

THE CITY OF MIDWEST CITY

Matt Dukes
Mayor

Susan Eads
Ward 1

Marc Thompson
Ward 4

Pat Byrne
Ward 2

Sara Penn
Ward 5

Rita Maxwell
Ward 3

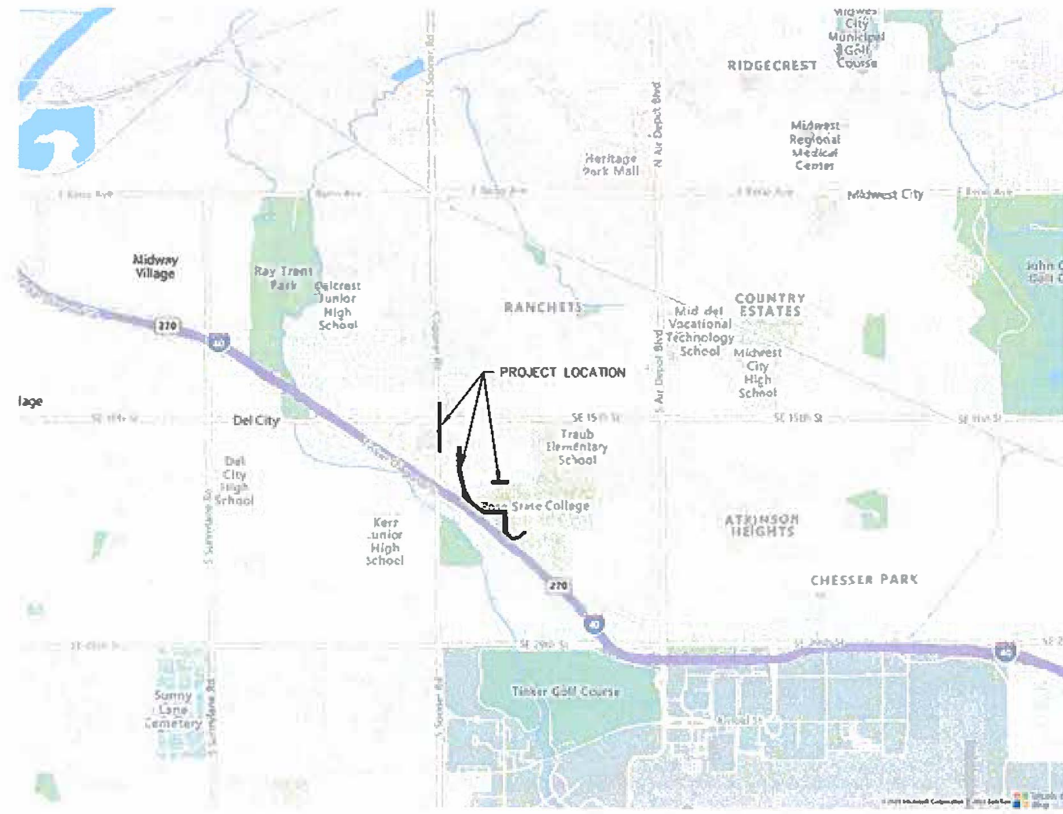
Rick Favors
Ward 6



Tim Lyon
City Manager

Sara Hancock
City Clerk

PLAN OF PROPOSED SANITARY SEWER IMPROVEMENTS SOONER ROSE PROJECT NUMBER - 1111 SEC. 4 & SEC. 9, T11N, R2W, I.M. OKLAHOMA COUNTY, OKLAHOMA



GOVERNMENT / UTILITY CONTACTS		
ENTRY NAME	CONTACT	PHONE NUMBER
MIDWEST CITY	PAUL STREETS PUBLIC WORKS DIR.	405-739-1061
MIDWEST CITY	BRANDON BUNDY ENG. & CONST. SERV. DIR.	405-739-1213
MIDWEST CITY	CARRIE EVENSON AST. PUBLIC WORKS DIR.	405-739-1062
MIDWEST CITY	DOHNA AKIN OFFICE MANAGER	405-739-1064
ODOT	BILL WALTON UTILITIES ENGINEER	580-336-7340
OG&E	CUSTOMER SERVICE	405-272-9595
ONG	CUSTOMER SERVICE	800-664-5463 (NON-EMERGENCY)

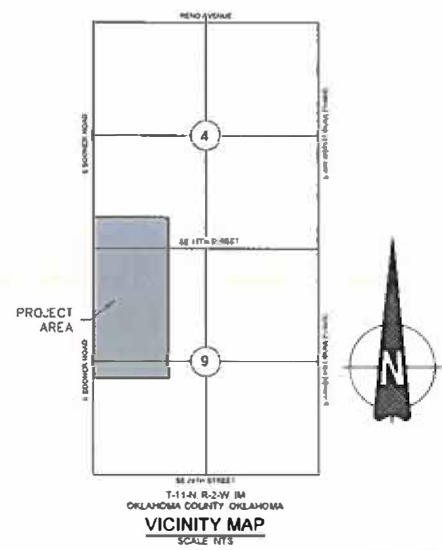
SURVEY CONTROL DATA
1. HORIZONTAL/VERTICAL CONTROL
HORIZONTAL DATUM IS BASED ON THE OKLAHOMA STATE PLANE COORDINATE SYSTEM (NORTH ZONE) NAD 83.
VERTICAL DATUM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (MAYD 88)

BENCHMARKS		
BM #1 N=164541.99 E=2140194.58 ELEV.=1203.96' DESC.=CUT 'X'	BM #2 N=163564.24 E=2140245.76 ELEV.=1207.37' DESC.=MAG NAIL	BM #3 N=163254.81 E=2140633.25 ELEV.=1201.61' DESC.=CUT 'X'
BM #4 N=163091.98 E=2140741.65 ELEV.=1197.86' DESC.=MAG NAIL	BM #5 N=162646.82 E=2140766.79 ELEV.=1201.12' DESC.=CUT 'X'	BM #6 N=162595.34 E=2140819.02 ELEV.=1202.05' DESC.=MAG NAIL
BM #7 N=162427.17 E=2140863.15 ELEV.=1200.92' DESC.=CUT 'X'	BM #8 N=162737.19 E=2141506.04 ELEV.=1202.88' DESC.=CUT 'X'	

LEGEND	
⊙ POWER POLE	⊙ GAS METER
⊙ LIGHT POLE	⊙ GAS VALVE
⊙ GUY ANCHOR	⊙ GAS MARKER
⊙ ELECTRIC METER	⊙ OIL PIPELINE MARKER
⊙ ELECTRIC BOX	⊙ MAIL BOX
⊙ ELEC. TRANSFORMER	⊙ SIGN
⊙ ELEC. MANHOLE	⊙ FLAG POLE
⊙ ELEC. PEDESTAL	⊙ FIRE HYDRANT
⊙ ELEC. PULL BOX	⊙ WATER MANHOLE
⊙ SPOT LIGHT	⊙ WATER VALVE
⊙ SANITARY SEWER MANHOLE	⊙ WATER METER
⊙ SANITARY SEWER CLEANOUT	⊙ DOWN SPOUT
⊙ STORM SEWER MANHOLE	⊙ AIR CONDITIONER
⊙ TELEPHONE RISER	⊙ TRAFFIC SIGNAL
⊙ TELEPHONE MANHOLE	⊙ TRAFFIC SIGNAL BOX
⊙ TELEPHONE MARKER	⊙ TRAFFIC SIGNAL PULL BOX
⊙ TELEPHONE PULL BOX	⊙ PEDESTRIAN CROSSING SIGNAL
⊙ FIBER OPTIC MARKER	⊙ GREASE TRAP
⊙ FIBER OPTIC PULL BOX	⊙ KEY PAD
⊙ CABLE TV PEDESTAL	⊙ SECTION CORNER
⊙ CABLE MARKER	⊙ QUARTER CORNER
⊙ CABLE TV PULL BOX	⊙ SET IRON PIN W/ CAP
⊙ IRRIGATION CONTROL VALVE	⊙ SET MAG NAIL W/ W/ASHER
⊙ SPRINKLER HEAD	⊙ FOUND MONUMENT
⊙ BOLLARD	⊙ RIGHT OF WAY MARKER
⊙ FIRE DEPARTMENT CONNECT	⊙ YARD HYDRANT/SPICKET
⊙ PROpane TANK	⊙ BENCHMARK
⊙ WATER LINE	⊙ SATELLITE DISH
⊙ GAS LINE	⊙ WELLHEAD
⊙ SANITARY SEWER LINE	⊙ CHAIN LINK FENCE
⊙ TELEPHONE LINE	⊙ WOOD PANEL FENCE
⊙ ELECTRIC LINE	⊙ MASONRY FENCE
⊙ OVERHEAD POWERLINE	⊙ IRON FENCE
⊙ BARBED WIRE FENCE	⊙ FIBER OPTIC LINE
	⊙ PROPERTY LINE
	⊙ LOT LINE
	⊙ EASEMENT LINE
	⊙ SECTION LINE
S.I.P. - SET IRON PIN	I.P. - IRON PIN
F.I.P. - FOUND IRON PIN	C.C.P. - CORRUGATED METAL PIPE
	R.C.P. - REINFORCED CONCRETE PIPE
	U.E. - UTILITY EASEMENT

NOTE:
1. AN EFFORT HAS BEEN MADE TO LOCATE AND SHOW APPROXIMATE LOCATION OF UNDERGROUND UTILITY LINES. BURIED UTILITIES ARE NOT NECESSARILY SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND PRESERVE ALL UTILITIES.
2. CONTRACTOR IS RESPONSIBLE FOR CONTRACTING ALL UTILITY COMPANIES WITHIN THE WORK ZONE PRIOR TO CONSTRUCTION.

**City of Midwest City
RELEASED FOR CONSTRUCTION**
[Signature]
7/30/24



Sheet List Table	
Sheet Number	Sheet Title
G1.0	TITLE SHEET
G1.1	GENERAL NOTES & PAY ITEMS
G1.2	GENERAL NOTES
C1.0	OVERALL LAYOUT PLAN
C2.0	LINE A OVERALL PLAN
C2.1	LINE A PLAN & PROFILE
C2.2	LINE A PLAN & PROFILE
C2.3	LINE A PLAN & PROFILE
C3.0	LINE B OVERALL PLAN
C3.1	LINE B PLAN & PROFILE
C3.2	LINE B PLAN & PROFILE
C3.3	LINE B PLAN & PROFILE
C3.4	LINE B PLAN & PROFILE
C3.5	LINE B PLAN & PROFILE
C4.0	LINE C OVERALL PLAN
C4.1	LINE C PLAN & PROFILE
C5.0	LINE D OVERALL PLAN
C5.1	LINE D PLAN & PROFILE
D6.0	CONSTRUCTION DETAILS
D6.1	CONSTRUCTION DETAILS

UTILITY LOCATION NUMBER
Contact these numbers and others specified in the plans prior to any use of excavators

840-5032
1-800-522-6543

This number is for information on the location of most underground utilities.

PROFESSIONAL ENGINEER
REGINA K. HALLGREN
7/30/2024
Exp: 5/31/2025

CONSTRUCTION INSPECTOR _____
CONTRACTOR _____
RECORD PLANS FILED _____

GOVERNMENT / UTILITY CONTACTS

ENTITY NAME	CONTACT	PHONE NUMBER
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MIDWEST CITY	DONNA AKIN OFFICE MANAGER	405-739-1064
ODOT	NEED CONTACT TITLE	NEED #
OG&E	NEED CONTACT TITLE	NEED #
ONG	NEED CONTACT TITLE	NEED #
AT&T	NEED CONTACT TITLE	NEED #

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BENCHMARKS

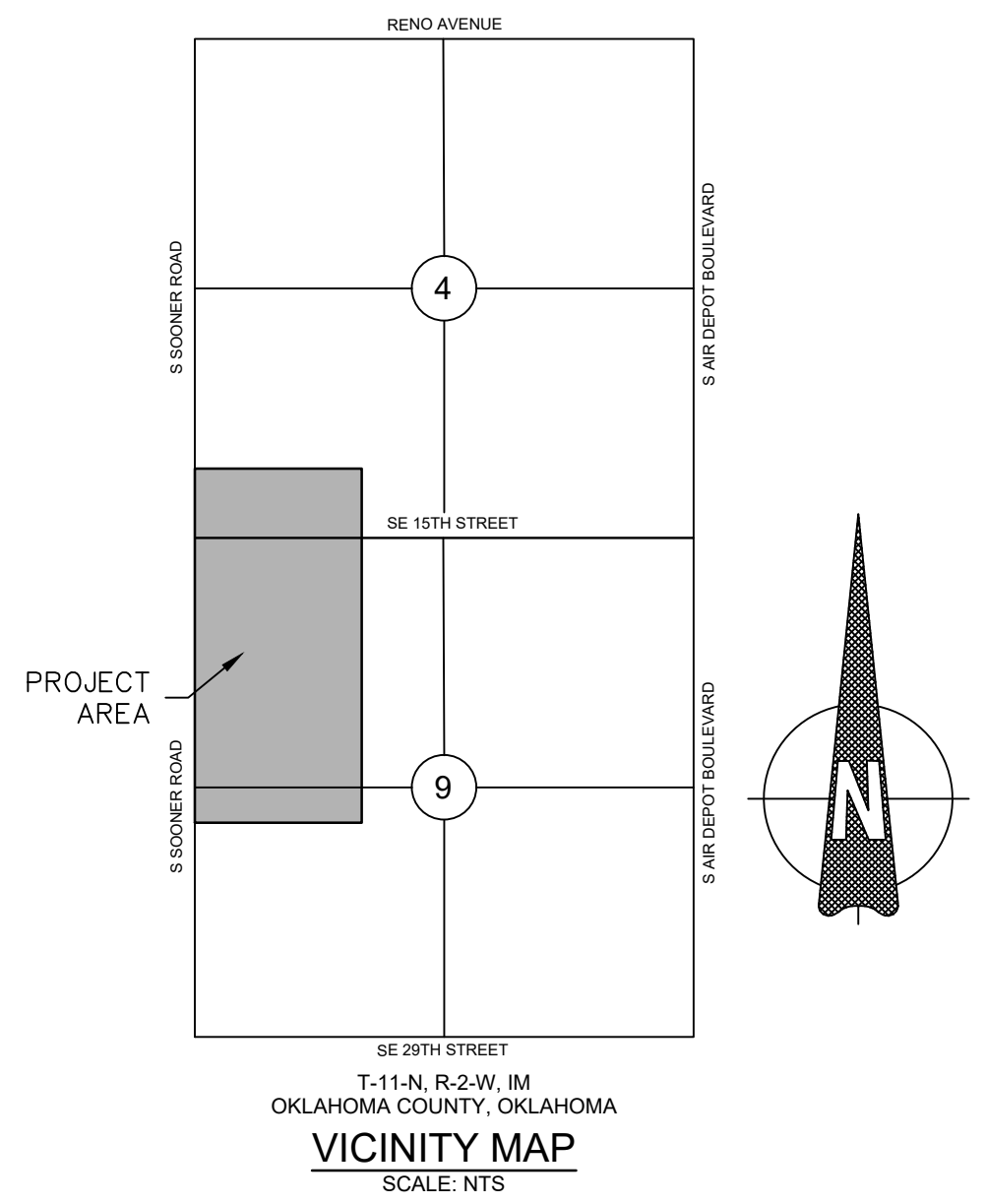
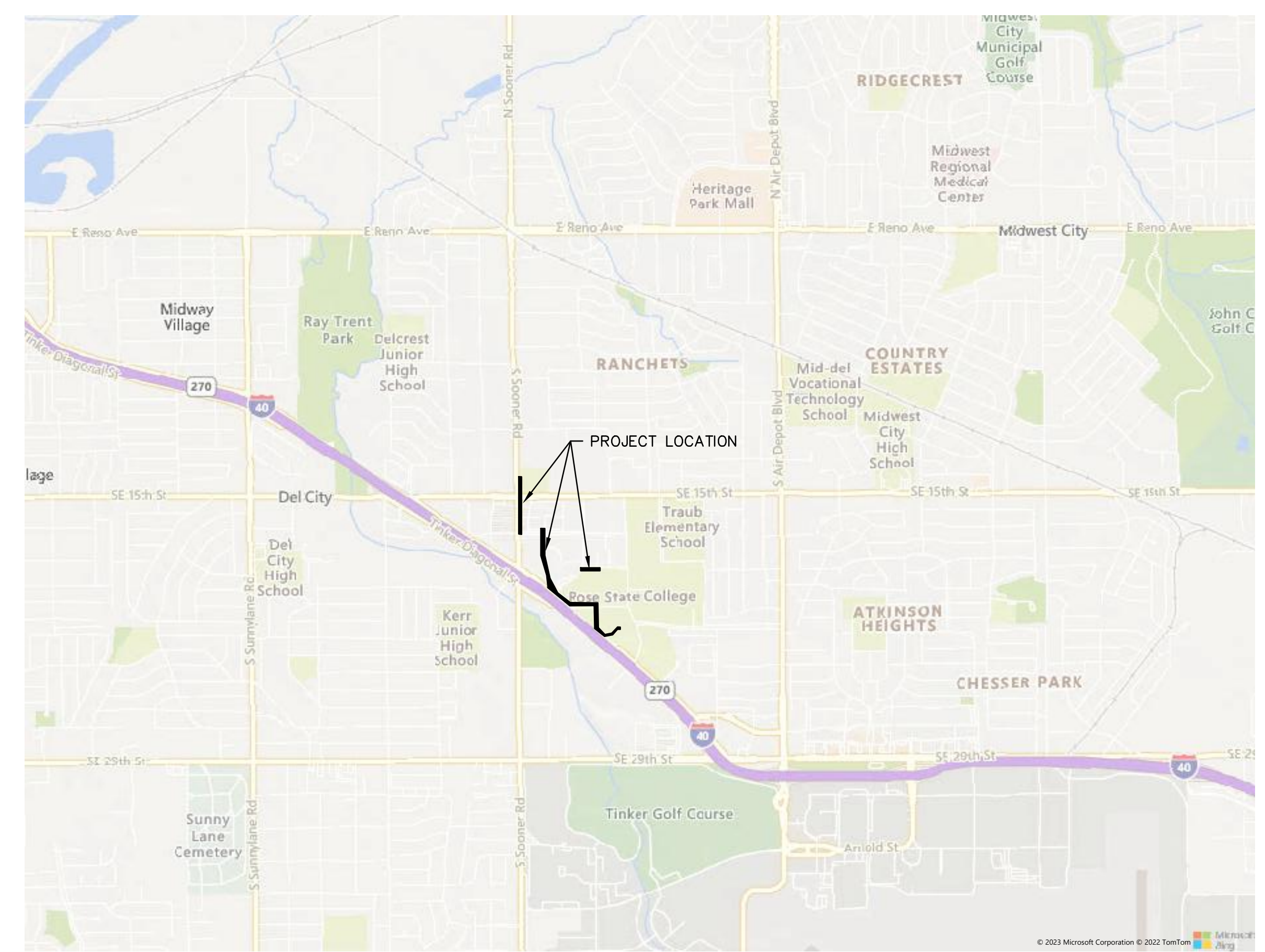
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LEGEND

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ELEC. PULL BOX	WATER MANHOLE
SPOT LIGHT	WATER VALVE
SANITARY SEWER MANHOLE	WATER METER
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STORM SEWER MANHOLE	AIR CONDITIONER
TELEPHONE RISER	TRAFFIC SIGNAL
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OVERHEAD POWERLINE	LOT LINE
BARBED WIRE FENCE	EASEMENT LINE
S.I.P.-SET IRON PIN	SECTION LINE
I.P.-IRON PIN	CGMP-CORRUGATED METAL PIPE
B/L-L-BUILDING LIMIT LINE	U/E-UTILITY EASEMENT
F.I.P.-FOUND IRON PIN	H/C-HANDICAP
RCP-REINFORCED CONCRETE PIPE	U/E-UTILITY EASEMENT

NOTE: ALL MONUMENTS SET ARE CAPPED 1/2" IRON PINS OR MAG NAILS WITH WASHERS BOTH BEING STAMPED "GOLDEN CA 7263" UNLESS NOTED OTHERWISE

PLAN OF PROPOSED SANITARY SEWER IMPROVEMENTS SOONER ROSE PROJECT NUMBER - 1111 SEC. 4 & SEC. 9, T11N, R2W, I.M. OKLAHOMA COUNTY, OKLAHOMA



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- CONTRACTOR IS RESPONSIBLE FOR CONTRACTING ALL UTILITY COMPANIES WITHIN THE WORK ZONE PRIOR TO CONSTRUCTION.

Permit Number: SL000055240427-R
 Date Received: July 22 2024

STATE OF OKLAHOMA
 Department of Environmental Quality
APPROVED
 July 22 2024
 Rocky W. Chen, P.E.
 Water Quality Division

 D. Adam Divine, P.E.
 Construction Permitting Section

THE CITY OF MIDWEST CITY

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UTILITY LOCATION NUMBER
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840-5032
1-800-522-6543

This number is for information on the location of most underground utilities.

CONSTRUCTION INSPECTOR: _____ CONTRACTOR: _____ RECORD PLANS FILED: _____	
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GENERAL NOTES

- 1. ANY CHANGES FROM APPROVED PLANS SHALL BE SUBMITTED TO THE CITY OF MIDWEST CITY FOR WRITTEN APPROVAL PRIOR TO INSTALLATION.
2. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING SAFETY, HEALTH AND SANITATION.
3. NOT ALL EXISTING UTILITIES MAY BE SHOWN ON THIS PLAN.
4. CONTRACTOR SHALL REPAIR ALL DAMAGED AND OR DISTURBED PROPERTY AND RIGHT-OF-WAY TO CONDITIONS EQUAL OR BETTER THAN THOSE PRIOR TO CONSTRUCTION.
5. CONTRACTOR SHALL CONTACT CITY OF MIDWEST CITY REGARDING LICENSING, INSURANCE VERIFICATION AND BONDING REQUIREMENTS.
6. THE CONTRACTOR SHALL OBTAIN AND MAINTAIN ON-SITE A COPY OF ALL REQUIRED FEDERAL STATE OR LOCAL PERMITS, AUTHORIZATIONS OR APPROVALS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE CONSTRUCTION PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS.
8. ANY PIPE UNDER PAVING SHALL BE BACKFILLED WITH TYPE A AGGREGATE BASE.
9. ALL FILL AREAS TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
10. ANY ITEM NOT INCLUDED IN QUANTITIES SHALL BE CONSIDERED INCIDENTAL TO THE EXISTING ITEMS AND INCLUDED IN THE CONTRACTORS BID.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL LANDSCAPING IN AS GOOD OR BETTER CONDITION AS EXISTING LANDSCAPING.
12. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND DEPTHS PRIOR TO CONSTRUCTION BY MEANS OF UTILITY SURVEY.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION STAKING.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GRADING ALL DISTURBED AREAS TO DRAIN AS GOOD OR BETTER THAN EXISTING CONDITIONS.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL UTILITIES, BOTH UNDERGROUND & OVERHEAD, EITHER PUBLIC OR PRIVATE, AS TO THEIR ACTUAL LOCATION PRIOR TO COMMENCING CONSTRUCTION.
16. ALL EXCAVATED MATERIAL NOT REQUIRED IN OTHER AREAS OF THE PROJECT, INCLUDING CONCRETE AND CURB REMOVAL, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE ENGINEER WITHOUT COST TO THE CITY.
17. THE CONTRACTOR SHALL WORK IN COOPERATION WITH THE CITY OF MIDWEST CITY TO ESTABLISH, INSTALL, MAINTAIN AND OPERATE COMPLETE, ADEQUATE AND SAFE TRAFFIC CONTROLS DURING THE ENTIRE CONSTRUCTION PERIOD.
18. THE CONTRACTOR SHALL NOTIFY ALL LANDOWNERS AT LEAST 48 HOURS PRIOR TO ENTERING EASEMENT AREAS.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH SURFACE AND SUB-SURFACE CONDITIONS.
20. DO NOT BREAK OUT THE EXISTING SEWER PIPE WITHIN ANY MANHOLE BUILD AROUND AN EXISTING SEWER UNTIL PROPER APPROVAL TO SO IS GIVEN BY THE OWNER OR OWNER'S REPRESENTATIVE.
21. AT ABANDONED MANHOLES AND SEWERS, PLUG ALL SEWERS AT MANHOLES, TEAR DOWN MANHOLES DOWN 3' BELOW FINISHED GROUND ELEVATION AND FILL BALANCE OF MANHOLES WITH APPROVED BACKFILL.
22. ALL ABANDONED MANHOLE RINGS AND LIDS SHALL BE THE PROPERTY OF THE MUNICIPALITY OR AUTHORITY UTILITY LINE MAINTENANCE WASTEWATER DEPARTMENT.
23. EXCAVATION AND BACKFILL NEAR MANHOLES SHALL BE EQUAL ON ALL SIDES OF THE MANHOLE.
24. GROUT SHALL BE NON-SHRINK EPOXY GROUT.
25. CONSTRUCTION SHALL MEET ALL ODEQ REQUIREMENTS INDICATED IN TITLE 252, CHAPTER 656.

