

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.	
6		1050	
STATE	STATE DIST.	COUNTY	
TEXAS	9	McLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246	IH 35

VOLUME 6

STATE OF TEXAS DEPARTMENT OF TRANSPORTATION

FUNCTIONAL CLASS: URBAN INTERSTATE
DESIGN SPEED: 60 MPH - IH 35 MAINLANES
45 MPH - RAMP
40 MPH - BYPASS RAMP
40 MPH - FRONTAGE ROADS
45 MPH - INTERSECTING STREETS - NEW RD, 18TH, 17TH
30 MPH - INTERSECTING STREETS - IRVING LEE
20 MPH - VALLEY MILLS DDI
15 MPH - U-TURNS

YEAR	ADT
2013	131,800
2033	187,400

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1050	TITLE SHEET
1051-1055	INDEX OF SHEETS

PLANS OF PROPOSED STATE HIGHWAY IMPROVEMENT

FEDERAL AID PROJECT:
CSJ: 0015-01-246
**McLENNAN COUNTY
IH 35**

LIMITS: FROM SOUTH STATE LOOP 340 TO 12TH ST
ROADWAY = 14,587.00 FT = 2.763 MI
BRIDGE = 1,063.00 FT = 0.201 MI
NET LENGTH OF PROJECT = 15,650.00 FT = 2.964 MI

RAS INSPECTION REQUIRED

TDLR NO. EABPRJA _____

FOR THE CONSTRUCTION OF THE WIDENING OF A FREEWAY FACILITY
CONSISTING OF WIDENING, GRADING, STRUCTURES & SURFACES.



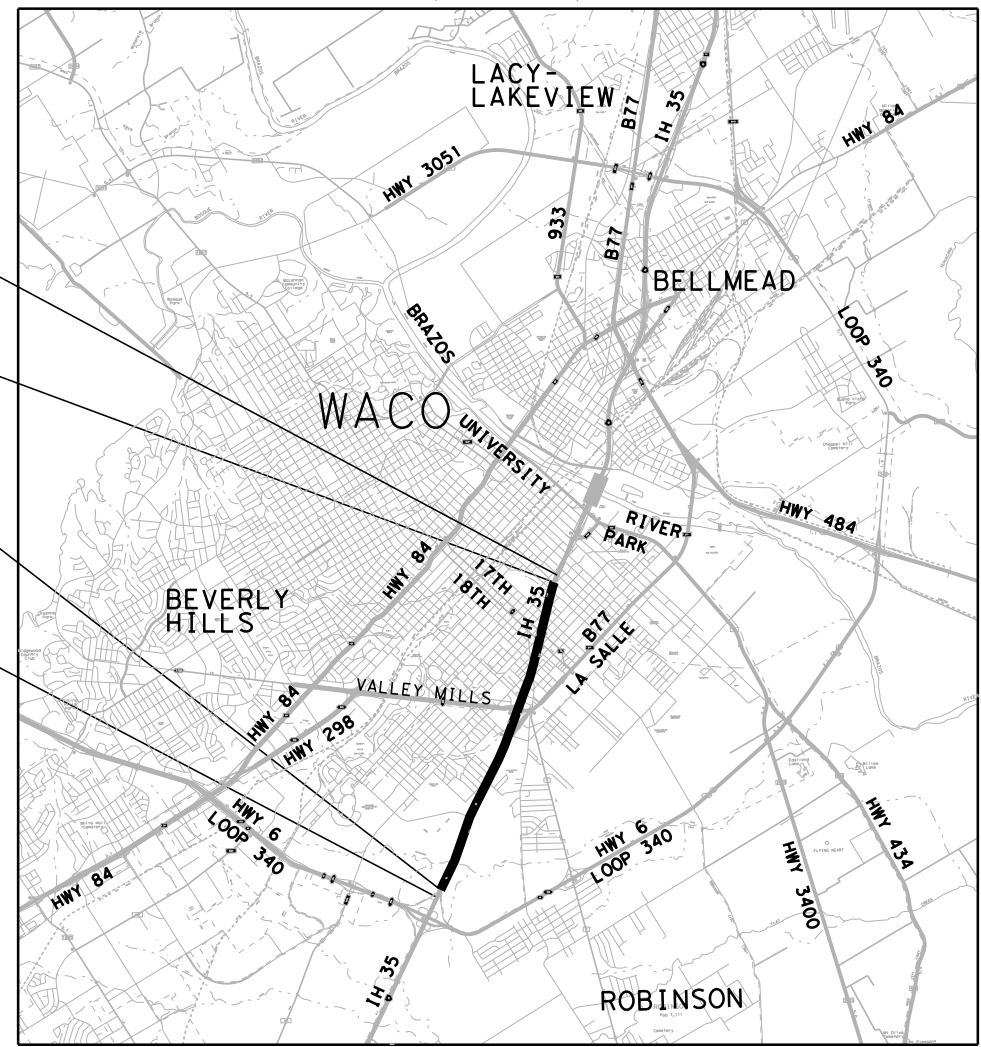
NOT TO SCALE

END CONSTRUCTION
CSJ: 0015-01-243
☉ IH 35 STA 167+00.00

END PROJECT
END CSJ: 0015-01-246
BEGIN CSJ: 0015-01-243
☉ IH 35 STA 156+50.00
REF. MRKR. 334+0.485

BEGIN PROJECT
CSJ: 0015-01-246
EQUATION:
☉ IH 35 STA 935+11.96 (BK) =
☉ IH 35 STA 0+00.00 (AH)

BEGIN CONSTRUCTION
CSJ: 0015-01-246
☉ IH 35 STA 922+25.00



EXCEPTIONS: NONE
EQUATIONS: ☉ IH 35 STA 935+11.96 (BK) = ☉ IH 35 STA 0+00.00 (AH)
RAILROAD CROSSINGS: NONE

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION,
NOVEMBER 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS,
SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL
FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, OCTOBER 2023).

HNTB HNTB Corporation
The HNTB Companies
Engineers Architects Planners
Firm Registration Number F-420

SUBMITTED FOR LETTING
PROJECT MANAGER

Texas Department of Transportation
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RECOMMENDED FOR LETTING
AREA ENGINEER

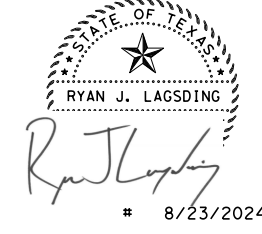
RECOMMENDED FOR LETTING
DIRECTOR OF TRANSPORTATION PLANNING & DEVELOPMENT

APPROVED FOR LETTING
DISTRICT ENGINEER

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COUNTY: McLENNAN PROJ. NO. _____
HWY. NO. IH 35 LETTING DATE 09/03/2024
DATE ACCEPTED _____



024



8/23/2024

SHEET NO DESCRIPTION

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SHEET NO DESCRIPTION



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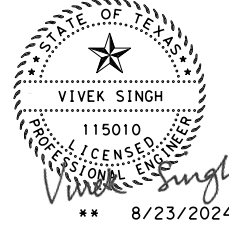
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 <p>HNTB Corporation The HNTB Companies Engineers Architects Planners Firm Registration Number F-420</p>			
<p>IH 35 FROM S LP 340 TO 12TH ST</p>			
<p>INDEX OF SHEETS</p>			
<p>SHEET 1 OF 5</p>			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
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STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246	IH 35



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** 1046	CGT-PCU
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Firm Registration Number F-420

IH 35 FROM S LP 340 TO 12TH ST

INDEX OF SHEETS

SHEET 2 OF 5

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1052	
STATE	DIST.	COUNTY	
TEXAS	WACO	McLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246	IH 35

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SHEET NO	DESCRIPTION
VOLUME VI	
VI. UTILITIES	
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VOLUME VII

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1174	ESTIMATED QUANTITIES IH 35 SB & NB OVERPASS AT NEW ROAD
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1205	BEARING PAD TAPER REPORT IH 35 SB & NB OVERPASS AT IRVING LEE/PRIMROSE
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1207	ABUTMENT 4 IH 35 SB OVERPASS AT IRVING LEE/PRIMROSE
1208	ABUTMENT DETAILS IH 35 SB OVERPASS AT IRVING LEE/PRIMROSE
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1210	BENT 3 IH 35 SB OVERPASS AT IRVING LEE/PRIMROSE
1211-1212	BENT DETAILS IH 35 SB OVERPASS AT IRVING LEE/PRIMROSE
1213	BEAM LAYOUT IH 35 SB OVERPASS AT IRVING LEE/PRIMROSE
1214-1215	265.000' PRESTRESSED CONCRETE U-BEAM UNIT IH 35 SB OVERPASS AT IRVING LEE/PRIMROSE
1216	ABUTMENT 1 IH 35 NB OVERPASS AT IRVING LEE/PRIMROSE
1217	ABUTMENT 4 IH 35 NB OVERPASS AT IRVING LEE/PRIMROSE
1218	ABUTMENT DETAILS IH 35 NB OVERPASS AT IRVING LEE/PRIMROSE
1219	BENT 2 IH 35 NB OVERPASS AT IRVING LEE/PRIMROSE
1220	BENT 3 IH 35 NB OVERPASS AT IRVING LEE/PRIMROSE
1221-1222	BENT DETAILS IH 35 NB OVERPASS AT IRVING LEE/PRIMROSE
1223	BEAM LAYOUT IH 35 NB OVERPASS AT IRVING LEE/PRIMROSE
1224-1225	265.000' PRESTRESSED CONCRETE U-BEAM UNIT IH 35 NB OVERPASS AT IRVING LEE/PRIMROSE
1226	PRESTRESSED CONCRETE U-BEAMS (DESIGN DATA)
IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS DRIVE)	
1227	BRIDGE LAYOUT IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS DRIVE)
1228	TYPICAL SECTIONS IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS DRIVE)
1229	TEST HOLE DATA IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS DRIVE)
1230	ESTIMATED QUANTITIES IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS DRIVE)
1231	BEARING SEAT ELEVATIONS IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS DRIVE)
1232	BEARING PAD TAPER REPORT IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS DRIVE)
1233	ABUTMENT 1 IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS DRIVE)
1234	ABUTMENT 5 IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS DRIVE)
1235	ABUTMENT DETAILS IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS DRIVE)
1236	BENT 2 IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS DRIVE)



HNTB HNTB Corporation
 The HNTB Companies
 Engineers Architects Planners
 Firm Registration Number F-420

IH 35 FROM S LP 340 TO 12TH ST

INDEX OF SHEETS

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6	SEE TITLE SHEET	1053	
STATE	DIST.	COUNTY	
TEXAS	WACO	McLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246	IH 35

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SHEET NO	DESCRIPTION
1237	BENT 3 IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS DRIVE)
1238	BENT 4 IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS DRIVE)
1239-1241	BENT DETAILS IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS DRIVE)
1242	BEAM LAYOUT SPAN 1 IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS DRIVE)
1243-1244	34.500' PRESTRESSED CONCRETE U-BEAM UNIT IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS DRIVE)
1245	BEAM LAYOUT SPANS 2 & 3 IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS)
1246-1247	188.000' PRESTRESSED CONCRETE U-BEAM UNIT IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS)
1248	BEAM LAYOUT SPAN 4 IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS)
1249-1250	72.500' PRESTRESSED CONCRETE U-BEAM UNIT IH 35 UNDERPASS AT LP 396 WB (VALLEY MILLS)
1251	PRESTRESSED CONCRETE U-BEAMS (DESIGN DATA)
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1254	TEST HOLE DATA IH 35 UNDERPASS AT LP 396 EB (VALLEY MILLS DRIVE)
1255	ESTIMATED QUANTITIES IH 35 UNDERPASS AT LP 396 EB (VALLEY MILLS DRIVE)
1256	BEARING SEAT ELEVATIONS IH 35 UNDERPASS AT LP 396 EB (VALLEY MILLS DRIVE)
1257	BEARING PAD TAPER REPORT IH 35 UNDERPASS AT LP 396 EB (VALLEY MILLS DRIVE)
1258	ABUTMENT 1 IH 35 UNDERPASS AT LP 396 EB (VALLEY MILLS DRIVE)
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1260	ABUTMENT DETAILS IH 35 UNDERPASS AT LP 396 EB (VALLEY MILLS DRIVE)
1261	BENT 2 IH 35 UNDERPASS AT LP 396 EB (VALLEY MILLS DRIVE)
1262-1263	BENT 2 DETAILS IH 35 UNDERPASS AT LP 396 EB (VALLEY MILLS DRIVE)
1264	BENT 3 IH 35 UNDERPASS AT LP 396 EB (VALLEY MILLS DRIVE)
1265	BENT 4 IH 35 UNDERPASS AT LP 396 EB (VALLEY MILLS DRIVE)
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1268	BEAM LAYOUT SPAN 1 IH 35 UNDERPASS AT LP 396 EB (VALLEY MILLS DRIVE)
1269-1270	34.000' PRESTRESSED CONCRETE U-BEAM UNIT IH 35 UNDERPASS AT LP 396 EB (VALLEY MILLS DRIVE)
1271	BEAM LAYOUT SPANS 2 & 3 IH 35 UNDERPASS AT LP 396 EB (VALLEY MILLS)
1272-1273	185.750' PRESTRESSED CONCRETE U-BEAM UNIT IH 35 UNDERPASS AT LP 396 EB (VALLEY MILLS)
1274	BEAM LAYOUT SPAN 4 IH 35 UNDERPASS AT LP 396 EB (VALLEY MILLS)
1275-1276	71.670' PRESTRESSED CONCRETE U-BEAM UNIT IH 35 UNDERPASS AT LP 396 EB (VALLEY MILLS)
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1278	BRIDGE LAYOUT IH 35 SB OVERPASS AT 18TH STREET
1279	BRIDGE LAYOUT IH 35 NB OVERPASS AT 18TH STREET
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1284	BEARING PAD TAPER REPORT IH 35 SB & NB OVERPASS AT 18TH STREET
1285	ABUTMENT 1 IH 35 SB OVERPASS AT 18TH STREET
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1287	ABUTMENT DETAILS IH 35 SB OVERPASS AT 18TH STREET
1288	BENT 2 IH 35 SB OVERPASS AT 18TH STREET
1289-1290	BENT DETAILS IH 35 SB OVERPASS AT 18TH STREET
1291	BEAM LAYOUT IH 35 SB OVERPASS AT 18TH STREET
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1295	ABUTMENT 3 IH 35 NB OVERPASS AT 18TH STREET
1296	ABUTMENT DETAILS IH 35 NB OVERPASS AT 18TH STREET
1297	BENT 2 IH 35 NB OVERPASS AT 18TH STREET
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1300	BEAM LAYOUT IH 35 NB OVERPASS AT 18TH STREET
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1310	BEARING PAD TAPER REPORT IH 35 SB & NB OVERPASS AT 17TH STREET
1311	ABUTMENT 1 IH 35 SB OVERPASS AT 17TH STREET
1312	ABUTMENT 3 IH 35 SB OVERPASS AT 17TH STREET
1313	ABUTMENT DETAILS IH 35 SB OVERPASS AT 17TH STREET
1314	BENT 2 IH 35 SB OVERPASS AT 17TH STREET
1315-1316	BENT DETAILS IH 35 SB OVERPASS AT 17TH STREET
1317	BEAM LAYOUT IH 35 SB OVERPASS AT 17TH STREET
1318-1319	240.000' PRESTRESSED CONCRETE U-BEAM UNIT IH 35 SB OVERPASS AT 17TH STREET
1320	ABUTMENT 1 IH 35 NB OVERPASS AT 17TH STREET
1321	ABUTMENT 3 IH 35 NB OVERPASS AT 17TH STREET

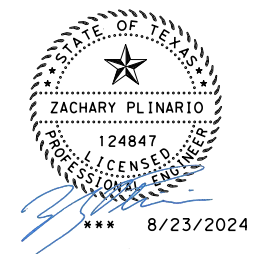
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1322	ABUTMENT DETAILS IH 35 NB OVERPASS AT 17TH STREET
1323	BENT 2 IH 35 NB OVERPASS AT 17TH STREET
1324-1325	BENT DETAILS IH 35 NB OVERPASS AT 17TH STREET
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STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246	IH 35

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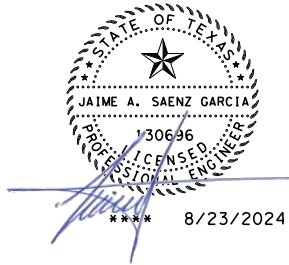
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****	1565-1566	HOSB-Z21
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 Engineers Architects Planners
 Firm Registration Number F-420

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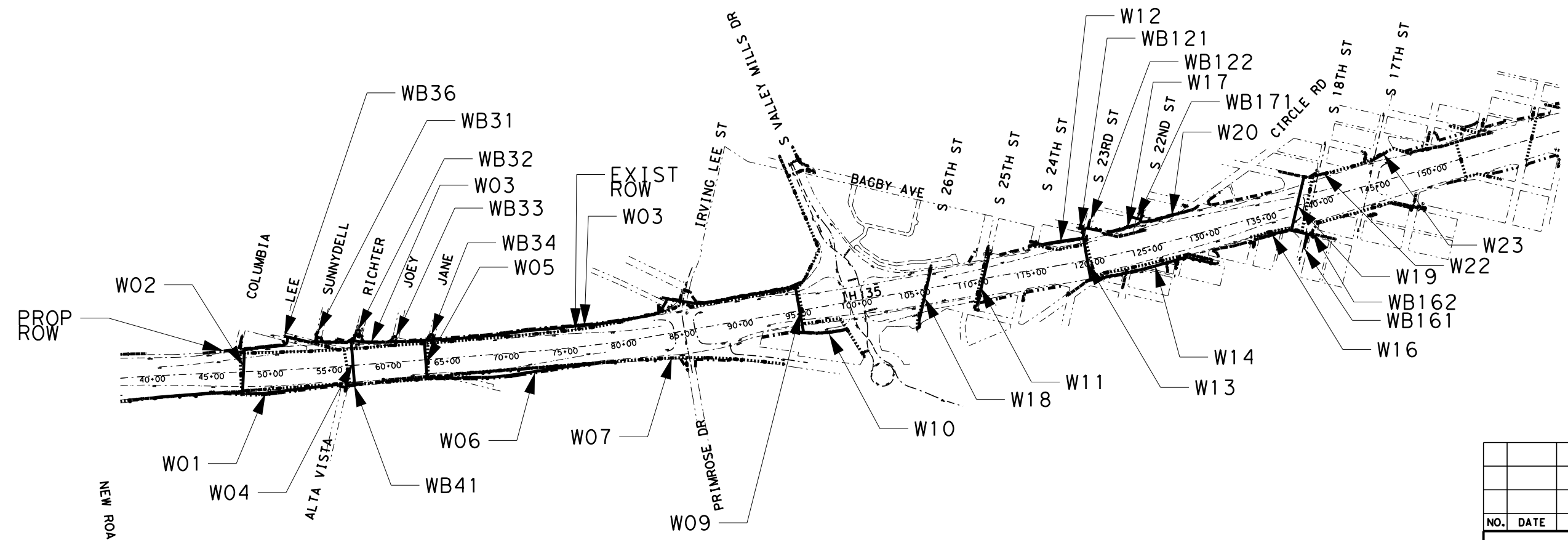
SHEET 5 OF 5

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
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TEXAS	WACO	MCLENNAN	
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0015	01	246	IH 35

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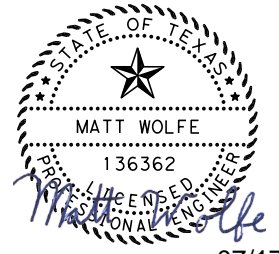
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LEGEND

- | | | | |
|--|-----------------------|--|---------------------|
| | PROP WATER | | HYDRANT |
| | PROP WASTE WATER | | WATER MANHOLE |
| | EXIST ROW | | WATER VALVE |
| | PROP ROW | | WATER METER |
| | ABANDON EXIST UTILITY | | WATER VAULT |
| | EXIST GAS | | WASTE WATER MANHOLE |
| | EXIST PAVEMENT REPAIR | | CLEAN OUT |
| | EXIST WATER | | STORM SEWER DRAIN |
| | | | OUT OF SCOPE |
| | | | END OF LINE |

NO.	DATE	REVISION	APPROVED



07/17/2024



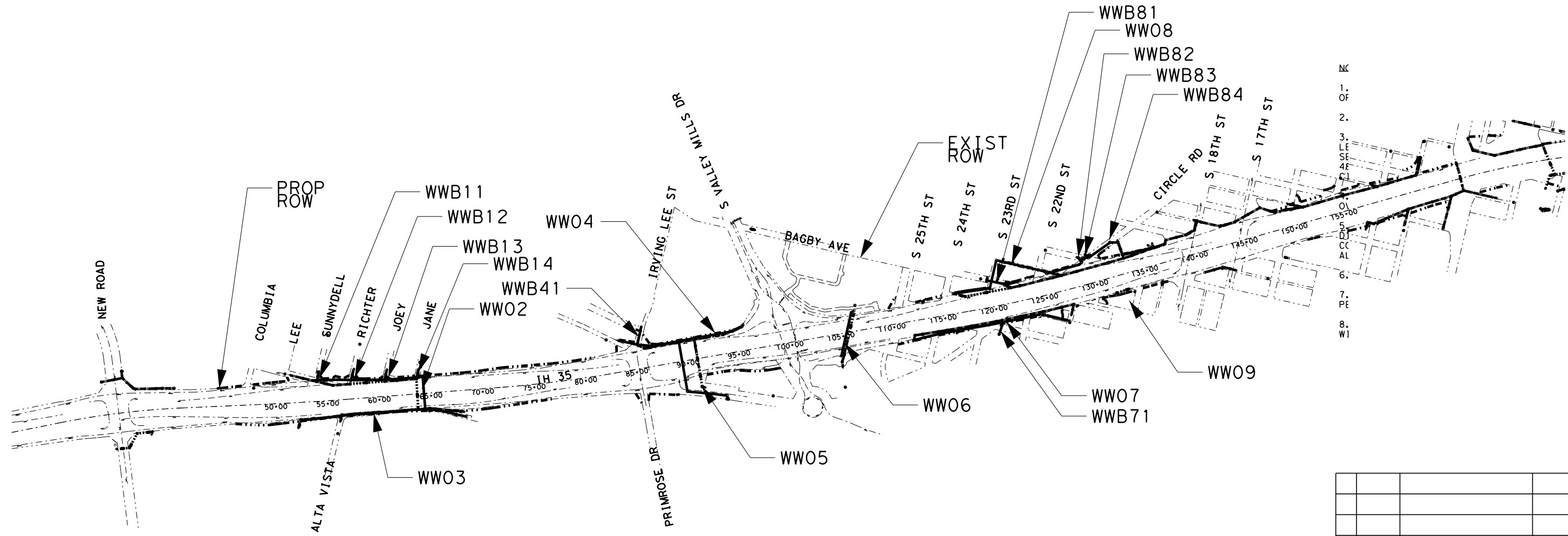
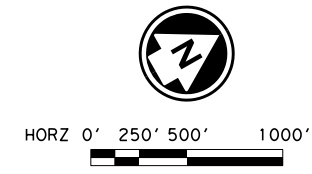
LTRA LINA T. RAMEY & ASSOCIATES, INC.
 3320 Belt Line Rd
 Farmers Branch, Texas 75234
 Firm Registration No. F-782

IH 35 FROM S LP 340 TO 12TH ST

**CITY OF WACO
 WATER RELOCATION
 PROJECT LAYOUT**

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1056	
STATE	DIST.	COUNTY	
TEXAS	WACO	McLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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NC
 1. OF
 2.
 3. LE
 4. SE
 5. CC
 6. AL
 7. PE
 8. WI

LEGEND

	PROP WATER		HYDRANT
	PROP WASTE WATER		WATER MANHOLE
	EXIST ROW		WATER VALVE
	PROP ROW		WATER METER
	ABANDON EXIST UTILITY		WATER VAULT
	EXIST GAS		WASTE WATER MANHOLE
	EXIST PAVEMENT REPAIR		CLEAN OUT
	EXIST WASTE WATER		STORM SEWER DRAIN
			OUT OF SCOPE
			END OF LINE

NO.	DATE	REVISION	APPROVED

07/17/2024

Texas Department of Transportation
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LTRA LINA T. RAMEY & ASSOCIATES, INC.
 3320 Belt Line Rd
 Farmers Branch, Texas 75234
 Firm Registration No. F-782

IH 35 FROM S LP 340 TO 12TH ST
CITY OF WACO
WASTE WATER RELOCATION
PROJECT LAYOUT

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1057	
STATE	DIST.	COUNTY	
TEXAS	WACO	McLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

TXDOT UTILITY CONSTRUCTION GENERAL NOTES

1. ALL TRAFFIC CONTROL MUST BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (TX MUTCD).
2. LANE CLOSURES (IF REQUIRED) ARE ONLY ALLOWED BETWEEN 9:00 AM AND 3:30 PM MONDAY THROUGH FRIDAY. LANE CLOSURES ARE NOT ALLOWED IN INCLEMENT WEATHER OR IF THE PAVEMENT IS WET OR ICY. PRIOR TO ANY TRAFFIC CONTROL SET UP, CONTRACTOR MUST NOTIFY TXDOT TO OBTAIN APPROVAL.
3. CONTRACTOR MUST CONTACT TXDOT MINIMUM 48 HOURS PRIOR TO ANY WORK ACTIVITY IN THE TXDOT RIGHT-OF-WAY (ROW).
4. FIELD CREWS ARE NOT ALLOWED TO PARK THEIR VEHICLES WITHIN THE TXDOT ROW.
5. TXDOT ROADS MUST BE KEPT CLEAN OF CONSTRUCTION RELATED DIRT AND DEBRIS AT ALL TIMES.
6. ANY OPEN EXCAVATIONS OR EQUIPMENT LEFT OVERNIGHT THAT ARE CLOSER THAN 30 LF FROM THE EDGE OF THE PAVEMENT MUST BE PROTECTED BY CONCRETE TRAFFIC BARRIERS (CTBs), AND SECURED WITH MESH FENCING. EQUIVALENT PERFORMANCE WATER FILLED BARRIERS MAY BE USED IN LIEU OF CTBs ONLY WITH PRIOR TXDOT APPROVAL. BARRIER AND BARRIER TRANSITION TO BE INSTALLED ACCORDING TO TXDOT POLICY.
7. PRIOR TO OPEN CUTTING EXISTING PERMANENT DRIVEWAYS WITHIN TXDOT RIGHT-OF-WAY, THE UTILITY CONTRACTOR WILL COORDINATE THIS CONSTRUCTION ACTIVITY WITH THE ADJACENT PROPERTY OWNERS AND UTILITY COORDINATOR. PROPERTY INGRESS AND EGRESS SHALL BE MAINTAINED AT ALL TIMES. DRIVEWAYS WILL BE RESTORED TO AS GOOD AS THEIR ORIGINAL CONDITION.
8. THE CONTRACTOR IS REQUIRED TO RESTORE THE GRADE TO ITS PRE-CONSTRUCTION CONDITION UNLESS DIRECTED BY TXDOT.
9. CONTRACTOR IS CAUTIONED THAT ONE CALL WILL NOT LOCATE TXDOT'S UTILITY LINES THAT OPERATE TRAFFIC SIGNALS, FLASHING BEACONS, OR STREET LIGHTING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TXDOT FOR LOCATIONS OF SUCH FACILITIES. IF ANY DAMAGE OCCURS TO TXDOT'S FACILITIES, CONTRACTOR MUST CONTACT TXDOT IMMEDIATELY TO COORDINATE REPAIR.
10. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE OR MISSING MONUMENTS, SIGNS, OR RIGHT-OF-WAY MARKERS. REPAIR OF SUCH FACILITIES MUST BE DONE IN A TIMELY MANNER, AND IN ACCORDANCE WITH TXDOT STANDARDS.
11. A TRACER WIRE MUST BE CONCURRENTLY INSTALLED, OR OTHER MEANS SHALL BE PROVIDED FOR DETECTION PURPOSES.
12. EXCESS MATERIALS FROM ANY KIND OF EXCAVATION SHALL BE REMOVED FROM TXDOT ROW AND THE JOB SITE MUST BE CLEANED UP AS SOON AS POSSIBLE TO THE SATISFACTION OF TXDOT.
13. CONTRACTOR SHALL INFORM THEIR FORCES THAT ALL UTILITY INSTALLATIONS AUTHORIZED BY TXDOT ARE SUBJECT TO INSPECTION AND TESTING AS MAY BE DEEMED NECESSARY BY TXDOT TO VERIFY THAT WORK IS DONE IN ACCORDANCE WITH TXDOT REQUIREMENTS AND QUALITY CONTROL. ALL SUPERVISORY PERSONNEL SHALL BE INSTRUCTED TO FURNISH SUCH INFORMATION AND COOPERATION AS MAY BE REQUIRED TO PERFORM SUCH INSPECTIONS.
14. NO CONSTRUCTION EQUIPMENT RELATIVE TO THE APPROVED CONSTRUCTION SHALL BE ALLOWED ON THE ROADWAY OR SHOULDER, UNLESS SPECIFICALLY AUTHORIZED BY TXDOT. ANY AND ALL TEMPORARY TRAFFIC CONTROL MUST BE PRE-APPROVED BY TXDOT. SET UP BY COMPETENT PERSONNEL AND MUST BE IN ACCORDANCE WITH TXMUTCD.
15. ANY TREES AND LANDSCAPE LOCATED ON PRIVATE PROPERTY ARE CONSIDERED PROTECTED. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE TO LANDSCAPE AND VEGETATION ON PRIVATE PROPERTY, AND SHALL RECTIFY THE DAMAGE TO THE SATISFACTION OF THE INVOLVED PROPERTY OWNER.
16. ALL TREE PRUNING, IF REQUIRED, SHALL BE DONE IN ACCORDANCE WITH ANSI 300 STANDARDS. CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PREVENT THE SPREAD OF OAK WILT.

GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR IS REQUIRED BY LAW TO CONTACT THE TEXAS ONE-CALL AND ANY NON-PARTICIPATING AUTHORITY THAT MAY BE IN CONFLICT A MINIMUM OF 48 HOURS BEFORE ANY EXCAVATION CAN TAKE PLACE.
2. CONTRACTOR IS CAUTIONED THAT ONE-CALL LOCATES UTILITIES THAT SUBSCRIBE TO THEIR SERVICE ONLY. CONTRACTOR IS RESPONSIBLE TO CONTACT NOTED UTILITY PROVIDERS IN THE AREA DIRECTLY IF THEY ARE NOT LISTED AS RESPONDING TO ONE-CALL.
3. CONTRACTOR MUST OBTAIN ALL LOCATES PRIOR TO CONSTRUCTION. VERIFY THE LOCATION OF UNDERGROUND UTILITIES AT LEAST 100 LF IN ADVANCE OF ALL PROPOSED UTILITY CROSSINGS, AND ALSO AT LOCATIONS WHERE THE PROPOSED FACILITIES ARE DEPICTED TO RUN PARALLEL TO AND WITHIN EXISTING FACILITIES.
4. EXISTING UTILITY LOCATIONS SHOWN ON PLANS ARE BASED ON S.U.E. AND RECORD INFORMATION, AND MAY BE NEITHER ACCURATE NOR COMPLETE. CONTRACTOR IS RESPONSIBLE TO PHYSICALLY VERIFY ALL EXISTING UTILITY LOCATIONS AND OTHER OBSTRUCTIONS IN PROPOSED UTILITIES PATH, INCLUDING BUT NOT LIMITED TO THOSE UTILITIES THAT RUN PARALLEL TO THE PROPOSED UTILITY ASSIGNMENT.
5. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE TO THE PUBLIC IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO EXISTING UTILITIES, PAVEMENT, ROAD, CURB AND GUTTER, SIDEWALK, AND GRADE.
6. INSTALLATION MUST MEET TXDOT UTILITY ACCOMMODATION RULES (UAR), AS WELL AS BE IN ACCORDANCE WITH UTILITY OWNER STANDARDS, METHODS, AND PRACTICES.
7. ALL LABOR TO BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE AND LATEST OSHA STANDARDS, INCLUDING BUT NOT LIMITED TO TRENCH SAFETY, AND TXDOT SAFETY STANDARDS.
8. CONTRACTOR SHALL PLACE UTILITY, BOTH HORIZONTALLY AND VERTICALLY AS SPECIFIED. ANY PROPOSED FIELD CHANGES MUST BE APPROVED BY THE ENGINEER AND TXDOT PRIOR TO MAKING SUCH CHANGE.
9. CONTRACTOR IS SPECIFICALLY CAUTIONED THAT VERTICAL ALIGNMENT HAS BEEN DESIGNED TO MEET THE UAR FOLLOWING HIGHWAY CONSTRUCTION GRADE ADJUSTMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PLACE THE PROPOSED UTILITY AT OR BELOW SPECIFIED ELEVATION. BEFORE THE CONTRACTOR ELECTS TO INSTALL UTILITY BELOW SPECIFIED ELEVATION, HE SHOULD ENSURE THAT THERE ARE NO OBSTRUCTIONS TO DOING SO.

11. PRIOR TO CROSSING EXISTING PIPELINES, CONTRACTOR MUST CONTACT APPROPRIATE PIPELINE INSPECTOR.
12. ALL UNDERGROUND UTILITY CROSSINGS MUST BE ACCOMPLISHED WITH A MINIMUM OF 12" CLEARANCE, MEASURED FROM THE EDGE OF THE INVOLVED UTILITIES.
13. CONTRACTOR MUST PROTECT ALL OVERHEAD PLANTS WHEN WORKING IN ITS VICINITY. CONTRACTOR MUST COMPLY WITH RELATED OVERHEAD UTILITY OWNER'S POLICY ON POLE SUPPORTING.
14. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE RESULTING FROM HIS METHOD IN CONDUCTING WORK.
15. TRENCH BACKFILL MUST BE COMPACTED TO COMPLY WITH TXDOT STANDARD SPECIFICATION ITEM 400. ANY AND ALL SETTLEMENT OF EROSION SHALL BE REPAIRED BY THE CONTRACTOR UNTIL FULL STABILITY IS ACHIEVED.
16. WHEN STRINGING CASING OUTSIDE OF THE LIMITS OF CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE AFFECTED PROPERTY OWNERS TO OBTAIN THEIR PERMISSION PRIOR TO UTILIZING THEIR PROPERTY FOR STRINGING CASING, OR FOR ANY OTHER CONSTRUCTION RELATED ACTIVITY.
17. CONTRACTOR IS RESPONSIBLE FOR SEEKING AN APPROPRIATE STAGING AREA, AND OBTAINING ANY NECESSARY AGREEMENTS AND/OR PERMITS RELEVANT TO IT AND MUST SUBMIT PLAN OR PERMITS TO TXDOT. ANY AND ALL EQUIPMENT AND/OR MATERIAL LEFT IN THE TXDOT ROW OVERNIGHT MUST BE SECURED AND PROTECTED IN ACCORDANCE WITH TXDOT STANDARDS.
18. CONTRACTOR SHALL AVOID MANEUVERING MACHINERY AND EQUIPMENT ON PAVED SURFACES. IF IT BECOMES NECESSARY, CONTRACTOR SHALL TAKE NECESSARY MEASURES TO ENSURE NO DAMAGE OCCURS TO THE PAVEMENT. CONTRACTOR IS RESPONSIBLE TO REPAIR ANY DAMAGE HE CAUSES TO THE SATISFACTION OF TXDOT.
19. CONTRACTOR SHALL OPEN ONLY AS MUCH TRENCH AS HE CAN BACKFILL DAILY, IN ACCORDANCE WITH TRENCH BACKFILL SPECIFICATIONS. CONTRACTOR SHALL NOT LEAVE ANY TRENCH OPEN OVERNIGHT. IF IT BECOMES NECESSARY TO LEAVE TRENCH OPEN OVERNIGHT IT SHOULD BE PROTECTED WITH CTBs OR APPROVED EQUIVALENT.
20. CONTRACTOR SHALL KEEP ALL APPLICABLE AND NECESSARY PERMITS ON SITE, AND BE READY TO PRODUCE THEM AT THE REQUEST OF APPROPRIATE AUTHORITIES.

ENVIRONMENTAL NOTES:

1. CONTRACTOR MUST CONFORM TO TXDOT'S ENVIRONMENTAL PLAN PERMIT, ISSUES AND COMMITMENT (EPIC) SHEETS AND APPROVED COMPREHENSIVE ENVIRONMENTAL PROTECTION PLANS FOR ENVIRONMENTAL PROTECTION INFORMATION.
2. CONTAMINATED MATERIALS COULD EXIST WITHIN THE WORK AREAS. CONTRACTOR SHALL REFER TO THE COMPREHENSIVE ENVIRONMENTAL PROTECTION PLAN FOR POTENTIAL CONTAMINATION AREAS AND PROCEDURES. CONTRACTOR SHALL NOT DISPOSE OF WASTE SOIL OR GROUNDWATER WITHOUT THE WRITTEN APPROVAL FROM THE AGL ENVIRONMENTAL TEAM. IF SUSPECTED CONTAMINATED MATERIAL AND GROUNDWATER IS ENCOUNTERED, CONTRACTOR SHALL IMMEDIATELY CONTACT TXDOT AND UTILITY COORDINATOR.
3. TREE PROTECTION IS ONLY NECESSARY TO ENSURE PROTECTION OF TREES ON PRIVATE PROPERTY.
4. CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL WITHOUT NOTIFYING TXDOT WITHIN 48 HOURS OF SOIL DISPOSAL.
5. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO START OF CONSTRUCTION, AND MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
6. TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED USING BEST MANAGEMENT PRACTICES AND IN A MANNER TO PREVENT CONSTRUCTION RELATED SEDIMENT TO FLOW DOWNSTREAM INTO WATERWAYS. DEFICIENCY IN SW3P MUST BE REPAIRED PRIOR TO END OF WORKDAY.
7. TEMPORARY EROSION CONTROLS SHALL BE INSPECTED AND MAINTAINED SUCH TO ENSURE THEIR INTENDED PERFORMANCE.
8. ALL BORE PITS MUST BE PROTECTED WITH SILT FENCING ON THE DOWNSLOPE SIDE TO PREVENT BORING MUD RUNOFF.
9. ANY BORING MUD DISCHARGE MUST BE PROMPTLY CONTAINED AND CLEANED UP AS SOON AS PRACTICAL, BUT NOT LATER THAN COMPLETION OF THE RELEVANT BORE OPERATION.
10. CONTRACTOR SHALL HAVE A VACUUM TRUCK AVAILABLE AROUND BORE RIGS AT ALL TIMES TO HELP CONTAIN ANY MUD SPILLS PROMPTLY.
11. GRADE RESTORATION SHALL FOLLOW ACTIVE CONSTRUCTION, AND SHALL NOT LAG BEHIND ACTIVE CONSTRUCTION MORE THAN 48 HOURS.
12. NO PERMANENT EROSION CONTROLS SHALL BE IMPLEMENTED AS PART OF THIS PROJECT WITHIN THE LIMITS OF THE CONSTRUCTION (LOC). HOWEVER, WHERE CONSTRUCTION IS TO TAKE PLACE OUTSIDE OF LOC, ALL APPLICABLE RESTORATION INCLUDING REVEGETATION USING TXDOT STANDARDS SHALL APPLY.
13. BORING MUD MUST BE DISPOSED AT A LOCATION APPROVED BY THE PROJECT INSPECTOR, AND THE APPROPRIATE GOVERNING AUTHORITY.

TRAFFIC CONTROL NOTES:

1. ALL TRAFFIC CONTROL SET UPS MUST BE IN ACCORDANCE WITH THE APPLICABLE SECTION OF TXMUTCD. ALL LANE CLOSURES MUST BE PRE-APPROVED BY TXDOT.
2. REFER TO TRAFFIC CONTROL DETAILS PROVIDED. CONTRACTOR IS URGED TO CONTACT TXDOT FOR ANY NECESSARY CLARIFICATION.
3. WHEN SETTING UP TRAFFIC CONTROL ON ROADS OTHER THAN TXDOT, APPLICABLE PERMITS MUST BE OBTAINED FROM THE APPROPRIATE GOVERNING AUTHORITY AND COORDINATE WITH TXDOT.
4. NO TRAFFIC CONTROL CAN BE SET UP IN INCLEMENT WEATHER.

UTILITY ABANDONMENT NOTES:

WATER AND WASTEWATER LINES

1. ABANDON OR REMOVE EXISTING WATER AND WASTEWATER LINES AS IDENTIFIED ON THE DRAWINGS.
2. AFTER THE NEW LINE IS IN SERVICE THE CONTRACTOR SHALL REMOVE ALL APPURTENANCES ON THE ABANDONED LINES WITHIN THE PROJECT ROW LIMITS, THESE APPURTENANCES SHALL INCLUDED BUT NOT LIMITED TO VALVES, WATER METERS, MANHOLES, JUNCTION BOXES, CLEANOUTS, ETC.
3. CONTRACTOR SHALL BACKFILL WITH LEAN FLOWABLE. FILL ALL MAJOR LINES (>4-INCHES) THAT ARE ABANDONED IN PLACE.
4. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY ON ANY SALVAGED MATERIALS. IF THESE MATERIALS ARE TO BE DISPOSED OF, CONTRACTOR SHALL DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

NO.	DATE	REVISION	APPROVED



Texas Department of Transportation
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LINA T. RAMEY & ASSOCIATES, INC.
3320 Belt Line Rd
Farmers Branch, Texas 75234
Firm Registration No. F-782

IH 35 FROM S LP 340 TO 12TH ST

GENERAL NOTES TXDOT

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
6	SEE TITLE SHEET	1058
STATE	DIST.	COUNTY
TEXAS	WACO	MCLENNAN
CONT.	SECT.	JOB HIGHWAY NO.
0015	01	246, ETC IH 35

HORIZONTAL ALIGNMENT DATA

<* 1 Describe Chain W01
Chain W01 contains:
W0101 W0102 CUR W011 CUR W012 CUR W013 W0103 W0104 W0105 W0106 CUR W014 CUR W0-
15 W0107 W0108 W0109 W0110 W0111
Beginning chain W01 description
Point W0101 N 10,527,849.64 E 3,291,346.97 Sta 0+00.00
Course from W0101 to W0102 N 19° 59' 42.27" W Dist 2.86
Point W0102 N 10,527,852.32 E 3,291,345.99 Sta 0+02.86
Course from W0102 to PC W011 N 25° 00' 17.72" E Dist 3.67
Curve Data
Curve W011
P.I. Station 0+09.69 N 10,527,858.51 E 3,291,348.88
Delta = 0° 07' 15.32" (RT)
Degree = 1° 54' 35.49"
Tangent = 3.17
Length = 6.33
Radius = 3,000.00
External = 0.00
Long Chord = 6.33
Mid. Ord. = 0.00
P.C. Station 0+06.52 N 10,527,855.64 E 3,291,347.54
P.T. Station 0+12.85 N 10,527,861.38 E 3,291,350.23
C.C. = N 25° 00' 17.73" E
Back = N 25° 07' 33.05" E
Ahead = N 25° 03' 55.39" E
Chord Bear = N 25° 03' 55.39" E
Course from PT W011 to PC W012 N 25° 07' 33.05" E Dist 452.62
Curve Data
Curve W012
P.I. Station 4+68.28 N 10,528,273.71 E 3,291,543.60
Delta = 1° 36' 19.63" (RT)
Degree = 28° 38' 52.40"
Tangent = 2.80
Length = 5.60
Radius = 200.00
External = 0.02
Long Chord = 5.60
Mid. Ord. = 0.02
P.C. Station 4+65.48 N 10,528,271.17 E 3,291,542.41
P.T. Station 4+71.08 N 10,528,276.21 E 3,291,544.86
C.C. = N 25° 07' 33.05" E
Back = N 26° 43' 52.68" E
Ahead = N 25° 55' 42.86" E
Chord Bear = N 25° 55' 42.86" E
Course from PT W012 to PC W013 N 26° 43' 52.67" E Dist 6.53
Curve Data
Curve W013
P.I. Station 5+71.97 N 10,528,366.31 E 3,291,590.24
Delta = 5° 24' 08.44" (RT)
Degree = 2° 51' 53.24"
Tangent = 94.36
Length = 188.58
Radius = 2,000.00
External = 2.22
Long Chord = 188.51
Mid. Ord. = 2.22
P.C. Station 4+77.61 N 10,528,282.04 E 3,291,547.80
P.T. Station 6+66.18 N 10,528,446.22 E 3,291,640.43
C.C. = N 26° 43' 52.68" E
Back = N 32° 08' 01.12" E
Ahead = N 29° 25' 56.90" E
Chord Bear = N 29° 25' 56.90" E
Course from PT W013 to W0103 N 32° 08' 01.12" E Dist 54.38
Point W0103 N 10,528,492.26 E 3,291,669.35 Sta 7+20.56
Course from W0103 to W0104 N 77° 08' 01.12" E Dist 9.83
Point W0104 N 10,528,494.45 E 3,291,678.94 Sta 7+30.39
Course from W0104 to W0105 N 32° 08' 01.12" E Dist 40.00
Point W0105 N 10,528,528.33 E 3,291,700.22 Sta 7+70.39
Course from W0105 to W0106 N 12° 51' 58.88" W Dist 9.83
Point W0106 N 10,528,537.91 E 3,291,698.03 Sta 7+80.23
Course from W0106 to PC W014 N 32° 08' 01.11" E Dist 15.67
Curve Data
Curve W014
P.I. Station 8+77.52 N 10,528,620.31 E 3,291,749.78
Delta = 9° 19' 59.63" (LT)
Degree = 5° 43' 46.48"
Tangent = 81.63
Length = 162.90
Radius = 1,000.00
External = 3.33
Long Chord = 162.72
Mid. Ord. = 3.32
P.C. Station 7+95.90 N 10,528,551.18 E 3,291,706.36
P.T. Station 9+58.79 N 10,528,695.56 E 3,291,781.41
C.C. = N 32° 08' 01.12" E
Back = N 22° 48' 01.49" E
Ahead = N 27° 28' 01.31" E
Chord Bear = N 27° 28' 01.31" E
Course from PT W014 to PC W015 N 22° 48' 01.49" E Dist 563.13

Curve Data
Curve W015
P.I. Station 15+41.56 N 10,529,232.79 E 3,292,007.25
Delta = 2° 14' 59.28" (LT)
Degree = 5° 43' 46.48"
Tangent = 19.64
Length = 39.27
Radius = 1,000.00
External = 0.19
Long Chord = 39.26
Mid. Ord. = 0.19
P.C. Station 15+21.93 N 10,529,214.69 E 3,291,999.64
P.T. Station 15+61.19 N 10,529,251.17 E 3,292,014.14
C.C. = N 22° 48' 01.49" E
Back = N 20° 33' 02.22" E
Ahead = N 21° 40' 31.86" E
Chord Bear = N 21° 40' 31.86" E
Course from PT W015 to W0107 N 20° 33' 02.22" E Dist 10.17
Point W0107 N 10,529,260.70 E 3,292,017.71 Sta 15+71.36
Course from W0107 to W0108 N 65° 33' 02.31" E Dist 1.42
Point W0108 N 10,529,261.28 E 3,292,019.00 Sta 15+72.78
Course from W0108 to W0109 S 69° 26' 57.78" E Dist 12.76
Point W0109 N 10,529,256.80 E 3,292,030.95 Sta 15+85.54
Course from W0109 to W0110 N 65° 33' 02.23" E Dist 1.47
Point W0110 N 10,529,257.41 E 3,292,032.28 Sta 15+87.01
Course from W0110 to W0111 N 43° 03' 02.22" E Dist 60.93
Point W0111 N 10,529,301.94 E 3,292,073.88 Sta 16+47.93
Ending chain W01 description
<* 2 Describe Chain W02
Chain W02 contains:
W0201 W0202 W0203 W0204 W0205
Beginning chain W02 description
Point W0201 N 10,528,713.28 E 3,291,368.16 Sta 0+00.00
Course from W0201 to W0202 S 57° 51' 58.92" E Dist 3.50
Point W0202 N 10,528,711.42 E 3,291,371.13 Sta 0+03.50
Course from W0202 to W0203 S 57° 51' 58.91" E Dist 1.86
Point W0203 N 10,528,710.43 E 3,291,372.70 Sta 0+05.35
Course from W0203 to W0204 S 57° 51' 58.93" E Dist 374.20
Point W0204 N 10,528,511.39 E 3,291,689.58 Sta 3+79.56
Course from W0204 to W0205 S 32° 08' 01.13" W Dist 0.94
Point W0205 N 10,528,510.60 E 3,291,689.08 Sta 3+80.50
Ending chain W02 description
<* 3 Describe Chain W03
Chain W03 contains:
W0301 W0302 W0303 W0304 W0305 CUR W031 W0306 CUR W032 CUR W033 CUR W034 W0307 -
W0308 W0309 CUR W035 W0310 W0311 W0312 CUR W036 CUR W037 W0313 W0314 W0315 W031-
6 CUR W038 CUR W039 W0317 W0318 CUR W0310 W0319 W0320 CUR W0311 CUR W0312 CUR W-
0313 W0321 W0322 CUR W0314 CUR W0315 W0323 W0324 W0325 W0326 W0327 CUR W0316 W0-
328 W0329 W0330 W0331 W0332 W0333 W0334 W0335 W0336 W0337 W0338 W0339 W0340 W03-
41 W0342 W0343 W0344 W0345 CUR W0317 W0346 W0347
Beginning chain W03 description
Point W0301 N 10,528,751.67 E 3,291,255.92 Sta 0+00.00
Course from W0301 to W0302 N 87° 13' 03.77" E Dist 3.25
Point W0302 N 10,528,751.83 E 3,291,259.17 Sta 0+03.25
Course from W0302 to W0303 S 47° 46' 56.18" E Dist 92.84
Point W0303 N 10,528,689.45 E 3,291,327.93 Sta 0+96.09
Course from W0303 to W0304 N 87° 13' 03.82" E Dist 14.68
Point W0304 N 10,528,690.16 E 3,291,342.59 Sta 1+10.77
Course from W0304 to W0305 N 75° 58' 03.83" E Dist 13.81
Point W0305 N 10,528,693.51 E 3,291,355.98 Sta 1+24.58
Course from W0305 to PC W031 N 30° 58' 03.83" E Dist 3.84

Curve Data
Curve W031
P.I. Station 1+34.52 N 10,528,702.04 E 3,291,361.10
Delta = 1° 09' 57.25" (RT)
Degree = 9° 32' 57.47"
Tangent = 6.10
Length = 12.21
Radius = 600.00
External = 0.03
Long Chord = 12.21
Mid. Ord. = 0.03
P.C. Station 1+28.42 N 10,528,696.80 E 3,291,357.96
P.T. Station 1+40.63 N 10,528,707.21 E 3,291,364.35
C.C. = N 30° 58' 03.82" E
Back = N 32° 08' 01.07" E
Ahead = N 31° 33' 02.45" E
Chord Bear = N 31° 33' 02.45" E
Course from PT W031 to W0306 N 32° 08' 01.07" E Dist 13.61
Point W0306 N 10,528,718.73 E 3,291,371.59 Sta 1+54.24
Course from W0306 to PC W032 N 20° 53' 01.07" E Dist 27.01
Curve Data
Curve W032
P.I. Station 2+03.30 N 10,528,764.57 E 3,291,389.08
Delta = 2° 31' 33.29" (RT)
Degree = 5° 43' 46.48"
Tangent = 22.05
Length = 44.09
Radius = 1,000.00
External = 0.24
Long Chord = 44.08
Mid. Ord. = 0.24
P.C. Station 1+81.25 N 10,528,743.97 E 3,291,381.22
P.T. Station 2+25.34 N 10,528,784.80 E 3,291,397.84
C.C. = N 20° 53' 01.07" E
Back = N 23° 24' 34.36" E
Ahead = N 22° 08' 47.72" E
Chord Bear = N 22° 08' 47.72" E
Course from PT W032 to PC W033 N 23° 24' 34.36" E Dist 122.95
Curve Data
Curve W033
P.I. Station 3+68.05 N 10,528,915.77 E 3,291,454.54
Delta = 2° 15' 50.07" (RT)
Degree = 5° 43' 46.48"
Tangent = 19.76
Length = 39.51
Radius = 1,000.00
External = 0.20
Long Chord = 39.51
Mid. Ord. = 0.20
P.C. Station 3+48.29 N 10,528,897.64 E 3,291,446.69
P.T. Station 3+87.81 N 10,528,933.58 E 3,291,463.10
C.C. = N 23° 24' 34.36" E
Back = N 25° 40' 24.44" E
Ahead = N 24° 32' 29.40" E
Chord Bear = N 24° 32' 29.40" E
Course from PT W033 to PC W034 N 25° 40' 24.44" E Dist 53.88
Curve Data
Curve W034
P.I. Station 4+69.72 N 10,529,007.41 E 3,291,498.59
Delta = 5° 21' 00.76" (LT)
Degree = 9° 32' 57.47"
Tangent = 28.03
Length = 56.03
Radius = 600.00
External = 0.65
Long Chord = 56.01
Mid. Ord. = 0.65
P.C. Station 4+41.69 N 10,528,982.14 E 3,291,486.44
P.T. Station 4+97.72 N 10,529,033.70 E 3,291,508.32
C.C. = N 25° 40' 24.44" E
Back = N 20° 19' 23.68" E
Ahead = N 22° 59' 54.06" E
Chord Bear = N 22° 59' 54.06" E
Course from PT W034 to W0307 N 20° 19' 23.66" E Dist 2.33
Point W0307 N 10,529,035.88 E 3,291,509.14 Sta 5+00.05
Course from W0307 to W0308 N 24° 40' 36.33" W Dist 9.94
Point W0308 N 10,529,044.91 E 3,291,504.99 Sta 5+09.98
Course from W0308 to W0309 N 47° 10' 36.33" W Dist 61.31
Point W0309 N 10,529,086.59 E 3,291,460.02 Sta 5+71.29
Course from W0309 to PC W035 N 42° 49' 23.68" E Dist 136.48
Curve Data
Curve W035
P.I. Station 7+35.67 N 10,529,207.15 E 3,291,571.75
Delta = 5° 19' 23.61" (LT)
Degree = 9° 32' 57.47"
Tangent = 27.89
Length = 55.74
Radius = 600.00
External = 0.65
Long Chord = 55.72
Mid. Ord. = 0.65
P.C. Station 7+07.78 N 10,529,186.69 E 3,291,552.79
P.T. Station 7+63.52 N 10,529,229.28 E 3,291,588.73
C.C. = N 42° 49' 23.68" E
Back = N 37° 30' 00.06" E
Ahead = N 40° 09' 41.87" E
Chord Bear = N 40° 09' 41.87" E

FILE: pwt\pw-int.hntb.org\PWCentral\Documents\Dallas Projects\68651 Waco IH 35 4C\CAD\Sheets\06 - Util\Titles\IH35-Curve-Data-1.dgn
DATE: 7/17/2024 5:43:22 PM USER:untitled Workspace

Table with columns NO., DATE, REVISION, APPROVED. Includes professional seal for MATT WOLFE, State of Texas, Professional Engineer, License No. 136362, dated 07/17/2024. Also includes Texas Department of Transportation logo and LTRA logo. Project title: IH 35 FROM S LP 340 TO 12TH ST. SHEET 1 OF 10.

FILE: pwt\pw-int.hntb.org\PWCentral\Documents\Dallas Projects\68651 Waco IH 35 4C\CAD\Sheets\06 - Ut1 Titles\IH35-Curve-Data*3.dgn
 DATE: 7/17/2024 5:43:31 PM USER:untitled Workspace

HORIZONTAL ALIGNMENT DATA

Point W0343 N 10,532,989.49 E 3,293,189.88 Sta 49+41.25
 Course from W0343 to W0344 N 5° 47' 31.28" E Dist 94.90
 Point W0344 N 10,533,083.90 E 3,293,199.46 Sta 50+36.14
 Course from W0344 to W0345 N 17° 02' 31.28" E Dist 22.50
 Point W0345 N 10,533,105.41 E 3,293,206.05 Sta 50+58.64
 Course from W0345 to PC W0317 N 27° 57' 28.72" W Dist 25.19

Curve Data
 P.I. Station 51+10.95 N 10,533,151.61 E 3,293,181.53
 Delta = 5° 10' 29.11" (LT)
 Degree = 9° 32' 57.47"
 Tangent = 27.11
 Length = 54.19
 Radius = 600.00
 External = 0.61
 Long Chord = 54.17
 Mid. Ord. = 0.61
 P.C. Station 50+83.84 N 10,533,127.67 E 3,293,194.24
 P.T. Station 51+38.03 N 10,533,174.32 E 3,293,166.71
 C.C. = N 27° 57' 28.72" W
 Back = N 33° 07' 57.83" W
 Ahead = N 30° 32' 43.27" W
 Chord Bear = N 30° 32' 43.27" W

Course from PT W0317 to W0346 N 33° 07' 57.84" W Dist 3.38
 Point W0346 N 10,533,177.15 E 3,293,164.86 Sta 51+41.41
 Course from W0346 to W0347 N 78° 07' 57.83" W Dist 6.44
 Point W0347 N 10,533,178.47 E 3,293,158.56 Sta 51+47.84

Ending chain W03 description
 <* 1 Describe Chain W04
 Chain W04 contains:
 W0401 W0402 W0403 W0404
 Beginning chain W04 description
 Point W0401 N 10,529,535.03 E 3,291,751.15 Sta 0+00.00
 Course from W0401 to W0402 S 64° 43' 45.65" E Dist 29.27
 Point W0402 N 10,529,522.54 E 3,291,777.62 Sta 0+29.27
 Course from W0402 to W0403 S 64° 43' 45.65" E Dist 346.28
 Point W0403 N 10,529,374.71 E 3,292,090.76 Sta 3+75.55
 Course from W0403 to W0404 S 64° 43' 45.64" E Dist 3.54
 Point W0404 N 10,529,373.20 E 3,292,093.95 Sta 3+79.08

Ending chain W04 description
 <* 2 Describe Chain W05
 Chain W05 contains:
 W0501 W0502 W0503
 Beginning chain W05 description
 Point W0501 N 10,530,074.45 E 3,292,052.96 Sta 0+00.00
 Course from W0501 to W0502 S 64° 50' 29.90" E Dist 12.16
 Point W0502 N 10,530,069.29 E 3,292,063.96 Sta 0+12.16
 Course from W0502 to W0503 S 64° 50' 29.90" E Dist 311.65
 Point W0503 N 10,529,936.79 E 3,292,346.05 Sta 3+23.81

Ending chain W05 description
 <* 3 Describe Chain W06
 Chain W06 contains:
 W0601 W0602 W0603 CUR W061 CUR W062 W0604 W0605 W0606 W0607 CUR W063 CUR W064 -
 CUR W065 CUR W066 W0608 W0609 CUR W067 CUR W068 W0610 W0611
 Beginning chain W06 description
 Point W0601 N 10,529,913.50 E 3,292,338.14 Sta 0+00.00
 Course from W0601 to W0602 N 24° 45' 23.74" E Dist 15.00
 Point W0602 N 10,529,927.12 E 3,292,344.42 Sta 0+15.00
 Course from W0602 to W0603 N 20° 14' 36.26" W Dist 3.64
 Point W0603 N 10,529,930.53 E 3,292,343.16 Sta 0+18.64
 Course from W0603 to PC W061 N 24° 45' 23.74" E Dist 36.03

Curve Data
 P.I. Station 10,529,975.35 E 3,292,363.83
 Delta = 3° 03' 17.69" (RT)
 Degree = 11° 27' 32.96"
 Tangent = 13.33
 Length = 26.66
 Radius = 500.00
 External = 0.18
 Long Chord = 26.66
 Mid. Ord. = 0.18
 P.C. Station 0+54.66 N 10,529,963.25 E 3,292,358.25
 P.T. Station 0+81.32 N 10,529,987.15 E 3,292,370.05
 C.C. = N 24° 45' 23.74" E
 Back = N 27° 48' 41.43" E
 Ahead = N 26° 17' 02.58" E
 Chord Bear = N 26° 17' 02.58" E

Course from PT W061 to PC W062 N 27° 48' 41.43" E Dist 66.78

Curve Data
 P.I. Station 10,530,056.92 E 3,292,406.85
 Delta = 2° 46' 24.02" (RT)
 Degree = 11° 27' 32.96"
 Tangent = 12.10
 Length = 24.20
 Radius = 500.00
 External = 0.15
 Long Chord = 24.20
 Mid. Ord. = 0.15
 P.C. Station 1+48.10 N 10,530,046.21 E 3,292,401.20
 P.T. Station 1+72.30 N 10,530,067.33 E 3,292,413.01
 C.C. = N 27° 48' 41.43" E
 Back = N 30° 35' 05.45" E
 Ahead = N 29° 11' 53.44" E
 Chord Bear = N 29° 11' 53.44" E

Course from PT W062 to W0604 N 30° 35' 05.45" E Dist 28.33
 Point W0604 N 10,530,091.72 E 3,292,427.42 Sta 2+00.63
 Course from W0604 to W0605 N 75° 35' 05.41" E Dist 2.68
 Point W0605 N 10,530,092.39 E 3,292,430.02 Sta 2+03.31
 Course from W0605 to W0606 N 30° 35' 05.45" E Dist 111.62
 Point W0606 N 10,530,188.48 E 3,292,486.81 Sta 3+14.93
 Course from W0606 to W0607 N 14° 24' 54.55" W Dist 10.37
 Point W0607 N 10,530,198.52 E 3,292,484.23 Sta 3+25.30
 Course from W0607 to PC W063 N 30° 35' 05.45" E Dist 18.85

Curve Data
 P.I. Station 10,530,220.19 E 3,292,497.04
 Delta = 1° 26' 50.49" (LT)
 Degree = 11° 27' 32.96"
 Tangent = 6.32
 Length = 12.63
 Radius = 500.00
 External = 0.04
 Long Chord = 12.63
 Mid. Ord. = 0.04
 P.C. Station 3+44.15 N 10,530,214.75 E 3,292,493.82
 P.T. Station 3+56.78 N 10,530,225.71 E 3,292,500.11
 C.C. = N 30° 35' 05.45" E
 Back = N 29° 08' 14.96" E
 Ahead = N 29° 08' 14.96" E
 Chord Bear = N 29° 51' 40.20" E

Course from PT W063 to PC W064 N 29° 08' 14.95" E Dist 133.35

Curve Data
 P.I. Station 10,530,353.07 E 3,292,571.11
 Delta = 0° 42' 50.81" (LT)
 Degree = 2° 51' 53.24"
 Tangent = 12.46
 Length = 24.93
 Radius = 2,000.00
 External = 0.04
 Long Chord = 24.93
 Mid. Ord. = 0.04
 P.C. Station 4+90.13 N 10,530,342.18 E 3,292,565.04
 P.T. Station 5+15.06 N 10,530,364.03 E 3,292,577.04
 C.C. = N 29° 08' 14.96" E
 Back = N 28° 25' 24.14" E
 Ahead = N 28° 46' 49.55" E
 Chord Bear = N 28° 46' 49.55" E

Course from PT W064 to PC W065 N 28° 25' 24.14" E Dist 27.06

Curve Data
 P.I. Station 10,530,422.18 E 3,292,608.51
 Delta = 4° 28' 22.09" (LT)
 Degree = 5° 43' 46.48"
 Tangent = 39.05
 Length = 78.07
 Radius = 1,000.00
 External = 0.76
 Long Chord = 78.05
 Mid. Ord. = 0.76
 P.C. Station 5+42.12 N 10,530,387.83 E 3,292,589.92
 P.T. Station 6+20.19 N 10,530,457.87 E 3,292,624.37
 C.C. = N 28° 25' 24.14" E
 Back = N 23° 57' 02.05" E
 Ahead = N 26° 11' 13.10" E
 Chord Bear = N 26° 11' 13.10" E

Course from PT W065 to PC W066 N 23° 30' 35.47" E Dist 74.02

Curve Data
 P.I. Station 10,530,544.79 E 3,292,662.18
 Delta = 2° 22' 49.68" (LT)
 Degree = 5° 43' 46.48"
 Tangent = 20.78
 Length = 41.55
 Radius = 1,000.00
 External = 0.22
 Long Chord = 41.54
 Mid. Ord. = 0.22
 P.C. Station 6+94.21 N 10,530,525.74 E 3,292,653.89
 P.T. Station 7+35.76 N 10,530,564.17 E 3,292,669.67
 C.C. = N 23° 30' 35.47" E
 Back = N 21° 07' 45.79" E
 Ahead = N 22° 19' 10.63" E
 Chord Bear = N 22° 19' 10.63" E

Course from PT W066 to W0608 N 21° 07' 45.79" E Dist 576.53
 Point W0608 N 10,531,101.95 E 3,292,877.50 Sta 13+12.29
 Course from W0608 to W0609 N 43° 37' 45.79" E Dist 14.37
 Point W0609 N 10,531,112.35 E 3,292,887.41 Sta 13+26.66
 Course from W0609 to PC W067 N 21° 07' 45.79" E Dist 44.51

Curve Data
 P.I. Station 10,531,170.13 E 3,292,909.74
 Delta = 3° 59' 39.02" (RT)
 Degree = 11° 27' 32.96"
 Tangent = 17.43
 Length = 34.86
 Radius = 500.00
 External = 0.30
 Long Chord = 34.85
 Mid. Ord. = 0.30
 P.C. Station 13+71.17 N 10,531,153.87 E 3,292,903.46
 P.T. Station 14+06.03 N 10,531,185.92 E 3,292,917.15
 C.C. = N 21° 07' 45.79" E
 Back = N 25° 07' 24.81" E
 Ahead = N 23° 07' 35.30" E
 Chord Bear = N 23° 07' 35.30" E

Course from PT W067 to PC W068 N 25° 07' 24.81" E Dist 50.73

Curve Data
 P.I. Station 10,531,236.26 E 3,292,940.75
 Delta = 0° 16' 44.85" (RT)
 Degree = 2° 51' 53.24"
 Tangent = 4.87
 Length = 9.74
 Radius = 2,000.00
 External = 0.01
 Long Chord = 9.74
 Mid. Ord. = 0.01
 P.C. Station 14+56.76 N 10,531,231.85 E 3,292,938.68
 P.T. Station 14+66.51 N 10,531,240.66 E 3,292,942.84
 C.C. = N 25° 07' 24.81" E
 Back = N 25° 24' 09.66" E
 Ahead = N 25° 15' 47.24" E
 Chord Bear = N 25° 15' 47.24" E

Course from PT W068 to W0610 N 25° 24' 09.67" E Dist 12.50
 Point W0610 N 10,531,251.96 E 3,292,948.21 Sta 14+79.01
 Course from W0610 to W0611 N 2° 54' 09.66" E Dist 16.56
 Point W0611 N 10,531,268.49 E 3,292,949.05 Sta 14+95.57

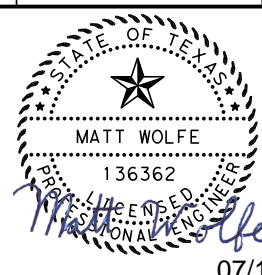
Ending chain W06 description
 <* 4 Describe Chain W07
 Chain W07 contains:
 W0701 W0702 CUR W071 W0703
 Beginning chain W07 description
 Point W0701 N 10,531,888.10 E 3,293,254.48 Sta 0+00.00
 Course from W0701 to W0702 N 72° 06' 16.23" E Dist 1.77
 Point W0702 N 10,531,888.65 E 3,293,256.17 Sta 0+01.77
 Course from W0702 to PC W071 N 83° 21' 16.21" E Dist 13.85

Curve Data
 P.I. Station 10,531,891.98 E 3,293,284.78
 Delta = 4° 17' 04.34" (RT)
 Degree = 14° 19' 26.20"
 Tangent = 14.96
 Length = 29.91
 Radius = 400.00
 External = 0.28
 Long Chord = 29.90
 Mid. Ord. = 0.28
 P.C. Station 0+15.62 N 10,531,890.25 E 3,293,269.92
 P.T. Station 0+45.53 N 10,531,892.60 E 3,293,299.73
 C.C. = N 83° 21' 16.21" E
 Back = N 87° 38' 20.55" E
 Ahead = N 85° 29' 48.38" E
 Chord Bear = N 85° 29' 48.38" E

Course from PT W071 to W0703 N 87° 38' 20.55" E Dist 78.99
 Point W0703 N 10,531,895.85 E 3,293,378.65 Sta 1+24.52


Ending chain W07 description

NO.	DATE	REVISION	APPROVED

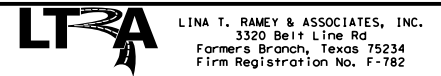


MATT WOLFE
 136362
 PROFESSIONAL ENGINEER

07/17/2024



Texas Department of Transportation
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LINA T. RAMEY & ASSOCIATES, INC.
 3320 Belt Line Rd
 Farmers Branch, Texas 75234
 Firm Registration No. F-782

IH 35 FROM S LP 340 TO 12TH ST

HORIZONTAL ALIGNMENT DATA

SHEET 3 OF 10

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1061	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

FILE: pwt\pw-int.hntb Documents\Dallas Projects\68651 Waco IH 35 4C\CAD Sheets\06 - Util\Titles\IH35-Curve-Data4.dgn
DATE: 7/17/2024 5:43:37 PM USER:unfiled Workspace

HORIZONTAL ALIGNMENT DATA

5 Describe Chain W08
Chain W08 contains:
W0801 W0802 W0803 CUR W081 W0804 W0805
Beginning chain W08 description
Point W0801 N 10,531,892.74 E 3,293,303.27 Sta 0+00.00
Course from W0801 to W0802 N 2° 21' 39.45" W Dist 12.32
Point W0802 N 10,531,905.05 E 3,293,302.77 Sta 0+12.32
Course from W0802 to W0803 N 20° 08' 20.55" E Dist 92.90
Point W0803 N 10,531,992.27 E 3,293,334.75 Sta 1+05.22
Course from W0803 to PC W081 N 31° 23' 20.55" E Dist 6.82

Curve Data
Curve W081
P.I. Station = 1+21.12 N 10,532,005.84 E 3,293,343.03
Delta = 1° 02' 26.15" (RT)
Degree = 5° 43' 46.48"
Tangent = 9.08
Length = 18.16
Radius = 1,000.00
External = 0.04
Long Chord = 18.16
Mid. Ord. = 0.04
P.C. Station = 1+12.03 N 10,531,998.09 E 3,293,338.30
P.T. Station = 1+30.20 N 10,532,013.51 E 3,293,347.90
C.C. = N 10,531,977.24 E 3,294,191.95
Back = N 31° 23' 20.55" E
Ahead = N 32° 25' 45.70" E
Chord Bear = N 31° 54' 33.62" E
Course from PT W081 to W0804 N 32° 25' 46.70" E Dist 218.62
Point W0804 N 10,532,198.04 E 3,293,465.14 Sta 3+48.82
Course from W0804 to W0805 N 12° 34' 13.30" W Dist 37.03
Point W0805 N 10,532,234.18 E 3,293,457.08 Sta 3+85.85
Ending chain W08 description

6 Describe Chain W09
Chain W09 contains:
W0901 W0902 W0903 W0904 W0905
Beginning chain W09 description
Point W0901 N 10,533,034.55 E 3,293,194.45 Sta 0+00.00
Course from W0901 to W0902 S 84° 12' 28.72" E Dist 3.85
Point W0902 N 10,533,034.16 E 3,293,198.28 Sta 0+03.85
Course from W0902 to W0903 S 72° 57' 28.73" E Dist 5.49
Point W0903 N 10,533,032.55 E 3,293,203.53 Sta 0+09.34
Course from W0903 to W0904 S 70° 44' 12.39" E Dist 399.27
Point W0904 N 10,532,900.82 E 3,293,580.45 Sta 4+08.62
Course from W0904 to W0905 N 70° 44' 12.62" W Dist 0.53
Point W0905 N 10,532,901.00 E 3,293,579.95 Sta 4+09.15
Ending chain W09 description

1 Describe Chain W10
Chain W10 contains:
W1001 W1002 W1003 W1004 CUR W101 CUR W102 CUR W103 W1005 W1006
Beginning chain W10 description
Point W1001 N 10,532,900.83 E 3,293,580.46 Sta 0+00.00
Course from W1001 to W1002 N 64° 15' 47.60" E Dist 1.78
Point W1002 N 10,532,901.60 E 3,293,582.06 Sta 0+01.78
Course from W1002 to W1003 N 41° 45' 47.61" E Dist 3.00
Point W1003 N 10,532,903.84 E 3,293,584.06 Sta 0+04.78
Course from W1003 to W1004 N 30° 30' 47.60" E Dist 12.89
Point W1004 N 10,532,914.94 E 3,293,590.61 Sta 0+17.67
Course from W1004 to PC W101 N 30° 30' 47.58" E Dist 0.60

Curve Data
Curve W101
P.I. Station = 0+34.68 N 10,532,929.60 E 3,293,599.24
Delta = 3° 08' 00.30" (RT)
Degree = 9° 32' 57.41"
Tangent = 15.41
Length = 32.81
Radius = 600.00
External = 0.22
Long Chord = 32.81
Mid. Ord. = 0.22
P.C. Station = 0+18.27 N 10,532,915.46 E 3,293,590.91
P.T. Station = 0+51.08 N 10,532,943.26 E 3,293,608.34
C.C. = N 10,532,610.82 E 3,294,107.82
Back = N 30° 30' 47.61" E
Ahead = N 33° 38' 47.91" E
Chord Bear = N 32° 04' 47.76" E
Course from PT W101 to PC W102 N 33° 38' 47.91" E Dist 21.15

Curve Data
Curve W102
P.I. Station = 0+87.58 N 10,532,973.65 E 3,293,628.56
Delta = 2° 55' 52.25" (LT)
Degree = 9° 32' 57.47"
Tangent = 15.35
Length = 30.70
Radius = 600.00
External = 0.20
Long Chord = 30.69
Mid. Ord. = 0.20
P.C. Station = 0+72.23 N 10,532,960.87 E 3,293,620.06
P.T. Station = 1+02.93 N 10,532,986.84 E 3,293,636.40
C.C. = N 10,533,293.31 E 3,293,120.57
Back = N 33° 38' 47.91" E
Ahead = N 30° 42' 55.66" E
Chord Bear = N 32° 10' 51.78" E
Course from PT W102 to PC W103 N 30° 42' 55.67" E Dist 2.55

Curve Data
Curve W103
P.I. Station = 1+72.98 N 10,533,047.07 E 3,293,672.18
Delta = 11° 00' 57.68" (LT)
Degree = 8° 11' 06.40"
Tangent = 87.50
Length = 134.59
Radius = 700.00
External = 3.25
Long Chord = 134.38
Mid. Ord. = 3.23
P.C. Station = 1+05.48 N 10,532,989.04 E 3,293,637.71
P.T. Station = 2+40.07 N 10,533,110.62 E 3,293,694.94
C.C. = N 10,533,346.58 E 3,293,035.91
Back = N 30° 42' 55.66" E
Ahead = N 19° 41' 57.98" E
Chord Bear = N 25° 12' 26.82" E
Course from PT W103 to W1005 N 19° 41' 57.98" E Dist 123.33
Point W1005 N 10,533,226.73 E 3,293,736.51 Sta 3+63.40
Course from W1005 to W1006 N 64° 41' 57.99" E Dist 17.24
Point W1006 N 10,533,234.10 E 3,293,752.09 Sta 3+80.63
Ending chain W10 description

1 Describe Chain W11
Chain W11 contains:
W1101 W1102 W1103 W1104 W1105 W1106 W1107 W1108
Beginning chain W11 description
Point W1101 N 10,534,591.53 E 3,293,751.22 Sta 0+00.00
Course from W1101 to W1102 N 87° 25' 38.75" E Dist 20.43
Point W1102 N 10,534,592.45 E 3,293,771.63 Sta 0+20.43
Course from W1102 to W1103 N 87° 47' 55.85" E Dist 10.00
Point W1103 N 10,534,592.83 E 3,293,781.62 Sta 0+30.43
Course from W1103 to W1104 S 47° 12' 04.15" E Dist 44.92
Point W1104 N 10,534,562.31 E 3,293,814.58 Sta 0+75.35
Course from W1104 to W1105 S 47° 12' 04.15" E Dist 400.38
Point W1105 N 10,534,290.28 E 3,294,108.36 Sta 4+75.73
Course from W1105 to W1106 S 2° 12' 04.15" E Dist 10.00
Point W1106 N 10,534,280.29 E 3,294,108.74 Sta 4+85.73
Course from W1106 to W1107 S 2° 34' 21.25" E Dist 16.22
Point W1107 N 10,534,264.09 E 3,294,109.47 Sta 5+01.95
Course from W1107 to W1108 S 47° 34' 21.25" E Dist 14.04
Point W1108 N 10,534,254.62 E 3,294,119.83 Sta 5+15.98
Ending chain W11 description

2 Describe Chain W12
Chain W12 contains:
W1201 W1202 CUR W121 W1203 CUR W122 CUR W123 W1204 W1205 W1206
Beginning chain W12 description
Point W1201 N 10,534,991.12 E 3,293,877.80 Sta 0+00.00
Course from W1201 to W1202 N 88° 59' 40.54" E Dist 25.88
Point W1202 N 10,534,991.58 E 3,293,903.68 Sta 0+25.88
Course from W1202 to PC W121 N 43° 59' 40.54" E Dist 17.91

Curve Data
Curve W121
P.I. Station = 0+49.60 N 10,535,008.64 E 3,293,920.15
Delta = 1° 19' 50.64" (LT)
Degree = 11° 27' 32.96"
Tangent = 5.81
Length = 11.61
Radius = 500.00
External = 0.03
Long Chord = 11.61
Mid. Ord. = 0.03
P.C. Station = 0+43.79 N 10,535,004.46 E 3,293,916.11
P.T. Station = 0+55.40 N 10,535,012.91 E 3,293,924.08
Back = N 30° 42' 55.66" E
Ahead = N 19° 41' 57.98" E
Chord Bear = N 25° 12' 26.82" E

C.C. = N 10,535,351.76 E 3,293,556.41
Back = N 43° 59' 40.54" E
Ahead = N 42° 39' 49.89" E
Chord Bear = N 43° 19' 45.22" E
Course from PT W121 to W1203 N 42° 39' 49.89" E Dist 15.17
Point W1203 N 10,535,024.06 E 3,293,934.36 Sta 0+70.57
Course from W1203 to PC W122 N 20° 04' 07.17" E Dist 155.00

Curve Data
Curve W122
P.I. Station = 2+37.70 N 10,535,181.05 E 3,293,991.71
Delta = 1° 23' 21.86" (RT)
Degree = 5° 43' 46.48"
Tangent = 12.13
Length = 24.25
Radius = 1,000.00
External = 0.07
Long Chord = 24.25
Mid. Ord. = 0.07
P.C. Station = 2+25.58 N 10,535,169.66 E 3,293,987.55
P.T. Station = 2+49.83 N 10,535,192.33 E 3,293,996.15
C.C. = N 10,534,826.51 E 3,294,926.84
Back = N 20° 04' 07.17" E
Ahead = N 21° 27' 29.03" E
Chord Bear = N 20° 45' 48.10" E
Course from PT W122 to PC W123 N 21° 27' 29.03" E Dist 126.32

Curve Data
Curve W123
P.I. Station = 3+84.82 N 10,535,317.97 E 3,294,045.53
Delta = 1° 59' 16.28" (LT)
Degree = 11° 27' 32.96"
Tangent = 6.67
Length = 17.35
Radius = 500.00
External = 0.08
Long Chord = 17.35
Mid. Ord. = 0.08
P.C. Station = 3+76.15 N 10,535,309.89 E 3,294,042.36
P.T. Station = 3+93.50 N 10,535,326.15 E 3,294,048.43
C.C. = N 10,535,492.80 E 3,293,577.02
Back = N 21° 27' 29.03" E
Ahead = N 19° 28' 12.75" E
Chord Bear = N 20° 27' 50.89" E
Course from PT W123 to W1204 N 19° 28' 12.76" E Dist 17.63
Point W1204 N 10,535,342.77 E 3,294,054.30 Sta 4+11.12
Course from W1204 to W1205 N 25° 31' 47.25" W Dist 10.34
Point W1205 N 10,535,352.10 E 3,294,049.85 Sta 4+21.46
Course from W1205 to W1206 N 19° 28' 12.76" E Dist 4.35
Point W1206 N 10,535,356.20 E 3,294,051.30 Sta 4+25.81
Ending chain W12 description

3 Describe Chain W13
Chain W13 contains:
W1301 CUR W131 W1302 W1303
Beginning chain W13 description
Point W1301 N 10,535,407.51 E 3,293,990.80 Sta 0+00.00
Course from W1301 to PC W131 S 48° 45' 20.81" E Dist 24.66

Curve Data
Curve W131
P.I. Station = 0+31.00 N 10,535,387.08 E 3,294,014.11
Delta = 0° 43' 33.57" (RT)
Degree = 5° 43' 46.48"
Tangent = 6.34
Length = 12.67
Radius = 1,000.00
External = 0.02
Long Chord = 12.67
Mid. Ord. = 0.02
P.C. Station = 0+24.66 N 10,535,391.25 E 3,294,009.34
P.T. Station = 0+37.33 N 10,535,382.84 E 3,294,018.82
C.C. = N 10,534,639.35 E 3,293,350.07
Back = S 48° 45' 20.81" E
Ahead = S 48° 01' 47.25" E
Chord Bear = S 48° 23' 34.03" E
Course from PT W131 to W1302 S 48° 01' 47.25" E Dist 37.35
Point W1302 N 10,535,357.86 E 3,294,046.58 Sta 0+74.68
Course from W1302 to W1303 S 70° 31' 47.25" E Dist 372.62
Point W1303 N 10,535,233.66 E 3,294,397.89 Sta 4+47.29
Ending chain W13 description

4 Describe Chain W14
Chain W14 contains:
W1401 W1402 CUR W141 CUR W142 CUR W143 W1403 CUR W144 W1404 W1405 CUR W145 W14-06 CUR W146 W1407
Beginning chain W14 description
Point W1401 N 10,535,190.07 E 3,294,390.52 Sta 0+00.00
Course from W1401 to W1402 N 6° 52' 54.15" W Dist 15.00
Point W1402 N 10,535,204.97 E 3,294,388.73 Sta 0+15.00
Course from W1402 to PC W141 N 15° 37' 05.84" E Dist 3.67

NO.	DATE	REVISION	APPROVED
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NO.	DATE	REVISION	APPROVED
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MATT WOLFE
136362
07/17/2024

Texas Department of Transportation
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LTRA LINA T. RAMEY & ASSOCIATES, INC.
3320 Belt Line Rd
Farmers Branch, Texas 75234
Firm Registration No. F-782

IH 35 FROM S LP 340 TO 12TH ST

HORIZONTAL ALIGNMENT DATA

SHEET 4 OF 10	
FED. RD. DIV. NO. 6	PROJECT NO. SEE TITLE SHEET
STATE TEXAS	DIST. WACO
CONT. 0015	COUNTY McLENNAN
	JOB 246, ETC
	HIGHWAY NO. IH 35

HORIZONTAL ALIGNMENT DATA

Curve W141
P.I. Station 0+28.76 N 10,535,218.21 E 3,294,392.43
Delta = 3° 51' 06.90" (RT)
Degree = 19° 05' 54.94"
Tangent = 10.09
Length = 20.17
Radius = 300.00
External = 0.17
Long Chord = 20.16
Mid. Ord. = 0.17
P.C. Station 0+18.67 N 10,535,208.50 E 3,294,389.71
P.T. Station 0+38.84 N 10,535,227.72 E 3,294,395.79
C.C. = N 10,535,127.73 E 3,294,678.64
Back = N 15° 37' 05.86" E
Ahead = N 19° 28' 12.75" E
Chord Bear = N 17° 32' 39.30" E

Course from PT W141 to PC W142 N 19° 28' 12.75" E Dist 25.01

Curve W142
P.I. Station 0+67.57 N 10,535,254.82 E 3,294,405.37
Delta = 1° 25' 31.68" (LT)
Degree = 19° 05' 54.94"
Tangent = 3.73
Length = 7.46
Radius = 300.00
External = 0.02
Long Chord = 7.46
Mid. Ord. = 0.02
P.C. Station 0+63.84 N 10,535,251.30 E 3,294,404.13
P.T. Station 0+71.31 N 10,535,258.37 E 3,294,406.53
C.C. = N 10,535,351.30 E 3,294,121.28
Back = N 19° 28' 12.75" E
Ahead = N 18° 02' 41.07" E
Chord Bear = N 18° 45' 26.91" E

Course from PT W142 to PC W143 N 18° 02' 41.07" E Dist 308.60

Curve W143
P.I. Station 3+84.50 N 10,535,556.15 E 3,294,503.54
Delta = 1° 45' 04.26" (LT)
Degree = 19° 05' 54.94"
Tangent = 4.58
Length = 9.17
Radius = 300.00
External = 0.04
Long Chord = 9.17
Mid. Ord. = 0.04
P.C. Station 3+79.91 N 10,535,551.79 E 3,294,502.12
P.T. Station 3+89.08 N 10,535,560.55 E 3,294,504.83
C.C. = N 10,535,644.72 E 3,294,216.88
Back = N 18° 02' 41.07" E
Ahead = N 16° 17' 36.81" E
Chord Bear = N 17° 10' 08.94" E

Course from PT W143 to W1403 N 16° 17' 36.81" E Dist 115.26

Point W1403 N 10,535,671.19 E 3,294,537.16 Sta 5+04.34

Course from W1403 to PC W144 N 16° 17' 36.82" E Dist 7.54

Curve W144
P.I. Station 5+56.12 N 10,535,720.89 E 3,294,551.69
Delta = 2° 32' 04.21" (LT)
Degree = 2° 51' 53.24"
Tangent = 44.24
Length = 88.47
Radius = 2,000.00
External = 0.49
Long Chord = 88.46
Mid. Ord. = 0.49
P.C. Station 5+11.88 N 10,535,678.42 E 3,294,539.28
P.T. Station 6+00.35 N 10,535,763.86 E 3,294,562.21
C.C. = N 10,536,239.54 E 3,292,619.61
Back = N 16° 17' 36.81" E
Ahead = N 13° 45' 32.60" E
Chord Bear = N 15° 01' 34.71" E

Course from PT W144 to W1404 N 13° 45' 32.60" E Dist 276.85

Point W1404 N 10,536,032.77 E 3,294,628.06 Sta 8+77.20

Course from W1404 to W1405 N 36° 15' 32.60" E Dist 11.64

Point W1405 N 10,536,042.16 E 3,294,634.95 Sta 8+88.85

Course from W1405 to PC W145 N 47° 30' 32.58" E Dist 3.54

Curve W145
P.I. Station 9+04.80 N 10,536,052.94 E 3,294,646.71
Delta = 4° 44' 31.93" (LT)
Degree = 19° 05' 54.94"
Tangent = 12.42
Length = 24.83
Radius = 300.00
External = 0.26
Long Chord = 24.82
Mid. Ord. = 0.26
P.C. Station 8+92.38 N 10,536,044.55 E 3,294,637.55
P.T. Station 9+17.21 N 10,536,062.06 E 3,294,655.15
C.C. = N 10,536,265.76 E 3,294,434.91
Back = N 47° 30' 32.60" E
Ahead = N 42° 46' 00.67" E
Chord Bear = N 45° 08' 16.64" E

Course from PT W145 to W1406 N 42° 46' 00.67" E Dist 216.60

Point W1406 N 10,536,221.07 E 3,294,802.22 Sta 11+33.81

Course from W1406 to PC W146 N 2° 13' 59.33" W Dist 4.82

Curve W146
P.I. Station 11+40.71 N 10,536,227.96 E 3,294,801.96
Delta = 0° 28' 32.96" (LT)
Degree = 11° 27' 32.96"
Tangent = 2.08
Length = 4.15
Radius = 500.00
External = 0.00
Long Chord = 4.15
Mid. Ord. = 0.00
P.C. Station 11+38.63 N 10,536,225.88 E 3,294,802.04
P.T. Station 11+42.79 N 10,536,230.03 E 3,294,801.86
C.C. = N 10,536,206.40 E 3,294,302.42
Back = N 2° 13' 59.33" W
Ahead = N 2° 42' 32.29" W
Chord Bear = N 2° 28' 15.81" W

Course from PT W146 to W1407 N 2° 42' 32.29" W Dist 18.34

Point W1407 N 10,536,248.35 E 3,294,800.99 Sta 11+61.12

Ending chain W14 description

<* 5 Describe Chain W15

Chain W15 contains:
W1501 CUR W151 W1502 W1503 W1504 CUR W152 W1505 W1506 W1507 W1508 W1509 CUR W153 W1510

Beginning chain W15 description

Point W1501 N 10,535,444.23 E 3,294,620.83 Sta 0+00.00

Course from W1501 to PC W151 N 47° 05' 55.60" W Dist 67.12

Curve W151
P.I. Station 0+85.05 N 10,535,502.13 E 3,294,558.53
Delta = 4° 06' 27.58" (LT)
Degree = 11° 27' 32.96"
Tangent = 17.93
Length = 35.85
Radius = 500.00
External = 0.32
Long Chord = 35.84
Mid. Ord. = 0.32
P.C. Station 0+67.12 N 10,535,489.92 E 3,294,571.67
P.T. Station 1+02.96 N 10,535,513.36 E 3,294,544.56
C.C. = N 10,535,123.66 E 3,294,231.30
Back = N 47° 05' 55.60" W
Ahead = N 51° 12' 23.19" W
Chord Bear = N 49° 09' 09.40" W

Course from PT W151 to W1502 N 51° 12' 23.19" W Dist 40.30

Point W1502 N 10,535,538.61 E 3,294,513.15 Sta 1+43.26

Course from W1502 to W1503 N 28° 42' 23.18" W Dist 20.00

Point W1503 N 10,535,556.15 E 3,294,503.54 Sta 1+63.26

Course from W1503 to W1504 N 16° 17' 36.81" E Dist 119.85

Point W1504 N 10,535,671.19 E 3,294,537.16 Sta 2+83.11

Course from W1504 to PC W152 N 38° 47' 36.82" E Dist 17.49

Curve W152
P.I. Station 3+17.95 N 10,535,698.34 E 3,294,558.99
Delta = 3° 58' 23.86" (RT)
Degree = 11° 27' 32.96"
Tangent = 17.34
Length = 34.67
Radius = 500.00
External = 0.30
Long Chord = 34.67
Mid. Ord. = 0.30
P.C. Station 3+00.60 N 10,535,684.82 E 3,294,548.12
P.T. Station 3+35.28 N 10,535,711.07 E 3,294,570.77
C.C. = N 10,535,371.56 E 3,294,937.83
Back = N 38° 47' 36.81" E
Ahead = N 42° 46' 00.67" E
Chord Bear = N 40° 46' 48.74" E

Course from PT W152 to W1505 N 42° 46' 00.67" E Dist 213.85

Point W1505 N 10,535,868.06 E 3,294,715.97 Sta 5+49.12

Course from W1505 to W1506 N 2° 13' 59.33" W Dist 41.25

Point W1506 N 10,535,909.28 E 3,294,714.36 Sta 5+90.37

Course from W1506 to W1507 N 47° 13' 59.33" W Dist 117.21

Point W1507 N 10,535,988.87 E 3,294,628.31 Sta 7+07.59

Course from W1507 to W1508 N 2° 13' 59.33" W Dist 42.42

Point W1508 N 10,536,031.26 E 3,294,626.66 Sta 7+50.01

Course from W1508 to W1509 N 42° 46' 00.67" E Dist 258.56

Point W1509 N 10,536,221.07 E 3,294,802.22 Sta 10+08.56

Course from W1509 to PC W153 N 2° 13' 59.33" W Dist 4.82

Curve W153
P.I. Station 10+15.46 N 10,536,227.96 E 3,294,801.96
Delta = 0° 28' 32.96" (LT)
Degree = 11° 27' 32.96"
Tangent = 2.08
Length = 4.15
Radius = 500.00
External = 0.00
Long Chord = 4.15
Mid. Ord. = 0.00
P.C. Station 10+13.38 N 10,536,225.88 E 3,294,802.04
P.T. Station 10+17.53 N 10,536,230.03 E 3,294,801.86
C.C. = N 10,536,206.40 E 3,294,302.42
Back = N 2° 13' 59.33" W
Ahead = N 2° 42' 32.29" W
Chord Bear = N 2° 28' 15.81" W

Course from PT W153 to W1510 N 2° 42' 32.29" W Dist 18.34

Point W1510 N 10,536,248.35 E 3,294,800.99 Sta 10+35.87

Ending chain W15 description

<* 6 Describe Chain W16

Chain W16 contains:
W1601 W1602 W1603 CUR W161 W1604 CUR W162 W1605 W1606 W1607

Beginning chain W16 description

Point W1601 N 10,536,570.94 E 3,294,831.81 Sta 0+00.00

Course from W1601 to W1602 N 69° 51' 19.23" W Dist 10.48

Point W1602 N 10,536,574.55 E 3,294,821.98 Sta 0+10.48

Course from W1602 to W1603 N 47° 21' 19.23" W Dist 42.03

Point W1603 N 10,536,603.02 E 3,294,791.06 Sta 0+52.50

Course from W1603 to PC W161 N 2° 21' 19.23" W Dist 9.77

Curve W161
P.I. Station 0+75.02 N 10,536,625.52 E 3,294,790.14
Delta = 4° 51' 55.59" (RT)
Degree = 19° 05' 54.94"
Tangent = 12.75
Length = 25.48
Radius = 300.00
External = 0.27
Long Chord = 25.47
Mid. Ord. = 0.27
P.C. Station 0+62.28 N 10,536,612.79 E 3,294,790.66
P.T. Station 0+87.75 N 10,536,638.25 E 3,294,790.70
C.C. = N 10,536,625.12 E 3,295,090.41
Back = N 2° 21' 19.23" W
Ahead = N 2° 30' 36.36" E
Chord Bear = N 0° 04' 38.57" E

Course from PT W161 to W1604 N 2° 30' 36.36" E Dist 6.66

Point W1604 N 10,536,644.91 E 3,294,790.99 Sta 0+94.41

Course from W1604 to PC W162 N 13° 45' 36.36" E Dist 220.22

Curve W162
P.I. Station 3+31.70 N 10,536,875.38 E 3,294,847.43
Delta = 6° 30' 37.01" (RT)
Degree = 19° 05' 54.94"
Tangent = 17.06
Length = 34.09
Radius = 300.00
External = 0.48
Long Chord = 34.07
Mid. Ord. = 0.48
P.C. Station 3+14.64 N 10,536,858.81 E 3,294,843.37
P.T. Station 3+48.72 N 10,536,891.39 E 3,294,853.34
C.C. = N 10,536,787.45 E 3,295,134.76
Back = N 13° 45' 36.36" E
Ahead = N 20° 16' 13.37" E
Chord Bear = N 17° 00' 54.87" E

Course from PT W162 to W1605 N 20° 16' 13.37" E Dist 17.26

Point W1605 N 10,536,907.58 E 3,294,859.32 Sta 3+65.98

Course from W1605 to W1606 N 42° 46' 13.37" E Dist 192.87

Point W1606 N 10,537,049.16 E 3,294,990.29 Sta 5+58.86

Course from W1606 to W1607 N 2° 13' 46.63" W Dist 15.23

Point W1607 N 10,537,064.38 E 3,294,989.70 Sta 5+74.09

Ending chain W16 description

FILE: pwt\pw-int.hntb.org\PWCentral\Div\Projects\68651 Waco IH 35 4C\CAD\Sheets\06 - Util\Titles\IH35-Curve-Data*5.dgn
DATE: 7/17/2024 5:43:42 PM USER:untitled Workspace

Revision table with columns NO., DATE, REVISION, APPROVED. Includes a circular seal for Matt Wolfe, State of Texas, Professional Engineer, No. 136362, dated 07/17/2024. Below the seal is the Texas Department of Transportation logo and LTRA logo. At the bottom, it says 'IH 35 FROM S LP 340 TO 12TH ST HORIZONTAL ALIGNMENT DATA SHEET 5 OF 10'.

