



PECOS ST. WATER AND SEWER LINE REPLACEMENT

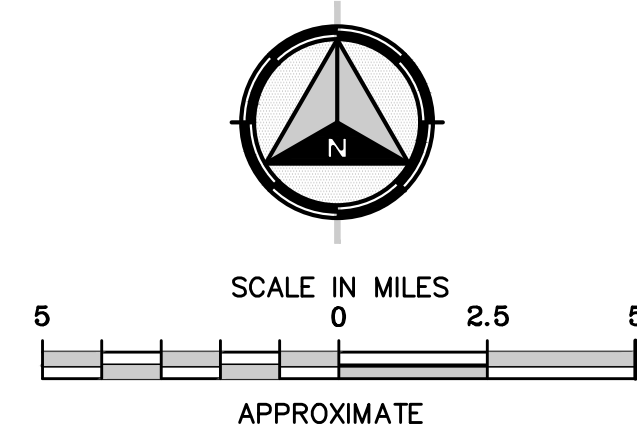
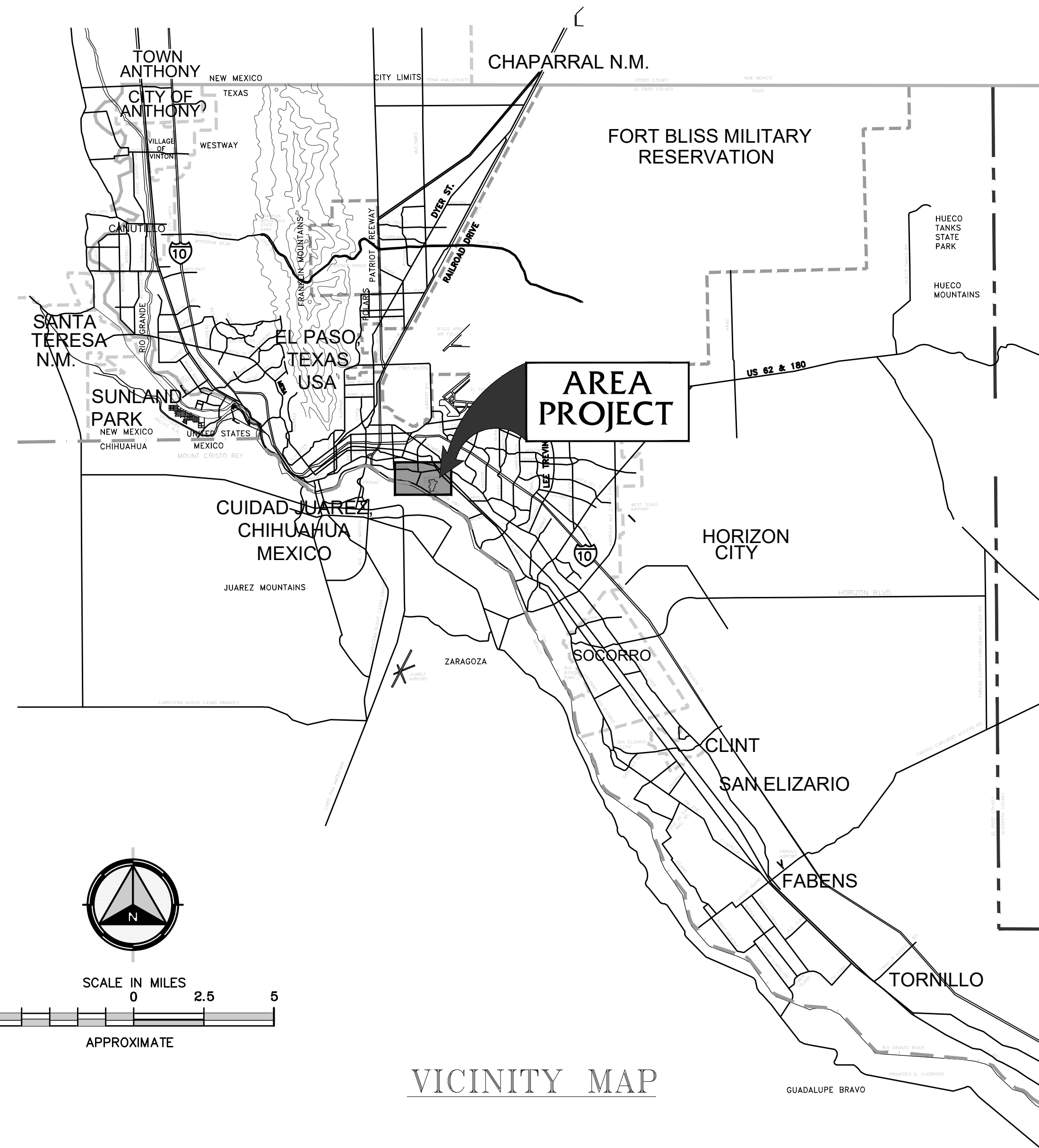
BID NO. 06-23

PROJECT ID# 2291 VOLUME 2 OF 2 CIP#: W040045
FEBRUARY 2023

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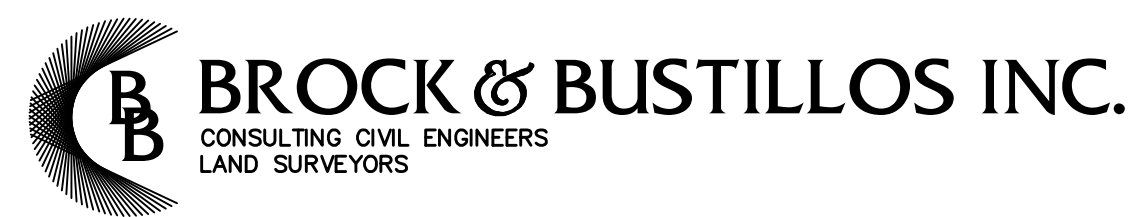


VICINITY MAP



OWNER
1154 HAWKINS BLVD.
EL PASO TEXAS 79925
(915) 594-5500

CONSULTANTS



417 EXECUTIVE CENTER PH (915) 542-4900
EL PASO, TEXAS 79902 FAX (915) 542-2887
WWW.BROCKBUSTILLOS.COM TBPE Registration Number: F-737



JOB NO. 05970-053

02/17/2023

GENERAL NOTES

GENERAL NOTES:

- PAVING CUT AND EXCAVATION PERMITS FOR BORE PITS, TRENCHING, POT HOLLING, AND ANY OTHER EXCAVATIONS SHALL BE OBTAINED FROM THE CITY'S STREET AND MAINTENANCE DEPARTMENT PRIOR TO CONSTRUCTION WITHIN CITY ROW. CONTRACTOR SHALL LINE-POT FOR UTILITY AND COMMUNICATE LINES. CONTACT "ONE CALL" AND linespots@elpasotexas.gov
- INFORMATION ON STORM DRAINAGE SYSTEM IS AVAILABLE IN THE CITY ENGINEERING DEPARTMENT'S MAP ROOM.
- NO EQUIPMENT, MATERIALS OR DEBRIS SHALL BE STORED ON CITY ROW OR PARKWAYS, EXCEPT WITH SPECIAL PERMISSION FROM CITY, PUBLIC AGENCY OR OWNER OF PROPERTY.
- THE CONTRACTOR SHALL PRESERVE, DURING CONSTRUCTION, ALL STOP SIGNS, SPEED LIMIT SIGNS, UNDERGROUND SIGNAL CONDUITS AND ALL OTHER TRAFFIC REGULATORY SIGNS, COORDINATION SHALL BE WITH STREET DEPARTMENT TRAFFIC DIVISION. IN CITY OF EL PASO RIGHT-OF-WAY, THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS FOR APPROVAL TO CITY OF EL PASO ENGINEERING TRAFFIC DEPARTMENT.
- THE CONTRACTOR SHALL COORDINATE WITH CITY STREETS AND MAINTENANCE DEPARTMENT - TRAFFIC SIGNAL SECTION FOR THE LOCATION AND SPOTTING OF TRAFFIC SIGNAL CONDUITS.
- THE CONTRACTOR SHALL PROVIDE THE LOCATION OF ALL WASTE DISPOSAL SITE(S) TO BE USED FOR THE CONSTRUCTION DEBRIS AND ALL WASTE GENERATED BY EXCAVATIONS, BORINGS AND POT HOLLING OPERATIONS, AS PER ALL APPLICABLE RULES AND REGULATIONS.
- THE CONTRACTOR SHALL SUBMIT A PROJECT SCHEDULE, COMMENCEMENT AND COMPLETION OF THE CONSTRUCTION FOR REVIEW BY THE ENGINEER PRIOR TO CONSTRUCTION. CONTRACTOR WILL PROVIDE A TWO-WEEK LOOK AHEAD SCHEDULE, UPDATED WEEKLY, TO THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY ALL RESIDENTS AND BUSINESS OWNERS THAT MAY BE AFFECTED BY THE CONSTRUCTION 14 DAYS PRIOR TO CONSTRUCTION.
- ALL RESTORATIONS SHALL BE COMPLETED PROMPTLY TO MINIMIZE INCONVENIENCE TO PEDESTRIANS, BUSINESSES AND RESIDENTS AND SHALL FOLLOW WITH DSC
- THE CONTRACTOR, AT ALL TIMES DURING CONSTRUCTION, SHALL PROVIDE ACCESS TO ALL RESIDENCES EMERGENCY VEHICLES, TRASH COLLECTION EQUIPMENT, AND BUSINESSES THAT MAY BE AFFECTED BY THE CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY AND CONSULT WITH THE EL PASO WATER BEFORE MAJOR DEVIATION FROM THE APPROVED LOCATION OR IF ANY CONCEALED AND UNEXPECTED CONDITION IS ENCOUNTERED.
- ALL RESTORATION, SIDEWALKS, DRIVEWAY AND HANDICAP CURB RAMPS SHALL COMPLY WITH TEXAS ACCESSIBILITY STANDARDS, DSC, ADA, TDLR.
- ALL BORE PITS, TRENCHING, POT HOLLING, MANHOLE AND/OR HAND-HOLE PIT AND EXCAVATIONS SHALL BE BACKFILLED WITH 2-SACK SOIL CEMENT MIX.
- THE CONTRACTOR SHALL NOTIFY EL PASO WATER CODE COMPLIANCE IMMEDIATELY, IF SUBSURFACE CONTAMINATION IS ENCOUNTERED OR SUSPECTED DURING POT HOLLING, EXCAVATION OR BORING. ALL EXCAVATION AND CONSTRUCTION OPERATIONS SHALL BE CEASED UNTIL FURTHER NOTICE FROM THE CODE COMPLIANCE SUPERVISOR (915) 621-2098 MR. STEVE TERAN.
- INSTALLATION OF THE ENTIRE WATER LINE REPLACEMENTS SHALL BE COORDINATED WITH EL PASO WATER. ALL RESTORATION INSPECTIONS WILL BE BY EL PASO WATER DURING PROJECT COMPLETION WALK-THROUGH.
- ALL ADJACENT PROPERTIES, ALONG THE PROPOSED ROUTE(S) OF CONSTRUCTION AND/OR INSTALLATION, SHALL BE KEPT UNDISTURBED, IF ADJACENT PROPERTIES ALONG THE PROJECT IS DAMAGED BY CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL RESTORE TO PREVIOUS CONDITIONS OR BETTER.
- WATER METERS TO BE INSTALLED WITHIN THE R.O.W., THE FINAL LOCATION OF THE PROPOSED WATER LINE, WATER METERS, VALVES, TIE-INS, ETC. SHALL BE COORDINATED WITH THE OWNER AND THE ENGINEER. WATER VALVES TO BE ALIGNED WITH PROPERTY LINES.
- BACKGROUND IMAGES ARE FOR GENERAL LOCATION PURPOSES ONLY. INSTALL PROPOSED IMPROVEMENTS BASED ON R.O.W. INFORMATION, DIMENSIONS AND/OR DETAILS.
- THE CONTRACTOR SHALL REMOVE AND SALVAGE FIRE HYDRANTS SPECIFIED TO BE REMOVED. REFERENCE SPECIFICATIONS FOR INSTRUCTIONS, MEASUREMENT AND PAYMENT.

CONSTRUCTION NOTES:

- ALL UTILITY LOCATIONS ARE APPROXIMATE. CONTACT UTILITY COMPANIES FOR EXACT LOCATION OF UNDERGROUND UTILITIES IN THIS AREA, BEFORE EXCAVATION AND CONSTRUCTION.
- INSTALL A TRENCH SAFETY SYSTEM TO PROVIDE FOR THE SAFE EXCAVATION OF ALL TRENCHES EXCEEDING A DEPTH OF FIVE FEET (5') AS PER O.S.H.A. STANDARDS.
- ALL PVC PIPE ON THIS PLAN SHALL BE ENCASED WITH SELECTED BEDDING MATERIAL.
- PROVIDE ADEQUATE CONCRETE THRUST BLOCKING AND MECHANICAL JOINT RESTRAINERS AT THE FOLLOWING: TAPPING SLEEVE, TEES, BENDS, PLUGS AND ALL FITTINGS. SEE THRUST BLOCKING DETAIL ON SHEET 13 OF 19.
- ALL VALVES ON PVC/DI WATER MAINS SHALL BE ANCHORED IN CONCRETE, AS PER SPECIFICATIONS AND DETAIL.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING WATER & SANITARY SEWER MAIN LINES AND SERVICE LINES FROM DAMAGE AS RESULT OF CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL PROVIDE TEMPORARY SERVICE TO CUSTOMERS IF SERVICE WILL BE INTERRUPTED FOR MORE THAN 4 HOURS IN A 24 HOUR PERIOD, OR BYPASS AS SHOWN IN DRAWINGS.
- CUT & CAP EACH OF THE EXISTING CAST IRON WATER LINES TO BE REPLACED & ABANDON THEM IN PLACE. WATER LINES DESIGNATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY DEWATERED BEFORE THEY ARE PLUGGED. SOME STREETS WILL REQUIRE REPLACEMENT OF WATERLINE AT LOCATION OF EXISTING LINE; THEREFOR, A BYPASS WILL BE REQUIRED WITH TEMPORARY SERVICE CONNECTIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING TEMPORARY BY-PASS AS REQUIRED TO ENSURE THERE ARE NO INTERRUPTIONS OF WATER SERVICE TO CUSTOMERS FOR ANY WORK REQUIRING MORE THAN 4 HOURS.
- THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND OWNER REGARDING FINAL ALIGNMENT OF THE PROPOSED WATERLINE AND TIE-INS IN THE STREETS AND/OR ALLEYS.
- CONTRACTOR SHALL REPLACE & RECONNECT ALL WATER SERVICES AS PER RECONNECTION DETAILS, INCLUDING BUT NOT LIMITED TO METER BOXES.
- LOCATION OF EXISTING WATER SERVICES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATION OF SERVICES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE WITH CITY ENGINEERING MR. TED MARQUEZ P.E. (915) 212-00651 ON CONSTRUCTION SEQUENCE FOR PROPER TRAFFIC CONTROL PLANNING.
- CONTRACTOR TO REMOVE & DELIVER SALVAGEABLES TO OWNER. (REFER TO SPECIFICATIONS SECTION 01025)
- FOR ALL VALVES, CONTRACTOR TO CHECK FOR LEAK DETECTION LOGGERS (NOTED WITH A SILVER "P") AND NOTIFY ENGINEER PRIOR TO REMOVING VALVE BOX AND COVER, AND BACKFILLING WITH CEMENT STABILIZED BACKFILL. EPWU TO REMOVE LEAK DETECTION LOGGERS.
- FIRE HYDRANT LOCATION APPROXIMATE. COORDINATE FINAL FIRE HYDRANT LOCATION WITH ENGINEER AND OWNER'S OPERATIONS PERSONNEL.
- THE HORIZONTAL RADIUS OF CURVATURE FOR THE WATERLINE SHALL BE IN ACCORDANCE WITH PIPE JOINT DEFLECTION SPECIFIED BY THE PIPE MANUFACTURER.
- CONTRACTOR TO FAMILIARIZE HIMSELF/HERSELF WITH THE LOCATION AND OPERATING STATUS OF THE EXISTING ISOLATION VALVES AND COORDINATE CONNECTING TO THE NEW REPLACEMENT LINE WITH EL PASO WATER.
- ALL SCHEDULE FITTINGS SHALL BE MECHANICAL JOINT (MJ) AS PER SPECIFICATIONS.
- CITY PAVING CUT PERMIT REQUIRED BEFORE EXCAVATING. CONTRACTOR TO INSTALL MARKINGS TO MATCH PRE-CONSTRUCTION WITH THERMOPLASTIC AND GLASS BEADS. NO SEPARATE PAYMENT FOR THIS ITEM AND SHALL BE INCLUDED IN PAVEMENT REPLACEMENT UNIT PRICE.
- SEE SHEETS 12-17 FOR TYPICAL DETAILS.
- COORDINATE WITH OWNER IF TELEVISION (CCTV) THE EXISTING SEWER MAIN(S) IS NECESSARY AT LEAST 48 HOURS IN ADVANCE.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ADDITIONAL FITTINGS WHERE NECESSARY IN ORDER TO MAKE ADJUSTMENTS AND/OR COMPLETE PROPER INSTALLATION OF THE WATERLINES. ADDITIONAL FITTINGS SHALL BE MEASURED BY THE POUND AS PER SPECIFICATIONS. CONTRACTOR SHALL COORDINATE WITH THE OWNER ON THE QUANTITIES PER STREET/ALLEY.
- FOR ANY WATER SHUT-OFFS, INCLUDING BUT NOT LIMITED TO TIE-INS AND BYPASSES, CONTRACTOR MUST COMPLETE EPWATER'S FORM ENTITLED "WATER SHUT-OFF REQUEST FOR TIE-IN SHUT-OFF PLAN AND DUE-DILIGENCE CHECKLIST". PROJECT MANAGER AND EPWATER UPPER MANAGEMENT WILL COORDINATE ON THE SPECIFIC SHUT-OFF DETAILS. A COPY OF THIS FORM IS FOUND IN SECTION 00860 OF THE FRONT END DOCUMENTS.

GENERAL LEGEND

EXISTING IMPROVEMENTS

- EXISTING CONCRETE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- OFFSET MONUMENT LINE
- CENTERLINE
- EXISTING CURB AND GUTTER
- EXISTING WATERLINE
-
-
-
-
- EXISTING SANITARY SEWER LINE
-
- EXISTING GAS LINE
- EXISTING OVERHEAD POWER LINE
-
-
-
- EXISTING SERVICE LINE
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING STORM SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING CITY MONUMENT
- EXISTING GAS VALVE
- EXISTING SIGN
- EXISTING LIGHT POLE
- EXISTING COMMUNICATIONS BOX
- EXISTING ELECTRIC BOX

PROPOSED IMPROVEMENTS

- PROPOSED CONCRETE
- PROPOSED ASPHALT PAVEMENT
- MATCHLINE
- PROPOSED CURB AND GUTTER
-
-
-
- PROPOSED VERTICAL BENDS UNDER SEWER OR STORM
- PROPOSED VERTICAL BENDS ABOVE SEWER OR STORM
- PIPE CROSSING ABOVE EXISTING UTILITY PIPE
- PIPE CROSSING UNDER EXISTING UTILITY PIPE
- REPLACE SERVICE LINE FROM PROPOSED MAIN TO EXISTING WATER METER
- NEW FIRE HYDRANT
- PROPOSED CAP
- PROPOSED GATE VALVE
- PROPOSED TEE
- PROPOSED 45° BEND
- PROPOSED 22.5° BEND
- PROPOSED 11.25° BEND
- PROPOSED SEWER MANHOLE

INDEX OF DRAWINGS

SHEET NO.	TITLE
0	COVER SHEET
1	INDEX & GENERAL NOTES
2	OVERALL MAP
3	ALIGNMENT CONTROL AND STRUCTURE TABLES
PLANNED WATERLINE:	
	DRAWING NAME FROM TO
4	WATERLINE "A" NECHES AVENUE TO PECOS STREET STA. 0+00 STA. 15+00
5	WATERLINE "A" NECHES AVENUE TO PECOS STREET STA. 15+00 STA. 24+23
6	WATERLINE "B" MAINZER AVENUE TO SABINE COURT STA. 0+00 STA. 9+83
PLANNED SEWERLINE:	
	DRAWING NAME FROM TO
7	NECHES AVENUE TO PECOS STREET STA. 0+00 STA. 7+00
8	NECHES AVENUE TO PECOS STREET STA. 7+00 STA. 12+00
9	NECHES AVENUE TO PECOS STREET STA. 12+00 STA. 19+00
10	NECHES AVENUE TO PECOS STREET STA. 19+00 STA. 24+23
11	NECHES AVENUE & PECOS STREET INTERSECTIONS
12	TYPICAL DETAILS
13	TYPICAL DETAILS
14	TYPICAL DETAILS
15	TYPICAL DETAILS
16	TYPICAL DETAILS
17	TYPICAL DETAILS
18	SWPPP
19	SWPPP NOTES

UTILITIES & AGENCIES

- ENGINEER:**
BROCK & BUSTILLOS INC.
417 EXECUTIVE CENTER BLVD.
EL PASO, TX 79902
(915) 542-4900
MR. SERGIO J. ADAME, P.E.
- CABLE TELEVISION:**
SPECTRUM
7010 AIRPORT ROAD
EL PASO, TX 79906
(915) 772-1123
MR. RAYMOND MENDOZA
- ELECTRIC:**
EL PASO ELECTRIC CO.
501 W. SAN ANTONIO ST.
EL PASO, TX 79902
(915) 543-4015
MR. RAUL GUEL (DISTRIBUTION)
- GENERAL UTILITIES:**
TEXAS EXCAVATION SAFETY SERVICE
11884 GREENVILLE AVENUE.
DALLAS, TX 75243
(800) 344-8377
- RESIDENTIAL GAS LINE:**
TEXAS GAS SERVICE
4700 POLLARD ST.
EL PASO, TX 79930
(915) 680-8218
MR. ALEX LIMON
- FIBER OPTICS:**
U.S. SPRINT
151 N. BOONE ST.
EL PASO, TX 79905
(915) 534-7910
MR. RICK DERAGISCH
- MCI TELECOMMUNICATIONS CORPS.**
4045 DONIPHAN PARK CIRCLE
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(915) 542-2770 EXT. 201
MR. DANIEL HERNANDEZ
- TELEPHONE:**
AT&T
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(915) 595-5125
MS. DIANA MACK
- EPWU PROJECT MANAGER:**
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1154 HAWKINS BLVD.
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(915) 212-1838
MR. JERRY DEMURO, P.M.P.
STREETS AND MAINTENANCE DEPT.
7969 SAN PAULO
EL PASO, TX 79907
(915) 212-0151
MR. HAROLD KUTZ, P.E.
- CITY OF EL PASO**
ENGINEERING DEPT.
218N CABELL 2ND FLR.
EL PASO, TX 79901-1196
(915) 212-1838
MR. JERRY DEMURO, P.M.P.
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EL PASO, TX 79907
(915) 212-0151
MR. HAROLD KUTZ, P.E.

02/17/2023
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 HECTOR MARTINEZ
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REV.	DATE	BY	DESCRIPTION

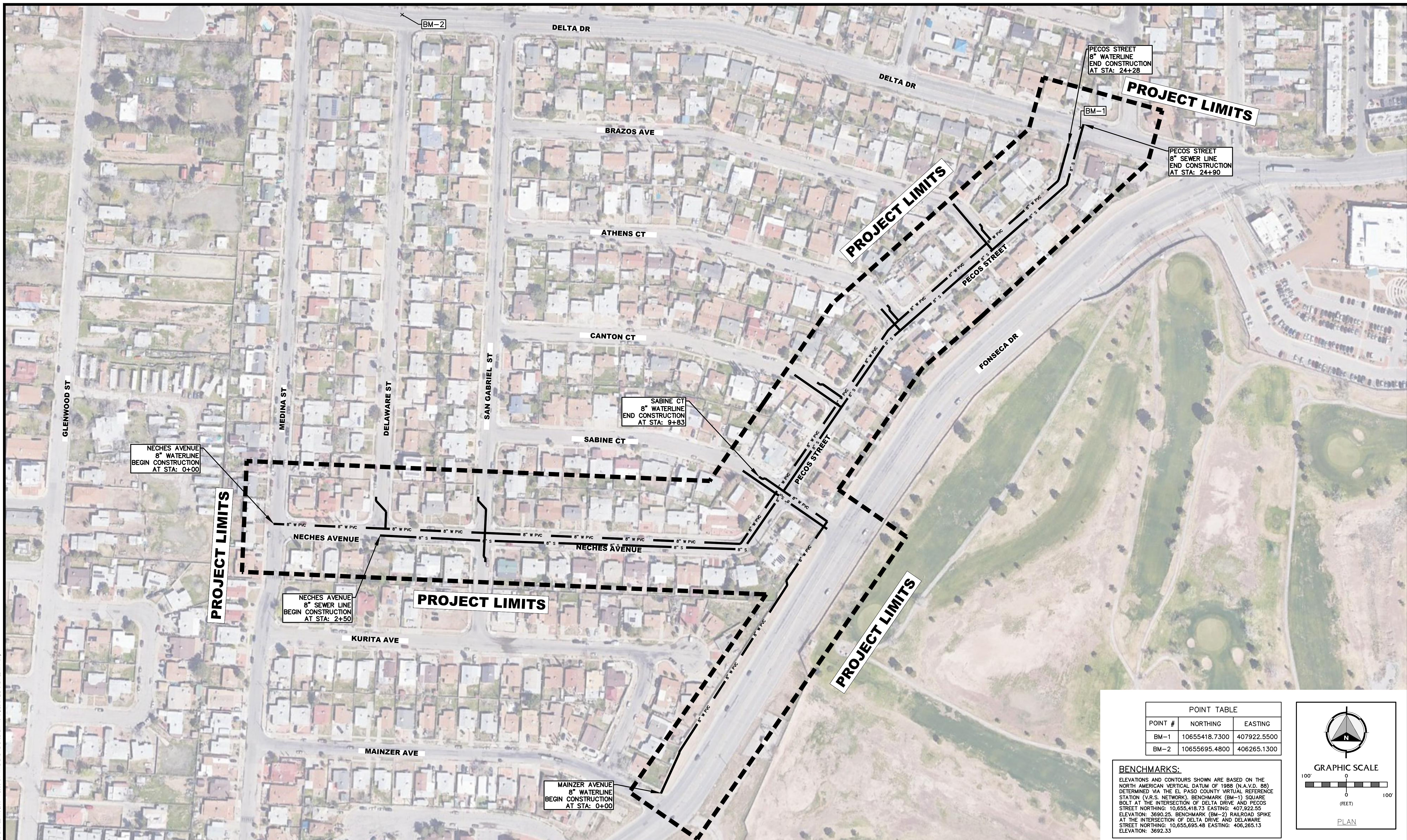
UTILITY LOCATOR SERVICES	
TIME WARNER COMMUNICATIONS	(915) 775-7415
EL PASO ELECTRIC COMPANY	(915) 877-3400
EL PASO WATER UTILITIES	(915) 594-5500
VERIZON COMMUNICATIONS	(800) 624-9675
HOLLY ENERGY PARTNERS	(915) 494-0549
TEXAS GAS SERVICE	(800) 959-5325
KINDER MORGAN	(915) 843-2441
AT&T GENERAL	(915) 595-5151



DESIGNED
H.M.
DRAWN
I.C., I.V.
CHECKED
S.J.A.
APPROVED
H.M.
DATE
02/17/2023



PROJECT:	PECOS STREET WATER AND SEWER LINE IMPROVEMENTS	JOB NO. 05970-053
SHEET TITLE:	INDEX & GENERAL NOTES	SEQUENCE NO. C1
		SHEET NO. 1 OF 19



NECHES AVENUE
8" WATERLINE
BEGIN CONSTRUCTION
AT STA: 0+00

NECHES AVENUE
8" SEWER LINE
BEGIN CONSTRUCTION
AT STA: 2+50

SABINE CT
8" WATERLINE
END CONSTRUCTION
AT STA: 9+83

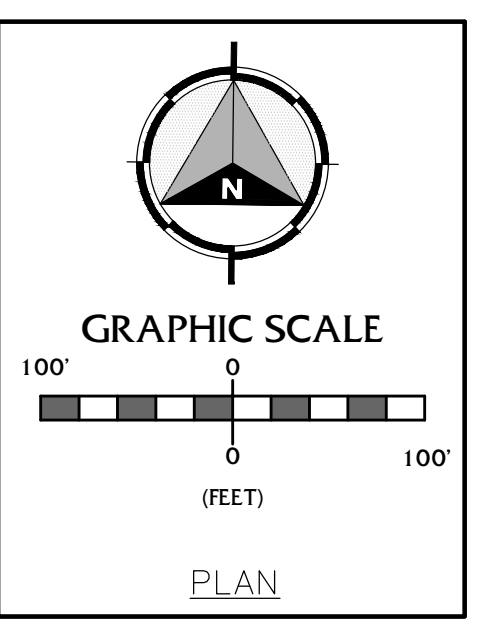
PECOS STREET
8" WATERLINE
END CONSTRUCTION
AT STA: 24+28

PECOS STREET
8" SEWER LINE
END CONSTRUCTION
AT STA: 24+90

MAINZER AVENUE
8" WATERLINE
BEGIN CONSTRUCTION
AT STA: 0+00

POINT TABLE		
POINT #	NORTHING	EASTING
BM-1	10655418.7300	407922.5500
BM-2	10655695.4800	406265.1300

BENCHMARKS:
ELEVATIONS AND CONTOURS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88) DETERMINED VIA THE EL PASO COUNTY VIRTUAL REFERENCE STATION (V.R.S. NETWORK). BENCHMARK (BM-1) SQUARE BOLT AT THE INTERSECTION OF DELTA DRIVE AND PECOS STREET NORTHING: 10,655,418.73 EASTING: 407,922.55 ELEVATION: 3690.25. BENCHMARK (BM-2) RAILROAD SPIKE AT THE INTERSECTION OF DELTA DRIVE AND DELAWARE STREET NORTHING: 10,655,695.48 EASTING: 406,265.13 ELEVATION: 3692.33



REV.	DATE	BY	DESCRIPTION

UTILITY LOCATOR SERVICES	
TIME WARNER COMMUNICATIONS	(915) 775-7415
EL PASO ELECTRIC COMPANY	(915) 877-3400
EL PASO WATER UTILITIES	(915) 594-5500
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TEXAS GAS SERVICE	(800) 959-5325
KINDER MORGAN	(915) 843-2441
AT&T GENERAL	(915) 595-5151

STOP!
CALL BEFORE YOU DIG

FOR FIELD LOCATING EXISTING UTILITIES

DESIGNED
H.M.
DRAWN
I.C., I.V.
CHECKED
S.J.A.
APPROVED
H.M.
DATE
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BROCK & BUSTILLOS INC.
CONSULTING CIVIL ENGINEERS
LAND SURVEYORS

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PH (915) 542-4800
FAX (915) 542-2987
TBPB Registration Number: F-737

JOB NO. 05970-053

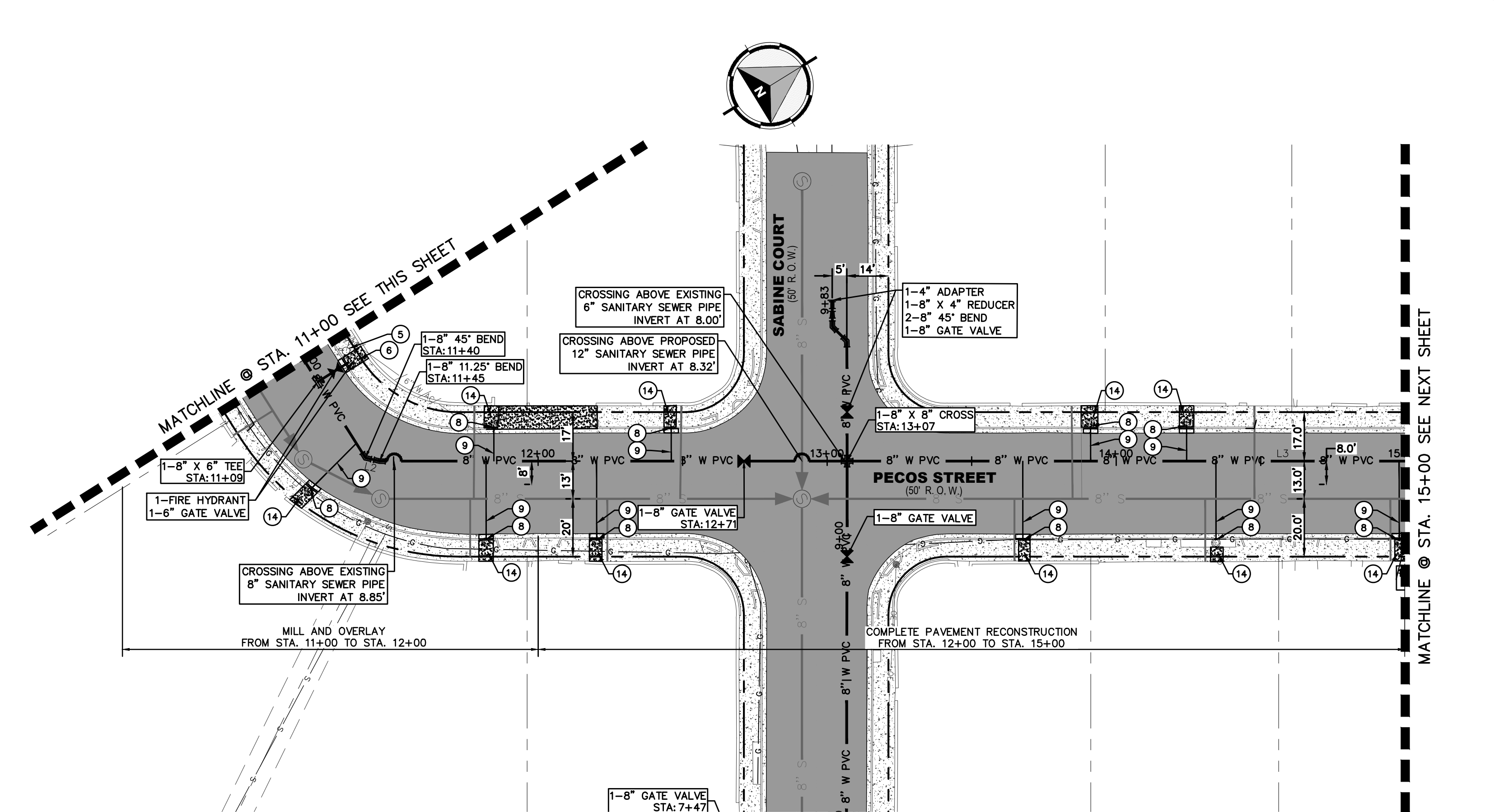
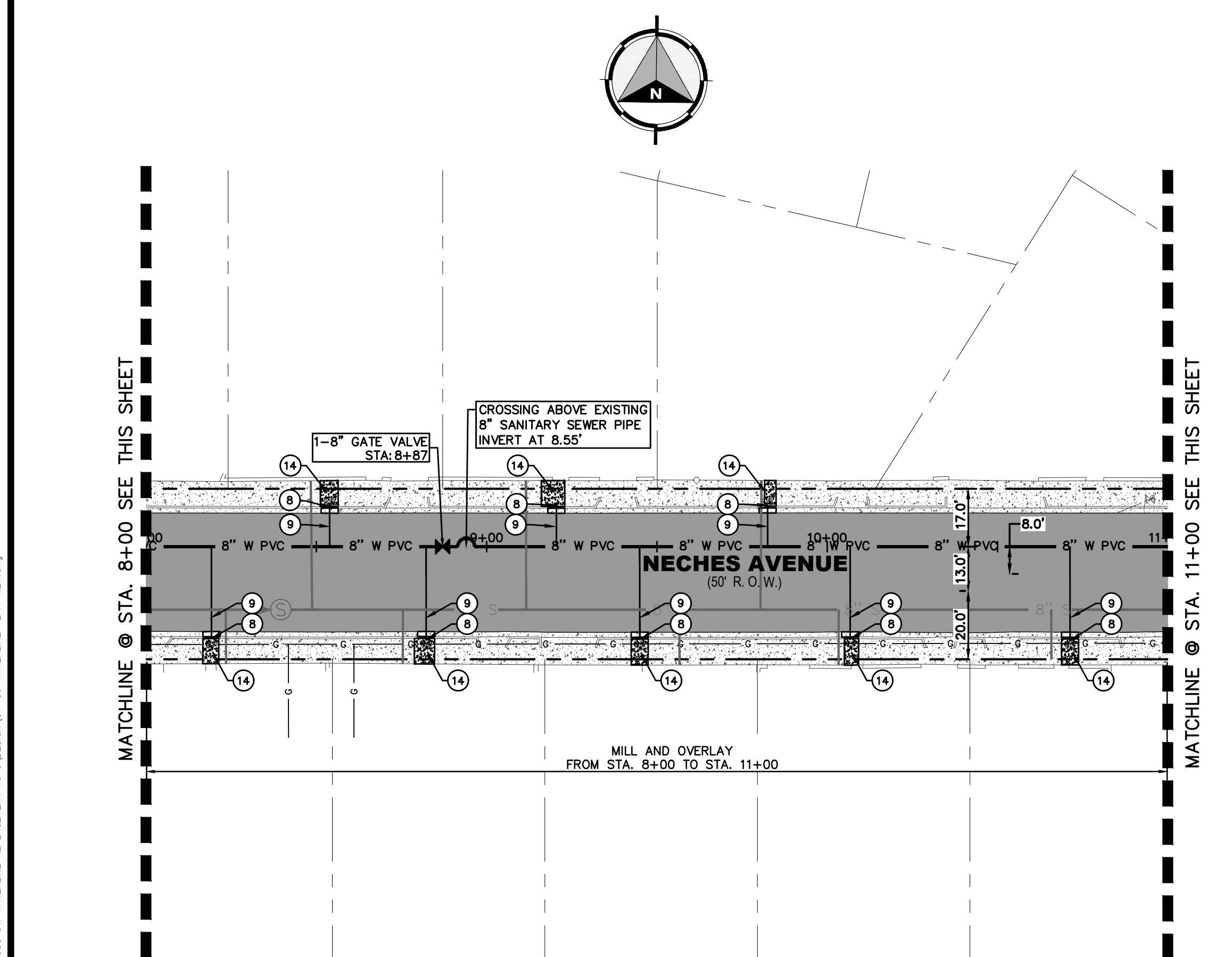
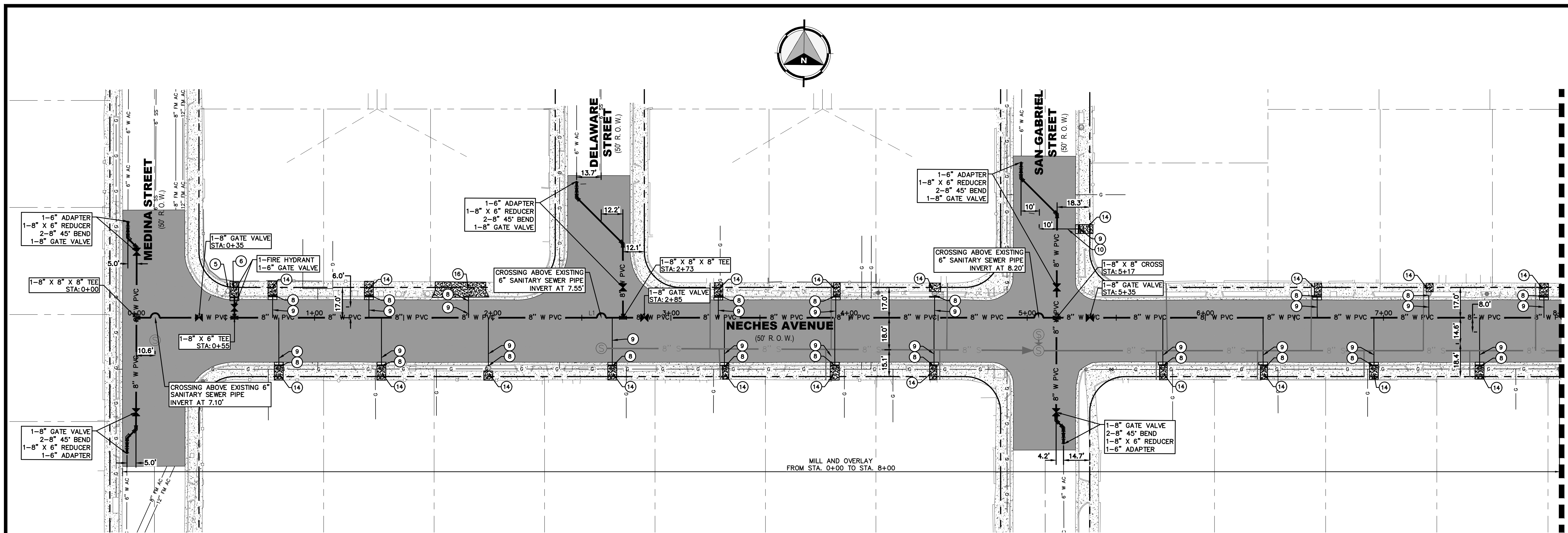
PROJECT: PECOS STREET WATER AND SEWER LINE IMPROVEMENTS

