

# SCRUGGS STATION WAREHOUSE SITE DEVELOPMENT AND SECURITY (JEFFERSON CITY, MISSOURI)



OWNER: STATE OF MISSOURI  
MIKE KEHOE,  
GOVERNOR  
DEPARTMENT OF  
OFFICE OF ADMINISTRATION

PROJECT  
MANAGEMENT: OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES MANAGEMENT,  
DESIGN AND CONSTRUCTION

DESIGNER: CENTRAL MISSOURI PROFESSIONAL  
SERVICES, INC.

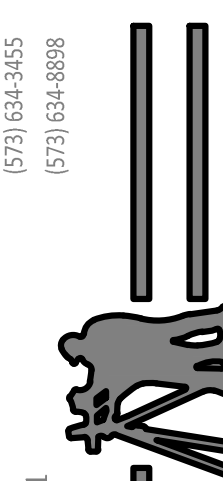
PROJECT NUMBER: 02433-08

SITE NUMBER: 1046  
FACILITY NUMBER: 3101046001



02/11/25

Central Missouri Professional Services, Inc.  
ENGINEERING - SURVEYING - MATERIALS TESTING  
2500 E. McCARTY  
JEFFERSON CITY, MISSOURI 65101



Central Missouri Professional Services, Inc.  
Missouri State Certificate of Authority #001558

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
Office of  
Administration

SITE DEVELOPMENT  
AND SECURITY

SCRUGGS STATION  
WAREHOUSE  
4720 SCRUGGS STATION RD.  
JEFFERSON CITY, MO. 65109

PROJECT # 0243308  
SITE # 1046  
FACILITY # 3101046001

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 2/11/2025

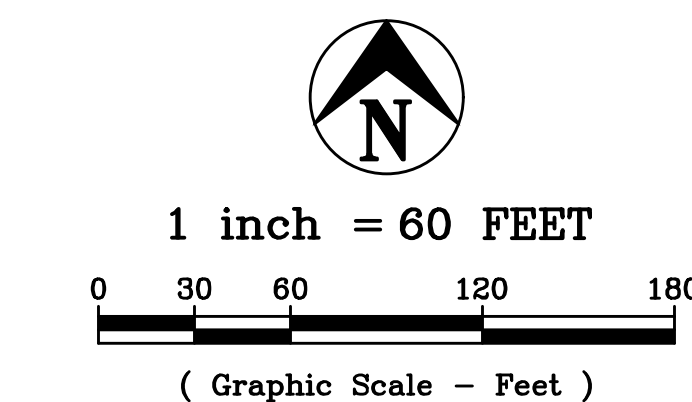
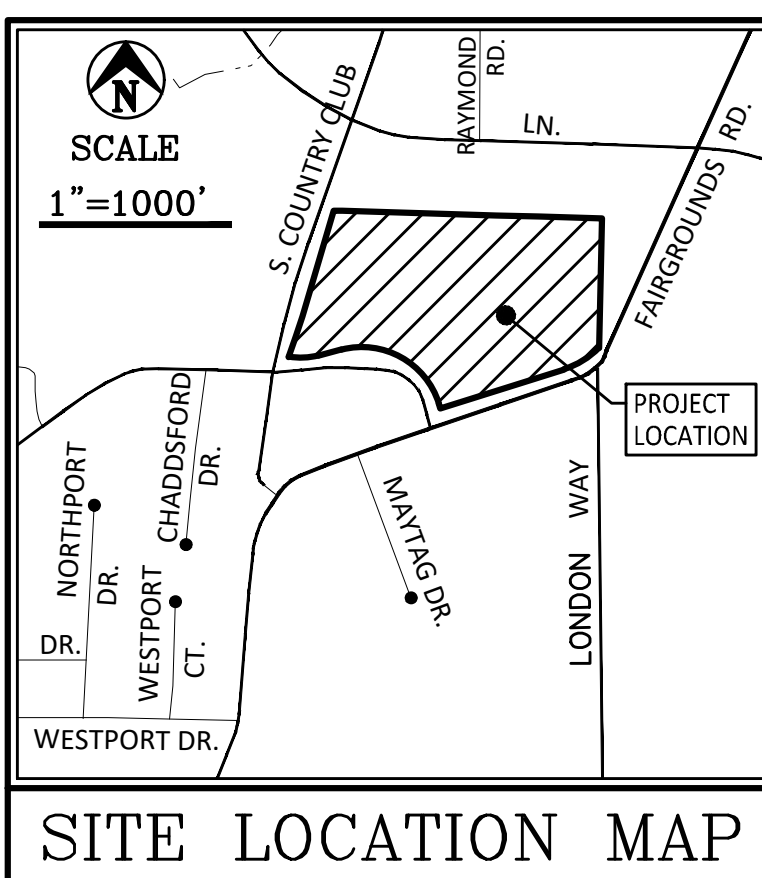
CAD DWG FILE: S1-099 State OA Fleet  
DRAWN BY: GJS  
CHECKED BY: GJS  
DESIGNED BY: GJS

SHEET TITLE:  
TOPO SURVEY  
& DEMO PLAN

SHEET NUMBER:

**C100**

2 OF 9 SHEETS  
02/11/2025



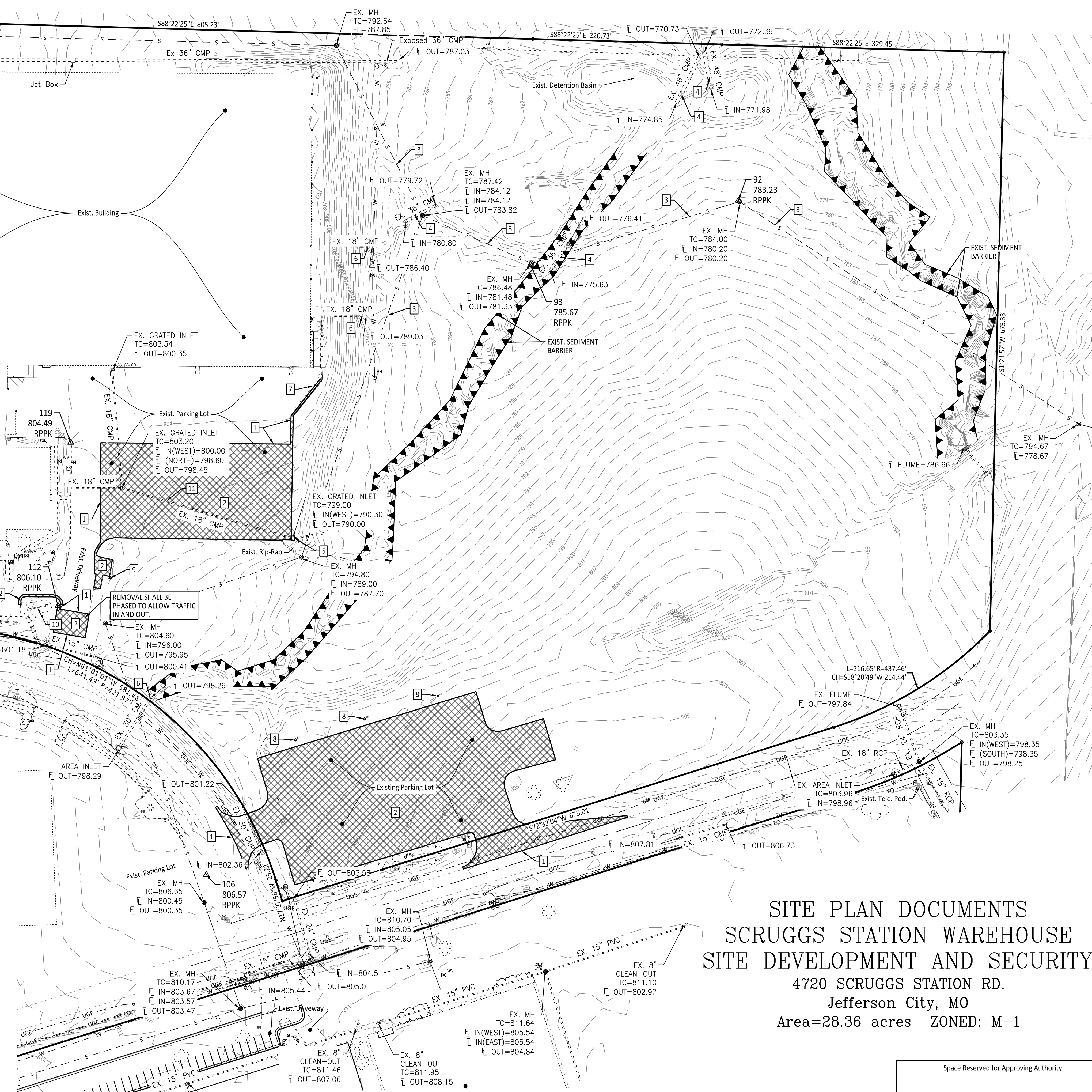
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- KEY NOTES**
- 1 Full Depth Saw Cut Existing Pavement/Sidewalk as Required
  - 2 Remove Existing Pavement, Sidewalk, and/or Curb
  - 3 Relocated/Replace Sanitary Sewer lines and Manhole's. See Sheet C102 & C201 for new location.
  - 4 Remove Existing CMP
  - 5 Remove Existing Drop Inlet and Existing Outlet CMP
  - 6 Remove Existing end of CMP as required to fit into new Storm Structure
  - 7 Remove Existing Guardrail
  - 8 Remove Existing Light Poles
  - 9 Remove Existing Light Poles, Use Existing underground electric to tie into new parking lot Light Poles, See Sheet C102
  - 10 Remove Sign, Lighting, and Landscaping, gates, etc.
  - 11 Remove and Replace 18" CMP with 18" HDPP, See Sheet C200.

Point #	Elevation	Northing	Easting	Description
90	816.77	993678.56	1702861.47	RPIP/SET
91	813.74	994261.74	1703014.65	RPIP/SET
92	783.23	994153.95	1704142.28	RPPK
93	785.67	994079.12	1703899.68	RPPK
106	806.57	993366.90	1703521.00	RPPK
112	806.10	993680.74	1703347.76	RPPK
119	804.49	993871.45	1703362.68	RPPK



NOTE: The Contractor will be responsible to call the Missouri One Call System 1-800-344-7483 and have the underground utilities marked or remarked prior to any construction.  
NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES, HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



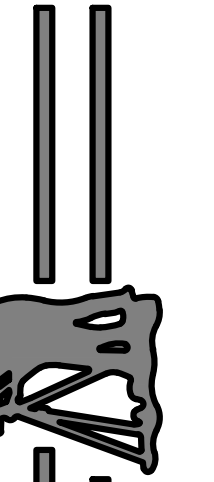
SITE PLAN DOCUMENTS  
SCRUGGS STATION WAREHOUSE  
SITE DEVELOPMENT AND SECURITY  
4720 SCRUGGS STATION RD.  
Jefferson City, MO  
Area=28.36 acres ZONED: M-1

Space Reserved for Approving Authority



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FACILITY # 3101046001

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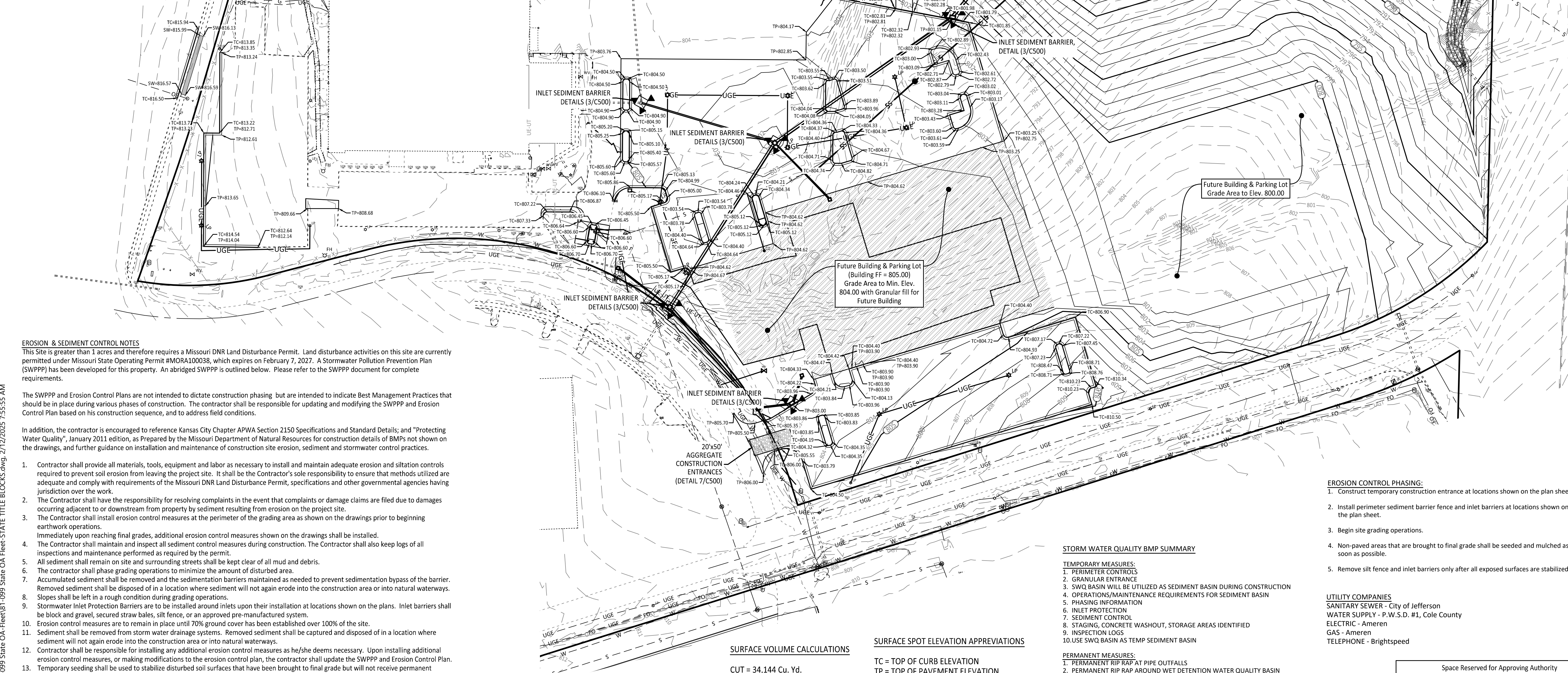
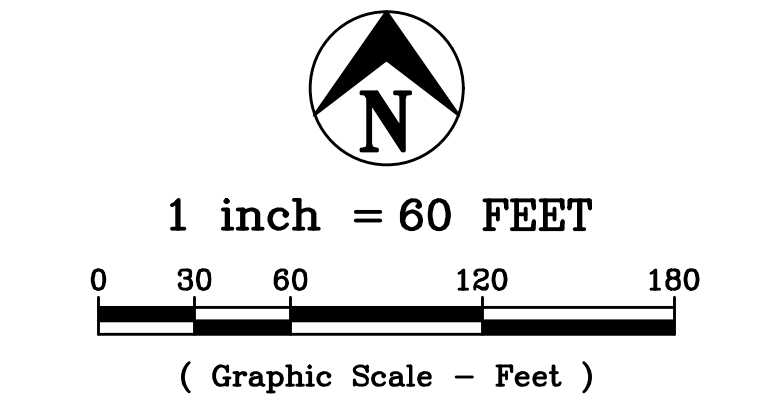
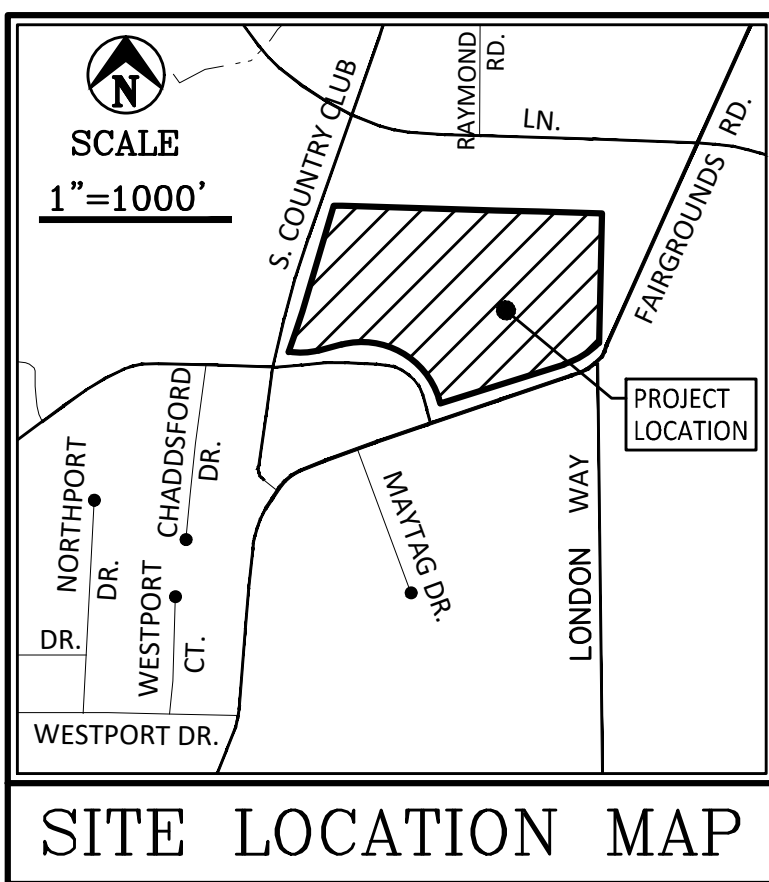
CAD DWG FILE: 81-099 State OA Fleet  
DRAWN BY: GJS  
CHECKED BY: GJS  
DESIGNED BY: GJS

SHEET TITLE:  
GRADING & EROSION  
CONTROL PLAN

SHEET NUMBER:

C101

3 OF 9 SHEETS  
02/11/2025



**EROSION & SEDIMENT CONTROL NOTES**  
This Site is greater than 1 acre and therefore requires a Missouri DNR Land Disturbance Permit. Land disturbance activities on this site are currently permitted under Missouri State Operating Permit #MORA100038, which expires on February 7, 2027. A Stormwater Pollution Prevention Plan (SWPPP) has been developed for this property. An abridged SWPPP is outlined below. Please refer to the SWPPP document for complete requirements.

The SWPPP and Erosion Control Plans are not intended to dictate construction phasing, but are intended to indicate Best Management Practices that should be in place during various phases of construction. The contractor shall be responsible for updating and modifying the SWPPP and Erosion Control Plan based on his construction sequence, and to address field conditions.

In addition, the contractor is encouraged to reference Kansas City Chapter APWA Section 2150 Specifications and Standard Details; and "Protecting Water Quality", January 2011 edition, as Prepared by the Missouri Department of Natural Resources for construction details of BMPs not shown on the drawings, and further guidance on installation and maintenance of construction site erosion, sediment and stormwater control practices.

- 1. Contractor shall provide all materials, tools, equipment and labor as necessary to install and maintain adequate erosion and siltation controls required to prevent soil erosion from leaving the project site. It shall be the Contractor's sole responsibility to ensure that methods utilized are adequate and comply with requirements of the Missouri DNR Land Disturbance Permit, specifications and other governmental agencies having jurisdiction over the work.
- 2. The Contractor shall have the responsibility for resolving complaints in the event that complaints or damage claims are filed due to damages occurring adjacent to or downstream from property by sediment resulting from erosion on the project site.
- 3. The Contractor shall install erosion control measures at the perimeter of the grading area as shown on the drawings prior to beginning earthwork operations. Immediately upon reaching final grades, additional erosion control measures shown on the drawings shall be installed.
- 4. The Contractor shall maintain and inspect all sediment control measures during construction. The Contractor shall also keep logs of all inspections and maintenance performed as required by the permit.
- 5. All sediment shall remain on site and surrounding streets shall be kept clear of all mud and debris.
- 6. The contractor shall phase grading operations to minimize the amount of disturbed area.
- 7. Accumulated sediment shall be removed and the sedimentation barriers maintained as needed to prevent sedimentation bypass of the barrier. Removed sediment shall be disposed of in a location where sediment will not again erode into the construction area or into natural waterways.
- 8. Slopes shall be left in a rough condition during grading operations.
- 9. Stormwater Inlet Protection Barriers are to be installed around inlets upon their installation at locations shown on the plans. Inlet barriers shall be block and gravel, secured straw bales, silt fence, or an approved pre-manufactured system.
- 10. Erosion control measures are to remain in place until 70% ground cover has been established over 100% of the site.
- 11. Sediment shall be removed from storm water drainage systems. Removed sediment shall be captured and disposed of in a location where sediment will not again erode into the construction area or into natural waterways.
- 12. Contractor shall be responsible for installing any additional erosion control measures as he/she deems necessary. Upon installing additional erosion control measures, or making modifications to the erosion control plan, the contractor shall update the SWPPP and Erosion Control Plan.
- 13. Temporary seeding shall be used to stabilize disturbed soil surfaces that have been brought to final grade but will not receive permanent seeding within 30 days of completing grading. A qualified professional shall be consulted to recommend necessary soil amendments, and seeding mixtures. Temporary seeding of rock fill slopes will not be required.
- 14. All disturbed areas that are not paved or within landscape areas shall be seeded and mulched.

**SURFACE VOLUME CALCULATIONS**  
CUT = 34,144 Cu. Yd.  
FILL = 78,444 Cu. Yd.  
NEEDED FILL = 44,300 Cu. Yd.

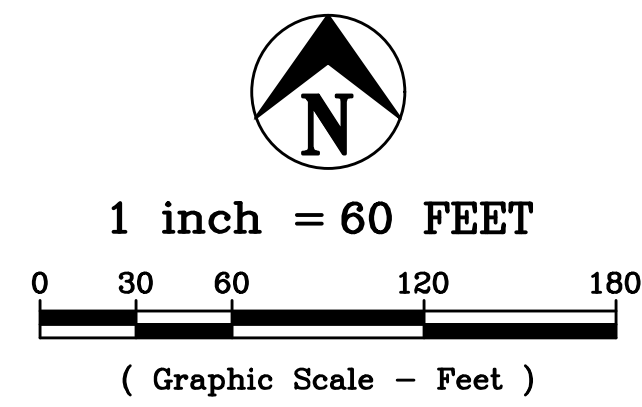
- STORM WATER QUALITY BMP SUMMARY**
- TEMPORARY MEASURES:**  
1. PERIMETER CONTROLS  
2. GRANULAR ENTRANCE  
3. SWQ BASIN WILL BE UTILIZED AS SEDIMENT BASIN DURING CONSTRUCTION  
4. OPERATIONS/MAINTENANCE REQUIREMENTS FOR SEDIMENT BASIN  
5. PHASING INFORMATION  
6. INLET PROTECTION  
7. SEDIMENT CONTROL  
8. STAGING, CONCRETE WASHOUT, STORAGE AREAS IDENTIFIED  
9. INSPECTION LOGS  
10. USE SWQ BASIN AS TEMP SEDIMENT BASIN
- PERMANENT MEASURES:**  
1. PERMANENT RIP RAP AT PIPE OUTFALLS  
2. PERMANENT RIP RAP AROUND WET DETENTION WATER QUALITY BASIN  
3. PERMANENT RIP RAP ALONG EXIST DRAINAGE DITCH  
4. PERMANENT SEEDING  
5. WET DETENTION WATER QUALITY BASIN  
6. OPERATIONS/MAINTENANCE REQUIREMENTS FOR WET DETENTION WATER QUALITY BASIN

- EROSION CONTROL PHASING:**
- 1. Construct temporary construction entrance at locations shown on the plan sheet.
  - 2. Install perimeter sediment barrier fence and inlet barriers at locations shown on the plan sheet.
  - 3. Begin site grading operations.
  - 4. Non-paved areas that are brought to final grade shall be seeded and mulched as soon as possible.
  - 5. Remove silt fence and inlet barriers only after all exposed surfaces are stabilized.

