



COACHELLA VALLEY WATER DISTRICT DOMESTIC WATER CHECKLIST

Project Name: _____

Tract/Parcel No: _____

Developer: _____

Phone: _____

Engineering Firm: _____

Phone: _____

This is only a general checklist. Please refer to the Coachella Valley Water District (CVWD) [Development Design Manual \(DDM\)](#) for all procedural and technical requirements. Sample drawings can be found on [DDM Appendix E](#) – Plan Checklist & Drawings.

General Information

- Pipeline requirements from approved hydraulic modeling reports must be incorporated into the plans by the 2nd plan check submittal.
- Trench Detail(s) must be included on the cover sheet. Follow the guidelines in Appendix N of the DDM for trench detail requirements. Provide calculations and soils report to support trench detail by the 2nd plan check submittal. Soils report must be specific to pipeline design location and depth and address pipeline design parameters.
- Plans must be exclusively for CVWD approval.
- Submit PDF of CAD linework for pipelines, appurtenances, and all easements and right-of-way.
- **Checklist must be signed by the Engineer of Record (EOR) and returned with the first submittal.**

I. COVER/TITLE SHEET																	
<input type="checkbox"/>	1. Project Title. Center the project title on top of cover page in large font. Project title must include: city, county, state, type of plans, tract/parcel map number, project name, and geographic data (quarter section, section, township and range). Project title must match the information in the title block.																
<input type="checkbox"/>	2. Keep an 8 ½-inch wide area clear along the entire right side of the cover sheet for General Domestic Water Notes and CVWD signature block.																
<input type="checkbox"/>	3. Fire Department Signature Block. Include this standard block in the lower left-hand side.																
<input type="checkbox"/>	4. Vicinity Map. Show the Vicinity map on the top left corner with the general area and cross streets labeled. Show section lines and section numbers on all sides and adjacent tract/parcel map numbers. Scale between 1" = 1,000' or 1" = 5,000'. Not to Scale (NTS) is also acceptable as long as it is listed.																
<input type="checkbox"/>	5. Index Map. Index map needs to show the overall project with all existing and proposed domestic water, sewer, irrigation, and drainage systems with materials and sizes including above ground appurtenances, section numbers, and surrounding APN(s). Bar scale shall be between 1" = 200' through 1" = 500'. Label all streets in and adjacent to project and the connection point(s).																
<input type="checkbox"/>	6. Show the lowest and highest invert (INV) elevation point of the water pipeline and call out on index map.																
<input type="checkbox"/>	7. Project APN(s). List the most current APNs and update as needed.																
<input type="checkbox"/>	8. Indicate the existing or proposed pressure zone (s) serving the Project.																
<input type="checkbox"/>	9. Indicate the Static pressure based on the location of the Project in relation to the pressure zone.																
<input type="checkbox"/>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> List the following in tabular form: <ul style="list-style-type: none"> • sheet index • abbreviations used on drawing • utility contacts • existing reference drawings </div> <div style="width: 50%;"> Examples <table style="margin-top: 10px; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center; border: 1px solid black; padding: 2px;">SHEET INDEX</th> <th colspan="2" style="text-align: center; border: none; padding: 2px;">ABBREVIATIONS</th> </tr> <tr> <td style="border: 1px solid black; padding: 2px; text-align: center;">SHEET</td> <td style="border: 1px solid black; padding: 2px; text-align: center;">DESCRIPTION</td> <td style="border: none; padding: 2px;">(E) EAST</td> <td style="border: none; padding: 2px;">ESMT EASEMENT</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; text-align: center;">1</td> <td style="border: 1px solid black; padding: 2px; text-align: center;">COVER SHEET</td> <td style="border: none; padding: 2px;">(N) NORTH</td> <td style="border: none; padding: 2px;">EX ESTISTING</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; text-align: center;">2-3</td> <td style="border: 1px solid black; padding: 2px; text-align: center;">PLAN/PROFILE SHEETS</td> <td style="border: none;"></td> <td style="border: none;"></td> </tr> </table> </div> </div>	SHEET INDEX		ABBREVIATIONS		SHEET	DESCRIPTION	(E) EAST	ESMT EASEMENT	1	COVER SHEET	(N) NORTH	EX ESTISTING	2-3	PLAN/PROFILE SHEETS		
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2-3	PLAN/PROFILE SHEETS																
<input type="checkbox"/>	11. The Symbol legend needs to show manholes, clean-outs, and all wet and dry utilities with appurtenances.																
<input type="checkbox"/>	12. Include the Owner/developer's information: name, address, phone number, contact name, and email.																
<input type="checkbox"/>	13. Include a typical street cross section showing all existing and proposed domestic water mains, sewer mains, irrigation mains and drainage systems for each street with depths and separation. Show curbs, sidewalks, walls, catch basins, landscape corridors, all dry utilities/Public Utility Easements (PUEs), easements, and rights-of-way (existing and proposed). Call out streets as public or private. For lettered lots, indicate use of lots and provide improvement plans. Easements must be labeled to the corresponding number on the easement table.																
<input type="checkbox"/>	14. Provide a space for Special Construction Notes to the contractor as necessary.																

