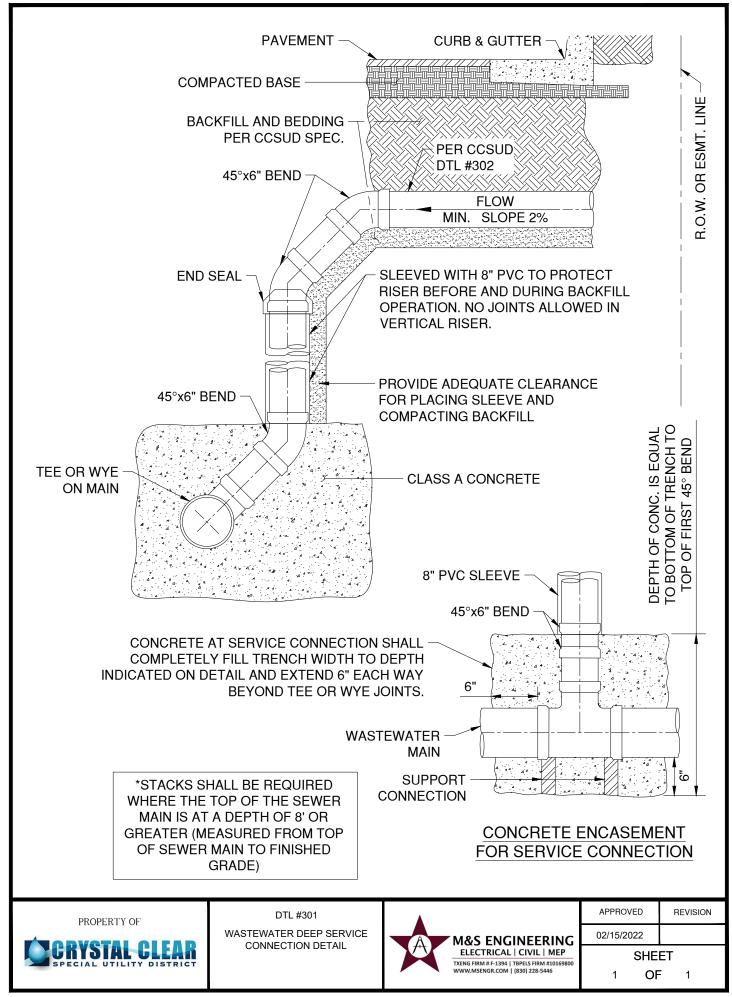
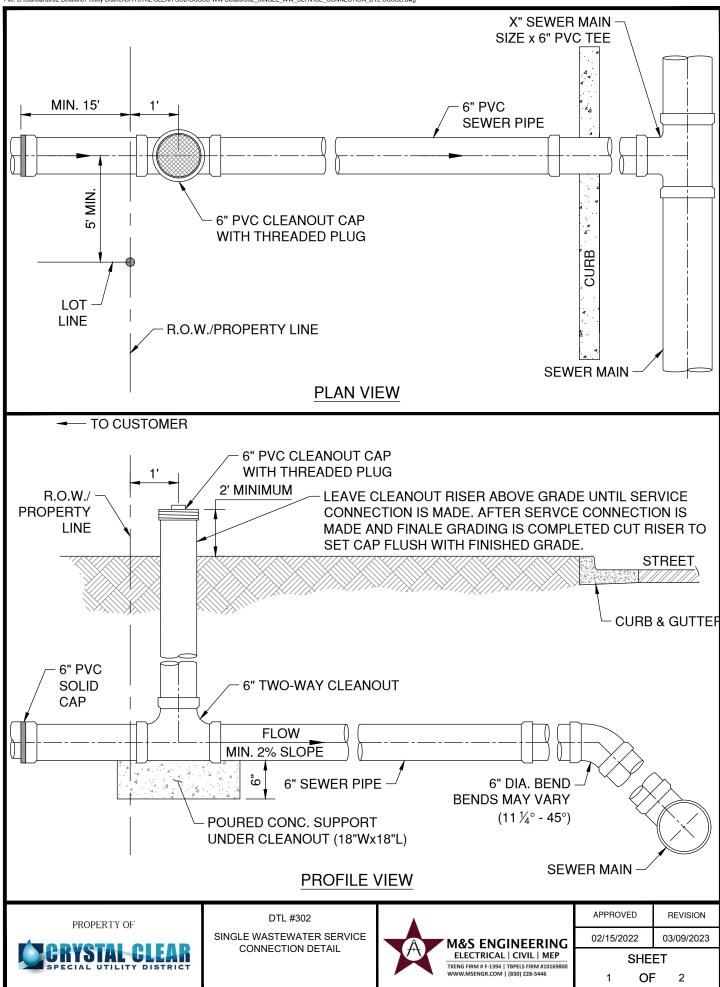
Date: Oct 24, 2022, 1:41pm User ID: kvogler File: S:\Standards\02 Details\07 Utility District/CRYSTAL CLEAR SUD\CCSUD WW Details\301_WASTEWATER_DEEP_SERVICE_CONNECTION_DETAIL CCSUD.dwg





NOTES:

- CONTRACTOR, DURING SUBDIVISION CONSTRUCTION, SHALL INSTALL WASTEWATER CONNECTION TO MAIN, 6" STUB WITH 6" SERVICE BRANCH WITH 2-WAY CLEANOUT, CONCRETE SUPPORT (MIN. 18"Wx18"Lx6"H), RISER FOR CLEAN OUT (CAPPED), MINIMUM 15' EXTENSION, AND PLUG. ALL WASTEWATER PIPING SHALL HAVE ELASTOMERIC GASKET TYPE JOINTS AND SHALL SLOPE DOWNWARD TO MAIN 2%, 1/4" PER FOOT, MINIMUM TO 45° MAXIMUM. DEPTH OF SERVICE STUB AT PROPERTY LINE WILL BE SHOWN ON PLANS BY ENGINEER OR DESIGNATED REPRESENTATIVE IF GREATER THAN 4', OTHERWISE, THE INSTALLED DEPTH WILL TYPICALLY BE 4' TO 6'. IF WASTEWATER SERVICE LINE TO MAIN REQUIRES DEFLECTION EXCEEDING 45°, REFER TO DTL #301. ALL INSTALLATIONS SHALL BE MADE IN ACCORDANCE WITH INFORMATION SHOWN ON APPLICABLE STANDARD DRAWINGS AND WILL BE INSPECTED BY CCSUD CONSTRUCTION INSPECTION PERSONNEL.
- 2. FOR NEW DEVELOPMENTS, CLEANOUTS MAY NOT BE PLACED IN PAVED AREAS (I.E. SIDEWALKS, DRIVEWAYS, OR PARKING LOTS) AND MUST BE LOCATED A MINIMUM OF 6" FROM ALL PAVED AREAS. CLEANOUTS SHALL BE HORIZONTALLY PLACED 5' FROM LOT LINE. THE WYE FOR DOUBLE SEWER TAPS SHALL NOT BE PLACED WITHIN EASEMENT.
- 3. SEWER LATERAL PIPE SHALL BE INSTALLED BENEATH OTHER UTILITIES (IF POSSIBLE) WITH A MINIMUM VERTICAL CLEARANCE OF 1' ABOVE AND BELOW SEWER PIPE.
- 4. CUSTOMER SHALL REMOVE PLUG, INSTALL 4" WASTEWATER LINE [EXTEND 4" PIPE 6" MINIMUM INTO 6" PIPE AND JOINT WITH FLEXIBLE ADAPTOR]. IF WASTEWATER WILL NOT SATISFACTORILY FLOW BY GRAVITY TO SEWER MAIN ADJACENT TO PROPERTY, PUMP EQUIPMENT MUST BE PROVIDED BY THE CUSTOMER AS PART OF CUSTOMER'S WASTEWATER SYSTEM.
- 5. CUSTOMER IS RESPONSIBLE FOR PIPING SYSTEM UNTIL WASTEWATER IS CONNECTED. ANY MISSING OR DAMAGED PARTS SHALL BE REINSTALLED BY CUSTOMER WHO SHALL GUARANTEE, FOR A PERIOD OF TWO (2) YEARS FROM DATE OF FINAL ACCEPTANCE, THAT CONNECTIONS TO CCSUD SYSTEMS ARE FREE FROM DEFECTS IN WORKMANSHIP OR MATERIALS. CUSTOMER ALSO HAS THE RESPONSIBILITY TO ASSURE THAT 2-WAY CLEANOUTS REMAIN CLEAR OF SIDEWALKS AND OTHER OBSTRUCTIONS.
- 6. CCSUD'S ACTIVITY IS LIMITED TO INSPECTION OF CONNECTIONS TO THE WASTEWATER SYSTEM. FOR MAINTENANCE PURPOSES, CCSUD'S RESPONSIBILITY ENDS AT THE CUSTOMER'S WASTEWATER CONNECTION TO THE 2-WAY CLEANOUT OR THE PROPERTY LINE, WHICHEVER IS CLOSER TO WASTEWATER MAIN.
- 7. PIPING IN STREET RIGHT-OF-WAY AND IN EASEMENT AREA SHALL BE BEDDED IN GRANULAR MATERIALS AS REQUIRED BY CCSUD STANDARD SPECIFICATION; MATERIALS SHALL BE AS SPECIFIED; BACKFILL ABOVE THE GRANULAR BEDDING. SERVICE LINES IN THESE AREAS SHALL HAVE A MINIMUM COVER BELOW FINAL STREET GRADE OF 42"; ANY EXCEPTION MUST BE SPECIFICALLY APPROVED BY THE ENGINEER.