- 26. THE CONTRACTOR SHALL EVACUATE THE TOP 12 INCHES OF TOPSOIL AND STOCKPILE IT SEPARATELY FROM GENERAL EXCAVATION.
27. NO TREES MAY BE REMOVED OUTSIDE THE ROAD RIGHT-OF-WAY OR EASEMENT.
28. CONTRACTOR SHALL DISPOSE OF ALL EXCESS MATERIAL, CONSTRUCTION, RUBBLE AND TRASH. DISPOSAL SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT.
29. ALL ROCK UNCOVERED OR MOVED BY CONSTRUCTION ACTIVITIES SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
30. THE CONTRACTOR MAY ACQUIRE TEMPORARY CONSTRUCTION EASEMENTS AT THE CONTRACTOR'S OWN COST, IF CONTRACTOR SO CHOOSES.
31. CONTRACTOR SHALL RECONSTRUCT IN PLACE, AND WITH LIKE MATERIALS, ANY DRIVES, ROADS, SIDEWALKS, IRRIGATION SYSTEMS, FENCES, UTILITY SERVICES, OR OTHER APPURTENANCES WHICH ARE REMOVED OR DAMAGED DURING CONSTRUCTION.
32. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT OF ALL POWER POLES WITH THE CONSTRUCTION WORKSPACE, OR WHERE TEMPORARY REMOVAL OF GUY WIRES IS NECESSARY FOR CONSTRUCTION.
33. THE DESIGN, INSPECTION AND MAINTENANCE OF THE EROSION PREVENTION MEASURES SHALL BE THE CONTRACTOR'S RESPONSIBILITY THROUGHOUT ALL PHASES OF CONSTRUCTION.
34. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS, DRIVEWAYS, AND SIDEWALKS ADJACENT TO THE PROJECT FREE OF MUD AND DEBRIS FROM THE CONSTRUCTION.
35. THE CONTRACTOR IS RESPONSIBLE FOR ALL JOB SITE SAFETY AND SHALL BE RESPONSIBLE FOR PREPARING A TRENCH SAFETY PLAN FOR THIS PROJECT.
36. THE CONTRACTOR SHALL VIDEO ALL IMPACTED PROPERTY WITH THE CONSTRUCTION LIMITS PRIOR TO WORK.
TRAFFIC AND ACCESS CONTROL NOTES
1. LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH THE PROJECT AT ALL TIMES.
2. THE CONTRACTOR MAY USE EXISTING ROADS FOR TRANSPORTING MATERIAL AND EQUIPMENT.
3. CONTRACTOR SHALL PROVIDE APPROPRIATE SIGNAGE BARRICADES, FLAGMEN, ETC.
4. ANY FENCES REMOVED OR DESTROYED DURING OR DUE TO CONSTRUCTION SHALL BE REPLACED TO EXISTING CONDITION.
5. CONTRACTOR SHALL COORDINATE AND COOPERATE WITH LAND OWNERS TO MAINTAIN ACCESS TO LANDOWNERS DRIVES.
6. CONTRACTOR SHALL SUBMIT THE TRAFFIC CONTROL PLAN TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO BEGINNING EACH PHASE OF THE PROJECT.
7. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE STATE STANDARDS (CURRENT EDITION) AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION).
8. THE FOLLOWING OKLAHOMA DEPARTMENT OF TRANSPORTATION (ODOT) STANDARDS ARE APPLICABLE TO THIS PROJECT:
a. TCS1-1-01
b. TCS2-1-00
c. TCS3-1-01
d. TCS4-1-01
e. TCS5-1-00
f. TCS6-1-02
g. TCS7-1-02
h. TCS8-1-00
i. TCS9-1-01
j. TCS10-1-00
k. TCS11-1-01
l. TCS12-1-00
m. TCS13-1-00
n. TCS14-1-00
o. TCS15-1-00
p. TCS19-1-01
q. TCS20-1-00
9. THIS ITEM DOESN'T CONSIDER EXCAVATION FOR TRENCHING, OR BORE PIT EXCAVATION.
10. THIS ITEM SHALL INCLUDE ALL INCIDENTAL ELEMENTS FOR THE REMOVAL, PLUGGING OR REQUIRED LABOR TO DECOMMISSION THE EXISTING SEWER MAIN WHERE NECESSARY.
11. PAVING SHOULD BE REPLACED IN LIKE KIND.
12. THIS ITEM DOES NOT INCLUDE THE PIPE EMBEDMENT MATERIAL AROUND THE TRENCHED SECTIONS OF PIPE.
13. THIS ITEM IS A PART OF MANHOLE REHABILITATION.
14. THIS ITEM SHOULD INCLUDE EVERYTHING NECESSARY TO MAKE THE EXISTING STORM SEWER FUNCTION AFTER CONSTRUCTION.

PAY ITEM NOTES

- 1. THE COST OF SAW CUTTING AND ALL LABOR ASSOCIATE WITH THIS WORK SHALL BE INCLUDED IN THE PRICE OF THIS PAY ITEM.
2. CONTRACTOR SHALL TAKE PRECAUTIONS TO MINIMIZE DAMAGE TO TREES, SHRUBS, IRRIGATION SYSTEMS, EXISTING LANDSCAPING, SIDEWALKS, CURB AND GUTTER, DRIVEWAYS, SIDEWALKS, ETC.
3. COST OF FERTILIZING AND WATERING SHALL BE INCLUDED IN THE COST OF PAY ITEM "SOLID SLAB SODDING."
4. ALL DEMOLITION MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND ARE TO BE REMOVED FROM THE SITE.
5. ALL STAKING AND SURVEYING NECESSARY TO COMPLETELY CONSTRUCT ALL OF THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. CONTRACTOR SHALL COORDINATE THE BRACING OF UTILITY POLES AFFECTED BY TRENCHING CONDITIONS WITH THE UTILITY COMPANY.
7. CONTRACTOR SHALL FURNISH TEMPORARY FENCING WHERE REQUIRED.
8. CONTRACTOR TO LOCATE ALL UTILITY CROSSINGS AHEAD OF PIPE LAYING OR BORING SO THE CONFLICTS CAN BE ADJUSTED AS NECESSARY.
9. PAY ITEM SHALL INCLUDE THE COST OF REMOVING AND REPLACING VARIOUS STRUCTURES AND OBSTRUCTIONS.
10. ALL ABANDONED SEWER LINES LEFT IN PLACE SHALL BE GROUTED/PLUGGED WITH CONCRETE AT EACH LINE BREAK ONCE SALVAGEABLE FITTINGS ARE REMOVED.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL AND MAINTENANCE OF THE STORM WATER DRAINAGE FROM THE CONSTRUCTION SITE.
12. INSTALL TWO INCH STEEL VENT PIPE AT ROW LINE OF ALL CASINGS.
13. NEW SERVICES SHALL BE EXTENDED TO THE ROW OR EASEMENT LINE.
14. COPIES OF BOTH VIDEO INSPECTIONS SHALL BE PROVIDED TO THE CITY PRIOR TO ACCEPTANCE.
15. ALL CONSTRUCTION TRAFFIC CONTROL WILL BE IMPLEMENTED ACCORDING TO CONSTRUCTION PLANS, AND INSTALLED IN A MANNER APPROVED BY THE ENGINEER.
16. PVC PIPE SHALL HAVE AN ENTIRELY LIGHT COLOR (NATURAL, WHITE, GREEN, ETC.)
17. HDPE PIPE SHALL HAVE AN ENTIRELY LIGHT COLOR (NATURAL, WHITE, GREEN, ETC.)
18. CONCRETE USED FOR DRIVE REPLACEMENT AND PAVING PATCH SHALL BE 3,500 PSI HIGH EARLY STRENGTH CONCRETE.
19. CONTRACTOR TO TELEVISION INSPECT EXISTING LINES PRIOR TO CONSTRUCTION TO VERIFY SERVICE LINE PIPE SIZE AND LOCATION.
20. APPLIES TO ALL SERVICE RECONNECTIONS REGARDLESS OF SIZE, MATERIALS OR LENGTH.
21. STANDARD DEPTH FOR ALL MANHOLES SHALL BE 6'.
22. ALL CONSTRUCTION TO MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF MIDWEST CITY AND THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ OAC 252:656-5 SANITARY SEWER STANDARDS).
22.1. DEFLECTION TEST (OAC 252:656-5-5(a))
22.2. LEAKAGE TEST (OAC 252:656-5-5(b))
22.3. MANHOLE TEST (OAC 252:656-5-4(G)(7))
22.4. SEPARATION OF MAINS (OAC 252:656-5-4 (c))
23. THIS ITEM DOESN'T CONSIDER EXCAVATION FOR TRENCHING, OR BORE PIT EXCAVATION.
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SUMMARY OF QUANTITIES

Table with columns: ITEM #, ITEM, NOTE, UNIT, QUANTITY, AS-BUILT. Section: BASE BID. Includes items like EXCAVATION AND BACKFILL, PVC SDR-35 (BORING), TRENCHING, STEEL ENCASEMENT, etc.

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Table with columns: REV. NO., DATE, REVISIONS DESCRIPTION. Includes a vertical 'REVISIONS' label on the right side.

LMRK ENGINEERING logo and contact information: 7702 NW 12TH ST, OKLAHOMA CITY, OK 73142. CERTIFICATE OF AUTHORIZATION: 8667. EXPIRES 06/30/2025.

MIDWEST CITY SOONER ROSE SANITARY SEWER IMPROVEMENT PLANS GENERAL NOTES & PAY ITEMS

ISSUE FOR PERMIT stamp. Includes fields for status, date, and signatures: drawn by: SB, OACQ by: RK, date: 5/03/2024.

G1.1 stamp with OKIE811 logo and phone number: 918-243-8111. Website: www.okie811.com

STATE OF OKLAHOMA Department of Environmental Quality APPROVED July 22 2024 Rocky W. Clark, P.E. Water Quality Division Adam Davis, P.E. Construction Permitting Section

GENERAL CONSTRUCTION NOTES

- G1. The Contractor is responsible for the location of all utilities and must have all utilities located prior to commencing any excavation. The Contractor shall verify the invert and flowline elevations of all water lines, sanitary sewers, storm drains, drainage structures, and surface drainage courses prior to laying any new pipe. The Contractor must call OKIE at (405) 840-5032 to have all public utilities (water and sanitary sewer lines) and franchised utilities (electric lines, telephone cables, fiber optic lines, cable television, gas lines, and oil pipelines) located at least two (2) days prior to starting construction.
- G2. The Contractor is responsible for the protection of all utility lines and structures, whether shown or not, both public and private. Any damage to the utility line or structure, because of the Contractor's actions, shall be repaired solely at the Contractor's expense to a condition as good or better than that prior to the damage.
- G3. The Contractor must call 9-1-1 IMMEDIATELY if a natural gas pipeline is cut, damaged or otherwise disturbed. The Midwest City Fire Department and Oklahoma Natural Gas Company must inspect the pipe before work can resume at that location.
- G4. The Contractor must notify the following persons at least forty-eight (48) hours in advance of placing or removing any barricades or otherwise modifying existing traffic control devices or placing any temporary traffic control device:
 Engineer (405) 739-1215
 Construction Inspector (405) 739-1267
- G5. The Contractor must notify all affected city utility customers at least two (2) working days prior to anticipated service interruption during construction. Streets temporarily closed to through traffic during construction shall remain open to local traffic to the maximum extent practical during the work. Detour routes shall be furnished by the Engineer. The Contractor shall furnish and erect all detour signage as directed.
- G6. Where work is carried on, in, or adjacent to any street, alley, or public place, the Contractor shall, at his own expense, furnish and erect such barricades, fences, lights, and/or other protective barriers, and take such other precautionary measures for the protection of persons or property and of the work as are necessary. A sufficient number of barricades shall be erected to keep vehicles from being driven into any work under construction. Failure to comply with this requirement will result in the Engineer shutting down the work until the Contractor has provided the necessary protection. All such barricades and signs and the use thereof shall be in the strict compliance with the Manual on Uniform Traffic Control Devices, Part VI - Temporary Traffic Control
- G7. All construction materials and work shall conform to the applicable City of Midwest City and the Oklahoma Department of Transportation (ODOT) standards and specifications with the additional supplements, as referenced in the project documents.
- G8. All elevations shown are on the Mean Sea Level (M.S.L.) datum. All dimensions to curb are to the back of curb. All dimensions to street "centerlines" are to the centerline of the right-of-way or section line.
- G9. The Contractor shall develop and make all detail surveys needed for construction. The cost of the construction survey and staking shall be included in the price bid for other items of work.
- G10. All fences removed as a result of the Contractor's actions shall be replaced in kind with fencing equal to or better than the original fence. All costs for fence removal and replacement shall be included in the price bid for other items of work.
- G11. All work not classified as a contract pay item shall be considered incidental construction and the cost for such shall be included in the price bid for other items of work.
- G12. All removed salvageable items shall remain the property of the City and shall be stockpiled in an area within the project limits designated by the Engineer for collection by city forces.
- G13. All ditches disturbed during construction shall be reshaped and sloped to drain. Solid slab sod shall be used in all areas where solid has been exposed and positive means of sod stabilization shall be used to prevent displacement of sod by storm waters.
- G14. Erosion control devices in the form of sediment fences are required at driveway culverts, street culverts, drainage structures, storm sewer manholes, and sanitary sewer manholes located in ditches where soil has been disturbed. Those items shall be placed as directed by the Engineer and the cost shall be included in other items.
- G15. Sediment control for utility construction is required. Trenches must be backfilled at the end of each day's work. No more trench shall be opened than can be completed in the same day unless temporary silt fence is placed immediately downstream of any area intended to remain disturbed for more than one day. Excavated materials shall be placed on the high side of the trench.
- G16. City personnel are not permitted to enter any trench or excavation more than five (5) feet deep, for any reason, unless it is sloped or shored in accordance with 29 CFR 1926 OSHA subpart P, "Excavation and Trenches."
- G17. All disturbed, unpaved areas within easements and right-of-way shall be seeded, fertilized, and watered in accordance with ODOT specifications section 232, "Seeding", as required under the "Revegetation" pay item if provided or as noted otherwise on the plans. Seeded areas shall be repaired and maintained until all portions of the project are complete and approved for final acceptance. All other areas disturbed as a result of the Contractor's actions shall be restored in a manner acceptable to the Engineer to a condition as good or better than that prior to the disturbance at no expense to the City.
- G18. The City shall furnish bacteriological water line testing at no expense to the Contractor for municipally funded projects.

SANITARY SEWER LINE MATERIALS AND CONSTRUCTION NOTES

- SS1. All sanitary sewer lines shall be leakage tested in accordance with the requirements of Oklahoma Administrative Code (OAC) title 252, chapter 656, Water Pollution Control Construction Standards 252:656-5-5. All flexible sewer pipe shall be deflection tested after the final backfill has been in place for at least 30 days. Deflection tests shall be in accordance with 252:656-5-5(a). The mandrel used shall be furnished by the Midwest City Engineering Division. Leakage test shall be in accordance with 252:656-5-(b).
- SS2. Manhole steps are not required and shall not be installed. Ladders in lieu of manhole steps are not required.
- SS3. Watertight frames and covers shall be provided on all manholes. All interior manhole surfaces shall be protected against corrosion using a coal tar epoxy lining or an approved equal.
- SS4. Manholes noted for demolition shall be removed in their entirety. All sewers entering and leaving demolished manholes noted to be abandoned, shall be removed to the nearest pipe joint outside the manhole or to a point 10 feet from the manhole, whichever is less, and permanently plugged with concrete. All sewer pipe plugs must be watertight. Frames and covers from demolished manholes shall remain the property of the city.
- SS5. Granular backfill shall be placed in all trenches up to ground level where sewer lines cross below proposed or existing pavements. Pavement cuts shall be restored in accordance with the city's standard details.
- SS6. All new sewerline shall have been installed with a continuous tracer wire. Wire shall be a minimum of 12 gauge solid copper with thermoplastic insulation recommended for direct burial. Wire connectors shall be 3M DBR or approved equal, and be watertight. Access points for wire shall be located at all valve boxes, terminal ends, and every 500 ft of continuous runs. Access points shall consist of a box securely fastened to valves containing a loop of wire. Tracer wire shall be laid flat and securely affixed to pipe at 10 ft intervals. Contractor is required to test continuity of tracer wire in presence of inspector.
- SS7. Where Manhole is in pavement, it shall be constructed with a concrete apron. Also required will be an in-ground test station. All tracer wire shall be routed into test station which will be traffic rated. Lid shall be ductile iron with an encapsulated magnet and be green in color. A standard valve box will not be acceptable.
- SS8. Sanitary Sewer Standards - Materials - Manholes
 In accordance with OAC 252:656-5-3(d), the use of bricks and/or concrete blocks in manhole construction is prohibited.
- SS9. Sanitary Sewer Standards - Construction Standards - Sewer
 In accordance with OAC 252:656-5-4(a), install metal tracer wire with all non-metallic pipe and color code all underground installed pipe.
- SS10. Sanitary Sewer Standards - Construction Standards - Watertight Covers
 In accordance with OAC 252:656-5-4(g)(5), use watertight covers on manholes with rim elevations below the 100-year flood elevation, or otherwise subject to surface storm water submergence.
- SS11. Sanitary Sewer Standards - Construction Standards - Manholes - Leakage Tests
 In accordance with OAC 252:656-5-4(g)(7), conduct leakage tests on all new manholes in accordance with latest version of ASTM C969 or C1244.
- SS12. Sanitary Sewer Standards - Tests - Leakage Test
 In accordance with OAC 252:656-5-5(b), leakage tests are required for all gravity lines. Hydrostatic tests must be in accordance with the ASTM standard for the test to be used. Use a 2-foot test head and leakage inward or outward must not exceed 10 gallons per inch of pipe diameter per mile per day. The procedures listed in the Handbook of PVC Pipe, Uni-Bell PVC Pipe Association, 2001 may be used for PVC pipe.

PAVING CONSTRUCTION NOTES

- P1. All construction and materials shall be in accordance with the "Standard Specifications for Construction of Public Improvements" Midwest City, Oklahoma and shall be under the supervision of the development services department.
- P2. Any construction items that are not listed in the summary of quantities shall be considered incidental construction items. The cost of incidental construction items shall be included in the cost of other bid items.
- P3. Paving subgrade shall be compacted to a density of at least 95% of the minimum dry density obtained by the standard compaction test (ASTM D-698). Test reports shall be submitted to the Midwest City Engineer's office.
- P4. Refer to the standard typical sections for concrete paving design standards sheet for residential collector street paving.
- P5. The Contractor shall be responsible for contacting and coordinating with all public or private utility companies in the vicinity of construction.
- P6. The Contractor shall be responsible for furnishing and maintaining construction traffic control signs and devices as required by the City of Midwest City and the latest edition of Part VI of the Manual of Uniform Traffic Control Devices (M.U.T.C.D.).
- P7. The Contractor shall be responsible for the replacement or repair of traffic control devices damaged due to construction. The Contractor shall coordinate all work through the City of Midwest City Engineer. New materials shall be submitted for review and approval prior to use.
- P8. Unless otherwise specified, the Contractor shall be responsible for his own construction staking.
- P9. All pavement removal contiguous to pavement remaining shall be sawed in straight lines to the full depth of the existing pavement. All debris from the removal operations shall be removed from the site at the time of excavation. Stockpiling of debris will not be permitted.
- P10. In areas of excavation, the subgrade shall be scarified to the depth shown on the detail, and recompacted to a dry density of at least 95% of the maximum dry density obtained by the standard compaction test (ASTM D-698) at a water content within 3% of optimum.
- P11. Unless otherwise stated in the general conditions, the Contractor shall be responsible for all testing. The results of the test shall be forwarded to the engineer for his review and approval. The soils laboratory shall determine the suitability of existing on site material prior to beginning any fill operations.
- P12. Sod shall be placed 18" behind the curb for erosion protection.

CASING SIZE TABLE	
NOMINAL INSIDE PIPE DIA.	CASING SIZE INSIDE DIA.
4	8 - 10
6	10 - 12
8	14 - 16
10	16 - 18
12	18 - 20
15	20 - 22
18	24 - 26
24	31 - 33

STATE OF OKLAHOMA
 Department of Environmental Quality
 APPROVED
 July 22 2024
 Rocky W. Chen, P.E.
 Water Quality Division
 D. Adam D'Vine, P.E.
 Construction Permitting Section

GENERAL CONSTRUCTION NOTES
 MIDWEST CITY

ENGINEERING AND CONSTRUCTION SERVICES
 DEPARTMENT

REV. NO.	DATE	REVISIONS DESCRIPTION



MIDWEST CITY
 SOONER ROSE SANITARY SEWER
 IMPROVEMENT PLANS
 GENERAL NOTES

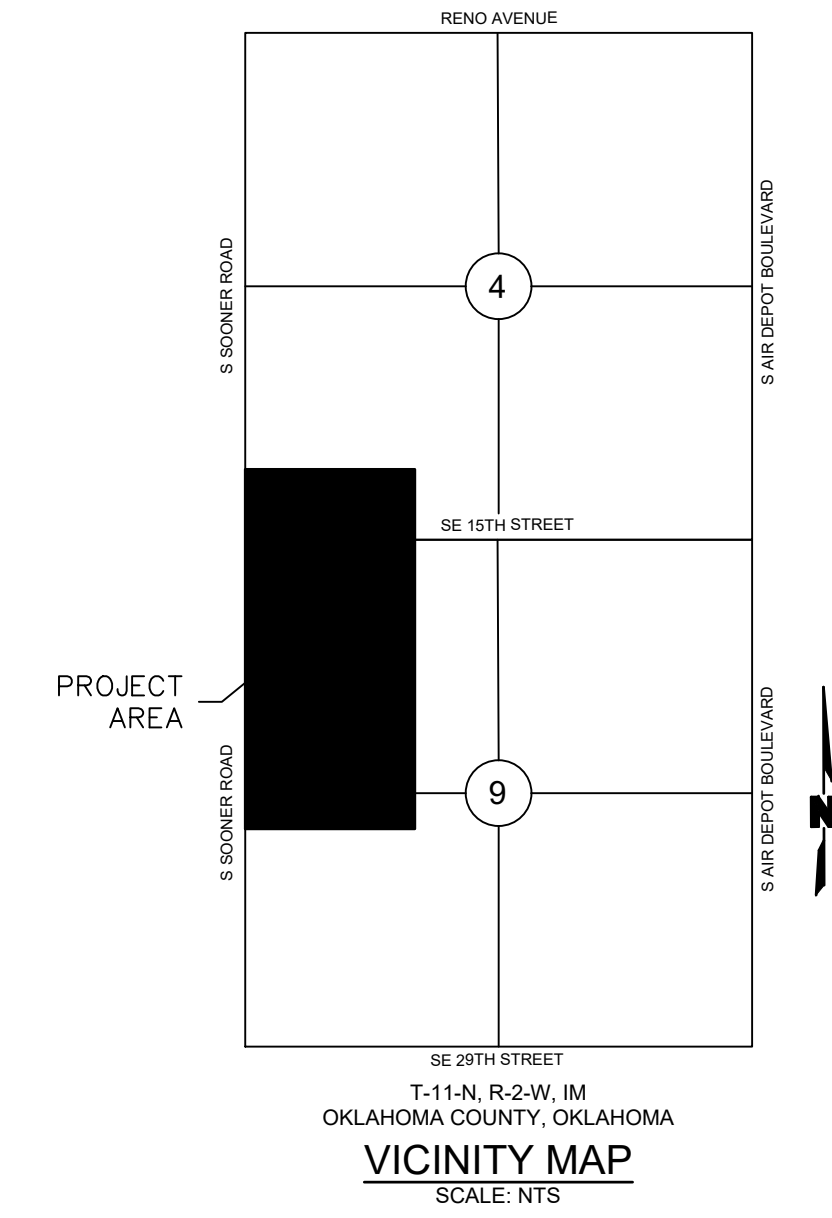
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ISSUE FOR PERMIT