SHEET TITLE: OVERALL MAP

JOB NO. 05970-053
SEQUENCE NO. C2
SHEET NO. 2 OF 19

02/16/2023
 HECTOR MARTINEZ
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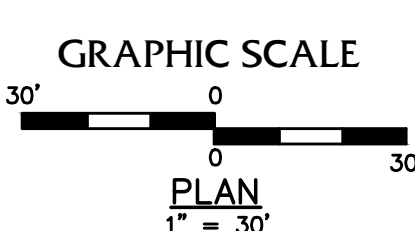
NEW CONSTRUCTION SUMMARY PECOS STREET FROM STA. 0+00 TO 15+00		
NO.	ITEM	QUANTITY
2	6" PVC (CLASS 305) WATERLINE	26 LF
3	8" PVC (CLASS 305) WATERLINE	1890 LF
4	TRENCH SAFETY SYSTEM	1916 LF
5	REMOVE & SALVAGE FIRE HYDRANTS	2 EA
6	NEW FIRE HYDRANT	2 EA
7	FURNISH AND INSTALL METER BOX AND LID	33 EA
8	3/4" COPPER SERVICE CONNECTIONS	33 EA
9	3/4" COPPER SERVICE LINE	792 LF
10	6" CRUSHED STONE BASECOURSE	738 SY
11	2" HMAC PAVEMENT REPLACEMENT (TXDOT TYPE C)	738 SY
12	14" 2 SACK SOIL CEMENT	1060 SY
13	MILL AND OVERLAY	3897 SY
14	REMOVE & REPLACE CONCRETE SIDEWALK	1409 SF
15	REMOVE & REPLACE CURB & GUTTER	180 LF
16	REMOVE & REPLACE CONCRETE DRIVEWAY	522 SF
18	POTHOLING IN STREET	16 EA



BENCHMARK:
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KEY MAP
1" = 1000'



REV.	DATE	BY	DESCRIPTION

UTILITY LOCATOR SERVICES	
TIME WARNER COMMUNICATIONS	(915) 775-7415
EL PASO ELECTRIC COMPANY	(915) 877-3400
EL PASO WATER UTILITIES	(915) 594-5500
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BROCK & BUSTILLOS INC.
CONSULTING CIVIL ENGINEERS
LAND SURVEYORS

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WWW.BROCKBUSTILLOS.COM

PH (915) 542-4800
FAX (915) 542-2887
TYPE Registration Number: F-757

JOB NO. 05970-053

PROJECT:
PECOS STREET WATER AND SEWER LINE IMPROVEMENTS

SHEET TITLE:
WATERLINE "A" NECHES AVENUE TO PECOS STREET FROM STA. 0+00 TO STA. 15+00

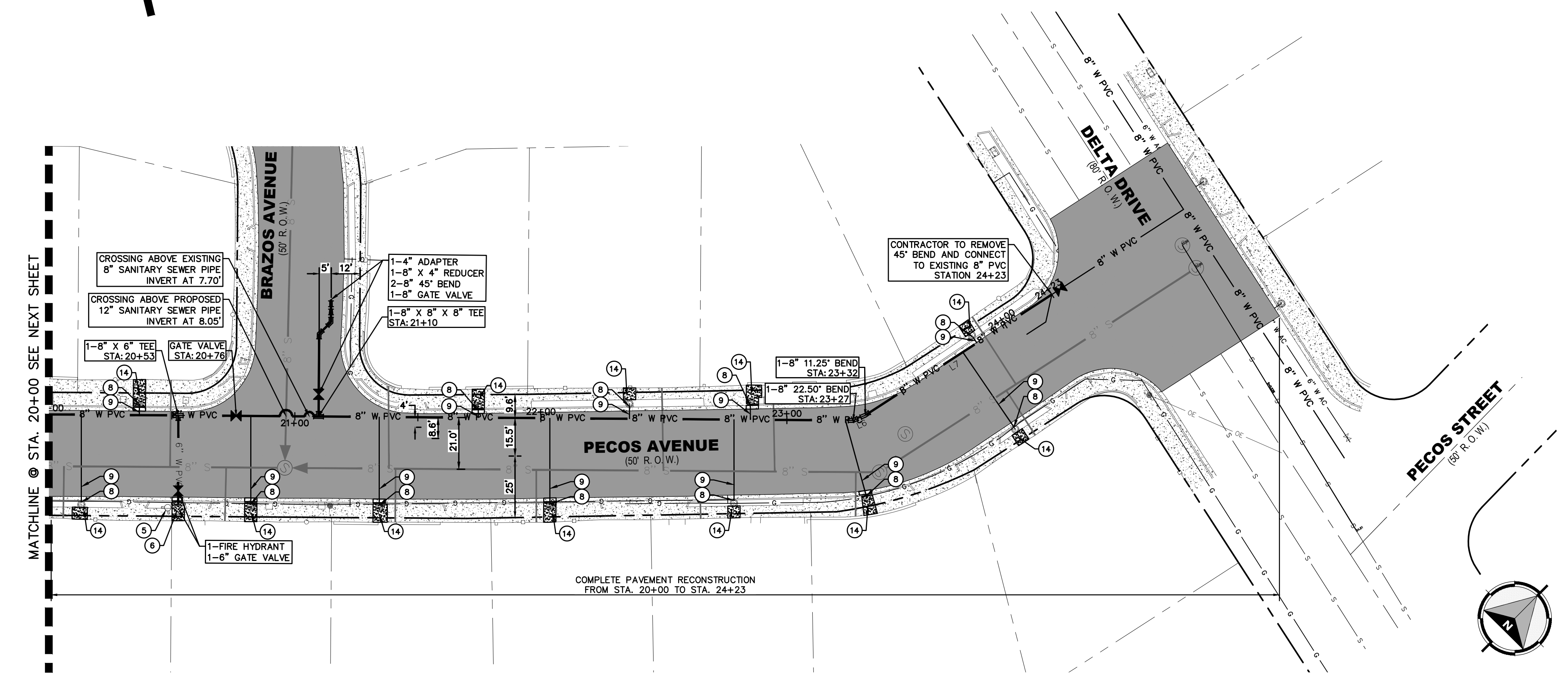
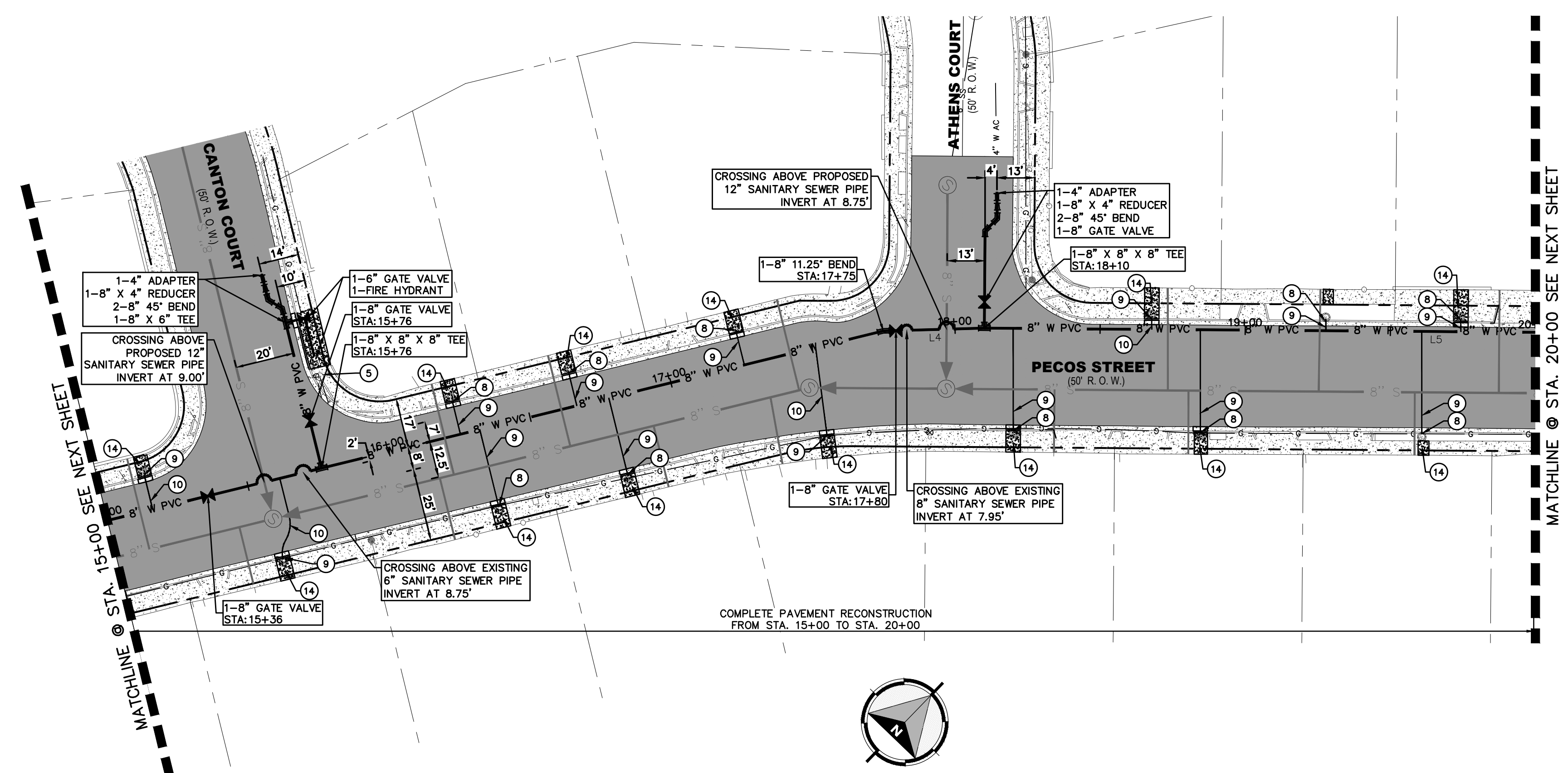
JOB NO.
05970-053

SEQUENCE NO.
C4

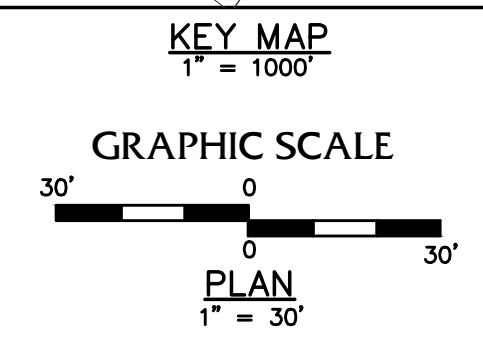
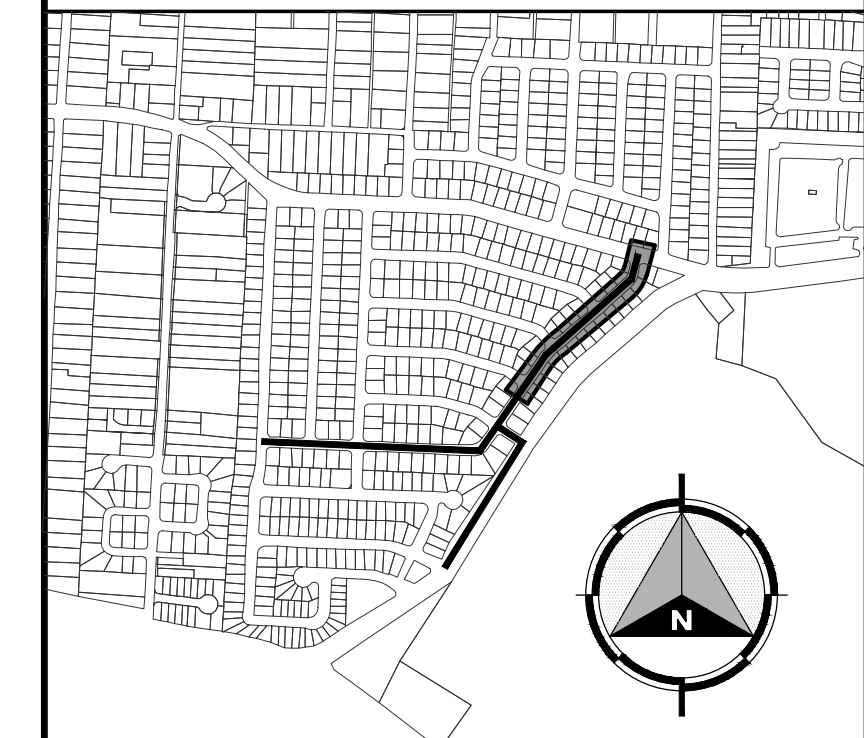
SHEET NO.
4 OF 19

02/16/2023
MORAN, MICHAE
S:\PROJECTS\05970 - EL PASO WATER - WFL - FB8 ENGINEERING\053 - PECOS ST. WATERLINE REPLACEMENT TO SUBDESIGN\CD - WATERLINE PLAN VIEW.dwg

NEW CONSTRUCTION SUMMARY PECOS STREET FROM STA. 15+00 TO 30+00		
NO.	ITEM	QUANTITY
2	6" PVC (CLASS 305) WATERLINE	56 LF
3	8" PVC (CLASS 305) WATERLINE	1096 LF
5	TRENCH SAFETY SYSTEM	1152 LF
6	REMOVE & SALVAGE FIRE HYDRANTS	2 EA
7	NEW FIRE HYDRANT	2 EA
8	FURNISH AND INSTALL METER BOX AND LID	26 EA
9	3/4" COPPER SERVICE CONNECTIONS	26 EA
10	3/4" COPPER SERVICE LINE	562 LF
17	6" CRUSHED STONE BASECOURSE	3498 SY
18	2" HIMAC PAVEMENT REPLACEMENT (TXDOT TYPE C)	3498 SY
19	REMOVE & REPLACE CONCRETE SIDEWALK	1120 SF
20	REMOVE & REPLACE CURB & GUTTER	110 LF
24	POTHOLING IN STREET	8 EA



BENCHMARK:
 ELEVATIONS AND CONTOURS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88) DETERMINED VIA THE EL PASO COUNTY VIRTUAL REFERENCE STATION (V.R.S. NETWORK). BENCHMARK (BM-1) SQUARE BOLT AT THE INTERSECTION OF DELTA DRIVE AND PECOS STREET NORTHING: 10,655,418.73 EASTING: 407,922.55 ELEVATION: 3690.25. BENCHMARK (BM-2) RAILROAD SPIKE AT THE INTERSECTION OF DELTA DRIVE AND DELAWARE STREET NORTHING: 10,655,695.48 EASTING: 406,265.13 ELEVATION: 3692.33



02/16/2023
 S:\Projects\05970 - EL PASO WATER - PFCB ENGINEERING\055 - PECOS ST. WATERLINE REPLACEMENT TO 5' DESIGN\CH-05 WATERLINE PLAN VIEW.dwg

REV.	DATE	BY	DESCRIPTION

UTILITY LOCATOR SERVICES	
TIME WARNER COMMUNICATIONS	(915) 775-7415
EL PASO ELECTRIC COMPANY	(915) 877-3400
EL PASO WATER UTILITIES	(915) 594-5500
VERIZON COMMUNICATIONS	(800) 624-9675
HOLLY ENERGY PARTNERS	(915) 494-0549
TEXAS GAS SERVICE	(800) 959-5325
KINDER MORGAN	(915) 843-2441
AT&T GENERAL	(915) 595-5151

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DESIGNED
H.M.
DRAWN
I.C., I.V.
CHECKED
S.J.A.
APPROVED
H.M.
DATE
02/17/2023

417 EXECUTIVE CENTER
EL PASO, TEXAS 79902
WWW.BROCKBUSTILLOS.COM

PH (915) 842-4800
FAX (915) 842-2987
TBE Registration Number: F-737

JOB NO. 05970-053

PROJECT:
PECOS STREET WATER AND SEWER LINE IMPROVEMENTS

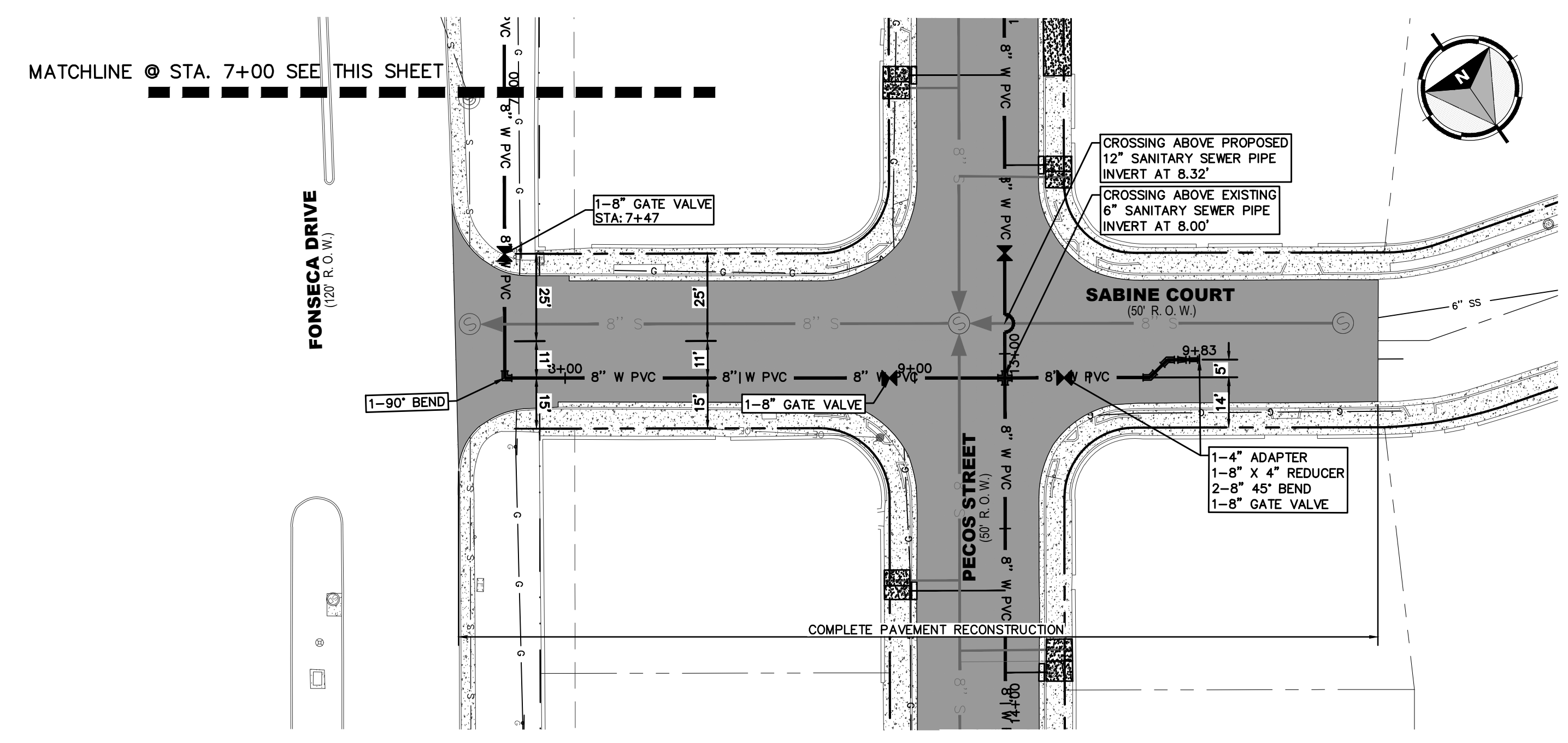
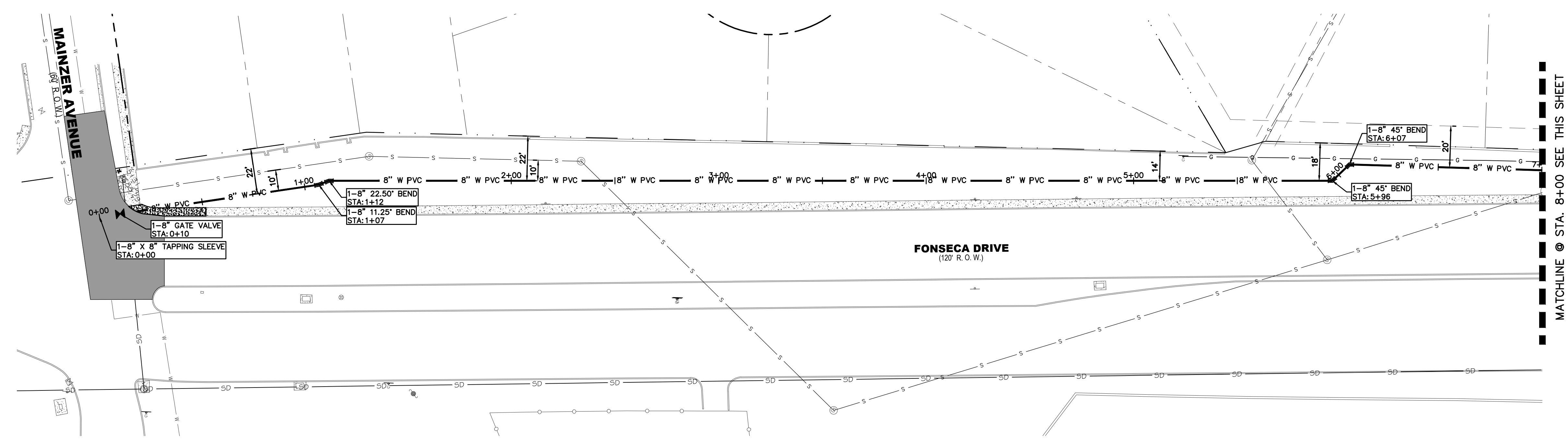
SHEET TITLE:
WATERLINE "A" NECHES AVENUE TO PECOS STREET FROM STA. 15+00 TO STA. 24+23

JOB NO.
05970-053

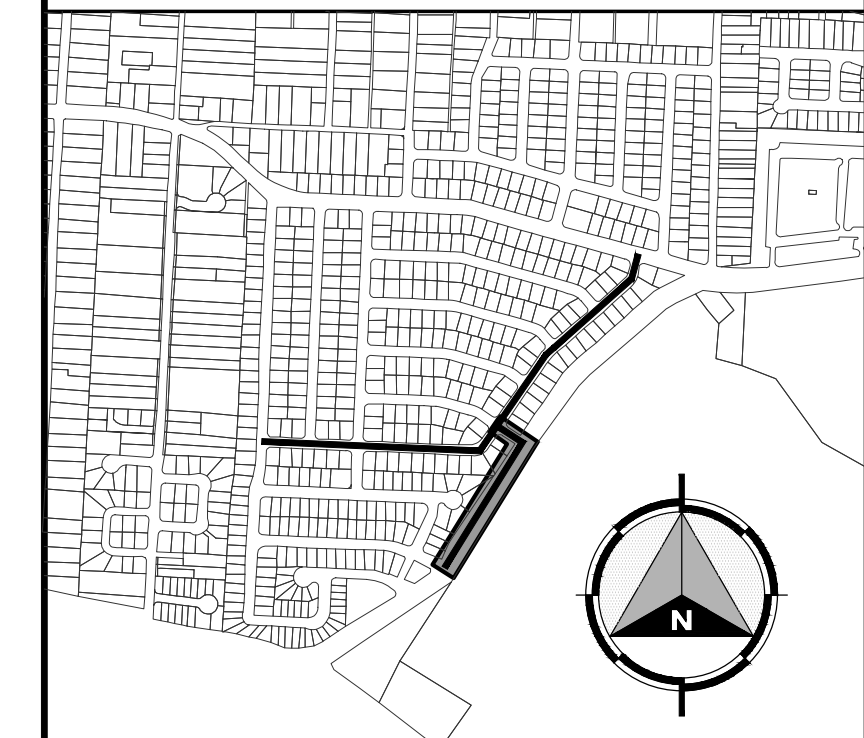
SEQUENCE NO.
C5

SHEET NO.
5 OF 19

NEW CONSTRUCTION SUMMARY FONSECA DRIVE FROM STA. 15+00 TO 30+00		
NO.	ITEM	QUANTITY
3	8" PVC (CLASS 305) WATERLINE	984 LF
4	TRENCH SAFETY SYSTEM	984 LF
10	6" CRUSHED STONE BASECOURSE	645 SY
11	2" HMAC PAVEMENT REPLACEMENT (TXDOT TYPE C)	645 SY
12	14" 2 SACK SOIL CEMENT	30 SY
13	2" MILL AND OVERLAY	290 SY
14	REMOVE & REPLACE CONCRETE SIDEWALK	137 SF
15	REMOVE & REPLACE CURB & GUTTER	38 LF
18	POTHOLING IN STREET	3 EA



BENCHMARK:
 ELEVATIONS AND CONTOURS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88) DETERMINED VIA THE EL PASO COUNTY VIRTUAL REFERENCE STATION (V.R.S. NETWORK). BENCHMARK (BM-1) SQUARE BOLT AT THE INTERSECTION OF DELTA DRIVE AND PECOS STREET NORTHING: 10,655,418.73 EASTING: 407,922.55 ELEVATION: 3690.25. BENCHMARK (BM-2) RAILROAD SPIKE AT THE INTERSECTION OF DELTA DRIVE AND DELAWARE STREET NORTHING: 10,655,695.48 EASTING: 406,265.13 ELEVATION: 3692.33



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REV.	DATE	BY	DESCRIPTION

UTILITY LOCATOR SERVICES	
TIME WARNER COMMUNICATIONS	(915) 775-7415
EL PASO ELECTRIC COMPANY	(915) 877-3400
EL PASO WATER UTILITIES	(915) 594-5500
VERIZON COMMUNICATIONS	(800) 624-9675
HOLLY ENERGY PARTNERS	(915) 494-0549
TEXAS GAS SERVICE	(800) 959-5325
KINDER MORGAN	(915) 843-2441
AT&T GENERAL	(915) 595-5151

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HECTOR MARTINEZ
 132659
 LICENSED PROFESSIONAL ENGINEER
 02/17/2023

DESIGNED
H.M.
 DRAWN
I.C., I.V.
 CHECKED
S.J.A.
 APPROVED
H.M.
 DATE
02/17/2023

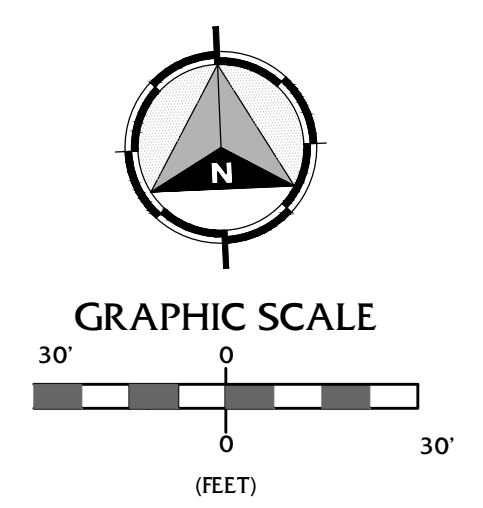
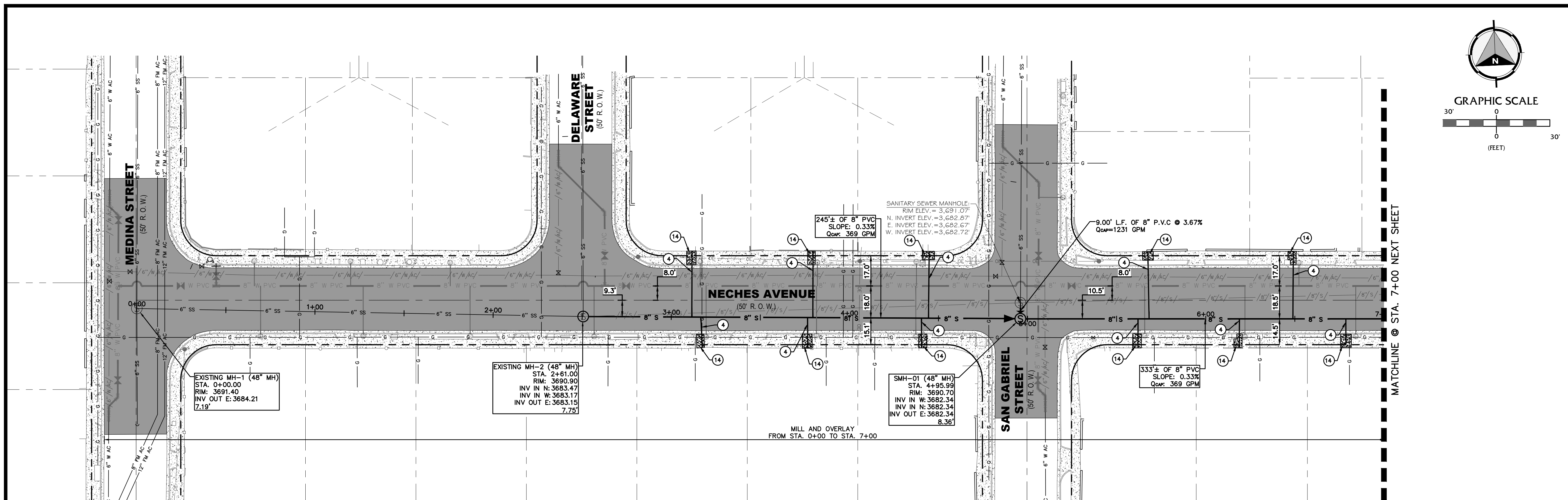
BROCK & BUSTILLOS INC.
 CONSULTING CIVIL ENGINEERS
 LAND SURVEYORS
 417 EXECUTIVE CENTER
 EL PASO, TEXAS 79902
 WWW.BROCKBUSTILLOS.COM
 PH (915) 542-4800
 FAX (915) 542-2987
 TBPE Registration Number: F-737
 JOB NO. 05970-053

el paso WATER

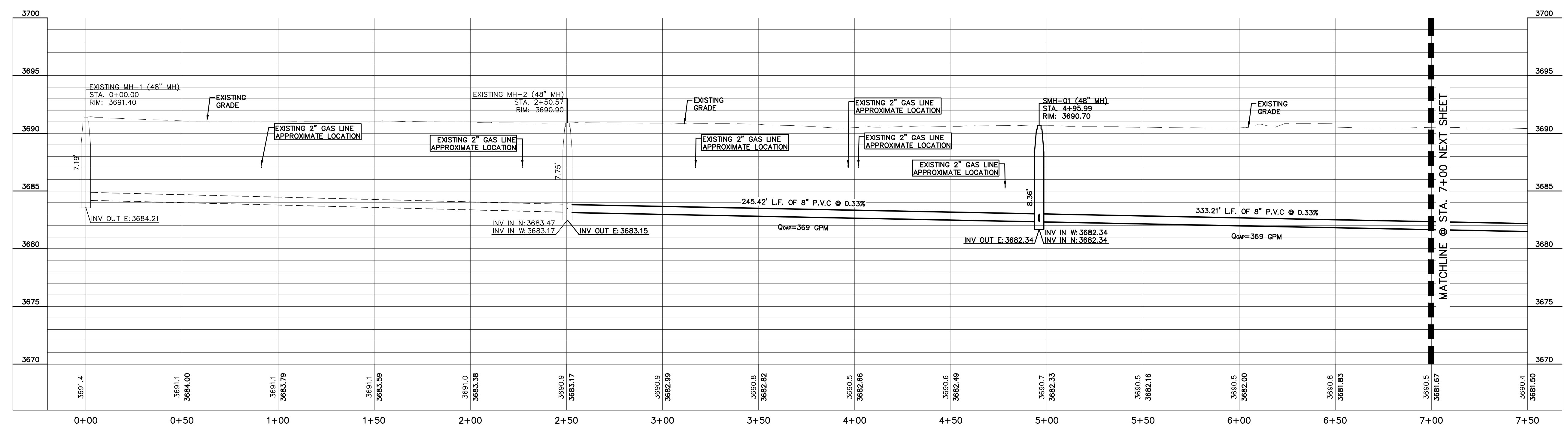
PROJECT: **PECOS STREET WATER AND SEWER LINE IMPROVEMENTS**

SHEET TITLE: **WATERLINE "B" MAINZER AVENUE TO SABINE COURT FROM STA. 00+00 TO STA. 9+83**

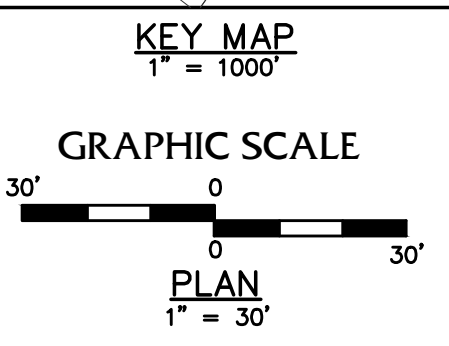
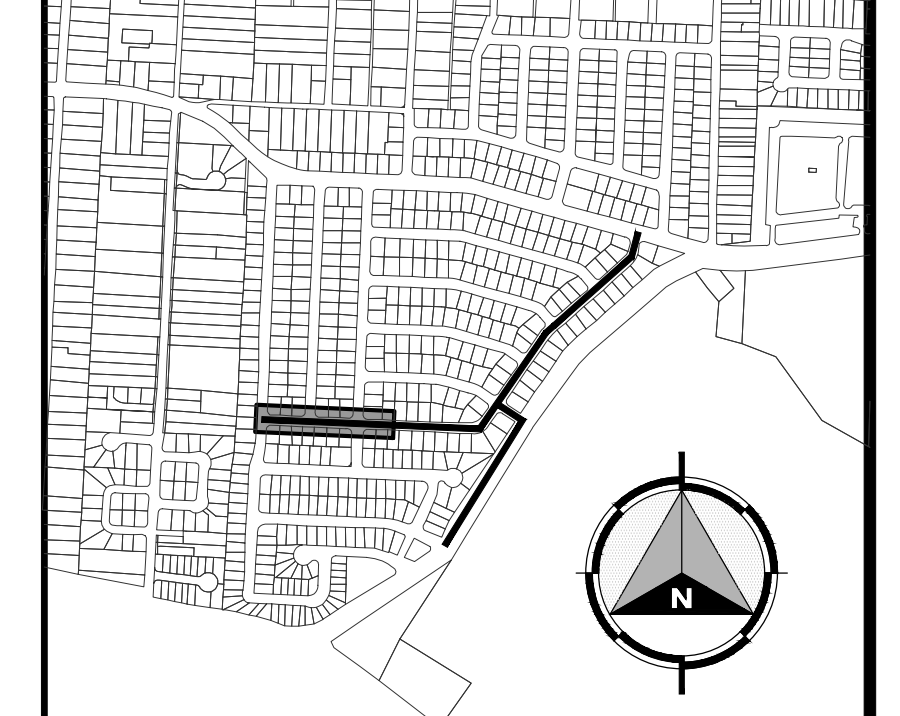
JOB NO. 05970-053
SEQUENCE NO. C6
SHEET NO. 6 OF 19



NEW CONSTRUCTION SUMMARY PECOS STREET FROM STA. 0+00 TO 7+00		
NO.	ITEM	QUANTITY
2	8" PVC (SDR 35) SEWERLINE	449 LF
3	TRENCH SAFETY SYSTEM	449 LF
4	REPLACEMENT OF 4" TO 8" SEWER SERVICE	11 EA
5	48" SEWER MANHOLE	1 EA
6	48" VERTICAL FEET	3 LF
9	TRIPLEX LINER	9 VF
12	14-INCH 2 SACK SOIL CEMENT	300 SY
13	2" MILL AND OVERLAY	1349 SY
14	REMOVE & REPLACE CONCRETE SIDEWALK	392 SF
17	CONCRETE COLLAR	3 EA
19	POTHOLES IN STREET	3 EA

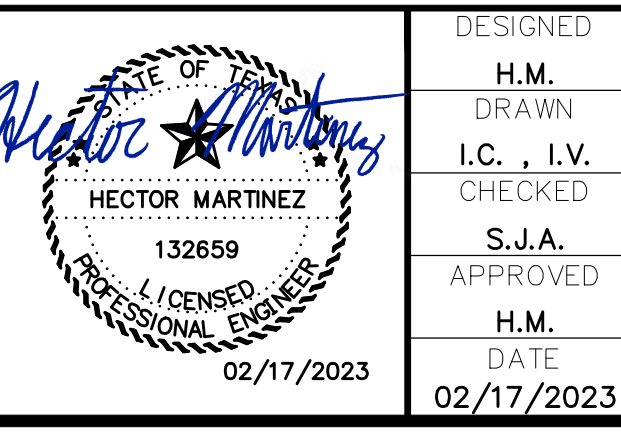


BENCHMARK:
 ELEVATIONS AND CONTOURS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88) DETERMINED VIA THE EL PASO COUNTY VIRTUAL REFERENCE STATION (V.R.S. NETWORK). BENCHMARK (BM-1) SQUARE BOLT AT THE INTERSECTION OF DELTA DRIVE AND PECOS STREET NORTHING: 10,655,418.73 EASTING: 407,922.55 ELEVATION: 3690.25. BENCHMARK (BM-2) RAILROAD SPIKE AT THE INTERSECTION OF DELTA DRIVE AND DELAWARE STREET NORTHING: 10,655,695.48 EASTING: 406,265.13 ELEVATION: 3692.33



REV.	DATE	BY	DESCRIPTION

UTILITY LOCATOR SERVICES	
TIME WARNER COMMUNICATIONS	(915) 775-7415
EL PASO ELECTRIC COMPANY	(915) 877-3400
EL PASO WATER UTILITIES	(915) 594-5500
VERIZON COMMUNICATIONS	(800) 624-9675
HOLLY ENERGY PARTNERS	(915) 494-0549
TEXAS GAS SERVICE	(800) 959-5325
KINDER MORGAN	(915) 843-2441
AT&T GENERAL	(915) 595-5151



DESIGNED
H.M.
DRAWN
I.C., I.V.
CHECKED
S.J.A.
APPROVED
H.M.
DATE
02/17/2023



PROJECT: PECOS STREET WATER AND SEWER LINE IMPROVEMENTS

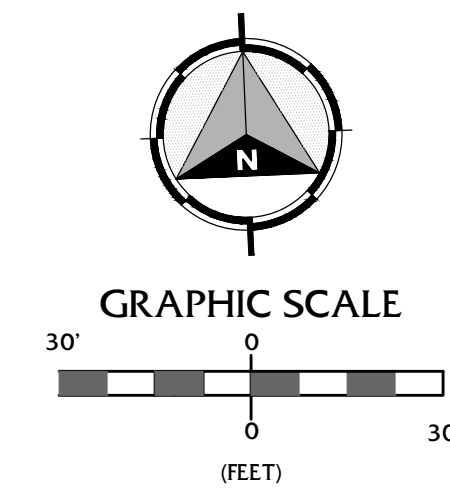
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JOB NO. 05970-053

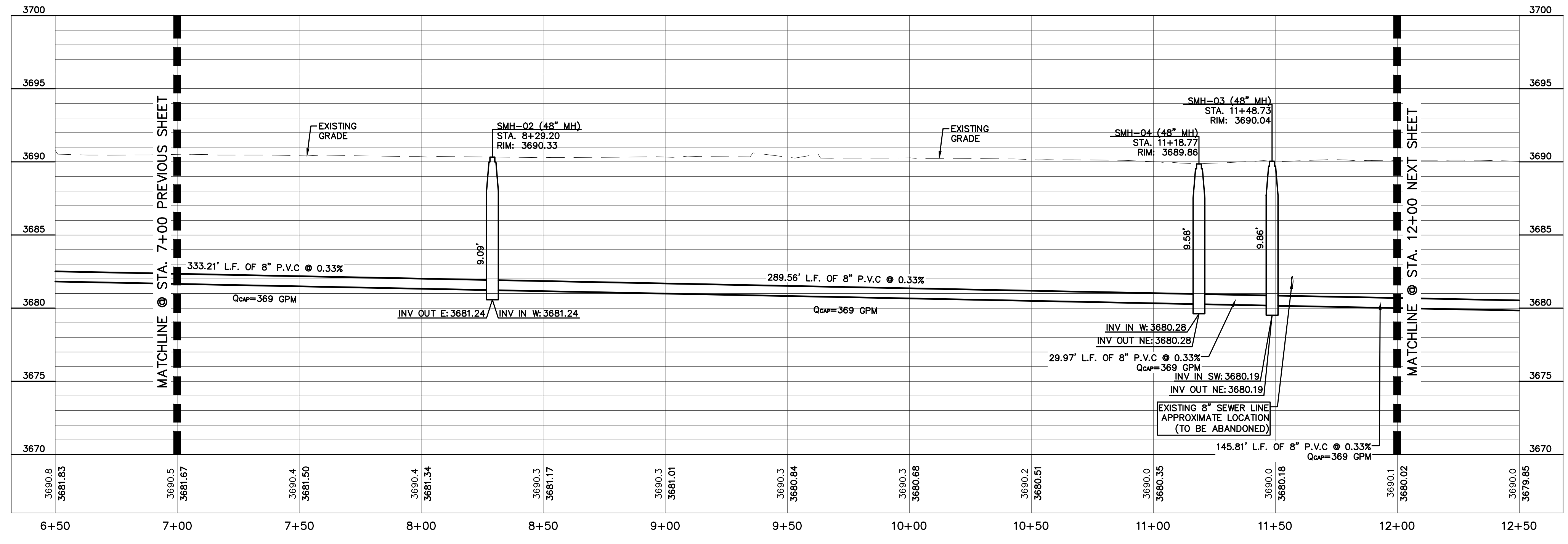
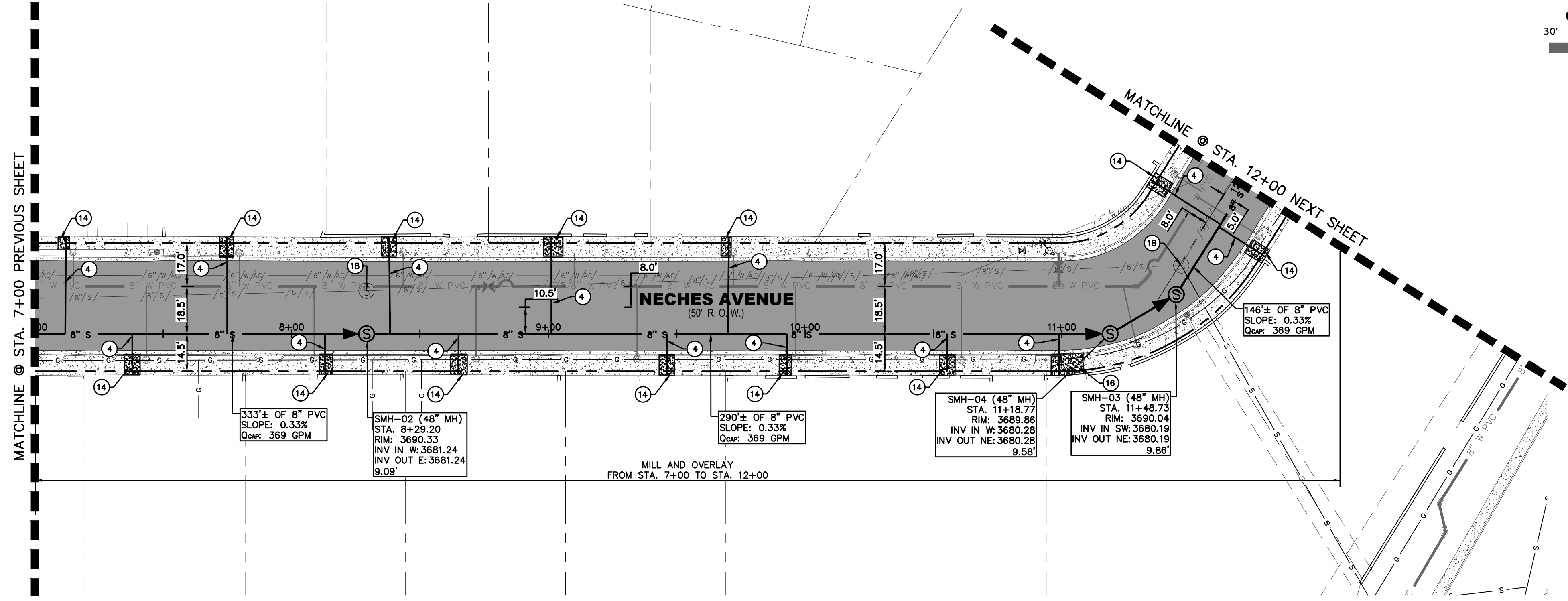
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SHEET NO. 7 OF 19

