.596	0.829	-0.008	6	0.6379	0.6621	1.817	113.225
45	184.6	1.41	-11.63	0.35	184.458	0.7644	6	1.65132	125.5107	2.61554	0.5928	2.0227	89.899	0.7754	-0.008	6	0.63	0.6648	1.7959	114.254
45.1	184.2	1.46	-11.63	0.33	184.058	0.7932	6	1.6628	125.7604	2.62183	0.59592	2.0259	89.558	0.8047	-0.008	6	0.6348	0.6621	1.808	113.5339
45.2	189.1	1.53	-11.39	0.31	188.961	0.8097	6	1.66043	126.1671	2.62814	0.59904	2.0291	91.83	0.8211	-0.008	6	0.6336	0.662	1.8046	116.5702
45.3	193.3	1.59	-10.18	0.3	193.175	0.8231	6	1.65828	126.5024	2.63446	0.60216	2.0323	93.756	0.8345	-0.007	6	0.6326	0.6617	1.8016	119.1605
45.4	198.8	1.65	-10.14	0.32	198.676	0.8305	6	1.6521	126.8419	2.64081	0.60528	2.0355	96.307	0.8417	-0.007	6	0.63	0.6622	1.7942	122.6875
45.5	194	1.73	-10.2	0.31	193.875	0.8923	6	1.68137	127.1287	2.64716	0.6084	2.0388	93.796	0.9047	-0.007	6	0.6421	0.6563	1.8255	118.6151
45.6	184	1.69	-10.13	0.3	183.876	0.9191	6	1.70683	126.8284	2.6535	0.61152	2.042	88.748	0.9326	-0.007	6	0.6533	0.6508	1.8547	111.4672
45.7	169.6	1.62	-10.18	0.3	169.475	0.9559	6	1.74421	126.3199	2.65982	0.61464	2.0452	81.565	0.9711	-0.008	6	0.6698	0.6431	1.8976	101.3931
45.8	154.7	1.43	-10.15	0.28	154.576	0.9251	6	1.76383	125.1827	2.66608	0.61776	2.0483	74.163	0.9414	-0.009	6	0.6797	0.6383	1.9233	91.63477
45.9	146	1.26	-10.17	0.28	145.876	0.8638	6	1.76284	124.1153	2.67228	0.62088	2.0514	69.807	0.8799	-0.009	6	0.681	0.6371	1.9262	86.22196
46	144.3	1.25	-10.23	0.28	144.175	0.867	6	1.76775	124.0284	2.67849	0.624	2.0545	68.872	0.8834	-0.01	6	0.6835	0.6354	1.9323	84.96718
46.1	147.9	1.36	-10.35	0.28	147.773	0.9203	6	1.77684	124.7057	2.68472	0.62712	2.0576	70.513	0.9374	-0.009	6	0.6867	0.6334	1.9405	86.84677
46.2	160.7	1.51	-10.61	0.28	160.57	0.9404	6	1.75646	125.6738	2.691	0.63024	2.0608	76.612	0.9564	-0.009	6	0.6773	0.6367	1.9153	94.99807
46.3	185.6	1.53	-10.86	0.28	185.467	0.8249	6	1.67188	126.1216	2.69731	0.63336	2.064	88.553	0.8371	-0.008	6	0.6419	0.6513	1.8219	112.4924
46.4	197.8	1.33	-11.28	0.26	197.662	0.6729	6	1.59211	125.2519	2.70357	0.63648	2.0671	94.315	0.6822	-0.007	6	0.6101	0.6646	1.738	122.4539
46.5	200	1.42	-11.45	0.26	199.86	0.7105	6	1.60419	125.758	2.70986	0.6396	2.0703	95.23	0.7203	-0.007	6	0.6148	0.6619	1.75	123.3249
46.6	200.7	1.63	-11.48	0.26	200.559	0.8127	6	1.64266	126.7757	2.7162	0.64272	2.0735	95.416	0.8239	-0.007	6	0.6298	0.6546	1.7891	122.3977
46.7	202.6	1.75	-11.48	0.25	202.459	0.8644	6	1.65824	127.3185	2.72257	0.64584	2.0767	96.179	0.8762	-0.007	6	0.6359	0.6513	1.8047	122.9416
46.8	203.1	1.76	-11.45	0.24	202.96	0.8672	6	1.65845	127.3662	2.72893	0.64896	2.08	96.266	0.879	-0.007	6	0.6363	0.6505	1.8052	123.0949
46.9	200.9	1.75	-11.41	0.23	200.76	0.8717	6	1.66341	127.2979	2.7353	0.65208	2.0832	95.057	0.8837	-0.007	6	0.6387	0.6488	1.8112	121.4151
47	195.8	1.78	-11.43	0.21	195.66	0.9097	6	1.68438	127.3595	2.74167	0.6552	2.0865	92.462	0.9227	-0.008	6	0.6477	0.6442	1.8343	117.4507
47.1	185	1.84	-11.48	0.2	184.859	0.9954	6	1.72936	127.4636	2.74804	0.65832	2.0897	87.146	1.0104	-0.008	6	0.6666	0.6353	1.8835	109.3447
47.2	156.3	1.95	-11.41	0.22	156.16	1.2487	6	1.85083	127.477	2.75441	0.66144	2.093	73.296	1.2711	-0.01	6	0.7175	0.613	2.0168	88.87325
47.3	104.9	2.28	-11.41	0.2	104.76	2.1764	5	2.14481	127.6473	2.7608	0.66456	2.0962	48.658	2.2353	-0.015	5	0.8406	0.5629	2.3398	54.25991
47.4	70.1	2.19	-11.41	0.18	69.9603	3.1303	5	2.38006	126.3679	2.76711	0.66768	2.0994	32.005	3.2593	-0.022	4	0.9429	0.5241	2.6072	33.28154
47.5	48.9	1.9	-11.36	0.19	48.761	3.8966	4	2.55771	124.448	2.77334	0.6708	2.1025	21.872	4.1316	-0.032	3	1	0.5033	2.8122	21.87244
47.6	34.4	1.38	-11.25	0.2	34.2623	4.0278	4	2.67793	121.2476	2.7794	0.67392	2.1055	14.953	4.3833	-0.047	3	1	0.5026	2.9554	14.95284
47.7	26.1	1.15	-11.05	0.19	25.9648	4.4291	3	2.79466	119.2372	2.78536	0.67704	2.1083	10.994	4.9613	-0.064	3	1	0.5019	3.0933	10.99424
47.8	22.5	0.81	-10.83	0.19	22.3674	3.6213	4	2.78658	116.309	2.79118	0.68016	2.111	9.2734	4.1377	-0.075	3	1	0.5012	3.1044	9.27338
47.9	21.7	0.6	-3.92	0.2	21.652	2.7711	4	2.72504	114.0338	2.79688	0.68328	2.1136	8.9209	3.1822	-0.051	3	1	0.5006	3.0522	8.92087
48	22.6	0.49	6.54	0.2	22.6801	2.1605	4	2.64414	112.6651	2.80251	0.6864	2.1161	9.3934	2.4651	-0.011	3	1	0.5	2.9722	9.39343
48.1	21.7	0.43	9.06	0.19	21.8109	1.9715	4	2.63483	111.614	2.80809	0.68952	2.1186	8.9696	2.2628	-0.002	3	1	0.4994	2.9692	8.96963
48.2	20.9	0.39	11.24	0.18	21.0376	1.8538	4	2.63247	110.8116	2.81363	0.69264	2.121	8.5922	2.14	0.0064	3	1	0.4989	2.9723	8.59218
48.3	20.3	0.38	13	0.18	20.4591	1.8574	4	2.64294	110.5535	2.81916	0.69576	2.1234	8.3074	2.1542	0.0136	3	1	0.4983	2.9863	8.30741
48.4	19.9	0.37	14.09	0.18	20.0725	1.8433	4	2.64794	110.3118	2.82468	0.69888	2.1258	8.1136	2.1452	0.0183	3	1	0.4978	2.9941	8.11356
48.5	19.5	0.34	16.04	0.16	19.6963	1.7262	4	2.63889	109.647	2.83016	0.702	2.1282	7.9252	2.0159	0.0269	3	1	0.4972	2.989	7.92524
48.6	18.3	0.36	18.38	0.16	18.525	1.9433	4	2.68965	109.9157	2.83565	0.70512	2.1305	7.364	2.2946	0.0394	3	1	0.4966	3.0453	7.36403
48.7	17.1	0.49	20.12	0.16	17.3463	2.8248	4	2.8069	112.0112	2.84125	0.70824	2.133	6.8002	3.3781	0.051	3	1	0.4961	3.1645	6.80024
48.8	20	0.59	26.17	0.16	20.3203	2.9035	4	2.75925	113.756	2.84694	0.71136	2.1356	8.182	3.3766	0.0671	3	1	0.4955	3.0978	8.18202
48.9	29.7	0.68	33.17	0.16	30.106	2.2587	4	2.5575	115.7536	2.85273	0.71448	2.1383	12.746	2.4951	0.0614	4	1	0.4949	2.8647	12.74559
49	44.7	0.83	31.8	0.16	45.0892	1.8408	5	2.36485	118.1973	2.85864	0.7176	2.141	19.724	1.9654	0.0372	4	0.957	0.5094	2.6389	20.3317
49.1	59.4	1.02	13.49	0.16	59.5651	1.7124	5	2.25162	120.3846	2.86466	0.72072	2.1439	26.447	1.7989	0.0044	5	0.9045	0.528	2.4999	28.29104
49.2	76.5	1.1	-0.56	0.14	76.4932	1.438	5	2.11973	121.5472	2.87074	0.72384	2.1469	34.292	1.4941	-0.01	5	0.8456	0.5497	2.3466	38.25064
49.3	89.4	0.99	-5.23	0.16	89.336	1.1082	6	1.9954	121.1548	2.87679	0.72696	2.1498	40.217	1.1451	-0.013	5	0.7937	0.5697	2.2097	46.55164
49.4	92.5	0.98	-9.06	0.18	92.3891	1.0607	6	1.97208	121.1625	2.88285	0.73008	2.1528	41.577	1.0949	-0.015	5	0.7841	0.573	2.1842	48.46886

49.5	81.1	1.22	-10	0.16	80.9776	1.5066	5	2.11431	122.4437	2.88897	0.7332	2.1558	36.223	1.5623	-0.019	5	0.8429	0.5489	2.3383	40.50891
49.6	62.6	1.42	-10.26	0.15	62.4744	2.2729	5	2.31768	122.9218	2.89512	0.73632	2.1588	27.598	2.3834	-0.025	4	0.9299	0.5153	2.5653	29.01211
49.7	44.6	1.41	-10.35	0.14	44.4733	3.1704	4	2.52419	122.0411	2.90122	0.73944	2.1618	19.23	3.3917	-0.036	4	1	0.4895	2.8005	19.23047
49.8	32.6	1.28	-10.28	0.14	32.4742	3.9416	4	2.68867	120.5664	2.90725	0.74256	2.1647	13.659	4.3292	-0.05	3	1	0.4888	2.9827	13.65872
49.9	26.9	0	-10.08	0.14	26.7766	0	0	0	120.9	2.9133	0.74568	2.1676	11.009	0	-0.062	0	1	0.4881	0	0
50	24.8	0	-9.85	0.14	24.6794	0	0	0	120.9	2.91934	0.7488	2.1705	10.025	0	-0.067	0	1	0.4875	0	0

	CPT-9	In situ data			Basic output data															
Depth (ft)	qc (tsf)	fs (tsf)	u (psi)	Other	qt (tsf)	Rf(%)	SBT	Ic SBT	ã (pcf)	ó,v (tsf)	u0 (tsf)	ó',vo (tsf)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.1	1.2	0	0	0.03	1.2	0	0	0	120.9	0.00605	0	0.0061	197.51	0	0	0	1	175.04	0	0
0.2	3.6	0	0	-0.04	3.6	0	0	0	120.9	0.01209	0	0.0121	296.77	0	0	0	1	87.519	0	0
0.3	7.5	0.04	-0.05	0.06	7.49939	0.5334	4	2.78544	91.63301	0.01667	0	0.0167	448.83	0.5346	-5E-04	6	0.5583	10.149	1.8719	71.76938
0.4	12.4	0.05	-0.08	0.23	12.399	0.4033	5	2.53911	94.49207	0.0214	0	0.0214	578.49	0.404	-5E-04	6	0.5112	7.3466	1.744	85.94002
0.5	19.3	0.08	-0.08	0.09	19.299	0.4145	5	2.36245	99.01018	0.02635	0	0.0264	731.5	0.4151	-3E-04	6	0.4867	6.0326	1.6567	109.8789
0.6	24.4	0.1	-0.08	0.36	24.399	0.4099	5	2.2657	101.2148	0.03141	0	0.0314	775.85	0.4104	-2E-04	6	0.4711	5.2424	1.619	120.7286
0.7	28.7	0.12	-0.04	0.24	28.6995	0.4181	5	2.20358	102.9448	0.03655	0	0.0366	784.11	0.4187	-1E-04	6	0.4593	4.6914	1.6045	127.0856
0.8	32.4	0.15	0	0.05	32.4	0.463	5	2.17265	104.8734	0.0418	0	0.0418	774.15	0.4636	0	6	0.4609	4.4347	1.6046	135.6171
0.9	35.3	0.18	0	0.09	35.3	0.5099	5	2.15641	106.4165	0.04712	0	0.0471	748.16	0.5106	0	6	0.4688	4.3003	1.6086	143.2714
1	37.3	0.2	0	0.16	37.3	0.5362	5	2.1444	107.3218	0.05249	0	0.0525	709.67	0.537	0	6	0.4714	4.1197	1.617	145.0228
1.1	39.9	0.21	0	0.06	39.9	0.5263	5	2.11459	107.8432	0.05788	0	0.0579	688.39	0.5271	0	6	0.4678	3.8943	1.6084	146.636
1.2	41.3	0.21	0	0.07	41.3	0.5085	5	2.09453	107.9273	0.06327	0	0.0633	651.72	0.5093	0	6	0.4661	3.7171	1.604	144.8631
1.3	41.6	0.19	0	0.06	41.6	0.4567	6	2.07149	107.2126	0.06863	0	0.0686	605.11	0.4575	0	6	0.462	3.5389	1.5927	138.9027
1.4	42.1	0.18	0	0.07	42.1	0.4276	6	2.05475	106.8462	0.07398	0	0.074	568.1	0.4283	0	6	0.4601	3.4007	1.5873	135.0675
1.5	42.5	0.18	0	0.11	42.5	0.4235	6	2.04932	106.8692	0.07932	0	0.0793	534.8	0.4243	0	6	0.4618	3.3081	1.5919	132.6258
1.6	42.6	0.18	-0.08	0.1	42.599	0.4225	6	2.04798	106.8749	0.08466	0	0.0847	502.15	0.4234	-1E-04	6	0.4646	3.2326	1.599	129.8844
1.7	43.4	0.16	-0.08	0.01	43.399	0.3687	6	2.01679	106.0585	0.08997	0	0.09	481.39	0.3694	-1E-04	6	0.4572	3.086	1.579	126.3109
1.8	44.5	0.16	-0.08	0.11	44.499	0.3596	6	2.00255	106.1195	0.09527	0	0.0953	466.07	0.3603	-1E-04	6	0.4524	2.972	1.5784	124.7188
1.9	45.4	0.17	-0.08	0.06	45.399	0.3745	6	2.00146	106.6119	0.1006	0	0.1006	450.27	0.3753	-1E-04	6	0.456	2.924	1.5858	125.1802
2	46.2	0.18	-0.08	0.06	46.199	0.3896	6	2.00141	107.0728	0.10596	0	0.106	435.02	0.3905	-1E-04	6	0.4597	2.88	1.5937	125.4569
2.1	46	0.17	-0.08	0.06	45.999	0.3696	6	1.99396	106.644	0.11129	0	0.1113	412.33	0.3705	-1E-04	6	0.4596	2.8151	1.5924	122.0862
2.2	44.3	0.17	-0.08	0.06	44.299	0.3838	6	2.01547	106.5521	0.11662	0	0.1166	378.87	0.3848	-1E-04	6	0.4688	2.8121	1.6153	117.423
2.3	42.5	0.19	-0.07	0.06	42.4991	0.4471	6	2.05914	107.2648	0.12198	0	0.122	347.41	0.4484	-1E-04	6	0.4861	2.8582	1.6588	114.4697
2.4	41.1	0.19	0.03	0.08	41.1004	0.4623	6	2.07847	107.1832	0.12734	0	0.1273	321.76	0.4637	5E-05	6	0.4946	2.85	1.68	110.3618
2.5	40.3	0.2	0.08	0.08	40.301	0.4963	5	2.09944	107.5106	0.13271	0	0.1327	302.67	0.4979	0.0001	6	0.5042	2.8485	1.7039	108.1367
2.6	39.9	0.21	0.12	0.07	39.9015	0.5263	5	2.11457	107.8433	0.13811	0	0.1381	287.92	0.5281	0.0002	6	0.512	2.8362	1.7231	106.5829
2.7	39.7	0.21	0.15	0.06	39.7018	0.5289	5	2.11749	107.831	0.1435	0	0.1435	275.67	0.5309	0.0003	6	0.5153	2.7997	1.7309	104.6693
2.8	39.8	0.21	0.15	0.06	39.8018	0.5276	5	2.11603	107.8372	0.14889	0	0.1489	266.32	0.5296	0.0003	6	0.5172	2.7573	1.735	103.3304
2.9	40	0.21	0.22	0.04	40.0027	0.525	5	2.1131	107.8494	0.15428	0	0.1543	258.28	0.527	0.0004	6	0.5186	2.7143	1.7378	102.2195
3	39.8	0.22	0.23	0.06	39.8028	0.5527	5	2.12509	108.1776	0.15969	0	0.1597	248.25	0.555	0.0004	6	0.5251	2.6992	1.754	101.1298
3.1	39.2	0.22	0.23	0.06	39.2028	0.5612	5	2.13396	108.1406	0.1651	0	0.1651	236.45	0.5636	0.0004	6	0.5326	2.6894	1.7645	99.22239
3.2	38	0.22	0.25	0.04	38.0031	0.5789	5	2.15212	108.0648	0.1705	0	0.1705	221.89	0.5815	0.0005	6	0.5402	2.6809	1.7846	95.85554
3.3	36.3	0.23	0.27	0.04	36.3033	0.6336	5	2.18784	108.2784	0.17592	0	0.1759	205.37	0.6366	0.0005	6	0.5538	2.7012	1.8204	92.22835
3.4	34.3	0.22	0.27	0.04	34.3033	0.6413	5	2.21209	107.8149	0.18131	0	0.1813	188.2	0.6448	0.0006	6	0.563	2.6998	1.8442	87.06412
3.5	32.8	0.21	0.3	0.04	32.8037	0.6402	5	2.22894	107.3655	0.18667	0	0.1867	174.73	0.6438	0.0007	6	0.5699	2.6876	1.8618	82.84587
3.6	31.7	0.19	0.3	0.04	31.7037	0.5993	5	2.22913	106.55	0.192	0	0.192	164.12	0.603	0.0007	6	0.5709	2.6496	1.864	78.90889
3.7	30.7	0.18	0.3	0.04	30.7037	0.5863	5	2.23735	106.0763	0.19731	0	0.1973	154.61	0.59	0.0007	6	0.575	2.6265	1.8741	75.72324
3.8	30	0.17	0.3	0.04	30.0037	0.5666	5	2.23986	105.6018	0.20259	0	0.2026	147.1	0.5705	0.0007	6	0.5771	2.5962	1.8794	73.12133
3.9	29.6	0.16	0.38	0.04	29.6047	0.5405	5	2.23628	105.1255	0.20784	0	0.2078	141.44	0.5443	0.0009	6	0.5773	2.5589	1.8794	71.09362
4	29.6	0.17	0.38	0.04	29.6047	0.5742	5	2.24763	105.5691	0.21312	0	0.2131	137.91	0.5784	0.0009	6	0.5833	2.5465	1.8948	70.73412
4.1	29.2	0.17	0.38	0.05	29.2047	0.5821	5	2.25552	105.5359	0.2184	0	0.2184	132.72	0.5865	0.0009	6	0.5877	2.5277	1.9059	69.2449
4.2	28.2	0.17	0.42	0.06	28.2051	0.6027	5	2.27574	105.451	0.22367	0	0.2237	125.1	0.6075	0.0011	6	0.596	2.5249	1.9273	66.77169
4.3	27.1	0.16	0.45	0.05	27.1055	0.5903	5	2.28733	104.9104	0.22892	0	0.2289	117.41	0.5953	0.0012	6	0.601	2.5095	1.94	63.74389
4.4	26.1	0.15	0.45	0.04	26.1055	0.5746	5	2.29704	104.3465	0.23413	0	0.2341	110.5	0.5798	0.0013	6	0.6054	2.4922	1.951	60.93675
4.5	24.9	0.15	0.45	0.04	24.9055	0.6023	5	2.32426	104.2317	0.23934	0	0.2393	103.06	0.6081	0.0013	6	0.616	2.4983	1.9785	58.23966
4.6	23.5	0.14	0.52	0.04	23.5064	0.5956	5	2.34489	103.5859	0.24452	0	0.2445	95.131	0.6018	0.0016	6	0.624	2.4944	1.9988	54.83767
4.7	22.6	0.14	0.53	0.04	22.6065	0.6193	5	2.36745	103.4907	0.2497	0	0.2497	89.535	0.6262	0.0017	6	0.6331	2.4947	2.0223	52.70998
4.8	21.8	0.13	0.53	0.04	21.8065	0.5962	5	2.37462	102.8606	0.25484	0	0.2548	84.569	0.6032	0.0018	6	0.6366	2.4751	2.031	50.41249
4.9	20.8	0.12	0.53	0.02	20.8065	0.5767	5	2.3872	102.1604	0.25995	0	0.26	79.04	0.584	0.0019	6	0.6419	2.4621	2.0442	47.8098
5	19.6	0.11	0.53	0.03	19.6065	0.561	5	2.40589	101.3789	0.26502	0	0.265	72.982	0.5687	0.002	6	0.6491	2.4563	2.0627	44.8988
5.1	18.5	0.1	0.56	0.03	18.5069	0.5403	5	2.42239	100.5407	0.27005	0	0.2701	67.532	0.5483	0.0022	5	0.6556	2.4481	2.0792	42.19302
5.2	17.3	0.1	0.6	0.02	17.3073	0.5778	5	2.46064	100.3773	0.27506	0	0.2751	61.921	0.5871	0.0025	5	0.67	2.4659	2.1164	39.69404
5.3	15.2	0.1	0.61	0.04	15.2075	0.6576	5	2.53473	100.0618	0.28007	0	0.2801	53.299	0.6699	0.0029	5	0.6963	2.5232	2.1852	35.59633
5.4	14.2	0.08	0.75	0.02	14.2092	0.563	5	2.53509	98.26344	0.28498	0	0.285	48.86	0.5745	0.0039	5	0.6967	2.494	2.1856	32.82037
5.5	13.3	0.07	0.75	0.02	13.3092	0.526	5	2.55031	97.1268	0.28984	0	0.2898	44.92	0.5377	0.0042	5	0.7026	2.484	2.2007	30.56365
5.6	12.3	0.06	0.75	0.02	12.3092	0.4874	5	2.57002	95.80837	0.29463	0	0.2946	40.779	0.4994	0.0045	5	0.71	2.4789	2.2195	28.14669
5.7	11.3	0.05	0.75	0.02	11.3092	0.4421	5	2.59	94.26767	0.29934	0	0.2993	36.78	0.4541	0.0049	5	0.7174	2.4741	2.2384	25.74311
5.8	10.3	0.05	0.75	0.02	10.3092	0.485	4	2.64145	94.04187	0.30404	0	0.304	32.907	0.4997	0.0054	5	0.7365	2.5054	2.288	23.69041
5.9	9.3	0.05	0.75	0.02	9.30918	0.5371	4	2.6984	93.79301	0.30873	0	0.3087	29.153	0.5555	0.006	5	0.7557	2.5367	2.3437	21.57766
6	8.5	0.04	0.75	0	8.50918	0.4701	4	2.71539	91.94111	0.31333	0	0.3133	26.157	0.4881	0.0066	5	0.7622	2.5283	2.36	19.58346
6.1	7.7	0.04	0.75	-0.02	7.70918	0.5189	4	2.77011	91.7003	0.31791	0	0.3179	23.249	0.5412	0.0073	5	0.7829	2.5636	2.4133	17.90783
6.2	7.2	0.04	0.75	0	7.20918	0.5549	4	2.80741	91.53675	0.32249	0	0.3225	21.355	0.5808	0.0078	5	0.7977	2.5801	2.4511	16.79251
6.3	7	0.05	0.75	-0.01	7.00918	0.7134	4	2.85805	93.10087	0.32715	0	0.3272	20.425	0.7483	0.0081	5	0.8184	2.6134	2.5041	16.50363
6.4	7.2	0.05	0.75	-0.02	7.20918	0.6936	4	2.84215	93.16949	0.33181	0	0.3318	20.727	0.727	0.0079	5	0.8146	2.5721	2.4936	16.71761
6.5	7.9	0.05	0.75	-0.02	7.90918	0.6322	4	2.78987	93.39551	0.33647	0	0.3365	22.506	0.6603	0.0071	5	0.7981	2.4952	2.4498	17.85762
6.6	8.7	0.05	0.75	-0.03	8.70918	0.5741	4	2.73572	93.63051	0.34116	0	0.3412	24.528	0.5975	0.0065	5	0.7809	2.4202	2.4042	19.14035
6.7	9.8	0.06	0.75	-0.04	9.80918	0.6117	4	2.6977	95.25466	0.34592	0	0.3459	27.357	0.634	0.0057	5	0.7702	2.3658	2.3756	21.15906
6.8	11.6	0.07	0.75	-0.04	11.6092	0.603	4	2.62758	96.79349	0.35076	0	0.3508	32.097	0.6218	0.0048	5	0.7483	2.2847	2.3176	24.30949

6.9	14.1	0.09	0.75	-0.04	14.1092	0.6379	5	2.55915	99.10804	0.35571	0	0.3557	38.664	0.6544	0.0039	5	0.7276	2.2104	2.2627	28.73079
7	17.3	0.11	0.75	-0.06	17.3092	0.6355	5	2.47739	101.0749	0.36077	0	0.3608	46.979	0.649	0.0032	5	0.7021	2.1286	2.1952	34.09451
7.1	20.8	0.12	0.75	-0.06	20.8092	0.5767	5	2.38713	102.1607	0.36588	0	0.3659	55.875	0.587	0.0026	5	0.673	2.0436	2.1184	39.48298
7.2	23.9	0.13	0.75	-0.08	23.9092	0.5437	5	2.32165	103.0851	0.37103	0	0.371	63.44	0.5523	0.0023	6	0.6524	1.9812	2.0638	44.07316
7.3	25.4	0.14	0.7	-0.08	25.4086	0.551	5	2.30001	103.7757	0.37622	0	0.3762	66.537	0.5593	0.002	6	0.6469	1.9521	2.0485	46.18206
7.4	26	0.14	0.74	-0.08	26.0091	0.5383	5	2.28656	103.8327	0.38141	0	0.3814	67.192	0.5463	0.0021	6	0.6437	1.9286	2.0393	46.70986
7.5	25.7	0.14	0.68	-0.11	25.7083	0.5446	5	2.29325	103.8043	0.3866	0	0.3866	65.498	0.5529	0.0019	6	0.6474	1.919	2.0483	45.9244
7.6	26	0.14	0.68	-0.12	26.0083	0.5383	5	2.28657	103.8326	0.39179	0	0.3918	65.383	0.5465	0.0019	6	0.6465	1.9008	2.0451	46.01813
7.7	25.4	0.15	0.68	-0.13	25.4083	0.5904	5	2.31269	104.2805	0.39701	0	0.397	63	0.5997	0.002	5	0.6573	1.9048	2.0726	45.02445
7.8	24	0.16	0.68	-0.16	24.0083	0.6664	5	2.35778	104.6145	0.40224	0	0.4022	58.687	0.6778	0.0021	5	0.6748	1.9206	2.1174	42.84709
7.9	22.7	0.16	0.68	-0.16	22.7083	0.7046	5	2.39019	104.4787	0.40746	0	0.4075	54.731	0.7175	0.0022	5	0.6874	1.9271	2.1498	40.61609
8	23.5	0.15	0.68	-0.17	23.5083	0.6381	5	2.35771	104.0909	0.41267	0	0.4127	55.967	0.6495	0.0021	5	0.6772	1.892	2.1222	41.29611
8.1	25	0.15	0.68	-0.19	25.0083	0.5998	5	2.32187	104.2418	0.41788	0	0.4179	58.846	0.61	0.002	5	0.666	1.8566	2.0924	43.14829
8.2	28.7	0.18	0.68	-0.2	28.7083	0.627	5	2.27646	105.9124	0.42317	0	0.4232	66.841	0.6364	0.0017	6	0.6525	1.8185	2.0562	48.61187
8.3	31.1	0.22	0.68	-0.21	31.1083	0.7072	5	2.26948	107.5765	0.42855	0	0.4286	71.589	0.7171	0.0016	6	0.6526	1.8036	2.0554	52.29612
8.4	41.1	0.26	0.45	-0.2	41.1055	0.6325	5	2.13994	109.4785	0.43403	0	0.434	93.707	0.6393	0.0008	6	0.6096	1.7216	1.9422	66.17609
8.5	45.2	0.28	0.51	-0.21	45.2062	0.6194	5	2.09933	110.2527	0.43954	0	0.4395	101.85	0.6255	0.0008	6	0.5972	1.6898	1.9087	71.49311
8.6	49.4	0.3	0.53	-0.2	49.4065	0.6072	6	2.0614	110.9742	0.44509	0	0.4451	110	0.6127	0.0008	6	0.5856	1.6604	1.8775	76.83228
8.7	54.3	0.32	0.53	-0.23	54.3065	0.5893	6	2.0192	111.6771	0.45067	0	0.4507	119.5	0.5942	0.0007	6	0.5724	1.6299	1.8422	82.96101
8.8	60.5	0.34	0.53	-0.24	60.5065	0.5619	6	1.96817	112.3843	0.45629	0	0.4563	131.61	0.5662	0.0006	6	0.5561	1.5964	1.7987	90.59852
8.9	66.3	0.37	0.53	-0.26	66.3065	0.558	6	1.93216	113.2263	0.46195	0	0.462	142.54	0.5619	0.0006	6	0.5451	1.5711	1.7692	97.76987
9	70.2	0.4	0.53	-0.27	70.2065	0.5698	6	1.9153	113.9361	0.46765	0	0.4677	149.13	0.5736	0.0006	6	0.5408	1.5552	1.757	102.4998
9.1	67.2	0.43	0.49	-0.27	67.206	0.6398	6	1.95757	114.3588	0.47337	0	0.4734	140.97	0.6444	0.0005	6	0.5572	1.5654	1.799	98.72827
9.2	61.4	0.43	0.45	-0.28	61.4055	0.7003	6	2.01155	114.1386	0.47907	0	0.4791	127.18	0.7058	0.0005	6	0.5772	1.5799	1.8508	90.97344
9.3	54.9	0.42	0.45	-0.29	54.9055	0.765	5	2.0731	113.6935	0.48476	0	0.4848	112.26	0.7718	0.0006	6	0.5999	1.5972	1.9094	82.14796
9.4	50.5	0.39	0.45	-0.29	50.5055	0.7722	5	2.10604	112.9476	0.49041	0	0.4904	101.99	0.7798	0.0007	6	0.6122	1.6013	1.941	75.69026
9.5	47.3	0.38	0.45	-0.29	47.3055	0.8033	5	2.13924	112.5979	0.49604	0	0.496	94.367	0.8118	0.0007	6	0.625	1.6056	1.9737	71.02799
9.6	45	0.38	0.45	-0.29	45.0055	0.8443	5	2.16905	112.4763	0.50166	0	0.5017	88.713	0.8539	0.0007	6	0.6367	1.6083	2.0036	67.644
9.7	42	0.39	0.4	-0.31	42.0049	0.9285	5	2.21637	112.4981	0.50728	0	0.5073	81.803	0.9398	0.0007	6	0.6548	1.6183	2.0503	63.46705
9.8	39.1	0.39	0.43	-0.31	39.1053	0.9973	5	2.25926	112.3236	0.5129	0	0.5129	75.243	1.0106	0.0008	5	0.6712	1.6259	2.0926	59.3012
9.9	37	0.38	0.45	-0.33	37.0055	1.0269	5	2.28629	111.9989	0.5185	0	0.5185	70.37	1.0415	0.0009	5	0.6819	1.6264	2.1199	56.0849
10	34.8	0.37	0.4	-0.33	34.8049	1.0631	5	2.31683	111.6543	0.52408	0	0.5241	65.411	1.0793	0.0008	5	0.6939	1.6282	2.1506	52.752
10.1	33	0.35	0.38	-0.33	33.0047	1.0605	5	2.33573	111.1181	0.52964	0	0.5296	61.315	1.0778	0.0008	5	0.7016	1.625	2.1701	49.87397
10.2	31.5	0.32	0.38	-0.34	31.5047	1.0157	5	2.34299	110.349	0.53516	0	0.5352	57.87	1.0333	0.0009	5	0.705	1.617	2.1783	47.32674
10.3	30	0.3	0.38	-0.35	30.0047	0.9998	5	2.35752	109.7578	0.54064	0	0.5406	54.498	1.0182	0.0009	5	0.7111	1.612	2.1937	44.88796
10.4	28.8	0.29	0.38	-0.35	28.8047	1.0068	5	2.37425	109.4102	0.54611	0	0.5461	51.745	1.0262	0.001	5	0.7182	1.608	2.2115	42.94485
10.5	27.6	0.27	0.38	-0.36	27.6047	0.9781	5	2.38371	108.7835	0.55155	0	0.5516	49.049	0.998	0.001	5	0.7225	1.6011	2.2222	40.93648
10.6	26.4	0.26	0.38	-0.36	26.4047	0.9847	5	2.40183	108.399	0.55697	0	0.557	46.407	1.0059	0.0011	5	0.7301	1.5976	2.2414	39.02688
10.7	25.4	0.26	0.38	-0.36	25.4047	1.0234	5	2.42478	108.3048	0.56239	0	0.5624	44.173	1.0466	0.0011	5	0.7396	1.5959	2.2656	37.46921
10.8	24.7	0.26	0.38	-0.38	24.7047	1.0524	5	2.44139	108.2367	0.5678	0	0.5678	42.509	1.0772	0.0011	5	0.7468	1.5918	2.2839	36.31126
10.9	23.8	0.28	0.35	-0.39	23.8043	1.1763	5	2.48008	108.6884	0.57324	0	0.5732	40.526	1.2053	0.0011	5	0.7623	1.5956	2.3239	35.03252
11	22.8	0.26	0.28	-0.38	22.8034	1.1402	5	2.48906	108.0414	0.57864	0	0.5786	38.409	1.1699	0.0009	5	0.7666	1.5883	2.3343	33.36157
11.1	22.6	0.25	0.25	-0.37	22.6031	1.106	5	2.48561	107.7329	0.58402	0	0.584	37.702	1.1354	0.0008	5	0.7664	1.5769	2.3332	32.81532
11.2	23.1	0.23	0.38	-0.4	23.1047	0.9955	5	2.45439	107.1763	0.58938	0	0.5894	38.201	1.0215	0.0012	5	0.7559	1.5564	2.3051	33.11733
11.3	23.8	0.22	0.4	-0.4	23.8049	0.9242	5	2.42721	106.9239	0.59473	0	0.5947	39.026	0.9479	0.0012	5	0.7471	1.5379	2.2811	33.73397
11.4	23.1	0.19	0.37	-0.41	23.1045	0.8224	5	2.41429	105.7783	0.60002	0	0.6	37.506	0.8443	0.0012	5	0.7431	1.5243	2.27	32.41957
11.5	25	0.15	0.3	-0.43	25.0037	0.5999	5	2.32198	104.2413	0.60523	0	0.6052	40.313	0.6148	0.0009	5	0.7098	1.4866	2.1821	34.27986
11.6	26.4	0.15	0.3	-0.41	26.4037	0.5681	5	2.29048	104.3742	0.61045	0	0.6105	42.253	0.5816	0.0008	5	0.6994	1.4692	2.1541	35.81363
11.7	28.6	0.18	0.3	-0.42	28.6037	0.6293	5	2.27858	105.9035	0.61574	0	0.6157	45.454	0.6431	0.0008	5	0.6966	1.4581	2.1462	38.5689
11.8	29.9	0.21	0.3	-0.43	29.9037	0.7023	5	2.2832	107.1398	0.6211	0	0.6211	47.146	0.7172	0.0007	5	0.6998	1.4518	2.1538	40.1784
11.9	31.2	0.23	0.25	-0.43	31.2031	0.7371	5	2.27685	107.9092	0.6265	0	0.6265	48.806	0.7522	0.0006	5	0.6988	1.4423	2.1505	41.67909
12	32.8	0.25	0.23	-0.44	32.8028	0.7621	5	2.26482	108.6412	0.63193	0	0.6319	50.909	0.7771	0.0005	5	0.6957	1.4314	2.1417	43.51903
12.1	35.2	0.27	0.23	-0.45	35.2028	0.767	5	2.23944	109.3766	0.6374	0	0.6374	54.229	0.7811	0.0005	5	0.6877	1.417	2.12	46.29053
12.2	38.8	0.3	0.23	-0.45	38.8028	0.7731	5	2.2045	110.385	0.64292	0	0.6429	59.354	0.7862	0.0004	5	0.6763	1.4007	2.0893	50.51377
12.3	43.3	0.33	0.23	-0.45	43.3028	0.7621	5	2.16023	111.35	0.64848	0	0.6485	65.775	0.7737	0.0004	6	0.6614	1.3824	2.0496	55.7278
12.4	46.1	0.39	0.23	-0.45	46.1028	0.8459	5	2.16061	112.7251	0.65412	0	0.6541	69.481	0.8581	0.0004	6	0.6631	1.3756	2.0532	59.08664
12.5	46	0.45	0.23	-0.45	46.0028	0.9782	5	2.19555	113.7669	0.65981	0	0.6598	68.721	0.9924	0.0004	5	0.6773	1.377	2.0898	59.00708
12.6	44.5	0.5	0.18	-0.45	44.5022	1.1235	5	2.24113	114.4569	0.66553	0	0.6655	65.867	1.1406	0.0003	5	0.6954	1.3804	2.1364	57.19062
12.7	43.8	0.53	0.1	-0.45	43.8012	1.21	5	2.26518	114.8445	0.67127	0	0.6713	64.251	1.2288	0.0002	5	0.7054	1.3785	2.162	56.18944
12.8	45.2	0.56	0.02	-0.46	45.2002	1.2389	5	2.25997	115.3241	0.67704	0	0.677	65.762	1.2578	3E-05	5	0.7047	1.3698	2.1594	57.6371
12.9	47.3	0.57	0.06	-0.47	47.3007	1.2051	5	2.23692	115.5644	0.68282	0	0.6828	68.273	1.2227	9E-05	5	0.6973	1.3572	2.1393	59.79443
13	49.5	0.56	0.08	-0.47	49.501	1.1313	5	2.20492	115.5458	0.6886	0	0.6886	70.887	1.1473	0.0001	5	0.6865	1.343	2.1102	61.9543
13.1	51.7	0.55	0.08	-0.47	51.701	1.0638	5	2.17411	115.52	0.69437	0	0.6944	73.457	1.0783	0.0001	5	0.6761	1.3295	2.0822	64.08809
13.2	53.8	0.56	0.08	-0.48	53.801	1.0409	5	2.15451	115.7489	0.70016	0	0.7002	75.841	1.0546	0.0001	5	0.6699	1.3187	2.0653	66.17708
13.3	55.9	0.58	0.08	-0.47	55.901	1.0376	5	2.14012	116.0991	0.70596	0	0.706	78.184	1.0508	0.0001	5	0.6657	1.3092	2.0535	68.29056
13.4	58.5	0.6	0.08	-0.49	58.501	1.0256	5	2.12111	116.458	0.71179	0	0.7118	81.189	1.0383	0.0001	6	0.6597	1.299	2.0371	70.94294
13.5	60.7	0.62	0.08	-0.49	60.701	1.0214	5	2.10703	116.788	0.71763	0	0.7176	83.586	1.0336	0.0001	6	0.6556	1.2899	2.0255	73.12284
13.6	62.4	0.63	0.08	-0.5	62.401	1.0096	5	2.09435	116.9724	0.72347	0	0.7235	85.252	1.0214	9E-05	6	0.6519	1.2813	2.0151	74.68428
13.7	63.5	0.64	0.08	-0.52	63.501	1.0079	5	2.08776	117.1303	0.72933	0	0.7293	86.067	1.0196	9E-05	6	0.6505	1.2738	2.0106	75.56991
13.8	64.5	0.63	0.08	-0.53	64.501	0.9767	5	2.07428	117.0532	0.73518	0	0.7352	86.734	0.988	9E-05	6	0.6464	1.2654	1.9991	76.25537
13.9	65.2	0.62	0	-0.53	65.2	0.9509	5	2.06371	116.9624	0.74103	0	0.741	86.985	0.9619	0	6	0.6434	1.2575	1.9905	76.60815

14	66.7	0.59	0	-0.54	66.7	0.8846	6	2.03752	116.655	0.74686	0	0.7469	88.307	0.8946	0	6	0.6345	1.2474	1.9664	77.74867
14.1	69	0.56	0	-0.55	69	0.8116	6	2.00417	116.3558	0.75268	0	0.7527	90.672	0.8206	0	6	0.6229	1.2364	1.9354	79.74366
14.2	71.1	0.6	0.07	-0.55	71.1009	0.8439	6	2.00306	116.9338	0.75853	0	0.7585	92.735	0.853	7E-05	6	0.6236	1.2307	1.9364	81.81383
14.3	72	0.61	0.08	-0.56	72.001	0.8472	6	1.99957	117.0854	0.76438	0	0.7644	93.195	0.8563	8E-05	6	0.6232	1.2246	1.9347	82.44792
14.4	73.1	0.6	-0.07	-0.59	73.0991	0.8208	6	1.98631	117.0014	0.77023	0	0.7702	93.905	0.8295	-7E-05	6	0.6191	1.2173	1.9233	83.20791
14.5	75.9	0.59	-0.08	-0.59	75.899	0.7774	6	1.95944	116.9701	0.77608	0	0.7761	96.798	0.7854	-8E-05	6	0.61	1.2082	1.8986	85.77549
14.6	73	0.59	-0.08	-0.61	72.999	0.8082	6	1.98298	116.8751	0.78193	0	0.7819	92.358	0.817	-8E-05	6	0.6196	1.2061	1.9231	82.32032
14.7	67.9	0.6	-0.08	-0.61	67.899	0.8837	6	2.03093	116.8214	0.78777	0	0.7878	85.192	0.894	-9E-05	6	0.6384	1.2073	1.9716	76.57084
14.8	63	0.63	-0.08	-0.61	62.999	1	5	2.08857	116.9957	0.79362	0	0.7936	78.382	1.0128	-9E-05	6	0.6609	1.2094	2.0299	71.09704
14.9	55.6	0.65	-0.14	-0.63	55.5983	1.1691	5	2.17237	116.9196	0.79946	0	0.7995	68.545	1.1862	-2E-04	5	0.6931	1.2144	2.1138	62.89524
15	45.6	0.67	-0.08	-0.64	45.599	1.4693	5	2.30075	116.6578	0.8053	0	0.8053	55.624	1.4958	-1E-04	5	0.7426	1.2248	2.242	51.84887
15.1	39	0.7	-0.09	-0.64	38.9989	1.7949	5	2.4075	116.5969	0.81113	0	0.8111	47.08	1.8331	-2E-04	5	0.7837	1.2316	2.3495	44.44981
15.2	35.7	0.73	-0.17	-0.64	35.6979	2.0449	5	2.47263	116.6883	0.81696	0	0.817	42.696	2.0928	-4E-04	5	0.8093	1.2329	2.4161	40.64154
15.3	31.4	0.75	-0.25	-0.64	31.3969	2.3888	4	2.55827	116.5729	0.82279	0	0.8228	37.159	2.4531	-6E-04	4	0.8428	1.2361	2.5033	35.71849
15.4	27.6	0.74	-0.41	-0.64	27.595	2.6817	4	2.63342	116.1599	0.8286	0	0.8286	32.303	2.7647	-0.001	4	0.8725	1.2378	2.5805	31.31136
15.5	24.4	0.69	-0.6	-0.64	24.3927	2.8287	4	2.68976	115.3471	0.83436	0	0.8344	28.235	2.9289	-0.002	4	0.8951	1.237	2.6393	27.54013
15.6	22.5	0.62	-0.58	-0.63	22.4929	2.7564	4	2.71053	114.3667	0.84008	0	0.8401	25.775	2.8634	-0.002	4	0.9043	1.232	2.6627	25.21166
15.7	23.3	0.55	-0.5	-0.65	23.2939	2.3611	4	2.6577	113.5754	0.84576	0	0.8458	26.542	2.4501	-0.002	4	0.8852	1.2193	2.6118	25.86795
15.8	25.7	0.47	-0.35	-0.66	25.6957	1.8291	4	2.5579	112.6646	0.85139	0	0.8514	29.181	1.8918	-0.001	4	0.848	1.2024	2.5136	28.23257
15.9	27.8	0.4	-0.19	-0.64	27.7977	1.439	5	2.47056	111.6764	0.85698	0	0.857	31.437	1.4847	-5E-04	5	0.8157	1.1876	2.4279	30.2386
16	28.7	0.36	-0.15	-0.66	28.6982	1.2544	5	2.42618	110.9833	0.86253	0	0.8625	32.272	1.2933	-4E-04	5	0.7997	1.1776	2.3853	30.9779
16.1	28.9	0.36	-0.15	-0.66	28.8982	1.2458	5	2.42201	111.0002	0.86808	0	0.8681	32.29	1.2843	-4E-04	5	0.7991	1.1714	2.383	31.03087
16.2	28.6	0.36	-0.15	-0.66	28.5982	1.2588	5	2.42828	110.9747	0.87363	0	0.8736	31.735	1.2985	-4E-04	5	0.8025	1.1662	2.3912	30.5565
16.3	28.3	0.35	-0.15	-0.66	28.2982	1.2368	5	2.42798	110.7429	0.87916	0	0.8792	31.188	1.2765	-4E-04	5	0.8034	1.1605	2.3929	30.07182
16.4	27.5	0.35	-0.15	-0.66	27.4982	1.2728	5	2.44519	110.6729	0.8847	0	0.8847	30.082	1.3151	-4E-04	5	0.811	1.1562	2.4121	29.08111
16.5	26	0.38	-0.15	-0.66	25.9982	1.4616	5	2.49849	111.1379	0.89025	0	0.8903	28.203	1.5135	-4E-04	5	0.8324	1.1546	2.4678	27.39831
16.6	24.1	0.43	-0.15	-0.68	24.0982	1.7844	4	2.57451	111.8573	0.89585	0	0.8959	25.9	1.8533	-5E-04	4	0.8626	1.1544	2.5466	25.31436
16.7	20.6	0.46	-0.21	-0.67	20.5974	2.2333	4	2.68647	111.9679	0.90145	0	0.9015	21.849	2.3355	-8E-04	4	0.9071	1.1565	2.6627	21.52657
16.8	16.6	0.44	-0.23	-0.68	16.5972	2.6511	4	2.80609	111.116	0.907	0	0.907	17.299	2.8043	-0.001	4	0.9554	1.1586	2.7887	17.1804
16.9	13.8	0.41	-0.1	-0.68	13.7988	2.9713	3	2.90011	110.1489	0.91251	0	0.9125	14.122	3.1817	-6E-04	3	0.9941	1.1586	2.89	14.10948
17	13.6	0.35	0.04	-0.68	13.6005	2.5734	4	2.86928	108.9559	0.91796	0	0.918	13.816	2.7597	0.0002	3	0.9838	1.15	2.8619	13.7842
17.1	14.7	0.28	-0.05	-0.68	14.6994	1.9048	4	2.76868	107.5126	0.92333	0	0.9233	14.92	2.0325	-3E-04	4	0.9455	1.1375	2.7609	14.80965
17.2	14.7	0.27	-0.49	-0.68	14.694	1.8375	4	2.76037	107.2456	0.92869	0	0.9287	14.822	1.9615	-0.003	4	0.9435	1.131	2.7547	14.71327
17.3	13.9	0.28	0.12	-0.68	13.9015	2.0142	4	2.80219	107.3765	0.93406	0	0.9341	13.883	2.1593	0.0007	4	0.9612	1.1273	2.8005	13.81572
17.4	14	0.27	0	-0.7	14	1.9286	4	2.7894	107.1276	0.93942	0	0.9394	13.903	2.0673	0	4	0.9573	1.1206	2.7897	13.83231
17.5	13.3	0.27	2.08	-0.68	13.3255	2.0262	4	2.81903	107.0072	0.94477	0	0.9448	13.104	2.1808	0.0121	4	0.9703	1.1162	2.8233	13.06045
17.6	14.1	0.27	3.68	-0.7	14.145	1.9088	4	2.78321	107.1528	0.95013	0	0.9501	13.888	2.0462	0.0201	4	0.9569	1.1085	2.7875	13.82328
17.7	14.9	0.27	3.61	-0.69	14.9442	1.8067	4	2.75025	107.2868	0.95549	0	0.9555	14.64	1.9301	0.0186	4	0.9447	1.1012	2.7547	14.55798
17.8	15.1	0.3	3.66	-0.7	15.1448	1.9809	4	2.76707	108.0903	0.9609	0	0.9609	14.761	2.1151	0.0186	4	0.9521	1.0961	2.7733	14.69307
17.9	16.2	0.38	4.35	-0.68	16.2532	2.338	4	2.78194	109.9922	0.9664	0	0.9664	15.818	2.4858	0.0205	4	0.958	1.0907	2.7882	15.75825
18	19.2	0.45	3.42	-0.68	19.2419	2.3387	4	2.72216	111.641	0.97198	0	0.972	18.797	2.4631	0.0135	4	0.9344	1.0826	2.7257	18.69227
18.1	19.6	0.48	0.72	-0.68	19.6088	2.4479	4	2.72715	112.1593	0.97759	0	0.9776	19.058	2.5763	0.0028	4	0.9372	1.077	2.7323	18.96391
18.2	18.4	0.51	1.23	-0.68	18.4151	2.7695	4	2.78093	112.4497	0.98321	0	0.9832	17.73	2.9257	0.0051	4	0.9594	1.073	2.7899	17.67679
18.3	19.4	0.53	2.43	-0.68	19.4297	2.7278	4	2.75834	112.862	0.98885	0	0.9889	18.649	2.8741	0.0095	4	0.9513	1.0665	2.7678	18.58738
18.4	23.7	0.49	2.41	-0.69	23.7295	2.0649	4	2.6167	112.7754	0.99449	0	0.9945	22.861	2.1553	0.0076	4	0.8964	1.0572	2.6232	22.71463
18.5	33	0.47	0.91	-0.7	33.0111	1.4238	5	2.40632	113.2757	1.00015	0	1.0002	32.006	1.4683	0.0021	5	0.815	1.047	2.4086	31.67417
18.6	47	0.55	-1.13	-0.7	46.9862	1.1706	5	2.23197	115.2868	1.00592	0	1.0059	45.71	1.1962	-0.002	5	0.7478	1.0386	2.2317	45.13037
18.7	54	0.73	-0.78	-0.71	53.9905	1.3521	5	2.2205	117.6973	1.0118	0	1.0118	52.361	1.3779	-0.001	5	0.7439	1.0339	2.2206	51.76391
18.8	49.5	1.02	-0.71	-0.72	49.4913	2.061	5	2.36503	119.9327	1.0178	0	1.0178	47.626	2.1042	-0.001	5	0.8001	1.0316	2.3675	47.25749
18.9	38.2	1.15	-0.75	-0.71	38.1908	3.0112	4	2.55805	120.1783	1.02381	0	1.0238	36.303	3.0941	-0.001	4	0.8758	1.0293	2.5654	36.1544
19	28.5	1.05	-0.71	-0.72	28.4913	3.6853	4	2.71152	118.798	1.02975	0	1.0298	26.668	3.8235	-0.002	4	0.9372	1.0258	2.7258	26.62275
19.1	23	1.01	-0.68	-0.74	22.9917	4.3929	3	2.83185	117.9907	1.03565	0	1.0357	21.2	4.6001	-0.002	3	0.986	1.0214	2.8532	21.19391
19.2	22.6	1.06	-0.71	-0.75	22.5913	4.6921	3	2.85646	118.3014	1.04156	0	1.0416	20.69	4.9189	-0.002	3	0.9966	1.0158	2.8803	20.68871
19.3	24.9	0.96	-1.16	-0.76	24.8858	3.8576	4	2.7689	117.8123	1.04745	0	1.0475	22.758	4.0271	-0.004	3	0.9633	1.0098	2.792	22.74992
19.4	21.5	0.77	-1.96	-0.77	21.476	3.5854	4	2.79745	115.8392	1.05325	0	1.0533	19.39	3.7703	-0.007	3	0.9767	1.0045	2.8267	19.38824
19.5	15.7	0.62	-1.5	-0.78	15.6816	3.9537	3	2.93045	113.4869	1.05892	0	1.0589	13.809	4.24	-0.007	3	1	0.9992	2.9734	13.80909
19.6	13.5	0.51	-1.05	-0.79	13.4872	3.7814	3	2.97034	111.6901	1.0645	0	1.0645	11.67	4.1054	-0.006	3	1	0.994	3.0225	11.66988
19.7	13.3	0.43	-1	-0.79	13.2878	3.2361	3	2.93513	110.4053	1.07002	0	1.07	11.418	3.5195	-0.006	3	1	0.9889	2.99	11.41818
19.8	12.5	0.35	-0.92	-0.8	12.4887	2.8025	3	2.92082	108.7479	1.07546	0	1.0755	10.612	3.0666	-0.006	3	1	0.9839	2.9811	10.61244
19.9	13.8	0.38	-0.68	-0.81	13.7917	2.7553	3	2.88128	109.5916	1.08094	0	1.0809	11.759	2.9896	-0.004	3	1	0.9789	2.9383	11.75895
20	17.2	0.42	-0.43	-0.82	17.1947	2.4426	4	2.77288	110.8618	1.08648	0	1.0865	14.826	2.6074	-0.002	4	0.9764	0.9745	2.8216	14.83531
20.1	18	0.42	-1.2	-0.82	17.9853	2.3352	4	2.74566	110.9715	1.09203	0	1.092	15.47	2.4862	-0.005	4	0.9663	0.97	2.7944	15.48604
20.2	16.7	0.43	-2.2	-0.8	16.6731	2.579	4	2.79749	110.9589	1.09758	0	1.0976	14.191	2.7608	-0.01	4	0.9883	0.9645	2.8515	14.19682
20.3	14.6	0.43	-2.26	-0.82	14.5723	2.9508	3	2.87914	110.6304	1.10311	0	1.1031	12.21	3.1925	-0.012	3	1	0.9592	2.9415	12.2102
20.4	13.6	0.41	-0.94	-0.82	13.5885	3.0173	3	2.90942	110.1114	1.10862	0	1.1086	11.257	3.2853	-0.005	3	1	0.9544	2.9774	11.25714
20.5	13.7	0.36	-0.65	-0.82	13.692	2.6293	3	2.8722	109.1784	1.11408	0	1.1141	11.29	2.8622	-0.004	3	1	0.9498	2.9419	11.29003
20.6	14	0.32	-0.6	-0.82	13.9927	2.2869	4	2.83021	108.3695	1.1195	0	1.1195	11.499	2.4858	-0.003	3	1	0.9452	2.9008	11.49907
20.7	14.6	0.34	-0.56	-0.82	14.5932	2.3299	4	2.81963	108.9156	1.12494	0	1.1249	11.972	2.5245	-0.003	3	1	0.9406	2.89	11.97236
20.8	15.6	0.37	-0.48	-0.82	15.5941	2.3727	4	2.80036	109.6961	1.13043	0	1.1304	12.795	2.5581	-0.002	4	0.9967	0.9362	2.8694	12.79772
20.9	16.4	0.41	-0.66	-0.82	16.3919	2.5012	4	2.79578	110.5689	1.13595	0	1.136	13.43	2.6875	-0.003	4	0.995	0.9318	2.8643	13.43483
21	17.1	0.42	-0.52	-0.82	17.0936	2.4571	4	2.77646	110.8475	1.1415	0	1.1415	13.975	2.6329	-0.002	4	0.9878	0.9278	2.8449	13.98766

21.1	18.7	0.5	-0.19	-0.83	18.6977	2.6741	4	2.76655	112.342	1.14711	0	1.1471	15.3	2.8489	-8E-04	4	0.9835	0.9236	2.8328	15.32016
21.2	23.2	0.61	-0.18	-0.83	23.1978	2.6296	4	2.68742	114.3229	1.15283	0	1.1528	19.122	2.7671	-6E-04	4	0.9509	0.9217	2.7466	19.2031
21.3	32.2	0.68	-1	-0.83	32.1878	2.1126	4	2.51674	115.9167	1.15863	0	1.1586	26.781	2.1915	-0.002	4	0.8827	0.923	2.5666	27.06771
21.4	46.6	0.69	-1.87	-0.84	46.5771	1.4814	5	2.29555	116.9247	1.16447	0	1.1645	38.998	1.5194	-0.003	5	0.7956	0.9266	2.3374	39.76954
21.5	58.7	0.72	-3.32	-0.84	58.6594	1.2274	5	2.16638	117.7987	1.17036	0	1.1704	49.121	1.2524	-0.004	5	0.7454	0.9276	2.2047	50.39827
21.6	66	0.71	-5.98	-0.84	65.9268	1.077	5	2.0917	117.9812	1.17626	0	1.1763	55.048	1.0965	-0.007	5	0.7168	0.9269	2.1291	56.72283
21.7	67.5	0.8	-7.35	-0.84	67.41	1.1868	5	2.10957	118.9087	1.18221	0	1.1822	56.021	1.208	-0.008	5	0.7243	0.9228	2.148	57.75975
21.8	61	1.06	-7.8	-0.85	60.9045	1.7404	5	2.24882	120.7203	1.18824	0	1.1882	50.256	1.7751	-0.009	5	0.779	0.9136	2.2909	51.56082
21.9	54.4	1.34	-5.64	-0.88	54.331	2.4664	5	2.38632	122.1568	1.19435	0	1.1944	44.49	2.5218	-0.008	5	0.8332	0.904	2.4325	45.39772
22	50.4	1.35	-5.34	-0.86	50.3346	2.6821	5	2.43538	122.0249	1.20045	0	1.2005	40.93	2.7476	-0.008	4	0.8535	0.8979	2.4848	41.6937
22.1	39	1.25	-6.32	-0.88	38.9226	3.2115	4	2.5706	120.8347	1.20649	0	1.2065	31.261	3.3142	-0.012	4	0.9085	0.8876	2.6285	31.63864
22.2	30.8	1.26	-6.35	-0.86	30.7223	4.1013	4	2.71808	120.3159	1.21251	0	1.2125	24.338	4.2698	-0.015	3	0.9685	0.8764	2.7853	24.44234
22.3	36.5	1.39	-7	-0.88	36.4143	3.8172	4	2.64268	121.449	1.21858	0	1.2186	28.883	3.9493	-0.014	4	0.9386	0.8759	2.706	29.13416
22.4	45.5	1.53	-8.23	-0.86	45.3993	3.3701	4	2.53586	122.689	1.22472	0	1.2247	36.069	3.4635	-0.013	4	0.8963	0.8772	2.5942	36.62037
22.5	43.3	1.51	-10.28	-0.86	43.1742	3.4975	4	2.56278	122.4702	1.23084	0	1.2308	34.077	3.6001	-0.018	4	0.908	0.8717	2.6241	34.55449
22.6	36.4	1.47	-11.37	-0.88	36.2608	4.054	4	2.6619	121.8481	1.23693	0	1.2369	28.315	4.1971	-0.023	4	0.9487	0.8623	2.7303	28.54275
22.7	28.7	1.4	-11.99	-0.88	28.5532	4.9031	3	2.79409	120.9083	1.24298	0	1.243	21.972	5.1263	-0.032	3	1	0.8513	2.8728	21.97164
22.8	24.1	1.04	-12.08	-0.88	23.9521	4.342	3	2.81514	118.3047	1.24889	0	1.2489	18.179	4.5808	-0.038	3	1	0.8472	2.9024	18.1787
22.9	23.7	0.97	-12.01	-0.88	23.553	4.1184	3	2.80556	117.7539	1.25478	0	1.2548	17.771	4.3501	-0.039	3	1	0.8433	2.8955	17.77061
23	25.5	0.9	-11.93	-0.88	25.354	3.5497	4	2.73929	117.3856	1.26065	0	1.2607	19.112	3.7355	-0.036	3	0.9871	0.8412	2.8282	19.15501
23.1	27.3	0.69	-9.53	-0.89	27.1834	2.5383	4	2.62368	115.6113	1.26643	0	1.2664	20.465	2.6624	-0.026	4	0.9427	0.8442	2.7109	20.67629
23.2	23.5	0.74	-4.81	-0.88	23.4411	3.1568	4	2.73305	115.762	1.27222	0	1.2722	17.425	3.338	-0.016	3	0.988	0.8336	2.829	17.46409
23.3	22.6	0.83	-3.87	-0.9	22.5526	3.6803	4	2.78831	116.5075	1.27804	0	1.278	16.646	3.9014	-0.013	3	1	0.8279	2.8874	16.64621
23.4	30.7	0.92	-5.29	-0.9	30.6353	3.0031	4	2.62965	118.0079	1.28394	0	1.2839	22.86	3.1344	-0.013	4	0.9459	0.8328	2.717	23.10088
23.5	31.1	0.95	-6.5	-0.91	31.0204	3.0625	4	2.63101	118.2731	1.28986	0	1.2899	23.05	3.1954	-0.016	4	0.9471	0.829	2.7195	23.29218
23.6	32	0.94	-7.58	-0.92	31.9072	2.946	4	2.61078	118.2645	1.29577	0	1.2958	23.624	3.0708	-0.018	4	0.9399	0.8266	2.6997	23.91375
23.7	37.6	0.91	-8.77	-0.94	37.4927	2.4271	4	2.50299	118.4206	1.30169	0	1.3017	27.803	2.5144	-0.017	4	0.8972	0.8304	2.587	28.40127
23.8	46.7	0.94	-9.75	-0.92	46.5807	2.018	5	2.37925	119.1873	1.30765	0	1.3077	34.622	2.0763	-0.016	5	0.848	0.8356	2.457	35.75389
23.9	55.1	1.02	-10.17	-0.94	54.9755	1.8554	5	2.3007	120.189	1.31366	0	1.3137	40.849	1.9008	-0.014	5	0.8169	0.838	2.3745	42.49958
24	55.8	1.08	-10.43	-0.94	55.6723	1.9399	5	2.30912	120.638	1.31969	0	1.3197	41.186	1.987	-0.014	5	0.8208	0.8342	2.384	42.84901
24.1	55.4	1.1	-11.05	-0.92	55.2648	1.9904	5	2.31883	120.7543	1.32573	0	1.3257	40.686	2.0393	-0.015	5	0.8254	0.8302	2.3953	42.31986
24.2	56.6	1.13	-11.45	-0.9	56.4599	2.0014	5	2.31339	121.0034	1.33178	0	1.3318	41.394	2.0498	-0.015	5	0.8239	0.8274	2.3906	43.10547
24.3	60.6	0.93	-11.61	-0.86	60.4579	1.5383	5	2.21684	119.745	1.33777	0	1.3378	44.193	1.5731	-0.014	5	0.787	0.8315	2.293	46.45632
24.4	79.8	0.86	-12.06	-0.84	79.6524	1.0797	6	2.02718	119.8449	1.34376	0	1.3438	58.276	1.0982	-0.011	5	0.7124	0.8435	2.0962	62.42195
24.5	107.6	0.76	-12.02	-0.86	107.453	0.7073	6	1.81254	119.6706	1.34974	0	1.3497	78.61	0.7163	-0.008	6	0.6279	0.8583	1.8742	86.06368
24.6	128.7	0.52	-11.49	-0.88	128.559	0.4045	6	1.61343	117.3313	1.35561	0	1.3556	93.835	0.4088	-0.007	6	0.5507	0.8725	1.6709	104.8851
24.7	143.6	0.52	-11.41	-0.88	143.46	0.3625	6	1.54821	117.5988	1.36149	0	1.3615	104.37	0.3659	-0.006	6	0.5254	0.8759	1.6038	117.6348
24.8	153	0.63	-11.73	-0.88	152.856	0.4122	6	1.55373	119.1576	1.36745	0	1.3675	110.78	0.4159	-0.006	6	0.5277	0.8734	1.609	125.0491
24.9	153.3	0.74	-9.58	-0.86	153.183	0.4831	6	1.59109	120.3403	1.37347	0	1.3735	110.53	0.4875	-0.005	6	0.5426	0.868	1.6475	124.5367
25	143.8	0.82	-5.24	-0.81	143.736	0.5705	6	1.65546	120.9362	1.37951	0	1.3795	103.19	0.576	-0.003	6	0.5685	0.86	1.7146	115.7074
25.1	155.7	0.77	-7.35	-0.79	155.61	0.4948	6	1.59145	120.6694	1.38555	0	1.3856	111.31	0.4993	-0.003	6	0.5439	0.8636	1.6494	125.8743
25.2	146.7	0.71	-7.88	-0.78	146.604	0.4843	6	1.60743	119.9304	1.39154	0	1.3915	104.35	0.4889	-0.004	6	0.5512	0.8599	1.6678	118.0045
25.3	125.6	0.73	-8.34	-0.76	125.498	0.5817	6	1.70825	119.7546	1.39753	0	1.3975	88.8	0.5882	-0.005	6	0.5919	0.8482	1.7739	99.47636
25.4	106	0.79	-8.86	-0.74	105.892	0.7461	6	1.83141	119.9182	1.40353	0	1.4035	74.447	0.7561	-0.006	6	0.6415	0.8343	1.9032	82.38236
25.5	90	0.83	-8.96	-0.76	89.8903	0.9234	6	1.94402	119.88	1.40952	0	1.4095	62.774	0.9381	-0.007	6	0.687	0.8212	2.0221	68.6679
25.6	72.9	0.86	-8.94	-0.76	72.7906	1.1815	5	2.08213	119.6252	1.4155	0	1.4155	50.424	1.2049	-0.009	5	0.7435	0.8055	2.1685	54.33221
25.7	61	0.85	-8.74	-0.74	60.893	1.3959	5	2.18787	119.1043	1.42146	0	1.4215	41.838	1.4293	-0.011	5	0.7869	0.7927	2.282	44.55483
25.8	55.9	0.81	-8.83	-0.73	55.7919	1.4518	5	2.22824	118.5383	1.42738	0	1.4274	38.087	1.4899	-0.012	5	0.8043	0.786	2.3269	40.38473
25.9	53.9	0.73	-10.02	-0.72	53.7774	1.3575	5	2.22291	117.6877	1.43327	0	1.4333	36.521	1.3946	-0.014	5	0.8036	0.7836	2.3242	38.76403
26	57.1	0.62	-11.3	-0.72	56.9617	1.0885	5	2.14558	116.6329	1.4391	0	1.4391	38.581	1.1167	-0.015	5	0.774	0.7882	2.2456	41.35877
26.1	72.2	0.48	-11.92	-0.72	72.0541	0.6662	6	1.94124	115.3335	1.44487	0	1.4449	48.869	0.6798	-0.012	6	0.6929	0.8059	2.033	53.7759
26.2	103	0.46	-12.14	-0.71	102.851	0.4473	6	1.71905	115.8901	1.45066	0	1.4507	69.9	0.4537	-0.009	6	0.6041	0.8264	1.7993	79.19985
26.3	139.3	0.51	-12.2	-0.7	139.151	0.3665	6	1.56209	117.3823	1.45653	0	1.4565	94.536	0.3704	-0.006	6	0.5413	0.8412	1.6337	109.4604
26.4	175.2	0.65	-12.04	-0.68	175.053	0.3713	6	1.47973	119.717	1.46252	0	1.4625	118.69	0.3745	-0.005	6	0.508	0.8484	1.5456	139.1815
26.5	200.6	0.79	-12.06	-0.66	200.452	0.3941	6	1.44476	121.4747	1.46859	0	1.4686	135.49	0.397	-0.004	6	0.4939	0.8505	1.5077	159.9456
26.6	218.8	0.9	-12.21	-0.65	218.651	0.4116	6	1.42474	122.6405	1.47472	0	1.4747	147.27	0.4144	-0.004	6	0.486	0.851	1.4862	174.6684
26.7	230.6	0.97	-12.32	-0.64	230.449	0.4209	6	1.41209	123.3167	1.48089	0	1.4809	154.62	0.4236	-0.004	6	0.4812	0.8507	1.4729	184.0746
26.8	233.3	1.08	-12.39	-0.63	233.148	0.4632	6	1.43336	124.1311	1.48709	0	1.4871	155.78	0.4662	-0.004	6	0.4899	0.8464	1.4948	185.3187
26.9	232.9	1.18	-12.42	-0.62	232.748	0.507	6	1.45849	124.7749	1.49333	0	1.4933	154.86	0.5103	-0.004	6	0.5001	0.8417	1.521	183.9628
27	232.6	1.29	-12.51	-0.62	232.447	0.555	6	1.48414	125.4238	1.4996	0	1.4996	154.01	0.5586	-0.004	6	0.5106	0.8369	1.5477	182.6662
27.1	232	1.37	-12.66	-0.62	231.845	0.5909	6	1.50283	125.8578	1.5059	0	1.5059	152.96	0.5948	-0.004	6	0.5184	0.8328	1.5674	181.2959
27.2	230.6	1.4	-12.72	-0.64	230.444	0.6075	6	1.51277	126.0015	1.5122	0	1.5122	151.39	0.6115	-0.004	6	0.5229	0.8297	1.5784	179.5111
27.3	230.6	1.5	-12.72	-0.64	230.444	0.6509	6	1.53281	126.5063	1.51852	0	1.5185	150.76	0.6552	-0.004	6	0.5312	0.8254	1.5994	178.5785
27.4	229.1	1.68	-12.72	-0.64	228.944	0.7338	6	1.57043	127.3196	1.52489	0	1.5249	149.14	0.7387	-0.004	6	0.5463	0.819	1.6383	176.0347
27.5	219.7	1.66	-12.76	-0.64	219.544	0.7561	6	1.59258	127.1297	1.53124	0	1.5312	142.38	0.7614	-0.004	6	0.5559	0.8143	1.6626	167.7756
27.6	209.4	1.64	-12.8	-0.65	209.243	0.7838	6	1.61846	126.9238	1.53759	0	1.5376	135.09	0.7896	-0.004	6	0.5669	0.8091	1.6909	158.8175
27.7	204.9	1.75	-12.8	-0.66	204.743	0.8547	6	1.65135	127.3458	1.54396	0	1.544	131.61	0.8612	-0.005	6	0.5804	0.8031	1.7255	154.2202
27.8	204.7	1.89	-12.77	-0.67	204.544	0.924	6	1.67543	127.9066	1.55035	0	1.5504	130.93	0.9311	-0.005	6	0.5903	0.7981	1.7507	153.1157
27.9	203.4	1.98	-12.75	-0.68	203.244	0.9742	6	1.69371	128.2314	1.55676	0	1.5568	129.56	0.9817	-0.005	6	0.598	0.7938	1.7701	151.3088
28	202.7	1.98	-12.8	-0.69	202.543	0.9776	6	1.69583	128.223	1.56318	0	1.5632	128.57	0.9852	-0.005	6	0.5995	0.7914	1.7733	150.3207
28.1	206	2	-12.8	-0.7	205.843	0.9716	6	1.68902	128.3359	1.56959	0	1.5696	130.14	0.9791	-0.005	6	0.5974	0.7901	1.7668	152.5395

28.2	209	1.95	-12.8	-0.7	208.843	0.9337	6	1.67229	128.186	1.576	0	1.576	131.51	0.9408	-0.004	6	0.5914	0.7901	1.7503	154.7653
28.3	204.9	1.71	-12.78	-0.7	204.744	0.8352	6	1.64436	127.1766	1.58236	0	1.5824	128.39	0.8417	-0.005	6	0.5816	0.7913	1.7237	151.9389
28.4	192.9	1.36	-12.7	-0.7	192.745	0.7056	6	1.61395	125.3537	1.58863	0	1.5886	120.33	0.7115	-0.005	6	0.5713	0.7928	1.6959	143.2304
28.5	176.6	1.15	-12.48	-0.7	176.447	0.6518	6	1.62069	123.911	1.59482	0	1.5948	109.64	0.6577	-0.005	6	0.5756	0.7897	1.7064	130.4918
28.6	160.9	1.07	-12.11	-0.71	160.752	0.6656	6	1.65778	123.1562	1.60098	0	1.601	99.408	0.6723	-0.005	6	0.5917	0.7827	1.7479	117.7245
28.7	144.1	1.08	-12.03	-0.72	143.953	0.7503	6	1.72777	122.955	1.60713	0.00312	1.604	88.744	0.7587	-0.006	6	0.6203	0.7726	1.8227	103.9301
28.8	129.2	1.16	-11.97	-0.72	129.053	0.8989	6	1.81448	123.2114	1.61329	0.00624	1.6071	79.301	0.9102	-0.007	6	0.6554	0.7604	1.9144	91.58499
28.9	117.3	1.23	-11.89	-0.72	117.154	1.0499	6	1.89031	123.4042	1.61946	0.00936	1.6101	71.756	1.0646	-0.007	6	0.6862	0.7497	1.9949	81.86118
29	101.2	1.36	-11.49	-0.7	101.059	1.3457	6	2.00989	123.7789	1.62565	0.01248	1.6132	61.639	1.3678	-0.008	5	0.7346	0.7336	2.1215	68.93999
29.1	78.3	1.54	-11.26	-0.7	78.1622	1.9703	5	2.20424	124.0618	1.63185	0.0156	1.6163	47.35	2.0123	-0.011	5	0.8139	0.7084	2.3283	51.23369
29.2	59.7	1.38	-11.05	-0.7	59.5648	2.3168	5	2.33852	122.5964	1.63798	0.01872	1.6193	35.774	2.3823	-0.014	4	0.8703	0.6905	2.4763	37.80276
29.3	49	1.33	-10.74	-0.7	48.8685	2.7216	5	2.44914	121.8436	1.64407	0.02184	1.6222	29.111	2.8163	-0.017	4	0.9168	0.6759	2.5981	30.16499
29.4	39.8	1.39	-10.59	-0.7	39.6704	3.5039	4	2.59011	121.6579	1.65016	0.02496	1.6252	23.394	3.656	-0.021	4	0.9754	0.658	2.752	23.64268
29.5	33.5	1.4	-10.35	-0.7	33.3733	4.195	4	2.69833	121.2887	1.65622	0.02808	1.6281	19.481	4.414	-0.024	3	1	0.6499	2.8691	19.48055
29.6	32.1	1.56	-9.92	-0.7	31.9786	4.8783	3	2.75686	121.9764	1.66232	0.0312	1.6311	18.586	5.1458	-0.025	3	1	0.6487	2.9282	18.58616
29.7	32.9	1.49	-9.88	-0.71	32.7791	4.5456	4	2.72792	121.7008	1.66841	0.03432	1.6341	19.039	4.7894	-0.024	3	1	0.6475	2.8998	19.03858
29.8	32.7	1.24	-9.96	-0.72	32.5781	3.8062	4	2.67741	120.3419	1.67442	0.03744	1.637	18.878	4.0125	-0.024	3	1	0.6464	2.8528	18.87843
29.9	30.8	0	-9.98	-0.72	30.6778	0	0	0	120.9	1.68047	0.04056	1.6399	17.682	0	-0.026	0	1	0.6452	0	0
30	35.2	0	-9.94	-0.72	35.0783	0	0	0	120.9	1.68651	0.04368	1.6428	20.326	0	-0.023	0	1	0.6441	0	0

	CPT-10	In situ data							Basic output data										
Depth (ft)	qc (tsf)	fs (tsf)	u (psi)	Other	qt (tsf)	Rf(%)	SBT	Ic SBT	ã (pcf)	ó,v (tsf)	u0 (tsf)	ó',vo (tsf)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.1	2.8	0	-0.03	0.02	2.79963	0	0	0	120.9	0.00605	0	0.0061	462.13	0	-8E-04	0	1	175.04	0	0
0.2	6.1	0	-0.03	0.02	6.09963	0	0	0	120.9	0.01209	0	0.0121	503.52	0	-4E-04	0	1	87.519	0	0
0.3	11.5	0.04	-0.02	0.24	11.4998	0.3478	5	2.55015	92.67569	0.01672	0	0.0167	686.63	0.3483	-1E-04	6	0.5055	8.1378	1.7039	88.31436
0.4	20.7	0.05	-0.09	0.54	20.6989	0.2416	5	2.2605	95.74196	0.02151	0	0.0215	961.25	0.2418	-3E-04	6	0.4452	5.6662	1.5482	110.7273
0.5	35.8	0.08	-0.13	0.72	35.7984	0.2235	6	2.02243	100.5171	0.02654	0	0.0265	1348	0.2236	-3E-04	6	0.3922	4.2446	1.4314	143.4992
0.6	55.8	0.11	-0.13	0.87	55.7984	0.1971	6	1.82213	103.9298	0.03173	0	0.0317	1757.4	0.1973	-2E-04	6	0.3509	3.4232	1.3185	180.4176
0.7	72.4	0.14	-0.13	0.95	72.3984	0.1934	6	1.71144	106.3296	0.03705	0	0.0371	1953.1	0.1935	-1E-04	7	0.3338	3.0618	1.2558	209.3909
0.8	80.6	0.18	-0.11	1.02	80.5987	0.2233	6	1.68703	108.4301	0.04247	0	0.0425	1896.7	0.2235	-1E-04	7	0.3293	2.883	1.264	219.488
0.9	101.4	0.23	-0.05	1.14	101.399	0.2268	6	1.59594	110.7836	0.04801	0	0.048	2111	0.2269	-4E-05	7	0.3122	2.6259	1.2146	251.5254
1	126.9	0.31	-0.05	1.06	126.899	0.2443	6	1.5181	113.5149	0.05369	0	0.0537	2362.7	0.2444	-3E-05	7	0.3025	2.4636	1.1701	295.3367
1.1	106	0.37	-0.05	1.13	105.999	0.3491	6	1.65549	114.3705	0.0594	0	0.0594	1783.4	0.3493	-3E-05	7	0.3456	2.7058	1.2877	270.9121
1.2	109.5	0.41	-0.05	1.11	109.499	0.3744	6	1.65735	115.2009	0.06516	0	0.0652	1679.3	0.3747	-3E-05	7	0.3505	2.6561	1.3012	274.7094
1.3	118.9	0.48	-0.05	1.07	118.899	0.4037	6	1.64223	116.5551	0.07099	0	0.071	1673.8	0.4039	-3E-05	7	0.3477	2.5584	1.3062	287.3193
1.4	130.5	0.52	-0.05	1.06	130.499	0.3985	6	1.60452	117.3678	0.07686	0	0.0769	1696.9	0.3987	-3E-05	7	0.341	2.4455	1.2865	301.434
1.5	139.8	0.53	0.02	1.05	139.8	0.3791	6	1.56777	117.6751	0.08274	0	0.0827	1688.5	0.3793	1E-05	7	0.3333	2.3381	1.2648	308.7329
1.6	154.7	0.53	-0.05	1.1	154.699	0.3426	6	1.50759	117.9221	0.08864	0	0.0886	1744.2	0.3428	-2E-05	7	0.318	2.2	1.2236	321.4591
1.7	168	0.54	0.02	1.08	168	0.3214	6	1.46273	118.2601	0.09455	0	0.0946	1775.8	0.3216	1E-05	7	0.3072	2.1002	1.1942	333.264
1.8	174.6	0.6	-0.05	1.08	174.599	0.3436	6	1.46302	119.125	0.10051	0	0.1005	1736.1	0.3438	-2E-05	7	0.3111	2.08	1.2024	343.0174
1.9	173.3	0.67	-0.05	1.09	173.299	0.3866	6	1.49284	119.9142	0.10651	0	0.1065	1626.1	0.3869	-2E-05	7	0.3239	2.1035	1.234	344.3081
2	169.8	0.78	-0.07	1.12	169.799	0.4594	6	1.54188	120.9767	0.11255	0	0.1126	1507.6	0.4597	-3E-05	7	0.3431	2.1573	1.2827	345.9687
2.1	164.3	0.85	-0.11	1.13	164.299	0.5174	6	1.58352	121.5252	0.11863	0	0.1186	1384	0.5177	-5E-05	7	0.3592	2.1947	1.3237	340.5368
2.2	156.8	0.96	-0.03	1.14	156.8	0.6123	6	1.64371	122.3017	0.12475	0	0.1248	1256	0.6127	-1E-05	6	0.3838	2.2716	1.3799	336.3521
2.3	149.8	1.18	0.02	1.14	149.8	0.7877	6	1.72803	123.7001	0.13093	0	0.1309	1143.1	0.7884	1E-05	6	0.4146	2.378	1.4618	336.3648
2.4	142.8	1.35	0.07	1.14	142.801	0.9454	6	1.7957	124.5682	0.13716	0	0.1372	1040.1	0.9463	4E-05	6	0.4396	2.4549	1.5275	330.9847
2.5	135.6	1.51	0.21	1.14	135.603	1.1136	6	1.86019	125.2616	0.14342	0	0.1434	944.48	1.1147	0.0001	6	0.4634	2.5248	1.5901	323.2263
2.6	139	1.59	0.18	1.14	139.002	1.1439	6	1.86033	125.6997	0.14971	0	0.1497	927.49	1.1451	9E-05	6	0.4662	2.4884	1.5967	326.5425
2.7	153.8	1.62	0.25	1.14	153.803	1.0533	6	1.80379	126.0833	0.15601	0	0.156	984.84	1.0544	0.0001	6	0.4504	2.3682	1.5545	343.8874
2.8	175.3	1.55	0.25	1.14	175.303	0.8842	6	1.71031	126.0792	0.16232	0	0.1623	1079	0.885	0.0001	6	0.4217	2.2047	1.4785	364.9226
2.9	191.9	1.47	0.25	1.14	191.903	0.766	6	1.63919	125.9121	0.16861	0	0.1686	1137.1	0.7667	9E-05	6	0.3999	2.0844	1.4203	377.6981
3	195.3	1.43	0.25	1.16	195.303	0.7322	6	1.62037	125.7531	0.1749	0	0.1749	1115.7	0.7329	9E-05	6	0.395	2.0361	1.4068	375.4808
3.1	185.7	1.52	0.25	1.14	185.703	0.8185	6	1.66917	126.0767	0.1812	0	0.1812	1023.8	0.8193	0.0001	6	0.4129	2.0723	1.4534	363.3485
3.2	169.7	1.54	0.26	1.16	169.703	0.9075	6	1.72832	125.9526	0.1875	0	0.1875	904.08	0.9085	0.0001	6	0.4336	2.1177	1.507	339.2662
3.3	148.4	1.8	0.32	1.16	148.404	1.2129	6	1.85756	126.767	0.19384	0	0.1938	764.61	1.2145	0.0002	6	0.479	2.2547	1.6259	315.818
3.4	134.2	1.91	0.28	1.16	134.203	1.4232	6	1.9375	126.9557	0.20019	0	0.2002	669.39	1.4253	0.0002	6	0.5074	2.3274	1.6996	294.7541
3.5	132.6	1.91	0.3	1.15	132.604	1.4404	6	1.94487	126.9265	0.20653	0	0.2065	641.05	1.4426	0.0002	6	0.5113	2.3058	1.7093	288.5146
3.6	131	1.72	0.32	1.16	131.004	1.3129	6	1.92034	126.1302	0.21284	0	0.2128	614.51	1.3151	0.0002	6	0.5034	2.2419	1.6877	277.1157
3.7	132.6	1.45	0.26	1.17	132.603	1.0935	6	1.86197	124.9104	0.21908	0	0.2191	604.26	1.0953	0.0001	6	0.4836	2.1415	1.6347	267.9343
3.8	134.5	1.12	0.32	1.19	134.504	0.8327	6	1.77935	123.0556	0.22524	0	0.2252	596.16	0.8341	0.0002	6	0.4548	2.0212	1.5582	256.4959
3.9	139	0.92	0.32	1.19	139.004	0.6619	6	1.7058	121.6965	0.23132	0	0.2313	599.91	0.663	0.0002	6	0.43	1.9228	1.492	252.1817
4	145.5	0.89	0.32	1.2	145.504	0.6117	6	1.66925	121.5654	0.2374	0	0.2374	611.9	0.6127	0.0002	6	0.4191	1.8707	1.4625	256.8222
4.1	152	0.95	0.38	1.2	152.005	0.625	6	1.65985	122.1494	0.24351	0	0.2435	623.23	0.626	0.0002	6	0.418	1.8479	1.4591	265.0437
4.2	156.3	1.01	0.4	1.22	156.305	0.6462	6	1.65924	122.6655	0.24964	0	0.2496	625.12	0.6472	0.0002	6	0.4197	1.8334	1.463	270.3985
4.3	154.7	1.08	0.4	1.23	154.705	0.6981	6	1.68375	123.1307	0.2558	0	0.2558	603.79	0.6993	0.0002	6	0.4298	1.8408	1.4888	268.6976
4.4	148.8	1.15	0.4	1.24	148.805	0.7728	6	1.7249	123.4954	0.26197	0	0.262	567.02	0.7742	0.0002	6	0.4453	1.862	1.529	261.3907
4.5	141	1.15	0.4	1.24	141.005	0.8156	6	1.75785	123.3641	0.26814	0	0.2681	524.86	0.8171	0.0002	6	0.4575	1.8738	1.5602	249.2286
4.6	135.1	1.12	0.37	1.25	135.105	0.829	6	1.77663	123.0664	0.27429	0	0.2743	491.55	0.8307	0.0002	6	0.4647	1.8726	1.5784	238.6151
4.7	139.7	1.08	0.32	1.26	139.704	0.7731	6	1.74608	122.882	0.28044	0	0.2804	497.16	0.7746	0.0002	6	0.4554	1.8307	1.5533	241.2307
4.8	148.4	1.04	0.32	1.26	148.404	0.7008	6	1.69883	122.7532	0.28658	0	0.2866	516.85	0.7022	0.0002	6	0.4405	1.7779	1.5135	248.8759
4.9	149.3	1.04	0.4	1.26	149.305	0.6966	6	1.69514	122.7679	0.29271	0	0.2927	509.07	0.6979	0.0002	6	0.4405	1.7613	1.5127	248.0415
5	144.8	1.04	0.4	1.28	144.805	0.7182	6	1.71382	122.6933	0.29885	0	0.2989	483.54	0.7197	0.0002	6	0.4479	1.7617	1.5315	240.6004
5.1	142.9	0.99	0.4	1.28	142.905	0.6928	6	1.70853	122.3006	0.30496	0	0.305	467.6	0.6943	0.0002	6	0.4468	1.7435	1.5279	234.968
5.2	144.7	1	0.45	1.28	144.706	0.6911	6	1.7036	122.4046	0.31108	0	0.3111	464.17	0.6926	0.0002	6	0.4465	1.7273	1.5262	235.7102
5.3	144.9	1.01	0.4	1.28	144.905	0.697	6	1.70545	122.4808	0.31721	0	0.3172	455.81	0.6985	0.0002	6	0.4483	1.7162	1.5304	234.508
5.4	135.1	0.99	0.46	1.3	135.106	0.7328	6	1.74277	122.1637	0.32332	0	0.3233	416.87	0.7345	0.0003	6	0.4618	1.729	1.5652	220.2437
5.5	131.1	0.93	0.4	1.3	131.105	0.7094	6	1.74431	121.6329	0.3294	0	0.3294	397.01	0.7111	0.0002	6	0.4629	1.7164	1.5673	212.1363
5.6	132.7	0.88	0.44	1.29	132.705	0.6631	6	1.7223	121.2581	0.33546	0	0.3355	394.59	0.6648	0.0002	6	0.4562	1.6888	1.5488	211.2658
5.7	136.8	0.87	0.4	1.28	136.805	0.6359	6	1.7008	121.2487	0.34152	0	0.3415	399.57	0.6375	0.0002	6	0.4499	1.6633	1.5316	214.508
5.8	138.2	0.87	0.4	1.28	138.205	0.6295	6	1.69461	121.2736	0.34759	0	0.3476	396.61	0.6311	0.0002	6	0.4489	1.6483	1.5283	214.7533
5.9	137.4	0.88	0.4	1.29	137.405	0.6404	6	1.70113	121.343	0.35365	0	0.3537	387.53	0.6421	0.0002	6	0.4523	1.6417	1.5365	212.6369
6	135.6	0.88	0.4	1.28	135.605	0.6489	6	1.70915	121.3109	0.35972	0	0.3597	375.97	0.6507	0.0002	6	0.4561	1.6358	1.5458	209.0855
6.1	134.9	0.88	0.4	1.29	134.905	0.6523	6	1.7123	121.2982	0.36578	0	0.3658	367.81	0.6541	0.0002	6	0.457	1.6249	1.5512	206.6006
6.2	138.2	0.91	0.4	1.28	138.205	0.6584	6	1.70642	121.6025	0.37186	0	0.3719	370.65	0.6602	0.0002	6	0.4564	1.6117	1.5488	209.9441
6.3	142.2	0.96	0.4	1.3	142.205	0.6751	6	1.70326	122.0634	0.37797	0	0.378	375.24	0.6769	0.0002	6	0.4569	1.6006	1.5491	214.5422
6.4	144.1	1.04	0.38	1.3	144.105	0.7217	6	1.71679	122.6815	0.3841	0	0.3841	374.17	0.7236	0.0002	6	0.4634	1.5993	1.565	217.2308
6.5	143	1.07	0.32	1.31	143.004	0.7482	6	1.72926	122.8709	0.39025	0	0.3903	365.45	0.7503	0.0002	6	0.469	1.5965	1.5788	215.1845
6.6	139.7	1.05	0.32	1.31	139.704	0.7516	6	1.73834	122.6758	0.39638	0	0.3964	351.45	0.7537	0.0002	6	0.4731	1.5912	1.5886	209.4961
6.7	135.7	1	0.32	1.3	135.704	0.7369	6	1.74279	122.248	0.40249	0	0.4025	336.16	0.7391	0.0002	6	0.4753	1.5831	1.5936	202.4341
6.8	133.7	0.94	0.32	1.32	133.704	0.7031	6	1.7352	121.759	0.40858	0	0.4086	326.24	0.7052	0.0002	6	0.4732	1.5688	1.5874	197.628

6.9	129.8	0.87	0.32	1.32	129.804	0.6702	6	1.73275	121.1206	0.41464	0	0.4146	312.06	0.6724	0.0002	6	0.4728	1.5573	1.5856	190.4343
7	121.7	0.82	0.32	1.32	121.704	0.6738	6	1.7565	120.5304	0.42066	0	0.4207	288.32	0.6761	0.0002	6	0.4817	1.5594	1.608	178.7385
7.1	114.6	0.77	0.27	1.33	114.603	0.6719	6	1.7768	119.9234	0.42666	0	0.4267	267.61	0.6744	0.0002	6	0.4893	1.5595	1.6272	168.2838
7.2	111.1	0.7	0.31	1.32	111.104	0.63	6	1.77148	119.1504	0.43262	0	0.4326	255.82	0.6325	0.0002	6	0.4878	1.547	1.6226	161.8008
7.3	111.7	0.67	0.27	1.34	111.703	0.5998	6	1.75735	118.843	0.43856	0	0.4386	253.71	0.6022	0.0002	6	0.4837	1.5311	1.6109	160.9998
7.4	113.1	0.73	0.3	1.35	113.104	0.6454	6	1.77122	119.5009	0.44453	0	0.4445	253.43	0.648	0.0002	6	0.4901	1.5297	1.627	162.8679
7.5	114.5	0.84	0.25	1.36	114.503	0.7336	6	1.79986	120.5579	0.45056	0	0.4506	253.13	0.7365	0.0002	6	0.5022	1.5353	1.6576	165.4895
7.6	116.8	1.01	0.25	1.34	116.803	0.8647	6	1.83709	121.955	0.45666	0	0.4567	254.78	0.8681	0.0002	6	0.5176	1.5448	1.6969	169.8659
7.7	121.1	1.17	0.25	1.36	121.103	0.9661	6	1.85582	123.1192	0.46281	0	0.4628	260.67	0.9698	0.0002	6	0.5263	1.5453	1.7188	176.182
7.8	123.8	1.3	0.25	1.36	123.803	1.0501	6	1.87234	123.9439	0.46901	0	0.469	262.97	1.0541	0.0002	6	0.5339	1.544	1.7379	179.9728
7.9	121.8	1.38	0.25	1.36	121.803	1.133	6	1.89962	124.3411	0.47523	0	0.4752	255.3	1.1374	0.0002	6	0.545	1.5469	1.7661	177.3689
8	117.5	1.26	0.25	1.36	117.503	1.0723	6	1.89538	123.5878	0.48141	0	0.4814	243.08	1.0767	0.0002	6	0.5439	1.5346	1.7624	169.723
8.1	114.2	1.27	0.25	1.38	114.203	1.1121	6	1.9151	123.5762	0.48759	0	0.4876	233.22	1.1168	0.0002	6	0.5519	1.5335	1.7827	164.8108
8.2	115	1.24	0.17	1.36	115.002	1.0782	6	1.90398	123.4183	0.49376	0	0.4938	231.91	1.0829	0.0001	6	0.5488	1.5194	1.7739	164.4293
8.3	122.3	1.23	0.1	1.35	122.301	1.0057	6	1.86397	123.5091	0.49993	0	0.4999	243.63	1.0098	6E-05	6	0.5357	1.4943	1.7386	172.0091
8.4	134.8	1.29	0.02	1.36	134.8	0.957	6	1.81795	124.0949	0.50614	0	0.5061	265.33	0.9606	1E-05	6	0.5208	1.4682	1.6986	186.3417
8.5	139.8	1.42	0.02	1.34	139.8	1.0157	6	1.82342	124.8863	0.51238	0	0.5124	271.84	1.0195	1E-05	6	0.5243	1.4626	1.7071	192.5379
8.6	142.5	1.52	0.09	1.34	142.501	1.0667	6	1.83169	125.4309	0.51865	0	0.5187	273.75	1.0706	5E-05	6	0.5287	1.4579	1.7177	195.6221
8.7	144.3	1.58	0.03	1.32	144.3	1.0949	6	1.83548	125.7448	0.52494	0	0.5249	273.89	1.0989	2E-05	6	0.5313	1.4512	1.7236	197.1896
8.8	142.2	1.59	0.04	1.32	142.2	1.1181	6	1.84636	125.7552	0.53123	0	0.5312	266.68	1.1223	2E-05	6	0.5361	1.4469	1.7356	193.7238
8.9	136.2	1.57	0.08	1.31	136.201	1.1527	6	1.86905	125.5574	0.53751	0	0.5375	252.39	1.1573	4E-05	6	0.5451	1.4465	1.7582	185.4657
9	128	1.51	0.02	1.3	128	1.1797	6	1.8956	125.1209	0.54376	0	0.5438	234.4	1.1847	1E-05	6	0.5552	1.4472	1.7841	174.3254
9.1	118.7	1.42	0.02	1.29	118.7	1.1963	6	1.9238	124.4872	0.54999	0	0.55	214.82	1.2019	1E-05	6	0.5659	1.4481	1.8112	161.7001
9.2	109.7	1.34	0.04	1.28	109.7	1.2215	6	1.95526	123.8706	0.55618	0	0.5562	196.24	1.2277	3E-05	6	0.5777	1.45	1.8415	149.5668
9.3	102	1.23	0.08	1.28	102.001	1.2059	6	1.97519	123.0664	0.56233	0	0.5623	180.39	1.2126	6E-05	6	0.5853	1.4477	1.8607	138.7923
9.4	96.1	1.12	0.02	1.28	96.1002	1.1655	6	1.9851	122.2356	0.56845	0	0.5685	168.06	1.1724	2E-05	6	0.5893	1.4422	1.8705	130.2101
9.5	93.2	1.05	0.02	1.28	93.2002	1.1266	6	1.98579	121.6886	0.57453	0	0.5745	161.22	1.1336	2E-05	6	0.5902	1.434	1.8721	125.5278
9.6	91.6	1	0.02	1.28	91.6002	1.0917	6	1.98287	121.2894	0.5806	0	0.5806	156.77	1.0987	2E-05	6	0.5899	1.4248	1.8705	122.5662
9.7	91.2	0.97	0.02	1.29	91.2002	1.0636	6	1.97718	121.0558	0.58665	0	0.5867	154.46	1.0705	2E-05	6	0.5887	1.4151	1.8665	121.1885
9.8	93	0.95	0.02	1.28	93.0002	1.0215	6	1.95955	120.9511	0.5927	0	0.5927	155.91	1.0281	2E-05	6	0.5833	1.4022	1.8514	122.4559
9.9	97.3	0.98	0.02	1.3	97.3002	1.0072	6	1.94044	121.2888	0.59876	0	0.5988	161.5	1.0134	1E-05	6	0.5775	1.3893	1.8356	126.971
10	103.8	1.03	0.02	1.28	103.8	0.9923	6	1.9146	121.8106	0.60485	0	0.6049	170.61	0.9981	1E-05	6	0.5694	1.375	1.8135	134.099
10.1	108	1.09	0.02	1.28	108	1.0093	6	1.90605	122.3216	0.61097	0	0.611	175.77	1.015	1E-05	6	0.5675	1.3657	1.8079	138.6098
10.2	109	1.15	0.02	1.3	109	1.055	6	1.91543	122.7362	0.6171	0	0.6171	175.63	1.0611	1E-05	6	0.5721	1.3614	1.8191	139.4452
10.3	108.2	1.18	0.02	1.3	108.2	1.0906	6	1.92722	122.9067	0.62325	0	0.6233	172.61	1.0969	1E-05	6	0.5774	1.3575	1.8322	138.0133
10.4	105.2	1.18	0.02	1.3	105.2	1.1217	6	1.94444	122.8381	0.62939	0	0.6294	166.15	1.1284	1E-05	6	0.5846	1.3548	1.8503	133.8963
10.5	101	1.16	-0.05	1.32	100.999	1.1485	6	1.96456	122.6136	0.63552	0	0.6355	157.92	1.1558	-4E-05	6	0.5927	1.3528	1.8709	128.3148
10.6	94.4	1.12	0.02	1.32	94.4002	1.1864	6	1.99603	122.192	0.64163	0	0.6416	146.13	1.1946	2E-05	6	0.6049	1.3534	1.9021	119.9215
10.7	88.6	1.06	-0.04	1.32	88.5995	1.1964	6	2.0194	121.6345	0.64771	0	0.6477	135.79	1.2052	-3E-05	6	0.6141	1.3518	1.9255	112.3605
10.8	81.9	0.98	0.01	1.3	81.9001	1.1966	5	2.04572	120.8685	0.65376	0	0.6538	124.28	1.2062	1E-05	6	0.6243	1.3507	1.9515	103.7122
10.9	76	0.9	-0.03	1.31	75.9996	1.1842	5	2.0681	120.0631	0.65976	0	0.6598	114.19	1.1946	-3E-05	6	0.6331	1.3486	1.9738	96.02263
11	72	0.81	-0.05	1.31	71.9994	1.125	5	2.07274	119.1603	0.66572	0	0.6657	107.15	1.1355	-5E-05	6	0.6354	1.3423	1.979	90.4957
11.1	72.3	0.74	-0.05	1.31	72.2994	1.0235	6	2.04638	118.5091	0.67164	0	0.6716	106.65	1.0331	-5E-05	6	0.6264	1.3294	1.9547	89.99046
11.2	76.4	0.71	-0.05	1.32	76.3994	0.9293	6	2.00212	118.3408	0.67756	0	0.6776	111.76	0.9376	-5E-05	6	0.611	1.3131	1.9136	93.96741
11.3	81.1	0.65	-0.09	1.32	81.0989	0.8015	6	1.94345	117.8404	0.68345	0	0.6835	117.66	0.8083	-8E-05	6	0.5902	1.2943	1.8583	98.36711
11.4	87.8	0.71	-0.08	1.32	87.799	0.8087	6	1.9177	118.68	0.68939	0	0.6894	126.36	0.8151	-7E-05	6	0.582	1.2832	1.836	105.641
11.5	88.9	0.77	-0.05	1.32	88.8994	0.8662	6	1.93106	119.304	0.69535	0	0.6954	126.85	0.873	-4E-05	6	0.5881	1.28	1.8512	106.704
11.6	96.7	0.81	-0.15	1.34	96.6982	0.8377	6	1.89315	119.8796	0.70134	0	0.7013	136.88	0.8438	-1E-04	6	0.5753	1.2669	1.8168	114.9391
11.7	102.5	0.8	-0.25	1.36	102.497	0.7805	6	1.85448	119.9308	0.70734	0	0.7073	143.9	0.7859	-2E-04	6	0.5619	1.254	1.7811	120.6306
11.8	106	0.77	-0.28	1.36	105.997	0.7264	6	1.82419	119.733	0.71333	0	0.7133	147.59	0.7314	-2E-04	6	0.5516	1.243	1.7531	123.6754
11.9	111.5	0.75	-0.28	1.36	111.497	0.6727	6	1.78675	119.6638	0.71931	0	0.7193	154	0.677	-2E-04	6	0.5386	1.2311	1.7184	128.885
12	121.2	0.75	-0.25	1.37	121.197	0.6188	6	1.73617	119.8673	0.7253	0	0.7253	166.1	0.6226	-2E-04	6	0.5209	1.2174	1.6711	138.6085
12.1	133.5	0.78	-0.23	1.38	133.497	0.5843	6	1.68753	120.39	0.73132	0	0.7313	181.54	0.5875	-1E-04	6	0.504	1.2046	1.626	151.1496
12.2	141.4	0.81	-0.3	1.38	141.396	0.5729	6	1.66228	120.8064	0.73736	0	0.7374	190.76	0.5759	-2E-04	6	0.4956	1.196	1.6033	158.9922
12.3	146.1	0.87	-0.33	1.38	146.096	0.5955	6	1.66084	121.409	0.74343	0	0.7434	195.51	0.5985	-2E-04	6	0.4961	1.1914	1.6037	163.6581
12.4	150	0.91	-0.28	1.4	149.997	0.6067	6	1.65657	121.8022	0.74952	0	0.7495	199.12	0.6097	-1E-04	6	0.4954	1.1863	1.6012	167.3264
12.5	156.8	0.94	-0.3	1.41	156.796	0.5995	6	1.63814	122.1476	0.75563	0	0.7556	206.5	0.6024	-1E-04	6	0.4895	1.1792	1.5849	173.8942
12.6	162.2	0.97	-0.35	1.41	162.196	0.598	6	1.62585	122.4601	0.76176	0	0.7618	211.92	0.6009	-2E-04	6	0.4859	1.1731	1.5745	178.9793
12.7	166.2	1.05	-0.35	1.43	166.196	0.6318	6	1.6323	123.0994	0.76791	0	0.7679	215.43	0.6347	-2E-04	6	0.4892	1.1698	1.5826	182.8882
12.8	168	1.12	-0.35	1.44	167.996	0.6667	6	1.64339	123.5979	0.77409	0	0.7741	216.02	0.6698	-2E-04	6	0.4942	1.167	1.595	184.4374
12.9	166.7	1.16	-0.33	1.44	166.696	0.6959	6	1.65786	123.8357	0.78028	0	0.7803	212.64	0.6992	-1E-04	6	0.5004	1.1647	1.6105	182.6226
13	163.3	1.16	-0.3	1.45	163.296	0.7104	6	1.67046	123.7854	0.78647	0	0.7865	206.63	0.7138	-1E-04	6	0.5059	1.1619	1.624	178.4552
13.1	161.2	1.15	-0.35	1.47	161.196	0.7134	6	1.67597	123.6905	0.79266	0	0.7927	202.36	0.7169	-2E-04	6	0.5087	1.1583	1.6305	175.5865
13.2	163.6	1.13	-0.35	1.46	163.596	0.6907	6	1.66207	123.5982	0.79884	0	0.7988	203.79	0.6941	-2E-04	6	0.5042	1.1523	1.6181	177.2835
13.3	165.2	1.13	-0.35	1.48	165.196	0.684	6	1.65612	123.6219	0.80502	0	0.805	204.21	0.6874	-2E-04	6	0.5028	1.1473	1.6136	178.2543
13.4	164.3	1.16	-0.35	1.48	164.296	0.706	6	1.66673	123.8003	0.81121	0	0.8112	201.53	0.7096	-2E-04	6	0.5075	1.1444	1.6253	176.8137
13.5	165	1.2	-0.35	1.49	164.996	0.7273	6	1.67361	124.0587	0.81741	0	0.8174	200.85	0.7309	-2E-04	6	0.5109	1.141	1.6334	177.0335
13.6	161.6	1.21	-0.35	1.51	161.596	0.7488	6	1.68869	124.0687	0.82361	0	0.8236	195.2	0.7526	-2E-04	6	0.5173	1.1384	1.6494	172.9687
13.7	155.8	1.21	-0.35	1.53	155.796	0.7767	6	1.71107	123.9795	0.82981	0	0.8298	186.75	0.7808	-2E-04	6	0.5264	1.1365	1.6725	166.444
13.8	150.4	1.18	-0.35	1.53	150.396	0.7846	6	1.7256	123.7098	0.836	0	0.836	178.9	0.789	-2E-04	6	0.5325	1.1337	1.6878	160.2422
13.9	147	1.14	-0.42	1.53	146.995	0.7755	6	1.72996	123.4017	0.84217	0	0.8422	173.54	0.78	-2E-04	6	0.5349	1.1299	1.6931	156.0628

14	145.3	1.09	-0.37	1.53	145.295	0.7502	6	1.72464	123.0451	0.84832	0	0.8483	170.27	0.7546	-2E-04	6	0.5336	1.1251	1.689	153.5984
14.1	145	1.07	-0.35	1.55	144.996	0.738	6	1.7208	122.9046	0.85447	0	0.8545	168.69	0.7423	-2E-04	6	0.5329	1.1207	1.6864	152.6612
14.2	147.1	1.05	-0.42	1.55	147.095	0.7138	6	1.70685	122.8016	0.86061	0	0.8606	169.92	0.718	-2E-04	6	0.5284	1.1154	1.6739	154.1452
14.3	149.1	1.04	-0.37	1.57	149.095	0.6975	6	1.69599	122.7645	0.86674	0	0.8667	171.02	0.7016	-2E-04	6	0.5251	1.1104	1.6644	155.5588
14.4	147.9	1.08	-0.35	1.57	147.896	0.7302	6	1.71126	123.021	0.87289	0	0.8729	168.43	0.7346	-2E-04	6	0.5316	1.1077	1.6807	153.9145
14.5	144.6	1.09	-0.41	1.57	144.595	0.7538	6	1.72759	123.0333	0.87905	0	0.8791	163.49	0.7584	-2E-04	6	0.5385	1.105	1.6981	150.0837
14.6	139.5	1.07	-0.5	1.59	139.494	0.7671	6	1.74444	122.8102	0.88519	0	0.8852	156.59	0.772	-3E-04	6	0.5456	1.1022	1.7158	144.3904
14.7	140.8	1.05	-0.43	1.6	140.795	0.7458	6	1.73359	122.6948	0.89132	0	0.8913	156.96	0.7505	-2E-04	6	0.5422	1.0975	1.7063	145.1079
14.8	139.1	1.07	-0.43	1.65	139.095	0.7693	6	1.74619	122.8033	0.89746	0	0.8975	153.99	0.7743	-2E-04	6	0.5479	1.0944	1.72	142.9402
14.9	136.2	1.1	-0.5	1.63	136.194	0.8077	6	1.76671	122.9542	0.90361	0	0.9036	149.72	0.8131	-3E-04	6	0.5564	1.0918	1.7416	139.5979
15	130	1.11	-0.5	1.67	129.994	0.8539	6	1.79772	122.9068	0.90975	0	0.9098	141.89	0.8599	-3E-04	6	0.5689	1.0897	1.7735	132.9423
15.1	123.3	1.08	-0.5	1.65	123.294	0.876	6	1.82248	122.5772	0.91588	0	0.9159	133.62	0.8825	-3E-04	6	0.5789	1.0872	1.7992	125.738
15.2	116.4	1.02	-0.5	1.69	116.394	0.8763	6	1.84193	122.0185	0.92198	0	0.922	125.24	0.8833	-3E-04	6	0.587	1.0842	1.8197	118.3185
15.3	108.2	0.94	-0.5	1.67	108.194	0.8688	6	1.86431	121.2427	0.92805	0	0.9281	115.58	0.8763	-3E-04	6	0.5962	1.0813	1.8431	109.6202
15.4	95.7	0.85	-0.5	1.69	95.6939	0.8883	6	1.91222	120.2069	0.93406	0	0.9341	101.45	0.897	-4E-04	6	0.6151	1.0797	1.892	96.69512
15.5	82.4	0.75	-0.5	1.71	82.3939	0.9103	6	1.97041	118.9261	0.94	0	0.94	86.653	0.9208	-4E-04	6	0.6379	1.0784	1.9512	83.01786
15.6	73.3	0.66	-0.5	1.71	73.2939	0.9005	6	2.00862	117.7053	0.94589	0	0.9459	76.487	0.9123	-5E-04	6	0.6533	1.076	1.9908	73.57056
15.7	66.2	0.59	-0.58	1.71	66.1929	0.8913	6	2.04214	116.6364	0.95172	0	0.9517	68.551	0.9043	-6E-04	6	0.6669	1.0732	2.0258	66.17322
15.8	60.3	0.57	-0.58	1.69	60.2929	0.9454	5	2.09002	116.1563	0.95753	0	0.9575	61.967	0.9606	-7E-04	5	0.686	1.0709	2.0754	60.05405
15.9	54.1	0.55	-0.66	1.71	54.0919	1.0168	5	2.14677	115.6303	0.96331	0	0.9633	55.152	1.0352	-9E-04	5	0.7086	1.0688	2.134	53.66424
16	50.4	0.54	-0.73	1.71	50.3911	1.0716	5	2.18506	115.3231	0.96908	0	0.9691	50.999	1.0926	-0.001	5	0.7242	1.0657	2.1742	49.77769
16.1	48	0.56	-0.73	1.71	47.9911	1.1669	5	2.22368	115.4702	0.97485	0	0.9749	48.229	1.1911	-0.001	5	0.7399	1.0625	2.2147	47.21201
16.2	45.2	0.58	-0.73	1.71	45.1911	1.2834	5	2.26898	115.5804	0.98063	0	0.9806	45.084	1.3119	-0.001	5	0.7582	1.0594	2.262	44.26239
16.3	42.2	0.6	-0.73	1.71	42.1911	1.4221	5	2.31932	115.6609	0.98641	0	0.9864	41.772	1.4562	-0.001	5	0.7785	1.0561	2.3146	41.12811
16.4	39.4	0.61	-0.86	1.71	39.3895	1.5486	5	2.36532	115.6143	0.99219	0	0.9922	38.699	1.5887	-0.002	5	0.7972	1.0526	2.363	38.19792
16.5	38.8	0.6	-0.88	1.74	38.7892	1.5468	5	2.37037	115.4559	0.99796	0	0.998	37.868	1.5877	-0.002	5	0.8001	1.0479	2.3699	37.42793
16.6	39.1	0.56	-0.81	1.73	39.0901	1.4326	5	2.34799	114.9699	1.00371	0	1.0037	37.945	1.4703	-0.002	5	0.7924	1.0427	2.3491	37.53208
16.7	42.4	0.52	-0.68	1.73	42.3917	1.2267	5	2.28021	114.6254	1.00944	0	1.0094	40.995	1.2566	-0.001	5	0.7671	1.0368	2.282	40.54806
16.8	47.5	0.5	-0.66	1.74	47.4919	1.0528	5	2.20187	114.6155	1.01518	0	1.0152	45.782	1.0758	-0.001	5	0.7377	1.031	2.204	45.28726
16.9	49.6	0.53	-0.66	1.75	49.5919	1.0687	5	2.19009	115.1474	1.02093	0	1.0209	47.575	1.0912	-1E-03	5	0.7339	1.0266	2.1933	47.12448
17	48.5	0.67	-0.66	1.75	48.4919	1.3817	5	2.26333	116.8078	1.02677	0	1.0268	46.228	1.4116	-0.001	5	0.7628	1.0232	2.2684	45.89902
17.1	47	0.86	-0.66	1.77	46.9919	1.8301	5	2.34931	118.5579	1.0327	0	1.0327	44.504	1.8712	-0.001	5	0.7966	1.0196	2.3564	44.28441
17.2	41.1	0.97	-0.66	1.78	41.0919	2.3606	5	2.46475	119.1113	1.03866	0	1.0387	38.563	2.4218	-0.001	4	0.8422	1.0158	2.4753	38.44979
17.3	35.2	0.92	-0.72	1.79	35.1912	2.6143	4	2.5448	118.346	1.04457	0	1.0446	32.69	2.6943	-0.002	4	0.8745	1.0113	2.5595	32.63676
17.4	31.9	0.96	-0.73	1.77	31.8911	3.0103	4	2.61702	118.4173	1.05049	0	1.0505	29.358	3.1128	-0.002	4	0.9037	1.0066	2.6354	29.33773
17.5	32.4	1.04	-0.73	1.77	32.3911	3.2108	4	2.63018	119.0409	1.05645	0	1.0565	29.66	3.319	-0.002	4	0.9096	1.0014	2.65	29.65617
17.6	38.1	1.05	-1.03	1.77	38.0874	2.7568	4	2.53365	119.506	1.06242	0	1.0624	34.85	2.8359	-0.002	4	0.8726	0.9965	2.5522	34.86766
17.7	39.1	1	-1.11	1.77	39.0864	2.5584	4	2.50396	119.2122	1.06838	0	1.0684	35.585	2.6303	-0.002	4	0.862	0.9917	2.5237	35.63214
17.8	39.4	0.94	-1.11	1.77	39.3864	2.3866	4	2.4819	118.7781	1.07432	0	1.0743	35.662	2.4535	-0.002	4	0.8545	0.9871	2.5031	35.74067
17.9	42	0.91	-1.16	1.75	41.9858	2.1674	5	2.43376	118.6966	1.08026	0	1.0803	37.867	2.2246	-0.002	5	0.8366	0.9828	2.4555	37.99492
18	44.5	0.84	-1.49	1.75	44.4818	1.8884	5	2.37641	118.2518	1.08617	0	1.0862	39.953	1.9357	-0.002	5	0.8152	0.9789	2.3987	40.14658
18.1	45.4	0.77	-1.46	1.75	45.3821	1.6967	5	2.34058	117.664	1.09205	0	1.0921	40.557	1.7385	-0.002	5	0.8023	0.975	2.3641	40.81069
18.2	46.3	0.79	-1.38	1.75	46.2831	1.7069	5	2.33549	117.8996	1.09795	0	1.098	41.154	1.7484	-0.002	5	0.8011	0.9708	2.3602	41.45783
18.3	46.8	0.79	-1.46	1.74	46.7821	1.6887	5	2.32895	117.9258	1.10384	0	1.1038	41.381	1.7295	-0.002	5	0.7994	0.9667	2.355	41.73382
18.4	47.1	0.77	-1.39	1.72	47.083	1.6354	5	2.31814	117.7538	1.10973	0	1.1097	41.427	1.6749	-0.002	5	0.7961	0.9628	2.3456	41.83165
18.5	48.1	0.74	-1.25	1.72	48.0847	1.539	5	2.29467	117.5143	1.11561	0	1.1156	42.102	1.5755	-0.002	5	0.7879	0.9592	2.3233	42.57702
18.6	49.8	0.72	-1.18	1.72	49.7856	1.4462	5	2.26622	117.3986	1.12148	0	1.1215	43.393	1.4795	-0.002	5	0.7777	0.9558	2.2957	43.95764
18.7	51.8	0.7	-1.22	1.71	51.7851	1.3517	5	2.23483	117.2885	1.12734	0	1.1273	44.936	1.3818	-0.002	5	0.7663	0.9526	2.2651	45.60618
18.8	53.3	0.72	-1.26	1.71	53.2846	1.3512	5	2.22487	117.5643	1.13322	0	1.1332	46.021	1.3806	-0.002	5	0.7631	0.949	2.2561	46.77424
18.9	53.8	0.77	-1.22	1.71	53.7851	1.4316	5	2.23699	118.0784	1.13912	0	1.1391	46.216	1.4626	-0.002	5	0.7685	0.9449	2.2695	47.01221
19	52.6	0.87	-1.22	1.71	52.5851	1.6545	5	2.28378	118.9167	1.14507	0	1.1451	44.923	1.6913	-0.002	5	0.7874	0.9397	2.3183	45.6838
19.1	49.8	0.98	-1.26	1.71	49.7846	1.9685	5	2.35018	119.6544	1.15105	0	1.1511	42.251	2.0151	-0.002	5	0.814	0.9338	2.3873	42.91829
19.2	46.4	1.04	-1.32	1.72	46.3838	2.2422	5	2.41022	119.9167	1.15705	0	1.1571	39.088	2.2995	-0.002	5	0.8383	0.9278	2.4505	39.65711
19.3	41.9	1.05	-1.51	1.73	41.8815	2.5071	4	2.47548	119.7376	1.16303	0	1.163	35.011	2.5787	-0.003	4	0.865	0.9215	2.5197	35.46037
19.4	38.6	1.03	-1.64	1.72	38.5799	2.6698	4	2.52032	119.3966	1.169	0	1.169	32.002	2.7532	-0.003	4	0.8838	0.9157	2.5682	32.37532
19.5	39.2	0.95	-1.54	1.72	39.1812	2.4246	4	2.48805	118.8428	1.17495	0	1.175	32.347	2.4996	-0.003	4	0.8722	0.9127	2.5371	32.78313
19.6	40.3	0.87	-1.41	1.72	40.2827	2.1597	5	2.44664	118.2667	1.18086	0	1.1809	33.113	2.225	-0.003	4	0.857	0.9102	2.4965	33.63692
19.7	40.6	0.9	-1.41	1.72	40.5827	2.2177	5	2.45148	118.5329	1.18679	0	1.1868	33.195	2.2845	-0.003	4	0.8597	0.9061	2.5027	33.73451
19.8	40.1	0.92	-1.45	1.72	40.0823	2.2953	5	2.46518	118.6634	1.19272	0	1.1927	32.606	2.3657	-0.003	4	0.8659	0.9015	2.5184	33.13365
19.9	39.4	0.88	-1.38	1.71	39.3831	2.2345	5	2.4636	118.2953	1.19863	0	1.1986	31.857	2.3046	-0.003	4	0.8664	0.8976	2.5188	32.39203
20	40.2	0.9	-1.32	1.7	40.1838	2.2397	5	2.45752	118.5088	1.20456	0	1.2046	32.36	2.3089	-0.002	4	0.8647	0.894	2.5138	32.93235
20.1	43.4	0.96	-1.47	1.69	43.382	2.2129	5	2.42866	119.1678	1.21052	0	1.2105	34.838	2.2764	-0.003	4	0.8538	0.8915	2.4843	35.52985
20.2	46.5	0.92	-1.46	1.69	46.4821	1.9793	5	2.37457	119.0247	1.21647	0	1.2165	37.211	2.0325	-0.002	5	0.8333	0.8903	2.4298	38.08596
20.3	49	0.76	-1.33	1.69	48.9837	1.5515	5	2.2905	117.7546	1.22236	0	1.2224	39.073	1.5912	-0.002	5	0.8015	0.8908	2.3457	40.20837
20.4	53.9	0.77	-1.36	1.69	53.8834	1.429	5	2.23588	118.0828	1.22826	0	1.2283	42.87	1.4624	-0.002	5	0.7806	0.8901	2.29	44.29529
20.5	60	0.76	-1.38	1.69	59.9831	1.267	5	2.16706	118.2487	1.23417	0	1.2342	47.602	1.2936	-0.002	5	0.7542	0.8904	2.2198	49.43742
20.6	63.4	0.77	-1.37	1.69	63.3832	1.2148	5	2.13694	118.4788	1.2401	0	1.2401	50.111	1.2391	-0.002	5	0.743	0.8888	2.1897	52.19767
20.7	66.6	0.84	-1.36	1.69	66.5834	1.2616	5	2.13017	119.2356	1.24606	0	1.2461	52.435	1.2856	-0.002	5	0.7408	0.8859	2.1832	54.70518
20.8	67.8	1	-1.33	1.69	67.7837	1.4753	5	2.167	120.555	1.25209	0	1.2521	53.137	1.503	-0.001	5	0.7555	0.8806	2.2211	55.36907
20.9	61.4	1.25	-1.32	1.69	61.3838	2.0364	5	2.29117	121.9458	1.25818	0	1.2582	47.788	2.079	-0.002	5	0.8046	0.8699	2.3493	49.4323
21	49.1	1.44	-1.26	1.7	49.0846	2.9337	4	2.46988	122.4358	1.26431	0	1.2643	37.823	3.0113	-0.002	4	0.8759	0.8556	2.5358	38.66813

21.1	37.6	1.41	-1.26	1.71	37.5846	3.7515	4	2.6275	121.6307	1.27039	0	1.2704	28.585	3.8828	-0.003	4	0.9401	0.8421	2.7036	28.89972
21.2	30	1.19	-1.26	1.71	29.9846	3.9687	4	2.71631	119.8384	1.27638	0	1.2764	22.492	4.1452	-0.003	3	0.9781	0.8324	2.8027	22.58431
21.3	23.6	1.03	-1.18	1.71	23.5856	4.3671	3	2.82183	118.1964	1.28229	0	1.2823	17.393	4.6182	-0.004	3	1	0.8252	2.9193	17.39331
21.4	20.3	0.87	-1.15	1.72	20.2859	4.2887	3	2.86628	116.5936	1.28812	0	1.2881	14.748	4.5795	-0.004	3	1	0.8214	2.9721	14.74848
21.5	24.2	0.73	-1.07	1.73	24.1869	3.0182	4	2.71021	115.7388	1.29391	0	1.2939	17.693	3.1888	-0.003	4	0.9822	0.8207	2.8111	17.7565
21.6	37.3	0.76	-0.91	1.75	37.2889	2.0381	5	2.45689	117.0893	1.29976	0	1.2998	27.689	2.1118	-0.002	4	0.8794	0.8345	2.5405	28.3844
21.7	51.5	1.08	-1.28	1.75	51.4843	2.0977	5	2.35702	120.4473	1.30578	0	1.3058	38.428	2.1523	-0.002	5	0.8381	0.8384	2.4312	39.75908
21.8	53.1	1.5	-1.33	1.77	53.0837	2.8257	5	2.43394	122.9255	1.31193	0	1.3119	39.462	2.8973	-0.002	4	0.868	0.8298	2.5088	40.59884
21.9	43.1	1.38	-1.25	1.75	43.0847	3.203	4	2.5373	121.8064	1.31802	0	1.318	31.689	3.3041	-0.002	4	0.9108	0.8187	2.6207	32.31566
22	34.2	1.28	-1.18	1.75	34.1856	3.7443	4	2.65715	120.6917	1.32405	0	1.3241	24.819	3.8951	-0.003	4	0.9608	0.8062	2.7511	25.03809
22.1	41	1.29	-1.06	1.77	40.987	3.1473	4	2.5481	121.1912	1.33011	0	1.3301	29.815	3.2529	-0.002	4	0.9174	0.8107	2.6364	30.38366
22.2	66.1	1.33	-0.86	1.77	66.0895	2.0124	5	2.26392	122.5799	1.33624	0	1.3362	48.459	2.054	-1E-03	5	0.8038	0.829	2.3373	50.7293
22.3	82	1.41	-1.16	1.78	81.9858	1.7198	5	2.1488	123.533	1.34242	0	1.3424	60.073	1.7484	-0.001	5	0.7584	0.8349	2.2172	63.62849
22.4	74.8	1.53	-1.11	1.77	74.7864	2.0458	5	2.22941	123.9064	1.34861	0	1.3486	54.454	2.0834	-0.001	5	0.7909	0.8254	2.3019	57.28754
22.5	56	1.53	-1.18	1.77	55.9856	2.7329	5	2.40717	123.2002	1.35477	0	1.3548	40.325	2.8006	-0.002	4	0.8629	0.8079	2.4902	41.71427
22.6	42.4	1.44	-1.18	1.77	42.3856	3.3974	4	2.55995	122.0779	1.36088	0	1.3609	30.146	3.5101	-0.002	4	0.9258	0.7922	2.6547	30.71384
22.7	35.3	1.43	-1.15	1.78	35.2859	4.0526	4	2.67042	121.5798	1.36696	0	1.367	24.813	4.2159	-0.002	3	0.9717	0.7797	2.7744	24.99408
22.8	30.1	1.4	-1.11	1.79	30.0864	4.6533	3	2.76198	121.0359	1.37301	0	1.373	20.913	4.8758	-0.003	3	1	0.7707	2.8743	20.91275
22.9	26.2	1.35	-1.11	1.79	26.1864	5.1554	3	2.83642	120.4311	1.37903	0	1.379	17.989	5.4419	-0.003	3	1	0.7673	2.9549	17.98899
23	22.9	1.19	-1.26	1.77	22.8846	5.2	3	2.88206	119.1794	1.38499	0	1.385	15.523	5.535	-0.004	3	1	0.764	3.008	15.52328
23.1	21.1	0.98	-1.17	1.8	21.0857	4.6477	3	2.87627	117.5591	1.39087	0	1.3909	14.16	4.9759	-0.004	3	1	0.7608	3.0086	14.16009
23.2	20	0.82	-1.08	1.77	19.9868	4.1027	3	2.85882	116.1243	1.39667	0	1.3967	13.31	4.411	-0.004	3	1	0.7576	2.9966	13.31027
23.3	18.8	0.55	-1.07	1.77	18.7869	2.9276	4	2.7885	113.051	1.40233	0	1.4023	12.397	3.1637	-0.004	3	1	0.7545	2.9339	12.39695
23.4	17.6	0.59	-1.11	1.77	17.5864	3.3549	3	2.84727	113.4036	1.408	0	1.408	11.49	3.6468	-0.005	3	1	0.7515	2.997	11.49038
23.5	17.6	0.66	-1.11	1.77	17.5864	3.7529	3	2.87738	114.224	1.41371	0	1.4137	11.44	4.081	-0.005	3	1	0.7485	3.0278	11.43992
23.6	29.8	0.74	-1.2	1.75	29.7853	2.4845	4	2.58679	116.3462	1.41953	0	1.4195	19.983	2.6088	-0.003	4	0.9505	0.7563	2.7123	20.2751
23.7	53.3	0.77	-2.42	1.73	53.2704	1.4455	5	2.24285	118.0549	1.42543	0	1.4254	36.371	1.4852	-0.003	5	0.8103	0.7855	2.3429	38.48693
23.8	75	0.82	-3.86	1.72	74.9528	1.094	5	2.05151	119.3481	1.4314	0	1.4314	51.363	1.1153	-0.004	5	0.733	0.8013	2.14	55.67925
23.9	100.5	0.84	-4.79	1.72	100.441	0.8363	6	1.8796	120.2384	1.43741	0	1.4374	68.877	0.8485	-0.003	6	0.6644	0.8158	1.9593	76.3343
24	120.2	0.87	-3.99	1.73	120.151	0.7241	6	1.77978	120.9321	1.44345	0	1.4435	82.239	0.7329	-0.002	6	0.6249	0.8236	1.8548	92.39833
24.1	136	1.01	-4.65	1.73	135.943	0.743	6	1.74442	122.3251	1.44957	0	1.4496	92.782	0.751	-0.002	6	0.6107	0.8251	1.8168	104.8763
24.2	147.6	1.16	-4.56	1.73	147.544	0.7862	6	1.73253	123.538	1.45575	0	1.4558	100.35	0.794	-0.002	6	0.606	0.8242	1.8036	113.7943
24.3	150.8	1.25	-4.37	1.72	150.747	0.8292	6	1.74045	124.1371	1.46195	0	1.462	102.11	0.8373	-0.002	6	0.6095	0.8212	1.812	115.8543
24.4	152.1	1.33	-4.59	1.7	152.044	0.8748	6	1.75294	124.6119	1.46818	0	1.4682	102.56	0.8833	-0.002	6	0.6148	0.8176	1.8253	116.3492
24.5	154.9	1.42	-4.97	1.72	154.839	0.9171	6	1.76074	125.1355	1.47444	0	1.4744	104.02	0.9259	-0.002	6	0.6183	0.8145	1.8336	118.0593
24.6	156.4	1.49	-5.18	1.73	156.337	0.9531	6	1.76893	125.511	1.48072	0	1.4807	104.58	0.9622	-0.002	6	0.622	0.8114	1.8425	118.7467
24.7	159.1	1.17	-5.25	1.73	159.036	0.7357	6	1.68903	123.7838	1.48691	0	1.4869	105.96	0.7426	-0.002	6	0.5919	0.8176	1.7626	121.7411
24.8	163.3	1.25	-5.63	1.75	163.231	0.7658	6	1.69171	124.3312	1.49312	0	1.4931	108.32	0.7729	-0.003	6	0.5933	0.8152	1.7655	124.61
24.9	166.8	1.3	-5.99	1.77	166.727	0.7797	6	1.68989	124.6699	1.49936	0	1.4994	110.2	0.7868	-0.003	6	0.593	0.8133	1.764	126.9964
25	154.8	1.33	-4.71	1.76	154.742	0.8595	6	1.74215	124.6549	1.50559	0	1.5056	101.78	0.8679	-0.002	6	0.6145	0.8052	1.8197	116.6026
25.1	144.1	1.35	-3.07	1.77	144.062	0.9371	6	1.7903	124.5896	1.51182	0	1.5118	94.291	0.947	-0.002	6	0.6344	0.7974	1.8713	107.4291
25.2	144.6	1.33	-4.02	1.79	144.551	0.9201	6	1.78392	124.4887	1.51804	0	1.518	94.222	0.9299	-0.002	6	0.6326	0.7959	1.8657	107.5825
25.3	133.5	1.27	-4.25	1.79	133.448	0.9517	6	1.81965	123.956	1.52424	0	1.5242	86.55	0.9627	-0.002	6	0.6479	0.7894	1.9052	98.41943
25.4	120.6	1.28	-4.27	1.8	120.548	1.0618	6	1.88421	123.7654	1.53043	0	1.5304	77.767	1.0755	-0.003	6	0.6746	0.7796	1.9744	87.69027
25.5	112.2	1.38	-4.4	1.81	112.146	1.2305	6	1.95029	124.1396	1.53664	0	1.5366	71.982	1.2476	-0.003	5	0.7016	0.7697	2.0444	80.46044
25.6	104.9	1.46	-4.57	1.85	104.844	1.3925	6	2.00814	124.3878	1.54286	0	1.5429	66.955	1.4133	-0.003	5	0.7253	0.7607	2.106	74.26315
25.7	109.1	1.47	-5.01	1.83	109.039	1.3482	6	1.98607	124.5334	1.54908	0	1.5491	69.389	1.3676	-0.003	5	0.717	0.7609	2.0835	77.29206
25.8	116.8	1.42	-6.52	1.83	116.72	1.2166	6	1.93412	124.4462	1.5553	0	1.5553	74.047	1.233	-0.004	6	0.6969	0.7646	2.0299	83.21574
25.9	131	1.41	-7.77	1.83	130.905	1.0771	6	1.86169	124.6742	1.56154	0	1.5615	82.831	1.0901	-0.004	6	0.6683	0.771	1.9541	94.24311
26	137.5	1.35	-8.38	1.84	137.397	0.9826	6	1.81935	124.4741	1.56776	0	1.5678	86.639	0.9939	-0.004	6	0.6522	0.7738	1.9108	99.3365
26.1	138.2	1.22	-8.55	1.83	138.095	0.8835	6	1.78724	123.7456	1.57395	0	1.574	86.738	0.8936	-0.005	6	0.6405	0.7754	1.8793	100.0504
26.2	137.9	1.13	-8.57	1.85	137.795	0.8201	6	1.76704	123.1796	1.58011	0	1.5801	86.206	0.8296	-0.005	6	0.6334	0.7757	1.86	99.8588
26.3	137.6	0.88	-8.53	1.86	137.496	0.64	6	1.70072	121.3446	1.58618	0	1.5862	85.684	0.6475	-0.005	6	0.6086	0.7816	1.7942	100.3947
26.4	135.6	0.85	-8.56	1.85	135.495	0.6273	6	1.70059	121.0551	1.59223	0	1.5922	84.098	0.6348	-0.005	6	0.6094	0.7796	1.7956	98.65175
26.5	126.2	0.95	-8.72	1.85	126.093	0.7534	6	1.77377	121.6935	1.59831	0	1.5983	77.891	0.7631	-0.005	6	0.6391	0.7683	1.8728	90.39271
26.6	108.2	1.04	-8.79	1.86	108.092	0.9621	6	1.89249	121.9801	1.60441	0	1.6044	66.372	0.9766	-0.006	6	0.6875	0.7511	1.9991	75.59213
26.7	95	1.1	-8.68	1.85	94.8938	1.1592	6	1.98777	122.0729	1.61052	0	1.6105	57.921	1.1792	-0.007	5	0.7267	0.7369	2.1012	64.9682
26.8	80.4	1.13	-8.77	1.86	80.2927	1.4074	5	2.09766	121.8623	1.61661	0	1.6166	48.667	1.4363	-0.008	5	0.7722	0.7209	2.2197	53.60183
26.9	71.2	1.14	-8.64	1.85	71.0943	1.6035	5	2.17469	121.63	1.62269	0	1.6227	42.813	1.641	-0.009	5	0.8044	0.709	2.3037	46.54689
27	72.1	1.01	-8.72	1.85	71.9933	1.4029	5	2.13291	120.7747	1.62873	0	1.6287	43.202	1.4354	-0.009	5	0.7889	0.7116	2.2623	47.31977
27.1	66.6	0.89	-9.41	1.85	66.4848	1.3387	5	2.14673	119.6551	1.63471	0	1.6347	39.671	1.3724	-0.01	5	0.7963	0.7072	2.281	43.34551
27.2	58.6	1.09	-10.12	1.85	58.4761	1.864	5	2.28164	120.8253	1.64075	0	1.6408	34.64	1.9178	-0.013	5	0.8516	0.6883	2.4242	36.96987
27.3	52.8	1.24	-10.38	1.85	52.673	2.3542	5	2.3827	121.5138	1.64683	0	1.6468	30.984	2.4301	-0.015	4	0.893	0.6737	2.5324	32.48659
27.4	48.5	1.35	-10.34	1.86	48.3734	2.7908	4	2.45977	121.928	1.65292	0	1.6529	28.265	2.8895	-0.016	4	0.9249	0.6619	2.6157	29.22794
27.5	45.1	1.34	-10.34	1.86	44.9734	2.9795	4	2.50231	121.6958	1.65901	0	1.659	26.109	3.0937	-0.017	4	0.9435	0.6542	2.6639	26.78047
27.6	52	1.23	-10.41	1.85	51.8726	2.3712	5	2.38974	121.4172	1.66508	0	1.6651	30.153	2.4498	-0.015	4	0.8983	0.6655	2.5442	31.57563
27.7	67.2	1.05	-10.51	1.87	67.0714	1.5655	5	2.18711	120.8862	1.67112	0	1.6711	39.135	1.6055	-0.012	5	0.8161	0.6887	2.3284	42.56635
27.8	76.9	0.85	-10.71	1.89	76.7689	1.1072	6	2.04653	119.6694	1.67711	0	1.6771	44.775	1.132	-0.01	5	0.7605	0.7045	2.1816	49.99676
27.9	79.5	0.7	-10.82	1.89	79.3676	0.882	6	1.97534	118.33	1.68302	0	1.683	46.158	0.9011	-0.01	5	0.7333	0.7115	2.1094	52.24025
28	77.7	0.65	-10.75	1.89	77.5684	0.838	6	1.97041	117.7318	1.68891	0	1.6889	44.928	0.8566	-0.01	5	0.7325	0.71	2.1066	50.91489
28.1	73.7	0.65	-10.75	1.89	73.5684	0.8835	6	2.00248	117.6027	1.69479	0	1.6948	42.409	0.9044	-0.011	5	0.7464	0.7035	2.1425	47.78896

28.2	68.1	0.69	-10.83	1.89	67.9674	1.0152	5	2.06577	117.8465	1.70068	0	1.7007	38.965	1.0413	-0.012	5	0.7729	0.693	2.2113	43.39831
28.3	64.8	0.74	-10.77	1.9	64.6682	1.1443	5	2.11423	118.237	1.7066	0	1.7066	36.893	1.1753	-0.012	5	0.7932	0.6844	2.2638	40.72677
28.4	60.4	0.77	-10.68	1.89	60.2693	1.2776	5	2.16763	118.356	1.71251	0	1.7125	34.193	1.315	-0.013	5	0.8158	0.6752	2.3224	37.36477
28.5	66.2	0.72	-10.86	1.88	66.0671	1.0898	5	2.09404	118.0887	1.71842	0	1.7184	37.446	1.1189	-0.012	5	0.7865	0.6829	2.2446	41.53189
28.6	69.5	0.65	-11.36	1.87	69.361	0.9371	6	2.03818	117.459	1.72429	0	1.7243	39.226	0.961	-0.012	5	0.7648	0.6883	2.187	44.00042
28.7	70.5	0.64	-11.33	1.87	70.3613	0.9096	6	2.02557	117.3805	1.73016	0.00312	1.727	39.739	0.9325	-0.012	5	0.76	0.6891	2.1741	44.69745
28.8	69.4	0.69	-10.91	1.87	69.2665	0.9962	6	2.05428	117.8927	1.73605	0.00624	1.7298	39.039	1.0218	-0.012	5	0.7717	0.6843	2.2044	43.67567
28.9	67	0.75	-10.76	1.87	66.8683	1.1216	5	2.0974	118.4168	1.74198	0.00936	1.7326	37.588	1.1516	-0.012	5	0.7893	0.6776	2.2502	41.70484
29	64.2	0.78	-10.82	1.87	64.0676	1.2175	5	2.13382	118.5995	1.74791	0.01248	1.7354	35.91	1.2516	-0.013	5	0.8045	0.6717	2.2898	39.55821
29.1	62.8	0.78	-10.83	1.85	62.6674	1.2447	5	2.14728	118.5456	1.75383	0.0156	1.7382	35.043	1.2805	-0.013	5	0.8104	0.6688	2.3051	38.5012
29.2	62.3	0.81	-10.89	1.86	62.1667	1.303	5	2.16225	118.8021	1.75977	0.01872	1.7411	34.696	1.3409	-0.013	5	0.8167	0.6658	2.3212	38.012
29.3	63	0.84	-10.96	1.85	62.8659	1.3362	5	2.16522	119.0955	1.76573	0.02184	1.7439	35.037	1.3748	-0.013	5	0.818	0.6645	2.3242	38.37283
29.4	64.5	0.71	-10.98	1.85	64.3656	1.1031	5	2.10626	117.9228	1.77162	0.02496	1.7467	35.836	1.1343	-0.013	5	0.7952	0.6713	2.2641	39.71033
29.5	67.9	0.79	-11.03	1.85	67.765	1.1658	5	2.10302	118.8295	1.77757	0.02808	1.7495	37.718	1.1972	-0.012	5	0.7933	0.6711	2.2586	41.85003
29.6	69	0.84	-11.24	1.86	68.8624	1.2198	5	2.10964	119.3177	1.78353	0.0312	1.7523	38.28	1.2523	-0.013	5	0.7958	0.6693	2.265	42.43239
29.7	62.7	0.87	-11.16	1.85	62.5634	1.3906	5	2.17767	119.3405	1.7895	0.03432	1.7552	34.625	1.4315	-0.014	5	0.8243	0.6589	2.3393	37.84596
29.8	53.9	0.92	-11.64	1.85	53.7575	1.7114	5	2.28566	119.3794	1.79547	0.03744	1.758	29.557	1.7705	-0.017	5	0.8699	0.643	2.4574	31.57534
29.9	48.3	0.98	-11.93	1.86	48.154	2.0351	5	2.37056	119.5732	1.80145	0.04056	1.7609	26.323	2.1142	-0.019	4	0.9052	0.6306	2.5501	27.6256
30	47.1	1.08	-12.14	1.87	46.9514	2.3003	5	2.41348	120.2225	1.80746	0.04368	1.7638	25.595	2.3924	-0.02	4	0.9226	0.6241	2.5956	26.62797
30.1	47.7	1.13	-12.36	1.88	47.5487	2.3765	5	2.41866	120.5844	1.81349	0.0468	1.7667	25.888	2.4707	-0.02	4	0.9246	0.6225	2.6006	26.90719
30.2	48.4	1.17	-12.47	1.89	48.2474	2.425	5	2.41972	120.8745	1.81953	0.04992	1.7696	26.236	2.52	-0.02	4	0.9251	0.6214	2.6015	27.26665
30.3	47.4	1.15	-12.43	1.89	47.2479	2.434	5	2.42759	120.6973	1.82556	0.05304	1.7725	25.626	2.5318	-0.021	4	0.929	0.6192	2.6114	26.58202
30.4	47.1	1.18	-12.41	1.9	46.9481	2.5134	5	2.43891	120.8702	1.83161	0.05616	1.7755	25.411	2.6155	-0.021	4	0.9339	0.6167	2.6238	26.29634
30.5	45.2	1.24	-12.36	1.89	45.0487	2.7526	4	2.4786	121.1324	1.83766	0.05928	1.7784	24.298	2.8696	-0.022	4	0.9504	0.6105	2.6671	24.93165
30.6	38.3	1.25	-11.66	1.9	38.1573	3.2759	4	2.58278	120.7862	1.8437	0.0624	1.7813	20.386	3.4422	-0.025	4	0.9952	0.5955	2.7839	20.43726
30.7	30.2	1.13	-10.69	1.9	30.0692	3.758	4	2.69959	119.4668	1.84968	0.06552	1.7842	15.817	4.0043	-0.03	3	1	0.5931	2.9118	15.8167
30.8	24.2	0.97	-10.12	1.9	24.0761	4.0289	3	2.7921	117.8075	1.85557	0.06864	1.7869	12.435	4.3653	-0.036	3	1	0.5921	3.017	12.43507
30.9	20.2	0.84	-10	1.91	20.0776	4.1838	3	2.86277	116.3116	1.86138	0.07176	1.7896	10.179	4.6113	-0.043	3	1	0.5913	3.1003	10.1788
31	18.1	0.73	-10	1.92	17.9776	4.0606	3	2.89144	115.0152	1.86713	0.07488	1.7923	8.9889	4.5312	-0.049	3	1	0.5904	3.1388	8.98894
31.1	17.8	0.65	-10	1.92	17.6776	3.677	3	2.8701	114.1249	1.87284	0.078	1.7948	8.8057	4.1127	-0.05	3	1	0.5895	3.121	8.80566
31.2	18.1	0.64	-10	1.91	17.9776	3.56	3	2.85565	114.0525	1.87854	0.08112	1.7974	8.9567	3.9754	-0.05	3	1	0.5887	3.1064	8.95674
31.3	18.2	0.68	-10	1.92	18.0776	3.7616	3	2.86867	114.5096	1.88427	0.08424	1.8	8.9962	4.1993	-0.05	3	1	0.5878	3.1189	8.99615
31.4	19.8	0.71	-10	1.91	19.6776	3.6082	3	2.82864	115.0323	1.89002	0.08736	1.8027	9.8674	3.9916	-0.045	3	1	0.587	3.0735	9.86741
31.5	24.9	0.72	-10	1.92	24.7776	2.9059	4	2.69173	115.6967	1.8958	0.09048	1.8053	12.675	3.1466	-0.035	3	1	0.5861	2.9247	12.67461
31.6	33.5	0.82	-10.01	1.92	33.3775	2.4568	4	2.54527	117.375	1.90167	0.0936	1.8081	17.408	2.6052	-0.026	4	0.9881	0.589	2.7628	17.51955
31.7	38.9	0.97	-10.16	1.9	38.7756	2.5016	4	2.50027	118.9698	1.90762	0.09672	1.8109	20.359	2.631	-0.022	4	0.9671	0.5947	2.707	20.72212
31.8	37.8	1.11	-10.23	1.9	37.6748	2.9463	4	2.55621	119.8861	1.91362	0.09984	1.8138	19.716	3.1039	-0.023	4	0.9903	0.5864	2.7663	19.81944
31.9	36.9	1.22	-10.38	1.89	36.773	3.3177	4	2.59837	120.5184	1.91964	0.10296	1.8167	19.185	3.5004	-0.024	4	1	0.5824	2.8098	19.18514
32	37.1	1.24	-10.38	1.9	36.973	3.3538	4	2.59978	120.6506	1.92567	0.10608	1.8196	19.261	3.5381	-0.024	3	1	0.5815	2.8114	19.26103
32.1	34.3	1.24	-10.38	1.9	34.173	3.6286	4	2.64809	120.4585	1.9317	0.1092	1.8225	17.691	3.846	-0.027	3	1	0.5806	2.863	17.69069
32.2	30.3	1.25	-10.51	1.92	30.1714	4.143	4	2.72685	120.2135	1.93771	0.11232	1.8254	15.467	4.4273	-0.031	3	1	0.5797	2.9468	15.4672
32.3	27.2	1.09	-10.53	1.91	27.0711	4.0264	4	2.75359	118.9469	1.94366	0.11544	1.8282	13.744	4.3379	-0.035	3	1	0.5788	2.9811	13.74425
32.4	31.5	0.98	-10.59	1.92	31.3704	3.124	4	2.63292	118.528	1.94958	0.11856	1.831	16.068	3.331	-0.03	3	1	0.5779	2.857	16.06796
32.5	36.5	1.11	-10.54	1.91	36.371	3.0519	4	2.5778	119.8002	1.95557	0.12168	1.8339	18.766	3.2253	-0.026	4	1	0.577	2.7952	18.76633
32.6	41.4	1.22	-10.66	1.92	41.2695	2.9562	4	2.52761	120.7997	1.96161	0.1248	1.8368	21.4	3.1037	-0.023	4	0.9794	0.5826	2.7363	21.64435
32.7	56.8	1.25	-10.32	1.94	56.6737	2.2056	5	2.34013	121.7511	1.9677	0.12792	1.8398	29.735	2.2849	-0.016	4	0.9001	0.6078	2.5268	31.42432
32.8	68.2	1.17	-10.59	1.94	68.0704	1.7188	5	2.20873	121.714	1.97379	0.13104	1.8428	35.869	1.7701	-0.014	5	0.8453	0.6257	2.3837	39.08245
32.9	80.3	1.09	-10.96	1.94	80.1659	1.3597	5	2.08845	121.5947	1.97987	0.13416	1.8457	42.361	1.3941	-0.012	5	0.7959	0.6422	2.2536	47.45477
33	89.8	1.03	-11.28	1.94	89.6619	1.1488	6	2.00412	121.4535	1.98594	0.13728	1.8487	47.427	1.1748	-0.011	5	0.7615	0.6538	2.163	54.17661
33.1	94.6	0.99	-11.28	1.98	94.4619	1.048	6	1.96131	121.2909	1.992	0.1404	1.8516	49.94	1.0706	-0.01	5	0.7444	0.6593	2.1175	57.62081
33.2	92.4	1.01	-11.35	1.97	92.2611	1.0947	6	1.98122	121.3797	1.99807	0.14352	1.8546	48.671	1.119	-0.011	5	0.7528	0.6554	2.1394	55.91252
33.3	85.5	1.09	-11.36	1.98	85.361	1.2769	5	2.05001	121.7479	2.00416	0.14664	1.8575	44.875	1.3076	-0.012	5	0.7812	0.6443	2.2135	50.75509
33.4	77	1.22	-11.43	1.98	76.8601	1.5873	5	2.1463	122.3164	2.01027	0.14976	1.8605	40.231	1.6299	-0.013	5	0.8208	0.6292	2.3171	44.51216
33.5	64.8	1.49	-11.43	2	64.6601	2.3044	5	2.31084	123.3577	2.01644	0.15288	1.8636	33.615	2.3785	-0.016	4	0.8888	0.6047	2.4939	35.79888
33.6	50	1.7	-11.22	2	49.8627	3.4094	4	2.51002	123.6887	2.02263	0.156	1.8666	25.629	3.5535	-0.02	4	0.9716	0.5761	2.7121	26.04515
33.7	41.9	1.59	-11.28	2	41.7619	3.8073	4	2.59868	122.7668	2.02877	0.15912	1.8697	21.252	4.0017	-0.024	3	1	0.5659	2.8127	21.25171
33.8	38.4	1.46	-11.25	2	38.2623	3.8158	4	2.62688	121.9292	2.03486	0.16224	1.8726	19.346	4.0301	-0.027	3	1	0.565	2.8459	19.34584
33.9	41.6	1.4	-11.2	2.01	41.4629	3.3765	4	2.56511	121.8181	2.04095	0.16536	1.8756	21.018	3.5513	-0.025	4	0.999	0.5645	2.7829	21.03058
34	51.5	1.33	-11.2	2.03	51.3629	2.5894	5	2.41859	121.965	2.04705	0.16848	1.8786	26.252	2.6969	-0.02	4	0.9376	0.5838	2.6206	27.21001
34.1	62.7	1.22	-11.26	2.06	62.5622	1.9501	5	2.27249	121.8144	2.05314	0.1716	1.8815	32.159	2.0162	-0.016	5	0.8772	0.6036	2.4611	34.51438
34.2	71.4	1.12	-11.42	2.08	71.2602	1.5717	5	2.16823	121.5062	2.05922	0.17472	1.8845	36.721	1.6185	-0.014	5	0.8338	0.618	2.3483	40.4174
34.3	76.9	1.26	-11.63	2.08	76.7577	1.6415	5	2.15642	122.5492	2.06534	0.17784	1.8875	39.572	1.6869	-0.014	5	0.828	0.6193	2.3325	43.71532
34.4	72.7	1.58	-11.73	2.08	72.5564	2.1776	5	2.25761	124.0679	2.07155	0.18096	1.8906	37.282	2.2416	-0.015	5	0.8691	0.6039	2.4386	40.22473
34.5	62.9	1.7	-11.72	2.08	62.7566	2.7089	5	2.36877	124.2496	2.07776	0.18408	1.8937	32.043	2.8016	-0.017	4	0.9154	0.587	2.5603	33.6606
34.6	54.2	1.7	-11.66	2.1	54.0573	3.1448	4	2.46041	123.8857	2.08395	0.1872	1.8968	27.401	3.2709	-0.02	4	0.9545	0.5729	2.6631	28.1384
34.7	53.5	1.69	-11.63	2.1	53.3577	3.1673	4	2.46663	123.8107	2.09015	0.19032	1.8998	26.985	3.2964	-0.02	4	0.9576	0.5709	2.671	27.66308
34.8	60	1.85	-11.6	2.1	59.858	3.0907	5	2.42358	124.753	2.09638	0.19344	1.9029	30.354	3.2028	-0.018	4	0.9386	0.5764	2.6205	31.46723
34.9	70.9	2.09	-11.74	2.1	70.7563	2.9538	5	2.35853	126.0535	2.10269	0.19656	1.9061	36.017	3.0443	-0.015	4	0.9101	0.5853	2.5448	37.97521
35	74	2.15	-12.26	2.12	73.8499	2.9113	5	2.34107	126.3649	2.109	0.19968	1.9093	37.574	2.9969	-0.015	4	0.9028	0.5869	2.5251	39.79339
35.1	63.4	2.12	-12.26	2.12	63.2499	3.3518	4	2.43184	125.8842	2.1153	0.2028	1.9125	31.966	3.4678	-0.018	4	0.9416	0.5727	2.6271	33.09079
35.2	85	1.95	-12.32	2.15	84.8492	2.2982	5	2.22548	125.9891	2.1216	0.20592	1.9157	43.185	2.3571	-0.013	5	0.8562	0.6016	2.4015	47.03222