drawn by: SB
 QAQC by: RK
 date: 5/03/2024

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 01-2023-002



REVISIONS



REV. NO.	DATE	REVISIONS DESCRIPTION

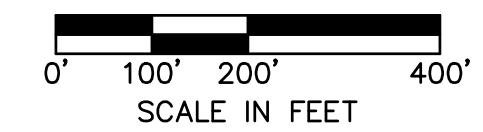
REVISIONS

LMRK
ENGINEERING
7232 NW 129TH ST.
OKLAHOMA CITY, OK 73142
CERTIFICATE OF AUTHORIZATION: 8667
EXPIRES 06/30/2025

MIDWEST CITY
SOONER ROSE SANITARY SEWER
IMPROVEMENT PLANS
OVERALL LAYOUT PLAN

status:
ISSUE FOR PERMIT

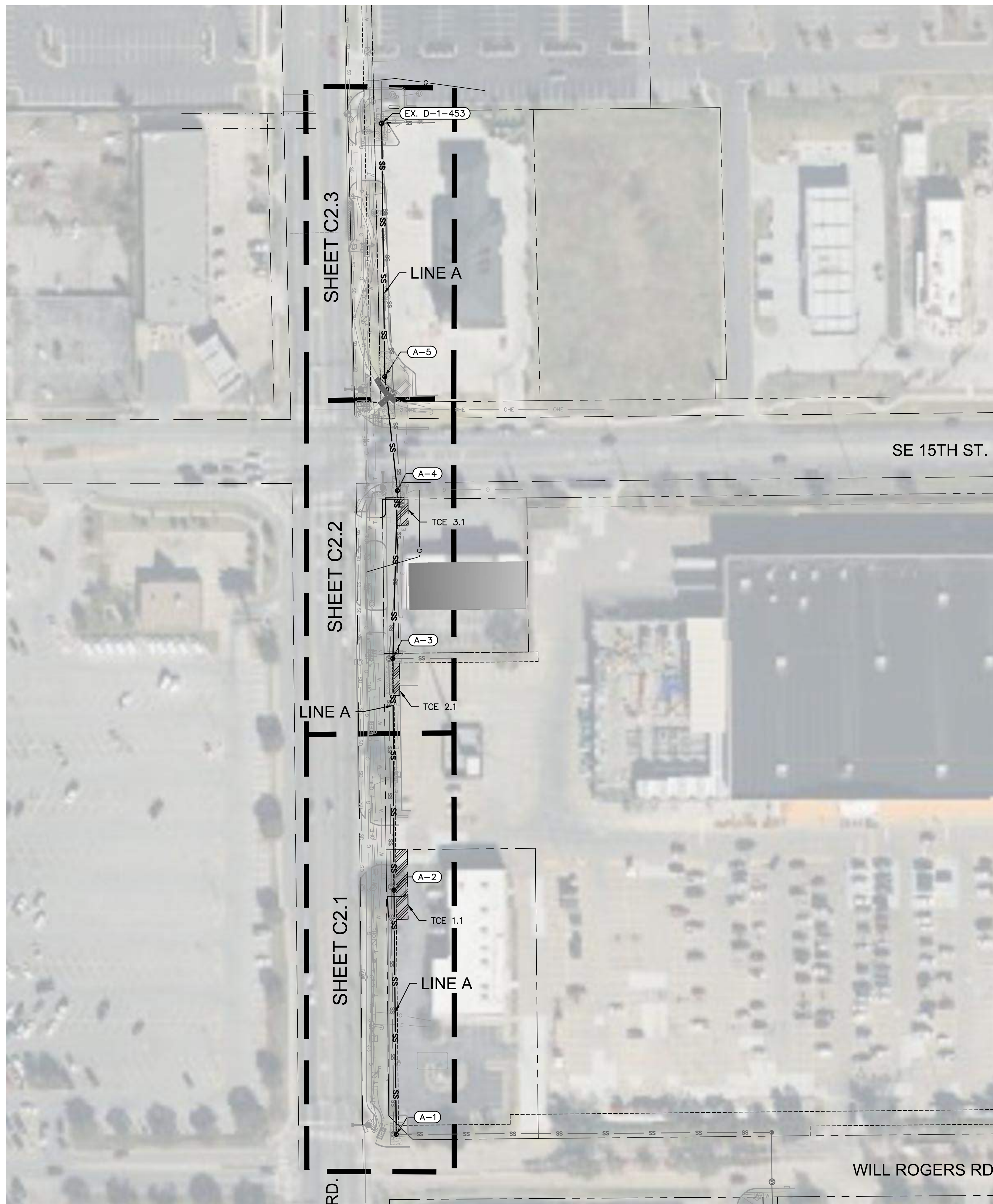
drawn by: SB
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date: 5/03/2024



STATE OF OKLAHOMA
Department of Environmental Quality
APPROVED
July 22 2024
Rocky W. Chen, P.E.
Water Quality Division
D. Adam Devine, P.E.
Construction Permitting Section

C1.0
01-2023-002

STRUCTURES	
ID	DESCRIPTION
A-1	PROPOSED MANHOLE 0+00 - LINE A RIM= 1207.66 INV IN = 1194.61 (12" PVC) INV OUT = 1194.51 (8" PVC) N: 163490.713; E: 2140244.848
A-2	PROPOSED MANHOLE 2+51.45 - LINE A RIM= 1206.96 INV IN = 1195.26 (12" PVC) INV OUT = 1195.16 (12" PVC) N: 163742.155; E: 2140242.558
A-3	PROPOSED MANHOLE 4+90.10 - LINE A RIM= 1203.43 INV IN = 1195.89 (12" PVC) INV IN = 1196.39 (8" PVC) INV OUT = 1195.79 (12" PVC) N: 163980.802; E: 2140241.415
A-4	PROPOSED MANHOLE 6+63.08 - LINE A RIM= 1203.62 INV IN = 1196.60 (8" PVC) INV OUT = 1196.27 (12" PVC) N: 164153.715; E: 2140245.993
A-5	PROPOSED MANHOLE 7+81.23 - LINE A RIM= 1204.15 INV IN = 1197.27 (8" PVC) INV OUT = 1197.17 (8" PVC) N: 164271.155; E: 2140233.054
EX. D-1-453	EXISTING MANHOLE TO BE REHABBED 10+42.28 - LINE A RIM= 1206.45 INV IN = 1198.65 (8" PVC) INV IN = 1198.75 (8" PVC) INV OUT = 1198.55 (8" PVC) N: 164532.192; E: 2140229.783



LINE A (BASE BID)				
ITEM #	ITEM	NOTE	UNIT	QUANTITY
1	EXCAVATION AND BACKFILL, UNCLASSIFIED	6, 23	CY	150
2	8" PVC SDR-35 (BORING)	8, 17	LF	287
3	12" PVC SDR-35 (BORING)	8, 17	LF	530
4	15" PVC SDR-35 (BORING)	8, 17	LF	-
5	8" PVC SDR-35 (TRENCHING)	6, 8, 16	LF	93
6	12" PVC SDR-35 (TRENCHING)	6, 8, 16	LF	134
7	15" PVC SDR-35 (TRENCHING)	6, 8, 16	LF	-
8	14" STEEL ENCASUREMENT	12	LF	287
9	20" STEEL ENCASUREMENT	12	LF	530
10	24" STEEL ENCASUREMENT	12	LF	-
11	SERVICE CONNECTION	13, 20	EA	5
12	STANDARD 4' DIAMETER MANHOLE	10, 21	EA	5
13	CEMENTITIOUS MANHOLE COATING	27	VF	8
14	NEW MANHOLE FRAME, COVER, AND SEAL	27	EA	1
15	REPLACE BENCH AND TROUGH	27	EA	1
16	AGGREGATE BASE TYPE "A"	26	CY	300
17	COMBINED CURB & GUTTER 6" BARRIER	1	LF	95
18	SIDEWALK REMOVAL & REPLACEMENT	1, 25	SY	23
19	PAVING REMOVAL & REPLACEMENT	1, 25	SY	103
20	SOLID SLAB SODDING	3	SY	270
21	EXTRA DEPTH MANHOLE		VF	19
22	TESTING	22	LS	1
23	BYPASS PUMPING	5	LS	1
24	CONSTRUCTION STAKING	5	LS	1
25	LEAKAGE TESTING	22	LS	1
26	DEFLECTION TEST	22	LS	1
27	TRAFFIC CONTROL	15	LS	1
28	TEMPORARY EROSION AND SEDIMENT CONTROL	11	LS	1
29	PRE-INSTALLATION VIDEO INSPECTION	14, 19	LF	1044
30	POST-INSTALLATION VIDEO INSPECTION	14	LF	1044
31	MOBILIZATION		LS	1
32	CLEARING AND RESTORATION	2, 4, 7, 9	LS	1
33	REMOVAL OR ABANDONMENT OF EX. SEWER	24	LS	1

REV. NO.	DATE	REVISIONS DESCRIPTION

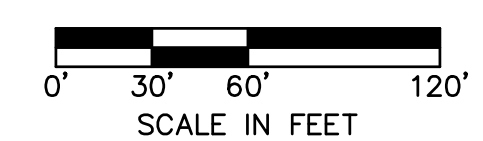
LMRK
ENGINEERING
7703 NW 129TH ST.
OKLAHOMA CITY, OK 73142
CERTIFICATE OF AUTHORIZATION: 8667
EXPIRES 06/30/2025

MIDWEST CITY
SOONER ROSE SANITARY SEWER
IMPROVEMENT PLANS
LINE A OVERALL PLAN

status:
ISSUE FOR PERMIT

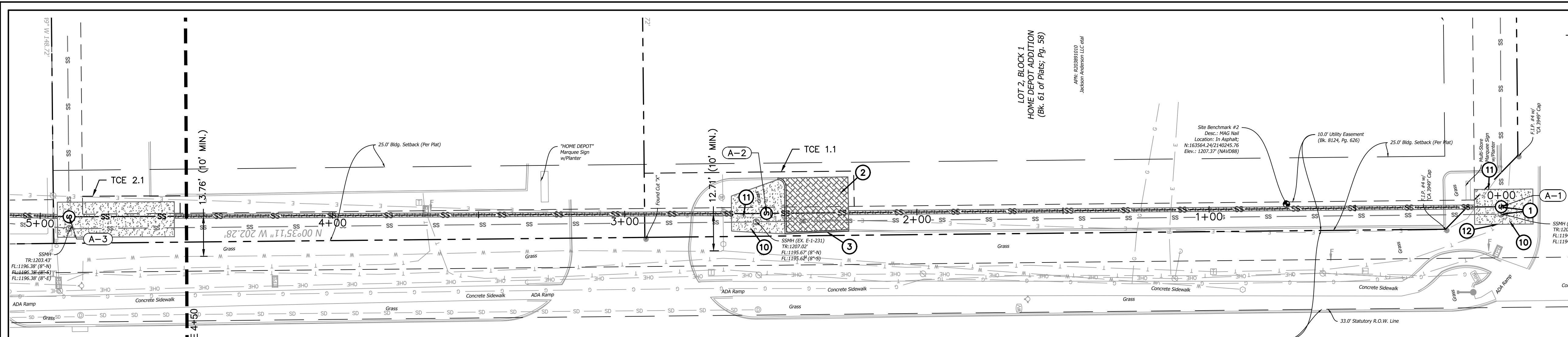
drawn by: SB
QA/QC by: RK
date: 5/03/2024

STATE OF OKLAHOMA
Department of Environmental Quality
APPROVED
July 22 2024
Rocky W. Chen, P.E.
Water Quality Division
D. Adam Devine, P.E.
Construction Permitting Section

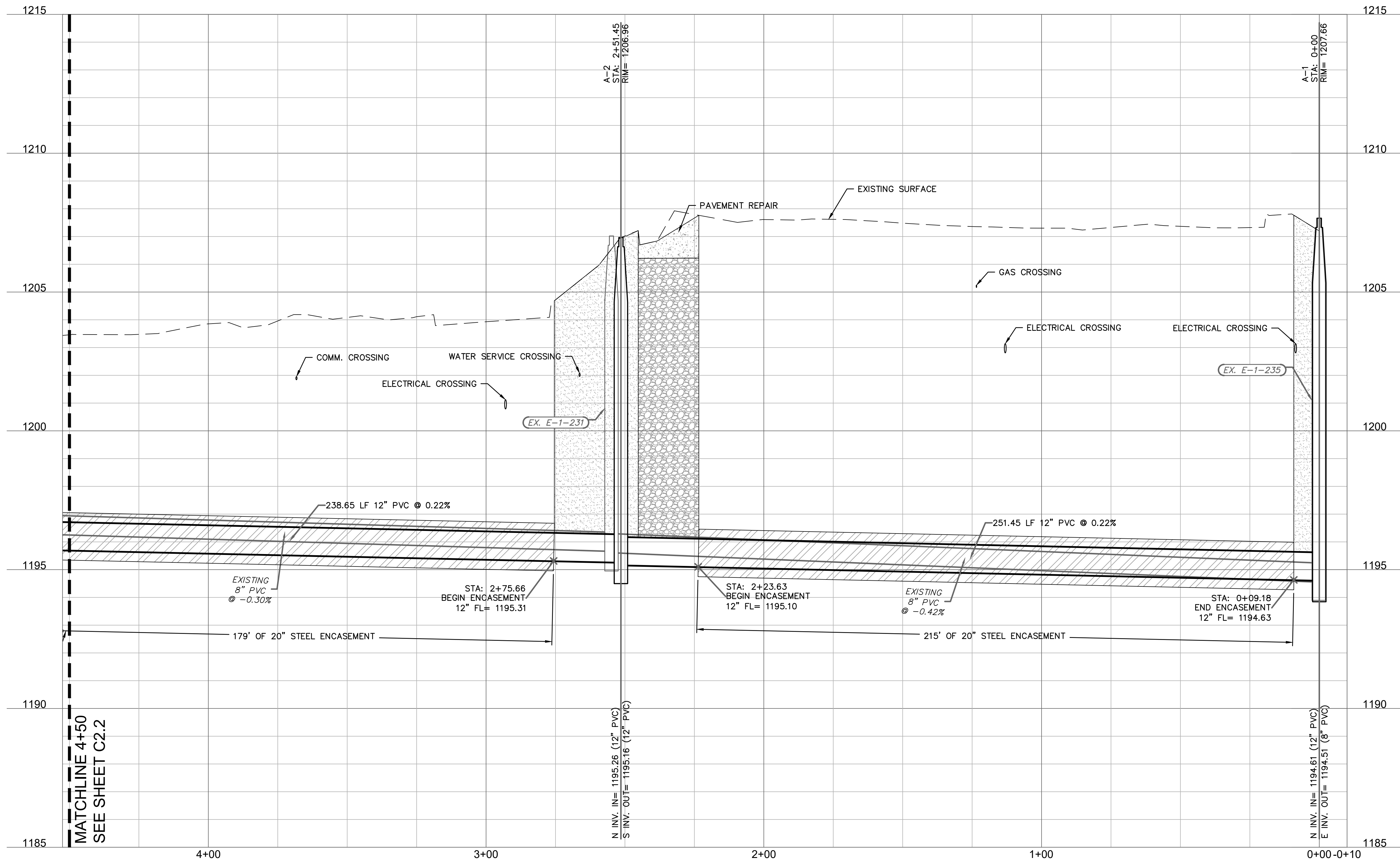


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01-2023-002

REVISIONS



SOONER ROAD



- KEYNOTES:**
1. INSTALL MANHOLE A-1 ON EXISTING SANITARY SEWER LINE. REMOVE EXISTING MANHOLE E-1-235.
 2. REMOVE AND REPLACE 44 SY OF ASPHALT PAVING FOR EXCAVATION.
 3. REMOVE AND REPLACE 42 LF OF CONCRETE CURB FOR EXCAVATION.
 4. REMOVE AND REPLACE 56 SY OF ASPHALT PAVING FOR EXCAVATION.
 5. REMOVE AND REPLACE 43 LF OF CONCRETE CURB FOR EXCAVATION.
 6. REMOVE AND REPLACE 23 SY OF CONCRETE SIDEWALK.
 7. REPAIR LANDSCAPING AND ANY IRRIGATION IMPACTED IN EXCAVATION.
 8. REMOVE AND REPLACE 3 SY OF ASPHALT PAVING FOR EXCAVATION.
 9. REMOVE AND REPLACE 10 LF OF CONCRETE CURB FOR EXCAVATION.
 10. SOLID SLAB SOD OVER DISTURBED AREA.
 11. ELECTRICAL LINE TO BE ACCOUNTED FOR AND RELOCATED, OR SUPPORTED, AS NECESSARY FOR CONSTRUCTION.
 12. COMMUNICATION LINE TO BE ACCOUNTED FOR AND RELOCATED, OR SUPPORTED, AS NECESSARY FOR CONSTRUCTION.
 13. GAS LINE TO BE RELOCATED PRIOR TO CONSTRUCTION BY OTHERS.

- NOTES:**
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STATE OF OKLAHOMA
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July 22 2024
Rocky W. Chen, P.E.
Water Quality Division
D. Adam Divine, P.E.
Construction Permitting Section

SCALE: 1"=20' HORIZ.
SCALE: 1"=5' VERT.



REV. NO.	DATE	REVISIONS DESCRIPTION

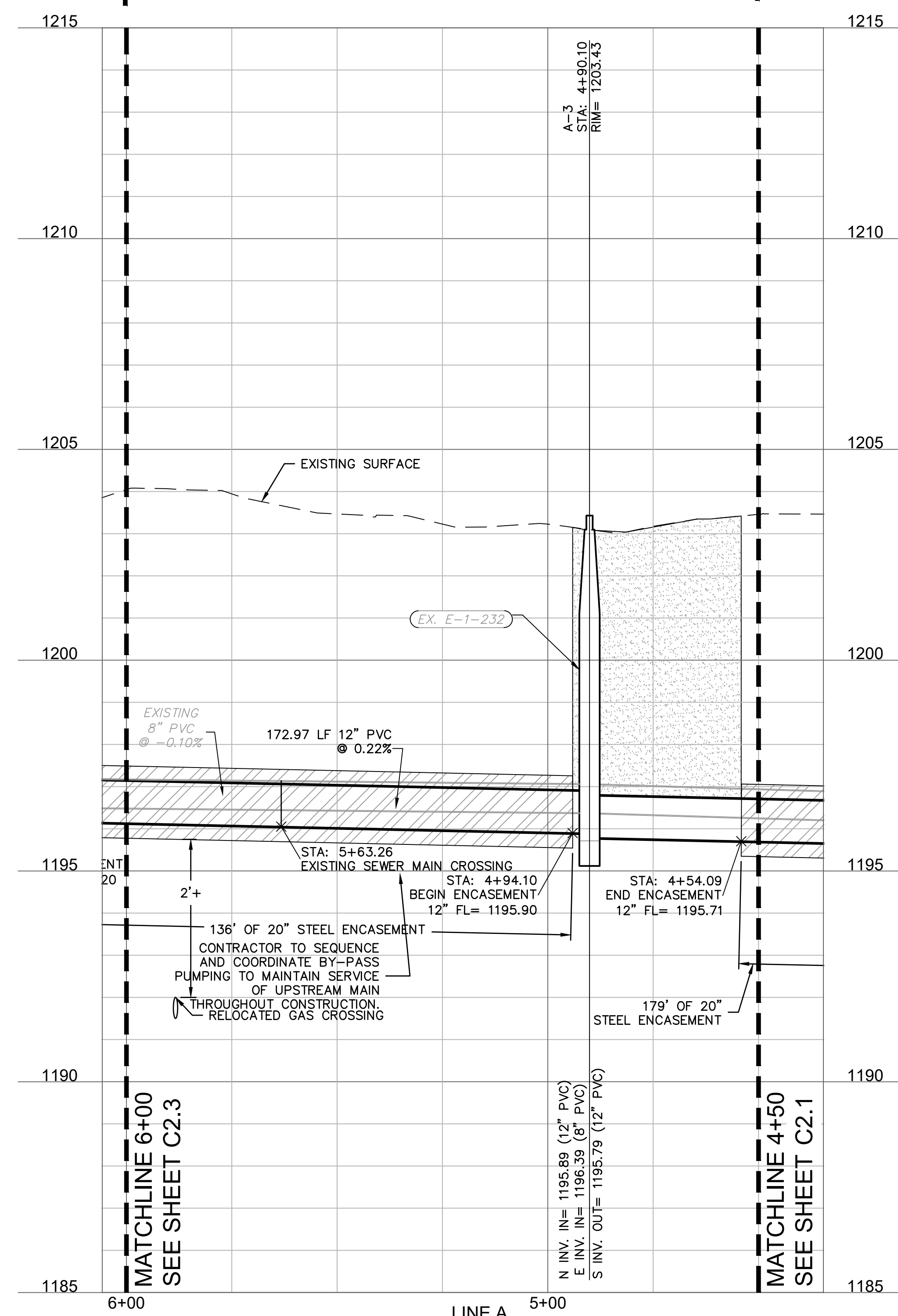
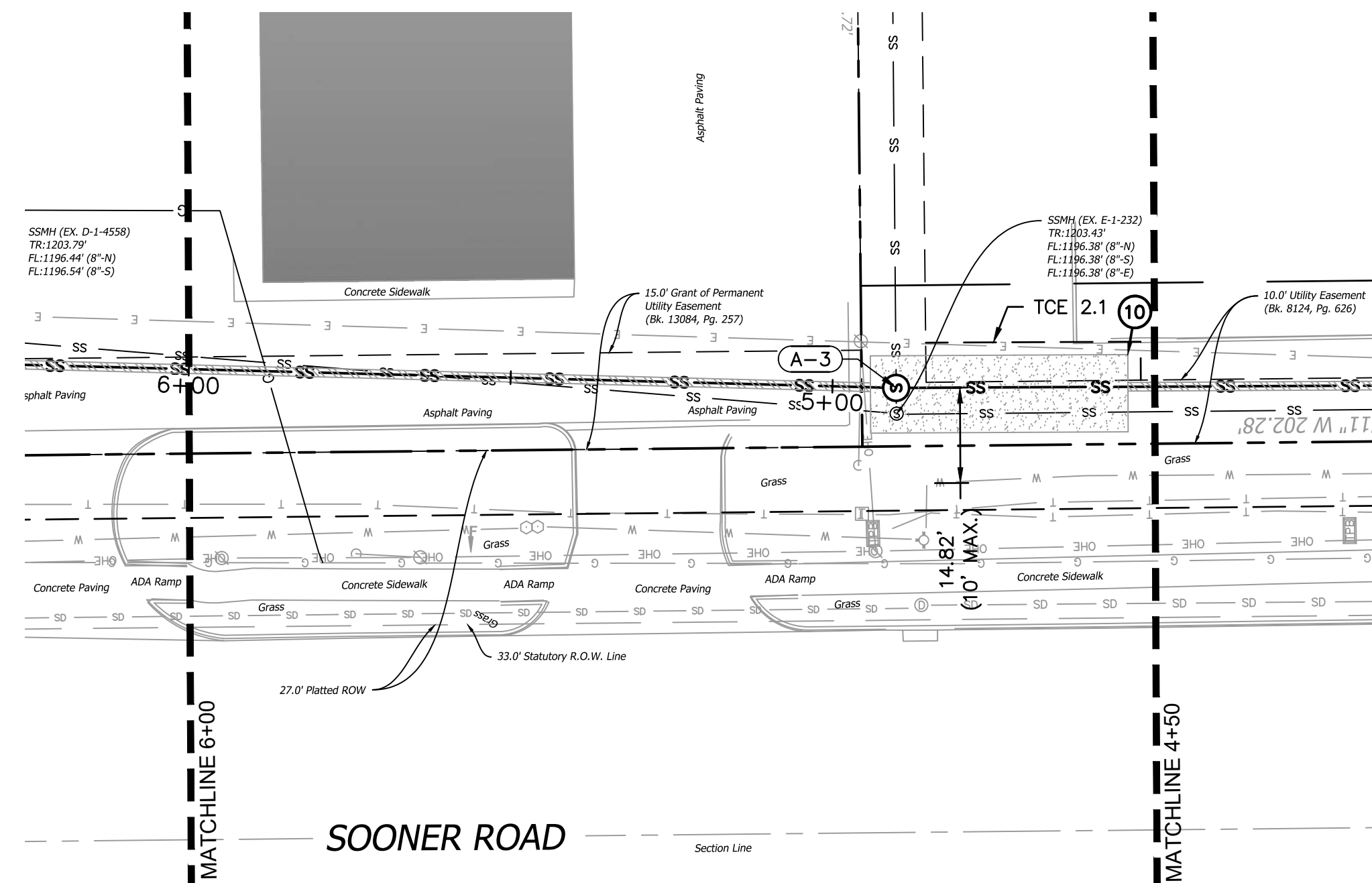
LMRK ENGINEERING
7713 NW 129TH ST.
OKLAHOMA CITY, OK 73142
CERTIFICATE OF AUTHORIZATION: 8667
EXPIRES 06/30/2025

MIDWEST CITY
SOONER ROSE SANITARY SEWER
IMPROVEMENT PLANS
LINE A PLAN & PROFILE

ISSUE FOR PERMIT
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QA/QC by: RK
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REVISIONS

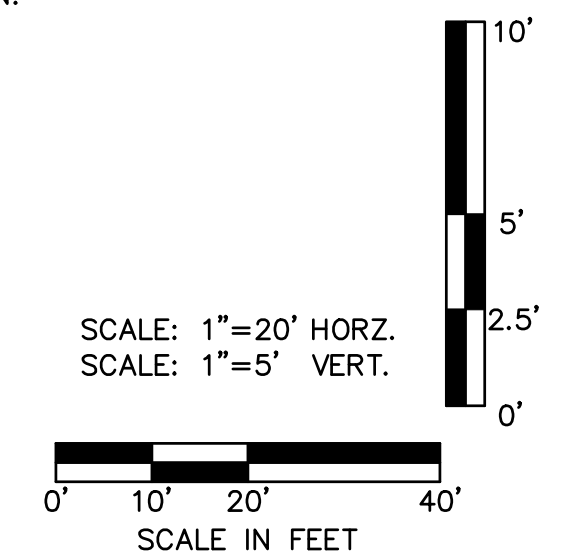


KEYNOTES:

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STATE OF OKLAHOMA
Department of Environmental Quality
APPROVED
July 22 2024
Rocky W. Chen, P.E.
Water Quality Division
Alan Davis
D. Adam Doolittle, P.E.
Construction Permitting Section



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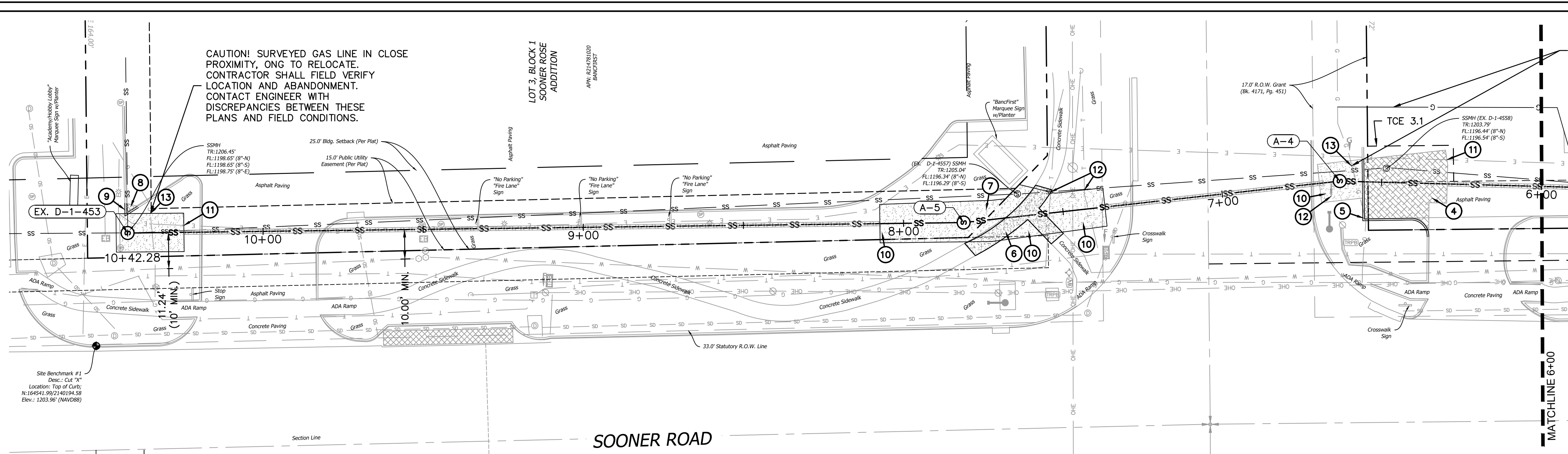
MIDWEST CITY
SOONER ROSE SANITARY SEWER
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LINE A PLAN & PROFILE

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01-2023-002

REVISIONS



CAUTION! SURVEYED GAS LINE IN CLOSE PROXIMITY, ONG TO RELOCATE. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ABANDONMENT. CONTACT ENGINEER WITH DISCREPANCIES BETWEEN THESE PLANS AND FIELD CONDITIONS.