**UTILITY COMPANIES**  
SANITARY SEWER - City of Jefferson  
WATER SUPPLY - P.W.S.D. #1, Cole County  
ELECTRIC - Ameren  
GAS - Ameren  
TELEPHONE - Brightspeed

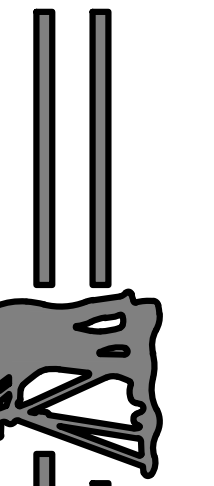
Space Reserved for Approving Authority

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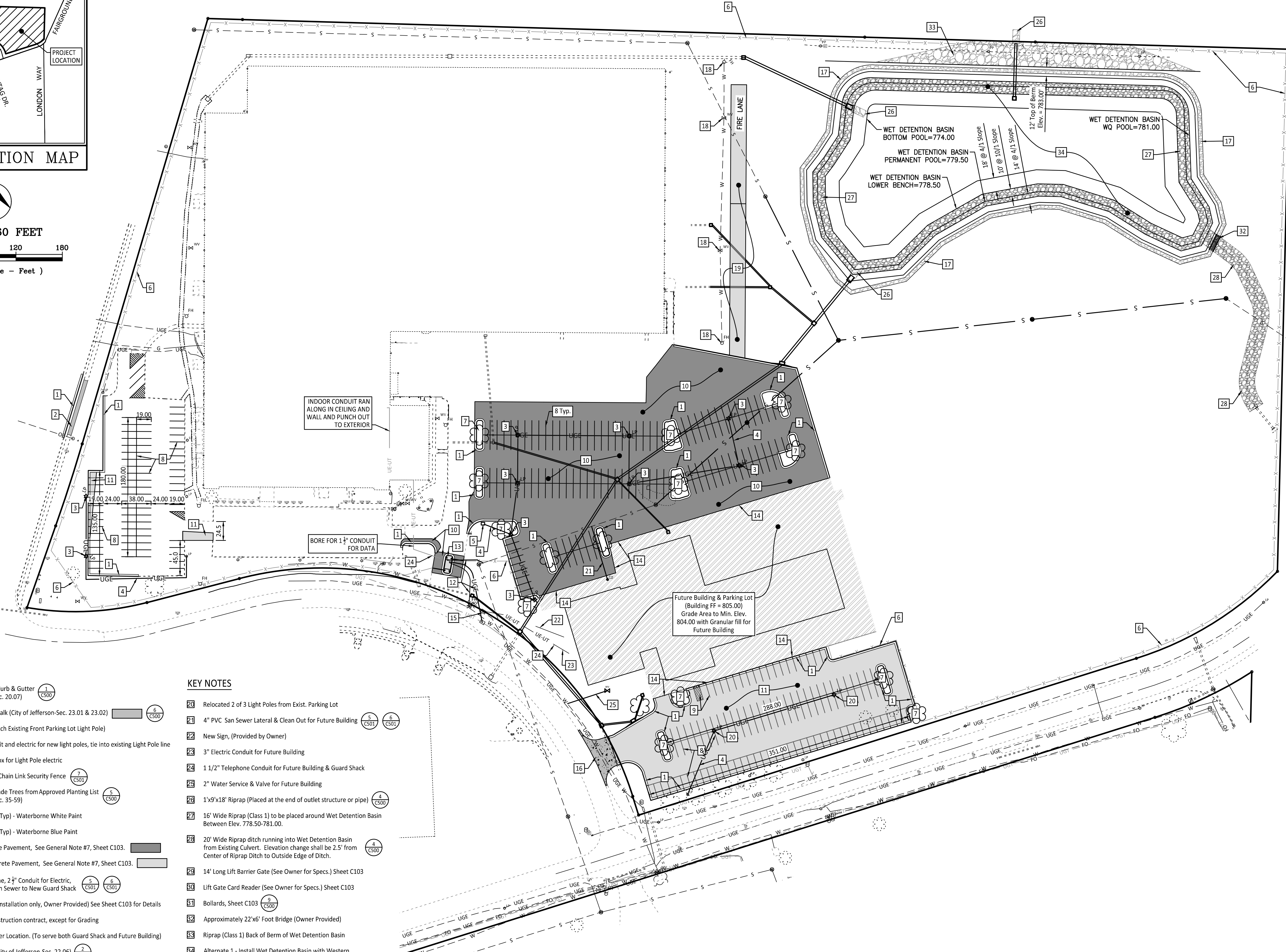
CAD DWG FILE: 81-099 State OA Fleet  
DRAWN BY: GJS  
CHECKED BY: GJS  
DESIGNED BY: GJS

SHEET TITLE:  
SITE PLAN

SHEET NUMBER:

C102

4 OF 9 SHEETS  
02/11/2025



KEY NOTES

- 1 Type "A" Concrete Curb & Gutter (City of Jefferson-Sec. 20.07)
- 2 5' Wide Conc. Sidewalk (City of Jefferson-Sec. 23.01 & 23.02)
- 3 LED Light Poles (Match Existing Front Parking Lot Light Pole)
- 4 Underground conduit and electric for new light poles, tie into existing Light Pole line
- 5 Underground pull box for Light Pole electric
- 6 6' Black Galvanized Chain Link Security Fence
- 7 Medium Canopy Shade Trees from Approved Planting List (City of Jefferson-Sec. 35-59)
- 8 Pavement Marking (Typ) - Waterborne White Paint
- 9 Pavement Marking (Typ) - Waterborne Blue Paint
- 10 Heavy Duty Concrete Pavement, See General Note #7, Sheet C103.
- 11 Standard Duty Concrete Pavement, See General Note #7, Sheet C103.
- 12 Provide 1" Water Line, 2" Conduit for Electric, & 4" PVC Lateral San Sewer to New Guard Shack
- 13 New Guard Shack, (Installation only, Owner Provided) See Sheet C103 for Details
- 14 Edge of current construction contract, except for Grading
- 15 Electrical Transformer Location. (To serve both Guard Shack and Future Building)
- 16 Commercial Drive (City of Jefferson-Sec. 22.06)
- 17 5' wide Chat Sidewalk, with Barrier Cloth Underneath
- 18 Raise Exist. Water Values and Fire Hydrant to New Grade & Fire Department Specs.
- 19 20' wide Regular Duty Concrete Pavement Fire Lane. (No Curb and Gutter)

KEY NOTES

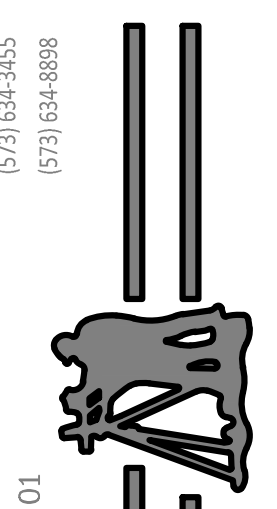
- 20 Relocated 2 of 3 Light Poles from Exist. Parking Lot
- 21 4" PVC San Sewer Lateral & Clean Out for Future Building
- 22 New Sign, (Provided by Owner)
- 23 3" Electric Conduit for Future Building
- 24 1 1/2" Telephone Conduit for Future Building & Guard Shack
- 25 2" Water Service & Valve for Future Building
- 26 1'x9'x18' Riprap (Placed at the end of outlet structure or pipe)
- 27 16' Wide Riprap (Class 1) to be placed around Wet Detention Basin Between Elev. 778.50-781.00.
- 28 20' Wide Riprap ditch running into Wet Detention Basin from Existing Culvert. Elevation change shall be 2.5' from Center of Riprap Ditch to Outside Edge of Ditch.
- 29 14' Long Lift Barrier Gate (See Owner for Specs.) Sheet C103
- 30 Lift Gate Card Reader (See Owner for Specs.) Sheet C103
- 31 Bollards, Sheet C103
- 32 Approximately 22'x6' Foot Bridge (Owner Provided)
- 33 Riprap (Class 1) Back of Berm of Wet Detention Basin
- 34 Alternate 1 - Install Wet Detention Basin with Western Environmental Geomembrane Liner (Aqua 30 Coext) or equivalent.

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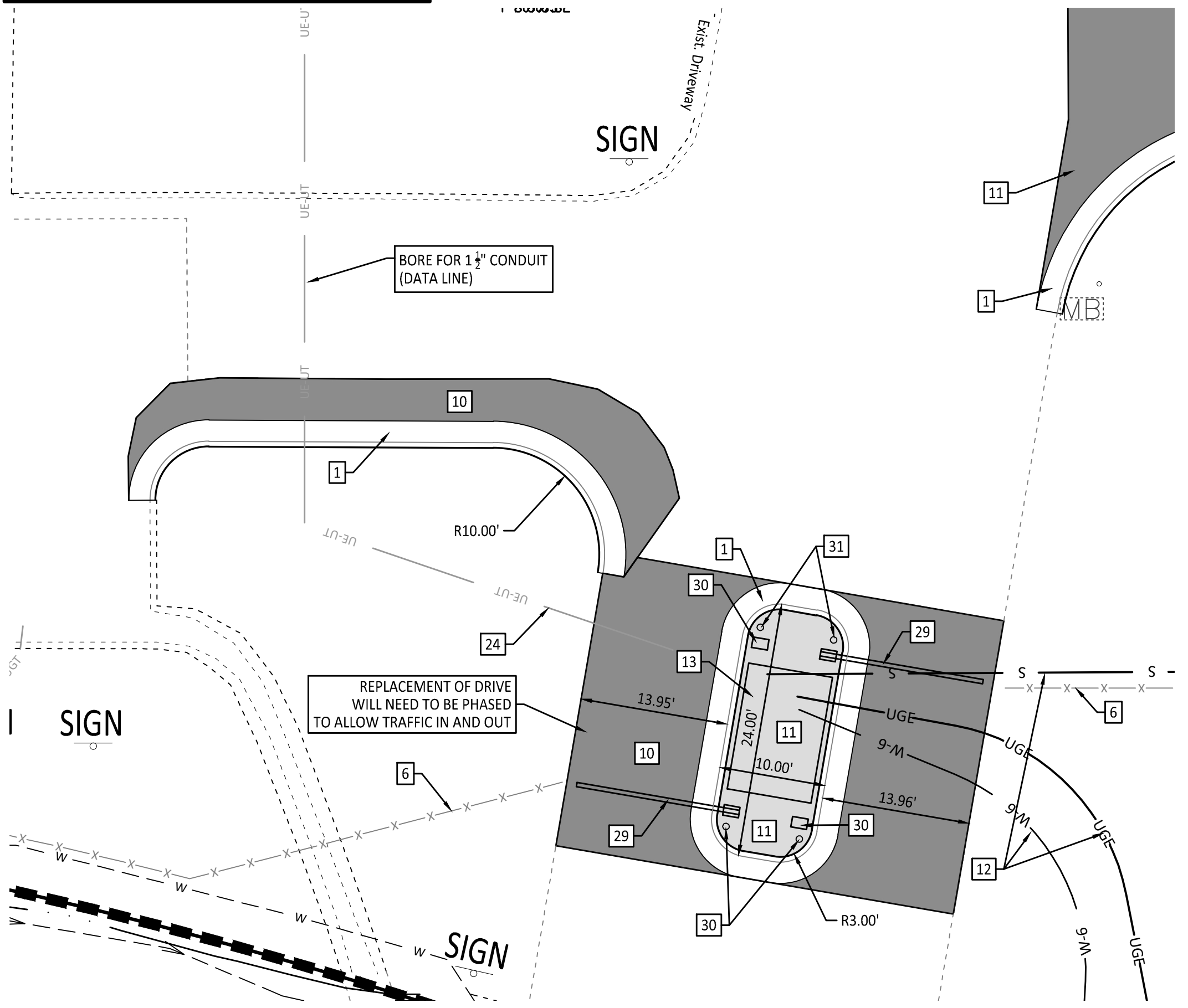
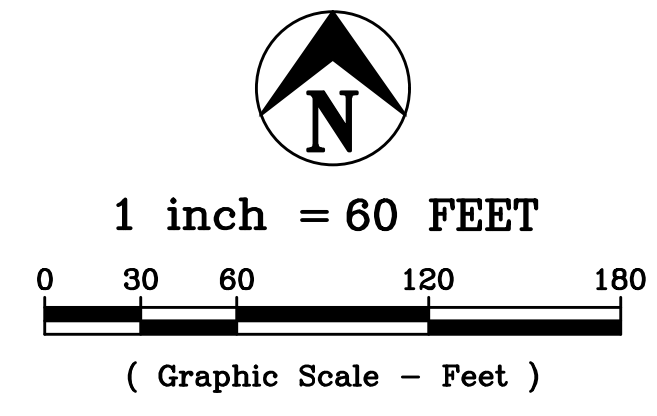
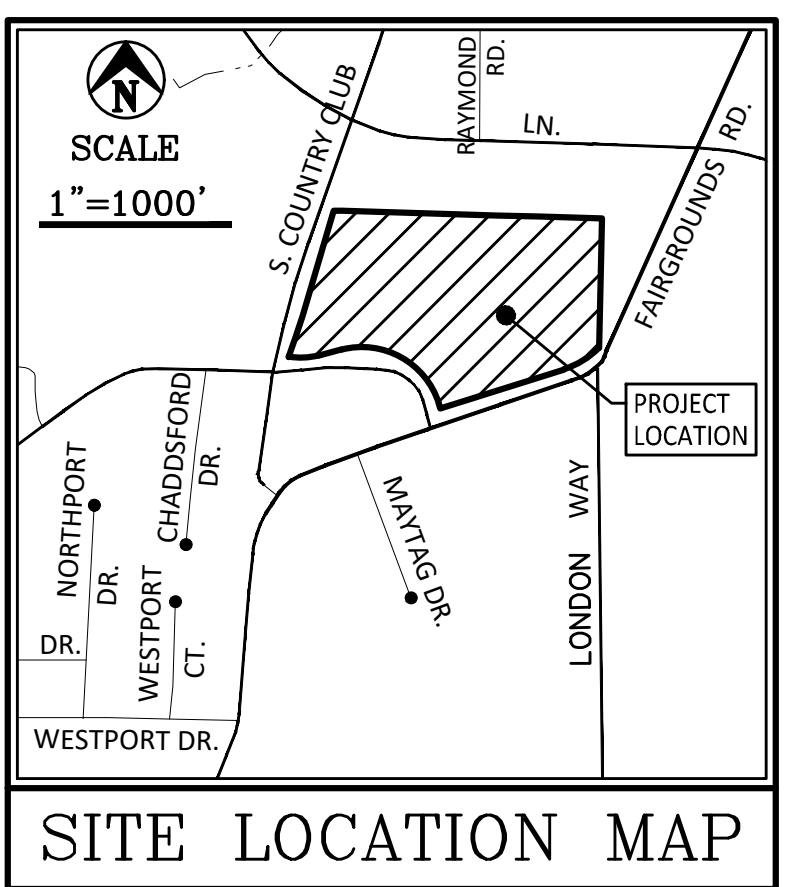
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CHECKED BY: GJS  
DESIGNED BY: GJS

SHEET TITLE:  
**SITE PLAN  
DETAILS**

SHEET NUMBER:

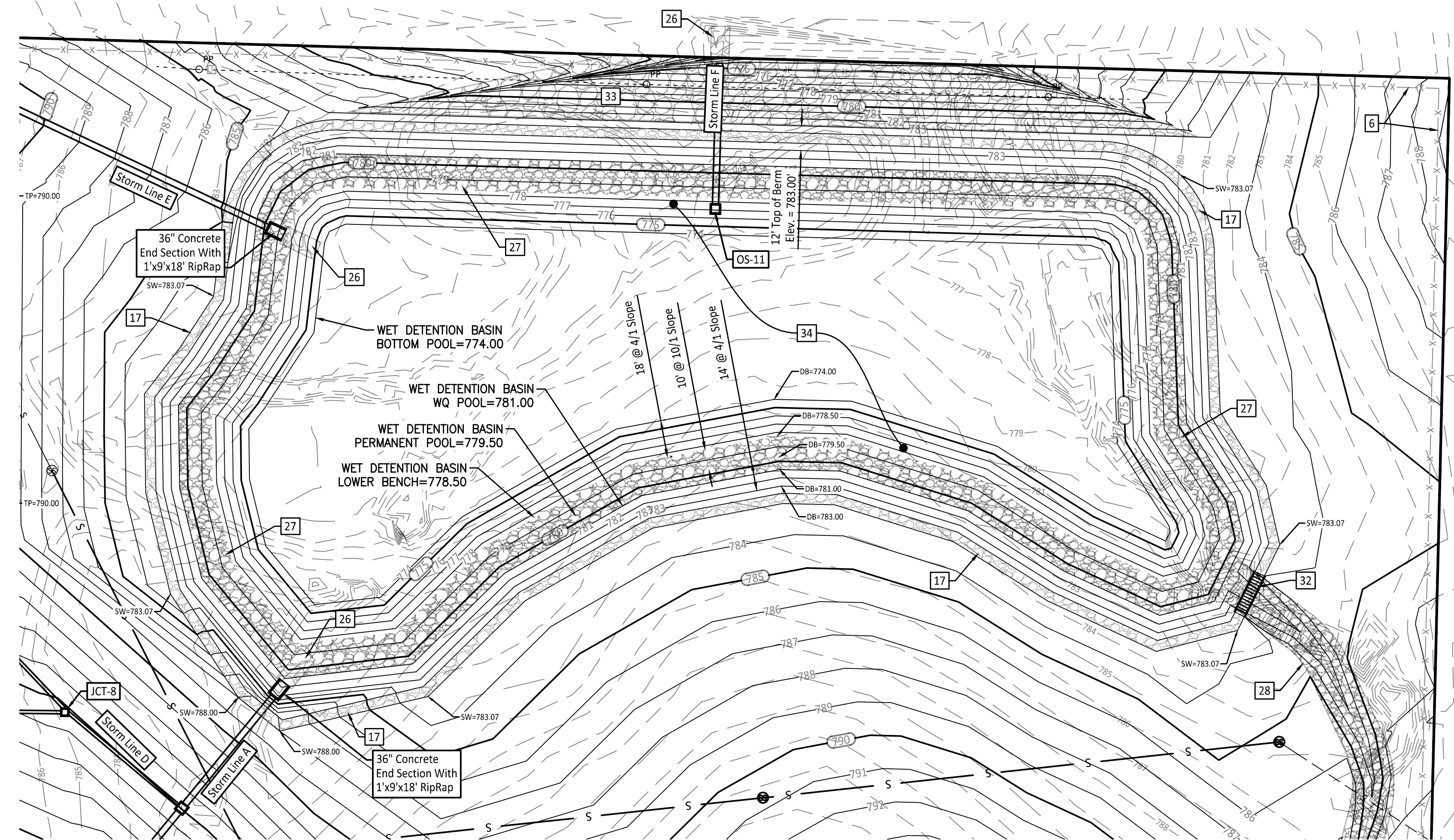
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5 OF 9 SHEETS  
02/11/2025