35.3	120.8	1.69	-12.33	2.16	120.649	1.4008	6	1.96559	125.8006	2.12789	0.20904	1.9189	61.767	1.4259	-0.009	5	0.7484	0.6405	2.1199	71.74416
35.4	131.9	1.37	-12.33	2.17	131.749	1.0399	6	1.84936	124.4793	2.13411	0.21216	1.922	67.439	1.057	-0.008	6	0.7023	0.6576	1.9984	80.55101
35.5	137.8	1.37	-12.33	2.18	137.649	0.9953	6	1.82249	124.5862	2.14034	0.21528	1.9251	70.392	1.011	-0.008	6	0.6915	0.6611	1.9694	84.66783
35.6	137.8	1.37	-12.33	2.18	137.649	0.9953	6	1.82249	124.5862	2.14657	0.2184	1.9282	70.275	1.0111	-0.008	6	0.6918	0.6603	1.9699	84.55283
35.7	154.8	1.52	-12.2	2.2	154.651	0.9829	6	1.78147	125.6305	2.15285	0.22152	1.9313	78.96	0.9967	-0.007	6	0.674	0.6666	1.9228	96.07237
35.8	161.5	1.72	-12.12	2.2	161.352	1.066	6	1.79238	126.6384	2.15918	0.22464	1.9345	82.289	1.0805	-0.007	6	0.6777	0.6644	1.9321	99.95595
35.9	163.7	1.81	-12.11	2.2	163.552	1.1067	6	1.79955	127.0446	2.16554	0.22776	1.9378	83.284	1.1215	-0.007	6	0.6805	0.6625	1.9391	101.0467
36	162.8	1.84	-12.11	2.2	162.652	1.1313	6	1.80797	127.1514	2.17189	0.23088	1.941	82.678	1.1466	-0.007	6	0.6842	0.6603	1.9483	100.1419
36.1	161.8	1.81	-12.07	2.21	161.652	1.1197	6	1.80673	127.0161	2.17824	0.234	1.9442	82.024	1.135	-0.007	6	0.6841	0.6595	1.9479	99.40228
36.2	163.9	1.75	-12.07	2.22	163.752	1.0687	6	1.78855	126.8009	2.18458	0.23712	1.9475	82.963	1.0831	-0.007	6	0.6772	0.6616	1.9293	101.0184
36.3	167.9	1.72	-12.11	2.22	167.752	1.0253	6	1.76849	126.7333	2.19092	0.24024	1.9507	84.873	1.0389	-0.007	6	0.6694	0.664	1.9083	103.8978
36.4	171.4	1.73	-12.12	2.22	171.252	1.0102	6	1.75757	126.8261	2.19726	0.24336	1.9539	86.521	1.0233	-0.007	6	0.6651	0.665	1.8966	106.252
36.5	176.2	1.79	-12.17	2.22	176.051	1.0168	6	1.75094	127.1429	2.20362	0.24648	1.9571	88.827	1.0296	-0.006	6	0.6623	0.6654	1.8889	109.3306
36.6	179.9	1.89	-12.11	2.24	179.752	1.0515	6	1.75479	127.5914	2.21	0.2496	1.9604	90.564	1.0645	-0.006	6	0.6637	0.6641	1.8922	111.4357
36.7	176.8	2.06	-12.17	2.24	176.651	1.1661	6	1.79214	128.1792	2.21641	0.25272	1.9637	88.83	1.181	-0.006	6	0.6787	0.6573	1.9312	108.3526
36.8	162.9	2.15	-12.12	2.25	162.752	1.321	6	1.85584	128.2922	2.22282	0.25584	1.967	81.612	1.3393	-0.007	6	0.7052	0.6458	2.0003	97.98058
36.9	156.1	2.26	-12.11	2.26	155.952	1.4492	6	1.89776	128.5532	2.22925	0.25896	1.9703	78.02	1.4702	-0.007	5	0.7225	0.6382	2.0453	92.71184
37	165.4	2.45	-12.06	2.27	165.252	1.4826	6	1.88788	129.2851	2.23571	0.26208	1.9736	82.597	1.5029	-0.007	5	0.7178	0.6392	2.0327	98.48221
37.1	188.1	2.61	-12.03	2.28	187.953	1.3887	6	1.82927	130.062	2.24222	0.2652	1.977	93.935	1.4054	-0.006	6	0.693	0.6484	1.9672	113.8046
37.2	213.3	2.59	-12.03	2.28	213.153	1.2151	6	1.74962	130.3126	2.24873	0.26832	1.9804	106.49	1.2281	-0.005	6	0.6603	0.6611	1.8807	131.7693
37.3	236.5	2.43	-12.05	2.3	236.353	1.0281	6	1.66569	130.098	2.25524	0.27144	1.9838	118	1.038	-0.005	6	0.6263	0.6746	1.7911	149.2469
37.4	250.4	2.24	-12.11	2.3	250.252	0.8951	6	1.60463	129.6416	2.26172	0.27456	1.9872	124.8	0.9033	-0.005	6	0.6021	0.6843	1.727	160.3696
37.5	255.9	2.07	-12.1	2.3	255.752	0.8094	6	1.56642	129.1171	2.26818	0.27768	1.9905	127.35	0.8166	-0.005	6	0.5873	0.69	1.6877	165.2949
37.6	254.1	1.99	-12.04	2.3	253.953	0.7836	6	1.55847	128.8115	2.27462	0.2808	1.9938	126.23	0.7907	-0.005	6	0.5847	0.6905	1.6804	164.2277
37.7	249.8	1.9	-12.1	2.31	249.652	0.7611	6	1.55466	128.4312	2.28104	0.28392	1.9971	123.86	0.7681	-0.005	6	0.5838	0.6901	1.6779	161.3453
37.8	242.2	1.84	-12.04	2.32	242.053	0.7602	6	1.5638	128.121	2.28744	0.28704	2.0004	119.86	0.7674	-0.005	6	0.5883	0.6875	1.6891	155.7939
37.9	235.7	1.74	-12.03	2.33	235.553	0.7387	6	1.56353	127.6458	2.29383	0.29016	2.0037	116.42	0.746	-0.005	6	0.589	0.6866	1.6906	151.349
38	226.8	1.68	-11.93	2.33	226.654	0.7412	6	1.5766	127.2951	2.30019	0.29328	2.0069	111.79	0.7488	-0.005	6	0.5951	0.6832	1.7062	144.8648
38.1	220.2	1.64	-11.93	2.32	220.054	0.7453	6	1.58753	127.0467	2.30654	0.2964	2.0101	108.32	0.7532	-0.005	6	0.6002	0.6803	1.7192	140.005
38.2	215.1	1.63	-11.88	2.33	214.955	0.7583	6	1.6001	126.9448	2.31289	0.29952	2.0134	105.61	0.7666	-0.005	6	0.6058	0.6772	1.7336	136.0978
38.3	210.6	1.65	-11.81	2.33	210.455	0.784	6	1.61673	126.9824	2.31924	0.30264	2.0166	103.21	0.7928	-0.006	6	0.613	0.6735	1.7519	132.4738
38.4	205.6	1.64	-11.83	2.33	205.455	0.7982	6	1.62968	126.8793	2.32558	0.30576	2.0198	100.57	0.8074	-0.006	6	0.6188	0.6703	1.7667	128.6787
38.5	199.2	1.56	-11.84	2.34	199.055	0.7837	6	1.63422	126.4362	2.33191	0.30888	2.023	97.242	0.793	-0.006	6	0.6215	0.6685	1.7734	124.2791
38.6	194.8	1.51	-11.72	2.35	194.657	0.7757	6	1.63832	126.1433	2.33821	0.312	2.0262	94.915	0.7852	-0.006	6	0.6238	0.6668	1.7792	121.1919
38.7	194	1.45	-11.71	2.35	193.857	0.748	6	1.62897	125.8366	2.3445	0.31512	2.0294	94.37	0.7571	-0.006	6	0.6206	0.6675	1.7704	120.8172
38.8	193.5	1.37	-11.64	2.33	193.358	0.7085	6	1.61411	125.415	2.35078	0.31824	2.0325	93.975	0.7173	-0.006	6	0.6153	0.6692	1.756	120.8035
38.9	192	1.29	-11.54	2.34	191.859	0.6724	6	1.60167	124.9558	2.35702	0.32136	2.0357	93.091	0.6807	-0.006	6	0.611	0.6705	1.7442	120.0763
39	188.5	1.22	-11.55	2.35	188.359	0.6477	6	1.59719	124.5027	2.36325	0.32448	2.0388	91.229	0.6559	-0.006	6	0.61	0.6703	1.7412	117.8236
39.1	183.1	1.16	-11.48	2.35	182.959	0.634	6	1.60092	124.0627	2.36945	0.3276	2.0419	88.444	0.6423	-0.006	6	0.6123	0.6686	1.747	114.1167
39.2	177.7	1.1	-11.41	2.35	177.56	0.6195	6	1.60459	123.6011	2.37563	0.33072	2.0449	85.669	0.6279	-0.007	6	0.6147	0.667	1.7528	110.4274
39.3	173.2	1.06	-11.36	2.35	173.061	0.6125	6	1.61017	123.2674	2.38179	0.33384	2.048	83.341	0.6211	-0.007	6	0.6177	0.6651	1.7603	107.276
39.4	172.6	1.03	-11.35	2.35	172.461	0.5972	6	1.60451	123.0489	2.38795	0.33696	2.051	82.923	0.6056	-0.007	6	0.6159	0.6652	1.7552	106.9241
39.5	173.6	1.02	-11.28	2.37	173.462	0.588	6	1.59836	122.9916	2.3941	0.34008	2.054	83.285	0.5963	-0.007	6	0.6137	0.6656	1.7491	107.6079
39.6	173.5	1.01	-11.28	2.37	173.362	0.5826	6	1.59606	122.9181	2.40024	0.3432	2.057	83.11	0.5908	-0.007	6	0.6132	0.6652	1.7472	107.4845
39.7	174.3	1.02	-11.28	2.39	174.162	0.5857	6	1.5959	123.0014	2.40639	0.34632	2.0601	83.374	0.5939	-0.007	6	0.6133	0.6646	1.7472	107.8761
39.8	176.9	1.03	-11.28	2.38	176.762	0.5827	6	1.58949	123.109	2.41255	0.34944	2.0631	84.508	0.5908	-0.007	6	0.6108	0.6651	1.7403	109.5884
39.9	178.9	1.05	-11.28	2.39	178.762	0.5874	6	1.58781	123.2771	2.41871	0.35256	2.0662	85.349	0.5954	-0.007	6	0.6102	0.6647	1.7383	110.7855
40	179.2	1.06	-11.28	2.39	179.062	0.592	6	1.58936	123.3506	2.42488	0.35568	2.0692	85.365	0.6001	-0.007	6	0.6111	0.6638	1.7402	110.8065
40.1	179.7	1.07	-11.28	2.39	179.562	0.5959	6	1.5902	123.4261	2.43105	0.3588	2.0723	85.478	0.6041	-0.007	6	0.6116	0.6629	1.7413	110.974
40.2	179.5	1.08	-11.28	2.4	179.362	0.6021	6	1.59341	123.4914	2.43723	0.36192	2.0753	85.252	0.6104	-0.007	6	0.6132	0.6616	1.745	110.6284
40.3	177.6	1.1	-11.25	2.42	177.462	0.6199	6	1.60493	123.5997	2.44341	0.36504	2.0784	84.21	0.6285	-0.007	6	0.6182	0.6588	1.7577	108.9718
40.4	175.1	1.12	-11.17	2.43	174.963	0.6401	6	1.61855	123.697	2.44959	0.36816	2.0814	82.882	0.6492	-0.007	6	0.624	0.6556	1.7727	106.8899
40.5	172.5	1.14	-11.16	2.44	172.363	0.6614	6	1.63259	123.79	2.45578	0.37128	2.0845	81.51	0.671	-0.007	6	0.6301	0.6523	1.7882	104.7486
40.6	167.5	1.15	-11.19	2.45	167.363	0.6871	6	1.65301	123.7821	2.46197	0.3744	2.0876	78.992	0.6974	-0.007	6	0.6389	0.6478	1.811	100.9605
40.7	160.7	1.17	-11.13	2.45	160.564	0.7287	6	1.68318	123.8071	2.46816	0.37752	2.0906	75.621	0.7401	-0.007	6	0.6517	0.6416	1.8444	95.86022
40.8	154.2	1.19	-11.13	2.45	154.064	0.7724	6	1.71322	123.8303	2.47435	0.38064	2.0937	72.402	0.785	-0.008	6	0.6646	0.6354	1.8776	91.028
40.9	150	1.24	-11.12	2.45	149.864	0.8274	6	1.74176	124.064	2.48055	0.38376	2.0968	70.29	0.8413	-0.008	6	0.6765	0.6296	1.9086	87.69747
41	146.8	1.29	-11.05	2.45	146.665	0.8796	6	1.76625	124.3007	2.48677	0.38688	2.0999	68.66	0.8947	-0.008	6	0.6867	0.6246	1.9351	85.10559
41.1	144.4	1.32	-11.05	2.47	144.265	0.915	6	1.78296	124.4286	2.49299	0.39	2.103	67.414	0.9311	-0.008	6	0.6938	0.6209	1.9534	83.19196
41.2	146.9	1.33	-10.98	2.47	146.766	0.9062	6	1.7746	124.5258	2.49922	0.39312	2.1061	68.499	0.9219	-0.008	6	0.6905	0.6217	1.9444	84.7615
41.3	151.4	1.16	-10.98	2.49	151.266	0.7669	6	1.71729	123.5988	2.5054	0.39624	2.1092	70.531	0.7798	-0.008	6	0.6681	0.6307	1.8851	88.67488
41.4	147.4	1.33	-10.98	2.49	147.266	0.9031	6	1.77251	124.5341	2.51162	0.39936	2.1123	68.53	0.9188	-0.008	6	0.6903	0.6205	1.943	84.89087
41.5	132.7	1.75	-11.05	2.49	132.565	1.3201	6	1.91831	126.2856	2.51794	0.40248	2.1155	61.475	1.3457	-0.009	5	0.7492	0.5951	2.0972	73.14188
41.6	99.8	2.12	-11.05	2.49	99.6648	2.1271	5	2.15259	126.9933	2.52429	0.4056	2.1187	45.849	2.1824	-0.012	5	0.8467	0.5555	2.353	50.9991
41.7	60.3	2.25	-10.98	2.5	60.1656	3.7397	4	2.48115	126.1978	2.5306	0.40872	2.1219	27.162	3.9039	-0.021	4	0.9876	0.503	2.7225	27.39758
41.8	45.7	2.07	-10.98	2.51	45.5656	4.5429	4	2.62581	124.9097	2.53684	0.41184	2.125	20.249	4.8107	-0.028	3	1	0.4979	2.8809	20.2488
41.9	34.3	1.84	-10.96	2.51	34.1659	5.3855	3	2.76633	123.3457	2.54301	0.41496	2.1281	14.86	5.8186	-0.038	3	1	0.4972	3.0365	14.86001
42	28.1	1.54	-10.84	2.51	27.9673	5.5064	3	2.83528	121.5551	2.54909	0.41808	2.131	11.928	6.0586	-0.047	3	1	0.4965	3.1206	11.9278
42.1	25	1.16	-10.75	2.51	24.8684	4.6646	3	2.82363	119.1953	2.55505	0.4212	2.1339	10.457	5.1987	-0.054	3	1	0.4959	3.123	10.45687
42.2	23.7	0.83	-10.61	2.51	23.5701	3.5214	4	2.76132	116.6152	2.56088	0.42432	2.1366	9.8332	3.9506	-0.057	3	1	0.4952	3.072	9.83322
42.3	23.7	0.69	-10.54	2.51	23.571	2.9273	4	2.71067	115.2636	2.56664	0.42744	2.1392	9.8188	3.285	-0.056	3	1	0.4946	3.0259	9.81878

42.4	24.4	0.61	-10.4	2.54	24.2727	2.5131	4	2.65983	114.4334	2.57236	0.43056	2.1418	10.132	2.811	-0.054	3	1	0.494	2.9762	10.13181
42.5	24.5	0.7	-10.26	2.55	24.3744	2.8719	4	2.6941	115.4506	2.57814	0.43368	2.1445	10.164	3.2116	-0.054	3	1	0.4934	3.0079	10.16402
42.6	24.3	0.92	-10.17	2.55	24.1755	3.8055	4	2.77461	117.4303	2.58401	0.4368	2.1472	10.056	4.2609	-0.054	3	1	0.4928	3.0838	10.05563
42.7	28.3	0.91	-10.05	2.55	28.177	3.2296	4	2.67778	117.7239	2.58989	0.43992	2.15	11.901	3.5565	-0.045	3	1	0.4922	2.9782	11.90112
42.8	50.7	0.98	-9.82	2.56	50.5798	1.9375	5	2.34049	119.6931	2.59588	0.44304	2.1528	22.289	2.0424	-0.024	4	0.9436	0.5116	2.602	23.20062
42.9	80.8	1.15	-9.52	2.57	80.6835	1.4253	5	2.09966	122.0025	2.60198	0.44616	2.1558	36.219	1.4728	-0.014	5	0.8364	0.5514	2.3213	40.691
43	88.7	1.27	-9.55	2.57	88.5831	1.4337	5	2.07084	122.9566	2.60813	0.44928	2.1589	39.825	1.4772	-0.013	5	0.823	0.5561	2.2858	45.18076
43.1	87.2	1.3	-9.82	2.58	87.0798	1.4929	5	2.08809	123.0857	2.61428	0.4524	2.1619	39.07	1.5391	-0.014	5	0.8305	0.5525	2.305	44.10084
43.2	89.7	1.26	-10	2.59	89.5776	1.4066	5	2.06172	122.926	2.62043	0.45552	2.1649	40.167	1.449	-0.014	5	0.8199	0.556	2.2768	45.69386
43.3	90.7	1.34	-10.09	2.59	90.5765	1.4794	5	2.07275	123.4034	2.6266	0.45864	2.168	40.568	1.5236	-0.013	5	0.8242	0.5537	2.2877	46.021
43.4	96	1.54	-10.3	2.59	95.8739	1.6063	5	2.07885	124.5599	2.63282	0.46176	2.1711	42.947	1.6516	-0.013	5	0.8253	0.5526	2.2902	48.69351
43.5	103.3	1.78	-10.39	2.59	103.173	1.7253	5	2.07742	125.7986	2.63911	0.46488	2.1742	46.239	1.7706	-0.012	5	0.8231	0.5528	2.284	52.52255
43.6	95.5	1.91	-10.69	2.59	95.3692	2.0027	5	2.14731	126.1226	2.64542	0.468	2.1774	42.584	2.0599	-0.013	5	0.8524	0.5406	2.3607	47.36988
43.7	94	1.93	-10.74	2.61	93.8685	2.0561	5	2.16026	126.1601	2.65173	0.47112	2.1806	41.831	2.1158	-0.014	5	0.8582	0.5376	2.3755	46.3481
43.8	112.1	2.03	-10.68	2.61	111.969	1.813	5	2.06759	126.9598	2.65808	0.47424	2.1838	50.055	1.8571	-0.011	5	0.8181	0.5528	2.2698	57.1058
43.9	142.5	2.16	-10.76	2.61	142.368	1.5172	6	1.93946	127.9998	2.66448	0.47736	2.1871	63.876	1.5461	-0.009	5	0.763	0.5747	2.1246	75.87196
44	153.4	2.15	-10.9	2.61	153.267	1.4028	6	1.89271	128.1458	2.67088	0.48048	2.1904	68.752	1.4277	-0.008	5	0.7435	0.5822	2.073	82.8603
44.1	157	1.97	-10.9	2.61	156.867	1.2558	6	1.85121	127.5626	2.67726	0.4836	2.1937	70.289	1.2777	-0.008	6	0.7273	0.5885	2.03	85.75014
44.2	154.1	1.84	-10.9	2.63	153.967	1.1951	6	1.84167	127.0176	2.68361	0.48672	2.1969	68.862	1.2163	-0.008	6	0.7244	0.5891	2.0221	84.21985
44.3	148.5	1.76	-10.9	2.63	148.367	1.1863	6	1.85087	126.602	2.68994	0.48984	2.2001	66.214	1.2082	-0.009	6	0.7292	0.5864	2.0343	80.72839
44.4	145.6	1.65	-10.84	2.64	145.467	1.1343	6	1.8435	126.0816	2.69625	0.49296	2.2033	64.799	1.1557	-0.009	6	0.7272	0.5866	2.0287	79.15062
44.5	145.1	1.71	-10.83	2.66	144.967	1.1796	6	1.85638	126.3346	2.70256	0.49608	2.2065	64.476	1.202	-0.009	6	0.7326	0.5837	2.0423	78.47707
44.6	143.7	1.75	-10.83	2.67	143.567	1.2189	6	1.86934	126.4801	2.70889	0.4992	2.2097	63.746	1.2424	-0.009	5	0.7382	0.5807	2.0566	77.30171
44.7	143.7	1.78	-10.68	2.65	143.569	1.2398	6	1.8745	126.6045	2.71522	0.50232	2.2129	63.651	1.2637	-0.009	5	0.7405	0.5791	2.0622	77.08494
44.8	150.6	1.78	-10.68	2.67	150.469	1.183	6	1.84567	126.719	2.72155	0.50544	2.2161	66.67	1.2048	-0.009	6	0.7285	0.5836	2.0304	81.48805
44.9	158	1.77	-10.68	2.67	157.869	1.1212	6	1.81447	126.7949	2.72789	0.50856	2.2193	69.904	1.1409	-0.008	6	0.7156	0.5886	1.9961	86.29562
45	161.2	1.8	-10.68	2.67	161.069	1.1175	6	1.80726	126.9668	2.73424	0.51168	2.2226	71.24	1.1368	-0.008	6	0.7127	0.5892	1.988	88.1739
45.1	158	1.85	-10.83	2.69	157.867	1.1719	6	1.82796	127.1183	2.7406	0.5148	2.2258	69.695	1.1926	-0.008	6	0.7215	0.5848	2.0107	85.73533
45.2	157.6	1.89	-10.9	2.69	157.467	1.2003	6	1.83608	127.2686	2.74696	0.51792	2.229	69.411	1.2216	-0.008	6	0.725	0.5827	2.0195	85.19719
45.3	152.4	1.95	-10.9	2.69	152.267	1.2807	6	1.86634	127.4154	2.75333	0.52104	2.2323	66.977	1.3042	-0.009	5	0.7378	0.5765	2.0528	81.45992
45.4	148.5	1.98	-10.9	2.69	148.367	1.3345	6	1.887	127.4638	2.75971	0.52416	2.2356	65.133	1.3598	-0.009	5	0.7467	0.572	2.0759	78.71797
45.5	156.9	1.89	-10.9	2.69	156.767	1.2056	6	1.83882	127.2577	2.76607	0.52728	2.2388	68.787	1.2273	-0.009	6	0.7271	0.5799	2.0239	84.39718
45.6	172.3	1.67	-10.97	2.69	172.166	0.97	6	1.74365	126.5808	2.7724	0.5304	2.242	75.555	0.9859	-0.008	6	0.6885	0.5963	1.922	95.46745
45.7	189.1	1.67	-11.18	2.7	188.963	0.8838	6	1.68649	126.8078	2.77874	0.53352	2.2452	82.925	0.897	-0.007	6	0.6644	0.6066	1.8585	106.7385
45.8	197.4	1.82	-11.39	2.71	197.261	0.9226	6	1.68614	127.542	2.78511	0.53664	2.2485	86.492	0.9359	-0.007	6	0.6635	0.6064	1.8557	111.4605
45.9	200.3	2.05	-11.43	2.71	200.16	1.0242	6	1.7139	128.4483	2.79154	0.53976	2.2518	87.65	1.0387	-0.007	6	0.6741	0.601	1.8832	112.1068
46	209	2.27	-11.49	2.72	208.859	1.0869	6	1.71983	129.298	2.798	0.54288	2.2551	91.375	1.1016	-0.007	6	0.6757	0.5997	1.8868	116.7922
46.1	224.1	2.35	-11.56	2.74	223.959	1.0493	6	1.68802	129.7217	2.80449	0.546	2.2585	97.921	1.0626	-0.006	6	0.662	0.6054	1.8505	126.5232
46.2	229.9	2.39	-11.69	2.74	229.757	1.0402	6	1.67773	129.9075	2.81098	0.54912	2.2619	100.34	1.0531	-0.006	6	0.6578	0.6067	1.8389	130.1302
46.3	215.9	2.56	-11.79	2.74	215.756	1.1865	6	1.73841	130.2569	2.8175	0.55224	2.2653	94.002	1.2022	-0.007	6	0.683	0.5946	1.9047	119.6599
46.4	177.7	2.72	-11.81	2.74	177.555	1.5319	6	1.87755	130.2252	2.82401	0.55536	2.2687	77.02	1.5567	-0.008	5	0.7417	0.568	2.0586	93.79029
46.5	125.1	2.89	-11.81	2.74	124.955	2.3128	5	2.11265	129.8119	2.8305	0.55848	2.272	53.752	2.3664	-0.012	5	0.8418	0.5256	2.3211	60.65865
46.6	84.6	2.88	-11.81	2.76	84.4555	3.4101	5	2.3517	128.8311	2.83694	0.5616	2.2753	35.871	3.5286	-0.017	4	0.9459	0.4847	2.5931	37.38768
46.7	58	2.46	-11.76	2.76	57.8561	4.2519	4	2.53332	126.7552	2.84328	0.56472	2.2786	24.144	4.4717	-0.026	3	1	0.4644	2.8027	24.14369
46.8	42.5	2.03	-11.73	2.76	42.3564	4.7927	4	2.66461	124.5888	2.84951	0.56784	2.2817	17.315	5.1383	-0.036	3	1	0.4637	2.9509	17.31494
46.9	34.5	1.56	-11.73	2.75	34.3564	4.5406	4	2.71282	122.1513	2.85561	0.57096	2.2847	13.788	4.9523	-0.045	3	1	0.4631	3.0162	13.788
47	29.3	1.12	-11.68	2.76	29.157	3.8413	4	2.71591	119.3266	2.86158	0.57408	2.2875	11.495	4.2593	-0.054	3	1	0.4626	3.0374	11.49528
47.1	25.6	0.78	-11.66	2.75	25.4573	3.064	4	2.69706	116.3484	2.8674	0.5772	2.2902	9.8637	3.4529	-0.063	3	1	0.462	3.0367	9.86372
47.2	23	0.53	-11.6	2.74	22.858	2.3187	4	2.65957	113.2583	2.87306	0.58032	2.2927	8.7166	2.652	-0.071	3	1	0.4615	3.0167	8.71662
47.3	21.6	0.41	-11.58	2.74	21.4583	1.9107	4	2.63284	111.2258	2.87862	0.58344	2.2952	8.0951	2.2067	-0.076	3	1	0.461	3.0013	8.09506
47.4	20.6	0.33	-11.58	2.74	20.4583	1.613	4	2.60894	109.5211	2.8841	0.58656	2.2975	7.6491	1.8778	-0.081	3	1	0.4605	2.9867	7.64913
47.5	20.3	0.28	-11.53	2.74	20.1589	1.389	4	2.5794	108.283	2.88951	0.58968	2.2998	7.509	1.6214	-0.082	3	1	0.4601	2.9624	7.50896
47.6	20.4	0.32	-11.51	2.74	20.2591	1.5795	4	2.60752	109.2721	2.89498	0.5928	2.3022	7.5425	1.8429	-0.082	3	1	0.4596	2.9879	7.54249
47.7	22.3	0.39	-11.44	2.73	22.16	1.7599	4	2.6011	110.9383	2.90052	0.59592	2.3046	8.357	2.025	-0.074	3	1	0.4591	2.9702	8.35695
47.8	28.6	0.57	-10.9	2.73	28.4666	2.0024	4	2.54509	114.3259	2.90624	0.59904	2.3072	11.079	2.23	-0.054	4	1	0.4586	2.8884	11.07851
47.9	31.4	0.87	-10.63	2.73	31.2699	2.7822	4	2.6015	117.649	2.91212	0.60216	2.31	12.276	3.0679	-0.048	3	1	0.4581	2.9295	12.27629
48	32.2	1.1	-10.54	2.73	32.071	3.4299	4	2.65232	119.4271	2.91809	0.60528	2.3128	12.605	3.7732	-0.047	3	1	0.4575	2.9736	12.60495
48.1	48.3	1.25	-10.34	2.73	48.1734	2.5948	5	2.4398	121.3547	2.92416	0.6084	2.3158	19.54	2.7625	-0.03	4	1	0.4569	2.7401	19.5397
48.2	64.5	1.47	-10.17	2.73	64.3755	2.2835	5	2.30953	123.2481	2.93032	0.61152	2.3188	26.499	2.3924	-0.022	4	0.9439	0.4768	2.5822	27.69068
48.3	67.2	1.9	-10.15	2.73	67.0758	2.8326	5	2.36185	125.2258	2.93658	0.61464	2.3219	27.623	2.9623	-0.021	4	0.9627	0.4692	2.6317	28.44388
48.4	63.8	2.17	-10.27	2.73	63.6743	3.408	4	2.43501	126.0711	2.94289	0.61776	2.3251	26.12	3.5731	-0.022	4	0.9934	0.4574	2.711	26.25559
48.5	60.9	1.92	-10.3	2.73	60.7739	3.1593	4	2.42566	125.0618	2.94914	0.62088	2.3283	24.836	3.3204	-0.024	4	0.992	0.4573	2.7066	24.9926
48.6	59.8	1.8	-10.3	2.74	59.6739	3.0164	5	2.41709	124.545	2.95537	0.624	2.3314	24.328	3.1736	-0.024	4	0.99	0.4575	2.7004	24.52106
48.7	106.7	1.85	-10.24	2.74	106.575	1.7359	5	2.06928	126.16	2.96168	0.62712	2.3346	44.382	1.7855	-0.013	5	0.8365	0.5158	2.2993	50.51201
48.8	157.4	2.05	-10.28	2.76	157.274	1.3035	6	1.86198	127.8602	2.96807	0.63024	2.3378	66.004	1.3285	-0.009	5	0.7459	0.5536	2.0609	80.73209
48.9	188.8	2.2	-10.36	2.76	188.673	1.166	6	1.77233	128.8209	2.97451	0.63336	2.3412	79.319	1.1847	-0.007	6	0.7068	0.5705	1.9578	100.1164
49	205.4	2.28	-10.44	2.78	205.272	1.1107	6	1.73186	129.2879	2.98098	0.63648	2.3445	86.284	1.1271	-0.007	6	0.6893	0.5779	1.9114	110.4795
49.1	215.6	2.42	-10.51	2.78	215.471	1.1231	6	1.72111	129.8422	2.98747	0.6396	2.3479	90.501	1.1389	-0.007	6	0.6842	0.5797	1.8976	116.4044
49.2	224.5	2.55	-10.53	2.8	224.371	1.1365	6	1.71313	130.3238	2.99398	0.64272	2.3513	94.152	1.1519	-0.006	6	0.6804	0.5809	1.8871	121.5272
49.3	232.8	2.63	-10.53	2.8	232.671	1.1304	6	1.70088	130.6384	3.00052	0.64584	2.3547	97.538	1.1451	-0.006	6	0.675	0.5828	1.8726	126.4965
49.4	236.1	2.72	-10.53	2.8	235.971	1.1527	6	1.70321	130.919	3.00706	0.64896	2.3581	98.793	1.1676	-0.006	6	0.6758	0.5818	1.8744	128.0982

49.5	240.8	2.95	-10.53	2.8	240.671	1.2257	6	1.71782	131.561	3.01364	0.65208	2.3616	100.64	1.2413	-0.006	6	0.6813	0.5787	1.8882	129.984
49.6	252.3	3.27	-10.53	2.82	252.171	1.2967	6	1.7236	132.4284	3.02026	0.6552	2.3651	105.35	1.3125	-0.006	6	0.6826	0.5775	1.8912	135.9901
49.7	264.7	3.49	-10.53	2.82	264.571	1.3191	6	1.71625	133.0219	3.02691	0.65832	2.3686	110.42	1.3344	-0.005	6	0.6788	0.5787	1.8809	143.0427
49.8	268.6	3.52	-10.53	2.82	268.471	1.3111	6	1.71022	133.1202	3.03357	0.66144	2.3721	111.9	1.3261	-0.005	6	0.6764	0.5792	1.8742	145.304
49.9	263.8	0	-10.53	2.82	263.671	0	0	0	120.9	3.03961	0.66456	2.3751	109.74	0	-0.005	0	1	0.4455	0	0
50	257.3	0	-10.53	2.82	257.171	0	0	0	120.9	3.04566	0.66768	2.378	106.87	0	-0.006	0	1	0.445	0	0

	CPT-11	In situ data						Basic output data											
Depth (ft)	qc (tsf)	fs (tsf)	u (psi)	Other	qt (tsf)	Rf(%)	SBT	Ic SBT	ã (pcf)	ó,v (tsf)	u0 (tsf)	ó',vo (tsf)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.1	32	0	0.04	0.27	32.0005	0	0	0	120.9	0.00605	0	0.0061	5292.7	0	9E-05	0	1	175.04	0	0
0.2	55.4	0	0.06	0.4	55.4007	0	0	0	120.9	0.01209	0	0.0121	4581.4	0	8E-05	0	1	87.519	0	0
0.3	51.3	0.17	-0.02	-0.05	51.2998	0.3314	6	1.9319	106.91	0.01744	0	0.0174	2941.3	0.3315	-3E-05	6	0.3635	4.4486	1.3563	215.607
0.4	59.1	0.24	-0.1	-0.51	59.0988	0.4061	6	1.91186	109.7783	0.02292	0	0.0229	2577	0.4063	-1E-04	6	0.3772	4.2431	1.3736	236.8979
0.5	70	0.31	-0.18	-0.08	69.9978	0.4429	6	1.86309	112.0638	0.02853	0	0.0285	2452.7	0.4431	-2E-04	6	0.3719	3.8336	1.3737	253.5066
0.6	76.3	0.38	-0.19	0.15	76.2977	0.4981	6	1.85472	113.7637	0.03422	0	0.0342	2228.9	0.4983	-2E-04	6	0.3838	3.7317	1.3871	268.966
0.7	83.5	0.45	-0.11	0.12	83.4987	0.5389	6	1.83828	115.2208	0.03998	0	0.04	2087.7	0.5392	-9E-05	6	0.3866	3.5485	1.3973	279.8873
0.8	89	0.49	-0.03	-0.1	88.9996	0.5506	6	1.81951	115.9995	0.04578	0	0.0458	1943.2	0.5509	-2E-05	6	0.3871	3.3729	1.3995	283.559
0.9	92.8	0.51	0	-0.24	92.8	0.5496	6	1.8037	116.3943	0.0516	0	0.0516	1797.6	0.5499	0	6	0.3873	3.2223	1.4002	282.4467
1	95	0.52	0	-0.15	95	0.5474	6	1.79416	116.5935	0.05743	0	0.0574	1653.3	0.5477	0	6	0.3853	3.0729	1.4067	275.7255
1.1	99.3	0.53	0	-0.08	99.3	0.5337	6	1.77205	116.8408	0.06327	0	0.0633	1568.5	0.5341	0	6	0.3831	2.9418	1.399	275.9018
1.2	108	0.57	0	-0.16	108	0.5278	6	1.73869	117.578	0.06915	0	0.0692	1560.9	0.5281	0	6	0.3781	2.8054	1.3841	286.1616
1.3	119.6	0.61	0	-0.12	119.6	0.51	6	1.69345	118.3231	0.07506	0	0.0751	1592.3	0.5104	0	6	0.3692	2.6561	1.3589	300.0296
1.4	132.6	0.65	0	-0.13	132.6	0.4902	6	1.64655	119.0395	0.08102	0	0.081	1635.7	0.4905	0	7	0.3593	2.5174	1.3314	315.2805
1.5	142.2	0.68	0	-0.13	142.2	0.4782	6	1.61532	119.5402	0.08699	0	0.087	1633.6	0.4785	0	7	0.3534	2.4181	1.3147	324.7729
1.6	146.1	0.72	0	-0.12	146.1	0.4928	6	1.61294	120.0244	0.09299	0	0.093	1570.1	0.4931	0	7	0.3562	2.3777	1.3205	328.0894
1.7	145.7	0.79	-0.05	-0.12	145.699	0.5422	6	1.63774	120.6966	0.09903	0	0.099	1470.3	0.5426	-2E-05	6	0.3676	2.3888	1.3489	328.7069
1.8	141.9	0.86	-0.08	-0.12	141.899	0.6061	6	1.67556	121.2533	0.10509	0	0.1051	1349.2	0.6065	-4E-05	6	0.3828	2.4208	1.3875	324.4041
1.9	139.7	0.95	-0.01	-0.12	139.7	0.68	6	1.71129	121.9435	0.11119	0	0.1112	1255.4	0.6806	-1E-05	6	0.4001	2.4629	1.4237	324.9065
2	137.5	1.02	0	-0.12	137.5	0.7418	6	1.74014	122.425	0.11731	0	0.1173	1171.1	0.7425	0	6	0.4119	2.4743	1.4551	321.2632
2.1	134.9	1.05	0	-0.12	134.9	0.7784	6	1.75972	122.5905	0.12344	0	0.1234	1091.8	0.7791	0	6	0.4204	2.4673	1.4771	314.277
2.2	133.7	1.02	0	-0.1	133.7	0.7629	6	1.75726	122.3566	0.12956	0	0.1296	1031	0.7636	0	6	0.4211	2.4216	1.4785	305.6952
2.3	132.1	0.84	0	-0.1	132.1	0.6359	6	1.71294	120.9066	0.1356	0	0.1356	973.17	0.6365	0	6	0.4067	2.3061	1.439	287.6119
2.4	133.7	0.85	0	-0.1	133.7	0.6358	6	1.70869	121.0226	0.14165	0	0.1417	942.85	0.6364	0	6	0.4073	2.2684	1.4403	286.3251
2.5	131.1	0.85	0	-0.11	131.1	0.6484	6	1.72063	120.9747	0.1477	0	0.1477	886.6	0.6491	0	6	0.4128	2.2543	1.4543	278.9897
2.6	129.2	0.84	0.07	-0.1	129.201	0.6502	6	1.72642	120.8525	0.15374	0	0.1537	839.36	0.6509	4E-05	6	0.4162	2.2318	1.4628	272.1921
2.7	130.1	0.82	0.08	-0.08	130.101	0.6303	6	1.71597	120.6931	0.15978	0	0.1598	813.25	0.6311	4E-05	6	0.4143	2.1885	1.4572	268.7601
2.8	136	0.85	0.08	-0.1	136.001	0.625	6	1.69832	121.0642	0.16583	0	0.1658	819.11	0.6258	4E-05	6	0.4108	2.1412	1.4477	274.8769
2.9	139.9	0.9	0.08	-0.08	139.901	0.6433	6	1.69607	121.5514	0.17191	0	0.1719	812.8	0.6441	4E-05	6	0.4124	2.1158	1.4515	279.4061
3	138.1	0.93	0.08	-0.08	138.101	0.6734	6	1.71264	121.7597	0.178	0	0.178	774.86	0.6743	4E-05	6	0.4196	2.1127	1.4701	275.3885
3.1	134	1.02	0.15	-0.08	134.002	0.7612	6	1.75588	122.3621	0.18412	0	0.1841	726.81	0.7622	8E-05	6	0.4361	2.1439	1.5131	271.1392
3.2	131	1.07	0.14	-0.08	131.002	0.8168	6	1.78283	122.657	0.19025	0	0.1903	687.58	0.818	8E-05	6	0.4469	2.153	1.541	266.1752
3.3	126.6	1.12	0.06	-0.08	126.601	0.8847	6	1.8164	122.9079	0.19639	0	0.1964	643.63	0.8861	3E-05	6	0.4599	2.1694	1.5745	259.1623
3.4	120.1	1.13	0.02	-0.08	120.1	0.9409	6	1.85114	122.8443	0.20254	0	0.2025	591.98	0.9425	1E-05	6	0.4727	2.1849	1.6077	247.5794
3.5	117	1.06	0.08	-0.06	117.001	0.906	6	1.84934	122.3127	0.20865	0	0.2087	559.75	0.9076	5E-05	6	0.4729	2.155	1.6074	237.86
3.6	114.3	0.97	0.11	-0.06	114.301	0.8486	6	1.8393	121.6065	0.21473	0	0.2147	531.3	0.8502	7E-05	6	0.4701	2.1164	1.5992	228.1888
3.7	108.7	0.83	0.15	-0.06	108.702	0.7636	6	1.82835	120.3435	0.22075	0	0.2208	491.42	0.7651	0.0001	6	0.4662	2.0764	1.5881	212.88
3.8	102.1	0.73	0.15	-0.06	102.102	0.715	6	1.83325	119.2514	0.22671	0	0.2267	449.36	0.7166	0.0001	6	0.4678	2.0559	1.5916	197.9473
3.9	96.3	0.65	0.15	-0.05	96.3018	0.675	6	1.83951	118.2594	0.23263	0	0.2326	412.98	0.6766	0.0001	6	0.4701	2.0383	1.5968	185.0645
4	90.4	0.59	0.15	-0.04	90.4018	0.6526	6	1.85394	117.3966	0.2385	0	0.2385	378.05	0.6544	0.0001	6	0.4753	2.0301	1.6096	172.9885
4.1	84.9	0.55	0.15	-0.03	84.9018	0.6478	6	1.87484	116.7298	0.24433	0	0.2443	346.49	0.6497	0.0001	6	0.4828	2.0293	1.6288	162.3591
4.2	81.8	0.52	0.15	-0.04	81.8018	0.6357	6	1.88388	116.2287	0.25014	0	0.2501	326.02	0.6376	0.0001	6	0.4867	2.0176	1.6382	155.4987
4.3	80	0.54	0.15	-0.03	80.0018	0.675	6	1.90622	116.4505	0.25597	0	0.256	311.55	0.6772	0.0001	6	0.4958	2.0211	1.6616	152.3199
4.4	78.2	0.57	0.15	-0.03	78.2018	0.7289	6	1.93296	116.7906	0.26181	0	0.2618	297.7	0.7313	0.0001	6	0.5065	2.0288	1.6893	149.4415
4.5	75.2	0.58	0.15	-0.04	75.2018	0.7713	6	1.96081	116.8225	0.26765	0	0.2677	279.97	0.774	0.0001	6	0.5173	2.0362	1.717	144.2027
4.6	72.2	0.6	0.15	-0.03	72.2018	0.831	6	1.99377	116.9713	0.27349	0	0.2735	263	0.8342	0.0002	6	0.53	2.0484	1.7497	139.2442
4.7	70.4	0.59	0.15	-0.03	70.4018	0.8381	6	2.00487	116.7867	0.27933	0	0.2793	251.03	0.8414	0.0002	6	0.5349	2.039	1.762	135.1248
4.8	70.4	0.58	0.22	-0.01	70.4027	0.8238	6	2.00064	116.6617	0.28517	0	0.2852	245.88	0.8272	0.0002	6	0.5348	2.0162	1.761	133.6048
4.9	70.3	0.53	0.16	-0.01	70.302	0.7539	6	1.97953	115.9985	0.29097	0	0.291	240.61	0.757	0.0002	6	0.5283	1.978	1.7433	130.8783
5	70.8	0.53	0.15	-0.03	70.8018	0.7486	6	1.97527	116.0158	0.29677	0	0.2968	237.58	0.7517	0.0002	6	0.5283	1.9574	1.7425	130.4282
5.1	69.9	0.55	0.15	-0.02	69.9018	0.7868	6	1.99194	116.2556	0.30258	0	0.3026	230.02	0.7902	0.0002	6	0.5356	1.9552	1.761	128.6047
5.2	65.9	0.51	0.11	0	65.9014	0.7739	6	2.00921	115.5594	0.30836	0	0.3084	212.72	0.7775	0.0001	6	0.542	1.951	1.7773	120.9409
5.3	68.3	0.52	0	0.01	68.3	0.7614	6	1.99235	115.7887	0.31415	0	0.3142	216.41	0.7649	0	6	0.5379	1.9217	1.7658	123.476
5.4	69.4	0.54	-0.04	-0.01	69.3995	0.7781	6	1.99183	116.1038	0.31995	0	0.32	215.91	0.7817	-4E-05	6	0.5394	1.9063	1.769	124.4546
5.5	70.9	0.56	-0.08	-0.01	70.899	0.7899	6	1.98778	116.422	0.32577	0	0.3258	216.63	0.7935	-8E-05	6	0.5397	1.8885	1.7691	125.9562
5.6	72.3	0.57	-0.08	-0.01	72.299	0.7884	6	1.98031	116.5992	0.3316	0	0.3316	217.03	0.792	-8E-05	6	0.5386	1.8682	1.7656	127.0646
5.7	72	0.6	-0.08	0.01	71.999	0.8333	6	1.99547	116.9644	0.33745	0	0.3375	212.36	0.8373	-8E-05	6	0.5455	1.8652	1.783	126.3244
5.8	69.3	0.62	-0.08	0	69.299	0.8947	6	2.02679	117.1111	0.34331	0	0.3433	200.86	0.8991	-8E-05	6	0.5563	1.8703	1.8148	121.8883
5.9	65.5	0.62	-0.08	0.01	65.499	0.9466	5	2.06094	116.9736	0.34916	0	0.3492	186.59	0.9517	-9E-05	6	0.5693	1.8797	1.8479	115.7395
6	64.5	0.61	-0.08	0.01	64.499	0.9458	5	2.06616	116.817	0.355	0	0.355	180.69	0.951	-9E-05	6	0.5722	1.8682	1.8549	113.2516
6.1	67.5	0.61	-0.08	0.01	67.499	0.9037	6	2.03864	116.9279	0.36084	0	0.3608	186.06	0.9086	-9E-05	6	0.5642	1.8348	1.8329	116.4214
6.2	72.3	0.62	-0.08	0.01	72.299	0.8576	6	2.00113	117.2145	0.3667	0	0.3667	196.16	0.8619	-8E-05	6	0.5528	1.7964	1.8023	122.1255
6.3	80.2	0.67	-0.08	0.01	80.199	0.8354	6	1.95786	118.0349	0.37261	0	0.3726	214.24	0.8393	-7E-05	6	0.54	1.7569	1.7677	132.545
6.4	98	0.75	-0.08	0.01	97.999	0.7653	6	1.86505	119.3491	0.37857	0	0.3786	257.86	0.7683	-6E-05	6	0.5103	1.6897	1.6892	155.8896
6.5	111.6	0.85	-0.08	-0.01	111.599	0.7617	6	1.8186	120.5819	0.3846	0	0.3846	289.17	0.7643	-5E-05	6	0.4967	1.6531	1.6524	173.7505
6.6	120.3	0.94	-0.08	-0.01	120.299	0.7814	6	1.79962	121.5014	0.39068	0	0.3907	306.92	0.7839	-5E-05	6	0.4922	1.6329	1.6396	185.0489
6.7	122.9	1.04	-0.08	-0.03	122.899	0.8462	6	1.81403	122.2932	0.39679	0	0.3968	308.73	0.849	-5E-05	6	0.4991	1.6316	1.6568	188.8998
6.8	121.4	1.09	-0.08	-0.03	121.399	0.8979	6	1.83451	122.6069	0.40292	0	0.4029	300.3	0.9009	-5E-05	6	0.5077	1.6327	1.6784	186.698

6.9	116.3	1.09	-0.08	-0.03	116.299	0.9372	6	1.86076	122.5022	0.40905	0	0.4091	283.32	0.9406	-5E-05	6	0.5179	1.636	1.7043	179.1817
7	109.8	1.06	-0.08	-0.04	109.799	0.9654	6	1.88818	122.1577	0.41516	0	0.4152	263.48	0.9691	-5E-05	6	0.5283	1.6393	1.7307	169.4667
7.1	104.7	0.99	-0.08	-0.05	104.699	0.9456	6	1.89844	121.5418	0.42123	0	0.4212	247.55	0.9494	-6E-05	6	0.5324	1.633	1.7407	160.9297
7.2	102	0.92	-0.08	-0.06	101.999	0.902	6	1.89449	120.9415	0.42728	0	0.4273	237.72	0.9058	-6E-05	6	0.5316	1.6194	1.7377	155.4504
7.3	105	0.88	-0.08	-0.06	104.999	0.8381	6	1.86491	120.687	0.43331	0	0.4333	241.32	0.8416	-6E-05	6	0.5221	1.5938	1.712	157.5012
7.4	109.1	0.86	-0.08	-0.08	109.099	0.7883	6	1.83548	120.6122	0.43935	0	0.4394	247.32	0.7915	-5E-05	6	0.5128	1.5694	1.6868	161.166
7.5	109.5	0.91	-0.08	-0.1	109.499	0.8311	6	1.84828	121.0346	0.4454	0	0.4454	244.85	0.8345	-5E-05	6	0.5187	1.5665	1.7016	161.4506
7.6	107.2	0.95	-0.08	-0.08	107.199	0.8862	6	1.87281	121.2976	0.45146	0	0.4515	236.45	0.89	-5E-05	6	0.5287	1.5688	1.7268	158.2681
7.7	104.3	0.97	-0.08	-0.09	104.299	0.93	6	1.89521	121.3832	0.45753	0	0.4575	226.96	0.9341	-6E-05	6	0.5377	1.5696	1.7497	154.0417
7.8	102.1	0.95	-0.08	-0.1	102.099	0.9305	6	1.90256	121.1787	0.46359	0	0.4636	219.24	0.9347	-6E-05	6	0.5412	1.5631	1.7581	150.1391
7.9	102.2	0.92	-0.08	-0.12	102.199	0.9002	6	1.89329	120.9463	0.46964	0	0.4696	216.61	0.9044	-6E-05	6	0.5388	1.5491	1.751	148.9362
8	105.9	0.89	-0.08	-0.12	105.899	0.8404	6	1.86272	120.7905	0.47568	0	0.4757	221.63	0.8442	-5E-05	6	0.5289	1.5264	1.7243	152.0776
8.1	112.1	0.91	-0.08	-0.14	112.099	0.8118	6	1.83397	121.0919	0.48173	0	0.4817	231.7	0.8153	-5E-05	6	0.52	1.5056	1.7001	158.8231
8.2	116.2	0.83	-0.08	-0.15	116.199	0.7143	6	1.78779	120.5062	0.48776	0	0.4878	237.23	0.7173	-5E-05	6	0.5042	1.4777	1.6579	161.5959
8.3	115.8	0.91	-0.08	-0.15	115.799	0.7858	6	1.81418	121.1711	0.49382	0	0.4938	233.5	0.7892	-5E-05	6	0.5151	1.4808	1.6856	161.3632
8.4	111.7	0.93	-0.08	-0.14	111.699	0.8326	6	1.84198	121.2422	0.49988	0	0.4999	222.45	0.8363	-5E-05	6	0.5261	1.4836	1.7135	155.9165
8.5	102.8	0.89	-0.02	-0.15	102.8	0.8658	6	1.88082	120.718	0.50591	0	0.5059	202.2	0.87	-1E-05	6	0.5405	1.4901	1.7506	144.0539
8.6	95.1	0.83	-0.03	-0.16	95.0996	0.8728	6	1.90971	120.0174	0.51191	0	0.5119	184.77	0.8775	-2E-05	6	0.5513	1.4923	1.7781	133.3976
8.7	93.2	0.76	0	-0.16	93.2	0.8155	6	1.89896	119.3235	0.51788	0	0.5179	178.96	0.82	0	6	0.548	1.4793	1.7687	129.5709
8.8	91.3	0.73	-0.08	-0.16	91.299	0.7996	6	1.90109	118.9786	0.52383	0	0.5238	173.29	0.8042	-6E-05	6	0.5495	1.4716	1.772	126.2501
8.9	91	0.7	-0.08	-0.16	90.999	0.7692	6	1.89238	118.6635	0.52976	0	0.5298	170.77	0.7737	-6E-05	6	0.5472	1.4602	1.7652	124.8483
9	92	0.69	-0.08	-0.15	91.999	0.75	6	1.88211	118.5849	0.53569	0	0.5357	170.74	0.7544	-6E-05	6	0.5445	1.4487	1.7573	125.2219
9.1	93.6	0.71	-0.08	-0.16	93.599	0.7586	6	1.87891	118.836	0.54163	0	0.5416	171.81	0.763	-6E-05	6	0.5445	1.44	1.7565	126.6426
9.2	95.1	0.77	-0.08	-0.14	95.099	0.8097	6	1.89009	119.4684	0.54761	0	0.5476	172.66	0.8144	-6E-05	6	0.5499	1.4365	1.7699	128.3665
9.3	95	0.81	-0.08	-0.16	94.999	0.8526	6	1.90394	119.8364	0.5536	0	0.5536	170.6	0.8576	-6E-05	6	0.5561	1.4337	1.7854	127.9706
9.4	93	0.85	-0.08	-0.17	92.999	0.914	6	1.92963	120.1372	0.55961	0	0.5596	165.19	0.9195	-6E-05	6	0.5666	1.4346	1.8119	125.332
9.5	89.2	0.87	-0.08	-0.17	89.199	0.9754	6	1.96126	120.2056	0.56562	0	0.5656	156.7	0.9816	-6E-05	6	0.579	1.4371	1.8437	120.3797
9.6	85.1	0.85	-0.08	-0.18	85.099	0.9988	6	1.98372	119.9207	0.57161	0	0.5716	147.88	1.0056	-7E-05	6	0.5879	1.4362	1.8664	114.7328
9.7	81.2	0.83	-0.08	-0.16	81.199	1.0222	6	2.00597	119.632	0.57759	0	0.5776	139.58	1.0295	-7E-05	6	0.5968	1.4351	1.8888	109.348
9.8	75.4	0.71	-0.08	-0.18	75.399	0.9417	6	2.01012	118.3086	0.58351	0	0.5835	128.22	0.949	-8E-05	6	0.5985	1.4279	1.8927	100.9624
9.9	71.5	0.58	-0.08	-0.18	71.499	0.8112	6	1.9913	116.6993	0.58934	0	0.5893	120.32	0.8179	-8E-05	6	0.5918	1.4139	1.8744	94.75155
10	68.7	0.57	-0.08	-0.18	68.699	0.8297	6	2.01115	116.4747	0.59517	0	0.5952	114.43	0.837	-8E-05	6	0.5999	1.4122	1.8948	90.89513
10.1	67.7	0.53	-0.08	-0.18	67.699	0.7829	6	2.00226	115.9065	0.60096	0	0.601	111.65	0.7899	-9E-05	6	0.5973	1.402	1.8875	88.90721
10.2	68.6	0.51	-0.15	-0.18	68.5982	0.7435	6	1.98508	115.6572	0.60675	0	0.6068	112.06	0.7501	-2E-04	6	0.592	1.3899	1.8727	89.31034
10.3	72.5	0.52	-0.15	-0.2	72.4982	0.7173	6	1.95645	115.9342	0.61254	0	0.6125	117.36	0.7234	-2E-04	6	0.5827	1.3751	1.8476	93.42095
10.4	78.6	0.56	-0.15	-0.19	78.5982	0.7125	6	1.92562	116.6735	0.61838	0	0.6184	126.1	0.7181	-1E-04	6	0.5728	1.3603	1.821	100.2498
10.5	82.8	0.62	-0.15	-0.18	82.7982	0.7488	6	1.91912	117.5452	0.62425	0	0.6243	131.64	0.7545	-1E-04	6	0.5719	1.3522	1.8176	105.0161
10.6	84.4	0.67	-0.15	-0.18	84.3982	0.7939	6	1.92693	118.1594	0.63016	0	0.6302	132.93	0.7998	-1E-04	6	0.5759	1.3478	1.8276	106.7037
10.7	85.2	0.69	-0.15	-0.18	85.1982	0.8099	6	1.92866	118.3976	0.63608	0	0.6361	132.94	0.816	-1E-04	6	0.5776	1.3417	1.8312	107.2287
10.8	85.5	0.69	-0.15	-0.18	85.4982	0.807	6	1.92653	118.4062	0.642	0	0.642	132.17	0.8131	-1E-04	6	0.5778	1.3347	1.8309	107.0362
10.9	85.6	0.67	-0.15	-0.18	85.5982	0.7827	6	1.91838	118.1938	0.64791	0	0.6479	131.11	0.7887	-1E-04	6	0.5757	1.3262	1.8246	106.4773
11	87.7	0.67	-0.15	-0.18	87.6982	0.764	6	1.9037	118.2529	0.65382	0	0.6538	133.13	0.7697	-1E-04	6	0.5713	1.3165	1.8122	108.3031
11.1	91.3	0.69	-0.15	-0.18	91.2982	0.7558	6	1.88675	118.5662	0.65975	0	0.6598	137.38	0.7613	-1E-04	6	0.5661	1.3066	1.798	111.9231
11.2	93.5	0.61	-0.15	-0.18	93.4982	0.6524	6	1.84174	117.7226	0.66564	0	0.6656	139.46	0.6571	-1E-04	6	0.5502	1.2905	1.7556	113.2197
11.3	94.6	0.58	-0.15	-0.17	94.5982	0.6131	6	1.82248	117.3822	0.67151	0	0.6715	139.87	0.6175	-1E-04	6	0.5439	1.2806	1.7383	113.6766
11.4	95	0.64	-0.15	-0.17	94.9982	0.6737	6	1.84391	118.1127	0.67741	0	0.6774	139.24	0.6785	-1E-04	6	0.5529	1.2797	1.7612	114.0692
11.5	91.8	0.67	-0.15	-0.16	91.7982	0.7299	6	1.87603	118.3643	0.68333	0	0.6833	133.34	0.7353	-1E-04	6	0.5657	1.2806	1.794	110.2769
11.6	82.4	0.66	-0.15	-0.18	82.3982	0.801	6	1.93767	117.9908	0.68923	0	0.6892	118.55	0.8078	-1E-04	6	0.5891	1.2873	1.8545	99.40396
11.7	72.5	0.62	-0.15	-0.16	72.4982	0.8552	6	1.99947	117.2212	0.69509	0	0.6951	103.3	0.8635	-2E-04	6	0.6124	1.2935	1.9151	87.77526
11.8	60.2	0.58	-0.15	-0.16	60.1982	0.9635	5	2.0953	116.2797	0.70091	0	0.7009	84.886	0.9748	-2E-04	6	0.6483	1.3061	2.0086	73.44063
11.9	50.8	0.5	-0.15	-0.16	50.7982	0.9843	5	2.16126	114.7796	0.70664	0	0.7066	70.886	0.9982	-2E-04	5	0.6732	1.3123	2.0731	62.12496
12	44.5	0.43	-0.15	-0.16	44.4982	0.9663	5	2.20471	113.3531	0.71231	0	0.7123	61.47	0.9821	-3E-04	5	0.6899	1.3139	2.1162	54.37075
12.1	40.5	0.38	-0.15	-0.16	40.4982	0.9383	5	2.23222	112.2189	0.71792	0	0.7179	55.41	0.9553	-3E-04	5	0.7008	1.3124	2.1441	49.3387
12.2	37.4	0.35	-0.15	-0.16	37.3982	0.9359	5	2.26094	111.4229	0.72349	0	0.7235	50.691	0.9543	-3E-04	5	0.7123	1.311	2.1736	45.43944
12.3	35.5	0.31	-0.15	-0.16	35.4982	0.8733	5	2.26466	110.4078	0.72901	0	0.729	47.693	0.8916	-3E-04	5	0.7145	1.305	2.1787	42.88071
12.4	33.8	0.28	-0.15	-0.16	33.7982	0.8285	5	2.27143	109.5433	0.73449	0	0.7345	45.016	0.8469	-3E-04	5	0.7178	1.2996	2.1868	40.60973
12.5	33	0.25	-0.15	-0.16	32.9982	0.7576	5	2.26131	108.6557	0.73992	0	0.7399	43.597	0.775	-3E-04	5	0.7149	1.2914	2.1784	39.37004
12.6	33.6	0.24	-0.15	-0.16	33.5982	0.7143	5	2.24212	108.4009	0.74534	0	0.7453	44.077	0.7305	-3E-04	5	0.7087	1.2819	2.1614	39.80001
12.7	36	0.24	-0.15	-0.18	35.9982	0.6667	5	2.2015	108.5692	0.75077	0	0.7508	46.948	0.6809	-3E-04	5	0.6945	1.2691	2.1234	42.27539
12.8	40.3	0.27	-0.15	-0.16	40.2982	0.67	5	2.15952	109.7063	0.75626	0	0.7563	52.286	0.6828	-3E-04	5	0.6799	1.2565	2.0846	46.95704
12.9	44.6	0.31	-0.15	-0.16	44.5982	0.6951	5	2.12903	110.9644	0.76181	0	0.7618	57.543	0.7072	-3E-04	6	0.6697	1.2461	2.057	51.62503
13	47.3	0.36	-0.15	-0.16	47.2982	0.7611	5	2.12708	112.2019	0.76742	0	0.7674	60.633	0.7737	-2E-04	6	0.6701	1.2402	2.0575	54.53723
13.1	49.6	0.41	-0.15	-0.15	49.5982	0.8266	5	2.12841	113.2693	0.77308	0	0.7731	63.157	0.8397	-2E-04	6	0.6718	1.2347	2.0611	56.97421
13.2	52.8	0.48	-0.15	-0.16	52.7982	0.9091	5	2.1281	114.5751	0.77881	0	0.7788	66.793	0.9227	-2E-04	5	0.6728	1.229	2.0631	60.42098
13.3	56	0.53	-0.15	-0.16	55.9982	0.9465	5	2.1167	115.4437	0.78458	0	0.7846	70.373	0.9599	-2E-04	6	0.6697	1.2218	2.0541	63.75277
13.4	58.3	0.57	-0.15	-0.16	58.2982	0.9777	5	2.11037	116.0743	0.79039	0	0.7904	72.759	0.9912	-2E-04	6	0.6683	1.2153	2.0499	66.04925
13.5	64.5	0.61	-0.15	-0.16	64.4982	0.9458	5	2.06617	116.817	0.79623	0	0.7962	80.005	0.9576	-2E-04	6	0.6529	1.204	2.0085	72.48456
13.6	77.3	0.68	-0.15	-0.16	77.2982	0.8797	6	1.98396	118.0534	0.80213	0	0.8021	95.366	0.8889	-1E-04	6	0.6233	1.1884	1.9301	85.91675
13.7	94	0.78	-0.15	-0.18	93.9982	0.8298	6	1.90051	119.5344	0.80811	0	0.8081	115.32	0.837	-1E-04	6	0.5933	1.1734	1.8507	103.3448
13.8	111.6	0.93	-0.15	-0.18	111.598	0.8334	6	1.84253	121.24	0.81417	0	0.8142	136.07	0.8395	-1E-04	6	0.5728	1.162	1.7963	121.6592
13.9	124.2	1.11	-0.15	-0.18	124.198	0.8937	6	1.82562	122.7955	0.82031	0	0.8203	150.4	0.8997	-9E-05	6	0.5677	1.1555	1.782	134.7309

14	133.9	1.26	-0.15	-0.17	133.898	0.941	6	1.81533	123.9064	0.8265	0	0.8265	161.01	0.9469	-8E-05	6	0.5649	1.1498	1.7739	144.5979
14.1	138.3	1.37	-0.15	-0.17	138.298	0.9906	6	1.81961	124.5977	0.83273	0	0.8327	165.08	0.9966	-8E-05	6	0.5675	1.1456	1.7798	148.8308
14.2	137.3	1.41	-0.15	-0.17	137.298	1.027	6	1.83243	124.7905	0.83897	0	0.839	162.65	1.0333	-8E-05	6	0.5731	1.1422	1.7939	147.3094
14.3	132.2	1.15	-0.15	-0.18	132.198	0.8699	6	1.79732	123.2068	0.84513	0	0.8451	155.42	0.8755	-8E-05	6	0.5604	1.1342	1.7598	140.8022
14.4	124.4	1.2	-0.15	-0.18	124.398	0.9646	6	1.84654	123.3699	0.8513	0	0.8513	145.13	0.9713	-9E-05	6	0.5797	1.1344	1.8096	132.4496
14.5	110.1	1.19	-0.15	-0.18	110.098	1.0809	6	1.91896	123.0108	0.85745	0	0.8575	127.4	1.0893	-1E-04	6	0.6076	1.1363	1.8821	117.3114
14.6	95.1	1.2	-0.1	-0.17	95.0988	1.2619	6	2.01107	122.7148	0.86359	0	0.8636	109.12	1.2734	-8E-05	6	0.6432	1.1396	1.9742	101.4916
14.7	81.2	1.26	-0.08	-0.16	81.199	1.5517	5	2.12193	122.6864	0.86972	0	0.8697	92.362	1.5685	-7E-05	5	0.6858	1.1439	2.0853	86.84351
14.8	64.5	1.21	-0.08	-0.16	64.499	1.876	5	2.25142	121.8286	0.87581	0	0.8758	72.645	1.9018	-9E-05	5	0.7354	1.1492	2.215	69.10007
14.9	51.7	0.87	-0.08	-0.16	51.699	1.6828	5	2.29416	118.8753	0.88176	0	0.8818	57.632	1.712	-1E-04	5	0.7524	1.147	2.2588	55.08787
15	47	0.93	-0.08	-0.16	46.999	1.9788	5	2.37081	119.1308	0.88771	0	0.8877	51.944	2.0169	-1E-04	5	0.7824	1.1473	2.3369	49.99694
15.1	48.3	0.99	-0.08	-0.16	48.299	2.0497	5	2.37157	119.6548	0.8937	0	0.8937	53.044	2.0884	-1E-04	5	0.7837	1.1415	2.3394	51.14113
15.2	53.6	1.03	-0.08	-0.18	53.599	1.9217	5	2.31896	120.1986	0.89971	0	0.8997	58.574	1.9545	-1E-04	5	0.7646	1.132	2.2886	56.3798
15.3	70.4	1.01	-0.23	-0.16	70.3972	1.4347	5	2.14663	120.72	0.90574	0	0.9057	76.723	1.4534	-2E-04	5	0.7001	1.115	2.1185	73.22743
15.4	75.2	0.92	-0.77	-0.16	75.1906	1.2236	5	2.08062	120.1978	0.91175	0	0.9118	81.468	1.2386	-8E-04	5	0.6759	1.1059	2.0543	77.63064
15.5	71.3	0.79	-0.08	-0.16	71.299	1.108	5	2.07206	118.9535	0.9177	0	0.9177	76.693	1.1225	-8E-05	6	0.6734	1.1006	2.0471	73.2092
15.6	68.5	0.72	-0.08	-0.17	68.499	1.0511	5	2.07207	118.1769	0.92361	0	0.9236	73.165	1.0655	-9E-05	6	0.6743	1.096	2.0486	69.99531
15.7	69.3	0.72	-0.09	-0.18	69.2989	1.039	5	2.06501	118.2052	0.92952	0	0.9295	73.554	1.0531	-9E-05	6	0.6724	1.091	2.0431	70.49693
15.8	73.2	0.73	-0.2	-0.16	73.1976	0.9973	6	2.03532	118.4396	0.93544	0	0.9354	77.249	1.0102	-2E-04	6	0.662	1.085	2.0149	74.09777
15.9	79.7	0.71	-0.48	-0.16	79.6941	0.8909	6	1.97648	118.4438	0.94136	0	0.9414	83.658	0.9016	-4E-04	6	0.6404	1.0777	1.9576	80.21426
16	85.5	0.72	-0.21	-0.17	85.4974	0.8421	6	1.93741	118.7175	0.9473	0	0.9473	89.254	0.8516	-2E-04	6	0.6264	1.0718	1.92	85.64
16.1	84.3	0.77	-0.13	-0.18	84.2984	0.9134	6	1.96337	119.1744	0.95326	0	0.9533	87.432	0.9239	-1E-04	6	0.637	1.0687	1.9473	84.18232
16.2	75	0.84	-0.08	-0.18	74.999	1.12	5	2.05758	119.5259	0.95923	0	0.9592	77.186	1.1345	-8E-05	6	0.6737	1.0683	2.0429	74.75496
16.3	65.2	0.92	-0.08	-0.18	65.199	1.4111	5	2.16772	119.85	0.96523	0	0.9652	66.548	1.4323	-9E-05	5	0.7166	1.0681	2.1548	64.83763
16.4	56.8	1	-0.08	-0.16	56.799	1.7606	5	2.27517	120.1237	0.97123	0	0.9712	57.481	1.7912	-1E-04	5	0.7586	1.0672	2.2642	56.30478
16.5	46.6	1.05	-0.08	-0.16	46.599	2.2533	5	2.4101	119.998	0.97723	0	0.9772	46.685	2.3015	-1E-04	5	0.8113	1.0666	2.4019	45.98958
16.6	34.4	1	-0.08	-0.16	34.399	2.9071	4	2.58219	118.9006	0.98318	0	0.9832	33.988	2.9926	-2E-04	4	0.879	1.0667	2.5788	33.68684
16.7	24.7	0.89	-0.08	-0.17	24.699	3.6034	4	2.75218	117.24	0.98904	0	0.989	23.973	3.7537	-2E-04	4	0.9468	1.066	2.7561	23.88681
16.8	18.9	0.74	-0.08	-0.17	18.899	3.9156	3	2.86464	115.2367	0.9948	0	0.9948	17.998	4.1331	-3E-04	3	0.9932	1.0632	2.8772	17.99018
16.9	16.3	0.63	-0.1	-0.16	16.2988	3.8653	3	2.91121	113.6981	1.00049	0	1.0005	15.291	4.1181	-5E-04	3	1	1.0576	2.9309	15.29086
17	16	0.52	-0.18	-0.16	15.9978	3.2505	3	2.87156	112.2486	1.0061	0	1.0061	14.901	3.4686	-9E-04	3	1	1.0517	2.8937	14.90083
17.1	16.2	0.43	-0.17	-0.16	16.1979	2.6547	4	2.81502	110.8884	1.01164	0	1.0116	15.012	2.8315	-8E-04	4	0.9793	1.045	2.8387	14.99758
17.2	16.2	0.4	-0.19	-0.17	16.1977	2.4695	4	2.7968	110.3592	1.01716	0	1.0172	14.924	2.635	-9E-04	4	0.9734	1.0392	2.8225	14.90876
17.3	16	0.37	-0.26	-0.19	15.9968	2.313	4	2.78495	109.7583	1.02265	0	1.0227	14.643	2.4709	-0.001	4	0.9701	1.0336	2.8131	14.62763
17.4	16.6	0.45	0.09	-0.2	16.6011	2.7107	4	2.81168	111.281	1.02821	0	1.0282	15.146	2.8896	0.0004	4	0.9809	1.0285	2.8406	15.13729
17.5	18.3	0.49	0.06	-0.21	18.3007	2.6775	4	2.77437	112.1418	1.03382	0	1.0338	16.702	2.8378	0.0003	4	0.9664	1.0227	2.8019	16.68901
17.6	18.4	0.55	-0.16	-0.23	18.398	2.9895	4	2.80122	112.9999	1.03947	0	1.0395	16.699	3.1685	-7E-04	3	0.9776	1.0175	2.8306	16.6928
17.7	17.8	0.61	0.61	-0.24	17.8075	3.4255	3	2.84856	113.678	1.04515	0	1.0452	16.038	3.6391	0.0026	3	0.9971	1.0124	2.8812	16.03757
17.8	19.9	0.62	0.73	-0.25	19.9089	3.1142	4	2.7849	114.069	1.05086	0	1.0509	17.945	3.2877	0.0028	4	0.9724	1.0067	2.8157	17.94202
17.9	24.4	0.63	0.2	-0.26	24.4025	2.5817	4	2.66514	114.6825	1.05659	0	1.0566	22.095	2.6986	0.0006	4	0.9255	1.0013	2.6917	22.09309
18	29.3	0.65	-0.54	-0.26	29.2934	2.2189	4	2.56215	115.3567	1.06236	0	1.0624	26.574	2.3024	-0.001	4	0.8854	0.9965	2.5859	26.58612
18.1	35.1	0.64	-0.69	-0.26	35.0916	1.8238	5	2.4481	115.6837	1.06814	0	1.0681	31.853	1.8811	-0.001	5	0.8414	0.9921	2.4697	31.90057
18.2	42.7	0.62	-0.44	-0.26	42.6946	1.4522	5	2.32057	115.9298	1.07394	0	1.0739	38.755	1.4896	-8E-04	5	0.7924	0.9883	2.3402	38.87483
18.3	53.2	0.63	-0.56	-0.27	53.1932	1.1844	5	2.19119	116.5831	1.07977	0	1.0798	48.263	1.2089	-8E-04	5	0.7426	0.9851	2.2089	48.51584
18.4	60.7	0.7	-0.39	-0.28	60.6952	1.1533	5	2.13827	117.6758	1.08565	0	1.0857	54.907	1.1743	-5E-04	5	0.7226	0.9816	2.1557	55.29946
18.5	60.9	0.83	-0.15	-0.28	60.8982	1.3629	5	2.18139	118.9303	1.0916	0	1.0916	54.788	1.3878	-2E-04	5	0.7399	0.9772	2.2003	55.23391
18.6	52.4	0.97	-0.14	-0.28	52.3983	1.8512	5	2.31601	119.7042	1.09758	0	1.0976	46.74	1.8908	-2E-04	5	0.7929	0.9714	2.3386	47.09557
18.7	39.1	1.03	-0.08	-0.28	39.099	2.6343	4	2.51213	119.4292	1.10356	0	1.1036	34.43	2.7109	-2E-04	4	0.8706	0.9641	2.5417	34.61799
18.8	27.8	0.98	-0.08	-0.28	27.799	3.5253	4	2.70694	118.2332	1.10947	0	1.1095	24.056	3.6719	-2E-04	4	0.9489	0.956	2.7467	24.11449
18.9	20.9	0.87	-0.08	-0.28	20.899	4.1629	3	2.84805	116.6662	1.1153	0	1.1153	17.738	4.3976	-3E-04	3	1	0.9487	2.8991	17.73846
19	19.2	0.75	-0.08	-0.28	19.199	3.9065	3	2.8587	115.3733	1.12107	0	1.1211	16.126	4.1487	-3E-04	3	1	0.9438	2.9149	16.12563
19.1	18	0.68	-0.08	-0.28	17.999	3.778	3	2.87133	114.4989	1.12679	0	1.1268	14.974	4.0303	-3E-04	3	1	0.939	2.9321	14.97365
19.2	17.4	0.66	0.05	-0.3	17.4006	3.793	3	2.88387	114.198	1.1325	0	1.1325	14.365	4.057	0.0002	3	1	0.9343	2.948	14.36472
19.3	17.2	0.65	0.2	-0.28	17.2025	3.7785	3	2.88672	114.0584	1.13821	0	1.1382	14.114	4.0463	0.0009	3	1	0.9296	2.9533	14.11363
19.4	17.4	0.61	0.34	-0.28	17.4042	3.5049	3	2.86252	113.6221	1.14389	0	1.1439	14.215	3.7515	0.0015	3	1	0.925	2.9307	14.21491
19.5	17.1	0.59	0.22	-0.28	17.1027	3.4498	3	2.86427	113.3356	1.14956	0	1.1496	13.878	3.6983	0.001	3	1	0.9205	2.9352	13.87766
19.6	16.6	0.56	0.26	-0.28	16.6032	3.3729	3	2.86847	112.8814	1.1552	0	1.1552	13.373	3.6251	0.0012	3	1	0.916	2.9427	13.37257
19.7	16.7	0.52	0.41	-0.28	16.705	3.1128	3	2.84525	112.3541	1.16082	0	1.1608	13.391	3.3453	0.0019	3	1	0.9115	2.9212	13.39074
19.8	16.5	0.48	0.55	-0.29	16.5067	2.9079	4	2.83171	111.7393	1.1664	0	1.1664	13.152	3.129	0.0026	3	1	0.9072	2.9103	13.15182
19.9	16.4	0.43	0.55	-0.3	16.4067	2.6209	4	2.80725	110.9196	1.17195	0	1.172	13	2.8225	0.0026	3	1	0.9029	2.8883	12.99952
20	16.7	0.49	0.57	-0.3	16.707	2.9329	4	2.82972	111.9196	1.17755	0	1.1776	13.188	3.1553	0.0026	3	1	0.8986	2.9115	13.18796
20.1	16.9	0.56	0.64	-0.3	16.9078	3.3121	3	2.8574	112.9258	1.18319	0	1.1832	13.29	3.5613	0.0029	3	1	0.8943	2.9402	13.29002
20.2	17.1	0.6	1.1	-0.31	17.1135	3.506	3	2.86837	113.4601	1.18887	0	1.1889	13.395	3.7678	0.005	3	1	0.89	2.9523	13.39479
20.3	17.1	0.55	1.9	-0.32	17.1233	3.212	3	2.84493	112.8248	1.19451	0	1.1945	13.335	3.4529	0.0086	3	1	0.8858	2.9309	13.33501
20.4	16.5	0.57	2.3	-0.33	16.5282	3.4487	3	2.87592	112.9999	1.20016	0	1.2002	12.772	3.7187	0.0108	3	1	0.8816	2.9653	12.77167
20.5	16.2	0.58	2.32	-0.33	16.2284	3.574	3	2.89169	113.0825	1.20581	0	1.2058	12.459	3.8609	0.0111	3	1	0.8775	2.9837	12.4585
20.6	14.9	0.57	2.41	-0.34	14.9295	3.8179	3	2.9379	112.7518	1.21145	0	1.2115	11.324	4.1551	0.0127	3	1	0.8734	3.036	11.32368
20.7	15.1	0.56	2.25	-0.35	15.1275	3.7019	3	2.92516	112.6544	1.21708	0	1.2171	11.429	4.0258	0.0117	3	1	0.8694	3.0245	11.42936
20.8	15.6	0.56	2.51	-0.34	15.6307	3.5827	3	2.90523	112.7342	1.22272	0	1.2227	11.784	3.8867	0.0125	3	1	0.8654	3.0047	11.78359
20.9	15.2	0.54	2.57	-0.35	15.2315	3.5453	3	2.91136	112.405	1.22834	0	1.2283	11.4	3.8563	0.0132	3	1	0.8614	3.0142	11.40006
21	15	0.51	2.71	-0.37	15.0332	3.3925	3	2.90431	111.9548	1.23394	0	1.2339	11.183	3.6959	0.0141	3	1	0.8575	3.0099	11.18311

21.1	14.6	0.48	3.06	-0.38	14.6375	3.2793	3	2.90473	111.4462	1.23951	0	1.2395	10.809	3.5826	0.0164	3	1	0.8537	3.0138	10.80909
21.2	14.1	0.47	3.29	-0.38	14.1403	3.3238	3	2.92027	111.2078	1.24507	0	1.2451	10.357	3.6448	0.0184	3	1	0.8498	3.0332	10.35702
21.3	13.9	0.44	3.31	-0.39	13.9405	3.1563	3	2.91191	110.6905	1.2506	0	1.2506	10.147	3.4673	0.0188	3	1	0.8461	3.0277	10.14704
21.4	13.8	0.43	3.31	-0.41	13.8405	3.1068	3	2.9104	110.5047	1.25613	0	1.2561	10.018	3.4169	0.0189	3	1	0.8424	3.0286	10.0184
21.5	13.8	0.46	3.1	-0.4	13.8379	3.3242	3	2.92784	110.9978	1.26168	0	1.2617	9.9679	3.6577	0.0178	3	1	0.8387	3.0476	9.96789
21.6	13.8	0.48	2.9	-0.41	13.8355	3.4693	3	2.93898	111.3087	1.26724	0	1.2672	9.9178	3.8192	0.0166	3	1	0.835	3.0603	9.91779
21.7	13.9	0.51	2.98	-0.42	13.9365	3.6595	3	2.9504	111.7701	1.27283	0	1.2728	9.9492	4.0273	0.0169	3	1	0.8313	3.0729	9.94919
21.8	14.3	0.52	3.26	-0.42	14.3399	3.6263	3	2.93813	111.9817	1.27843	0	1.2784	10.217	3.9812	0.018	3	1	0.8277	3.0606	10.2168
21.9	16	0.55	3.44	-0.42	16.0421	3.4285	3	2.88464	112.6657	1.28406	0	1.2841	11.493	3.7268	0.0168	3	1	0.824	3.0025	11.49323
22	20.3	0.66	3.46	-0.44	20.3424	3.2445	4	2.78855	114.579	1.28979	0	1.2898	14.772	3.4641	0.0131	3	1	0.8204	2.8963	14.77179
22.1	26	0.82	2.99	-0.43	26.0366	3.1494	4	2.6971	116.7692	1.29563	0	1.2956	19.096	3.3143	0.0087	4	0.9761	0.8206	2.795	19.18825
22.2	29.6	0.92	1.99	-0.42	29.6244	3.1056	4	2.65018	117.926	1.30153	0	1.3015	21.761	3.2483	0.0051	4	0.957	0.8203	2.7439	21.95605
22.3	32.6	0.97	0.88	-0.43	32.6108	2.9745	4	2.60628	118.5475	1.30746	0	1.3075	23.942	3.0987	0.002	4	0.9396	0.8197	2.6975	24.25025
22.4	43.3	0.96	0.34	-0.42	43.3042	2.2169	5	2.42976	119.1634	1.31341	0	1.3134	31.971	2.2862	0.0006	4	0.8691	0.8288	2.5115	32.88858
22.5	60.5	0.92	0.39	-0.42	60.5048	1.5205	5	2.21339	119.6678	1.3194	0	1.3194	44.858	1.5544	0.0005	5	0.7833	0.8413	2.2854	47.05567
22.6	75.7	0.86	0.15	-0.42	75.7018	1.136	5	2.05821	119.7209	1.32538	0	1.3254	56.117	1.1563	0.0002	5	0.7224	0.8498	2.1249	59.73685
22.7	85.2	0.77	0.15	-0.41	85.2018	0.9037	6	1.95689	119.2004	1.33134	0	1.3313	62.997	0.9181	0.0001	6	0.6833	0.8547	2.0213	67.75006
22.8	89.6	0.7	0.15	-0.4	89.6018	0.7812	6	1.90176	118.6258	1.33727	0	1.3373	66.003	0.7931	0.0001	6	0.6622	0.8564	1.9659	71.4361
22.9	92.6	0.68	0.15	-0.4	92.6018	0.7343	6	1.87448	118.494	1.3432	0	1.3432	67.941	0.7451	0.0001	6	0.6522	0.8559	1.9388	73.82001
23	92.7	0.7	0.15	-0.4	92.7018	0.7551	6	1.88114	118.7087	1.34913	0	1.3491	67.712	0.7663	0.0001	6	0.6554	0.8528	1.9466	73.62564
23.1	90	0.75	0.15	-0.41	90.0018	0.8333	6	1.91674	119.1415	1.35509	0	1.3551	65.418	0.8461	0.0001	6	0.67	0.8473	1.9842	70.98138
23.2	89.3	0.79	0.15	-0.4	89.3018	0.8846	6	1.93501	119.5026	1.36107	0	1.3611	64.612	0.8983	0.0001	6	0.6778	0.8431	2.004	70.0712
23.3	90.6	0.71	0.15	-0.4	90.6018	0.7837	6	1.89864	118.7566	1.367	0	1.367	65.278	0.7957	0.0001	6	0.6645	0.8435	1.9682	71.13572
23.4	96.2	0.77	0.15	-0.4	96.2018	0.8004	6	1.88308	119.4965	1.37298	0	1.373	69.068	0.812	0.0001	6	0.6586	0.8423	1.9521	75.4911
23.5	106.6	0.92	0.15	-0.39	106.602	0.863	6	1.86756	121.0492	1.37903	0	1.379	76.302	0.8743	0.0001	6	0.6524	0.8413	1.935	83.66116
23.6	118.2	1.04	0.16	-0.38	118.202	0.8799	6	1.83784	122.1982	1.38514	0	1.3851	84.336	0.8903	0.0001	6	0.6407	0.8415	1.9036	92.90339
23.7	128.1	1.13	0.35	-0.38	128.104	0.8821	6	1.81166	123.0017	1.39129	0	1.3913	91.076	0.8918	0.0002	6	0.6307	0.8414	1.8763	100.7661
23.8	136.6	1.17	0.33	-0.38	136.604	0.8565	6	1.78209	123.4129	1.39746	0	1.3975	96.752	0.8653	0.0002	6	0.6194	0.8417	1.8461	107.5567
23.9	141.9	1.17	0.35	-0.38	141.904	0.8245	6	1.75879	123.5058	1.40364	0	1.4036	100.1	0.8327	0.0002	6	0.6108	0.8415	1.8227	111.7346
24	146.9	1.11	0.32	-0.38	146.904	0.7556	6	1.72293	123.205	1.4098	0	1.4098	103.2	0.7629	0.0002	6	0.5974	0.8425	1.7868	115.8409
24.1	151.1	1.07	0.38	-0.37	151.105	0.7081	6	1.69559	123.0052	1.41595	0	1.416	105.72	0.7148	0.0002	6	0.5873	0.8427	1.7596	119.2205
24.2	153.4	1.04	0.38	-0.36	153.405	0.678	6	1.6786	122.834	1.42209	0	1.4221	106.87	0.6843	0.0002	6	0.5813	0.8421	1.7431	120.9544
24.3	151.9	1.03	0.38	-0.38	151.905	0.6781	6	1.68197	122.7393	1.42823	0	1.4282	105.36	0.6845	0.0002	6	0.5834	0.8395	1.7477	119.3831
24.4	149	1.02	0.38	-0.37	149.005	0.6845	6	1.69109	122.6209	1.43436	0	1.4344	102.88	0.6912	0.0002	6	0.5877	0.8363	1.7583	116.6311
24.5	147.5	1	0.43	-0.36	147.505	0.6779	6	1.69191	122.4514	1.44048	0	1.4405	101.4	0.6846	0.0002	6	0.5888	0.8339	1.7604	115.1145
24.6	147.1	0.98	0.45	-0.36	147.106	0.6662	6	1.68812	122.2969	1.4466	0	1.4466	100.69	0.6728	0.0002	6	0.588	0.832	1.7576	114.5361
24.7	147.3	0.96	0.45	-0.36	147.306	0.6517	6	1.68177	122.1494	1.4527	0	1.4527	100.4	0.6582	0.0002	6	0.5862	0.8304	1.7521	114.4698
24.8	149.6	0.95	0.38	-0.36	149.605	0.635	6	1.66955	122.1105	1.45881	0	1.4588	101.55	0.6413	0.0002	6	0.5821	0.8295	1.7404	116.1402
24.9	153.1	0.96	0.45	-0.36	153.106	0.627	6	1.65824	122.2436	1.46492	0	1.4649	103.51	0.6331	0.0002	6	0.5781	0.8286	1.7293	118.7425
25	157.4	1	0.45	-0.34	157.406	0.6353	6	1.65228	122.6098	1.47105	0	1.4711	106	0.6413	0.0002	6	0.5762	0.8271	1.7235	121.8876
25.1	161.2	1.04	0.45	-0.33	161.206	0.6451	6	1.64831	122.955	1.4772	0	1.4772	108.13	0.6511	0.0002	6	0.5751	0.8254	1.7198	124.6001
25.2	165	1.08	0.45	-0.33	165.006	0.6545	6	1.64437	123.288	1.48336	0	1.4834	110.24	0.6605	0.0002	6	0.574	0.8237	1.7161	127.3024
25.3	168.1	1.12	0.5	-0.33	168.106	0.6663	6	1.64298	123.5995	1.48954	0	1.4895	111.86	0.6722	0.0002	6	0.5739	0.8218	1.7151	129.4061
25.4	169	1.18	0.53	-0.32	169.006	0.6982	6	1.6542	123.9943	1.49574	0	1.4957	111.99	0.7044	0.0002	6	0.5788	0.8185	1.7272	129.5714
25.5	167.4	1.22	0.53	-0.3	167.406	0.7288	6	1.66938	124.2151	1.50195	0	1.502	110.46	0.7354	0.0002	6	0.5853	0.8146	1.7436	127.7274
25.6	163.1	1.24	0.53	-0.31	163.106	0.7602	6	1.6899	124.2706	1.50817	0	1.5082	107.15	0.7673	0.0002	6	0.5941	0.8101	1.766	123.7251
25.7	156.6	1.23	0.53	-0.3	156.606	0.7854	6	1.71252	124.1121	1.51437	0	1.5144	102.41	0.7931	0.0003	6	0.6039	0.8053	1.7909	118.0397
25.8	147.9	1.16	0.53	-0.28	147.906	0.7843	6	1.73103	123.544	1.52055	0	1.5206	96.272	0.7924	0.0003	6	0.6123	0.8009	1.8122	110.8014
25.9	135.7	1.09	0.54	-0.28	135.707	0.8032	6	1.76638	122.8786	1.52669	0	1.5267	87.889	0.8123	0.0003	6	0.6276	0.7945	1.8514	100.7476
26	126.4	1.03	0.6	-0.26	126.407	0.8148	6	1.79418	122.2912	1.53281	0	1.5328	81.468	0.8248	0.0004	6	0.6398	0.7889	1.8827	93.10404
26.1	116.5	0.96	0.6	-0.24	116.507	0.824	6	1.82483	121.5773	1.53889	0	1.5389	74.709	0.835	0.0004	6	0.6532	0.783	1.9172	85.07168
26.2	102.3	0.97	0.6	-0.24	102.307	0.9481	6	1.90699	121.3361	1.54495	0	1.545	65.22	0.9627	0.0004	6	0.6871	0.771	2.0054	73.42048
26.3	85.2	1.11	0.6	-0.24	85.2073	1.3027	5	2.05623	121.8765	1.55105	0	1.5511	53.935	1.3269	0.0005	5	0.7476	0.7513	2.1634	59.40184
26.4	68	0.81	0.66	-0.22	68.0081	1.191	5	2.1075	119.0212	1.557	0	1.557	42.679	1.2189	0.0007	5	0.7713	0.7423	2.225	46.62014
26.5	55.6	0.88	0.68	-0.22	55.6083	1.5825	5	2.25275	119.1367	1.56296	0	1.563	34.579	1.6283	0.0009	5	0.8315	0.723	2.3812	36.9282
26.6	47.1	0.86	0.68	-0.2	47.1083	1.8256	5	2.3478	118.5639	1.56888	0	1.5689	29.027	1.8885	0.0011	5	0.8716	0.7094	2.4859	30.53264
26.7	50	0.92	0.52	-0.21	50.0064	1.8398	5	2.32988	119.203	1.57484	0	1.5748	30.753	1.8996	0.0008	5	0.8644	0.7091	2.4663	32.45688
26.8	64.9	1.02	0.24	-0.24	64.9029	1.5716	5	2.1991	120.5939	1.58087	0	1.5809	40.055	1.6108	0.0003	5	0.8107	0.7222	2.3241	43.21874
26.9	79.7	1.06	0.35	-0.24	79.7043	1.3299	5	2.08415	121.3764	1.58694	0	1.5869	49.225	1.3569	0.0003	5	0.7636	0.7338	2.2009	54.17624
27	90.2	1.07	-0.61	-0.22	90.1925	1.1864	6	2.01112	121.7467	1.59303	0	1.593	55.617	1.2077	-5E-04	5	0.7344	0.7405	2.1235	62.00203
27.1	93.5	1.12	-2.11	-0.22	93.4742	1.1982	6	2.00206	122.168	1.59914	0	1.5991	57.453	1.2191	-0.002	5	0.7311	0.7394	2.1141	64.2013
27.2	93.7	1.09	-2.16	-0.22	93.6736	1.1636	6	1.99313	121.9745	1.60524	0	1.6052	57.355	1.1839	-0.002	5	0.7283	0.7382	2.1061	64.23121
27.3	96.2	1.07	-2.29	-0.21	96.172	1.1126	6	1.97185	121.9032	1.61133	0	1.6113	58.685	1.1316	-0.002	5	0.7205	0.7386	2.0847	66.0059
27.4	96.7	1.09	-2.47	-0.2	96.6698	1.1276	6	1.97386	122.0513	1.61743	0	1.6174	58.767	1.1467	-0.002	5	0.7219	0.7361	2.0876	66.12953
27.5	93.8	1.14	-2.62	-0.2	93.7679	1.2158	6	2.00514	122.3052	1.62355	0	1.6236	56.755	1.2372	-0.002	5	0.735	0.73	2.1214	63.57273
27.6	91.8	1.18	-3.27	-0.2	91.76	1.286	6	2.02818	122.5047	1.62968	0	1.6297	55.306	1.3092	-0.003	5	0.7449	0.7249	2.1466	61.74723
27.7	93.3	1.17	-3.93	-0.2	93.2519	1.2547	6	2.01588	122.4818	1.6358	0	1.6358	56.007	1.2771	-0.003	5	0.7406	0.7242	2.1347	62.7064
27.8	99.2	1.13	-5.01	-0.2	99.1387	1.1398	6	1.96855	122.3765	1.64192	0	1.6419	59.38	1.159	-0.004	5	0.7222	0.7281	2.0856	67.08774
27.9	108.7	1.08	-6.34	-0.22	108.622	0.9943	6	1.89996	122.2682	1.64803	0	1.648	64.91	1.0096	-0.004	6	0.6952	0.7349	2.0138	74.29671
28	119	1.07	-7.13	-0.22	118.913	0.8998	6	1.84203	122.4209	1.65415	0	1.6542	70.887	0.9125	-0.004	6	0.6723	0.7405	1.9528	82.06638
28.1	129.6	1.12	-7.88	-0.22	129.504	0.8648	6	1.80253	122.9632	1.6603	0	1.6603	77	0.8761	-0.004	6	0.6565	0.744	1.9107	89.88791

28.2	142.6	1.17	-8.37	-0.22	142.498	0.8211	6	1.75623	123.5159	1.66648	0	1.6665	84.508	0.8308	-0.004	6	0.638	0.7484	1.8613	99.61365
28.3	152.4	1.22	-8.79	-0.2	152.292	0.8011	6	1.72731	123.9843	1.67268	0	1.6727	90.047	0.81	-0.004	6	0.6265	0.7506	1.8305	106.8431
28.4	153.4	1.24	-9.13	-0.22	153.288	0.8089	6	1.72792	124.1191	1.67888	0	1.6789	90.304	0.8179	-0.004	6	0.6273	0.7486	1.8318	107.257
28.5	149.2	1.2	-9.28	-0.2	149.086	0.8049	6	1.73568	123.8114	1.68507	0	1.6851	87.475	0.8141	-0.005	6	0.6314	0.7454	1.8416	103.8444
28.6	145.6	1.12	-9.36	-0.21	145.485	0.7698	6	1.73135	123.247	1.69123	0	1.6912	85.023	0.7789	-0.005	6	0.6307	0.744	1.8391	101.1007
28.7	143.7	1.03	-9.36	-0.21	143.585	0.7173	6	1.71636	122.602	1.69736	0	1.6974	83.593	0.7259	-0.005	6	0.6258	0.744	1.8254	99.7644
28.8	141.2	0.9	-9.33	-0.2	141.086	0.6379	6	1.69094	121.5719	1.70344	0	1.7034	81.824	0.6457	-0.005	6	0.6169	0.7455	1.8014	98.19653
28.9	137.8	0.9	-9.33	-0.2	137.686	0.6537	6	1.70579	121.5124	1.70952	0	1.7095	79.541	0.6619	-0.005	6	0.6237	0.7414	1.8183	95.27894
29	135.9	0.84	-9.33	-0.18	135.786	0.6186	6	1.69621	120.9737	1.71557	0	1.7156	78.149	0.6265	-0.005	6	0.6208	0.7408	1.8102	93.86448
29.1	134.8	0.66	-9.25	-0.18	134.687	0.49	6	1.64082	119.1893	1.72153	0	1.7215	77.237	0.4964	-0.005	6	0.6003	0.7466	1.7555	93.82339
29.2	133.7	0.73	-9.03	-0.17	133.589	0.5465	6	1.67045	119.907	1.72752	0	1.7275	76.33	0.5536	-0.005	6	0.6125	0.7406	1.7867	92.29933
29.3	133.2	0.82	-9.03	-0.16	133.089	0.6161	6	1.70217	120.7485	1.73356	0	1.7336	75.772	0.6243	-0.005	6	0.6254	0.7344	1.8198	91.16687
29.4	122.6	0.93	-2.74	-0.18	122.566	0.7588	6	1.78536	121.4687	1.73963	0	1.7396	69.455	0.7697	-0.002	6	0.6593	0.7205	1.9082	82.27516
29.5	123.5	0.67	-3.21	-0.18	123.461	0.5427	6	1.69693	119.0871	1.74559	0	1.7456	69.727	0.5505	-0.002	6	0.6259	0.731	1.8196	84.09007
29.6	120.7	0.83	-3.72	-0.16	120.654	0.6879	6	1.76491	120.5979	1.75162	0	1.7516	67.882	0.6981	-0.002	6	0.653	0.7195	1.8901	80.85567
29.7	108	0.98	-3.99	-0.16	107.951	0.9078	6	1.87699	121.5421	1.75769	0	1.7577	60.416	0.9228	-0.003	6	0.6986	0.7015	2.0092	70.40081
29.8	106.3	0.75	-3.64	-0.16	106.255	0.7059	6	1.81595	119.5464	1.76367	0	1.7637	59.247	0.7178	-0.003	6	0.6761	0.7079	1.9493	69.90756
29.9	106.5	0.73	-3.47	-0.16	106.458	0.6857	6	1.80792	119.3532	1.76964	0	1.7696	59.158	0.6973	-0.002	6	0.6737	0.7072	1.9421	69.96751
30	105.7	0.87	-3.53	-0.16	105.657	0.8234	6	1.85806	120.6186	1.77567	0	1.7757	58.502	0.8375	-0.002	6	0.6937	0.6983	1.9941	68.55368
30.1	106.4	0.89	-3.98	-0.17	106.351	0.8369	6	1.86012	120.8009	1.78171	0	1.7817	58.691	0.8511	-0.003	6	0.6951	0.6961	1.9968	68.79765
30.2	113.5	0.87	-4.98	-0.18	113.439	0.7669	6	1.81478	120.7919	1.78775	0	1.7878	62.454	0.7792	-0.003	6	0.6772	0.7011	1.949	73.97605
30.3	114.2	0.92	-7.53	-0.16	114.108	0.8063	6	1.82607	121.2151	1.79381	0	1.7938	62.612	0.8191	-0.005	6	0.6821	0.6977	1.9611	74.05342
30.4	105.4	1.02	-8.43	-0.15	105.297	0.9687	6	1.90316	121.7741	1.7999	0	1.7999	57.501	0.9855	-0.006	6	0.7138	0.6844	2.0437	66.94403
30.5	91.4	1.17	-8.68	-0.14	91.2938	1.2816	6	2.02888	122.43	1.80602	0	1.806	49.55	1.3074	-0.007	5	0.7655	0.6642	2.1786	56.16964
30.6	80.5	1.36	-8.85	-0.14	80.3917	1.6917	5	2.15025	123.2209	1.81218	0	1.8122	43.362	1.7307	-0.008	5	0.8153	0.6449	2.3086	47.89344
30.7	69	1.53	-8.94	-0.14	68.8906	2.2209	5	2.27982	123.7061	1.81837	0	1.8184	36.886	2.2811	-0.01	5	0.8695	0.6245	2.4488	39.58674
30.8	55.2	1.66	-9.66	-0.14	55.0818	3.0137	4	2.44168	123.7572	1.82456	0	1.8246	29.189	3.117	-0.013	4	0.937	0.6002	2.6261	30.20775
30.9	45.7	1.67	-9.96	-0.14	45.5781	3.664	4	2.5598	123.3393	1.83072	0	1.8307	23.896	3.8174	-0.016	4	0.9875	0.5819	2.7585	24.06012
31	39.9	1.66	-10.11	-0.13	39.7763	4.1733	4	2.6416	122.9632	1.83687	0	1.8369	20.654	4.3754	-0.019	3	1	0.576	2.8473	20.65436
31.1	39.1	1.61	-10.04	-0.13	38.9771	4.1306	4	2.64483	122.6899	1.843	0	1.843	20.149	4.3356	-0.019	3	1	0.5741	2.8529	20.14867
31.2	38.8	1.5	-9.98	-0.11	38.6778	3.8782	4	2.62832	122.1533	1.84911	0	1.8491	19.917	4.0729	-0.02	3	1	0.5722	2.8392	19.91698
31.3	38.8	1.35	-10.01	-0.12	38.6775	3.4904	4	2.59705	121.3824	1.85518	0	1.8552	19.848	3.6663	-0.02	3	1	0.5704	2.8111	19.84835
31.4	47.2	1.21	-10.01	-0.11	47.0775	2.5702	5	2.44448	121.0606	1.86123	0	1.8612	24.294	2.676	-0.016	4	0.9466	0.5859	2.6467	25.0374
31.5	59.4	1.17	-10.13	-0.12	59.276	1.9738	5	2.29352	121.3766	1.8673	0	1.8673	30.744	2.038	-0.013	5	0.8841	0.6052	2.481	32.83665
31.6	63.8	1.15	-10.44	-0.1	63.6722	1.8061	5	2.24474	121.425	1.87337	0	1.8734	32.988	1.8609	-0.012	5	0.8645	0.6103	2.4286	35.64229
31.7	65.7	1.16	-10.64	-0.1	65.5698	1.7691	5	2.22922	121.56	1.87945	0	1.8795	33.888	1.8213	-0.012	5	0.8587	0.6106	2.4123	36.75421
31.8	64.3	1.21	-10.79	-0.1	64.1679	1.8857	5	2.25457	121.816	1.88554	0.00312	1.8824	33.086	1.9428	-0.013	5	0.8692	0.6061	2.4398	35.67565
31.9	64	1.27	-10.96	-0.09	63.8659	1.9885	5	2.27146	122.1586	1.89165	0.00624	1.8854	32.87	2.0492	-0.013	5	0.8761	0.6028	2.4577	35.30872
32	66.7	1.37	-11.12	-0.1	66.5639	2.0582	5	2.26821	122.8141	1.89779	0.00936	1.8884	34.243	2.1186	-0.013	5	0.8743	0.6026	2.4525	36.83
32.1	75.3	1.41	-11.27	-0.12	75.1621	1.876	5	2.20212	123.321	1.90396	0.01248	1.8915	38.731	1.9247	-0.011	5	0.8459	0.6118	2.3791	42.35823
32.2	82.5	1.39	-11.46	-0.12	82.3597	1.6877	5	2.14181	123.4395	1.91013	0.0156	1.8945	42.464	1.7278	-0.01	5	0.8211	0.6199	2.3135	47.12934
32.3	87.4	1.35	-11.59	-0.13	87.2581	1.5471	5	2.09781	123.3668	1.9163	0.01872	1.8976	44.974	1.5819	-0.01	5	0.8033	0.6255	2.2665	50.45079
32.4	90.4	0.95	-11.66	-0.14	90.2573	1.0526	6	1.97784	120.878	1.92234	0.02184	1.9005	46.48	1.0755	-0.01	5	0.7568	0.642	2.1441	53.59379
32.5	91.8	0.95	-11.66	-0.14	91.6573	1.0365	6	1.96844	120.9156	1.92839	0.02496	1.9034	47.141	1.0587	-0.01	5	0.7532	0.6426	2.1343	54.49132
32.6	91.4	1.18	-11.74	-0.14	91.2563	1.2931	6	2.03155	122.4913	1.93451	0.02808	1.9064	46.853	1.3211	-0.01	5	0.7779	0.6326	2.1987	53.39841
32.7	93.4	1.41	-11.73	-0.17	93.2564	1.512	5	2.06975	123.8471	1.94071	0.0312	1.9095	47.822	1.5441	-0.01	5	0.7924	0.6264	2.2365	54.05581
32.8	99.9	1.59	-11.68	-0.22	99.757	1.5939	5	2.06401	124.8906	1.94695	0.03432	1.9126	51.139	1.6256	-0.009	5	0.7891	0.6268	2.2275	57.93816
32.9	109.7	1.66	-11.74	-0.21	109.556	1.5152	6	2.01941	125.4343	1.95322	0.03744	1.9158	56.167	1.5427	-0.008	5	0.7704	0.633	2.1779	64.36847
33	119.1	1.73	-11.81	-0.2	118.955	1.4543	6	1.98135	125.9373	1.95952	0.04056	1.919	60.968	1.4787	-0.008	5	0.7544	0.6382	2.1356	70.56565
33.1	130.1	1.77	-11.93	-0.21	129.954	1.362	6	1.93397	126.3203	1.96583	0.04368	1.9222	66.586	1.3829	-0.007	5	0.7348	0.6449	2.0836	78.00809
33.2	143.4	1.78	-12.01	-0.22	143.253	1.2426	6	1.87585	126.5991	1.97216	0.0468	1.9254	73.379	1.2599	-0.006	6	0.7109	0.6534	2.0204	87.24532
33.3	155.6	1.77	-12.04	-0.23	155.453	1.1386	6	1.82394	126.7572	1.9785	0.04992	1.9286	79.579	1.1533	-0.006	6	0.6897	0.661	1.9643	95.87576
33.4	163.9	1.82	-12.04	-0.22	163.753	1.1114	6	1.80048	127.0879	1.98486	0.05304	1.9318	83.739	1.1251	-0.006	6	0.68	0.6641	1.9384	101.5311
33.5	170.8	1.87	-11.98	-0.23	170.653	1.0958	6	1.78342	127.3869	1.99123	0.05616	1.9351	87.161	1.1087	-0.005	6	0.6729	0.6662	1.9196	106.1868
33.6	175	1.88	-11.96	-0.24	174.854	1.0752	6	1.77013	127.4852	1.9976	0.05928	1.9383	89.178	1.0876	-0.005	6	0.6677	0.6675	1.9054	109.0503
33.7	175.8	1.92	-11.96	-0.25	175.654	1.0931	6	1.7738	127.6504	2.00398	0.0624	1.9416	89.437	1.1057	-0.005	6	0.6693	0.6661	1.9093	109.3185
33.8	176	1.93	-11.96	-0.26	175.854	1.0975	6	1.7747	127.6912	2.01037	0.06552	1.9449	89.387	1.1102	-0.005	6	0.67	0.6651	1.9106	109.274
33.9	174.4	1.93	-11.96	-0.26	174.254	1.1076	6	1.78032	127.6689	2.01675	0.06864	1.9481	88.412	1.1206	-0.005	6	0.6726	0.6633	1.9172	107.9671
34	174.5	1.95	-11.89	-0.28	174.354	1.1184	6	1.78314	127.7458	2.02314	0.07176	1.9514	88.313	1.1315	-0.005	6	0.674	0.662	1.9205	107.812
34.1	178.8	2.09	-11.89	-0.28	178.654	1.1699	6	1.78973	128.3125	2.02955	0.07488	1.9547	90.36	1.1833	-0.005	6	0.6764	0.6603	1.9263	110.2116
34.2	172.1	2.43	-11.89	-0.28	171.954	1.4132	6	1.86086	129.3221	2.03602	0.078	1.958	86.781	1.4301	-0.006	6	0.7048	0.6481	2.0005	104.0691
34.3	152.3	2.76	-11.89	-0.28	152.154	1.814	6	1.97695	129.9555	2.04252	0.08112	1.9614	76.533	1.8386	-0.006	5	0.7522	0.6286	2.1245	89.18078
34.4	124.6	2.86	-11.81	-0.3	124.455	2.298	5	2.11171	129.7258	2.049	0.08424	1.9648	62.301	2.3365	-0.008	5	0.8085	0.6063	2.2718	70.1416
34.5	109.9	2.71	-11.81	-0.3	109.755	2.4691	5	2.17134	129.0251	2.05546	0.08736	1.9681	54.723	2.5163	-0.009	5	0.8344	0.5958	2.3396	60.64465
34.6	117.8	2.5	-11.81	-0.3	117.655	2.1249	5	2.1028	128.6044	2.06189	0.09048	1.9714	58.635	2.1628	-0.008	5	0.807	0.6052	2.267	66.11829
34.7	131.7	2.47	-11.73	-0.3	131.556	1.8775	5	2.03041	128.7885	2.06832	0.0936	1.9747	65.573	1.9075	-0.007	5	0.7772	0.6158	2.1883	75.3548
34.8	142.9	2.49	-11.66	-0.3	142.757	1.7442	6	1.98285	129.0468	2.07478	0.09672	1.9781	71.122	1.7699	-0.007	5	0.7575	0.6226	2.1363	82.77263
34.9	147.6	2.17	-11.64	-0.3	147.458	1.4716	6	1.91934	128.1193	2.08118	0.09984	1.9813	73.373	1.4927	-0.006	5	0.7328	0.6315	2.071	86.76144
35	153.2	1.89	-11.58	-0.31	153.058	1.2348	6	1.85352	127.1993	2.08754	0.10296	1.9846	76.072	1.2519	-0.006	6	0.7071	0.641	2.0031	91.45949
35.1	159.9	1.99	-11.58	-0.32	159.758	1.2456	6	1.84312	127.6811	2.09393	0.10608	1.9879	79.314	1.2622	-0.006	6	0.7025	0.6421	1.9907	95.67787
35.2	163.9	2.11	-11.58	-0.32	163.758	1.2885	6	1.84617	128.1698	2.10034	0.1092	1.9911	81.189	1.3052	-0.006	6	0.7035	0.641	1.9929	97.92617

35.3	162	2.25	-11.58	-0.32	161.858	1.3901	6	1.87354	128.6114	2.10677	0.11232	1.9945	80.098	1.4084	-0.006	6	0.7146	0.6357	2.0216	95.98146
35.4	155.3	1.85	-11.58	-0.32	155.158	1.1923	6	1.83859	127.0761	2.11312	0.11544	1.9977	76.611	1.2088	-0.006	6	0.7024	0.6399	1.9892	92.56039
35.5	145	1.5	-11.58	-0.32	144.858	1.0355	6	1.8177	125.374	2.11939	0.11856	2.0008	71.34	1.0509	-0.007	6	0.6962	0.6418	1.9724	86.57493
35.6	136	1.73	-11.52	-0.32	135.859	1.2734	6	1.89975	126.2614	2.1257	0.12168	2.004	66.732	1.2936	-0.007	5	0.7294	0.6276	2.0593	79.32184
35.7	141.8	1.51	-11.51	-0.33	141.659	1.0659	6	1.83337	125.3682	2.13197	0.1248	2.0072	69.514	1.0822	-0.007	6	0.7033	0.6374	1.9904	84.05455
35.8	173.2	1.69	-11.49	-0.33	173.059	0.9765	6	1.74406	126.6805	2.1383	0.12792	2.0104	85.019	0.9888	-0.006	6	0.6651	0.6525	1.8896	105.4064
35.9	190.8	1.74	-11.43	-0.33	190.66	0.9126	6	1.69338	127.1301	2.14466	0.13104	2.0136	93.62	0.923	-0.005	6	0.644	0.6608	1.8337	117.7243
36	191.8	1.79	-11.47	-0.36	191.66	0.934	6	1.69877	127.3501	2.15103	0.13416	2.0169	93.962	0.9446	-0.005	6	0.6462	0.6591	1.8392	118.048
36.1	198.9	1.87	-11.51	-0.37	198.759	0.9408	6	1.68979	127.7588	2.15742	0.13728	2.0201	97.321	0.9512	-0.005	6	0.6424	0.6601	1.8286	122.6459
36.2	208.2	1.96	-11.51	-0.38	208.059	0.942	6	1.67618	128.2142	2.16383	0.1404	2.0234	101.76	0.9519	-0.005	6	0.6365	0.6619	1.8129	128.7969
36.3	214.1	2.05	-11.51	-0.38	213.959	0.9581	6	1.67295	128.6109	2.17026	0.14352	2.0267	104.5	0.968	-0.005	6	0.635	0.6619	1.8085	132.4746
36.4	213.6	2.16	-11.51	-0.39	213.459	1.0119	6	1.69077	128.9877	2.17671	0.14664	2.0301	104.08	1.0223	-0.005	6	0.6422	0.6581	1.8271	131.4014
36.5	225.7	2.1	-11.51	-0.38	225.559	0.931	6	1.64807	128.916	2.18315	0.14976	2.0334	109.85	0.9401	-0.004	6	0.625	0.6648	1.7814	140.3466
36.6	244.2	1.79	-11.51	-0.38	244.059	0.7334	6	1.55033	127.9396	2.18955	0.15288	2.0367	118.76	0.7401	-0.004	6	0.5861	0.6813	1.679	155.7252
36.7	247.4	1.47	-11.51	-0.38	247.259	0.5945	6	1.48371	126.5303	2.19588	0.156	2.0399	120.14	0.5999	-0.004	6	0.5606	0.6921	1.6114	160.3039
36.8	241.5	1.29	-11.49	-0.37	241.359	0.5345	6	1.4611	125.5156	2.20215	0.15912	2.043	117.06	0.5394	-0.004	6	0.5527	0.6952	1.5902	157.1198
36.9	229.3	1.27	-11.46	-0.36	229.16	0.5542	6	1.48845	125.2748	2.20842	0.16224	2.0462	110.91	0.5596	-0.004	6	0.5646	0.6891	1.621	147.8115
37	211.3	1.29	-11.48	-0.36	211.159	0.6109	6	1.54295	125.1896	2.21467	0.16536	2.0493	101.96	0.6174	-0.005	6	0.5875	0.6782	1.6809	133.9189
37.1	191.3	1.29	-11.43	-0.35	191.16	0.6748	6	1.6039	124.9469	2.22092	0.16848	2.0524	92.056	0.6828	-0.005	6	0.6133	0.6661	1.7483	118.935
37.2	170	1.28	-11.43	-0.34	169.86	0.7536	6	1.67406	124.6018	2.22715	0.1716	2.0556	81.551	0.7636	-0.006	6	0.6432	0.6524	1.8263	103.3578
37.3	149.7	1.32	-11.43	-0.34	149.56	0.8826	6	1.76086	124.5166	2.23338	0.17472	2.0587	71.564	0.896	-0.007	6	0.6796	0.6361	1.9217	88.57243
37.4	135.9	1.35	-11.43	-0.34	135.76	0.9944	6	1.8267	124.4449	2.2396	0.17784	2.0618	64.76	1.0111	-0.008	6	0.7075	0.6238	1.9943	78.71631
37.5	128.6	1.38	-11.43	-0.34	128.46	1.0743	6	1.86698	124.4709	2.24582	0.18096	2.0649	61.125	1.0934	-0.008	6	0.7245	0.6161	2.0388	73.48623
37.6	125.5	1.43	-11.37	-0.34	125.361	1.1407	6	1.89236	124.6717	2.25206	0.18408	2.068	59.531	1.1616	-0.008	5	0.7352	0.611	2.0664	71.0909
37.7	125	1.5	-11.36	-0.34	124.861	1.2013	6	1.90888	125.0117	2.25831	0.1872	2.0711	59.197	1.2235	-0.008	5	0.7419	0.6076	2.0838	70.39904
37.8	126	1.57	-11.36	-0.34	125.861	1.2474	6	1.91752	125.3649	2.26458	0.19032	2.0743	59.586	1.2703	-0.008	5	0.7454	0.6055	2.0925	70.72449
37.9	129.2	1.64	-11.36	-0.32	129.061	1.2707	6	1.91516	125.7453	2.27086	0.19344	2.0774	61.032	1.2935	-0.008	5	0.7442	0.6053	2.089	72.52644
38	132.6	1.72	-11.36	-0.32	132.461	1.2985	6	1.91355	126.1572	2.27717	0.19656	2.0806	62.57	1.3212	-0.008	5	0.7434	0.6049	2.0863	74.42769
38.1	137	1.79	-11.36	-0.32	136.861	1.3079	6	1.90559	126.5288	2.2835	0.19968	2.0838	64.582	1.3301	-0.008	5	0.7399	0.6057	2.0768	77.03326
38.2	141	1.84	-11.36	-0.34	140.861	1.3063	6	1.89631	126.8006	2.28984	0.2028	2.087	66.396	1.3278	-0.007	5	0.736	0.6066	2.0661	79.4389
38.3	143.5	1.89	-11.36	-0.33	143.361	1.3184	6	1.89372	127.0397	2.29619	0.20592	2.0903	67.486	1.3398	-0.007	5	0.7349	0.6063	2.0629	80.83506
38.4	144.2	1.92	-11.36	-0.32	144.061	1.3328	6	1.89558	127.1668	2.30255	0.20904	2.0935	67.713	1.3544	-0.007	5	0.7358	0.6053	2.065	81.08849
38.5	144.5	1.6	-11.31	-0.32	144.362	1.1083	6	1.83897	125.8379	2.30884	0.21216	2.0967	67.751	1.1263	-0.007	6	0.7144	0.6135	2.0082	82.36606
38.6	144.2	1.39	-11.28	-0.33	144.062	0.9649	6	1.79877	124.8033	2.31508	0.21528	2.0998	67.505	0.9806	-0.007	6	0.6993	0.6192	1.9682	82.9536
38.7	144.2	1.53	-11.28	-0.34	144.062	1.062	6	1.82694	125.5055	2.32136	0.2184	2.103	67.401	1.0794	-0.007	6	0.7105	0.6139	1.9971	82.23099
38.8	144.9	1.64	-11.28	-0.34	144.762	1.1329	6	1.84466	126.0253	2.32766	0.22152	2.1061	67.628	1.1514	-0.007	6	0.7175	0.6103	2.0152	82.14681
38.9	146.5	1.72	-11.28	-0.36	146.362	1.1752	6	1.85226	126.4006	2.33398	0.22464	2.1093	68.281	1.1942	-0.007	6	0.7205	0.6083	2.0226	82.80461
39	153.3	1.8	-11.28	-0.36	153.162	1.1752	6	1.83818	126.844	2.34032	0.22776	2.1126	71.393	1.1935	-0.007	6	0.7143	0.6103	2.0061	86.984
39.1	160.7	1.92	-11.28	-0.36	160.562	1.1958	6	1.82897	127.4313	2.34669	0.23088	2.1158	74.778	1.2135	-0.007	6	0.71	0.6114	1.9944	91.42036
39.2	169	2.03	-11.28	-0.36	168.862	1.2022	6	1.81527	127.9619	2.35309	0.234	2.1191	78.576	1.2192	-0.006	6	0.7039	0.6133	1.9779	96.51534
39.3	178.4	2.13	-11.28	-0.36	178.262	1.1949	6	1.79702	128.4458	2.35951	0.23712	2.1224	82.879	1.2109	-0.006	6	0.696	0.616	1.9567	102.4124
39.4	186	2.23	-11.28	-0.36	185.862	1.1998	6	1.78582	128.8834	2.36596	0.24024	2.1257	86.322	1.2153	-0.006	6	0.691	0.6175	1.9433	107.0849
39.5	192.2	2.35	-11.23	-0.36	192.063	1.2236	6	1.78231	129.3469	2.37242	0.24336	2.1291	89.096	1.2389	-0.006	6	0.6893	0.6176	1.9383	110.7167
39.6	193.2	2.45	-11.27	-0.37	193.062	1.269	6	1.79244	129.6645	2.37891	0.24648	2.1324	89.421	1.2849	-0.006	6	0.6934	0.6152	1.9486	110.8562
39.7	190.9	2.5	-11.21	-0.38	190.763	1.3105	6	1.80628	129.7831	2.3854	0.2496	2.1358	88.2	1.3271	-0.006	6	0.6993	0.6119	1.9638	108.9421
39.8	185.8	2.19	-11.21	-0.36	185.663	1.1796	6	1.78077	128.7483	2.39183	0.25272	2.1391	85.676	1.195	-0.006	6	0.6904	0.6151	1.9401	106.5351
39.9	178.4	2.14	-11.21	-0.38	178.263	1.2005	6	1.79848	128.4801	2.39826	0.25584	2.1424	82.087	1.2169	-0.006	6	0.6985	0.6109	1.9609	101.5407
40	170.4	2.13	-11.21	-0.38	170.263	1.251	6	1.82521	128.3339	2.40467	0.25896	2.1457	78.23	1.2689	-0.006	6	0.7102	0.6053	1.9911	96.01829
40.1	162	2.07	-11.19	-0.38	161.863	1.2789	6	1.84734	128.0014	2.41107	0.26208	2.149	74.198	1.2982	-0.007	6	0.7202	0.6003	2.0171	90.46552
40.2	156.8	2.02	-11.13	-0.38	156.664	1.2894	6	1.85978	127.7429	2.41746	0.2652	2.1523	71.667	1.3096	-0.007	6	0.7261	0.5972	2.0321	87.05142
40.3	166.8	2.03	-11.13	-0.4	166.664	1.218	6	1.82331	127.9299	2.42386	0.26832	2.1555	76.194	1.236	-0.007	6	0.711	0.603	1.9919	93.59334
40.4	176.7	2.13	-11.13	-0.4	176.564	1.2064	6	1.80289	128.4225	2.43028	0.27144	2.1588	80.661	1.2232	-0.006	6	0.7021	0.6062	1.9682	99.75374
40.5	186	2.26	-11.13	-0.4	185.864	1.2159	6	1.79004	128.9812	2.43673	0.27456	2.1622	84.835	1.2321	-0.006	6	0.6962	0.608	1.9524	105.4018
40.6	192.6	2.35	-11.13	-0.4	192.464	1.221	6	1.78103	129.352	2.44319	0.27768	2.1655	87.748	1.2367	-0.006	6	0.6923	0.6091	1.9416	109.3828
40.7	197.6	2.42	-11.13	-0.4	197.464	1.2255	6	1.77466	129.6293	2.44968	0.2808	2.1689	89.915	1.2409	-0.006	6	0.6896	0.6096	1.9341	112.356
40.8	200.7	2.47	-11.06	-0.4	200.565	1.2315	6	1.77166	129.817	2.45617	0.28392	2.1723	91.2	1.2468	-0.005	6	0.6884	0.6095	1.9305	114.1146
40.9	204.6	2.52	-11.06	-0.4	204.465	1.2325	6	1.76629	130.0106	2.46267	0.28704	2.1756	92.848	1.2475	-0.005	6	0.6862	0.6098	1.9244	116.4163
41	207.6	2.56	-11.06	-0.4	207.465	1.234	6	1.76244	130.1613	2.46918	0.29016	2.179	94.077	1.2488	-0.005	6	0.6847	0.6098	1.92	118.1431
41.1	208	2.56	-11.06	-0.4	207.865	1.2316	6	1.76126	130.166	2.47568	0.29328	2.1824	94.111	1.2464	-0.005	6	0.6845	0.6092	1.9191	118.2589
41.2	205.5	2.52	-11.06	-0.4	205.365	1.2271	6	1.7636	130.0213	2.48218	0.2964	2.1858	92.819	1.2421	-0.005	6	0.686	0.6079	1.9227	116.5643
41.3	201.1	2.49	-11.01	-0.41	200.965	1.239	6	1.77303	129.8809	2.48868	0.29952	2.1892	90.663	1.2546	-0.006	6	0.6905	0.6053	1.934	113.5435
41.4	198.8	2.46	-10.98	-0.42	198.666	1.2383	6	1.77619	129.7641	2.49517	0.30264	2.1925	89.472	1.254	-0.006	6	0.6923	0.6039	1.9383	111.9569
41.5	199.1	2.42	-10.98	-0.4	198.966	1.2163	6	1.77001	129.6478	2.50165	0.30576	2.1959	89.469	1.2318	-0.006	6	0.6902	0.6042	1.9324	112.1761
41.6	199.6	2.11	-10.97	-0.41	199.466	1.0578	6	1.72505	128.6509	2.50808	0.30888	2.1992	89.559	1.0713	-0.006	6	0.6732	0.6111	1.8873	113.7478
41.7	198.5	2.17	-10.91	-0.4	198.366	1.0939	6	1.73724	128.8426	2.51452	0.312	2.2025	88.922	1.108	-0.006	6	0.6783	0.6082	1.9004	112.5694
41.8	195.4	2.24	-10.91	-0.42	195.266	1.1472	6	1.75693	129.0365	2.52098	0.31512	2.2059	87.379	1.1622	-0.006	6	0.6866	0.6039	1.9217	110.0004
41.9	189	2.23	-10.88	-0.42	188.867	1.1807	6	1.77597	128.9225	2.52742	0.31824	2.2092	84.348	1.1967	-0.006	6	0.6951	0.5995	1.9435	105.5758
42	183.9	2.18	-10.87	-0.44	183.767	1.1863	6	1.78563	128.6898	2.53386	0.32136	2.2125	81.913	1.2029	-0.006	6	0.6998	0.5968	1.9554	102.2204
42.1	181.9	2.14	-10.86	-0.44	181.767	1.1773	6	1.78653	128.5276	2.54028	0.32448	2.2158	80.886	1.194	-0.006	6	0.7007	0.5958	1.9574	100.913
42.2	179.1	2.14	-10.83	-0.44	178.967	1.1958	6	1.79606	128.4898	2.54671	0.3276	2.2191	79.501	1.213	-0.006	6	0.7051	0.5932	1.9685	98.90872
42.3	176.2	2.13	-10.91	-0.42	176.066	1.2098	6	1.80462	128.4156	2.55313	0.33072	2.2224	78.074	1.2276	-0.006	6	0.7091	0.5908	1.9787	96.88713

42.4	170.8	2.13	-10.83	-0.42	170.667	1.248	6	1.82375	128.3397	2.55955	0.33384	2.2257	75.53	1.267	-0.007	6	0.7176	0.5865	2.0004	93.18266
42.5	163.5	2.12	-10.83	-0.42	163.367	1.2977	6	1.84912	128.1986	2.56596	0.33696	2.229	72.141	1.3184	-0.007	6	0.7287	0.581	2.0294	88.29984
42.6	152.3	2.11	-10.83	-0.42	152.167	1.3866	6	1.89125	127.9908	2.57235	0.34008	2.2323	67.015	1.4105	-0.007	5	0.7471	0.5725	2.0771	80.94293
42.7	141.7	2.08	-10.83	-0.43	141.567	1.4693	6	1.93112	127.7099	2.57874	0.3432	2.2355	62.172	1.4965	-0.008	5	0.7646	0.5645	2.1227	74.14376
42.8	133.8	2.01	-10.83	-0.42	133.667	1.5037	6	1.95573	127.3194	2.58511	0.34632	2.2388	58.551	1.5334	-0.009	5	0.7759	0.5591	2.152	69.25927
42.9	129.5	1.93	-10.83	-0.42	129.367	1.4919	6	1.96325	126.9424	2.59145	0.34944	2.242	56.546	1.5224	-0.009	5	0.78	0.5567	2.1624	66.70349
43	126.9	1.89	-10.83	-0.42	126.767	1.4909	6	1.96928	126.7397	2.59779	0.35256	2.2452	55.304	1.5221	-0.009	5	0.7832	0.5548	2.1704	65.10233
43.1	126.1	1.86	-10.83	-0.42	125.967	1.4766	6	1.96825	126.6072	2.60412	0.35568	2.2484	54.866	1.5077	-0.009	5	0.7833	0.5541	2.1703	64.60153
43.2	127.5	1.81	-10.83	-0.42	127.367	1.4211	6	1.95313	126.4347	2.61044	0.3588	2.2516	55.407	1.4508	-0.009	5	0.7775	0.5559	2.1547	65.54352
43.3	128.7	1.77	-10.8	-0.42	128.568	1.3767	6	1.94056	126.2941	2.61676	0.36192	2.2548	55.858	1.4053	-0.009	5	0.7728	0.5573	2.1419	66.33565
43.4	130.3	1.75	-10.8	-0.43	130.168	1.3444	6	1.92951	126.2411	2.62307	0.36504	2.258	56.485	1.3721	-0.009	5	0.7685	0.5585	2.1303	67.31779
43.5	132.3	1.75	-10.78	-0.44	132.168	1.3241	6	1.92015	126.2783	2.62938	0.36816	2.2612	57.287	1.351	-0.009	5	0.7649	0.5594	2.1203	68.48688
43.6	133.7	1.76	-10.76	-0.44	133.568	1.3177	6	1.9154	126.3457	2.6357	0.37128	2.2644	57.822	1.3442	-0.009	5	0.7631	0.5596	2.1152	69.24244
43.7	131.9	1.71	-10.76	-0.42	131.768	1.2977	6	1.915	126.1017	2.64201	0.3744	2.2676	56.944	1.3243	-0.009	5	0.7636	0.5587	2.1162	68.18556
43.8	128.3	1.65	-10.77	-0.44	128.168	1.2874	6	1.92125	125.7728	2.64829	0.37752	2.2708	55.276	1.3145	-0.009	5	0.7671	0.5567	2.125	66.03445
43.9	126.4	1.6	-10.81	-0.44	126.268	1.2672	6	1.92119	125.5112	2.65457	0.38064	2.2739	54.361	1.2944	-0.009	5	0.7679	0.5558	2.1265	64.92615
44	125.7	1.57	-10.76	-0.45	125.568	1.2503	6	1.91895	125.3592	2.66084	0.38376	2.2771	53.976	1.2774	-0.009	5	0.7675	0.5553	2.1251	64.50552
44.1	126.5	1.63	-10.76	-0.45	126.368	1.2899	6	1.92627	125.6491	2.66712	0.38688	2.2802	54.249	1.3177	-0.009	5	0.7704	0.5535	2.1325	64.70549
44.2	128.2	1.73	-10.82	-0.45	128.068	1.3509	6	1.93602	126.1173	2.67343	0.39	2.2834	54.915	1.3797	-0.009	5	0.7741	0.5513	2.1419	65.33401
44.3	126.8	1.83	-10.83	-0.45	126.667	1.4447	6	1.95987	126.5017	2.67975	0.39312	2.2866	54.223	1.476	-0.009	5	0.7839	0.5466	2.1672	64.04558
44.4	118.4	1.87	-10.83	-0.45	118.267	1.5812	6	2.00864	126.4926	2.68608	0.39624	2.2898	50.476	1.6179	-0.01	5	0.8049	0.5372	2.222	58.6792
44.5	110	1.89	-10.83	-0.45	109.867	1.7203	5	2.05715	126.3907	2.6924	0.39936	2.293	46.739	1.7635	-0.011	5	0.826	0.5279	2.2769	53.47151
44.6	104.2	1.64	-10.83	-0.45	104.067	1.5759	5	2.04733	125.2203	2.69866	0.40248	2.2962	44.147	1.6179	-0.012	5	0.8242	0.5281	2.2717	50.58999
44.7	101.4	1.49	-10.83	-0.45	101.267	1.4714	5	2.03545	124.4519	2.70488	0.4056	2.2993	42.867	1.5117	-0.012	5	0.8207	0.5289	2.2623	49.26523
44.8	102.1	1.48	-10.83	-0.45	101.967	1.4514	5	2.02923	124.4194	2.7111	0.40872	2.3024	43.11	1.4911	-0.012	5	0.8185	0.5292	2.256	49.64402
44.9	106.9	1.51	-10.84	-0.45	106.767	1.4143	6	2.00694	124.6785	2.71733	0.41184	2.3055	45.131	1.4512	-0.011	5	0.8089	0.5326	2.2304	52.37318
45	116.7	1.71	-10.91	-0.45	116.566	1.467	6	1.99028	125.8028	2.72362	0.41496	2.3087	49.311	1.5021	-0.011	5	0.8003	0.5356	2.2074	57.62445
45.1	122.4	1.83	-10.91	-0.45	122.266	1.4967	6	1.98159	126.4155	2.72994	0.41808	2.3119	51.706	1.5309	-0.01	5	0.7959	0.5368	2.1956	60.64614
45.2	147.5	1.87	-9.86	-0.45	147.379	1.2688	6	1.87348	127.0293	2.7363	0.4212	2.3151	62.478	1.2928	-0.008	5	0.7495	0.5561	2.0732	76.01545
45.3	144.7	2.15	-9.85	-0.45	144.579	1.4871	6	1.92854	128.0034	2.7427	0.42432	2.3184	61.179	1.5158	-0.008	5	0.7715	0.546	2.1307	73.18733
45.4	128.9	2.47	-9.85	-0.45	128.779	1.918	5	2.0435	128.7364	2.74913	0.42744	2.3217	54.284	1.9599	-0.009	5	0.8193	0.5253	2.2556	62.56817
45.5	107.2	2.61	-9.85	-0.44	107.079	2.4374	5	2.17438	128.6897	2.75557	0.43056	2.325	44.87	2.5018	-0.011	5	0.8752	0.5021	2.4022	49.50185
45.6	81	2.59	-9.85	-0.45	80.8794	3.2023	5	2.3441	127.9491	2.76197	0.43368	2.3283	33.552	3.3155	-0.015	4	0.9498	0.4728	2.5968	34.90584
45.7	64.1	2.33	-9.81	-0.44	63.9799	3.6418	4	2.4544	126.6033	2.7683	0.4368	2.3315	26.254	3.8065	-0.019	4	0.9999	0.4539	2.729	26.25554
45.8	62	1.98	-9.67	-0.44	61.8816	3.1997	4	2.42406	125.331	2.77456	0.43992	2.3346	25.317	3.3499	-0.019	4	0.9909	0.4565	2.7024	25.5015
45.9	72.5	1.7	-9.63	-0.44	72.3821	2.3487	5	2.28114	124.5977	2.78079	0.44304	2.3378	29.773	2.4425	-0.016	4	0.9306	0.4782	2.5446	31.45608
46	87.5	1.67	-9.7	-0.44	87.3813	1.9112	5	2.1601	124.9267	2.78704	0.44616	2.3409	36.138	1.9741	-0.014	5	0.8777	0.4981	2.4068	39.82223
46.1	97.5	1.57	-9.78	-0.44	97.3803	1.6122	5	2.07503	124.7391	2.79327	0.44928	2.344	40.353	1.6599	-0.012	5	0.842	0.5119	2.3126	45.75517
46.2	105.5	1.41	-9.78	-0.44	105.38	1.338	6	1.99476	124.1452	2.79948	0.4524	2.3471	43.706	1.3745	-0.011	5	0.8091	0.5249	2.2258	50.88324
46.3	114.8	1.34	-9.81	-0.43	114.68	1.1685	6	1.92803	123.9789	2.80568	0.45552	2.3502	47.603	1.1978	-0.01	5	0.7813	0.5361	2.1523	56.67898
46.4	122.5	1.4	-9.85	-0.43	122.379	1.144	6	1.90092	124.4579	2.8119	0.45864	2.3533	50.809	1.1709	-0.01	5	0.7693	0.5407	2.1204	61.09759
46.5	129.2	1.5	-9.85	-0.42	129.079	1.1621	6	1.88849	125.0927	2.81816	0.46176	2.3564	53.582	1.188	-0.009	5	0.7633	0.5427	2.1042	64.76274
46.6	133.7	1.64	-9.85	-0.43	133.579	1.2277	6	1.89403	125.8292	2.82445	0.46488	2.3596	55.415	1.2543	-0.009	5	0.7648	0.5415	2.1077	66.92046
46.7	135.3	1.75	-9.85	-0.44	135.179	1.2946	6	1.90631	126.3333	2.83077	0.468	2.3628	56.014	1.3223	-0.009	5	0.7695	0.5389	2.1197	67.41098
46.8	134.3	1.82	-9.92	-0.44	134.179	1.3564	6	1.92282	126.6021	2.8371	0.47112	2.366	55.513	1.3857	-0.009	5	0.7764	0.5354	2.1373	66.45892
46.9	132.6	1.83	-9.93	-0.44	132.478	1.3814	6	1.93232	126.6111	2.84343	0.47424	2.3692	54.717	1.4117	-0.009	5	0.7807	0.533	2.1484	65.29685
47	133.3	1.86	-9.95	-0.43	133.178	1.3966	6	1.93407	126.7429	2.84976	0.47736	2.3724	54.935	1.4272	-0.009	5	0.7816	0.532	2.1502	65.53173
47.1	134.1	1.96	-10.01	-0.42	133.977	1.4629	6	1.94651	127.1407	2.85612	0.48048	2.3756	55.194	1.4948	-0.009	5	0.7865	0.5294	2.1628	65.59777
47.2	136.8	2.12	-10.04	-0.42	136.677	1.5511	6	1.95866	127.7635	2.86251	0.4836	2.3789	56.25	1.5843	-0.009	5	0.7909	0.5269	2.174	66.63399
47.3	142.5	2.34	-10.13	-0.4	142.376	1.6435	6	1.96469	128.5856	2.86894	0.48672	2.3822	58.562	1.6773	-0.009	5	0.7924	0.5257	2.1774	69.30999
47.4	154.6	2.26	-10.22	-0.41	154.475	1.463	6	1.9036	128.53	2.87537	0.48984	2.3855	63.55	1.4908	-0.008	5	0.7669	0.5361	2.1101	76.80928
47.5	158	1.94	-10.47	-0.42	157.872	1.2288	6	1.84255	127.4659	2.88174	0.49296	2.3888	64.883	1.2517	-0.008	5	0.7432	0.546	2.0473	79.97609
47.6	126.3	2.22	-10.79	-0.41	126.168	1.7596	5	2.02225	127.9056	2.88813	0.49608	2.3921	51.537	1.8008	-0.01	5	0.8191	0.5127	2.2463	59.73397
47.7	81.6	2.35	-10.98	-0.4	81.4656	2.8847	5	2.30876	127.2551	2.8945	0.4992	2.3953	32.802	2.9909	-0.016	4	0.9438	0.4625	2.5723	34.34473
47.8	54.2	2.06	-10.76	-0.42	54.0683	3.81	4	2.51923	125.2916	2.90076	0.50232	2.3984	21.334	4.026	-0.025	3	1	0.4412	2.8131	21.33366
47.9	40	1.81	-10.62	-0.43	39.87	4.5398	4	2.66647	123.602	2.90694	0.50544	2.4015	15.392	4.8968	-0.034	3	1	0.4406	2.9763	15.39165
48	26.9	1.57	-10.6	-0.43	26.7703	5.8647	3	2.86795	121.5896	2.91302	0.50856	2.4045	9.9221	6.5808	-0.053	3	1	0.4401	3.205	9.92207
48.1	24.3	1.24	-10.53	-0.42	24.1711	5.1301	3	2.86054	119.6139	2.919	0.51168	2.4073	8.8281	5.8347	-0.06	3	1	0.4395	3.2118	8.82811
48.2	25	1	-10.51	-0.44	24.8714	4.0207	3	2.78086	118.1096	2.92491	0.5148	2.4101	9.106	4.5566	-0.058	3	1	0.439	3.1357	9.10601
48.3	32.2	0.95	-10.42	-0.44	32.0725	2.962	4	2.6106	118.3545	2.93082	0.51792	2.4129	12.077	3.2599	-0.044	3	1	0.4385	2.9507	12.07741
48.4	38.7	0.97	-10.38	-0.44	38.573	2.5147	4	2.50348	118.9571	2.93677	0.52104	2.4157	14.752	2.722	-0.036	4	1	0.438	2.8344	14.7517
48.5	36.9	0.95	-10.38	-0.45	36.773	2.5834	4	2.52688	118.6881	2.94271	0.52416	2.4186	13.988	2.8081	-0.038	3	1	0.4375	2.8611	13.98784
48.6	29.6	0.9	-10.38	-0.45	29.473	3.0537	4	2.64716	117.7527	2.94859	0.52728	2.4213	10.955	3.3931	-0.048	3	1	0.437	2.9952	10.95453
48.7	22.2	0.91	-10.38	-0.45	22.073	4.1227	3	2.82724	117.1284	2.95445	0.5304	2.4241	7.887	4.7598	-0.067	3	1	0.4365	3.1971	7.887
48.8	20.3	0.77	-10.38	-0.46	20.173	3.817	3	2.83571	115.6865	2.96024	0.53352	2.4267	7.093	4.4734	-0.074	3	1	0.436	3.2186	7.09301
48.9	20.2	0.57	-10.36	-0.47	20.0732	2.8396	4	2.75759	113.4738	2.96591	0.53664	2.4293	7.0422	3.3319	-0.075	3	1	0.4356	3.1486	7.04215
49	19.7	0.48	-10.31	-0.48	19.5738	2.4523	4	2.72824	112.155	2.97152	0.53976	2.4318	6.8273	2.8912	-0.077	3	1	0.4351	3.1262	6.82728
49.1	18.4	0.46	-10.31	-0.49	18.2738	2.5173	4	2.75905	111.6759	2.9771	0.54288	2.4342	6.284	3.0072	-0.084	3	1	0.4347	3.1658	6.28403
49.2	17.6	0.43	-10.31	-0.52	17.4738	2.4608	4	2.76907	111.0733	2.98265	0.546	2.4367	5.9472	2.9673	-0.089	3	1	0.4343	3.1829	5.94715
49.3	17.7	0.43	-10.31	-0.53	17.5738	2.4468	4	2.76561	111.0872	2.98821	0.54912	2.4391	5.9799	2.9481	-0.089	3	1	0.4338	3.1794	5.97994
49.4	19.5	0.44	-10.23	-0.55	19.3748	2.271	4	2.71231	111.4934	2.99378	0.55224	2.4415	6.7093	2.686	-0.079	3	1	0.4334	3.1156	6.70928

49.5	21.3	0.47	-10.23	-0.57	21.1748	2.2196	4	2.67517	112.1927	2.99939	0.55536	2.444	7.4366	2.5859	-0.071	3	1	0.4329	3.0689	7.43664
49.6	20.8	0.53	-10.23	-0.62	20.6748	2.5635	4	2.72058	113.0135	3.00504	0.55848	2.4466	7.2223	2.9995	-0.073	3	1	0.4325	3.1143	7.22227
49.7	20.7	0.56	-10.23	-0.64	20.5748	2.7218	4	2.73791	113.4045	3.01071	0.5616	2.4491	7.1716	3.1883	-0.074	3	1	0.432	3.1314	7.1716
49.8	21.9	0.56	-10.23	-0.67	21.7748	2.5718	4	2.70342	113.5428	3.01639	0.56472	2.4517	7.6513	2.9853	-0.069	3	1	0.4316	3.0922	7.65127
49.9	22	0	-10.23	-0.69	21.8748	0	0	0	120.9	3.02244	0.56784	2.4546	7.6804	0	-0.069	0	1	0.4311	0	0
50	21.5	0	-10.17	-0.7	21.3755	0	0	0	120.9	3.02848	0.57096	2.4575	7.4657	0	-0.071	0	1	0.4306	0	0

	CPT-12	In situ data						Basic output data												
Depth (ft)	qc (tsf)	fs (tsf)	u (psi)	Other	qt (tsf)	Rf(%)	SBT	Ic SBT	ã (pcf)	ó,v (tsf)	u0 (tsf)	ó',vo (tsf)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.1	4.2	0	0	0.24	4.2	0	0	0	120.9	0.00605	0	0.0061	693.79	0	0	0	1	175.04	0	0
0.2	14.6	0	-0.02	-0.32	14.5998	0	0	0	120.9	0.01209	0	0.0121	1206.6	0	-1E-04	0	1	87.519	0	0
0.3	48.1	0.26	-0.07	-1.08	48.0991	0.5406	6	2.0476	109.8617	0.01758	0	0.0176	2734.5	0.5408	-1E-04	6	0.4055	5.266	1.4487	239.2917
0.4	103.8	0.38	-0.09	-0.08	103.799	0.3661	6	1.67317	114.5145	0.02331	0	0.0233	4452.2	0.3662	-6E-05	7	0.3176	3.36	1.2332	329.5376
0.5	152.7	0.52	-0.1	0.32	152.699	0.3405	6	1.51118	117.751	0.0292	0	0.0292	5229.1	0.3406	-5E-05	7	0.2899	2.8317	1.1416	408.5749
0.6	139.1	0.76	-0.02	-0.07	139.1	0.5464	6	1.65606	120.3002	0.03521	0	0.0352	3949.4	0.5465	-1E-05	7	0.337	3.1482	1.2826	413.7543
0.7	117.1	0.97	-0.07	-1.37	117.099	0.8284	6	1.82454	121.6655	0.04129	0	0.0413	2834.7	0.8287	-4E-05	6	0.3958	3.6102	1.4319	399.3964
0.8	127.6	1.04	-0.09	-1.33	127.599	0.8151	6	1.7911	122.3848	0.04741	0	0.0474	2690.2	0.8154	-5E-05	6	0.3923	3.3807	1.421	407.5343
0.9	154.1	1.26	-0.14	-1.05	154.098	0.8177	6	1.72924	124.2491	0.05363	0	0.0536	2872.6	0.8179	-7E-05	6	0.3825	3.1291	1.3934	455.5488
1	188.3	1.35	-0.12	-0.74	188.299	0.717	6	1.62613	125.2428	0.05989	0	0.0599	3143.2	0.7172	-5E-05	7	0.3598	2.8099	1.3235	499.8828
1.1	214.6	1.52	-0.07	-0.91	214.599	0.7083	6	1.58041	126.4295	0.06621	0	0.0662	3240.2	0.7085	-2E-05	7	0.3511	2.6457	1.3015	536.4276
1.2	226.9	1.58	-0.07	-1.08	226.899	0.6963	6	1.55764	126.8487	0.07255	0	0.0726	3126.4	0.6966	-2E-05	7	0.3475	2.5377	1.292	544.0138
1.3	229.3	1.82	-0.03	-1.23	229.3	0.7937	6	1.59371	127.9091	0.07895	0	0.079	2903.4	0.794	-1E-05	6	0.3633	2.5674	1.3339	556.1731
1.4	234.1	1.91	-0.05	-1.23	234.099	0.8159	6	1.59578	128.3128	0.08536	0	0.0854	2741.4	0.8162	-2E-05	6	0.3671	2.5195	1.3435	557.2176
1.5	238.1	2.08	-0.11	-1.2	238.099	0.8736	6	1.61185	128.978	0.09181	0	0.0918	2592.3	0.8739	-3E-05	6	0.3757	2.5055	1.366	563.5771
1.6	238.5	2.26	-0.03	-1.22	238.5	0.9476	6	1.63697	129.5894	0.09829	0	0.0983	2425.4	0.948	-1E-05	6	0.3871	2.509	1.3955	565.2935
1.7	245.7	2.42	0.01	-1.25	245.7	0.9849	6	1.64057	130.1624	0.1048	0	0.1048	2343.5	0.9854	0	6	0.3915	2.4726	1.4066	573.9016
1.8	256.4	2.49	0.01	-1.27	256.4	0.9711	6	1.6236	130.475	0.11132	0	0.1113	2302.2	0.9716	0	6	0.3887	2.3995	1.3986	581.1881
1.9	262.5	2.67	0.01	-1.28	262.5	1.0171	6	1.63186	131.0431	0.11788	0	0.1179	2225.9	1.0176	0	6	0.3944	2.3763	1.413	589.2615
2	261.9	2.79	0.01	-1.28	261.9	1.0653	6	1.64767	131.3592	0.12444	0	0.1244	2103.6	1.0658	0	6	0.4019	2.3638	1.4321	584.8136
2.1	256.3	2.86	0.01	-1.28	256.3	1.1159	6	1.66906	131.4877	0.13102	0	0.131	1955.2	1.1165	0	6	0.4108	2.3589	1.4547	571.084
2.2	246.4	2.81	0.01	-1.29	246.4	1.1404	6	1.68738	131.2626	0.13758	0	0.1376	1789.9	1.1411	0	6	0.418	2.3458	1.4726	545.9566
2.3	238.5	2.69	-0.05	-1.28	238.499	1.1279	6	1.69306	130.8638	0.14412	0	0.1441	1653.8	1.1286	-2E-05	6	0.4206	2.3128	1.4787	521.0021
2.4	227.8	2.57	-0.13	-1.28	227.798	1.1282	6	1.70636	130.4179	0.15065	0	0.1507	1511.1	1.1289	-4E-05	6	0.4256	2.2926	1.4911	493.2366
2.5	219.5	2.73	0.08	-1.3	219.501	1.2437	6	1.74875	130.7693	0.15718	0	0.1572	1395.5	1.2446	3E-05	6	0.4418	2.3219	1.5328	481.3301
2.6	222.5	3.02	0.46	-1.32	222.506	1.3573	6	1.77363	131.5412	0.16376	0	0.1638	1357.7	1.3583	0.0002	6	0.4531	2.3289	1.5619	489.3789
2.7	227.4	3.59	0.35	-1.3	227.404	1.5787	6	1.81824	132.8594	0.1704	0	0.1704	1333.5	1.5799	0.0001	6	0.4707	2.3621	1.6116	507.2667
2.8	230.3	4.08	0.29	-1.33	230.304	1.7716	6	1.85419	133.8264	0.1771	0	0.1771	1299.5	1.7729	9E-05	6	0.4864	2.3857	1.6514	518.862
2.9	229.2	4.47	0.42	-1.34	229.205	1.9502	6	1.88865	134.4828	0.18382	0	0.1838	1245.9	1.9518	0.0001	8	0.5009	2.403	1.6881	520.1146
3	232.4	4.78	0.42	-1.35	232.405	2.0568	6	1.90359	135.0072	0.19057	0	0.1906	1218.5	2.0584	0.0001	8	0.5086	2.3912	1.7071	524.7794
3.1	238.6	4.85	0.43	-1.36	238.605	2.0327	6	1.8927	135.1778	0.19733	0	0.1973	1208.2	2.0343	0.0001	8	0.5068	2.3421	1.7015	527.7198
3.2	241.9	4.91	0.34	-1.37	241.904	2.0297	6	1.88869	135.3012	0.20409	0	0.2041	1184.3	2.0314	0.0001	8	0.5071	2.3038	1.7014	526.2506
3.3	228.2	4.83	0.37	-1.41	228.205	2.1165	6	1.91831	135.0389	0.21085	0	0.2109	1081.3	2.1185	0.0001	8	0.5179	2.3058	1.7289	496.8402
3.4	209.8	4.45	0.38	-1.44	209.805	2.121	6	1.94089	134.2342	0.21756	0	0.2176	963.36	2.1232	0.0001	8	0.5252	2.2951	1.7473	454.5992
3.5	195.9	4.03	0.54	-1.44	195.907	2.0571	6	1.94855	133.3417	0.22422	0	0.2242	872.71	2.0595	0.0002	8	0.5274	2.2666	1.7524	419.1779
3.6	189.9	3.84	0.6	-1.46	189.907	2.022	6	1.95107	132.9125	0.23087	0	0.2309	821.57	2.0245	0.0002	8	0.5288	2.2368	1.7553	400.9697
3.7	205.5	3.77	0.45	-1.48	205.506	1.8345	6	1.89664	132.9704	0.23752	0	0.2375	864.22	1.8366	0.0002	6	0.512	2.1487	1.7102	416.8329
3.8	218.3	3.82	0.4	-1.5	218.305	1.7499	6	1.86426	133.2141	0.24418	0	0.2442	893.04	1.7518	0.0001	6	0.5028	2.0903	1.6853	430.775
3.9	221.7	3.95	0.49	-1.5	221.706	1.7816	6	1.86626	133.4967	0.25085	0	0.2509	882.8	1.7837	0.0002	6	0.5053	2.0696	1.6909	433.1558
4	220.2	3.87	0.58	-1.5	220.207	1.7574	6	1.86341	133.3305	0.25752	0	0.2575	854.1	1.7595	0.0002	6	0.5054	2.0424	1.6901	424.554
4.1	215.7	3.77	0.66	-1.5	215.708	1.7477	6	1.86708	133.0886	0.26418	0	0.2642	815.53	1.7499	0.0002	6	0.5074	2.0221	1.6947	411.7203
4.2	210	3.62	0.68	-1.5	210.008	1.7237	6	1.86965	132.7262	0.27081	0	0.2708	774.48	1.726	0.0002	6	0.5089	2.0009	1.6979	396.6119
4.3	203.8	3.45	0.61	-1.5	203.807	1.6928	6	1.87174	132.3011	0.27743	0	0.2774	733.64	1.6951	0.0002	6	0.5102	1.9797	1.7003	380.8064
4.4	193.6	3.19	0.68	-1.5	193.608	1.6477	6	1.87694	131.6026	0.28401	0	0.284	680.7	1.6501	0.0003	6	0.512	1.961	1.7044	358.2857
4.5	188.6	3	0.68	-1.49	188.608	1.5906	6	1.87262	131.0894	0.29056	0	0.2906	648.12	1.5931	0.0003	6	0.511	1.9355	1.7009	344.4804
4.6	182.5	2.76	0.68	-1.48	182.508	1.5123	6	1.86544	130.3992	0.29708	0	0.2971	613.34	1.5147	0.0003	6	0.5087	1.9081	1.6941	328.5845
4.7	177.1	2.66	0.65	-1.48	177.108	1.5019	6	1.87186	130.0559	0.30358	0	0.3036	582.39	1.5045	0.0003	6	0.5116	1.8941	1.7009	316.4892
4.8	170.6	2.68	0.61	-1.46	170.607	1.5709	6	1.89722	130.0195	0.31008	0	0.3101	549.2	1.5737	0.0003	6	0.5215	1.8965	1.7259	305.2369
4.9	159.9	2.64	0.66	-1.46	159.908	1.651	6	1.93207	129.7515	0.31657	0	0.3166	504.12	1.6542	0.0003	6	0.5343	1.9054	1.7586	287.3882
5	148.7	2.61	0.62	-1.46	148.708	1.7551	6	1.97292	129.4907	0.32305	0	0.3231	459.33	1.7589	0.0003	6	0.5492	1.9186	1.7969	269.0577
5.1	144.7	2.27	0.61	-1.48	144.707	1.5687	6	1.9451	128.403	0.32947	0	0.3295	438.22	1.5723	0.0003	6	0.5393	1.8762	1.7703	256.003
5.2	142.8	2.11	0.53	-1.46	142.806	1.4775	6	1.93024	127.8359	0.33586	0	0.3359	424.2	1.481	0.0003	6	0.5346	1.8469	1.7572	248.6782
5.3	139.2	1.9	0.53	-1.46	139.206	1.3649	6	1.91341	127.0066	0.34221	0	0.3422	405.79	1.3682	0.0003	6	0.5289	1.8168	1.7416	238.4271
5.4	134.3	1.65	0.47	-1.46	134.306	1.2285	6	1.89252	125.8869	0.3485	0	0.3485	384.38	1.2317	0.0003	6	0.5215	1.7845	1.7214	225.9147
5.5	130.2	1.5	0.34	-1.44	130.204	1.152	6	1.88316	125.1139	0.35476	0	0.3548	366.02	1.1552	0.0002	6	0.5185	1.7622	1.7128	216.2534
5.6	126	1.48	0.31	-1.44	126.004	1.1746	6	1.89932	124.9357	0.36101	0	0.361	348.04	1.1779	0.0002	6	0.525	1.7587	1.7292	208.8362
5.7	119.6	1.47	0.31	-1.44	119.604	1.2291	6	1.92932	124.7589	0.36724	0	0.3672	324.68	1.2328	0.0002	6	0.5364	1.7641	1.7582	198.797
5.8	109.7	1.39	0.31	-1.44	109.704	1.2671	6	1.96591	124.1388	0.37345	0	0.3735	292.76	1.2714	0.0002	6	0.5496	1.7725	1.7919	183.1487
5.9	100.1	1.25	0.29	-1.46	100.104	1.2487	6	1.99132	123.1386	0.37961	0	0.3796	262.7	1.2535	0.0002	6	0.5585	1.7728	1.8146	167.0809
6	93.5	1.15	0.23	-1.46	93.5028	1.2299	6	2.00934	122.3621	0.38573	0	0.3857	241.41	1.235	0.0002	6	0.5652	1.7688	1.8312	155.6639
6.1	85.1	1.09	0.2	-1.46	85.1025	1.2808	5	2.05187	121.7405	0.39181	0	0.3918	216.2	1.2867	0.0002	6	0.5806	1.7803	1.8707	142.5264
6.2	74.7	1.09	0.2	-1.44	74.7025	1.4591	5	2.13166	121.4226	0.39788	0	0.3979	186.75	1.4669	0.0002	6	0.6094	1.8149	1.9454	127.4471
6.3	64.9	1.1	0.16	-1.44	64.902	1.6949	5	2.22037	121.1464	0.40394	0	0.4039	159.67	1.7055	0.0002	5	0.6414	1.8546	2.0285	113.0497
6.4	60.5	1.07	0.16	-1.44	60.502	1.7685	5	2.25554	120.7728	0.40998	0	0.41	146.57	1.7806	0.0002	5	0.6547	1.8603	2.0625	105.6488
6.5	58	1	0.08	-1.45	58.001	1.7241	5	2.26236	120.1748	0.41599	0	0.416	138.43	1.7366	0.0001	5	0.6578	1.848	2.0699	100.5722
6.6	52.6	0.89	0.08	-1.44	52.601	1.692	5	2.28982	119.0838	0.42194	0	0.4219	123.66	1.7057	0.0001	5	0.6677	1.8475	2.0951	91.10881
6.7	50.2	0.85	0.04	-1.46	50.2005	1.6932	5	2.30577	118.6334	0.42787	0	0.4279	116.33	1.7078	6E-05	5	0.6742	1.8412	2.1114	86.60924
6.8	49.3	0.87	0.01	-1.46	49.3001	1.7647	5	2.32318	118.7594	0.43381	0	0.4338	112.64	1.7804	1E-05	5	0.6818	1.8365	2.1304	84.81633

