

# TUCSON WATER-NEW DEVELOPMENT

*(Effective Date: March 1, 2024)*

## FIRST DESIGN REVIEW - WATER PLAN CHECKLIST

**(INCOMPLETE SUBMITTALS WILL NOT BE ACCEPTED)**

Checklist filled out by: \_\_\_\_\_ Signature: \_\_\_\_\_

PROJECT NAME: \_\_\_\_\_ Sec. \_\_\_\_\_, T \_\_\_\_\_ S, R \_\_\_\_\_ E  
*(Including PHASE#, If applicable)*

DESIGNER: \_\_\_\_\_ FIRM: \_\_\_\_\_ DATE: \_\_\_\_\_

Do you request a copy of the as-built? Yes  No  \_\_\_\_\_ County  C.O.T.

<b>ITEMS TO BE SUBMITTED WITH PLAN</b>			
VERIFIED	ITEM	VERIFIED	ITEM
	1. CURRENT COPY OF PLAN WITH ENGINEER'S STAMP		5. <b><u>SELECT AT LEAST ONE:</u></b> _____ FINAL PLAT, RECORDED OR NOT _____ RECORD OF SURVEY _____ RECORDED LEGAL DESCRIPTION REFLECTING CURRENT PROPERTY LIMITS (FULL-SIZE: 24"X36")
	2. APPROVED MASTER PLAN REDLINES WITH TUCSON WATER COMMENTS (Originals)		6. IMPROVEMENT PLANS, SITE DEVELOPMENT <b><u>AND</u></b> LANDSCAPE PLANS (FULL-SIZE: 24"X36")
	3. NEW UNRECORDED EASEMENT DESCRIPTIONS WITH CURRENT TITLE REPORT (2 MONTH OLD MAXIMUM) <b><u>AND</u></b> ANY RECORDED LEGAL DESCRIPTIONS FOR EXISTING EASEMENTS		7. UNDERGROUND ELECTRIC LAYOUT (FULL-SIZE)
	4. ITEMIZED "COST ESTIMATE & MATERIAL TAKEOFF" WITH PLAN NAME REFERENCED.		8. DESIGN REVIEW FEE (CREDIT CARD ONLY) VERIFY THE CORRECT AMOUNT

<b>DRAFTING REQUIREMENTS (COMMERCIAL AND RESIDENTIAL)</b>	
<b>VERIFIED</b> <input checked="" type="checkbox"/> or Initial)	<b>ALL SHEETS</b>
	1. PLAN SIZE <b><u>MUST BE</u></b> 24" X 36", TUCSON WATER-NEW DEVELOPMENT FORMAT (STANDARD TITLE BLOCK, CURRENT TW LOGO& AS-BUILT BLOCK & BLUE STAKE LOGO SEE DESIGN STANDARD ILLUSTRATIONS) <a href="#">Design Standards Illustrations 2023</a> <b><i>(SUBMIT ONE COPY)</i></b>
	2. <b><u>ALL LETTERING AND SYMBOL SIZE: 1/8" MINIMUM HEIGHT AND LEGIBLE</u></b>
	3. TW NORTH ARROW AND SCALE, <b><i>(LOCATED IN THE UPPER RIGHT CORNER OF EACH PLAN SHEET.)</i></b>
<b>VERIFIED</b> <input checked="" type="checkbox"/> or Initial)	<b>COVER SHEET</b>
	4. <b><u>STANDARD LOCATION MAP:</u></b> -C.O.T. WARD OR COUNTY SUPERVISOR DISTRICT IDENTIFIED -LATITUDE AND LONGITUDE (SOURCE OF DATA) -TOWNSHIP & RANGE, & SECTION <b><i>(ALL INFORMATION PLACED UNDER LOCATION MAP)</i></b>
	5. GENERAL NOTES AND LEGEND <b><i>(SYMBOLS ON LEGEND <u>MUST MATCH</u> WHAT IS ON PLAN)</i></b>
	6. ALL SHEET MATCH LINES, MAIN SIZES, AND ZONES TO BE CALLED OUT ON WATER PLAN.
	7. IT WILL REFLECT INTERIOR SHEETS AND SHOWS ALL ELEMENTS OF THE WATER SYSTEM <b><u>(DO NOT INCLUDE WATER SERVICES)</u></b>
	8. BASIS OF BEARING, STATION MONUMENTS (TWO) AND BASIS OF ELEVATION (NAVD 88 DATUM)
	9. OWNER AND DEVELOPER INFORMATION. CONSULTANT'S LOGO
	10. RESPONSIBLE PARTY FOR FIRE SERVICE BILLING IDENTIFIED

