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Midland County Sheriff Office Utilities

July 2024

Parkhill

1700 West Wall St.
Suite 100
Midland, TX 79701
432.697.1447

Terry Johnson - County Judge

Scott Ramsey - Precinct 1

Jeff Somers - Precinct 2

Luis Sanchez - Precinct 3

Dianne Anderson - Precinct 4

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G-003	General Notes, Legend, and Contact List

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C-102	Sewer Line A Plan and Profile Sta 6+00 to Sta 12+00
C-103	Sewer Line A Plan and Profile Sta 12+00 to Sta 18+00
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**Midland County
Sheriff Office Utilities**



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Midland County
5000 N Loraine St
Midland, Texas
79701-4725
(432) 742-7777

PROJECT NO.

41563.23

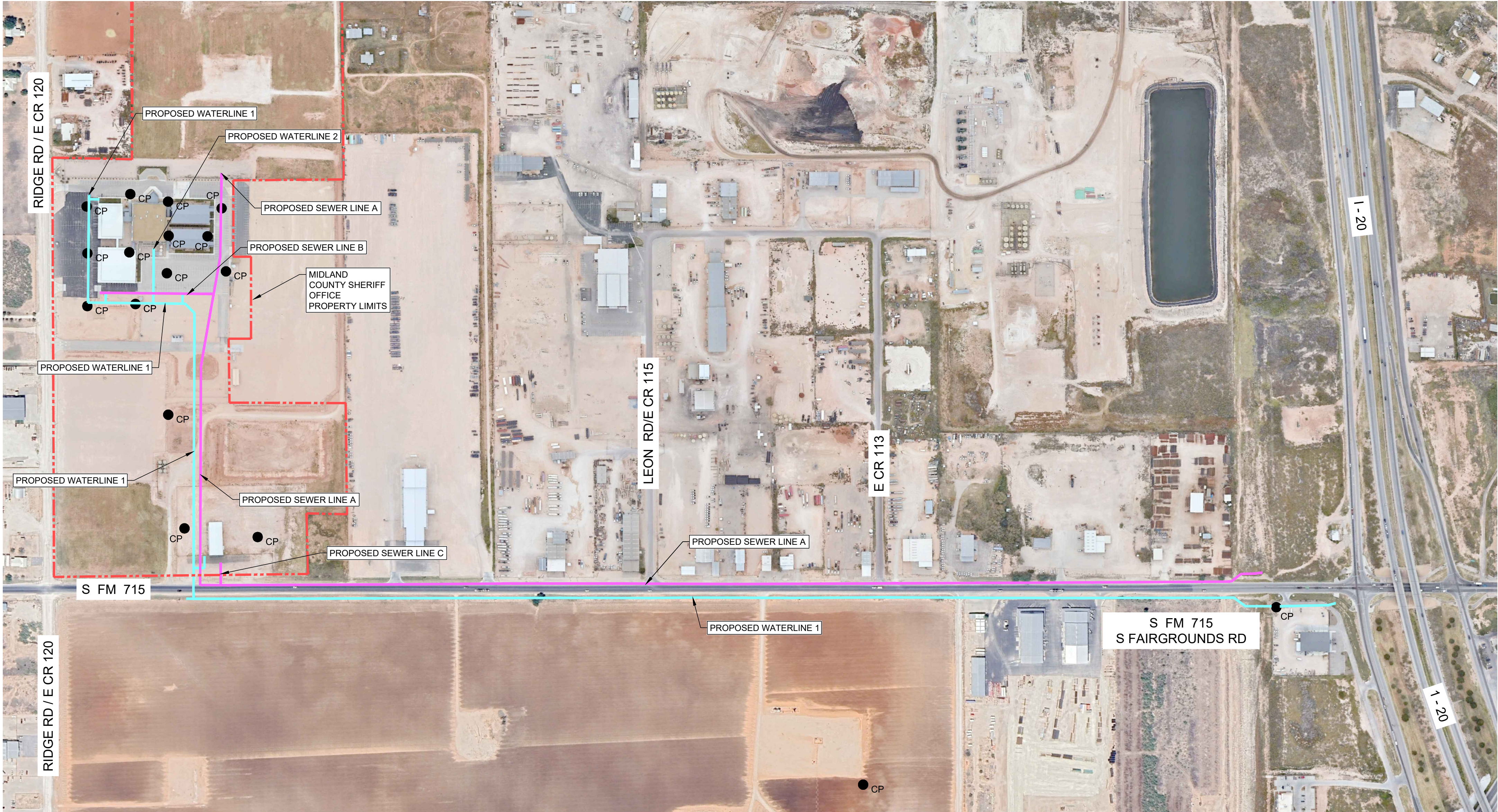
4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

#	DATE	DESCRIPTION
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**Cover Sheet
And Index**

G-001

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SURVEY CONTROL

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	10682777.10	1767516.20	2758.19	SET #4 BAR W/ PSC CONTROL CAP
2	10686188.48	1768379.78	2743.98	SET #4 BAR W/ PSC CONTROL CAP
3	10687792.64	1767168.45	2745.95	SET #4 BAR W/ PSC CONTROL CAP
4	10682200.55	1766699.78	2762.68	SET MAG NAIL W/ WASHER PARKHILL CONTROL
5	10682376.86	1766599.21	2761.70	SET MAG NAIL W/ WASHER PARKHILL CONTROL
6	10682548.86	1766591.44	2762.17	SET MAG NAIL W/ WASHER PARKHILL CONTROL
7	10682788.41	1766563.27	2759.65	SET MAG NAIL W/ WASHER PARKHILL CONTROL
8	10682874.62	1766832.43	2758.00	SET MAG NAIL W/ WASHER PARKHILL CONTROL
9	10682620.01	1766903.60	2762.39	SET MAG NAIL W/ WASHER PARKHILL CONTROL
10	10682516.55	1767070.87	2760.19	SET MAG NAIL W/ WASHER PARKHILL CONTROL
11	10682309.81	1767131.16	2761.13	SET MAG NAIL W/ WASHER PARKHILL CONTROL
12	10682253.93	1766901.90	2761.98	SET MAG NAIL W/ WASHER PARKHILL CONTROL
13	10682434.61	1766852.87	2762.18	SET #4 BAR W/ PSC CONTROL CAP
14	10682587.70	1766739.05	2763.64	SET #4 BAR W/ PSC CONTROL CAP
15	10682757.05	1766699.78	2762.79	SET #4 BAR W/ PSC CONTROL CAP
16	10682968.86	1767992.23	2754.85	SET #4 BAR W/ PSC CONTROL CAP
17	10683295.83	1767951.65	2754.64	SET #4 BAR W/ PSC CONTROL CAP
HORIZONTAL DATUM IS NAD83 TEXAS STATE PLANE COORDINATES CENTRAL ZONE 4203				
VERTICAL DATUM IS NAVD88				

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5000 N Loraine St
Midland, Texas
79701-4725
(432) 742-7777

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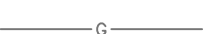
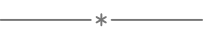
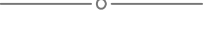
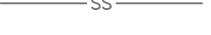
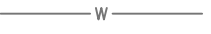
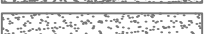
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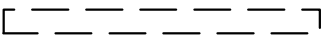
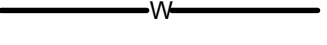
G-002

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TOPOGRAPHIC LEGEND

SCALE: 1" = 40'		
	Electric Air Conditioner Unit	 Fiber Optic Underground
	Electric Box	 Fuel Pipeline Underground
	Electric Guy Down	 Gas Line Underground
	Electric Light Ground	 Power Overhead
	Electric Light Pole	 Power Underground
	Electric Meter	 Edge Of Asphalt
	Electric Outlet	 Curb And Gutter
	Electric Power Pole	 Surface Drainage Flowline
	Electric Riser	 Fence Guard Rail
	Electric Transformer Ground	 Fence Security
	Electric Transformer Pole	 Fence Chainlink
	Control Point	 Sanitary Sewer Gravity Line
	Accessible Parking Marker	 Storm Drain Pipe/wall
	Gas Meter	 Water Underground
	Gas Riser	 Topographic Contour Major
	Communications Manhole	 Topographic Contour Minor
	Communications Pedestal	 Building
	Communications Riser	 Building Overhang
	Water Fire Department Connection	 Concrete
	Water Hose Bib	 Rip Rap
	Water Irrigation Control Valve	 Asphalt
	Water Irrigation Sprinkler Head	 Gravel
	Water Meter	
	Water Valve	
	Sanitary Sewer Manhole	
	Sanitary Sewer Cleanout	
	Roof Drain	
	Storm Drain Manhole	
	Traffic Arrow	
	Ballard/guard Post	
	Sign	
	Keypad	
	Mailbox	
	Flag Pole	
	Electric Pull Box	

LEGEND - PROPOSED CONSTRUCTION

	WASTEWATER MANHOLE
	CAP/PLUG
	CASING
	WATER MAIN
	WASTEWATER MAIN

GENERAL NOTES

1. ALL EXISTING UTILITIES CURRENTLY IN SERVICE MUST REMAIN IN SERVICE THROUGHOUT CONSTRUCTION OF THE NEW MAIN EXCEPT AS NOTED IN THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES (INCLUDING SERVICE CONNECTIONS) FROM DAMAGE AS A RESULT OF CONSTRUCTION.
2. ALTHOUGH ALL EFFORTS HAVE BEEN MADE TO INDICATE ALL MAJOR EXISTING UTILITIES ON PLANS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL SAID UTILITIES AS WELL AS SERVICE CONNECTIONS (WHETHER OR NOT INDICATED ON PLANS) PRIOR TO AND DURING CONSTRUCTION.
3. ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO BE SHOWN ON RECORD DRAWINGS. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR IS TO COORDINATE WITH UTILITY COMPANIES & LAND OWNERS TO VERIFY LOCATION OF EXISTING UTILITIES & CONTRACTOR MUST CALL THE RESPECTIVE "1-CALL" NUMBER FOR SUCH UTILITIES.
4. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH GAS, OIL, ELECTRIC, TELEPHONE, FIBER OPTIC, CABLE TV, SEWER, TXDOT, WATER UTILITIES OWNERS AND LAND OWNERS ETC. FOR ANY RELOCATION AND/OR PROTECTION OF EXISTING LINES, CABLES, APPURTENANCES, ETC. AS REQUIRED, DUE TO CONSTRUCTION ACTIVITIES.
5. CONTRACTOR IS TO PROVIDE LEVEL 'A' SUBSURFACE UTILITY INVESTIGATION OF EXISTING UTILITIES BY POTHOLING AND/OR OTHER APPROVED METHODS PRIOR TO ORDERING MATERIALS OR MOBILIZING TO SITE TO ALLOW ENGINEER SUFFICIENT TIME TO INITIATE ANY NECESSARY CHANGES IN ALIGNMENT AND/OR GRADE OF PIPELINE.
6. UNLESS OTHERWISE INDICATED, ALL EXISTING ROADWAYS, SIDEWALKS, & SURFACE GRADING AFFECTED BY CONSTRUCTION ACTIVITIES ARE TO BE RESTORED TO ORIGINAL CONDITION AND ELEVATION BY CONTRACTOR.
7. THE CITY OF MIDLAND UTILITY DEPARTMENT IS TO BE NOTIFIED 72 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES.
8. CONTRACTOR IS REQUIRED TO IMPLEMENT AN APPROVED STORM WATER POLLUTION PREVENTION (SWPPP) PLAN. CONTRACTOR MUST KEEP ALL DEBRIS & SPOIL OUT OF DRAINS, CULVERTS AND DROP INLETS AND ENSURE THAT THEY DO NOT BECOME CLOGGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
9. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO ORIGINAL OR BETTER CONDITION. VEGETATIVE AREAS SHALL BE RESEEDDED PER SPECIFICATIONS. ROCKS LARGER THAN 2" SHALL BE REMOVED FROM SURFACE..
10. UNLESS INDICATED OTHERWISE ON THE DRAWINGS, CONTRACTOR SHALL PROVIDE A MINIMUM COVER FROM TOP OF PIPE TO FINISH GRADE FOR ALL NEW PIPES AS FOLLOWS:
WATER MAIN = 4.5' IN TXDOT ROW, 3.5' OTHERWISE
WASTEWATER MAIN = 6.5'
TXDOT BORE = 8'
ALL NEW UTILITY CROSSINGS SHALL FOLLOW APPLICABLE CITY OF MIDLAND DETAILS AND TXDOT REQUIREMENTS, WHICHEVER OF THE TWO IS MORE STRINGENT..
11. FIELD VERIFY ALL WATER AND WASTEWATER MATERIAL, SIZE, AND ELEVATION PRIOR TO ORDERING AND INSTALLING FITTINGS AND MANHOLES.
12. CONTRACTOR IS TO TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING FACILITIES THAT ARE ENCOUNTERED REGARDLESS OF WHETHER OR NOT THEY APPEAR IN CONSTRUCTION DRAWINGS.
13. PLUGS/CAPS FOR WASTEWATER AND WATER MAINS ARE SHOWN AS AN APPROXIMATE LOCATION. PLUGS NEAR PROPOSED MANHOLES SHALL BE INSTALLED FLUSH WITH THE INSIDE OF SUCH MANHOLE. CAPS NEAR PROPOSED WATER CONNECTIONS SHALL BE INSTALLED IMMEDIATELY AFTER CONNECTION.
14. CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE STANDARDS AND REGULATIONS FOR WORK IN TXDOT RIGHT-OF-WAY.
15. ALL CONSTRUCTION IS TO COMPLY WITH CITY OF MIDLAND STANDARDS AND SPECIFICATIONS WHEREVER APPLICABLE. ALL OTHER STANDARDS AND REQUIREMENTS ARE TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS, REQUIREMENTS, AND STANDARDS. WHENEVER CITY OF MIDLAND STANDARDS AND FEDERAL OR STATE REQUIREMENTS DIFFER THE MORE RESTRICTIVE STANDARD, REQUIREMENTS, OR REGULATION WILL GOVERN.
16. PRIOR TO BEGINING WORK ADJACENT TO AND/OR WITHIN TXDOT RIGHT-OF-WAY CONTRACTOR MUST PREPARE A TRAFFIC CONTROL PLAN & SUBMIT TO TXDOT FOR APPROVAL. CONTRACTOR IS TO NOT BEGIN WORK UNTIL THE TRAFFIC CONTROL PLAN HAS BEEN APPROVED, A COPY OF WHICH IS TO BE PROVIDED TO THE ENGINEER. TRAFFIC CONTROL PLAN MUST BE PREPARED IN CONFORMANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS & HIGHWAYS.
17. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ADJACENT PROPERTY OWNER TO PROVIDE UNINTERRUPTED PROPERTY ACCESS DURING ALL PHASES OF CONSTRUCTION.
18. CONTRACTOR SHALL COORDINATE WITH USPS AND PROPERTY OWNER TO ENSURE CONTINUED MAIL DELIVERY DURING PROJECT AND IF MAIL BOXES ARE TEMPORARILY REMOVED OR RELOCATED.
19. CONTRACTOR IS TO WORK CONTINUOUSLY TO RESTORE ROADWAYS TO PLACE THEM BACK IN SERVICE. IF IN THE OPINION OF THE ENGINEER THE CONTRACTOR IS NOT WORKING DILIGENTLY, TO REPLACE THE PAVEMENT, THIS MAY BE CAUSE FOR THE CONTRACTOR TO CEASE WORK ON OTHER AREAS UNTIL THE ROADWAYS ARE RESTORED AND PAVEMENT REPLACED TO RESTORE TO THE ORIGINAL CONDITION.
20. CONTRACTOR IS TO USE A NIGHT PLUG AND SEAL THE OPENINGS OF THE PIPE DURING NON-WORKING HOURS.
21. CONTRACTOR IS TO COMPILE A RECORD OF ALL FOUND UNDERGROUND UTILITIES. THIS INFORMATION IS TO BE TRANSFERRED TO FINAL RECORD DRAWINGS.
22. ALL EXISTING IRRIGATION MUST BE REPAIRED TO EXISTING CONDITIONS AT CONTRACTORS COST.
23. CONTRACTOR MUST EXHIBIT CAUTION DURING CONSTRUCTION ACTIVITIES AS VARIOUS BURIED AND OVERHEAD UTILITIES EXIST IN THE PROJECT AREA.
24. CONTRACTOR IS REQUIRED TO GIVE ENGINEER 72-HOURS NOTICE FOR INSPECTION/TESTING OF ALL CRITICAL ASPECTS OF THE PROJECT. THESE INCLUDE, BUT ARE NOT LIMITED TO, INSPECTION/TESTING OF: PIPE EMBEDMENT, FITTING RESTRAINT, PIPE BACKFILL, WARNING TAPE, SUBGRADE, REINFORCEMENT, BASE PRIME COAT, CONCRETE & HMAC OPERATIONS, MANDREL TESTING, PRESSURE TESTING, DISINFECTION TESTING, ETC.
25. ALL BACKFILL UNLESS OTHERWISE SPECIFIED MUST BE DONE IN 6" LIFTS, COMPACTED TO 95% OF ASTM D1557, +/- 2% OPTIMAL MOISTURE CONTENT.
26. FOR ALL REMOVED ITEMS SEPTIC TANKS, APPURTENANCES, ETC BACKFILL AND REPLACE SURFACE TO MATCH ADJACENT SURFACING. INCLUDE IN APPLICABLE BID COST FOR APPURTENANCE REMOVAL.
27. RECONNECT ALL EXISTING WATER AND SEWER SERVICES WHETHER SHOWN ON PLANS OR NOT. VERIFY ALL EXISTING SERVICES ARE RECONNECTED.
28. ELEVATION AND DIMENSIONS SHOWN ARE APPROXIMATE AND BASED ON FIELD SURVEY DATA. THROUGHOUT CONSTRUCTION COORDINATE WITH ENGINEER TO ENSURE ALL REQUIREMENTS, REGULATIONS, AND DESIGN INTENT ARE MET. CONTRACTOR IS SOLELY RESPONSIBLE IN MEETING THE DESIGN INTENT.
29. CONCRETE COLLARS, VALVE BOXES, AND MANHOLE RING AND COVERS MUST BE FLUSH WITH ADJACENT SURFACING. CONTRACTOR MUST ADJUST AS NECESSARY BASED ON FIELD CONDITIONS.
30. AS NECESSARY, COORDINATE RELOCATION OF LANDOWNER EQUIPMENT WITH ENGINEER.
31. CONTRACTOR IS TO PERFORM THE WORK AS SHOWN HEREIN AND IN THE SPECIFICATIONS IN SUCH A MANNER TO PROVIDE UNINTERRUPTED WATER AND WASTEWATER SERVICE DURING ALL CONSTRUCTION ACTIVITIES.
32. FIELD VERIFY ALL WATER AND WASTEWATER MATERIAL, SIZE, AND ELEVATION PRIOR TO ORDERING AND INSTALLING.
33. ROCK MAY BE PRESENT IN THE ALIGNMENTS. NO EXTRA COMPENSATION WILL BE MADE FOR SOLID ROCK EXCAVATION. THE CONTRACTOR IS EXPECTED TO MAKE BORING OF HIS OWN AND SATISFY HIMSELF OF THE CHARACTER OF MATERIAL WHICH WILL BE ENCOUNTERED.
34. CONTRACTOR IS TO COORDINATE WITH APPLICABLE UTILITY OWNERS, OBTAIN ALL REQUIRED PERMITS, AND ADHERE TO ALL REQUIREMENTS BY SUCH UTILITY OWNERS FOR CROSSING OF THEIR UTILITIES.
35. CONTRACTOR IS TO NOTIFY ALL AFFECTED PROPERTIES AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY KNOWN OR PLANNED INTERRUPTION OF SERVICE OR ACCESS DUE TO ANY CONSTRUCTION ACTIVITY PERFORMED BY CONTRACTOR.
36. THERE IS TO BE NO MATERIAL STORAGE WITHIN TXDOT RIGHT-OF-WAY. MATERIAL STORAGE TO BE AS APPROVED BY ENGINEER.
37. OSHA REQUIREMENTS AND ALL OTHER APPLICABLE LOCAL, STATE, OR FEDERAL SAFETY REQUIREMENTS ARE TO BE FOLLOWED AND COMPLIED WITH AT ALL TIMES.
38. CONTRACTOR HAS SOLE RESPONSIBILITY FOR ALL CONSTRUCTION STAKING.
39. ALL UTILITY COVERS MUST BE ADJUSTED TO FINISHED GRADE AND BE SET FLUSH WITH ADJACENT FINISHED SURFACE WHETHER FINISHED SURFACE IS PAVED OR UNPAVED.
40. CONCRETE RINGS ARE TO BE PLACED AROUND ALL PUBLIC INFRASTRUCTURE COVERS EXCEPT METER COVERS EVEN WHEN SUCH COVERS ARE LOCATED IN UNPAVED OR CONCRETE PAVED AREAS.
41. ALL ASPHALT OR CONCRETE PAVED UTILITY TRENCH REPAIRS ARE TO INCLUDE 1.0' T-TOPPING ON BOTH SIDES OF UTILITY TRENCH EXCAVATION.
42. ALL SAW-CUTTING IS TO HAVE CLEAN, STRAIGHT EDGES AND IS CONSIDERED INCIDENTAL TO ALL PAVEMENT REMOVAL.
43. ALL CONCRETE FIBER REINFORCEMENT IS TO BE INSTALLED AT A RATE OF 3-POUNDS OF FIBER REINFORCEMENT PER EACH 1.0-CUBIC YARD OF CONCRETE PLACED (3-LBS / 1.0-CY) UNLESS OTHERWISE STATED IN CONSTRUCTION DRAWINGS.
44. ALL CONCRETE PAVEMENT, FILLET, AND COLLAR JOINTS ARE TO BE SEALED.
45. EXISTING INFRASTRUCTURE IDENTIFIED FOR REMOVAL IS TO BE REMOVED IN ITS ENTIRETY, INCLUDING ANY VALVES, FITTINGS, STRUCTURE, AND APPURTENANCES.
46. ALL ITEMS TO BE REMOVED OR DEMOLISHED BECOME THE OWNERSHIP OF THE CONTRACTOR. CONTRACTOR SHALL LEGALLY DISPOSE OF ALL ITEMS IN AN EPA-APPROVED LANDFILL.
47. WATER MAIN DEFLECTIONS WHERE SPECIFIED OR REQUIRED ARE TO MEET PIPE MANUFACTURER SPECIFICATIONS FOR INSTALLATION. AS NECESSARY, FURNISH AND INSTALL APPLICABLE FITTING(S) TO ENSURE DEFLECTION REQUIREMENTS ARE MET.
48. CONTRACTOR MUST HOLD PRIOR TO BIDDING (EITHER ON PAYROLL OR THROUGH CONTRACT) TCEQ WATER AND TCEQ WASTEWATER CLASS D LICENSES. TCEQ CLASS 1 WASTEWATER COLLECTORS LICENSE MY BE HELD IN LIEU OF THE CLASS D WASTEWATER LICENSE. BIDDERS MUST SUBMIT PROOF OF BOTH TCEQ WATER AND WASTEWATER LICENSES WITH THE BID SUBMITTAL OR IT WILL BE CONSIDERED NON-RESPONSIVE AND REJECTED. BOTH LICENSES MUST BE MAINTAINED FOR THE ENTIRETY OF PROJECT.
49. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR MUST FAMILIARIZE HIMSELF WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS, THE PLANS INCLUDING ALL NOTES, AND ANY OTHER APPLICABLE STANDARDS AND SPECIFICATIONS RELEVANT TO THE PROPER COMPLETION OF THE WORK SPECIFIED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PERFORMING THE WORK IN ACCORDANCE WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, AND SEQUENCES AND PROCEDURES OF CONSTRUCTION AND ANY SAFETY PRECAUTION PROGRAMS RELATING IN ANY WAY TO THE CONDITIONS OF THE PREMISES.
50. CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES AND TRAFFIC TO EASEMENT, RIGHT OF WAY OR DESIGNATED WORK AREA AS SHOWN ON DRAWINGS. NO WORK OR ACCESS IS GRANTED TO AREAS OUTSIDE OF THE AREA DESIGNATED.
51. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION SURVEYING AND STAKING, TRAFFIC CONTROL AND TESTING AS REQUIRED BY CONTRACT DOCUMENTS.
52. CONTRACTOR SHALL COORDINATE WITH COUNTY FOR FIELD STORAGE OF EQUIPMENT, MATERIALS, ETC ON COUNTY PROPERTY. ANY OTHER STORAGE SITES WILL BE THE RESPONSIBILITY OF CONTRACTOR TO COORDINATE WITH THE ENTITY OF PROPERTY OWNERSHIP.
53. CONTRACTOR SHALL ENSURE ALL UTILITY INSTALLATION APPLICABLE TO DETAILS 306,307,308 AND 309 ON SHEETS C-501 ARE FOLLOWED.

CONTRACTOR SHALL COORDINATE WITH TXDOT IN THE REMOVAL, RELOCATION, REPLACEMENT AND/OR TEMPORARY INSTALLATION OF SIGNAGE AND SIGNALS SUCH THAT SUCH ACTIVIES ARE IN COMPLIANCE WITH TXDOT REQUIREMENTS.

UTILITIES AND AGENCIES CONTACT LIST

MIDLAND COUNTY	CITY OF MIDLAND	PARKHILL	"1" CALL UTILITY LOCATION COMPANIES	TEXAS 811	FIBERLIGHT OF TEXAS	ASTOUND (GRANDE)
500 N. LORAINЕ ST., SUITE 1100 MIDLAND, TEXAS 79701 OFFICE: (432) 742-7370 MR. ANDREW AVIS, DIRECTOR OF PUBLIC WORKS	300 N. LORAINЕ ST. MIDLAND, TEXAS 79701 OFFICE: (432) 685-7320 MR. CARL CRAIGO, P.E., DIRECTOR OF UTILITIES	1700 WEST WALL STREET MIDLAND, TEXAS 79701 (432) 697-1447 MR. THOMAS G. KERR, P.E.	800-DIG-TESS (344-8377) TX 1 CALL 800-245-4545 LONE STAR 800-669-8344; 806-376-8600	11880 GREENVILLE, SUITE 120 DALLAS, TEXAS 75243 (800) 344-8377	3000 SUMMIT PLACE, STE 200 ALPHARETTA, GA 30009 (800) 672-0181	800-427-8686
HF SINCLAIR MIDSTREAM - HOLLY ENERGY PARTNERS	SUNOCO PIPELINE - ENERGY TRANSFER COMPANY - CENTURION PIPELINE	COLLEGIATE MIDSTREAM	Exxon Mobil - PIONEER NATURAL RESOURCES - PARKER/PARSLEY	TARGA	AT&T	ONCOR
MORGAN WAGNER Charles.Wagner@HFSinclair.com M (469) 416-0769 BO GARVIN Kennith.garvin@HFSinclair.com	CHRIS BURNS Christopher.burns@EnergyTransfer.com (432) 305-7976 EMERGENCY NUMBER: (800)753-5531	ERNEST ANSELM ernestanselmi@aol.com (405) 630-9053	(800) 537-5200	EMERGENCY: (800) 722-7098	P.O. BOX 60630 MIDLAND, TEXAS 79711 800-288-2080	TRAMPAS RAILY 777 MAIN ST. SUITE 1033-18 FT. WORTH, TX 76102 CELL: (214) 433-4134 Trampas.Railey@oncor.com

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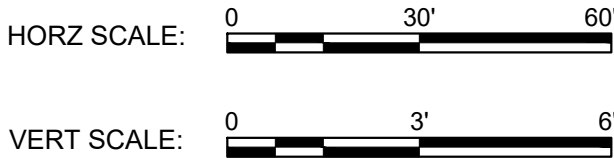
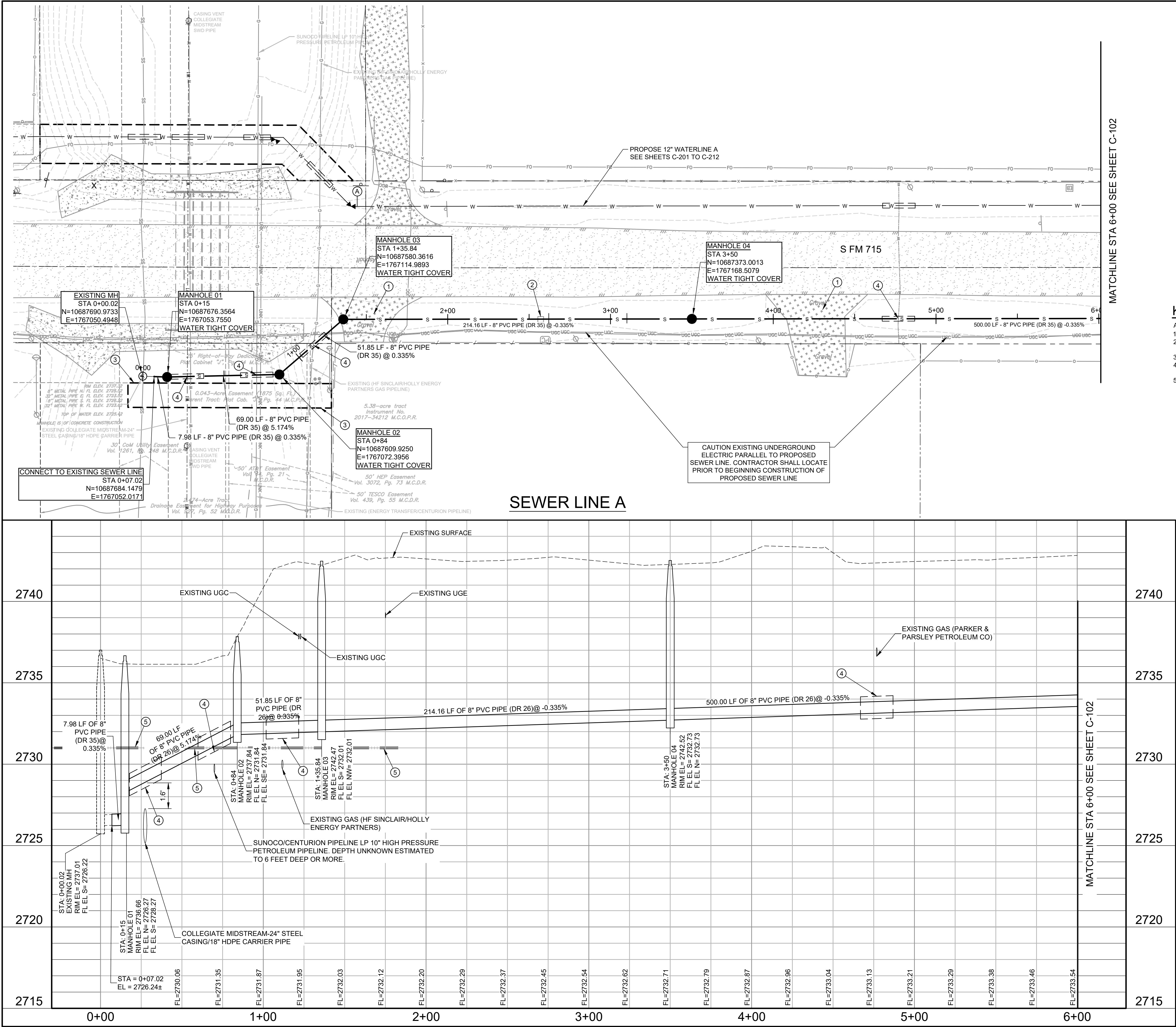
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General Notes,
Legend, Contact
List

G-003

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KEY NOTES

- AS INDICATED BY: (C)
1. REMOVE AND REPLACE GRAVEL PAVEMENT.
 2. REMOVE MAIL BOX AND REINSTALL AS NEEDED FOR CONSTRUCTION.
 3. PROPOSED UTILITY EASEMENT.
 4. WASTEWATER MAIN CROSSING PETROLEUM LINE SEE DETAIL 308 SHEET C-501.
 5. GROUNDWATER MEASURED AT APPROXIMATE 2731 ELEVATION.

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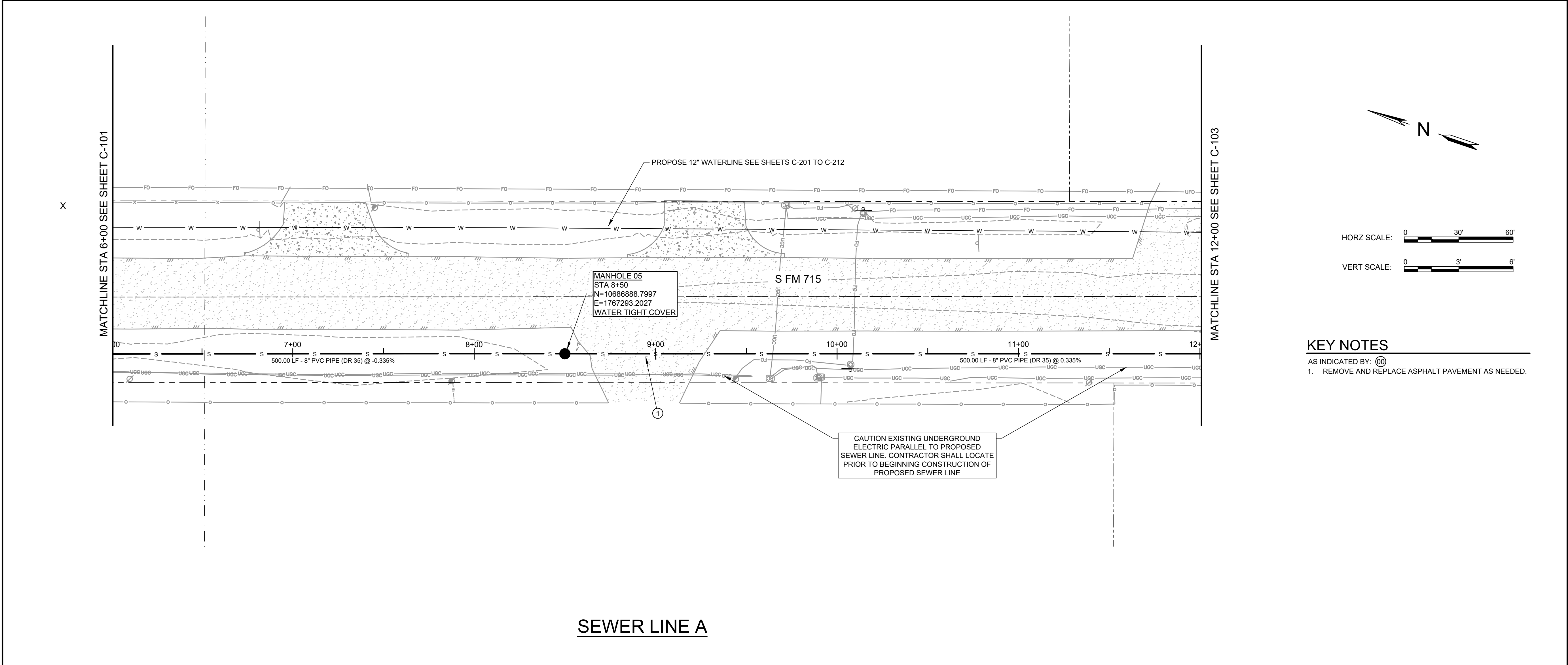
4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

DATE DESCRIPTION

Sewer Line A
Plan and Profile
Sta 0+00 To
Sta 6+00

C-101

A:\2023\41563.23\03_DSGN\01_DWG\050_CIVIL\02-41563.DWG, 6/19/2024 10:24:38 AM, jvasquez

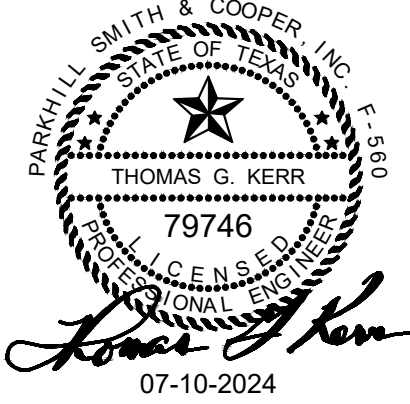


KEY NOTES

AS INDICATED BY: (C)

1. REMOVE AND REPLACE ASPHALT PAVEMENT AS NEEDED.

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PROJECT NO.
41563.23

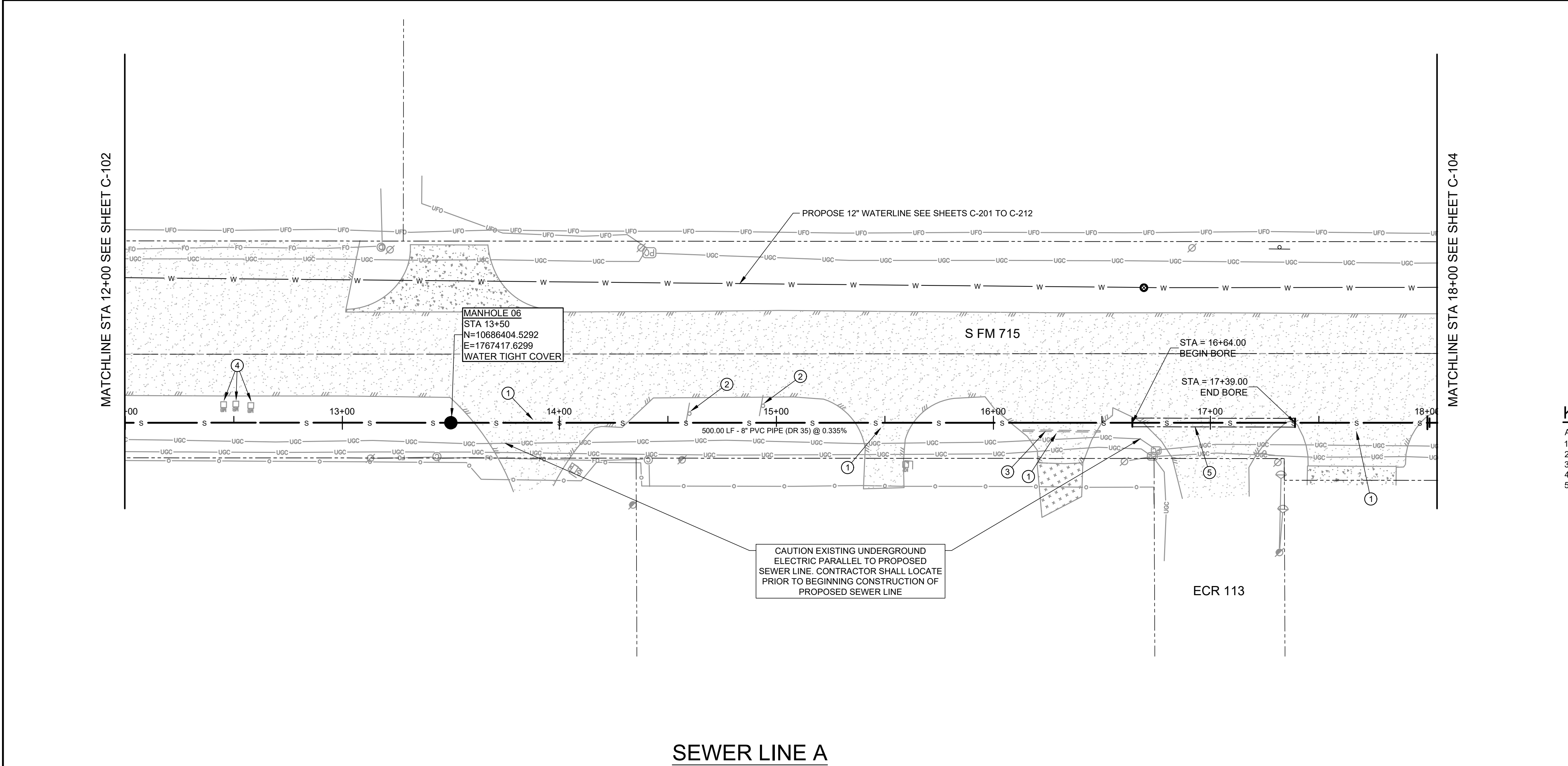
4 07-10-2024 Sealed Set
3 06-20-2024 100% Review
2 05-08-2024 80% Review
1 04-01-2024 60% City Review

DATE DESCRIPTION

Sewer Line A
Plan and Profile
Sta 6+00 To
Sta 12+00

C-102

A:\2023\41563.23\03_DSGN\01_DWG\050_CIVIL\03-103-41563.DWG, 6/19/2024 11:01:17 AM, jvasquez



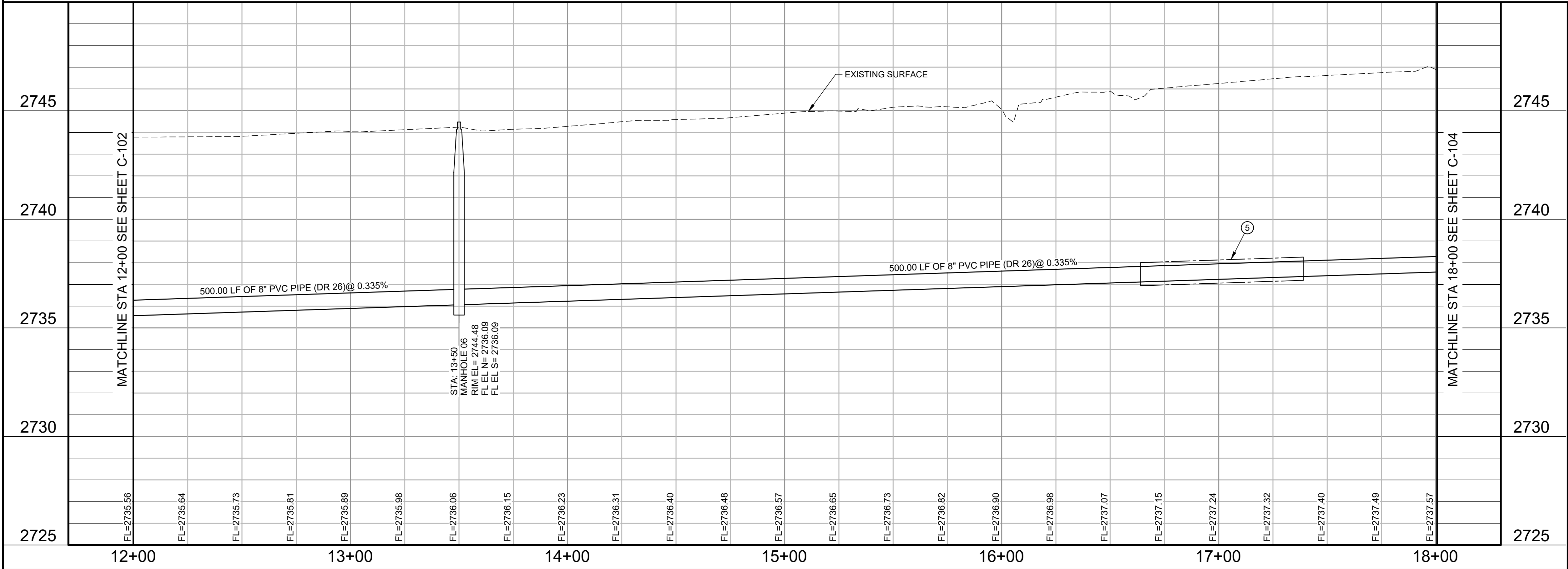
KEY NOTES

AS INDICATED BY: (10)

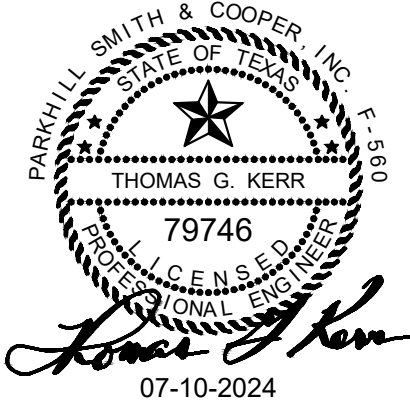
1. REMOVE AND REPLACE SIGN AS NEEDED.
2. REMOVE AND REPLACE ASPHALT PAVEMENT AS NEEDED.
3. REMOVE AND REPLACE CULVERT PIPE AS NEEDED.
4. REMOVE AND REPLACE MAIL BOX AS NEEDED.
5. 75 LF O 16" STEEL CASING (0.375" T) IN BORE

HORZ SCALE: 0 30' 60'

VERT SCALE: 0 3' 6'



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PROJECT NO.