6.9	48.5	0.88	0.01	-1.46	48.5001	1.8144	5	2.33632	118.8031	0.43975	0	0.4398	109.29	1.831	1E-05	5	0.6878	1.8292	2.1453	83.08313
7	47.8	0.88	0	-1.46	47.8	1.841	5	2.3452	118.7677	0.44569	0	0.4457	106.25	1.8583	0	5	0.6922	1.8193	2.1561	81.42087
7.1	50.3	0.86	-0.07	-1.46	50.2991	1.7098	5	2.30776	118.7238	0.45163	0	0.4516	110.37	1.7253	-1E-04	5	0.6802	1.7844	2.1238	84.0619
7.2	53.5	0.83	-0.07	-1.46	53.4991	1.5514	5	2.26043	118.6144	0.45756	0	0.4576	115.92	1.5648	-1E-04	5	0.6645	1.7456	2.0822	87.50544
7.3	58.1	0.79	-0.07	-1.46	58.0991	1.3597	5	2.19681	118.4542	0.46348	0	0.4635	124.35	1.3707	-9E-05	6	0.6431	1.7004	2.0251	92.61965
7.4	65.5	0.78	-0.07	-1.46	65.4991	1.1909	5	2.12036	118.6533	0.46941	0	0.4694	138.53	1.1995	-8E-05	6	0.6173	1.6516	1.9569	101.5033
7.5	73	0.82	-0.07	-1.46	72.9991	1.1233	5	2.06761	119.2837	0.47538	0	0.4754	152.56	1.1307	-7E-05	6	0.6003	1.6166	1.9114	110.8006
7.6	81.7	0.9	-0.14	-1.46	81.6983	1.1016	6	2.02397	120.2394	0.48139	0	0.4814	168.71	1.1081	-1E-04	6	0.5867	1.5873	1.8749	121.8385
7.7	93.3	1.01	-0.16	-1.44	93.298	1.0826	6	1.97439	121.407	0.48746	0	0.4875	190.4	1.0882	-1E-04	6	0.5711	1.5568	1.8332	136.5538
7.8	105.2	1.18	-0.22	-1.45	105.197	1.1217	6	1.94446	122.838	0.4936	0	0.4936	212.12	1.127	-2E-04	6	0.5627	1.5359	1.8103	151.9778
7.9	114.1	1.38	-0.22	-1.44	114.097	1.2095	6	1.93971	124.1817	0.49981	0	0.4998	227.28	1.2148	-1E-04	6	0.5632	1.5256	1.8107	163.789
8	123.3	1.62	-0.27	-1.42	123.297	1.3139	6	1.93953	125.5441	0.50609	0	0.5061	242.63	1.3193	-2E-04	6	0.5653	1.5173	1.8153	176.0775
8.1	136.1	1.89	-0.36	-1.42	136.096	1.3887	6	1.92567	126.9129	0.51243	0	0.5124	264.59	1.394	-2E-04	6	0.5625	1.5036	1.8072	192.6684
8.2	154.7	1.93	-0.5	-1.42	154.694	1.2476	6	1.85344	127.3785	0.5188	0	0.5188	297.17	1.2518	-2E-04	6	0.5381	1.4674	1.7423	213.8152
8.3	178.6	2.05	-0.37	-1.42	178.595	1.1479	6	1.7839	128.1703	0.52521	0	0.5252	339.05	1.1512	-2E-04	6	0.5148	1.4342	1.6804	241.363
8.4	207.9	2.22	-0.65	-1.41	207.892	1.0679	6	1.71563	129.1237	0.53167	0	0.5317	390.02	1.0706	-2E-04	6	0.4921	1.4031	1.6199	274.9651
8.5	234.4	2.37	-1.36	-1.38	234.383	1.0112	6	1.66281	129.8946	0.53816	0	0.5382	434.53	1.0135	-4E-04	6	0.4747	1.3784	1.5733	304.6287
8.6	254	2.49	-1.22	-1.35	253.985	0.9804	6	1.62941	130.4519	0.54468	0	0.5447	465.3	0.9825	-4E-04	6	0.464	1.3609	1.5444	325.9534
8.7	248.8	2.73	-0.97	-1.34	248.788	1.0973	6	1.672	131.0748	0.55124	0	0.5512	450.33	1.0998	-3E-04	6	0.4806	1.3681	1.5872	320.9576
8.8	239.7	3.02	-0.9	-1.32	239.689	1.26	6	1.72809	131.7226	0.55782	0	0.5578	428.69	1.2629	-3E-04	6	0.5022	1.3792	1.6429	311.6939
8.9	240.3	3.37	-0.97	-1.32	240.288	1.4025	6	1.76322	132.5311	0.56445	0	0.5645	424.7	1.4058	-3E-04	6	0.5163	1.3833	1.6792	313.3948
9	220.3	3.71	-0.98	-1.32	220.288	1.6842	6	1.8488	133.0224	0.5711	0	0.5711	384.72	1.6885	-3E-04	6	0.5485	1.4025	1.7626	291.2192
9.1	206.9	3.83	-1.05	-1.32	206.887	1.8513	6	1.89792	133.1023	0.57776	0	0.5778	357.09	1.8564	-4E-04	6	0.5671	1.4094	1.8108	274.8055
9.2	191.5	3.7	-0.92	-1.33	191.489	1.9322	6	1.93342	132.6609	0.58439	0	0.5844	326.67	1.9381	-4E-04	6	0.5805	1.4115	1.8451	254.6593
9.3	178.7	3.37	-0.77	-1.34	178.691	1.8859	6	1.94428	131.8087	0.59098	0	0.591	301.36	1.8922	-3E-04	6	0.5847	1.4057	1.8553	236.6129
9.4	173.4	3.03	-0.92	-1.35	173.389	1.7475	6	1.92743	130.957	0.59753	0	0.5975	289.18	1.7536	-4E-04	6	0.5789	1.3921	1.8392	227.3286
9.5	167.4	2.67	-0.78	-1.36	167.39	1.5951	6	1.90768	129.9457	0.60403	0	0.604	276.12	1.6009	-3E-04	6	0.5719	1.378	1.8201	217.2086
9.6	172.8	2.58	-0.74	-1.36	172.791	1.4931	6	1.87712	129.7722	0.61051	0	0.6105	282.03	1.4984	-3E-04	6	0.5616	1.3619	1.7922	221.6076
9.7	183.1	2.68	-0.67	-1.36	183.092	1.4638	6	1.85391	130.1917	0.61702	0	0.617	295.73	1.4687	-3E-04	6	0.5544	1.3485	1.7724	232.55
9.8	195.7	2.84	-0.7	-1.38	195.691	1.4513	6	1.83203	130.7783	0.62356	0	0.6236	312.83	1.4559	-3E-04	6	0.5477	1.3359	1.754	246.2772
9.9	199.1	2.95	-0.78	-1.38	199.09	1.4817	6	1.83396	131.0984	0.63012	0	0.6301	314.96	1.4864	-3E-04	6	0.5494	1.3295	1.7578	249.358
10	194.5	2.96	-0.82	-1.38	194.49	1.5219	6	1.84939	131.0661	0.63667	0	0.6367	304.48	1.5269	-3E-04	6	0.5559	1.3263	1.7739	242.9839
10.1	187.4	2.89	-0.77	-1.36	187.391	1.5422	6	1.86431	130.8003	0.64321	0	0.6432	290.34	1.5476	-3E-04	6	0.562	1.3228	1.7891	233.4615
10.2	184.1	2.77	-0.67	-1.36	184.092	1.5047	6	1.86132	130.4467	0.64973	0	0.6497	282.33	1.51	-3E-04	6	0.5616	1.315	1.7872	227.9829
10.3	186.9	2.65	-0.68	-1.34	186.892	1.4179	6	1.83767	130.1595	0.65624	0	0.6562	283.79	1.4229	-3E-04	6	0.5536	1.3027	1.7655	229.29
10.4	192.6	2.7	-0.75	-1.33	192.591	1.4019	6	1.82532	130.3695	0.66276	0	0.6628	289.59	1.4068	-3E-04	6	0.5501	1.2935	1.7554	234.6198
10.5	195.7	2.8	-0.72	-1.32	195.691	1.4308	6	1.82739	130.6745	0.66929	0	0.6693	291.38	1.4357	-3E-04	6	0.5518	1.2876	1.7592	237.311
10.6	195.9	2.95	-0.67	-1.32	195.892	1.5059	6	1.84388	131.0589	0.67585	0	0.6759	288.85	1.5112	-3E-04	6	0.5589	1.2847	1.777	237.0254
10.7	189.3	3.1	-0.67	-1.3	189.292	1.6377	6	1.88124	131.3382	0.68241	0	0.6824	276.39	1.6436	-3E-04	6	0.5736	1.2861	1.8147	229.2411
10.8	181	3.23	-0.67	-1.3	180.992	1.7846	6	1.92231	131.5294	0.68899	0	0.689	261.69	1.7914	-3E-04	6	0.5896	1.2878	1.8559	219.4453
10.9	172.5	3.29	-0.67	-1.3	172.492	1.9073	6	1.95787	131.5468	0.69557	0	0.6956	246.99	1.9151	-3E-04	6	0.6035	1.2881	1.8916	209.1417
11	164.4	3.35	-0.67	-1.29	164.392	2.0378	5	1.99331	131.5617	0.70215	0	0.7022	233.13	2.0466	-3E-04	6	0.6174	1.2882	1.9272	199.2767
11.1	157.2	3.36	-0.67	-1.28	157.192	2.1375	5	2.0217	131.4743	0.70872	0	0.7087	220.8	2.1472	-3E-04	6	0.6287	1.2866	1.956	190.2681
11.2	149.5	3	-0.67	-1.28	149.492	2.0068	5	2.01499	130.5226	0.71525	0	0.7153	208.01	2.0165	-3E-04	6	0.6266	1.2781	1.9498	179.7131
11.3	141	2.92	-0.62	-1.28	140.992	2.071	5	2.04201	130.182	0.72175	0	0.7218	194.35	2.0817	-3E-04	6	0.6373	1.2761	1.977	169.169
11.4	131.1	2.87	-0.6	-1.26	131.093	2.1893	5	2.081	129.8781	0.72825	0	0.7283	179.01	2.2015	-3E-04	5	0.6525	1.276	2.0159	157.2137
11.5	121.9	2.74	-0.6	-1.26	121.893	2.2479	5	2.11057	129.3614	0.73472	0	0.7347	164.9	2.2615	-4E-04	5	0.6641	1.2741	2.0456	145.8866
11.6	111.4	2.55	-0.6	-1.25	111.393	2.2892	5	2.1427	128.6159	0.74115	0	0.7412	149.3	2.3045	-4E-04	5	0.6766	1.2724	2.0775	133.0573
11.7	106.1	2.37	-0.6	-1.24	106.093	2.2339	5	2.14929	127.9614	0.74755	0	0.7476	140.92	2.2498	-4E-04	5	0.6797	1.2664	2.0849	126.0777
11.8	100.3	2.21	-0.6	-1.24	100.293	2.2036	5	2.16175	127.3128	0.75391	0	0.7539	132.03	2.2202	-4E-04	5	0.685	1.2613	2.098	118.6569
11.9	93.3	2.01	-0.66	-1.24	93.2919	2.1545	5	2.1766	126.4423	0.76023	0	0.7602	121.71	2.1722	-5E-04	5	0.6911	1.2567	2.1133	109.8974
12	84.6	1.82	-0.6	-1.24	84.5927	2.1515	5	2.20615	125.4769	0.76651	0	0.7665	109.36	2.1712	-5E-04	5	0.7027	1.2543	2.143	99.36517
12.1	77.6	1.6	-0.6	-1.23	77.5927	2.0621	5	2.22017	124.3236	0.77272	0	0.7727	99.415	2.0828	-6E-04	5	0.7085	1.2494	2.1575	90.71042
12.2	71.1	1.42	-0.66	-1.24	71.0919	1.9974	5	2.23837	123.2369	0.77888	0	0.7789	90.274	2.0195	-7E-04	5	0.7159	1.2453	2.1762	82.74926
12.3	65.9	1.29	-0.6	-1.24	65.8927	1.9577	5	2.25684	122.3492	0.785	0	0.785	82.939	1.9813	-7E-04	5	0.7236	1.2411	2.1955	76.36889
12.4	61.6	1.18	-0.6	-1.22	61.5927	1.9158	5	2.27246	121.5324	0.79108	0	0.7911	76.859	1.9407	-7E-04	5	0.7305	1.2367	2.212	71.06485
12.5	56.8	1.06	-0.6	-1.22	56.7927	1.8664	5	2.29163	120.5498	0.79711	0	0.7971	70.249	1.893	-8E-04	5	0.7384	1.2326	2.2321	65.23185
12.6	52.6	0.96	-0.64	-1.23	52.5922	1.8254	5	2.31086	119.6374	0.80309	0	0.8031	64.487	1.8537	-9E-04	5	0.7464	1.2286	2.2524	60.13192
12.7	48.2	0.85	-0.62	-1.23	48.1924	1.7638	5	2.3307	118.5338	0.80902	0	0.809	58.569	1.7939	-9E-04	5	0.7547	1.2245	2.2734	54.83662
12.8	43.1	0.74	-0.66	-1.22	43.0919	1.7173	5	2.36149	117.2469	0.81488	0	0.8149	51.881	1.7504	-0.001	5	0.7671	1.2218	2.3053	48.81909
12.9	37.9	0.66	-0.67	-1.22	37.8918	1.7418	5	2.40946	116.0961	0.82068	0	0.8207	45.171	1.7804	-0.001	5	0.7861	1.2211	2.3544	42.78104
13	34	0.59	-0.67	-1.22	33.9918	1.7357	5	2.44623	115.0109	0.82643	0	0.8264	40.131	1.779	-0.001	5	0.8009	1.2189	2.3928	38.20428
13.1	30.8	0.53	-0.71	-1.22	30.7913	1.7213	5	2.4787	113.985	0.83213	0	0.8321	36.003	1.7691	-0.002	5	0.8143	1.2161	2.4271	34.43156
13.2	29.4	0.48	-0.75	-1.22	29.3908	1.6332	5	2.48184	113.1464	0.83779	0	0.8378	34.081	1.6811	-0.002	5	0.8165	1.21	2.4323	32.65191
13.3	29.3	0.44	-0.75	-1.22	29.2908	1.5022	5	2.46227	112.5014	0.84341	0	0.8434	33.729	1.5467	-0.002	5	0.81	1.2017	2.4147	32.3067
13.4	30.1	0.41	-0.75	-1.22	30.0908	1.3625	5	2.42877	112.0504	0.84902	0	0.849	34.442	1.4021	-0.002	5	0.7983	1.1921	2.3831	32.94574
13.5	30.6	0.39	-0.75	-1.24	30.5908	1.2749	5	2.40681	111.7247	0.8546	0	0.8546	34.795	1.3115	-0.002	5	0.7909	1.184	2.363	33.2753
13.6	30.2	0.39	-0.82	-1.24	30.19	1.2918	5	2.41474	111.6925	0.86019	0	0.8602	34.097	1.3297	-0.002	5	0.7949	1.1789	2.3729	32.67894
13.7	29.7	0.39	-0.76	-1.23	29.6907	1.3135	5	2.42478	111.6519	0.86577	0	0.8658	33.294	1.353	-0.002	5	0.7997	1.174	2.3849	31.98259
13.8	29.2	0.4	-0.75	-1.24	29.1908	1.3703	5	2.44109	111.7957	0.87136	0	0.8714	32.5	1.4125	-0.002	5	0.8069	1.1696	2.4031	31.30426
13.9	28.9	0.42	-0.8	-1.23	28.8902	1.4538	5	2.45918	112.1274	0.87697	0	0.877	31.943	1.4993	-0.002	5	0.8148	1.1653	2.4232	30.85156

14	28.6	0.42	-0.82	-1.22	28.59	1.4691	5	2.46548	112.102	0.88257	0	0.8826	31.394	1.5158	-0.002	5	0.8182	1.16	2.4314	30.37548
14.1	28.5	0.41	-0.82	-1.23	28.49	1.4391	5	2.46172	111.9171	0.88817	0	0.8882	31.077	1.4854	-0.002	5	0.8178	1.1539	2.4296	30.1013
14.2	28.7	0.33	-0.86	-1.23	28.6895	1.1503	5	2.40604	110.3459	0.89368	0	0.8937	31.102	1.1872	-0.002	5	0.7975	1.1442	2.3757	30.05675
14.3	29.2	0.38	-0.9	-1.23	29.189	1.3019	5	2.42882	111.4202	0.89926	0	0.8993	31.459	1.3432	-0.002	5	0.8071	1.1403	2.4003	30.48717
14.4	29.4	0.44	-0.9	-1.23	29.389	1.4972	5	2.46025	112.5096	0.90488	0	0.9049	31.478	1.5447	-0.002	5	0.82	1.1369	2.4335	30.60431
14.5	29.1	0.51	-1.04	-1.21	29.0873	1.7533	5	2.50343	113.5647	0.91056	0	0.9106	30.944	1.81	-0.003	5	0.8375	1.134	2.4787	30.19818
14.6	27.8	0.61	-1.12	-1.2	27.7863	2.1953	4	2.57753	114.7631	0.9163	0	0.9163	29.325	2.2702	-0.003	4	0.8668	1.1329	2.5551	28.76795
14.7	26	0.72	-1.12	-1.2	25.9863	2.7707	4	2.66265	115.8129	0.92209	0	0.9221	27.182	2.8726	-0.003	4	0.9006	1.1319	2.6429	26.81259
14.8	23.1	0.73	-1.12	-1.2	23.0863	3.1621	4	2.73865	115.6252	0.92787	0	0.9279	23.881	3.2945	-0.004	4	0.9312	1.1301	2.7226	23.66607
14.9	21.1	0.72	-1.08	-1.2	21.0868	3.4145	4	2.79021	115.3033	0.93363	0	0.9336	21.586	3.5726	-0.004	4	0.9525	1.1266	2.7778	21.4577
15	21	0.69	-1.01	-1.19	20.9876	3.2877	4	2.78151	114.9804	0.93938	0	0.9394	21.342	3.4417	-0.004	4	0.9503	1.1197	2.7713	21.21598
15.1	24.4	0.65	-0.97	-1.18	24.3881	2.6652	4	2.67383	114.9097	0.94513	0	0.9451	24.804	2.7727	-0.003	4	0.9093	1.1081	2.663	24.55119
15.2	30.1	0.61	-1.02	-1.19	30.0875	2.0274	4	2.52911	114.9572	0.95088	0	0.9509	30.642	2.0936	-0.003	4	0.854	1.0956	2.5172	30.16758
15.3	33.8	0.59	-1.12	-1.2	33.7863	1.7463	5	2.44992	114.9961	0.95663	0	0.9566	34.318	1.7972	-0.002	5	0.8243	1.0867	2.4385	33.71561
15.4	33.9	0.59	-1.13	-1.2	33.8862	1.7411	5	2.44812	115.0033	0.96238	0	0.9624	34.211	1.792	-0.002	5	0.8246	1.0813	2.4385	33.64647
15.5	32.2	0.58	-1.19	-1.2	32.1854	1.8021	5	2.47498	114.7526	0.96811	0	0.9681	32.245	1.8579	-0.003	5	0.836	1.0771	2.4677	31.77876
15.6	30.9	0.56	-1.12	-1.18	30.8863	1.8131	5	2.49095	114.3954	0.97383	0	0.9738	30.716	1.8721	-0.003	5	0.8432	1.0725	2.486	30.31905
15.7	29.7	0.54	-1.19	-1.18	29.6854	1.8191	5	2.50567	114.0325	0.97954	0	0.9795	29.306	1.8812	-0.003	4	0.85	1.0678	2.5031	28.96837
15.8	28.6	0.53	-1.21	-1.18	28.5852	1.8541	4	2.5238	113.8036	0.98523	0	0.9852	28.014	1.9203	-0.003	4	0.8581	1.0632	2.5237	27.73155
15.9	27.2	0.53	-1.29	-1.18	27.1842	1.9497	4	2.5543	113.6811	0.99091	0	0.9909	26.434	2.0234	-0.004	4	0.871	1.0588	2.5569	26.21079
16	25.9	0.53	-1.35	-1.18	25.8835	2.0476	4	2.58407	113.5615	0.99659	0	0.9966	24.972	2.1296	-0.004	4	0.8837	1.0544	2.5895	24.79869
16.1	24.7	0.53	-1.35	-1.18	24.6835	2.1472	4	2.6129	113.4457	1.00226	0	1.0023	23.628	2.2381	-0.004	4	0.896	1.0498	2.6212	23.49496
16.2	24.6	0.53	-1.35	-1.16	24.5835	2.1559	4	2.61536	113.4358	1.00793	0	1.0079	23.39	2.2481	-0.004	4	0.898	1.0446	2.6256	23.27437
16.3	25.7	0.54	-1.35	-1.18	25.6835	2.1025	4	2.5936	113.6793	1.01362	0	1.0136	24.338	2.1889	-0.004	4	0.8903	1.039	2.6047	24.22404
16.4	27.5	0.53	-1.4	-1.17	27.4829	1.9285	4	2.54767	113.7077	1.0193	0	1.0193	25.962	2.0028	-0.004	4	0.8732	1.0332	2.5592	25.83975
16.5	29.1	0.51	-1.37	-1.16	29.0832	1.7536	5	2.50352	113.5643	1.02498	0	1.025	27.374	1.8177	-0.004	4	0.8569	1.0276	2.5157	27.25012
16.6	29.8	0.51	-1.35	-1.16	29.7835	1.7124	5	2.48909	113.6223	1.03066	0	1.0307	27.897	1.7737	-0.003	5	0.8522	1.0227	2.5026	27.78928
16.7	30.2	0.5	-1.31	-1.17	30.184	1.6565	5	2.47599	113.51	1.03634	0	1.0363	28.126	1.7154	-0.003	5	0.848	1.0178	2.4909	28.03691
16.8	30.4	0.52	-1.31	-1.17	30.384	1.7114	5	2.48192	113.8131	1.04203	0	1.042	28.159	1.7722	-0.003	5	0.8512	1.0131	2.4985	28.0944
16.9	30	0.58	-1.4	-1.17	29.9829	1.9344	4	2.51806	114.5797	1.04776	0	1.0478	27.616	2.0045	-0.003	4	0.866	1.0086	2.5367	27.5799
17	28.9	0.65	-1.55	-1.18	28.881	2.2506	4	2.57079	115.3221	1.05352	0	1.0535	26.414	2.3358	-0.004	4	0.8874	1.0039	2.5921	26.40086
17.1	26.9	0.69	-1.65	-1.17	26.8798	2.567	4	2.63053	115.5839	1.0593	0	1.0593	24.375	2.6723	-0.005	4	0.9118	0.999	2.6554	24.37745
17.2	23.9	0.71	-1.62	-1.18	23.8802	2.9732	4	2.71045	115.5044	1.06508	0	1.0651	21.421	3.112	-0.005	4	0.9444	0.9938	2.7404	21.42889
17.3	23.1	0.76	-1.43	-1.18	23.0825	3.2925	4	2.74977	115.9195	1.07087	0	1.0709	20.555	3.4527	-0.005	4	0.9608	0.9885	2.7827	20.56451
17.4	24.8	0.79	-1.59	-1.18	24.7805	3.188	4	2.71703	116.3759	1.07669	0	1.0767	22.015	3.3328	-0.005	4	0.9485	0.9836	2.7497	22.03519
17.5	23.9	0.75	-2.22	-1.18	23.8728	3.1417	4	2.72557	115.9047	1.08249	0	1.0825	21.054	3.2909	-0.007	4	0.9532	0.9785	2.7612	21.07615
17.6	24.2	0.75	-1.45	-1.18	24.1823	3.1015	4	2.7177	115.9361	1.08828	0	1.0883	21.221	3.2476	-0.005	4	0.951	0.9736	2.7549	21.24978
17.7	30.8	0.81	-1.46	-1.18	30.7821	2.6314	4	2.59137	117.0878	1.09414	0	1.0941	27.134	2.7284	-0.004	4	0.9013	0.9703	2.6236	27.22349
17.8	42.5	0.84	-1.5	-1.18	42.4816	1.9773	5	2.40451	118.1396	1.10005	0	1.1001	37.618	2.0299	-0.003	5	0.8284	0.9683	2.4314	37.86991
17.9	52.2	0.87	-1.4	-1.18	52.1829	1.6672	5	2.28847	118.898	1.10599	0	1.106	46.182	1.7033	-0.002	5	0.7836	0.9659	2.3133	46.62643
18	59.9	0.94	-1.39	-1.18	59.883	1.5697	5	2.22563	119.8	1.11198	0	1.112	52.853	1.5994	-0.002	5	0.7597	0.963	2.2498	53.48703
18.1	65.4	1	-1.42	-1.18	65.3826	1.5295	5	2.18906	120.467	1.118	0	1.118	57.482	1.5561	-0.002	5	0.7461	0.9598	2.2133	58.29079
18.2	70.1	1.04	-1.39	-1.19	70.083	1.484	5	2.15754	120.9233	1.12405	0	1.1241	61.349	1.5081	-0.001	5	0.7346	0.9566	2.1822	62.34112
18.3	75.2	1.06	-1.35	-1.2	75.1835	1.4099	5	2.11988	121.234	1.13011	0	1.1301	65.528	1.4314	-0.001	5	0.7206	0.9537	2.1449	66.74381
18.4	79.2	1.09	-1.35	-1.2	79.1835	1.3766	5	2.096	121.5647	1.13619	0	1.1362	68.692	1.3966	-0.001	5	0.7121	0.9506	2.1217	70.1149
18.5	81.9	1.12	-1.35	-1.2	81.8835	1.3678	5	2.08313	121.8451	1.14228	0	1.1423	70.684	1.3872	-0.001	5	0.7078	0.9473	2.1096	72.28304
18.6	83.5	1.13	-1.34	-1.2	83.4836	1.3536	5	2.07379	121.9573	1.14838	0	1.1484	71.697	1.3724	-0.001	5	0.7049	0.9439	2.1013	73.4501
18.7	82.5	1.17	-1.27	-1.2	82.4845	1.4185	5	2.09104	122.1825	1.15449	0	1.1545	70.447	1.4386	-0.001	5	0.7124	0.9398	2.1201	72.23562
18.8	81.6	1.18	-1.27	-1.2	81.5845	1.4464	5	2.10019	122.218	1.1606	0	1.1606	69.295	1.4672	-0.001	5	0.7167	0.9359	2.1307	71.13412
18.9	81.5	1.16	-1.33	-1.2	81.4837	1.4236	5	2.09608	122.0899	1.1667	0	1.1667	68.841	1.4443	-0.001	5	0.7159	0.9324	2.128	70.77836
19	82.1	1.16	-1.29	-1.2	82.0842	1.4132	5	2.09158	122.1078	1.17281	0	1.1728	68.989	1.4337	-0.001	5	0.715	0.9291	2.1246	71.0433
19.1	85.8	1.22	-1.27	-1.2	85.7845	1.4222	5	2.07897	122.5844	1.17894	0	1.1789	71.764	1.442	-0.001	5	0.7107	0.926	2.1126	74.04484
19.2	91.9	1.28	-1.27	-1.2	91.8845	1.3931	5	2.05067	123.1032	1.18509	0	1.1851	76.533	1.4113	-0.001	5	0.7003	0.9237	2.0845	79.17827
19.3	99	1.34	-1.27	-1.19	98.9845	1.3538	6	2.0183	123.6199	1.19127	0	1.1913	82.091	1.3702	-9E-04	5	0.6882	0.9217	2.0522	85.18178
19.4	105.5	1.39	-1.24	-1.17	105.485	1.3177	6	1.98997	124.0431	1.19748	0	1.1975	87.089	1.3329	-9E-04	6	0.6778	0.9196	2.0241	90.63112
19.5	107.7	1.41	-1.22	-1.17	107.685	1.3094	6	1.98148	124.198	1.20369	0	1.2037	88.463	1.3242	-8E-04	6	0.6752	0.9166	2.0164	92.24489
19.6	102.9	1.44	-1.25	-1.18	102.885	1.3996	6	2.01565	124.2408	1.2099	0	1.2099	84.036	1.4163	-9E-04	5	0.6893	0.9117	2.0526	87.60991
19.7	92.5	1.49	-1.21	-1.18	92.4852	1.6111	5	2.09113	124.2307	1.21611	0	1.2161	75.05	1.6325	-1E-03	5	0.7196	0.9047	2.1313	78.03721
19.8	80.8	1.53	-1.27	-1.16	80.7845	1.8939	5	2.18204	124.0946	1.22232	0	1.2223	65.091	1.923	-0.001	5	0.756	0.8967	2.2261	67.42366
19.9	64	1.51	-1.27	-1.16	63.9845	2.36	5	2.32125	123.4297	1.22849	0	1.2285	51.084	2.4062	-0.001	5	0.8117	0.8859	2.3717	52.54021
20	50	1.45	-1.27	-1.18	49.9845	2.9009	4	2.46078	122.5307	1.23461	0	1.2346	39.486	2.9744	-0.002	4	0.8681	0.8747	2.5189	40.29777
20.1	40.7	1.37	-1.27	-1.18	40.6845	3.3674	4	2.57034	121.6134	1.24069	0	1.2407	31.792	3.4733	-0.002	4	0.913	0.8647	2.636	32.23522
20.2	33.9	1.17	-1.27	-1.18	33.8845	3.4529	4	2.6364	120.0126	1.24669	0	1.2467	26.179	3.5848	-0.003	4	0.9413	0.8569	2.7097	26.43257
20.3	28.7	0.94	-1.22	-1.18	28.6851	3.277	4	2.67595	118.0048	1.25259	0	1.2526	21.901	3.4266	-0.003	4	0.9597	0.8505	2.7572	22.05
20.4	26.7	0.92	-1.15	-1.18	26.6859	3.4475	4	2.71413	117.6713	1.25848	0	1.2585	20.205	3.6181	-0.003	4	0.9763	0.8442	2.8001	20.28807
20.5	27.7	0.89	-1.17	-1.18	27.6857	3.2147	4	2.68232	117.5184	1.26435	0	1.2644	20.897	3.3685	-0.003	4	0.9645	0.8422	2.7684	21.02957
20.6	30	0.85	-1.2	-1.2	29.9853	2.8347	4	2.6207	117.3765	1.27022	0	1.2702	22.606	2.9601	-0.003	4	0.9407	0.8421	2.705	22.85274
20.7	30	0.93	-1.04	-1.2	29.9873	3.1013	4	2.64576	118.0348	1.27612	0	1.2761	22.499	3.2392	-0.003	4	0.9512	0.8368	2.7318	22.70554
20.8	32.2	1	-1.02	-1.2	32.1875	3.1068	4	2.62289	118.7385	1.28206	0	1.2821	24.106	3.2357	-0.002	4	0.9423	0.8345	2.7078	24.37472
20.9	34.9	0.97	-1.09	-1.2	34.8867	2.7804	4	2.56497	118.7121	1.288	0	1.288	26.086	2.887	-0.002	4	0.9199	0.8346	2.6482	26.5001
21	39.9	0.96	-1.05	-1.2	39.8872	2.4068	4	2.48006	118.9629	1.29395	0	1.294	29.826	2.4875	-0.002	4	0.8865	0.8366	2.5599	30.51485

21.1	48.6	0.98	-1.06	-1.2	48.587	2.017	5	2.36509	119.595	1.29993	0	1.2999	36.377	2.0725	-0.002	5	0.841	0.8411	2.4396	37.58676
21.2	56.6	1.06	-1.17	-1.2	56.5857	1.8733	5	2.29386	120.5409	1.30595	0	1.306	42.329	1.9175	-0.002	5	0.8129	0.8428	2.3651	44.02876
21.3	59.3	1.22	-1.14	-1.2	59.2861	2.0578	5	2.30546	121.6833	1.31204	0	1.312	44.186	2.1044	-0.001	5	0.8177	0.8387	2.3768	45.95363
21.4	59.3	1.4	-1.18	-1.2	59.2856	2.3615	5	2.34565	122.6902	1.31817	0	1.3182	43.976	2.4152	-0.001	5	0.8338	0.8326	2.4185	45.61112
21.5	52.4	1.5	-1.12	-1.2	52.3863	2.8633	5	2.44206	122.8933	1.32432	0	1.3243	38.557	2.9376	-0.002	4	0.8729	0.8221	2.5203	39.67282
21.6	43.6	1.5	-1.05	-1.22	43.5872	3.4414	4	2.55495	122.4448	1.33044	0	1.3304	31.762	3.5497	-0.002	4	0.9192	0.8102	2.6411	32.3548
21.7	35.2	1.38	-1.18	-1.22	35.1856	3.9221	4	2.66161	121.3124	1.3365	0	1.3365	25.327	4.0769	-0.003	4	0.9639	0.7984	2.7577	25.54114
21.8	34	1.35	-1.07	-1.22	33.9869	3.9721	4	2.67639	121.0671	1.34256	0	1.3426	24.315	4.1355	-0.002	3	0.971	0.7936	2.7756	24.48373
21.9	43.9	1.32	-0.99	-1.21	43.8879	3.0077	4	2.51288	121.5262	1.34863	0	1.3486	31.542	3.103	-0.002	4	0.9056	0.8028	2.6031	32.27315
22	74.5	1.31	-1.13	-1.2	74.4862	1.7587	5	2.18613	122.7607	1.35477	0	1.3548	53.981	1.7913	-0.001	5	0.7752	0.8256	2.2598	57.06437
22.1	94.8	1.39	-1.15	-1.21	94.7859	1.4665	5	2.05558	123.7823	1.36096	0	1.361	68.646	1.4878	-9E-04	5	0.7236	0.8335	2.1235	73.59154
22.2	88.8	1.48	-1.08	-1.22	88.7868	1.6669	5	2.11419	124.0819	1.36716	0	1.3672	63.942	1.693	-9E-04	5	0.7474	0.8257	2.1853	68.21746
22.3	69.2	1.56	-1.01	-1.21	69.1876	2.2547	5	2.28298	123.8587	1.37336	0	1.3734	49.378	2.3004	-0.001	5	0.8154	0.8085	2.3631	51.81353
22.4	51.1	1.57	-0.97	-1.21	51.0881	3.0731	4	2.47111	123.1658	1.37952	0	1.3795	36.033	3.1584	-0.001	4	0.8919	0.7893	2.5632	37.08193
22.5	35.6	1.45	-0.97	-1.22	35.5881	4.0744	4	2.66932	121.7022	1.3856	0	1.3856	24.684	4.2395	-0.002	3	0.9739	0.7691	2.7778	24.85896
22.6	24.8	1.23	-0.97	-1.22	24.7881	4.9621	3	2.8427	119.6162	1.39158	0	1.3916	16.813	5.2572	-0.003	3	1	0.7604	2.9671	16.81292
22.7	21.8	1.01	-0.97	-1.22	21.7881	4.6356	3	2.8648	117.8596	1.39747	0	1.3975	14.591	4.9533	-0.003	3	1	0.7572	2.9973	14.59107
22.8	21.8	0.85	-0.95	-1.22	21.7884	3.9012	3	2.81604	116.5977	1.4033	0	1.4033	14.526	4.1697	-0.003	3	1	0.754	2.9516	14.52648
22.9	25.8	0.75	-0.68	-1.22	25.7917	2.9079	4	2.67835	116.0933	1.40911	0	1.4091	17.304	3.076	-0.002	4	0.9869	0.7537	2.8091	17.36871
23	31.8	0.8	-0.67	-1.2	31.7918	2.5164	4	2.56824	117.0756	1.41496	0	1.415	21.468	2.6336	-0.002	4	0.9415	0.7606	2.6892	21.83621
23.1	37.7	0.91	-0.98	-1.19	37.688	2.4146	4	2.49981	118.4332	1.42088	0	1.4209	25.524	2.5092	-0.002	4	0.9132	0.764	2.6141	26.18571
23.2	40.7	0.96	-1.16	-1.18	40.6858	2.3596	5	2.46793	119.0113	1.42683	0	1.4268	27.515	2.4453	-0.002	4	0.9006	0.764	2.5802	28.34466
23.3	38.4	1.01	-1.03	-1.18	38.3874	2.6311	4	2.51782	119.241	1.4328	0	1.4328	25.792	2.7331	-0.002	4	0.9215	0.7563	2.6343	26.41314
23.4	34.1	1.07	-0.82	-1.18	34.09	3.1388	4	2.60698	119.3736	1.43877	0	1.4388	22.694	3.2771	-0.002	4	0.9585	0.7449	2.7309	22.98496
23.5	27.3	1.03	-0.4	-1.18	27.2951	3.7736	4	2.73231	118.5527	1.44469	0	1.4447	17.893	3.9845	-0.001	3	1	0.7324	2.8688	17.89335
23.6	24.6	0.91	-0.31	-1.18	24.5962	3.6998	4	2.76097	117.3924	1.45056	0	1.4506	15.956	3.9316	-1E-03	3	1	0.7295	2.9038	15.95632
23.7	21.6	0.79	-0.18	-1.18	21.5978	3.6578	3	2.80107	116.0406	1.45637	0	1.4564	13.83	3.9223	-6E-04	3	1	0.7265	2.952	13.82993
23.8	20.4	0.72	-0.04	-1.18	20.3995	3.5295	3	2.81045	115.2225	1.46213	0	1.4621	12.952	3.802	-2E-04	3	1	0.7237	2.9663	12.95195
23.9	20.2	0.66	0.01	-1.18	20.2001	3.2673	4	2.79283	114.5619	1.46785	0	1.4679	12.762	3.5233	4E-05	3	1	0.7209	2.9515	12.76167
24	20.1	0.62	-0.05	-1.18	20.0994	3.0847	4	2.7791	114.0923	1.47356	0	1.4736	12.64	3.3287	-2E-04	3	1	0.7181	2.9401	12.64003
24.1	19.7	0.6	-0.01	-1.18	19.6999	3.0457	4	2.7826	113.8034	1.47925	0	1.4793	12.317	3.293	-4E-05	3	1	0.7153	2.9464	12.31749
24.2	19.4	0.6	0.01	-1.18	19.4001	3.0928	4	2.79194	113.766	1.48494	0	1.4849	12.065	3.3491	4E-05	3	1	0.7126	2.958	12.06461
24.3	19.1	0.6	0.01	-1.18	19.1001	3.1413	4	2.80144	113.728	1.49062	0	1.4906	11.814	3.4073	4E-05	3	1	0.7098	2.9698	11.81351
24.4	19.7	0.58	0	-1.18	19.7	2.9442	4	2.7736	113.5553	1.4963	0	1.4963	12.166	3.1862	0	3	1	0.7072	2.9423	12.1658
24.5	19.8	0.57	-0.07	-1.2	19.7991	2.8789	4	2.76595	113.4403	1.50197	0	1.502	12.182	3.1152	-3E-04	3	1	0.7045	2.9361	12.18209
24.6	18.1	0.53	-0.07	-1.21	18.0991	2.9283	4	2.80148	112.689	1.50761	0	1.5076	11.005	3.1944	-3E-04	3	1	0.7019	2.9784	11.00521
24.7	15.7	0.5	-0.05	-1.22	15.6994	3.1848	3	2.87277	111.9157	1.5132	0	1.5132	9.3749	3.5246	-3E-04	3	1	0.6993	3.0599	9.37493
24.8	15.1	0.48	0.01	-1.22	15.1001	3.1788	3	2.88582	111.5221	1.51878	0	1.5188	8.9423	3.5343	5E-05	3	1	0.6967	3.0773	8.94227
24.9	15.4	0.44	0.01	-1.22	15.4001	2.8571	4	2.85149	110.9334	1.52433	0	1.5243	9.1029	3.171	5E-05	3	1	0.6942	3.0441	9.1029
25	16.7	0.47	0.04	-1.22	16.7005	2.8143	4	2.8192	111.6137	1.52991	0	1.5299	9.916	3.0981	0.0002	3	1	0.6916	3.0078	9.91601
25.1	18.8	0.49	0.08	-1.22	18.801	2.6063	4	2.75799	112.2076	1.53552	0	1.5355	11.244	2.838	0.0003	3	1	0.6891	2.9412	11.24407
25.2	21.3	0.59	0.08	-1.22	21.301	2.7698	4	2.73054	113.871	1.54121	0	1.5412	12.821	2.9859	0.0003	3	1	0.6865	2.9074	12.82094
25.3	27.2	0.84	0.05	-1.23	27.2006	3.0882	4	2.67703	117.0522	1.54706	0	1.5471	16.582	3.2744	0.0001	3	1	0.684	2.8416	16.58209
25.4	34.1	1.01	-0.81	-1.24	34.0901	2.9627	4	2.59054	118.9514	1.55301	0	1.553	20.951	3.1042	-0.002	4	0.9687	0.6896	2.7433	21.20447
25.5	33	1.01	-2.41	-1.24	32.9705	3.0633	4	2.61099	118.87	1.55895	0	1.559	20.149	3.2154	-0.006	4	0.9781	0.6845	2.7673	20.32123
25.6	28.6	0.94	-3	-1.24	28.5633	3.2909	4	2.67856	117.9944	1.56485	0	1.5649	17.253	3.4817	-0.008	3	1	0.6762	2.8444	17.25299
25.7	26.8	0.9	-2.89	-1.24	26.7646	3.3627	4	2.70615	117.5176	1.57073	0	1.5707	16.04	3.5723	-0.008	3	1	0.6736	2.8762	16.03961
25.8	39.3	0.9	-2.67	-1.24	39.2673	2.292	5	2.47163	118.4525	1.57665	0	1.5767	23.905	2.3879	-0.005	4	0.9235	0.6919	2.6216	24.64577
25.9	64.3	0.77	-3.3	-1.26	64.2596	1.1983	5	2.12858	118.5123	1.58258	0	1.5826	39.604	1.2285	-0.004	5	0.7835	0.7295	2.2538	43.21095
26	87.5	0.73	-6.23	-1.26	87.4237	0.835	6	1.92742	118.8728	1.58852	0	1.5885	54.035	0.8505	-0.005	6	0.7022	0.7518	2.0397	60.98446
26.1	90.2	0.58	-7.05	-1.26	90.1137	0.6436	6	1.85173	117.2637	1.59439	0	1.5944	55.519	0.6552	-0.006	6	0.6734	0.7587	1.9632	63.47474
26.2	85.2	0.77	-6.71	-1.29	85.1179	0.9046	6	1.95749	119.198	1.60035	0	1.6004	52.187	0.922	-0.006	5	0.7156	0.7438	2.0732	58.70497
26.3	94.3	0.9	-5.9	-1.32	94.2278	0.9551	6	1.93691	120.5874	1.60637	0	1.6064	57.659	0.9717	-0.005	6	0.7068	0.7445	2.0495	65.16657
26.4	114.6	0.95	-3.27	-1.45	114.56	0.8293	6	1.83229	121.4596	1.61245	0	1.6125	70.047	0.8411	-0.002	6	0.6645	0.7558	1.9376	80.68188
26.5	150.5	0.97	-2.28	-1.53	150.472	0.6446	6	1.67158	122.2771	1.61856	0	1.6186	91.967	0.6517	-0.001	6	0.5997	0.775	1.7667	109.0267
26.6	180.4	1.11	-2.9	-1.52	180.365	0.6154	6	1.5975	123.7055	1.62475	0	1.6248	110.01	0.621	-0.001	6	0.5694	0.7833	1.6866	132.3219
26.7	204.7	1.31	-2.92	-1.51	204.664	0.6401	6	1.56646	125.226	1.63101	0	1.631	124.48	0.6452	-0.001	6	0.5565	0.786	1.6518	150.8209
26.8	225	1.51	-1.95	-1.5	224.976	0.6712	6	1.5495	126.4964	1.63733	0	1.6373	136.4	0.6761	-6E-04	6	0.5493	0.7868	1.6323	166.0638
26.9	235.1	1.65	-0.54	-1.51	235.093	0.7019	6	1.54876	127.2524	1.6437	0	1.6437	142.03	0.7068	-2E-04	6	0.5491	0.7852	1.6309	173.2311
27	232.9	1.78	-0.12	-1.53	232.899	0.7643	6	1.57738	127.7844	1.65008	0	1.6501	140.14	0.7697	-4E-05	6	0.5608	0.7794	1.6608	170.3433
27.1	224.8	1.91	-0.38	-1.52	224.795	0.8497	6	1.62069	128.2138	1.6565	0	1.6565	134.71	0.856	-1E-04	6	0.5785	0.7716	1.7065	162.716
27.2	215.5	2.03	0.02	-1.53	215.5	0.942	6	1.66549	128.5567	1.66292	0	1.6629	128.59	0.9493	1E-05	6	0.5969	0.7635	1.754	154.2964
27.3	205.1	2.14	0.34	-1.52	205.104	1.0434	6	1.71236	128.8222	1.66936	0	1.6694	121.86	1.0519	0.0001	6	0.6162	0.7551	1.8038	145.1695
27.4	192.5	2.16	-0.52	-1.53	192.494	1.1221	6	1.75424	128.7355	1.6758	0	1.6758	113.87	1.132	-2E-04	6	0.6338	0.7472	1.8492	134.749
27.5	175.7	1.99	-0.07	-1.53	175.699	1.1326	6	1.78471	127.9131	1.6822	0	1.6822	103.45	1.1436	-3E-05	6	0.6474	0.7407	1.8842	121.8156
27.6	158.4	1.79	-0.07	-1.53	158.399	1.1301	6	1.81583	126.8852	1.68854	0	1.6885	92.808	1.1422	-3E-05	6	0.6616	0.734	1.9205	108.7141
27.7	140.8	1.67	-0.89	-1.53	140.789	1.1862	6	1.8672	126.0901	1.69485	0	1.6949	82.069	1.2006	-5E-04	6	0.6837	0.7246	1.9778	95.25605
27.8	128.6	1.58	-1.34	-1.55	128.584	1.2288	6	1.90628	125.4635	1.70112	0	1.7011	74.588	1.2453	-8E-04	6	0.7008	0.717	2.0219	85.97375
27.9	126.2	1.57	-1.8	-1.55	126.178	1.2443	6	1.91598	125.371	1.70739	0	1.7074	72.901	1.2613	-0.001	6	0.7055	0.7135	2.0335	83.93348
28	127.3	1.61	-3.45	-1.55	127.258	1.2652	6	1.91826	125.5759	1.71367	0	1.7137	73.261	1.2824	-0.002	6	0.7069	0.7112	2.0364	84.38089
28.1	130.7	1.63	-5.11	-1.57	130.637	1.2477	6	1.90587	125.7301	1.71995	0	1.72	74.954	1.2644	-0.003	6	0.7024	0.7109	2.0238	86.61358

28.2	136.6	1.62	-5.77	-1.57	136.529	1.1866	6	1.87694	125.7927	1.72624	0	1.7262	78.091	1.2018	-0.003	6	0.6913	0.713	1.9937	90.83
28.3	146	1.6	-5.93	-1.6	145.927	1.0964	6	1.83235	125.8642	1.73254	0	1.7325	83.228	1.1096	-0.003	6	0.6737	0.7173	1.947	97.75482
28.4	157.4	1.55	-6.25	-1.61	157.324	0.9852	6	1.77674	125.8153	1.73883	0	1.7388	89.477	0.9962	-0.003	6	0.6518	0.7234	1.8887	106.3695
28.5	165.6	1.47	-6.9	-1.63	165.516	0.8881	6	1.72995	125.5513	1.7451	0	1.7451	93.846	0.8976	-0.003	6	0.6337	0.7283	1.8403	112.7206
28.6	167.7	1.43	-7.13	-1.63	167.613	0.8532	6	1.71416	125.3802	1.75137	0	1.7514	94.704	0.8622	-0.003	6	0.6281	0.7287	1.8248	114.224
28.7	166.6	1.41	-7.14	-1.65	166.513	0.8468	6	1.71409	125.2611	1.75764	0	1.7576	93.737	0.8558	-0.003	6	0.6288	0.7268	1.8259	113.1668
28.8	162.6	1.43	-6.04	-1.65	162.526	0.8799	6	1.73306	125.305	1.7639	0	1.7639	91.14	0.8895	-0.003	6	0.6371	0.7221	1.8469	109.7104
28.9	155.5	1.51	-5.2	-1.67	155.436	0.9715	6	1.77641	125.5945	1.77018	0	1.7702	86.808	0.9827	-0.002	6	0.6551	0.7138	1.8934	103.6652
29	146	1.58	-4.71	-1.67	145.942	1.0826	6	1.82853	125.7724	1.77647	0	1.7765	81.153	1.096	-0.002	6	0.6769	0.7042	1.9497	95.94502
29.1	137.8	1.61	-4.21	-1.69	137.748	1.1688	6	1.86963	125.7691	1.78276	0	1.7828	76.267	1.1841	-0.002	6	0.6943	0.6962	1.9946	89.45513
29.2	134.3	1.6	-4.07	-1.69	134.25	1.1918	6	1.88356	125.6607	1.78904	0	1.789	74.04	1.2079	-0.002	6	0.7007	0.6921	2.0108	86.64256
29.3	132	1.37	-5.18	-1.69	131.937	1.0384	6	1.84849	124.4828	1.79527	0	1.7953	72.491	1.0527	-0.003	6	0.6882	0.695	1.9772	85.48105
29.4	123.6	1.41	-6.48	-1.69	123.521	1.1415	6	1.89731	124.5326	1.80149	0	1.8015	67.566	1.1584	-0.004	6	0.7088	0.6858	2.0304	78.89034
29.5	117.2	1.37	-7	-1.69	117.114	1.1698	6	1.92158	124.1921	1.8077	0	1.8077	63.786	1.1881	-0.004	5	0.7198	0.6801	2.0584	74.11601
29.6	113.5	1.22	-7.18	-1.69	113.412	1.0757	6	1.90787	123.2653	1.81386	0	1.8139	61.525	1.0932	-0.005	6	0.7158	0.6799	2.0471	71.71125
29.7	104.6	1.24	-7.5	-1.71	104.508	1.1865	6	1.96262	123.1849	1.82002	0	1.82	56.421	1.2075	-0.005	5	0.739	0.6698	2.1073	65.00178
29.8	94.7	1.41	-8.8	-1.71	94.5923	1.4906	5	2.06103	123.8818	1.82622	0	1.8262	50.797	1.52	-0.007	5	0.7794	0.6535	2.2126	57.29688
29.9	81.4	1.56	-9.22	-1.7	81.2872	1.9191	5	2.18403	124.2518	1.83243	0	1.8324	43.36	1.9634	-0.008	5	0.8303	0.6338	2.3456	47.59457
30	64.3	1.57	-9.55	-1.7	64.1831	2.4461	5	2.331	123.7224	1.83862	0	1.8386	33.908	2.5183	-0.011	4	0.893	0.6105	2.5083	35.97303

	CPT-13	In situ data							Basic output data										
Depth (ft)	qc (tsf)	fs (tsf)	u (psi)	Other	qt (tsf)	Rf(%)	SBT	Ic SBT	ã (pcf)	ó,v (tsf)	u0 (tsf)	ó',vo (tsf)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.1	61.7	0	0.04	-0.91	61.7005	0	0	0	120.9	0.00605	0	0.0061	10206	0	5E-05	0	1	175.04	0	0
0.2	109	0	0.08	-1.44	109.001	0	0	0	120.9	0.01209	0	0.0121	9014.8	0	5E-05	0	1	87.519	0	0
0.3	105.7	0.24	0.08	-1.62	105.701	0.2271	6	1.57929	111.1964	0.01765	0	0.0177	5987.8	0.2271	5E-05	7	0.2786	3.1279	1.1328	312.4119
0.4	154.9	0.63	0.02	-1.56	154.9	0.4067	6	1.54576	119.19	0.02361	0	0.0236	6560	0.4068	1E-05	7	0.2966	3.0889	1.1626	452.1228
0.5	182	0.73	0	-1.91	182	0.4011	6	1.48379	120.6612	0.02964	0	0.0296	6138.9	0.4012	0	7	0.2833	2.7537	1.1442	473.5695
0.6	206.4	0.86	-0.08	-3.46	206.399	0.4167	6	1.44818	122.1672	0.03575	0	0.0358	5772.3	0.4167	-3E-05	7	0.2819	2.5986	1.1362	506.8046
0.7	231.3	1.05	-0.04	-2.98	231.3	0.454	6	1.43068	123.9056	0.04195	0	0.042	5513.2	0.454	-1E-05	7	0.2853	2.5115	1.1415	548.902
0.8	260.9	1.07	-0.1	-2.63	260.899	0.4101	6	1.36233	124.3373	0.04816	0	0.0482	5416	0.4102	-3E-05	7	0.2695	2.2992	1.0988	566.8182
0.9	283.2	1.06	-0.15	-2.85	283.198	0.3743	7	1.30991	124.4687	0.05439	0	0.0544	5206.2	0.3744	-4E-05	7	0.2571	2.1448	1.0654	573.9379
1	313.2	1.09	-0.08	-3.71	313.199	0.348	7	1.25597	124.9184	0.06063	0	0.0606	5164.6	0.3481	-2E-05	7	0.2445	2.0121	1.0312	595.4756
1.1	327.9	1.21	-0.08	-3.5	327.899	0.369	7	1.25597	125.7945	0.06692	0	0.0669	4898.7	0.3691	-2E-05	7	0.2487	1.9871	1.0406	615.6643
1.2	312.3	1.38	-0.08	-3.5	312.299	0.4419	7	1.32238	126.6376	0.07325	0	0.0733	4262.2	0.442	-2E-05	7	0.2753	2.0856	1.1011	615.4192
1.3	308.4	1.68	-0.02	-3.65	308.4	0.5448	6	1.38751	128.0462	0.07966	0	0.0797	3870.6	0.5449	0	7	0.2998	2.1718	1.1669	632.8312
1.4	305.8	2.11	0	-3.66	305.8	0.69	6	1.46268	129.6931	0.08614	0	0.0861	3549	0.6902	0	7	0.3286	2.2802	1.2432	658.8111
1.5	297.9	2.56	0	-3.79	297.9	0.8594	6	1.5406	131.0438	0.09269	0	0.0927	3212.8	0.8596	0	7	0.3582	2.392	1.3208	673.2337
1.6	292.5	2.99	0.03	-3.82	292.5	1.0222	6	1.60293	132.1352	0.0993	0	0.0993	2944.6	1.0226	1E-05	6	0.3825	2.472	1.3842	683.1076
1.7	283.1	3.26	0.08	-3.84	283.101	1.1515	6	1.65187	132.6882	0.10593	0	0.1059	2671.4	1.152	2E-05	6	0.4014	2.5186	1.4331	673.5988
1.8	273.2	3.5	0.14	-3.86	273.202	1.2811	6	1.69763	133.1211	0.11259	0	0.1126	2425.5	1.2816	4E-05	6	0.419	2.5566	1.4786	659.8237
1.9	263.2	3.64	0.15	-3.88	263.202	1.383	6	1.73373	133.3171	0.11926	0	0.1193	2206	1.3836	4E-05	6	0.4329	2.5727	1.5144	639.6605
2	251.9	3.69	0.12	-3.92	251.901	1.4649	6	1.76514	133.3099	0.12592	0	0.1259	1999.5	1.4656	3E-05	6	0.4448	2.5774	1.5449	613.292
2.1	244.9	3.51	0.11	-3.96	244.901	1.4332	6	1.76535	132.8753	0.13257	0	0.1326	1846.4	1.434	3E-05	6	0.4456	2.5232	1.5461	583.6863
2.2	237.3	3.15	0.15	-3.97	237.302	1.3274	6	1.74824	132.0066	0.13917	0	0.1392	1704.2	1.3282	5E-05	6	0.4397	2.4401	1.5298	546.9247
2.3	225.5	3	0.15	-3.96	225.502	1.3304	6	1.76324	131.5252	0.14574	0	0.1457	1546.3	1.3312	5E-05	6	0.4452	2.4173	1.5434	514.8379
2.4	211.1	2.83	0.15	-3.97	211.102	1.3406	6	1.78443	130.9374	0.15229	0	0.1523	1385.2	1.3416	5E-05	6	0.4526	2.4044	1.5618	479.345
2.5	189.3	2.58	0.21	-3.94	189.303	1.3629	6	1.82114	129.9948	0.15879	0	0.1588	1191.2	1.364	8E-05	6	0.4643	2.4123	1.5916	431.2167
2.6	174.4	2.29	0.23	-3.94	174.403	1.3131	6	1.83329	128.9224	0.16523	0	0.1652	1054.5	1.3143	0.0001	6	0.4678	2.3836	1.5999	392.5073
2.7	159.9	2.07	0.22	-3.96	159.903	1.2945	6	1.85482	127.9717	0.17163	0	0.1716	930.65	1.2959	0.0001	6	0.4747	2.3712	1.6171	357.9491
2.8	147.8	1.87	0.16	-3.96	147.802	1.2652	6	1.87172	127.0363	0.17799	0	0.178	829.42	1.2667	8E-05	6	0.4802	2.3534	1.6306	328.3445
2.9	137	1.64	0.23	-3.96	137.003	1.1971	6	1.87849	125.8909	0.18428	0	0.1843	742.45	1.1987	0.0001	6	0.482	2.3219	1.6346	300.234
3	127.2	1.41	0.19	-3.96	127.202	1.1085	6	1.87929	124.6042	0.19051	0	0.1905	666.69	1.1101	0.0001	6	0.4817	2.2838	1.6329	274.1448
3.1	118.3	1.26	0.05	-3.96	118.301	1.0651	6	1.89123	123.6043	0.19669	0	0.1967	600.46	1.0669	3E-05	6	0.4856	2.2639	1.6423	252.6859
3.2	109.5	1.13	0.03	-3.97	109.5	1.032	6	1.90769	122.619	0.20282	0	0.2028	538.89	1.0339	2E-05	6	0.4911	2.2506	1.6559	232.4777
3.3	102.4	1.03	0.11	-3.97	102.401	1.0059	6	1.92289	121.7775	0.20891	0	0.2089	489.17	1.0079	8E-05	6	0.4964	2.2374	1.6691	216.0897
3.4	95.9	0.97	0.15	-3.97	95.9018	1.0115	6	1.94647	121.1784	0.21497	0	0.215	445.12	1.0137	0.0001	6	0.5049	2.2359	1.6907	202.1987
3.5	89.6	0.91	0.15	-3.97	89.6018	1.0156	6	1.9706	120.5455	0.221	0	0.221	404.45	1.0181	0.0001	6	0.5135	2.235	1.7126	188.7941
3.6	82.3	0.84	0.11	-3.97	82.3014	1.0206	6	2.00094	119.7525	0.22698	0	0.227	361.59	1.0235	0.0001	6	0.524	2.2405	1.7395	173.786
3.7	76.1	0.77	0.08	-3.96	76.101	1.0118	6	2.02561	118.9248	0.23293	0	0.2329	325.71	1.0149	8E-05	6	0.5327	2.2394	1.7615	160.5649
3.8	70.9	0.7	0.08	-3.96	70.901	0.9873	6	2.04382	118.0548	0.23883	0	0.2388	295.86	0.9906	8E-05	6	0.5391	2.2311	1.7777	148.9936
3.9	66	0.63	0.03	-3.96	66.0004	0.9545	5	2.06036	117.1092	0.24469	0	0.2447	268.73	0.9581	3E-05	6	0.545	2.221	1.7923	138.0251
4	61.2	0.57	0	-3.96	61.2	0.9314	5	2.08099	116.1927	0.2505	0	0.2505	243.31	0.9352	0	6	0.5523	2.2159	1.8107	127.6435
4.1	57.7	0.52	0.06	-3.96	57.7007	0.9012	5	2.09397	115.3774	0.25627	0	0.2563	224.16	0.9052	8E-05	6	0.5571	2.2035	1.8229	119.6269
4.2	54.5	0.48	0.08	-3.96	54.501	0.8807	5	2.10899	114.6526	0.262	0	0.262	207.02	0.885	0.0001	6	0.5629	2.1939	1.8372	112.4607
4.3	51.5	0.44	0.08	-3.96	51.501	0.8544	5	2.12234	113.8778	0.26769	0	0.2677	191.39	0.8588	0.0001	6	0.568	2.1828	1.8499	105.6912
4.4	48.5	0.41	0.08	-3.96	48.501	0.8453	5	2.14181	113.2147	0.27335	0	0.2734	176.43	0.8501	0.0001	6	0.5753	2.1785	1.8685	99.29365
4.5	45	0.38	0.08	-3.96	45.001	0.8444	5	2.16911	112.476	0.27898	0	0.279	160.31	0.8497	0.0001	6	0.5852	2.1817	1.8938	92.2107
4.6	42.1	0.35	0.06	-3.96	42.1007	0.8313	5	2.19018	111.7118	0.28456	0	0.2846	146.95	0.837	0.0001	6	0.593	2.1787	1.9136	86.10258
4.7	40	0.32	0	-3.96	40	0.8	5	2.20063	110.9313	0.29011	0	0.2901	136.88	0.8058	0	6	0.5972	2.1658	1.9241	81.27906
4.8	38.5	0.3	0	-3.98	38.5	0.7792	5	2.20915	110.3658	0.29563	0	0.2956	129.23	0.7853	0	6	0.601	2.152	1.9335	77.70016
4.9	37.8	0.29	0	-3.98	37.8	0.7672	5	2.21266	110.073	0.30113	0	0.3011	124.53	0.7734	0	6	0.6034	2.1347	1.9392	75.65311
5	37.1	0.29	-0.03	-3.98	37.0996	0.7817	5	2.22375	110.0274	0.30663	0	0.3066	119.99	0.7882	-6E-05	6	0.6087	2.1252	1.9522	73.89841
5.1	35.8	0.29	-0.08	-3.98	35.799	0.8101	5	2.24493	109.9404	0.31213	0	0.3121	113.69	0.8172	-2E-04	6	0.6173	2.1245	1.9742	71.25267
5.2	34.5	0.25	-0.08	-3.98	34.499	0.7247	5	2.23505	108.7642	0.31757	0	0.3176	107.63	0.7314	-2E-04	6	0.6143	2.0945	1.9657	67.66016
5.3	32.8	0.22	-0.08	-3.99	32.799	0.6708	5	2.2384	107.7056	0.32295	0	0.323	100.56	0.6774	-2E-04	6	0.6159	2.077	1.9693	63.74843
5.4	30.6	0.2	-0.08	-4	30.599	0.6536	5	2.25992	106.8388	0.3283	0	0.3283	92.206	0.6607	-2E-04	6	0.624	2.0755	1.9898	59.37777
5.5	28.1	0.18	-0.15	-4	28.0982	0.6406	5	2.28898	105.86	0.33359	0	0.3336	83.23	0.6483	-4E-04	6	0.6345	2.0801	2.0169	54.58122
5.6	28.3	0.17	-0.53	-3.97	28.2935	0.6008	5	2.27392	105.4586	0.33886	0	0.3389	82.496	0.6081	-0.001	6	0.6305	2.0501	2.0057	54.16261
5.7	27.9	0.19	-0.53	-3.96	27.8935	0.6812	5	2.30388	106.2377	0.34417	0	0.3442	80.045	0.6897	-0.001	6	0.6428	2.0584	2.0375	53.59374
5.8	27.6	0.2	-0.53	-3.97	27.5935	0.7248	5	2.32049	106.5867	0.3495	0	0.3495	77.951	0.7341	-0.001	6	0.6487	2.0516	2.0571	52.8249
5.9	27	0.2	-0.53	-3.98	26.9935	0.7409	5	2.33339	106.5331	0.35483	0	0.3548	75.075	0.7508	-0.001	5	0.6547	2.0448	2.0717	51.47936
6	26.7	0.19	-0.53	-4	26.6935	0.7118	5	2.32961	106.1305	0.36014	0	0.3601	73.121	0.7215	-0.001	5	0.6545	2.0247	2.0706	50.38884
6.1	26.3	0.18	-0.53	-4	26.2935	0.6846	5	2.32771	105.6981	0.36542	0	0.3654	70.954	0.6942	-0.001	5	0.655	2.0065	2.0711	49.16686
6.2	26.1	0.17	-0.53	-4	26.0935	0.6515	5	2.321	105.2612	0.37068	0	0.3707	69.393	0.6609	-0.001	6	0.6538	1.9852	2.0672	48.26144
6.3	26.1	0.17	-0.53	-4	26.0935	0.6515	5	2.321	105.2612	0.37595	0	0.376	68.407	0.661	-0.001	6	0.6552	1.97	2.0702	47.88094
6.4	25.8	0.17	-0.53	-4.01	25.7935	0.6591	5	2.32774	105.233	0.38121	0	0.3812	66.662	0.669	-0.002	5	0.659	1.9597	2.0792	47.0644
6.5	25	0.18	-0.54	-4	24.9934	0.7202	5	2.35734	105.5744	0.38649	0	0.3865	63.668	0.7315	-0.002	5	0.671	1.9657	2.1099	45.7124
6.6	24	0.18	-0.57	-4.02	23.993	0.7502	5	2.38124	105.4747	0.39176	0	0.3918	60.244	0.7627	-0.002	5	0.6808	1.9668	2.1345	43.86908
6.7	22.8	0.18	-0.53	-4.03	22.7935	0.7897	5	2.41128	105.3497	0.39703	0	0.397	56.41	0.8037	-0.002	5	0.6926	1.9718	2.1648	41.73604
6.8	21.9	0.16	-0.53	-4.03	21.8935	0.7308	5	2.41149	104.3896	0.40225	0	0.4023	53.428	0.7445	-0.002	5	0.6935	1.9556	2.1663	39.71969

6.9	21	0.14	-0.6	-4.02	20.9927	0.6669	5	2.41032	103.3101	0.40741	0	0.4074	50.527	0.6801	-0.002	5	0.6937	1.9388	2.1663	37.71967
7	20.5	0.13	-0.55	-4.03	20.4933	0.6344	5	2.41046	102.7091	0.41255	0	0.4126	48.675	0.6474	-0.002	5	0.6948	1.924	2.1684	36.51327
7.1	20.3	0.11	-0.6	-4.03	20.2927	0.5421	5	2.38622	101.4628	0.41762	0	0.4176	47.591	0.5535	-0.002	5	0.6868	1.8937	2.147	35.57019
7.2	20.3	0.11	-0.6	-4.03	20.2927	0.5421	5	2.38622	101.4628	0.4227	0	0.4227	47.008	0.5536	-0.002	5	0.6882	1.8804	2.1499	35.31196
7.3	20.5	0.1	-0.6	-4.03	20.4927	0.488	5	2.3644	100.7893	0.42773	0	0.4277	46.91	0.4984	-0.002	5	0.6815	1.8538	2.1316	35.1535
7.4	20.9	0.1	-0.6	-4.05	20.8927	0.4786	5	2.35343	100.8364	0.43278	0	0.4328	47.276	0.4888	-0.002	5	0.679	1.8349	2.1244	35.48077
7.5	21.8	0.11	-0.6	-4.05	21.7927	0.5048	5	2.3455	101.6367	0.43786	0	0.4379	48.771	0.5151	-0.002	5	0.678	1.8188	2.1209	36.70752
7.6	24.1	0.11	-0.6	-4.05	24.0927	0.4566	5	2.28841	101.8814	0.44295	0	0.443	53.391	0.4651	-0.002	6	0.6592	1.7754	2.0712	39.68217
7.7	26.2	0.13	-0.6	-4.05	26.1927	0.4963	5	2.26933	103.3076	0.44812	0	0.4481	57.45	0.505	-0.002	6	0.6546	1.7549	2.0583	42.69791
7.8	27.4	0.14	-0.6	-4.05	27.3927	0.5111	5	2.25675	103.9591	0.45332	0	0.4533	59.427	0.5197	-0.002	6	0.6518	1.7376	2.0502	44.23853
7.9	27.9	0.16	-0.6	-4.06	27.8927	0.5736	5	2.27074	104.9802	0.45856	0	0.4586	59.826	0.5832	-0.002	6	0.6586	1.7345	2.0673	44.97014
8	27.6	0.16	-0.6	-4.06	27.5927	0.5799	5	2.27701	104.9539	0.46381	0	0.4638	58.491	0.5898	-0.002	5	0.6621	1.7264	2.0756	44.26417
8.1	26.8	0.15	-0.6	-4.05	26.7927	0.5599	5	2.28203	104.4099	0.46903	0	0.469	56.123	0.5698	-0.002	5	0.6648	1.7175	2.0821	42.72787
8.2	25.7	0.14	-0.61	-4.04	25.6925	0.5449	5	2.2936	103.8028	0.47422	0	0.4742	53.178	0.5552	-0.002	5	0.6698	1.7119	2.0946	40.79977
8.3	24.6	0.13	-0.68	-4.05	24.5917	0.5286	5	2.30549	103.1537	0.47938	0	0.4794	50.299	0.5391	-0.002	5	0.675	1.7064	2.1073	38.88646
8.4	23.6	0.13	-0.68	-4.06	23.5917	0.551	5	2.32933	103.0525	0.48453	0	0.4845	47.689	0.5626	-0.002	5	0.6847	1.7071	2.1321	37.27905
8.5	22.8	0.12	-0.68	-4.07	22.7917	0.5265	5	2.33494	102.3827	0.48965	0	0.4897	45.547	0.5381	-0.002	5	0.6876	1.6986	2.139	35.80246
8.6	22.8	0.13	-0.68	-4.06	22.7917	0.5704	5	2.34917	102.9683	0.4948	0	0.4948	45.062	0.583	-0.002	5	0.6942	1.695	2.1557	35.71715
8.7	22.6	0.15	-0.68	-4.07	22.5917	0.664	5	2.38079	103.9939	0.5	0	0.5	44.183	0.679	-0.002	5	0.7073	1.6993	2.1893	35.47929
8.8	24	0.16	-0.68	-4.07	23.9917	0.6669	5	2.35819	104.6128	0.50523	0	0.5052	46.487	0.6812	-0.002	5	0.7008	1.6787	2.1713	37.26108
8.9	26.2	0.16	-0.68	-4.06	26.1917	0.6109	5	2.30722	104.8268	0.51047	0	0.5105	50.309	0.623	-0.002	5	0.6838	1.6461	2.1261	39.95165
9	27.5	0.17	-0.68	-4.05	27.4917	0.6184	5	2.29063	105.3885	0.51574	0	0.5157	52.305	0.6302	-0.002	5	0.6793	1.6293	2.1137	41.53821
9.1	27.7	0.18	-0.68	-4.03	27.6917	0.65	5	2.29747	105.8244	0.52103	0	0.521	52.148	0.6625	-0.002	5	0.6831	1.6225	2.1231	41.66288
9.2	27.2	0.18	-0.68	-4.03	27.1917	0.662	5	2.3081	105.78	0.52632	0	0.5263	50.664	0.675	-0.002	5	0.6881	1.617	2.1355	40.74883
9.3	25.7	0.17	-0.68	-4.03	25.6917	0.6617	5	2.33004	105.2234	0.53158	0	0.5316	47.33	0.6757	-0.002	5	0.697	1.6157	2.158	38.41945
9.4	24.4	0.17	-0.68	-4.05	24.3917	0.697	5	2.36031	105.0967	0.53684	0	0.5368	44.436	0.7126	-0.002	5	0.7091	1.6179	2.189	36.4752
9.5	24.1	0.16	-0.68	-4.05	24.0917	0.6641	5	2.35577	104.6229	0.54207	0	0.5421	43.444	0.6794	-0.002	5	0.7084	1.6061	2.1866	35.74592
9.6	24.6	0.17	-0.68	-4.07	24.5917	0.6913	5	2.35555	105.1166	0.54733	0	0.5473	43.931	0.707	-0.002	5	0.7097	1.5966	2.1893	36.27975
9.7	25.2	0.17	-0.68	-4.06	25.1917	0.6748	5	2.34149	105.1754	0.55258	0	0.5526	44.589	0.69	-0.002	5	0.7058	1.5817	2.1784	36.83229
9.8	25.9	0.18	-0.68	-4.05	25.8917	0.6952	5	2.3367	105.6605	0.55787	0	0.5579	45.412	0.7105	-0.002	5	0.7055	1.5708	2.1767	37.60842
9.9	26.6	0.18	-0.68	-4.05	26.5917	0.6769	5	2.32112	105.7256	0.56315	0	0.5632	46.219	0.6916	-0.002	5	0.701	1.556	2.1643	38.27532
10	28.1	0.2	-0.68	-4.05	28.0917	0.712	5	2.30999	106.6303	0.56848	0	0.5685	48.415	0.7267	-0.002	5	0.6985	1.5433	2.157	40.14382
10.1	32	0.25	-0.68	-4.06	31.9917	0.7815	5	2.27961	108.5801	0.57391	0	0.5739	54.743	0.7957	-0.002	5	0.6894	1.5246	2.1325	45.26903
10.2	39.9	0.32	-0.68	-4.09	39.8917	0.8022	5	2.20224	110.9247	0.57946	0	0.5795	67.843	0.814	-0.001	6	0.6635	1.4911	2.0638	55.39852
10.3	49.1	0.41	-0.68	-4.09	49.0917	0.8352	5	2.13456	113.2442	0.58512	0	0.5851	82.9	0.8453	-0.001	6	0.6411	1.462	2.0044	67.0225
10.4	57.1	0.49	-0.68	-4.09	57.0917	0.8583	5	2.08599	114.9167	0.59087	0	0.5909	95.623	0.8672	-9E-04	6	0.6254	1.4396	1.9624	76.87377
10.5	59	0.56	-0.68	-4.09	58.9917	0.9493	5	2.09882	115.9736	0.59667	0	0.5967	97.869	0.959	-8E-04	6	0.6316	1.436	1.978	79.24943
10.6	58.6	0.58	-0.68	-4.11	58.5917	0.9899	5	2.11167	116.2138	0.60248	0	0.6025	96.251	1.0002	-8E-04	6	0.6375	1.4319	1.9925	78.47524
10.7	57.9	0.58	-0.68	-4.11	57.8917	1.0019	5	2.11894	116.1844	0.60829	0	0.6083	94.172	1.0125	-9E-04	6	0.6411	1.4261	2.0014	77.20367
10.8	57.8	0.58	-0.72	-4.12	57.7912	1.0036	5	2.11999	116.1802	0.6141	0	0.6141	93.108	1.0144	-9E-04	6	0.6425	1.4185	2.0043	76.65107
10.9	58.7	0.56	-0.75	-4.13	58.6908	0.9542	5	2.10191	115.9611	0.61989	0	0.6199	93.679	0.9643	-9E-04	6	0.6369	1.4057	1.9887	77.14662
11	62.2	0.56	-0.68	-4.15	62.1917	0.9004	5	2.0669	116.1024	0.6257	0	0.6257	98.396	0.9096	-8E-04	6	0.6252	1.3888	1.9574	80.80829
11.1	69.6	0.57	-0.68	-4.16	69.5917	0.8191	6	2.00335	116.5061	0.63152	0	0.6315	109.2	0.8266	-7E-04	6	0.6032	1.3652	1.899	88.97568
11.2	83.8	0.61	-0.68	-4.15	83.7917	0.728	6	1.9079	117.4553	0.6374	0	0.6374	130.46	0.7336	-6E-04	6	0.5698	1.3349	1.8106	104.9027
11.3	110.8	0.69	-0.68	-4.17	110.792	0.6228	6	1.76959	119.0382	0.64335	0	0.6434	171.21	0.6264	-4E-04	6	0.5211	1.296	1.6821	134.9142
11.4	133.9	0.87	-0.68	-4.17	133.892	0.6498	6	1.71389	121.1962	0.64941	0	0.6494	205.17	0.653	-4E-04	6	0.5028	1.2782	1.6331	160.9543
11.5	147.6	1.04	-0.67	-4.19	147.592	0.7047	6	1.70218	122.7398	0.65555	0	0.6556	224.14	0.7078	-3E-04	6	0.5001	1.2705	1.6253	176.4334
11.6	159	1.19	-0.61	-4.21	158.993	0.7485	6	1.69395	123.9071	0.66174	0	0.6617	239.26	0.7516	-3E-04	6	0.4985	1.2636	1.6203	189.0816
11.7	168.4	1.32	-0.6	-4.23	168.393	0.7839	6	1.68817	124.8058	0.66798	0	0.668	251.09	0.787	-3E-04	6	0.4977	1.2572	1.6173	199.2879
11.8	173.2	1.52	-0.6	-4.23	173.193	0.8776	6	1.71197	125.9066	0.67428	0	0.6743	255.86	0.8811	-3E-04	6	0.5077	1.2571	1.6429	204.9565
11.9	175.3	1.63	-0.6	-4.25	175.293	0.9299	6	1.72533	126.4473	0.6806	0	0.6806	256.56	0.9335	-3E-04	6	0.5137	1.2544	1.6577	207.0085
12	170.5	1.67	-0.64	-4.25	170.492	0.9795	6	1.74965	126.5569	0.68693	0	0.6869	247.2	0.9835	-3E-04	6	0.5235	1.2538	1.6826	201.2036
12.1	160.1	1.73	-0.64	-4.26	160.092	1.0806	6	1.79895	126.6617	0.69326	0	0.6933	229.93	1.0853	-3E-04	6	0.5424	1.2578	1.7316	189.4806
12.2	147.9	1.7	-0.6	-4.27	147.893	1.1495	6	1.84234	126.3404	0.69958	0	0.6996	210.4	1.155	-3E-04	6	0.5591	1.2603	1.7744	175.314
12.3	135.9	1.58	-0.66	-4.3	135.892	1.1627	6	1.87234	125.5984	0.70586	0	0.7059	191.52	1.1688	-4E-04	6	0.5706	1.2599	1.8039	160.9612
12.4	123.3	1.46	-0.68	-4.31	123.292	1.1842	6	1.90867	124.7831	0.7121	0	0.7121	172.14	1.1911	-4E-04	6	0.5845	1.2605	1.8396	146.0205
12.5	112.3	1.32	-0.68	-4.31	112.292	1.1755	6	1.93658	123.8175	0.71829	0	0.7183	155.33	1.1831	-4E-04	6	0.5952	1.2593	1.867	132.7913
12.6	106.9	1.22	-0.64	-4.32	106.892	1.1413	6	1.94415	123.1209	0.72444	0	0.7244	146.55	1.1491	-4E-04	6	0.5986	1.2546	1.8752	125.8794
12.7	104.4	1.21	-0.6	-4.33	104.393	1.1591	6	1.9563	123.003	0.73059	0	0.7306	141.89	1.1673	-4E-04	6	0.604	1.2507	1.8884	122.5295
12.8	105.5	1.2	-0.6	-4.33	105.493	1.1375	6	1.94752	122.9678	0.73674	0	0.7367	142.19	1.1455	-4E-04	6	0.6016	1.2433	1.8814	123.0912
12.9	112.3	1.22	-0.6	-4.34	112.293	1.0865	6	1.91395	123.2411	0.7429	0	0.7429	150.15	1.0937	-4E-04	6	0.5902	1.2321	1.8506	129.8923
13	119	1.28	-0.6	-4.36	118.993	1.0757	6	1.89217	123.7338	0.74909	0	0.7491	157.85	1.0825	-4E-04	6	0.5831	1.2231	1.8314	136.6825
13.1	126.2	1.35	-0.6	-4.37	126.193	1.0698	6	1.87152	124.2666	0.7553	0	0.7553	166.08	1.0762	-3E-04	6	0.5765	1.2145	1.8132	143.98
13.2	134.1	1.4	-0.6	-4.37	134.093	1.0441	6	1.84485	124.6808	0.76154	0	0.7615	175.08	1.05	-3E-04	6	0.5676	1.2053	1.7891	151.8719
13.3	141.8	1.47	-0.6	-4.38	141.793	1.0367	6	1.82488	125.174	0.7678	0	0.7678	183.67	1.0424	-3E-04	6	0.5612	1.1972	1.7715	159.5625
13.4	150.8	1.57	-0.54	-4.38	150.793	1.0412	6	1.80657	125.8057	0.77409	0	0.7741	193.8	1.0465	-3E-04	6	0.5554	1.1896	1.7556	168.6596
13.5	155.9	1.65	-0.53	-4.39	155.894	1.0584	6	1.801	126.2505	0.7804	0	0.7804	198.76	1.0637	-3E-04	6	0.5543	1.1838	1.7519	173.5424
13.6	157.8	1.69	-0.53	-4.4	157.794	1.071	6	1.80076	126.4553	0.78672	0	0.7867	199.57	1.0764	-2E-04	6	0.5551	1.1788	1.7531	174.9175
13.7	161.6	1.7	-0.53	-4.39	161.594	1.052	6	1.78793	126.5565	0.79305	0	0.7931	202.76	1.0572	-2E-04	6	0.5512	1.1723	1.742	178.1464
13.8	166.3	1.7	-0.53	-4.4	166.294	1.0223	6	1.77032	126.6264	0.79938	0	0.7994	207.03	1.0272	-2E-04	6	0.5454	1.1653	1.7261	182.2512
13.9	169.2	1.72	-0.53	-4.41	169.194	1.0166	6	1.76324	126.7541	0.80572	0	0.8057	208.99	1.0215	-2E-04	6	0.5436	1.1597	1.7206	184.5495

14	170.7	1.74	-0.53	-4.42	170.694	1.0194	6	1.76132	126.8603	0.81206	0	0.8121	209.2	1.0242	-2E-04	6	0.5437	1.1548	1.72	185.3991
14.1	171.6	1.74	-0.53	-4.42	171.594	1.014	6	1.75809	126.8731	0.81841	0	0.8184	208.67	1.0189	-2E-04	6	0.5433	1.1498	1.7181	185.5673
14.2	173.5	1.71	-0.53	-4.42	173.494	0.9856	6	1.74607	126.7727	0.82474	0	0.8247	209.36	0.9903	-2E-04	6	0.5395	1.1439	1.7075	186.6662
14.3	176.3	1.68	-0.53	-4.44	176.294	0.953	6	1.7309	126.6822	0.83108	0	0.8311	211.13	0.9575	-2E-04	6	0.5346	1.1378	1.6938	188.6808
14.4	177.2	1.65	-0.53	-4.42	177.194	0.9312	6	1.72236	126.5628	0.83741	0	0.8374	210.6	0.9356	-2E-04	6	0.5321	1.1326	1.6866	188.7657
14.5	176.5	1.6	-0.49	-4.44	176.494	0.9066	6	1.71559	126.328	0.84372	0	0.8437	208.18	0.9109	-2E-04	6	0.5303	1.1276	1.681	187.1824
14.6	175.9	1.58	-0.38	-4.44	175.895	0.8983	6	1.71393	126.2277	0.85003	0	0.85	205.93	0.9026	-2E-04	6	0.5304	1.1232	1.6805	185.8065
14.7	174.6	1.59	-0.44	-4.46	174.595	0.9107	6	1.72037	126.2557	0.85635	0	0.8564	202.88	0.9152	-2E-04	6	0.5336	1.1195	1.688	183.8199
14.8	174	1.65	-0.41	-4.46	173.995	0.9483	6	1.73355	126.5184	0.86267	0	0.8627	200.69	0.953	-2E-04	6	0.5393	1.1164	1.7023	182.675
14.9	172	1.69	-0.38	-4.46	171.995	0.9826	6	1.74784	126.6655	0.86901	0	0.869	196.92	0.9876	-2E-04	6	0.5455	1.1134	1.7177	180.0653
15	167.1	1.67	-0.38	-4.46	167.095	0.9994	6	1.76201	126.5079	0.87533	0	0.8753	189.89	1.0047	-2E-04	6	0.5515	1.1103	1.7327	174.4119
15.1	161.8	1.62	-0.38	-4.48	161.795	1.0013	6	1.77269	126.2068	0.88164	0	0.8816	182.52	1.0068	-2E-04	6	0.5565	1.1069	1.7443	168.3277
15.2	157.6	1.59	-0.38	-4.48	157.595	1.0089	6	1.78325	126.0059	0.88794	0	0.8879	176.48	1.0146	-2E-04	6	0.5612	1.1034	1.7559	163.4136
15.3	155.3	1.57	-0.39	-4.48	155.295	1.011	6	1.78851	125.8774	0.89424	0	0.8942	172.66	1.0168	-2E-04	6	0.5639	1.0995	1.7623	160.4446
15.4	155.1	1.58	-0.44	-4.5	155.095	1.0187	6	1.79119	125.9207	0.90053	0	0.9005	171.23	1.0247	-2E-04	6	0.5656	1.0955	1.7661	159.6424
15.5	151.9	1.59	-0.45	-4.5	151.894	1.0468	6	1.80587	125.916	0.90683	0	0.9068	166.5	1.0531	-2E-04	6	0.5719	1.0922	1.7819	155.8588
15.6	144.2	1.57	-0.45	-4.52	144.194	1.0888	6	1.83404	125.6965	0.91311	0	0.9131	156.92	1.0958	-2E-04	6	0.5833	1.0898	1.8109	147.5675
15.7	136.2	1.51	-0.38	-4.52	136.195	1.1087	6	1.85751	125.2722	0.91938	0	0.9194	147.14	1.1162	-2E-04	6	0.5928	1.0869	1.8353	138.9552
15.8	131.8	1.44	-0.43	-4.52	131.795	1.0926	6	1.86369	124.8448	0.92562	0	0.9256	141.39	1.1003	-2E-04	6	0.5959	1.083	1.8426	133.9452
15.9	129.8	1.38	-0.45	-4.54	129.794	1.0632	6	1.86064	124.4961	0.93184	0	0.9318	138.29	1.0709	-3E-04	6	0.5955	1.0786	1.8408	131.3589
16	127.9	1.36	-0.39	-4.54	127.895	1.0634	6	1.86544	124.3533	0.93806	0	0.9381	135.34	1.0712	-2E-04	6	0.5981	1.0747	1.8468	128.945
16.1	126.5	1.35	-0.45	-4.54	126.494	1.0672	6	1.87005	124.2725	0.94427	0	0.9443	132.96	1.0753	-3E-04	6	0.6006	1.0708	1.8527	127.0498
16.2	125	1.33	-0.4	-4.55	124.995	1.064	6	1.87304	124.1342	0.95048	0	0.9505	130.51	1.0722	-2E-04	6	0.6025	1.0668	1.8569	125.0588
16.3	124.1	1.32	-0.38	-4.56	124.095	1.0637	6	1.87529	124.0613	0.95668	0	0.9567	128.71	1.072	-2E-04	6	0.6041	1.0628	1.8604	123.68
16.4	125.4	1.31	-0.42	-4.56	125.395	1.0447	6	1.86671	124.0311	0.96289	0	0.9629	129.23	1.0528	-2E-04	6	0.6016	1.0584	1.8531	124.4629
16.5	126.2	1.33	-0.45	-4.56	126.194	1.0539	6	1.86719	124.1575	0.96909	0	0.9691	129.22	1.0621	-3E-04	6	0.6025	1.0544	1.8548	124.7836
16.6	121.3	1.45	-0.41	-4.57	121.295	1.1954	6	1.91667	124.6929	0.97533	0	0.9753	123.36	1.2051	-3E-04	6	0.6221	1.052	1.9055	119.6235
16.7	110.7	1.55	-0.38	-4.57	110.695	1.4002	6	1.99253	124.9579	0.98158	0	0.9816	111.77	1.4128	-3E-04	6	0.6518	1.0502	1.9826	108.8887
16.8	93.6	1.58	-0.38	-4.56	93.5954	1.6881	5	2.10127	124.6889	0.98781	0	0.9878	93.75	1.7061	-3E-04	5	0.6941	1.0489	2.0928	91.79909
16.9	75.2	1.59	-0.38	-4.56	75.1954	2.1145	5	2.23756	124.2012	0.99402	0	0.994	74.648	2.1428	-4E-04	5	0.747	1.0478	2.2311	73.47715
17	62	1.59	-0.38	-4.56	61.9954	2.5647	5	2.35609	123.7304	1.00021	0	1.0002	60.983	2.6068	-5E-04	5	0.7934	1.0457	2.3521	60.27768
17.1	60.6	1.56	-0.3	-4.56	60.5963	2.5744	5	2.36439	123.5353	1.00638	0	1.0064	59.212	2.6179	-4E-04	5	0.7975	1.0408	2.3621	58.61413
17.2	58.8	1.38	-0.3	-4.58	58.7963	2.3471	5	2.34649	122.5647	1.01251	0	1.0125	57.07	2.3882	-4E-04	5	0.7917	1.0355	2.346	56.54849
17.3	58.3	1.2	-0.31	-4.58	58.2962	2.0585	5	2.31102	121.5212	1.01859	0	1.0186	56.232	2.0951	-4E-04	5	0.7791	1.0301	2.3122	55.76148
17.4	61.5	1.17	-0.45	-4.61	61.4945	1.9026	5	2.271	121.4663	1.02466	0	1.0247	59.014	1.9349	-5E-04	5	0.7646	1.0249	2.2733	58.56981
17.5	67.7	1.15	-0.63	-4.62	67.6923	1.6989	5	2.20722	121.5743	1.03074	0	1.0307	64.673	1.7251	-7E-04	5	0.7408	1.0196	2.2103	64.2357
17.6	77.6	1.15	-0.89	-4.64	77.5891	1.4822	5	2.12362	121.9071	1.03684	0	1.0368	73.833	1.5022	-8E-04	5	0.7094	1.0145	2.1271	73.39818
17.7	85.1	1.17	-0.64	-4.66	85.0922	1.375	5	2.07197	122.2584	1.04295	0	1.043	80.588	1.392	-6E-04	5	0.6903	1.01	2.0763	80.22876
17.8	91.8	1.19	-0.53	-4.66	91.7935	1.2964	6	2.03036	122.5673	1.04908	0	1.0491	86.499	1.3114	-4E-04	6	0.6751	1.0058	2.0355	86.25874
17.9	96.1	1.16	-0.53	-4.67	96.0935	1.2072	6	1.99505	122.4922	1.0552	0	1.0552	90.066	1.2206	-4E-04	6	0.6623	1.0018	2.0012	89.98288
18	97.6	1.1	-0.53	-4.68	97.5935	1.1271	6	1.9706	122.1413	1.06131	0	1.0613	90.956	1.1395	-4E-04	6	0.6538	0.998	1.978	91.05099
18.1	89.7	1.02	-0.58	-4.69	89.6929	1.1372	6	2.00121	121.3829	1.06738	0	1.0674	83.031	1.1509	-5E-04	6	0.6664	0.9942	2.0105	83.27301
18.2	80.5	0.94	-0.54	-4.7	80.4934	1.1678	6	2.04487	120.5214	1.0734	0	1.0734	73.989	1.1836	-5E-04	5	0.6842	0.9902	2.0564	74.32501
18.3	69.7	0.85	-0.53	-4.7	69.6935	1.2196	5	2.1055	119.4336	1.07938	0	1.0794	63.568	1.2388	-6E-04	5	0.7087	0.986	2.1198	63.93798
18.4	60	0.78	-0.59	-4.7	59.9928	1.3002	5	2.17386	118.4392	1.0853	0	1.0853	54.278	1.3241	-7E-04	5	0.7362	0.9815	2.1914	54.64221
18.5	55.1	0.77	-0.6	-4.72	55.0927	1.3977	5	2.22235	118.1369	1.0912	0	1.0912	49.488	1.4259	-8E-04	5	0.756	0.977	2.2425	49.86128
18.6	49.3	0.88	-0.6	-4.72	49.2927	1.7853	5	2.32641	118.8427	1.09715	0	1.0972	43.928	1.8259	-9E-04	5	0.7972	0.9715	2.3499	44.25207
18.7	44.4	1.02	-0.64	-4.72	44.3922	2.2977	5	2.43161	119.6675	1.10313	0	1.1031	39.242	2.3563	-0.001	5	0.8389	0.9657	2.4586	39.50641
18.8	39.8	1.12	-0.71	-4.72	39.7913	2.8147	4	2.52528	120.085	1.10913	0	1.1091	34.876	2.8954	-0.001	4	0.8763	0.9596	2.5561	35.07982
18.9	35.6	1.16	-0.68	-4.72	35.5917	3.2592	4	2.60377	120.0697	1.11514	0	1.1151	30.917	3.3646	-0.001	4	0.9081	0.9535	2.6388	31.06641
19	32.6	1.16	-0.54	-4.72	32.5934	3.559	4	2.65773	119.8551	1.12113	0	1.1211	28.072	3.6858	-0.001	4	0.9304	0.9476	2.6967	28.18514
19.1	31.1	1.14	-0.45	-4.72	31.0945	3.6662	4	2.68157	119.613	1.12711	0	1.1271	26.588	3.8041	-0.001	4	0.9409	0.9423	2.7235	26.68718
19.2	32.1	1.1	-0.29	-4.72	32.0965	3.4272	4	2.65184	119.429	1.13308	0	1.1331	27.327	3.5526	-7E-04	4	0.9302	0.9383	2.6947	27.45754
19.3	34.6	1.05	-0.62	-4.72	34.5924	3.0354	4	2.59262	119.2713	1.13905	0	1.1391	29.37	3.1387	-0.001	4	0.9078	0.9353	2.6351	29.56988
19.4	36.8	1.07	-0.76	-4.72	36.7907	2.9083	4	2.56025	119.5596	1.14502	0	1.145	31.131	3.0018	-0.002	4	0.8958	0.9317	2.6028	31.38808
19.5	39.6	1.1	-0.85	-4.72	39.5896	2.7785	4	2.52323	119.9408	1.15102	0	1.151	33.395	2.8617	-0.002	4	0.8819	0.9285	2.5656	33.72878
19.6	42.8	1.06	-0.9	-4.71	42.789	2.4773	5	2.46504	119.8593	1.15701	0	1.157	35.982	2.5461	-0.002	4	0.8599	0.926	2.5071	36.43552
19.7	44.4	0.99	-0.86	-4.7	44.3895	2.2303	5	2.42324	119.4489	1.16299	0	1.163	37.169	2.2903	-0.001	5	0.8445	0.9233	2.466	37.7187
19.8	46.8	0.89	-0.78	-4.7	46.7905	1.9021	5	2.36136	118.7983	1.16893	0	1.1689	39.029	1.9508	-0.001	5	0.8213	0.9215	2.4044	39.72934
19.9	49.4	0.79	-0.71	-4.69	49.3913	1.5995	5	2.29584	118.0581	1.17483	0	1.1748	41.041	1.6384	-0.001	5	0.7967	0.92	2.339	41.92362
20	51.9	0.74	-0.68	-4.7	51.8917	1.4261	5	2.24825	117.7002	1.18071	0	1.1807	42.949	1.4593	-1E-03	5	0.779	0.9181	2.2917	44.00283
20.1	54	0.73	-0.68	-4.69	53.9917	1.3521	5	2.22048	117.6974	1.1866	0	1.1866	44.501	1.3824	-9E-04	5	0.7689	0.9157	2.2645	45.69563
20.2	55.5	0.78	-0.68	-4.68	55.4917	1.4056	5	2.2214	118.249	1.19251	0	1.1925	45.533	1.4365	-9E-04	5	0.7699	0.9121	2.2663	46.80397
20.3	53.8	0.88	-0.68	-4.68	53.7917	1.6359	5	2.27304	119.0557	1.19846	0	1.1985	43.884	1.6732	-9E-04	5	0.7907	0.9062	2.3201	45.04316
20.4	50.1	1.02	-0.68	-4.68	50.0917	2.0363	5	2.35765	119.9621	1.20446	0.00312	1.2013	40.694	2.0864	-0.001	5	0.824	0.9007	2.4073	41.61335
20.5	44.2	1.15	-0.68	-4.68	44.1917	2.6023	4	2.46858	120.5342	1.21049	0.00624	1.2043	35.691	2.6756	-0.001	4	0.868	0.8938	2.5223	36.30626
20.6	38.5	1.24	-0.74	-4.68	38.4909	3.2215	4	2.5751	120.7487	1.21653	0.00936	1.2072	30.878	3.3267	-0.002	4	0.9105	0.8869	2.6337	31.24402
20.7	35.4	1.31	-0.66	-4.69	35.3919	3.7014	4	2.64267	120.9458	1.22257	0.01248	1.2101	28.237	3.8339	-0.002	4	0.9377	0.8817	2.7047	28.47404
20.8	29.8	1.18	-0.54	-4.68	29.7934	3.9606	4	2.71778	119.7611	1.22856	0.0156	1.213	23.55	4.131	-0.002	3	0.969	0.876	2.7866	23.64952
20.9	23.6	0.98	-0.57	-4.69	23.593	4.1538	3	2.80743	117.8331	1.23445	0.01872	1.2157	18.391	4.3831	-0.003	3	1	0.8704	2.8862	18.39101
21	19.2	0.76	-0.55	-4.7	19.1933	3.9597	3	2.86254	115.4695	1.24023	0.02184	1.2184	14.735	4.2333	-0.003	3	1	0.8685	2.9509	14.73509

21.1	19	0.6	-0.51	-4.7	18.9938	3.1589	4	2.80484	113.7143	1.24591	0.02496	1.221	14.536	3.3807	-0.003	3	1	0.8666	2.8955	14.53606
21.2	19.2	0.44	-0.39	-4.7	19.1952	2.2922	4	2.71795	111.4707	1.25149	0.02808	1.2234	14.667	2.4521	-0.003	4	0.9781	0.8676	2.8091	14.71375
21.3	18.6	0.34	-0.28	-4.72	18.5966	1.8283	4	2.67348	109.5069	1.25696	0.0312	1.2258	14.146	1.9608	-0.003	4	0.9621	0.8681	2.7669	14.22501
21.4	18.7	0.37	-0.16	-4.72	18.698	1.9788	4	2.69073	110.1388	1.26247	0.03432	1.2282	14.197	2.1221	-0.003	4	0.9691	0.8655	2.7849	14.26219
21.5	19.1	0.39	0	-4.72	19.1	2.0419	4	2.69083	110.5759	1.268	0.03744	1.2306	14.491	2.1871	-0.002	4	0.9692	0.8639	2.7848	14.55864
21.6	18	0.39	0.07	-4.72	18.0009	2.1666	4	2.72665	110.4313	1.27352	0.04056	1.233	13.567	2.3315	-0.002	4	0.9845	0.8602	2.8249	13.59894
21.7	20.3	0.41	0.23	-4.73	20.3028	2.0194	4	2.6663	111.0908	1.27907	0.04368	1.2354	15.399	2.1552	-0.001	4	0.9595	0.8619	2.7588	15.49589
21.8	21.4	0.43	0.34	-4.74	21.4042	2.009	4	2.64622	111.5681	1.28465	0.0468	1.2379	16.254	2.1372	-0.001	4	0.9513	0.8614	2.7369	16.37834
21.9	21.7	0.45	0.38	-4.74	21.7047	2.0733	4	2.64919	111.9348	1.29025	0.04992	1.2403	16.459	2.2043	-0.001	4	0.9526	0.8595	2.74	16.58333
22	22.2	0.48	0.38	-4.74	22.2047	2.1617	4	2.65173	112.4625	1.29587	0.05304	1.2428	16.824	2.2957	-0.001	4	0.9536	0.8578	2.7424	16.94958
22.1	22.9	0.49	0.39	-4.74	22.9048	2.1393	4	2.63816	112.6891	1.30151	0.05616	1.2454	17.347	2.2682	-0.001	4	0.9483	0.8568	2.7282	17.49395
22.2	23.7	0.52	0.45	-4.75	23.7055	2.1936	4	2.63254	113.2077	1.30717	0.05928	1.2479	17.949	2.3216	-0.001	4	0.946	0.8555	2.7218	18.10966
22.3	23.4	0.6	0.45	-4.75	23.4055	2.5635	4	2.67762	114.2237	1.31288	0.0624	1.2505	17.667	2.7158	-0.001	4	0.9639	0.8513	2.7685	17.77416
22.4	22.7	0.69	0.45	-4.74	22.7055	3.0389	4	2.7335	115.1723	1.31864	0.06552	1.2531	17.067	3.2263	-0.002	4	0.9863	0.8463	2.827	17.10653
22.5	33.1	0.78	0.45	-4.75	33.1055	2.3561	4	2.53658	116.9891	1.32449	0.06864	1.2559	25.306	2.4543	-0.001	4	0.9054	0.8563	2.6143	25.71986
22.6	64.9	0.88	0.56	-4.75	64.9069	1.3558	5	2.15832	119.5138	1.33046	0.07176	1.2587	50.51	1.3842	-5E-04	5	0.7537	0.8774	2.2155	52.71583
22.7	102.4	0.95	0.33	-4.75	102.404	0.9277	6	1.90074	121.186	1.33652	0.07488	1.2616	80.108	0.94	-5E-04	6	0.652	0.8916	1.9479	85.16657
22.8	115.8	1	-0.39	-4.75	115.795	0.8636	6	1.83966	121.861	1.34261	0.078	1.2646	90.504	0.8737	-9E-04	6	0.6281	0.8941	1.8848	96.70851
22.9	120.3	1.04	-0.6	-4.75	120.293	0.8646	6	1.82713	122.241	1.34873	0.08112	1.2676	93.834	0.8744	-0.001	6	0.6234	0.8935	1.8721	100.4397
23	126.9	1.05	-0.6	-4.75	126.893	0.8275	6	1.79712	122.4413	1.35485	0.08424	1.2706	98.801	0.8364	-0.001	6	0.6119	0.8941	1.8416	106.0743
23.1	136.3	1.24	-0.59	-4.77	136.293	0.9098	6	1.79991	123.8325	1.36104	0.08736	1.2737	105.94	0.919	-1E-03	6	0.6128	0.8926	1.8436	113.824
23.2	147.4	1.48	-0.53	-4.77	147.394	1.0041	6	1.8031	125.3181	1.36731	0.09048	1.2768	114.37	1.0135	-9E-04	6	0.6139	0.8911	1.846	122.9729
23.3	150.4	1.73	-0.59	-4.79	150.393	1.1503	6	1.83733	126.5093	1.37363	0.0936	1.28	116.42	1.1609	-9E-04	6	0.6272	0.8874	1.8805	124.9835
23.4	152.6	1.6	-0.6	-4.79	152.593	1.0485	6	1.80493	125.9731	1.37993	0.09672	1.2832	117.84	1.0581	-9E-04	6	0.615	0.8881	1.8483	126.9224
23.5	164.5	1.73	-0.59	-4.82	164.493	1.0517	6	1.7823	126.7278	1.38627	0.09984	1.2864	126.79	1.0607	-9E-04	6	0.6062	0.8883	1.8247	136.9303
23.6	175.4	1.87	-0.49	-4.83	175.394	1.0662	6	1.7666	127.4537	1.39264	0.10296	1.2897	134.92	1.0747	-8E-04	6	0.6002	0.888	1.8084	146.0288
23.7	196.8	2.01	-0.41	-4.86	196.795	1.0214	6	1.71818	128.2628	1.39905	0.10608	1.293	151.12	1.0287	-7E-04	6	0.5812	0.89	1.7583	164.3553
23.8	224	2.14	-0.34	-4.87	223.996	0.9554	6	1.65826	129.0371	1.4055	0.1092	1.2963	171.71	0.9614	-6E-04	6	0.5576	0.893	1.6964	187.849
23.9	243	2.28	-0.3	-4.88	242.996	0.9383	6	1.62831	129.6994	1.41199	0.11232	1.2997	185.88	0.9438	-6E-04	6	0.546	0.8938	1.6655	204.0715
24	257.5	2.38	-0.3	-4.89	257.496	0.9243	6	1.60645	130.1548	1.4185	0.11544	1.3031	196.52	0.9294	-5E-04	6	0.5376	0.8941	1.643	216.3851
24.1	265.1	2.44	-0.3	-4.91	265.096	0.9204	6	1.5966	130.4079	1.42502	0.11856	1.3065	201.82	0.9254	-5E-04	6	0.534	0.8935	1.6331	222.6593
24.2	269.8	2.48	-0.24	-4.91	269.797	0.9192	6	1.59106	130.5698	1.43155	0.12168	1.3099	204.88	0.9241	-5E-04	6	0.5321	0.8927	1.6277	226.4
24.3	272	2.51	-0.23	-4.91	271.997	0.9228	6	1.58997	130.6776	1.43808	0.1248	1.3133	206.02	0.9277	-5E-04	6	0.5319	0.8914	1.6269	227.9415
24.4	270	2.51	-0.23	-4.92	269.997	0.9296	6	1.5945	130.6596	1.44461	0.12792	1.3167	203.96	0.9346	-5E-04	6	0.534	0.8898	1.632	225.8346
24.5	263.3	2.45	-0.23	-4.93	263.297	0.9305	6	1.6021	130.4213	1.45113	0.13104	1.3201	198.35	0.9357	-6E-04	6	0.5374	0.8879	1.6406	219.7262
24.6	251.7	2.4	-0.23	-4.95	251.697	0.9535	6	1.62311	130.1605	1.45764	0.13416	1.3235	189.08	0.9591	-6E-04	6	0.5461	0.885	1.6629	209.291
24.7	238.3	2.39	-0.29	-4.95	238.296	1.003	6	1.65534	129.9965	1.46414	0.13728	1.3269	178.49	1.0092	-7E-04	6	0.5592	0.8811	1.6967	197.219
24.8	223.8	2.39	-0.25	-4.95	223.797	1.0679	6	1.69385	129.8434	1.47063	0.1404	1.3302	167.13	1.075	-7E-04	6	0.5747	0.8768	1.737	184.2213
24.9	211.8	2.35	-0.19	-4.96	211.798	1.1096	6	1.72228	129.5855	1.47711	0.14352	1.3336	157.71	1.1173	-8E-04	6	0.5863	0.8731	1.7671	173.5538
25	204.5	2.34	-0.1	-4.96	204.499	1.1443	6	1.74244	129.4687	1.48359	0.14664	1.337	151.85	1.1526	-8E-04	6	0.5946	0.8702	1.7885	166.9538
25.1	202.4	2.34	-0.08	-4.96	202.399	1.1561	6	1.74878	129.4436	1.49006	0.14976	1.3403	149.9	1.1647	-8E-04	6	0.5975	0.8683	1.7956	164.8649
25.2	203.9	2.35	-0.45	-4.98	203.894	1.1526	6	1.74562	129.4927	1.49653	0.15288	1.3437	150.63	1.1611	-9E-04	6	0.5965	0.8672	1.7927	165.8752
25.3	208.8	2.38	-0.96	-4.99	208.788	1.1399	6	1.73511	129.6434	1.50302	0.156	1.347	153.88	1.1482	-0.001	6	0.5927	0.8667	1.7822	169.7853
25.4	213.1	2.4	-1.26	-4.99	213.085	1.1263	6	1.72529	129.7543	1.5095	0.15912	1.3504	156.68	1.1344	-0.001	6	0.5891	0.8662	1.7724	173.1934
25.5	213.6	2.4	-1.52	-5.01	213.581	1.1237	6	1.72386	129.76	1.51599	0.16224	1.3538	156.65	1.1317	-0.001	6	0.5889	0.8649	1.7714	173.3496
25.6	212	2.24	-2.45	-5.01	211.97	1.0568	6	1.70654	129.2367	1.52245	0.16536	1.3571	155.07	1.0644	-0.002	6	0.5827	0.865	1.7547	172.0438
25.7	213.4	2.23	-3.16	-5.02	213.361	1.0452	6	1.70111	129.2199	1.52891	0.16848	1.3604	155.71	1.0527	-0.002	6	0.5809	0.8642	1.7496	173.0057
25.8	217.8	2.17	-3.89	-5.03	217.752	0.9965	6	1.67999	129.07	1.53537	0.1716	1.3638	158.54	1.0036	-0.002	6	0.573	0.8647	1.7284	176.6897
25.9	215.8	2.15	-4.07	-5.03	215.75	0.9965	6	1.68275	128.9798	1.54182	0.17472	1.3671	156.69	1.0037	-0.002	6	0.5745	0.8631	1.7319	174.7382
26	226	2.15	-4.07	-5.03	225.95	0.9515	6	1.65439	129.0924	1.54827	0.17784	1.3704	163.75	0.9581	-0.002	6	0.5636	0.8644	1.7029	183.3129
26.1	233.9	2.14	-4.28	-5.05	233.848	0.9151	6	1.63183	129.1421	1.55473	0.18096	1.3738	169.09	0.9213	-0.002	6	0.555	0.8651	1.68	189.9238
26.2	238.2	2.13	-4.31	-5.05	238.147	0.8944	6	1.61917	129.1523	1.56119	0.18408	1.3771	171.8	0.9003	-0.002	6	0.5503	0.865	1.6673	193.4109
26.3	238.7	1.92	-4.42	-5.05	238.646	0.8045	6	1.58557	128.3979	1.56761	0.1872	1.3804	171.75	0.8099	-0.002	6	0.5378	0.8668	1.634	194.2051
26.4	236.9	1.89	-4.59	-5.05	236.844	0.798	6	1.58538	128.2642	1.57402	0.19032	1.3837	170.03	0.8033	-0.002	6	0.5381	0.8656	1.6344	192.4606
26.5	233.4	1.99	-4.85	-5.05	233.341	0.8528	6	1.61046	128.6051	1.58045	0.19344	1.387	167.09	0.8587	-0.002	6	0.5482	0.8621	1.6604	188.8315
26.6	207.5	2	-4.95	-5.07	207.439	0.9641	6	1.68428	128.3548	1.58687	0.19656	1.3903	148.06	0.9716	-0.003	6	0.5777	0.8541	1.7376	166.157
26.7	206.6	1.94	-4.75	-5.11	206.542	0.9393	6	1.67751	128.1213	1.59327	0.19968	1.3936	147.06	0.9466	-0.003	6	0.5755	0.8534	1.7314	165.3027
26.8	199	1.91	-4.87	-5.11	198.94	0.9601	6	1.69573	127.9158	1.59967	0.2028	1.3969	141.27	0.9679	-0.003	6	0.5832	0.8505	1.751	158.6146
26.9	192.7	1.9	-5	-5.11	192.639	0.9863	6	1.71389	127.7989	1.60606	0.20592	1.4001	136.44	0.9946	-0.003	6	0.5907	0.8475	1.7705	153.0103
27	190.4	1.83	-5.03	-5.12	190.338	0.9615	6	1.70975	127.495	1.61243	0.20904	1.4034	134.48	0.9697	-0.003	6	0.5896	0.8466	1.7671	151.0039
27.1	191.7	1.79	-5.03	-5.11	191.638	0.9341	6	1.69884	127.3499	1.6188	0.21216	1.4066	135.09	0.942	-0.003	6	0.5857	0.8464	1.7565	152.0007
27.2	200.4	1.78	-5.18	-5.11	200.337	0.8885	6	1.66987	127.4171	1.62517	0.21528	1.4099	140.94	0.8958	-0.003	6	0.5745	0.848	1.7268	159.248
27.3	210.3	1.6	-6.91	-5.11	210.215	0.7611	6	1.60825	126.7545	1.63151	0.2184	1.4131	147.61	0.7671	-0.003	6	0.5508	0.8527	1.6641	168.0898
27.4	215.3	1.3	-8.84	-5.11	215.192	0.6041	6	1.53356	125.2922	1.63777	0.22152	1.4163	150.79	0.6088	-0.004	6	0.5223	0.8588	1.5889	173.3189
27.5	215.6	1.23	-9.79	-5.11	215.48	0.5708	6	1.51715	124.8905	1.64402	0.22464	1.4194	150.65	0.5752	-0.004	6	0.5163	0.8593	1.5728	173.6532
27.6	212.9	1.28	-10.08	-5.11	212.777	0.6016	6	1.53608	125.1513	1.65028	0.22776	1.4225	148.42	0.6063	-0.005	6	0.524	0.8564	1.5926	170.8682
27.7	210.7	1.4	-10.13	-5.11	210.576	0.6648	6	1.56805	125.7816	1.65656	0.23088	1.4257	146.54	0.6701	-0.005	6	0.5367	0.8521	1.6255	168.2484
27.8	207.6	1.56	-10.09	-5.11	207.477	0.7519	6	1.60879	126.5372	1.66289	0.234	1.4289	144.04	0.758	-0.005	6	0.5528	0.847	1.6672	164.7501
27.9	201.8	1.86	-10.06	-5.11	201.677	0.9223	6	1.67919	127.7551	1.66928	0.23712	1.4322	139.65	0.93	-0.005	6	0.5803	0.8389	1.7392	158.5718
28	185.7	2.04	-10.06	-5.12	185.577	1.0993	6	1.75883	128.228	1.67569	0.24024	1.4355	128.11	1.1093	-0.005	6	0.612	0.8297	1.8218	144.2096
28.1	148.8	2.4	-10.06	-5.12	148.677	1.6142	6	1.94616	128.8765	1.68213	0.24336	1.4388	102.17	1.6327	-0.007	5	0.6863	0.8099	2.0165	112.5065

28.2	107.6	2.53	-10.05	-5.12	107.477	2.354	5	2.16214	128.471	1.68856	0.24648	1.4421	73.358	2.3916	-0.009	5	0.7732	0.7871	2.2435	78.69418
28.3	68.9	2.42	-9.93	-5.12	68.7785	3.5185	4	2.42197	127.057	1.69491	0.2496	1.4453	46.415	3.6074	-0.014	4	0.8787	0.7603	2.5202	48.20459
28.4	51.1	2.14	-9.83	-5.12	50.9797	4.1978	4	2.56721	125.4269	1.70118	0.25272	1.4485	34.021	4.3427	-0.019	4	0.9392	0.7446	2.6788	34.67757
28.5	51.8	1.7	-9.67	-5.12	51.6816	3.2894	4	2.48801	123.7761	1.70737	0.25584	1.4515	34.429	3.4018	-0.019	4	0.9091	0.7502	2.5995	35.43221
28.6	63.1	1.68	-9.36	-5.12	62.9854	2.6673	5	2.36295	124.1719	1.71358	0.25896	1.4546	42.122	2.7419	-0.015	4	0.8587	0.7609	2.4664	44.06044
28.7	89.6	1.88	-8.54	-5.13	89.4955	2.1007	5	2.18149	125.8517	1.71987	0.26208	1.4578	60.211	2.1418	-0.01	5	0.7848	0.7776	2.272	64.50964
28.8	146	2.07	-8.28	-5.15	145.899	1.4188	6	1.91111	127.7481	1.72626	0.2652	1.4611	98.677	1.4358	-0.006	6	0.6755	0.8041	1.9855	109.5682
28.9	193.1	2.23	-8.75	-5.18	192.993	1.1555	6	1.76271	128.9752	1.73271	0.26832	1.4644	130.61	1.166	-0.005	6	0.6161	0.8186	1.829	147.9628
29	216.7	2.34	-9.01	-5.19	216.59	1.0804	6	1.70719	129.6089	1.73919	0.27144	1.4678	146.38	1.0891	-0.004	6	0.594	0.8234	1.7705	167.1833
29.1	230.5	2.33	-9.17	-5.21	230.388	1.0113	6	1.66792	129.7281	1.74568	0.27456	1.4711	155.42	1.0191	-0.004	6	0.5786	0.8264	1.7299	178.5731
29.2	236.4	2.49	-9.23	-5.22	236.287	1.0538	6	1.67371	130.2758	1.75219	0.27768	1.4745	159.06	1.0617	-0.004	6	0.5809	0.8247	1.7355	182.7921
29.3	238	2.55	-9.25	-5.24	237.887	1.0719	6	1.67726	130.4664	1.75871	0.2808	1.4779	159.77	1.0799	-0.004	6	0.5825	0.8231	1.7393	183.6876
29.4	239.8	2.3	-9.31	-5.25	239.686	0.9596	6	1.63951	129.7298	1.7652	0.28392	1.4813	160.62	0.9667	-0.004	6	0.5683	0.826	1.7016	185.7227
29.5	239.9	2.42	-9.31	-5.26	239.786	1.0092	6	1.65551	130.103	1.7717	0.28704	1.4847	160.32	1.0168	-0.004	6	0.5748	0.8231	1.7181	185.1493
29.6	238.5	2.49	-9.31	-5.27	238.386	1.0445	6	1.66828	130.2973	1.77822	0.29016	1.4881	159	1.0524	-0.004	6	0.5801	0.8205	1.7316	183.4828
29.7	234.3	2.5	-8.94	-5.3	234.191	1.0675	6	1.68047	130.2834	1.78473	0.29328	1.4915	155.83	1.0757	-0.004	6	0.5853	0.818	1.7448	179.6661
29.8	235.7	2.46	-8.93	-5.3	235.591	1.0442	6	1.67161	130.1799	1.79124	0.2964	1.4948	156.4	1.0522	-0.004	6	0.5821	0.8178	1.7362	180.6983
29.9	234.8	2.46	-9.01	-5.3	234.69	1.0482	6	1.67396	130.1705	1.79775	0.29952	1.4982	155.44	1.0563	-0.004	6	0.5834	0.8164	1.7391	179.6802
30	234.8	2.53	-9.08	-5.3	234.689	1.078	6	1.68301	130.3758	1.80427	0.30264	1.5016	155.09	1.0864	-0.004	6	0.5872	0.8142	1.7487	179.1985
30.1	230.5	2.54	-8.83	-5.32	230.392	1.1025	6	1.69562	130.3596	1.81079	0.30576	1.505	151.88	1.1112	-0.004	6	0.5926	0.8116	1.7623	175.3221
30.2	224.2	2.52	-8.6	-5.34	224.095	1.1245	6	1.71007	130.2342	1.8173	0.30888	1.5084	147.36	1.1337	-0.004	6	0.5988	0.8087	1.7781	169.8878
30.3	210.1	2.51	-8.68	-5.35	209.994	1.1953	6	1.74865	130.0466	1.8238	0.312	1.5118	137.7	1.2058	-0.005	6	0.6146	0.8031	1.8192	157.9966
30.4	190.6	2.44	-8.76	-5.34	190.493	1.2809	6	1.79935	129.6019	1.83028	0.31512	1.5152	124.52	1.2933	-0.005	6	0.6355	0.796	1.8736	141.928
30.5	166.9	2.26	-8.78	-5.36	166.793	1.355	6	1.8565	128.7171	1.83672	0.31824	1.5185	108.63	1.3701	-0.006	6	0.6593	0.7881	1.9357	122.8608
30.6	144.8	2.03	-8.86	-5.36	144.692	1.403	6	1.91014	127.5851	1.8431	0.32136	1.5217	93.872	1.4211	-0.007	6	0.6819	0.7805	1.9947	105.3745
30.7	124.7	1.85	-8.83	-5.39	124.592	1.4849	6	1.97335	126.5409	1.84942	0.32448	1.5249	80.49	1.5072	-0.008	5	0.7084	0.7719	2.0638	89.54227
30.8	105.4	1.65	-8.78	-5.4	105.293	1.5671	5	2.04197	125.2933	1.85569	0.3276	1.5281	67.69	1.5952	-0.009	5	0.7373	0.7626	2.1393	74.55192
30.9	88.1	1.41	-8.78	-5.41	87.9925	1.6024	5	2.10541	123.7054	1.86187	0.33072	1.5312	56.252	1.6371	-0.011	5	0.7645	0.7539	2.2104	61.36595
31	72.3	1.26	-9.24	-5.42	72.1869	1.7455	5	2.19406	122.3995	1.86799	0.33384	1.5342	45.836	1.7918	-0.014	5	0.8024	0.7423	2.3083	49.32758
31.1	66.6	1.2	-9.74	-5.44	66.4808	1.805	5	2.23048	121.8417	1.87409	0.33696	1.5371	42.031	1.8574	-0.016	5	0.818	0.7368	2.3491	44.98641
31.2	57.8	1.2	-9.99	-5.44	57.6777	2.0805	5	2.31756	121.4952	1.88016	0.34008	1.5401	36.23	2.1506	-0.019	5	0.8542	0.7257	2.4437	38.26891
31.3	57.1	1.09	-10.06	-5.46	56.9769	1.9131	5	2.29755	120.7619	1.8862	0.3432	1.543	35.704	1.9786	-0.019	5	0.8471	0.7265	2.4249	37.82322
31.4	65.5	1.09	-10.08	-5.46	65.3766	1.6673	5	2.21332	121.0973	1.89225	0.34632	1.5459	41.065	1.717	-0.017	5	0.8129	0.7348	2.3344	44.08429
31.5	63.3	1.24	-10.21	-5.45	63.175	1.9628	5	2.27121	121.9572	1.89835	0.34944	1.5489	39.561	2.0236	-0.018	5	0.836	0.7272	2.3948	42.11245
31.6	45.2	1.22	-10.39	-5.44	45.0728	2.7067	4	2.47355	121.0147	1.9044	0.35256	1.5518	27.818	2.8261	-0.026	4	0.9202	0.703	2.6158	28.68133
31.7	33	1.11	-10.43	-5.45	32.8723	3.3767	4	2.6398	119.5535	1.91038	0.35568	1.5547	19.915	3.585	-0.036	4	0.9917	0.6828	2.8027	19.97868
31.8	25.2	1.05	-10.43	-5.46	25.0723	4.1879	3	2.78987	118.4862	1.9163	0.3588	1.5575	14.867	4.5345	-0.048	3	1	0.6794	2.9667	14.8674
31.9	19.9	0.93	-10.36	-5.46	19.7732	4.7033	3	2.90076	117.0191	1.92216	0.36192	1.5602	11.441	5.2098	-0.062	3	1	0.6782	3.093	11.44125
32	19.1	0.76	-10.33	-5.46	18.9736	4.0056	3	2.86957	115.4414	1.92793	0.36504	1.5629	10.907	4.4586	-0.065	3	1	0.677	3.0676	10.9065
32.1	17.7	0.6	-10.24	-5.46	17.5747	3.414	3	2.85216	113.5249	1.9336	0.36816	1.5654	9.9915	3.8361	-0.071	3	1	0.6759	3.0589	9.99146
32.2	15.6	0.5	-10.16	-5.44	15.4756	3.2309	3	2.8815	111.8807	1.9392	0.37128	1.5679	8.6334	3.6937	-0.081	3	1	0.6749	3.1009	8.63339
32.3	14.9	0.5	-10.08	-5.45	14.7766	3.3837	3	2.9096	111.7679	1.94479	0.3744	1.5704	8.1711	3.8966	-0.086	3	1	0.6738	3.1338	8.17113
32.4	15.2	0.53	-10	-5.46	15.0776	3.5152	3	2.91262	112.2435	1.9504	0.37752	1.5729	8.346	4.0374	-0.084	3	1	0.6727	3.1352	8.34598
32.5	16.4	0.59	-9.92	-5.46	16.2786	3.6244	3	2.89437	113.2151	1.95606	0.38064	1.5754	9.0913	4.1194	-0.076	3	1	0.6716	3.1102	9.09125
32.6	17.6	0.64	-9.91	-5.46	17.4787	3.6616	3	2.87282	113.9838	1.96176	0.38376	1.578	9.8333	4.1245	-0.071	3	1	0.6705	3.0831	9.83331
32.7	16.9	0.7	-9.82	-5.46	16.7798	4.1717	3	2.92207	114.54	1.96749	0.38688	1.5806	9.3713	4.7258	-0.074	3	1	0.6694	3.1353	9.3713
32.8	17.2	0.74	-9.74	-5.46	17.0808	4.3324	3	2.92646	114.9899	1.97323	0.39	1.5832	9.5422	4.8982	-0.072	3	1	0.6683	3.1385	9.5422
32.9	16.8	0.8	-9.68	-5.46	16.6815	4.7957	3	2.96253	115.5027	1.97901	0.39312	1.5859	9.2708	5.4413	-0.074	3	1	0.6672	3.1764	9.27083
33	19.4	0.83	-9.68	-5.46	19.2815	4.3046	3	2.88418	116.1253	1.98482	0.39624	1.5886	10.888	4.7986	-0.063	3	1	0.6661	3.0877	10.88818
33.1	24.5	0.83	-9.68	-5.46	24.3815	3.4042	4	2.74062	116.6977	1.99065	0.39936	1.5913	14.071	3.7069	-0.049	3	1	0.6649	2.931	14.07088
33.2	30.7	0.99	-9.64	-5.46	30.582	3.2372	4	2.65138	118.5402	1.99658	0.40248	1.5941	17.932	3.4633	-0.038	3	1	0.6638	2.8299	17.93204
33.3	42	1.16	-9.61	-5.46	41.8824	2.7697	4	2.50398	120.4667	2.0026	0.4056	1.597	24.972	2.9087	-0.028	4	0.9398	0.6792	2.6619	25.59802
33.4	54.4	0.79	-9.67	-5.47	54.2816	1.4554	5	2.23825	118.2884	2.00852	0.40872	1.5998	32.675	1.5113	-0.021	5	0.8331	0.7087	2.3805	35.00937
33.5	76.5	1.03	-9.84	-5.49	76.3796	1.3485	5	2.1022	121.0624	2.01457	0.41184	1.6027	46.399	1.3851	-0.015	5	0.7744	0.725	2.2274	50.95569
33.6	97.9	1.18	-9.91	-5.49	97.7787	1.2068	6	1.98926	122.6596	2.0207	0.41496	1.6057	59.635	1.2323	-0.012	5	0.7273	0.7383	2.1034	66.81819
33.7	106.6	1.32	-9.69	-5.54	106.481	1.2397	6	1.96916	123.688	2.02689	0.41808	1.6088	64.927	1.2637	-0.011	5	0.7186	0.74	2.0802	73.05132
33.8	129.3	1.49	-9.58	-5.59	129.183	1.1534	6	1.88602	125.0457	2.03314	0.4212	1.6119	78.88	1.1719	-0.009	6	0.6841	0.7498	1.9893	90.0974
33.9	146.7	1.7	-9.62	-5.61	146.582	1.1598	6	1.8478	126.3187	2.03945	0.42432	1.6151	89.493	1.1761	-0.008	6	0.668	0.7539	1.9465	102.9849
34	147.1	1.91	-9.74	-5.61	146.981	1.2995	6	1.88165	127.1775	2.04581	0.42744	1.6184	89.556	1.3178	-0.008	6	0.6813	0.7486	1.981	102.5458
34.1	149.9	2.11	-9.83	-5.62	149.78	1.4087	6	1.90096	127.9522	2.05221	0.43056	1.6217	91.097	1.4283	-0.008	6	0.6887	0.7452	2.0002	104.0449
34.2	157.4	2.16	-9.87	-5.63	157.279	1.3734	6	1.8783	128.2427	2.05862	0.43368	1.6249	95.524	1.3916	-0.007	6	0.6797	0.7471	1.976	109.5942
34.3	168	2.29	-10.12	-5.65	167.876	1.3641	6	1.8567	128.8294	2.06506	0.4368	1.6283	101.83	1.3811	-0.007	6	0.6708	0.7489	1.9523	117.3571
34.4	168.9	2.77	-10.43	-5.65	168.772	1.6413	6	1.91458	130.2348	2.07158	0.43992	1.6317	102.17	1.6617	-0.007	6	0.6933	0.7406	2.0109	116.6818
34.5	152.1	2.94	-10.43	-5.68	151.972	1.9346	5	1.99829	130.4149	2.0781	0.44304	1.6351	91.675	1.9614	-0.008	5	0.7273	0.7287	2.0996	103.2294
34.6	145.3	2.8	-10.48	-5.69	145.172	1.9288	5	2.01042	129.9462	2.08459	0.44616	1.6384	87.332	1.9569	-0.008	5	0.733	0.7258	2.1142	98.14872
34.7	147.6	2.63	-10.51	-5.7	147.471	1.7834	6	1.9805	129.5262	2.09107	0.44928	1.6418	88.55	1.8091	-0.008	5	0.7216	0.7283	2.084	100.0696
34.8	203.8	2.44	-10.43	-5.71	203.672	1.198	6	1.7583	129.7651	2.09756	0.4524	1.6452	122.53	1.2105	-0.006	6	0.6321	0.7566	1.8485	144.1287
34.9	284.4	2.36	-10.43	-5.74	284.272	0.8302	6	1.54304	130.3344	2.10408	0.45552	1.6486	171.16	0.8364	-0.004	6	0.5453	0.7852	1.6203	209.3961
35	334.3	2.3	-10.36	-5.75	334.173	0.6883	6	1.43556	130.5404	2.1106	0.45864	1.652	201.01	0.6926	-0.004	6	0.5022	0.7995	1.5069	250.9118
35.1	355.9	2.07	-10.28	-5.75	355.774	0.5818	6	1.36372	129.9222	2.1171	0.46176	1.6553	213.65	0.5853	-0.003	6	0.4742	0.8088	1.4327	270.3319
35.2	368.8	1.96	-10.28	-5.75	368.674	0.5316	7	1.32482	129.6096	2.12358	0.46488	1.6587	220.99	0.5347	-0.003	6	0.4591	0.8135	1.3926	281.8252

35.3	377.1	2.01	-10.27	-5.77	376.974	0.5332	7	1.31898	129.8482	2.13007	0.468	1.6621	225.53	0.5362	-0.003	6	0.4568	0.8136	1.3863	288.2242
35.4	387.4	1.96	-10.21	-5.77	387.275	0.5061	7	1.29459	129.7296	2.13656	0.47112	1.6654	231.25	0.5089	-0.003	6	0.4474	0.8163	1.3612	297.1335
35.5	399.3	1.89	-10.21	-5.78	399.175	0.4735	7	1.26478	129.5373	2.14303	0.47424	1.6688	237.92	0.476	-0.003	7	0.4358	0.8199	1.3304	307.6491
35.6	413.5	1.86	-10.16	-5.77	413.376	0.45	7	1.2384	129.5055	2.14951	0.47736	1.6722	245.93	0.4523	-0.003	7	0.4255	0.8231	1.3029	319.8732
35.7	423.5	1.85	-10.13	-5.77	423.376	0.437	7	1.22207	129.5244	2.15599	0.48048	1.6755	251.4	0.4392	-0.003	7	0.4192	0.8247	1.286	328.3169
35.8	427.3	1.84	-9.76	-5.78	427.181	0.4307	7	1.21492	129.5065	2.16246	0.4836	1.6789	253.16	0.4329	-0.003	7	0.4167	0.825	1.2788	331.3942
35.9	428.4	1.75	-9.79	-5.77	428.28	0.4086	7	1.19813	129.1458	2.16892	0.48672	1.6822	253.31	0.4107	-0.003	7	0.4104	0.8267	1.2621	332.9288
36	430.3	1.7	-9.83	-5.77	430.18	0.3952	7	1.18671	128.9445	2.17537	0.48984	1.6855	253.93	0.3972	-0.003	7	0.4063	0.8277	1.2507	334.7859
36.1	434.7	1.76	-9.79	-5.77	434.58	0.405	7	1.19088	129.2232	2.18183	0.49296	1.6889	256.03	0.407	-0.003	7	0.408	0.8263	1.2549	337.6744
36.2	436.7	1.89	-9.76	-5.75	436.581	0.4329	7	1.20976	129.7558	2.18832	0.49608	1.6922	256.7	0.4351	-0.003	7	0.4155	0.8227	1.2741	337.7668
36.3	426.6	2.01	-9.83	-5.75	426.48	0.4713	7	1.24321	130.1491	2.19482	0.4992	1.6956	250.22	0.4737	-0.003	7	0.429	0.8169	1.309	327.5499
36.4	409.8	2.05	-9.69	-5.75	409.681	0.5004	7	1.27405	130.1953	2.20133	0.50232	1.699	239.83	0.5031	-0.003	6	0.4416	0.8113	1.3419	312.4267
36.5	398.9	2.04	-9.79	-5.75	398.78	0.5116	7	1.28908	130.0937	2.20784	0.50544	1.7024	232.95	0.5144	-0.003	6	0.4481	0.8081	1.3583	302.8694
36.6	385	2.02	-9.79	-5.74	384.88	0.5248	7	1.30778	129.9351	2.21433	0.50856	1.7058	224.34	0.5279	-0.003	6	0.456	0.8043	1.3788	290.8819
36.7	375.6	2.07	-9.76	-5.73	375.481	0.5513	7	1.33062	130.0537	2.22084	0.51168	1.7092	218.39	0.5546	-0.003	6	0.4654	0.8	1.403	282.2002
36.8	368.1	2.12	-9.76	-5.73	367.981	0.5761	6	1.35052	130.1791	2.22735	0.5148	1.7126	213.57	0.5796	-0.003	6	0.4736	0.7961	1.4242	275.1793
36.9	360.1	2.06	-9.76	-5.73	359.981	0.5723	6	1.35499	129.9155	2.23384	0.51792	1.7159	208.49	0.5758	-0.003	6	0.476	0.7945	1.4298	268.6035
37	357.3	1.88	-9.7	-5.73	357.181	0.5263	7	1.33142	129.2274	2.2403	0.52104	1.7193	206.45	0.5297	-0.003	6	0.4673	0.7971	1.4067	267.3711
37.1	356.9	1.75	-9.73	-5.73	356.781	0.4905	7	1.31029	128.7004	2.24674	0.52416	1.7226	205.82	0.4936	-0.003	6	0.4595	0.7994	1.3857	267.8423
37.2	358.3	1.84	-9.71	-5.72	358.181	0.5137	7	1.32312	129.0769	2.25319	0.52728	1.7259	206.23	0.517	-0.003	6	0.4647	0.7967	1.3989	267.9785
37.3	362.5	2.16	-9.76	-5.72	362.381	0.5961	6	1.36584	130.2785	2.25971	0.5304	1.7293	208.25	0.5998	-0.003	6	0.4812	0.7895	1.4419	268.6952
37.4	362.7	2.39	-9.76	-5.71	362.581	0.6592	6	1.39784	131.0202	2.26626	0.53352	1.7327	207.95	0.6633	-0.003	6	0.4938	0.7839	1.4746	266.9211
37.5	355.9	2.5	-9.68	-5.71	355.782	0.7027	6	1.42403	131.3033	2.27282	0.53664	1.7362	203.61	0.7072	-0.003	6	0.5044	0.779	1.502	260.2491
37.6	344.4	2.53	-9.64	-5.71	344.282	0.7349	6	1.44806	131.3104	2.27939	0.53976	1.7396	196.6	0.7398	-0.004	6	0.5144	0.7743	1.5279	250.2787
37.7	338.9	2.48	-9.75	-5.69	338.781	0.732	6	1.45144	131.1251	2.28594	0.54288	1.7431	193.05	0.737	-0.004	6	0.5163	0.7728	1.5323	245.7725
37.8	336	2.34	-9.61	-5.71	335.882	0.6967	6	1.43796	130.679	2.29248	0.546	1.7465	191.01	0.7015	-0.004	6	0.5115	0.7739	1.5194	243.9849
37.9	326.8	2.34	0.87	-5.69	326.811	0.716	6	1.45475	130.6122	2.29901	0.54912	1.7499	185.45	0.7211	-0.002	6	0.5187	0.7703	1.5377	236.2559
38	309.1	2.41	1.5	-5.71	309.118	0.7796	6	1.49838	130.6921	2.30554	0.55224	1.7533	174.99	0.7855	-0.001	6	0.5366	0.7626	1.5843	221.1378
38.1	280.8	2.32	0.87	-5.71	280.811	0.8262	6	1.54509	130.1794	2.31205	0.55536	1.7567	158.54	0.833	-0.002	6	0.5563	0.7543	1.6356	198.5291
38.2	242.5	2.26	0.75	-5.71	242.509	0.9319	6	1.62674	129.63	2.31853	0.55848	1.7601	136.47	0.9409	-0.002	6	0.5902	0.7406	1.7243	168.1099
38.3	197.2	2.09	0.86	-5.69	197.211	1.0598	6	1.72905	128.5535	2.32496	0.5616	1.7634	110.52	1.0724	-0.003	6	0.6331	0.7237	1.8366	133.2947
38.4	153.4	2.25	0.73	-5.69	153.409	1.4667	6	1.90645	128.4807	2.33138	0.56472	1.7667	85.516	1.4893	-0.003	5	0.7058	0.6964	2.027	99.43471
38.5	126.8	2.32	1	-5.68	126.812	1.8295	5	2.03303	128.2405	2.3378	0.56784	1.77	70.326	1.8638	-0.004	5	0.7582	0.677	2.1639	79.64436
38.6	124.9	2.41	1.73	-5.68	124.921	1.9292	5	2.05433	128.4823	2.34422	0.57096	1.7733	69.125	1.9661	-0.004	5	0.767	0.673	2.1867	77.96399
38.7	135.7	2.69	0.85	-5.69	135.71	1.9822	5	2.03876	129.4886	2.3507	0.57408	1.7766	75.064	2.0171	-0.004	5	0.7598	0.6745	2.1675	85.01359
38.8	150.4	3.02	-0.42	-5.69	150.395	2.0081	5	2.01348	130.5859	2.35722	0.5772	1.78	83.166	2.04	-0.004	5	0.7486	0.6775	2.1377	94.78344
38.9	165.8	3.16	-2.16	-5.68	165.774	1.9062	6	1.9688	131.1549	2.36378	0.58032	1.7835	91.625	1.9338	-0.005	5	0.7301	0.6831	2.0887	105.4891
39	178.3	3.03	-3.88	-5.67	178.253	1.6998	6	1.91049	131.0245	2.37033	0.58344	1.7869	98.429	1.7227	-0.005	5	0.7068	0.6905	2.0271	114.7733
39.1	187.6	2.9	-5.45	-5.67	187.533	1.5464	6	1.86497	130.8274	2.37687	0.58656	1.7903	103.42	1.5662	-0.005	6	0.6888	0.6961	1.9794	121.8092
39.2	194.1	2.65	-6.57	-5.68	194.02	1.3658	6	1.81472	130.2507	2.38339	0.58968	1.7937	106.84	1.3828	-0.006	6	0.6693	0.7024	1.9278	127.212
39.3	191.9	2.44	-7.23	-5.68	191.812	1.2721	6	1.79512	129.6187	2.38987	0.5928	1.7971	105.41	1.2881	-0.006	6	0.6623	0.7041	1.909	126.05
39.4	179.4	2.48	-7.65	-5.69	179.306	1.3831	6	1.8417	129.5733	2.39635	0.59592	1.8004	98.26	1.4018	-0.006	6	0.6817	0.696	1.9595	116.3732
39.5	171	2.57	-8.07	-5.69	170.901	1.5038	6	1.88261	129.717	2.40283	0.59904	1.8038	93.413	1.5252	-0.007	6	0.6986	0.6889	2.0034	109.7059
39.6	169.4	2.56	-8.23	-5.7	169.299	1.5121	6	1.88713	129.6655	2.40932	0.60216	1.8072	92.349	1.5339	-0.007	6	0.7009	0.6872	2.0089	108.3868
39.7	168.4	2.56	-8.52	-5.71	168.296	1.5211	6	1.89078	129.651	2.4158	0.60528	1.8105	91.62	1.5433	-0.007	6	0.7027	0.6856	2.0133	107.4837
39.8	163.3	2.47	-8.79	-5.69	163.192	1.5136	6	1.89818	129.314	2.42226	0.6084	1.8139	88.634	1.5364	-0.008	5	0.7064	0.6833	2.0227	103.828
39.9	156.5	2.32	-8.94	-5.7	156.391	1.4835	6	1.90433	128.7518	2.4287	0.61152	1.8172	84.726	1.5069	-0.008	5	0.7099	0.6812	2.0315	99.11559
40	146	2.24	-9.19	-5.69	145.888	1.5354	6	1.93591	128.3255	2.43512	0.61464	1.8205	78.799	1.5615	-0.009	5	0.7237	0.6752	2.0672	91.54501
40.1	132.3	2.17	-9.47	-5.69	132.184	1.6417	6	1.98649	127.8526	2.44151	0.61776	1.8238	71.141	1.6725	-0.01	5	0.7453	0.6665	2.1236	81.71982
40.2	127.1	2.24	-9.71	-5.67	126.981	1.764	5	2.02113	127.9869	2.44791	0.62088	1.827	68.162	1.7987	-0.011	5	0.7598	0.6603	2.1611	77.71875
40.3	141.2	2.26	-9.94	-5.66	141.078	1.602	6	1.95929	128.3087	2.45433	0.624	1.8303	75.737	1.6303	-0.01	5	0.7344	0.6687	2.0939	87.60606
40.4	168.5	2.39	-10.23	-5.63	168.375	1.4195	6	1.86847	129.1494	2.46078	0.62712	1.8337	90.482	1.4405	-0.008	6	0.6965	0.6818	1.9942	106.914
40.5	193	2.56	-10.56	-5.61	192.871	1.3273	6	1.80718	129.9834	2.46728	0.63024	1.837	103.65	1.3445	-0.007	6	0.6708	0.6907	1.9264	124.2853
40.6	209.9	2.67	-10.75	-5.61	209.768	1.2728	6	1.76931	130.4961	2.47381	0.63336	1.8405	112.63	1.288	-0.007	6	0.6551	0.6958	1.8847	136.3233
40.7	215.5	2.67	-10.81	-5.6	215.368	1.2397	6	1.75316	130.5604	2.48034	0.63648	1.8439	115.46	1.2542	-0.007	6	0.6488	0.6975	1.8676	140.3246
40.8	220.5	2.64	-10.81	-5.59	220.368	1.198	6	1.73542	130.5337	2.48686	0.6396	1.8473	117.95	1.2117	-0.007	6	0.6419	0.6993	1.8491	143.9959
40.9	227.8	2.61	-10.81	-5.58	227.668	1.1464	6	1.71172	130.5295	2.49339	0.64272	1.8507	121.67	1.1591	-0.006	6	0.6326	0.7021	1.8242	149.419
41	228.6	2.58	-10.81	-5.57	228.468	1.1293	6	1.70582	130.4535	2.49991	0.64584	1.8541	121.88	1.1418	-0.006	6	0.6306	0.7021	1.8185	149.9396
41.1	223.2	2.58	-10.81	-5.57	223.068	1.1566	6	1.72049	130.3951	2.50643	0.64896	1.8575	118.74	1.1697	-0.006	6	0.6369	0.6988	1.8348	145.6588
41.2	218.2	2.76	-10.81	-5.57	218.068	1.2657	6	1.75634	130.8333	2.51297	0.65208	1.8609	115.83	1.2804	-0.007	6	0.6514	0.6923	1.8725	141.0265
41.3	212.1	3.3	-10.88	-5.55	211.967	1.5569	6	1.83283	132.0716	2.51958	0.6552	1.8644	112.34	1.5756	-0.007	6	0.6817	0.6797	1.9514	134.5417
41.4	195.7	3.89	-10.88	-5.57	195.567	1.9891	6	1.93755	133.0787	2.52623	0.65832	1.8679	103.35	2.0151	-0.007	5	0.7237	0.6628	2.0612	120.9207
41.5	165.2	3.66	-10.88	-5.57	165.067	2.2173	5	2.02044	132.2193	2.53284	0.66144	1.8714	86.852	2.2518	-0.009	5	0.759	0.6487	2.1537	99.64298
41.6	125.6	3.16	-10.88	-5.57	125.467	2.5186	5	2.13939	130.4754	2.53936	0.66456	1.8748	65.568	2.5706	-0.012	5	0.8106	0.629	2.2885	73.07318
41.7	126.1	2.93	-10.88	-5.57	125.967	2.326	5	2.11219	129.9322	2.54586	0.66768	1.8782	65.713	2.374	-0.012	5	0.8004	0.6317	2.2614	73.68741
41.8	150.4	2.79	-10.81	-5.57	150.268	1.8567	6	1.98811	130.0042	2.55236	0.6708	1.8816	78.507	1.8888	-0.01	5	0.7496	0.6496	2.1275	90.6809
41.9	214.9	2.94	-10.97	-5.61	214.766	1.3689	6	1.78643	131.2584	2.55892	0.67392	1.885	112.58	1.3854	-0.007	6	0.6656	0.6809	1.9067	136.555
42	249.5	3.15	-11.11	-5.61	249.364	1.2632	6	1.71792	132.1275	2.56553	0.67704	1.8885	130.69	1.2763	-0.006	6	0.6369	0.6915	1.8308	161.281
42.1	254.5	3.18	-11.11	-5.63	254.364	1.2502	6	1.70895	132.2453	2.57214	0.68016	1.892	133.08	1.263	-0.006	6	0.6334	0.6921	1.8213	164.6832
42.2	252.1	3.18	-11.11	-5.63	251.964	1.2621	6	1.71474	132.2222	2.57875	0.68328	1.8955	131.57	1.2751	-0.006	6	0.6361	0.6902	1.828	162.6601
42.3	254.1	3.28	-11.11	-5.63	253.964	1.2915	6	1.72029	132.468	2.58538	0.6864	1.899	132.38	1.3048	-0.006	6	0.6384	0.6884	1.8336	163.5465

42.4	260.7	3.32	-11.11	-5.63	260.564	1.2742	6	1.70869	132.6193	2.59201	0.68952	1.9025	135.6	1.287	-0.006	6	0.6338	0.6895	1.8211	168.0911
42.5	264.7	3.4	-11.11	-5.64	264.564	1.2851	6	1.70742	132.8306	2.59865	0.69264	1.906	137.44	1.2979	-0.006	6	0.6334	0.6888	1.8195	170.5374
42.6	265.8	3.52	-11.11	-5.65	265.664	1.325	6	1.71664	133.0946	2.6053	0.69576	1.9095	137.76	1.3381	-0.006	6	0.6372	0.6865	1.829	170.666
42.7	264.9	3.58	-11.15	-5.65	264.764	1.3522	6	1.72446	133.21	2.61197	0.69888	1.9131	137.03	1.3656	-0.006	6	0.6406	0.6843	1.8375	169.536
42.8	264.2	3.51	-11.18	-5.66	264.063	1.3292	6	1.71936	133.059	2.61862	0.702	1.9166	136.41	1.3425	-0.006	6	0.639	0.6841	1.8329	169.0375
42.9	262.9	3.44	-11.18	-5.66	262.763	1.3092	6	1.71555	132.8996	2.62526	0.70512	1.9201	135.48	1.3224	-0.006	6	0.638	0.6837	1.8297	168.0999
43	261.5	3.4	-11.18	-5.66	261.363	1.3009	6	1.71485	132.801	2.6319	0.70824	1.9237	134.5	1.3141	-0.006	6	0.6381	0.6829	1.8297	166.9797
43.1	269.6	3.48	-11.18	-5.67	269.463	1.2915	6	1.70409	133.0456	2.63856	0.71136	1.9272	138.45	1.3042	-0.006	6	0.6337	0.6839	1.8178	172.4535
43.2	293.2	3.57	-11.18	-5.67	293.063	1.2182	6	1.66156	133.4372	2.64523	0.71448	1.9308	150.42	1.2293	-0.005	6	0.6162	0.6903	1.7712	189.4756
43.3	321.3	3.57	-11.18	-5.68	321.163	1.1116	6	1.60573	133.6605	2.65191	0.7176	1.9343	164.66	1.1208	-0.005	6	0.5934	0.6991	1.7109	210.4444
43.4	331.5	3.51	-11.18	-5.67	331.363	1.0593	6	1.58087	133.6127	2.65859	0.72072	1.9379	169.62	1.0678	-0.005	6	0.5836	0.7025	1.6847	218.2336
43.5	333.5	3.4	-11.18	-5.69	333.363	1.0199	6	1.56633	133.3944	2.66526	0.72384	1.9414	170.34	1.0281	-0.005	6	0.5782	0.7041	1.6701	220.0401
43.6	331.7	3.26	-11.18	-5.69	331.563	0.9832	6	1.55535	133.0736	2.67191	0.72696	1.945	169.1	0.9912	-0.005	6	0.5744	0.7049	1.6597	219.1149
43.7	325	3.12	-11.18	-5.69	324.863	0.9604	6	1.55301	132.7026	2.67855	0.73008	1.9485	165.35	0.9684	-0.005	6	0.5742	0.7043	1.6587	214.4518
43.8	312.3	3.07	-11.11	-5.69	312.164	0.9835	6	1.57196	132.4871	2.68517	0.7332	1.952	158.55	0.992	-0.005	6	0.5825	0.7	1.6801	204.7343
43.9	299.4	2.94	-11.11	-5.69	299.264	0.9824	6	1.58333	132.0676	2.69178	0.73632	1.9555	151.66	0.9913	-0.005	6	0.588	0.6969	1.694	195.3343
44	282.8	2.76	-11.11	-5.69	282.664	0.9764	6	1.59738	131.4661	2.69835	0.73944	1.9589	142.92	0.9858	-0.006	6	0.5948	0.6933	1.7114	183.4359
44.1	271.3	2.65	-11.05	-5.7	271.165	0.9773	6	1.6095	131.0672	2.7049	0.74256	1.9623	136.81	0.9871	-0.006	6	0.6005	0.6901	1.7262	175.0889
44.2	262.7	2.45	-11.03	-5.71	262.565	0.9331	6	1.6038	130.4145	2.71142	0.74568	1.9657	132.19	0.9428	-0.006	6	0.5993	0.6899	1.7224	169.4304
44.3	255.8	2.37	-11.03	-5.71	255.665	0.927	6	1.60948	130.1066	2.71793	0.7488	1.9691	128.46	0.937	-0.006	6	0.6023	0.6879	1.7299	164.449
44.4	252.6	2.32	-10.98	-5.71	252.466	0.9189	6	1.61039	129.9199	2.72443	0.75192	1.9725	126.61	0.929	-0.006	6	0.6032	0.6868	1.7319	162.1051
44.5	250.5	2.04	-10.96	-5.7	250.366	0.8148	6	1.57493	128.9584	2.73087	0.75504	1.9758	125.33	0.8238	-0.006	6	0.5901	0.6918	1.6969	161.8981
44.6	252.6	2.18	-10.96	-5.7	252.466	0.8635	6	1.59063	129.4644	2.73735	0.75816	1.9792	126.18	0.873	-0.006	6	0.5963	0.6884	1.7128	162.4738
44.7	258.2	2.32	-10.96	-5.71	258.066	0.899	6	1.59692	129.9734	2.74385	0.76128	1.9826	128.78	0.9087	-0.006	6	0.5986	0.6867	1.7184	165.7052
44.8	259.6	2.43	-10.96	-5.72	259.466	0.9365	6	1.60845	130.3255	2.75036	0.7644	1.986	129.27	0.9466	-0.006	6	0.6032	0.684	1.7301	165.954
44.9	259.1	2.47	-10.96	-5.73	258.966	0.9538	6	1.61489	130.4403	2.75688	0.76752	1.9894	128.79	0.9641	-0.006	6	0.606	0.6821	1.7371	165.1605
45	263	2.47	-10.98	-5.73	262.866	0.9396	6	1.60572	130.4767	2.76341	0.77064	1.9928	130.52	0.9496	-0.006	6	0.6025	0.6829	1.7275	167.8687
45.1	264.9	2.5	-11.03	-5.73	264.765	0.9442	6	1.60521	130.5826	2.76994	0.77376	1.9962	131.25	0.9542	-0.006	6	0.6025	0.6822	1.727	168.9193
45.2	260.5	2.58	-11.03	-5.73	260.365	0.9909	6	1.62569	130.7722	2.77648	0.77688	1.9996	128.82	1.0016	-0.006	6	0.611	0.6778	1.749	165.0097
45.3	246.7	2.64	-11.03	-5.73	246.565	1.0707	6	1.66655	130.8076	2.78302	0.78	2.003	121.71	1.0829	-0.006	6	0.6281	0.6698	1.7935	154.3073
45.4	224.5	2.6	-11.04	-5.73	224.365	1.1588	6	1.71944	130.4658	2.78954	0.78312	2.0064	110.43	1.1734	-0.007	6	0.6507	0.6594	1.8523	138.0921
45.5	171.6	2.62	-11.11	-5.75	171.464	1.528	6	1.88682	129.866	2.79603	0.78624	2.0098	83.923	1.5534	-0.009	5	0.721	0.6297	2.0366	100.3701
45.6	120.8	2.72	-11.11	-5.75	120.664	2.2542	5	2.11441	129.2831	2.8025	0.78936	2.0131	58.546	2.3078	-0.013	5	0.8168	0.5913	2.2877	65.86777
45.7	74.1	2.56	-11.11	-5.75	73.964	3.4611	4	2.39523	127.6458	2.80888	0.79248	2.0164	35.288	3.5978	-0.022	4	0.9379	0.5462	2.6045	36.72905
45.8	50	2.22	-11.11	-5.73	49.864	4.4521	4	2.59226	125.6415	2.81516	0.7956	2.0196	23.297	4.7185	-0.034	3	1	0.5239	2.8298	23.29657
45.9	35.3	1.77	-11.11	-5.74	35.164	5.0336	3	2.73678	123.1321	2.82132	0.79872	2.0226	15.991	5.4726	-0.049	3	1	0.5231	2.995	15.99067
46	30.9	1.29	-11.11	-5.75	30.764	4.1932	4	2.72415	120.4914	2.82734	0.80184	2.0255	13.792	4.6176	-0.057	3	1	0.5224	2.9969	13.79247
46.1	26.4	0.77	-11.11	-5.73	26.264	2.9318	4	2.67446	116.3301	2.83316	0.80496	2.0282	11.553	3.2863	-0.068	3	1	0.5217	2.9684	11.55254
46.2	23.1	0.52	-11.11	-5.74	22.964	2.2644	4	2.65184	113.1302	2.83882	0.80808	2.0307	9.9103	2.5838	-0.08	3	1	0.5211	2.9639	9.9103
46.3	22.1	0.37	-11.11	-5.75	21.964	1.6846	4	2.59364	110.5315	2.84434	0.8112	2.0331	9.404	1.9352	-0.084	4	1	0.5204	2.9161	9.404
46.4	21.8	0.28	-11.11	-5.75	21.664	1.2925	5	2.53635	108.4586	2.84976	0.81432	2.0354	9.2433	1.4882	-0.086	4	1	0.5198	2.8654	9.24331
46.5	21.6	0.28	-11.11	-5.75	21.464	1.3045	5	2.54189	108.436	2.85519	0.81744	2.0378	9.1321	1.5047	-0.087	4	1	0.5193	2.8723	9.13206
46.6	21.9	0.27	-11.11	-5.75	21.764	1.2406	5	2.52534	108.2037	2.8606	0.82056	2.04	9.2662	1.4283	-0.086	4	1	0.5187	2.8558	9.26621
46.7	22.1	0.26	-11.11	-5.76	21.964	1.1838	5	2.5114	107.9499	2.86599	0.82368	2.0423	9.3512	1.3614	-0.085	4	1	0.5181	2.8424	9.35117
46.8	21	0.27	-11.11	-5.78	20.864	1.2941	4	2.55056	108.1007	2.8714	0.8268	2.0446	8.8001	1.5006	-0.09	4	1	0.5175	2.8858	8.80007
46.9	19.2	0.27	-11.11	-5.79	19.064	1.4163	4	2.60447	107.8807	2.87679	0.82992	2.0469	7.9083	1.668	-0.101	3	1	0.5169	2.9487	7.90827
47	17.9	0.29	-11.11	-5.81	17.764	1.6325	4	2.66328	108.2313	2.8822	0.83304	2.0492	7.2624	1.9487	-0.11	3	1	0.5164	3.0143	7.26238
47.1	17.3	0.32	-11.11	-5.81	17.164	1.8644	4	2.70719	108.8677	2.88765	0.83616	2.0515	6.959	2.2415	-0.115	3	1	0.5158	3.0611	6.95903
47.2	17.6	0.33	-11.11	-5.83	17.464	1.8896	4	2.70414	109.1352	2.89311	0.83928	2.0538	7.0945	2.2648	-0.113	3	1	0.5152	3.0562	7.09452
47.3	20.7	0.33	-11.11	-5.83	20.564	1.6048	4	2.60584	109.5337	2.89858	0.8424	2.0562	8.5914	1.8681	-0.093	3	1	0.5146	2.942	8.59138
47.4	21.5	0.33	-11.11	-5.84	21.364	1.5447	4	2.5829	109.6268	2.90406	0.84552	2.0585	8.9675	1.7877	-0.089	4	1	0.514	2.9163	8.96748
47.5	19.7	0.31	-11.1	-5.85	19.5641	1.5845	4	2.621	108.9547	2.90951	0.84864	2.0609	8.0814	1.8613	-0.099	3	1	0.5134	2.9641	8.08135
47.6	18.2	0.46	-11.03	-5.87	18.065	2.5464	4	2.76602	111.6479	2.91509	0.85176	2.0633	7.3424	3.0363	-0.109	3	1	0.5128	3.1112	7.34244
47.7	18.3	0.46	-11.03	-5.88	18.165	2.5323	4	2.76267	111.6614	2.92068	0.85488	2.0658	7.3794	3.0175	-0.108	3	1	0.5122	3.1079	7.37939
47.8	17.7	0.44	-11.03	-5.88	17.565	2.505	4	2.77173	111.2542	2.92624	0.858	2.0682	7.0779	3.0057	-0.113	3	1	0.5116	3.1222	7.07788
47.9	16.6	0.43	-10.98	-5.9	16.4656	2.6115	4	2.80508	110.9283	2.93179	0.86112	2.0707	6.536	3.1772	-0.122	3	1	0.511	3.1643	6.53598
48	16.9	0.42	-10.96	-5.9	16.7659	2.5051	4	2.78818	110.8002	2.93733	0.86424	2.0731	6.6705	3.0372	-0.12	3	1	0.5104	3.1463	6.6705
48.1	16.9	0.38	-10.96	-5.92	16.7659	2.2665	4	2.76317	110.0679	2.94283	0.86736	2.0755	6.6602	2.749	-0.12	3	1	0.5098	3.1236	6.66019
48.2	17.4	0.32	-10.96	-5.92	17.2659	1.8534	4	2.70363	108.8822	2.94827	0.87048	2.0778	6.8908	2.235	-0.116	3	1	0.5093	3.0641	6.89076
48.3	17.8	0.3	-10.9	-5.94	17.6666	1.6981	4	2.67453	108.4659	2.9537	0.8736	2.0801	7.0732	2.039	-0.113	3	1	0.5087	3.0341	7.07318
48.4	18.1	0.31	-10.88	-5.94	17.9668	1.7254	4	2.67215	108.7469	2.95913	0.87672	2.0824	7.2069	2.0656	-0.111	3	1	0.5081	3.0299	7.20688
48.5	18.8	0.33	-10.88	-5.95	18.6668	1.7678	4	2.66405	109.2976	2.9646	0.87984	2.0848	7.5319	2.1016	-0.106	3	1	0.5075	3.0172	7.53192
48.6	19.8	0.38	-10.83	-5.96	19.6674	1.9321	4	2.66676	110.4572	2.97012	0.88296	2.0872	8	2.2758	-0.1	3	1	0.507	3.0127	8.00001
48.7	19.7	0.52	-10.81	-5.97	19.5677	2.6574	4	2.74908	112.7399	2.97576	0.88608	2.0897	7.9399	3.1341	-0.1	3	1	0.5064	3.0905	7.93994
48.8	21.6	0.74	-10.81	-5.99	21.4677	3.447	4	2.78677	115.5475	2.98154	0.8892	2.0923	8.8352	4.003	-0.09	3	1	0.5057	3.113	8.83517
48.9	30.3	0.97	-10.81	-6.02	30.1677	3.2154	4	2.65396	118.3576	2.98745	0.89232	2.0951	12.973	3.5688	-0.061	3	1	0.505	2.9491	12.97303
49	44.2	1.02	-10.81	-6.04	44.0677	2.3146	5	2.4361	119.6496	2.99344	0.89544	2.098	19.578	2.4833	-0.041	4	0.9807	0.5111	2.707	19.83868
49.1	67.4	1.18	-10.77	-6.07	67.2682	1.7542	5	2.21844	121.7474	2.99952	0.89856	2.101	30.59	1.836	-0.026	5	0.8837	0.5455	2.4502	33.13072
49.2	96.7	1.39	-10.81	-6.11	96.5677	1.4394	5	2.04416	123.8277	3.00571	0.90168	2.104	44.468	1.4857	-0.018	5	0.8057	0.5748	2.247	50.82352
49.3	114	1.63	-10.88	-6.12	113.867	1.4315	6	1.99023	125.395	3.01198	0.9048	2.1072	52.608	1.4704	-0.015	5	0.7808	0.584	2.1815	61.1811
49.4	130.5	1.89	-10.88	-6.13	130.367	1.4498	6	1.95208	126.808	3.01832	0.90792	2.1104	60.343	1.4841	-0.013	5	0.763	0.5905	2.1343	71.06913