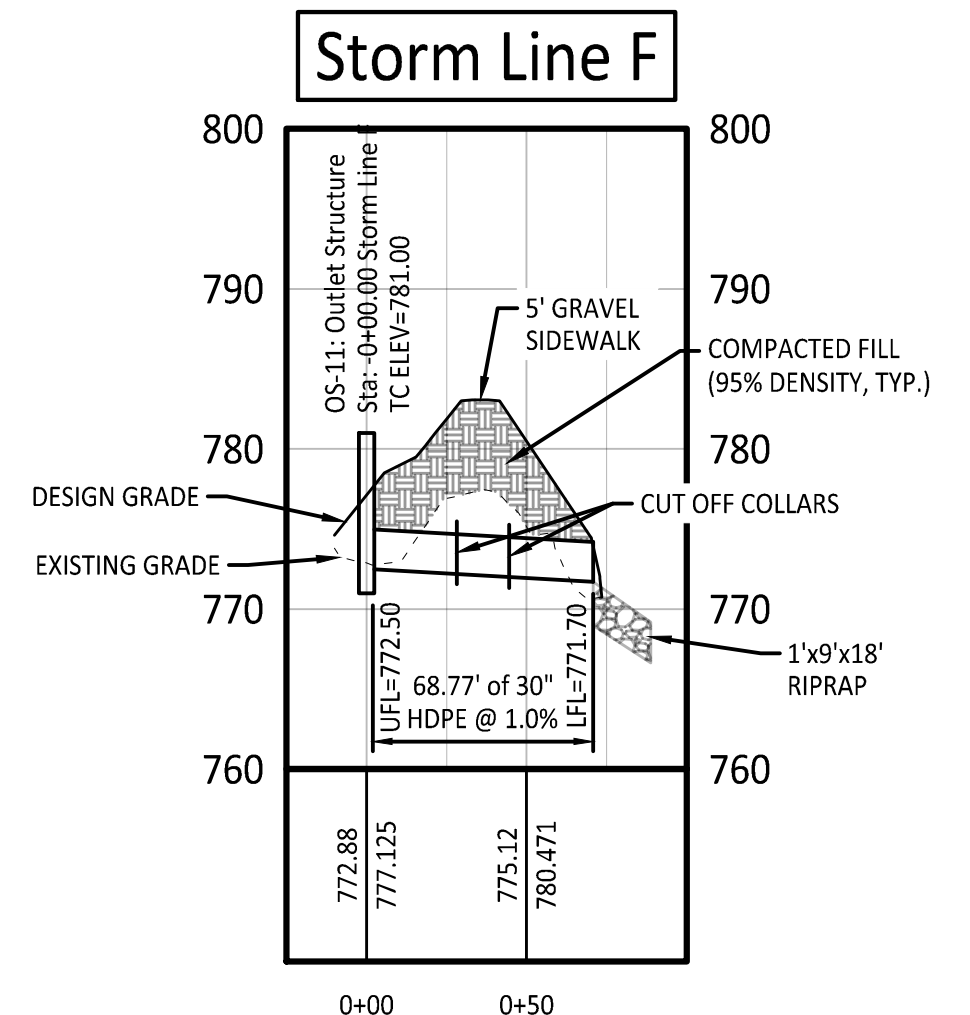


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  - 4 Underground conduit and electric for new light poles, tie into existing Light Pole line
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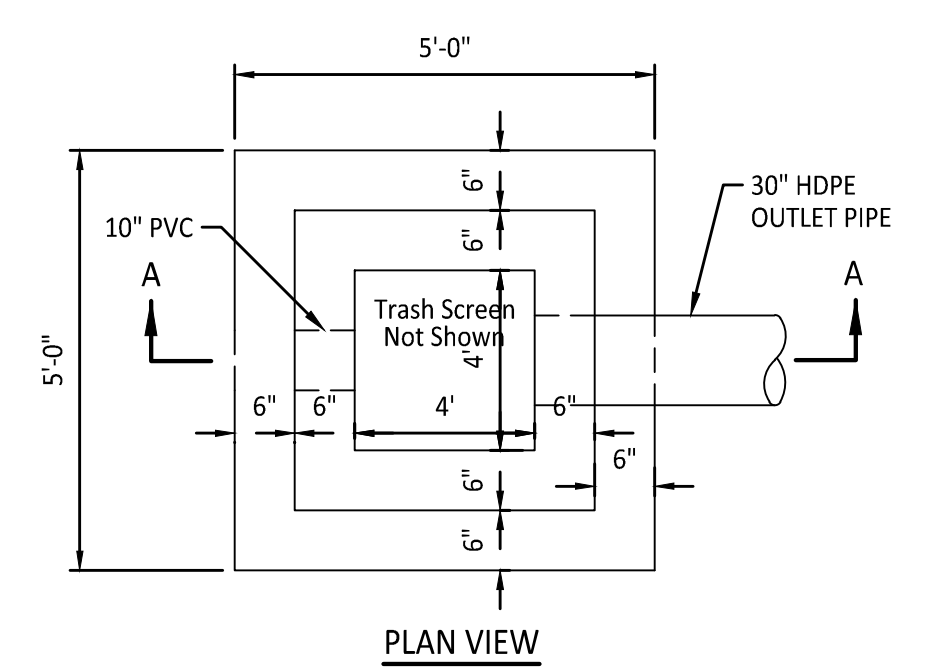
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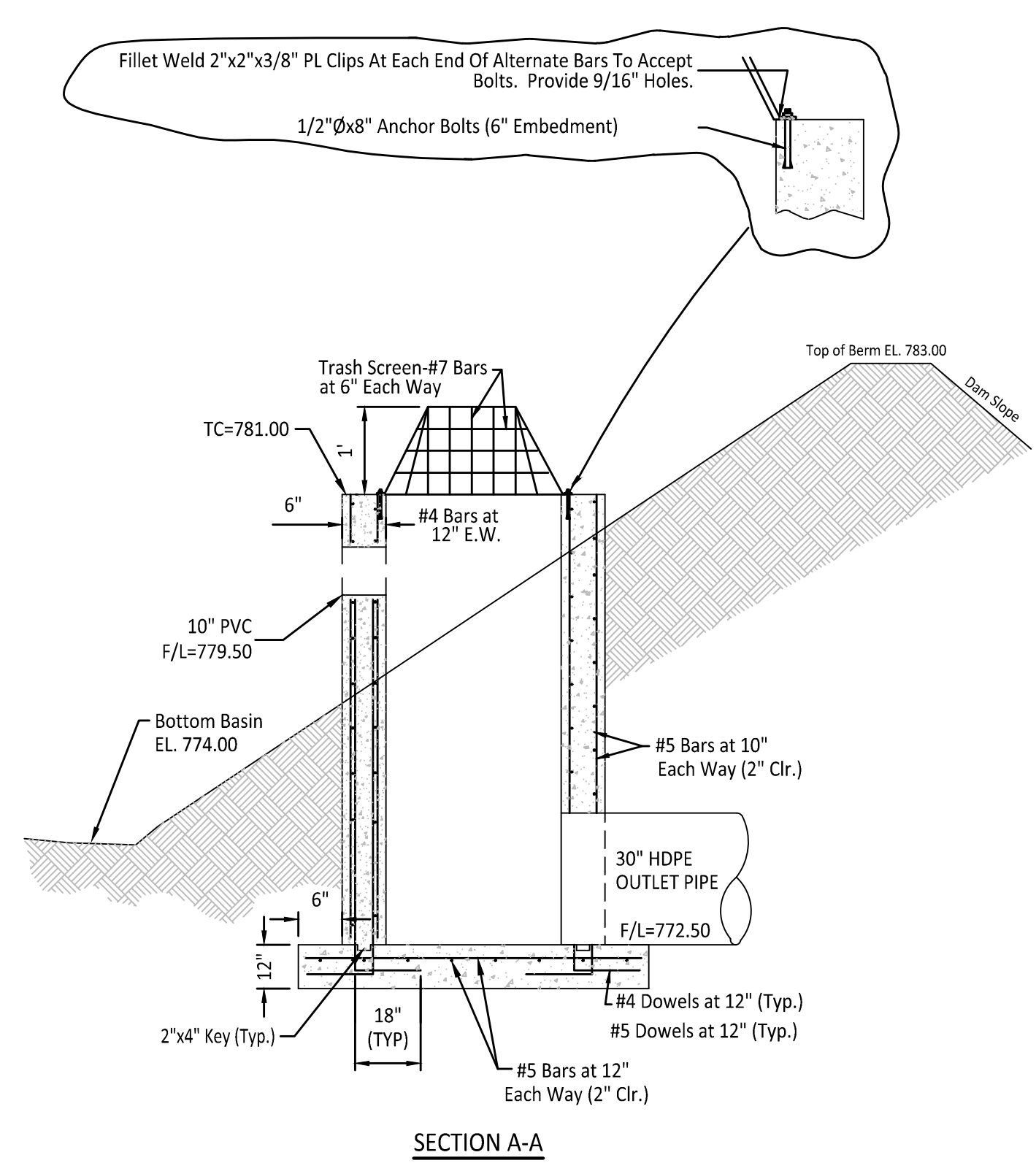
DETENTION BASIN (PLAN)  
(1"=40')



DETENTION BASIN (PROFILE)  
(H 1"=60, V 1"=12')



DETENTION BASIN  
OUTLET STRUCTURE  
NOT TO SCALE

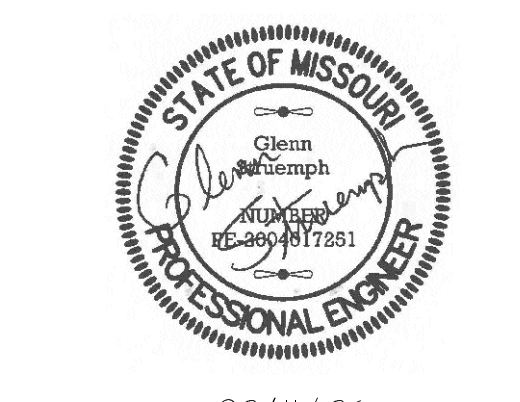


SECTION A-A

GENERAL NOTES:

1. All work shall comply with the Jefferson City, Missouri Codes and Standards, Technical Specifications, and all other applicable requirements.
2. It is the contractor's responsibility to obtain all necessary permits associated with the construction, notify municipal and state agencies and utility companies having jurisdiction, and to coordinate all inspections required.
3. Location of existing utilities are from best information available. Exact location and completeness are not guaranteed. Prior to construction the Contractor shall contact all utility companies concerned. (1-800-DIG-RITE Missouri One Call) If this data is not complete, make test pits and other field locations necessary in order to determine the exact locations of the concerned utilities. Any existing utilities, structures, trees, or other objects which could interfere with the correct completion of the project are also to be located by the Contractor. Any conflicts are to be addressed to the Engineer prior to construction. Additional work resulting from a failure to initially address these items will be at the expense of the Contractor.
4. Contractor to be responsible for the protection of new and existing structures, vegetation, walkways, or improvements. No trees outside cuts and fills are to be removed without the approval of the Engineer. No fill is to be placed around existing trees. Damages resulting from construction activities are to be repaired by Contractor at no additional cost to Owner. Any damages shall be brought to the immediate attention of the Engineer.
5. All written dimensions, coordinates, bearings, and other written data govern. Prior to starting work all data is to be verified by the contractor.
6. Consult Engineer regarding proposed changes, relocation, or modifications prior to the start of work.
7. STANDARD DUTY PAVEMENT:
  - 5" Thick non-reinforced concrete pavement on 6" Modot Type 1 or Type 5 Aggregate Base with 10' max joints.
  - (Alternate) 2" Bituminous Pavement on 2" Bituminous Base
- HEAVY DUTY PAVEMENT:
  - 6" Thick non-reinforced concrete pavement on 6" MoDot Type 1 or Type 5 Aggregate Base with 12' max joints.
  - (Alternate) 2" Bituminous Pavement on 4" Bituminous Base
8. All fill under pavement is to have 95% compaction. All cut areas under pavement are to be treated as the final lift of fill and compacted to 95%. Non compressible fill materials such as crushed rock with minimal fines may be used instead of compacted fill in trenches.
9. Notify the City of Jefferson Department of Public Works at 634-6410 before beginning any work on City Right of Way, to include: Sidewalks, ADA Ramps, City Standard Entrances and any Curb and Gutter Repair and Installation of any erosion/sediment control measures. (Must follow all City Standards for Sidewalks, Curb, Streets, & Traffic Control Plan; including Section 21.01-21.04)
10. All Conduits shall be capped & water tight. Underground Ends shall be located by T-posts.

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JEFFERSON CITY, MO 65109

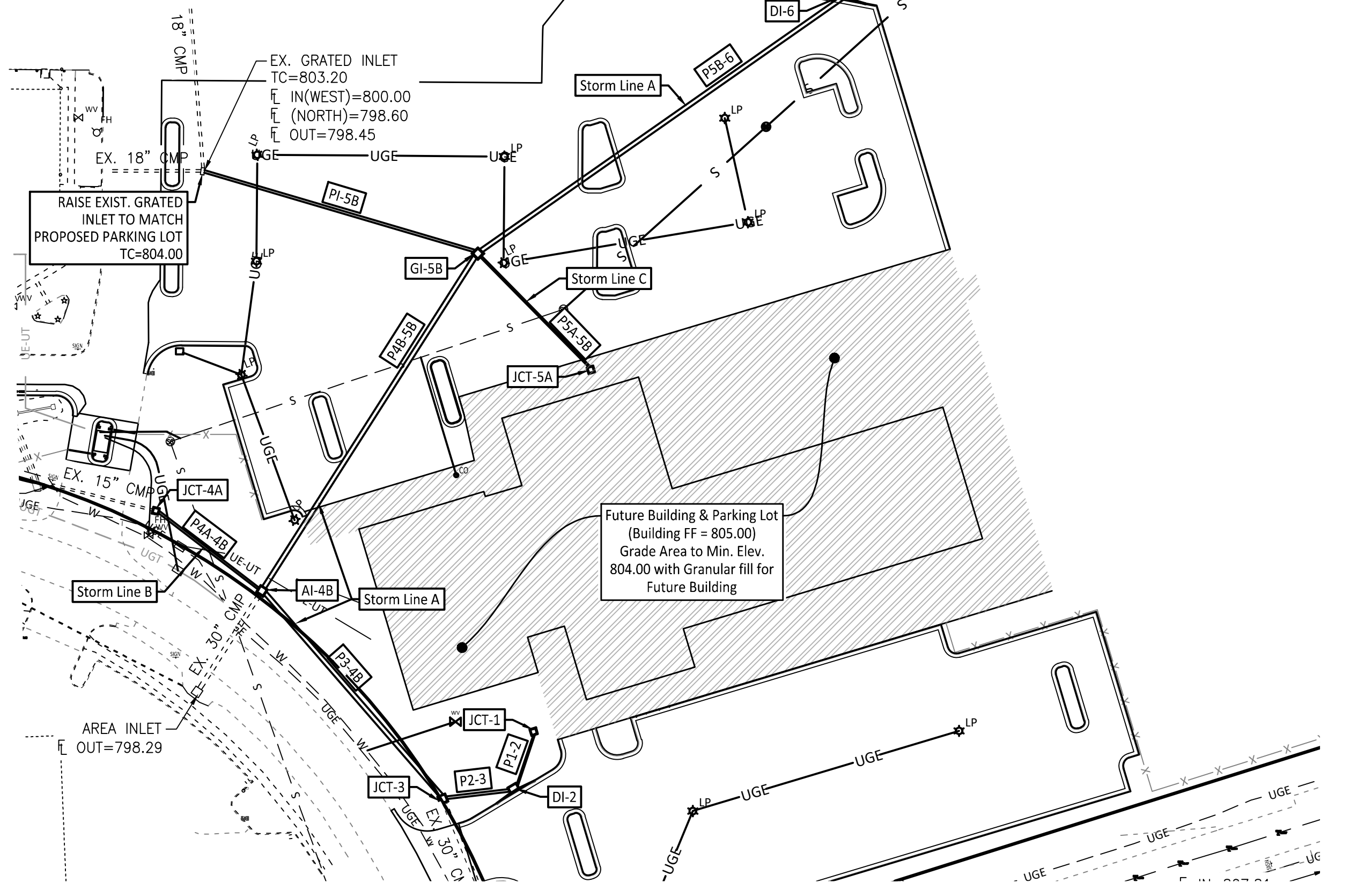
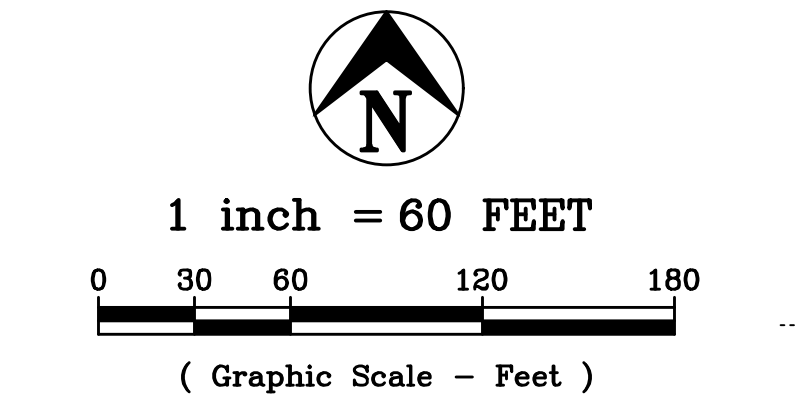
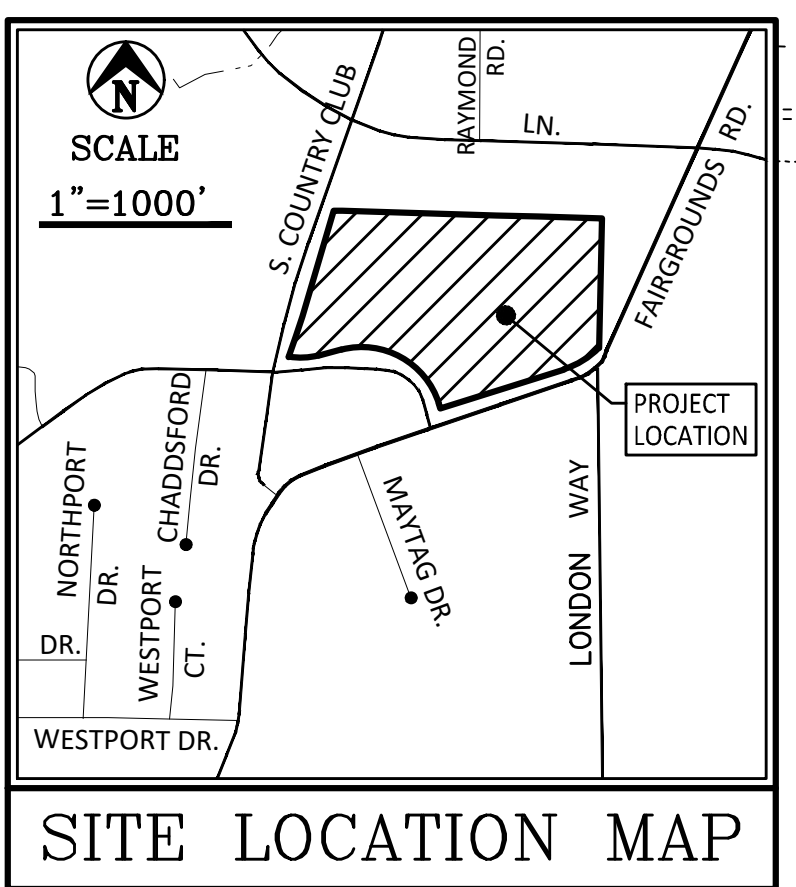
PROJECT # 0243308  
SITE # 1046  
FACILITY # 3101046001

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 2/11/2025

CAD DWG FILE: 81-099 State OA Fleet  
DRAWN BY: GJS  
CHECKED BY: GJS  
DESIGNED BY: GJS

SHEET TITLE:  
**STORM PLAN  
& PROFILE**

SHEET NUMBER:  
**C200**  
6 OF 9 SHEETS  
02/11/2025



- STANDARD STORM SEWER NOTES**
- The Department of Public Works must be notified at least 24 hours prior to beginning construction, including grading. No storm sewer system or any part thereof will be accepted by City of Jefferson unless proper notice has been given to the Department of Public Works.
  - All construction indicated hereon shall be done in accordance with the standards and specifications of City of Jefferson.
  - All pipes shall be installed before adjacent pavement is installed.
  - All fills shall be compacted as placed, and made prior to trench excavation.
  - Minimum cover over storm sewer = 1.0'.
  - All disturbed areas shall be repaired before the storm sewer system will be accepted by the City of Jefferson.

**UTILITY STATEMENT:**  
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE AND ONE-CALL MARKINGS. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

- STORM DRAINAGE STRUCTURES**
- JCT-1 City Std. 3'x3' Junction Box (Detail 11/C500) TC=804.20, FL=OUT=800.98
  - DI-2 City Std. 5'x3' Type A Inlet (Detail 12/C500) TC=803.50, FL=IN=800.60, FL=OUT=800.40 DA=1.04 ac, Q25=7.77 cfs, CAP=8.5 cfs
  - JCT-3 City Std. 4'x4' Junction Box (Detail 11/C500) TC=804.75, FL=IN=799.50, FL=OUT=799.30 EXIST. FL=IN=801.22, FL=OUT=799.30
  - JCT-4A City Std. 3'x3' Junction Box (Detail 11/C500) TC=805.00, EXIST. FL=IN=800.41, FL=OUT=800.40

