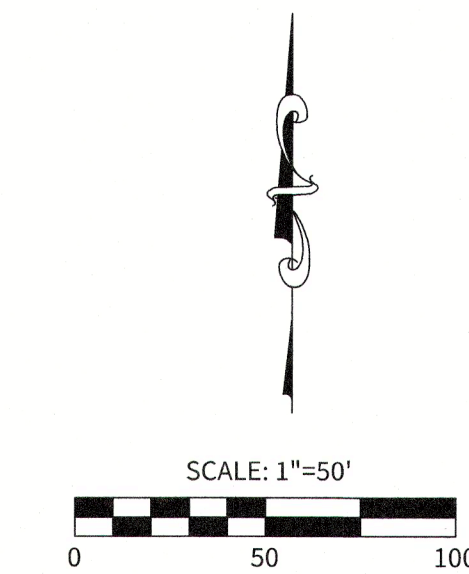


LEGEND

- PROPOSED 2" SINGLE WATER SERVICE
- PROPOSED 1" DUAL WATER SERVICE
- PROPOSED 2" IRRIGATION WITH 2" METER
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- JOINT RESTRAINT
- JOINT RESTRAINT ENTIRE LENGTH
- PROPOSED MANHOLE
- EXISTING MANHOLE



KEYNOTE ①

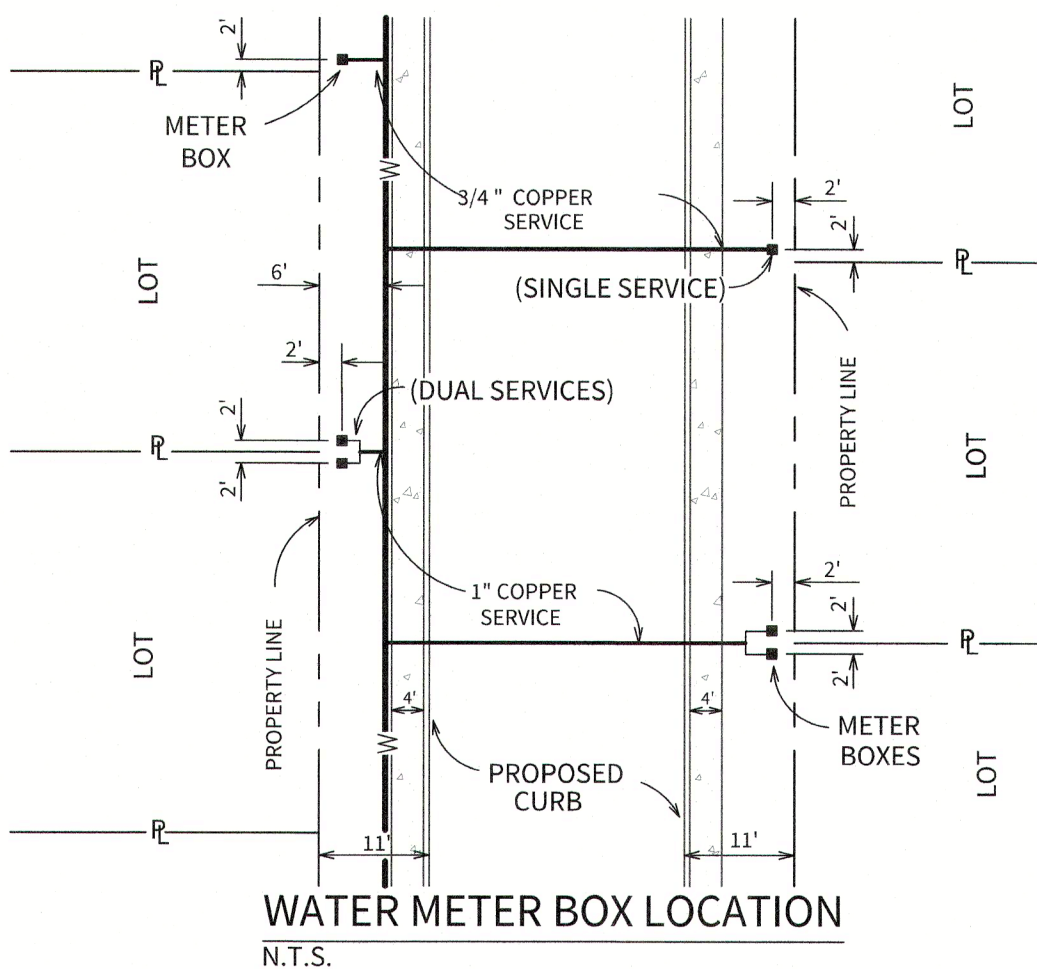
AFTER RELEASE FOR SERVICE, CONTRACTOR TO TIE NEW 16" MAIN INTO EXIST. 16" WATER MAIN WITH ±5 L.F. OF 16" WATER MAIN, CUT AS REQUIRED.