49.5	141.3	2.13	-10.83	-6.15	141.167	1.5089	6	1.94028	127.8768	3.02472	0.91104	2.1137	65.357	1.5419	-0.012	5	0.7568	0.5923	2.1176	77.33327
49.6	163.1	2.31	-10.81	-6.16	162.968	1.4175	6	1.87768	128.8207	3.03116	0.91416	2.117	75.549	1.4443	-0.011	5	0.7296	0.6029	2.0456	91.1335
49.7	180.9	2.57	-10.81	-6.18	180.768	1.4217	6	1.84819	129.8539	3.03765	0.91728	2.1204	83.82	1.446	-0.01	6	0.7161	0.6079	2.0098	102.108
49.8	200.3	2.81	-10.86	-6.21	200.167	1.4038	6	1.8147	130.7558	3.04419	0.9204	2.1238	92.817	1.4255	-0.009	6	0.7011	0.6136	1.9701	114.303
49.9	222.6	0	-10.88	-6.21	222.467	0	0	0	120.9	3.05024	0.92352	2.1267	103.17	0	-0.008	0	1	0.4975	0	0
50	241.9	0	-10.88	-6.23	241.767	0	0	0	120.9	3.05628	0.92664	2.1296	112.09	0	-0.007	0	1	0.4969	0	0

	CPT-14	In situ data							Basic output data											
Depth (ft)	qc (tsf)	fs (tsf)	u (psi)	Other	qt (tsf)	Rf(%)	SBT	Ic SBT	ã (pcf)	ó,v (tsf)	u0 (tsf)	ó',vo (tsf)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.1	1.3	0	0.01	0.43	1.30012	0	0	0	120.9	0.00605	0	0.0061	214.07	0	0.0006	0	1	175.04	0	0
0.2	3.4	0	0.02	0.31	3.40024	0	0	0	120.9	0.01209	0	0.0121	280.24	0	0.0004	0	1	87.519	0	0
0.3	7.4	0.22	0.02	0.63	7.40024	2.9729	3	3.12393	104.0742	0.01729	0	0.0173	426.92	2.9798	0.0002	5	0.6895	17.053	2.1943	118.9889
0.4	23.4	0.38	0.02	2.14	23.4002	1.6239	4	2.56192	110.8811	0.02284	0	0.0228	1023.6	1.6255	6E-05	6	0.5622	8.6401	1.8606	190.8914
0.5	122.5	0.5	0.02	1.35	122.5	0.4082	6	1.63347	116.9266	0.02868	0	0.0287	4269.7	0.4083	1E-05	7	0.3221	3.1968	1.2262	370.0135
0.6	205.3	0.56	-0.04	0.94	205.3	0.2728	6	1.35186	119.0152	0.03463	0	0.0346	5926.5	0.2728	-1E-05	7	0.2514	2.3622	1.0414	458.243
0.7	304.8	0.87	-0.05	0.64	304.799	0.2854	7	1.2155	123.2026	0.04079	0	0.0408	7470.5	0.2855	-1E-05	7	0.2202	2.0478	0.9723	589.8098
0.8	401.7	1.32	-0.05	-0.41	401.699	0.3286	7	1.15581	126.9263	0.04714	0	0.0471	8520.2	0.3286	-1E-05	7	0.2156	1.9554	0.9498	742.249
0.9	411.5	1.88	-0.05	-0.39	411.499	0.4569	7	1.24447	129.5727	0.05362	0	0.0536	7673.4	0.4569	-1E-05	7	0.2475	2.0919	1.0428	813.4425
1	419.5	2.55	-0.11	-0.8	419.499	0.6079	7	1.32954	131.85	0.06021	0	0.0602	6966	0.608	-2E-05	7	0.2823	2.2463	1.1307	890.428
1.1	422.9	3.33	-0.06	-1.04	422.899	0.7874	6	1.41416	133.8224	0.0669	0	0.0669	6320	0.7876	-1E-05	7	0.3166	2.3969	1.2186	957.8077
1.2	430.7	4.04	-0.12	-0.95	430.699	0.938	6	1.47023	135.2812	0.07367	0	0.0737	5845.5	0.9382	-2E-05	7	0.3406	2.4786	1.2802	>1,000
1.3	436.4	4.63	-0.06	-0.88	436.399	1.061	6	1.51069	136.3107	0.08048	0	0.0805	5421.2	1.0612	-1E-05	6	0.3585	2.5179	1.3258	>1,000
1.4	448.7	5.12	-0.13	-0.84	448.698	1.1411	6	1.53019	137.1145	0.08734	0	0.0873	5136.4	1.1413	-2E-05	6	0.3688	2.5094	1.3521	>1,000
1.5	455	5.49	-0.13	-0.93	454.998	1.2066	6	1.5472	137.28	0.0942	0	0.0942	4829	1.2069	-2E-05	6	0.3776	2.4924	1.374	>1,000
1.6	448.2	5.75	-0.17	-0.95	448.198	1.2829	6	1.57317	137.28	0.10107	0	0.1011	4433.7	1.2832	-3E-05	6	0.3883	2.4893	1.4015	>1,000
1.7	430.8	5.92	-0.06	-0.99	430.799	1.3742	6	1.60759	137.28	0.10793	0	0.1079	3990.4	1.3745	-1E-05	8	0.4013	2.4994	1.4348	>1,000
1.8	408.7	5.59	-0.06	-0.98	408.699	1.3678	6	1.61823	137.28	0.11479	0	0.1148	3559.3	1.3681	-1E-05	6	0.4046	2.4563	1.443	948.5013
1.9	377.3	4.79	-0.08	-1	377.299	1.2696	6	1.61074	136.2043	0.12161	0	0.1216	3101.7	1.27	-2E-05	6	0.3999	2.3755	1.4305	846.7725
2	342	3.62	0.11	-0.98	342.001	1.0585	6	1.57219	133.9156	0.1283	0	0.1283	2664.6	1.0589	2E-05	6	0.3827	2.2423	1.3863	724.4981
2.1	317.9	2.53	0.35	-0.96	317.904	0.7958	6	1.49692	131.116	0.13486	0	0.1349	2356.3	0.7962	8E-05	7	0.3553	2.0791	1.3083	624.3835
2.2	293.3	2.48	0.4	-0.97	293.305	0.8455	6	1.53983	130.7735	0.1414	0	0.1414	2073.4	0.8459	0.0001	6	0.37	2.1058	1.3461	583.4469
2.3	275.5	2.66	0.4	-0.96	275.505	0.9655	6	1.601	131.1335	0.14795	0	0.148	1861.1	0.966	0.0001	6	0.3921	2.1628	1.4035	562.848
2.4	252.4	2.88	0.33	-0.94	252.404	1.141	6	1.68074	131.5014	0.15453	0	0.1545	1632.4	1.1417	9E-05	6	0.4204	2.2452	1.4771	535.2561
2.5	244.8	3	0.32	-0.96	244.804	1.2255	6	1.71297	131.7255	0.16111	0	0.1611	1518.5	1.2263	9E-05	6	0.433	2.2589	1.5093	522.2715
2.6	234.6	3.06	0.4	-0.96	234.605	1.3043	6	1.74558	131.7666	0.1677	0	0.1677	1397.9	1.3053	0.0001	6	0.4453	2.271	1.5409	503.161
2.7	222	3.11	0.32	-0.96	222.004	1.4009	6	1.78475	131.7505	0.17429	0	0.1743	1272.8	1.402	0.0001	6	0.4597	2.291	1.5779	480.301
2.8	209.7	3.08	0.32	-0.96	209.704	1.4687	6	1.81642	131.5406	0.18087	0	0.1809	1158.4	1.47	0.0001	6	0.4712	2.2987	1.6074	455.1853
2.9	197	2.97	0.32	-0.96	197.004	1.5076	6	1.84264	131.1221	0.18742	0	0.1874	1050.1	1.509	0.0001	6	0.4806	2.2974	1.6312	427.3363
3	183.9	2.86	0.25	-0.96	183.903	1.5552	6	1.8724	130.6781	0.19396	0	0.194	947.17	1.5568	0.0001	6	0.4911	2.3006	1.658	399.4269
3.1	173.1	2.78	0.25	-0.96	173.103	1.606	6	1.90022	130.3229	0.20047	0	0.2005	862.48	1.6078	0.0001	6	0.5012	2.3018	1.6836	376.1354
3.2	162.3	2.66	0.23	-0.96	162.303	1.6389	6	1.92539	129.843	0.20696	0	0.207	783.21	1.641	0.0001	6	0.5102	2.2989	1.7064	352.1711
3.3	152.4	2.33	0.17	-0.98	152.402	1.5289	6	1.92156	128.7202	0.2134	0	0.2134	713.16	1.531	8E-05	6	0.5084	2.2568	1.7009	324.5906
3.4	149.2	1.96	0.24	-0.98	149.203	1.3137	6	1.8804	127.4032	0.21977	0	0.2198	677.9	1.3156	0.0001	6	0.4939	2.1732	1.662	305.9907
3.5	159.2	1.73	0.23	-0.96	159.203	1.0867	6	1.80237	126.6481	0.2261	0	0.2261	703.12	1.0882	0.0001	6	0.4681	2.0593	1.5933	309.3982
3.6	185.5	1.6	0.17	-0.97	185.502	0.8625	6	1.68503	126.4494	0.23243	0	0.2324	797.11	0.8636	7E-05	6	0.43	1.9189	1.4925	335.9831
3.7	212.3	1.72	0.1	-0.98	212.301	0.8102	6	1.62386	127.3077	0.23879	0	0.2388	888.07	0.8111	3E-05	6	0.4121	1.8469	1.4449	370.1443
3.8	224.8	2.1	0.02	-0.96	224.8	0.9342	6	1.65013	128.9078	0.24524	0	0.2452	915.67	0.9352	1E-05	6	0.4246	1.8602	1.477	394.786
3.9	224.2	2.81	-0.11	-0.98	224.199	1.2534	6	1.74523	131.0323	0.25179	0	0.2518	889.43	1.2548	-4E-05	6	0.46	1.9357	1.5729	409.6828
4	219.5	3.93	-0.46	-0.97	219.494	1.7905	6	1.87064	133.4351	0.25846	0	0.2585	848.24	1.7926	-2E-04	6	0.5082	2.0468	1.6974	424.0859
4.1	209.6	5.01	-0.62	-0.96	209.592	2.3904	5	1.98277	135.0991	0.26521	0	0.2652	789.27	2.3934	-2E-04	8	0.5507	2.1425	1.8075	423.8488
4.2	197.9	5.8	-0.7	-0.95	197.891	2.9309	8	2.06916	136.0303	0.27202	0	0.272	726.5	2.9349	-3E-04	8	0.5832	2.2081	1.8917	412.4064
4.3	190.1	6.41	-0.62	-0.94	190.092	3.372	8	2.12902	136.664	0.27885	0	0.2789	680.7	3.377	-2E-04	8	0.6061	2.244	1.9509	402.5534
4.4	175.9	6.17	-0.5	-0.93	175.894	3.5078	8	2.16242	136.1954	0.28566	0	0.2857	614.75	3.5135	-2E-04	8	0.618	2.2461	1.9812	372.7782
4.5	164.5	5.67	-0.47	-0.93	164.494	3.4469	8	2.17321	135.4136	0.29243	0	0.2924	561.51	3.4531	-2E-04	8	0.6216	2.2242	1.9899	345.1617
4.6	158.4	5.12	-0.57	-0.94	158.393	3.2325	8	2.1605	134.5749	0.29916	0	0.2992	528.46	3.2386	-3E-04	8	0.6171	2.1806	1.9774	325.8031
4.7	152.2	4.63	-0.66	-0.94	152.192	3.0422	5	2.15001	133.7414	0.30585	0	0.3059	496.61	3.0483	-3E-04	8	0.6134	2.1412	1.9669	307.3585
4.8	144.1	3.83	-0.67	-0.94	144.092	2.658	5	2.11877	132.22	0.31246	0	0.3125	460.16	2.6638	-3E-04	8	0.6015	2.0828	1.935	283.0211
4.9	135.8	3.1	-0.69	-0.96	135.792	2.2829	5	2.08464	130.528	0.31898	0	0.319	424.7	2.2883	-4E-04	6	0.5885	2.0251	1.9001	259.2776
5	130.7	2.75	-0.5	-0.96	130.694	2.1042	5	2.06899	129.5581	0.32546	0	0.3255	400.57	2.1094	-3E-04	6	0.5829	1.9882	1.8849	244.9688
5.1	121.9	2.45	-0.46	-0.98	121.894	2.0099	5	2.07463	128.5429	0.33189	0	0.3319	366.28	2.0154	-3E-04	6	0.5847	1.9698	1.8888	226.2996
5.2	109.3	2.18	-1.48	-0.96	109.282	1.9948	5	2.10476	127.4222	0.33826	0	0.3383	322.07	2.001	-1E-03	6	0.5949	1.9707	1.9147	202.9026
5.3	107	2.07	-1.33	-0.94	106.984	1.9349	5	2.10163	126.9915	0.34461	0	0.3446	309.45	1.9411	-9E-04	6	0.5945	1.9482	1.913	196.3475
5.4	104.6	2.27	-1.26	-0.92	104.585	2.1705	5	2.14445	127.611	0.35099	0	0.351	296.97	2.1778	-9E-04	6	0.6115	1.9636	1.9565	193.4277
5.5	103.1	2.48	-1.26	-0.94	103.085	2.4058	5	2.18137	128.2232	0.3574	0	0.3574	287.43	2.4142	-9E-04	5	0.6264	1.9737	1.9948	191.6172
5.6	98.6	2.53	-1.32	-0.94	98.5838	2.5663	5	2.21514	128.2603	0.36381	0	0.3638	269.97	2.5759	-1E-03	5	0.6395	1.9793	2.0283	183.7323
5.7	93.3	2.42	-1.4	-0.92	93.2829	2.5943	5	2.2349	127.8003	0.3702	0	0.3702	250.98	2.6046	-0.001	5	0.6471	1.9731	2.0474	173.2564
5.8	90	2.19	-1.47	-0.92	89.982	2.4338	5	2.22551	126.9817	0.37655	0	0.3766	237.96	2.4441	-0.001	5	0.6441	1.9454	2.0387	164.7488
5.9	86.2	1.84	-1.42	-0.9	86.1826	2.135	5	2.19806	125.6023	0.38283	0	0.3828	224.12	2.1445	-0.001	5	0.6341	1.9054	2.0119	154.5056
6	81	1.56	-1.35	-0.9	80.9835	1.9263	5	2.18633	124.2427	0.38904	0	0.389	207.16	1.9356	-0.001	5	0.6297	1.8778	1.9997	143.0268
6.1	77.7	1.42	-1.28	-0.9	77.6843	1.8279	5	2.18395	123.4532	0.39522	0	0.3952	195.56	1.8373	-0.001	6	0.6293	1.8585	1.9978	135.7495
6.2	75.6	1.48	-1.31	-0.9	75.584	1.9581	5	2.21301	123.6892	0.4014	0	0.4014	187.3	1.9685	-0.001	5	0.641	1.8614	2.0276	132.2598
6.3	74.4	1.47	-1.28	-0.9	74.3843	1.9762	5	2.22082	123.6006	0.40758	0	0.4076	181.5	1.9871	-0.001	5	0.645	1.8502	2.0371	129.3534
6.4	76.4	1.34	-1.3	-0.9	76.3841	1.7543	5	2.1773	122.9878	0.41373	0	0.4137	183.62	1.7639	-0.001	6	0.6303	1.8073	1.9979	129.7626
6.5	77	1.32	-1.33	-0.9	76.9837	1.7147	5	2.16811	122.8968	0.41988	0	0.4199	182.35	1.7241	-0.001	6	0.6282	1.7872	1.9916	129.3183
6.6	76.3	1.31	-1.24	-0.91	76.2848	1.7173	5	2.17149	122.8189	0.42602	0	0.426	178.07	1.7269	-0.001	6	0.6306	1.7747	1.997	127.2352
6.7	77.4	1.31	-1.18	-0.93	77.3856	1.6928	5	2.16271	122.8539	0.43216	0	0.4322	178.07	1.7023	-0.001	6	0.6287	1.7559	1.9914	127.7012
6.8	78.2	1.28	-1.22	-0.94	78.1851	1.6371	5	2.14968	122.7094	0.4383	0	0.4383	177.38	1.6464	-0.001	6	0.6252	1.735	1.9813	127.4825

6.9	78	1.22	-1.26	-0.95	77.9846	1.5644	5	2.1374	122.3519	0.44441	0	0.4444	174.48	1.5734	-0.001	6	0.6217	1.7148	1.9714	125.6666
7	78.2	1.37	-1.26	-0.94	78.1846	1.7523	5	2.16948	123.2066	0.45057	0	0.4506	172.52	1.7624	-0.001	5	0.6351	1.7197	2.0055	126.3385
7.1	82.8	1.62	-1.29	-0.93	82.7842	1.9569	5	2.18414	124.5725	0.4568	0	0.4568	180.23	1.9678	-0.001	5	0.6427	1.7158	2.0248	133.5015
7.2	93.9	1.93	-1.3	-0.94	93.8841	2.0557	5	2.16016	126.1605	0.46311	0	0.4631	201.73	2.0659	-0.001	5	0.6369	1.6926	2.0087	149.444
7.3	106.7	2.22	-1.22	-0.94	106.685	2.0809	5	2.12523	127.4965	0.46948	0	0.4695	226.24	2.0901	-8E-04	6	0.627	1.6645	1.9817	167.0816
7.4	110.5	2.39	-1.18	-0.94	110.486	2.1632	5	2.12706	128.1218	0.47589	0	0.4759	231.17	2.1725	-8E-04	5	0.6294	1.6535	1.9871	171.9111
7.5	105.1	2.45	-1.18	-0.93	105.086	2.3314	5	2.1657	128.181	0.4823	0	0.4823	216.88	2.3422	-8E-04	5	0.6443	1.659	2.0254	164.0027
7.6	96.6	2.38	-1.18	-0.92	96.5856	2.4641	5	2.20826	127.7632	0.48869	0	0.4887	196.64	2.4767	-9E-04	5	0.6602	1.6653	2.0663	151.239
7.7	91.4	2.22	-1.18	-0.91	91.3856	2.4293	5	2.22028	127.119	0.49504	0	0.495	183.6	2.4425	-9E-04	5	0.665	1.6572	2.0781	142.3504
7.8	89.5	2.1	-1.21	-0.91	89.4852	2.3468	5	2.2158	126.6611	0.50138	0	0.5014	177.48	2.36	-1E-03	5	0.6641	1.6422	2.075	138.0998
7.9	88	2.03	-1.32	-0.91	87.9838	2.3072	5	2.21564	126.3718	0.5077	0	0.5077	172.3	2.3206	-0.001	5	0.6649	1.6295	2.0764	134.716
8	84.5	1.95	-1.41	-0.91	84.4827	2.3082	5	2.22814	125.9786	0.51399	0	0.514	163.37	2.3223	-0.001	5	0.6702	1.6224	2.0894	128.7464
8.1	80.1	1.72	-1.46	-0.92	80.0821	2.1478	5	2.2226	124.9298	0.52024	0	0.5202	152.93	2.1618	-0.001	5	0.6684	1.6073	2.0841	120.857
8.2	75.9	1.57	-1.56	-0.91	75.8809	2.069	5	2.2282	124.1307	0.52645	0	0.5265	143.14	2.0835	-0.001	5	0.6709	1.5974	2.0898	113.7595
8.3	71.9	1.41	-1.56	-0.91	71.8809	1.9616	5	2.22952	123.2121	0.53261	0	0.5326	133.96	1.9762	-0.002	5	0.6718	1.5859	2.0914	106.9391
8.4	66.8	1.32	-1.53	-0.91	66.7813	1.9766	5	2.25533	122.5501	0.53874	0	0.5387	122.96	1.9927	-0.002	5	0.6817	1.5844	2.1166	99.18765
8.5	61.9	1.32	-1.51	-0.9	61.8815	2.1331	5	2.30207	122.3642	0.54485	0	0.5449	112.57	2.1521	-0.002	5	0.6996	1.5909	2.1626	92.22264
8.6	58.8	1.37	-1.58	-0.89	58.7807	2.3307	5	2.34452	122.5108	0.55098	0	0.551	105.68	2.3528	-0.002	5	0.7161	1.5957	2.2053	87.81257
8.7	55.2	1.33	-1.56	-0.89	55.1809	2.4103	5	2.3746	122.1399	0.55709	0	0.5571	98.053	2.4348	-0.002	5	0.7279	1.5951	2.2354	82.34618
8.8	54.3	1.26	-1.49	-0.89	54.2818	2.3212	5	2.36889	121.7042	0.56317	0	0.5632	95.386	2.3456	-0.002	5	0.7267	1.5814	2.2314	80.28285
8.9	55	1.15	-1.63	-0.88	54.9801	2.0917	5	2.33469	121.067	0.56923	0	0.5692	95.588	2.1136	-0.002	5	0.715	1.5578	2.2001	80.10718
9	55.7	1.03	-1.63	-0.86	55.6801	1.8499	5	2.29565	120.2915	0.57524	0	0.5752	95.795	1.8692	-0.002	5	0.7015	1.5335	2.1639	79.86149
9.1	55.1	0.95	-1.63	-0.85	55.0801	1.7248	5	2.27968	119.6735	0.58122	0	0.5812	93.766	1.7432	-0.002	5	0.6965	1.5178	2.1499	78.17513
9.2	50.5	0.94	-1.66	-0.88	50.4797	1.8621	5	2.33008	119.3833	0.58719	0	0.5872	84.968	1.8841	-0.002	5	0.7157	1.5242	2.1997	71.87
9.3	47.7	1	-1.63	-0.87	47.6801	2.0973	5	2.38229	119.6969	0.59318	0	0.5932	79.381	2.1237	-0.002	5	0.736	1.5311	2.2521	68.13337
9.4	46.8	1.05	-1.48	-0.84	46.7819	2.2445	5	2.4077	120.0075	0.59918	0	0.5992	77.077	2.2736	-0.002	5	0.7466	1.5289	2.2791	66.73152
9.5	47.1	1.06	-1.52	-0.86	47.0814	2.2514	5	2.40648	120.0924	0.60518	0	0.6052	76.797	2.2807	-0.002	5	0.7473	1.5182	2.2803	66.68482
9.6	49.5	0.99	-1.63	-0.86	49.4801	2.0008	5	2.35678	119.7137	0.61117	0	0.6112	79.96	2.0258	-0.002	5	0.7301	1.4929	2.2343	68.94931
9.7	52.5	0.93	-1.61	-0.87	52.4803	1.7721	5	2.30335	119.3999	0.61714	0	0.6171	84.038	1.7932	-0.002	5	0.7115	1.4676	2.1849	71.93263
9.8	54.3	0.9	-1.58	-0.87	54.2807	1.6581	5	2.27368	119.2422	0.6231	0	0.6231	86.114	1.6773	-0.002	5	0.7017	1.45	2.1583	73.53004
9.9	54.7	0.88	-1.63	-0.83	54.6801	1.6094	5	2.26304	119.0957	0.62905	0	0.6291	85.924	1.6281	-0.002	5	0.6988	1.4382	2.1499	73.46572
10	53.9	0.87	-1.63	-0.85	53.8801	1.6147	5	2.26891	118.9761	0.635	0	0.635	83.85	1.634	-0.002	5	0.7019	1.4311	2.1575	72.01166
10.1	52.6	0.71	-1.63	-0.86	52.5801	1.3503	5	2.22929	117.4295	0.64088	0	0.6409	81.044	1.367	-0.002	5	0.6878	1.4118	2.1196	69.29932
10.2	51.1	0.68	-1.63	-0.86	51.0801	1.3312	5	2.23558	117.043	0.64673	0	0.6467	77.982	1.3483	-0.002	5	0.6909	1.4052	2.1272	66.97559
10.3	47.8	0.63	-1.66	-0.86	47.7797	1.3186	5	2.25635	116.3213	0.65254	0	0.6525	72.221	1.3368	-0.003	5	0.6993	1.4022	2.1484	62.45111
10.4	44.2	0.61	-1.67	-0.82	44.1796	1.3807	5	2.29561	115.8942	0.65834	0	0.6583	66.108	1.4016	-0.003	5	0.7146	1.4037	2.1879	57.73533
10.5	44.7	0.6	-1.63	-0.78	44.6801	1.3429	5	2.28453	115.8007	0.66413	0	0.6641	66.276	1.3631	-0.003	5	0.7116	1.3929	2.1791	57.94465
10.6	42.4	0.63	-1.68	-0.78	42.3794	1.4866	5	2.32922	116.0288	0.66993	0	0.6699	62.26	1.5105	-0.003	5	0.7292	1.3955	2.2246	55.0106
10.7	39.9	0.64	-1.66	-0.79	39.8797	1.6048	5	2.37028	115.9957	0.67573	0	0.6757	58.017	1.6325	-0.003	5	0.7454	1.3969	2.2664	51.75709
10.8	38.3	0.63	-1.59	-0.8	38.2805	1.6457	5	2.39106	115.7807	0.68152	0	0.6815	55.169	1.6756	-0.003	5	0.7541	1.3934	2.2885	49.51251
10.9	37.7	0.61	-1.69	-0.8	37.6793	1.6189	5	2.39229	115.506	0.68729	0	0.6873	53.823	1.649	-0.003	5	0.7555	1.3854	2.2916	48.43433
11	38	0.56	-1.78	-0.81	37.9782	1.4745	5	2.3655	114.8995	0.69304	0	0.693	53.8	1.5019	-0.003	5	0.7465	1.3715	2.2671	48.3267
11.1	40.5	0.52	-1.78	-0.82	40.4782	1.2846	5	2.30816	114.5127	0.69876	0	0.6988	56.928	1.3072	-0.003	5	0.7261	1.3516	2.2131	50.81354
11.2	47.9	0.63	-1.74	-0.81	47.8787	1.3158	5	2.2551	116.3263	0.70458	0	0.7046	66.953	1.3355	-0.003	5	0.708	1.3336	2.1648	59.45851
11.3	58.3	0.78	-1.71	-0.82	58.2791	1.3384	5	2.19153	118.3685	0.7105	0	0.7105	81.026	1.3549	-0.002	5	0.6862	1.3143	2.1067	71.50555
11.4	79.6	1.01	-1.64	-0.8	79.5799	1.2692	5	2.07163	121.0191	0.71655	0	0.7166	110.06	1.2807	-0.002	6	0.6438	1.2852	1.9946	95.7902
11.5	90.6	1.24	-1.7	-0.8	90.5792	1.369	5	2.0503	122.836	0.72269	0	0.7227	124.34	1.38	-0.001	6	0.6375	1.2751	1.9773	108.2852
11.6	91.2	1.39	-1.53	-0.82	91.1813	1.5244	5	2.07937	123.6877	0.72888	0	0.7289	124.1	1.5367	-0.001	6	0.6495	1.2739	2.008	108.8981
11.7	86.3	1.44	-1.6	-0.82	86.2804	1.669	5	2.12366	123.8115	0.73507	0	0.7351	116.38	1.6833	-0.001	5	0.6668	1.2749	2.0528	103.0759
11.8	78.7	1.39	-1.57	-0.82	78.6808	1.7666	5	2.16985	123.3281	0.74123	0	0.7412	105.15	1.7834	-0.001	5	0.6847	1.276	2.0989	93.98605
11.9	72.8	1.27	-1.62	-0.84	72.7802	1.745	5	2.19133	122.4773	0.74736	0	0.7474	96.383	1.7631	-0.002	5	0.6933	1.2726	2.1208	86.6352
12	69	1.12	-1.63	-0.84	68.9801	1.6237	5	2.18815	121.4269	0.75343	0	0.7534	90.555	1.6416	-0.002	5	0.6928	1.2653	2.1186	81.58313
12.1	66.9	0.96	-1.63	-0.86	66.8801	1.4354	5	2.16389	120.2235	0.75944	0	0.7594	87.065	1.4519	-0.002	5	0.6844	1.2548	2.0958	78.41148
12.2	65.5	0.83	-1.63	-0.86	65.4801	1.2676	5	2.13713	119.1073	0.76539	0	0.7654	84.551	1.2826	-0.002	5	0.675	1.2444	2.0706	76.10511
12.3	64.6	0.74	-1.63	-0.86	64.5801	1.1459	5	2.11506	118.2337	0.77131	0	0.7713	82.728	1.1597	-0.002	5	0.6675	1.235	2.0502	74.47399
12.4	65.8	0.69	-1.63	-0.87	65.7801	1.049	5	2.08564	117.7667	0.77719	0	0.7772	83.638	1.0615	-0.002	6	0.6574	1.2249	2.0228	75.24729
12.5	73.2	0.73	-1.57	-0.88	73.1808	0.9975	6	2.03546	118.4391	0.78312	0	0.7831	92.448	1.0083	-0.002	6	0.6397	1.2123	1.9757	82.94855
12.6	86.2	0.84	-1.56	-0.88	86.1809	0.9747	6	1.97287	119.8649	0.78911	0	0.7891	108.21	0.9837	-0.001	6	0.6176	1.1986	1.9169	96.73097
12.7	98.5	0.99	-1.56	-0.88	98.4809	1.0053	6	1.93585	121.3925	0.79518	0	0.7952	122.85	1.0135	-0.001	6	0.6051	1.1887	1.8832	109.7406
12.8	105.3	1.09	-1.56	-0.88	105.281	1.0353	6	1.92165	122.2594	0.80129	0	0.8013	130.39	1.0433	-0.001	6	0.6008	1.1818	1.8713	116.693
12.9	105.8	1.13	-1.56	-0.86	105.781	1.0683	6	1.92884	122.5347	0.80742	0	0.8074	130.01	1.0765	-0.001	6	0.6044	1.1776	1.88	116.8227
13	99	1.05	-1.56	-0.86	98.9809	1.0608	6	1.94899	121.8354	0.81351	0	0.8135	120.67	1.0696	-0.001	6	0.6126	1.1747	1.9008	108.9879
13.1	91.7	0.97	-1.5	-0.87	91.6816	1.058	6	1.97396	121.0687	0.81956	0	0.8196	110.87	1.0676	-0.001	6	0.6227	1.1724	1.9263	100.6777
13.2	84.8	0.89	-1.59	-0.88	84.7805	1.0498	6	1.99835	120.248	0.82558	0	0.8256	101.69	1.0601	-0.001	6	0.6325	1.1699	1.9514	92.82809
13.3	79.4	0.8	-1.69	-0.86	79.3793	1.0078	6	2.01001	119.3074	0.83154	0	0.8315	94.46	1.0185	-0.002	6	0.6375	1.1661	1.9639	86.5604
13.4	77.8	0.75	-1.71	-0.86	77.7791	0.9643	6	2.00545	118.7855	0.83748	0	0.8375	91.873	0.9748	-0.002	6	0.6366	1.1605	1.9607	84.38816
13.5	77.4	0.74	-1.71	-0.86	77.3791	0.9563	6	2.00509	118.6747	0.84342	0	0.8434	90.745	0.9669	-0.002	6	0.6373	1.1555	1.9619	83.57991
13.6	78	0.74	-1.66	-0.86	77.9797	0.949	6	2.00039	118.6935	0.84935	0	0.8494	90.811	0.9594	-0.002	6	0.6364	1.1501	1.9587	83.83707
13.7	79.4	0.73	-1.63	-0.86	79.3801	0.9196	6	1.98605	118.6374	0.85528	0	0.8553	91.812	0.9296	-0.001	6	0.6319	1.1439	1.9461	84.8933
13.8	79.1	0.72	-1.63	-0.88	79.0801	0.9105	6	1.98478	118.5272	0.86121	0	0.8612	90.825	0.9205	-0.002	6	0.6322	1.139	1.9463	84.20062
13.9	75.7	0.71	-1.63	-0.86	75.6801	0.9382	6	2.00787	118.3177	0.86712	0	0.8671	86.277	0.949	-0.002	6	0.642	1.1363	1.9705	80.34255

14	71.4	0.65	-1.63	-0.87	71.3801	0.9106	6	2.02078	117.529	0.873	0	0.873	80.764	0.9219	-0.002	6	0.6476	1.1326	1.9846	75.47247
14.1	67.2	0.58	-1.69	-0.88	67.1793	0.8634	6	2.02895	116.5474	0.87883	0	0.8788	75.442	0.8748	-0.002	6	0.6515	1.1286	1.994	70.71501
14.2	63.3	0.55	-1.65	-0.88	63.2798	0.8692	6	2.05199	116.0129	0.88463	0	0.8846	70.533	0.8815	-0.002	6	0.661	1.1257	2.0183	66.37807
14.3	58.3	0.52	-1.56	-0.88	58.2809	0.8922	5	2.08793	115.4018	0.8904	0	0.8904	64.455	0.9061	-0.002	6	0.6754	1.1236	2.0555	60.94373
14.4	56.8	0.5	-1.56	-0.88	56.7809	0.8806	5	2.09414	115.0512	0.89615	0	0.8962	62.361	0.8947	-0.002	5	0.6786	1.1193	2.0632	59.1186
14.5	55.9	0.48	-1.56	-0.88	55.8809	0.859	5	2.09394	114.7135	0.90189	0	0.9019	60.96	0.8731	-0.002	5	0.6794	1.1146	2.0646	57.91636
14.6	54.2	0.47	-1.56	-0.88	54.1809	0.8675	5	2.1075	114.4841	0.90761	0	0.9076	58.696	0.8822	-0.002	5	0.6854	1.1109	2.0797	55.93031
14.7	51.8	0.45	-1.56	-0.88	51.7809	0.8691	5	2.1244	114.0555	0.91331	0	0.9133	55.696	0.8847	-0.002	5	0.6927	1.1073	2.0982	53.23295
14.8	48.5	0.44	-1.56	-0.88	48.4809	0.9076	5	2.15864	113.7304	0.919	0	0.919	51.754	0.9251	-0.002	5	0.7066	1.1047	2.1341	49.65741
14.9	44.7	0.36	-1.56	-0.88	44.6809	0.8057	5	2.16105	112.063	0.9246	0	0.9246	47.324	0.8227	-0.003	5	0.7085	1.1003	2.1383	45.49974
15	41.8	0.37	-1.56	-0.88	41.7809	0.8856	5	2.2074	112.0998	0.93021	0	0.9302	43.916	0.9057	-0.003	5	0.7271	1.0982	2.1865	42.39847
15.1	39.3	0.39	-1.54	-0.88	39.2812	0.9928	5	2.25657	112.3346	0.93583	0	0.9358	40.975	1.0171	-0.003	5	0.7468	1.0961	2.2376	39.72051
15.2	36	0.41	-1.41	-0.87	35.9827	1.1394	5	2.32109	112.4866	0.94145	0	0.9415	37.221	1.1701	-0.003	5	0.7725	1.0944	2.3044	36.2446
15.3	37.6	0.44	-1.26	-0.86	37.5846	1.1707	5	2.31185	113.1095	0.94711	0	0.9471	38.684	1.201	-0.002	5	0.7698	1.0891	2.2966	37.70924
15.4	39.5	0.53	-1.29	-0.87	39.4842	1.3423	5	2.32799	114.5915	0.95283	0	0.9528	40.439	1.3755	-0.002	5	0.7767	1.0848	2.3141	39.50348
15.5	44.1	0.68	-1.33	-0.87	44.0837	1.5425	5	2.3252	116.6837	0.95867	0	0.9587	44.984	1.5768	-0.002	5	0.7763	1.0796	2.3122	44.002
15.6	52.3	0.86	-1.33	-0.87	52.2837	1.6449	5	2.28413	118.8181	0.96461	0	0.9646	53.202	1.6758	-0.002	5	0.7612	1.073	2.2718	52.03935
15.7	61	1.09	-1.33	-0.87	60.9837	1.7874	5	2.25592	120.9277	0.97066	0	0.9707	61.827	1.8163	-0.002	5	0.7511	1.0669	2.2445	60.5137
15.8	65.5	1.38	-1.37	-0.86	65.4832	2.1074	5	2.28039	122.8274	0.9768	0	0.9768	66.039	2.1393	-0.002	5	0.7611	1.0628	2.2702	64.7894
15.9	65	1.61	-1.41	-0.86	64.9827	2.4776	5	2.33095	123.9366	0.98299	0	0.983	65.107	2.5156	-0.002	5	0.7813	1.0592	2.3224	64.06677
16	64.4	1.73	-1.41	-0.87	64.3827	2.6871	5	2.35837	124.44	0.98922	0	0.9892	64.085	2.729	-0.002	5	0.7926	1.0548	2.3514	63.19611
16.1	68.6	1.74	-1.41	-0.88	68.5827	2.5371	5	2.32131	124.6363	0.99545	0	0.9955	67.896	2.5745	-0.002	5	0.7793	1.0487	2.3156	66.98768
16.2	75	1.62	-1.33	-0.89	74.9837	2.1605	5	2.24491	124.3311	1.00166	0	1.0017	73.859	2.1897	-0.001	5	0.7509	1.042	2.2403	72.85737
16.3	76.4	1.43	-1.26	-0.9	76.3846	1.8721	5	2.19637	123.4634	1.00784	0	1.0078	74.791	1.8971	-0.001	5	0.7332	1.0363	2.1932	73.82567
16.4	76	1.25	-1.28	-0.9	75.9843	1.6451	5	2.16032	122.4662	1.01396	0	1.014	73.938	1.6673	-0.001	5	0.7204	1.0312	2.1586	73.06215
16.5	76.9	1.2	-1.33	-0.9	76.8837	1.5608	5	2.14137	122.1963	1.02007	0	1.0201	74.371	1.5818	-0.001	5	0.7139	1.0265	2.141	73.59616
16.6	78.7	1.26	-1.33	-0.9	78.6837	1.6014	5	2.14122	122.6097	1.0262	0	1.0262	75.675	1.6225	-0.001	5	0.7147	1.0221	2.1422	75.01648
16.7	79.9	1.35	-1.37	-0.91	79.8832	1.69	5	2.15199	123.1514	1.03236	0	1.0324	76.379	1.7121	-0.001	5	0.7196	1.0179	2.1543	75.85344
16.8	80.5	1.43	-1.37	-0.92	80.4832	1.7768	5	2.1643	123.5909	1.03854	0	1.0385	76.497	1.8	-0.001	5	0.7251	1.0136	2.168	76.10501
16.9	81.4	1.51	-1.33	-0.92	81.3837	1.8554	5	2.17359	124.0163	1.04474	0	1.0447	76.899	1.8795	-0.001	5	0.7294	1.0093	2.1786	76.63446
17	78	1.49	-1.33	-0.92	77.9837	1.9107	5	2.19582	123.8147	1.05093	0	1.0509	73.204	1.9368	-0.001	5	0.7388	1.005	2.2026	73.07445
17.1	86.1	1.34	-1.33	-0.92	86.0837	1.5566	5	2.10396	123.2793	1.05709	0	1.0571	80.434	1.576	-0.001	5	0.7044	1.0007	2.1113	80.4115
17.2	93	1.43	-1.33	-0.92	92.9837	1.5379	5	2.07569	123.943	1.06329	0	1.0633	86.449	1.5557	-0.001	5	0.6942	0.9966	2.0838	86.57825
17.3	108.6	1.59	-1.26	-0.92	108.585	1.4643	6	2.01195	125.0974	1.06955	0	1.0696	100.52	1.4789	-8E-04	6	0.6703	0.9928	2.0203	100.881
17.4	124.8	1.79	-1.24	-0.9	124.785	1.4345	6	1.96232	126.3035	1.07586	0	1.0759	114.99	1.4469	-7E-04	6	0.6518	0.9892	1.971	115.6541
17.5	132.4	2	-1.15	-0.9	132.386	1.5107	6	1.9601	127.2594	1.08222	0	1.0822	121.33	1.5232	-6E-04	6	0.6516	0.9854	1.9696	122.2841
17.6	138.2	2.13	-1.07	-0.9	138.187	1.5414	6	1.95338	127.8248	1.08862	0	1.0886	125.94	1.5536	-6E-04	6	0.6497	0.9817	1.9638	127.1986
17.7	140.7	2.15	-1.03	-0.89	140.687	1.5282	6	1.9453	127.9369	1.09501	0	1.095	127.48	1.5402	-5E-04	6	0.6473	0.9781	1.9568	129.0311
17.8	141	2.18	-0.99	-0.88	140.988	1.5462	6	1.94834	128.0435	1.10141	0	1.1014	127.01	1.5584	-5E-04	6	0.6492	0.9743	1.961	128.8061
17.9	140.9	2.19	-0.96	-0.88	140.888	1.5544	6	1.95021	128.0752	1.10782	0.00312	1.1047	126.53	1.5667	-5E-04	6	0.6503	0.9724	1.9635	128.4538
18	141.1	2.17	-0.96	-0.88	141.088	1.538	6	1.94646	128.0116	1.11422	0.00624	1.108	126.33	1.5503	-5E-04	6	0.6493	0.9705	1.9603	128.3901
18.1	140.5	2.06	-0.96	-0.88	140.488	1.4663	6	1.93281	127.6205	1.1206	0.00936	1.1112	125.42	1.4781	-6E-04	6	0.6445	0.9689	1.9473	127.6202
18.2	140.4	1.96	-0.96	-0.88	140.388	1.3961	6	1.9178	127.2547	1.12696	0.01248	1.1145	124.96	1.4074	-6E-04	6	0.6391	0.9674	1.9329	127.3188
18.3	141.7	1.85	-1.1	-0.88	141.687	1.3057	6	1.89438	126.8545	1.13331	0.0156	1.1177	125.75	1.3162	-7E-04	6	0.6305	0.966	1.91	128.3234
18.4	143.2	1.76	-1.18	-0.88	143.186	1.2292	6	1.8727	126.5153	1.13963	0.01872	1.1209	126.72	1.239	-7E-04	6	0.6226	0.9647	1.8888	129.5113
18.5	144.3	1.68	-1.18	-0.89	144.286	1.1644	6	1.85393	126.1936	1.14594	0.02184	1.1241	127.34	1.1737	-8E-04	6	0.6158	0.9634	1.8705	130.3315
18.6	145.1	1.64	-1.12	-0.88	145.086	1.1304	6	1.84329	126.0307	1.15224	0.02496	1.1273	127.68	1.1394	-7E-04	6	0.6121	0.962	1.8604	130.8576
18.7	145.2	1.62	-1.11	-0.88	145.186	1.1158	6	1.83919	125.9426	1.15854	0.02808	1.1305	127.41	1.1248	-8E-04	6	0.6109	0.9604	1.8569	130.7279
18.8	144.6	1.6	-1.11	-0.89	144.586	1.1066	6	1.83802	125.8416	1.16483	0.0312	1.1336	126.52	1.1156	-8E-04	6	0.6109	0.9588	1.8563	129.9555
18.9	144.1	1.57	-1.11	-0.88	144.086	1.0896	6	1.8345	125.6947	1.17112	0.03432	1.1368	125.72	1.0986	-8E-04	6	0.6099	0.9572	1.8534	129.2853
19	143.9	1.55	-1.11	-0.88	143.886	1.0772	6	1.83154	125.5975	1.1774	0.03744	1.14	125.19	1.0861	-8E-04	6	0.6091	0.9556	1.851	128.8875
19.1	142.8	1.55	-1.11	-0.9	142.786	1.0855	6	1.83625	125.5788	1.18368	0.04056	1.1431	123.87	1.0946	-9E-04	6	0.6113	0.9539	1.8564	127.6513
19.2	142.6	1.55	-1.11	-0.9	142.586	1.0871	6	1.83711	125.5754	1.18995	0.04368	1.1463	123.35	1.0962	-9E-04	6	0.612	0.9522	1.8578	127.2433
19.3	142.2	1.57	-1.04	-0.88	142.187	1.1042	6	1.84265	125.6623	1.19624	0.0468	1.1494	122.66	1.1136	-9E-04	6	0.6145	0.9504	1.864	126.6385
19.4	138.3	1.64	-1.03	-0.88	138.287	1.1859	6	1.87276	125.9137	1.20253	0.04992	1.1526	118.93	1.1963	-9E-04	6	0.6265	0.9478	1.895	122.7956
19.5	129.5	1.68	-1.03	-0.88	129.487	1.2974	6	1.92038	125.9296	1.20883	0.05304	1.1558	110.99	1.3097	-1E-03	6	0.6453	0.9446	1.944	114.5187
19.6	115	1.71	-1.03	-0.9	114.987	1.4871	6	1.99866	125.7695	1.21512	0.05616	1.159	98.168	1.503	-0.001	5	0.6761	0.9403	2.0245	101.1054
19.7	100.2	1.67	-1.1	-0.9	100.187	1.6669	5	2.07613	125.2602	1.22138	0.05928	1.1621	85.161	1.6875	-0.001	5	0.7068	0.9359	2.1045	87.53423
19.8	90.8	1.56	-1.05	-0.91	90.7872	1.7183	5	2.11617	124.5214	1.22761	0.0624	1.1652	76.862	1.7419	-0.002	5	0.723	0.9327	2.1466	78.94226
19.9	88.8	1.48	-1.11	-0.9	88.7864	1.6669	5	2.11419	124.0818	1.23381	0.06552	1.1683	74.941	1.6904	-0.002	5	0.7227	0.9309	2.1456	77.02764
20	86.9	1.55	-1.11	-0.92	86.8864	1.7839	5	2.14121	124.3672	1.24003	0.06864	1.1714	73.115	1.8098	-0.002	5	0.7336	0.9281	2.1737	75.12361
20.1	80.6	1.4	-1.11	-0.94	80.5864	1.7373	5	2.15727	123.4389	1.2462	0.07176	1.1744	67.556	1.7646	-0.002	5	0.7406	0.9257	2.1916	69.40891
20.2	70.8	1.48	-1.06	-0.94	70.787	2.0908	5	2.25326	123.5293	1.25238	0.07488	1.1775	59.053	2.1284	-0.002	5	0.7785	0.9202	2.2907	60.46833
20.3	62.4	1.56	-0.98	-0.94	62.388	2.5005	5	2.3465	123.6064	1.25856	0.078	1.1806	51.78	2.552	-0.002	5	0.8154	0.9146	2.3872	52.83774
20.4	54.9	1.64	-1.03	-0.97	54.8874	2.9879	5	2.44019	123.6599	1.26474	0.08112	1.1836	45.304	3.0584	-0.003	4	0.8526	0.9089	2.4845	46.05889
20.5	50.1	1.74	-1.05	-1.01	50.0872	3.474	4	2.51432	123.8698	1.27093	0.08424	1.1867	41.136	3.5644	-0.003	4	0.8821	0.9038	2.5617	41.69637
20.6	57.6	1.78	-1.09	-1	57.5867	3.091	4	2.43555	124.3764	1.27715	0.08736	1.1898	47.327	3.1611	-0.003	4	0.8513	0.905	2.4804	48.15997
20.7	68.2	1.68	-1.01	-1.02	68.1876	2.4638	5	2.31422	124.3655	1.28337	0.09048	1.1929	56.086	2.5111	-0.002	5	0.8041	0.9081	2.3561	57.41881
20.8	82.3	1.64	-0.98	-1.02	82.288	1.993	5	2.19152	124.6476	1.2896	0.0936	1.196	67.724	2.0247	-0.002	5	0.7564	0.9115	2.2304	69.77613
20.9	101.5	1.67	-1.03	-1.04	101.487	1.6455	5	2.0682	125.2917	1.29587	0.09672	1.1992	83.552	1.6668	-0.002	5	0.7083	0.9152	2.104	86.65782
21	117.6	1.74	-1.03	-1.05	117.587	1.4798	6	1.9902	125.9513	1.30217	0.09984	1.2023	96.717	1.4963	-0.002	6	0.6781	0.917	2.0241	100.7781

21.1	125.3	1.8	-0.99	-1.06	125.288	1.4367	6	1.96155	126.354	1.30848	0.10296	1.2055	102.84	1.4519	-0.001	6	0.6672	0.9167	1.9951	107.4056
21.2	128.6	1.92	-0.96	-1.08	128.588	1.4931	6	1.96536	126.8897	1.31483	0.10608	1.2088	105.29	1.5086	-0.001	6	0.6689	0.9148	1.9991	110.0382
21.3	129.6	2.11	-0.99	-1.1	129.588	1.6282	6	1.98989	127.599	1.32121	0.1092	1.212	105.83	1.645	-0.001	5	0.6786	0.912	2.0242	110.5516
21.4	130.2	2.25	-1.03	-1.1	130.187	1.7283	6	2.00722	128.0804	1.32761	0.11232	1.2153	106.03	1.7461	-0.001	5	0.6855	0.9094	2.0421	110.752
21.5	135.8	2.29	-1.03	-1.11	135.787	1.6865	6	1.98693	128.312	1.33403	0.11544	1.2186	110.34	1.7032	-0.001	5	0.6779	0.9087	2.0217	115.4691
21.6	143.8	2.31	-1.03	-1.11	143.787	1.6065	6	1.95454	128.5153	1.34045	0.11856	1.2219	116.58	1.6217	-0.001	6	0.6656	0.9087	1.989	122.3261
21.7	144.8	2.32	-1.15	-1.11	144.786	1.6024	6	1.95166	128.5637	1.34688	0.12168	1.2252	117.07	1.6174	-0.001	6	0.6649	0.9071	1.9866	122.9702
21.8	137.6	2.31	-1.02	-1.13	137.588	1.6789	6	1.9816	128.4078	1.3533	0.1248	1.2285	110.89	1.6956	-0.001	5	0.677	0.9039	2.018	116.3741
21.9	118.3	2.3	-0.96	-1.13	118.288	1.9444	5	2.07301	128.0074	1.3597	0.12792	1.2318	94.926	1.967	-0.002	5	0.7132	0.8973	2.1127	99.15512
22	90.3	2.28	-0.96	-1.12	90.2883	2.5253	5	2.23609	127.2847	1.36607	0.13104	1.235	72	2.564	-0.002	5	0.7778	0.8867	2.2817	74.51717
22.1	63.6	2.17	-0.96	-1.13	63.5883	3.4126	4	2.43584	126.0678	1.37237	0.13416	1.2382	50.247	3.4879	-0.003	4	0.8573	0.8739	2.4902	51.38612
22.2	42.9	1.83	-0.96	-1.15	42.8883	4.2669	4	2.62501	123.8603	1.37856	0.13728	1.2413	33.441	4.4086	-0.005	4	0.9341	0.8615	2.6914	33.79463
22.3	31.2	1.43	-0.96	-1.13	31.1883	4.5851	3	2.7462	121.2787	1.38463	0.1404	1.2442	23.954	4.7981	-0.007	3	0.9851	0.8525	2.825	24.01138
22.4	24.7	1.14	-0.95	-1.13	24.6884	4.6176	3	2.82304	119.0503	1.39058	0.14352	1.2471	18.682	4.8932	-0.009	3	1	0.8485	2.9121	18.68218
22.5	21.3	0.91	-0.88	-1.15	21.2892	4.2745	3	2.84937	117.0402	1.39643	0.14664	1.2498	15.917	4.5745	-0.011	3	1	0.8466	2.9462	15.91689
22.6	21	0.67	-0.79	-1.13	20.9903	3.192	4	2.77348	114.7655	1.40217	0.14976	1.2524	15.64	3.4204	-0.011	3	1	0.8449	2.8733	15.64037
22.7	21.1	0.5	-0.73	-1.14	21.0911	2.3707	4	2.6934	112.6357	1.4078	0.15288	1.2549	15.685	2.5402	-0.01	4	0.9737	0.847	2.7937	15.75534
22.8	21.3	0.45	-0.72	-1.15	21.2912	2.1136	4	2.66084	111.8879	1.4134	0.156	1.2574	15.809	2.2638	-0.01	4	0.9615	0.8471	2.7613	15.91406
22.9	21.8	0.47	-0.66	-1.15	21.7919	2.1568	4	2.65775	112.2627	1.41901	0.15912	1.2599	16.17	2.307	-0.01	4	0.9603	0.8457	2.7579	16.28283
23	22.2	0.49	-0.62	-1.15	22.1924	2.208	4	2.65732	112.6121	1.42464	0.16224	1.2624	16.451	2.3594	-0.01	4	0.9602	0.8441	2.7573	16.56695
23.1	21.4	0.43	-0.48	-1.16	21.3941	2.0099	4	2.6465	111.567	1.43022	0.16536	1.2649	15.784	2.1539	-0.01	4	0.9573	0.843	2.7493	15.90435
23.2	20.2	0.45	-0.43	-1.16	20.1947	2.2283	4	2.69287	111.7589	1.43581	0.16848	1.2673	14.802	2.3989	-0.011	4	0.9767	0.8384	2.8	14.86431
23.3	19.4	0.49	-0.4	-1.16	19.3951	2.5264	4	2.7391	112.2835	1.44142	0.1716	1.2698	14.139	2.7292	-0.011	4	0.9959	0.8339	2.8498	14.14937
23.4	20.8	0.55	-0.4	-1.16	20.7951	2.6449	4	2.72671	113.2987	1.44709	0.17472	1.2724	15.206	2.8427	-0.011	4	0.9902	0.8331	2.8342	15.23387
23.5	23.8	0.65	-0.27	-1.15	23.7967	2.7315	4	2.6888	114.8498	1.45283	0.17784	1.275	17.525	2.9091	-0.009	4	0.9731	0.8341	2.7896	17.61286
23.6	29.7	0.78	-0.2	-1.14	29.6976	2.6265	4	2.60293	116.7242	1.45866	0.18096	1.2777	22.101	2.7622	-0.007	4	0.9367	0.8381	2.6937	22.36668
23.7	37.4	0.95	0.32	-1.13	37.4039	2.5398	4	2.51646	118.7295	1.4646	0.18408	1.2805	28.066	2.6433	-0.004	4	0.9005	0.8421	2.5983	28.60394
23.8	46.2	1.21	0.29	-1.13	46.2036	2.6189	5	2.45597	121.0149	1.47065	0.1872	1.2835	34.854	2.7049	-0.004	4	0.875	0.8446	2.5309	35.70498
23.9	50.4	1.42	-0.4	-1.13	50.3951	2.8177	5	2.44956	122.3977	1.47677	0.19032	1.2865	38.026	2.9028	-0.004	4	0.8719	0.8434	2.5224	38.98956
24	55.6	1.48	-1.86	-1.13	55.5772	2.663	5	2.40176	122.9393	1.48292	0.19344	1.2895	41.951	2.736	-0.006	4	0.8529	0.8448	2.4722	43.18851
24.1	55.7	1.44	-2.86	-1.15	55.665	2.5869	5	2.39265	122.7426	1.48906	0.19656	1.2925	41.916	2.658	-0.007	4	0.8499	0.8436	2.4638	43.19405
24.2	59.2	1.36	-3.21	-1.19	59.1607	2.2988	5	2.33841	122.473	1.49518	0.19968	1.2955	44.512	2.3584	-0.007	5	0.8289	0.8455	2.4083	46.08103
24.3	95.1	1.29	-3.14	-1.21	95.0616	1.357	6	2.03208	123.2431	1.50134	0.2028	1.2985	72.05	1.3788	-0.005	5	0.7075	0.8651	2.0892	76.49677
24.4	142	1.32	-3.29	-1.19	141.96	0.9298	6	1.79284	124.3893	1.50756	0.20592	1.3016	107.9	0.9398	-0.003	6	0.6132	0.8807	1.841	116.9053
24.5	168.3	1.37	-3.34	-1.21	168.259	0.8142	6	1.69935	125.0759	1.51381	0.20904	1.3048	127.8	0.8216	-0.003	6	0.5763	0.8863	1.7444	139.6624
24.6	187.2	1.38	-4.12	-1.23	187.15	0.7374	6	1.63621	125.3887	1.52008	0.21216	1.3079	141.93	0.7434	-0.003	6	0.5517	0.8896	1.6795	156.0745
24.7	201.8	1.47	-4.68	-1.25	201.743	0.7287	6	1.60851	126.0341	1.52639	0.21528	1.3111	152.71	0.7342	-0.003	6	0.5409	0.8905	1.6508	168.5028
24.8	214.1	1.6	-5.16	-1.26	214.037	0.7475	6	1.59719	126.7984	1.53273	0.2184	1.3143	161.68	0.7529	-0.003	6	0.5365	0.8902	1.6388	178.778
24.9	224.7	1.72	-5.35	-1.28	224.635	0.7657	6	1.58918	127.4454	1.5391	0.22152	1.3176	169.32	0.771	-0.003	6	0.5334	0.8896	1.6303	187.5659
25	233.9	1.81	-5.46	-1.3	233.833	0.7741	6	1.58	127.9165	1.54549	0.22464	1.3209	175.86	0.7792	-0.003	6	0.53	0.8891	1.6208	195.1855
25.1	242.3	1.93	-5.66	-1.31	242.231	0.7968	6	1.57802	128.4723	1.55192	0.22776	1.3242	181.76	0.8019	-0.003	6	0.5293	0.8881	1.6187	201.9994
25.2	250.2	2.11	-6.06	-1.32	250.126	0.8436	6	1.58607	129.2029	1.55838	0.23088	1.3275	187.25	0.8489	-0.003	6	0.5325	0.8862	1.6266	208.1917
25.3	256.1	2.25	-6.62	-1.34	256.019	0.8788	6	1.59206	129.7298	1.56486	0.234	1.3309	191.19	0.8843	-0.003	6	0.5349	0.8845	1.6326	212.715
25.4	257	2.18	-7.18	-1.36	256.912	0.8485	6	1.57991	129.507	1.57134	0.23712	1.3342	191.38	0.8538	-0.003	6	0.5306	0.8842	1.6208	213.3836
25.5	255.4	1.71	-7.77	-1.37	255.305	0.6698	6	1.50883	127.7149	1.57772	0.24024	1.3375	189.7	0.674	-0.003	6	0.5038	0.8887	1.55	213.0958
25.6	257.7	1.88	-8.37	-1.38	257.598	0.7298	6	1.53216	128.4302	1.58415	0.24336	1.3408	190.94	0.7343	-0.003	6	0.513	0.8856	1.5737	214.2825
25.7	266.3	1.98	-8.88	-1.39	266.191	0.7438	6	1.528	128.8895	1.59059	0.24648	1.3441	196.86	0.7483	-0.003	6	0.5114	0.8848	1.5693	221.2686
25.8	265.8	2.03	-7.98	-1.43	265.702	0.764	6	1.53689	129.0675	1.59704	0.2496	1.3474	196	0.7686	-0.003	6	0.5152	0.8829	1.5787	220.3755
25.9	277.1	2.06	-8.9	-1.46	276.991	0.7437	6	1.51591	129.2763	1.60351	0.25272	1.3508	203.87	0.748	-0.003	6	0.5072	0.8835	1.5573	229.9457
26	285.4	2.11	-9.81	-1.46	285.28	0.7396	6	1.50533	129.5237	1.60998	0.25584	1.3541	209.48	0.7438	-0.003	6	0.5032	0.8833	1.5465	236.794
26.1	292.1	2.2	-10.46	-1.48	291.972	0.7535	6	1.50427	129.8859	1.61648	0.25896	1.3575	213.89	0.7577	-0.003	6	0.503	0.8822	1.5454	242.0868
26.2	298.3	2.02	-11.04	-1.5	298.165	0.6775	6	1.46456	129.3125	1.62294	0.26208	1.3609	217.91	0.6812	-0.004	6	0.4879	0.8845	1.5055	247.8751
26.3	295.5	2.08	-11.44	-1.51	295.36	0.7042	6	1.47951	129.5036	1.62942	0.2652	1.3642	215.31	0.7081	-0.004	6	0.494	0.882	1.5212	244.8498
26.4	278.9	2.18	-11.67	-1.52	278.757	0.782	6	1.52981	129.7061	1.6359	0.26832	1.3676	202.64	0.7867	-0.004	6	0.5141	0.8764	1.5733	229.542
26.5	256.6	2.17	-11.66	-1.54	256.457	0.8461	6	1.57955	129.4691	1.64238	0.27144	1.3709	185.87	0.8516	-0.004	6	0.5341	0.8708	1.6254	209.7102
26.6	240.7	1.98	-11.57	-1.57	240.558	0.8231	6	1.59019	128.6425	1.64881	0.27456	1.3743	173.85	0.8288	-0.005	6	0.539	0.8686	1.6378	196.1153
26.7	232.5	1.77	-11.85	-1.58	232.355	0.7618	6	1.5771	127.7375	1.6552	0.27768	1.3775	167.48	0.7672	-0.005	6	0.5346	0.8685	1.6259	189.3536
26.8	227.5	1.59	-12	-1.59	227.353	0.6994	6	1.55828	126.8997	1.66154	0.2808	1.3807	163.46	0.7045	-0.005	6	0.5279	0.8689	1.6079	185.3421
26.9	222.4	1.48	-12.04	-1.61	222.253	0.6659	6	1.55109	126.3198	1.66786	0.28392	1.3839	159.39	0.6709	-0.005	6	0.5256	0.8684	1.6016	181.0363
27	216.2	1.57	-11.88	-1.62	216.055	0.7267	6	1.58582	126.6828	1.67419	0.28704	1.3872	154.55	0.7323	-0.005	6	0.5395	0.8641	1.6376	175.0717
27.1	208.4	1.85	-11.63	-1.63	208.258	0.8883	6	1.65782	127.7939	1.68058	0.29016	1.3904	148.57	0.8956	-0.005	6	0.5677	0.8564	1.7112	167.1916
27.2	195.9	1.9	-11.35	-1.64	195.761	0.9706	6	1.70401	127.8381	1.68697	0.29328	1.3937	139.25	0.979	-0.006	6	0.5863	0.8509	1.7595	156.0629
27.3	180.9	1.8	-11.22	-1.64	180.763	0.9958	6	1.73641	127.2481	1.69334	0.2964	1.3969	128.19	1.0052	-0.006	6	0.5997	0.8465	1.7945	143.264
27.4	169.4	1.91	-11.08	-1.62	169.264	1.1284	6	1.79495	127.5218	1.69971	0.29952	1.4002	119.67	1.1399	-0.007	6	0.6231	0.8398	1.8554	132.9994
27.5	166.2	1.94	-11.05	-1.62	166.065	1.1682	6	1.81147	127.5893	1.70609	0.30264	1.4035	117.11	1.1804	-0.007	6	0.6299	0.837	1.873	130.0139
27.6	173.9	1.89	-11.05	-1.62	173.765	1.0877	6	1.77559	127.5088	1.71247	0.30576	1.4067	122.31	1.0985	-0.006	6	0.6161	0.8391	1.8363	136.4371
27.7	195.1	1.79	-11.12	-1.62	194.964	0.9181	6	1.68827	127.3918	1.71884	0.30888	1.41	137.06	0.9263	-0.006	6	0.582	0.8462	1.7462	154.5337
27.8	208	1.59	-11.19	-1.62	207.863	0.7649	6	1.6133	126.6811	1.72517	0.312	1.4132	145.87	0.7713	-0.005	6	0.553	0.8521	1.6698	166.0113
27.9	218.1	1.37	-11.12	-1.62	217.964	0.6285	6	1.54068	125.7072	1.73146	0.31512	1.4163	152.67	0.6336	-0.005	6	0.5251	0.858	1.5961	175.3479
28	223.4	1.3	-11.05	-1.62	223.265	0.5823	6	1.511	125.3821	1.73773	0.31824	1.4195	156.06	0.5868	-0.005	6	0.5138	0.8599	1.5661	180.0275
28.1	223.5	1.31	-10.82	-1.6	223.368	0.5865	6	1.51289	125.4392	1.744	0.32136	1.4226	155.78	0.5911	-0.005	6	0.5148	0.8587	1.5684	179.8457

28.2	220.7	1.32	-10.82	-1.62	220.568	0.5985	6	1.52278	125.4641	1.75027	0.32448	1.4258	153.47	0.6032	-0.005	6	0.519	0.8566	1.5791	177.1431
28.3	217.2	1.38	-10.55	-1.62	217.071	0.6357	6	1.54528	125.7504	1.75656	0.3276	1.429	150.68	0.6409	-0.005	6	0.5281	0.8533	1.6025	173.6317
28.4	216.4	1.47	-8.08	-1.63	216.301	0.6796	6	1.56577	126.204	1.76287	0.33072	1.4322	149.8	0.6852	-0.004	6	0.5363	0.8502	1.6237	172.3737
28.5	216.1	1.5	-5.01	-1.65	216.039	0.6943	6	1.57242	126.3489	1.76919	0.33384	1.4354	149.28	0.7001	-0.003	6	0.5392	0.8484	1.6309	171.8009
28.6	216	1.49	-3.11	-1.64	215.962	0.6899	6	1.57068	126.2991	1.7755	0.33696	1.4385	148.89	0.6957	-0.003	6	0.5389	0.8475	1.6296	171.5466
28.7	216.3	1.48	-2.77	-1.66	216.266	0.6843	6	1.56785	126.2532	1.78181	0.34008	1.4417	148.77	0.69	-0.003	6	0.5381	0.8467	1.6271	171.6214
28.8	212.1	1.45	-2.76	-1.66	212.066	0.6838	6	1.5739	126.0556	1.78812	0.3432	1.4449	145.53	0.6896	-0.003	6	0.5409	0.8449	1.6341	167.9081
28.9	204.9	1.43	-2.25	-1.66	204.872	0.698	6	1.59103	125.8698	1.79441	0.34632	1.4481	140.24	0.7042	-0.003	6	0.5481	0.842	1.6527	161.5997
29	198.5	1.41	-1.03	-1.68	198.487	0.7104	6	1.60636	125.6895	1.80069	0.34944	1.4513	135.53	0.7169	-0.002	6	0.5547	0.8393	1.6694	156.0052
29.1	193.8	1.43	-0.08	-1.68	193.799	0.7379	6	1.62511	125.7342	1.80698	0.35256	1.4544	132.01	0.7448	-0.002	6	0.5624	0.8362	1.6894	151.723
29.2	191.8	1.01	0.07	-1.69	191.801	0.5266	6	1.53445	123.1647	1.81314	0.35568	1.4575	130.36	0.5316	-0.002	6	0.5281	0.8444	1.5988	151.6211
29.3	192.8	1.1	0.1	-1.7	192.801	0.5705	6	1.55429	123.8019	1.81933	0.3588	1.4605	130.76	0.576	-0.002	6	0.5359	0.8414	1.6191	151.8594
29.4	196.5	1.22	0.25	-1.7	196.503	0.6209	6	1.57129	124.6059	1.82556	0.36192	1.4636	133.01	0.6267	-0.002	6	0.5426	0.8386	1.6362	154.2889
29.5	201.9	1.33	0.33	-1.71	201.904	0.6587	6	1.5791	125.3037	1.83182	0.36504	1.4668	136.4	0.6648	-0.002	6	0.5456	0.8368	1.6438	158.2229
29.6	210.1	1.41	-0.27	-1.72	210.097	0.6711	6	1.57151	125.8281	1.83812	0.36816	1.47	141.68	0.677	-0.002	6	0.5426	0.8366	1.6355	164.6652
29.7	216.2	1.54	-0.98	-1.72	216.188	0.7123	6	1.57973	126.5431	1.84444	0.37128	1.4732	145.5	0.7185	-0.002	6	0.5458	0.8348	1.6434	169.0981
29.8	216.2	1.47	-1.34	-1.72	216.184	0.68	6	1.5661	126.2027	1.85075	0.3744	1.4764	145.18	0.6859	-0.002	6	0.5409	0.8351	1.6302	169.1664
29.9	208	1.33	-1.41	-1.7	207.983	0.6395	6	1.56092	125.3761	1.85702	0.37752	1.4795	139.32	0.6452	-0.002	6	0.5396	0.8345	1.6264	162.5703
30	194.3	1.52	-1.48	-1.7	194.282	0.7824	6	1.64145	126.1869	1.86333	0.38064	1.4827	129.78	0.7899	-0.003	6	0.5715	0.8246	1.7098	149.9597
30.1	187.8	1.74	-1.64	-1.7	187.78	0.9266	6	1.70273	127.0929	1.86969	0.38376	1.4859	125.11	0.9359	-0.003	6	0.5957	0.8169	1.7729	143.5236
30.2	203.6	1.76	-2.15	-1.72	203.574	0.8646	6	1.6566	127.3735	1.87605	0.38688	1.4892	135.44	0.8726	-0.003	6	0.5775	0.8209	1.7247	156.4808
30.3	204.6	1.66	-3.65	-1.72	204.555	0.8115	6	1.636	126.9573	1.8824	0.39	1.4924	135.8	0.8191	-0.003	6	0.5699	0.822	1.7043	157.4528
30.4	188.2	1.57	-4.35	-1.7	188.147	0.8345	6	1.67071	126.3455	1.88872	0.39312	1.4956	124.54	0.8429	-0.004	6	0.5844	0.8169	1.7421	143.7981
30.5	152.6	1.41	-4.39	-1.7	152.546	0.9243	6	1.76783	125.0474	1.89497	0.39624	1.4987	100.52	0.9359	-0.005	6	0.6244	0.8046	1.8466	114.5611
30.6	115.4	1.35	-4	-1.7	115.351	1.1703	6	1.92661	124.0475	1.90117	0.39936	1.5018	75.542	1.19	-0.006	6	0.6891	0.7856	2.0159	84.23206
30.7	89.1	1.48	-3.84	-1.7	89.053	1.6619	5	2.11235	124.0892	1.90738	0.40248	1.5049	57.908	1.6983	-0.008	5	0.7646	0.7639	2.2126	62.91531
30.8	71.5	1.66	-4.49	-1.69	71.445	2.3235	5	2.28194	124.3916	1.9136	0.4056	1.508	46.108	2.3874	-0.01	5	0.8331	0.7444	2.3924	48.91758
30.9	56.2	1.64	-5.59	-1.69	56.1316	2.9217	5	2.42642	123.7146	1.91978	0.40872	1.5111	35.877	3.0252	-0.015	4	0.8928	0.7275	2.549	37.27409
31	44.8	1.58	-6.26	-1.7	44.7234	3.5328	4	2.55472	122.8877	1.92593	0.41184	1.5141	28.266	3.6918	-0.02	4	0.9465	0.7124	2.69	28.81296
31.1	34.9	1.55	-6.55	-1.72	34.8198	4.4515	4	2.70266	122.137	1.93204	0.41496	1.5171	21.678	4.713	-0.027	3	1	0.6975	2.8528	21.67842
31.2	30.9	1.44	-6.6	-1.72	30.8192	4.6724	3	2.75558	121.3007	1.9381	0.41808	1.52	19	4.986	-0.031	3	1	0.6961	2.9119	19.00048
31.3	30.5	1.38	-6.6	-1.73	30.4192	4.5366	3	2.75096	120.9574	1.94415	0.4212	1.523	18.697	4.8463	-0.031	3	1	0.6948	2.9091	18.69733
31.4	30.1	1.42	-6.57	-1.75	30.0196	4.7303	3	2.76756	121.1342	1.95021	0.42432	1.5259	18.395	5.0589	-0.032	3	1	0.6934	2.9267	18.39547
31.5	35.2	1.52	-6.57	-1.77	35.1196	4.3281	4	2.69153	122.0149	1.95631	0.42744	1.5289	21.691	4.5834	-0.027	3	1	0.6921	2.8446	21.69143
31.6	42.5	1.54	-6.7	-1.78	42.418	3.6305	4	2.57952	122.571	1.96243	0.43056	1.5319	26.409	3.8067	-0.023	4	0.9597	0.7011	2.7223	26.8064
31.7	49.2	1.55	-7.24	-1.78	49.1114	3.1561	4	2.49149	122.9757	1.96858	0.43368	1.5349	30.714	3.2879	-0.02	4	0.9234	0.7093	2.6266	31.60144
31.8	52.5	1.58	-8.15	-1.8	52.4002	3.0153	4	2.45744	123.2741	1.97475	0.4368	1.538	32.788	3.1333	-0.02	4	0.9096	0.7117	2.5897	33.91556
31.9	54.2	1.51	-8.93	-1.83	54.0907	2.7916	5	2.42438	123.02	1.9809	0.43992	1.541	33.816	2.8977	-0.021	4	0.8967	0.7138	2.5556	35.15481
32	52.4	1.41	-9.44	-1.85	52.2845	2.6968	5	2.42488	122.4358	1.98702	0.44304	1.544	32.576	2.8033	-0.022	4	0.898	0.7123	2.5585	33.85687
32.1	49.3	1.33	-9.72	-1.86	49.181	2.7043	5	2.44523	121.8591	1.99311	0.44616	1.547	30.504	2.8185	-0.024	4	0.9074	0.7085	2.5829	31.59587
32.2	43.7	1.18	-10.02	-1.86	43.5774	2.7078	4	2.48459	120.6885	1.99915	0.44928	1.5499	26.827	2.838	-0.028	4	0.9254	0.7024	2.6298	27.60205
32.3	35.7	1.08	-10.14	-1.86	35.5759	3.0358	4	2.58349	119.5458	2.00512	0.4524	1.5527	21.621	3.2171	-0.035	4	0.9683	0.6898	2.7423	21.88523
32.4	27.9	1.03	-10	-1.87	27.7776	3.708	4	2.72157	118.5954	2.01105	0.45552	1.5555	16.564	3.9974	-0.046	3	1	0.6802	2.8957	16.56444
32.5	26.4	0.98	-9.84	-1.89	26.2796	3.7291	4	2.74137	118.0961	2.01696	0.45864	1.5583	15.57	4.0391	-0.048	3	1	0.679	2.9195	15.56973
32.6	25.6	0.9	-9.75	-1.89	25.4807	3.5321	4	2.73624	117.3977	2.02283	0.46176	1.5611	15.027	3.8367	-0.05	3	1	0.6778	2.9177	15.02678
32.7	30.7	0.83	-9.67	-1.89	30.5816	2.7141	4	2.60208	117.2503	2.02869	0.46488	1.5638	18.259	2.9069	-0.041	4	0.981	0.6817	2.7744	18.39465
32.8	48.6	0.65	-9.62	-1.89	48.4823	1.3407	5	2.25557	116.5856	2.03452	0.468	1.5665	29.65	1.3994	-0.025	5	0.8379	0.7198	2.3975	31.59716
32.9	69.2	0.7	-9.62	-1.9	69.0823	1.0133	5	2.05961	117.9915	2.04042	0.47112	1.5693	42.721	1.0441	-0.017	5	0.7559	0.7423	2.1831	47.0345
33	76.4	0.91	-9.54	-1.92	76.2832	1.1929	5	2.06883	120.153	2.04643	0.47424	1.5722	47.219	1.2258	-0.016	5	0.7581	0.7407	2.1885	51.96467
33.1	66.8	1.18	-9.43	-1.92	66.6846	1.7695	5	2.22378	121.7262	2.05251	0.47736	1.5752	41.032	1.8257	-0.018	5	0.8207	0.7214	2.3513	44.06597
33.2	53.2	1.27	-9.39	-1.91	53.0851	2.3924	5	2.38487	121.7077	2.0586	0.48048	1.5781	32.334	2.4889	-0.023	4	0.8871	0.7015	2.5255	33.8271
33.3	40.5	1.29	-9.34	-1.91	40.3857	3.1942	4	2.55717	121.1551	2.06466	0.4836	1.5811	24.238	3.3663	-0.03	4	0.9593	0.6803	2.7152	24.63698
33.4	31.2	1.21	-9.11	-1.91	31.0885	3.8921	4	2.69898	120.0486	2.07066	0.48672	1.5839	18.32	4.1699	-0.039	3	1	0.668	2.8735	18.32004
33.5	26.4	1.08	-8.94	-1.93	26.2906	4.1079	3	2.76888	118.8081	2.0766	0.48984	1.5868	15.26	4.4602	-0.047	3	1	0.6668	2.9534	15.26001
33.6	25.1	0.9	-8.9	-1.93	24.9911	3.6013	4	2.74812	117.3504	2.08247	0.49296	1.5895	14.412	3.9287	-0.049	3	1	0.6657	2.9383	14.41239
33.7	27.5	0.76	-8.8	-1.93	27.3923	2.7745	4	2.64519	116.337	2.08828	0.49608	1.5922	15.892	3.0035	-0.045	4	1	0.6646	2.8336	15.89243
33.8	26.9	0.74	-8.78	-1.93	26.7925	2.762	4	2.65144	116.0879	2.09409	0.4992	1.5949	15.486	2.9961	-0.046	3	1	0.6634	2.842	15.486
33.9	26.7	0.79	-8.73	-1.94	26.5931	2.9707	4	2.67389	116.5481	2.09992	0.50232	1.5976	15.331	3.2254	-0.046	3	1	0.6623	2.8647	15.3313
34	24.8	0.78	-8.76	-1.95	24.6928	3.1588	4	2.7157	116.274	2.10573	0.50544	1.6003	14.114	3.4533	-0.05	3	1	0.6612	2.9113	14.11435
34.1	21	0.73	-8.68	-1.96	20.8938	3.4939	4	2.7996	115.3818	2.1115	0.50856	1.6029	11.717	3.8867	-0.06	3	1	0.6601	3.0067	11.71739
34.2	17.5	0.64	-8.58	-1.97	17.395	3.6792	3	2.87575	113.9721	2.1172	0.51168	1.6055	9.5158	4.1891	-0.074	3	1	0.659	3.0986	9.5158
34.3	16.8	0.55	-8.49	-1.97	16.6961	3.2942	3	2.86031	112.7632	2.12284	0.5148	1.608	9.0628	3.774	-0.077	3	1	0.658	3.0891	9.06276
34.4	17.5	0.44	-8.49	-2	17.3961	2.5293	4	2.77759	111.2306	2.1284	0.51792	1.6105	9.4802	2.8819	-0.074	3	1	0.657	3.0062	9.48022
34.5	17.3	0.41	-8.4	-2.01	17.1972	2.3841	4	2.76674	110.6859	2.13393	0.52104	1.6129	9.3393	2.7219	-0.075	3	1	0.656	2.9978	9.33928
34.6	16.9	0.45	-8.26	-2.01	16.7989	2.6788	4	2.80449	111.3099	2.1395	0.52416	1.6153	9.0751	3.0697	-0.076	3	1	0.655	3.0373	9.07513
34.7	17.9	0.54	-8.26	-2.02	17.7989	3.0339	4	2.81655	112.7849	2.14514	0.52728	1.6179	9.6756	3.4497	-0.072	3	1	0.654	3.0433	9.67562
34.8	18.8	0.61	-8.26	-2.03	18.6989	3.2622	4	2.81878	113.7971	2.15083	0.5304	1.6204	10.212	3.6862	-0.068	3	1	0.653	3.041	10.21217
34.9	20.6	0.53	-8.26	-2.03	20.4989	2.5855	4	2.72577	112.9926	2.15648	0.53352	1.623	11.302	2.8895	-0.062	3	1	0.652	2.9439	11.30186
35	25.7	0.68	-8.2	-2.05	25.5996	2.6563	4	2.65636	115.3581	2.16224	0.53664	1.6256	14.418	2.9014	-0.048	3	1	0.6509	2.8587	14.41765
35.1	30.5	0.84	-8.19	-2.05	30.3998	2.7632	4	2.60903	117.3234	2.16811	0.53976	1.6284	17.338	2.9754	-0.04	4	0.9941	0.6515	2.8001	17.38158
35.2	25.4	0.92	-8.01	-2.06	25.302	3.6361	4	2.74673	117.5414	2.17399	0.54288	1.6311	14.179	3.9779	-0.048	3	1	0.6487	2.9472	14.17931

35.3	23.5	0.89	-7.35	-2.06	23.41	3.8018	4	2.78498	117.1092	2.17984	0.546	1.6338	12.994	4.1921	-0.051	3	1	0.6476	2.9911	12.99403
35.4	19.4	0.83	-7.01	-2.05	19.3142	4.2974	3	2.88314	116.1295	2.18565	0.54912	1.6365	10.466	4.8457	-0.062	3	1	0.6466	3.1039	10.46639
35.5	18.4	0.78	-6.91	-2.05	18.3154	4.2587	3	2.89834	115.5454	2.19143	0.55224	1.6392	9.8366	4.8375	-0.065	3	1	0.6455	3.1247	9.83659
35.6	20	0.72	-6.7	-2.05	19.918	3.6148	3	2.82504	115.1643	2.19718	0.55536	1.6418	10.793	4.063	-0.059	3	1	0.6445	3.0468	10.79336
35.7	25.1	0.7	-6.45	-2.07	25.0211	2.7976	4	2.67813	115.5145	2.20296	0.55848	1.6445	13.876	3.0677	-0.045	3	1	0.6434	2.8865	13.87557
35.8	26.5	0.88	-6.45	-2.07	26.4211	3.3307	4	2.70777	117.3217	2.20883	0.5616	1.6472	14.699	3.6345	-0.042	3	1	0.6424	2.9108	14.69879
35.9	27.2	0.93	-6.45	-2.07	27.1211	3.4291	4	2.70727	117.7898	2.21472	0.56472	1.65	15.095	3.734	-0.041	3	1	0.6413	2.9088	15.09479
36	24.4	0.87	-6.38	-2.07	24.3219	3.577	4	2.75523	117.0361	2.22057	0.56784	1.6527	13.373	3.9364	-0.046	3	1	0.6402	2.9644	13.37265
36.1	20.8	0.79	-6.26	-2.06	20.7234	3.8121	3	2.82634	115.9398	2.22636	0.57096	1.6554	11.174	4.271	-0.055	3	1	0.6392	3.0479	11.17371
36.2	19.6	0.75	-6.23	-2.05	19.5237	3.8415	3	2.84845	115.4142	2.23214	0.57408	1.6581	10.429	4.3374	-0.059	3	1	0.6382	3.0758	10.42885
36.3	21.7	0.73	-6.23	-2.07	21.6237	3.3759	4	2.77862	115.4656	2.23791	0.5772	1.6607	11.673	3.7656	-0.053	3	1	0.6371	2.9998	11.67323
36.4	22.3	0.71	-6.19	-2.05	22.2242	3.1947	4	2.75432	115.3291	2.24367	0.58032	1.6634	12.012	3.5535	-0.051	3	1	0.6361	2.9747	12.0122
36.5	20	0.7	-6.05	-2.05	19.926	3.513	3	2.81711	114.9591	2.24942	0.58344	1.666	10.61	3.9601	-0.058	3	1	0.6351	3.0461	10.61027
36.6	16.8	0.67	-6	-2.03	16.7266	4.0056	3	2.91206	114.2117	2.25513	0.58656	1.6686	8.6729	4.6298	-0.07	3	1	0.6341	3.1568	8.67293
36.7	16.2	0.59	-5.93	-2.05	16.1274	3.6584	3	2.90006	113.1924	2.26079	0.58968	1.6711	8.2978	4.2548	-0.073	3	1	0.6332	3.1506	8.29784
36.8	15.8	0.5	-5.85	-2.05	15.7284	3.179	3	2.87165	111.9202	2.26639	0.5928	1.6736	8.0438	3.7142	-0.075	3	1	0.6322	3.1274	8.04379
36.9	15.8	0.46	-5.85	-2.05	15.7284	2.9247	3	2.85008	111.3101	2.27195	0.59592	1.676	8.0287	3.4184	-0.076	3	1	0.6313	3.1076	8.02874
37	16.5	0.43	-5.85	-2.05	16.4284	2.6174	4	2.80645	110.9228	2.2775	0.59904	1.6785	8.4309	3.0387	-0.072	3	1	0.6304	3.0613	8.43088
37.1	17.2	0.43	-5.81	-2.06	17.1289	2.5104	4	2.78115	111.0247	2.28305	0.60216	1.6809	8.8321	2.8964	-0.069	3	1	0.6295	3.033	8.83212
37.2	19.1	0.49	-5.78	-2.07	19.0293	2.575	4	2.75066	112.237	2.28866	0.60528	1.6834	9.9446	2.927	-0.061	3	1	0.6286	2.9928	9.94461
37.3	20.6	0.57	-5.71	-2.05	20.5301	2.7764	4	2.74389	113.5287	2.29434	0.6084	1.6859	10.816	3.1257	-0.056	3	1	0.6276	2.9791	10.81638
37.4	20.3	0.64	-5.76	-2.07	20.2295	3.1637	4	2.78367	114.3403	2.30006	0.61152	1.6885	10.618	3.5696	-0.057	3	1	0.6266	3.0191	10.61833
37.5	18.9	0.7	-5.7	-2.05	18.8302	3.7174	3	2.85165	114.8212	2.3058	0.61464	1.6912	9.7711	4.2362	-0.062	3	1	0.6257	3.0923	9.77107
37.6	18.2	0.74	-5.7	-2.05	18.1302	4.0816	3	2.89002	115.1354	2.31156	0.61776	1.6938	9.3392	4.678	-0.065	3	1	0.6247	3.1338	9.33919
37.7	19.7	0.85	-5.7	-2.04	19.6302	4.3301	3	2.87987	116.3433	2.31737	0.62088	1.6965	10.205	4.9097	-0.06	3	1	0.6237	3.116	10.20509
37.8	24.7	0.94	-5.7	-2.04	24.6302	3.8165	4	2.76927	117.6331	2.32325	0.624	1.6993	13.128	4.2139	-0.046	3	1	0.6227	2.989	13.12751
37.9	27.8	0.94	-5.63	-2.03	27.7311	3.3897	4	2.69666	117.9223	2.32915	0.62712	1.702	14.925	3.7005	-0.041	3	1	0.6217	2.9103	14.9245
38	25	1.05	-5.7	-2.05	24.9302	4.2118	3	2.79335	118.4724	2.33507	0.63024	1.7048	13.254	4.647	-0.046	3	1	0.6207	3.0121	13.25359
38.1	27.1	1.18	-5.67	-2.03	27.0306	4.3654	3	2.77747	119.5237	2.34105	0.63336	1.7077	14.458	4.7794	-0.042	3	1	0.6196	2.9905	14.45787
38.2	31.1	1.1	-5.63	-2.04	31.0311	3.5448	4	2.67253	119.3467	2.34702	0.63648	1.7105	16.769	3.8349	-0.036	3	1	0.6186	2.8802	16.76904
38.3	30.7	1.27	-5.63	-2.05	30.6311	4.1461	4	2.72222	120.3665	2.35304	0.6396	1.7134	16.504	4.4911	-0.037	3	1	0.6175	2.929	16.50372
38.4	32.4	1.33	-5.62	-2.03	32.3312	4.1137	4	2.70264	120.836	2.35908	0.64272	1.7164	17.463	4.4375	-0.035	3	1	0.6165	2.9068	17.46264
38.5	34	1.32	-5.48	-2.05	33.9329	3.89	4	2.67074	120.8988	2.36512	0.64584	1.7193	18.361	4.1815	-0.033	3	1	0.6154	2.8736	18.36104
38.6	32.3	1.31	-5.22	-2.06	32.2361	4.0638	4	2.69999	120.718	2.37116	0.64896	1.7222	17.341	4.3864	-0.034	3	1	0.6144	2.9059	17.34118
38.7	29.6	1.27	-5.07	-2.07	29.5379	4.2996	4	2.74451	120.2779	2.37717	0.65208	1.7251	15.745	4.6759	-0.037	3	1	0.6134	2.9559	15.74453
38.8	31.5	1.27	-5.08	-2.07	31.4378	4.0397	4	2.70627	120.4299	2.38319	0.6552	1.728	16.814	4.3711	-0.035	3	1	0.6123	2.9153	16.81408
38.9	32.8	1.25	-5.03	-2.07	32.7384	3.8181	4	2.67675	120.4127	2.38921	0.65832	1.7309	17.534	4.1187	-0.034	3	1	0.6113	2.8848	17.53384
39	32.7	1.21	-4.59	-2.05	32.6438	3.7067	4	2.66904	120.1676	2.39522	0.66144	1.7338	17.447	4.0002	-0.033	3	1	0.6103	2.8784	17.44659
39.1	32.2	1.24	-4.17	-2.03	32.149	3.8571	4	2.68555	120.3096	2.40124	0.66456	1.7367	17.129	4.1684	-0.032	3	1	0.6093	2.8959	17.12909
39.2	34.5	1.3	-3.85	-2.04	34.4529	3.7733	4	2.65692	120.8241	2.40728	0.66768	1.7396	18.421	4.0567	-0.029	3	1	0.6083	2.8641	18.42125
39.3	35.1	1.31	-3.27	-2.03	35.06	3.7365	4	2.64846	120.9228	2.41333	0.6708	1.7425	18.735	4.0127	-0.028	3	1	0.6072	2.8554	18.73525
39.4	36.5	1.28	-3	-2.03	36.4633	3.5104	4	2.61758	120.849	2.41937	0.67392	1.7455	19.504	3.7599	-0.026	3	1	0.6062	2.8239	19.5044
39.5	37.1	1.38	-2.98	-2.03	37.0635	3.7233	4	2.6297	121.4392	2.42544	0.67704	1.7484	19.811	3.9841	-0.026	3	1	0.6052	2.8348	19.81131
39.6	32.6	1.37	-2.84	-2.04	32.5652	4.2069	4	2.70696	121.0705	2.43149	0.68016	1.7513	17.206	4.5464	-0.029	3	1	0.6042	2.9185	17.20617
39.7	27.7	1.18	-2.73	-2.05	27.6666	4.2651	3	2.7632	119.5805	2.43747	0.68328	1.7542	14.382	4.6771	-0.035	3	1	0.6032	2.9863	14.38218
39.8	23.4	1	-2.33	-2.05	23.3715	4.2787	3	2.81897	117.9579	2.44337	0.6864	1.757	11.911	4.7783	-0.041	3	1	0.6022	3.0559	11.91148
39.9	24.1	1.03	-2.03	-2.07	24.0752	4.2783	3	2.80923	118.2465	2.44928	0.68952	1.7598	12.289	4.7628	-0.039	3	1	0.6013	3.0444	12.28908
40	29.8	0.98	-2.02	-2.05	29.7753	3.2913	4	2.66488	118.4007	2.4552	0.69264	1.7626	15.5	3.5871	-0.031	3	1	0.6003	2.889	15.5002
40.1	23.8	0.93	-1.89	-2.07	23.7769	3.9114	3	2.78784	117.4688	2.46108	0.69576	1.7653	12.075	4.363	-0.039	3	1	0.5994	3.0269	12.07477
40.2	20.9	0.87	-0.85	-2.06	20.8896	4.1648	3	2.84833	116.6651	2.46691	0.69888	1.768	10.42	4.7224	-0.041	3	1	0.5985	3.0985	10.4199
40.3	21.4	0.8	-0.61	-2.07	21.3925	3.7396	3	2.81039	116.1094	2.47271	0.702	1.7707	10.685	4.2284	-0.039	3	1	0.5976	3.0607	10.68485
40.4	27.1	0.85	-0.53	-2.06	27.0935	3.1373	4	2.68273	117.1292	2.47857	0.70512	1.7735	13.88	3.4532	-0.03	3	1	0.5966	2.9171	13.87968
40.5	27.7	0.82	-0.66	-2.05	27.6919	2.9612	4	2.65941	116.9196	2.48442	0.70824	1.7762	14.192	3.253	-0.03	3	1	0.5957	2.8937	14.192
40.6	22.9	0.8	-0.52	-2.05	22.8936	3.4944	4	2.76892	116.2748	2.49023	0.71136	1.7789	11.47	3.9209	-0.037	3	1	0.5948	3.0164	11.46986
40.7	19.3	0.77	-0.18	-2.05	19.2978	3.9901	3	2.86282	115.5784	2.49601	0.71448	1.7815	9.4311	4.5829	-0.043	3	1	0.5939	3.125	9.4311
40.8	17.5	0.66	-0.05	-2.05	17.4994	3.7716	3	2.88041	114.2119	2.50172	0.7176	1.7841	8.4062	4.4007	-0.048	3	1	0.5931	3.1546	8.4062
40.9	16.8	0.55	-0.05	-2.05	16.7994	3.2739	3	2.85655	112.7782	2.50736	0.72072	1.7866	7.9994	3.8483	-0.051	3	1	0.5922	3.1382	7.99939
41	16.4	0.49	-0.01	-2.06	16.3999	2.9878	4	2.84099	111.8743	2.51295	0.72384	1.7891	7.7619	3.5285	-0.052	3	1	0.5914	3.1275	7.7619
41.1	16.2	0.5	0.08	-2.05	16.201	3.0862	3	2.85365	111.9924	2.51855	0.72696	1.7916	7.637	3.6543	-0.053	3	1	0.5906	3.1419	7.63702
41.2	16.5	0.5	0.1	-2.07	16.5012	3.0301	3	2.84249	112.0372	2.52415	0.73008	1.7941	7.7907	3.5773	-0.052	3	1	0.5898	3.1295	7.79069
41.3	17	0.52	0.02	-2.07	17.0002	3.0588	4	2.8346	112.3968	2.52977	0.7332	1.7966	8.0545	3.5935	-0.051	3	1	0.589	3.1187	8.05448
41.4	17.3	0.57	0.21	-2.07	17.3026	3.2943	3	2.84803	113.1116	2.53543	0.73632	1.7991	8.208	3.8599	-0.049	3	1	0.5881	3.1298	8.20803
41.5	16.6	0.62	0.19	-2.07	16.6023	3.7344	3	2.89565	113.626	2.54111	0.73944	1.8017	7.8045	4.4093	-0.052	3	1	0.5873	3.1812	7.80454
41.6	16.3	0.57	6.56	-2.07	16.3803	3.4798	3	2.88139	112.978	2.54676	0.74256	1.8042	7.6674	4.1204	-0.02	3	1	0.5865	3.1703	7.66741
41.7	16.1	0.53	6.88	-2.07	16.1842	3.2748	3	2.86951	112.4162	2.55238	0.74568	1.8067	7.5452	3.888	-0.018	3	1	0.5857	3.1615	7.54515
41.8	15.9	0.5	6.88	-2.07	15.9842	3.1281	3	2.86184	111.9595	2.55798	0.7488	1.8092	7.4212	3.7241	-0.019	3	1	0.5849	3.1568	7.42117
41.9	15.9	0.48	6.92	-2.07	15.9847	3.0029	3	2.85123	111.6609	2.56356	0.75192	1.8116	7.4083	3.5765	-0.019	3	1	0.5841	3.1475	7.40827
42	16	0.48	6.95	-2.07	16.0851	2.9841	3	2.84743	111.6762	2.56915	0.75504	1.8141	7.4505	3.5514	-0.019	3	1	0.5833	3.1437	7.45046
42.1	16	0.5	7.06	-2.07	16.0864	3.1082	3	2.85796	111.9751	2.57474	0.75816	1.8166	7.438	3.7005	-0.018	3	1	0.5825	3.1544	7.43795
42.2	17	0.52	7.1	-2.07	17.0869	3.0433	4	2.8315	112.4092	2.58036	0.76128	1.8191	7.9746	3.5846	-0.017	3	1	0.5817	3.1217	7.97464
42.3	17.8	0.54	7.1	-2.05	17.8869	3.019	4	2.81355	112.797	2.586	0.7644	1.8216	8.3997	3.5292	-0.017	3	1	0.5809	3.0993	8.39968

42.4	17.8	0.57	7.17	-2.07	17.8878	3.1865	4	2.82777	113.1927	2.59166	0.76752	1.8241	8.3854	3.7264	-0.016	3	1	0.5801	3.1134	8.38535
42.5	18.3	0.61	7.18	-2.07	18.3879	3.3174	3	2.82901	113.7562	2.59735	0.77064	1.8267	8.6442	3.8631	-0.016	3	1	0.5792	3.1117	8.64424
42.6	20.4	0.67	7.24	-2.07	20.4886	3.2701	4	2.78824	114.7065	2.60309	0.77376	1.8293	9.7771	3.746	-0.014	3	1	0.5784	3.0604	9.77711
42.7	22.3	0.7	7.19	-2.07	22.388	3.1267	4	2.74599	115.2433	2.60885	0.77688	1.832	10.797	3.5391	-0.013	3	1	0.5776	3.0111	10.79666
42.8	22.1	0.71	7.24	-2.07	22.1886	3.1998	4	2.7553	115.3252	2.61462	0.78	1.8346	10.669	3.6273	-0.013	3	1	0.5768	3.0215	10.66926
42.9	21.4	0.72	7.18	-2.07	21.4879	3.3507	4	2.77871	115.3493	2.62038	0.78312	1.8373	10.269	3.8161	-0.014	3	1	0.5759	3.0479	10.26935
43	19.6	0.7	7.25	-2.07	19.6887	3.5553	3	2.82443	114.9299	2.62613	0.78624	1.8399	9.2737	4.1025	-0.015	3	1	0.5751	3.1022	9.27371
43.1	17.7	0.65	7.33	-2.09	17.7897	3.6538	3	2.86624	114.1403	2.63184	0.78936	1.8425	8.2269	4.2882	-0.017	3	1	0.5743	3.1556	8.2269
43.2	17.6	0.65	7.41	-2.07	17.6907	3.6743	3	2.86965	114.1267	2.63754	0.79248	1.8451	8.1586	4.318	-0.017	3	1	0.5735	3.1603	8.15861
43.3	18.5	0.7	7.62	-2.07	18.5933	3.7648	3	2.85939	114.7903	2.64328	0.7956	1.8477	8.6324	4.3887	-0.015	3	1	0.5727	3.1446	8.63243
43.4	22.4	0.75	7.71	-2.07	22.4944	3.3342	4	2.76191	115.7596	2.64907	0.79872	1.8504	10.725	3.7792	-0.012	3	1	0.5718	3.0302	10.72516
43.5	29.8	0.8	7.75	-2.07	29.8949	2.6761	4	2.60583	116.9256	2.65492	0.80184	1.8531	14.7	2.9369	-0.009	3	1	0.571	2.8551	14.69984
43.6	39.5	0.91	7.46	-2.09	39.5913	2.2985	5	2.46968	118.5534	2.66084	0.80496	1.8559	19.899	2.4641	-0.007	4	0.9655	0.5813	2.6972	20.28847
43.7	47.8	1.16	6.96	-2.09	47.8852	2.4225	5	2.42186	120.7934	2.66688	0.80808	1.8588	24.327	2.5653	-0.007	4	0.9417	0.5883	2.6339	25.13962
43.8	51.3	1.24	6.43	-2.07	51.3787	2.4135	5	2.39796	121.4531	2.67296	0.8112	1.8618	26.161	2.5459	-0.007	4	0.9308	0.591	2.605	27.20389
43.9	53.2	1.18	5.95	-2.07	53.2728	2.215	5	2.36142	121.1785	2.67902	0.81432	1.8647	27.132	2.3323	-0.008	4	0.9162	0.595	2.5661	28.45146
44	62.8	1.46	5.22	-2.1	62.8639	2.3225	5	2.32209	123.1402	2.68517	0.81744	1.8677	32.22	2.4261	-0.007	4	0.897	0.6007	2.5151	34.16218
44.1	56.4	1.75	4.43	-2.11	56.4542	3.0999	4	2.44257	124.2036	2.69138	0.82056	1.8708	28.738	3.255	-0.009	4	0.9463	0.5832	2.6448	29.63032
44.2	44.7	1.84	3.94	-2.11	44.7482	4.1119	4	2.6006	124.0038	2.69758	0.82368	1.8739	22.44	4.3757	-0.013	3	1	0.5647	2.8202	22.44013
44.3	39.9	1.7	4.05	-2.11	39.9496	4.2554	4	2.64615	123.1481	2.70374	0.8268	1.8769	19.844	4.5643	-0.014	3	1	0.5637	2.8725	19.8439
44.4	41.5	1.29	4.25	-2.12	41.552	3.1045	4	2.5397	121.2246	2.7098	0.82992	1.8799	20.662	3.3211	-0.013	4	0.9944	0.5647	2.7694	20.729
44.5	52.3	1.6	4.32	-2.13	52.3529	3.0562	4	2.46178	123.3639	2.71597	0.83304	1.8829	26.362	3.2234	-0.011	4	0.9574	0.5759	2.6725	27.01691
44.6	59.2	1.81	4.21	-2.12	59.2515	3.0548	5	2.42315	124.5682	2.7222	0.83616	1.886	29.973	3.2019	-0.009	4	0.9395	0.581	2.6249	31.03943
44.7	43	1.63	4.8	-2.11	43.0588	3.7855	4	2.58739	123.0232	2.72835	0.83928	1.8891	21.349	4.0416	-0.012	3	1	0.5601	2.814	21.34934
44.8	27.5	1.32	5.67	-2.1	27.5694	4.7879	3	2.7982	120.3922	2.73437	0.8424	1.892	13.127	5.3151	-0.017	3	1	0.5593	3.0523	13.12655
44.9	21.2	1.09	6.41	-2.1	21.2785	5.1226	3	2.90121	118.3596	2.74029	0.84552	1.8948	9.7839	5.8798	-0.021	3	1	0.5584	3.1789	9.78388
45	19.1	0.89	7.4	-2.09	19.1906	4.6377	3	2.90665	116.6245	2.74612	0.84864	1.8975	8.6665	5.4122	-0.019	3	1	0.5576	3.198	8.66648
45.1	18.2	0.64	8.47	-2.09	18.3037	3.4966	3	2.84468	114.0963	2.75182	0.85176	1.9001	8.1849	4.1153	-0.016	3	1	0.5569	3.1469	8.18491
45.2	17.7	0.53	36.24	-2.09	18.1436	2.9211	4	2.79999	112.6949	2.75746	0.85488	1.9026	8.087	3.4447	0.114	3	1	0.5561	3.1069	8.08698
45.3	18.6	0.51	37.28	-2.09	19.0563	2.6763	4	2.76013	112.5332	2.76308	0.858	1.9051	8.5525	3.1301	0.1121	3	1	0.5554	3.0634	8.55249
45.4	19.3	0.5	36.59	-2.09	19.7479	2.5319	4	2.73336	112.4752	2.76871	0.86112	1.9076	8.9009	2.9448	0.1044	3	1	0.5547	3.0342	8.90085
45.5	18.5	0.49	35.2	-2.09	18.9309	2.5884	4	2.75381	112.2244	2.77432	0.86424	1.9101	8.4586	3.0328	0.1034	3	1	0.554	3.0597	8.45856
45.6	16	0.49	33.47	-2.1	16.4097	2.986	4	2.84063	111.8758	2.77991	0.86736	1.9126	7.1265	3.5951	0.1132	3	1	0.5532	3.1627	7.12647
45.7	14.6	0.47	32.46	-2.11	14.9973	3.1339	3	2.88452	111.3514	2.78548	0.87048	1.915	6.3769	3.8487	0.1201	3	1	0.5525	3.2192	6.37693
45.8	13.6	0.37	32.57	-2.12	13.9987	2.6431	4	2.86561	109.4328	2.79095	0.8736	1.9174	5.8454	3.3013	0.1313	3	1	0.5519	3.2141	5.84541
45.9	13.2	0.3	33.04	-2.13	13.6044	2.2052	4	2.8316	107.8286	2.79634	0.87672	1.9196	5.6303	2.7757	0.139	3	1	0.5512	3.1878	5.6303
46	13.3	0.32	33.52	-2.14	13.7103	2.334	4	2.8425	108.3198	2.80176	0.87984	1.9219	5.6759	2.9335	0.1406	3	1	0.5506	3.1975	5.67585
46.1	14.3	0.35	34.32	-2.15	14.7201	2.3777	4	2.8215	109.1488	2.80722	0.88296	1.9243	6.1909	2.938	0.1333	3	1	0.5499	3.1658	6.19089
46.2	21.9	0.39	35.97	-2.15	22.3403	1.7457	4	2.59621	110.9581	2.81277	0.88608	1.9267	10.135	1.9972	0.0873	4	1	0.5492	2.8955	10.13528
46.3	37.1	0.49	33.14	-2.15	37.5056	1.3065	5	2.33949	113.8919	2.81846	0.8892	1.9293	17.98	1.4126	0.0432	4	0.9279	0.5727	2.5887	18.775
46.4	45.3	0.77	20.36	-2.16	45.5492	1.6905	5	2.33833	117.673	2.82434	0.89232	1.932	22.114	1.8022	0.0134	4	0.9212	0.5743	2.5706	23.18892
46.5	43.9	1.02	12.43	-2.17	44.0521	2.3154	5	2.43632	119.6488	2.83033	0.89544	1.9349	21.305	2.4744	-1E-05	4	0.9601	0.5602	2.673	21.82428
46.6	41	1.16	10.62	-2.17	41.13	2.8203	4	2.51509	120.4225	2.83635	0.89856	1.9378	19.762	3.0292	-0.004	4	0.9934	0.5482	2.7594	19.84056
46.7	40.9	1.15	8.96	-2.15	41.0097	2.8042	4	2.51439	120.352	2.84236	0.90168	1.9407	19.667	3.0131	-0.007	4	0.9936	0.5473	2.7596	19.74317
46.8	42.5	1.17	7.01	-2.16	42.5858	2.7474	4	2.49624	120.5701	2.84839	0.9048	1.9436	20.445	2.9443	-0.01	4	0.9853	0.5493	2.7384	20.62934
46.9	39.9	1.24	5.11	-2.15	39.9626	3.1029	4	2.55208	120.8402	2.85444	0.90792	1.9465	19.064	3.3416	-0.015	4	1	0.5436	2.7994	19.06387
47	30.5	1.17	4.44	-2.15	30.5544	3.8292	4	2.69984	119.7603	2.86042	0.91104	1.9494	14.207	4.2248	-0.021	3	1	0.5428	2.9627	14.2065
47.1	23.2	0.95	4.72	-2.15	23.2578	4.0847	3	2.80737	117.5707	2.8663	0.91416	1.9521	10.446	4.6588	-0.028	3	1	0.542	3.0941	10.44569
47.2	21.4	0.67	5.15	-2.15	21.463	3.1217	4	2.75989	114.8198	2.87204	0.91728	1.9548	9.5106	3.6039	-0.029	3	1	0.5413	3.0604	9.51061
47.3	19.6	0.42	5.61	-2.15	19.6687	2.1354	4	2.6915	111.1897	2.8776	0.9204	1.9572	8.5791	2.5013	-0.031	3	1	0.5406	3.0088	8.57911
47.4	18.8	0.44	5.91	-2.15	18.8723	2.3315	4	2.72822	111.4293	2.88317	0.92352	1.9597	8.1592	2.7519	-0.031	3	1	0.54	3.0495	8.15918
47.5	18	0.6	6.12	-2.15	18.0749	3.3195	3	2.83506	113.5934	2.88885	0.92664	1.9622	7.7393	3.951	-0.032	3	1	0.5392	3.1565	7.73925
47.6	17.8	0.71	6.61	-2.17	17.8809	3.9707	3	2.88712	114.7988	2.89459	0.92976	1.9648	7.6273	4.7377	-0.03	3	1	0.5385	3.2077	7.62727
47.7	20.9	0.93	8.1	-2.16	20.9991	4.4288	3	2.86392	117.1658	2.90045	0.93288	1.9676	9.1985	5.1385	-0.019	3	1	0.5378	3.1638	9.19849
47.8	27.8	1.04	10.43	-2.15	27.9277	3.7239	4	2.72103	118.6793	2.90639	0.936	1.9704	12.699	4.1565	-0.007	3	1	0.537	2.9967	12.69867
47.9	41	1.09	10.64	-2.15	41.1302	2.6501	4	2.49722	119.9671	2.91238	0.93912	1.9733	19.368	2.8521	-0.005	4	0.9916	0.539	2.7498	19.46944
48	63.2	1.25	10.01	-2.15	63.3225	1.974	5	2.2721	122.0217	2.91849	0.94224	1.9763	30.565	2.0694	-0.004	5	0.8914	0.573	2.4864	32.71156
48.1	88.8	1.42	7.07	-2.13	88.8865	1.5975	5	2.10128	123.7818	2.92467	0.94536	1.9793	43.43	1.6519	-0.005	5	0.8161	0.5998	2.29	48.73136
48.2	108.9	1.6	5	-2.14	108.961	1.4684	6	2.0117	125.1517	2.93093	0.94848	1.9825	53.484	1.509	-0.006	5	0.7769	0.614	2.1868	61.52467
48.3	127.2	1.81	3.94	-2.15	127.248	1.4224	6	1.95371	126.4325	2.93725	0.9516	1.9857	62.605	1.456	-0.005	5	0.7513	0.6232	2.1191	73.21336
48.4	156.5	2.07	2.65	-2.17	156.532	1.3224	6	1.86791	127.9197	2.94365	0.95472	1.9889	77.222	1.3478	-0.005	6	0.714	0.6372	2.0207	92.49852
48.5	177.2	2.37	1.59	-2.17	177.219	1.3373	6	1.83437	129.2128	2.95011	0.95784	1.9923	87.473	1.36	-0.005	6	0.6987	0.6427	1.9802	105.8458
48.6	187.7	2.59	0.85	-2.15	187.71	1.3798	6	1.82757	130.0025	2.95661	0.96096	1.9957	92.578	1.4019	-0.005	6	0.6952	0.6433	1.9705	112.3315
48.7	202.5	2.71	0.13	-2.16	202.502	1.3383	6	1.79576	130.5189	2.96314	0.96408	1.9991	99.816	1.3581	-0.005	6	0.6817	0.6481	1.9346	122.2228
48.8	220.2	2.88	-0.07	-2.15	220.199	1.3079	6	1.76434	131.1685	2.96969	0.9672	2.0025	108.48	1.3258	-0.004	6	0.6682	0.653	1.8987	134.0536
48.9	239.6	3.16	-0.23	-2.17	239.597	1.3189	6	1.74341	132.0533	2.9763	0.97032	2.006	117.96	1.3355	-0.004	6	0.6587	0.6562	1.8734	146.7371
49	259.7	3.47	-0.43	-2.18	259.695	1.3362	6	1.72566	132.9345	2.98294	0.97344	2.0095	127.75	1.3517	-0.004	6	0.6505	0.6589	1.8516	159.846
49.1	278.7	3.73	-0.58	-2.18	278.693	1.3384	6	1.7072	133.6353	2.98963	0.97656	2.0131	136.96	1.3529	-0.004	6	0.6423	0.6616	1.8296	172.3815
49.2	291	3.91	-0.86	-2.18	290.989	1.3437	6	1.6971	134.0855	2.99633	0.97968	2.0167	142.81	1.3577	-0.004	6	0.6379	0.6627	1.8175	180.3749
49.3	292.5	3.93	-1.11	-2.2	292.486	1.3437	6	1.69574	134.1353	3.00304	0.9828	2.0202	143.29	1.3576	-0.004	6	0.6376	0.6621	1.8163	181.1384
49.4	287.5	3.94	-1.18	-2.21	287.486	1.3705	6	1.70712	134.1119	3.00974	0.98592	2.0238	140.56	1.385	-0.004	6	0.6426	0.6592	1.8291	177.2231

49.5	288.4	3.97	-1.31	-2.21	288.384	1.3766	6	1.70784	134.175	3.01645	0.98904	2.0274	140.75	1.3912	-0.004	6	0.6432	0.6582	1.8301	177.5142
49.6	293.9	3.97	-1.26	-2.21	293.885	1.3509	6	1.69634	134.2211	3.02316	0.99216	2.031	143.21	1.3649	-0.004	6	0.6387	0.6594	1.8178	181.2546
49.7	293.6	4.03	-1.18	-2.21	293.586	1.3727	6	1.70215	134.3283	3.02988	0.99528	2.0346	142.81	1.387	-0.004	6	0.6413	0.6575	1.8242	180.5551
49.8	282.1	0	-1.2	-2.21	282.085	0	0	0	120.9	3.03592	0.9984	2.0375	136.96	0	-0.004	0	1	0.5193	0	0
49.9	277.3	0	-1.42	-2.21	277.283	0	0	0	120.9	3.04197	1.00152	2.0405	134.4	0	-0.004	0	1	0.5186	0	0
50	275.2	0	-1.56	-2.23	275.181	0	0	0	120.9	3.04801	1.00464	2.0434	133.18	0	-0.004	0	1	0.5178	0	0

Airport Blvd
Thermal, CA

CPT Shear Wave Measurements

	Tip Depth (ft)	Geophone Depth (ft)	Travel Distance (ft)	S-Wave Arrival (msec)	S-Wave Velocity from Surface (ft/sec)	Interval S-Wave Velocity (ft/sec)
CPT-4						
	5.12	4.12	6.48	7.91	819.06	
	10.20	9.20	10.47	13.53	773.90	710.35
	15.18	14.18	15.04	18.74	802.33	876.16
	20.34	19.34	19.98	24.76	806.78	820.63
	25.19	24.19	24.70	29.28	843.62	1045.46
	30.21	29.21	29.63	34.49	859.23	946.93
	35.21	34.21	34.57	42.98	804.41	581.70
	40.22	39.22	39.54	47.74	828.18	1042.85
	45.19	44.19	44.47	52.98	839.41	941.71
	50.22	49.22	49.47	60.84	813.17	636.30
CPT-8						
	5.10	4.10	6.47	7.83	825.81	
	10.20	9.20	10.47	13.80	758.76	670.83
	15.29	14.29	15.14	19.60	772.42	804.93
	20.36	19.36	20.00	24.77	807.24	939.22
	25.21	24.21	24.72	33.48	738.38	542.56
	30.15	29.15	29.58	40.76	725.61	666.87
	35.72	34.72	35.08	49.21	712.83	651.18
	40.18	39.18	39.50	54.88	719.71	779.47
	45.25	44.25	44.53	60.35	737.89	920.26
	50.18	49.18	49.43	65.80	751.27	899.44

Shear Wave Source Offset = 5 ft

S-Wave Velocity from Surface = Travel Distance/S-Wave Arrival
Interval S-Wave Velocity = (Travel Dist2-Travel Dist1)/(Time2-Time1)

CPT Shear Wave Measurements

CPT-11	Tip Depth (ft)	Geophone Depth (ft)	Travel Distance (ft)	S-Wave Arrival (msec)	S-Wave Velocity from Surface (ft/sec)	Interval S-Wave Velocity (ft/sec)
	5.17	4.17	6.51	6.96	935.44	
	10.12	9.12	10.40	13.07	795.77	636.66
	15.18	14.18	15.04	18.90	795.54	795.03
	20.15	19.15	19.79	24.09	821.58	916.43
	26.67	25.67	26.15	32.58	802.71	749.17
	30.09	29.09	29.52	37.16	794.31	734.53
	35.98	34.98	35.34	45.45	777.46	701.93
	40.14	39.14	39.46	49.27	800.85	1079.20
	45.13	44.13	44.41	55.41	801.52	806.89
	50.21	49.21	49.46	61.76	800.90	795.43

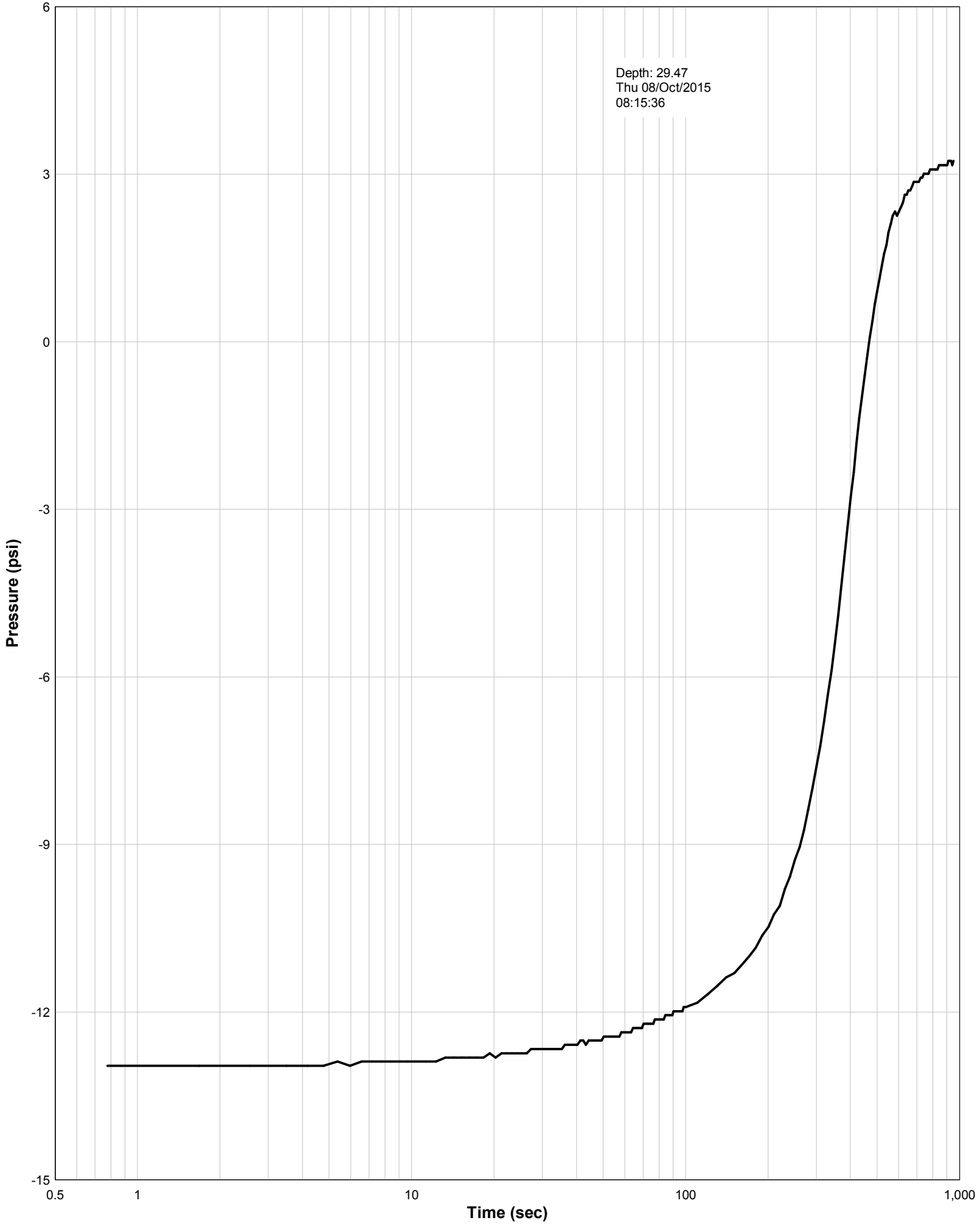
CPT-14	(ft)	(ft)	(ft)	(msec)	(ft/sec)	(ft/sec)
	5.15	4.15	6.50	6.86	947.21	
	10.37	9.37	10.62	12.87	825.22	685.97
	15.18	14.18	15.04	17.91	839.51	876.02
	20.39	19.39	20.02	23.33	858.31	920.40
	25.79	24.79	25.29	29.84	847.49	808.74
	30.12	29.12	29.55	34.59	854.18	896.20
	35.18	34.18	34.54	42.05	821.49	669.92
	40.12	39.12	39.44	49.43	797.86	663.21
	45.17	44.17	44.45	56.33	789.14	726.65
	50.14	49.14	49.39	61.81	799.12	901.76

Shear Wave Source Offset = 5 ft

S-Wave Velocity from Surface = Travel Distance/S-Wave Arrival
Interval S-Wave Velocity = (Travel Dist2-Travel Dist1)/(Time2-Time1)

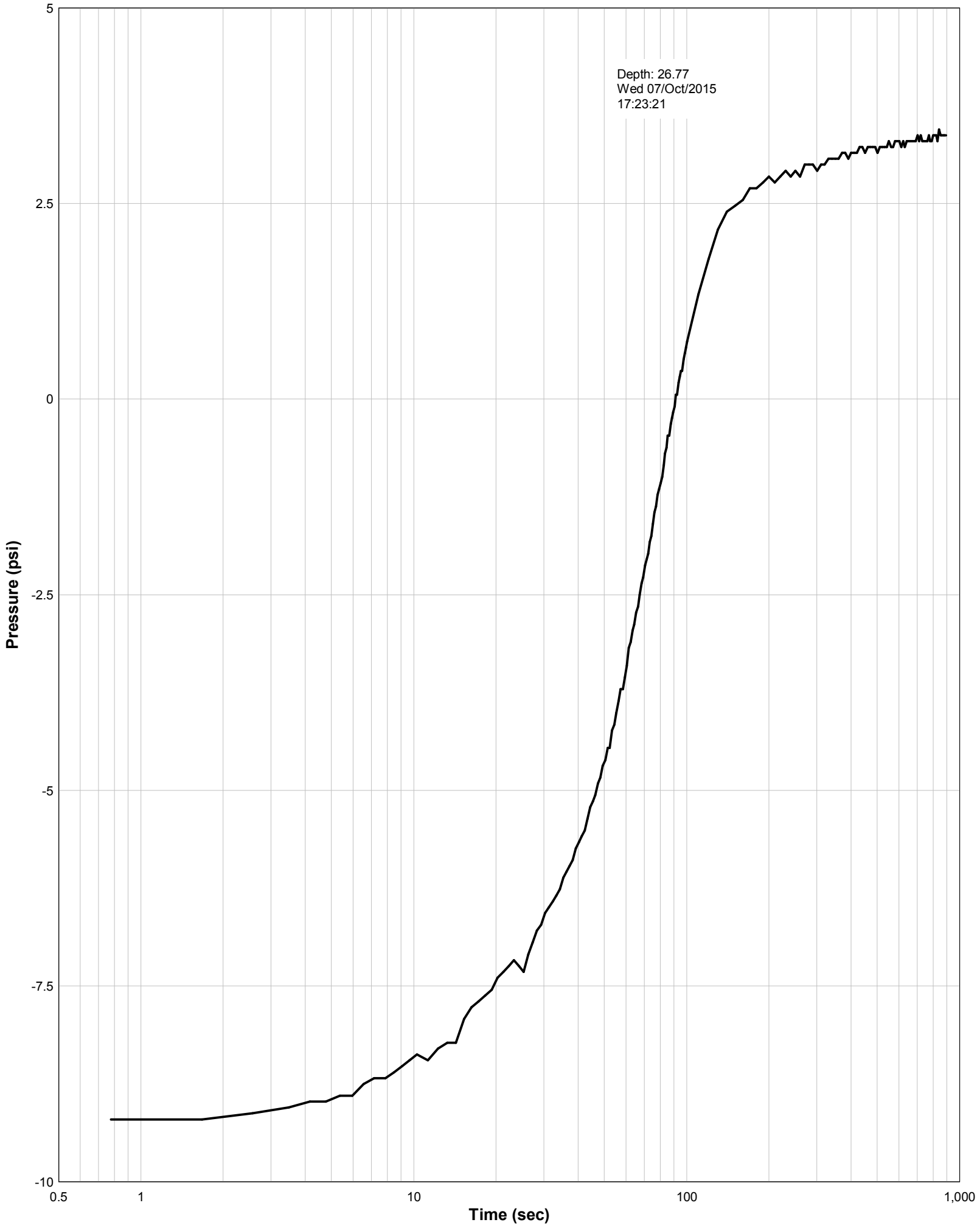
GENNTERRA Consultants, Inc CPT-1

Kehoe



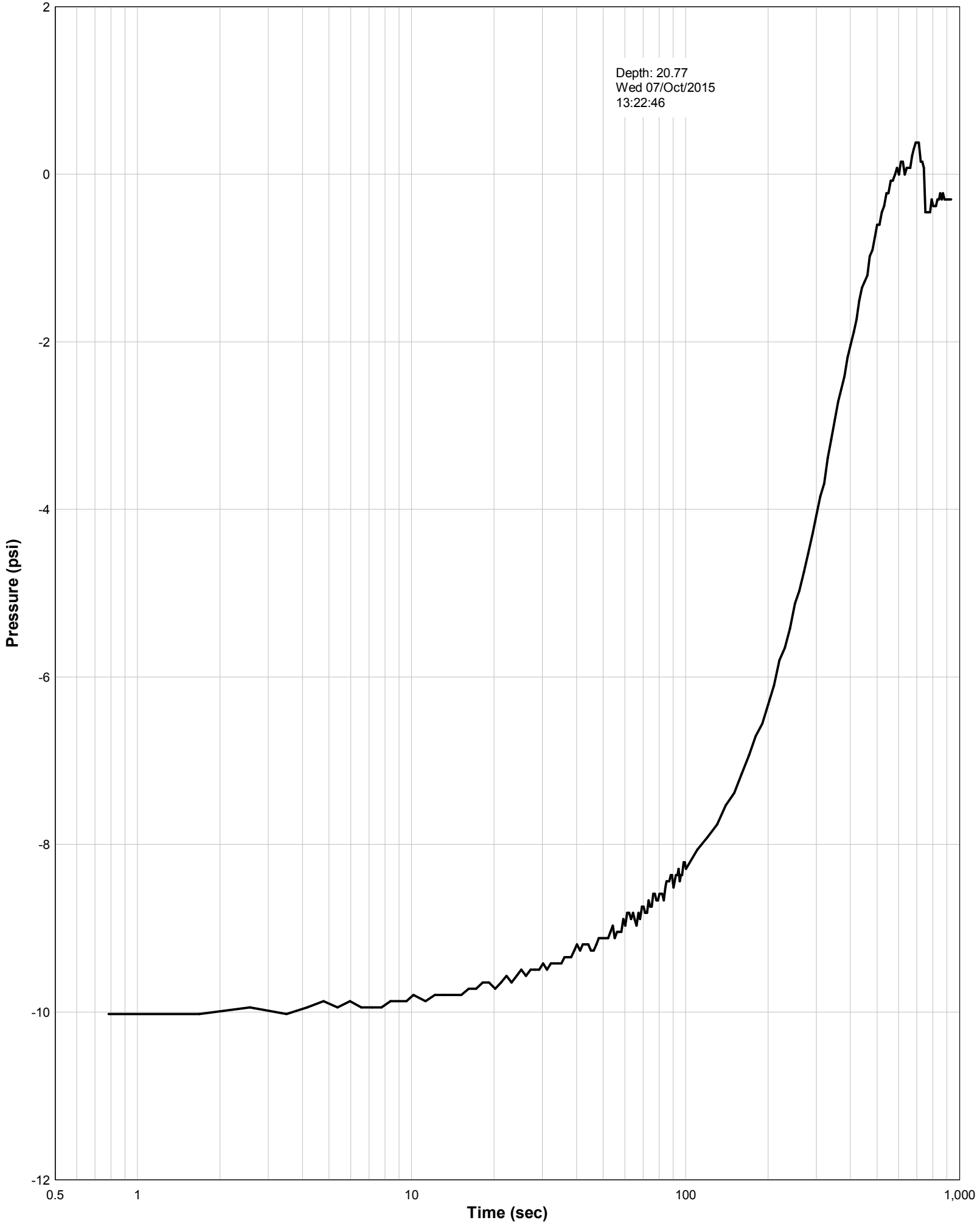
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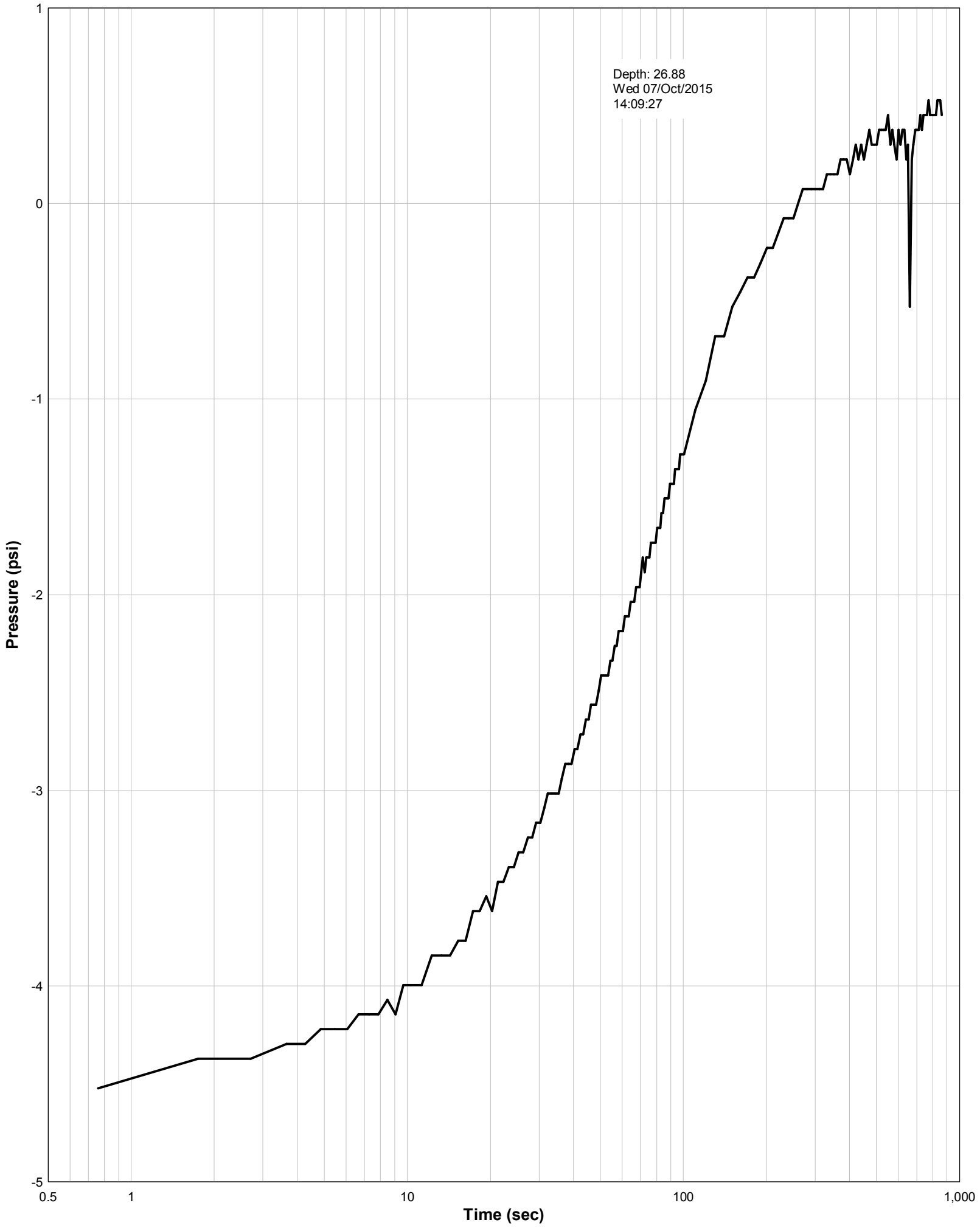
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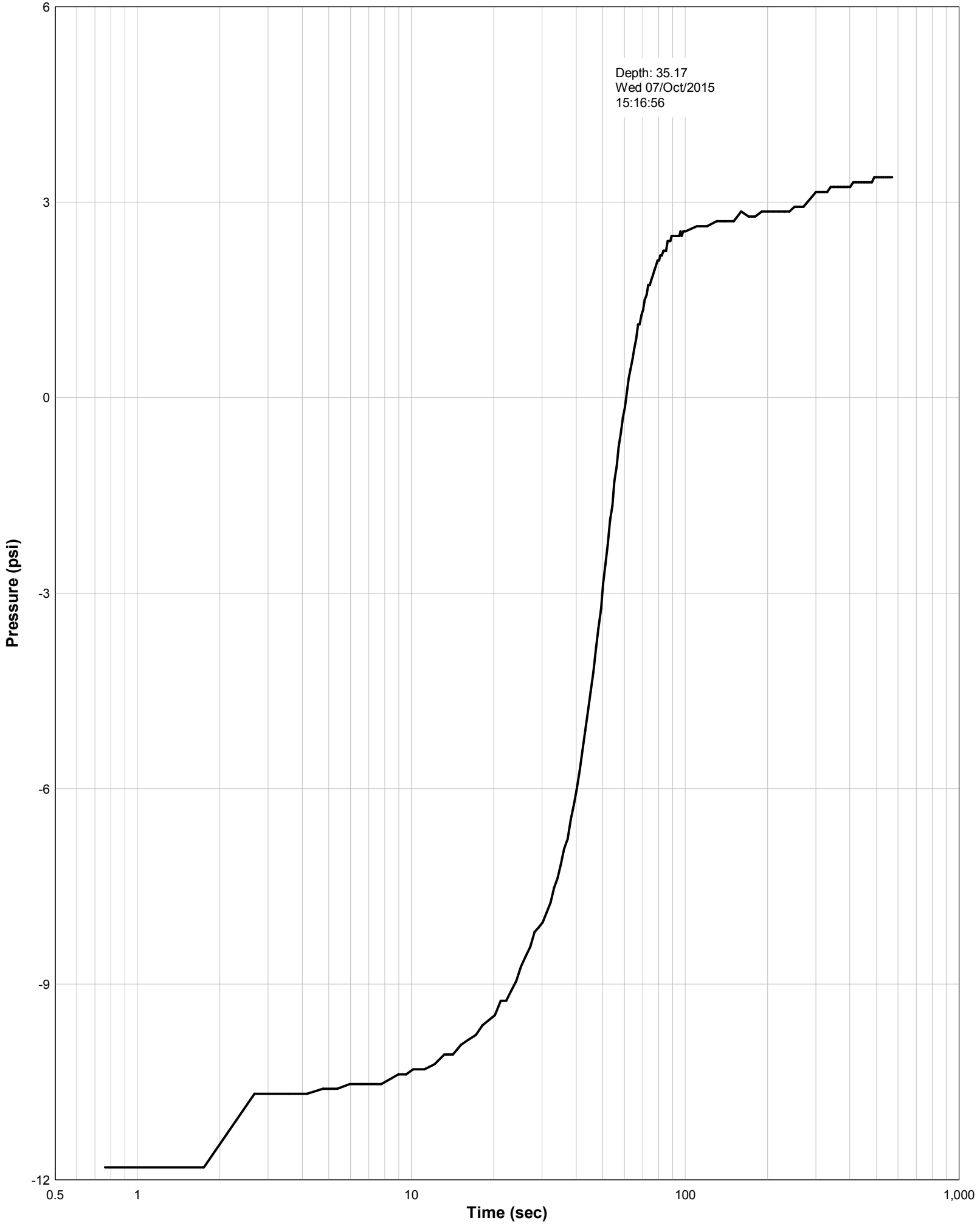
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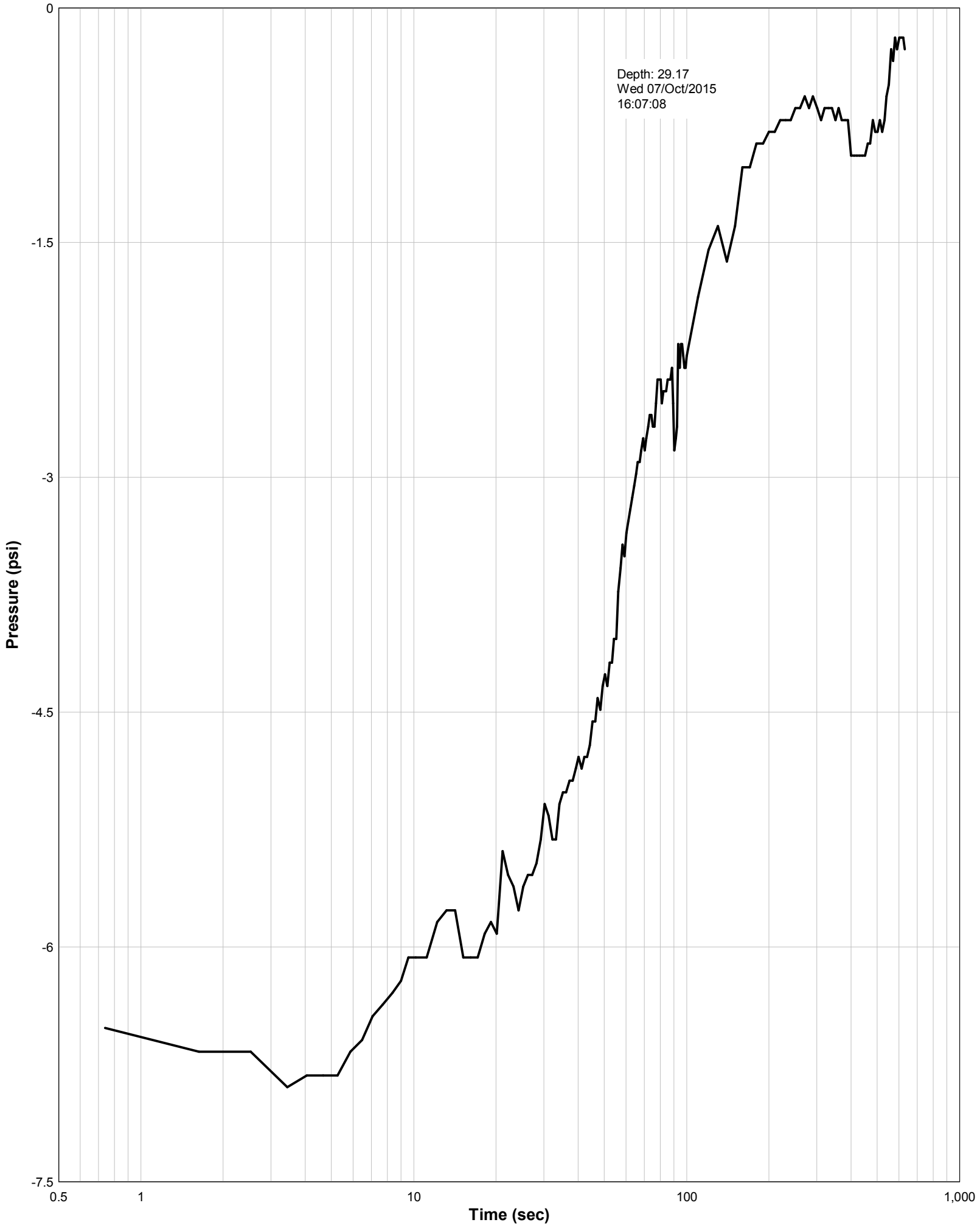
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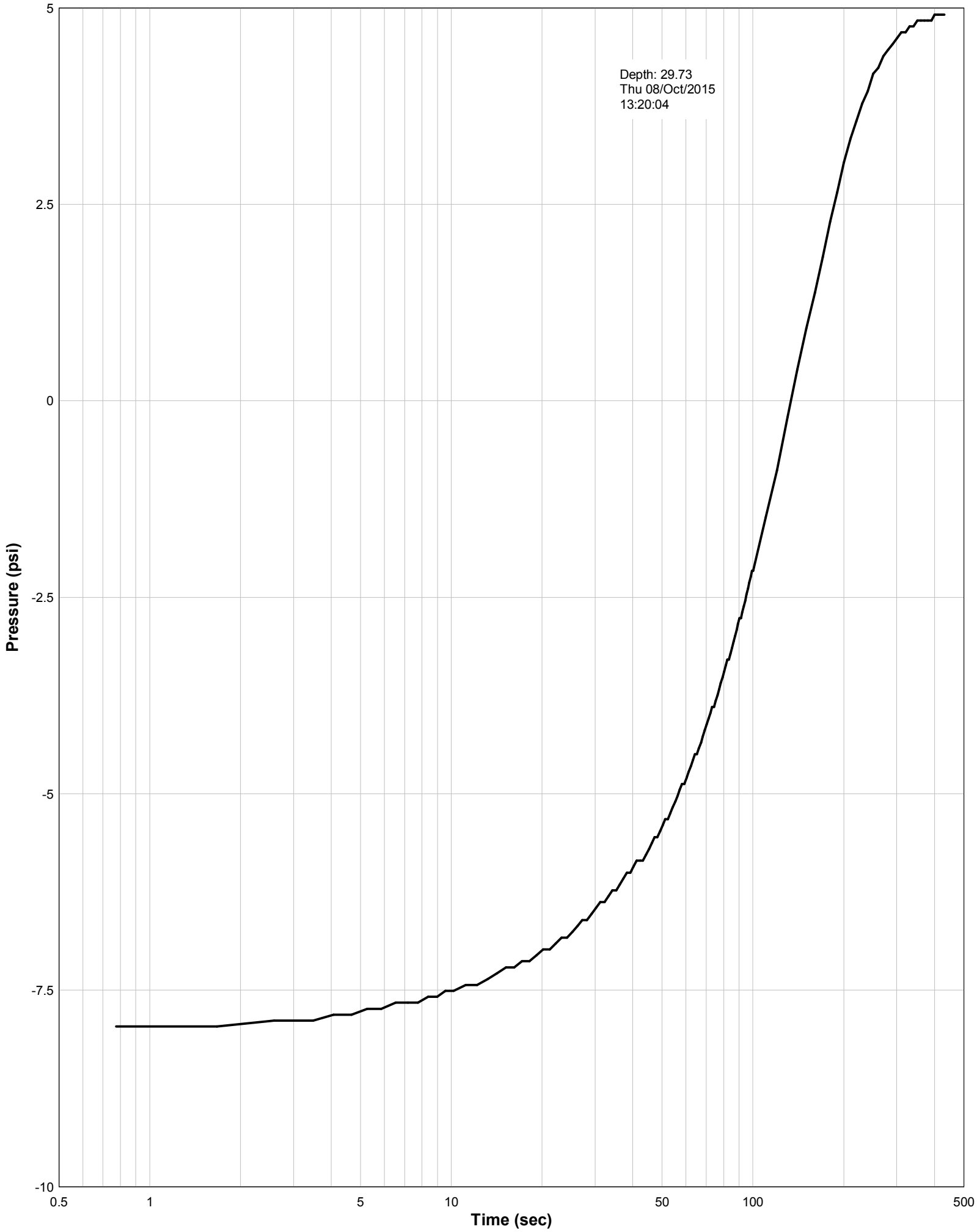
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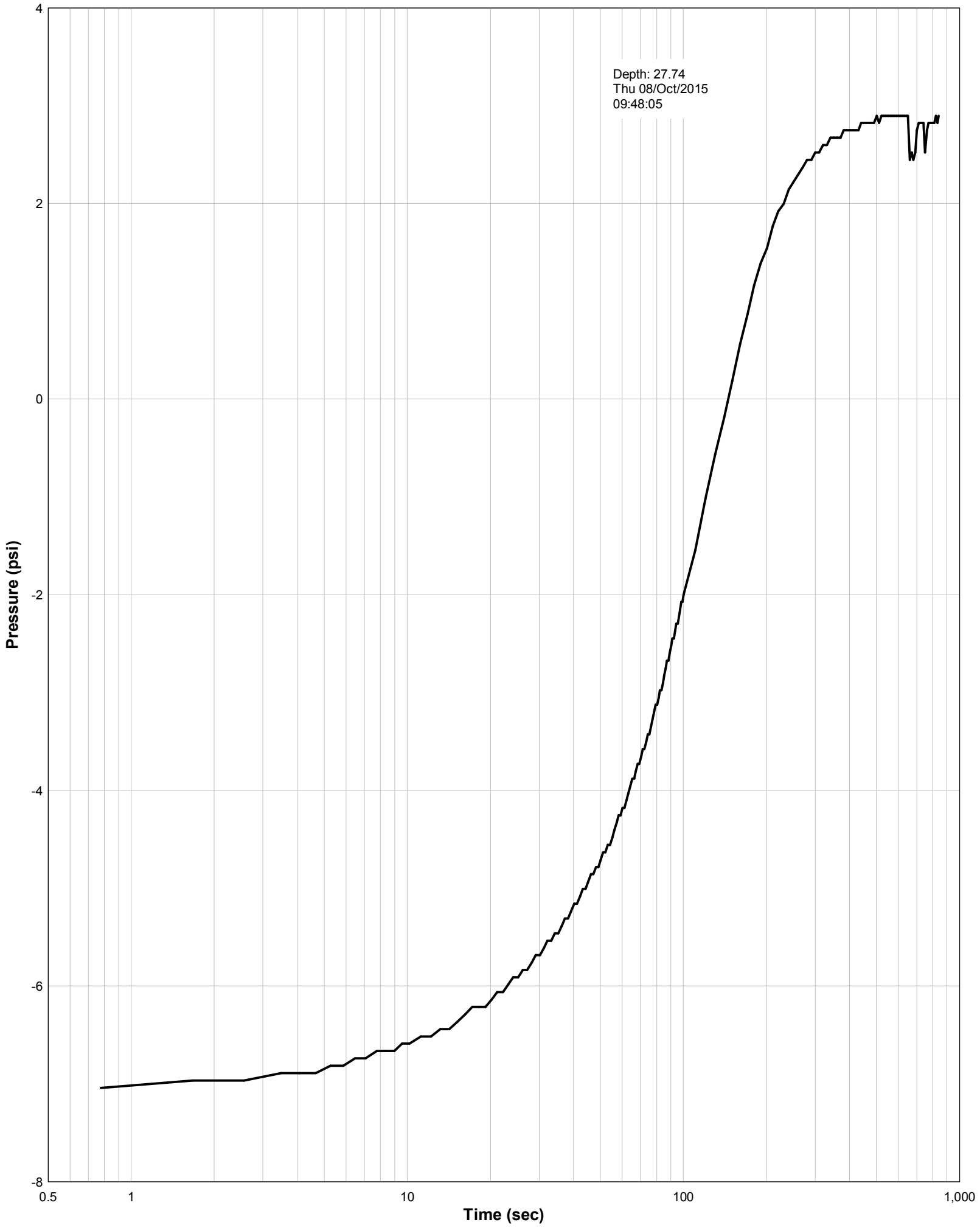
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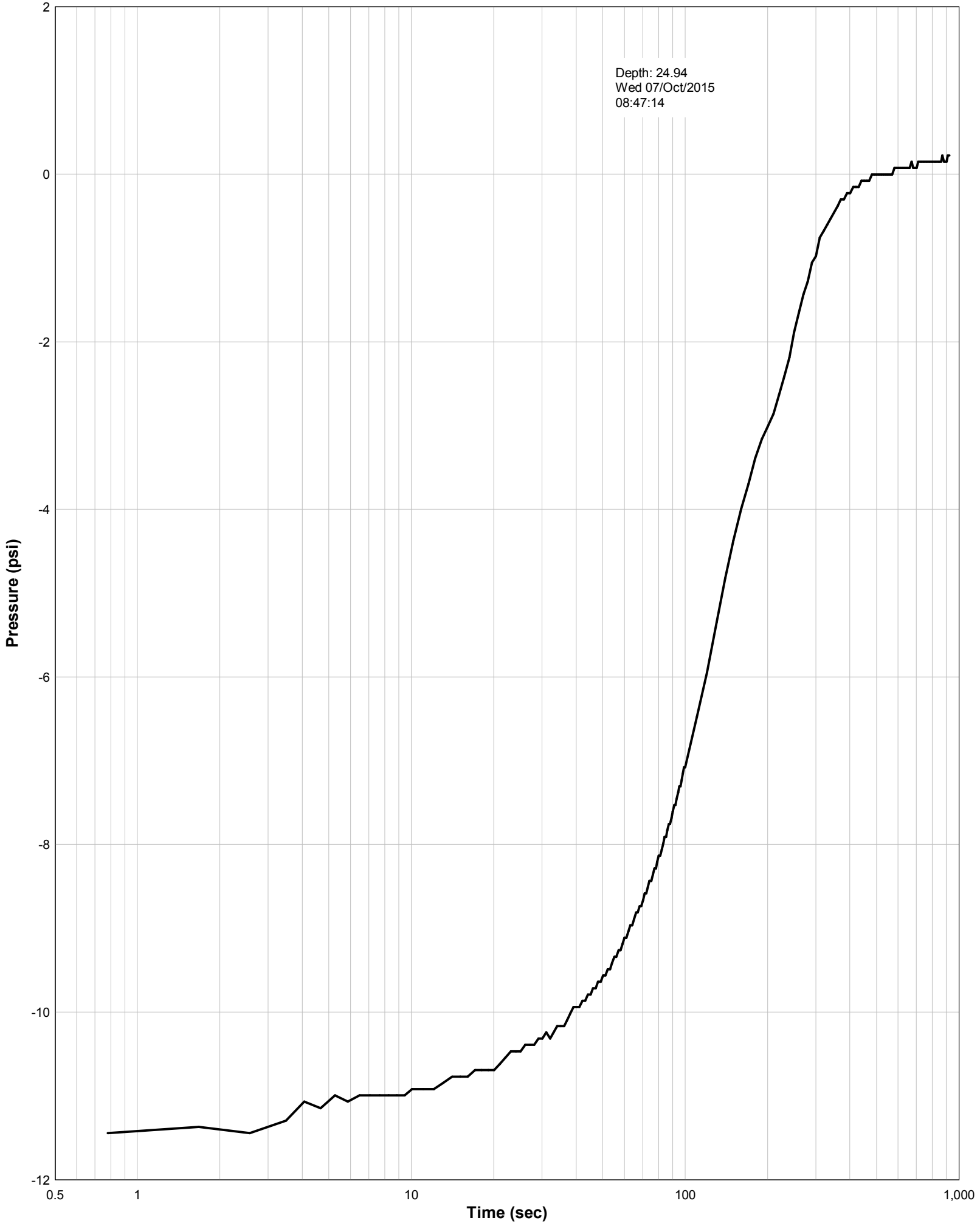
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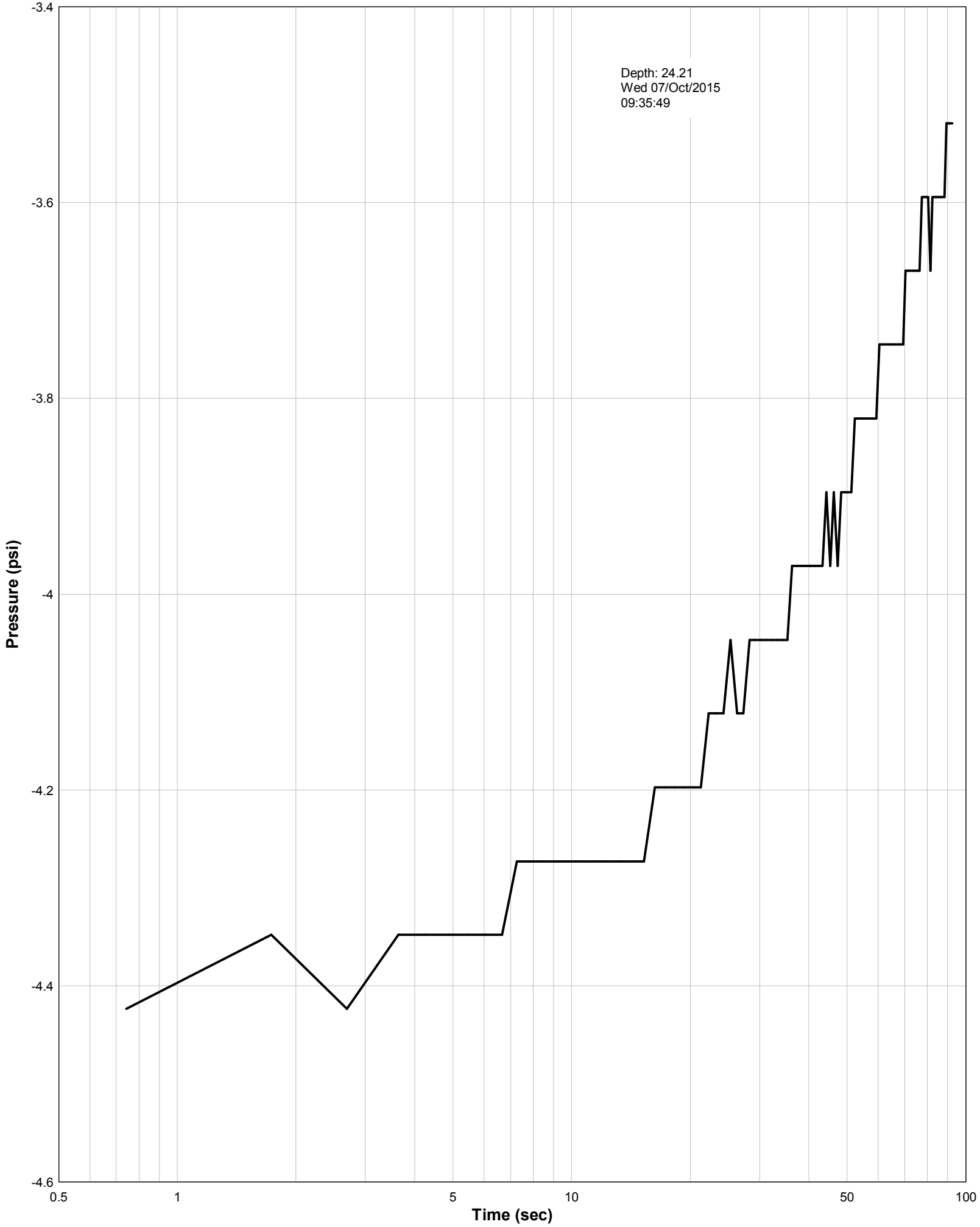
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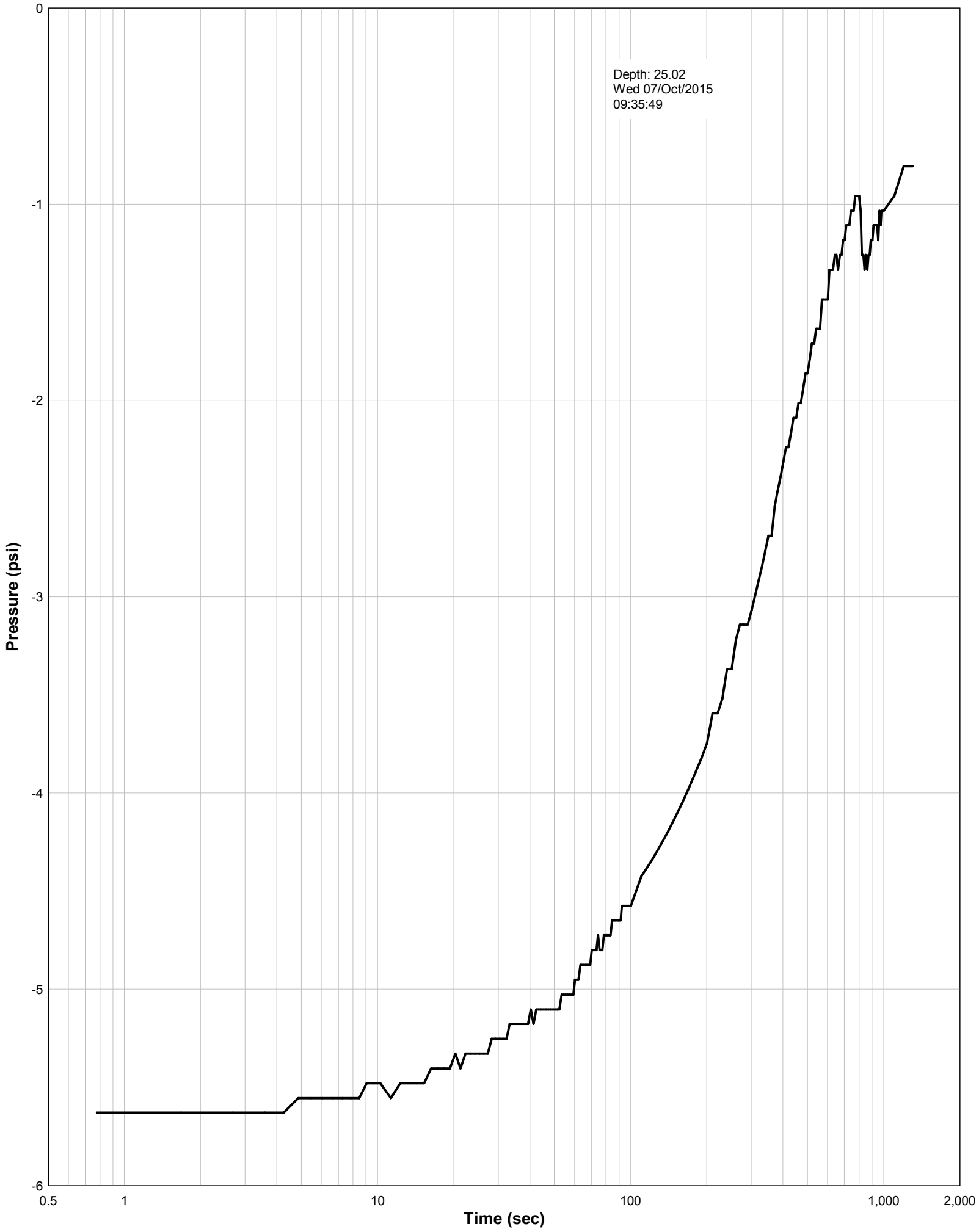
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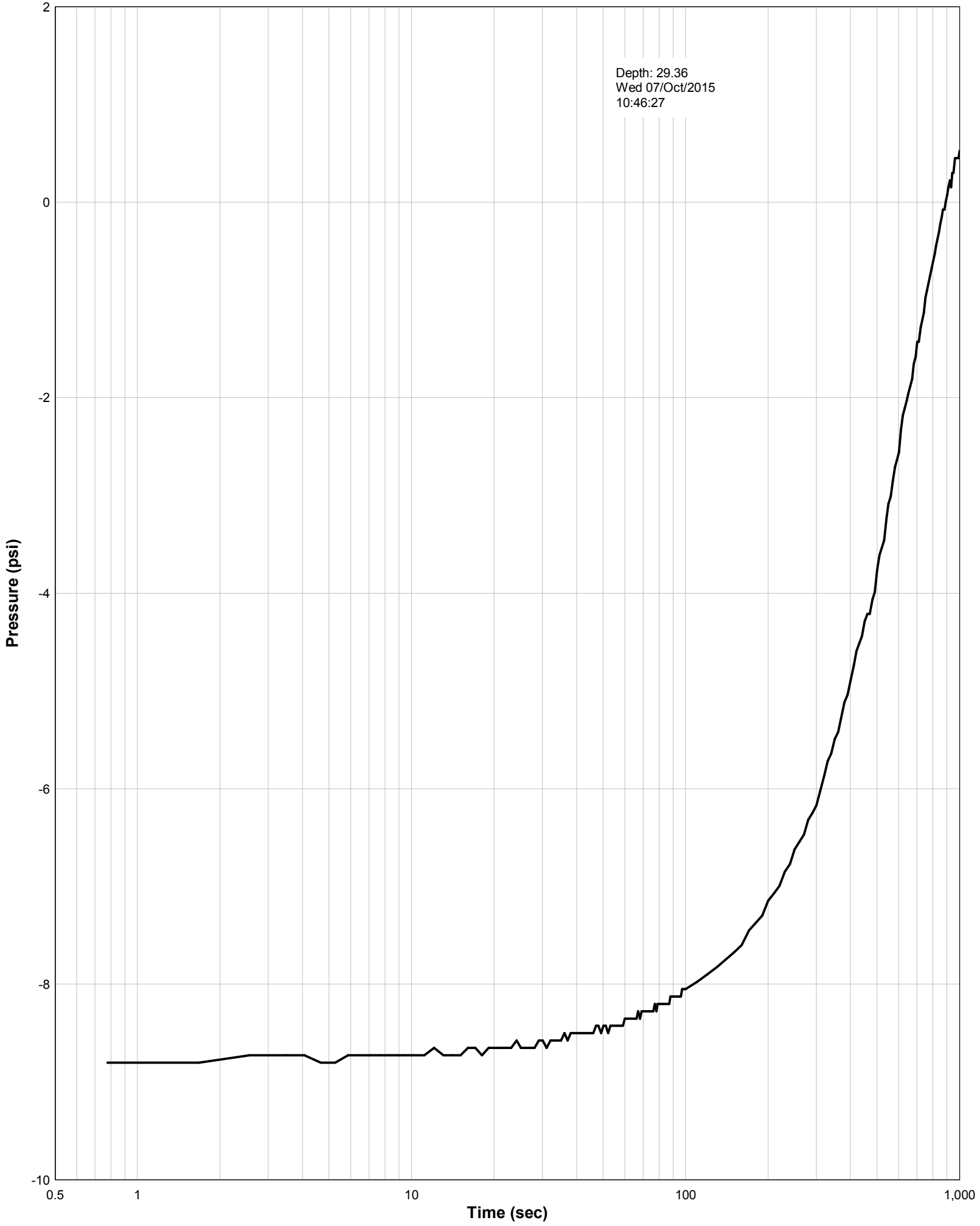
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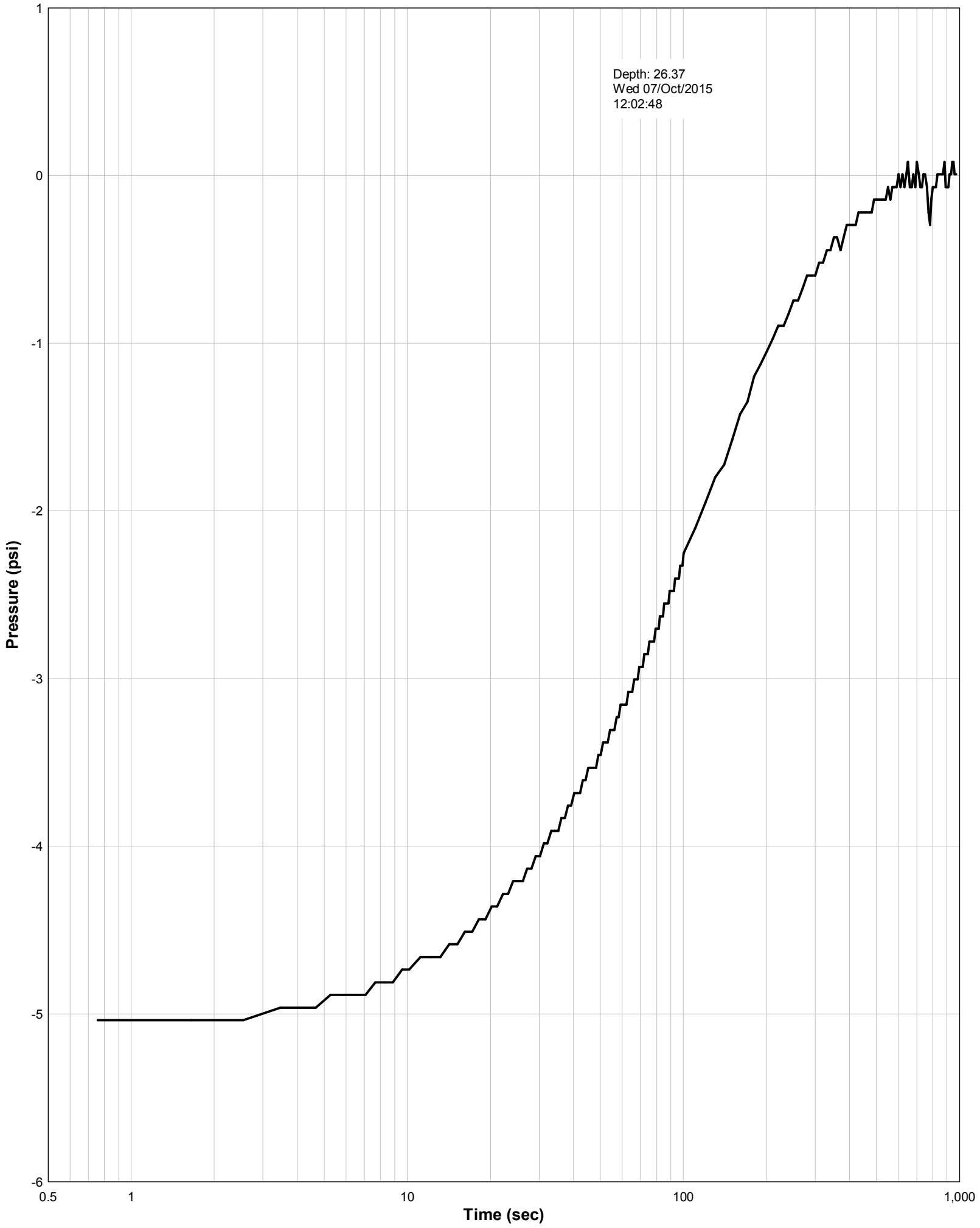
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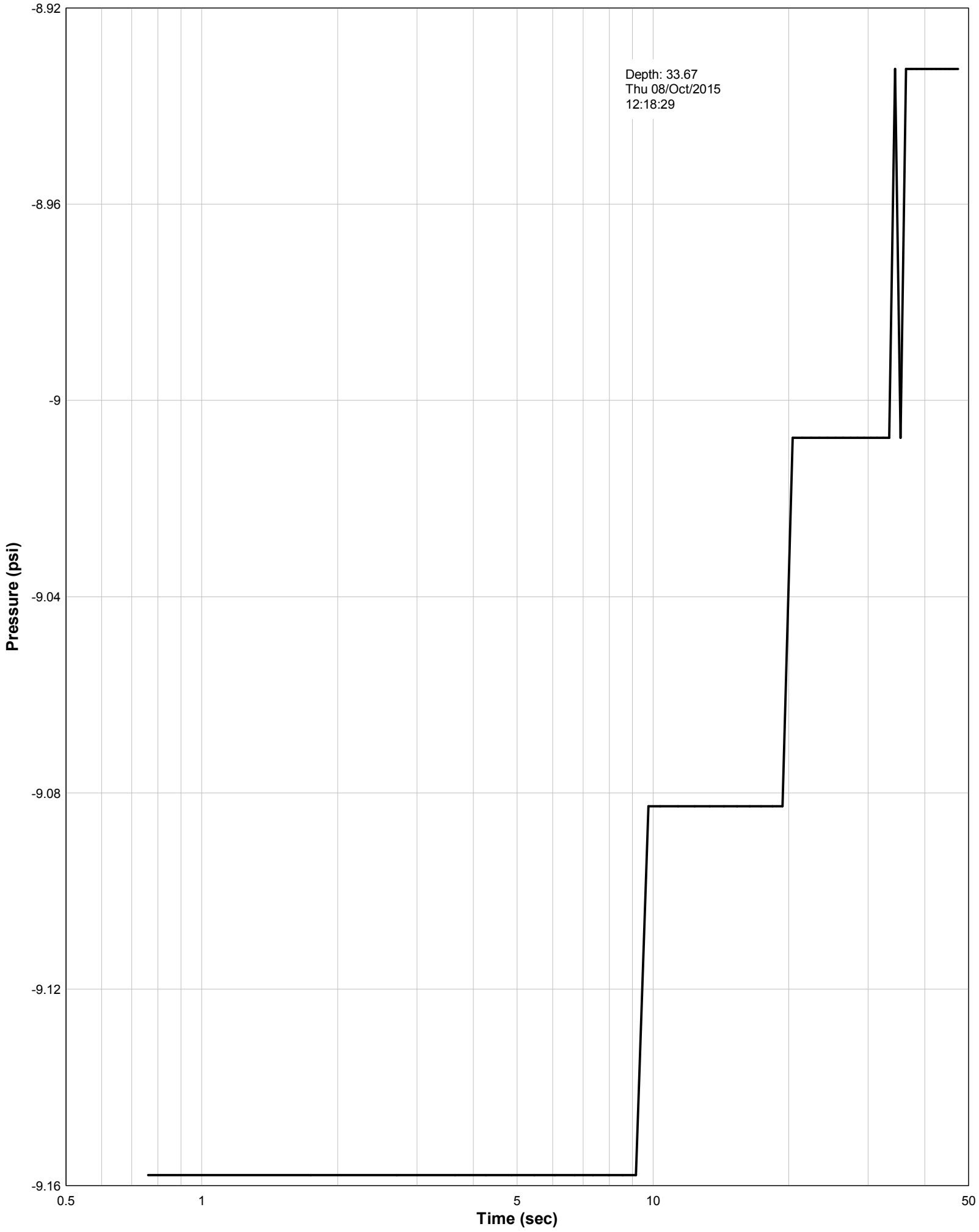
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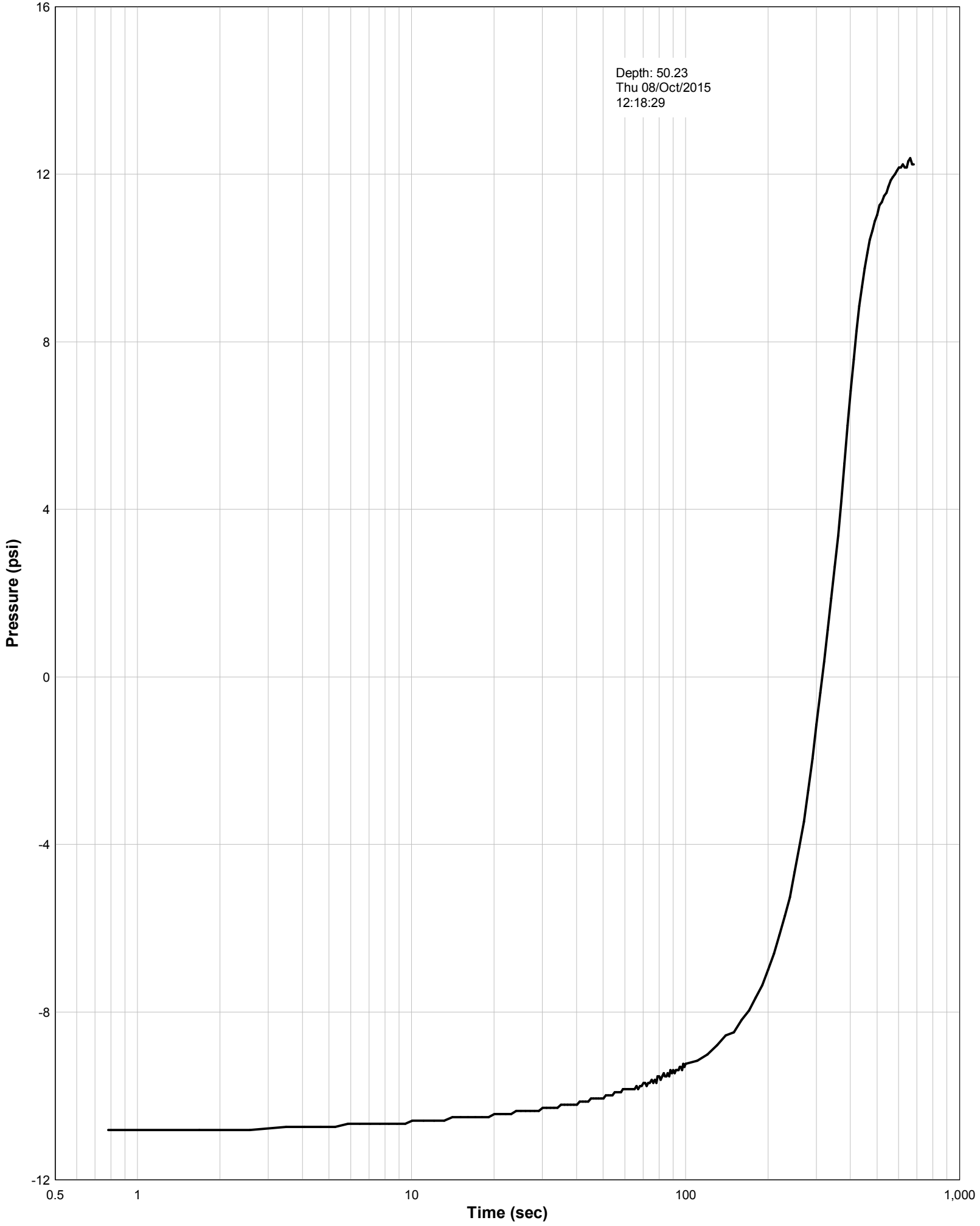
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Kehoe



Presented below is a list of formulas used for the estimation of various soil properties. The formulas are presented in SI unit system and assume that all components are expressed in the same units.