FILE: pwt\pw-int.hntb.org\pwc\Central\Documents\Dallas Projects\68651 Waco IH 35 4C\CAD\Sheets\06 - Ut1\Titles\IH35-Curve-Data\6.dgn
 DATE: 7/17/2024 5:43:47 PM
 USER: Untitled Workspace

<* 1 Describe Chain W17
 Chain W17 contains:
 W1701 W1702 CUR W171 W1703 W1704 CUR W172 W1705 W1706 W1707
 Beginning chain W17 description
 =====
 Point W1701 N 10,535,407.51 E 3,293,990.80 Sta 0+00.00
 Course from W1701 to W1702 N 3° 45' 20.81" W Dist 4.96
 Point W1702 N 10,535,412.46 E 3,293,990.47 Sta 0+04.96
 Course from W1702 to PC W171 N 41° 14' 39.18" E Dist 138.27
 =====
 Curve Data

 Curve W171
 P.I. Station 1+68.52 N 10,535,535.45 E 3,294,098.31
 Delta = 4° 49' 40.59" (LT)
 Degree = 9° 32' 57.47"
 Tangent = 25.29
 Length = 50.56
 Radius = 600.00
 External = 0.53
 Long Chord = 50.54
 Mid. Ord. = 0.53
 P.C. Station 1+43.23 N 10,535,516.43 E 3,294,081.63
 P.T. Station 1+93.79 N 10,535,555.80 E 3,294,113.32
 C.C. N 10,535,911.99 E 3,293,630.49
 Back = N 41° 14' 39.19" E
 Ahead = N 36° 24' 58.60" E
 Chord Bear = N 38° 49' 48.89" E
 Course from PT W171 to W1703 N 36° 24' 58.60" E Dist 20.52
 Point W1703 N 10,535,572.31 E 3,294,125.50 Sta 2+14.30
 Course from W1703 to W1704 N 13° 54' 58.60" E Dist 222.36
 Point W1704 N 10,535,788.14 E 3,294,178.98 Sta 4+36.67
 Course from W1704 to PC W172 N 2° 39' 58.60" E Dist 3.47
 =====
 Curve Data

 Curve W172
 P.I. Station 4+59.84 N 10,535,811.30 E 3,294,180.06
 Delta = 4° 30' 52.38" (LT)
 Degree = 11° 27' 32.96"
 Tangent = 19.71
 Length = 39.40
 Radius = 500.00
 External = 0.39
 Long Chord = 39.39
 Mid. Ord. = 0.39
 P.C. Station 4+40.13 N 10,535,791.61 E 3,294,179.14
 P.T. Station 4+79.53 N 10,535,831.00 E 3,294,179.42
 C.C. N 10,535,814.87 E 3,293,679.68
 Back = N 2° 39' 58.60" E
 Ahead = N 1° 50' 53.78" W
 Chord Bear = N 0° 24' 32.41" E
 Course from PT W172 to W1705 N 1° 50' 53.79" W Dist 5.22
 Point W1705 N 10,535,836.22 E 3,294,179.25 Sta 4+84.75
 Course from W1705 to W1706 N 46° 50' 53.78" W Dist 111.11
 Point W1706 N 10,535,912.20 E 3,294,098.20 Sta 5+95.86
 Course from W1706 to W1707 S 88° 09' 06.21" W Dist 6.01
 Point W1707 N 10,535,912.01 E 3,294,092.19 Sta 6+01.87
 =====
 Ending chain W17 description
 =====
 <* 8 Describe Chain W18
 Chain W18 contains:
 W1801 CUR W181 W1802 W1803 W1804 W1805 CUR W182 W1806
 Beginning chain W18 description
 =====
 Point W1801 N 10,534,116.60 E 3,293,616.32 Sta 0+00.00
 Course from W1801 to PC W181 N 88° 07' 31.29" E Dist 4.93
 =====
 Curve Data

 Curve W181
 P.I. Station 0+08.22 N 10,534,116.87 E 3,293,624.54
 Delta = 0° 45' 17.84" (LT)
 Degree = 11° 27' 32.96"
 Tangent = 3.29
 Length = 6.59
 Radius = 500.00
 External = 0.01
 Long Chord = 6.59
 Mid. Ord. = 0.01
 P.C. Station 0+04.93 N 10,534,116.76 E 3,293,621.25
 P.T. Station 0+11.52 N 10,534,117.02 E 3,293,627.83
 C.C. N 10,534,616.50 E 3,293,604.89
 Back = N 88° 07' 31.29" E
 Ahead = N 87° 22' 13.44" E
 Chord Bear = N 87° 44' 52.37" E
 Course from PT W181 to W1802 N 87° 22' 13.46" E Dist 2.26
 Point W1802 N 10,534,117.13 E 3,293,630.09 Sta 0+13.78
 Course from W1802 to W1803 S 47° 37' 46.56" E Dist 477.92
 Point W1803 N 10,533,795.05 E 3,293,983.18 Sta 4+91.70
 Course from W1803 to W1804 S 70° 07' 46.56" E Dist 38.36

HORIZONTAL ALIGNMENT DATA

Point W1804 N 10,533,782.01 E 3,294,019.25 Sta 5+30.06
 Course from W1804 to W1805 S 25° 07' 46.52" E Dist 1.50
 Point W1805 N 10,533,780.65 E 3,294,019.89 Sta 5+31.56
 Course from W1805 to PC W182 S 13° 52' 46.56" E Dist 5.00
 =====
 Curve Data

 Curve W182
 P.I. Station 5+39.85 N 10,533,772.60 E 3,294,021.88
 Delta = 0° 45' 21.34" (RT)
 Degree = 11° 27' 32.96"
 Tangent = 3.30
 Length = 6.60
 Radius = 500.00
 External = 0.01
 Long Chord = 6.60
 Mid. Ord. = 0.01
 P.C. Station 5+36.56 N 10,533,775.80 E 3,294,021.09
 P.T. Station 5+43.15 N 10,533,769.38 E 3,294,022.63
 C.C. N 10,533,655.86 E 3,293,535.69
 Back = S 13° 52' 46.56" E
 Ahead = S 13° 07' 25.22" E
 Chord Bear = S 13° 30' 05.89" E
 Course from PT W182 to W1806 S 13° 07' 25.22" E Dist 7.77
 Point W1806 N 10,533,761.82 E 3,294,024.39 Sta 5+50.92
 =====
 Ending chain W18 description
 =====
 <* 9 Describe Chain W19
 Chain W19 contains:
 W1901 W1902 W1903
 Beginning chain W19 description
 =====
 Point W1901 N 10,537,234.57 E 3,294,527.35 Sta 0+00.00
 Course from W1901 to W1902 S 47° 13' 46.62" E Dist 47.38
 Point W1902 N 10,537,202.39 E 3,294,562.13 Sta 0+47.38
 Course from W1902 to W1903 S 47° 13' 46.63" E Dist 418.36
 Point W1903 N 10,536,918.30 E 3,294,869.24 Sta 4+65.74
 =====
 Ending chain W19 description
 =====
 <* 10 Describe Chain W20
 Chain W20 contains:
 W2001 W2002 CUR W201 CUR W202 W2003 W2004 W2005
 Beginning chain W20 description
 =====
 Point W2001 N 10,535,842.52 E 3,294,172.53 Sta 0+00.00
 Course from W2001 to W2002 N 43° 09' 06.22" E Dist 22.57
 Point W2002 N 10,535,858.98 E 3,294,187.97 Sta 0+22.57
 Course from W2002 to PC W201 N 20° 39' 06.22" E Dist 62.48
 =====
 Curve Data

 Curve W201
 P.I. Station 1+14.17 N 10,535,944.70 E 3,294,220.27
 Delta = 6° 39' 57.05" (LT)
 Degree = 11° 27' 32.96"
 Tangent = 29.12
 Length = 58.17
 Radius = 500.00
 External = 0.85
 Long Chord = 58.14
 Mid. Ord. = 0.85
 P.C. Station 0+85.05 N 10,535,917.45 E 3,294,210.01
 P.T. Station 1+43.22 N 10,535,972.95 E 3,294,227.31
 C.C. N 10,536,093.79 E 3,293,742.13
 Back = N 20° 39' 06.22" E
 Ahead = N 13° 59' 09.16" E
 Chord Bear = N 17° 19' 07.69" E
 Course from PT W201 to PC W202 N 13° 59' 09.16" E Dist 296.37
 =====
 Curve Data

 Curve W202
 P.I. Station 4+45.04 N 10,536,265.82 E 3,294,300.26
 Delta = 1° 14' 52.13" (RT)
 Degree = 11° 27' 32.96"
 Tangent = 5.44
 Length = 10.89
 Radius = 500.00
 External = 0.03
 Long Chord = 10.89
 Mid. Ord. = 0.03
 P.C. Station 4+39.59 N 10,536,260.54 E 3,294,298.94
 P.T. Station 4+50.48 N 10,536,271.07 E 3,294,301.69
 C.C. N 10,536,139.69 E 3,294,784.12
 Back = N 13° 59' 09.16" E
 Ahead = N 15° 14' 01.30" E
 Chord Bear = N 14° 36' 35.23" E
 Course from PT W202 to W2003 N 15° 14' 01.30" E Dist 18.85
 Point W2003 N 10,536,289.26 E 3,294,306.64 Sta 4+69.33
 Course from W2003 to W2004 N 7° 15' 58.70" W Dist 45.87
 Point W2004 N 10,536,334.76 E 3,294,300.84 Sta 5+15.20
 Course from W2004 to W2005 N 50° 45' 58.70" W Dist 8.52
 Point W2005 N 10,536,340.15 E 3,294,294.24 Sta 5+23.72
 =====
 Ending chain W20 description
 =====

<* 13 Describe Chain WB121
 Chain WB121 contains:
 WB12101 WB12102 WB12103
 Beginning chain WB121 description
 =====
 Point WB12101 N 10,535,357.40 E 3,293,954.41 Sta 0+00.00
 Course from WB12101 to WB12102 N 86° 14' 39.20" E Dist 7.67
 Point WB12102 N 10,535,357.90 E 3,293,962.06 Sta 0+07.67
 Course from WB12102 to WB12103 N 41° 14' 39.19" E Dist 56.25
 Point WB12103 N 10,535,400.19 E 3,293,999.15 Sta 0+63.92
 =====
 Ending chain WB121 description
 <* 14 Describe Chain WB122
 Chain WB122 contains:
 WB12201 WB12202 WB12203
 Beginning chain WB122 description
 =====
 Point WB12201 N 10,535,428.71 E 3,294,004.72 Sta 0+00.00
 Course from WB12201 to WB12202 N 48° 45' 20.82" W Dist 66.48
 Point WB12202 N 10,535,472.53 E 3,293,954.73 Sta 0+66.48
 Course from WB12202 to WB12203 N 3° 45' 20.82" W Dist 11.42
 Point WB12203 N 10,535,483.93 E 3,293,953.98 Sta 0+77.90
 =====
 Ending chain WB122 description
 =====
 <* 15 Describe Chain WB131
 Chain WB131 contains:
 WB13101 WB13102
 Beginning chain WB131 description
 =====
 Point WB13101 N 10,535,357.90 E 3,293,962.06 Sta 0+00.00
 Course from WB13101 to WB13102 N 41° 14' 39.19" E Dist 56.25
 Point WB13102 N 10,535,400.19 E 3,293,999.15 Sta 0+56.25
 =====
 Ending chain WB131 description
 =====
 <* 16 Describe Chain WB141
 Chain WB141 contains:
 WB14101 WB14102 WB14103
 Beginning chain WB141 description
 =====
 Point WB14101 N 10,535,416.24 E 3,294,553.41 Sta 0+00.00
 Course from WB14101 to WB14102 S 46° 46' 35.30" E Dist 5.00
 Point WB14102 N 10,535,412.82 E 3,294,557.05 Sta 0+05.00
 Course from WB14102 to WB14103 N 43° 13' 24.70" E Dist 36.47
 Point WB14103 N 10,535,439.40 E 3,294,582.03 Sta 0+41.47
 =====
 Ending chain WB141 description
 =====
 <* 17 Describe Chain WB15
 Chain WB15 contains:
 WB1501 WB1502 WB1503 WB1504
 Beginning chain WB15 description
 =====
 Point WB1501 N 10,535,798.31 E 3,294,103.82 Sta 0+00.00
 Course from WB1501 to WB1502 N 88° 09' 06.23" E Dist 2.64
 Point WB1502 N 10,535,798.39 E 3,294,106.45 Sta 0+02.64
 Course from WB1502 to WB1503 N 43° 09' 06.22" E Dist 77.39
 Point WB1503 N 10,535,854.85 E 3,294,159.38 Sta 0+80.02
 Course from WB1503 to WB1504 S 46° 50' 53.76" E Dist 0.94
 Point WB1504 N 10,535,854.21 E 3,294,160.06 Sta 0+80.96
 =====
 Ending chain WB15 description
 =====
 <* 18 Describe Chain WB152
 Chain WB152 contains:
 WB15201 WB15202 WB15203
 Beginning chain WB152 description
 =====
 Point WB15201 N 10,535,875.36 E 3,294,137.50 Sta 0+00.00
 Course from WB15201 to WB15202 N 43° 09' 06.23" E Dist 7.83
 Point WB15202 N 10,535,881.07 E 3,294,142.86 Sta 0+07.83
 Course from WB15202 to WB15203 N 43° 09' 06.22" E Dist 9.55
 Point WB15203 N 10,535,888.03 E 3,294,149.38 Sta 0+17.37
 =====
 Ending chain WB152 description
 =====

NO.	DATE	REVISION	APPROVED

MATT WOLFE
 136362
 07/17/2024

Texas Department of Transportation
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LINA T. RAMEY & ASSOCIATES, INC.
 3320 Belt Line Rd
 Farmers Branch, Texas 75234
 Firm Registration No. F-782

IH 35 FROM S LP 340 TO 12TH ST

HORIZONTAL ALIGNMENT DATA

SHEET 6 OF 10




FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1064	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

HORIZONTAL ALIGNMENT DATA

<* 19 Describe Chain WB161
 Chain WB161 contains:
 WB16101 WB16102 WB16103
 Beginning chain WB161 description
 Point WB16101 N 10,537,020.24 E 3,294,963.53 Sta 0+00.00
 Course from WB16101 to WB16102 S 47° 13' 46.63" E Dist 121.04
 Point WB16102 N 10,536,938.04 E 3,295,052.38 Sta 1+21.04
 Course from WB16102 to WB16103 N 87° 46' 13.39" E Dist 7.65
 Point WB16103 N 10,536,938.34 E 3,295,060.03 Sta 1+28.69
 Ending chain WB161 description
 <* 20 Describe Chain WB162
 Chain WB162 contains:
 WB16201 WB16202 WB16203
 Beginning chain WB162 description
 Point WB16201 N 10,537,047.69 E 3,294,988.93 Sta 0+00.00
 Course from WB16201 to WB16202 N 47° 13' 46.63" W Dist 21.93
 Point WB16202 N 10,537,062.59 E 3,294,972.83 Sta 0+21.93
 Course from WB16202 to WB16203 N 47° 13' 46.62" W Dist 19.92
 Point WB16203 N 10,537,076.11 E 3,294,958.21 Sta 0+41.85
 Ending chain WB162 description
 <* 21 Describe Chain WB171
 Chain WB171 contains:
 WB17101 WB17102 WB17103
 Beginning chain WB171 description
 Point WB17101 N 10,535,798.31 E 3,294,103.82 Sta 0+00.00
 Course from WB17101 to WB17102 N 88° 09' 06.23" E Dist 2.64
 Point WB17102 N 10,535,798.39 E 3,294,106.45 Sta 0+02.64
 Course from WB17102 to WB17103 N 43° 09' 06.22" E Dist 77.39
 Point WB17103 N 10,535,854.85 E 3,294,159.38 Sta 0+80.02
 Ending chain WB171 description
 <* 22 Describe Chain WB31
 Chain WB31 contains:
 WB3101 WB3102 WB3103 CUR WB311 WB3104 WB3105
 Beginning chain WB31 description
 Point WB3101 N 10,529,252.94 E 3,291,603.61 Sta 0+00.00
 Course from WB3101 to WB3102 N 63° 44' 59.91" W Dist 2.59
 Point WB3102 N 10,529,254.09 E 3,291,601.29 Sta 0+02.59
 Course from WB3102 to WB3103 N 18° 44' 59.94" W Dist 20.73
 Point WB3103 N 10,529,273.71 E 3,291,594.63 Sta 0+23.31
 Course from WB3103 to PC WB311 N 41° 14' 59.93" W Dist 9.85
 Curve WB311
 P.I. Station 0+52.34 N 10,529,295.53 E 3,291,575.49
 Delta = 7° 18' 47.37" (LT)
 Degree = 19° 05' 54.94"
 Tangent = 19.17
 Length = 38.29
 Radius = 300.00
 External = 0.61
 Long Chord = 38.27
 Mid. Ord. = 0.61
 P.C. Station 0+33.16 N 10,529,281.12 E 3,291,588.13
 P.T. Station 0+71.46 N 10,529,308.22 E 3,291,561.12
 C.C. Station 0+11.97 N 10,529,083.32 E 3,291,362.58
 Back = N 41° 14' 59.94" W
 Ahead = N 48° 33' 47.31" W
 Chord Bear = N 44° 54' 23.62" W
 Course from PT WB311 to WB3104 N 48° 33' 47.31" W Dist 19.08
 Point WB3104 N 10,529,320.84 E 3,291,546.82 Sta 0+90.53
 Course from WB3104 to WB3105 N 41° 26' 12.70" E Dist 8.67
 Point WB3105 N 10,529,327.34 E 3,291,552.56 Sta 0+99.20
 Ending chain WB31 description

<* 23 Describe Chain WB32
 Chain WB32 contains:
 WB3201 WB3202 WB3203 WB3204 CUR WB321 WB3205 WB3206 WB3207 WB3208
 Beginning chain WB32 description
 Point WB3201 N 10,529,549.58 E 3,291,759.49 Sta 0+00.00
 Course from WB3201 to WB3202 N 53° 28' 45.71" W Dist 1.61
 Point WB3202 N 10,529,550.54 E 3,291,758.20 Sta 0+01.61
 Course from WB3202 to WB3203 N 8° 28' 45.65" W Dist 6.93
 Point WB3203 N 10,529,557.39 E 3,291,757.18 Sta 0+08.54
 Course from WB3203 to WB3204 N 30° 58' 45.65" W Dist 1.07
 Point WB3204 N 10,529,558.31 E 3,291,756.63 Sta 0+09.61
 Course from WB3204 to PC WB321 N 42° 13' 45.65" W Dist 9.69
 Curve WB321
 P.I. Station 0+52.79 N 10,529,590.29 E 3,291,727.60
 Delta = 3° 50' 12.17" (LT)
 Degree = 5° 43' 46.48"
 Tangent = 33.49
 Length = 66.96
 Radius = 1,000.00
 External = 0.56
 Long Chord = 66.95
 Mid. Ord. = 0.56
 P.C. Station 0+19.30 N 10,529,565.48 E 3,291,750.11
 P.T. Station 0+86.26 N 10,529,613.53 E 3,291,703.48
 C.C. Station 0+52.79 N 10,528,893.38 E 3,291,009.65
 Back = N 42° 13' 45.65" W
 Ahead = N 46° 03' 57.82" W
 Chord Bear = N 44° 08' 51.74" W
 Course from PT WB321 to WB3205 N 46° 03' 57.82" W Dist 14.36
 Point WB3205 N 10,529,623.49 E 3,291,693.14 Sta 1+00.63
 Course from WB3205 to WB3206 N 1° 03' 57.82" W Dist 2.04
 Point WB3206 N 10,529,625.53 E 3,291,693.10 Sta 1+02.66
 Course from WB3206 to WB3207 N 43° 56' 02.18" E Dist 26.75
 Point WB3207 N 10,529,644.79 E 3,291,711.66 Sta 1+29.42
 Course from WB3207 to WB3208 N 1° 03' 57.82" W Dist 1.41
 Point WB3208 N 10,529,646.21 E 3,291,711.64 Sta 1+30.83
 Ending chain WB32 description
 <* 24 Describe Chain WB33
 Chain WB33 contains:
 WB3301 WB3302 CUR WB331 WB3303 WB3304
 Beginning chain WB33 description
 Point WB3301 N 10,529,834.53 E 3,291,927.29 Sta 0+00.00
 Course from WB3301 to WB3302 N 60° 08' 50.26" W Dist 6.91
 Point WB3302 N 10,529,837.97 E 3,291,921.29 Sta 0+06.91
 Course from WB3302 to PC WB331 N 48° 53' 50.25" W Dist 11.05
 Curve WB331
 P.I. Station 0+26.16 N 10,529,850.63 E 3,291,906.79
 Delta = 0° 56' 23.63" (RT)
 Degree = 5° 43' 46.48"
 Tangent = 8.20
 Length = 16.40
 Radius = 1,000.00
 External = 0.03
 Long Chord = 16.40
 Mid. Ord. = 0.03
 P.C. Station 0+17.96 N 10,529,845.24 E 3,291,912.97
 P.T. Station 0+34.36 N 10,529,856.12 E 3,291,900.69
 C.C. Station 0+26.16 N 10,530,598.77 E 3,292,570.38
 Back = N 48° 53' 50.25" W
 Ahead = N 47° 57' 26.62" W
 Chord Bear = N 48° 25' 38.44" W
 Course from PT WB331 to WB3303 N 47° 57' 26.62" W Dist 11.05
 Point WB3303 N 10,529,863.52 E 3,291,892.49 Sta 0+45.41
 Course from WB3303 to WB3304 N 42° 02' 33.38" E Dist 29.84
 Point WB3304 N 10,529,885.68 E 3,291,912.47 Sta 0+75.25
 Ending chain WB33 description

<* 25 Describe Chain WB34
 Chain WB34 contains:
 WB3401 WB3402 WB3403 CUR WB341 WB3404 WB3405
 Beginning chain WB34 description
 Point WB3401 N 10,530,104.12 E 3,292,066.89 Sta 0+00.00
 Course from WB3401 to WB3402 N 64° 50' 29.73" W Dist 2.24
 Point WB3402 N 10,530,105.07 E 3,292,064.87 Sta 0+02.24
 Course from WB3402 to WB3403 N 19° 50' 29.67" W Dist 9.59
 Point WB3403 N 10,530,114.09 E 3,292,061.61 Sta 0+11.82
 Course from WB3403 to PC WB341 N 42° 20' 29.68" W Dist 1.51
 Curve Data
 Curve WB341
 P.I. Station 0+27.41 N 10,530,125.61 E 3,292,051.11
 Delta = 8° 03' 10.47" (LT)
 Degree = 28° 38' 52.40"
 Tangent = 14.08
 Length = 28.11
 Radius = 200.00
 External = 0.49
 Long Chord = 28.09
 Mid. Ord. = 0.49
 P.C. Station 0+13.33 N 10,530,115.21 E 3,292,060.59
 P.T. Station 0+41.44 N 10,530,134.59 E 3,292,040.27
 C.C. Station 0+27.41 N 10,529,980.50 E 3,291,912.77
 Back = N 42° 20' 29.67" W
 Ahead = N 50° 23' 40.15" W
 Chord Bear = N 46° 22' 04.91" W
 Course from PT WB341 to WB3404 N 50° 23' 40.14" W Dist 10.00
 Point WB3404 N 10,530,140.96 E 3,292,032.56 Sta 0+51.44
 Course from WB3404 to WB3405 N 39° 36' 19.85" E Dist 31.43
 Point WB3405 N 10,530,165.18 E 3,292,052.60 Sta 0+82.88
 Ending chain WB34 description
 <* 26 Describe Chain WB35
 Chain WB35 contains:
 WB3501 WB3502 CUR WB351 WB3503 WB3504
 Beginning chain WB35 description
 Point WB3501 N 10,532,212.34 E 3,292,905.16 Sta 0+00.00
 Course from WB3501 to WB3502 N 51° 19' 52.87" W Dist 10.79
 Point WB3502 N 10,532,219.09 E 3,292,896.74 Sta 0+10.79
 Course from WB3502 to PC WB351 S 83° 40' 07.14" W Dist 14.43
 Curve Data
 Curve WB351
 P.I. Station 0+52.87 N 10,532,214.45 E 3,292,854.91
 Delta = 10° 31' 52.07" (RT)
 Degree = 19° 05' 54.94"
 Tangent = 27.65
 Length = 55.14
 Radius = 300.00
 External = 1.27
 Long Chord = 55.06
 Mid. Ord. = 1.27
 P.C. Station 0+25.23 N 10,532,217.49 E 3,292,882.39
 P.T. Station 0+80.37 N 10,532,216.47 E 3,292,827.34
 C.C. Station 0+52.87 N 10,532,515.66 E 3,292,849.31
 Back = S 83° 40' 07.13" W
 Ahead = N 85° 48' 00.80" W
 Chord Bear = S 88° 56' 03.16" W
 Course from PT WB351 to WB3503 N 85° 48' 00.80" W Dist 24.57
 Point WB3503 N 10,532,218.27 E 3,292,802.83 Sta 1+04.94
 Course from WB3503 to WB3504 N 40° 48' 00.80" W Dist 7.81
 Point WB3504 N 10,532,224.18 E 3,292,797.73 Sta 1+12.74
 Ending chain WB35 description
 <* 27 Describe Chain WB36
 Chain WB36 contains:
 WB3601 WB3602 WB3603 WB3604
 Beginning chain WB36 description
 Point WB3601 N 10,529,056.87 E 3,291,436.57 Sta 0+00.00
 Course from WB3601 to WB3602 N 2° 10' 36.32" W Dist 4.24
 Point WB3602 N 10,529,061.11 E 3,291,436.41 Sta 0+04.24
 Course from WB3602 to WB3603 N 42° 49' 23.67" E Dist 34.73
 Point WB3603 N 10,529,086.59 E 3,291,460.02 Sta 0+38.97
 Course from WB3603 to WB3604 N 42° 49' 23.73" E Dist 0.94
 Point WB3604 N 10,529,087.27 E 3,291,460.66 Sta 0+39.91
 Ending chain WB36 description

NO.	DATE	REVISION	APPROVED
 07/17/2024			
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 LINA T. RAMEY & ASSOCIATES, INC. 3320 Belt Line Rd Farmers Branch, Texas 75234 Firm Registration No. F-782			
IH 35 FROM S LP 340 TO 12TH ST HORIZONTAL ALIGNMENT DATA			
SHEET 7 OF 10			
FED. RD. DIV. NO. 6	PROJECT NO. SEE TITLE SHEET	SHEET NO. 1065	
STATE TEXAS	DIST. WACO	COUNTY MCLENNAN	
CONT. 0015	SECT. 01	JOB 246, ETC	HIGHWAY NO. IH 35

FILE: pwt\pw-int.hntb.org\p\Central\Documents\Dallas Projects\68651 Waco IH 35 4C\CAD\Sheets\06 - Utilities\IH35-Curve-Data-7.dgn
 DATE: 7/17/2024 5:43:52 PM
 USER: Untitled Workspace

HORIZONTAL ALIGNMENT DATA

<* 28 Describe Chain WB41

Chain WB41 contains:
WB4101 WB4102 WB4103 CUR WB411 WB4104 WB4105

Beginning chain WB41 description

Point WB4101 N 10,529,285.45 E 3,292,091.52 Sta 0+00.00
Course from WB4101 to WB4102 N 46° 56' 57.78" W Dist 34.54
Point WB4102 N 10,529,309.03 E 3,292,066.28 Sta 0+34.54
Course from WB4102 to WB4103 N 1° 56' 57.78" W Dist 2.24
Point WB4103 N 10,529,311.27 E 3,292,066.21 Sta 0+36.79
Course from WB4103 to PC WB411 N 20° 33' 02.22" E Dist 4.00

Curve Data

Curve WB411
P. I. Station 0+53.15 N 10,529,326.59 E 3,292,071.95
Delta = 4° 43' 12.14" (RT)
Degree = 19° 05' 54.94"
Tangent = 12.36
Length = 24.71
Radius = 300.00
External = 0.25
Long Chord = 24.71
Mid. Ord. = 0.25
P. C. Station 0+40.79 N 10,529,315.01 E 3,292,067.61
P. T. Station 0+65.50 N 10,529,337.77 E 3,292,077.23
C. C. 10,529,209.70 E 3,292,348.52
Back = N 20° 33' 02.22" E
Ahead = N 25° 16' 14.36" E
Chord Bear = N 22° 54' 38.29" E

Course from PT WB411 to WB4104 N 25° 16' 14.36" E Dist 49.17

Point WB4104 N 10,529,382.24 E 3,292,098.22 Sta 1+14.67
Course from WB4104 to WB4105 N 19° 43' 45.64" W Dist 5.00
Point WB4105 N 10,529,386.95 E 3,292,096.53 Sta 1+19.67

Ending chain WB41 description

<* Describe Chain WB141

Chain WB141 contains:
WB14101 WB14102 CUR WB1411 WB14103 CUR WB1412 WB14104 WB14105

Beginning chain WB141 description

Point WB14101 N 10,535,927.48 E 3,294,602.28 Sta 0+00.00
Course from WB14101 to WB14102 S 76° 14' 27.38" E Dist 2.00
Point WB14102 N 10,535,927.00 E 3,294,604.22 Sta 0+02.00
Course from WB14102 to PC WB1411 N 81° 15' 32.59" E Dist 2.43

Curve Data

Curve WB1411
P. I. Station 0+17.55 N 10,535,929.36 E 3,294,619.59
Delta = 3° 00' 27.98" (RT)
Degree = 11° 27' 32.96"
Tangent = 13.13
Length = 26.25
Radius = 500.00
External = 0.17
Long Chord = 26.24
Mid. Ord. = 0.17
P. C. Station 0+04.43 N 10,535,927.37 E 3,294,606.62
P. T. Station 0+30.67 N 10,535,930.68 E 3,294,632.65
C. C. 10,535,433.18 E 3,294,682.60
Back = N 81° 15' 32.60" E
Ahead = N 84° 16' 00.58" E
Chord Bear = N 82° 45' 46.59" E

Course from PT WB1411 to WB14103 N 84° 16' 00.55" E Dist 1.44

Point WB14103 N 10,535,930.82 E 3,294,634.08 Sta 0+32.11
Course from WB14103 to PC WB1412 S 50° 43' 59.36" E Dist 2.00

Curve Data

Curve WB1412
P. I. Station 0+49.38 N 10,535,919.89 E 3,294,647.46
Delta = 3° 30' 00.00" (RT)
Degree = 11° 27' 32.96"
Tangent = 15.28
Length = 30.54
Radius = 500.00
External = 0.23
Long Chord = 30.54
Mid. Ord. = 0.23
P. C. Station 0+34.11 N 10,535,929.56 E 3,294,635.63
P. T. Station 0+64.65 N 10,535,909.51 E 3,294,658.67
C. C. 10,535,542.45 E 3,294,319.16
Back = S 50° 43' 59.42" E
Ahead = S 47° 13' 59.42" E
Chord Bear = S 48° 58' 59.42" E

Course from PT WB1412 to WB14104 S 47° 13' 59.42" E Dist 1.03

Point WB14104 N 10,535,908.81 E 3,294,659.43 Sta 0+65.68
Course from WB14104 to WB14105 N 87° 46' 00.58" E Dist 12.12
Point WB14105 N 10,535,909.29 E 3,294,671.54 Sta 0+77.80

Ending chain WB141 description

<* 29 Describe Chain WW01

Chain WW01 contains:
WW0101 WW0102 WW0103 WW0104 WW0105 WW0106 WW0107 WW0108 WW0109 WW0110 WW0111

Beginning chain WW01 description

Point WW0101 N 10,529,230.73 E 3,291,610.36 Sta 0+00.00
Course from WW0101 to WW0102 N 25° 37' 04.75" E Dist 52.54
Point WW0102 N 10,529,278.11 E 3,291,633.08 Sta 0+52.54
Course from WW0102 to WW0103 N 28° 23' 00.36" E Dist 36.15
Point WW0103 N 10,529,309.91 E 3,291,650.27 Sta 0+88.70
Course from WW0103 to WW0104 N 28° 23' 00.36" E Dist 155.12
Point WW0104 N 10,529,446.38 E 3,291,724.00 Sta 2+43.81
Course from WW0104 to WW0105 N 30° 26' 51.15" E Dist 189.09
Point WW0105 N 10,529,609.39 E 3,291,819.82 Sta 4+32.90
Course from WW0105 to WW0106 N 29° 22' 31.76" E Dist 147.93
Point WW0106 N 10,529,738.31 E 3,291,892.39 Sta 5+80.83
Course from WW0106 to WW0107 N 27° 20' 07.56" E Dist 180.13
Point WW0107 N 10,529,898.32 E 3,291,975.10 Sta 7+60.96
Course from WW0107 to WW0108 N 25° 30' 44.80" E Dist 265.56
Point WW0108 N 10,530,137.99 E 3,292,089.48 Sta 10+26.52
Course from WW0108 to WW0109 N 25° 19' 39.75" E Dist 40.73
Point WW0109 N 10,530,174.80 E 3,292,106.91 Sta 10+67.25
Course from WW0109 to WW0110 S 25° 09' 01.06" W Dist 2.40
Point WW0110 N 10,530,172.63 E 3,292,105.89 Sta 10+69.65
Course from WW0110 to WW0111 N 25° 09' 01.06" E Dist 2.40
Point WW0111 N 10,530,174.80 E 3,292,106.91 Sta 10+72.05

Ending chain WW01 description

<* 30 Describe Chain WW02

Chain WW02 contains:
WW0201 WW0202 WW0203

Beginning chain WW02 description

Point WW0201 N 10,530,155.57 E 3,292,097.87 Sta 0+00.00
Course from WW0201 to WW0202 S 64° 50' 58.92" E Dist 2.85
Point WW0202 N 10,530,154.36 E 3,292,100.45 Sta 0+02.85
Course from WW0202 to WW0203 S 64° 50' 58.95" E Dist 312.02
Point WW0203 N 10,530,021.75 E 3,292,382.89 Sta 3+14.87

Ending chain WW02 description

<* 31 Describe Chain WW03

Chain WW03 contains:
WW0301 WW0302 WW0303 WW0304 WW0305 WW0306 WW0307 WW0308 WW0309 WW0310 WW0311

Beginning chain WW03 description

Point WW0301 N 10,528,943.45 E 3,291,890.20 Sta 0+01.26
Course from WW0301 to WW0302 N 23° 24' 02.76" E Dist 239.47
Point WW0302 N 10,529,163.22 E 3,291,985.31 Sta 2+40.73
Course from WW0302 to WW0303 N 22° 41' 39.63" E Dist 157.01
Point WW0303 N 10,529,308.07 E 3,292,045.88 Sta 3+97.73
Course from WW0303 to WW0304 N 22° 33' 54.82" E Dist 57.02
Point WW0304 N 10,529,360.73 E 3,292,067.76 Sta 4+54.76
Course from WW0304 to WW0305 N 25° 23' 59.42" E Dist 295.72
Point WW0305 N 10,529,627.86 E 3,292,194.61 Sta 7+50.48
Course from WW0305 to WW0306 N 25° 03' 48.73" E Dist 242.85
Point WW0306 N 10,529,847.85 E 3,292,297.48 Sta 9+93.33
Course from WW0306 to WW0307 N 22° 15' 20.49" E Dist 79.15
Point WW0307 N 10,529,921.10 E 3,292,327.46 Sta 10+72.48
Course from WW0307 to WW0308 N 28° 13' 31.96" E Dist 136.07
Point WW0308 N 10,530,040.99 E 3,292,391.81 Sta 12+08.55
Course from WW0308 to WW0309 N 30° 08' 25.80" E Dist 45.41
Point WW0309 N 10,530,080.26 E 3,292,414.62 Sta 12+53.96
Course from WW0309 to WW0310 N 30° 10' 26.89" E Dist 92.03
Point WW0310 N 10,530,159.82 E 3,292,460.87 Sta 13+45.99
Course from WW0310 to WW0311 N 59° 30' 34.08" E Dist 28.40
Point WW0311 N 10,530,174.23 E 3,292,485.34 Sta 13+74.38
Course from WW0311 to WW0312 N 42° 25' 51.08" E Dist 243.66
Point WW0312 N 10,530,354.07 E 3,292,649.74 Sta 16+18.04

Ending chain WW03 description

<* 32 Describe Chain WW04

Chain WW04 contains:
WW0401 WW0402 WW0403 WW0404 WW0405 WW0406 WW0407 WW0408 WW0409

Beginning chain WW04 description

Point WW0401 N 10,531,995.46 E 3,292,738.09 Sta 0+00.00
Course from WW0401 to WW0402 N 41° 48' 09.05" E Dist 180.16
Point WW0402 N 10,532,129.76 E 3,292,858.17 Sta 1+80.16
Point WW0403 N 10,532,129.76 E 3,292,858.17 Sta 1+80.16
Course from WW0403 to WW0404 N 34° 43' 24.58" E Dist 149.89
Point WW0404 N 10,532,252.95 E 3,292,943.55 Sta 3+30.05
Course from WW0404 to WW0405 N 19° 07' 18.82" E Dist 255.36
Point WW0405 N 10,532,494.22 E 3,293,027.20 Sta 5+85.40
Course from WW0405 to WW0406 N 19° 14' 03.40" E Dist 147.31
Point WW0406 N 10,532,633.31 E 3,293,075.73 Sta 7+32.72
Course from WW0406 to WW0407 N 19° 14' 03.40" E Dist 380.50
Point WW0407 N 10,532,992.57 E 3,293,201.08 Sta 11+13.22
Course from WW0407 to WW0408 N 3° 30' 42.92" E Dist 96.76
Point WW0408 N 10,533,089.15 E 3,293,207.01 Sta 12+09.98
Course from WW0408 to WW0409 N 25° 22' 31.75" W Dist 26.79
Point WW0409 N 10,533,113.36 E 3,293,195.53 Sta 12+36.77

Ending chain WW04 description

<* 33 Describe Chain WW05

Chain WW05 contains:
WW0501 WW0502 WW0503 WW0504 WW0505 WW0506

Beginning chain WW05 description

Point WW0501 N 10,532,493.60 E 3,293,028.95 Sta 0+00.00
Course from WW0501 to WW0502 S 70° 18' 02.02" E Dist 491.34
Point WW0502 N 10,532,327.98 E 3,293,491.53 Sta 4+91.34
Course from WW0502 to WW0503 N 34° 47' 33.67" E Dist 244.89
Point WW0503 N 10,532,529.08 E 3,293,631.27 Sta 7+36.23
Course from WW0503 to WW0504 N 36° 52' 34.50" E Dist 142.63

FILE: pwt\pw-int.hntb.org\PWCentral\Div\Projects\68651 Waco IH 35 4C\CAD\Sheets\06 - Util\Titles\IH35\Curve\Data\8.dgn
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Table with columns: NO., DATE, REVISION, APPROVED. Includes a circular seal for Matt Wolfe, State of Texas Professional Engineer, License No. 136362, dated 07/17/2024. Below the seal is the logo for LTRA (LINA T. RAMEY & ASSOCIATES, INC.) and the project title 'IH 35 FROM S LP 340 TO 12TH ST'. At the bottom, it says 'HORIZONTAL ALIGNMENT DATA' and 'SHEET 8 OF 10'. A small table at the very bottom contains project details: FED. RD. DIV. NO. 6, PROJECT NO. SEE TITLE SHEET, SHEET NO. 1066, STATE TEXAS, DIST. WACO, COUNTY MCLENNAN, CONT. SECT. 01, JOB 246, ETC, HIGHWAY NO. IH 35.

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HORIZONTAL ALIGNMENT DATA

Point WW0504 N 10,532,643.18 E 3,293,716.86 Sta 8+78.86
 Course from WW0504 to WW0505 S 54° 37' 01.39" E Dist 32.66
 Point WW0505 N 10,532,624.27 E 3,293,743.48 Sta 9+11.51
 Course from WW0505 to WW0506 N 38° 02' 02.67" E Dist 17.76
 Point WW0506 N 10,532,638.26 E 3,293,754.43 Sta 9+29.28
 Ending chain WW05 description
 <* 34 Describe Chain WW06
 Chain WW06 contains:
 WW0601 WW0602 WW0603
 Beginning chain WW06 description
 Point WW0601 N 10,534,115.64 E 3,293,604.61 Sta 0+40.42
 Course from WW0601 to WW0602 S 6° 38' 08.72" E Dist 36.45
 Point WW0602 N 10,534,079.43 E 3,293,608.82 Sta 0+76.87
 Course from WW0602 to WW0603 S 47° 37' 46.56" E Dist 439.81
 Point WW0603 N 10,533,783.04 E 3,293,933.75 Sta 5+16.68
 Ending chain WW06 description
 <* 35 Describe Chain WW07
 Chain WW07 contains:
 WW0701 WW0702 WW0703 WW0704 WW0705 WW0706 WW0707 WW0708 WW0709
 Beginning chain WW07 description
 Point WW0701 N 10,534,476.20 E 3,294,139.69 Sta 0+00.00
 Course from WW0701 to WW0702 N 16° 03' 19.76" E Dist 259.44
 Point WW0702 N 10,534,725.51 E 3,294,211.44 Sta 2+59.44
 Course from WW0702 to WW0703 N 19° 24' 05.51" E Dist 176.77
 Point WW0703 N 10,534,892.24 E 3,294,270.16 Sta 4+36.20
 Course from WW0703 to WW0704 N 19° 34' 43.10" E Dist 292.42
 Point WW0704 N 10,535,167.75 E 3,294,368.15 Sta 7+28.62
 Course from WW0704 to WW0705 N 18° 30' 30.77" E Dist 150.40
 Point WW0705 N 10,535,310.37 E 3,294,415.90 Sta 8+79.02
 Course from WW0705 to WW0706 N 18° 02' 00.33" E Dist 154.85
 Point WW0706 N 10,535,457.61 E 3,294,463.83 Sta 10+33.87
 Course from WW0706 to WW0707 N 17° 56' 08.53" E Dist 122.73
 Point WW0707 N 10,535,574.38 E 3,294,501.63 Sta 11+56.60
 Course from WW0707 to WW0708 N 17° 00' 06.43" E Dist 93.32
 Point WW0708 N 10,535,663.62 E 3,294,528.91 Sta 12+49.92
 Course from WW0708 to WW0709 N 42° 38' 41.89" E Dist 288.48
 Point WW0709 N 10,535,875.81 E 3,294,724.35 Sta 15+38.40
 Ending chain WW07 description
 <* 36 Describe Chain WW08
 Chain WW08 contains:
 WW0801 CUR WW0802 WW0803 WW0804 WW0805 WW0806 WW0807 WW0808 WW0809 WW0810
 WW0811 WW0812 WW0813 WW0814 WW0815 WW0816 WW0817 WW0818
 Beginning chain WW08 description
 Point WW0801 N 10,535,030.09 E 3,293,943.07 Sta 0+00.00
 Course from WW0801 to PC WW081 N 18° 48' 28.36" E Dist 11.14
 Curve Data

 Curve WW081
 P.I. Station 1+31.37 N 10,535,154.45 E 3,293,985.43
 Delta = 3° 26' 35.68" (RT)
 Degree = 1° 25' 56.62"
 Tangent = 120.23
 Length = 240.38
 Radius = 4,000.00
 External = 1.81
 Long Chord = 240.35
 Mid. Ord. = 1.81
 P.C. Station 0+11.14 N 10,535,040.64 E 3,293,946.67
 P.T. Station 2+51.53 N 10,535,265.72 E 3,294,030.95
 C.C. = N 10,533,751.06 E 3,297,733.09
 Back = N 18° 48' 28.36" E
 Ahead = N 22° 15' 04.04" E
 Chord Bear = N 20° 31' 46.20" E
 Course from PT WW081 to WW0802 N 22° 15' 04.04" E Dist 16.29
 Point WW0802 N 10,535,280.80 E 3,294,037.12 Sta 2+67.81
 Course from WW0802 to WW0803 N 19° 59' 01.04" E Dist 83.41
 Point WW0803 N 10,535,359.19 E 3,294,065.63 Sta 3+51.22
 Course from WW0803 to WW0804 N 47° 22' 16.43" W Dist 66.96

Point WW0804 N 10,535,404.53 E 3,294,016.36 Sta 4+18.18
 Course from WW0804 to WW0805 N 47° 22' 16.43" W Dist 209.47
 Point WW0805 N 10,535,546.40 E 3,293,862.24 Sta 6+27.65
 Course from WW0805 to WW0806 N 42° 37' 43.57" E Dist 412.81
 Point WW0806 N 10,535,850.12 E 3,294,141.82 Sta 10+40.46
 Course from WW0806 to WW0807 N 43° 17' 09.50" E Dist 62.13
 Point WW0807 N 10,535,895.35 E 3,294,184.41 Sta 11+02.59
 Course from WW0807 to WW0808 N 72° 20' 39.88" E Dist 32.74
 Point WW0808 N 10,535,905.28 E 3,294,215.61 Sta 11+35.33
 Course from WW0808 to WW0809 N 13° 59' 09.16" E Dist 322.80
 Point WW0809 N 10,536,218.51 E 3,294,293.62 Sta 14+58.13
 Course from WW0809 to WW0810 N 5° 45' 58.70" W Dist 33.71
 Point WW0810 N 10,536,252.04 E 3,294,290.24 Sta 14+91.83
 Course from WW0810 to WW0811 N 50° 45' 58.70" W Dist 49.71
 Point WW0811 N 10,536,283.48 E 3,294,251.73 Sta 15+41.54
 Course from WW0811 to WW0812 N 32° 27' 58.84" E Dist 56.80
 Point WW0812 N 10,536,331.40 E 3,294,282.22 Sta 15+98.34
 Course from WW0812 to WW0813 N 5° 45' 58.70" W Dist 255.52
 Point WW0813 N 10,536,585.64 E 3,294,256.55 Sta 18+53.86
 Course from WW0813 to WW0814 N 27° 59' 55.42" E Dist 77.59
 Point WW0814 N 10,536,654.15 E 3,294,292.98 Sta 19+31.45
 Course from WW0814 to WW0815 S 79° 40' 10.13" E Dist 126.00
 Point WW0815 N 10,536,631.55 E 3,294,416.94 Sta 20+57.46
 Course from WW0815 to WW0816 N 17° 16' 27.33" E Dist 309.51
 Point WW0816 N 10,536,927.10 E 3,294,508.84 Sta 23+66.97
 Course from WW0816 to WW0817 N 10° 13' 56.77" E Dist 114.51
 Point WW0817 N 10,537,039.79 E 3,294,529.19 Sta 24+81.48
 Course from WW0817 to WW0818 N 46° 34' 52.50" W Dist 37.31
 Point WW0818 N 10,537,065.43 E 3,294,502.09 Sta 25+18.79
 Ending chain WW08 description
 <* 37 Describe Chain WW09
 Chain WW09 contains:
 WW0901 WW0902 WW0903
 Beginning chain WW09 description
 Point WW0901 N 10,536,389.32 E 3,294,728.27 Sta 0+00.00
 Course from WW0901 to WW0902 N 14° 02' 21.85" E Dist 46.59
 Point WW0902 N 10,536,434.52 E 3,294,739.57 Sta 0+46.59
 Course from WW0902 to WW0903 N 14° 02' 21.85" E Dist 125.32
 Point WW0903 N 10,536,556.10 E 3,294,769.97 Sta 1+71.91
 Ending chain WW09 description
 <* 38 Describe Chain WWB11
 Chain WWB11 contains:
 WWB1101 WWB1102 WWB1103
 Beginning chain WWB11 description
 Point WWB1101 N 10,529,278.11 E 3,291,633.08 Sta 0+00.00
 Course from WWB1101 to WWB1102 N 61° 36' 59.63" W Dist 30.19
 Point WWB1102 N 10,529,292.46 E 3,291,606.52 Sta 0+30.19
 Course from WWB1102 to WWB1103 N 48° 48' 30.15" W Dist 57.16
 Point WWB1103 N 10,529,330.10 E 3,291,563.51 Sta 0+87.35
 Ending chain WWB11 description
 <* 39 Describe Chain WWB12
 Chain WWB12 contains:
 WWB1201 WWB1202 WWB1203
 Beginning chain WWB12 description
 Point WWB1201 N 10,529,609.39 E 3,291,819.82 Sta 0+00.00
 Course from WWB1201 to WWB1202 S 68° 39' 30.94" W Dist 12.73
 Point WWB1202 N 10,529,604.76 E 3,291,807.96 Sta 0+12.73
 Course from WWB1202 to WWB1203 S 68° 39' 30.94" W Dist 50.89
 Point WWB1203 N 10,529,586.24 E 3,291,760.56 Sta 0+63.63
 Ending chain WWB12 description

<* 40 Describe Chain WWB13
 Chain WWB13 contains:
 WWB1301 WWB1302 WWB1303
 Beginning chain WWB13 description
 Point WWB1301 N 10,529,898.32 E 3,291,975.10 Sta 0+00.00
 Course from WWB1301 to WWB1302 S 60° 21' 05.21" W Dist 28.04
 Point WWB1302 N 10,529,884.45 E 3,291,950.73 Sta 0+28.04
 Course from WWB1302 to WWB1303 S 60° 21' 05.20" W Dist 34.70
 Point WWB1303 N 10,529,867.28 E 3,291,920.58 Sta 0+62.74
 Ending chain WWB13 description
 <* 41 Describe Chain WWB14
 Chain WWB14 contains:
 WWB1401 WWB1402 WWB1403
 Beginning chain WWB14 description
 Point WWB1401 N 10,530,137.99 E 3,292,089.48 Sta 0+00.00
 Course from WWB1401 to WWB1402 N 64° 37' 01.62" W Dist 29.75
 Point WWB1402 N 10,530,150.74 E 3,292,062.60 Sta 0+29.75
 Course from WWB1402 to WWB1403 N 64° 37' 01.61" W Dist 29.75
 Point WWB1403 N 10,530,163.49 E 3,292,035.72 Sta 0+59.51
 Ending chain WWB14 description
 <* 42 Describe Chain WWB15
 Chain WWB15 contains:
 WWB1501 WWB1502
 Beginning chain WWB15 description
 Point WWB1501 N 10,532,129.76 E 3,292,858.17 Sta 0+00.00
 Course from WWB1501 to WWB1502 N 47° 46' 50.90" W Dist 132.89
 Point WWB1502 N 10,532,219.06 E 3,292,759.76 Sta 1+32.89
 Ending chain WWB15 description
 <* 43 Describe Chain WWB71
 Chain WWB71 contains:
 WWB7101 WWB7102 WWB7103
 Beginning chain WWB71 description
 Point WWB7101 N 10,535,216.78 E 3,294,498.13 Sta 0+00.00
 Course from WWB7101 to WWB7102 N 41° 18' 16.64" W Dist 74.84
 Point WWB7102 N 10,535,273.00 E 3,294,448.73 Sta 0+74.84
 Course from WWB7102 to WWB7103 N 41° 18' 16.64" W Dist 49.74
 Point WWB7103 N 10,535,310.37 E 3,294,415.90 Sta 1+24.59
 Ending chain WWB71 description
 <* 44 Describe Chain WWB81
 Chain WWB81 contains:
 WWB8101 WWB8102 WWB8103 WWB8104
 Beginning chain WWB81 description
 Point WWB8101 N 10,535,404.53 E 3,294,016.36 Sta 0+00.00
 Course from WWB8101 to WWB8102 N 41° 21' 17.02" E Dist 35.71
 Point WWB8102 N 10,535,431.33 E 3,294,039.96 Sta 0+35.71
 Course from WWB8102 to WWB8103 N 41° 21' 17.02" E Dist 72.09
 Point WWB8103 N 10,535,485.45 E 3,294,087.58 Sta 1+07.79
 Course from WWB8103 to WWB8104 N 33° 40' 51.33" E Dist 43.51
 Point WWB8104 N 10,535,521.65 E 3,294,111.72 Sta 1+51.31
 Ending chain WWB81 description

NO.	DATE	REVISION	APPROVED

07/17/2024

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LINA T. RAMEY & ASSOCIATES, INC.
3320 Belt Line Rd
Farmers Branch, Texas 75234
Firm Registration No. F-782

IH 35 FROM S LP 340 TO 12TH ST

HORIZONTAL ALIGNMENT DATA

SHEET 9 OF 10

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1067	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

HORIZONTAL ALIGNMENT DATA

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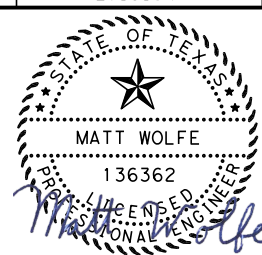
<* 45 Describe Chain WWB82
Chain WWB82 contains:
  WWB8201 WWB8202 WWB8203
Beginning chain WWB82 description
=====
Point WWB8201      N   10,536,246.24 E   3,294,232.74 Sta   0+00.00
Course from WWB8201 to WWB8202 N 84° 14' 01.30" E Dist 13.99
Point WWB8202      N   10,536,247.64 E   3,294,246.66 Sta   0+13.99
Course from WWB8202 to WWB8203 N 84° 14' 01.30" E Dist 43.80
Point WWB8203      N   10,536,252.04 E   3,294,290.24 Sta   0+57.79
=====
Ending chain WWB82 description

<* 46 Describe Chain WWB83
Chain WWB83 contains:
  WWB8301 WWB8302 WWB8303
Beginning chain WWB83 description
=====
Point WWB8301      N   10,536,318.90 E   3,294,241.32 Sta   0+00.00
Course from WWB8301 to WWB8302 N 72° 59' 57.17" E Dist 28.59
Point WWB8302      N   10,536,327.26 E   3,294,268.66 Sta   0+28.59
Course from WWB8302 to WWB8303 N 72° 59' 57.18" E Dist 14.18
Point WWB8303      N   10,536,331.40 E   3,294,282.22 Sta   0+42.77
=====
Ending chain WWB83 description


<* 47 Describe Chain WWB84
Chain WWB84 contains:
  WWB8401 WWB8402
Beginning chain WWB84 description
=====
Point WWB8401      N   10,536,583.73 E   3,294,239.00 Sta   0+00.00
Course from WWB8401 to WWB8402 N 83° 48' 10.98" E Dist 17.66
Point WWB8402      N   10,536,585.64 E   3,294,256.55 Sta   0+17.66
=====
Ending chain WWB84 description
  
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NO.	DATE	REVISION	APPROVED



07/17/2024



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 3320 Belt Line Rd
 Farmers Branch, Texas 75234
 Firm Registration No. F-782

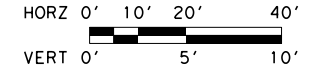
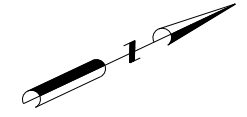
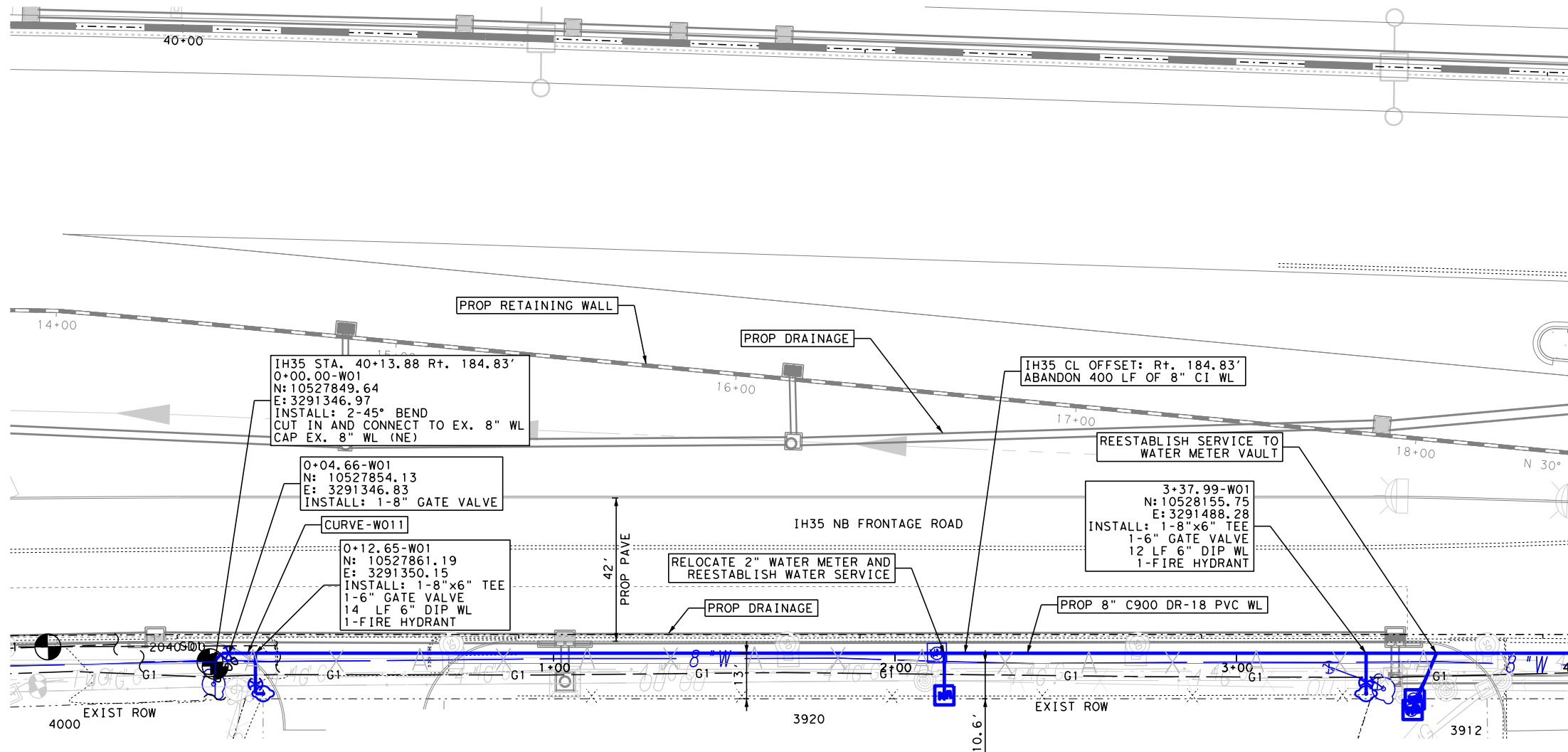
IH 35 FROM S LP 340 TO 12TH ST

HORIZONTAL ALIGNMENT DATA

SHEET 10 OF 10

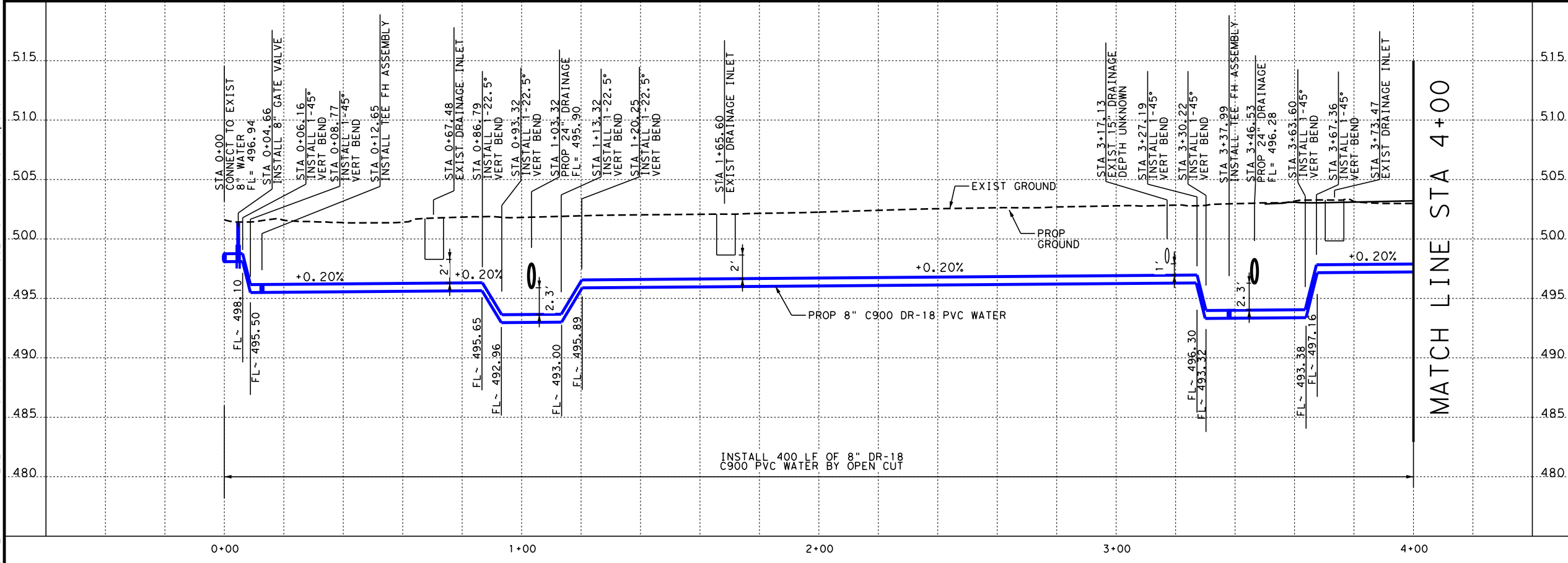
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6	SEE TITLE SHEET	1068
STATE	DIST.	COUNTY
TEXAS	WACO	McLENNAN
CONT.	SECT.	JOB HIGHWAY NO.
0015	01	246, ETC IH 35

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- NOTES:**
1. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 3. WATER SERVICE INTERRUPTIONS SHALL BE LESS THAN 8 HOURS AND TEMPORARY SERVICES SHALL BE PROVIDED IF NEEDED. 48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WACO PRIOR TO ANY SHUTDOWN.
 4. WATERLINE SEGMENTS SHALL BE CENTERED OVER WASTEWATER CROSSING PER TCEQ.
 5. EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 6. ALL SERVICES SHALL BE REESTABLISHED.
 7. A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
 8. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 9. EXISTING WATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.
 10. REMOVE ABANDONED WATER LINE WITHIN 4\"/>

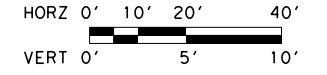
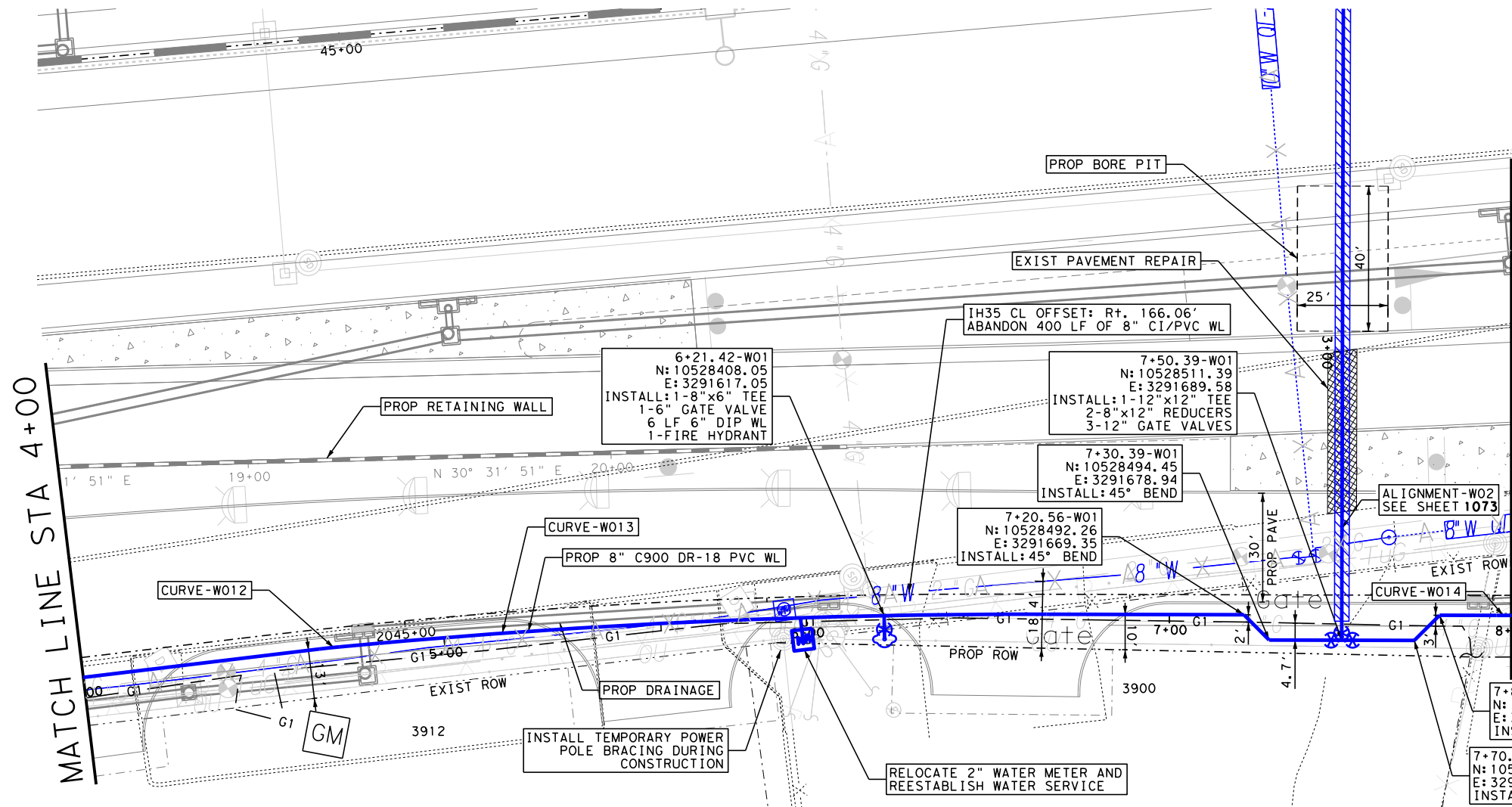
MATCH LINE STA 4+00



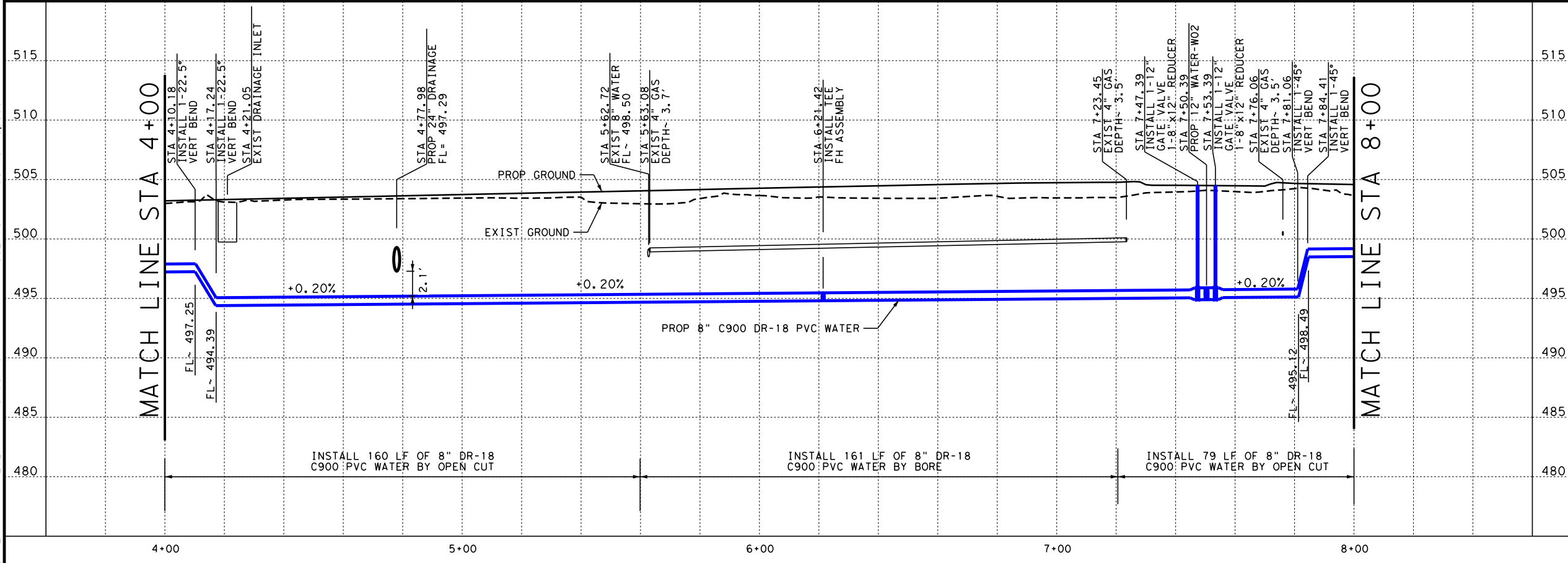
MATCH LINE STA 4+00

NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "01" PLAN AND PROFILE STA 0+00 TO STA 4+00			
SHEET 1 OF 4			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1069	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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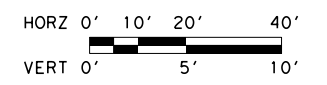
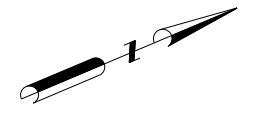
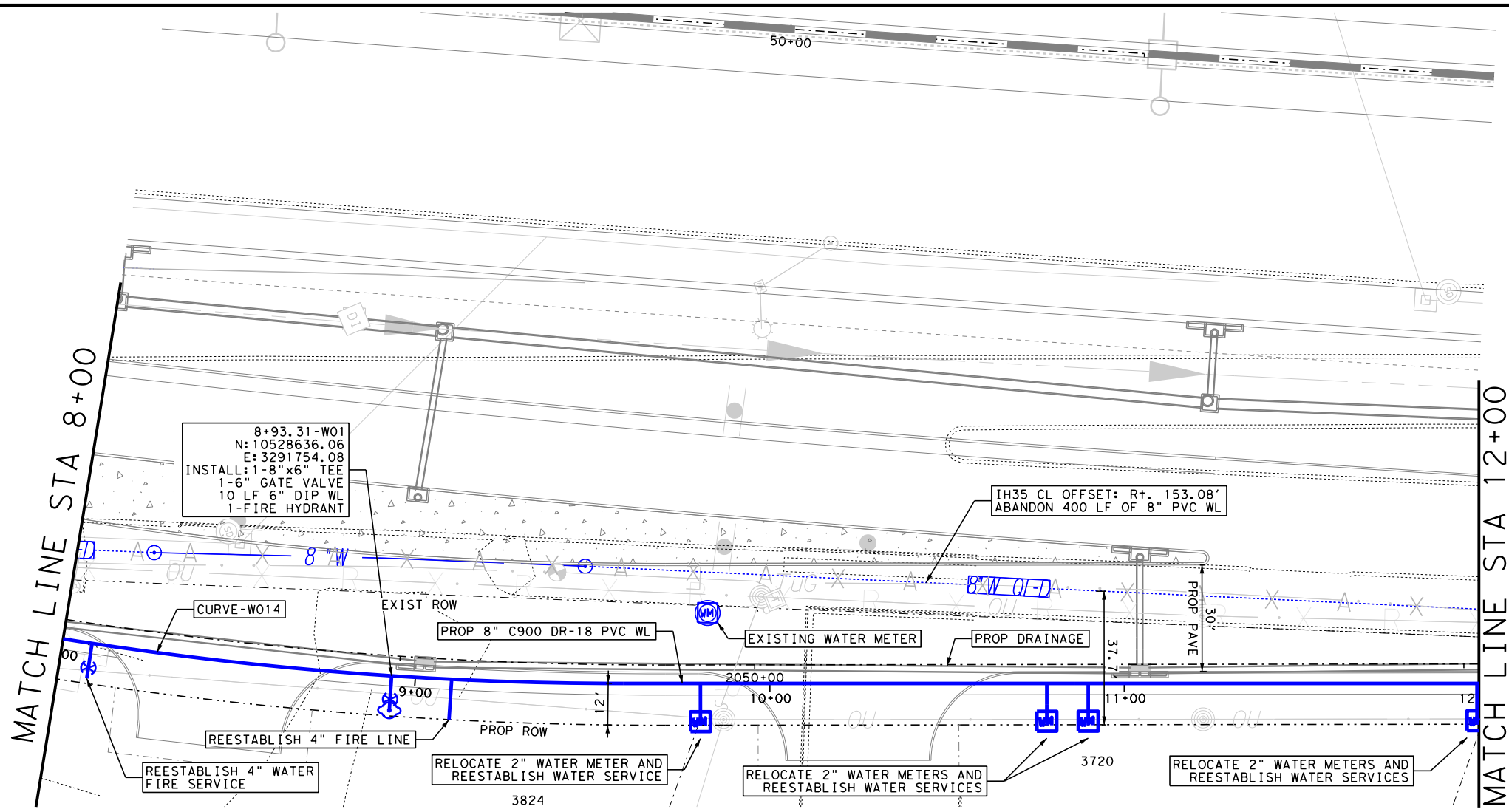


- NOTES:**
1. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 3. WATER SERVICE INTERRUPTIONS SHALL BE LESS THAN 8 HOURS AND TEMPORARY SERVICES SHALL BE PROVIDED IF NEEDED. 48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WACO PRIOR TO ANY SHUTDOWN.
 4. WATERLINE SEGMENTS SHALL BE CENTERED OVER WASTEWATER CROSSING PER TCEQ.
 5. EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 6. ALL SERVICES SHALL BE REESTABLISHED.
 7. A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
 8. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 9. EXISTING WATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.
 10. REMOVE ABANDONED WATER LINE WITHIN 4" OF PROPOSED WATER LINE.

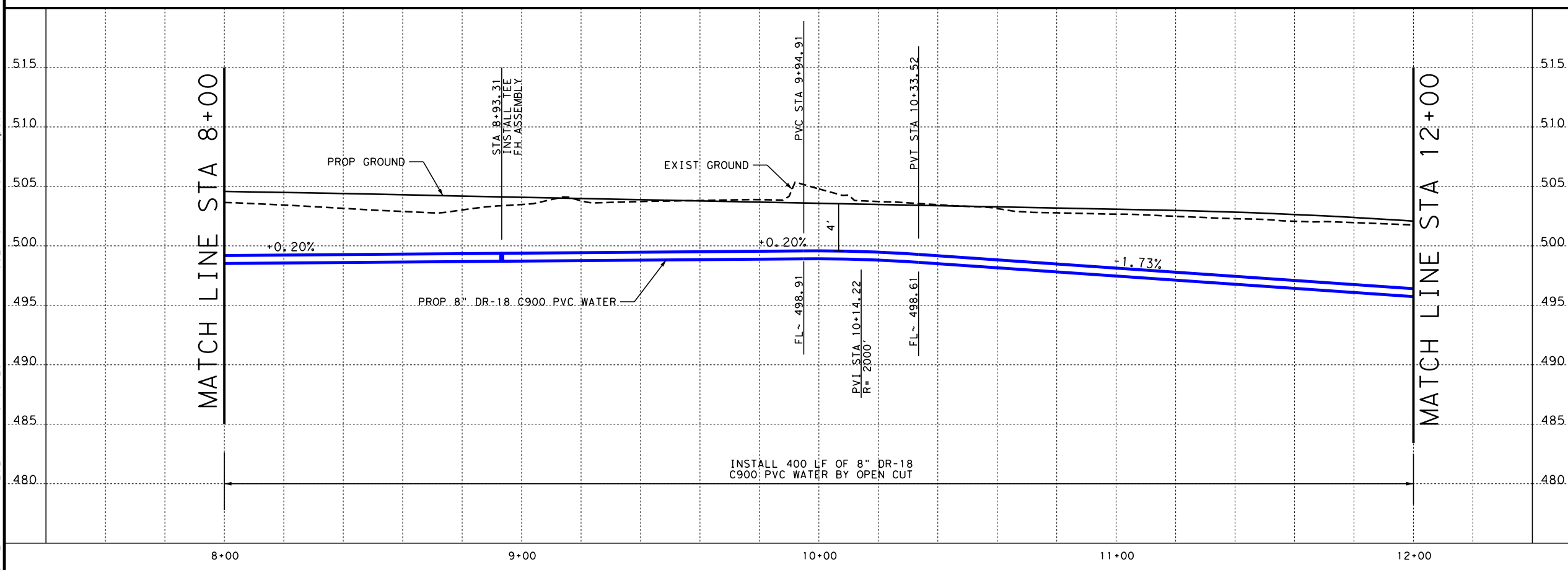


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "01" PLAN AND PROFILE STA 4+00 TO STA 8+00			
SHEET 2 OF 4			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1070	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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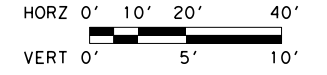
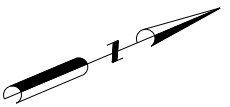


- NOTES:**
1. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 3. WATER SERVICE INTERRUPTIONS SHALL BE LESS THAN 8 HOURS AND TEMPORARY SERVICES SHALL BE PROVIDED IF NEEDED. 48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WACO PRIOR TO ANY SHUTDOWN.
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 7. A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
 8. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 9. EXISTING WATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.



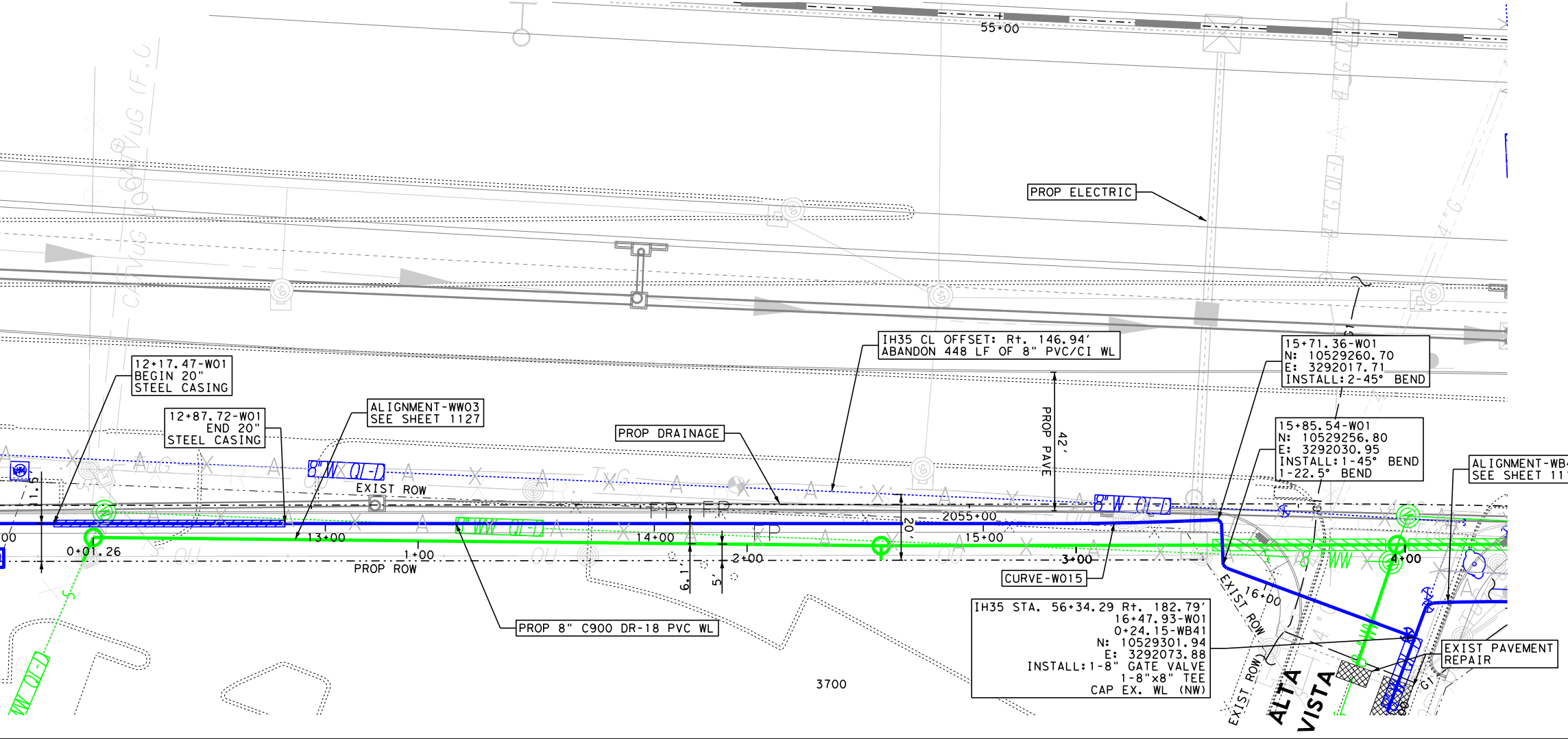
NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "01" PLAN AND PROFILE STA 8+00 TO STA 12+00 SHEET 3 OF 4			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1071	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

FILE: pwt\\pw-int-hntb.org\PWCentralID\Documents\Projects\68651 Waco IH 35 4C\CAD\Sheets\06 - Utilities\IH35-W01*04.dgn
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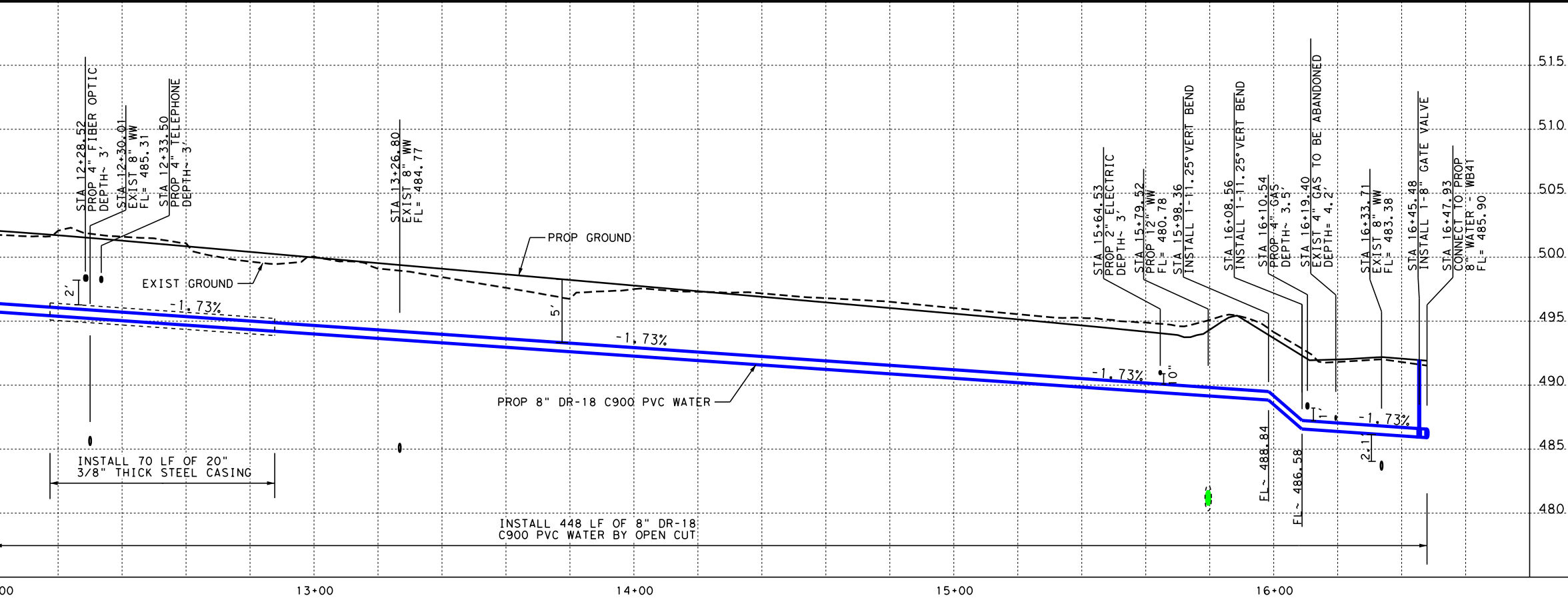


- NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 - SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 - WATER SERVICE INTERRUPTIONS SHALL BE LESS THAN 8 HOURS AND TEMPORARY SERVICES SHALL BE PROVIDED IF NEEDED. 48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WACO PRIOR TO ANY SHUTDOWN.
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 - EXISTING WATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.
 - FINAL DESIGN PENDING ADDITIONAL SUE, TXDOT AND CITY OF WACO REVIEW.

MATCH LINE STA 12+00

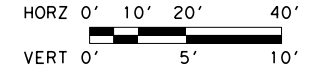
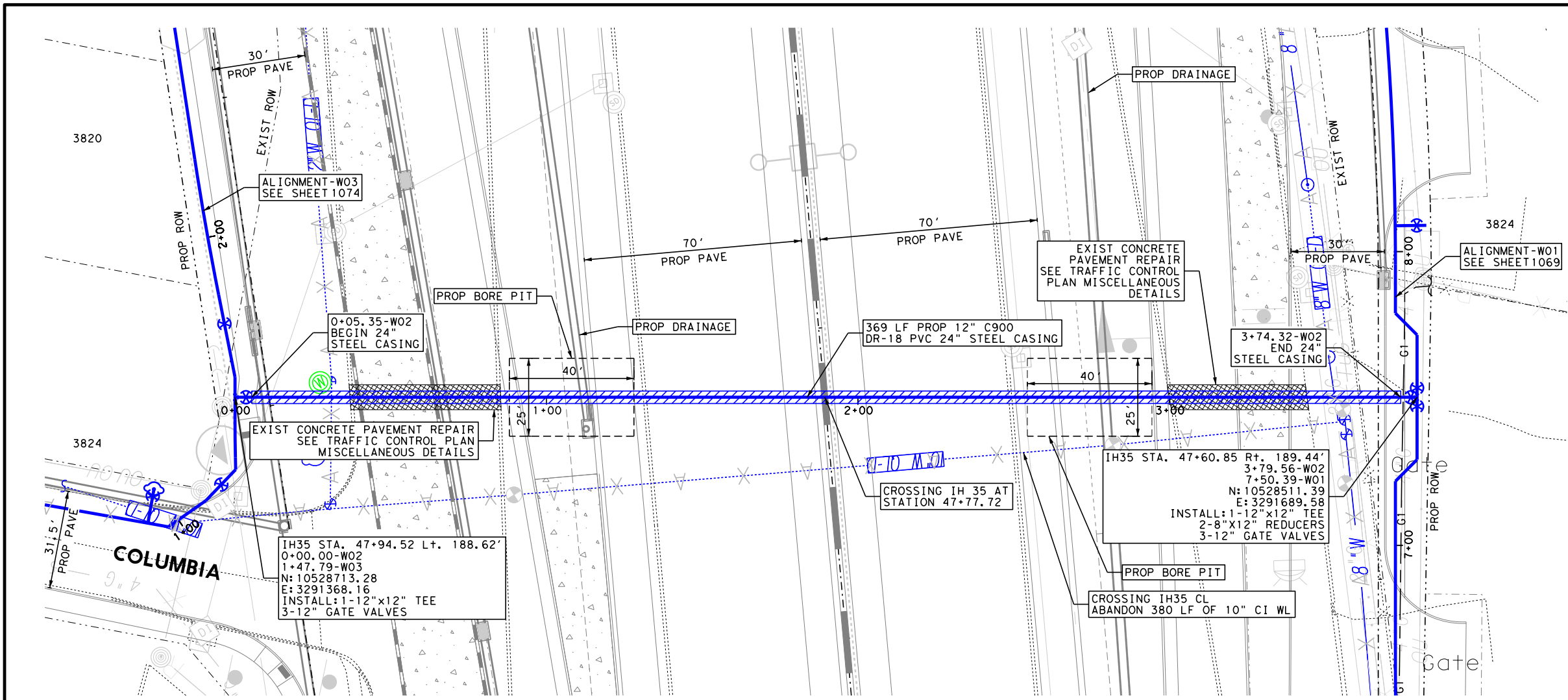


MATCH LINE STA 12+00

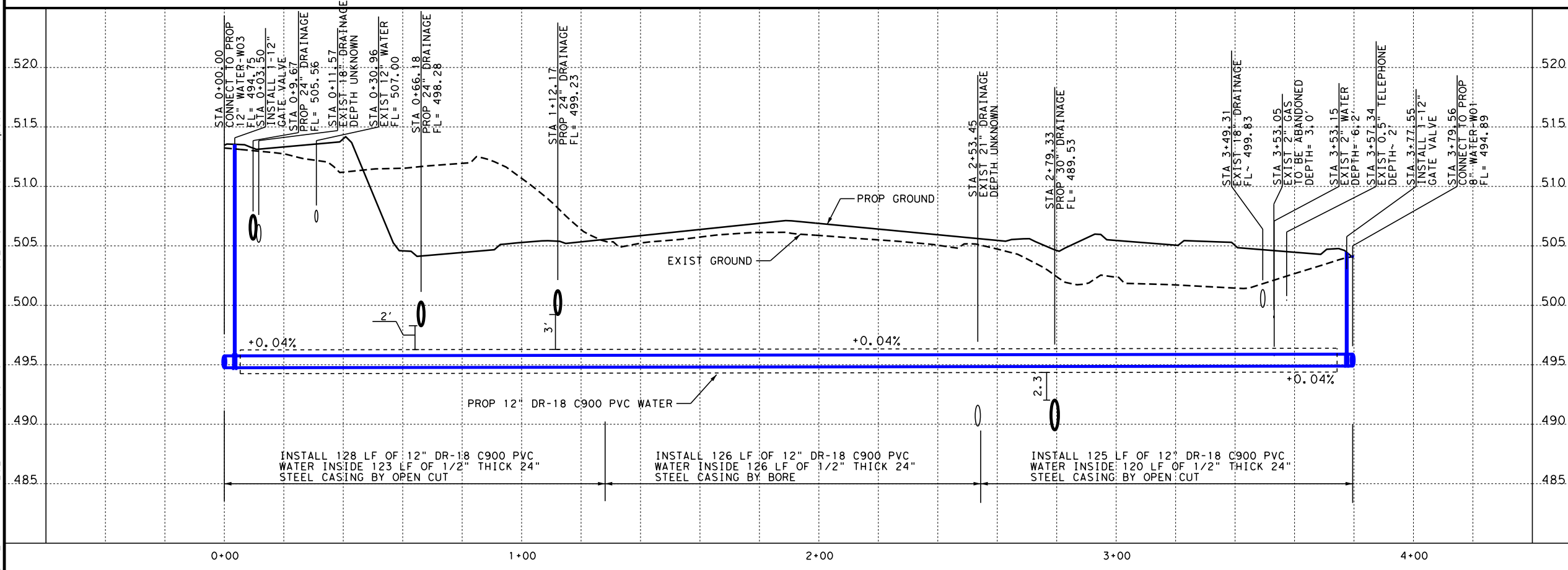


NO.	DATE	REVISION	APPROVED
			 07/17/2024
 TEXAS DEPARTMENT OF TRANSPORTATION			
 LINA T. RAMEY & ASSOCIATES, INC. 3320 Belt Line Rd Farmers Branch, Texas 75234 Firm Registration No. F-782			
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "01" PLAN AND PROFILE STA 12+00 TO STA 16+48			
SHEET 4 OF 4			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1072	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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- NOTES:**
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 2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
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 6. ALL SERVICES SHALL BE REESTABLISHED.
 7. A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
 8. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 9. EXISTING WATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT PERPENDICULARLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.



NO.	DATE	REVISION	APPROVED

MATT WOLFE
136362
07/17/2024

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3320 Belt Line Rd
Farmers Branch, Texas 75234
Firm Registration No. F-782

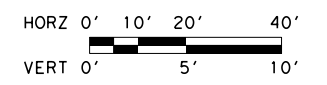
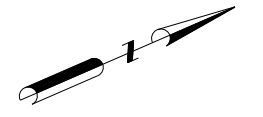
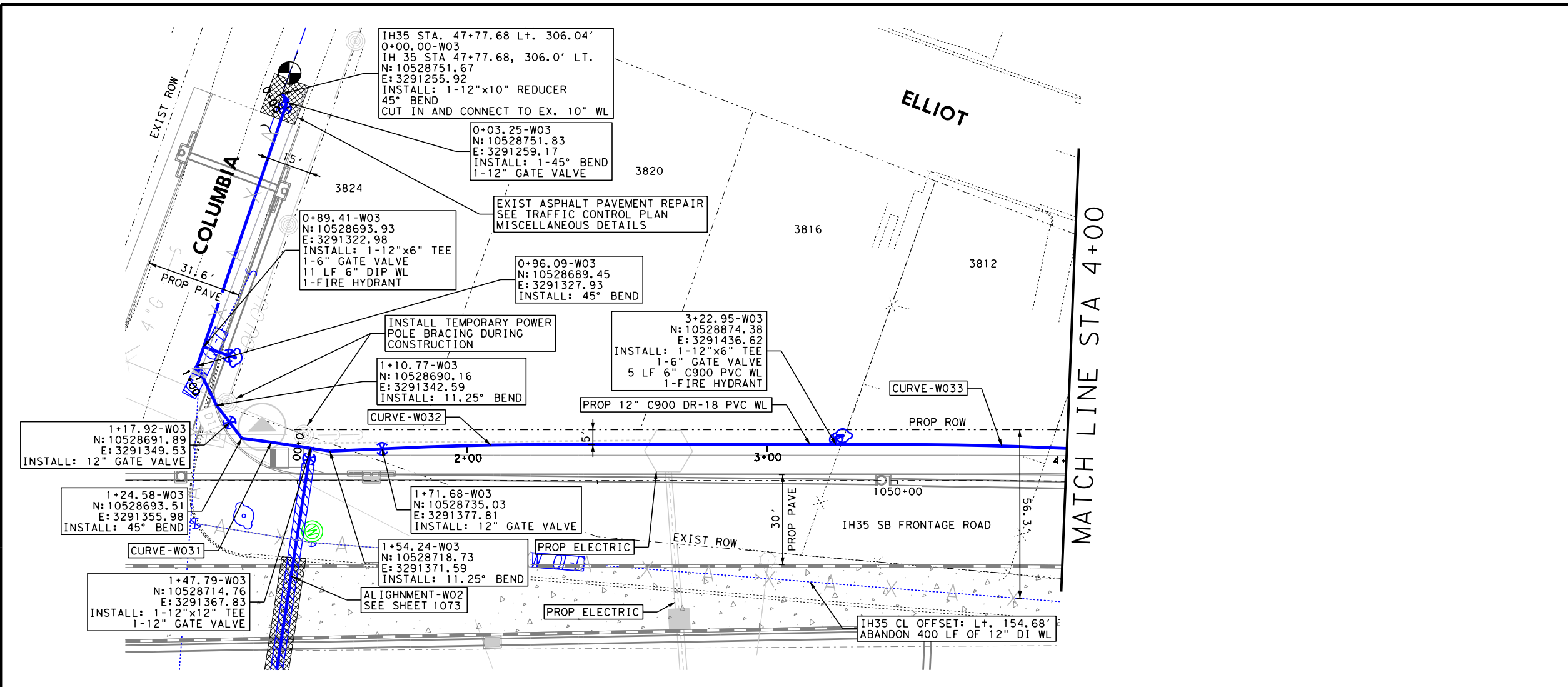
IH 35 FROM S LP 340 TO 12TH ST

WATER LINE "02"
PLAN AND PROFILE
STA 0+00 TO STA 3+81

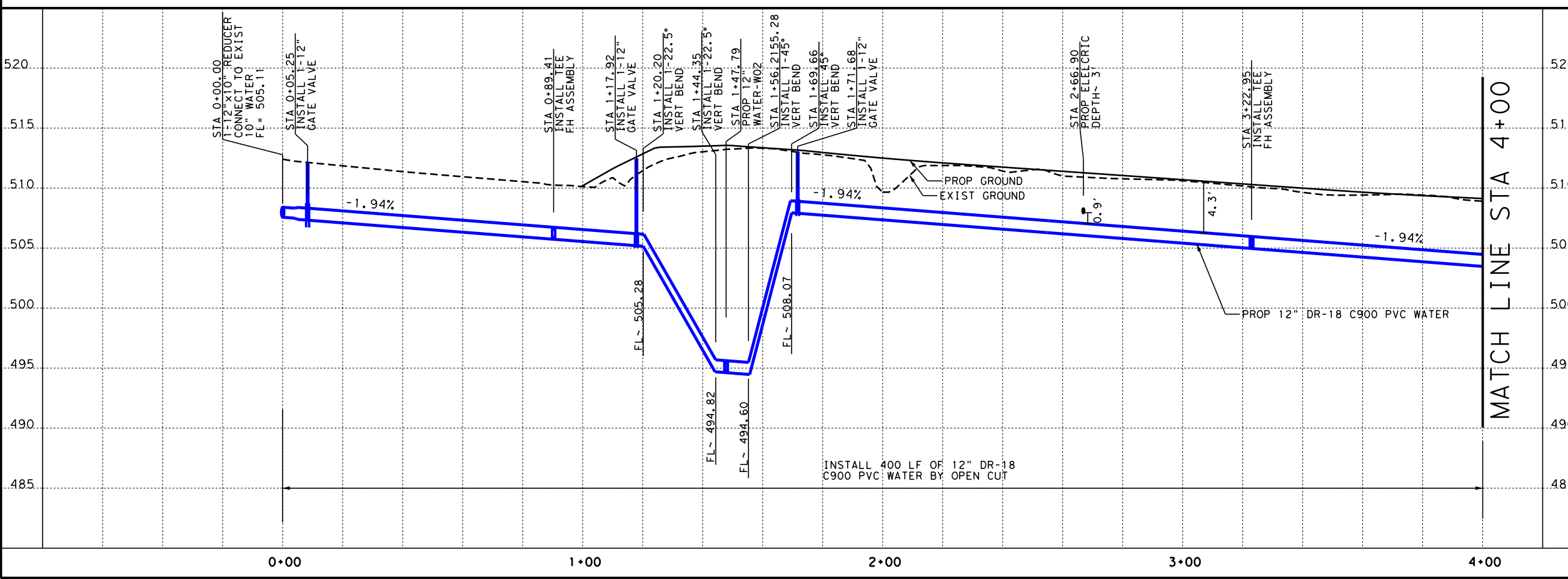
SHEET 1 OF 1

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
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STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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NO.	DATE	REVISION	APPROVED

07/17/2024

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3320 Belt Line Rd
Farmers Branch, Texas 75234
Firm Registration No. F-782

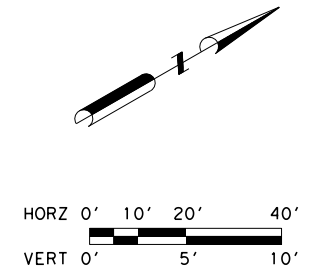
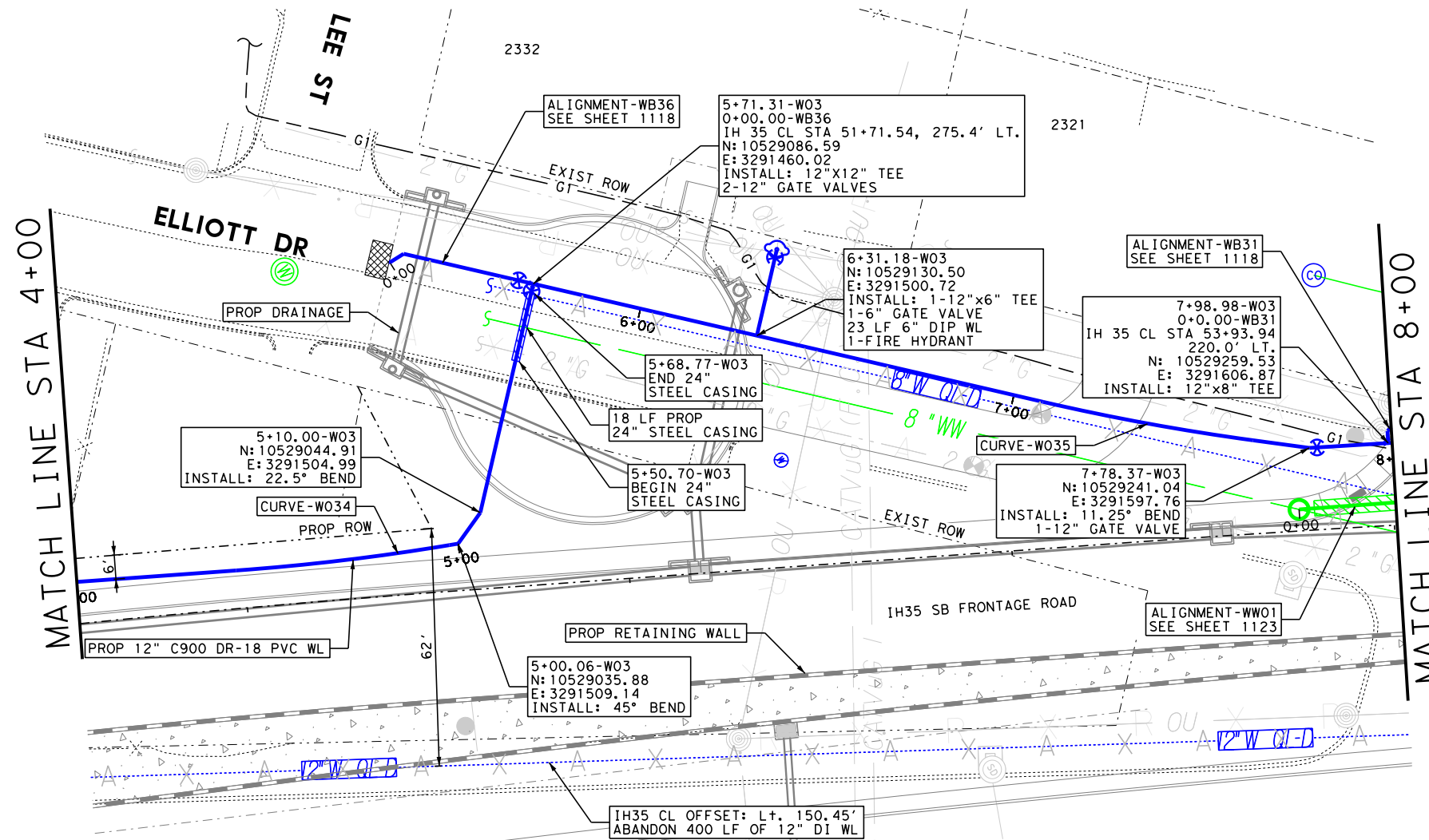
IH 35 FROM S LP 340 TO 12TH ST

WATER LINE "03"
PLAN AND PROFILE
STA 0+00 TO STA 4+00

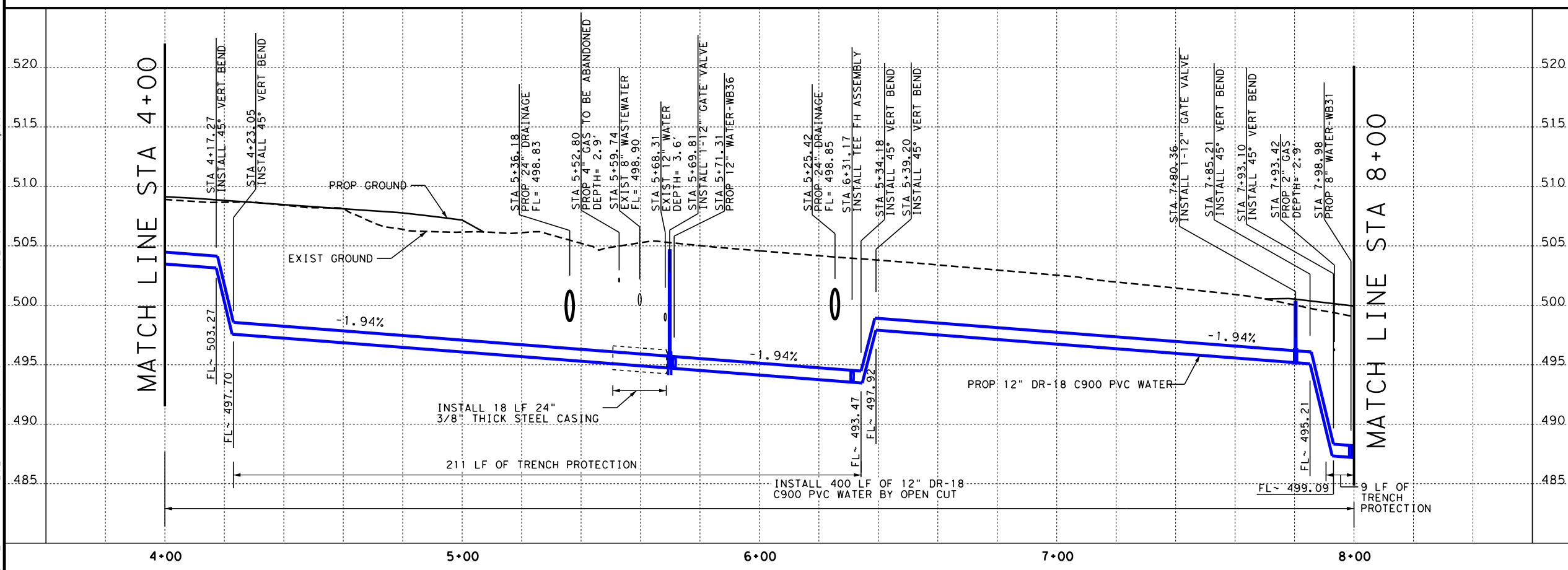
SHEET 1 OF 13

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1074	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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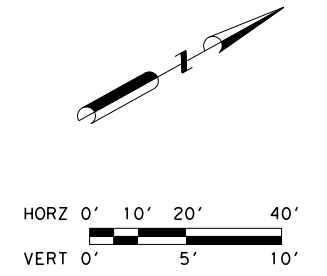
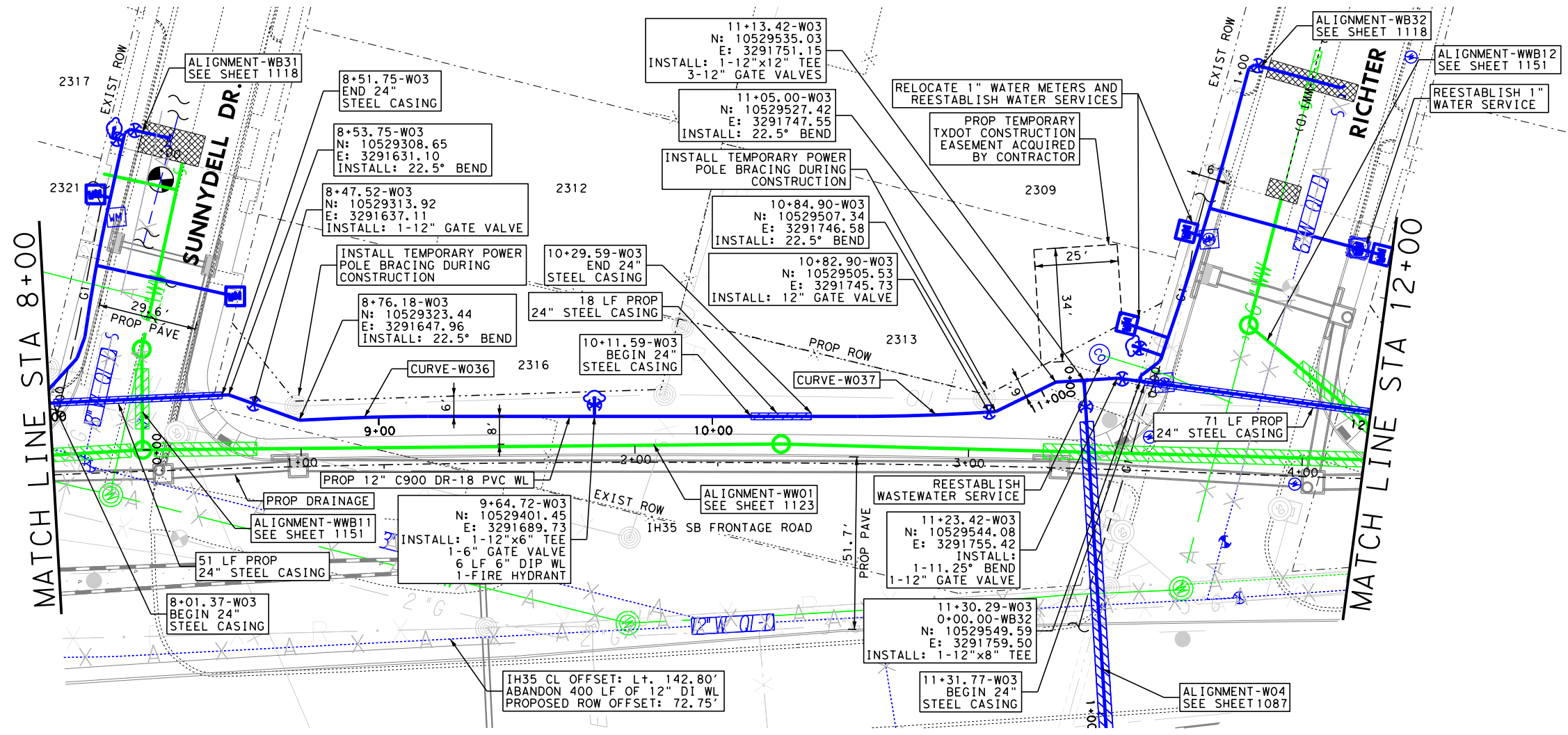


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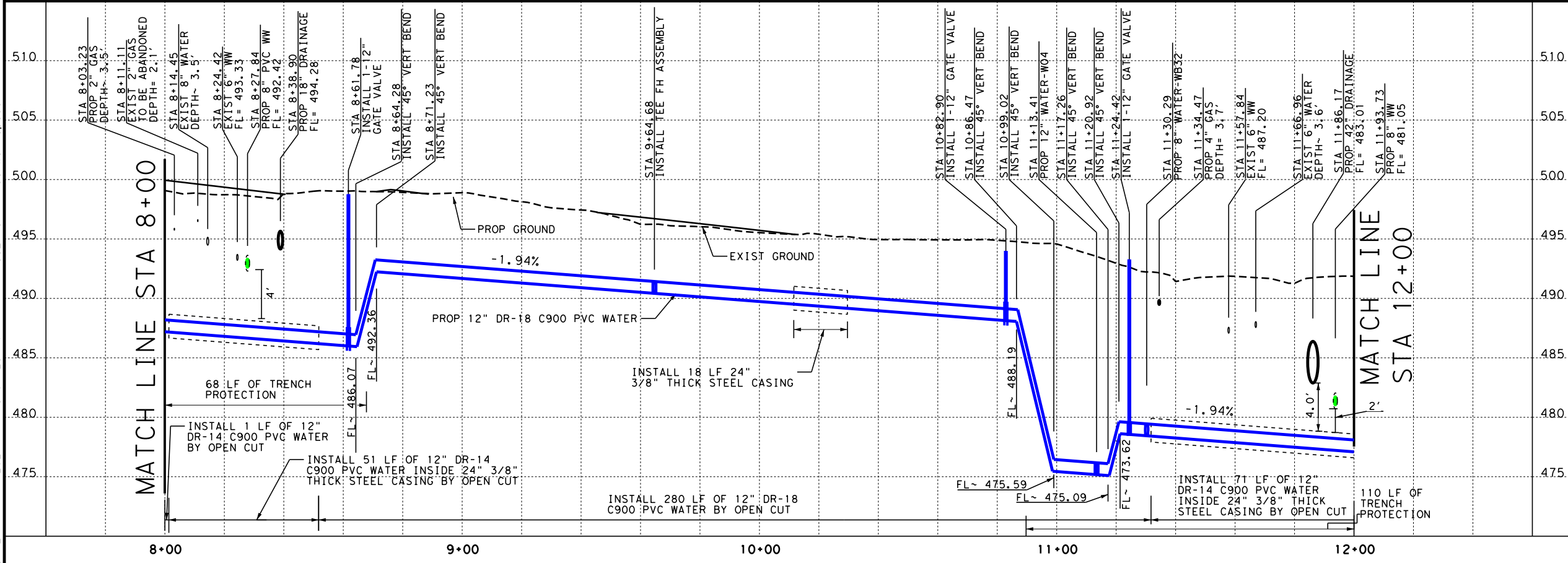


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "03" PLAN AND PROFILE STA 4+00 TO STA 8+00			
SHEET 2 OF 13			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1075	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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- NOTES:**
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LINA T. RAMEY & ASSOCIATES, INC.
 3320 Belt Line Rd
 Farmers Branch, Texas 75234
 Firm Registration No. F-782

IH 35 FROM S LP 340 TO 12TH ST

 WATER LINE "03"
 PLAN AND PROFILE
 STA 8+00 TO STA 12+00

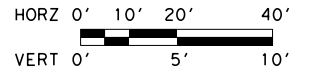
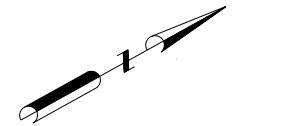
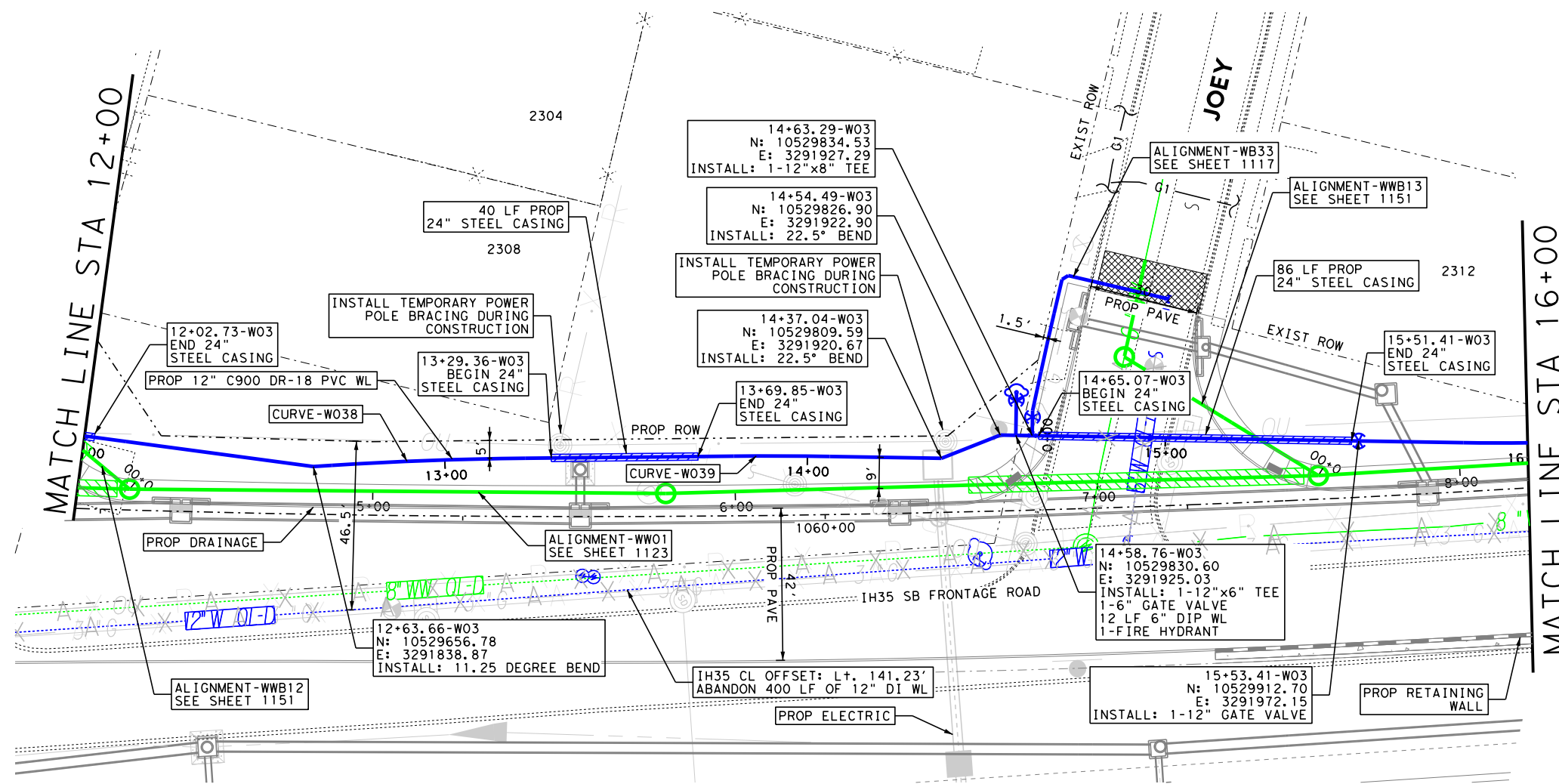
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FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
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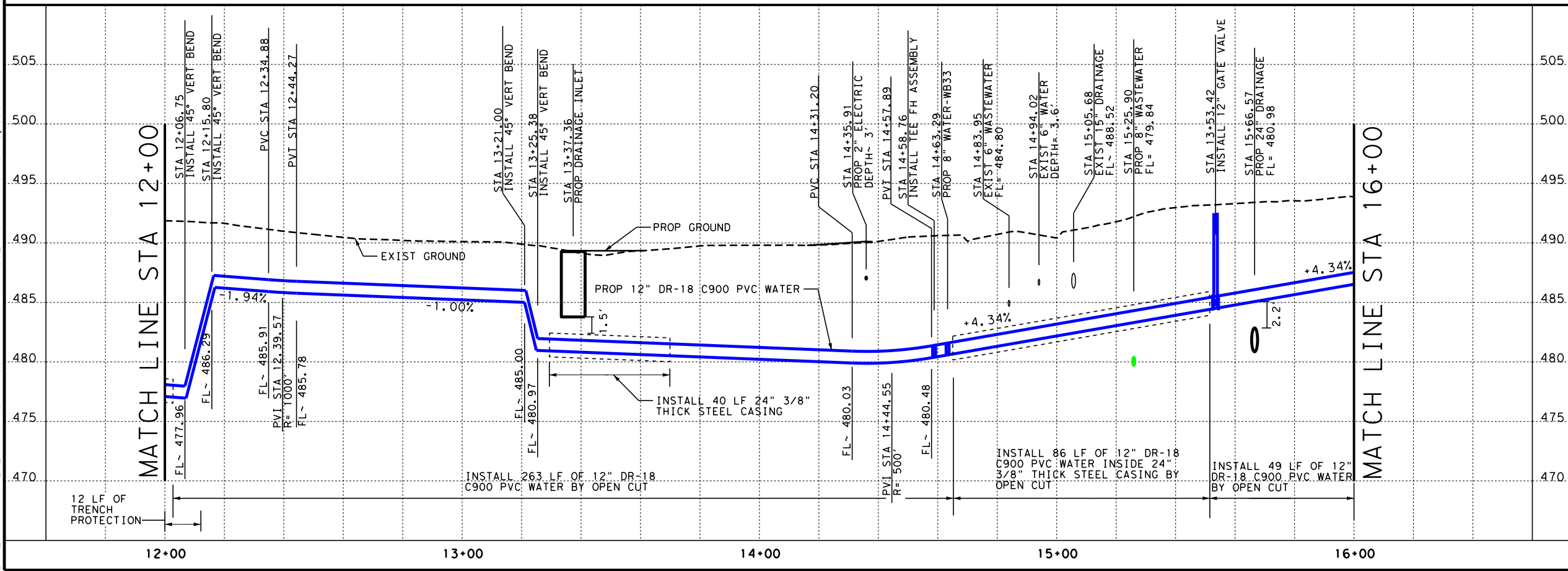
STATE	DIST.	COUNTY
TEXAS	WACO	MCLENNAN

CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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- NOTES:**
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 10. CONTRACTOR SHALL FOLLOW THE CITY OF WACO STANDARD SPECIFICATIONS FOR CONSTRUCTION SECTION 4.9.13 FOR PURGING AND DISINFECTION OF WATER MAINS.