16" VALVE TO REMAIN CLOSED UNTIL AFTER DISINFECTION & ACCEPTANCE BY SAWS

CONTRACTOR SHALL FIELD LOCATE & VERIFY DEPTH OF EXISTING 12" MAIN & FITTINGS PRIOR TO COMMENCING CONSTRUCTION

FOR CHLORINATION INJECTION
2 - 1" CORPORATION STOP C.C. X I.P.
2 - 1" COPPER TUBING, CUT AS REQ'D
2 - 1 1/4" THD. SOLID CAPS, THR.
2 - 1" COMP. x 1 1/2" COUPLING, CURB STOP
CONTRACTOR SHALL PROVIDE A 2" JUMPER CONNECTION TO LOAD NEW MAIN

1 - 16" SOLID SLEEVE
1 - 2" BLOWOFF ASSEMBLY (TEMP.)
1 - 16"x2" THR. DI. ECCENTRICALLY TAPPED CAP, M.J. (TEMP.)
SEE SAWS STD DETAIL DWG DD-844-01



Developer's Name					PUITE HOMES OF TEXAS, L.P.				
Developer's Address					1718 DRY CREEKWAY, SUITE 120				
City					SAN ANTONIO				
State					TEXAS				
Zip					78259				
Phone #					(210) 496-1985				
Fax #					(210) 496-0449				
SAWS Block Map #					082-022				
Total EDU's					124				
Total Acreage					25.86				
Total Linear Footage of Pipe					8" W - 3,104 L.F., 16" W - 997 L.F.				
Pilot No.					22-11800196				
Number of Lots					124				
SAWS Job No.					22-1089				

SAWS CONSTRUCTION NOTES COUNTER PERMIT AND GENERAL CONSTRUCTION PERMIT REVISED JULY 2017

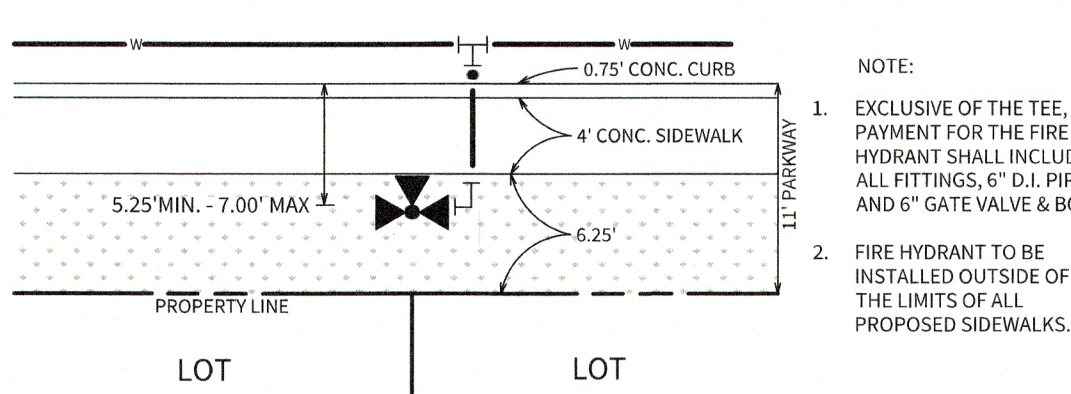
GENERAL SECTION

- All materials and construction procedures within the scope of this contract shall be approved by the San Antonio Water System (SAWS) and comply with the Plans, Specifications, General Conditions and with the following as applicable:
 - Current Texas Commission on Environmental Quality (TCEQ) "Design Criteria for Domestic Wastewater System", Texas Administrative Code (TAC) Title 30 Part 1 Chapter 217 and "Public Drinking Water", TAC Title 30 Part 1 Chapter 290.
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- The Contractor shall obtain the SAWS Standard Details from the SAWS website, http://www.saws.org/business_center/specs. Unless otherwise noted within the design plans.
- The Contractor is to make arrangements with the SAWS Construction Inspection Division at 233-2973, a notification procedures that will be used to notify affected home residents and/or property owners 48 hours prior to beginning any work.
- Location and depth of existing utilities and service laterals shown on the plans are understood to be approximate. Actual locations and depths must be field verified by the Contractor at least 1 week prior to construction. It shall be the Contractor's responsibility to locate utility service lines as required for construction and to protect them during construction at no cost to SAWS.
- The Contractor shall verify the exact location of underground utilities and drainage structures at least 1-2 weeks prior to construction whether shown on plans or not. Please allow up to 7 business days for locates requesting pipe location markers on SAWS facilities. The following contact information are supplied for verification purposes:
 - SAWS Utility Locates: <http://www.saws.org/Service/Locates>
 - COSA Drainage (210) 207-0724 or (210) 207-6026
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 - COSA Traffic Signal Damages (210) 207-3951
- Texas State Wide One Call Locator 1-800-545-6005 or 811
- The Contractor shall be responsible for restoring existing fences, curbs, streets, driveways, sidewalks, landscaping and structures to its original or better condition if damages are made as a result of the project's construction.
- All work in Texas Department of Transportation (TxDOT) and/or Bexar County right-of-way shall be done in accordance with respective construction specifications and permit requirements.
- The Contractor shall comply with City of San Antonio or other governing municipality's tree ordinances when excavating near trees.
- The Contractor shall not place any waste materials in the 100-year Flood Plain without first obtaining an approved Flood Plain Permit.