41563.23

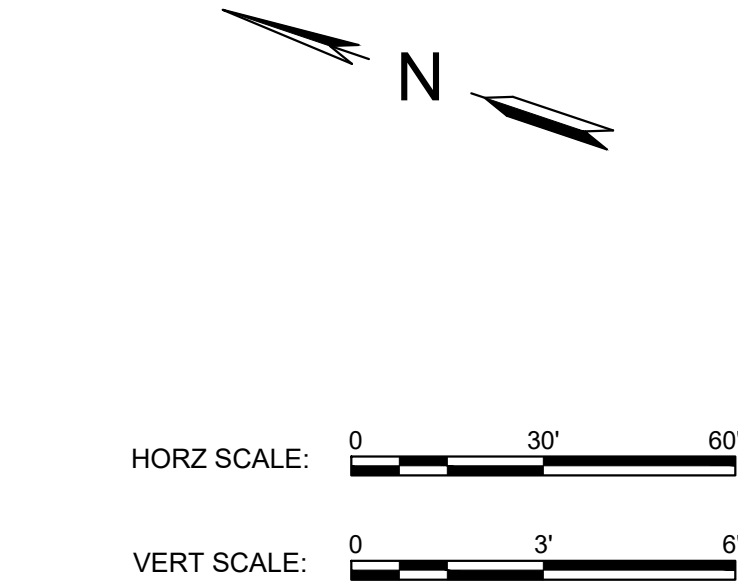
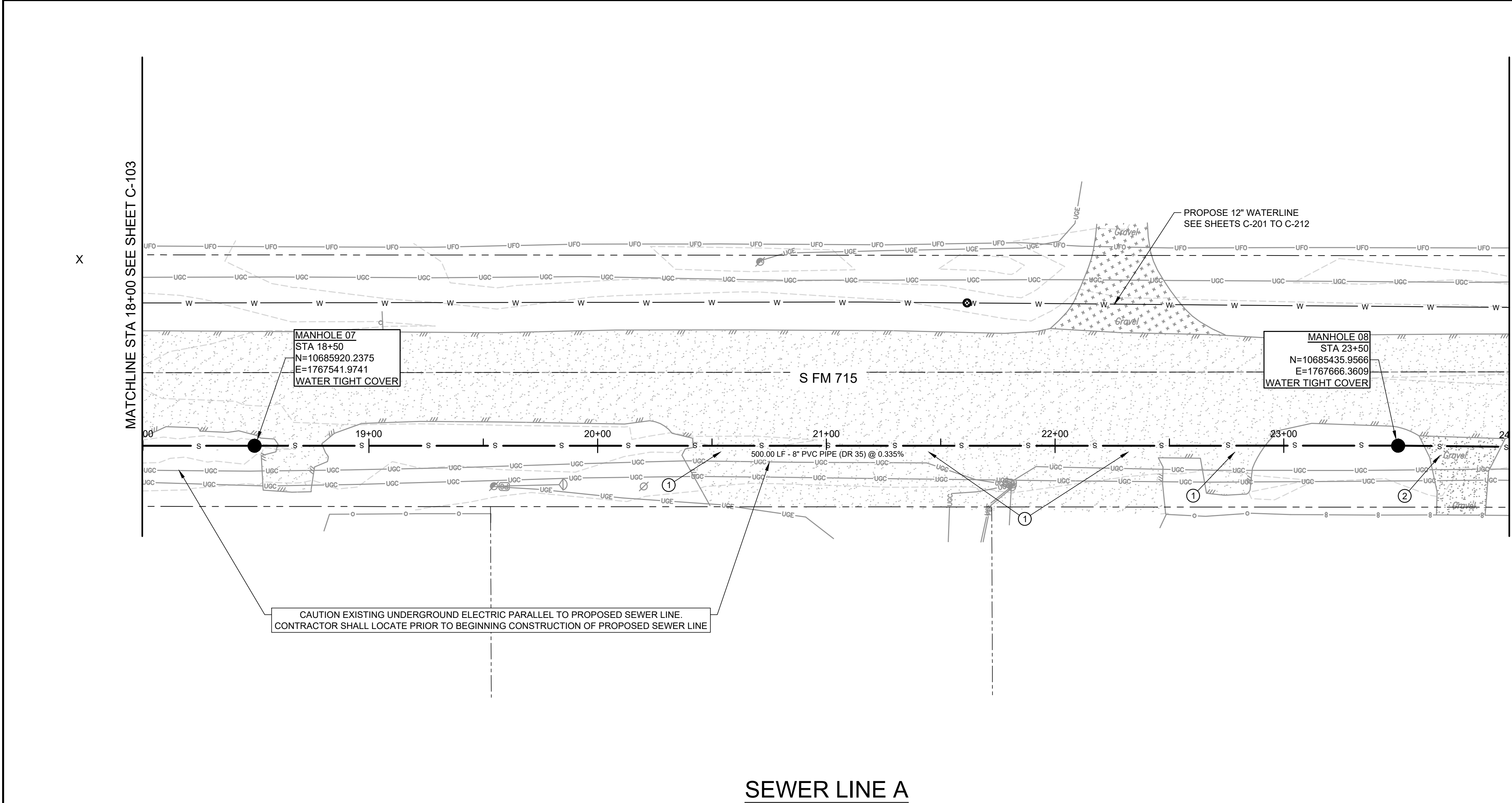
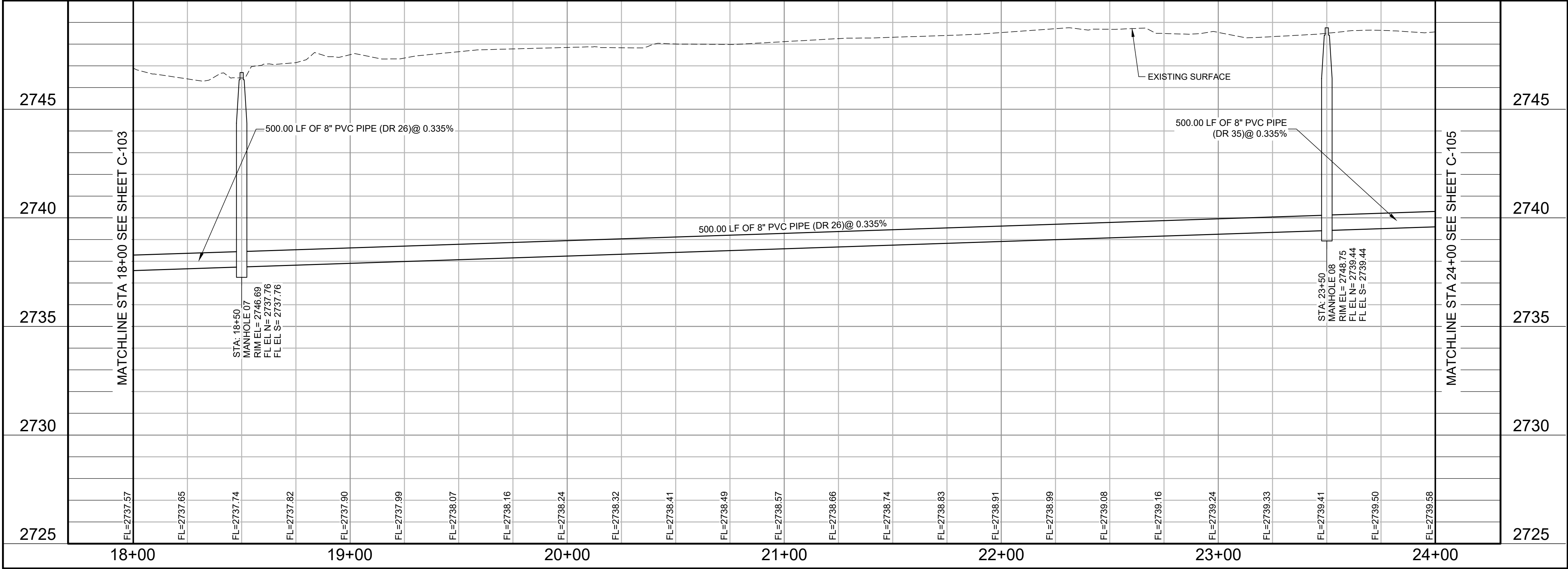
4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

DATE DESCRIPTION

Sewer Line A
Plan and Profile
Sta 12+00 To
Sta 18+00

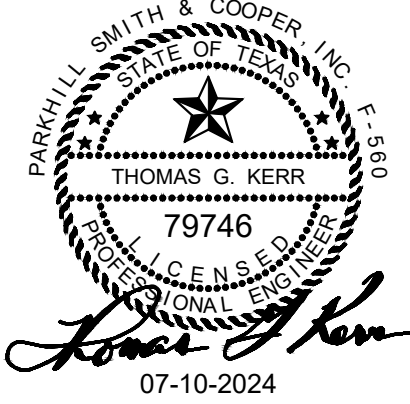
C-103

A:\2023\41563.23\03_DSGN\01_DWG\050_CIVIL\04-104-1563.DWG, 6/5/2024 12:02:57 PM, jvasquez



- KEY NOTES**
- AS INDICATED BY: (10)
1. REMOVE AND REPLACE ASPHALT PAVEMENT AS NEEDED.
 2. REMOVE AND REPLACE GRAVEL PAVEMENT AS NEEDED.

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4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

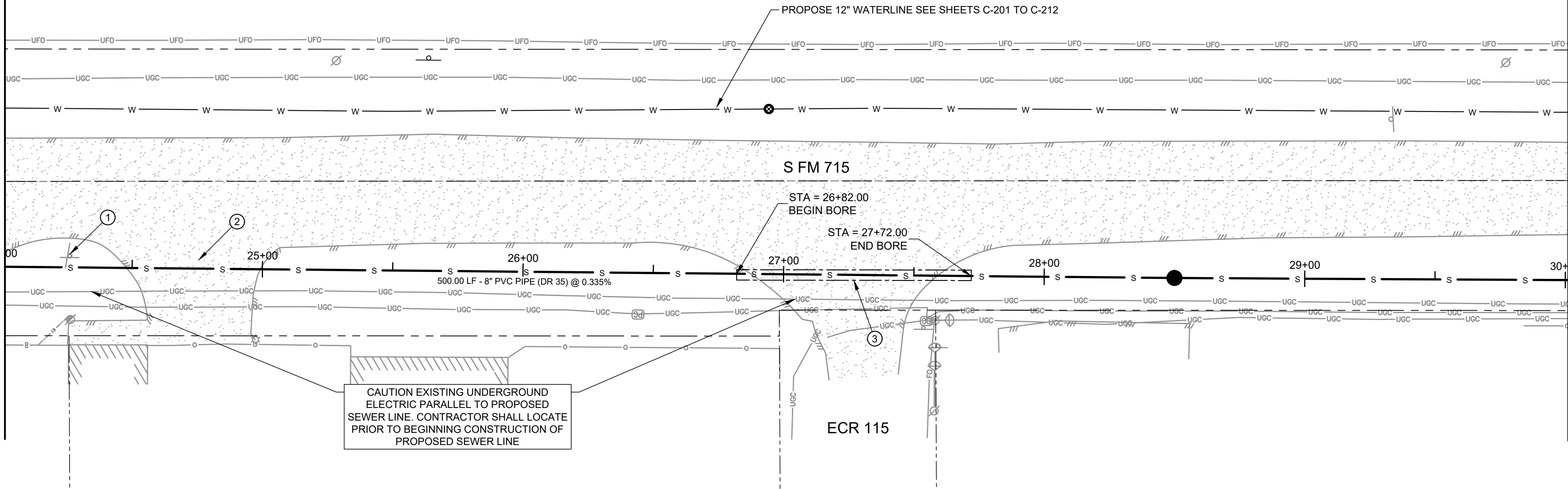
DATE DESCRIPTION

Sewer Line A
Plan and Profile
Sta18+00 To
Sta 24+00

C-104

A:\2023\41563.23\03_DSGN\01_DWG\050_CIVIL\01-105-41563.DWG, 7/8/2024 3:18:34 PM, jvasquez

MATCHLINE STA 24+00 SEE SHEET C-104



MATCHLINE STA 30+00 SEE SHEET C-106



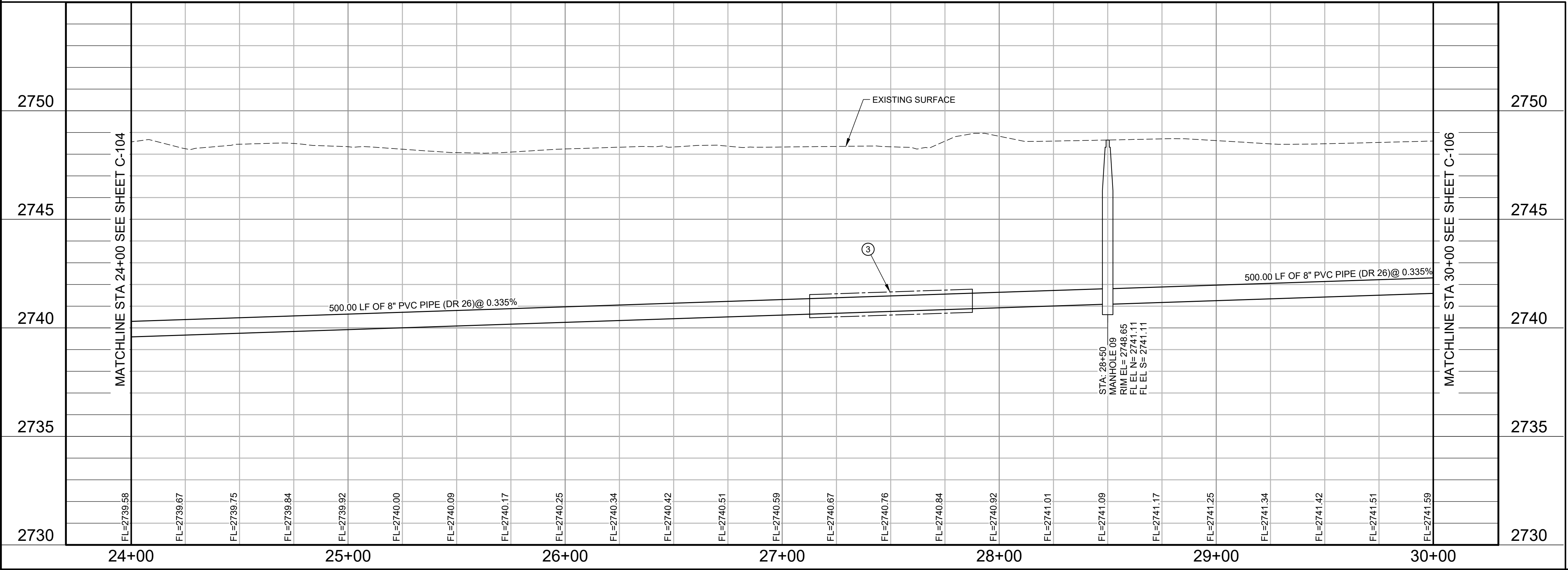
HORZ SCALE: 0 30' 60'

VERT SCALE: 0 3' 6'

KEY NOTES

- AS INDICATED BY: (C)
1. REMOVE AND REPLACE SIGN AS NEEDED.
 2. REMOVE AND REPLACE ASPHALT PAVEMENT AS NEEDED.
 3. 75 LF OF 16" STEEL CASING (0.375" T) IN BORE.

SEWER LINE A



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41563.23

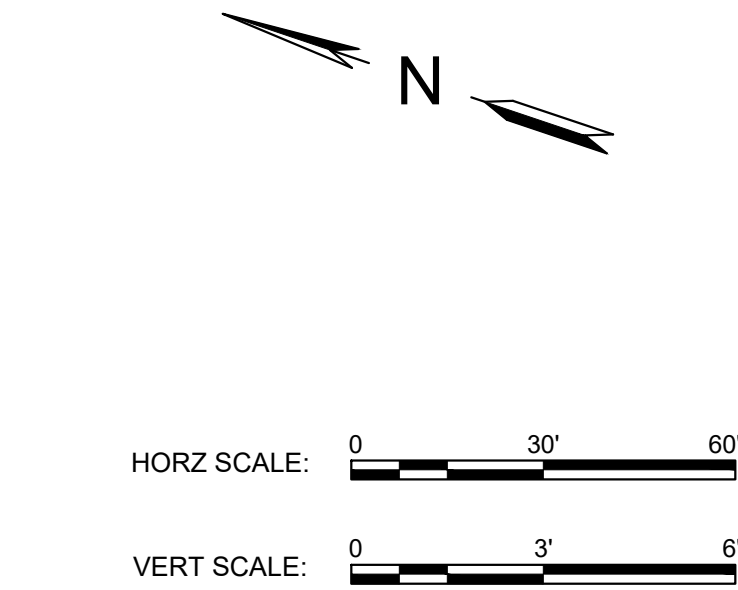
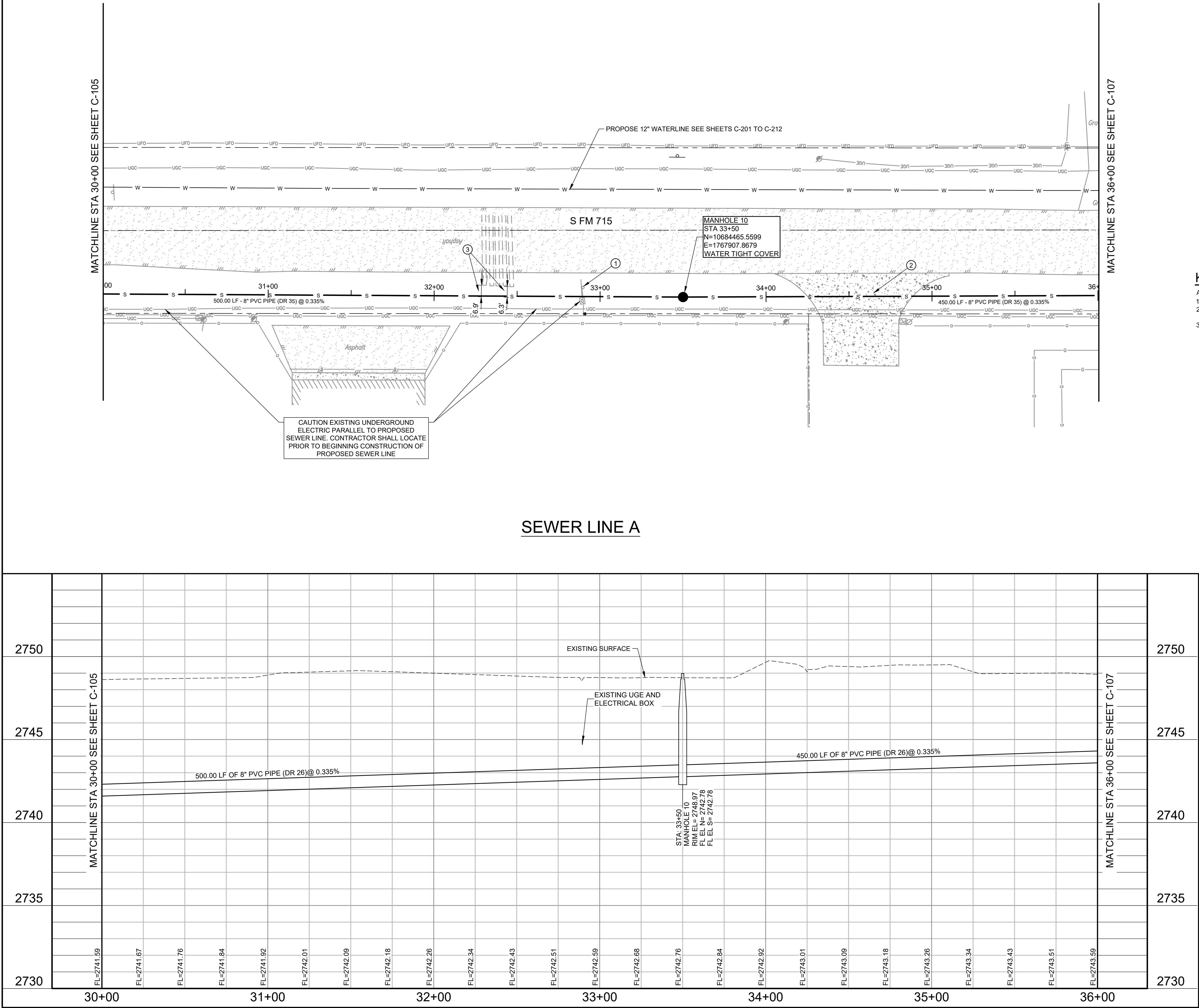
4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

DATE DESCRIPTION

Sewer Line A
Plan and Profile
Sta 24+00 To
Sta 30+00

C-105

A:\2023\41563.23\03_DSGN\01_DWG\650_CIVIL\LC-106-41563.DWG, 7/8/2024 3:17:33 PM, jvasquez



- KEY NOTES**
- AS INDICATED BY: (C)
- REMOVE AND REPLACE SIGN AND ELECTRIC AS NEEDED.
 - REMOVE AND REPLACE CONCRETE PAVEMENT AS NEEDED.
 - EXISTING DRAINAGE CULVERT, CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES NOT TO DAMAGE CULVERT. CONTRACTOR SHALL RETURN EXISTING GROUND BACK TO EXISTING CONDITION SO NOT TO CHANGE OR OBSTRUCT EXISTING DRAINAGE. ANY DAMAGE TO DRAINAGE CULVERTS SHALL BE REPAIRED AT CONTRACTORS EXPENSE.

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4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

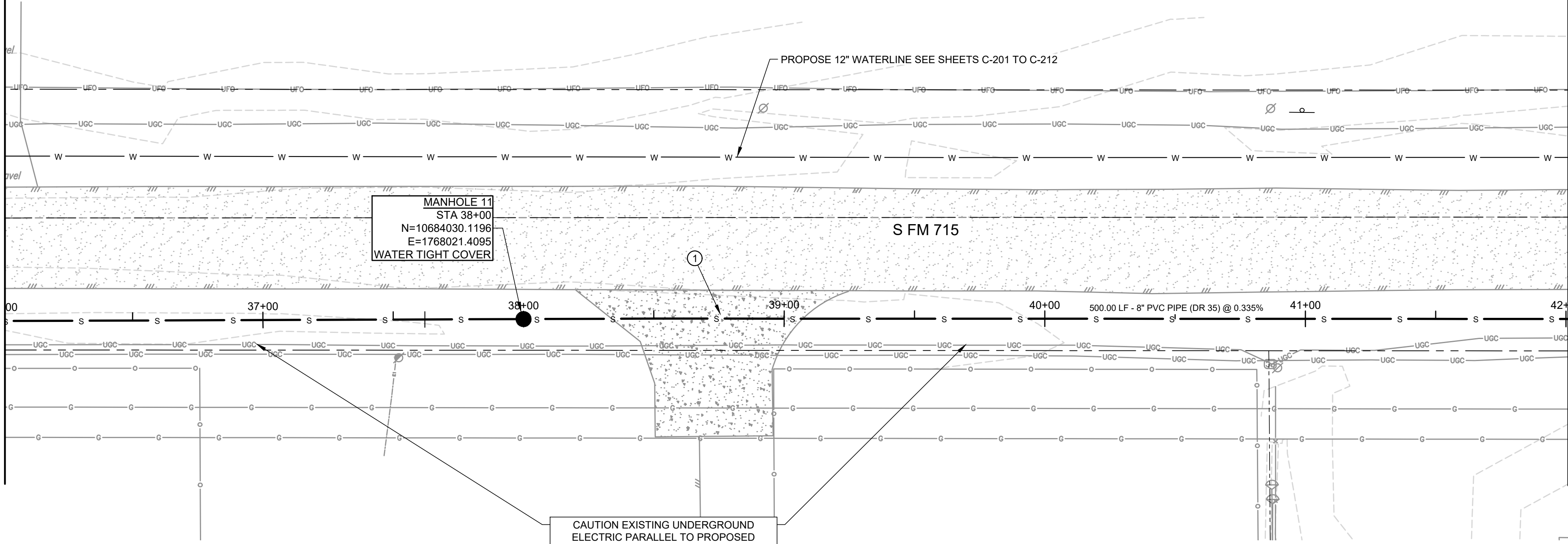
DATE DESCRIPTION

**Sewer Line A
Plan and Profile
Sta 30+00 To
Sta 36+00**

C-106

A:\2023\41563.23\03_DSGN\01_DWG\050_CIVIL\01-107-41563.DWG, 6/6/2024 7:26:25 AM, jvasquez

MATCHLINE STA 36+00 SEE SHEET C-106



MATCHLINE STA 42+00 SEE SHEET C-108



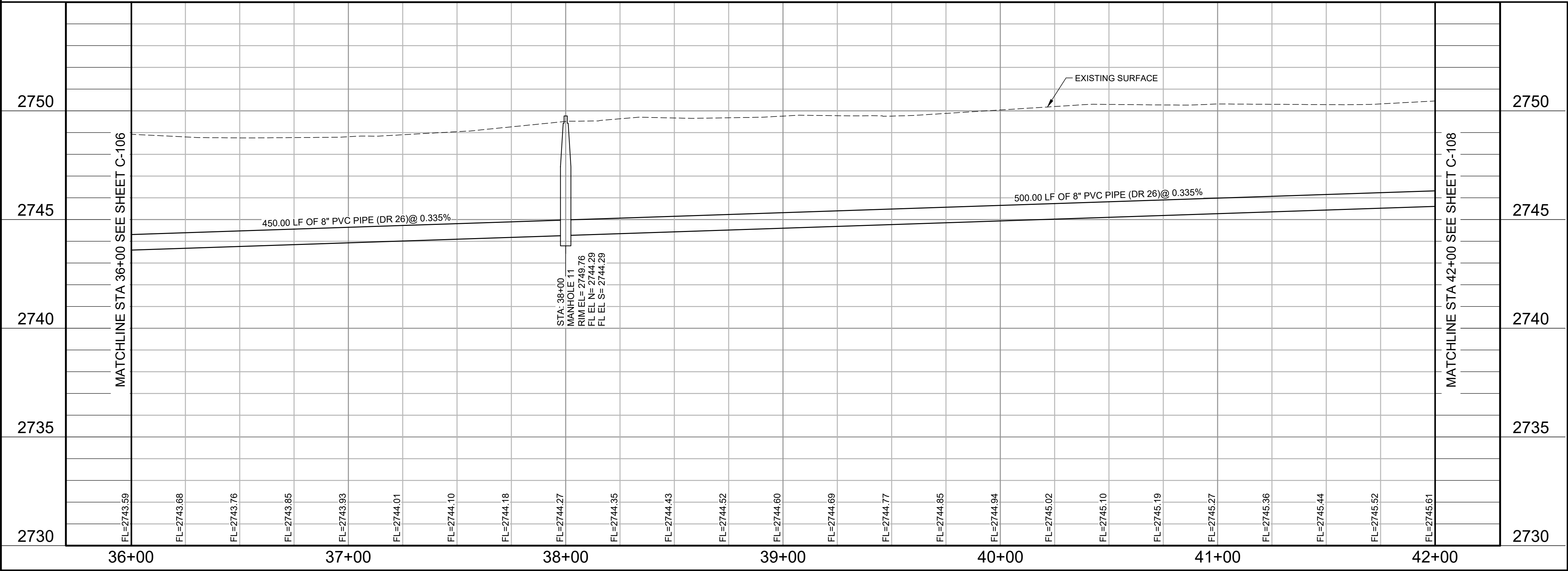
HORZ SCALE: 0 30' 60'

VERT SCALE: 0 3' 6'

KEY NOTES

- AS INDICATED BY: (10)
1. REMOVE AND REPLACE CONCRETE PAVEMENT AS NEEDED.

SEWER LINE A



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PROJECT NO.

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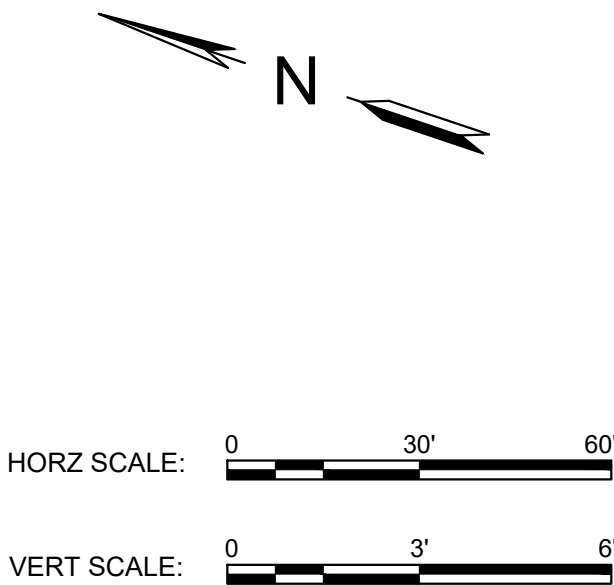
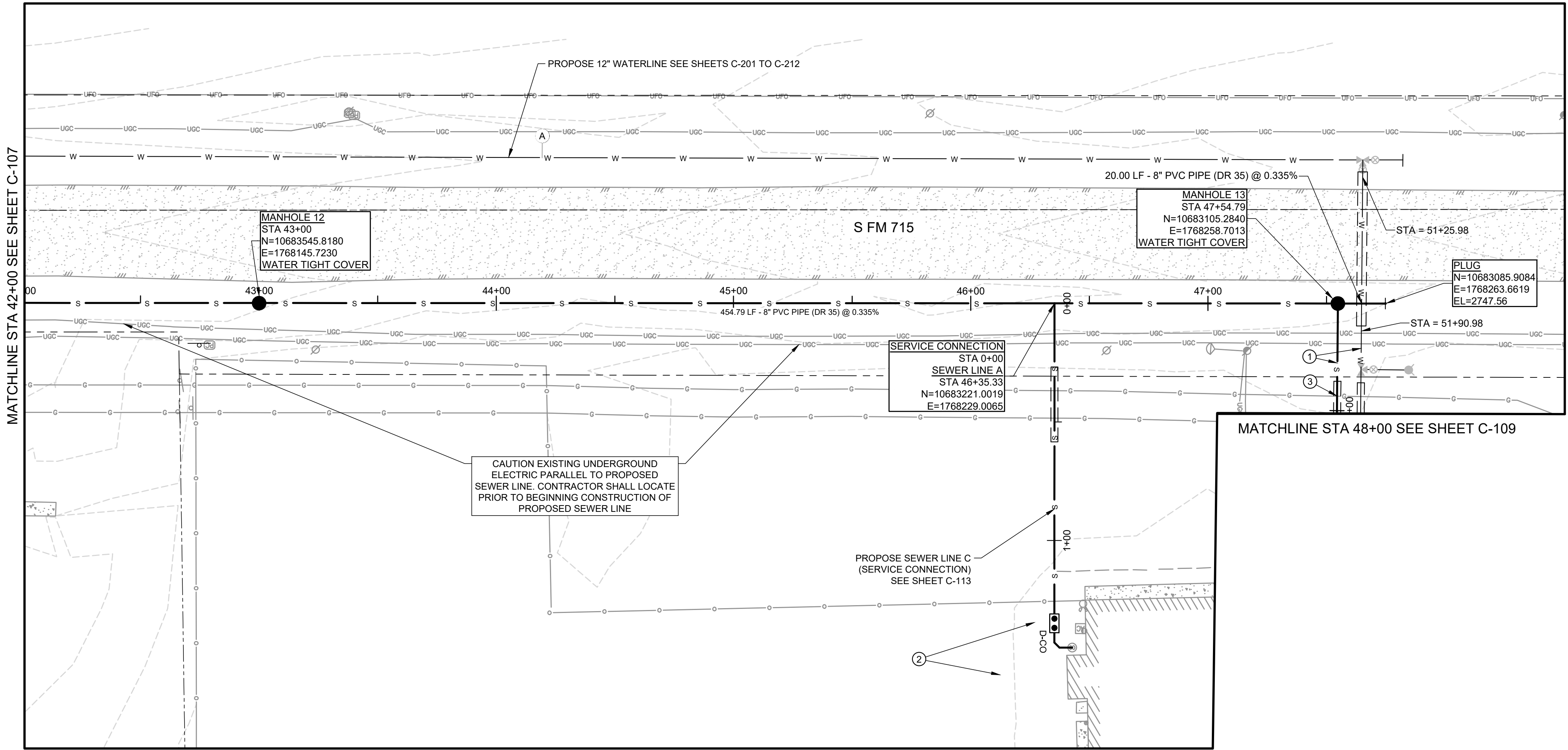
4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

DATE DESCRIPTION

Sewer Line A
Plan and Profile
Sta 36+00 To
Sta 42+00

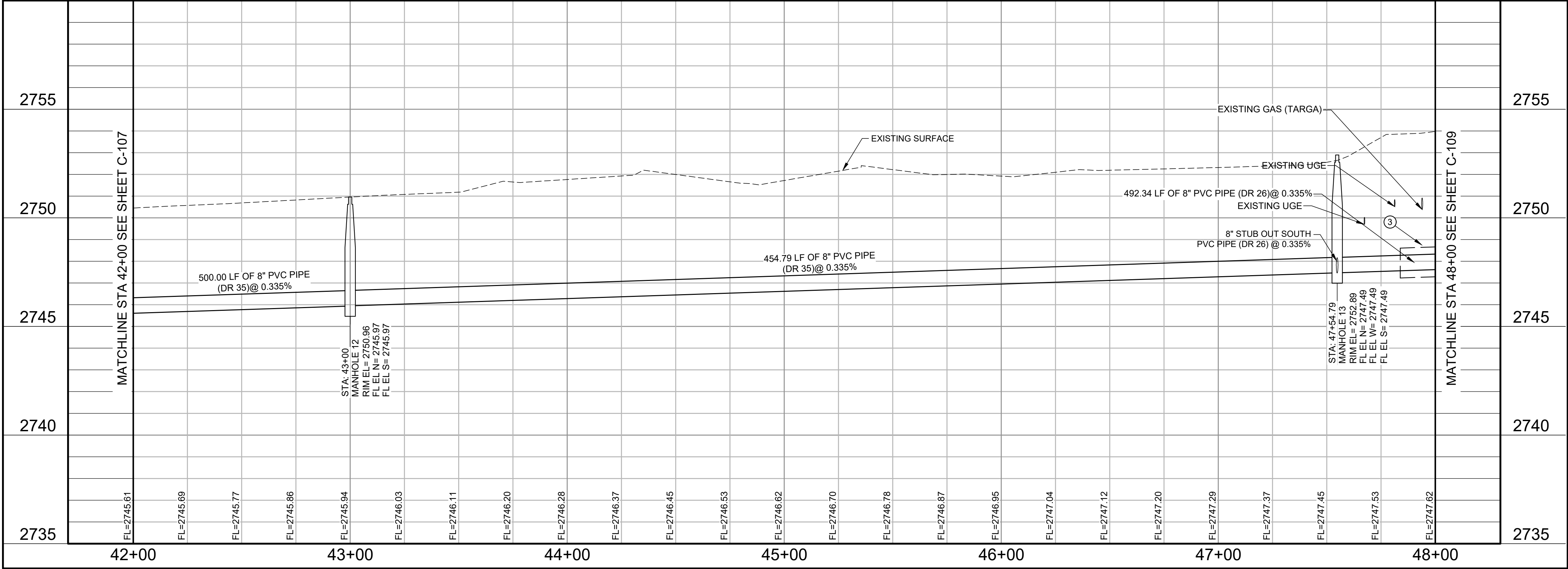
C-107

A:\2023\41563.23\03_DSGN\01_DWG\050_CIVIL\01-108-1563.DWG, 7/9/2024 10:08:51 AM, jvasquez



- KEY NOTES**
- AS INDICATED BY: (10)
1. PARALLEL WATER WASTEWATER SPACING SEE DETAIL 306 SHEET C-501.
 2. DECOMMISSION SEPTIC SYSTEM NO. 1 AS DETAILED IN CONTRACT SPECIFICATIONS.
 3. WASTEWATER MAIN CROSSING PETROLEUM LINE SEE DETAIL 308 SHEET C-501.