PROPERTY OF

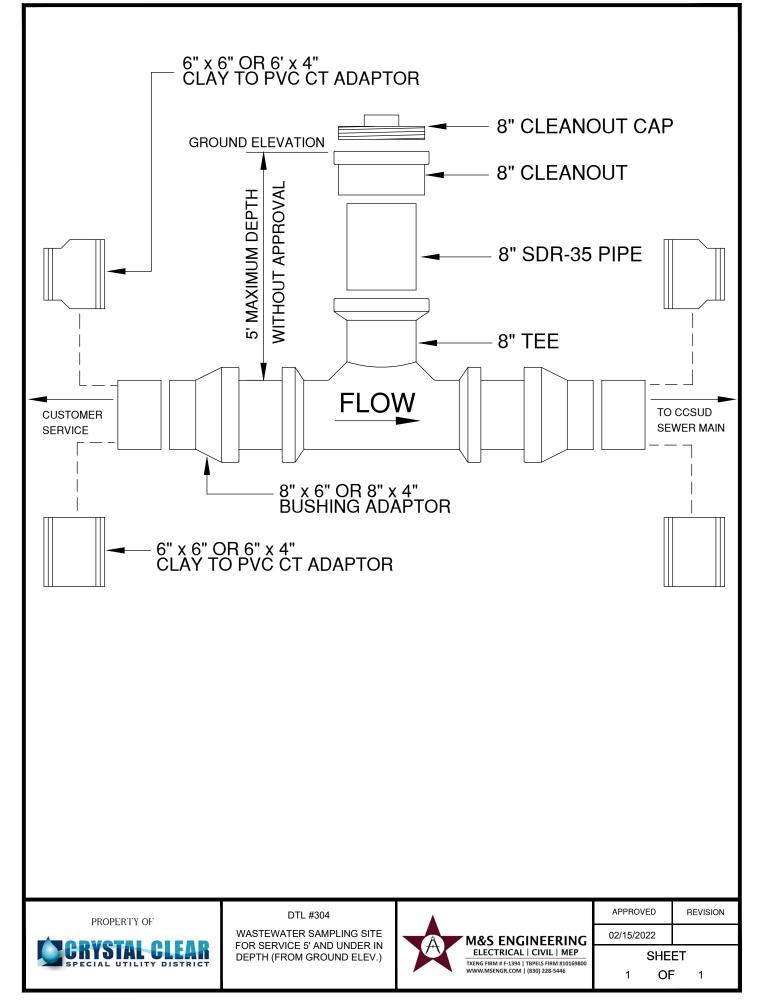


DTL #302 SINGLE WASTEWATER SERVICE CONNECTION DETAIL

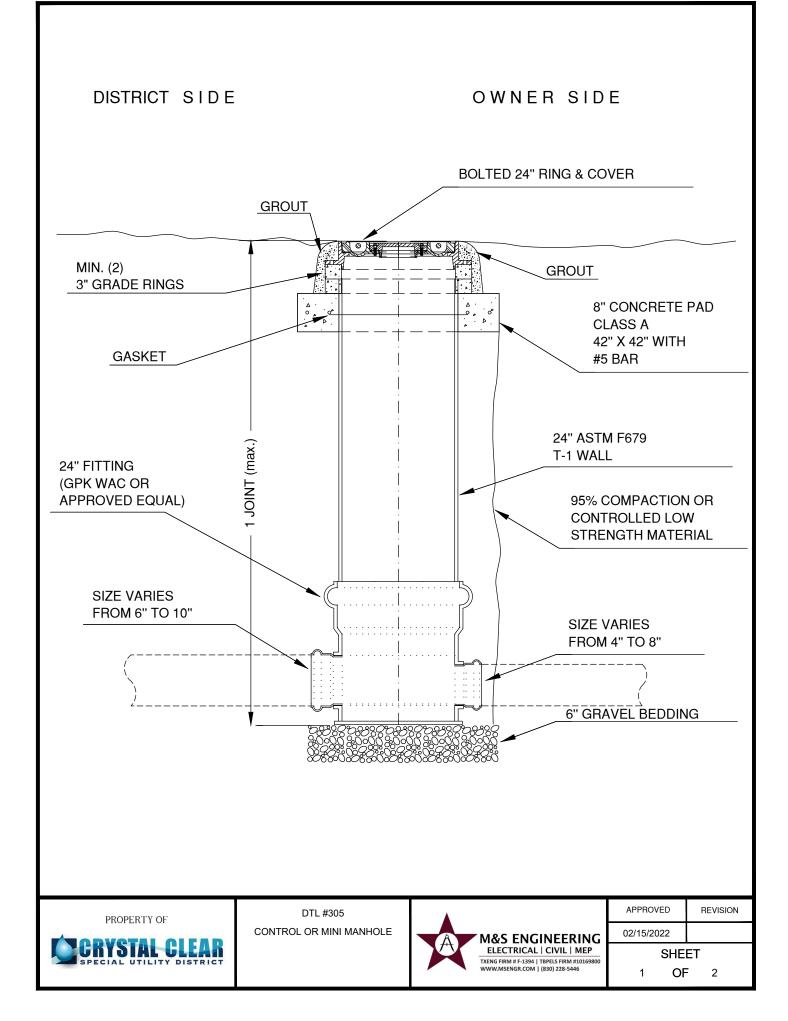


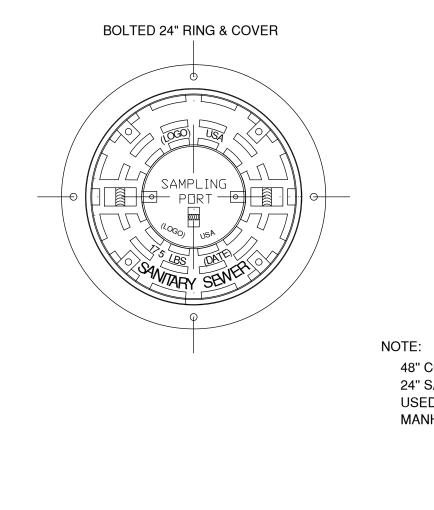
M&S ENGINEERING ELECTRICAL | CIVIL | MEP TXENG FIRM # F-1394 | TBPELS FIRM #10169800 WWW.MSENGR.COM | (830) 228-5446

APPROVED	REVISION	
02/15/2022	03/09/2023	
SHEET		
2	OF 2	



Date: Oct 24, 2022, 1:46pm User ID: kvogler File: C:_MS-CAD\C3D\2019\Temp\AcPublish_18444\305_1of2_CONTROL_OR_MINI_MANHOLE CCSUD.dwg