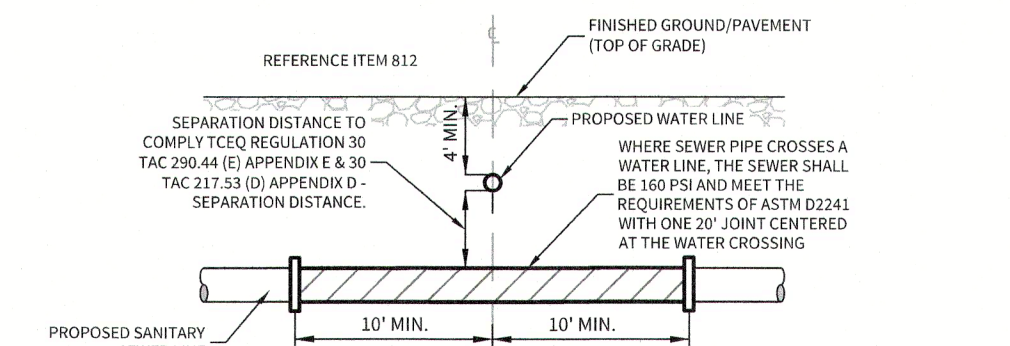
- Holiday Work: Contractors will not be allowed to perform SAWS work on SAWS recognized holidays. Request should be sent to constrwork@saws.org.
- Weekend Work: Contractors are required to notify the SAWS Inspection Construction Department 48 hours in advance to request weekend work. Request should be sent to constrwork@saws.org.
- Any and all SAWS utility work installed without holiday/weekend approval will be subject to be uncovered for proper inspection.
- Compaction note (Item 804): The contractor shall be responsible for meeting the compaction requirements on all trench backfill and for paying for the tests performed by a third party. Compaction tests will be done at one location point randomly selected, or as indicated by the SAWS Inspector and/or the test administrator, per each 12-inch loose lift per 400 linear feet at a minimum. This project will not be accepted and finalized by SAWS without this requirement being met and verified by providing all necessary documented test results.
- A copy of all testing reports shall be forwarded to SAWS Construction Inspection Division, Water Section.

WATER SECTION

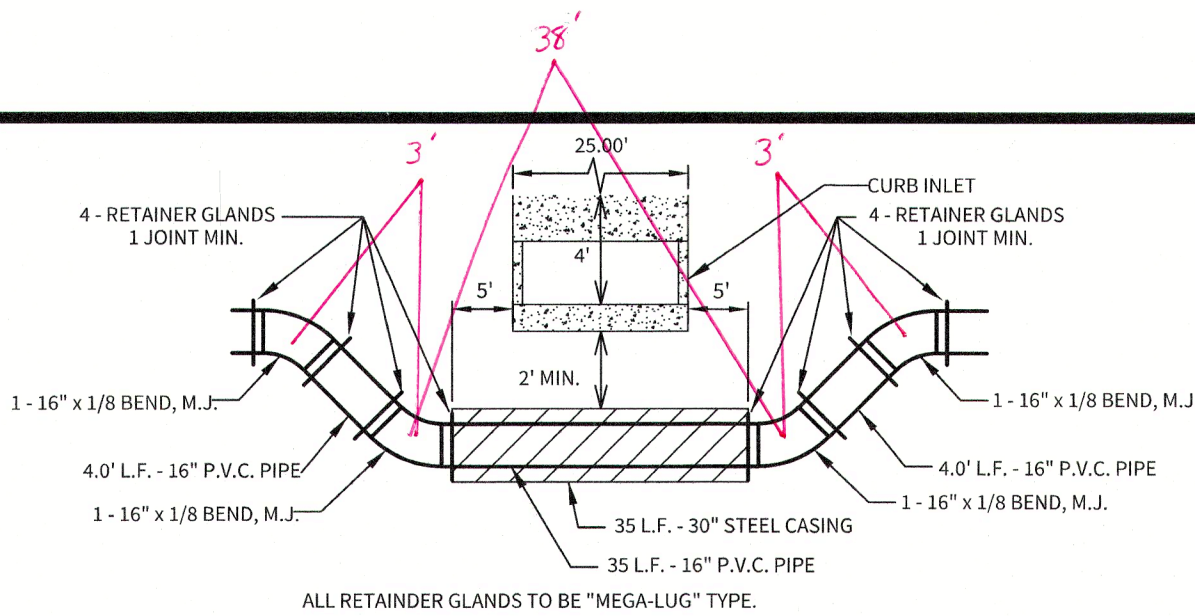
- Prior to tie-ins, any shutdowns of existing mains of any size must be coordinated with the SAWS Construction Inspection Division at least one week in advance of the shutdown. The Contractor must also provide a sequence of work as related to the tie-ins; this is at no additional cost to SAWS or the project and it is the responsibility of the Contractor to sequence the work accordingly. For water mains 12" or higher, SAWS Emergency Operations Center (210) 233-2014
- Asbestos Cement (AC) pipe, also known as transite pipe which is known to contain asbestoscontaining material (ACM), may be located within the project limits. Special waste management procedures and health and safety requirements will be applicable when removal and/or disturbance of this pipe occurs. Such work is to be made under Special Specification Item No. 3000, "Special Specification for Handling Asbestos Cement Pipe".
- Valve removal: Where the contractor is to abandon a water main, the control valve located on the abandoning branch will be removed and replaced with a cap/plug (NSPI)
- Suitable anchorage/thrust blocking or joint restraint shall be provided at all of the following main locations: dead ends, plugs, caps, tees, crosses, valves, and bends, in accordance with the Standard Drawings DD-839 Series and Item No. 639, in the SAWS Standard Specifications for Construction.
- All valves shall read "open right".
- PRVs Required: Contractor to verify that no portion of the tract is below ground elevation of 985 feet where the static pressure will normally exceed 80 PSI. At all such locations where the ground level is below 985 feet, the Developer or Builder shall install at each lot, on the customer's side of the meter, an approved type pressure regulator in conformance with the Plumbing Code of the City of San Antonio. No dual services allowed for any lot(s) if PRV is/are required for such lot(s), only single service connections shall be allowed. *Note: A pressure regulator is also known as a pressure reducing valve (PRV).
- Pipe Disinfection with Dry HTH for Projects less than 800 linear feet. (Item No. 847.3): Mains shall be disinfected with dry HTH where shown in the contract documents or as directed by the Inspector, and shall not exceed a total length of 800 feet. This method of disinfection will also be followed for main repairs. The Contractor shall utilize all appropriate safety measure to protect his personnel during disinfection operations.
- Backflow Prevention Devices:
 - All irrigation services within residential areas are required to have backflow prevention devices.
 - All commercial backflow prevention devices must be approved by SAWS prior to installation.
- Final connection to the existing water main shall not be made until the water main has been pressure tested, chlorinated, and SAWS has released the main for tie-in and use.
- All meters shall be 5/8", unless otherwise noted.
- All pipes shall be C-900 Class 235 DR 18, unless otherwise noted.