SEWER LINE A



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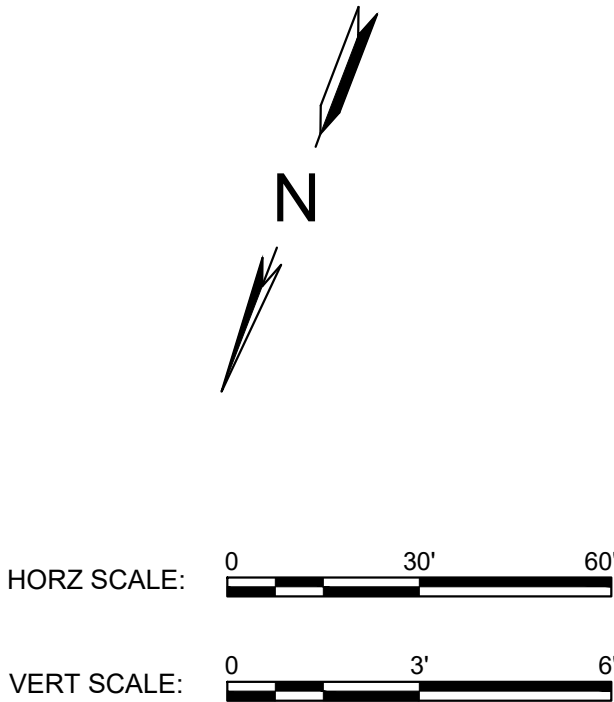
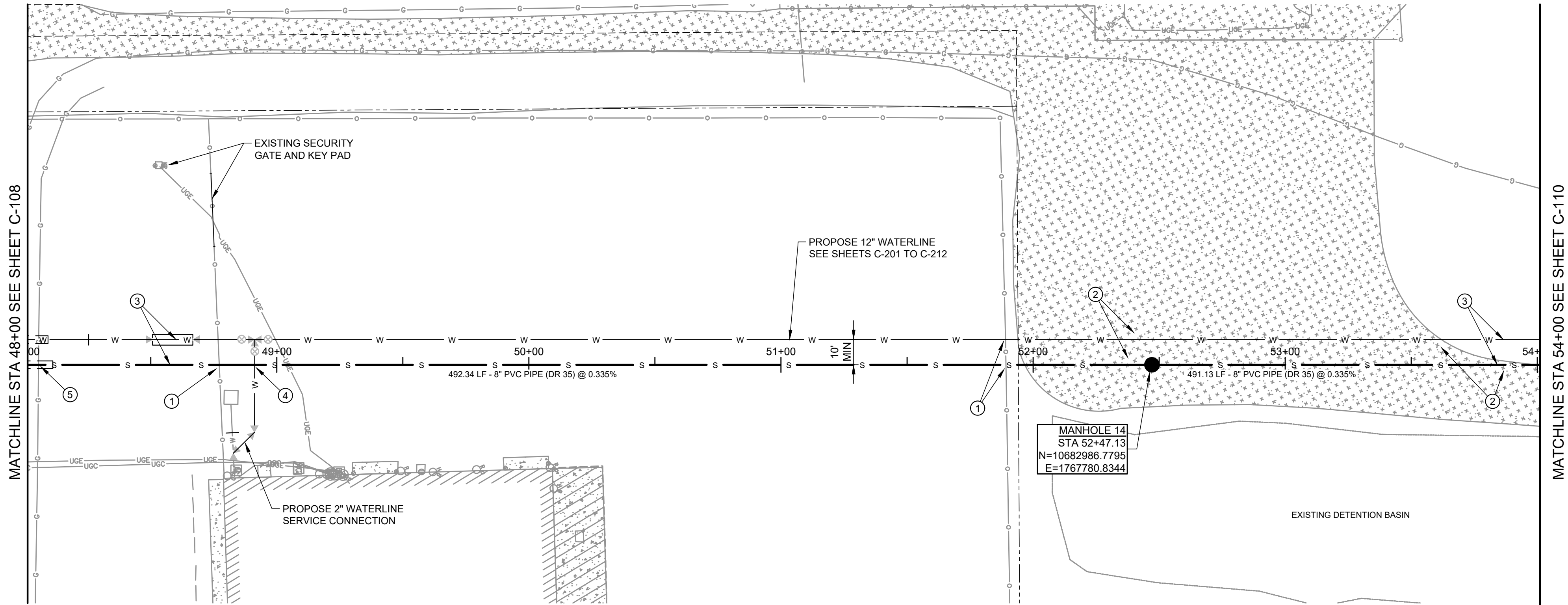


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PROJECT NO.		
41563.23		
4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review
#	DATE	DESCRIPTION

Sewer Line A
Plan and Profile
Sta 42+00 To
Sta 48+00

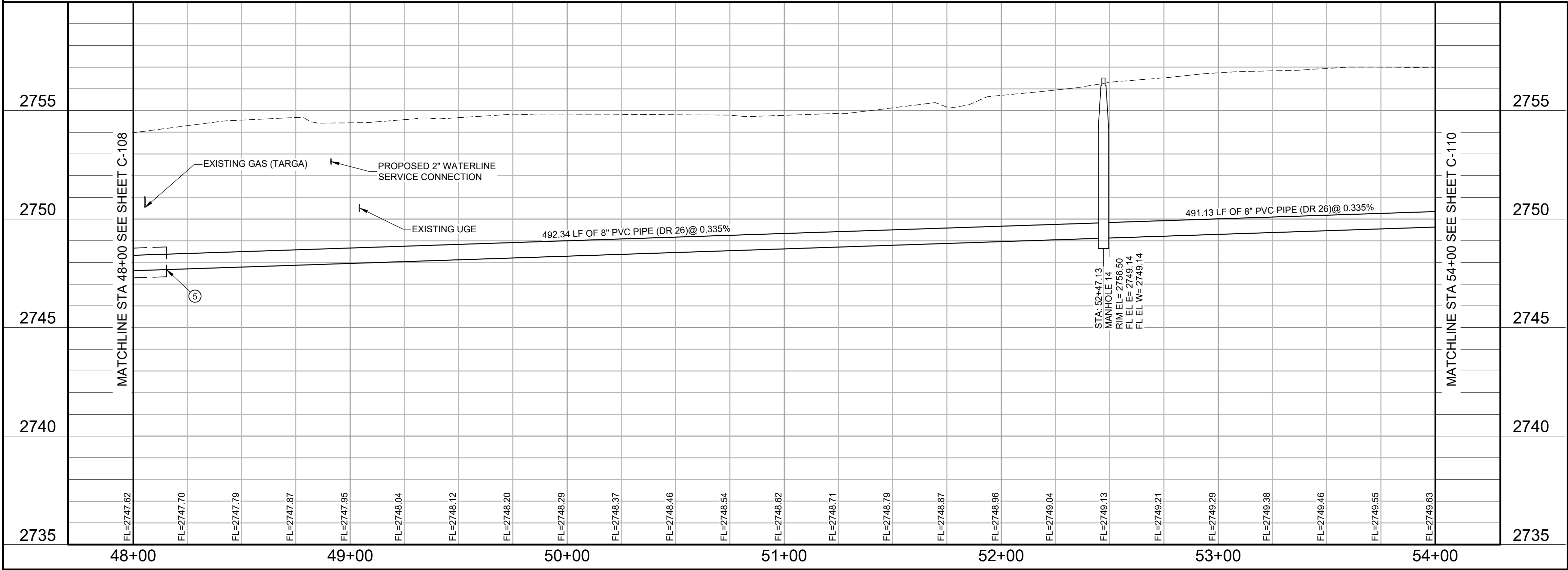
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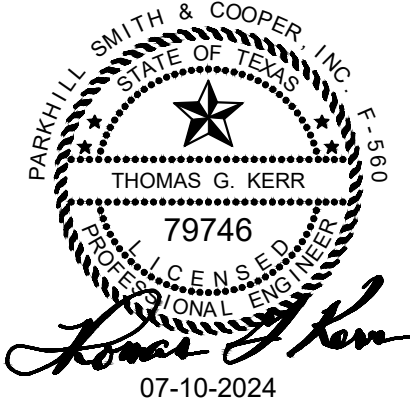


- KEY NOTES**
- AS INDICATED BY: (C)
1. REMOVE AND REPLACE SECURITY FENCE AS NEEDED.
 2. REMOVE AND REPLACE GRAVEL PAVEMENT AS NEEDED.
 3. PARALLEL WATER WASTEWATER SPACING SEE DETAIL 306 SHEET C-501.
 4. SANITARY SEWER CROSSING, SEE DETAIL 309 SHEET C-501.
 5. SANITARY SEWER CROSSING PETROLEUM LINE SEE DETAIL 308 SHEET C-501.

SEWER LINE A



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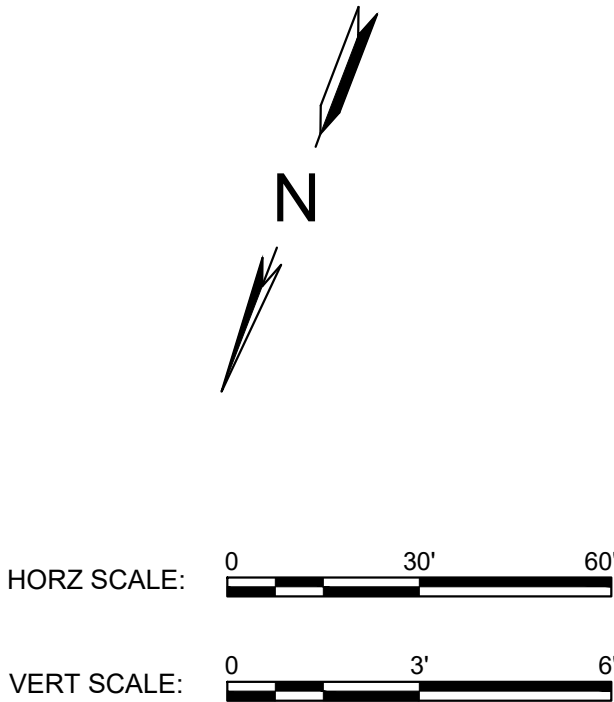
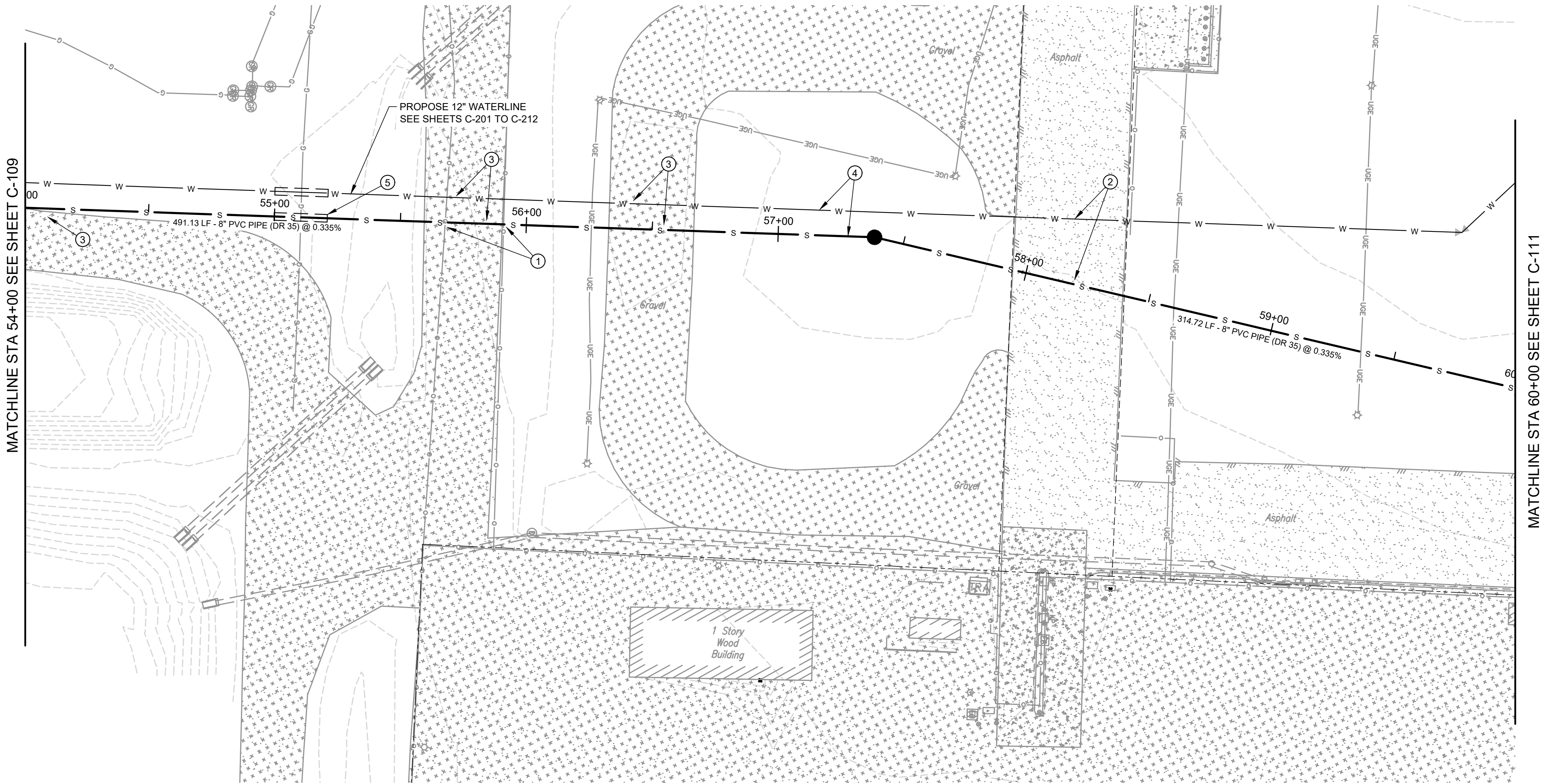
4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

DATE DESCRIPTION

Sewer Line A
Plan and Profile
Sta 48+00 To
Sta 54+00

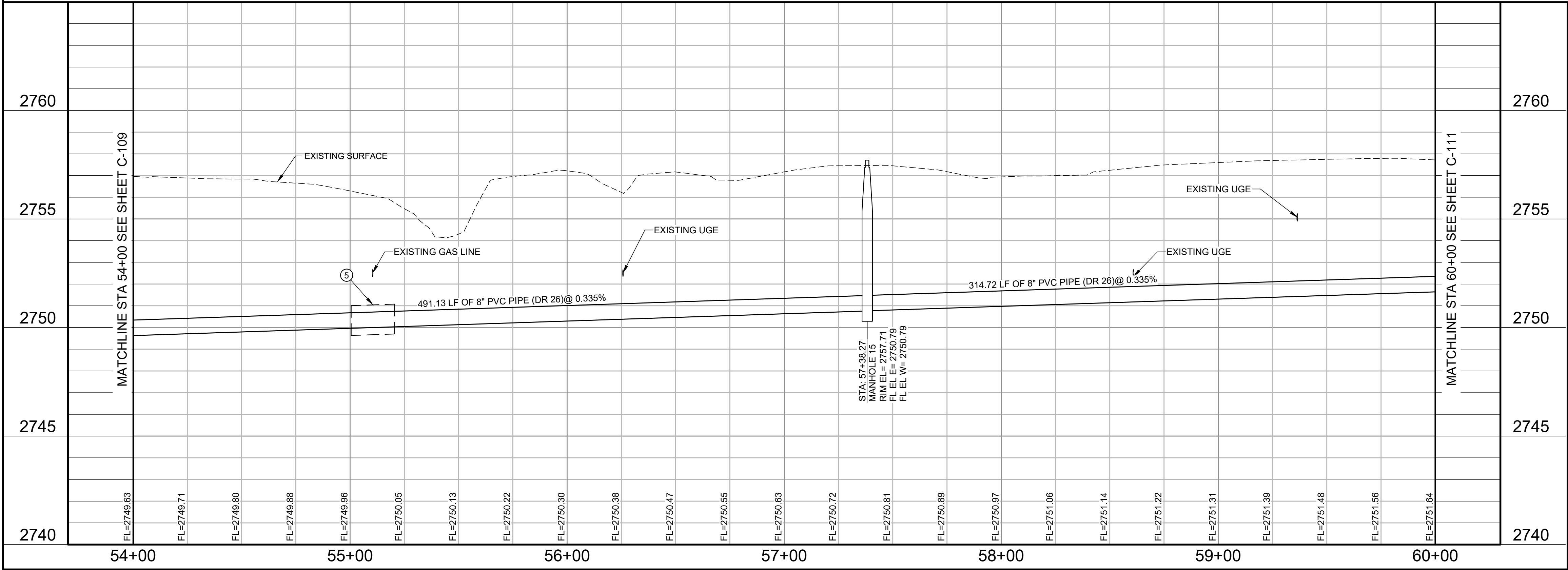
C-109

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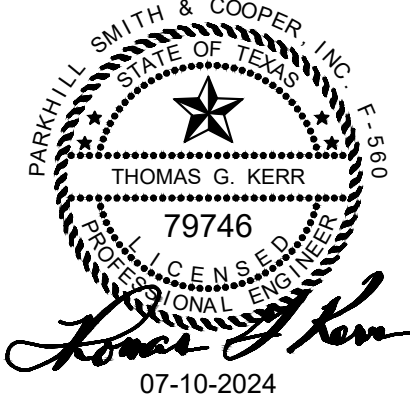


- KEY NOTES**
- AS INDICATED BY: (C)
1. REMOVE AND REPLACE SECURITY FENCE AS NEEDED.
 2. REMOVE AND REPLACE ASPHALT PAVEMENT AS NEEDED.
 3. REMOVE AND REPLACE GRAVEL PAVEMENT AS NEEDED.
 4. PARALLEL WATER WASTEWATER SPACING SEE DETAIL 306 SHEET C-501.
 5. WASTEWATER MAIN CROSSING PETROLEUM LINE SEE DETAIL 308 SHEET C-501

SEWER LINE A



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PROJECT NO.
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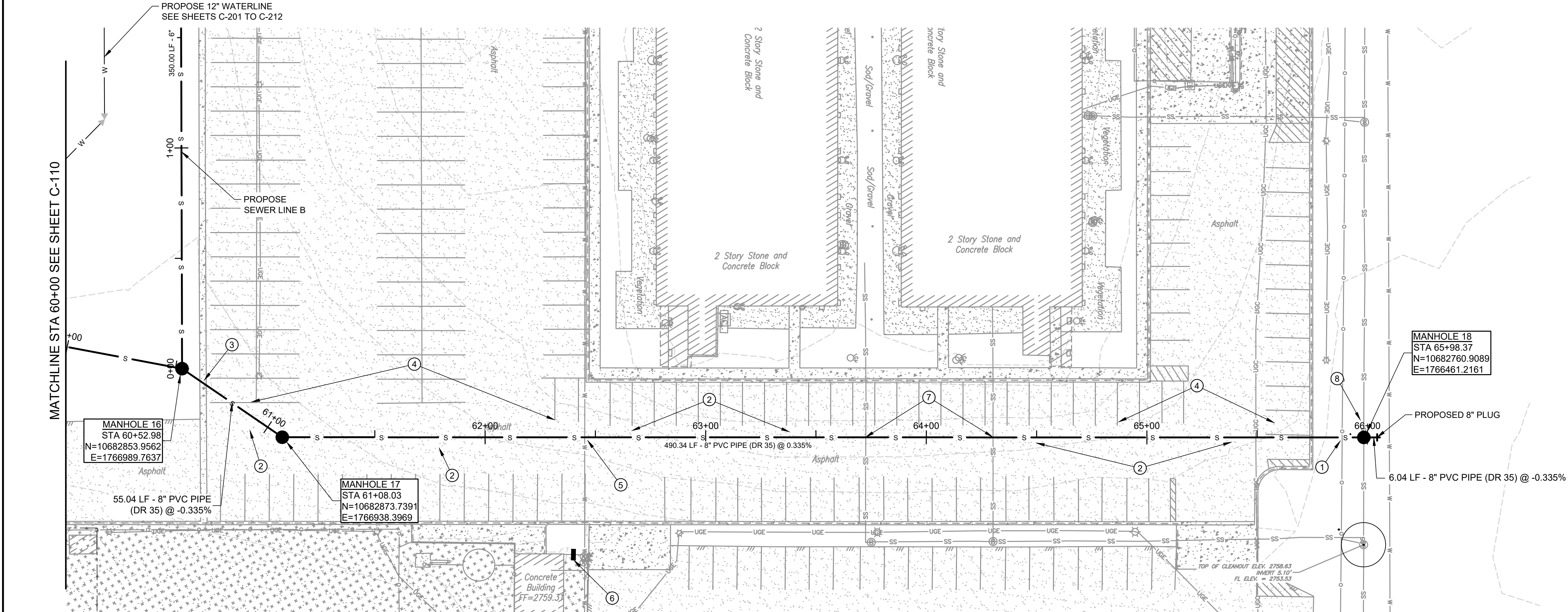
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3	06-20-2024	100% Review
2	05-08-2024	80% Review
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DATE DESCRIPTION

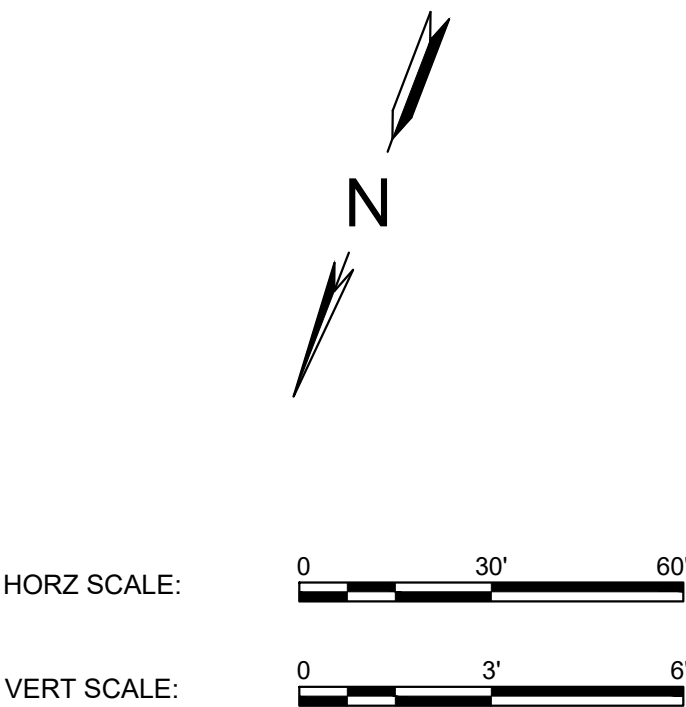
**Sewer Line A
Plan and Profile
Sta 54+00 To
Sta 60+00**

C-110

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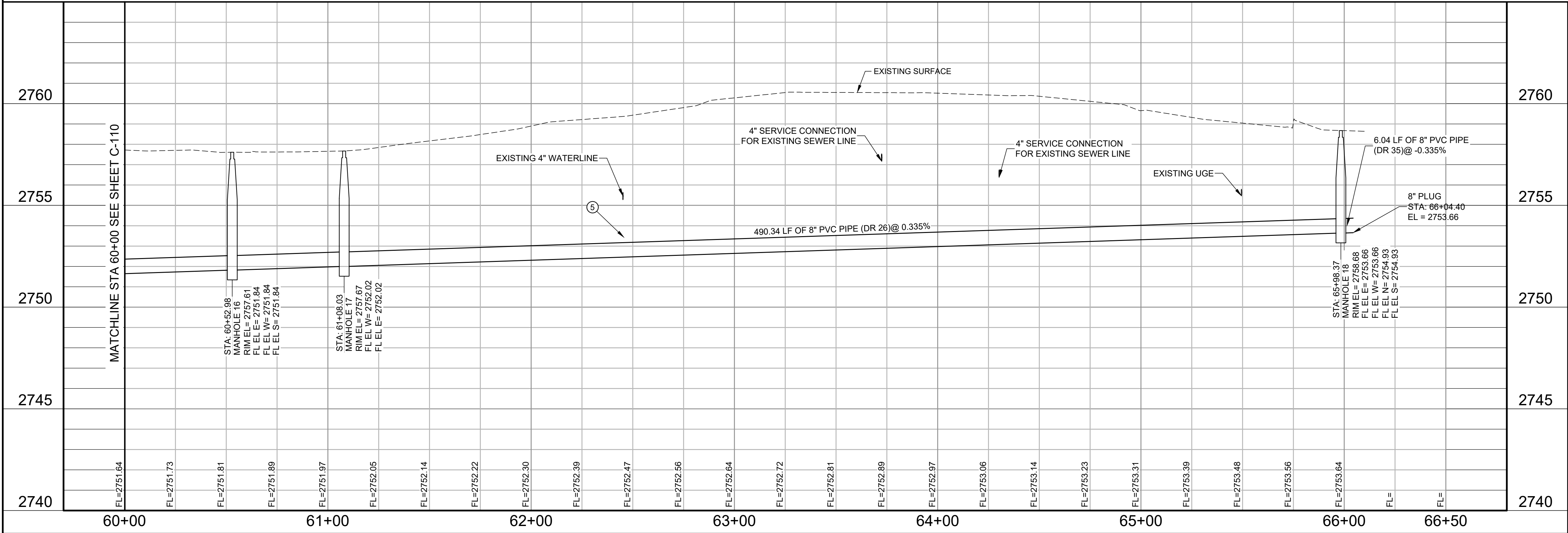


SEWER LINE A

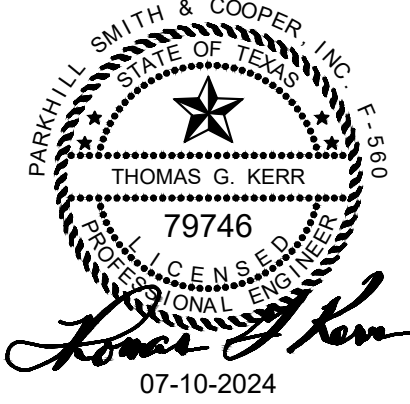


KEY NOTES

- AS INDICATED BY: (10)
1. REMOVE AND REPLACE SECURITY FENCE AS NEEDED.
 2. REMOVE AND REPLACE ASPHALT PAVEMENT AS NEEDED.
 3. REMOVE AND REPLACE CONCRETE CURB AS NEEDED.
 4. RESTRIPE PARKING LOT AS NEEDED.
 5. SANITARY SEWER CROSSING, SEE DETAIL 309 SHEET C-501.
 6. CUT AND PLUG WATER LINE CONNECTION FROM PUMP STATION.
 7. CONNECT EXISTING SERVICE LINES TO NEW PIPELINE.
 8. CONNECT EXISTING SERVICE LINE TO NEW MANHOLE.



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PROJECT NO.

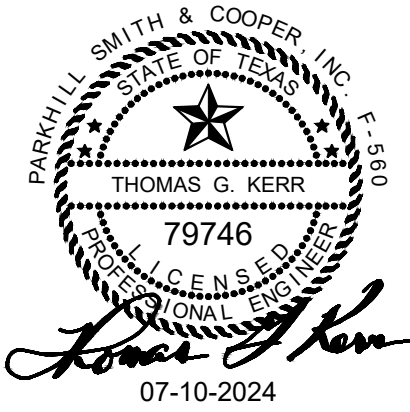
41563.23

4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

DATE DESCRIPTION

Sewer Line A
Plan and Profile
Sta 60+00 To
Sta 64+49

C-111



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PROJECT NO.

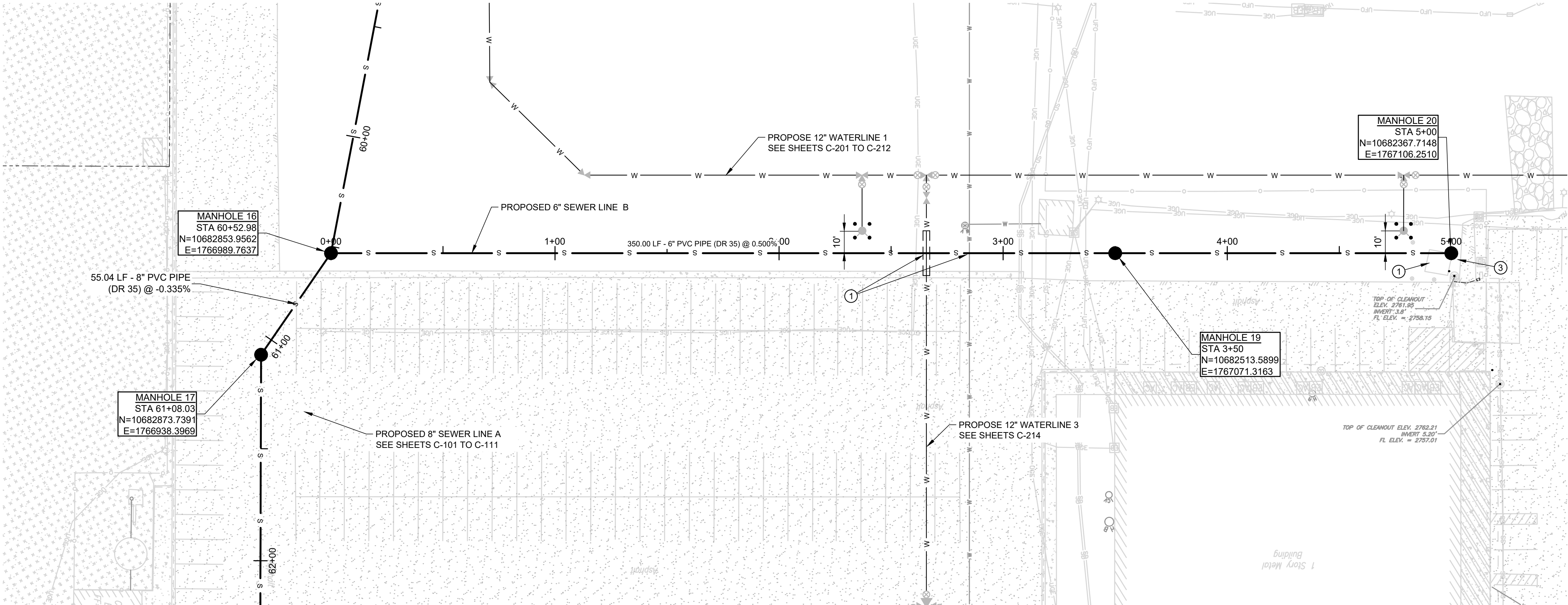
41563.23

4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

DATE DESCRIPTION

Sewer Line B
Plan and Profile
Sta 0+00 To
Sta 5+59.69

C-112



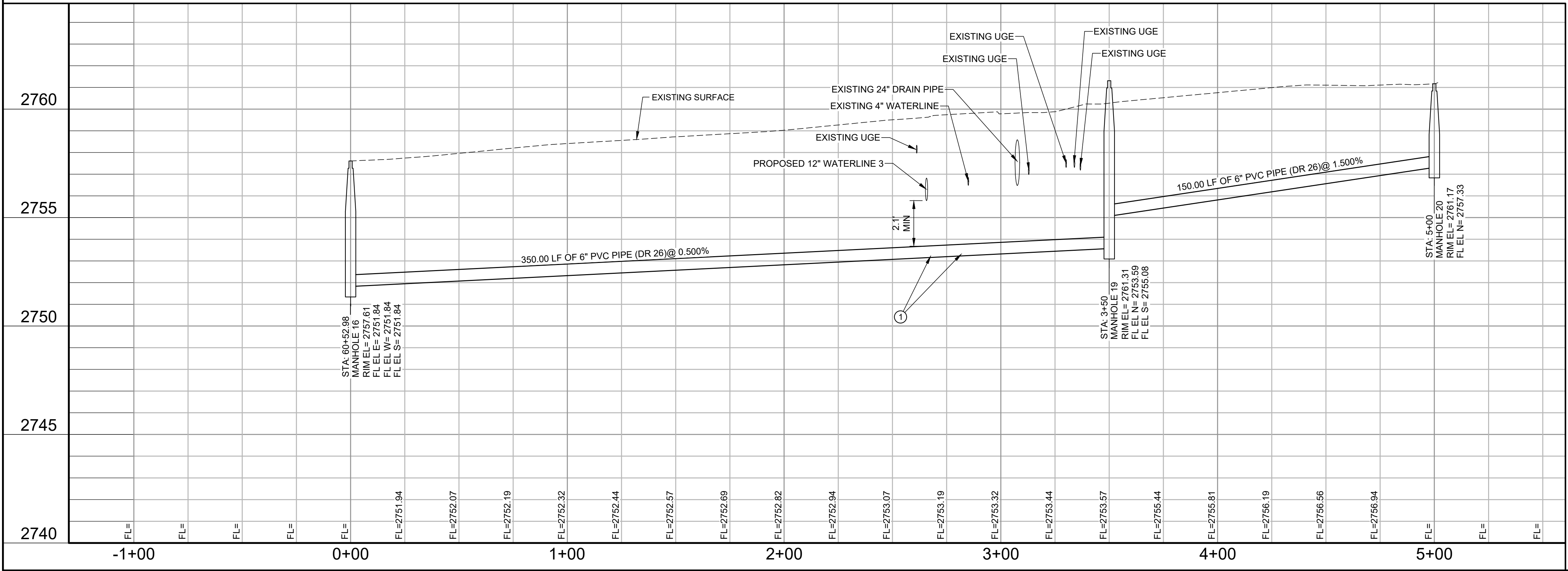
HORZ SCALE: 0 30' 60'

VERT SCALE: 0 3' 6'

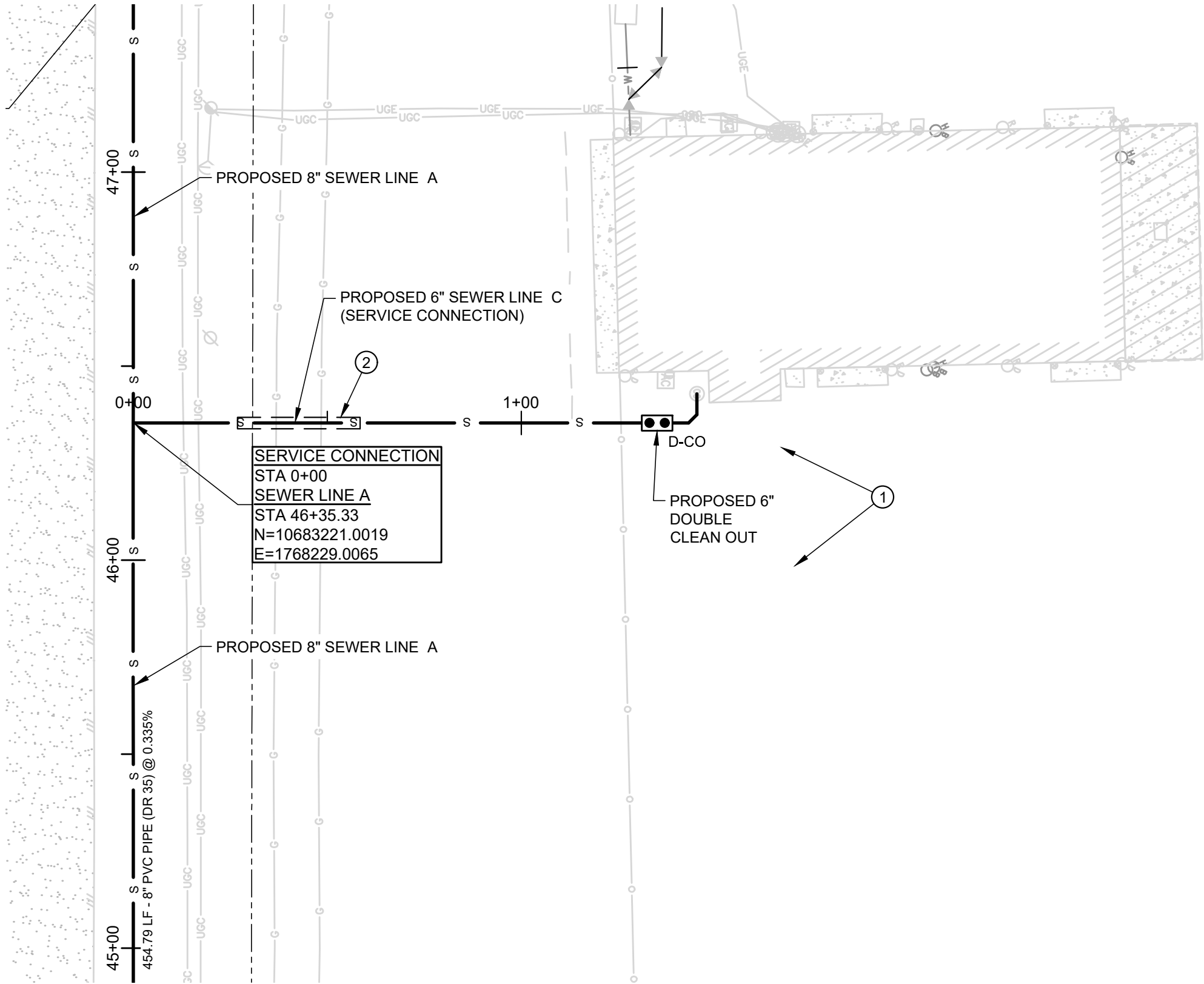
KEY NOTES

- AS INDICATED BY: (M)
- SANITARY SEWER CROSSING WATER, SEE DETAIL 309 SHEET C-501.
 - DECOMMISSION SEPTIC SYSTEM NO. 3 AS DETAILED IN CONTRACT SPECIFICATIONS.
 - CONNECT EXISTING SERVICE TO MANHOLE 20.

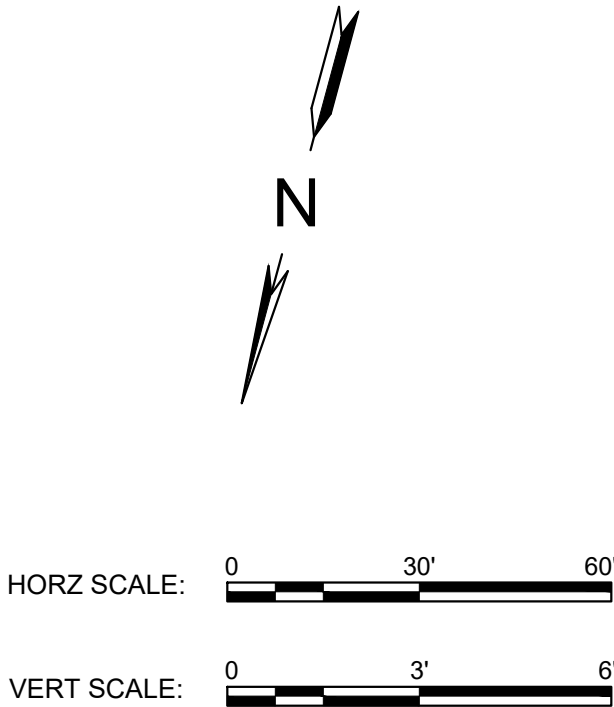
SEWER LINE B



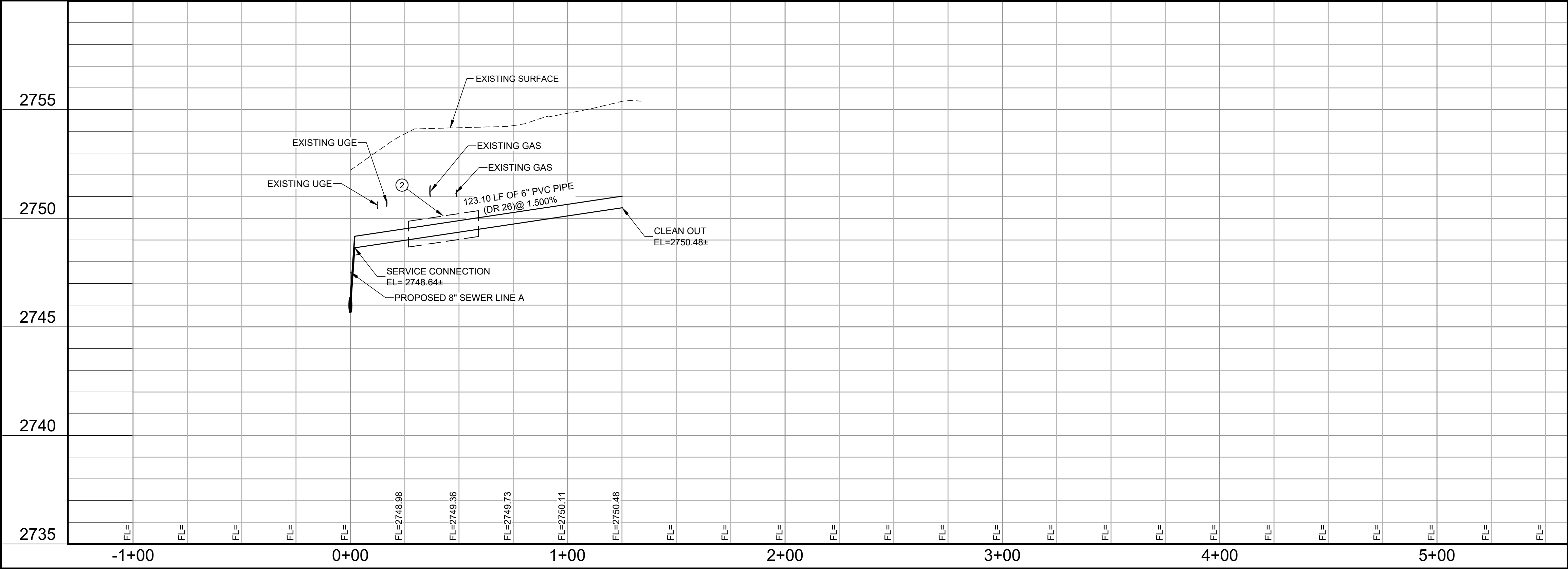
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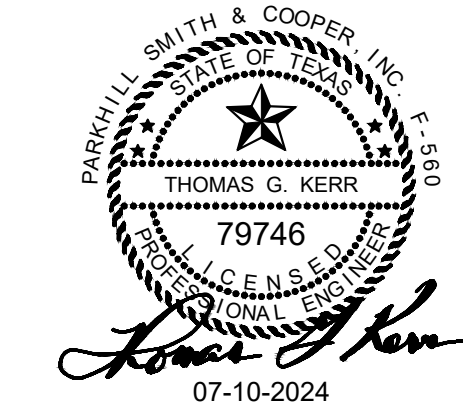
SEWER LINE C



- KEY NOTES**
- AS INDICATED BY: (10)
- DECOMMISSION SEPTIC SYSTEM NO. 1 AS DETAILED IN CONTRACT SPECIFICATIONS.
 - WASTEWATER SERVICE LINE CROSSING PETROLEUM LINE SEE DETAIL 308 SHEET C-501.