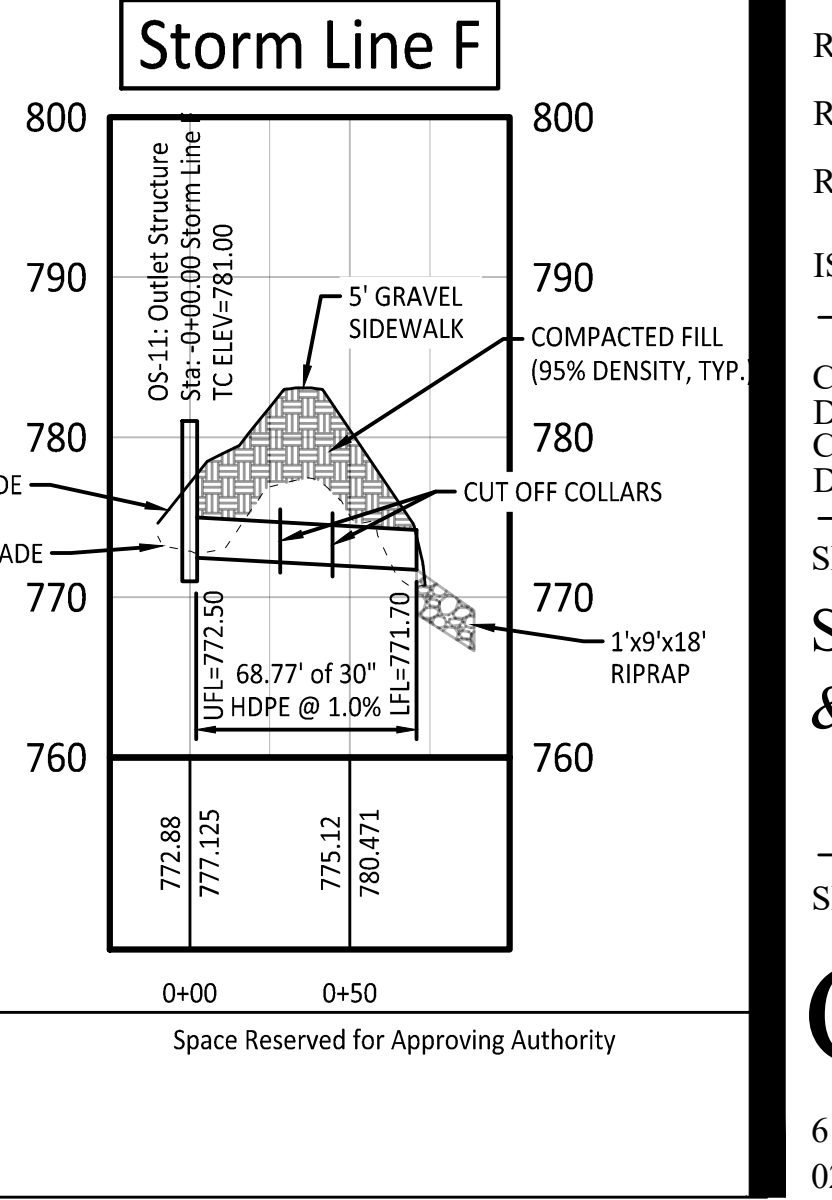
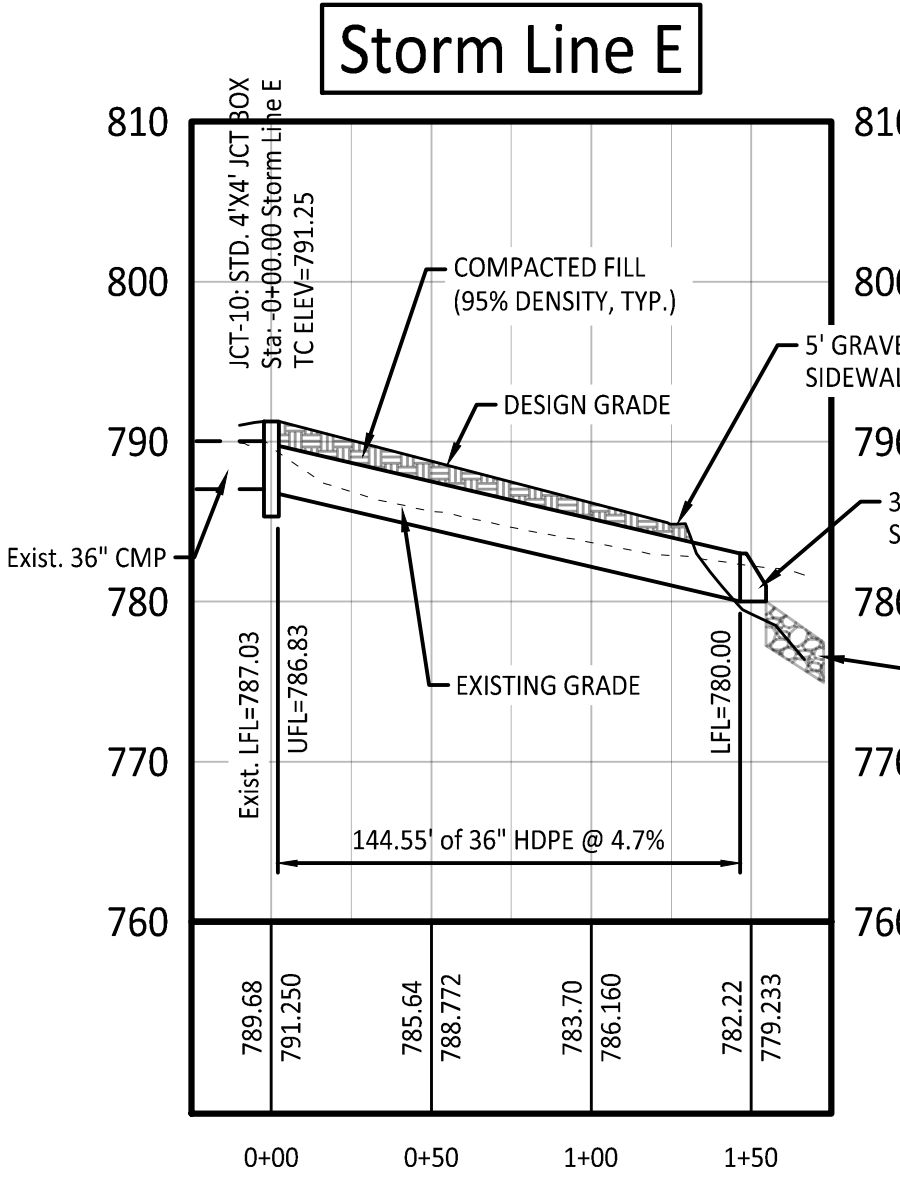
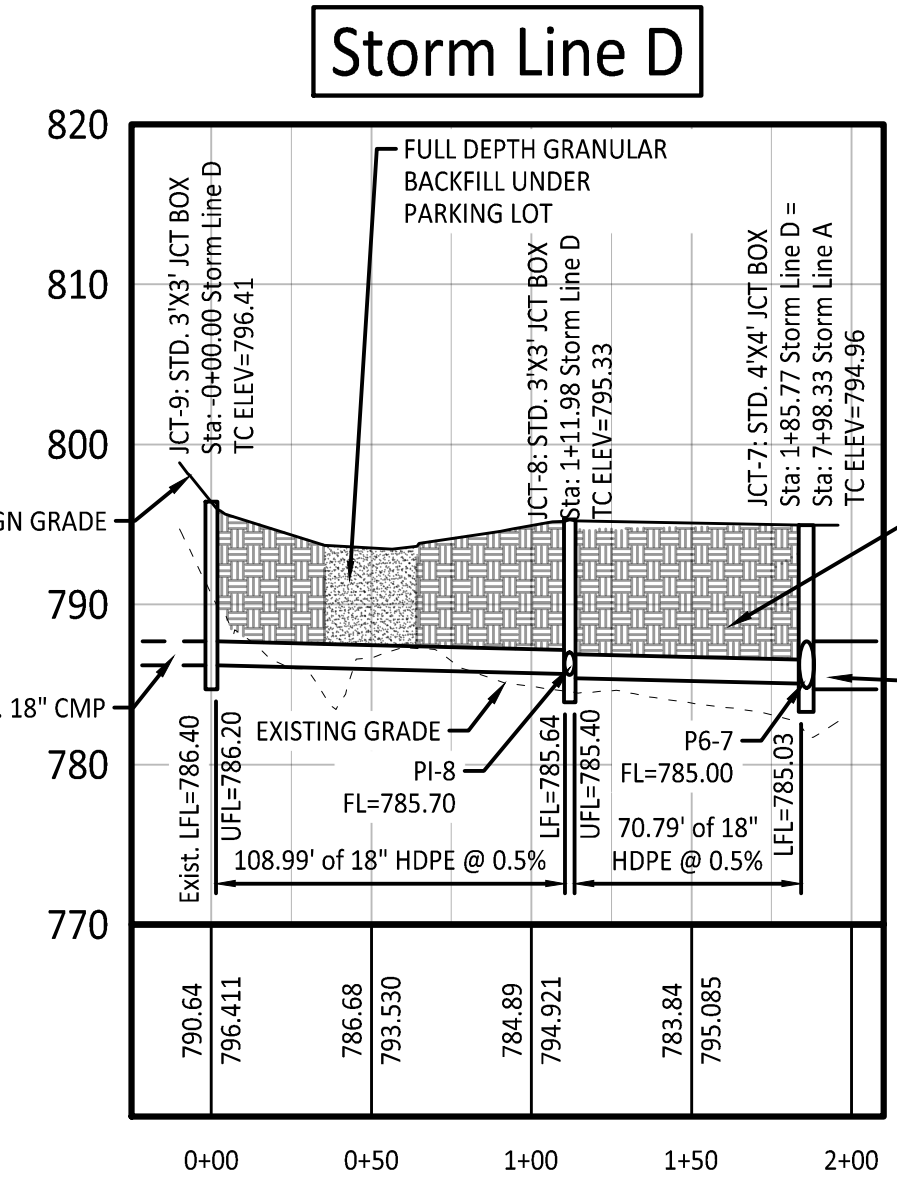
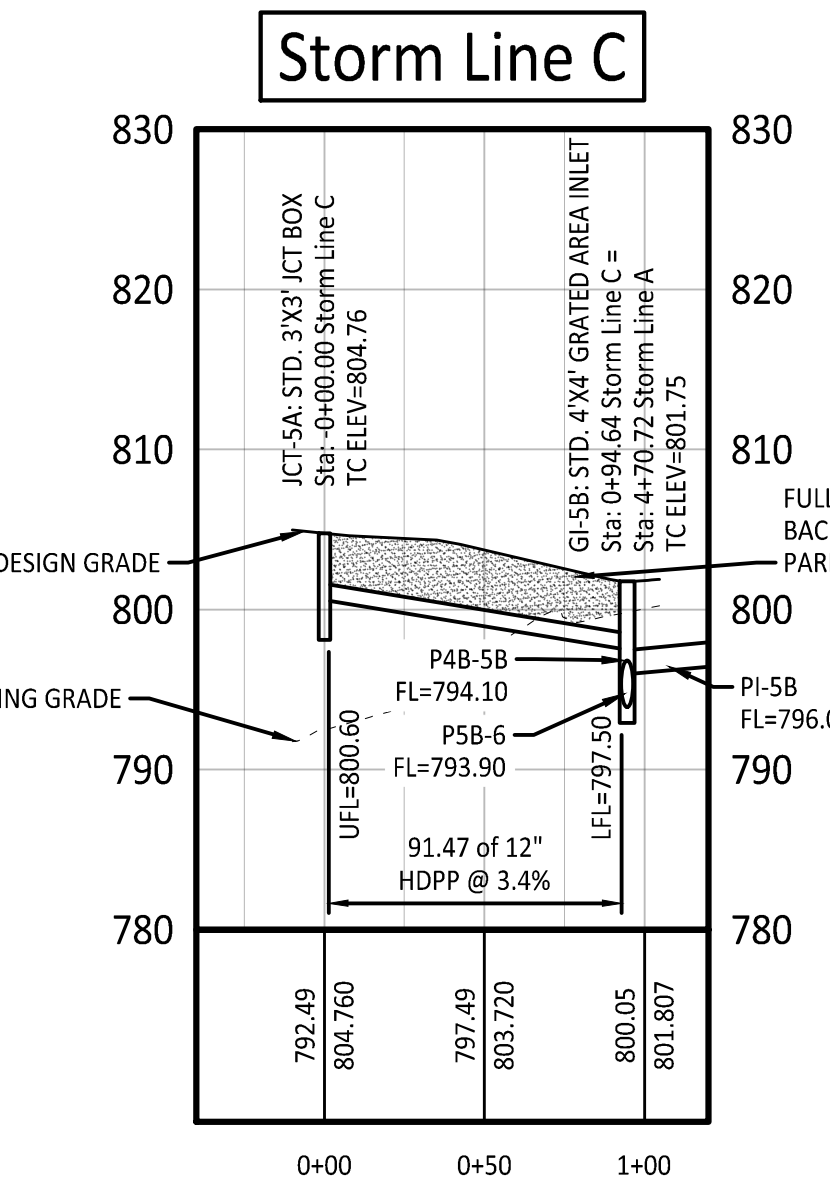
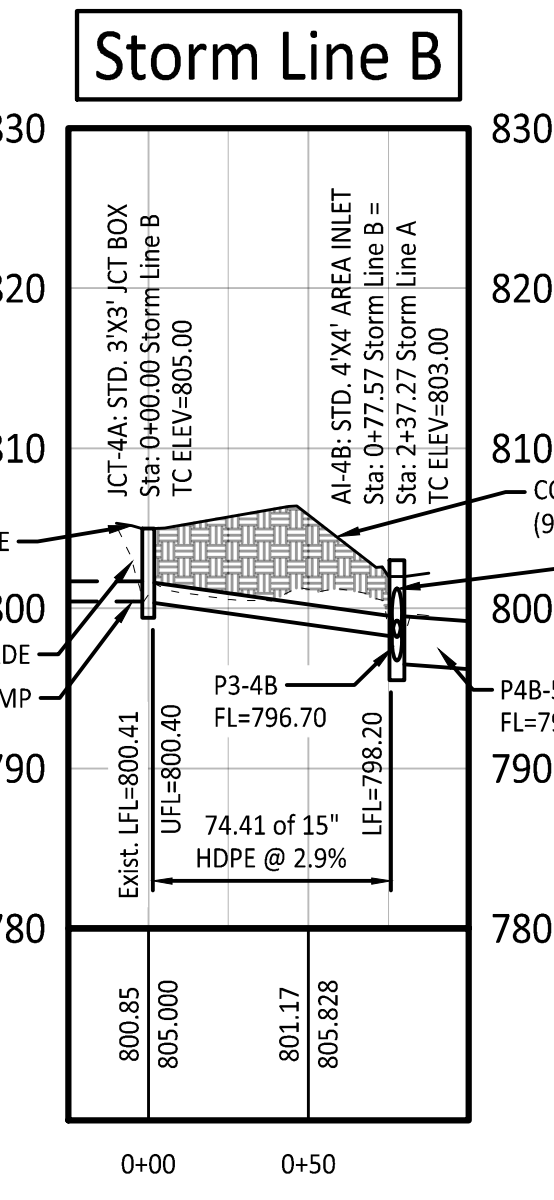
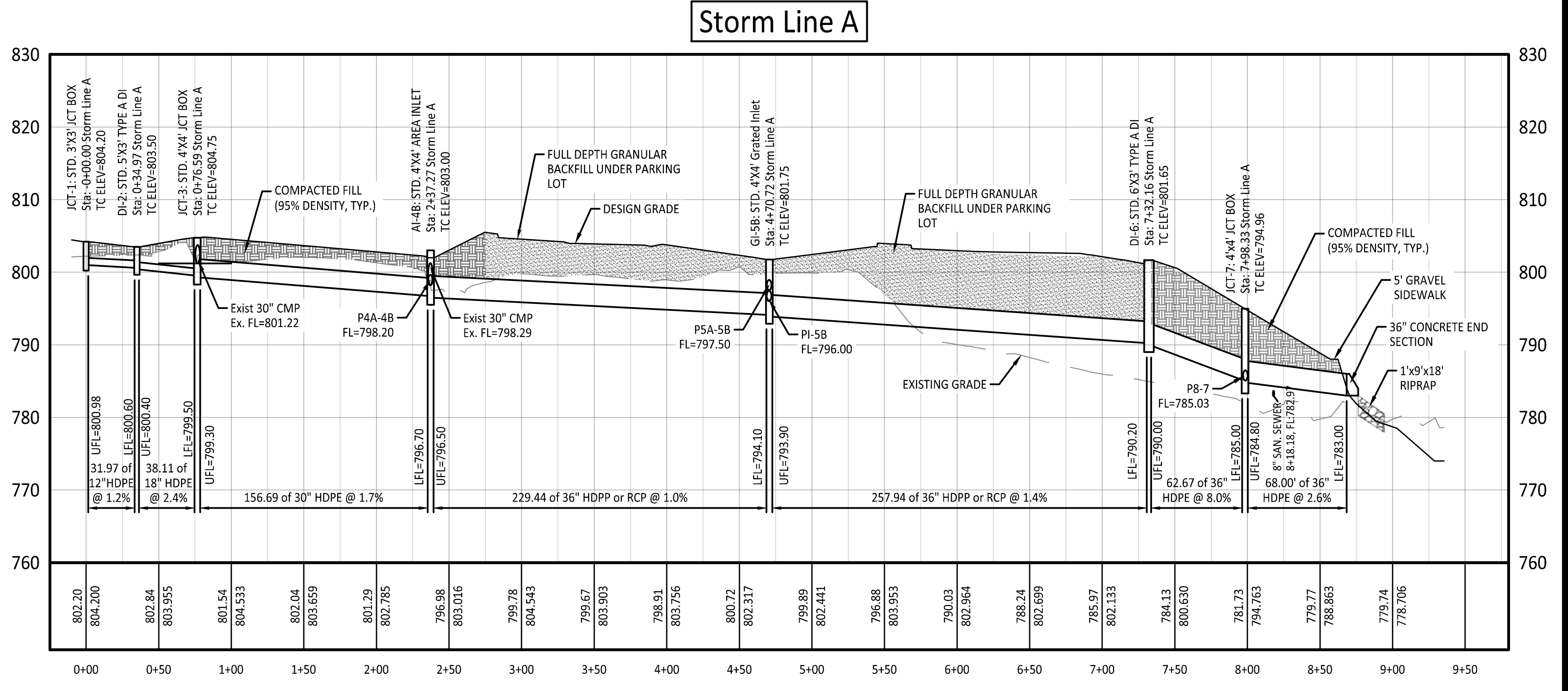
- STORM DRAINAGE PIPES**
- P1-2 31.97' OF 12" HDPE @ 1.2% UFL=800.98, LFL=800.60 DA=0.41 ac, Q25=3.06 CFS, CAP=3.96 CFS
  - P2-3 38.11' OF 18" HDPE @ 2.4% UFL=800.40, LFL=799.50 DA=1.04 ac, Q25=10.83 CFS, CAP=16.07 CFS
  - P3-4B 156.69' OF 30" HDPE @ 1.7% UFL=799.30, LFL=796.70 Q25=17.31 CFS, CAP=52.78 CFS
  - P4A-4B 74.41' OF 15" HDPE @ 2.9% UFL=800.40, LFL=798.20

- AI-4B City Std. 4'x4' Area Inlet (Detail 10/C500) TC=803.00, EXIST. FL=IN=798.29, FL=OUT=796.50 DA=0.57 ac, CAP=12.0 cfs
- JCT-5A City Std. 3'x3' Junction Box (Detail 11/C500) TC=804.76, FL=OUT=800.60
- GI-5B City Std. 4'x4' Grated Area Inlet (Detail 8/C500) TC=801.75, FL=IN=796.00, FL=IN=797.50, FL=OUT=793.90 DA=1.55 ac, Q25=11.58 cfs, CAP=11.7 cfs
- DI-6 City Std. 6'x3' Type A Inlet (Detail 12/C500) TC=801.65, FL=IN=790.20, FL=OUT=790.00 DA=1.34 ac, Q25=10.01 cfs, CAP=10.2 cfs

- JCT-7 City Std. 4'x4' Junction Box (Det 11/C500) TC=794.94, FL=IN=785.03, FL=OUT=784.80
- JCT-8 City Std. 3'x3' Junction Box (Det 11/C500) TC=794.79, FL=IN=785.70, FL=OUT=785.40
- JCT-9 City Std. 3'x3' Junction Box (Det 11/C500) TC=796.41, FL=IN=786.40, FL=OUT=786.20
- JCT-10 City Std. 4'x4' Junction Box (Det 11/C500) TC=791.25, FL=IN=787.03, FL=OUT=786.83
- OS-11 4'x4' Outlet Structure, See Sheet C103 TC=781.00, FL=IN=779.5, FL=OUT=772.50

- P4B-5B 229.44' OF 36" HDPP HP @ 1.0% UFL=796.50, LFL=794.10 Q25=41.12 CFS, CAP=68.17 CFS
- P5A-5B 91.47' OF 12" HDPE @ 3.4% UFL=800.60, LFL=797.50 DA=0.45 ac, Q25=3.36 CFS, CAP=6.56 CFS
- PI-5B 165.00' OF 18" CMP @ 1.48% Exist UFL=798.45, LFL=796.00
- P5B-6 257.94' OF 36" HDPP HP @ 1.4% UFL=793.90, LFL=790.20 Q25=46.13 CFS, CAP=79.88 CFS
- P6-7 62.67' OF 36" HDPE @ 8.0% UFL=790.00, LFL=785.00 Q25=52.40 CFS, CAP=188.40 CFS

- P7-0 68' OF 36" HDPE @ 2.6% WITH 36" CONCRETE END SECTION UFL=784.80, LFL=783.00 Q25=52.40 CFS, CAP=108.52 CFS
- P8-7 70.79' OF 18" HDPE @ 0.50% UFL=785.40, LFL=785.03
- PI-8 75.60' OF 18" HDPE @ 4.40% EXIST UFL=789.03, LFL=785.70
- P9-8 108.99' OF 18" HDPE @ 0.50% EXIST UFL=786.20, LFL=785.64
- P10-0 144.55' OF 36" HDPE @ 4.7% WITH 36" CONCRETE END SECTION UFL=786.83, LFL=780.00
- P11-0 68.77' OF 30" HDPE @ 1.0% UFL=772.50, LFL=771.70



SCALES:  
Horz: 1" = 60'  
Vert: 1" = 12.5'

Space Reserved for Approving Authority

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02/11/25

Central Missouri Professional Services, Inc.  
ENGINEERING - SURVEYING - MATERIALS TESTING  
2500 E. McCARTY  
JEFFERSON CITY, MISSOURI 65101  
Central Missouri Professional Services, Inc.  
Missouri State Certificate of Authority #001558