NO.	DATE	REVISION	APPROVED

07/17/2024

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LINA T. RAMEY & ASSOCIATES, INC.
3320 Belt Line Rd
Farmers Branch, Texas 75234
Firm Registration No. F-782

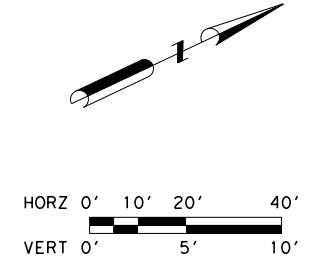
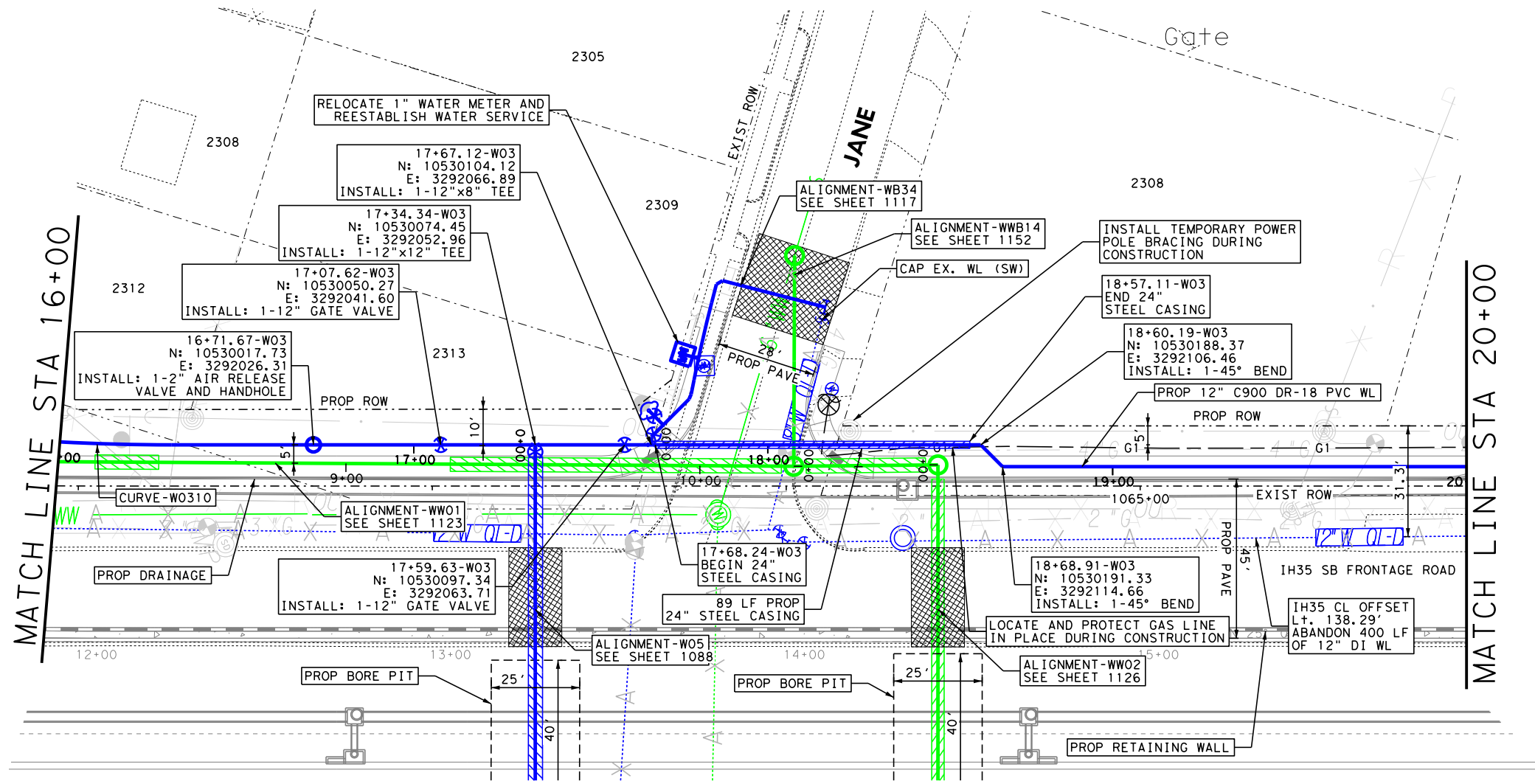
IH 35 FROM S LP 340 TO 12TH ST

WATER LINE "03"
PLAN AND PROFILE
STA 12+00 TO STA 16+00

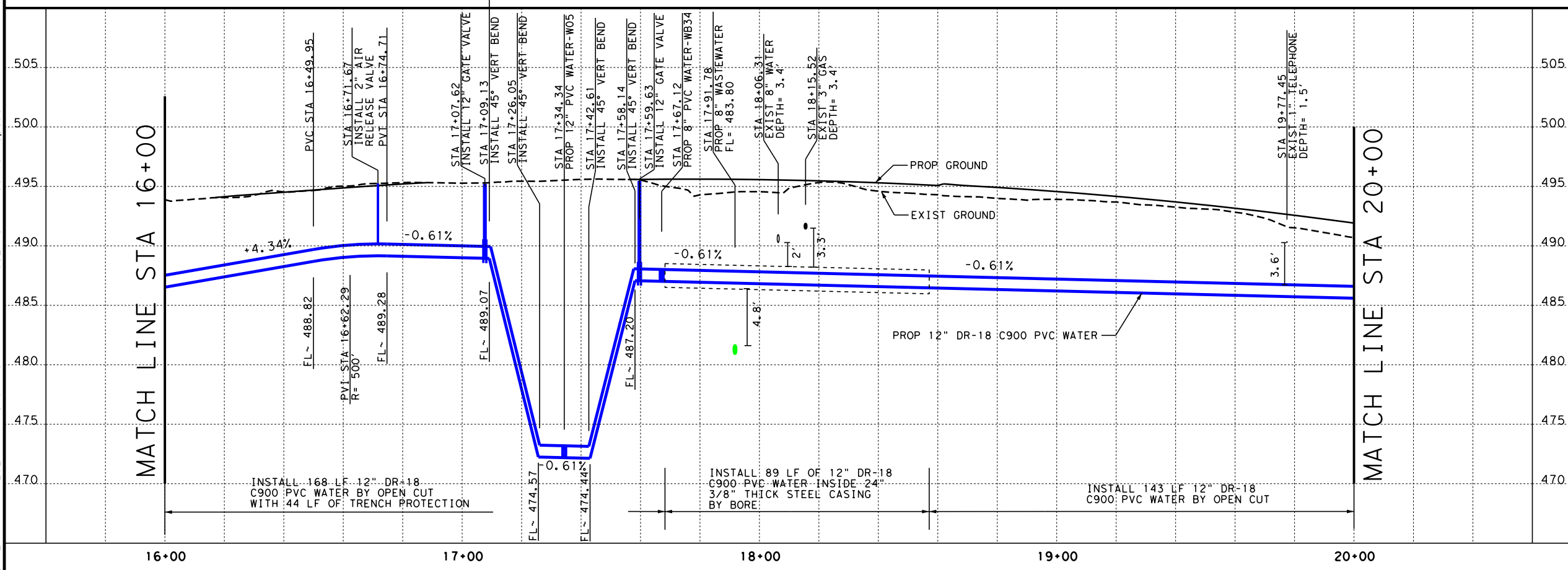
SHEET 4 OF 13

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
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STATE	DIST.	COUNTY
TEXAS	WACO	MCLENNAN
CONT.	SECT.	JOB
0015	01	246, ETC
		HIGHWAY NO.
		IH 35

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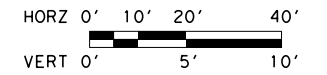
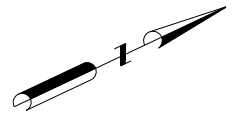
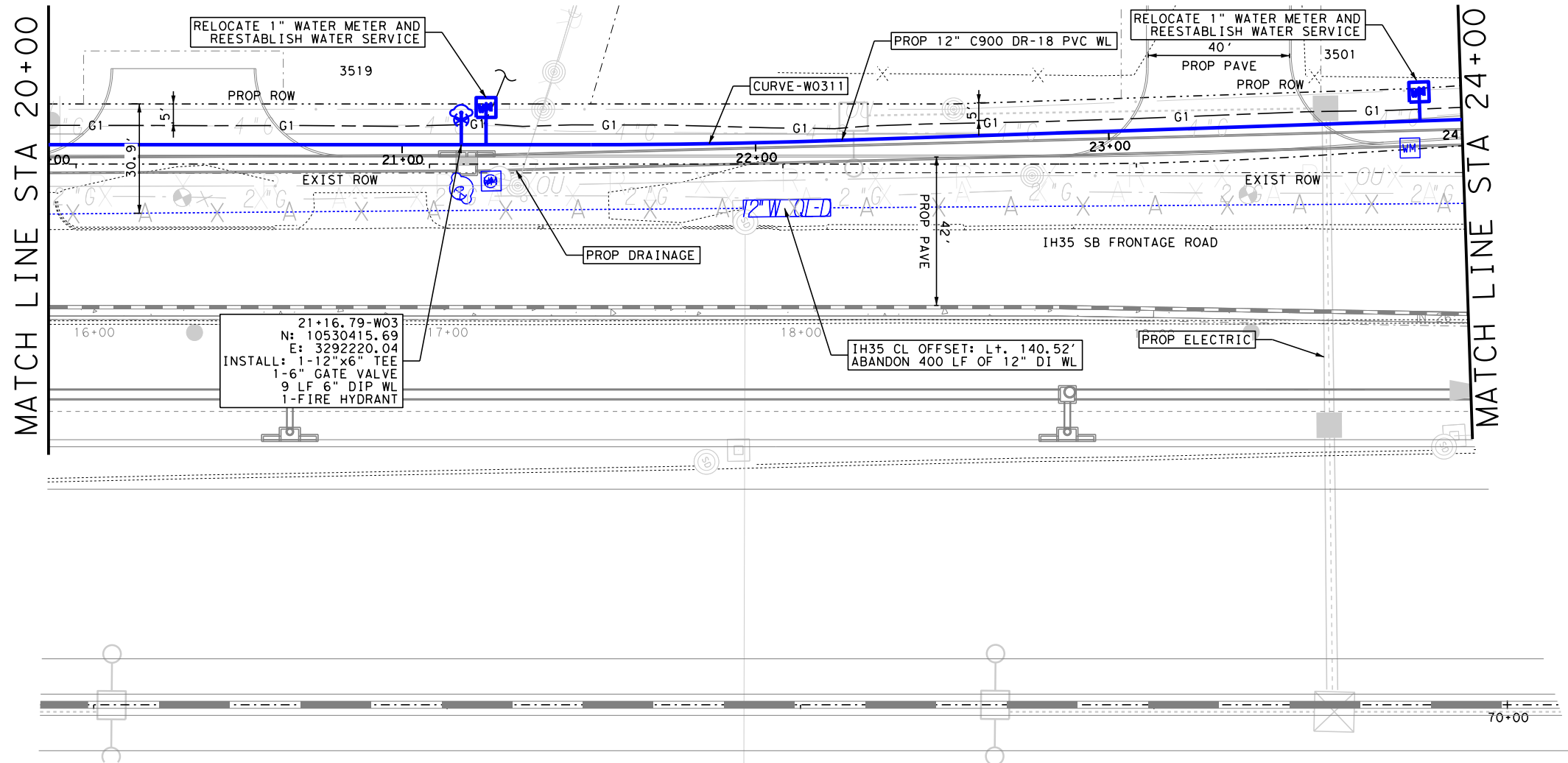


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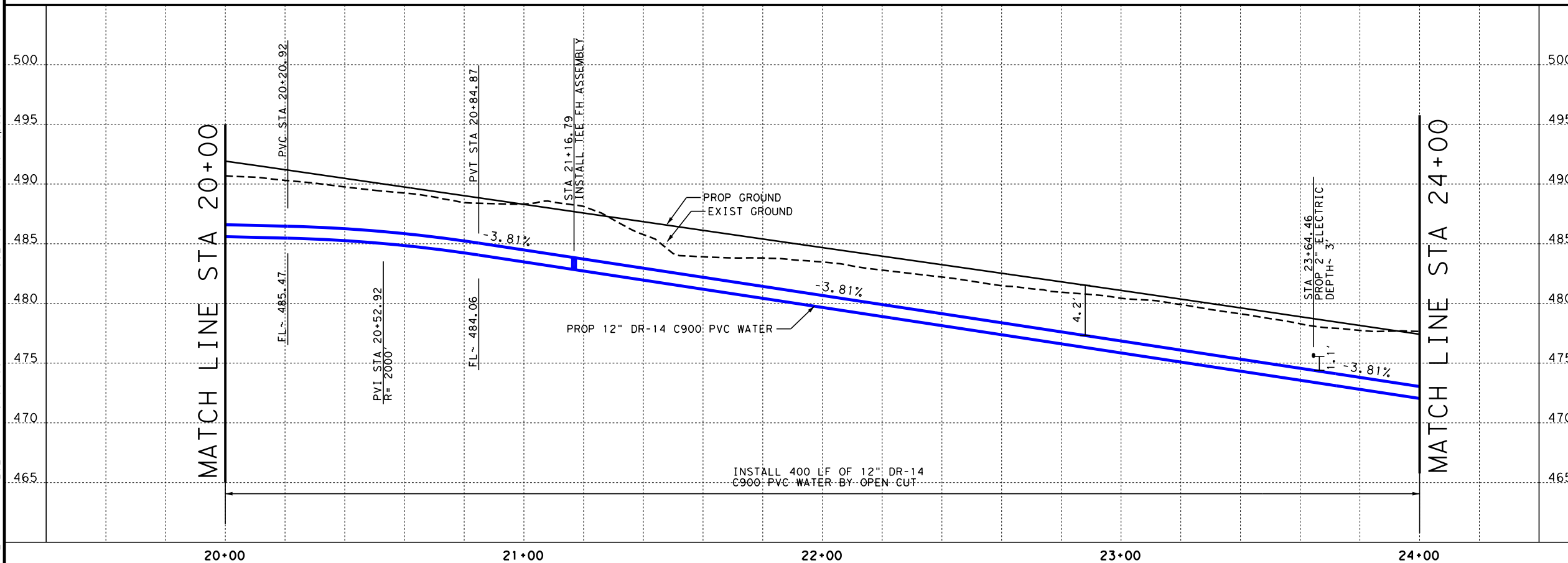
NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "03" PLAN AND PROFILE STA 16+00 TO STA 20+00			
SHEET 5 OF 13			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1078	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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NO.	DATE	REVISION	APPROVED

MATT WOLFE
 LICENSED PROFESSIONAL ENGINEER
 07/17/2024

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 3320 Belt Line Rd
 Farmers Branch, Texas 75234
 Firm Registration No. F-782

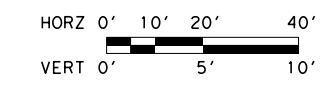
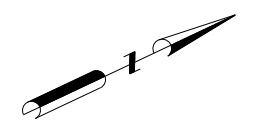
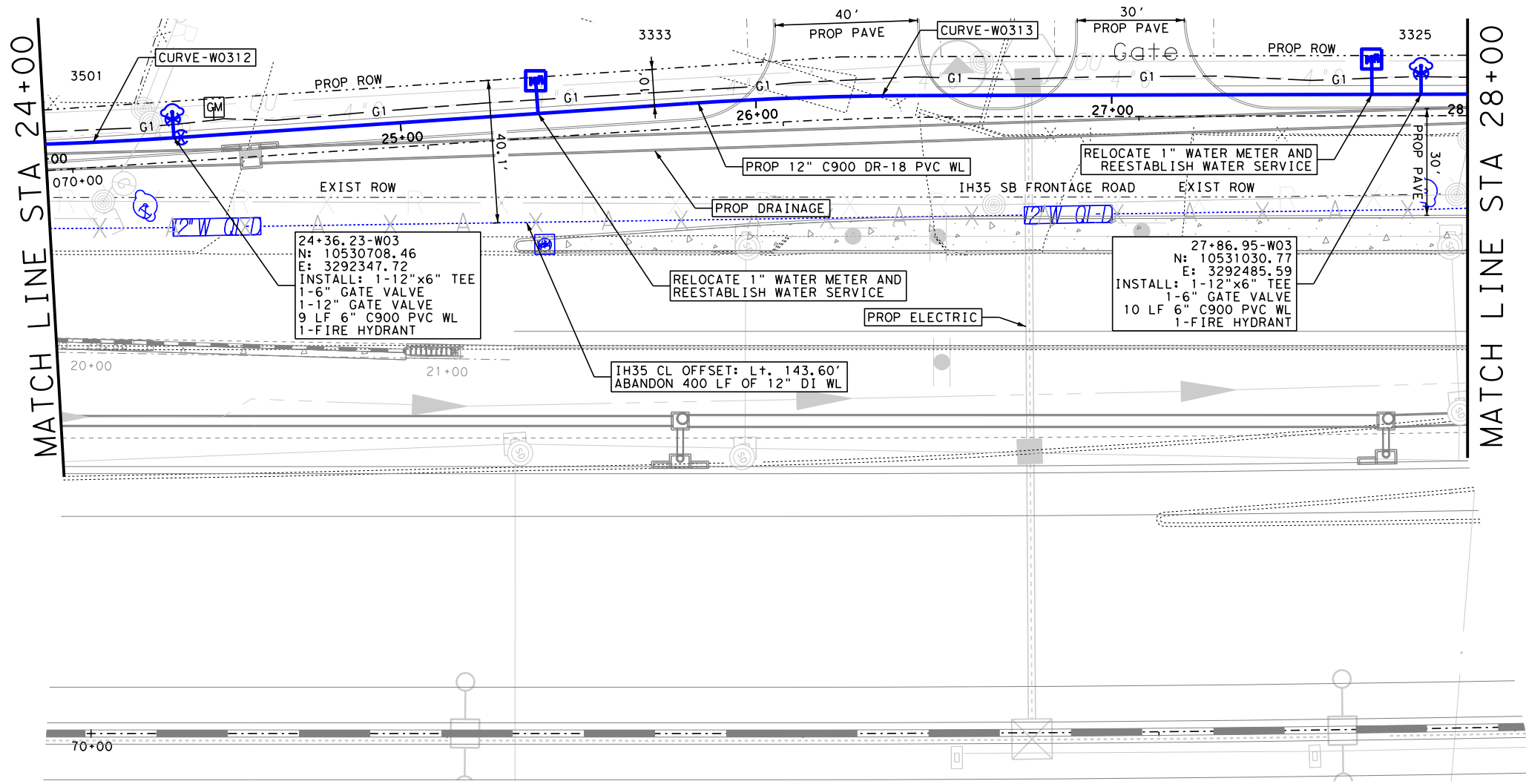
IH 35 FROM S LP 340 TO 12TH ST

WATER LINE "03"
 PLAN AND PROFILE
 STA 20+00 TO STA 24+00

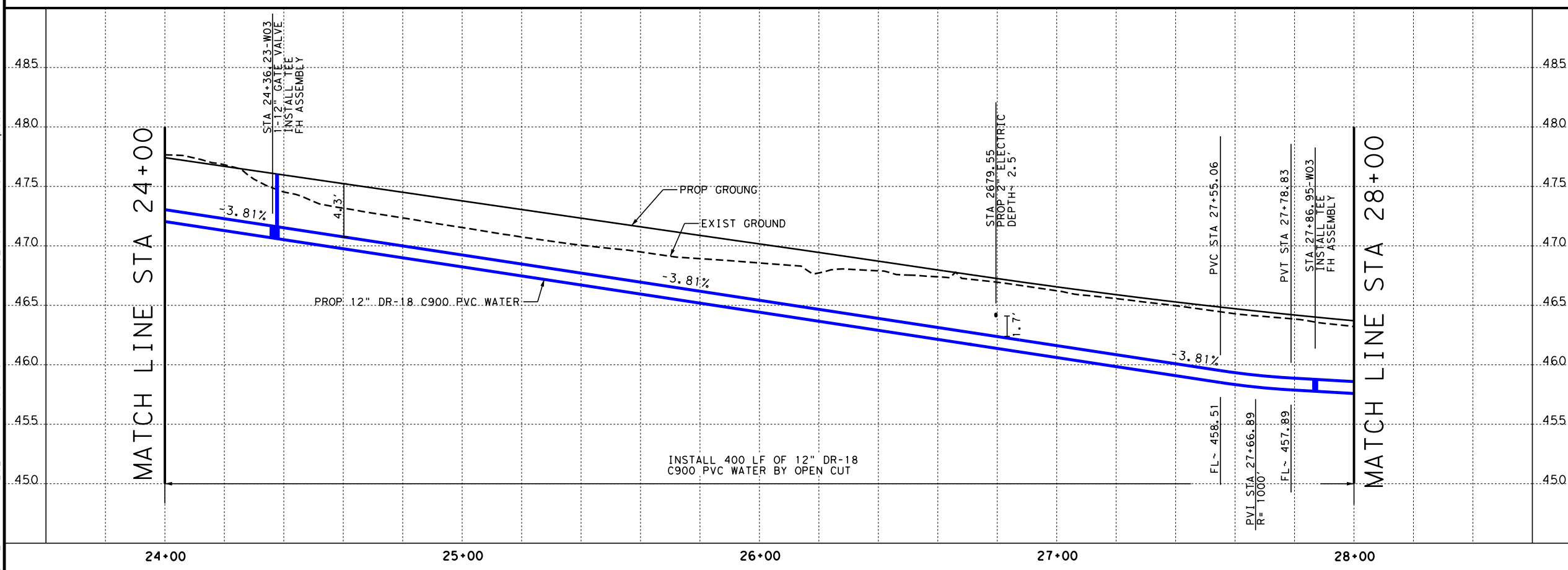
SHEET 6 OF 13

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
6	SEE TITLE SHEET	1079
STATE	DIST.	COUNTY
TEXAS	WACO	MCLENNAN
CONT.	SECT.	JOB
0015	01	246, ETC
		HIGHWAY NO.
		IH 35

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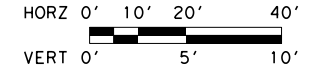
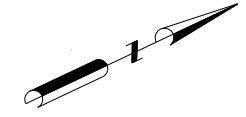
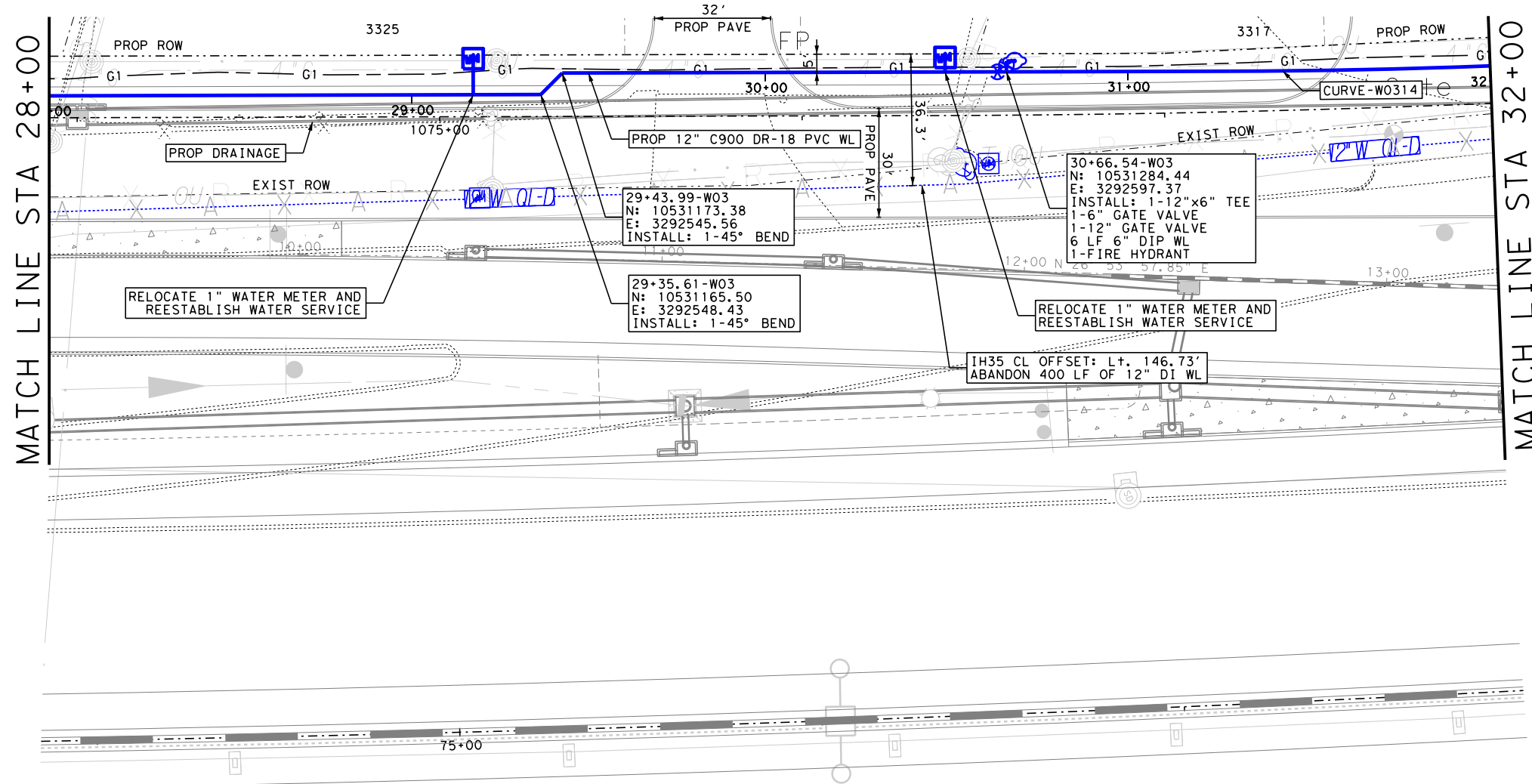


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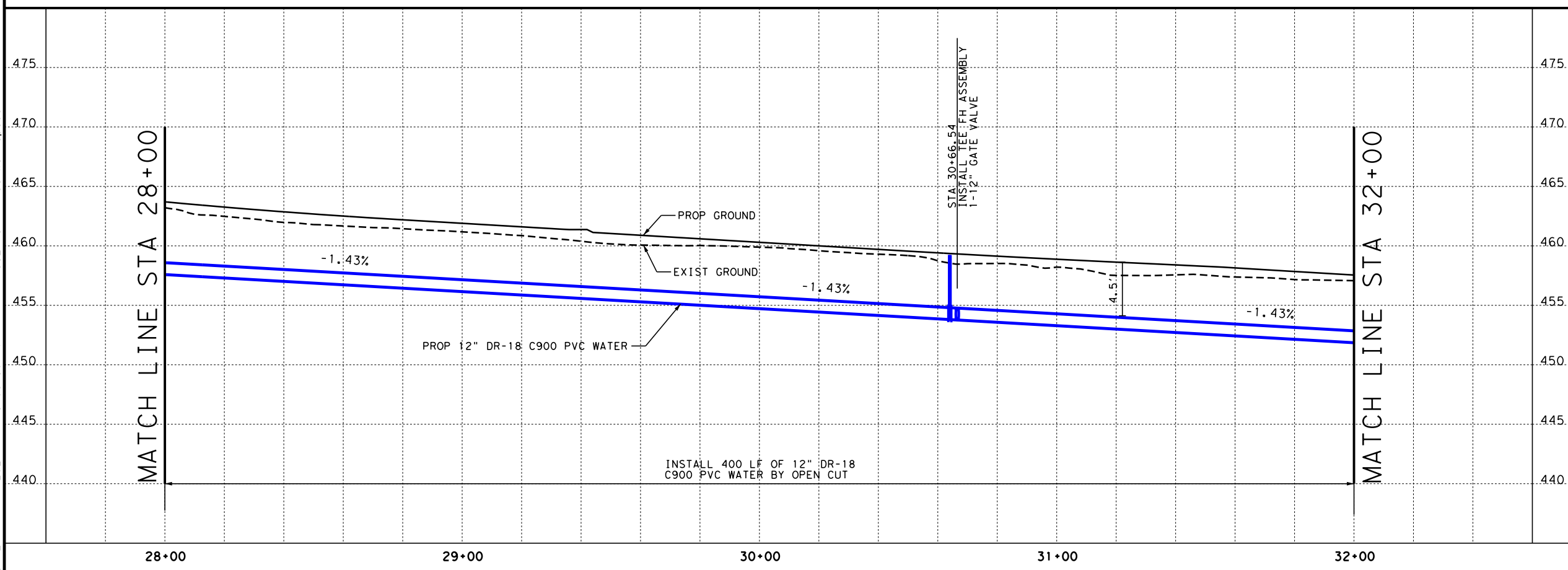


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST			
WATER LINE "03" PLAN AND PROFILE STA 24+00 TO STA 28+00			
SHEET 7 OF 13			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1080	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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- NOTES:**
1. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 3. WATER SERVICE INTERRUPTIONS SHALL BE LESS THAN 8 HOURS AND TEMPORARY SERVICES SHALL BE PROVIDED IF NEEDED. 48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WACO PRIOR TO ANY SHUTDOWN.
 4. WATERLINE SEGMENTS SHALL BE CENTERED OVER WASTEWATER CROSSING PER TCEQ.
 5. EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 6. ALL SERVICES SHALL BE REESTABLISHED.
 7. A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
 8. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 9. EXISTING WATER IS IN CONFLICT WITH PROPOSED PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.



NO.	DATE	REVISION	APPROVED

07/17/2024

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LINA T. RAMEY & ASSOCIATES, INC.
3320 Belt Line Rd
Farmers Branch, Texas 75234
Firm Registration No. F-782

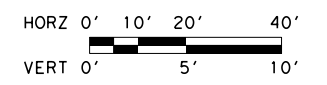
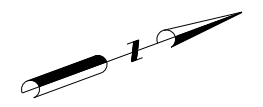
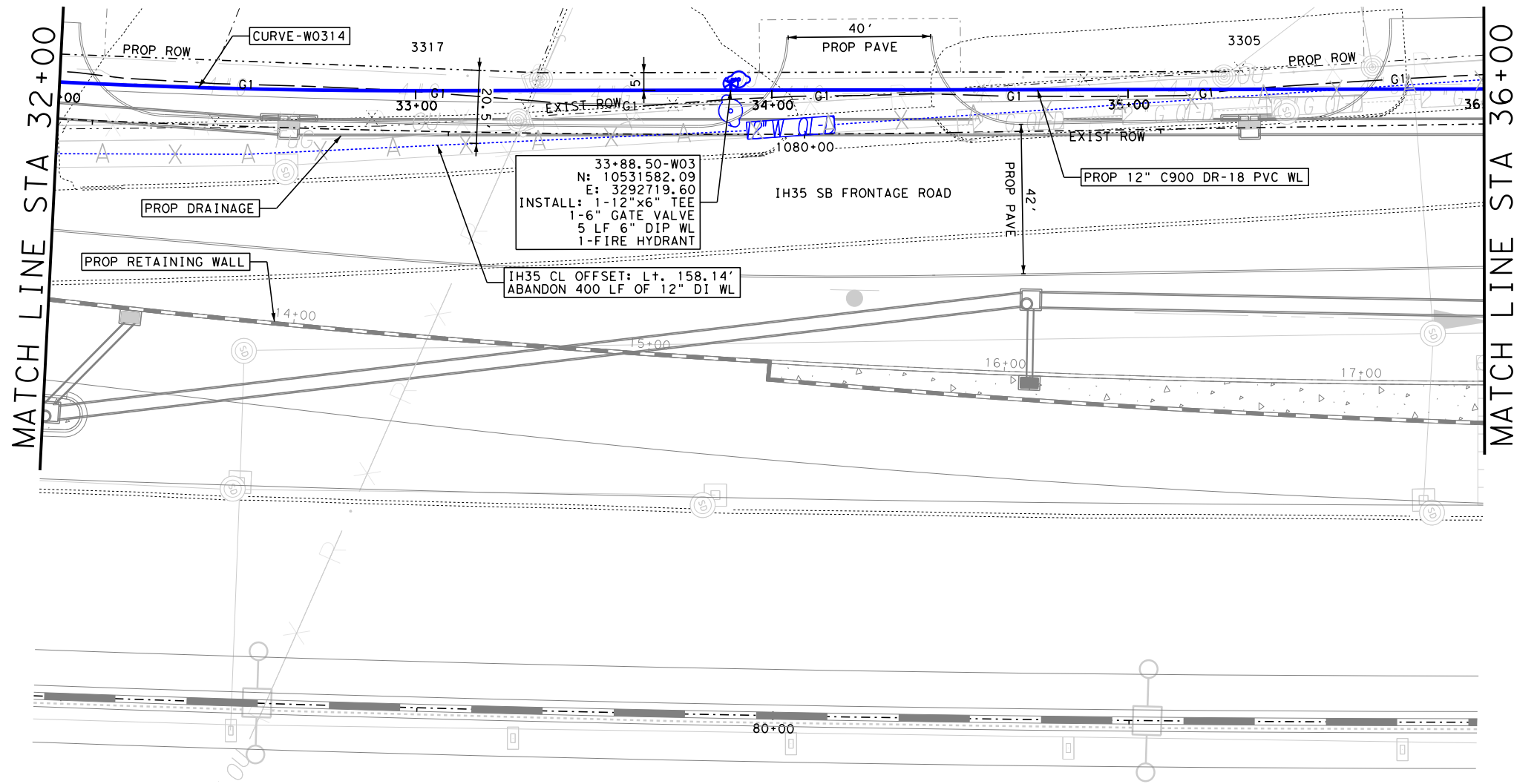
IH 35 FROM S LP 340 TO 12TH ST

WATER LINE "03"
PLAN AND PROFILE
STA 28+00 TO STA 32+00

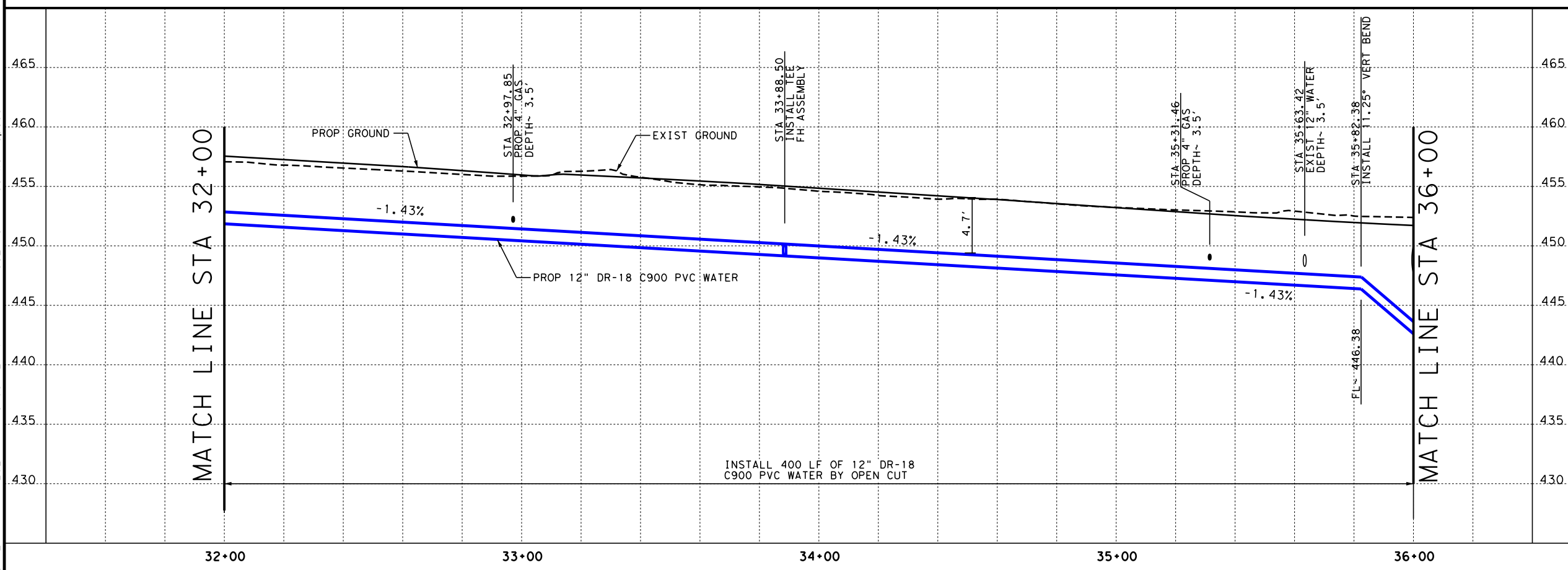
SHEET 8 OF 13

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1081	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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- NOTES:**
1. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 3. WATER SERVICE INTERRUPTIONS SHALL BE LESS THAN 8 HOURS AND TEMPORARY SERVICES SHALL BE PROVIDED IF NEEDED. 48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WACO PRIOR TO ANY SHUTDOWN.
 4. WATERLINE SEGMENTS SHALL BE CENTERED OVER WASTEWATER CROSSING PER TCEQ.
 5. EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 6. ALL SERVICES SHALL BE REESTABLISHED.
 7. A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
 8. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 9. EXISTING WATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.



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Firm Registration No. F-782

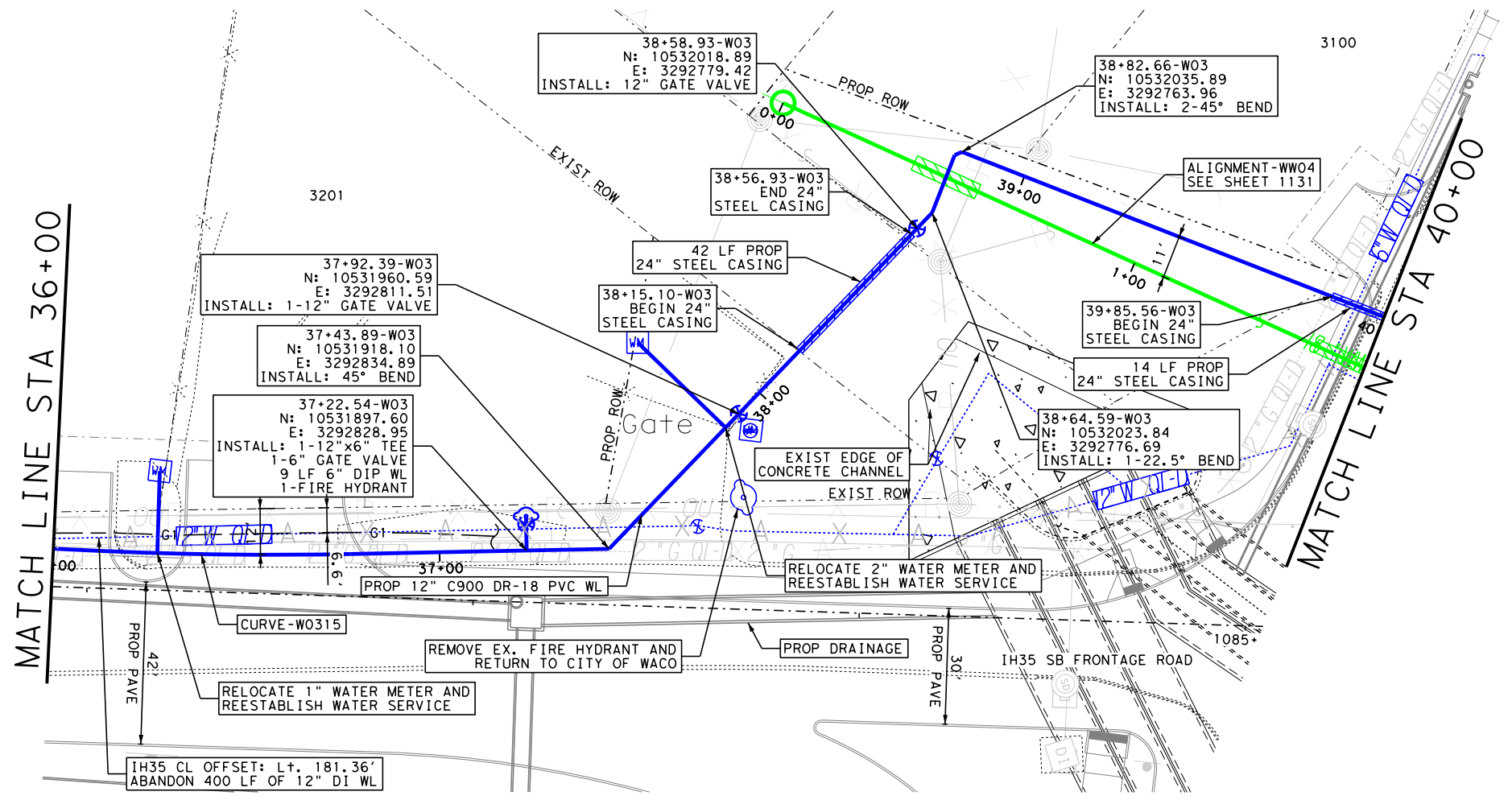
IH 35 FROM S LP 340 TO 12TH ST

WATER LINE "03"
PLAN AND PROFILE
STA 32+00 TO STA 36+00

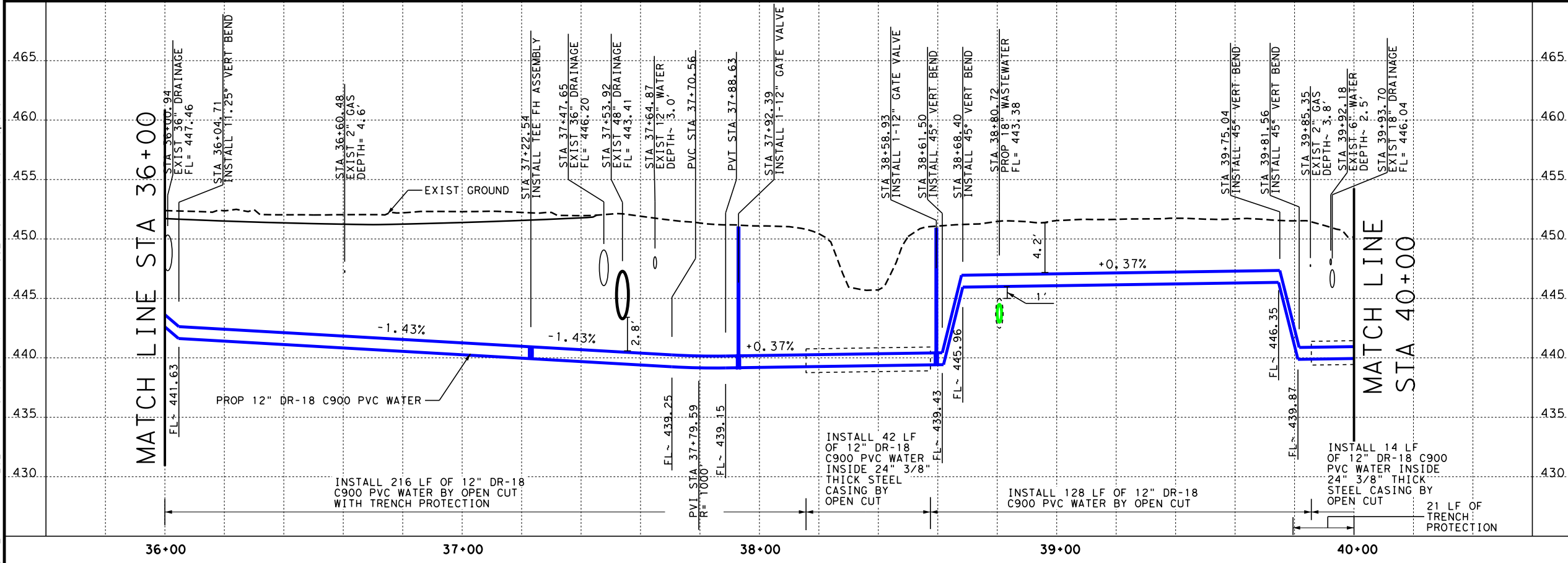
SHEET 9 OF 13

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1082	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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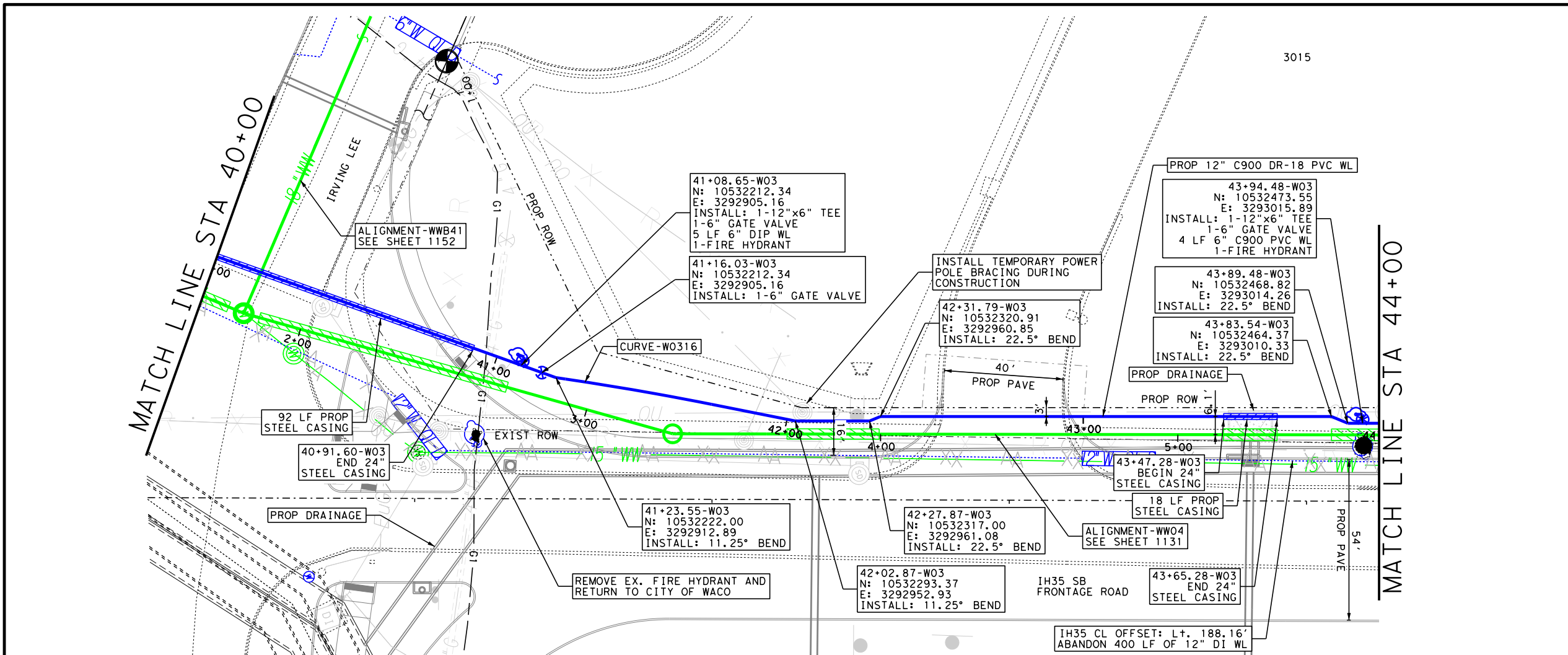


- NOTES:**
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 7. A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
 8. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 9. EXISTING WATER IS IN CONFLICT WITH PROPOSED DRAINAGE CULVERT. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.

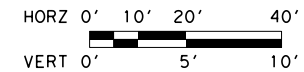


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "03" PLAN AND PROFILE STA 36+00 TO STA 40+00 SHEET 10 OF 13			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1083	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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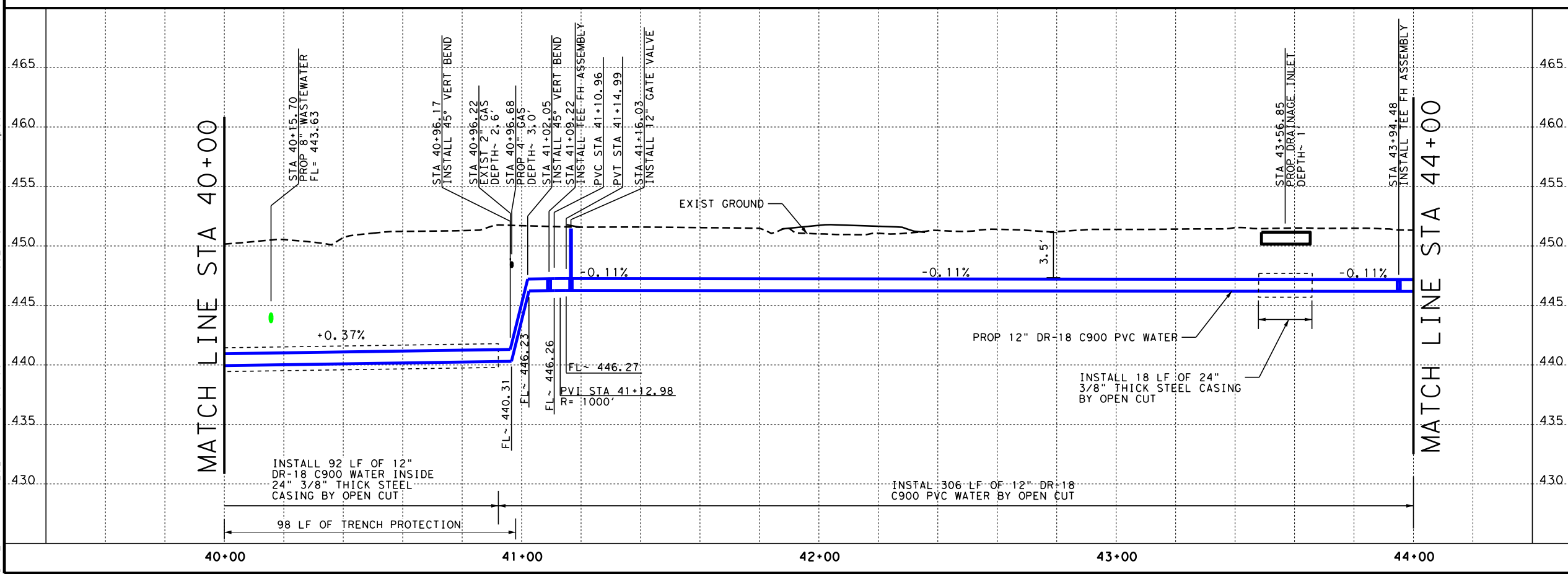


3015



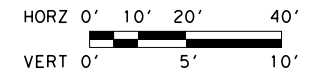
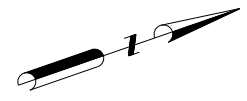
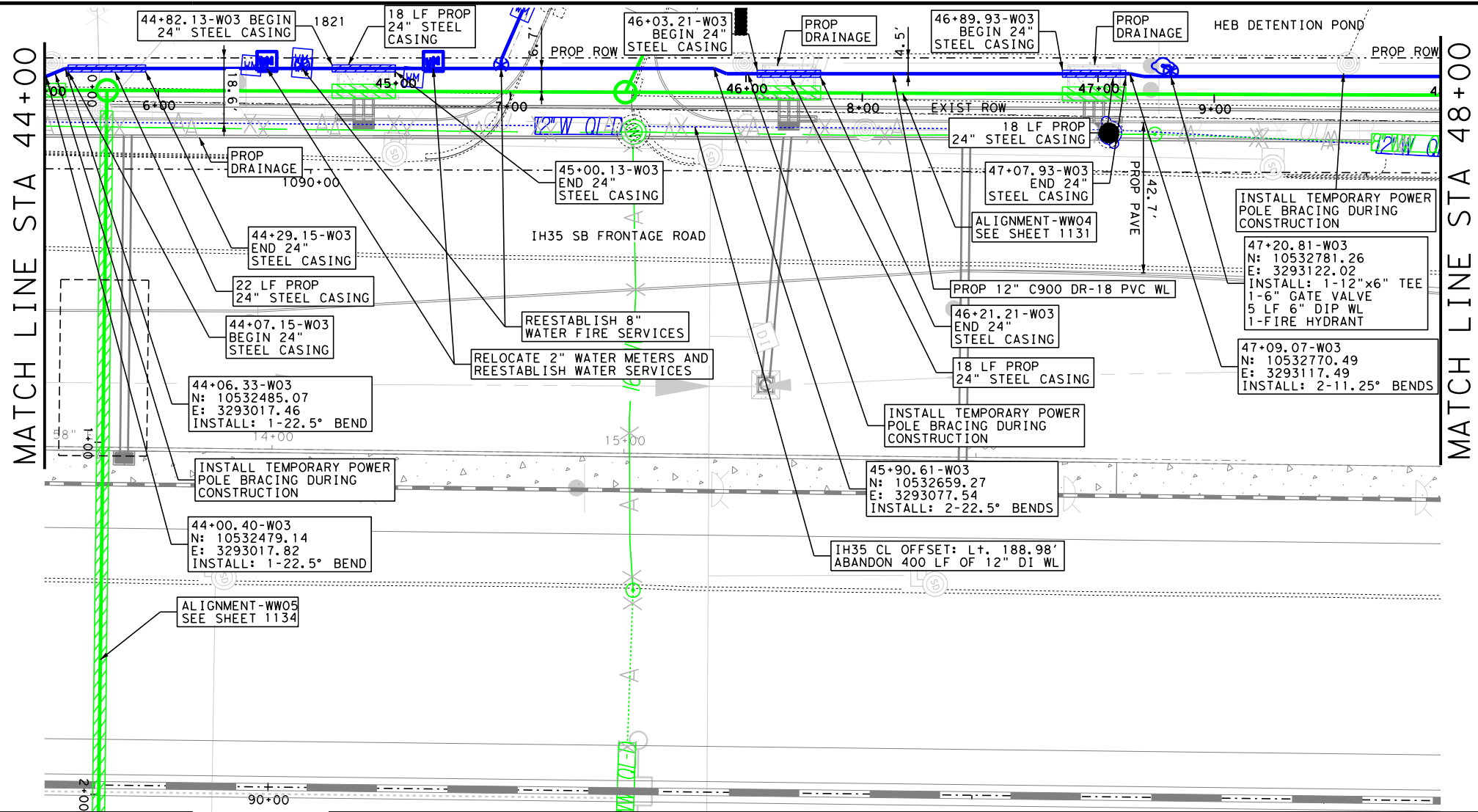
NOTES:

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2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
3. WATER SERVICE INTERRUPTIONS SHALL BE LESS THAN 8 HOURS AND TEMPORARY SERVICES SHALL BE PROVIDED IF NEEDED. 48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WACO PRIOR TO ANY SHUTDOWN.
4. WATERLINE SEGMENTS SHALL BE CENTERED OVER WASTEWATER CROSSING PER TCEQ.
5. EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
6. ALL SERVICES SHALL BE REESTABLISHED.
7. A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
8. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
9. EXISTING WATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.



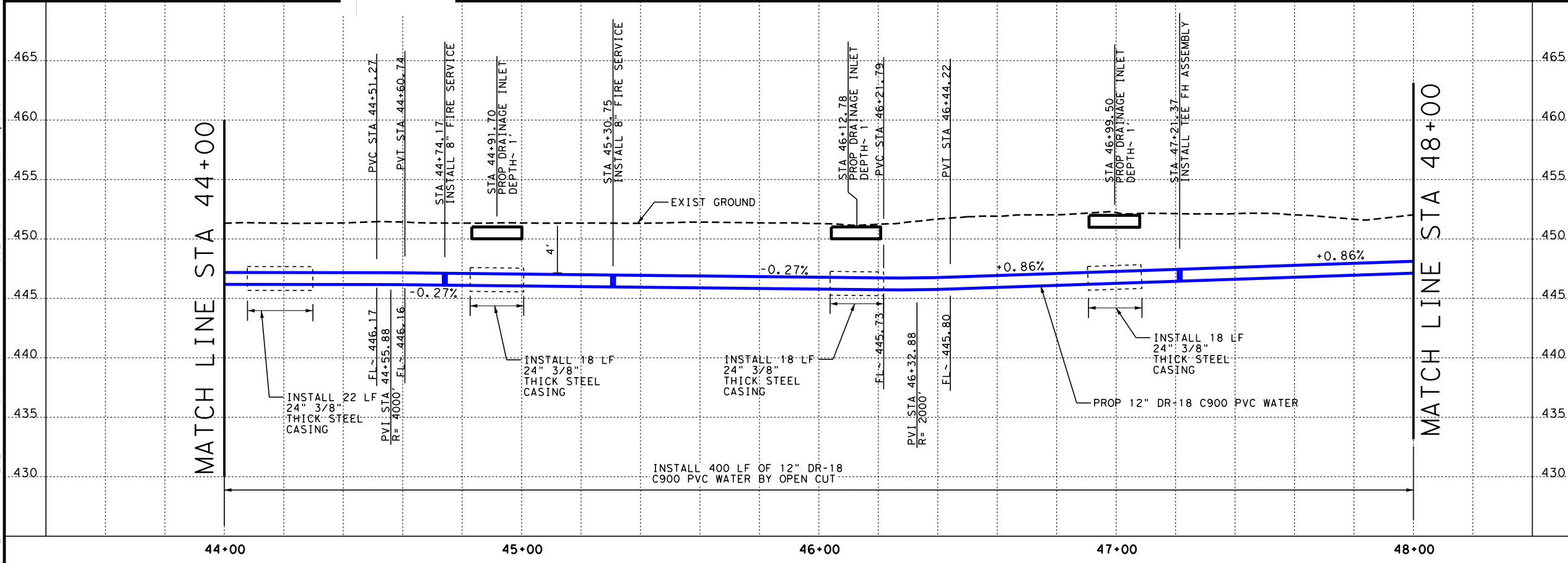
NO.	DATE	REVISION	APPROVED
			 07/17/2024
 Texas Department of Transportation			
 LINA T. RAMEY & ASSOCIATES, INC. 3320 Belt Line Rd Farmers Branch, Texas 75234 Firm Registration No. F-782			
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "03" PLAN AND PROFILE STA 40+00 TO STA 44+00			
SHEET 11 OF 13			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1084	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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NOTES:

1. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
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6. ALL SERVICES SHALL BE REESTABLISHED.
7. A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
8. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
9. EXISTING WATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.



NO.	DATE	REVISION	APPROVED

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3320 Belt Line Rd
Farmers Branch, Texas 75234
Firm Registration No. F-782

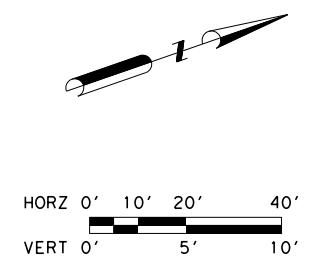
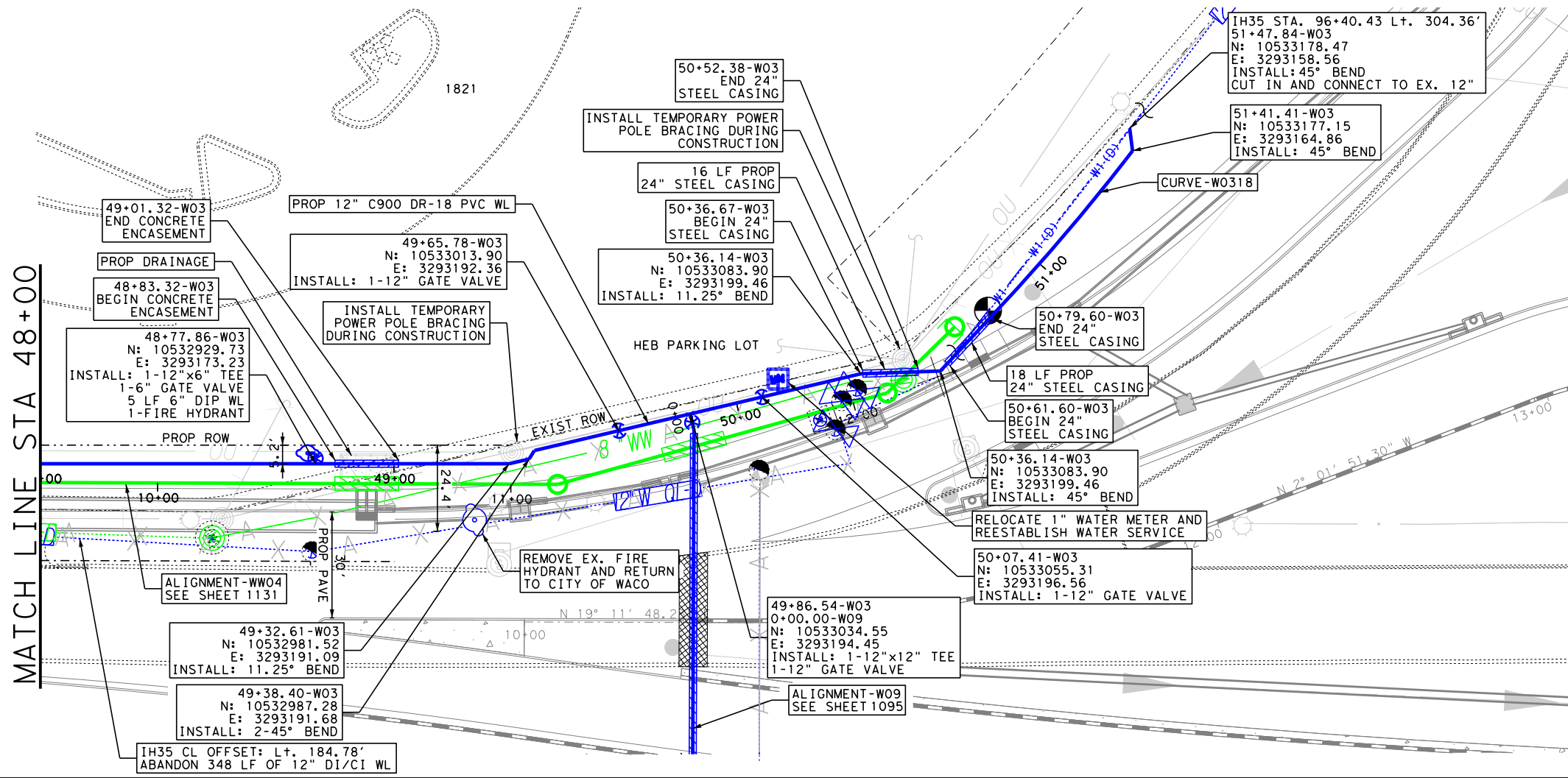
IH 35 FROM S LP 340 TO 12TH ST

WATER LINE "03"
PLAN AND PROFILE
STA 44+00 TO STA 48+00

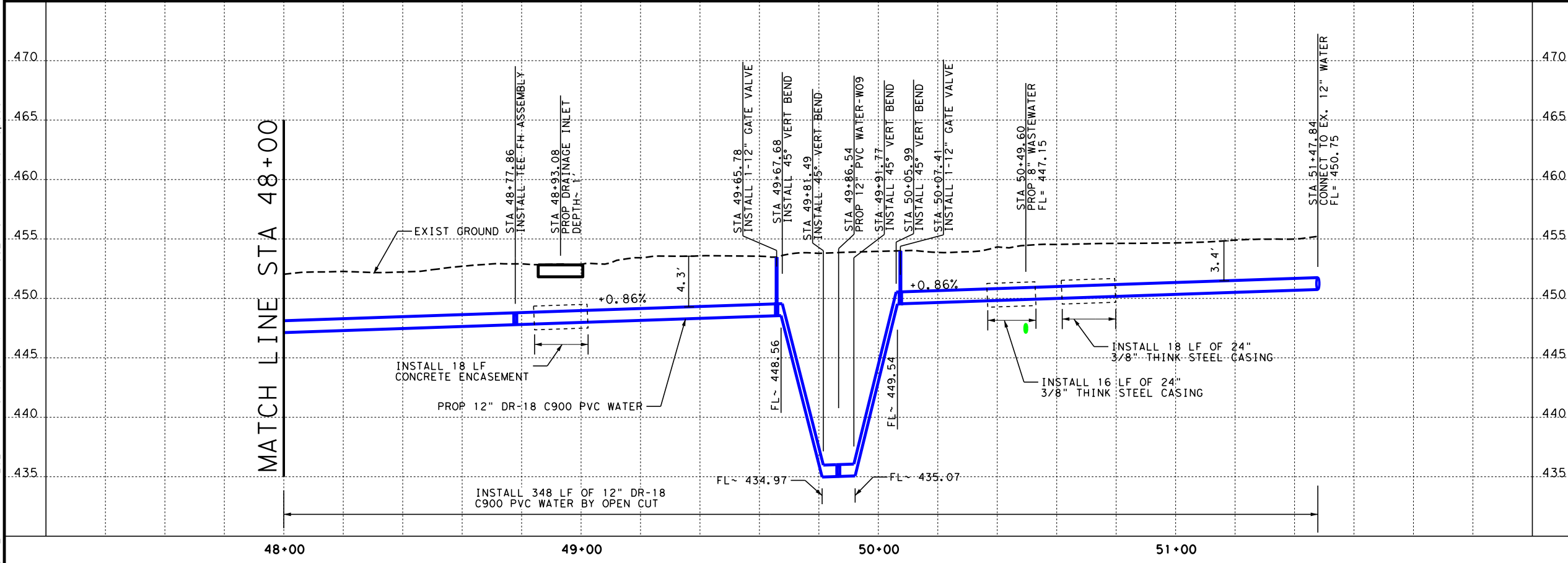
SHEET 12 OF 13

FED. RD. DIV. NO. 6	PROJECT NO. SEE TITLE SHEET	SHEET NO. 1085
STATE TEXAS	DIST. WACO	COUNTY MCLENNAN
CONT. 0015	SECT. 01	JOB 246, ETC
		HIGHWAY NO. IH 35

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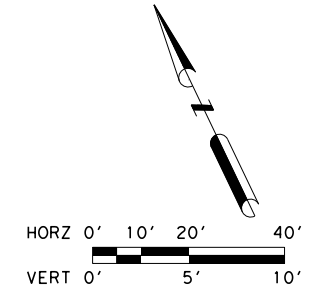
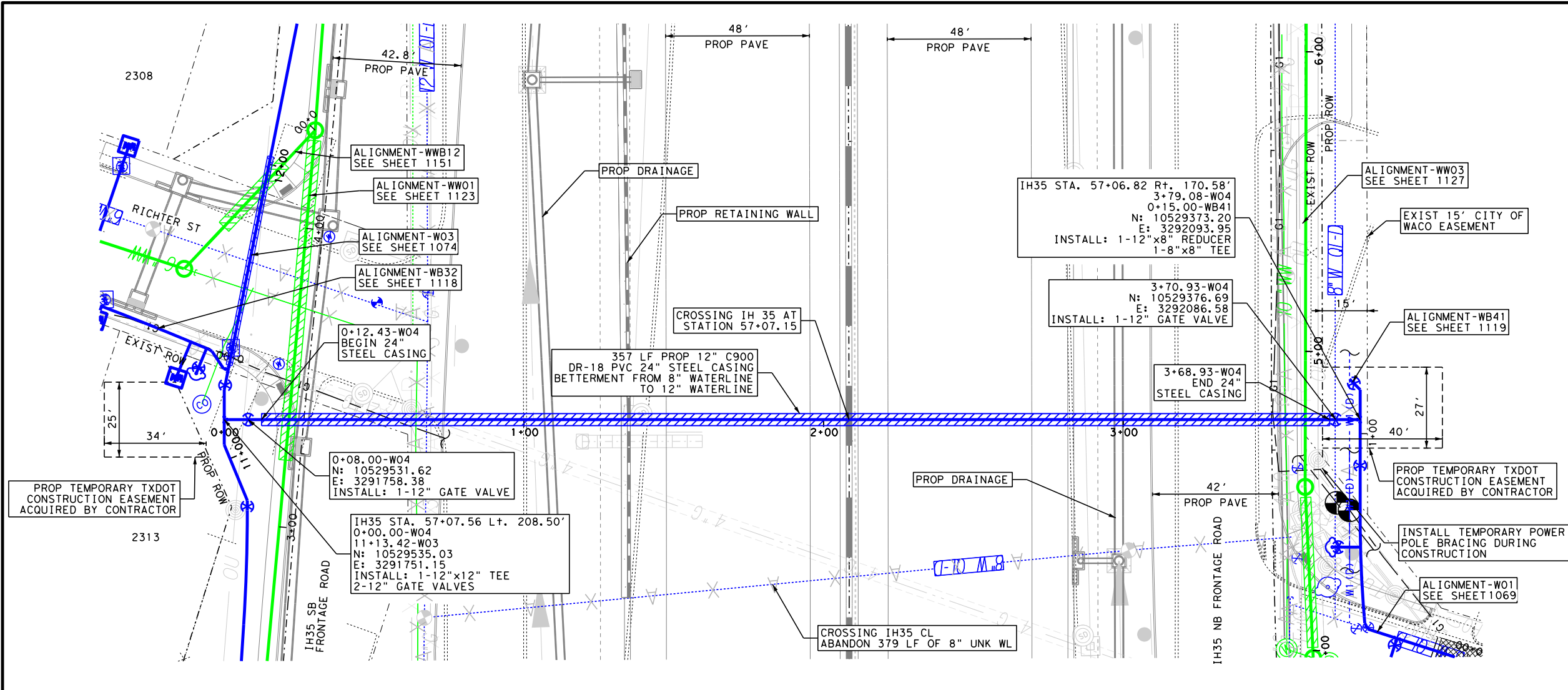


- NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 - SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 - WATER SERVICE INTERRUPTIONS SHALL BE LESS THAN 8 HOURS AND TEMPORARY SERVICES SHALL BE PROVIDED IF NEEDED. 48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WACO PRIOR TO ANY SHUTDOWN.
 - WATERLINE SEGMENTS SHALL BE CENTERED OVER WASTEWATER CROSSING PER TCEQ.
 - EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 - ALL SERVICES SHALL BE REESTABLISHED.
 - A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
 - ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 - EXISTING WATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.
 - CONNECTIONS FOR THIS LINE WILL REQUIRE COORDINATION WITH THE CITY OF WACO AND A NIGHT TIME SHUTDOWN.

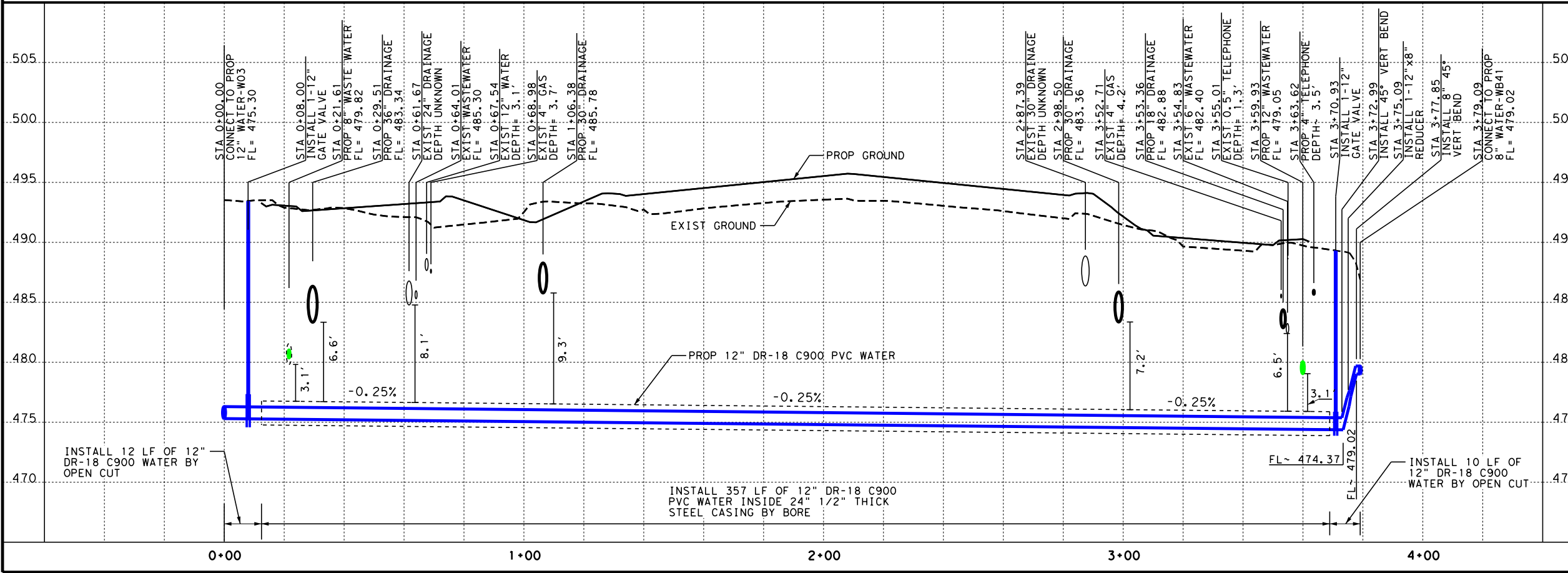


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "03" PLAN AND PROFILE STA 48+00 TO STA 51+48 SHEET 13 OF 13			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1086	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

FILE: pwt\pw-int.hntb.org\PWCentralID\Documents\Projects\68651 Waco IH 35 4C\CAD\Sheets\06 - Utilities\IH35-W04-01.dgn
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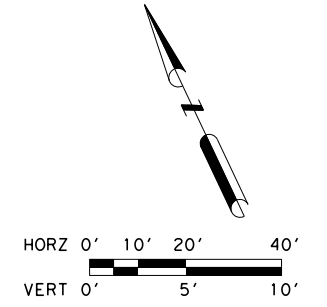
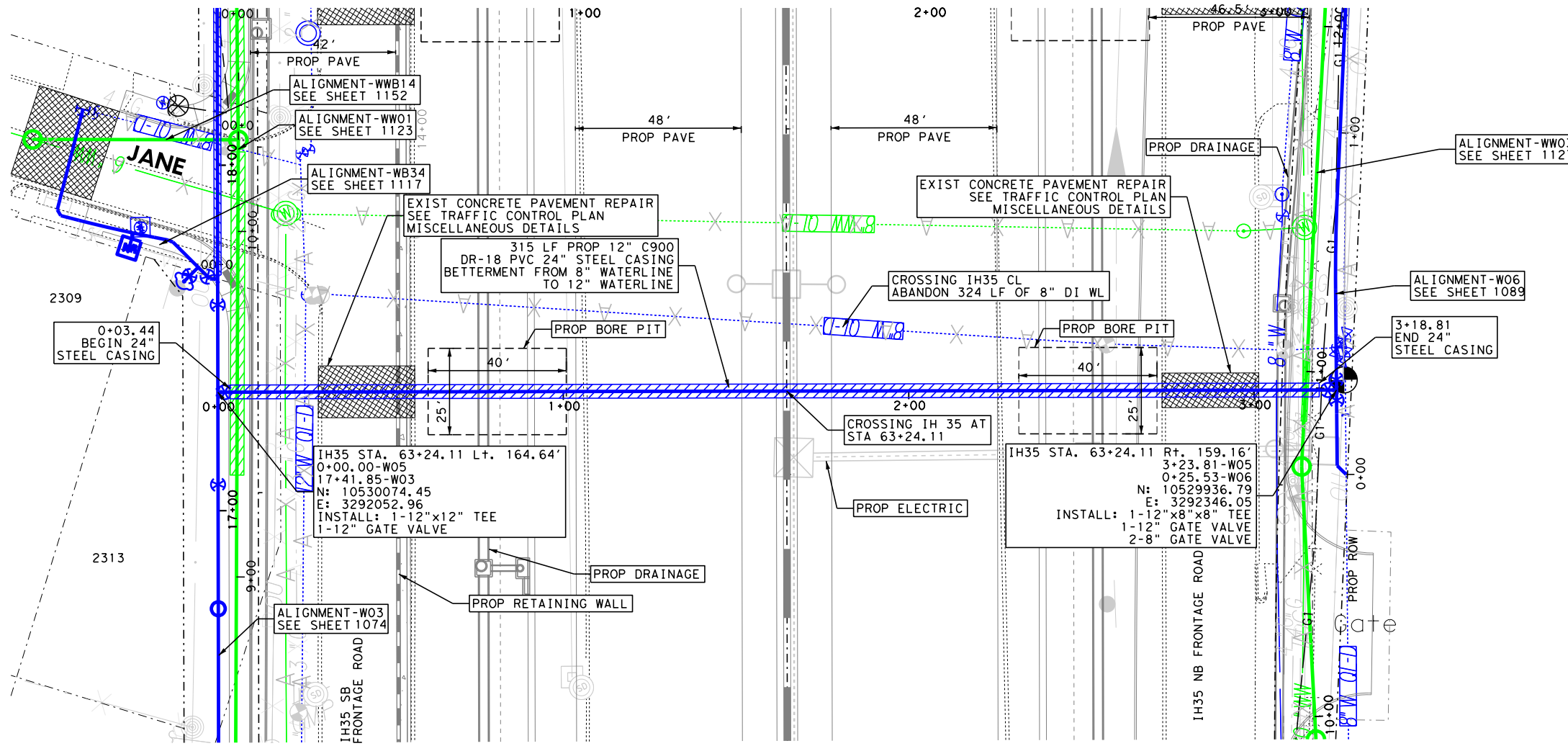


- NOTES:
- CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 - SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 - WATER SERVICE INTERRUPTIONS SHALL BE LESS THAN 8 HOURS AND TEMPORARY SERVICES SHALL BE PROVIDED IF NEEDED. 48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WACO PRIOR TO ANY SHUTDOWN.
 - WATERLINE SEGMENTS SHALL BE CENTERED OVER WASTEWATER CROSSING PER TCEQ.
 - EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 - ALL SERVICES SHALL BE REESTABLISHED.
 - A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
 - ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 - EXISTING WATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT PERPENDICULARLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.

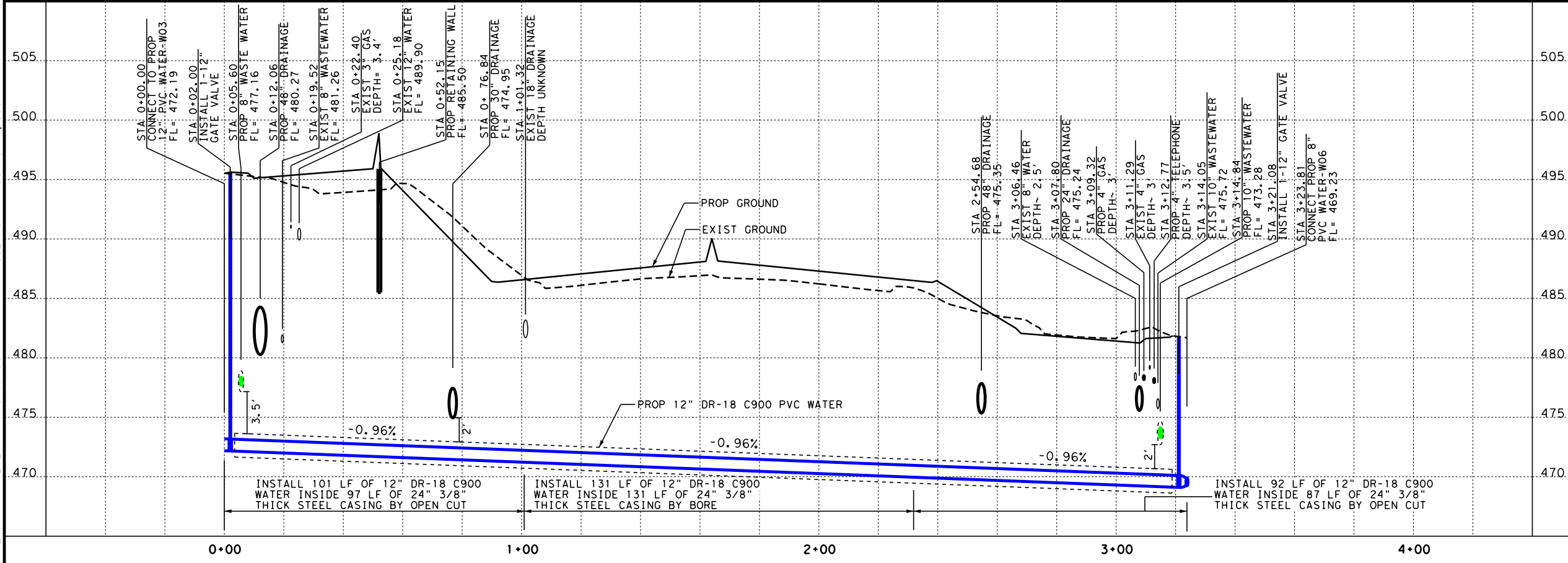


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "04" PLAN AND PROFILE STA 0+00 TO STA 3+60			
			SHEET 1 OF 1
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1087	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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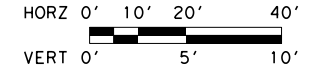
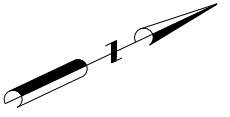
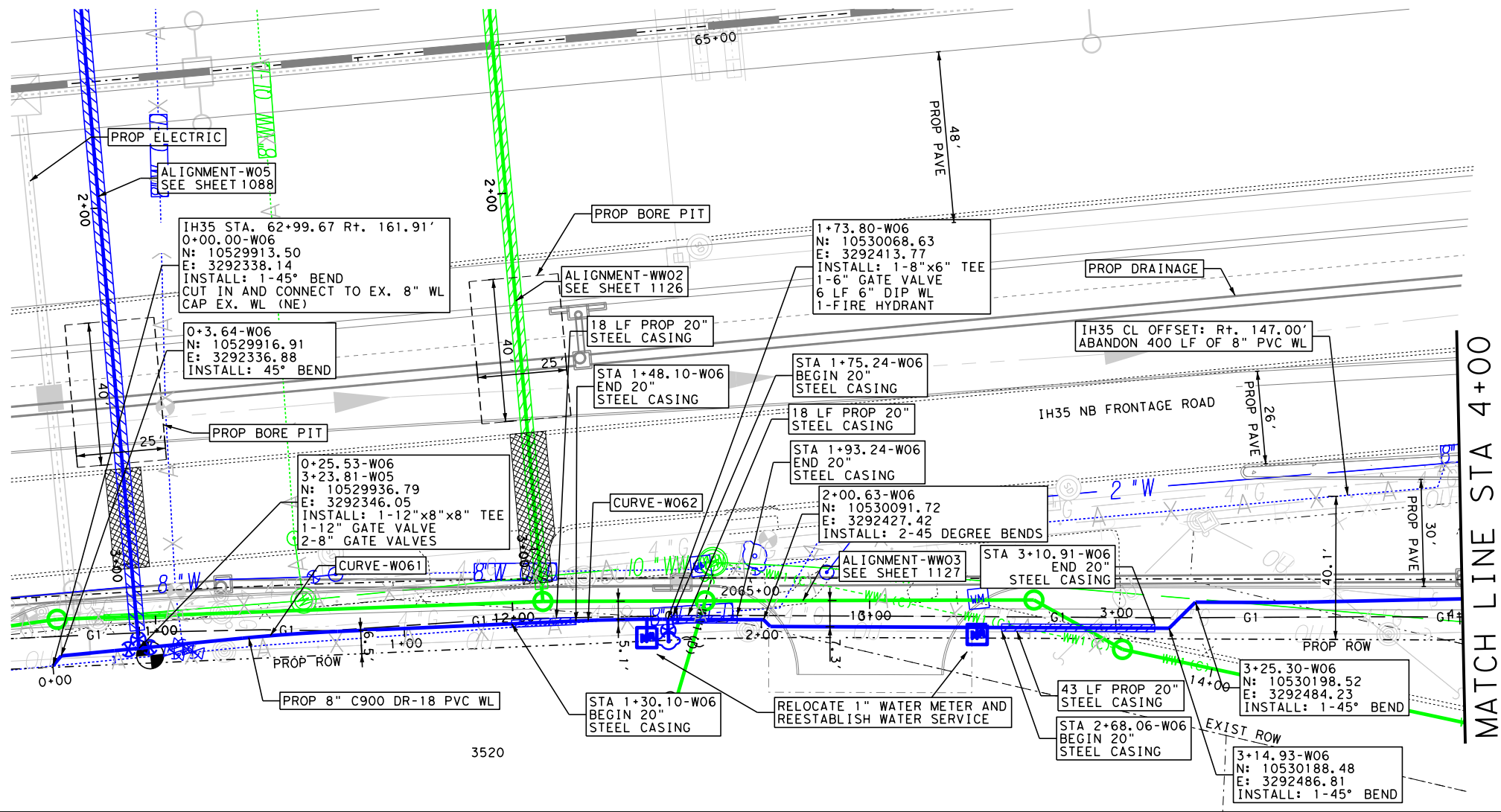


- NOTES:**
1. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 3. WATER SERVICE INTERRUPTIONS SHALL BE LESS THAN 8 HOURS AND TEMPORARY SERVICES SHALL BE PROVIDED IF NEEDED. 48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WACO PRIOR TO ANY SHUTDOWN.
 4. WATERLINE SEGMENTS SHALL BE CENTERED OVER WASTEWATER CROSSING PER TCEQ.
 5. EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 6. ALL SERVICES SHALL BE REESTABLISHED.
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 8. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
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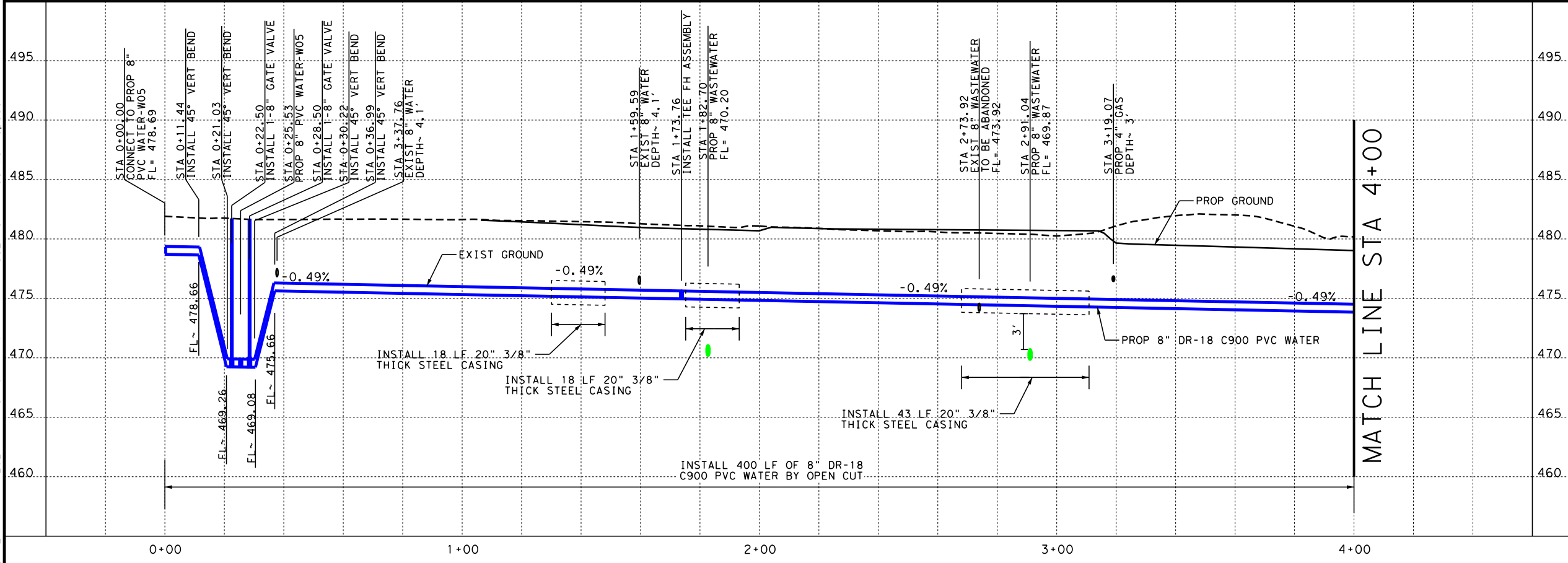


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "05" PLAN AND PROFILE STA 0+00 TO STA 3+24			
SHEET 1 OF 1			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1088	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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 - ALL SERVICES SHALL BE REESTABLISHED.
 - A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
 - ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 - FINAL DESIGN PENDING ADDITIONAL SUE, TXDOT AND CITY OF WACO REVIEW.
 - EXISTING WATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.



NO.	DATE	REVISION	APPROVED

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LTRA LINA T. RAMEY & ASSOCIATES, INC.
3320 Belt Line Rd
Farmers Branch, Texas 75234
Firm Registration No. F-782

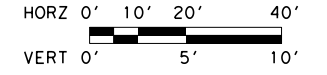
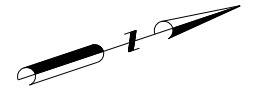
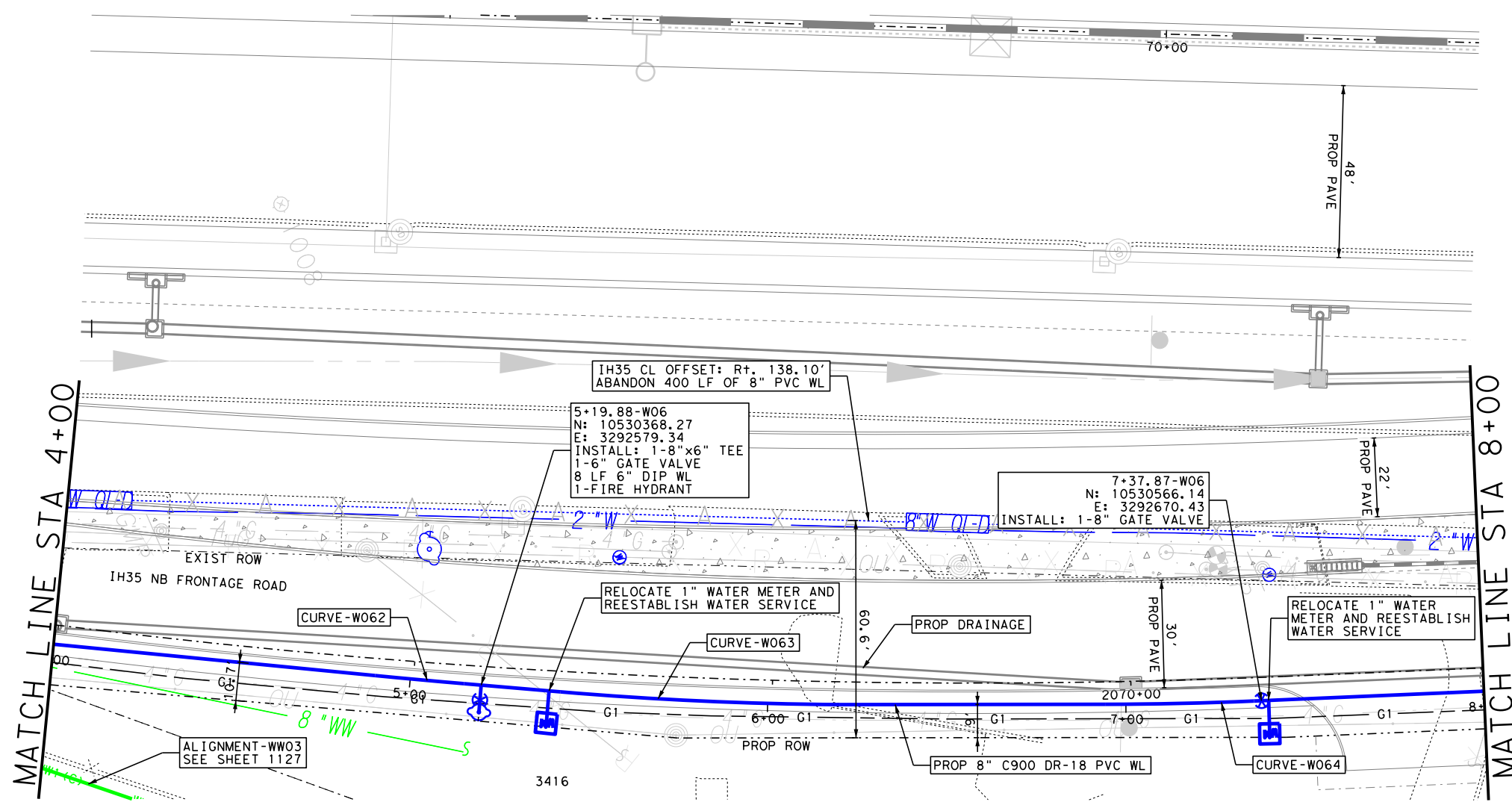
IH 35 FROM S LP 340 TO 12TH ST

WATER LINE "06"
PLAN AND PROFILE
STA 0+00 TO STA 4+00

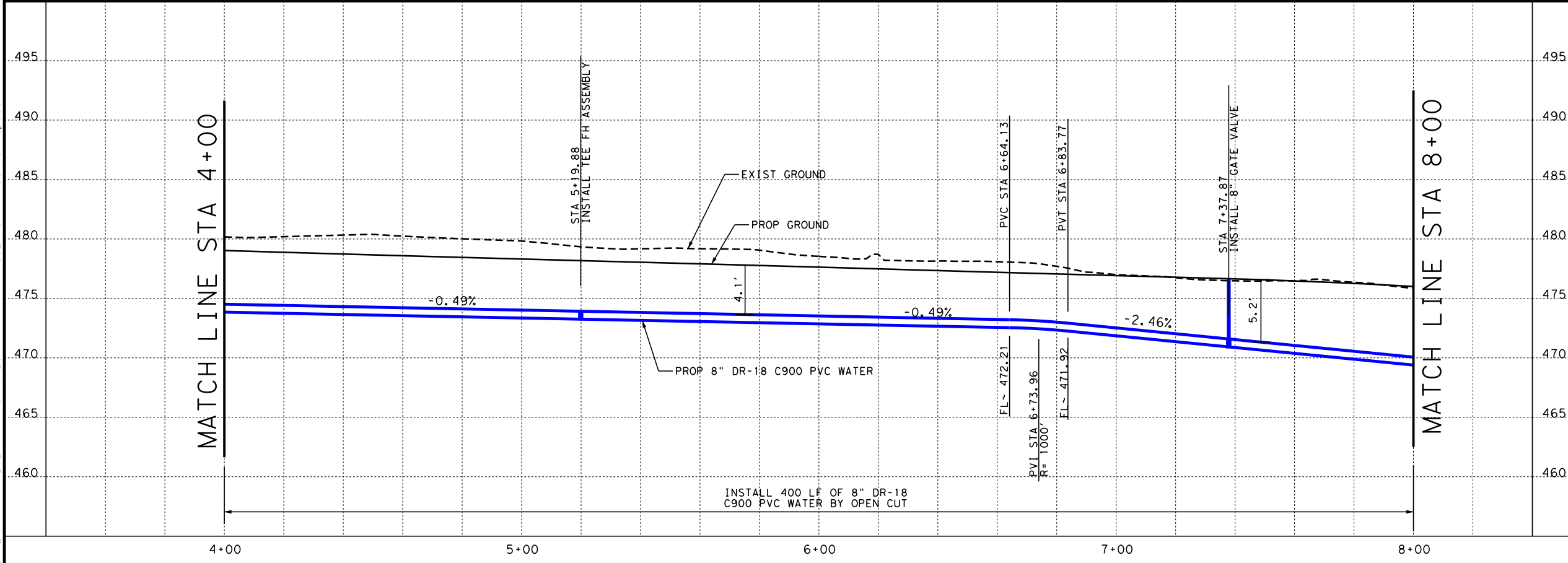
SHEET 1 OF 4

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1089	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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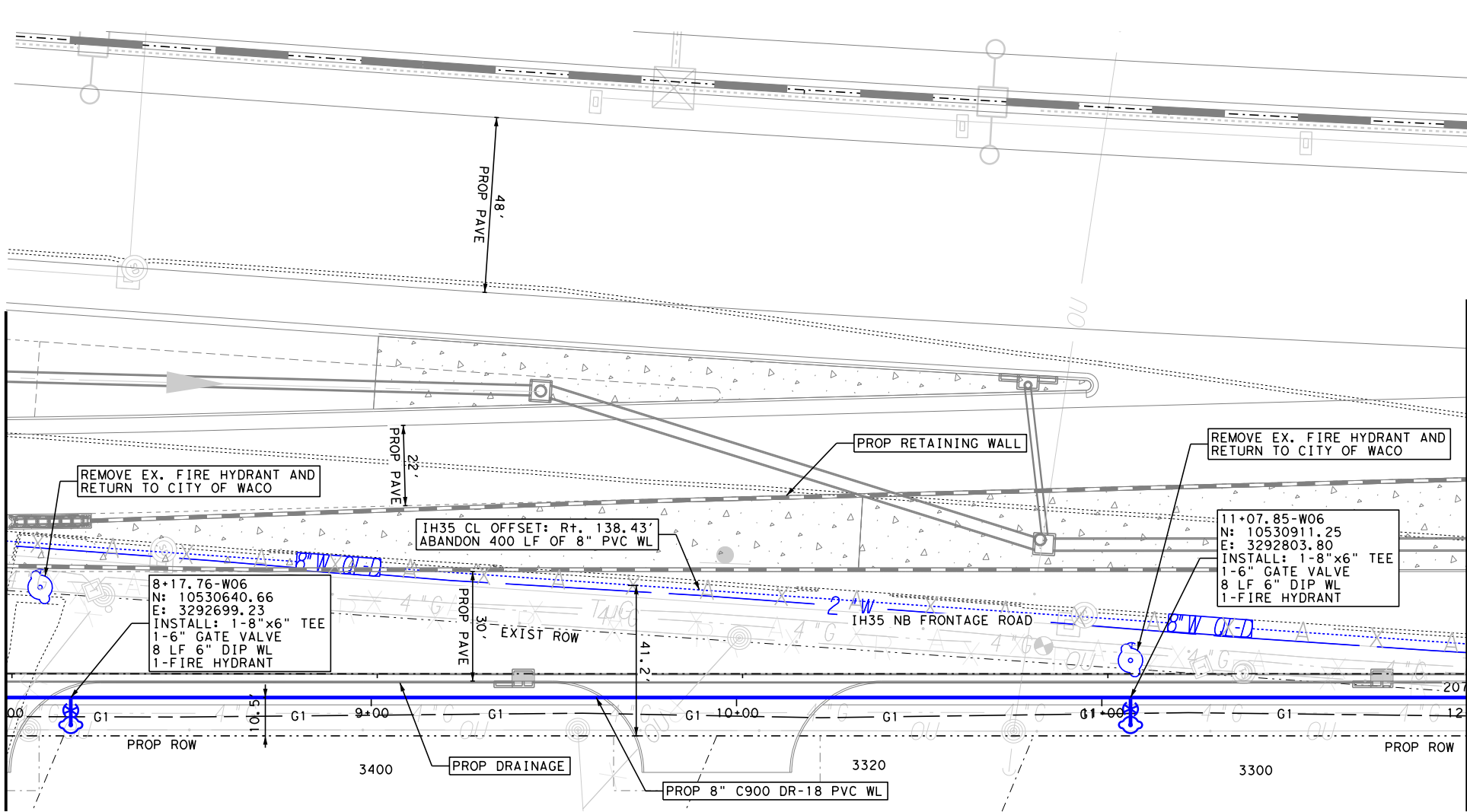
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 8. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 9. EXISTING WATER IS IN CONFLICT WITH PROPOSED PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.



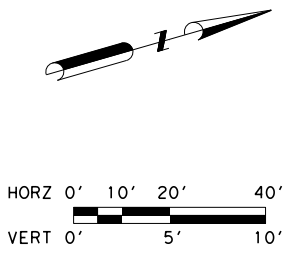
NO.	DATE	REVISION	APPROVED
			07/17/2024
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "06" PLAN AND PROFILE STA 4+00 TO STA 8+00			
SHEET 2 OF 4			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1090	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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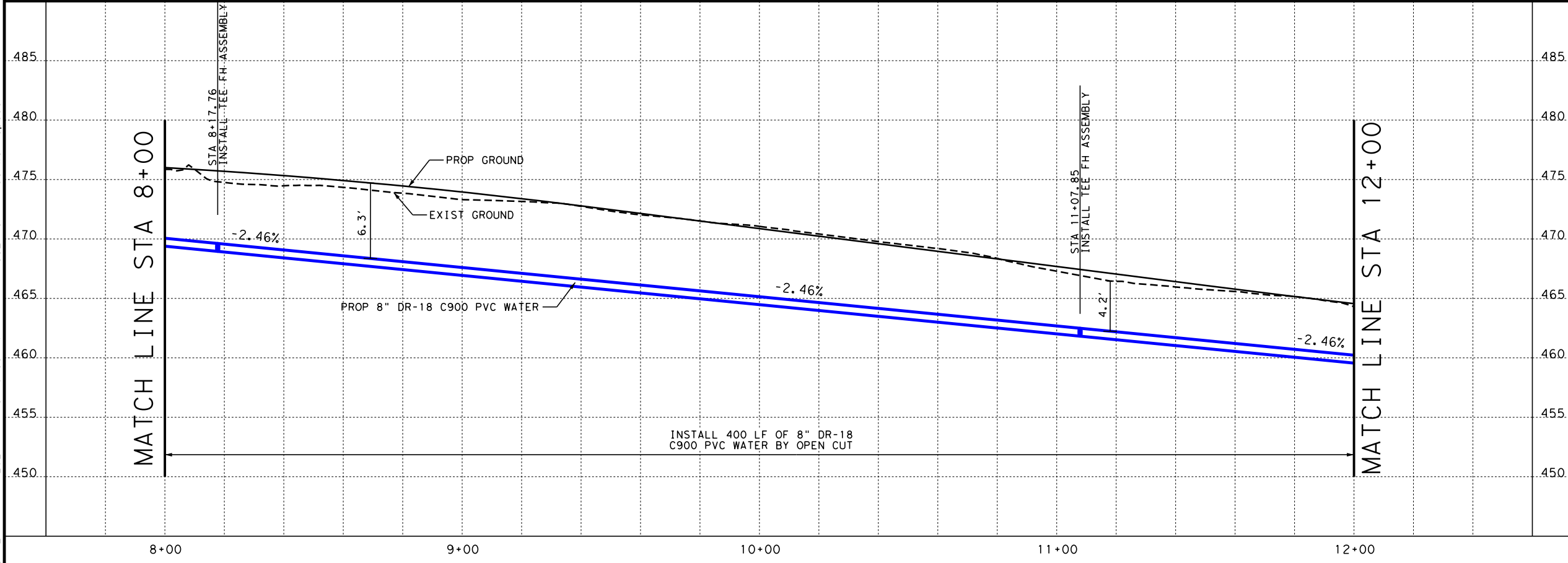
MATCH LINE STA 8+00



MATCH LINE STA 12+00

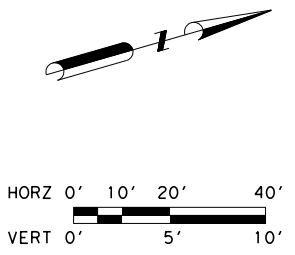
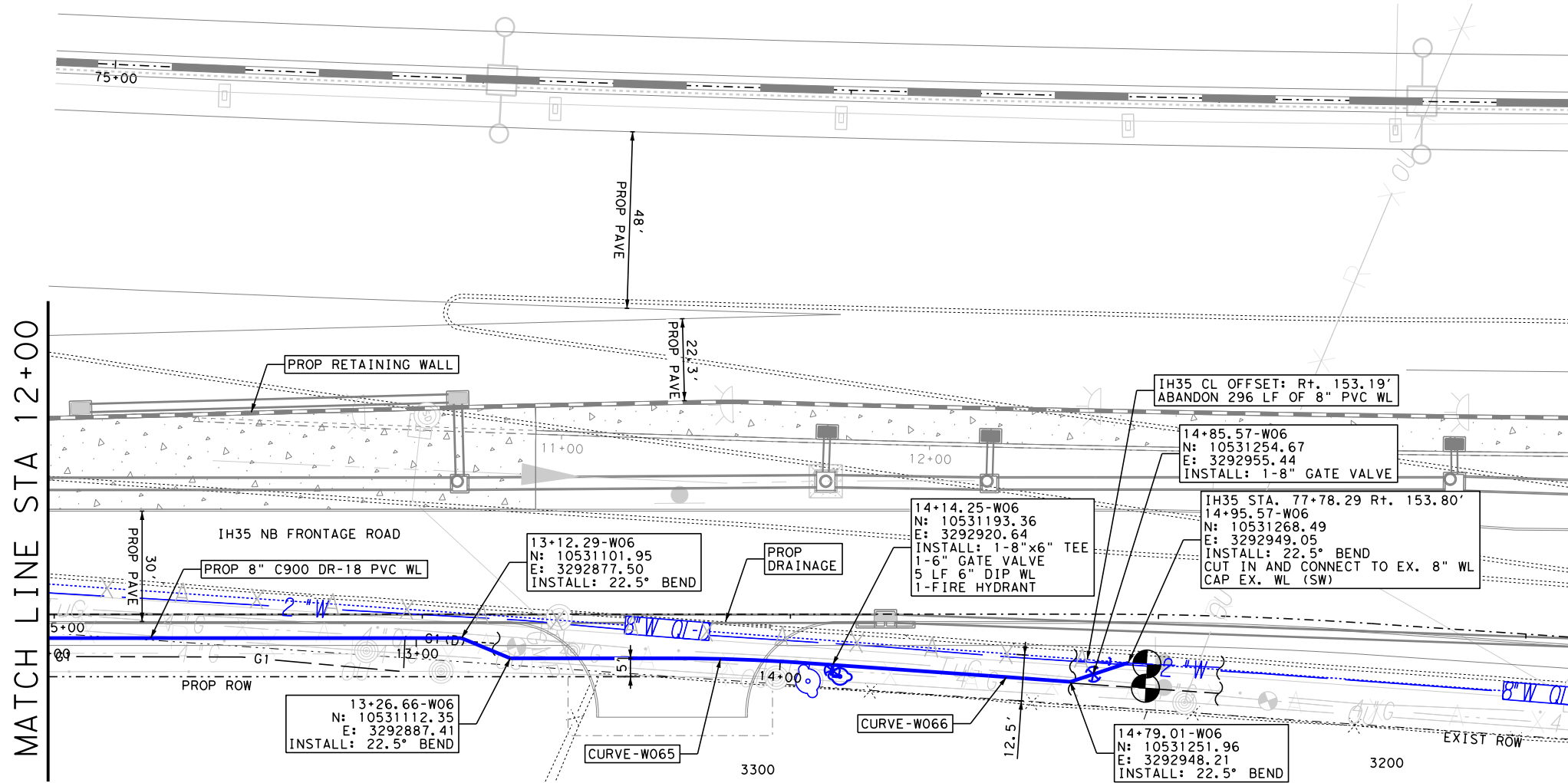


- NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 - SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 - WATER SERVICE INTERRUPTIONS SHALL BE LESS THAN 8 HOURS AND TEMPORARY SERVICES SHALL BE PROVIDED IF NEEDED. 48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WACO PRIOR TO ANY SHUTDOWN.
 - WATERLINE SEGMENTS SHALL BE CENTERED OVER WASTEWATER CROSSING PER TCEQ.
 - EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 - ALL SERVICES SHALL BE REESTABLISHED.
 - A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
 - ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 - EXISTING WATER IS IN CONFLICT WITH PROPOSED PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.

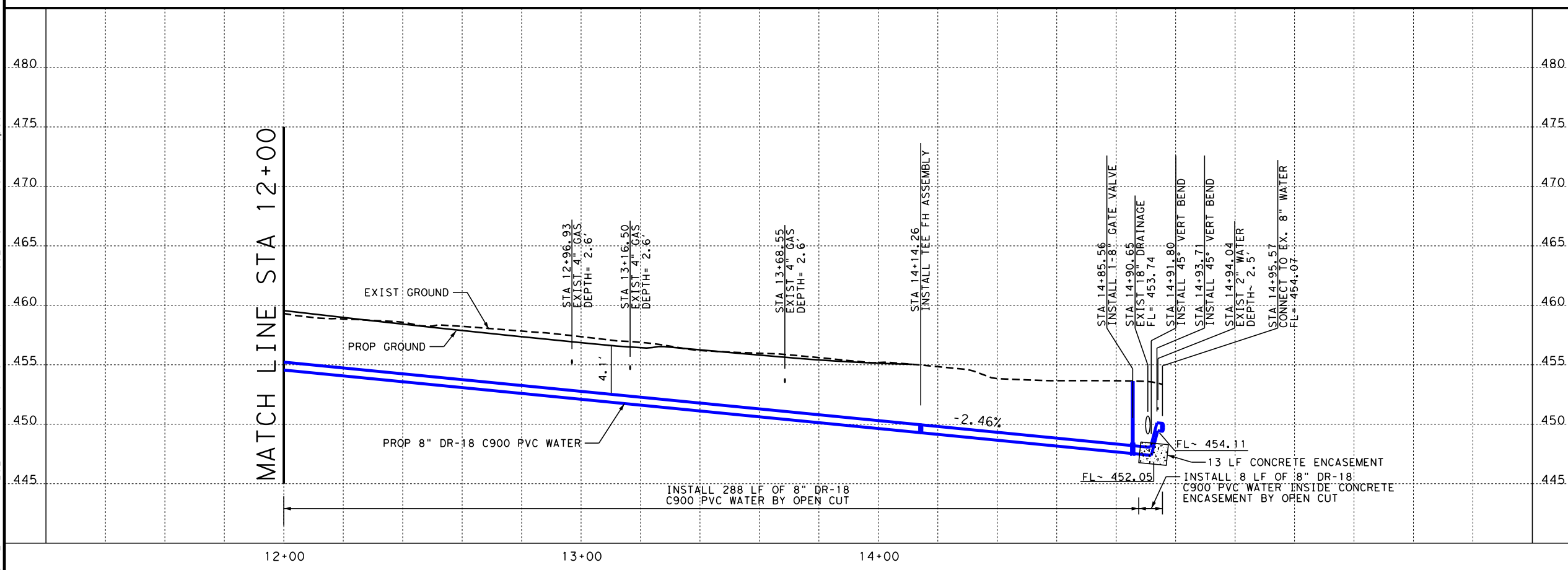


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "06" PLAN AND PROFILE STA 8+00 TO STA 12+00			
SHEET 3 OF 4			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1091	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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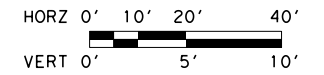
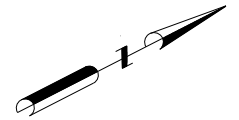


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 - EXISTING WATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.



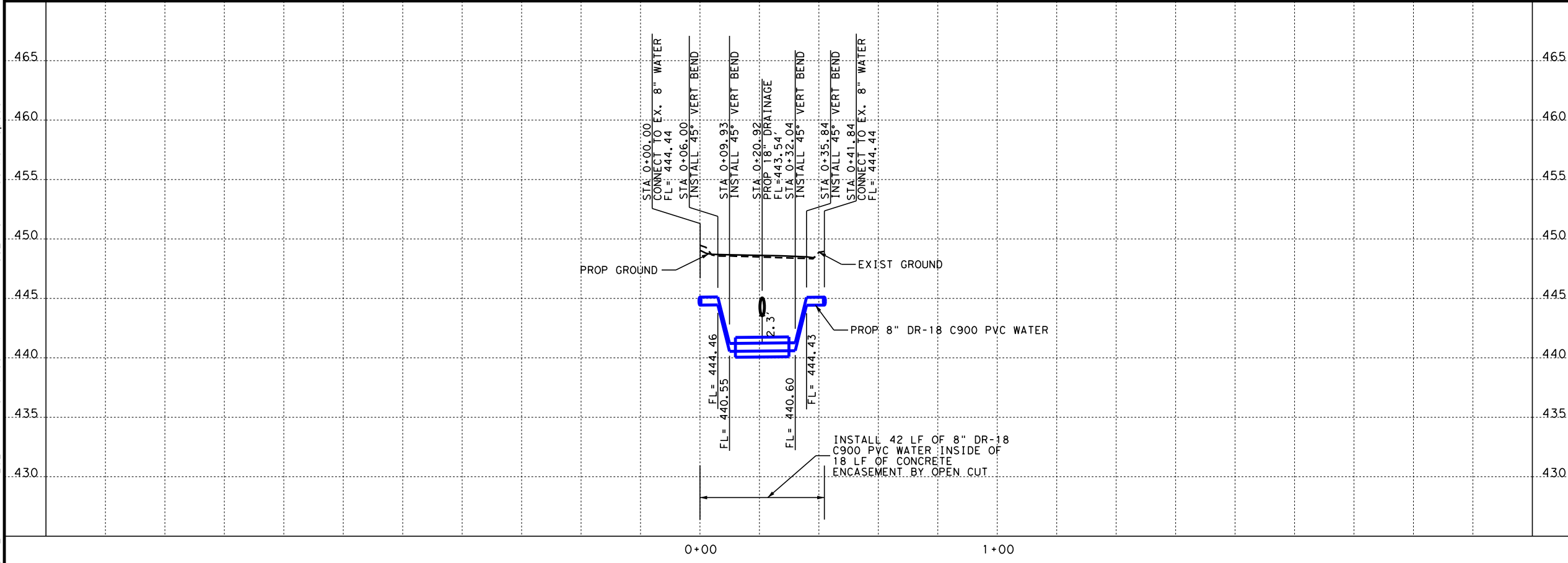
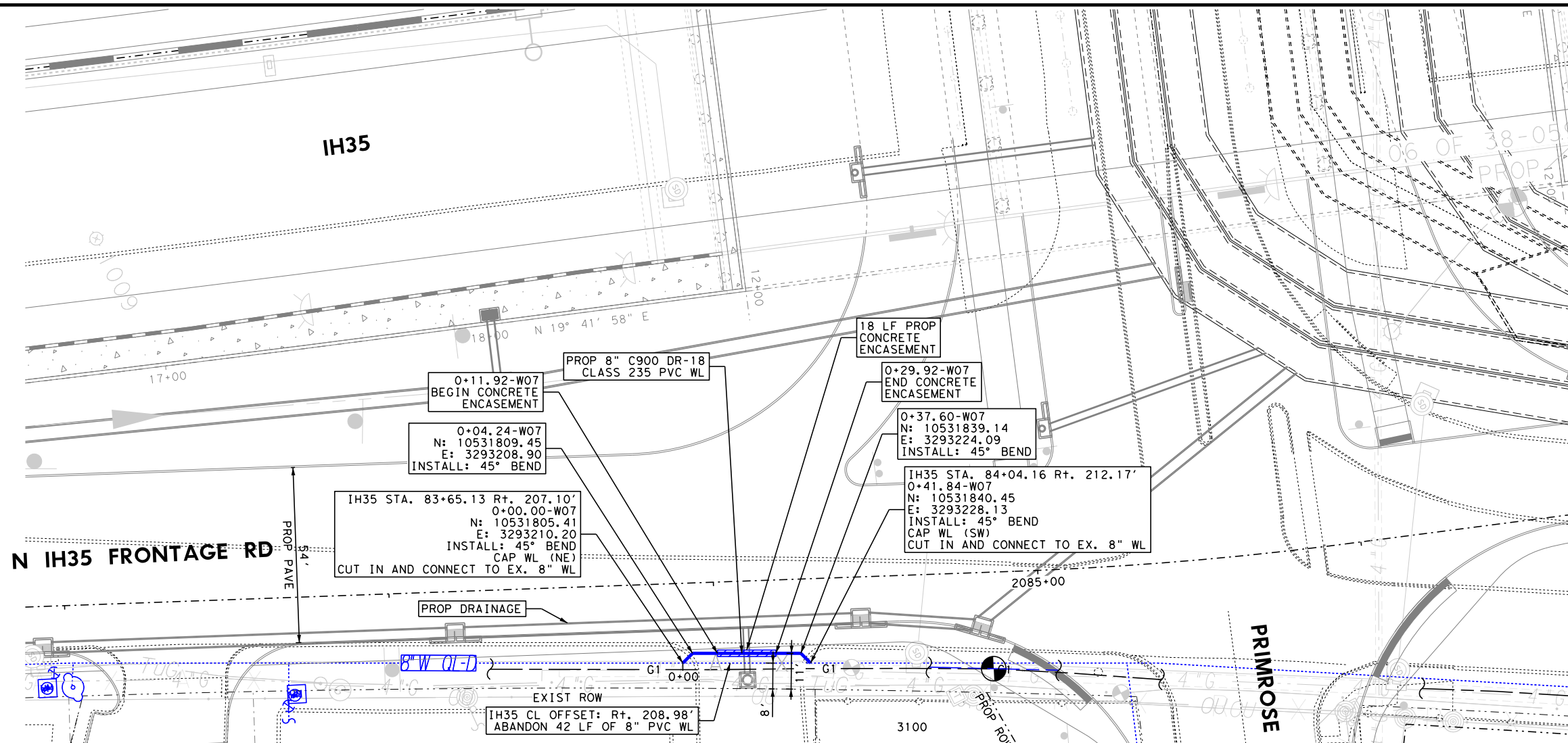
NO.	DATE	REVISION	APPROVED
			07/17/2024
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "06" PLAN AND PROFILE STA 12+00 TO STA 14+96			
SHEET 4 OF 4			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1092	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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NOTES:

1. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
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4. WATERLINE SEGMENTS SHALL BE CENTERED OVER WASTEWATER CROSSING PER TCEQ.
5. EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
6. ALL SERVICES SHALL BE REESTABLISHED.
7. A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
8. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
9. EXISTING WATER IS IN CONFLICT WITH PROPOSED DRAINAGE PERPENDICULARLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.