II. GENERAL TO ALL SHEETS	
<input type="checkbox"/>	1. Page Size. Drawings shall be 24" x 36".
<input type="checkbox"/>	2. CVWD Signature Block. CVWD will place the signature block on the plans. Leave a 3-inch x 6-inch space clear in the bottom right hand corner on all pages for the CVWD signature block.
<input type="checkbox"/>	3. As-Built Signature Block. Provide a space of 3.5-inch x 2.5-inch.
<input type="checkbox"/>	4. Title Block. Place the title block in the lower right corner, and include city, county, state, type of plans, tract/parcel map number, project name, and geographic data (quarter section, section, township and range). Title block information must match project title on cover sheet.
<input type="checkbox"/>	5. Page number (i.e. sheet 1 of 5) needs to be in large font in lower right corner.
<input type="checkbox"/>	6. Include EOR information: name, address, phone number, and email.
<input type="checkbox"/>	7. Include EOR stamp with signature required on Final Approved Plans.
<input type="checkbox"/>	8. Provide a note to the contractor to call Underground Service Alert (USA) with phone number 811 prior to any excavation activities.
<input type="checkbox"/>	9. Show the benchmark elevation of monument (s), location, and datum.
<input type="checkbox"/>	10. Show the basis of bearings.
<input type="checkbox"/>	11. Provide a note for Elevation Conversion (if applicable) – the note shall read "TO CONVERT TO NATIONAL GEODETIC VERTICAL DATUM OF 1929, SUBTRACT 500 FEET FROM ALL ELEVATIONS SHOWN ON THESE PLANS."
<input type="checkbox"/>	12. Provide Construction Notes. List material quantities as "furnish and install" for the entire project. Quantities only required on Cover/Title Sheet.
<input type="checkbox"/>	13. Include the following required note entitled "CVWD Easement Note" - <i>"No permanent structures or trees within CVWD and/or USBR easements. CVWD will not be responsible for damage or replacement of any surface improvements, including but not limited to, decorative concrete, landscaping, curb, gutter, sidewalks, planters, gates and related improvements installed within CVWD and/or USBR easements."</i>
<input type="checkbox"/>	14. Show the North arrow on all plan views. North arrow should point up or to the right.
<input type="checkbox"/>	15. Show a Bar scale to match plan scale.
<input type="checkbox"/>	16. Call out all streets in Project as public or private.
III. PLANS – PLAN VIEW AND PROFILE REQUIREMENTS (FOR ALL SIZE MAINLINES)	
A. GENERAL REQUIREMENTS for PLAN VIEW and PROFILE (where noted)	
<input type="checkbox"/>	1. Horizontal Scale 1" = 40' (preferred) or 1" = 20' (Plan view)
<input type="checkbox"/>	2. Vertical scale shall be either 1" = 4' (preferred) or 1" = 2'. Scale shall match the horizontal scale, for example: 1"=4' vertical and 1"=40' horizontal. This shall be shown on the profile.
<input type="checkbox"/>	3. Pothole Connection Points. All connection points to CVWD's domestic water system shall be potholed to determine the elevation prior to plan approval. Pothole data shall be included on the plans in the profile.
<input type="checkbox"/>	4. Call out existing INV elevations and existing STA numbers, with existing drawing numbers at connection points. Show a STA equation to existing STA at connection point. This shall be shown on the profile.
<input type="checkbox"/>	5. If pipeline continues on separate sheet, call out match line with stationing and INV elevation on both sheets listing the corresponding sheet number. This shall be shown on both plan and profile.
<input type="checkbox"/>	6. Include dimension line from beginning of pipe segment to end of pipe segment with INV elevations, distances, size, material, pressure class and slope of pipeline. A construction note shall not be used in lieu of this callout. This shall be shown on the profile.
<input type="checkbox"/>	7. Call out all fitting locations with stationing on the profile and match with plan view callouts and stationing.
<input type="checkbox"/>	8. Include the following note on the plan and profile of all the drawing sheets: <i>"FURNISH AND INSTALL XX – INCH ZINC COATED DUCTILE IRON PIPE, WATER MAIN CLASS XXX, WITH POLYETHYLENE ENCASEMENT V-BIO ENHANCED AND RESTRAINED JOINTS."</i>
<input type="checkbox"/>	9. Call out all existing and proposed water services, valves, fire hydrants, blowoffs, air/vac units, detector checks, sewer laterals, sewer/drainage manholes, storm drain/catch basins, irrigation baffles, irrigation standpipes, division boxes, and irrigation meters, including their respective sizes with drawing number reference. Call out all existing wet and dry utilities in general area, especially IID/SCE lines, telephone/fiber optic, and gas. Also, any dry utilities that will encroach into a CVWD easement area.

<input type="checkbox"/>	10.	Show existing CVWD domestic water stationing, elevation, and drawing number to verify connection.
<input type="checkbox"/>	11.	Gate valves shall be specified for 12" diameter pipelines and below; butterfly valves shall be specified for 18-inch diameter pipelines and above.
<input type="checkbox"/>	12.	All connections to CVWD's active water main must be made by CVWD (at Developer's expense). Include details of the proposed connections to existing CVWD water pipelines. Stub-out connection note should read as follows: "CVWD forces to install at developer's expense: (1) 12-inch Zinc Coated Flanged D.I. Tee, (3) 12-inch Flanged Gate Valves and (1) 12-inch D.I. Blind Flange. Contractor to connect to 12-inch Flanged Gate Valve under CVWD inspection. Developer to maintain installation area, install final paving and raise valves to final grade."
<input type="checkbox"/>	13.	New pipeline stationing should start at STA 10+00 and call out 100-foot stationing along pipeline alignment. All pipeline appurtenances including but not limited to tees, bends, valves, hydrants, services and detector checks are to be stationed and labeled with size and material. Show station equation to existing station at connection point. This applies to both plan and profile.
<input type="checkbox"/>	14.	Call out street names or line references.
<input type="checkbox"/>	15.	Water pipelines and appurtenances including but not limited to tees, bends, valves, hydrants, blowoffs, services (including meters and backflows), and detector checks shall not be installed under or across any parking stalls, planters, sidewalks, etc. All water pipelines shall be installed within roadways or drive aisles.
<input type="checkbox"/>	16.	All domestic water pipelines shall be a minimum of 4-feet deep and a minimum of 7-feet from the curb face. To the extent possible, adhere to the City's Standards, or the County of Riverside Underground Utility Locations detail (Riverside County Standard No. 817) for location of water (and sewer), as applicable.
<input type="checkbox"/>	17.	Include pipeline tangent data in tabular form and label lines on plan. Pipeline tangent data to include bearing and length.
<input type="checkbox"/>	18.	All pipelines shall be looped. The end of a pipeline should have a blow-off assembly or fire hydrant installed.
<input type="checkbox"/>	19.	All new domestic water pipelines and fittings must be zinc coated ductile iron with V-Bio Enhanced Polyethylene encasement and restrained joints. Standard DIP diameters shall be 8", 12", 18", 24" or 30" in diameter and have minimum pressure ratings: Class 350 for 12" and smaller, Class 250 for 18", and Class 200 for 24" and larger. High class pipe may be required based on pipeline depth, and as determined by the EOR with Pipe Trench Submittal.
<input type="checkbox"/>	20.	If Developer is requesting use of non-zinc coated ductile iron pipe and fittings, EOR shall submit a project specific soils report based on the soils collected at the project site identifying that the native soils are non-corrosive and include a stamped letter from a registered geotechnical engineer verifying the native soils are non-corrosive and that ductile iron (non-zinc coated) is appropriate for the waterline. The geotechnical investigation shall include borings along the proposed pipeline alignment at the depth of the proposed pipeline, spaced no more than 1,000'. <i>CVWD does not guarantee approval and will evaluate each request as part of the plan check process.</i>
<input type="checkbox"/>	21.	All pipelines, fire hydrant runs, blowoff runs, detector check runs, fittings and valves shall have restrained joints and v-bio enhanced polyethylene encasement or approved equivalent.
<input type="checkbox"/>	22.	Refer to CVWD's Approved Materials List for acceptable restrained gaskets and joints (based on pipeline diameter size).
<input type="checkbox"/>	23.	No domestic water pipe smaller than 8" in diameter shall be permitted except for blow-off assemblies, meter manifolds, fire hydrants, and detector check runs.
<input type="checkbox"/>	24.	All tees or wyes shall have (3) valves. All crosses shall have (4) valves excluding fire hydrants, detector checks, and meter manifolds. Exceptions may apply when valve locations are redundant, at CVWD's sole discretion.
<input type="checkbox"/>	25.	Valve sizes shall equal the pipeline diameter. A reducer shall be installed after the valve when connecting to a smaller pipe.
<input type="checkbox"/>	26.	All valves shall be installed perpendicular to final grade.
<input type="checkbox"/>	27.	All gate valves shall be labeled with Northing and Easting.
<input type="checkbox"/>	28.	Standard fittings for bends shall be 11¼°, 22½°, 45° and 90°. Avoid 90° around street corners.
<input type="checkbox"/>	29.	All fittings shall be flanged fittings. MJ fittings will not be permitted.
<input type="checkbox"/>	30.	Pipe deflection is not allowed off a flange fitting.