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
Office of  
Administration

SITE DEVELOPMENT  
AND SECURITY

SCRUGGS STATION  
WAREHOUSE  
4720 SCRUGGS STATION RD.  
JEFFERSON CITY, MO 65109

PROJECT # 0243308  
SITE # 1046  
FACILITY # 3101046001

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 2/11/2025

CAD DWG FILE: 81-099 State OA Fleet  
DRAWN BY: GJS  
CHECKED BY: GJS  
DESIGNED BY: GJS

SHEET TITLE:  
SAN SEWER PLAN  
& PROFILE

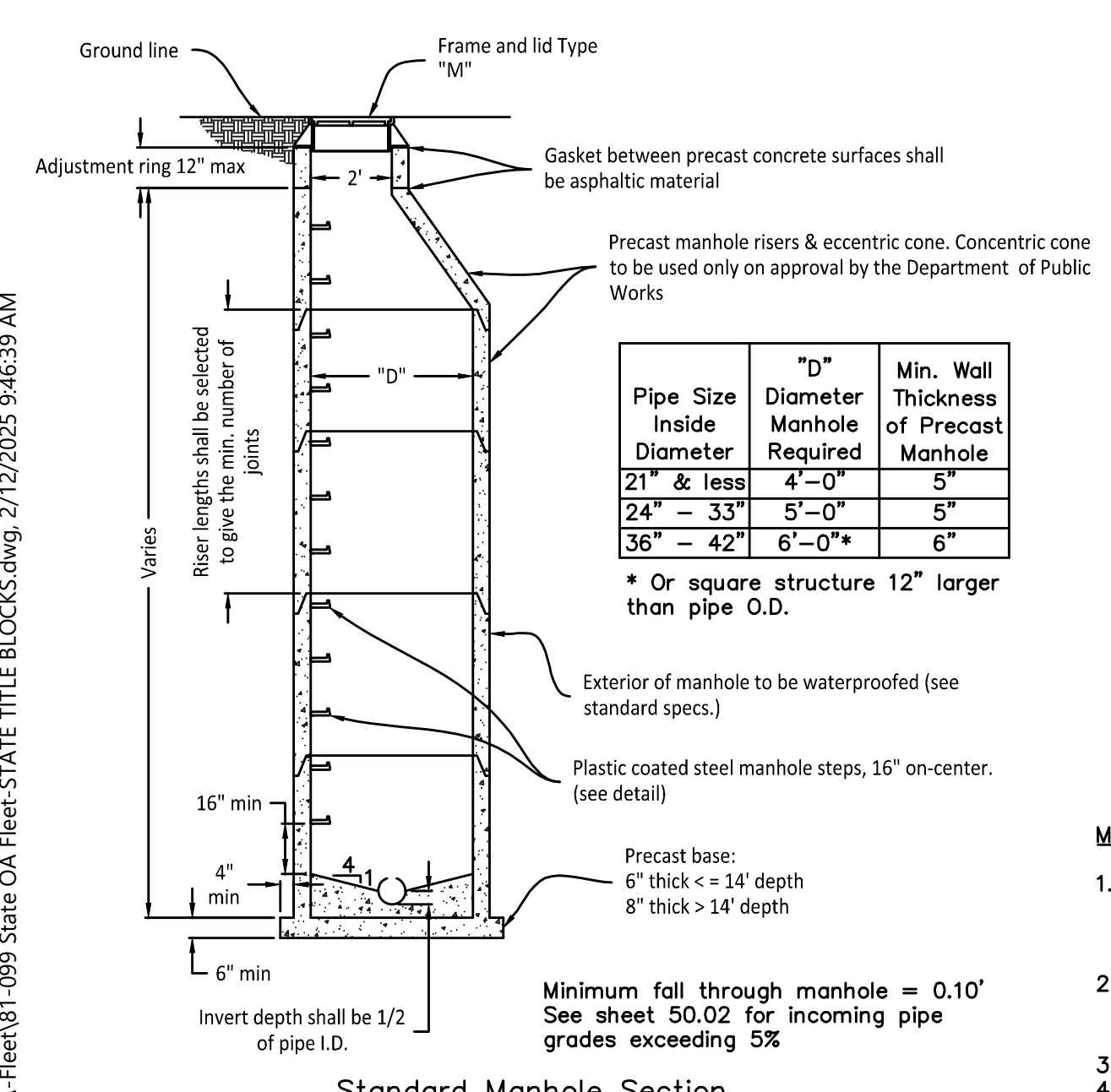
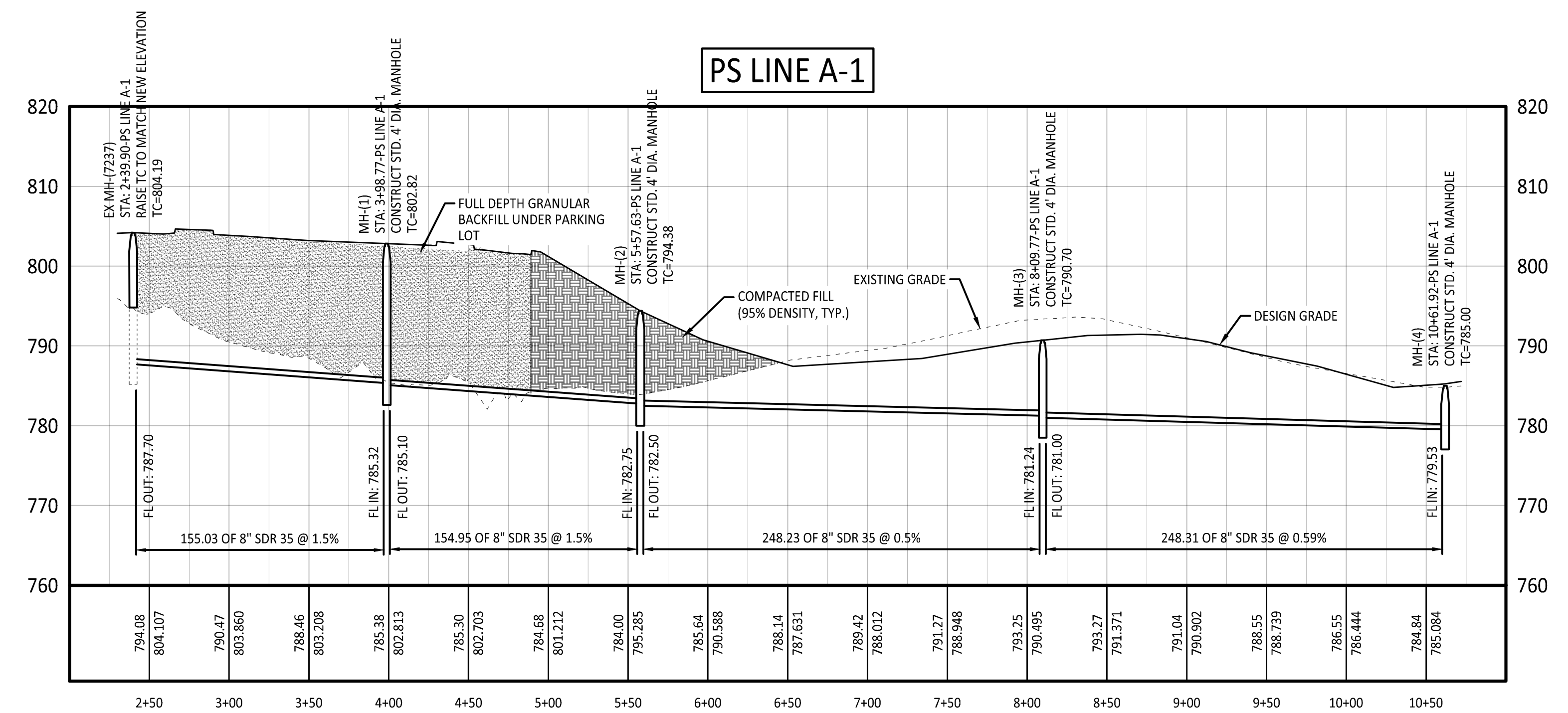
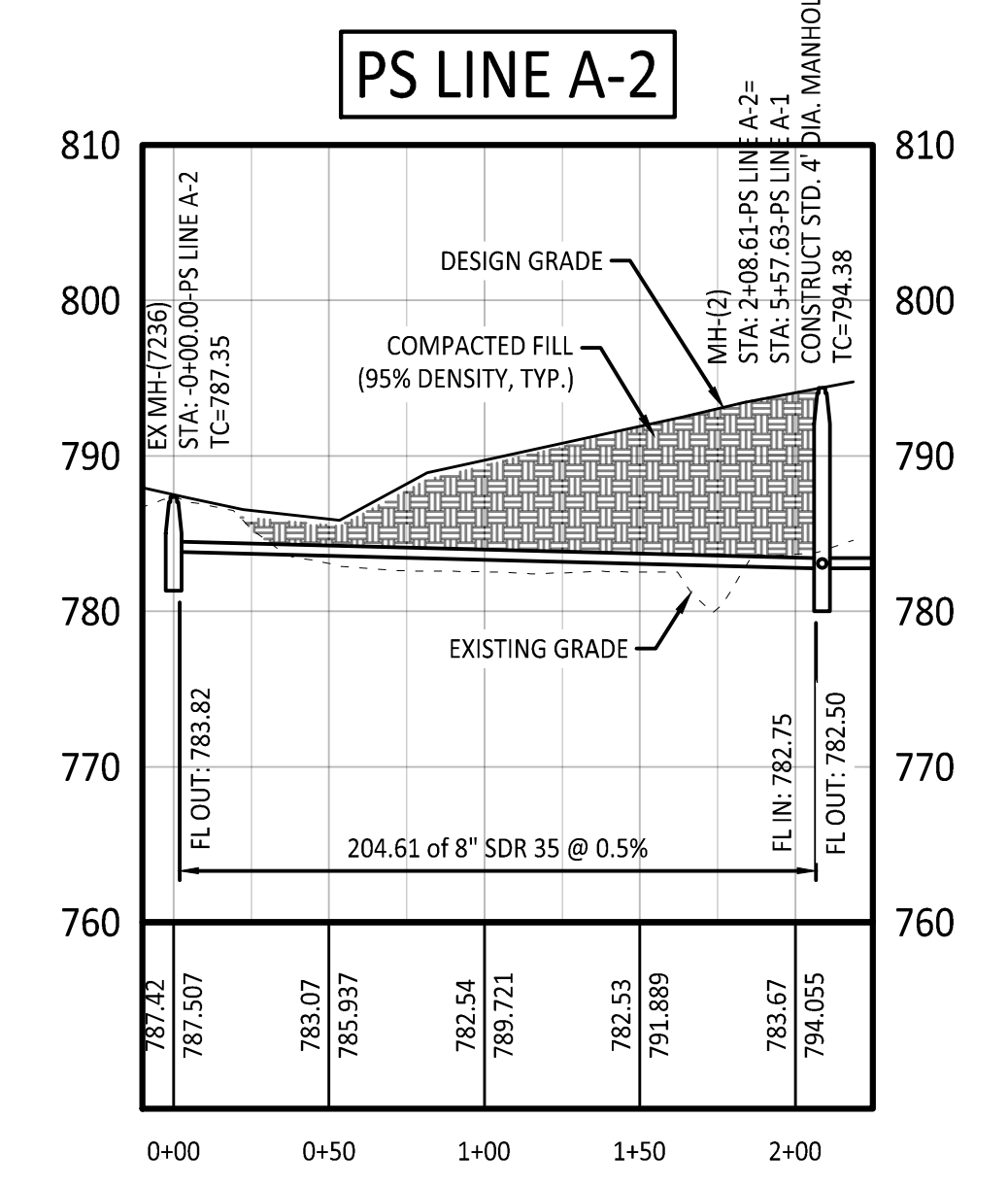
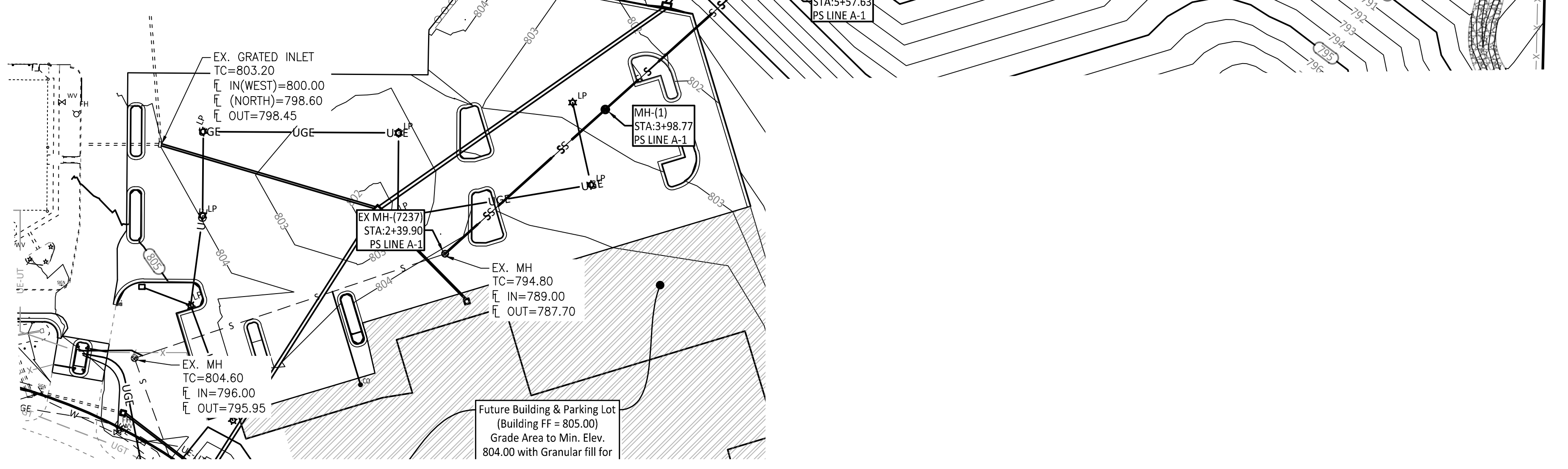
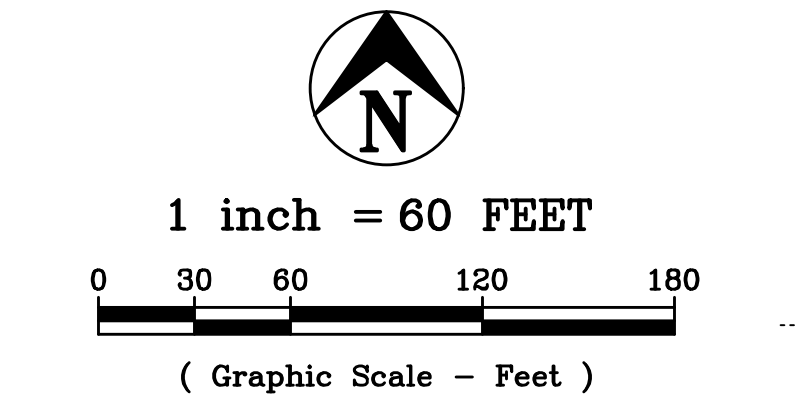
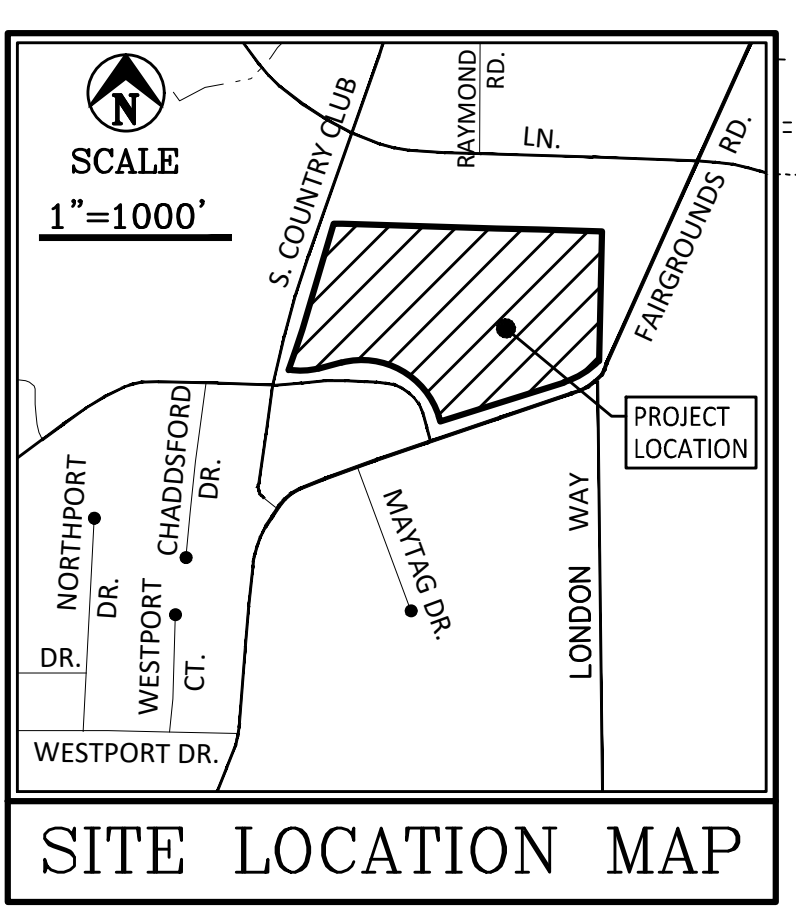
SHEET NUMBER:

C201

7 OF 9 SHEETS  
02/11/2025

STANDARD SANITARY SEWER NOTES

- The Department of Public Works must be notified at least 24 hours prior to beginning construction, including grading. No sewer line or any part thereof will be accepted by the City of Jefferson unless proper notice has been given to the Department of Public Works.
- All construction indicated hereon shall be done in accordance with the City of Jefferson Standard Drawings and Technical Specifications.
- All fills shall be compacted to 95% Std. Proctor, and made prior to trench excavation. Test reports shall be submitted to the City.
- Minimum drop through a manhole = 0.1'.
- Minimum cover over sewer line = 3.0'.
- Spoils from trench excavations will need to be placed on the uphill side of the trenches to help control sediment from the sewer installation work. If the spoil pile erodes, the sediment will then enter ditch rather than leaving site.
- Sanitary sewer service wyes shall be installed during the construction of the sanitary sewer mains. Wood or steel posts shall be installed above grade at the location of service wyes.
- Tops of manholes may require adjustment based on final grading. Adjustment of manhole tops shall be the responsibility of the contractor.
- All sanitary sewer line extensions or additions shall be inspected, tested, and accepted by the Department of Public Works prior to connection to a functioning portion of the City sanitary sewer system. The Department of Public Works must be notified prior to, and an inspector present at the time of connection to the existing system.
- All disturbed areas shall be repaired before the sanitary sewer system will be accepted by the City.



Manhole Notes:

- All required pipe openings shall be plant cast in manhole units. Field alterations of openings will be permitted, provided walls are scored with a masonry saw to a depth sufficient to sever reinforcing steel. A chipping hammer may then be used to remove concrete.
- Use precast base and riser with A-Lok (or equivalent) connector, or poured base and precast riser with A-Lok (or equivalent) for max. grade of 15%. Use Z-Lok (or equivalent) for grades over 15%.
- Minimum distance between any two adjacent pipes shall be 4".
- When making connections to existing manholes core holes as specified in manhole and install A-Lok Inserta-LOK for grades less than 12% or A-Lok G3 boot system for grades at or above 12%.
- Grout pipes to provide smooth transition into and from invert with expansive grout. Do not grout sides and top of pipe when using water tight rubber gaskets.
- Manhole top adjustment shall be accomplished by the use of concrete or HDPE adjusting rings.
- Reinforcement shall meet AASHTO M199, section 14.4. Circumferential reinforcement shall consist of either one or two lines of steel. The total area of reinforcement per vertical foot shall not be less than 0.0025 times the internal diameter in inches.

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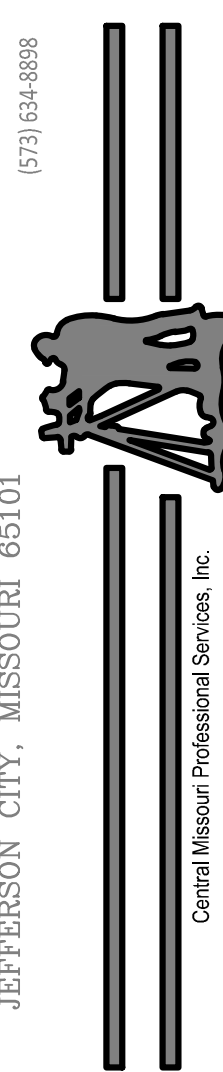
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PS LINES: A-1, and A-2



02/11/25

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ENGINEERING - SURVEYING - MATERIALS TESTING  
2500 E. McCARTY  
JEFFERSON CITY, MISSOURI 65101



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JEFFERSON CITY, MO 65109

PROJECT # 0243308  
SITE # 1046  
FACILITY # 3101046001

REVISION:  
DATE:  
REVISION:  
DATE:  
REVISION:  
DATE:  
ISSUE DATE: 2/11/2025

CAD DWG FILE: 81-099 State OA Fleet  
DRAWN BY: GJS  
CHECKED BY: GJS  
DESIGNED BY: GJS

SHEET TITLE:  
DETAILS

SHEET NUMBER:

C500

8 OF 9 SHEETS  
02/11/2025

Reference: City of Jefferson Zoning Ordinance - Appendix B.1  
STANDARD TREE PLANTING DETAIL

The Hole: Excavate a pit which is at least twice the diameter of the rootball and the same depth - no deeper. Handle the tree by the rootball, not the trunk. Be sure the rootball or container soil rests on solid ground. For best root development, enlarge the planting area by removing existing turf, then spading or tilling soil in a wide ring.

The following procedures are optional:

Stakes: Stakes may be used to prevent shifting of the rootball or to protect the stem from moving equipment. Drive one or more stakes near the tree, but not through the roots.

Ties: If ties are used to prevent shifting, place them low on the stem and with slack in the tie material. Wires should be placed through tubing or hose sections to prevent damage to the bark. Flexible plastic ties are available. Remove ties as soon as the tree can stand alone - about three months, or longer if needed.

Trunk Wrap: Trunk wrapping may help to prevent damage from sun exposure. Use a stretchable wrapping material. Do not allow wrap or banding to constrict the stem. Remove wrap during mild weather.

These procedures may be used for planting in relatively uncompacted soil, or where water will percolate through the topsoil layer.

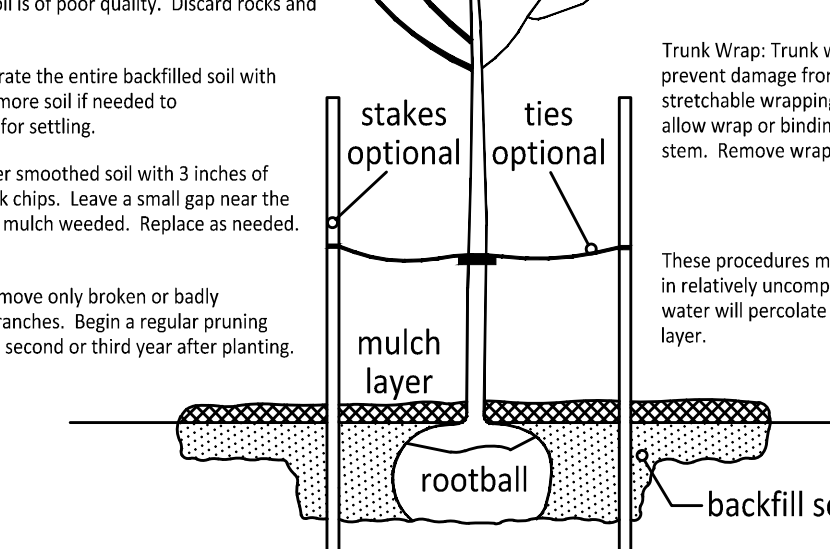
Carefully cut twine wrapped around the stem at the top of the rootball. Remove burlap from the top of the rootball to prevent wicking of moisture from the soil. Remove completely any plastic burlap or container.

Backfill Soil: Backfill the pit with chopped excavated soil. Use local topsoil for backfill if excavated soil is of poor quality. Discard rocks and debris.

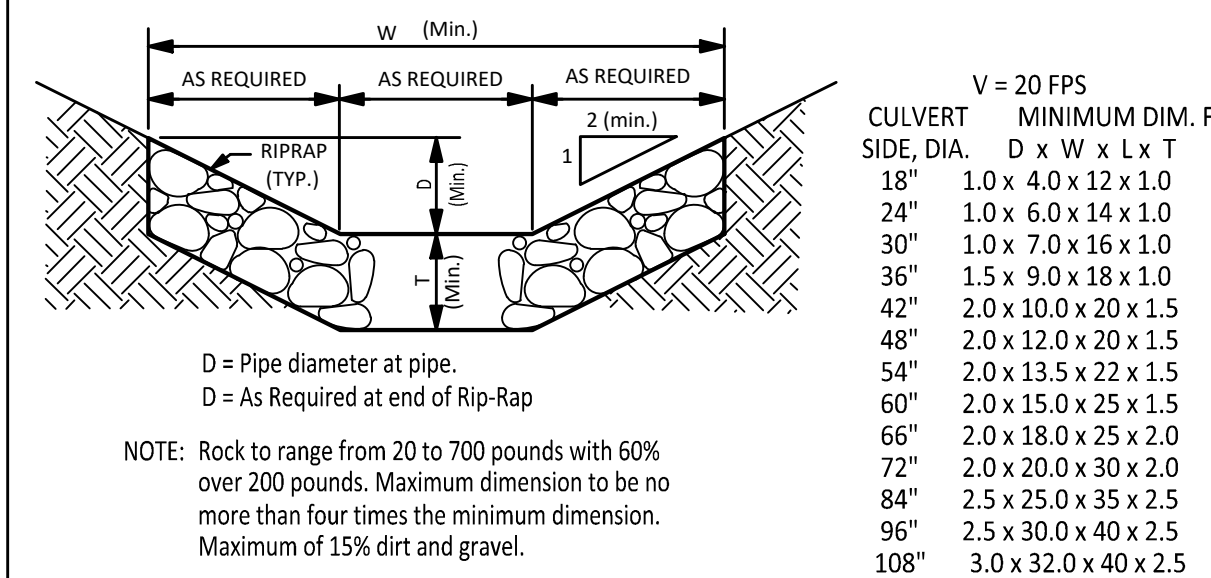
Water: Saturate the entire backfilled soil with water. Add more soil if needed to compensate for setting.

Mulch: Cover smoothed soil with 3 inches of wood or bark chips. Leave a small gap near the trunk. Keep mulch weeded. Replace as needed.

Pruning: Remove only broken or badly deformed branches. Begin a regular pruning program the second or third year after planting.