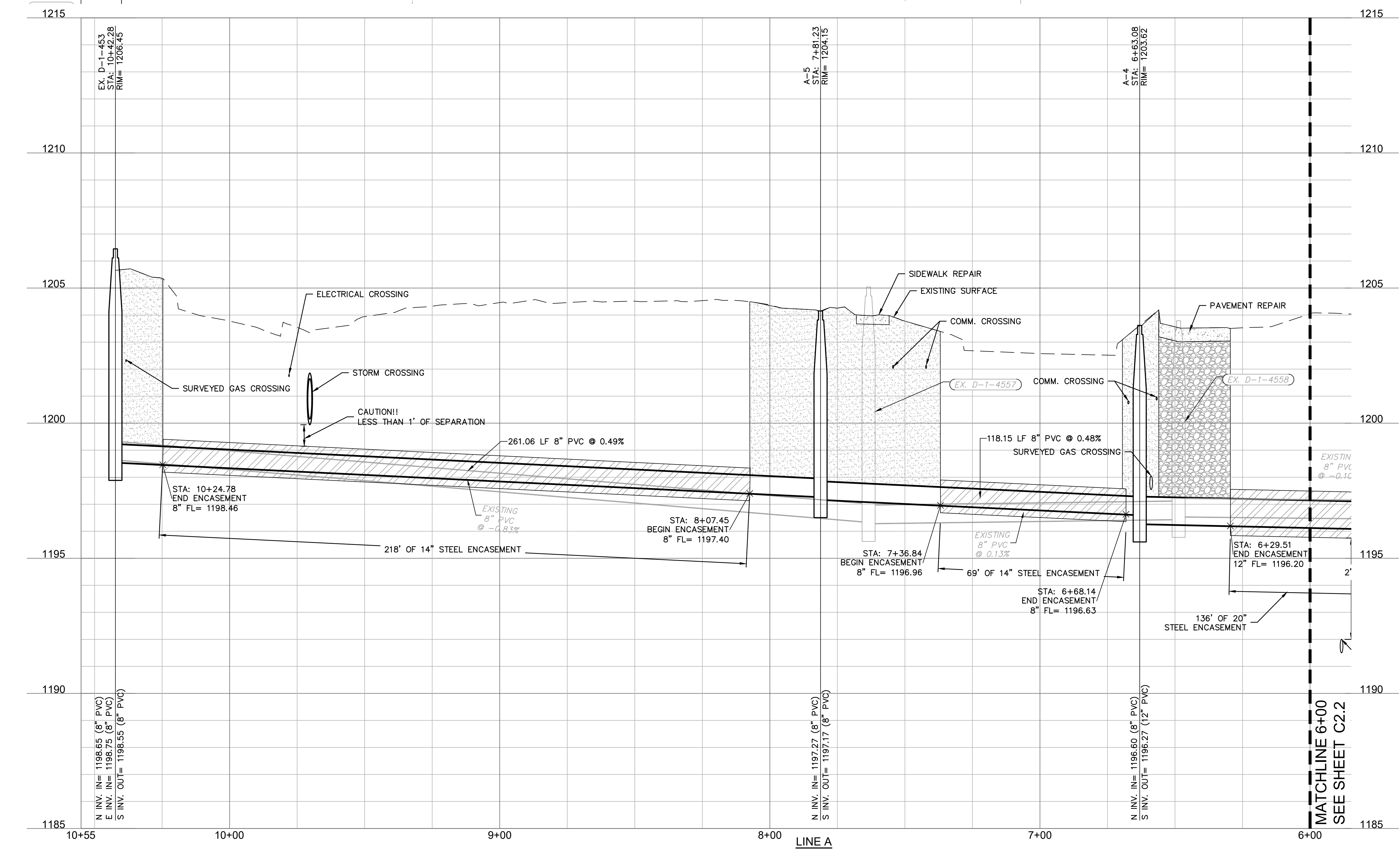
LOT 3, BLOCK 1
SOONER ROSE
ADDITION

KEYNOTES:

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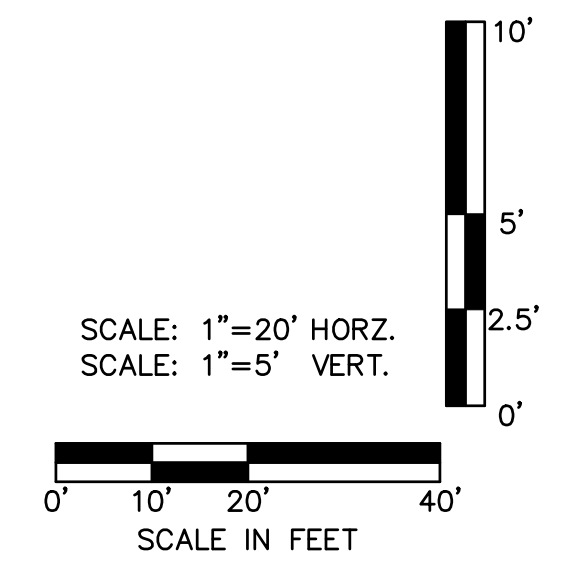
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STATE OF OKLAHOMA
Department of Environmental Quality
APPROVED
July 22 2024
Rocky W. Chen, P.E.
Water Quality Division
D. Adam Dittus, P.E.
Construction Permitting Section



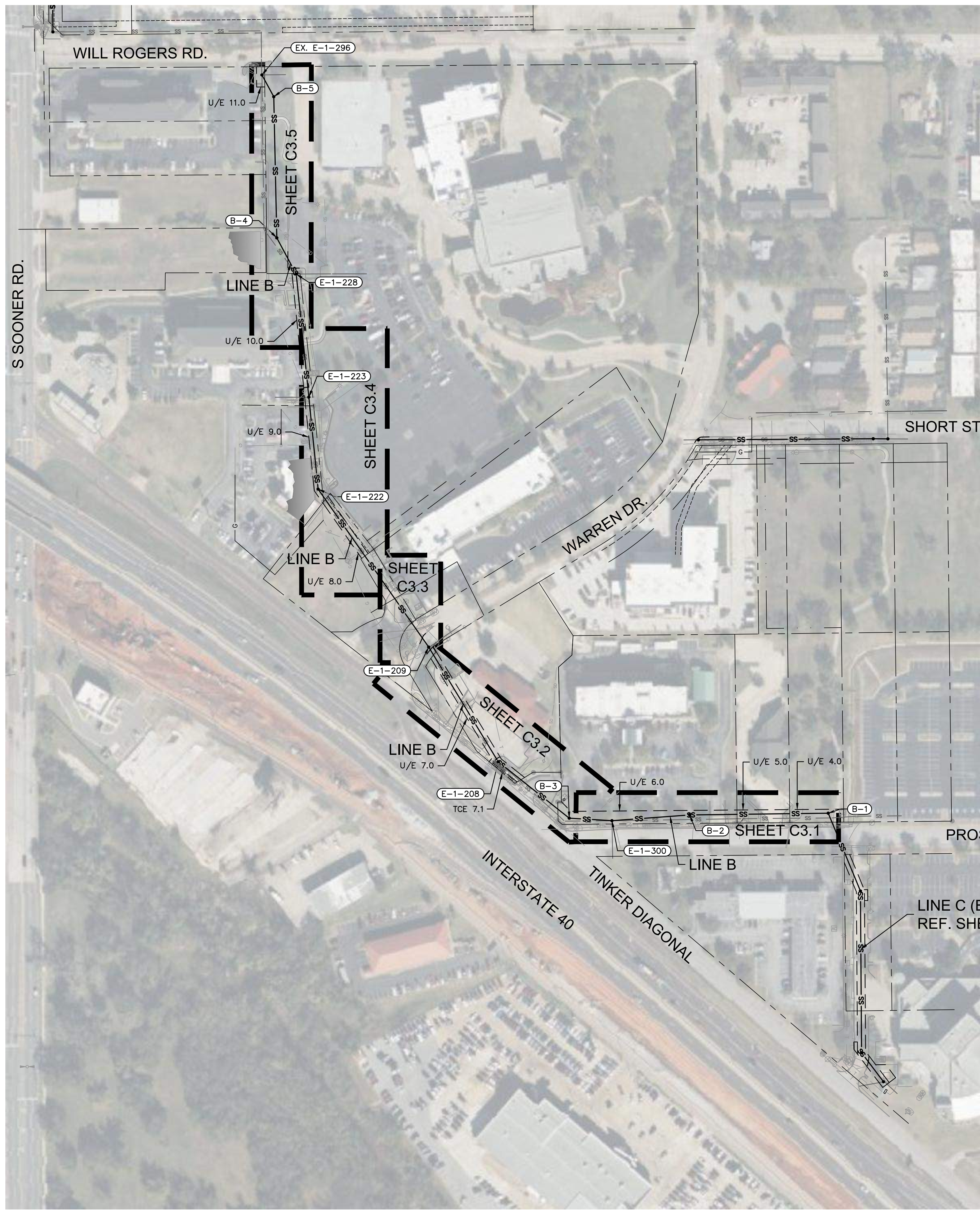
MIDWEST CITY
SOONER ROSE SANITARY SEWER
IMPROVEMENT PLANS
LINE A PLAN & PROFILE

LMRK
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status:
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C2.3
01-2023-002

STRUCTURES	
ID	DESCRIPTION
B-1	PROPOSED MANHOLE 0+10.44 - LINE B RIM = 1201.83 INV IN = 1183.85 (15" PVC) INV OUT = 1183.75 (15" PVC) N: 162041.685; E: 2141683.285
B-2	PROPOSED MANHOLE 2+67.46 - LINE B RIM = 1200.50 INV IN = 1184.54 (15" PVC) INV OUT = 1184.44 (15" PVC) N: 162038.427; E: 2141426.285
B-3	PROPOSED MANHOLE 4+91.45 - LINE B RIM = 1198.11 INV IN = 1185.13 (15" PVC) INV OUT = 1185.03 (15" PVC) N: 162032.423; E: 2141202.823
B-4	PROPOSED MANHOLE 17+43.46 - LINE B RIM = 1199.50 INV IN = 1188.14 (12" PVC) INV OUT = 1188.04 (12" PVC) N: 163108.913; E: 2140660.200
B-5	PROPOSED MANHOLE 20+05.14 - LINE B RIM = 1203.36 INV IN = 1189.99 (12" PVC) INV OUT = 1189.89 (12" PVC) N: 163370.534; E: 2140654.615
E-1-208	EXISTING MANHOLE TO BE REHABBED 6+59.72 - LINE B RIM = 1196.50 INV IN = 1185.77 (15" PVC) INV OUT = 1185.47 (15" PVC) N: 162137.105; E: 2141071.074
E-1-209	EXISTING MANHOLE TO BE REHABBED 9+08.45 - LINE B RIM = 1201.77 INV IN = 1186.17 (15" PVC) INV OUT = 1186.82 (12" PVC) INV OUT = 1186.14 (15" PVC) N: 162349.746; E: 2140942.047
E-1-222	EXISTING MANHOLE TO BE REHABBED 12+56.14 - LINE B RIM = 1198.62 INV IN = 1187.27 (15" PVC) INV OUT = 1187.06 (15" PVC) N: 162642.729; E: 2140736.854
E-1-223	EXISTING MANHOLE TO BE REHABBED 14+37.62 - LINE B RIM = 1198.49 INV IN = 1187.79 (10" PVC) INV IN = 1187.71 (12" PVC) INV OUT = 1187.60 (15" PVC) N: 162813.333; E: 2140719.626
E-1-228	EXISTING MANHOLE TO BE REHABBED 16+47.08 - LINE B RIM = 1198.49 INV IN = 1188.82 (12" PVC) INV IN = 1189.34 (8" PVC) INV OUT = 1188.72 (12" PVC) N: 163041.605; E: 2140686.253
E-1-300	EXISTING MANHOLE TO BE REHABBED 4+12.06 - LINE B RIM = 1200.03 INV IN = 1184.88 (8" PVC) INV IN = 1184.88 (15" PVC) INV OUT = 1184.78 (15" PVC) N: 162027.791; E: 2141282.079
EX. E-1-296	EXISTING MANHOLE TO BE REHABBED 20+51.11 - LINE B RIM = 1202.69 INV IN = 1190.24 (8" PVC) INV IN = 1190.84 (8" PVC) INV OUT = 1190.14 (12" PVC) N: 163410.888; E: 2140632.594



LINE B (BASE BID)				
ITEM #	ITEM	NOTE	UNIT	QUANTITY
1	EXCAVATION AND BACKFILL, UNCLASSIFIED	6, 23	CY	200
2	8" PVC SDR-35 (BORING)	8, 17	LF	-
3	12" PVC SDR-35 (BORING)	8, 17	LF	412
4	15" PVC SDR-35 (BORING)	8, 17	LF	1058
5	8" PVC SDR-35 (TRENCHING)	6, 8, 16	LF	-
6	12" PVC SDR-35 (TRENCHING)	6, 8, 16	LF	202
7	15" PVC SDR-35 (TRENCHING)	6, 8, 16	LF	370
8	14" STEEL ENCASEMENT	12	LF	-
9	20" STEEL ENCASEMENT	12	LF	412
10	24" STEEL ENCASEMENT	12	LF	1058
11	SERVICE CONNECTION	13, 20	EA	10
12	STANDARD 4' DIAMETER MANHOLE	10, 21	EA	5
13	CEMENTITIOUS MANHOLE COATING	13, 20	VF	87
14	NEW MANHOLE FRAME, COVER, AND SEAL	27	EA	7
15	REPLACE BENCH AND TROUGH	27	EA	7
16	AGGREGATE BASE TYPE "A"	26	CY	435
17	COMBINED CURB & GUTTER 6" BARRIER	1	LF	246
18	SIDEWALK REMOVAL & REPLACEMENT	1, 25	SY	15
19	PAVING REMOVAL & REPLACEMENT	1, 25	SY	126
20	SOLID SLAB SODDING	3	SY	760
21	EXTRA DEPTH MANHOLE		VF	101
22	TESTING	22	LS	1
23	BYPASS PUMPING	5	LS	1
24	CONSTRUCTION STAKING	5	LS	1
25	LEAKAGE TESTING	22	LS	1
26	DEFLECTION TEST	22	LS	1
27	TRAFFIC CONTROL	15	LS	1
28	TEMPORARY EROSION AND SEDIMENT CONTROL	11	LS	1
29	PRE-INSTALLATION VIDEO INSPECTION	14, 19	LF	2054
30	POST-INSTALLATION VIDEO INSPECTION	14	LF	2041
31	MOBILIZATION		LS	1
32	CLEARING AND RESTORATION	2, 4, 7, 9	LS	1
33	REMOVAL OR ABANDONMENT OF EX. SEWER	24	LS	1
34	REMOVAL AND REPLACEMENT OF STORM SEWER	28	LS	1

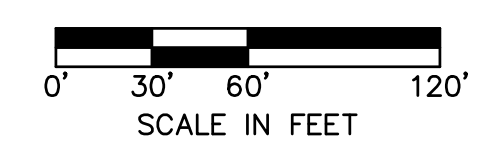
REV. NO.	DATE	REVISIONS DESCRIPTION

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CERTIFICATE OF AUTHORIZATION: 8667
EXPIRES 06/30/2025

MIDWEST CITY
SOONER ROSE SANITARY SEWER
IMPROVEMENT PLANS
LINE B OVERALL PLAN

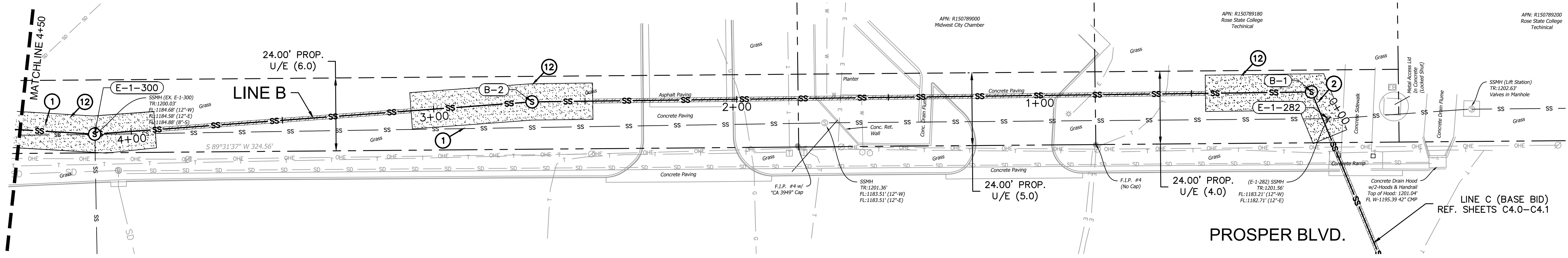
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drawn by: SB
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STATE OF OKLAHOMA
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July 22 2024
Rocky W. Chen, P.E.
Water Quality Division
D. Adam Dittus, P.E.
Construction Permitting Section



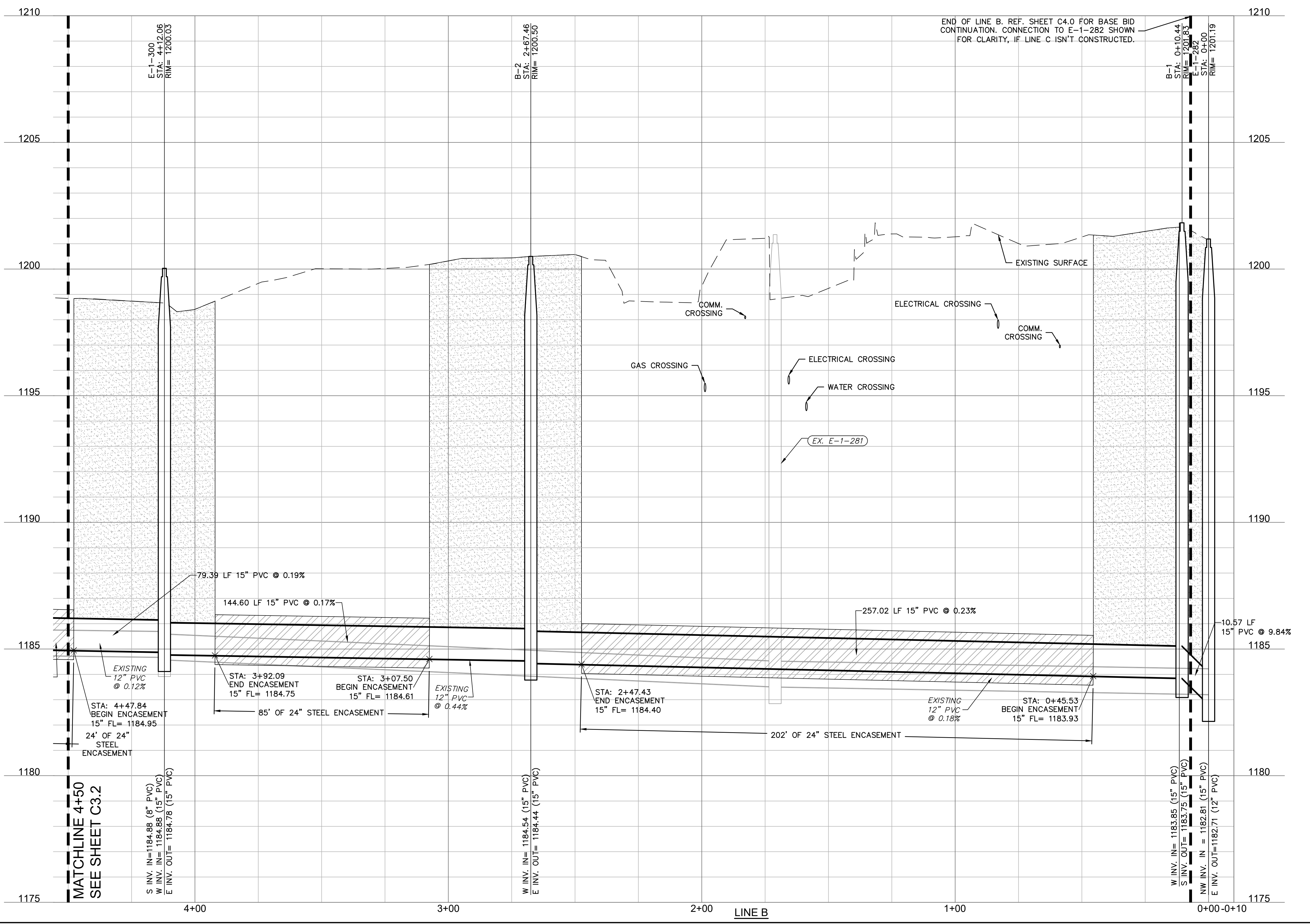
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01-2023-002

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KEYNOTES:

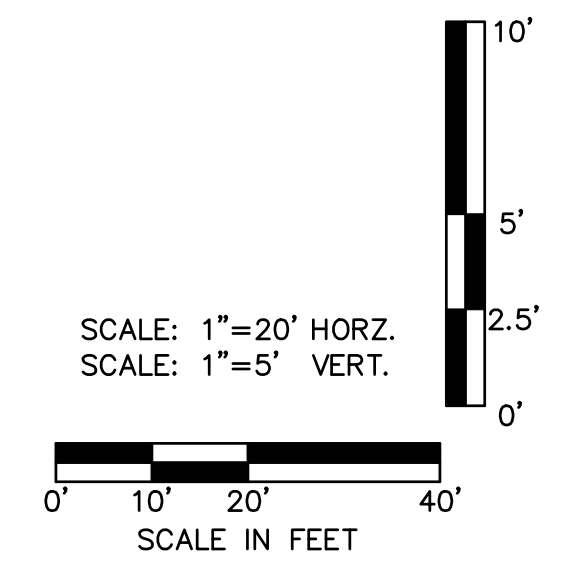
1. REMOVE TREE AS NECESSARY FOR CONSTRUCTION.
2. DESIGNED SO THAT LINE C CAN BE CONSTRUCTED, BUT IF LINE C IS NOT CONSTRUCTED, PIPE BETWEEN B-1 AND EXISTING MANHOLE E-1-282 WILL HAVE ADEQUATE FALL. (REF. SHEET C4.0 FOR CONTINUATION)
3. REMOVE AND REPLACE 19 SY OF CONCRETE PAVEMENT.
4. REMOVE AND REPLACE 17 LF OF CONCRETE CURB FOR PIT.
5. REMOVE AND REPLACE 15 SY OF CONCRETE SIDEWALK.
6. REMOVE AND REPLACE 23 LF OF CONCRETE CURB FOR PIT.
7. REMOVE AND REPLACE 22 LF OF CONCRETE CURB FOR PIT.
8. REMOVE AND REPLACE 57 SY OF CONCRETE PAVEMENT.
9. SPECIAL CONDITION STORM CROSSING; TBD
10. REMOVE AND REPLACE 50 SY OF CONCRETE PAVEMENT.
11. REMOVE AND REPLACE 42 LF OF CONCRETE CURB FOR PIT.
12. SOLID SLAB SOD OVER DISTURBED AREA.
13. ELECTRICAL LINE TO BE ACCOUNTED FOR AND RELOCATED, OR SUPPORTED, AS NECESSARY FOR CONSTRUCTION.
14. COMMUNICATION LINE TO BE ACCOUNTED FOR AND RELOCATED, OR SUPPORTED, AS NECESSARY FOR CONSTRUCTION.
15. GAS LINE TO BE RELOCATED PRIOR TO CONSTRUCTION BY OTHERS.
16. STORM SEWER TO BE TEMPORARILY REMOVED AND REPLACED FOR EXCAVATION.
17. REMOVE AND REPLACE 16 LF OF CONCRETE CURB FOR PIT.