<input type="checkbox"/>	31.	For maximum deflections see Section 5, Table 5.4 of the DDM.
<input type="checkbox"/>	32.	Call out edge of pavement, curb and gutter, sidewalks, and walls.
B. SURFACE IMPROVEMENTS		
<input type="checkbox"/>	33.	Call out centerline of road versus the section line. Show dimensions off the centerline to all wet and dry utilities, curbs, easements, and rights-of-way.
<input type="checkbox"/>	34.	Call out location of existing and proposed structures, trees, retention basins, islands, guardhouses, trash enclosures, and decorative concrete, etc., in the general area.
<input type="checkbox"/>	35.	Call out steel sleeve encasements for water pipeline crossing under walls or medians per CVWD detail drawing W-40. This shall be shown on the plan and profile.
<input type="checkbox"/>	36.	Include existing and/or final grade with structures and walls and describe future access to pipeline. This shall be shown on the profile.
C. SEPARATION GUIDELINES		
<input type="checkbox"/>	37.	Minimum separation between a domestic water pipeline and sewer pipeline is 10 feet measured from outside wall to outside wall.
<input type="checkbox"/>	38.	Minimum separation between a domestic water pipeline and recycled water/non-potable/storm water pipelines is 10 feet measured from outside wall to outside wall.
<input type="checkbox"/>	39.	Minimum separation between a domestic water pipeline and a septic tank or cesspool is 25 feet.
<input type="checkbox"/>	40.	Minimum separation between a domestic water pipeline and a sewage leach field or seepage pit is 25 feet.
<input type="checkbox"/>	41.	Blow-off assemblies: For 8-inch water pipelines install a 4-inch blow-off assembly. For water pipelines greater than 8-inch, install a 6-inch blow-off assembly.
<input type="checkbox"/>	42.	Include all existing and proposed wet and dry utility and storm drain crossings with depth and separation. All water pipeline crossing under a wet utility with less than 18-inches and greater than 12-inches of vertical separation may require a control density fill (CDF) or slurry fill from springline of upper pipe to springline of lower pipe. In this case, the call out shall read as follows: <i>“Contractor to install 2-sack slurry from springline of upper pipe to springline of lower pipe. Slurry can be omitted when lower pipe is installed prior to upper pipe. Contractor to verify if lower pipe is installed under direct CVWD inspection.”</i> This shall be included on the profile.
<input type="checkbox"/>	43.	Division of Drinking Water Variance. Domestic Water pipelines crossing under non-potable pipelines such as sewer, recycled water, irrigation, and/or stormwater will not be allowed unless a variance approval from the California Department of Public Health is granted. Upon request of EOR, CVWD will submit approval request to the California Department of Public Health. This information shall be included on the profile.
D. REQUIREMENTS FOR SERVICE LINE(S)		
<input type="checkbox"/>	44.	Call out all water service lines with stationing and service size. Service connections must be sized per Water Service and Water Meter Sizing Guidelines Chart.
<input type="checkbox"/>	45.	Show Water Service, Water Meter Sizing, and Backflow Device Type and Size, table on plans for each service location, prepared by EOR. Refer to chart guidelines in Appendix E of the DDM.
<input type="checkbox"/>	46.	Call out lot lines and lot numbers. Show driveways or entranceways if known. Domestic water service lines/meters and sewer laterals are not allowed in the driveways, sidewalks, and/or hardscapes. Water services are typically installed near lot lines.
<input type="checkbox"/>	47.	Domestic water service lines are installed perpendicular to the domestic water pipelines. It is acceptable to come off at an angle in cul-de-sacs and on bends. Ensure that the service line is straight from the meter.
<input type="checkbox"/>	48.	A water service connection shall be installed to each suite within a commercial/industrial building if the owners are different. The same owner can request a single larger service line. Each service shall identify building number it will be serving.
<input type="checkbox"/>	49.	All irrigation service lines/meters should be called out but must be approved by CVWD Water Management through a landscape plan.
<input type="checkbox"/>	50.	Detector check note: <i>“Contractor to install (1) 12-inch x 6-inch flanged zinc coated ductile iron tee, (1) 6-inch flanged gate valve and 30-feet of zinc coated ductile iron pipe with restrained joints and v-bio enhanced polyethylene encasement, and 6-inch ductile iron blind flange. CVWD forces to install (1) 6-inch double detector check at Developer’s expense after new pipeline has been pressure tested, chlorinated and progressed for service.”</i> Identify on the plans which building or suite the service line will serve.