5 TREE PLANTING DETAIL  
SCALE: N.T.S.

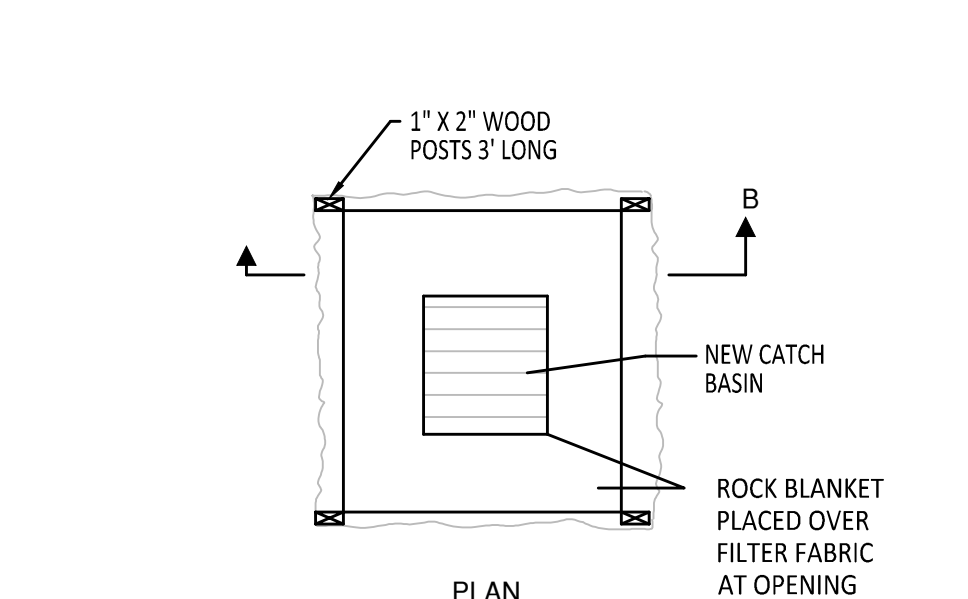
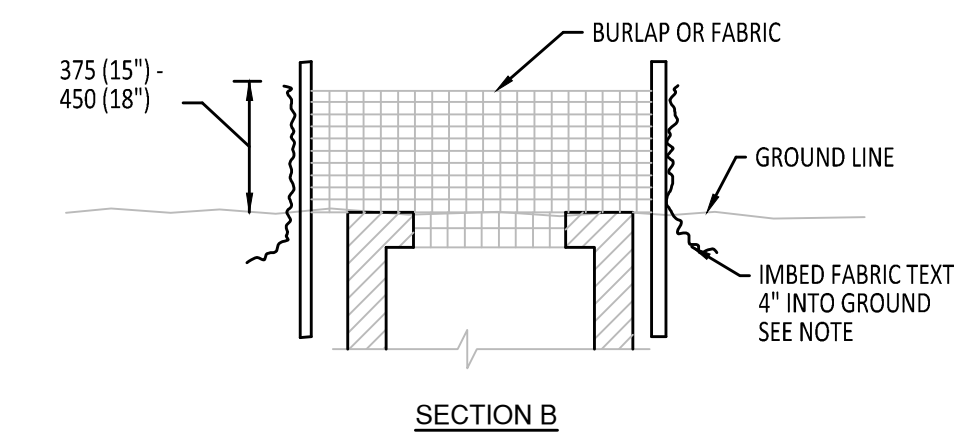


CULVERT SIDE, DIA.	MINIMUM DIM. FT.	D x W x L x T
18"	1.0 x 4.0 x 12 x 1.0	
24"	1.0 x 6.0 x 14 x 1.0	
30"	1.0 x 7.0 x 16 x 1.0	
36"	1.5 x 9.0 x 18 x 1.0	
42"	2.0 x 10.0 x 20 x 1.5	
48"	2.0 x 12.0 x 20 x 1.5	
54"	2.0 x 13.5 x 22 x 1.5	
60"	2.0 x 15.0 x 25 x 1.5	
66"	2.0 x 18.0 x 25 x 2.0	
72"	2.0 x 20.0 x 30 x 2.0	
84"	2.5 x 25.0 x 35 x 2.5	
96"	2.5 x 30.0 x 40 x 2.5	
108"	3.0 x 32.0 x 40 x 2.5	

D = Pipe diameter at pipe.  
D = As Required at end of Rip-Rap

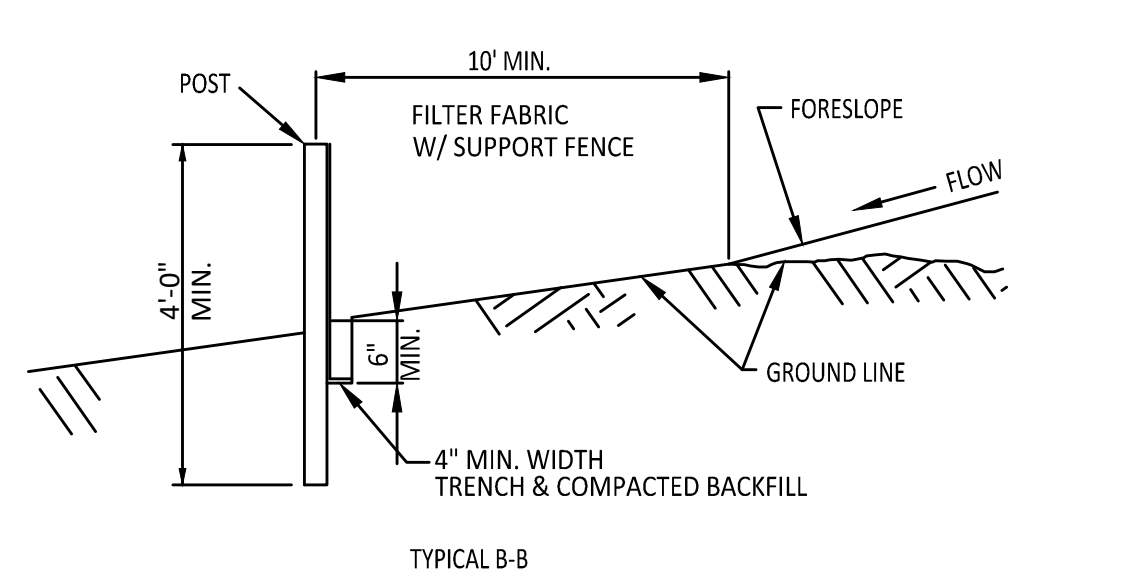
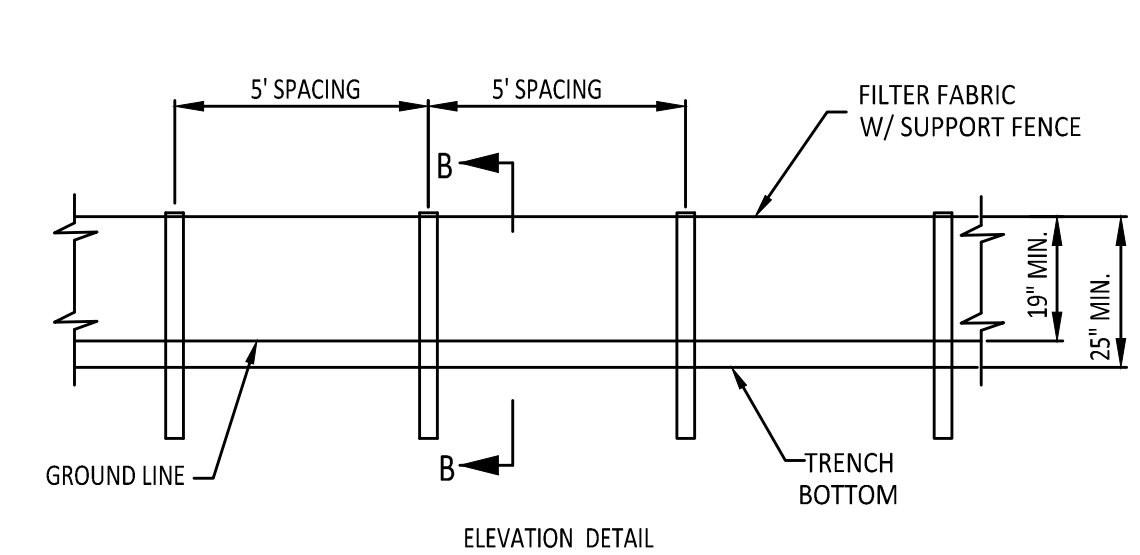
NOTE: Rock to range from 20 to 700 pounds with 60% over 200 pounds. Maximum dimension to be no more than four times the minimum dimension. Maximum of 15% dirt and gravel.

4 TYP RIP-RAP DETAIL  
SCALE: N.T.S.

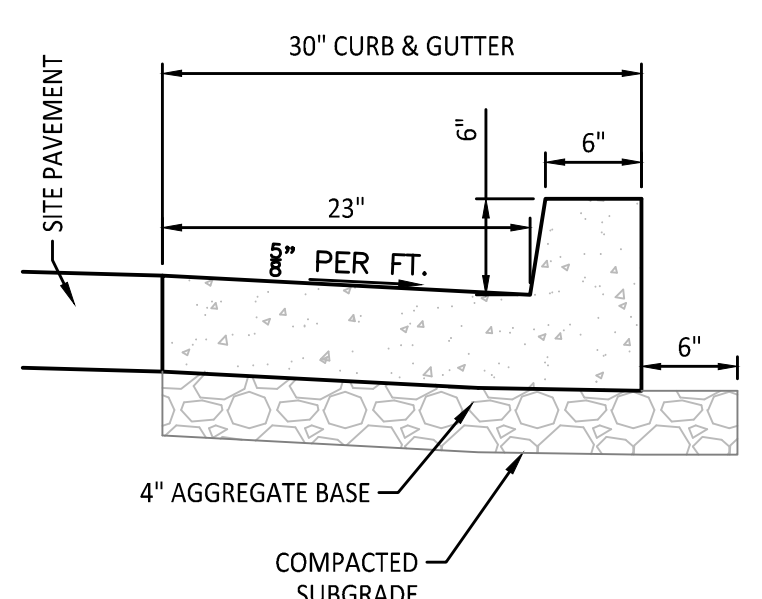


NOTE: COMMERCIAL PRODUCTS MAY BE USED IN LIEU OF STANDARD FILTER FABRIC, SUCH AS STRAW WATTLES, "BIG RED" (CURB INLETS), DANDY PRODUCTS, SILT SAVER, FILTER FABRIC OR OTHER APPROVED (TYP).

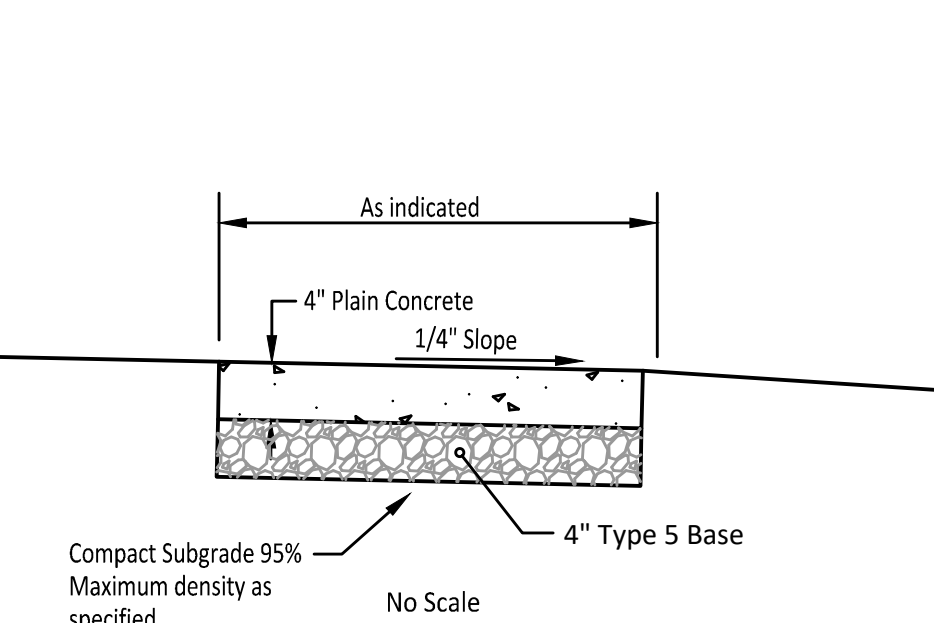
3 INLET SEDIMENT BARRIER  
SCALE: N.T.S.



2 SILT FENCE PERIMETER BARRIER  
SCALE: N.T.S. (Straw Bales & Mulch Berms can be used as an option)



1 CURB & GUTTER  
SCALE: N.T.S.



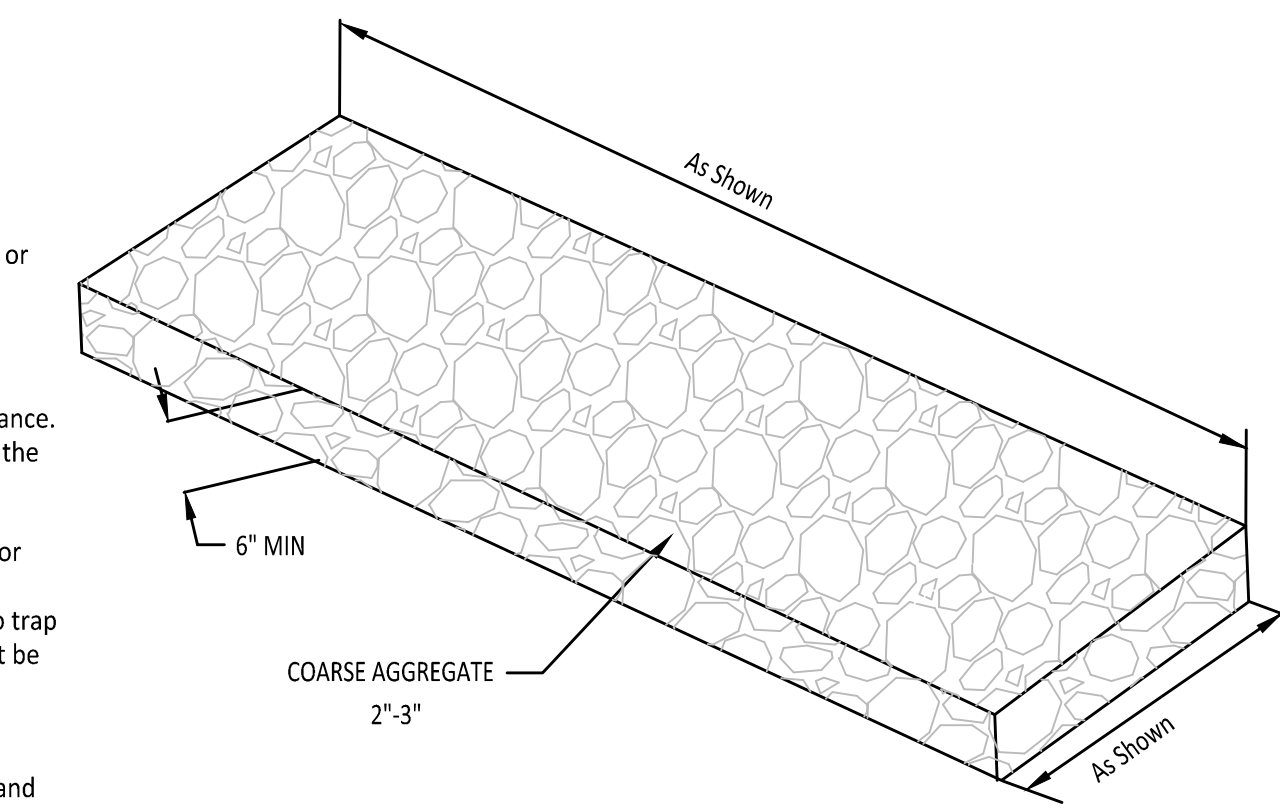
Compact Subgrade 95% Maximum density as specified.

- CONTRACTION JOINTS ON 6' CENTERS.
- FOR LONG RUNS, INSTALL EXPANSION JOINTS AT A MINIMUM SPACING OF 120'.
- INSTALL EXPANSION JOINTS WHERE SIDEWALK ABUTS A CURB, ANOTHER SIDEWALK OR A SOLID STRUCTURE.

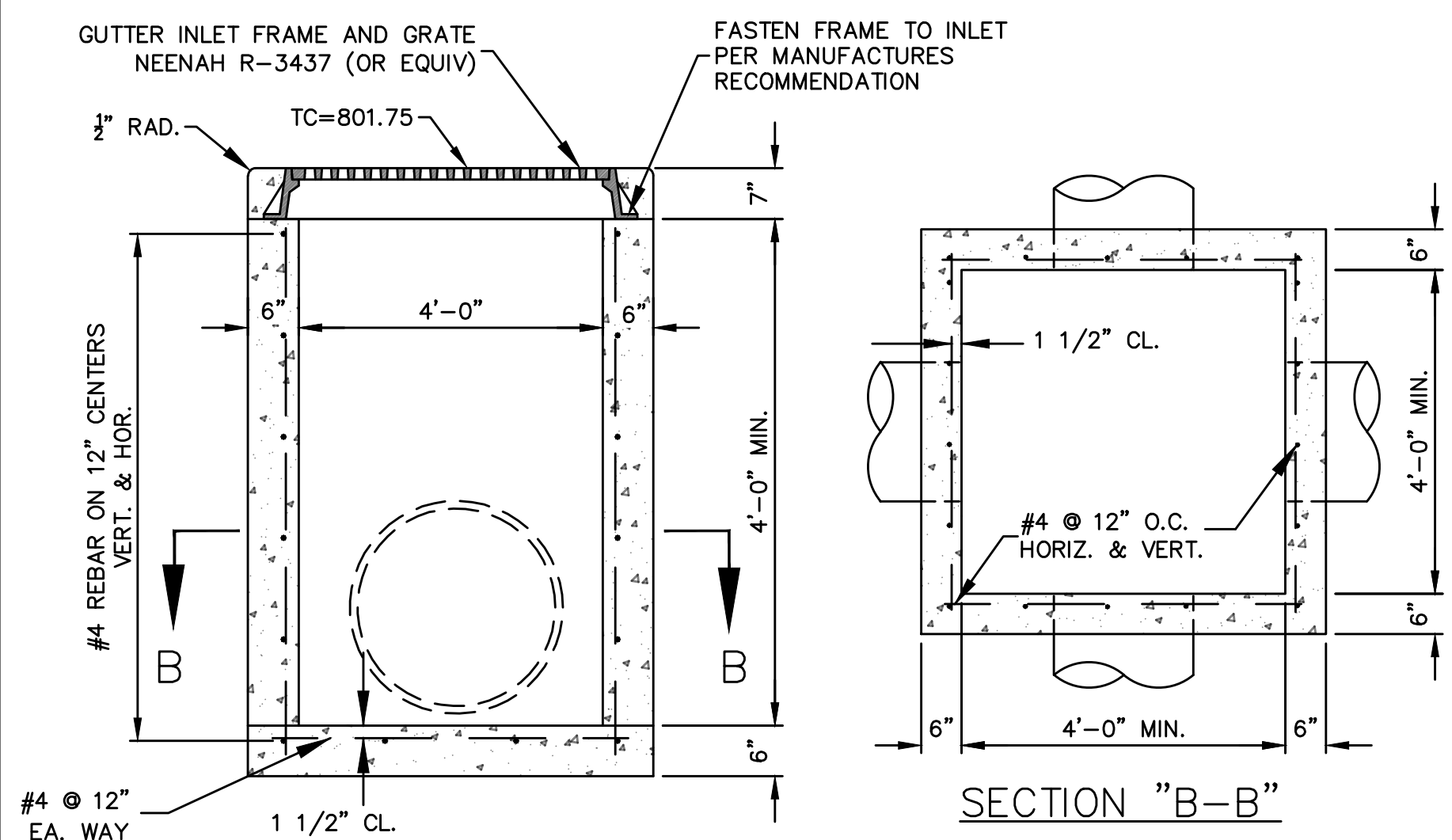
6 TYPICAL SIDEWALK SECTION  
SCALE: N.T.S.

CONSTRUCTION ENTRANCE NOTES

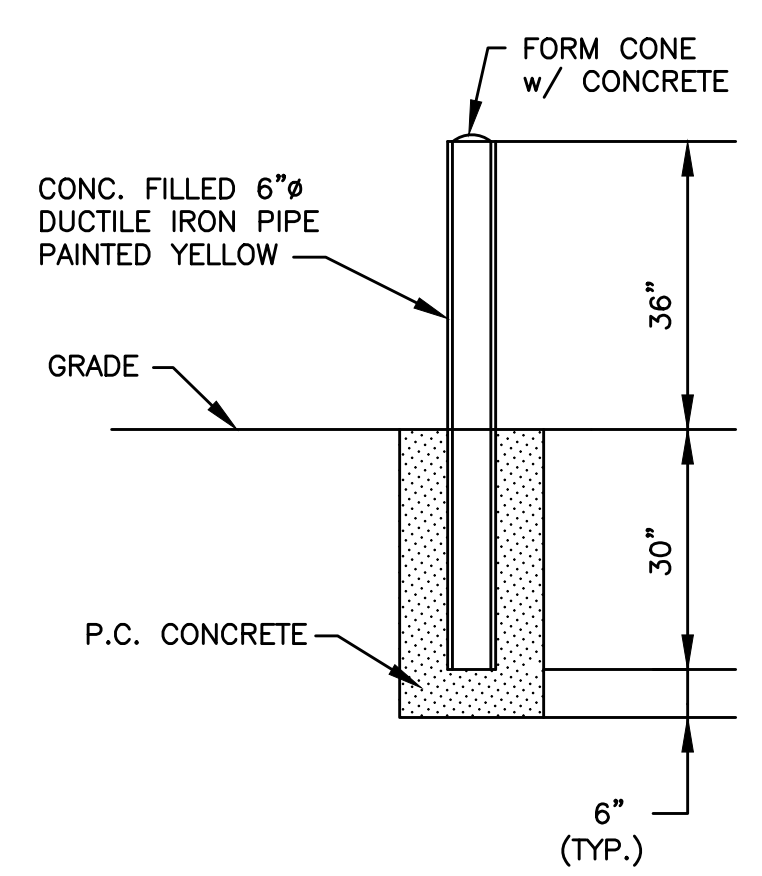
- An aggregate construction entrance shall be constructed as shown on the plans.
- Aggregate size - Use 3" minus crushed limestone.
- Length - As Shown
- Thickness - Not less than six (6) inches.
- Width - Twenty (20) foot minimum, but not less than the full width at points where ingress or egress occurs.
- Filter Cloth - Shall be placed over the entire area prior to placing of stone.
- Surface Water - Construction entrance surface shall be graded to drain away from the entrance. Any surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 3:1 slopes shall be permitted.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection as needed maintenance shall be provided after each rain.