TYPICAL FIRE HYDRANT DETAIL (4' SIDEWALK / 50' R.O.W.)



TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL



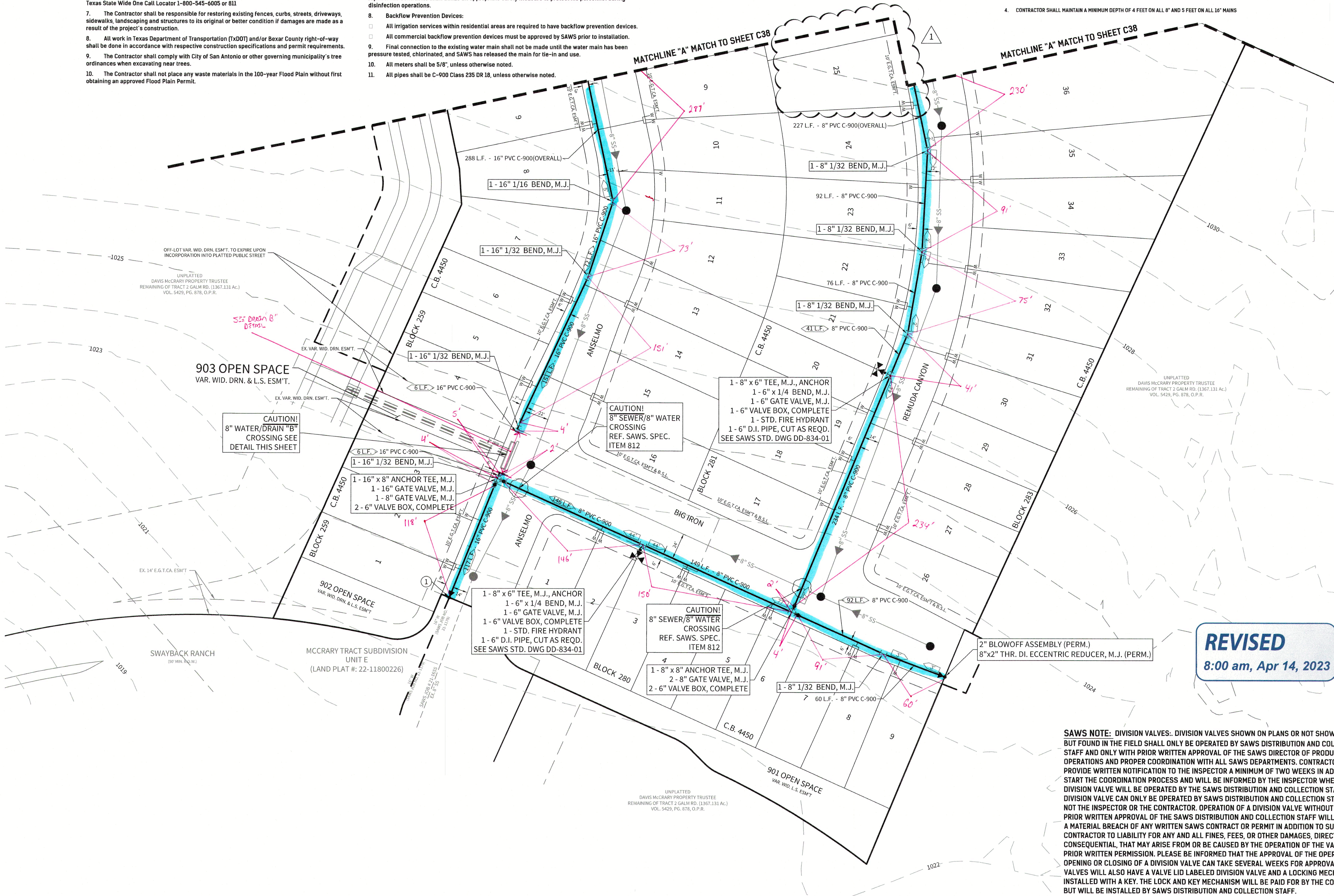
WATER / DRAIN "B" CURB INLET CROSSING DETAIL
SIDE VIEW [THIS DETAIL IS VERTICAL ONLY, NOT HORIZONTAL.] (N.T.S.)

TRENCH EXCAVATION PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS, SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

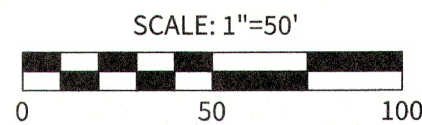
SHEET NOTES:

- All 8" & 16" PVC SHALL BE C-900 CLASS 235 DR 18.
- SAWS SHALL MACHINE CHORDINATE ALL NEW WATER MAINS.
- CONTRACTOR SHALL NOTIFY ENGINEER AND CITY OF SAN ANTONIO TREE INSPECTIONS DEPARTMENT PRIOR TO THE REMOVAL OF ANY TREES. DAMAGE TO ANY PROTECTED TREES WILL BE MITIGATED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL MAINTAIN A MINIMUM DEPTH OF 4 FEET ON ALL 8" AND 5 FEET ON ALL 16" MAINS