:: Unit Weight, g (kN/m³) ::

$$g = g_w \cdot \left(0.27 \cdot \log(R_f) + 0.36 \cdot \log(\frac{q_t}{p_a}) + 1.236 \right)$$

where g_w = water unit weight

:: Permeability, k (m/s) ::

$I_c < 3.27$ and $I_c > 1.00$ then $k = 10^{0.952-3.04 \cdot I_c}$

$I_c \leq 4.00$ and $I_c > 3.27$ then $k = 10^{-4.52-1.37 \cdot I_c}$

:: N_{SPT} (blows per 30 cm) ::

$$N_{60} = \left(\frac{q_c}{P_a} \right) \cdot \frac{1}{10^{1.1268-0.2817 \cdot I_c}}$$

$$N_{1(60)} = Q_{tn} \cdot \frac{1}{10^{1.1268-0.2817 \cdot I_c}}$$

:: Young's Modulus, Es (MPa) ::

$(q_t - \sigma_v) \cdot 0.015 \cdot 10^{0.55 \cdot I_c + 1.68}$

(applicable only to $I_c < I_{c_cutoff}$)

:: Relative Density, Dr (%) ::

$100 \cdot \sqrt{\frac{Q_{tn}}{k_{DR}}}$ (applicable only to SBT_n: 5, 6, 7 and 8 or $I_c < I_{c_cutoff}$)

:: State Parameter, ψ ::

$\psi = 0.56 - 0.33 \cdot \log(Q_{tn,cs})$

:: Peak drained friction angle, φ (°) ::

$\varphi = 17.60 + 11 \cdot \log(Q_{tn})$

(applicable only to SBT_n: 5, 6, 7 and 8)

:: 1-D constrained modulus, M (MPa) ::

If $I_c > 2.20$

$\alpha = 14$ for $Q_{tn} > 14$

$\alpha = Q_{tn}$ for $Q_{tn} \leq 14$

$M_{CPT} = \alpha \cdot (q_t - \sigma_v)$

If $I_c \leq 2.20$

$M_{CPT} = (q_t - \sigma_v) \cdot 0.0188 \cdot 10^{0.55 \cdot I_c + 1.68}$

:: Small strain shear Modulus, Go (MPa) ::

$G_0 = (q_t - \sigma_v) \cdot 0.0188 \cdot 10^{0.55 \cdot I_c + 1.68}$

:: Shear Wave Velocity, Vs (m/s) ::

$$V_s = \left(\frac{G_0}{\rho} \right)^{0.50}$$

:: Undrained peak shear strength, Su (kPa) ::

$N_{kt} = 10.50 + 7 \cdot \log(F_r)$ or user defined

$$S_u = \frac{(q_t - \sigma_v)}{N_{kt}}$$

(applicable only to SBT_n: 1, 2, 3, 4 and 9 or $I_c > I_{c_cutoff}$)

:: Remolded undrained shear strength, Su(rem) (kPa) ::

$S_{u(rem)} = f_s$ (applicable only to SBT_n: 1, 2, 3, 4 and 9 or $I_c > I_{c_cutoff}$)

:: Overconsolidation Ratio, OCR ::

$$k_{OCR} = \left[\frac{Q_{tn}^{0.20}}{0.25 \cdot (10.50 \cdot +7 \cdot \log(F_r))} \right]^{1.25}$$ or user defined

$OCR = k_{OCR} \cdot Q_{tn}$

(applicable only to SBT_n: 1, 2, 3, 4 and 9 or $I_c > I_{c_cutoff}$)

:: In situ Stress Ratio, Ko ::

$K_O = (1 - \sin\varphi') \cdot OCR^{\sin\varphi'}$

(applicable only to SBT_n: 1, 2, 3, 4 and 9 or $I_c > I_{c_cutoff}$)

:: Soil Sensitivity, S_t ::

$$S_t = \frac{N_S}{F_r}$$

(applicable only to SBT_n: 1, 2, 3, 4 and 9 or $I_c > I_{c_cutoff}$)

:: Effective Stress Friction Angle, φ' (°) ::

$\varphi' = 29.5° \cdot B_q^{0.121} \cdot (0.256 + 0.336 \cdot B_q + \log Q_t)$

(applicable for $0.10 < B_q < 1.00$)

References

- Robertson, P.K., Cabal K.L., Guide to Cone Penetration Testing for Geotechnical Engineering, Gregg Drilling & Testing, Inc., 5th Edition, November 2012
- Robertson, P.K., Interpretation of Cone Penetration Tests - a unified approach., Can. Geotech. J. 46(11): 1337–1355 (2009)

APPENDIX B

RESULTS OF FIELD EXPLORATION AND LABORATORY TESTING

APPENDIX B

RESULTS OF FIELD EXPLORATION AND LABORATORY TESTING

FIELD EXPLORATION

The soil conditions along the Levee were explored by GENTERRA Consultants, Inc. (GENTERRA) by the drilling to depths ranging from 31½ feet to 51½ feet below existing ground using a truck-mounted and a track-mounted drill rigs equipped with an 8-inch-diameter hollow stem auger. The approximate locations of the borings are shown on Figures 2-1 and 2-2.

The soils encountered were logged by GENTERRA's senior soil technician, and undisturbed and bulk samples were obtained for laboratory inspection and testing. The logs of the borings are presented in Figures B-1.1 through B-1.12; the depths at which undisturbed samples were obtained are indicated to the left of the boring logs. The number of blows required to drive the modified California sampler 12 inches and the hammer weight and drop are indicated on the logs. The soils are classified in accordance with the Unified Soil Classification System described in Figure B-2.

LABORATORY TESTING

Laboratory tests were assigned by GENTERRA on selected samples obtained from the borings to aid in the classification of the soils and to determine the pertinent engineering properties of the foundation soils and borrow materials from two borrow pits. The following tests were assigned:

Sieve Analysis
Percent Passing No. 200 Sieve
Moisture Content
Unit Weight
Direct Shear
Consolidation
Compaction
Chemical tests

All testing were done in general accordance with applicable ASTM specifications.

The field moisture content and dry density of the soils encountered were determined by performing tests on the undisturbed samples in accordance with ASTM Designations D2216 and D2937. The results of the tests are shown to the right of the boring logs.

To determine the grain size distribution of the soils and to aid in classifying the soils, sieve analyses were performed in accordance with ASTM Designation D422. The results of the sieve analyses are presented on Figures B-3.1 through B-3.8. In addition to complete sieve analyses, Percent Passing No. 200 sieve tests were performed in accordance with ASTM Designation D1140 to aid in classifying soils. The results are shown on the boring logs.

Direct shear tests were performed on selected undisturbed natural samples and remolded samples to determine the strength of the soils. The tests were performed at increased moisture content by soaking the sample and at various surcharge pressures. The tests were performed in accordance with ASTM Designation D3080. The results are presented on Figure B-4.

Confined consolidation tests were performed on undisturbed natural samples to determine the compressibility of the on-site soils. Water was added to the samples during the tests to illustrate the effect of moisture on the compressibility. The test was performed in accordance with ASTM Designation D2435. The results of the tests are presented on Figures B-5.1 and B-5.2.

The optimum moisture content and maximum dry density of the upper soils from on-site and borrow materials from borrow pits were determined by performing a compaction test on bulk samples obtained on-site and borrow pits. The test was performed in accordance with the ASTM Designation D1557. The results of the tests are presented on Figures A-6.1 through A-6.4.

Chemical tests were performed on two representative samples, to determine the corrosive nature of on-site materials. The results of the tests are presented on Figures A-7.

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/21/15	GROUND ELEV.	-124.6	BORING NO.	BH1
DATE FINISHED	10/21/15	GW DEPTH (FT)	24.0	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
	-125					Surface covered with loose soils			
		R	48		SM	**FILL - SILTY SAND** dense, dry, grayish brown, fine to medium grained	3.7	118.1	
5	-130	S	4		SM	**SILTY SAND** loose	4.5		30% passing No. 200 sieve
		R	8			loose, light gray	2.8	92.6	
10	-135	S	10			loose	3.2		
		R	33			medium dense, dry, light gray	4.1	104.7	
15	-140	S	11			grayish brown	11.4		
		R	29			moist to wet, light gray to gray, fine to medium grained	9.8	109.7	
20	-145	S	11		SC	**CLAYEY SAND** medium dense, moist to wet, gray, medium grained	30.6		
		R	21		CL	**LEAN CLAY** medium stiff, wet, gray, ~95% non dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~5% fine sand	33.6	97.3	
25	-150	S	7		SC	**CLAYEY SAND** loose, wet, gray, medium grained	23.2		
		R	22		SM	**SILTY SAND** medium dense, wet, gray	25.2	102.7	
30	-155	S	9		CL-ML	**SILTY CLAY** stiff, wet, gray, ~90% none to slow dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~10% fine sand	36.9		
						End of Boring at 31½ feet. Groundwater encountered at a depth of 24 feet below the existing grade. Boring backfilled with soil cuttings and tamped.			
35	-160					Elevations are approximate and based on topographic map developed using Aerial Photogrammetry performed on September 2, 2015 by the subcontractor of PB. The survey was performed in the State Plane Zone VI, North American Horizontal Datum of 1983 (NAD83) and North American Vertical Datum of 1988 (NAVD88).			

SAMPLE TYPES:
R RING SAMPLE
S SPT SAMPLE
B BULK SAMPLE
T TUBE SAMPLE

Groundwater

MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

GENTERRA CONSULTANTS, INC.

FIGURE B-1.1

BORING LOG_CEL 393-PB CVSC IMPROVEMENTS.GPJ TESTING.GDT 3/24/16

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/19/15	GROUND ELEV.	-120.7	BORING NO.	BH2
DATE FINISHED	10/19/15	GW DEPTH (FT)	23.8	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
						Surface covered with loose soils			
	-125	R	6		SM	**FILL - SILTY SAND** very loose, dry to moist, grayish brown, fine grained	9.0	99.7	
5		S	4		CL-ML	**SILTY CLAY** soft, dry to moist, grayish brown, ~90% none to slow dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~10% fine sand	20.0		
		R	8		CL-ML	**SANDY SILTY CLAY** medium stiff, dry to moist, grayish brown, ~65% none to slow dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~35% fine sand	17.0	98.8	
	-130								
10		S	9		SM	**SILTY SAND** loose, moist, grayish brown, fine grained	5.7		
		R	24		CL-ML	**SILTY CLAY** very stiff, moist, dary gray, ~90% none to slow dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~10% fine sand	14.2	107.9	
	-135								
15		S	10		CL	**LEAN CLAY** stiff, moist, dark gray, ~95% none dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~5% fine sand	31.1		
		R	24		ML	**SANDY SILT** very stiff, moist, dark gray, ~65% slow dilatancy, low toughness, low plasticity, low dry strength fines, ~35% fine sand	27.7	93.9	
	-140								
20		S	18		SM	**SILTY SAND** medium dense, moist, dark gray, fine grained	23.5		
		R	23			moist to wet	21.5	103.8	
	-145								
25		S	21			wet	28.5		
		R	24		CL	**LEAN CLAY** stiff, wet, dark gray, ~95% none to slow dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~5% fine sand	32.6	93.0	
	-150						29.3		
30									
						End of Boring at 31½ feet. Groundwater encountered at a depth of 23.8 feet below the existing grade. Boring backfilled with soil cuttings and tamped.			
35	-155								
	-160								

SAMPLE TYPES:
R RING SAMPLE
S SPT SAMPLE
B BULK SAMPLE
T TUBE SAMPLE

Groundwater
MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

GENTERRA CONSULTANTS, INC.

FIGURE B-1.2

BORING LOG_CEL 393-PB CVSC IMPROVEMENTS.GPJ TESTING.GDT 3/24/16

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/19/15	GROUND ELEV.	-100.0	BORING NO.	BH3
DATE FINISHED	10/19/15	GW DEPTH (FT)	31.8	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
						Surface covered with loose soils			
		R	20		SM	**FILL - SILTY SAND** medium dense, dry, grayish brown, fine grained	4.0	103.4	24.1% passing No. 200 sieve
5	-105	S	8			loose	5.1		
		R	25		SM	**SILTY SAND** medium dense, dry, grayish brown, fine grained	8.2	103.8	
10	-110	S	4			very loose	4.7		
		R	26			medium dense	6.2	109.9	
15	-115	S	8			loose	10.4		
		R	33			medium dense, light grayish brown	10.4	101.9	
20	-120	S	11				4.9		
		R	59			dense, dry to moist	5.8	105.6	
25	-125	S	17			moist to wet, grayish brown	14.6		
		R	59		SP-SM	**POORLY GRADED SAND with Silt** dense, dry to moist, light gray, fine to medium grained	20.1	109.1	5.1% passing No. 200 sieve
30	-130	S	14			medium dense, moist to wet, gray	25.8		
		R	17		SM	**SILTY SAND** medium dense, wet, gray, fine grained	32.0	92.2	
35	-135	S	19		SP-SM	**POORLY GRADED SAND with Silt** medium dense, wet, dark gray, fine to medium grained	28.4		
		R	58			dense	22.3	108.2	11.5% passing No. 200 sieve

SAMPLE TYPES:
- R RING SAMPLE
- S SPT SAMPLE
- B BULK SAMPLE
- T TUBE SAMPLE

Groundwater

MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

GENTERRA CONSULTANTS, INC.

FIGURE B-1.3a

BORING LOG_CEL 393-PB CVSC IMPROVEMENTS.GPJ TESTING.GDT 3/24/16

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/19/15	GROUND ELEV.	-100.0	BORING NO.	BH3
DATE FINISHED	10/19/15	GW DEPTH (FT)	31.8	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
		S	35				18.5		
		R	32			medium dense	17.2	116.3	
45	-145	S	36		SM	**SILTY SAND** dense, wet, dark gray, fine grained	27.5		
		R	82			very dense	28.5	98.5	
50	-150	S	8		CL	**LEAN CLAY** medium stiff, wet, dark gray, ~95% none dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~5% fine sand	39.4		
55	-155					End of Boring at 51½ feet. Groundwater encountered at a depth of 31.8 feet below the existing grade. Boring backfilled with soil cuttings and tamped.			
60	-160								
65	-165								
70	-170								
75	-175								

SAMPLE TYPES:
R RING SAMPLE
S SPT SAMPLE
B BULK SAMPLE
T TUBE SAMPLE

Groundwater
MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

GENTERRA CONSULTANTS, INC.

FIGURE B-1.3b

BORING LOG_CEL 393-PB CVSC IMPROVEMENTS.GPJ TESTING.GDT 3/24/16

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/22/15	GROUND ELEV.	-119.1	BORING NO.	BH4
DATE FINISHED	10/22/15	GW DEPTH (FT)	14.4	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
0	-120					Surface covered with loose soils			
		R	22		SP-SM	**POORLY GRADED SAND with Silt** medium dense, dry to moist, light gray, fine to medium grained	2.8	106.5	10.5% passing No. 200 sieve
5	-125	S	10			loose	3.7		
		R	48			dense	12.8	108.4	
10	-130	S	13		SM	**SILTY SAND** medium dense, moist to wet, dark gray, fine grained	24.2		
		R	17				26.8	94.2	
15	-135	S	10		CL-ML	**SILTY CLAY** stiff, wet, gray, ~95% slow dilatancy, medium toughness, low to medium plasticity, low dry strength fines, ~5% fine sand	31.4		
		R	26		SM	**SILTY SAND** medium dense, wet, dark gray, fine grained	26.4	101.4	
20	-140	S	20				23.8		
		R	49		SP-SM	**POORLY GRADED SAND with Silt** dense, wet, dark gray, fine to medium grained	16.3	117.3	
25	-145	S	20		ML	**SILT with Sand** very stiff, wet, dark gray, ~80% slow dilatancy, low toughness, non-plastic low dry strength fines and ~20% fins sand	26.7		81.2% passing No. 200 sieve
		R	26				27.4	100.5	
30	-150	S	17		ML	**SANDY SILT** very stiff, wet, dark gray, ~65% slow dilatancy, low toughness, non-plastic, low dry strength fines, ~35% fine sand	32.4		
						End of Boring at 31½ feet.			
35	-155					Groundwater encountered at a depth of 14.4 feet below the existing grade.			
						Boring backfilled with soil cuttings and tamped.			

SAMPLE TYPES:
- R RING SAMPLE
- S SPT SAMPLE
- B BULK SAMPLE
- T TUBE SAMPLE

▼ Groundwater

MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

GENTERRA CONSULTANTS, INC.

FIGURE B-1.4

BORING LOG_CEL 393-PB CVSC IMPROVEMENTS.GPJ TESTING.GDT 3/24/16

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/19/15	GROUND ELEV.	-91.4	BORING NO.	BH5
DATE FINISHED	10/19/15	GW DEPTH (FT)	32.7	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
						Surface covered with loose soils			
	-95	R	25		SP-SM	**FILL - POORLY GRADED SAND with Silt** medium dense, dry, light brownish gray, fine grained	0.8	101.8	
5		S	6			loose	2.4		
	-100	R	16		SP-SM	**POORLY GRADED SAND with Silt** medium dense, dry, light brownish gray, fine grained	1.5	99.7	
10		S	4			very loose	1.8		6.5% passing No. 200 sieve
	-105	R	8		SM	**SILTY SAND** loose, moist, grayish brown, fine grained	6.4	97.2	
15		S	10			dry to moist, grayish brown, fine grained	5.0		
	-110	R	35		SP-SM	**POORLY GRADED SAND with Silt** medium dense, moist, grayish brown, fine grained	4.9	113.1	
20		S	7		SM	**SILTY SAND** loose, moist, grayish brown, fine grained	18.1		
	-115	R	30				21.7	106.6	
25		S	8		CL-ML	**SILTY CLAY with Sand** medium stiff, moist, gray, ~85% none to slow dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~15% fine sand	26.5		
	-120	R	20			No recovery			
30		S	23		CL-ML	**SILTY CLAY** very stiff, moist, gray, ~90% none dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~10% fine sand	16.8		
	-125	R	28		SM	**SILTY SAND** medium dense, wet, dark gray, fine to medium grained	30.3	96.7	
35		S	30				16.2		
	-130	R	35			wet, dark gray, fine to medium grained, trace of a clay layer	30.3	98.5	

SAMPLE TYPES:
R RING SAMPLE
S SPT SAMPLE
B BULK SAMPLE
T TUBE SAMPLE

▼ Groundwater

MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

GENTERRA CONSULTANTS, INC.

FIGURE B-1.5a

BORING LOG_CEL 393-PB CVSC IMPROVEMENTS.GPJ TESTING.GDT 3/24/16

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/19/15	GROUND ELEV.	-91.4	BORING NO.	BH5
DATE FINISHED	10/19/15	GW DEPTH (FT)	32.7	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
		S	27			dark gray, fine grained	25.7		
	-135	R	53		SP-SM	**POORLY GRADED SAND with Silt** medium dense, wet, dark gray, fine to medium grained	22.4	106.2	5.6% passing No. 200 sieve
45		S	36		SM	**SILTY SAND** dense, wet, dark gray,	25.1		
	-140	R	90/11"		SP-SM	**POORLY GRADED SAND with Silt** very dense, wet, dark gray, fine to medium grained	24.1	107.8	
50		S	22		SM	**SILTY SAND** medium dense, wet, dark gray, fine grained	29.7		
	-145					End of Boring at 51½ feet.			
55						Groundwater encountered at a depth of 32.7 feet below the existing grade.			
	-150					Boring backfilled with soil cuttings and tamped.			
60									
	-155								
65									
	-160								
70									
	-165								
75									
	-170								

SAMPLE TYPES:
R RING SAMPLE
S SPT SAMPLE
B BULK SAMPLE
T TUBE SAMPLE

Groundwater

MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

GENTERRA CONSULTANTS, INC.

FIGURE B-1.5b

BORING LOG_CEL 393-PB CVSC IMPROVEMENTS.GPJ TESTING.GDT 3/24/16

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/21/15	GROUND ELEV.	-127.5	BORING NO.	BH6
DATE FINISHED	10/21/15	GW DEPTH (FT)	27.8	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
0						Surface covered with loose soils			
	-130	R	16		SM	**FILL - SILTY SAND** loose, dry, light gray to grayish brown, fine to medium grained	0.9	95.4	
5		S	9				2.5		42.4% passing No. 200 sieve
	-135	R	15		SM	**SILTY SAND** loose, dry, light gray to grayish brown, fine to medium grained	3.1	102.6	
10		S	12			medium dense, dry to moist, grayish brown, fine grained	5.5		
	-140	R	20				3.6	101.0	
15		S	16		SP	**POORLY GRADED SAND** medium dense, dry to moist, grayish brown, fine to medium grained	2.4		
	-145	R	31		SP-SM	**POORLY GRADED SAND with Silt** medium dense, dry to moist, grayish brown, fine grained	12.8	109.0	
20		S	14		SM	**SILTY SAND** medium dense, moist to wet, gray to grayish brown, fine to medium grained	19.4		
	-150	R	64				8.6	115.5	
25		S	22			wet, gray to dark gray	23.6		
	-155 ▼	R	65		SP-SM	**POORLY GRADED SAND with Silt** medium dense, wet, gray, fine to medium grained	18.9	116.7	
30		S	25				23.8		
	-160	R	66		SM	**SILTY SAND** dense, moist to wet, gray to grayish brown, fine to medium grained	21.4	107.8	
35		S	33				19.6		
	-165	R	46				23.8	103.6	

SAMPLE TYPES:
R RING SAMPLE
S SPT SAMPLE
B BULK SAMPLE
T TUBE SAMPLE

▼ Groundwater
MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

GENTERRA CONSULTANTS, INC.

FIGURE B-1.6a

BORING LOG_CEL 393-PB CVSC IMPROVEMENTS.GPJ TESTING.GDT 3/24/16

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/21/15	GROUND ELEV.	-127.5	BORING NO.	BH6
DATE FINISHED	10/21/15	GW DEPTH (FT)	27.8	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
		S	34				25.3		
	-170								
		R	85/10"			grayish brown, fine grained	23.1	108.8	
45									
		S	9		CL	**LEAN CLAY** stiff, wet, gray, 95% none dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~5% fine sand	35.6		
	-175								
		R	19				33.6	98.7	
50									
		S	74		SP-SM	**POORLY GRADED SAND with Silt** very dense, gray, wet, fine to medium grained	22.1		
	-180								
55						End of Boring at 51½ feet. Groundwater encountered at a depth of 27.8 feet below the existing grade. Boring backfilled with soil cuttings and tamped.			
	-185								
60									
	-190								
65									
	-195								
70									
	-200								
75									
	-205								

SAMPLE TYPES:
[R] RING SAMPLE
[S] SPT SAMPLE
[B] BULK SAMPLE
[T] TUBE SAMPLE

Groundwater

MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

GENTERRA CONSULTANTS, INC.

FIGURE B-1.6b

BORING LOG CEL 393-PB CVSC IMPROVEMENTS.GPJ TESTING.GDT 3/24/16

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/20/15	GROUND ELEV.	-111.2	BORING NO.	BH7
DATE FINISHED	10/20/15	GW DEPTH (FT)	26.0	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
						Surface covered with loose soils			
	-115	R	11		SM	**FILL - SILTY SAND** loose, dry to moist, light gray to gray, fine grained	4.0	100.9	
5		S	7				4.9		
	-120	R	9			fine to medium grained	1.8	95.9	
10		S	12		SP-SM	**POORLY GRADED SAND with Silt** medium dense, dry, grayish brown, fine grained	1.5		
	-125	R	35		SM	**SILTY SAND** medium dense, dry to moist, gray to grayish brown, fine to medium grained	8.0	101.5	
15		S	12			moist, grayish brown, fine grained	10.8		
	-130	R	46		SP-SM	**POORLY GRADED SAND with Silt** medium dense, moist, yellowish brown, fine to medium grained	4.8	113.1	
20		S	15			moist to wet, gray, fine to medium grained	13.1		
	-135	R	17		SM	**SILTY SAND** medium dense, moist to wet, fine to medium grained	25.2	102.2	
25		S	27		SP-SM	**POORLY GRADED SAND with Silt** medium dense, wet, gray	22.9		
	-140	R	65		SP	**POORLY GRADED SAND** dense, wet, gray, medium grained	18.7	113.5	
30		S	9		CL	**LEAN CLAY** stiff, wet, gray, ~90% none dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~10% fine sand	31.4		
	-145	R	35		SM	**SILTY SAND** medium dense, wet, gray, fine to medium grained	24.1	102.7	23.5% passing No. 200 sieve
35		S	23				25.0		
	-150	R	48		SP-SM	**POORLY GRADED SAND with Silt** medium dense, wet, gray, fine to medium grained	21.5	105.9	

SAMPLE TYPES:
R RING SAMPLE
S SPT SAMPLE
B BULK SAMPLE
T TUBE SAMPLE

▼ Groundwater
MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

GENTERRA CONSULTANTS, INC.

FIGURE B-1.7a

BORING LOG_CEL 393-PB CVSC IMPROVEMENTS.GPJ TESTING.GDT 3/24/16

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/20/15	GROUND ELEV.	-111.2	BORING NO.	BH7
DATE FINISHED	10/20/15	GW DEPTH (FT)	26.0	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
		S	22				34.4		
	-155	R	35		SM	**SILTY SAND** medium dense, wet, gray, fine to medium grained	21.9	110.4	
45		S	60		SP-SM	**POORLY GRADED SAND with Silt** very dense, wet, gray, medium grained	17.7		
	-160	R	26			medium dense	16.5	105.6	
50		S	44		SM	**SILTY SAND** wet, gray, fine to medium grained	26.0		
	-165					End of Boring at 51½ feet. Groundwater encountered at a depth of 26 feet below the existing grade. Boring backfilled with soil cuttings and tamped.			
55									
	-170								
60									
	-175								
65									
	-180								
70									
	-185								
75									
	-190								

SAMPLE TYPES:
R RING SAMPLE
S SPT SAMPLE
B BULK SAMPLE
T TUBE SAMPLE

Groundwater
MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

GENTERRA CONSULTANTS, INC.

FIGURE B-1.7b

BORING LOG_CEL 393-PB CVSC IMPROVEMENTS.GPJ TESTING.GDT 3/24/16

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/22/15	GROUND ELEV.	-129.2	BORING NO.	BH8
DATE FINISHED	10/22/15	GW DEPTH (FT)	7.9	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
	-130					Surface covered with loose soils			
		R	12		SM	**SILTY SAND** loose, dry to moist, grayish brown, fine grained	11.6	100.1	49.2% passing No. 200 sieve
5	-135	S	3		CL	**LEAN CLAY with Sand** soft, wet, dark gray, ~80% none dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~20% fine sand	31.5		
		R	13		SP-SM	**POORLY GRADED SAND with Silt** loose, wet, gray, fine to medium grained	25.1	98.9	
10	-140	S	14				0.9		
		R	6		CL	**LEAN CLAY with Sand** soft, wet, gray, ~80% none to slow dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~20% fine sand	32.8	94.1	
15	-145	S	11		CL	**SANDY LEAN CLAY** stiff, wet, gray, ~65% none dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~35% fine sand	34.2		
		S	24		SM	**SILTY SAND** medium dense, wet, dark gray, fine to medium grained	25.6		21.8% passing No. 200 sieve
20	-150	S	22				17.6		
		S	21		CL	**LEAN CLAY** very stiff, wet, gray, ~90% none to slow dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~10% fine sand	31.6		
25	-155	S	18				32.3		
		S	17		CL	**LEAN CLAY with Sand** very stiff, wet, gray, ~80% none to slow dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~20% fine sand	29.6		
30	-160	S	12		SC	**CLAYEY SAND** medium dense, wet, gray, fine grained	28.1		
						End of Boring at 31½ feet. Groundwater encountered at a depth of 7.9 feet below the existing grade. Boring backfilled with soil cuttings and tamped.			
35	-165								

SAMPLE TYPES:
- R RING SAMPLE
- S SPT SAMPLE
- B BULK SAMPLE
- T TUBE SAMPLE

▼ Groundwater

MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

GENTERRA CONSULTANTS, INC.

FIGURE B-1.8

BORING LOG_CEL 393-PB CVSC IMPROVEMENTS.GPJ TESTING.GDT 3/24/16

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/20/15	GROUND ELEV.	-106.2	BORING NO.	BH9
DATE FINISHED	10/20/15	GW DEPTH (FT)	28.7	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
						Surface covered with loose soils			
	-110	R	15		SM	**FILL - SILTY SAND** loose, dry, grayish brown, fine grained	4.1	98.4	
5		S	4			very loose	5.5		29% passing No. 200 sieve
	-115	R	28			medium dense, light gray	5.7	107.5	
10		S	12		SM	**SILTY SAND** medium dense, dry to moist, light gray	3.6		
	-120	R	61			dense	2.7	109.8	
15		S	22			medium dense	4.5		
	-125	R	25			medium dense, moist, gray	20.0	94.7	
20		S	7		CL	**SANDY LEAN CLAY** medium stiff, moist, gray, ~60% slow dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~40% fine sand	22.7		
	-130	R	43		SM	**SILTY SAND** medium dense, moist, gray, fine grained	23.6	104.3	
25		S	12				29.1		
	-135	R	21		CL	**LEAN CLAY with Sand** stiff, wet, gray, ~80% none to slow dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~20% fine sand	35.7	88.6	
30		S	7			loose	28.3		
	-140	R	41		SM	**SILTY SAND** medium dense, wet, gray, fine grained	10.6	114.6	
35		S	24		SP-SM	**POORLY GRADED SAND with Silt** medium dense, wet, gray, fine to medium grained	20.8		
	-145	R	33			grayish brown	26.0	104.4	

SAMPLE TYPES:
R RING SAMPLE
S SPT SAMPLE
B BULK SAMPLE
T TUBE SAMPLE

▼ Groundwater

MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

GENTERRA CONSULTANTS, INC.

FIGURE B-1.9a

BORING LOG_CEL 393-PB CVSC IMPROVEMENTS.GPJ TESTING.GDT 3/24/16

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/20/15	GROUND ELEV.	-106.2	BORING NO.	BH9
DATE FINISHED	10/20/15	GW DEPTH (FT)	28.7	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
		S	29				24.9		
	-150	R	49		CL	**SILTY CLAY with Sand** very stiff, wet, gray, ~80% none to slow dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~20% fine sand	31.4	93.6	
45		S	14		CL	**LEAN CLAY** stiff, wet, gray, ~90% none to slow dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~10% fine sand	29.6		
	-155	R	60		SM	**SILTY SAND** dense, wet, gray, fine grained	26.9	98.9	
50		S	60			very dense, fine to medium grained	22.5		
	-160					End of Boring at 51½ feet. Groundwater encountered at a depth of 28.7 feet below the existing grade. Boring backfilled with soil cuttings and tamped.			
55									
	-165								
60									
	-170								
65									
	-175								
70									
	-180								
75									
	-185								

SAMPLE TYPES:
R RING SAMPLE
S SPT SAMPLE
B BULK SAMPLE
T TUBE SAMPLE

Groundwater
MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

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FIGURE B-1.9b

BORING LOG_CEL 393-PB CVSC IMPROVEMENTS.GPJ TESTING.GDT 3/24/16

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/20/15	GROUND ELEV.	-96.6	BORING NO.	BH10
DATE FINISHED	10/20/15	GW DEPTH (FT)	37.2	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
						Surface covered with loose soils			
	-100	R	6		SM	**FILL - SILTY SAND** very loose, dry to moist, grayish brown, fine grained	2.7	103.1	
5		S	4				8.6		
	-105	R	11			loose	7.3	98.1	
10		S	4		SM	**SILTY SAND** very loose, moist, grayish brown, fine grained	5.4		
	-110	R	30			medium dense	3.2	105.3	
15		S	13				7.2		
	-115	R	30			fine to medium grained	4.5	105.0	13.8% passing No. 200 sieve
20		S	8		CL	**LEAN CLAY with Sand** medium stiff, moist, gray, ~80% none dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~20% fine sand	20.9		
	-120	R	23		SM	**SILTY SAND** medium dense, moist, dark gray, fine grained	24.4	101.7	
25		S	21				23.7		
	-125	R	33				19.5	108.0	
30		S	13		CL	**LEAN CLAY with Sand** stiff, moist, dark gray, ~75% none dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~25% fine sand	28.8		
	-130	R	36		SM	**SILTY SAND** medium dense, moist, dark gray, fine to medium grained	25.5	102.7	
35		S	40			dense	25.1		
	-135	R	90/11"			very dense, wet	22.6	108.3	21.2% passing No. 200 sieve

SAMPLE TYPES:
R RING SAMPLE
S SPT SAMPLE
B BULK SAMPLE
T TUBE SAMPLE

Groundwater

MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

GENTERRA CONSULTANTS, INC.

FIGURE B-1.10a

BORING LOG_CEL_393-PB CVSC IMPROVEMENTS.GPJ_TESTING.GDT 3/24/16

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/20/15	GROUND ELEV.	-96.6	BORING NO.	BH10
DATE FINISHED	10/20/15	GW DEPTH (FT)	37.2	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
		S	49				25.0		
	-140	R	67			dense	28.2	99.7	
45		S	24			medium dense	32.1		
	-145	R	41			fine grained	34.5	89.1	
50		S	14		CL-ML	**SILTY CLAY** stiff, wet, gray, ~95% none to slow dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~5% fine sand	26.8		
	-150					End of Boring at 51½ feet.			
55						Groundwater encountered at a depth of 37.2 feet below the existing grade.			
	-155					Boring backfilled with soil cuttings and tamped.			
60									
	-160								
65									
	-165								
70									
	-170								
75									
	-175								

SAMPLE TYPES:
- R RING SAMPLE
- S SPT SAMPLE
- B BULK SAMPLE
- T TUBE SAMPLE

Groundwater

MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

GENTERRA CONSULTANTS, INC.

FIGURE B-1.10b

BORING LOG_CEL 393-PB CVSC IMPROVEMENTS.GPJ TESTING.GDT 3/24/16

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/21/15	GROUND ELEV.	-140.5	BORING NO.	BH11
DATE FINISHED	10/21/15	GW DEPTH (FT)	10.4	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
						Surface covered with loose soils			
		R	43		SM	**SILTY SAND** medium dense, moist, dark gray, fine to medium grained	11.7	114.0	46.5% passing No. 200 sieve
5	-145	S	3			very loose, moist to wet	23.4		
		R	26				26.7	104.4	
10	-150	S	6		CL-ML	**SILTY CLAY with Sand** medium stiff, wet, dark gray, ~80% none to slow dilatancy, medium toughness, medium plasticity, low to medium dry strength fines, ~20% fine sand	30.1		
		R	22		SM	**SILTY SAND** medium dense, wet, dark gray, fine to medium grained	24.7	104.1	
15	-155	S	14				24.3		
		R	35		SP-SM	**POORLY GRADED SAND with Silt** medium dense, wet, dark gray, fine to medium grained	19.7	108.1	
20	-160	S	43		SM	**SILTY SAND** dense, wet, dark gray, fine to medium grained	23.1		
		R	65			gray	20.2	111.6	16.3% passing No. 200 sieve
25	-165	S	13		CL	**LEAN CLAY** stiff, wet, gray, ~90% none dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~10% fine sand	33.2		
		R	86		SP-SM	**POORLY GRADED SAND with Silt** very dense, wet, gray, fine to medium grained	23.8	107.7	
30	-170	S	27			medium dense	23.1		
		R	54			dense	27.4	101.4	
35	-175	S	11		CL	**LEAN CLAY** stiff, wet, gray, ~90% none dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~10% fine sand	32.4		
		R	31		SM	**SILTY SAND** medium dense, wet, gray, fine grained	28.1	100.8	
	-180								

SAMPLE TYPES:
- R RING SAMPLE
- S SPT SAMPLE
- B BULK SAMPLE
- T TUBE SAMPLE

Groundwater

MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

GENTERRA CONSULTANTS, INC.

FIGURE B-1.11a

BORING LOG_CEL 393-PB CVSC IMPROVEMENTS.GPJ TESTING.GDT 3/24/16

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/21/15	GROUND ELEV.	-140.5	BORING NO.	BH11
DATE FINISHED	10/21/15	GW DEPTH (FT)	10.4	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
		S	6		CL	**LEAN CLAY** stiff, wet, gray, ~90% none dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~10% fine sand	30.0		
		R	42		SM	**SILTY SAND** medium dense, wet, gray, fine grained	21.7	108.7	
45	-185	S	38			dense, fine to medium grained	20.6		
		R	85/10"		SP	**POORLY GRADED SAND** very dense, wet, light gray, medium grained	17.6	116.2	
50	-190	S	70				19.1		
55	-195					End of Boring at 51½ feet. Groundwater encountered at a depth of 28.7 feet below the existing grade. Boring backfilled with soil cuttings and tamped.			
60	-200								
65	-205								
70	-210								
75	-215								
	-220								

SAMPLE TYPES:
R RING SAMPLE
S SPT SAMPLE
B BULK SAMPLE
T TUBE SAMPLE

Groundwater

MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

GENTERRA CONSULTANTS, INC.

FIGURE B-1.11b

BORING LOG_CEL 393-PB CVSC IMPROVEMENTS.GPJ TESTING.GDT 3/24/16

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/22/15	GROUND ELEV.	-140.7	BORING NO.	BH12
DATE FINISHED	10/22/15	GW DEPTH (FT)	7.8	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
						Surface covered with loose soils			
		R	37		SP-SM	**POORLY GRADED SAND with Silt** medium dense, moist, yellowish gray, fine to medium grained	8.6	114.6	
5	-145	S	16		SM	**SILTY SAND** medium dense, moist to wet, gray, fine to medium grained	22.0		
		R	21			wet, fine grained	25.5	102.6	
10	-150	S	5		CL-ML	**SILTY CLAY** medium stiff, wet, gray, ~90% none dilatancy, medium toughness, medium plasticity, low to medium dry strength fines, ~10% fine sand	31.3		
		R	37		SM	**SILTY SAND** medium dense, wet, dark gray, fine to medium grained	23.9	104.7	
15	-155	S	33			dense	22.8		12.7% passing No. 200 sieve
		R	51				25.9	101.4	
20	-160	S	27			medium dense	22.5		
		R	14			loose, wet, gray	22.3	104.2	
25	-165	S	26			medium dense	30.0		
		R	72			dense	22.6	109.2	
30	-170	S	15		CL	**LEAN CLAY** stiff, wet, gray, ~90% none dilatancy, medium toughness, medium plasticity, medium to high dry strength fines, ~10% fine sand	32.7		
		R	56		SM	**SILTY SAND** dense, wet, gray, fine to medium grained dark gray	28.1	101.2	
35	-175	S	9		CL	**LEAN CLAY** stiff, wet, gray, ~90% none to slow dilatancy, medium toughness, medium plasticity, medium dry strength fines, ~10% fine sand	36.6		
		R	17				28.1	100.6	
	-180								

SAMPLE TYPES:
R RING SAMPLE
S SPT SAMPLE
B BULK SAMPLE
T TUBE SAMPLE

▼ Groundwater
MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

GENTERRA CONSULTANTS, INC.

FIGURE B-1.12a

BORING LOG_CEL 393-PB CVSC IMPROVEMENTS.GPJ TESTING.GDT 3/24/16

BORING LOG

PROJECT NO.	393-PB-CVSC	PROJECT NAME	CVSC Improvement Project		
DATE STARTED	10/22/15	GROUND ELEV.	-140.7	BORING NO.	BH12
DATE FINISHED	10/22/15	GW DEPTH (FT)	7.8	LOGGED BY	JWK
DRILLER	2R Drilling Inc.	DRIVE WT.	140 lbs	COORDINATES	
TYPE OF DRILL RIG	HSA	DROP	30 in		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	LITHOLOGY	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
		S	20			very stiff	27.3		
		R	39				30.7	97.3	
45	-185	S	53		SP-SM	**POORLY GRADED SAND with Silt** very dense, wet, gray, fine to medium grained	20.8		5.2% passing No. 200 sieve
		R	50/5"			light gray, medium grained	21.5	112.0	
50	-190	S	95/11"			fine to medium grained	17.8		
55	-195					End of Boring at 51½ feet. Groundwater encountered at a depth of 7.8 feet below the existing grade. Boring backfilled with soil cuttings and tamped.			
60	-200								
65	-205								
70	-210								
75	-215								
	-220								

SAMPLE TYPES:
R RING SAMPLE
S SPT SAMPLE
B BULK SAMPLE
T TUBE SAMPLE

Groundwater
MAX - Max. Density
CU - Con. Undrained Triaxial
UU - Uncol. Undrained Triaxial
PERM - Permeability
DS - Direct Shear
SA - Sieve Analysis
ATT - Atterberg Limits
CON - Consolidation

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FIGURE B-1.12b

BORING LOG_CEL 393-PB CVSC IMPROVEMENTS.GPJ TESTING.GDT 3/24/16

MAJOR DIVISIONS			GROUP SYMBOLS		TYPICAL NAMES
COARSE GRAINED SOILS (More than 50% of material is LARGER than No. 200 sieve size)	GRAVELS (More than 50% of coarse fraction is LARGER than the No. 4 sieve size)	CLEAN GRAVELS (Little or no fines)		GW	Well graded gravels, gravel-sand mixtures, little or no fines.
				GP	Poorly graded gravels or gravel-sand mixture, little or no fines.
		GRAVEL with FINES (Appreciable amount of fines)		GM	Silty gravels, gravel-sand-silt mixtures.
				GC	Clayey gravels, gravel-sand-clay mixtures.
	SANDS (More than 50% of coarse fraction is SMALLER than the No. 4 sieve size)	CLEAN SANDS (Little or no fines)		SW	Well graded sands, gravelly sands, little or no fines
				SP	Poorly graded sands or gravelly sands, little or no fines.
		SANDS with FINES (Appreciable amount of fines)		SM	Silty sands, sand-silt mixtures.
				SC	Clayey sands, sand-clay mixtures.
FINE GRAINED SOILS (More than 50% of material is SMALLER than No. 200 sieve size)	SILTS AND CLAYS (Liquid Limit LESS than 50)			ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.
				CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
				OL	Organic silts and organic silty clays of low plasticity.
	SILTS AND CLAYS (Liquid Limit GREATER than 50)			MH	Inorgnatic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
				CH	Inorganic clays of high plasticity, fat clays.
				OH	Organic clays of medium to high plasticity, organic silts.
HIGHLY ORGANIC SOILS				PT	Peat and other highly organic soils.

BOUNDARY CLASSIFICATIONS: Soils possessing characteristics of two groups are designated by combinations of group symbols

SILT OR CLAY	SAND			GRAVEL		Cobbles	Boulders
	Fine	Medium	Coarse	Fine	Coarse		

No.200 No.40 No.10 No.4 3/4" 3" 12"

U.S. STANDARD SIEVE SIZE

Reference: The Unified Soil Classification System, Corps of Engineers. U.S. Army Technical Memorandum No. 3-357, Vol. 1, March, 1953 (Revised April, 1960)

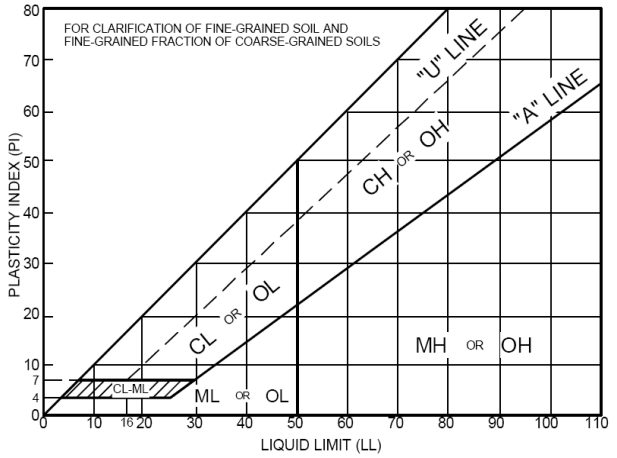
SAMPLE TYPES AND BOREHOLE TESTS

Undisurbed Sample		Auger Cuttings	
Split Spoon Sample		Bulk Sample	
Rock Core		Sampler	
Dilatometer		Pressure Meter	
Packer		No Recovery	
Water Level at Time of Drilling		Stabilized Water Level	

Correlation of Standard Penetration Test (SPT) Resistance with Relative Density and Consistency

SAND & GRAVEL		SILT & CLAY	
No. of Blows	Relative Density	No. of Blows	Consistency
0 - 4	Very Loose	0 - 1	Very Soft
5 - 10	Loose	2 - 4	Soft
11 - 30	Medium Dense	5 - 8	Medium Stiff
31 - 50	Dense	9 - 15	Stiff
Over 50	Very Dense	16 - 30	Very Stiff
		Over 31	Hard

Plasticity Chart

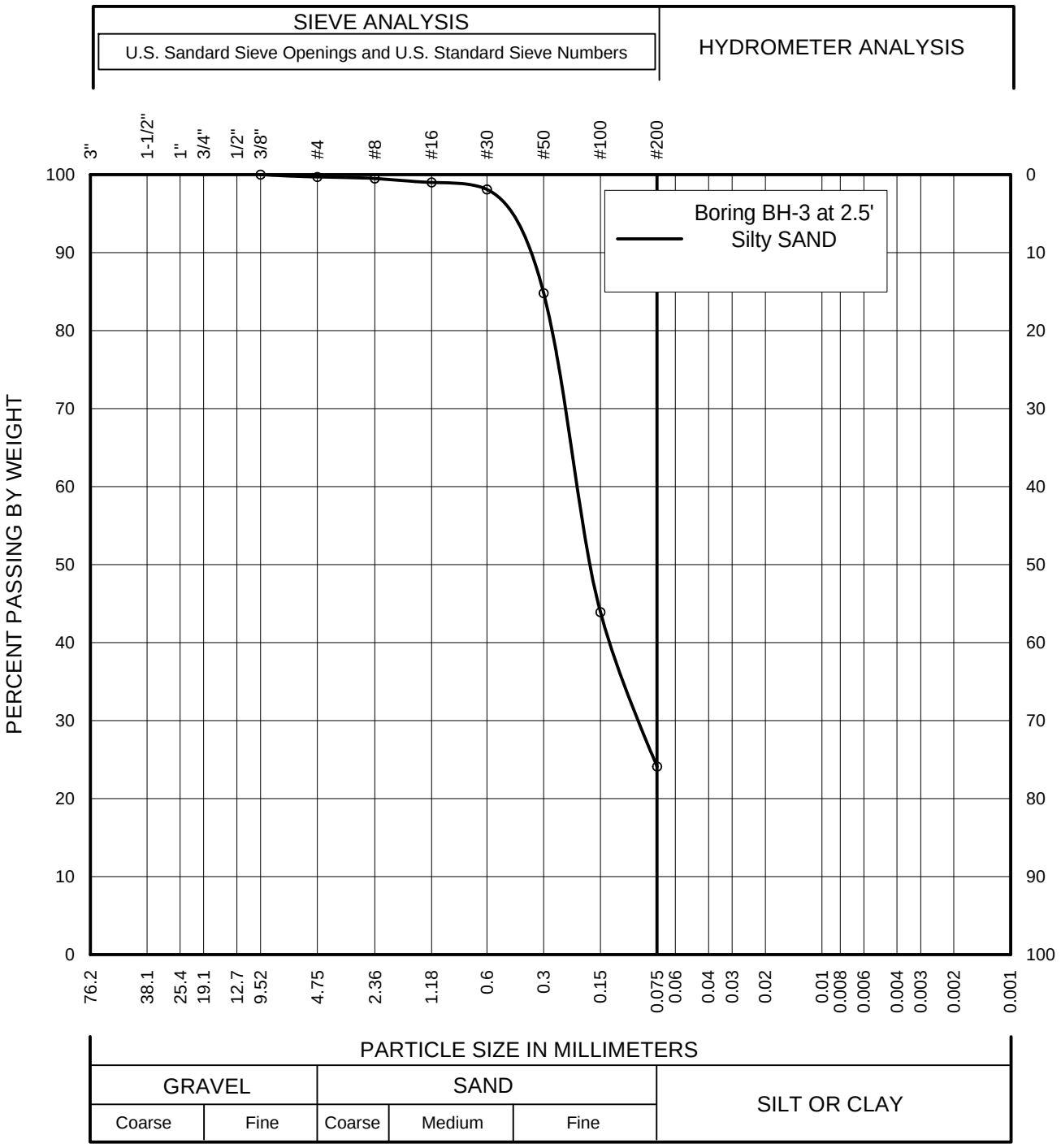


KEY TO SYMBOLS AND DESCRIPTIONS

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FIGURE B-2

JOB 393-PB-CVSC Improvements DATE December 4, 2015 L.T. JWK DR. SB/SL O.E. SB CHKD

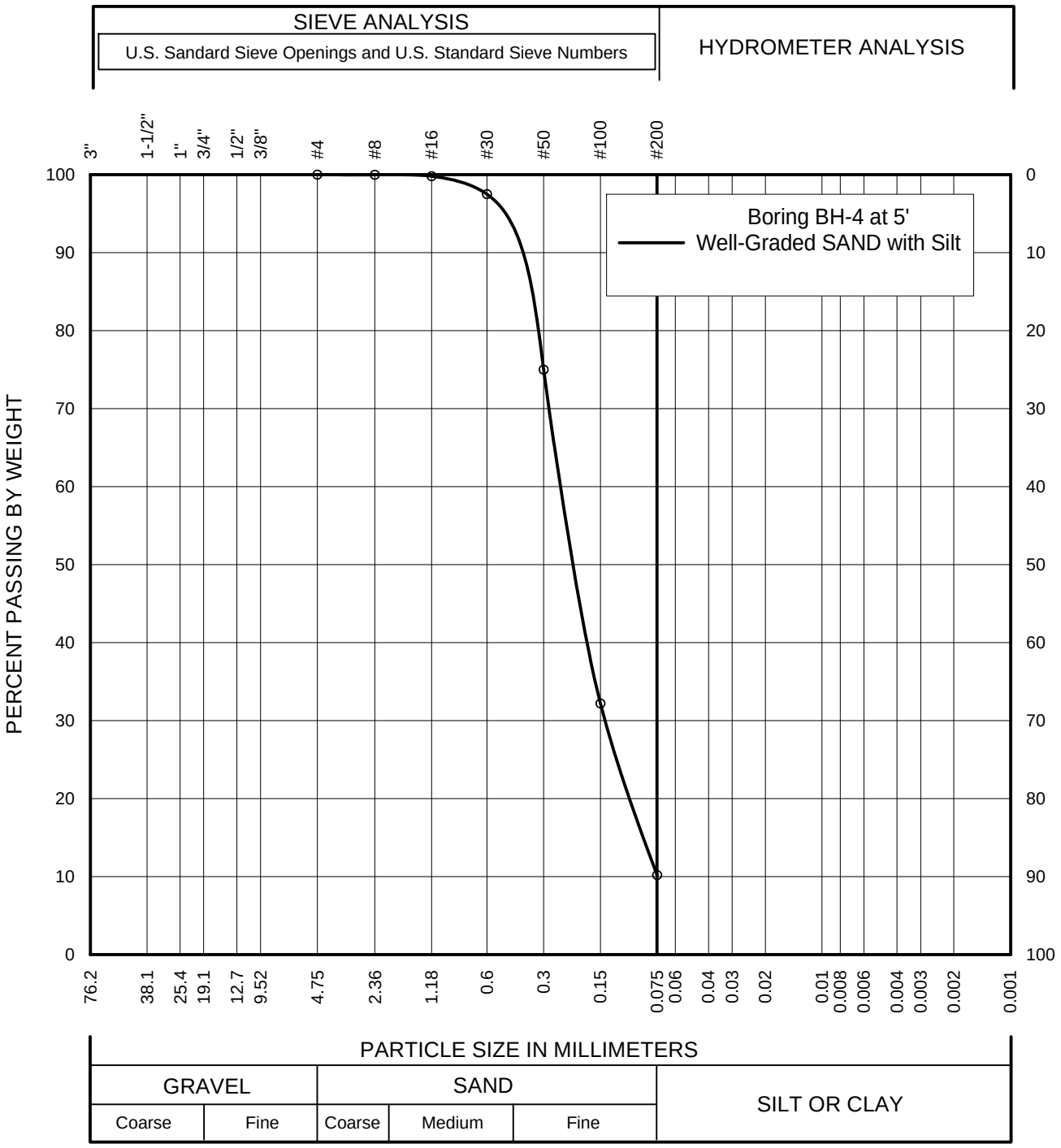


GRAIN SIZE DISTRIBUTION

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FIGURE B-3.1

JOB 393-PB-CVSC Improvements DATE December 4, 2015 L.T. JWK DR. SB/SL O.E. SB CHKD

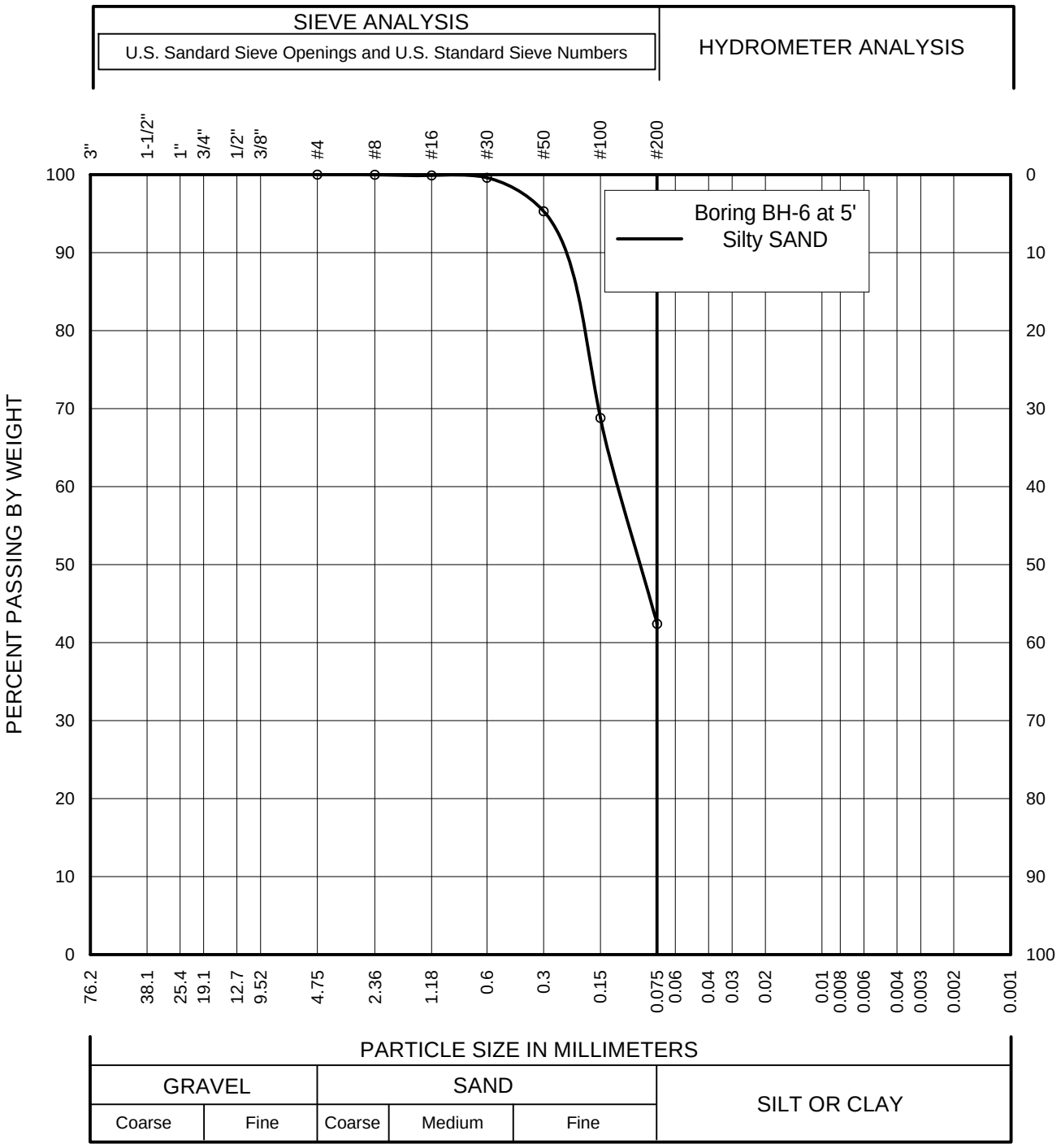


GRAIN SIZE DISTRIBUTION

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FIGURE B-3.2

JOB 393-PB-CVSC Improvements DATE December 4, 2015 L.T. JWK DR. SB/SL O.E. SB CHKD

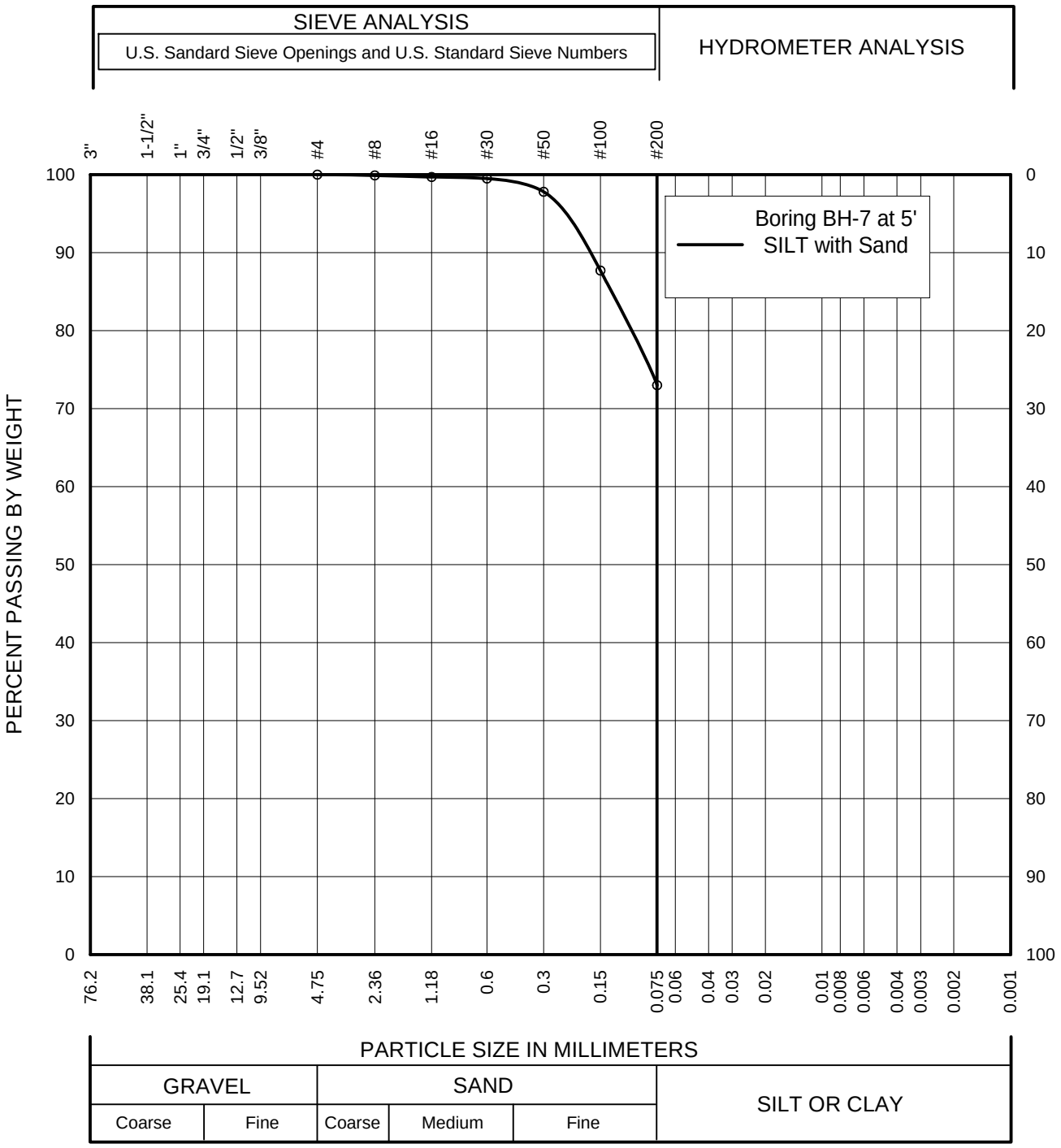


GRAIN SIZE DISTRIBUTION

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FIGURE B-3.3

JOB 393-PB-CVSC Improvements DATE December 4, 2015 L.T. JWK DR. SB/SL O.E. SB CHKD

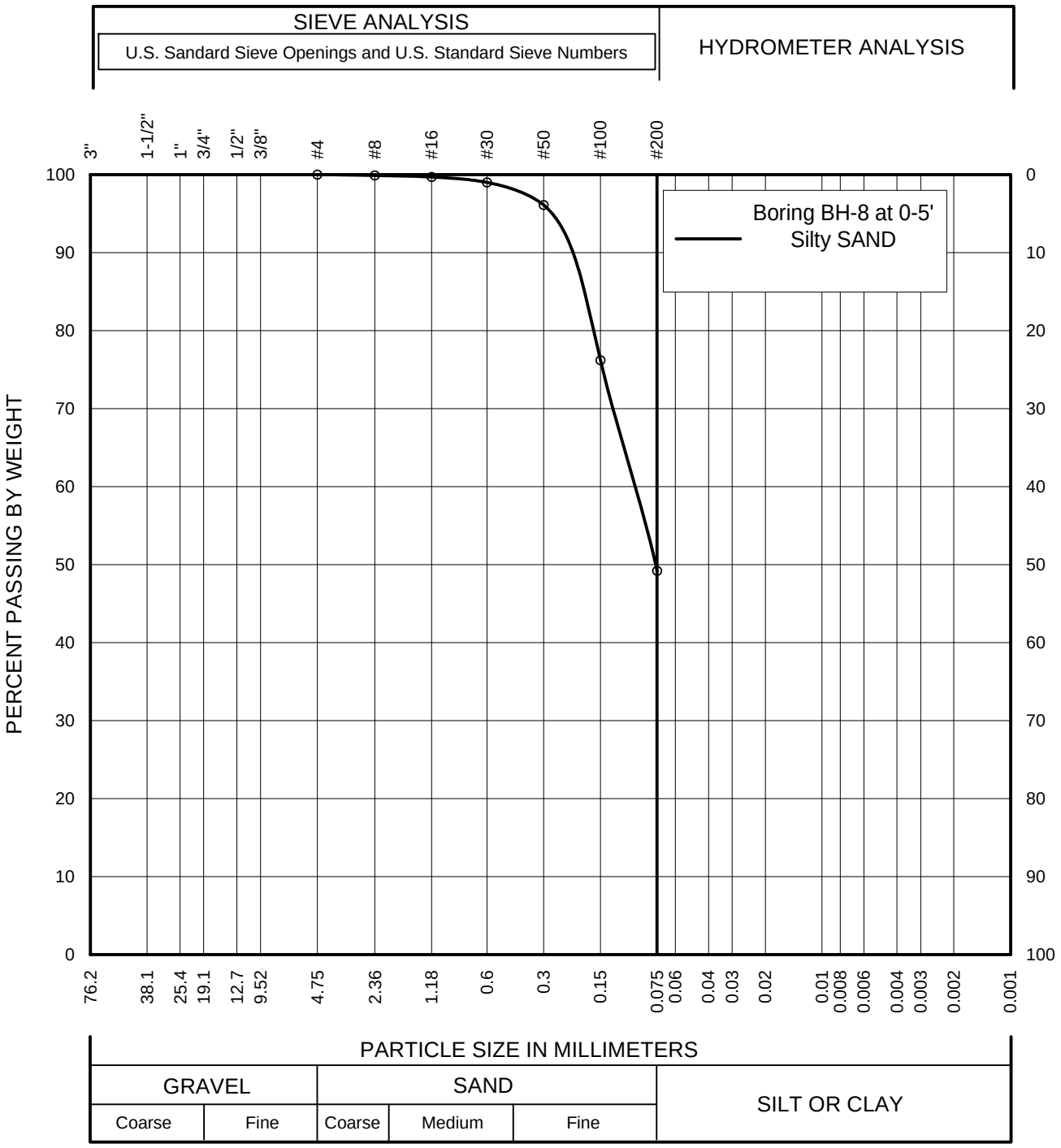


GRAIN SIZE DISTRIBUTION

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FIGURE B-3.4

JOB 393-PB-CVSC Improvements DATE December 4, 2015 L.T. JWK DR. SB/SL O.E. SB CHKD

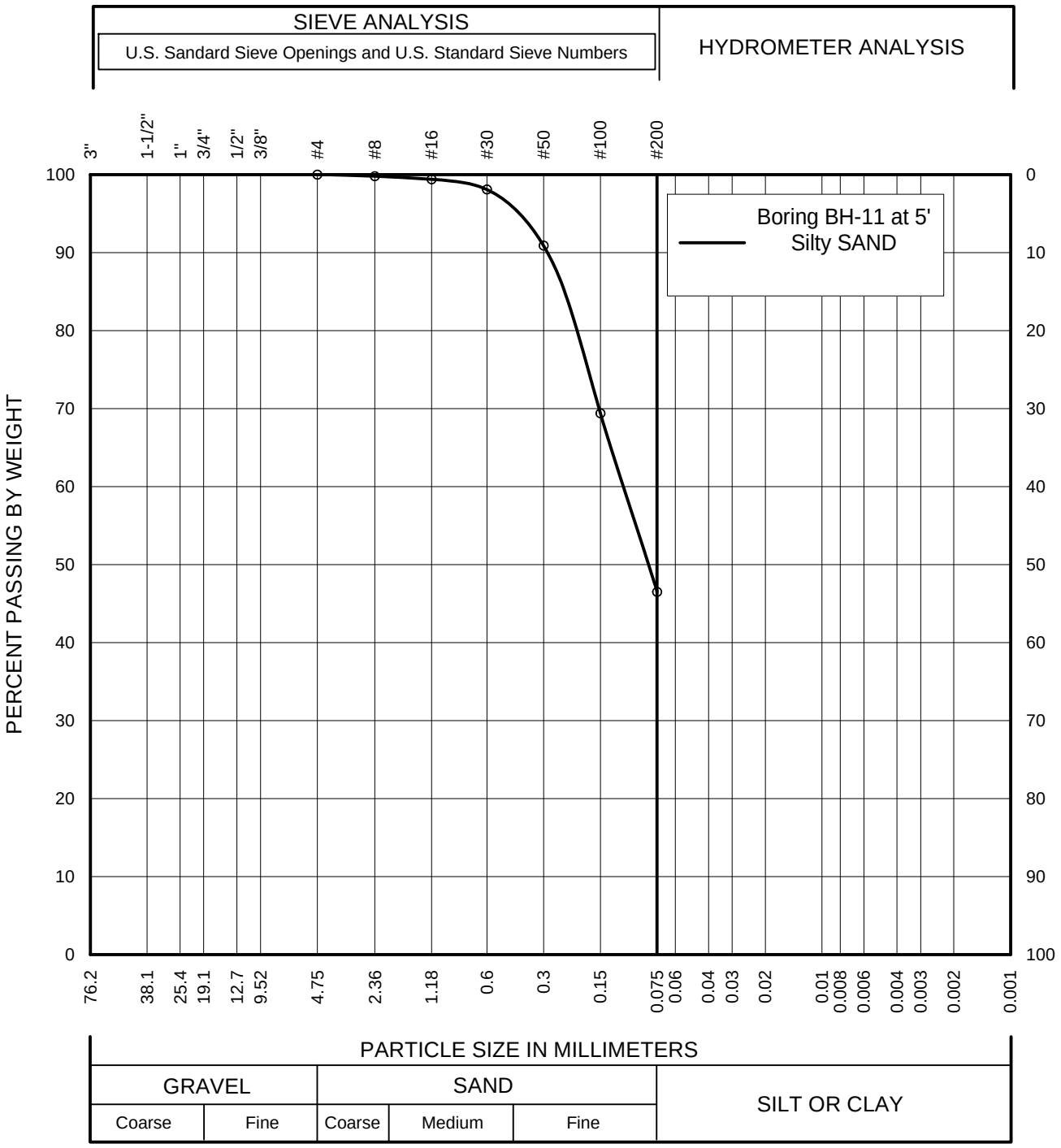


GRAIN SIZE DISTRIBUTION

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FIGURE B-3.5

JOB 393-PB-CVSC Improvements DATE December 4, 2015 L.T. JWK DR. SB/SL O.E. SB CHKD

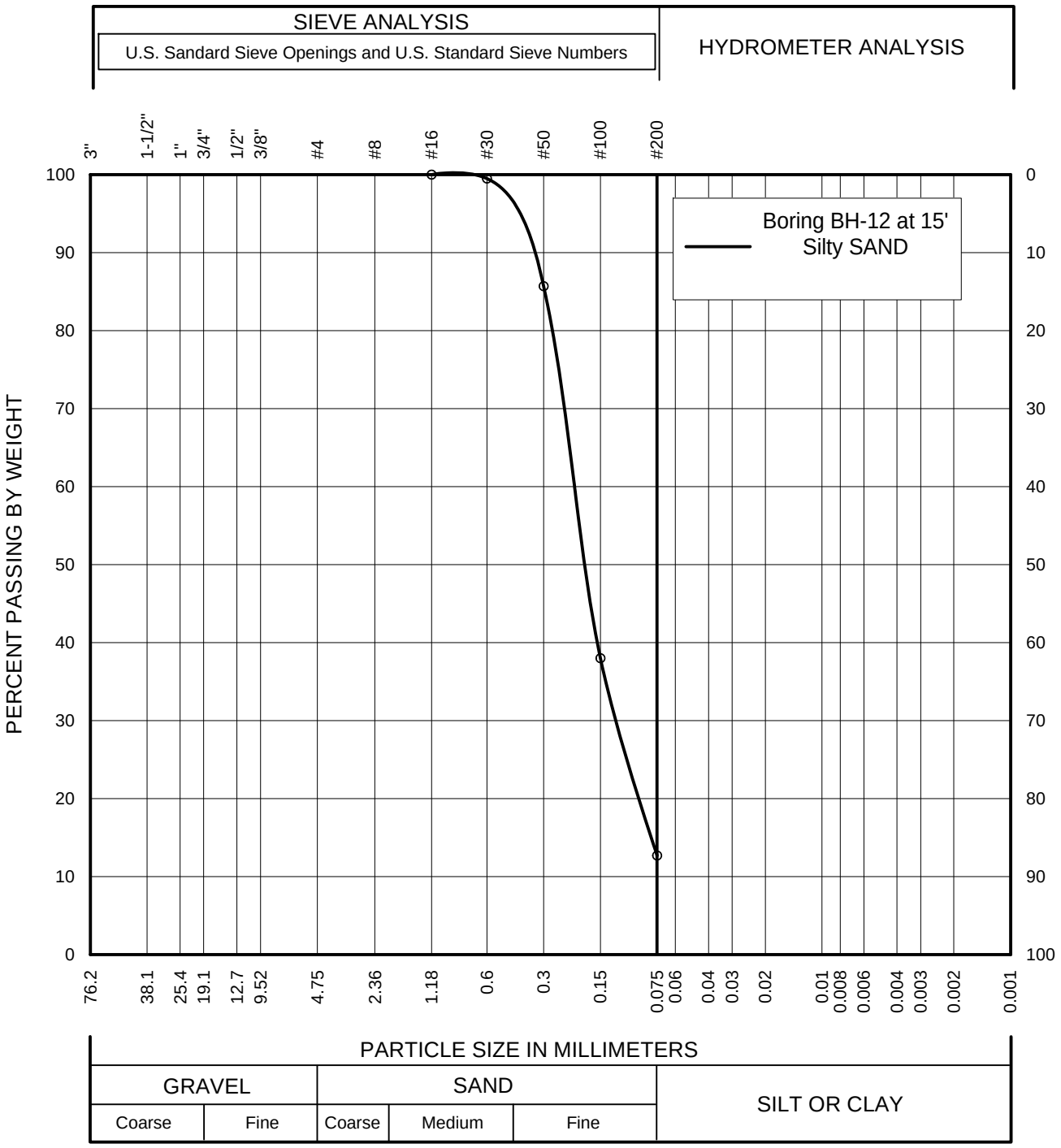


GRAIN SIZE DISTRIBUTION

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FIGURE B-3.6

JOB 393-PB-CVSC Improvements DATE December 4, 2015 L.T. JWK DR. SB/SL O.E. SB CHKD

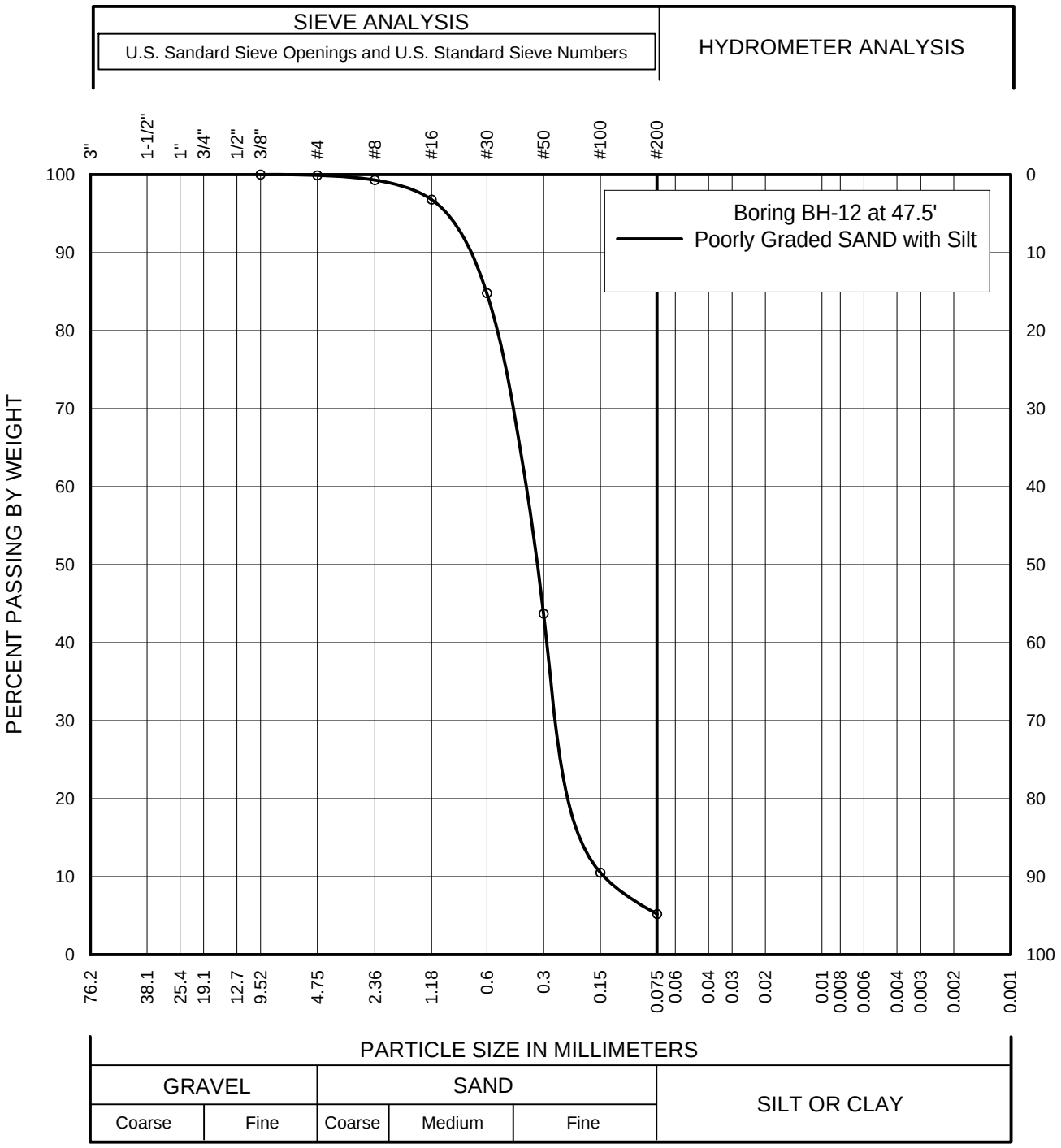


GRAIN SIZE DISTRIBUTION

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FIGURE B-3.7

JOB 393-PB-CVSC Improvements DATE December 4, 2015 L.T. JWK DR. SB/SL O.E. SB CHKD

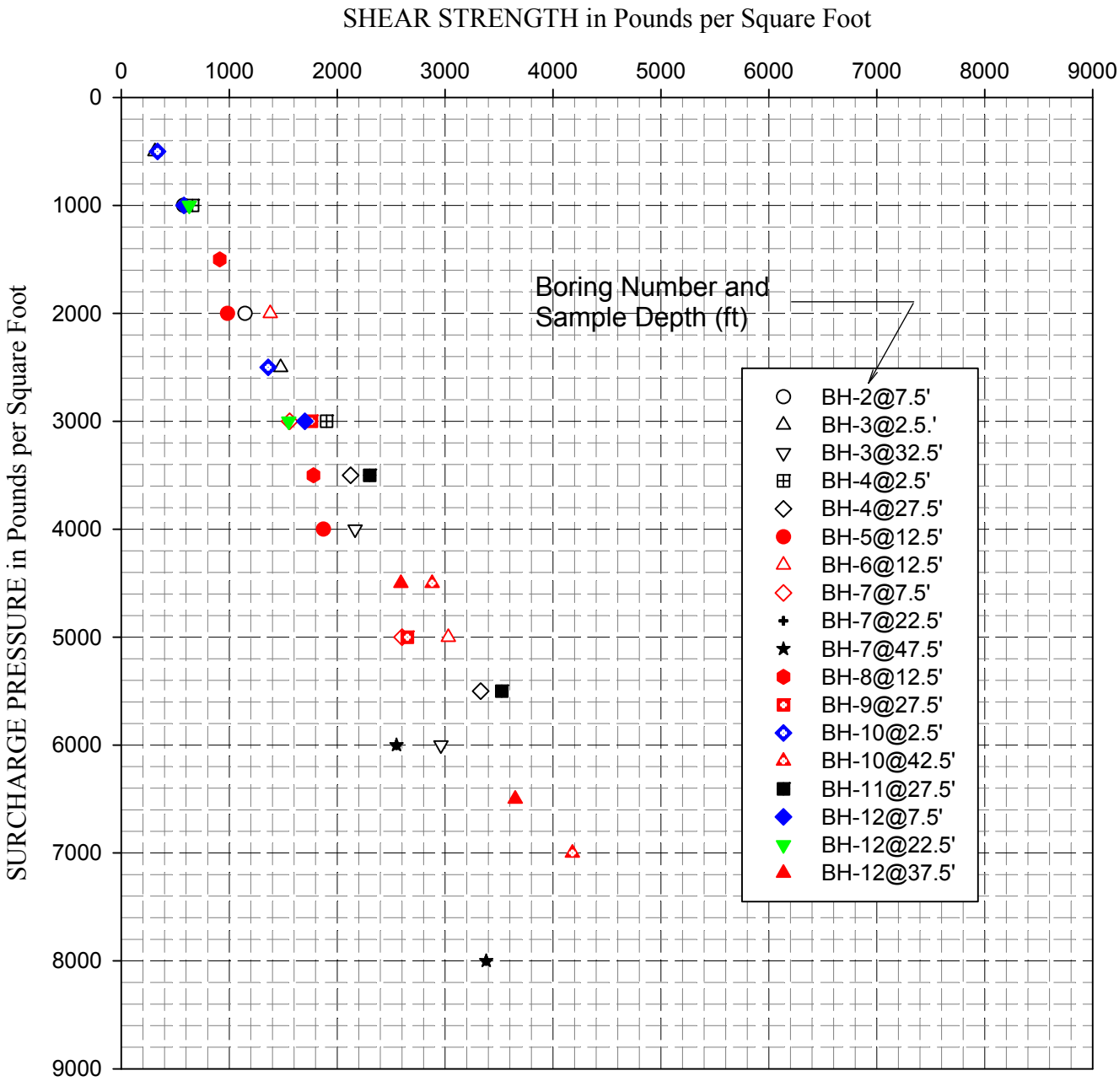


GRAIN SIZE DISTRIBUTION

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FIGURE B-3.8

JOB 393-PB-CVSC Improvements DATE December 23, 2015 L.T. JWK DR. SB/SL O.E. SB CHKD



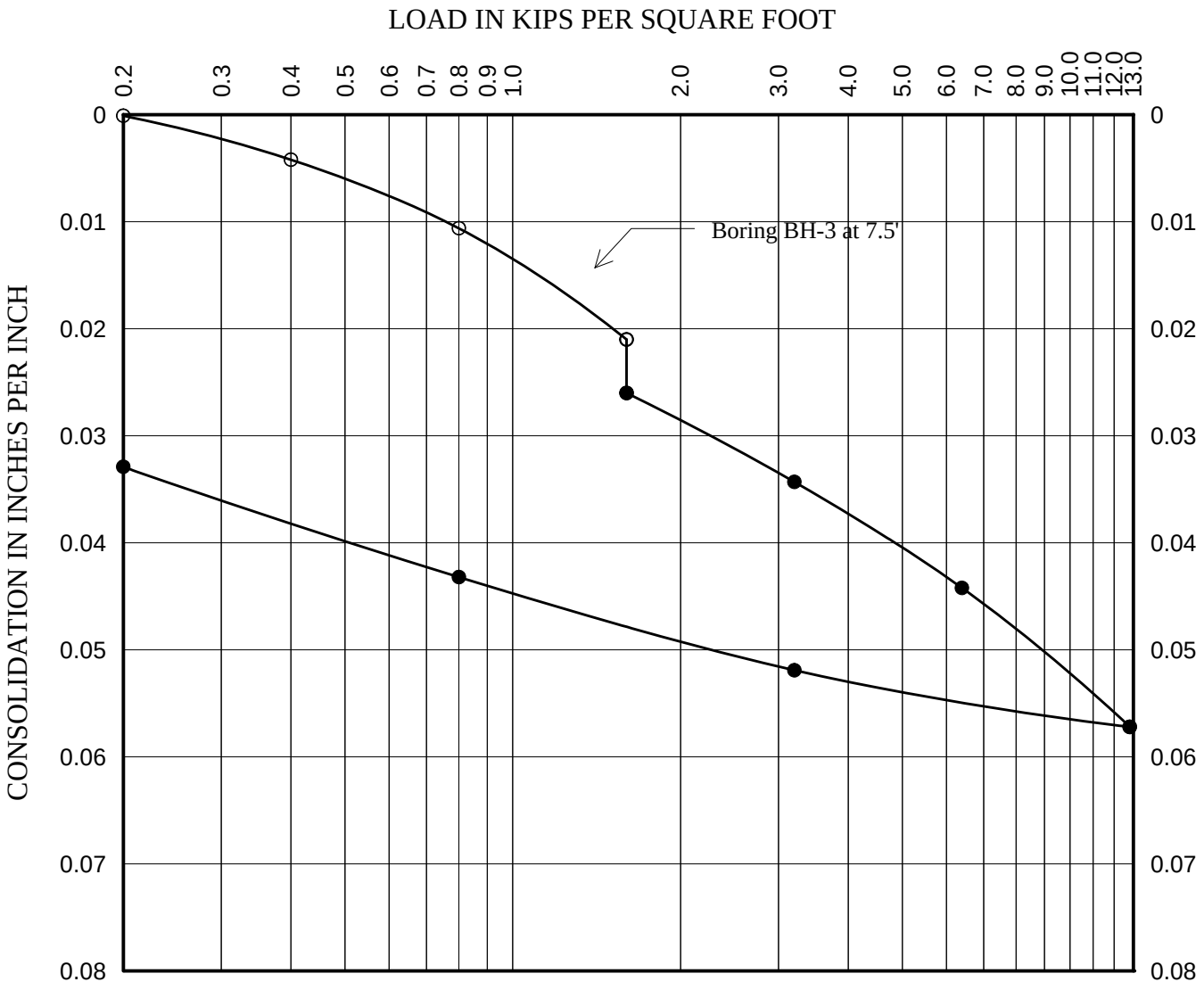
Note: Samples tested after soaking to a moisture content near saturation

DIRECT SHEAR TEST DATA

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FIGURE B-4

JOB 393-PB CVSC Improvements DATE November 18, 2015 L.T. JWK DR. SB/SL O.E. SB CHKD



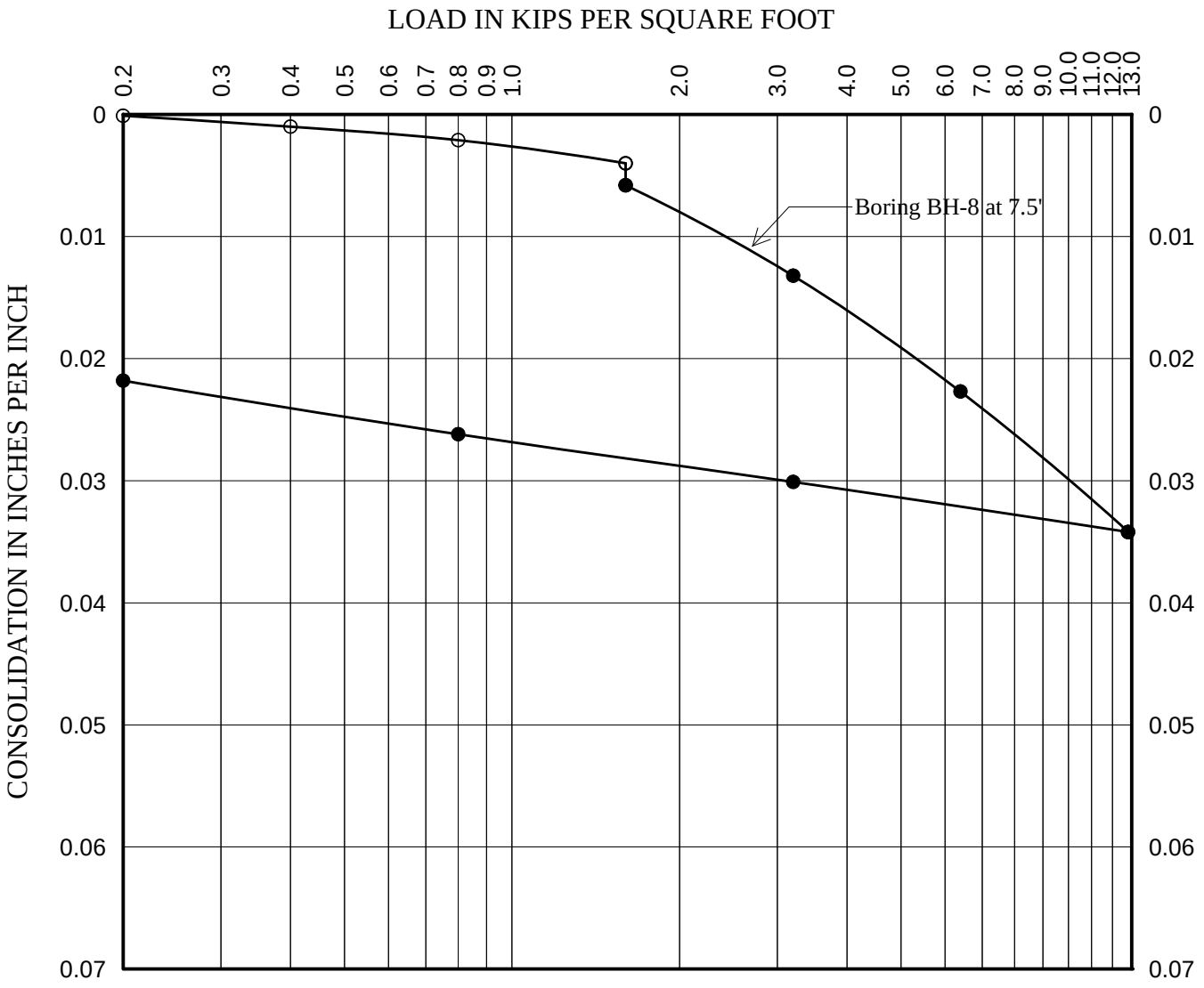
NOTE: Water added to samples after consoilidation under a load of 1.6 kips per square foot

CONSOLIDATION TEST DATA

GENTERRA CONSULTANTS, INC.
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FIGURE B-5.1

JOB 384-CVW East Side Dike DATE November 18, 2015 L.T. JWK DR. SB/SL O.E. SB CHKD



NOTE: Water added to samples after consoilidation under a load of 1.6 kips per square foot

CONSOLIDATION TEST DATA

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FIGURE B-5.2

JOB 384-CVW East Side Dike DATE March 15, 2015 L.T. JWK DR. SB/SL O.E. JJK CHKD

BORING NUMBER AND SAMPLE DEPTH:	BH-3 at 0' to 5'
SOIL TYPE:	SILTY SAND
MAXIMUM DRY DENSITY: (lbs./cu.ft.)	111.0
OPTIMUM MOISTURE CONTENT: (%)	10.5

TEST METHOD: ASTM Designation D1557

COMPACTION TEST RESULTS

GENTERRA CONSULTANTS, INC.
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FIGURE C-6.1

JOB 384-CVW East Side Dike DATE January 15, 2016 L.T. JWK DR. SB/SL O.E. JJK CHKD

BORING NUMBER AND SAMPLE DEPTH:	BH-5 at 0' to 5'
SOIL TYPE:	POORLY GRADED SAND with Silt
MAXIMUM DRY DENSITY: (lbs./cu.ft.)	122.0
OPTIMUM MOISTURE CONTENT: (%)	10.0

TEST METHOD: ASTM Designation D1557

COMPACTION TEST RESULTS

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FIGURE B-6.2

JOB 384-CVW East Side Dike DATE January 15, 2016 L.T. JWK DR. SB/SL O.E. JJK CHKD

BORING NUMBER AND SAMPLE DEPTH:	BH-8 at 0' to 5'
SOIL TYPE:	SILTY SAND
MAXIMUM DRY DENSITY: (lbs./cu.ft.)	118.0
OPTIMUM MOISTURE CONTENT: (%)	11.0

TEST METHOD: ASTM Designation D1557

COMPACTION TEST RESULTS

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FIGURE B-6.3

JOB 384-CVW East Side Dike DATE January 15, 2016 L.T. JWK DR. SB/SL O.E. JJK CHKD

BORING NUMBER AND SAMPLE DEPTH:	BH-12 at 0' to 5'
SOIL TYPE:	POORLY GRADED SAND with Silt
MAXIMUM DRY DENSITY: (lbs./cu.ft.)	119.0
OPTIMUM MOISTURE CONTENT: (%)	11.5

TEST METHOD: ASTM Designation D1557

COMPACTION TEST RESULTS

GENTERRA CONSULTANTS, INC.
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FIGURE B-6.4

Table 1 - Laboratory Tests on Soil Samples

GENTERRA Consultants, Inc.
Coachella Valley Improvement Channel Improvement
Your #393-PB, HDR Lab #15-0902LAB
16-Nov-15

Sample ID			BH-8 @ 5-7.5' Lean Clay with Sand	BH-10 @ 0-5' Silty Sand
Resistivity		**Units**		
as-received		ohm-cm	2,240	8,800
saturated		ohm-cm	2,120	148
pH			7.2	7.3
Electrical Conductivity		mS/cm	0.18	3.41
Chemical Analyses				
Cations				
calcium	Ca^{2+}	mg/kg	69	570
magnesium	Mg^{2+}	mg/kg	1.9	9.4
sodium	Na^{1+}	mg/kg	159	3,330
potassium	K^{1+}	mg/kg	16	40
Anions				
carbonate	CO_3^{2-}	mg/kg	12	ND
bicarbonate	HCO_3^{1-}	mg/kg	244	95
fluoride	F^{1-}	mg/kg	27	20
chloride	Cl^{1-}	mg/kg	53	2,730
sulfate	SO_4^{2-}	mg/kg	121	4,840
phosphate	PO_4^{3-}	mg/kg	ND	ND
Other Tests				
ammonium	NH_4^{1+}	mg/kg	0.8	ND
nitrate	NO_3^{1-}	mg/kg	4.5	436
sulfide	S^{2-}	qual	na	na
Redox		mV	na	na

Electrical conductivity in millisiemens/cm and chemical analysis were made on a 1:5 soil-to-water extract.
mg/kg = milligrams per kilogram (parts per million) of dry soil.
Redox = oxidation-reduction potential in millivolts
ND = not detected
na = not analyzed

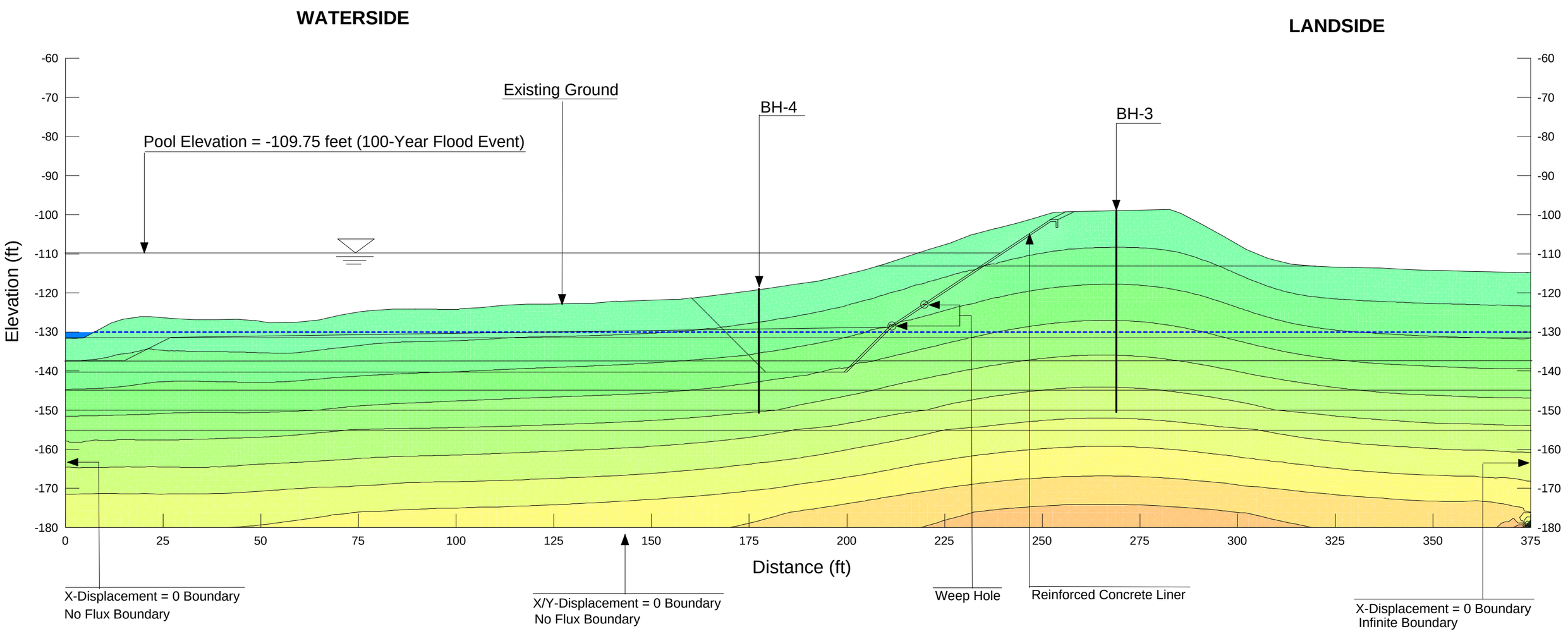
APPENDIX C

SUMMARY OF RESULTS FOR CONSTRUCTION SIMULATION

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

VERTICAL STRESS DISTRIBUTION - INSITU CONDITION

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER



SCALE: 1" = 25'

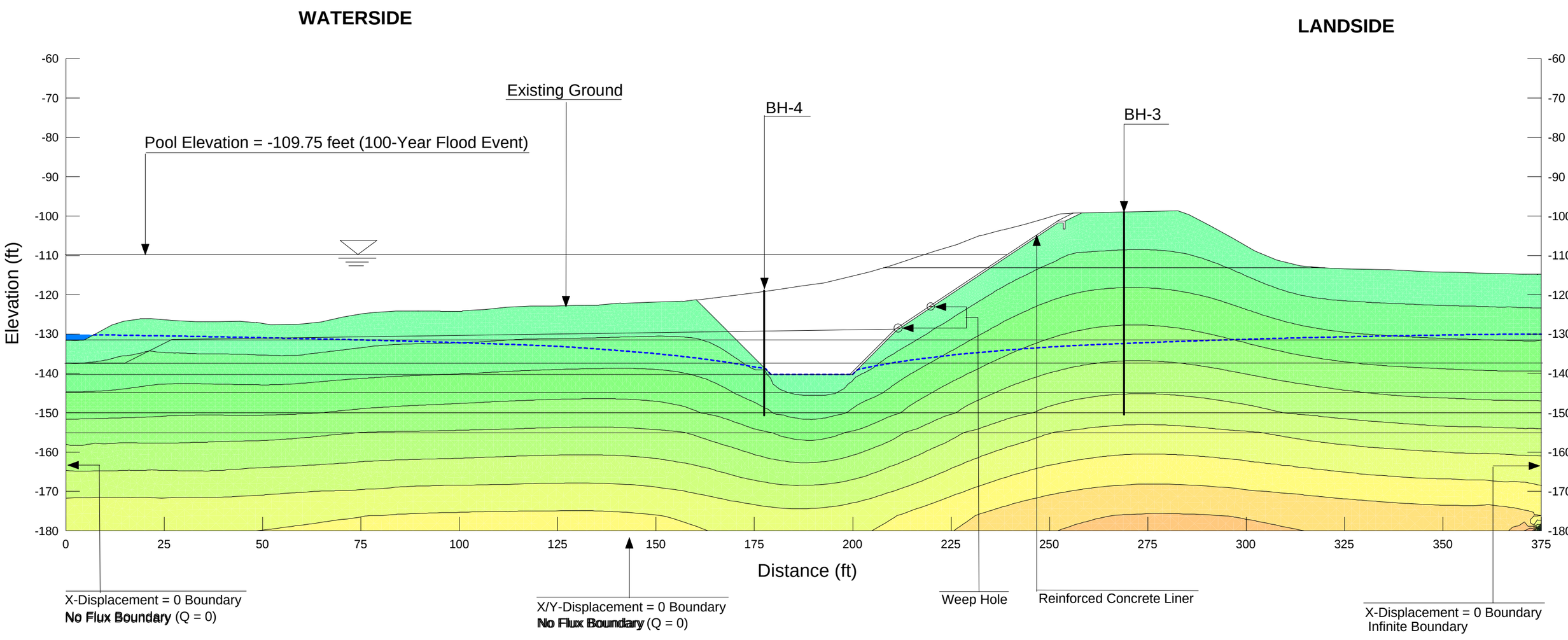
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-1.1

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

VERTICAL STRESS DISTRIBUTION - EXCAVATION CONDITION

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER



SCALE: 1" = 25'

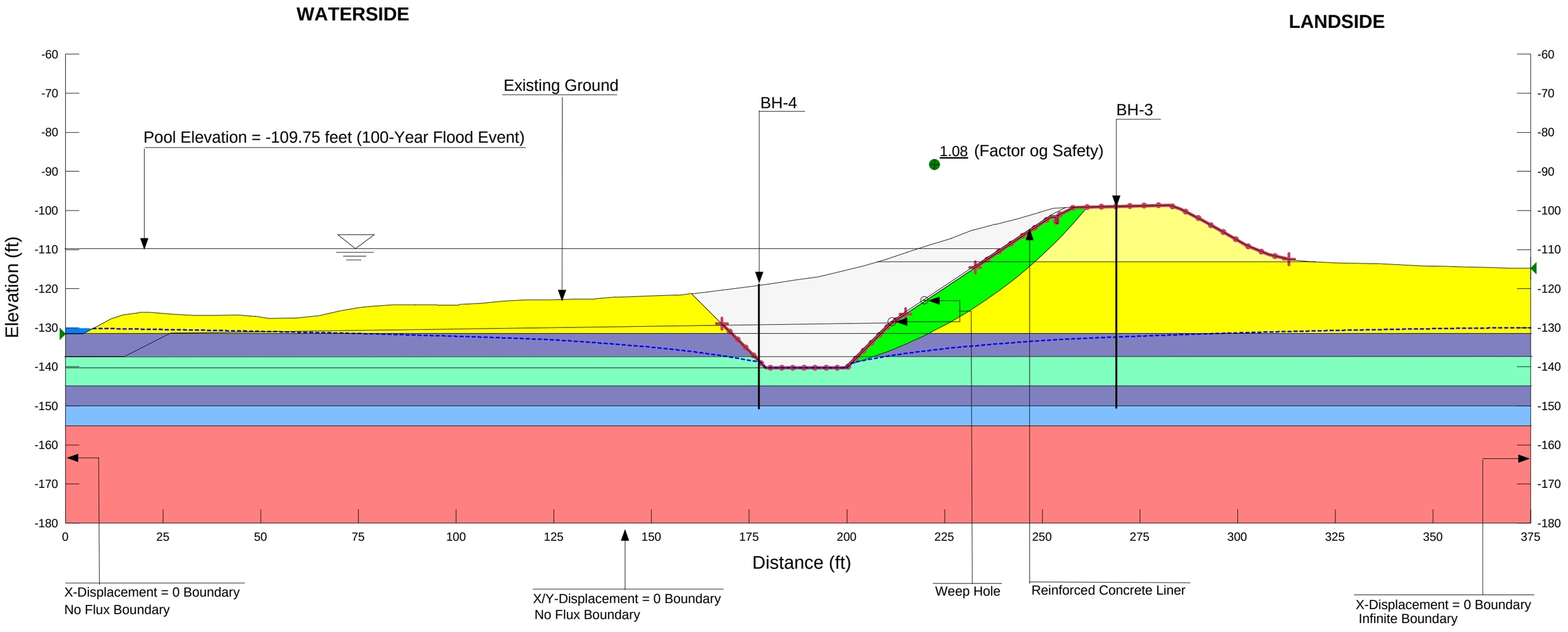
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PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-1.2

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF SLOPE STABILITY ANALYSIS - EXCAVATION CONDITION

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER



SCALE: 1" = 25'

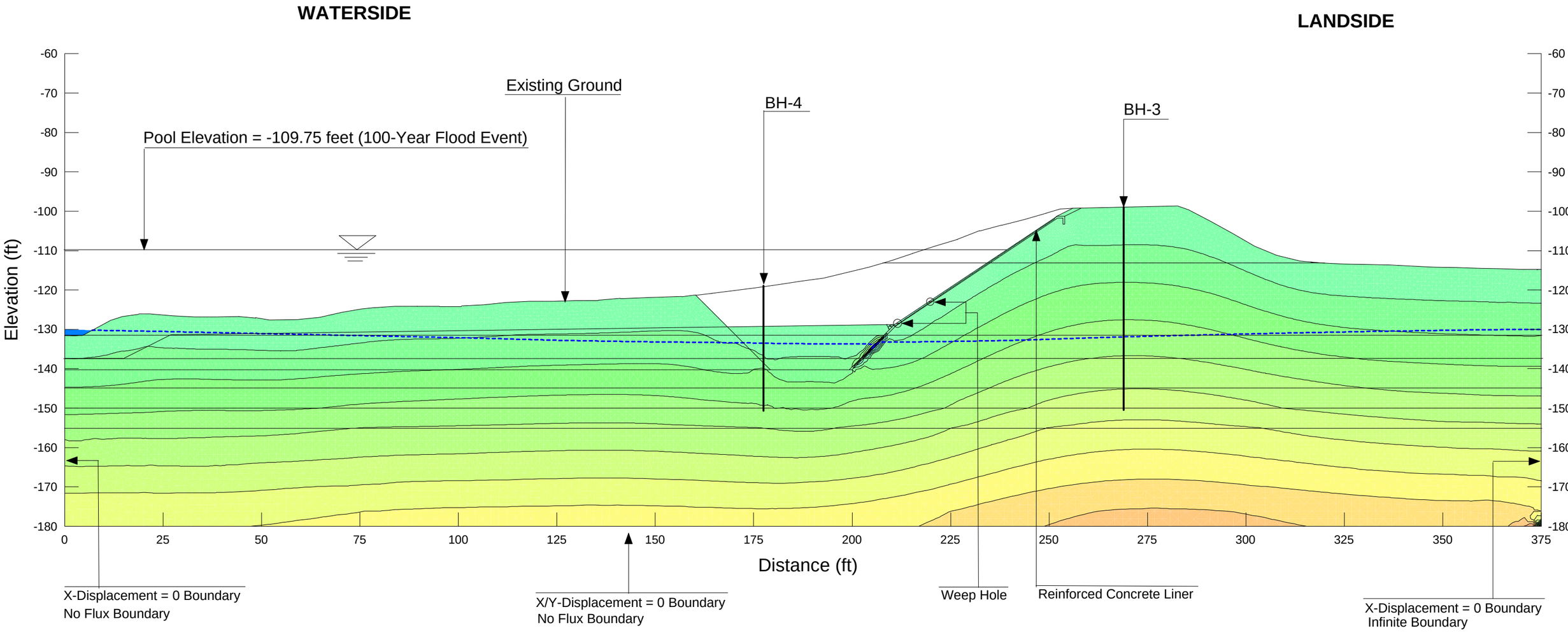
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PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-1.3

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

VERTICAL STRESS DISTRIBUTION - SIDE LINER PLACEMENT AND BACKFILL

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER



SCALE: 1" = 25'

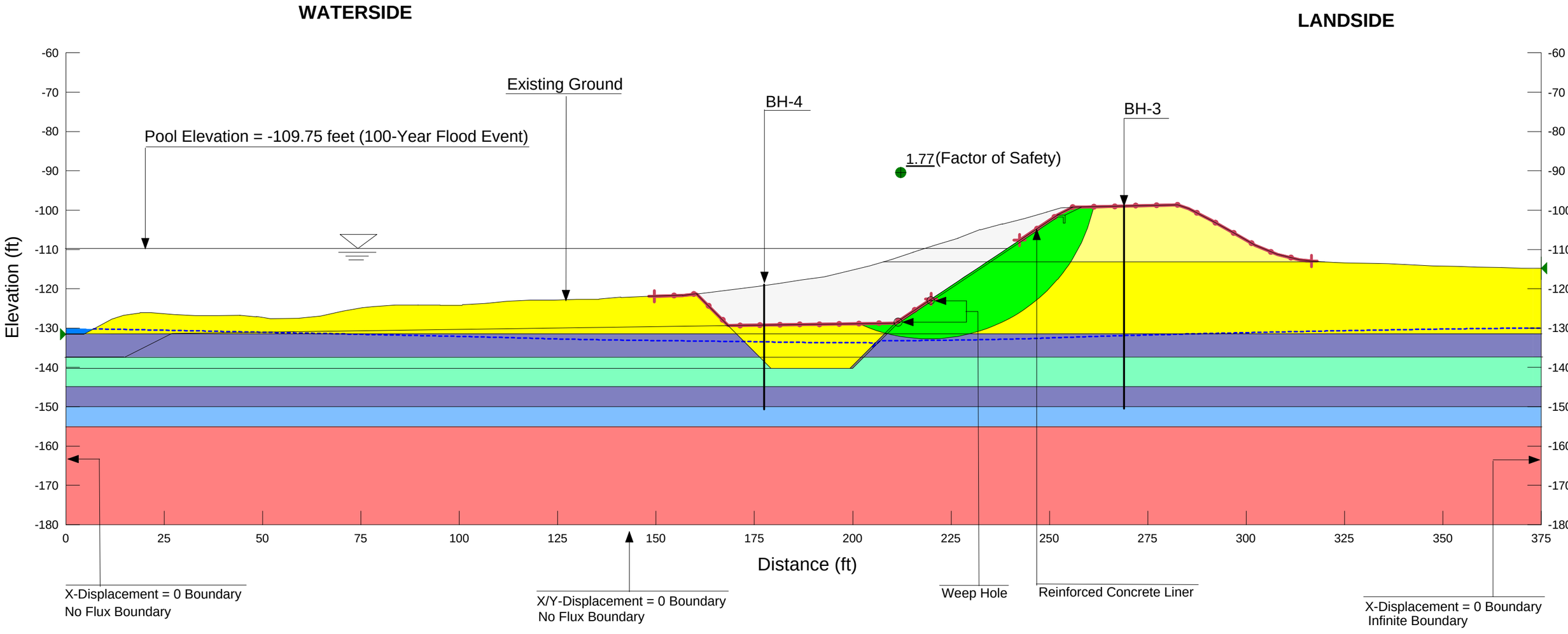
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PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-1.4

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF SLOPE STABILITY ANALYSIS - SIDE LINER PLACEMENT AND BACKFILL

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER



SCALE: 1" = 25'

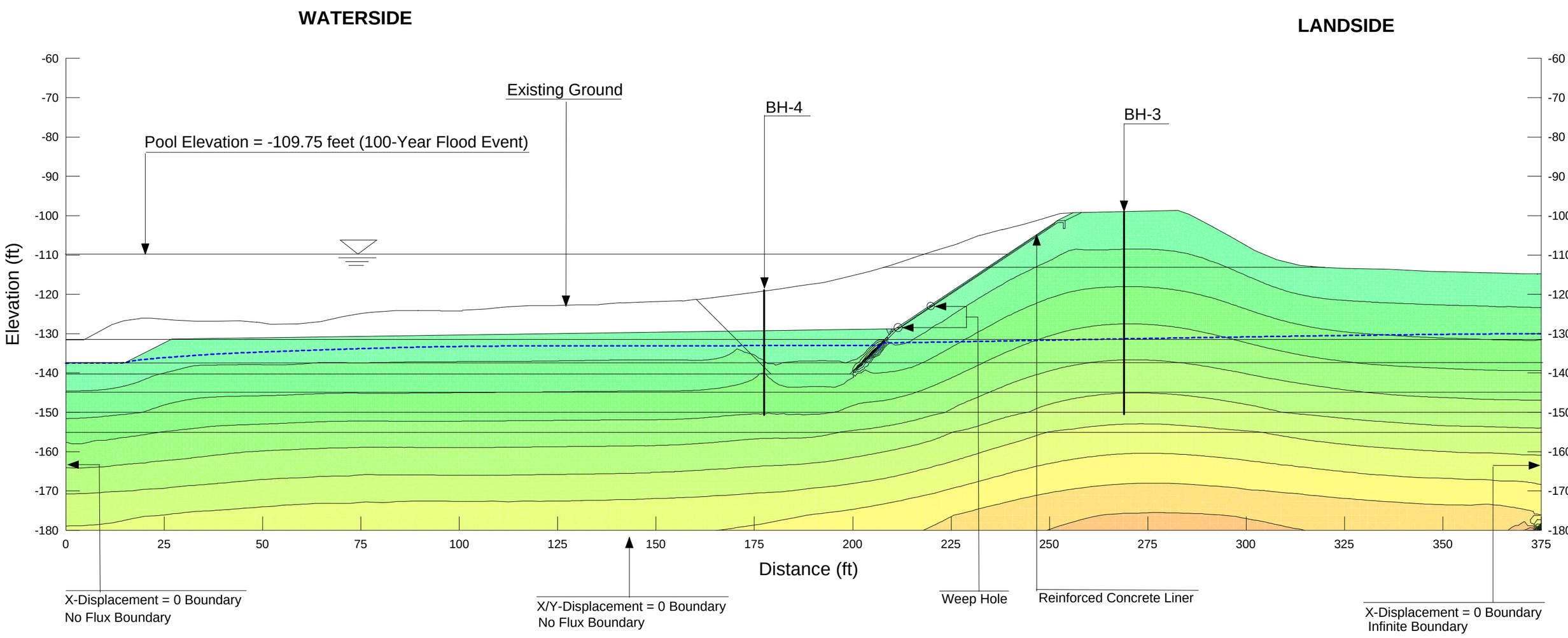
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PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-1.5

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

VERTICAL STRESS DISTRIBUTION - END OF CONSTRUCTION

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER



SCALE: 1" = 25'

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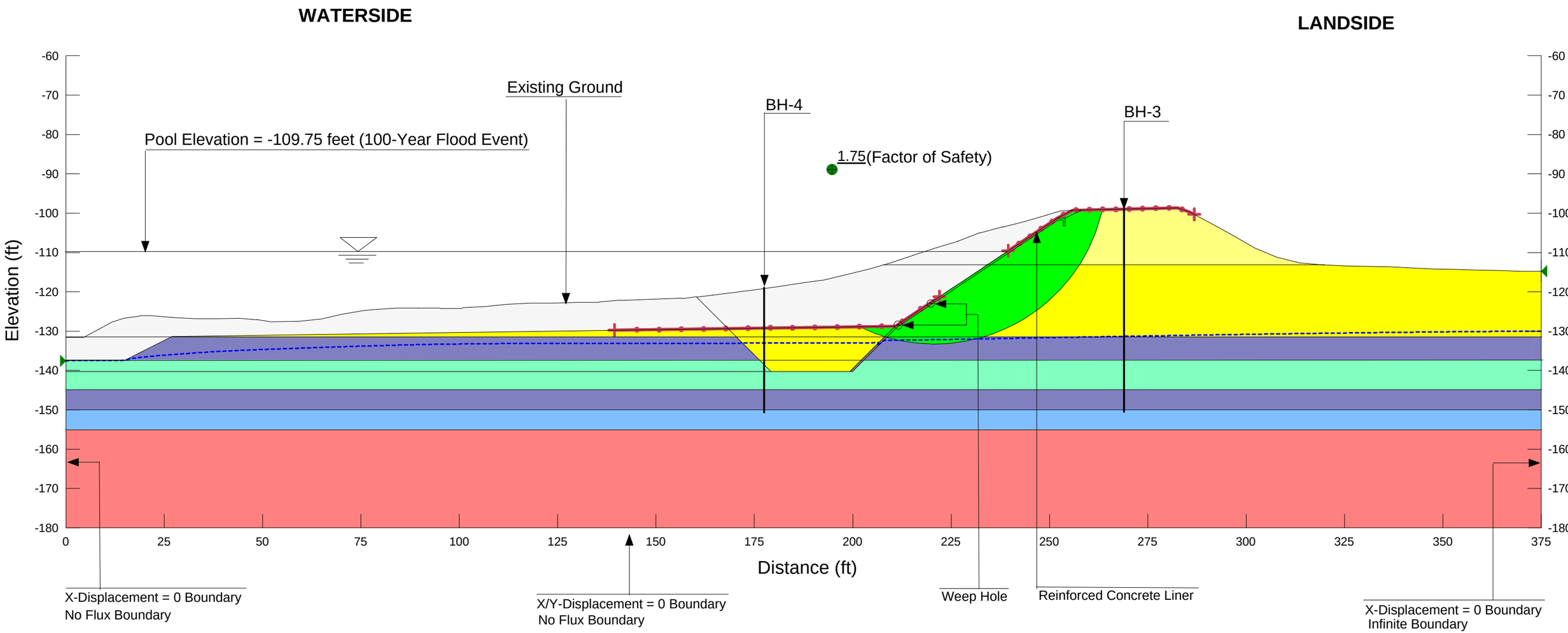
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-1.6

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(STATIC CONDITION, AT END OF CONSTRUCTON)



SCALE: 1" = 25'

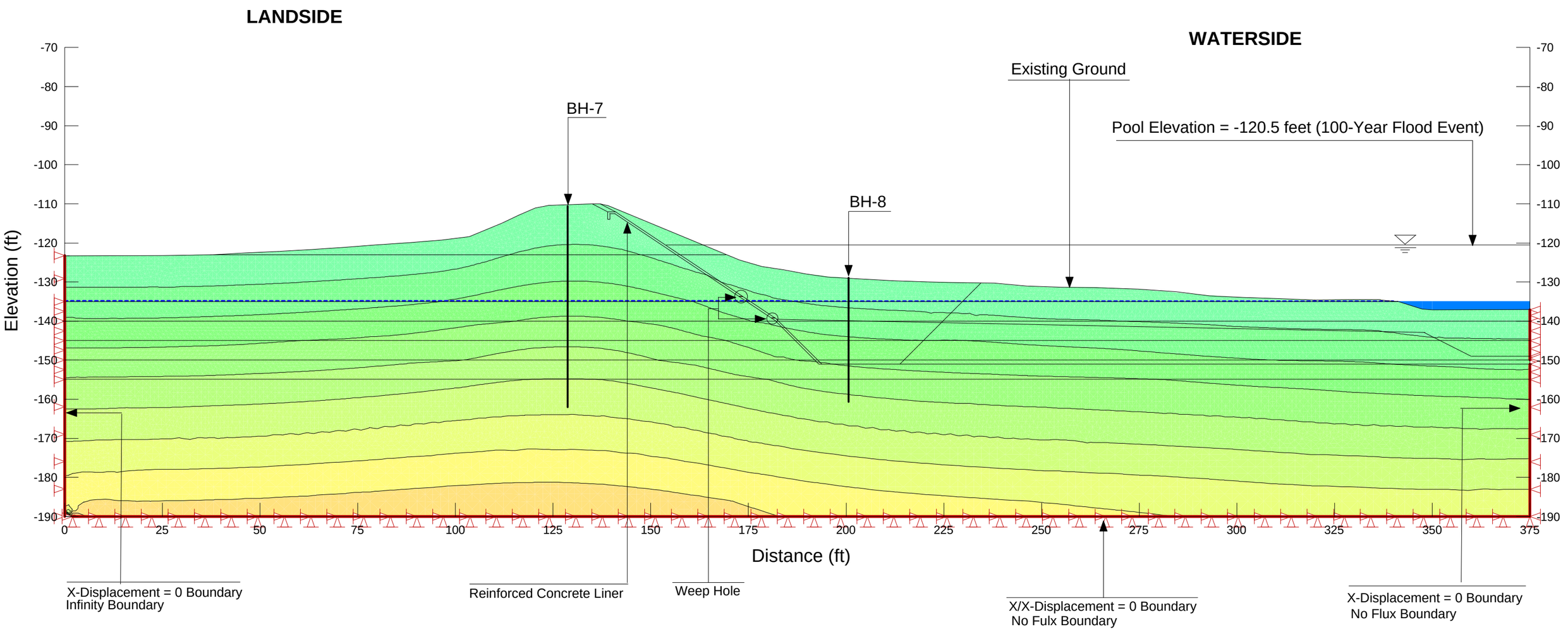
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-1.7

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

VERTICAL STRESS DISTRIBUTION - INSITU CONDITION

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER



SCALE: 1" = 25'

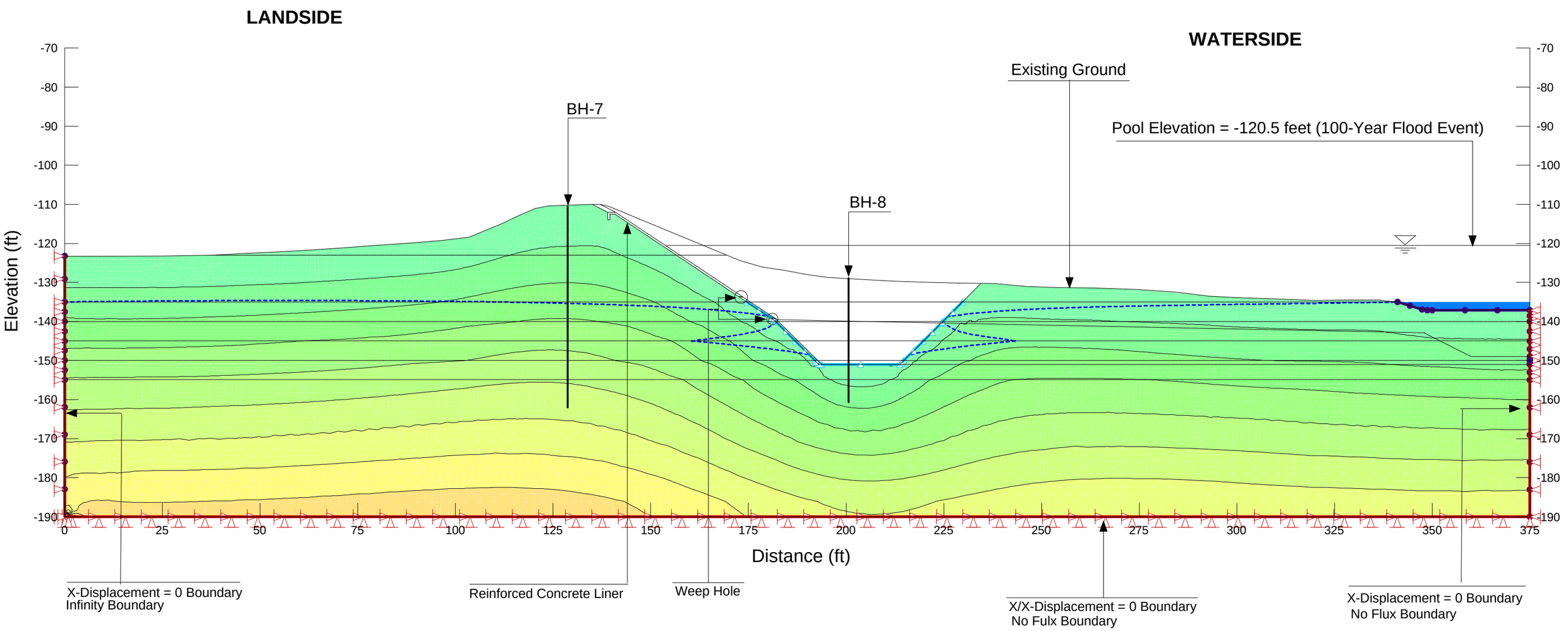
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ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-2.1

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

VERTICAL STRESS DISTRIBUTION - INSITU CONDITION

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER



SCALE: 1" = 25'

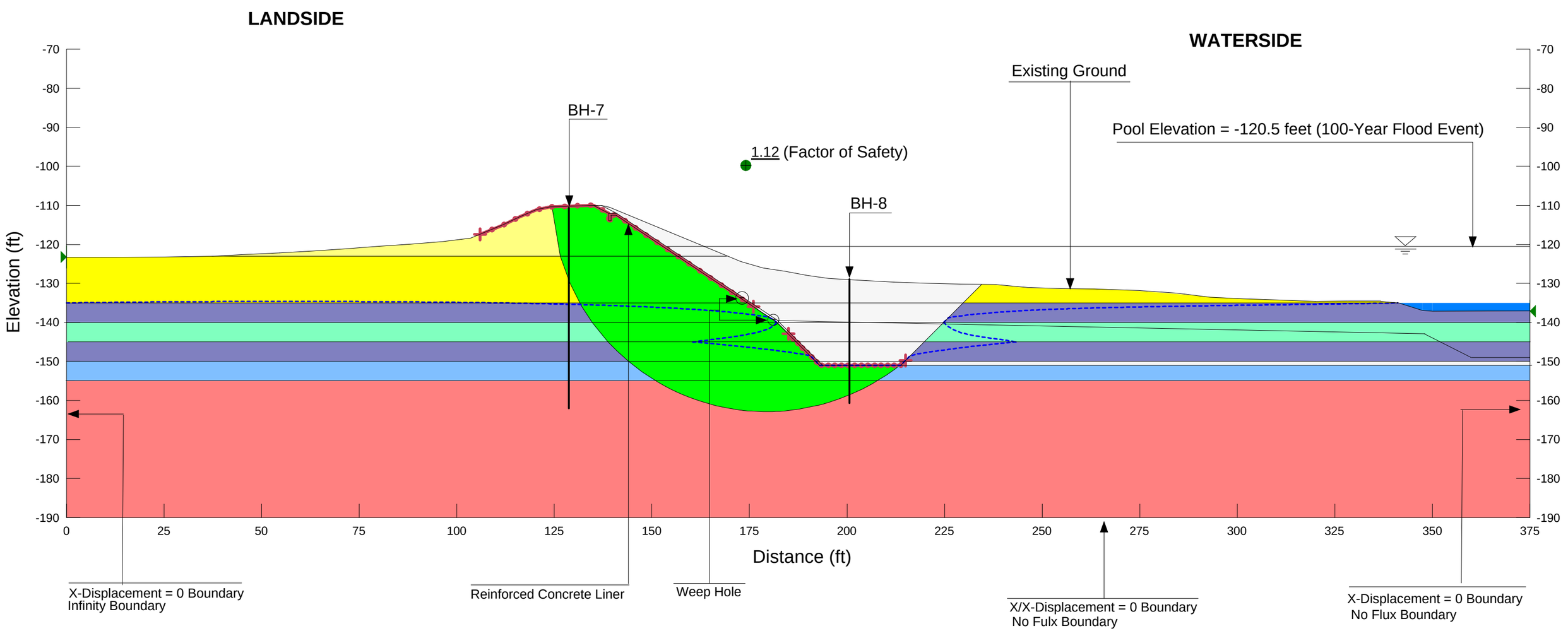
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ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-2.2

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF SLOPE STABILITY ANALYSIS - EXCAVATION CONDITION

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER



SCALE: 1" = 25'

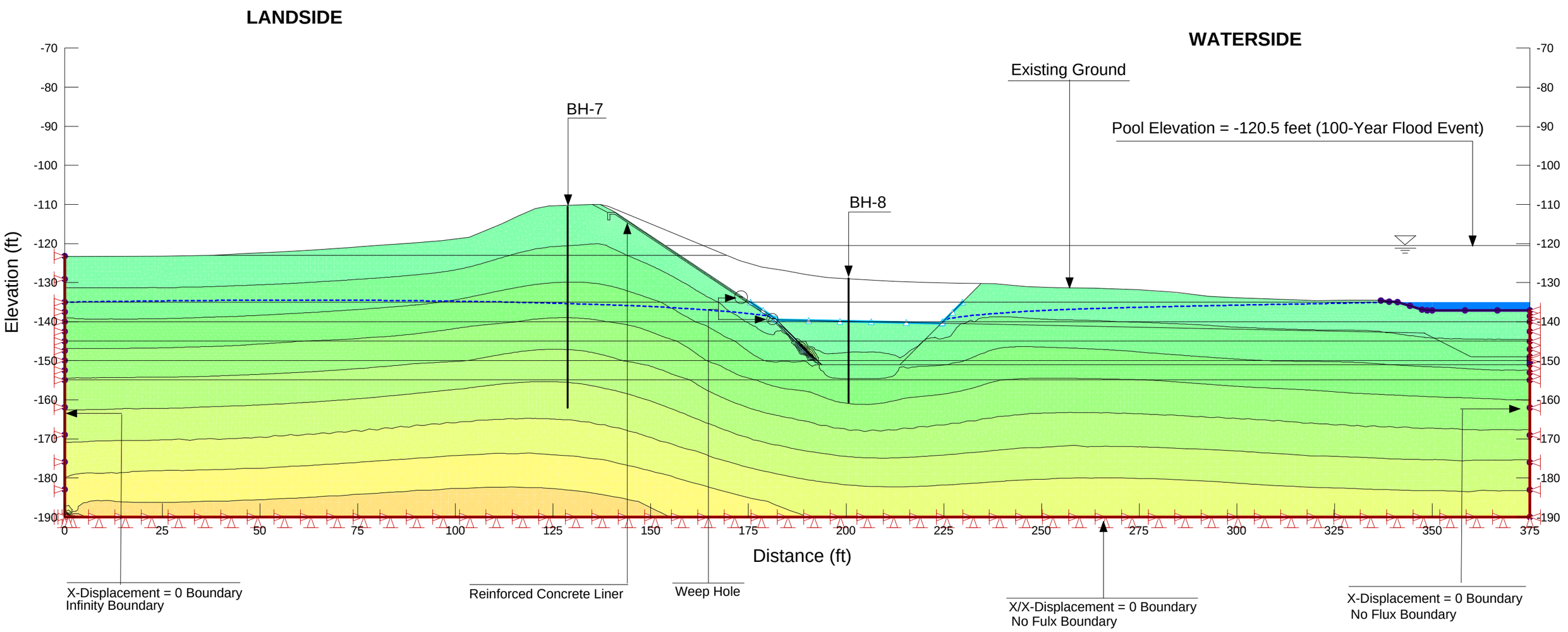
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PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-2.3

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

VERTICAL STRESS DISTRIBUTION - SIDE LINER PLACEMENT AND BACKFILL

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER



SCALE: 1" = 25'

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ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC

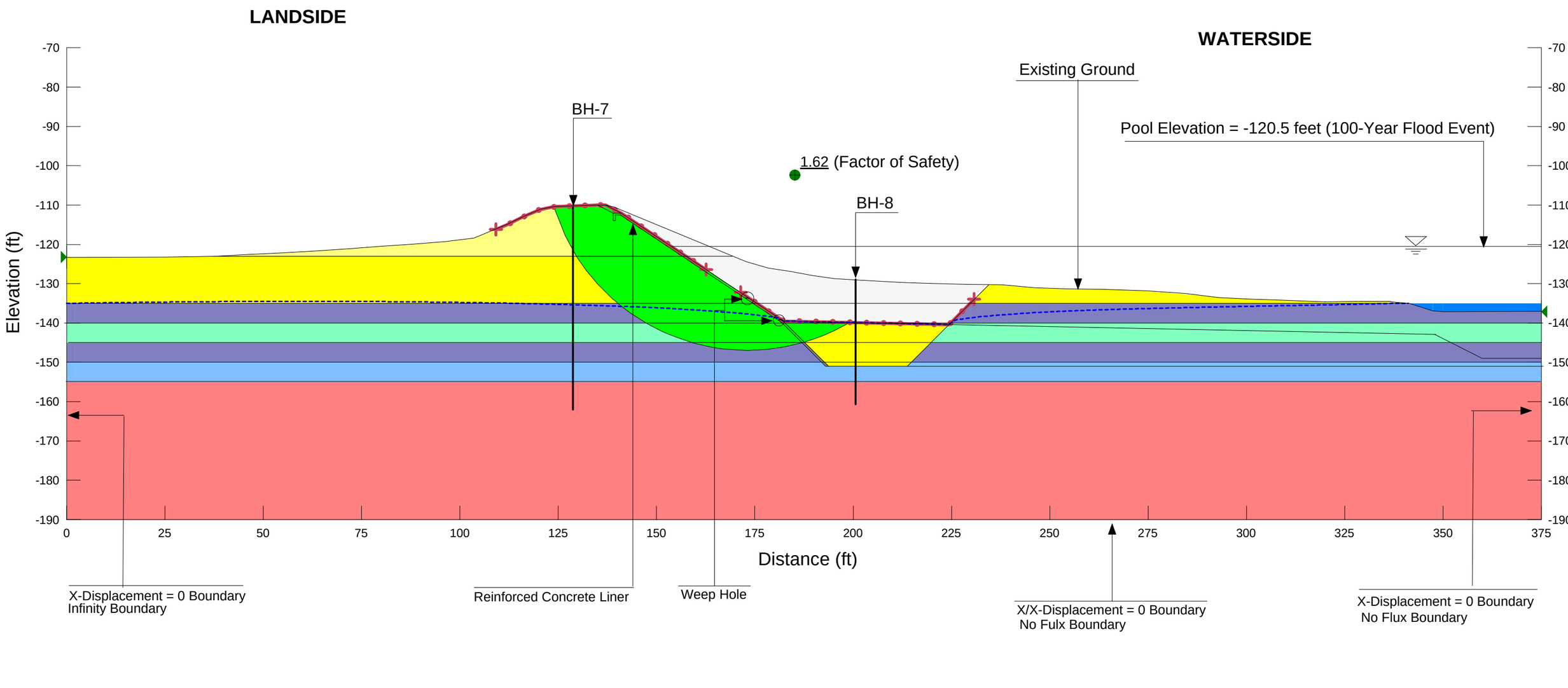
MARCH 22, 2016

FIGURE C-2.4

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

VERTICAL STRESS DISTRIBUTION - SIDE LINER PLACEMENT AND BACKFILL

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER



SCALE: 1" = 25'

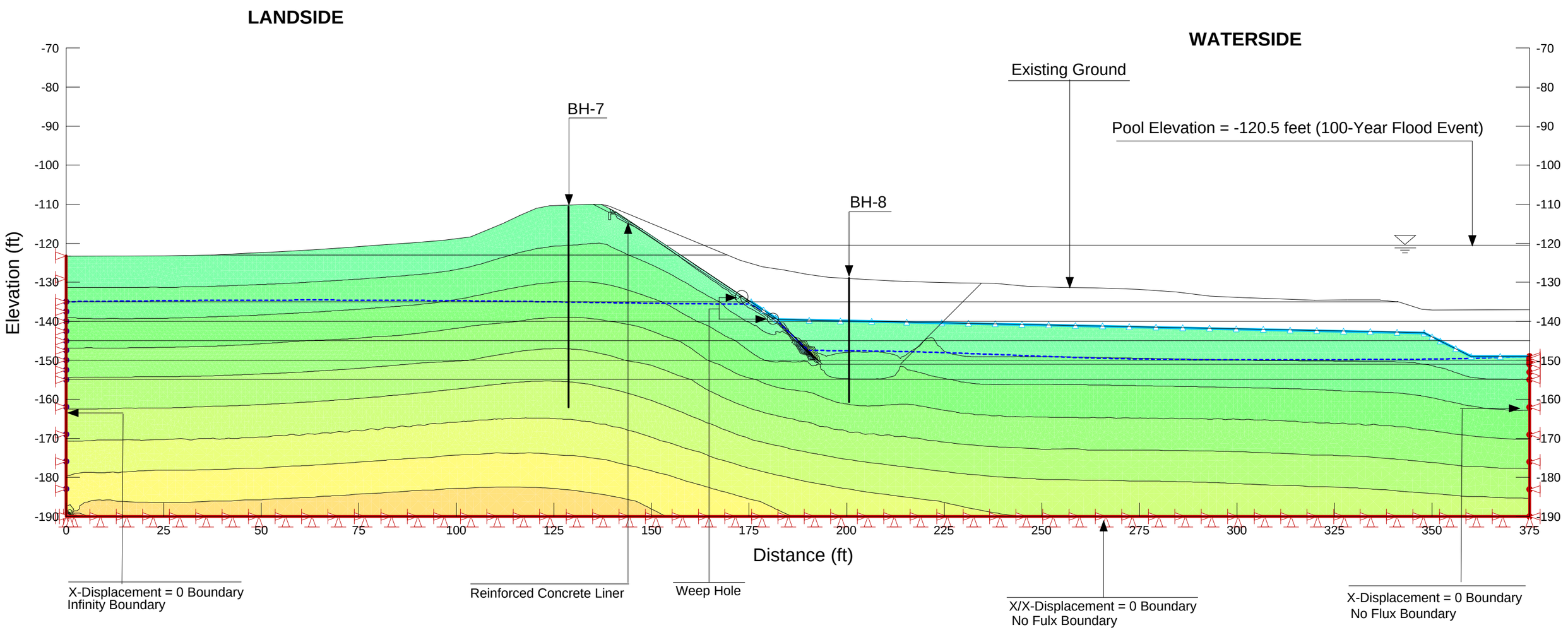
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-2.5

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

VERTICAL STRESS DISTRIBUTION - END OF CONSTRUCTION

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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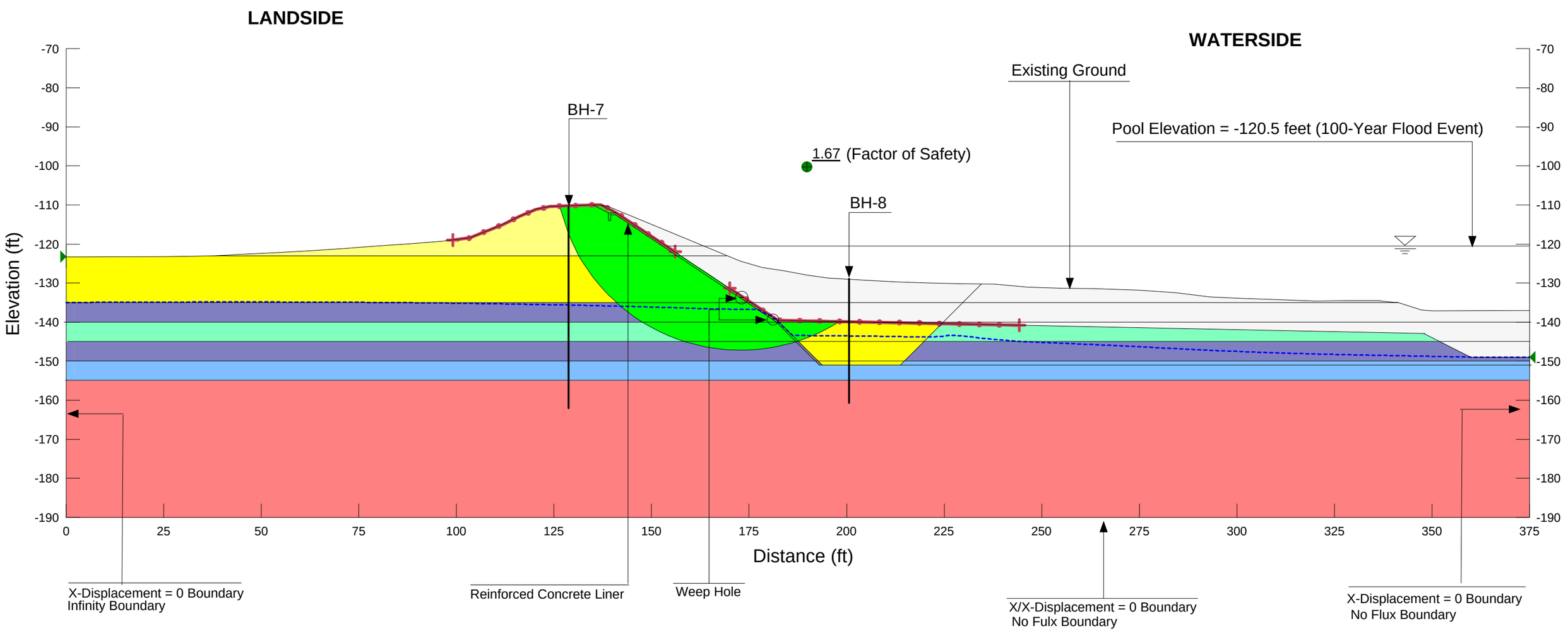
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-2.6

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(STATIC CONDITION, AT END OF CONSTRUCTON)



SCALE: 1" = 25'

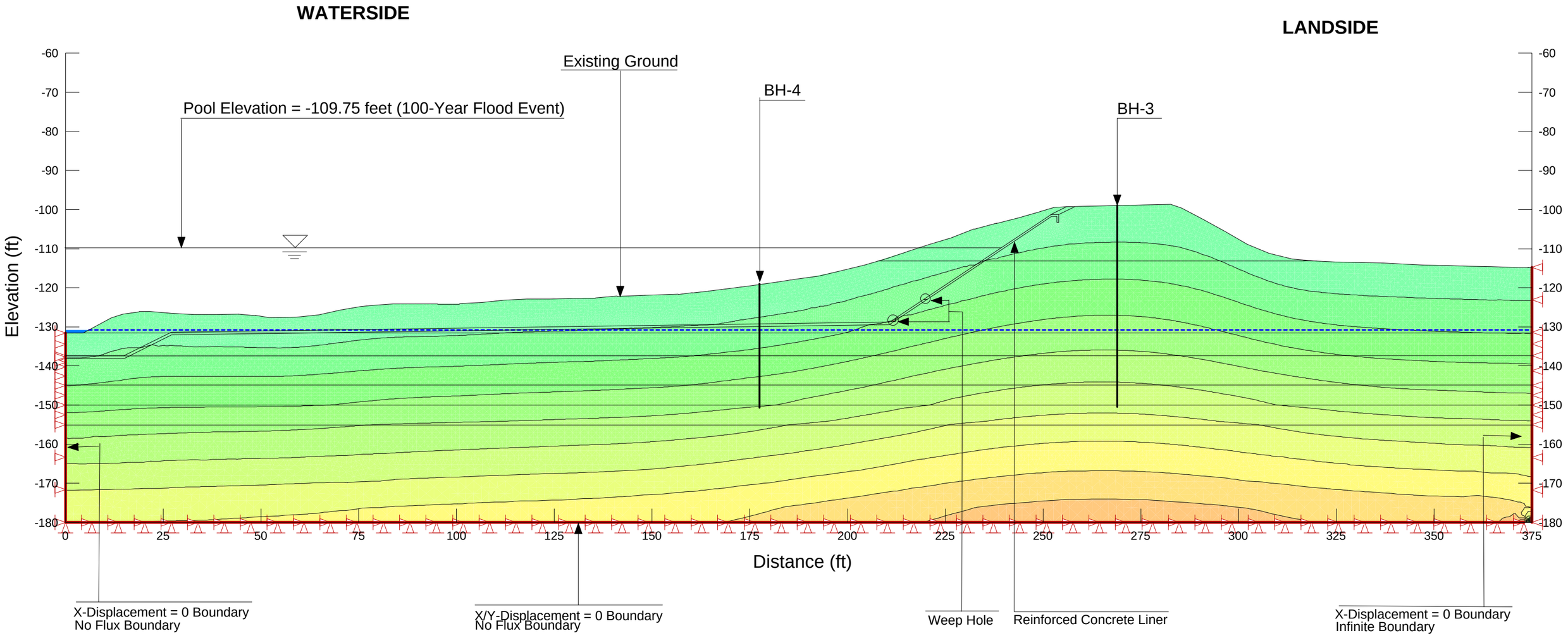
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-2.7