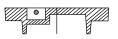




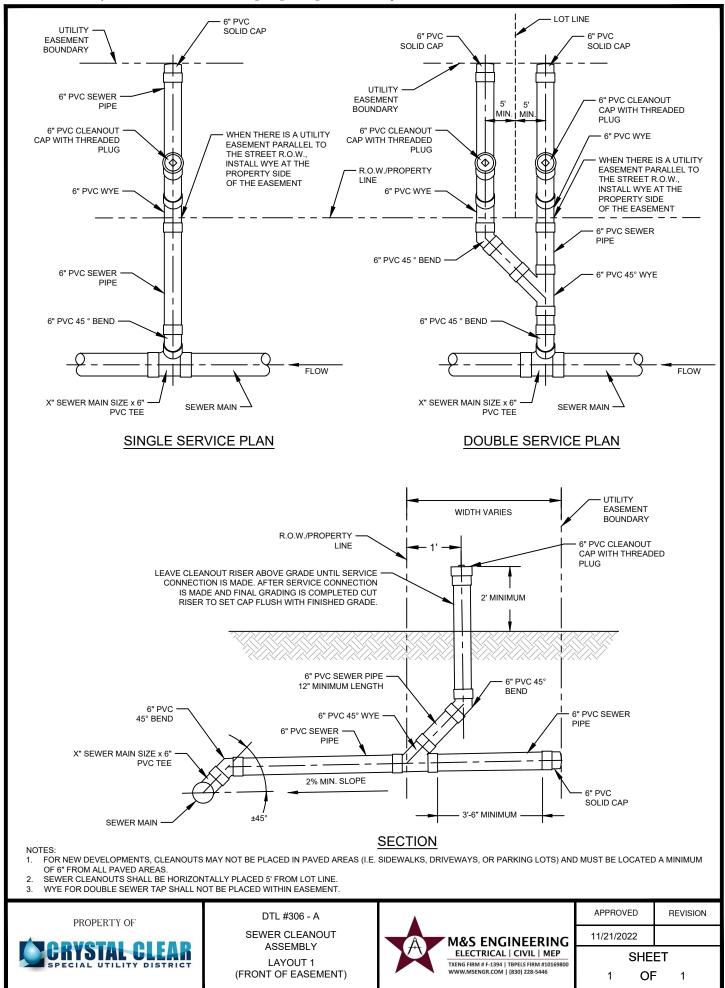
42" X 42" CONCRETE PAD

2" 42" 24" PIPE #5 BAR 2" 42" APPROVED REVISION DTL #305 PROPERTY OF CONTROL OR MINI MANHOLE 02/15/2022 **M&S ENGINEERING** STA h ELECTRICAL | CIVIL | MEP SHEET TXENG FIRM # F-1394 | TBPELS FIRM #10169800 WWW.MSENGR.COM | (830) 228-5446 UTILITY DISTRICT OF 2 2

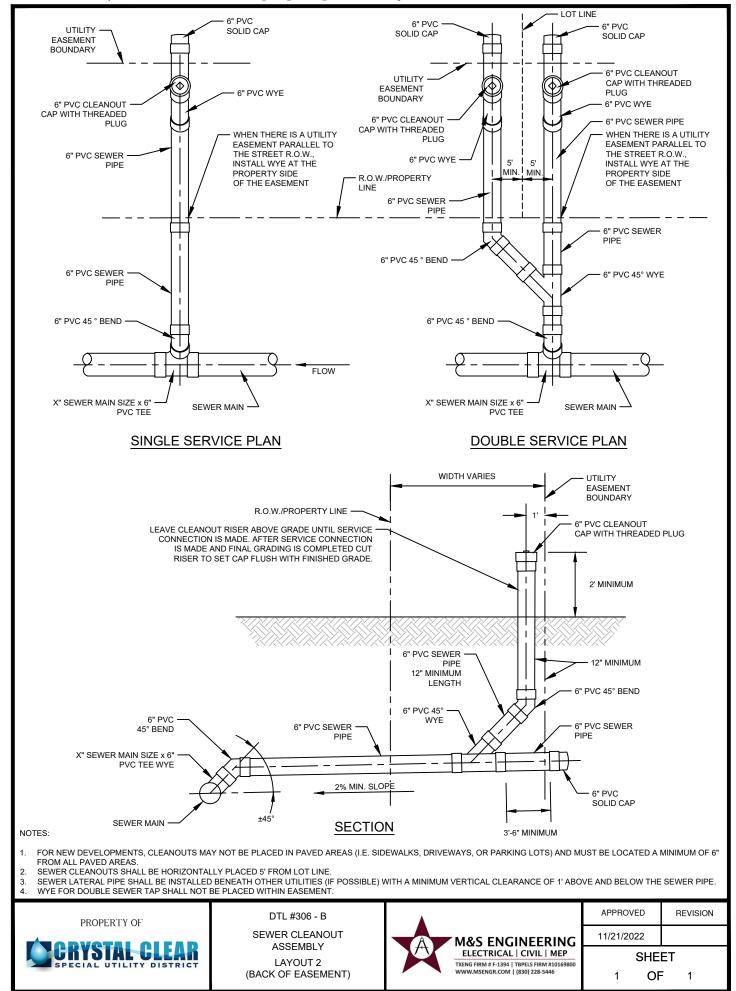
SAMPLING PORT COVER



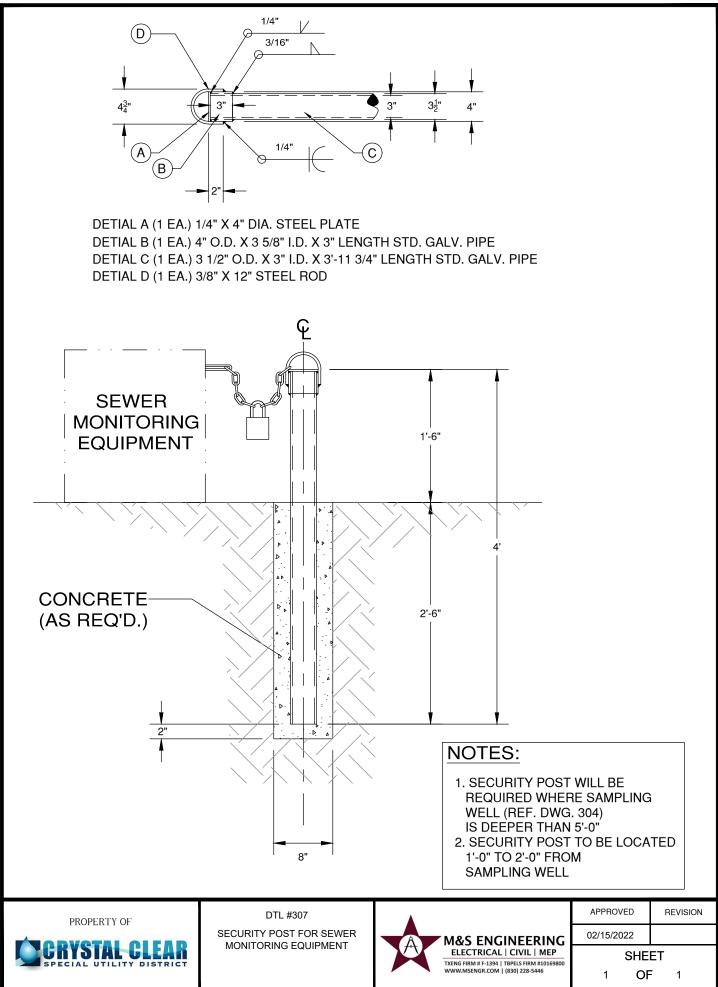
48" CONCRETE MANHOLE WITH 24" SAMPLING PORT LID MAY BE USED IN PLACE OF THIS CONTROL MANHOLE.