LEGEND

- PROPOSED 1" SINGLE WATER SERVICE
- PROPOSED 1" DUAL WATER SERVICE
- PROPOSED 1" IRRIGATION WITH 1/2" METER
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- JOINT RESTRAINT
- JOINT RESTRAINT ENTIRE LENGTH
- PROPOSED MANHOLE
- EXISTING MANHOLE



TRENCH EXCAVATION PROTECTION

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SHEET NOTES:

- ALL 8" & 16" PVC SHALL BE C-900 CLASS 250 DR 18.
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- CONTRACTOR SHALL NOTIFY ENGINEER AND CITY OF SAN ANTONIO TREE INSPECTIONS DEPARTMENT PRIOR TO THE REMOVAL OF ANY TREES. DAMAGE TO ANY PROTECTED TREES WILL BE MITIGATED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL MAINTAIN A MINIMUM DEPTH OF 4 FEET ON ALL 8" AND 5 FEET ON ALL 16" MAINS

SAWS CONSTRUCTION NOTES COUNTER PERMIT AND GENERAL CONSTRUCTION PERMIT REVISED JULY 2017

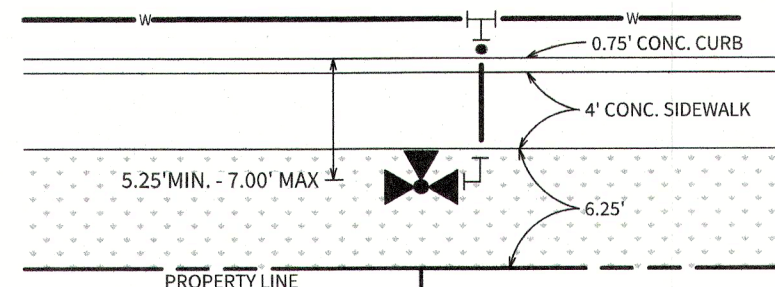
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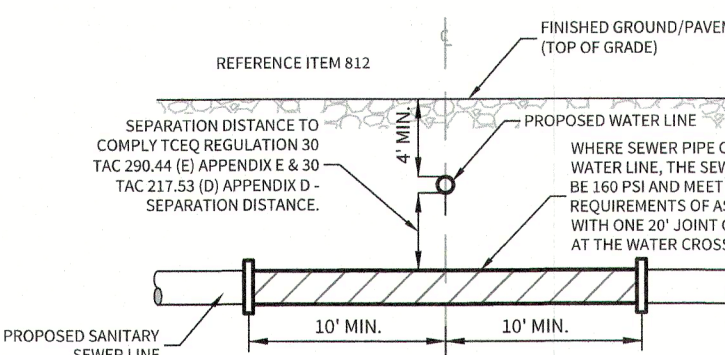
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- A copy of all testing reports shall be forwarded to SAWS Construction Inspection Division, Water Section.