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

VERTICAL STRESS DISTRIBUTION - INSITU CONDITION

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

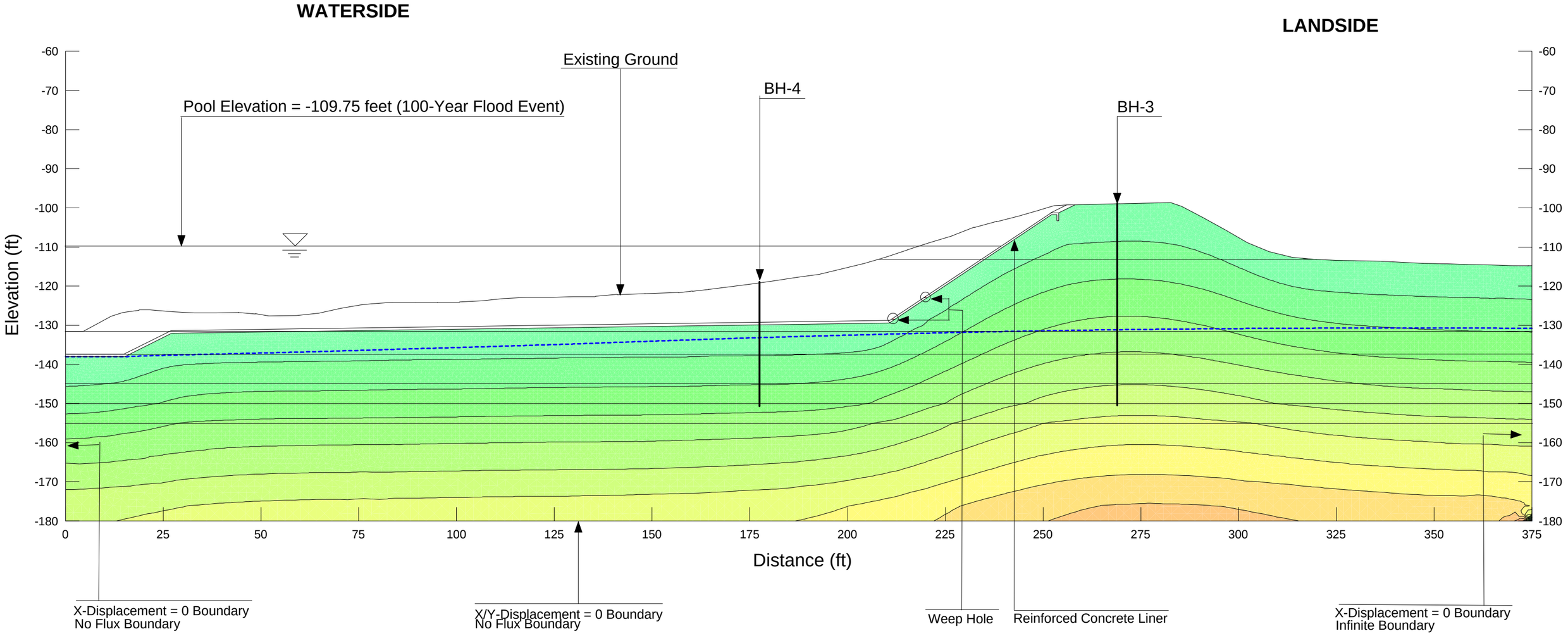
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-3.1

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

VERTICAL STRESS DISTRIBUTION - EXCAVATION CONDITION

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

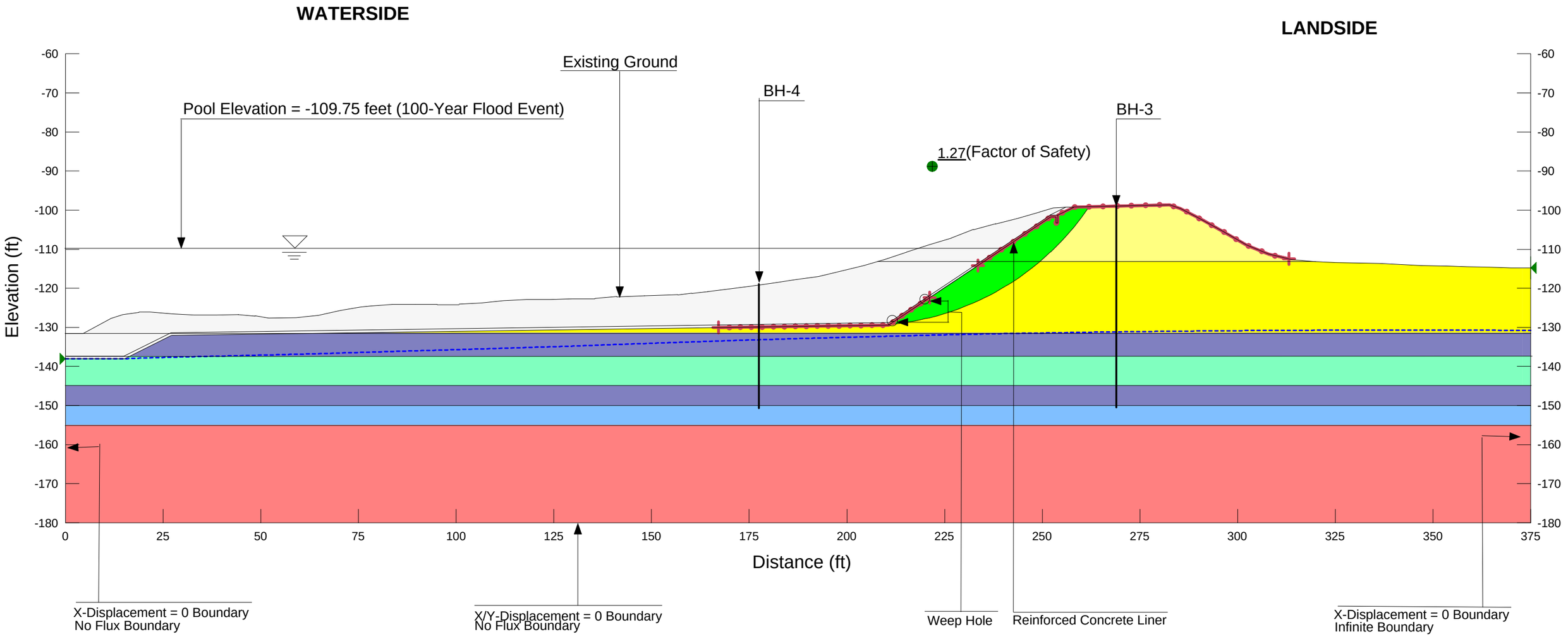
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-3.2

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF SLOPE STABILITY ANALYSIS - EXCAVATION CONDITION

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

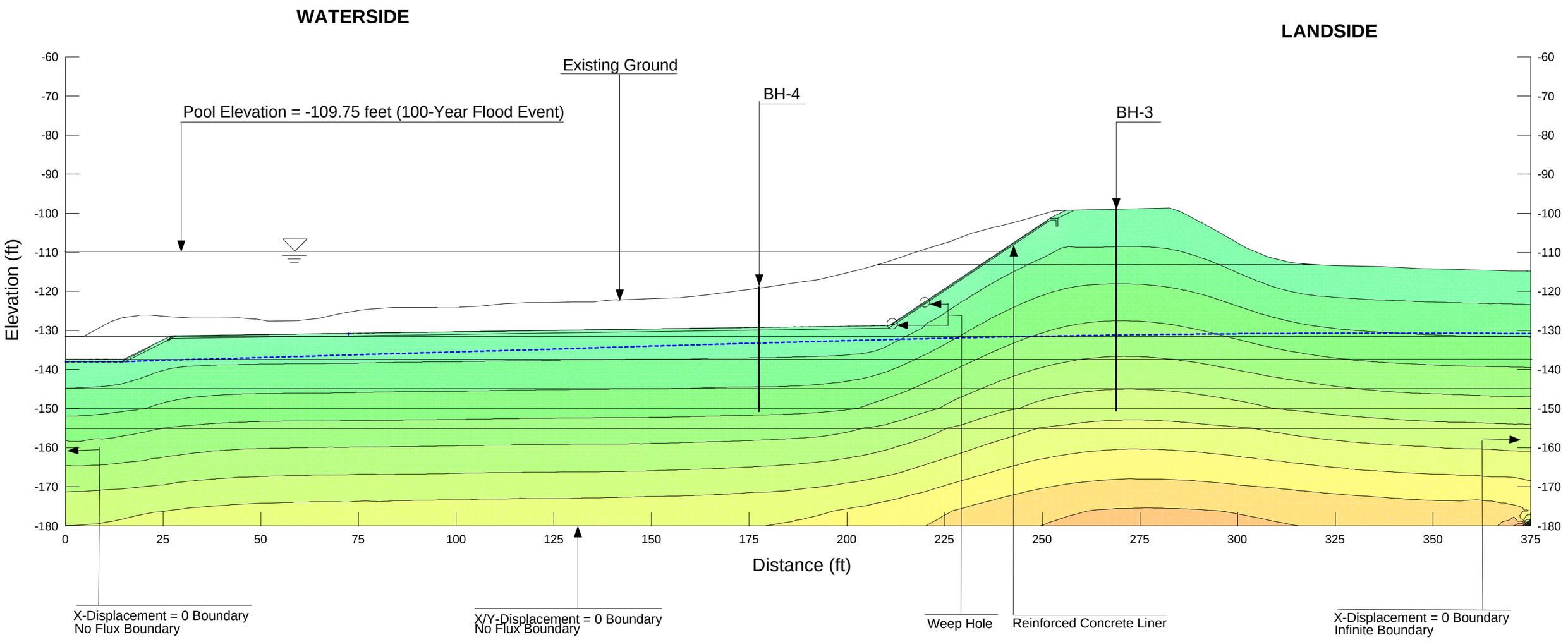
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-3.3

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

VERTICAL STRESS DISTRIBUTION - AFTER LINER PLACEMENT

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

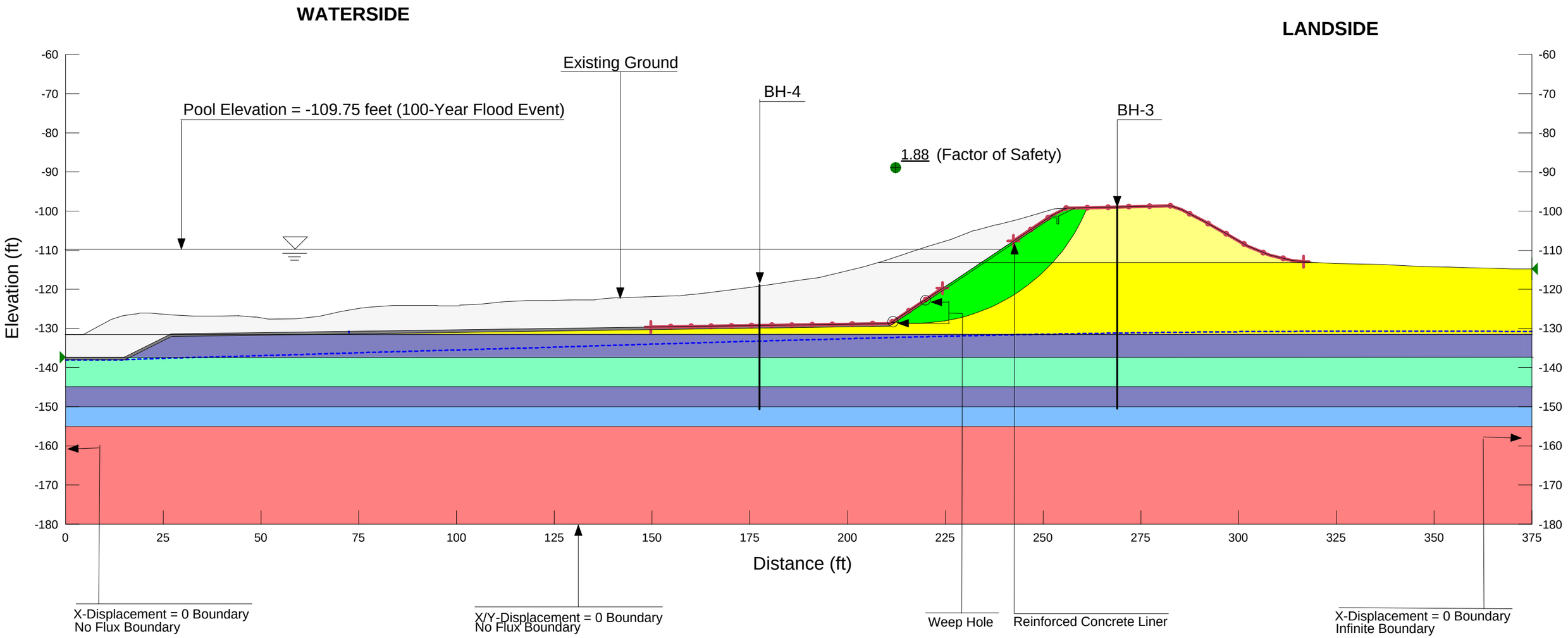
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-3.4

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF SLOPE STABILITY ANALYSIS - TRAPEZOIDAL LINER PLACEMENT

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

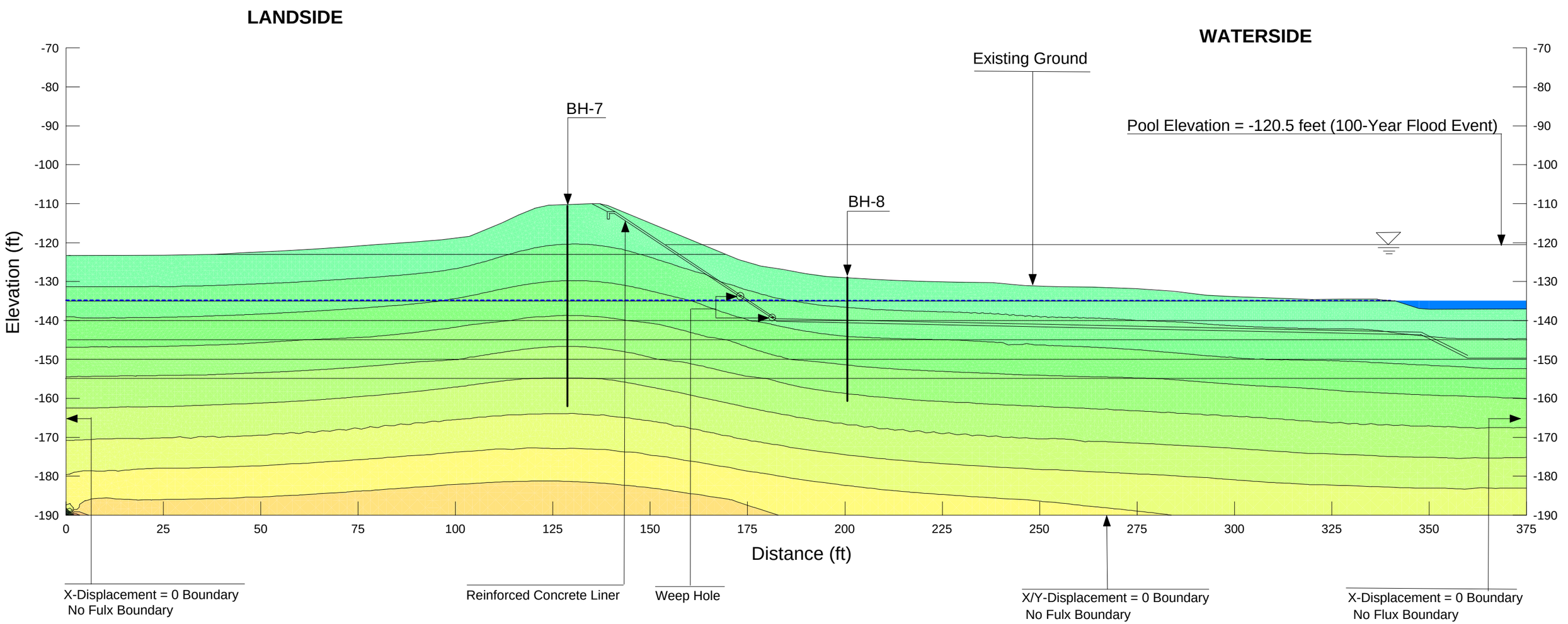
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-3.5

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

VERTICAL STRESS DISTRIBUTION - INSITU CONDITION

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

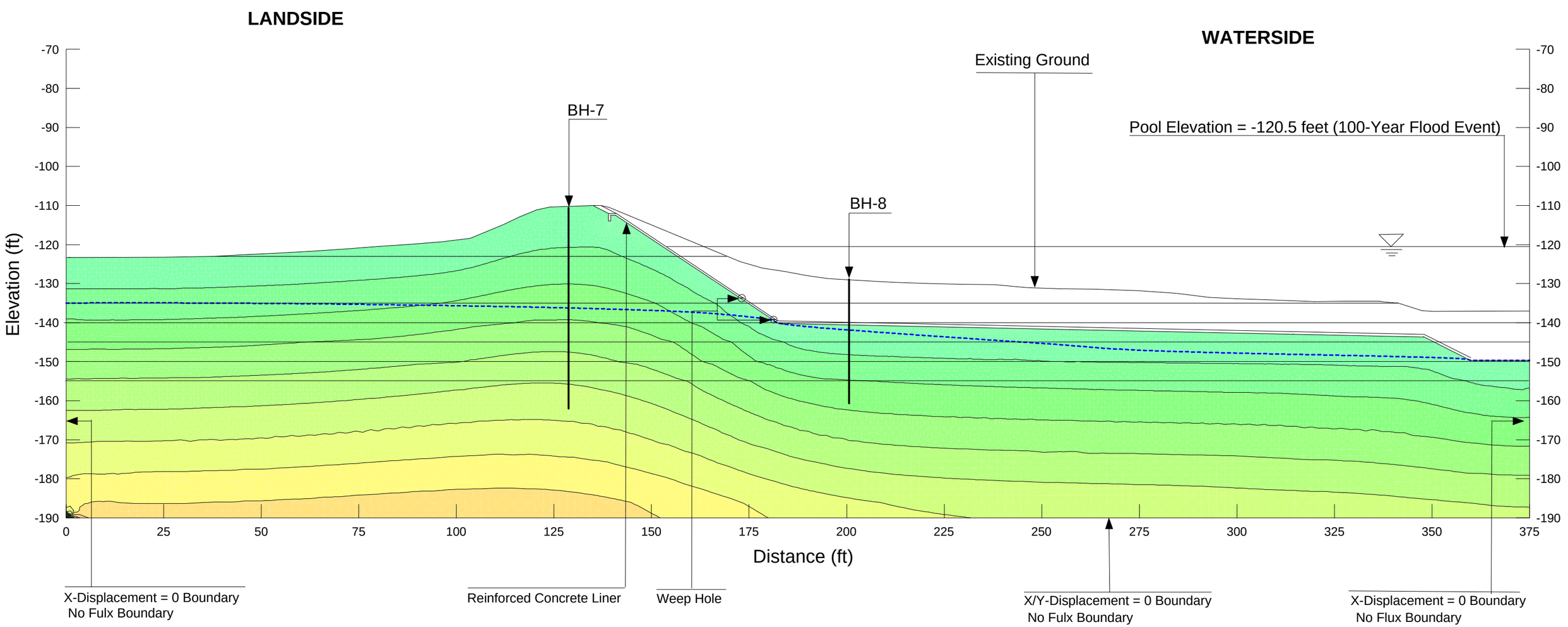
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-4.1

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

VERTICAL STRESS DISTRIBUTION - EXCAVATION CONDITION

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

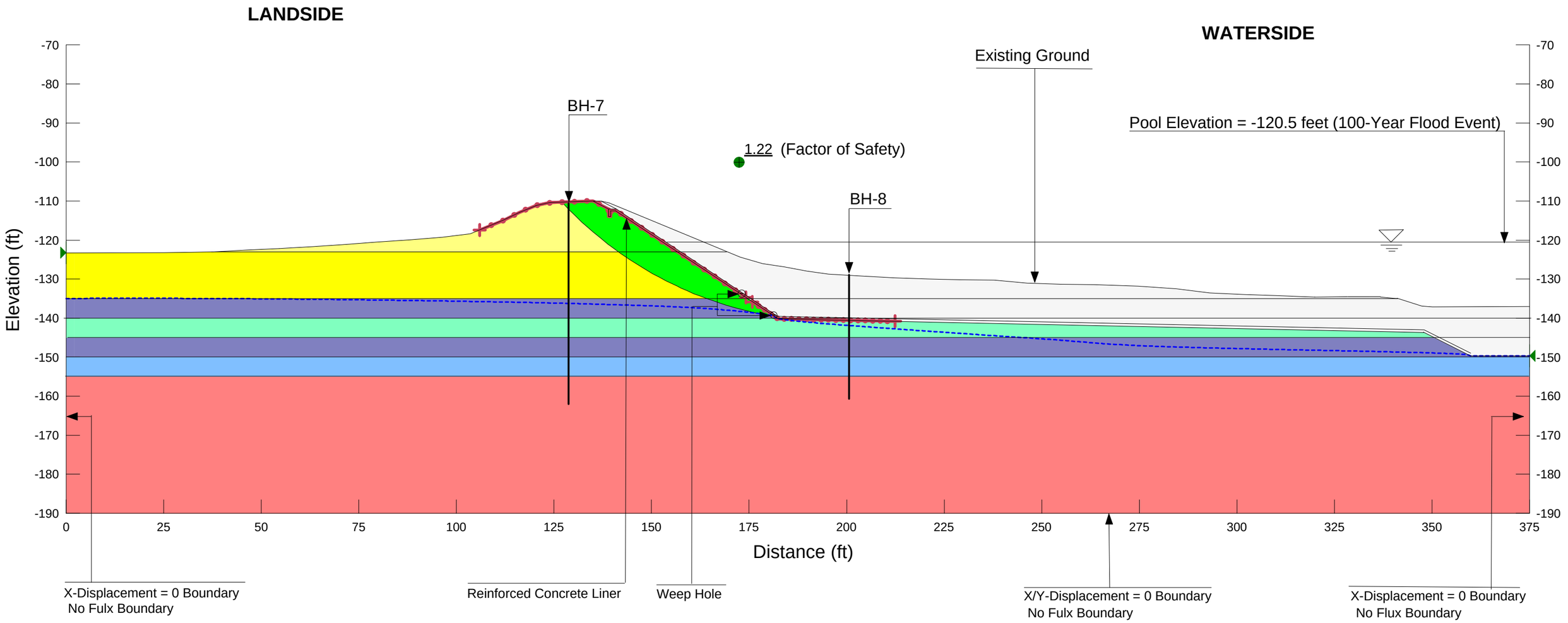
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-4.2

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF SLOPE STABILITY ANALYSIS - EXCAVATION CONDITION

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

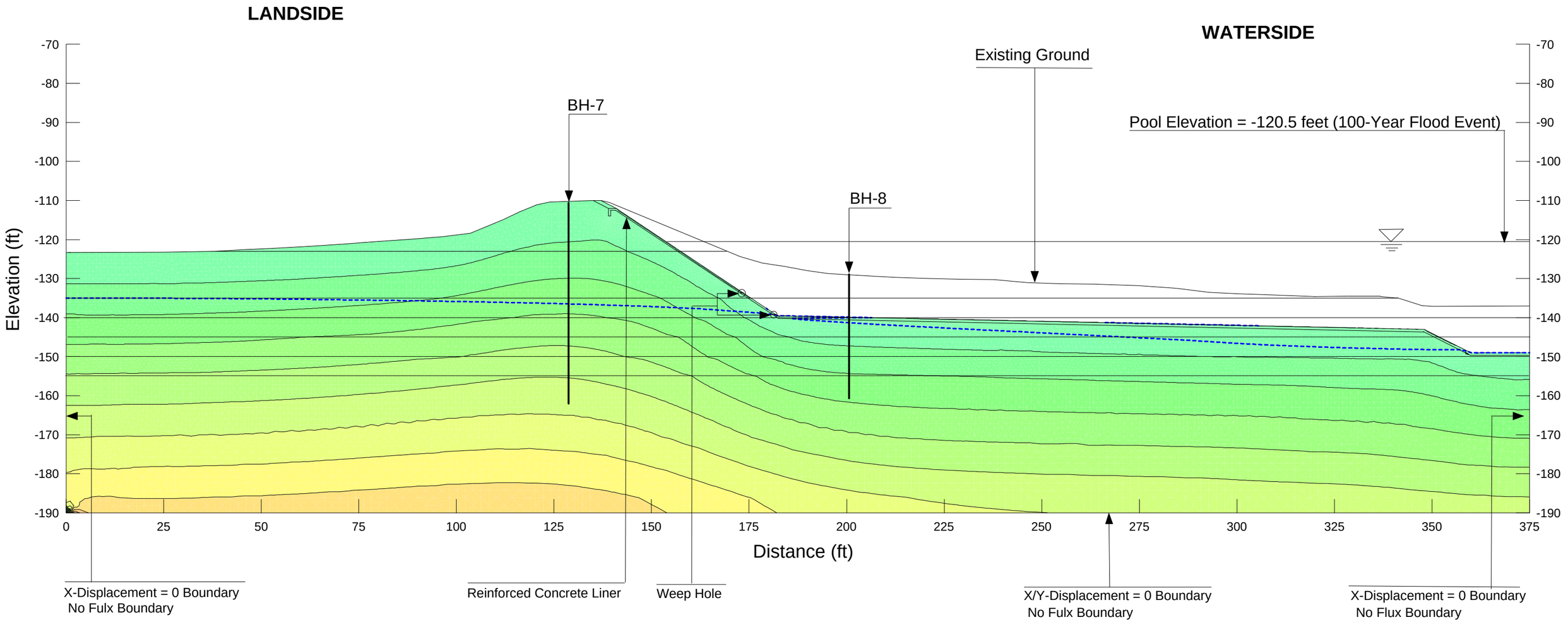
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-4.3

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

VERTICAL STRESS DISTRIBUTION - AFTER LINER PLACEMENT

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

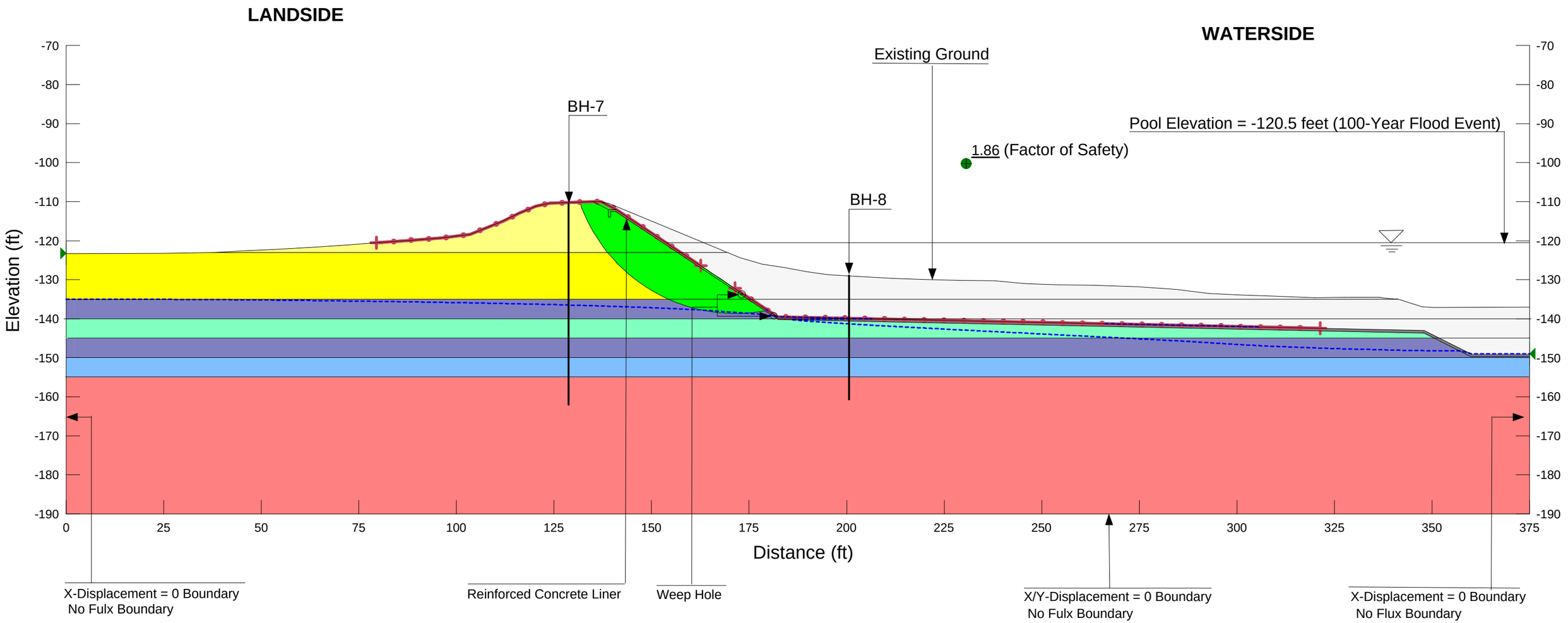
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-4.4

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF SLOPE STABILITY ANALYSIS - AFTER LINER PLACEMENT

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE C-4.5

APPENDIX D

SUMMARY OF RESULTS OF SEEPAGE AND SLOPE STABILITY ANALYSES

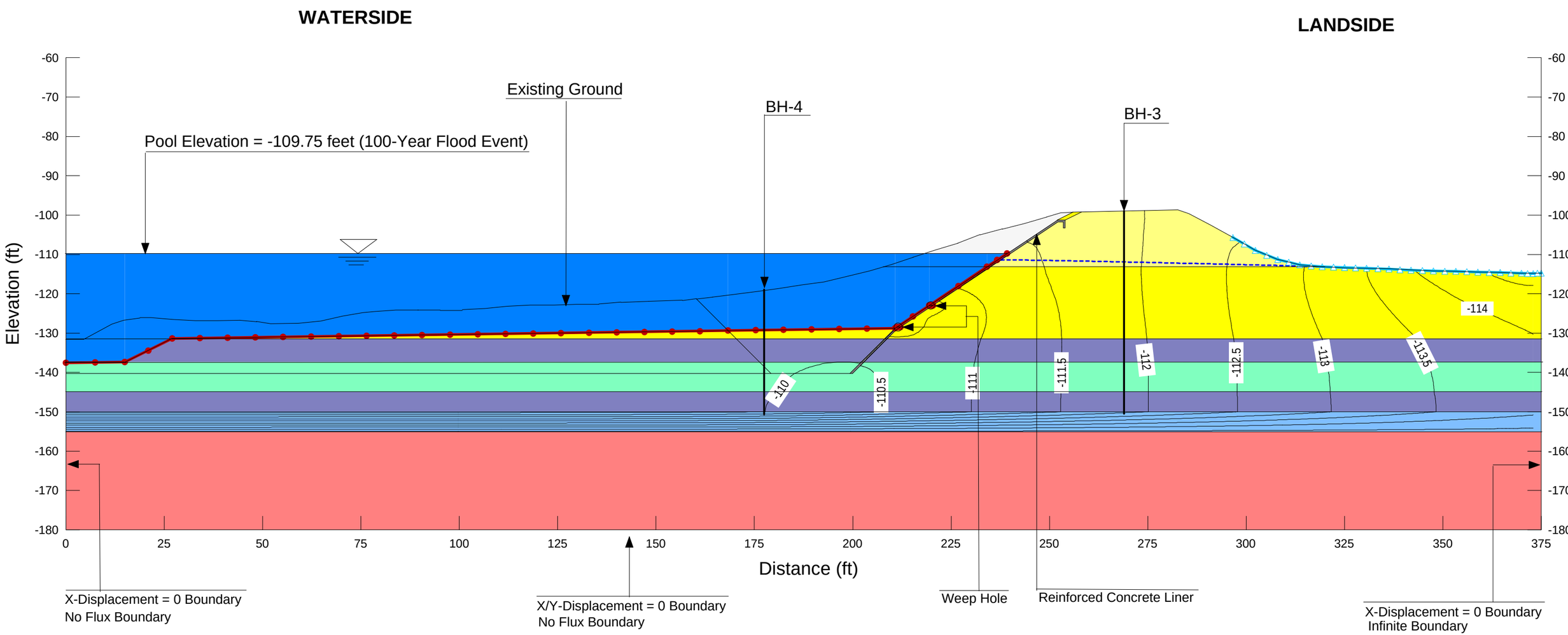
FOR

100-YEAR FLOOD EVENT

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF SEEPAGE ANALYSIS - 100-YEAR FLOOD EVENT

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

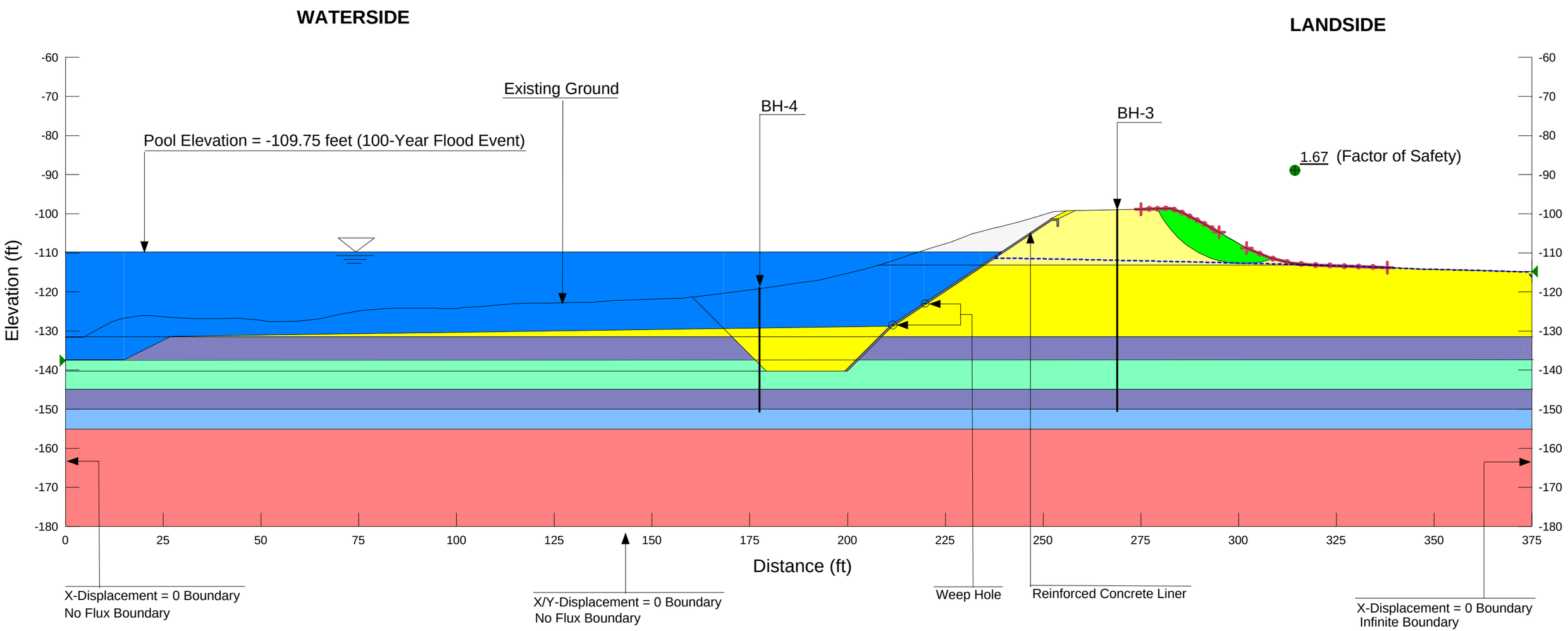
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-1.1

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(STATIC CONDITION, 100-YEAR FLOOD EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

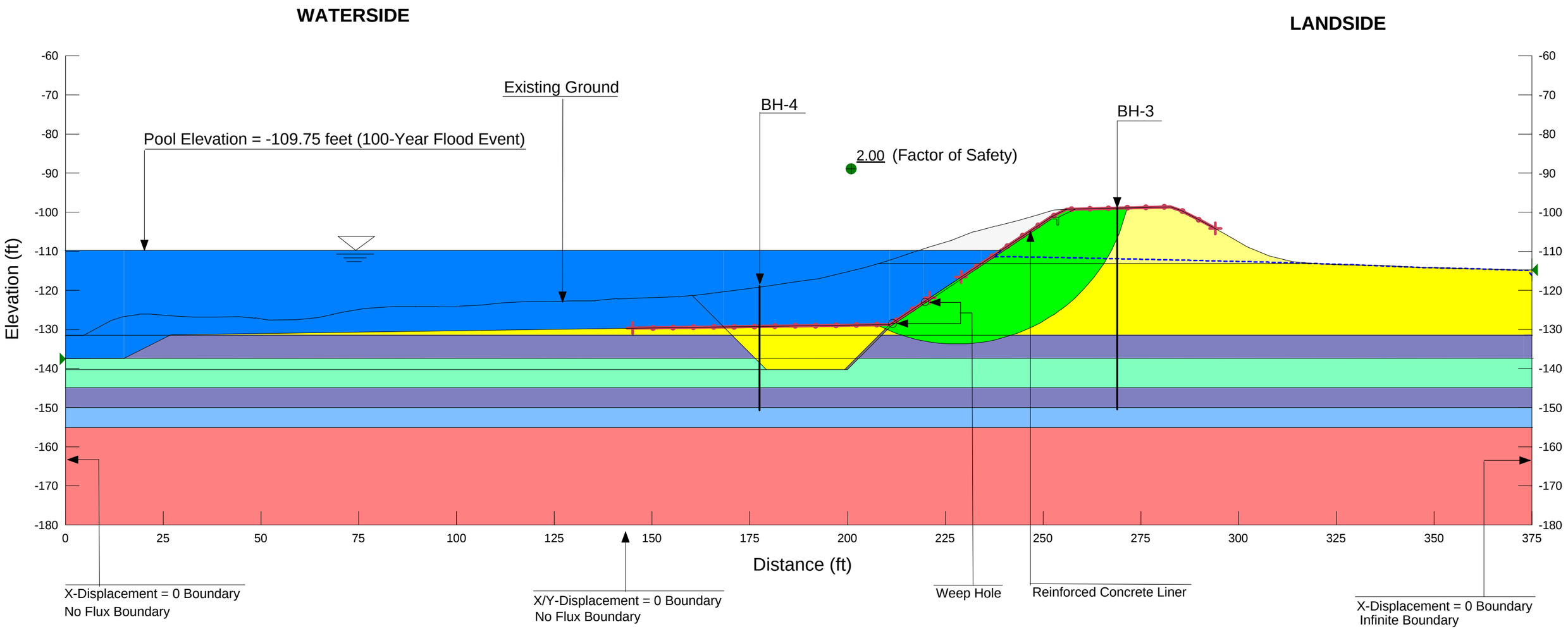
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-1.2

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(STATIC CONDITION, 100-YER FLOOD EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

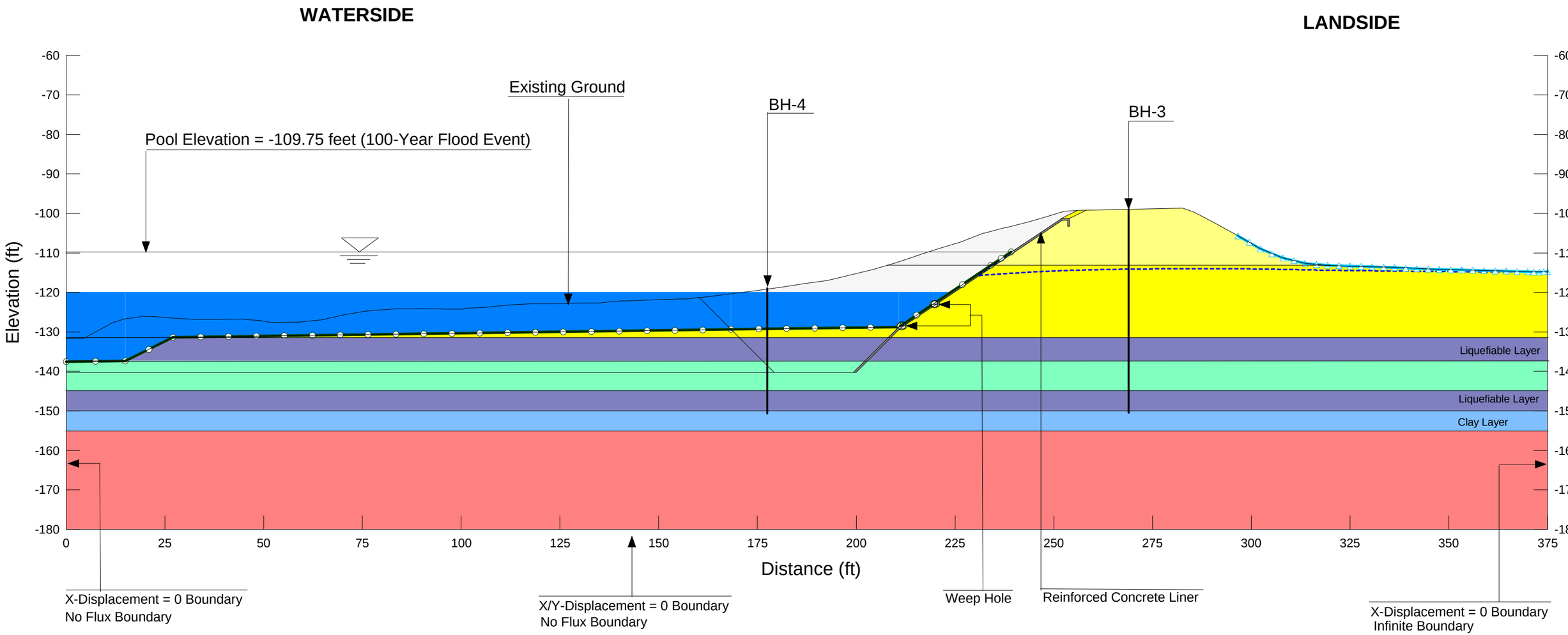
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-1.3

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF TRANSIENT SEEPAGE ANALYSIS

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(T = 4 h, 100-YEAR FLOOD EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

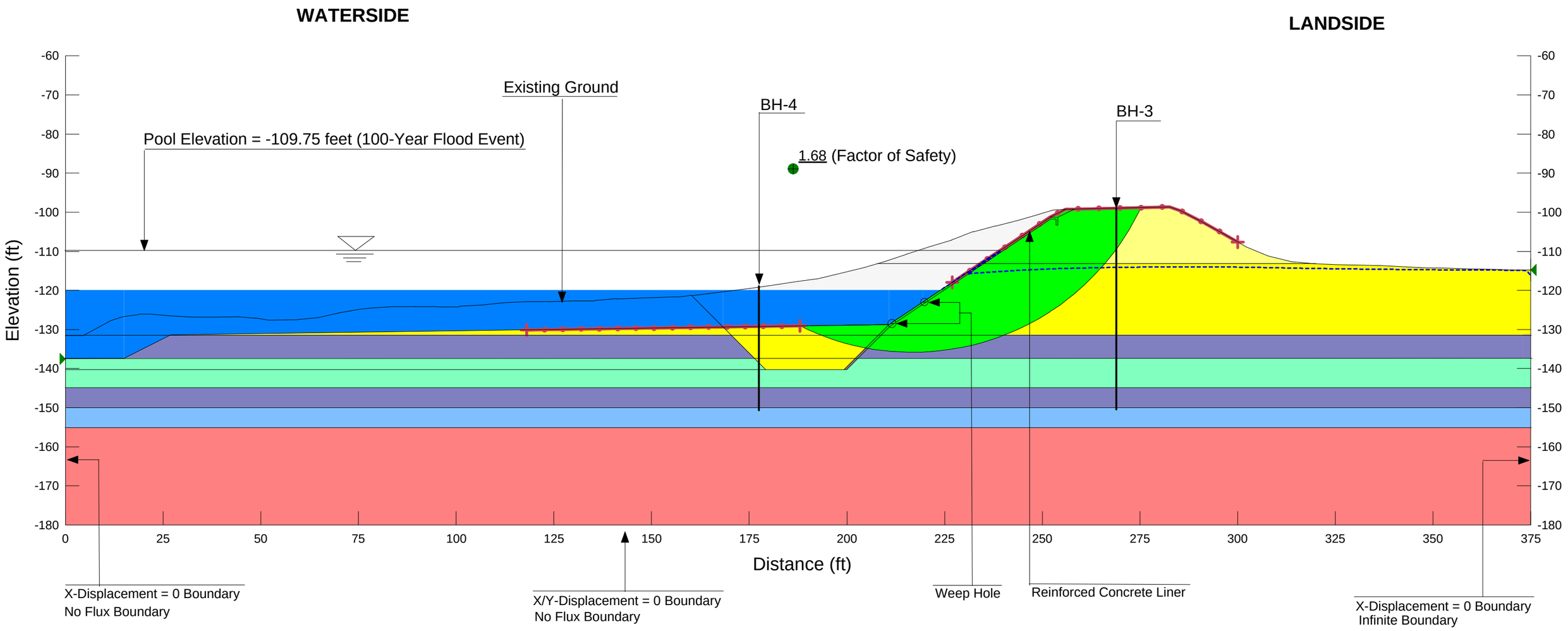
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-1.4

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(RAPID DRAWDOWN CONDITION, T = 4 h, 100-YEAR FLOOD EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

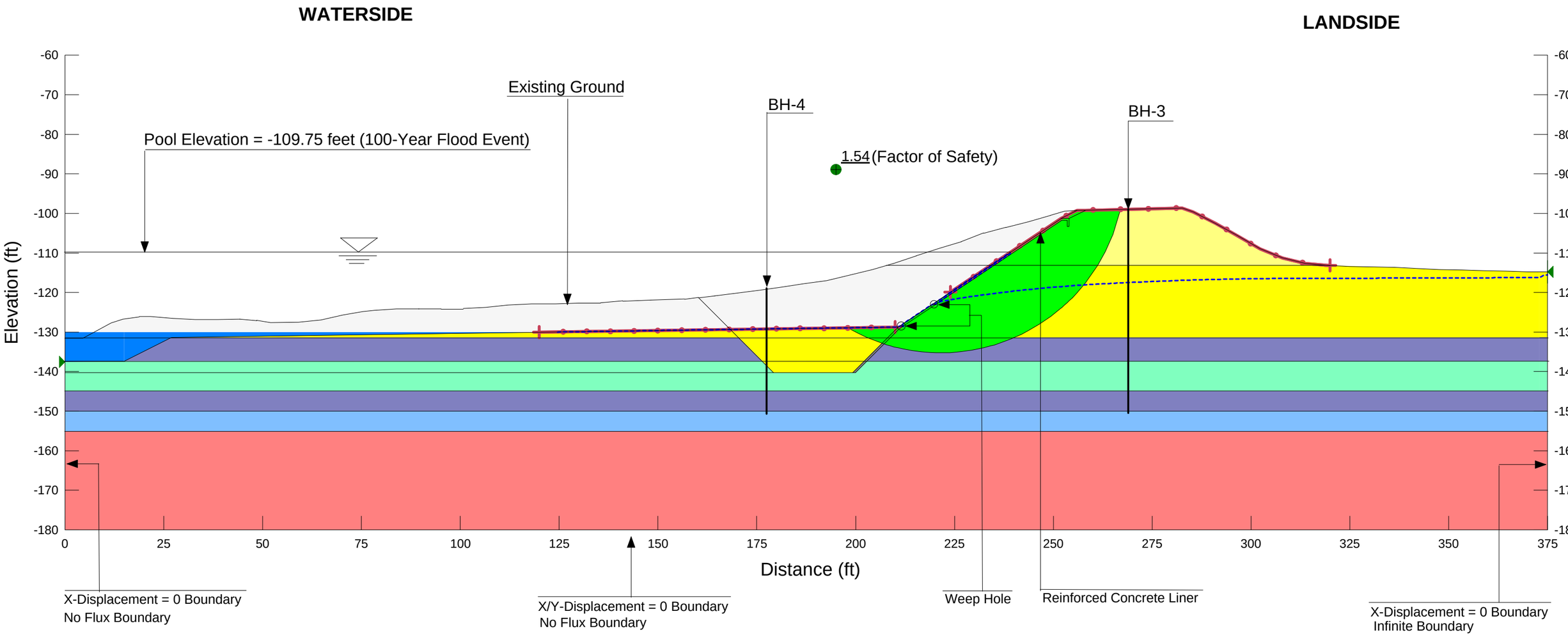
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-1.5

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(RAPID DRAWDOWN CONDITION, T = 8 h, 100-YEAR FLOOD EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

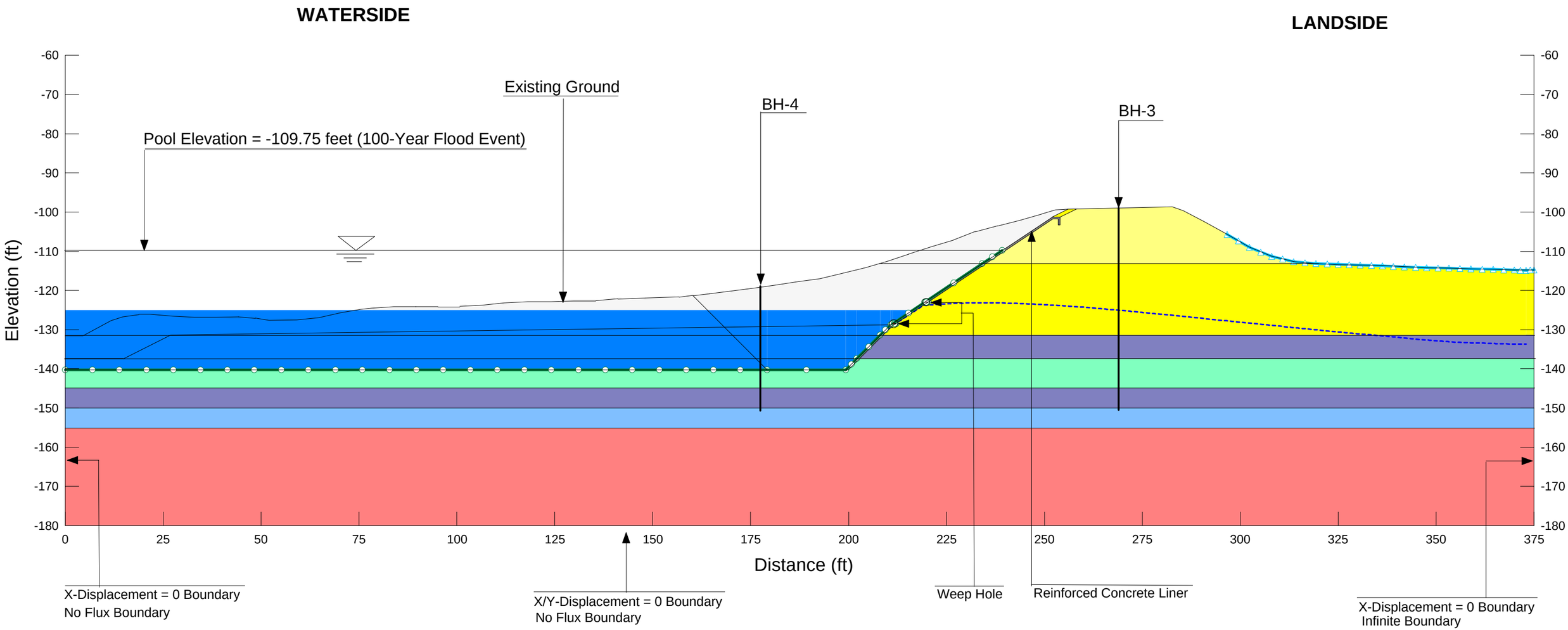
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-1.6

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF TRANSIENT SEEPAGE ANALYSIS

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(T = 4 h, 100-YEAR FLOOD EVENT, AFTER SCOUR)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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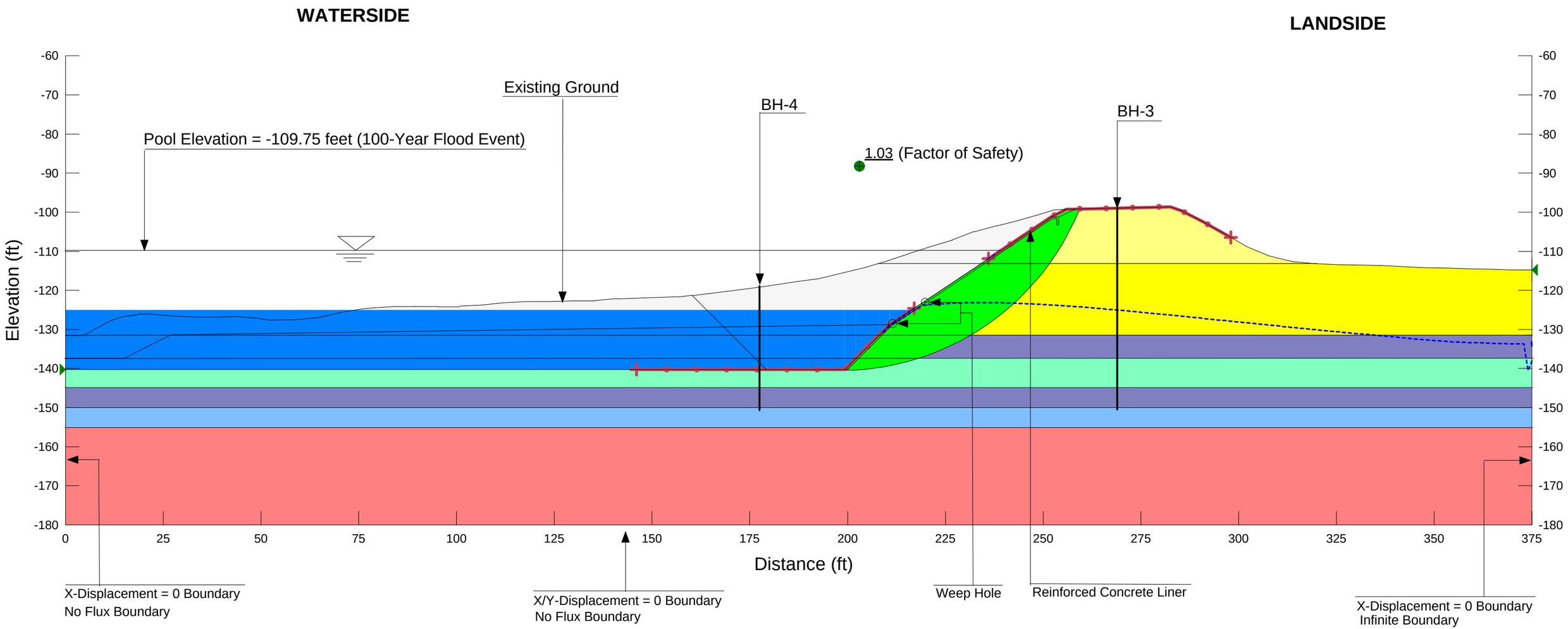
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-1.7

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(RAPID DRAWDOWN CONDITION, T = 4 h, 100-YEAR FLOOD EVENT, AFTER SCOUR)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

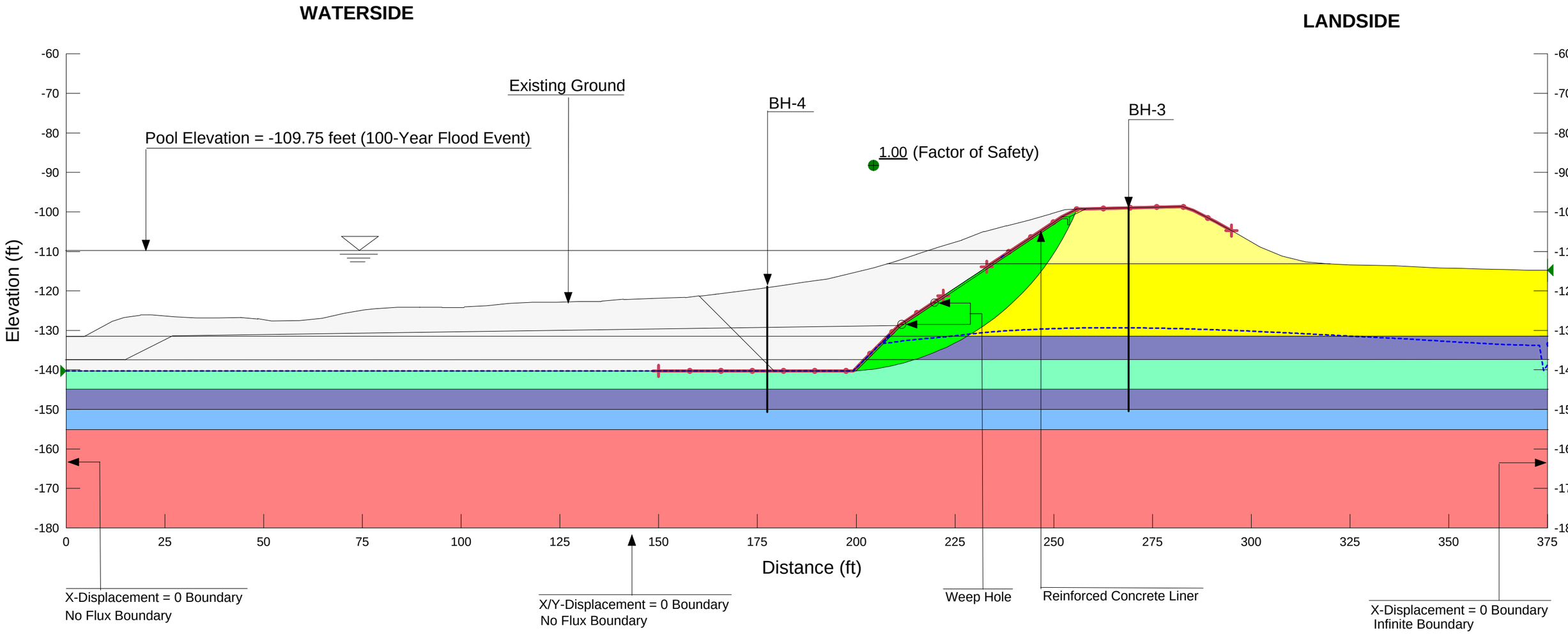
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-1.8

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(RAPID DRAWDOWN CONDITION, T = 8 h, 100-YEAR FLOOD EVENT, AFTER SCOUR)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

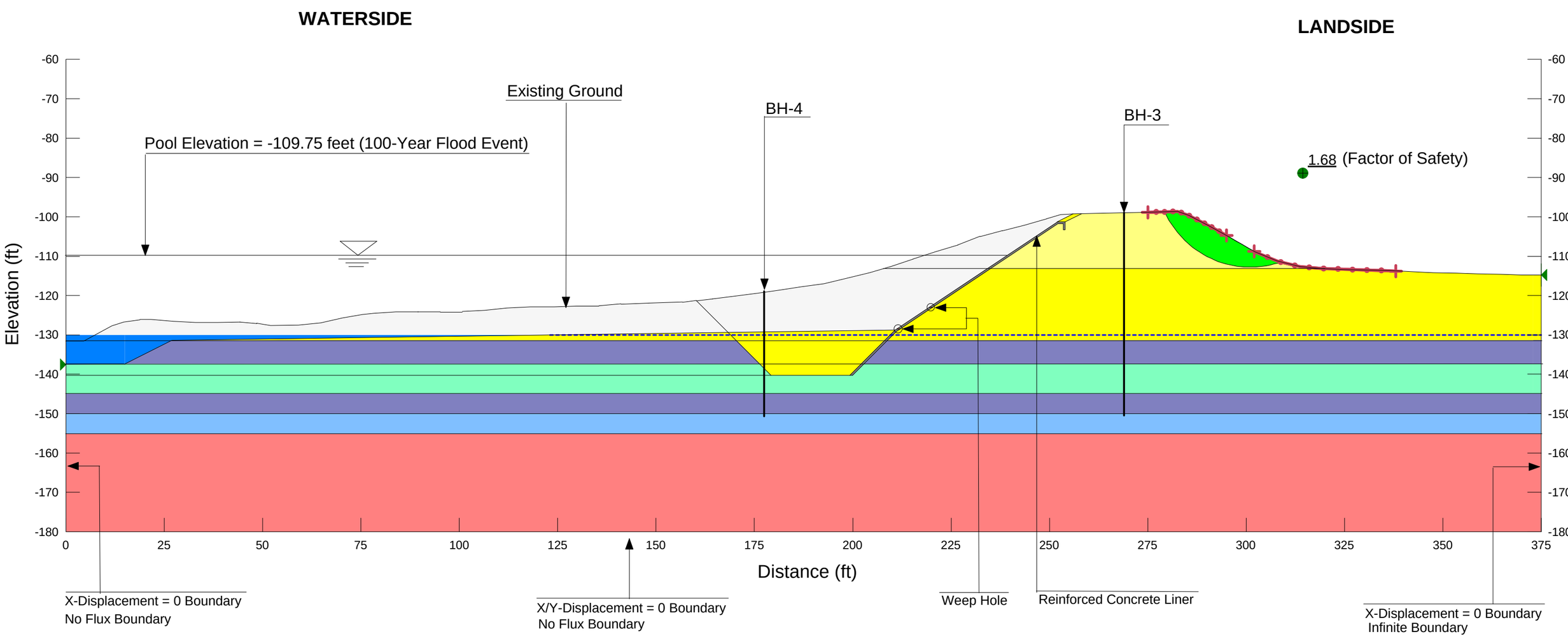
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-1.9

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(STATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

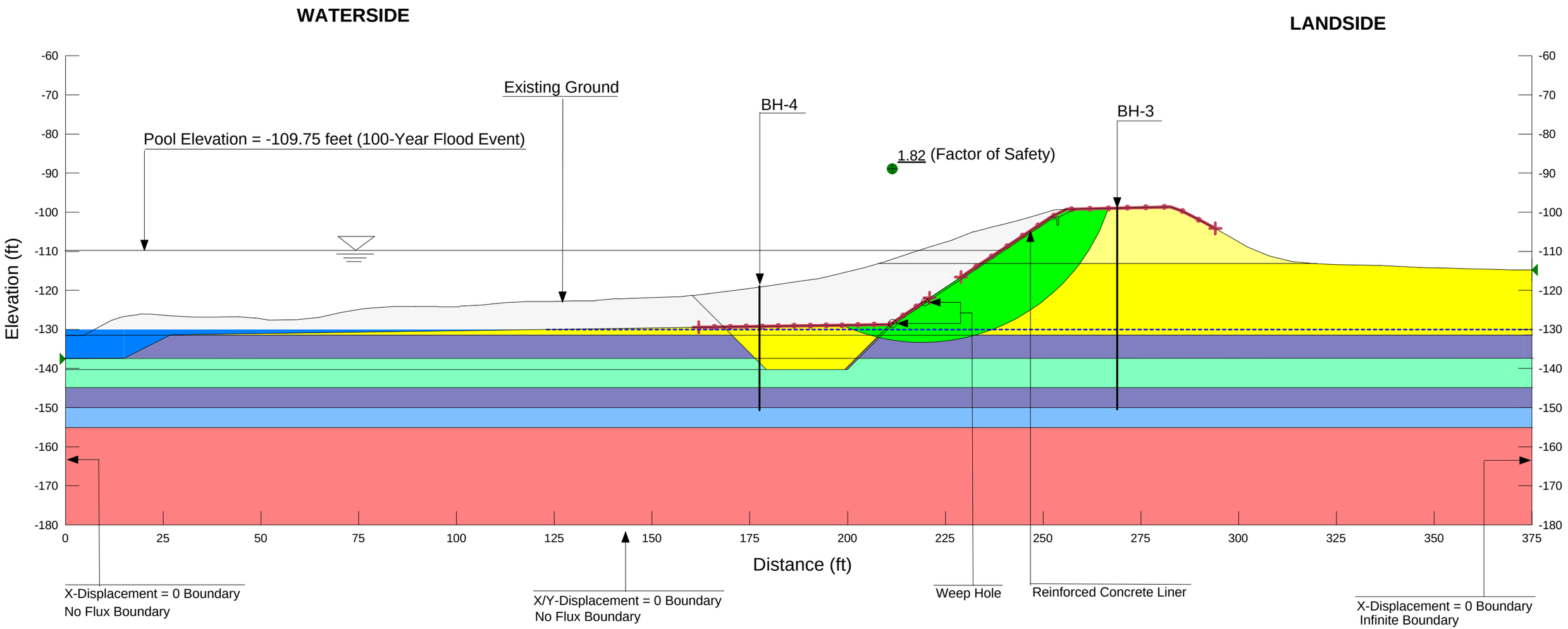
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-1.10

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(STATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

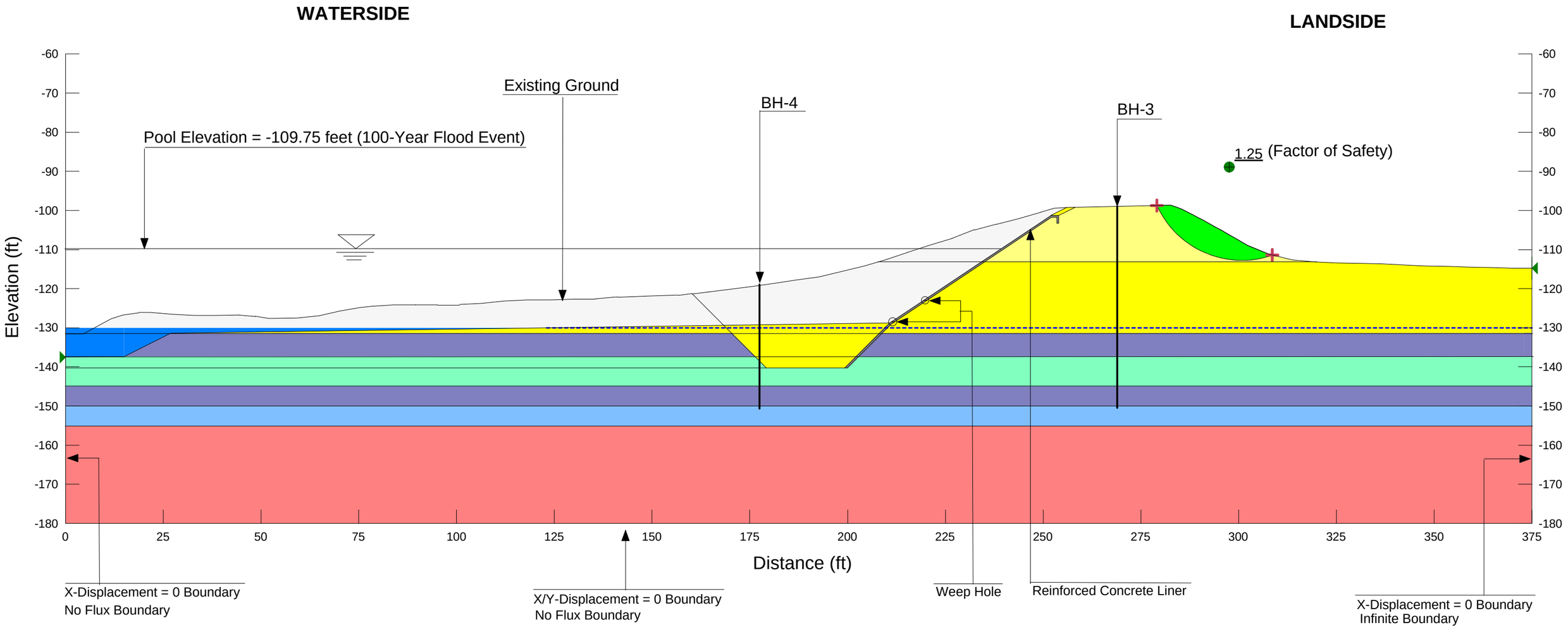
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-1.11

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(PSEUDOSTATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

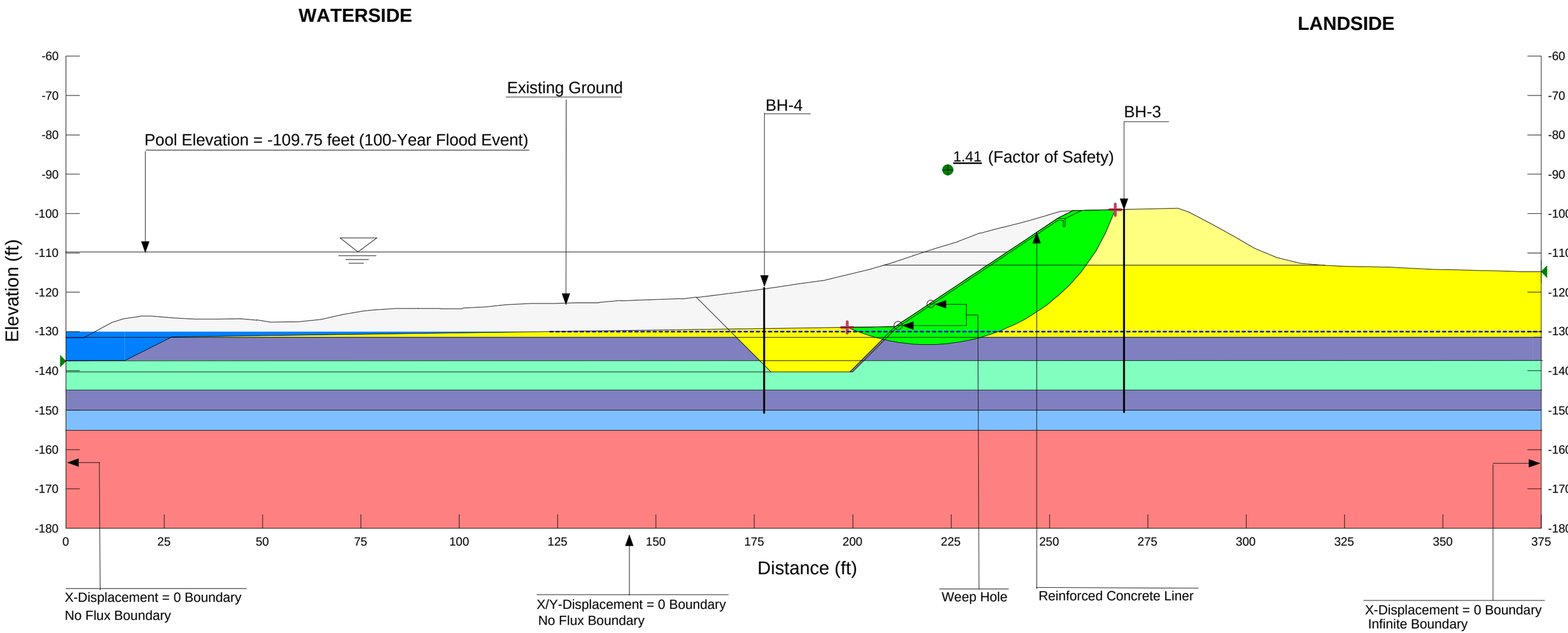
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-1.12

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(PSEUDOSTATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

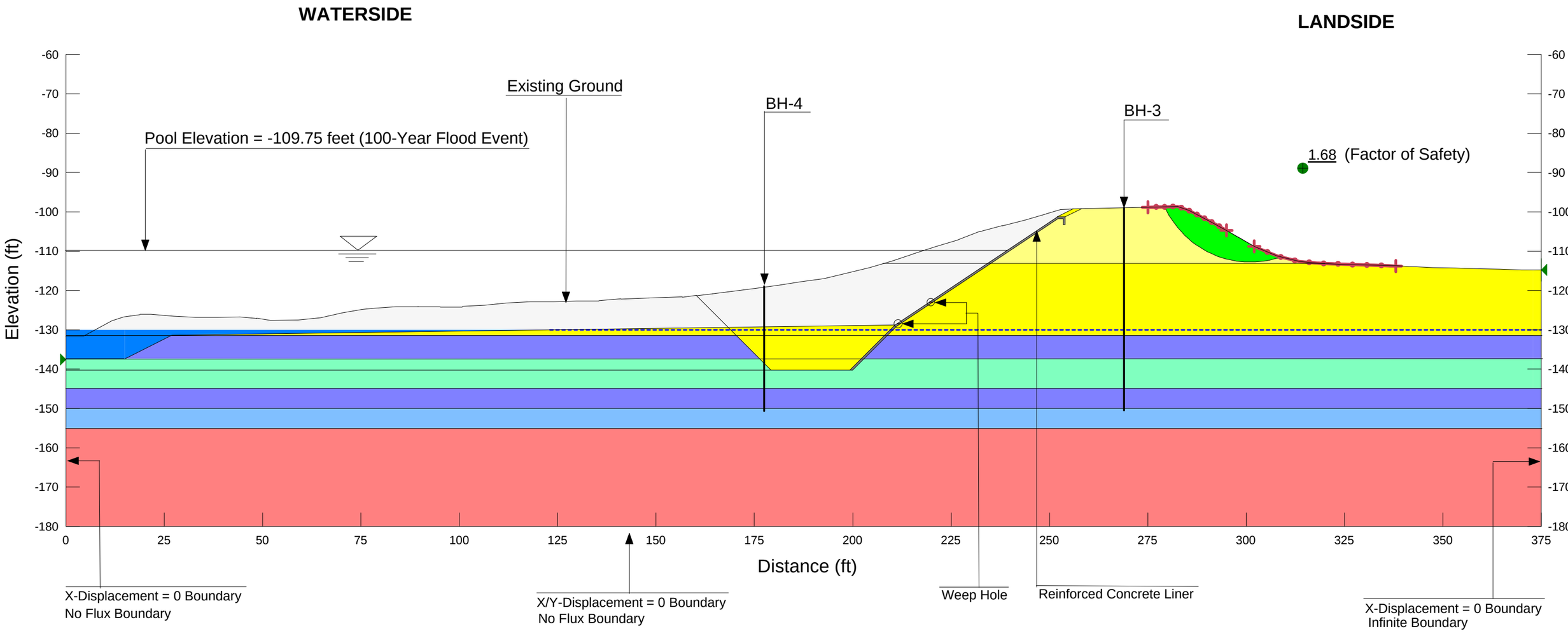
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-1.13

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(POST-EARTHQUAKE CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

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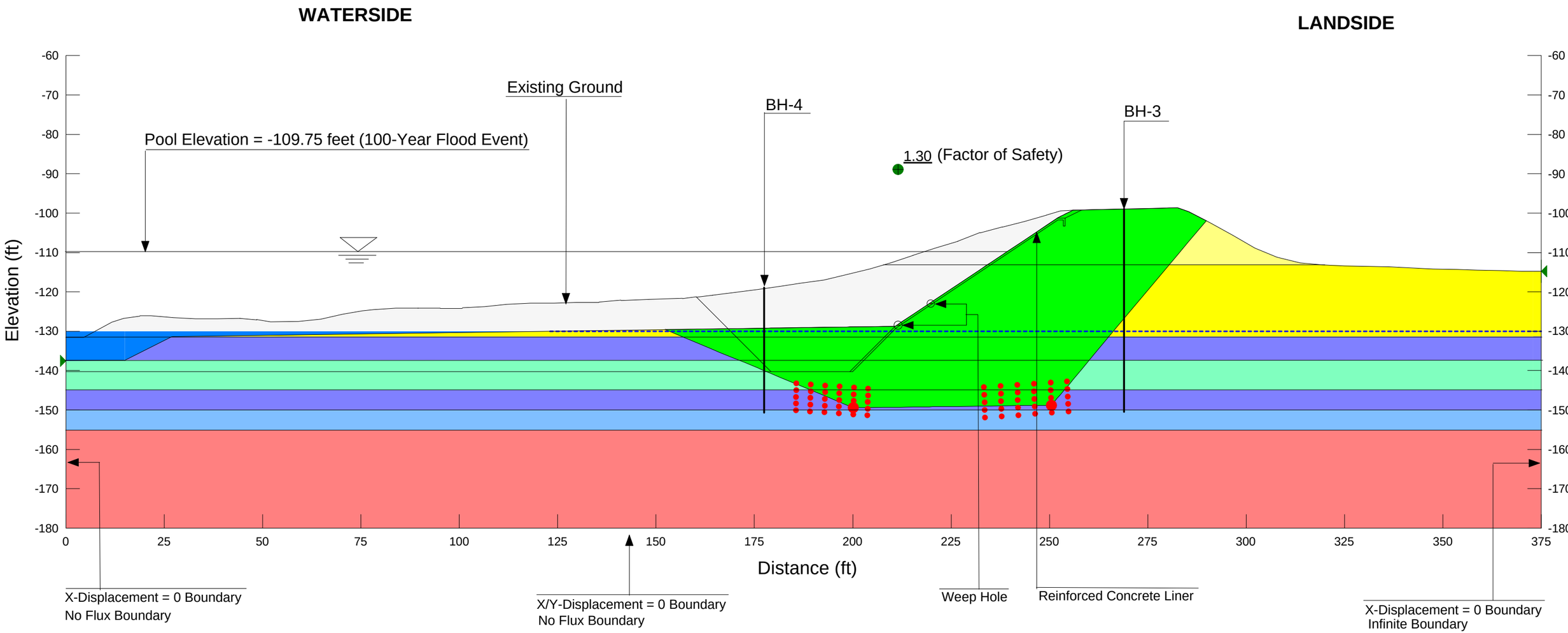
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-1.14

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(POST-EARTHQUAKE CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

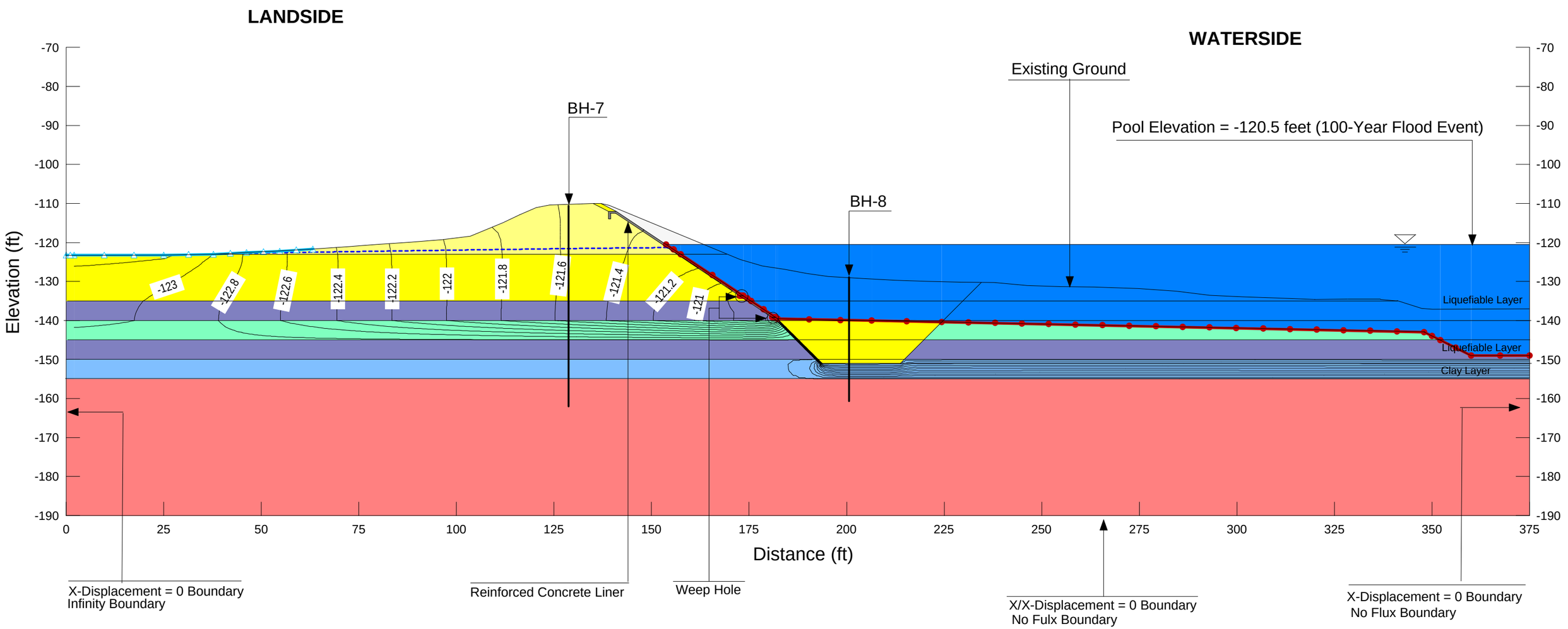
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ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-1.15

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF SEEPAGE ANALYSIS - 100-YEAR FLOOD EVENT

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

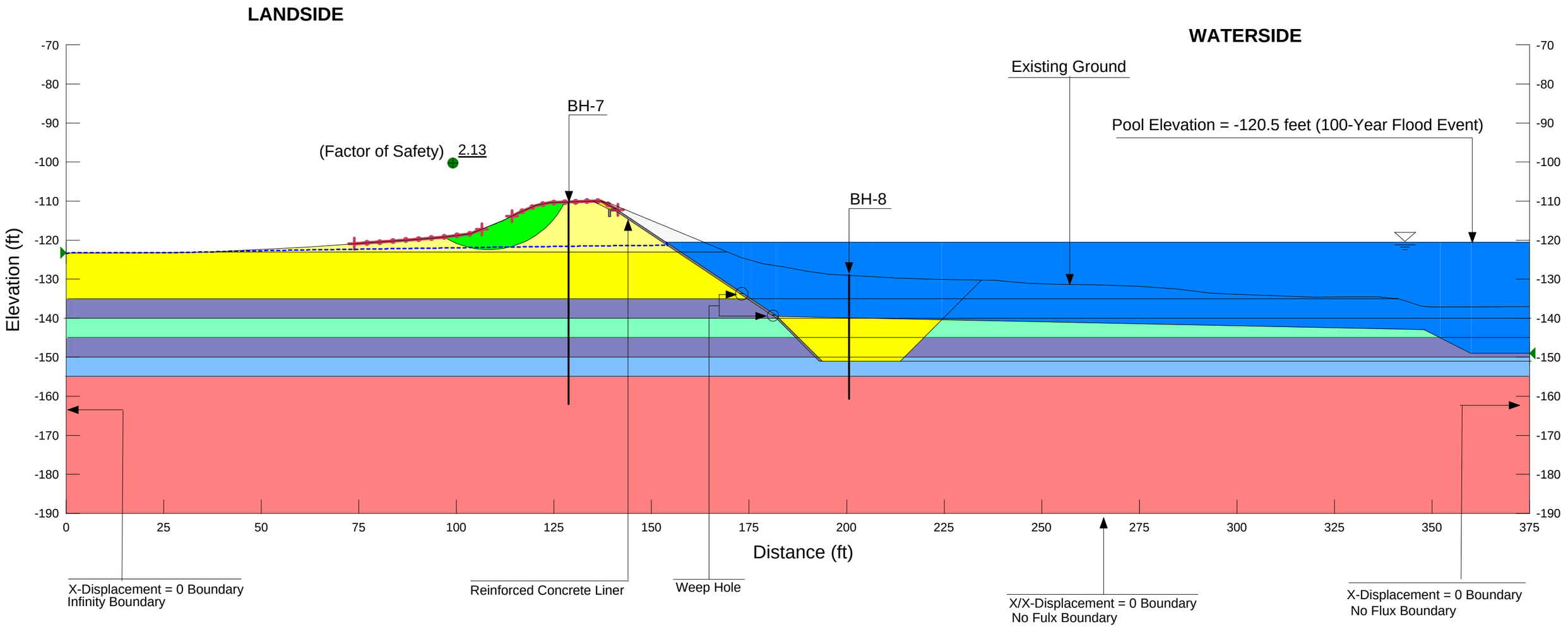
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-2.1

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(STATIC CONDITION, 100-YEAR FLOOD EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

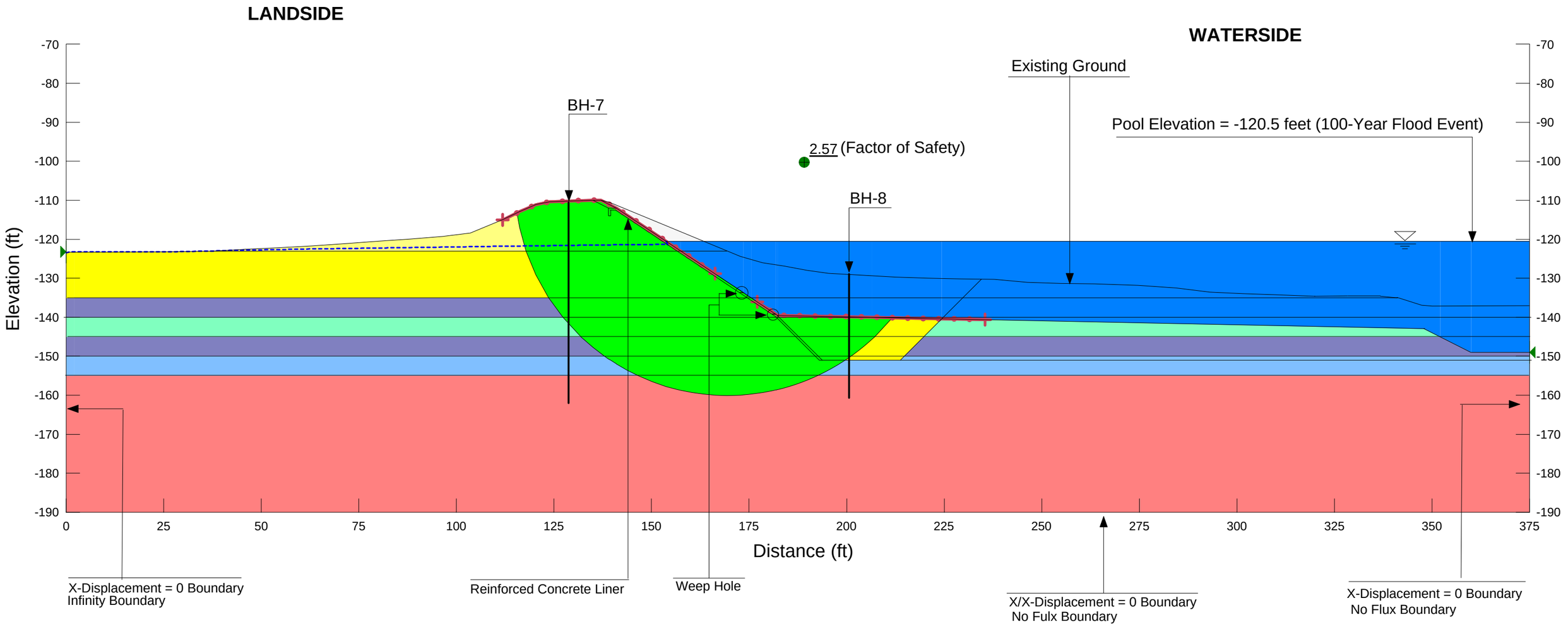
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-2.2

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(STATIC CONDITION, 100-YEAR FLOOD EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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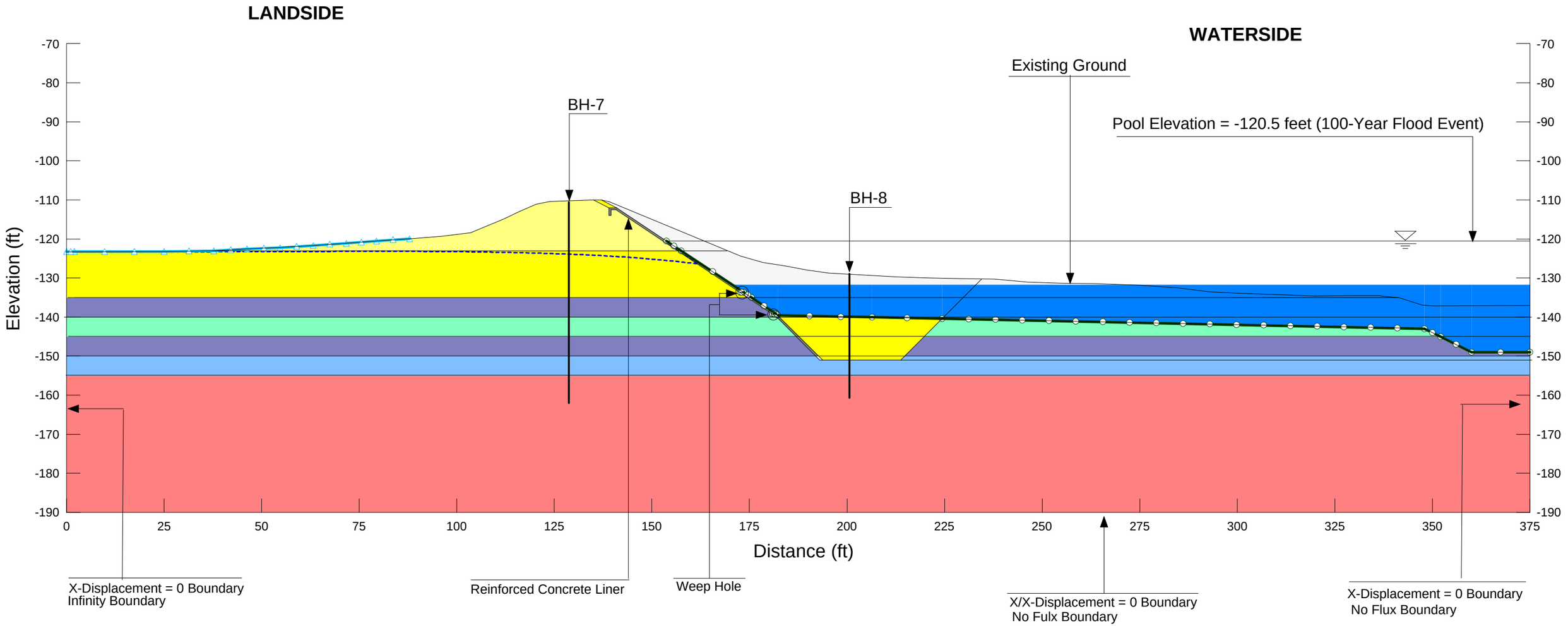
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-2.3

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF TRANSIENT SEEPAGE ANALYSIS

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(T = 4 h, 100-YEAR FLOOD EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

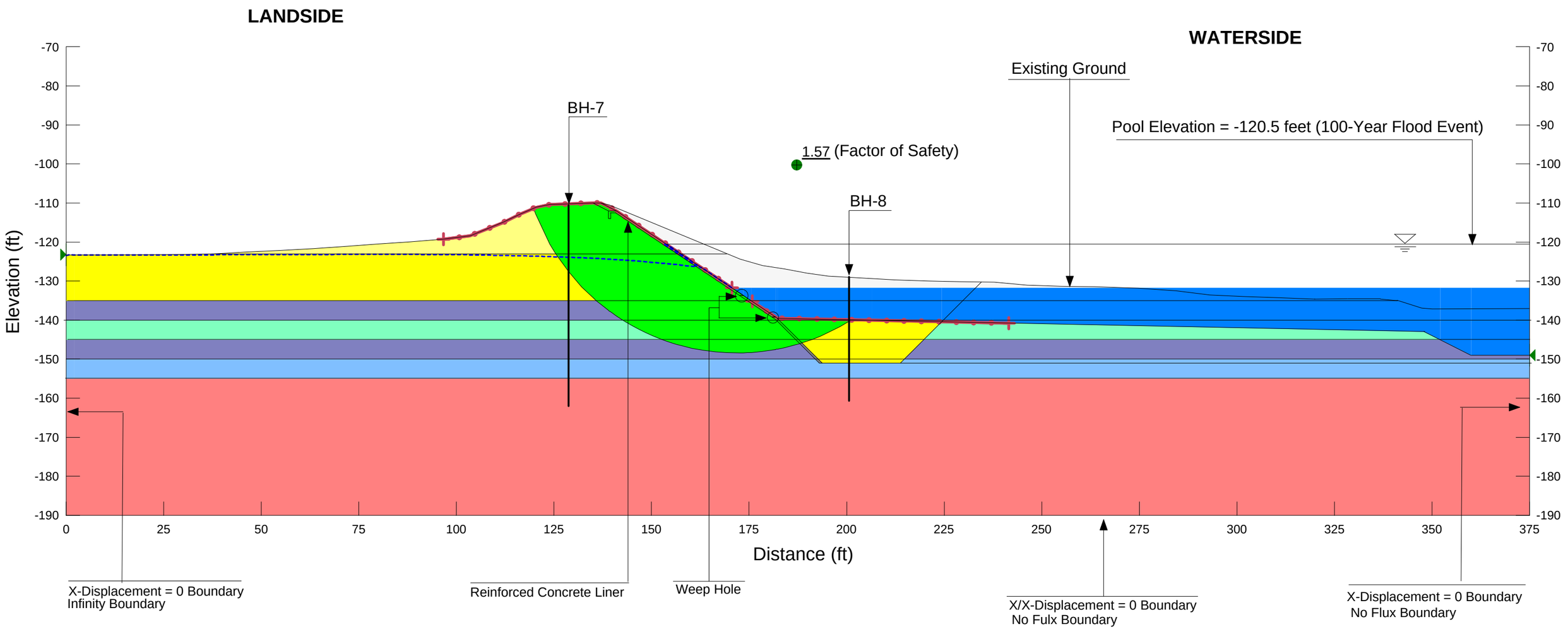
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-2.4

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(RAPID DRAWDOWN CONDITION, T = 4 h, 100-YEAR FLOOD EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

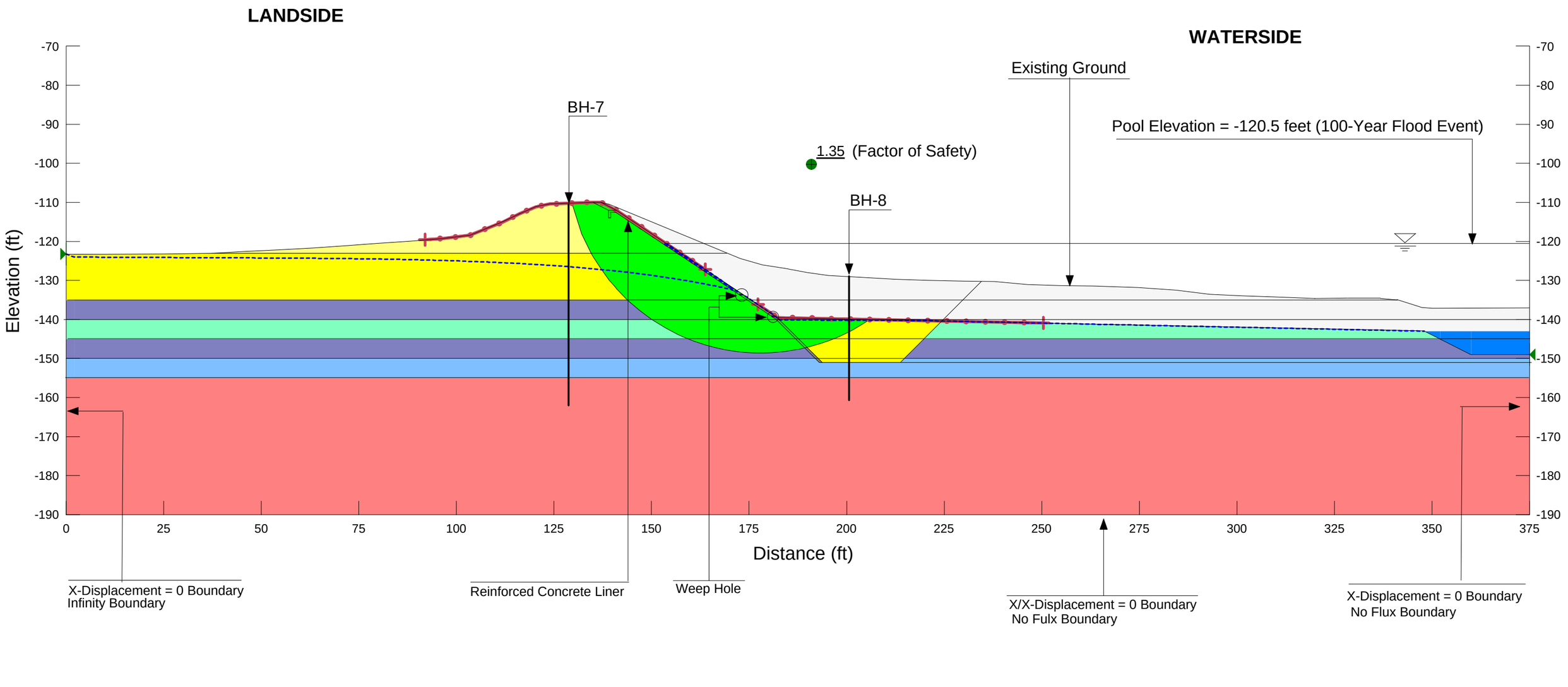
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-2.5

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(RAPID DRAWDOWN CONDITION, T = 8 h, 100-YEAR FLOOD EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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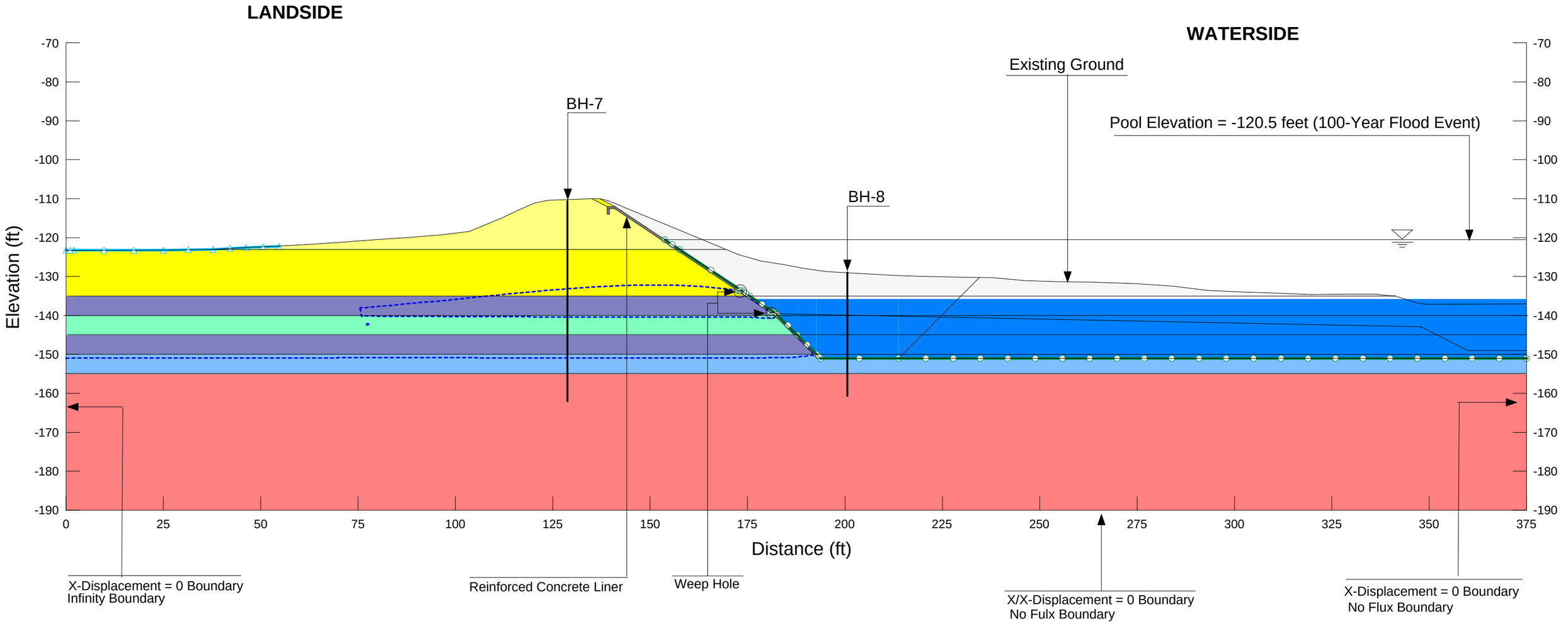
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-2.6

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF TRANSIENT SEEPAGE ANALYSIS

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(T = 4 h, 100-YEAR FLOOD EVENT, AFTER SCOUR)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

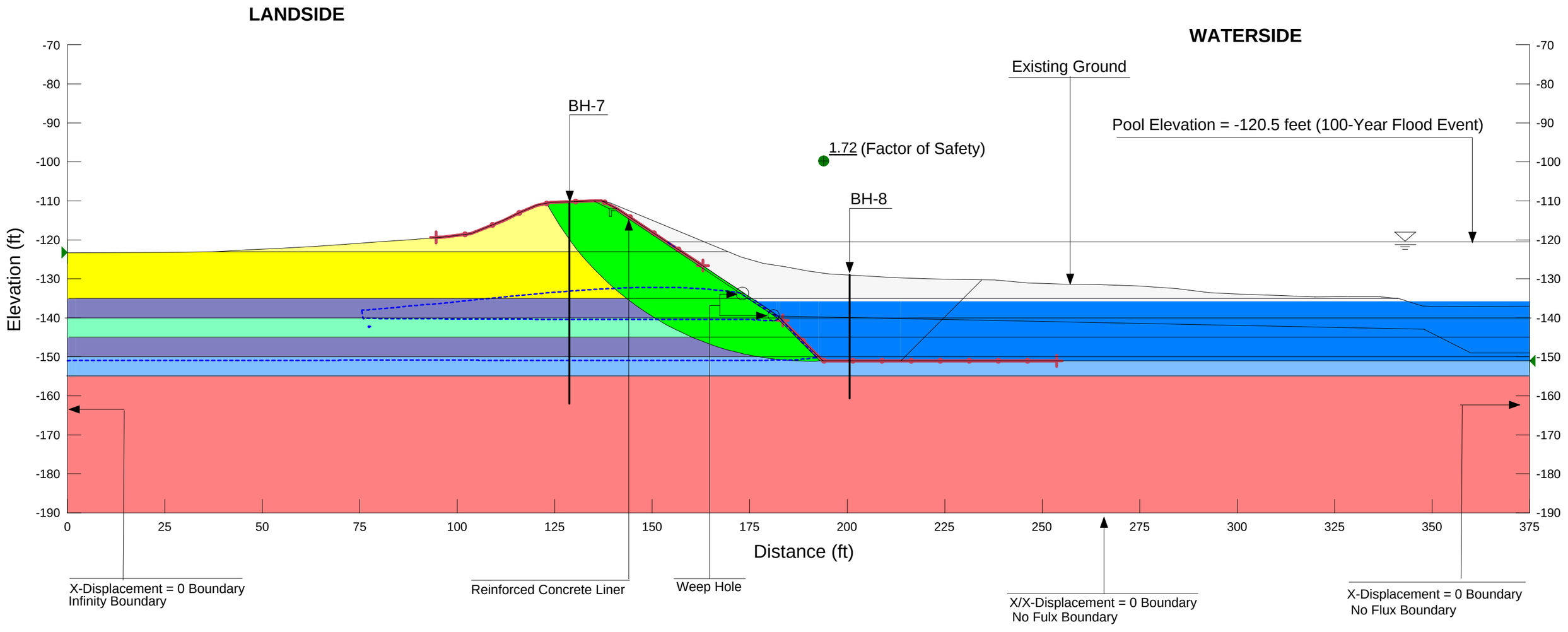
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-2.7

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(RAPID DRAWDOWN CONDITION, T = 4 h, 100-YEAR FLOOD EVENT, AFTER SCOUR)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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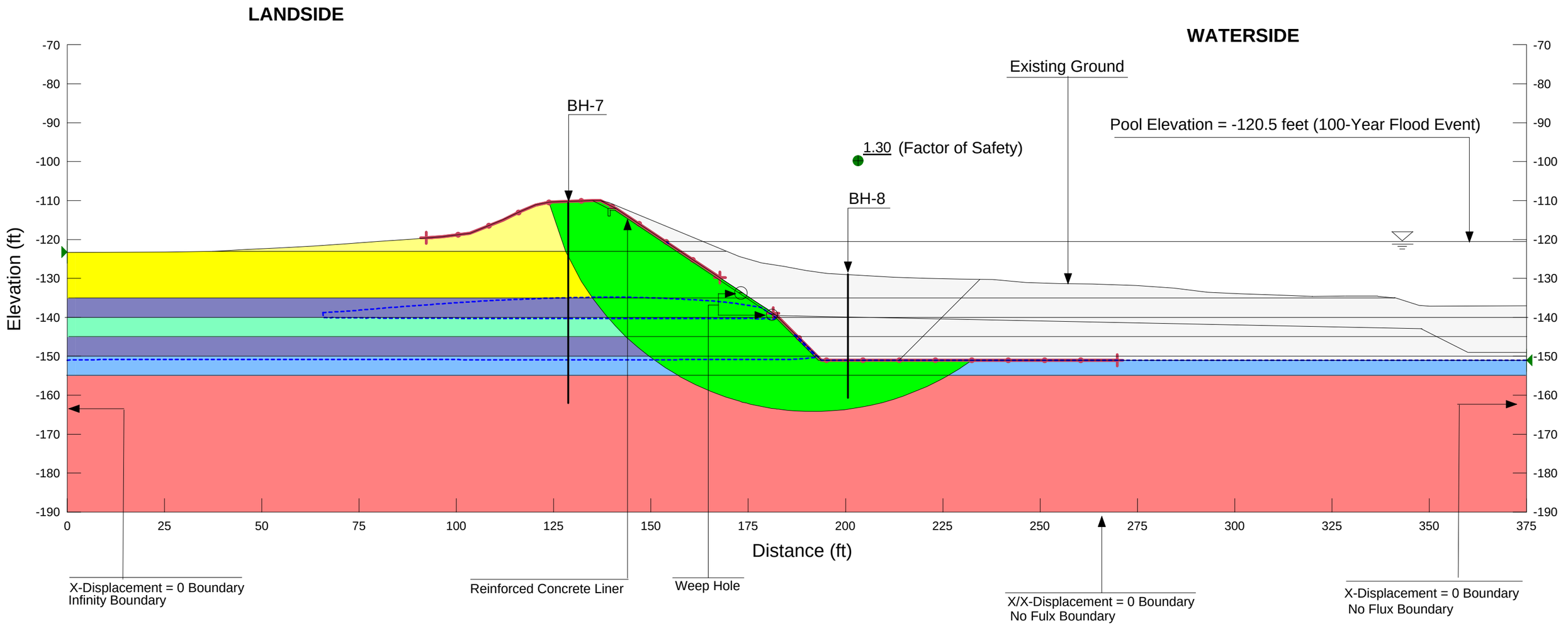
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-2.8

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(RAPID DRAWDOWN CONDITION, T = 8 h, 100-YEAR FLOOD EVENT, AFTER SCOUR)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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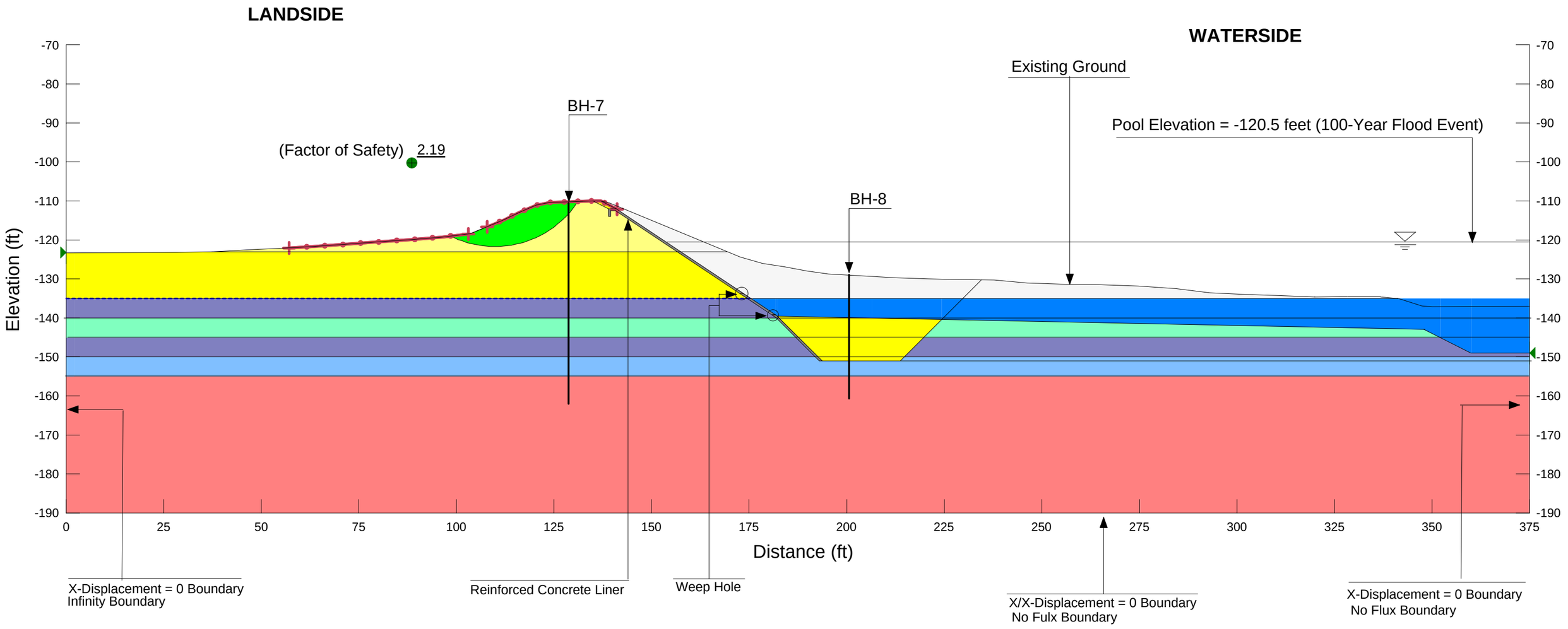
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-2.9

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(STATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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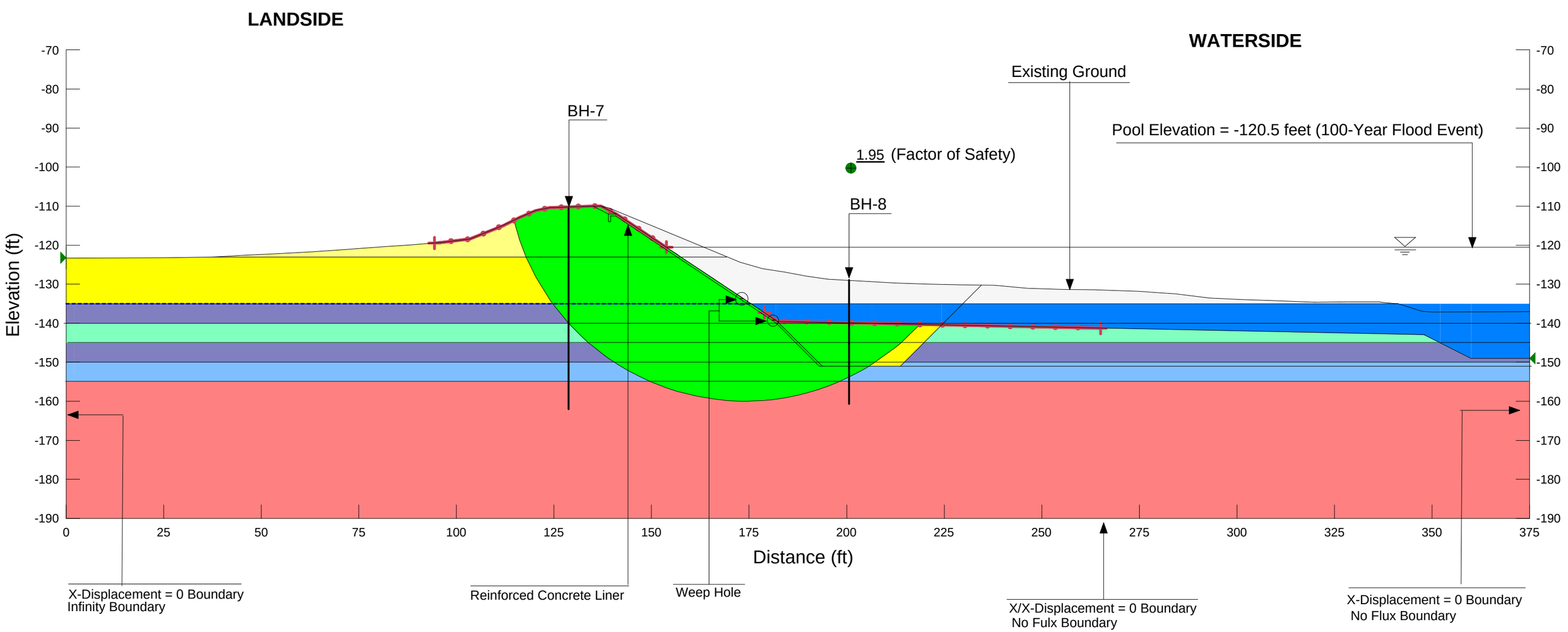
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-2.10

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(STATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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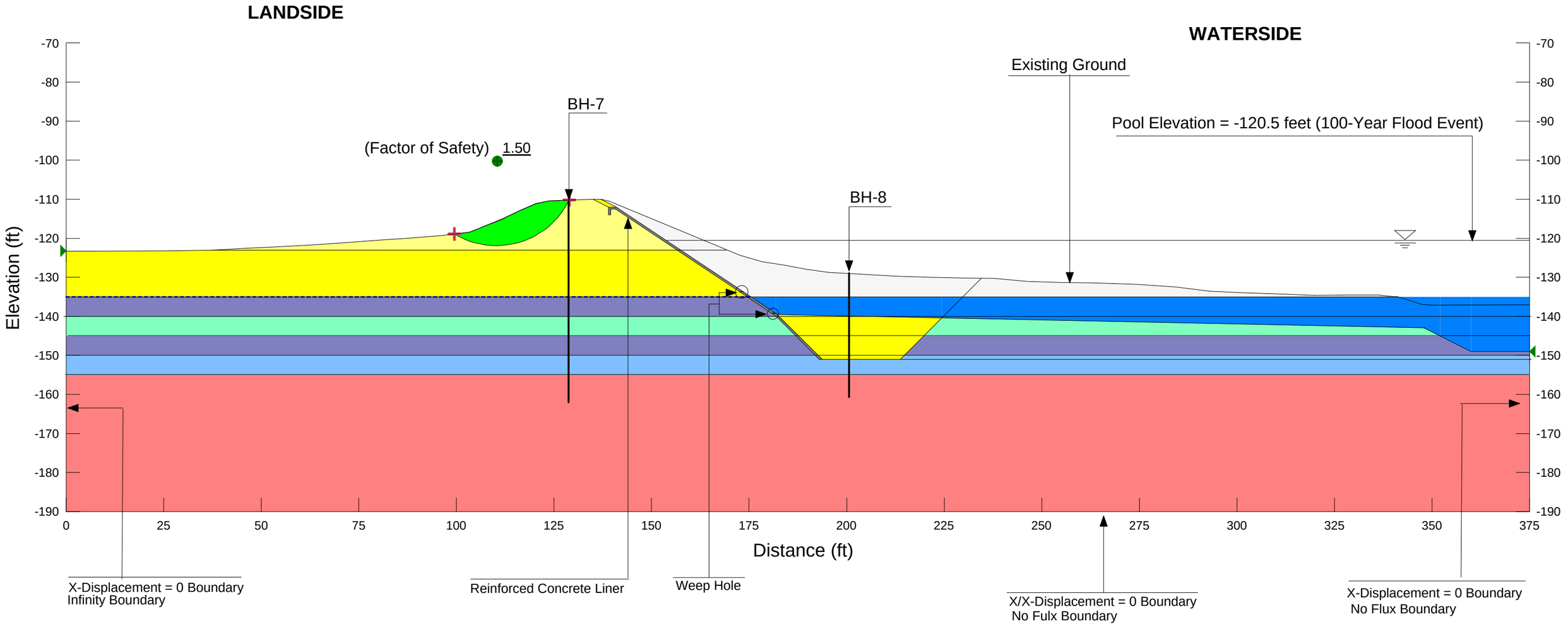
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-2.11

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(PSEUDOSTATIC CONDITION, REGULAR CHANNEL CONCDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

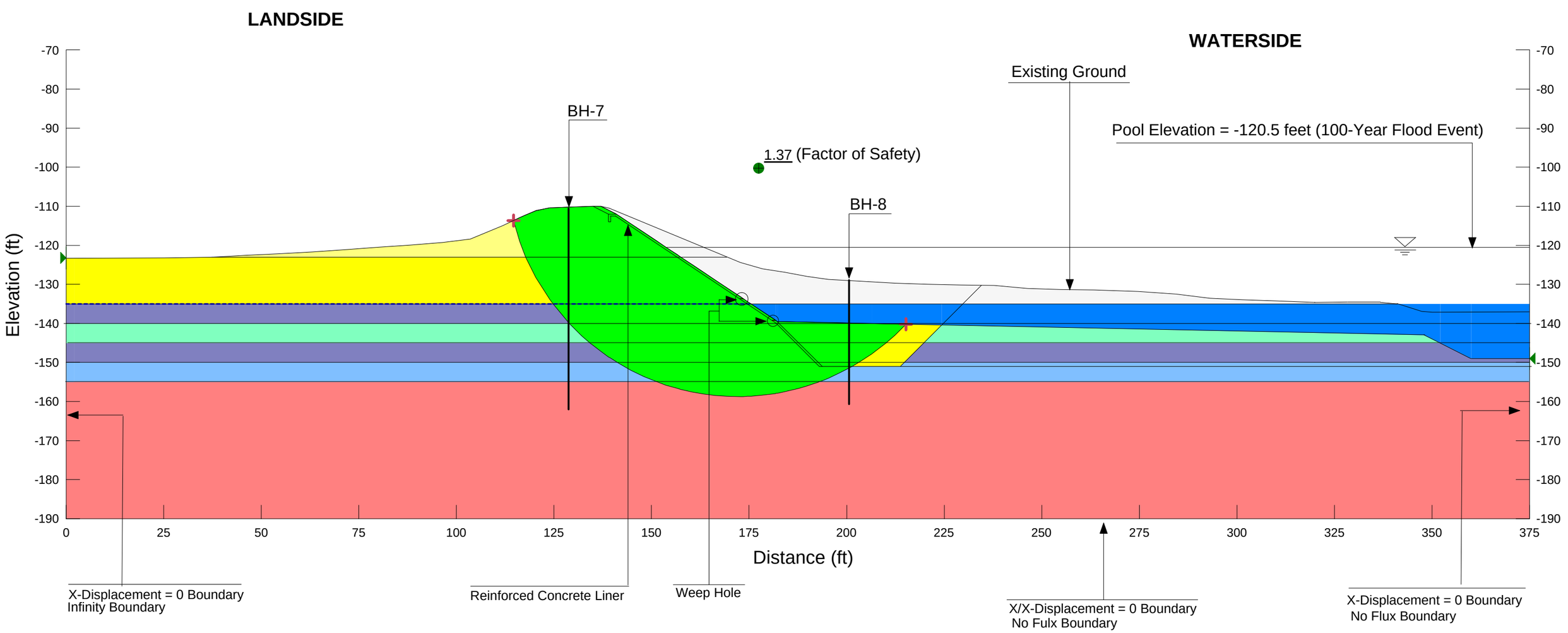
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-2.12

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(PSEUDOSTATIC CONDITION, REGULAR CHANNEL CONCDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

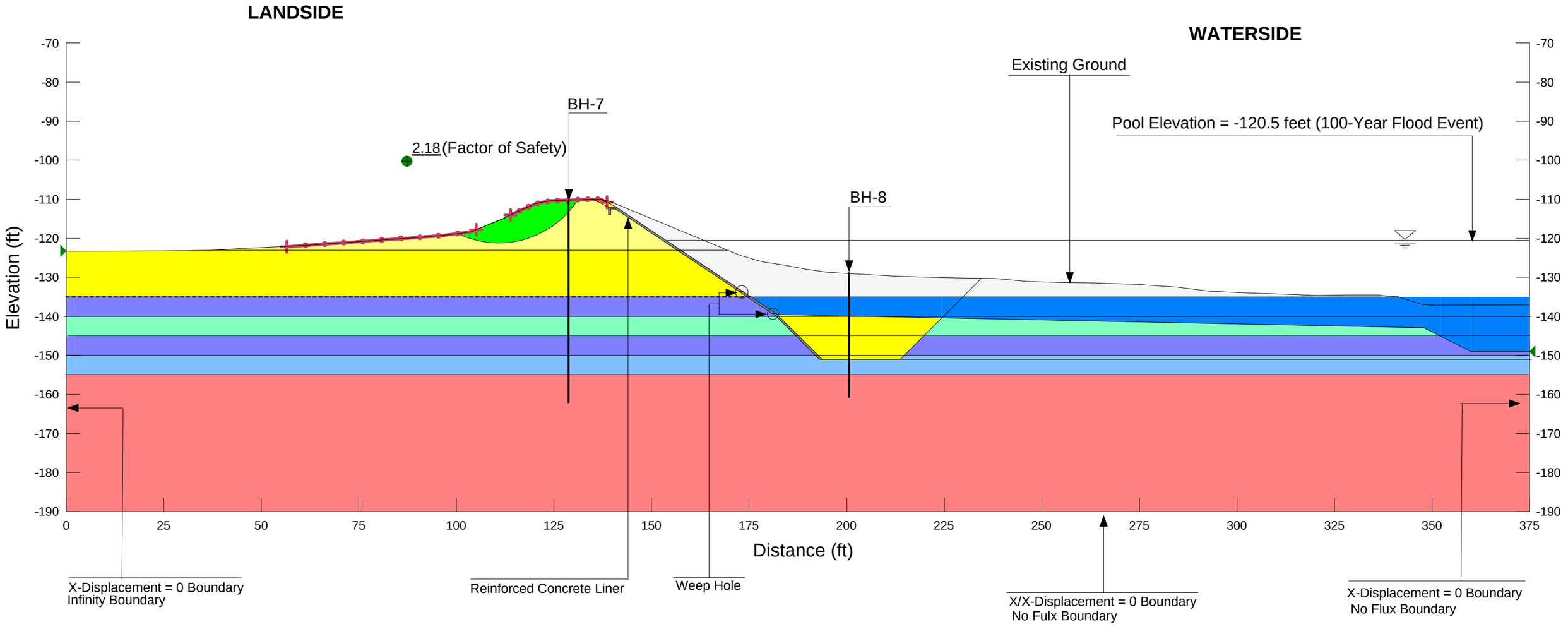
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-2.13

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(POST-EARTHQUAKE CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

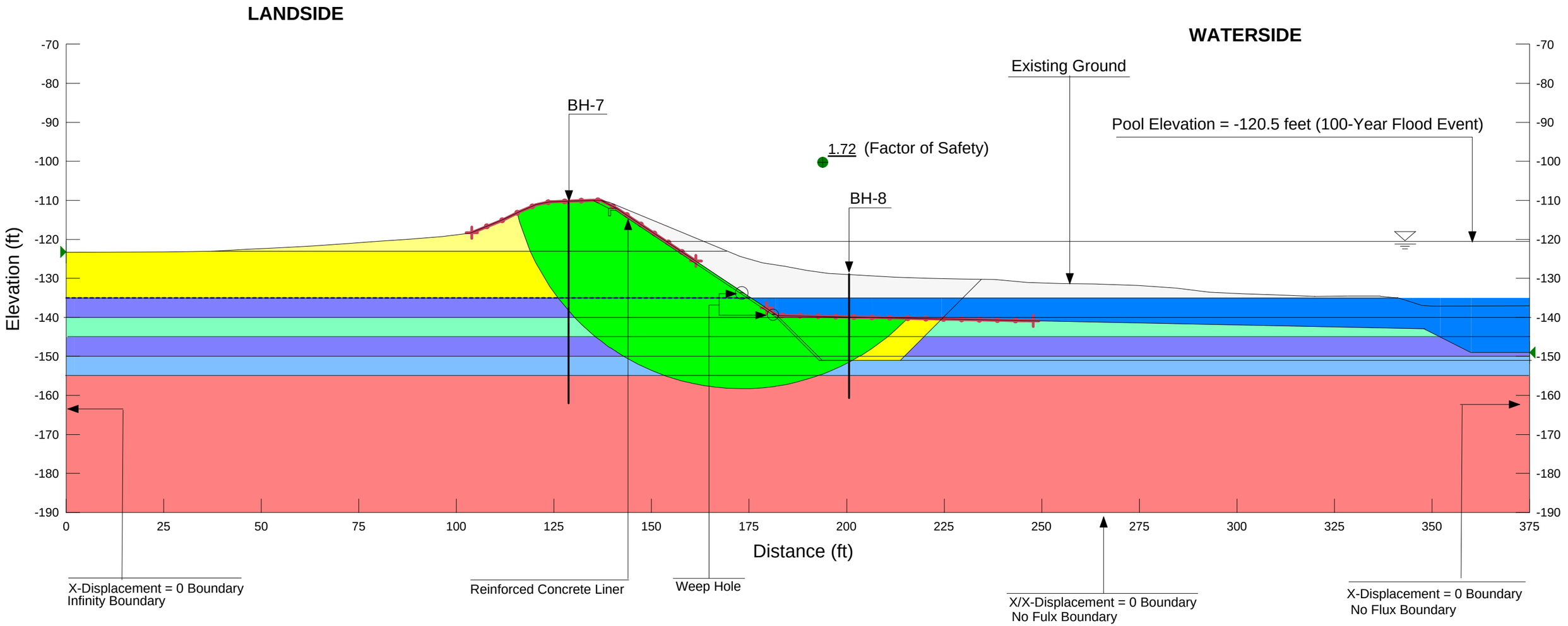
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-2.14

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(POST-EARTHQUAKE CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

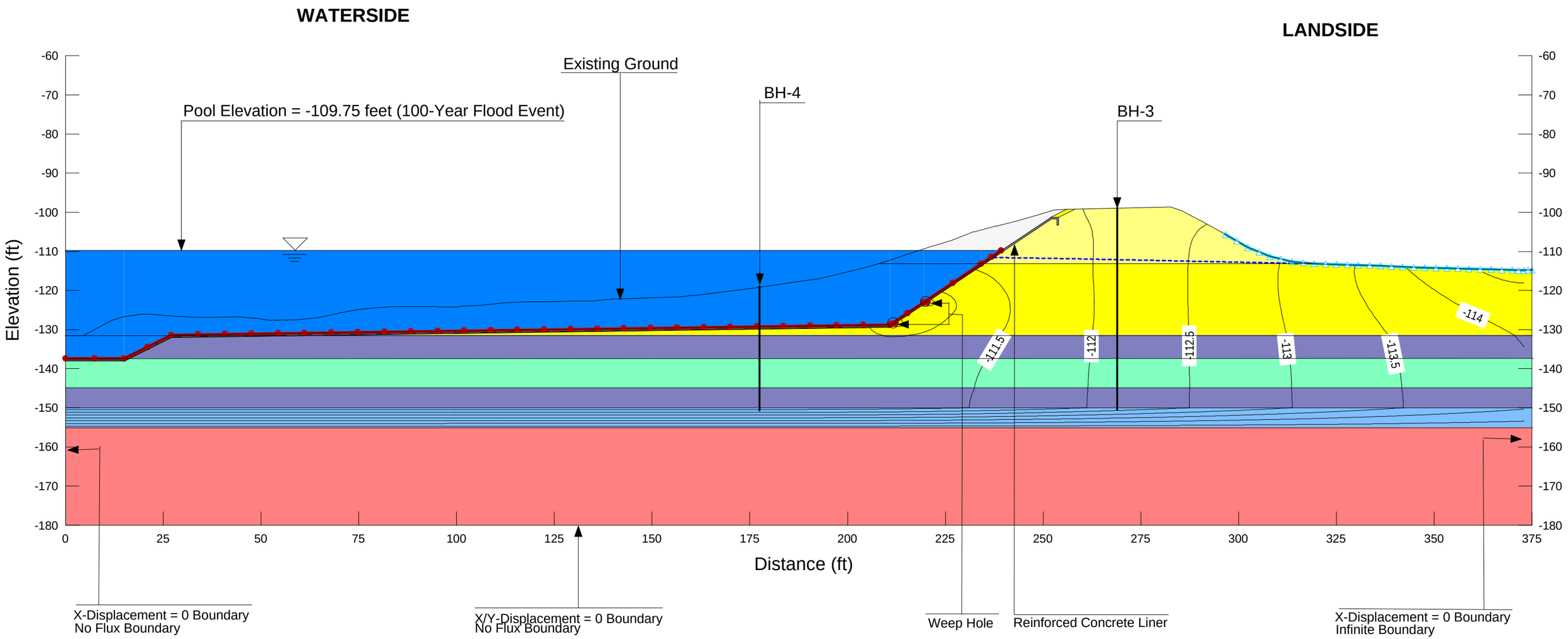
GENTERRA CONSULTANTS, INC.
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PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-2.15

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF SEEPAGE ANALYSIS - 100-YEAR FLOOD EVENT

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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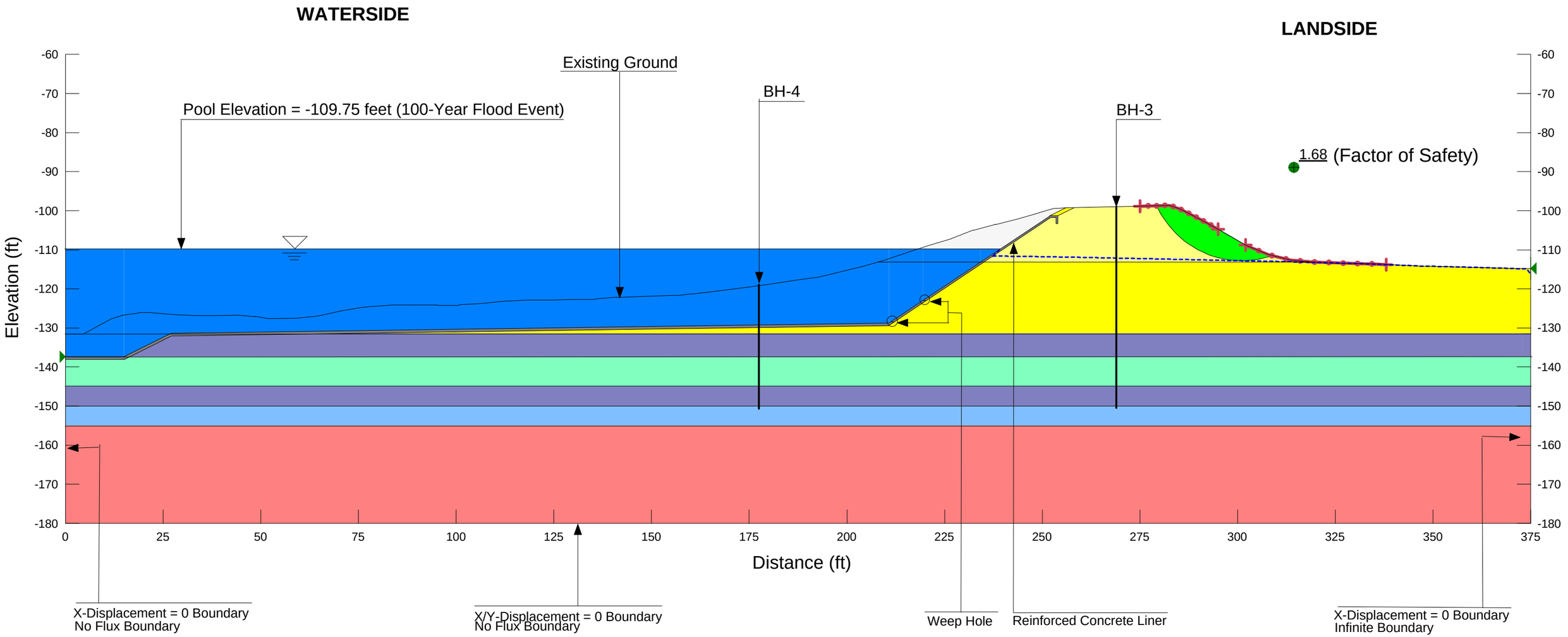
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-3.1

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(STATIC CONDITION, 100-YER FLOOD EVENT)



SCALE: 1" = 25'

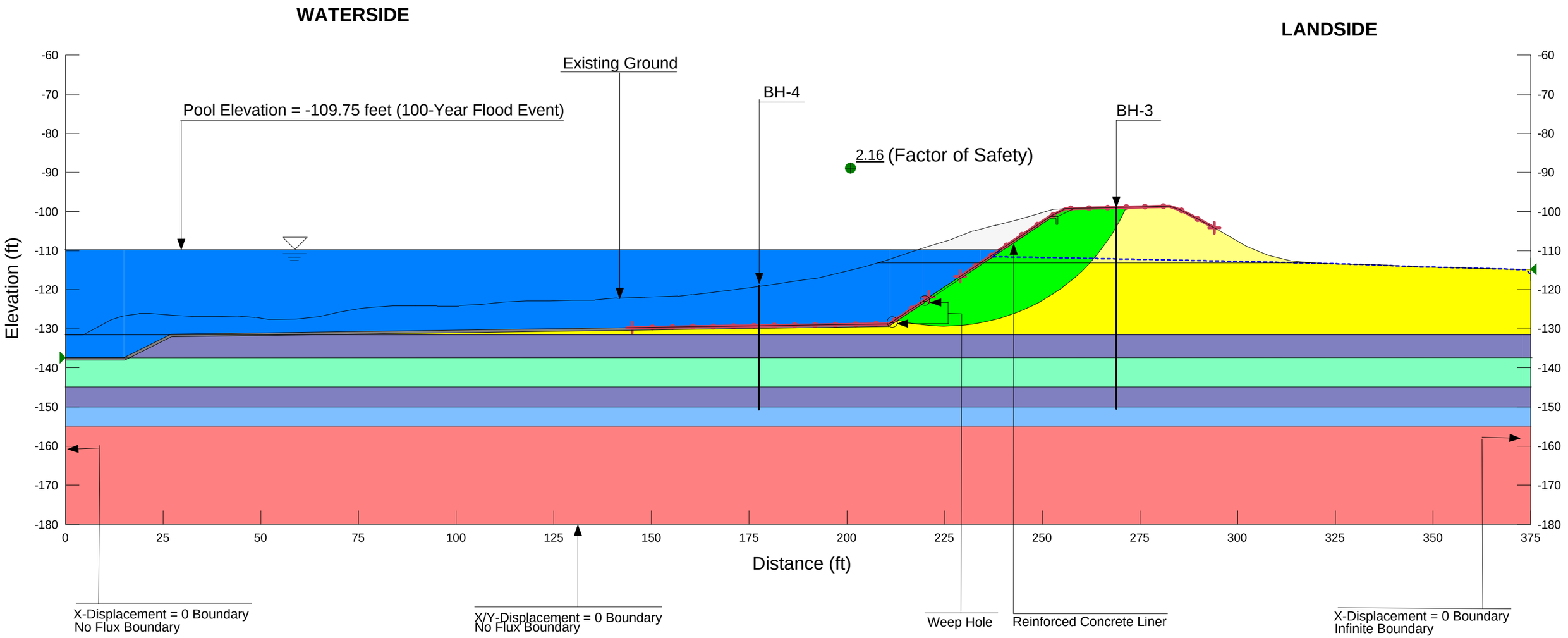
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PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-3.2

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

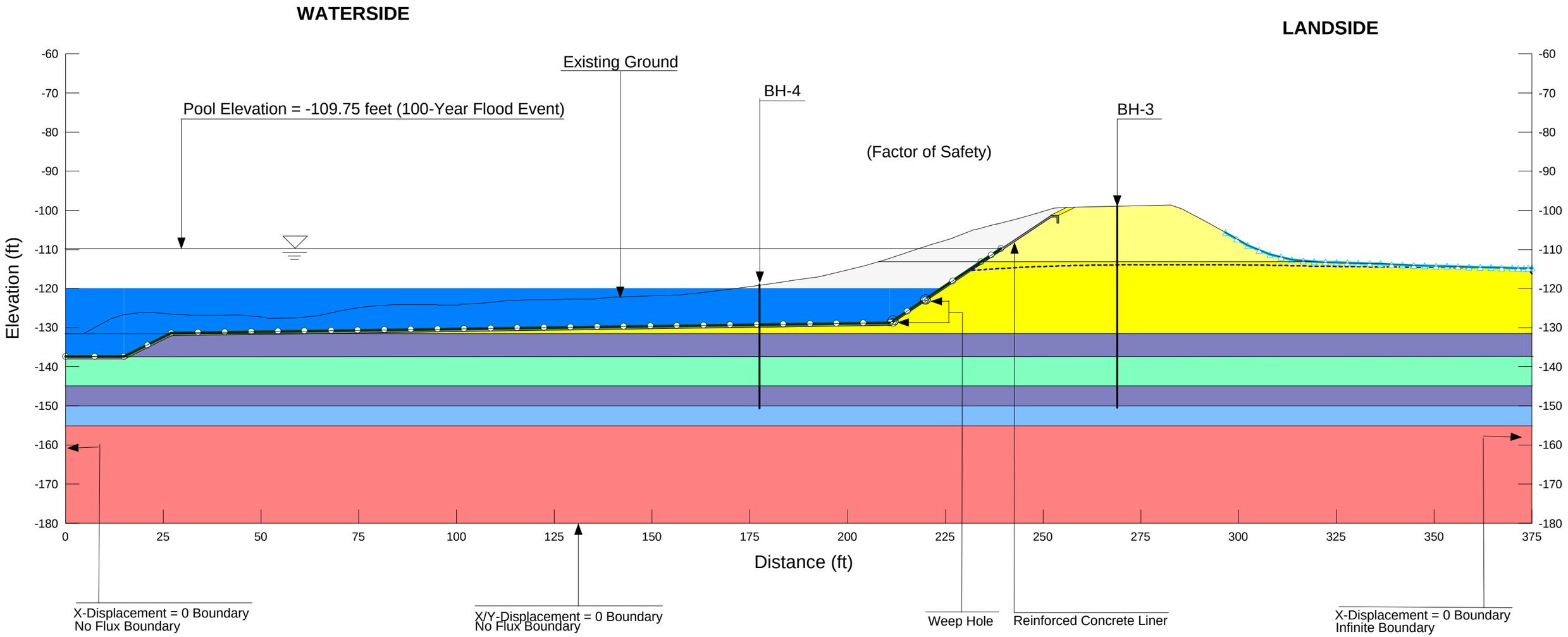
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-3.3

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(RAPID DRAWDOWN CONDITION, T = 4 h, 100-YEAR FLOOD EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

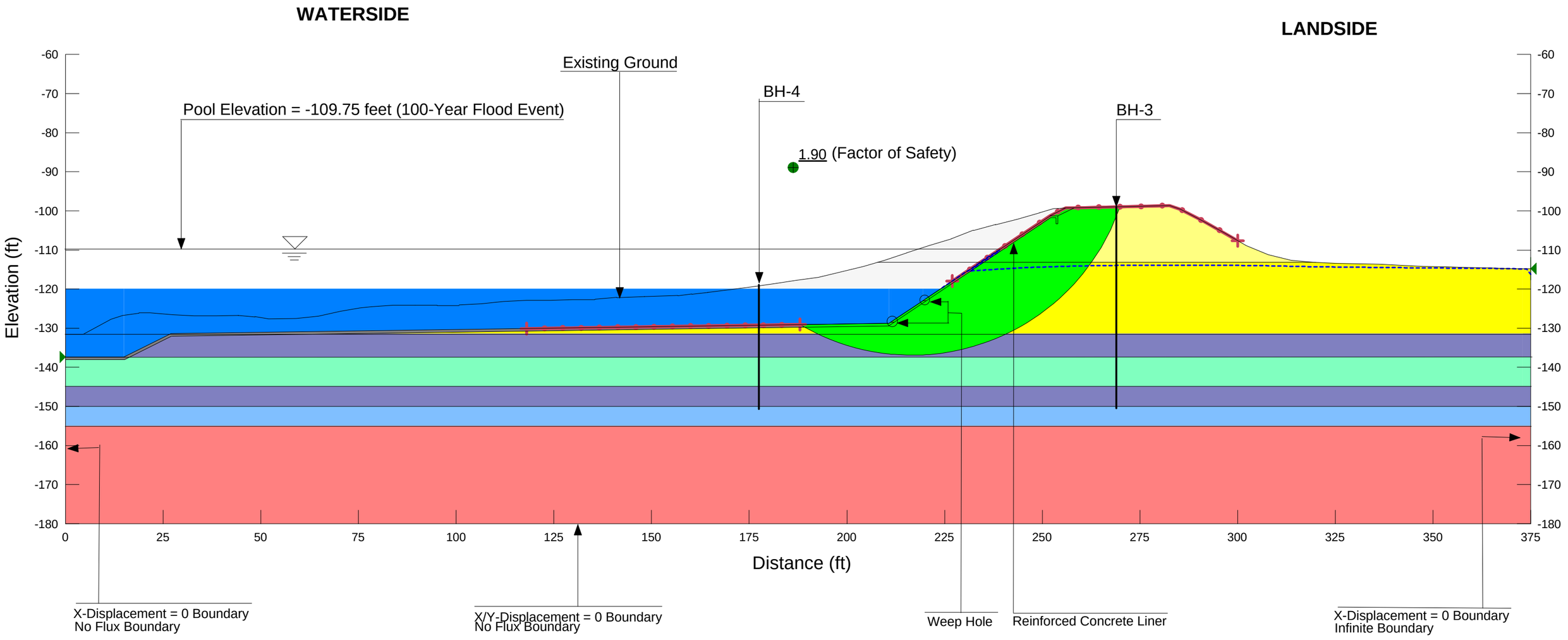
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-3.4

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(RAPID DRAWDOWN CONDITION, T = 4 h, 100-YEAR FLOOD EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

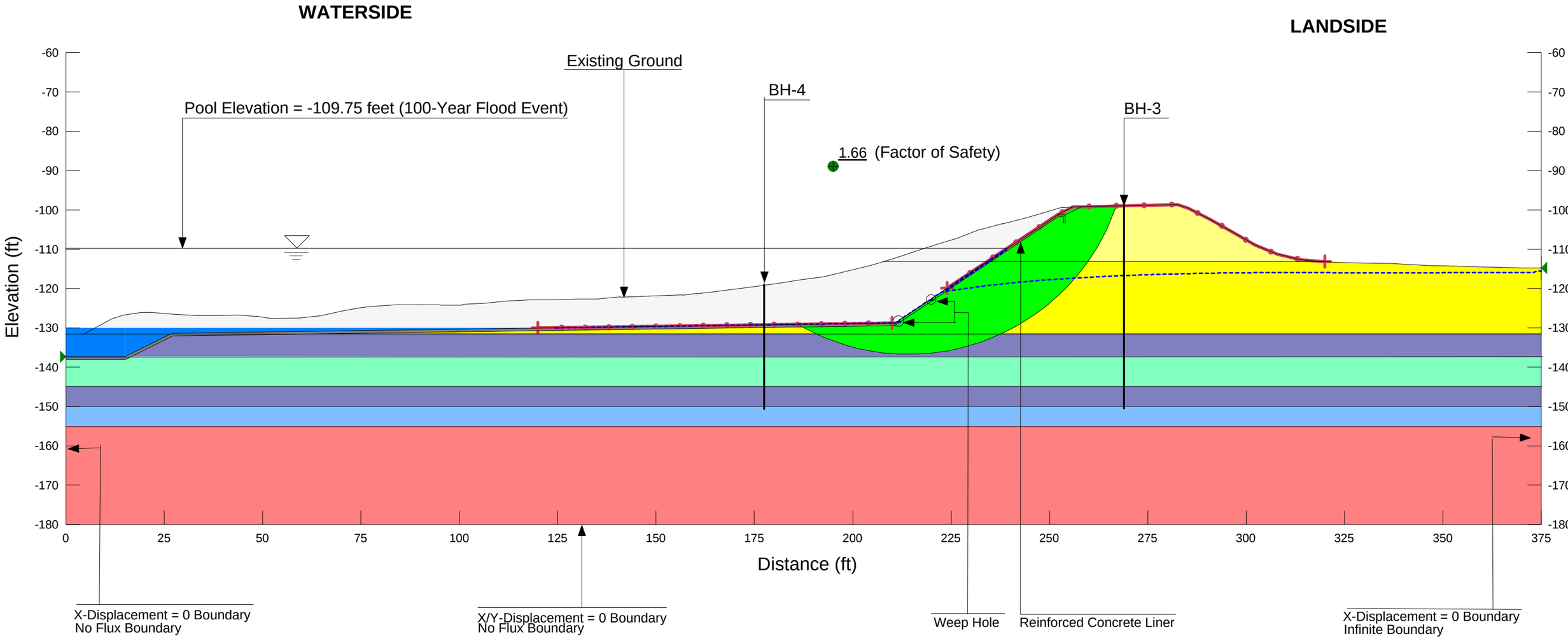
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-3.5

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(RAPID DRAWDOWN CONDITION, T = 4 h, 100-YEAR FLOOD EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

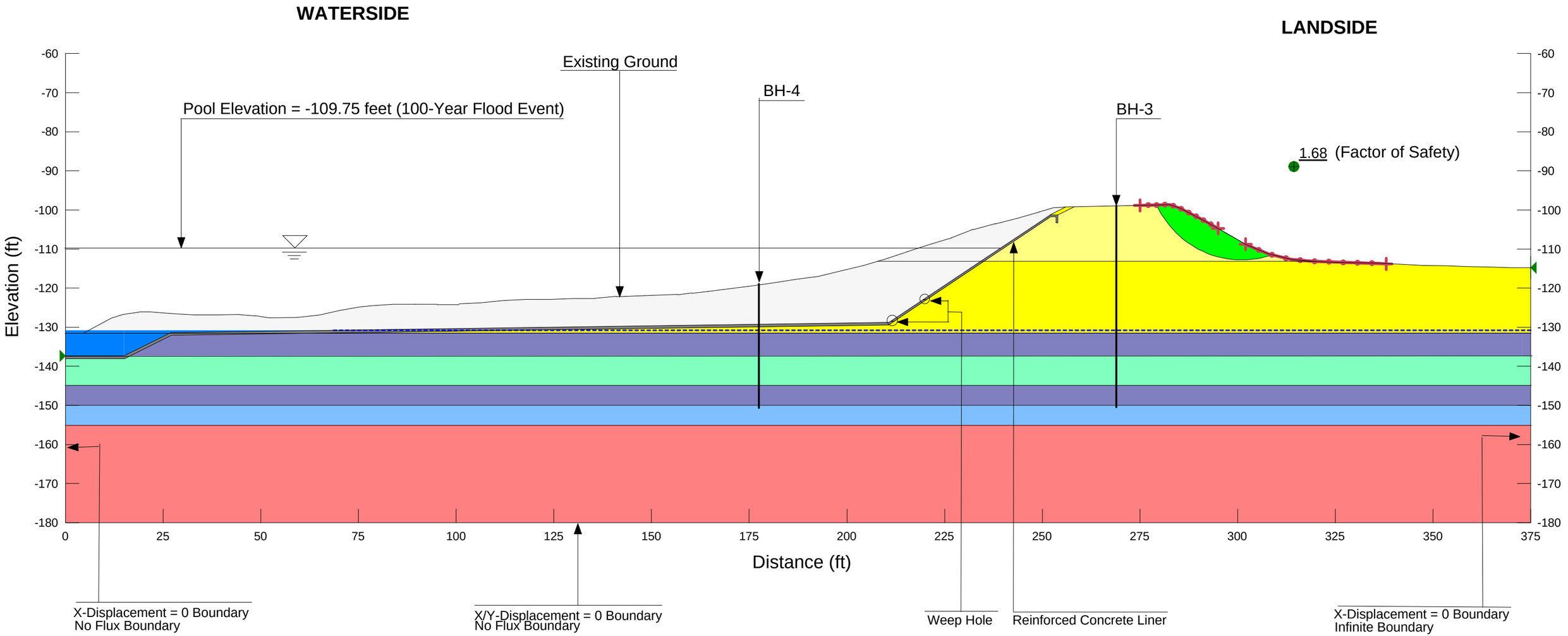
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-3.6

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(STATIC CONDITION, EMPETY CHANNEL)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

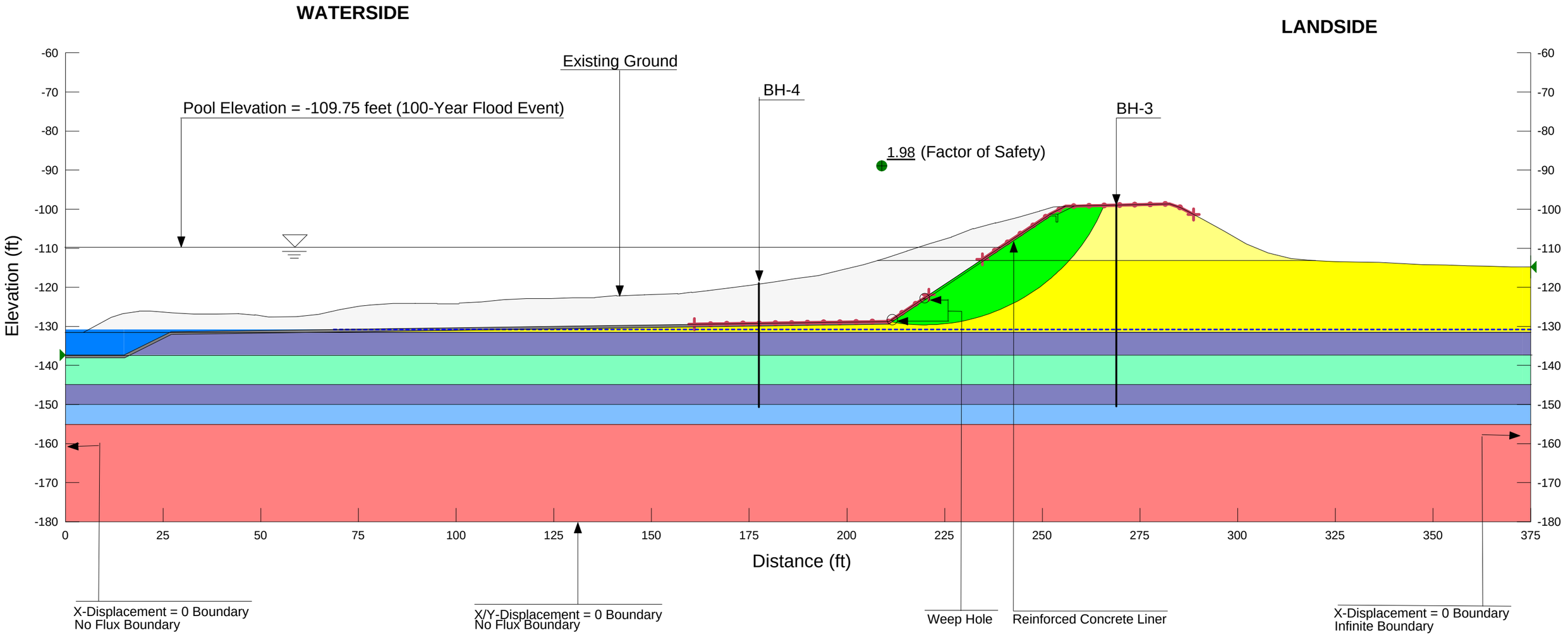
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-3.7

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(STATIC CONDITION, EMPETY CHANNEL)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

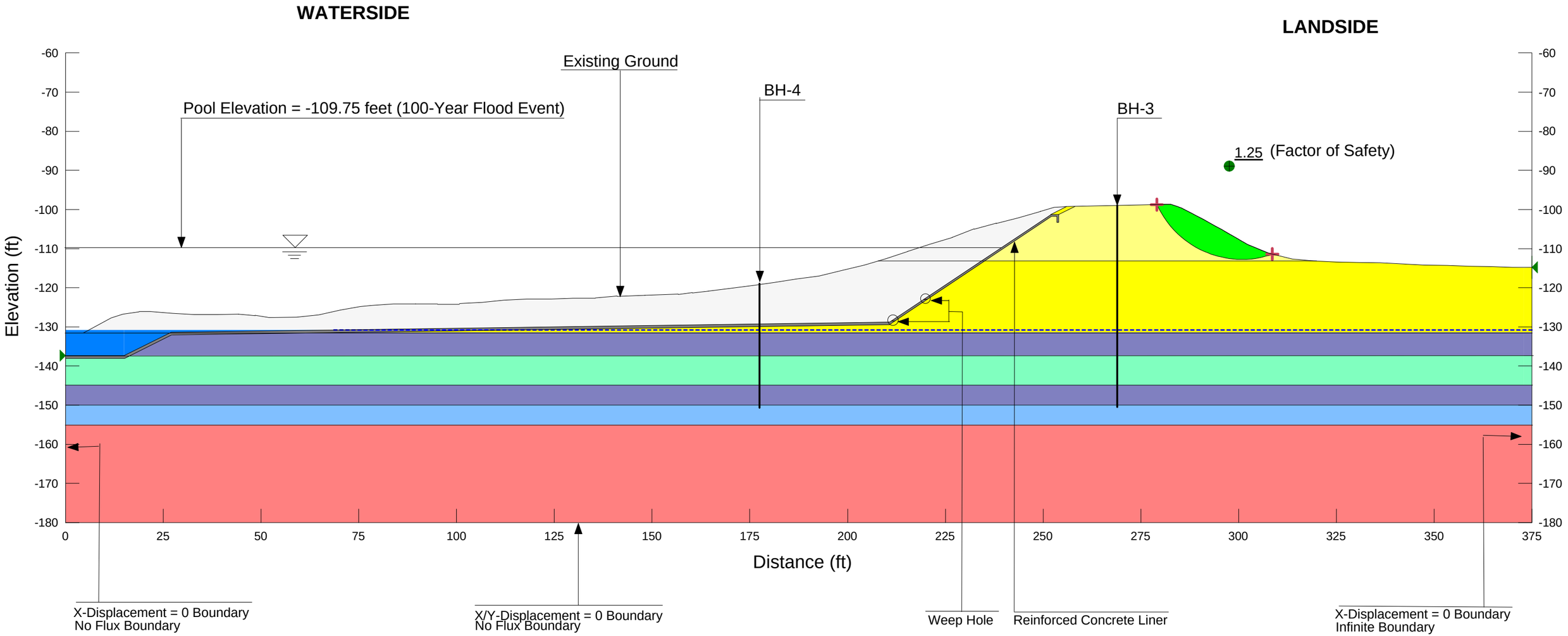
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-3.8

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(PSEUDOSTATIC CONDITION, EMPETY CHANNEL)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