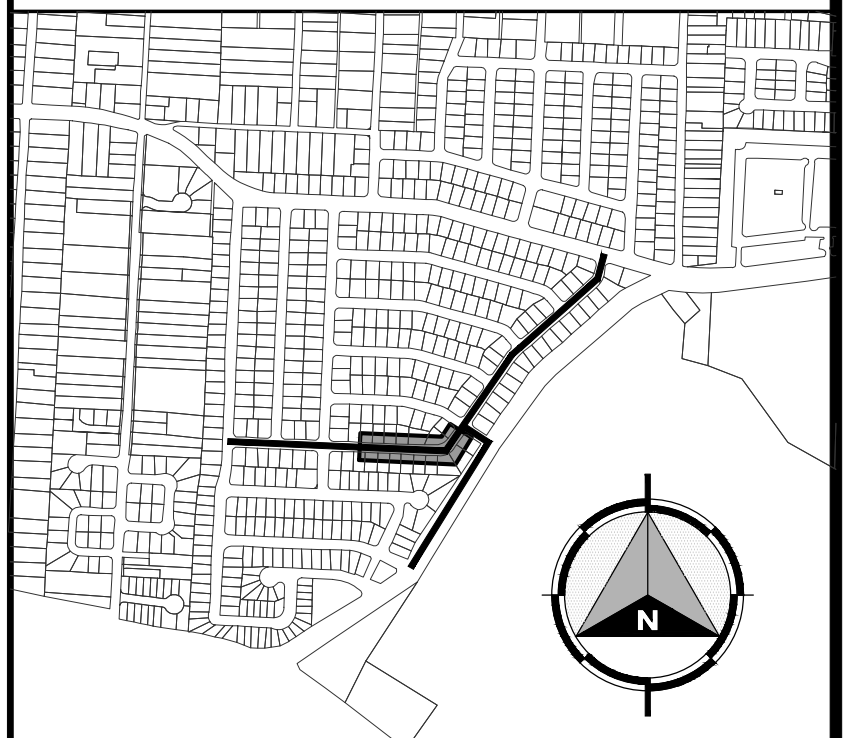
02/17/2023
 HECTOR MARTINEZ
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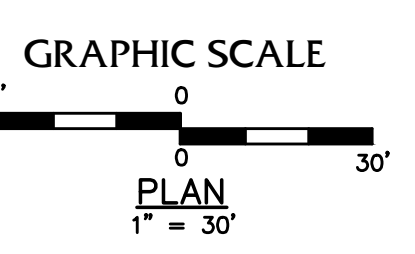
NEW CONSTRUCTION SUMMARY PECOS STREET FROM STA. 7+00 TO 12+00		
NO.	ITEM	QUANTITY
2	8" PVC (SDR 35) SEWERLINE	500 LF
3	TRENCH SAFETY SYSTEM	500 LF
4	REPLACEMENT OF 4" TO 8" SEWER SERVICE	14 EA
5	48" SEWER MANHOLE	3 EA
6	48" VERTICAL FEET	12 LF
9	TRIPLEX LINER	30 VF
12	14-INCH 2 SACK SOIL CEMENT	333 SY
13	2" MILL AND OVERLAY	604 SY
14	REMOVE & REPLACE CONCRETE SIDEWALK	541 SF
15	REMOVE & REPLACE CURB & GUTTER	76 LF
16	REMOVE AND REPLACE CONCRETE DRIVEWAY	99 SF
18	ABANDONMENT OF SANITARY SEWER MANHOLE	2 EA
19	POTHOLING IN STREET	1 EA



BENCHMARK:
 ELEVATIONS AND CONTOURS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88) DETERMINED VIA THE EL PASO COUNTY VIRTUAL REFERENCE STATION (V.R.S. NETWORK). BENCHMARK (BM-1) SQUARE BOLT AT THE INTERSECTION OF DELTA DRIVE AND PECOS STREET NORTHING: 10,655,418.73 EASTING: 407,922.55 ELEVATION: 3690.25. BENCHMARK (BM-2) RAILROAD SPIKE AT THE INTERSECTION OF DELTA DRIVE AND DELAWARE STREET NORTHING: 10,655,695.48 EASTING: 406,265.13 ELEVATION: 3692.33



KEY MAP
1" = 1000'



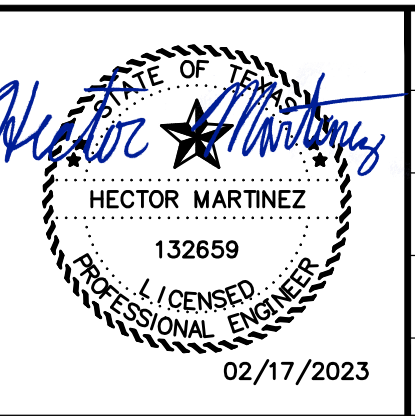
PLAN
1" = 30'

02/17/2023
 HECTOR MARTINEZ
 S:\Projects\05970 - EL PASO WATER - FSB ENGINEERING\053- PECOS ST. WATERLINE REPLACEMENT TO S\DESIGN\053-011 SEWERLINE PLAN & PROFILE.dwg

REV.	DATE	BY	DESCRIPTION

UTILITY LOCATOR SERVICES

TIME WARNER COMMUNICATIONS (915) 775-7415
 EL PASO ELECTRIC COMPANY (915) 877-3400
 EL PASO WATER UTILITIES (915) 594-5500
 VERIZON COMMUNICATIONS (800) 624-9675
 HOLLY ENERGY PARTNERS (915) 494-0549
 TEXAS GAS SERVICE (800) 959-5325
 KINDER MORGAN (915) 843-2441
 AT&T GENERAL (915) 595-5151



DESIGNED
H.M.
DRAWN
I.C., I.V.
CHECKED
S.J.A.
APPROVED
H.M.
DATE
02/17/2023

BROCK & BUSTILLOS INC.
 CONSULTING CIVIL ENGINEERS
 LAND SURVEYORS

417 EXECUTIVE CENTER
 EL PASO, TEXAS 79902
 WWW.BROCKBUSTILLOS.COM

PH (915) 542-4800
 FAX (915) 542-2987
 TPE Registration Number: F-737

JOB NO. 05970-053



PROJECT:
PECOS STREET WATER AND SEWER LINE IMPROVEMENTS

SHEET TITLE:
NECHES AVENUE TO PECOS STREET FROM STA. 7+00 TO STA. 12+00

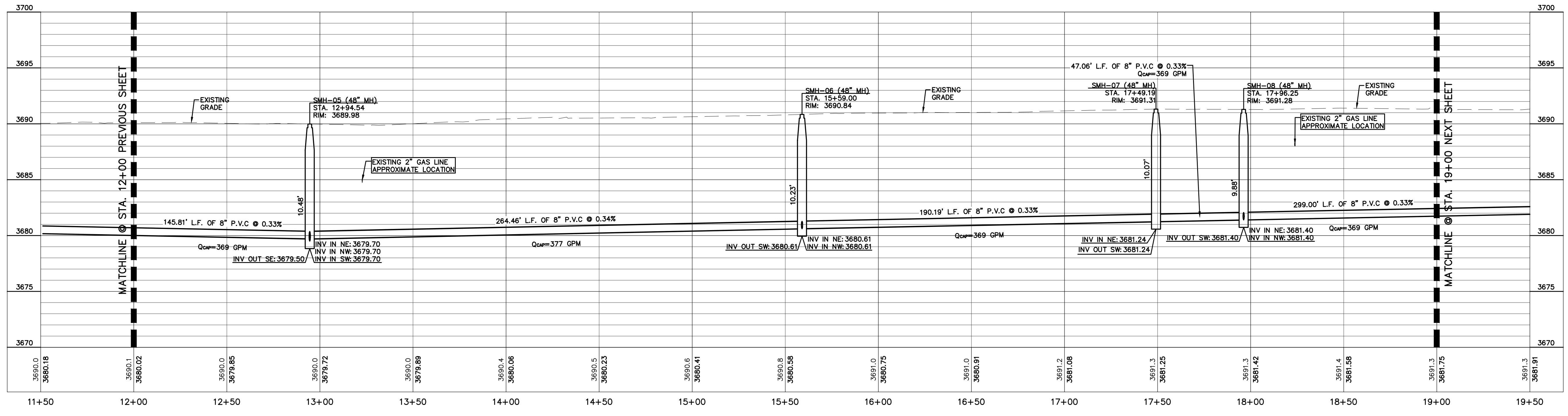
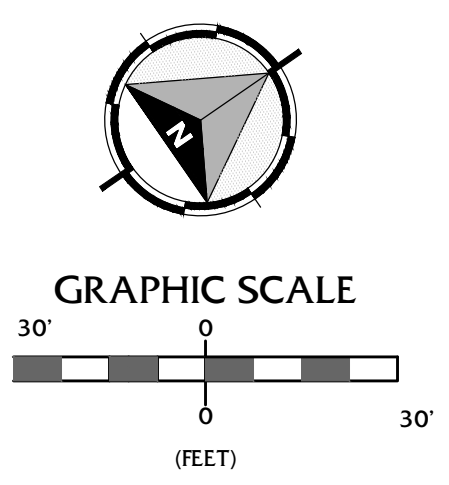
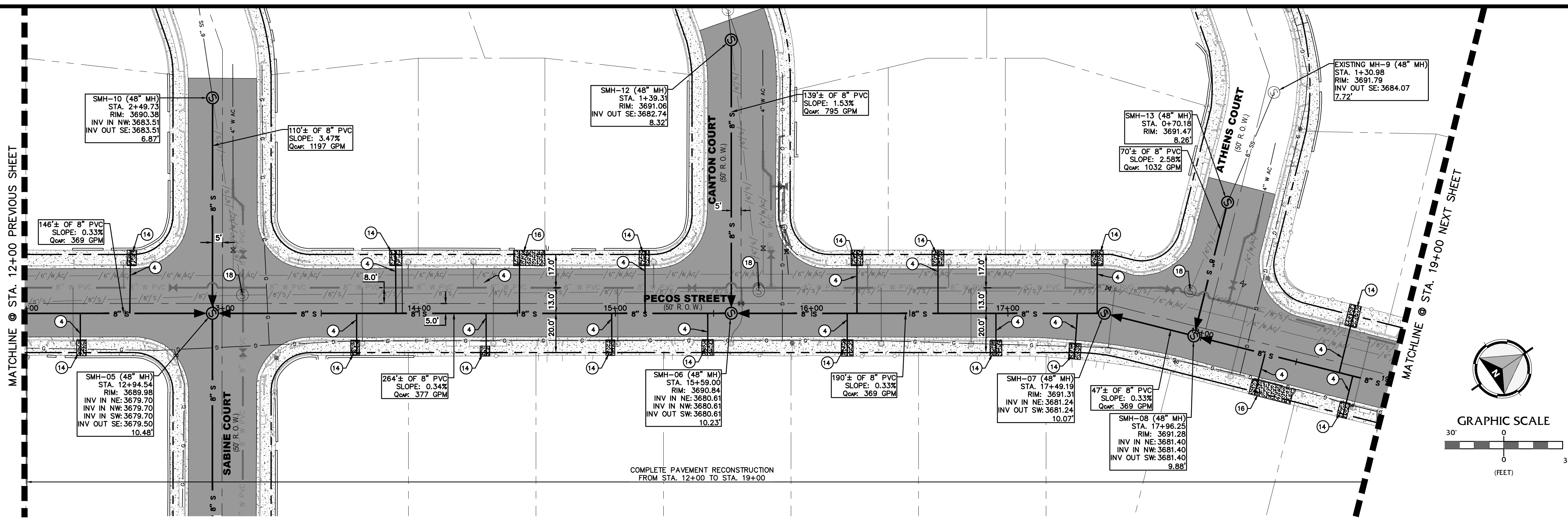
JOB NO.
05970-053

SEQUENCE NO.
C8

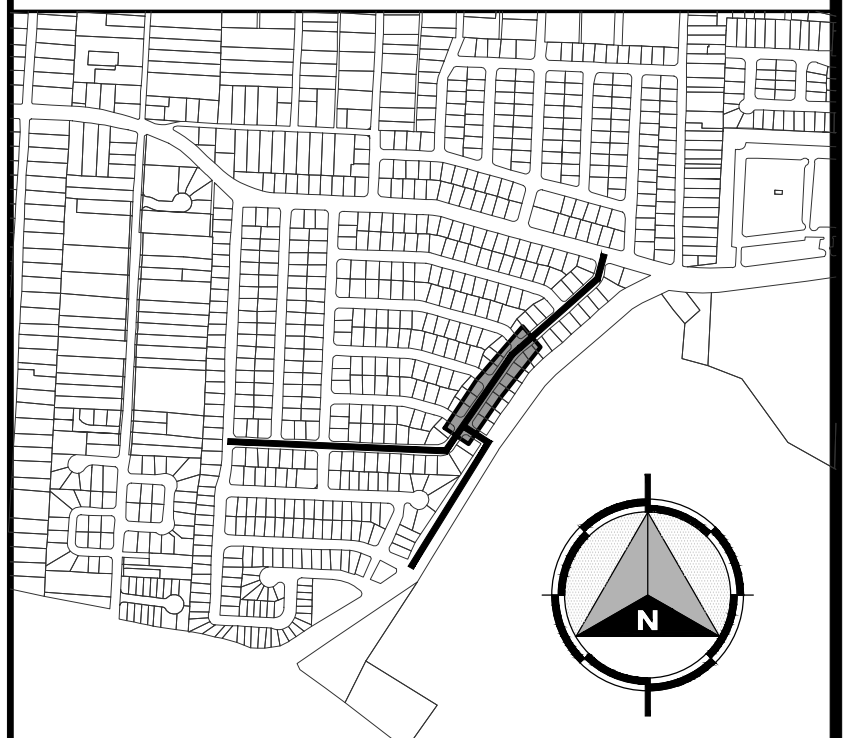
SHEET NO.
8 OF 19

NEW CONSTRUCTION SUMMARY
PECOS STREET FROM STA. 12+00 TO 19+00

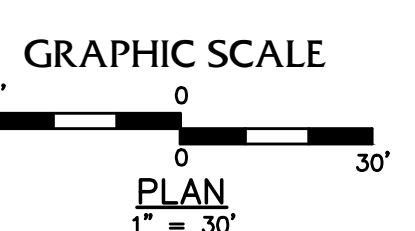
NO.	ITEM	QUANTITY
2	8" PVC (SDR 35) SEWERLINE	700 LF
3	TRENCH SAFETY SYSTEM	700 LF
4	REPLACEMENT OF 4" TO 8" SEWER SERVICE	18 EA
5	48" SEWER MANHOLE	4 EA
6	48" VERTICAL FEET	19 LF
9	TRIPLEX LINER	43 VF
10	6-INCH CRUSHED STONE BASECOURSE	1541 SY
11	2" HMA PAVEMENT REPLACEMENT (TXDOT TYPE C)	1541 SY
14	REMOVE & REPLACE CONCRETE SIDEWALK	667 SF
15	REMOVE & REPLACE CURB & GUTTER	99 LF
16	REMOVE AND REPLACE CONCRETE DRIVEWAY	293 SF
18	ABANDONMENT OF SANITARY SEWER MANHOLE	3 EA
19	POTHOLING IN STREET	5 EA



BENCHMARK:
ELEVATIONS AND CONTOURS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88) DETERMINED VIA THE EL PASO COUNTY VIRTUAL REFERENCE STATION (V.R.S. NETWORK). BENCHMARK (BM-1) SQUARE BOLT AT THE INTERSECTION OF DELTA DRIVE AND PECOS STREET NORTHING: 10,655,418.73 EASTING: 407,922.55 ELEVATION: 3690.25. BENCHMARK (BM-2) RAILROAD SPIKE AT THE INTERSECTION OF DELTA DRIVE AND DELAWARE STREET NORTHING: 10,655,695.48 EASTING: 406,265.13 ELEVATION: 3692.33



KEY MAP
1" = 1000'



PLAN
1" = 30'

REV.	DATE	BY	DESCRIPTION

UTILITY LOCATOR SERVICES	
TIME WARNER COMMUNICATIONS	(915) 775-7415
EL PASO ELECTRIC COMPANY	(915) 877-3400
EL PASO WATER UTILITIES	(915) 594-5500
VERIZON COMMUNICATIONS	(800) 624-9675
HOLLY ENERGY PARTNERS	(915) 494-0549
TEXAS GAS SERVICE	(800) 959-5325
KINDER MORGAN	(915) 843-2441
AT&T GENERAL	(915) 595-5151

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HECTOR MARTINEZ
132659
LICENSED PROFESSIONAL ENGINEER
02/17/2023

DESIGNED
H.M.
DRAWN
I.C., I.V.
CHECKED
S.J.A.
APPROVED
H.M.
DATE
02/17/2023

BROCK & BUSTILLOS INC.
CONSULTING CIVIL ENGINEERS
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417 EXECUTIVE CENTER
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PH (915) 542-4800
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TBE Registration Number: F-737
JOB NO. 05970-053

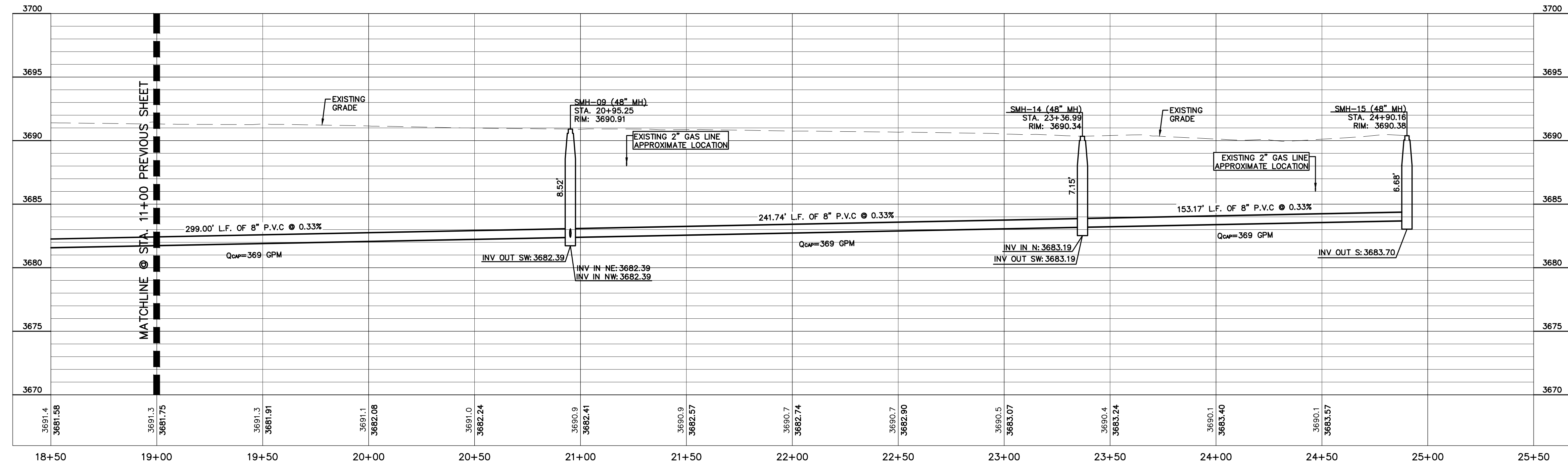
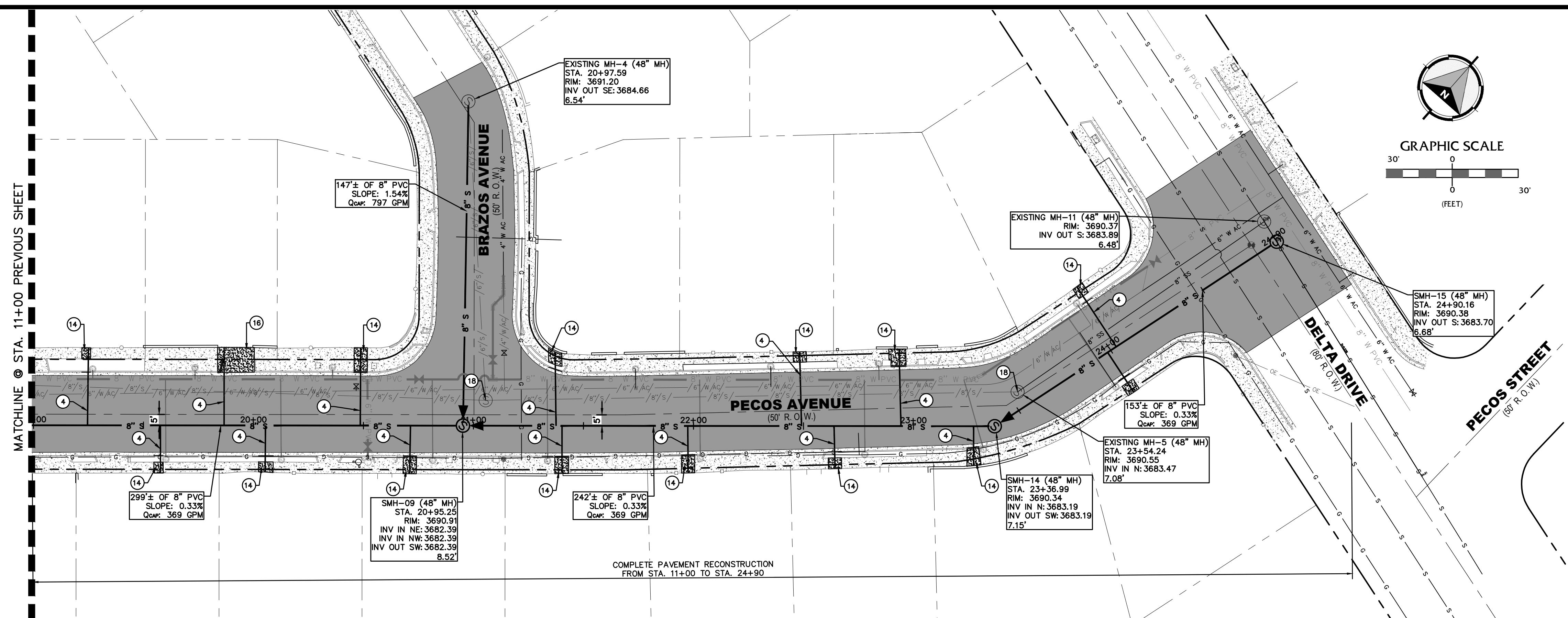
el paso WATER

PROJECT:
PECOS STREET WATER AND SEWER LINE IMPROVEMENTS
SHEET TITLE:
NECHES AVENUE TO PECOS STREET FROM STA. 12+00 TO STA. 19+00

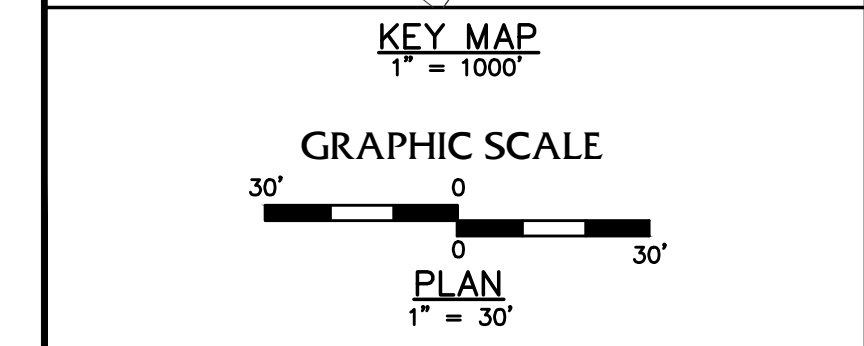
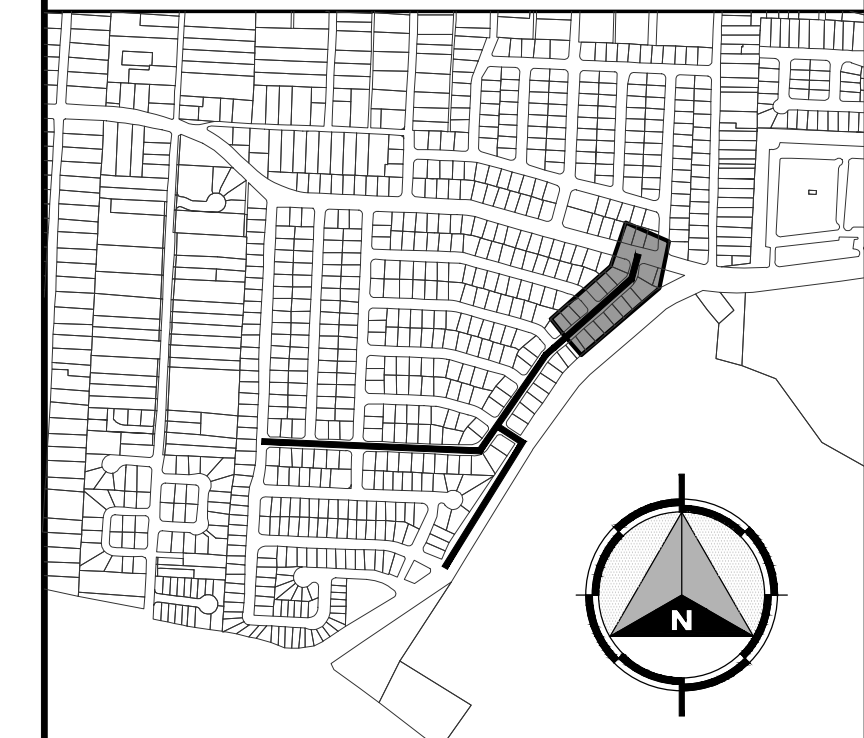
JOB NO.
05970-053
SEQUENCE NO.
C9
SHEET NO.
9 OF 19

02/16/2023
 HECTOR MARTINEZ
 S:\Projects\05970 - EL PASO WATER - FISH ENGINEERING\053 - PECOS ST. WATERLINE REPLACEMENT TO S:\DESIGN\053-011 SEWERLINE PLAN & PROFILE.dwg

NEW CONSTRUCTION SUMMARY PECOS STREET FROM STA. 19+00 TO 25+00		
NO.	ITEM	QUANTITY
2	8" PVC (SDR 35) SEWERLINE	590 LF
3	TRENCH SAFETY SYSTEM	590 LF
4	REPLACEMENT OF 4" TO 8" SEWER SERVICE	15 EA
5	48" SEWER MANHOLE	3 EA
6	48" VERTICAL FEET	6 LF
9	TRIPLEX LINER	24 VF
10	6-INCH CRUSHED STONE BASECOURSE	1317 SY
11	2" HMAC PAVEMENT REPLACEMENT (TXDOT TYPE C)	1317 SY
14	REMOVE & REPLACE CONCRETE SIDEWALK	527 SF
15	REMOVE & REPLACE CURB & GUTTER	83 LF
16	REMOVE AND REPLACE CONCRETE DRIVEWAY	185 SF
17	CONCRETE COLLAR	1 EA
18	ABANDONMENT OF SANITARY SEWER MANHOLE	2 EA
19	POTHOLING IN STREET	5 EA



BENCHMARK:
 ELEVATIONS AND CONTOURS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88) DETERMINED VIA THE EL PASO COUNTY VIRTUAL REFERENCE STATION (V.R.S. NETWORK). BENCHMARK (BM-1) SQUARE BOLT AT THE INTERSECTION OF DELTA DRIVE AND PECOS STREET NORTHING: 10,655,418.73 EASTING: 407,922.55 ELEVATION: 3690.25. BENCHMARK (BM-2) RAILROAD SPIKE AT THE INTERSECTION OF DELTA DRIVE AND DELAWARE STREET NORTHING: 10,655,695.48 EASTING: 406,265.13 ELEVATION: 3692.33



02/17/2023
 S:\Projects\05970 - EL PASO WATER - FSB ENGINEERING\053- PECOS ST. WATERLINE REPLACEMENT TO SUBDESIGN\05-C11 SEWERLINE PLAN & PROFILE.dwg

REV.	DATE	BY	DESCRIPTION

UTILITY LOCATOR SERVICES

TIME WARNER COMMUNICATIONS (915) 775-7415
 EL PASO ELECTRIC COMPANY (915) 877-3400
 EL PASO WATER UTILITIES (915) 594-5500
 VERIZON COMMUNICATIONS (800) 624-9675
 HOLLY ENERGY PARTNERS (915) 494-0549
 TEXAS GAS SERVICE (800) 959-5325
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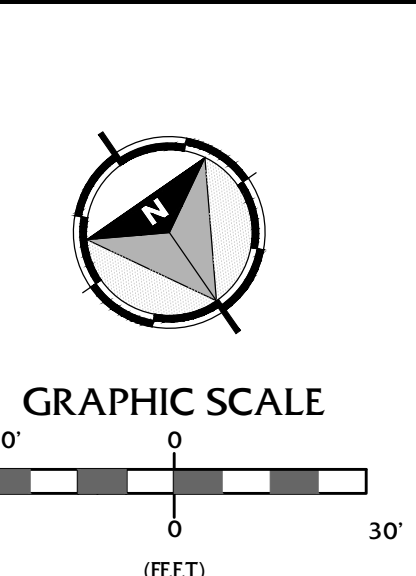
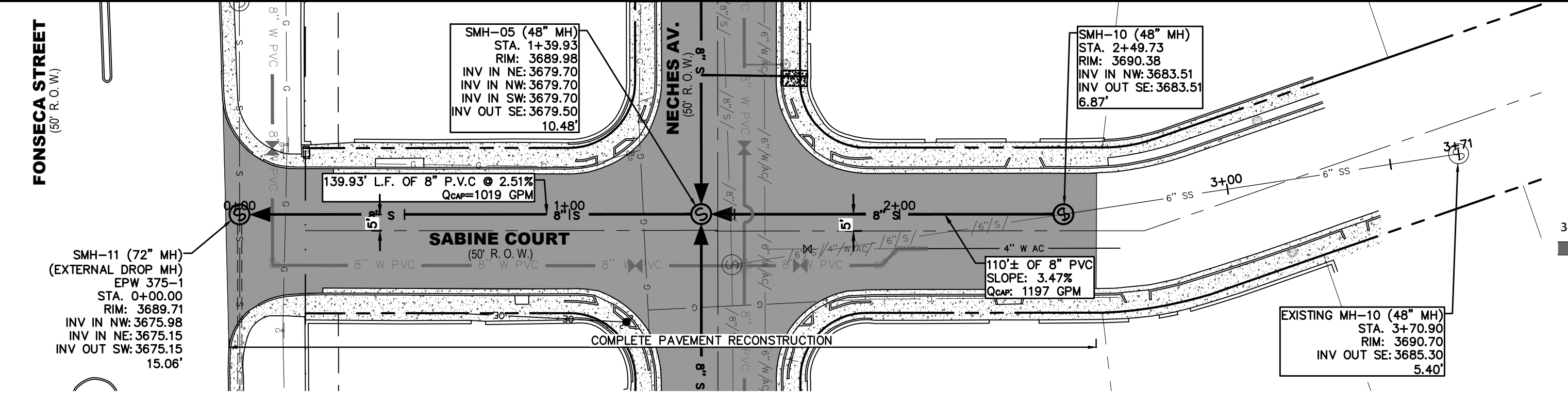
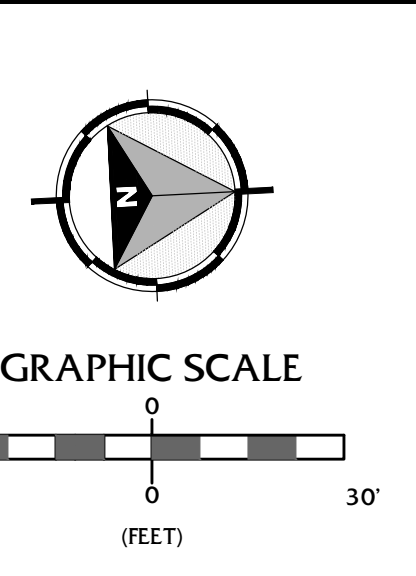
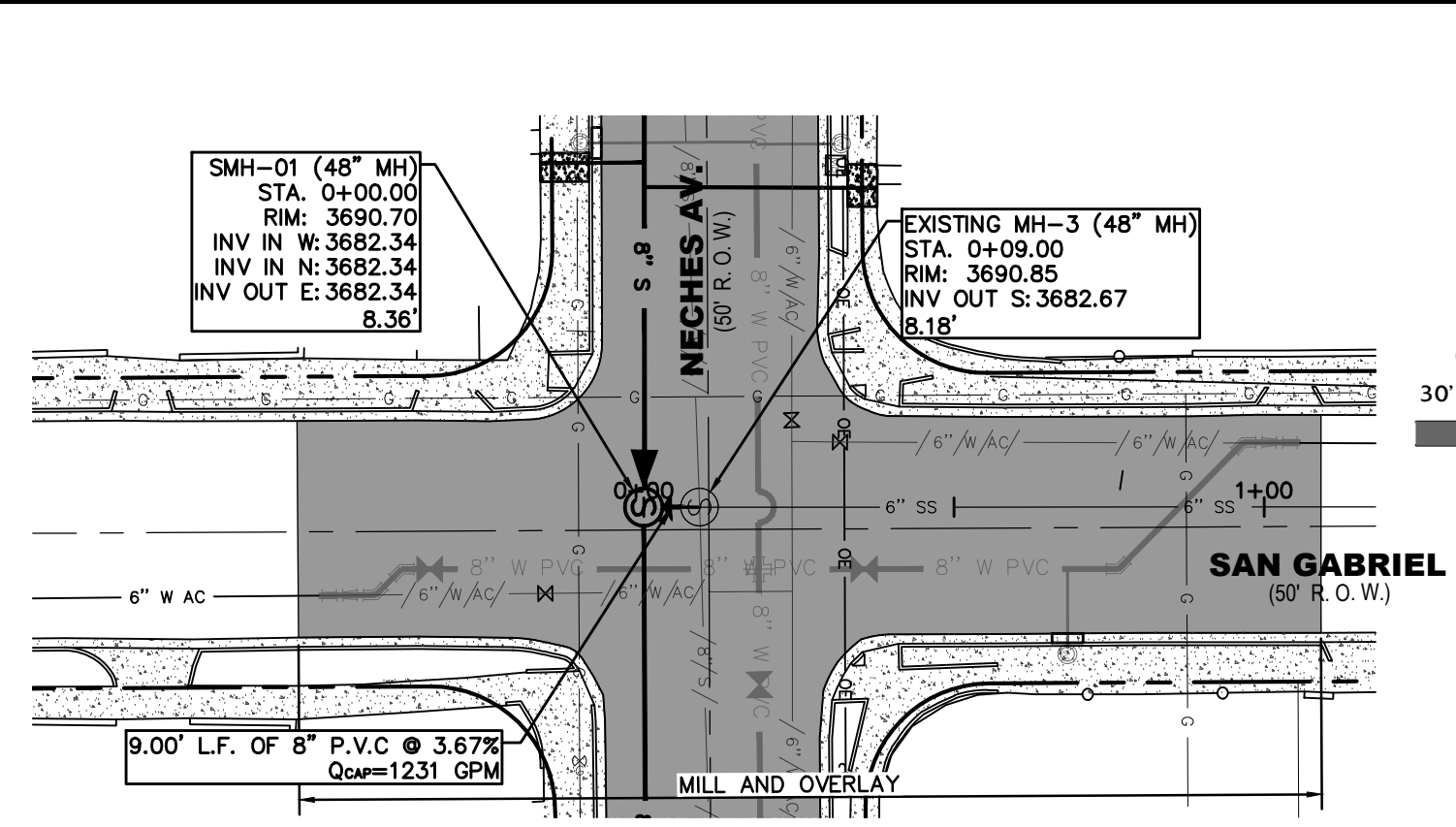
DESIGNED
 H.M. DRAWN
 I.C., I.V. CHECKED
 S.J.A. APPROVED
 H.M. DATE
 02/17/2023