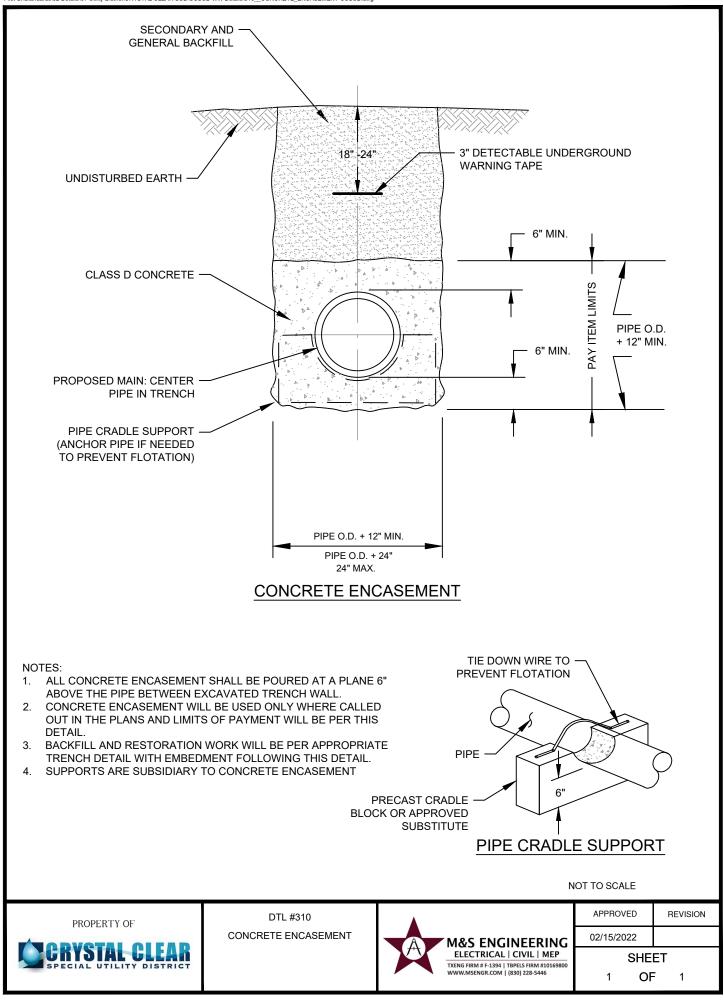
Date: Dec 05, 2022, 9:53am User ID: kvogler File: S:\Standards\02 Details\07 Utility District/CRYSTAL CLEAR SUD\CCSUD WW Details\306_SEWER_CLEANOUT_ASSEMBLY LAYOUT 1.dwg