NO.	DATE	REVISION	APPROVED

07/17/2024

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 3320 Belt Line Rd
 Farmers Branch, Texas 75234
 Firm Registration No. F-782

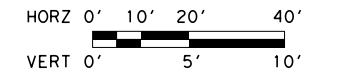
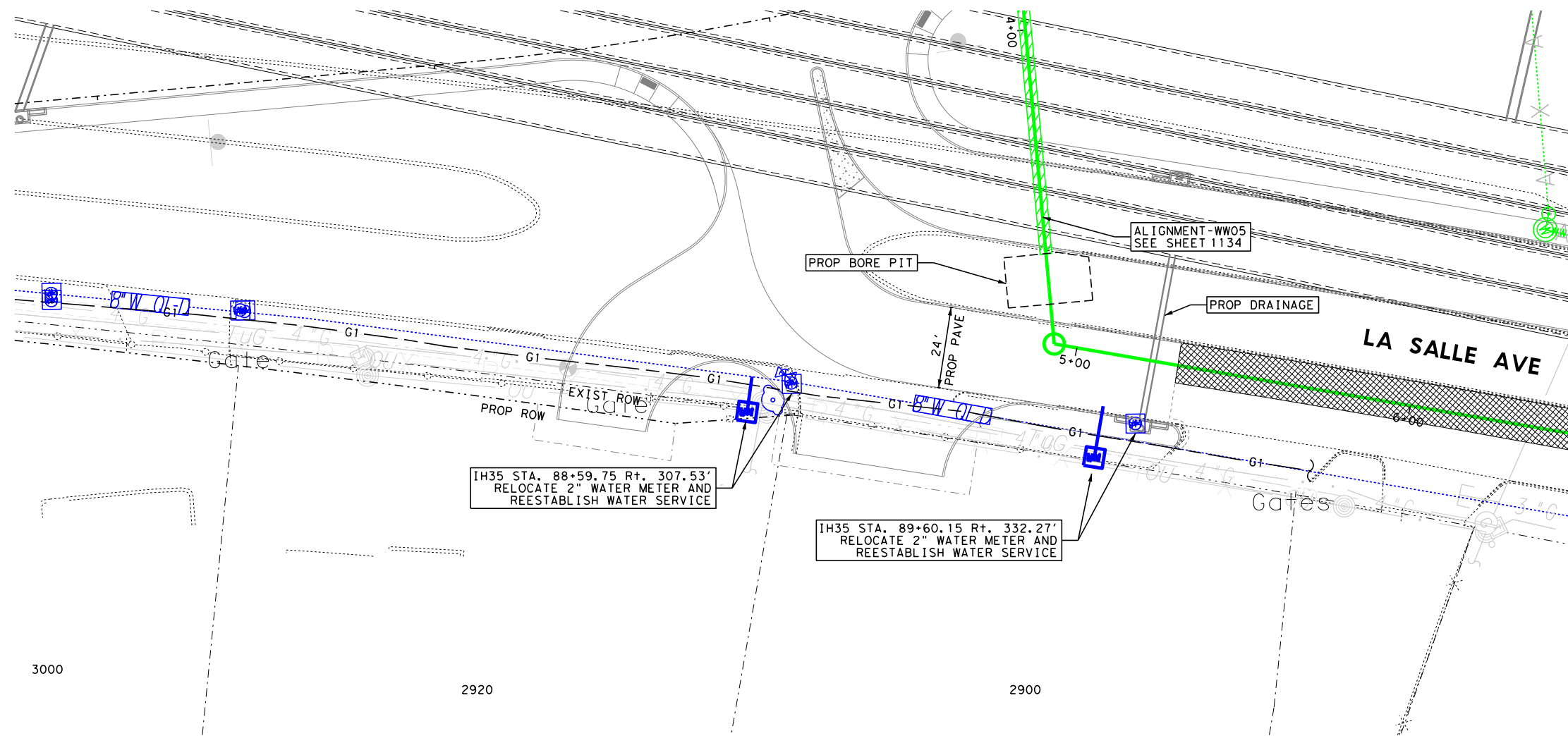
IH 35 FROM S LP 340 TO 12TH ST

 WATER LINE "07"
 PLAN AND PROFILE
 STA 0+00 TO STA 0+42

 SHEET 1 OF 1

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1093	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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NOTES:

1. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
3. WATER SERVICE INTERRUPTIONS SHALL BE LESS THAN 8 HOURS AND TEMPORARY SERVICES SHALL BE PROVIDED IF NEEDED. 48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WACO PRIOR TO ANY SHUTDOWN.
4. WATERLINE SEGMENTS SHALL BE CENTERED OVER WASTEWATER CROSSING PER TCEQ.
5. EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
6. ALL SERVICES SHALL BE REESTABLISHED.
7. A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
8. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
9. EXISTING WATER METERS ARE IN CONFLICT WITH PROPOSED PAVEMENT AND DRAINAGE. THE METERS ARE BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.

3000

2920

2900

NO PROFILE

NO.	DATE	REVISION	APPROVED
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07/17/2024



LTRA LINA T. RAMEY & ASSOCIATES, INC.
 3320 Belt Line Rd
 Farmers Branch, Texas 75234
 Firm Registration No. F-782

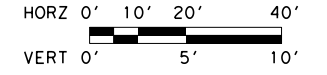
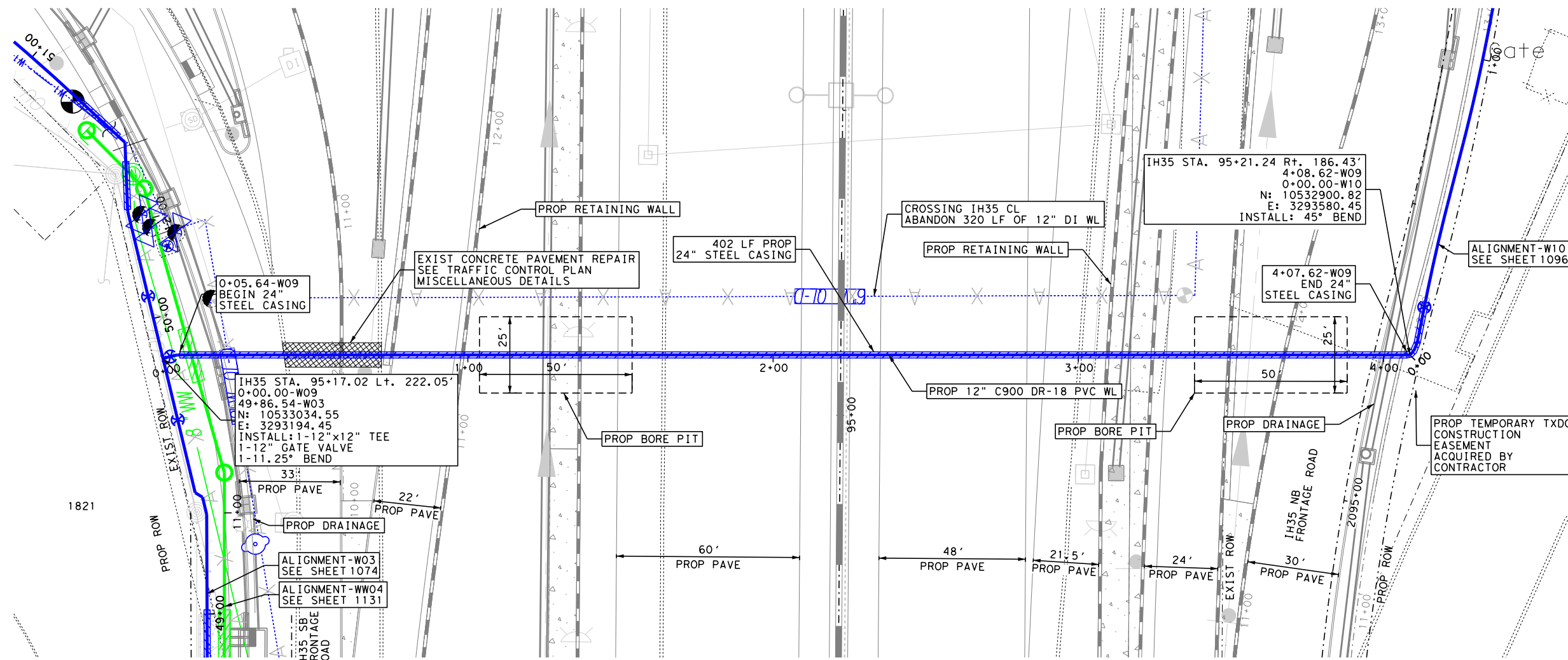
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WATER LINE "08"
 PLAN

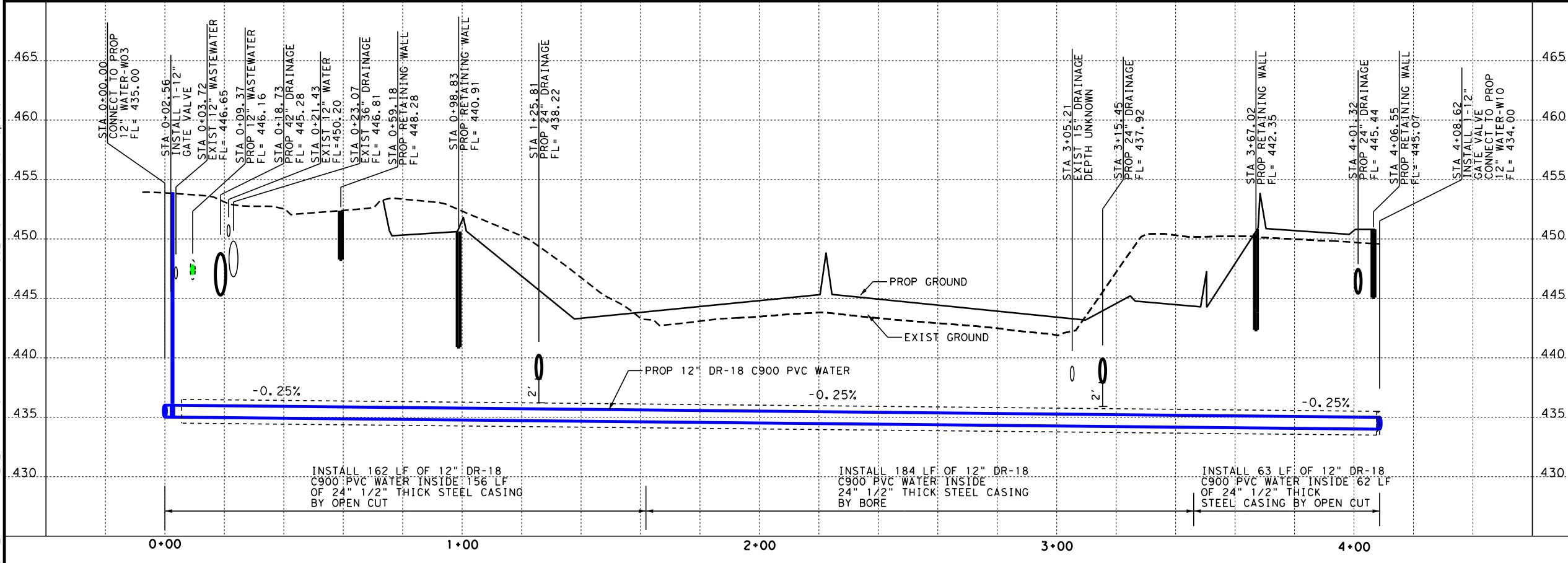
SHEET 1 OF 1

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STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
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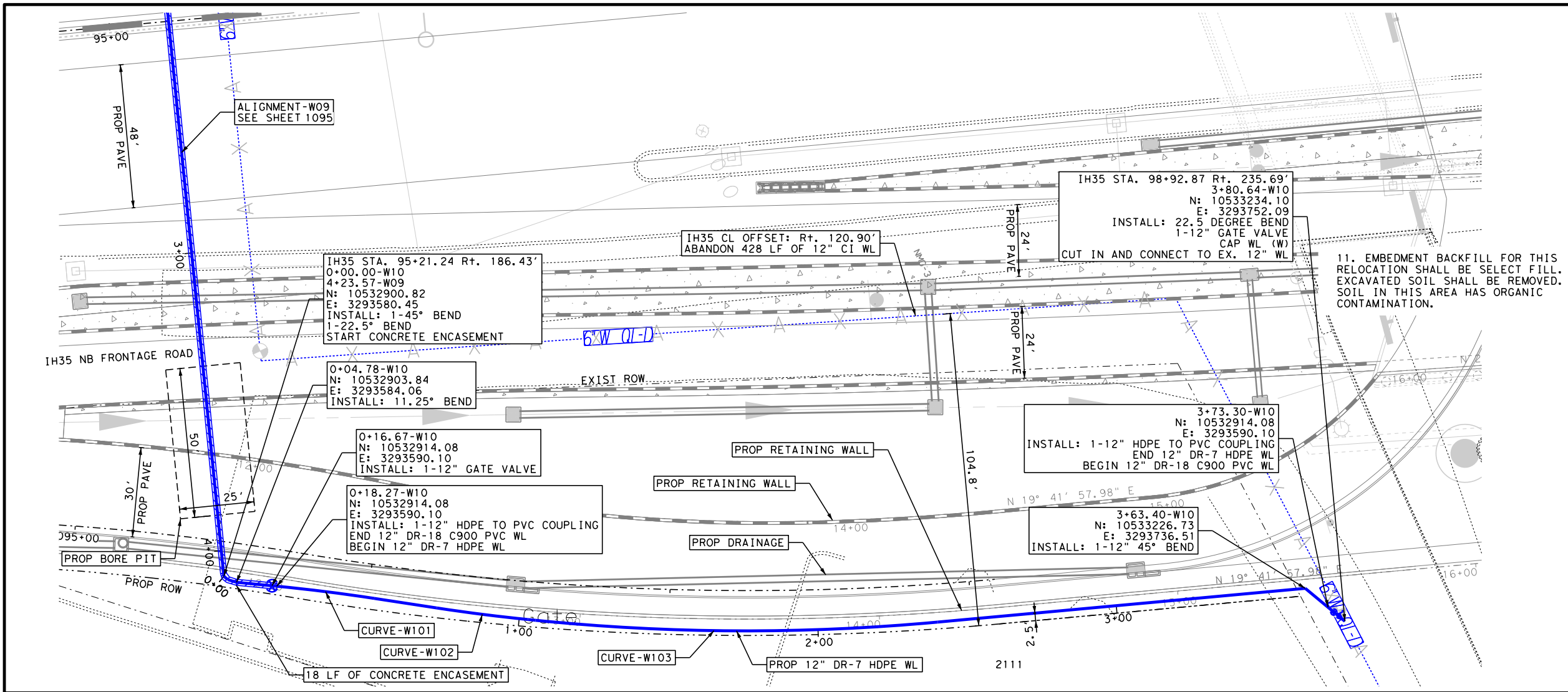
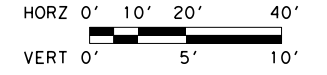
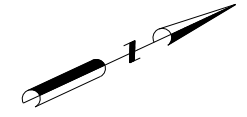


- NOTES:**
1. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 3. WATER SERVICE INTERRUPTIONS SHALL BE LESS THAN 8 HOURS AND TEMPORARY SERVICES SHALL BE PROVIDED IF NEEDED. 48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WACO PRIOR TO ANY SHUTDOWN.
 4. WATERLINE SEGMENTS SHALL BE CENTERED OVER WASTEWATER CROSSING PER TCEQ.
 5. EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 6. ALL SERVICES SHALL BE REESTABLISHED.
 7. A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
 8. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 9. EXISTING WATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT PERPENDICULARLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.



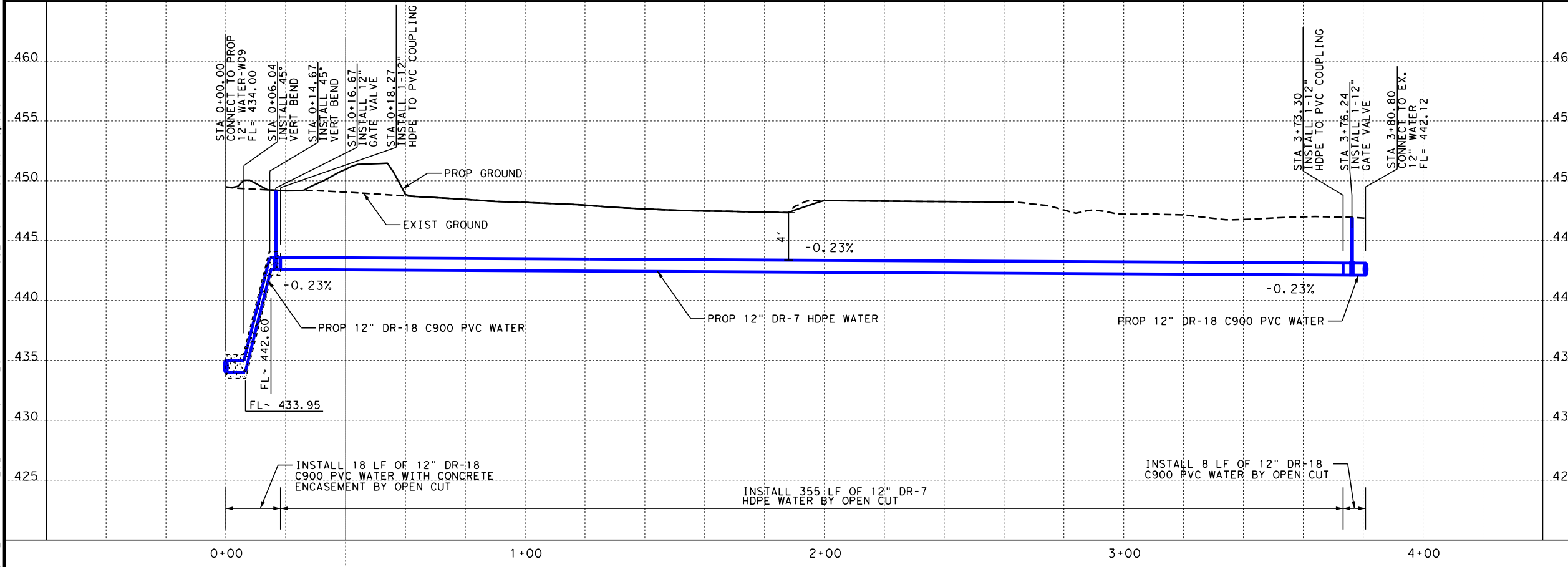
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SHEET 1 OF 1			
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6	SEE TITLE SHEET	1095	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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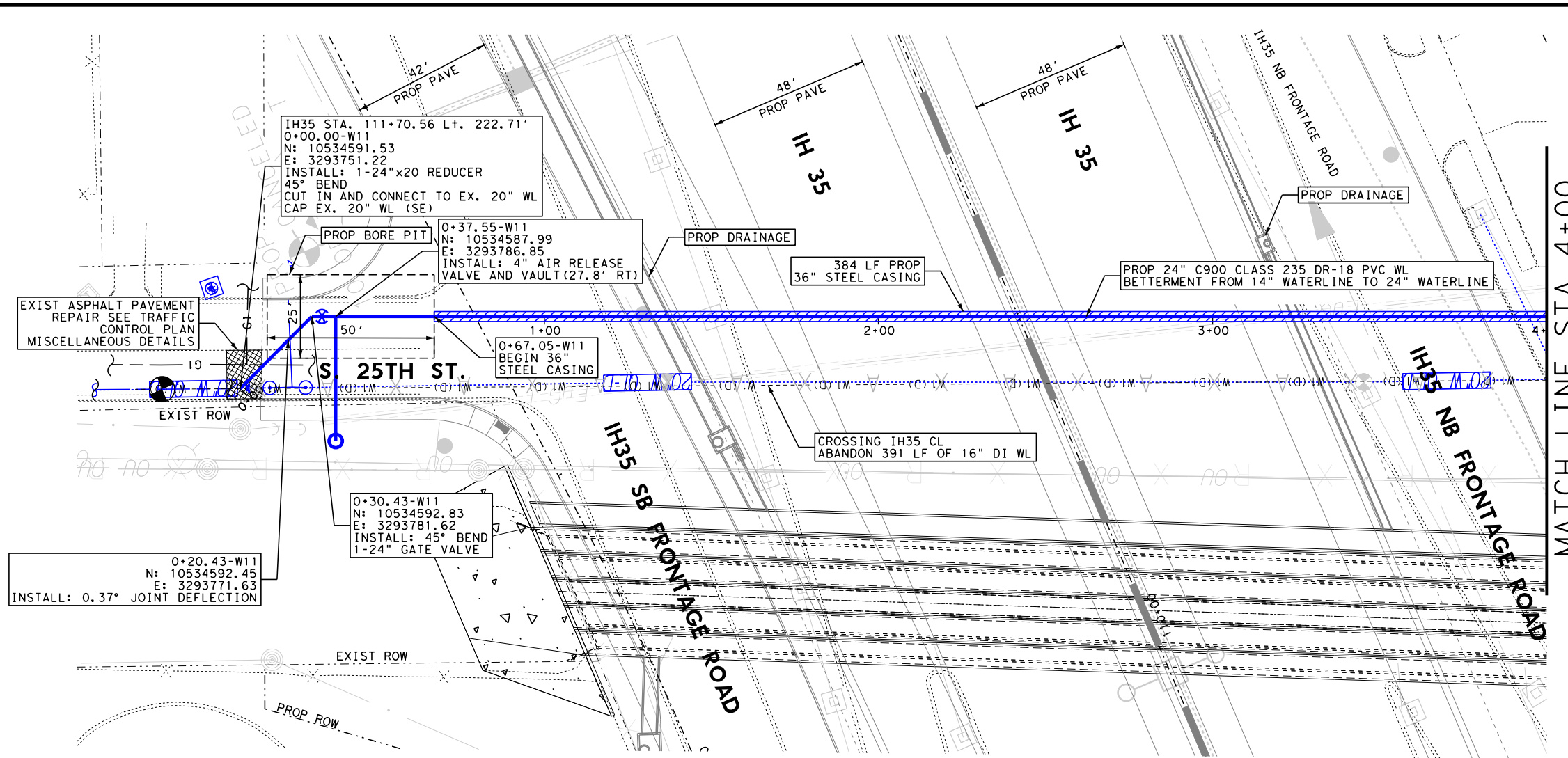
NOTES:

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5. EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
6. ALL SERVICES SHALL BE REESTABLISHED.
7. A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
8. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
9. FINAL DESIGN PENDING ADDITIONAL SUE, TXDOT AND CITY OF WACO REVIEW.
10. EXISTING WATER IS IN CONFLICT WITH PROPOSED PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.

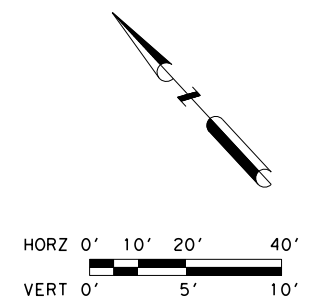


NO.	DATE	REVISION	APPROVED
			07/17/2024
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "10" PLAN AND PROFILE STA 0+00 TO STA 3+81			
			SHEET 1 OF 1
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1096	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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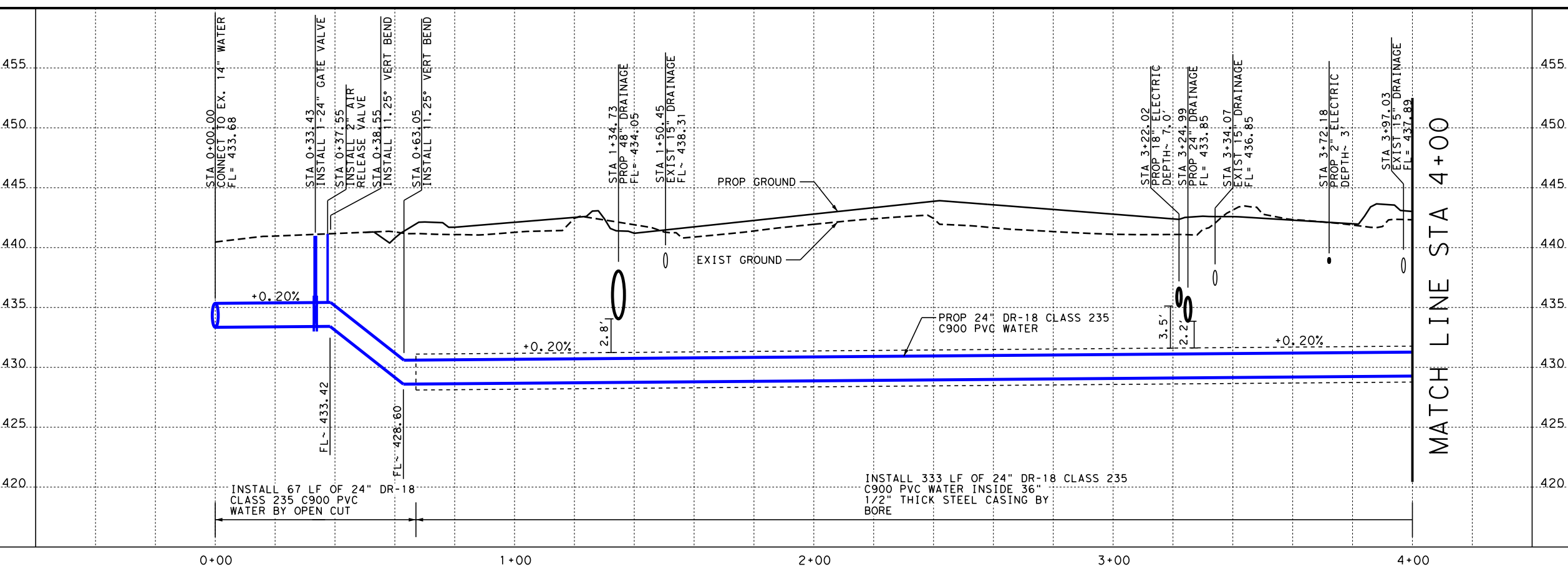


MATCH LINE STA 4+00



NOTES:

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10. SCHEDULE TIE-IN WITH THE CITY OF WACO.



MATCH LINE STA 4+00

NO.	DATE	REVISION	APPROVED

07/17/2024

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Farmers Branch, Texas 75234
Firm Registration No. F-782

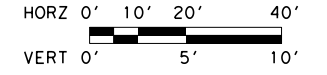
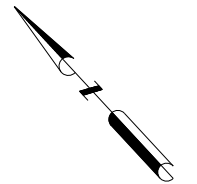
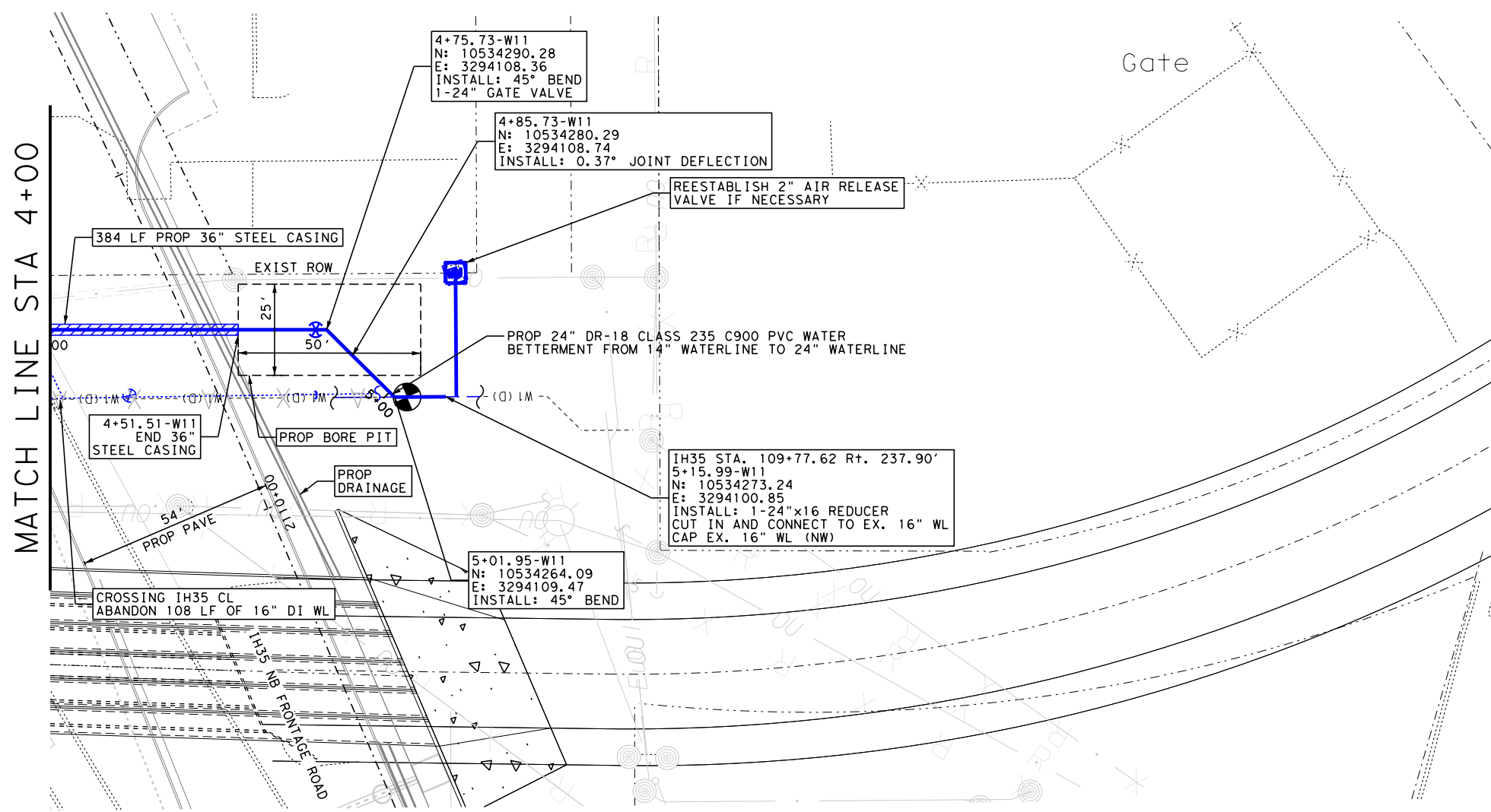
IH 35 FROM S LP 340 TO 12TH ST

WATER LINE "11"
PLAN AND PROFILE
STA 0+00 TO STA 4+00

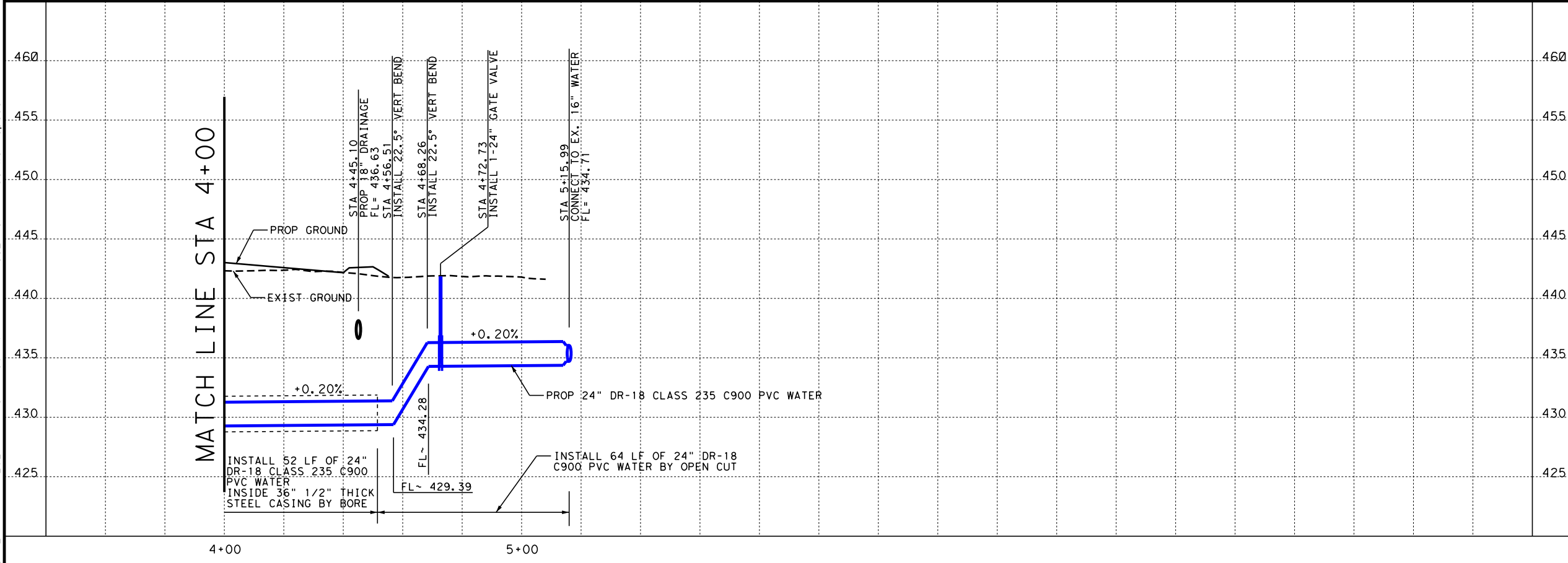
SHEET 1 OF 2

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
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STATE	DIST.	COUNTY
TEXAS	WACO	MCLENNAN
CONT.	SECT.	JOB
0015	01	246, ETC

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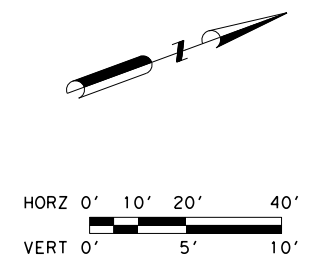
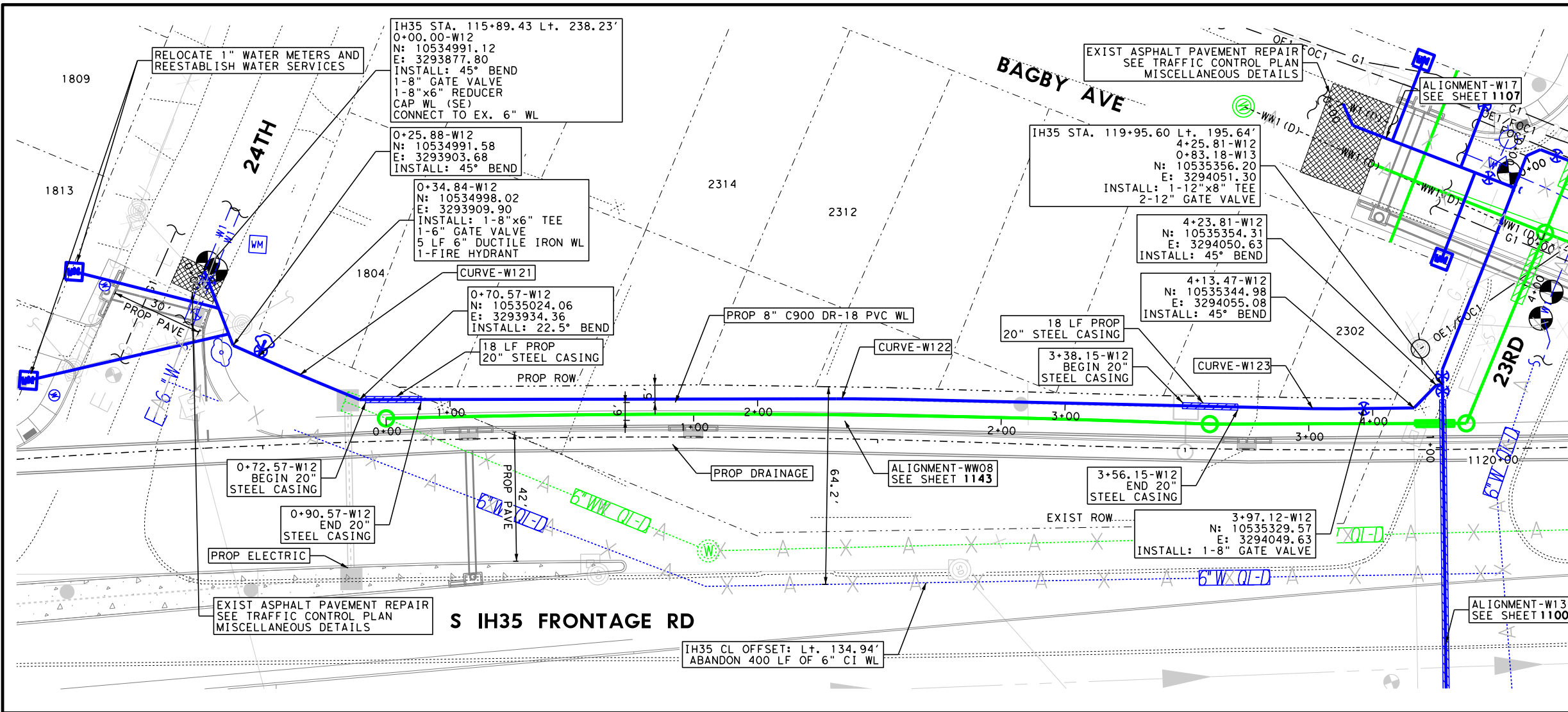


- NOTES:**
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 8. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 9. EXISTING WATER IS IN CONFLICT WITH PROPOSED DRAINAGE PERPENDICULARLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.
 10. SCHEDULE TIE-IN WITH THE CITY OF WACO.

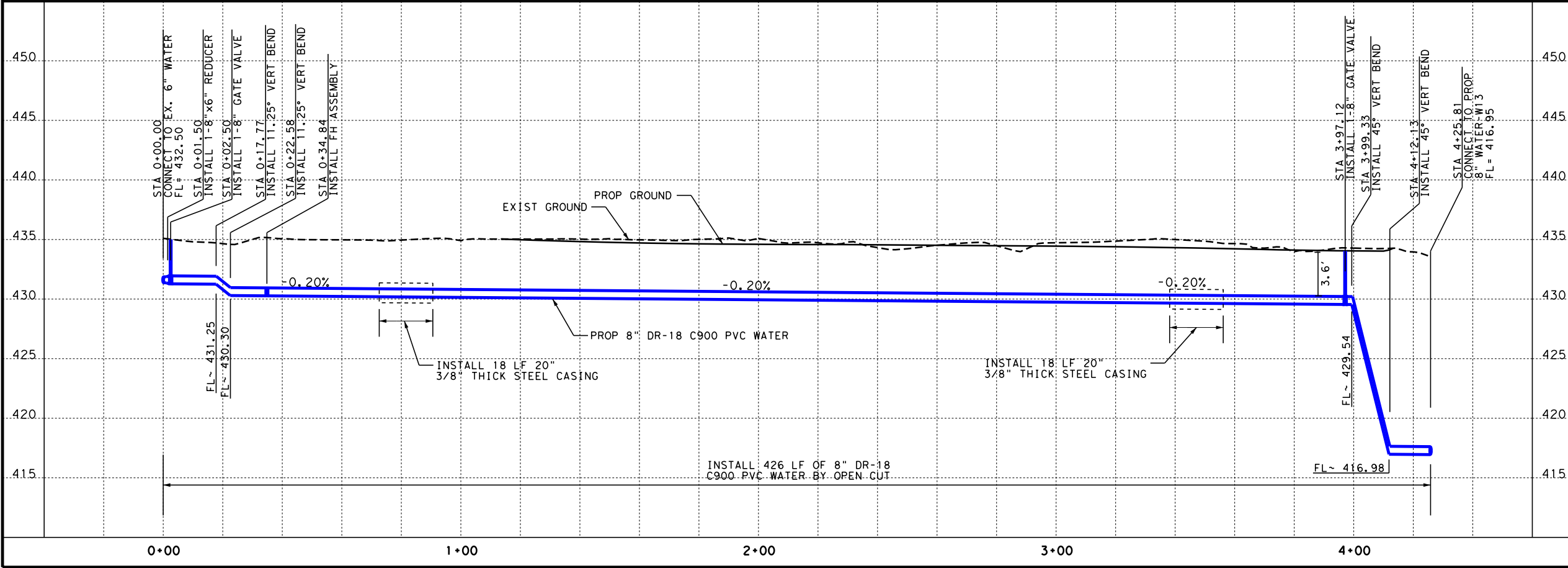


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "11" PLAN AND PROFILE STA 4+00 TO STA 5+16 SHEET 2 OF 2			
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6	SEE TITLE SHEET	1098	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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- NOTES:**
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NO.	DATE	REVISION	APPROVED

07/17/2024

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LINA T. RAMEY & ASSOCIATES, INC.
 3320 Belt Line Rd
 Farmers Branch, Texas 75234
 Firm Registration No. F-782

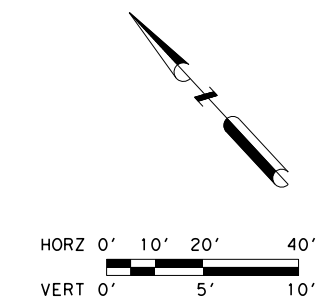
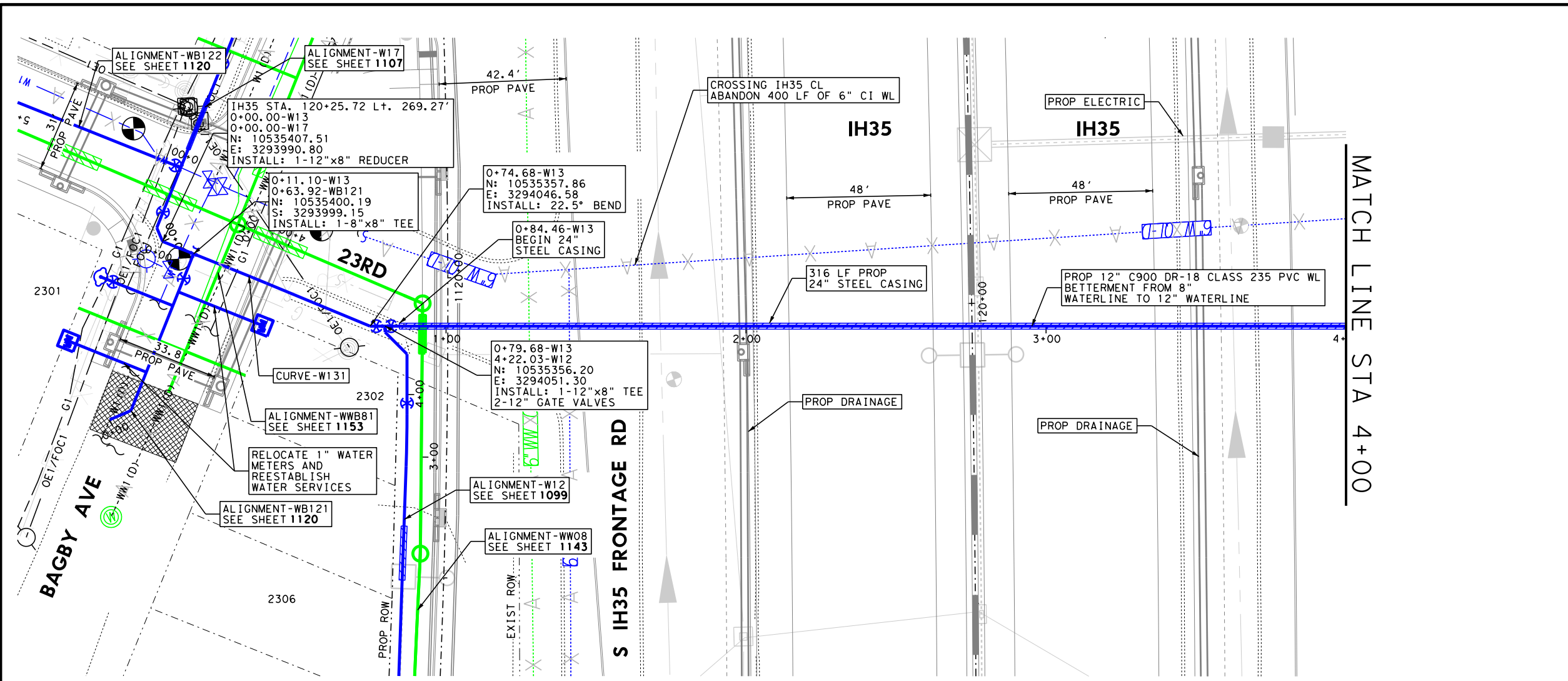
IH 35 FROM S LP 340 TO 12TH ST

 WATER LINE "12"
 PLAN AND PROFILE
 STA 0+00 TO STA 4+26

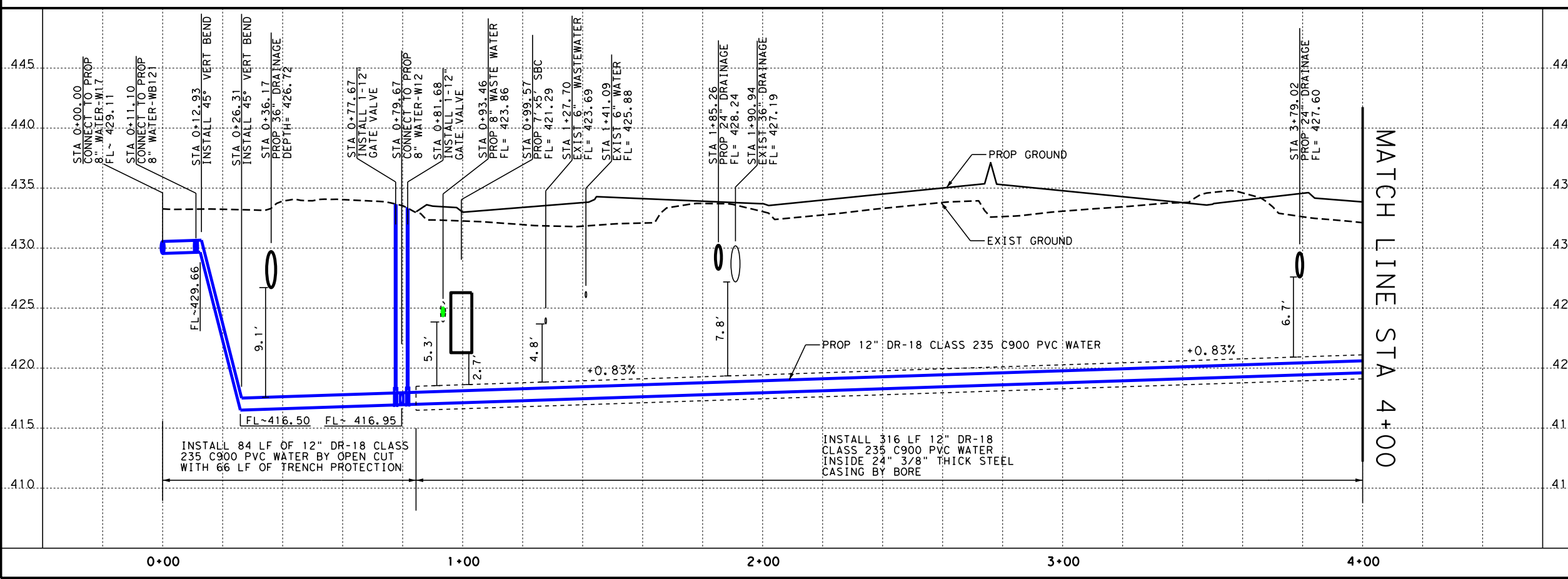
SHEET 1 OF 1

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
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STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
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- NOTES:**
1. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
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NO.	DATE	REVISION	APPROVED

07/17/2024

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LTRA LINA T. RAMEY & ASSOCIATES, INC.
3320 Belt Line Rd
Farmers Branch, Texas 75234
Firm Registration No. F-782

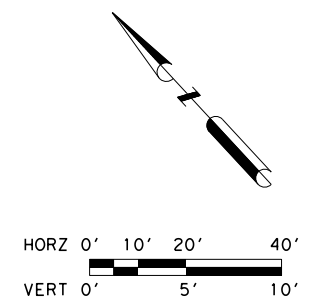
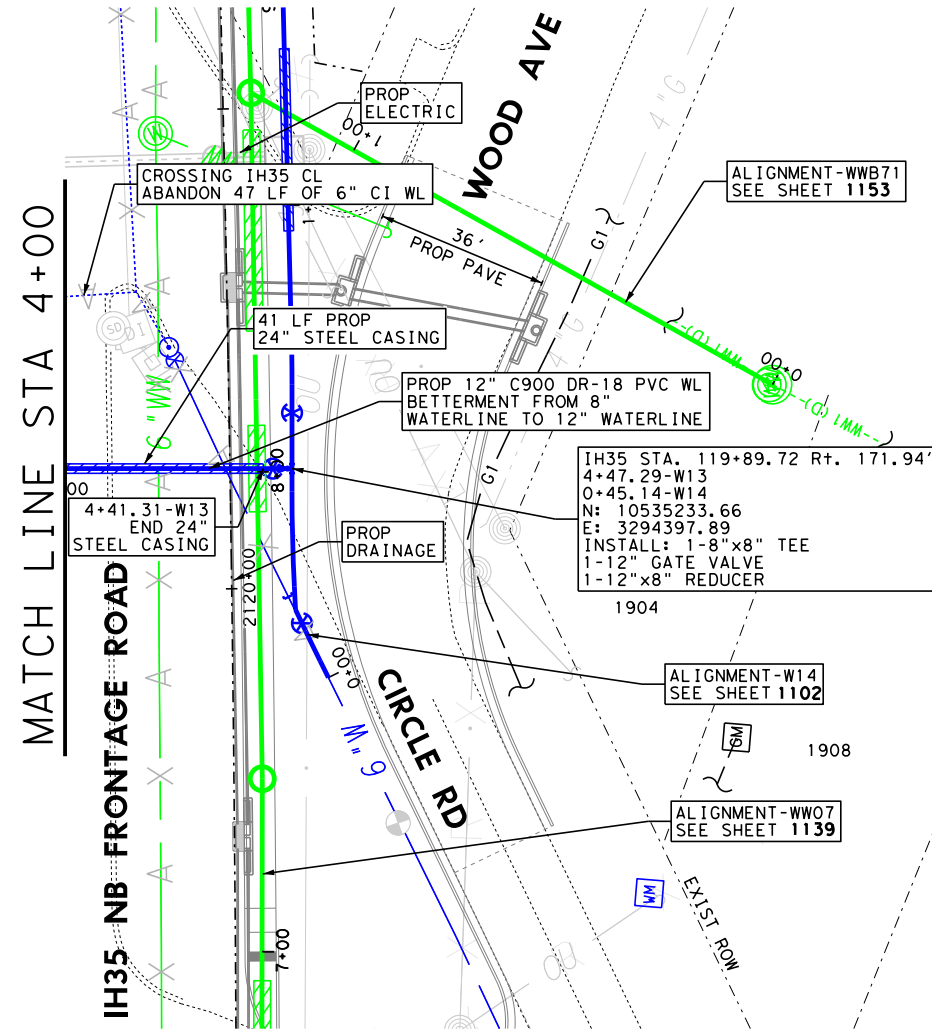
IH 35 FROM S LP 340 TO 12TH ST

WATER LINE "13"
PLAN AND PROFILE
STA 0+00 TO STA 4+37

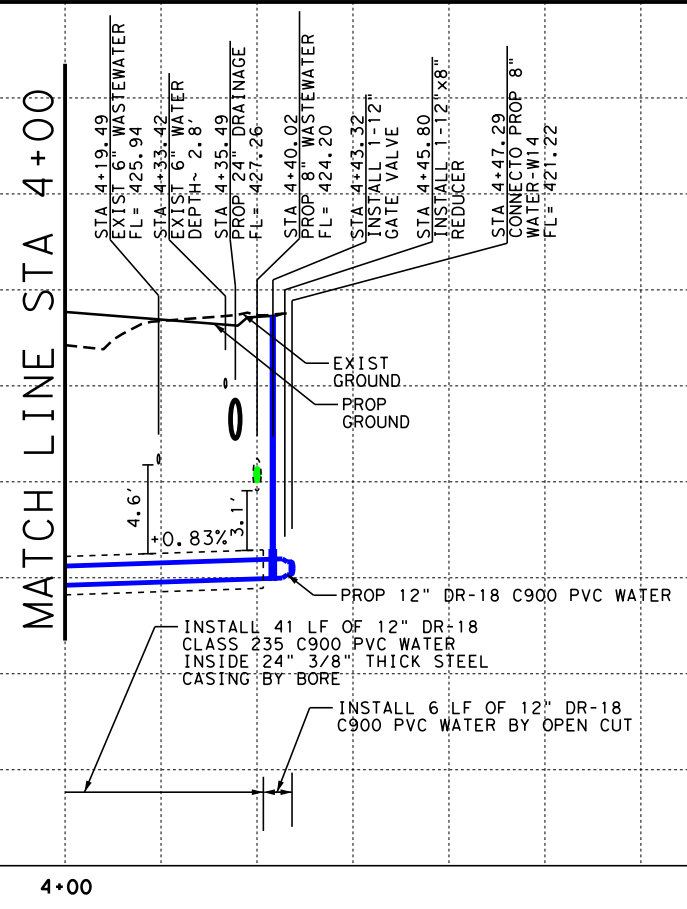
SHEET 1 OF 2

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1100	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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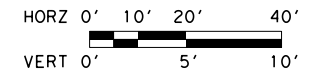
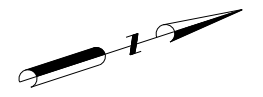


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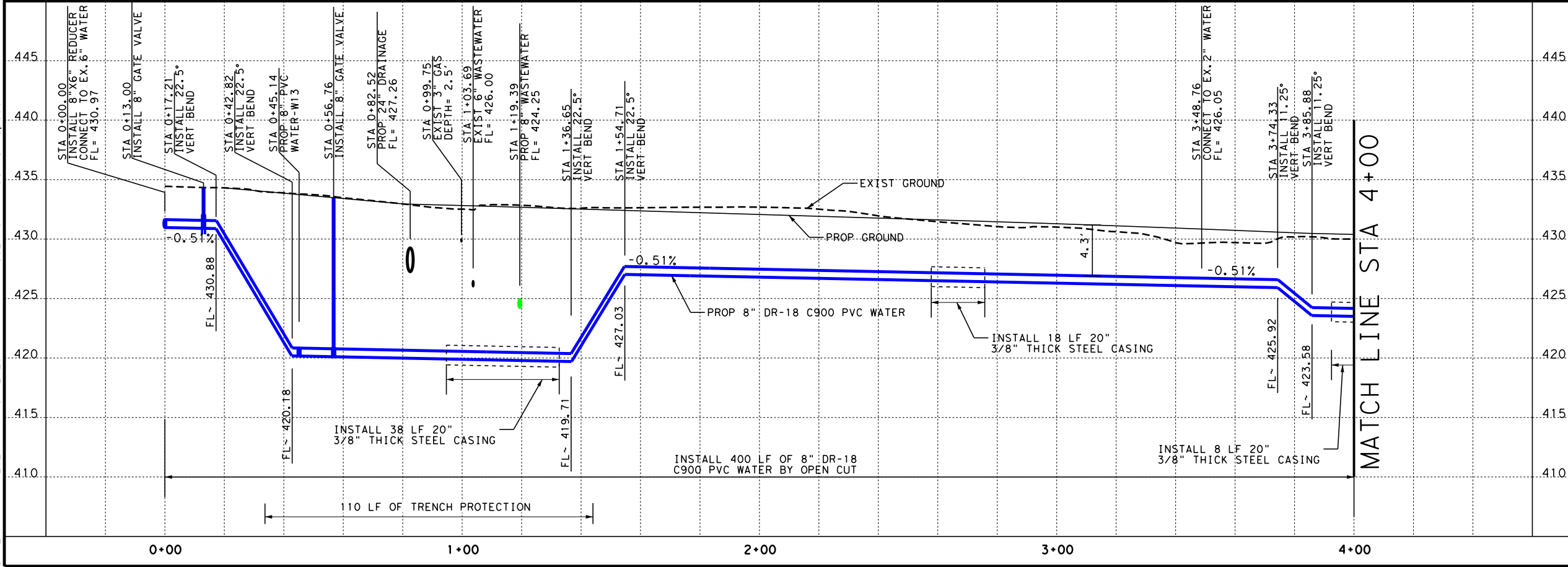
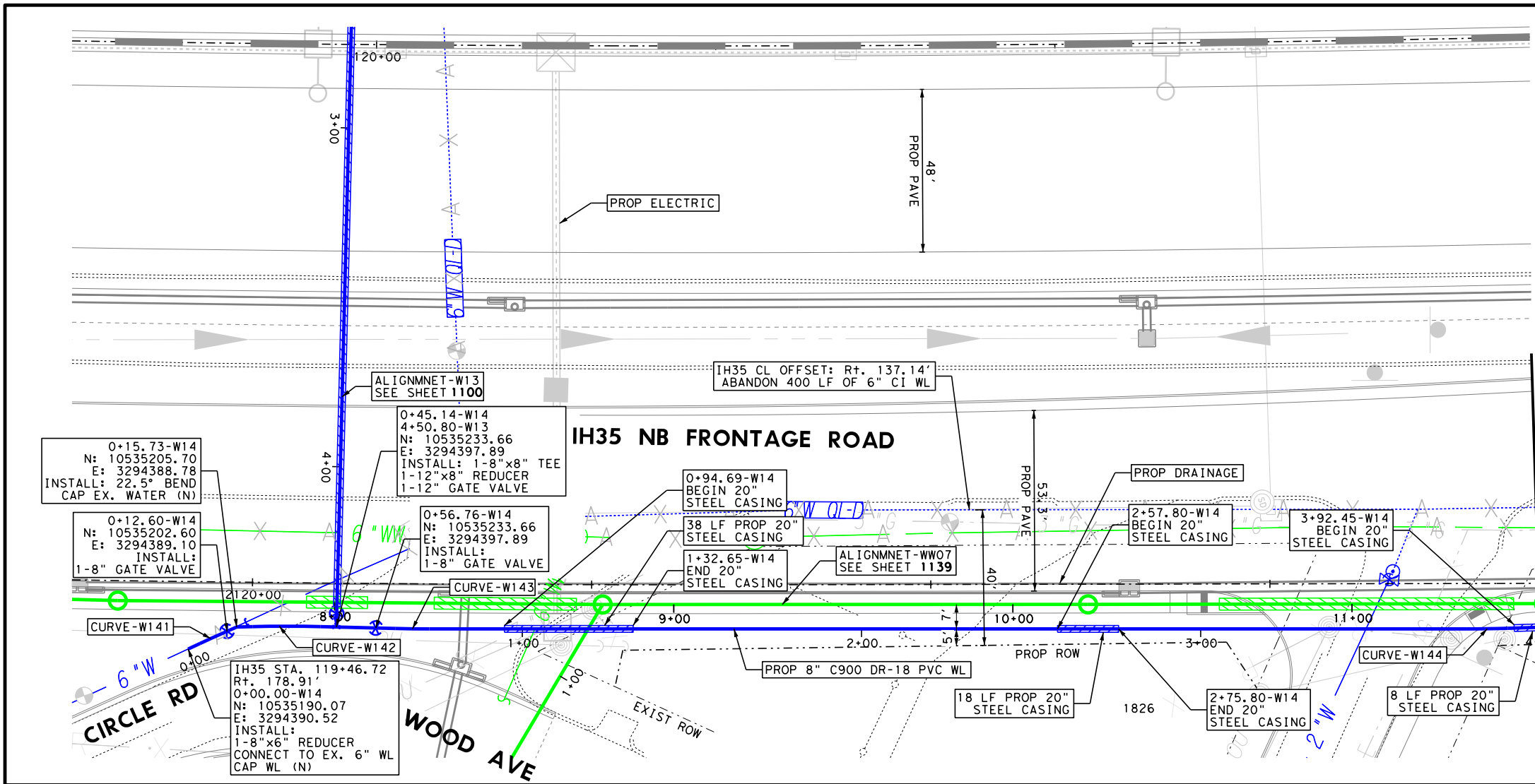
NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "13" PLAN AND PROFILE STA 4+00 TO STA 4+47			
SHEET 2 OF 2			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1101	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

FILE: pwt\pw-int.hntb.org\PWCentralIDiv\Documents\Dallas Projects\66651 Waco IH 35 4C\CAD Sheets\06 - Utilities\IH35*W14*01.dgn
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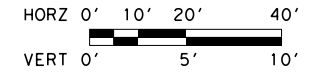
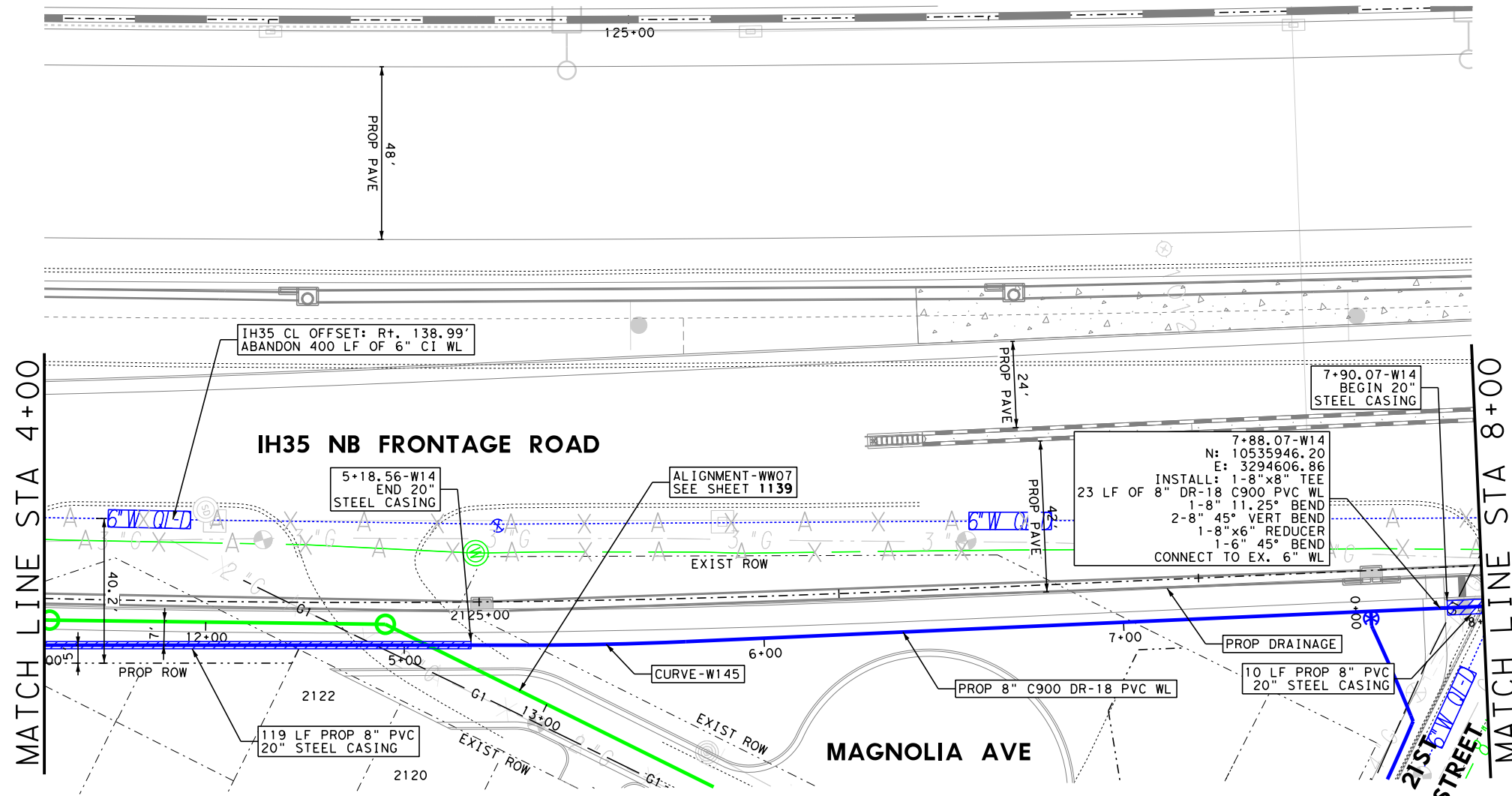
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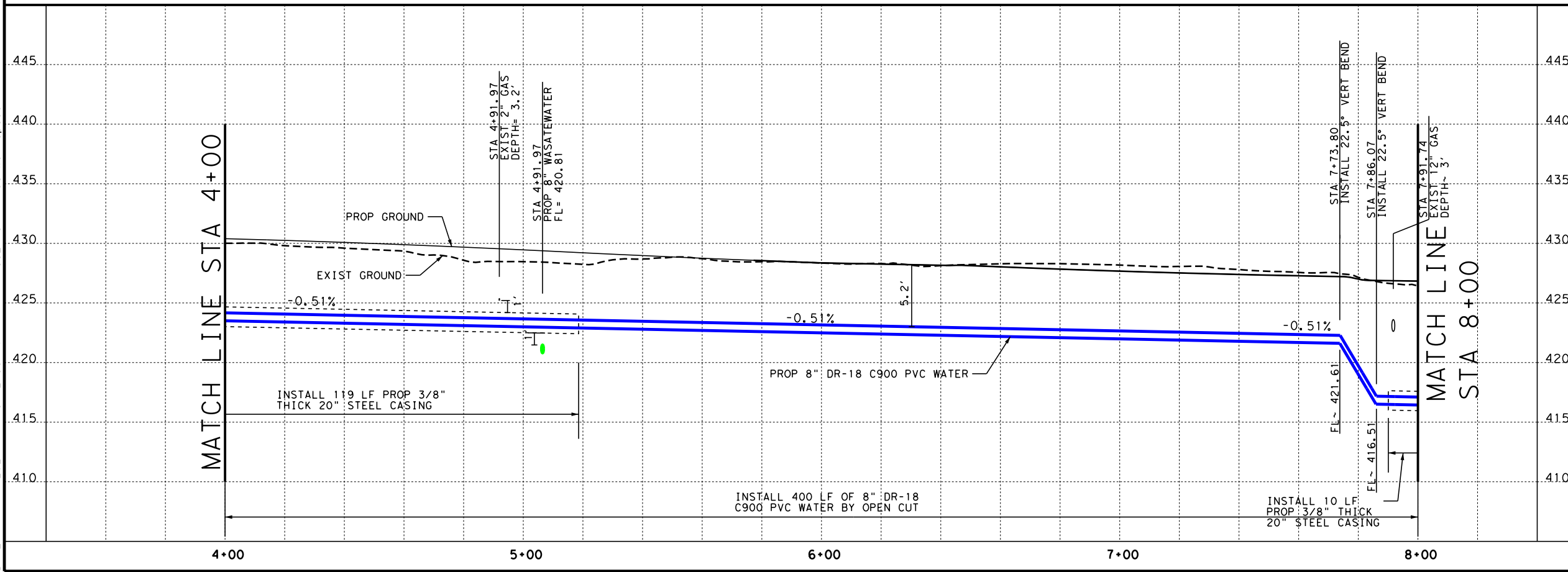
NO.	DATE	REVISION	APPROVED
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FED. RD. DIV. NO.			SHEET NO.
6			1102
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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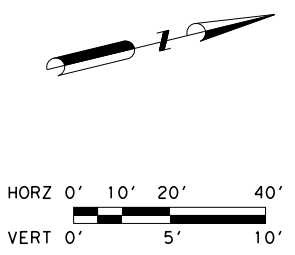
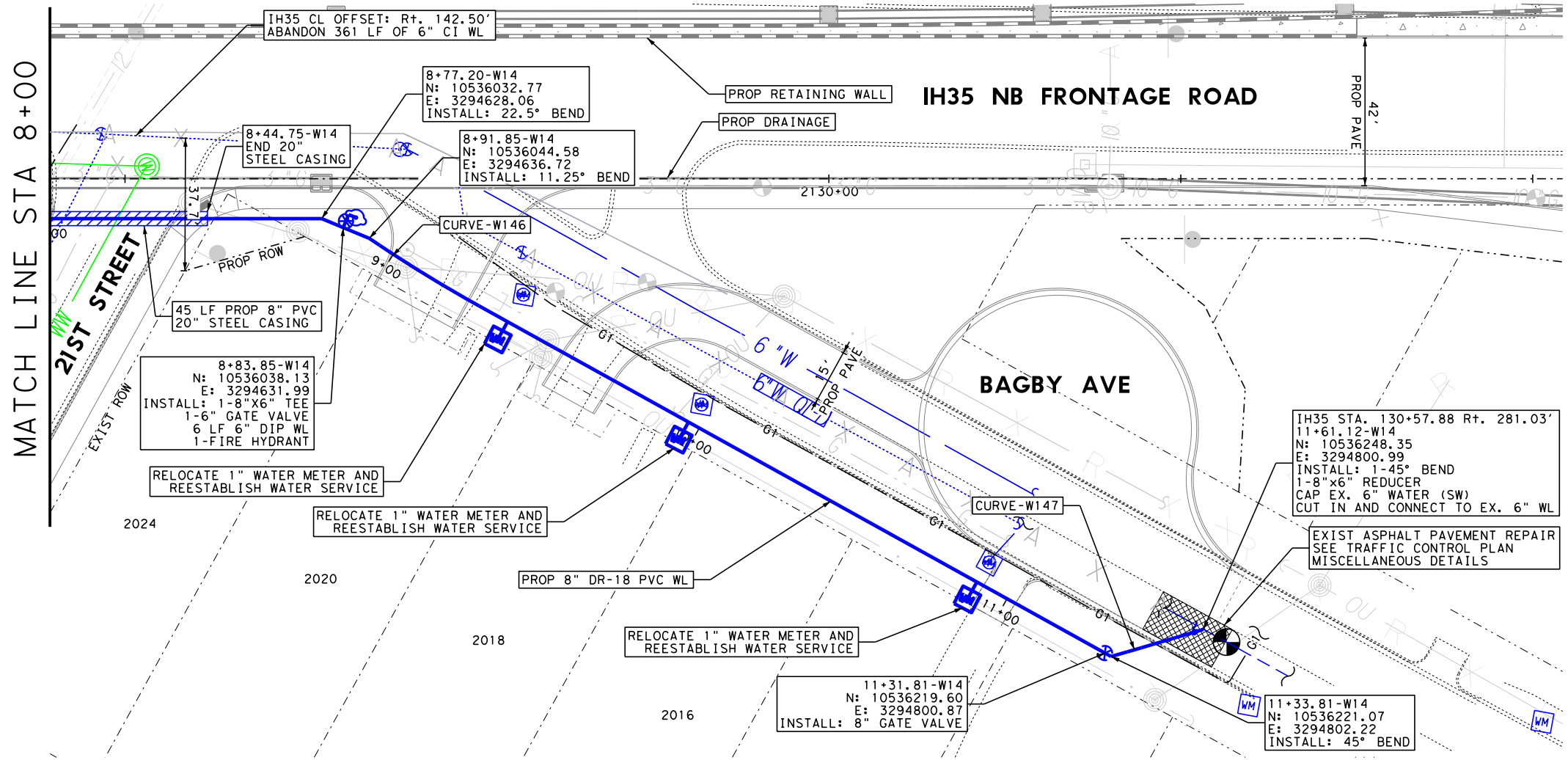
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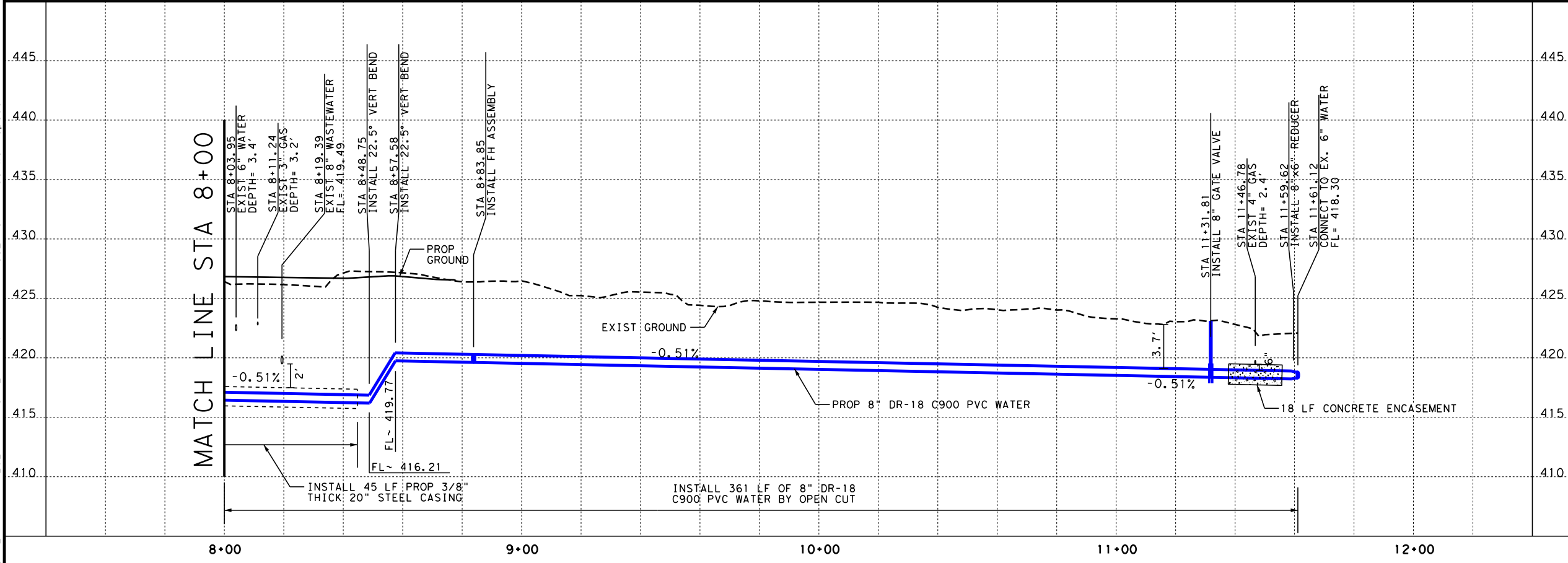


NO.	DATE	REVISION	APPROVED
			07/17/2024
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "14" PLAN AND PROFILE STA 4+00 TO STA 8+00			
SHEET 2 OF 3			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1103	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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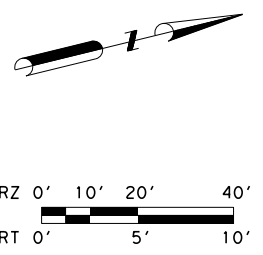
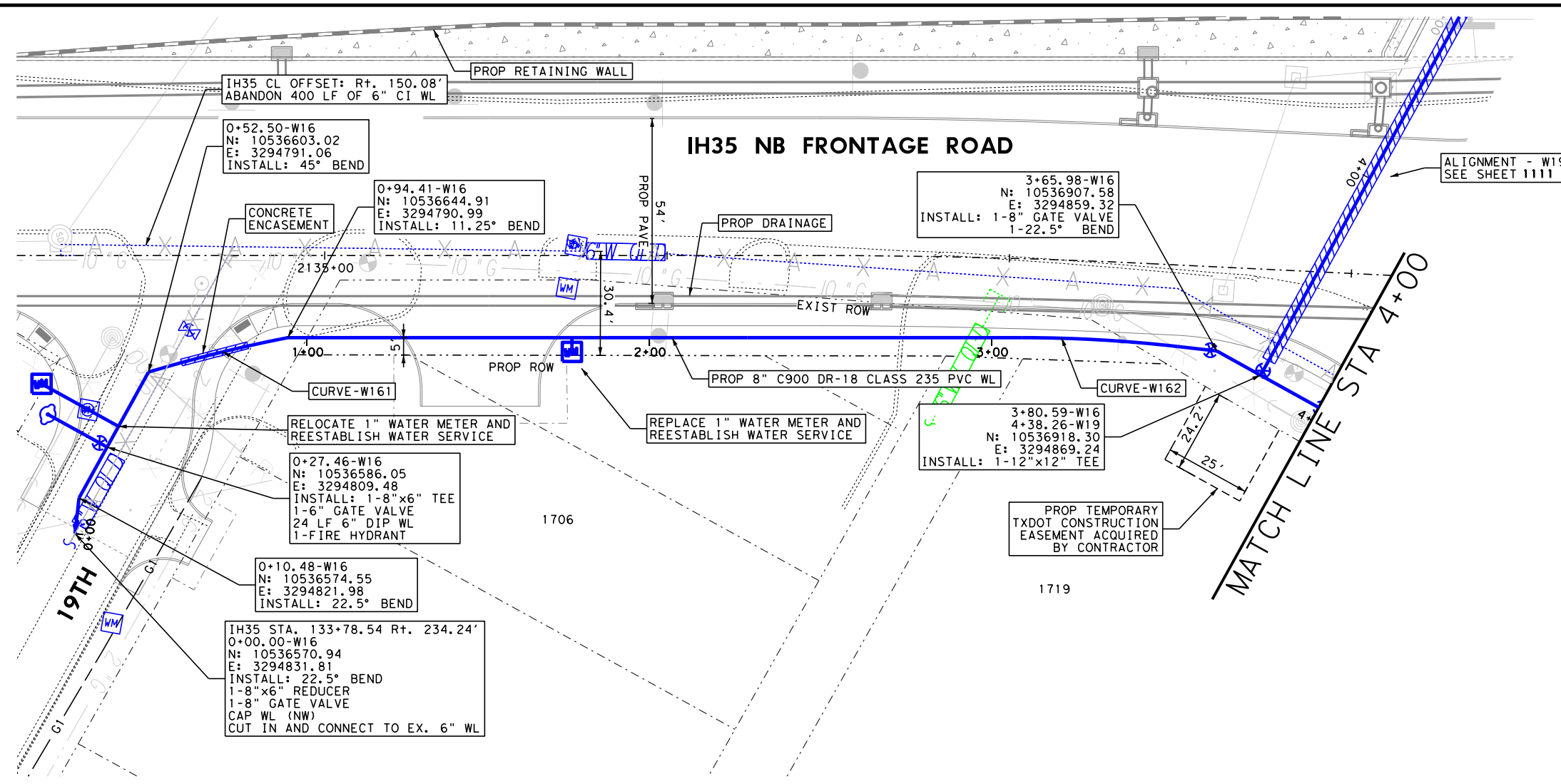


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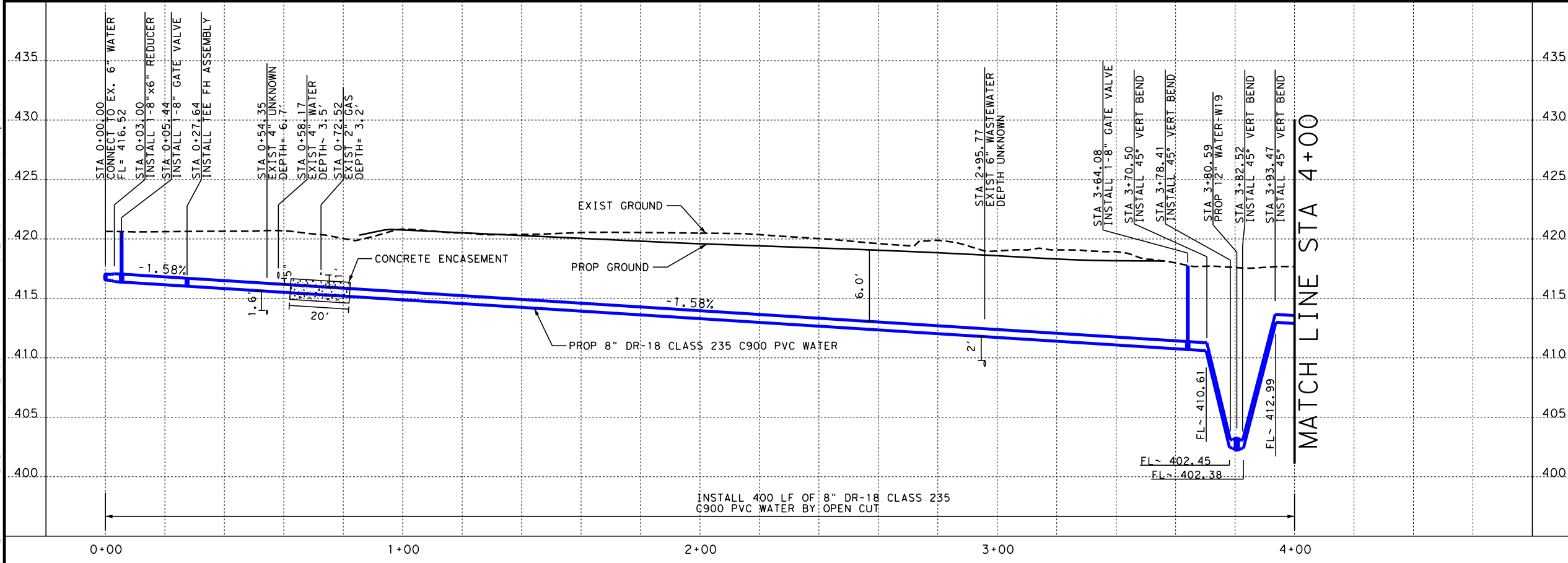


NO.	DATE	REVISION	APPROVED
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SHEET 3 OF 3			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1104	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

FILE: pwt\pw-int.hntb.org\PWCentralIDiv\Documents\Projects\68651 Waco IH 35 4C\CAD\Sheets\06 - Utilities\IH35-W16-01.dgn
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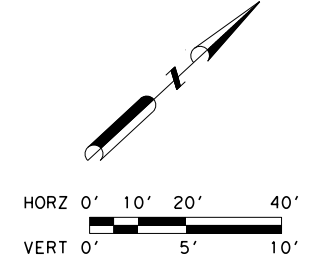
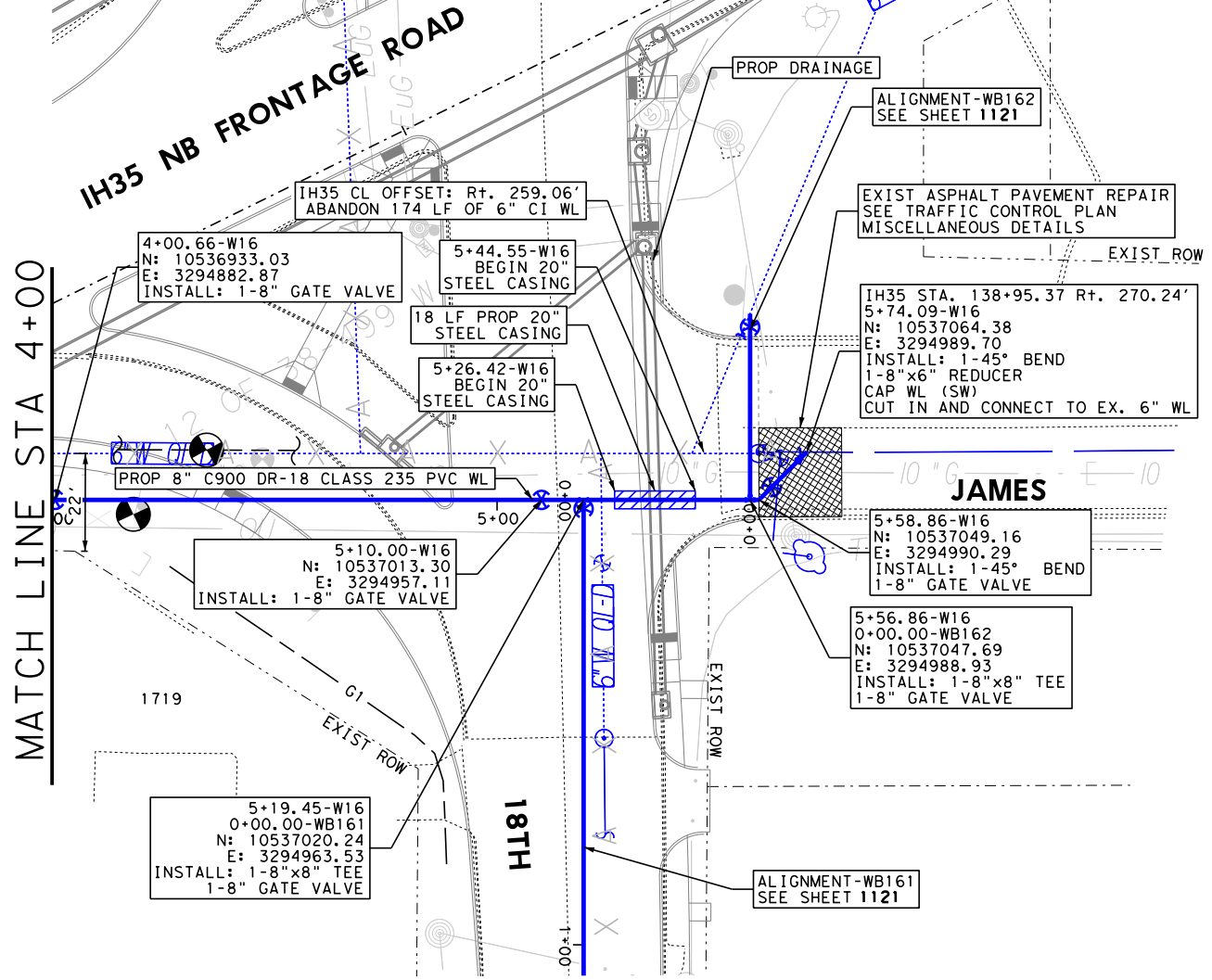


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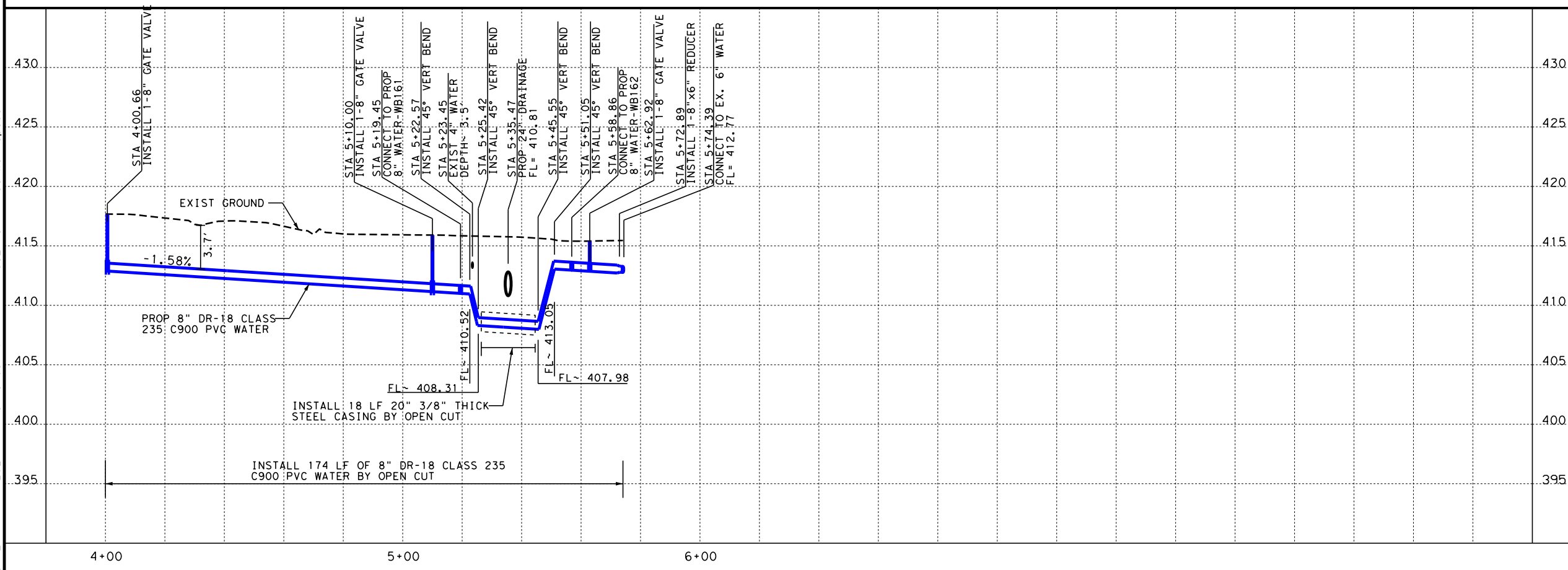


NO.	DATE	REVISION	APPROVED
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FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1105	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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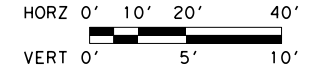
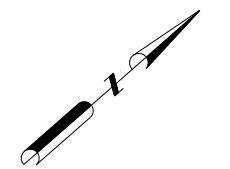
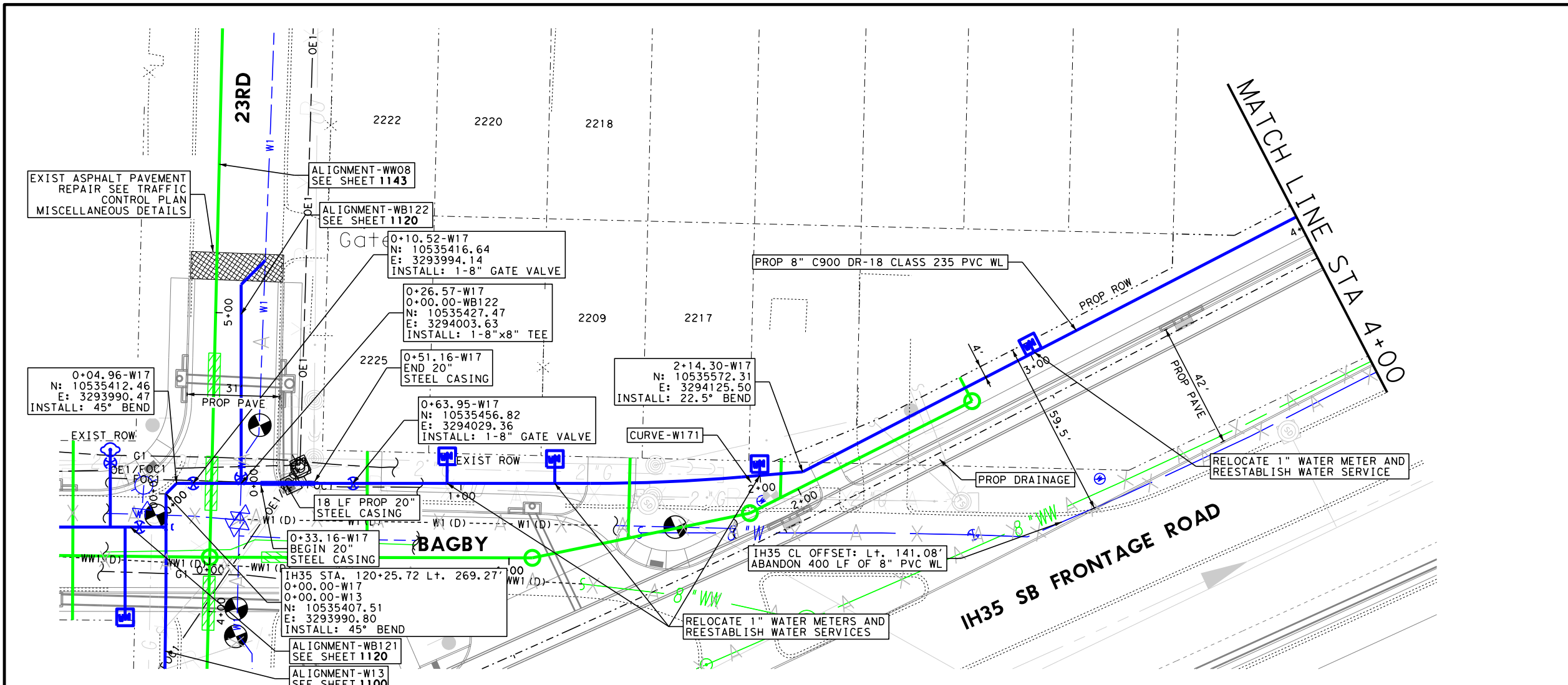


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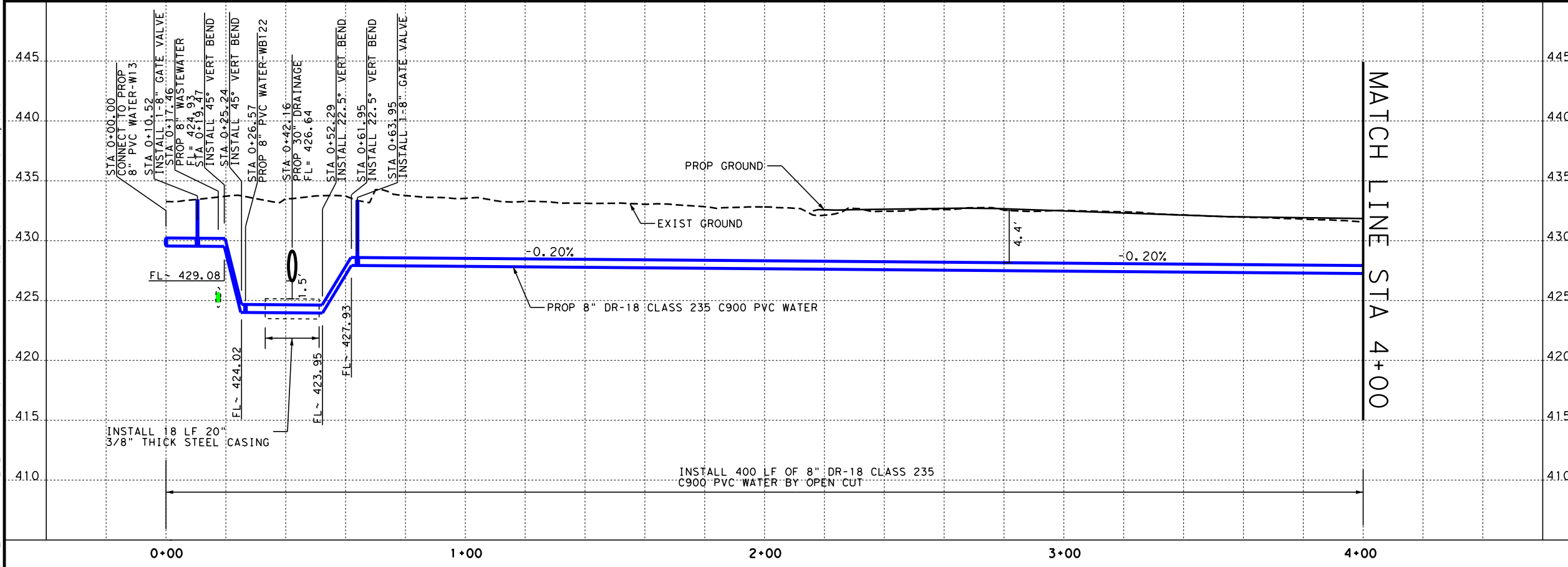


NO.	DATE	REVISION	APPROVED
			07/17/2024
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "16" PLAN AND PROFILE STA 4+00 TO STA 5+74			
SHEET 2 OF 2			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1106	
STATE	DIST.	COUNTY	
TEXAS	WACO	McLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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07/17/2024

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 Farmers Branch, Texas 75234
 Firm Registration No. F-782

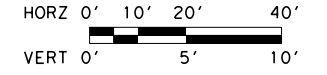
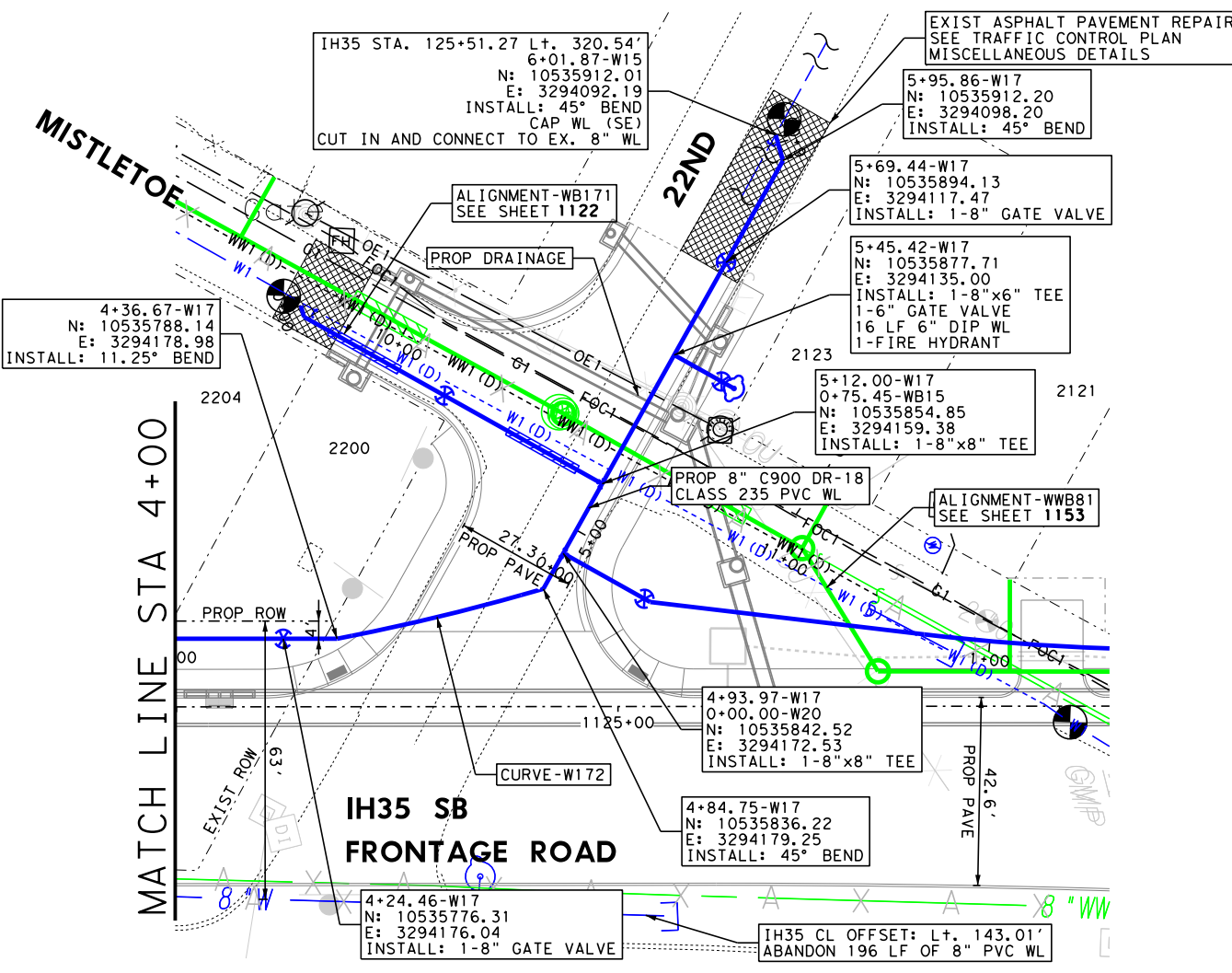
IH 35 FROM S LP 340 TO 12TH ST

WATER LINE "17"
 PLAN AND PROFILE
 STA 0+00 TO STA 4+00

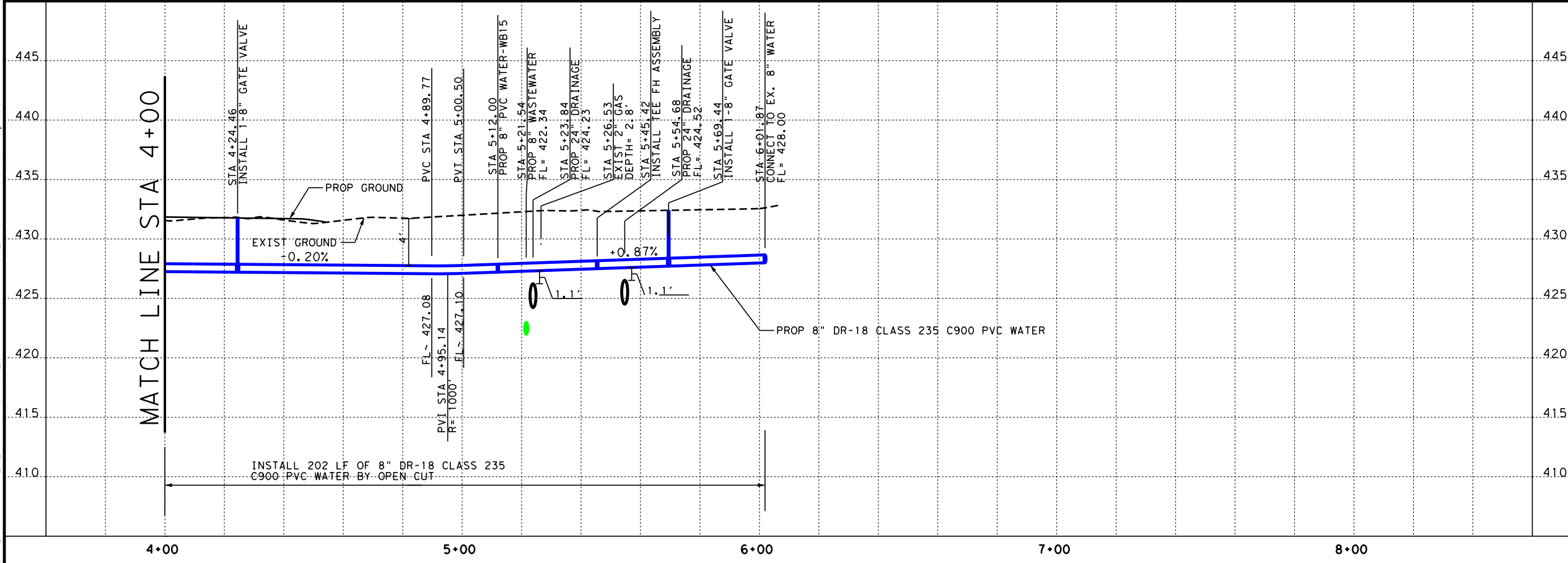
SHEET 1 OF 2

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
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STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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NO.	DATE	REVISION	APPROVED

07/17/2024

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3320 Belt Line Rd
Farmers Branch, Texas 75234
Firm Registration No. F-782

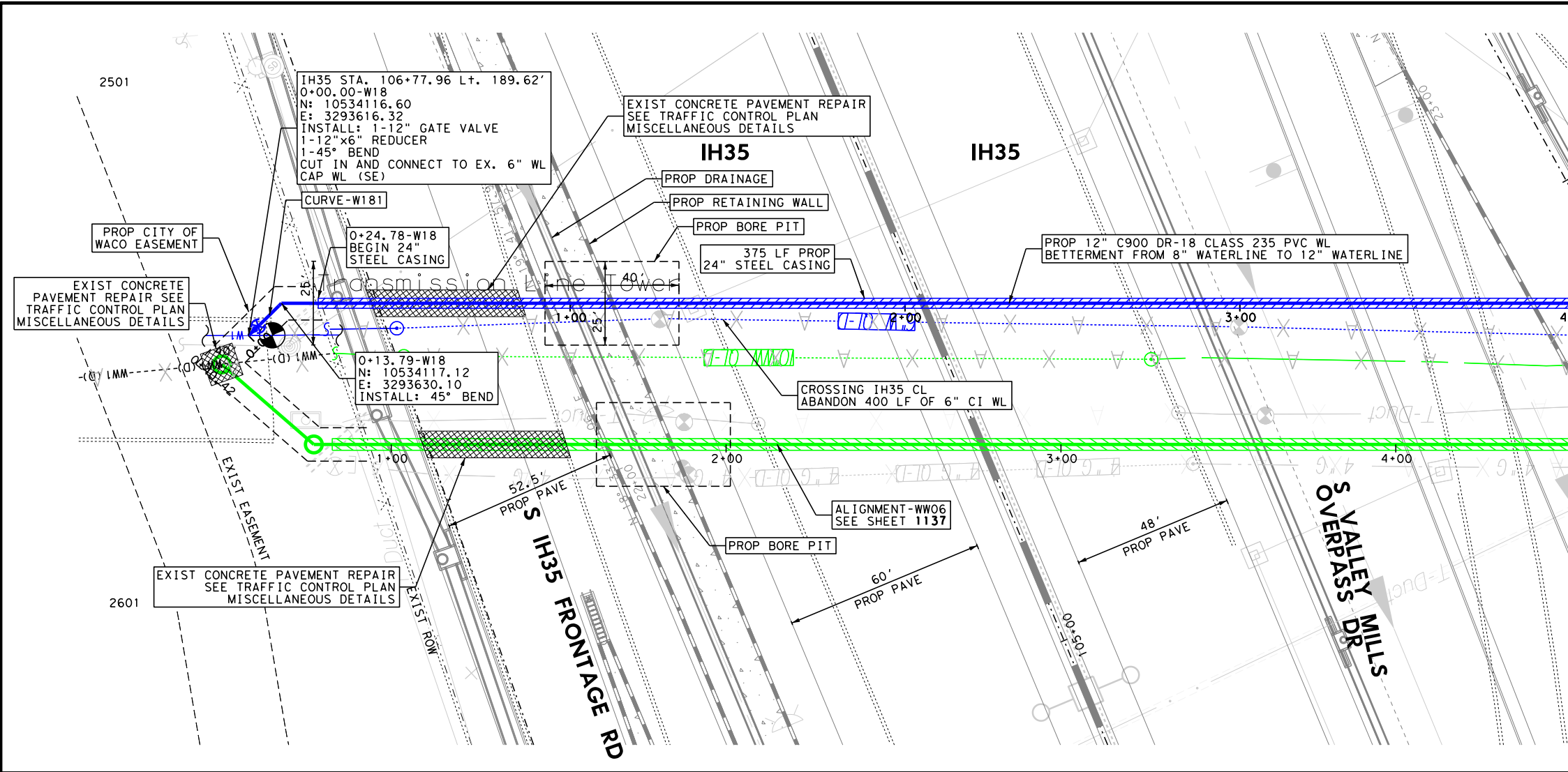
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WATER LINE "17"
PLAN AND PROFILE
STA 4+00 TO STA 6+02

SHEET 2 OF 2

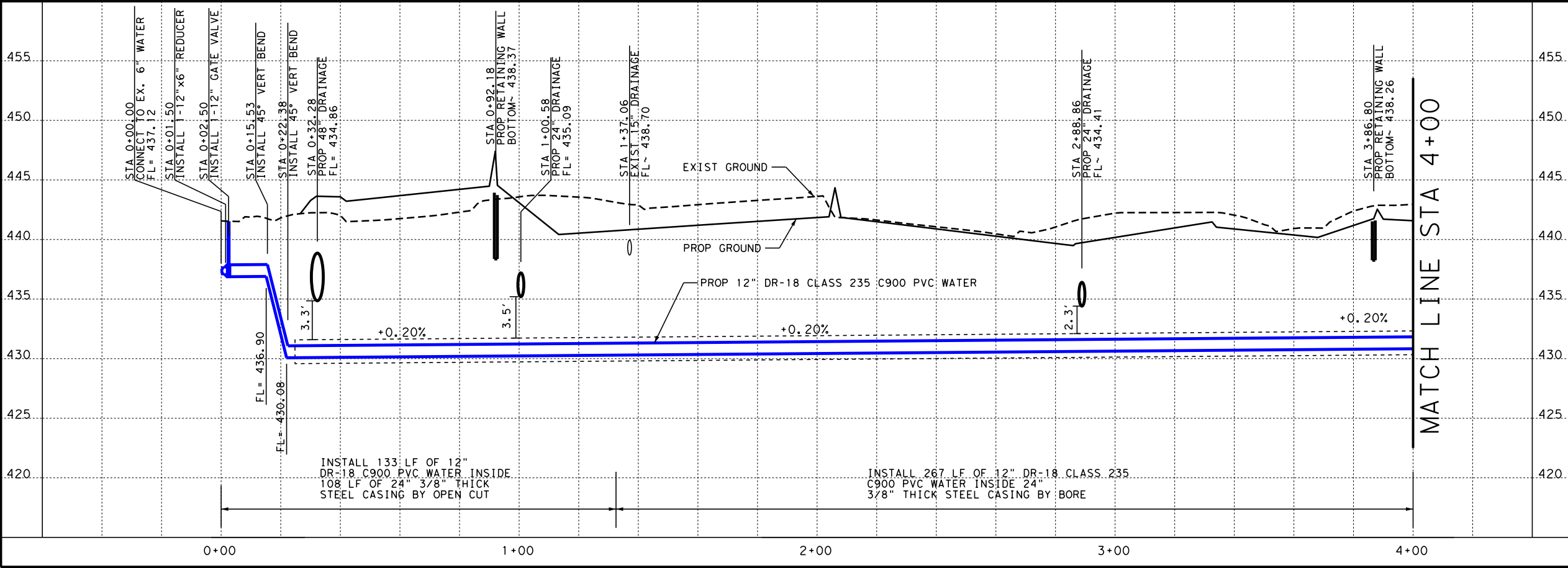
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STATE	DIST.	COUNTY
TEXAS	WACO	MCLENNAN
CONT.	SECT.	JOB
0015	01	246, ETC
		HIGHWAY NO.
		IH 35

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MATCH LINE STA 4+00

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MATCH LINE STA 4+00

NO.	DATE	REVISION	APPROVED

MATT WOLFE
 136362
 07/17/2024

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 3320 Belt Line Rd
 Farmers Branch, Texas 75234
 Firm Registration No. F-782

IH 35 FROM S LP 340 TO 12TH ST

 WATER LINE "18"
 PLAN AND PROFILE
 STA 0+00 TO STA 4+00

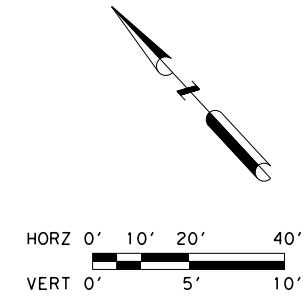
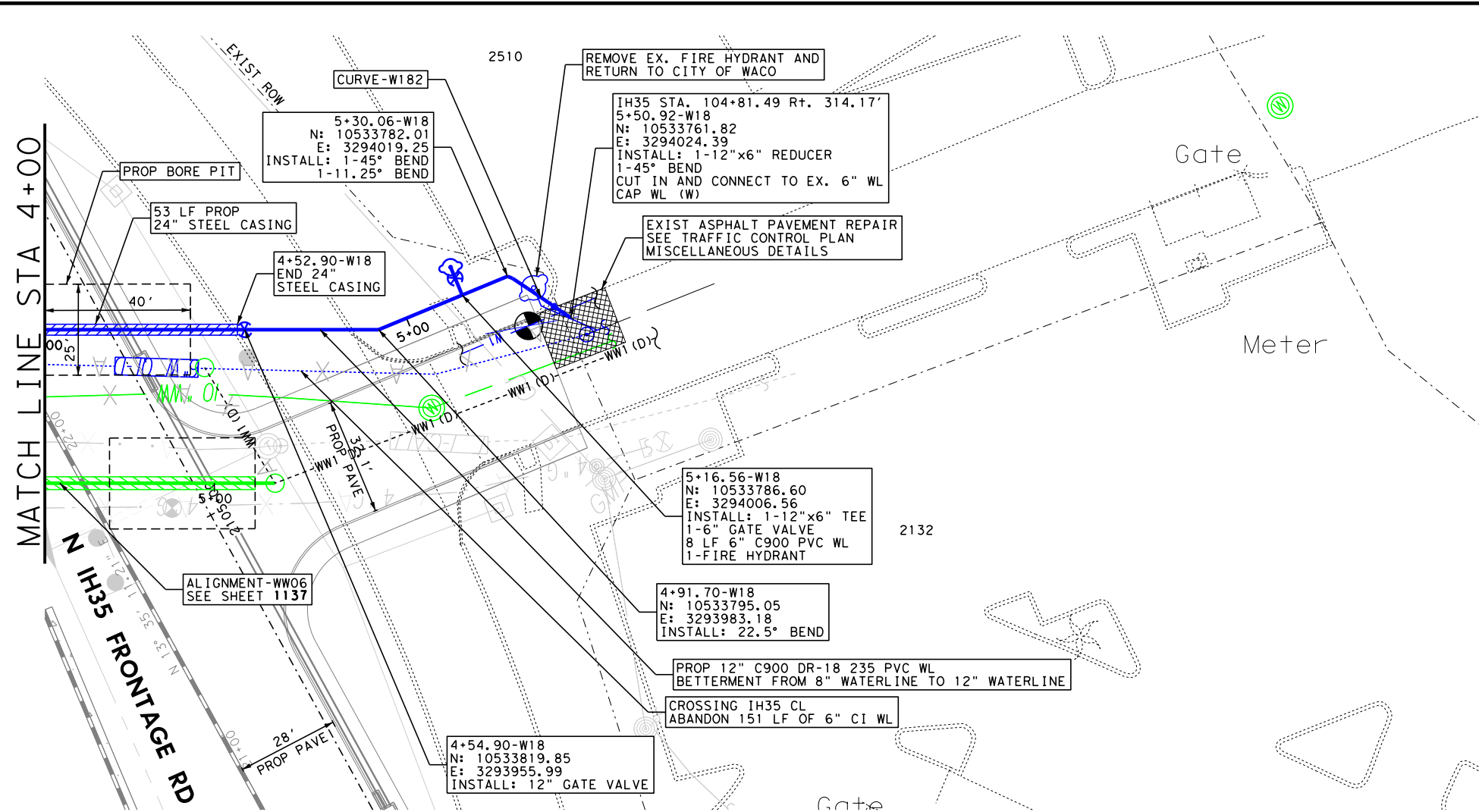
SHEET 1 OF 2

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
6	SEE TITLE SHEET	1109

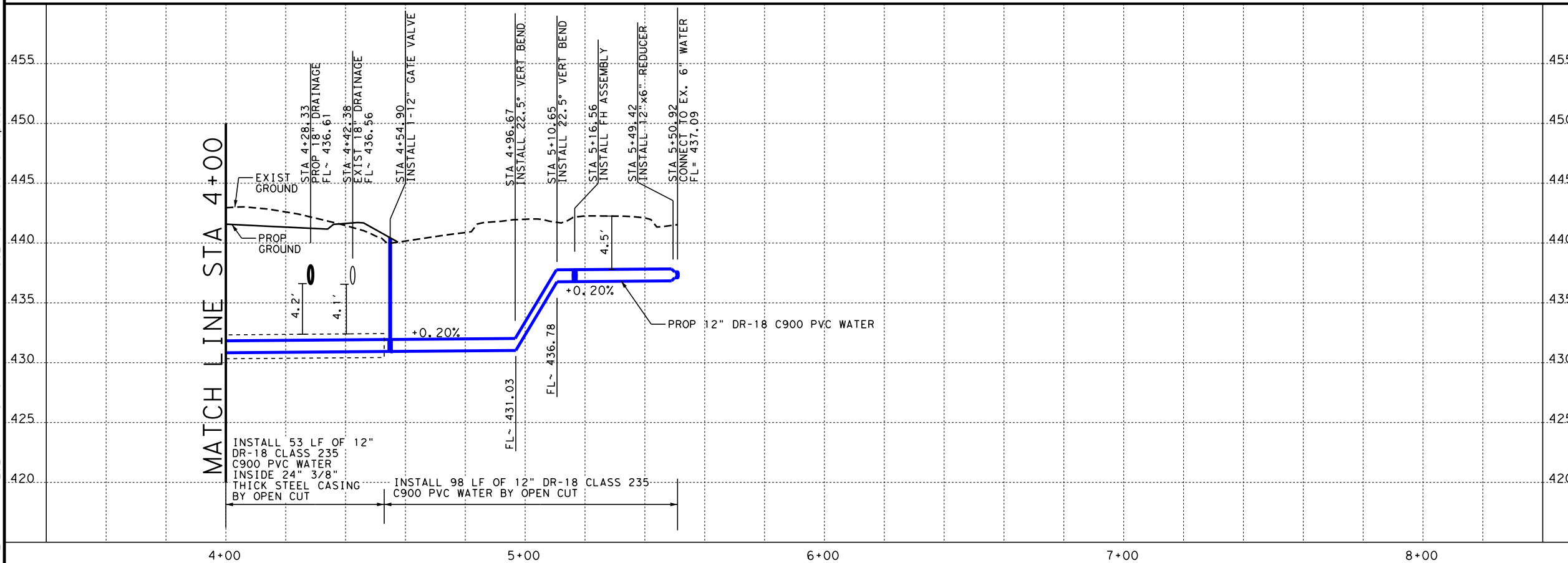
STATE	DIST.	COUNTY
TEXAS	WACO	MCLENNAN

CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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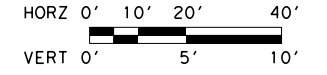
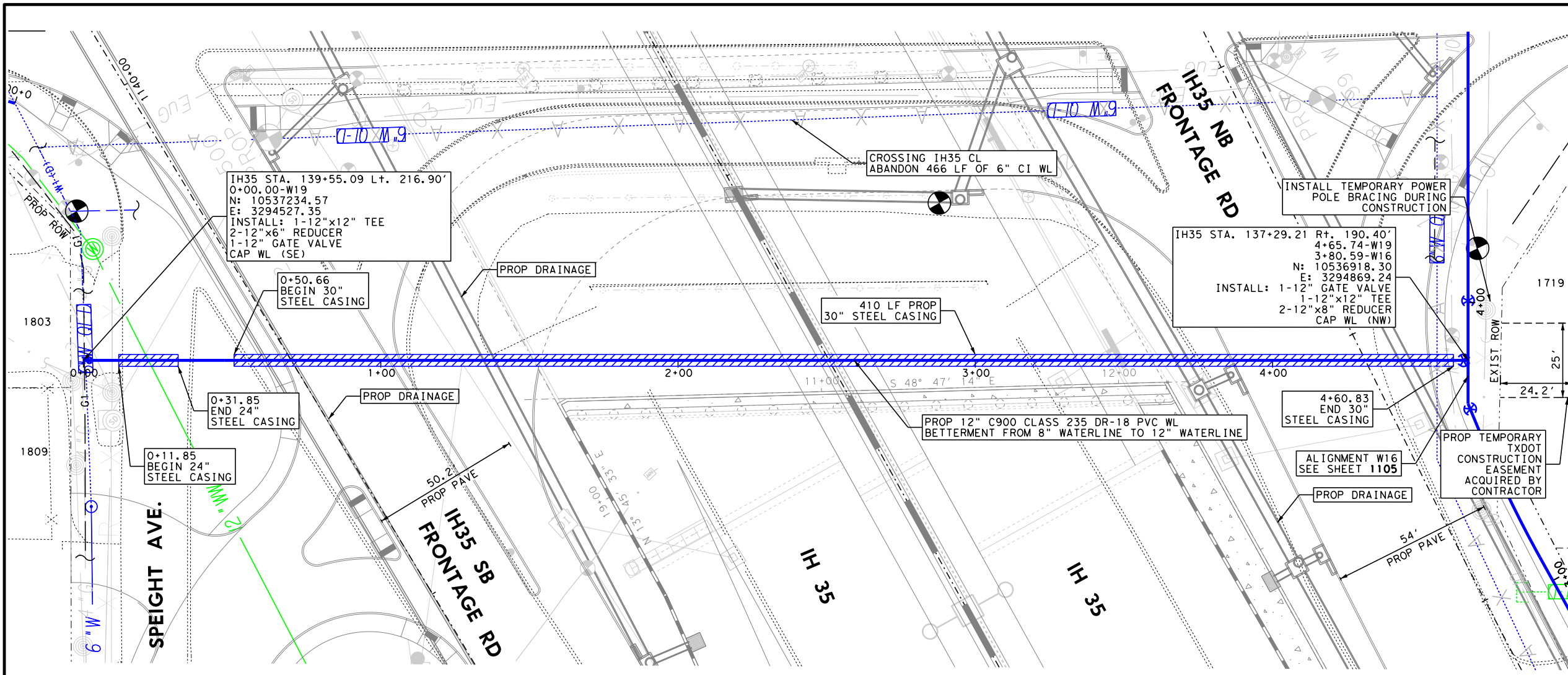


- NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 - SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 - WATER SERVICE INTERRUPTIONS SHALL BE LESS THAN 8 HOURS AND TEMPORARY SERVICES SHALL BE PROVIDED IF NEEDED. 48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WACO PRIOR TO ANY SHUTDOWN.
 - WATERLINE SEGMENTS SHALL BE CENTERED OVER WASTEWATER CROSSING PER TCEQ.
 - EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 - ALL SERVICES SHALL BE REESTABLISHED.
 - A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
 - ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 - EXISTING WATER IS IN CONFLICT WITH PROPOSED DRAINAGE PERPENDICULARLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.