PROJECT: PECOS STREET WATER AND SEWER LINE IMPROVEMENTS

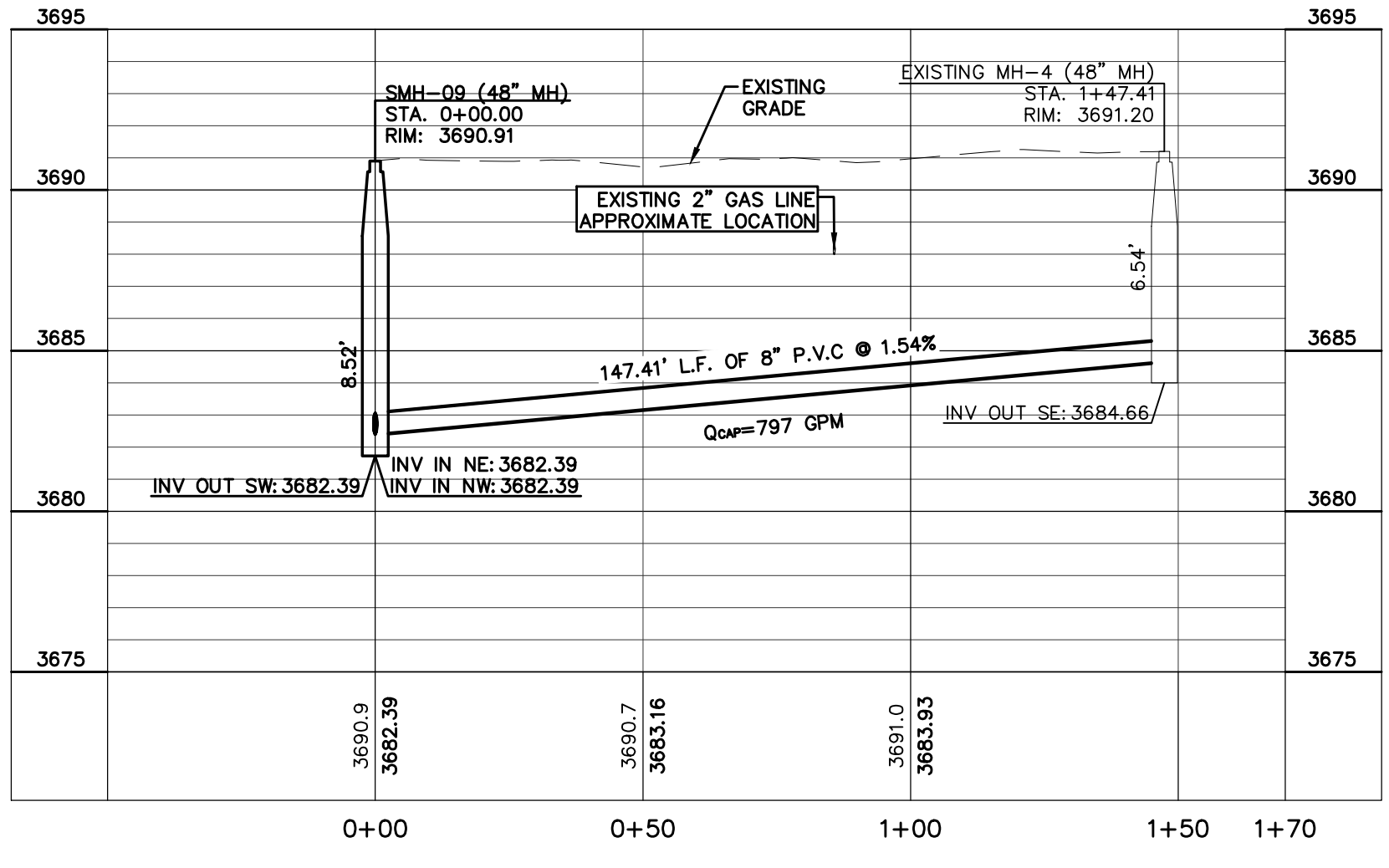
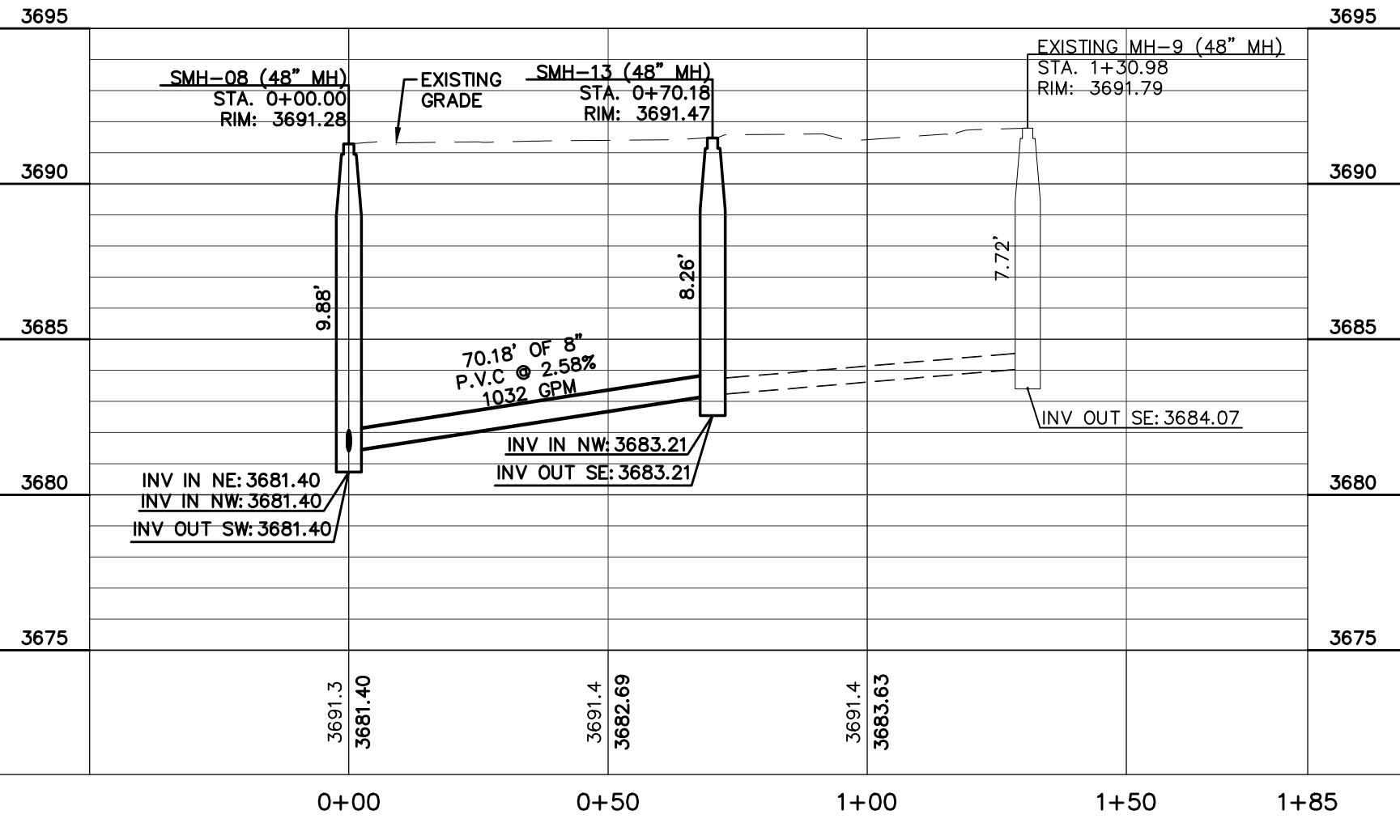
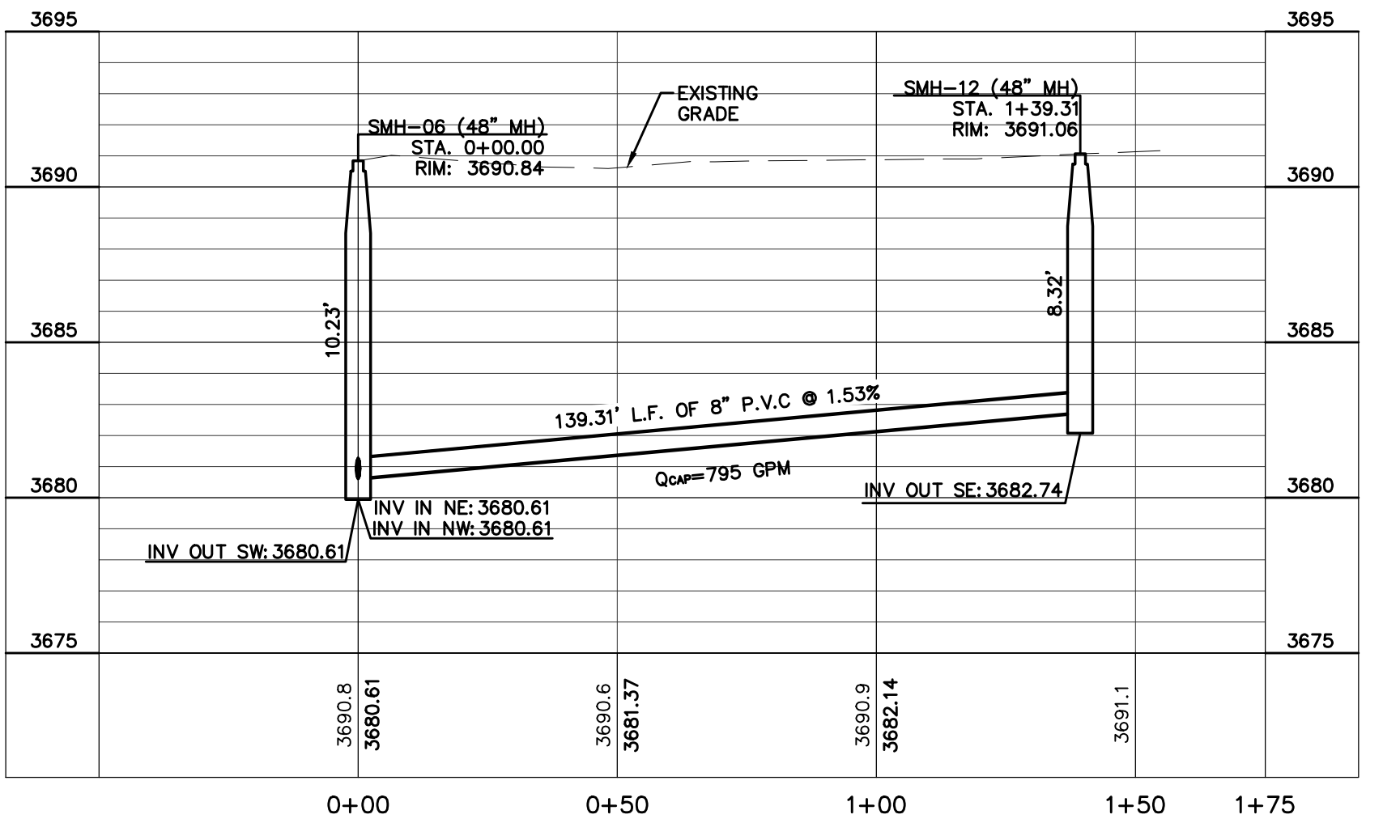
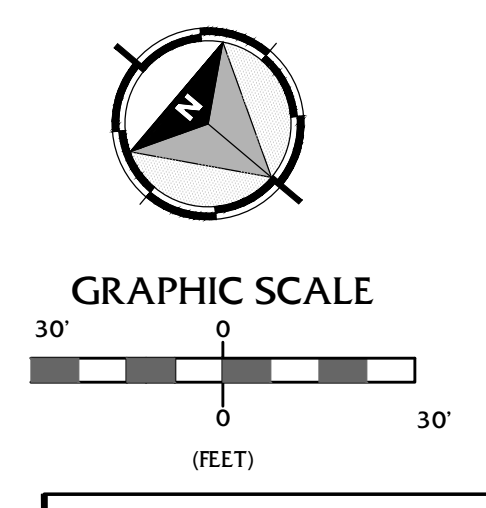
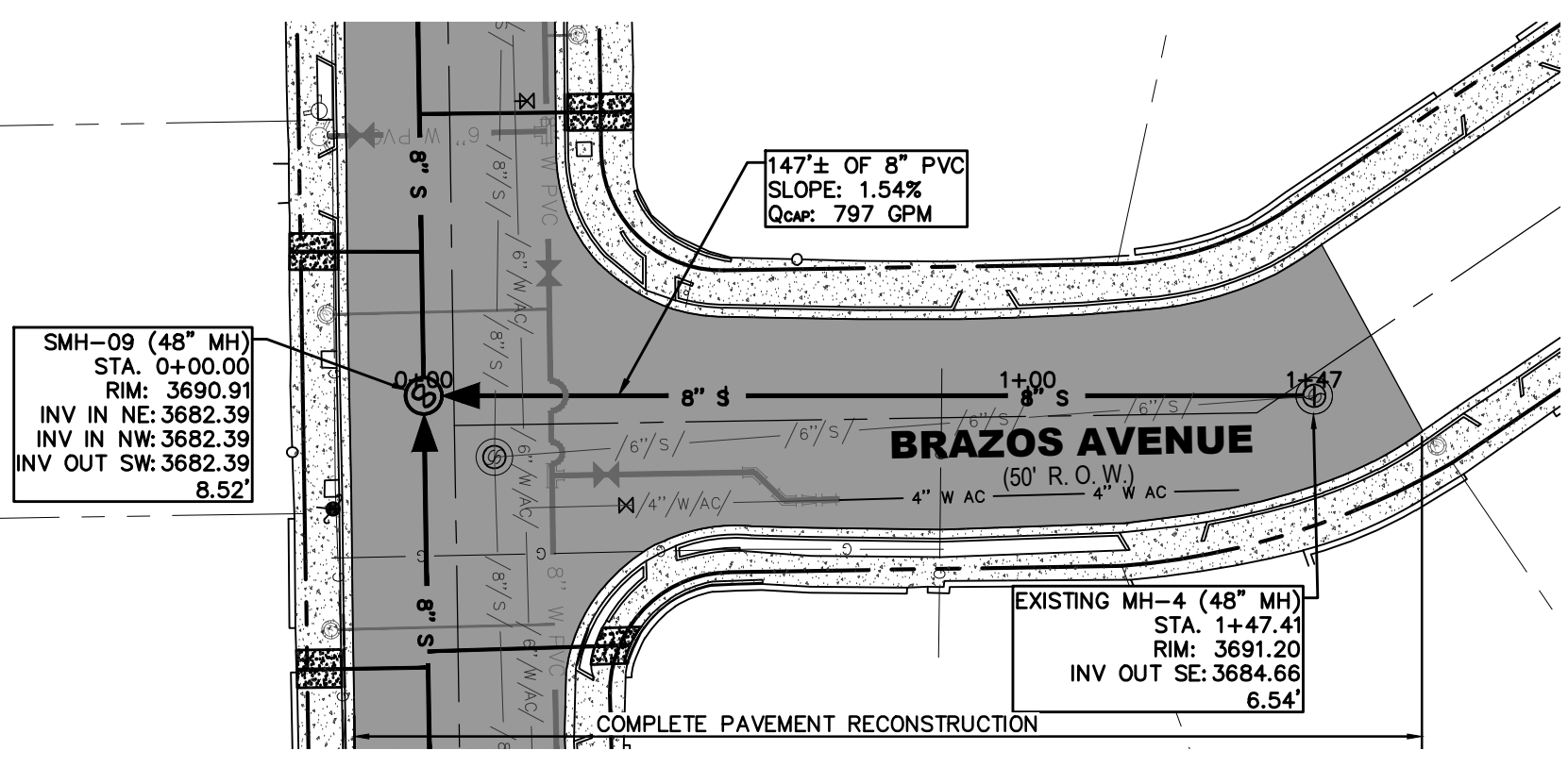
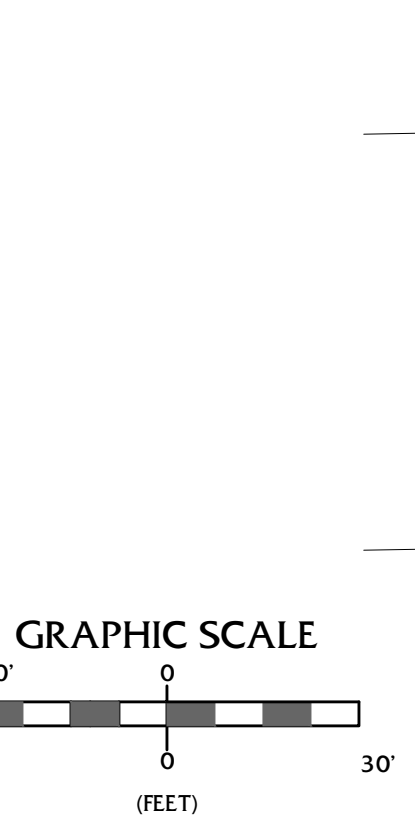
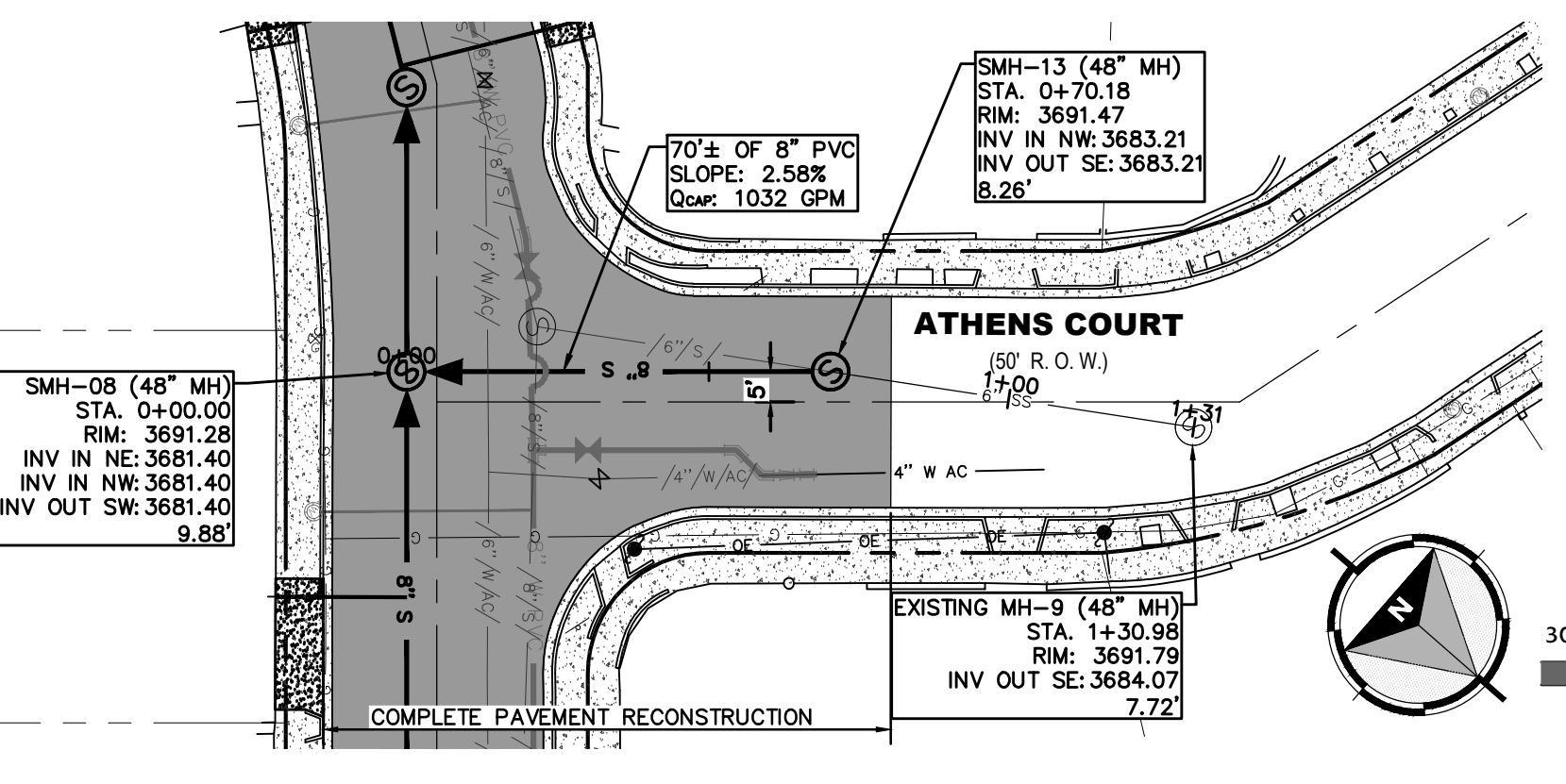
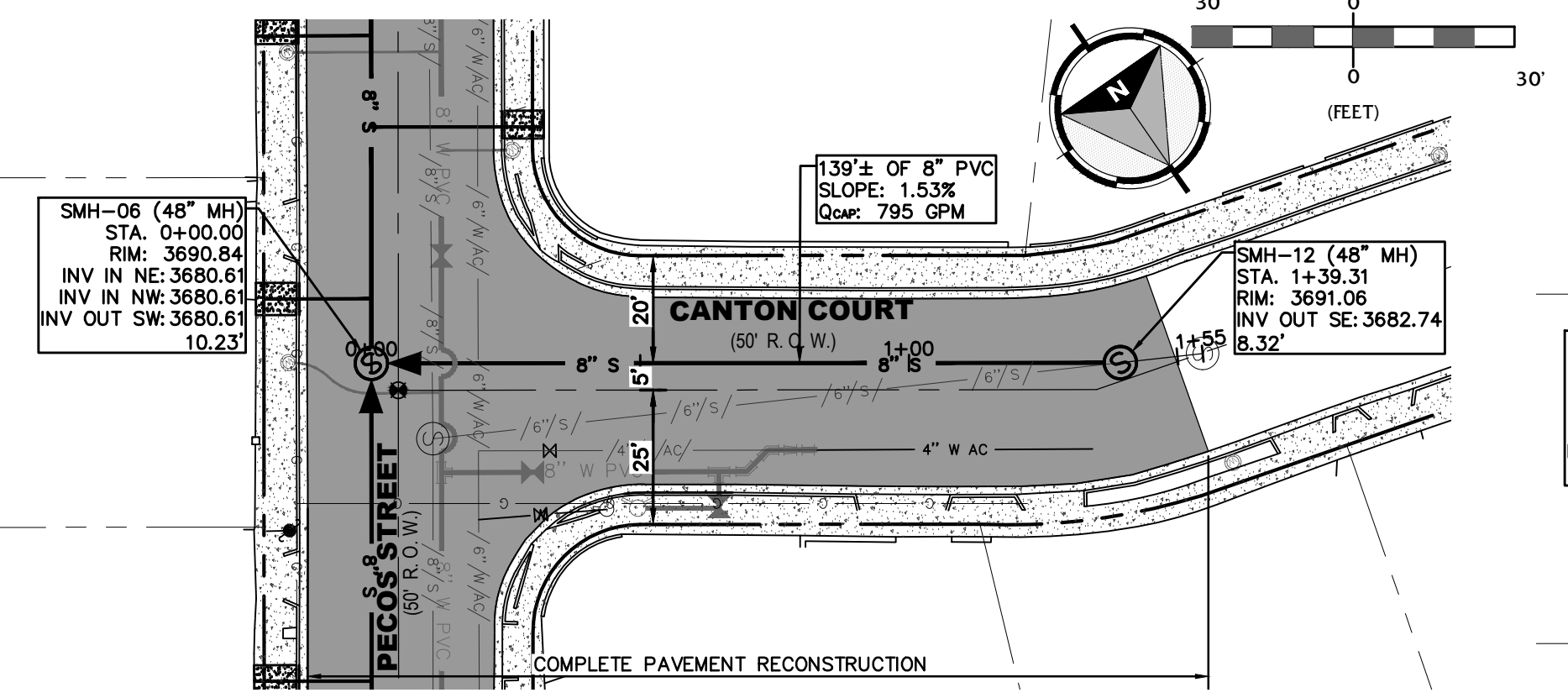
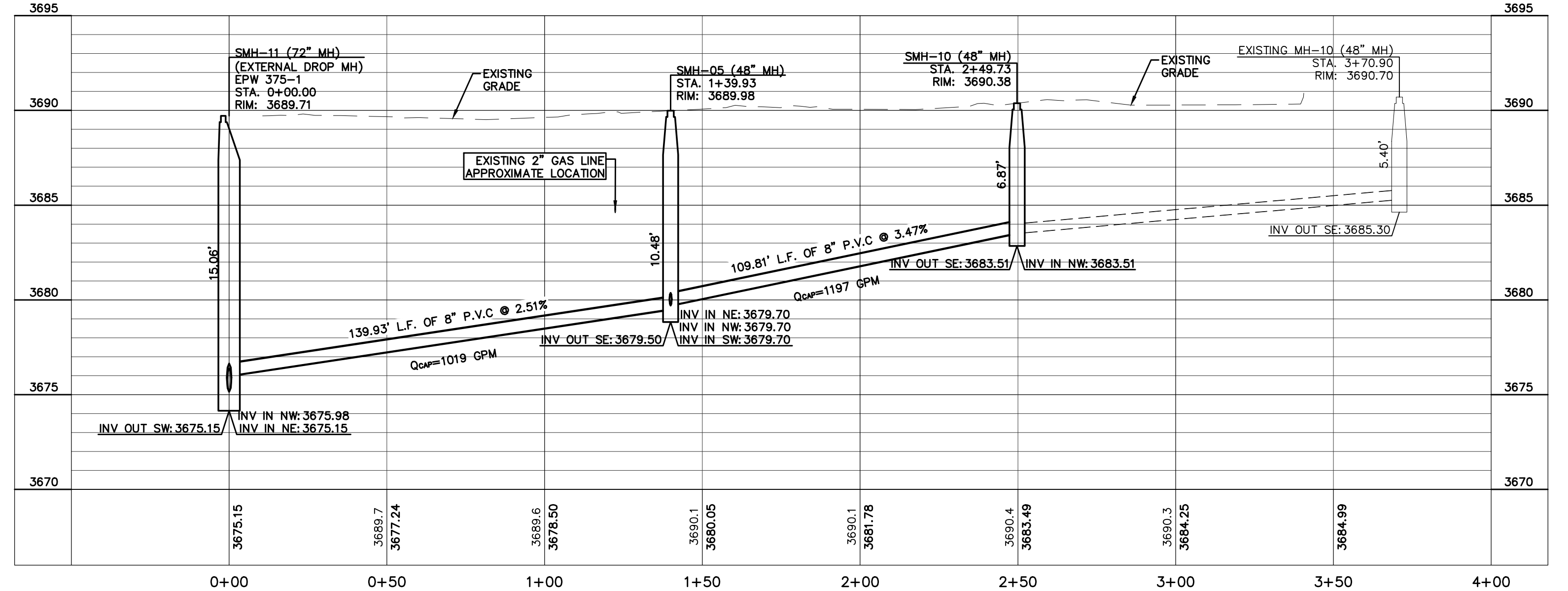
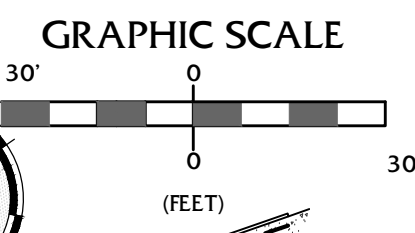
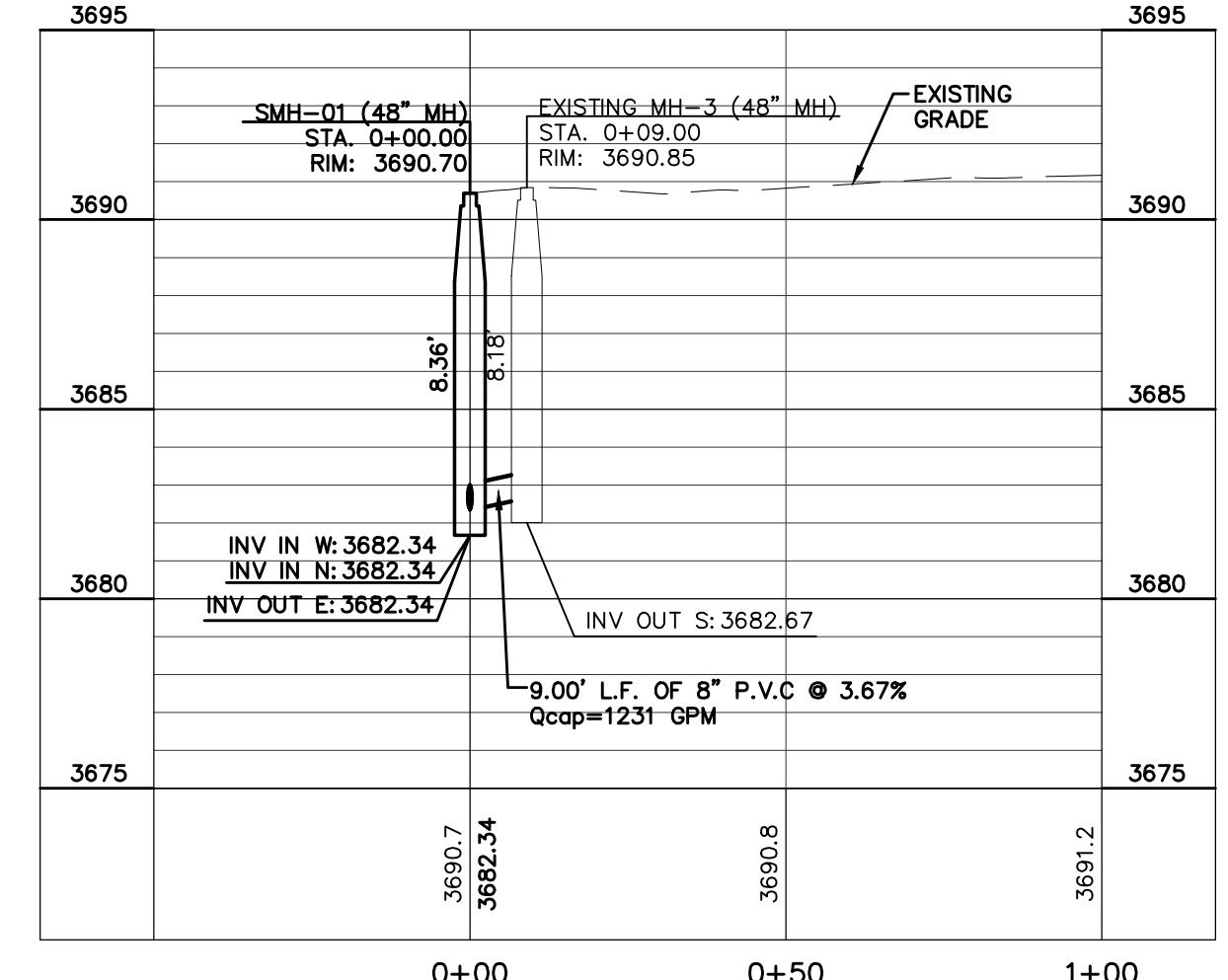
SHEET TITLE: NECHES AVENUE TO PECOS STREET FROM STA. 17+00 TO STA. 25+00

JOB NO. 05970-053
 SEQUENCE NO. C10
 SHEET NO. 10 OF 19

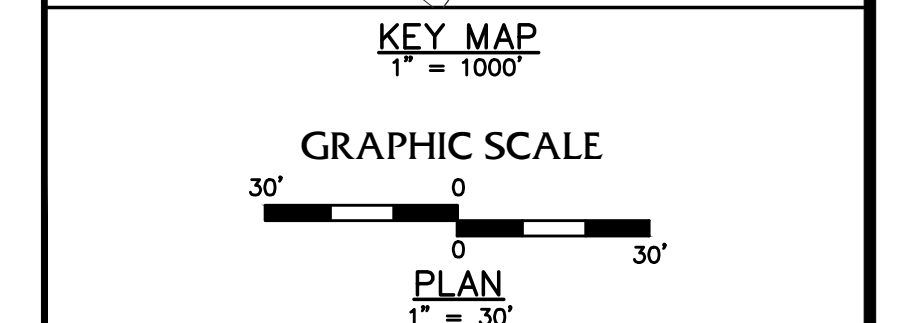
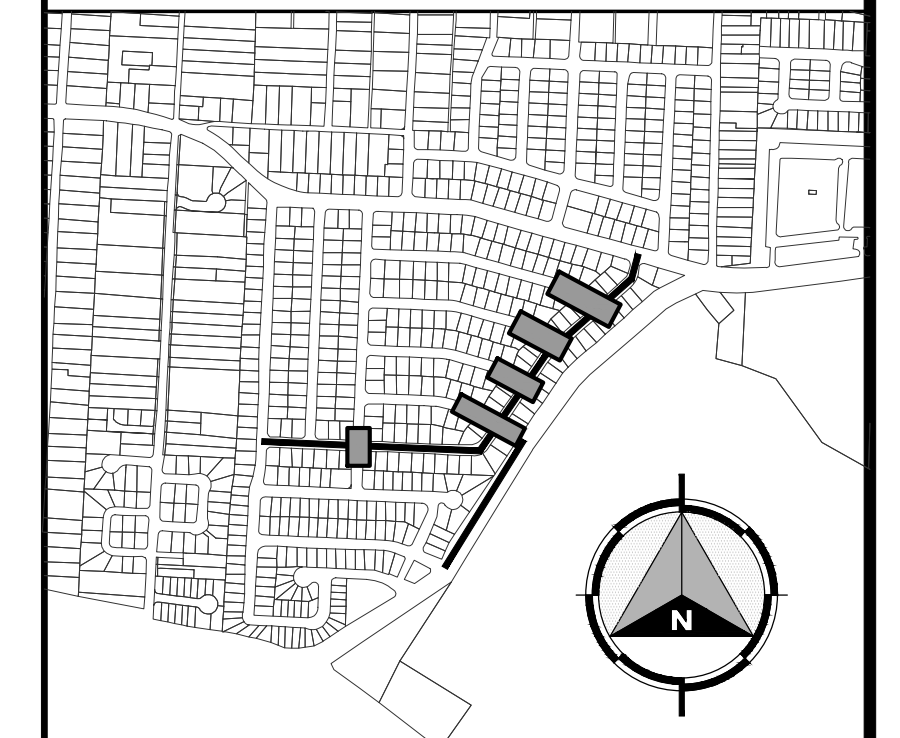


NEW CONSTRUCTION SUMMARY

NO.	ITEM	QUANTITY
2	8" PVC (SDR 35) SEWERLINE	593 LF
3	TRENCH SAFETY SYSTEM	593 LF
5	48" SEWER MANHOLE	3 EA
6	48" VERTICAL FEET	7 LF
7	72" SEWER MANHOLE	1 EA
8	72" VERTICAL FEET	10 LF
9	TRIPLEX LINER	41 VF



BENCHMARK:
 ELEVATIONS AND CONTOURS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88) DETERMINED VIA THE EL PASO COUNTY VIRTUAL REFERENCE STATION (V.R.S. NETWORK). BENCHMARK (BM-1) SQUARE BOLT AT THE INTERSECTION OF DELTA DRIVE AND PECOS STREET NORTHING: 10,655,418.73 EASTING: 407,922.55 ELEVATION: 3690.25. BENCHMARK (BM-2) RAILROAD SPIKE AT THE INTERSECTION OF DELTA DRIVE AND DELAWARE STREET NORTHING: 10,655,695.48 EASTING: 406,265.13 ELEVATION: 3692.33



REV.	DATE	BY	DESCRIPTION

UTILITY LOCATOR SERVICES

TIME WARNER COMMUNICATIONS	(915) 775-7415
EL PASO ELECTRIC COMPANY	(915) 877-3400
EL PASO WATER UTILITIES	(915) 594-5500
VERIZON COMMUNICATIONS	(800) 624-9675
HOLLY ENERGY PARTNERS	(915) 494-0549
TEXAS GAS SERVICE	(800) 959-5325
KINDER MORGAN	(915) 843-2441
AT&T GENERAL	(915) 595-5151