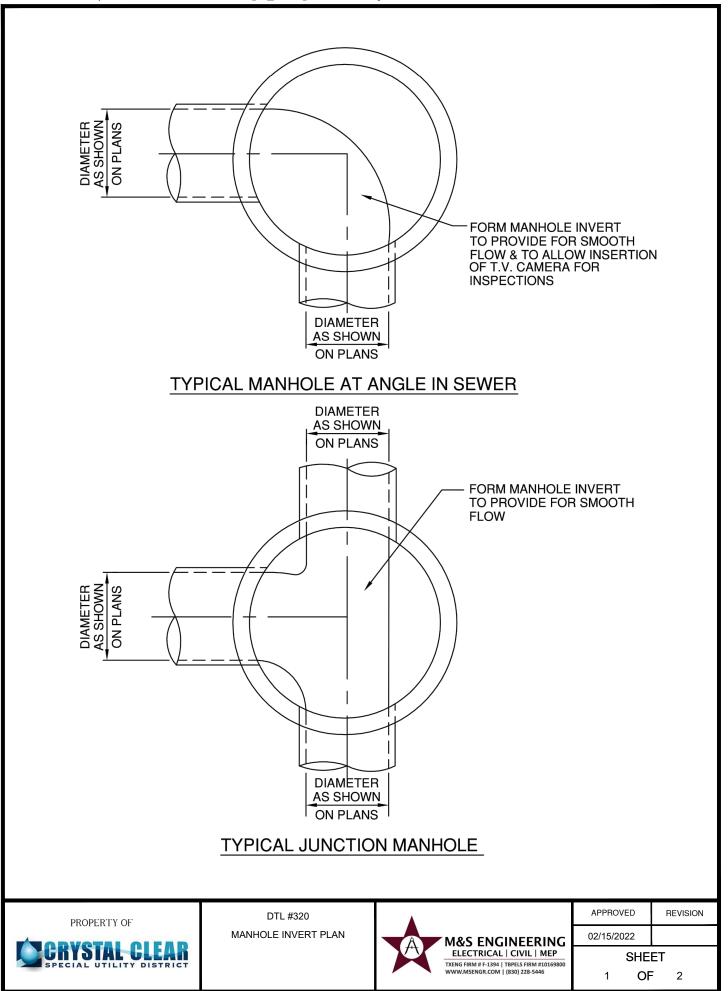


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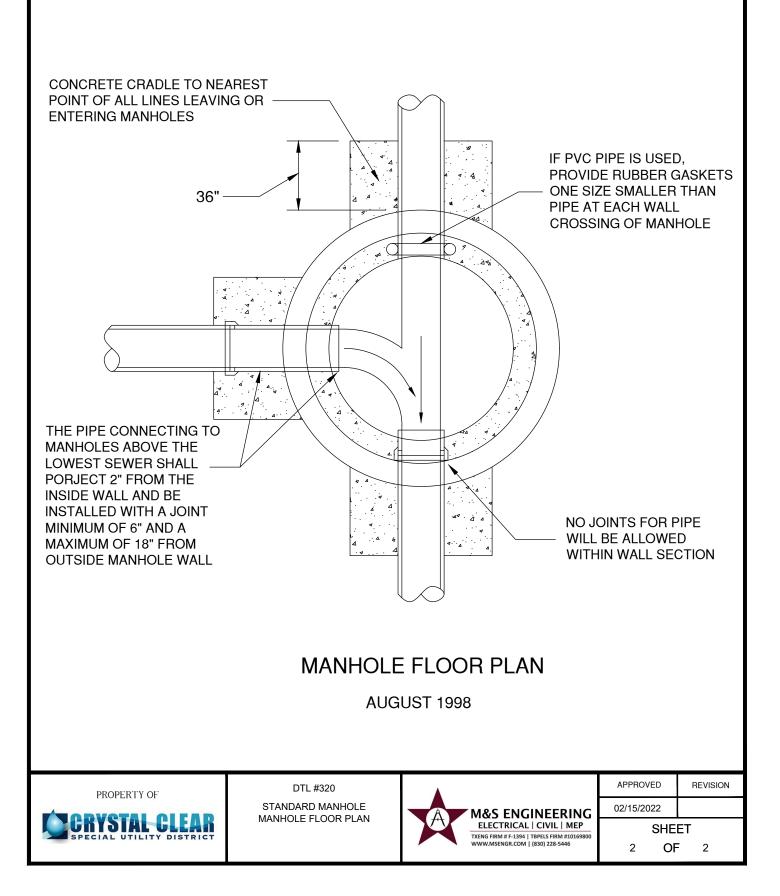


Date: Oct 24, 2022, 1:48pm User ID: kvogler File: S:\Standards\02 Details\07 Utility District\CRYSTAL CLEAR SUD\CCSUD WW Details\310__CONCRETE_ENCASEMENT CCSUD.dwg