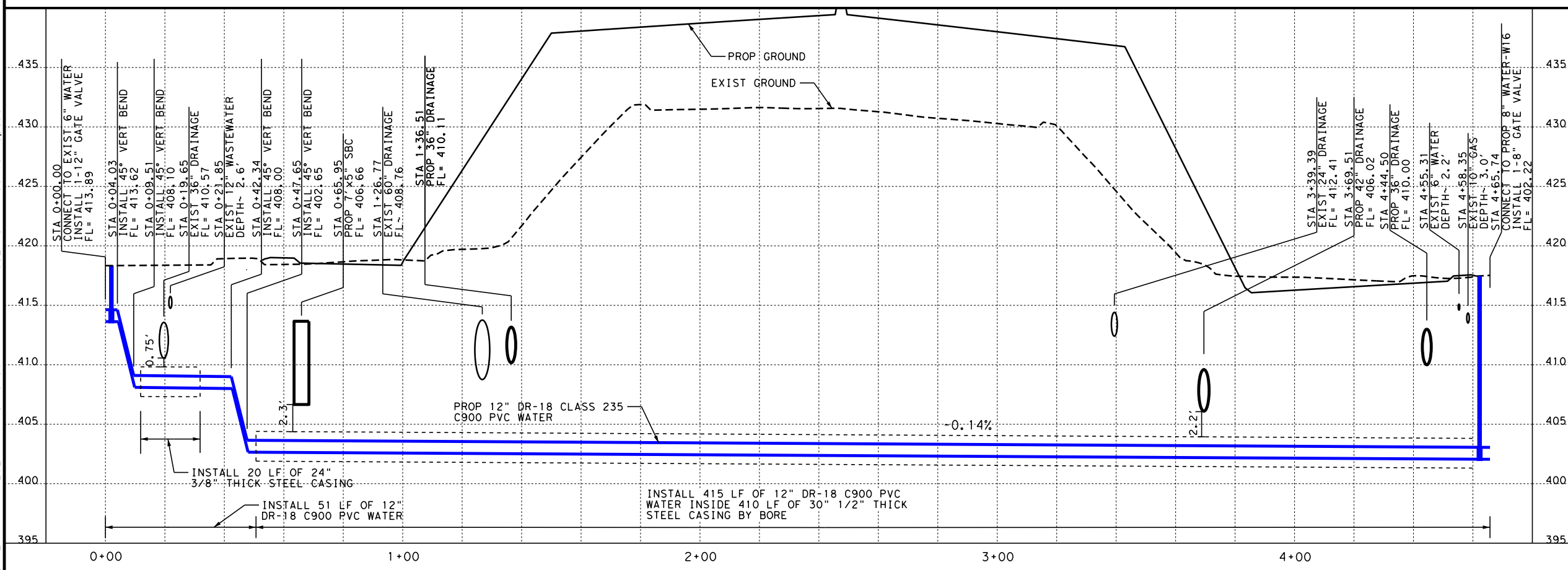


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "18" PLAN AND PROFILE STA 4+00 TO STA 5+51 SHEET 2 OF 2			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1110	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

FILE: pwt\pw-int.hntb.org\PWCentralIDiv\Documents\Projects\68651 Waco IH 35 4C\CAD\Sheets\06 - Utilities\IH35-W19-01.dgn
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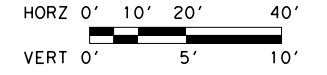
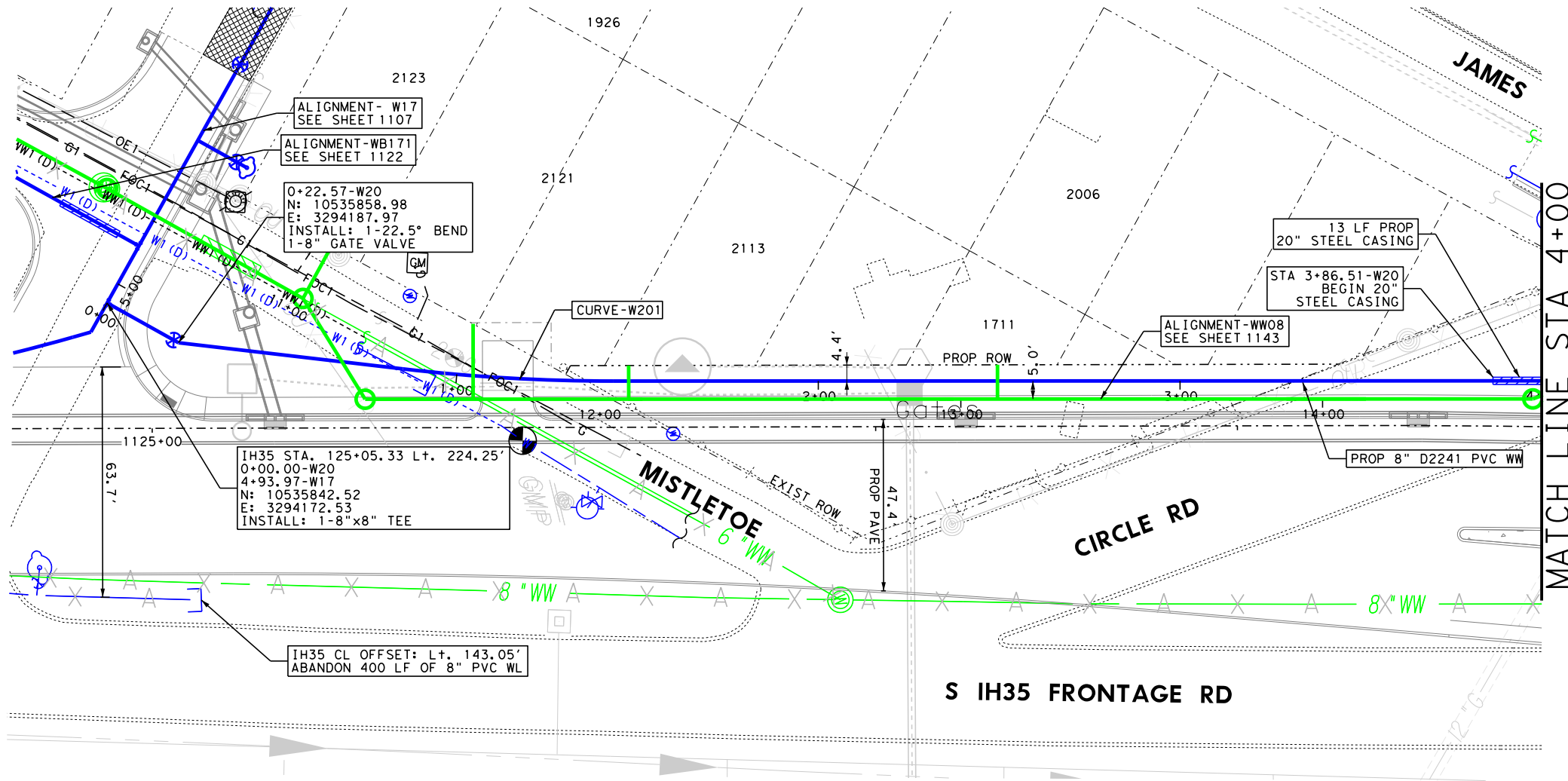


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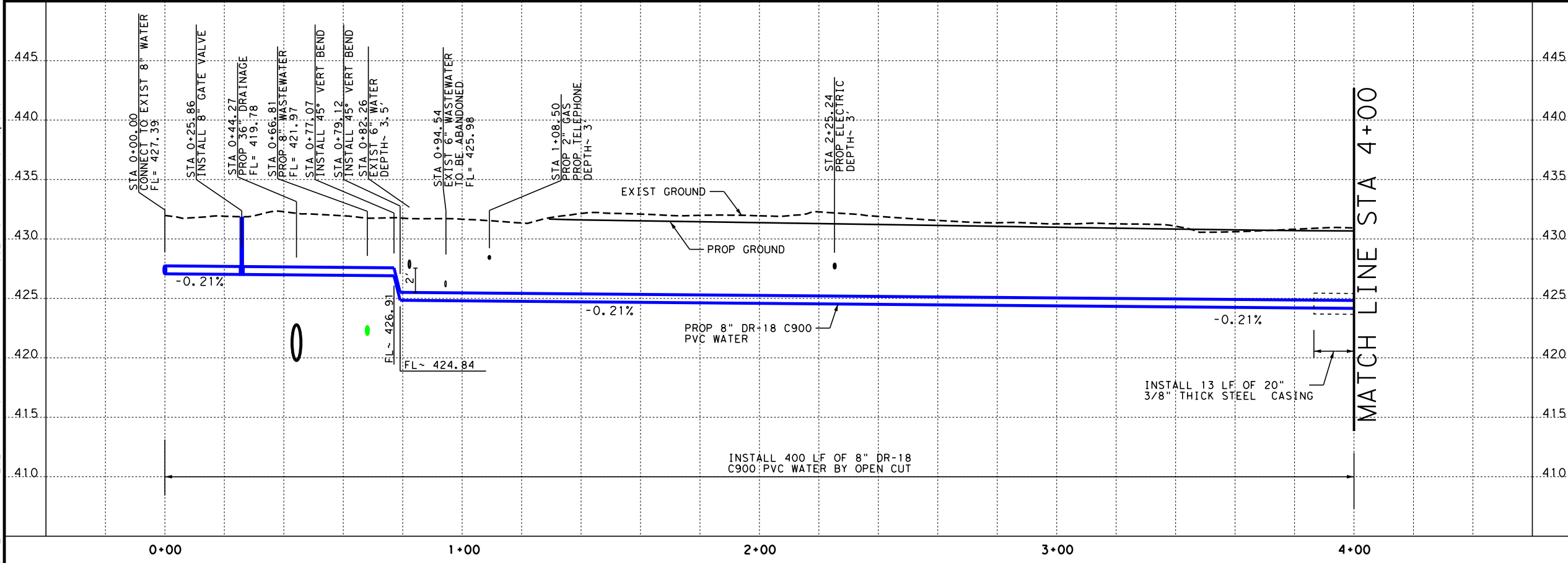


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "19" PLAN AND PROFILE STA 0+00 TO STA 4+66			
SHEET 1 OF 1			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1111	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

FILE: pwt\pw-int.hntb.org\PWCentralIDiv\Documents\68651 Waco IH 35 4C\CAD\Sheets\06 - Utilities\IH35*W20*01.dgn
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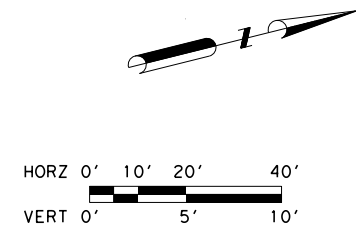
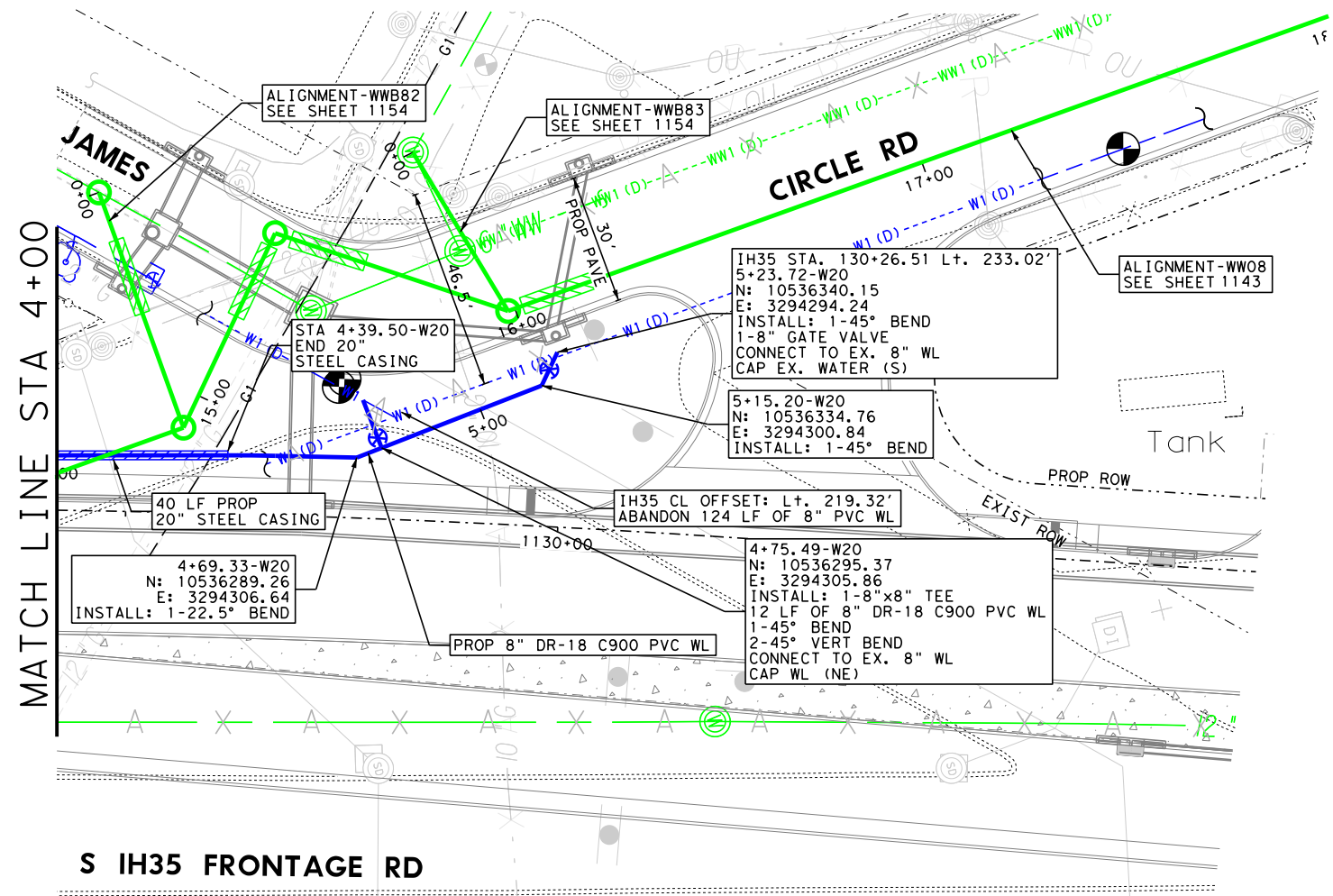


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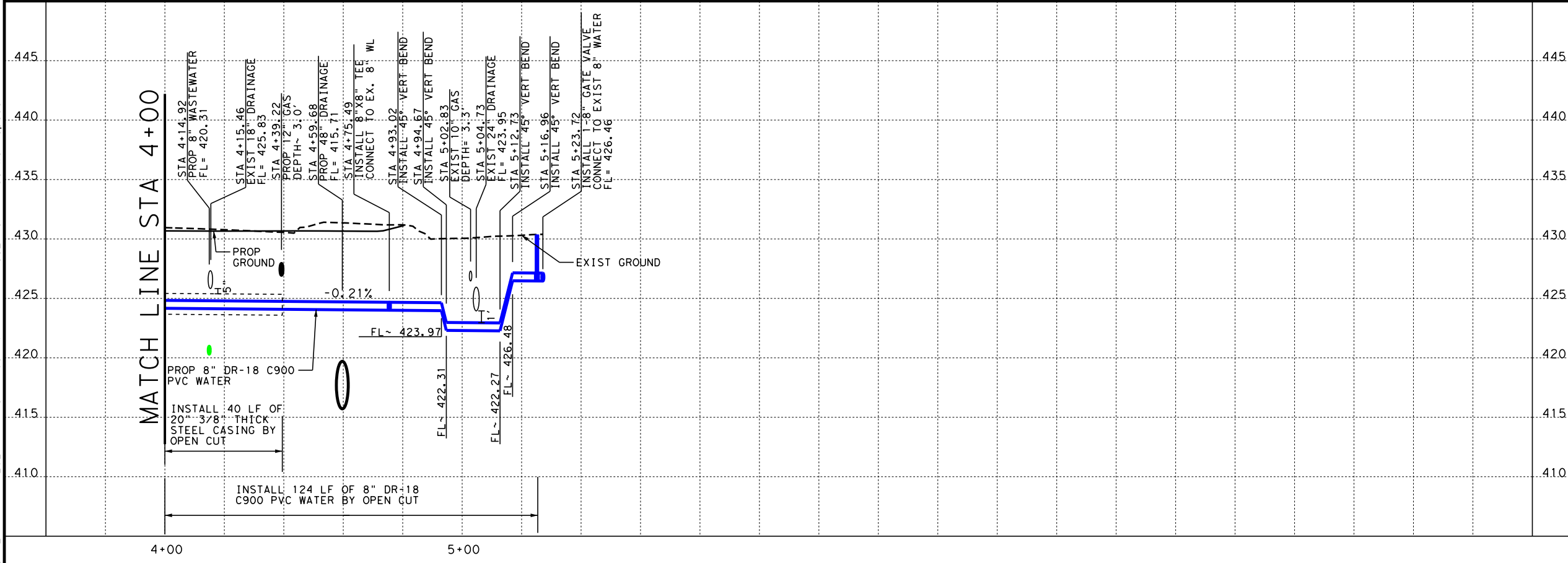


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "20" PLAN AND PROFILE STA 0+00 TO STA 4+00 SHEET 1 OF 2			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1112	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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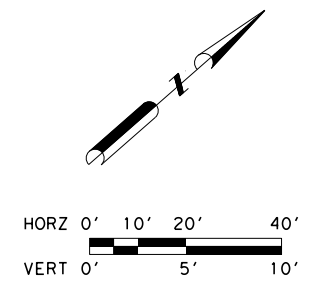
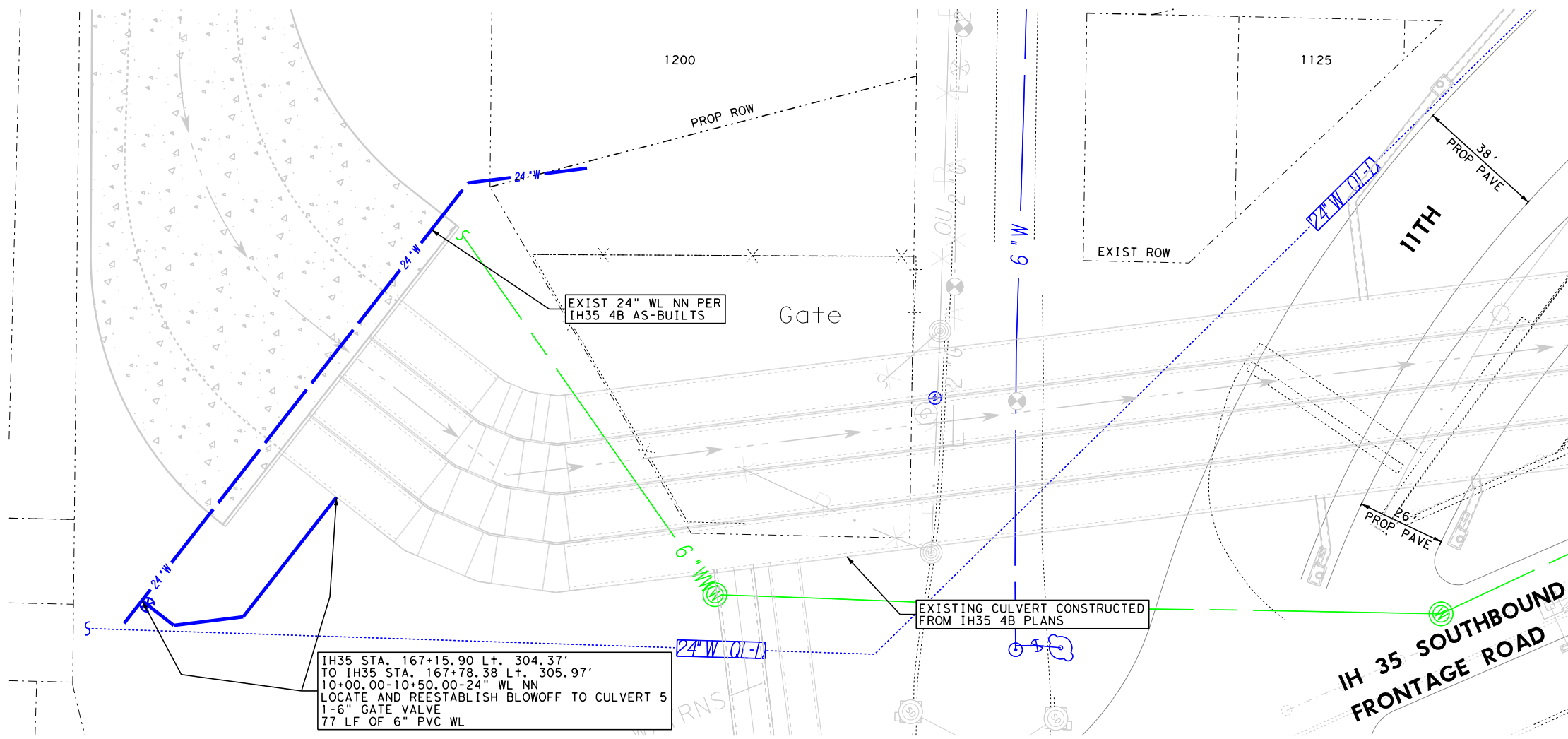


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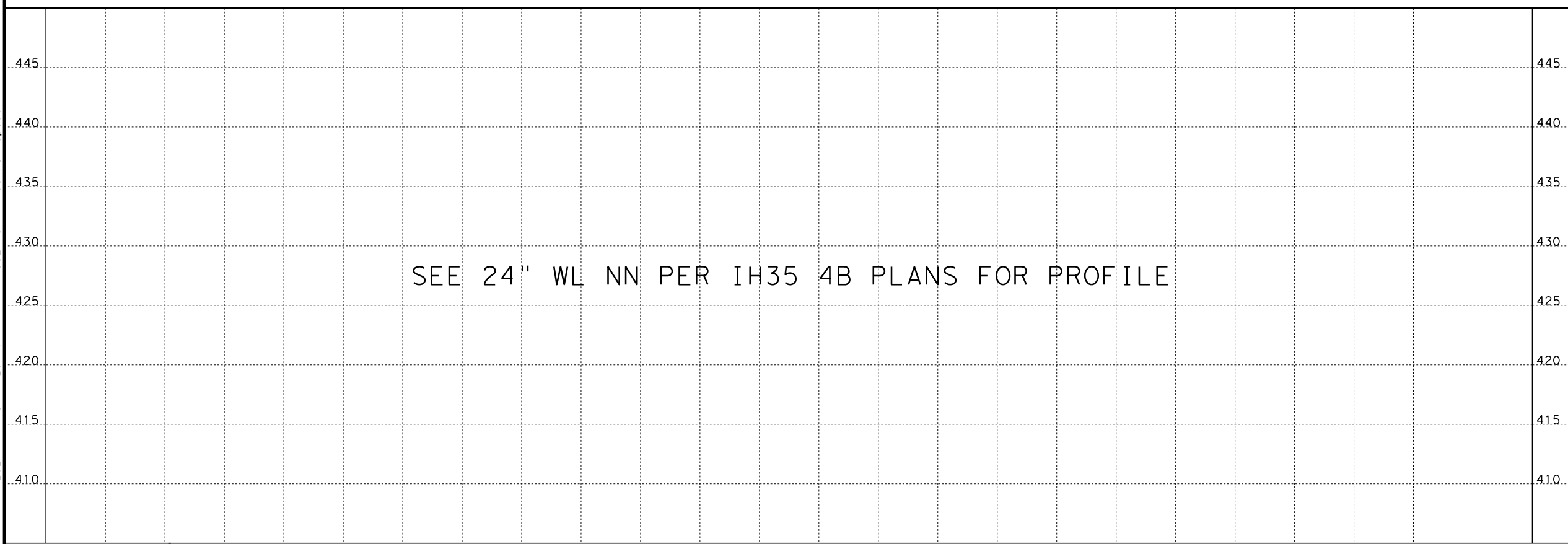


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "20" PLAN AND PROFILE STA 4+00 TO STA 5+24			
SHEET 2 OF 2			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1113	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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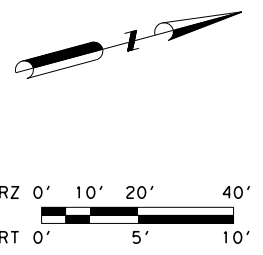
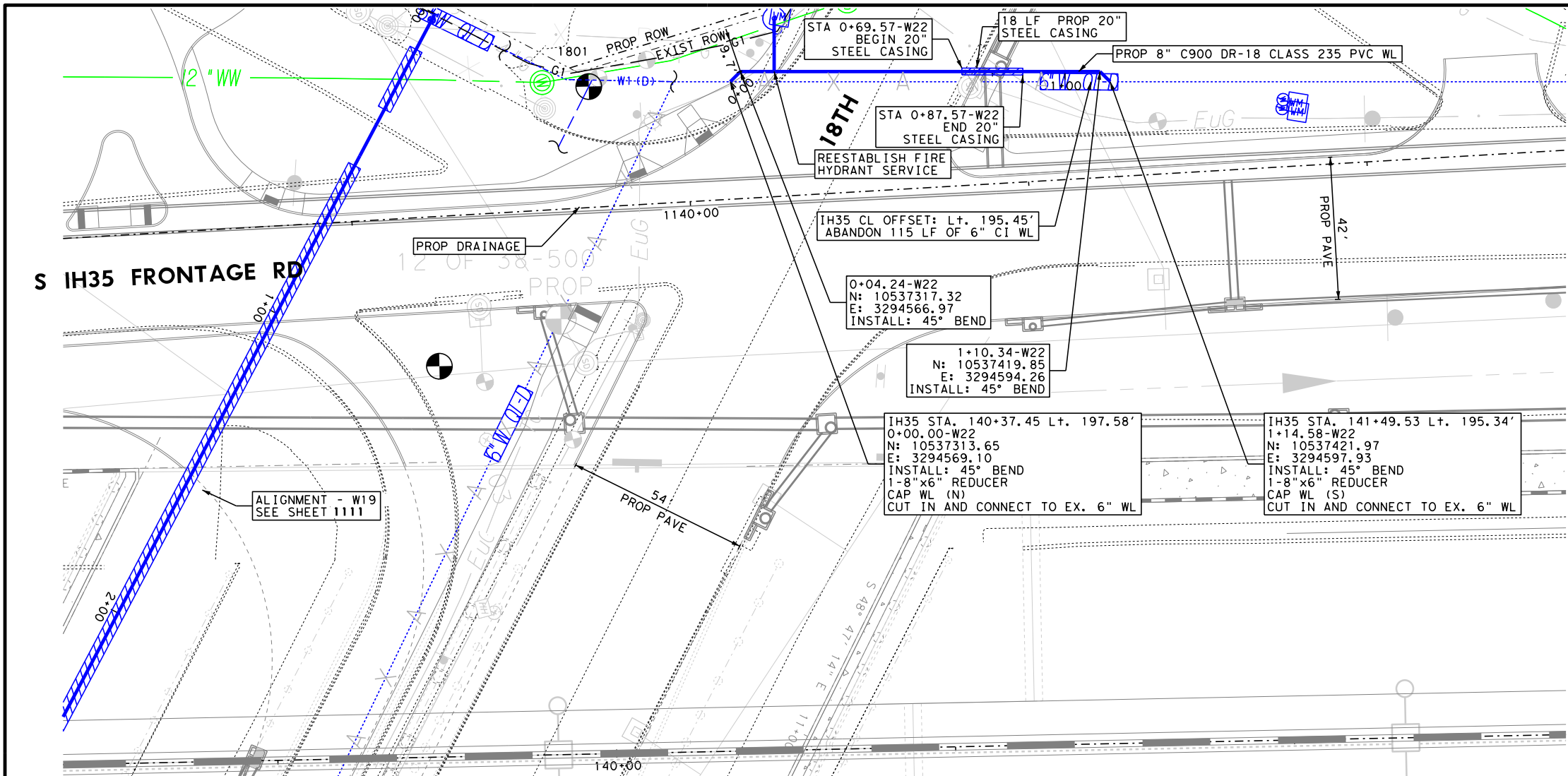


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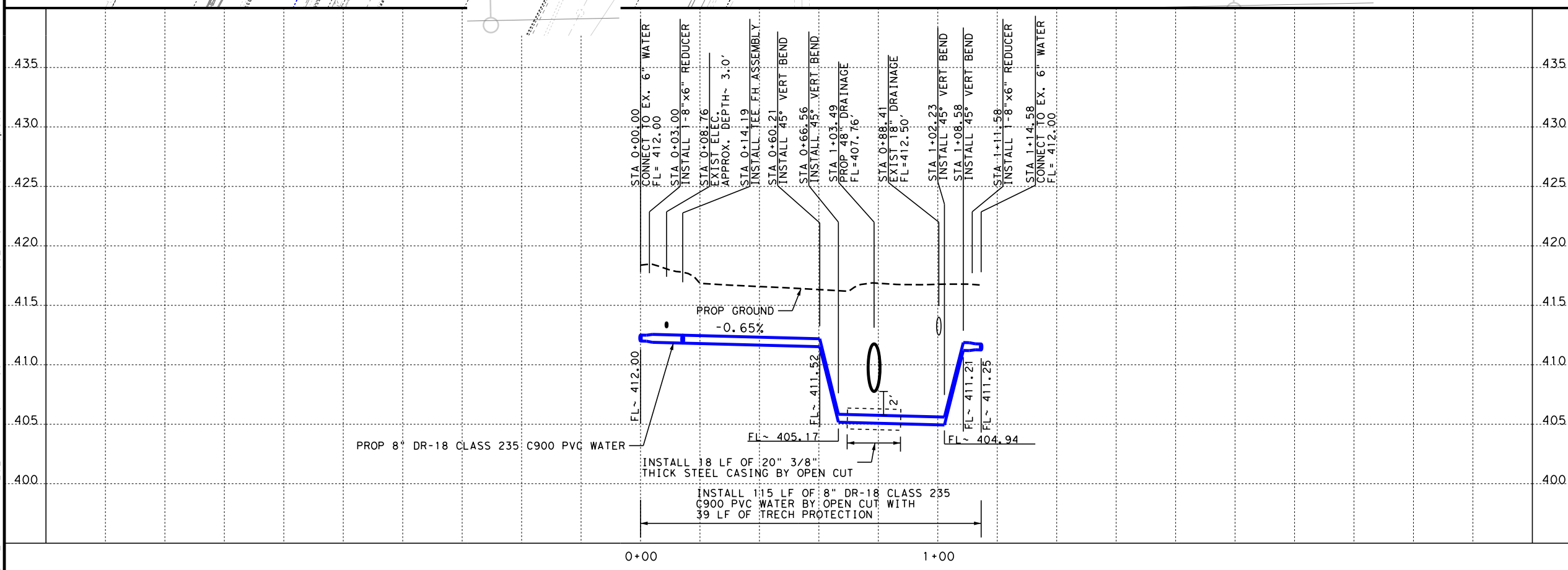


NO.	DATE	REVISION	APPROVED
LINA T. RAMEY & ASSOCIATES, INC. 3320 Belt Line Rd Farmers Branch, Texas 75234 Firm Registration No. F-782			
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "21" PLAN AND PROFILE			
SHEET 1 OF 1			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1114	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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- NOTES:**
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NO.	DATE	REVISION	APPROVED

07/17/2024

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3320 Belt Line Rd
Farmers Branch, Texas 75234
Firm Registration No. F-782

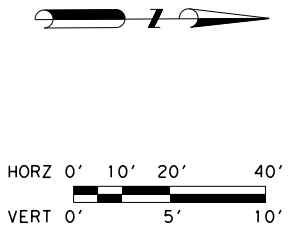
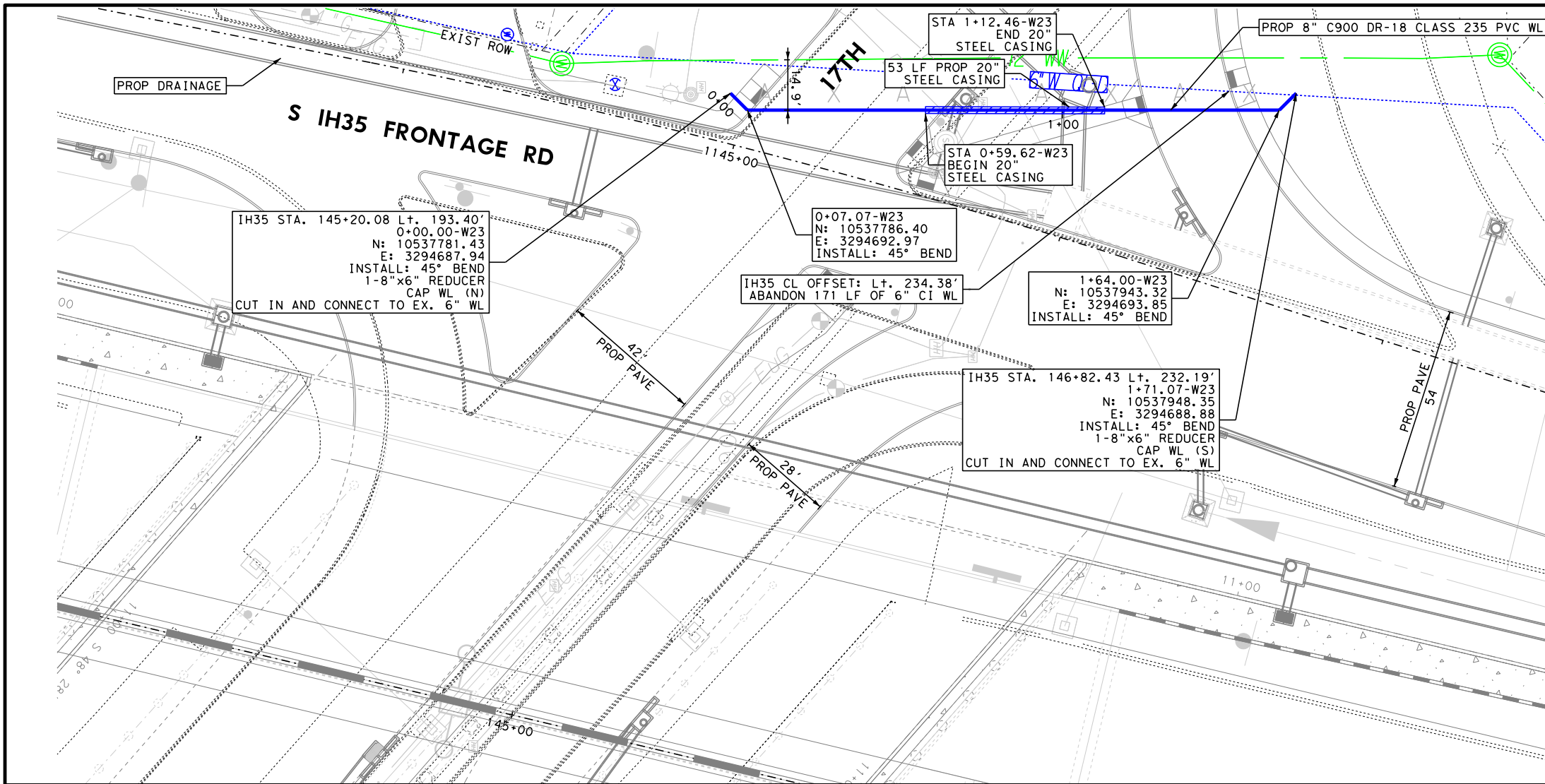
IH 35 FROM S LP 340 TO 12TH ST

WATER LINE "22"
PLAN AND PROFILE
STA 0+00 TO STA 1+15

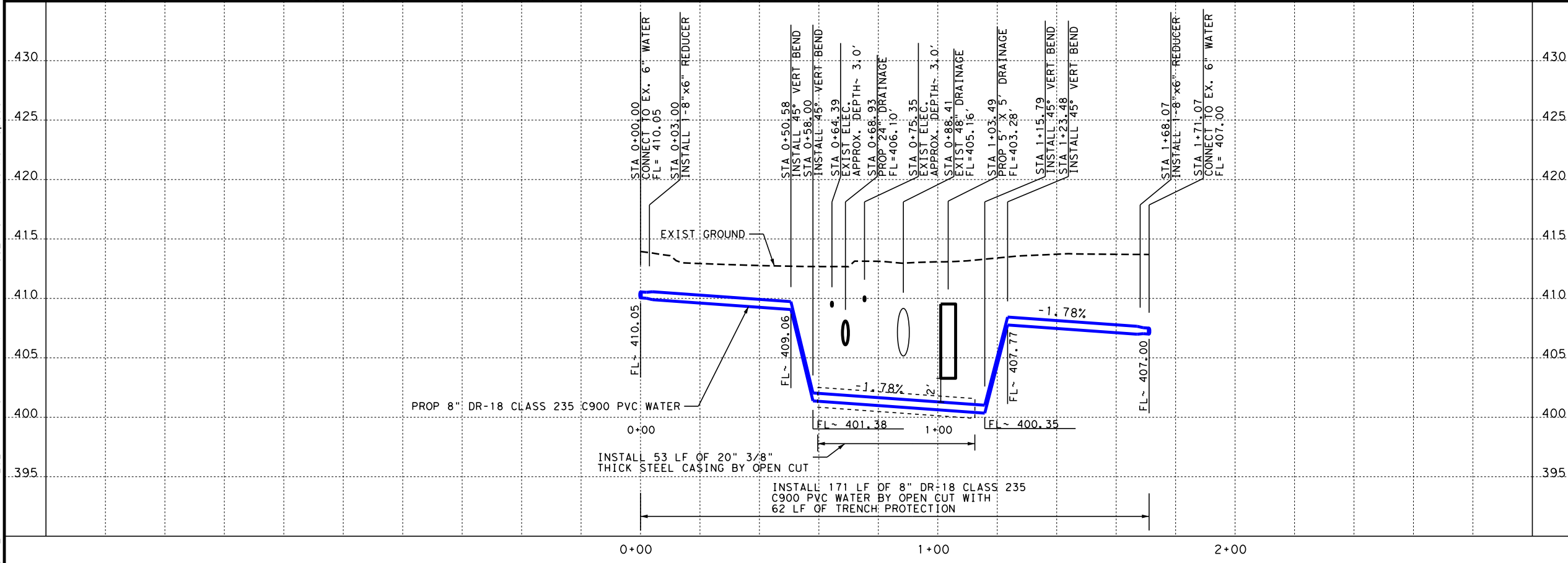
SHEET 1 OF 1

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
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STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

FILE: pwt\pw-int.hntb.org\PWCentralID\Documents\Projects\68651 Waco IH 35 4C\CAD\Sheets\06 - Utilities\IH35-W23*01.dgn
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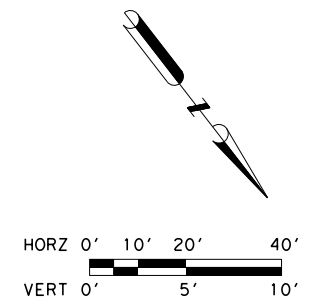
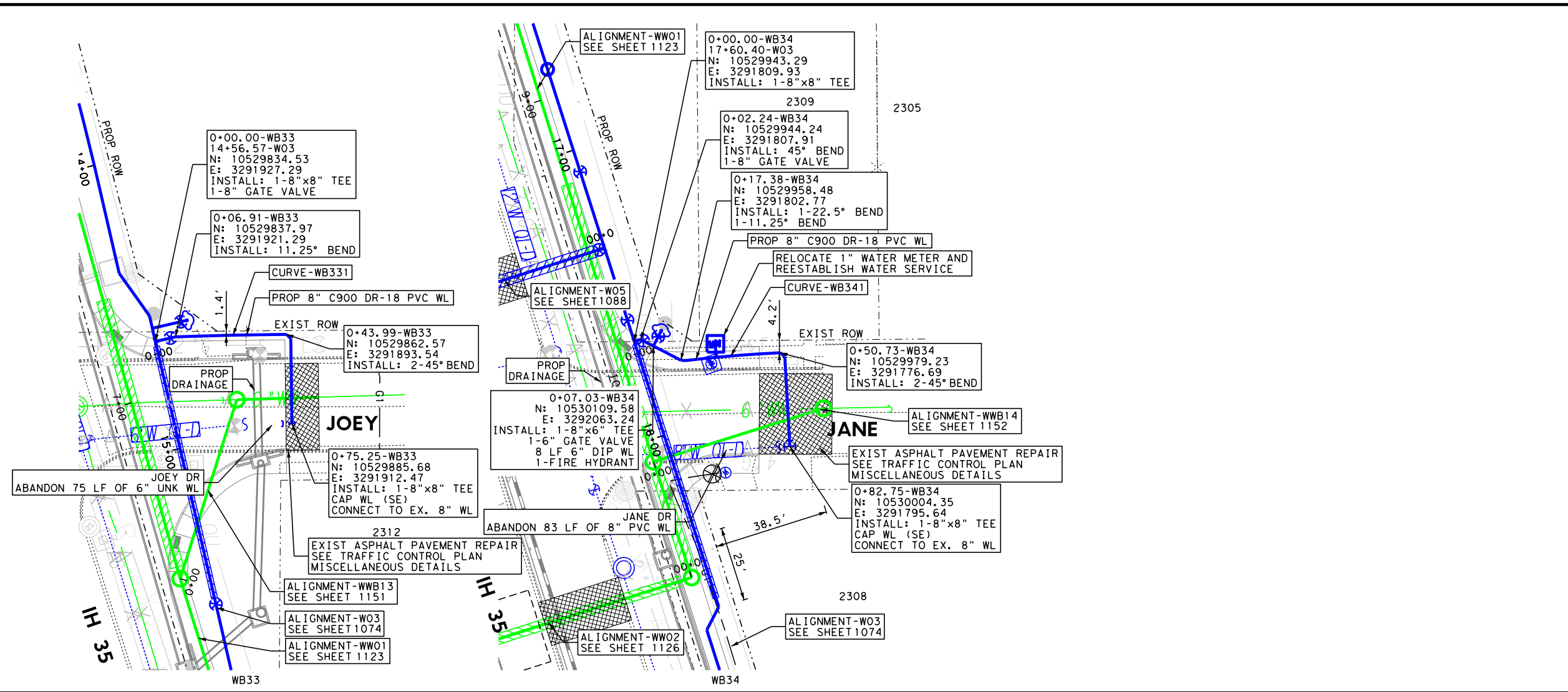


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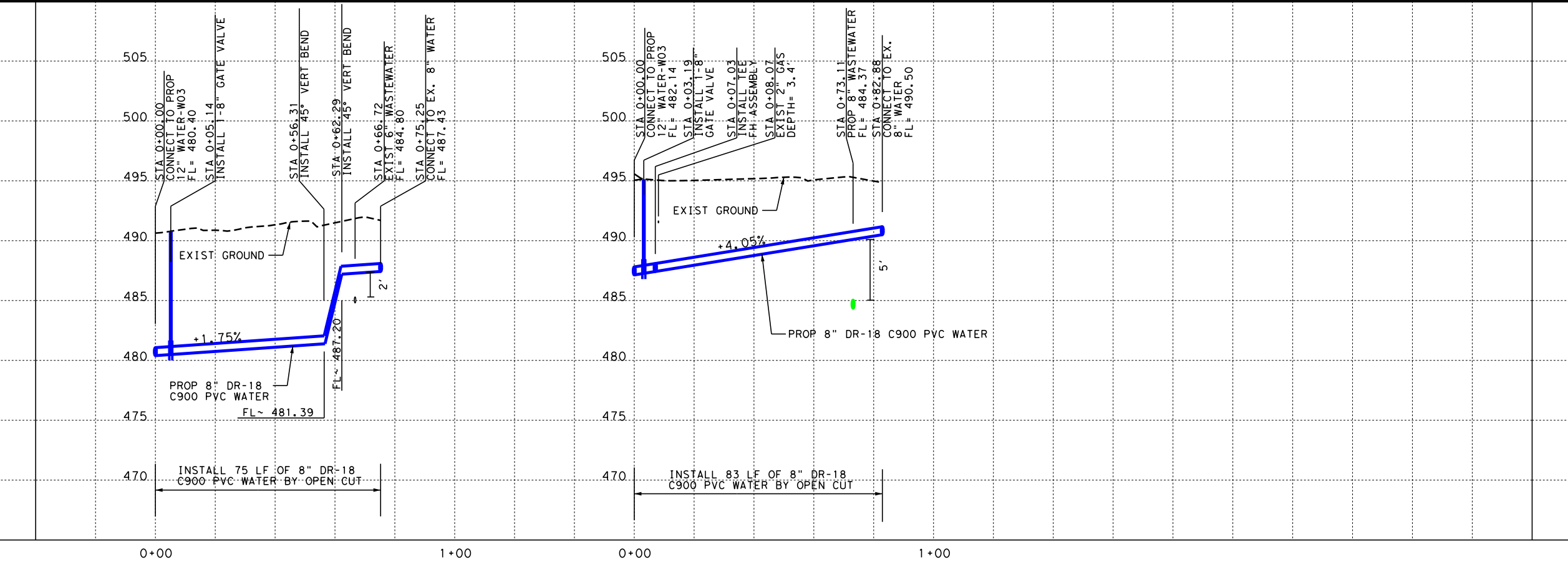


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "23" PLAN AND PROFILE STA 0+00 TO STA 1+71			
			SHEET 1 OF 1
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1116	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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- NOTES:**
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NO.	DATE	REVISION	APPROVED

07/17/2024

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LINA T. RAMEY & ASSOCIATES, INC.
 3320 Belt Line Rd
 Farmers Branch, Texas 75234
 Firm Registration No. F-782

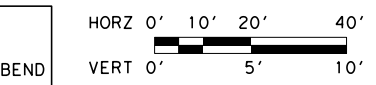
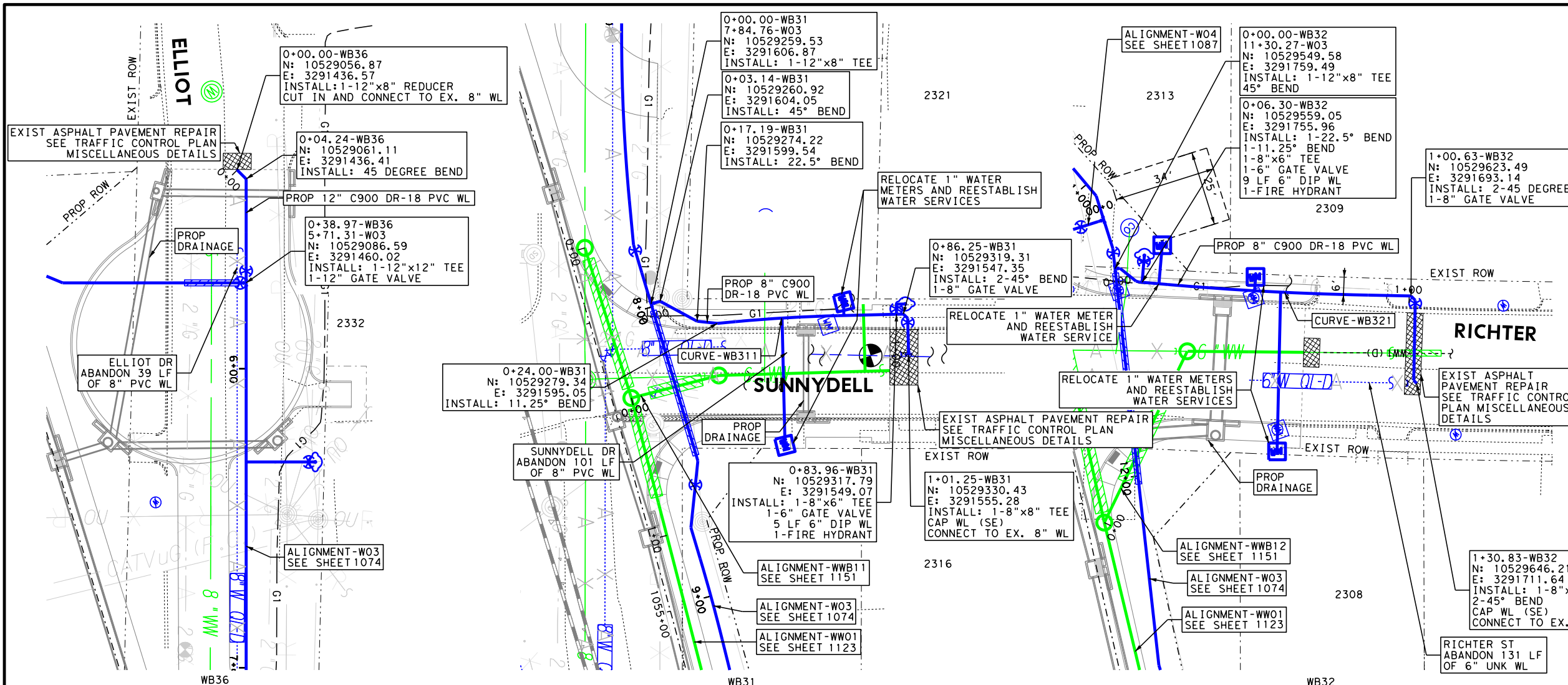
IH 35 FROM S LP 340 TO 12TH ST

 WATER LINE "33-34"
 PLAN AND PROFILE

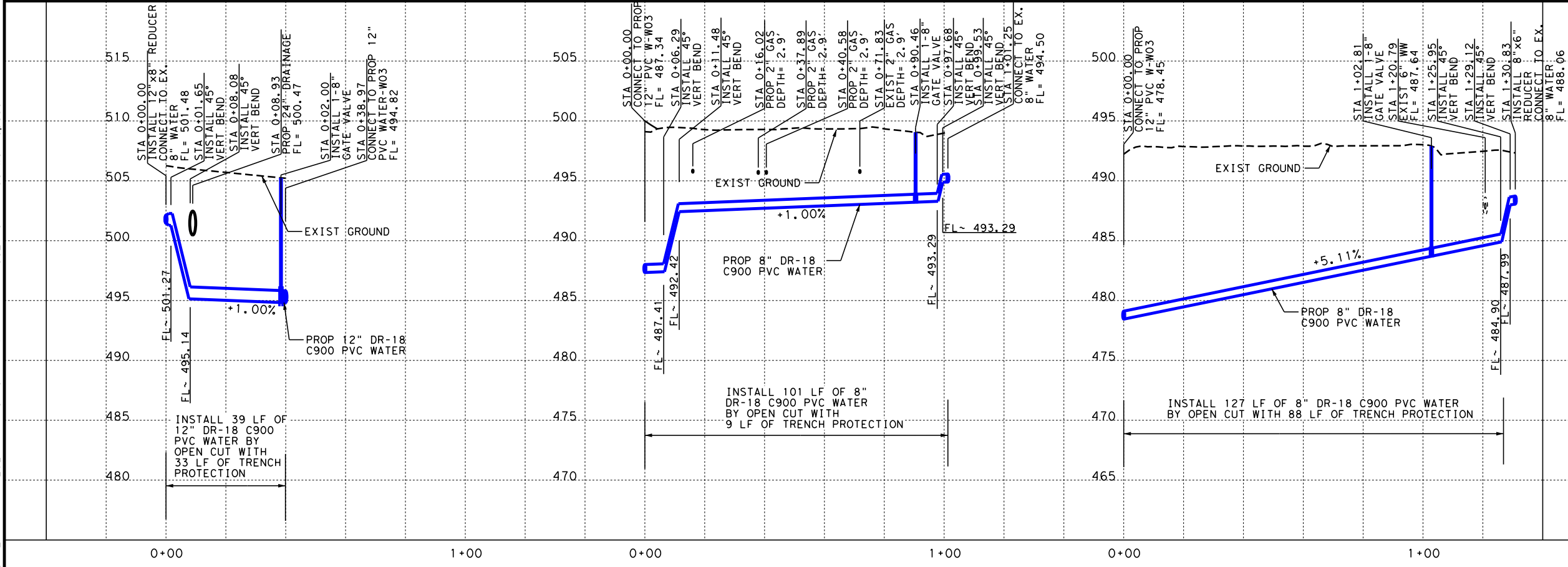
SHEET 1 OF 1

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
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STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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NO.	DATE	REVISION	APPROVED

MATT WOLFE
 136362
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 3320 Belt Line Rd
 Farmers Branch, Texas 75234
 Firm Registration No. F-782

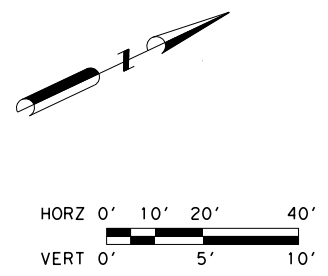
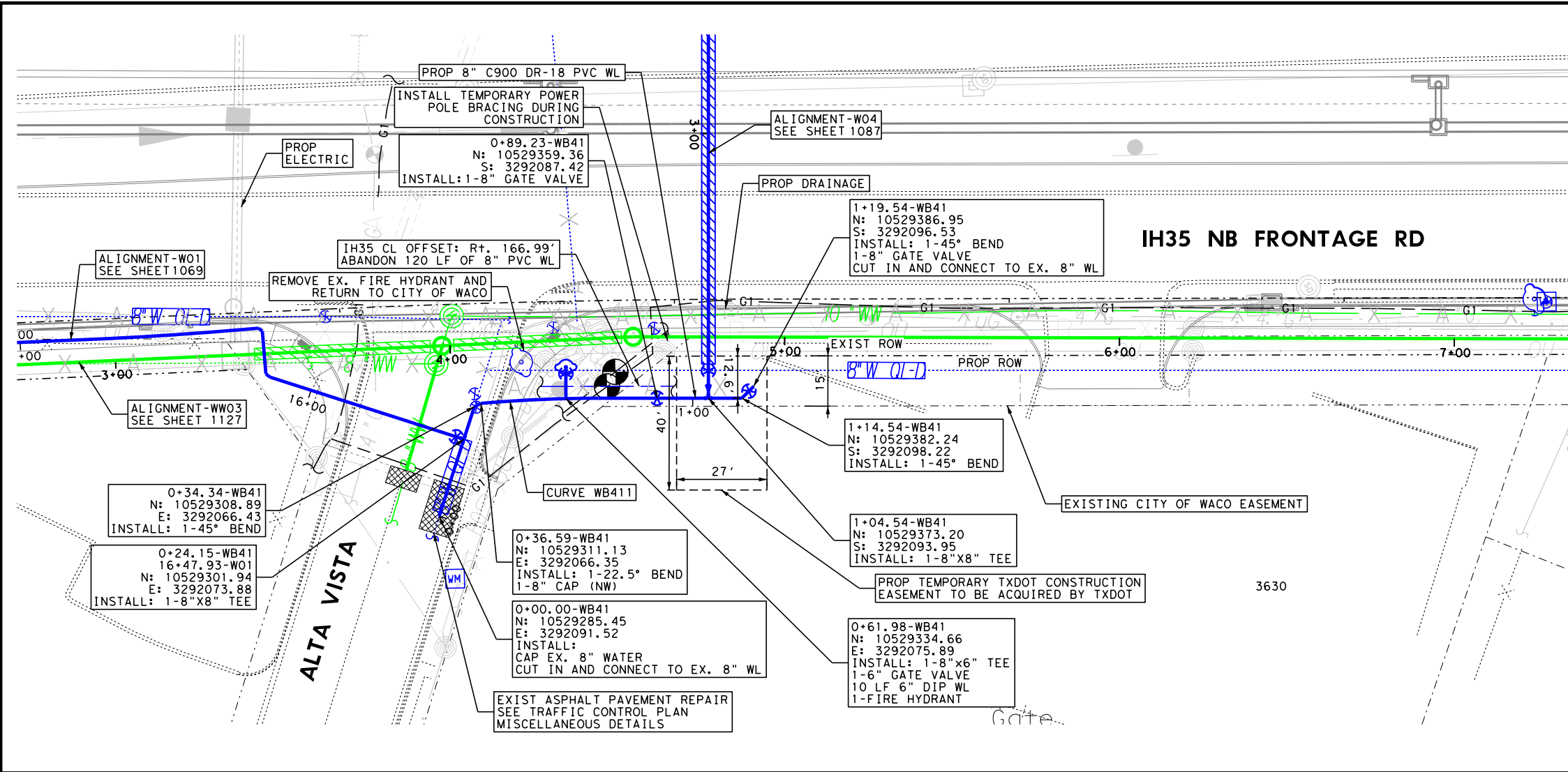
IH 35 FROM S LP 340 TO 12TH ST

WATER LINE "36-31-32"
 PLAN AND PROFILE

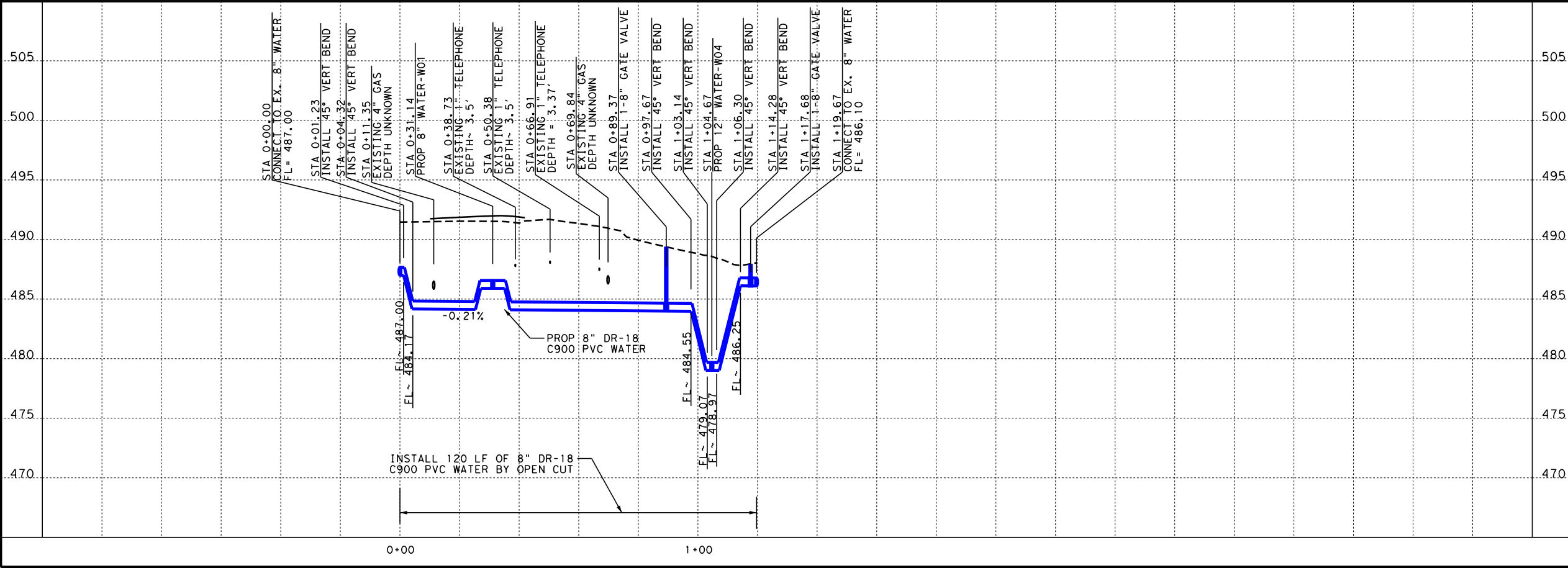
SHEET 1 OF 1

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1118	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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- NOTES:**
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NO.	DATE	REVISION	APPROVED

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 Farmers Branch, Texas 75234
 Firm Registration No. F-782

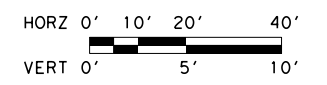
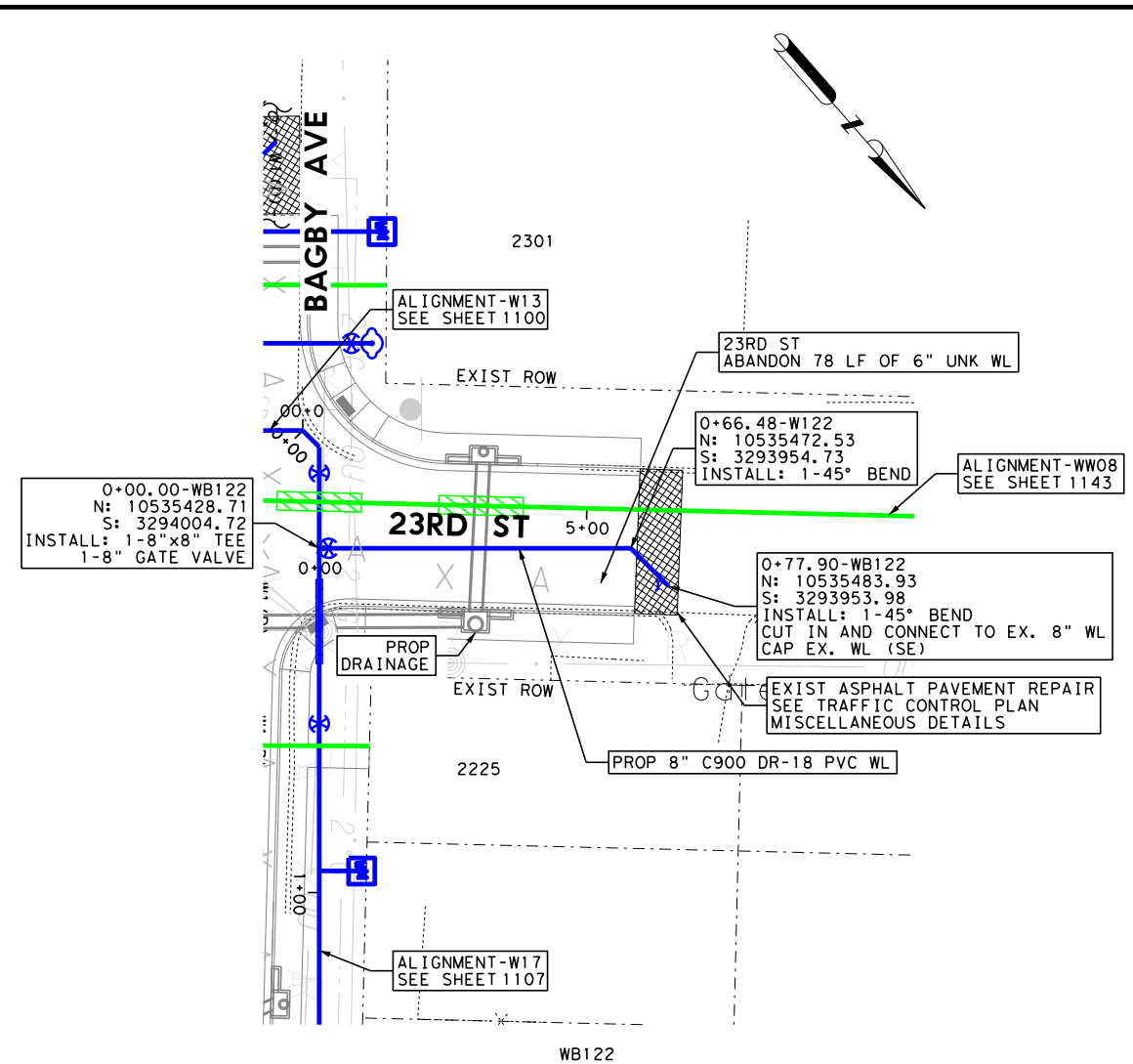
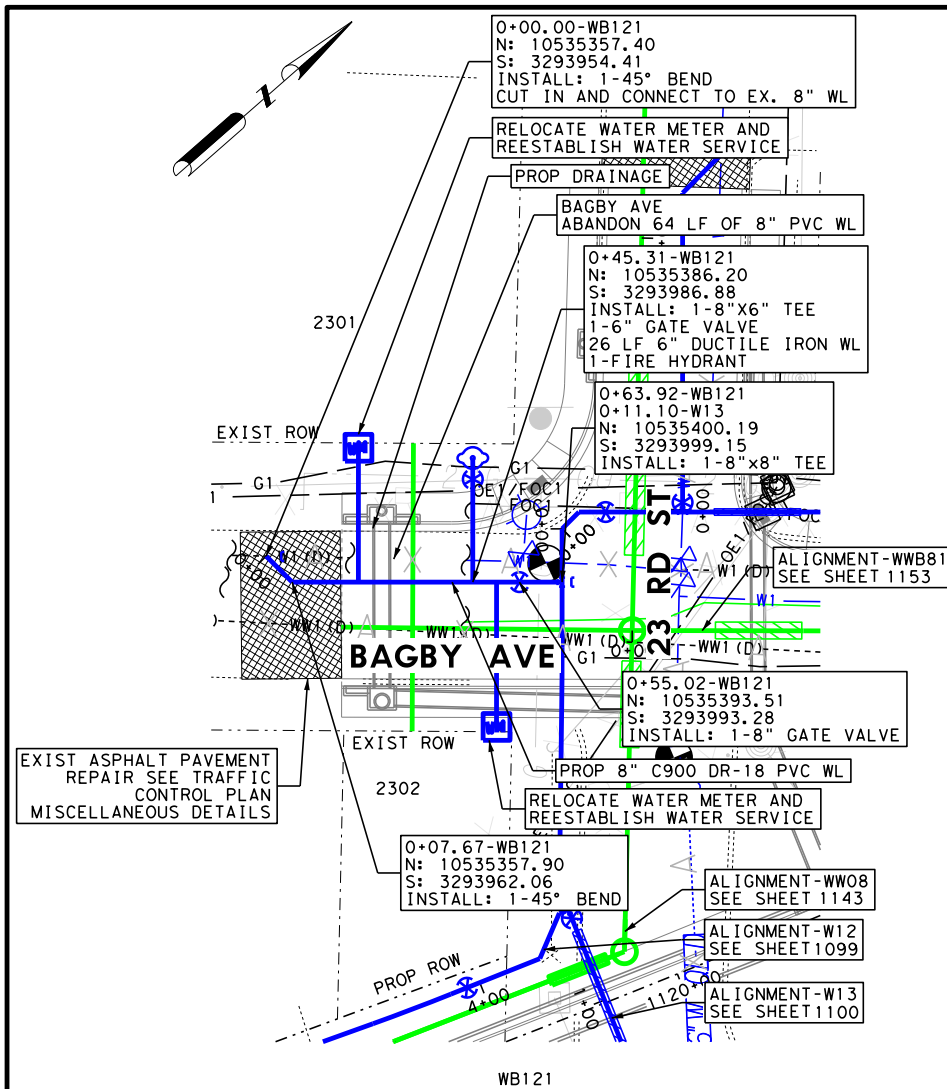
IH 35 FROM S LP 340 TO 12TH ST

WATER LINE "41"
 PLAN AND PROFILE
 STA 0+00 TO STA 1+20

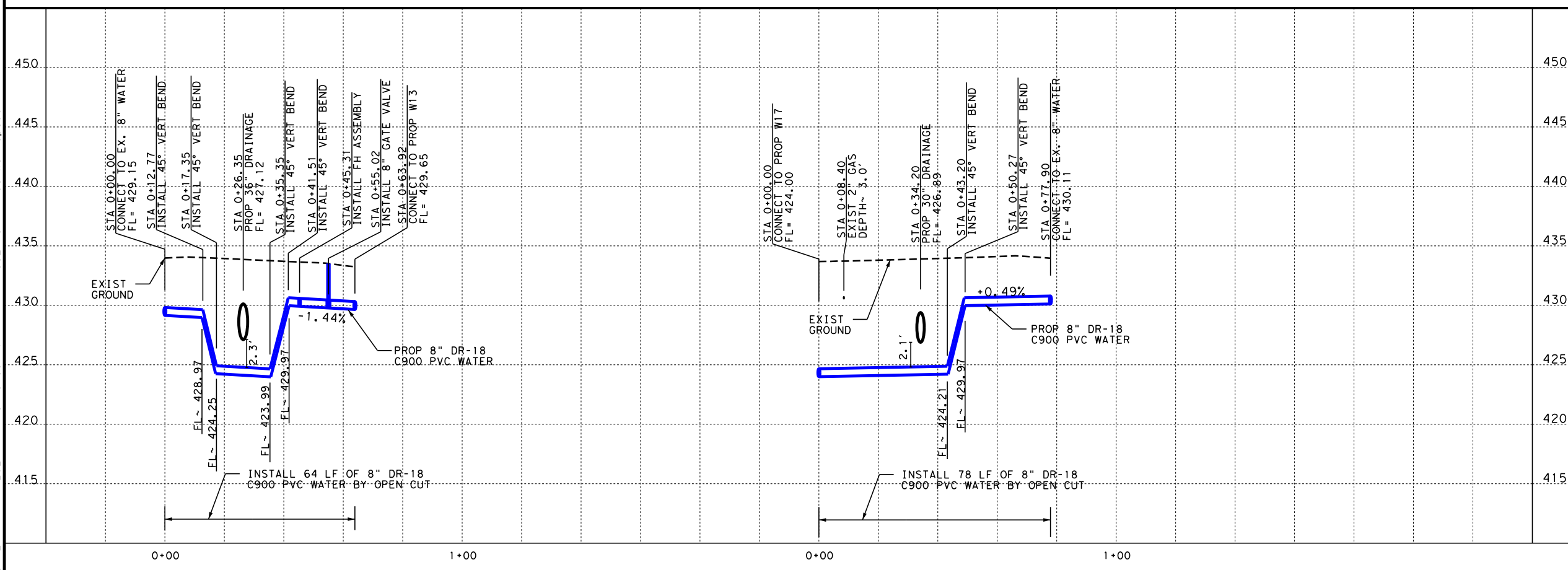
SHEET 1 OF 1

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1119	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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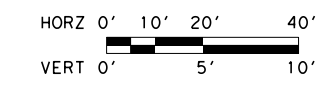
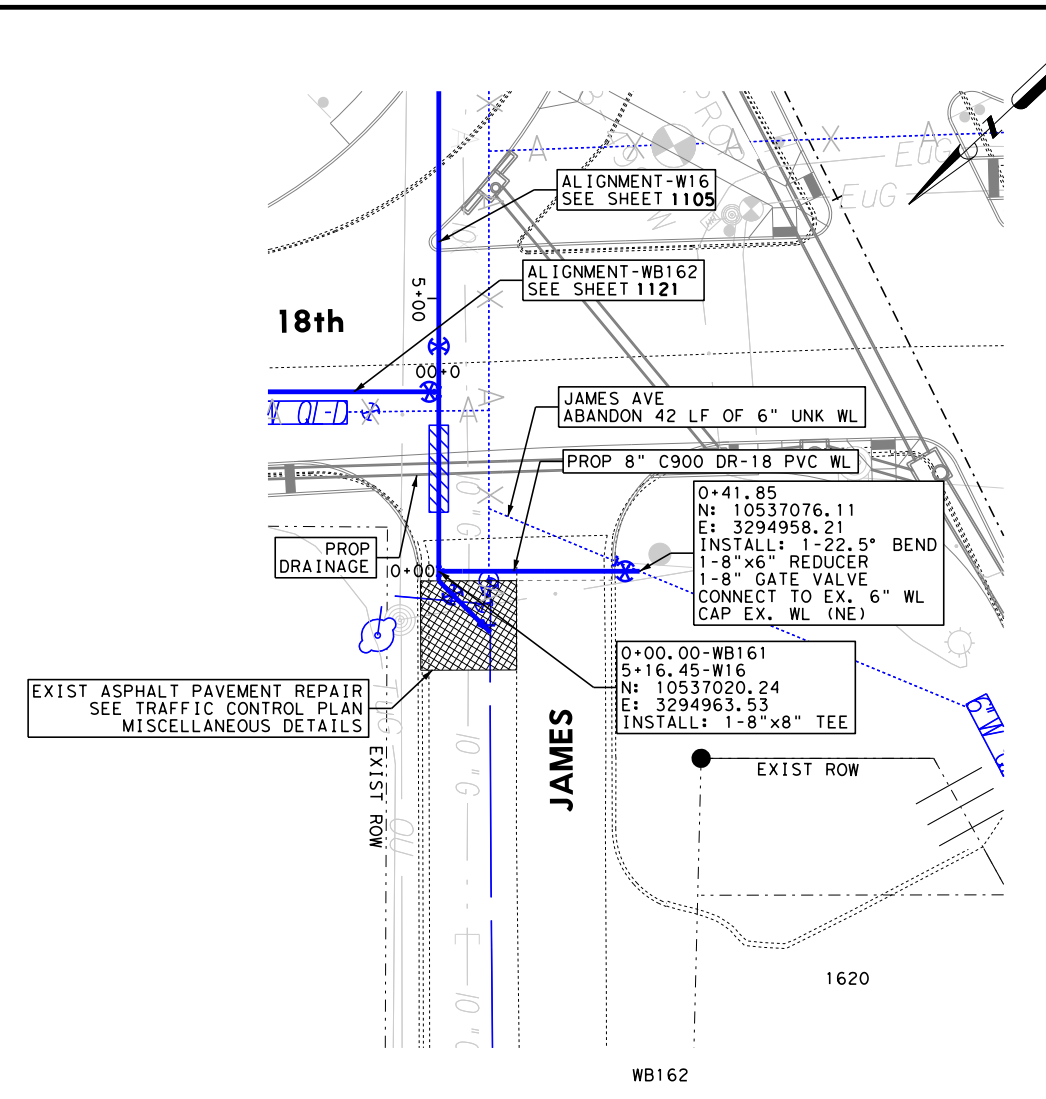
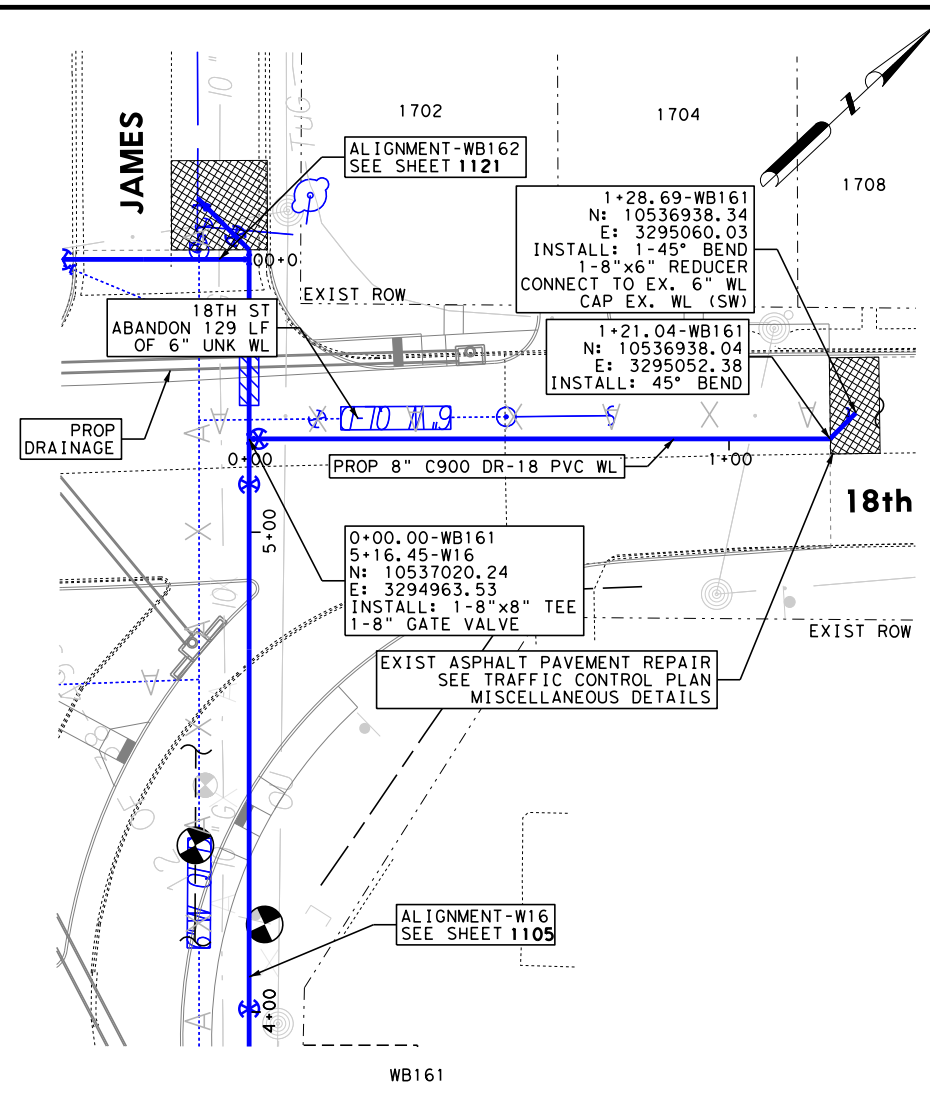


- NOTES:**
1. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 3. WATER SERVICE INTERRUPTIONS SHALL BE LESS THAN 8 HOURS AND TEMPORARY SERVICES SHALL BE PROVIDED IF NEEDED. 48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WACO PRIOR TO ANY SHUTDOWN.
 4. WATERLINE SEGMENTS SHALL BE CENTERED OVER WASTEWATER CROSSING PER TCEQ.
 5. EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 6. ALL SERVICES SHALL BE REESTABLISHED.
 7. A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
 8. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.

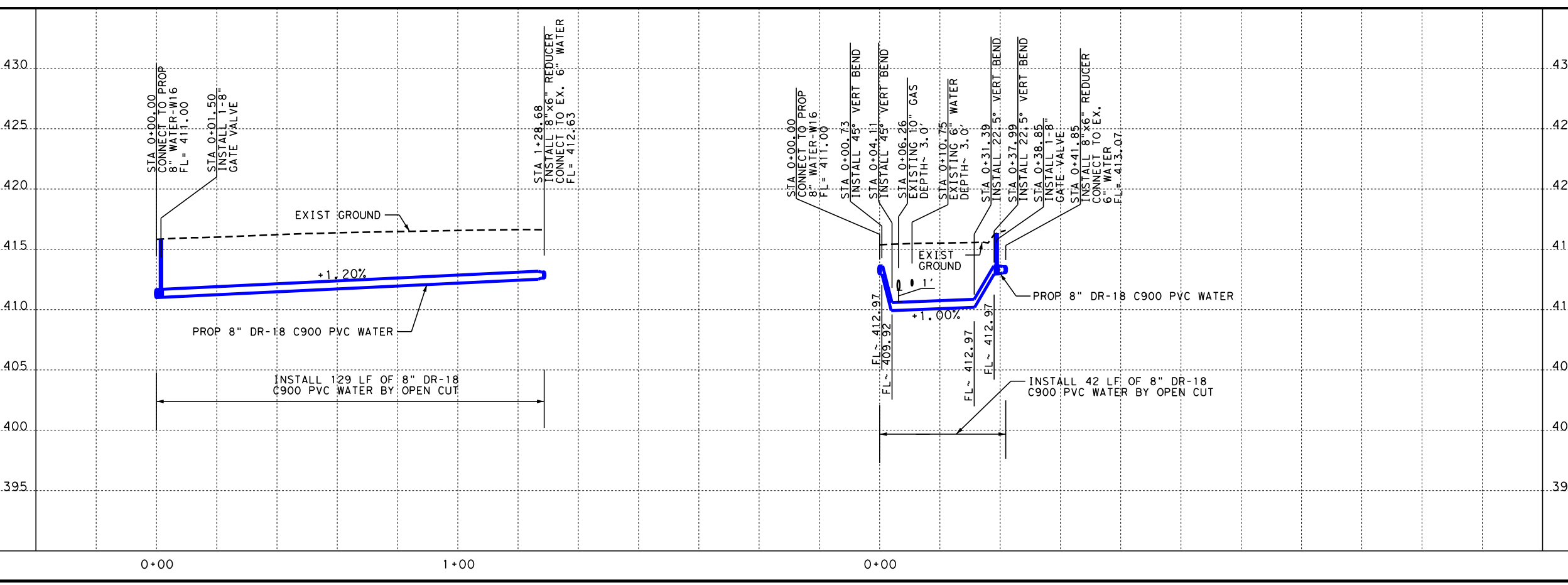


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "121-122" PLAN AND PROFILE STA 0+00 TO STA 0+80			
			SHEET 1 OF 1
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1120	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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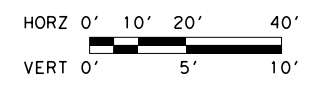
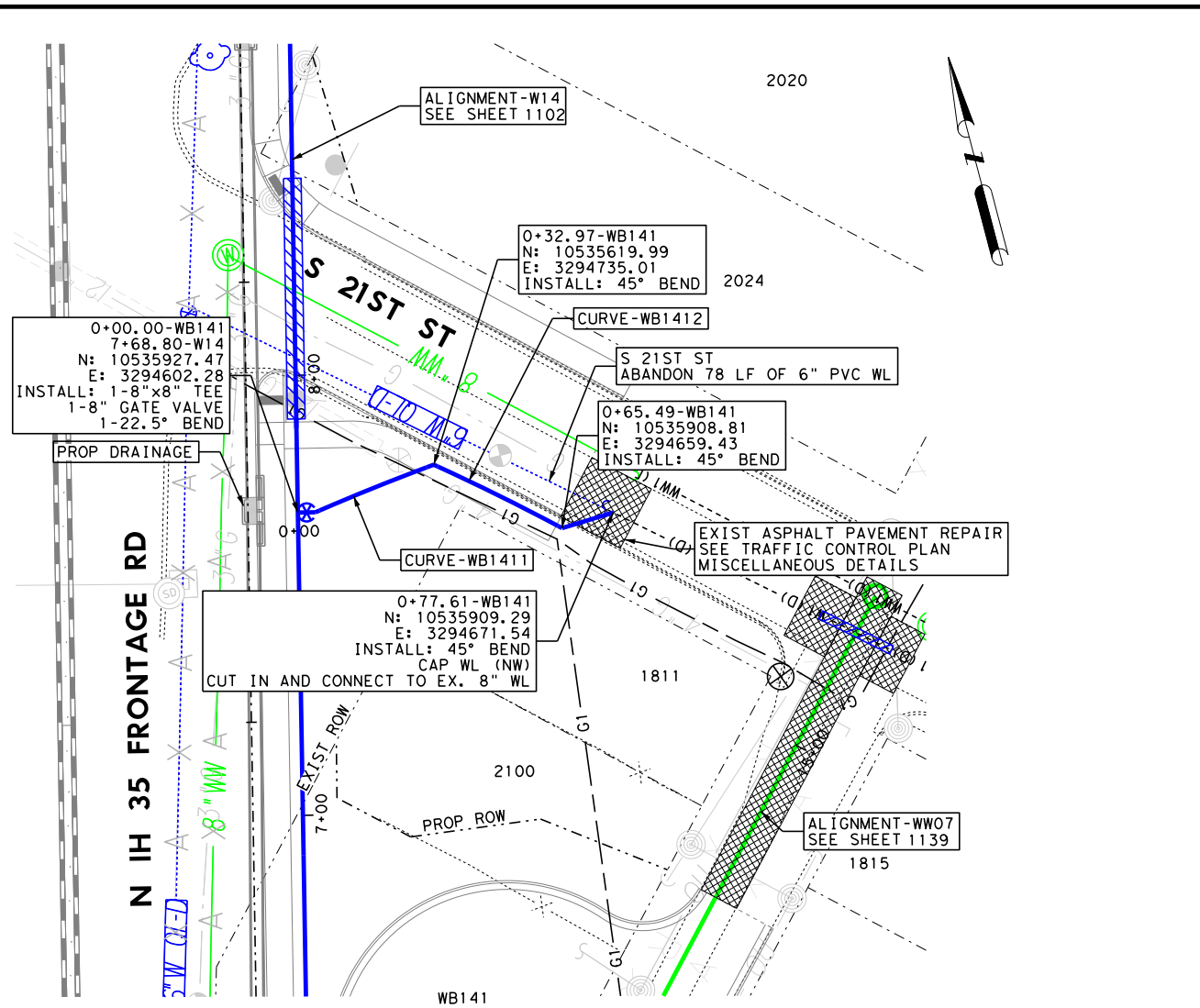
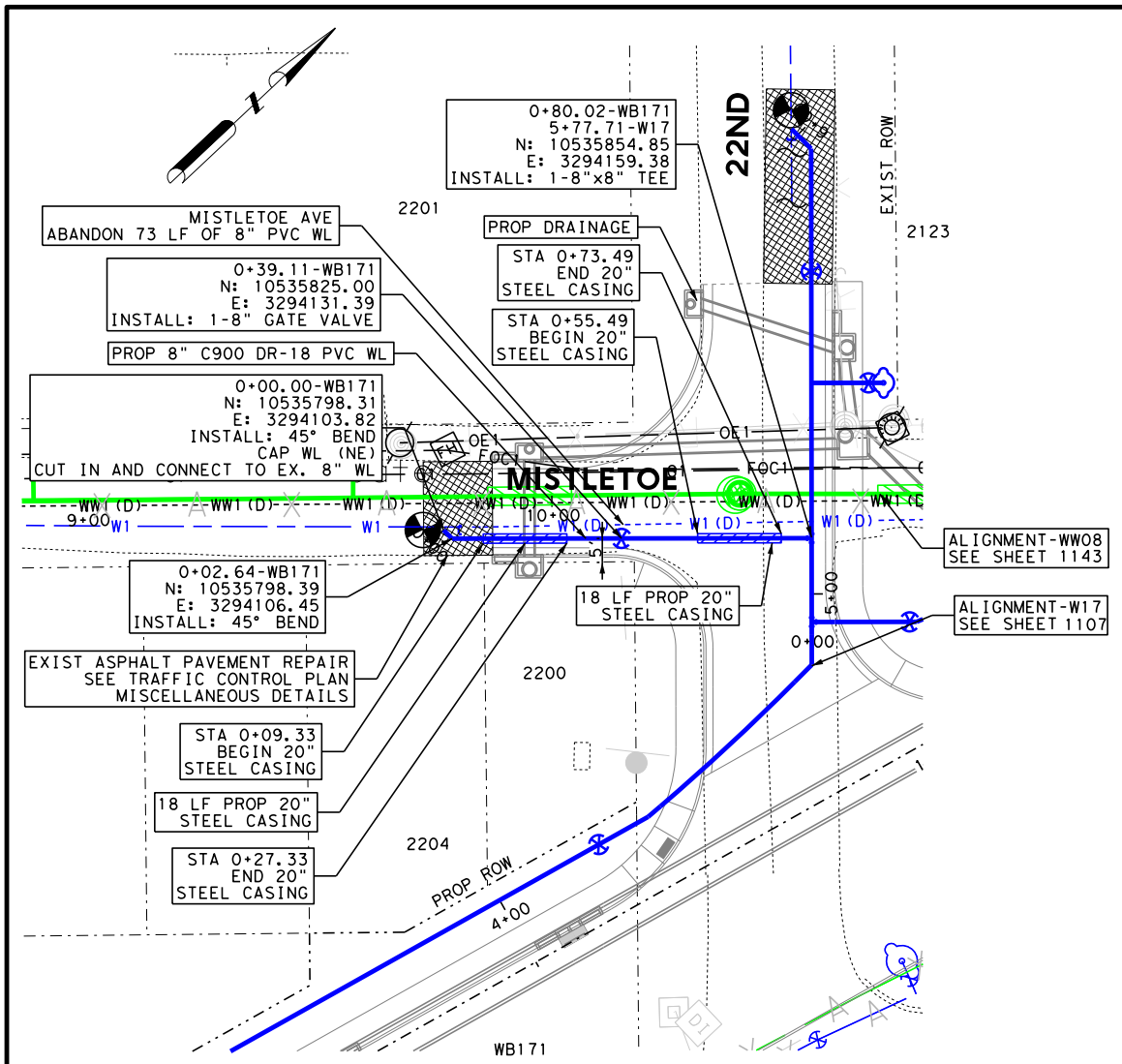


- NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 - SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 - WATER SERVICE INTERRUPTIONS SHALL BE LESS THAN 8 HOURS AND TEMPORARY SERVICES SHALL BE PROVIDED IF NEEDED. 48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WACO PRIOR TO ANY SHUTDOWN.
 - WATERLINE SEGMENTS SHALL BE CENTERED OVER WASTEWATER CROSSING PER TCEQ.
 - EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 - ALL SERVICES SHALL BE REESTABLISHED.
 - A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
 - ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.

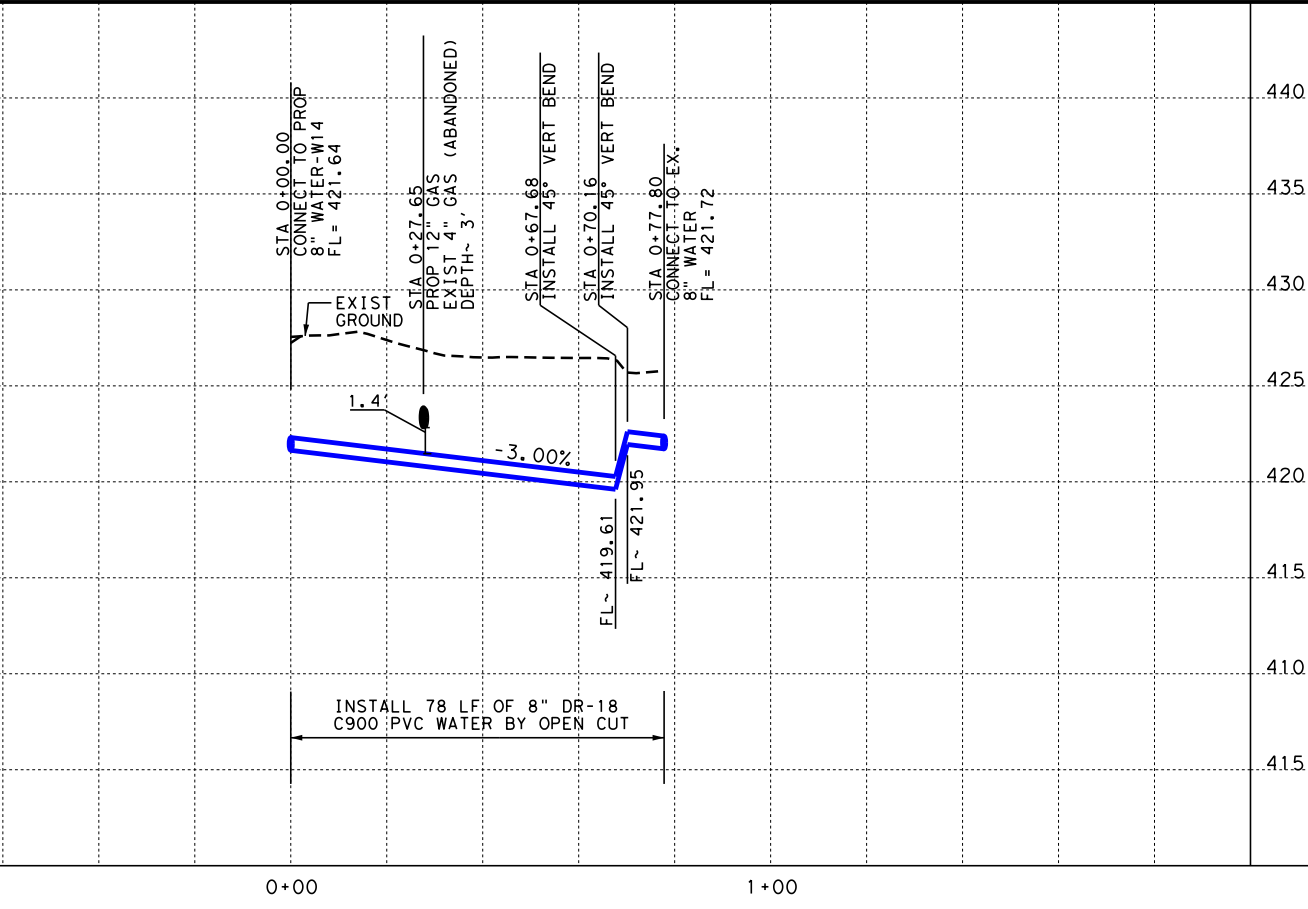
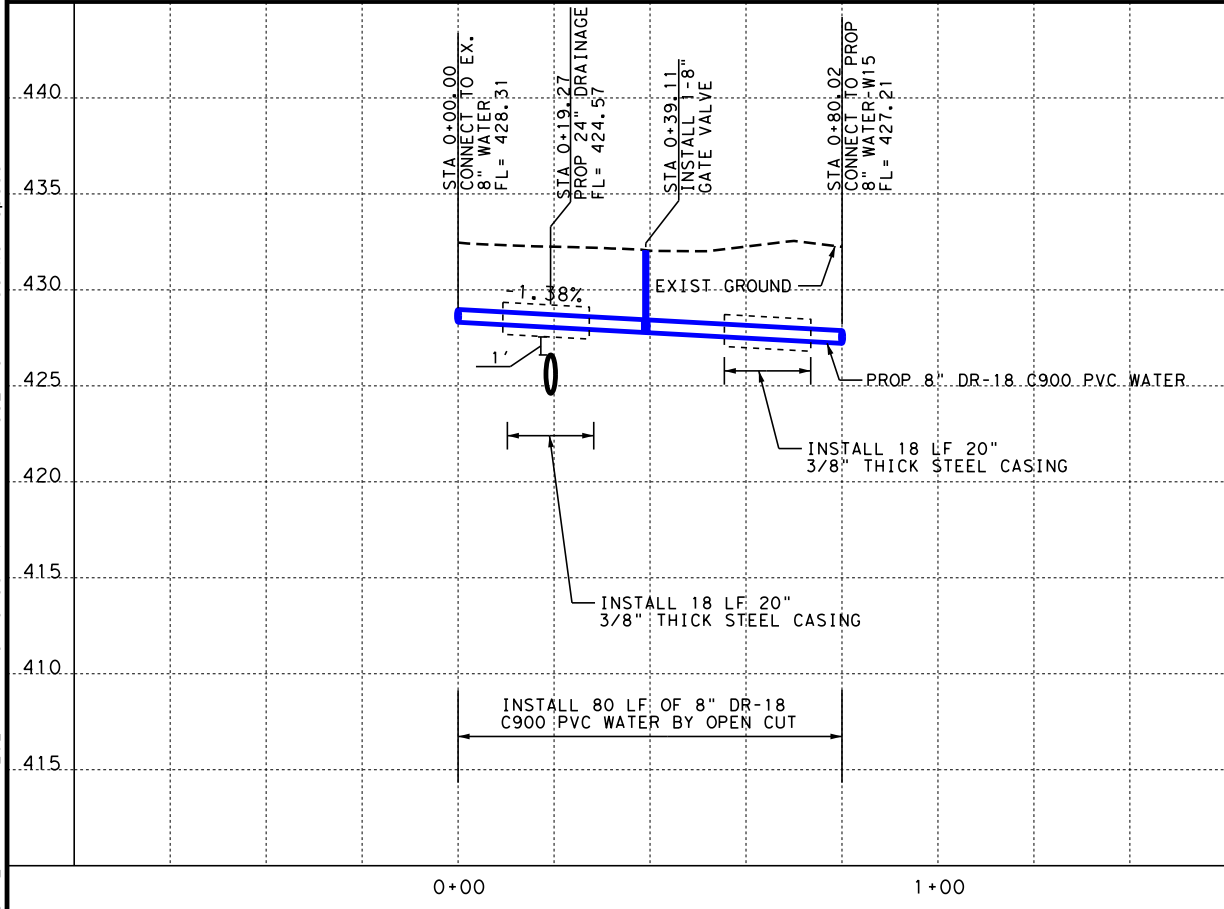


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "161-162" PLAN AND PROFILE			
SHEET 1 OF 1			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1121	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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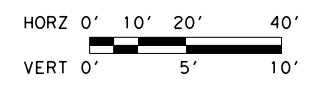
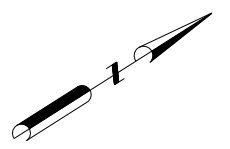
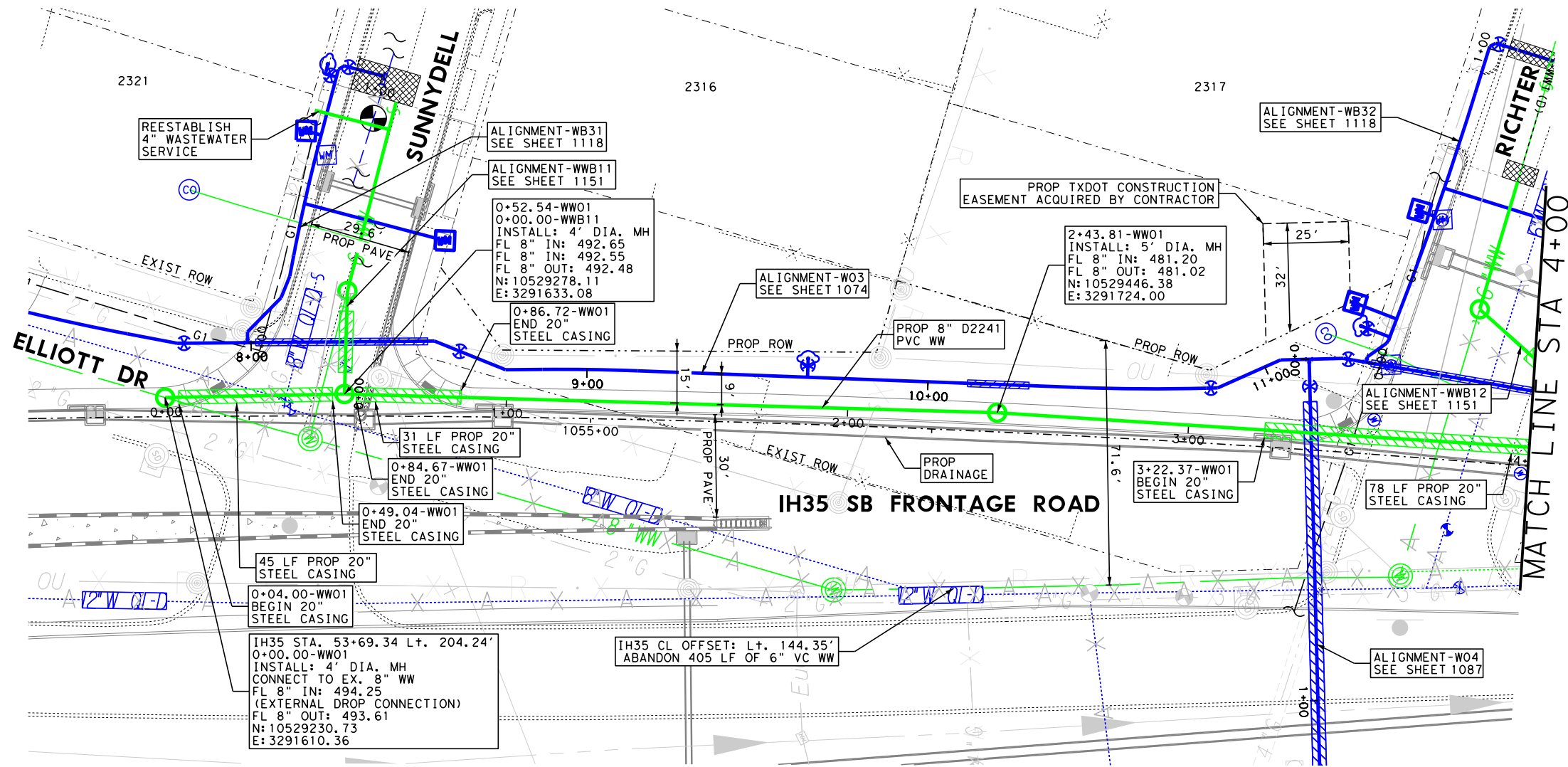


- NOTES:
1. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 3. WATER SERVICE INTERRUPTIONS SHALL BE LESS THAN 8 HOURS AND TEMPORARY SERVICES SHALL BE PROVIDED IF NEEDED. 48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WACO PRIOR TO ANY SHUTDOWN.
 4. WATERLINE SEGMENTS SHALL BE CENTERED OVER WASTEWATER CROSSING PER TCEQ.
 5. EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 6. ALL SERVICES SHALL BE REESTABLISHED.
 7. A LICENSED PLUMBER IS REQUIRED TO PERFORM ALL INSTALLATION OF YARD PIPING.
 8. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.