END OF LINE B. REF. SHEET C4.0 FOR BASE BID CONTINUATION. CONNECTION TO E-1-282 SHOWN FOR CLARITY, IF LINE C ISN'T CONSTRUCTED.

NOTES:

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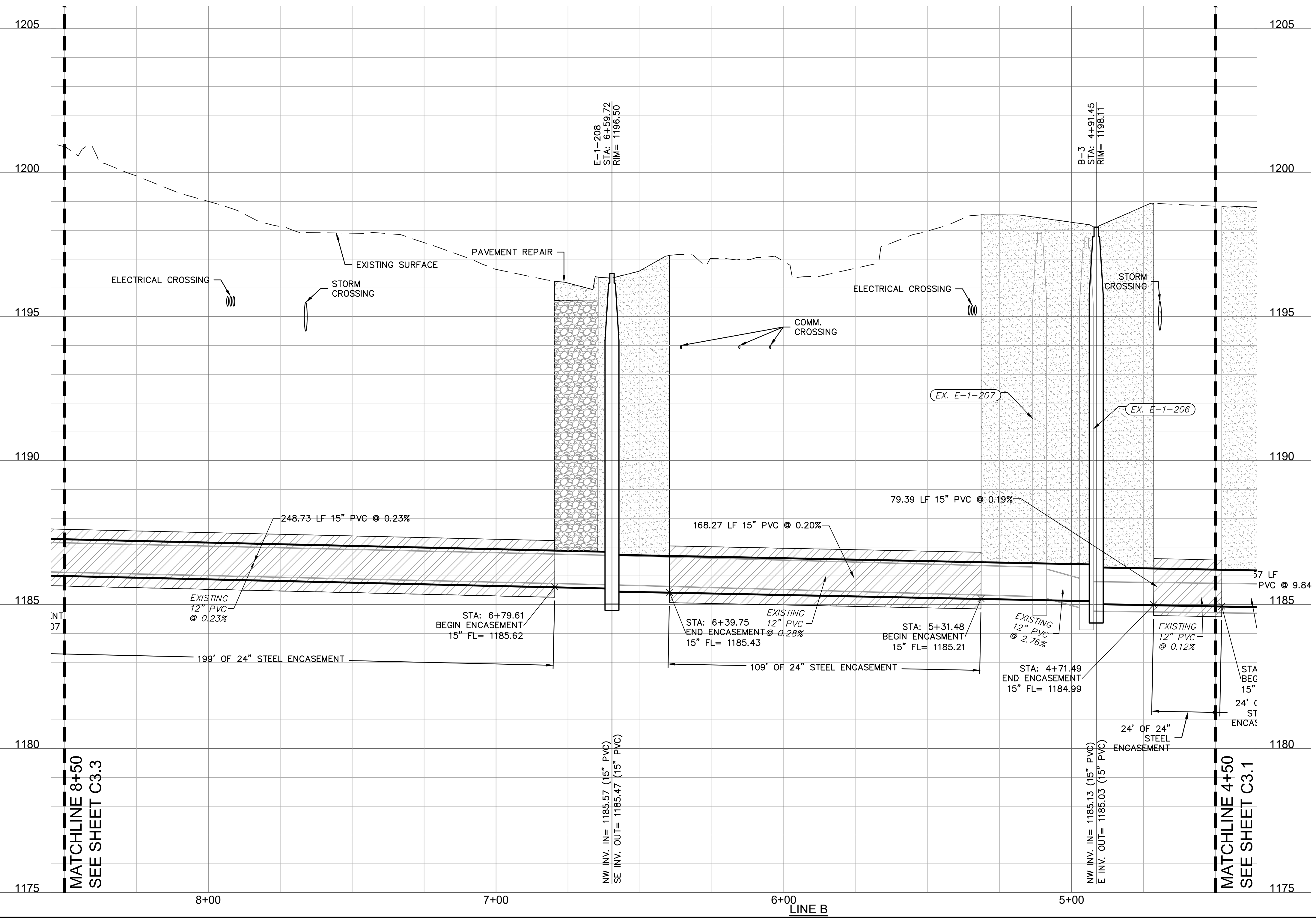
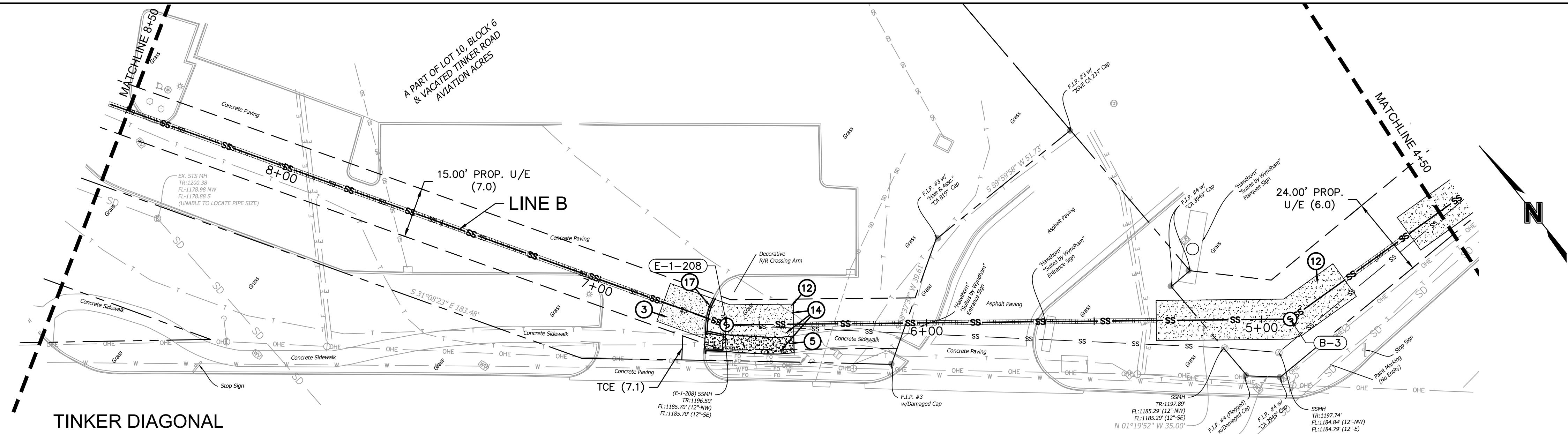


MIDWEST CITY
SOONER ROSE SANITARY SEWER
IMPROVEMENT PLANS
LINE B PLAN & PROFILE

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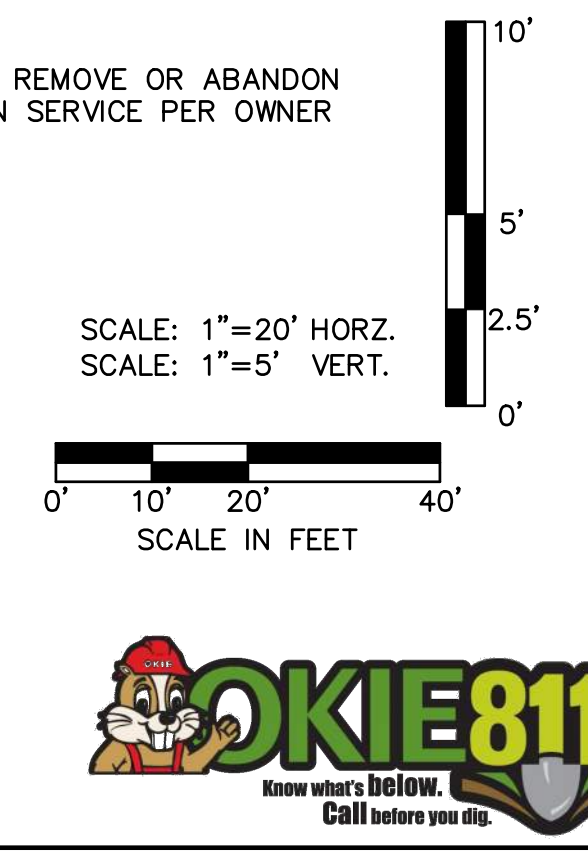
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01-2023-002

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 - REMOVE AND REPLACE 17 LF OF CONCRETE CURB FOR PIT.
 - REMOVE AND REPLACE 15 SY OF CONCRETE SIDEWALK.
 - REMOVE AND REPLACE 23 LF OF CONCRETE CURB FOR PIT.
 - REMOVE AND REPLACE 22 LF OF CONCRETE CURB FOR PIT.
 - REMOVE AND REPLACE 57 SY OF CONCRETE PAVEMENT.
 - SPECIAL CONDITION STORM CROSSING; TBD
 - REMOVE AND REPLACE 50 SY OF CONCRETE PAVEMENT.
 - REMOVE AND REPLACE 42 LF OF CONCRETE CURB FOR PIT.
 - SOLID SLAB SOD OVER DISTURBED AREA.
 - ELECTRICAL LINE TO BE ACCOUNTED FOR AND RELOCATED, OR SUPPORTED, AS NECESSARY FOR CONSTRUCTION.
 - COMMUNICATION LINE TO BE ACCOUNTED FOR AND RELOCATED, OR SUPPORTED, AS NECESSARY FOR CONSTRUCTION.
 - GAS LINE TO BE RELOCATED PRIOR TO CONSTRUCTION BY OTHERS.
 - STORM SEWER TO BE TEMPORARILY REMOVED AND REPLACED FOR EXCAVATION.
 - REMOVE AND REPLACE 16 LF OF CONCRETE CURB FOR PIT.

- NOTES:**
- CONTRACTOR SHALL USE PRE-INSTALLATION VIDEO FOOTAGE TO LOCATE AND ENSURE ALL SERVICE CONNECTIONS ARE RECONNECTED PRIOR TO THE COMPLETION OF CONSTRUCTION.
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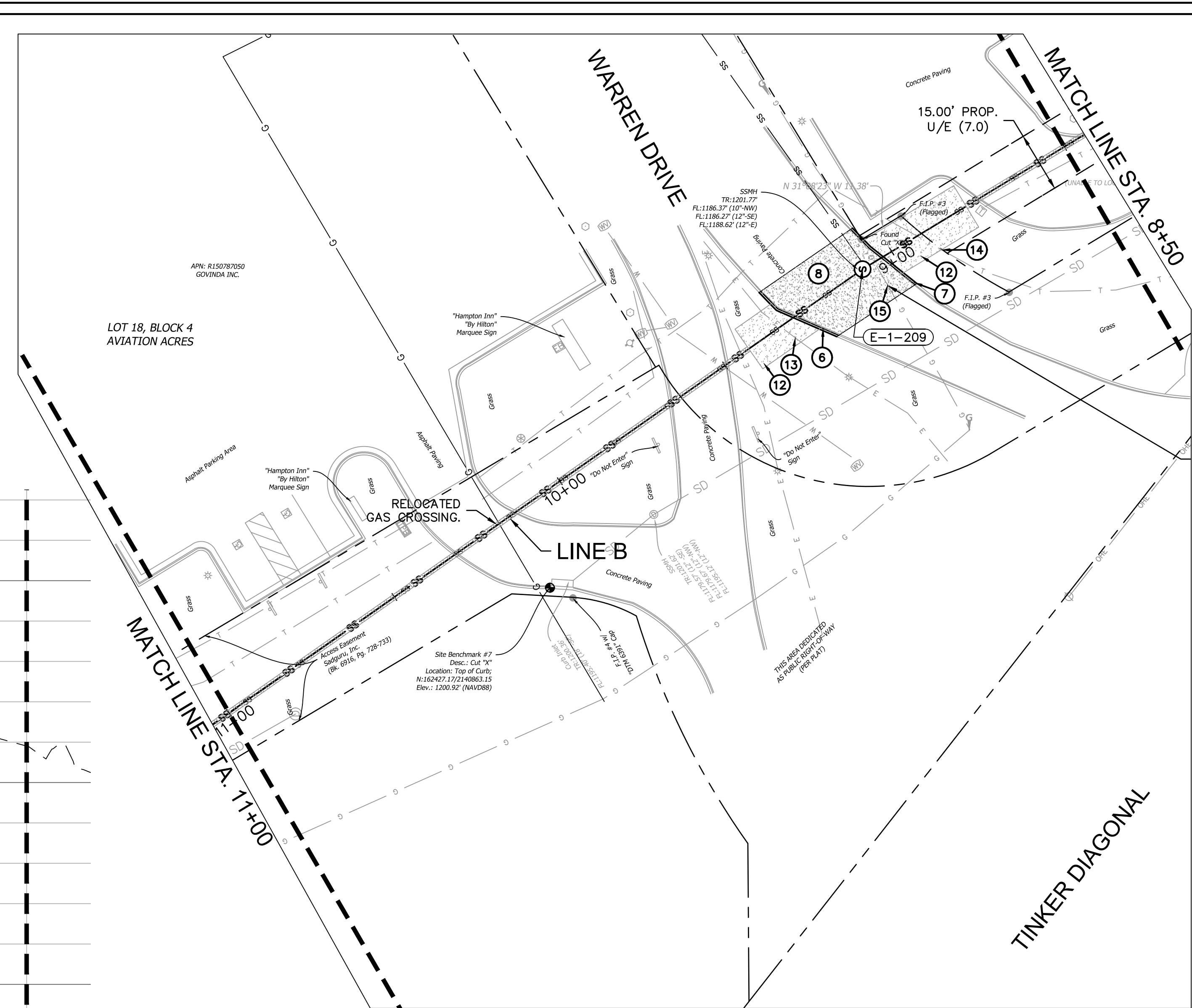
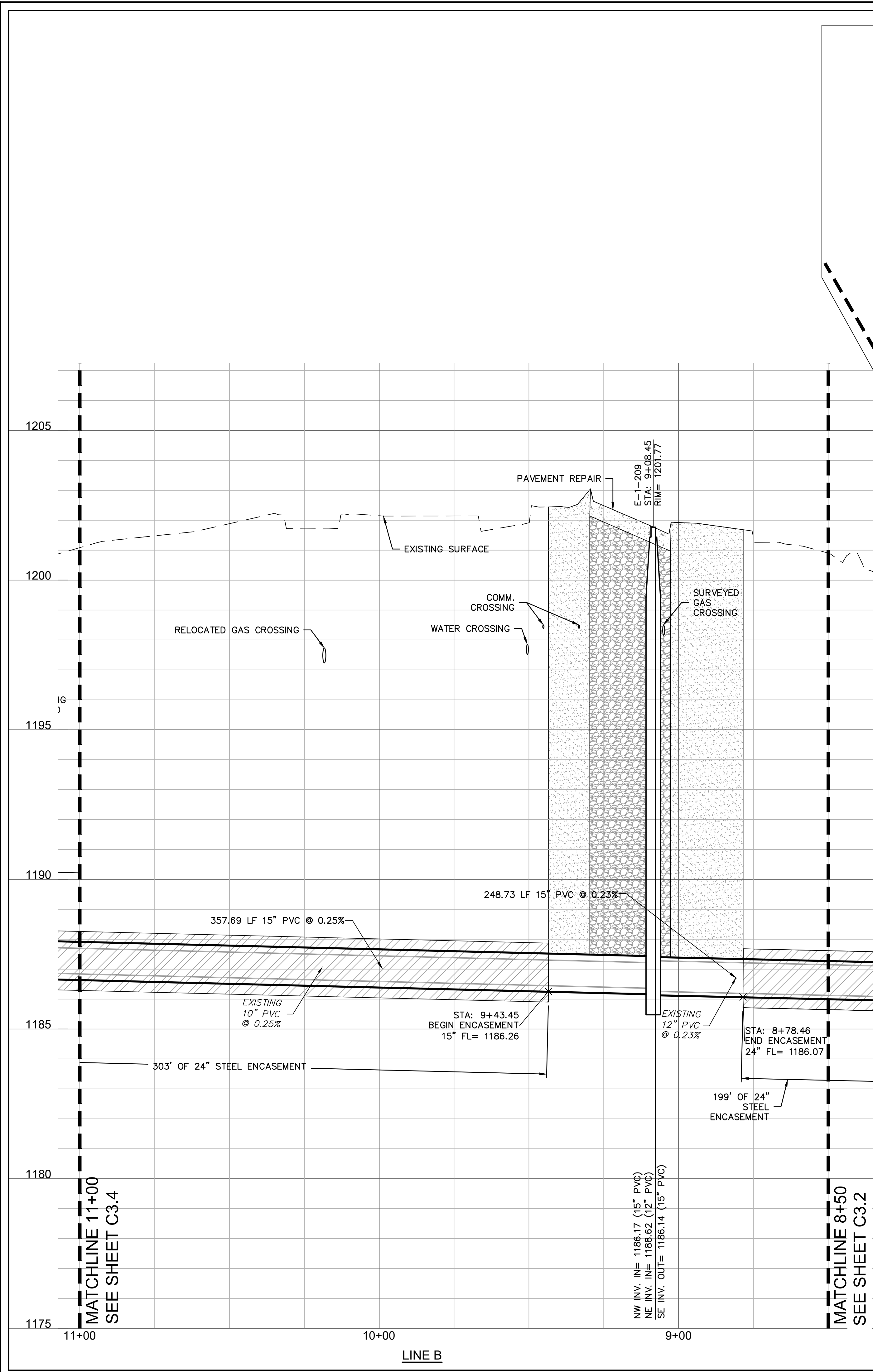
MIDWEST CITY
SOONER ROSE SANITARY SEWER
IMPROVEMENT PLANS
LINE B PLAN & PROFILE

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drawn by: SB
QA/QC by: RK
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01-2023-002



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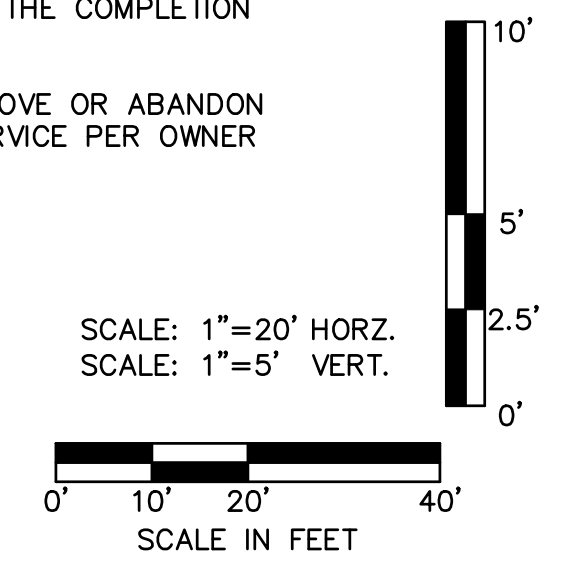
CAUTION! SURVEYED GAS LINE IN CLOSE PROXIMITY. ONCE TO RELOCATE. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ABANDONMENT. CONTACT ENGINEER WITH DISCREPANCIES BETWEEN THESE PLANS AND FIELD CONDITIONS.

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6. REMOVE AND REPLACE 23 LF OF CONCRETE CURB FOR PIT.
7. REMOVE AND REPLACE 22 LF OF CONCRETE CURB FOR PIT.
8. REMOVE AND REPLACE 57 SY OF CONCRETE PAVEMENT.
9. SPECIAL CONDITION STORM CROSSING; TBD
10. REMOVE AND REPLACE 50 SY OF CONCRETE PAVEMENT.
11. REMOVE AND REPLACE 42 LF OF CONCRETE CURB FOR PIT.
12. SOLID SLAB SOD OVER DISTURBED AREA.
13. ELECTRICAL LINE TO BE ACCOUNTED FOR AND RELOCATED, OR SUPPORTED, AS NECESSARY FOR CONSTRUCTION.
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17. REMOVE AND REPLACE 16 LF OF CONCRETE CURB FOR PIT.