- 51. Commercial properties shall have an above ground double detector check (DCDA) installed for each parcel or building unless the system meets special requirements in which a reduced pressure detector check (RPDA) shall be installed, see Section 5 of the DDM for requirement details. Fire Systems section on page 6 must be filled out.
- 52. **Call out a separate profile detail for special construction** (i.e. storm drain/catch basin crossing, siphons, pipeline crossings and utility crossings) showing invert, slope, stations, depths and separation, if not already shown on plans.

E. MINIMUM SEPARATION GUIDELINES FOR SERVICE LINE(S)

- 53. Minimum distance between domestic water service lines is 2 feet.
- 54. For a cluster of 4 domestic water service lines or more a meter manifold will be required. No more than 6 domestic water services will be allowed per meter manifold assembly. Meter manifold shall be designed per CVWD Standard Detail W-13B.
- 55. Minimum distance between a domestic water service line and a bend is 2 feet.
- 55. Minimum distance between a domestic water service line and a fire hydrant run is 4 feet.
- 56. Minimum distance between a domestic water service line and a detector check is 4 feet.
- 57. Minimum separation between a domestic water service line and sewer lateral or sewer manhole is 10 feet, measured from the outside of the manhole.
- 58. Minimum separation between a domestic water service line and a catch basin is 4 feet.

F. FIRE HYDRANTS

- 59. Fire hydrants should be located and spaced as required by the local Fire Authority.
- 60. Fire hydrants are installed a minimum of 6 feet from the end of curve or beginning of curve. Ensure that they are not installed in an area where they can easily be damaged by vehicles.
- 61. If required by the local Fire Authority, CVWD’s minimum distance between a block wall and a fire hydrant is 6 feet or greater.
- 62. All fire hydrant runs shall use restrained joint piping and a thrust block at the hydrant.
- 63. No services are allowed off a detector check, fire hydrant, or blow-off run. No bends are allowed in fire hydrant and/or detector check runs.
- 64. If required by the local Fire Authority, CVWD’s minimum separation between detector check and fire hydrant is 6 feet or greater.

G. WELL SITES. SEE WELL SITE CHECKLIST FOR COMPLETE REQUIREMENTS

- 65. **Call out well sites on the plans.** CVWD well sites must be approved by Domestic Water Engineering staff. Well sites should have a minimum 12-inch diameter line stubbed into the site. **Call out and include the following note on the 12-inch stub into the well site:** *“Furnish and Install (1) 12-inch x 12-inch x 12-inch Flanged Zinc Coated D.I. Tee, (2) 12-inch Flanged D.I. Gate Valves, (1) 12-inch D.I. Blind Flange, (1) 4-inch or 6-inch D.I. blow-off assembly, (1) 12-inch x 4-inch or 12-inch x 6-inch Flanged Zinc Coated D.I. Reducer. Pipeline going into the well site must have steel sleeve if it is installed under the wall. Show property line and any easements around well site.”*
- 66. Domestic water well sites shall be a minimum of 150 feet x 150 feet (0.5 acre) in dimension if blow-off water is being directed to an offsite retention basin or other facility. If blow-off water is being contained within an onsite retention basin, then the well site requirement is 0.75 acre to 1.0 acre depending on site configuration.

IV. RIGHT OF WAY

- 1. Indicate by checking below how easements will be dedicated to CVWD:
 _____ Tract Map
 _____ Separate Grant of Easement - Instrument no. / recording date: _____
Legals and Plats depicting easement(s) must be reviewed and approved by CVWD’s licensed Land Surveyor prior to Plan approval.
- 2. All facilities and appurtenances must be within CVWD easements.
- 3. Easements shall be referred to as “Existing” – not “Future” or “Proposed.”
- 4. Provide a copy of all referenced easements, dedications, tract/parcel maps, PUEs, patents, etc.

<input type="checkbox"/>	5.	Include a CVWD Easement Reference Table with all CVWD and/or USBR easements or fee title listed on all sheets. Each easement shall be labeled with a number. See Easement Example Drawings in Appendix E of the DDM for table and callout examples.
<input type="checkbox"/>	6.	If easements or fee title are dedicated per separate document, include the instrument/document number, recorded date, map book and page (if applicable), and easement/fee title width (if variable, add to each sheet).
<input type="checkbox"/>	7.	If easements are dedicated per tract/parcel map, include the map book and page(s).
<input type="checkbox"/>	8.	List the easement facility type(s) (ex. domestic water, sanitation, irrigation, etc.) Show easement callouts in street cross sections and plan views. Use blank spaces as place holder for recording information until tract/parcel map or separate document is recorded.
<input type="checkbox"/>	9.	If land patent rights are being used, include the patent number, recorded date and width.
<input type="checkbox"/>	10.	All federal lands must be identified, such as Bureau of Indian Affairs (BIA), Indian Tribal land, Bureau of Land Management (BLM), Bureau of Reclamation (USBR), etc. BIA rights extend to the section lines regardless of road ROW. It is imperative that section lines and road centerlines are identified on plans with BIA or other federal rights. If the cities or county do not hold PUE rights within these federal lands, CVWD must obtain rights pursuant to current federal regulations. This is a lengthy process that should be initiated at first plan check submittal.
<input type="checkbox"/>	11.	For 10-foot PUEs that are dedicated to the public and CVWD, label as "10-foot PUE/CVWD Easement" and list in CVWD Easement Reference Table.
<input type="checkbox"/>	12.	For public streets, call out public right-of-way and CVWD and/or USBR easements (if applicable).
<input type="checkbox"/>	13.	For water pipelines at a depth of less than 10 feet, the domestic water easements shall be a minimum of 20 feet wide, with the water pipeline centered in the easement. Domestic water and sanitation easements shall be a minimum of 32 feet wide. No permanent structures, trees, or shrubs are allowed in CVWD easements. The easement width requirement excludes the PUE width.
<input type="checkbox"/>	14.	If water pipeline is at a depth of more than 10 feet deep, the width of easement shall be the equivalent of two times the depth of pipe. If walls are on both sides of water pipeline, the width of the easement shall be triple the depth of the pipe for a larger easement. The easement width requirement excludes the PUE width.
<input type="checkbox"/>	15.	Facilities that extend past the easement and PUE such as meter boxes, backflow devices, etc. will require a pop out easement. The dimensions to the pop out easement will be determined based on the type of facility. The plan must have a detail that depicts this information. A site-specific detail must be shown for meters that clearly show the meter box and backflow with easement/ROW/PUE line. Easement dimensions for CVWD appurtenances shall be as follows: <ul style="list-style-type: none"> • Meter and backflow – 2' each side of meter and 12" past the back of backflow • Fire hydrant – 5' all around • Detector check – 5' all around • Air vac – 2' all around • Blow off – 5' all around If there is more than one appurtenance within a pop out easement, then the easement is a complete strip 5' each end. No gaps in between.