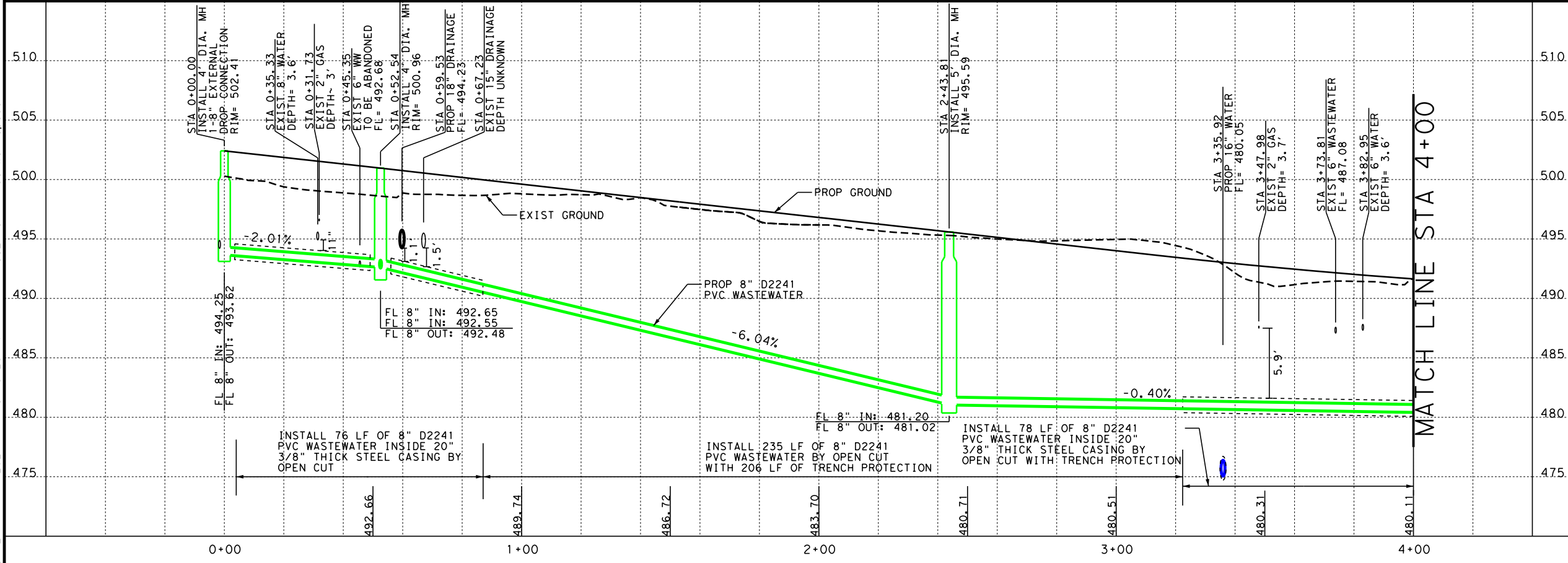


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WATER LINE "171-141" PLAN AND PROFILE			
SHEET 1 OF 1			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1122	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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- NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 - SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 - MANHOLE GRADE RING TO BE INSTALLED 6" BELOW PROPOSED GRADE. MANHOLE FRAME AND COVER TO BE ADJUSTED TO PROPOSED GRADE WHEN PROPOSED GRADE IS CONSTRUCTED. SEE CITY OF WACO DETAILS S-5 & S-6.
 - EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 - CONTRACTOR SHALL CCTV ALL EXISTING WASTEWATER TO BE LOCATED. ALL SERVICES FOUND THROUGH CCTV SHALL BE REESTABLISHED.
 - WASTEWATER MANHOLE COVERS SHALL WEIGHT AT LEAST 175LB AND BE DESIGNED FOR HS-20 LOADING.
 - ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 - EXISTING WASTEWATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.



NO.	DATE	REVISION	APPROVED

07/17/2024

Texas Department of Transportation
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LTRA LINA T. RAMEY & ASSOCIATES, INC.
3320 Belt Line Rd
Farmers Branch, Texas 75234
Firm Registration No. F-782

IH 35 FROM S LP 340 TO 12TH ST

WASTE WATER LINE "01"
PLAN AND PROFILE
STA 0+00 TO STA 4+00

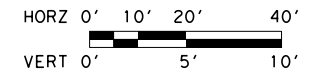
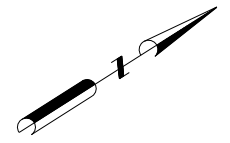
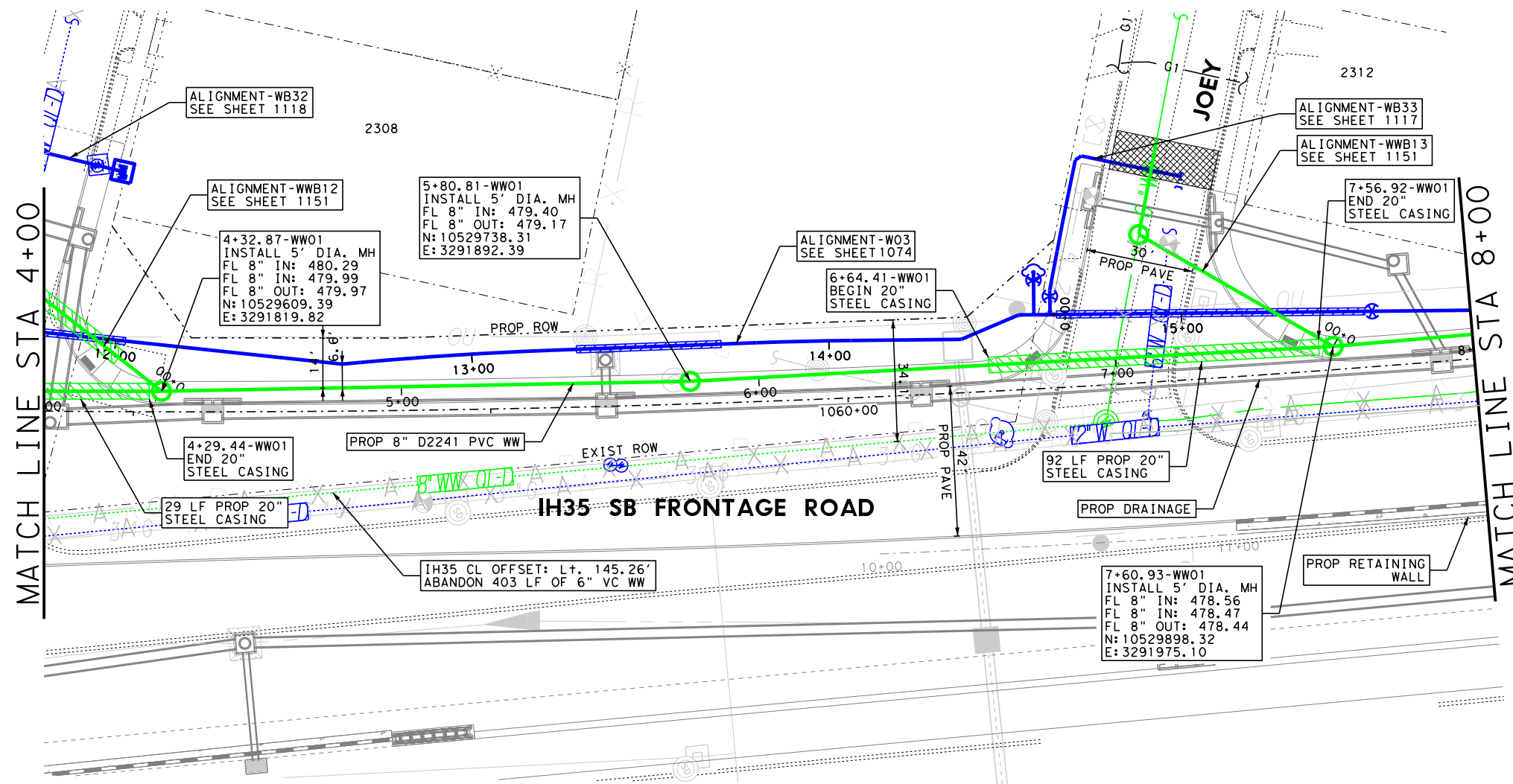
SHEET 1 OF 3

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
6	SEE TITLE SHEET	1123

STATE	DIST.	COUNTY
TEXAS	WACO	MCLENNAN

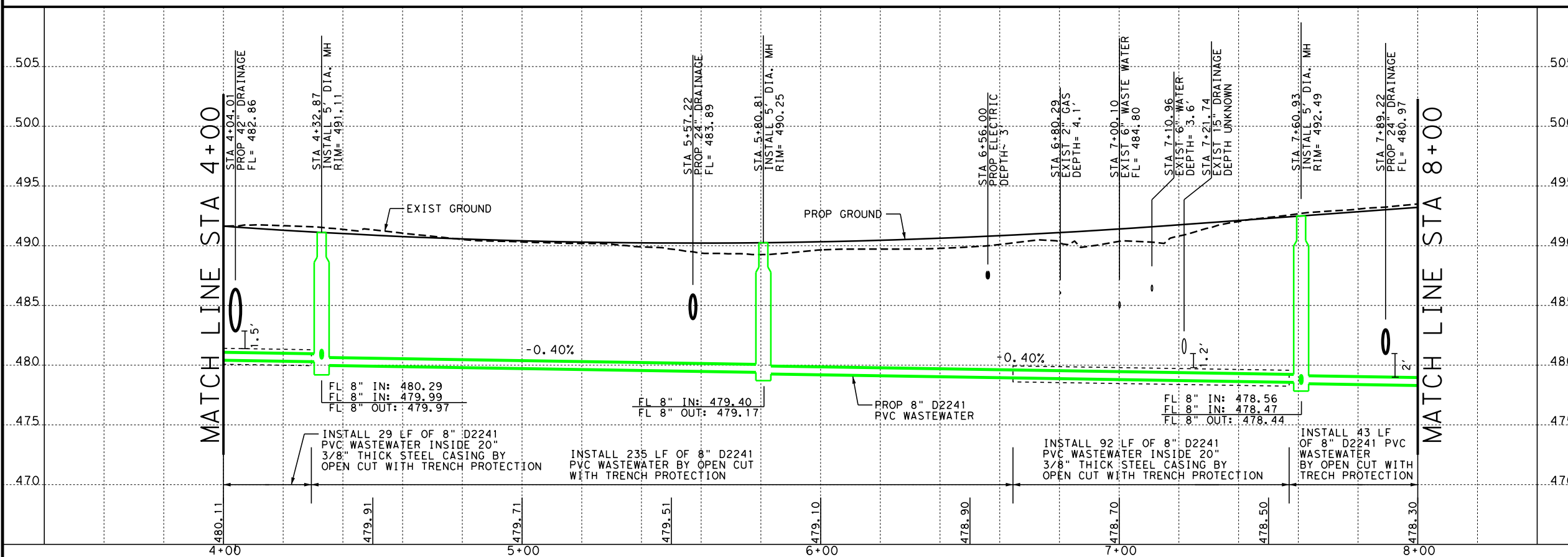
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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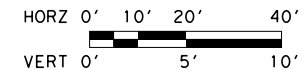
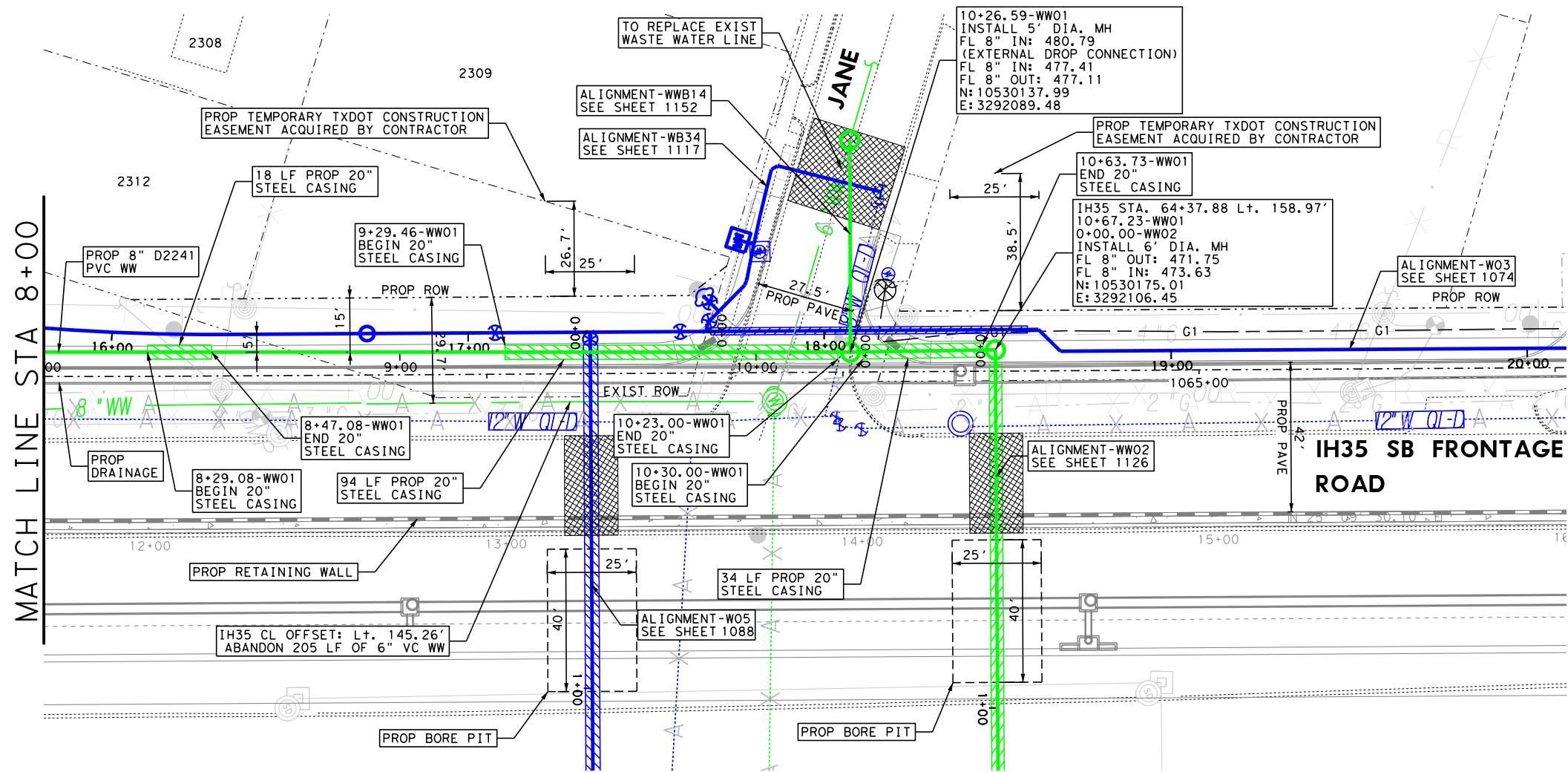
NOTES:

1. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
3. MANHOLE GRADE RING TO BE INSTALLED 6" BELOW PROPOSED GRADE. MANHOLE FRAME AND COVER TO BE ADJUSTED TO PROPOSED GRADE WHEN PROPOSED GRADE IS CONSTRUCTED. SEE CITY OF WACO DETAILS S-5 & S-6.
4. EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
5. CONTRACTOR SHALL CCTV ALL EXISTING WASTEWATER TO BE REALLOCATED. ALL SERVICES FOUND THROUGH CCTV SHALL BE REESTABLISHED.
6. WASTEWATER MANHOLE COVERS SHALL WEIGHT AT LEAST 175LB AND BE DESIGNED FOR HS-20 LOADING.
7. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
8. EXISTING WASTEWATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.



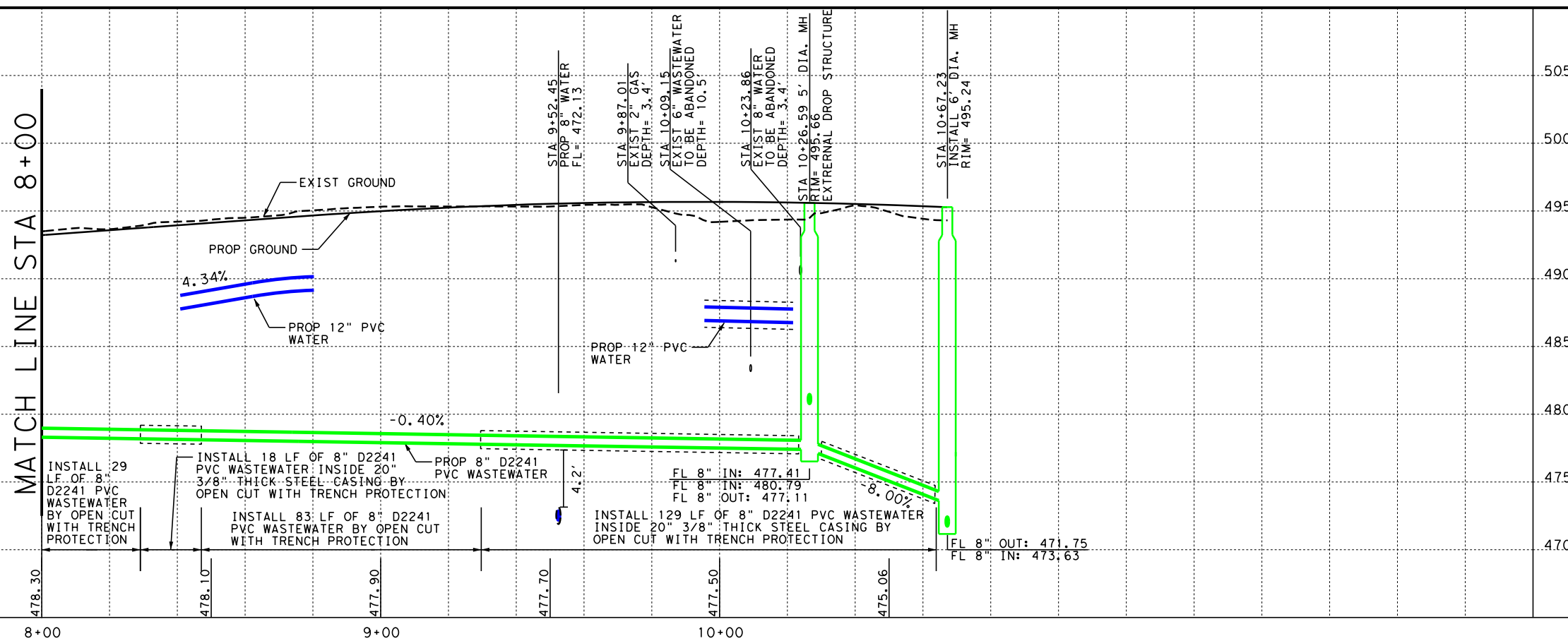
NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "01" PLAN AND PROFILE STA 4+00 TO STA 8+00			
SHEET 2 OF 3			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1124	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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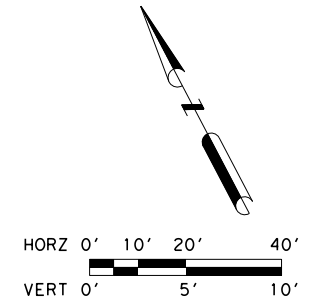
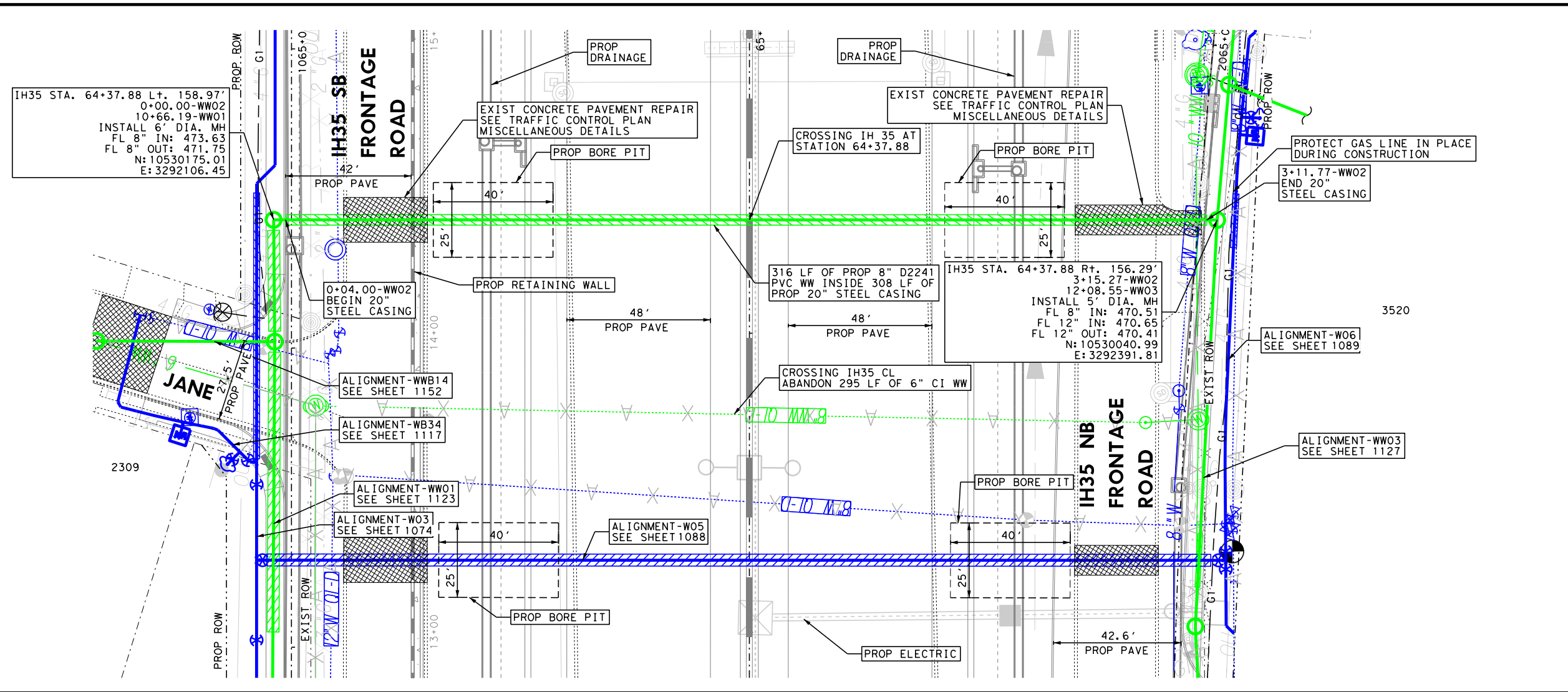
NOTES:

- CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
- SEE SHEET 1056 & 1057 FOR SUE LEGEND.
- MANHOLE GRADE RING TO BE INSTALLED 6" BELOW PROPOSED GRADE. MANHOLE FRAME AND COVER TO BE ADJUSTED TO PROPOSED GRADE WHEN PROPOSED GRADE IS CONSTRUCTED. SEE CITY OF WACO DETAILS S-5 & S-6.
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- CONTRACTOR SHALL CCTV ALL EXISTING WASTEWATER TO BE RELOCATED. ALL SERVICES FOUND THROUGH CCTV SHALL BE REESTABLISHED.
- WASTEWATER MANHOLE COVERS SHALL WEIGHT AT LEAST 175LB AND BE DESIGNED FOR HS-20 LOADING.
- ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
- EXISTING WASTEWATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.

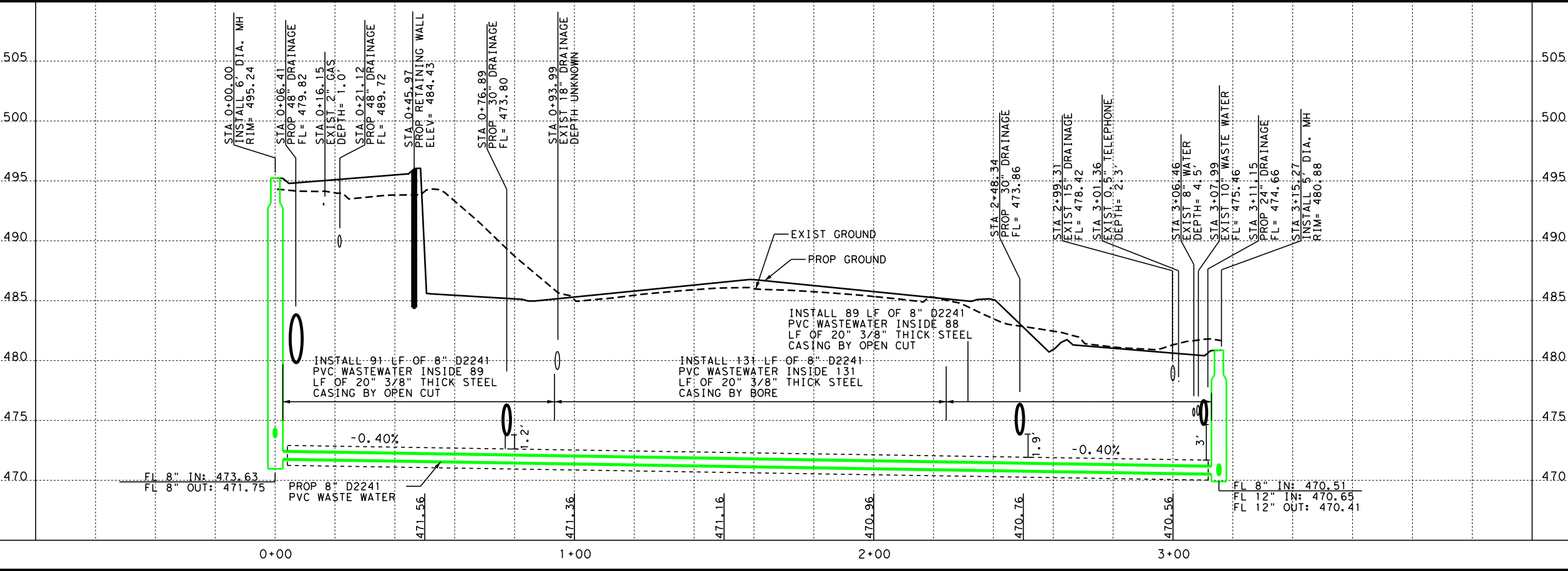


NO.	DATE	REVISION	APPROVED
			 07/17/2024
 TEXAS DEPARTMENT OF TRANSPORTATION			
 LINA T. RAMEY & ASSOCIATES, INC. 3320 Belt Line Rd Farmers Branch, Texas 75234 Firm Registration No. F-782			
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "01" PLAN AND PROFILE STA 8+00 TO STA 10+67			
			SHEET 3 OF 3
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1125	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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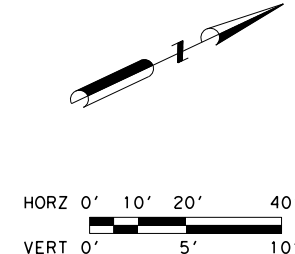
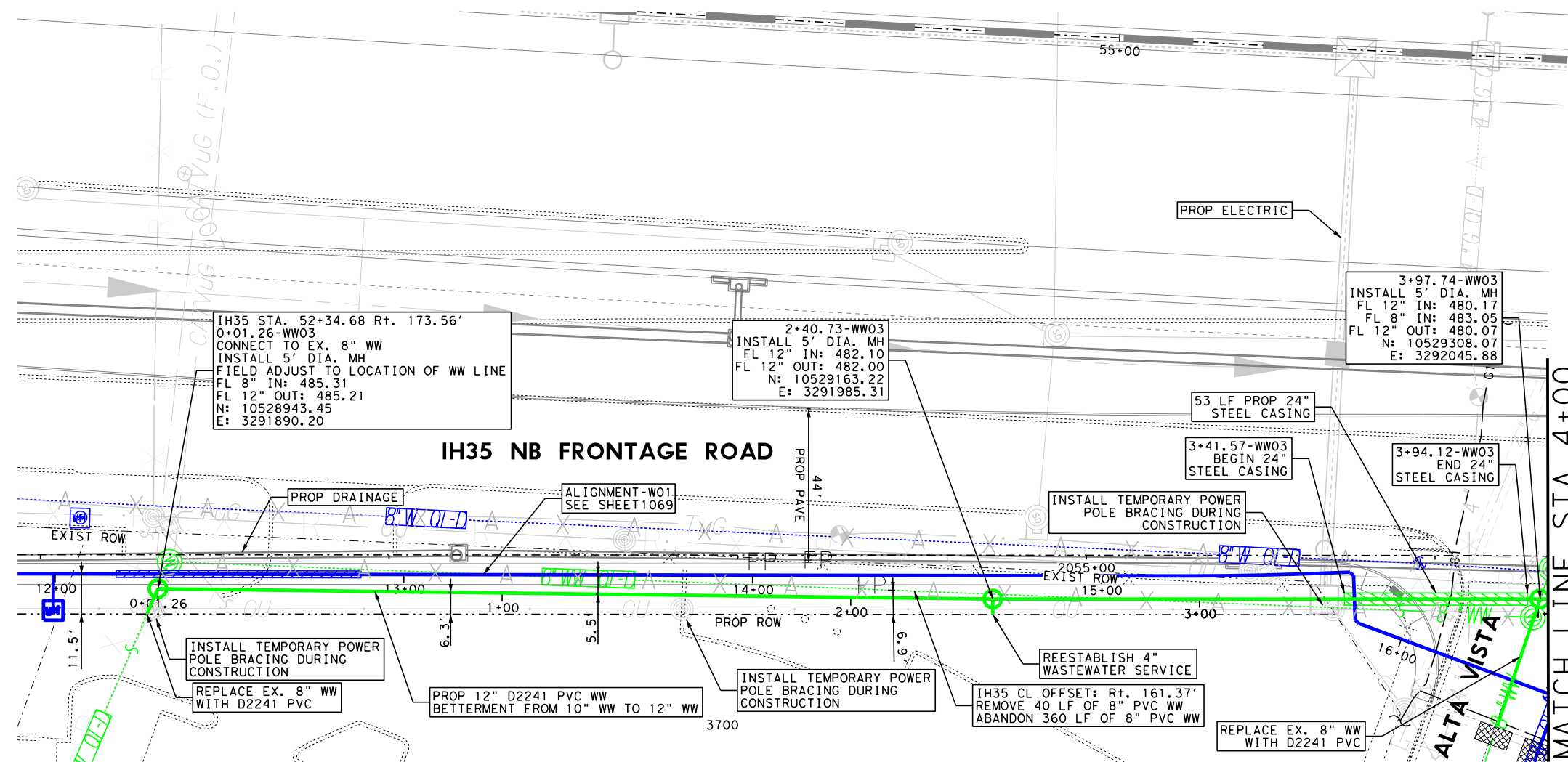


- NOTES:
1. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 3. MANHOLE GRADE RING TO BE INSTALLED 6" BELOW PROPOSED GRADE. MANHOLE FRAME AND COVER TO BE ADJUSTED TO PROPOSED GRADE WHEN PROPOSED GRADE IS CONSTRUCTED. SEE CITY OF WACO DETAILS S-5 & S-6.
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 6. WASTEWATER MANHOLE COVERS SHALL WEIGHT AT LEAST 175LB AND BE DESIGNED FOR HS-20 LOADING.
 7. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 8. EXISTING WASTEWATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT PERPENDICULARLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.

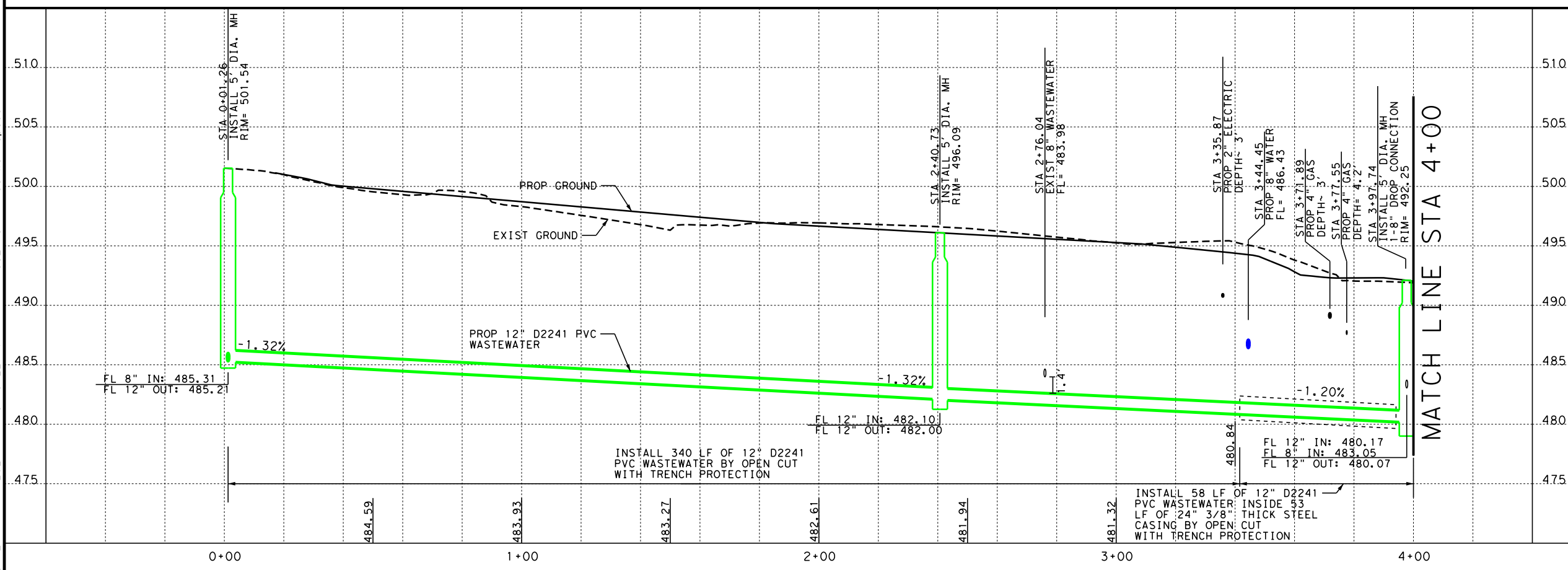


NO.	DATE	REVISION	APPROVED
			07/17/2024
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "02" PLAN AND PROFILE STA 0+00 TO STA 3+15			
SHEET 1 OF 1			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1126	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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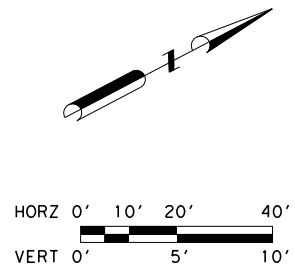
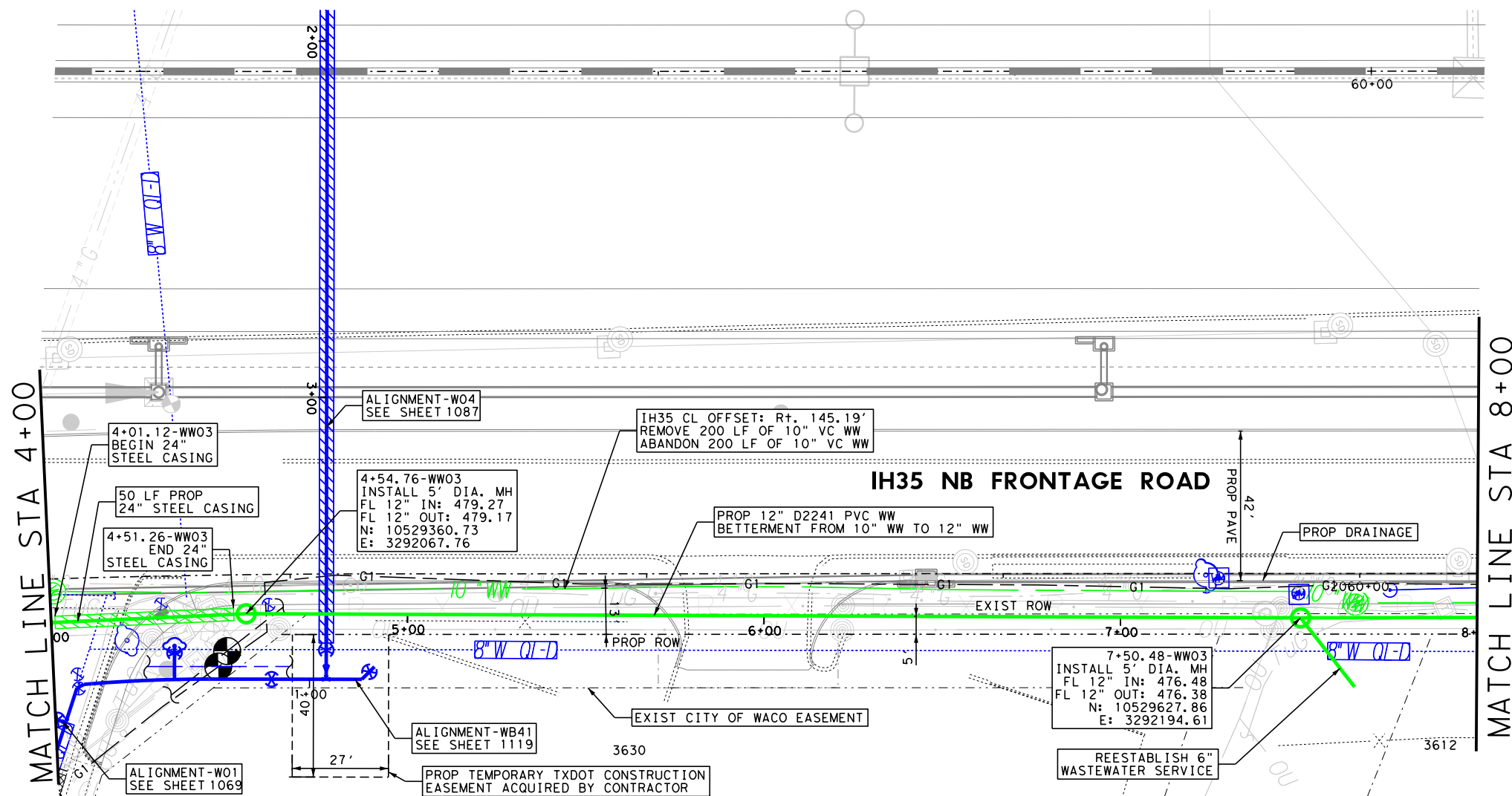


- NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 - SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 - MANHOLE GRADE RING TO BE INSTALLED 6" BELOW PROPOSED GRADE. MANHOLE FRAME AND COVER TO BE ADJUSTED TO PROPOSED GRADE WHEN PROPOSED GRADE IS CONSTRUCTED. SEE CITY OF WACO DETAILS S-5 & S-6.
 - EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 - CONTRACTOR SHALL CCTV ALL EXISTING WASTEWATER TO BE RELOCATED. ALL SERVICES FOUND THROUGH CCTV SHALL BE REESTABLISHED.
 - WASTEWATER MANHOLE COVERS SHALL WEIGHT AT LEAST 175LB AND BE DESIGNED FOR HS-20 LOADING.
 - ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 - EXISTING WASTEWATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.

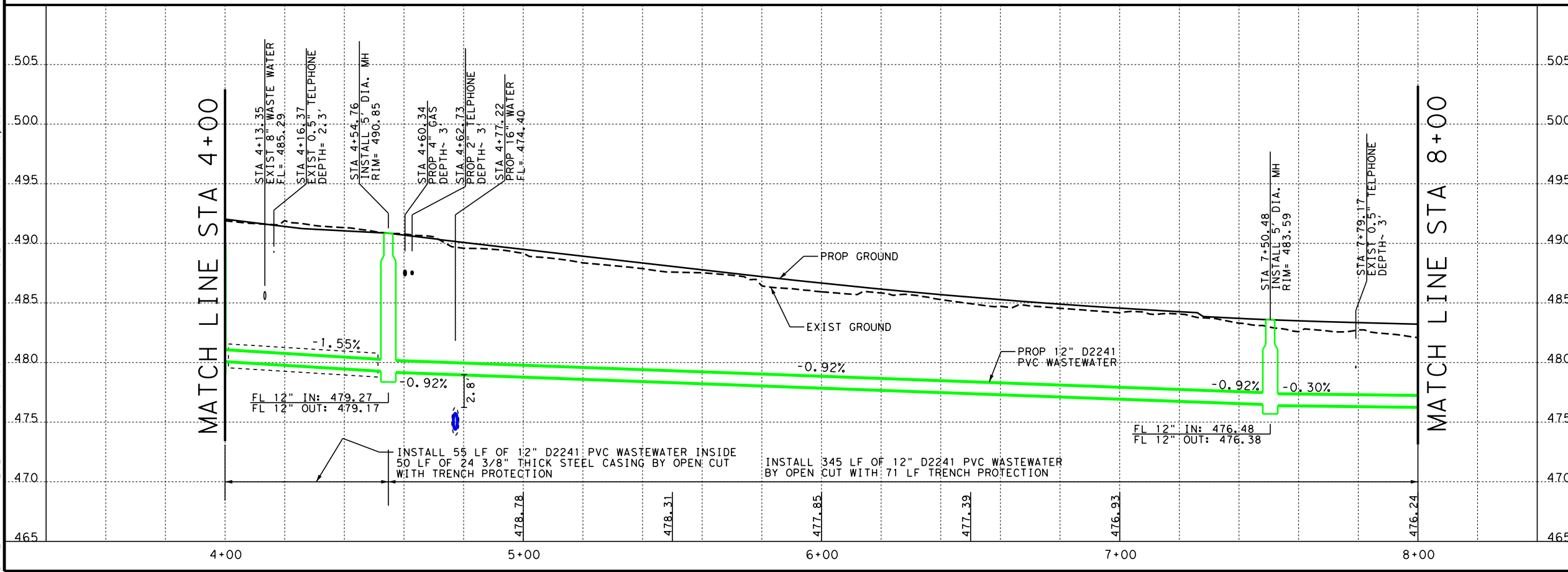


NO.	DATE	REVISION	APPROVED
			 07/17/2024
 TEXAS DEPARTMENT OF TRANSPORTATION			
 LINA T. RAMEY & ASSOCIATES, INC. 3320 Belt Line Rd Farmers Branch, Texas 75234 Firm Registration No. F-782			
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "03" PLAN AND PROFILE STA 0+00 TO STA 4+00			
SHEET 1 OF 4			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1127	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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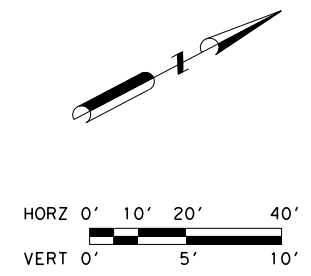
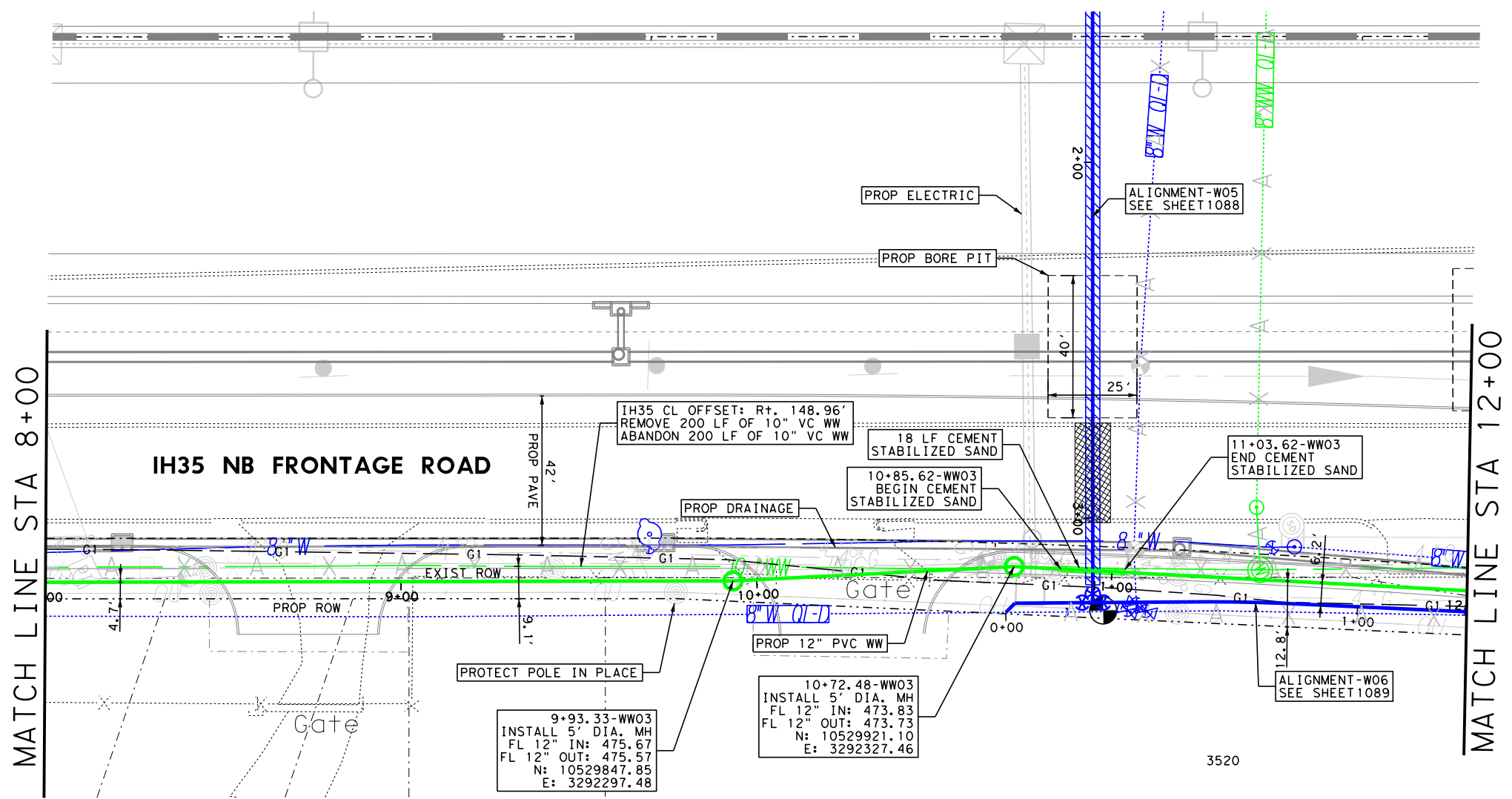


- NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 - SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 - MANHOLE GRADE RING TO BE INSTALLED 6" BELOW PROPOSED GRADE. MANHOLE FRAME AND COVER TO BE ADJUSTED TO PROPOSED GRADE WHEN PROPOSED GRADE IS CONSTRUCTED. SEE CITY OF WACO DETAILS S-5 & S-6.
 - EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 - CONTRACTOR SHALL CCTV ALL EXISTING WASTEWATER TO BE RELOCATED. ALL SERVICES FOUND THROUGH CCTV SHALL BE REESTABLISHED.
 - WASTEWATER MANHOLE COVERS SHALL WEIGHT AT LEAST 175LB AND BE DESIGNED FOR HS-20 LOADING.
 - ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 - EXISTING WASTEWATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.

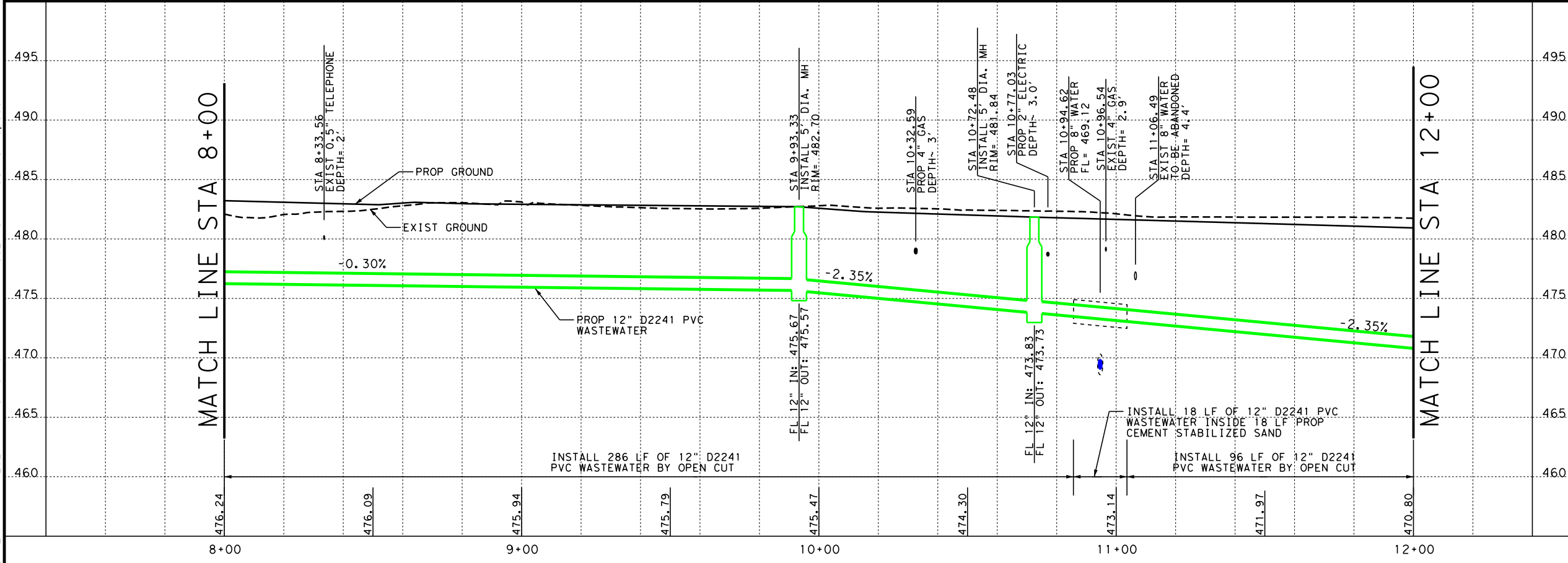


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "03" PLAN AND PROFILE STA 4+00 TO STA 8+00			
SHEET 2 OF 4			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1128	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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- NOTES:**
1. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 3. MANHOLE GRADE RING TO BE INSTALLED 6" BELOW PROPOSED GRADE. MANHOLE FRAME AND COVER TO BE ADJUSTED TO PROPOSED GRADE WHEN PROPOSED GRADE IS CONSTRUCTED. SEE CITY OF WACO DETAILS S-5 & S-6.
 4. EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 5. CONTRACTOR SHALL CCTV ALL EXISTING WASTEWATER TO BE RELOCATED. ALL SERVICES FOUND THROUGH CCTV SHALL BE REESTABLISHED.
 6. WASTEWATER MANHOLE COVERS SHALL WEIGHT AT LEAST 175LB AND BE DESIGNED FOR HS-20 LOADING.
 7. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 8. EXISTING WASTEWATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.



NO.	DATE	REVISION	APPROVED

07/17/2024

TEXAS DEPARTMENT OF TRANSPORTATION

LINA T. RAMEY & ASSOCIATES, INC.
 3320 Belt Line Rd
 Farmers Branch, Texas 75234
 Firm Registration No. F-782

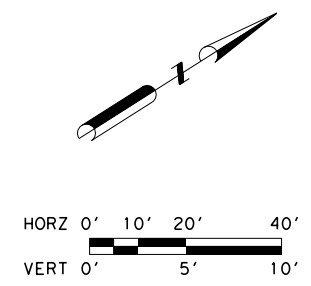
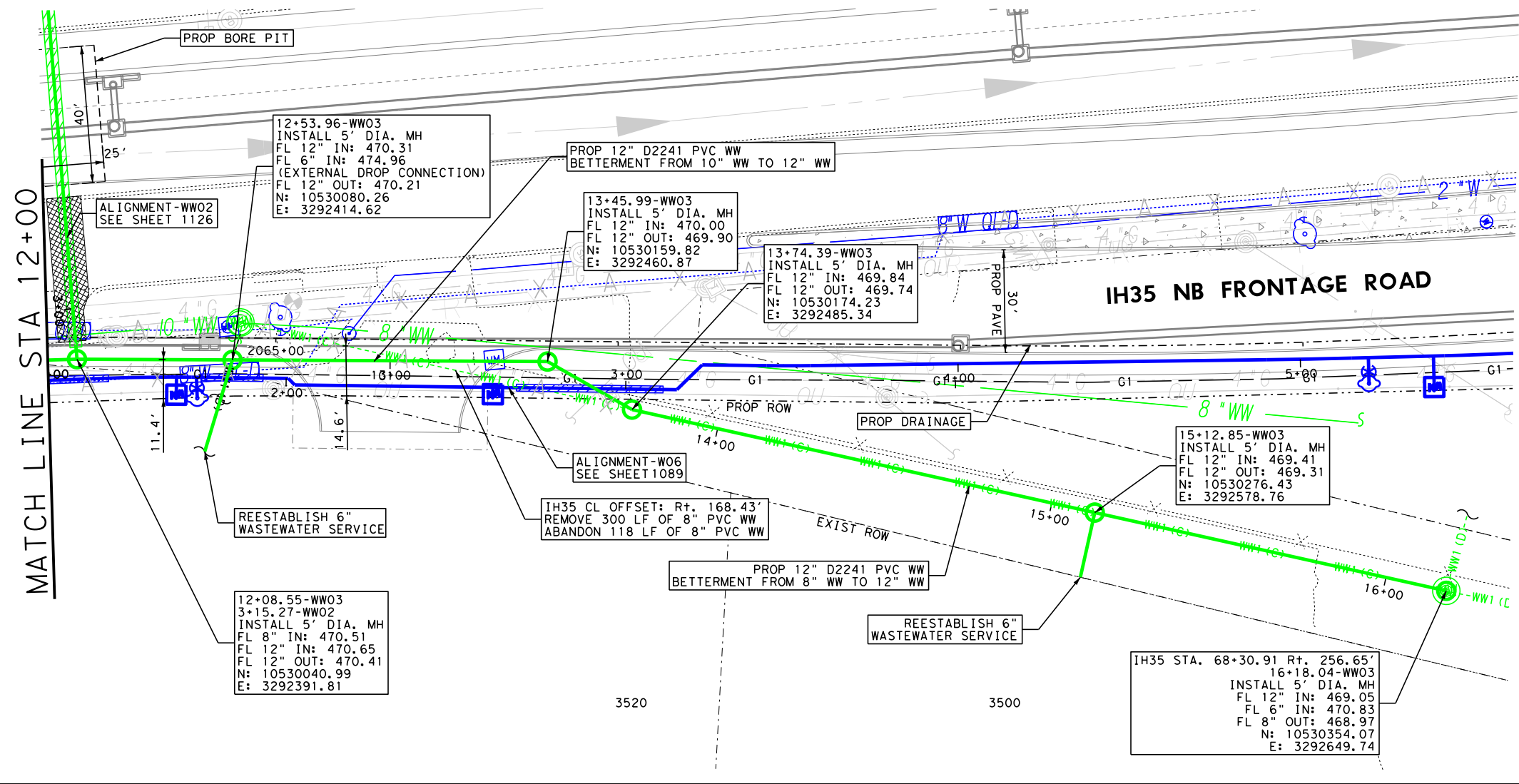
IH 35 FROM S LP 340 TO 12TH ST

WASTE WATER LINE "03"
 PLAN AND PROFILE
 STA 8+00 TO STA 12+00

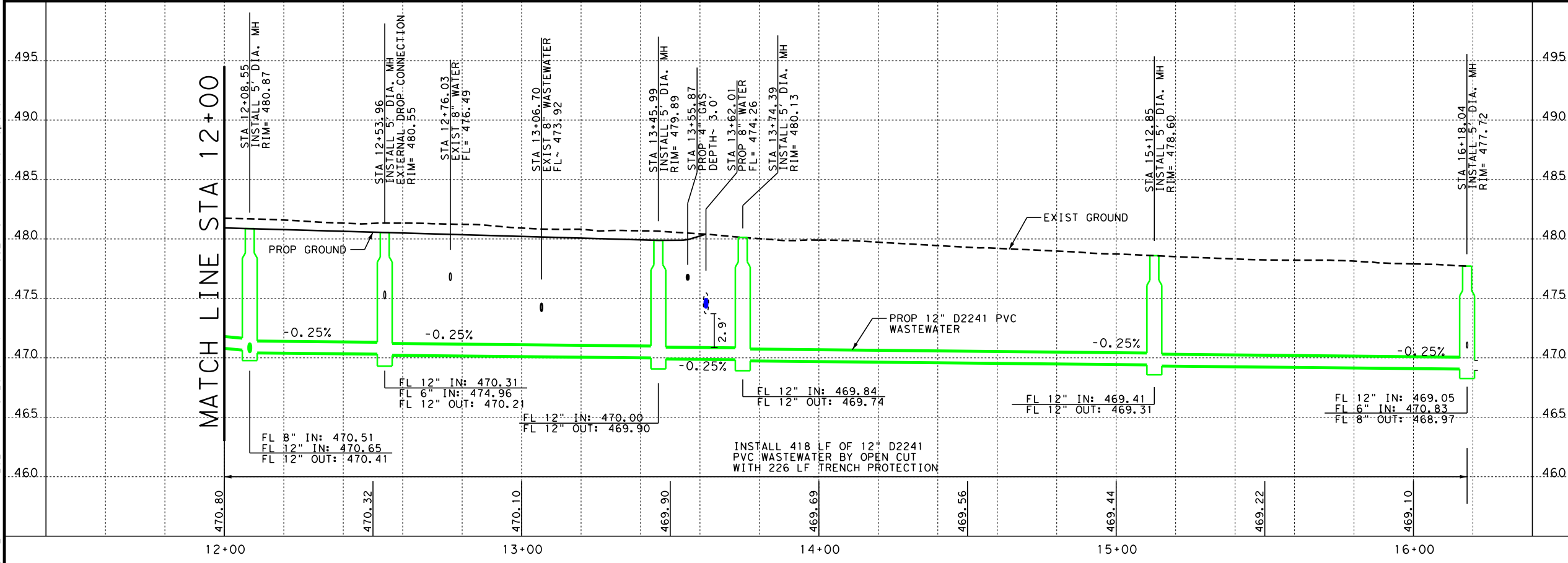
SHEET 3 OF 4

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1129	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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- NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 - SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 - MANHOLE GRADE RING TO BE INSTALLED 6" BELOW PROPOSED GRADE. MANHOLE FRAME AND COVER TO BE ADJUSTED TO PROPOSED GRADE WHEN PROPOSED GRADE IS CONSTRUCTED. SEE CITY OF WACO DETAILS S-5 & S-6.
 - EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 - CONTRACTOR SHALL CCTV ALL EXISTING WASTEWATER TO BE RELOCATED. ALL SERVICES FOUND THROUGH CCTV SHALL BE REESTABLISHED.
 - WASTEWATER MANHOLE COVERS SHALL WEIGHT AT LEAST 175LB AND BE DESIGNED FOR HS-20 LOADING.
 - ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 - EXISTING WASTEWATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.
 - BYPASS PUMPING OF THE EXISTING MANHOLE NORTHWEST OF STA 12+53.96 TO BE USED FOR CONSTRUCTION OF THE PROPOSED LINE AFTER STA 13+00.00.



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LTRA LINA T. RAMEY & ASSOCIATES, INC.
3320 Belt Line Rd
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Firm Registration No. F-782

IH 35 FROM S LP 340 TO 12TH ST

WASTE WATER LINE "03"
PLAN AND PROFILE
STA 12+00 TO STA 16+18

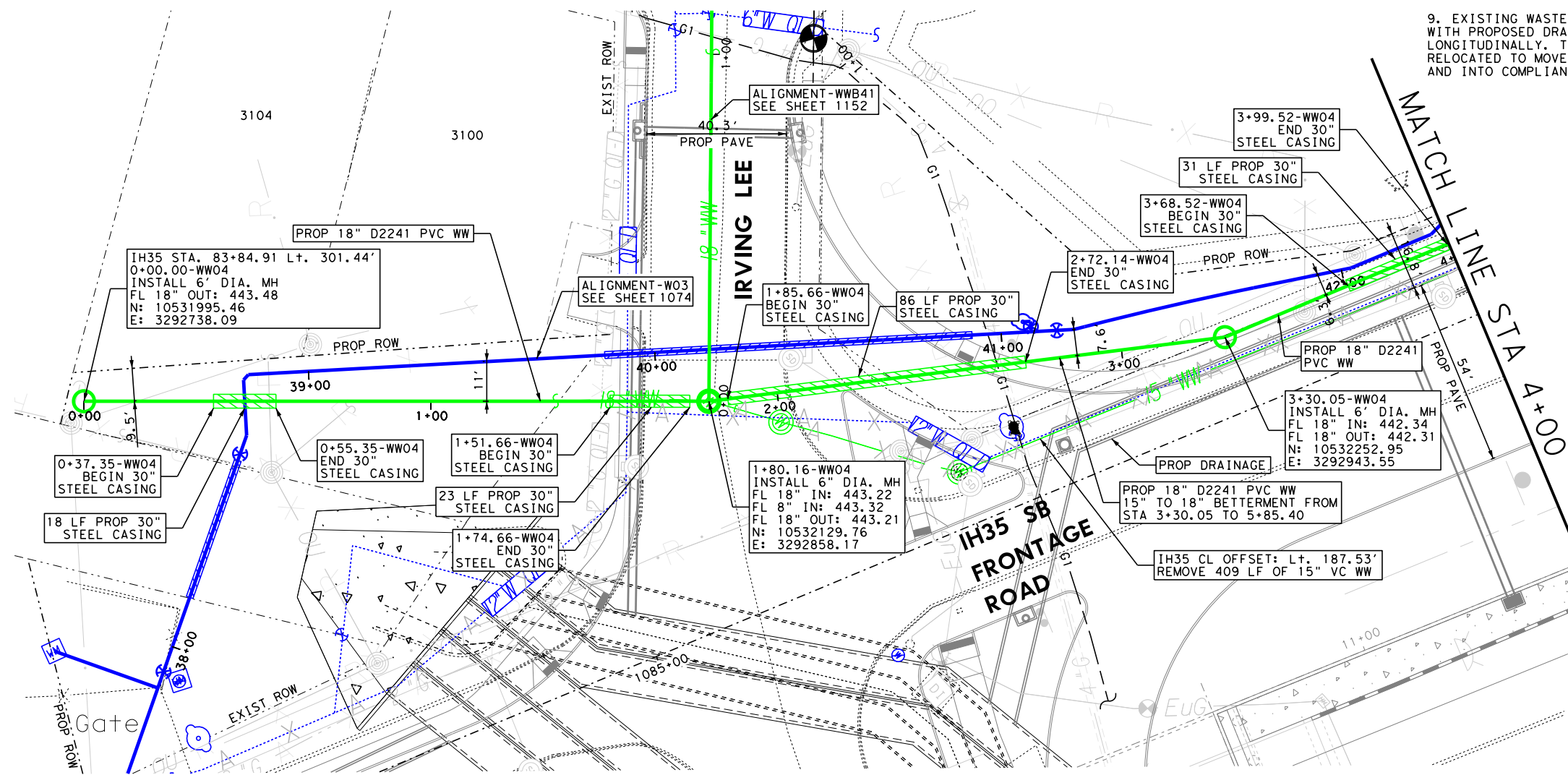
SHEET 4 OF 4

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
6	SEE TITLE SHEET	1130

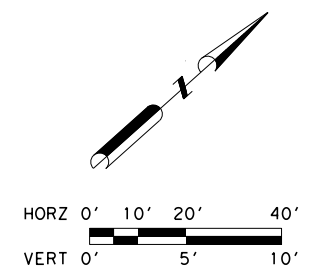
STATE	DIST.	COUNTY
TEXAS	WACO	MCLENNAN

CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

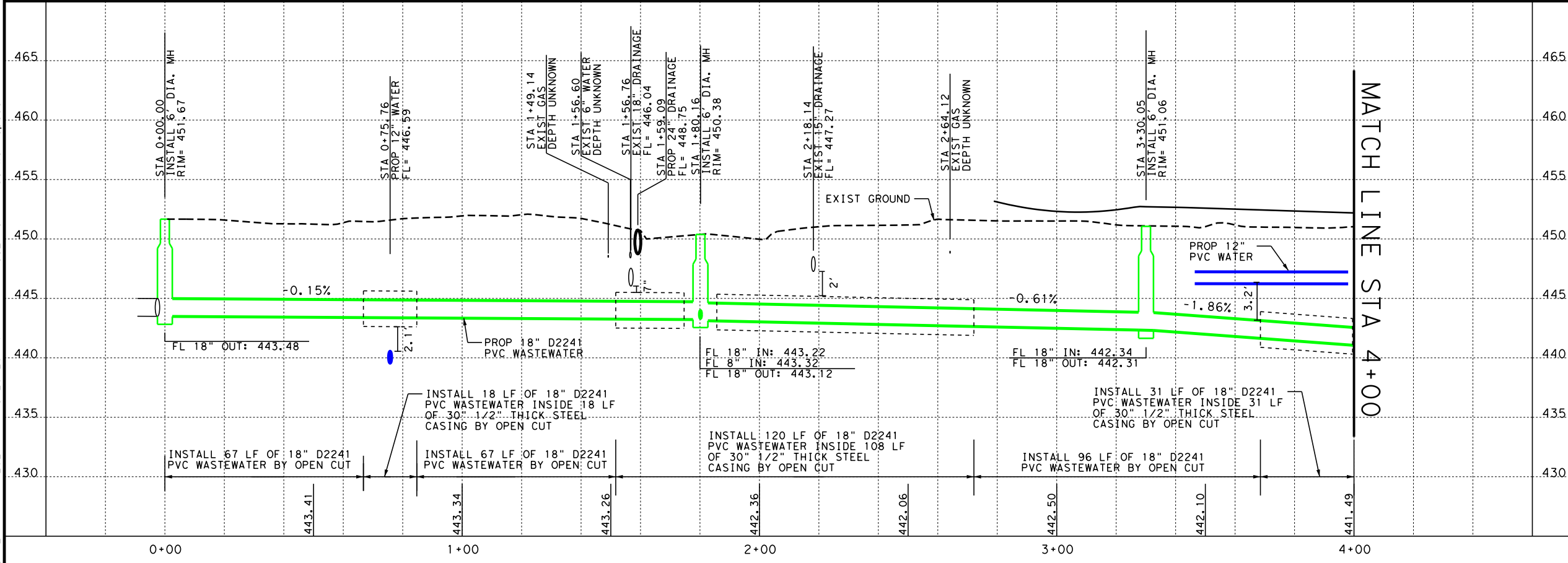
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9. EXISTING WASTEWATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.



- NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 - SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 - MANHOLE GRADE RING TO BE INSTALLED 6" BELOW PROPOSED GRADE. MANHOLE FRAME AND COVER TO BE ADJUSTED TO PROPOSED GRADE WHEN PROPOSED GRADE IS CONSTRUCTED. SEE CITY OF WACO DETAILS S-5 & S-6.
 - EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 - CONTRACTOR SHALL CCTV ALL EXISTING WASTEWATER TO BE RELOCATED. ALL SERVICES FOUND THROUGH CCTV SHALL BE REESTABLISHED.
 - WASTEWATER MANHOLE COVERS SHALL WEIGHT AT LEAST 175LB AND BE DESIGNED FOR HS-20 LOADING.
 - ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 - BYPASS PUMPING OF THE EXISTING MANHOLE SOUTHWEST OF STA 0+00.00 TO BE USED FOR CONSTRUCTION OF THE PROPOSED LINE BEFORE STA 1+80.16.
 - WASTEWATER MANHOLE CONCRETE PAD PER CITY OF WACO DETAIL S-13 TO BE INTEGRATED AND DOWELLED WITH SIDEWALK WHERE THE MANHOLE BISECTS THE SIDEWALK.



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3320 Belt Line Rd
Farmers Branch, Texas 75234
Firm Registration No. F-782

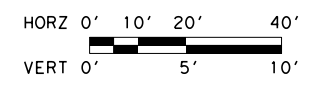
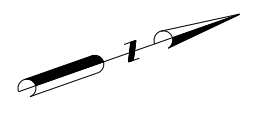
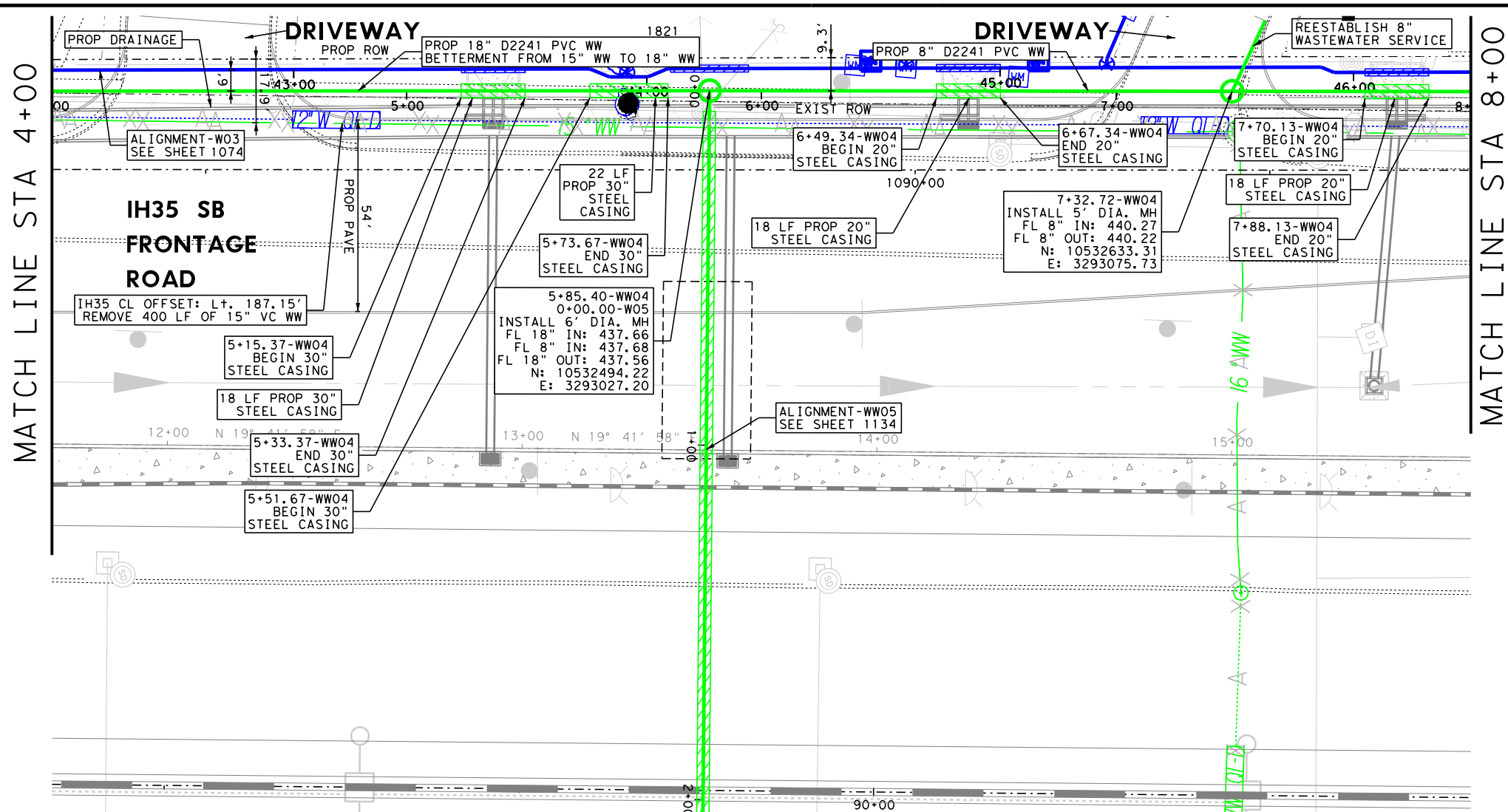
IH 35 FROM S LP 340 TO 12TH ST

WASTE WATER LINE "04"
PLAN AND PROFILE
STA 0+00 TO STA 4+00

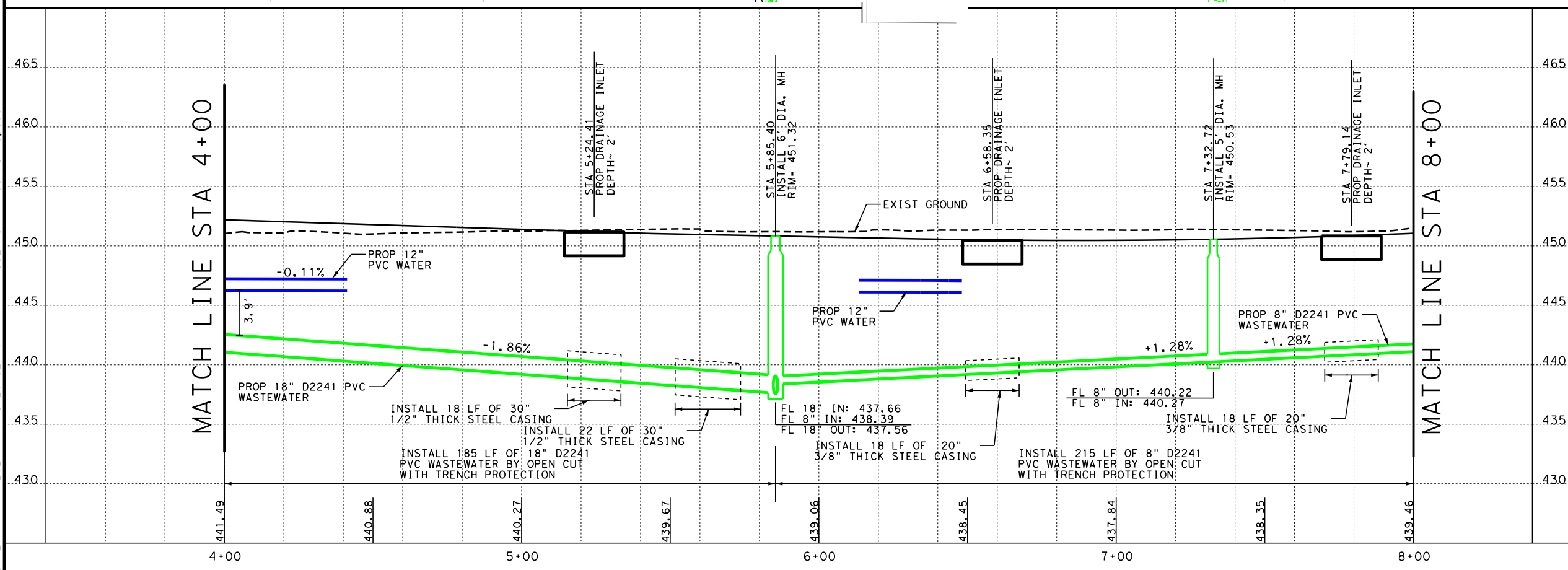
SHEET 1 OF 3

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
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STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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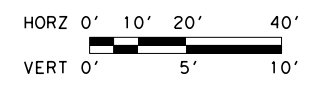
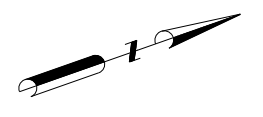
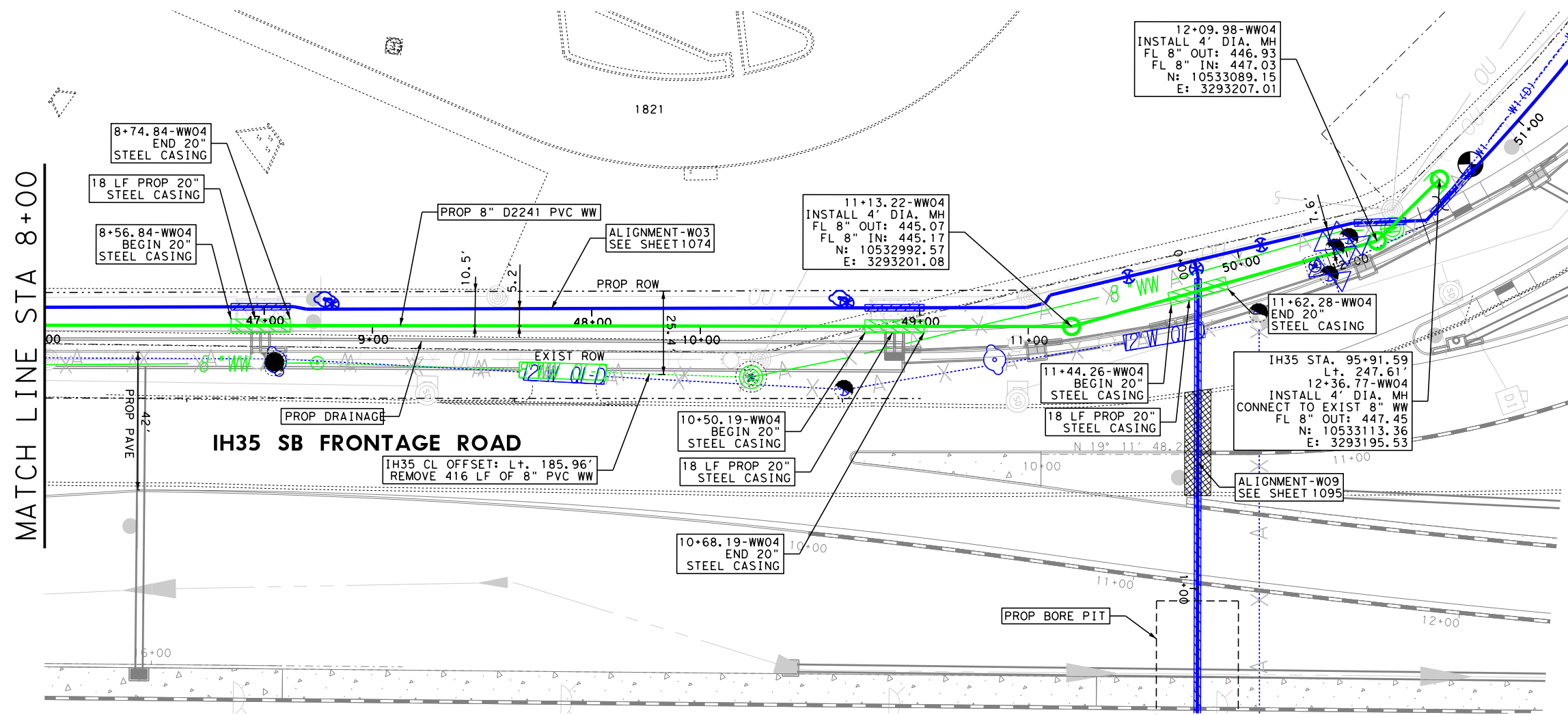


- NOTES:**
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 - SEE SHEET 1056 & 1057 FOR SUE LEGEND.
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 - WASTEWATER MANHOLE COVERS SHALL WEIGHT AT LEAST 175LB AND BE DESIGNED FOR HS-20 LOADING.
 - ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 - EXISTING WASTEWATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.

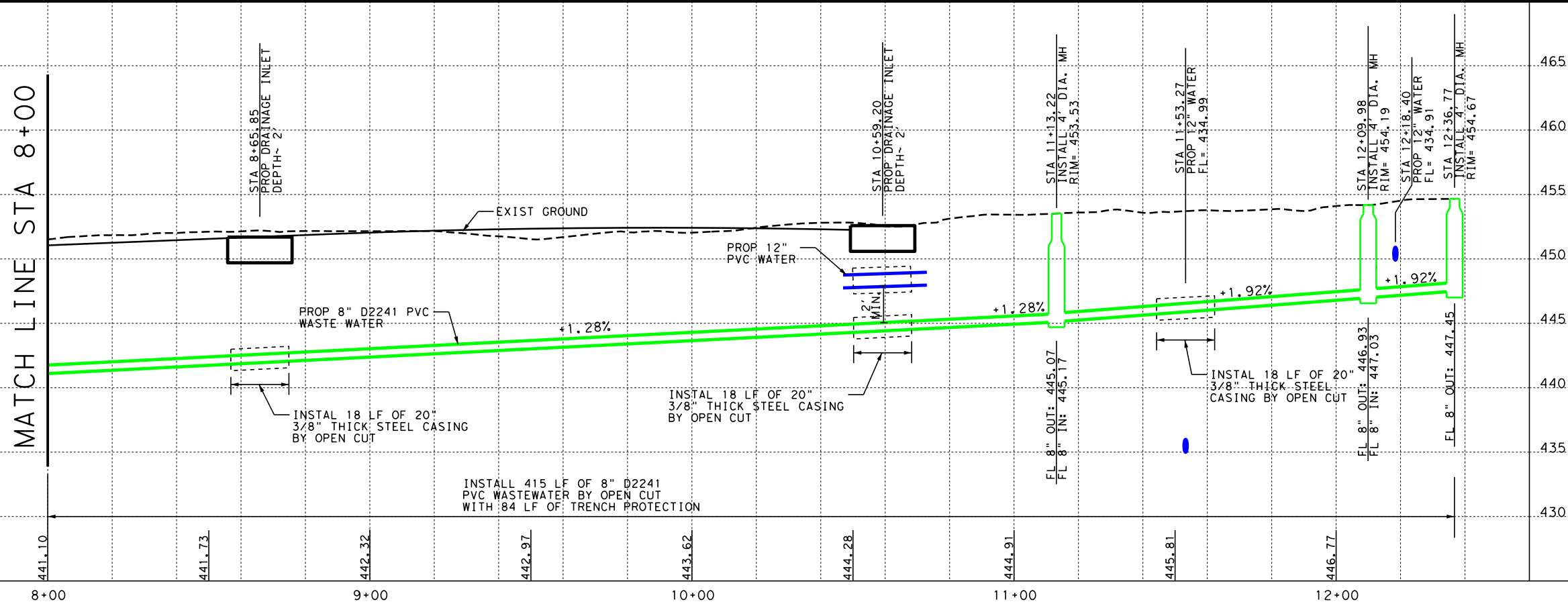


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "04" PLAN AND PROFILE STA 4+00 TO STA 8+00			
SHEET 2 OF 3			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1132	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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- NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 - SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 - MANHOLE GRADE RING TO BE INSTALLED 6" BELOW PROPOSED GRADE. MANHOLE FRAME AND COVER TO BE ADJUSTED TO PROPOSED GRADE WHEN PROPOSED GRADE IS CONSTRUCTED. SEE CITY OF WACO DETAILS S-5 & S-6.
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 - EXISTING WASTEWATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.
 - BYPASS PUMPING OF THE EXISTING MANHOLE NORTH OF STA 12+09.98 TO BE USED FOR CONSTRUCTION OF THE PROPOSED LINE AFTER STA 10+84.70.



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IH 35 FROM S LP 340 TO 12TH ST

WASTE WATER LINE "04"
 PLAN AND PROFILE
 STA 8+00 TO STA 12+37

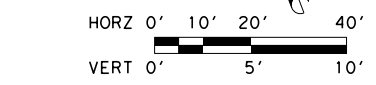
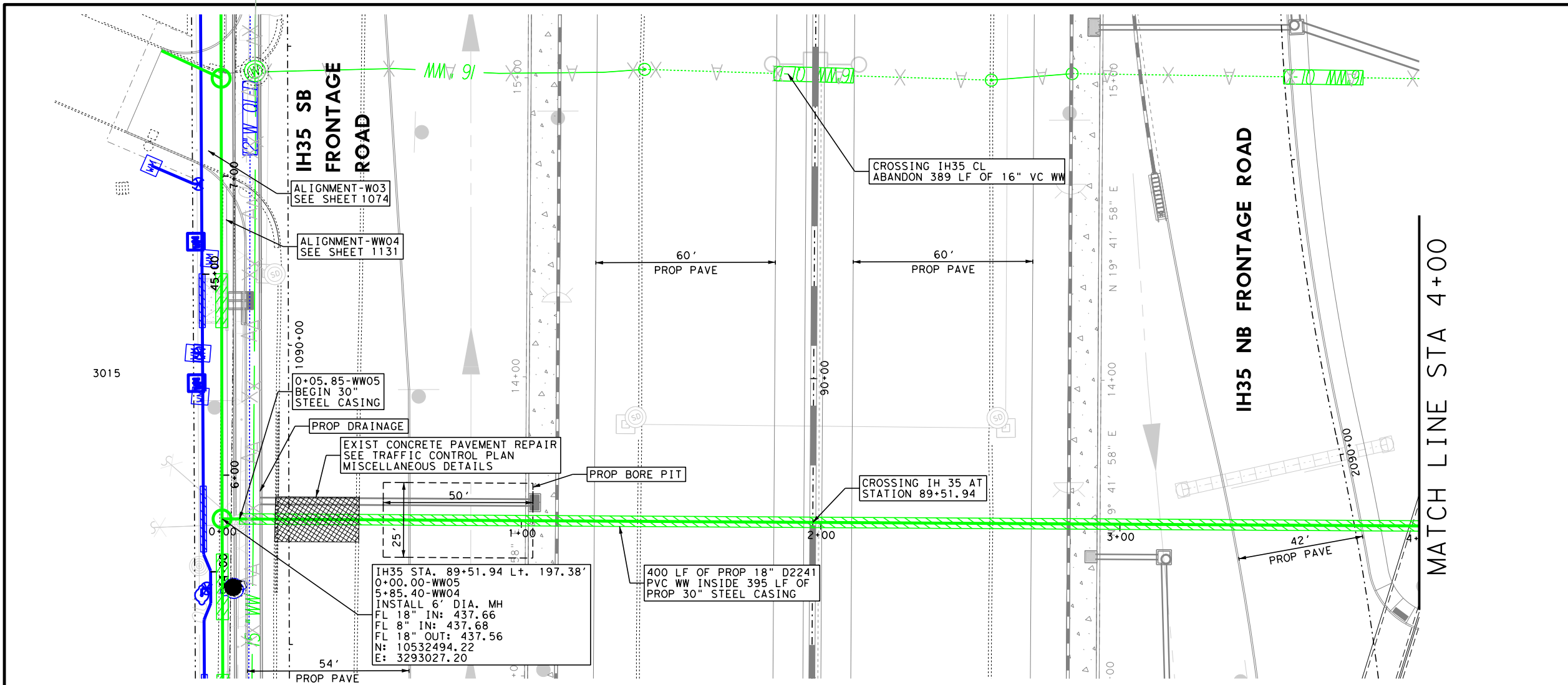
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FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
6	SEE TITLE SHEET	1133

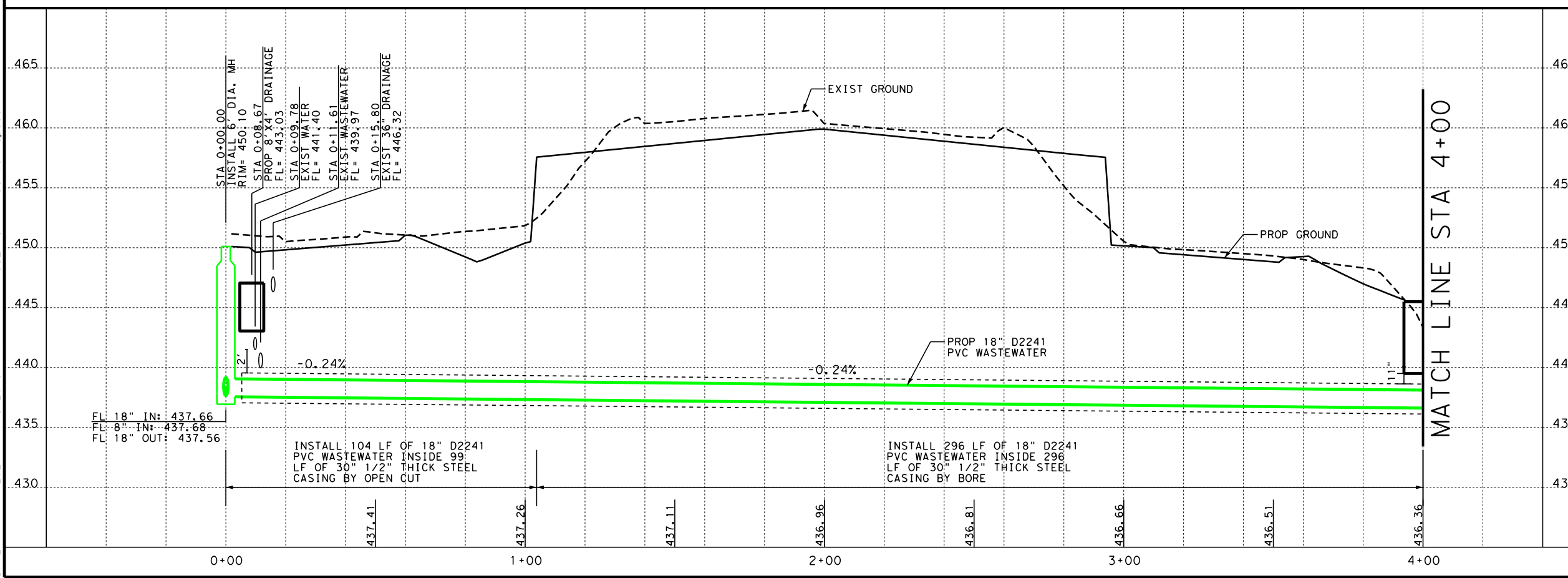
STATE	DIST.	COUNTY
TEXAS	WACO	MCLENNAN

CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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- NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 - SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 - MANHOLE GRADE RING TO BE INSTALLED 6" BELOW PROPOSED GRADE. MANHOLE FRAME AND COVER TO BE ADJUSTED TO PROPOSED GRADE WHEN PROPOSED GRADE IS CONSTRUCTED. SEE CITY OF WACO DETAILS S-5 & S-6.
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 3320 Belt Line Rd
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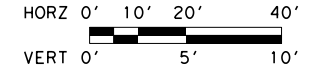
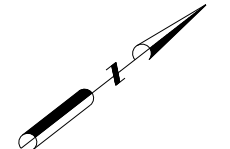
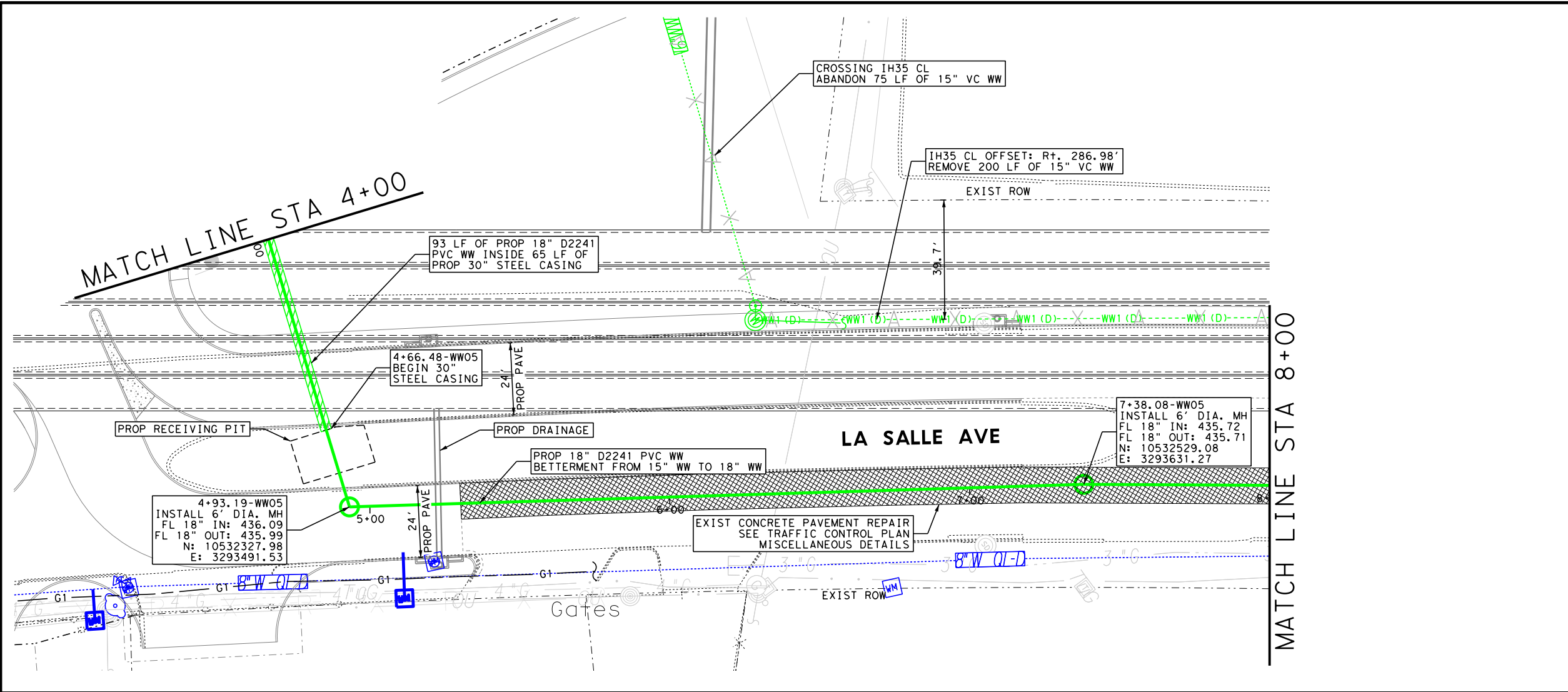
IH 35 FROM S LP 340 TO 12TH ST

WASTE WATER LINE "05"
 PLAN AND PROFILE
 STA 0+00 TO STA 4+00

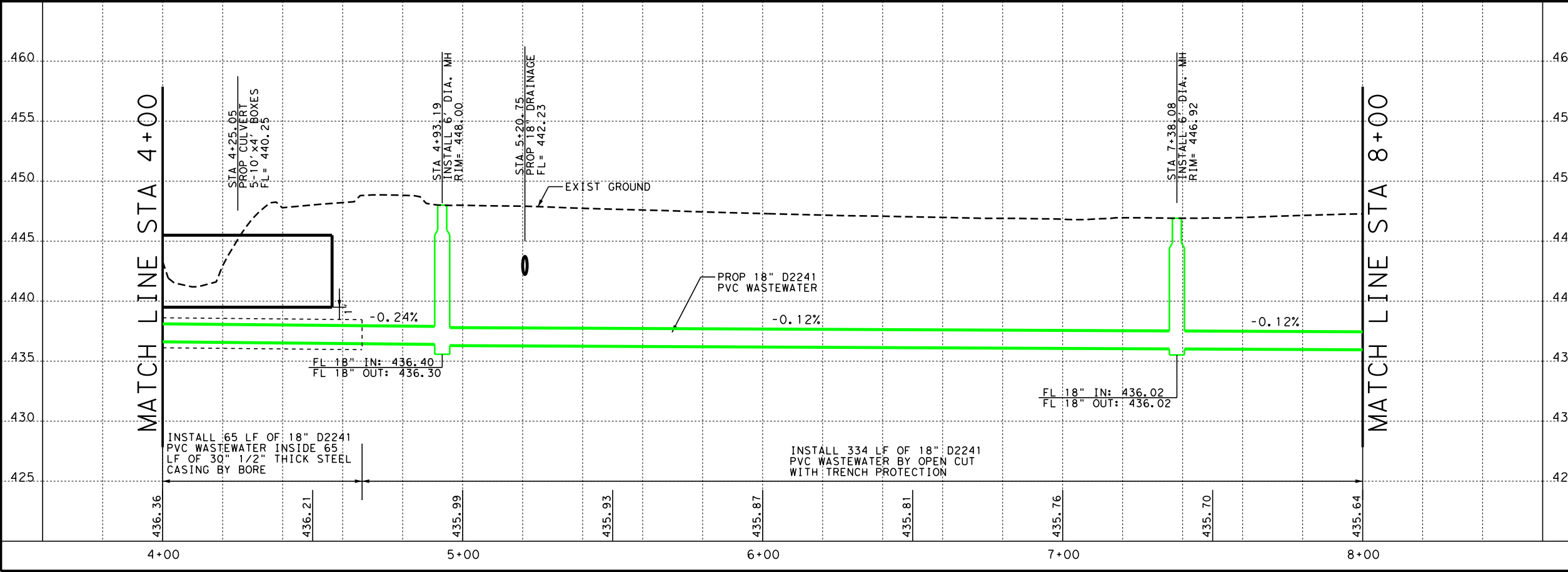
SHEET 1 OF 3

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
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STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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- NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 - SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 - MANHOLE GRADE RING TO BE INSTALLED 6" BELOW PROPOSED GRADE. MANHOLE FRAME AND COVER TO BE ADJUSTED TO PROPOSED GRADE WHEN PROPOSED GRADE IS CONSTRUCTED. SEE CITY OF WACO DETAILS S-5 & S-6.
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 - CONTRACTOR SHALL CCTV ALL EXISTING WASTEWATER TO BE RELOCATED. ALL SERVICES FOUND THROUGH CCTV SHALL BE REESTABLISHED.
 - WASTEWATER MANHOLE COVERS SHALL WEIGHT AT LEAST 175LB AND BE DESIGNED FOR HS-20 LOADING.
 - ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 - EXISTING WASTEWATER IS IN CONFLICT WITH PROPOSED DRAINAGE. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.



NO.	DATE	REVISION	APPROVED

MATT WOLFE
136362
07/17/2024

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3320 Belt Line Rd
Farmers Branch, Texas 75234
Firm Registration No. F-782

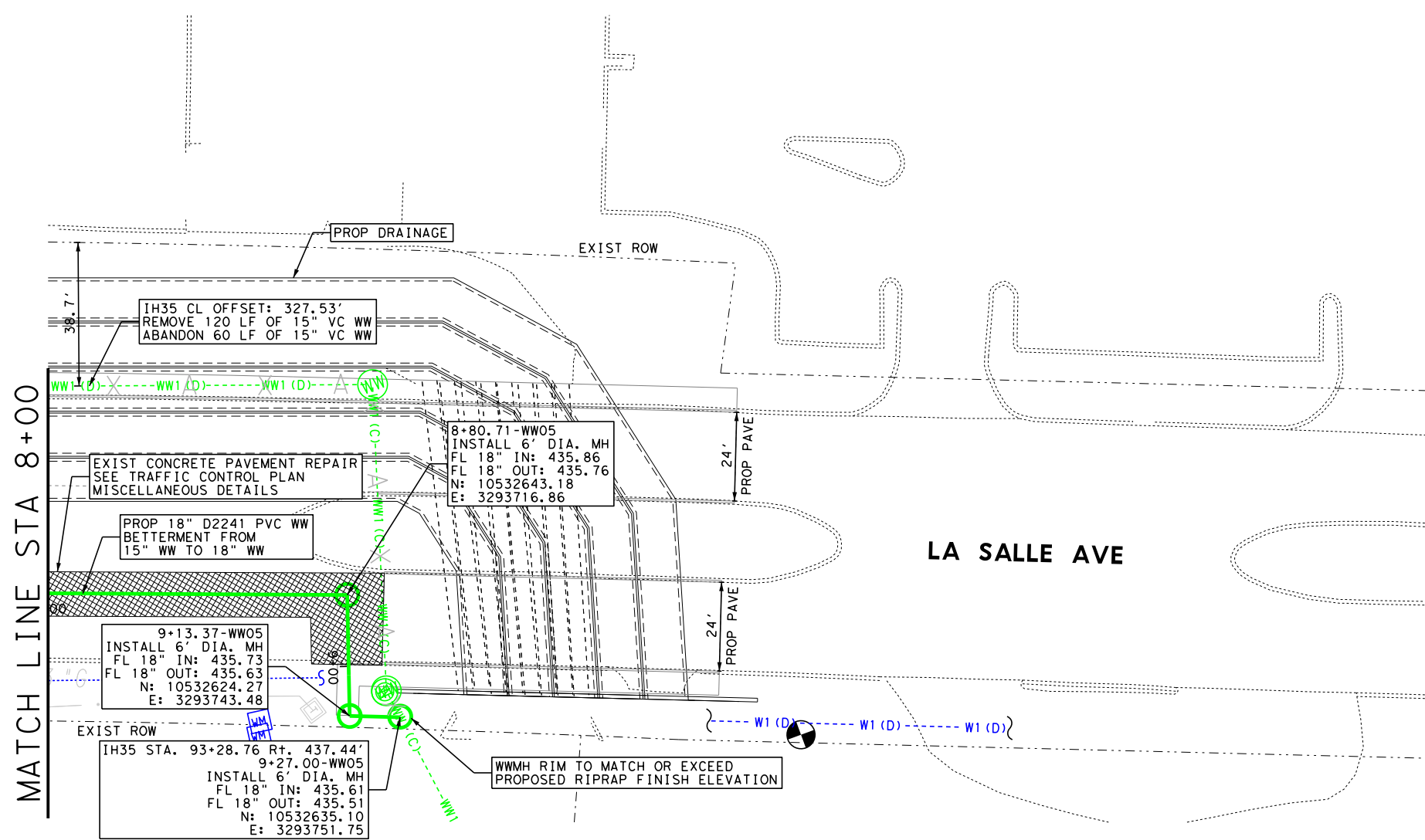
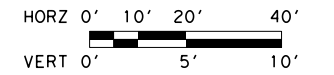
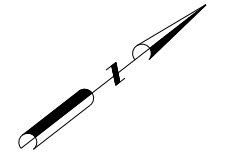
IH 35 FROM S LP 340 TO 12TH ST

**WASTE WATER LINE "05"
PLAN AND PROFILE
STA 4+00 TO STA 8+00**

SHEET 2 OF 3

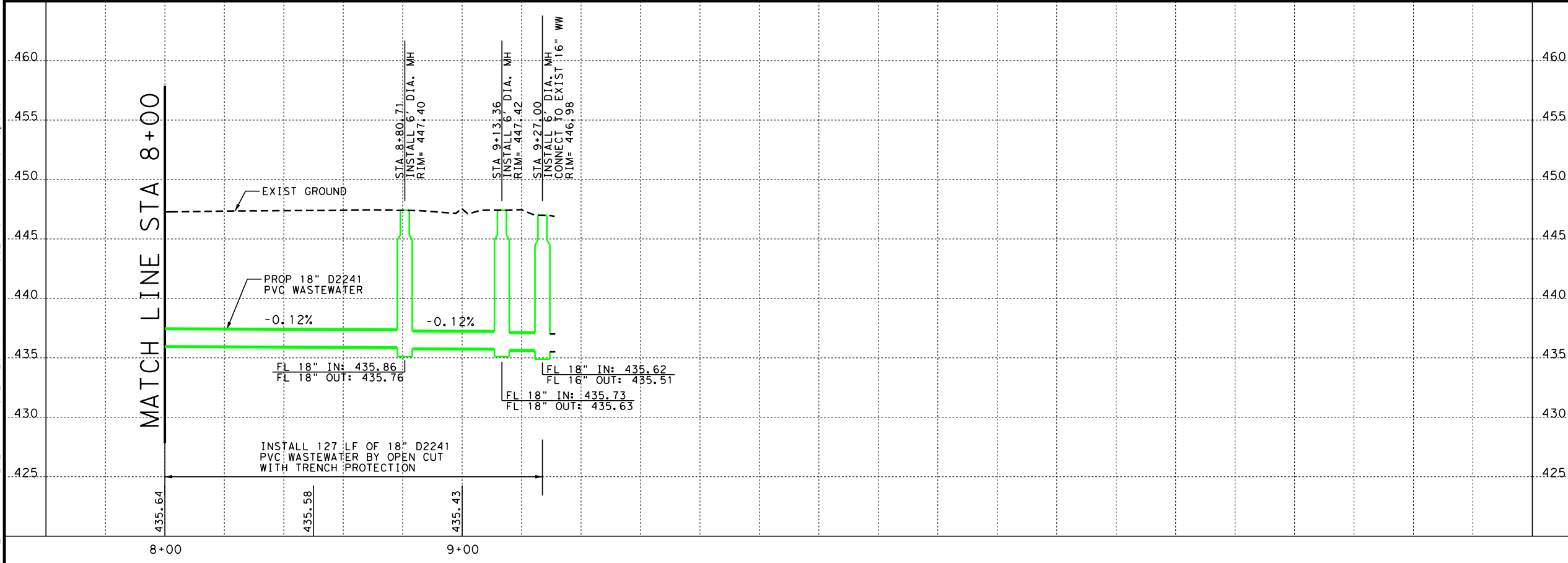
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STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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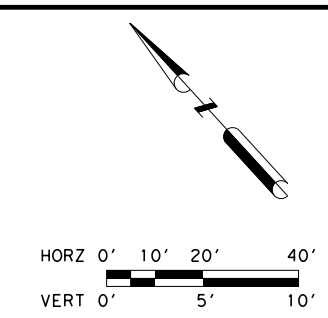
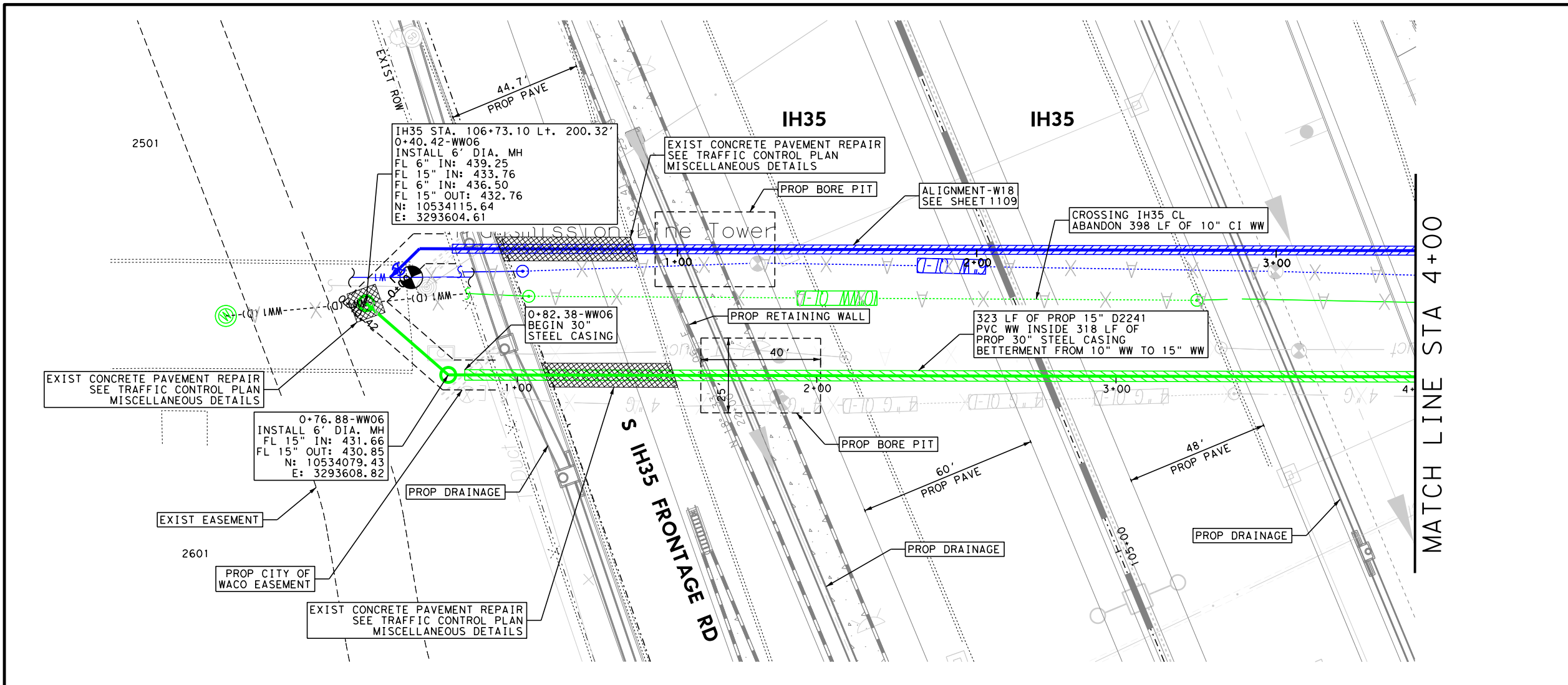
NOTES:

1. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
3. MANHOLE GRADE RING TO BE INSTALLED 6" BELOW PROPOSED GRADE. MANHOLE FRAME AND COVER TO BE ADJUSTED TO PROPOSED GRADE WHEN PROPOSED GRADE IS CONSTRUCTED. SEE CITY OF WACO DETAILS S-5 & S-6.
4. EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
5. CONTRACTOR SHALL CCTV ALL EXISTING WASTEWATER TO BE RELOCATED. ALL SERVICES FOUND THROUGH CCTV SHALL BE REESTABLISHED.
6. WASTEWATER MANHOLE COVERS SHALL WEIGHT AT LEAST 175LB AND BE DESIGNED FOR HS-20 LOADING.
7. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
8. EXISTING WASTEWATER IS IN CONFLICT WITH PROPOSED DRAINAGE LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.