DESIGNED
H.M.
DRAWN
I.C., I.V.
CHECKED
S.J.A.
APPROVED
H.M.
DATE
02/17/2023

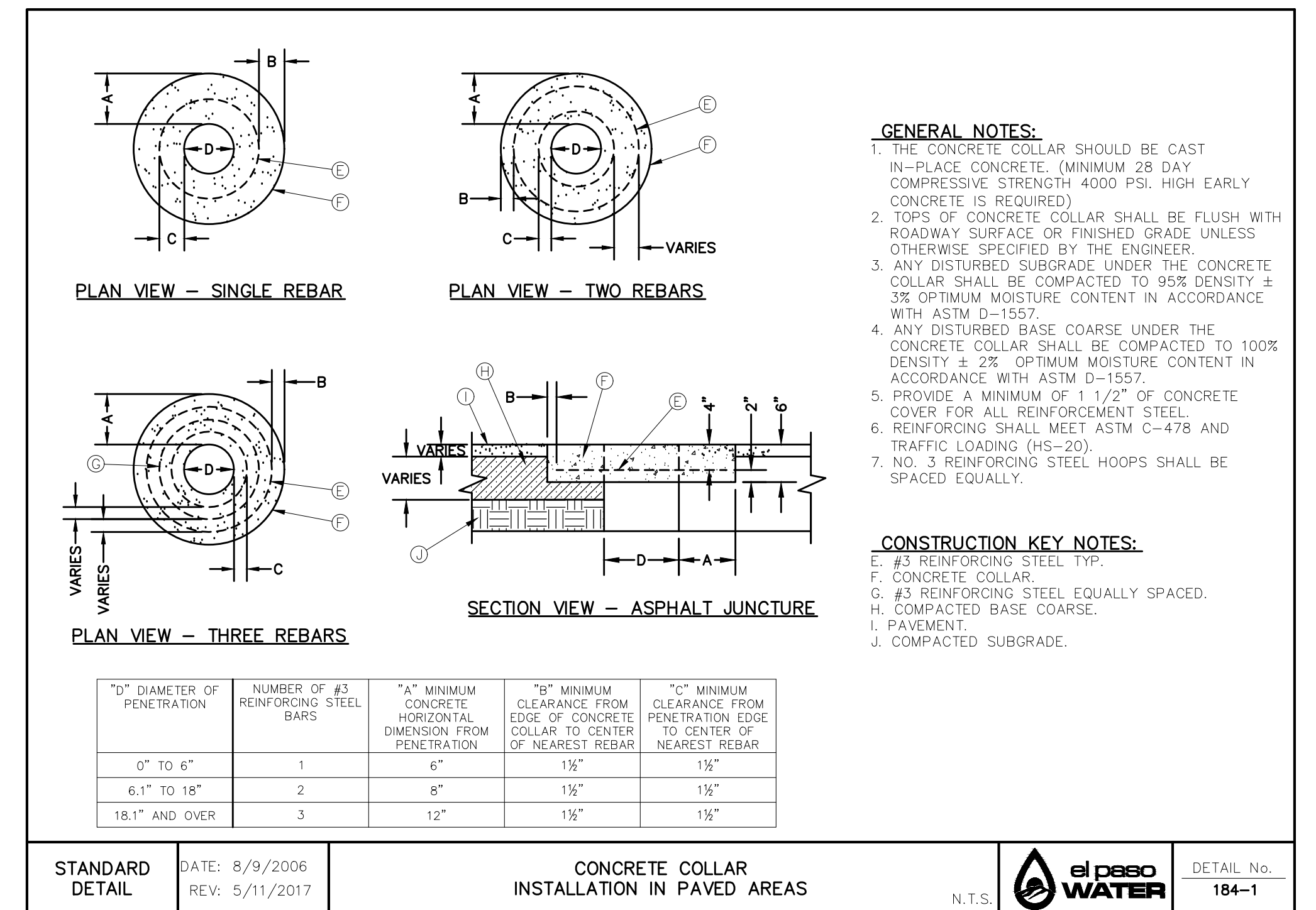
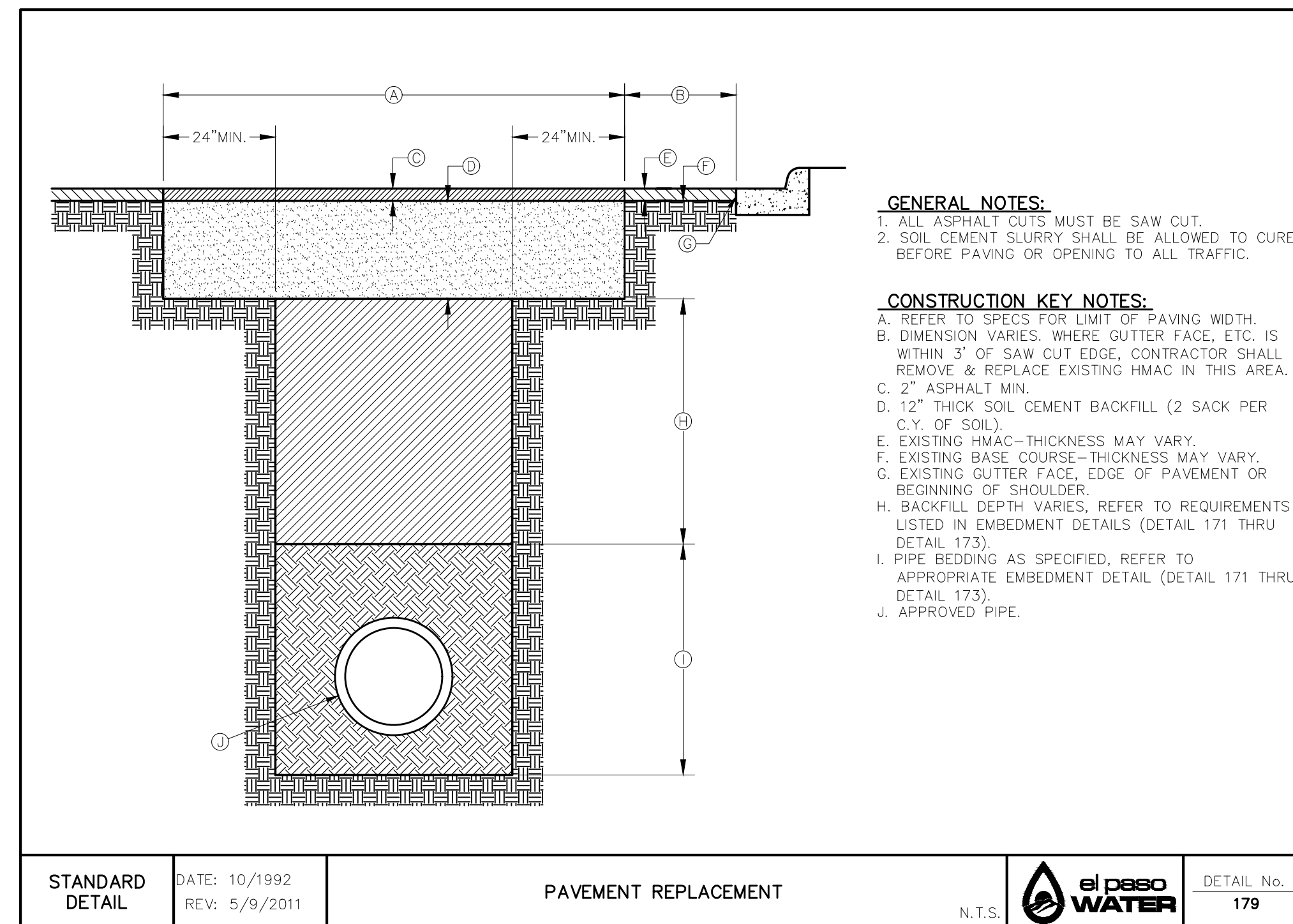
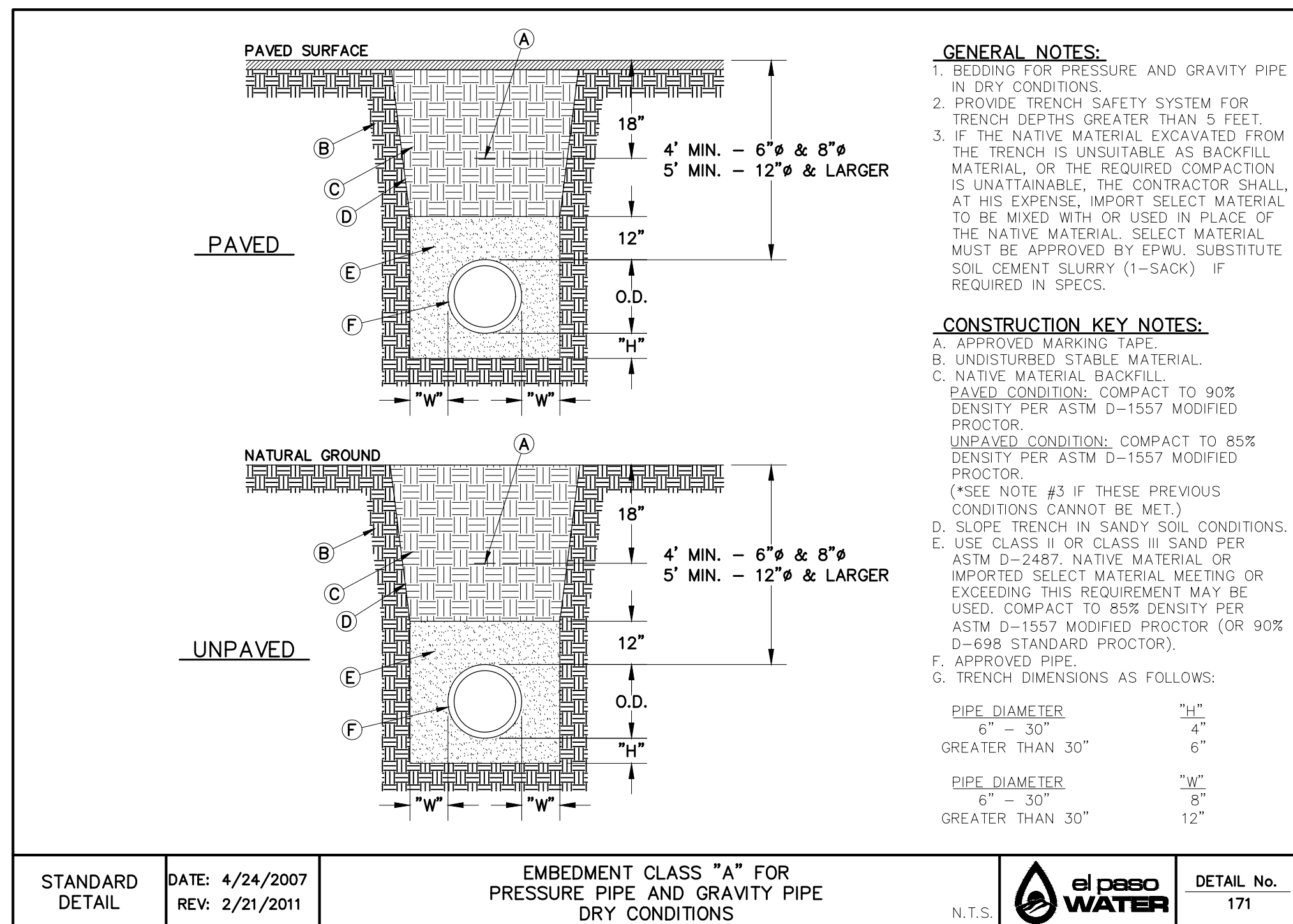
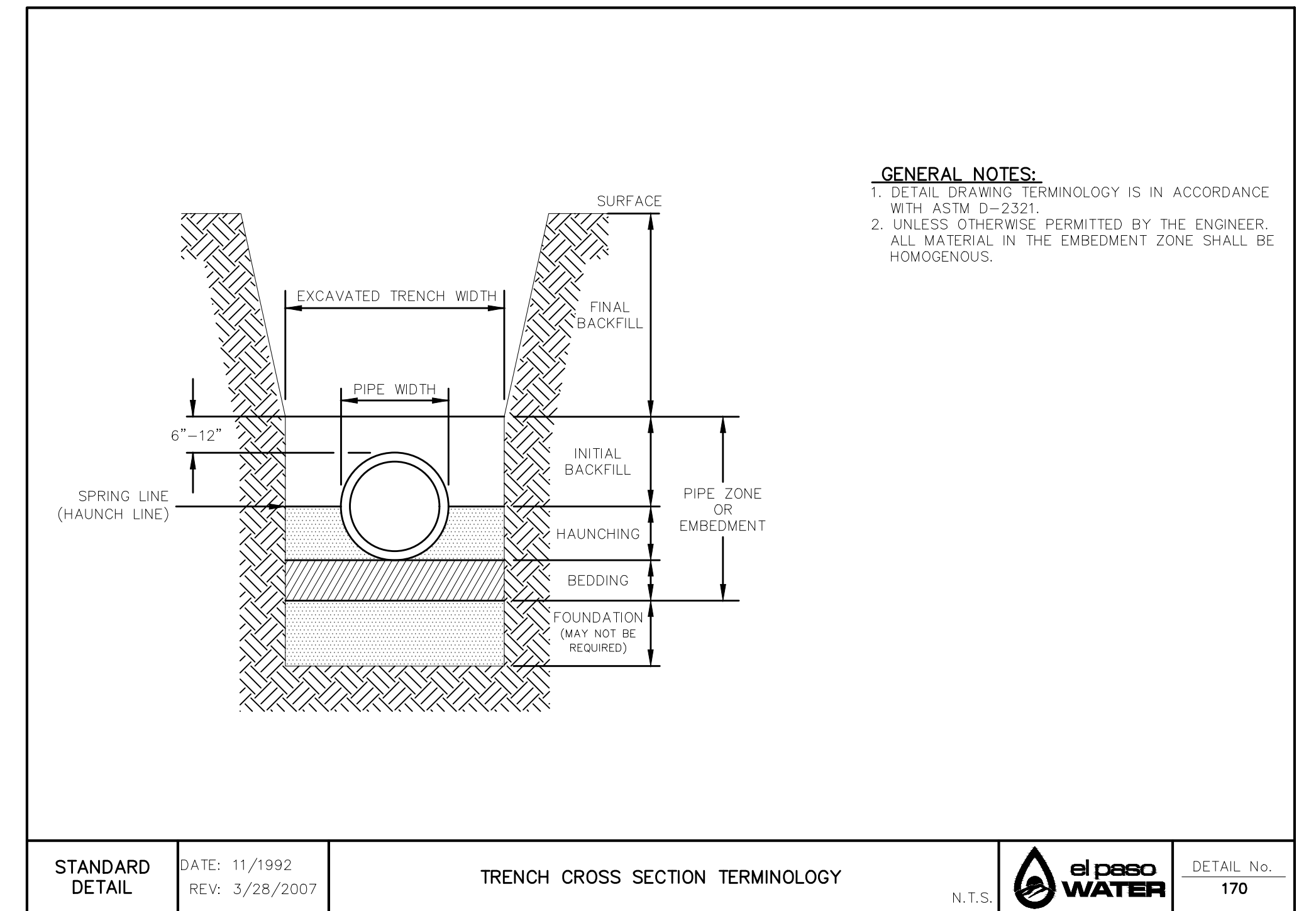
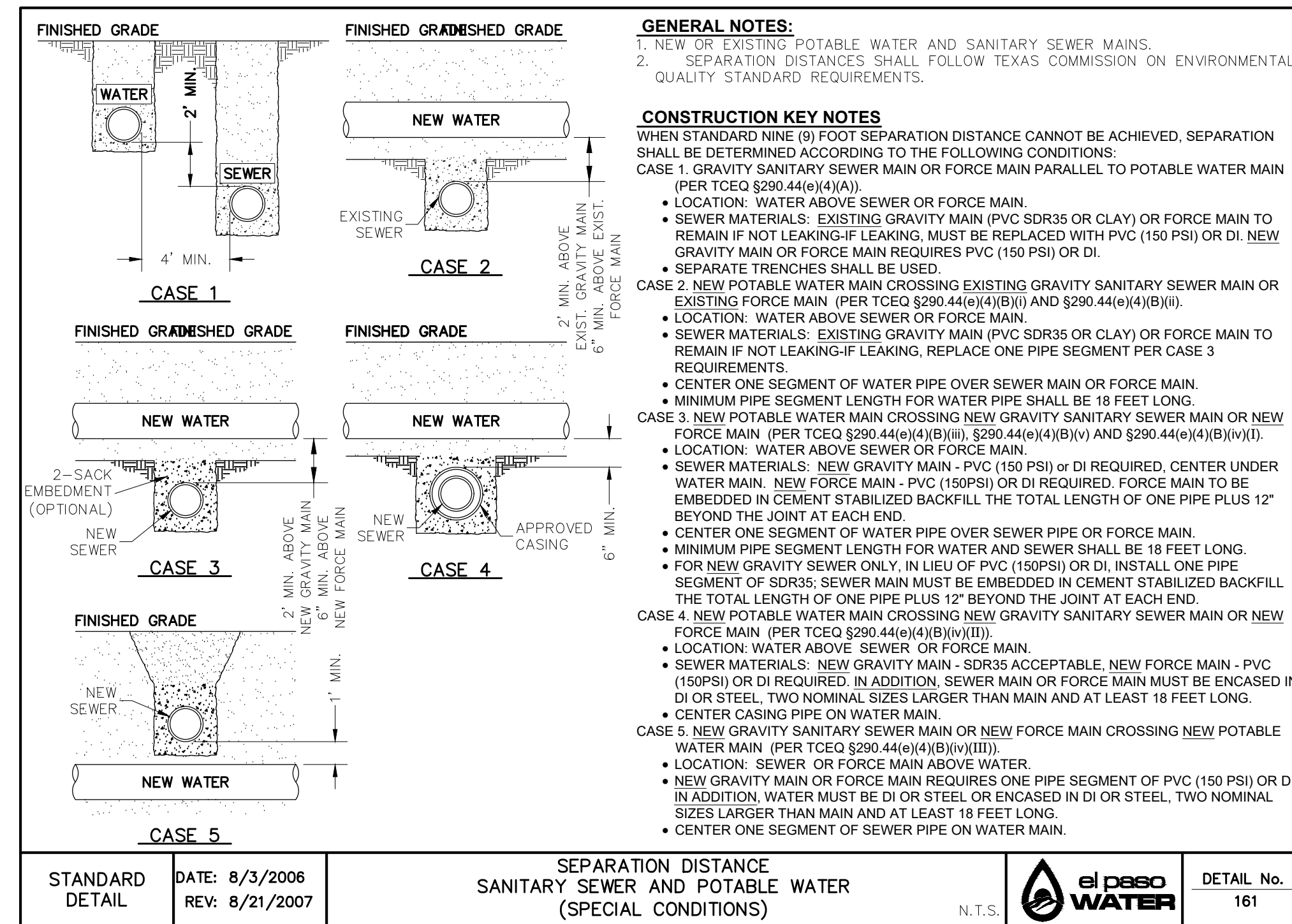
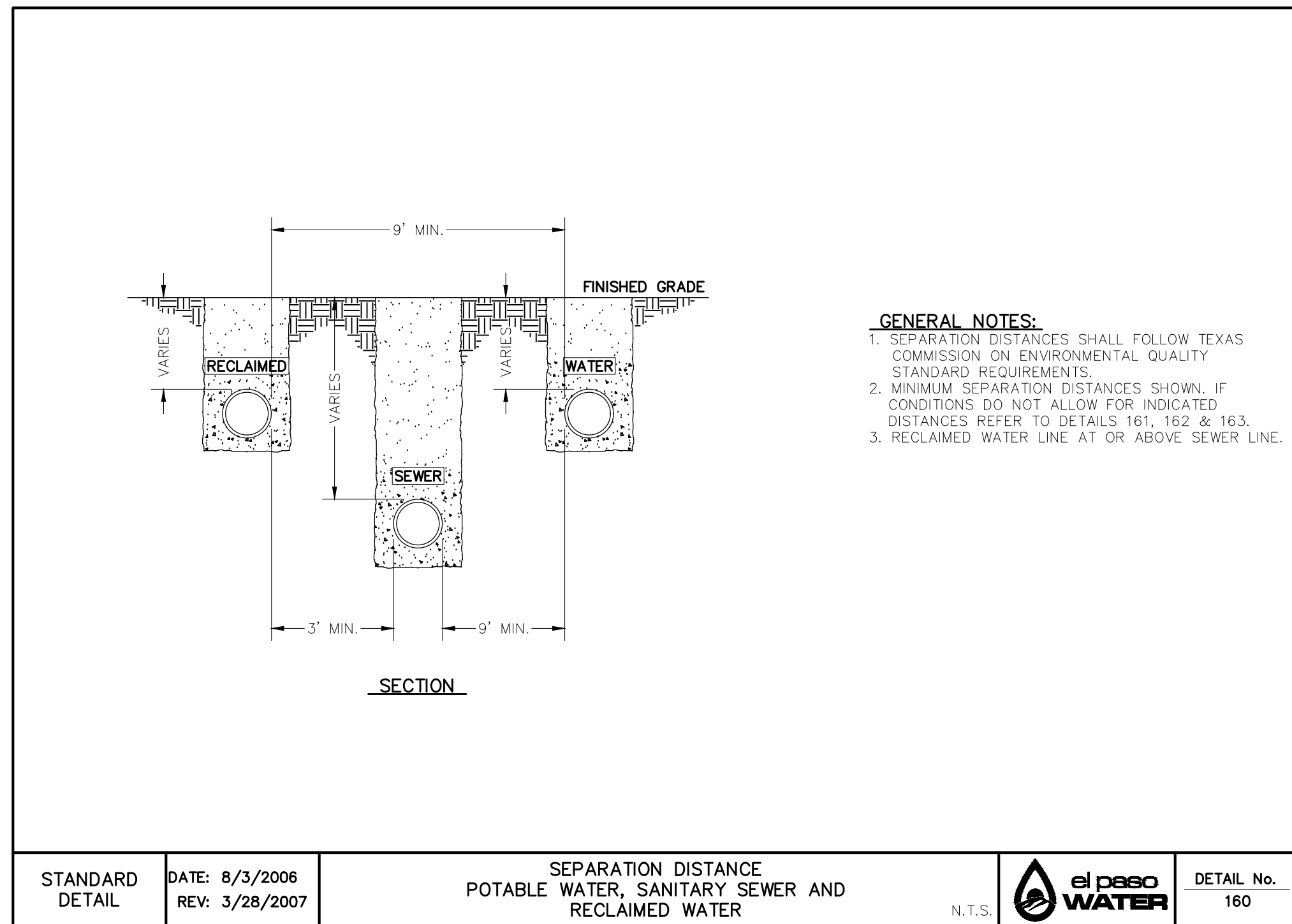


PROJECT: PECOS STREET WATER AND SEWER LINE IMPROVEMENTS

SHEET TITLE: SAN GABRIEL STA. 0+00 - 0+10, SABINE STA. 0+00-3+70, CANTON STA. 0+00-1+50, ATHENS STA. 0+00-1+30, AND BRAZOS STA. 0+00-1+50

JOB NO. 05970-053
 SEQUENCE NO. C11
 SHEET NO. 11 OF 19

02/17/2023
 HECTOR MARTINEZ
 S:\Projects\05970 - EL PASO WATER - FISH ENGINEERING\053 - PECOS ST. WATERLINE REPLACEMENT TO 5' DESIGN\053-C11 SEWERLINE PLAN & PROFILE.dwg



02/16/2023
 HECTOR MARTINEZ
 S:\Projects\05970 - EL PASO WATER - FISH ENGINEERING\053 - PECOS ST. WATERLINE REPLACEMENT TO SUBSECTION C-17 DETAILS.dwg

REV.	DATE	BY	DESCRIPTION

UTILITY LOCATOR SERVICES	
TIME WARNER COMMUNICATIONS	(915) 775-7415
EL PASO ELECTRIC COMPANY	(915) 877-3400
EL PASO WATER UTILITIES	(915) 594-5500
VERIZON COMMUNICATIONS	(800) 624-9675
HOLLY ENERGY PARTNERS	(915) 494-0549
TEXAS GAS SERVICE	(800) 959-5325
KINDER MORGAN	(915) 843-2441
AT&T GENERAL	(915) 595-5151

STOP!
CALL BEFORE YOU DIG

FOR FIELD LOCATING EXISTING UTILITIES

DESIGNED
H.M.
DRAWN
I.C., I.V.
CHECKED
S.J.A.
APPROVED
H.M.
DATE
02/17/2023

417 EXECUTIVE CENTER
 EL PASO, TEXAS 79902
 WWW.BROCK&BUSTILLOS.COM
 JOB NO. 05970-053

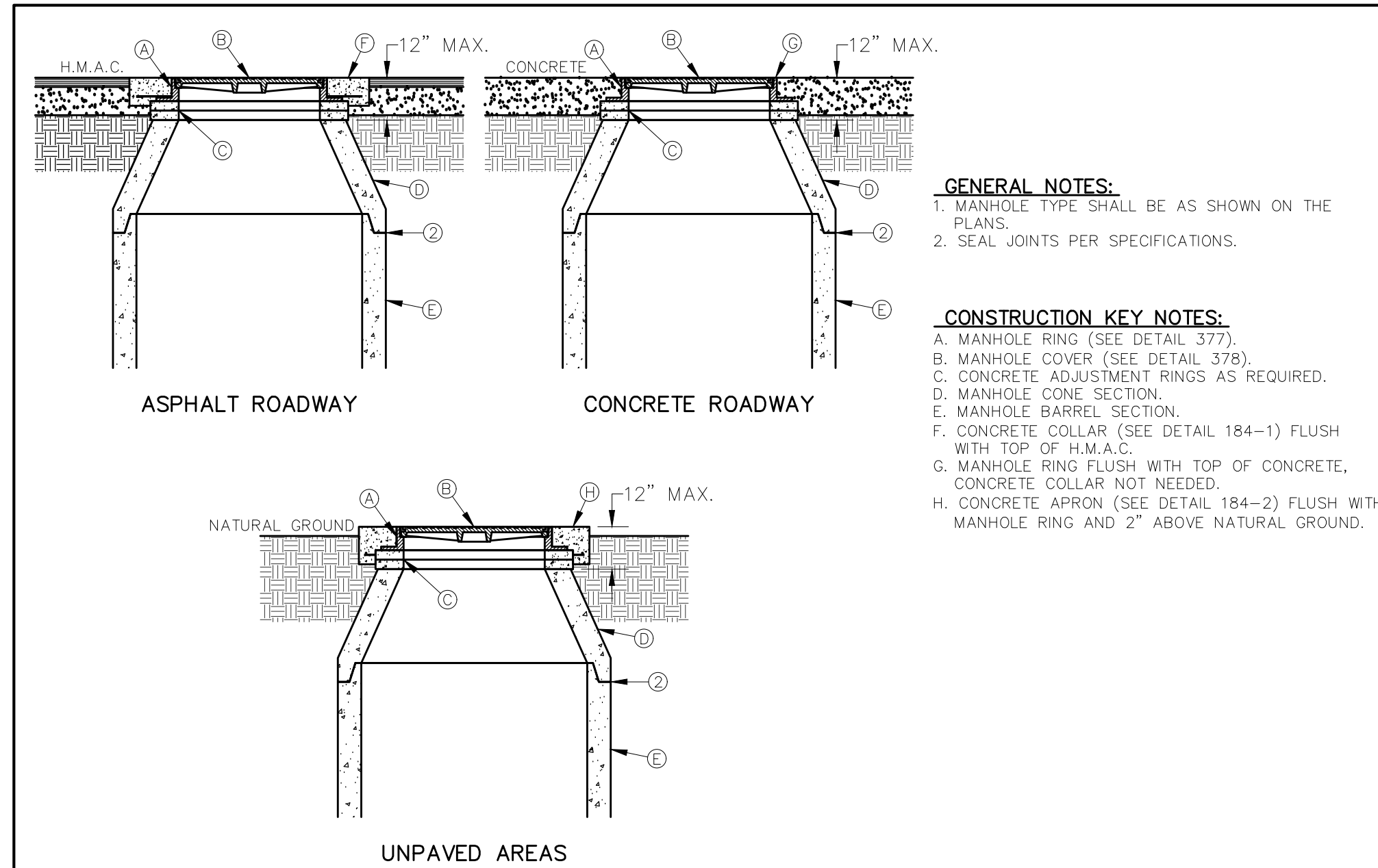
PROJECT:
PECOS STREET WATER AND SEWER LINE IMPROVEMENTS

SHEET TITLE:
TYPICAL DETAILS

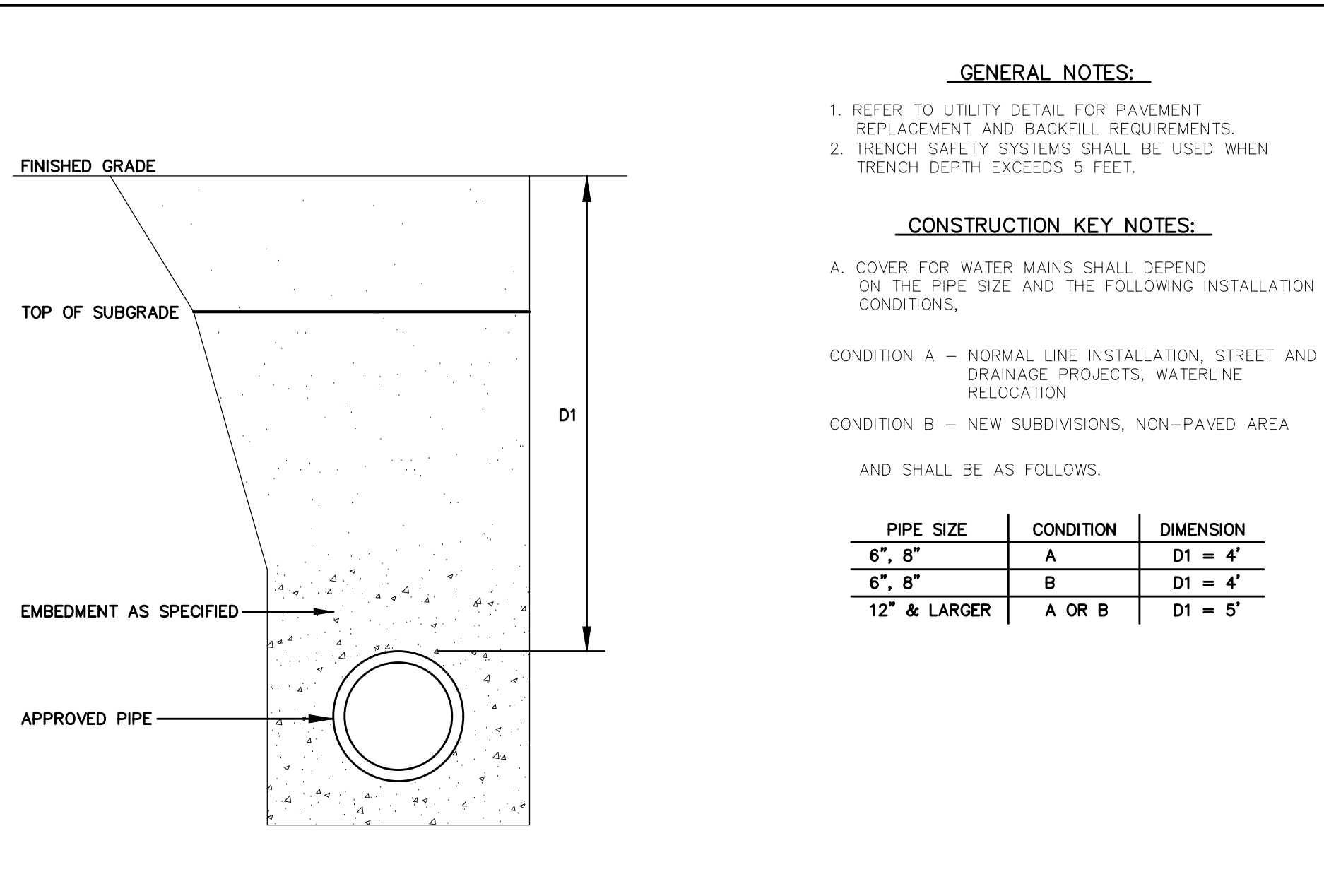
JOB NO.
05970-053

SEQUENCE NO.
C12

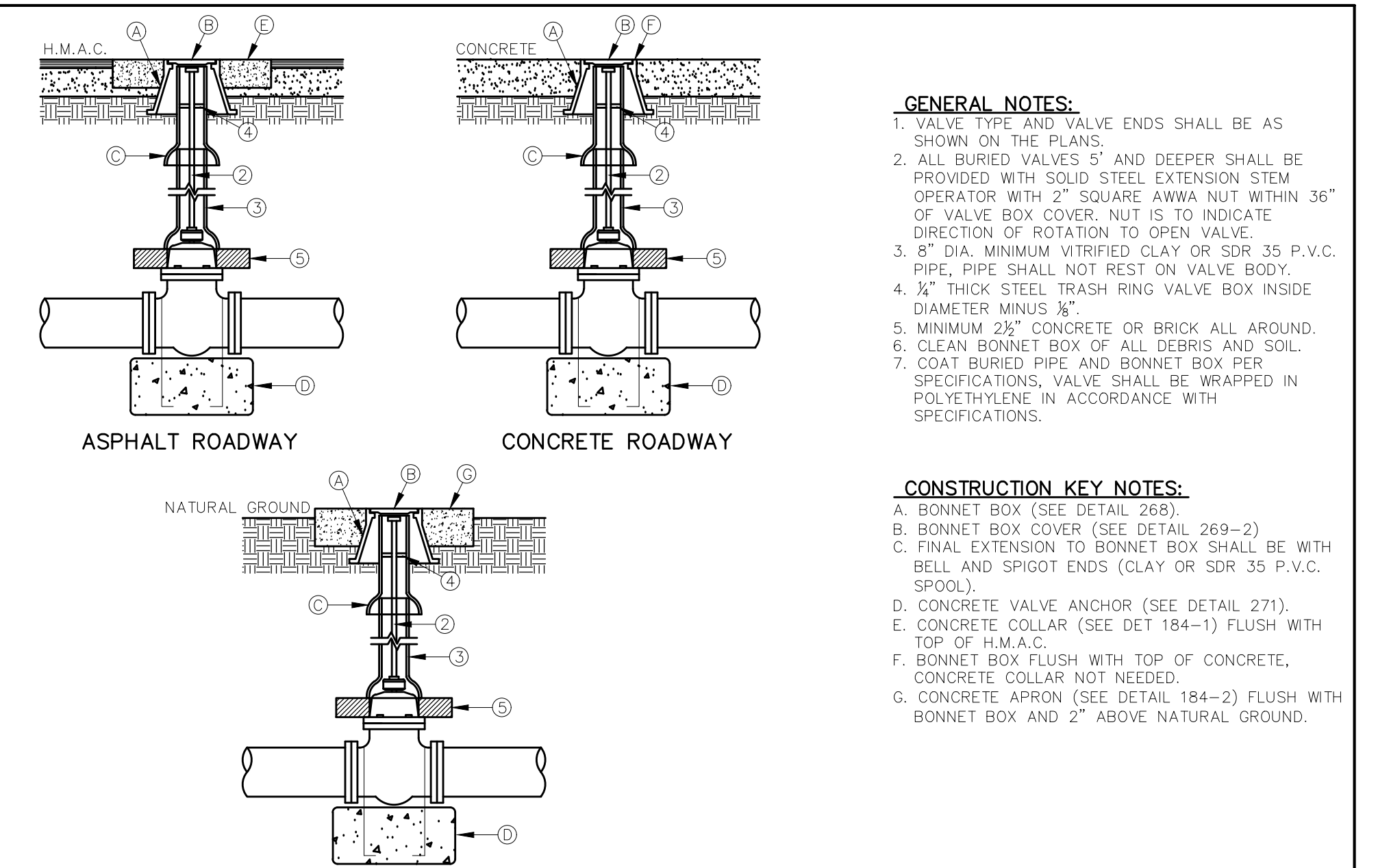
SHEET NO.
12 OF 19



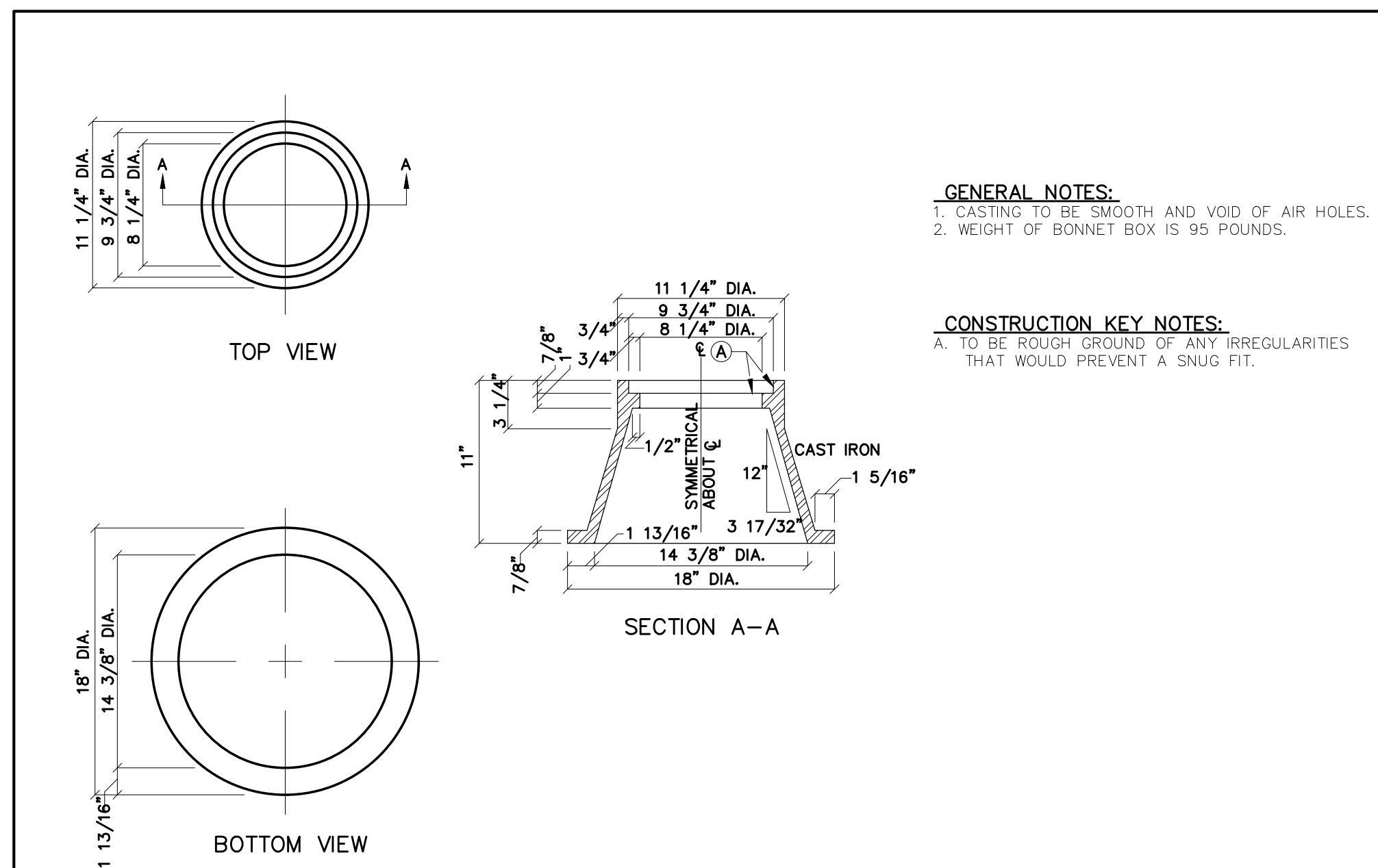
STANDARD DATE: 6/22/2009
 DETAIL No. 185
 MANHOLE RING AND COVER INSTALLATION
 el paso WATER



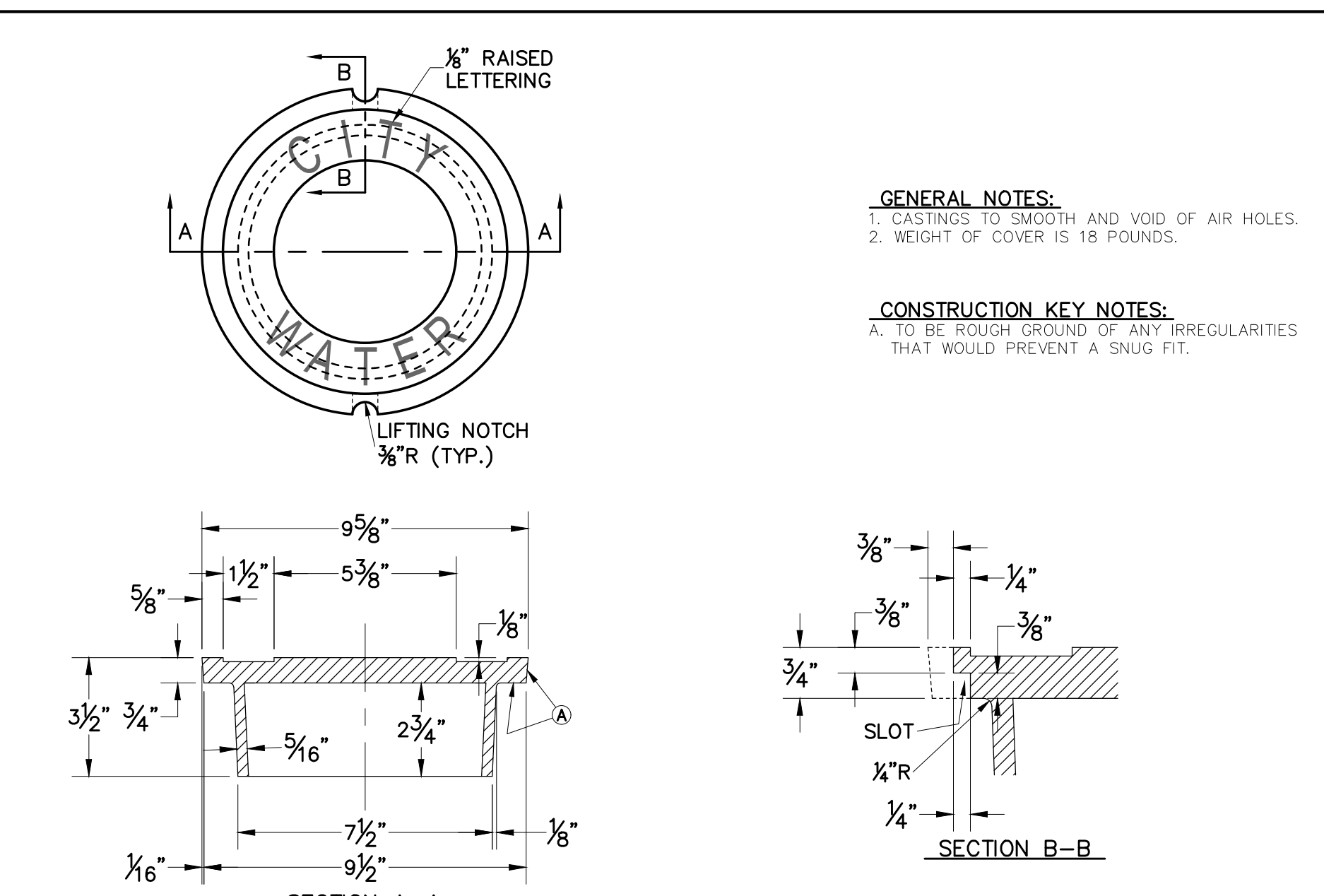
STANDARD DATE: FEB. 1994
 DETAIL No. 250
 COVER FOR WATER MAINS
 el paso WATER



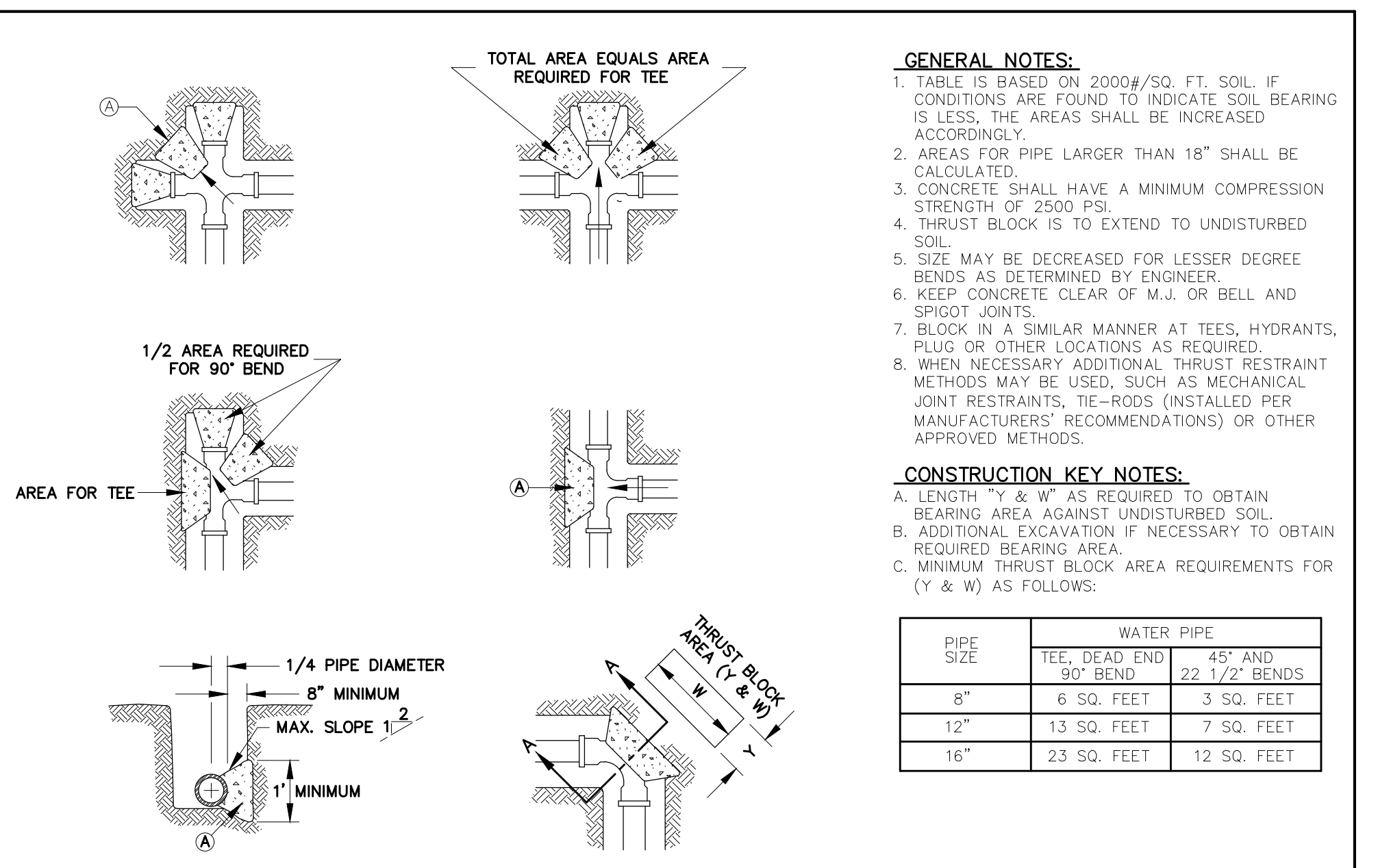
STANDARD DATE: 5/1994
 DETAIL No. 260
 GATE VALVE INSTALLATION
 el paso WATER



STANDARD DATE: 2/1994
 DETAIL No. 268
 BONNET BOX
 el paso WATER



STANDARD DATE: 2/16/2006
 DETAIL No. 269-2
 BONNET BOX COVER (FLIP RESISTANT)
 el paso WATER



STANDARD DATE: 2/1994
 DETAIL No. 270
 CONCRETE THRUST BLOCKING
 el paso WATER

REV.	DATE	BY	DESCRIPTION

UTILITY LOCATOR SERVICES	
TIME WARNER COMMUNICATIONS	(915) 775-7415
EL PASO ELECTRIC COMPANY	(915) 877-3400
EL PASO WATER UTILITIES	(915) 594-5500
VERIZON COMMUNICATIONS	(800) 624-9675
HOLLY ENERGY PARTNERS	(915) 494-0549
TEXAS GAS SERVICE	(800) 959-5325
KINDER MORGAN	(915) 843-2441
AT&T GENERAL	(915) 595-5151

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 Texas 811
 FOR FIELD LOCATING EXISTING UTILITIES