V. FIRE SYSTEMS FOR COMMERCIAL DEVELOPMENTS

All developer plans showing fire system connections shall answer the following questions with a number, check mark or N/A, to determine the applicable backflow device (DCDA or RPDA) per Section 5 of the DDM.

1.	Number of detector checks	
2.	Fire System is only a direct connection to building	
3.	Fire System is a direct connection with booster pump only	
4.	Fire System has private on-site hydrants	
5.	Fire System has auxiliary water supply and booster pump	
6.	Fire system has antifreeze or other additives	
7.	Fire system has other – please explain.	

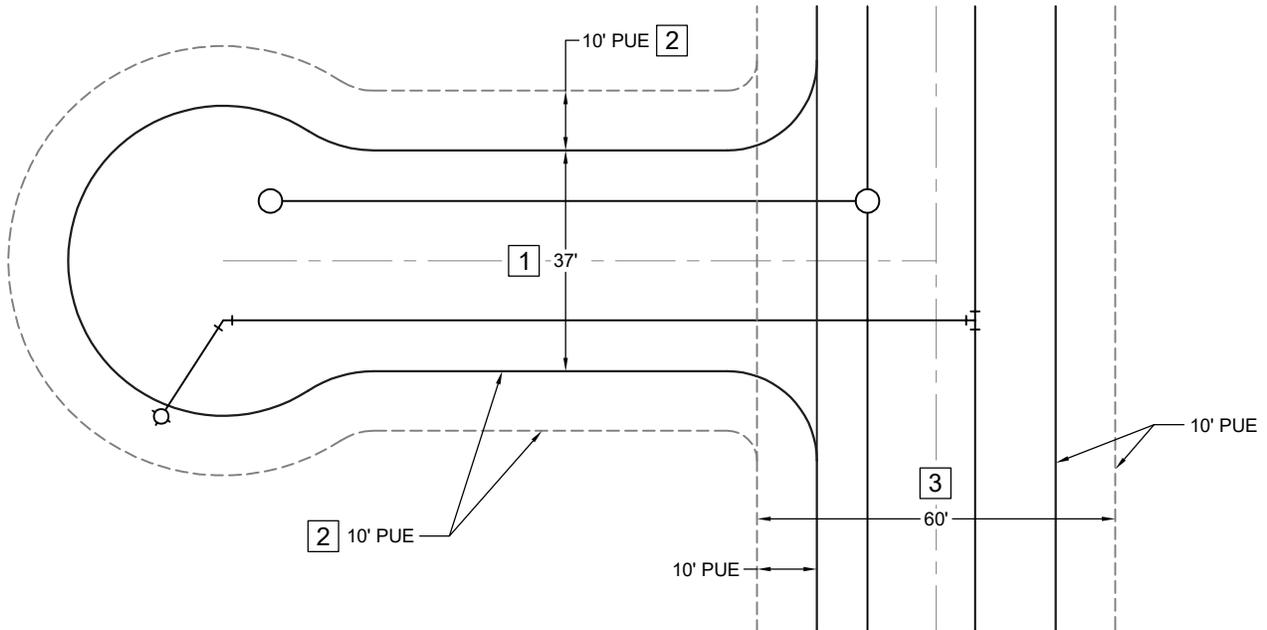
ENGINEER OF RECORD

I hereby acknowledge that all items on this list have been reviewed and are addressed in the plans.

Signature

Printed Name

Date

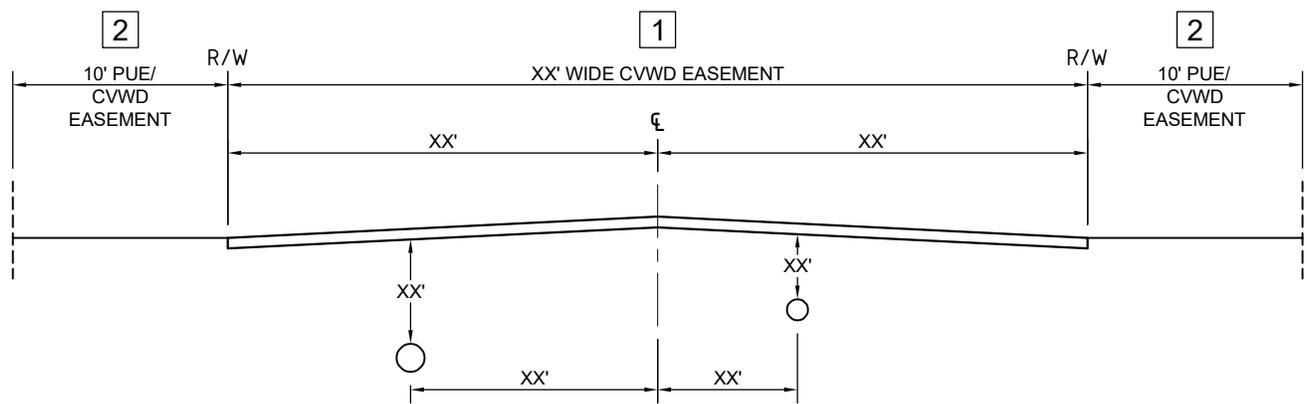


PLAN VIEW
(PRIVATE STREETS)