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<b>DESIGN REQUIREMENTS (COMMERCIAL AND RESIDENTIAL)</b>	
<b>VERIFIED</b>  or Initial)	<b>ALL SHEETS</b>
	11. PROJECT BOUNDARY & LOT LINES WITH ADJACENT PROPERTIES IDENTIFIED.
	12. PHASE LINES (IF APPLICABLE)
	13. DEVELOPMENT TIED DOWN, <b>STA 10+00 ON SURVEY MONUMENT</b> W/APPLICABLE STATIONING.
	14. RIGHTS-OF-WAY, FULL WIDTH SHOWN, WITH STREET NAMES LABELED PUBLIC OR PRIVATE.
	15. APPLICABLE EASEMENTS, EXISITING & PROPOSED, & LABEL EASEMENTS.
	16. PLAN MATCHES EASEMENT DESCRIPTIONS, P.O.B., BEARINGS, DISTANCES, ETC. CALLED OUT ON THE RECORDING DOCUMENT.
	17. TOP OF PIPE/BOTTOM OF PIPE AND VERTICAL SEPARATION CALLED OUT AT ALL WATER/ SEWER CROSSINGS AND POTABLE/RECLAIMED CROSSINGS.
	18. EXISTING WATER SYSTEM SHOWN CORRECTLY AND LABELED.
	19. EXISTING AND PROPOSED PAVING, UTILITES, DRAINAGE FACILITIES AND OTHER OBSTRUCTIONS IN THE VICINITY OF NEW WATER CONSTRUCTION.
	20. OFF-SITE OR RIGHT-OF-WAY IMPROVEMENT(S) ASSOCIATED WITH THE PROJECT.
	21. DIMENSION FROM CONNECTIONS TO ALL EXISTING VALVES THAT MAY NEED TO BE CLOSED DURING CONNECTION.
	22. ALL NEW WATER SYSTEM PLOTTED <b><u>BOLD</u></b> .
	23. MAIN SIZES, CONFIGURATION ACCEPTABLE PER MASTER PLAN REVIEW W/ COMMENT COMPLIANCE.
	24. NO PVC PIPE FLEXURE OR JOINT DEFLECTION.
	25. ABANDON EXISTING MAINS
	26. <b>PROFILE REQUIRED FOR 4" OR LARGER MAINS</b> (SEE DESIGN STANDARD ILLUSTRATIONS)
	27. PROTECTED MAIN, PROPOSED & EXISTING, WITH APPLICABLE NOTES
	28. CORROSION TEST STATIONS FOR DUCTILE IRON OR CONCRETE CYLINDER, 16" OR LARGER, NEW & EXISTING, SHOW & LABEL ( <b><i>MUST BE REVIEWED BY CTS UNIT</i></b> )
	29. VALVING ACCEPTABLE (2 FOR TEE, 3 FOR CROSS AND MAXIMUM SPACING (500' COMMERCIAL AND 660' RESIDENTIAL) BETWEEN IN-LINE VALVES MAINTAINED.
	30. AIR RELEASE VALVES
	31. STUBS, DRAIN VALVE ASSEMBLIES
	32. FIRE HYDRANTS PER FIRE DEPARTMENT REQUIREMENTS
	33. FIRE SERVICES (USER DEFINED)
	34. EXISTING SERVICE TIE-OVERS, RENEWALS, RELOCATIONS, AND ABANDONMENTS.
	35. METERS LOCATED AT PROPERTY TO BE SERVED, 30" MINIMUM SEPARATION BETWEEN SERVICE TAPS
	36. ELECTRIC PEDESTALS & TRANSFORMERS DIMENSIONED 10' MINIMUM SEPARATION FROM SERVICES, HYDRANTS, ARV's & DVA's
	37. STATIC PRESSURE ZONES IDENTIFIED, W/ CLOSED VALVES, AND ZONE BOUNDARIES LABELED.
	38. KEYNOTE CALLOUTS IN ACCORDANCE WITH THE DESIGN STANDARD ILLUSTRATIONS
	39. STATIONING IS ACCURATE, WITH STATION EQUATIONS IF APPLICABLE.
	40. DIMENSION RIGHTS-OF-WAY, WATERLINES, UTILITIES, PAVEMENT, CENTERLINE, ETC.
	41. SPECIAL DETAILS
	42. ERASE BEHIND LETTERING, SYMBOLS, AND OTHER PERTINENT INFORMATION.
	43. PLANS STAMPED BY P.E.