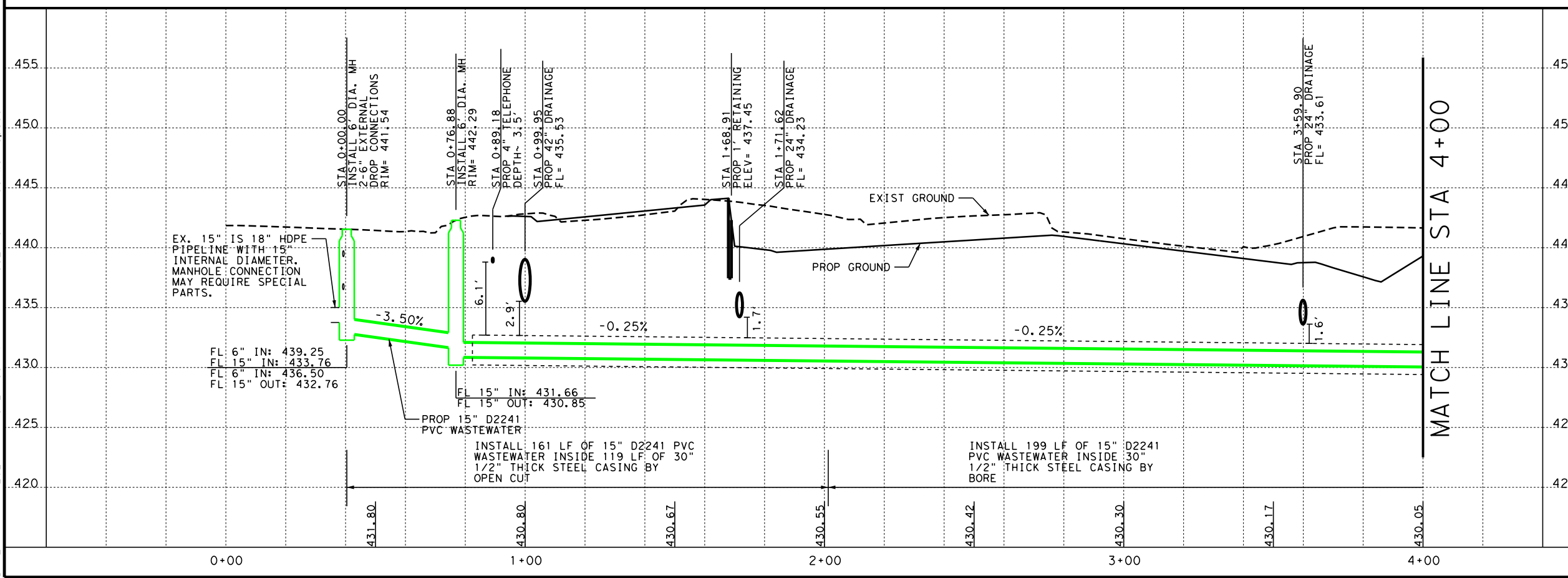


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "05" PLAN AND PROFILE STA 8+00 TO STA 9+27			
SHEET 3 OF 3			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1136	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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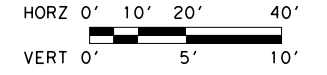
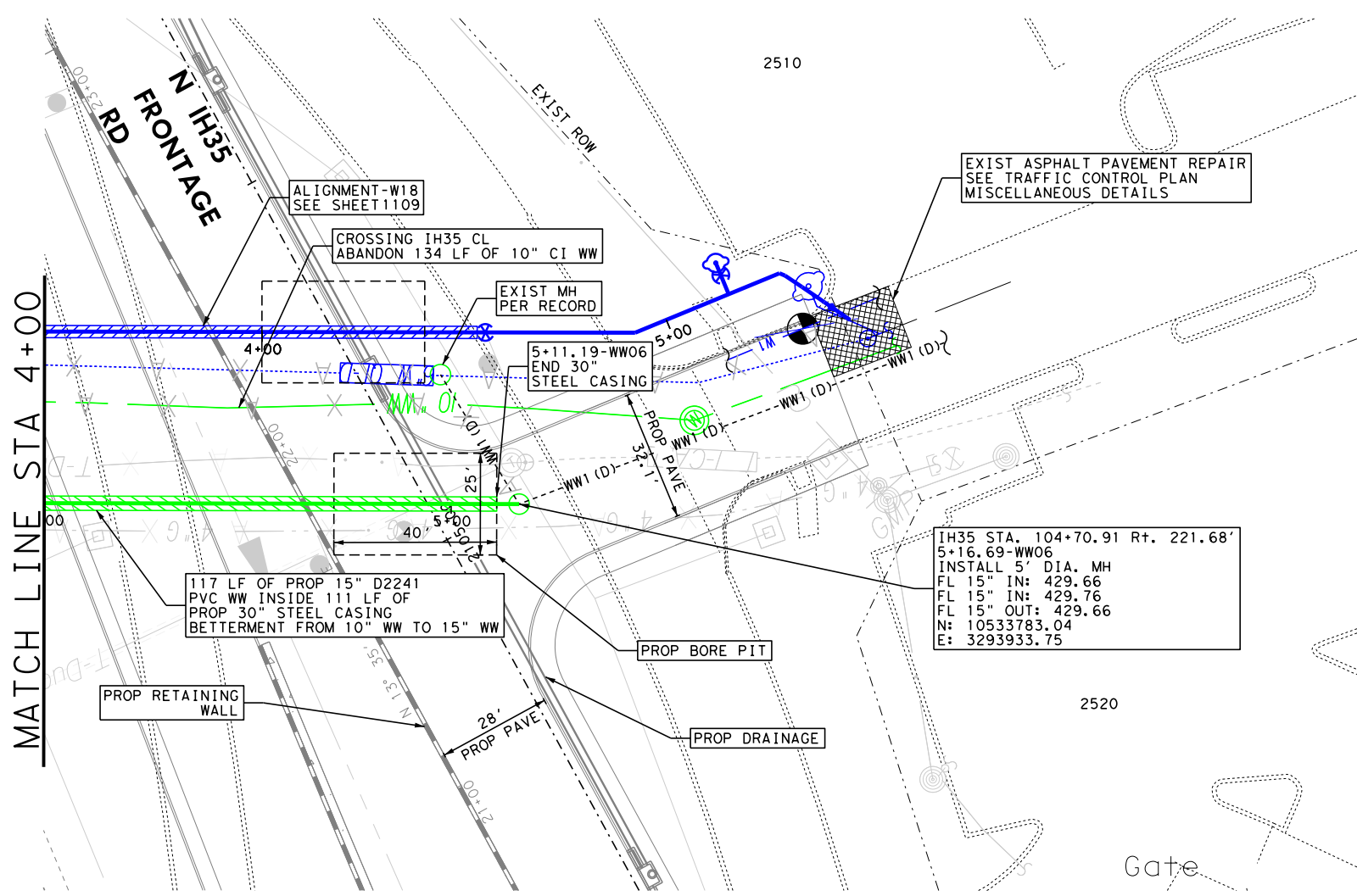


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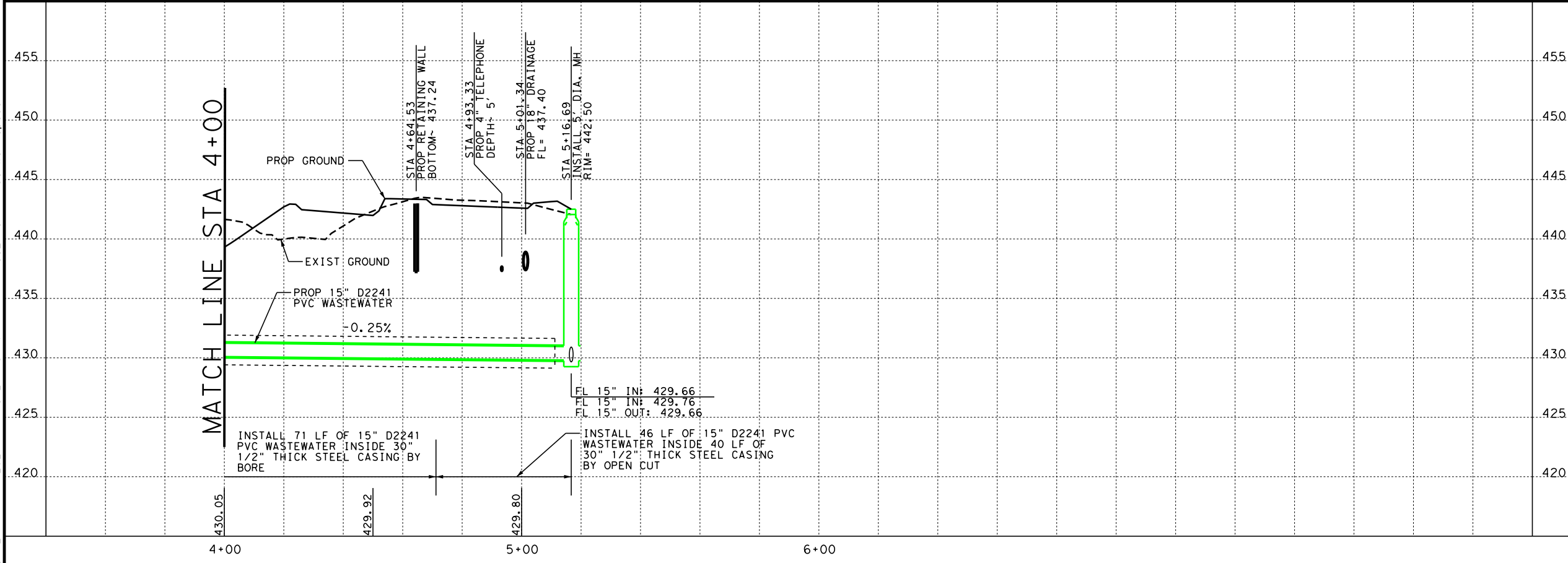


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "06" PLAN AND PROFILE STA 0+00 TO STA 4+00			
SHEET 1 OF 2			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1137	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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- NOTES:**
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 - EXISTING WASTEWATER IS IN CONFLICT WITH PROPOSED DRAINAGE PERPENDICULARLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.



NO.	DATE	REVISION	APPROVED

07/17/2024

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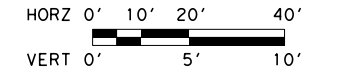
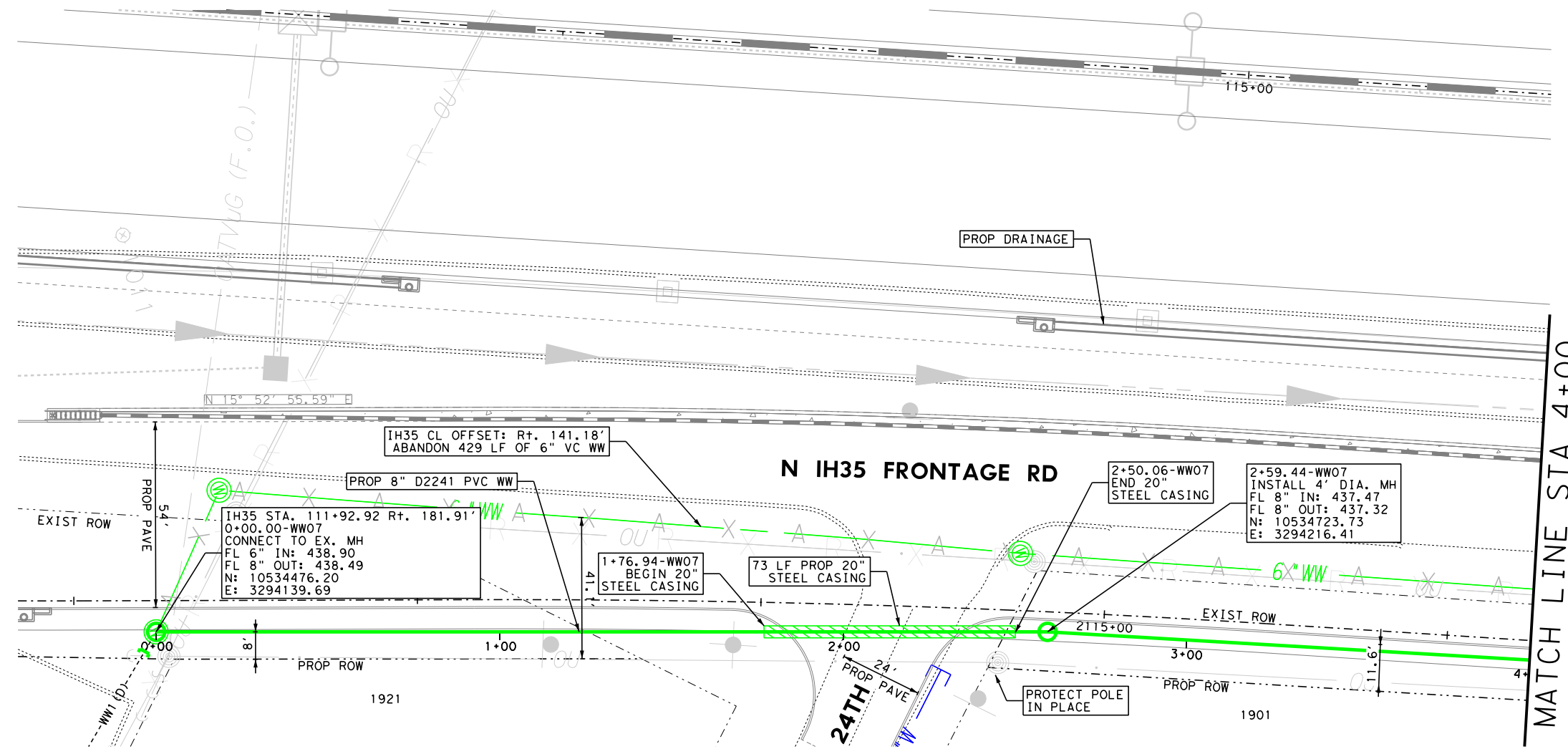
IH 35 FROM S LP 340 TO 12TH ST

WASTE WATER LINE "06"
 PLAN AND PROFILE
 STA 4+00 TO STA 5+17

SHEET 2 OF 2

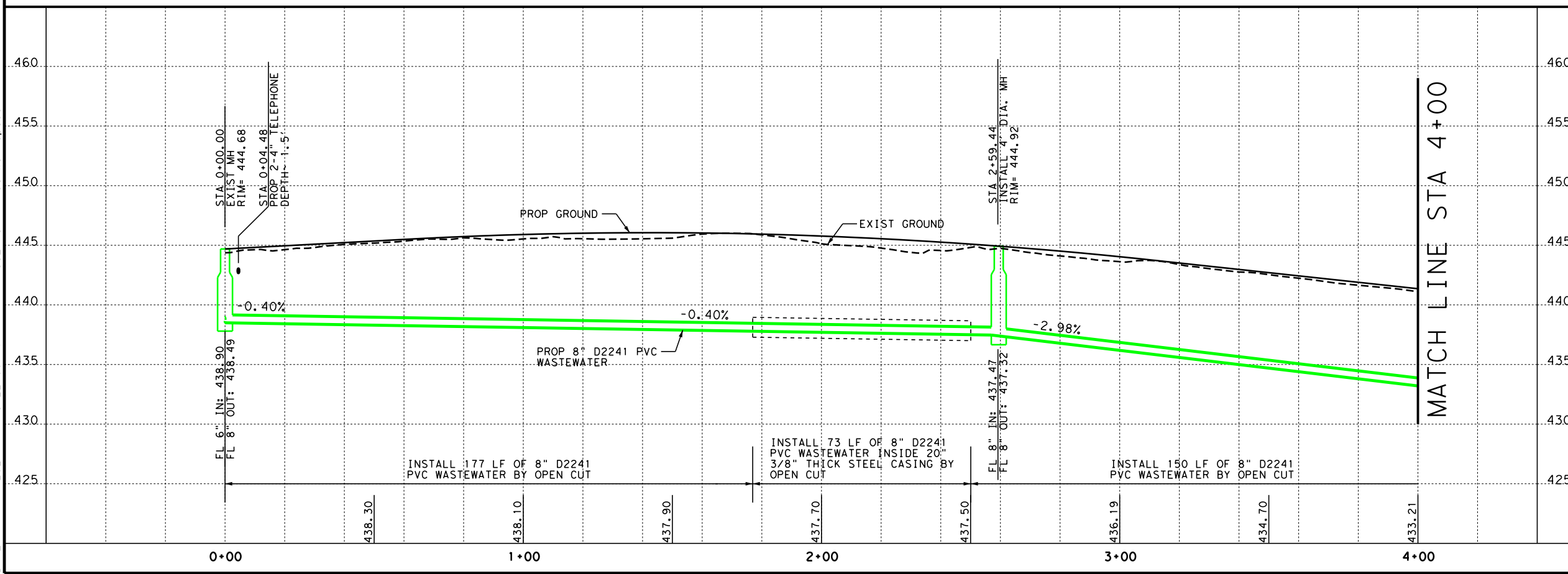
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1138	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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NOTES:

1. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
3. MANHOLE GRADE RING TO BE INSTALLED 6" BELOW PROPOSED GRADE. MANHOLE FRAME AND COVER TO BE ADJUSTED TO PROPOSED GRADE WHEN PROPOSED GRADE IS CONSTRUCTED. SEE CITY OF WACO DETAILS S-5 & S-6.
4. EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
5. CONTRACTOR SHALL CCTV ALL EXISTING WASTEWATER TO BE RELOCATED. ALL SERVICES FOUND THROUGH CCTV SHALL BE REESTABLISHED.
6. WASTEWATER MANHOLE COVERS SHALL WEIGHT AT LEAST 175LB AND BE DESIGNED FOR HS-20 LOADING.
7. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
8. EXISTING WASTEWATER IS IN CONFLICT WITH PROPOSED PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.



NO.	DATE	REVISION	APPROVED

07/17/2024

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LINA T. RAMEY & ASSOCIATES, INC.
 3320 Belt Line Rd
 Farmers Branch, Texas 75234
 Firm Registration No. F-782

IH 35 FROM S LP 340 TO 12TH ST
 WASTE WATER LINE "07"
 PLAN AND PROFILE
 STA 0+00 TO STA 4+00

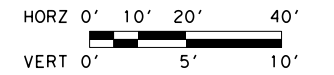
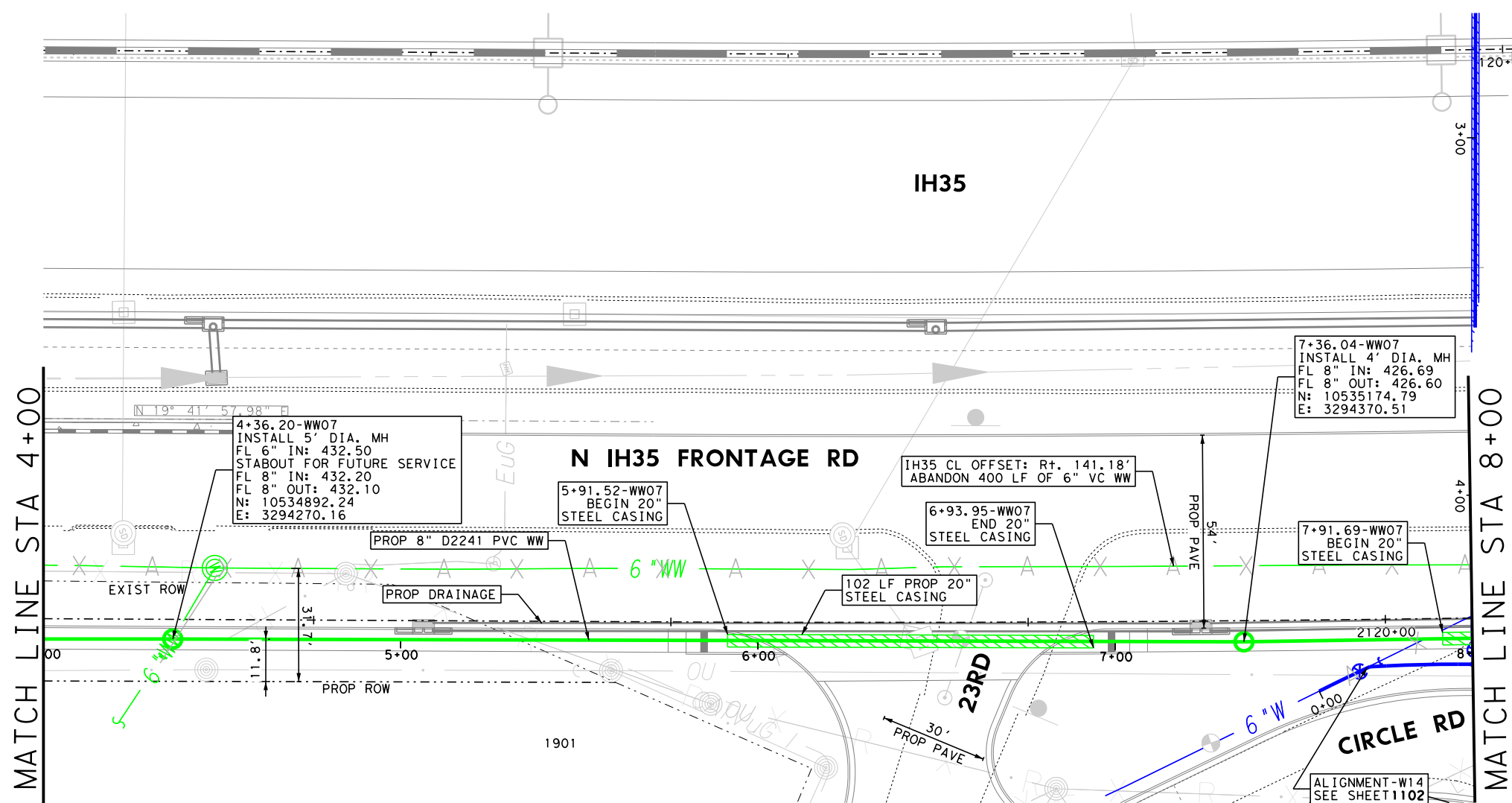
SHEET 1 OF 4

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
6	SEE TITLE SHEET	1139

STATE	DIST.	COUNTY
TEXAS	WACO	MCLENNAN

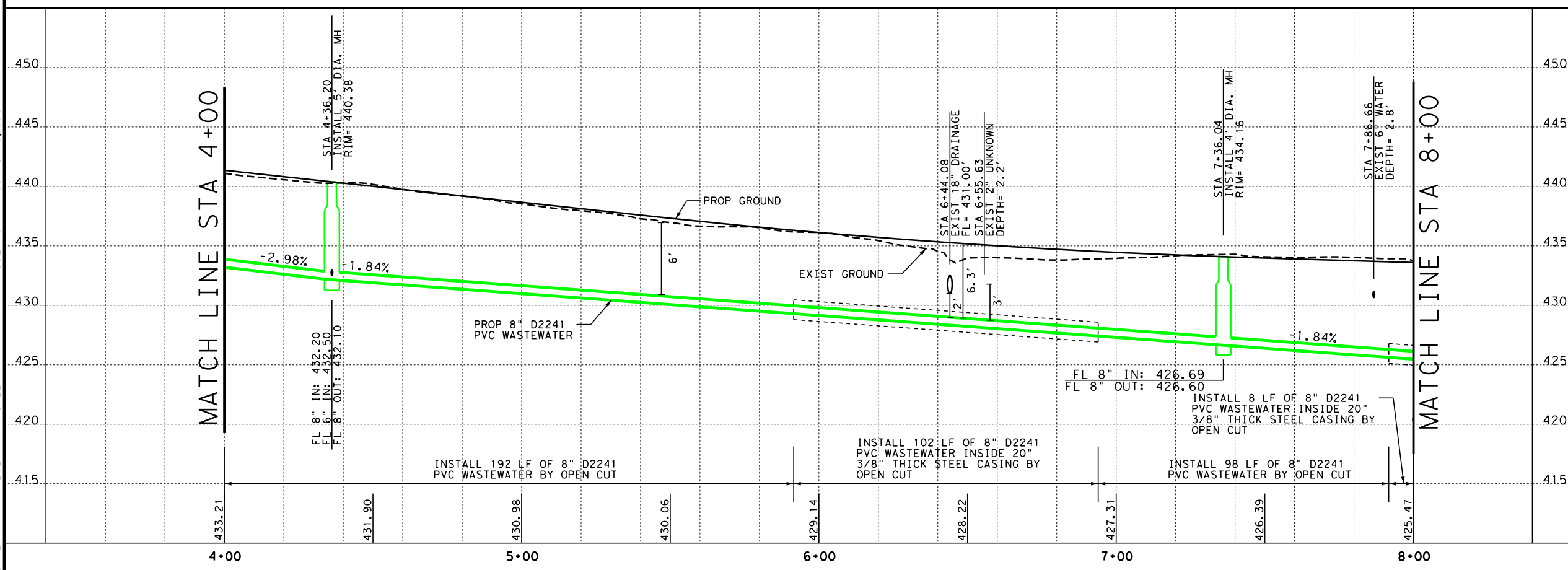
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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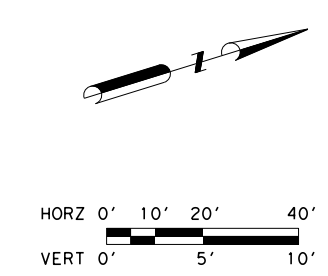
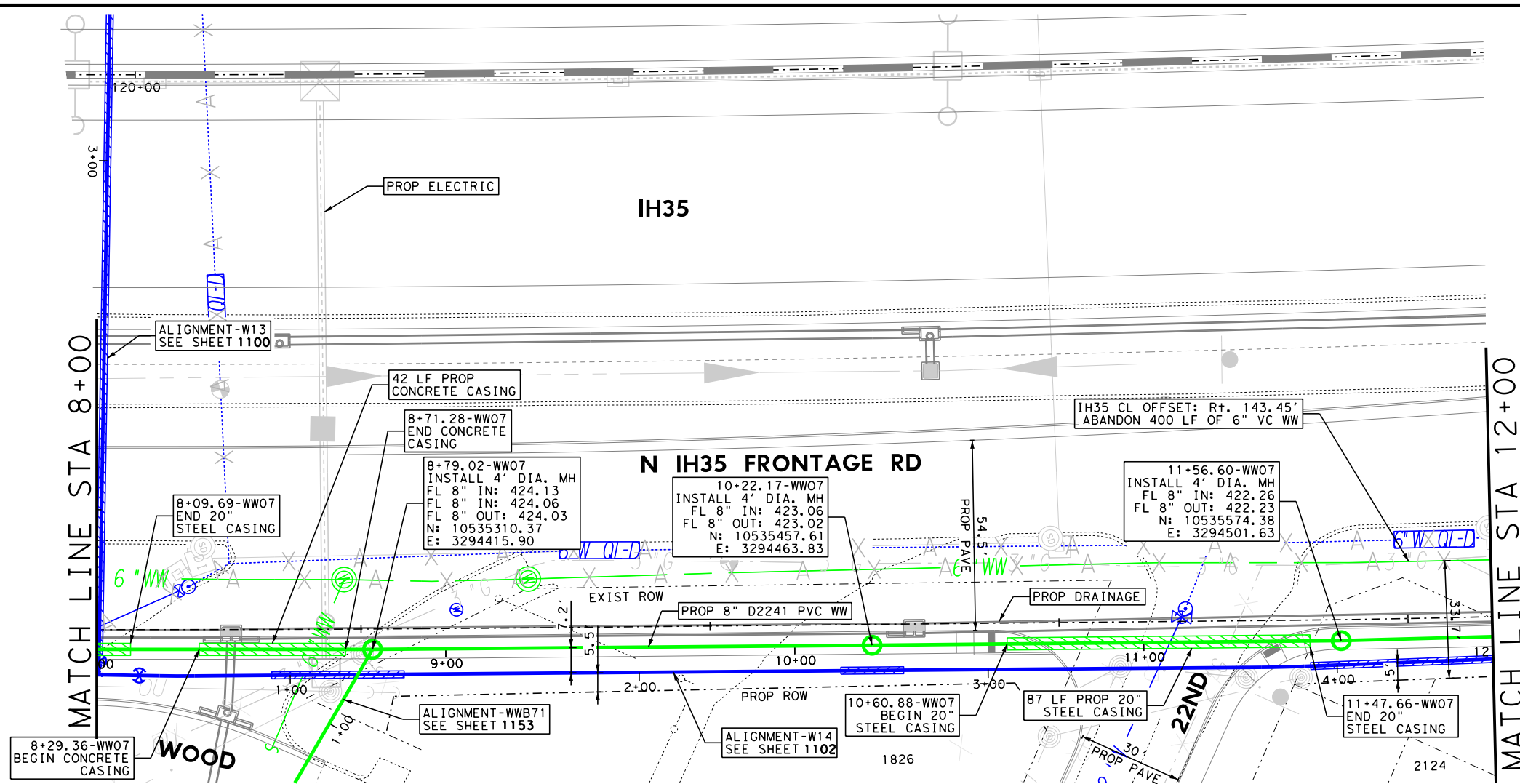
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6. WASTEWATER MANHOLE COVERS SHALL WEIGHT AT LEAST 175LB AND BE DESIGNED FOR HS-20 LOADING.
7. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
8. EXISTING WASTEWATER IS IN CONFLICT WITH PROPOSED PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.

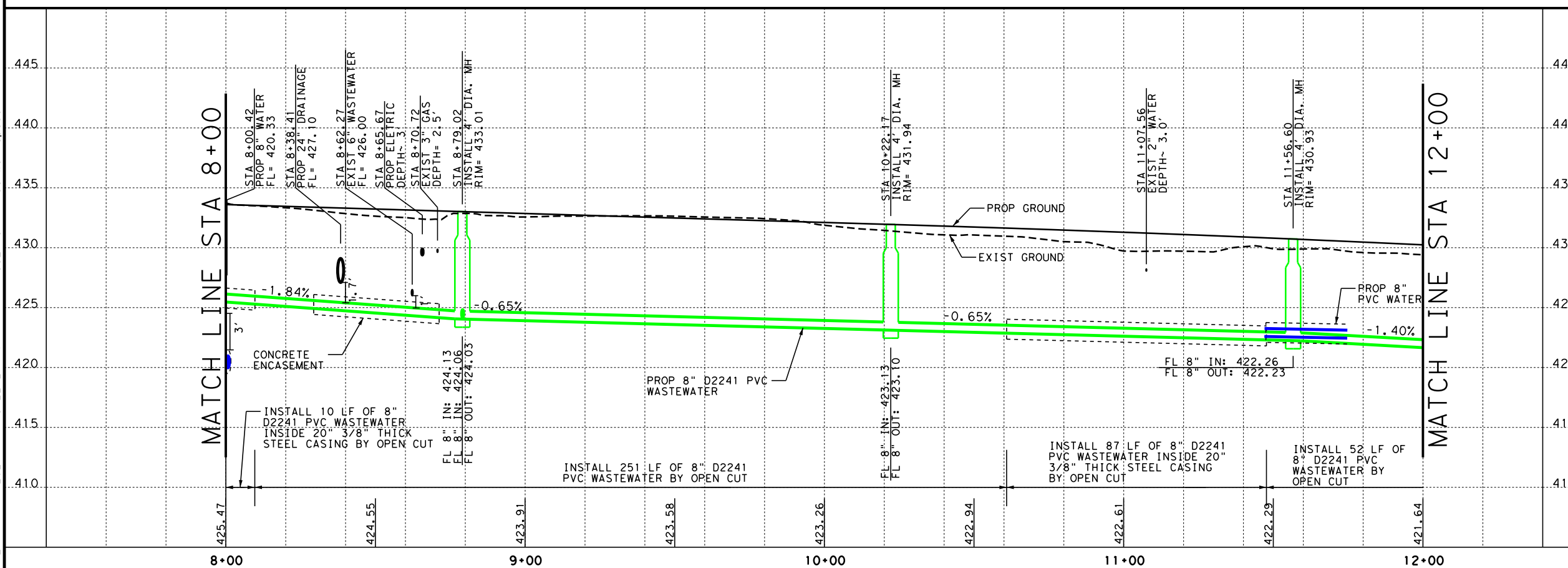


NO.	DATE	REVISION	APPROVED
			07/17/2024
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "07" PLAN AND PROFILE STA 4+00 TO STA 8+00			
SHEET 2 OF 4			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1140	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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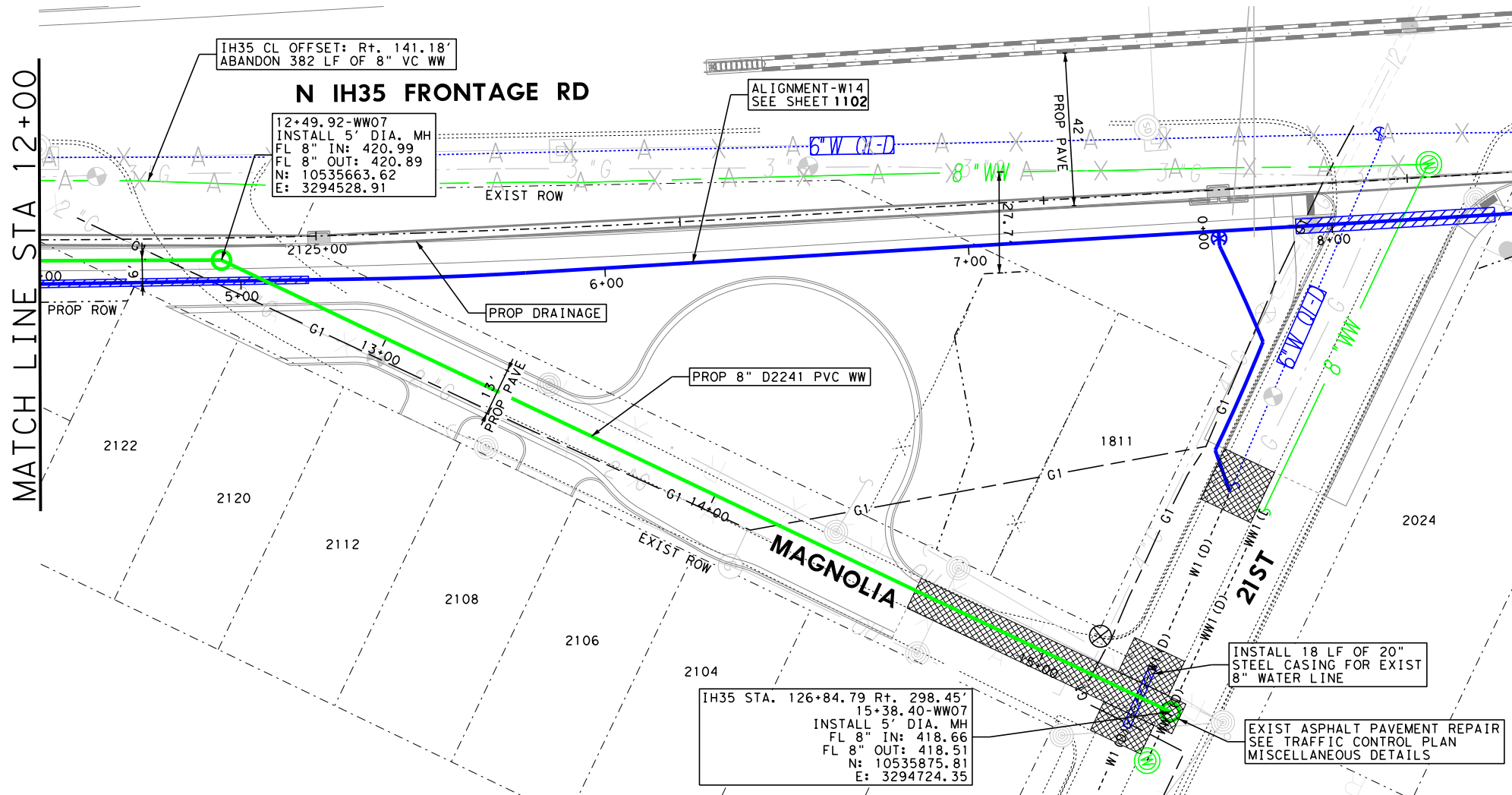


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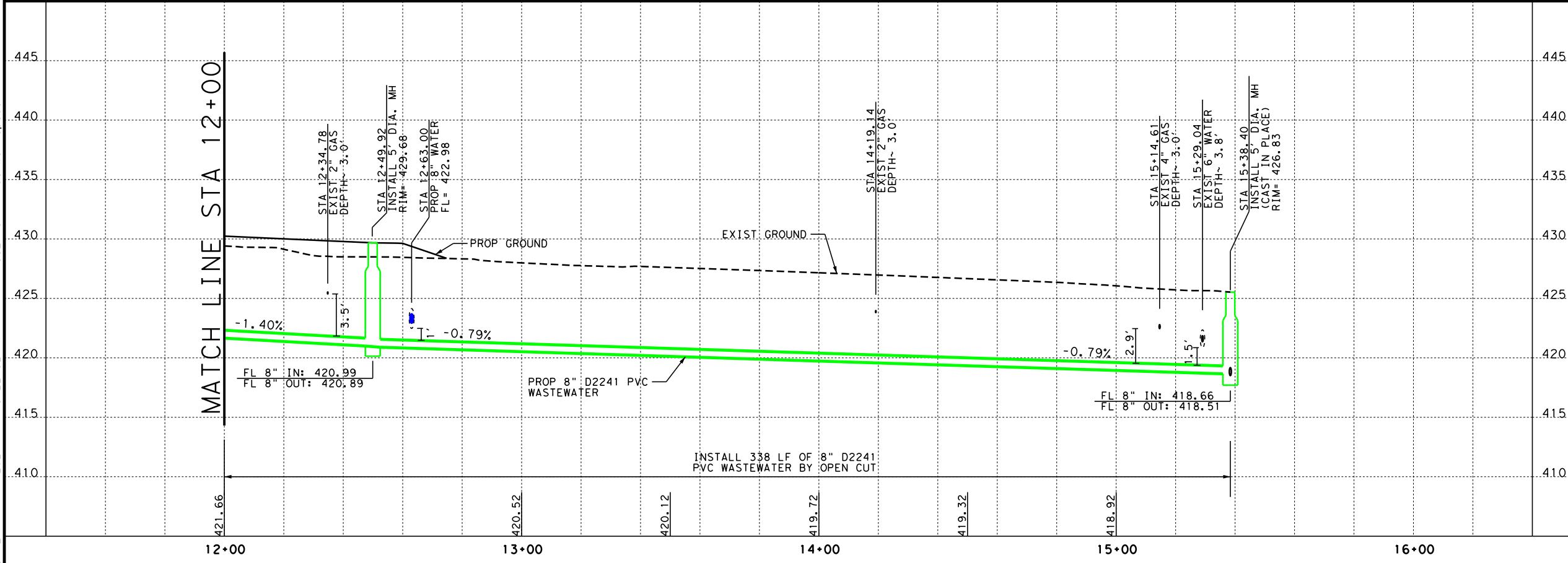


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "07" PLAN AND PROFILE STA 8+00 TO STA 12+00			
SHEET 3 OF 4			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1141	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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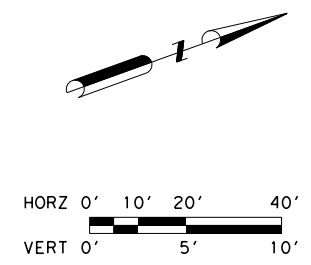
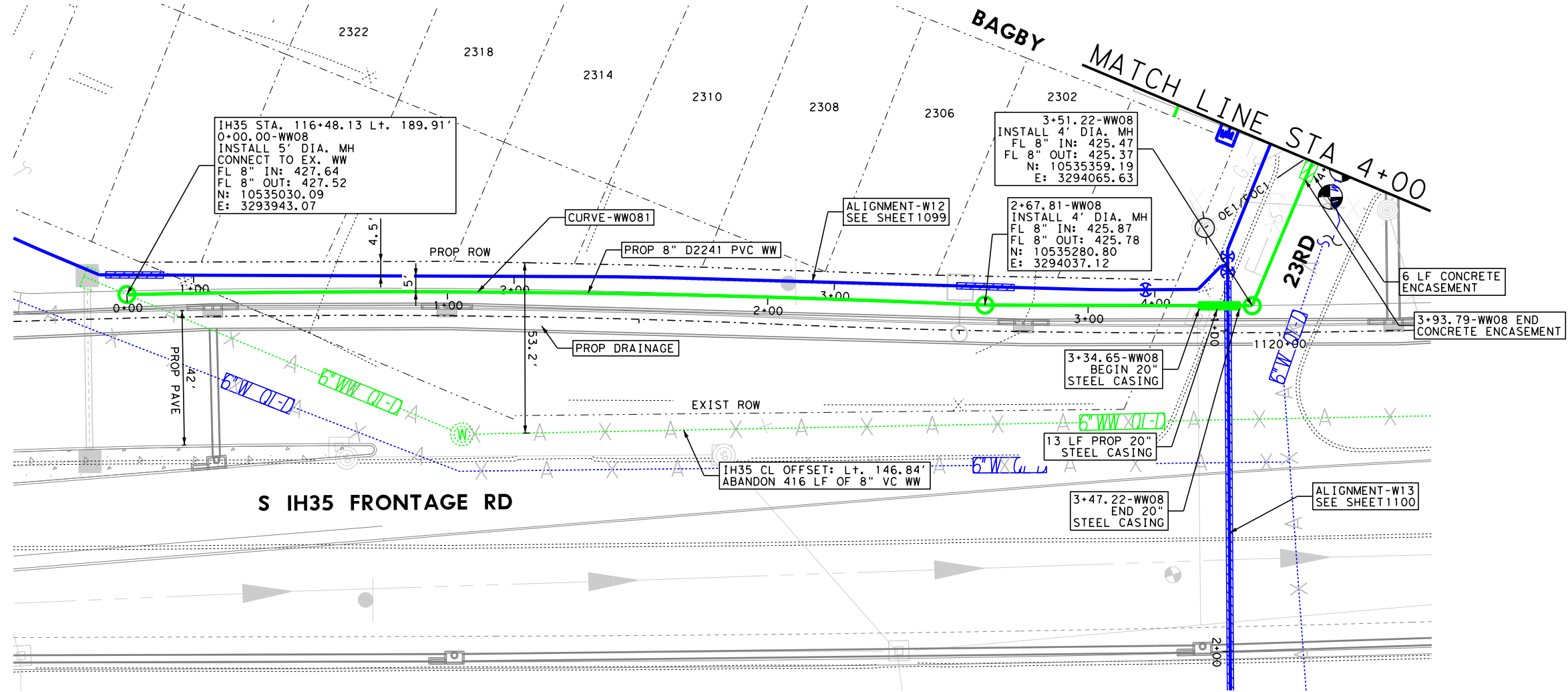


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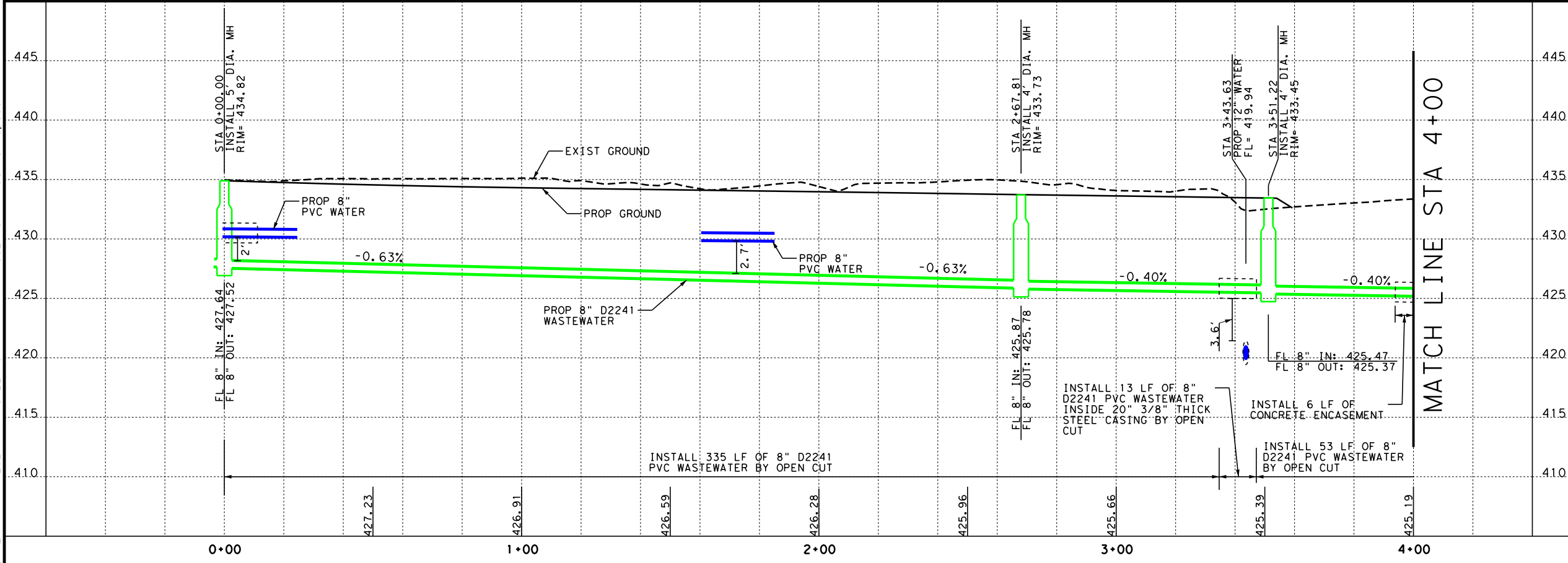


NO.	DATE	REVISION	APPROVED
			07/17/2024
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "07" PLAN AND PROFILE STA 12+00 TO STA 15+38			
SHEET 4 OF 4			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1142	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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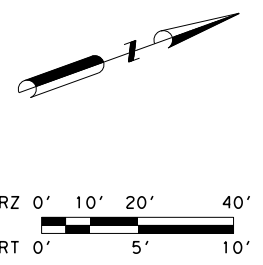
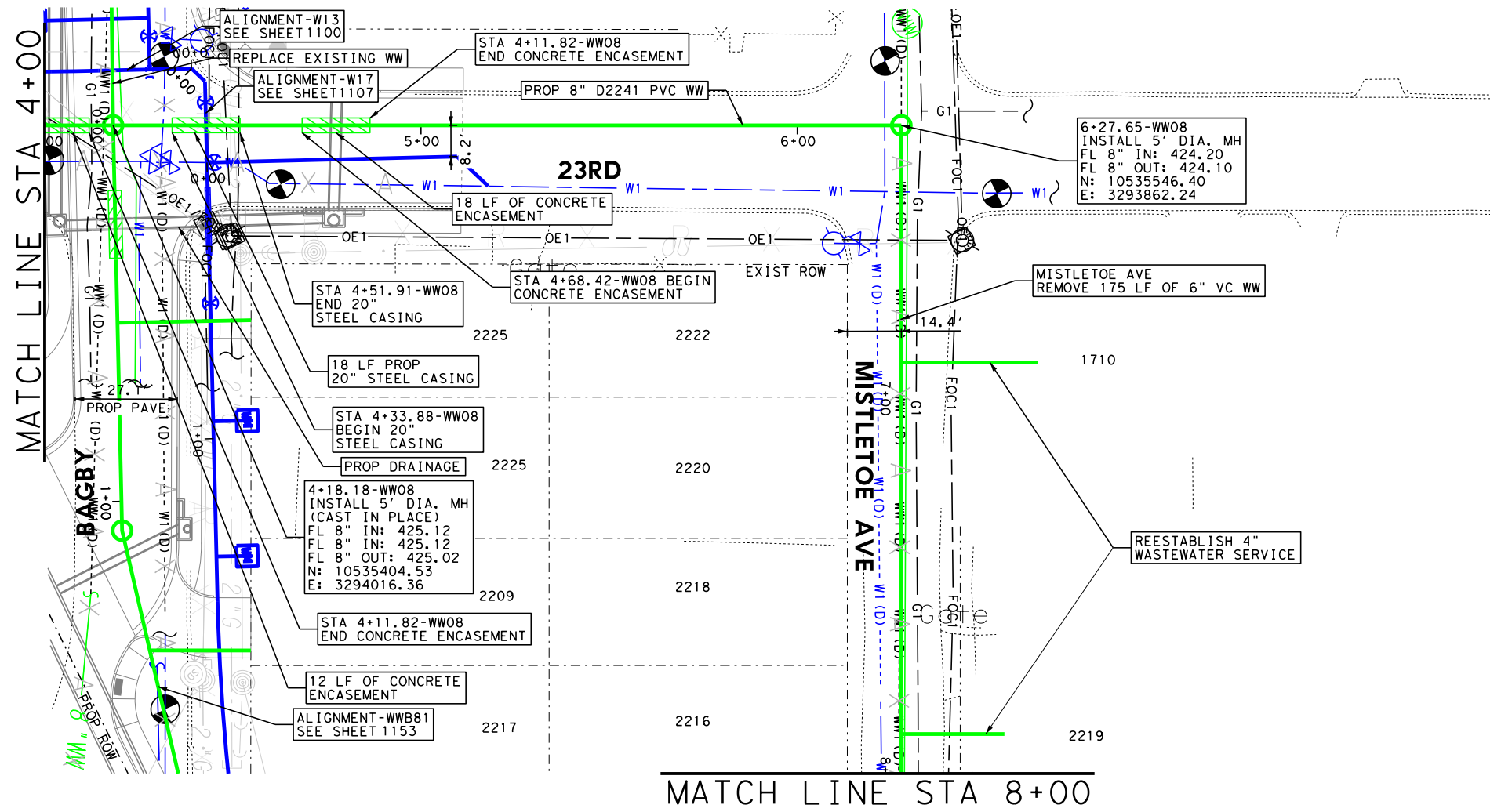


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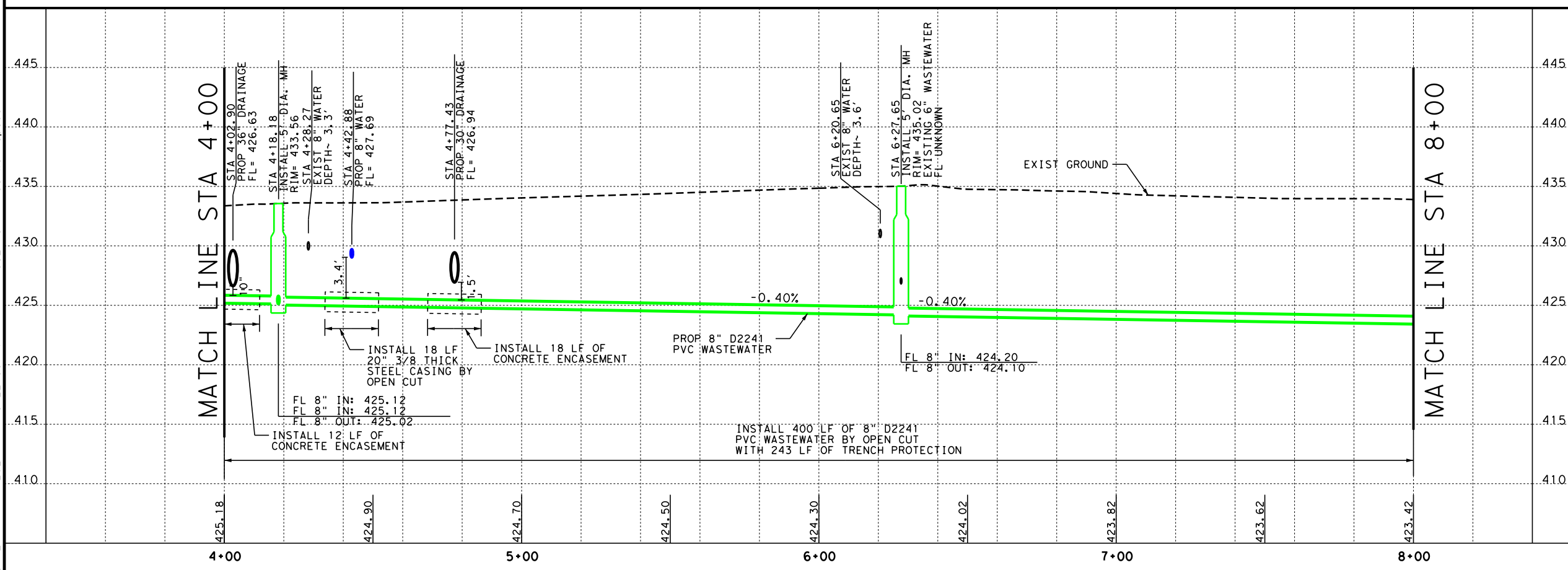


NO.	DATE	REVISION	APPROVED
			07/17/2024
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "08" PLAN AND PROFILE STA 0+00 TO STA 4+00			
SHEET 1 OF 7			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1143	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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- NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
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 - BYPASS PUMPING OF THE EXISTING MANHOLE UPSTREAM OF STA 6+27.65 TO BE USED FOR CONSTRUCTION OF THE PROPOSED LINE FROM STA 6+27.65 TO STA 11+02.59.



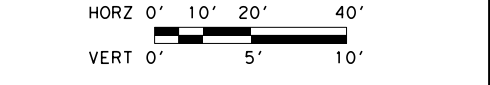
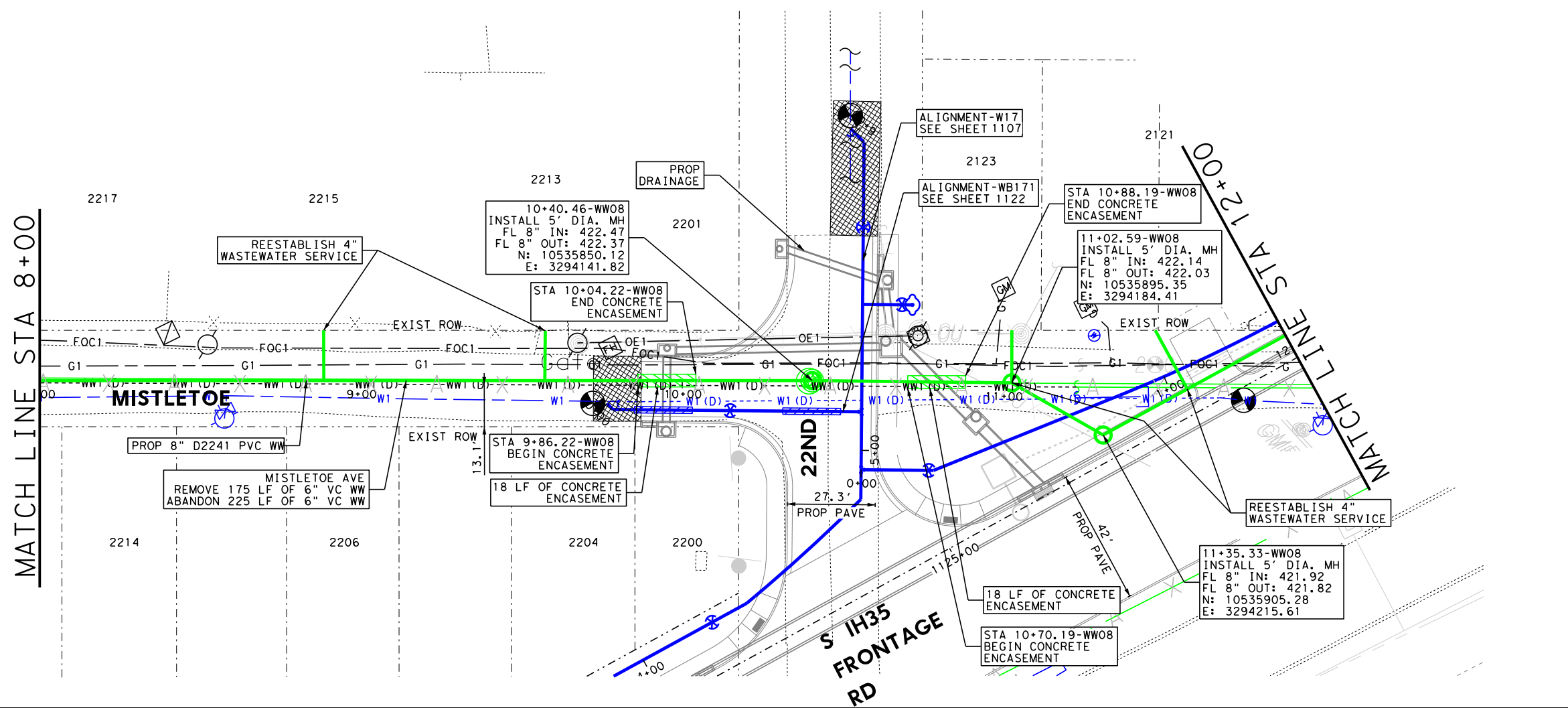
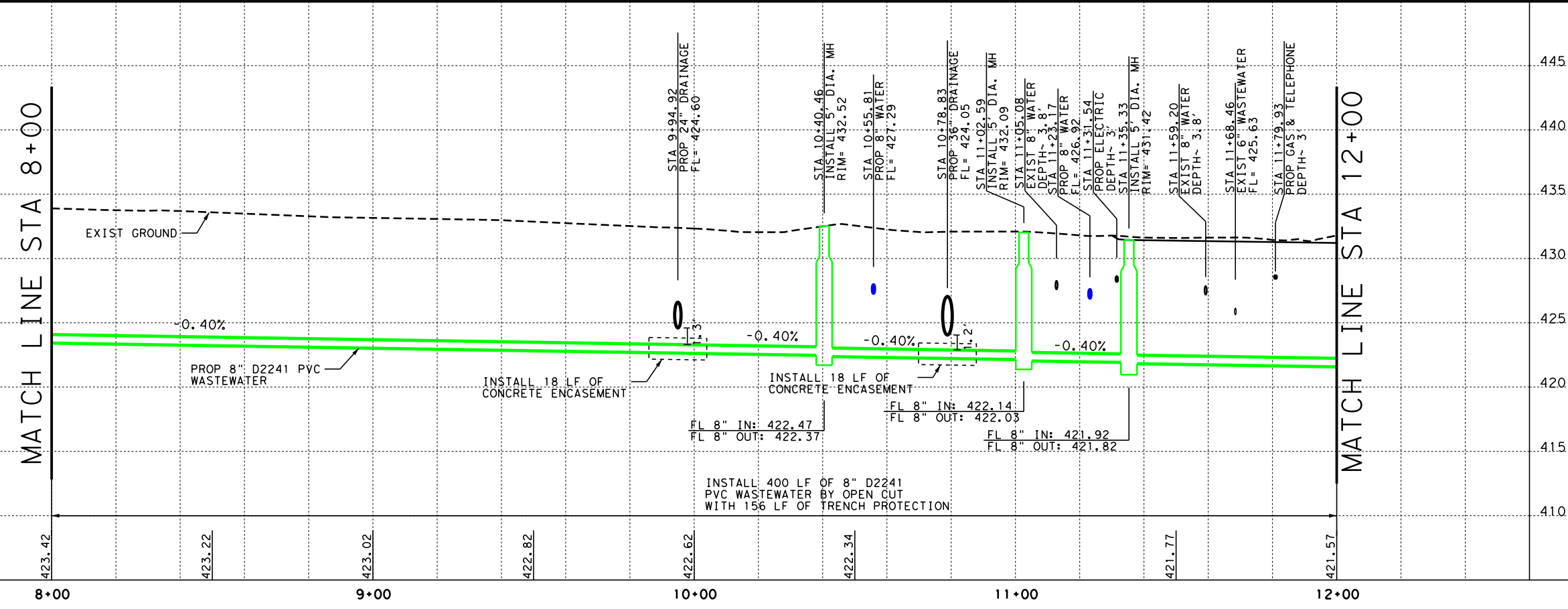
NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "08" PLAN AND PROFILE STA 4+00 TO STA 8+00 SHEET 2 OF 7			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1144	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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MATCH LINE STA 8+00

MATCH LINE STA 8+00

MATCH LINE STA 12+00



- NOTES:
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 9. BYPASS PUMPING OF THE EXISTING MANHOLE UPSTREAM OF STA 6+27.65 TO BE USED FOR CONSTRUCTION OF THE PROPOSED LINE FROM STA 6+27.65 TO STA 11+02.59.

NO.	DATE	REVISION	APPROVED

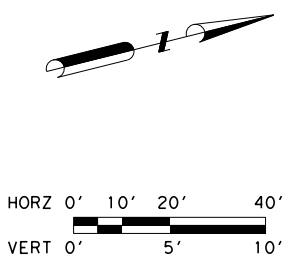
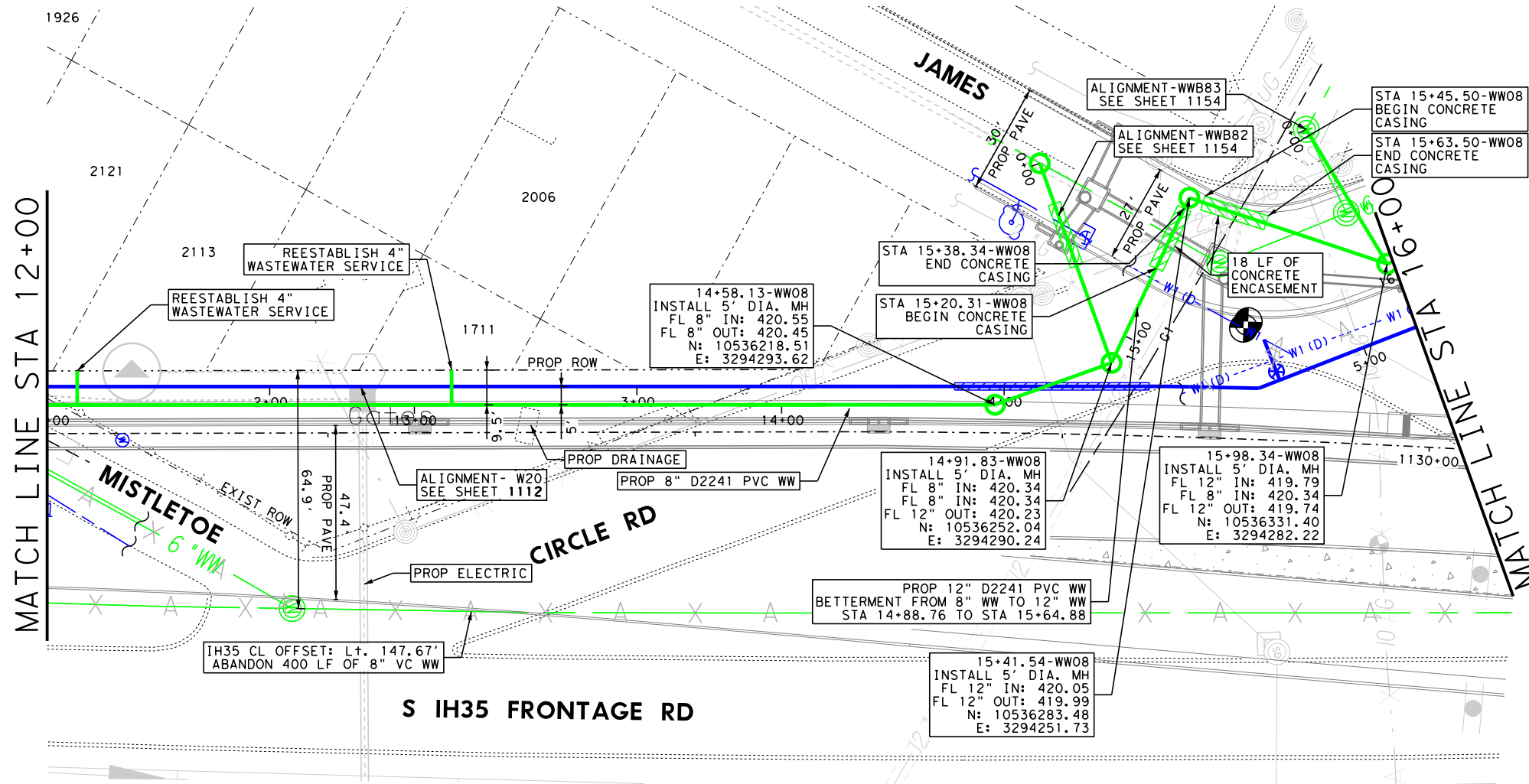
STATE OF TEXAS
 MATT WOLFE
 136362
 PROFESSIONAL ENGINEER
 07/17/2024

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 LTRA
 LINA T. RAMEY & ASSOCIATES, INC.
 3320 Belt Line Rd
 Farmers Branch, Texas 75234
 Firm Registration No. F-782

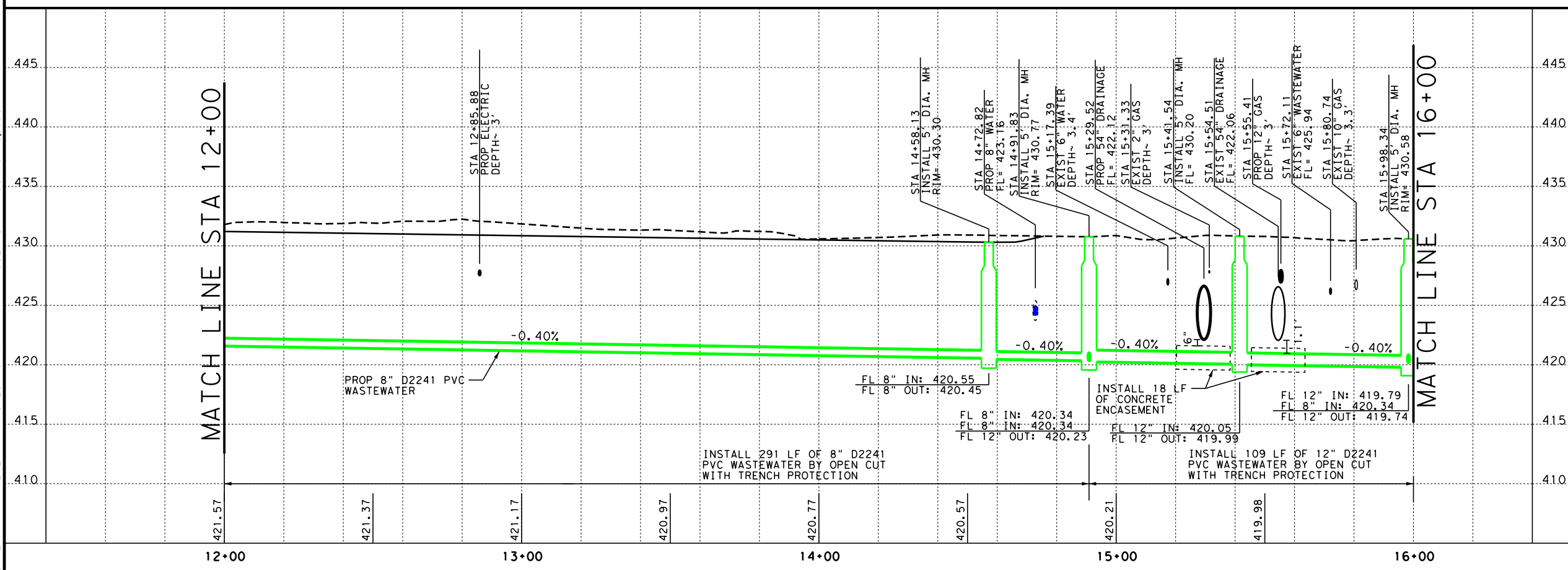
IH 35 FROM S LP 340 TO 12TH ST
 WASTE WATER LINE "08"
 PLAN AND PROFILE
 STA 8+00 TO STA 12+00
 SHEET 3 OF 7

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1145	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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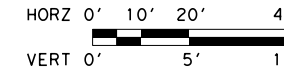
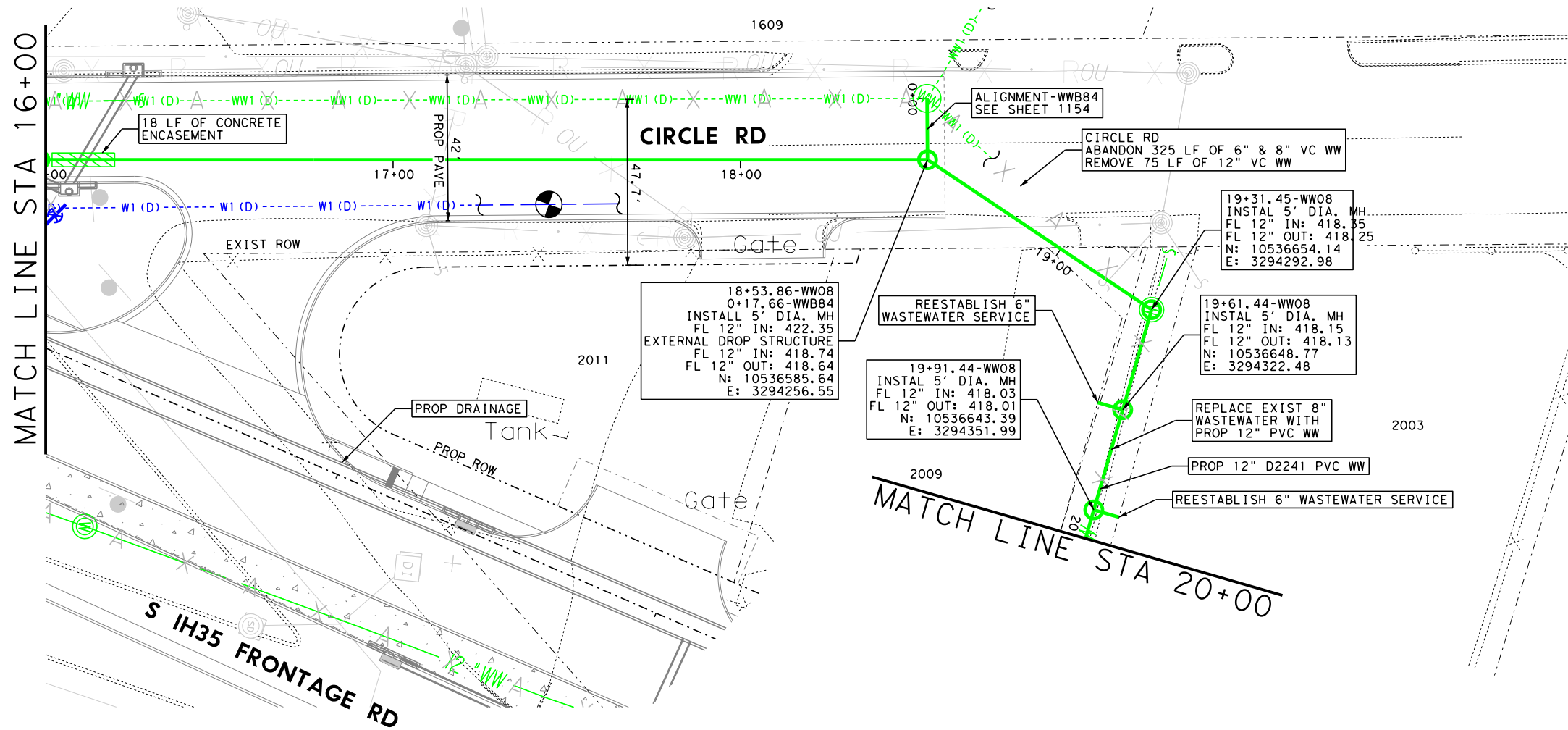


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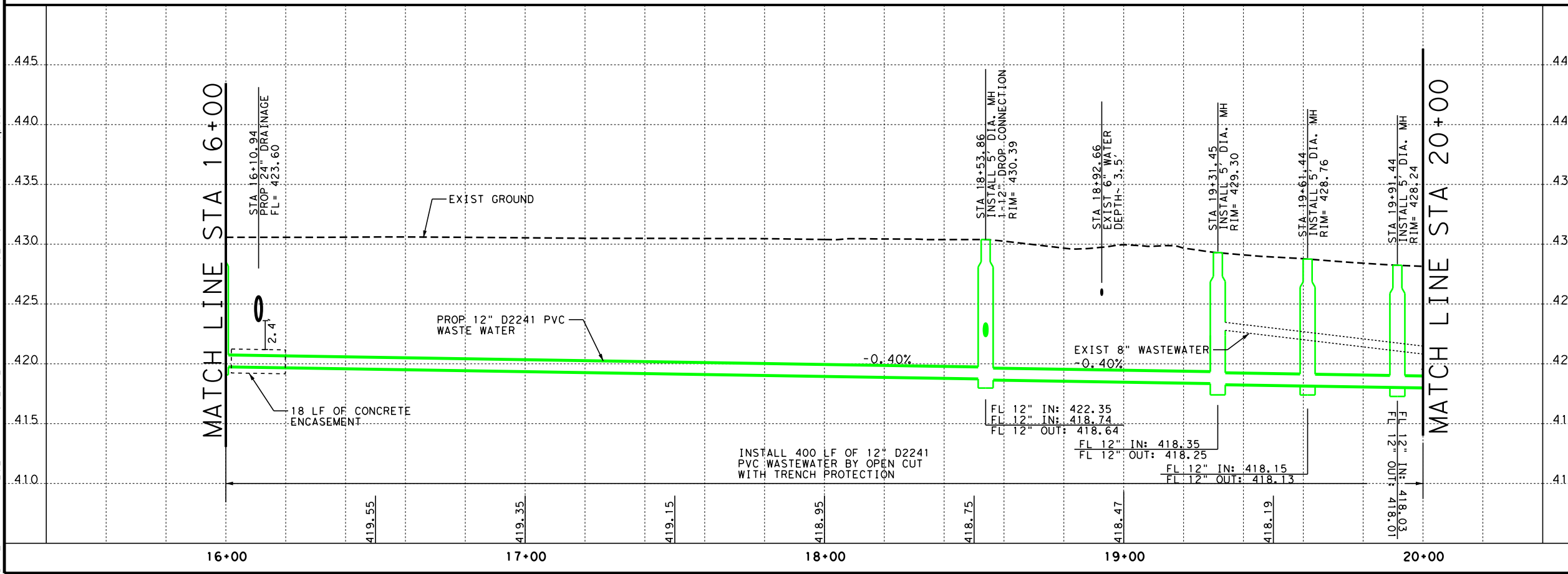


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "08" PLAN AND PROFILE STA 12+00 TO STA 16+00			
SHEET 4 OF 7			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1146	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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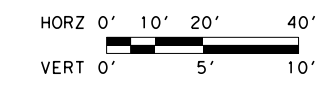
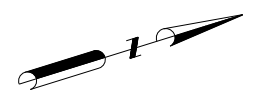
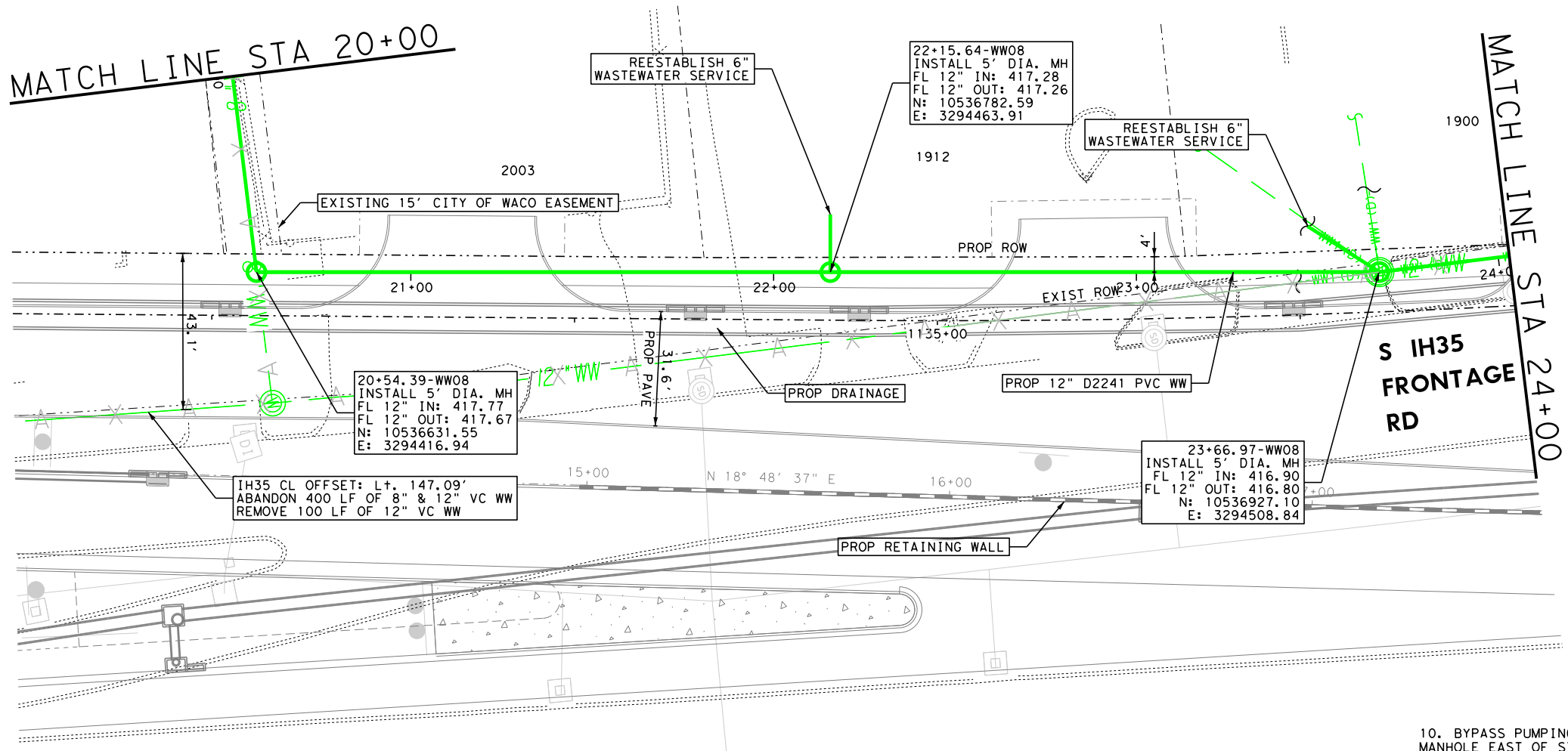


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 - BYPASS PUMPING OF THE EXISTING MANHOLE WEST OF STA 18+53.86 TO BE USED FOR CONSTRUCTION OF THE PROPOSED LINE FROM STA 19+61.44 TO STA 20+54.39.

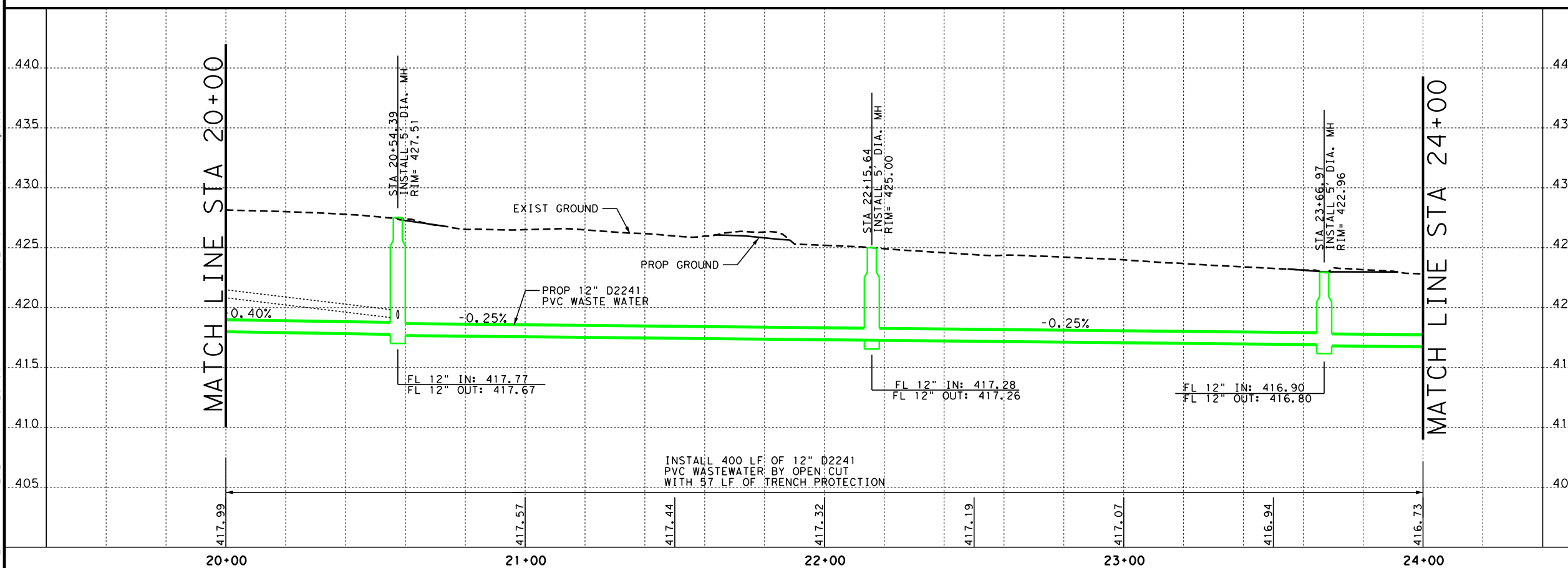


NO.	DATE	REVISION	APPROVED
			07/17/2024
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "08" PLAN AND PROFILE STA 16+00 TO STA 20+00			
SHEET 5 OF 7			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1147	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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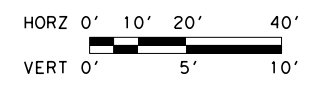
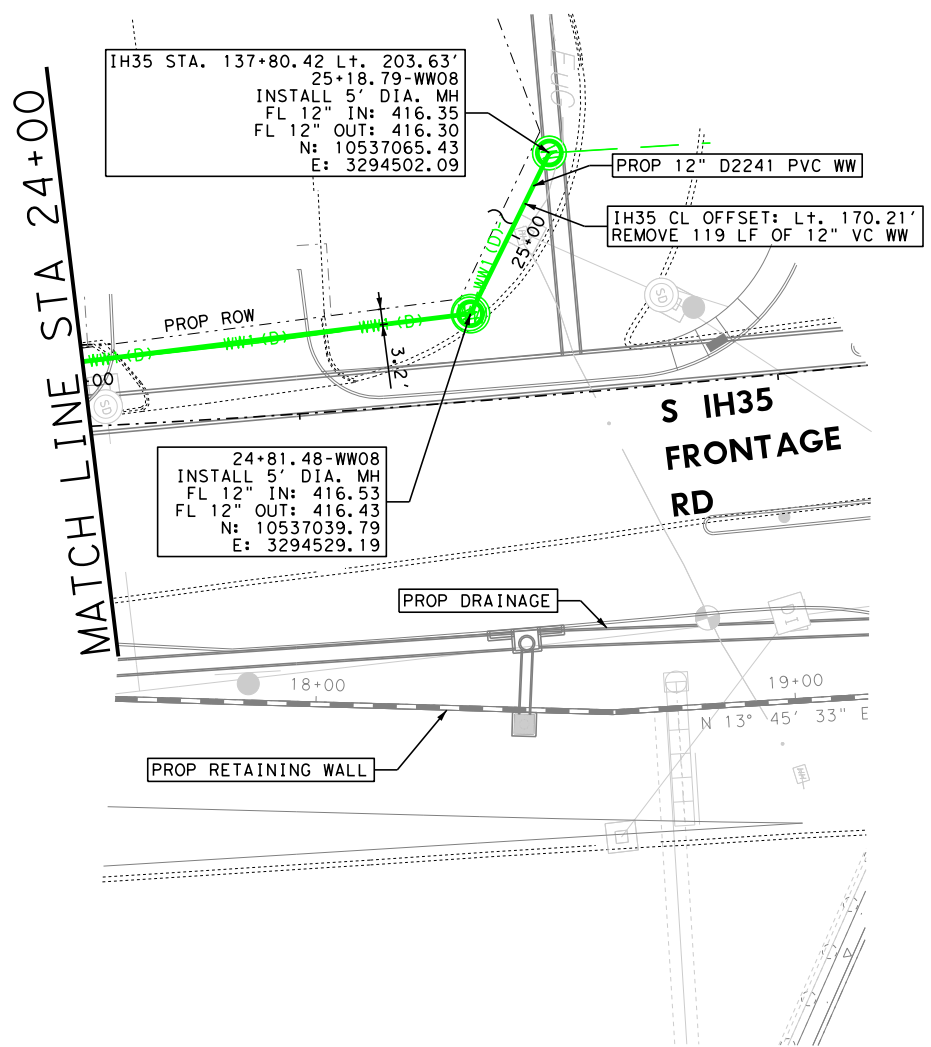


- NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 - SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 - MANHOLE GRADE RING TO BE INSTALLED 6" BELOW PROPOSED GRADE. MANHOLE FRAME AND COVER TO BE ADJUSTED TO PROPOSED GRADE WHEN PROPOSED GRADE IS CONSTRUCTED. SEE CITY OF WACO DETAILS S-5 & S-6.
 - EXISTING SOIL IN THE AREA CAN MAKE DIRECTIONAL AND DRY BORES DIFFICULT TO CONSTRUCT AS DESIGNED ALONG SPECIFIC ALIGNMENTS.
 - CONTRACTOR SHALL CCTV ALL EXISTING WASTEWATER TO BE RELOCATED. ALL SERVICES FOUND THROUGH CCTV SHALL BE REESTABLISHED.
 - WASTEWATER MANHOLE COVERS SHALL WEIGHT AT LEAST 175LB AND BE DESIGNED FOR HS-20 LOADING.
 - ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 - EXISTING WASTEWATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.
 - BYPASS PUMPING OF THE EXISTING MANHOLE WEST OF STA 18+53.86 TO BE USED FOR CONSTRUCTION OF THE PROPOSED LINE FROM STA 19+61.44 TO STA 20+54.39.
 - BYPASS PUMPING OF THE EXISTING MANHOLE EAST OF STA 20+54.39 TO BE USED FOR CONSTRUCTION OF THE PROPOSED LINE FROM STA 23+66.97 TO STA 25+18.79.

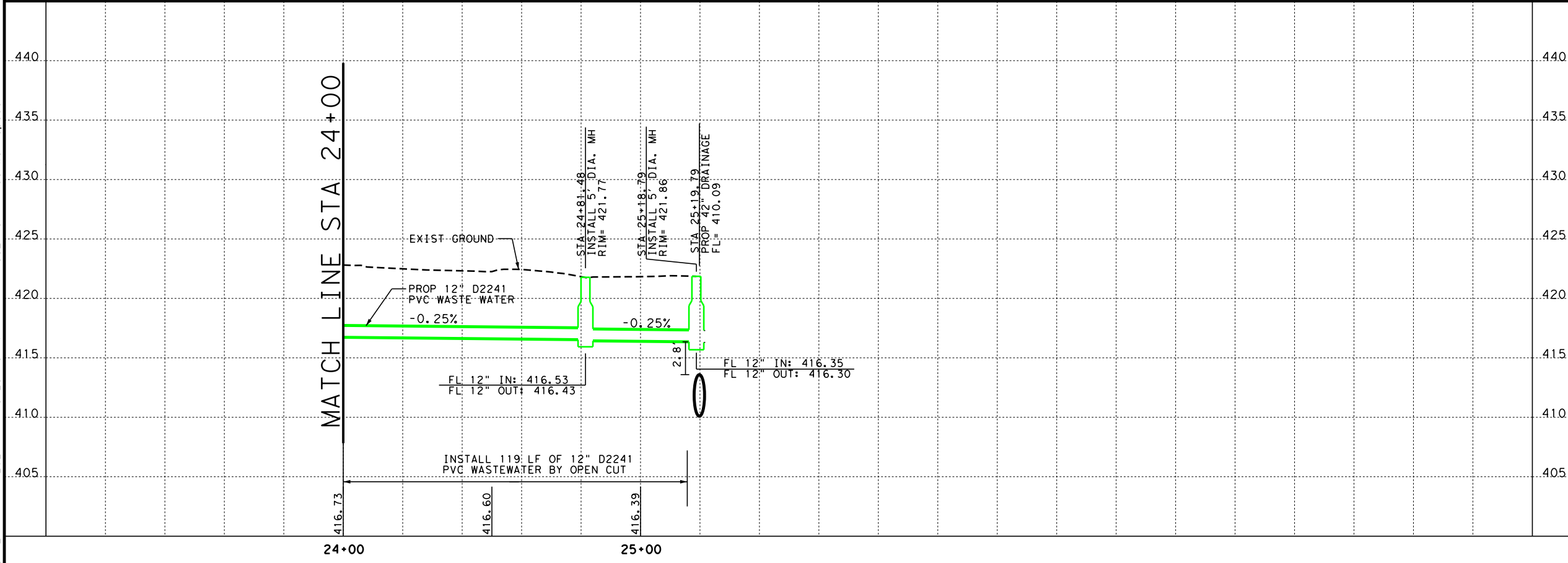


NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "08" PLAN AND PROFILE STA 20+00 TO STA 24+00 SHEET 6 OF 7			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1148	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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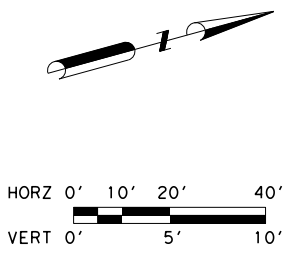
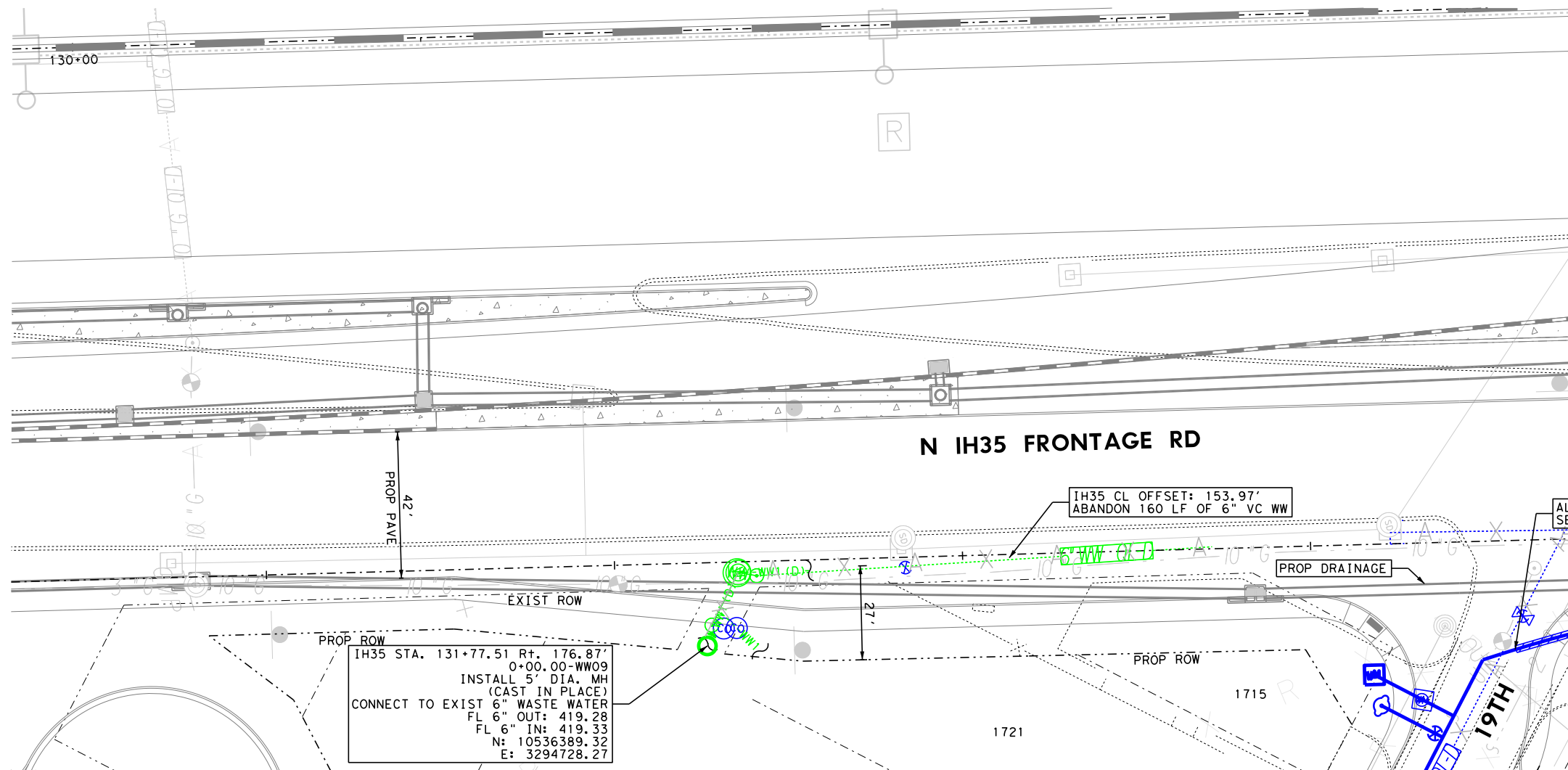


- NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 - SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 - MANHOLE GRADE RING TO BE INSTALLED 6" BELOW PROPOSED GRADE. MANHOLE FRAME AND COVER TO BE ADJUSTED TO PROPOSED GRADE WHEN PROPOSED GRADE IS CONSTRUCTED. SEE CITY OF WACO DETAILS S-5 & S-6.
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 - CONTRACTOR SHALL CCTV ALL EXISTING WASTEWATER TO BE RELOCATED. ALL SERVICES FOUND THROUGH CCTV SHALL BE REESTABLISHED.
 - WASTEWATER MANHOLE COVERS SHALL WEIGHT AT LEAST 175LB AND BE DESIGNED FOR HS-20 LOADING.
 - ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 - EXISTING WASTEWATER IS IN CONFLICT WITH PROPOSED DRAINAGE AND PAVEMENT LONGITUDINALLY. THE LINE IS BEING RELOCATED TO MOVE IT OUT OF CONFLICT AND INTO COMPLIANCE WITH THE UAR.
 - BYPASS PUMPING OF THE EXISTING MANHOLE EAST OF STA 20+54.39 TO BE USED FOR CONSTRUCTION OF THE PROPOSED LINE FROM STA 23+66.97 TO STA 25+18.79.

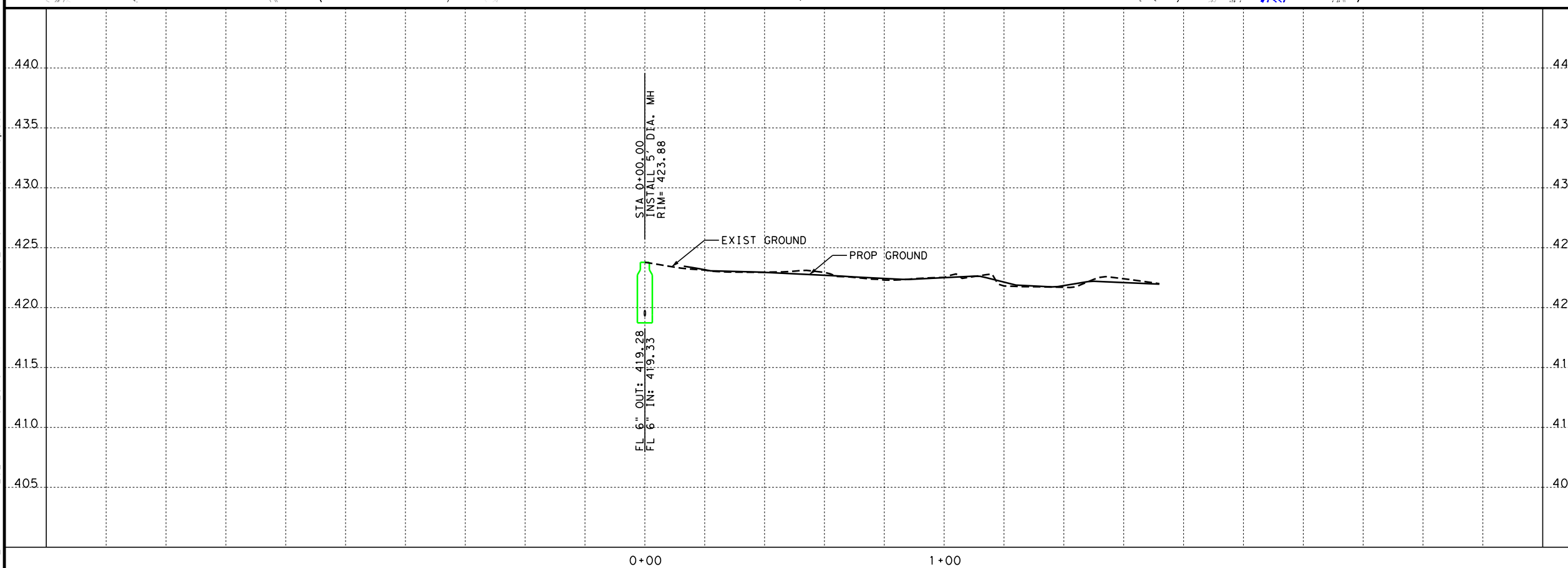


NO.	DATE	REVISION	APPROVED
			07/17/2024
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "08" PLAN AND PROFILE STA 24+00 TO STA 25+19 SHEET 7 OF 7			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1149	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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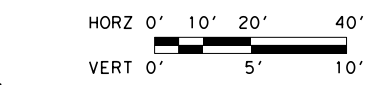
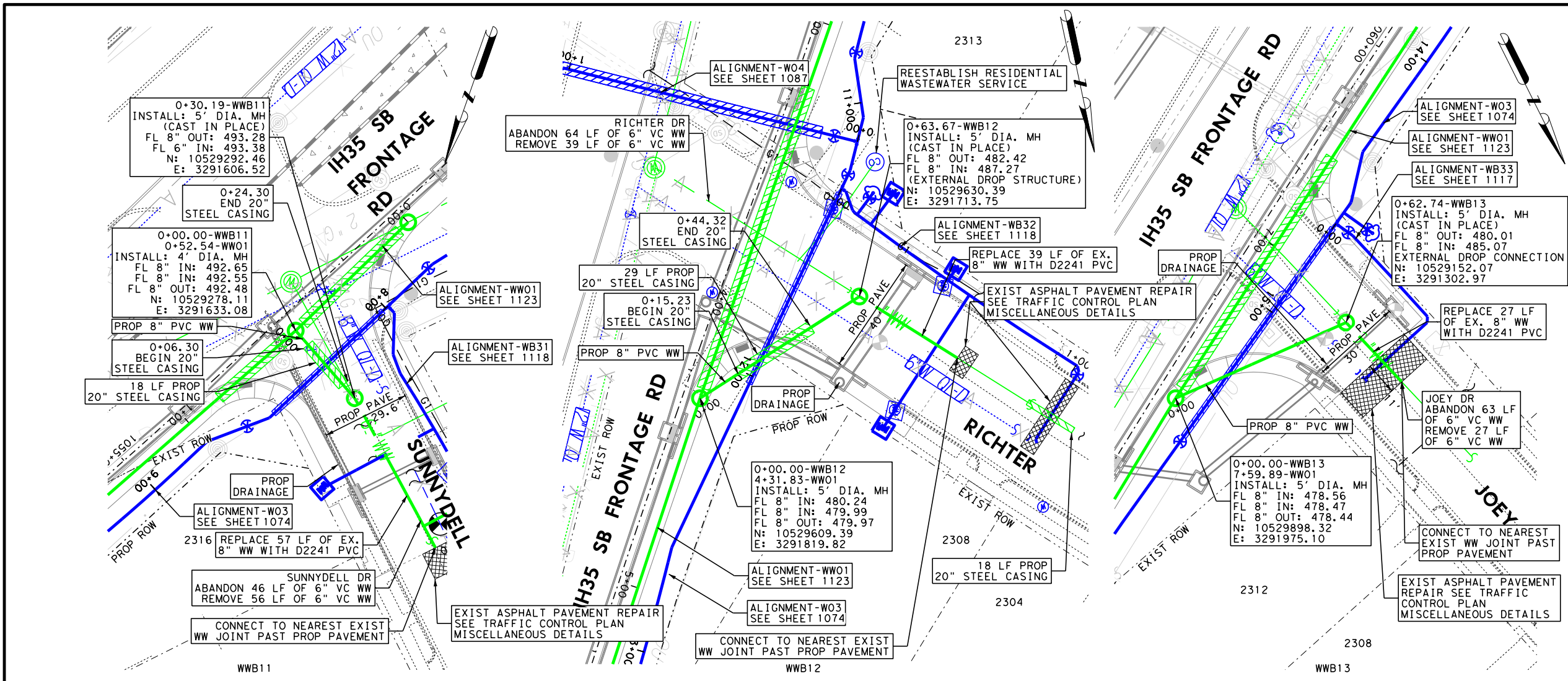


- NOTES:**
1. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 2. SEE SHEET 1056 & 1057 FOR SUE LEGEND.
 3. MANHOLE GRADE RING TO BE INSTALLED 6" BELOW PROPOSED GRADE. MANHOLE FRAME AND COVER TO BE ADJUSTED TO PROPOSED GRADE WHEN PROPOSED GRADE IS CONSTRUCTED. SEE CITY OF WACO DETAILS S-5 & S-6.
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 7. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
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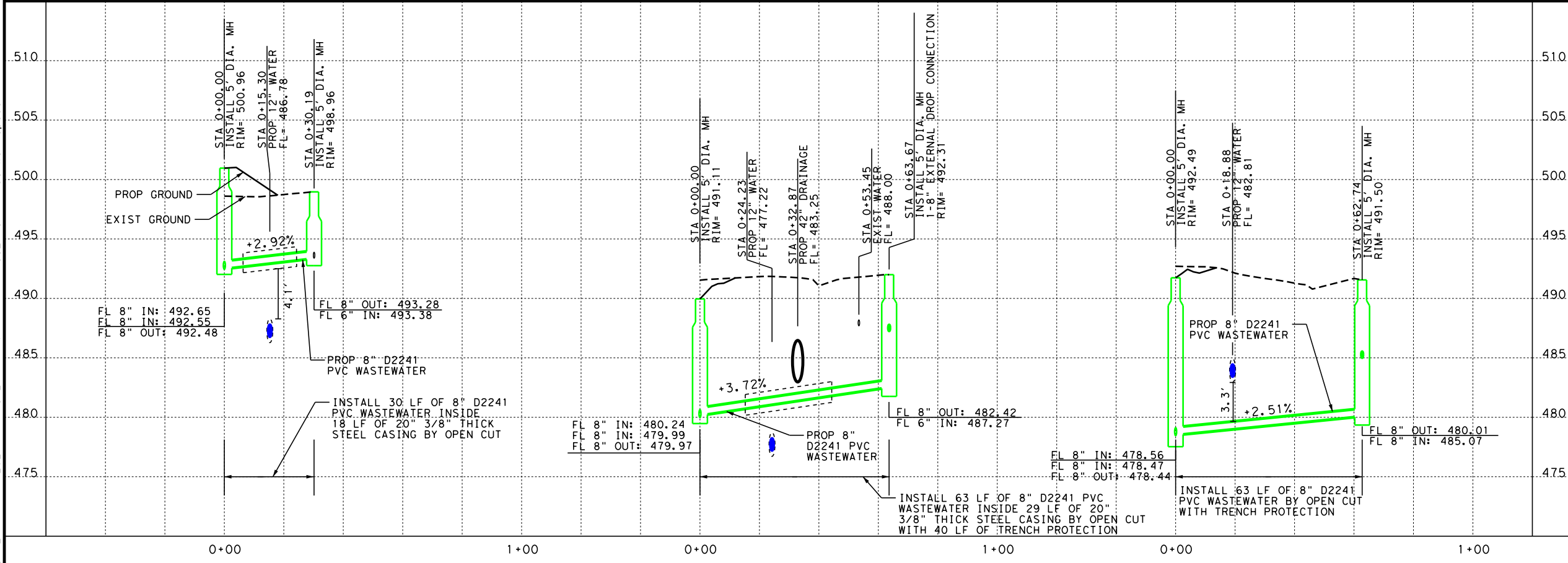


NO.	DATE	REVISION	APPROVED
 <small>LINA T. RAMEY & ASSOCIATES, INC. 3320 Belt Line Rd Farmers Branch, Texas 75234 Firm Registration No. F-782</small>			
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "09" PLAN AND PROFILE STA 0+00 TO STA 0+00			
SHEET 1 OF 1			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1150	
STATE	DIST.	COUNTY	
TEXAS	WACO	McLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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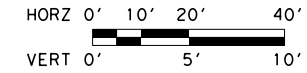
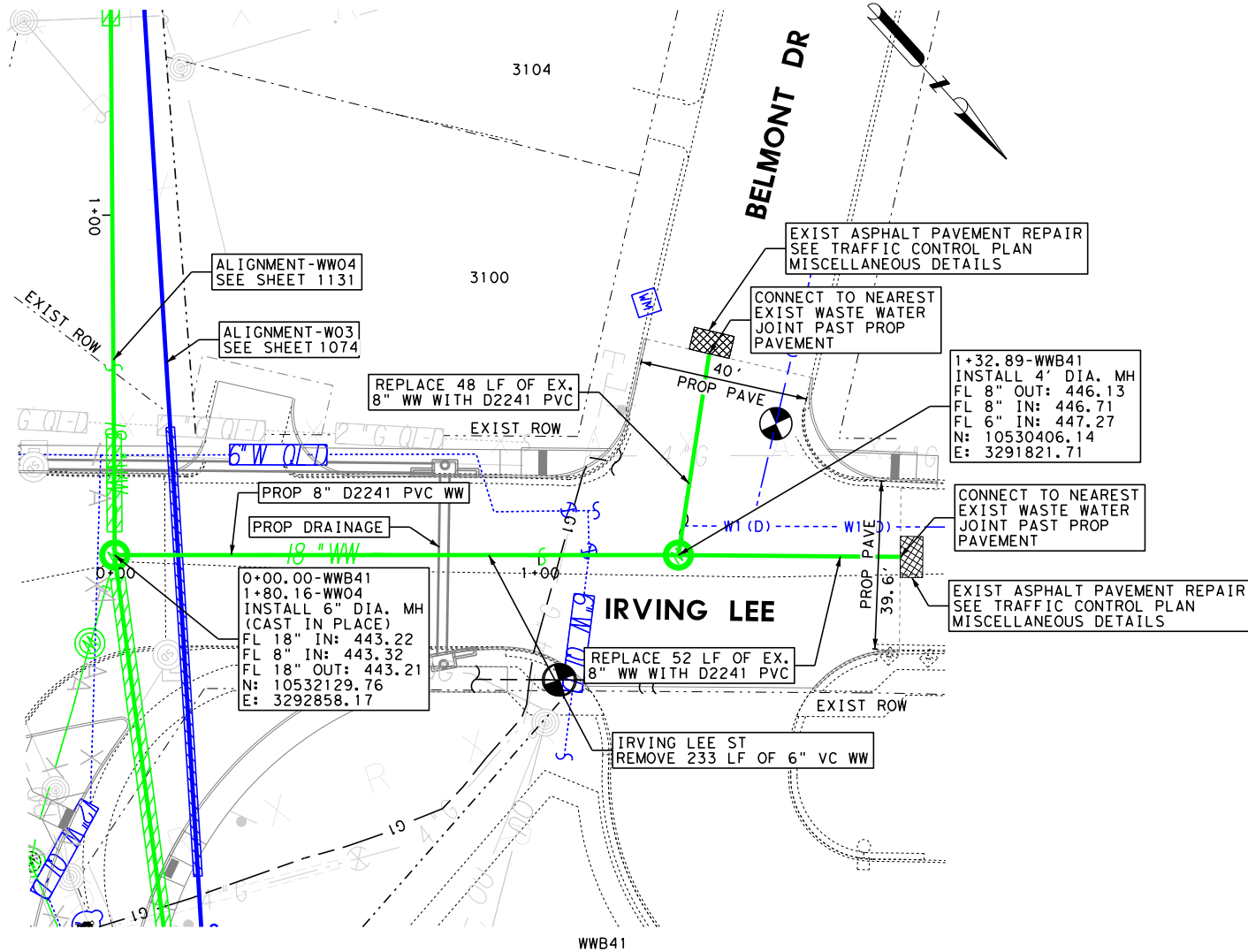
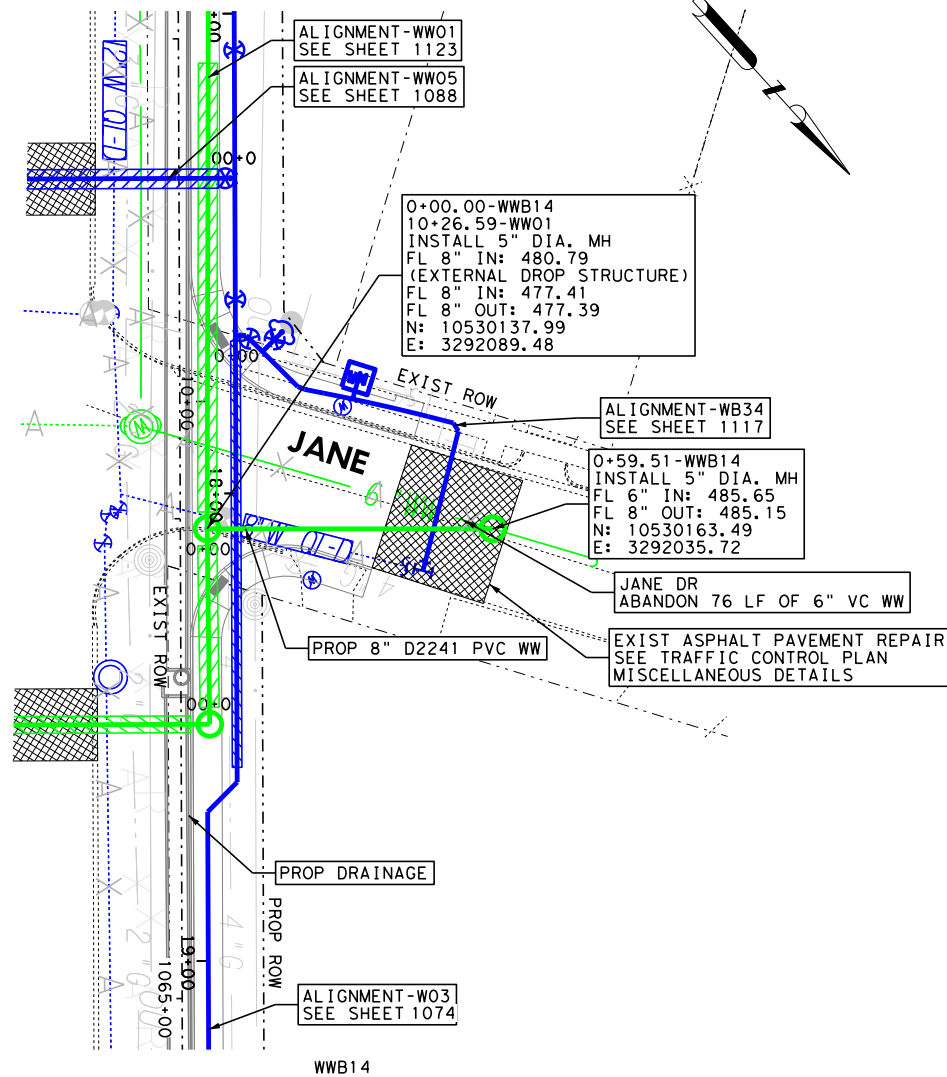


- NOTES:
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 - WASTEWATER MANHOLE COVERS SHALL WEIGHT AT LEAST 175LB AND BE DESIGNED FOR HS-20 LOADING.
 - ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 - BYPASS PUMPING OF THE NEAREST UPSTREAM EXISTING MANHOLE TO BE USED FOR CONSTRUCTION OF THE PROPOSED LINES WWB11, WWB12 & WWB13.