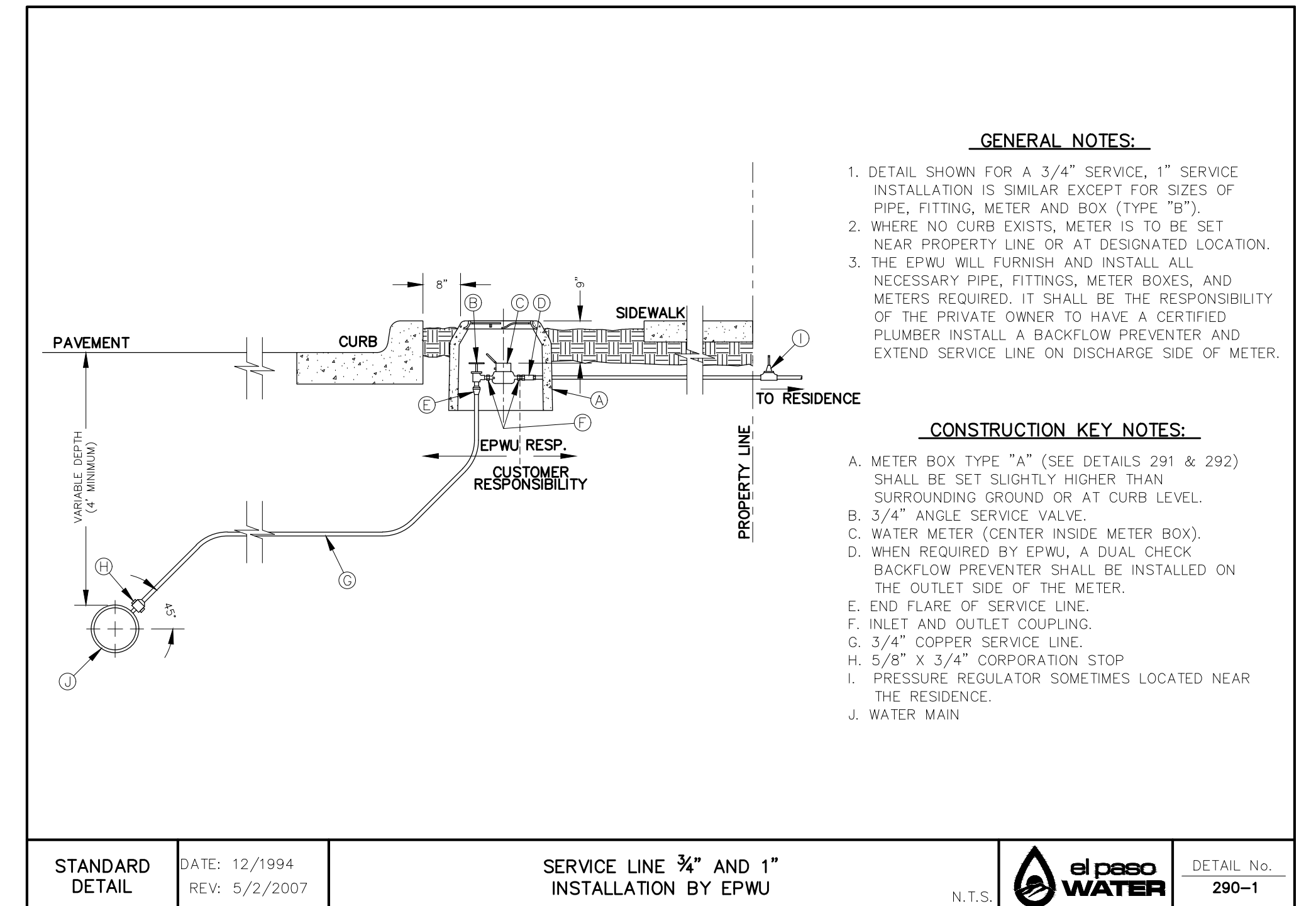
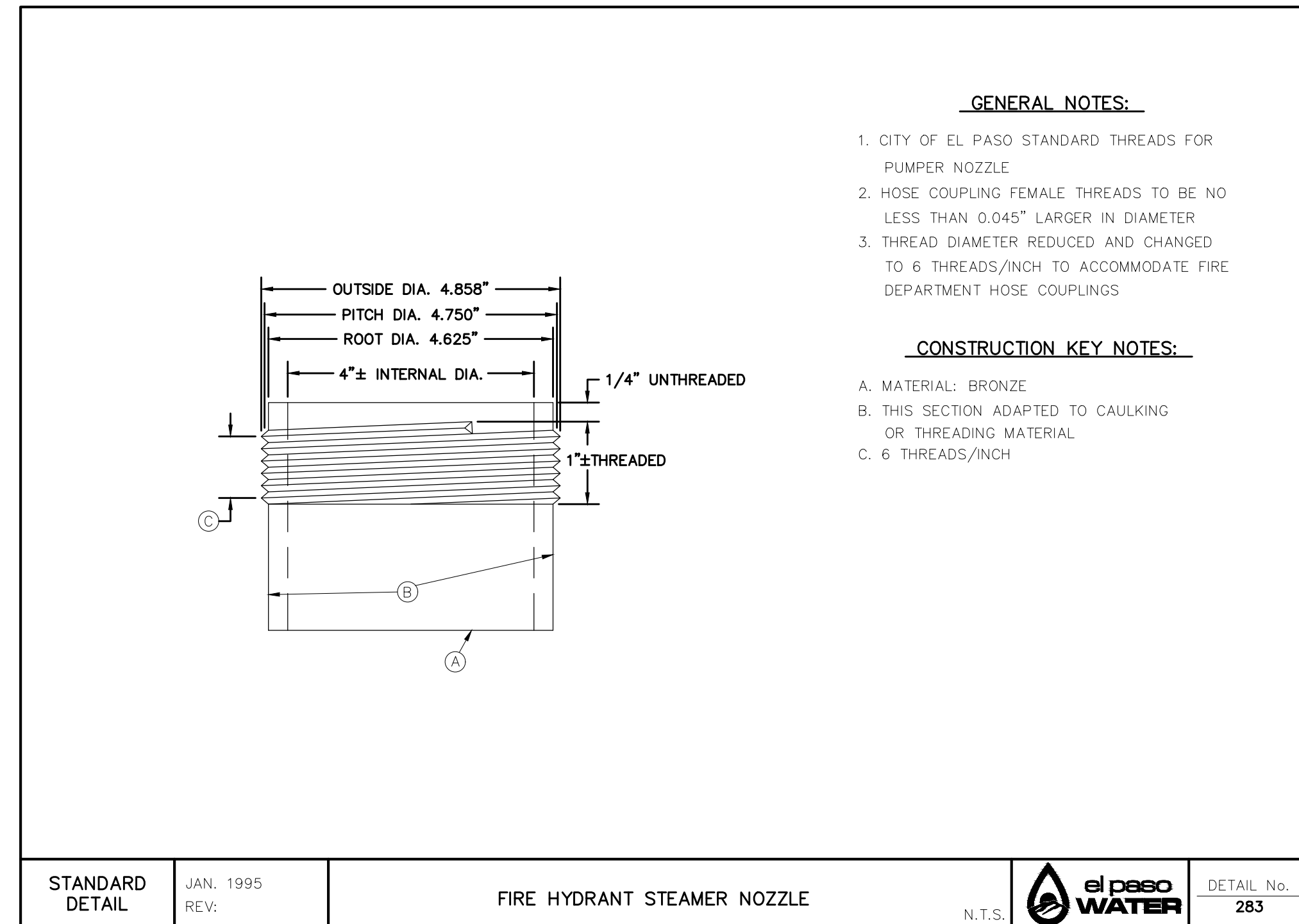
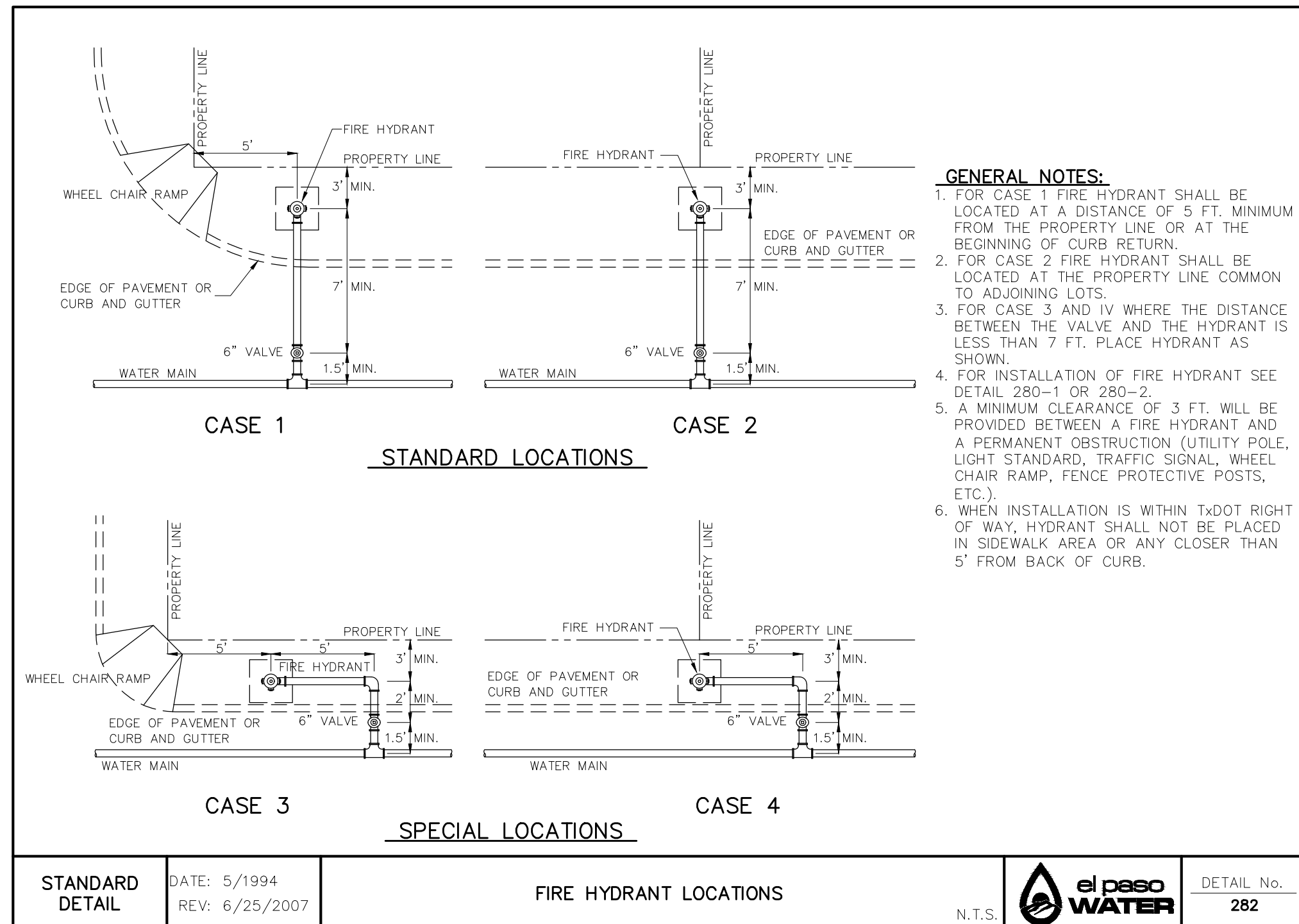
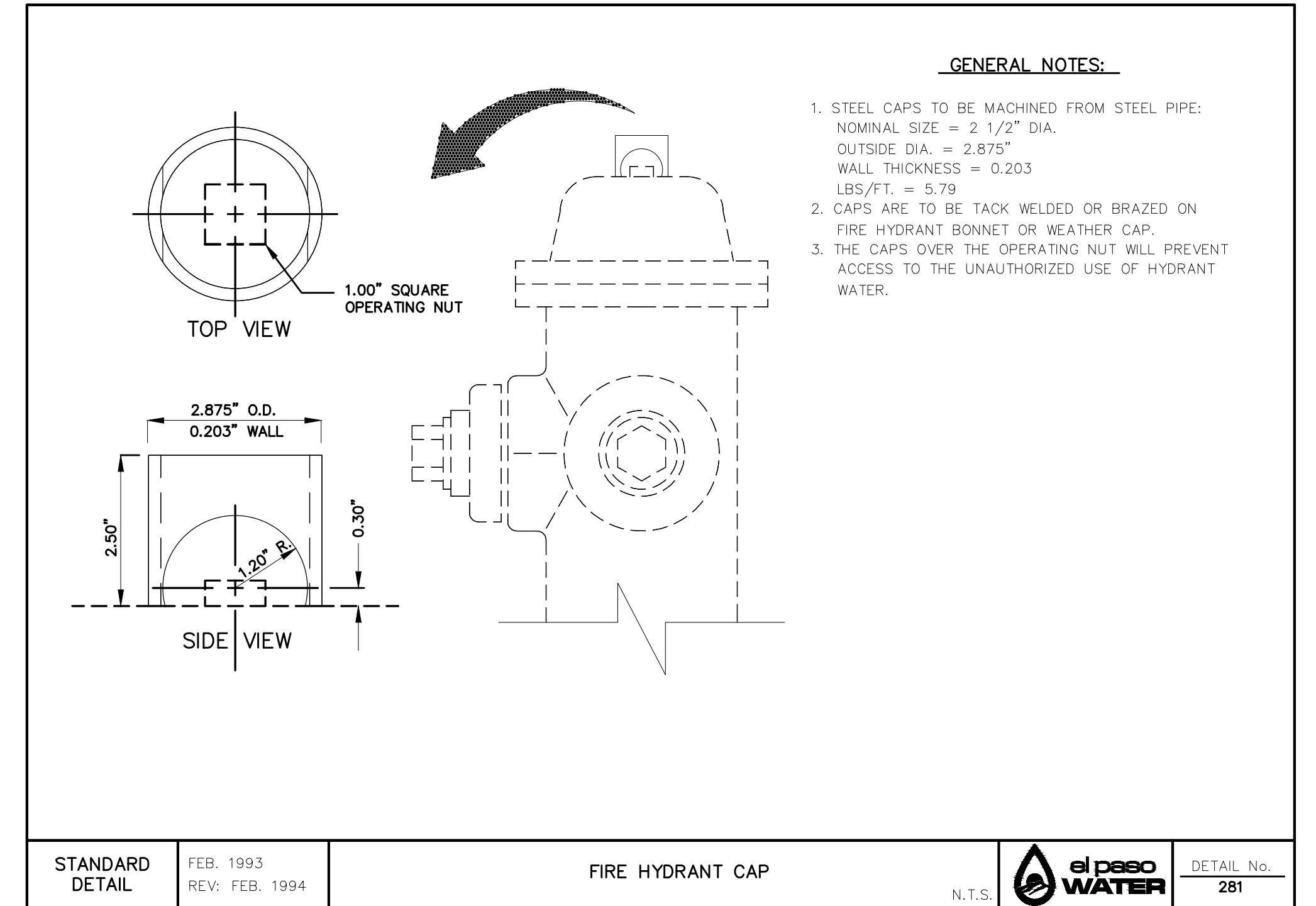
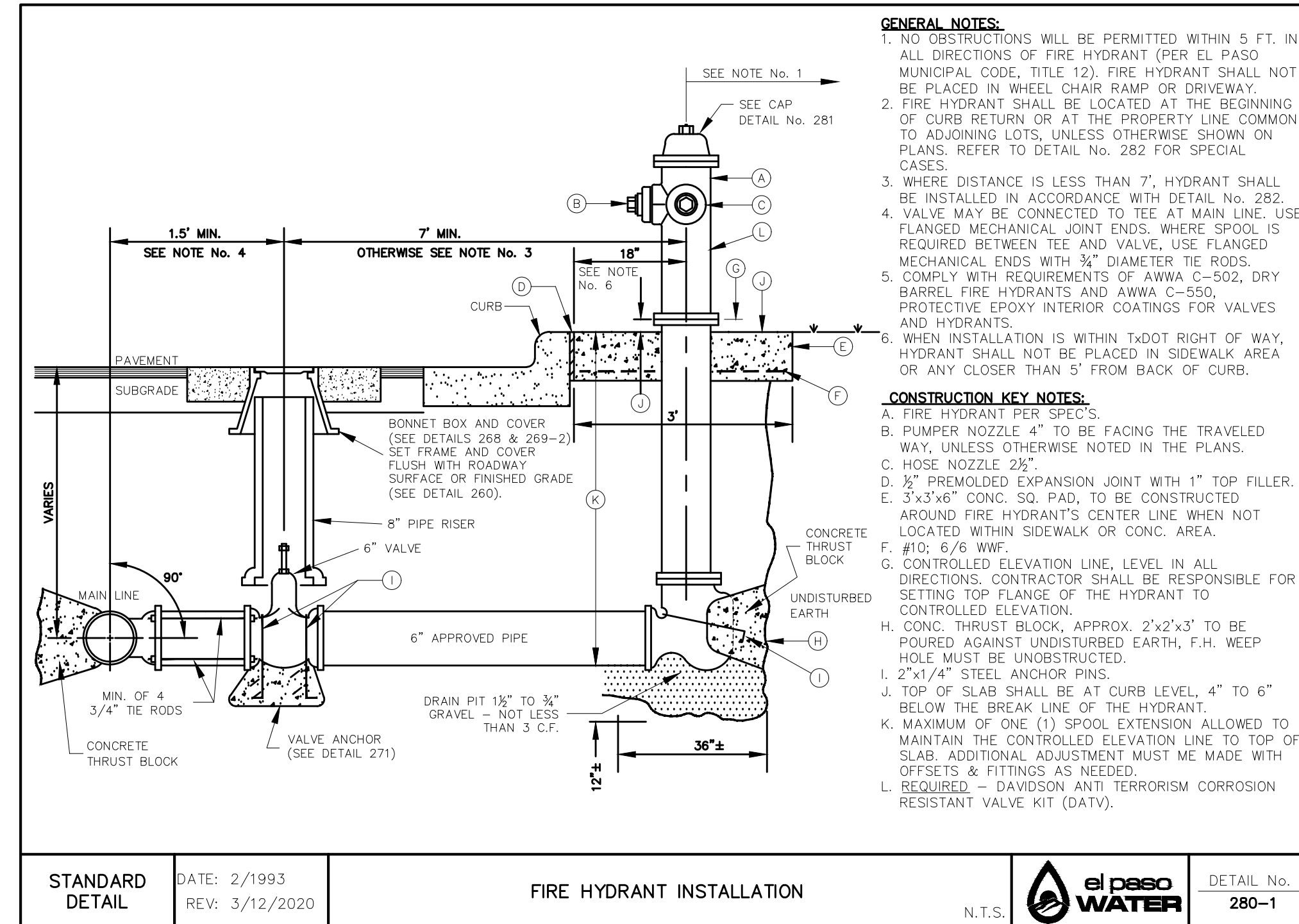
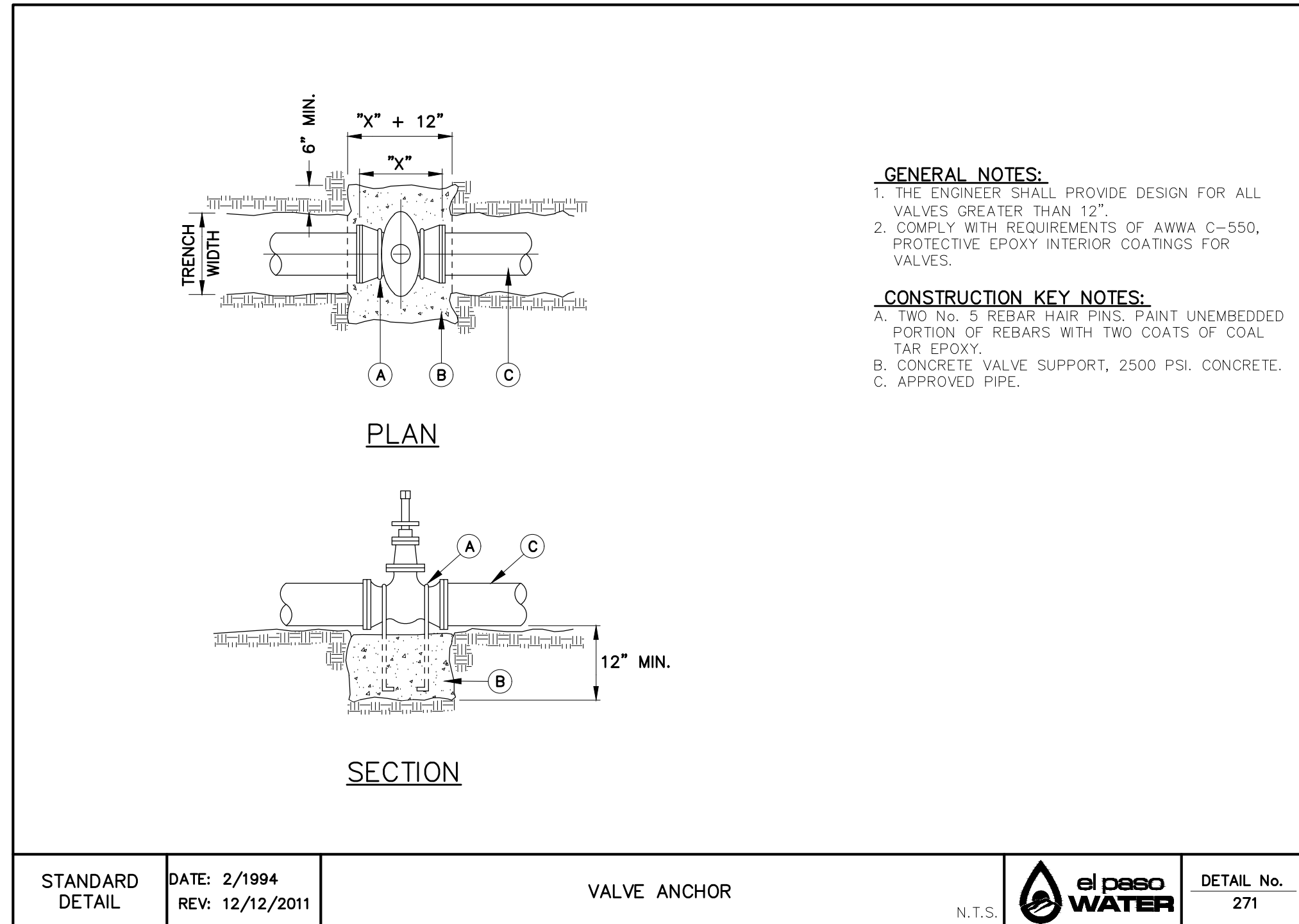
DESIGNED
 H.M. DRAWN
 I.C., I.V. CHECKED
 S.J.A. APPROVED
 H.M. DATE
 02/17/2023

BROCK & BUSTILLOS INC.
 CONSULTING CIVIL ENGINEERS
 LAND SURVEYORS
 417 EXECUTIVE CENTER EL PASO, TEXAS 79902 WWW.BROCKBUSTILLOS.COM
 PH (915) 842-4800 FAX (915) 842-2887 TBPE Registration Number: F-737
 JOB NO. 05970-053

el paso WATER

PROJECT: PECOS STREET WATER AND SEWER LINE IMPROVEMENTS
 SHEET TITLE: TYPICAL DETAILS
 JOB NO. 05970-053
 SEQUENCE NO. C13
 SHEET NO. 13 OF 19

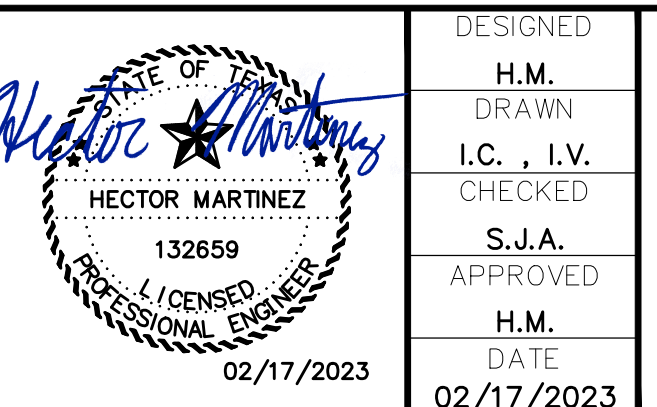
02/16/2023
 HECTOR MARTINEZ
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02/16/2023
 MCKAY, MICHAEL
 S:\PROJECTS\05970 - EL PASO WATER - PFSB ENGINEERING\053- PECOS ST. WATERLINE REPLACEMENT TO SUBDESIGN\12-C17 DETAILS.dwg

REV.	DATE	BY	DESCRIPTION

UTILITY LOCATOR SERVICES	
TIME WARNER COMMUNICATIONS	(915) 775-7415
EL PASO ELECTRIC COMPANY	(915) 877-3400
EL PASO WATER UTILITIES	(915) 594-5500
VERIZON COMMUNICATIONS	(800) 624-9675
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TEXAS GAS SERVICE	(800) 959-5325
KINDER MORGAN	(915) 843-2441
AT&T GENERAL	(915) 595-5151



DESIGNED: H.M.
 DRAWN: I.C., I.V.
 CHECKED: S.J.A.
 APPROVED: H.M.
 DATE: 02/17/2023

BROCK & BUSTILLOS INC.
 CONSULTING CIVIL ENGINEERS
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 417 EXECUTIVE CENTER
 EL PASO, TEXAS 79902
 WWW.BROCKBUSTILLOS.COM
 JOB NO. 05970-053

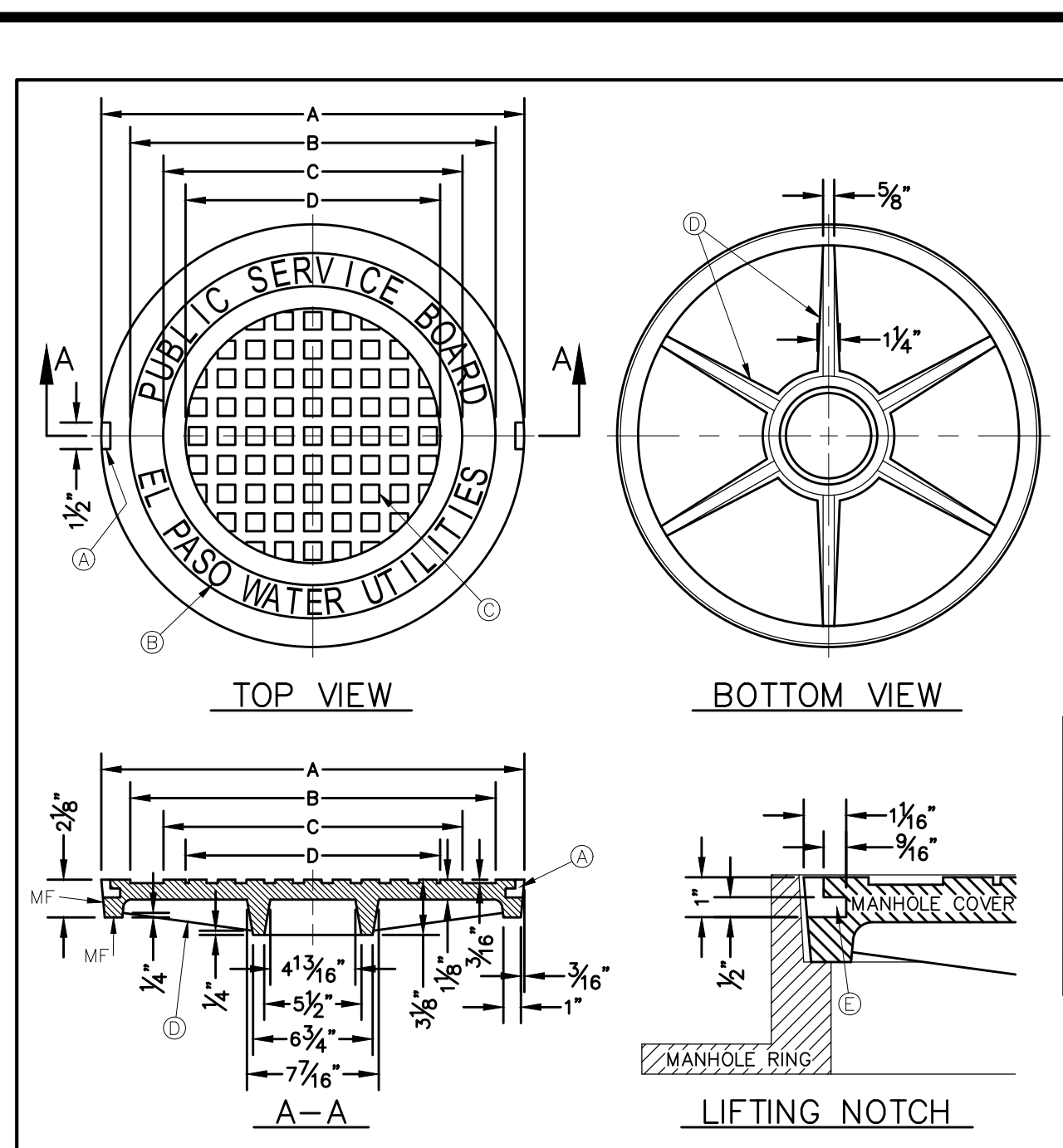
PH (915) 542-4800
 FAX (915) 542-2987
 TBE Registration Number: F-737



PROJECT: PECOS STREET WATER AND SEWER LINE IMPROVEMENTS

SHEET TITLE: TYPICAL DETAILS

JOB NO. 05970-053
 SEQUENCE NO. C14
 SHEET NO. 14 OF 19



GENERAL NOTES:

1. MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
4. AS-CAST DIMENSIONS MAY VARY $\frac{1}{8}$ " PER FOOT (AASHTO M306-07).
5. WEIGHT MAY VARY 5% (AASHTO M306-07).

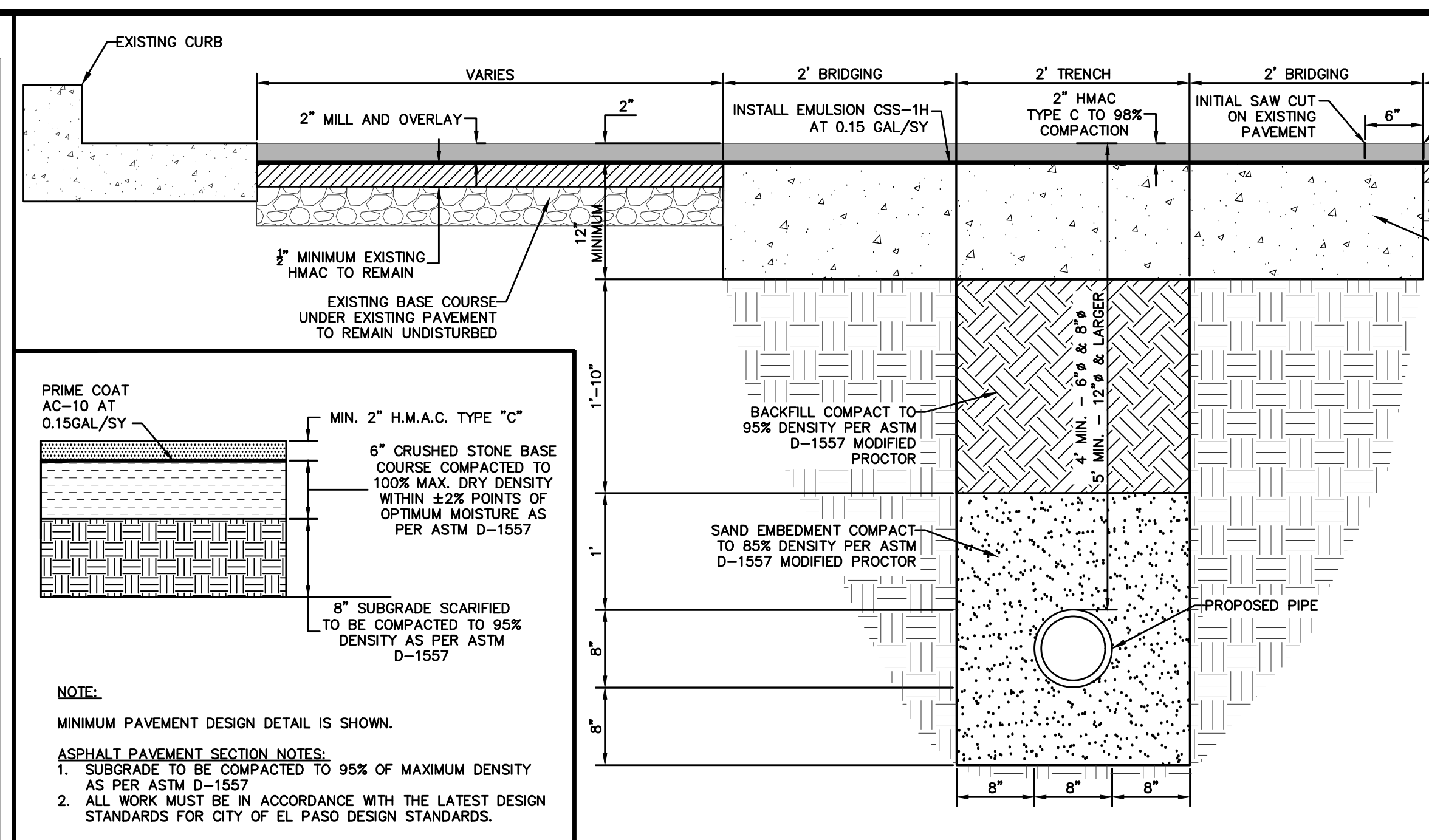
CONSTRUCTION KEY NOTES:

- A. LIFTING NOTCH.
- B. $\frac{3}{16}$ " RAISED LETTERING.
- C. 1" SQUARES ($\frac{3}{16}$ " TALL) WITH $\frac{3}{16}$ " SPACE BETWEEN.
- D. REINFORCING RIBS.
- E. SLOT.

MANHOLE COVER	MANHOLE - ALL TYPES	*MANHOLE TYPE A, A1, A2 & C
A	31 $\frac{3}{8}$ "	23 $\frac{3}{8}$ "
B	28 $\frac{3}{8}$ "	20 $\frac{3}{8}$ "
C	24 $\frac{3}{8}$ "	16 $\frac{3}{8}$ "
D	21 $\frac{3}{8}$ "	14 $\frac{3}{8}$ "
WEIGHT	200 lbs.	165 lbs.

*OBsolete - DO NOT USE (FOR REFERENCE ONLY)

STANDARD DETAIL DATE: 11/1992 REV: 2/21/2011 SEWER MANHOLE COVER N.T.S. el paso WATER DETAIL No. 378



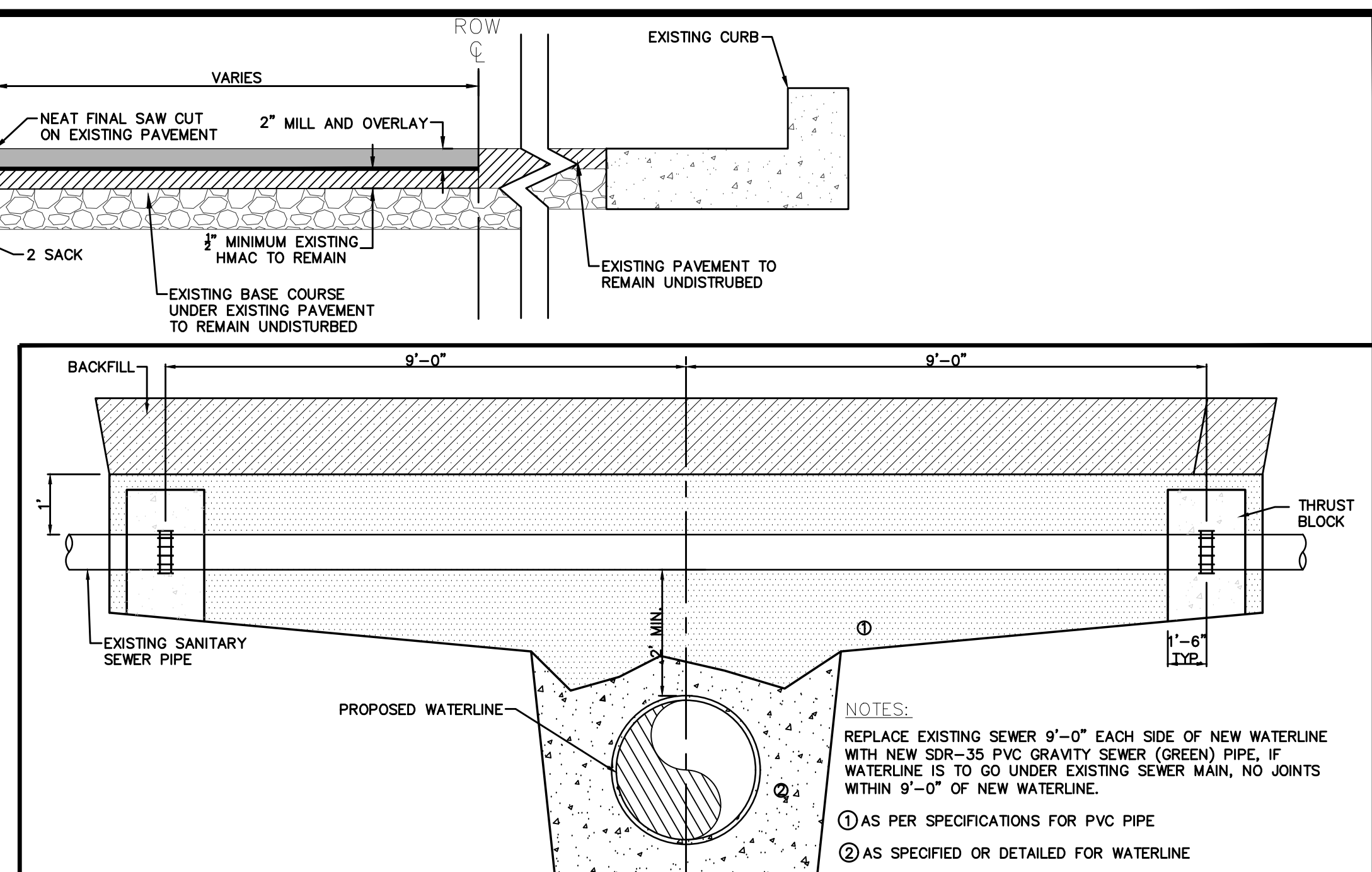
ASPHALT PAVEMENT SECTION SCALE: 1" = 1'

PAVEMENT REPLACEMENT - MILL AND OVERLAY BEYOND TRENCH + 4-SACK BRIDGE LIMITS SCALE: 1" = 1'

NOTE: MINIMUM PAVEMENT DESIGN DETAIL IS SHOWN.

ASPHALT PAVEMENT SECTION NOTES:

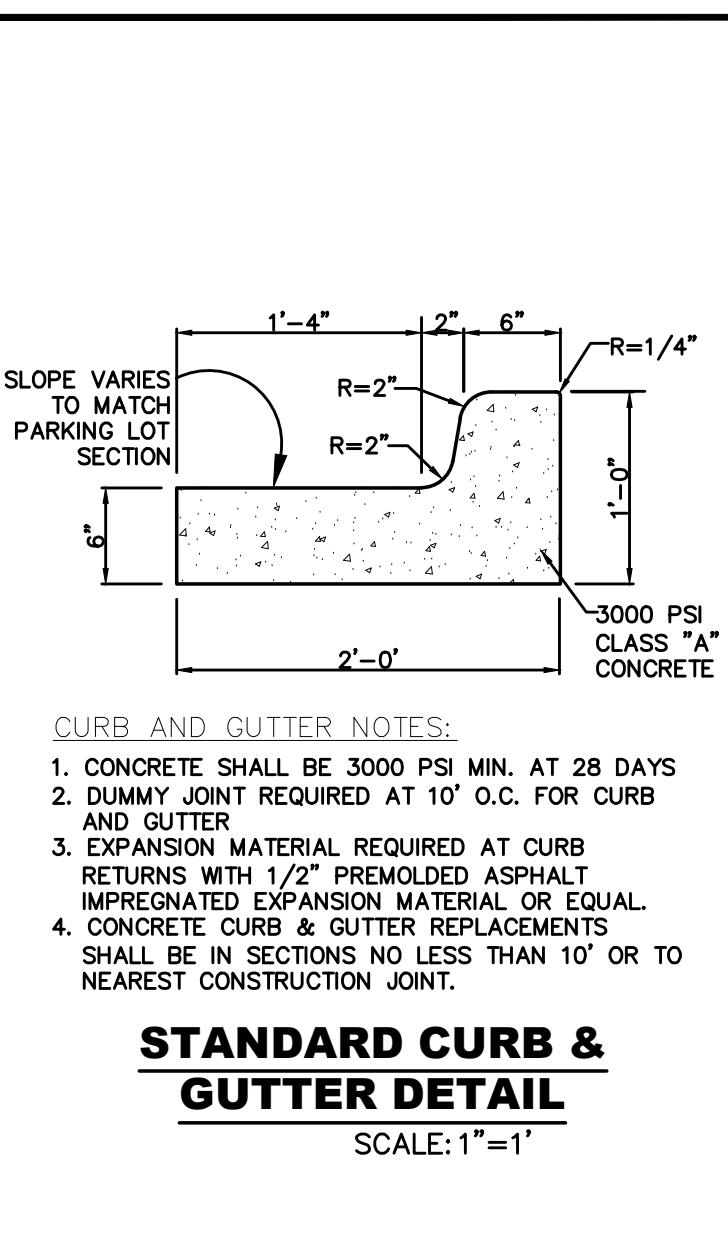
1. SUBGRADE TO BE COMPACTED TO 95% OF MAXIMUM DENSITY AS PER ASTM D-1557
2. ALL WORK MUST BE IN ACCORDANCE WITH THE LATEST DESIGN STANDARDS FOR CITY OF EL PASO DESIGN STANDARDS.



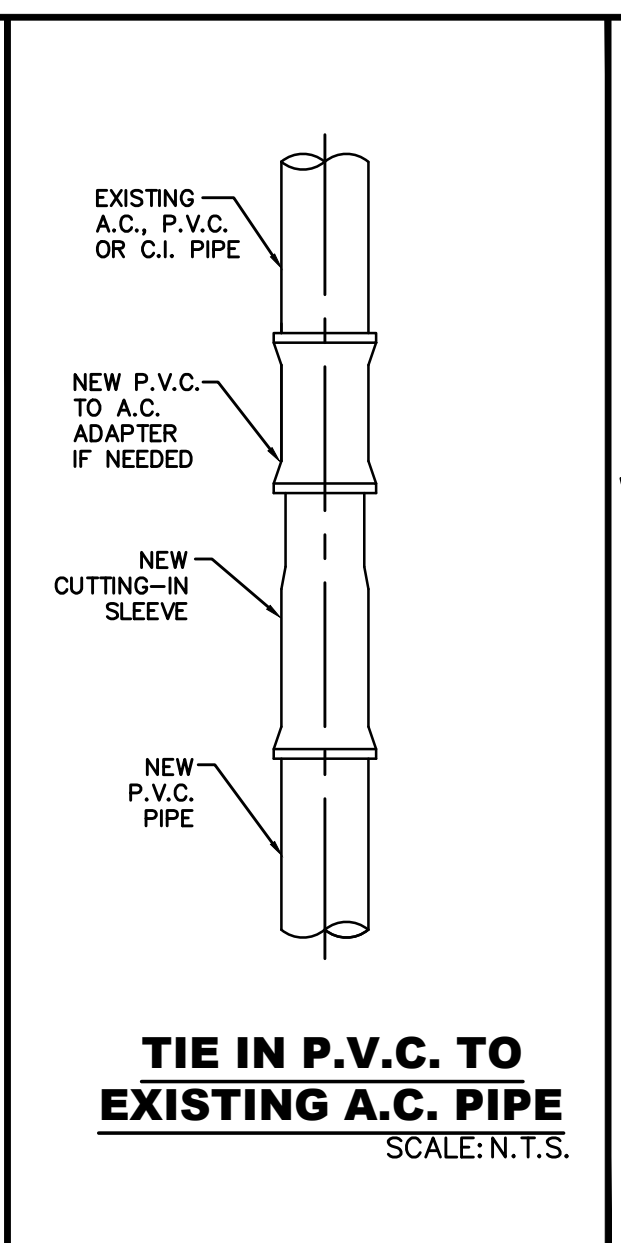
EXISTING SANITARY SEWER MAIN REPLACEMENT SCALE: N.T.S.