RIGHT-OF-WAY REFERENCE TABLE				
EASEMENT/ FEE	PER	INST / DOC NO. REC DATE	MAP BOOK / PAGE	FACILITY TYPE
1 CVWD	TRACT 12345	--	XXX / XXX-XXX	DOMESTIC WATER & SANITATION
2 PUE / CVWD	TRACT 12345	--	XXX / XXX-XXX	DOMESTIC WATER & SANITATION
3 CVWD	SEPARATE DOCUMENT	INST. NO. 98765 REC 12/12/1988	-	DOMESTIC WATER & SANITATION

CVWD EASEMENT REFERENCE DATA	
1	CVWD EASEMENT OVER PRIVATE STREETS FOR DOMESTIC WATER & SANITATION PURPOSES PER TRACT MAP 12345, MB XXX/XXX
2	10' PUE / CVWD EASEMENT PER TRACT MAP 12345, MB XXX/XXX
3	CVWD EASEMENT OVER PRIVATE STREETS FOR DOMESTIC WATER & SANITATION PURPOSES PER SEPARATE DOCUMENT, INST NO. 98765, REC. 12/12/1988

OR



CROSS SECTION
(PRIVATE STREET)



COACHELLA VALLEY WATER DISTRICT

**EASEMENT EXAMPLE DRAWING
PRIVATE STREETS**

APPROVAL DATE: 1/5/26

EASEMENT - 1

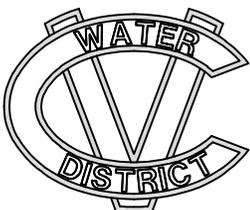
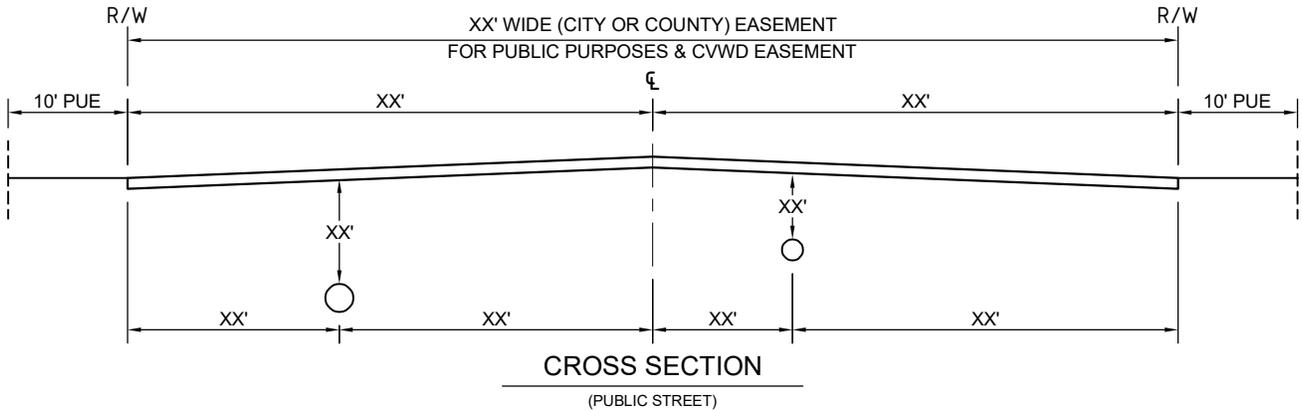
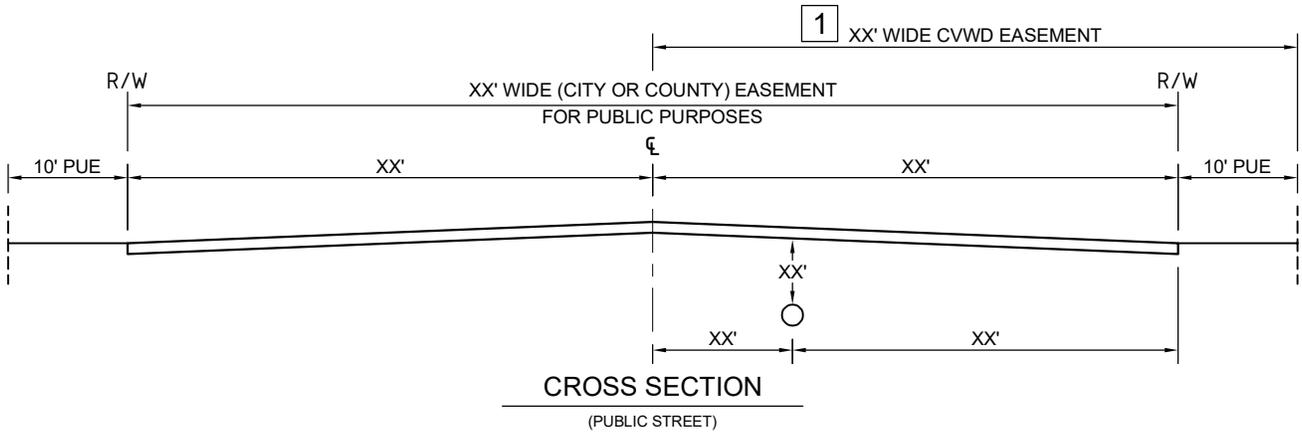
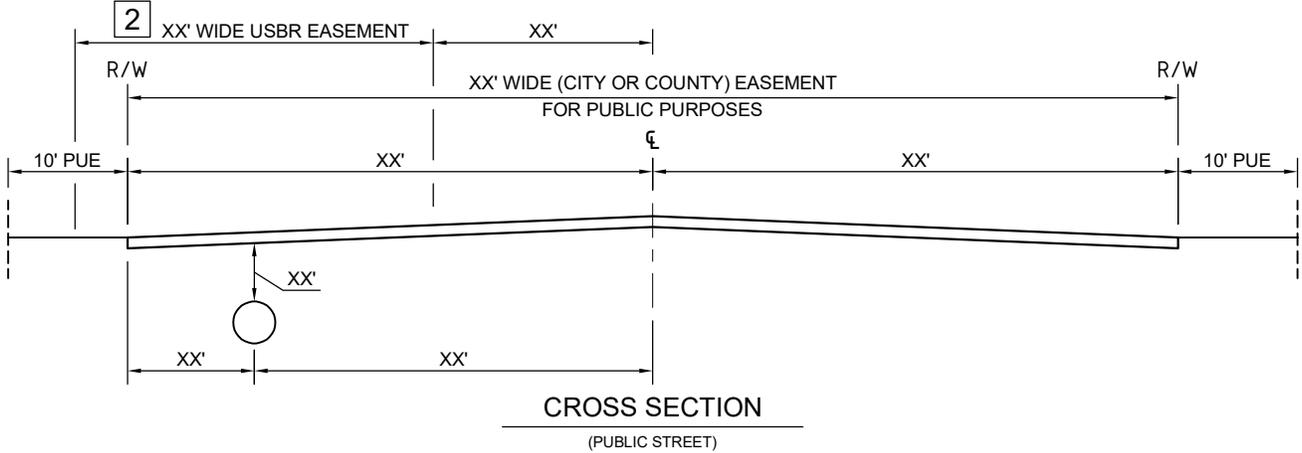
RIGHT-OF-WAY REFERENCE TABLE