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PROJECT NO.
41563.23

4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

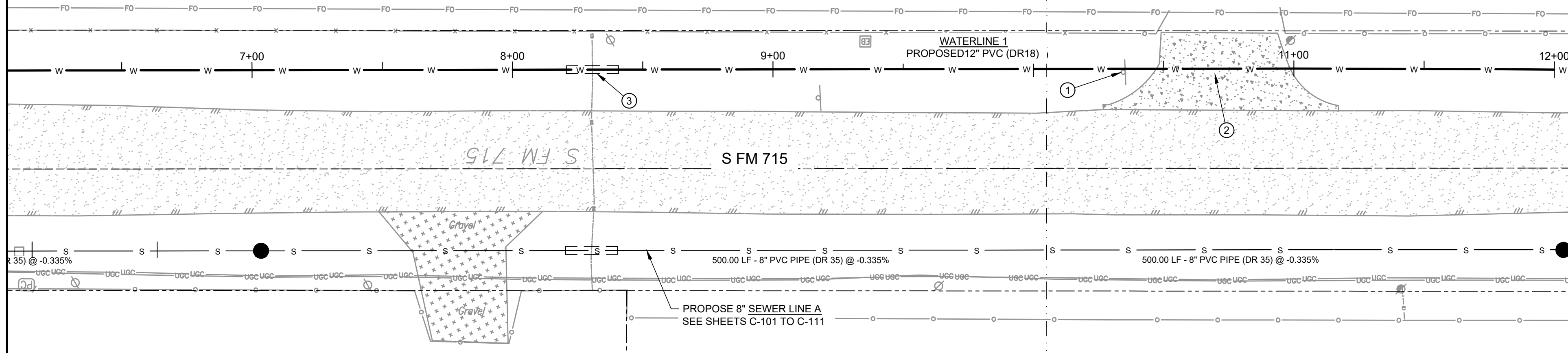
DATE DESCRIPTION

**Sewer Line C
Plan and Profile
Sta 0+00 To
Sta 1+25**

C-113

A:\2023\41563.23\03_DSGN\01_DWG\050_CIVIL\02-24\1563.DWG, 6/19/2024 12:04:03 PM, jvasquez

MATCHLINE STA 6+00 SEE SHEET C-201



MATCHLINE STA 12+00 SEE SHEET C-203



HORZ SCALE: 0 30' 60'

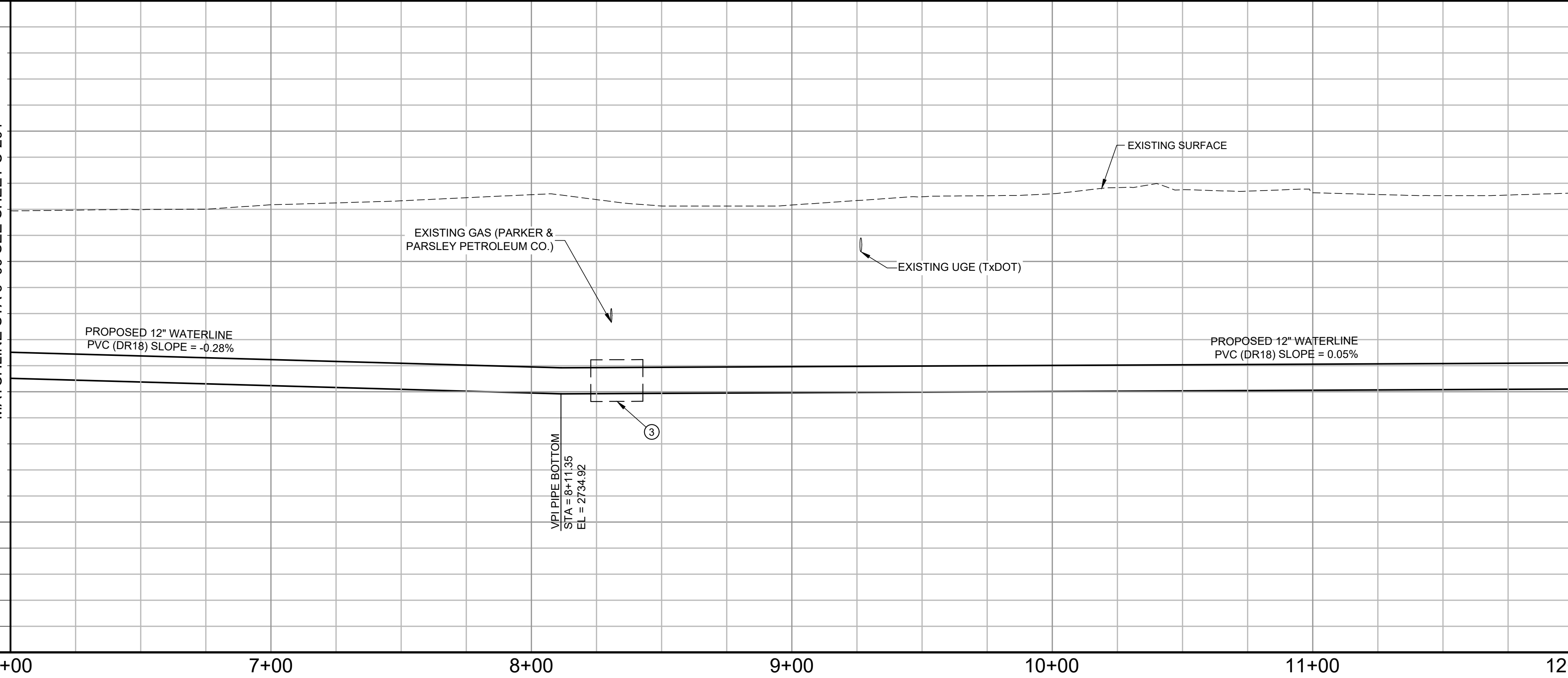
VERT SCALE: 0 3' 6'

KEY NOTES

- AS INDICATED BY: (C)
- REMOVE AND REPLACE SIGN AS NEEDED.
 - REMOVE AND REPLACE CONCRETE PAVEMENT AS NEEDED.
 - WATER CROSSING GAS OR PETROLEUM LINE. SEE DETAIL 308 SHEET C-501.

WATERLINE 1

MATCHLINE STA 6+00 SEE SHEET C-201



MATCHLINE STA 12+00 SEE SHEET C-203

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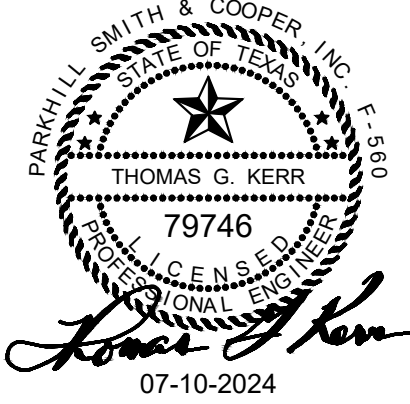


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PROJECT NO.		
41563.23		
4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review
#	DATE	DESCRIPTION

Waterline 1
Plan and Profile
Sta 6+00 To
Sta 12+00

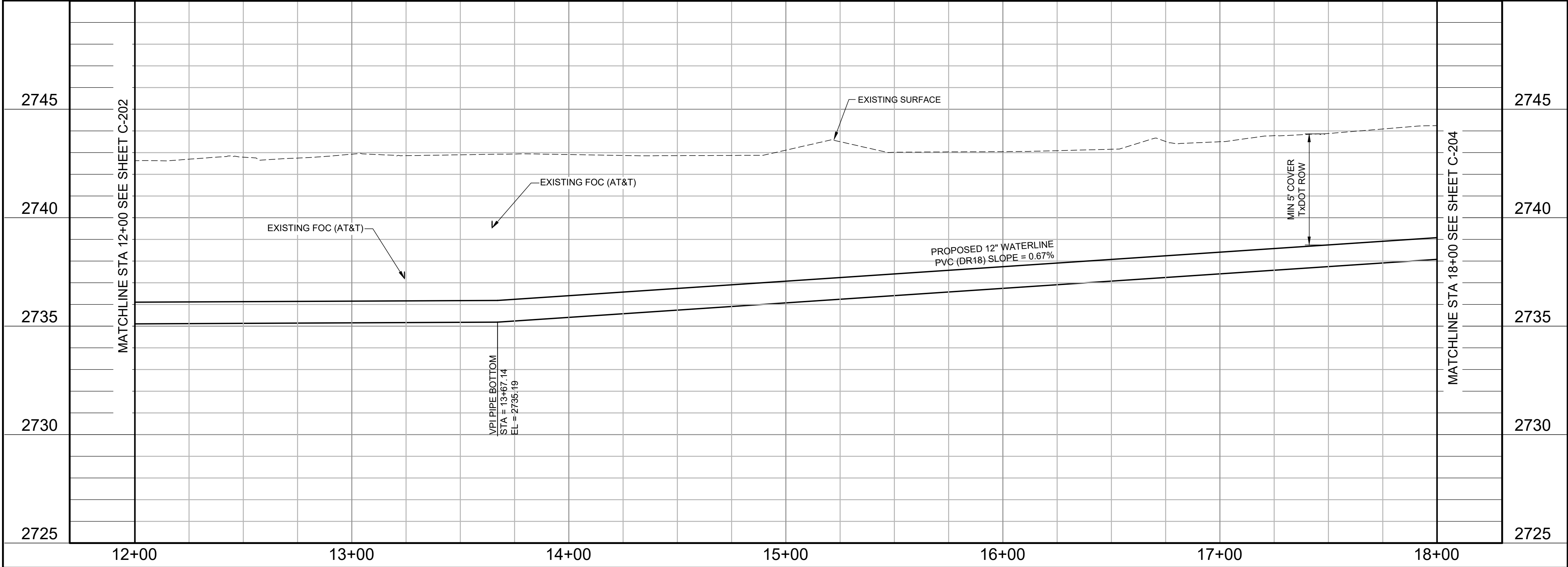
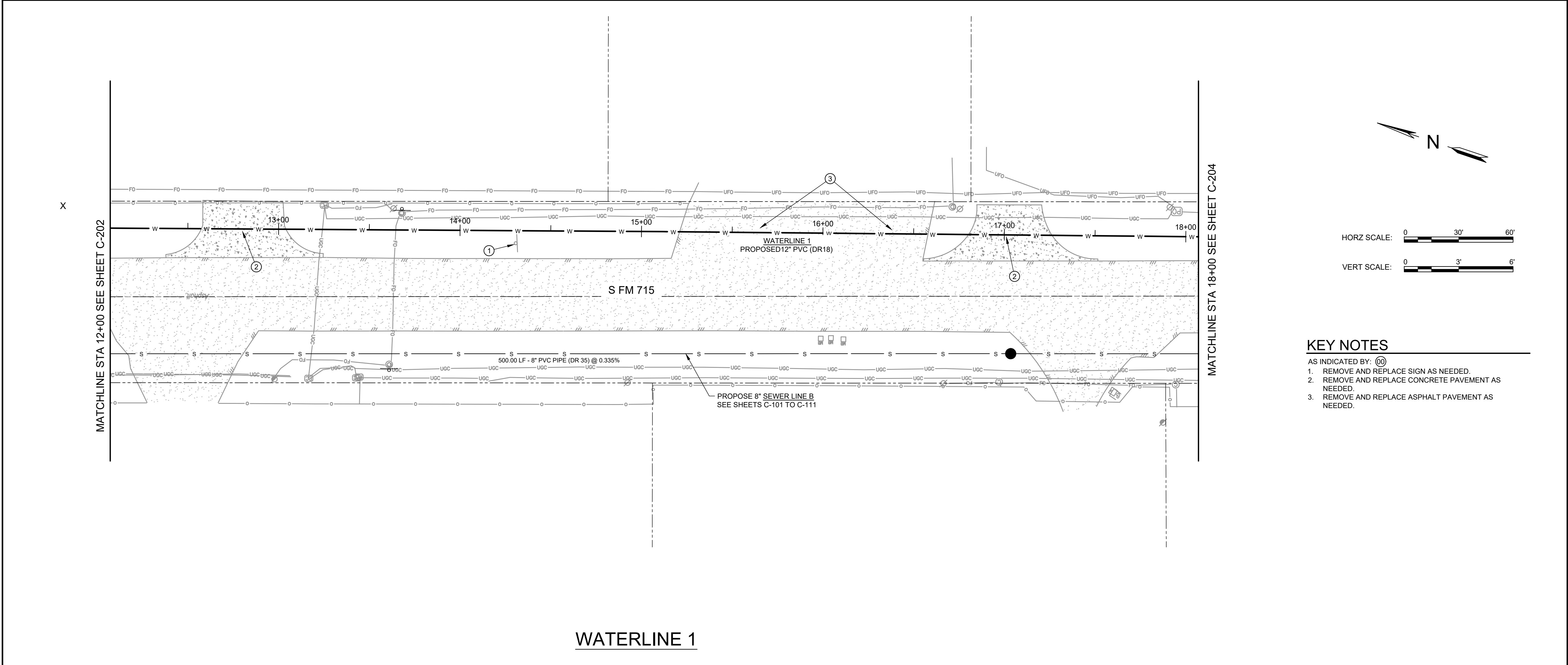
C-202

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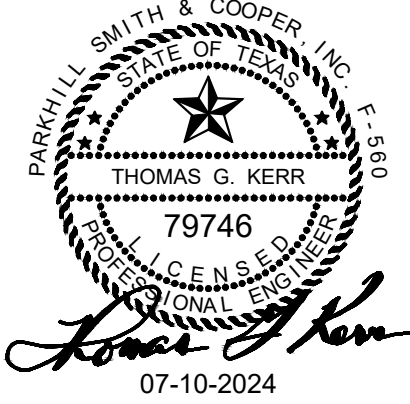


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4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

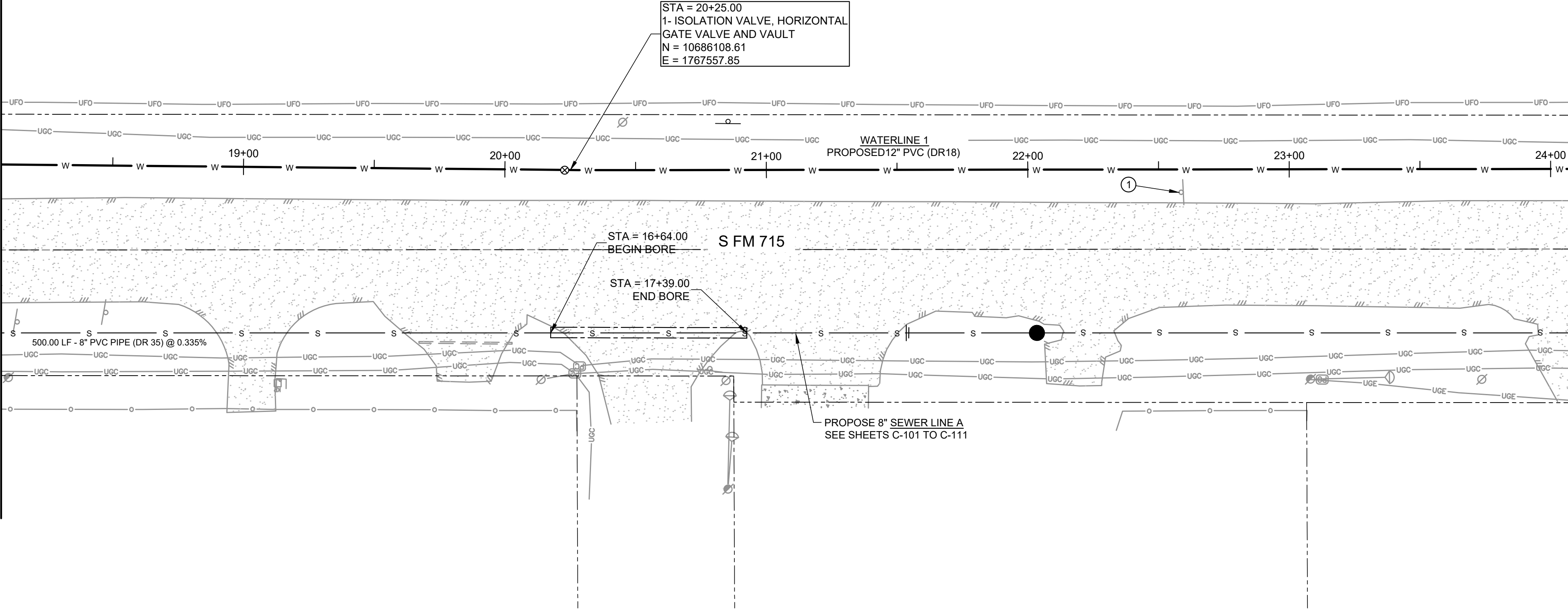
DATE DESCRIPTION

Waterline 1
Plan and Profile
Sta 12+00 To
Sta 18+00

C-203

A:\2023\41563.23\03_DSGN\01_DWG\050_CIVIL\0204-1563.DWG, 4/18/2024 2:56:53 PM, jvasquez

MATCHLINE STA 18+00 SEE SHEET C-203



MATCHLINE STA 24+00 SEE SHEET C-205



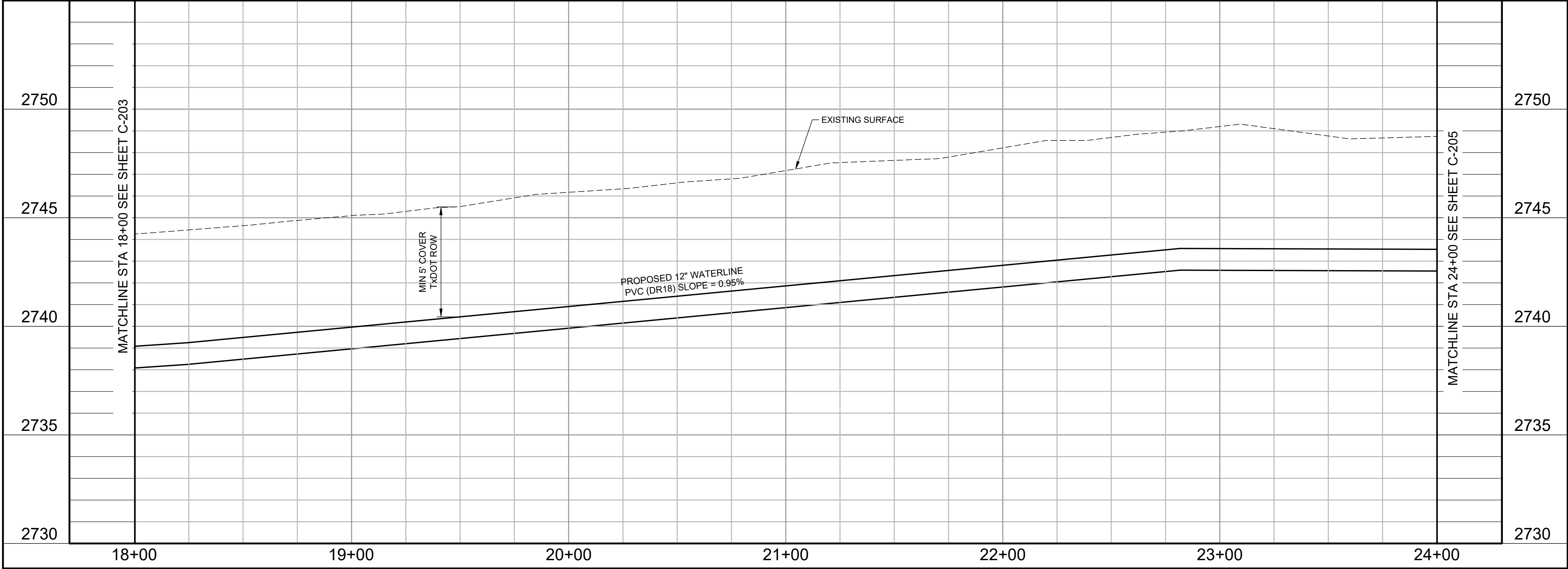
HORZ SCALE: 0 30' 60'

VERT SCALE: 0 3' 6'

KEY NOTES

- AS INDICATED BY: (C)
1. REMOVE AND REPLACE SIGN AS NEEDED.

WATERLINE 1



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PROJECT NO.
41563.23

4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

DATE DESCRIPTION

Waterline 1
Plan and Profile
Sta 18+00 To
Sta 24+00

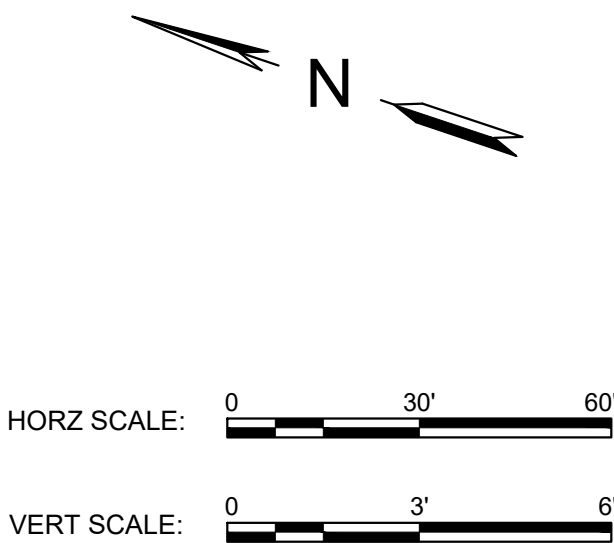
C-204



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4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

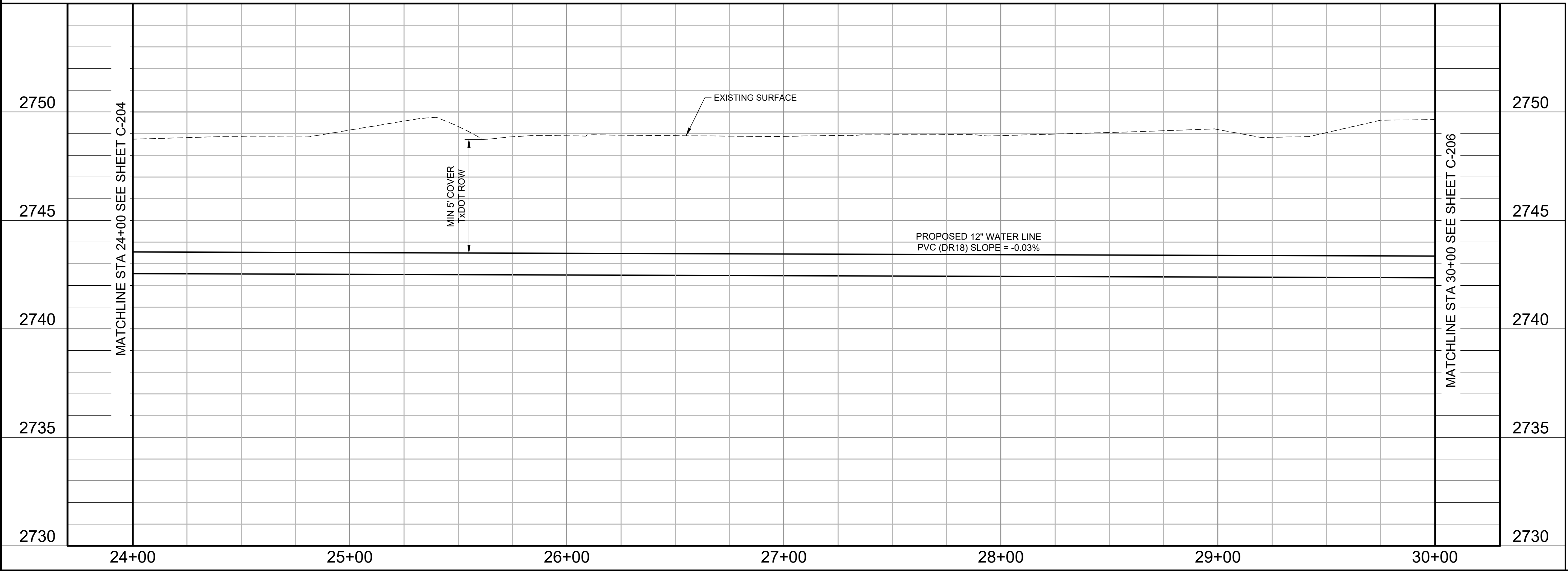
C-205



AS INDICATED BY: (00)

1. REMOVE AND REPLACE GRAVEL PAVEMENT AS NEEDED.

WATERLINE 1





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4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

C-206



VERT SCALE:

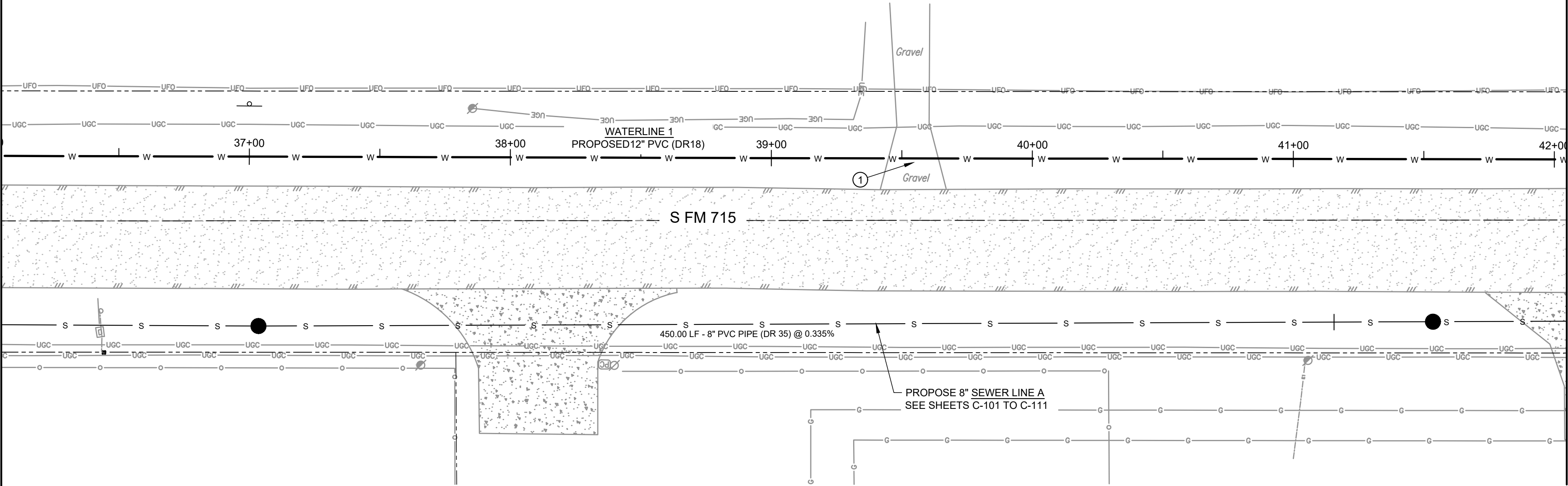
AS INDICATED BY: (00)

1. REMOVE AND REPLACE SIGN AS NEEDED.
2. CONTRACTOR SHALL RETURN EXISTING GROUND TO EXISTING CONDITION SO NOT TO CHANGE OR OBSTRUCT EXISTING DRAINAGE.



A:\2023\41563.23\03_DSGN\01_DWG\050_CIVIL\0207-41563.DWG, 6/19/2024, 2:23:24 PM, jvasquez

MATCHLINE STA 36+00 SEE SHEET C-206



MATCHLINE STA 42+00 SEE SHEET C-208



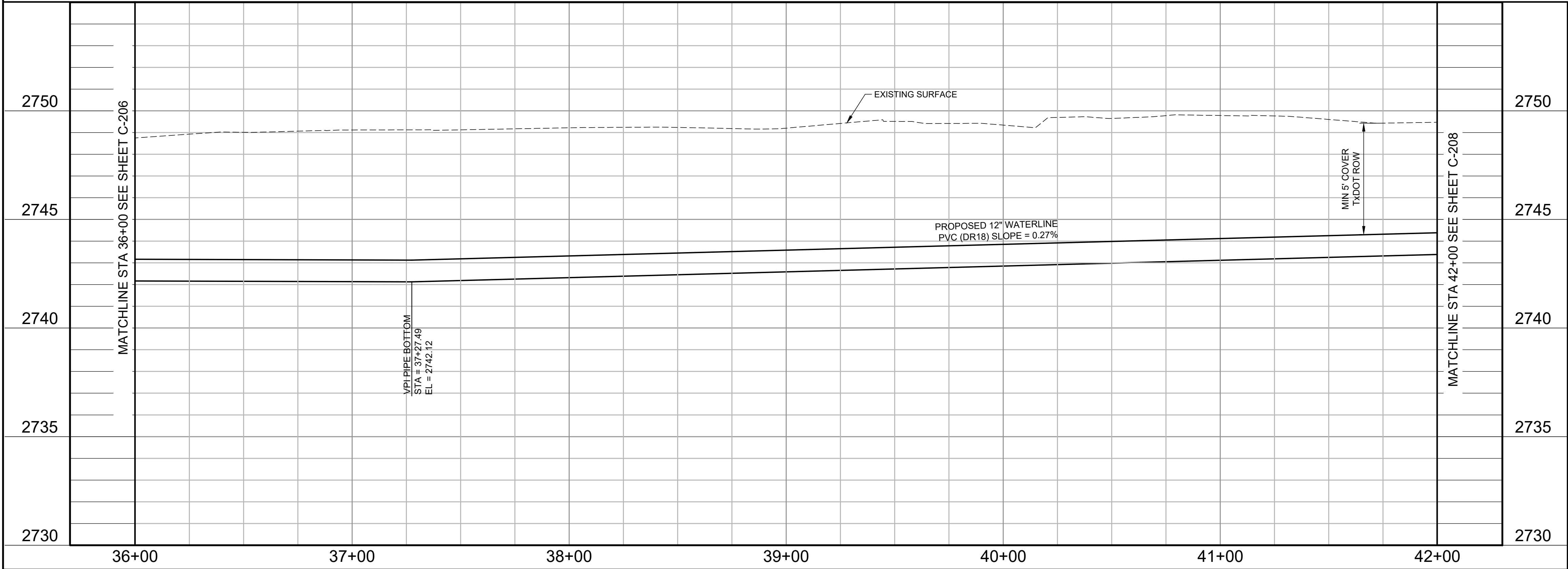
HORZ SCALE: 0 30' 60'

VERT SCALE: 0 3' 6'

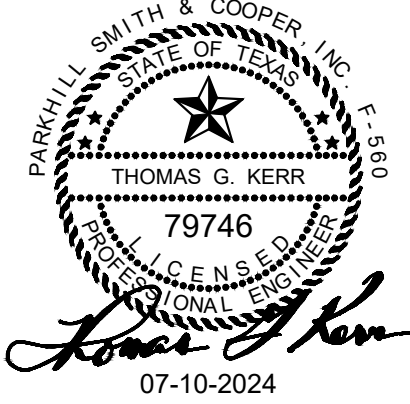
KEY NOTES

- AS INDICATED BY: (10)
1. REMOVE AND REPLACE GRAVEL PAVEMENT AS NEEDED.

WATERLINE 1



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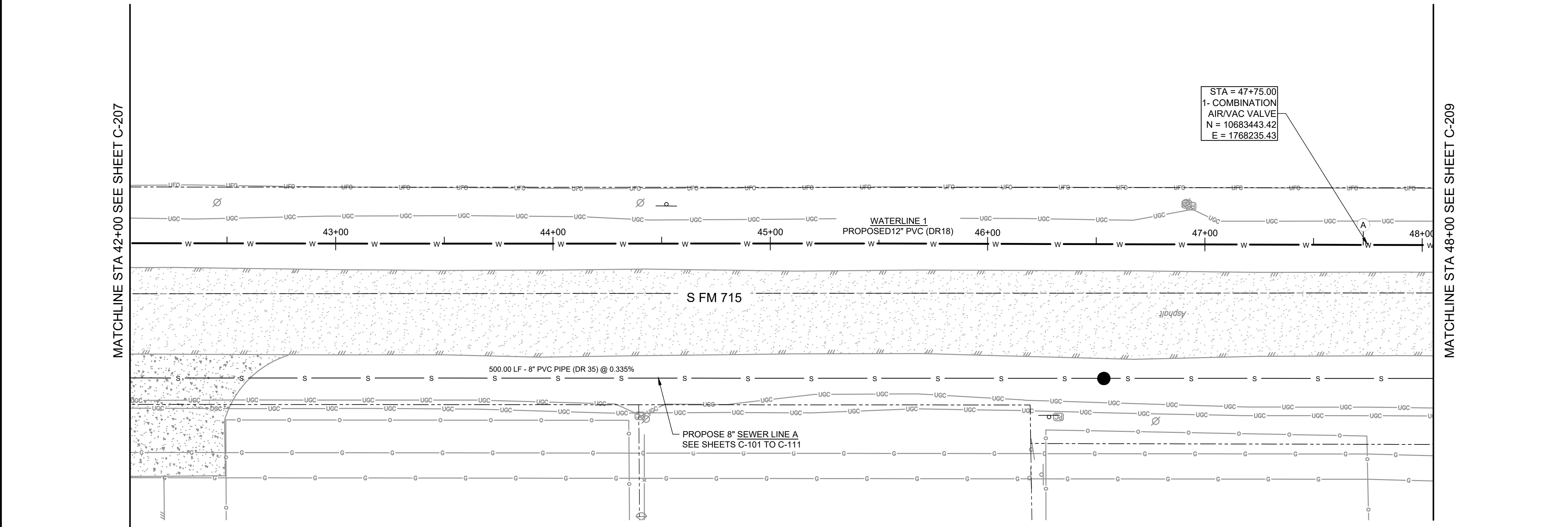
4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

DATE DESCRIPTION

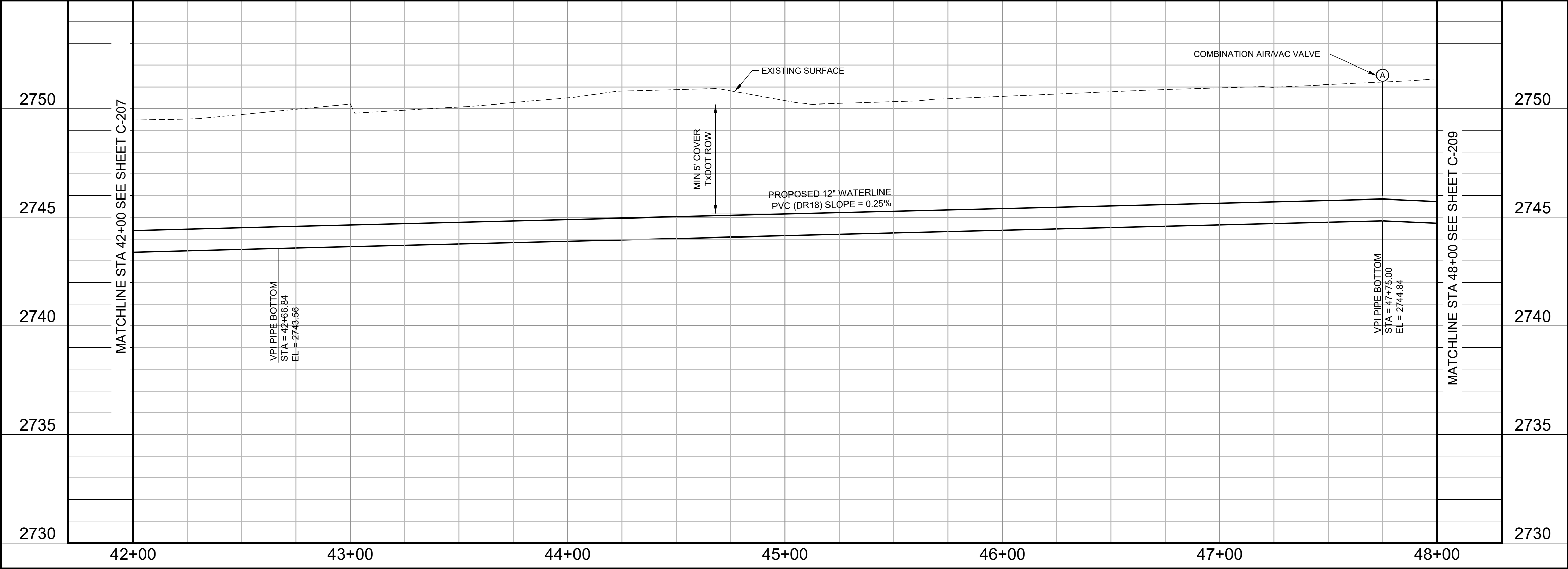
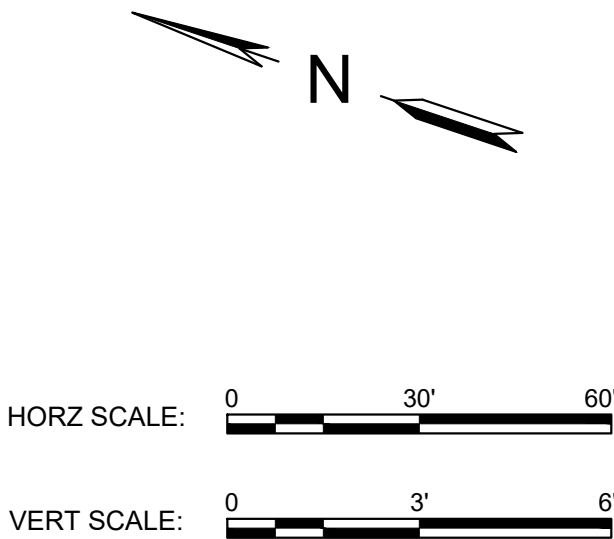
Waterline 1
Plan and Profile
Sta 36+00 To
Sta 42+00

C-207

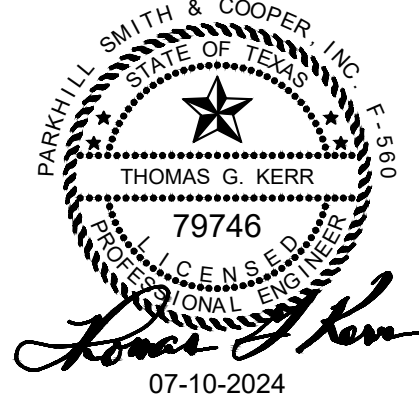
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WATERLINE 1



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PROJECT NO.