NOTES:

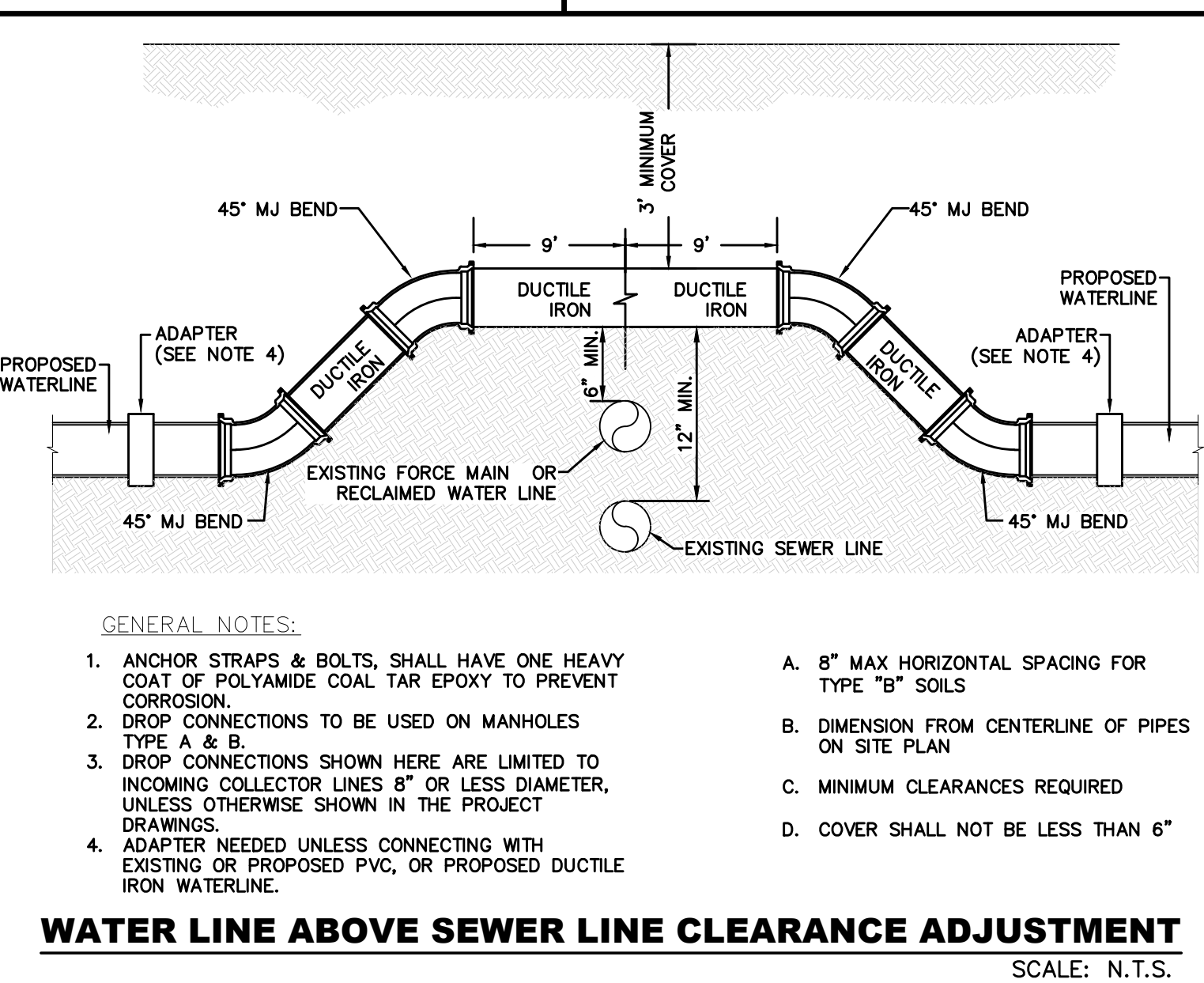
1. REPLACE EXISTING SEWER 9'-0" EACH SIDE OF NEW WATERLINE WITH NEW SDR-35 PVC GRAVITY SEWER (GREEN) PIPE, IF WATERLINE IS TO GO UNDER EXISTING SEWER MAIN, NO JOINTS WITHIN 9'-0" OF NEW WATERLINE.
2. AS PER SPECIFICATIONS FOR PVC PIPE
3. AS SPECIFIED OR DETAILED FOR WATERLINE



STANDARD CURB & GUTTER DETAIL SCALE: 1" = 1'



TIE IN P.V.C. TO EXISTING A.C. PIPE SCALE: N.T.S.

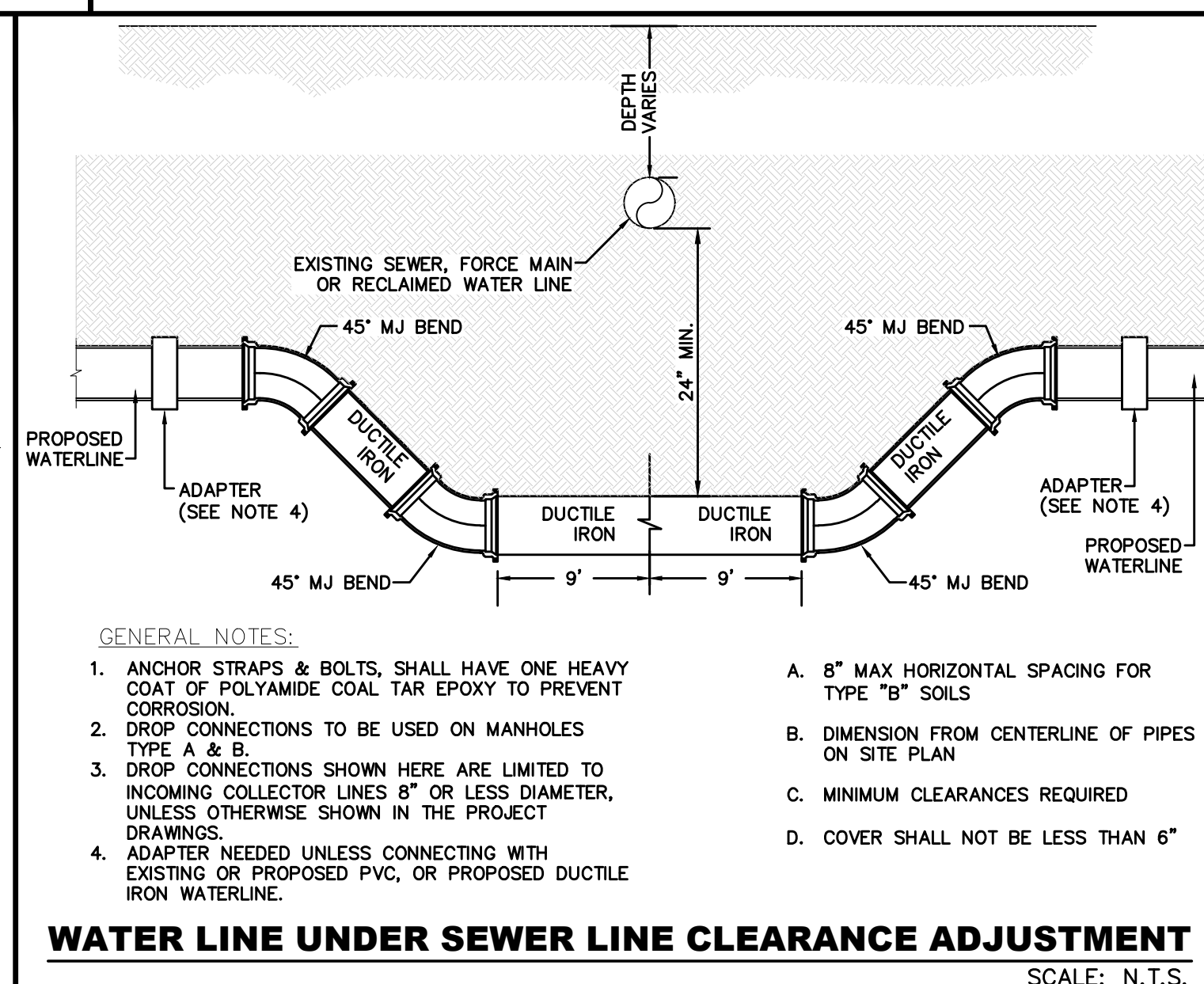


WATER LINE ABOVE SEWER LINE CLEARANCE ADJUSTMENT SCALE: N.T.S.

GENERAL NOTES:

1. ANCHOR STRAPS & BOLTS, SHALL HAVE ONE HEAVY COAT OF POLYAMIDE COAL TAR EPOXY TO PREVENT CORROSION.
2. DROP CONNECTIONS TO BE USED ON MANHOLES TYPE A & B.
3. DROP CONNECTIONS SHOWN HERE ARE LIMITED TO INCOMING COLLECTOR LINES 8" OR LESS DIAMETER, UNLESS OTHERWISE SHOWN IN THE PROJECT DRAWINGS.
4. ADAPTER NEEDED UNLESS CONNECTING WITH EXISTING OR PROPOSED PVC, OR PROPOSED DUCTILE IRON WATERLINE.

- A. 8" MAX HORIZONTAL SPACING FOR TYPE "B" SOILS
- B. DIMENSION FROM CENTERLINE OF PIPES ON SITE PLAN
- C. MINIMUM CLEARANCES REQUIRED
- D. COVER SHALL NOT BE LESS THAN 6"

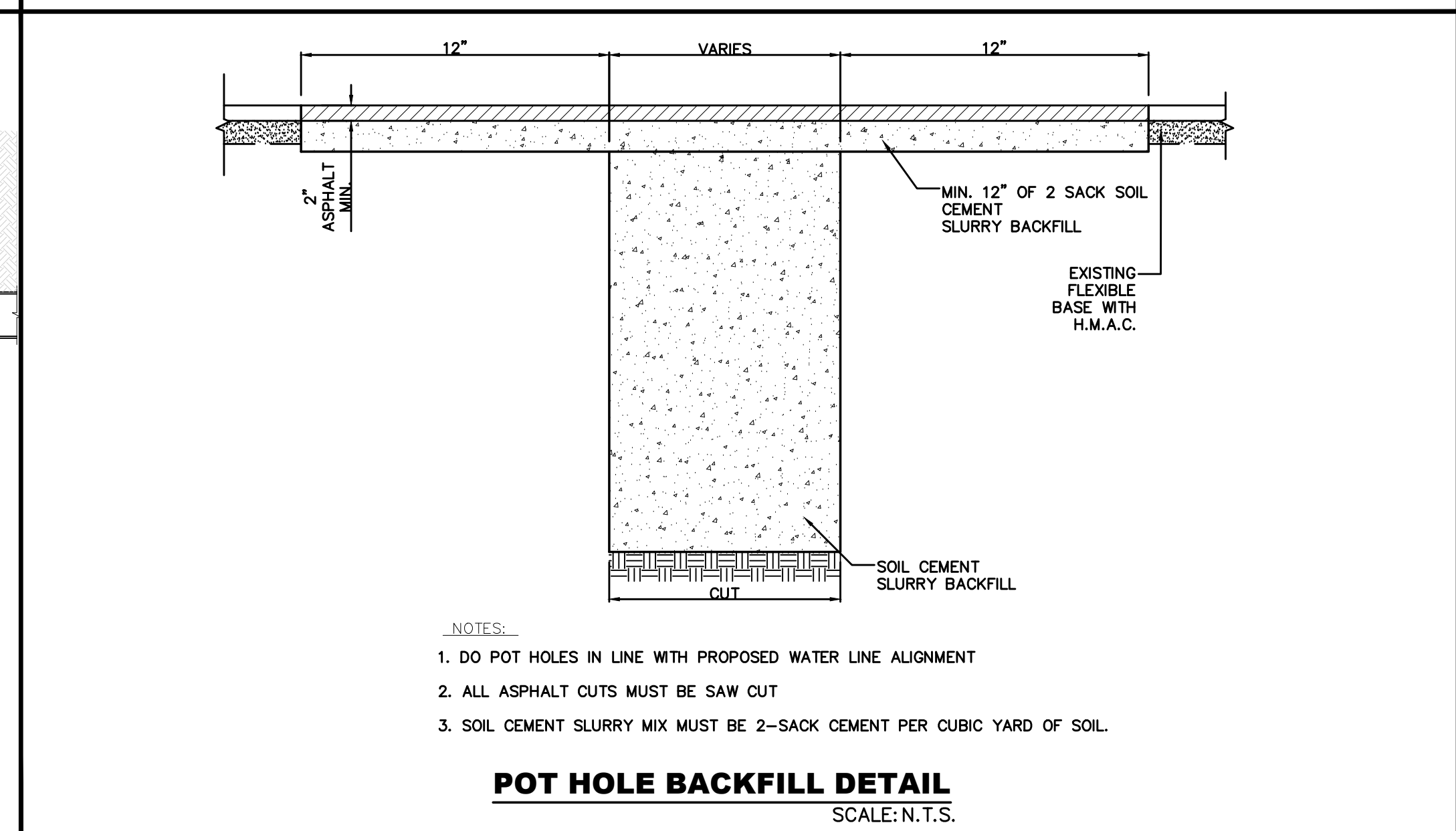


WATER LINE UNDER SEWER LINE CLEARANCE ADJUSTMENT SCALE: N.T.S.

GENERAL NOTES:

1. ANCHOR STRAPS & BOLTS, SHALL HAVE ONE HEAVY COAT OF POLYAMIDE COAL TAR EPOXY TO PREVENT CORROSION.
2. DROP CONNECTIONS TO BE USED ON MANHOLES TYPE A & B.
3. DROP CONNECTIONS SHOWN HERE ARE LIMITED TO INCOMING COLLECTOR LINES 8" OR LESS DIAMETER, UNLESS OTHERWISE SHOWN IN THE PROJECT DRAWINGS.
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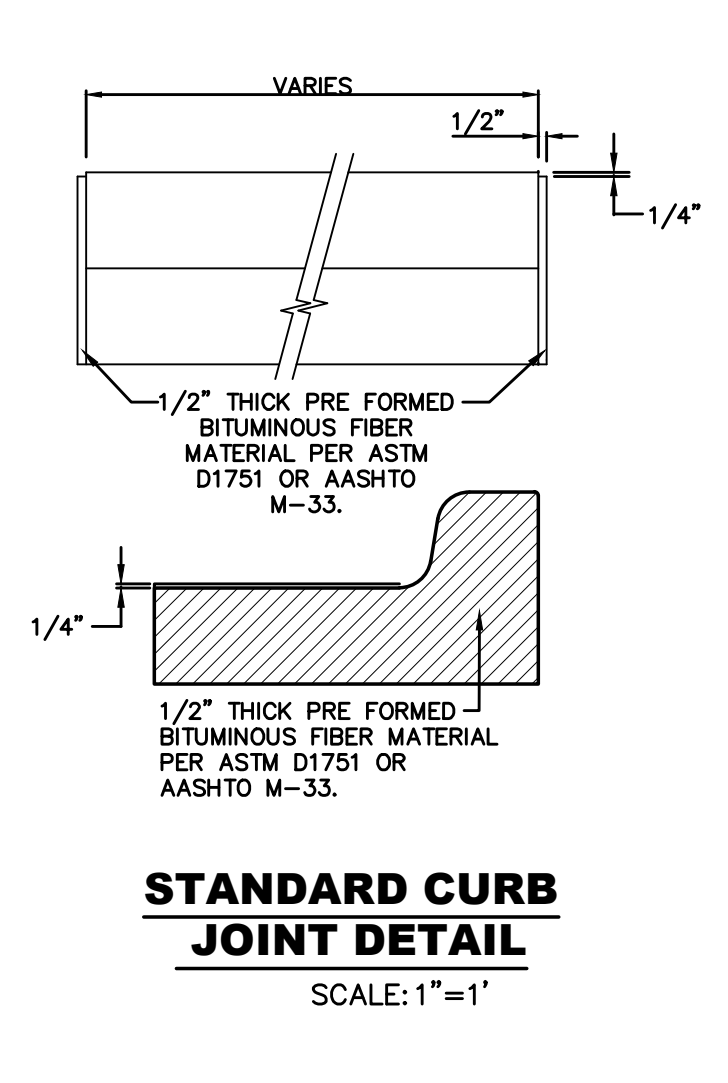
- A. 8" MAX HORIZONTAL SPACING FOR TYPE "B" SOILS
- B. DIMENSION FROM CENTERLINE OF PIPES ON SITE PLAN
- C. MINIMUM CLEARANCES REQUIRED
- D. COVER SHALL NOT BE LESS THAN 6"



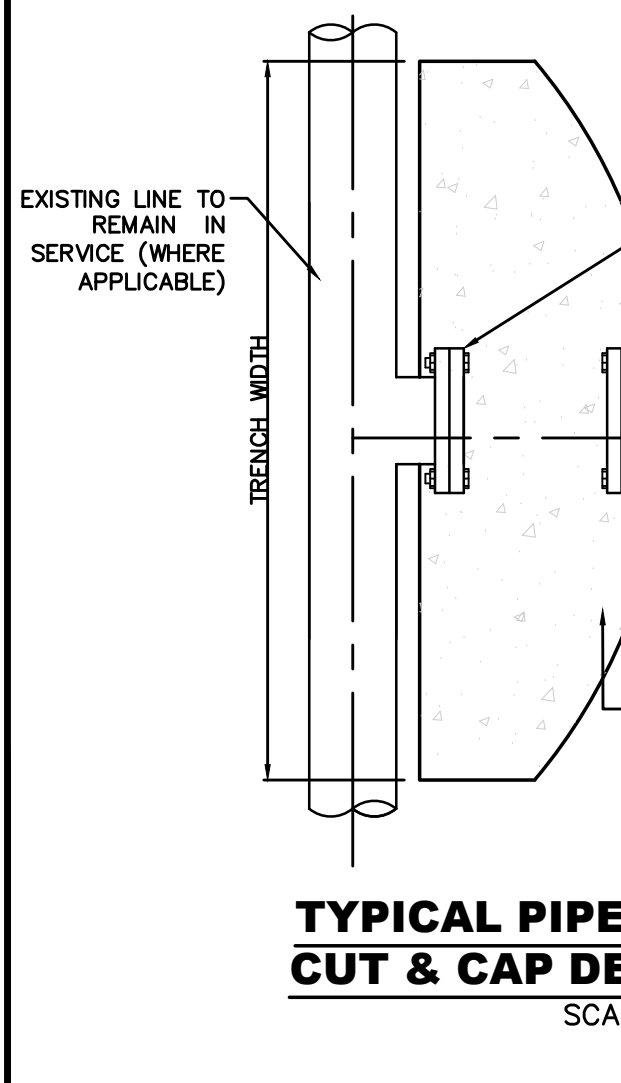
POT HOLE BACKFILL DETAIL SCALE: N.T.S.

NOTES:

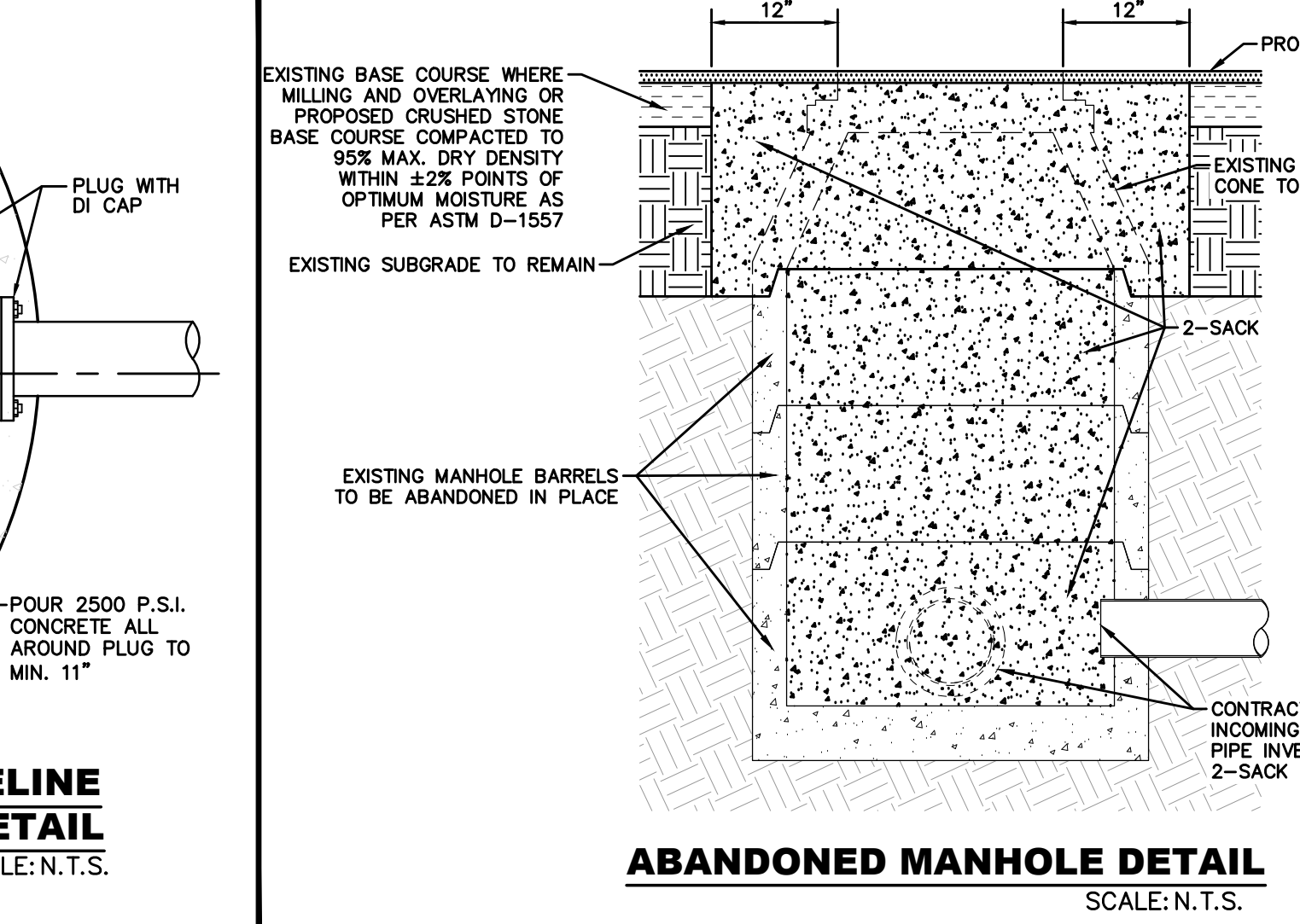
1. DO NOT POLE HOLES IN LINE WITH PROPOSED WATER LINE ALIGNMENT
2. ALL ASPHALT CUTS MUST BE SAW CUT
3. SOIL CEMENT SLURRY MIX MUST BE 2-SACK CEMENT PER CUBIC YARD OF SOIL.



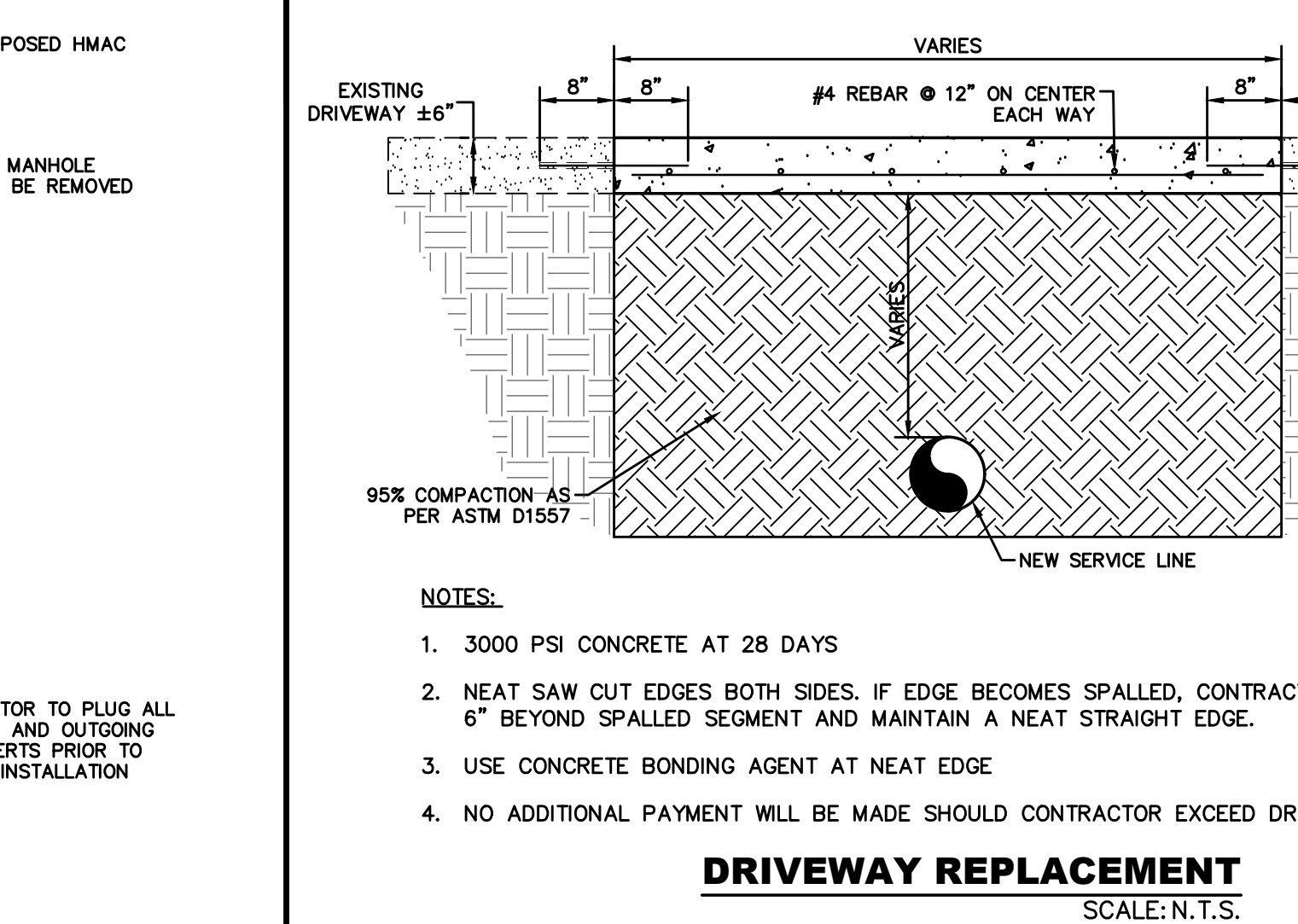
STANDARD CURB JOINT DETAIL SCALE: 1" = 1'



TYPICAL PIPELINE CUT & CAP DETAIL SCALE: N.T.S.



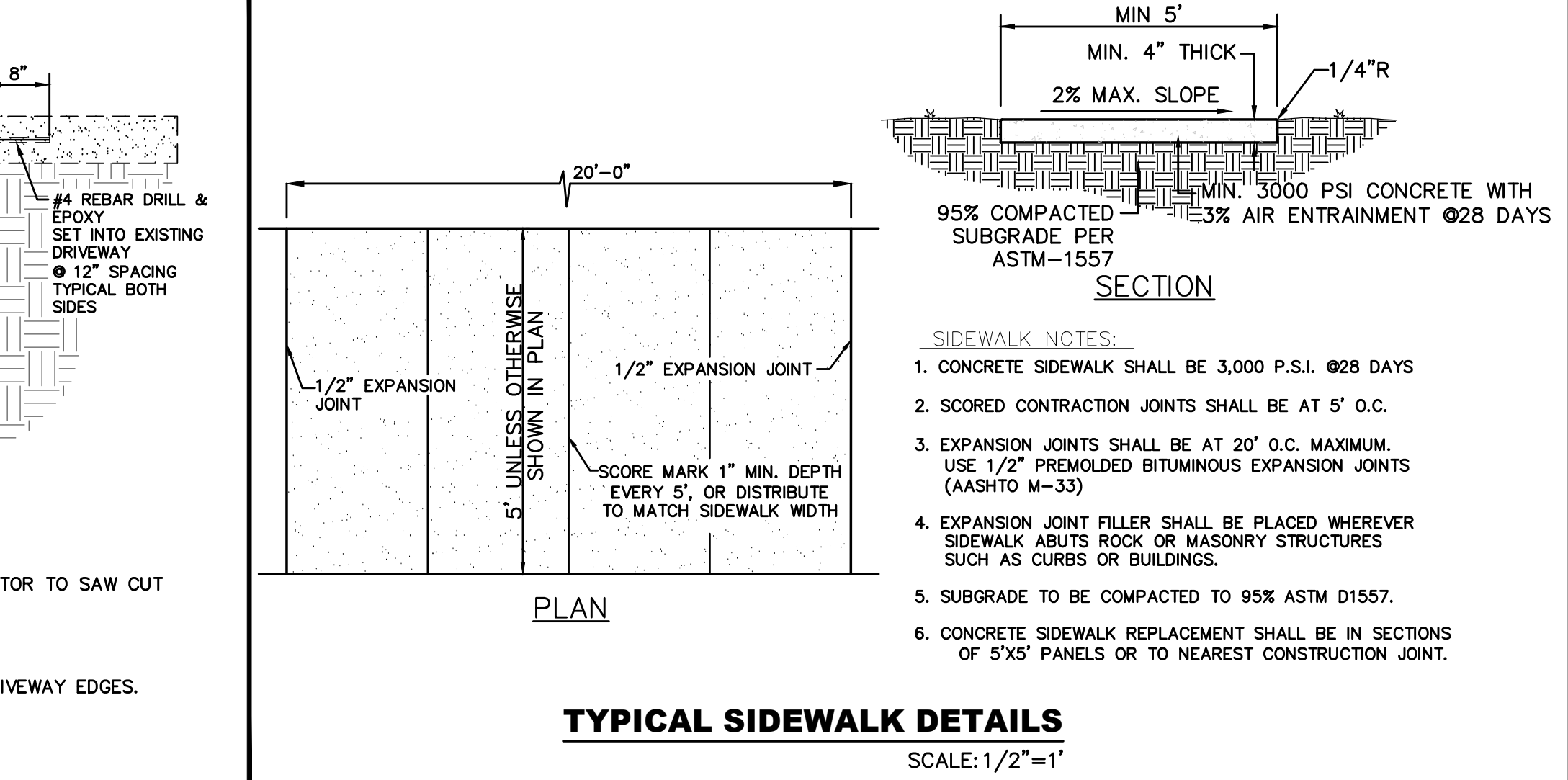
ABANDONED MANHOLE DETAIL SCALE: N.T.S.



DRIVEWAY REPLACEMENT SCALE: N.T.S.

NOTES:

1. 3000 PSI CONCRETE AT 28 DAYS
2. NEAT SAW CUT EDGES BOTH SIDES. IF EDGE BECOMES SPALLED, CONTRACTOR TO SAW CUT 6" BEYOND SPALLED SEGMENT AND MAINTAIN A NEAT STRAIGHT EDGE.
3. USE CONCRETE BONDING AGENT AT NEAT EDGE
4. NO ADDITIONAL PAYMENT WILL BE MADE SHOULD CONTRACTOR EXCEED DRIVEWAY EDGES.



TYPICAL SIDEWALK DETAILS SCALE: 1/2" = 1'

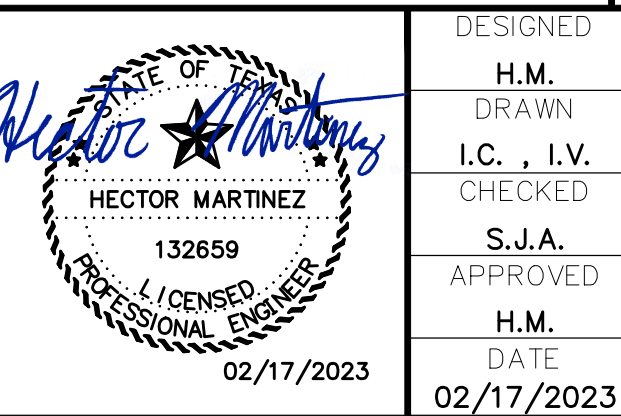
SIDEWALK NOTES:

1. CONCRETE SIDEWALK SHALL BE 3,000 P.S.I. @28 DAYS
2. SCORED CONTRACTION JOINTS SHALL BE AT 5' O.C.
3. EXPANSION JOINTS SHALL BE AT 20' O.C. MAXIMUM. USE 1/2" PREMOULDED BITUMINOUS EXPANSION JOINTS (AASHTO M-33)
4. EXPANSION JOINT FILLER SHALL BE PLACED WHEREVER SIDEWALK ABUTS ROCK OR MASONRY STRUCTURES SUCH AS CURBS OR BUILDINGS.
5. SUBGRADE TO BE COMPACTED TO 95% ASTM D1557.
6. CONCRETE SIDEWALK REPLACEMENT SHALL BE IN SECTIONS OF 5'x5' PANELS OR TO NEAREST CONSTRUCTION JOINT.

REV.	DATE	BY	DESCRIPTION

UTILITY LOCATOR SERVICES

TIME WARNER COMMUNICATIONS	(915) 775-7415
EL PASO ELECTRIC COMPANY	(915) 877-3400
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TEXAS GAS SERVICE	(800) 959-5325
KINDER MORGAN	(915) 843-2441
AT&T GENERAL	(915) 595-5151



DESIGNED H.M. DRAWN I.C., I.V. CHECKED S.J.A. APPROVED H.M. DATE 02/17/2023

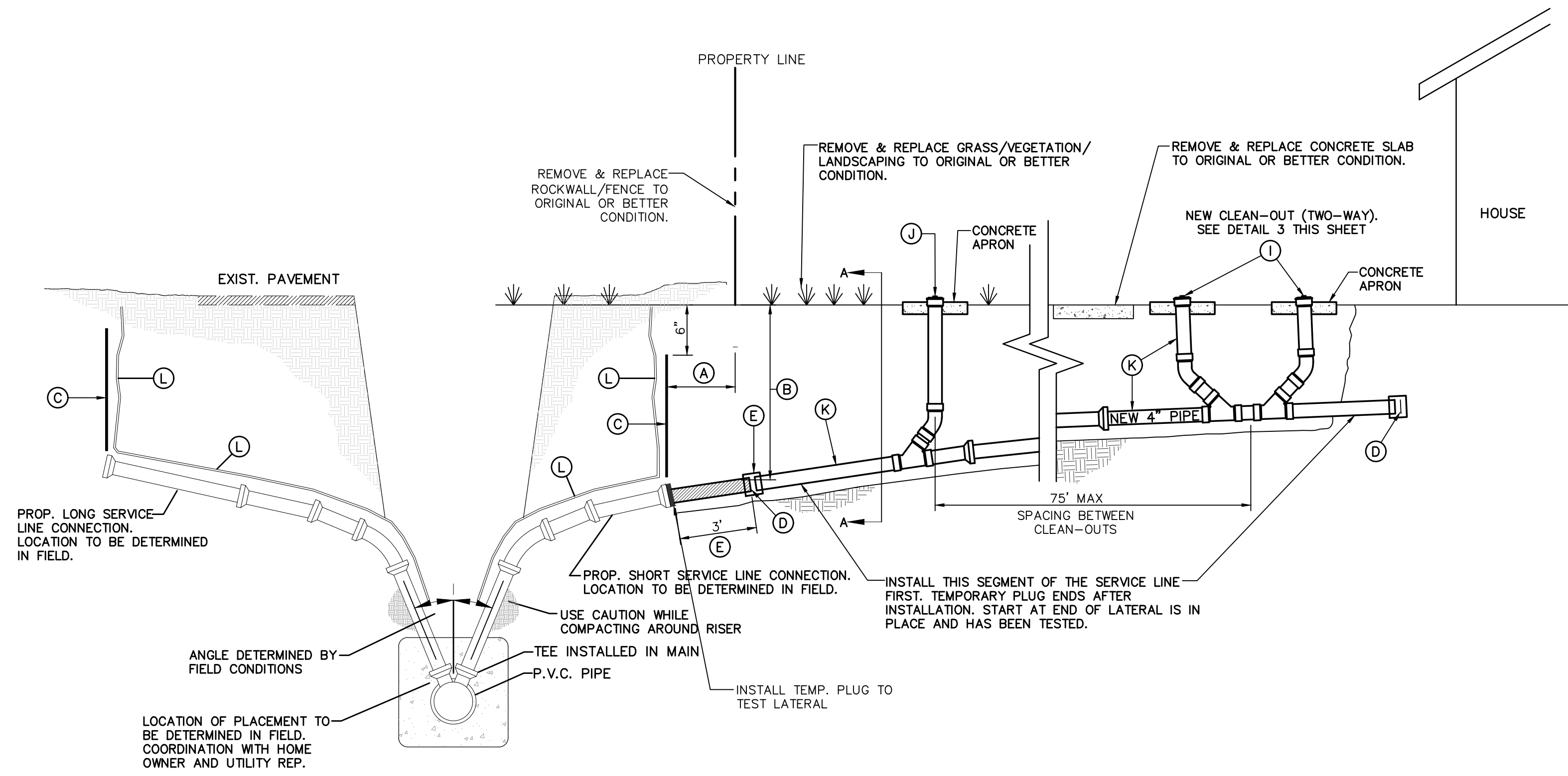
BROCK & BUSTILLOS INC.
CONSULTING CIVIL ENGINEERS
LAND SURVEYORS
417 EXECUTIVE CENTER EL PASO, TEXAS 79902 WWW.BROCKBUSTILLOS.COM
PH (915) 542-4800 FAX (915) 542-2887 TPE Registration Number: F-757
JOB NO. 05970-053



PROJECT: PECOS STREET WATER AND SEWER LINE IMPROVEMENTS

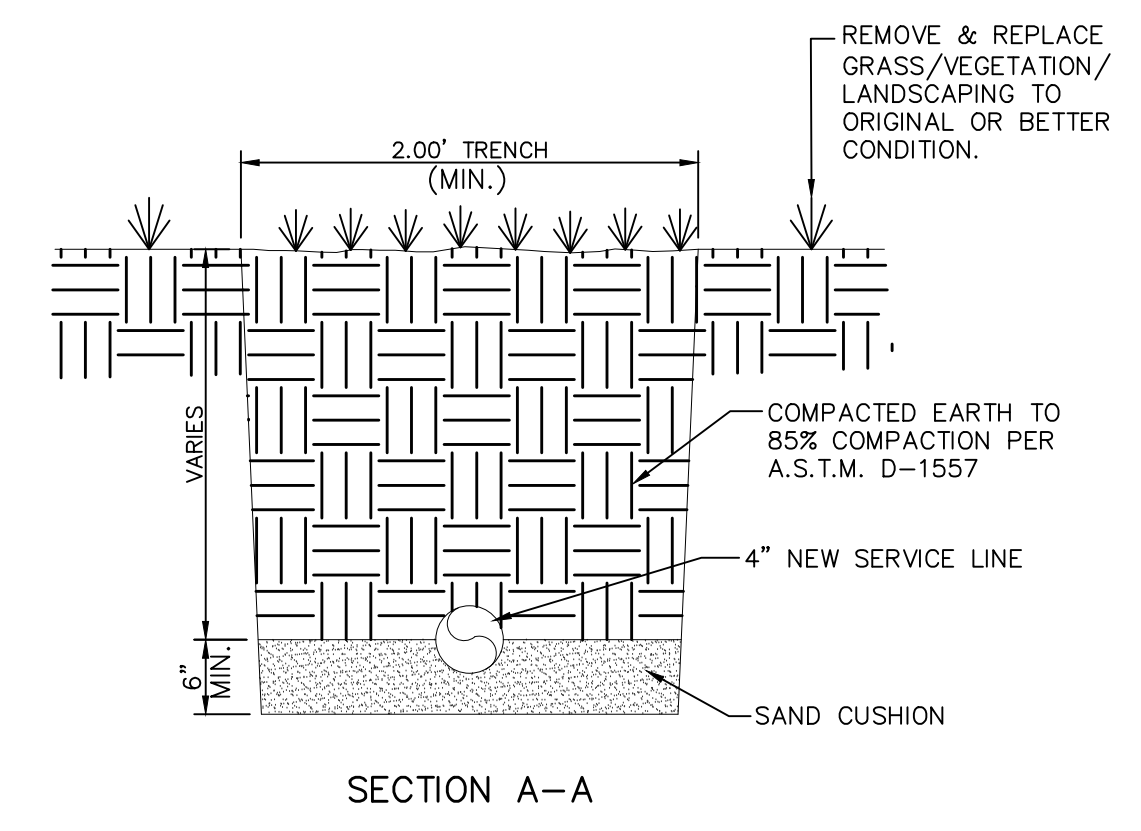
SHEET TITLE: TYPICAL DETAILS

JOB NO. 05970-053
SEQUENCE NO. C16
SHEET NO. 16 OF 19



CONSTRUCTION KEY NOTES:

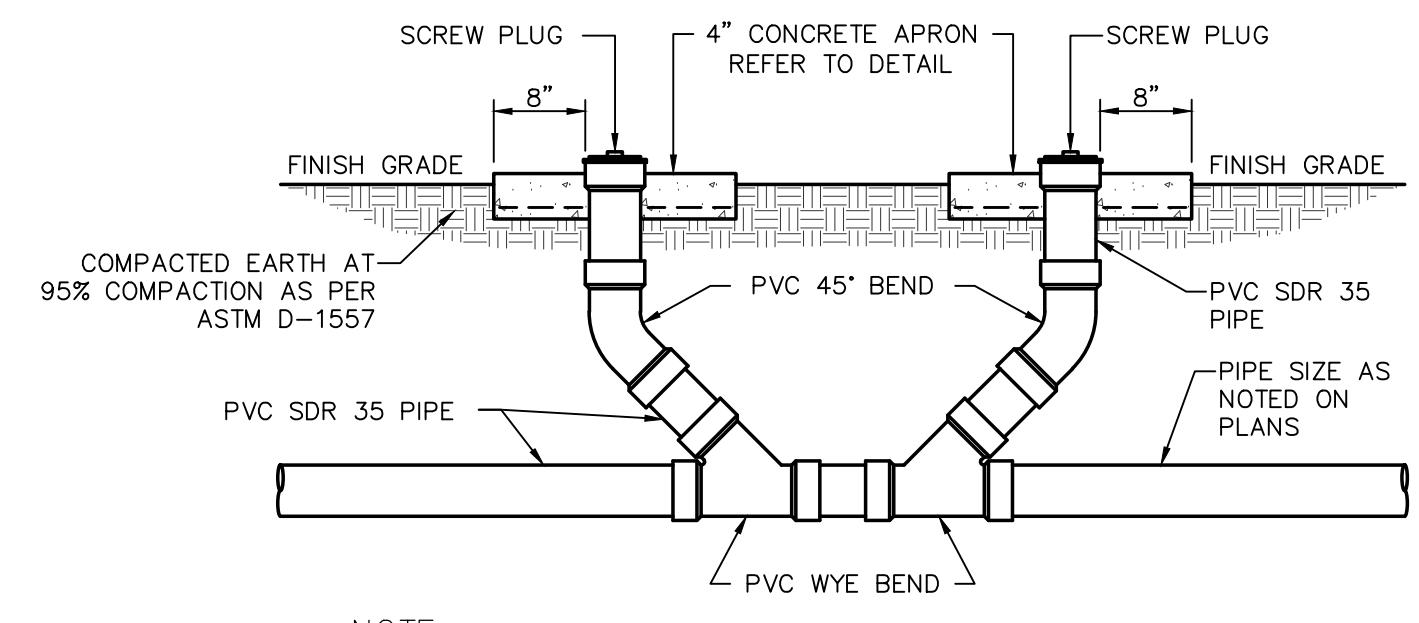
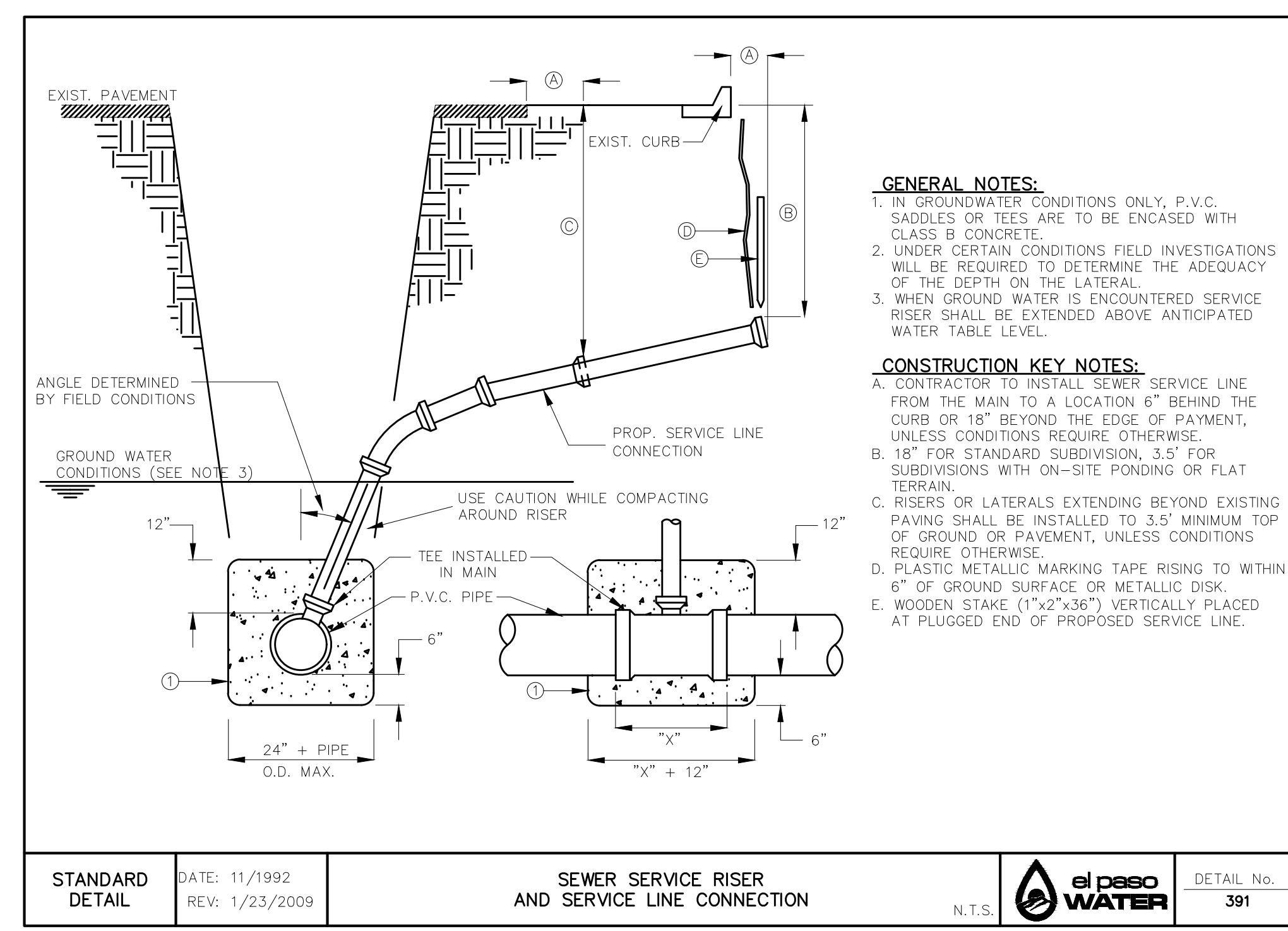
- A. CONTRACTOR TO INSTALL SEWER SERVICE LINE FROM THE MAIN TO A LOCATION 2' FROM THE PROPERTY LINE/ROCKWALL/ FENCE UNLESS CONDITIONS REQUIRE OTHERWISE.
- B. DEPTH SHALL BE A MINIMUM 48".
- C. VERTICALLY PLACE AND MAINTAIN A NO. 4 REBAR TIE-IN LOCATOR PRIOR TO INSTALLATION OF LATERAL AND FOR DURATION OF CONSTRUCTION, LOCATION OF DEPTH TO BE COORDINATED BETWEEN INSTALLER, PROPERTY OWNER, AND UTILITY REPRESENTATIVE, THEN RECORDED.
- D. VERIFY DEPTH OF TIE-INS AT BOTH ENDS IN COORDINATION WITH PROPERTY OWNER AND UTILITY REPRESENTATIVE. CHOOSE THE SHORTEST ROUTE WITH THE LEAST DAMAGE TO PROPERTY. INCLUDE CLEAN-OUTS, BENDS, PLUGS AND FITTINGS. IF IT IS NECESSARY TO INSTALL UNDER CONCRETE AREAS SAW-CUT THE CONCRETE OR A NONDESTRUCTIVE METHOD. INSTALL TEMPORARY PLUGS AT ENDS AFTER COMPLETION. RESTORE AREA TO ORIGINAL CONDITION.
- E. ONCE LATERAL IS INSTALLED & TESTED, REMOVE TEMPORARY PLUG & INSTALL NEW PIPE AT LATERAL END (USE NECESSARY PVC ADAPTERS FROM LATERAL TO NEW PRIVATE PIPE) AND TIE-IN TO PREVIOUSLY INSTALLED SEGMENT WITH RUBBER BOOT.
- F. EMPTY SEPTIC TANK USING A LICENSED WASTE TRANSPORTER. REMOVE PORTION OF EXISTING LINE FOR TIE-IN & PLUG REMAINING EXISTING LINE TO BE ABANDONED THEN CONNECT NEW PIPE TO THE CLEAN-OUT & TIE-IN TO EXISTING LINE WITH RUBBER BOOT. AFTER COMPLETION, FILL SEPTIC TANK WITH CLEAN SAND FREE OF ORGANIC DEBRIS OR FLOWABLE FILL (UNDER EXISTING CONCRETE SLABS ONLY) AND RESTORE AREA TO ORIGINAL CONDITION.
- G. ATTACH TO THE HOUSE A 2 INCH VENT PIPE WITH VENT CAP IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.
- H. EXISTING SANITARY SEWER LINE FROM THE HOUSE TO SEPTIC TANK OR OTHER HOUSEHOLD SEWER DISPOSAL.
- I. TWO WAY CLEAN-OUT WITH RISER & SCREW ON PLUG (75 FEET MAXIMUM SPACING BETWEEN CLEAN-OUTS).
- J. LINE CLEAN-OUT WITH RISER & SCREW ON PLUG.
- K. PVC SDR 35 PIPE ASTM D3034 & D-1784.
- L. PLASTIC METALLIC MARKING TAPE RISING TO WITHIN 6" OF GROUND SURFACE OR METALLIC DISK.



NOTES:

1. WHEN P.V.C. SADDLES ARE USED THEY ARE TO BE ENCASED WITH A 3" MINIMUM LAYER OF CLASS B CONCRETE.
2. CONTRACTOR TO COORDINATE LOCATION OF NEW CLEAN-OUT ASSEMBLY AND REPLACEMENT LIMITS WITH OWNER.
3. COMPLY WITH ALL OSHA REQUIREMENTS REGARDING TRENCH SAFETY.
4. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PLUMBING CODE.
5. CLEAN-OUTS TO BE LOCATED OUTSIDE DRIVEWAY LIMITS.
6. CONTRACTOR SHALL INSTALL TWO WAY CLEAN-OUT PRIOR TO INSTALLING OTHER CLEAN-OUTS AT 75' MAX SPACING
7. RESTORATION OF LANDSCAPING FEATURES (GRASS, BUSHES, TREES, CONCRETE, ETC.) SHALL BE COMPLETED WITHIN ONE CALENDAR WEEK AFTER YARD LINE IS INSTALLED. IT SHOULD NOT WAIT UNTIL TANK IS DECOMMISSIONED.
8. UNDER CERTAIN CONDITIONS FIELD INVESTIGATIONS WILL BE REQUIRED TO BE DETERMINED THE ADEQUACY OF THE DEPTH ON THE LATERAL.
9. VERIFY DEPTH AND LOCATION OF TIE-INS AT BOTH ENDS, IN COORDINATION WITH PROPERTY OWNER AND UTILITY REP. CHOOSE THE SHORTEST ROUTE WITH THE LEAST DAMAGE TO PROPERTY. INCLUDE CLEANOUTS, BENDS, PLUGS, AND FITTINGS. IF IT IS NECESSARY TO INSTALL UNDER CONCRETE AREAS SAW CUT THE CONCRETE OR USE A NON DESTRUCTIVE METHOD. INSTALL TEMPORARY PLUGS AT ENDS AFTER COMPLETION, RESTORE AREA TO ORIGINAL CONDITION.

TYPICAL YARD LINE CONNECTION
SCALE: N.T.S.



TWO WAY CLEAN-OUT
SCALE: N.T.S.

02/17/2023 HECTOR MARTINEZ S:\Projects\05970 - EL PASO WATER - FBSE ENGINEERING\05970 - PECOS ST. WATERLINE REPLACEMENT TO 5' DESIGN\ACT12-C17 DETAILS.dwg

REV.	DATE	BY	DESCRIPTION

UTILITY LOCATOR SERVICES	
TIME WARNER COMMUNICATIONS	(915) 775-7415
EL PASO ELECTRIC COMPANY	(915) 877-3400
EL PASO WATER UTILITIES	(915) 594-5500
VERIZON COMMUNICATIONS	(800) 624-9675
HOLLY ENERGY PARTNERS	(915) 494-0549
TEXAS GAS SERVICE	(800) 959-5325
KINDER MORGAN	(915) 843-2441
AT&T GENERAL	(915) 595-5151

STOP!
CALL BEFORE YOU DIG

FOR FIELD LOCATING EXISTING UTILITIES

DESIGNED H.M.
DRAWN I.C., I.V.
CHECKED S.J.A.
APPROVED H.M.
DATE 02/17/2023

BROCK & BUSTILLOS INC.
CONSULTING CIVIL ENGINEERS
LAND SURVEYORS

417 EXECUTIVE CENTER EL PASO, TEXAS 79902 WWW.BROCKBUSTILLOS.COM

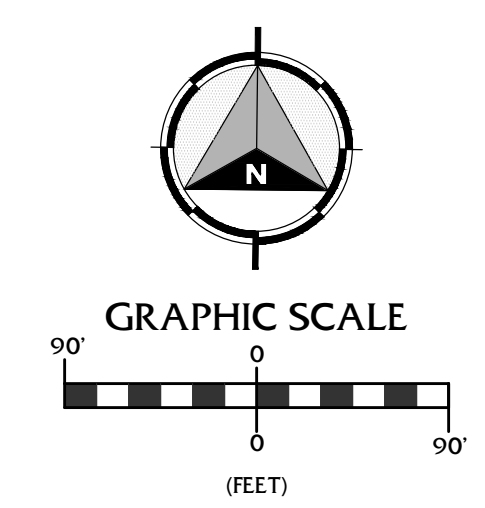
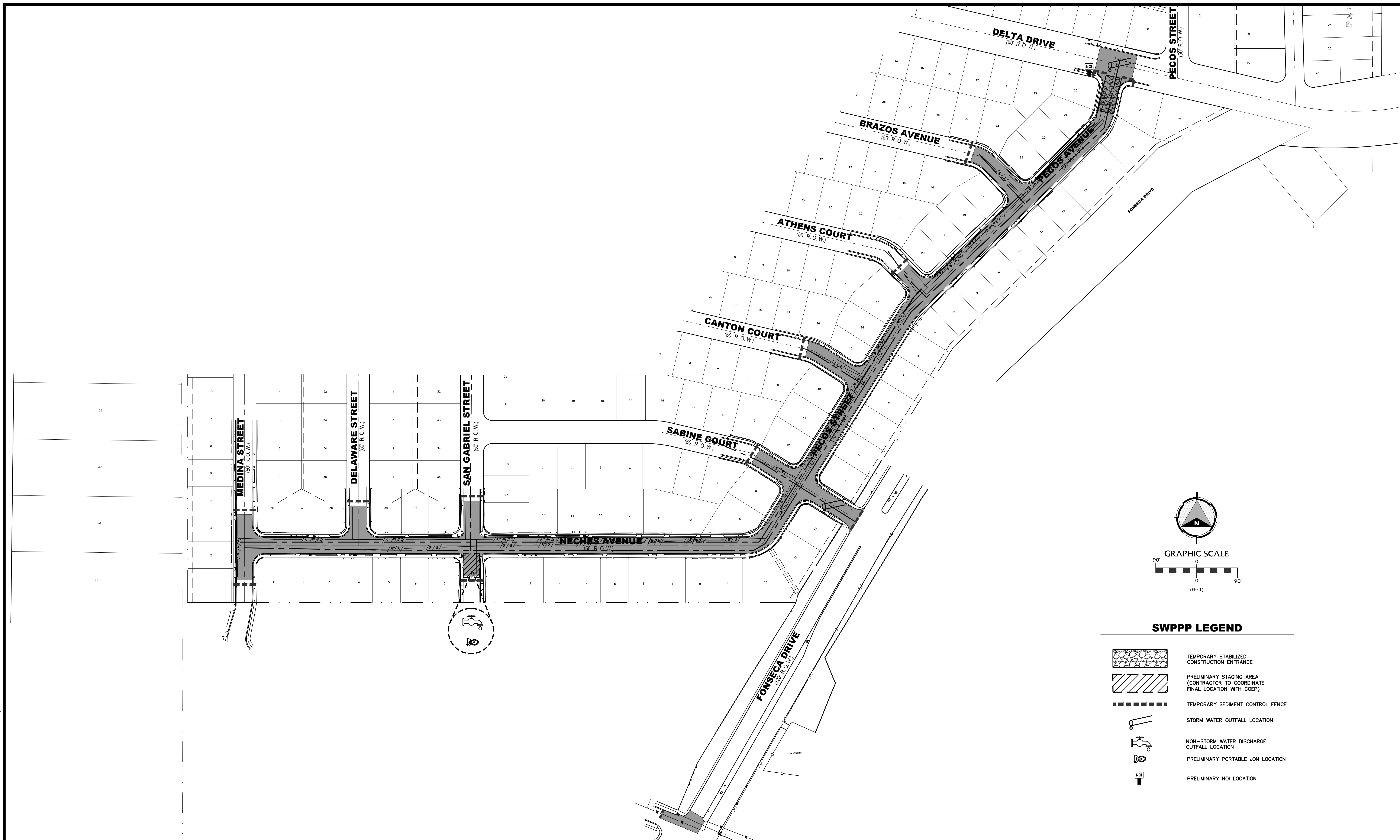
PH (915) 542-4800 FAX (915) 542-2987 TBEPE Registration Number: F-737

JOB NO. 05970-053

PROJECT: PECOS STREET WATER AND SEWER LINE IMPROVEMENTS

SHEET TITLE: TYPICAL DETAILS

JOB NO. 05970-053
SEQUENCE NO. C17
SHEET NO. 17 OF 19



SWPPP LEGEND

	TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
	PRELIMINARY STAGING AREA (CONTRACTOR TO COORDINATE FINAL LOCATION WITH COEP)
	TEMPORARY SEDIMENT CONTROL FENCE
	STORM WATER OUTFALL LOCATION
	NON-STORM WATER DISCHARGE OUTFALL LOCATION
	PRELIMINARY PORTABLE JON LOCATION
	PRELIMINARY NOI LOCATION

REV.	DATE	BY	DESCRIPTION

UTILITY LOCATOR SERVICES

TIME WARNER COMMUNICATIONS	(915) 775-7415
EL PASO ELECTRIC COMPANY	(915) 877-3400
EL PASO WATER UTILITIES	(915) 594-5500
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KINDER MORGAN	(915) 843-2441
AT&T GENERAL	(915) 595-5151

STOP! CALL BEFORE YOU DIG

FOR FIELD LOCATING EXISTING UTILITIES

DESIGNED
H.M.
DRAWN
I.C., I.V.
CHECKED
S.J.A.
APPROVED
H.M.
DATE
02/17/2023

BROCK & BUSTILLOS INC.
CONSULTING CIVIL ENGINEERS
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417 EXECUTIVE CENTER
EL PASO, TEXAS 79902
WWW.BROCKBUSTILLOS.COM

PH (915) 542-4800
FAX (915) 542-2987
TPE Registration Number: F-737

JOB NO. 05970-053

PROJECT: **PECOS STREET WATER AND SEWER LINE IMPROVEMENTS**

SHEET TITLE: **SWPPP**

JOB NO. 05970-053
SEQUENCE NO. **C18**
SHEET NO. **18** OF **19**

02/16/2023
 HECTOR MARTINEZ
 S:\Projects\05970 - EL PASO WATER - SWPPP REPLACEMENT TO 5\DESIGN\CLIBSWPPP.dwg

I. SITE DESCRIPTION

PROJECT LOCATION AND LIMITS: NECHES AVENUE AND PECOS STREET
PROJECT NAME: PECOS STREET WATER AND SEWER LINE REPLACEMENT
EXISTING CONDITIONS: RESIDENTIAL AREA WITH PAVED ROADS
MAJOR SOIL DISTURBING ACTIVITIES: PAVEMENT REMOVAL, TRENCHING ON ROADWAY, INSTALLATION OF PIPE
TOTAL PROJECT AREA: 3.78 ACRES
TOTAL AREA TO BE DISTURBED: 2.68 ACRES
WEIGHTED RUNOFF COEFFICIENT (AFTER CONSTRUCTION): 0.95
EXISTING CONDITION OF SOIL AND VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER: FULLY DEVELOPED RESIDENTIAL AREA
NAME OF RECEIVING WATERS: RIO GRANDE

ENDANGERED SPECIES:
HAS THE FOLLOWING ENDANGERED SPECIES--SEE LIST
HAS NO ENDANGERED SPECIES

HISTORIC PROPERTIES AND PLACES:
OWNER/OPERATOR MUST COMPLY WITH APPLICABLE STATE, TRIBAL, AND LOCAL LAWS CONCERNING THE PROTECTION OF HISTORIC PROPERTIES AND PLACES.

II. SOURCES OF POLLUTION

A. CONTRACTOR MUST IDENTIFY ALL POTENTIAL SOURCES OF POLLUTION THAT MAY AFFECT STORM WATER RUNOFF.
PORTABLE RESTROOMS
FUEL TANKS
STAGING AREA
WASTE CONTAINERS
CONCRETE CURE
PAINT
NONE
OTHER:
SEQUENCE OF CONSTRUCTION ACTIVITIES AND SCHEDULE OF IMPLEMENTATION:
MAJOR ACTIVITY (REF: CGP 3.4A) ESTIMATED DATE BMP IMPLEMENTATION FORECAST WEATHER
OPERATOR RESPONSIBLE FOR CONTROL MEASURE IMPLEMENTATION:
OPERATOR TO RECORD IF AND WHEN CONSTRUCTION TEMPORARILY OR PERMANENTLY CEASES.

B. POLLUTANT SOURCES OTHER THAN CONSTRUCTION ACTIVITIES:
CONCRETE PLANT
ASPHALT PLANT
INDUSTRIAL ACTIVITY
NONE
OTHER:
C. ALLOWABLE SOURCE OF NON-STORM WATER DISCHARGE MANAGEMENT:
NON-STORM WATER DISCHARGES TO BE ELIMINATED OR REDUCED TO THE EXTENT FEASIBLE:
DISCHARGES FROM FIRE-FIGHTING ACTIVITIES.
FIRE HYDRANT FLUSHING.
WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED.
WATER USED TO CONTROL DUST IN ACCORDANCE WITH SUBPART 3.4.G.
POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHING.
ROUTINE EXTERNAL BUILDING WASH DOWN THAT DOES NOT USE DETERGENTS.
PAVEMENT WASH WATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILLED MATERIAL HAS BEEN REMOVED) AND WHERE DETERGENTS ARE NOT USED.
UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE.
UNCONTAMINATED GROUND WATER OR SPRING WATER.
FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS.
UNCONTAMINATED EXCAVATION DEWATERING.
LANDSCAPE IRRIGATION.

POLLUTION PREVENTION MEASURES FOR NON-STORM WATER DISCHARGES SHALL INCLUDE:
TEMPORARY DESILTING BERMS
TEMPORARY SILT FENCES
TEMPORARY STILLING BASIN

III. BEST MANAGEMENT PRACTICE (BMPs)

Table with columns for Erosion & Sediment Control Stabilization Practices, Structural Control Practices, and Other. Rows include items like Temporary Seeding, Permanent Planting, Mulching, Soil Retention Blanket, Buffer Zones, Preservation of Natural Resources, etc.

IV. INSPECTIONS

- 1. STRUCTURAL MEASURES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT IN EFFECTIVE OPERATING CONDITION.
2. DOCUMENTATION OF MAINTENANCE ACTIVITIES INCLUDING FREQUENCY, LOT DESIGNATION, INSPECTION OF STRUCTURAL CONTROLS, MATERIAL STORAGE AREAS VEHICLES ENTRANCE AND EXISTS: ACTIONS TAKEN AND INSPECTORS NAME.
3. CONSTRUCTION SITE NOTICE WILL BE MAINTAINED ON SITE
4. COPY OF SWPPP SHALL BE KEPT ON SITE
5. PERIMETER MUST RETAIN THE SWPS NOI AND INSPECTION LOG FOR A MINIMUM OF 3 YEARS FROM THE TERMINATION AND FINAL STABILIZATION OF PROJECT.

C. WASTE MATERIALS:
ALL WASTE MATERIALS, INCLUDING CONSTRUCTION DEBRIS, SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. NO CONSTRUCTION WASTE MATERIAL SHALL BE BURIED ON SITE. THE TRANSIT DUMPSTER SHALL COMPLY WITH ORDINANCE 18.52.010 (ENCLOSURE & REMOVAL OF WASTE MATERIALS DURING CONSTRUCTION), THE DUMPSTER SHALL BE EMPTIED AS NECESSARY OR AS REQUIRED BY ORDINANCE 9.04 (SOLID WASTE MANAGEMENT) AND THE TRASH SHALL BE HAULED TO A LICENSED LANDFILL.
D. HAZARDOUS WASTE:
AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES SHALL BE CONSIDERED HAZARDOUS: PAINT, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SPILL STABILIZATION, CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION AND CONTACT THE FIRE DEPARTMENT AND TCEQ.

E. SANITARY WASTE:
ALL SANITARY WASTE SHALL BE COLLECTED FROM THE CONSTRUCTION PORTABLE UNITS AS NECESSARY OR AS REQUIRED, CHAPTER 18.08 (BUILDING CODE), BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. ALL WASTE MATERIAL DISPOSAL SHALL BE THE RESPONSIBILITY OF THE SANITARY CONTRACTOR.

F. SPILL PREVENTION:
THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURES OF MATERIALS TO STORM WATER RUNOFF.
1. GOOD HOUSEKEEPING
A. STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE JOB
B. NEATLY STORE MATERIALS ON-SITE IN AN ORDERLY MANNER
C. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER
D. DO NOT MIX SUBSTANCES WITH ONE ANOTHER, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER
E. USE ENTIRE CONTENTS OF A PRODUCT BEFORE DISPOSING OF THE CONTAINER
F. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR PROPER USE AND DISPOSAL.

2. HAZARDOUS PRODUCTS:
PRACTICES USED TO REDUCE RISKS:
A. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER IF AT ALL POSSIBLE;
B. RETAIN ORIGINAL LABELS, PRODUCT INFORMATION AND MATERIAL SAFETY DATA SHEETS (MSDS);
C. DISPOSE SURPLUS PRODUCT IN ACCORDANCE WITH MANUFACTURER'S OR LOCAL & STATE RECOMMENDED METHODS
3. PETROLEUM PRODUCTS:
ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. WHEN FLUIDS ARE CHANGED, THE REMOVED FLUIDS AND FILTERS MUST BE DISPOSED OF PROPERLY. TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.

G. SPILL CONTROL PRACTICES:
A. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES.
B. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE;
C. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY;
D. SPILL AREA SHALL BE WELL VENTILATED AND APPROPRIATE CLOTHING SHALL BE WORN;
E. ANY SPILL SHALL BE REPORTED TO THE APPROPRIATE GOVERNMENTAL AGENCY;
F. MEASURES SHALL BE TAKEN TO PREVENT A SPILL FROM REOCCURRING.

H. REMARKS:
DISPOSAL (FILL) AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, WATERBODY OR STREAMBED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEANED AS SOON AS PRACTICABLE OF TEMPORARY EMBANKMENT, TEMPORARY BRIDGES, MATTING, FALSE WORK, PILING DEBRIS OR OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT A PART OF THE FINISHED WORK.

I. OFF-SITE VEHICLE TRACKING:
IN ADDITION TO THE STABILIZED CONSTRUCTION ENTRANCES, THE FOLLOWING MEASURES SHALL BE OBSERVED DURING CONSTRUCTION:
HAUL ROADS SHALL BE DAMPENED FOR DUST CONTROL.
LOADED HAUL TRUCKS SHALL BE COVERED WITH TARP/AULIN
EXCESS DIRT ON ROAD SHALL BE REMOVED DAILY
STABILIZED CONSTRUCTION ENTRANCE
OTHER:
J. VELOCITY DISSIPATION DEVICES MUST BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL TO PROVIDE A NON-EROSIVE FLOW VELOCITY FROM THE STRUCTURE TO A WATER COURSE SO THAT THE NATURAL PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED (E.G., NO SIGNIFICANT CHANGES IN THE HYDROLOGICAL REGIME OF THE RECEIVING WATER).

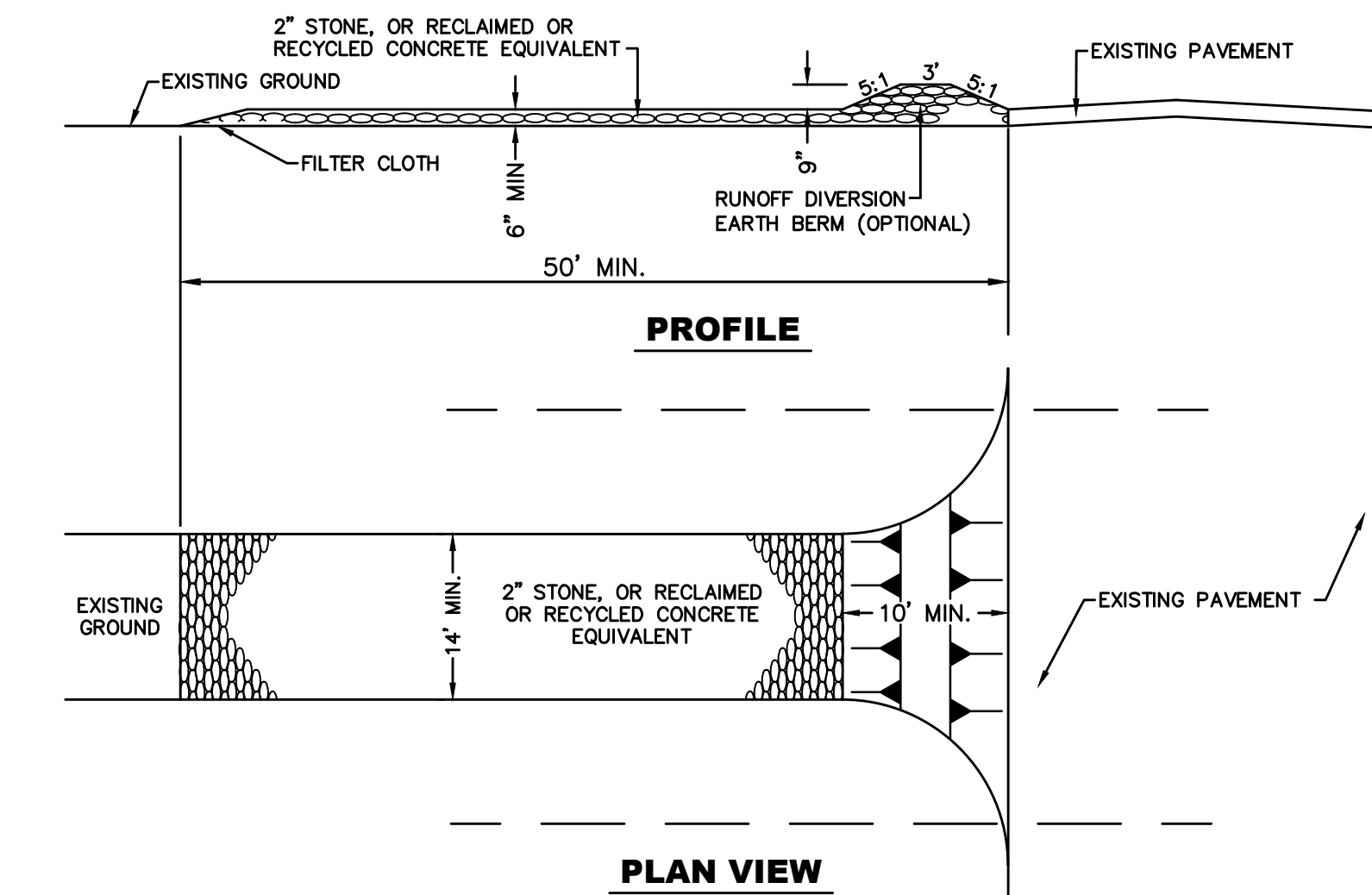
K. ALL CONTROL MEASURES MUST BE PROPERLY SELECTED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH ANY RELEVANT MANUFACTURER SPECIFICATIONS AND GOOD ENGINEERING PRACTICES. IF PERIODIC INSPECTIONS OR OTHER INFORMATION INDICATES A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE OPERATOR MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS AS SOON AS PRACTICABLE.
L. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.
M. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES (E.G. SCREENING OUTFALLS, PICKUP DAILY, ETC.)
N. EXCEPT AS PROVIDED BELOW, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

- 1. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
2. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
3. IN ARID, SEMIARID, AND DROUGHT-STRIKEN AREAS WHERE INITIATING PERENNIAL VEGETATIVE STABILIZATION MEASURES IS NOT POSSIBLE WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, FINAL VEGETATIVE STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.

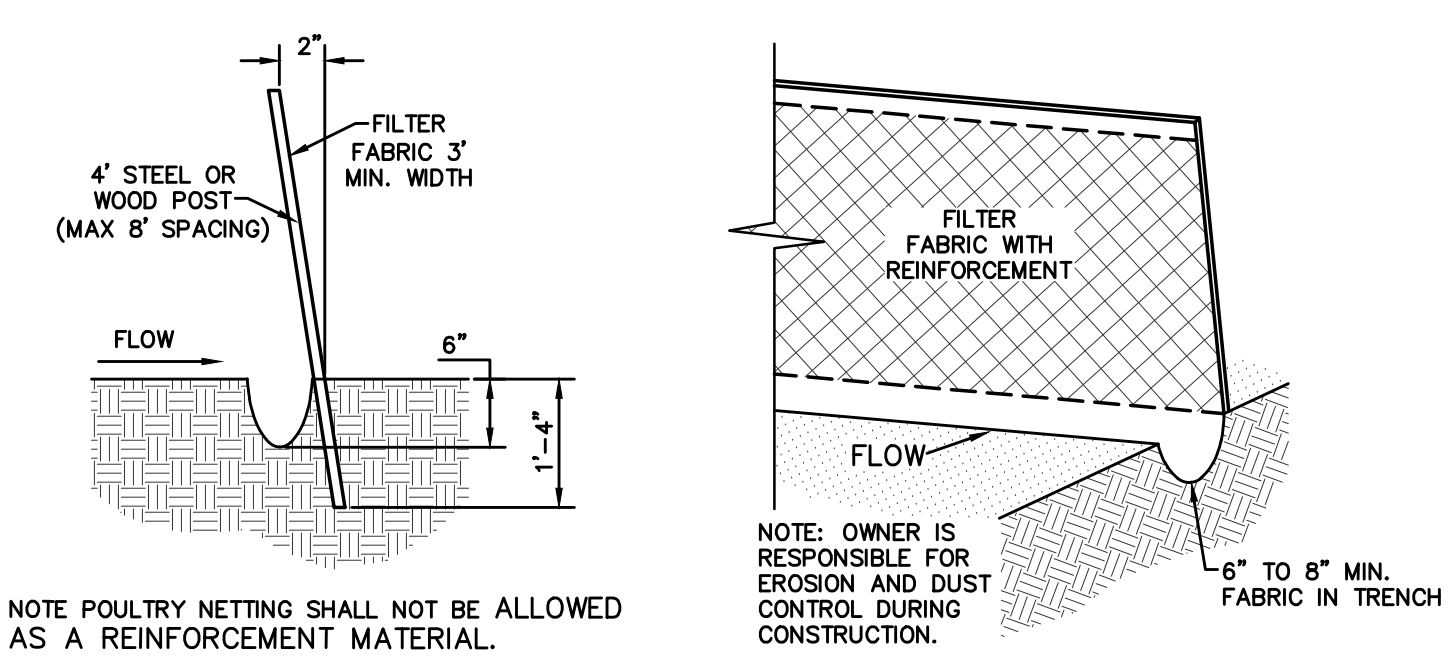
SUBCONTRACTOR-OPERATOR CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT IT IS MY RESPONSIBILITY TO COMPLY WITH ALL APPLICABLE TERMS AND CONDITIONS OF THIS PERMIT AS IT RELATES TO THE CONSTRUCTION ACTIVITIES ON THE AREA(S) OF THE PROJECT SITE IDENTIFIED AS HAVING CONTROL, INCLUDING PROTECTION OF ENDANGERED SPECIES, CRITICAL HABITAT, HISTORIC PROPERTIES, IMPLEMENTATION OF BEST MANAGEMENT PRACTICES (BMPs) AND OTHER CONTROLS REQUIRED BY THE SWPPP. I WILL ENSURE EITHER DIRECTLY OR THROUGH COORDINATION WITH OTHER PERMITEES, THAT MY ACTIVITIES DO NOT RENDER ANOTHER PARTY'S POLLUTION CONTROL INEFFECTIVE. I WILL EITHER IMPLEMENT MY PORTION OF THIS SWPPP OR DEVELOP AND IMPLEMENT MY OWN SWPPP.

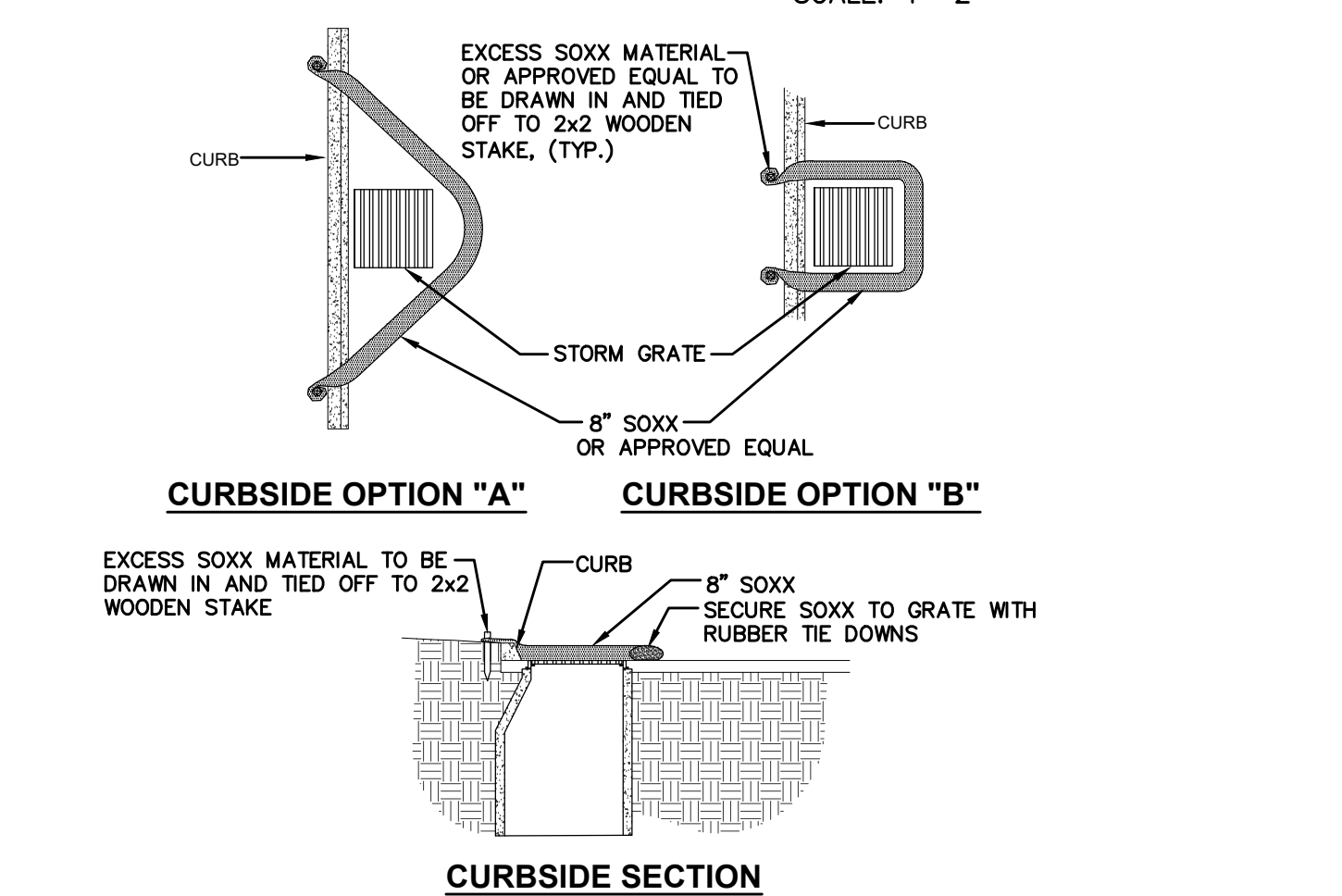
SIGNED: NAME: TITLE: COMPANY: ADDRESS: TELEPHONE: DATE: AREA(S) OF SITE WITH CONTROL:



TEMPORARY STABILIZED CONSTRUCTION ENTRANCE SCALE: 1"=10'



SEDIMENT CONTROL FENCE SCALE: 1"=2'



CURBSIDE SECTION SCALE: N.T.S.

INLET PROTECTION DETAIL

SCALE: N.T.S.

V. POSTING REQUIREMENTS

- A. OPERATOR SHALL POST COPY OF PERMIT, SIGNED AND CERTIFIED NOTICE OF INTENT (NOI) THAT WAS SUBMITTED TO EPA IN CONJUNCTION WITH APPROVED SWPPP.
B. UPON RECEIPT, A COPY OF THE LETTER FROM THE EPA STORM WATER NOTICE PROCESSING CENTER NOTIFYING OF THEIR RECEIPT OF THE ADMINISTRATIVELY COMPLETE NOI MUST ALSO BE INCLUDED AS A COMPONENT OF THIS SWPPP.
C. THE OPERATOR IS RESPONSIBLE FOR UNDERSTANDING, COMPLYING AND IMPLEMENTING THE LOCAL, STATE AND FEDERAL PERMIT REQUIREMENTS OF THE STORM WATER DISCHARGE ELIMINATION SYSTEM. STATE PERMIT LANGUAGE SHALL BE AVAILABLE WITH THIS SWPPP.
D. IT IS THE RESPONSIBILITY OF THE OPERATOR TO SUBMIT A COMPLETE AND ACCURATE NOTICE OF TERMINATION (N.O.T.). SUBMIT A N.O.T. AFTER ONE OR MORE OF THE FOLLOWING CONDITIONS HAVE BEEN MET:
1. FINAL STABILIZATION HAS BEEN ACHIEVED ON ALL PORTIONS OF THE SITE FOR WHICH YOU ARE RESPONSIBLE;
2. ANOTHER OPERATOR HAS ASSUMED CONTROL ACCORDING TO APPENDIX G, SECTION 11.C OF THE NPDES GENERAL PERMIT OVER ALL AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED;
3. COVERAGE UNDER AN INDIVIDUAL OR ALTERNATIVE GENERAL NPDES PERMIT HAS BEEN OBTAINED; OR
4. FOR RESIDENTIAL CONSTRUCTION ONLY, TEMPORARY STABILIZATION HAS BEEN COMPLETED AND THE RESIDENCE HAS BEEN TRANSFERRED TO THE HOMEOWNER.

THE N.O.T. MUST BE SUBMITTED WITHIN 30 DAYS OF ONE OF THE ABOVE CONDITIONS BEING MET. AUTHORIZATION TO DISCHARGE TERMINATES AT MIDNIGHT OF THE DAY THE N.O.T. IS SIGNED.

VI. CERTIFICATIONS

OWNER CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OWNER: SIGNED: OWNER: NAME: TITLE: DATE:

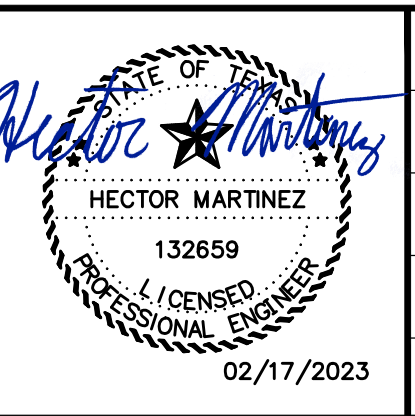
OPERATOR(S) CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES OF THE AREA(S) OF THE PROJECT SITE IDENTIFIED IN THIS CERTIFICATION AS HAVING CONTROL OVER.

SIGNED: COMPANY: NAME: ADDRESS: TITLE: TELEPHONE: DATE: AREA(S) OF SITE WITH CONTROL:

Table with columns: REV, DATE, BY, DESCRIPTION. Contains revision history for the drawing.

Table with columns: UTILITY LOCATOR SERVICES. Lists various utility companies and their contact information.



DESIGNED: H.M. DRAWN: I.C., I.V. CHECKED: S.J.A. APPROVED: H.M. DATE: 02/17/2023



Table with columns: PROJECT, SHEET TITLE, JOB NO., SEQUENCE NO., SHEET NO. Project: PECOS STREET WATER AND SEWER LINE IMPROVEMENTS. SHEET TITLE: SWPPP NOTES. JOB NO.: 05970-053. SEQUENCE NO.: C19. SHEET NO.: 19 OF 19.