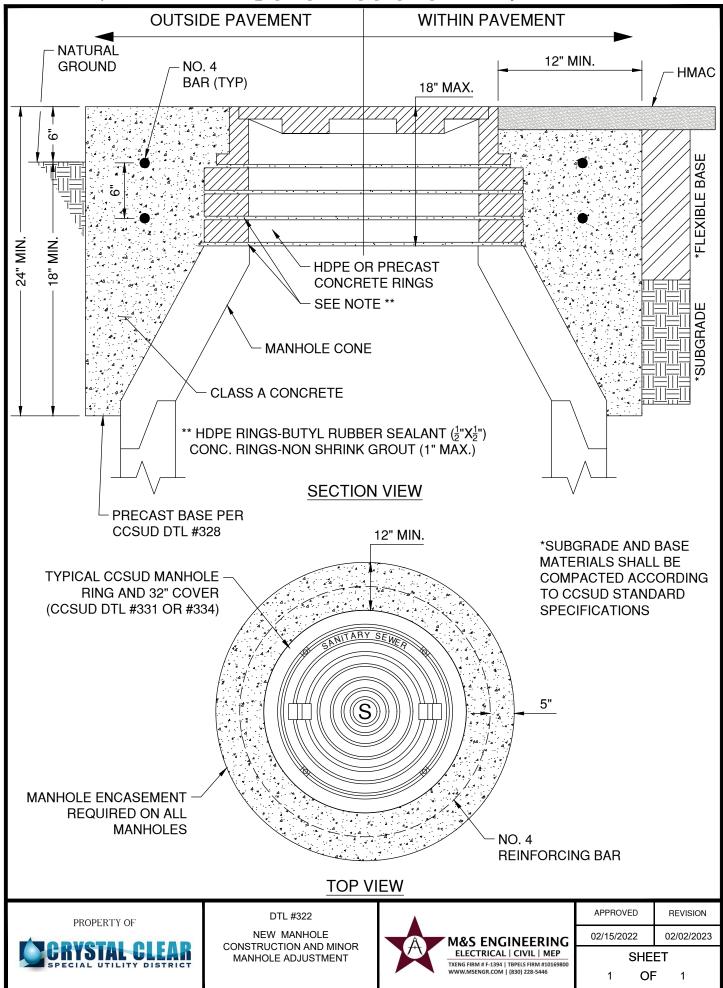


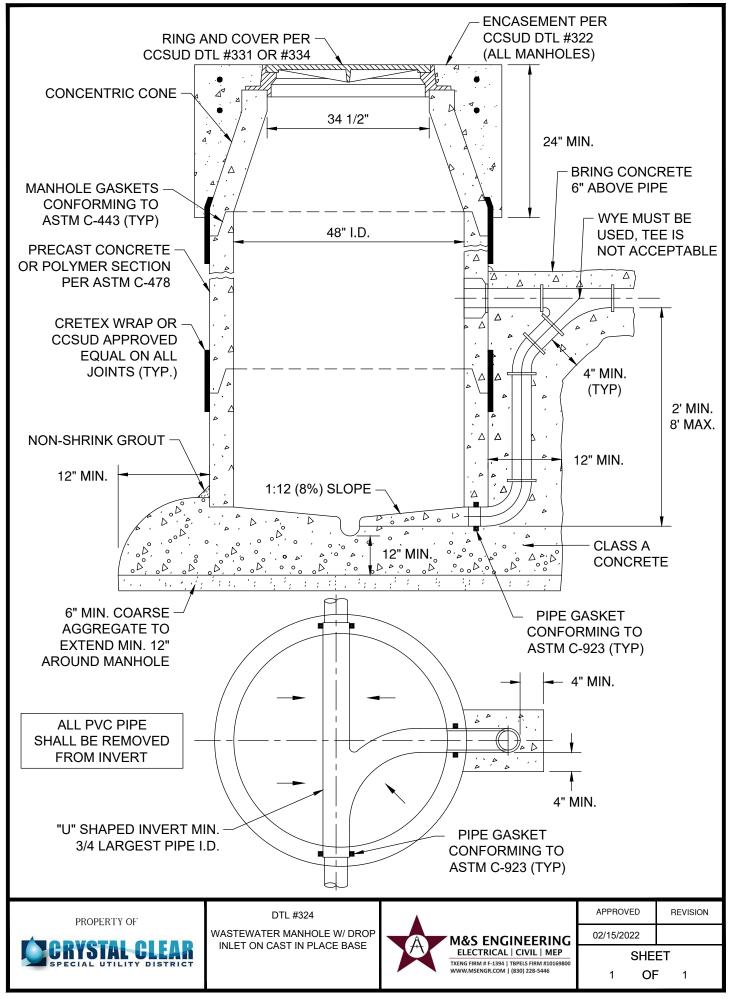


STANDARD MANHOLE

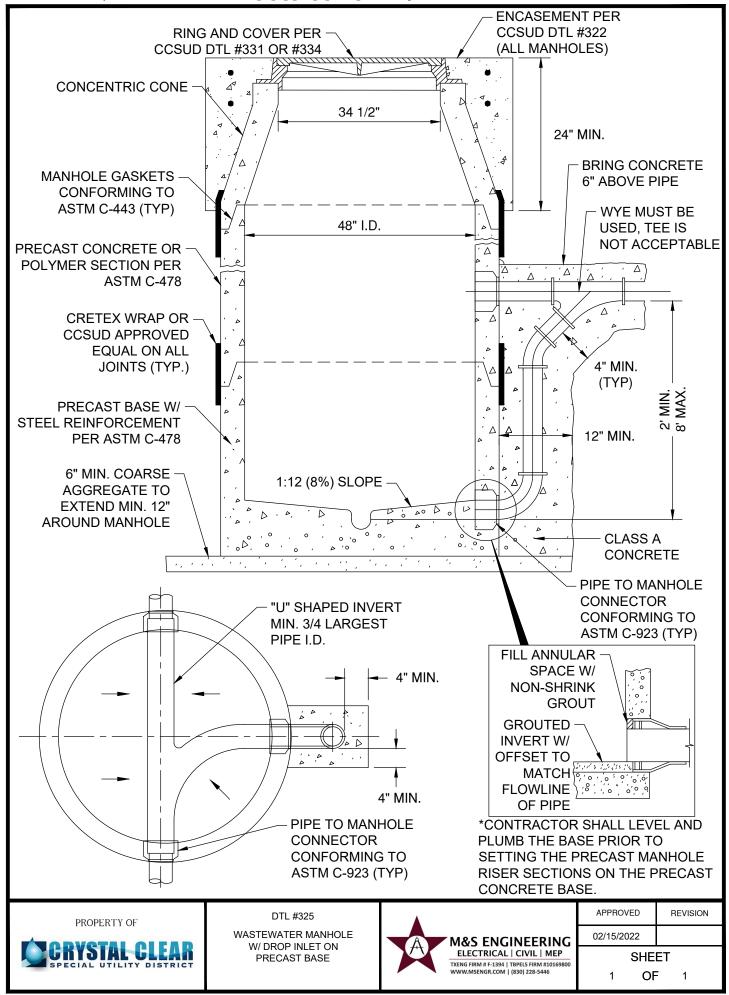


Date: Feb 02, 2023, 3:35pm User ID: kvogler File: St:Standards/02 Details/07 Utility District/CRYSTAL CLEAR SUD/CCSUD WW Details/322_NEW_MANHOLE_CONSTRUCTION_AND_MINOR_MANHOLE_ADJUSTMENT-1 CCSUD.dwg