NOTES:

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D. Adams Division, P.E.
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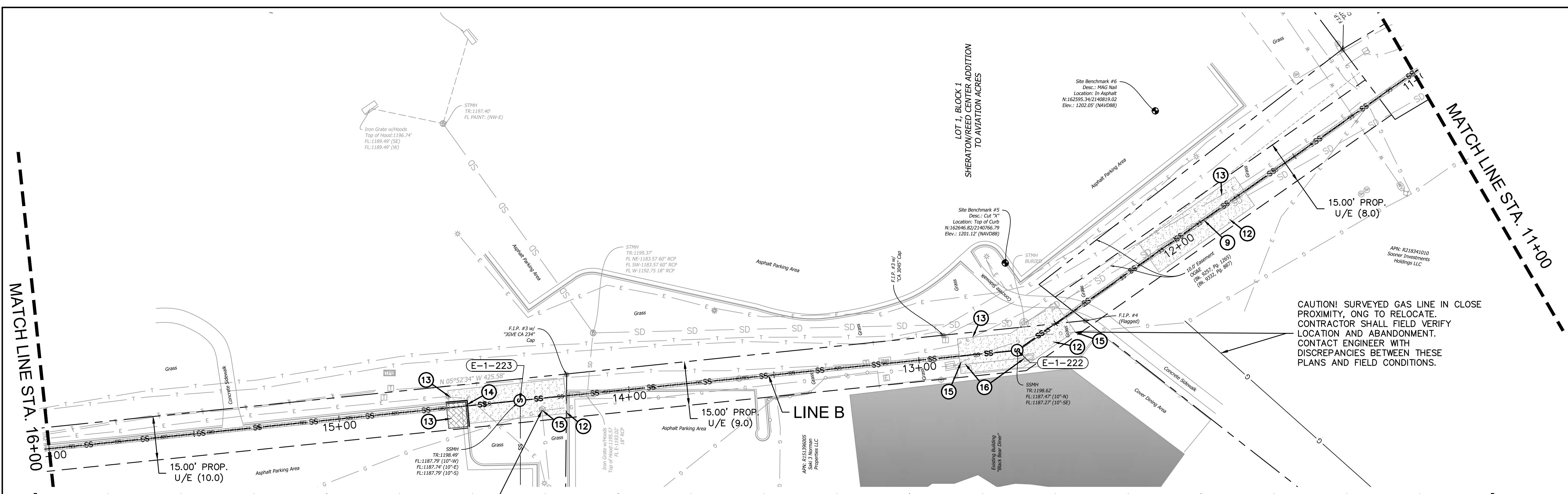
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MIDWEST CITY
SOONER ROSE SANITARY SEWER
IMPROVEMENT PLANS
LINE B PLAN & PROFILE

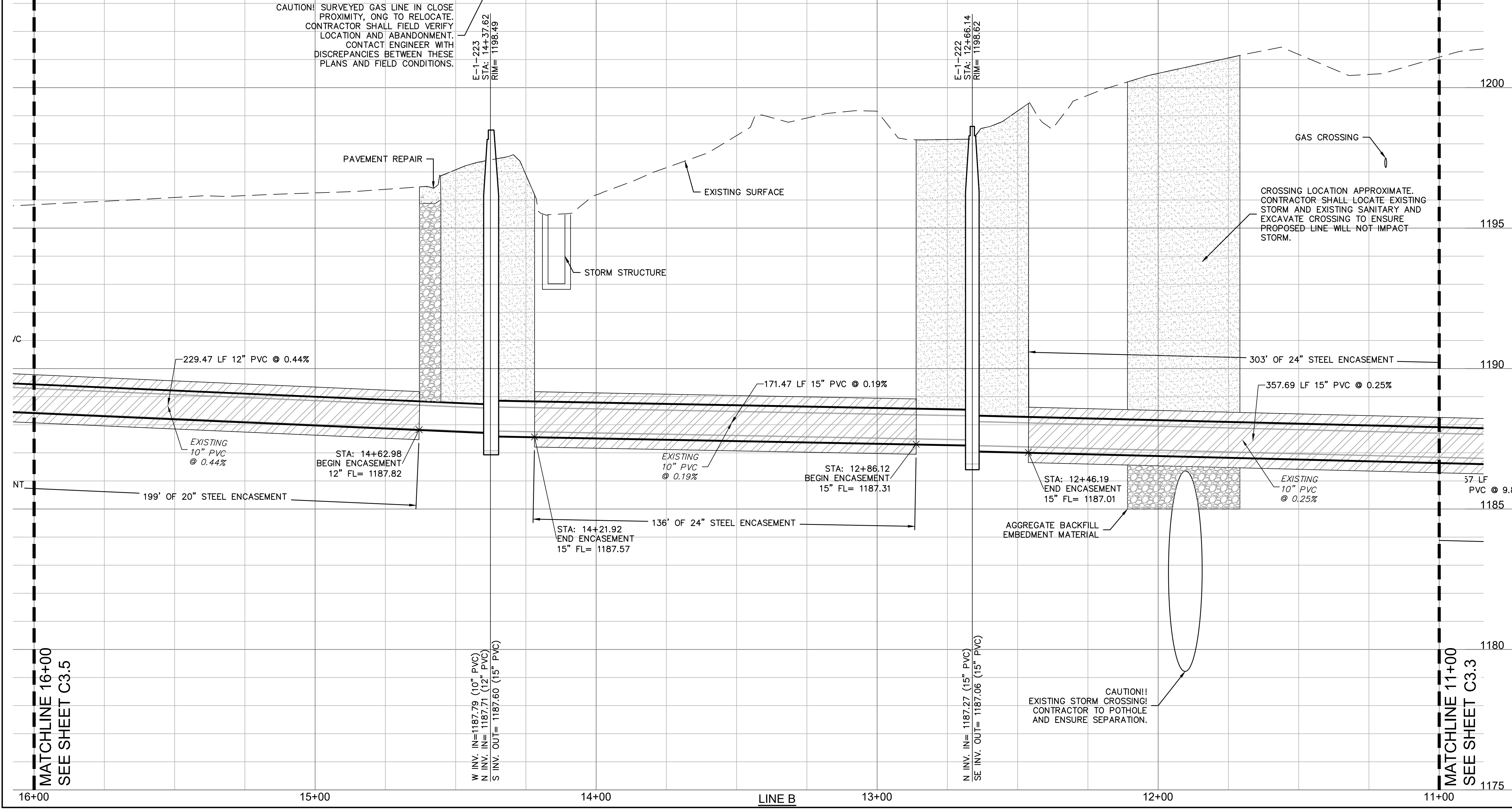
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drawn by: SB
QA/QC by: RK
date: 5/03/2024

C3.3
01-2023-002

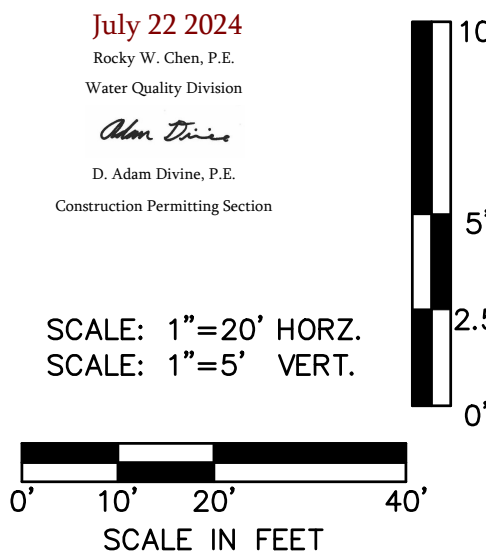
REVISIONS



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 7. REMOVE AND REPLACE 22 LF OF CONCRETE CURB FOR PIT.
 8. REMOVE AND REPLACE 57 SY OF CONCRETE PAVEMENT.
 9. SPECIAL CONDITION STORM CROSSING.
 10. REMOVE AND REPLACE 50 SY OF CONCRETE PAVEMENT.
 11. REMOVE AND REPLACE 42 LF OF CONCRETE CURB FOR PIT.
 12. SOLID SLAB SOD OVER DISTURBED AREA.
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 15. GAS LINE TO BE RELOCATED PRIOR TO CONSTRUCTION BY OTHERS.
 16. STORM SEWER TO BE TEMPORARILY REMOVED AND REPLACED FOR EXCAVATION.
 17. REMOVE AND REPLACE 16 LF OF CONCRETE CURB FOR PIT.



- NOTES:**
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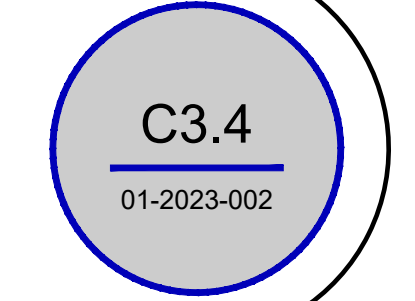
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MIDWEST CITY
SOONER ROSE SANITARY SEWER
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LINE B PLAN & PROFILE

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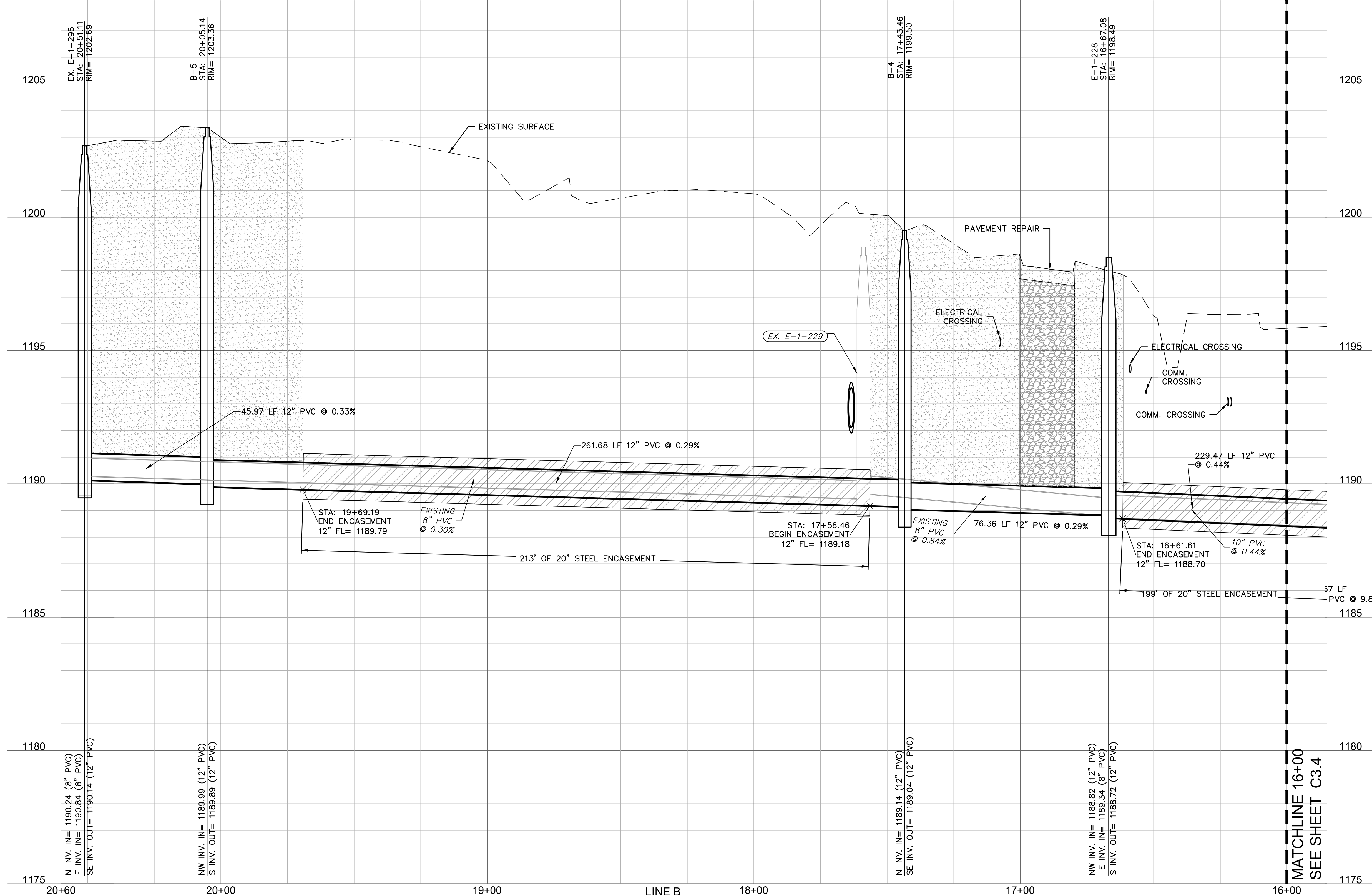
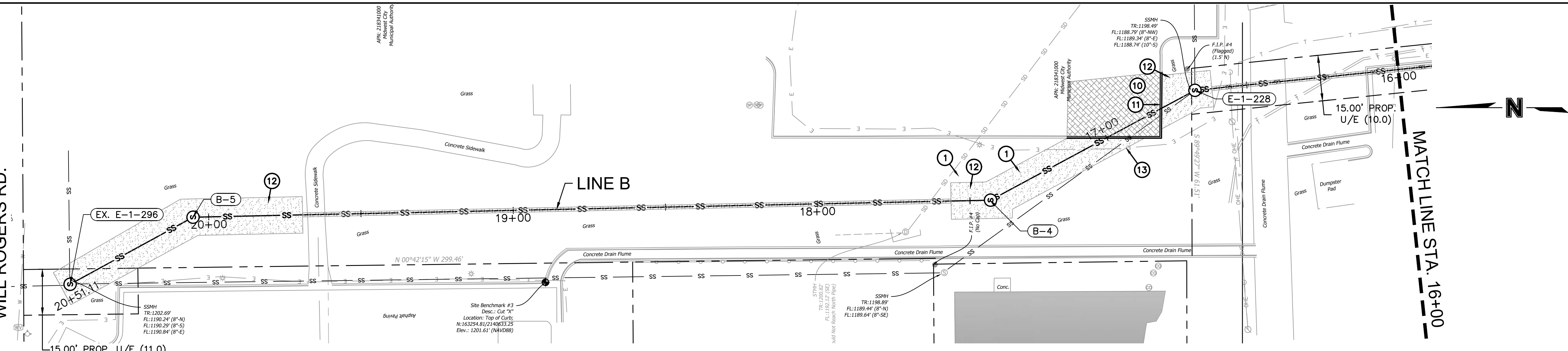
REVISIONS

MATCHLINE 16+00
SEE SHEET C3.5

MATCHLINE 11+00
SEE SHEET C3.3

16+00 15+00 14+00 LINE B 13+00 12+00 11+00

WILL ROGERS RD.

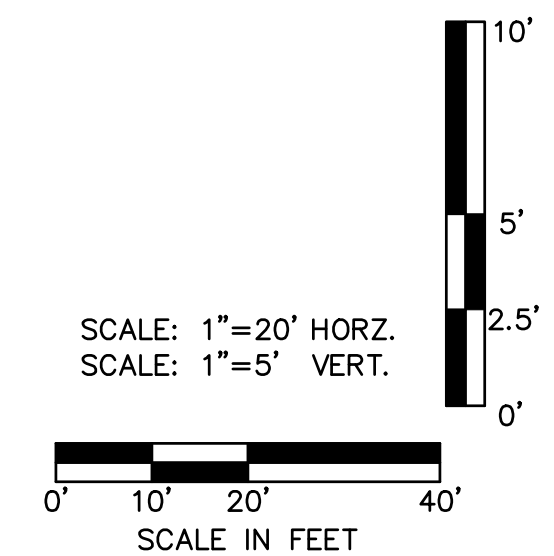


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4. REMOVE AND REPLACE 17 LF OF CONCRETE CURB FOR PIT.
5. REMOVE AND REPLACE 15 SY OF CONCRETE SIDEWALK.
6. REMOVE AND REPLACE 23 LF OF CONCRETE CURB FOR PIT.
7. REMOVE AND REPLACE 22 LF OF CONCRETE CURB FOR PIT.
8. REMOVE AND REPLACE 57 SY OF CONCRETE PAVEMENT.
9. SPECIAL CONDITION STORM CROSSING; TBD
10. REMOVE AND REPLACE 50 SY OF CONCRETE PAVEMENT.
11. REMOVE AND REPLACE 42 LF OF CONCRETE CURB FOR PIT.
12. SOLID SLAB SOD OVER DISTURBED AREA.
13. ELECTRICAL LINE TO BE ACCOUNTED FOR AND RELOCATED, OR SUPPORTED, AS NECESSARY FOR CONSTRUCTION.
14. COMMUNICATION LINE TO BE ACCOUNTED FOR AND RELOCATED, OR SUPPORTED, AS NECESSARY FOR CONSTRUCTION.
15. GAS LINE TO BE RELOCATED PRIOR TO CONSTRUCTION BY OTHERS.
16. STORM SEWER TO BE TEMPORARILY REMOVED AND REPLACED FOR EXCAVATION.
17. REMOVE AND REPLACE 16 LF OF CONCRETE CURB FOR PIT.

NOTES:

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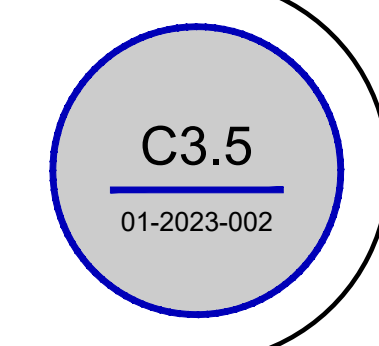


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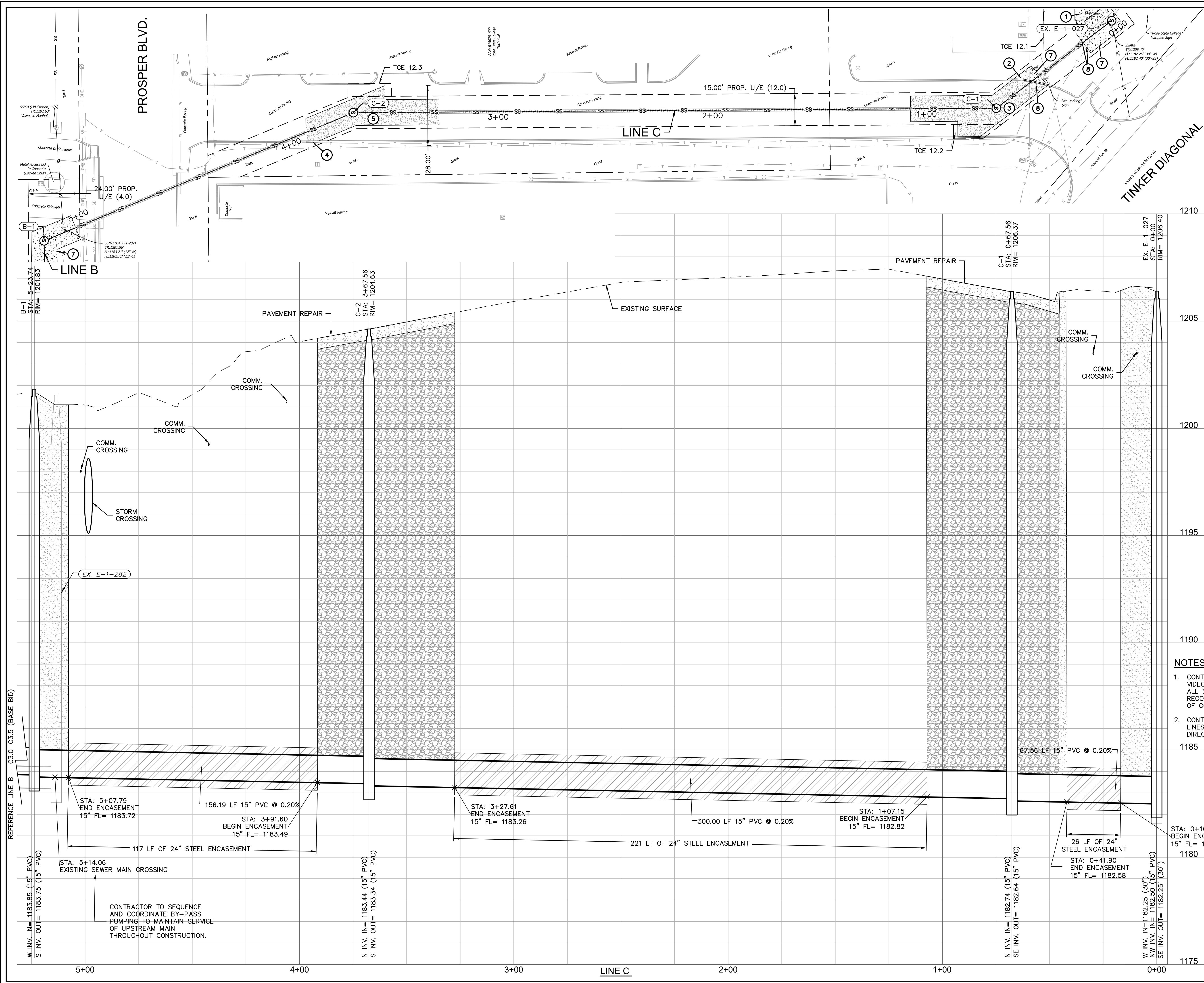


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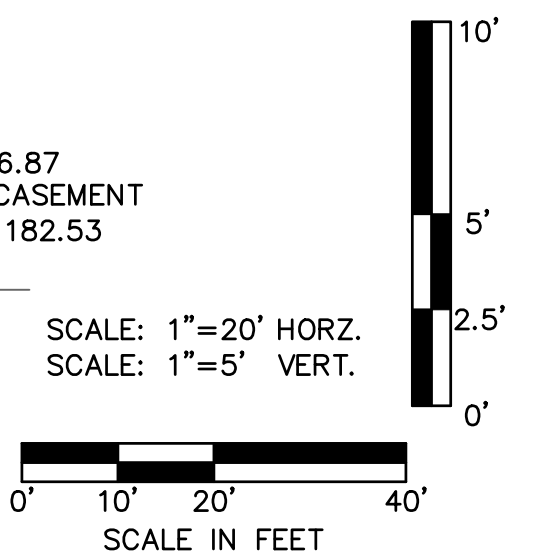


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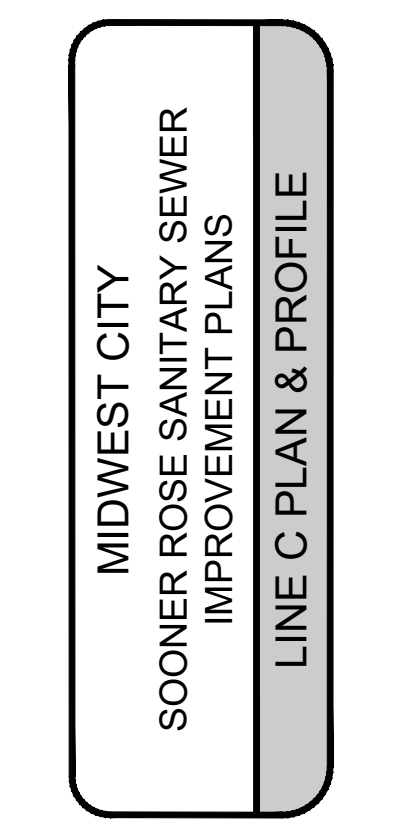


- KEYNOTES:**
1. REMOVE 16 SY OF CONCRETE AND DEMO PIPE DOWN TO 3" BELOW GRADE MINIMUM.
 2. REMOVE AND REPLACE 17 LF OF CONCRETE CURB FOR EXCAVATION.
 3. REMOVE AND REPLACE 93 SY OF CONCRETE PAVEMENT.
 4. REMOVE AND REPLACE 6 LF OF CONCRETE CURB FOR EXCAVATION.
 5. REMOVE AND REPLACE 91 SY OF CONCRETE PAVEMENT.
 6. NOT USED
 7. SOLID SLAB SOD OVER DISTURBED AREA.
 8. COMMUNICATION LINE TO BE ACCOUNTED FOR AND RELOCATED, OR SUPPORTED, AS NECESSARY FOR CONSTRUCTION.