41563.23

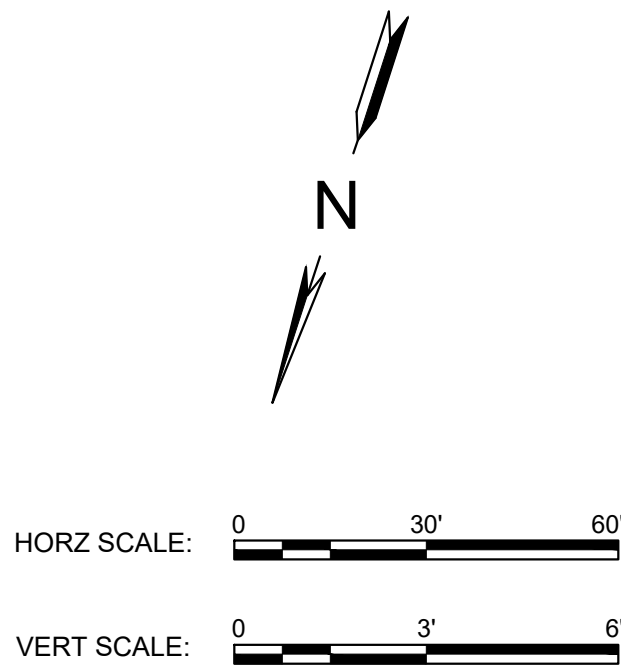
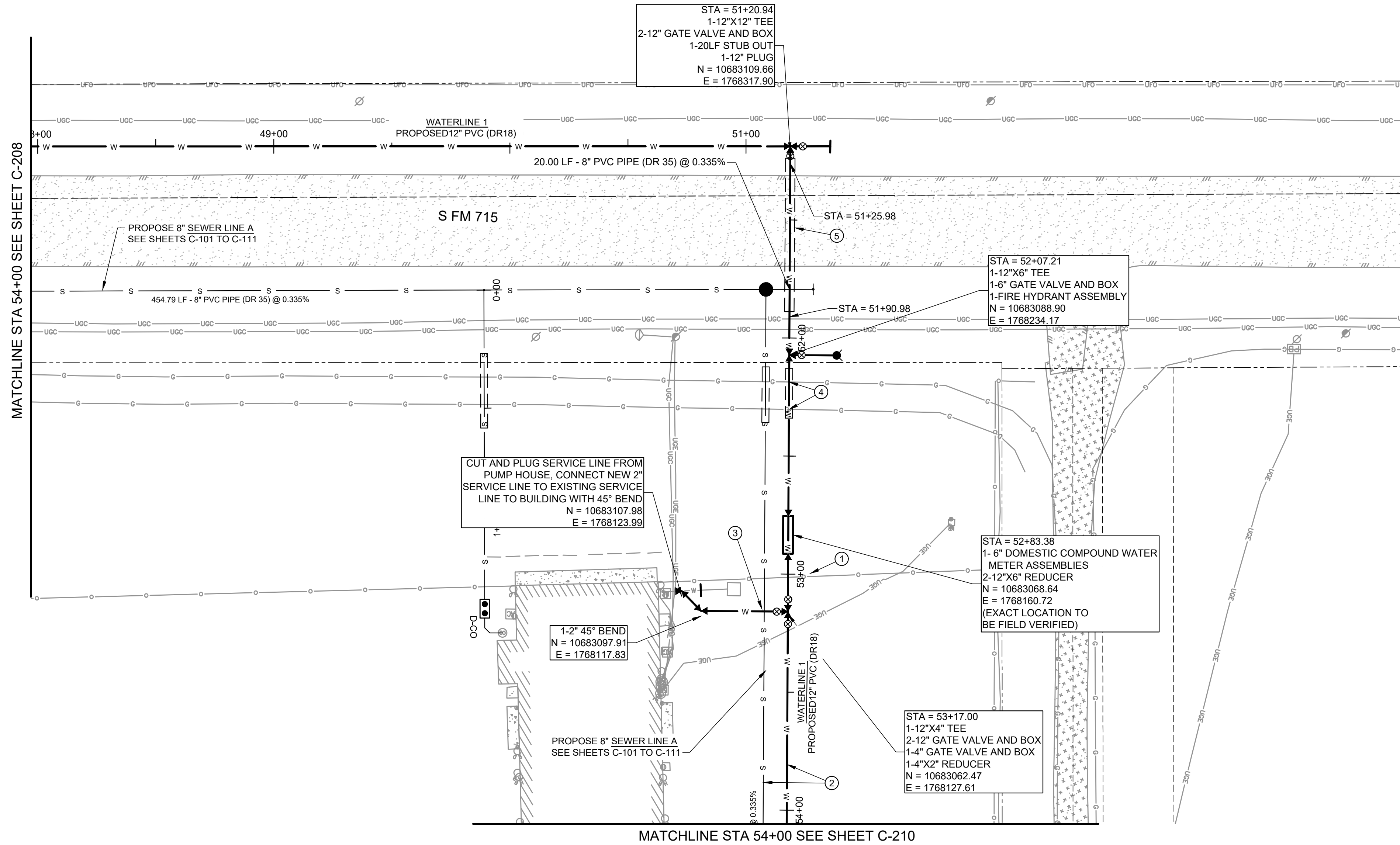
4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

DATE DESCRIPTION

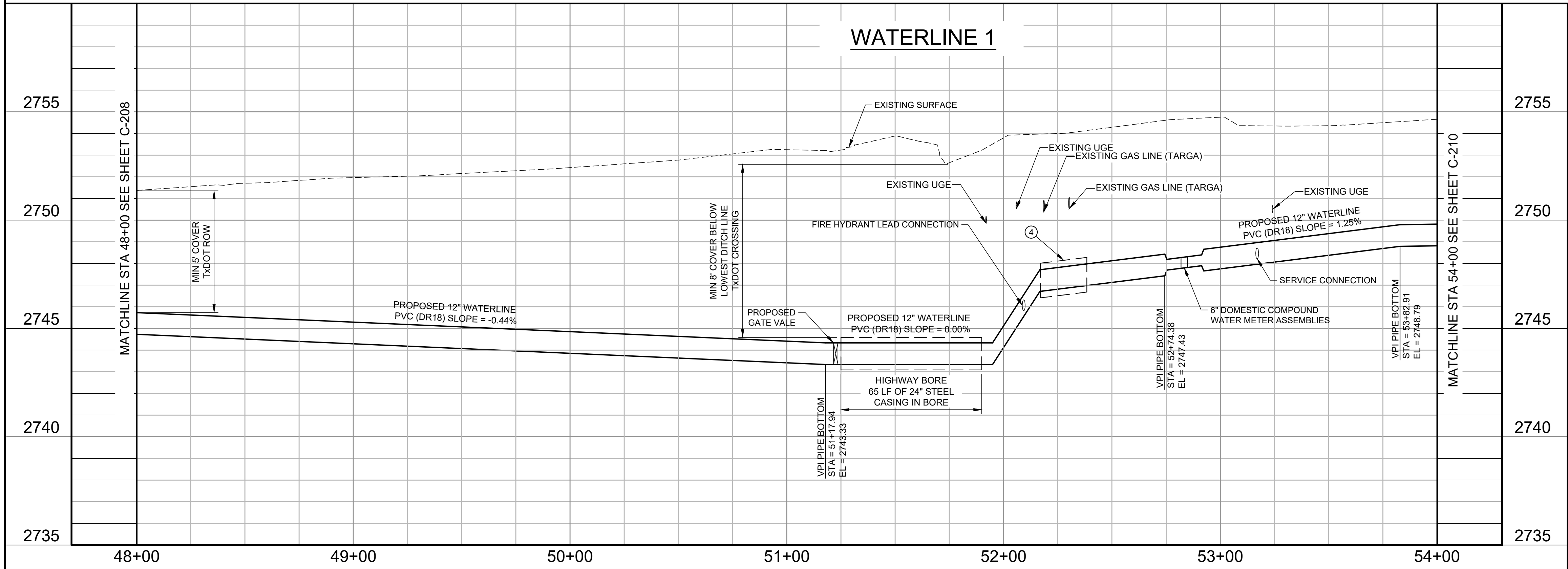
Waterline 1
Plan and Profile
Sta 42+00 To
Sta 48+00

C-208

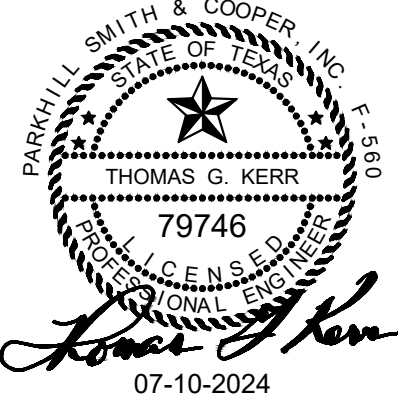
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- KEY NOTES**
- AS INDICATED BY: (C)
- REMOVE AND REPLACE SECURITY FENCE AS NEEDED.
 - PARALLEL WATER WASTEWATER SPACING SEE DETAIL 306 SHEET C-501.
 - SANITARY SEWER CROSSING. SEE DETAIL 309 SHEET C-501.
 - WATER CROSSING GAS OR PETROLEUM LINE, SEE DETAIL 308 SHEET C-501.
 - HIGHWAY BORE 65 LF OF 24" STEEL CASING (0.375T).



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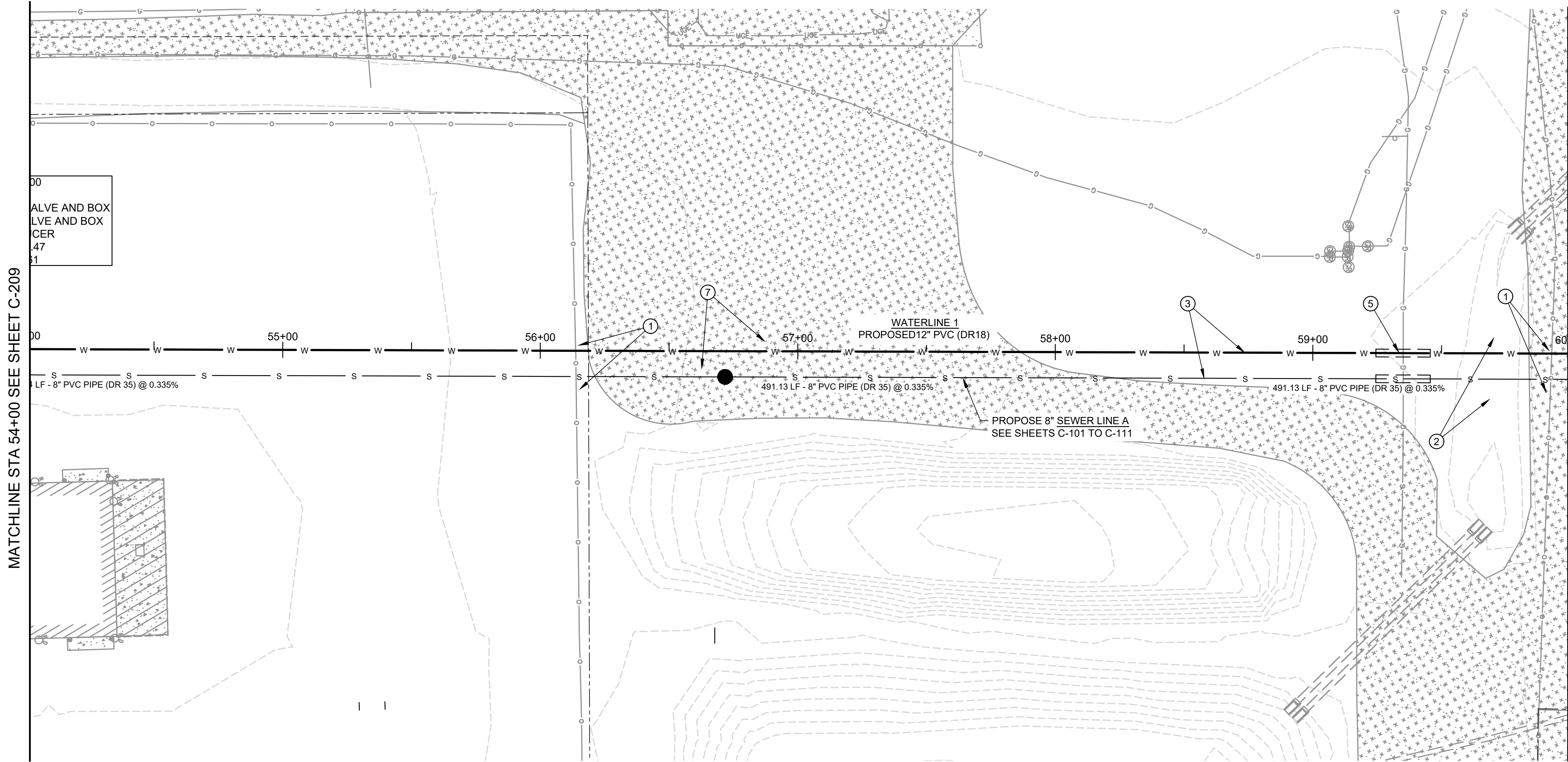
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3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

DATE DESCRIPTION

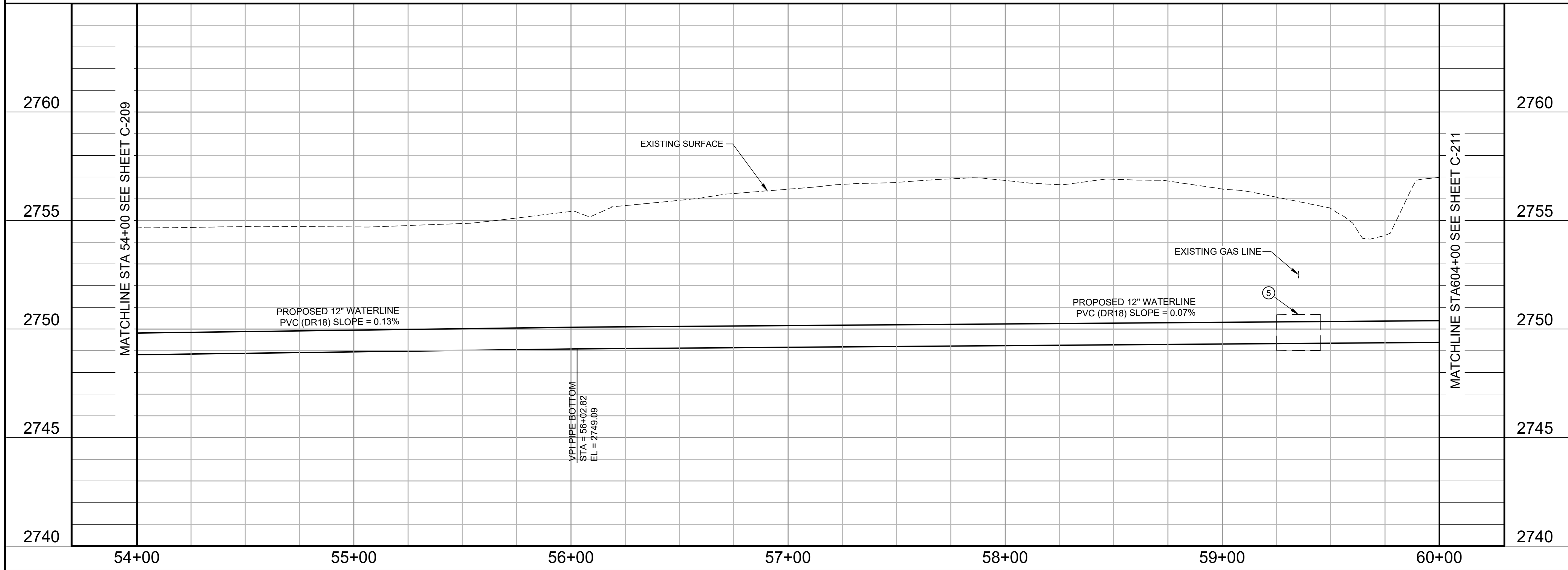
**Waterline 1
Plan and Profile
Sta 48+00 To
Sta 54+00**

C-209

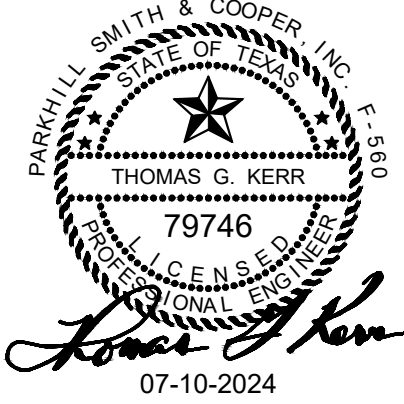
A:\2023\41563.23\03_DSGN\01_DWG\050_CIVIL\02-04-1563.DWG, 6/19/2024 2:45:59 PM, jvasquez



WATERLINE 1



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PROJECT NO.

41563.23

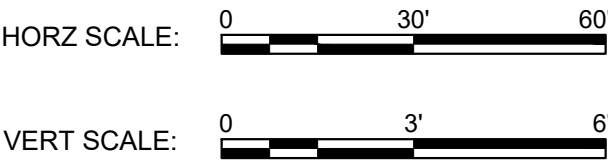
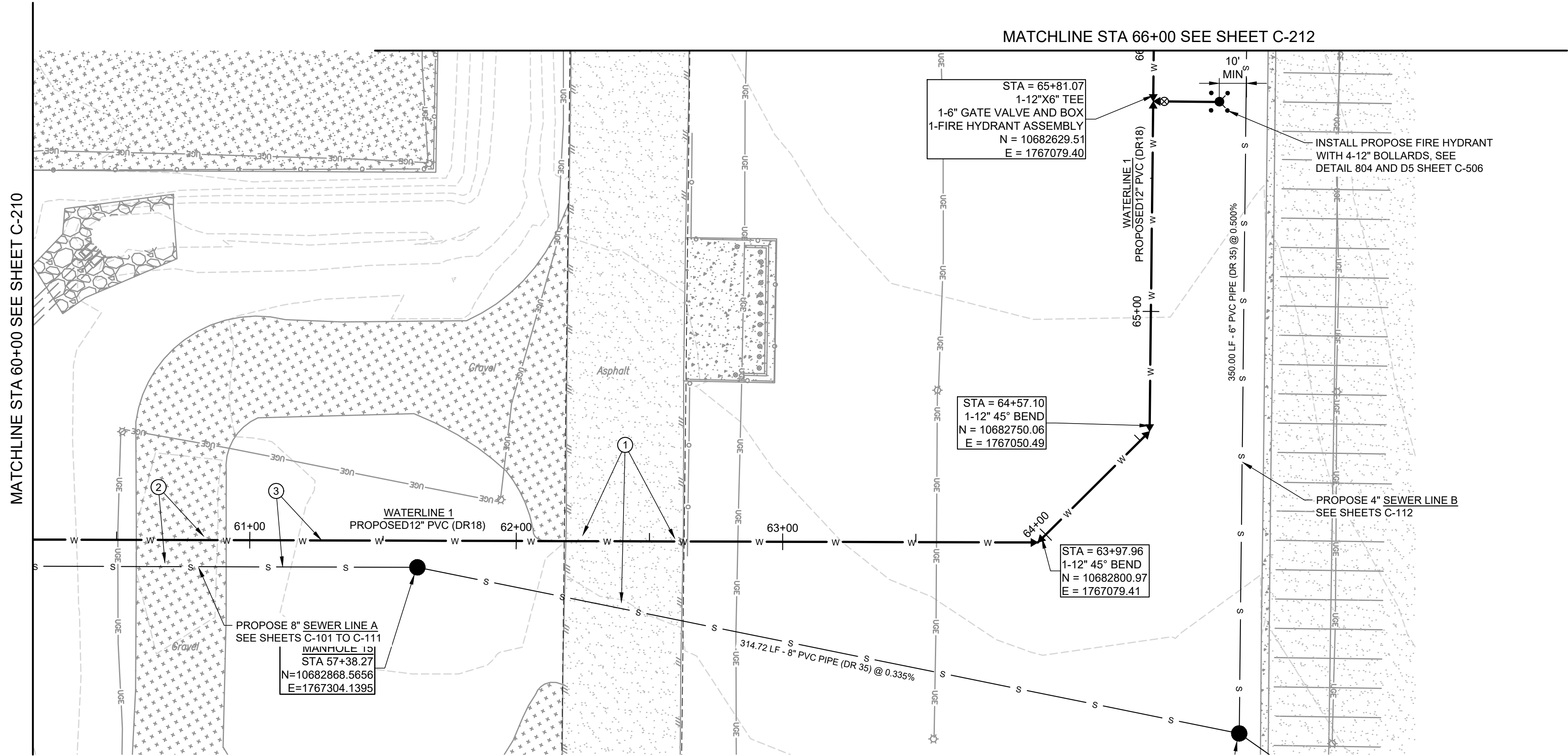
4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

DATE DESCRIPTION

Waterline 1
Plan and Profile
Sta 54+00 To
Sta 60+00

C-210

A:\2023\41563.23\03_DSGN\01_DWG\050_CIVIL\01-DWG-6/4/2024 6:50:34 AM.jvasquez



KEY NOTES

- AS INDICATED BY: (10)
1. REMOVE AND REPLACE ASPHALT PAVEMENT AS NEEDED.
 2. REMOVE AND REPLACE GRAVEL PAVEMENT AS NEEDED.
 3. PARALLEL WATER WASTEWATER SPACING SEE DETAIL 306 SHEET C-501.

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PROJECT NO.

41563.23

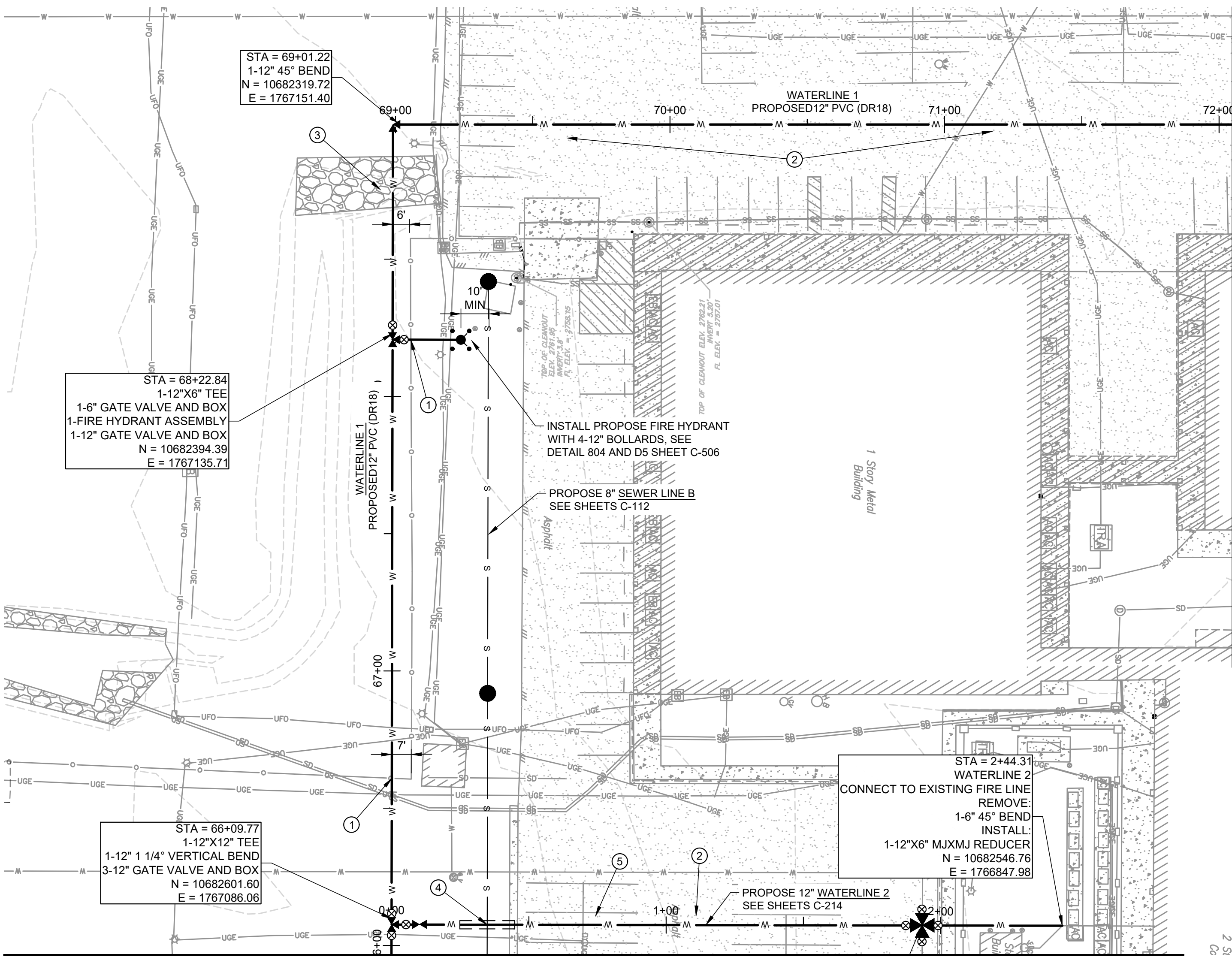
4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

DATE DESCRIPTION

Waterline 1
Plan and Profile
Sta 60+00 To
Sta 66+00

C-211

A:\2023\41563.23\03_DSGN\01_DWG\650_CIVIL\UC-212-41563.DWG, 6/10/2024 10:51:41 AM, jvasquez



MATCHLINE STA 66+00 SEE SHEET C-211

WATERLINE 1

MATCHLINE STA 72+00 SEE SHEET C-213

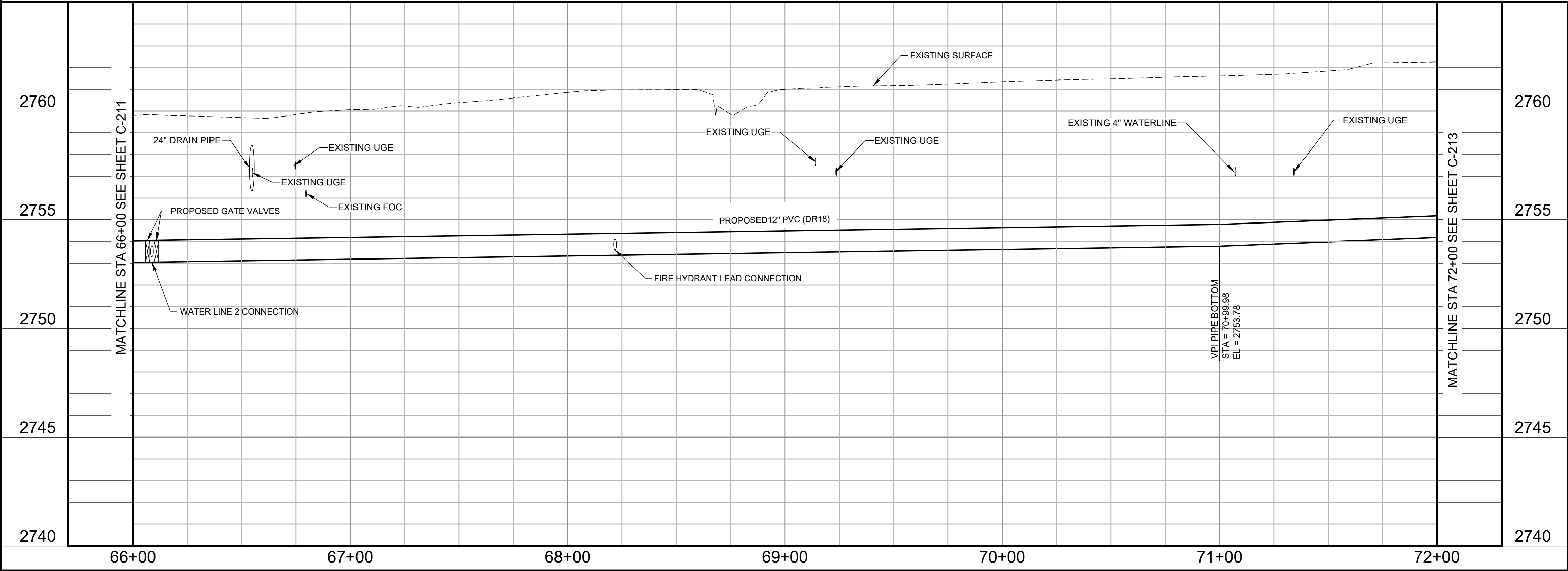


HORZ SCALE: 0 30' 60'

VERT SCALE: 0 3' 6'

KEY NOTES

- AS INDICATED BY: (C)
1. REMOVE AND REPLACE SECURITY FENCE AS NEEDED.
 2. REMOVE AND REPLACE ASPHALT PAVEMENT AS NEEDED.
 3. REMOVE AND REPLACE RIP-RAP AS NEEDED.
 4. SANITARY SEWER CROSSING. SEE DETAIL 307 SHEET C-501.
 5. RE-STRIPE PARKING LOT AS NEEDED.



66+00

67+00

68+00

69+00

70+00

71+00

72+00

2740

2745

2750

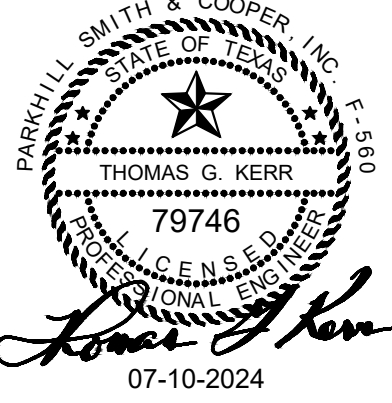
2755

2760

MATCHLINE STA 66+00 SEE SHEET C-211

MATCHLINE STA 72+00 SEE SHEET C-213

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PROJECT NO.

41563.23

4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

DATE DESCRIPTION

Waterline 1
Plan and Profile
Sta 66+00 To
Sta 72+00

C-212



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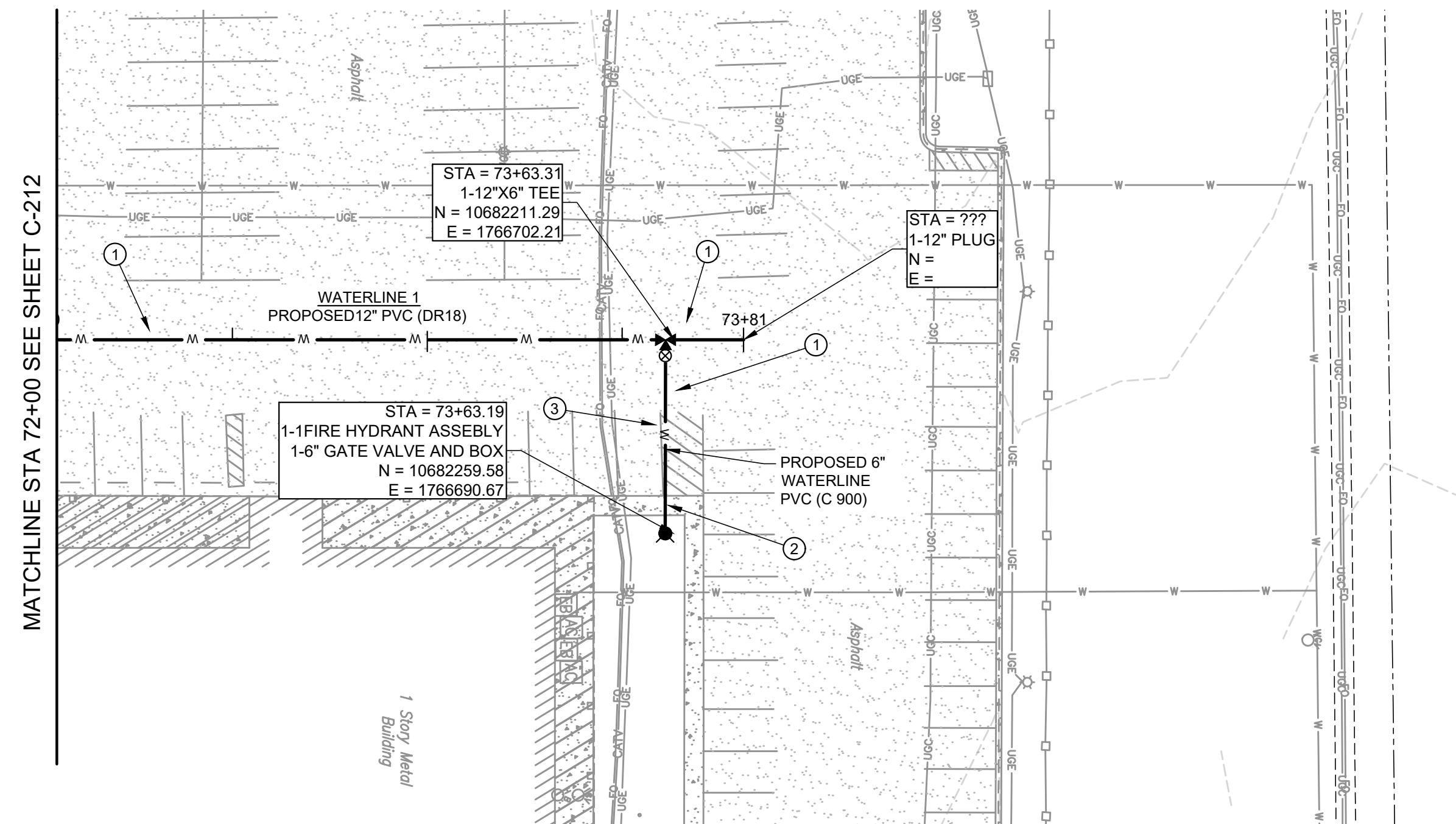
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2	05-08-2024	80% Review
1	04-01-2024	60% City Review

C-213

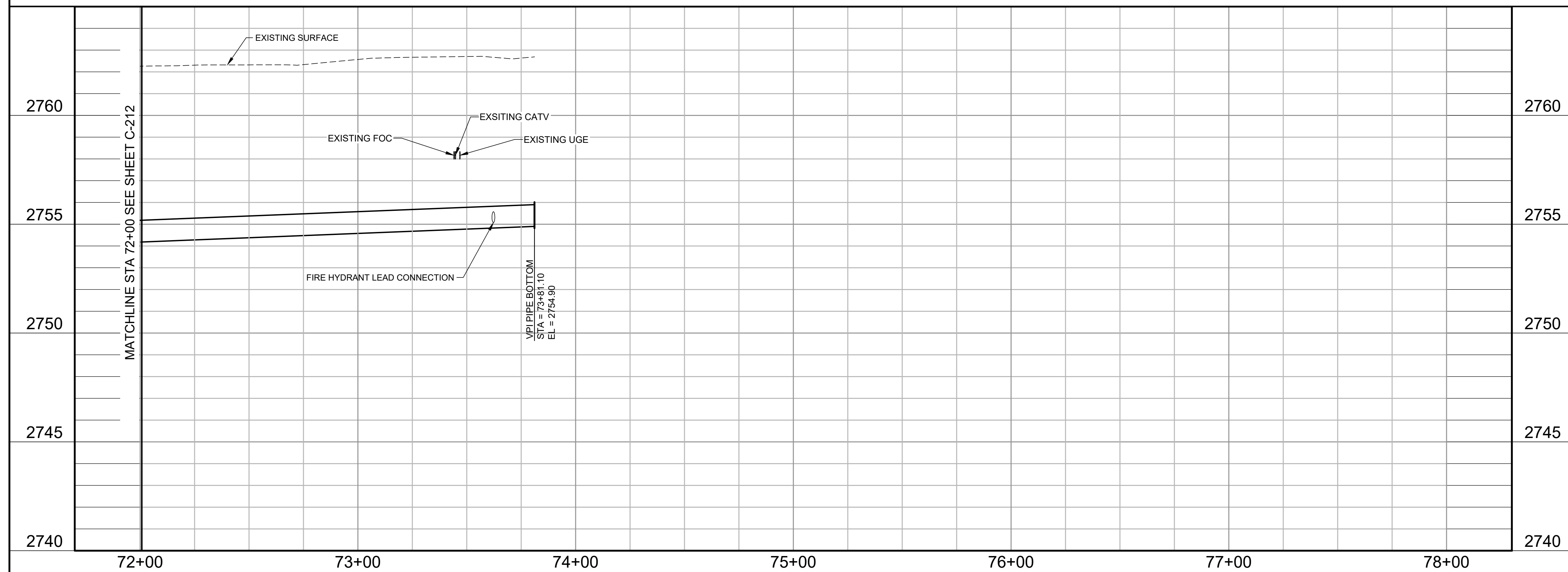


AS INDICATED BY: (00)

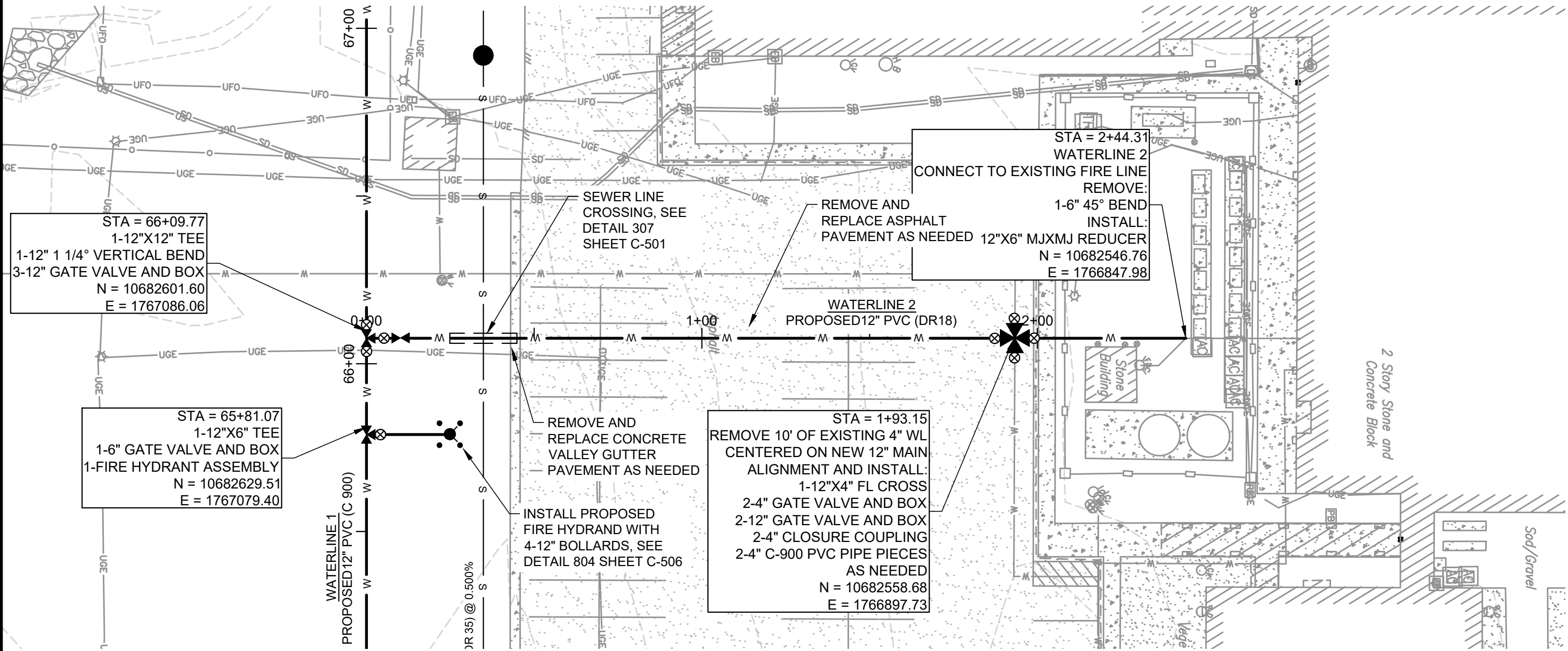
1. REMOVE AND REPLACE ASPHALT PAVEMENT AS NEEDED.
2. REMOVE AND REPLACE CONCRETE SIDEWALK AS NEEDED.
3. RESTRIPE PARKING LOT AS NEEDED.



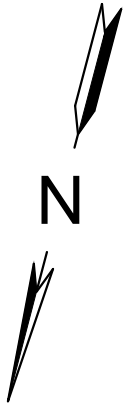
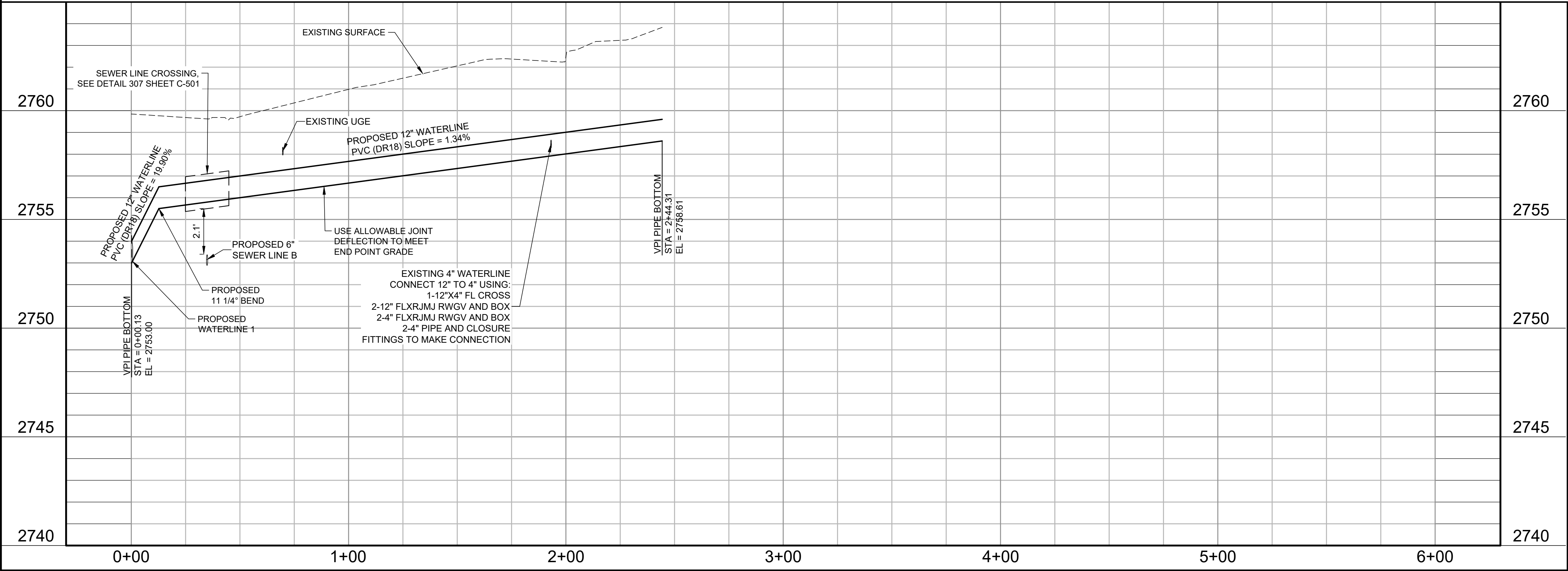
WATERLINE 1



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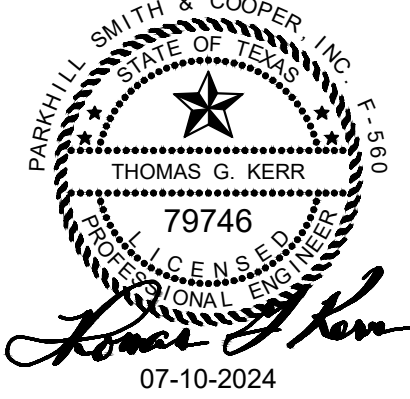
WATERLINE 2



HORZ SCALE: 0 30' 60'

VERT SCALE: 0 3' 6'

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PROJECT NO.