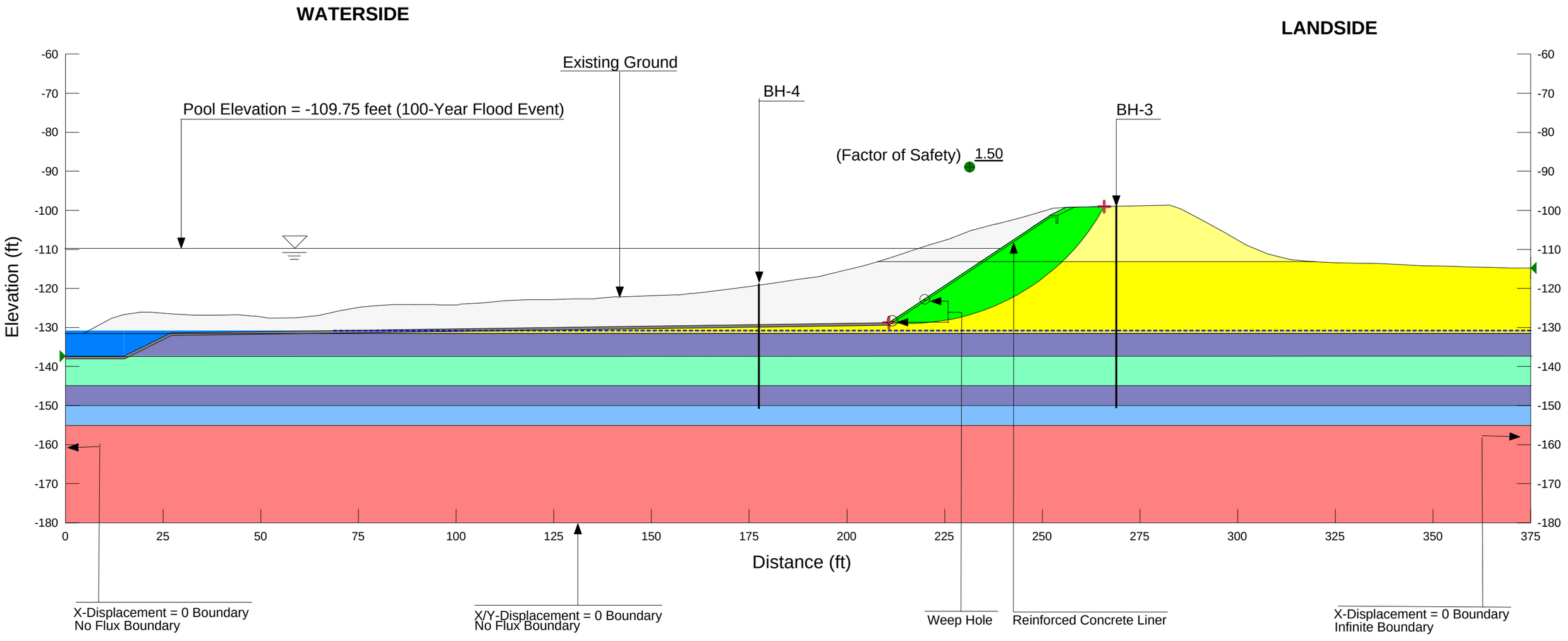
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-3.9

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(PSEUDOSTATIC CONDITION, EMPETY CHANNEL)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

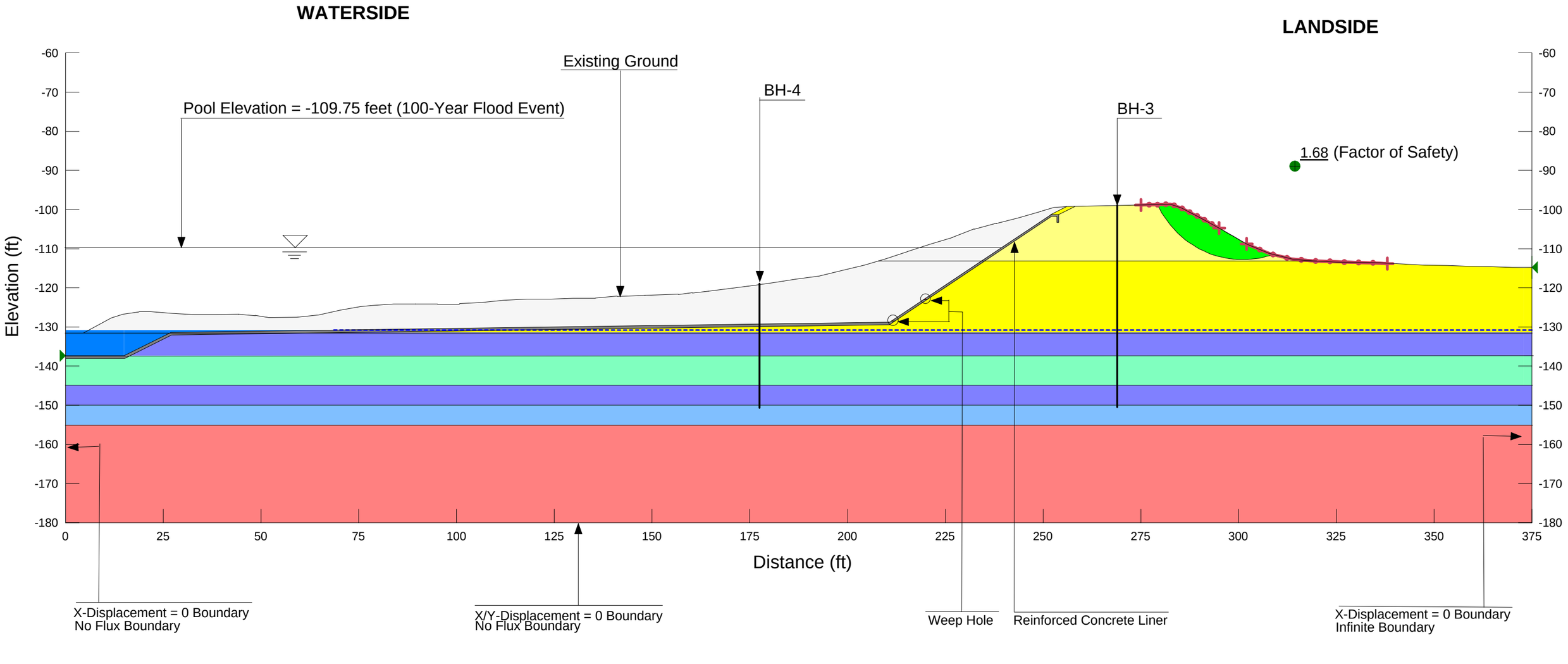
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-3.10

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(POST-EARTHQUAKE CONDITION, EMPETY CHANNEL)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

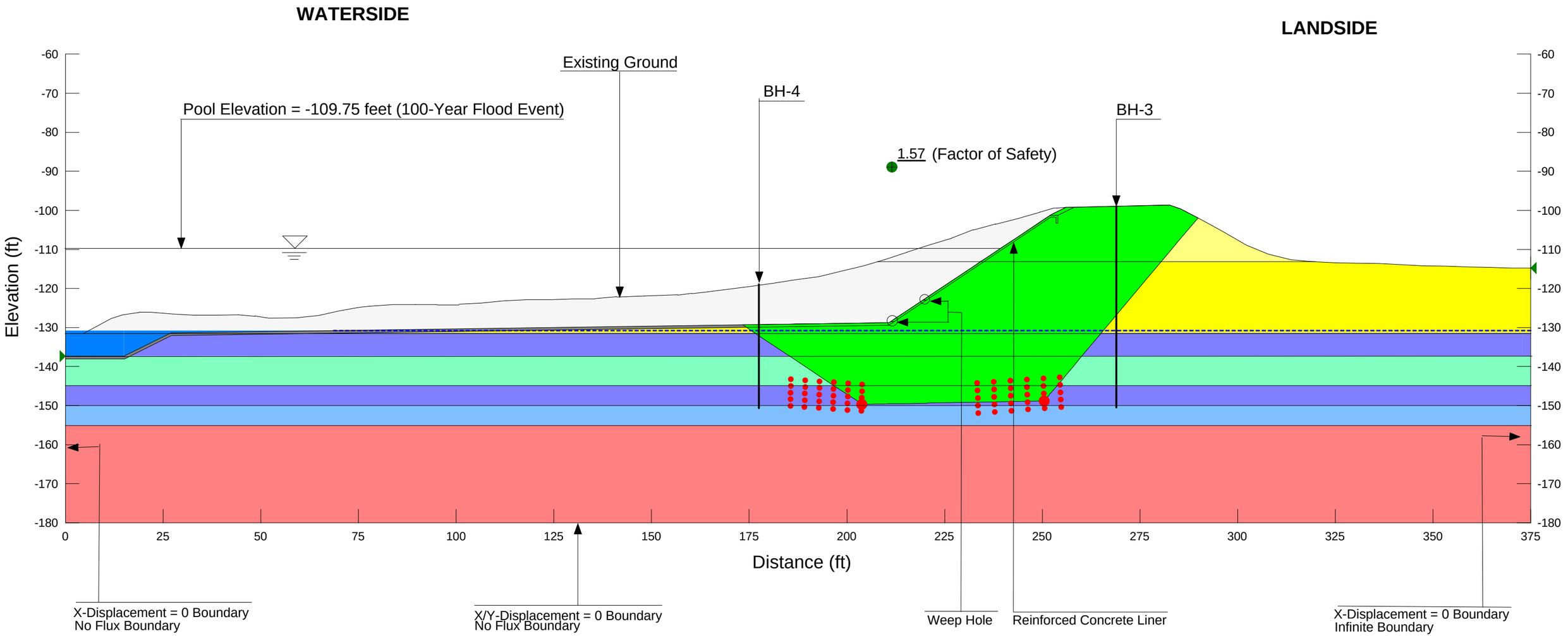
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-3.11

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(POST-EARTHQUAKE CONDITION, EMPCHANNEL)



SCALE: 1" = 25'

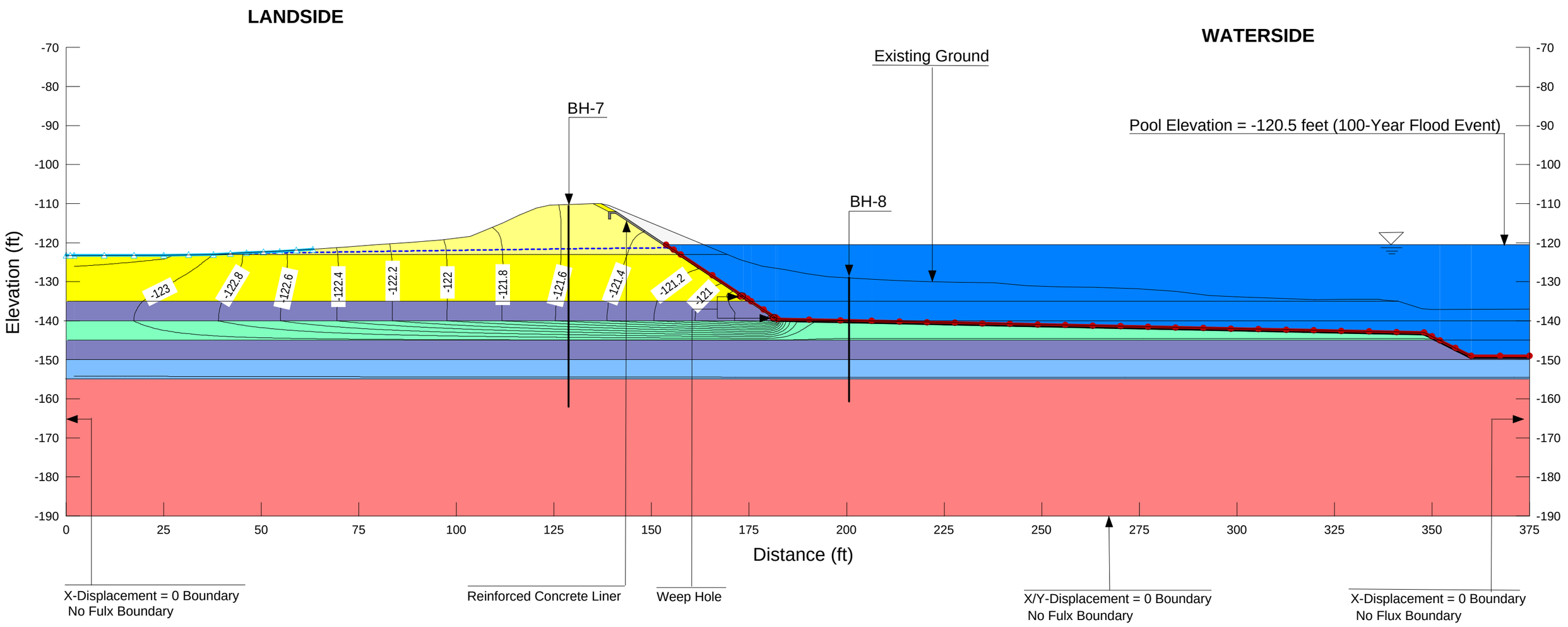
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PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-3.12

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF SEEPAGE ANALYSIS - 100-YEAR FLOOD EVENT

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

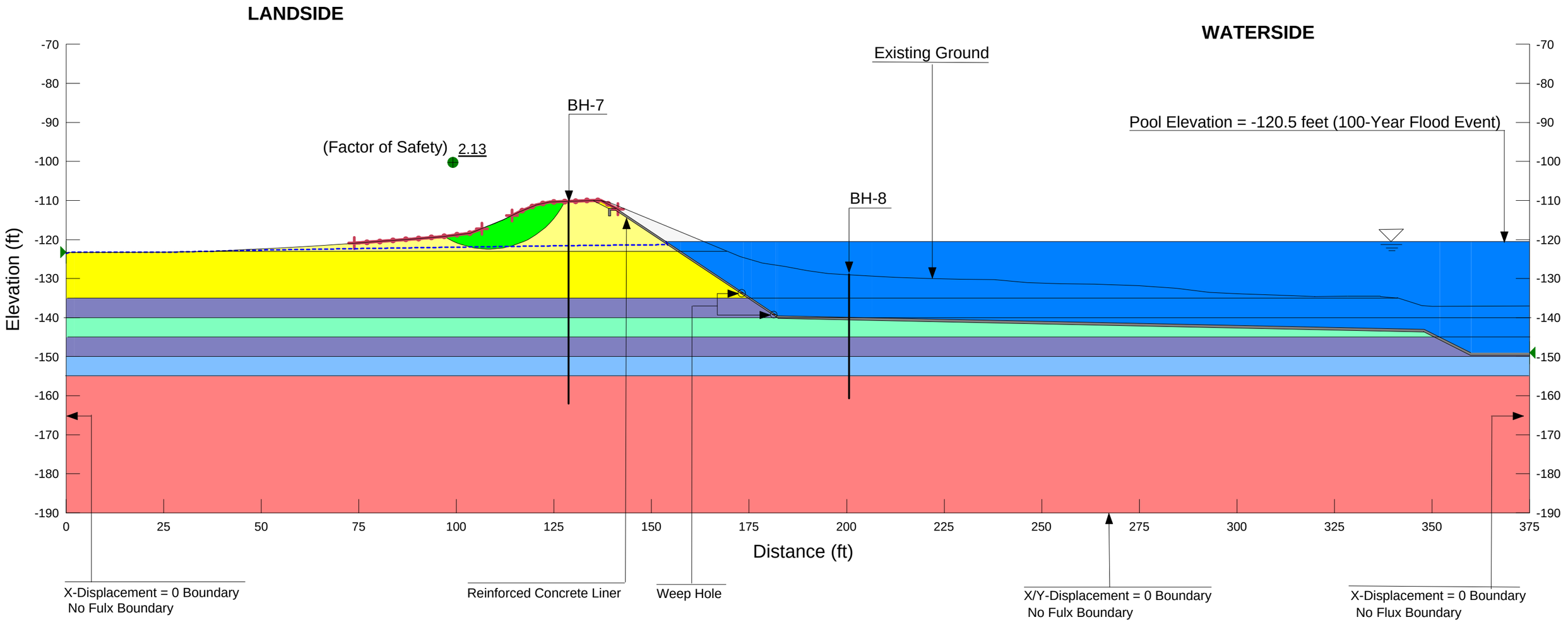
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PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-4.1

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

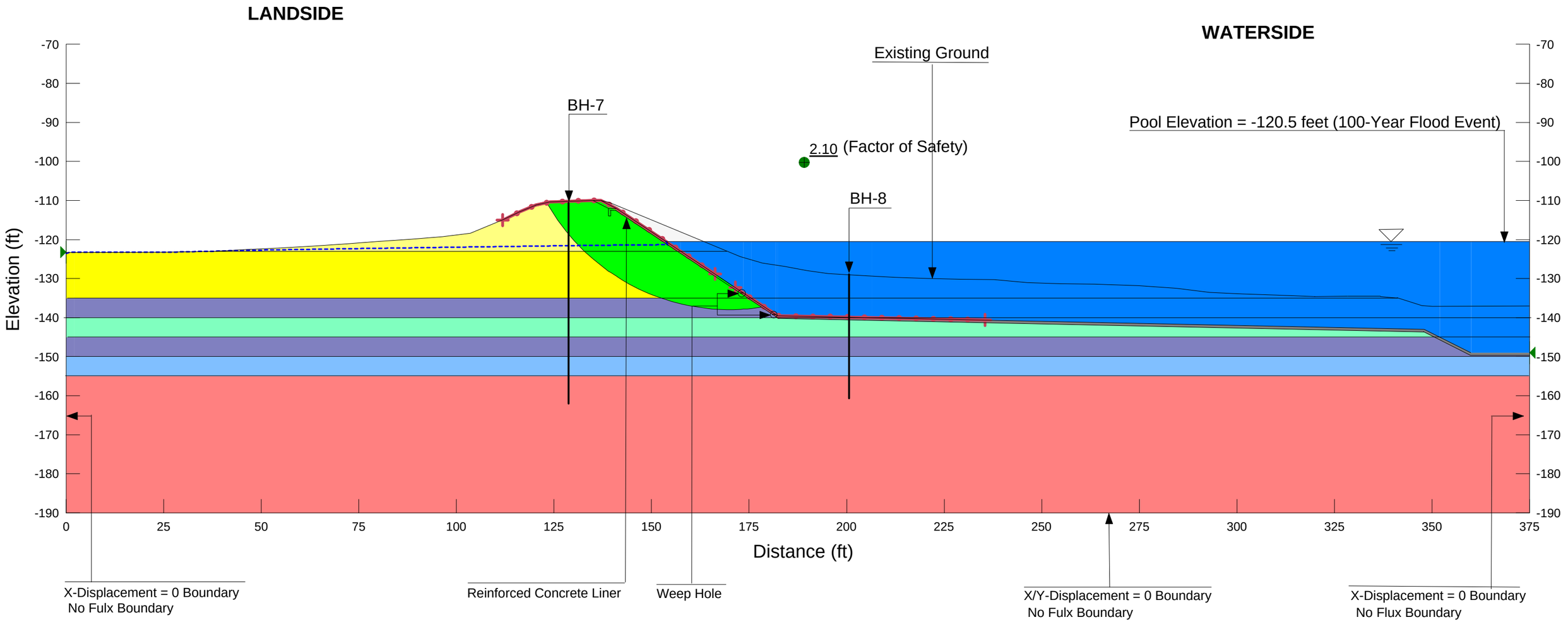
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-4.2

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

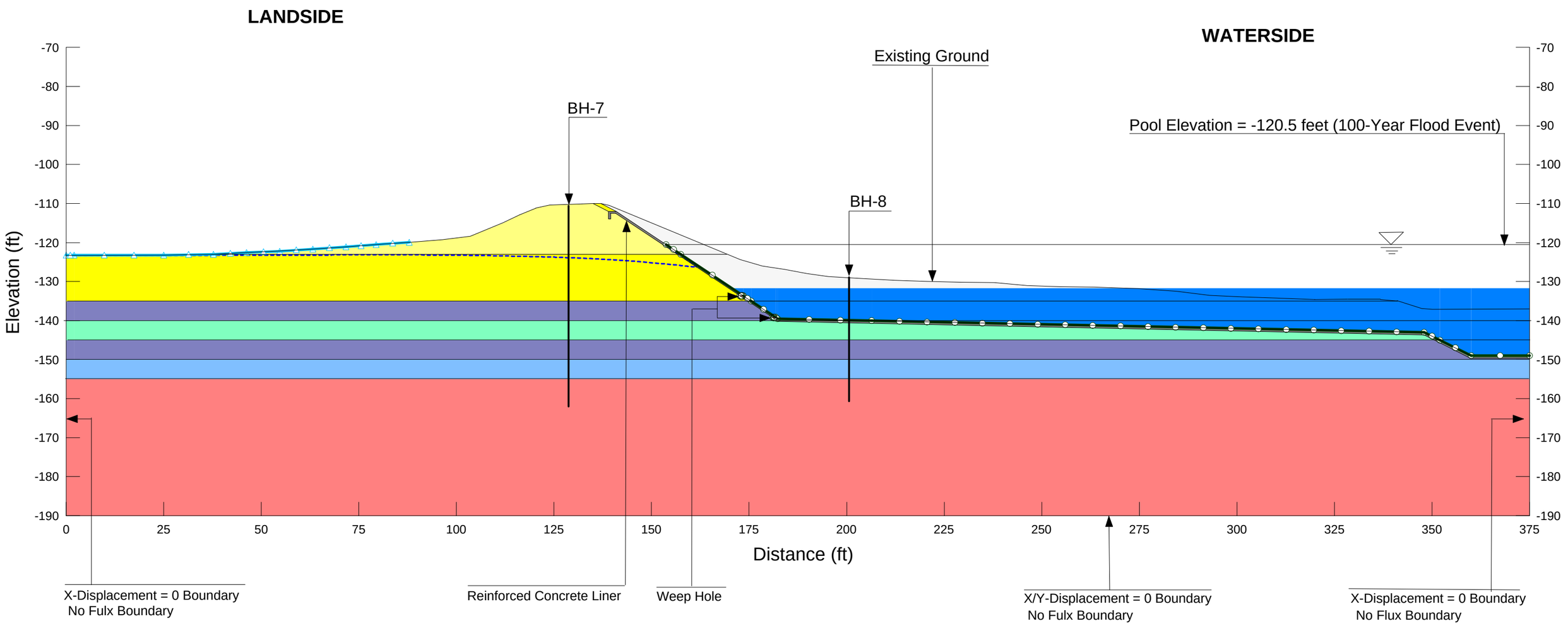
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-4.3

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF TRANSIENT SEEPAGE ANALYSIS

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER

(RAPID DRAWDOWN CONDITION, T = 4 h, 100-YEAR FLOOD EVENT)



SCALE: 1" = 25'

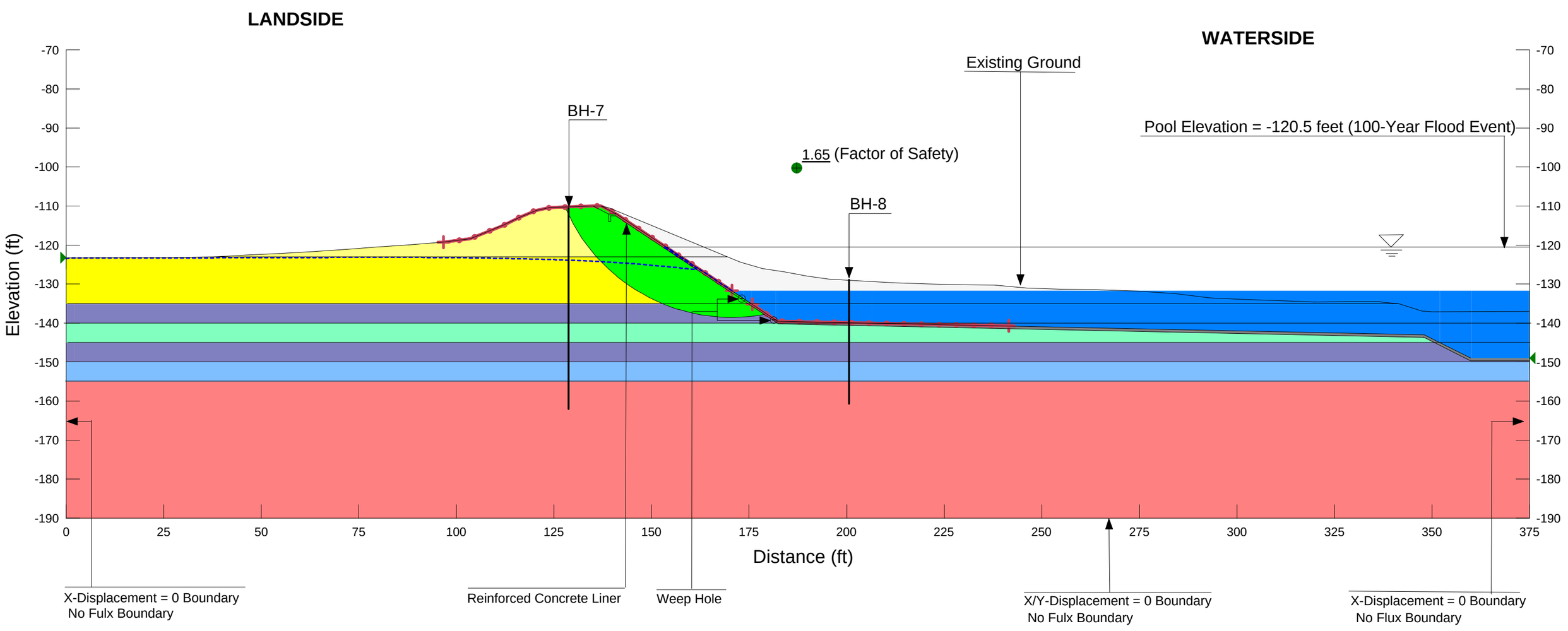
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-4.4

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

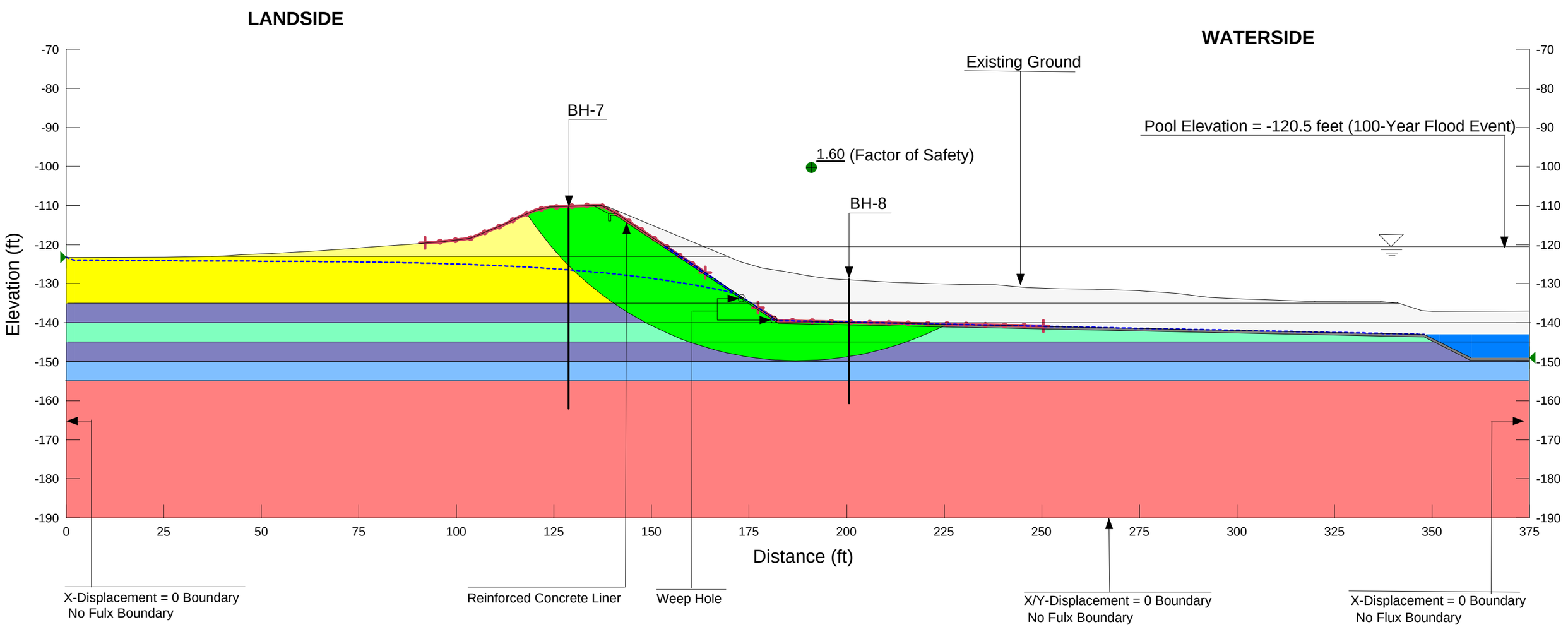
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-4.5

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

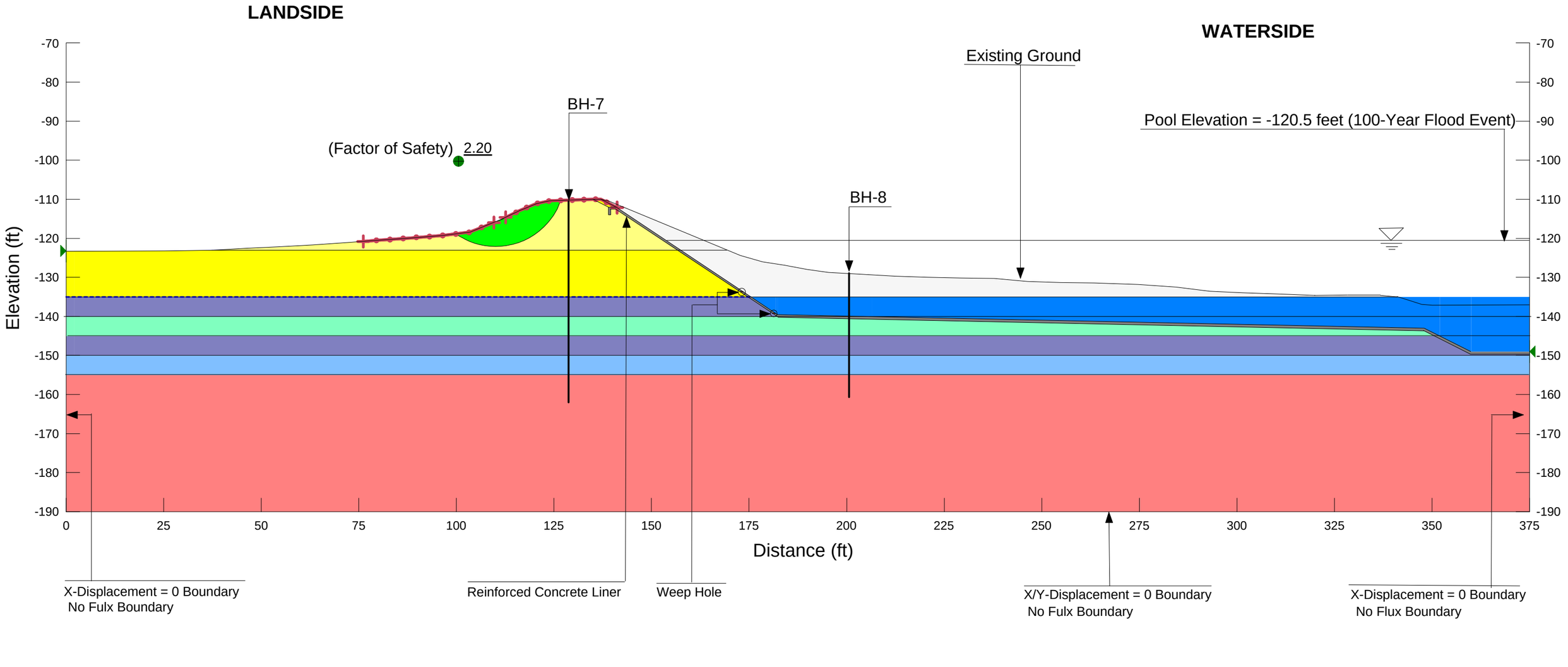
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-4.6

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER

(STATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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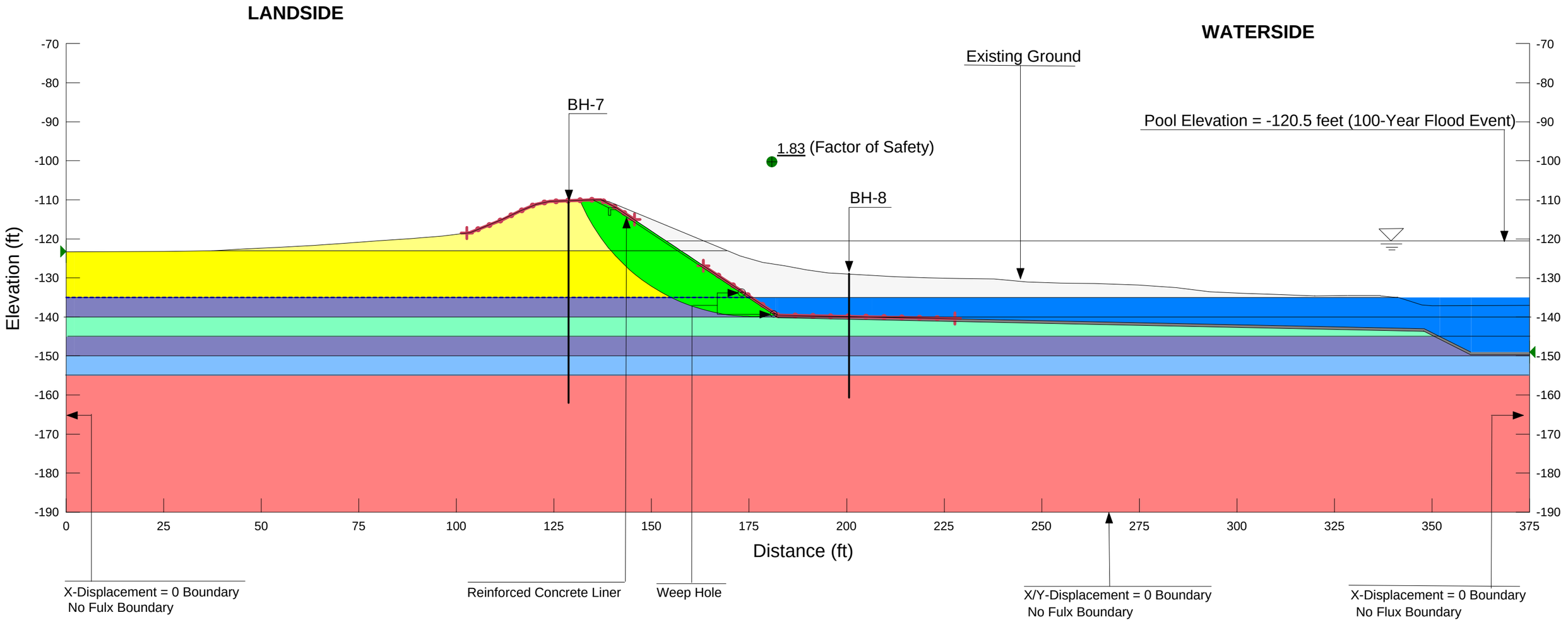
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-4.7

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER

(STATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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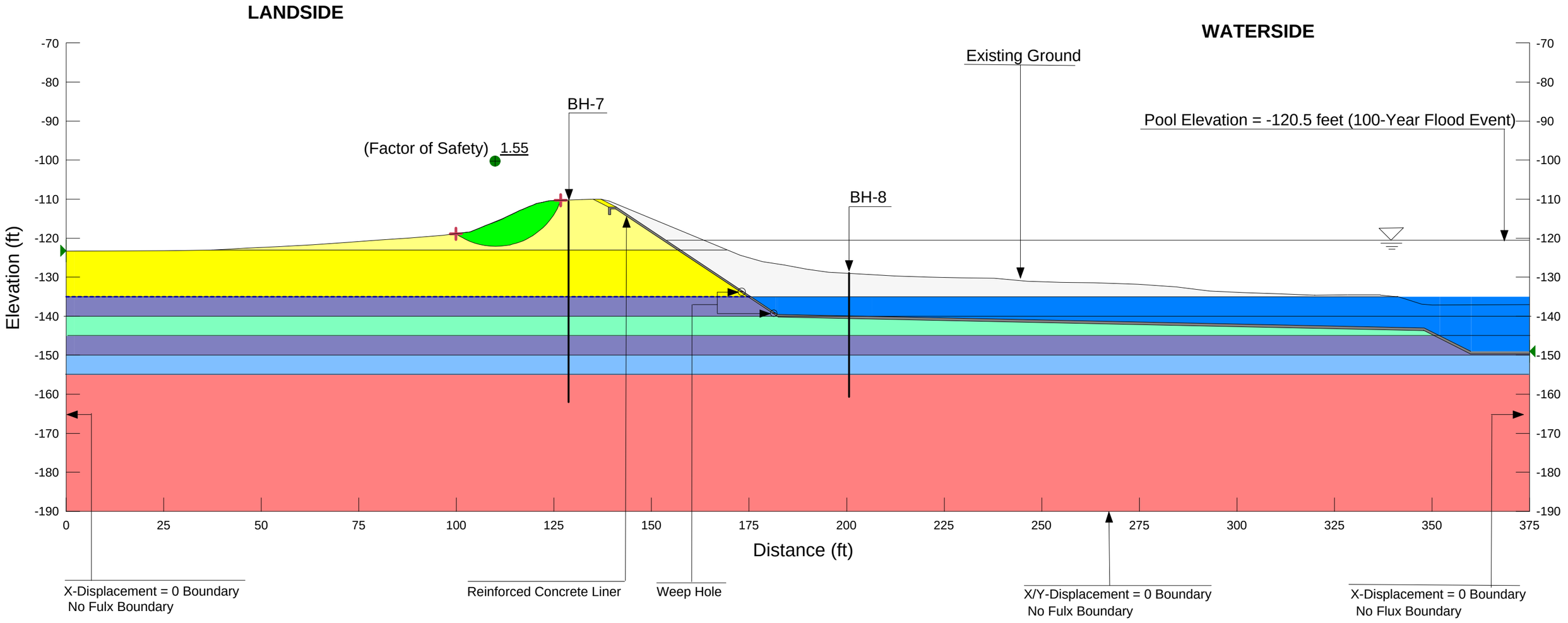
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-4.8

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER

(PSEUDOSTATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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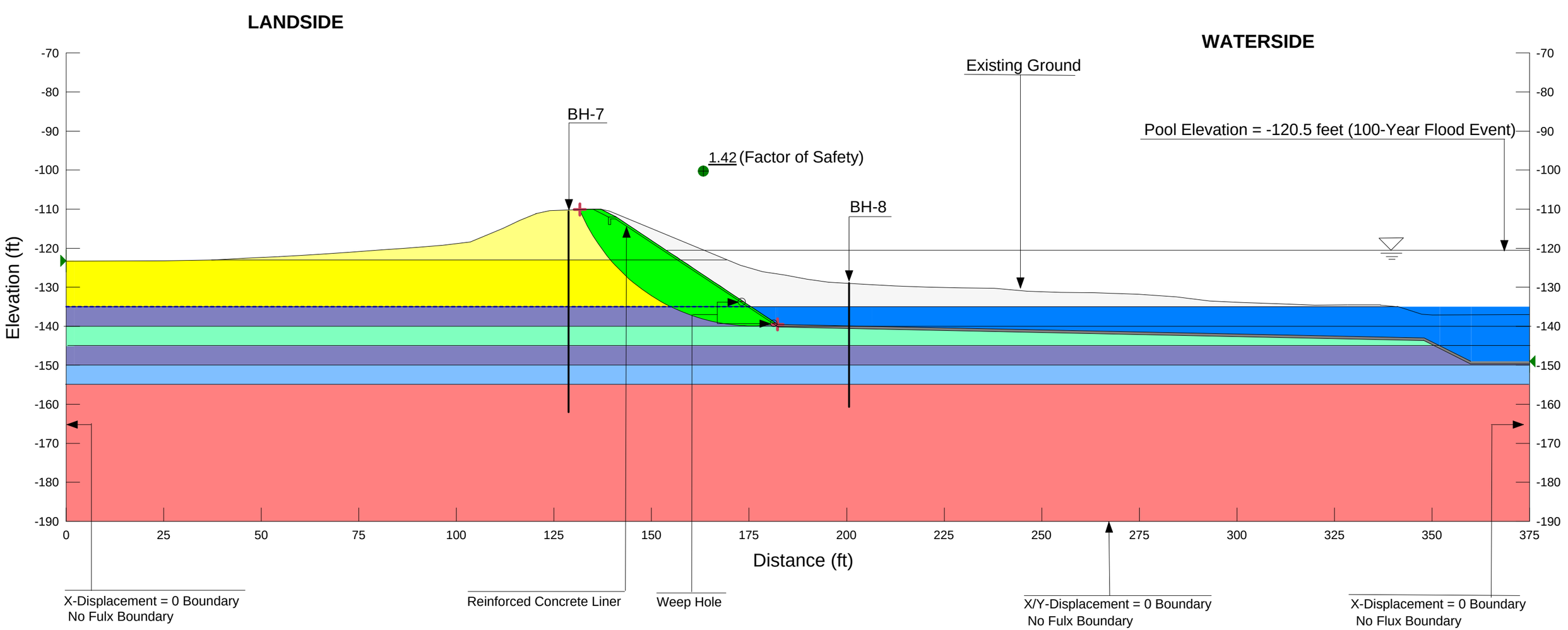
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-4.9

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER

(PSEUDOSTATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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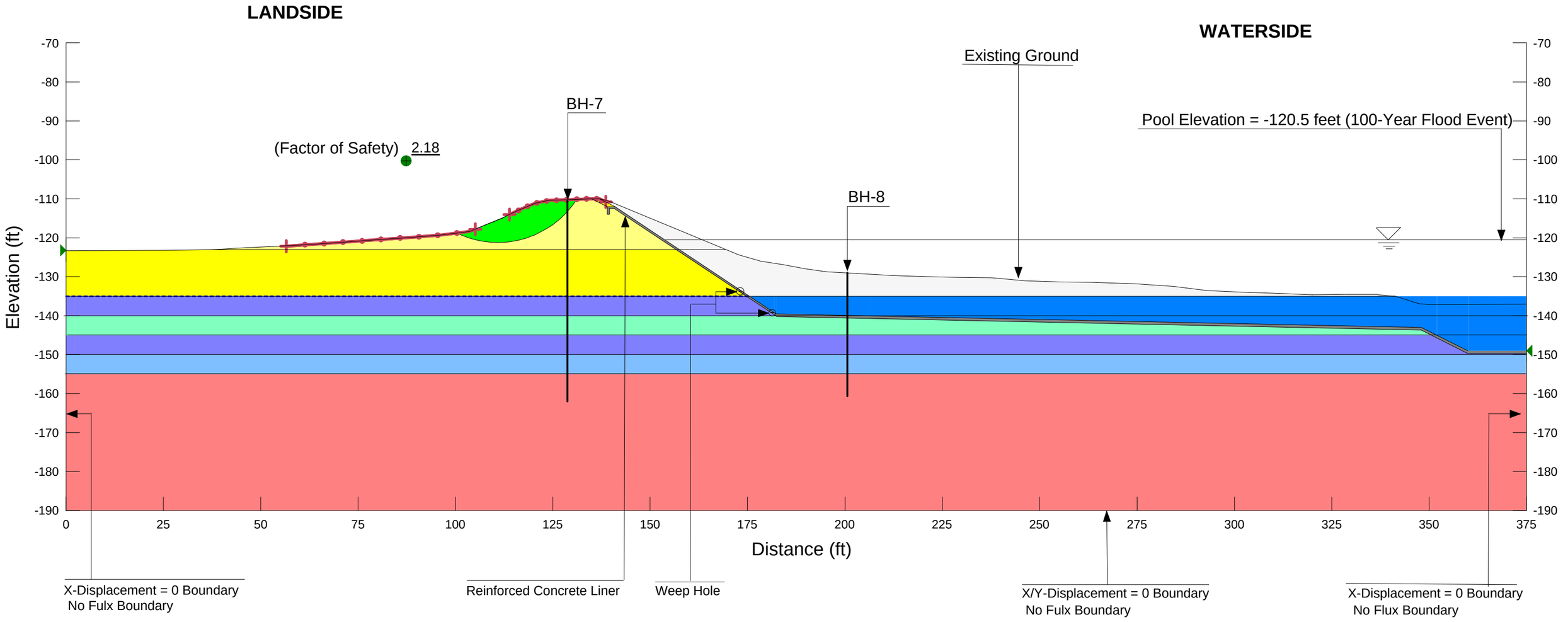
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-4.10

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER

(POST-EARTHQUAKE CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

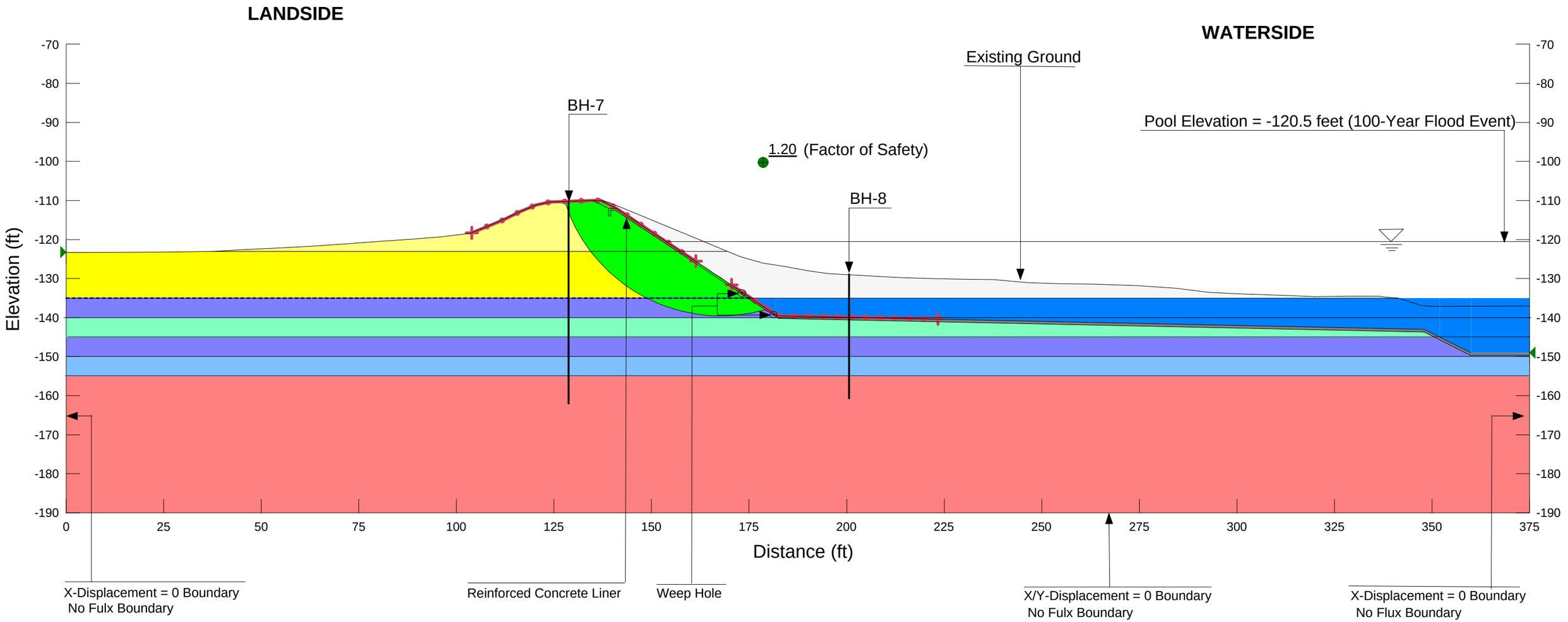
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-4.11

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER

(POST-EARTHQUAKE CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

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PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-4.12

APPENDIX E

SUMMARY OF RESULTS OF SEEPAGE AND SLOPE STABILITY ANALYSES

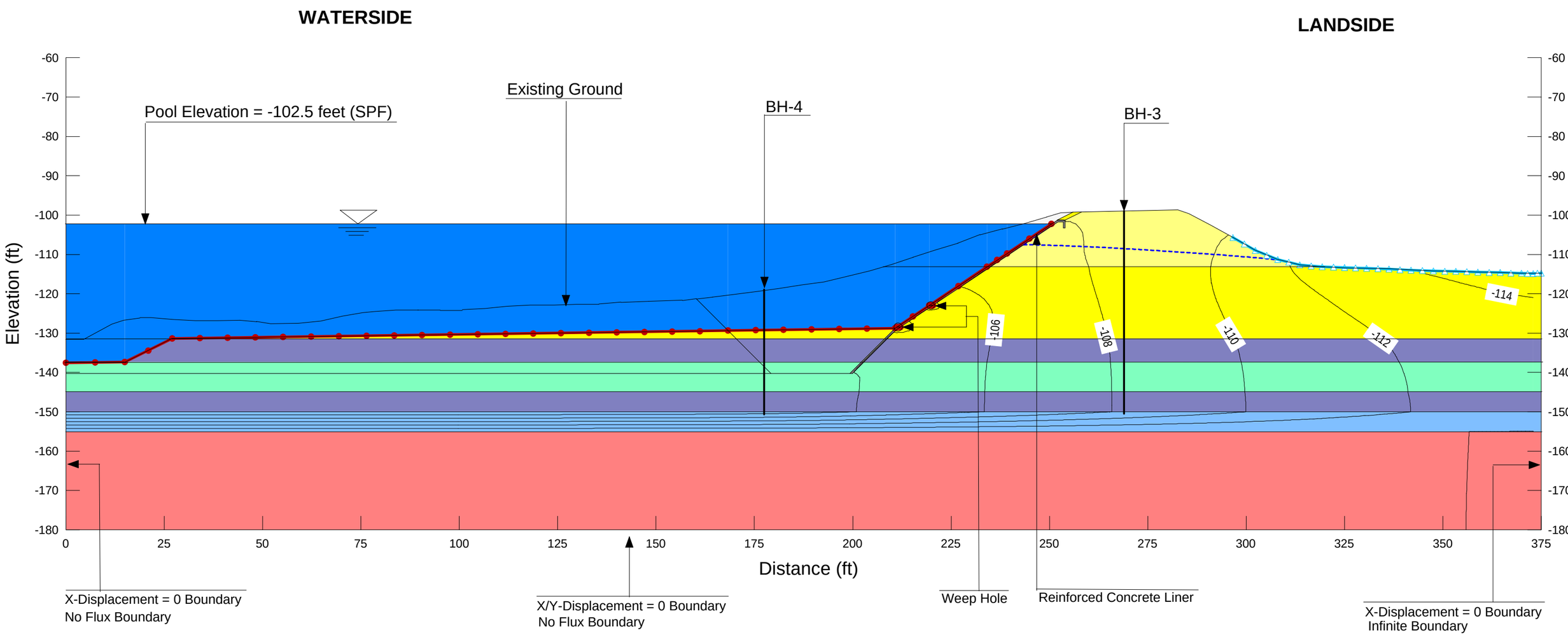
FOR

STANDARD PROJECT FLOOD EVENT

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF SEEPAGE ANALYSIS - STANDARD PROJECT FLOOD (SPF) EVENT

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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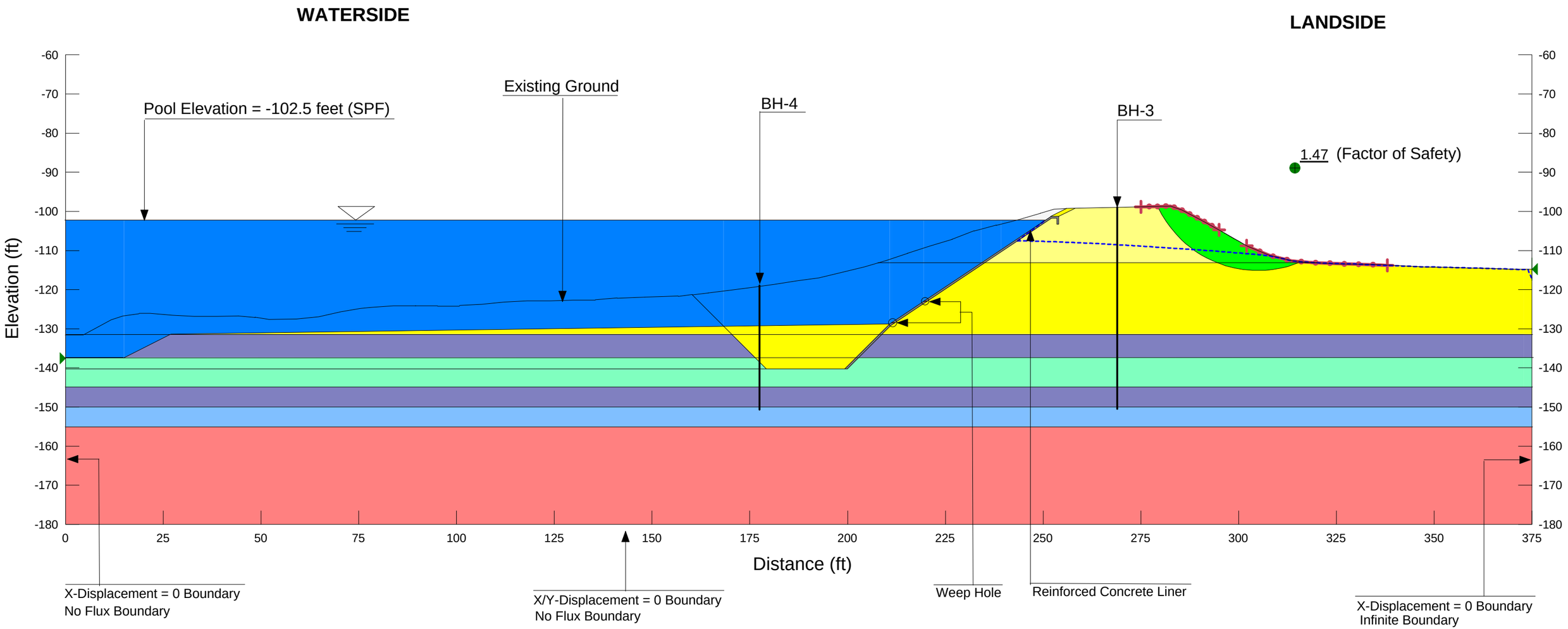
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-1.1

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(STATIC CONDITION, STANDARD PROJECT FLOOD (SPF) EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

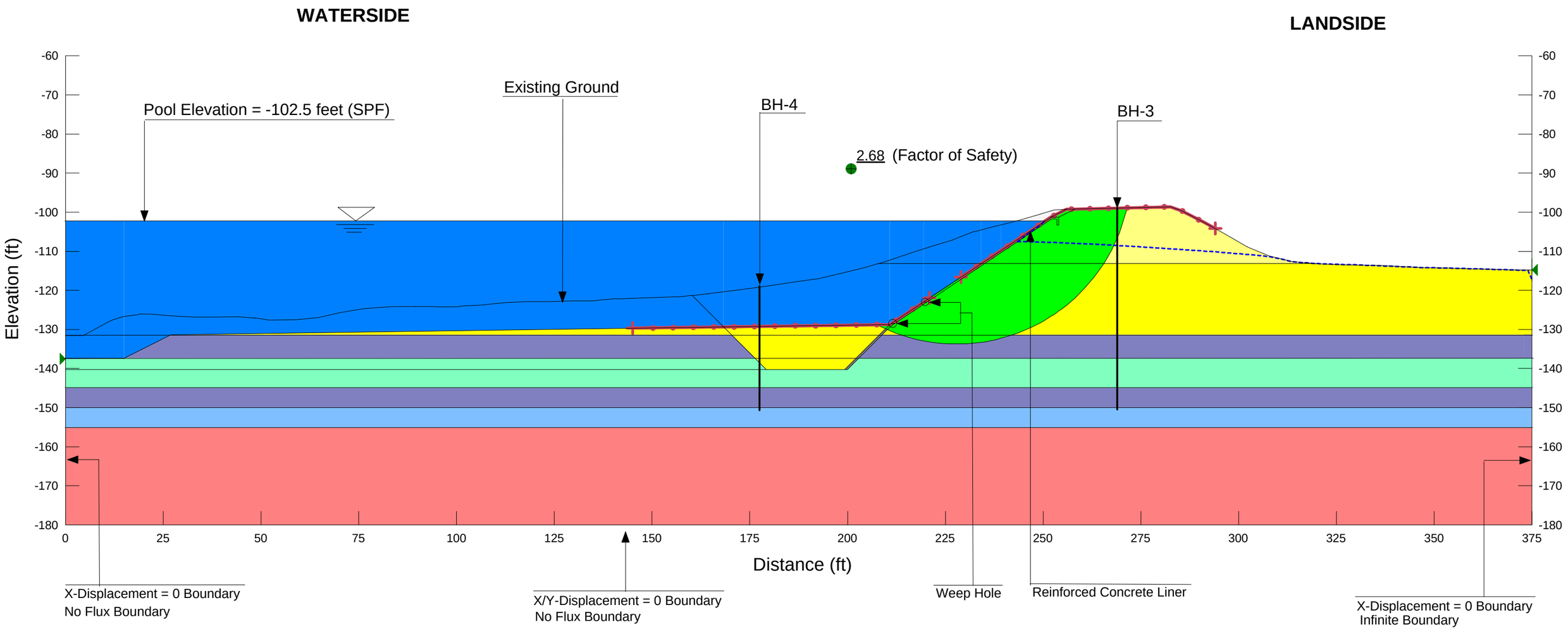
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-1.2

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(STATIC CONDITION, STANDARD PROJECT FLOOD (SPF) EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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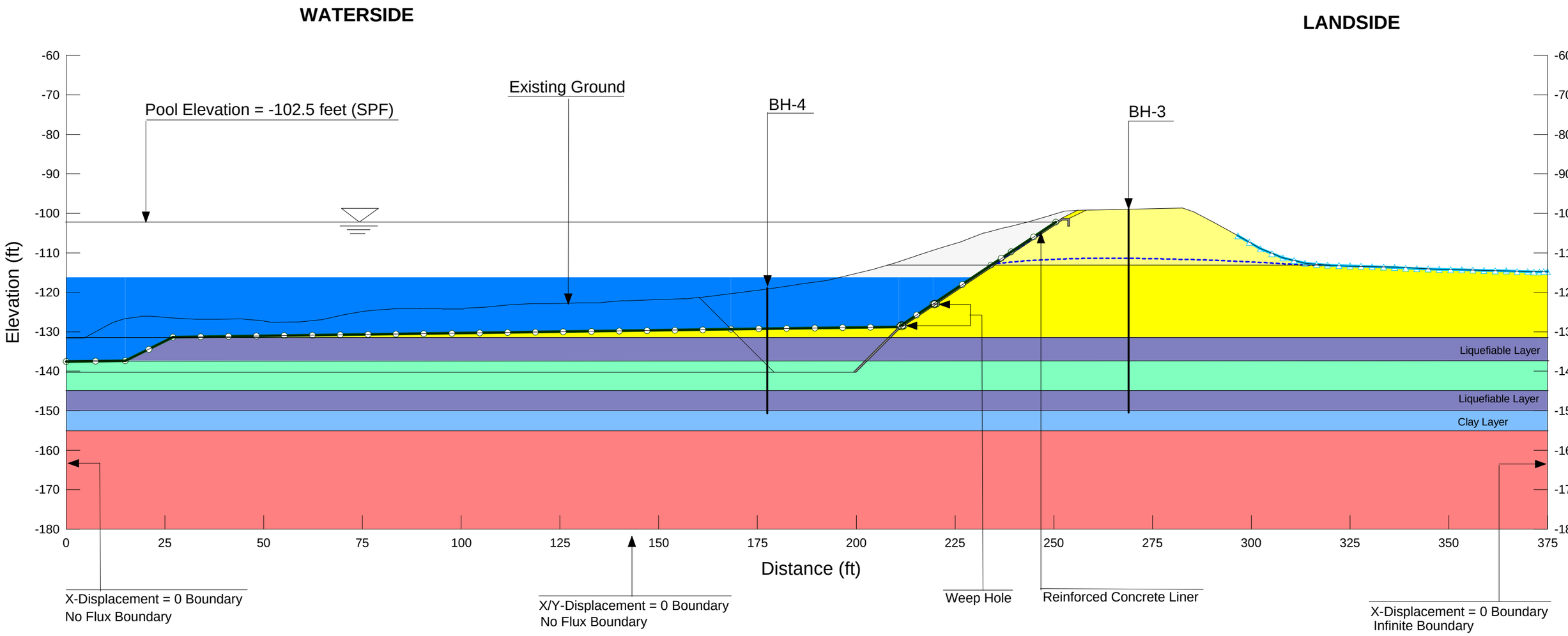
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-1.3

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF TRANSIENT SEEPAGE ANALYSIS

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(T = 4 h, STANDARD PROJECT FLOOD (SPF) EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

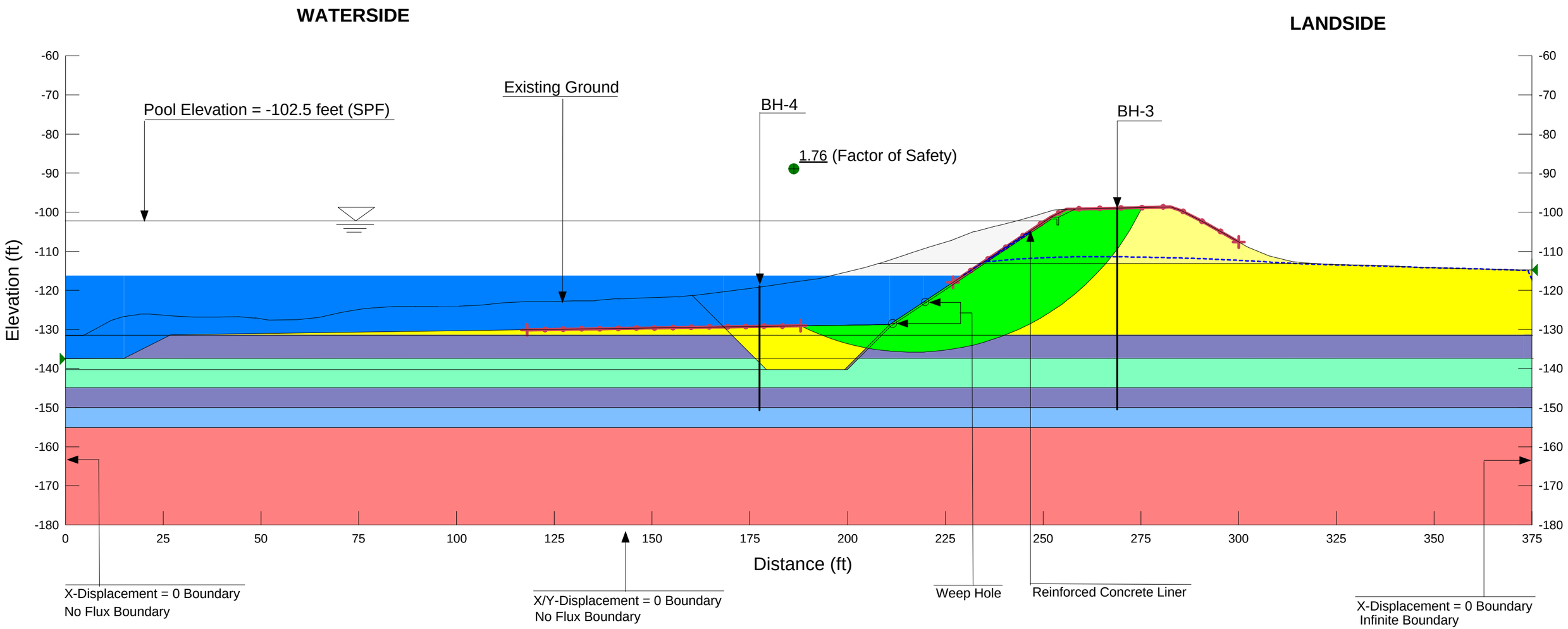
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-1.4

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(RAPID DRAWDOWN CONDITION, T = 4 h, STANDARD PROJECT FLOOD (SPF) EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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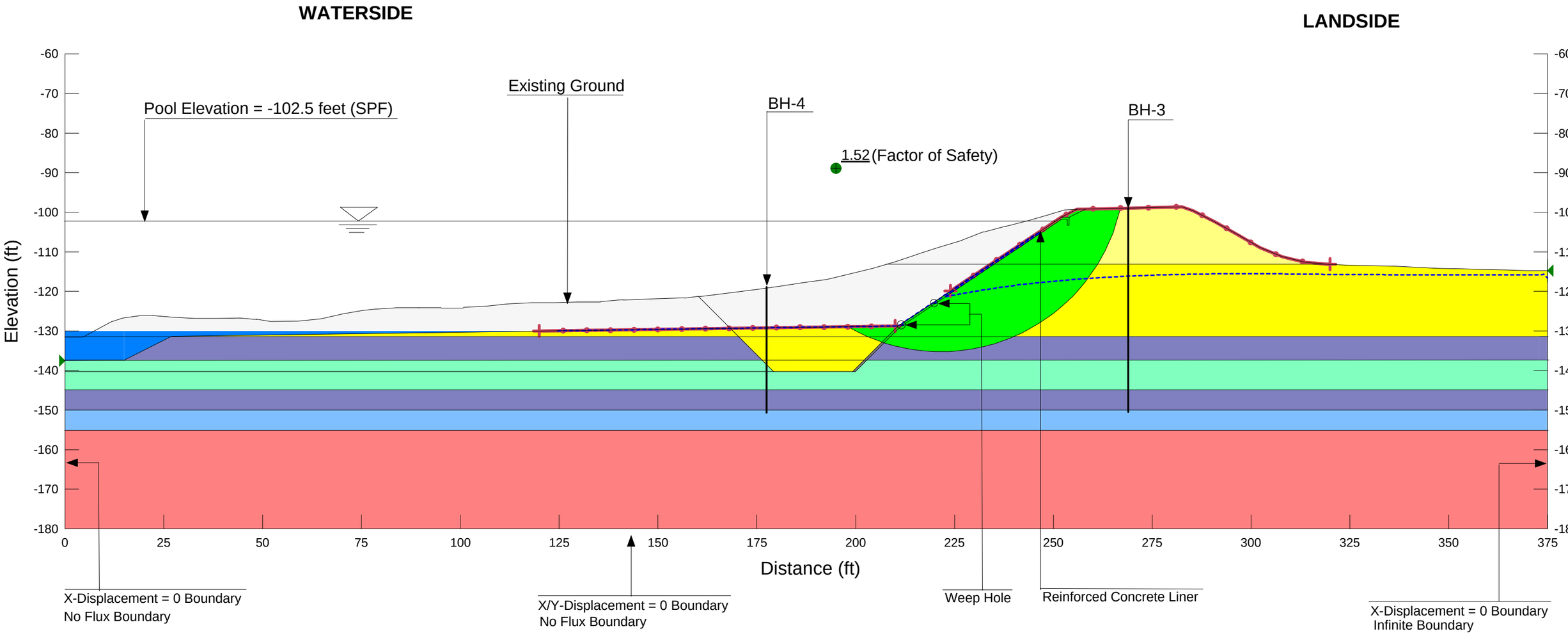
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-1.5

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(RAPID DRAWDOWN CONDITION, T = 8 h, STANDARD PROJECT FLOOD (SPF) EVENT)



SCALE: 1" = 25'

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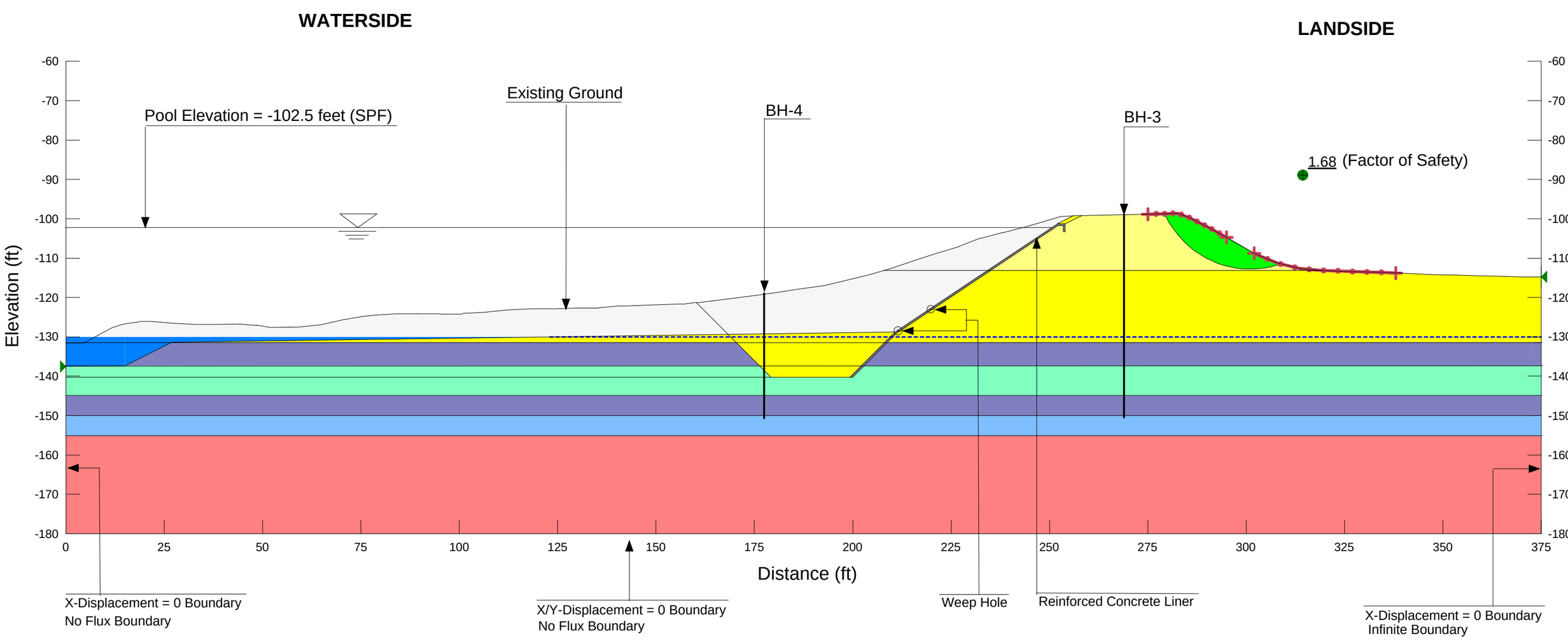
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-1.6

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(STATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

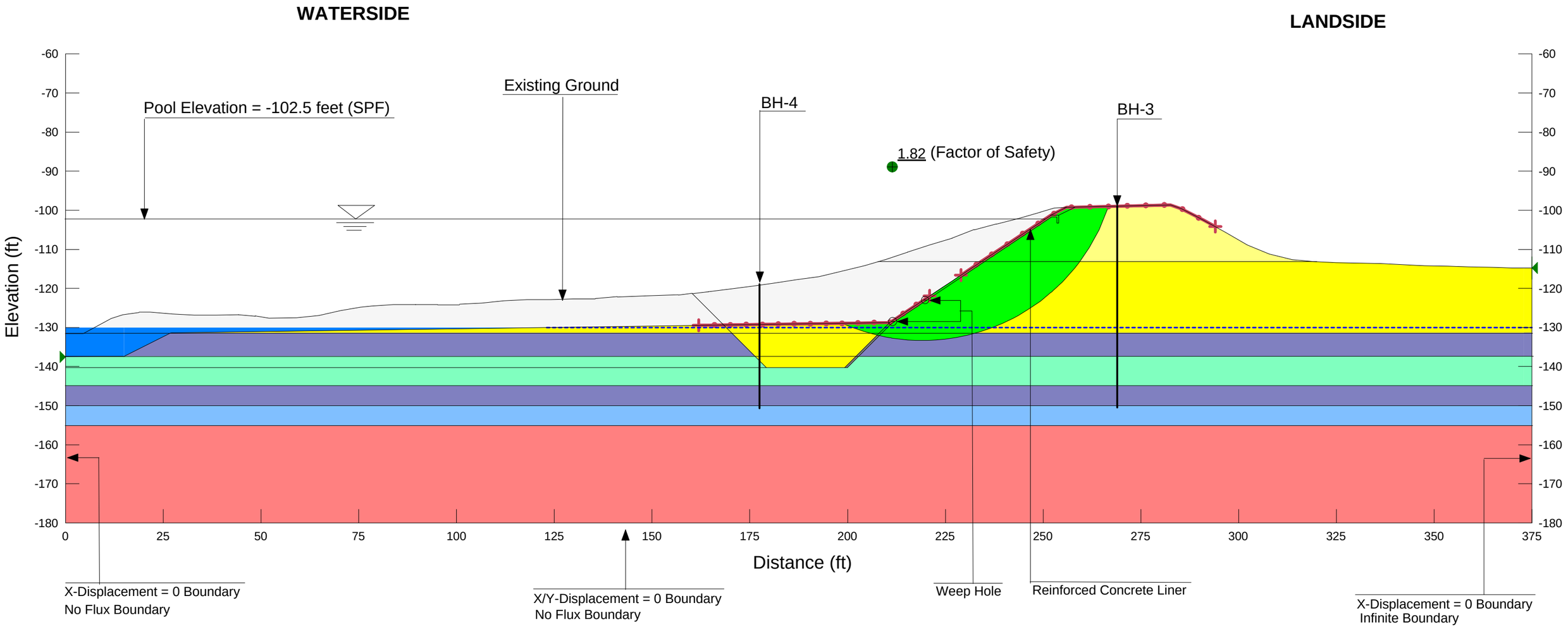
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ENGINEERING & GEOTECHNICAL SERVICES

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(STATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

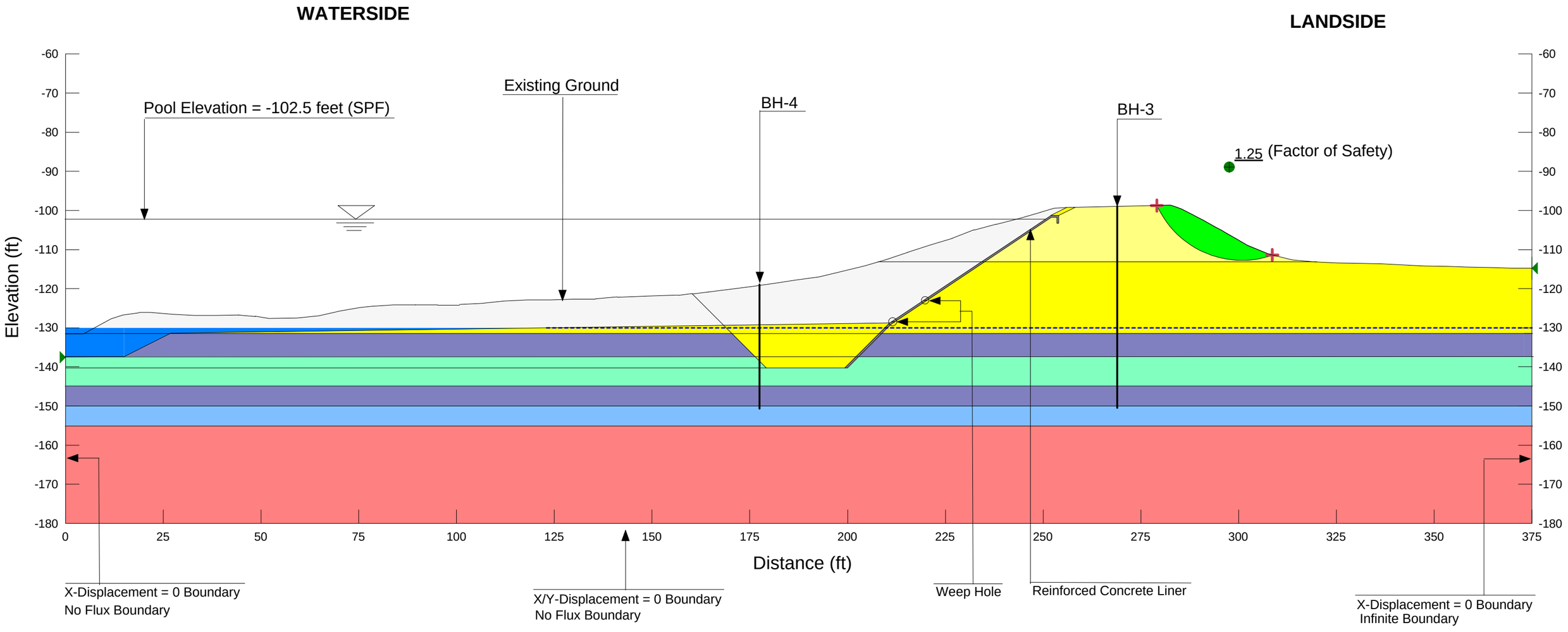
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-1.8

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(PSEUDOSTATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

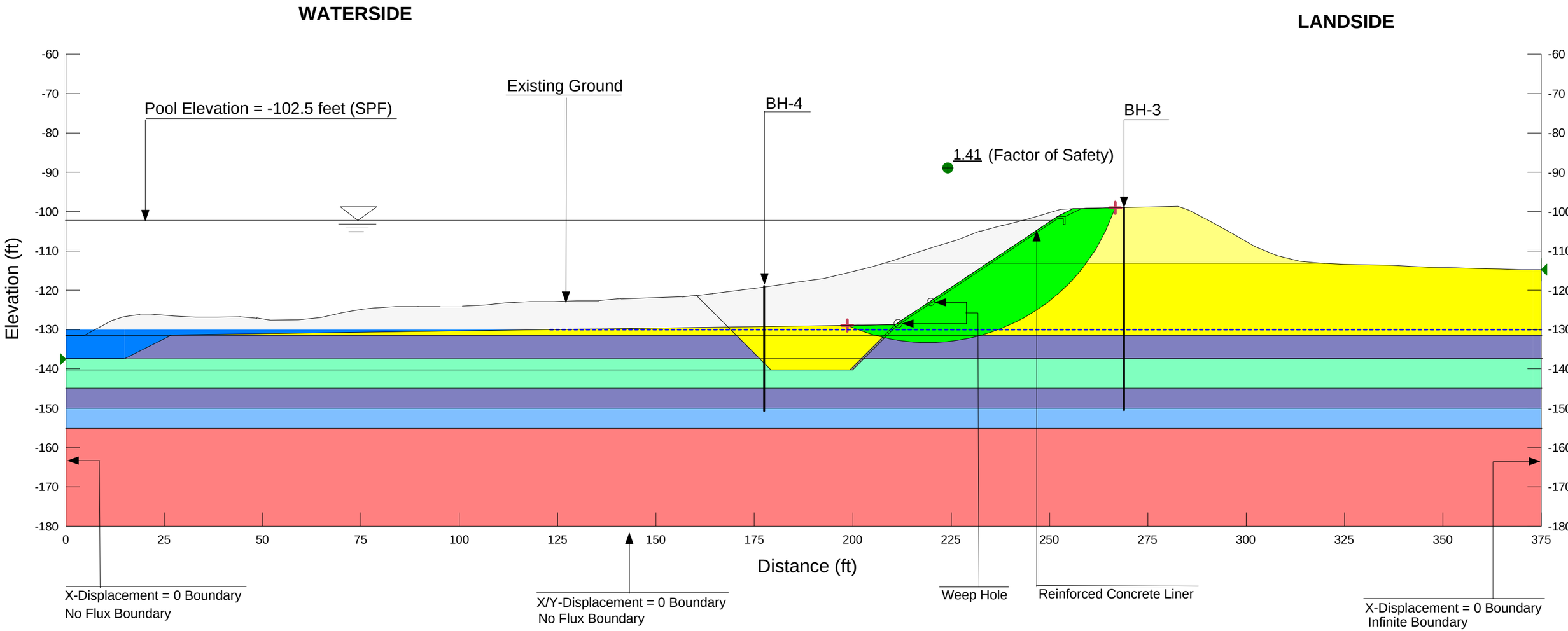
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-1.9

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(PSEUDOSTATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

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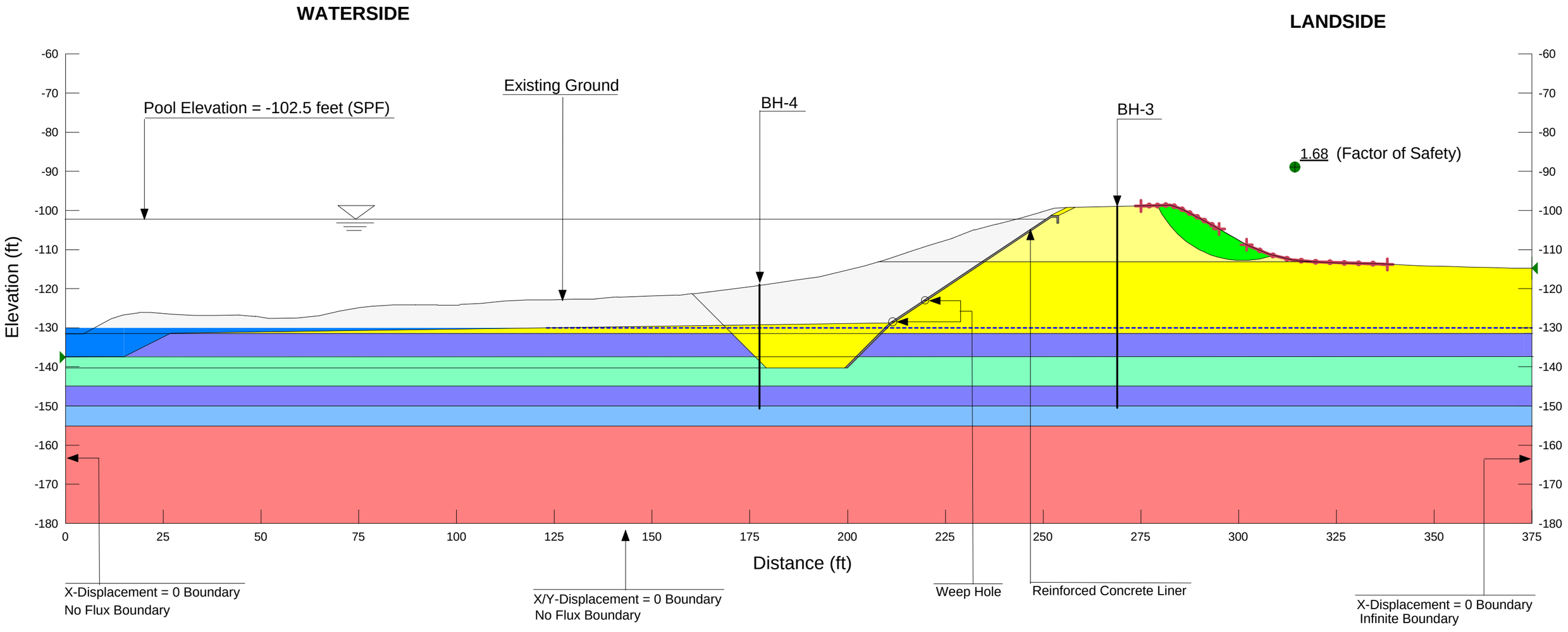
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-1.10

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(POST-EARTHQUAKE CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

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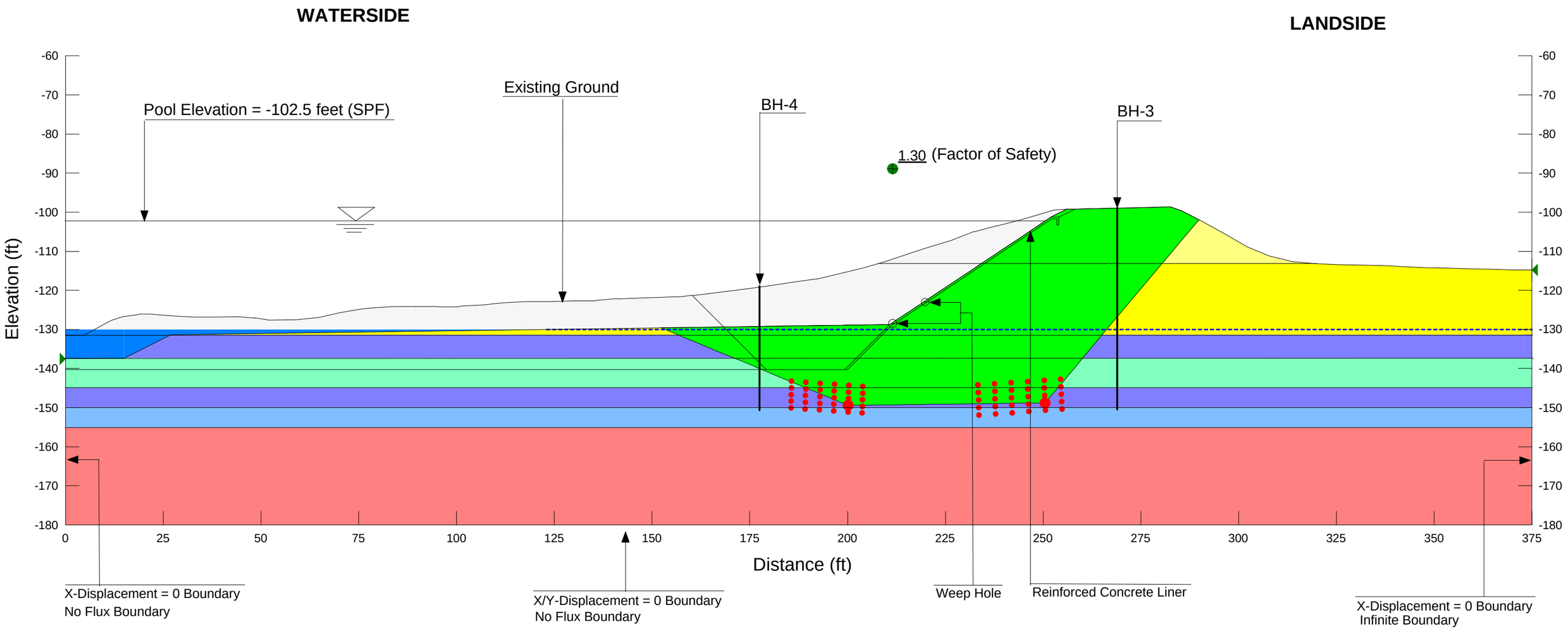
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-1.11

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - SIDE LINER

(POST-EARTHQUAKE CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

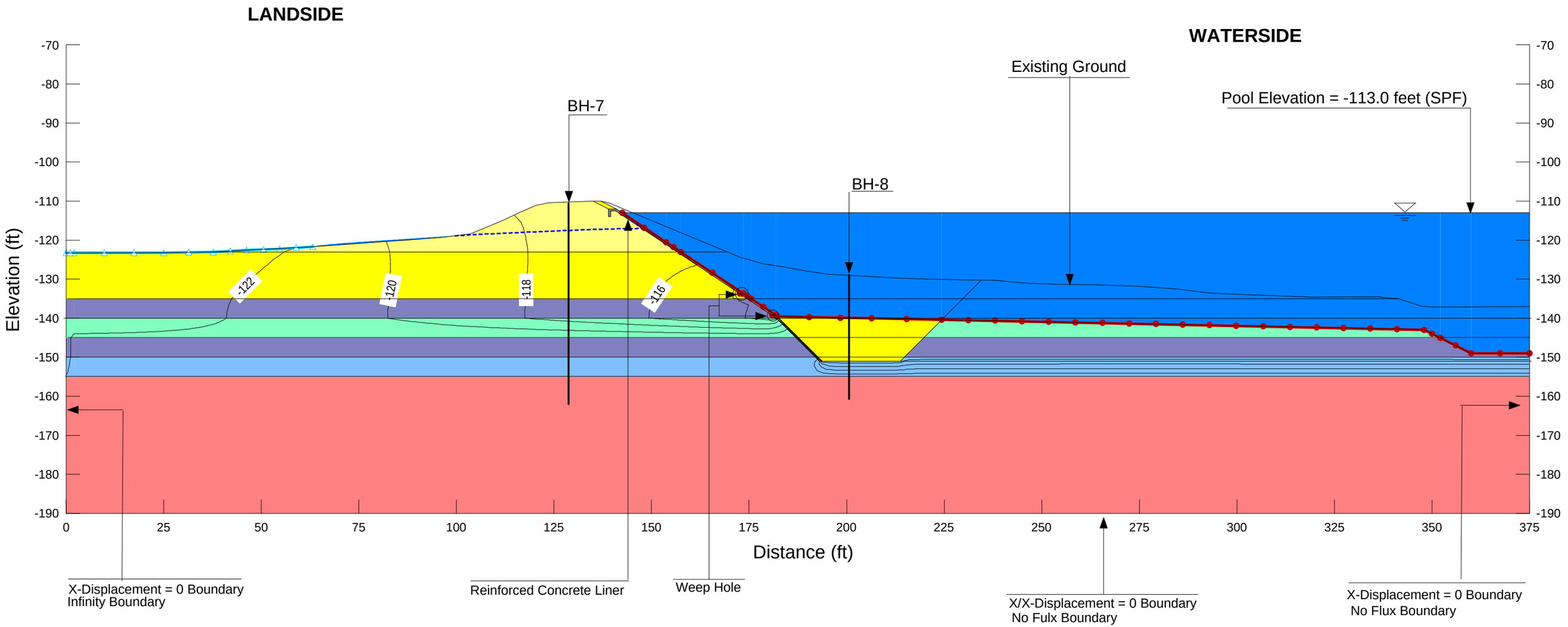
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PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-1.12

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF SEEPAGE ANALYSIS - STANDARD PROJECT FLOOD (SPF) EVENT

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER



SCALE: 1" = 25'

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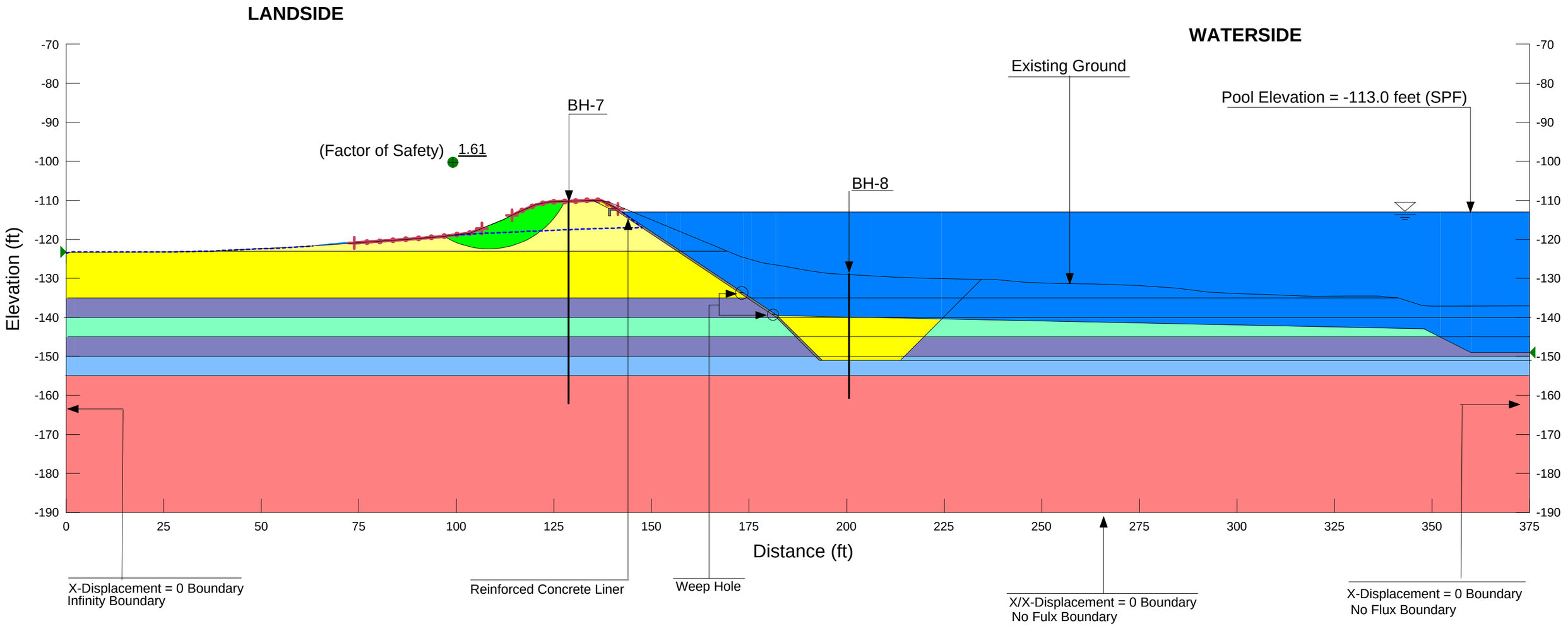
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-2.1

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(STATIC CONDITION, STANDARD PROJECT FLOOD (SPF) EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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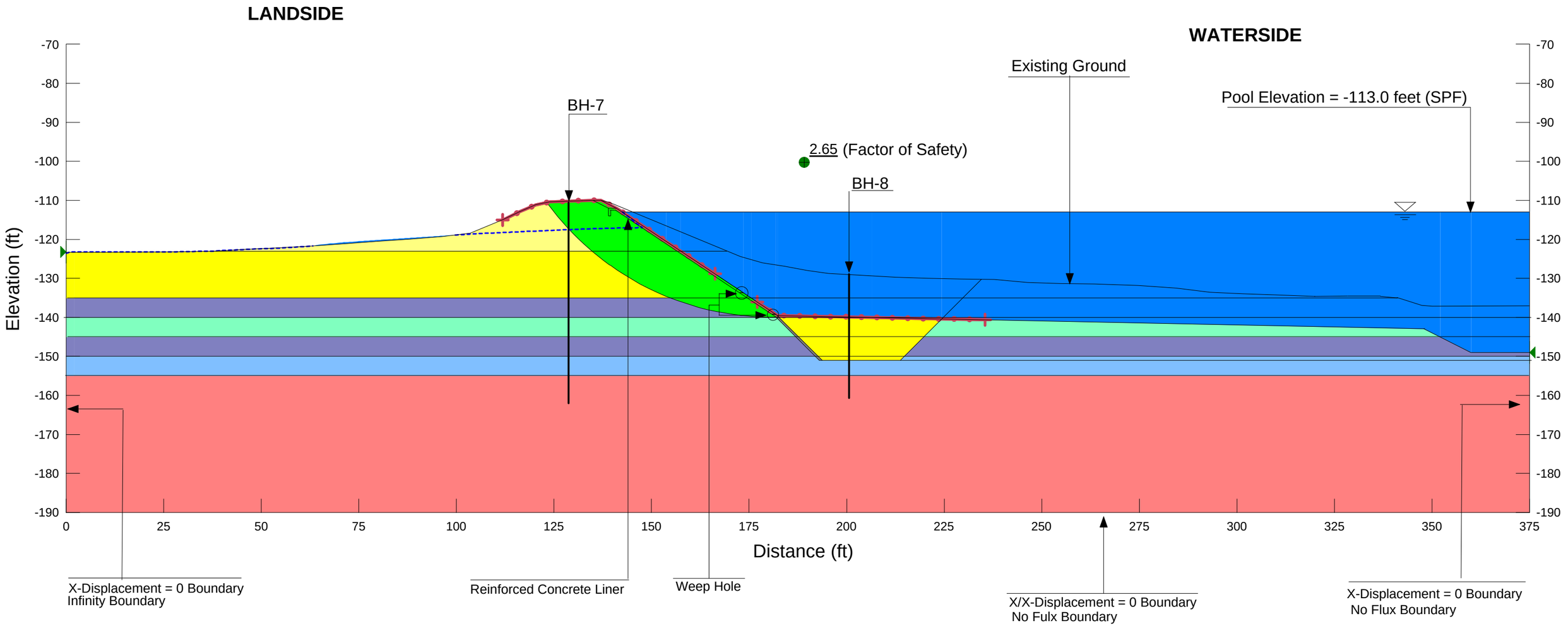
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-2.2

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(STATIC CONDITION, STANDARD PROJECT FLOOD (SPF) EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

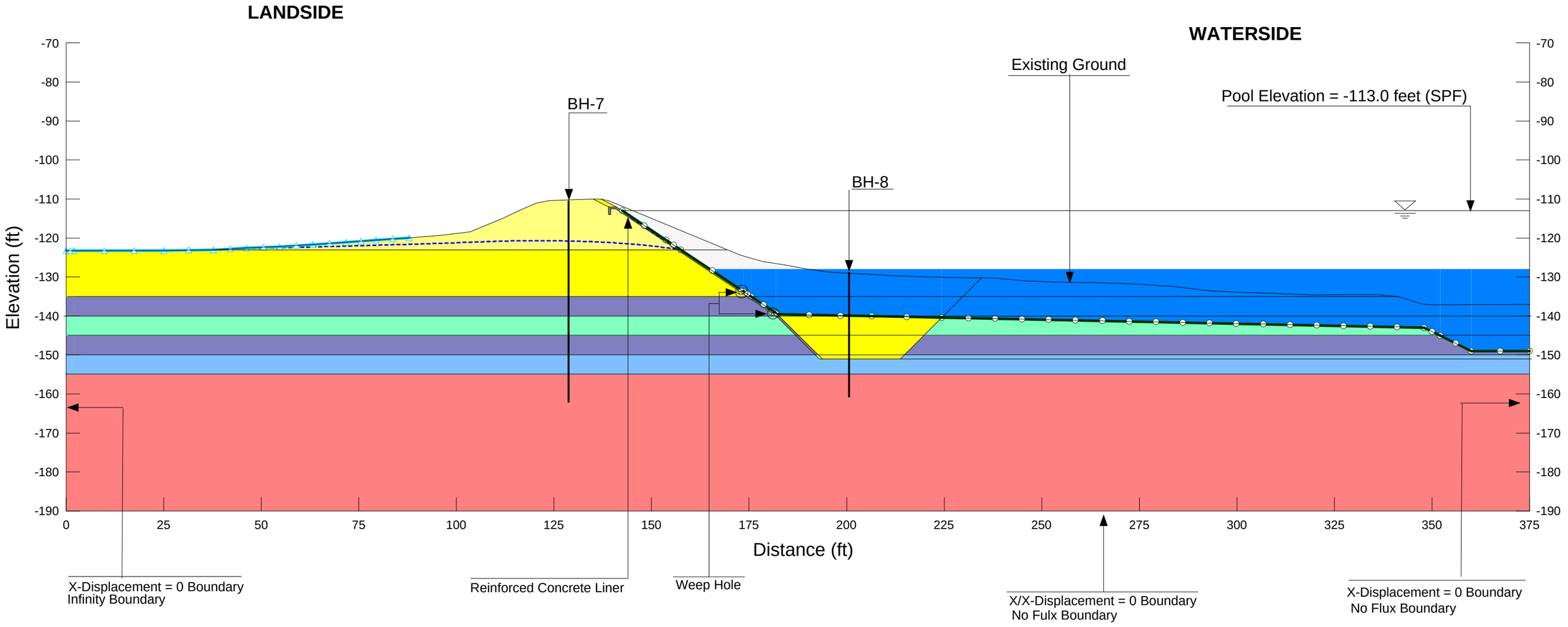
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-2.3

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF TRANSIENT SEEPAGE ANALYSIS

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(T = 4 h, STANDARD PROJECT FLOOD (SPF) EVENT)



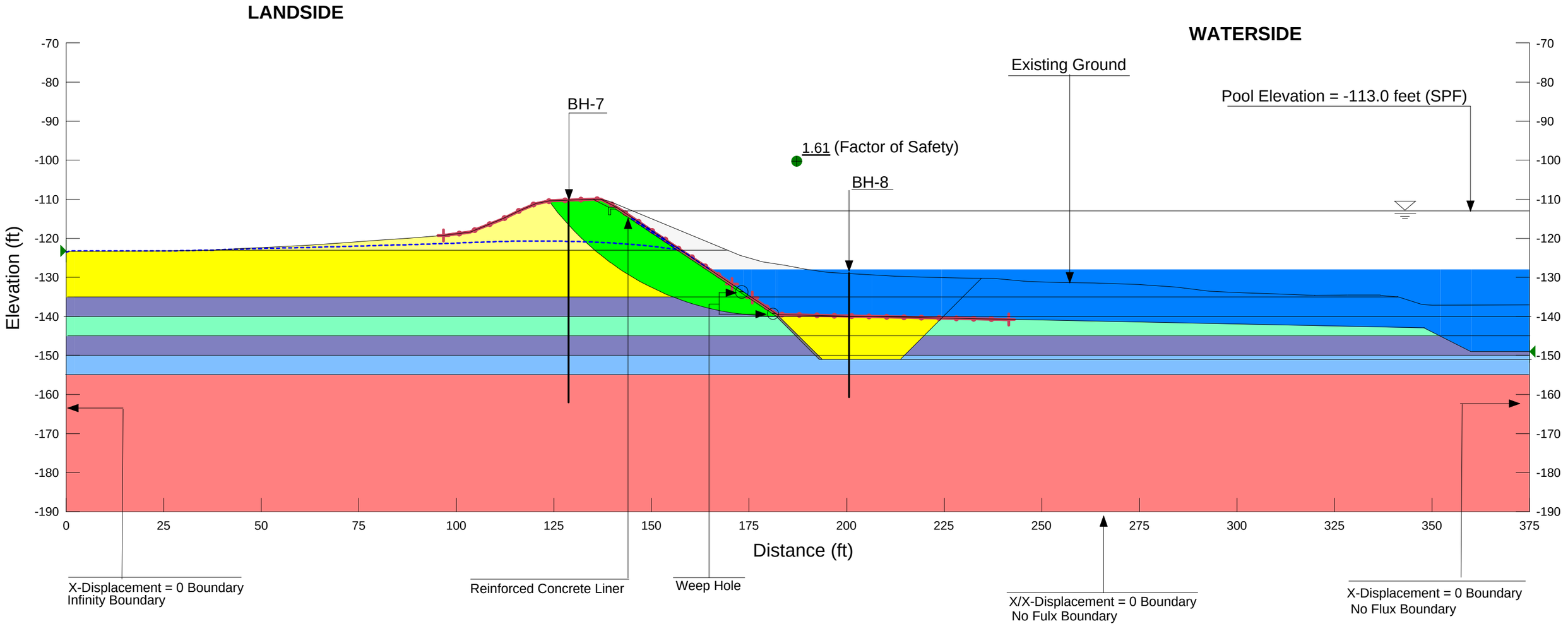
SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER
(RAPID DRAWDOWN CONDITION, T = 4 h, STANDARD PROJECT FLOOD (SPF) EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

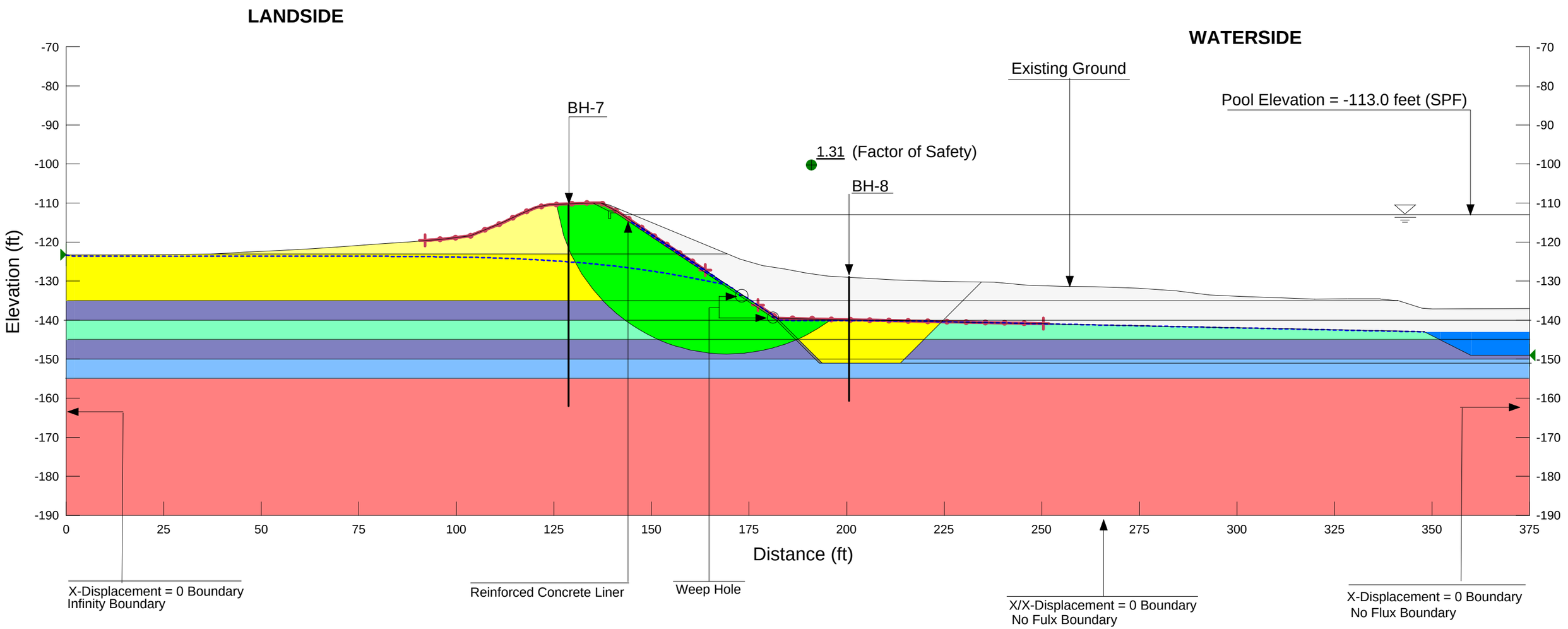
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-2.5

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(RAPID DRAWDOWN CONDITION, T = 8 h, STANDARD PROJECT FLOOD (SPF) EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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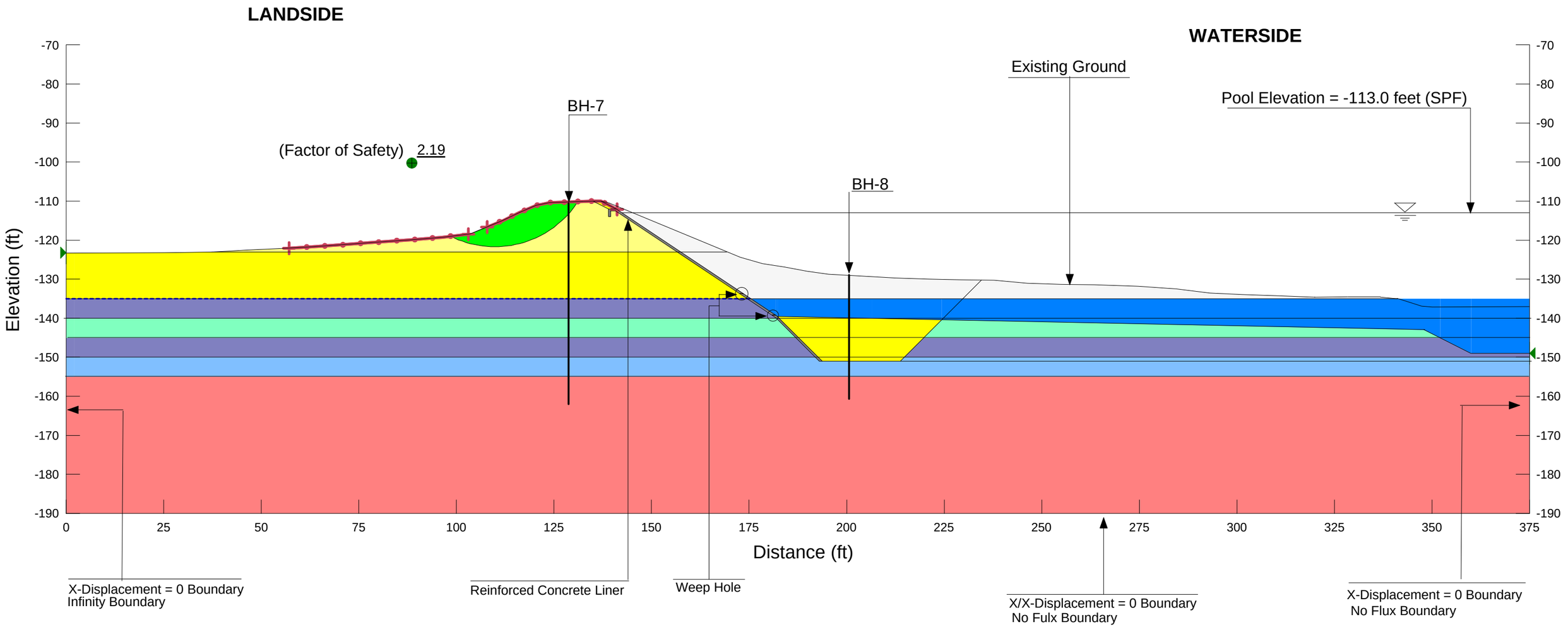
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-2.6

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(STATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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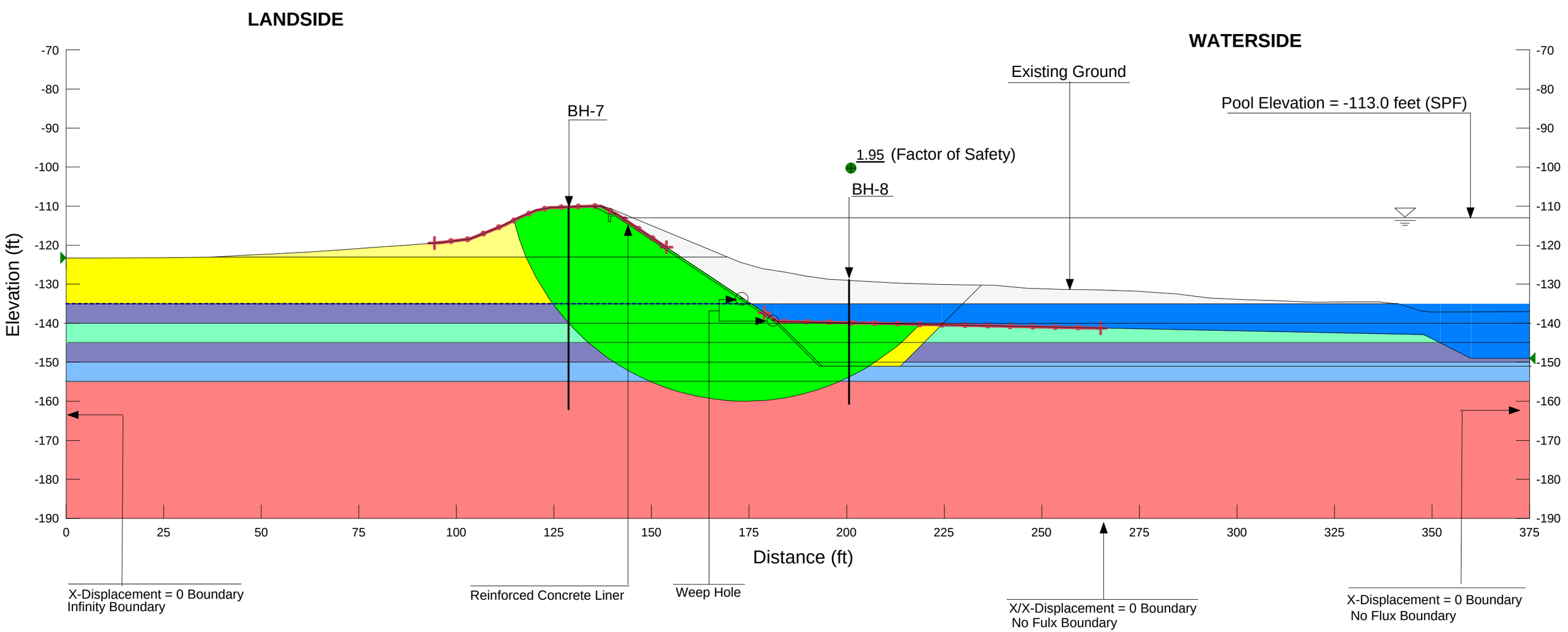
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-2.7

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(STATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

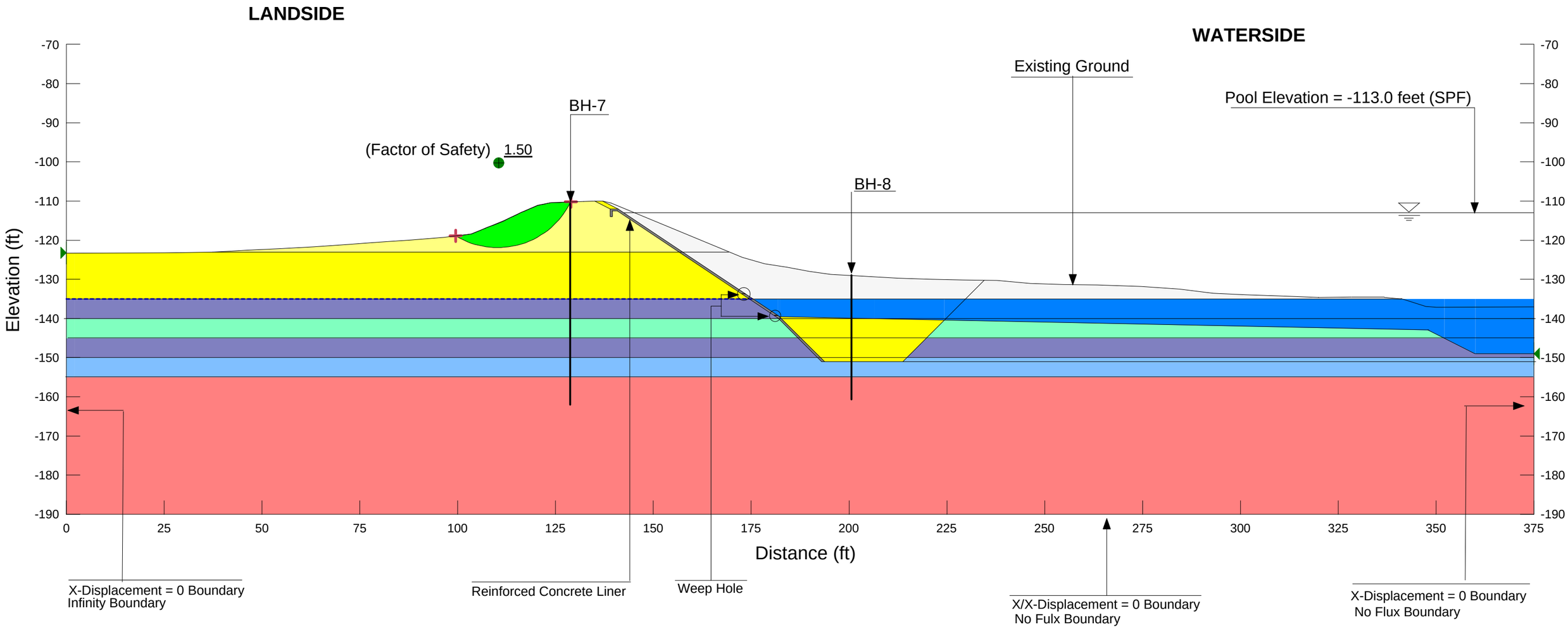
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(PSEUDOSTATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

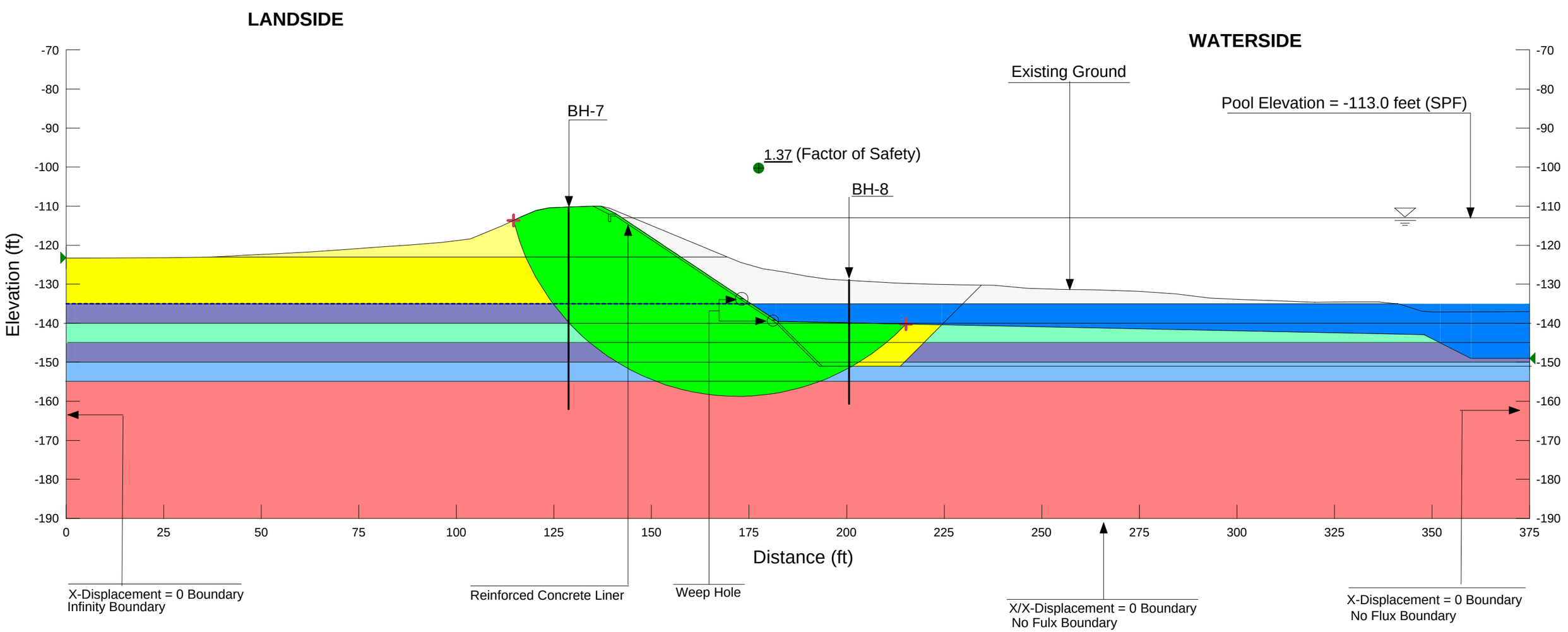
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(PSEUDOSTATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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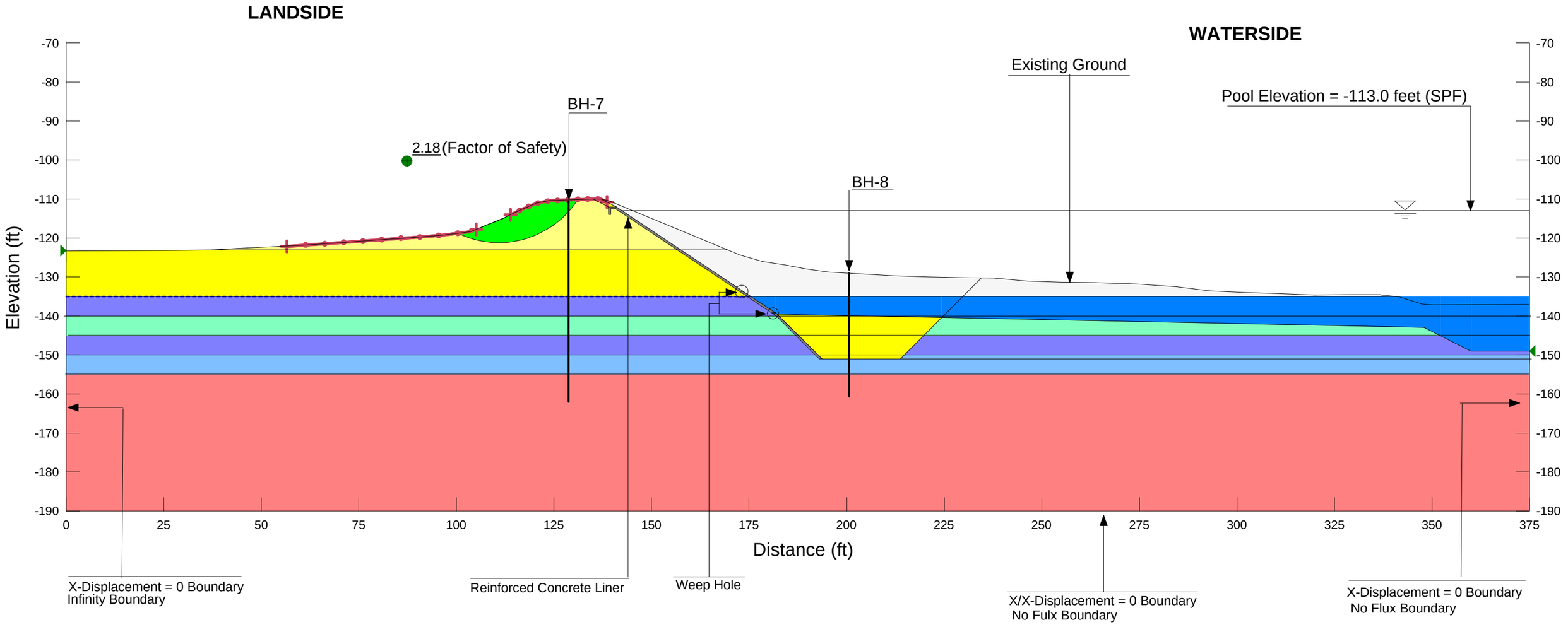
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-2.10

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(POST-EARTHQUAKE CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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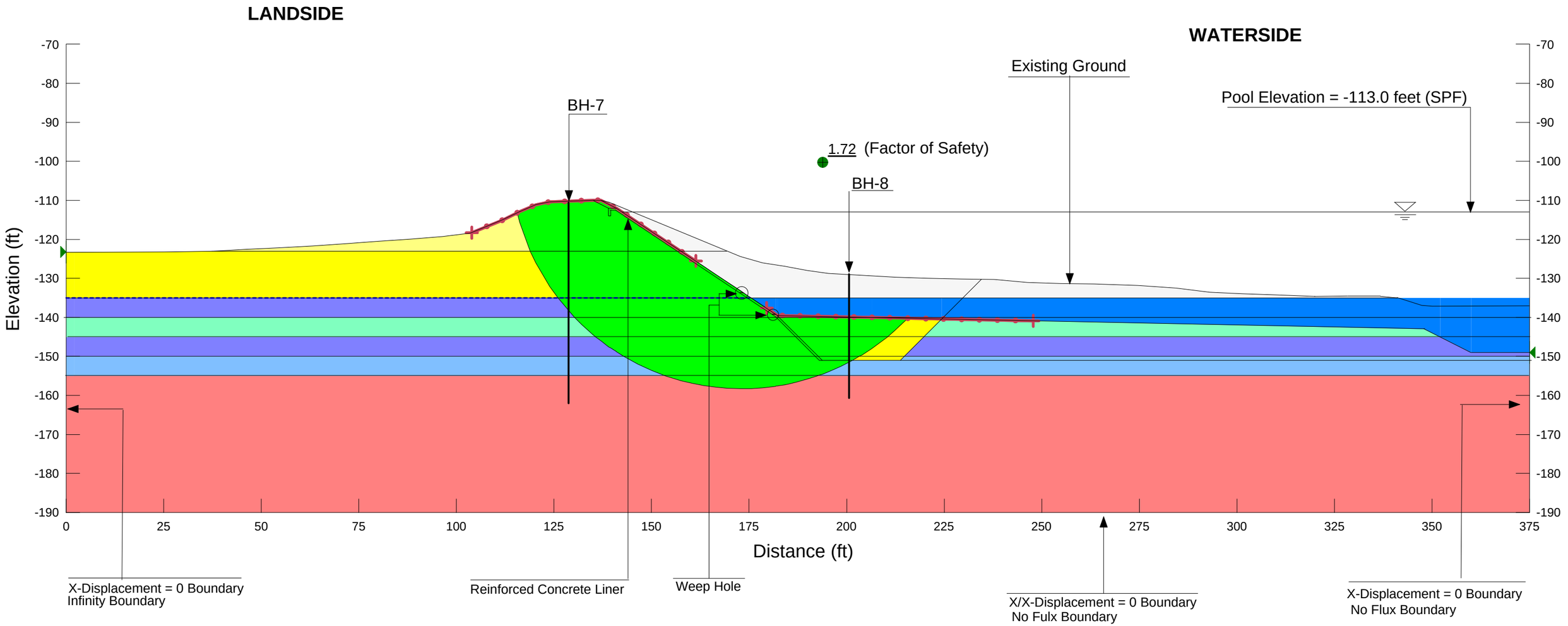
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-2.11

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - SIDE LINER

(POST-EARTHQUAKE CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

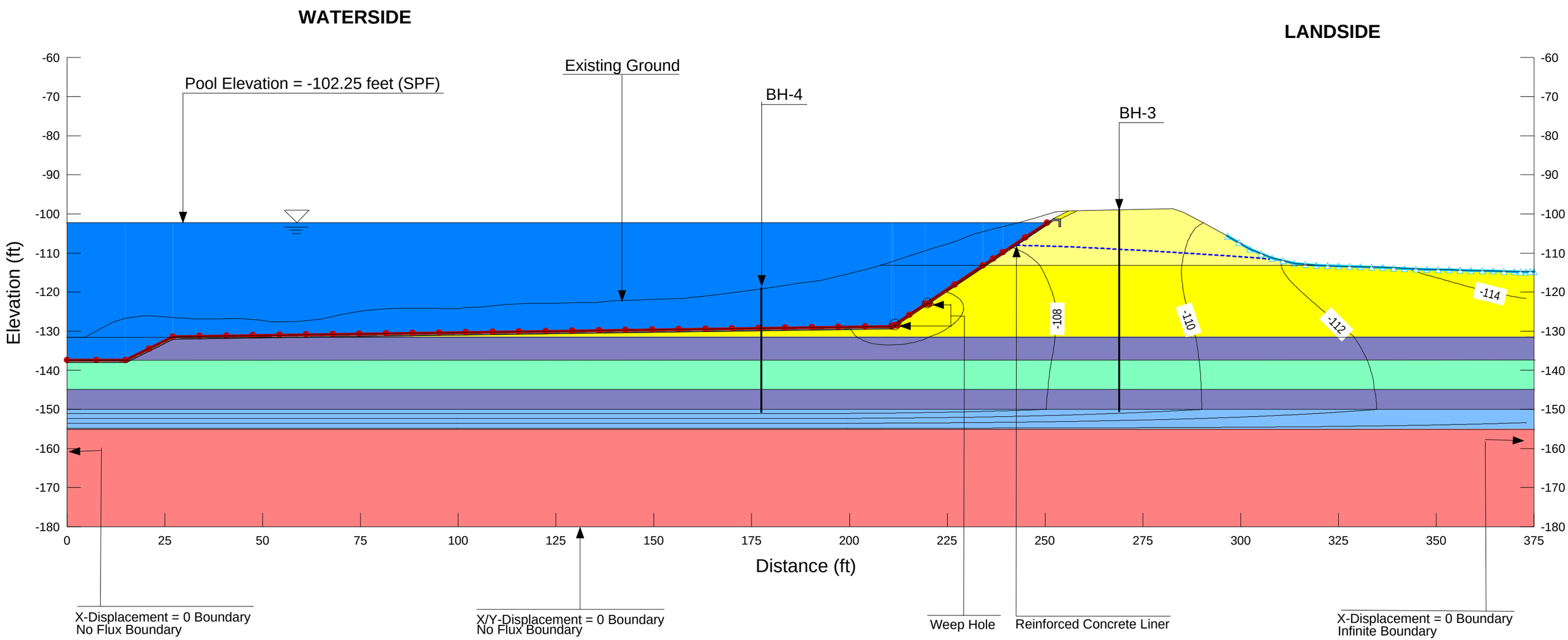
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PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE D-2.12

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF SEEPAGE ANALYSIS - STANDARD PROJECT FOOD (SPF) EVENT

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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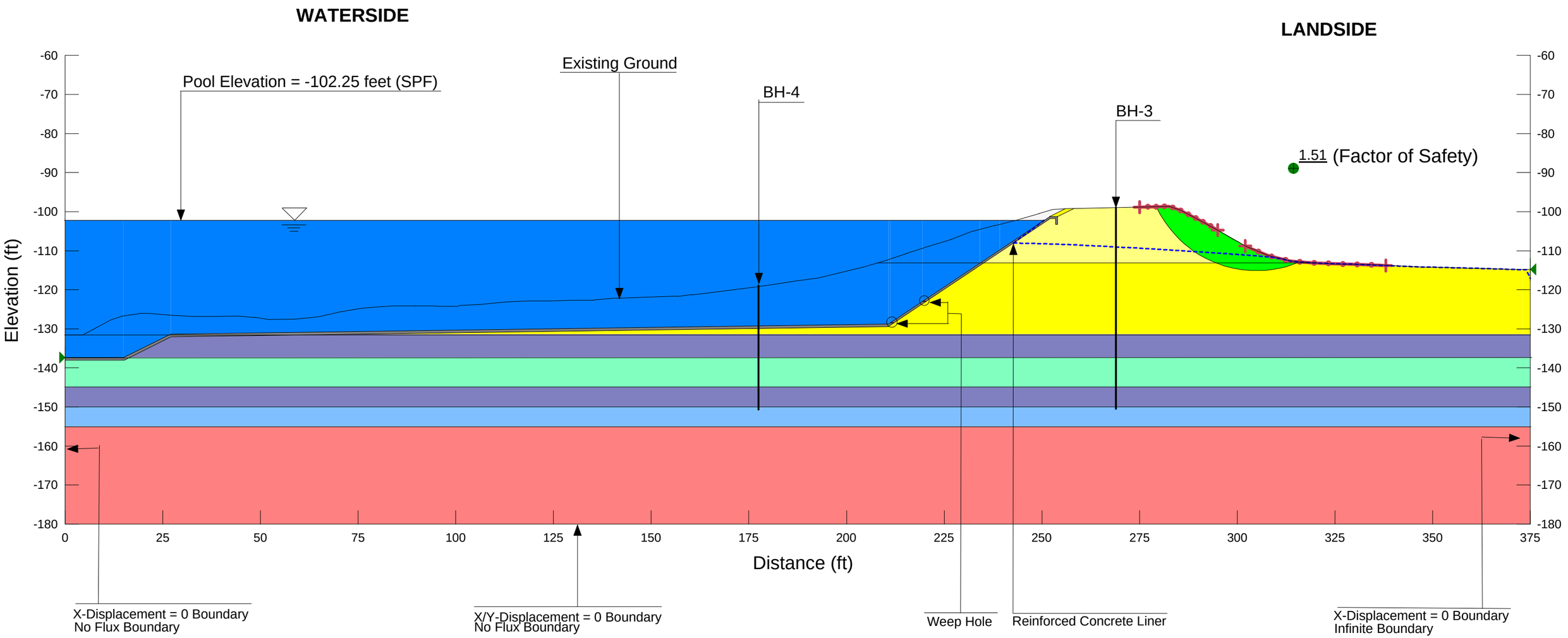
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-3.1

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(STATIC CONDITION, STANDARD PROJECT FLOOD (SPF) EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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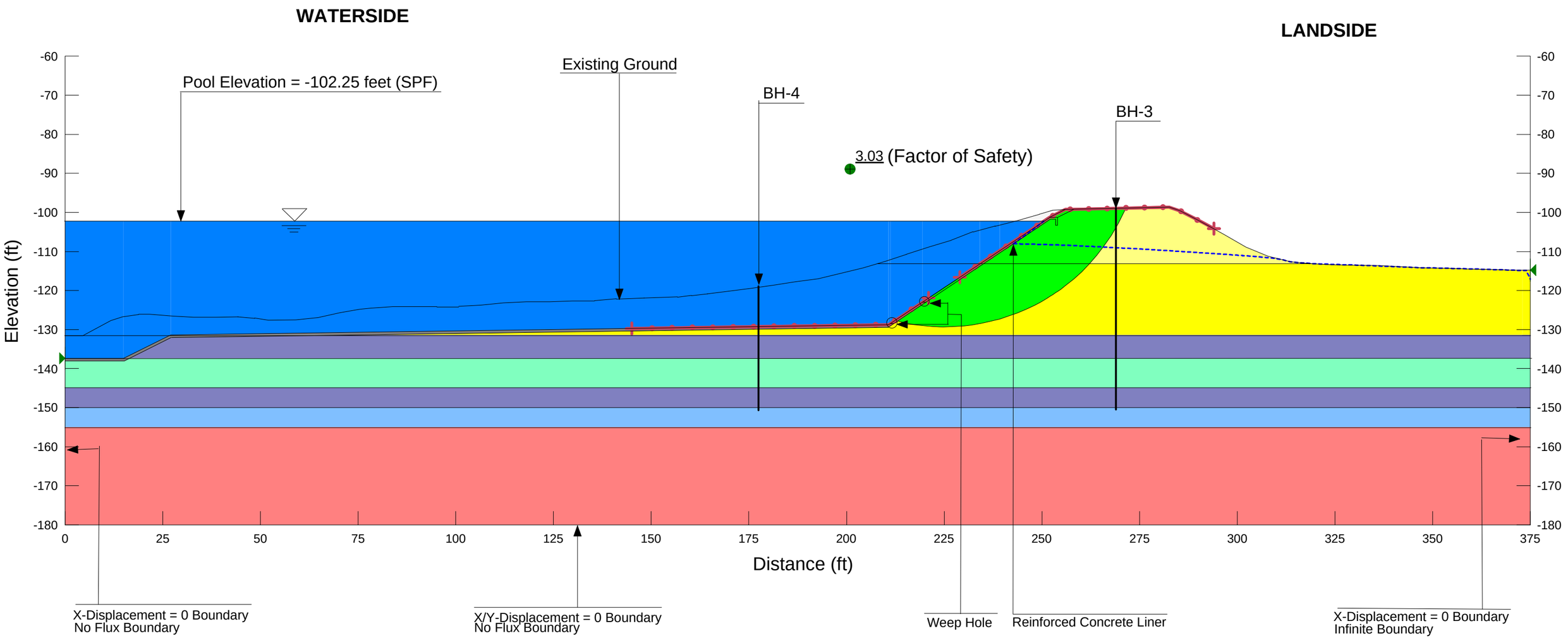
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-3.2

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(STATIC CONDITION, STANDARD PROJECT FLOOD (SPF) EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

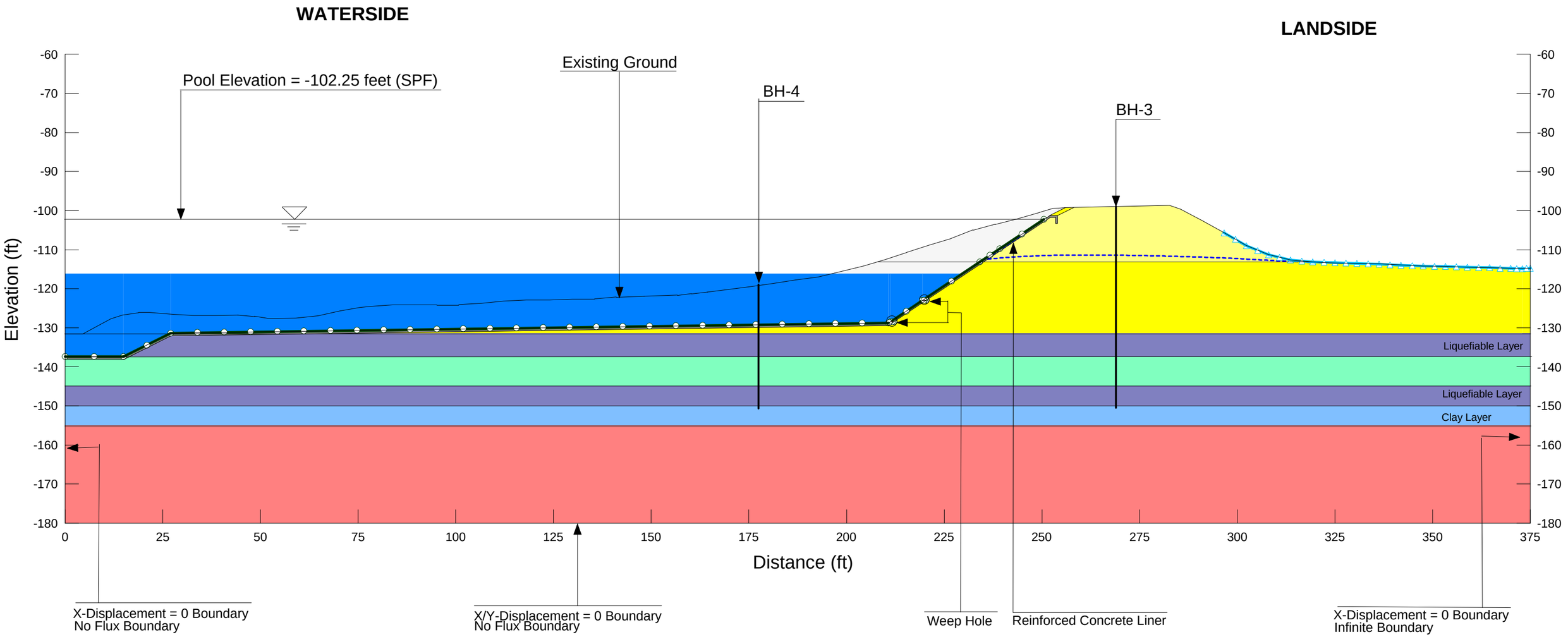
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-3.3

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF TRANSIENT SEEPAGE ANALYSIS

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(T = 4 h, STANDARD PROJECT FLOOD (SPF) EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
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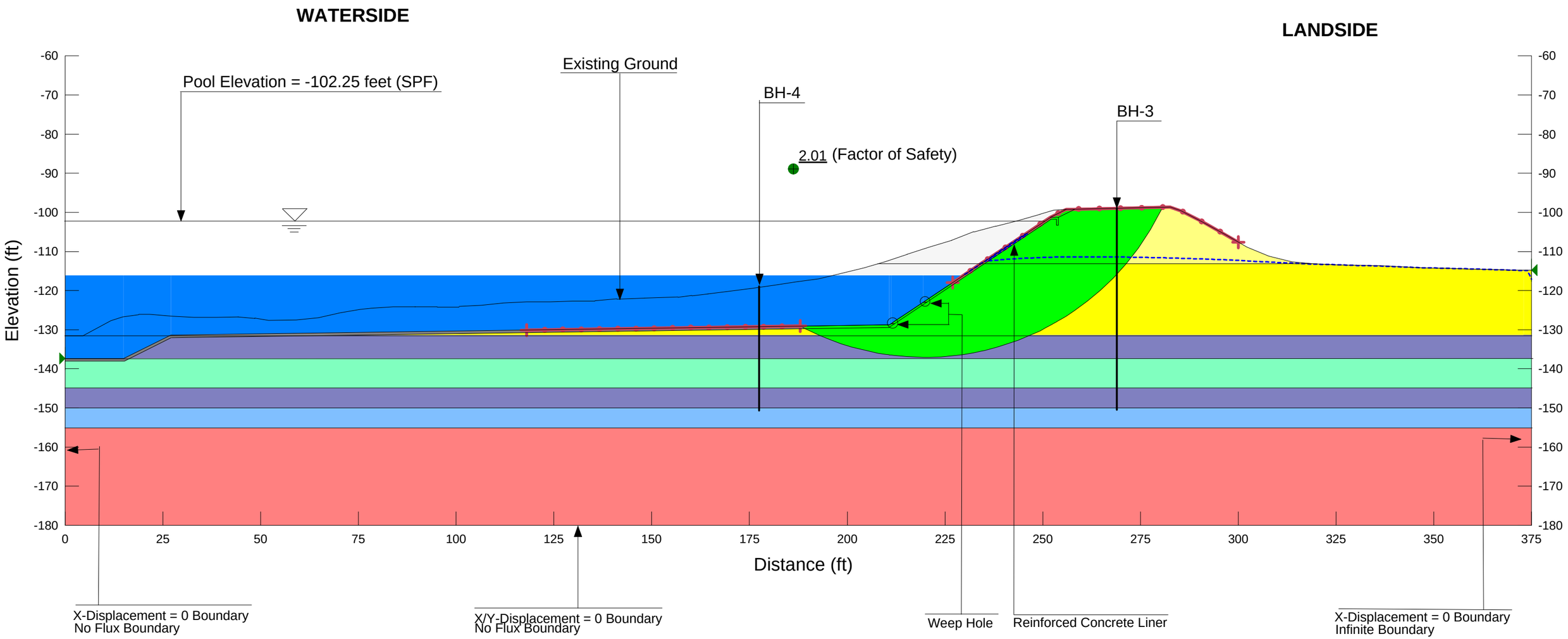
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-3.4

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(RAPID DRAWDOWN CONDITION, T = 4 h, STANDARD PROJECT FLOOD (SPF) EVENT)



SCALE: 1" = 25'

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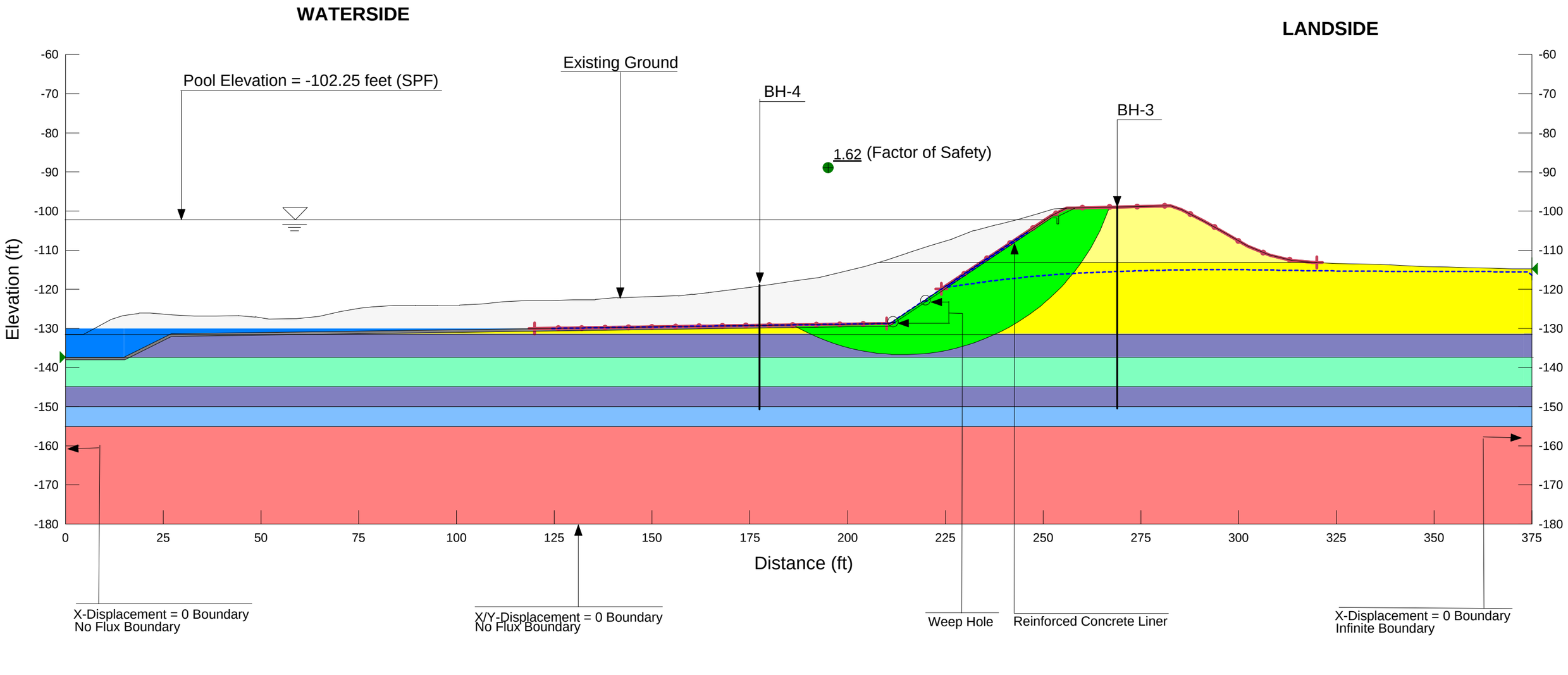
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-3.5

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(RAPID DRAWDOWN CONDITION, T = 8 h, STANDARD PROJECT FLOOD (SPF) EVENT)



SCALE: 1" = 25'

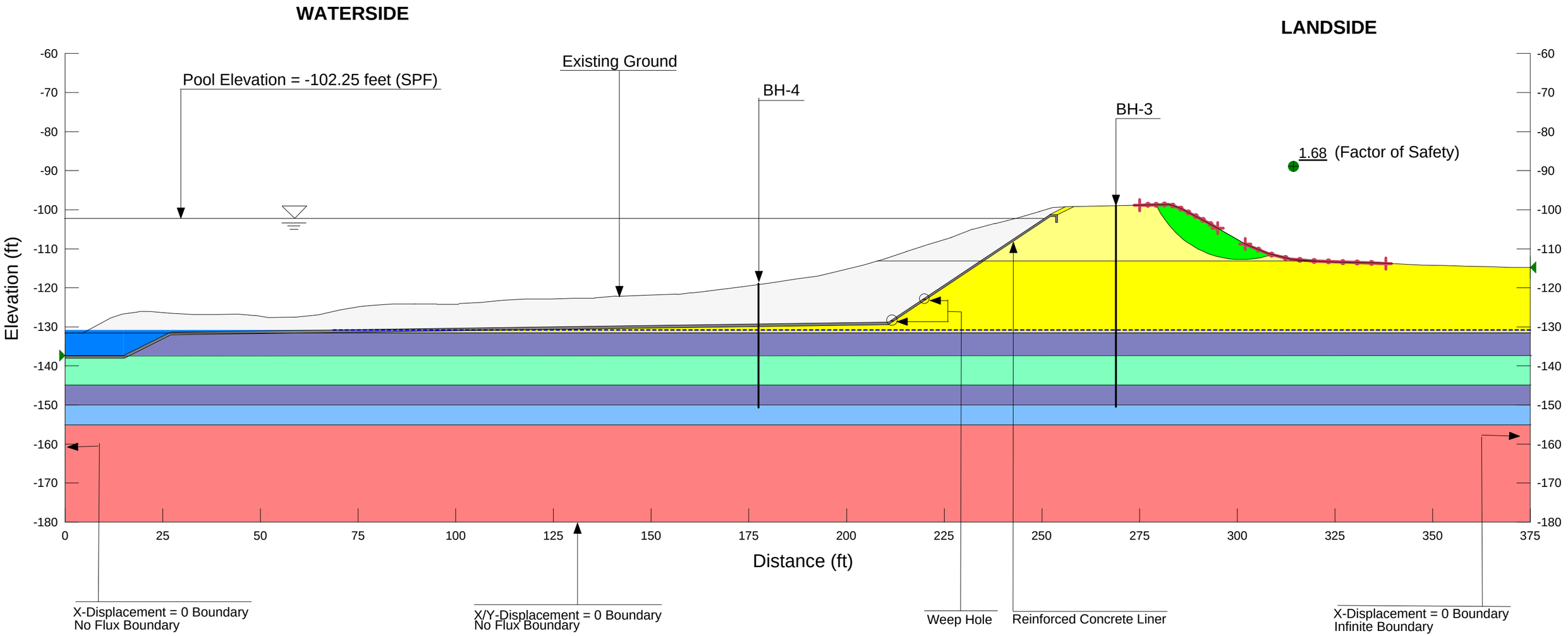
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-3.6

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER
(STATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

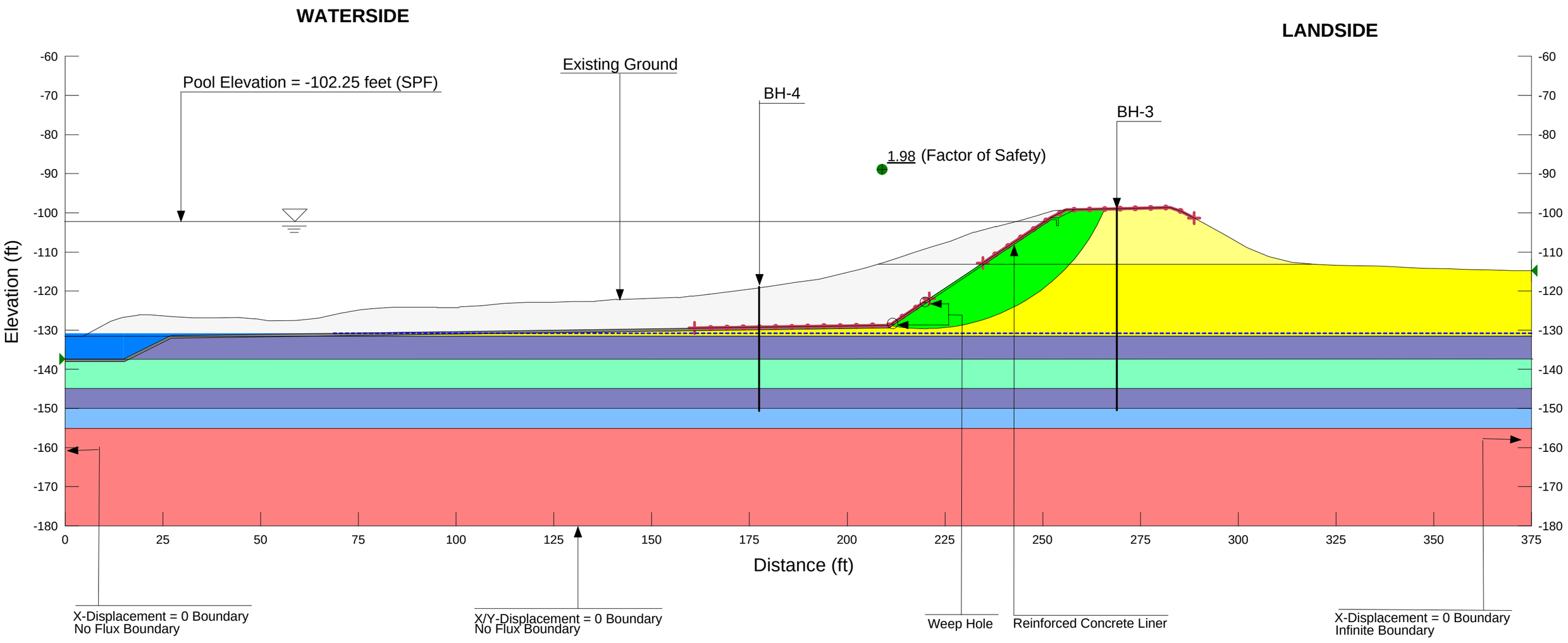
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(STATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

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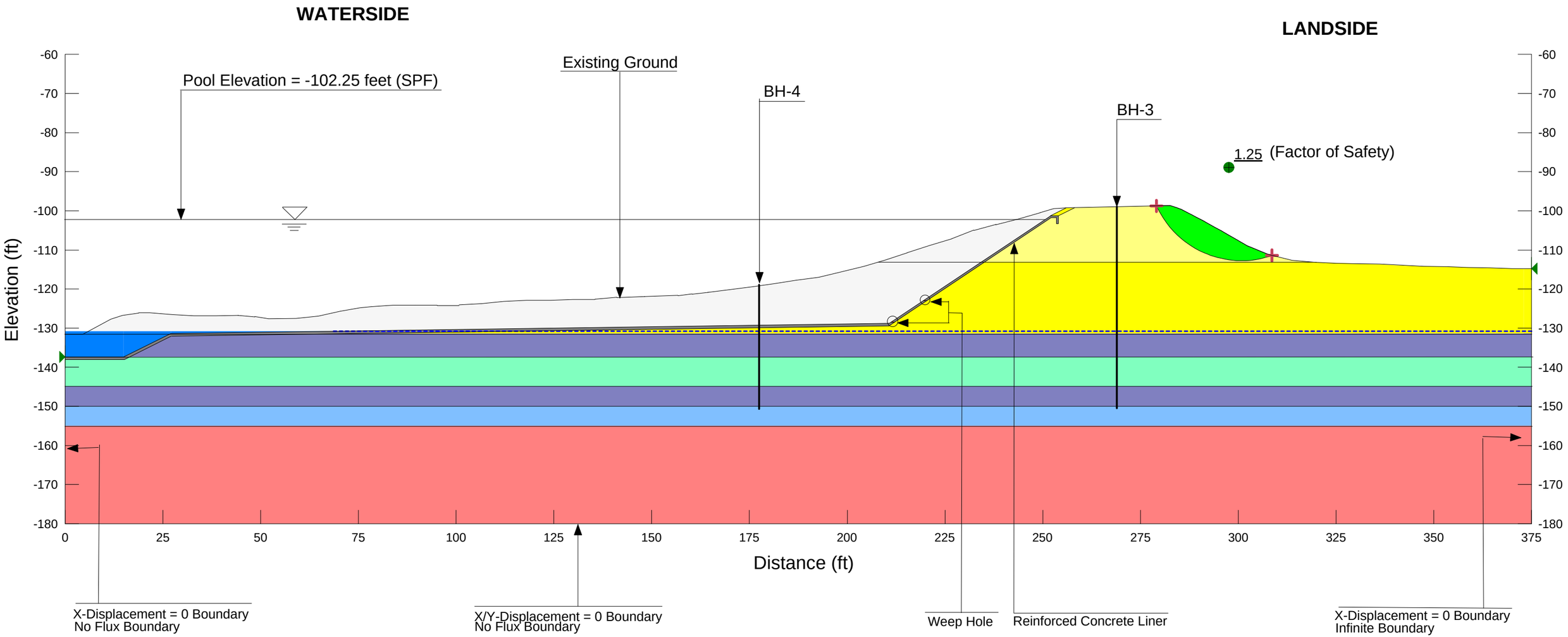
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-3.8

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(PSEUDOSTATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

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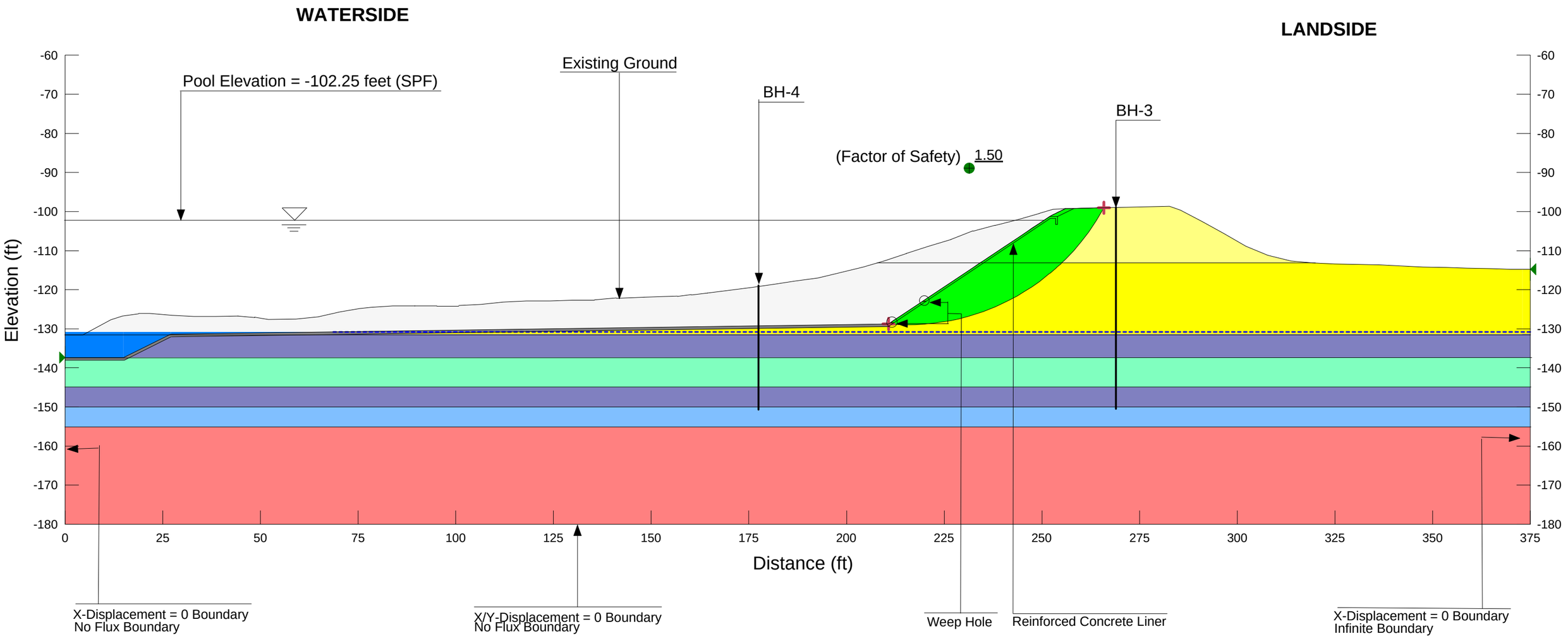
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-3.9