WATER SECTION

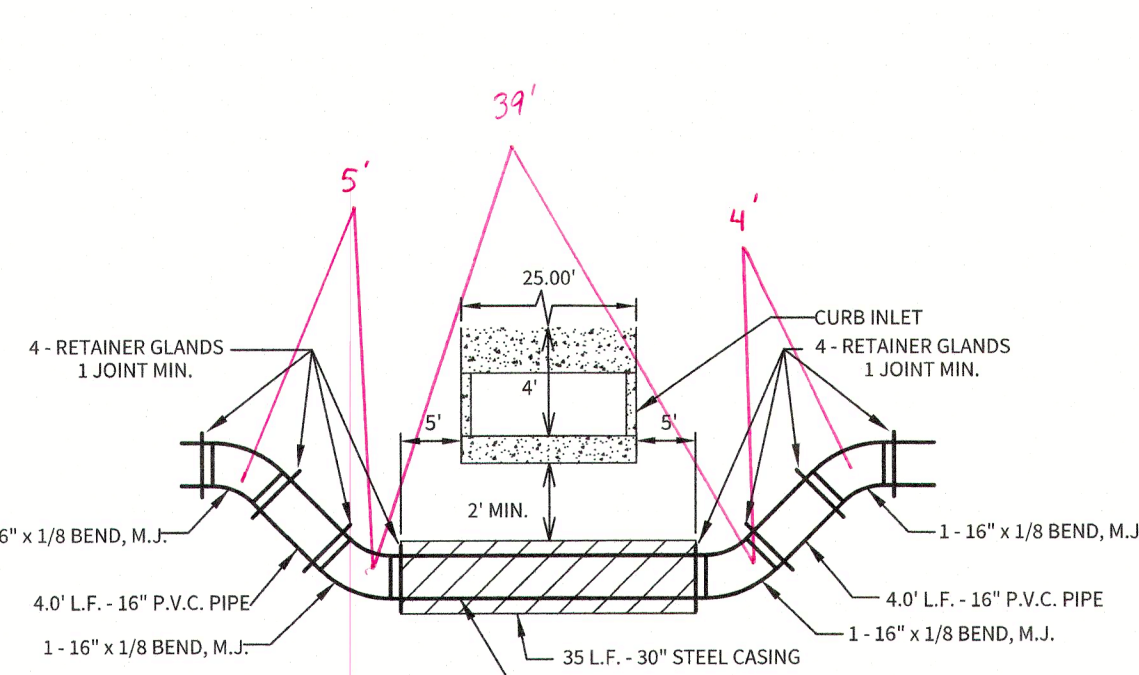
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- All valves shall read "open right".
- PRVs Required: Contractor to verify that no portion of the tract is below ground elevation of 355 feet where the static pressure will normally exceed 80 PSI. At all such locations where the ground level is below 355 feet, the Developer or Builder shall install at each lot, on the customer's side of the meter, an approved type pressure regulator in conformance with the Plumbing Code of the City of San Antonio. No dual services allowed for any lot(s) if "PRV" is required for such lot(s), only single service connections shall be allowed. (Note: A pressure regulator is also known as a pressure reducing valve (PRV).
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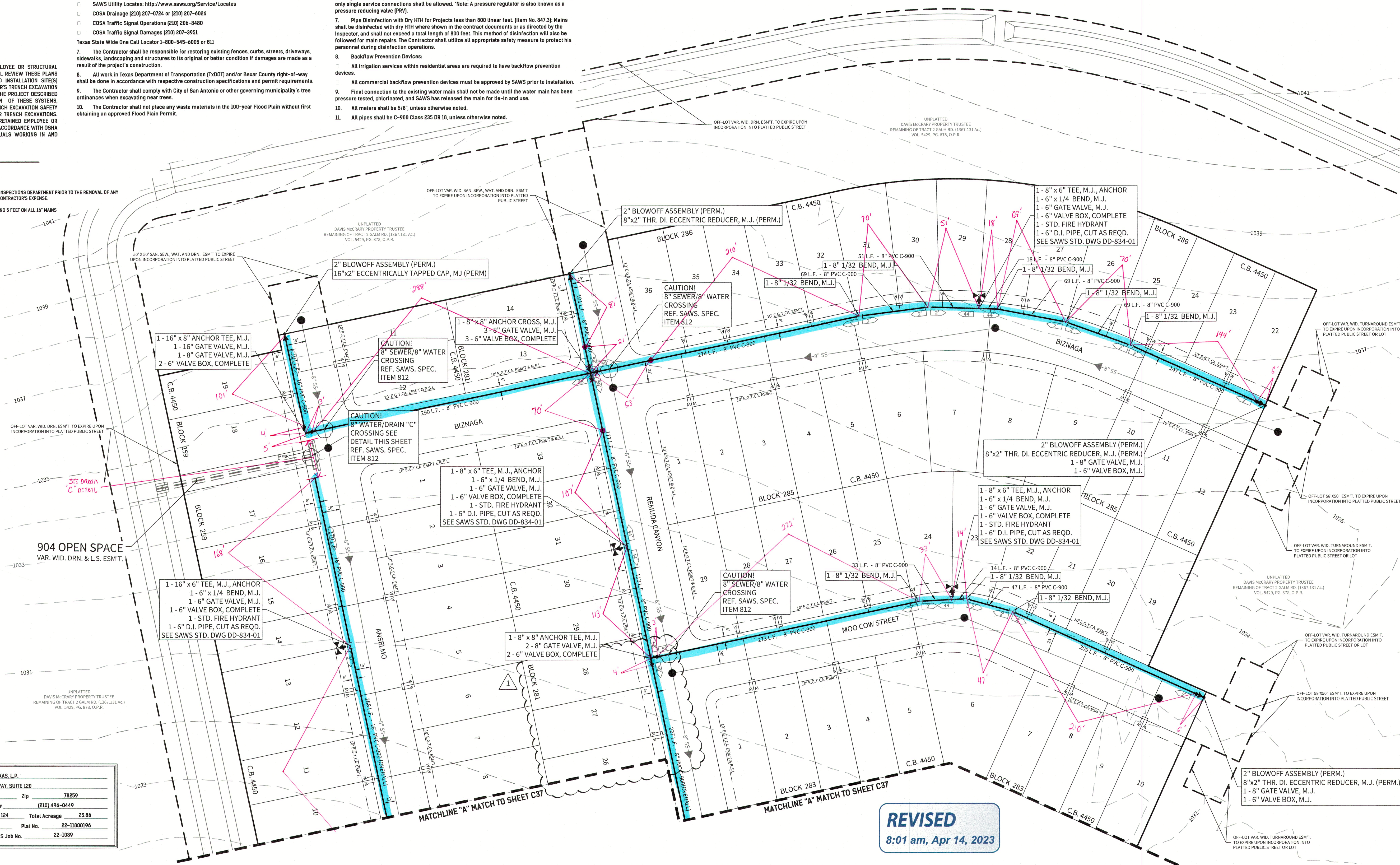
TYPICAL FIRE HYDRANT DETAIL (4' SIDEWALK / 50' R.O.W.)



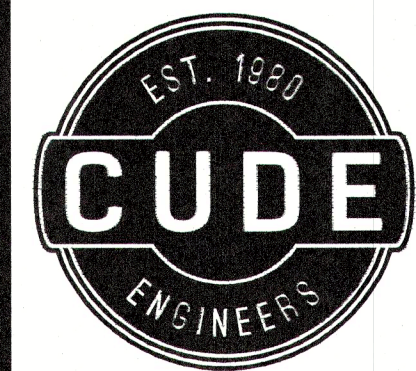
TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL



WATER / DRAIN "C" CURB INLET CROSSING DETAIL
SIDE VIEW (THIS DETAIL IS VERTICAL ONLY, NOT HORIZONTAL) (N.T.S.)