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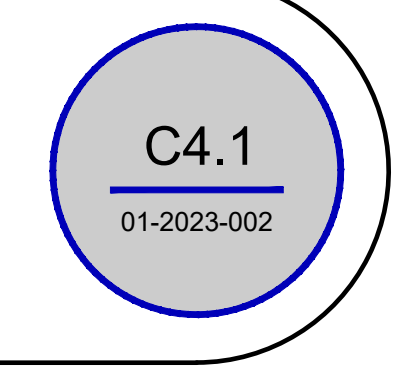


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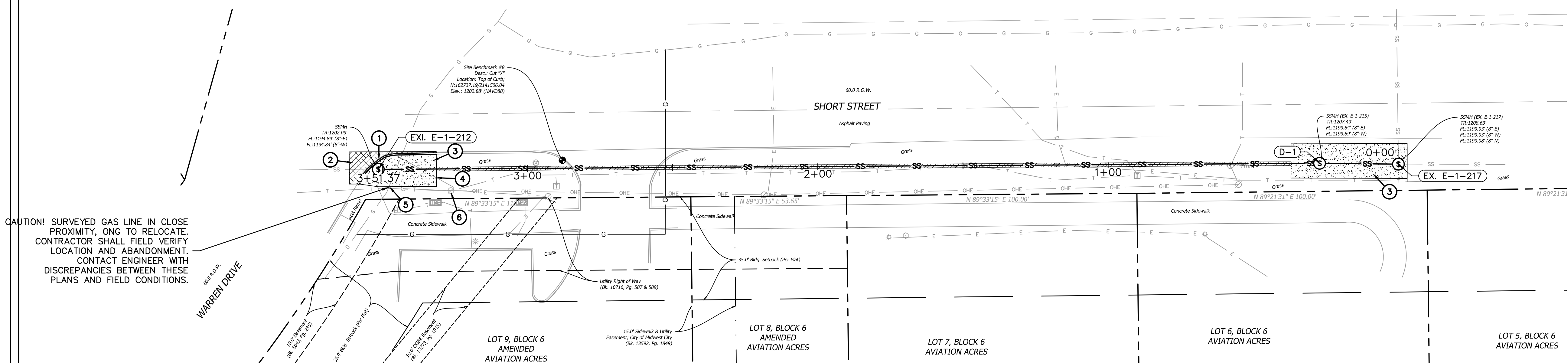


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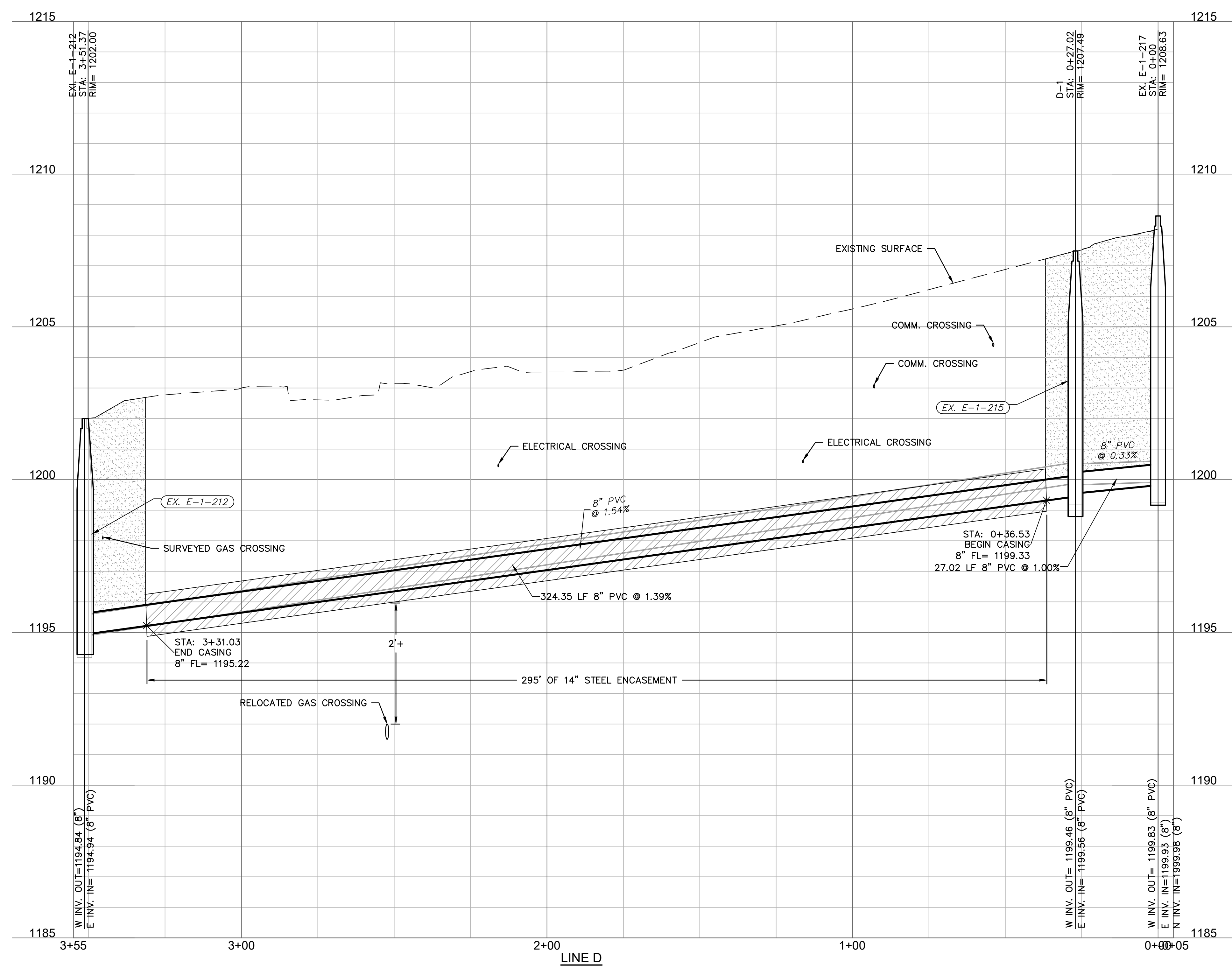
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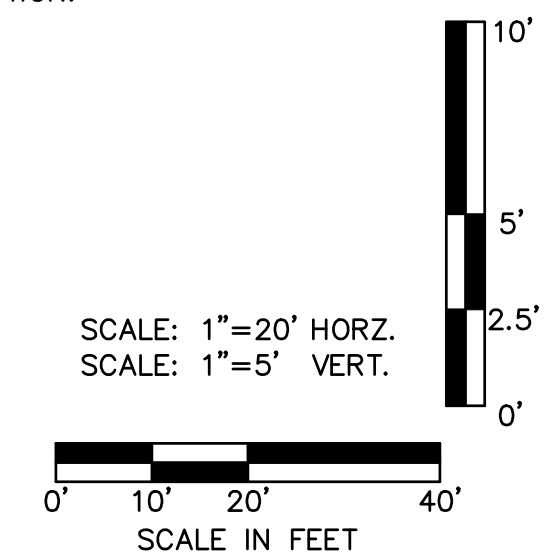
REVISIONS



- KEYNOTES:**
1. REMOVE AND REPLACE 32 LF OF CONCRETE CURB FOR PIT.
 2. REMOVE AND REPLACE 32 SY OF ASPHALT PAVEMENT.
 3. SOLID SLAB SOD OVER DISTURBED AREA.
 4. ELECTRICAL LINE TO BE RELOCATED PRIOR TO CONSTRUCTION BY OTHERS.
 5. GAS LINE TO BE RELOCATED PRIOR TO CONSTRUCTION BY OTHERS.
 6. ELECTRICAL POLE TO BE SUPPORTED AS NECESSARY DURING CONSTRUCTION.



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LMRK ENGINEERING
2733 NW 129TH ST.
OKLAHOMA CITY, OK 73142
CERTIFICATE OF AUTHORIZATION: 8667
EXPIRES 06/30/2025

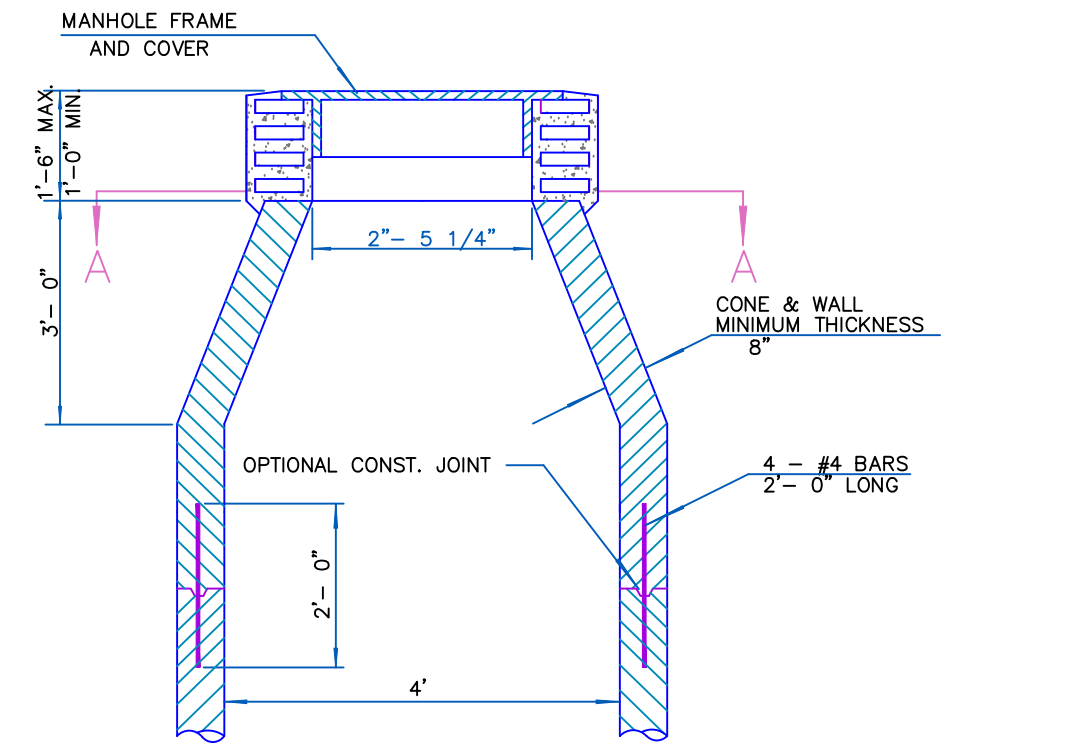
MIDWEST CITY
SOONER ROSE SANITARY SEWER
IMPROVEMENT PLANS
LINE D PLAN & PROFILE

status: **ISSUE FOR PERMIT**

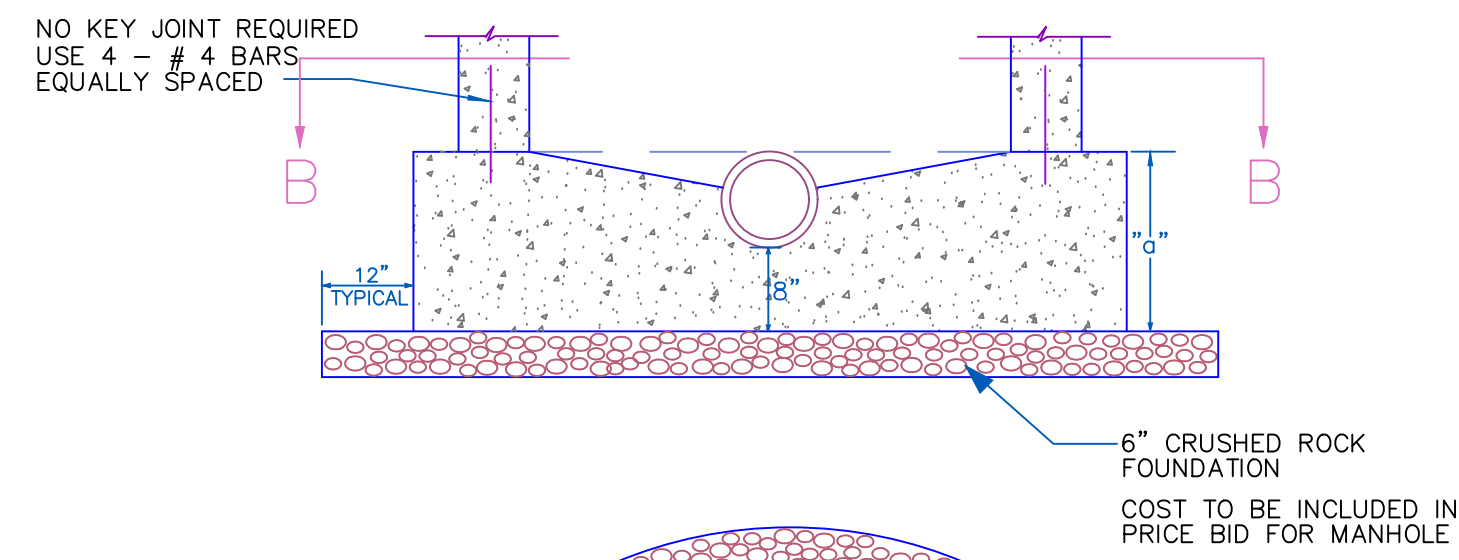
drawn by: SB
QA/QC by: RK
date: 5/03/2024

C5.1
01-2023-002

REVISIONS



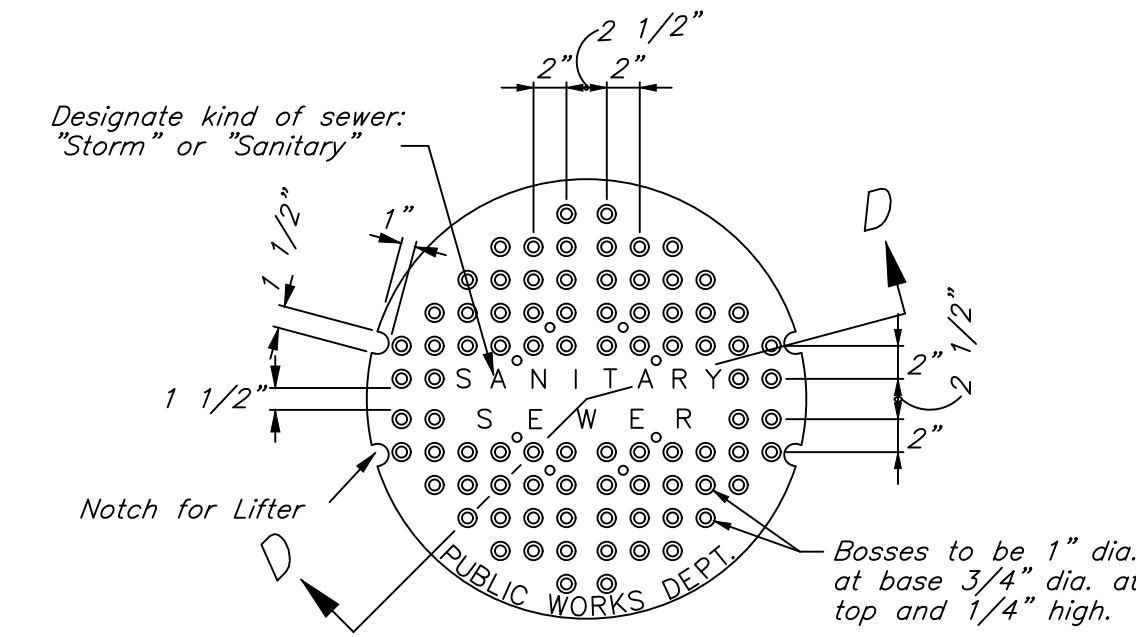
SECTION A - A
MANHOLE DETAIL



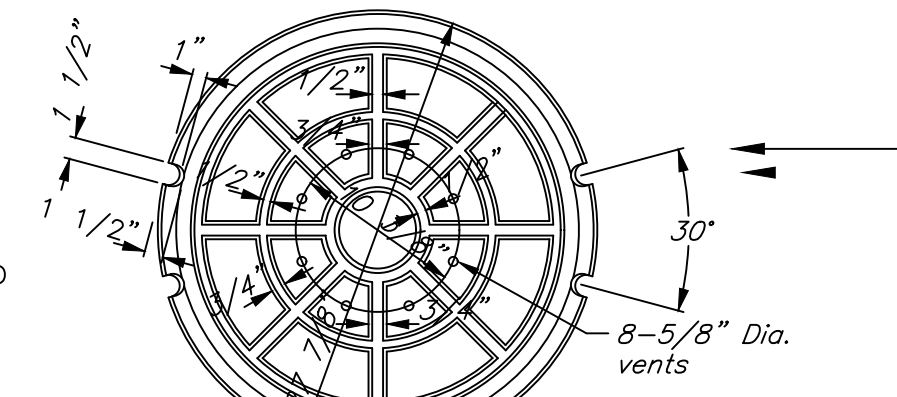
SECTION B - B
STANDARD DETAIL FOR
MANHOLE BASE SECTION

Pipe Dia.	a
8"	1'-8"
10"	1'-10"
12"	2'-1"
15"	2'-4"
18"	2'-8"
21"	3'-0"
24"	3'-3"

Inside Pipe Dia.	Casing Size Inside Dia.
4"	8"-10"
6"	10"-12"
8"	14"-16"
10"	16"-18"
12"	18"-20"
15"	20"-22"
18"	24"-26"
24"	31"-33"

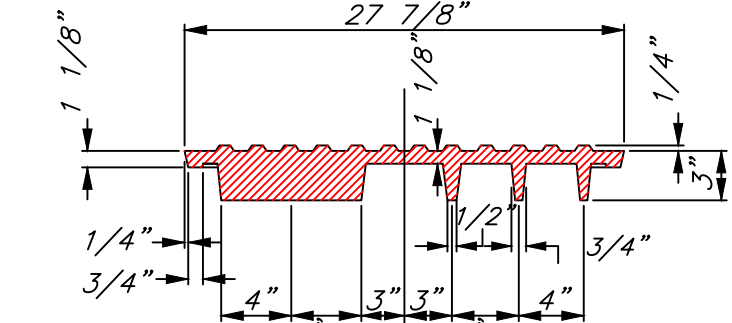


PLAN OF TOP

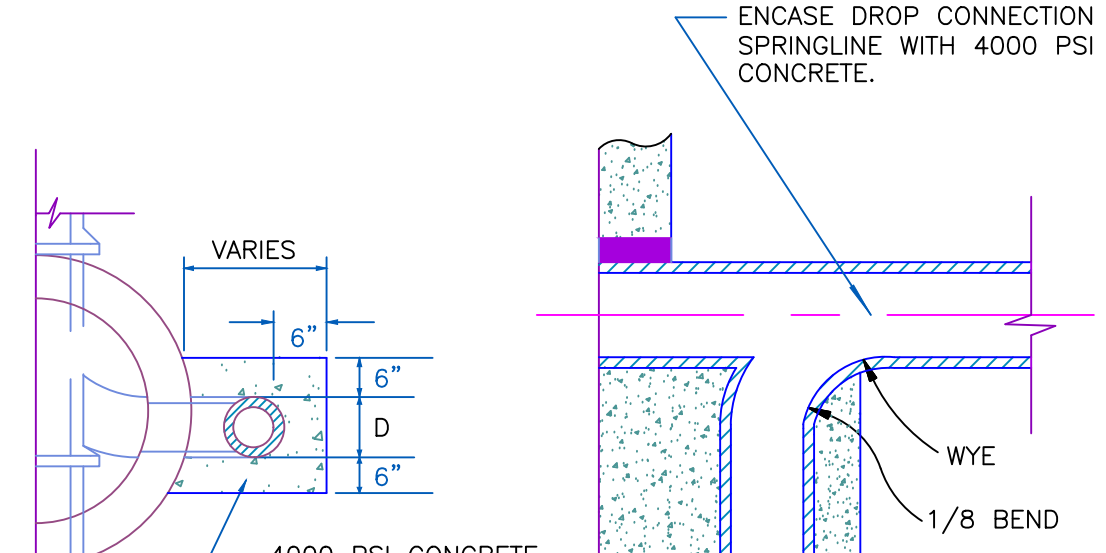


PLAN OF UNDERSIDE

- GENERAL NOTES**
- Castings shall conform to the A.S.T.M. Specifications for Gray-Iron Castings, Serial Designation A 48-29
 - When each cover is placed in any position in its associated frame, the side play in any direction shall not exceed one-eighth (1/8") inch.
 - No wording or marking of any kind, other than those shown on the plan, will be permitted on these castings.



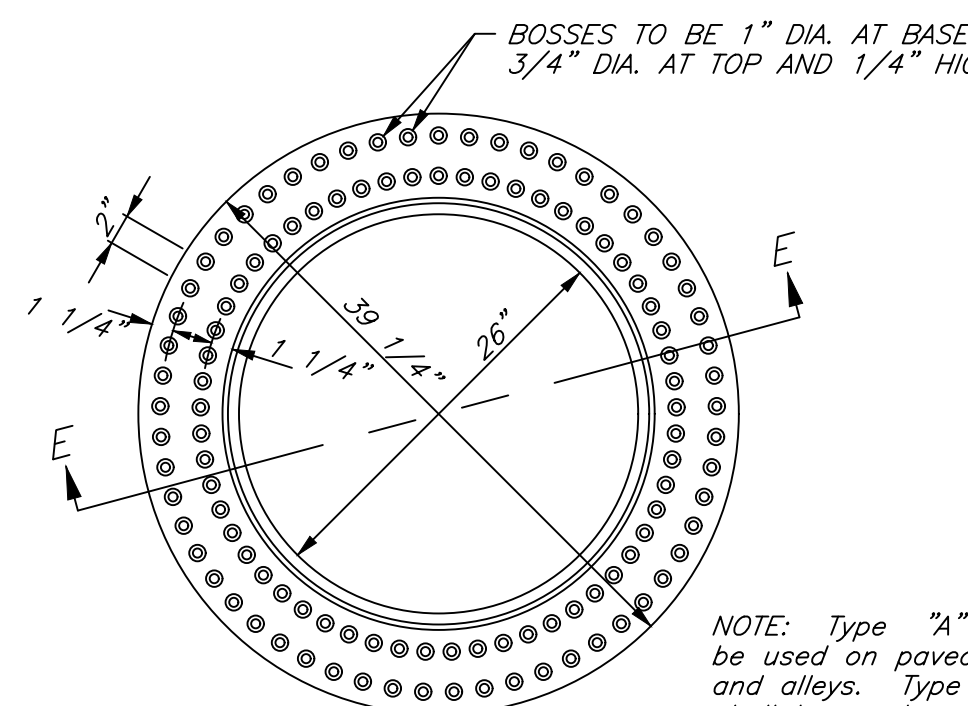
SECTION D - D
STANDARD COVER



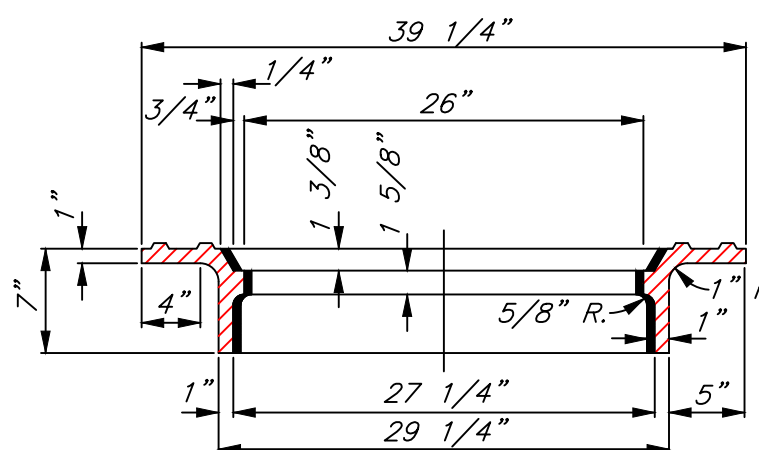
SECTION C - C

MANHOLE DROP CONNECTION

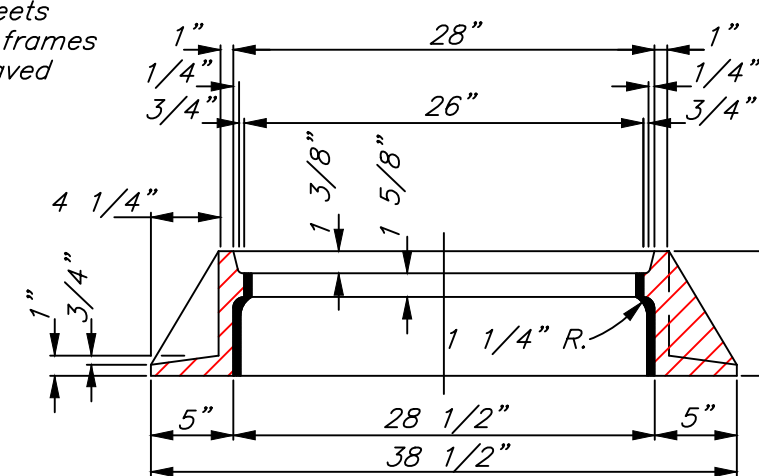
NOTE: BEDDING GRAVEL SHALL BE OF COMPOSED OF CRUSHED ROCK CONFORMING TO STANDARD SPECIFICATIONS, SECTION 703.01, TYPE A OR B.



NOTE: Type "A" frames shall be used on paved streets and alleys. Type "B" frames shall be used on unpaved streets and alleys.