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(PSEUDOSTATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

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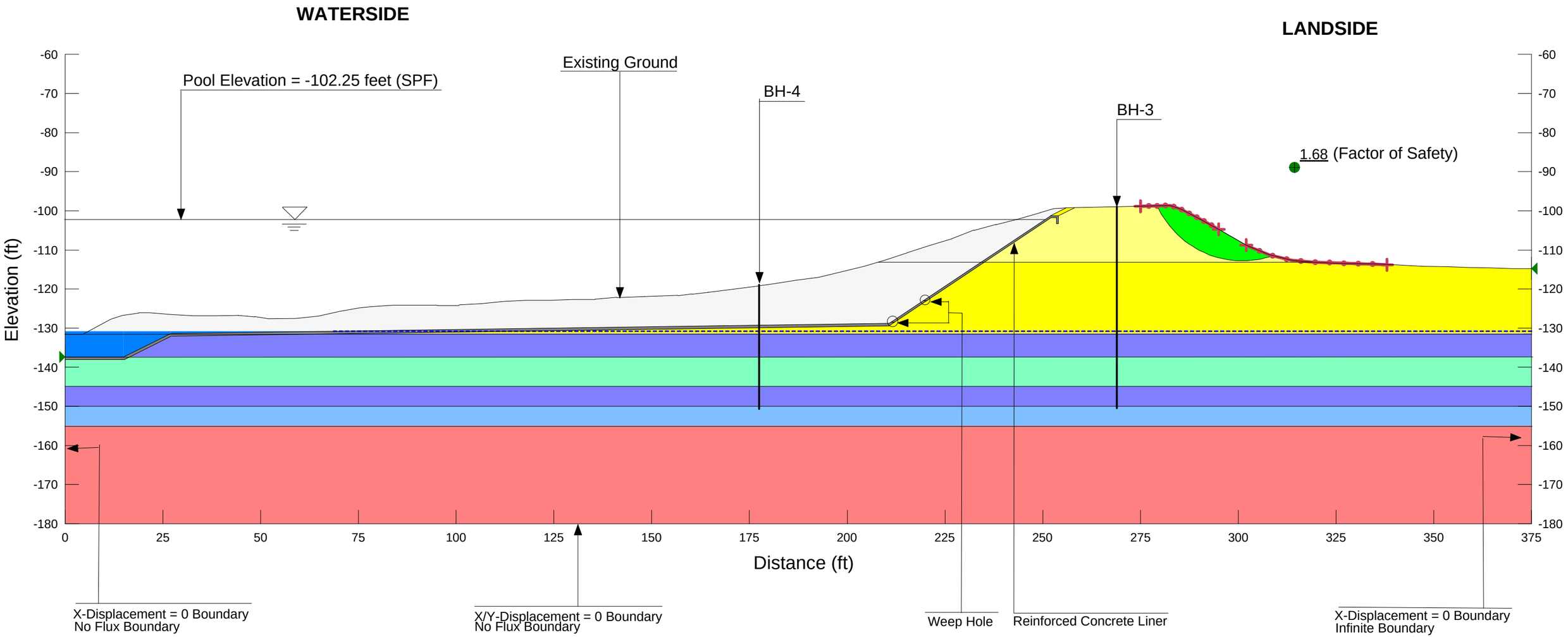
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-3.10

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(POST-EARTHQUAKE CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

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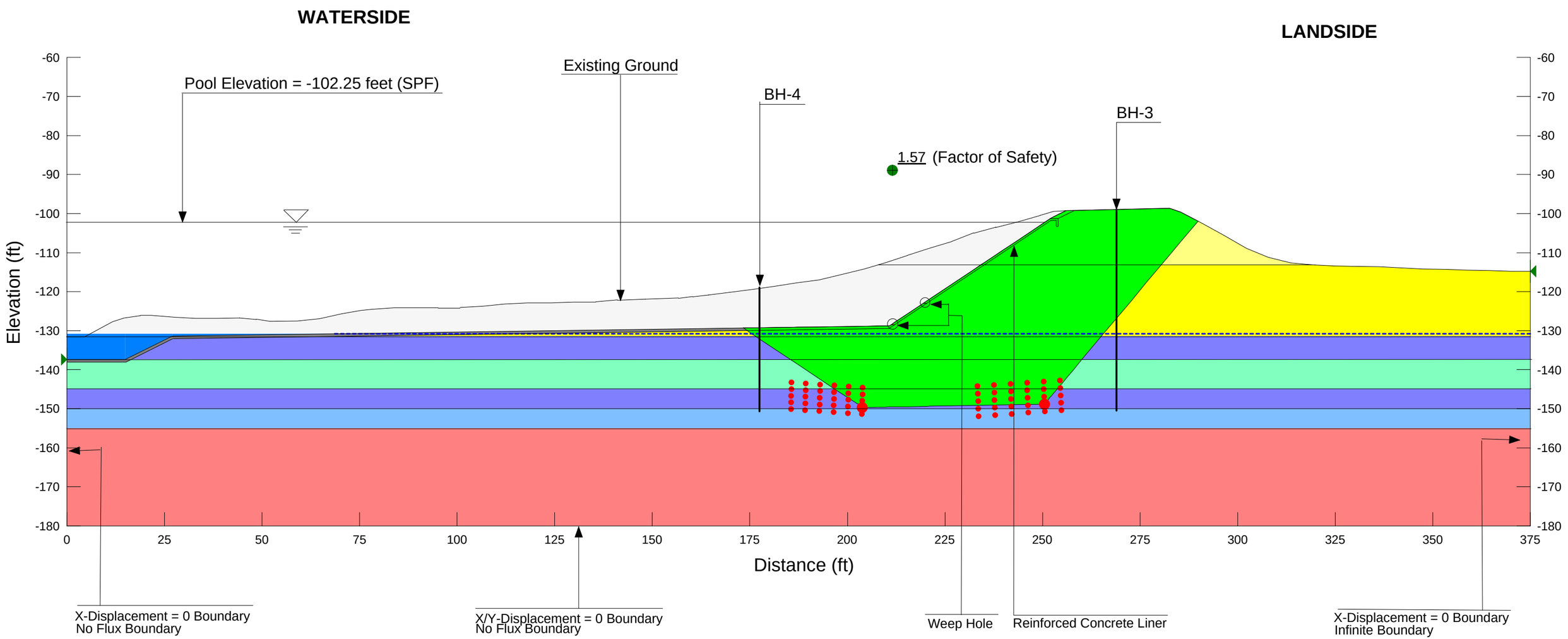
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-3.11

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 640+50 (EAST SIDE LEVEE) - TRAPEZOIDAL LINER

(POST-EARTHQUAKE CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

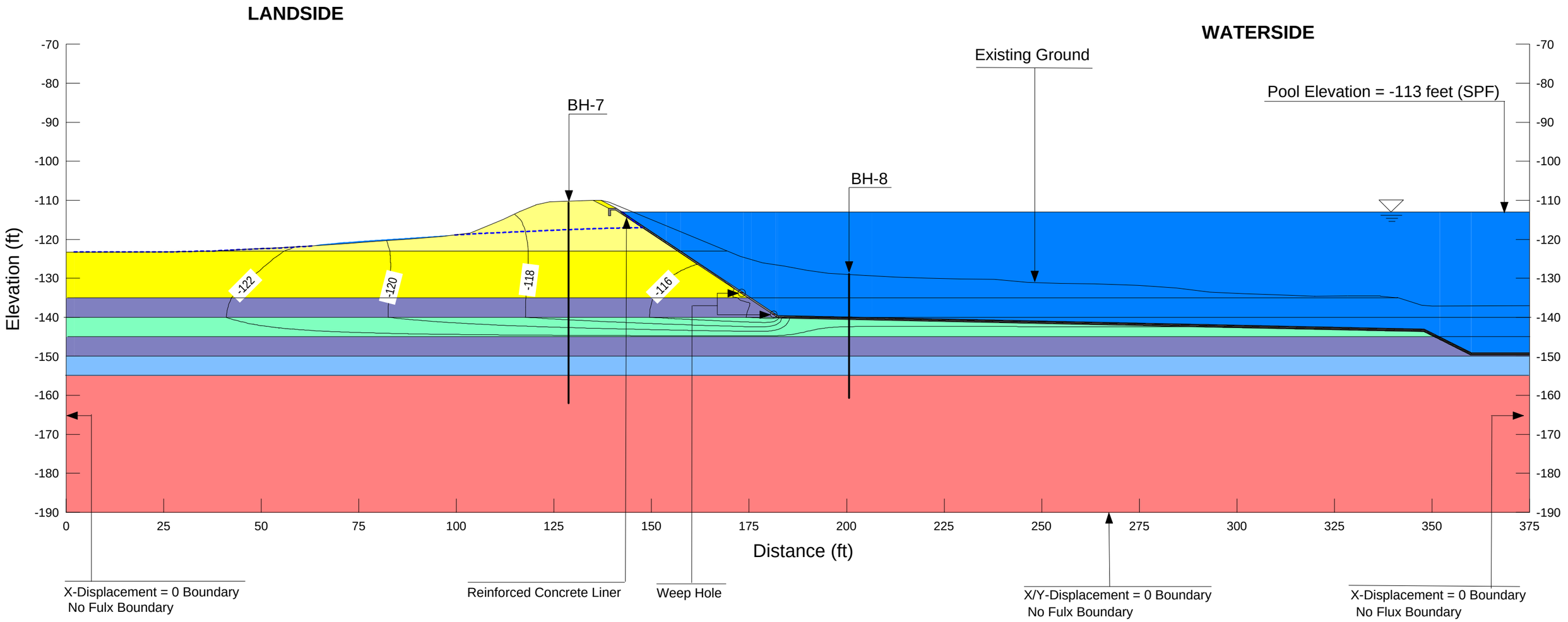
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-3.12

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF SEEPAGE ANALYSIS - STANDARD PROJECT FLOOD (SPF) EVENT

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

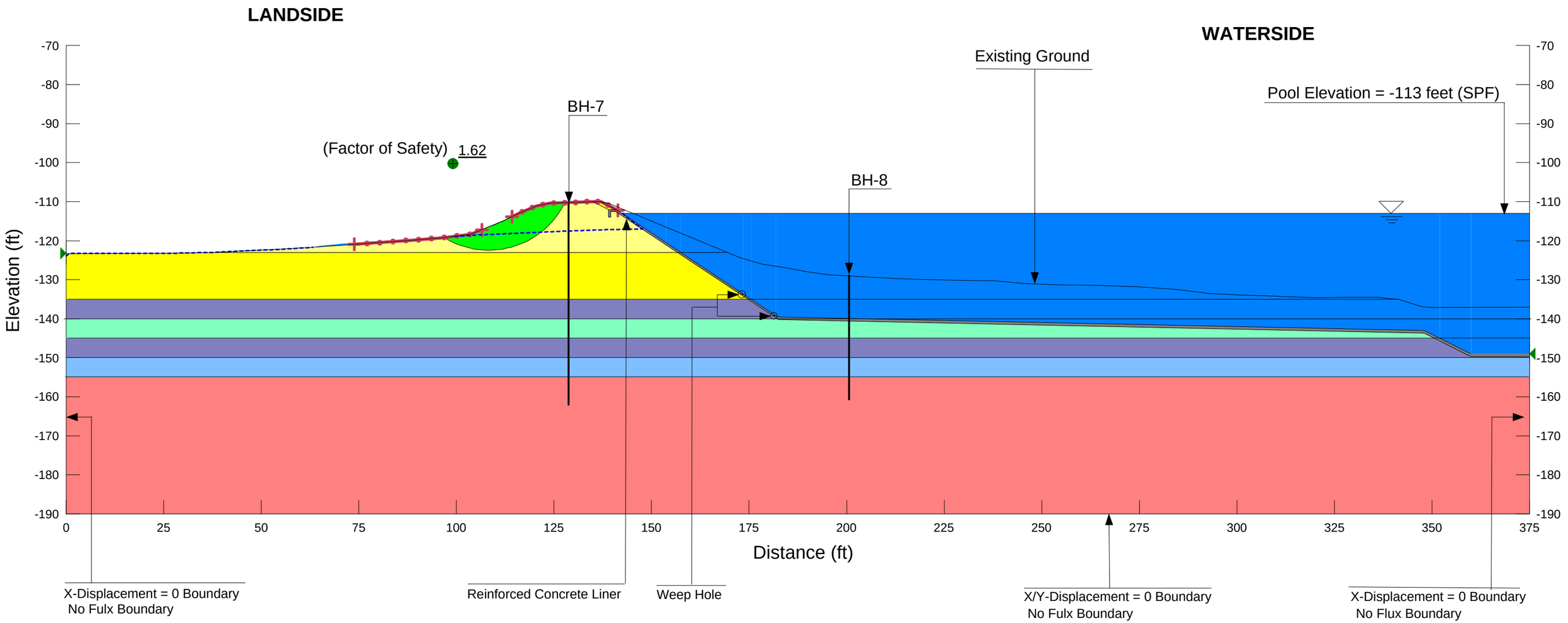
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC | MARCH 22, 2016 | FIGURE E-4.1

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

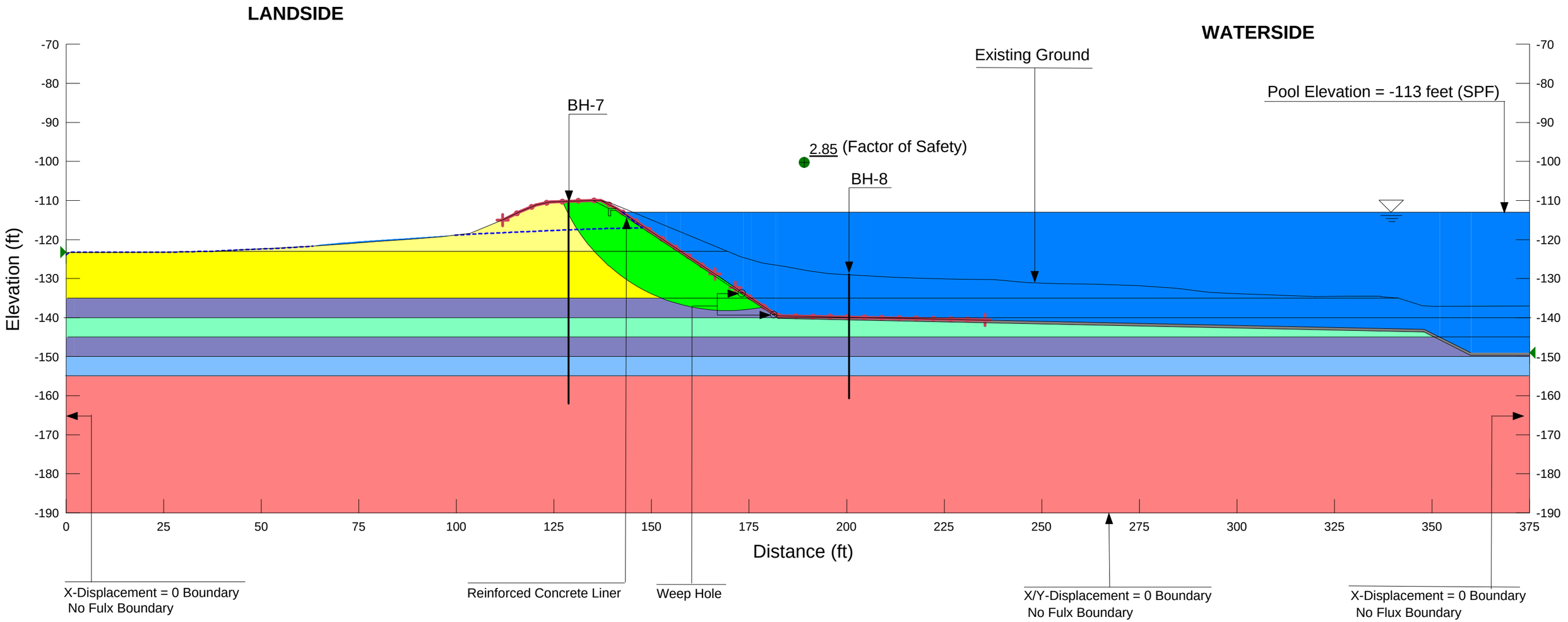
GENTERRA CONSULTANTS, INC.
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PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-4.2

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

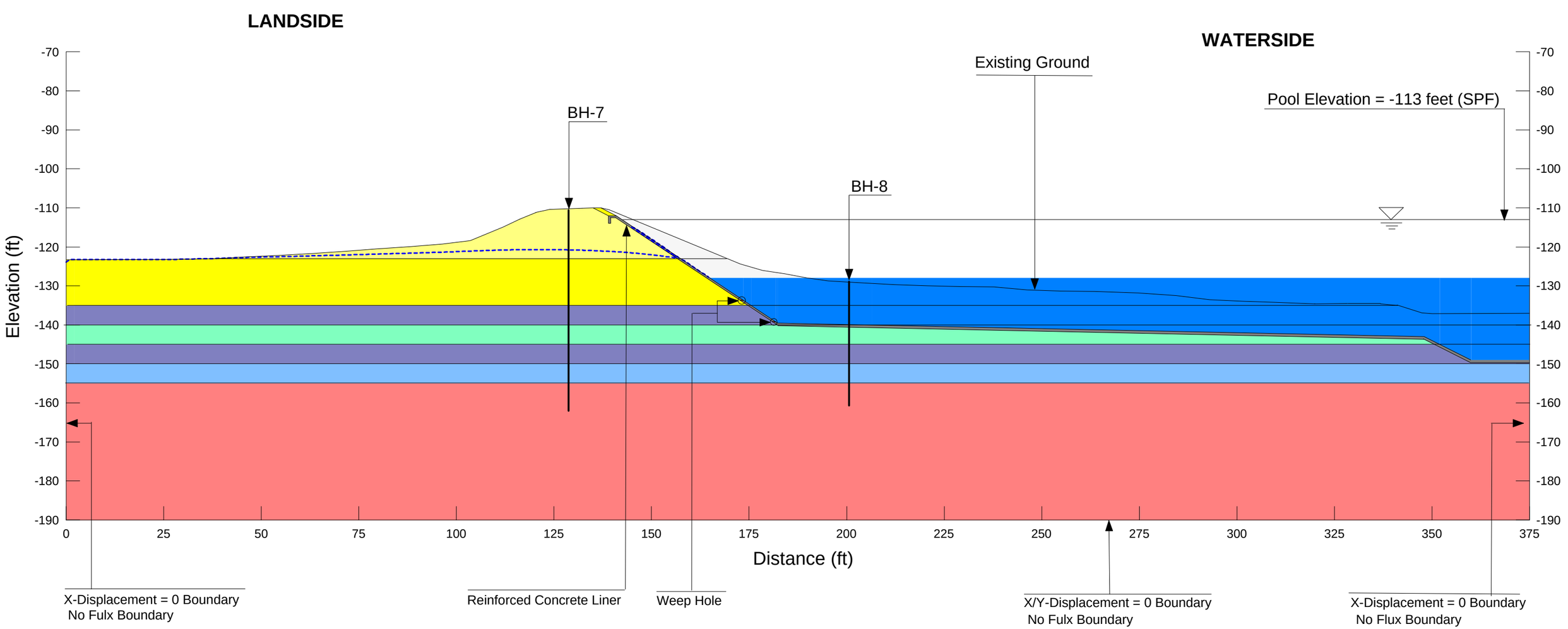
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-4.3

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULTS OF TRANSIENT SEEPAGE ANALYSIS

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER

(RAPID DRAWDOWN CONDITION, T = 4 h, STANDARD PROJECT FLOOD (SPF) EVENT)



SCALE: 1" = 25'

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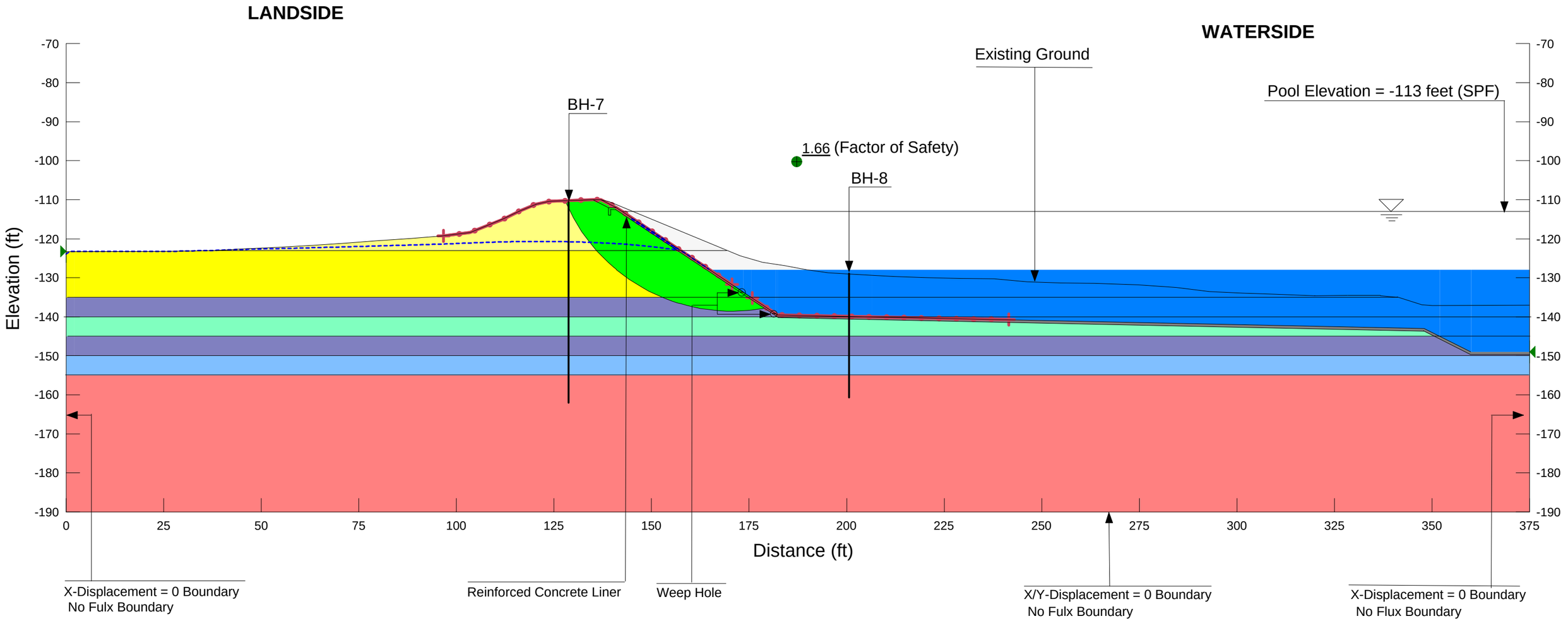
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-4.4

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER

(RAPID DRAWDOWN CONDITION, T = 4 h, STANDARD PROJECT FLOOD (SPF) EVENT)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC

MARCH 22, 2016

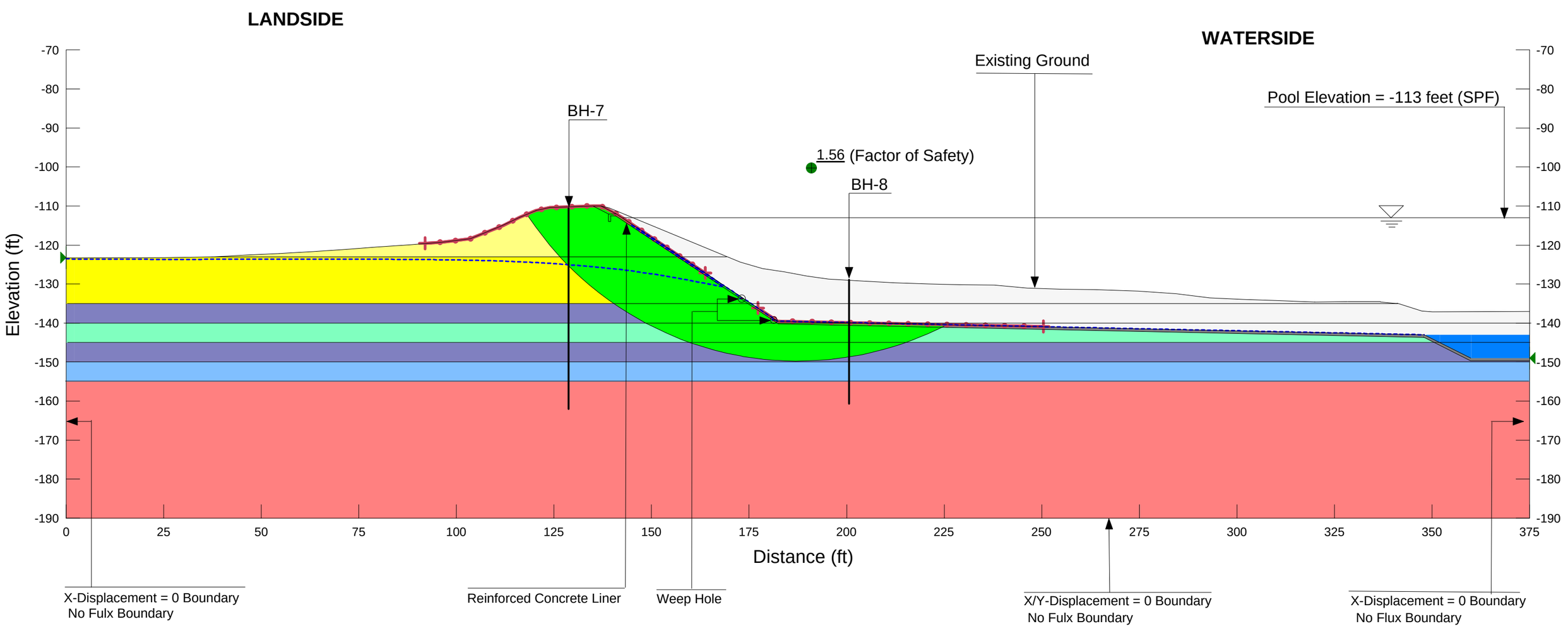
FIGURE E-4.5

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER

(RAPID DRAWDOWN CONDITION, T = 8 h, STANDARD PROJECT FLOOD (SPF) EVENT)



SCALE: 1" = 25'

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PROJECT No. 393-PB-CVSC

MARCH 22, 2016

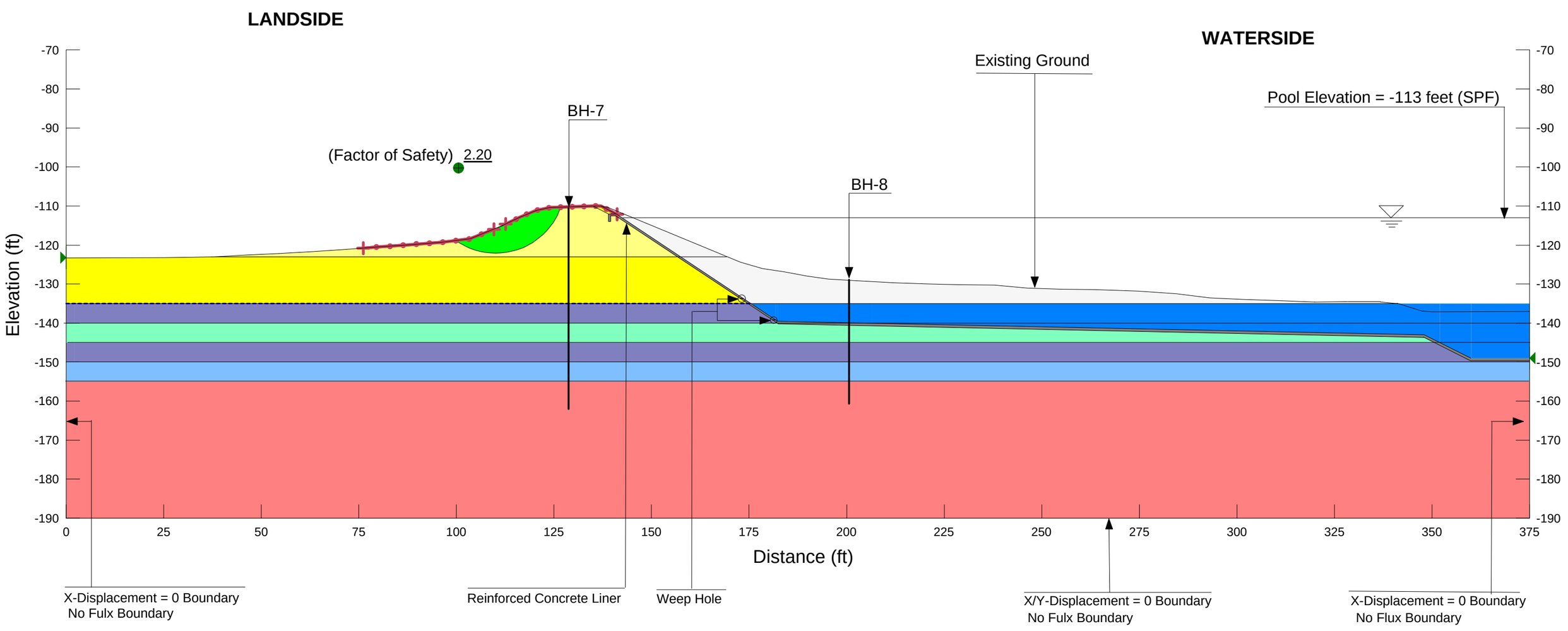
FIGURE E-4.6

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER

(STATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

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PROJECT No. 393-PB-CVSC

MARCH 22, 2016

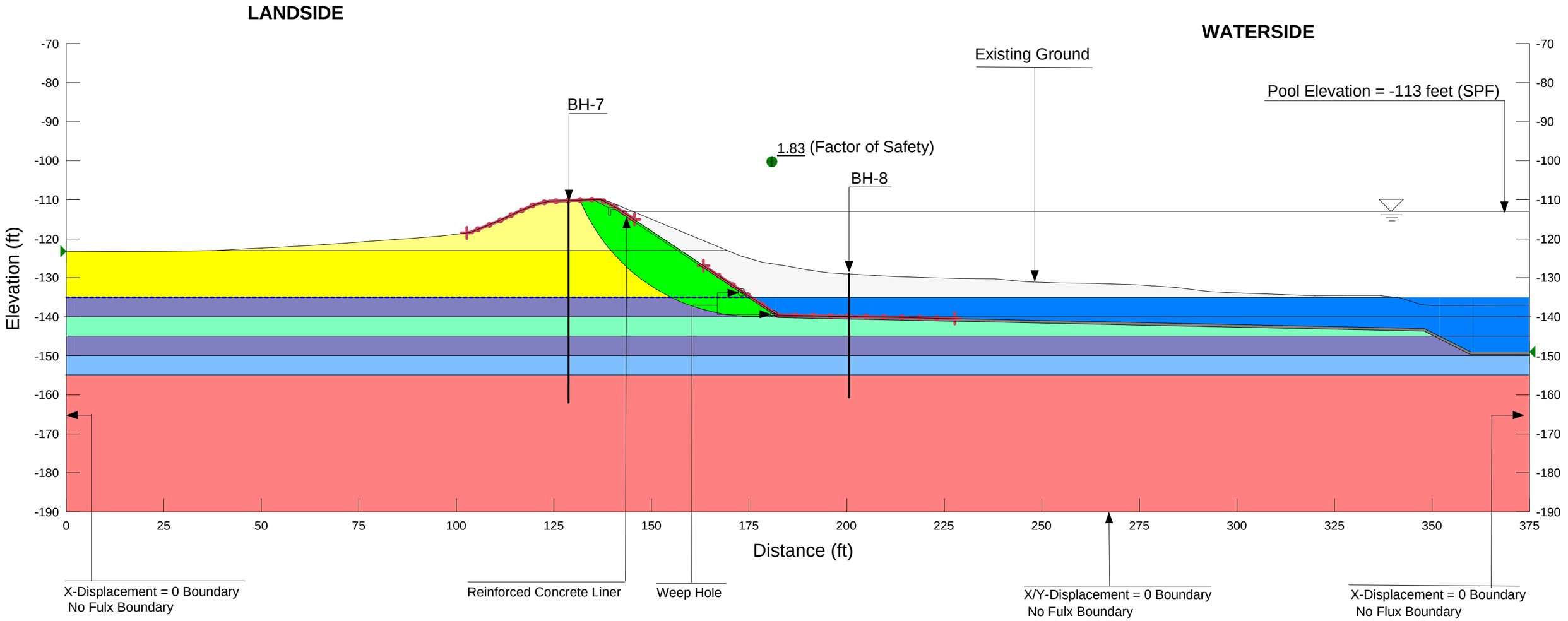
FIGURE E-4.7

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER

(STATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC

MARCH 22, 2016

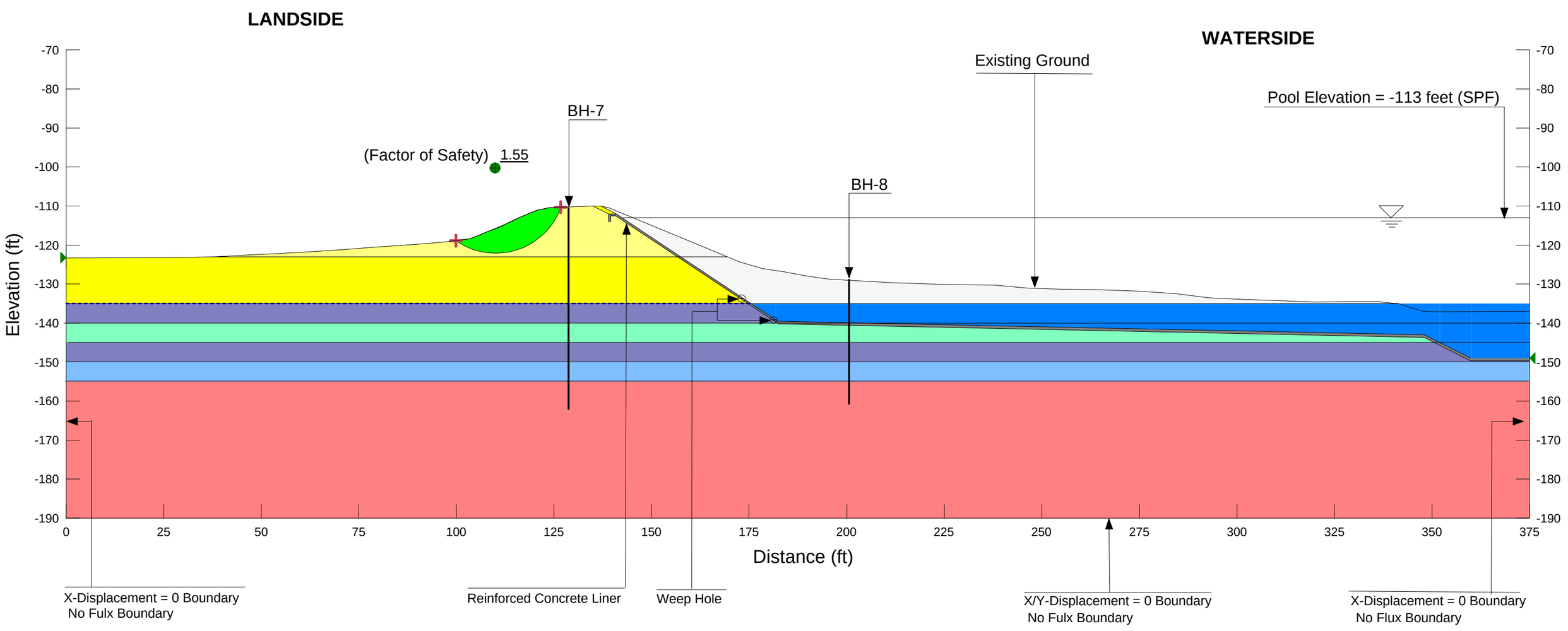
FIGURE E-4.8

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER

(PSEUDOSTATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

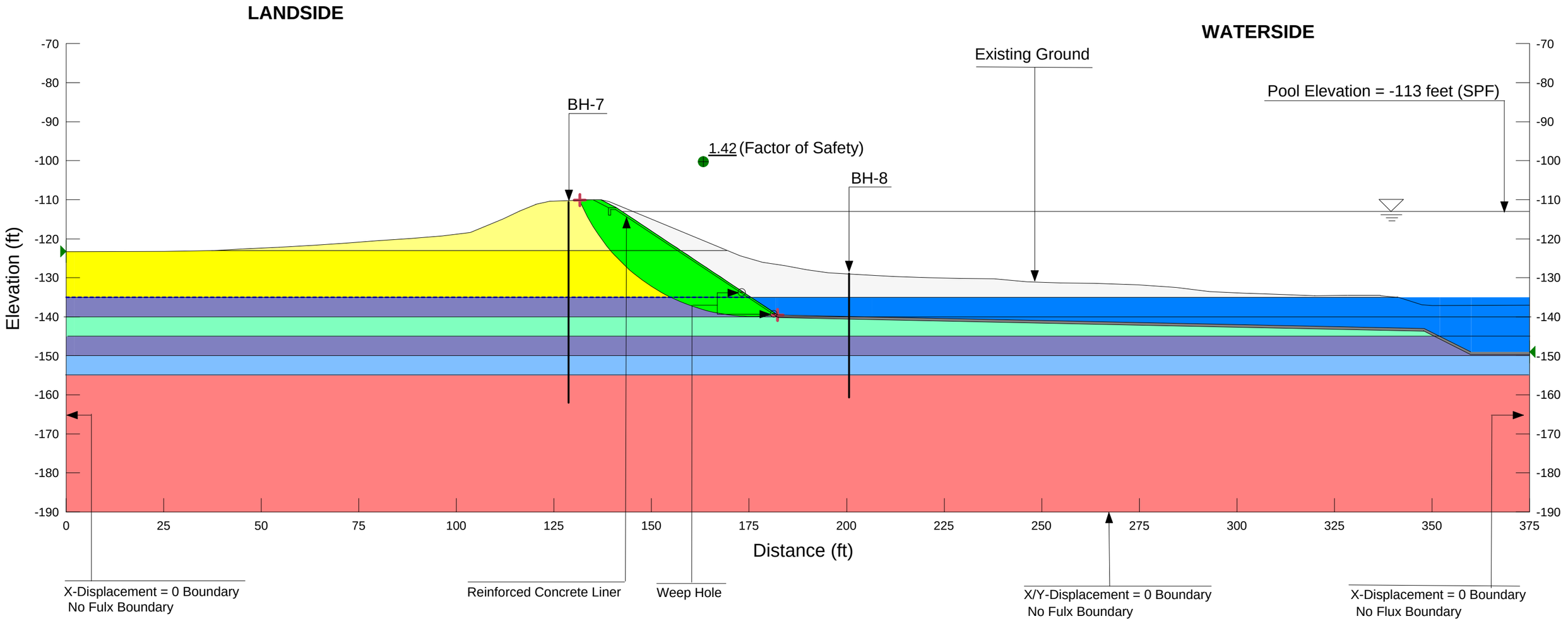
GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER

(PSEUDOSTATIC CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

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PROJECT No. 393-PB-CVSC

MARCH 22, 2016

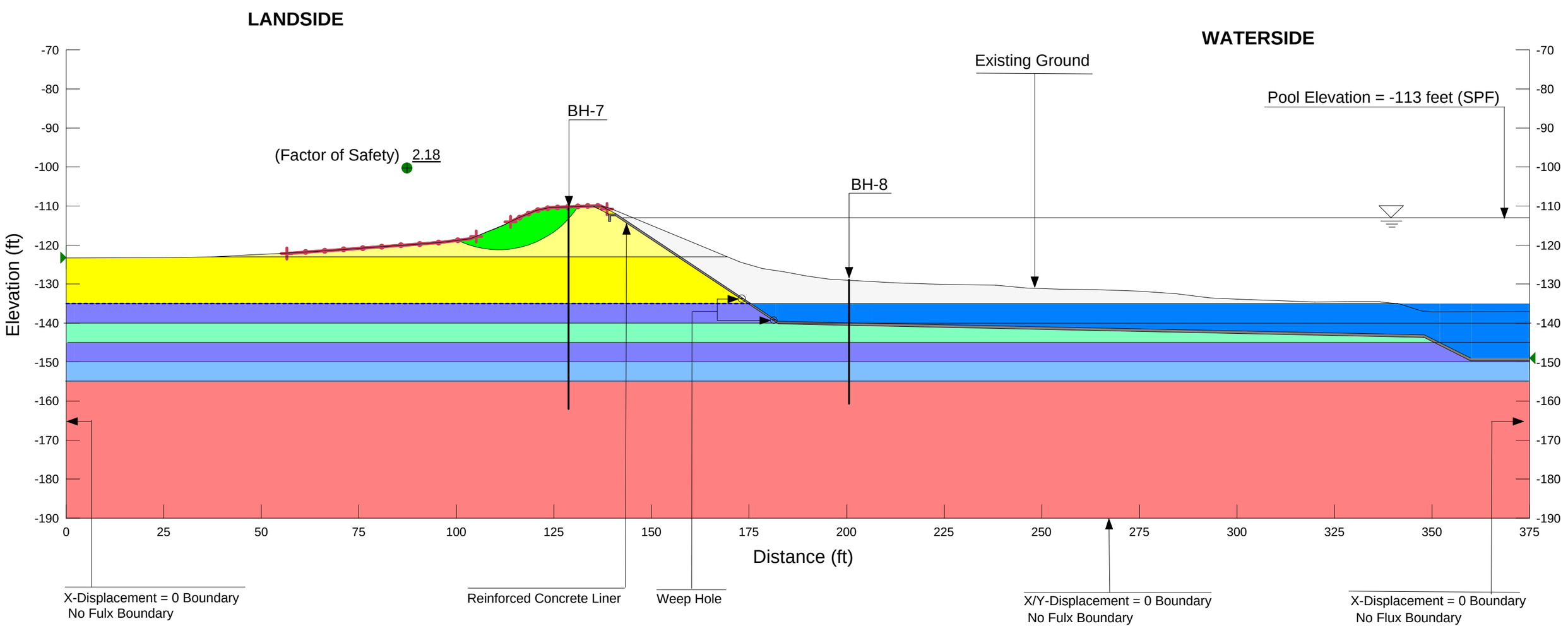
FIGURE E-4.10

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - DOWNSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER

(POST-EARTHQUAKE CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

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ENGINEERING & GEOTECHNICAL SERVICES

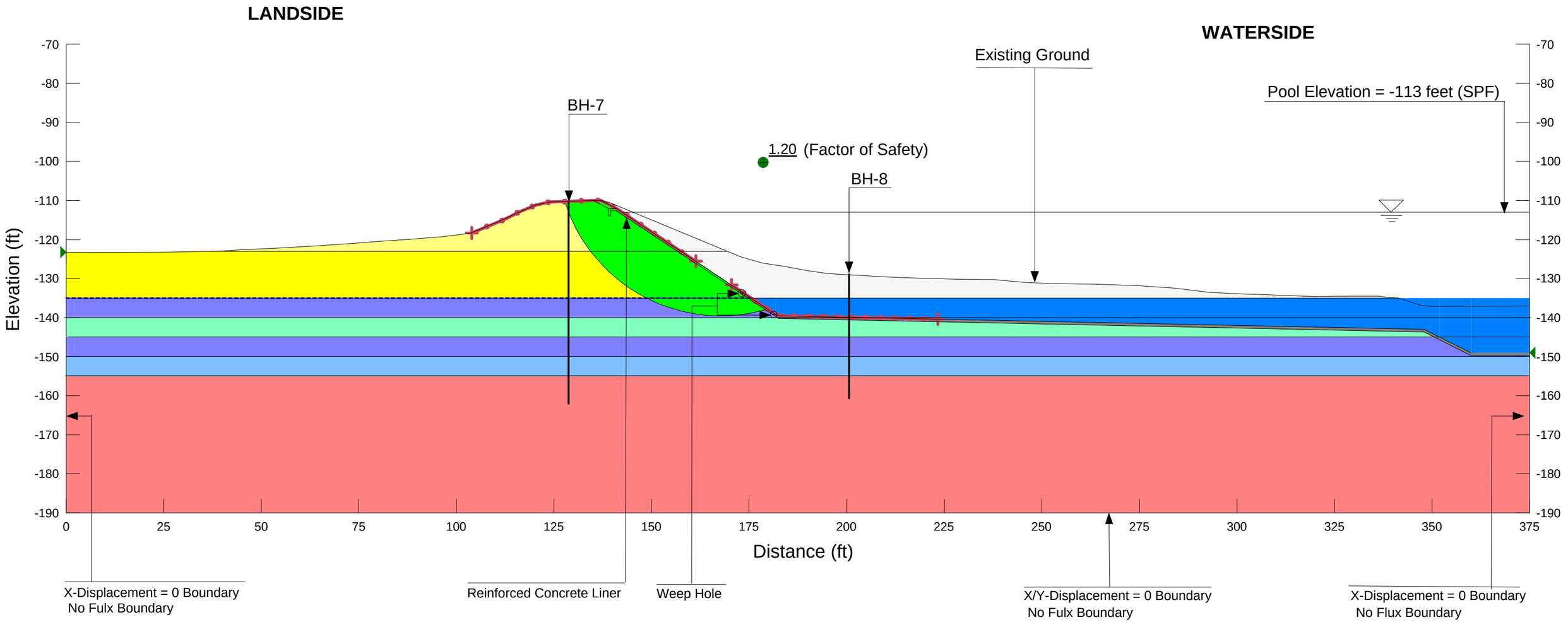
PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-4.11

STORMWATER CHANNEL LEVEE BETWEEN AVENUE 54 AND THERMAL DROP STRUCTURE

RESULT OF SLOPE STABILITY ANALYSIS - UPSTREAM SLOPE

CROSS-SECTION AT STATION 610+50 (WEST SIDE LEVEE) - TRAPEZOIDAL LINER

(POST-EARTHQUAKE CONDITION, REGULAR CHANNEL CONDITION)



SCALE: 1" = 25'

GENTERRA CONSULTANTS, INC.
ENGINEERING & GEOTECHNICAL SERVICES

PROJECT No. 393-PB-CVSC MARCH 22, 2016 FIGURE E-4.12

APPENDIX F

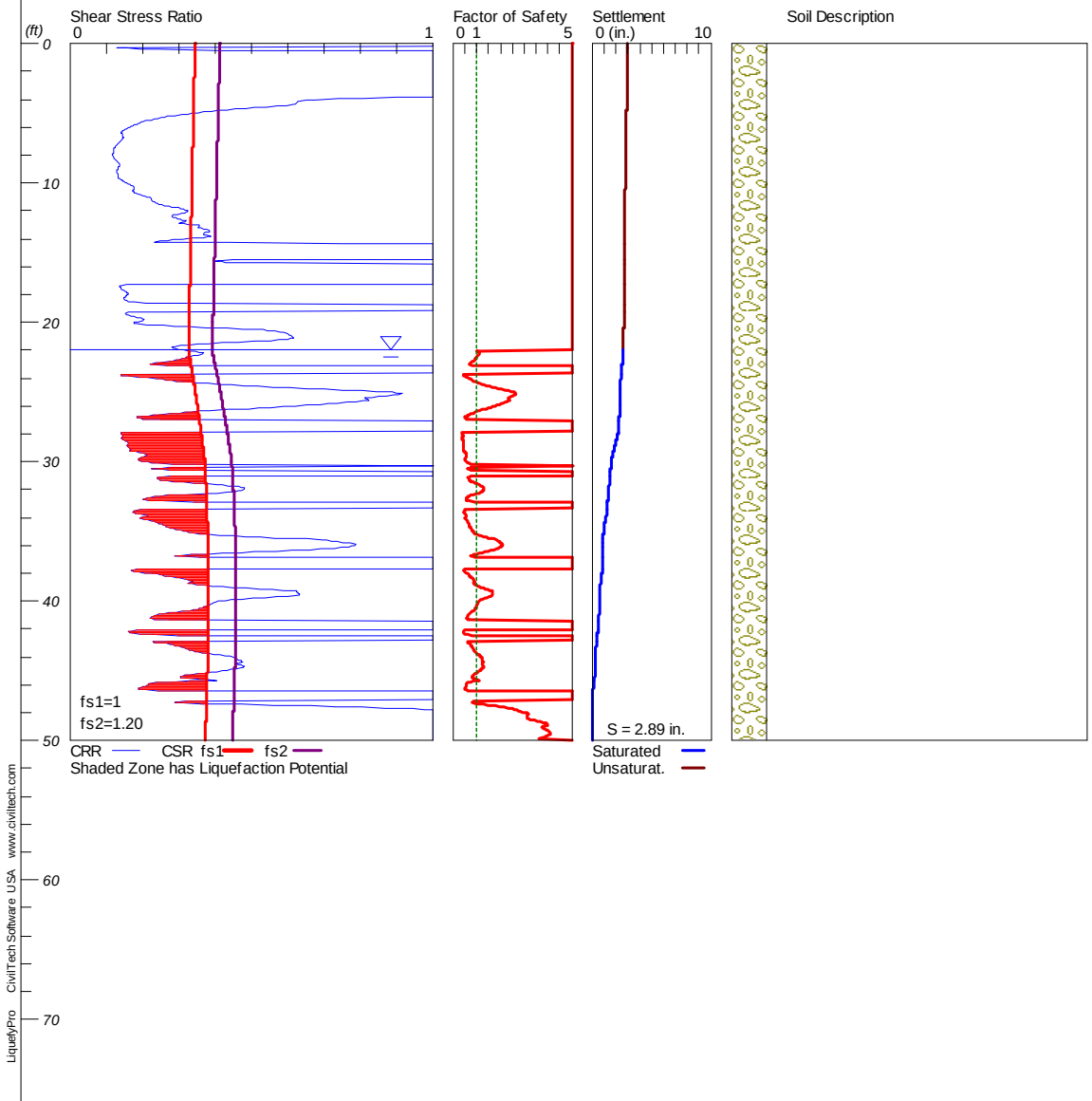
RESULTS OF LIQUEFACTION AND SEISMIC-INDUCED DRY SETTLEMENT

LIQUEFACTION ANALYSIS

393-PB

Hole No.=CPT-1 Water Depth=22 ft

Magnitude=6.93
Acceleration=0.53g



LiquefyPro CivilTech Software USA www.civiltech.com

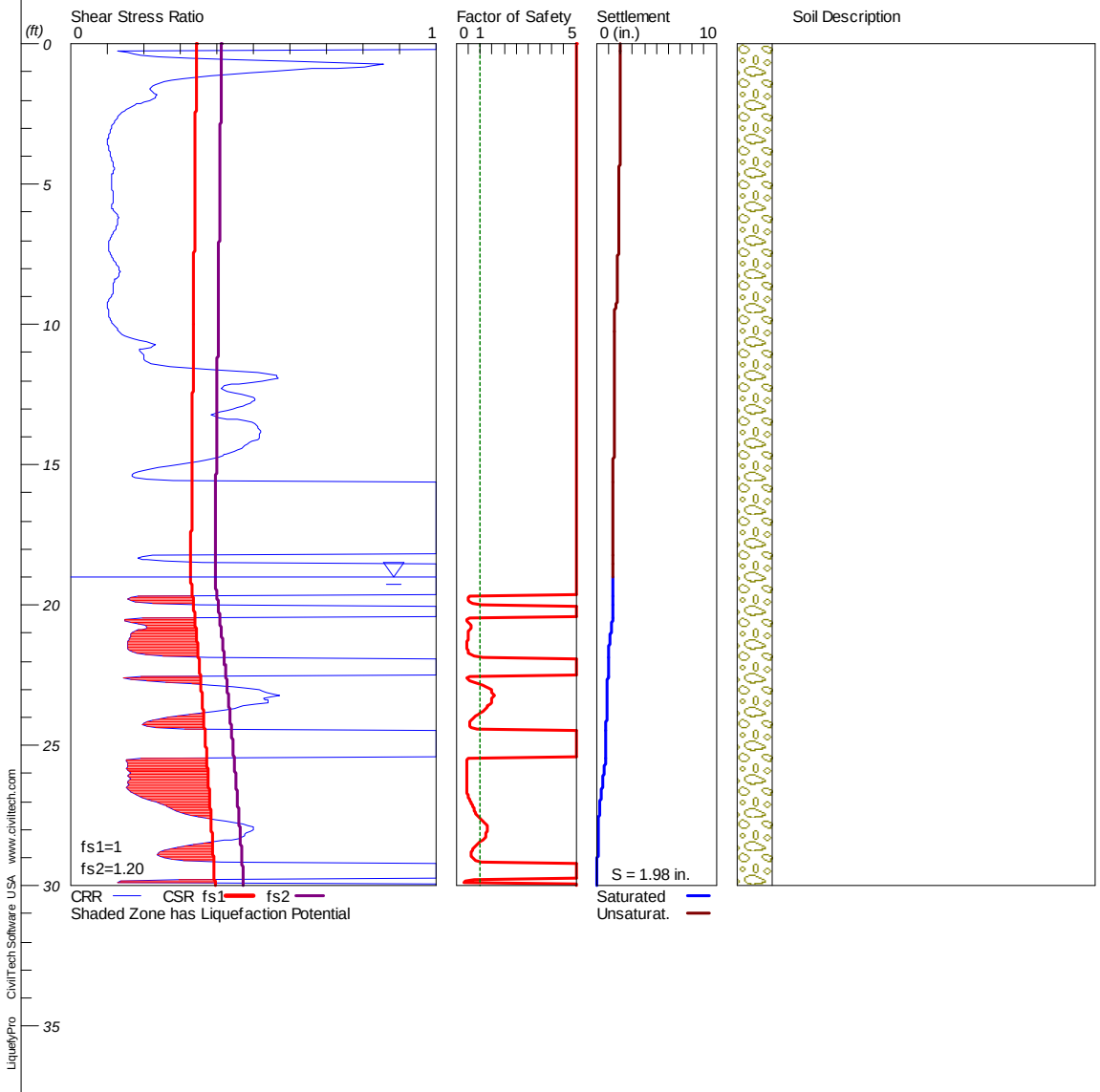
GENTERRA Consultants, Inc. **Stormwater Channel Improvement**

LIQUEFACTION ANALYSIS

393-PB

Hole No.=CPT-2 Water Depth=19 ft

Magnitude=6.93
Acceleration=0.53g



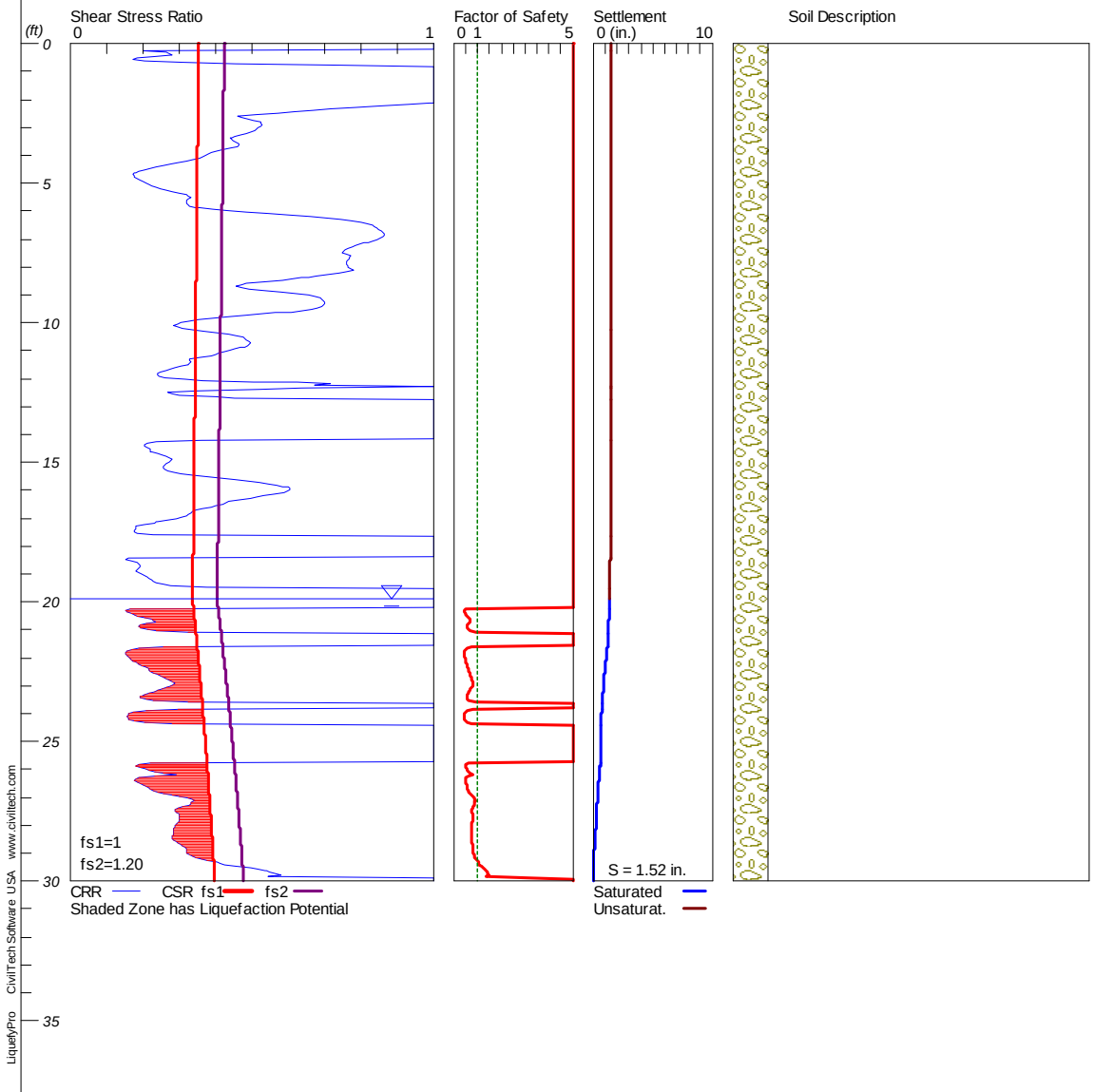
GENTERRA Consultants, Inc. **Stormwater Channel Improvement**

LIQUEFACTION ANALYSIS

393-PB

Hole No.=CPT-3 Water Depth=19.9 ft

Magnitude=6.95
Acceleration=0.544g



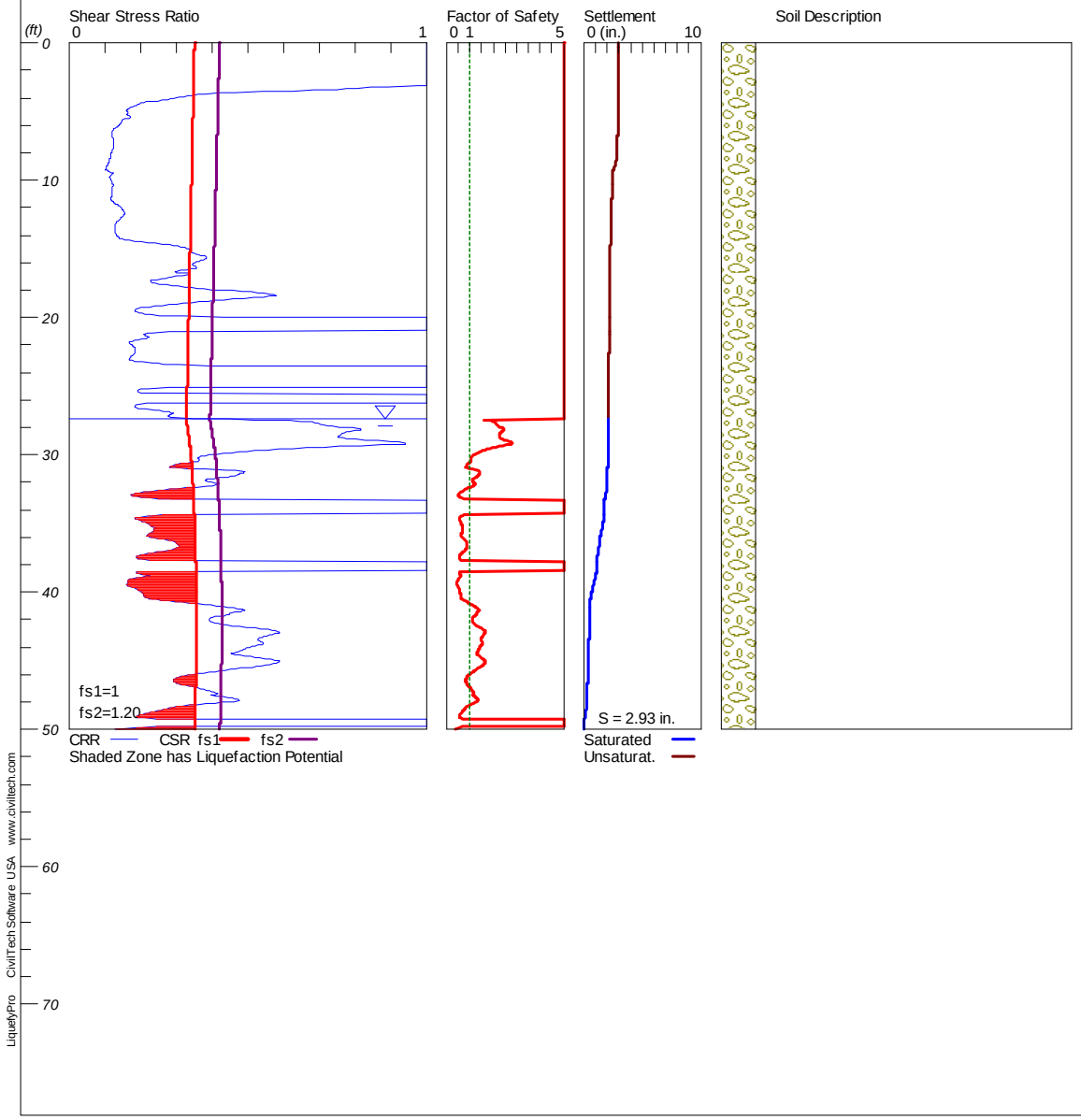
GENTERRA Consultants, Inc. **Stormwater Channel Improvement**

LIQUEFACTION ANALYSIS

393-PB

Hole No.=CPT-5 Water Depth=27.4 ft

Magnitude=6.94
Acceleration=0.54g



LiquefyPro CivilTech Software USA www.civiltech.com

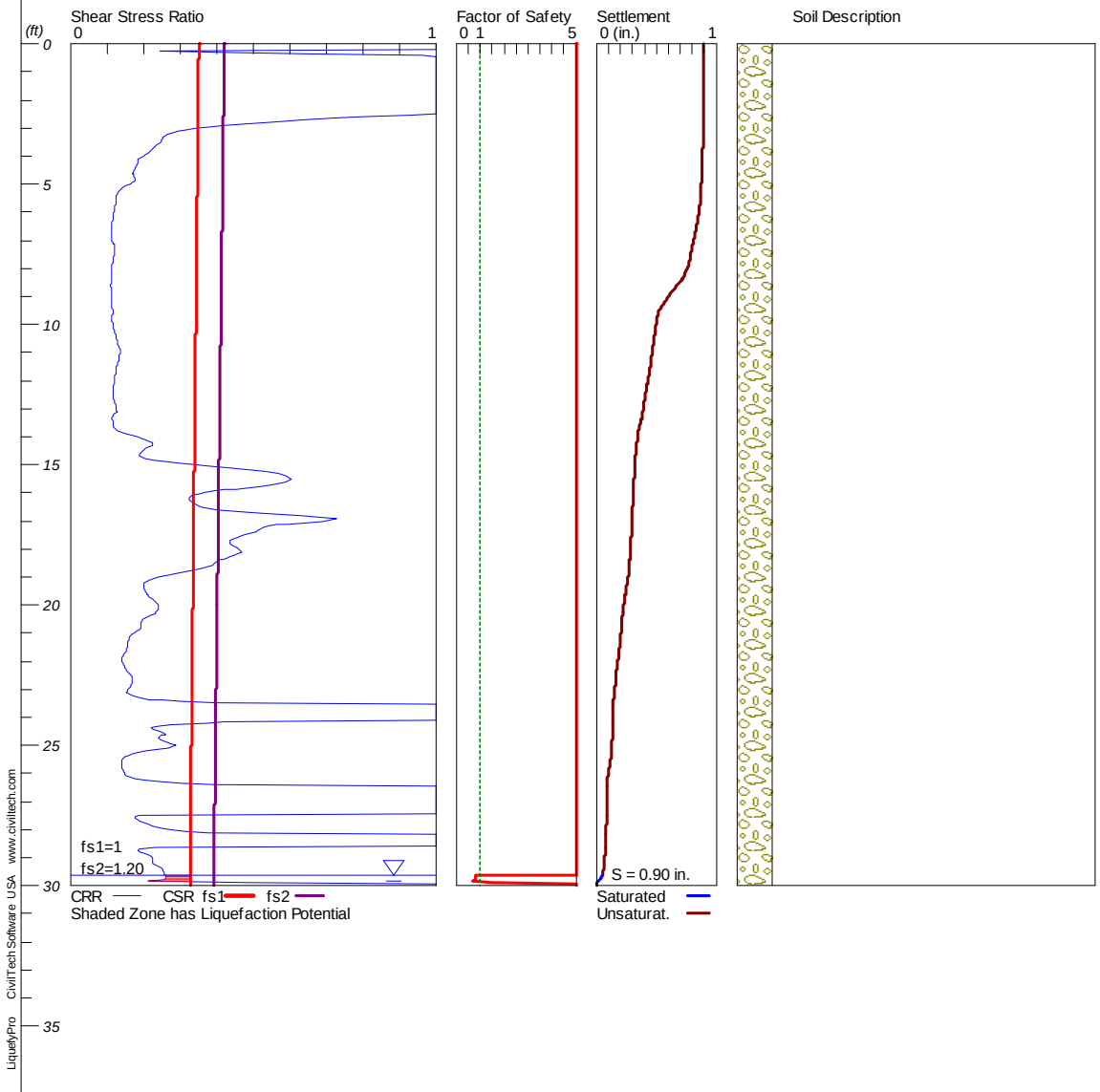
GENTERRA Consultants, Inc. **Stormwater Channel Improvement**

LIQUEFACTION ANALYSIS

393-PB

Hole No.=CPT-6 Water Depth=29.6 ft

Magnitude=6.94
Acceleration=0.54g



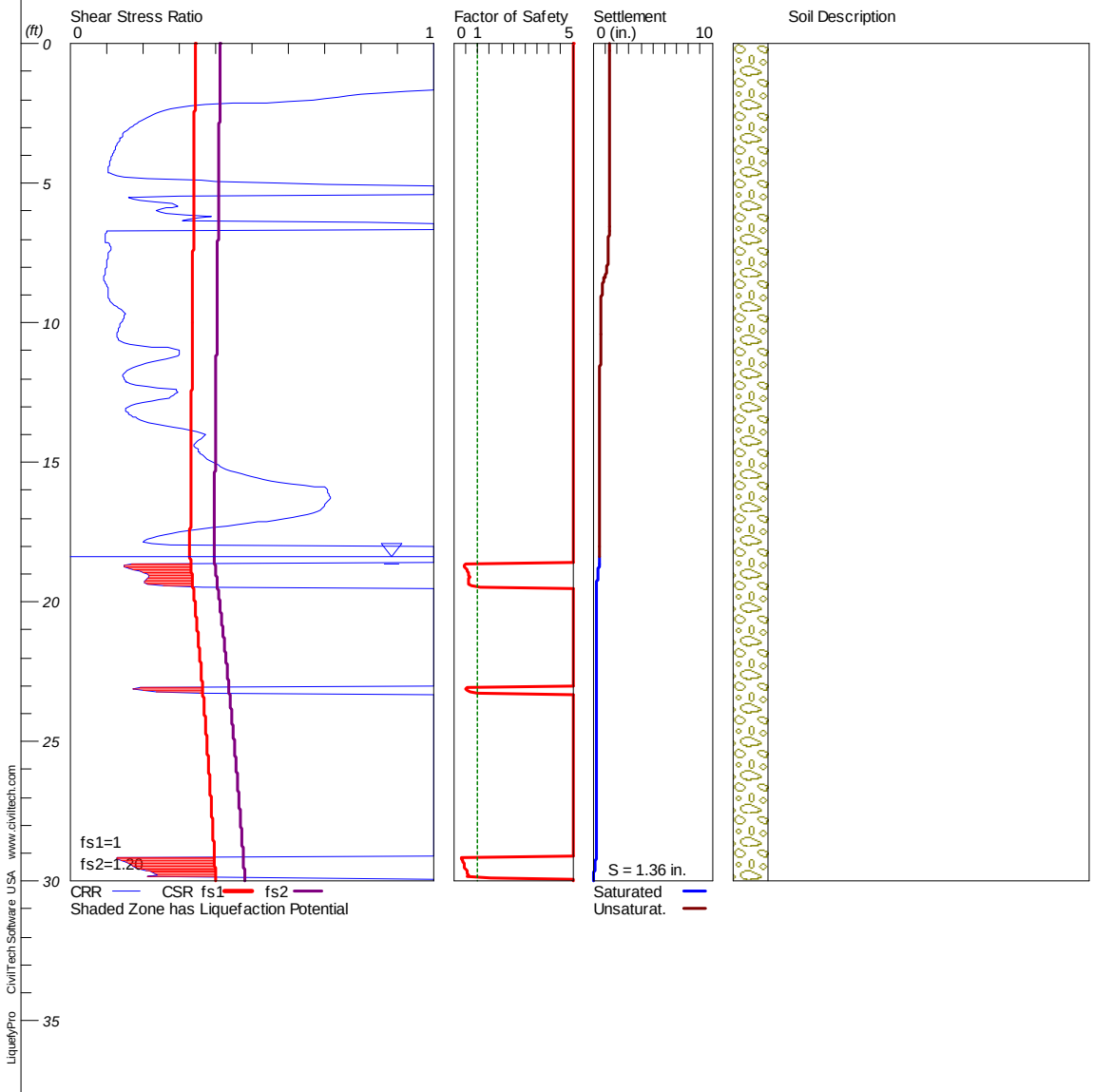
GENTERRA Consultants, Inc. **Stormwater Channel Improvement**

LIQUEFACTION ANALYSIS

393-PB

Hole No.=CPT-7 Water Depth=18.4 ft

Magnitude=6.93
Acceleration=0.53g



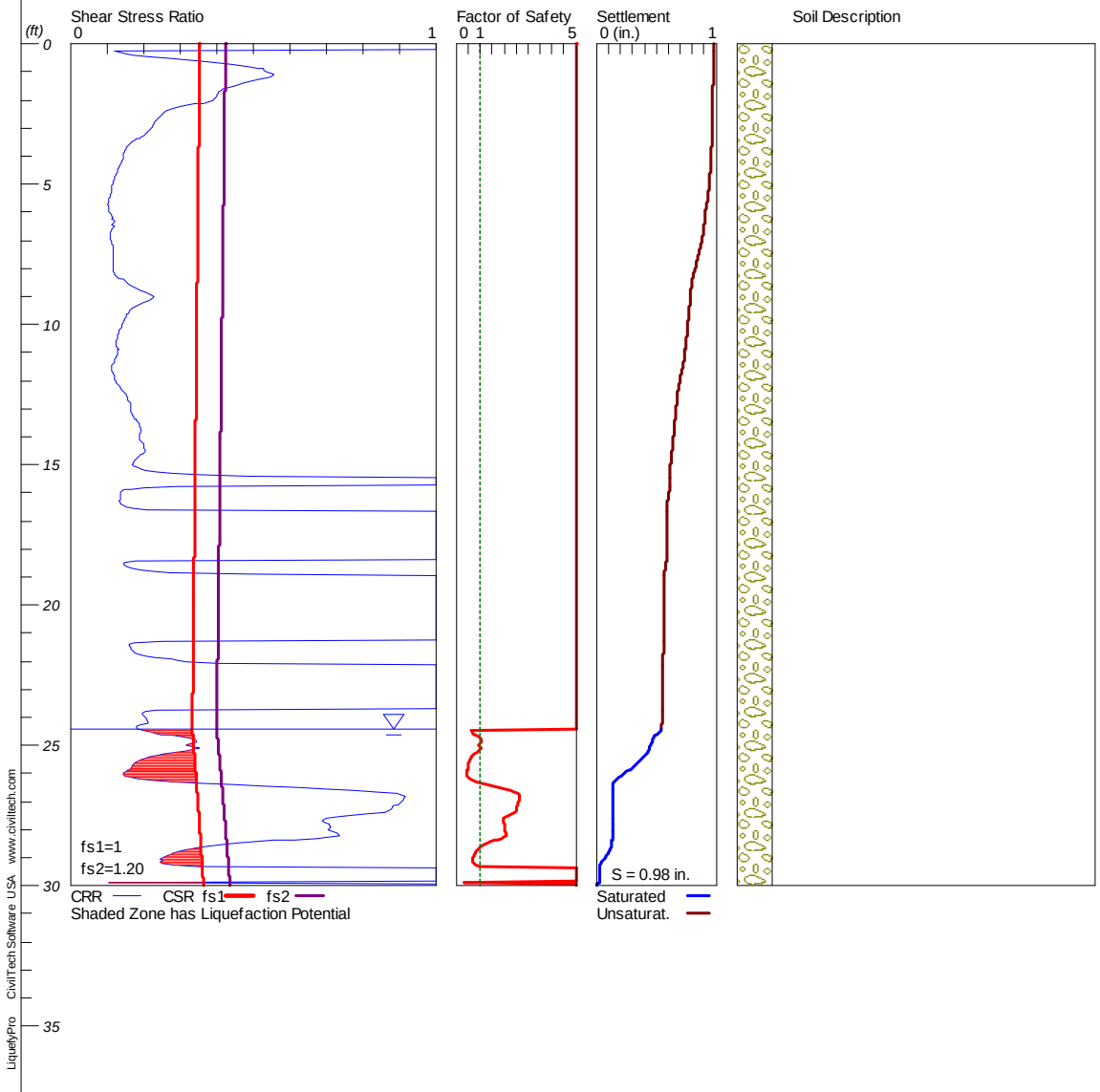
GENTERRA Consultants, Inc. **Stormwater Channel Improvement**

LIQUEFACTION ANALYSIS

393-PB

Hole No.=CPT-9 Water Depth=24.4 ft

Magnitude=6.95
Acceleration=0.544g



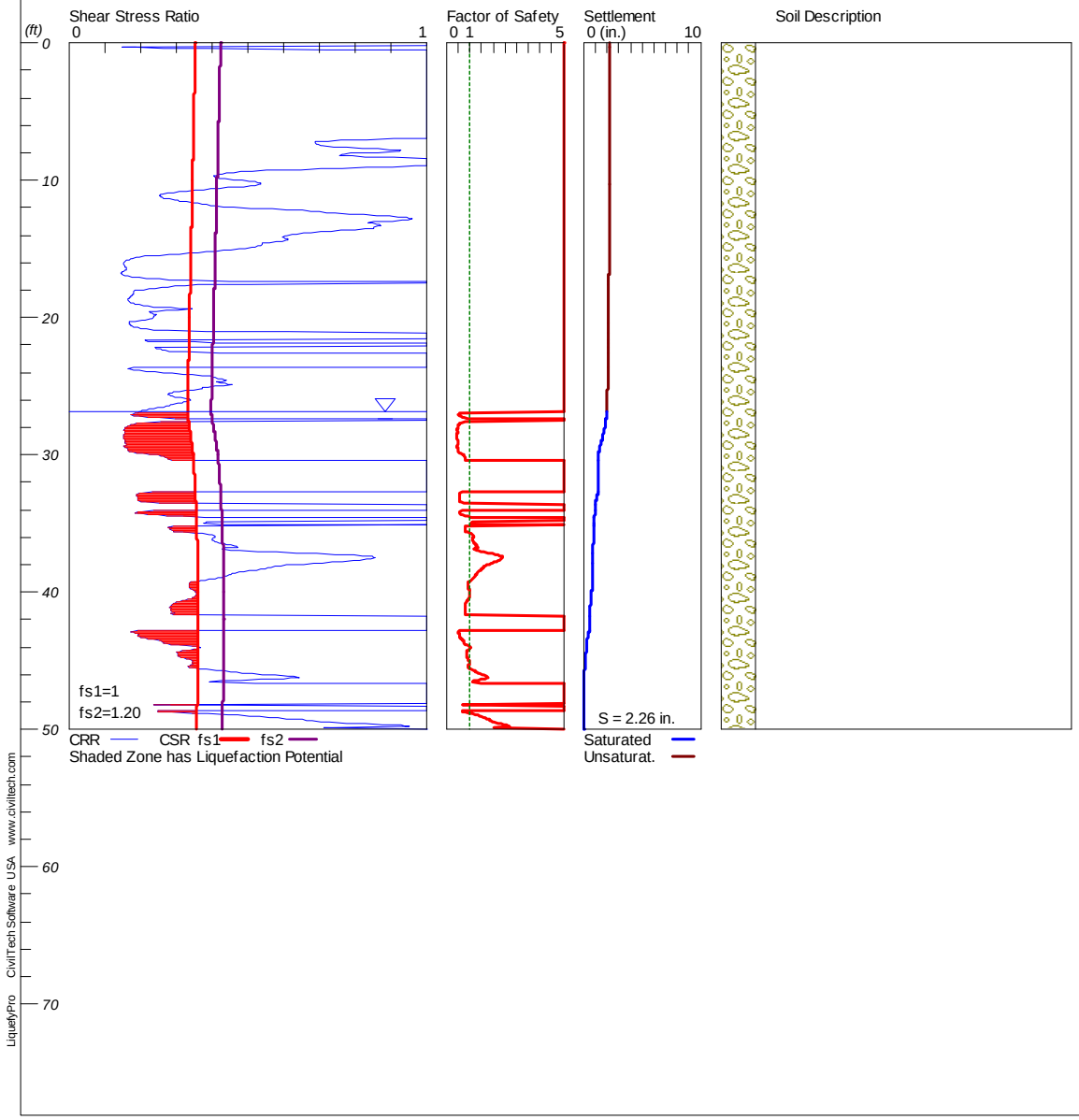
GENTERRA Consultants, Inc. **Stormwater Channel Improvement**

LIQUEFACTION ANALYSIS

393-PB

Hole No.=CPT-10 Water Depth=26.9 ft

Magnitude=6.95
Acceleration=0.544g



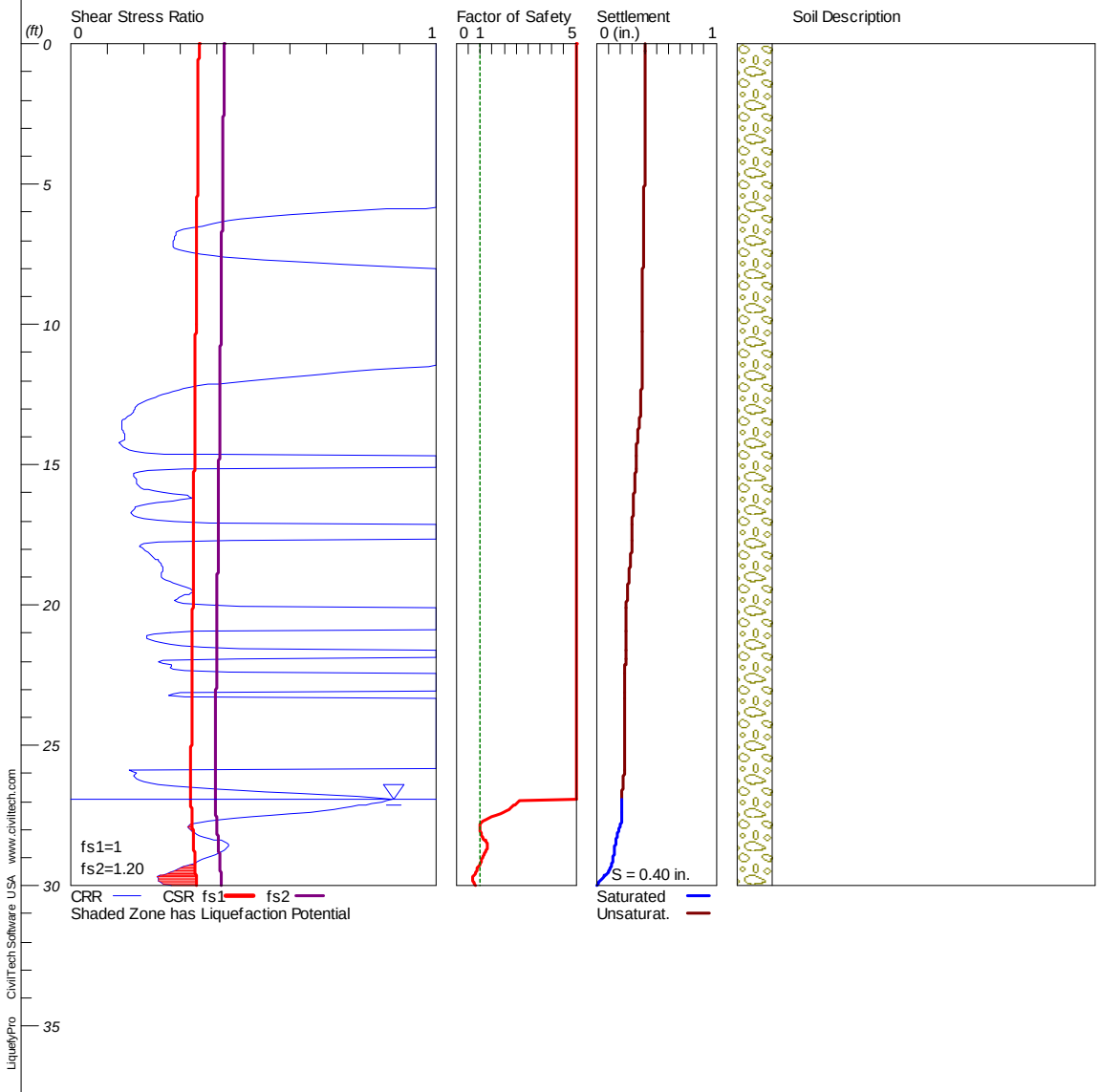
GENTERRA Consultants, Inc. **Stormwater Channel Improvement**

LIQUEFACTION ANALYSIS

393-PB

Hole No.=CPT-12 Water Depth=26.9 ft

Magnitude=6.94
Acceleration=0.54g



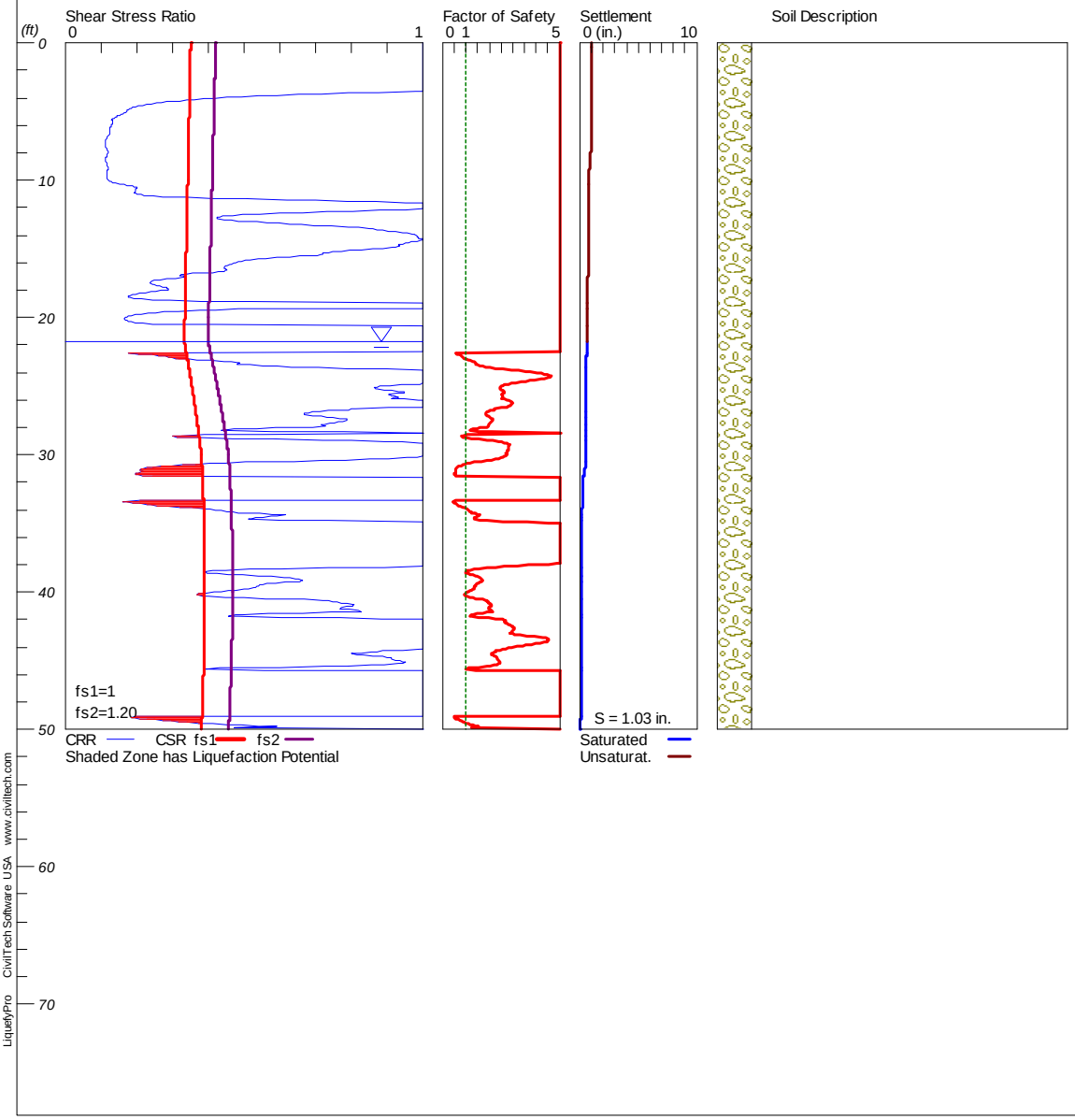
GENTERRA Consultants, Inc. **Stormwater Channel Improvement**

LIQUEFACTION ANALYSIS

393-PB

Hole No.=CPT-13 Water Depth=21.7 ft

Magnitude=6.94
Acceleration=0.54g



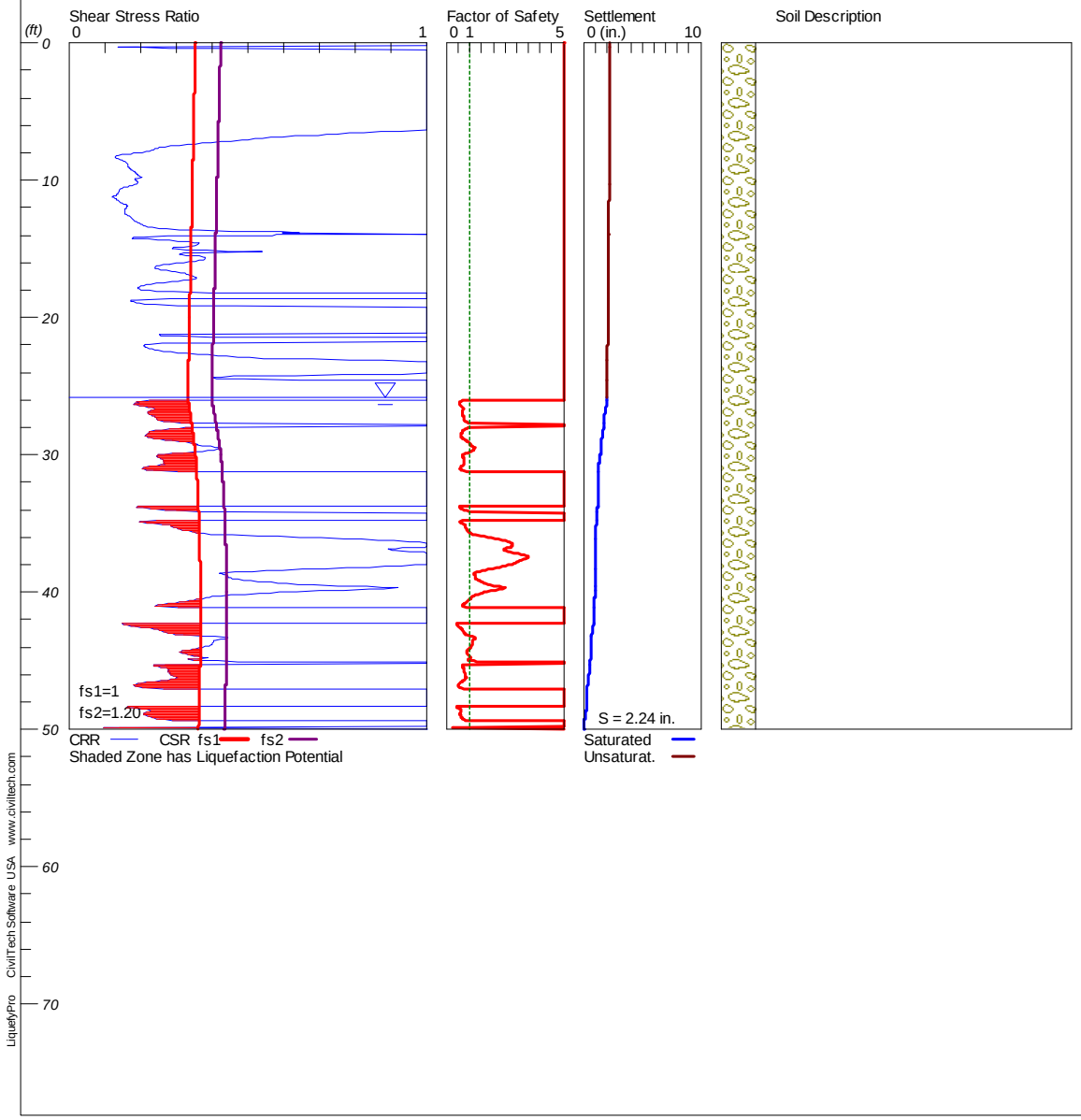
GENTERRA Consultants, Inc. **Stormwater Channel Improvement**

LIQUEFACTION ANALYSIS

393-PB

Hole No.=SCPT-4 Water Depth=25.8 ft

Magnitude=6.95
Acceleration=0.544g



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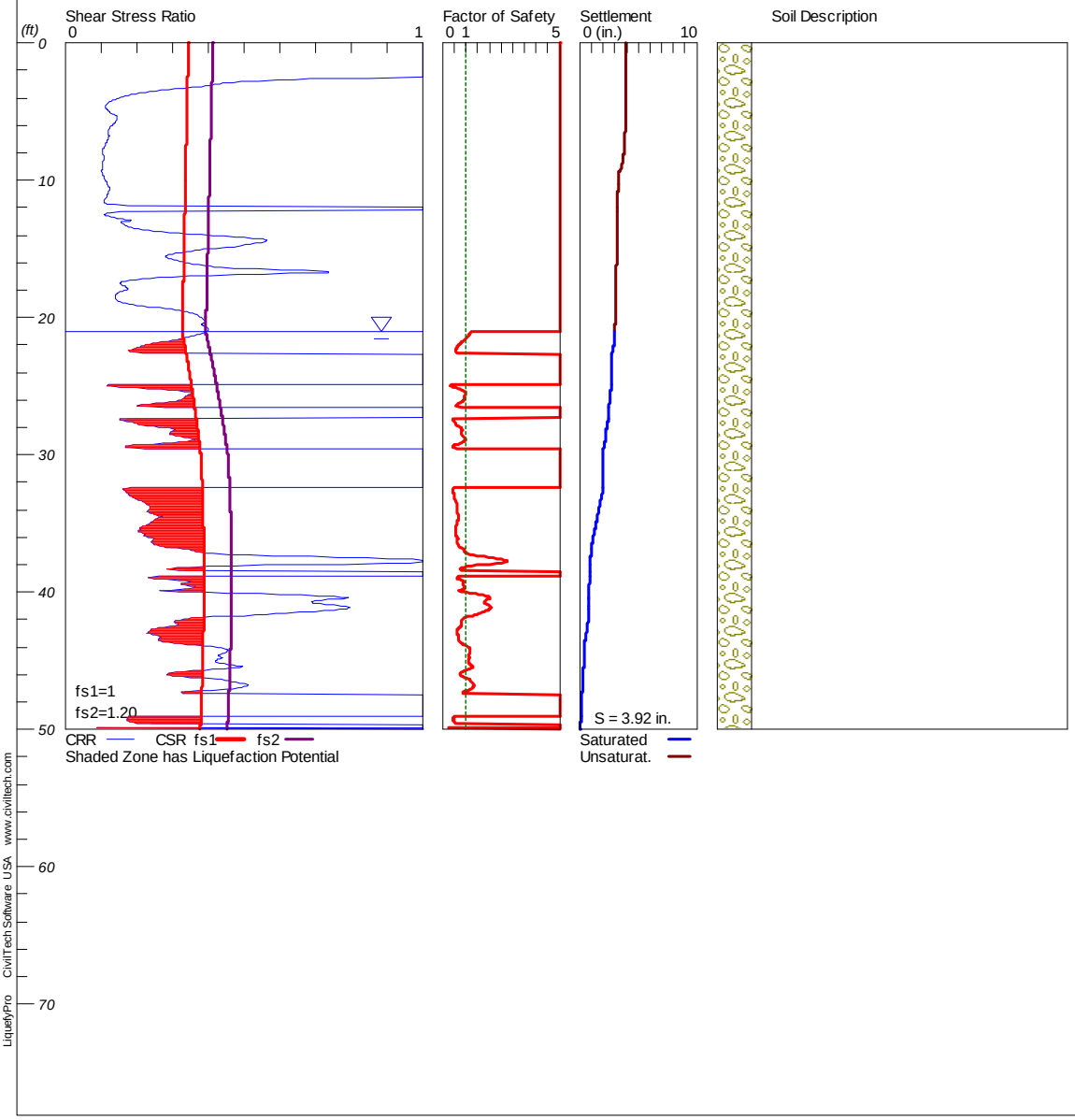
Stormwater Channel Improvement

LIQUEFACTION ANALYSIS

393-PB

Hole No.=SCPT-8 Water Depth=21 ft

Magnitude=6.93
Acceleration=0.53g



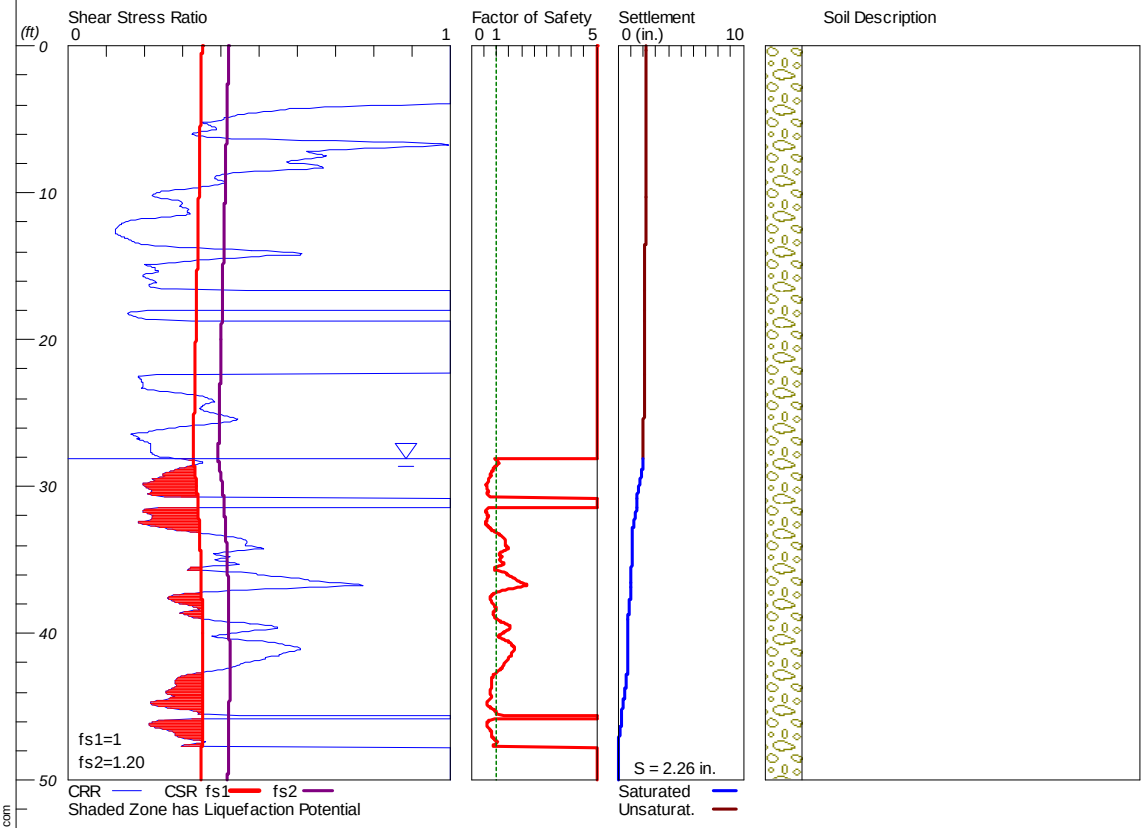
LiquefyPro CivilTech Software USA www.civiltech.com

LIQUEFACTION ANALYSIS

393-PB

Hole No.=SCPT-11 Water Depth=28.1 ft

Magnitude=6.94
Acceleration=0.54g



LiquefyPro CivilTech Software USA www.civiltech.com

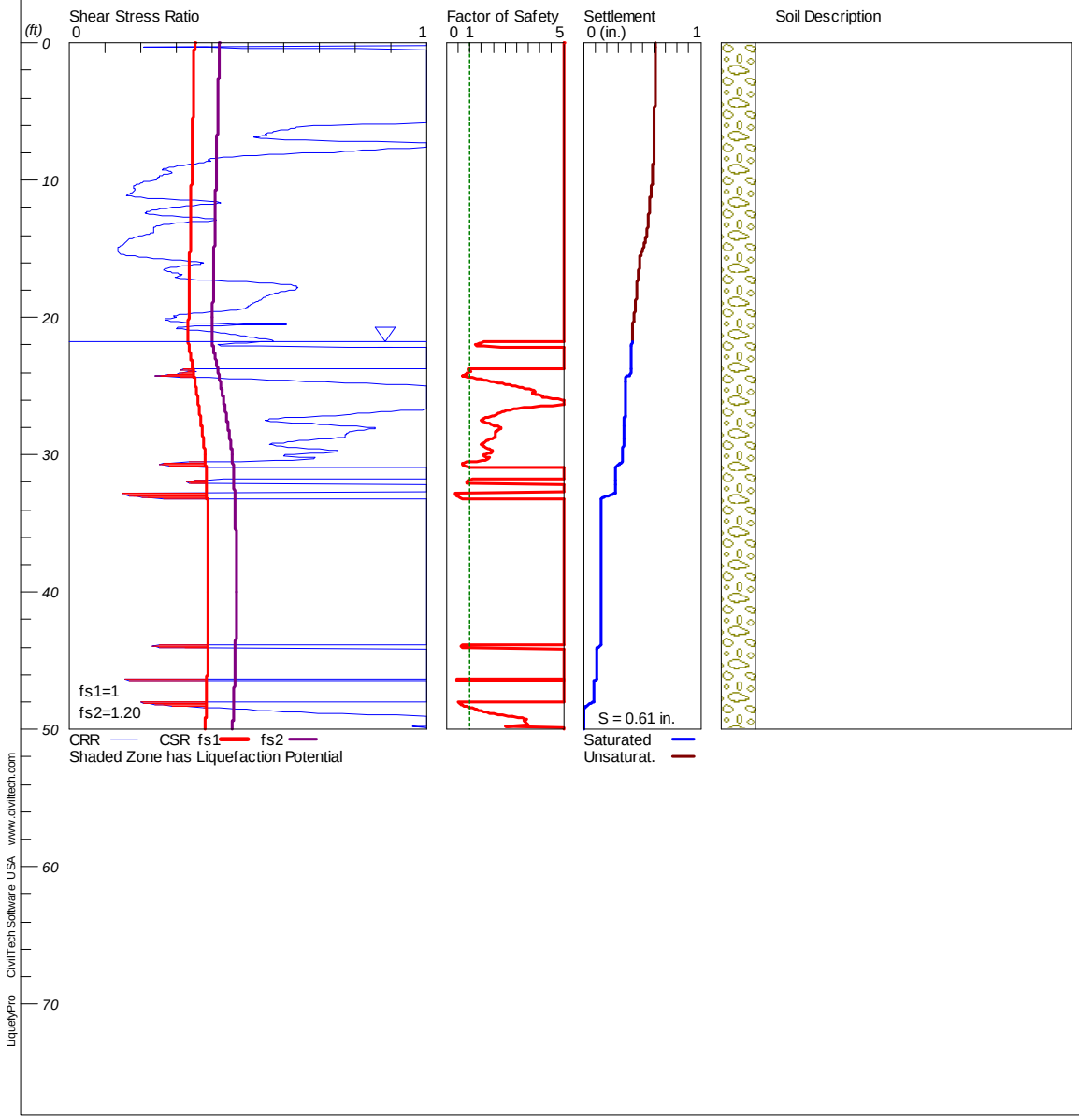
GENTERRA Consultants, Inc. **Stormwater Channel Improvement**

LIQUEFACTION ANALYSIS

393-PB

Hole No.=SCPT-14 Water Depth=21.7 ft

Magnitude=6.94
Acceleration=0.54g

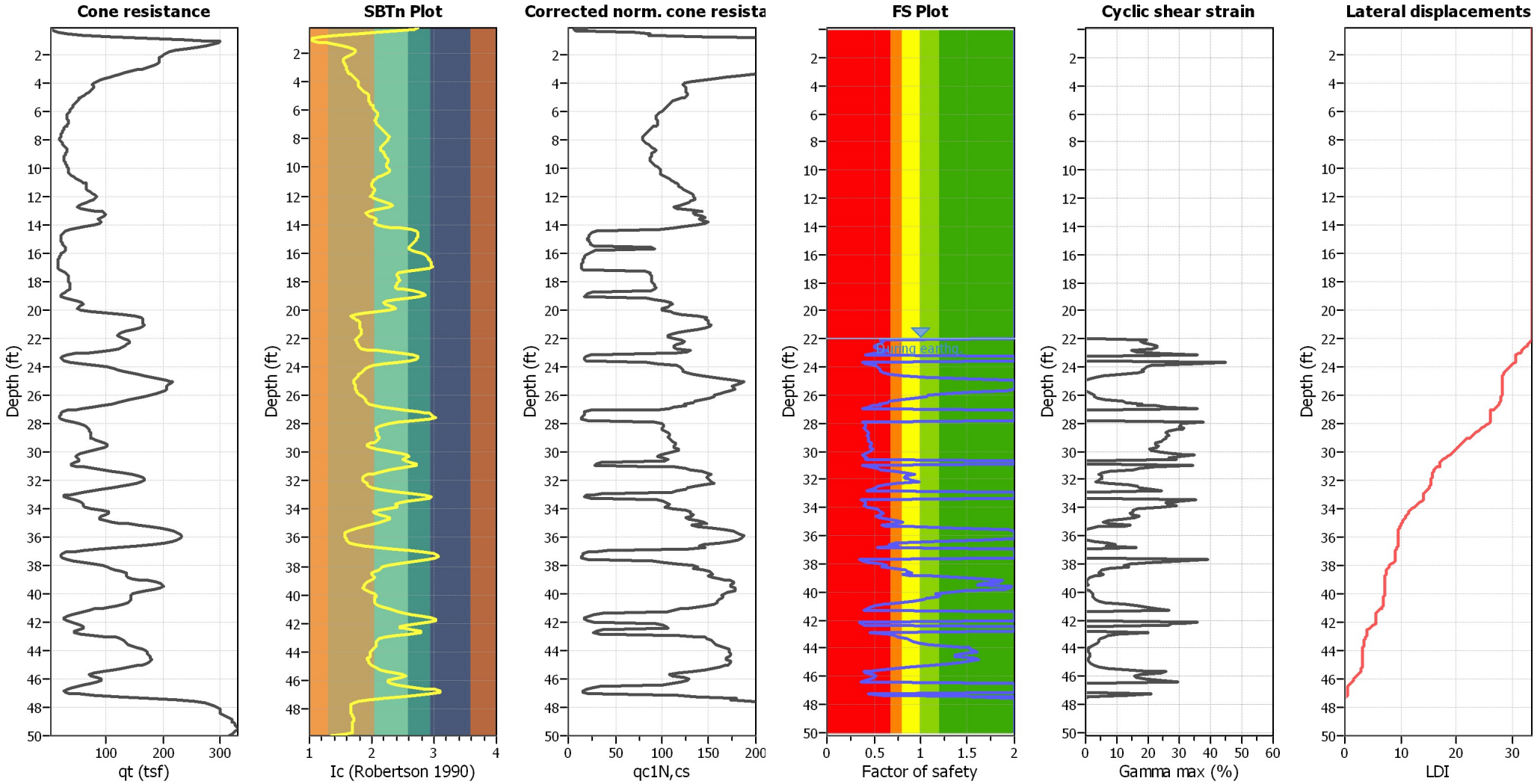


GENTERRA Consultants, Inc. **Stormwater Channel Improvement**

APPENDIX G

RESULTS OF LATERAL SPREAD CALCULATIONS

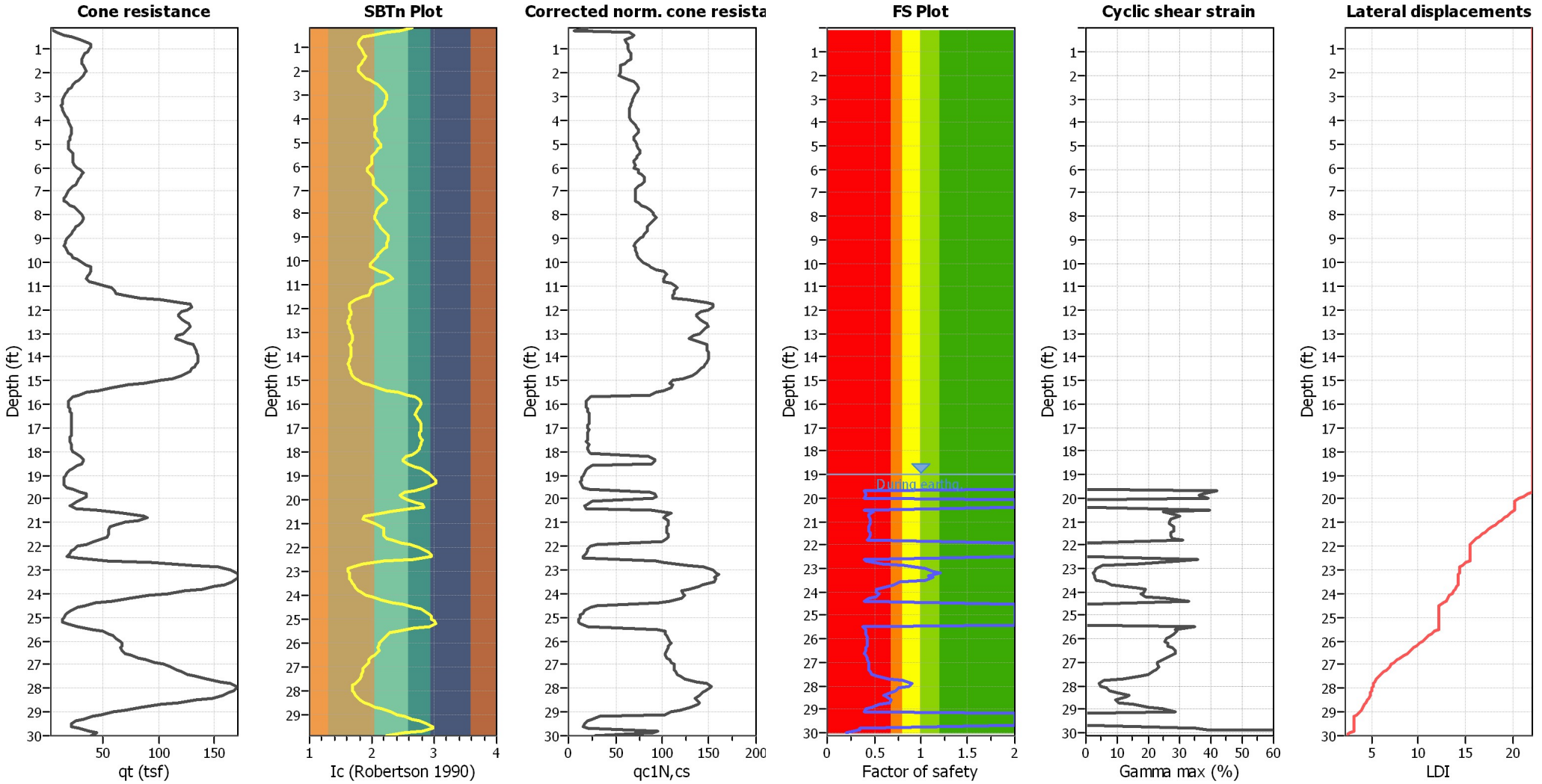
Estimation of post-earthquake lateral Displacements



Abbreviations

q_t: Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c: Soil Behaviour Type Index
$q_{c1N,cs}$: Equivalent clean sand normalized CPT total cone resistance
F.S.: Factor of safety
γ_{max}: Maximum cyclic shear strain
LDI: Lateral displacement index

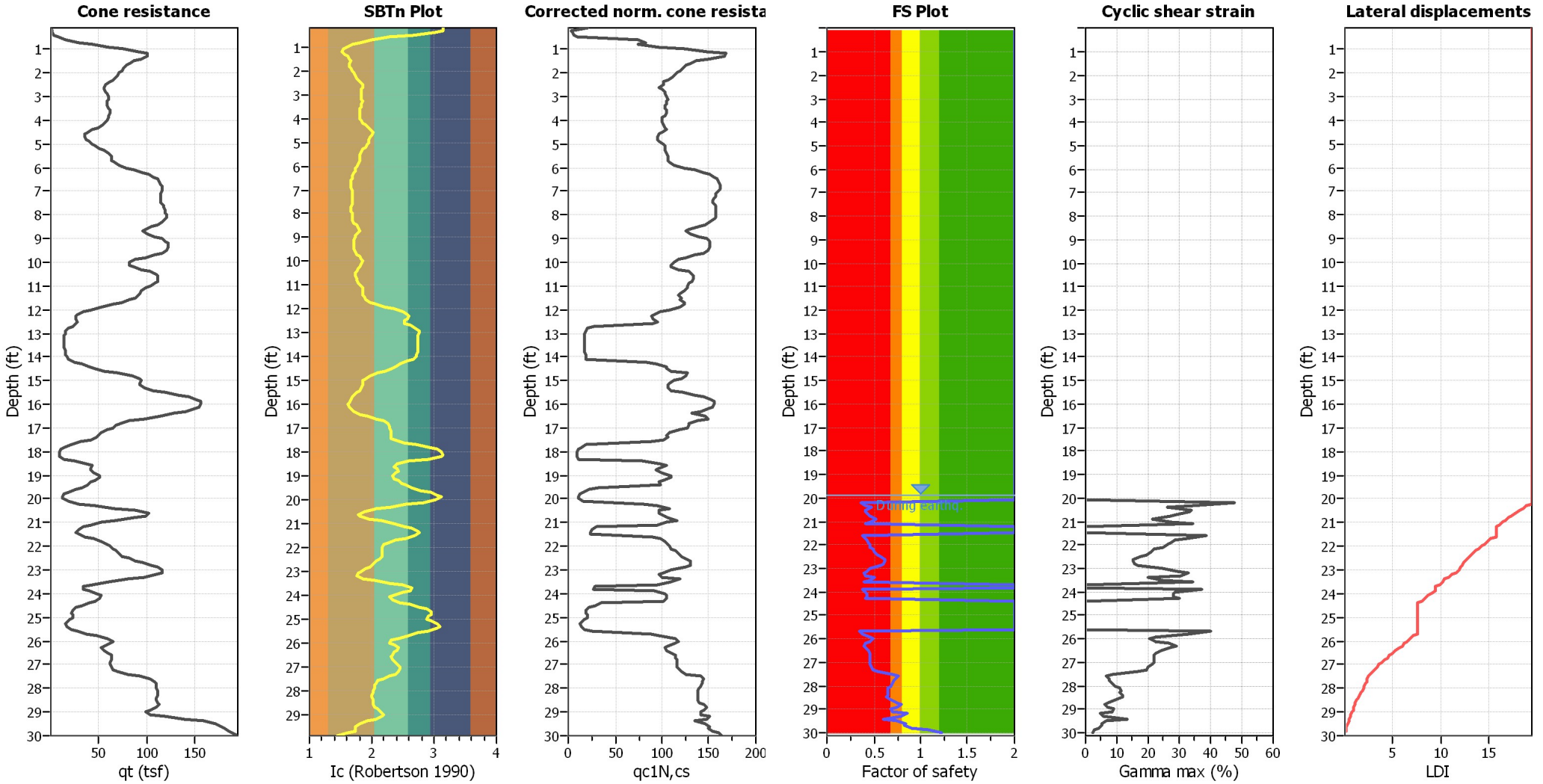
Estimation of post-earthquake lateral Displacements



Abbreviations

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γ_{max}: Maximum cyclic shear strain
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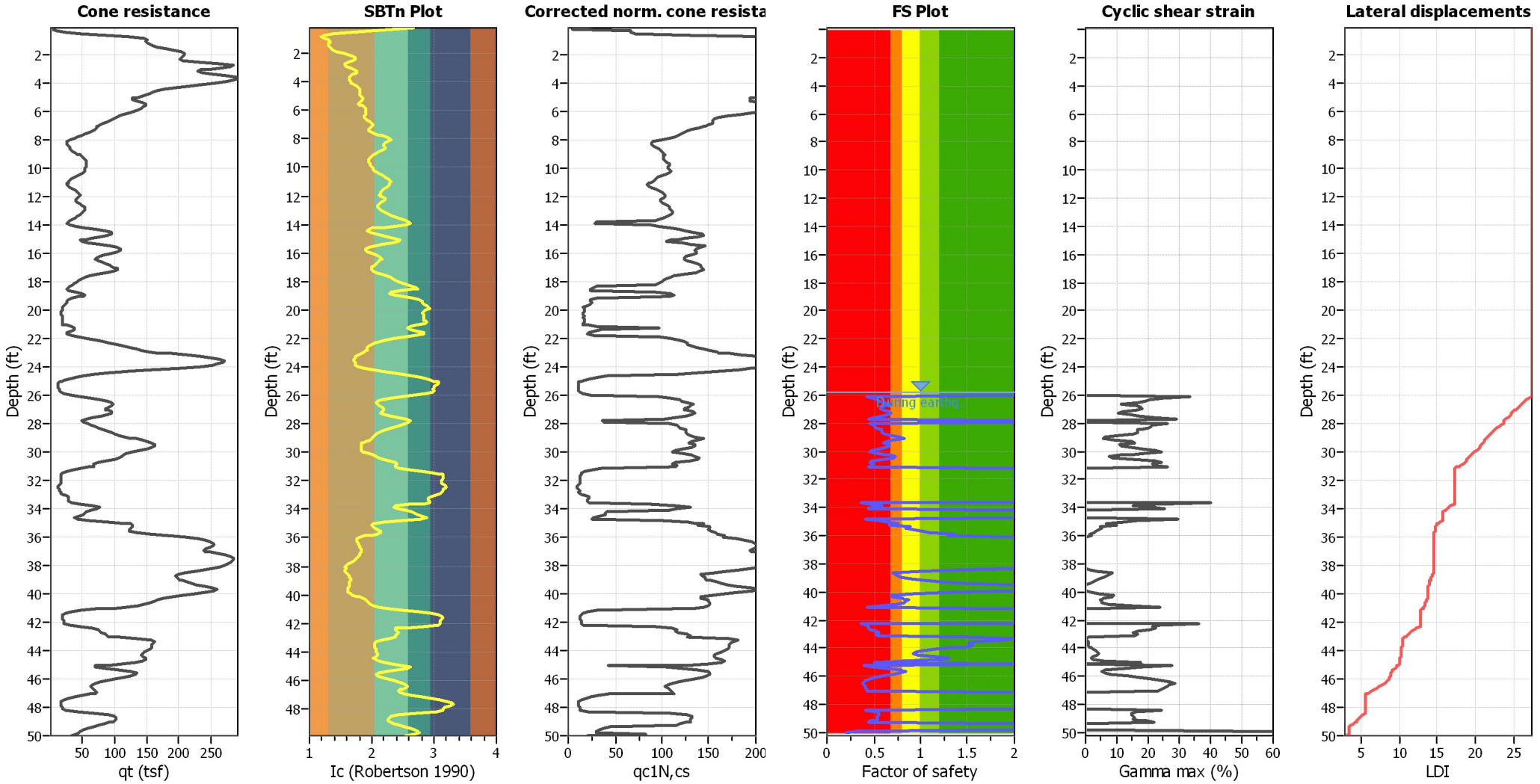
Estimation of post-earthquake lateral Displacements



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q_t: Total cone resistance (cone resistance q_c corrected for pore water effects)
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LDI: Lateral displacement index

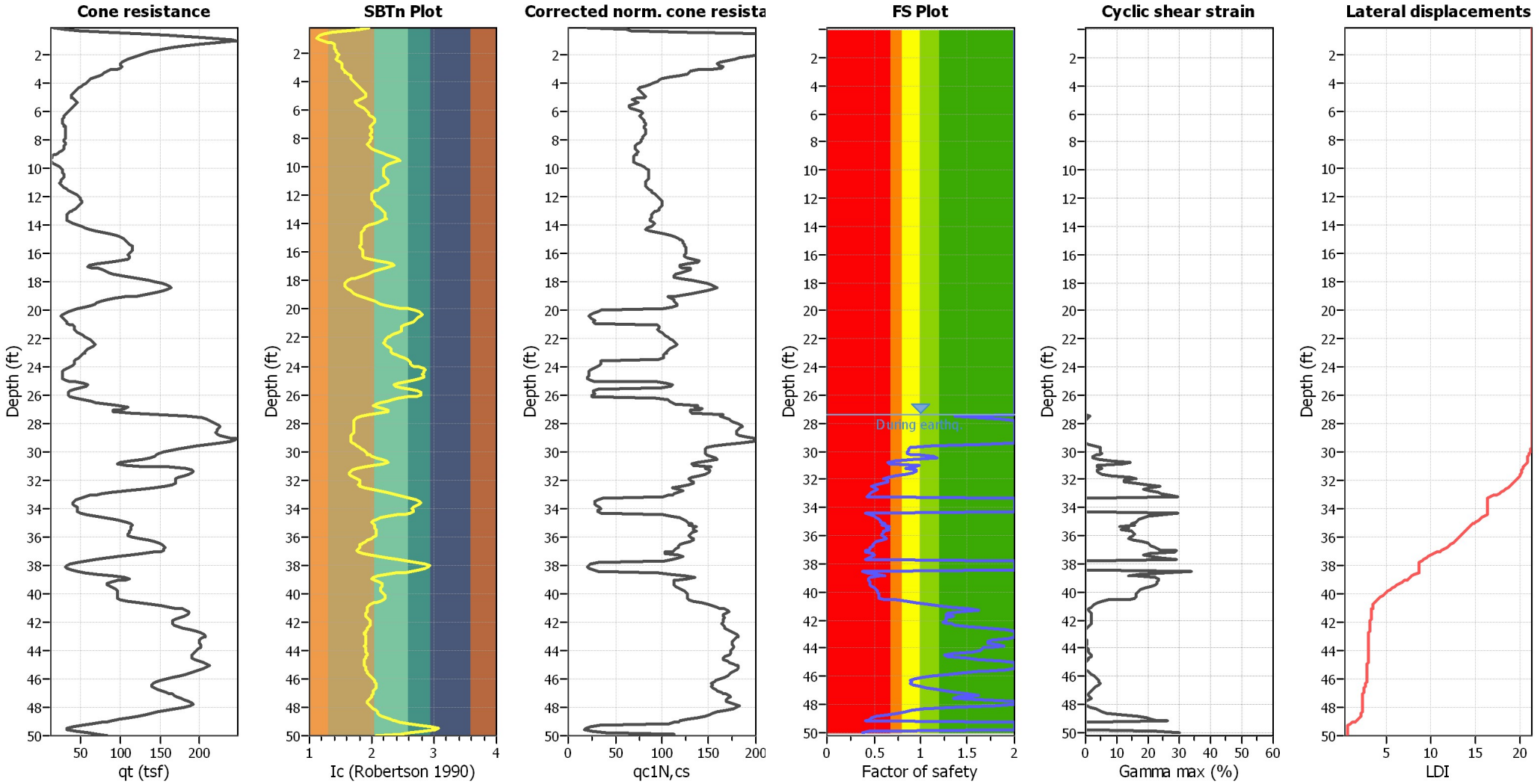
Estimation of post-earthquake lateral Displacements



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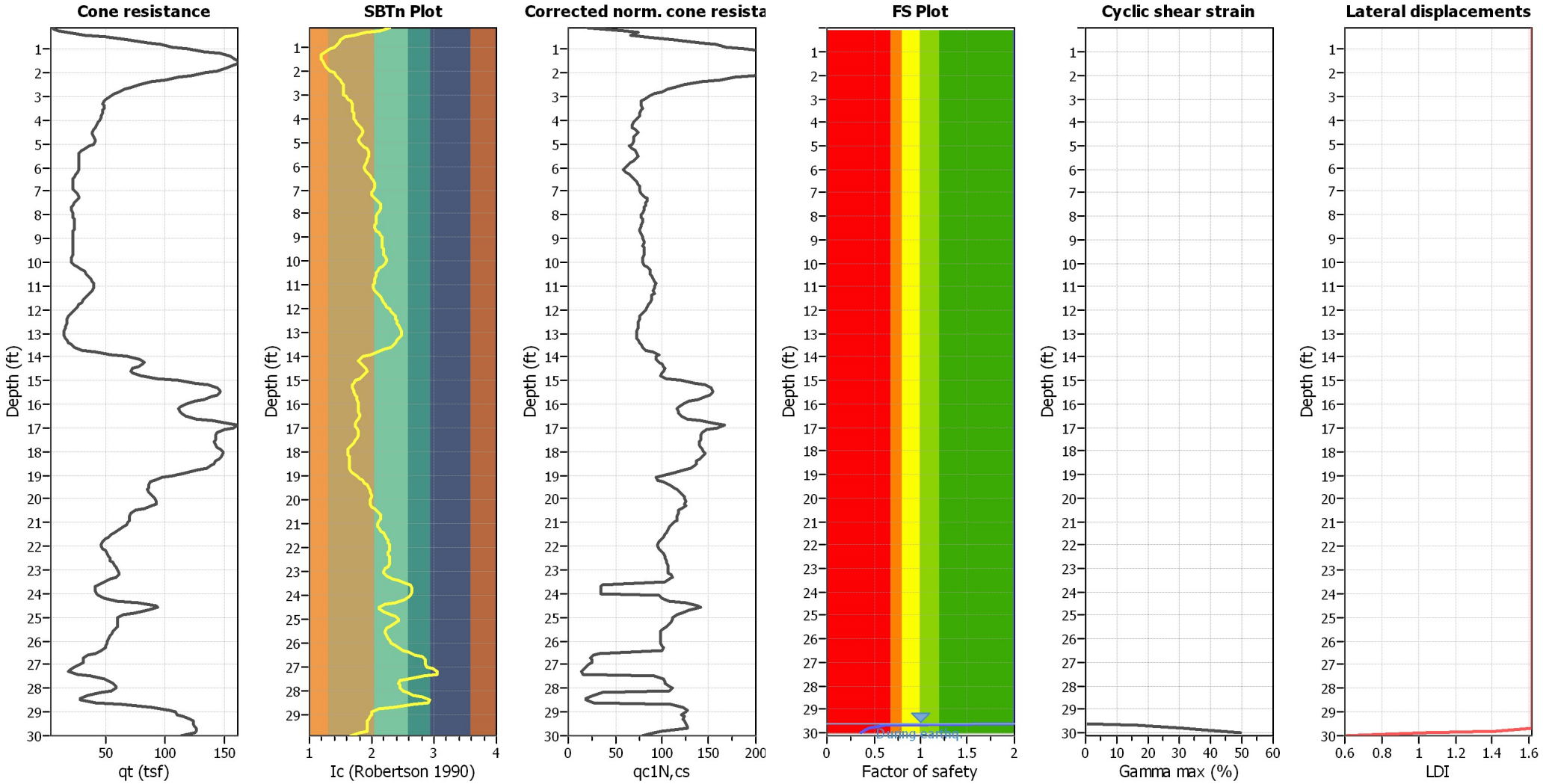
Estimation of post-earthquake lateral Displacements



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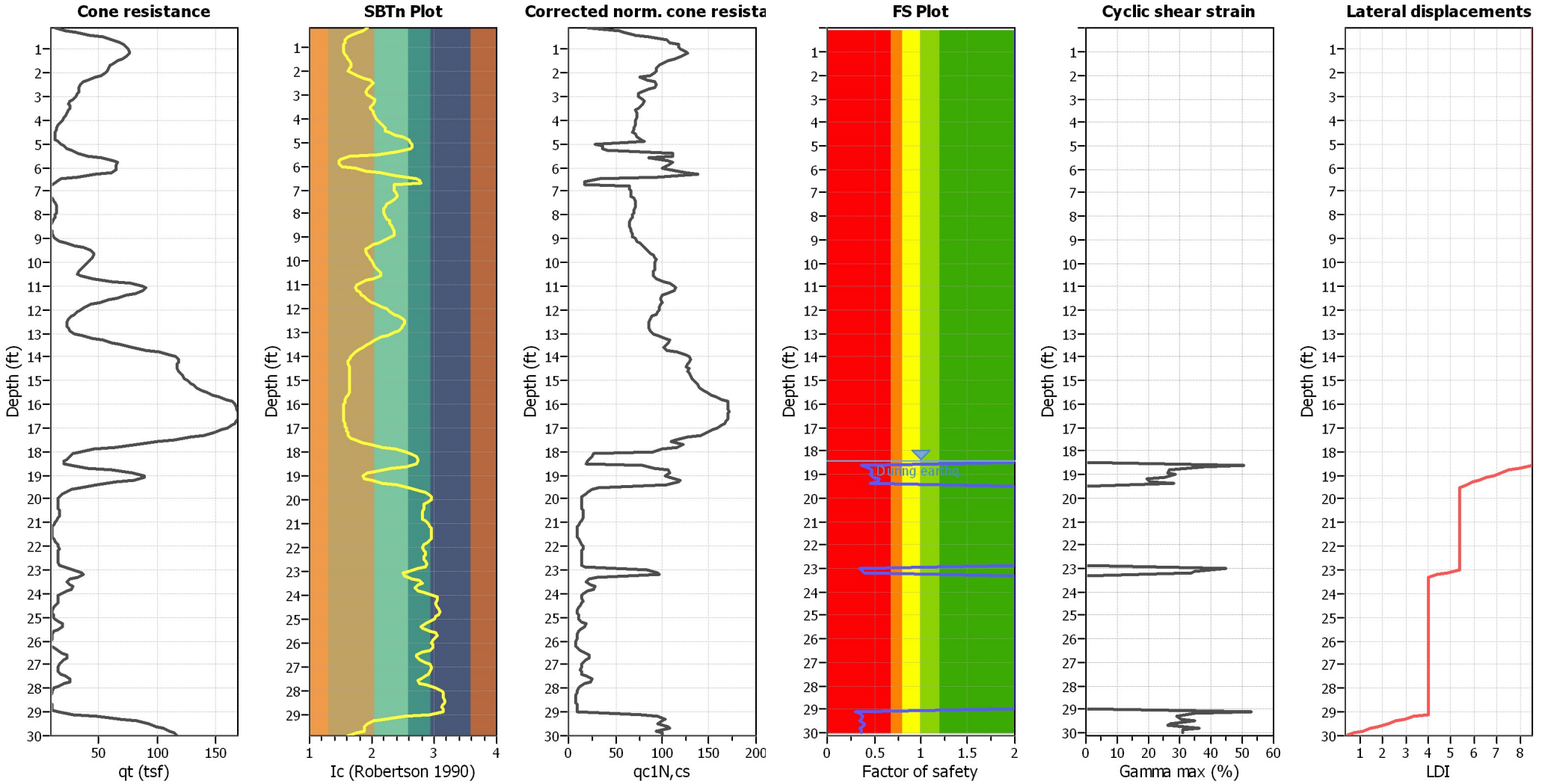
Estimation of post-earthquake lateral Displacements



Abbreviations

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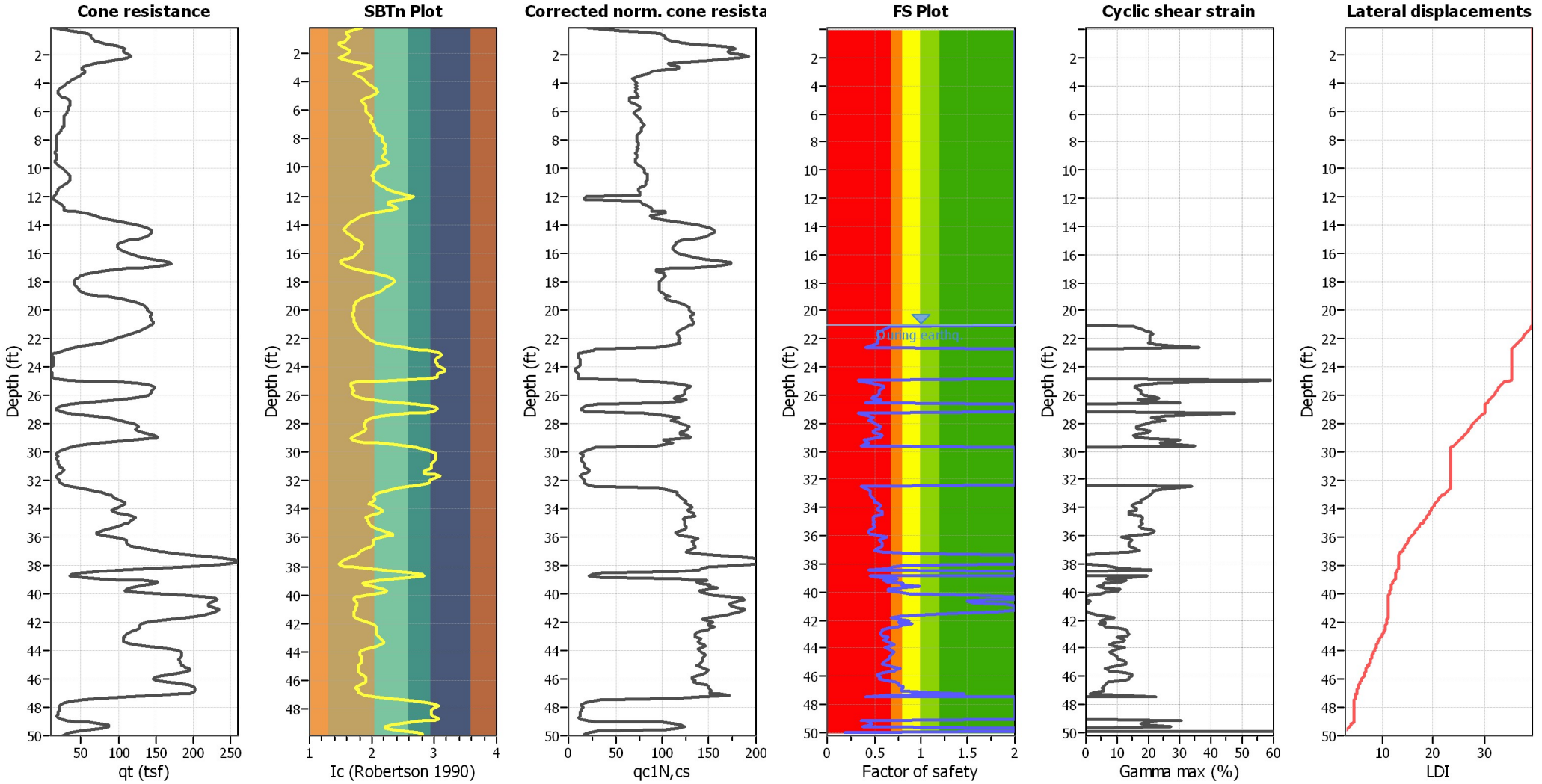
Estimation of post-earthquake lateral Displacements



Abbreviations

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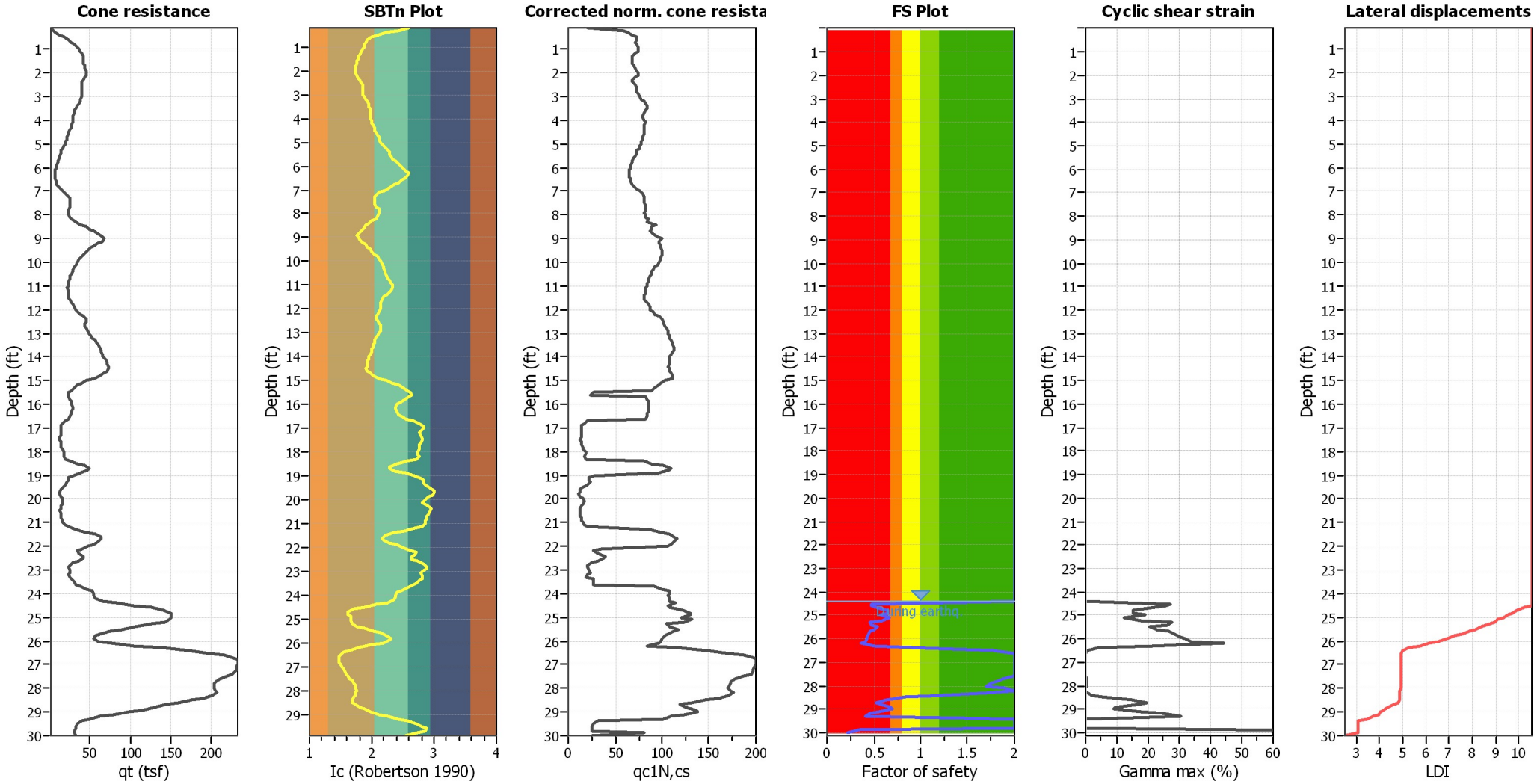
Estimation of post-earthquake lateral Displacements



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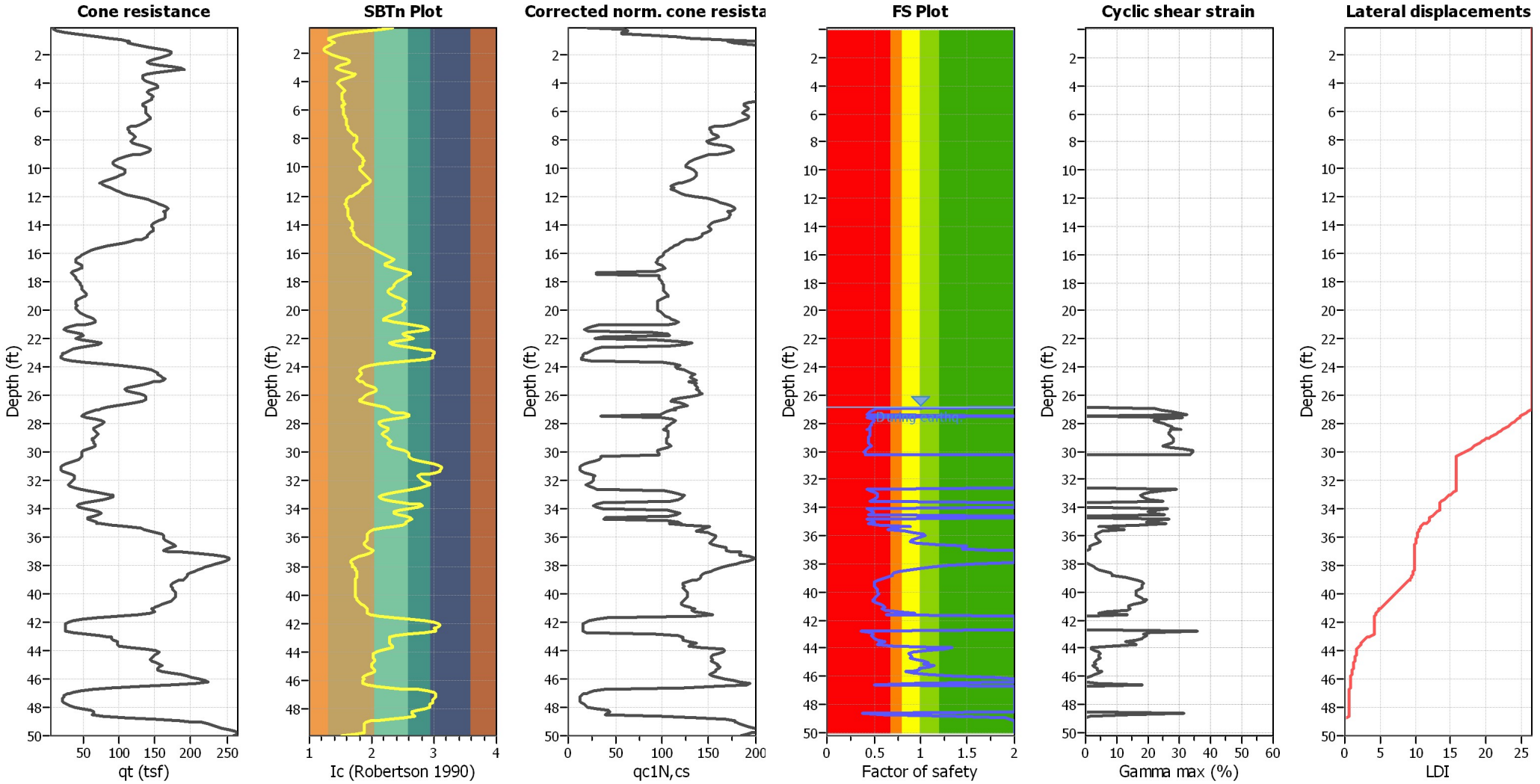
Estimation of post-earthquake lateral Displacements



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F.S.: Factor of safety
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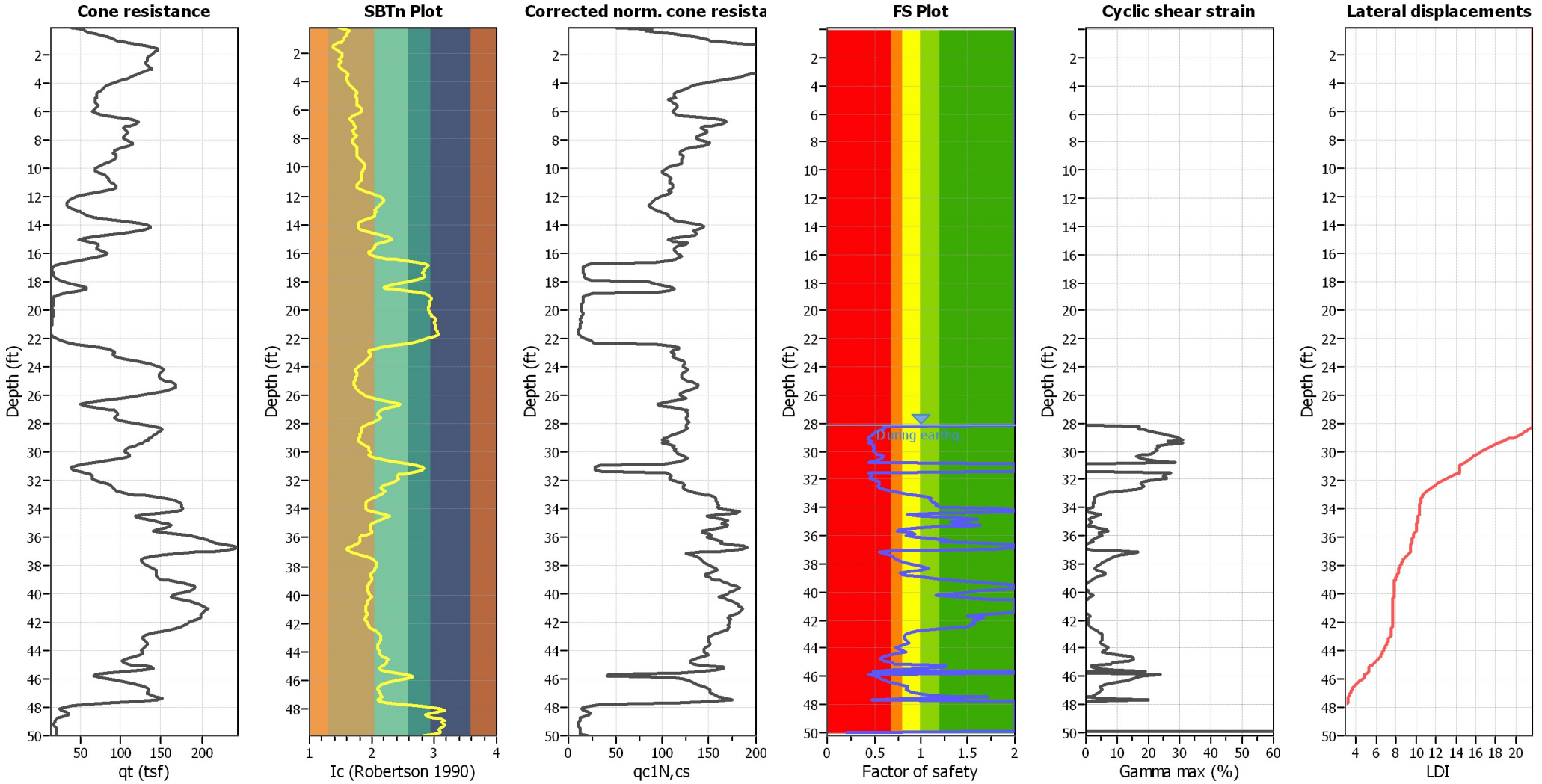
Estimation of post-earthquake lateral Displacements



Abbreviations

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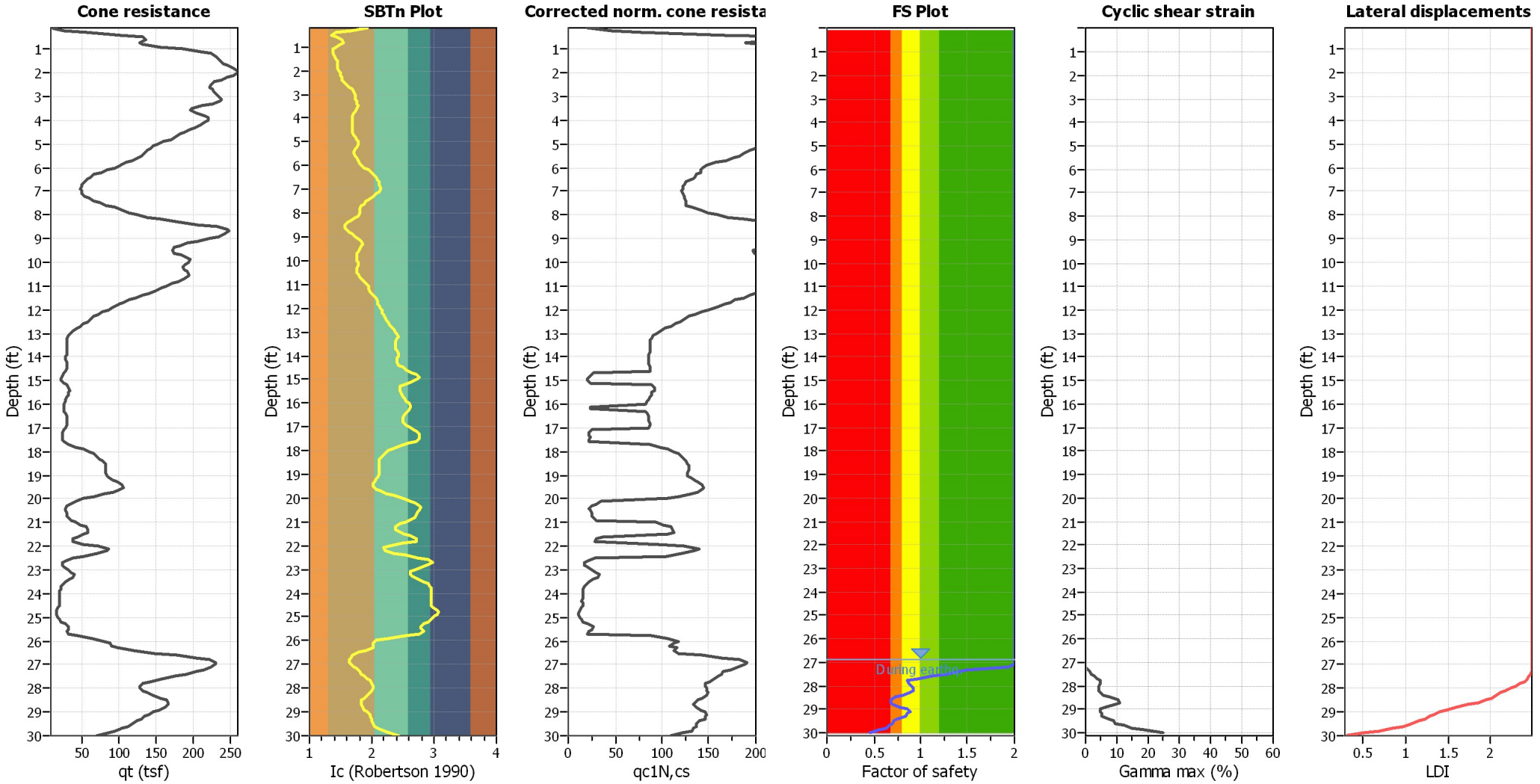
Estimation of post-earthquake lateral Displacements



Abbreviations

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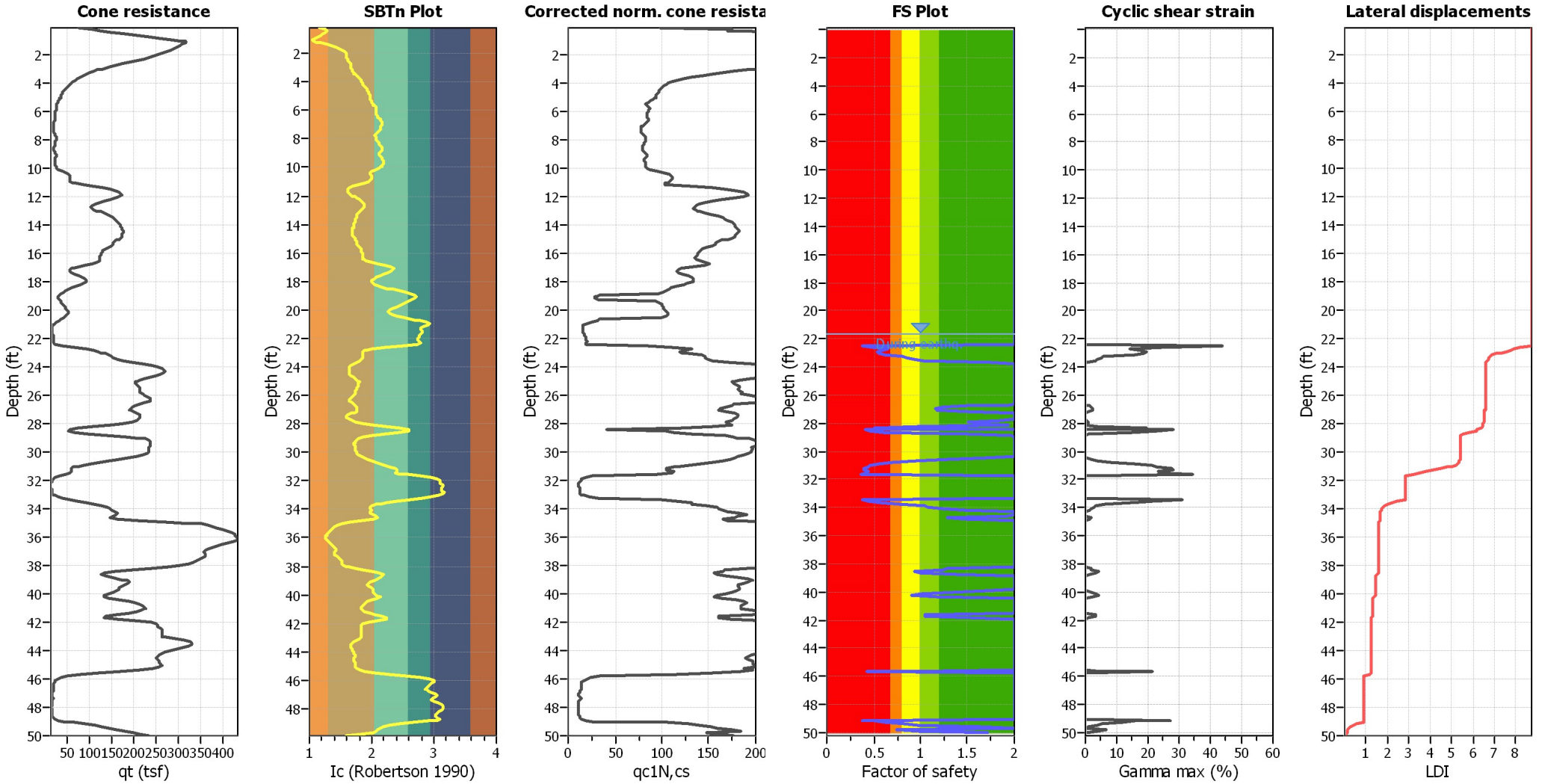
Estimation of post-earthquake lateral Displacements



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F.S.: Factor of safety
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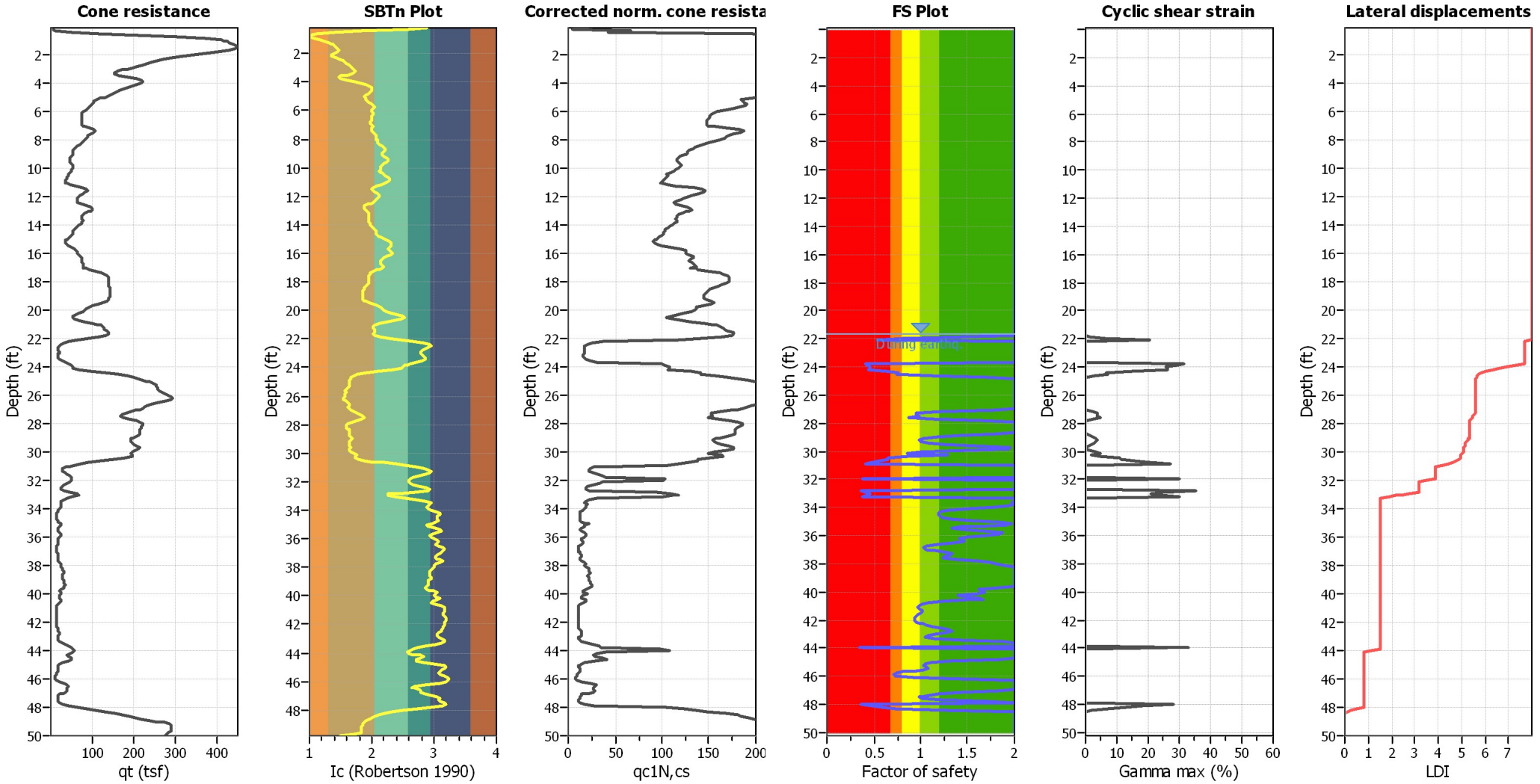
Estimation of post-earthquake lateral Displacements



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F.S.: Factor of safety
γ_{max}: Maximum cyclic shear strain
LDI: Lateral displacement index

Estimation of post-earthquake lateral Displacements



Abbreviations

q_t: Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c: Soil Behaviour Type Index
$q_{c1N,cs}$: Equivalent clean sand normalized CPT total cone resistance
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