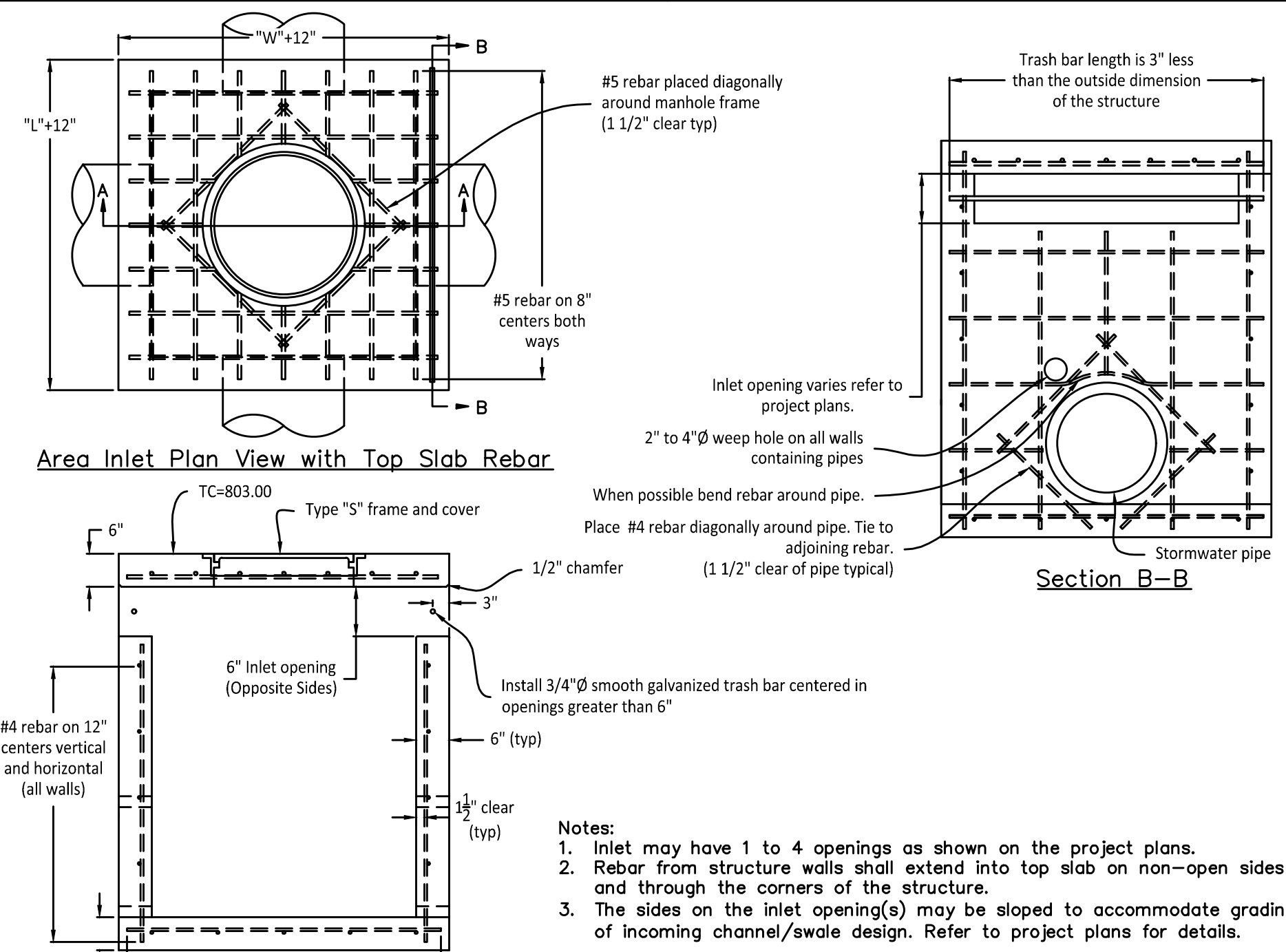
7 AGGREGATE CONSTRUCTION ENTRANCE  
SCALE: N.T.S.



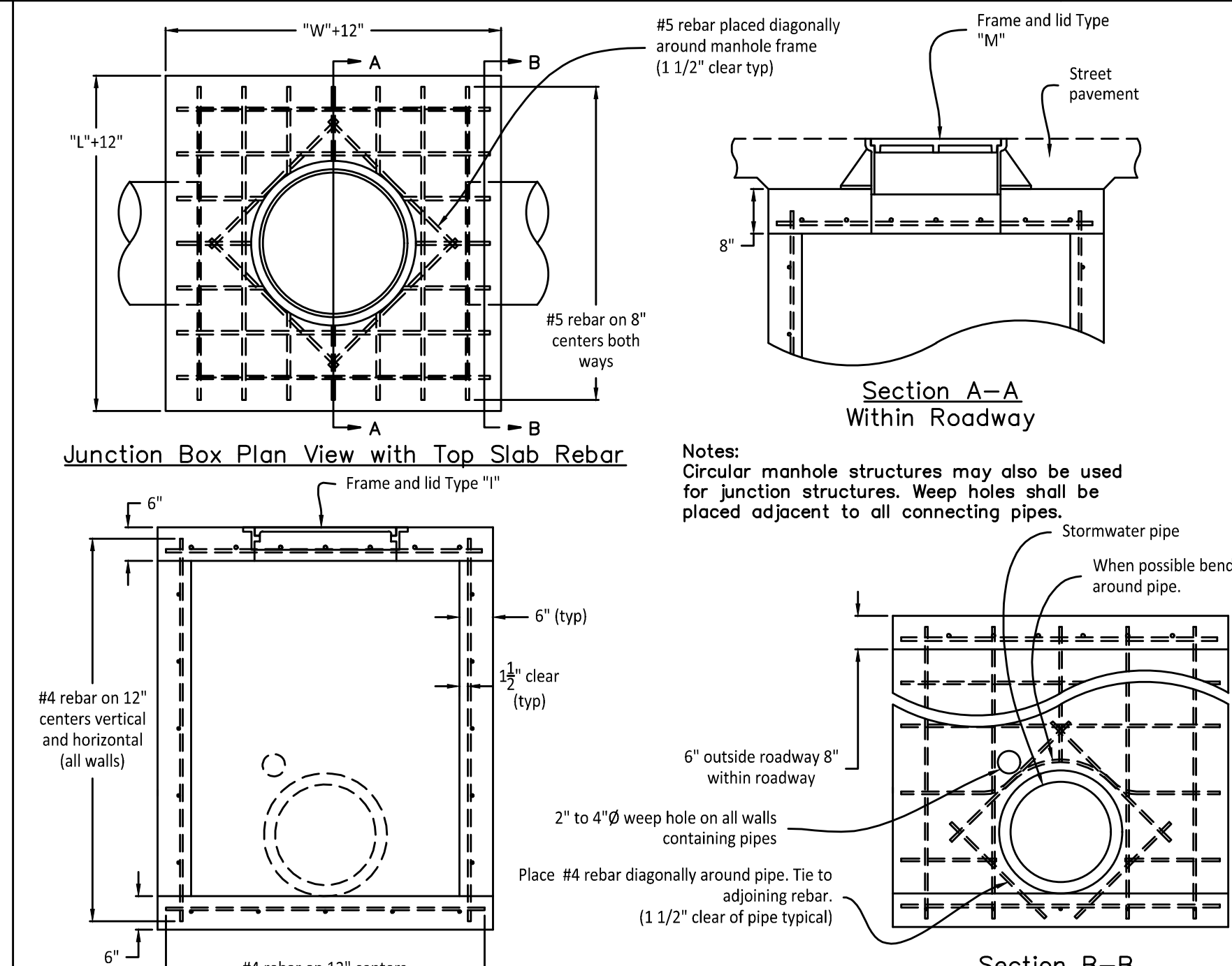
8 4'x4' STORM GRATE INLET  
SCALE: N.T.S.



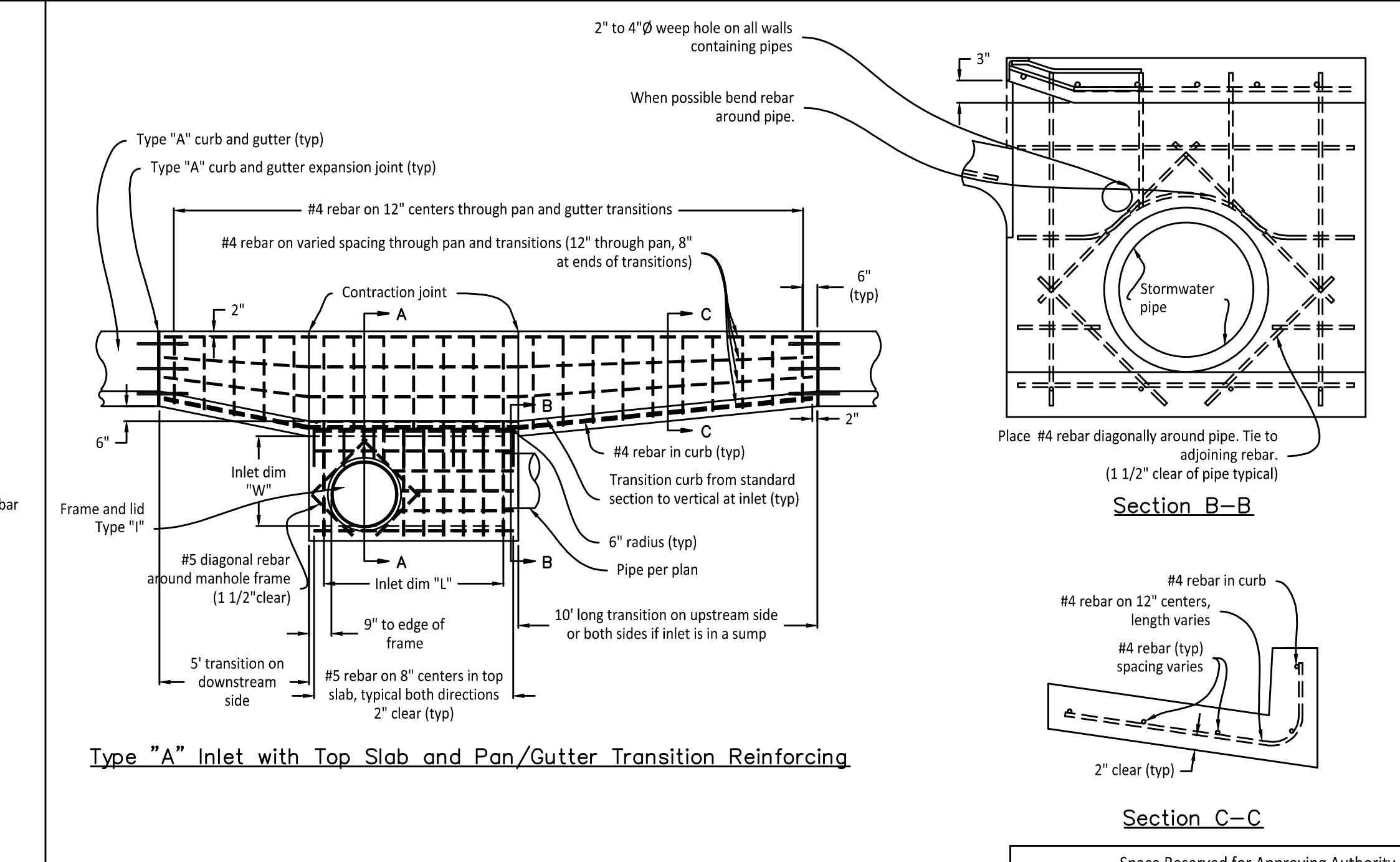
9 BOLLARD DETAIL  
SCALE: N.T.S.



10 AREA INLET DETAILS  
SCALE: N.T.S.



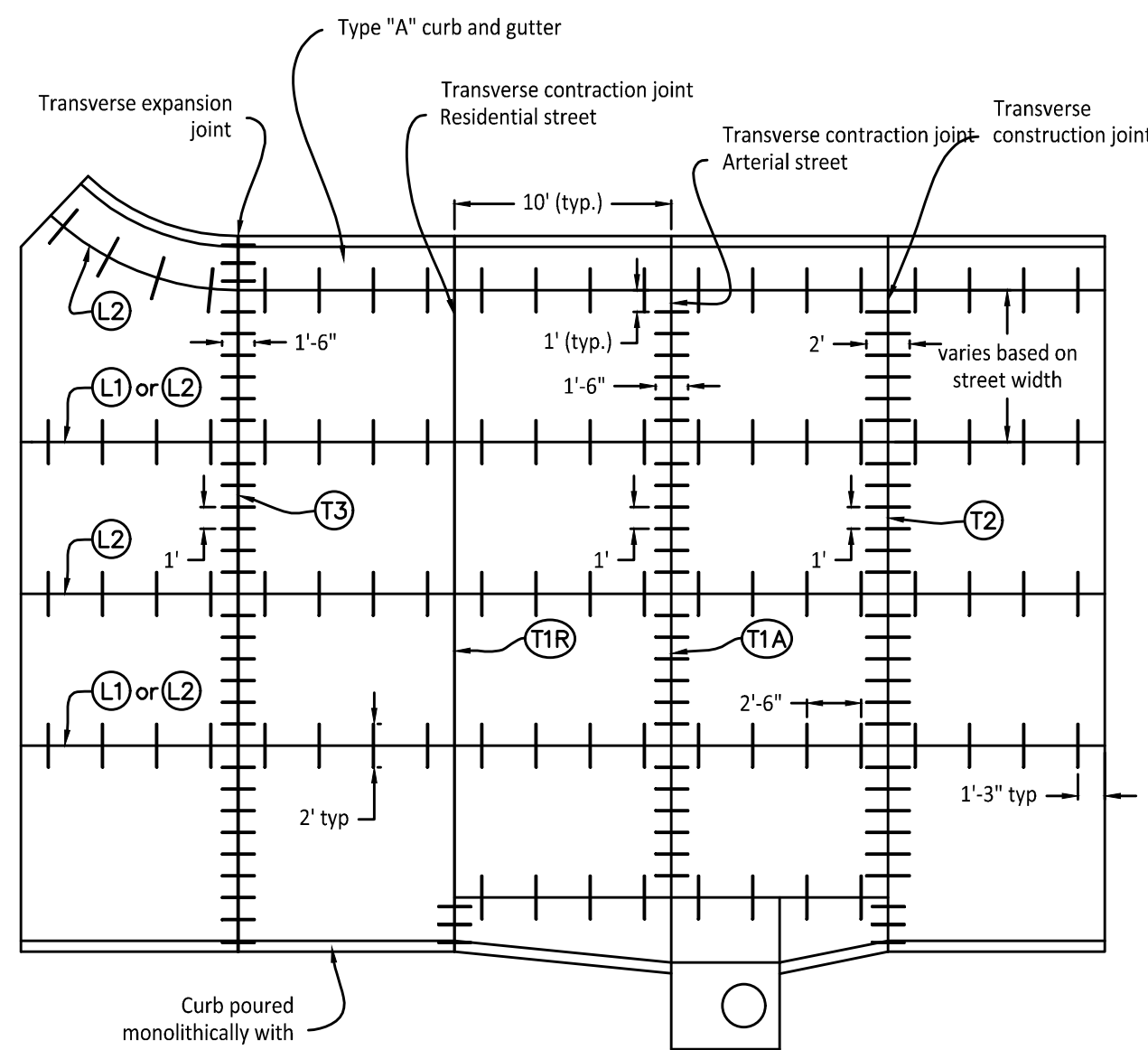
11 JCT BOX DETAILS  
SCALE: N.T.S.



12 TYPE "A" DROP INLET  
SCALE: N.T.S.

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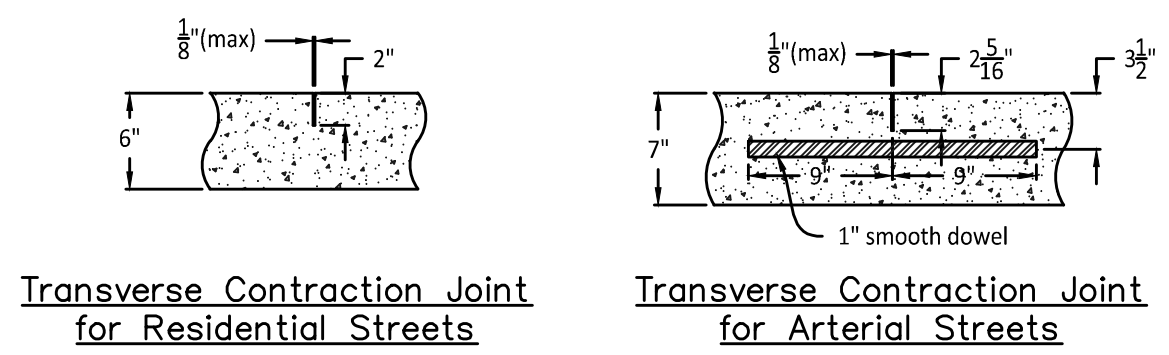
**Reinforcement for PCC Pavement**

Notes:

Reinforced joints in PCC pavement shall be as follows:

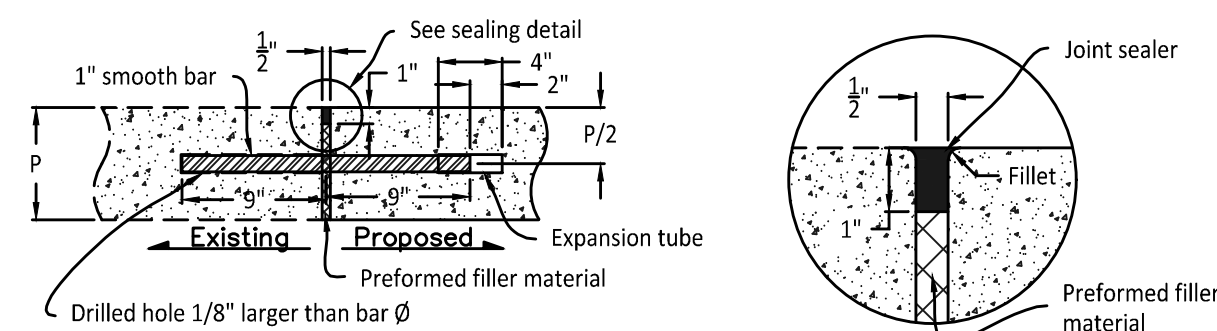
- (L1) Longitudinal Contraction Joints  
24" #4 deformed bars at 30" centers centered on joint
- (L2) Longitudinal Construction Joints  
24" #4 deformed bars at 30" centers centered on joint
- (T1A) Transverse Contraction Joints Arterial Streets  
18" x 1" dia. smooth dowels at 12' centers centered on joint  
No dowels required
- (T1R) Transverse Contraction Joints Residential Streets  
No dowels required
- (T2) Transverse Construction Joints  
24" #4 deformed bars at 12" centers centered on joint
- (T3) Transverse Expansion Joints  
18" x 1" dia. smooth dowels at 12' centers centered on joint with expansion caps on one end of bar

**1 REINFORCEMENT FOR PCC PAVEMENT AND JOINT DETAILS**  
SCALE: N.T.S.



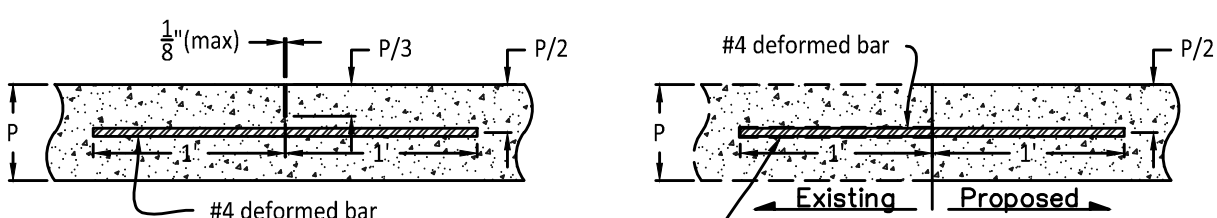
**Transverse Contraction Joint for Residential Streets**

**Transverse Contraction Joint for Arterial Streets**



**Transverse Expansion Joints**

**Sealing Detail**

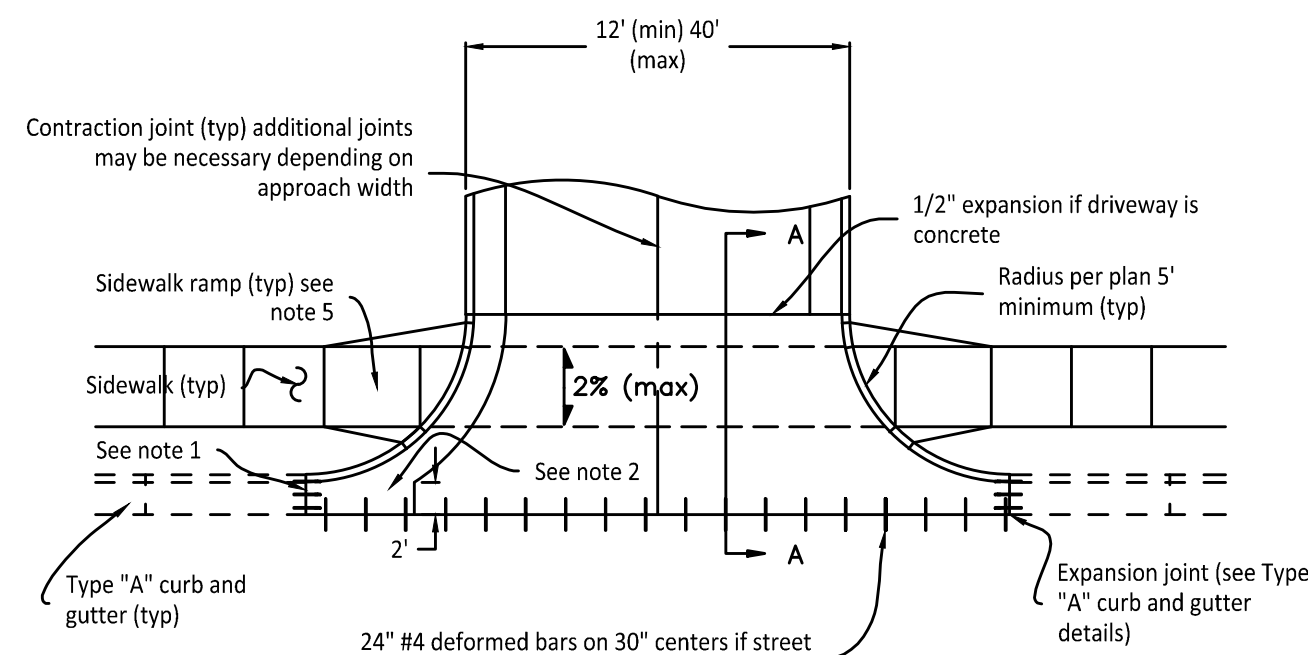


**Longitudinal Contraction Joint**

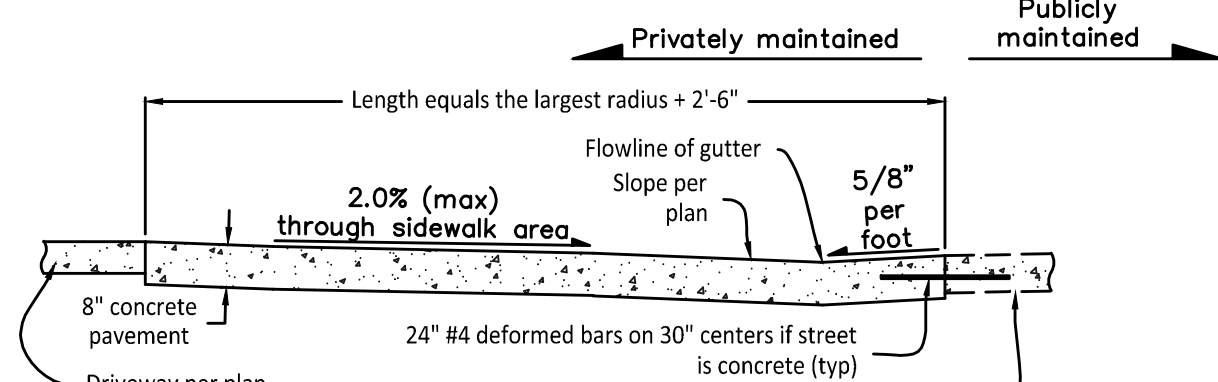
**Longitudinal and Transverse Construction Joints**

Notes:

1. Sawn joints are to be a maximum of 1/8" wide. Joint sealing is not required for 1/8" joints.
2. Expansion joints shall be a minimum of 1/2" wide. The top 1" of the filler material is to be removed and the joint is to be sealed with hot poured joint sealer meeting the MoDOT specification 1057.5. Dowels are to be 1" smooth bars with expansion tubes and grease on one end.
3. All tie bars and dowels used in concrete pavements shall be epoxy coated meeting MoDOT specification 1057.
4. All bars placed in existing concrete shall be bonded to the concrete using epoxy or polyester bonding agents meeting the specification of MoDOT section 1039.30
5. All dowel and bar supports shall meet the requirements of MoDOT.