REVISED
8:01 am, Apr 14, 2023



4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P: (210) 681.2951 F: (210) 523.7112

MCCRARY TRACT
UNIT 14

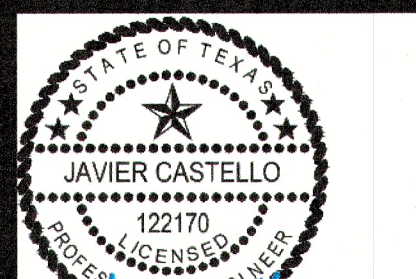
WATER DISTRIBUTION PLAN

DATE
04/12/2023
PROJECT NO.
02142.051

DRAWN BY
JR

CHECKED BY
TCD/JC/DDC

REVISIONS	1	2	3	4	5	6	7	8
1. 2023/04/12 - REVISED TRACT 14 C38 WAT. DIST. PLAN								



CUDE ENGINEERS
TBPELS No. 10048500

PLAT NO.
22-11800196
SAWS JOB NO.
22-1089

C38

LEGEND

XXXL.F. - XX" PVC C-900 = PROPOSED WATER MAIN
--- = EXISTING WATER MAIN

SAWS CONSTRUCTION NOTES
COUNTER PERMIT AND GENERAL CONSTRUCTION PERMIT REVISED JULY 2017

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KEYNOTE ①

AFTER RELEASE FOR SERVICE,
CONTRACTOR TO TIE NEW 8" MAIN
INTO EX. 8" WATER MAIN WITH
±5 L.F. OF 8" WATER MAIN, CUT AS REQUIRED.

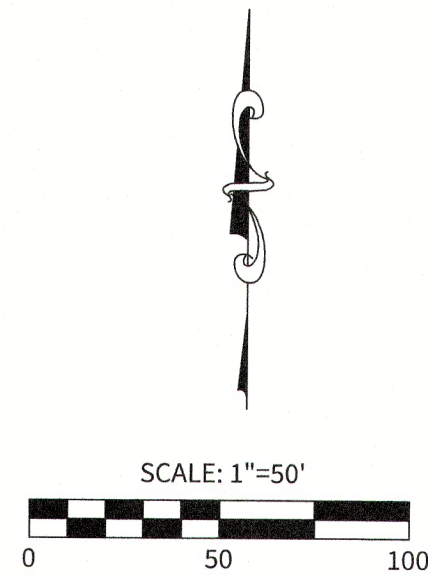
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DISINFECTION & ACCEPTANCE BY SAWS

CONTRACTOR SHALL FIELD LOCATE & VERIFY
DEPTH OF EXISTING 8" MAIN & FITTINGS PRIOR
TO COMMENCING CONSTRUCTION

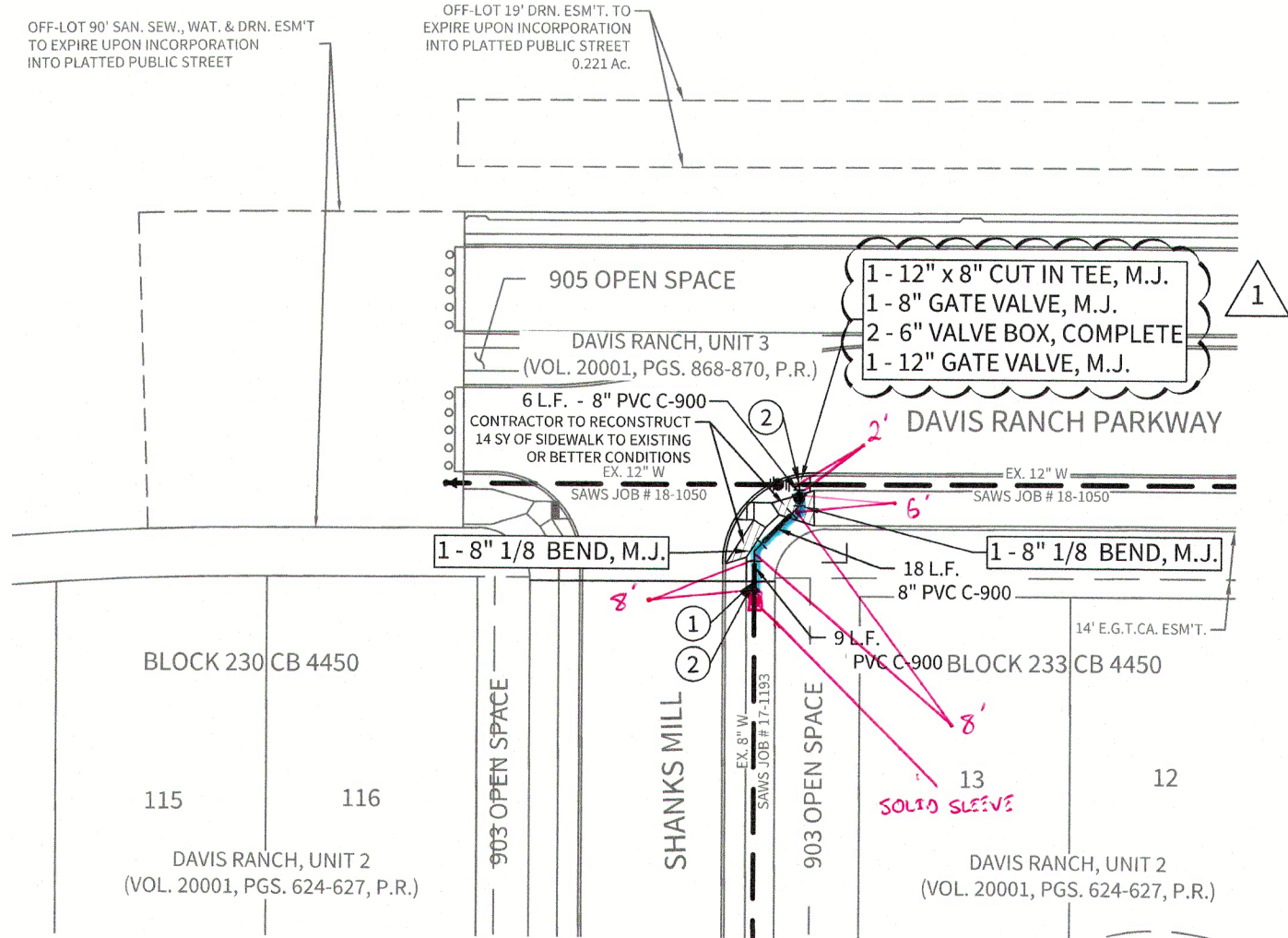
1 - 8" SOLID SLEEVE
1 - 2" BLOWOFF ASSEMBLY (TEMP.)
1 - 8"x2" THR. DI. ECCENTRICALLY
TAPPED CAP, M.J. (TEMP.)
SEE SAWS STD DETAIL DWG DD-844-01