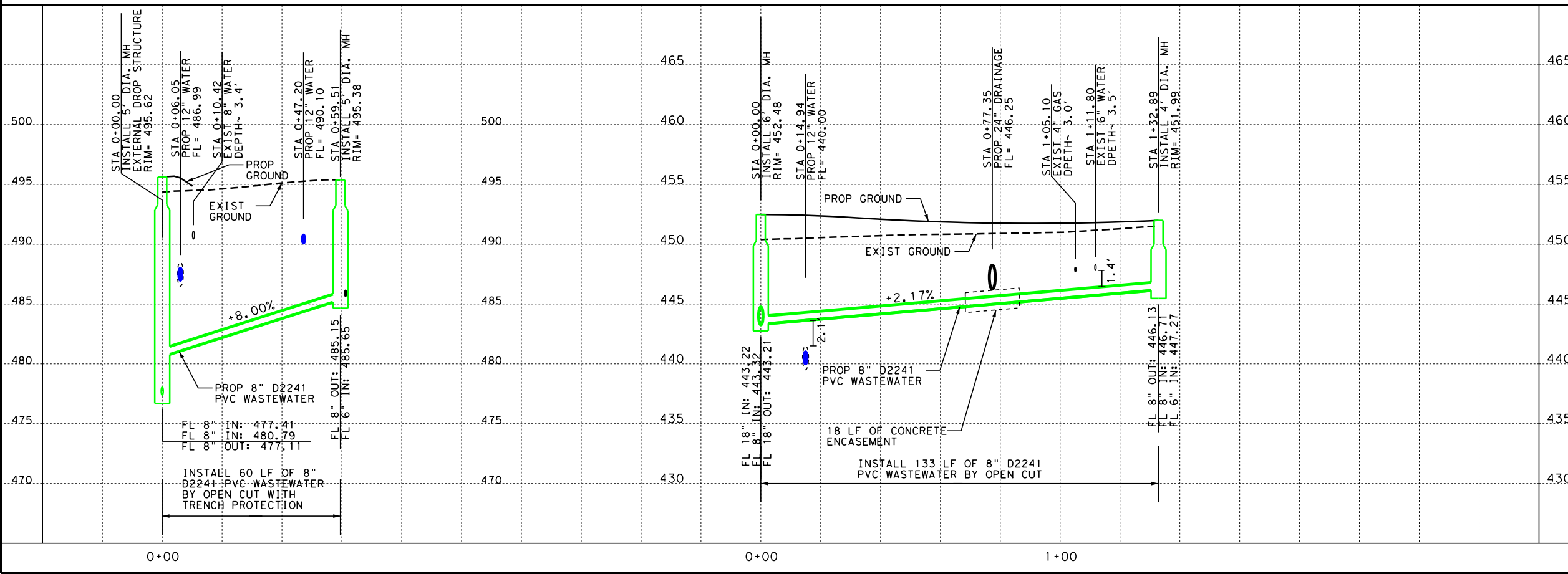


NO.	DATE	REVISION	APPROVED
			 MATT WOLFE 136362 07/17/2024
 Texas Department of Transportation © 2024			
 LINA T. RAMEY & ASSOCIATES, INC. 3320 Belt Line Rd Farmers Branch, Texas 75234 Firm Registration No. F-782			
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "11-12-13" PLAN AND PROFILE			
SHEET 1 OF 1			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1151	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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- NOTES:**
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 - ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 - BYPASS PUMPING OF THE NEAREST EXISTING UPSTREAM MANHOLE UP BELMONT DR & IRVING LEE TO BE USED FOR CONSTRUCTION OF THE PROPOSED LINE.



NO.	DATE	REVISION	APPROVED

MATT WOLFE
136362
07/17/2024

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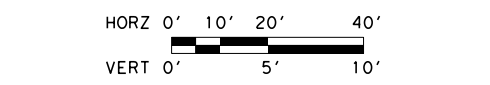
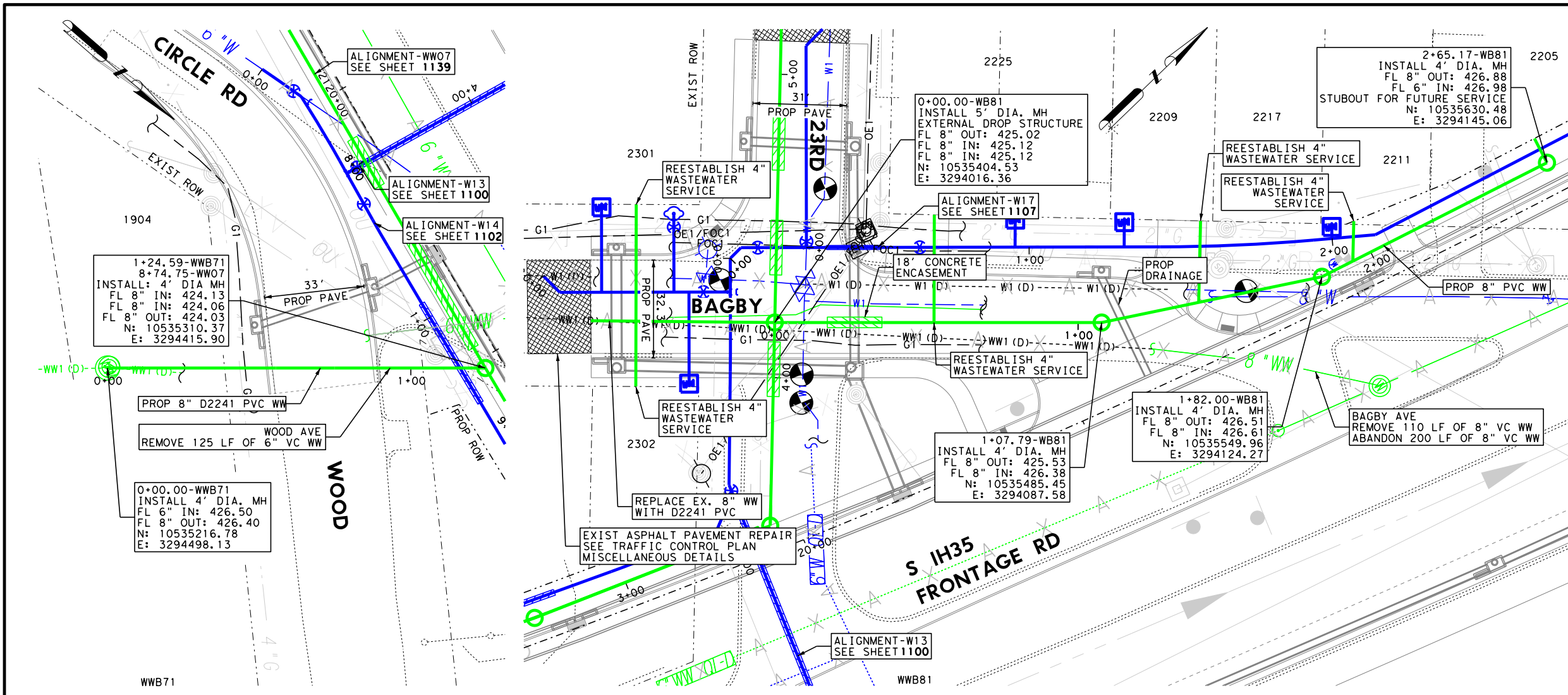
LTRA LINA T. RAMEY & ASSOCIATES, INC.
3320 Belt Line Rd
Farmers Branch, Texas 75234
Firm Registration No. F-782

IH 35 FROM S LP 340 TO 12TH ST
WASTE WATER LINE "14-41"
PLAN AND PROFILE

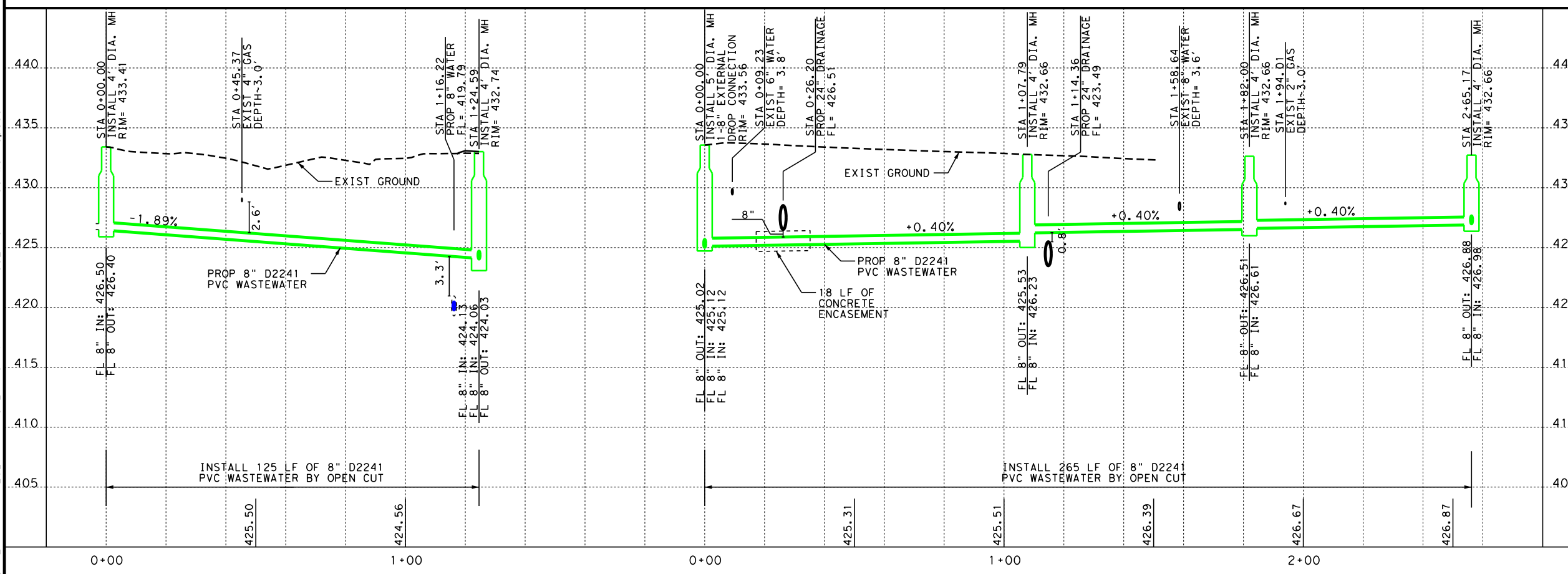
SHEET 1 OF 1

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1152	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
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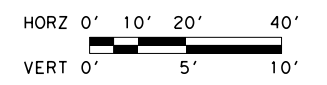
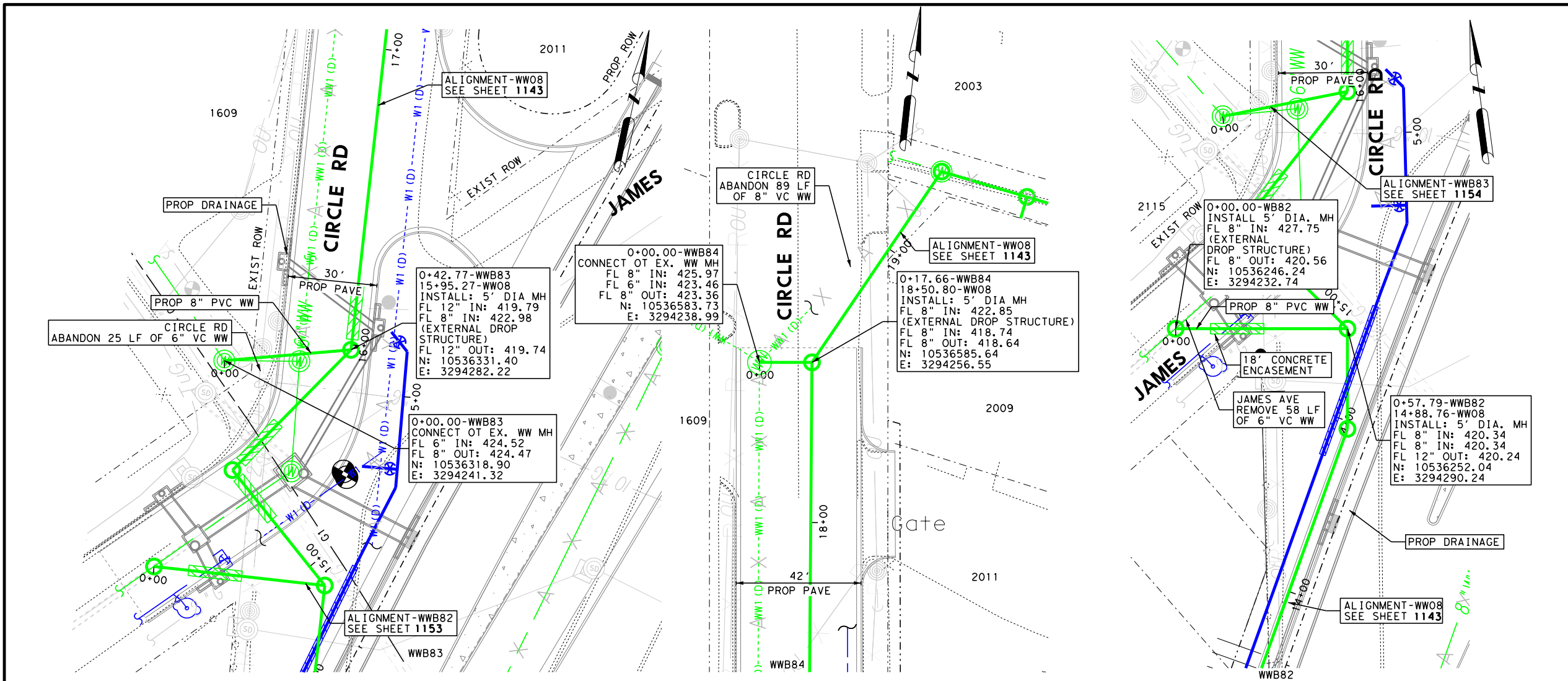


- NOTES:
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 3. MANHOLE GRADE RING TO BE INSTALLED 6" BELOW PROPOSED GRADE. MANHOLE FRAME AND COVER TO BE ADJUSTED TO PROPOSED GRADE WHEN PROPOSED GRADE IS CONSTRUCTED. SEE CITY OF WACO DETAILS S-5 & S-6.
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 6. WASTEWATER MANHOLE COVERS SHALL WEIGHT AT LEAST 175LB AND BE DESIGNED FOR HS-20 LOADING.
 7. ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.
 8. BYPASS PUMPING OF THE NEAREST UPSTREAM EXISTING MANHOLE TO BE USED FOR CONSTRUCTION OF THE PROPOSED LINES WWB71 & WWB81.

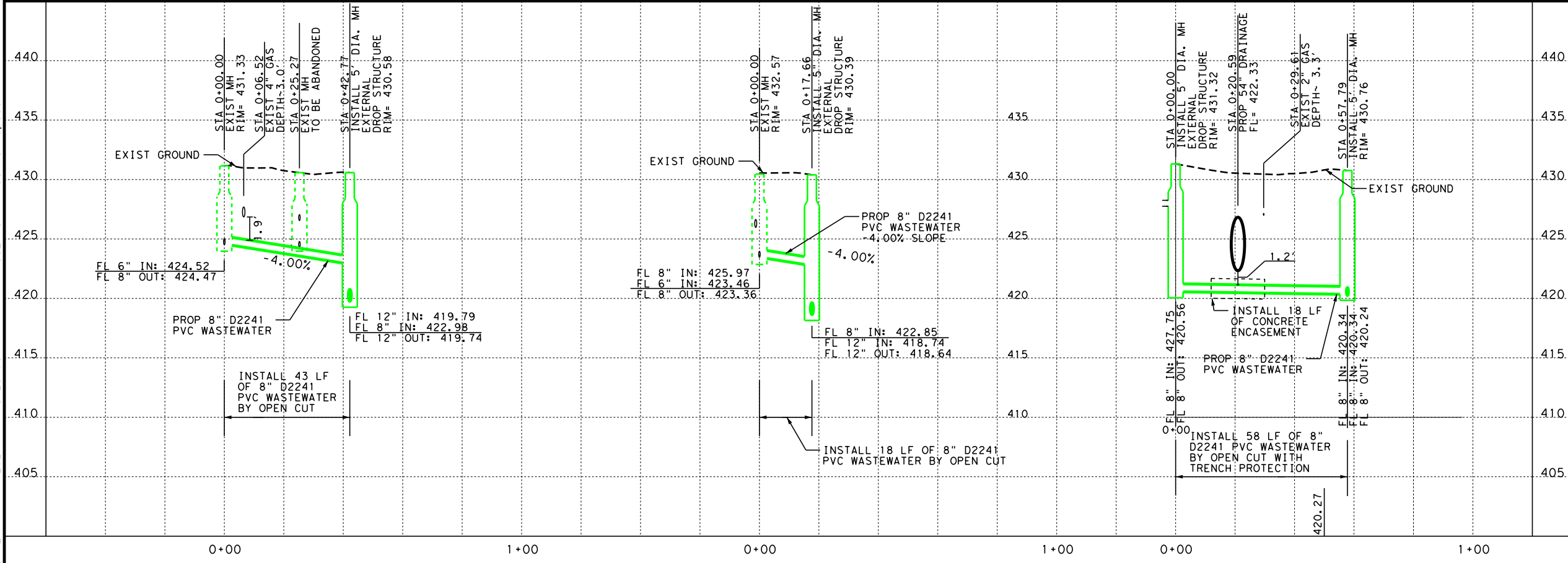


NO.	DATE	REVISION	APPROVED
			07/17/2024
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "71-81" PLAN AND PROFILE			
SHEET 1 OF 1			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1153	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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- NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
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 - ALL ABANDONED LINES ARE TO BE FILLED WITH FLOWABLE 100 PSI CEMENT GROUT.



NO.	DATE	REVISION	APPROVED
IH 35 FROM S LP 340 TO 12TH ST WASTE WATER LINE "83-84-82" PLAN AND PROFILE			
SHEET 1 OF 1			
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1154	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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WATER GENERAL NOTES

- PVC WATER MAIN COLOR SHALL BE BLUE.
- ALL WATER LINES SHALL BE COMPLETE IN PLACE INCLUDING ALL BENDS, BLOCKS, FITTINGS, SERVICES AND APPURTENANCES BEFORE PRESSURE TESTING.
- SURFACE REPLACEMENT SHALL BE INCLUDED IN THE UNIT PRICE FOR WATER SERVICES.
- PLACE METALLIC TRACER WIRE ON TOP OF EMBEDMENT PRIOR TO PLACEMENT OF WATER LINE AND CONNECT TO EACH SERVICE, VALVE AND FIRE HYDRANT. SEE DETAIL W-34
- METALLIC TRACER WIRE SHALL BE #12 AWG SOLID WIRE WITH A BLUE COATING. LOCATOR WIRE MUST TERMINATE IN AN APPROVED TRACER WIRE BOX. SEE DETAIL W-34
- ALL DUCTILE IRON WATER PIPE AND FITTINGS MUST BE POLY-WRAPPED PER CITY SPECIFICATIONS.
- A STAMPED "W" OF 4 IN. IN HEIGHT AND 3/8 IN. IN DEPTH SHALL BE PLACED IN THE CENTER OF FACE OF CURB AT EACH NEW SERVICE LOCATION AND IN ANY NEW CURB AT EXISTING SERVICES.
- ALL COPPER SERVICE PIPE MUST BE TYPE K-SOFT.
- ALL POLYETHYLENE SERVICE PIPE SHALL BE SDR-9 WITH EXTERIOR BLUE COLOR. CONTRACTOR SHALL USE 1 IN. OR 2 IN. CTS TUBING WITH STAINLESS STEEL INSERTS. ALL PIPE MUST MEET NSF 61, AWWA C901, ASTM D3350 AND ASTM D2737 STANDARD SPECIFICATIONS.
- 3/4 IN. WASHED ROCK SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR CONSTRUCTION ITEM A.2.a, CRUSHED STONE EMBEDMENT, OF SECTION 4.2 PART 2, EXCEPT THE GRADATION SHALL BE:



3/4 IN. WASHED ROCK	
SIEVE	PERCENTAGE RETAINED
1 1/2 IN.	0%
3/4 IN.	100%

- ALL SUBSTITUTIONS FOR USE AS A PRE-APPROVED EQUAL MUST BE SUBMITTED IN WRITING, AND APPROVED BY CITY ENGINEER, IN ADVANCE, IN ACCORDANCE WITH THE CURRENT VERSION OF THE CITY OF WACO STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- ANY DEVIATION FROM STANDARD DETAILS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER AND APPROVED IN WRITING BY CITY ENGINEER.

WATER SERVICE TAP NOTES

- WHERE NEW WATER SERVICES ARE INSTALLED UNDER EXISTING CURB AND GUTTER, THE CONTRACTOR WILL HAVE THE FOLLOWING OPTIONS:
 - REMOVE AND REPLACE CURB AND GUTTER SECTION FROM JOINT TO JOINT, TYPICALLY 10 FT.
 - CONSTRUCT MINIMUM SIZE TUNNEL NECESSARY TO INSTALL NEW WATER SERVICE AND THEN PLACE CONTROLLED LOW STRENGTH MATERIAL BENEATH THE EXISTING CURB AND GUTTER.
 - INSTALL SERVICE THROUGH A HOLE AT THE SAME LOCATION AS THE EXISTING PIPE, AND APPROXIMATELY THE SAME DIAMETER AS THE EXISTING PIPE.
- ALL SERVICE TAPS MUST BE MADE UNDER PRESSURE AND FLUSHED, OR TAPPED DRY AND THEN HAVE A SWAB PULLED THROUGH THE PIPE BEFORE CONNECTING THE TAPPED PIPE TO THE MAIN.
- 1-1/2 IN. AND 2 IN. METERS MUST BE BROUGHT TO THE WATER OFFICE TO BE TESTED. 3 IN. AND LARGER ARE TESTED IN THE FIELD BEFORE SERVICE IS APPROVED.
- ALL 1-1/2 IN. AND LARGER METERS SHALL BE SENSUS OMNI METERS WITH ITRON CONNECTORS.
- ALL EXTERNAL NUTS, BOLTS AND WASHERS SHALL BE STAINLESS STEEL.
- ALL SERVICE TAPS MUST BE APPROVED IN ADVANCE BY THE CITY OF WACO AND MUST BE PERFORMED UNDER THE DIRECT SUPERVISION OF A DESIGNATED CITY OF WACO UTILITY INSPECTOR. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN.



DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

	ENGINEERING DIVISION		REVISIONS			DATE 8/25/2021
			NO. COMMENTS BY DATE	W-1		
			## DESCRIPTION FL MO/DY/YEAR			



SANITARY SEWER GENERAL NOTES AND SERVICE TAP NOTES

- PVC SEWER MAIN PIPE COLOR SHALL BE GREEN.
- ALL PVC SANITARY SEWER PIPE AND FITTINGS SHALL BE SDR26 OR PS115.
- ALL PVC SANITARY SEWER SERVICES SHALL BE SCHEDULE 40 OR SDR26.
- A STAMPED "S" OF 4 IN. IN HEIGHT AND 3/8 IN. IN DEPTH SHALL BE PLACED IN THE CENTER OF THE FACE OF CURB, AT EACH NEW TAP LOCATION AND IN ANY NEW CURB IN GUTTER AT EXISTING SERVICES.
- PLEASE REFER TO STANDARD DETAIL S-2 FOR SEWER CLEANOUTS SITUATED IN A TRAFFIC AREA INCLUDING SIDEWALKS.
- FOR BEDDING EMBEDMENT AND BACK FILL ABOVE EMBEDMENT REFER TO STANDARD DETAILS G-8, G-9 AND G-10.
- BID ITEM FOR SEWER SERVICE INCLUDES EXCAVATION, WYE, SERVICE LINE, CLEANOUT, BOX, ALL FITTINGS, BACKFILL AND SURFACE REPLACEMENT.
- ALL WYES SHALL BE SAME MATERIAL SPECIFICATION AS THE MAIN IN REGARDS TO MATERIAL, SDR AND ASTM DESIGNATIONS.
- ALL SERVICE CONNECTIONS TO EXISTING SEWER PIPE SHALL BE MADE BY USING NON-SHEAR COUPLINGS AND RIGID FITTINGS.
- ALL ADAPTERS, BENDS, AND TEES ON SERVICE LINES SHALL BE FULLY ENCASED IN 6 IN. OF CONCRETE.
- WHERE NEW SANITARY SEWER SERVICES ARE INSTALLED UNDER EXISTING CURB AND GUTTER, THE CONTRACTOR WILL HAVE THE FOLLOWING OPTIONS:
 - REMOVE AND REPLACE ADEQUATE AMOUNT OF CURB AND GUTTER.
 - PLACE CONTROLLED LOW STRENGTH MATERIAL BENEATH THE EXISTING CURB AND GUTTER.
 - INSTALL SERVICE THROUGH A HOLE AT THE SAME LOCATION AS THE EXISTING PIPE, AND APPROXIMATELY THE SAME DIAMETER.
- ALL WATER AND SEWER CROSSINGS SHALL MEET TCEQ SEPARATION REQUIREMENTS. MINIMUM SEPARATION SHALL BE 6 INCHES. SEE STANDARD DETAIL S-19 AND S-20
- ANY UNDERGROUND DUCTILE IRON PIPE SHALL BE LINED WITH TNEC PERMA-SHIELD 431 OR A PRE-APPROVED EQUAL. USE OF DUCTILE IRON SANITARY SEWER PIPE SHALL BE PREAPPROVED BY THE CITY ENGINEER.
- STEEL PIPE CASING USED FOR AERIAL CROSSING SHALL BE PAINTED WITH TNEC SERIES 46H-413 COAL TAR EPOXY AT 60.0 DRY MILS. PAINTING IS SUBSIDIARY TO THE CASING.
- SEWER MAINS AND/OR SERVICES ENTERING INTO A MANHOLE MORE THAN 24 IN. ABOVE AN INVERT MUST HAVE A DROP FIXTURE.
- ALL SERVICE TAPS MUST BE APPROVED IN ADVANCE BY THE CITY OF WACO AND MUST BE PERFORMED UNDER THE DIRECT SUPERVISION OF A DESIGNATED CITY OF WACO UTILITY INSPECTOR. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN.
- PLEASE REFER TO CITY OF WACO STANDARD DETAILS FOR AIR RELEASE VALVES ON FORCE MAINS.
- FILL ALL ABANDONED CONDUITS GREATER THAN 6 IN. DIAMETER WITH CONTROLLED LOW STRENGTH MATERIAL.

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

	ENGINEERING DIVISION		REVISIONS			DATE 8/25/2021
			NO. COMMENTS BY DATE	S-1		
			1 MODIFY NOTE 10 MZ 06/15/2023 ## DESCRIPTION FL MM/DD/YYYY			

NO.	DATE	REVISION	APPROVED


 Texas Department of Transportation
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LTRA LINA T. RAMEY & ASSOCIATES, INC.
 3320 Belt Line Rd
 Farmers Branch, Texas 75234
 Firm Registration No. F-782

IH 35 FROM S LP 340 TO 12TH ST

**GENERAL NOTES
CITY OF WACO**

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
6	SEE TITLE SHEET	1155
STATE	DIST.	COUNTY
TEXAS	WACO	McLENNAN
CONT.	SECT.	JOB HIGHWAY NO.
0015	01	246, ETC IH 35

LIMITED SPACE FIRE HYDRANT SETTING

USE OF THIS DETAIL IS ONLY ALLOWED WHEN THERE IS INSUFFICIENT ROOM TO USE STANDARD DETAIL W-2

NOTES:

- FIRE HYDRANT TO BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- CONTRACTOR TO REMOVE CHAINS FROM FIRE HYDRANT CAPS.
- GATE VALVE IS REQUIRED TO BE CONNECTED DIRECTLY TO THE TEE.
- MAINS VARY IN SIZE - REFER TO BLOCKING DETAILS W-3A TO W-3D.
- ON RURAL STREET SECTIONS, FIRE HYDRANT SHALL BE PLACED ON THE TOP BANK BACKSIDE OF DITCH.
- ALL FITTINGS ON FIRE HYDRANT LEAD NEED TO BE EBBA IRON, INC. MEGALUG OR PRE-APPROVED EQUAL.
- LEAD SHALL BE DIP IN ALL CASES, SHALL BE 6 IN. MIN. AND SHALL BE POLY WRAPPED.
- GRADELOK OR PRE-APPROVED EQUAL REQUIRED. (INCLUDED IN FIRE HYDRANT BID ITEM) (SEE DETAIL W-2)
- 6 IN. X 6 IN. GRADELOK SHALL BE REQUIRED IN MOST CASES; HOWEVER, CONTRACTOR MAY USE A 6 IN. X 12 IN. GRADELOK TO ACCOMMODATE SITE CONDITIONS. **HYDRANT EXTENSIONS WILL NOT BE ALLOWED.**
- PRE-PACKAGED CONCRETE MIX SHALL NOT BE PERMITTED FOR USE IN CONCRETE DIAMOND.
- REF. PAV. MKR TY II-B-B TO BE PLACED 1 FT. FROM CENTERLINE OF STREET(S) ON SIDE OF FIRE HYDRANT FACING THE STEAMER CAP.

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

NO.	REVISIONS	BY	DATE
	COMMENTS		8/25/2021
1	UPDATE REF TO STD DETAILS AND NOTES	MZ	01/25/2023
	# DESCRIPTION	FL	MMDDYYYY

ENGINEERING DIVISION

WACO

DATE: 8/25/2021

W-2A

GENERAL NOTES: THRUST BLOCKS

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

- SEE W-1 AND W-4 FOR ADDITIONAL GENERAL NOTES.
- ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 PSI FOR 24 IN. I.D. PIPE AND SMALLER AND 150 PSI ON 30 IN. AND LARGER.
- VOLUMES OF VERTICAL BEND THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED. THE CORRESPONDING WEIGHT OF THE CONCRETE (4000 LB/C.Y.) IS EQUAL TO OR GREATER THAN THE VERTICAL COMPONENT OF THRUST ON THE VERTICAL BEND.
- CONCRETE FOR ALL BEARING SURFACES OF THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED EARTH OR ROCK.
- WALL THICKNESS (T) ASSUMED HERE FOR ESTIMATING PURPOSES ONLY.
- CONCRETE FOR BLOCKING SHALL BE 2000 PSI CONCRETE.
- DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUBMIT TO THE PUBLIC WORKS DEPARTMENT A LISTING OF ALL MATERIALS TO BE USED. NO WORK SHALL BE UNDERTAKEN PRIOR TO WRITTEN APPROVAL OF THE MATERIAL LIST BY THE CITY PUBLIC WORKS DEPARTMENT.
- CONCRETE SHALL NOT EXTEND BEYOND JOINTS.
- USE 6 MIL POLYETHYLENE WRAP OR EQUAL BETWEEN CONCRETE AND BENDS TO PREVENT CONCRETE FROM STICKING TO BENDS.

- VOLUMETRIC CONCRETE MIXER TRUCK CONCRETE WILL BE PERMITTED FOR THRUST BLOCKS.
- SUBMITTALS OF MIX OR PRODUCT MUST BE PROVIDED.
- FOR NON-PLANT BATCHED CONCRETE FOR THRUST BLOCK LOCATIONS OF 2 CY OR LESS, MATERIAL SAMPLING AND TESTING FOR COMPRESSIVE STRENGTH WILL BE REQUIRED AT COST OF DEVELOPER'S CONTRACTOR. A MINIMUM OF ONCE PER FIRST USE ON PROJECT AND AS REQUIRED BY THE ENGINEERING INSPECTOR.
- LOCATIONS WITH QUANTITIES GREATER THAN 2 CY SHALL BE PLACED WITH EITHER PLANT BATCHED CONCRETE DELIVERED BY CONCRETE MIXING TRUCK(S) OR VOLUMETRIC CONCRETE MIXER TRUCK CONCRETE.

GENERAL NOTES: THRUST BLOCKS

NO.	REVISIONS	BY	DATE
	COMMENTS		8/25/2021
1	UPDATE REF TO STD DETAILS AND NOTES	MZ	01/25/2023
	# DESCRIPTION	FL	MMDDYYYY

ENGINEERING DIVISION

WACO

DATE: 8/25/2021

W-3A

WATER VALVE BOX EXTENSION INSTALLATION

(NO SCALE)

NOTES:

- STEM EXTENSION SHALL BE REQUIRED WHEN VALVE NUT BURY DEPTH EXCEEDS 48 IN.
- ALL STEM EXTENSIONS SHALL BE CLIPPED TO THE VALVE NUT.
- SUBGRADE WILL BE PLACED AND COMPACTED IN ACCORDANCE WITH SPECIFICATIONS.
- STABILIZED BASE WILL BE PLACED TO GRADE IN ACCORDANCE WITH SPECIFICATIONS.
- SOIL, SUBGRADE, AND STABILIZED BASE OVER VALVE BOX SHALL BE REMOVED AND THE VALVE BOX INSTALLED TO PROPER FINAL ELEVATION.
- ANY EXCAVATED AREA BELOW THE SURFACE REPLACEMENT SHALL BE FILLED WITH 2000 PSI CONCRETE OR CONTROLLED LOW STRENGTH MATERIAL (CLSM). CARE SHALL BE EXERCISED IN THE CONCRETE OR CLSM PLACEMENT TO PREVENT ANY VOIDS BELOW OR AROUND THE VALVE BOX.
- PLEASE REFER TO STANDARD DETAIL G-9 FOR ASPHALT SURFACE REPLACEMENT.
- IN UNPAVED RURAL AREAS WITHIN THE RIGHT-OF-WAY, A 3 FT. X 3 FT. X 8 IN. THICK REINFORCED (2-#4 EACH WAY, 3 IN. CLEAR SIDES AND BOTTOM) CONCRETE DIAMOND SHALL REPLACE THE ASPHALT SURFACE REPLACEMENT NOTED ABOVE. THE CONCRETE DIAMOND SHALL BE CENTERED ON THE VALVE BOX, HAVE A BROOM FINISH AND SHALL BE PLACED TO GRADE. (NOTES 3 - 7 AND NOTE 9 DO NOT APPLY). PLEASE REFER TO STANDARD DETAIL G-9 FOR CLASS E SURFACE REPLACEMENT.
- IN DEVELOPED AREAS OUTSIDE OF THE PAVEMENT, AN 24 IN. X 24 IN. X 8 IN. THICK REINFORCED (2-#4 EACH WAY, 3 IN. CLEAR SIDES AND BOTTOM) CONCRETE DIAMOND WILL REPLACE THE CLASS B SURFACE REPLACEMENT NOTED ABOVE. THE CONCRETE DIAMOND SHALL BE CENTERED ON THE VALVE BOX, HAVE A BROOM FINISH AND SHALL BE PLACED TO GRADE. (NOTES 4 - 8 DO NOT APPLY). PLEASE REFER TO STANDARD DETAILS G-9 FOR CLASS E SURFACE REPLACEMENT.
- PRE-PACKAGED CONCRETE MIX NOT PERMITTED FOR USE IN CONCRETE DIAMOND.

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

NO.	REVISIONS	BY	DATE
	COMMENTS		02/08/2022
1	ADD CLARITY OF MATERIAL FOR VALVE BOX EXTENSION	MZ	06/15/2023
2	REFER TO STD DETAIL WITH NOTE	MZ	01/25/2023
1	REVISE "SEE W-8A AND W-8B" TO "SEE W-8"	MZ	01/10/2022
	# DESCRIPTION	FL	MMDDYYYY

ENGINEERING DIVISION

WACO

DATE: 02/08/2022

W-7

FIRE HYDRANT SETTING

(NO SCALE)

NOTES:

- FIRE HYDRANT TO BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- CONTRACTOR TO REMOVE CHAINS FROM FIRE HYDRANT CAPS.
- GATE VALVE IS REQUIRED TO BE CONNECTED DIRECTLY TO THE TEE.
- MAINS VARY IN SIZE - REFER TO BLOCKING DETAILS W-3A TO W-3D.
- ON RURAL STREET SECTIONS, FIRE HYDRANT SHALL BE PLACED ON THE TOP BANK BACKSIDE OF DITCH.
- ALL FITTINGS ON FIRE HYDRANT LEAD NEED TO BE EBBA IRON, INC. MEGALUG OR PRE-APPROVED EQUAL.
- LEAD SHALL BE DIP IN ALL CASES, SHALL BE 6 IN. MIN. AND SHALL BE POLY WRAPPED.
- ON RURAL STREET SECTIONS, FIRE HYDRANT SHALL BE PLACED ON THE TOP BANK BACKSIDE OF DITCH.
- 6 IN. X 6 IN. GRADELOK SHALL BE REQUIRED IN MOST CASES; HOWEVER, CONTRACTOR MAY USE A 6 IN. X 12 IN. GRADELOK TO ACCOMMODATE SITE CONDITIONS. **HYDRANT EXTENSIONS WILL NOT BE ALLOWED.**
- PRE-PACKAGED CONCRETE MIX SHALL NOT BE PERMITTED FOR USE IN CONCRETE DIAMOND.
- REF. PAV. MKR TY II-B-B TO BE PLACED 1 FT. FROM CENTERLINE OF STREET(S) ON SIDE OF FIRE HYDRANT FACING THE STEAMER CAP.

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NO.	REVISIONS	BY	DATE
	COMMENTS		8/25/2021
1	UPDATE REF TO STD DETAILS AND NOTES	MZ	01/25/2023
	# DESCRIPTION	FL	MMDDYYYY

ENGINEERING DIVISION

WACO

DATE: 8/25/2021

W-2

TYPICAL HORIZONTAL THRUST BLOCK

(NO SCALE)

GENERAL NOTES:

- SEE W-1 AND W-4 FOR ADDITIONAL GENERAL NOTES.
- ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 PSI FOR 24 IN. I.D. PIPE AND SMALLER AND 150 PSI ON 30 IN. AND LARGER.
- VOLUMES OF VERTICAL BEND THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED. THE CORRESPONDING WEIGHT OF THE CONCRETE (4000 LB/C.Y.) IS EQUAL TO OR GREATER THAN THE VERTICAL COMPONENT OF THRUST ON THE VERTICAL BEND.
- CONCRETE FOR ALL BEARING SURFACES OF THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED EARTH OR ROCK.
- WALL THICKNESS (T) ASSUMED HERE FOR ESTIMATING PURPOSES ONLY.
- CONCRETE FOR BLOCKING SHALL BE 2000 PSI CONCRETE.
- DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUBMIT TO THE PUBLIC WORKS DEPARTMENT A LISTING OF ALL MATERIALS TO BE USED. NO WORK SHALL BE UNDERTAKEN PRIOR TO WRITTEN APPROVAL OF THE MATERIAL LIST BY THE CITY PUBLIC WORKS DEPARTMENT.
- CONCRETE SHALL NOT EXTEND BEYOND JOINTS.
- USE 6 MIL POLYETHYLENE WRAP OR EQUAL BETWEEN CONCRETE AND BENDS TO PREVENT CONCRETE FROM STICKING TO BENDS.

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NO.	REVISIONS	BY	DATE
	COMMENTS		8/25/2021
1	UPDATE REF TO STD DETAILS AND NOTES	MZ	01/25/2023
	# DESCRIPTION	FL	MMDDYYYY

ENGINEERING DIVISION

WACO

DATE: 8/25/2021

W-3B

NO.	DATE	REVISION	APPROVED

NO. DATE REVISION APPROVED

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Firm Registration No. F-782

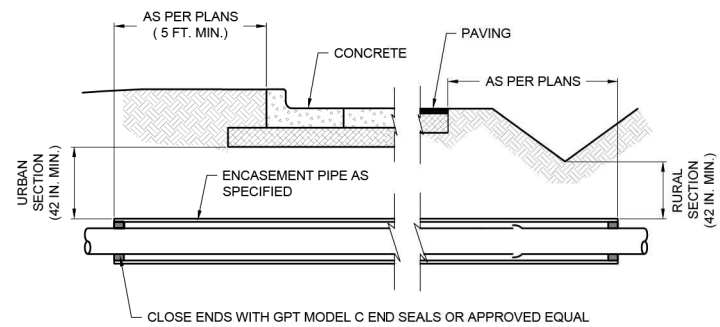
IH 35 FROM S LP 340 TO 12TH ST

WATER DETAILS SHEET 1

SHEET 1 OF 5

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
6	SEE TITLE SHEET	1156
STATE	DIST.	COUNTY
TEXAS	WACO	McLENNAN
CONT.	SECT.	JOB HIGHWAY NO.
0015	01	246, ETC IH 35

FILE: pwt\pw-int.hntb.org\PwCenter\ID\Documents\Dallas Projects\68651 Waco IH 35 4C\CAD\Sheets\06 - Utilities\IH35*Water*detail.s*2.dgn
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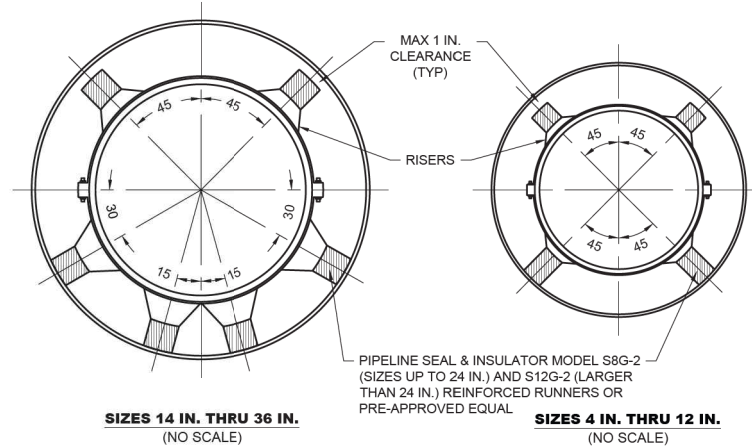
NOTES:

1. MINIMUM SIZE OF CASING SHALL BE 12 IN. LARGER THAN THE NOMINAL PIPE DIAMETER.
2. CASING SHALL BE STEEL WITH A MINIMUM WALL THICKNESS OF:
 - 1/4 IN. FOR CASINGS UP TO AND INCLUDING 18 IN.
 - 3/8 IN. FOR CASINGS LARGER THAN 18 IN., UP TO AND INCLUDING 24 IN.
 - 1/2 IN. FOR CASINGS GREATER THAN 24 IN. UP TO AND INCLUDING 42 IN.
3. THE MINIMUM THICKNESS FOR ALL CASINGS GREATER THAN 42 IN. DIA. SHALL BE DETERMINED BY THE ENGINEER OF RECORD, AND SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF WACO PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION.
4. ALL PIPE IN CASING SHALL BE JOINT RESTRAINED.
5. ALL CASINGS WITH LESS THAN 24 IN. OF COVER SHALL BE PAINTED PER STANDARD SPECIFICATIONS AND SHALL BE COATED WITH TNEPEC PERMA-SHIELD SERIES 46H-413 COAL TAR EPOXY.
6. ALL CARRIER PIPE SHALL BE INSTALLED USING PRE-APPROVED CASING SPACERS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

BORE DETAIL
(NO SCALE)

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

	ENGINEERING DIVISION		REVISIONS		DATE
			NO.	COMMENTS	BY
					8/25/2021
					W-31
#	DESCRIPTION	DATE	BY	DATE	



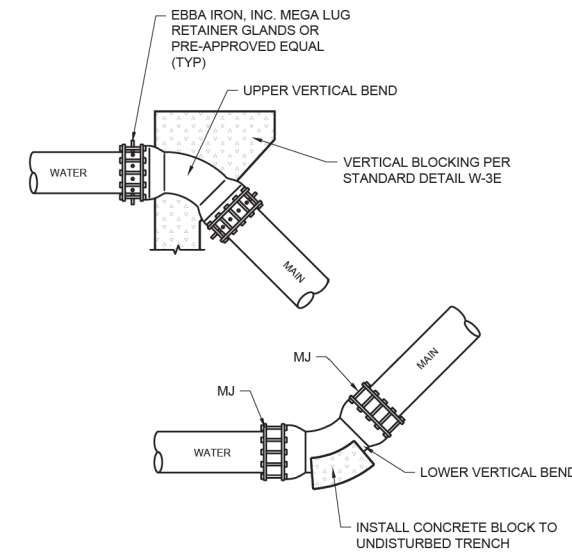
REQUIRED INSTALLATION PRACTICES FOR PIPE IN CASINGS ARE:

1. MINIMUM SIZE OF CASING SHALL BE 12 IN. LARGER THAN THE NOMINAL PIPE DIAMETER.
2. BELL MUST MAINTAIN A MINIMUM OF 1 IN. CLEARANCE FROM CASING WALL.
3. THE PIPE MUST BE BRACED AND ANCHORED IN A MANNER THAT PREVENTS MOVEMENT IN ANY DIRECTION.
4. THE PIPE MUST BE INSTALLED IN A MANNER THAT WILL PERMIT ITS REMOVAL WITH REASONABLE EASE, SHOULD THIS BE NECESSARY AT A LATER DATE.
5. PLACE SPACERS AT NO MORE THAN 2 FT. FROM EACH JOINT AND A MAXIMUM SPACING OF 5 FT. OR LESS AS PER MANUFACTURER'S RECOMMENDATION.
6. SPACERS MUST BE A MAXIMUM OF 1 IN. FROM CASING WALL.
7. CASING SHALL BE STEEL WITH A MINIMUM WALL THICKNESS OF:
 - 1/4 IN. FOR CASINGS UP TO AND INCLUDING 18 IN.
 - 3/8 IN. FOR CASINGS LARGER THAN 18 IN., UP TO AND INCLUDING 24 IN.
 - 1/2 IN. FOR CASINGS GREATER THAN 24 IN., UP TO AND INCLUDING 42 IN.
8. THE MINIMUM THICKNESS FOR ALL CASINGS GREATER THAN 42 IN. DIA. SHALL BE DETERMINED BY THE ENGINEER OF RECORD, AND SUBMITTED FOR REVIEW AND APPROVED BY THE CITY OF WACO PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION.
9. ALL CASINGS WITH LESS THAN 24 IN. OF COVER SHALL BE PAINTED PER STANDARD SPECIFICATIONS AND SHALL BE COATED WITH TNEPEC PERMA-SHIELD SERIES 46H-413 COAL TAR EPOXY.
10. CASING SPACERS SHALL BE UTILIZED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

PIPE THROUGH CASING DETAIL
(NO SCALE)

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

	ENGINEERING DIVISION		REVISIONS		DATE
			NO.	COMMENTS	BY
					8/25/2021
					W-32
#	DESCRIPTION	DATE	BY	DATE	



NOTES:

1. VERTICAL BENDS SHALL HAVE MEGALUG FITTINGS ON EACH SIDE.
2. SEE STANDARD DETAILS W-3A TO W-3E FOR BLOCKING DETAILS AND TABLES.
3. PROJECT ENGINEER SHALL PROVIDE RESTRAINT LENGTH. RESTRAINT LENGTH MINIMUM IS 25 FT. FROM BEND.

VERTICAL BEND DETAIL
(NO SCALE)

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

	ENGINEERING DIVISION		REVISIONS		DATE
			NO.	COMMENTS	BY
					8/25/2021
					W-4
#	DESCRIPTION	DATE	BY	DATE	

NO.	DATE	REVISION	APPROVED

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 Farmers Branch, Texas 75234

 Firm Registration No. F-782

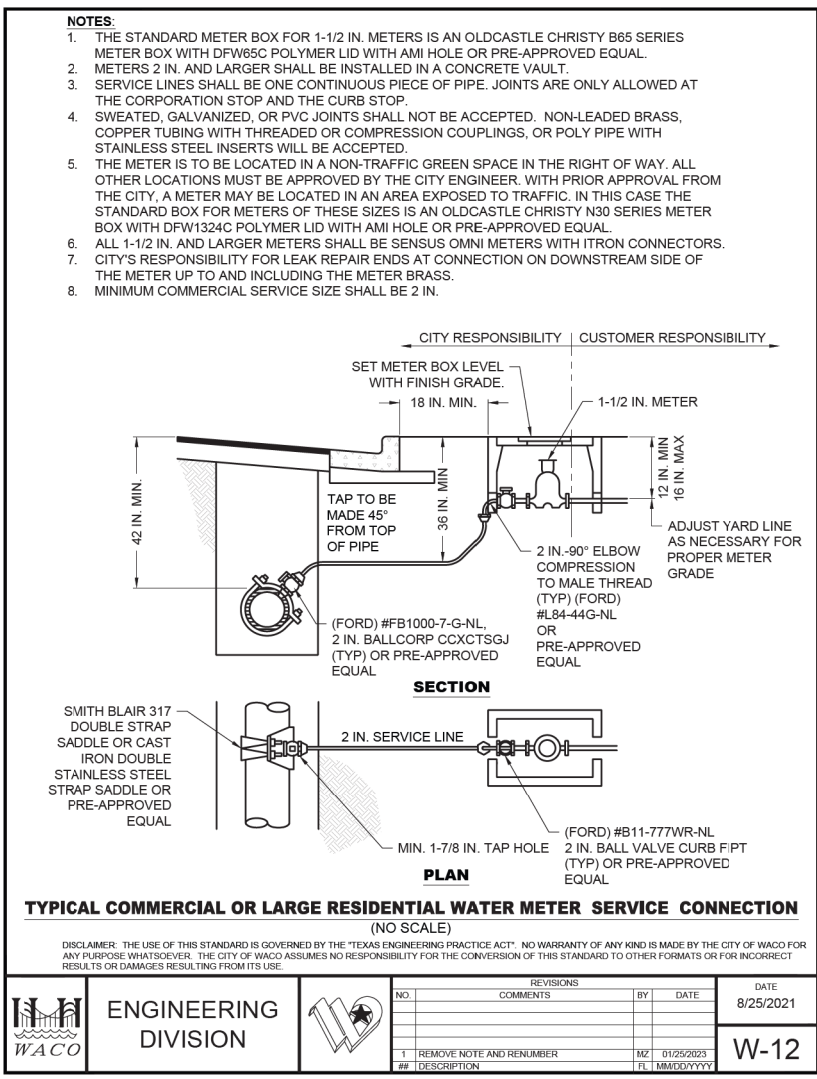
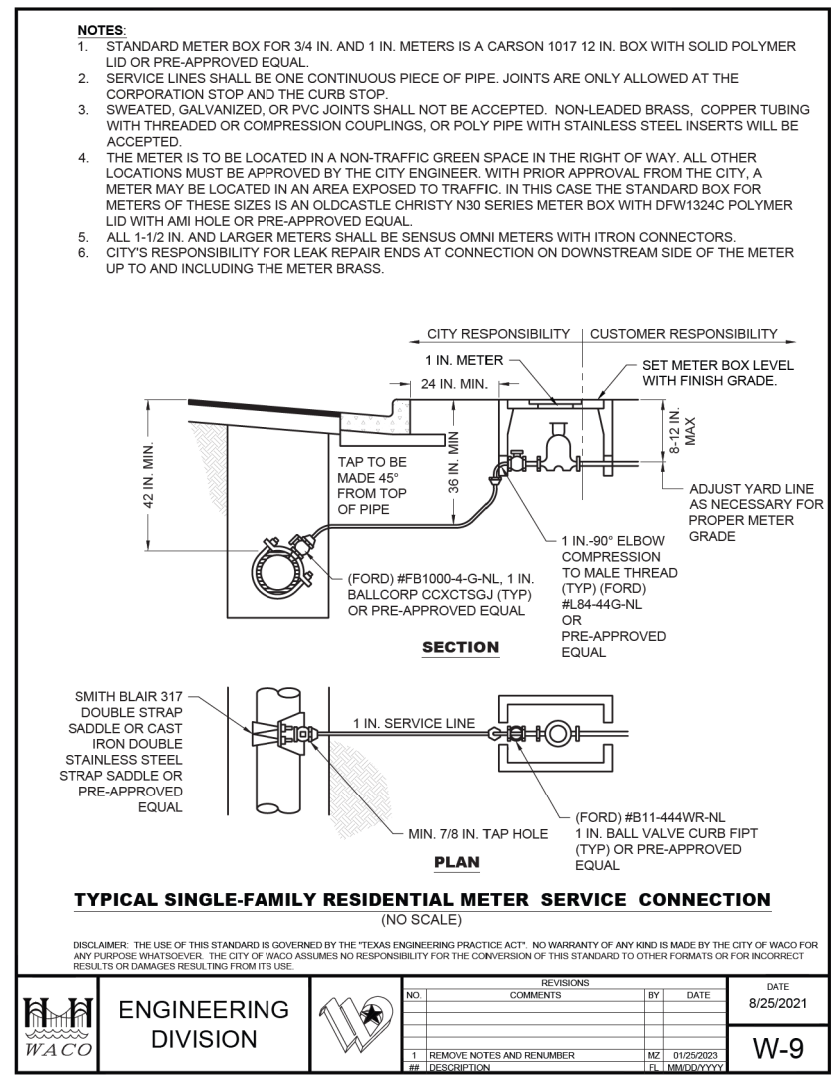
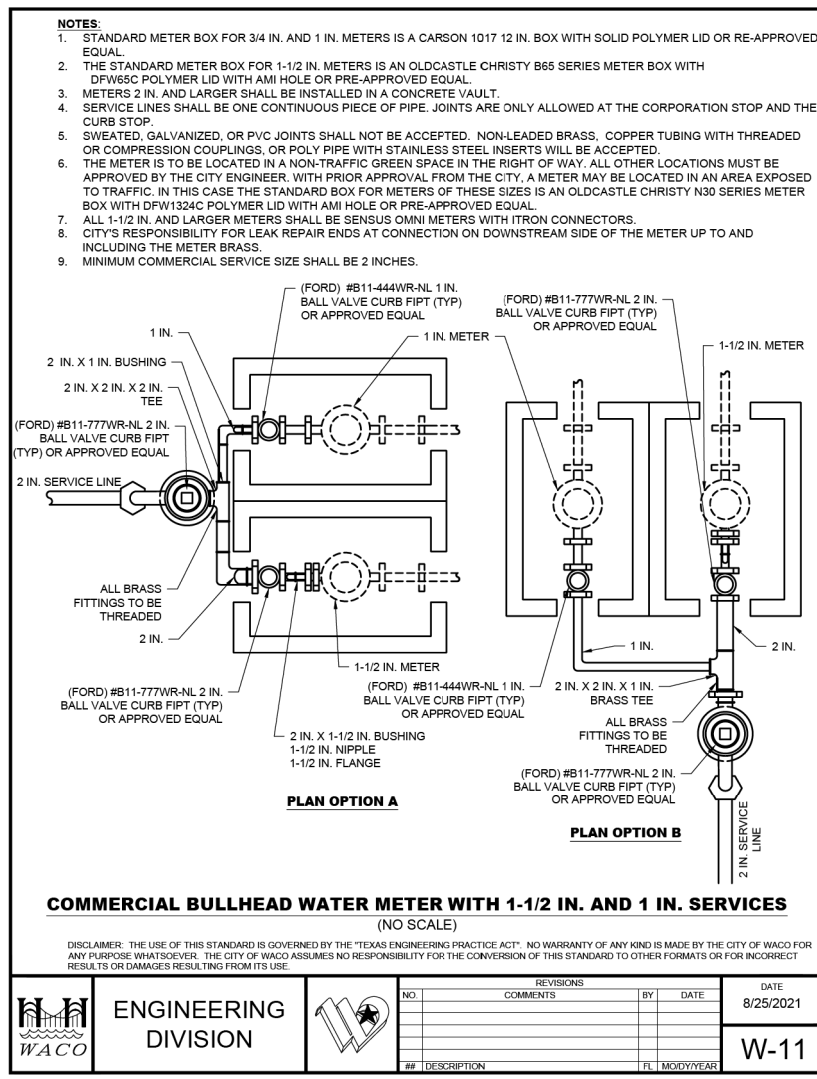
IH 35 FROM S LP 340 TO 12TH ST

WATER DETAILS SHEET 2

SHEET 2 OF 5

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1157	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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NO.	DATE	REVISION	APPROVED

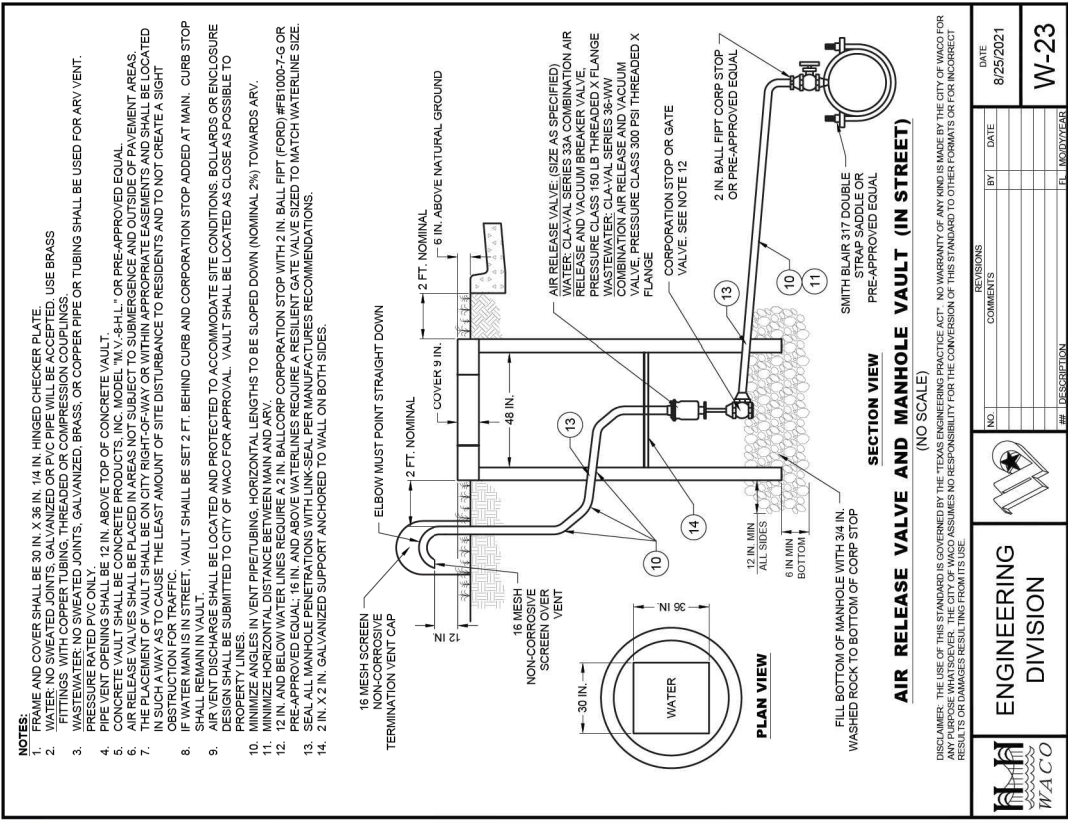
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IH 35 FROM S LP 340 TO 12TH ST

WATER DETAILS SHEET 4

SHEET 4 OF 5

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1159	
STATE	DIST.	COUNTY	
TEXAS	WACO	McLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

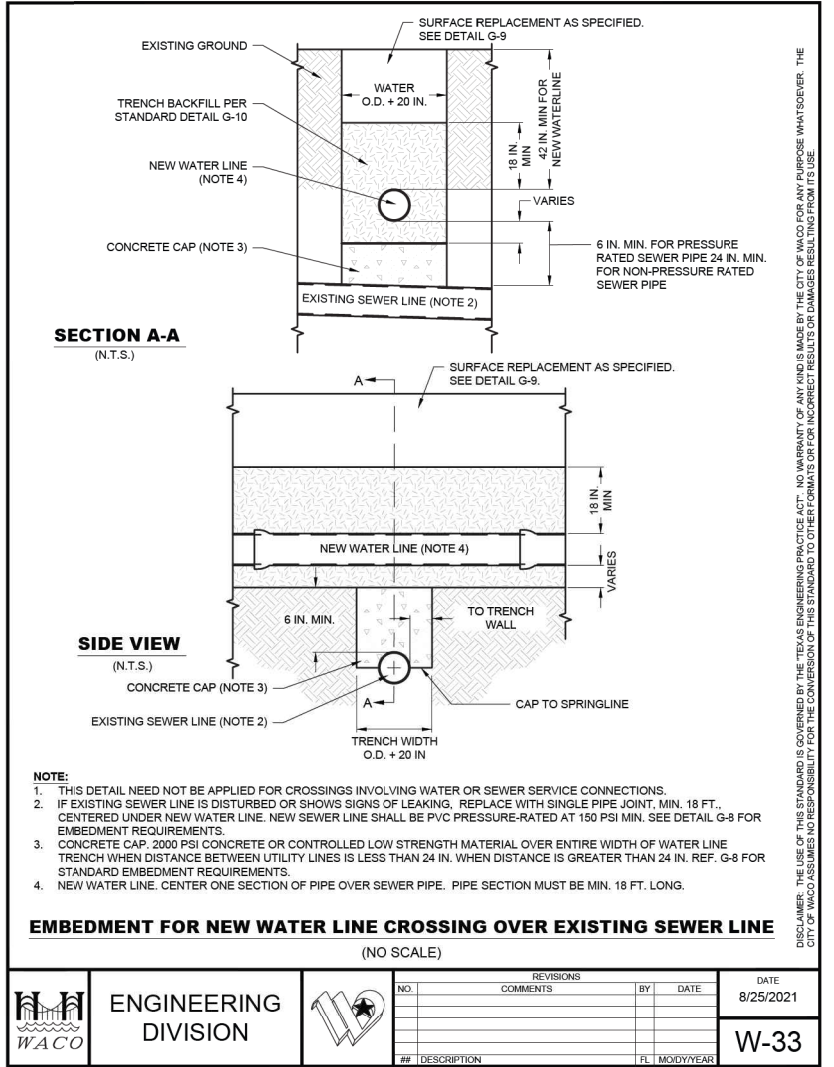
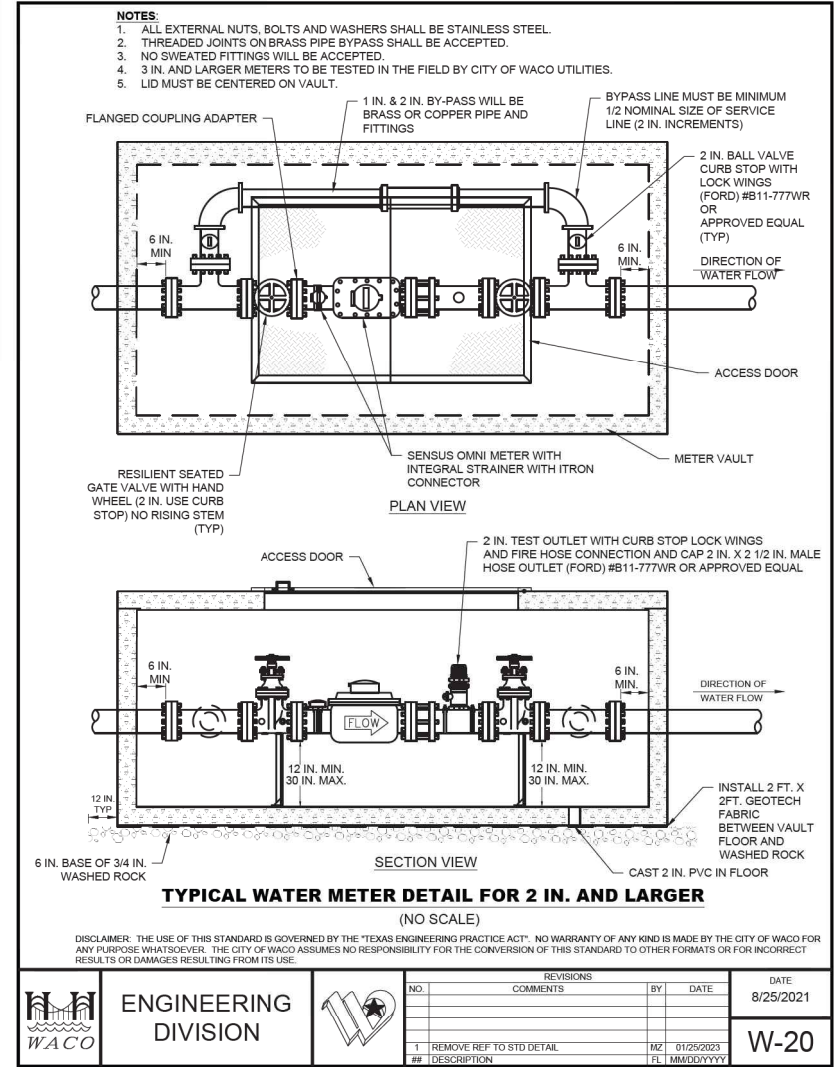
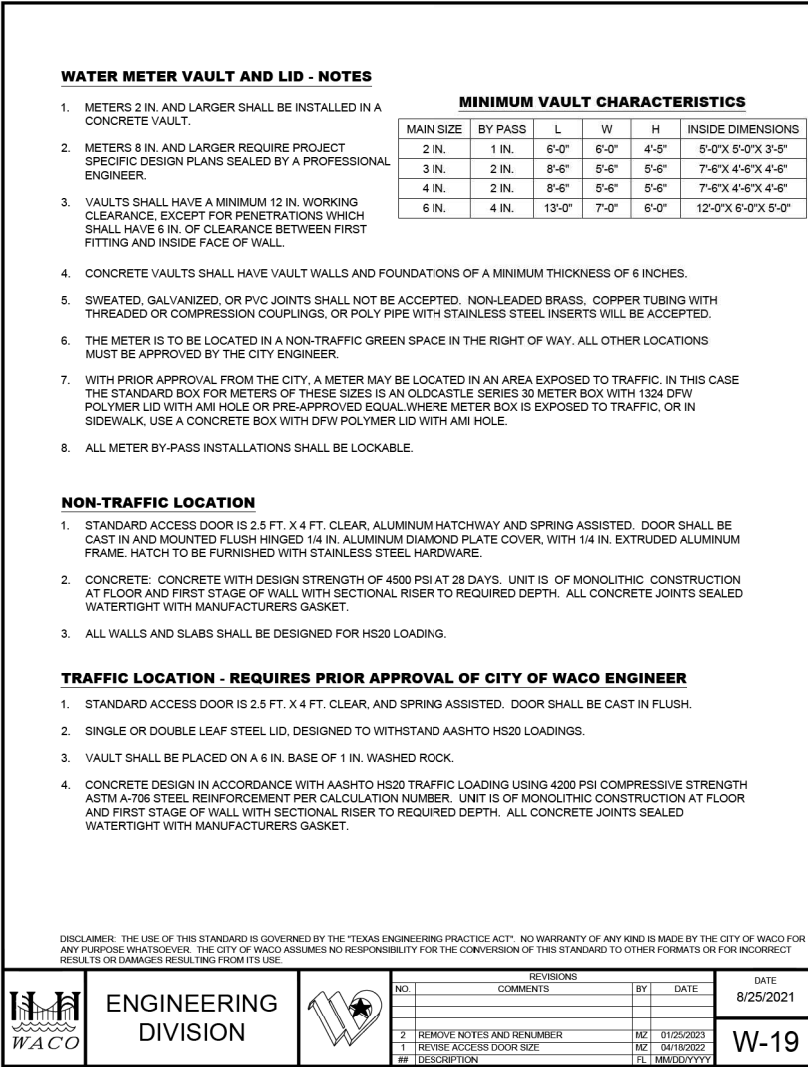


NO.	REVISIONS	BY	DATE
1	REMOVE NOTES AND RENUMBER	HZ	01/25/2023
2	REVISE ACCESS DOOR SIZE	HZ	04/18/2022
3	DESCRIPTION	FL	MM/DD/YYYY

DATE: 8/25/2021

ENGINEERING DIVISION

W-23



NO.	DATE	REVISION	APPROVED

NO. DATE REVISION APPROVED

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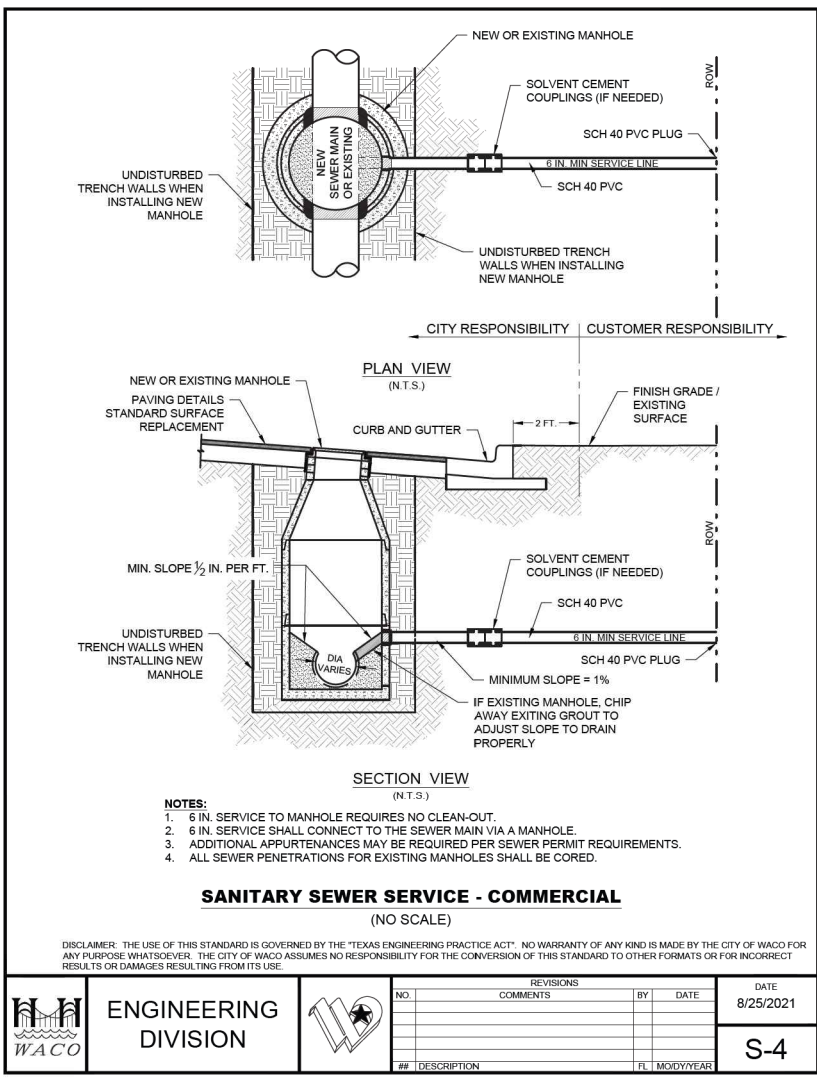
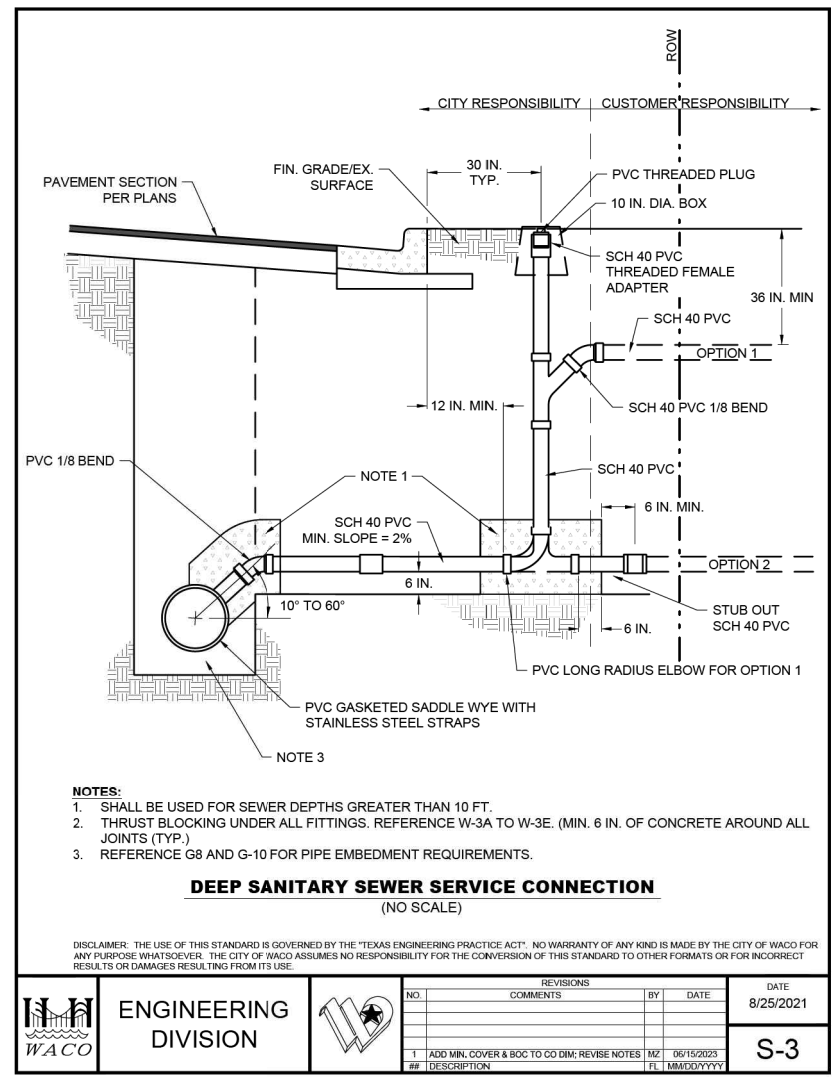
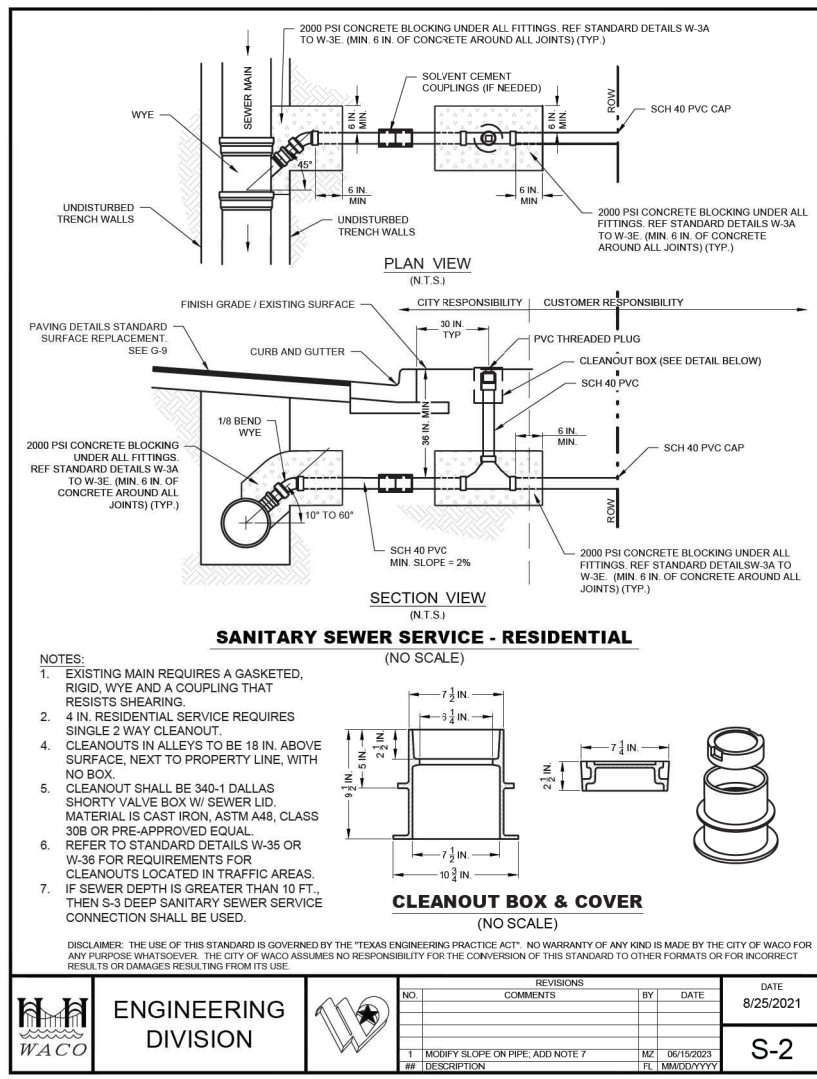
IH 35 FROM S LP 340 TO 12TH ST

WATER DETAILS SHEET 5

SHEET 5 OF 5

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1160	
STATE	DIST.	COUNTY	
TEXAS	WACO	McLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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NO.	DATE	REVISION	APPROVED

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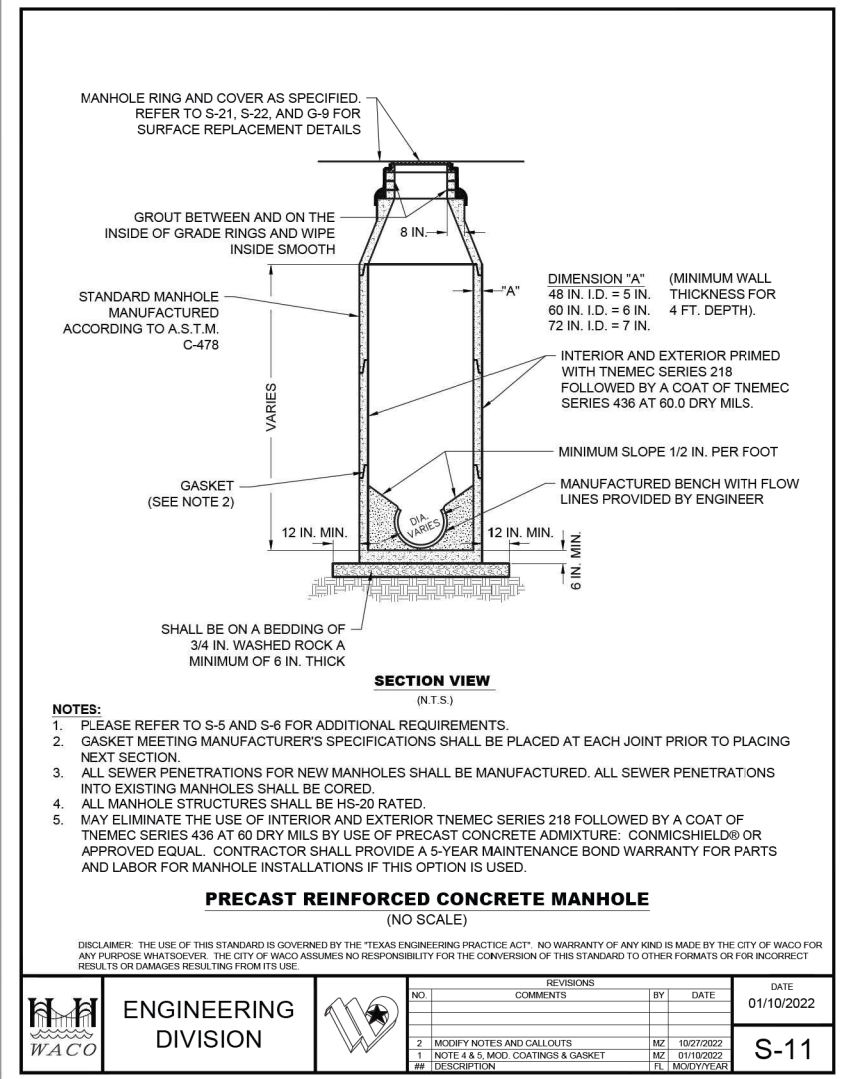
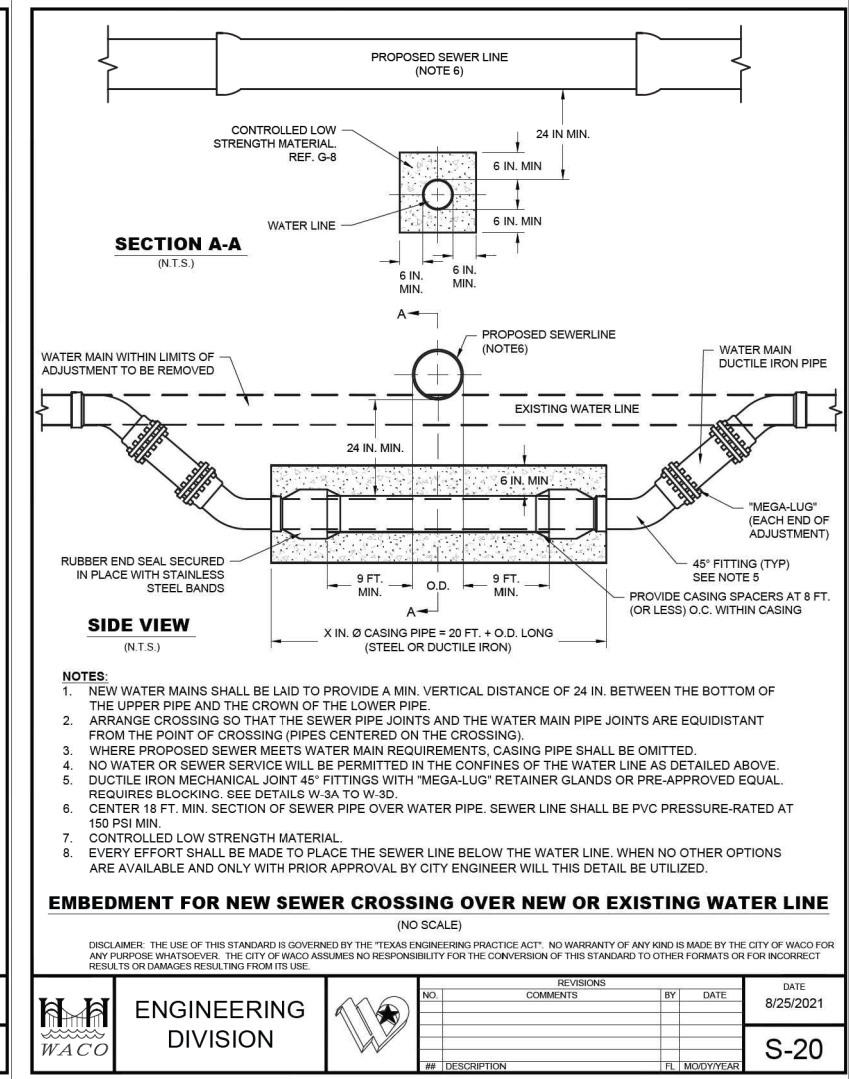
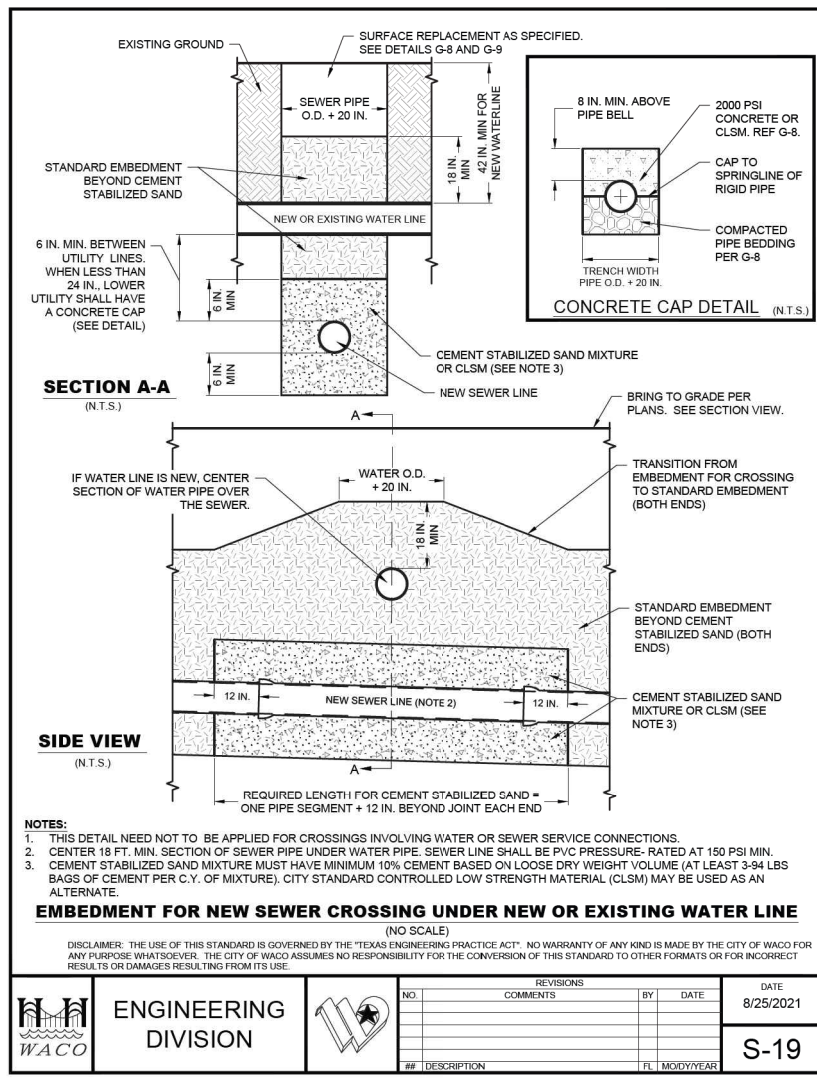
IH 35 FROM S LP 340 TO 12TH ST

WASTEWATER DETAILS SHEET 1

SHEET 1 OF 4

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	SEE TITLE SHEET	1161	
STATE	DIST.	COUNTY	
TEXAS	WACO	MCLENNAN	
CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35

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	COMMENTS		

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S-11

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 Firm Registration No. F-782

IH 35 FROM S LP 340 TO 12TH ST

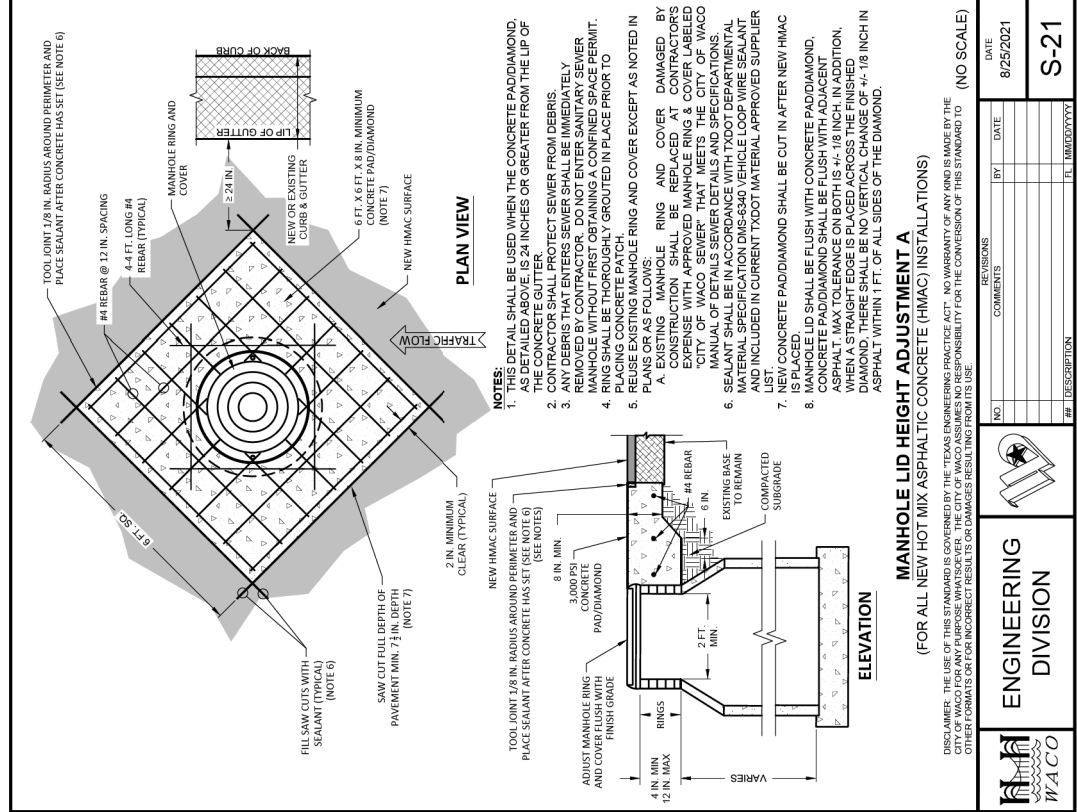
WASTEWATER DETAILS
SHEET 2

SHEET 2 OF 4

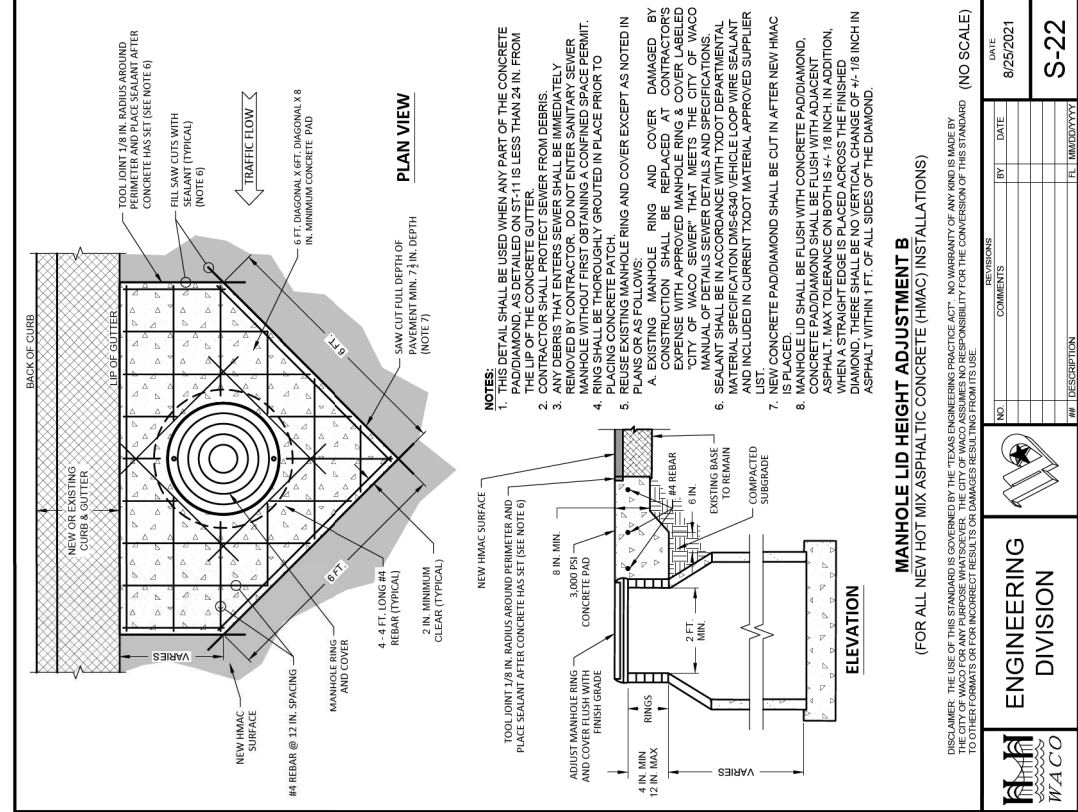
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
6	SEE TITLE SHEET	1162

STATE	DIST.	COUNTY
TEXAS	WACO	MCLENNAN

CONT.	SECT.	JOB	HIGHWAY NO.
0015	01	246, ETC	IH 35



		ENGINEERING DIVISION	
NO. _____ COMMENTS _____ BY _____ DATE _____		NO. _____ COMMENTS _____ BY _____ DATE _____	
# DESCRIPTION _____		# DESCRIPTION _____	
DATE 8/25/2021		DATE 8/25/2021	
S-21		S-21	



		ENGINEERING DIVISION	
NO. _____ COMMENTS _____ BY _____ DATE _____		NO. _____ COMMENTS _____ BY _____ DATE _____	
# DESCRIPTION _____		# DESCRIPTION _____	
DATE 8/25/2021		DATE 8/25/2021	
S-22		S-22	

MANHOLE CONFIGURATION

- ALL MANHOLES CONSTRUCTED IN AREAS SUBJECT TO TRAFFIC SHALL BE CONSTRUCTED IN A MANNER THAT THE SURFACE OF THE MANHOLE COVER SHALL BE WITHIN +/- 1/8 IN. OF THE ADJACENT SURFACE.
- MANHOLES CONSTRUCTED IN NON STREET AREAS SHALL BE CONFIGURED IN ONE OF THE FOLLOWING 3 WAYS:
 - THE LIDS FOR MANHOLES LOCATED BEHIND CURB SHALL BE CONSTRUCTED 2 IN. ABOVE ADJACENT GRADE AND RECEIVE A REINFORCED 5 FT. X 5 FT. X 8 IN. CONCRETE PAD.
 - MANHOLES CONSTRUCTED IN RURAL AREAS SHALL COMPLY WITH STANDARD DETAIL "MANHOLE IN UNDEVELOPED AREAS."
 - THE LIDS FOR MANHOLES IN AREAS SUBJECT TO FLOODING SHALL BE 24 IN. ABOVE THE 100 YEAR FLOOD ELEVATION. IN AREAS WHERE THIS IS NOT POSSIBLE, THE LID SHALL BE BOLTED DOWN, AND WATER TIGHT.
- COMPOSITE LIDS SHALL BE USED ON MANHOLES LOCATED ON SEWER INTERCEPTORS AND TRUNK LINES DIRECTLY TIED TO SEWER INTERCEPTORS.
- THE PROJECT DRAWINGS SHALL CLEARLY INDICATE THE CONFIGURATION OF EACH MANHOLE SHOWN.
- MANHOLES IN UNDEVELOPED AREAS WILL REQUIRE LOCATOR SIGNS ON INDICATOR POSTS, SEE STANDARD DETAIL G-12 AND G-13
- MANHOLES LOCATED WITHIN 100 YR FLOODPLAIN OR AREAS SUBJECT TO FLOODING SHALL REQUIRE A WATERTIGHT MANHOLE RING AND COVER.
- THE DESIGN ENGINEER SHALL VERIFY THE SPECIFIC CONDITIONS TO EACH MANHOLE SITE AND ENSURE THE APPROPRIATE CONFIGURATION IS SHOWN. ANY QUESTIONS SHALL BE SUBMITTED TO, AND DECIDED UPON, BY WACO CITY ENGINEER.

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# DESCRIPTION _____		# DESCRIPTION _____	
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MANHOLE IN UNDEVELOPED AREAS (NO SCALE)

OVERALL WIDTH 10 FT. X 10 FT. OR AS DETAILED IN CONSTRUCTION DRAWINGS

MANHOLE SIGN SUPPORT AND SIGN (REF. G-12 AND G-13)

4 - #4 x 3 FT PLACED ON DIAGONAL

#4 BARS @ 12 IN. OCEW WITH CORNER BARS; 3 IN. CLEAR FROM EDGE

SLOPE CONCRETE SLAB AWAY FROM MANHOLE 1.67% ALL SIDES (1 IN. PER 5 FT)

MANHOLE RING AND COVER AS SPECIFIED

USE WATER-TIGHT RING & COVER IN FLOODPLAIN AREAS AND WHERE DIRECTED BY THE ENGINEER

3/4" CHAMFER

1.67% SLOPE

6 IN. MIN.

2 IN.

FINISH GRADE/EXISTING SURFACE

6 IN. COMPACTED BACKFILL. (SEE NOTE 3)

MANHOLE SIGN SUPPORT (REF. G-12)

NOTES:

- THE CITY OF WACO REQUIRES MANHOLE SIGNS MOUNTED ON CONTRACTOR PROVIDED SIGN POSTS FOR UNDEVELOPED AREAS. THE CONTRACTOR WILL COORDINATE WITH WATER UTILITY SERVICES DEPARTMENT FOR SIGNS AND INSTALL THESE SIGNS. SEE STANDARD DETAILS G-12, G-13 AND G-16.
- CONCRETE SLAB SHALL BE 10 FT. X 10 FT. X 6 IN. DEPTH WITH #4 BARS @ 12 IN. OCEW WITH CORNER BARS AND 4 - #4 BARS BY 3 FT. PLACED ON DIAGONAL AROUND MANHOLE LID. SLOPE SLAB AWAY FROM MANHOLE AT 1.67% ALL SIDES.
- THE BACKFILL UNDER THE CONCRETE SLAB SHALL BE 6 IN. TYPE "A" MATERIAL PER STANDARD SPECIFICATIONS FOR CONSTRUCTION TO SECTION 4.2 EXCAVATION AND BACKFILL PART 2: PRODUCT A. MATERIALS 3. TRENCH BACKFILL A. TYPE "A" COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY (TEX-113-E). CONTRACTOR SHALL PROVIDE MANHOLE VENTING AT THE MAXIMUM SPACING OF 1,500 FEET IN UNDEVELOPED AREAS. SEE STANDARD DETAIL S-16

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DATE 8/25/2021		DATE 8/25/2021	
S-13		S-13	

SANITARY SEWER MANHOLE COVER AND FRAME (NO SCALE)

EJ 1232 WITH WACO LOGO INFORMATION OR APPROVED EQUAL

(4) - 2 IN. X 1 1/2 IN. X 38 IN. DIA B.C.

PICK BARS (2 TYP.)

1/2 IN. LETTERS (RECESSED FLUSH)

SPECIAL MACHINE OD & HEIGHT

COVER SECTION

COVER BACK

PICKBAR DETAIL

FRAME SECTION

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IH 35 FROM S LP 340 TO 12TH ST
WASTEWATER DETAILS SHEET 3
 SHEET 3 OF 4

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
6	SEE TITLE SHEET	1163
STATE	DIST.	COUNTY
TEXAS	WACO	MCLENNAN
CONT.	SECT.	JOB
0015	01	246, ETC
		HIGHWAY NO.
		IH 35

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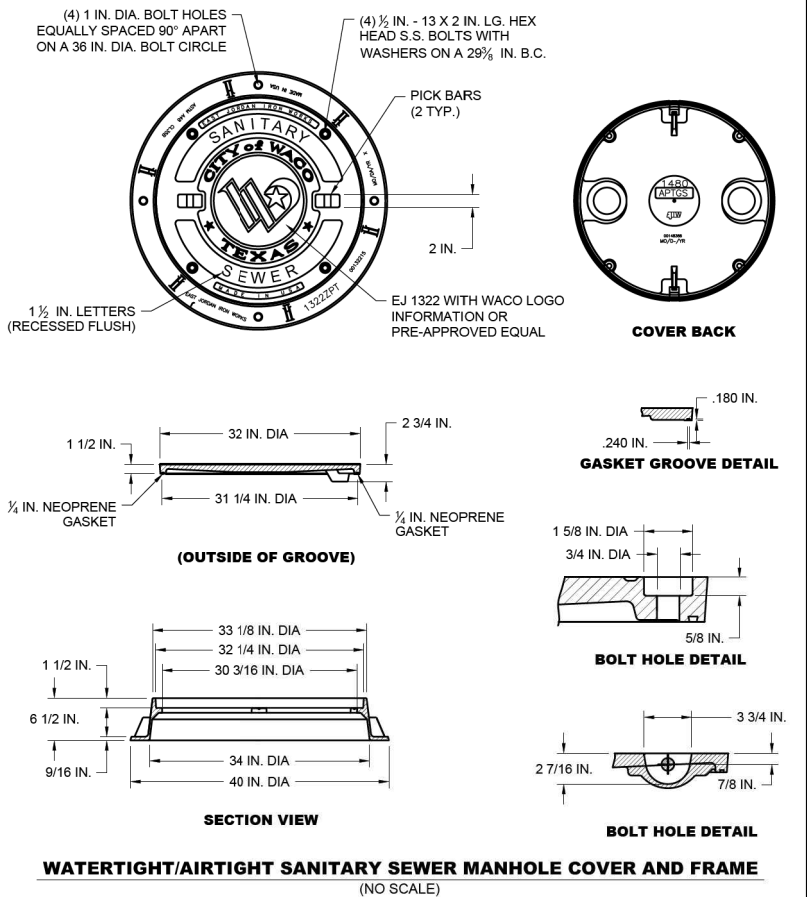
MANHOLE NOTES

- PIPES LAID THROUGH MANHOLES ARE TO BE CAREFULLY REMOVED TO ALLOW ACCESS TO SEWER MAIN AFTER INVERT IS CONCRETED.
- INVERT TO BE SHAPED AND FINISHED SMOOTH BY HAND FLOAT AND TROWEL.
- STANDARD 4 FT. DIAMETER MANHOLES TO BE CONSTRUCTED ON PIPE 10 IN. AND SMALLER IN DIAMETER AND LESS THAN 10 FT. DEEP.
- STANDARD 5 FT. DIAMETER MANHOLES TO BE CONSTRUCTED ON PIPE 12 TO 15 IN. DIAMETER AND LESS THAN 20 FT. DEEP. EXCEPT FOR THE CONE, MANHOLE RISER DIAMETER REDUCTIONS ARE NOT PERMITTED.
- STANDARD 6 FT. DIAMETER MANHOLES TO BE CONSTRUCTED ON PIPE GREATER THAN 15 IN. IN DIAMETER. EXCEPT FOR THE CONE, MANHOLE RISER DIAMETER REDUCTIONS ARE NOT PERMITTED.
- A MAXIMUM OF 2 IN. OF MORTAR MAY BE USED TO BRING RING AND COVER TO GRADE.
- IN STREET SECTION ONLY, GRADE RINGS AND GROUT MAY BE APPLIED TO A MANHOLE CONE TO ALLOW FOR FUTURE ADJUSTMENT. TOTAL DEPTH OF GRADE RING AND GROUT SHALL BE BETWEEN 4 IN. MINIMUM AND 12 IN. MAXIMUM. GRADE RINGS AND COVER SHALL BE SECURED IN A SET BED OF GROUT.
- MANHOLE COVERS SHALL HAVE THE WORDS "SANITARY SEWER", "CITY OF WACO", AND THE "FLYING W" LOGO RAISED ON THE OUTWARD FACE.
- STANDARD DETAIL S-13 SHALL BE USED WHERE MANHOLES ARE INSTALLED IN UNDEVELOPED AREAS, SUCH AS FIELDS.
- PRECAST CONCRETE MANHOLES, WITH APPROVED COATING, ARE PERMITTED. THE MANHOLES SHALL CONFORM TO CITY OF WACO MANHOLE DETAILS AND TO ASTM C-478. CONTRACTOR SHALL SUBMIT DESIGN INFORMATION ON PRECAST MANHOLES STAMPED BY A PROFESSIONAL ENGINEER FOR CITY ENGINEER'S APPROVAL. IF PRECAST MANHOLES ARE USED, THEY SHALL BE PLACED ON A BEDDING OF 6 IN. MINIMUM OF 3/4 IN. WASHED ROCK SEE NOTE 17.
- MEASUREMENT DEPTH FOR PAYMENT OF MANHOLES SHALL BE FROM THE FLOWLINE TO THE TOP SURFACE OF THE MANHOLE COVER.
- VACUUM AIR TEST MANHOLES AFTER GRADE RINGS AND COVER RINGS ARE IN PLACE IN ACCORDANCE TO TESTING PROCEDURES IN ASTM #C1244. (COVER OMITTED FOR TESTING).
- SURFACE REPLACEMENT SHALL BE INCLUDED IN THE PRICE FOR THE MANHOLE.
- MANHOLE GRADE RINGS AND THE INTERIOR AND EXTERIOR SURFACES OF THE MANHOLE SHALL BE PRIMED WITH TNEPEC SERIES 218 FOLLOWED BY A COAT OF TNEPEC SERIES 436 AT 60.0 DRY MILS.
- CAST IN PLACE MANHOLE WILL REQUIRE A SEALED DESIGN SUBMITTED BY A LICENSED PROFESSIONAL ENGINEER, AND APPROVED BY CITY ENGINEER. CAST IN PLACE BASE MUST BE MINIMUM 8 IN. THICK WITH #5 BARS @ 12 IN. OCEW AND SHALL EXTEND 1 FT. BEYOND MANHOLE.
- MAXIMUM MANHOLE SPACING IS 450 LF.
- 3/4 IN. WASHED ROCK SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR CONSTRUCTION ITEM A.2.a, CRUSHED STONE EMBEDMENT, OF SECTION 4.2 PART 2, EXCEPT THE GRADATION SHALL BE:

3/4 IN. WASHED ROCK	
SIEVE	PERCENTAGE RETAINED
1 1/2 IN.	0%
3/4 IN.	100%

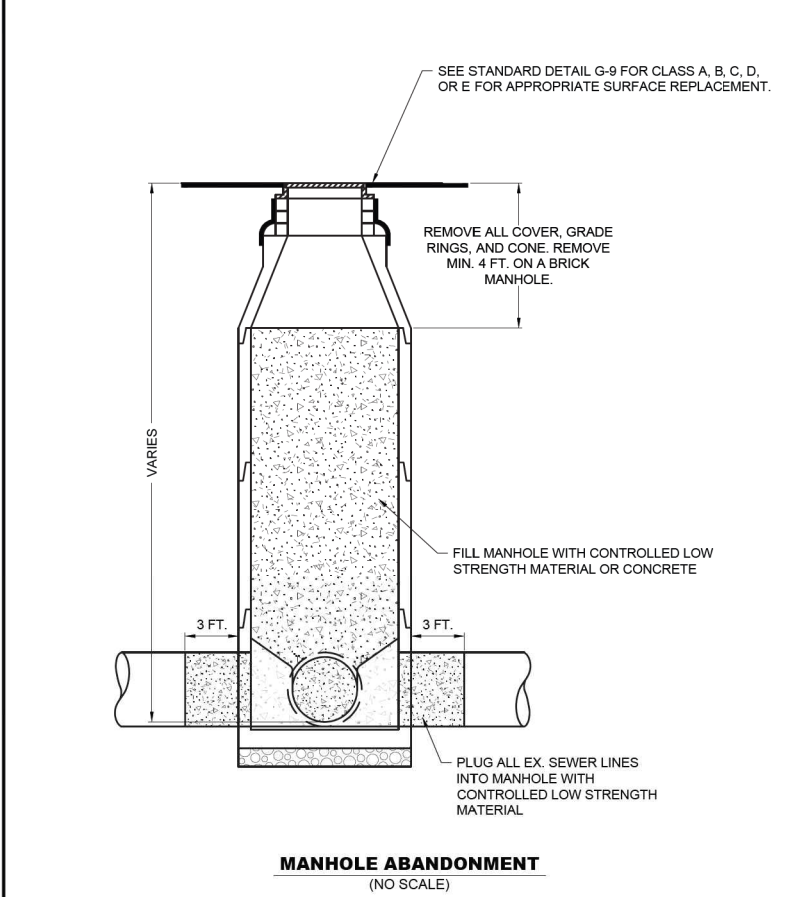
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	ENGINEERING DIVISION	<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> <th>DATE</th> </tr> <tr> <th>NO.</th> <th>COMMENTS</th> <th>BY DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>REVISE NOTE 10, ADD CHART BELOW NOTE 17</td> <td>MZ 02/25/2022</td> </tr> <tr> <td>#</td> <td>DESCRIPTION</td> <td>FL MDDY/YEAR</td> </tr> </tbody> </table>	REVISIONS		DATE	NO.	COMMENTS	BY DATE	1	REVISE NOTE 10, ADD CHART BELOW NOTE 17	MZ 02/25/2022	#	DESCRIPTION	FL MDDY/YEAR	<table border="1"> <tr> <td>DATE</td> <td>8/25/2021</td> </tr> <tr> <td>SHEET NO.</td> <td>S-5</td> </tr> </table>	DATE	8/25/2021	SHEET NO.	S-5
	REVISIONS		DATE																
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WASTEWATER DETAILS
SHEET 4

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
6	SEE TITLE SHEET	1163A
STATE	DIST.	COUNTY
TEXAS	WACO	MCLENNAN
CONT.	SECT.	JOB HIGHWAY NO.
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