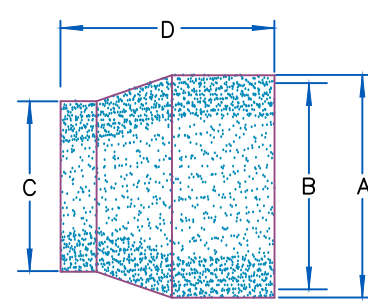
SECTION E - E
STANDARD FRAME
TYPE B



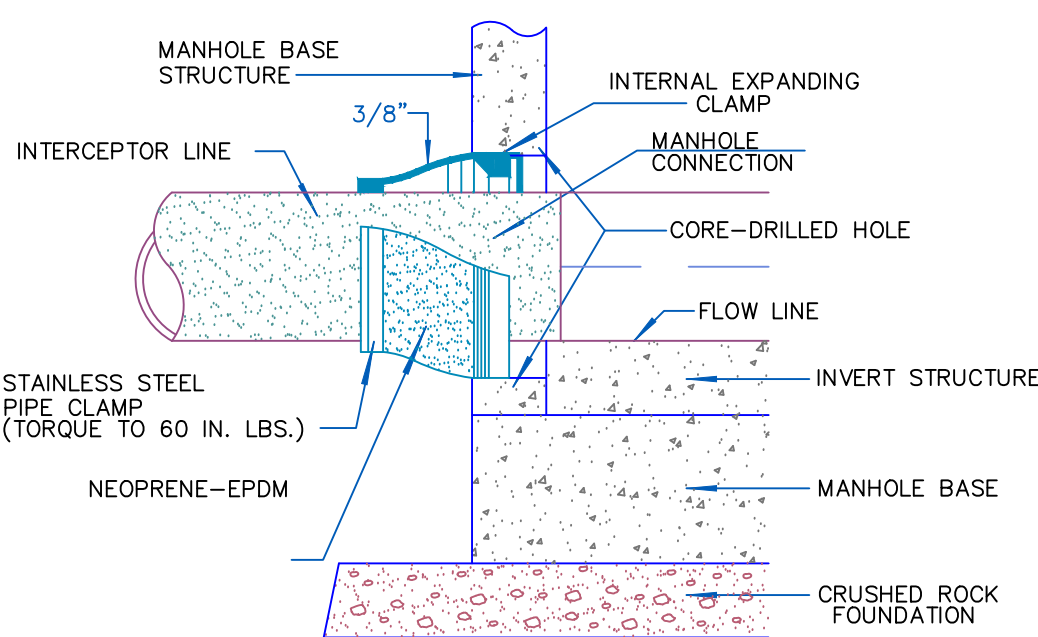
SECTION F - F
STANDARD FRAME
TYPE A

STANDARD
MANHOLE FRAMES

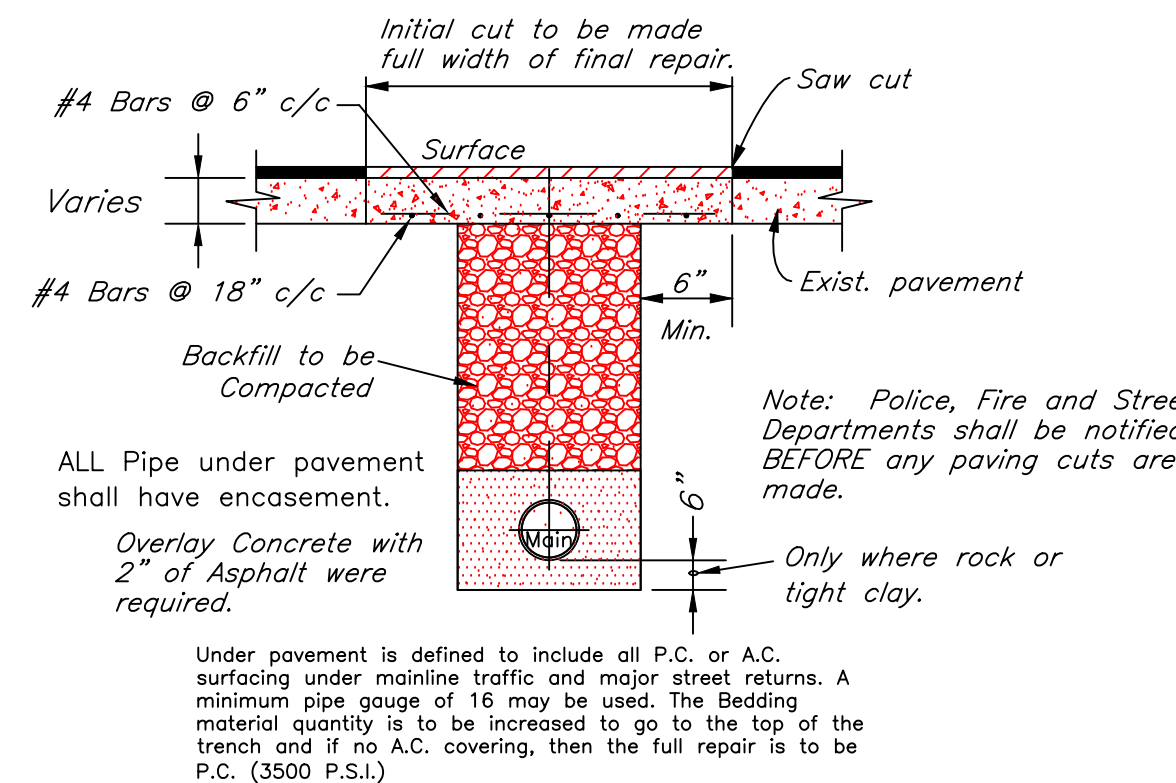
- NOTE:
1. ALL PIPE SHALL BE STAINLESS STEEL
2. NEOPRENE-EPDM BLENDED COMPOUND BOOT SHALL MEET ASTM C-923



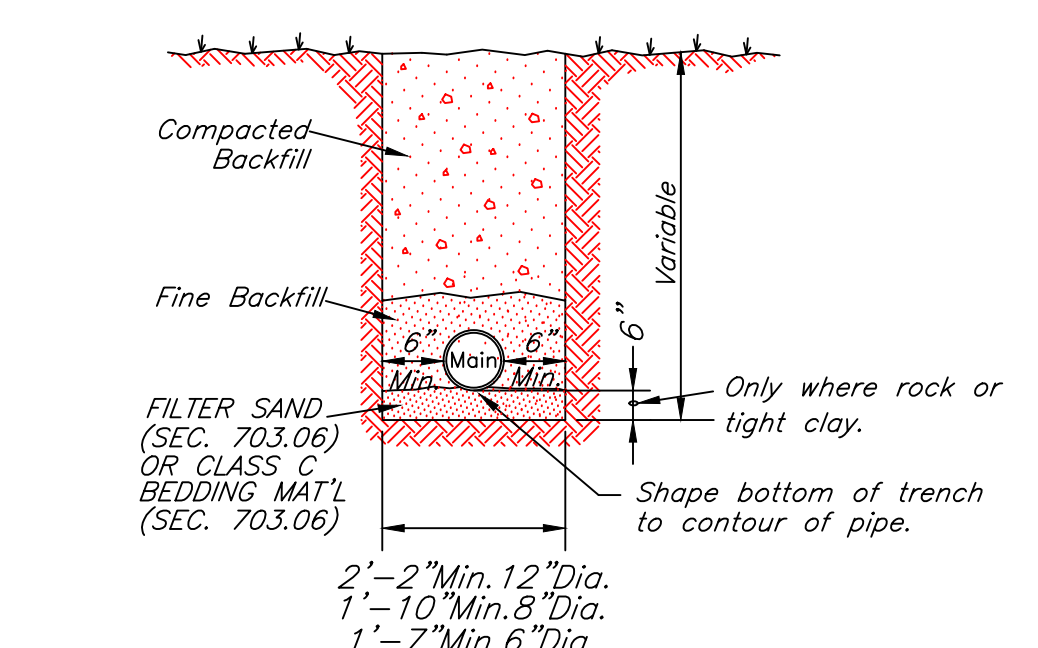
SUGGESTED PIPE O.D. RANGE (IN.)	HOLE & BOOT DIAMETER DIMENSIONS			
	A	B	C	D
3 1/2" - 4 1/2"	7"	6 1/8"	4 1/4"	6"
5 3/8" - 7"	12"	10 7/8"	6 1/2"	8"
8 1/2" - 8 1/2"	12"	10 7/8"	8"	8"
8 3/16" - 9 3/4"	12"	10 7/8"	9 1/4"	8"
9 1/4" - 11"	16"	14 7/8"	10 1/2"	8"
10 3/4" - 12 1/2"	16"	14 7/8"	12"	8"
12" - 13 3/4"	16"	14 7/8"	13 1/4"	8"
14 1/2" - 16 1/4"	20"	18 7/8"	15 3/4"	8"
15 3/4" - 17 1/2"	20"	18 7/8"	17"	8"
19 1/2" - 21 1/4"	24"	22 7/8"	20 3/4"	8"



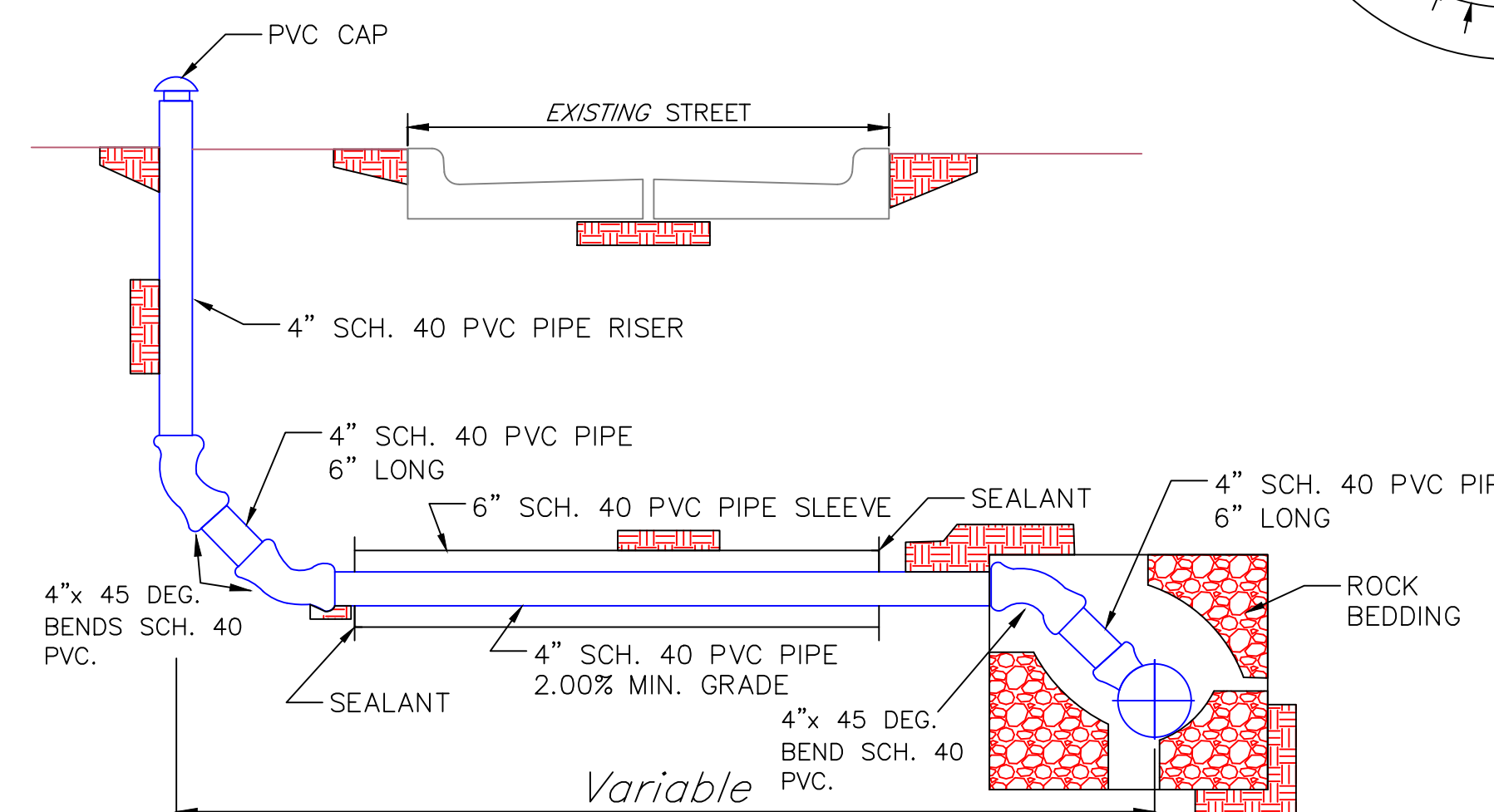
MANHOLE-PIPE CONNECTION



STREET CROSSING



TYPICAL TRENCH SECTION



STATE OF OKLAHOMA
Department of Environmental Quality
APPROVED
July 22 2024
Rocky W. Chen, P.E.
Water Quality Division
D. Adam Dvornik, P.E.
Construction Permitting Section

MIDWEST CITY ENGINEERING DEPARTMENT
STANDARD SEWER LINE DETAILS
F.A. PROJECT-NO Sheet No. D8.0
OKLAHOMA

REV. NO.	DATE	REVISIONS DESCRIPTION

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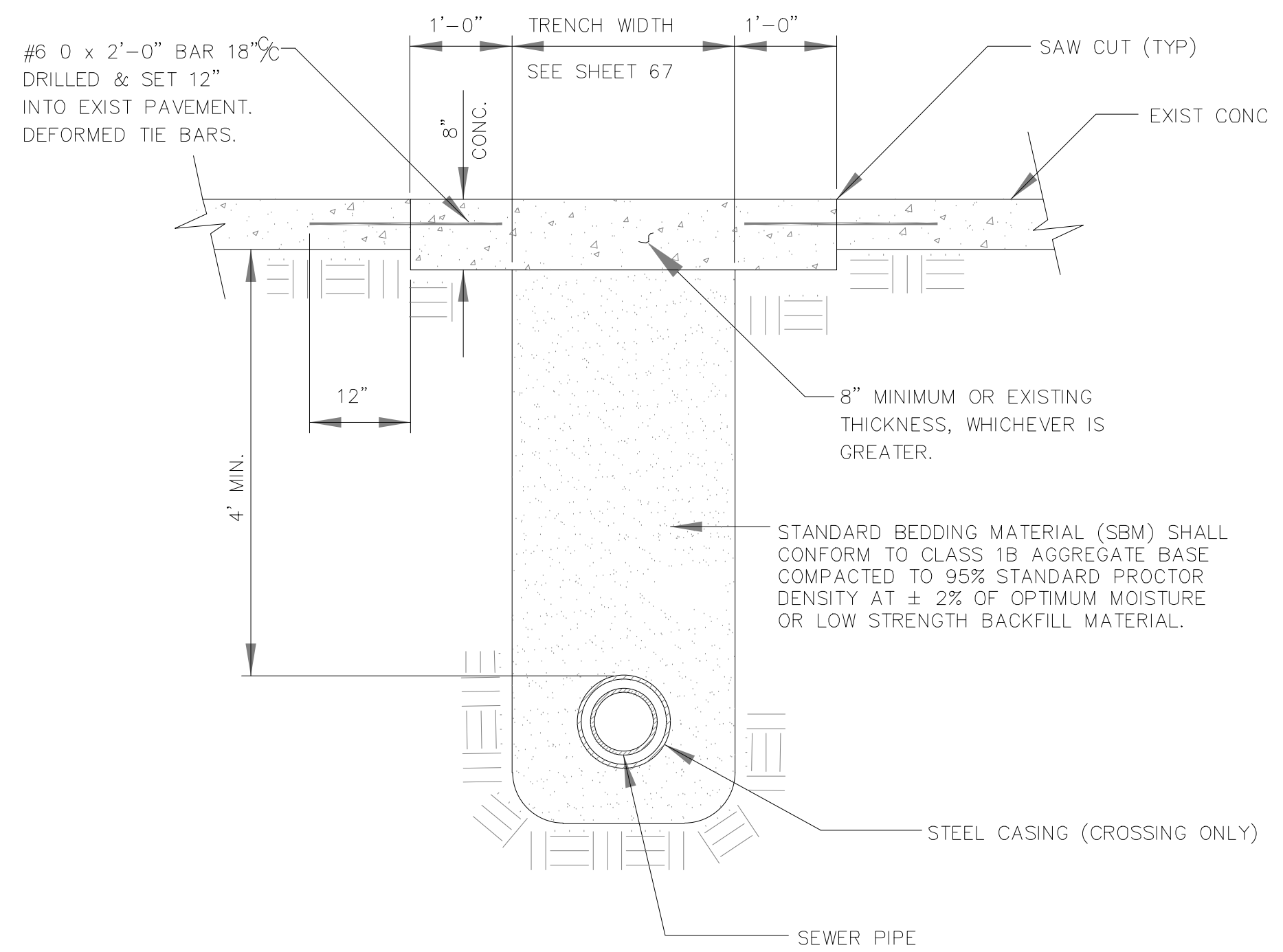
ISSUE FOR PERMIT

drawn by: SB
QAQC by: RK
date: 5/03/2024

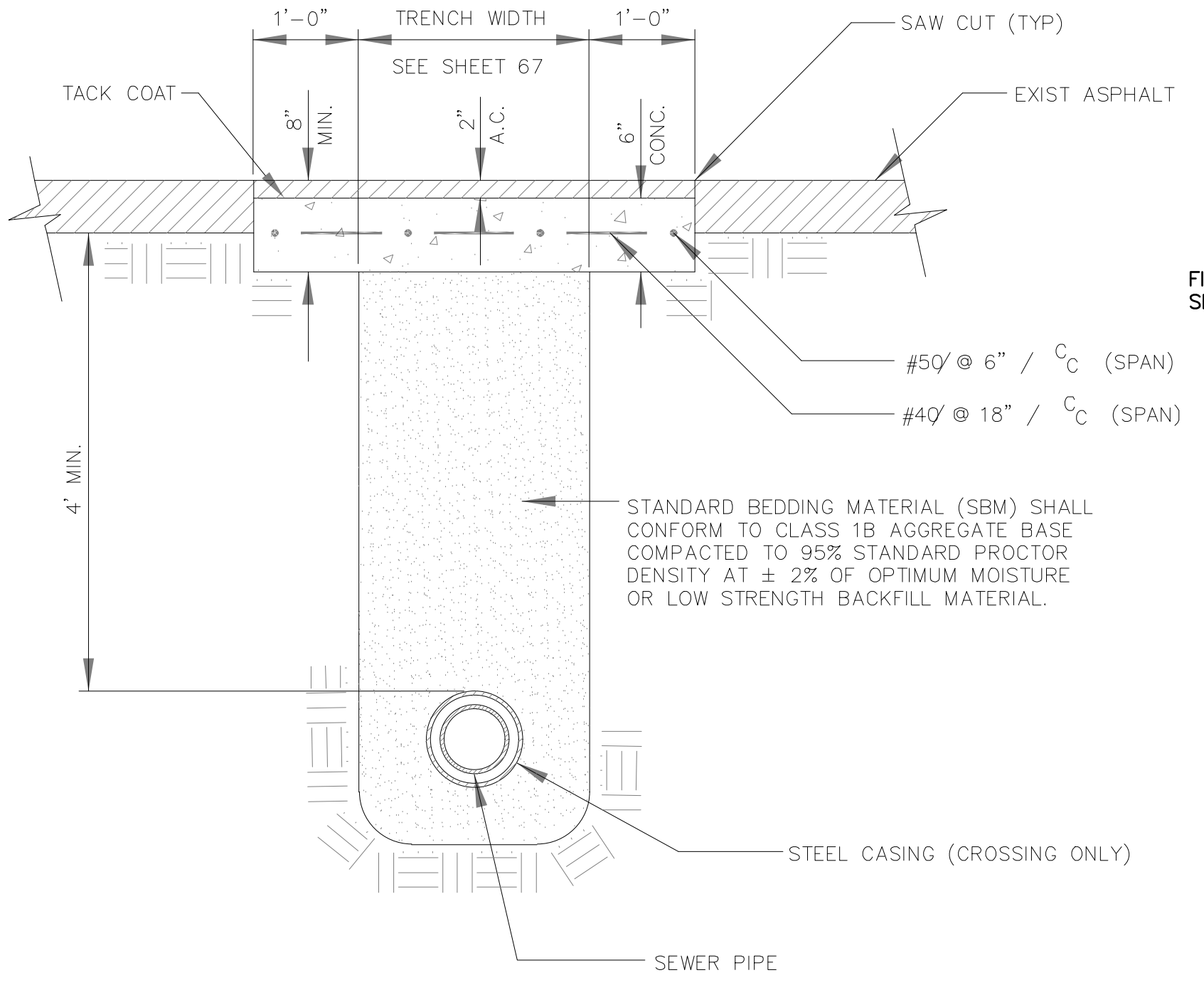
D6.0
01-2023-002



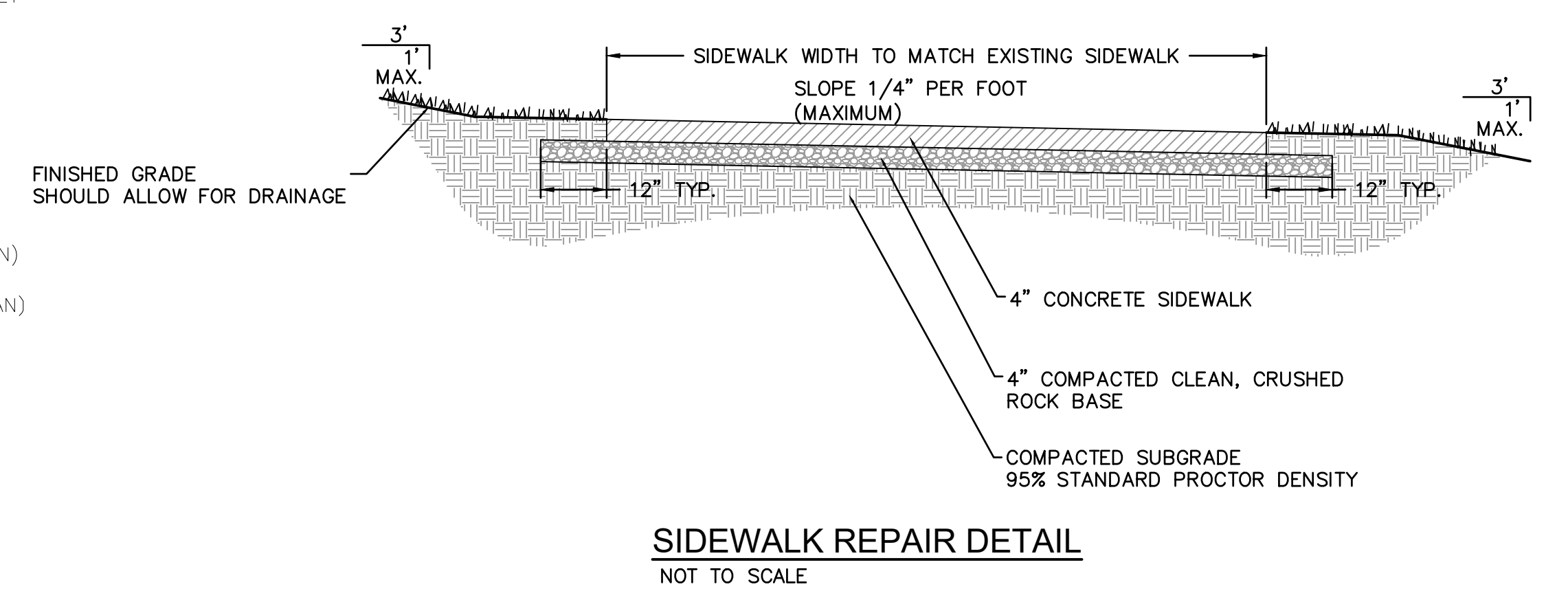
REVISIONS



CONCRETE REPAIR DETAIL
NOT TO SCALE



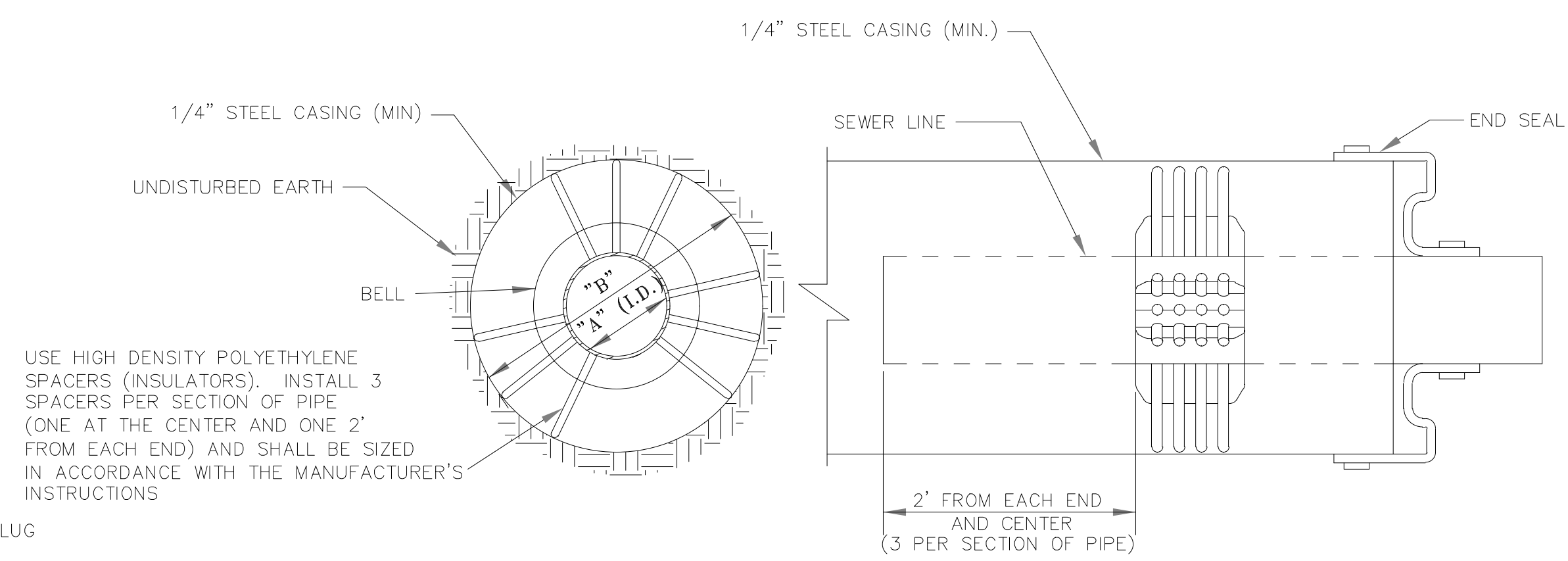
ASPHALT REPAIR DETAIL
NOT TO SCALE



SIDEWALK REPAIR DETAIL
NOT TO SCALE

PIPE & STEEL CASING SCHEDULE	
PIPE DIA. "A"	CASING DIA. "B"
6"	12"
8"	14" OR 16"
10"	18"
12"	20"
16"	24"
18"	26"
24"	33"

NOTE: CONSTRUCT WATER TIGHT PLUG AT EACH END OF CASING



NOTE: STEEL CASING PIPE SHALL CONFORM WITH ASTM A-139, STANDARD SPECIFICATION FOR ELECTRIC-FUSION(ARC)-WELDED STEEL PIPE (NPS4 AND OVER). THE STEEL MATERIAL SHALL BE NEW, SMOOTH WALL, CARBON STEEL, GRADE B, WITH A MINIMUM TENSILE STRENGTH, AND MINIMUM 35,000 PSI YIELD STRENGTH.

CASING DETAIL
NOT TO SCALE

REV. NO.	DATE	REVISIONS DESCRIPTION

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