41563.23

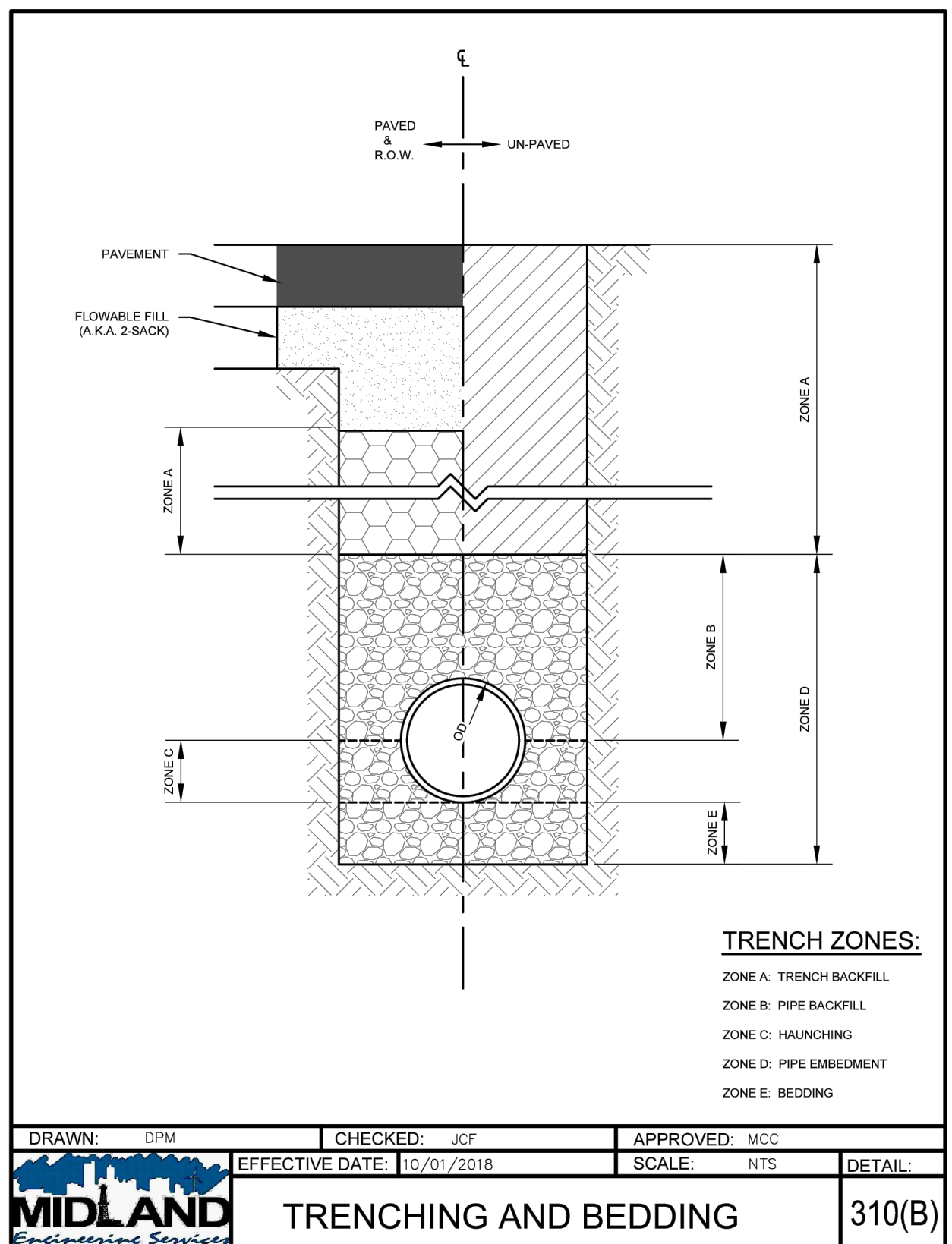
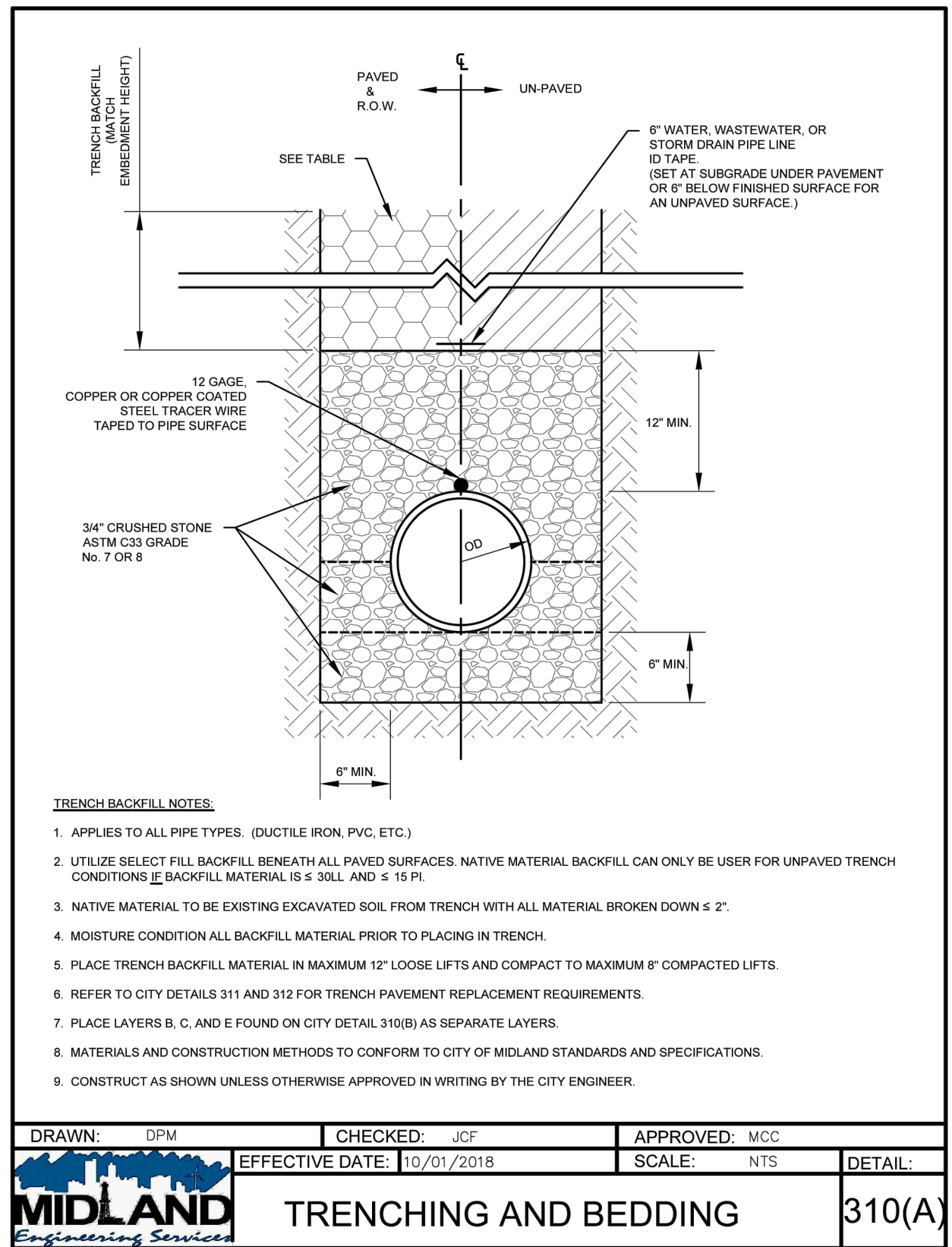
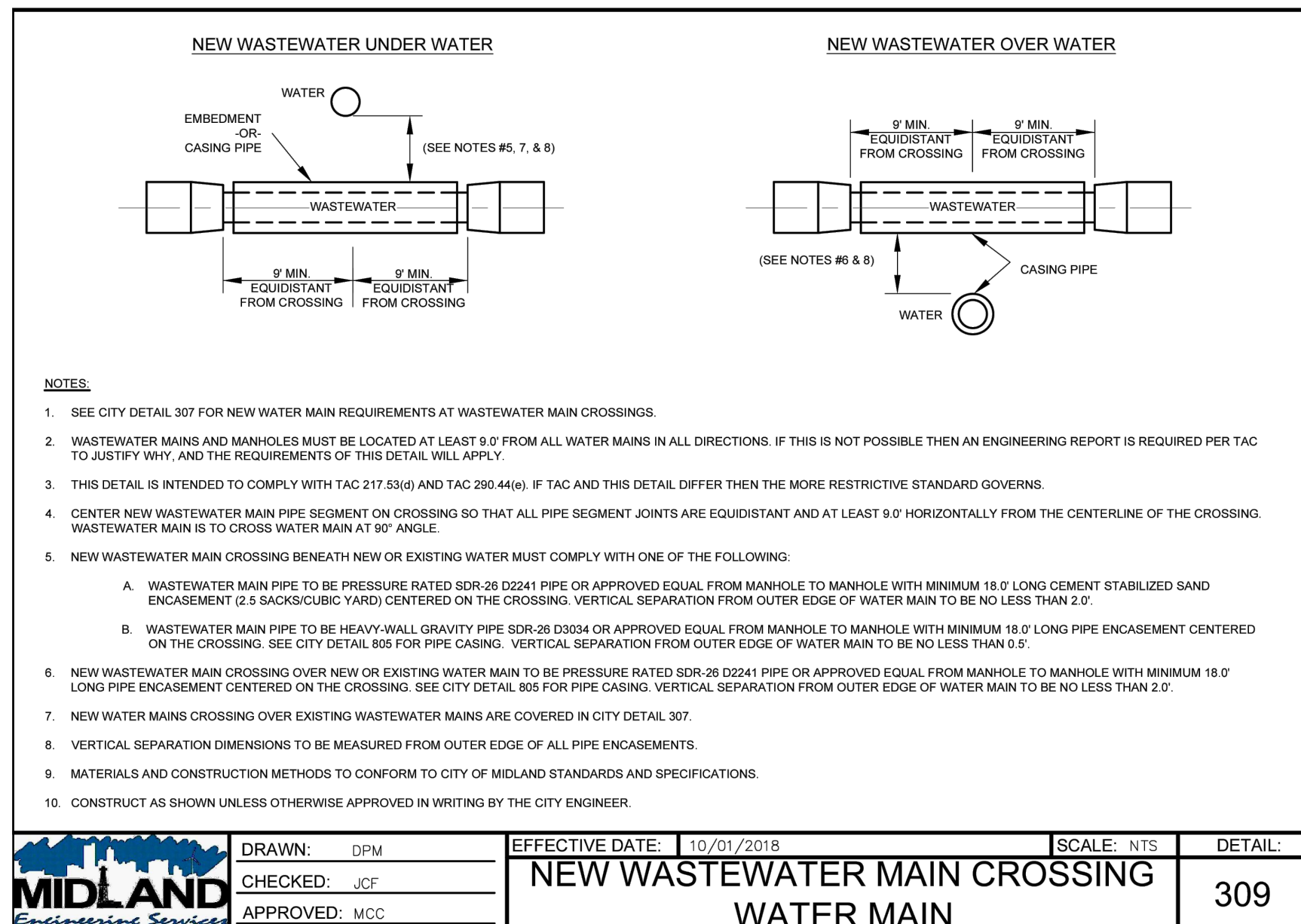
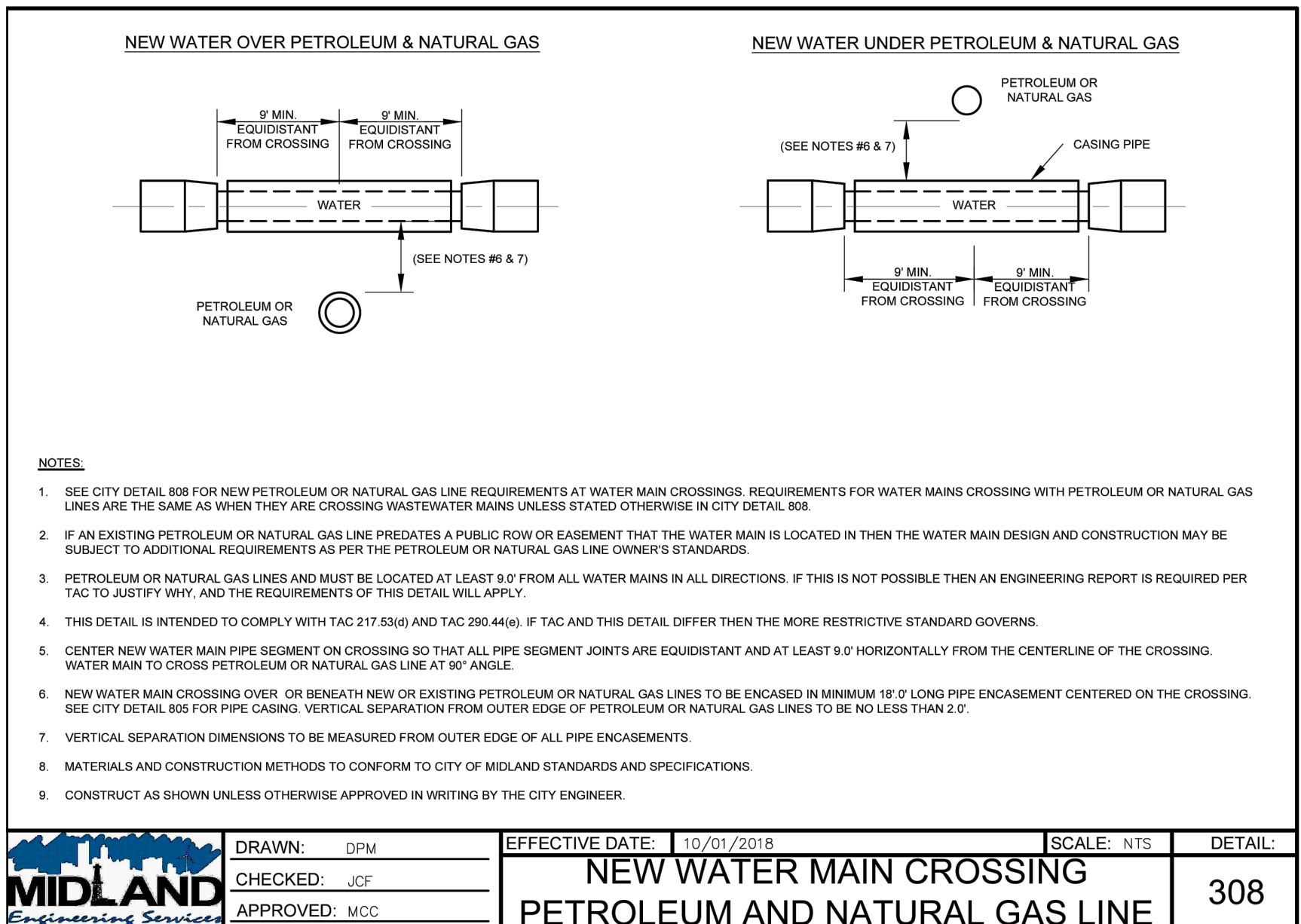
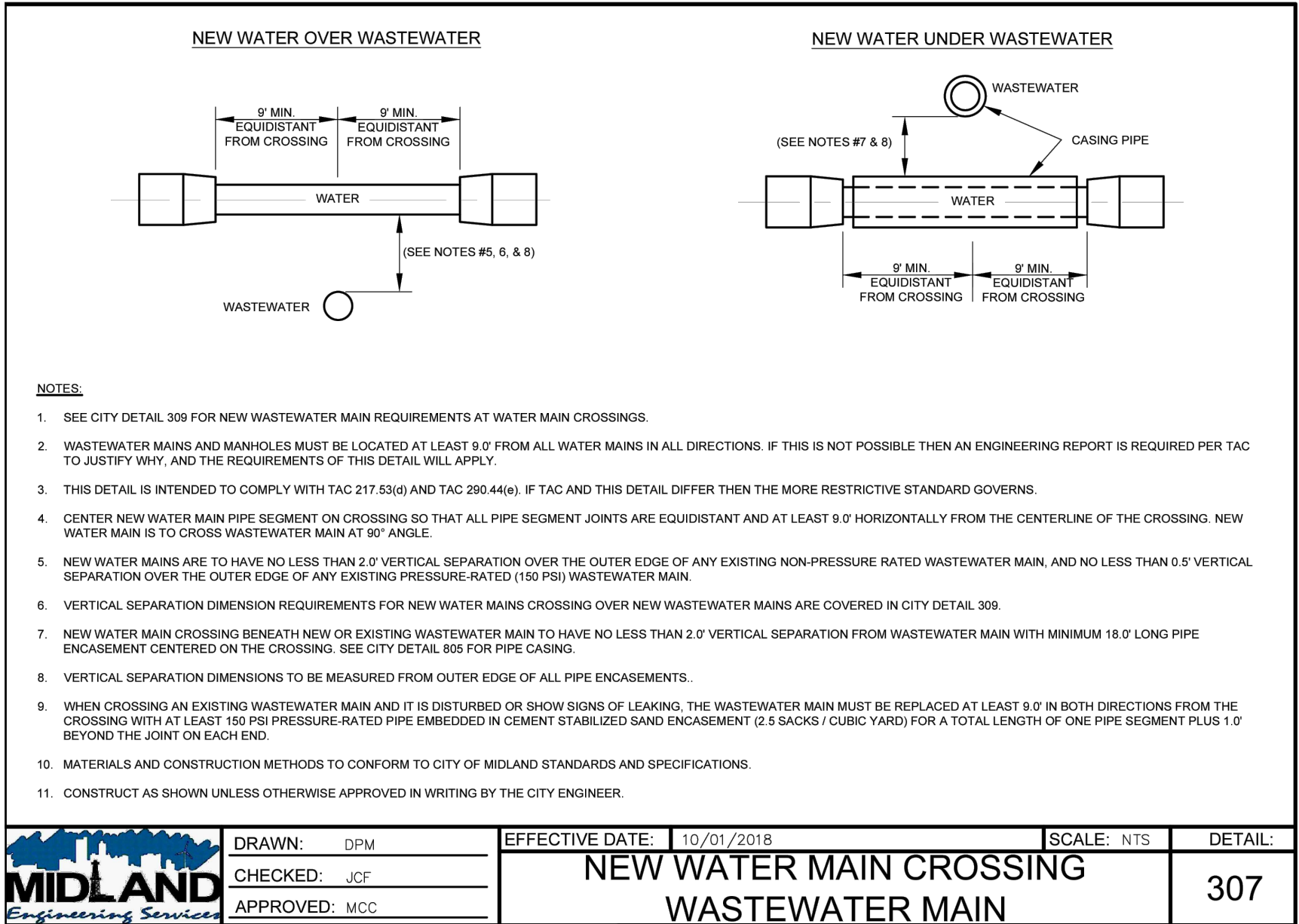
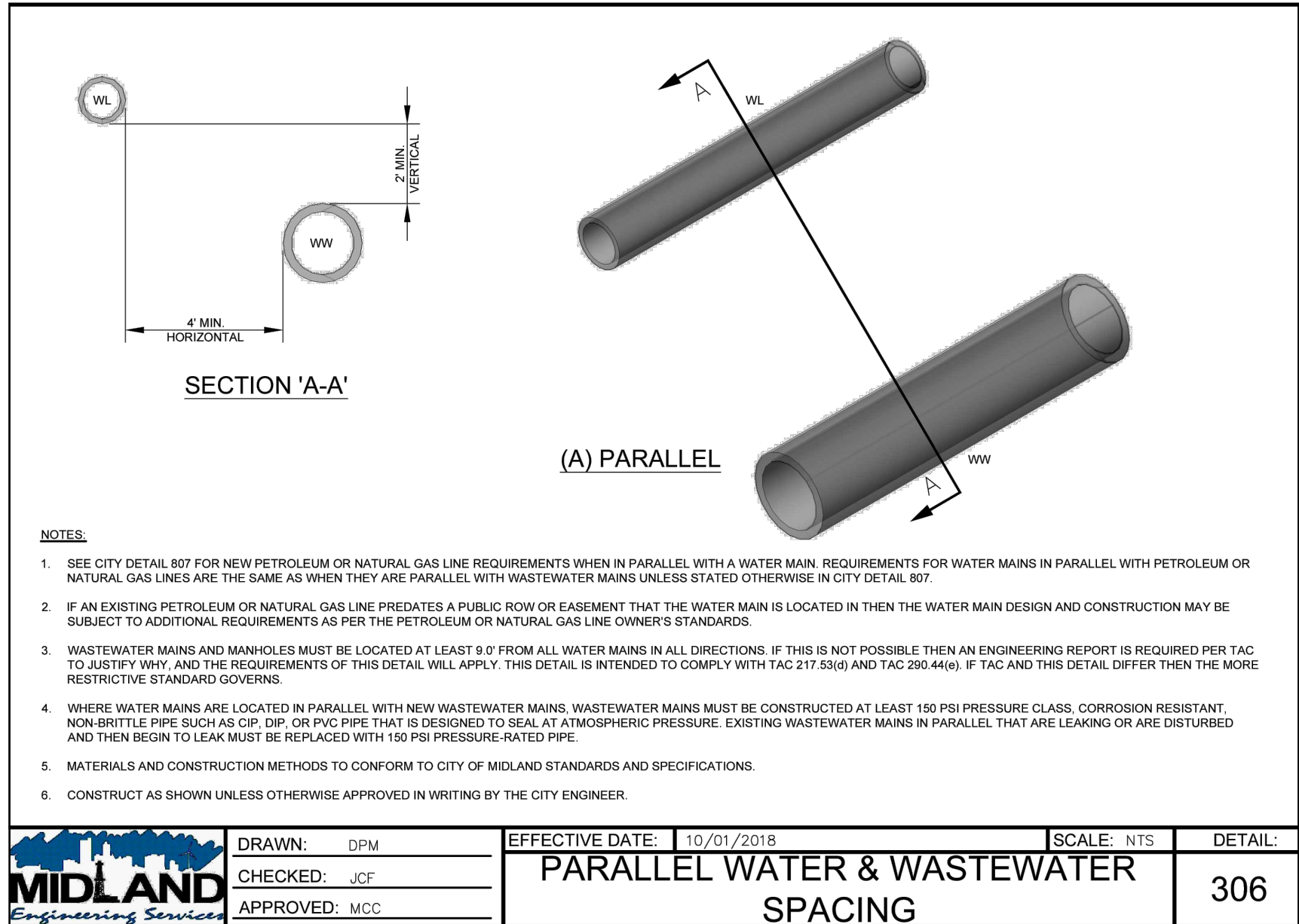
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3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

DATE DESCRIPTION

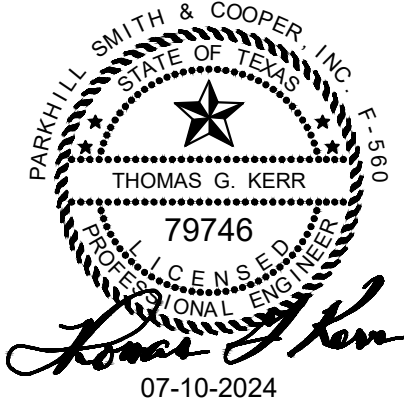
Waterline 2
Plan and Profile
Sta 0+00 To
Sta 2+44.31

C-214

A:\2023\41563.23\03_DSGN01_DWG\650_CIVIL\C-501-41563.DWG, 6/19/2024 3:34:31 PM, jvesque2



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41563.23

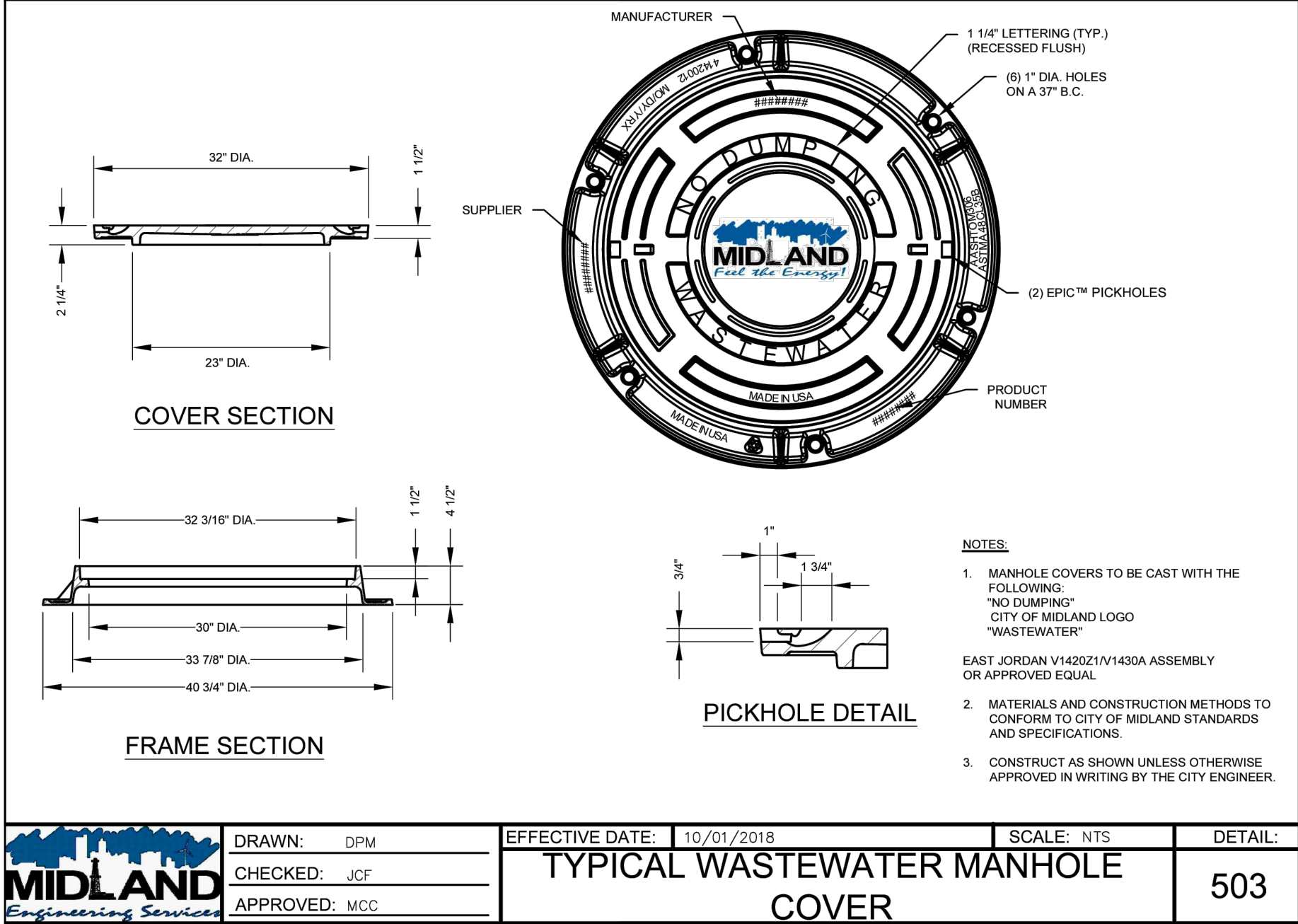
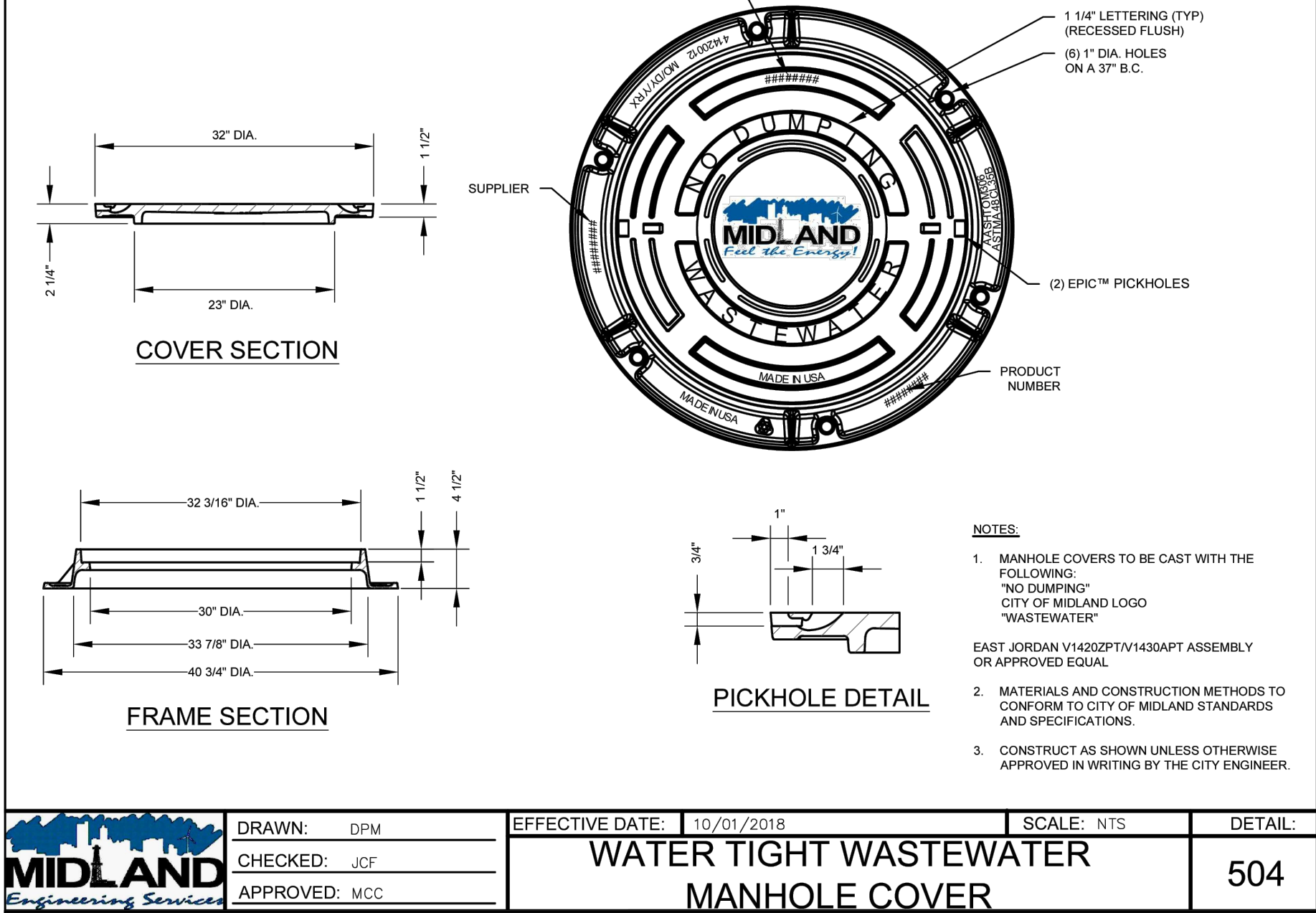
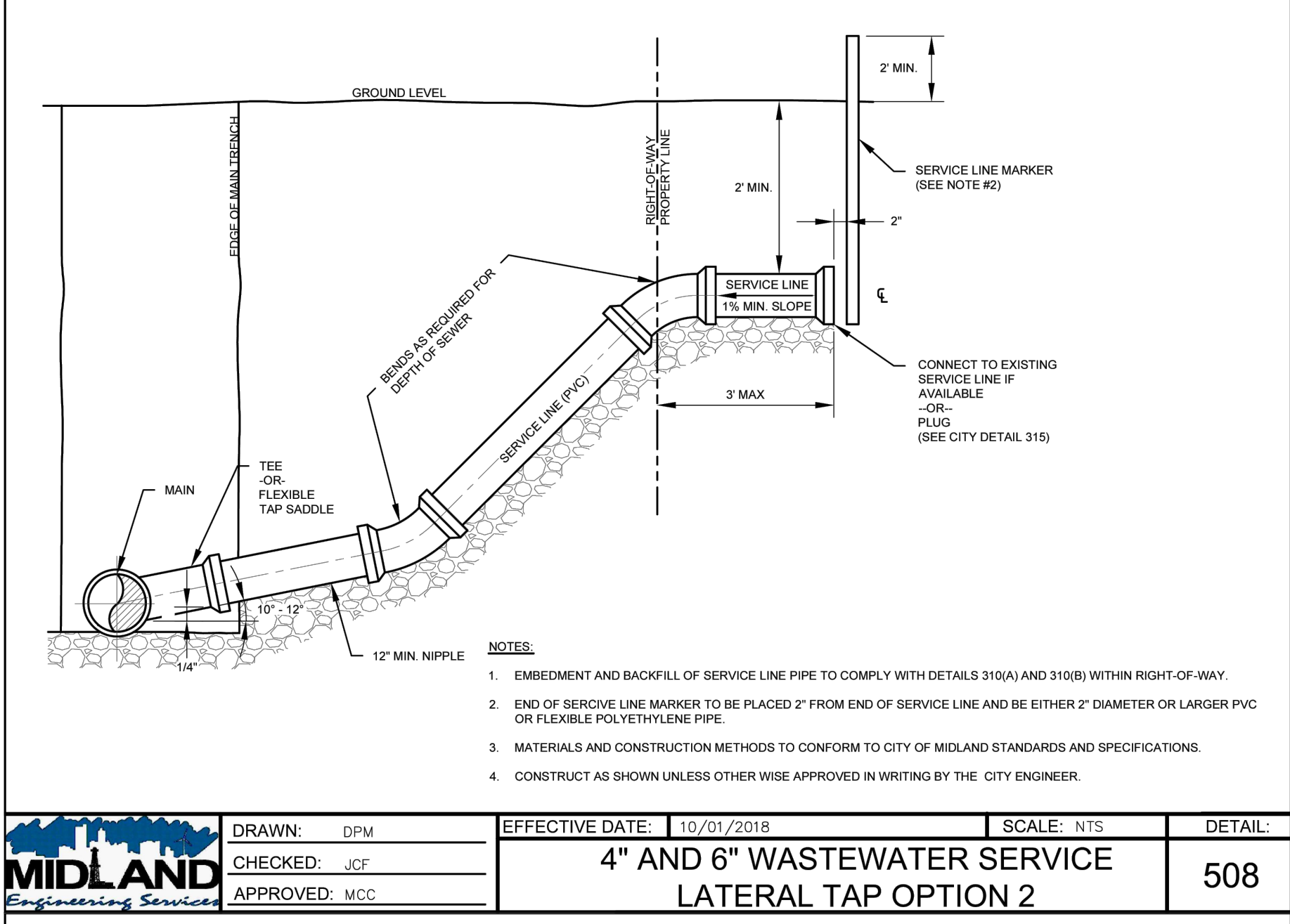
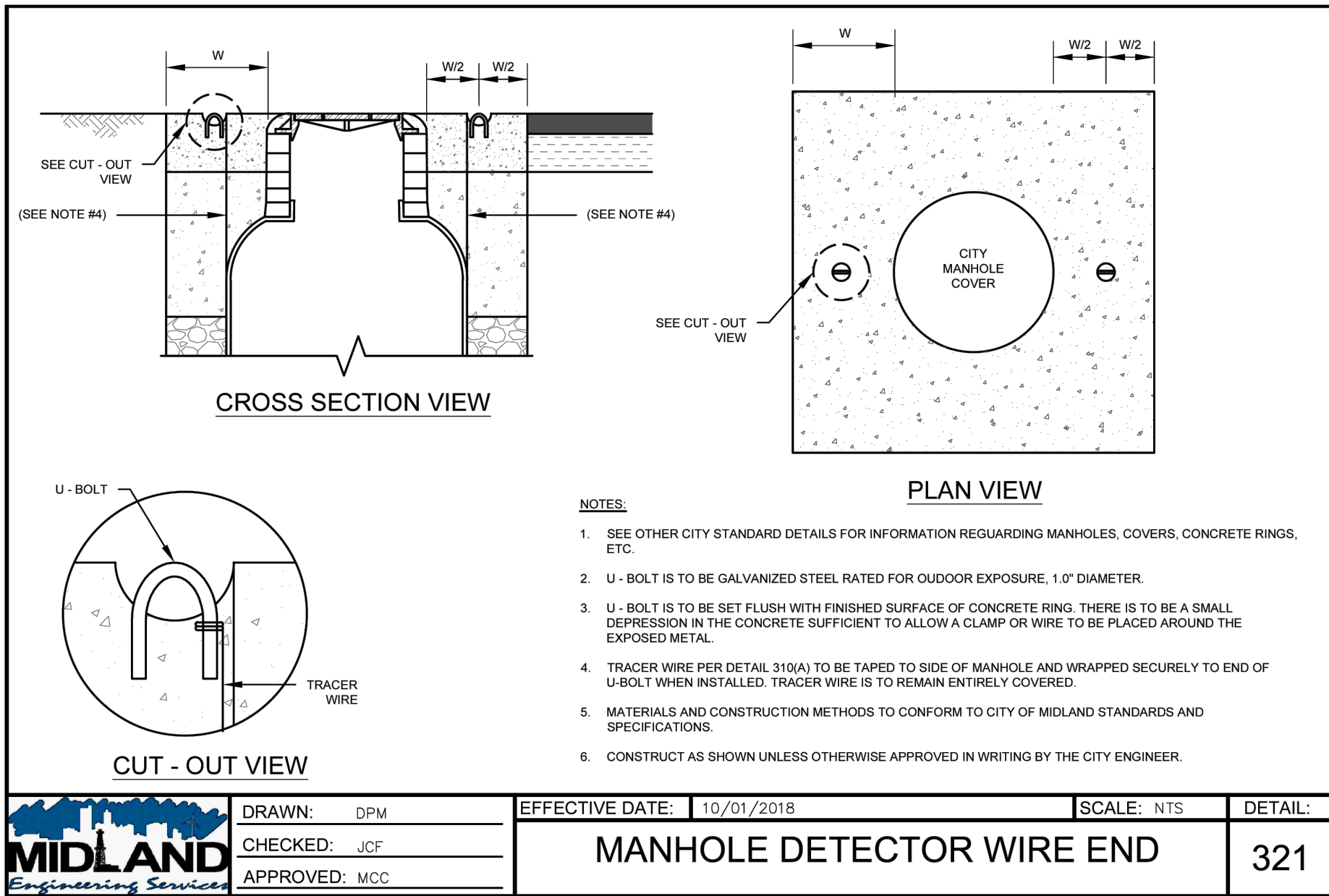
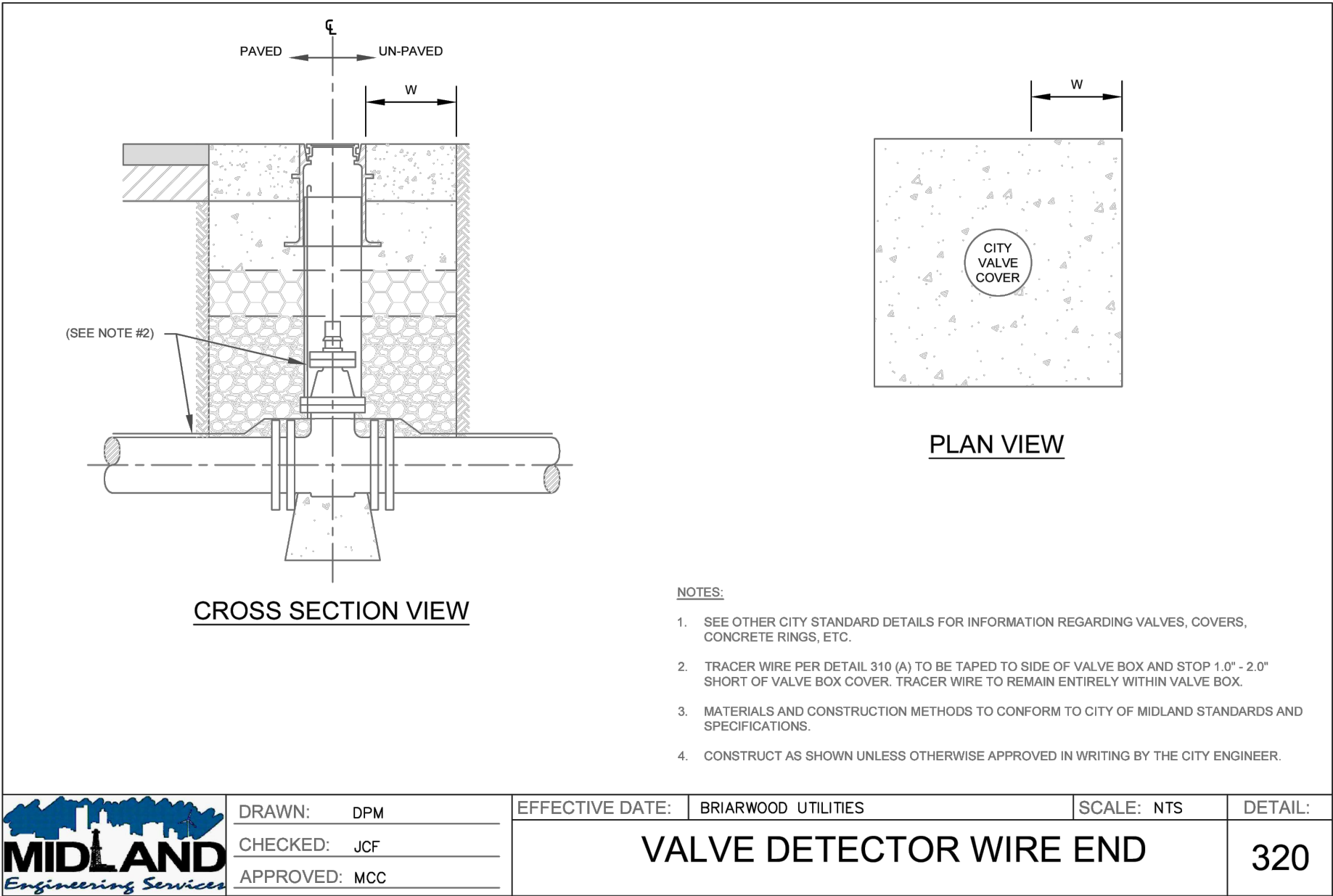
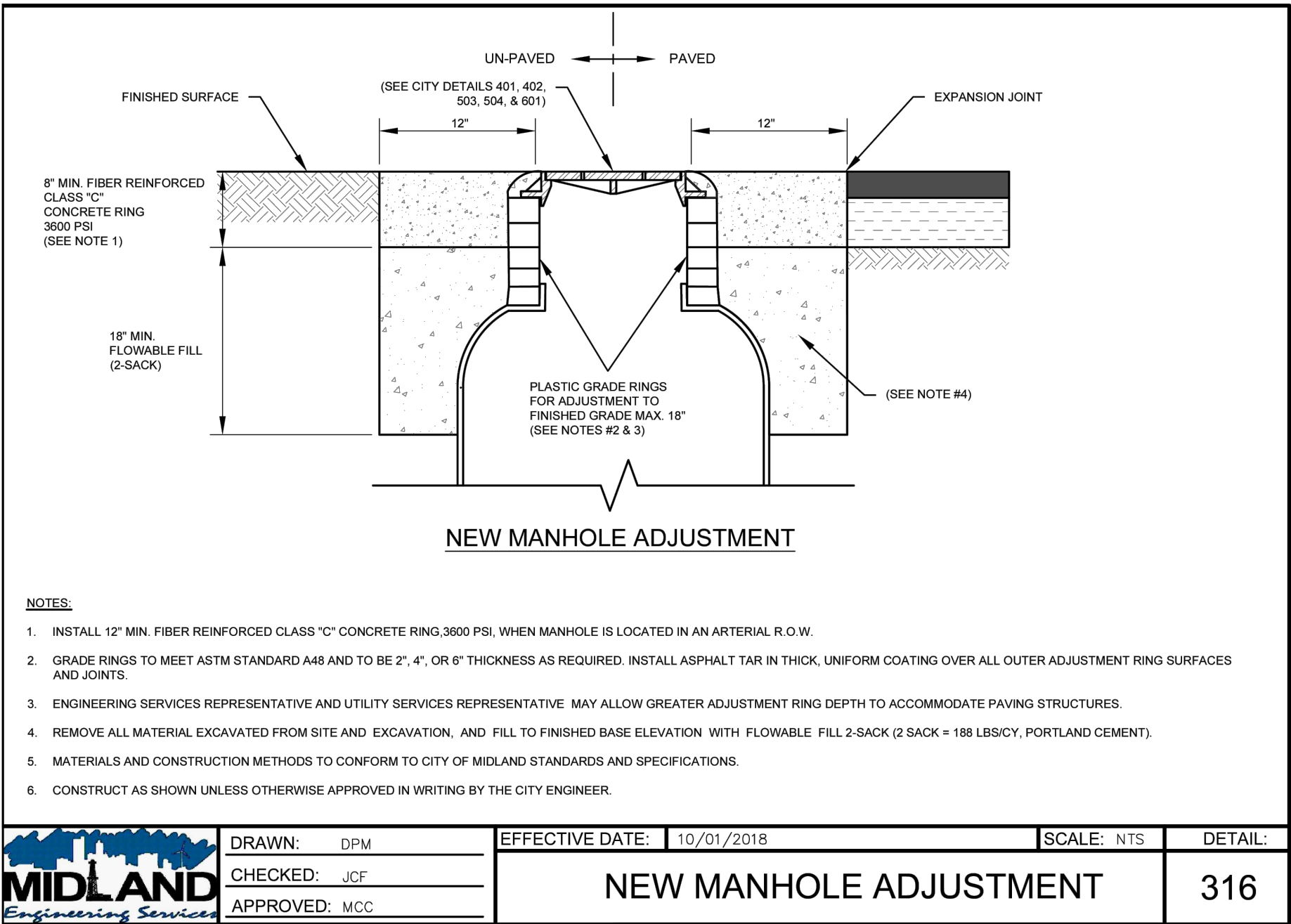
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3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