**Commercial Drive Approach**

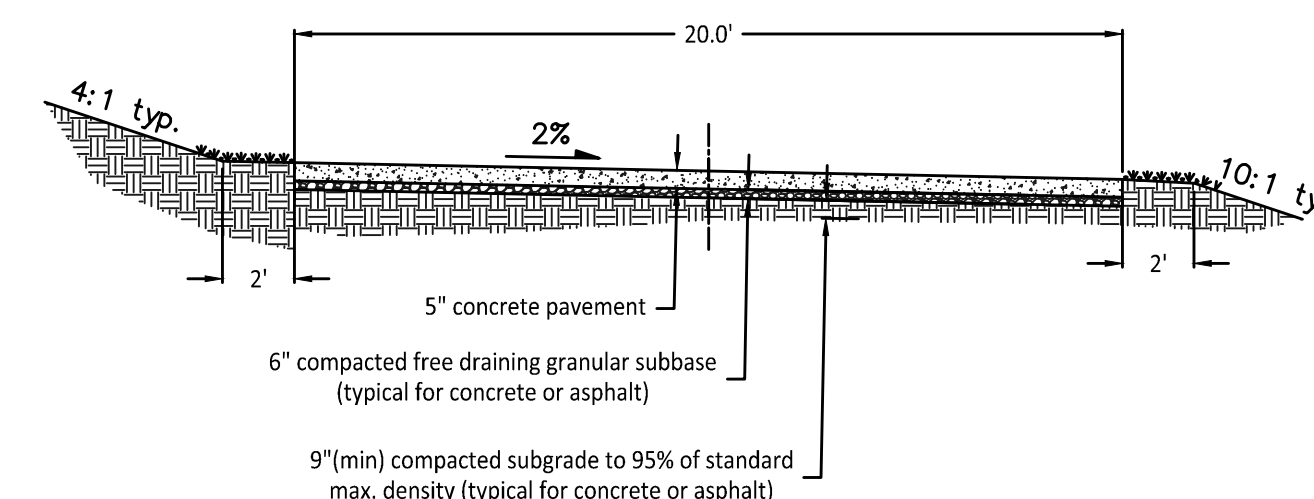


**Section A-A**

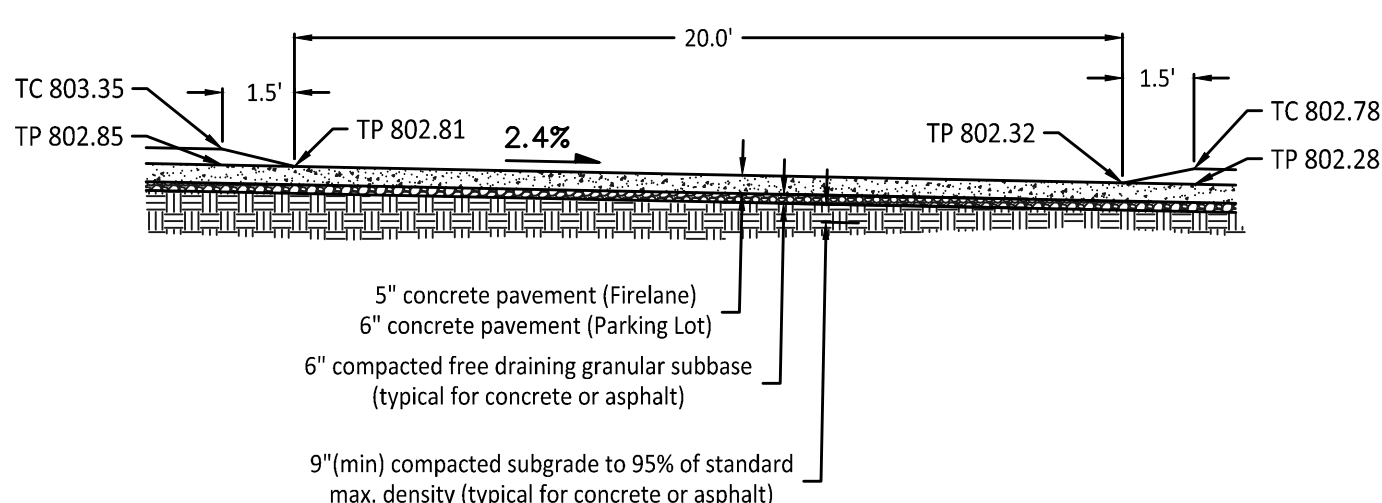
Notes:

1. In the event that a driveway approach radius falls within two feet of a contraction or construction joint in the existing curb and gutter or street, the curb and gutter or associated street shall be removed to that joint and a standard expansion joint installed.
2. Commercial drive approaches are typically constructed with monolithic curbs. It is permissible for them to be constructed with a curb and gutter section placed separately. If this option is chosen then the gutter pan shall be extended to meet the street when the distance between the edge of the street and the gutter becomes less than 2 feet.
3. In the case of a curb poured monolithically with the street the street shall be cut at 30" from the back of the curb and the approach constructed as shown.
4. All commercial approaches regardless of the existence of sidewalks shall be constructed with an area 5 feet in width that has a slope of 2% or less to provide A.D.A. access across the approach.
5. If the commercial approach is signalized or is controlled by a stop sign the sidewalk ramps shall have detectable warning panels.

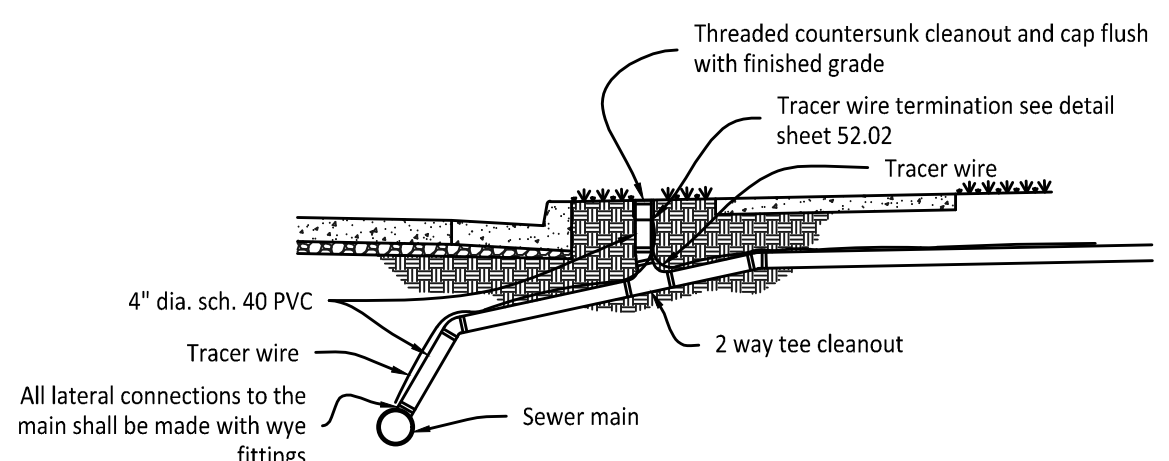
**2 COMMERCIAL DRIVE APPROACH**  
SCALE: N.T.S.



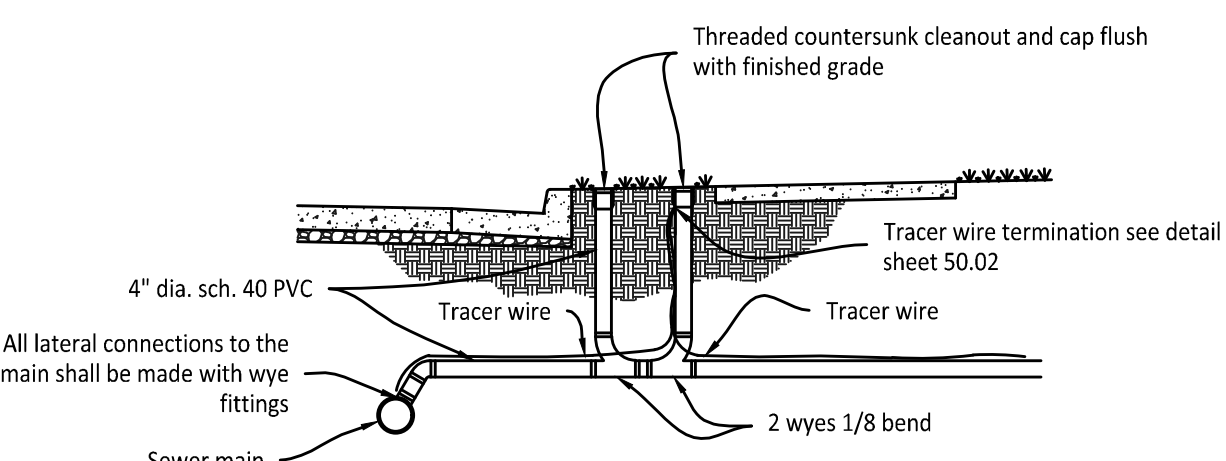
**3 20' WIDE FIRE LANE (Typ.)**  
SCALE: N.T.S.



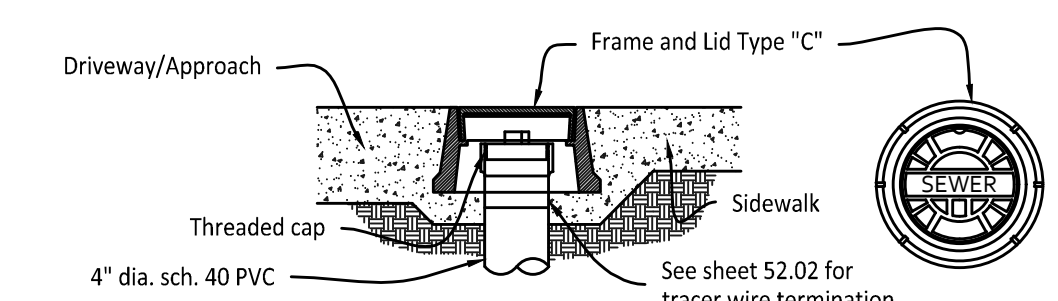
**4 20' WIDE FIRE LANE @ CURB/GUTTER**  
SCALE: N.T.S.



**Sanitary Sewer Lateral Cleanout less than 2 feet of cover**



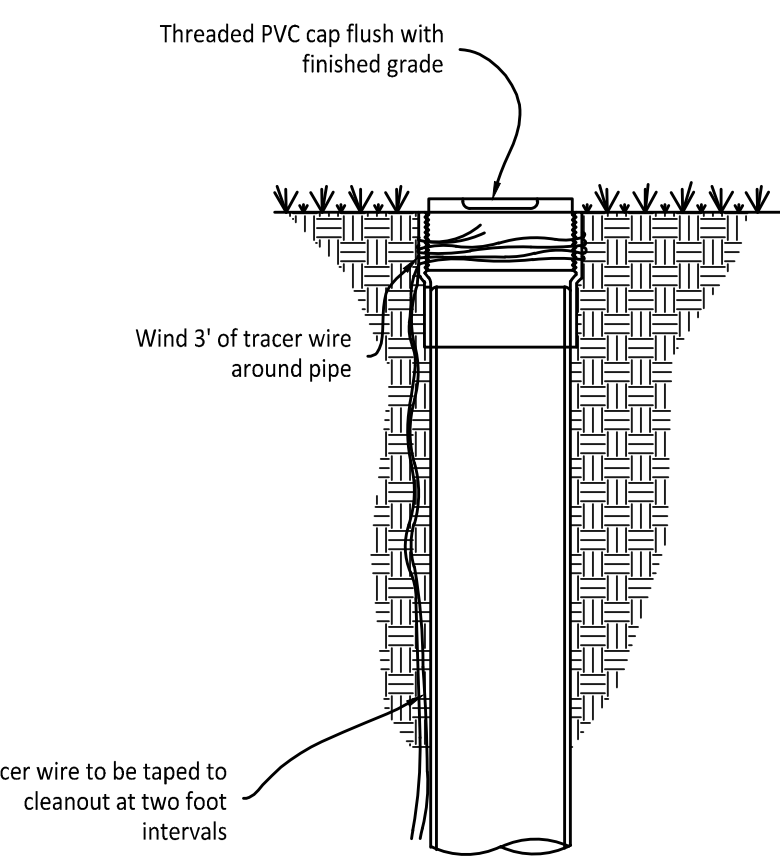
**Sanitary Sewer Lateral Cleanout 2 feet or more of cover**



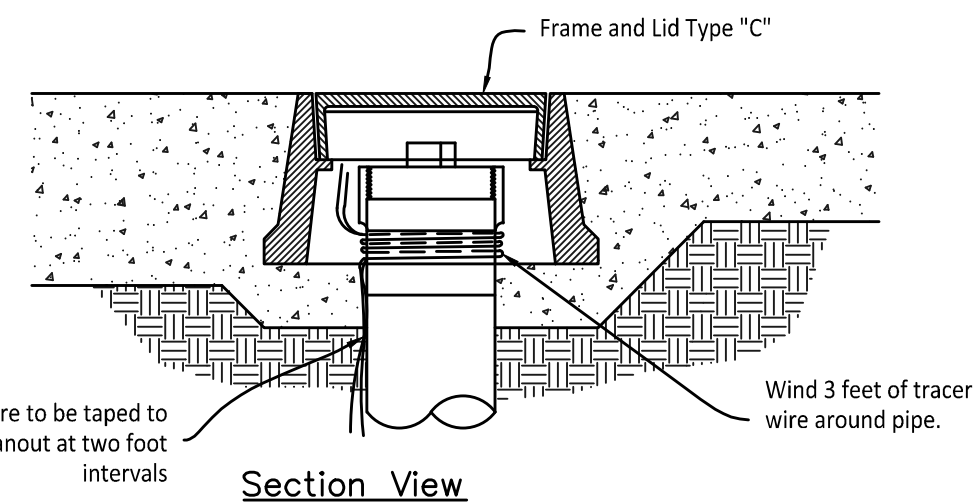
**Sanitary Sewer Lateral Cover when cleanout is located in pavement**

- Sewer Lateral Notes:**
1. The location of the cleanouts may vary from the location shown.
  2. In the case were a lateral is being stubbed out for future use the lateral should extend a minimum of one foot beyond the cleanout or beyond the back of the sidewalk and shall be sealed with a glued on cap.
  3. 12 gauge insulated copper tracer wire shall extend to the limits of all lateral installation. The wire shall be taped to the lateral at intervals not exceeding 10 feet.

**5 SEWER LATERAL CLEANOUT DETAILS**  
SCALE: N.T.S.



**Cleanout Tracer Wire Termination when cleanout is not in pavement**

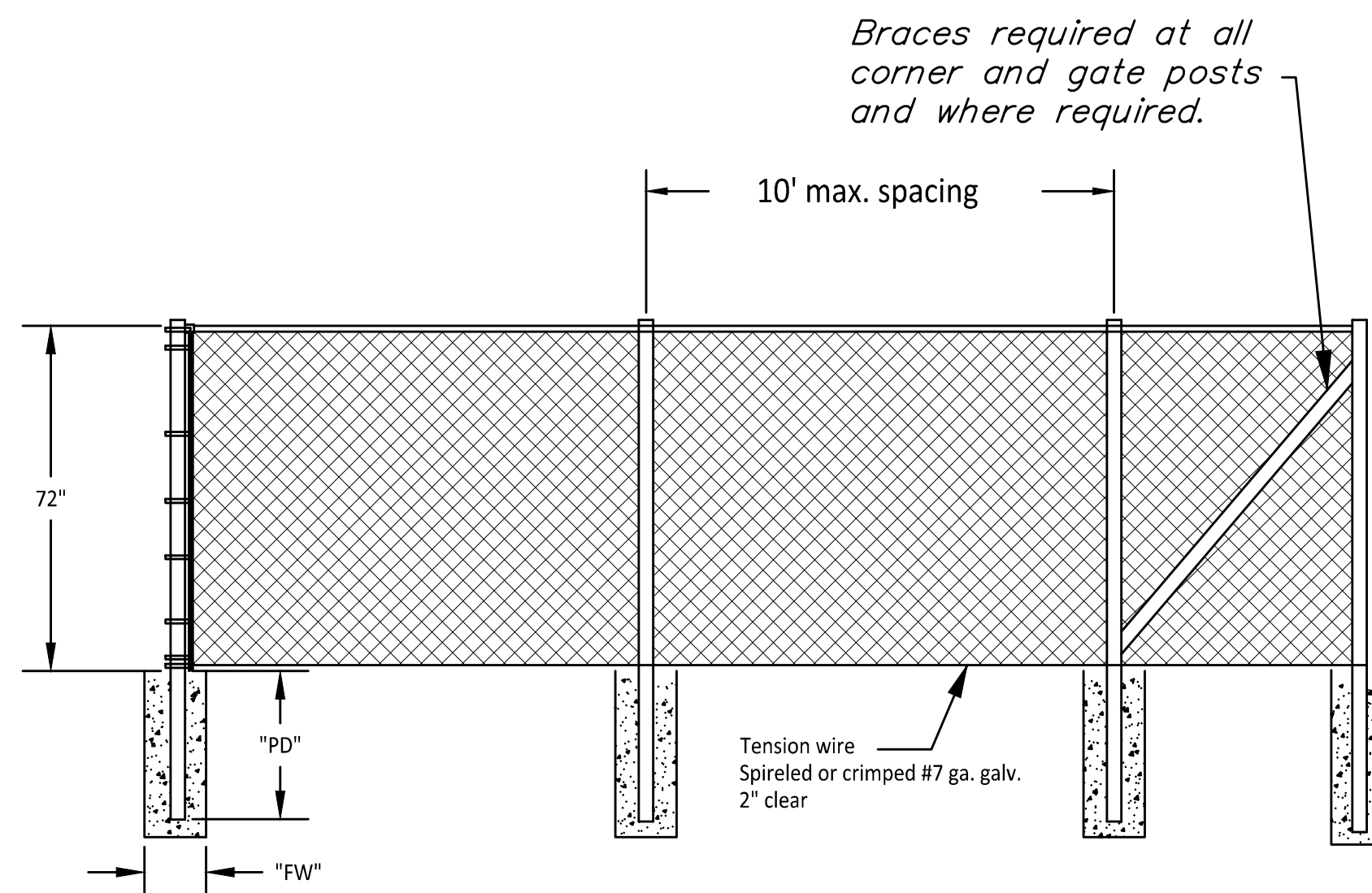


**Cleanout Tracer Wire Termination when cleanout is located in paved surface**

Sewer Lateral Notes:

1. Tracer wire shall be 12 gauge solid copper per Jefferson City forcemain specifications.
2. For new construction tracer wire shall be placed from the sewer main to the building foundation. For retrofit or reconstruction the tracer wire shall be placed for the extent of the construction.

**6 TRACER WIRE TERMINATION DETAILS**  
SCALE: N.T.S.

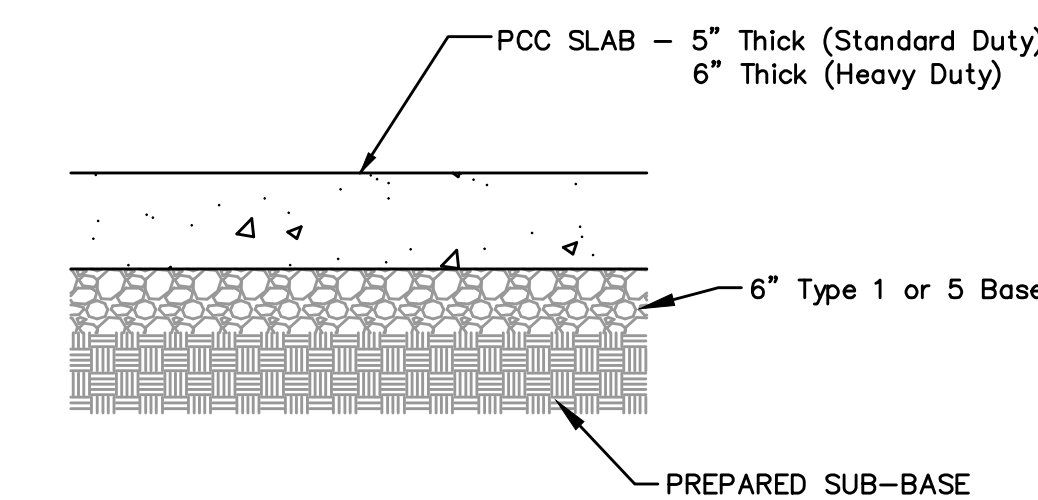


**FENCE NOTES:**

1. Refer to Sheet C102 for Locations.
2. Corner Post Bands shall be 1" and placed at 14" O.C.
3. Post Holes shall be 4x the Diameter of the Post or as indicated below, whichever is greatest.
4. Fencing shall be Black vinyl coated.

Height	Wire Mesh Size	Wire Mesh Gauge	Turn Post Size	Turn Post Gauge	Line Post Size	Line Post Gauge	Gate Gauge(yp)	Top Rail Size/Gauge	PD	FW
42"	2"	9	2 1/2"	40	2"	40	9	1 5/8" / Sch. 40	30"	10"
72"	2"	9	3"	40	2"	40	9	1 5/8" / Sch. 40	40"	10"
96"	2"	9	3"	40	2 1/2"	40	9	1 5/8" / Sch. 40	40"	10"

**7 6' SECURITY FENCE DETAILS**  
SCALE: N.T.S.



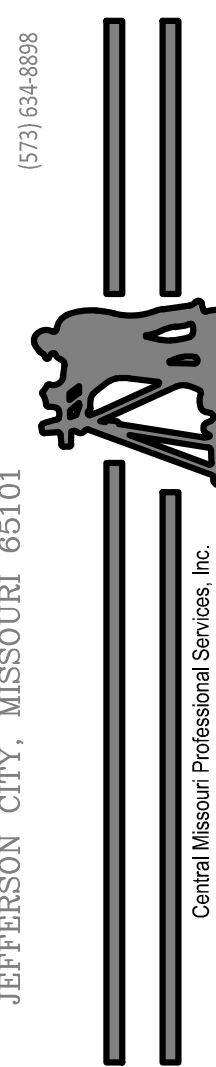
**8 CONCRETE PAVEMENT**  
SCALE: N.T.S.

Space Reserved for Approving Authority



02/11/25

Central Missouri Professional Services, Inc.  
ENGINEERING - SURVEYING - MATERIALS TESTING  
2500 E. McCARTY  
JEFFERSON CITY, MISSOURI 65101



OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
Office of  
Administration

SITE DEVELOPMENT  
AND SECURITY

SCRUGGS STATION  
WAREHOUSE  
4720 SCRUGGS STATION RD.  
JEFFERSON CITY, MO 65109

PROJECT # 0243308  
SITE # 1046  
FACILITY # 3101046001

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 2/11/2025

CAD DWG FILE: 81-099 State OA Fleet  
DRAWN BY: GJS  
CHECKED BY: GJS  
DESIGNED BY: GJS

SHEET TITLE:  
**DETAILS**

SHEET NUMBER:

**C501**  
9 OF 9 SHEETS  
02/11/2025