KEYNOTE ②

CONTRACTOR SHALL CHLORINATE WITH HTH
(SAWS SPEC. ITEM NO. 847)
CONTRACTOR SHALL PROVIDE A 2"
JUMPER CONNECTION TO LOAD NEW MAIN



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- WATER SECTION**
- Prior to tie-ins, any shutdowns of existing mains of any size must be coordinated with the SAWS Construction Inspection Division at least one week in advance of the shutdown. The Contractor must also provide a sequence of work as related to the tie-ins; this is at no additional cost to SAWS or the project and it is the responsibility of the Contractor to sequence the work accordingly. For water mains 12" or higher: SAWS Emergency Operations Center (210) 233-2014.
 - Asbestos Cement (AC) pipe, also known as transite pipe which is known to contain asbestoscontaining material (ACM), may be located within the project limits. Special waste management procedures and health and safety requirements will be applicable when removal and/or disturbance of this pipe occurs. Such work is to be made under Special Specification Item No. 3000, "Special Specification for Handling Asbestos Cement Pipe".
 - Valve removal: Where the contractor is to abandon a water main, the control valve located on the abandoning branch will be removed and replaced with a cap/plug. (NSP)
 - Suitable anchorage/thrust blocking or joint restraint shall be provided at all of the following main locations: dead ends, plugs, caps, tees, crosses, valves, and bends, in accordance with the Standard Drawings DD-850 Series and Item No. 839, in the SAWS Standard Specifications for Construction.
 - All Valves shall read "open right".
 - PRVs Required: Contractor to verify that no portion of the tract is below ground elevation of 955 feet where the static pressure will normally exceed 80 PSI. At all such locations where the ground level is below 255 feet, the Developer or Builder shall install at each lot, on the customer's side of the meter, an approved type pressure regulator in conformance with the Plumbing Code of the City of San Antonio. No dual services allowed for any lot(s) if "PRV is/are required for such lot(s), only single service connections shall be allowed. "Note: A pressure regulator is also known as a pressure reducing valve (PRV).
 - Pipe Disinfection with Dry HTH for Projects less than 800 linear feet. (Item No. 847.3): Mains shall be disinfected with dry HTH where shown in the contract documents or as directed by the Inspector, and shall not exceed a total length of 800 feet. This method of disinfection will also be followed for main repairs. The Contractor shall utilize all appropriate safety measure to protect his personnel during disinfection operations.
 - Backflow Prevention Devices:
 - All irrigation services within residential areas are required to have backflow prevention devices.
 - All commercial backflow prevention devices must be approved by SAWS prior to installation.
 - Final connection to the existing water main shall not be made until the water main has been pressure tested, chlorinated, and SAWS has released the main for tie-in and use.
 - All meters shall be 5/8", unless otherwise noted.
 - All pipes shall be C-900 Class 235 DR 18, unless otherwise noted.



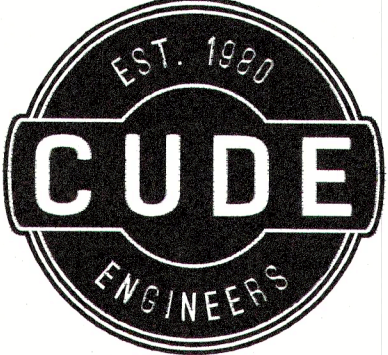
TRENCH EXCAVATION PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

SHEET NOTES:

- ALL 8" 6 1/8" PVC SHALL BE C-900 CLASS 235 DR 18.
- SAWS SHALL MACHINE CHLORINATE ALL NEW WATER MAINS.
- CONTRACTOR SHALL NOTIFY ENGINEER AND CITY OF SAN ANTONIO TREE INSPECTIONS DEPARTMENT PRIOR TO THE REMOVAL OF ANY TREES. DAMAGE TO ANY PROTECTED TREES WILL BE MITIGATED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL MAINTAIN A MINIMUM DEPTH OF 4 FEET ON ALL 8" AND 5 FEET ON ALL 16" MAINS

CUDEENGINEERS.COM



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McCrary Tract
Unit 14

WATER DISTRIBUTION PLAN

DATE

08/26/2022

PROJECT NO.

02142.051

DRAWN BY

JR

CHECKED BY

TCD/JC/DDC

REVISIONS

1. 2. 3. 4. 5. 6. 7. 8.



11/28/2022

PLAT NO.

22-11800196

SAWS JOB NO.

22-1089

C39

PRESSURE ZONE 8

Developer's Name PULTE HOMES OF TEXAS, L.P.
Developer's Address 1718 DRY CREEKWAY, SUITE 120
City SAN ANTONIO State TEXAS Zip 78259
Phone # (210) 496-1985 Fax # (210) 496-0449
SAWS Block Map # 082-622 Total EDU's 126 Total Acreage 21.95
Total Linear Footage of Pipe 8" W - 3,104 L.F., 16" W - 997 L.F. Plat No. 22-11800196
Number of Lots 124 SAWS Job No. 22-1089