DATE DESCRIPTION

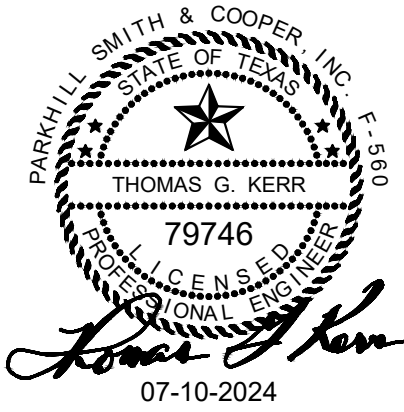
Miscellaneous
Utility Details

C-501

A:\2023\41563.23\03_DSGN\01_DWG\050_CIVIL\03-41563.DWG, 6/19/2024 3:36:31 PM, jvasquez



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PROJECT NO.
41563.23

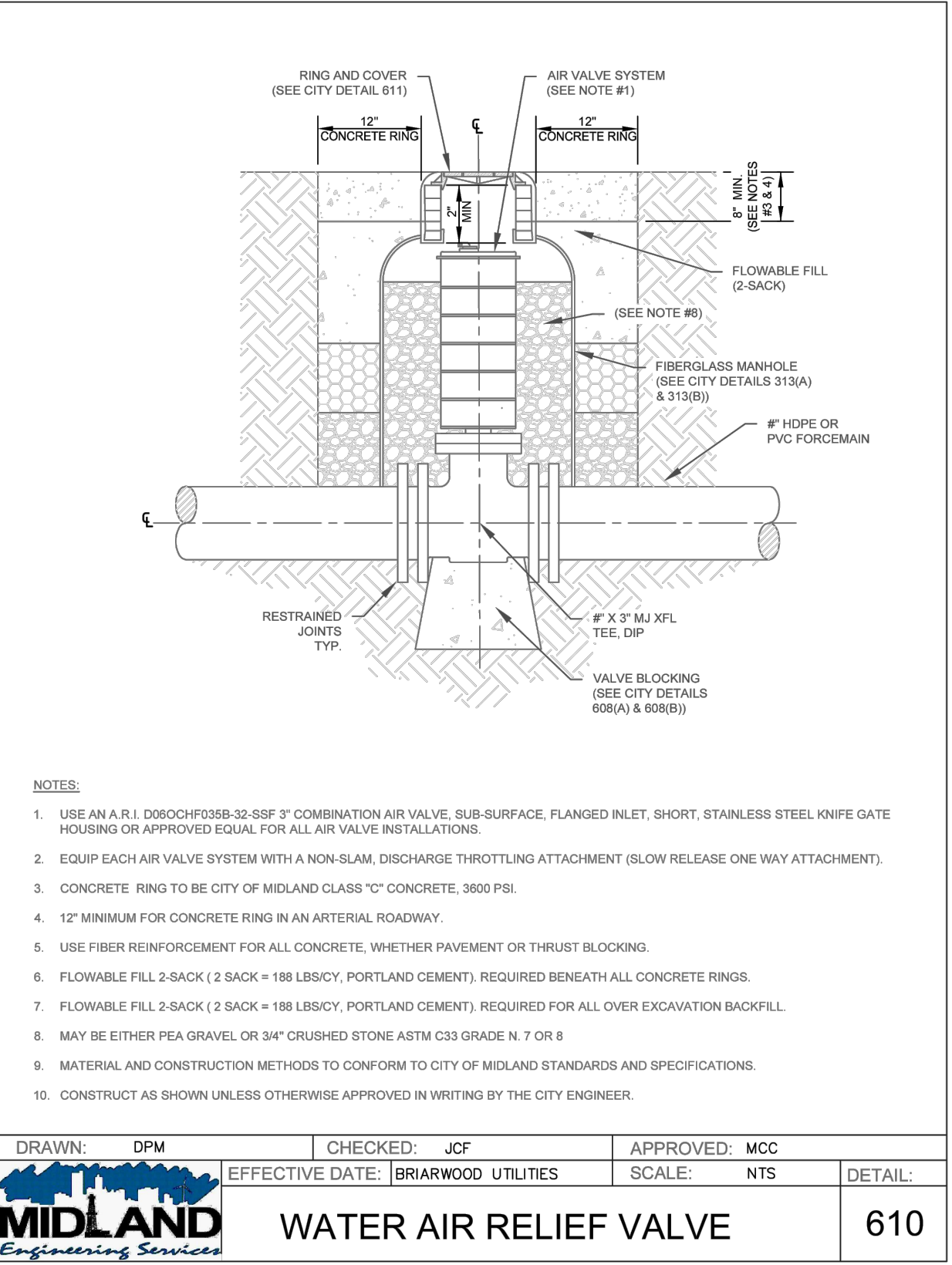
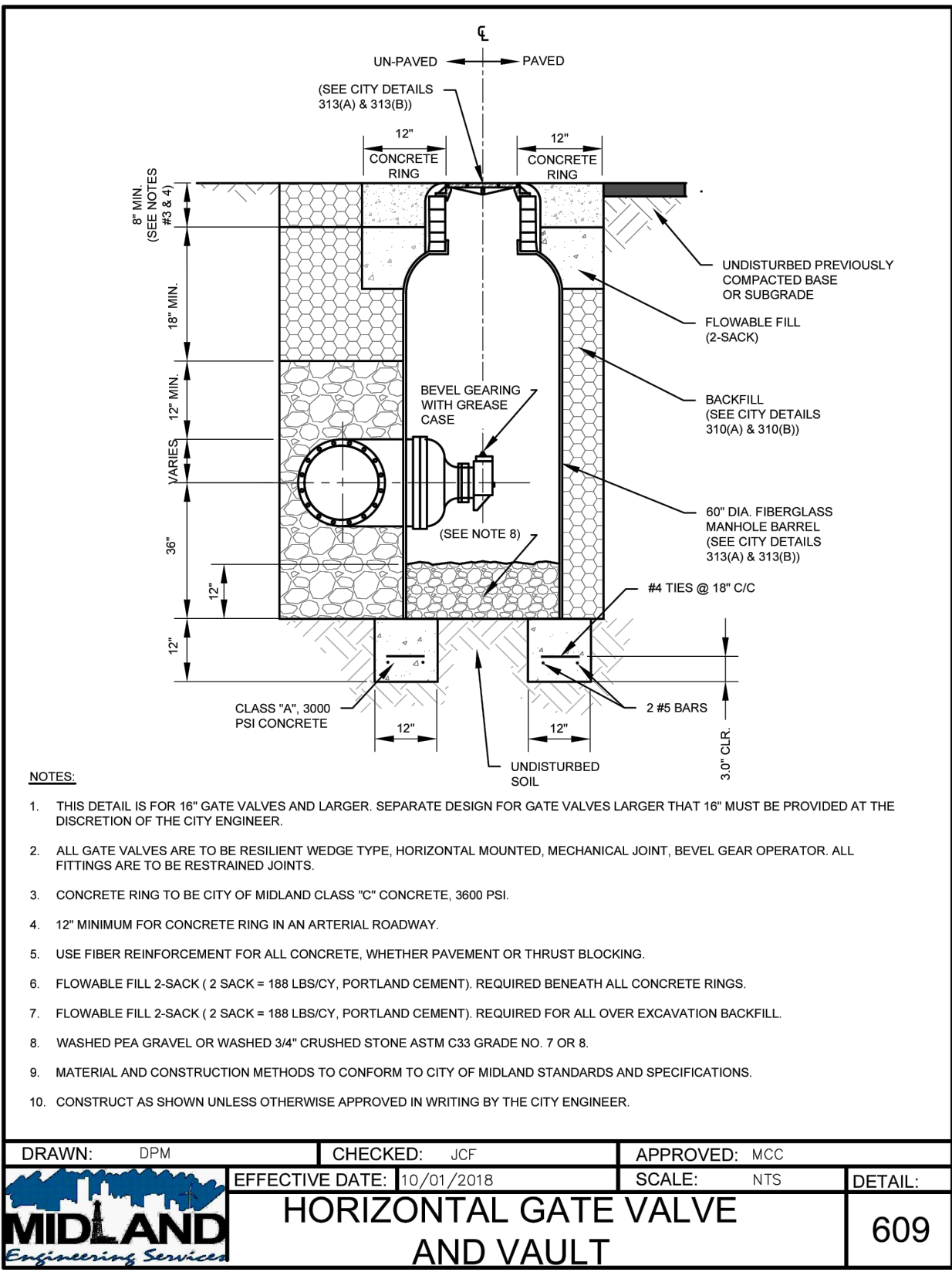
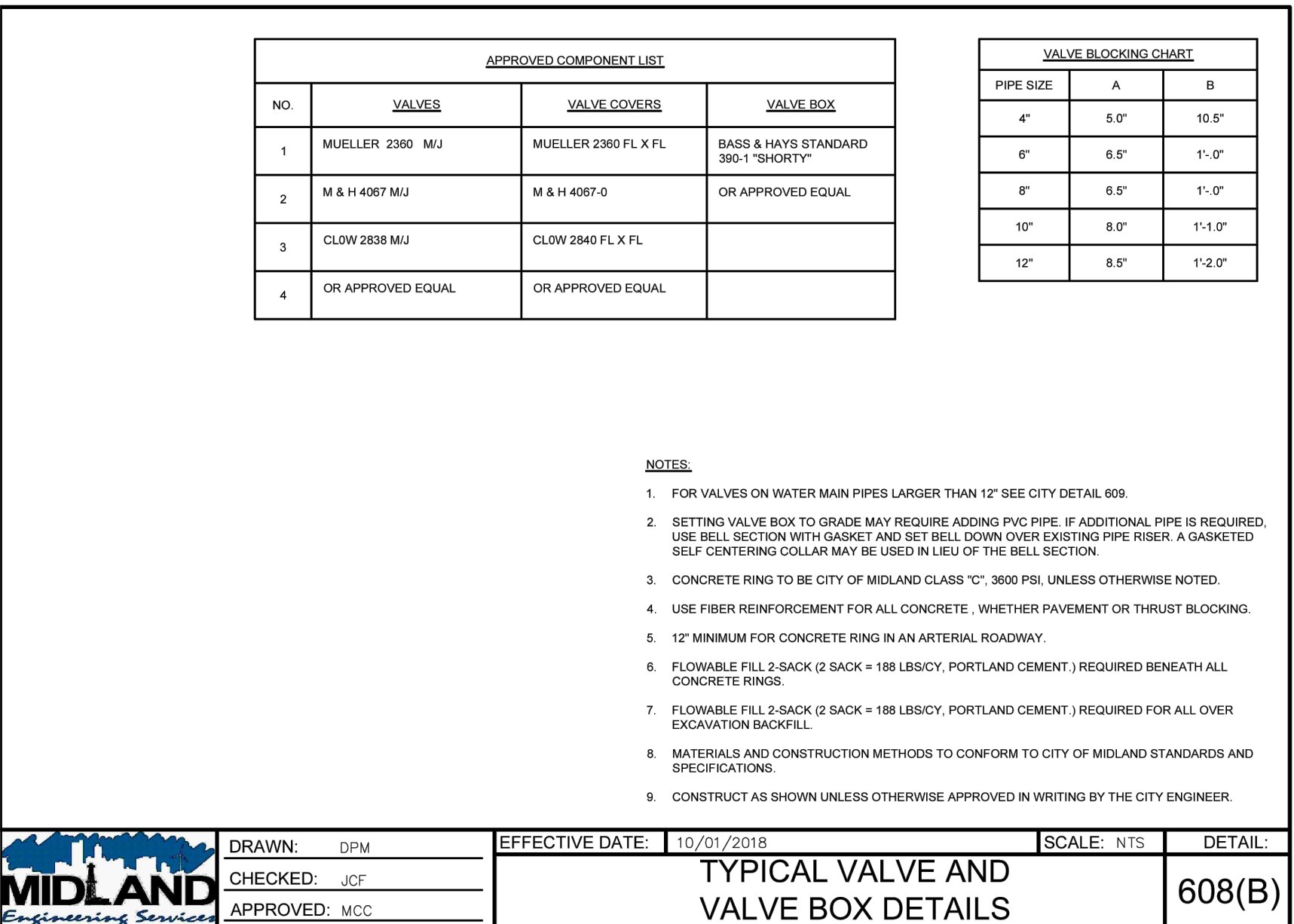
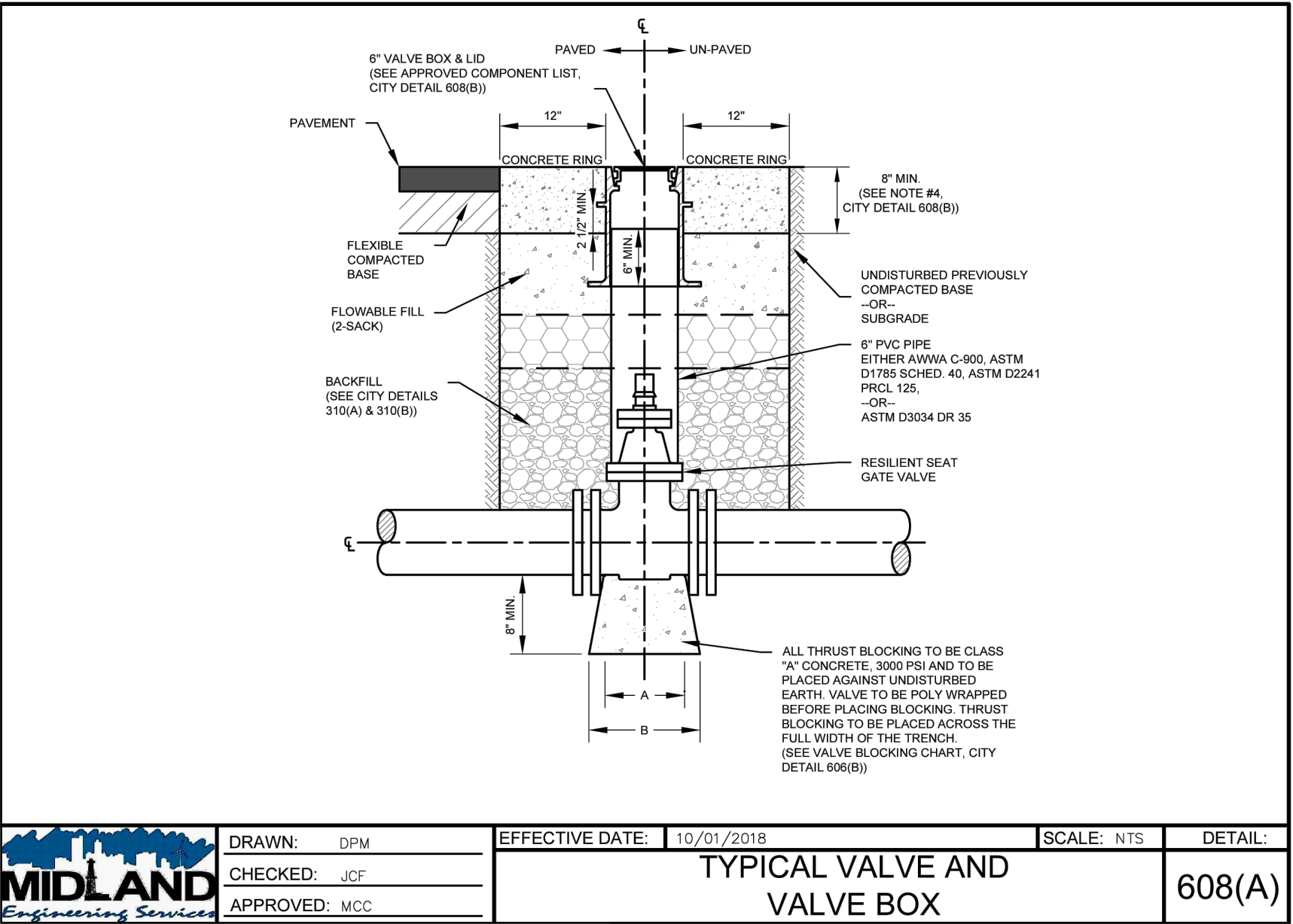
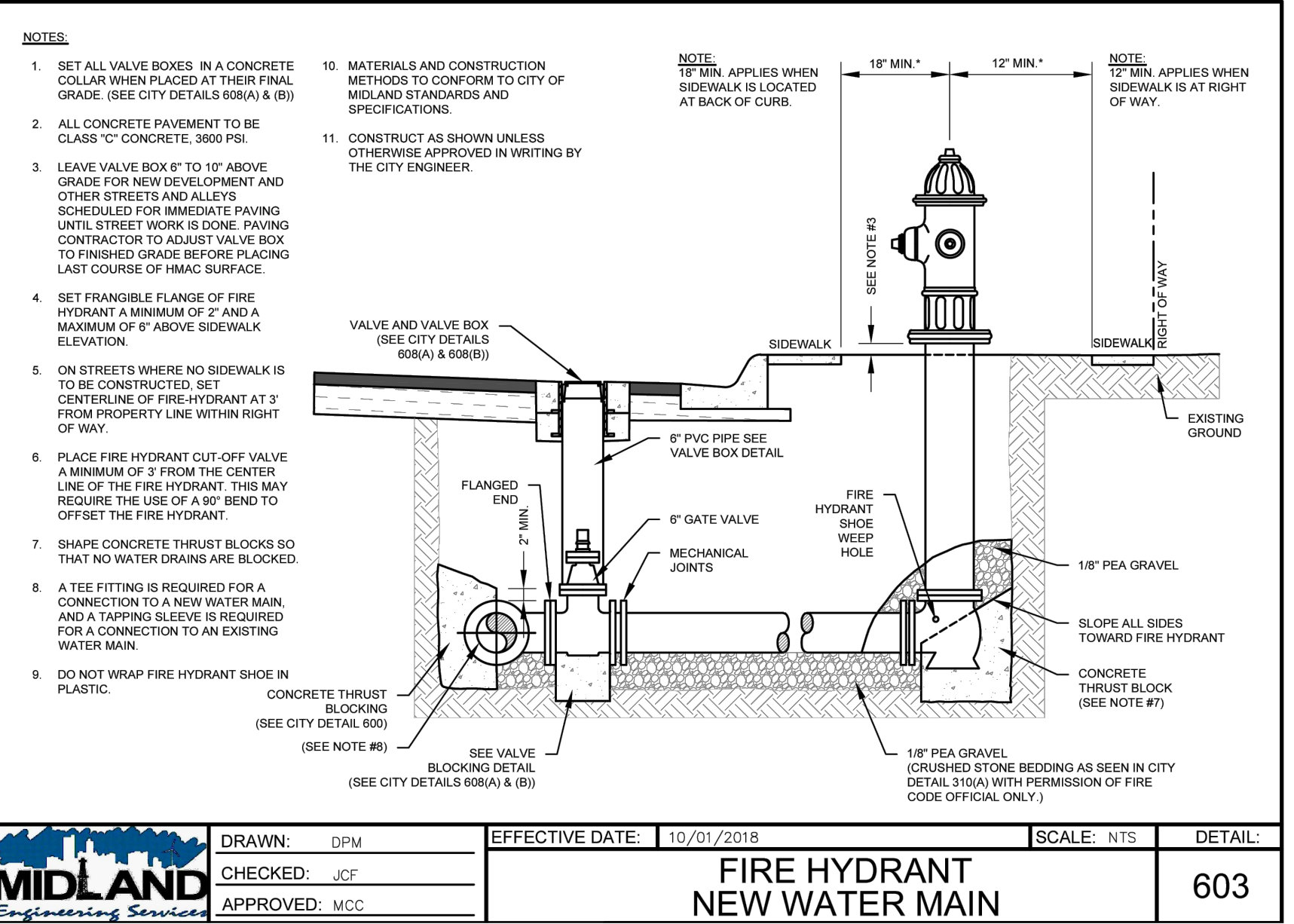
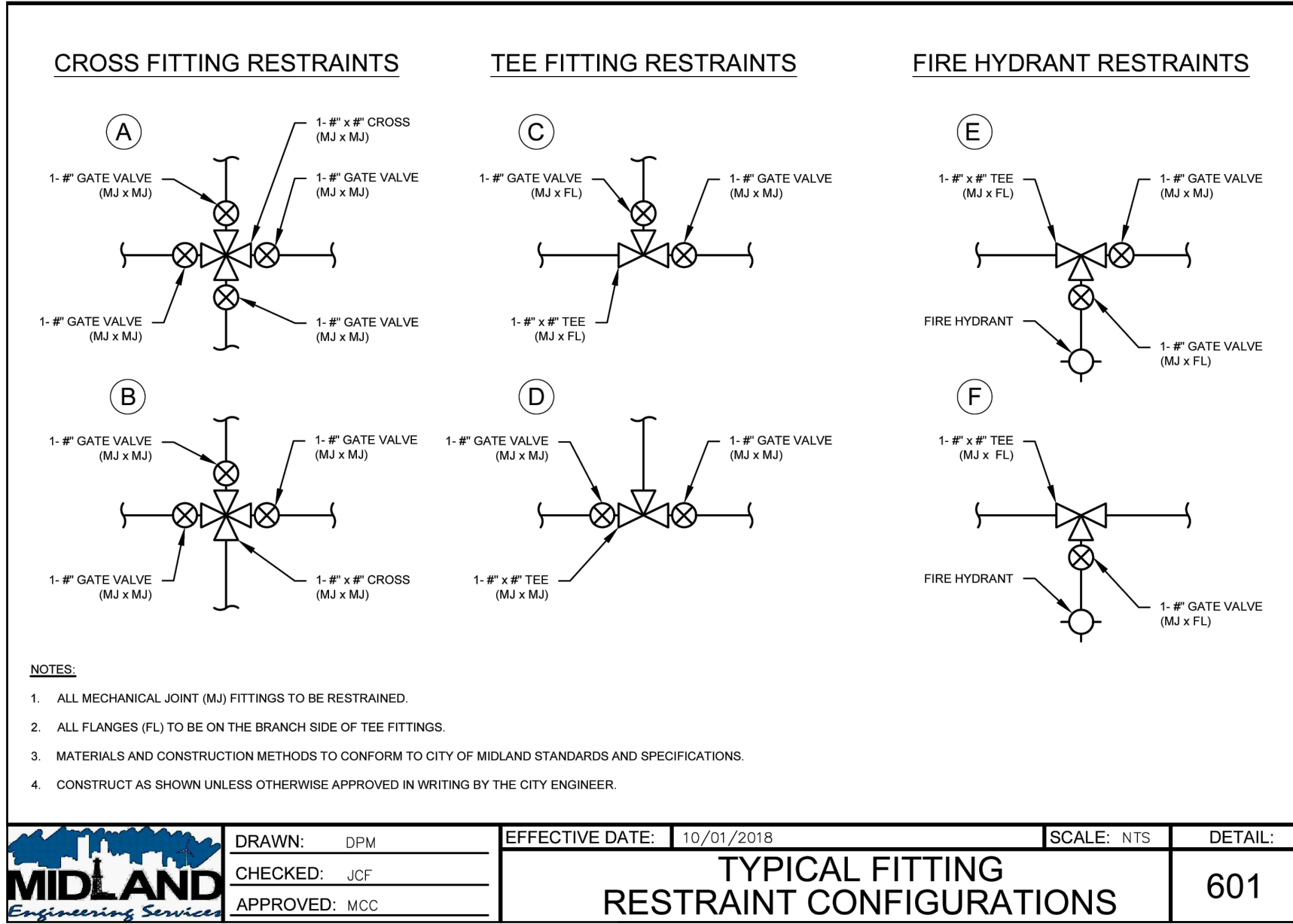
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3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

DATE DESCRIPTION

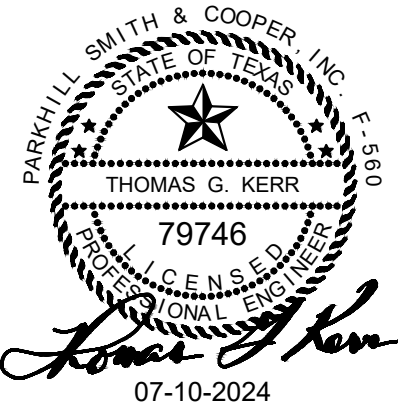
Miscellaneous
Utility Details

C-503

A:\2023\41563.23\03_DSGN01_DWG\650_CIVIL\C-504-1563.DWG, 6/19/2024 3:33:31 PM, jvesquez



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PROJECT NO.

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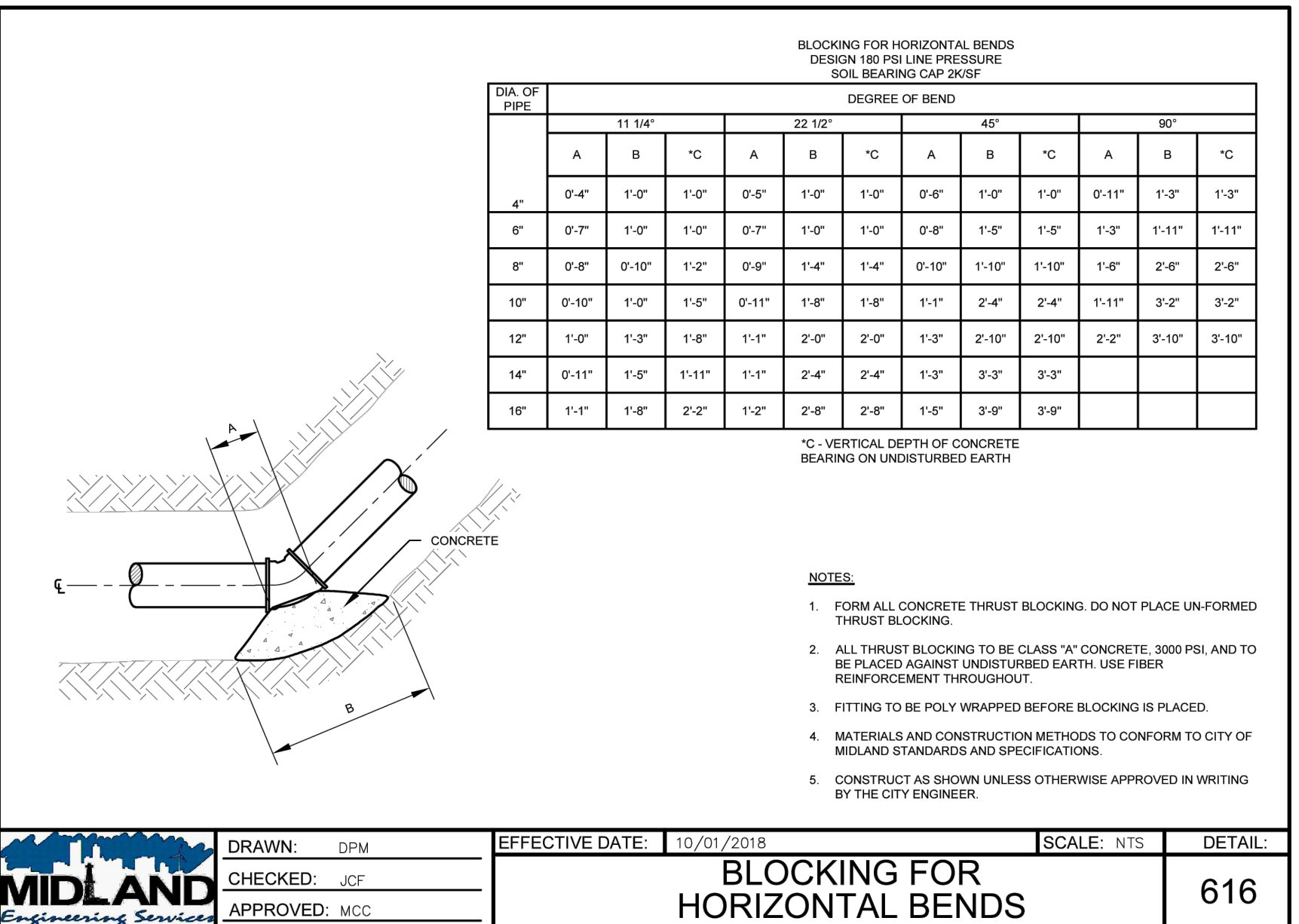
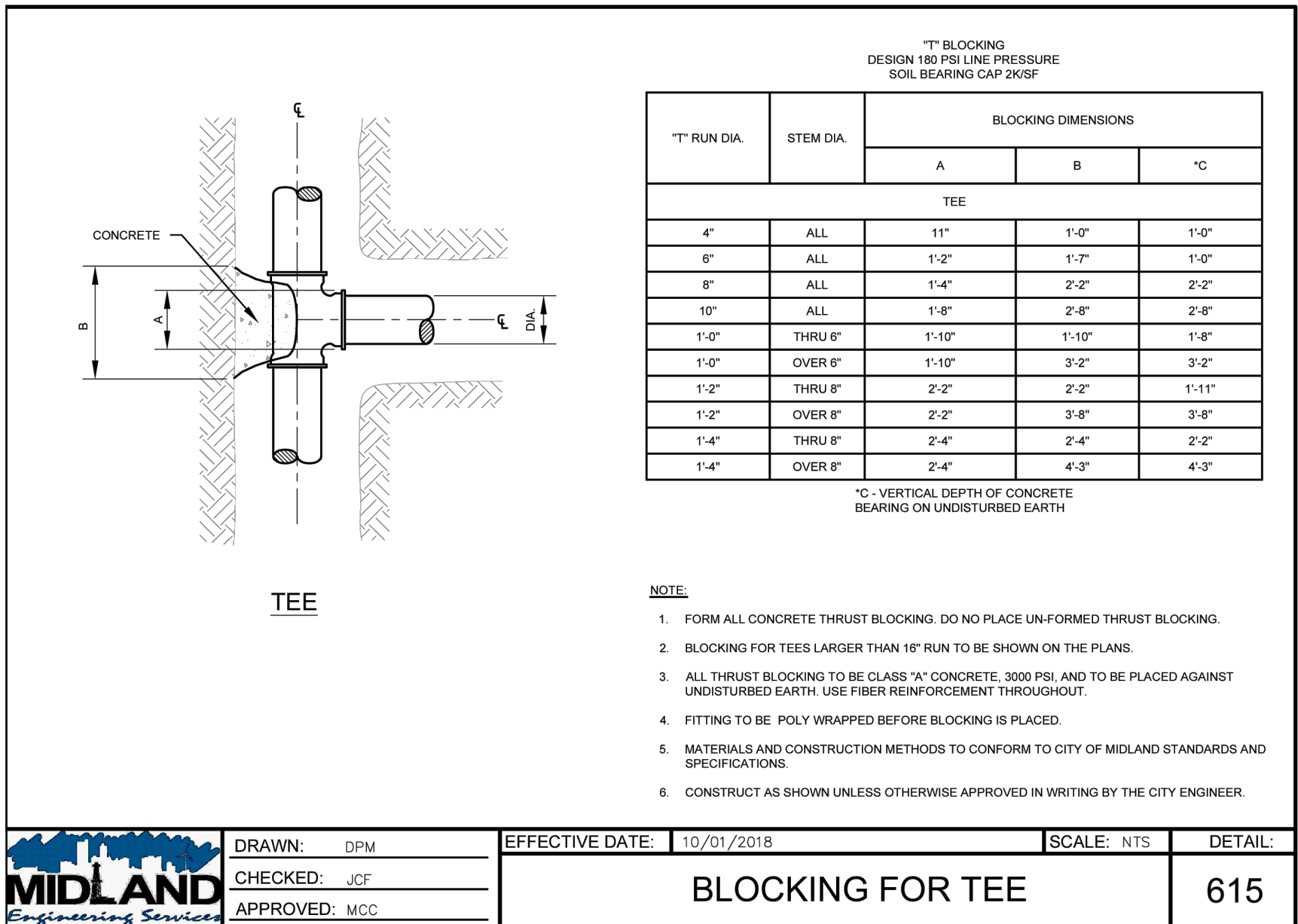
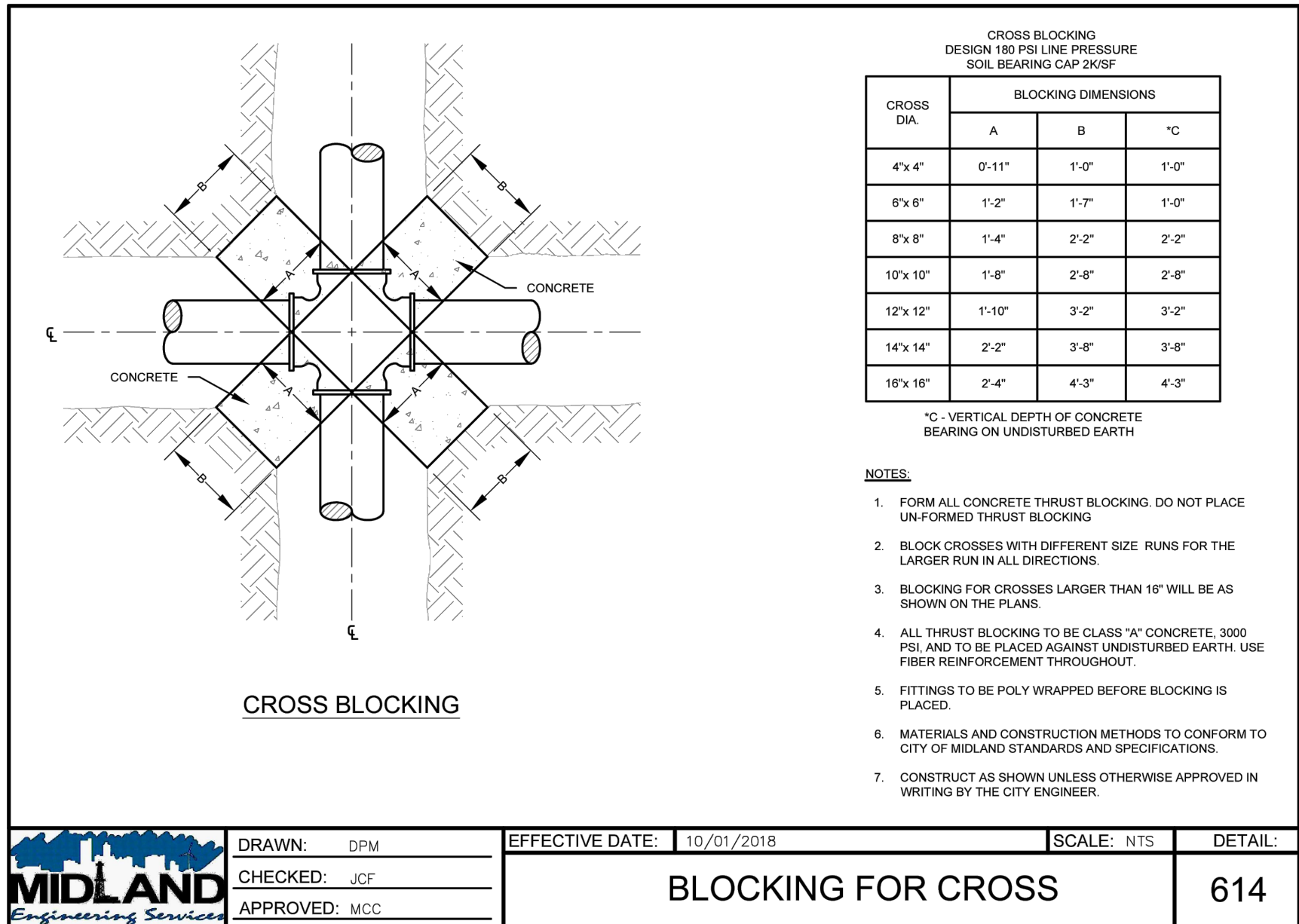
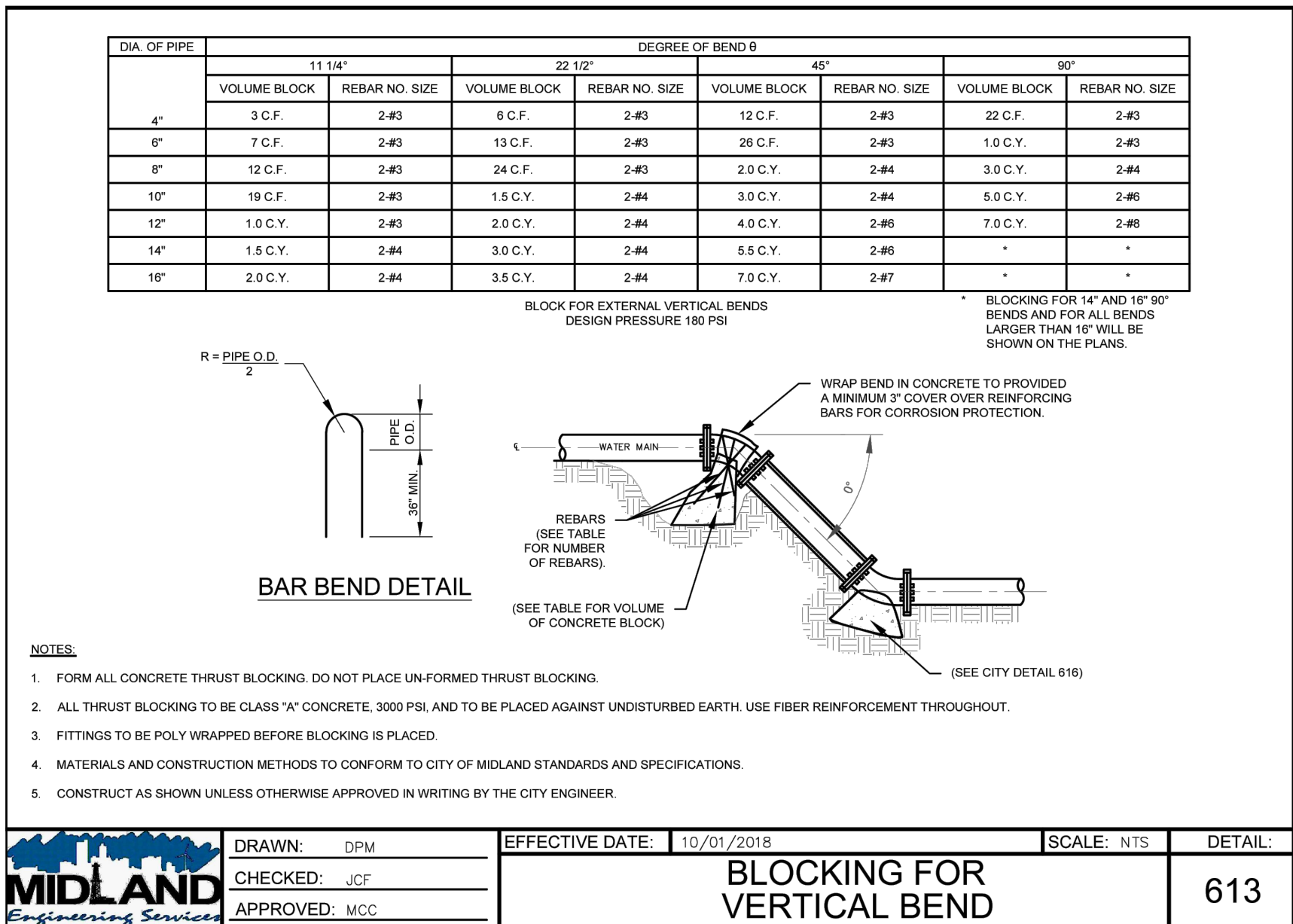
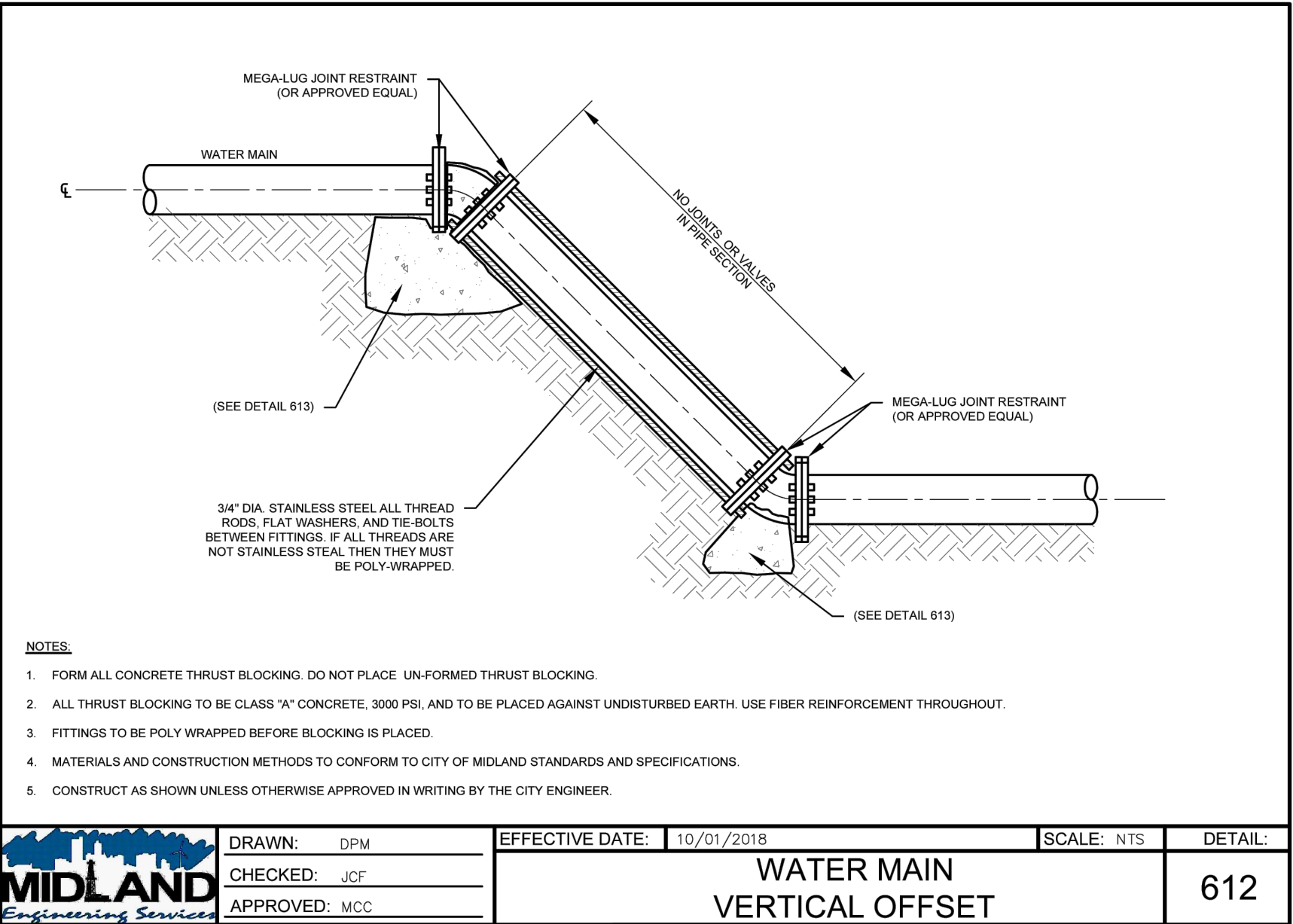
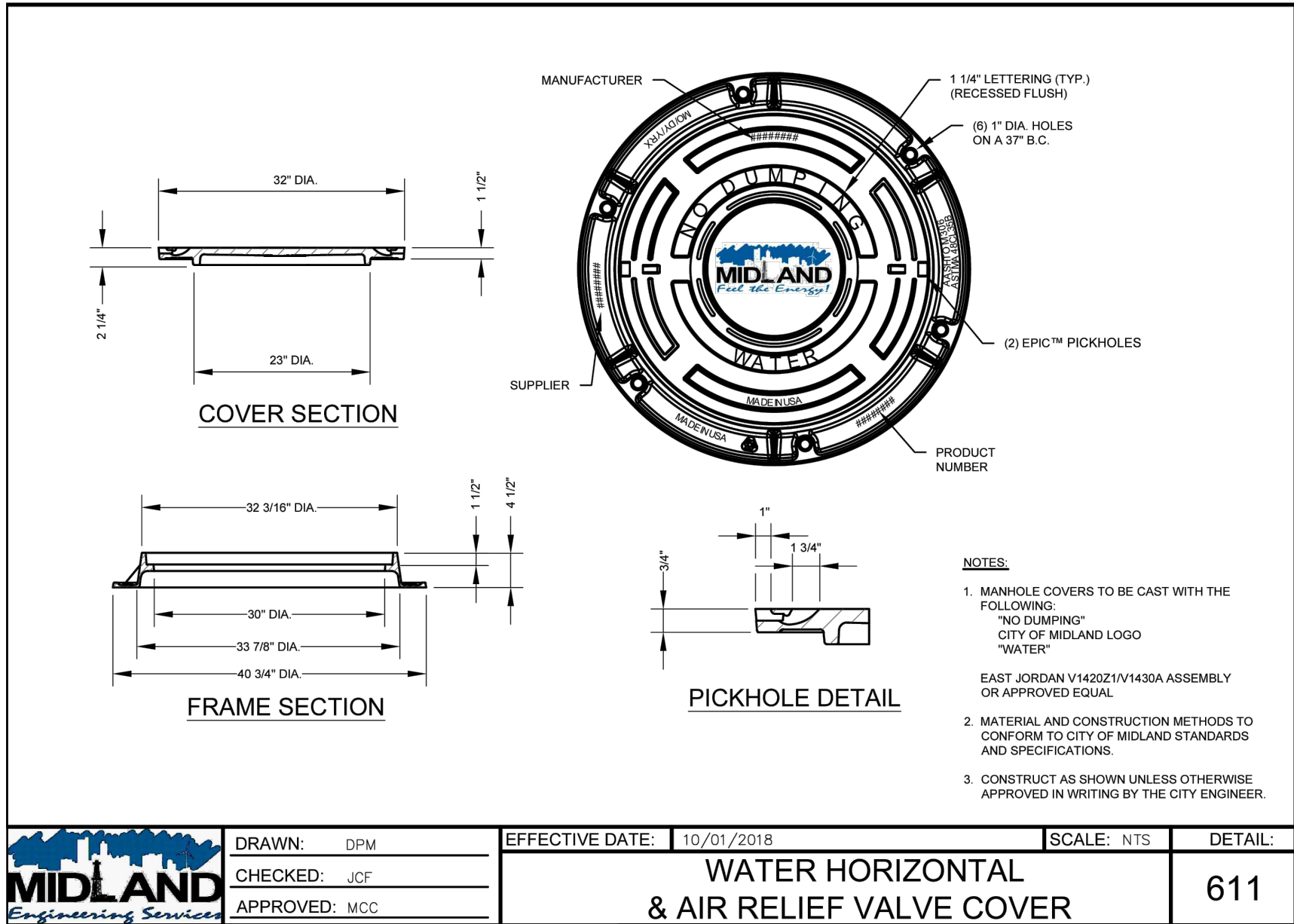
4	07-10-2024	Sealed Set
3	06-20-2024	100% Review
2	05-08-2024	80% Review
1	04-01-2024	60% City Review