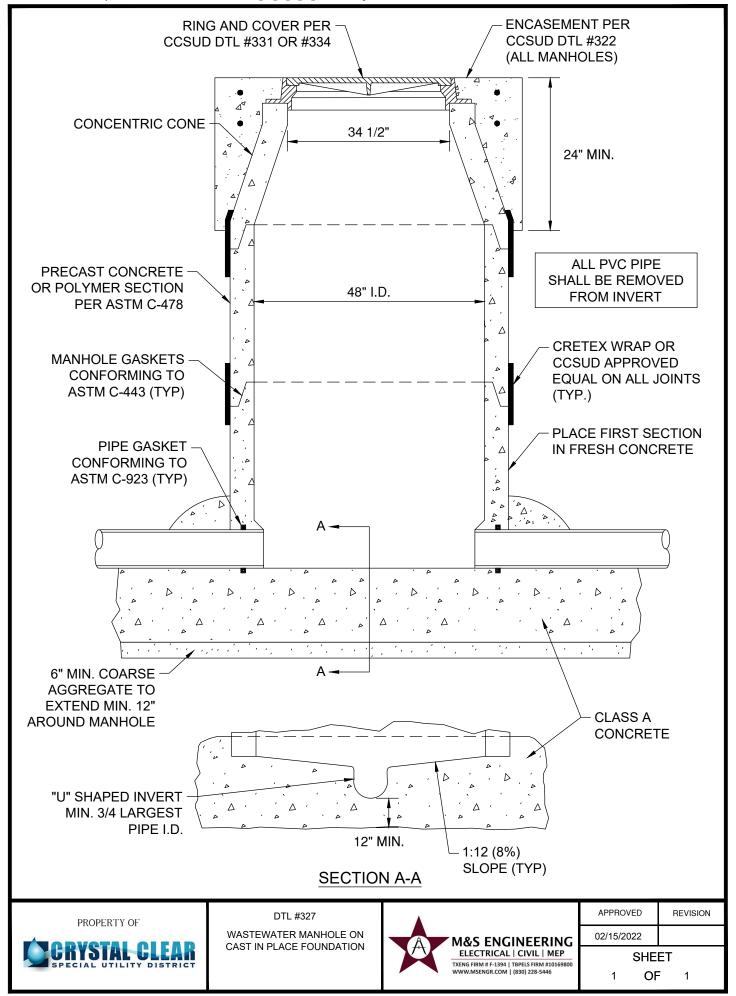




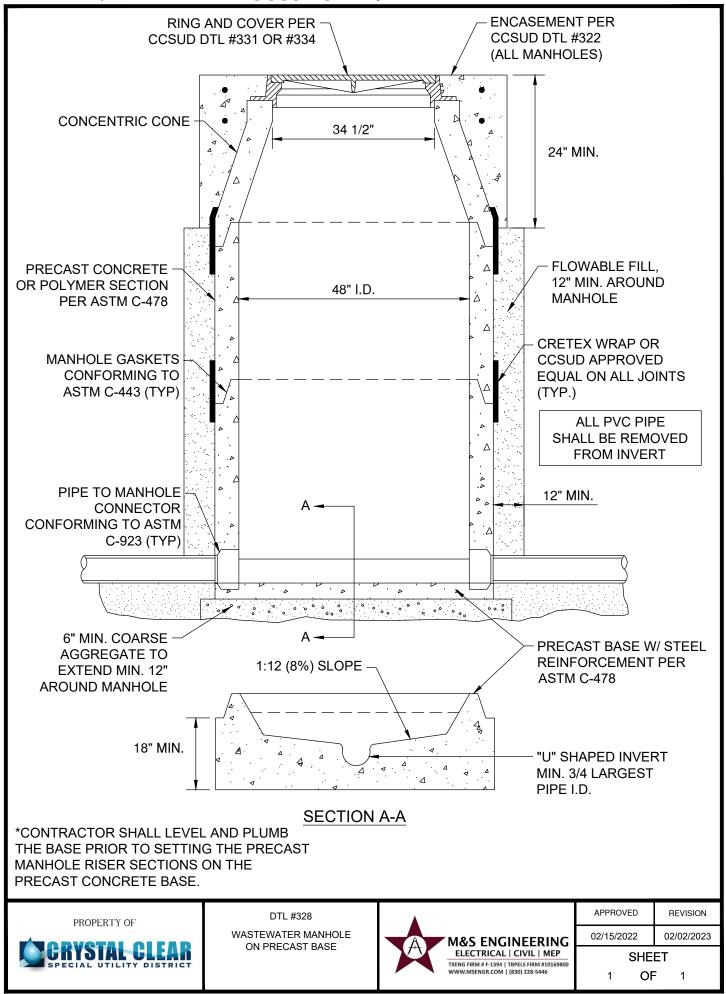
Date: Oct 24, 2022, 1:53pm User ID: kvogler File: S:\Standards\02 Details\07 Utility DistrictCRYSTAL CLEAR SUD\CCSUD WW Details\325_WW_MH_W_DROP_ON_PRECAST_BASE CCSUD.dwg

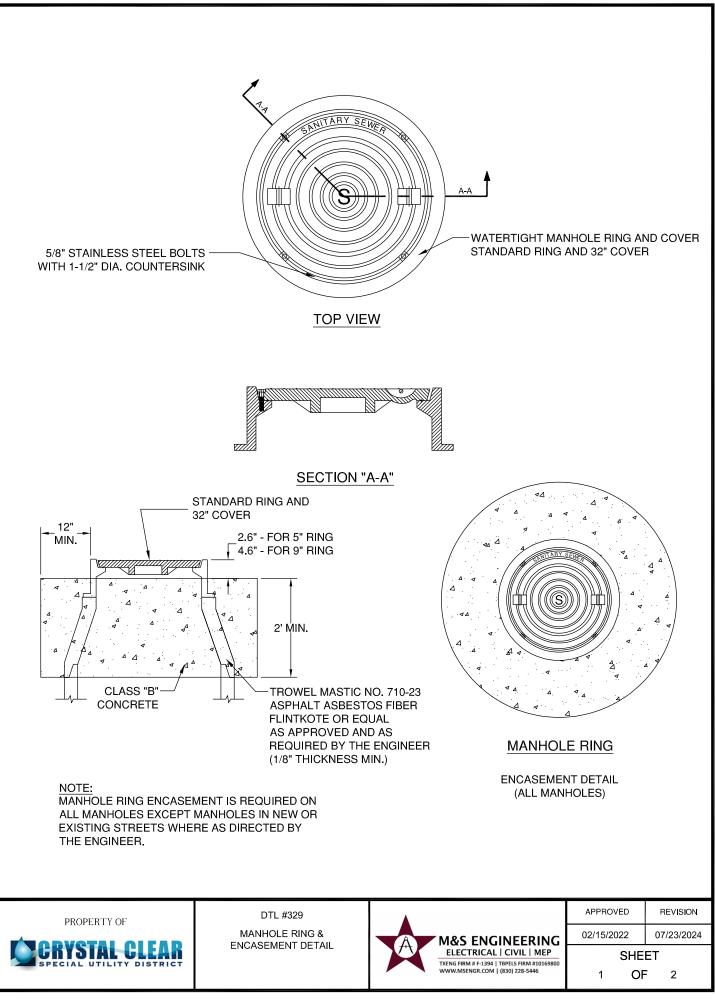


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Date: Feb 03, 2023, 8:20am User ID: kvogler File: S:\Standards\02 Details\07 Utility District\CRYSTAL CLEAR SUD\CCSUD WW Details\328_WW_MH_ON_PRECAST_BASE CCSUD.dwg





Date: Jul 23, 2024, 1:13pm User ID: kvogler File: S:\Standards\02 Details\07 Utility District\CRYSTAL CLEAR SUD\CCSUD WW Details\329 2of2 MH RING & ENCASEMENT CCSUD.dwg