EASEMENT/ FEE	PER	INST / DOC NO. REC DATE	MAP BOOK / PAGE	FACILITY TYPE
1 CVWD	SEPARATE DOCUMENT	DOC NO. 2013-012345 REC 6/6/2013	--	SANITATION
2 USBR	SEPARATE DOCUMENT	INST NO. 1023 REC 9/9/1945 PARCEL C-X-XX	--	IRRIGATION

CVWD EASEMENT REFERENCE DATA

- 1 CVWD EASEMENT OVER PUBLIC STREETS FOR SANITATION PURPOSES PER SEPARATE DOCUMENT, DOC NO. 2013-012345, REC 6/6/2013
- 2 USBR EASEMENT OVER PUBLIC STREETS FOR IRRIGATION PURPOSES PER SEPARATE DOCUMENT, INST NO. 1023 REC. 9/9/1945 PARCEL C-X-XX

OR

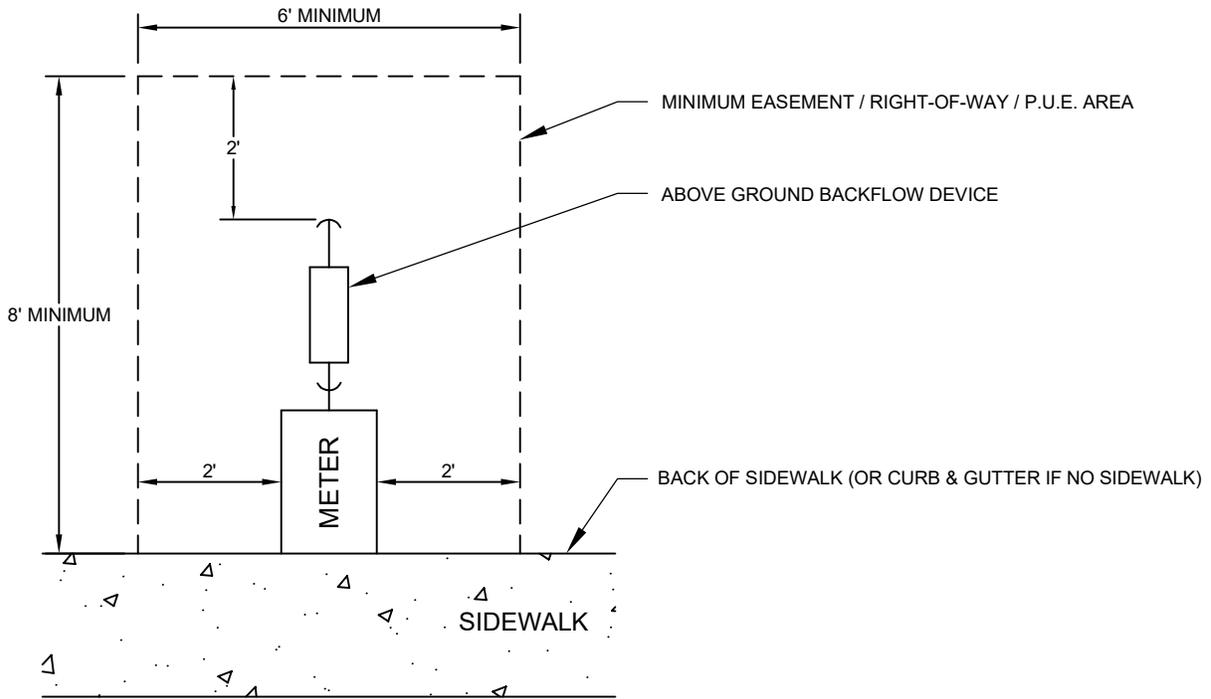


COACHELLA VALLEY WATER DISTRICT

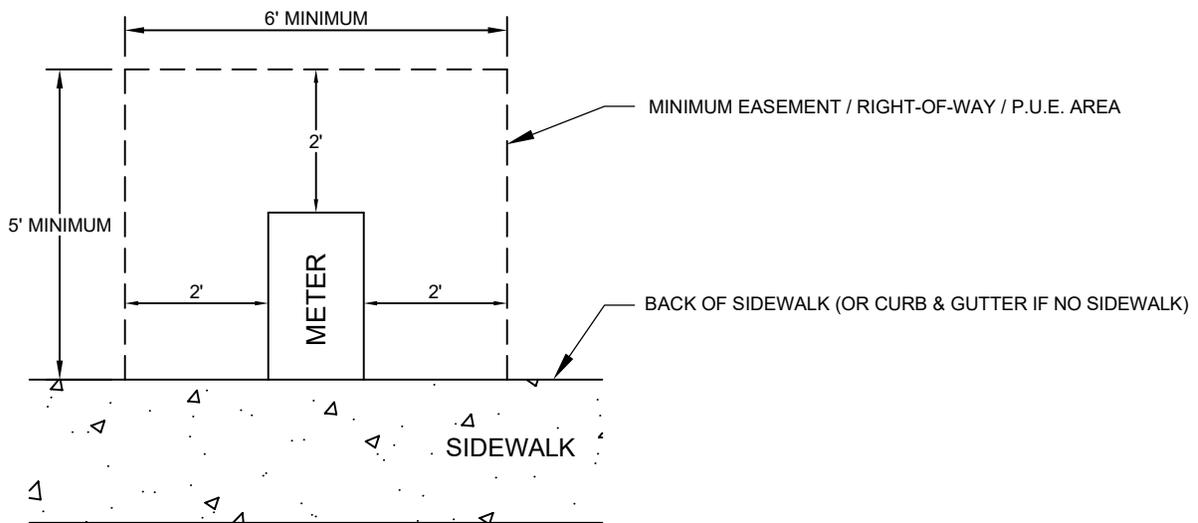
**EASEMENT EXAMPLE DRAWING
PUBLIC STREETS**