DATE DESCRIPTION

Miscellaneous
Details

C-504

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DATE DESCRIPTION

Miscellaneous
Details

C-505

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NO

DESCRIPTION

LENGTH

VAULT WALL

A CLEARANCE SPACE

12"

B TYLER UNION 8" x 4" TEE (MJ x FL)

8"

C MUELLER 8" GATE VALVE (MJ x MJ)

10.5"

D JCM #304 4" DISMANTLING JOINT

16"

E DUCTILE IRON PIPE SPOOL

24"

F NEPTUNE 6" DIA. STRAINER

9"

G NEPTUNE 8" TRUFLO METER

24"

H DUCTILE IRON PIPE SPOOL (FL X FL)

24"

I WATTS #77F 6" DIA. STRAINER

18.5"

J WATTS #757 6" DIA. DCVA

44"

K DUCTILE IRON PIPE SPOOL

12"

L MUELLER 8" GATE VALVE (MJ x MJ)

10.5"

M TYLER UNION 8" x 4" TEE (MJ x FL)

8"

N CLEARANCE SPACE

12"

VAULT WALL

THESE COMPONENTS ARE SET BY THE CITY

DCVA - DOUBLE CHECK VALVE ASSEMBLY

TOTAL INSIDE VAULT LENGTH WITH BACKFLOW PREVENTER = 232.5' - OR - 19.38'

TOTAL INSIDE VAULT LENGTH WITHOUT BACKFLOW PREVENTER = 190.0' - OR - 14.17'

NOTES:

ALL PIPE WITHIN VAULT STRUCTURE TO BE DUCTILE IRON PIPE

APPROVED EQUAL COMPONENTS MAY BE USED UNLESS OTHERWISE NOTED.

DOUBLE CHECK VALVE ASSEMBLY BACKFLOW PREVENTION ONLY REQUIRED FOR METER VAULTS ON LOOPED WATER MAINLINES.

BYPASS PIPE MAY BE LOCATED INSIDE VAULT STRUCTURE IF DESIRED. VAULT WALL TO BE LOCATED A MINIMUM 12" FROM INSIDE VAULT WALL EDGE TO OUTSIDE EDGE OF BYPASS PIPE WITH NO CHANGE TO OTHER WALL DETAIL DIMENSIONS.

MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.

CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

DRAWN: DPM

CHECKED: JCF

APPROVED: MCC

EFFECTIVE DATE: 10/01/2018

SCALE: NTS

DETAIL:

MIDLAND Engineering Services

6 - INCH COMPOUND METER & VAULT

607(C)

NOTES:

CONCRETE TO BE CITY OF MIDLAND CLASS "C" CONCRETE, 3600 PSI. USE FIBER REINFORCED CONCRETE PAVEMENT THROUGHOUT.

PAIN BOLLARD YELLOW.

BOLLARDS PLACED IN SERIES TO BE SPACED FIVE (5) FEET APART MEASURED FROM BOLLARD CENTER TO CENTER.

MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.

CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

DRAWN: DPM

CHECKED: JCF

APPROVED: MCC

EFFECTIVE DATE: 10/01/2018

SCALE: NTS

DETAIL:

MIDLAND Engineering Services

TYPICAL BOLLARD

804

PLAN VIEW

SEE DETAIL 607(B) & 607(C)

NOTES:

ALL FITTINGS COMPACT OR STD DUCTILE IRON.

ALL MJ FITTING TO BE RESTRAINED.

CLASS VII CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED LENGTH.

GRADE 60 REINFORCED STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.

ALUMINUM DIAMOND PLATE COVER WITH EXTRUDED ALUMINUM FRAME. HATCH TO BE FURNISHED WITH STAINLESS STEEL SLAM LOCK AND HINGES. (300 P.S.F. LIVE LOAD)

UNISTRUT CHANNEL SUPPORT AND END BRACKET.

MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.

CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

DRAWN: DPM

CHECKED: JHC

APPROVED: MCC

EFFECTIVE DATE: 10/01/2018

SCALE: NTS

DETAIL:

MIDLAND Engineering Services

6 INCH DOMESTIC COMPOUND WATER METER ASSEMBLIES

607(A)

CAP BLOCKING

NOTES:

CAP ALL WATER MAIN STUB OUTS.

FORM ALL CONCRETE THRUST BLOCKING. DO NOT PLACE UN-FORMED THRUST BLOCKING.

ALL THRUST BLOCKING TO BE CLASS "A" CONCRETE, 3000 PSI, AND TO BE PLACED AGAINST UNDISTURBED EARTH. USE FIBER REINFORCEMENT THROUGHOUT.

FITTINGS TO BE POLY WRAPPED BEFORE BLOCKING IS PLACED.

THRUST BLOCKING DESIGN TO BE PROVIDED IN CONSTRUCTION DRAWINGS FOR PIPES LARGER THAN 16" DIAMETER.

MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.

CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

DRAWN: DPM

CHECKED: JCF

APPROVED: MCC

EFFECTIVE DATE: 10/01/2018

SCALE: NTS

DETAIL:

MIDLAND Engineering Services

BLOCKING FOR CAP

617

SECTION VIEW 'A-A'

SEE DETAIL 607(B) & 607(C)

NOTES:

CASING PIPE TO BE MINIMUM TWO (2) NOMINAL SIZES LARGER IN DIAMETER THAN CARRIER PIPE.

CASING PIPE TO BE NO LESS THAN 12" DIAMETER PIPE. 12"-16" DIAMETER CASING PIPE MAY BE STEEL OR PVC PIPE. CASING PIPE LARGER THAN 16" DIAMETER MUST BE STEEL PIPE. STEEL CASING PIPE TO BE MINIMUM 1/4" WALL THICKNESS. PVC CASING PIPE TO BE SDR-26 (2024) OR C-100.

CASING PIPE TO BE STEEL OR PVC.

WATER TIGHT END SEAL TO BE GROUT OR APPROVED MANUFACTURED SEAL.

CASING SPACERS TO BE HDPE OR APPROVED EQUAL. MINIMUM FOUR (4) EQUALLY SPACED RUNNERS, WITH BAND CLAMP JOINT LOCATED AT SPRINGLINE. SPACERS FOR CASING PIPE LARGER THAN 24" DIAMETER REQUIRE MINIMUM SIX (6) EQUALLY SPACED RUNNERS.

CASING INSTALLED IN OPEN TRENCH IS TO BE BACKFILLED PER CURRENT CITY STANDARDS FOR AN UN-ENCASED MAIN.

MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.

CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

DRAWN: DPM

CHECKED: JHC

APPROVED: MCC

EFFECTIVE DATE: 10/01/2018

SCALE: NTS

DETAIL:

MIDLAND Engineering Services

6 INCH DOMESTIC COMPOUND WATER METER ASSEMBLIES

607(B)

CROSS SECTION VIEW

SECTION 'A-A'

NOTES:

CASING PIPE TO BE MINIMUM TWO (2) NOMINAL SIZES LARGER IN DIAMETER THAN CARRIER PIPE.

CASING PIPE TO BE NO LESS THAN 12" DIAMETER PIPE. 12"-16" DIAMETER CASING PIPE MAY BE STEEL OR PVC PIPE. CASING PIPE LARGER THAN 16" DIAMETER MUST BE STEEL PIPE. STEEL CASING PIPE TO BE MINIMUM 1/4" WALL THICKNESS. PVC CASING PIPE TO BE SDR-26 (2024) OR C-100.

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CASING SPACERS TO BE HDPE OR APPROVED EQUAL. MINIMUM FOUR (4) EQUALLY SPACED RUNNERS, WITH BAND CLAMP JOINT LOCATED AT SPRINGLINE. SPACERS FOR CASING PIPE LARGER THAN 24" DIAMETER REQUIRE MINIMUM SIX (6) EQUALLY SPACED RUNNERS.

CASING INSTALLED IN OPEN TRENCH IS TO BE BACKFILLED PER CURRENT CITY STANDARDS FOR AN UN-ENCASED MAIN.

MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.

CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

DRAWN: DPM

CHECKED: JCF

APPROVED: MCC

EFFECTIVE DATE: 10/01/2018

SCALE: NTS

DETAIL:

MIDLAND Engineering Services

TYPICAL PIPE CASING DETAIL

805

NOTES:
A. BOLLARD PROTECTION FOR FIRE HYDRANTS IS REQUIRED WHERE FIRE HYDRANT IS SUSCEPTIBLE TO VEHICULAR DAMAGE OR SPECIFIED ON THE PLANS.

FIRE HYDRANT PIPE BOLLARD PROTECTION DETAIL

D5
NOT TO SCALE

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DATE DESCRIPTION

Miscellaneous
Details

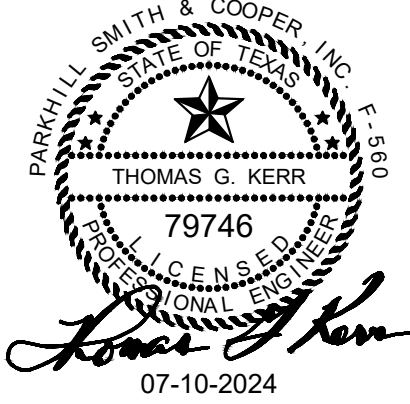
C-506



SPECIAL SPECIFICATION
On-Site Sewage Facility (OSSF) / Septic System Decommissioning

- Description.** Pump out septic system components; collapse septic system tanks; contain and dispose of tank and drain field contents, in accordance with federal, state and local laws and regulations. The system components include, but are not limited to, the septic tank, strainer, associated piping, and septic drain field lines or appurtenances. The various septic systems are shown on the plans.
- Construction.** All work shall be monitored and completed under the supervision of a Texas Commission on Environmental Quality (TCEQ) licensed OSSF Installer II. Remove, contain, transport, and dispose of the contents of the septic tank and drain field system (liquids and solids) using a TCEQ registered waste transporter. Exercise reasonable care to prevent spillage or release to the environment. Once the septic tank and drain field system contents are removed, collapse the septic system tanks making sure not to leave void spaces under broken concrete or other materials by either sufficiently crushing the concrete or materials, or, filling the void spaces with flowable sand or gravel material. Backfill the site with clean soils or acceptable trench spoils without stone larger than 2" from the installation of water and sewer lines. Backfill shall be well compacted 6" lifts. The compacted surface area shall be left 2" above the surrounding ground allowing for ground settling. No rocks larger than 2" shall be present on the surface of the site. The facility septic system wastes include any liquid, wash-down water, or solid wastes removed from the system. Dispose of these wastes off-site by employing a TCEQ registered waste transporter and using a TCEQ-permitted Type 1 Solid Waste Disposal facility.
- Certification and Filing.** The TCEQ Licensed OSSF Installer II shall certify and file the decommissioning of the OSSF system with the appropriate permitting authority.
- Measurement.** This Item will be measured by each complete Facility Septic System decommissioned as described above.
- Payment.** The work performed and materials furnished in accordance with this Item, and measured as provided under "Measurement" will be paid for at the unit price bid for "OSSF System Decommissioning." This price is full compensation for the removing, transporting, and disposing of septic system contents, collapsing and backfill of the system as described in this Special Specification. This price is also full compensation for backfilling and embankment, materials, labor, tools, equipment, manipulation, hauling, disposal and incidentals necessary to complete the work. Documentation of excavation, transportation, and disposal in accordance with this Special Specification is required for payment.

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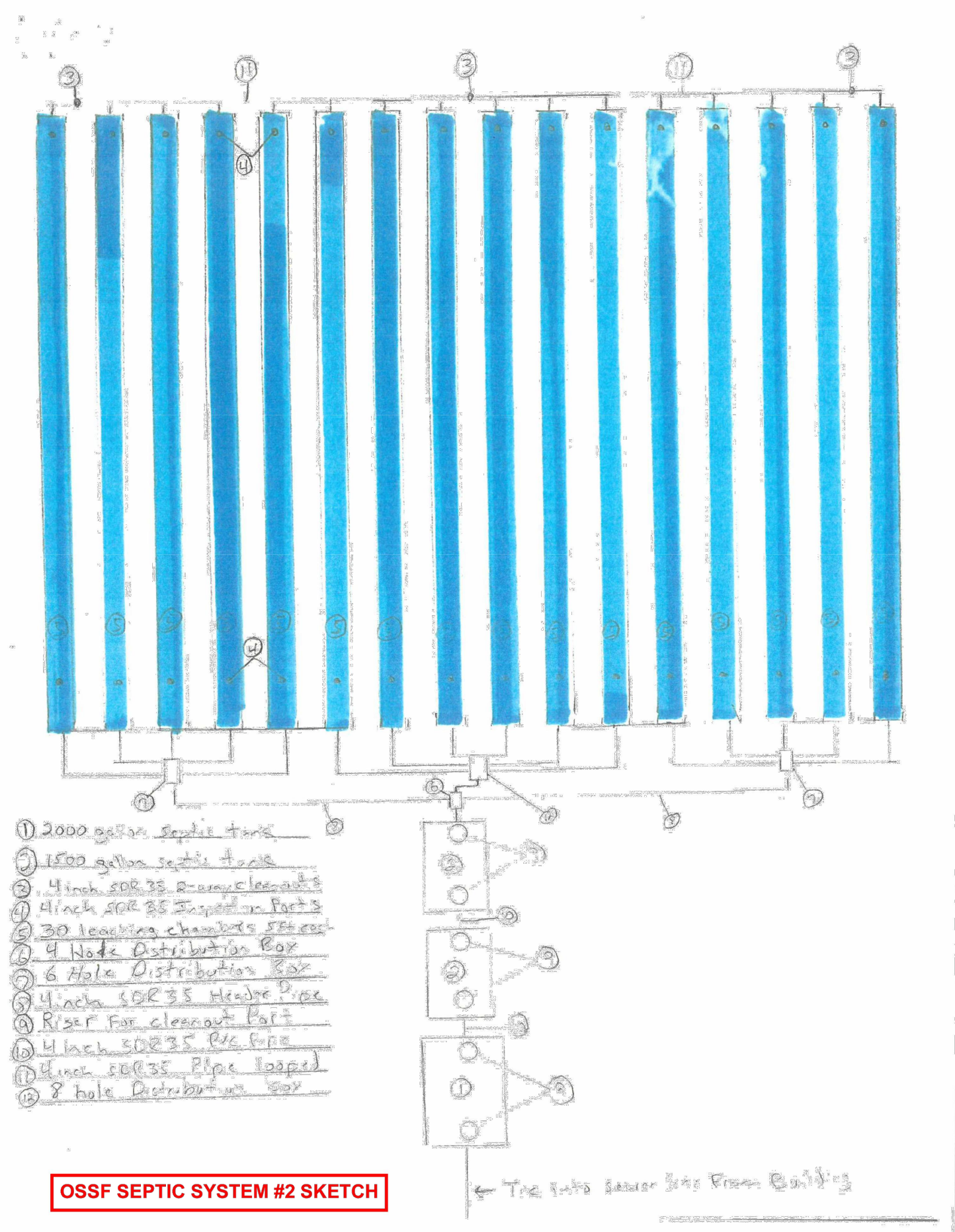
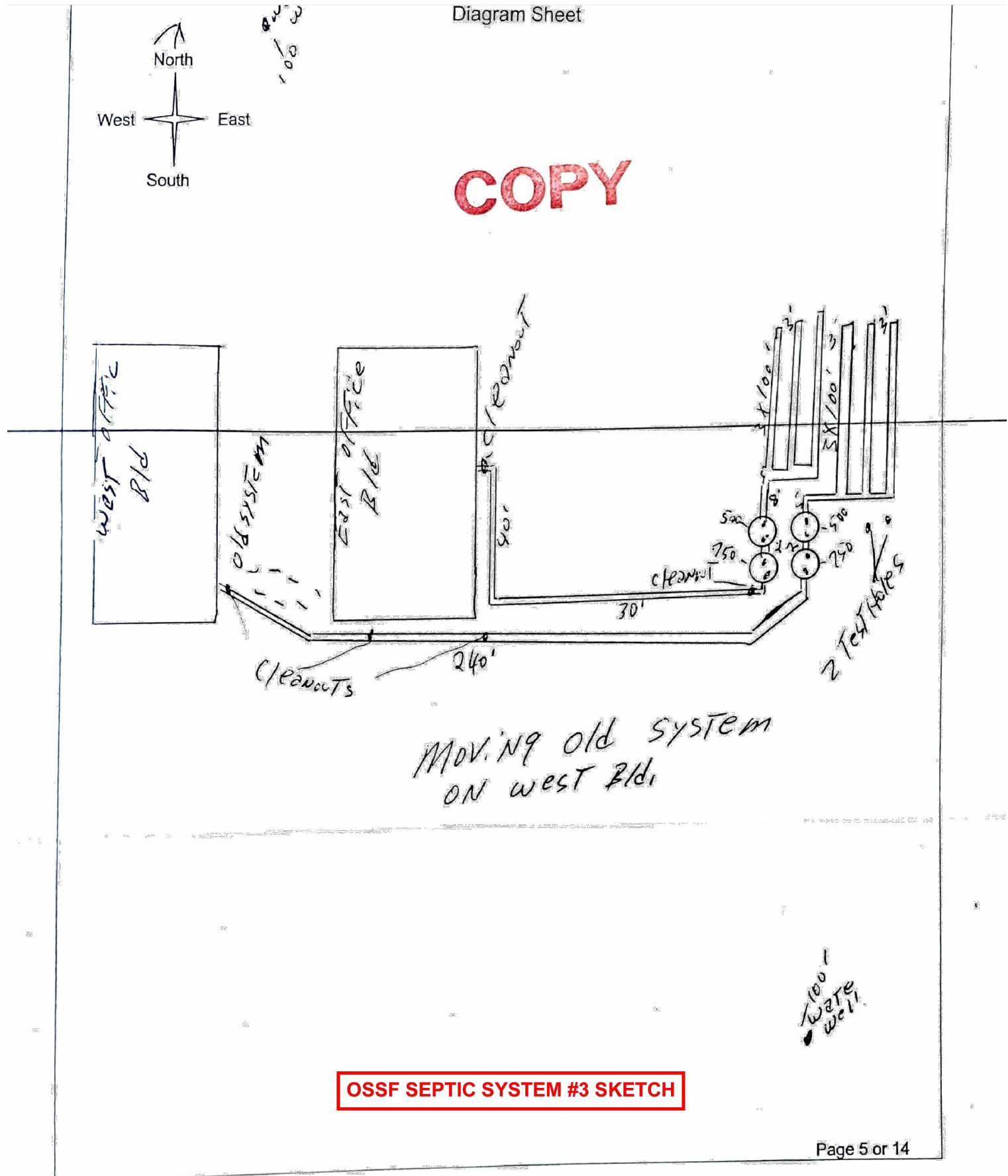
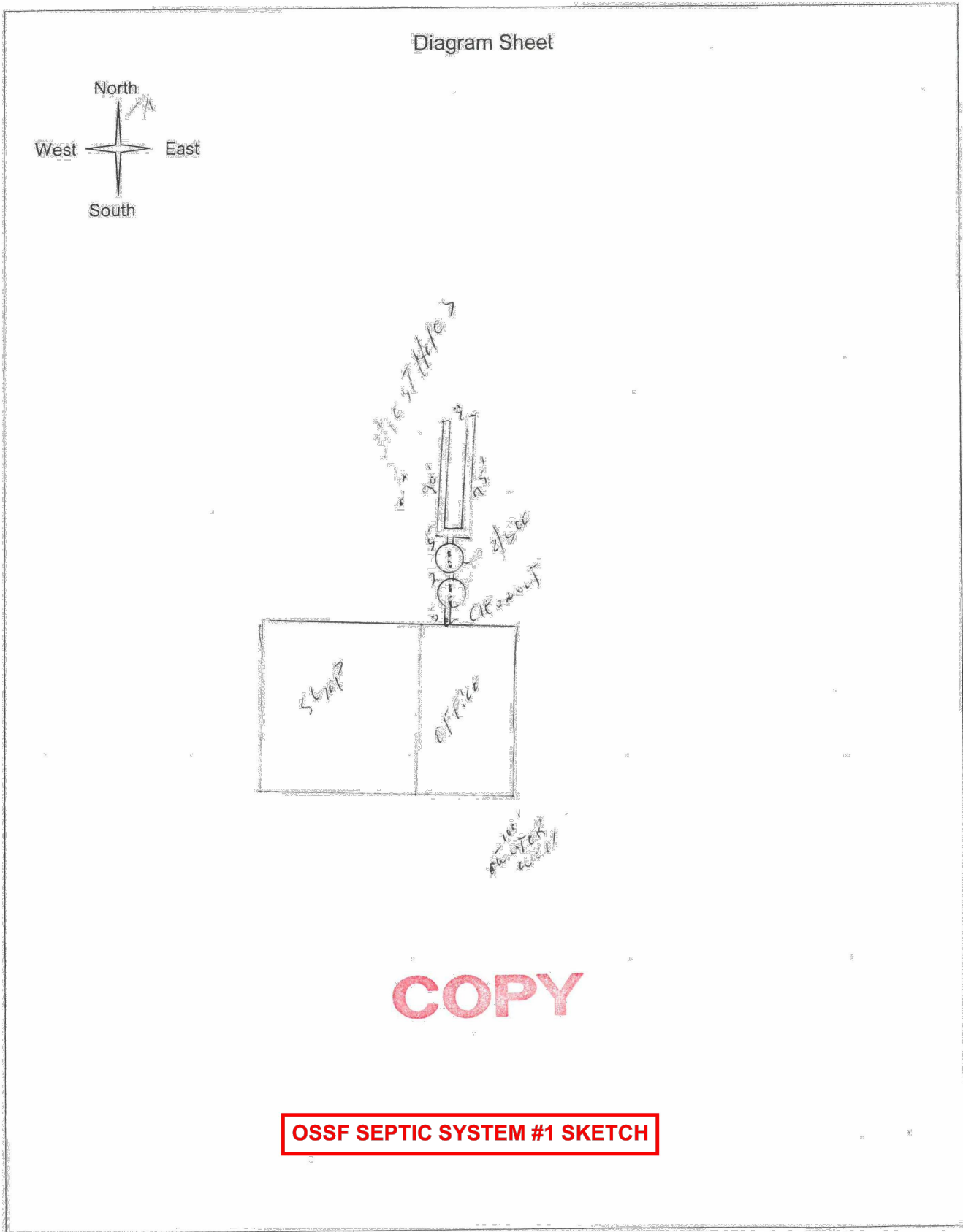
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1	04-01-2024	60% City Review

DATE DESCRIPTION

Details
Decommission
Septic Systems

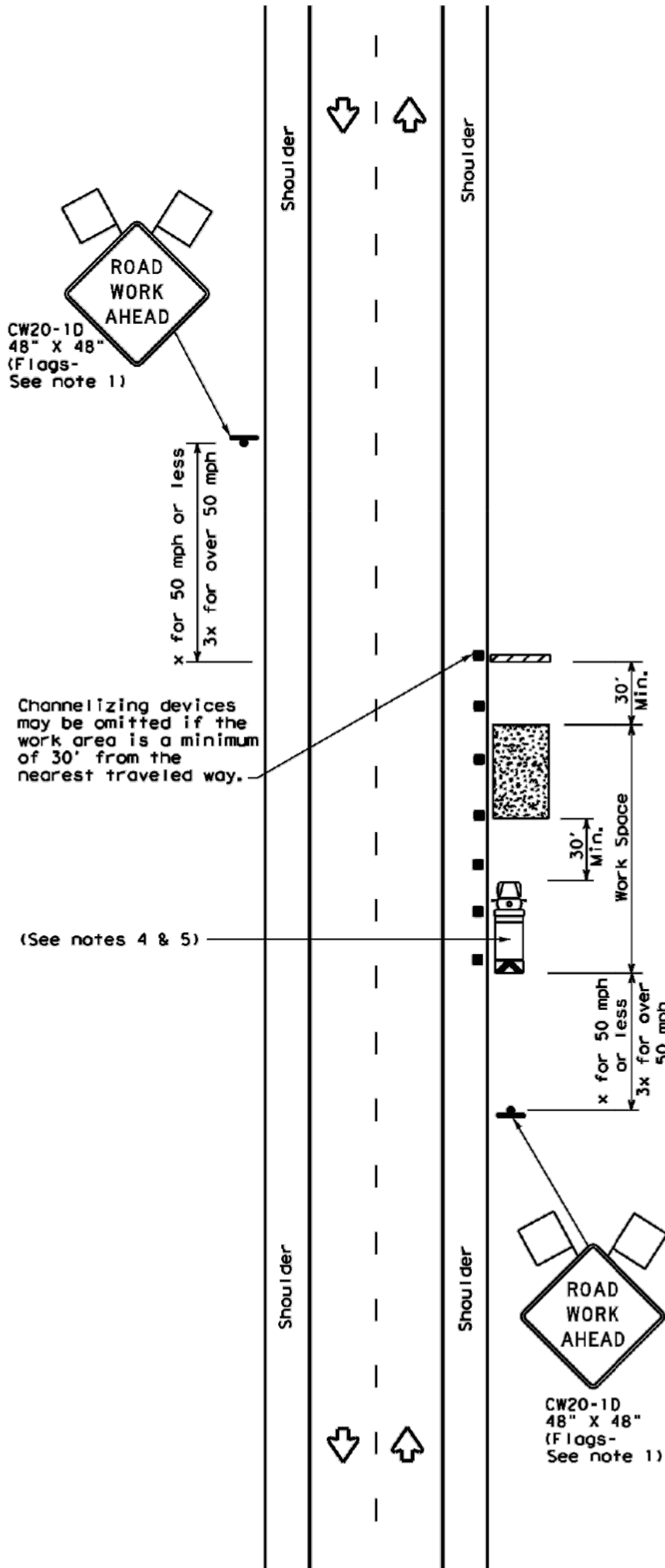
C-507



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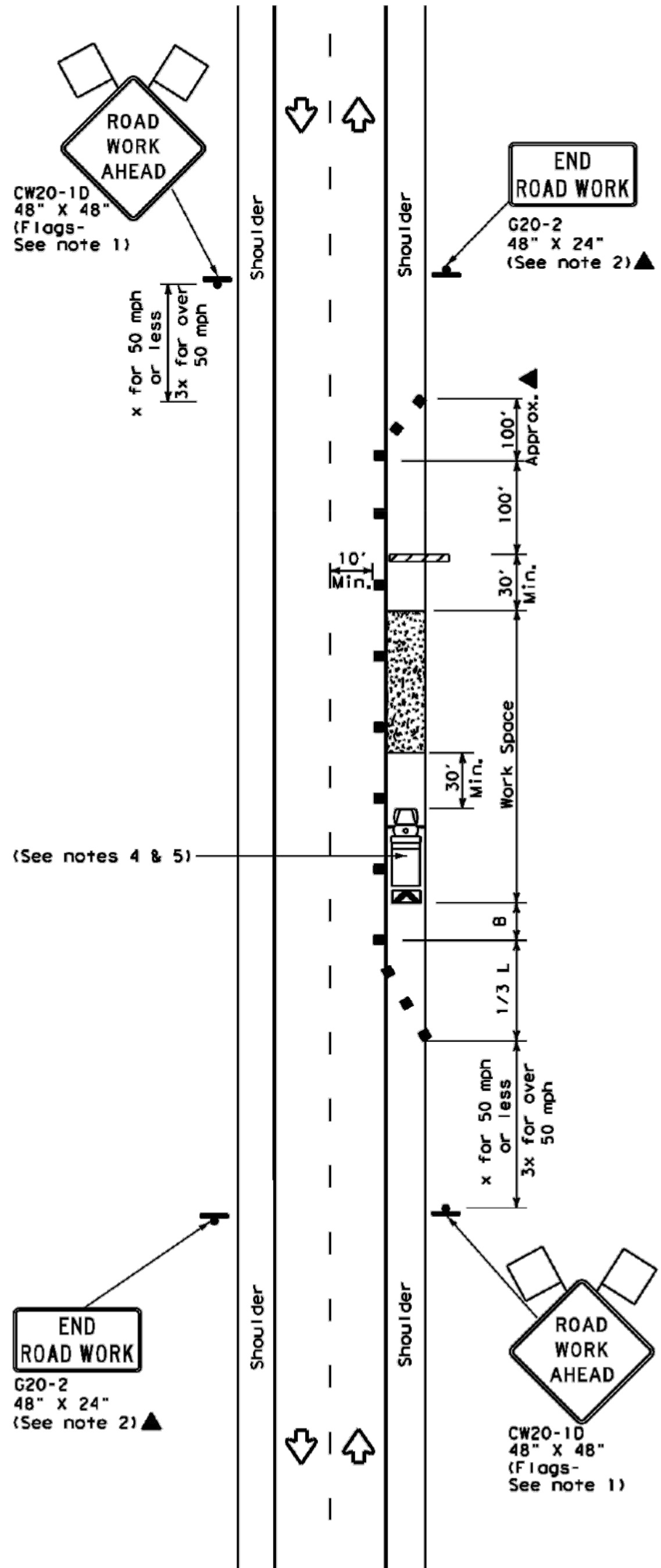
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The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:
FILE:



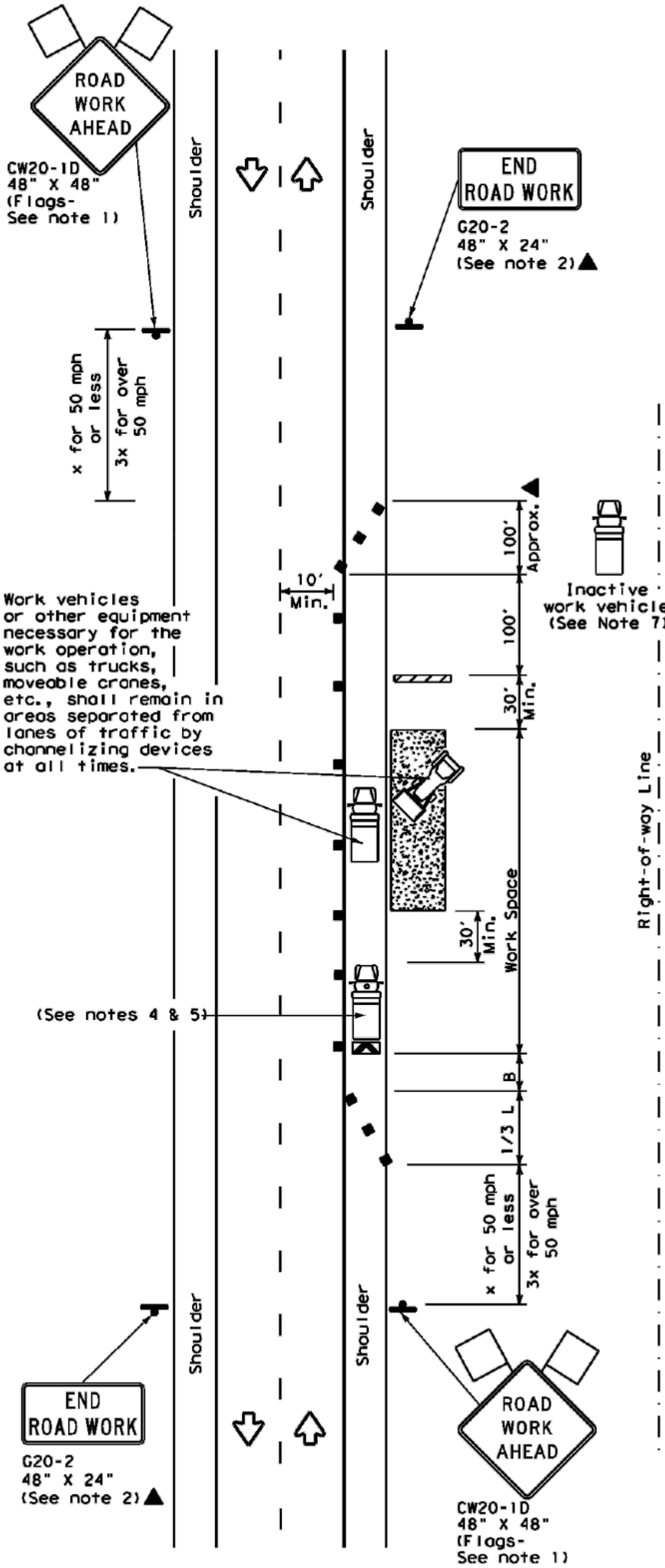
TCP (2-1a)

WORK SPACE NEAR SHOULDER
Conventional Roads



TCP (2-1b)

WORK SPACE ON SHOULDER
Conventional Roads



TCP (2-1c)

WORK VEHICLES ON SHOULDER
Conventional Roads

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only
** Taper lengths have been rounded off.
L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓	✓	✓

GENERAL NOTES

- Flags attached to signs where shown, are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated in the plans, or for routine maintenance work, when approved by the Engineer.
- Stockpiled material should be placed a minimum of 30 feet from nearest traveled way.
- Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.
- See TCP(5-1) for shoulder work on divided highways, expressways and freeways.
- Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
- CW21-5 "SHOULDER WORK" signs may be used in place of CW20-1D "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

		Traffic Operations Division Standard			
TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK					
TCP (2-1) - 18					
FILE: tcp2-1-18.dgn	DN: 1	CK: 1	DN: 1		
© TxDOT December 1985	CONT	SECT	JOB		
2-94 4-98	DIST	COUNTY	SHEET NO.		
8-95 2-12					
1-97 2-18					



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