APPROVAL DATE: 2/26

EASEMENT - 2



METER WITH BACKFLOW



METER WITHOUT BACKFLOW

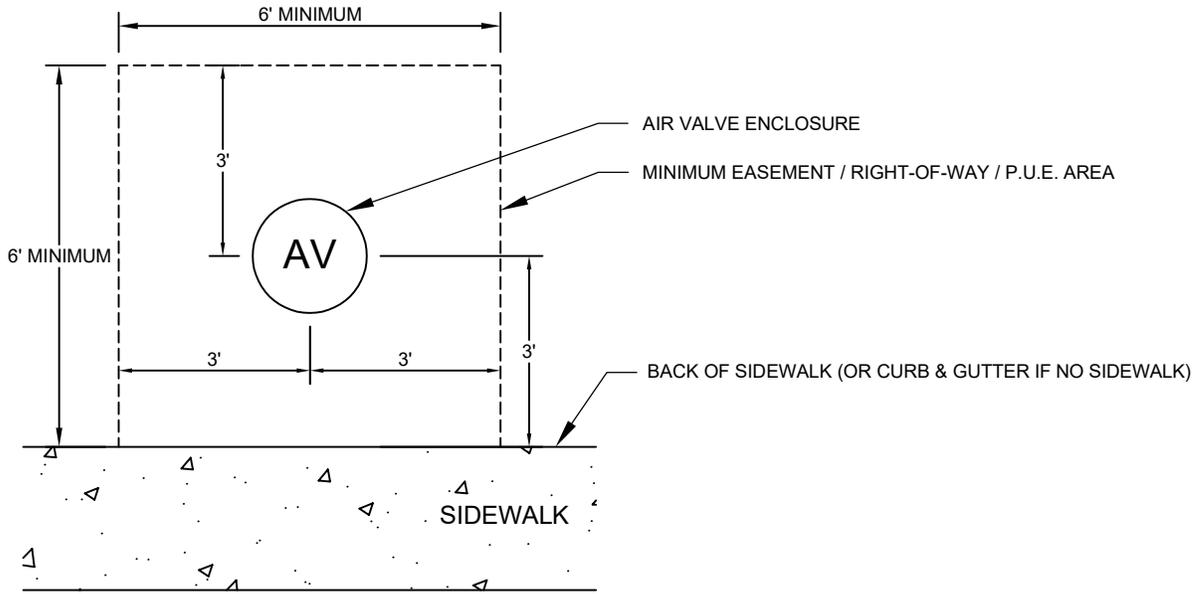


COACHELLA VALLEY WATER DISTRICT

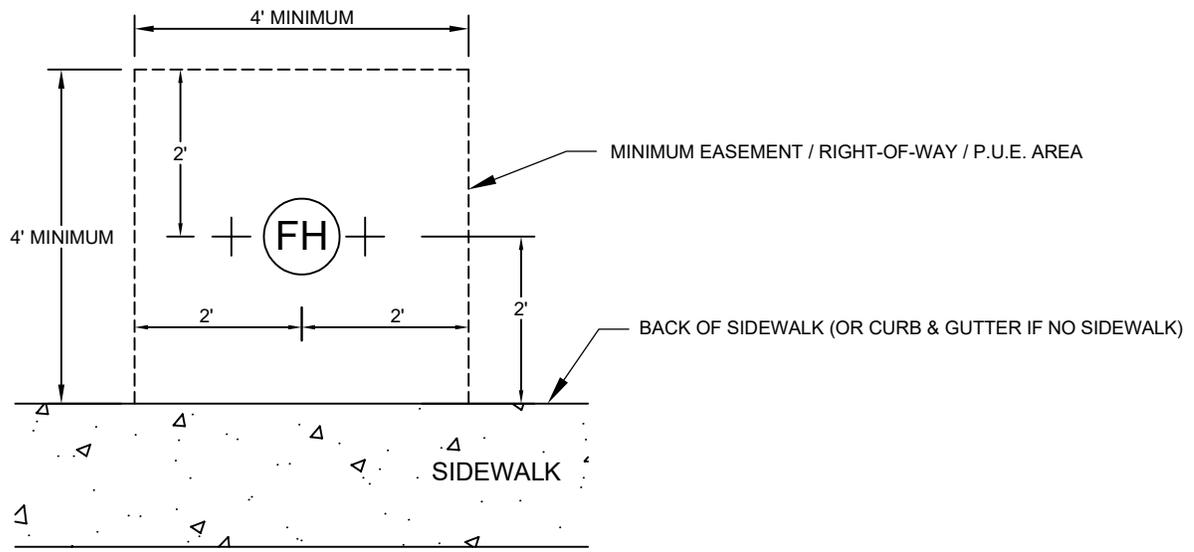
**EASEMENT EXAMPLE DRAWING
DOMESTIC WATER METER FACILITIES**

APPROVAL DATE: 2/26

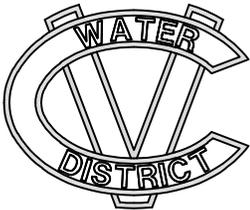
EASEMENT - 3



AIR VALVE



FIRE HYDRANT



COACHELLA VALLEY WATER DISTRICT

**EASEMENT EXAMPLE DRAWING
DOMESTIC WATER FACILITIES**

APPROVAL DATE: 1/5/26

EASEMENT - 4