

POPLAR STREET LANE AND 3RD STREET STORMWATER IMPROVEMENTS

MACON, BIBB COUNTY, GA 31201

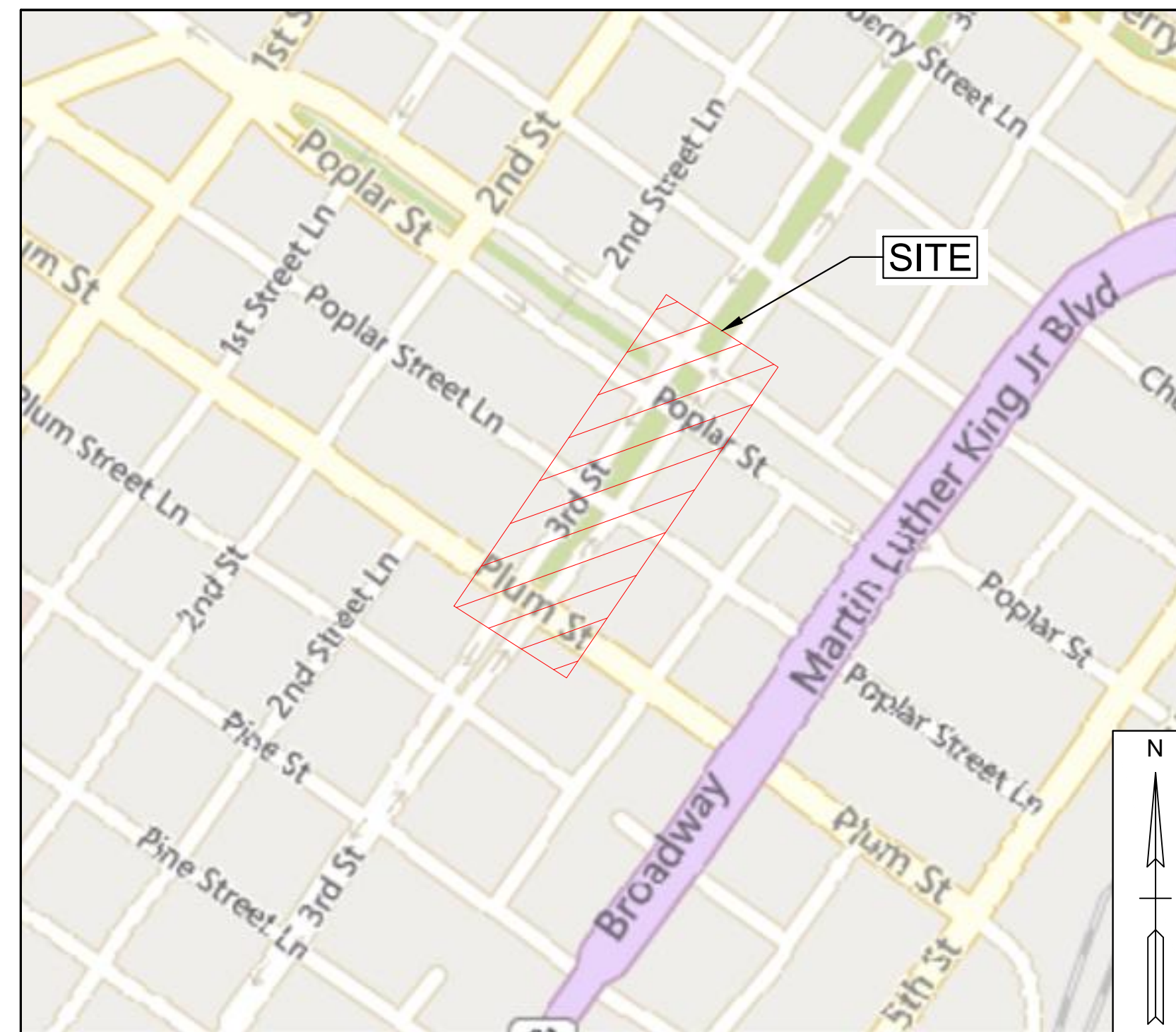
CONTACTS

OWNER MACON WATER AUTHORITY
790 2ND STREET
MACON, GA 31201
CONTACT: HEATHER VEAL

DESIGN PROFESSIONAL BARGE DESIGN SOLUTIONS
2839 PACES FERRY ROAD SE | SUITE 850
ATLANTA, GA 30339
770.628.7631
CONTACT: BRIAN J. HART, PE

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VICINITY MAP

NOT TO SCALE

FEMA NOTE

THIS PARCEL IS NOT LOCATED IN A FLOOD HAZARD AREA ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY NO. 13021C, PANEL NO. 0134G, DATED JUNE 7, 2017, ZONE "X."



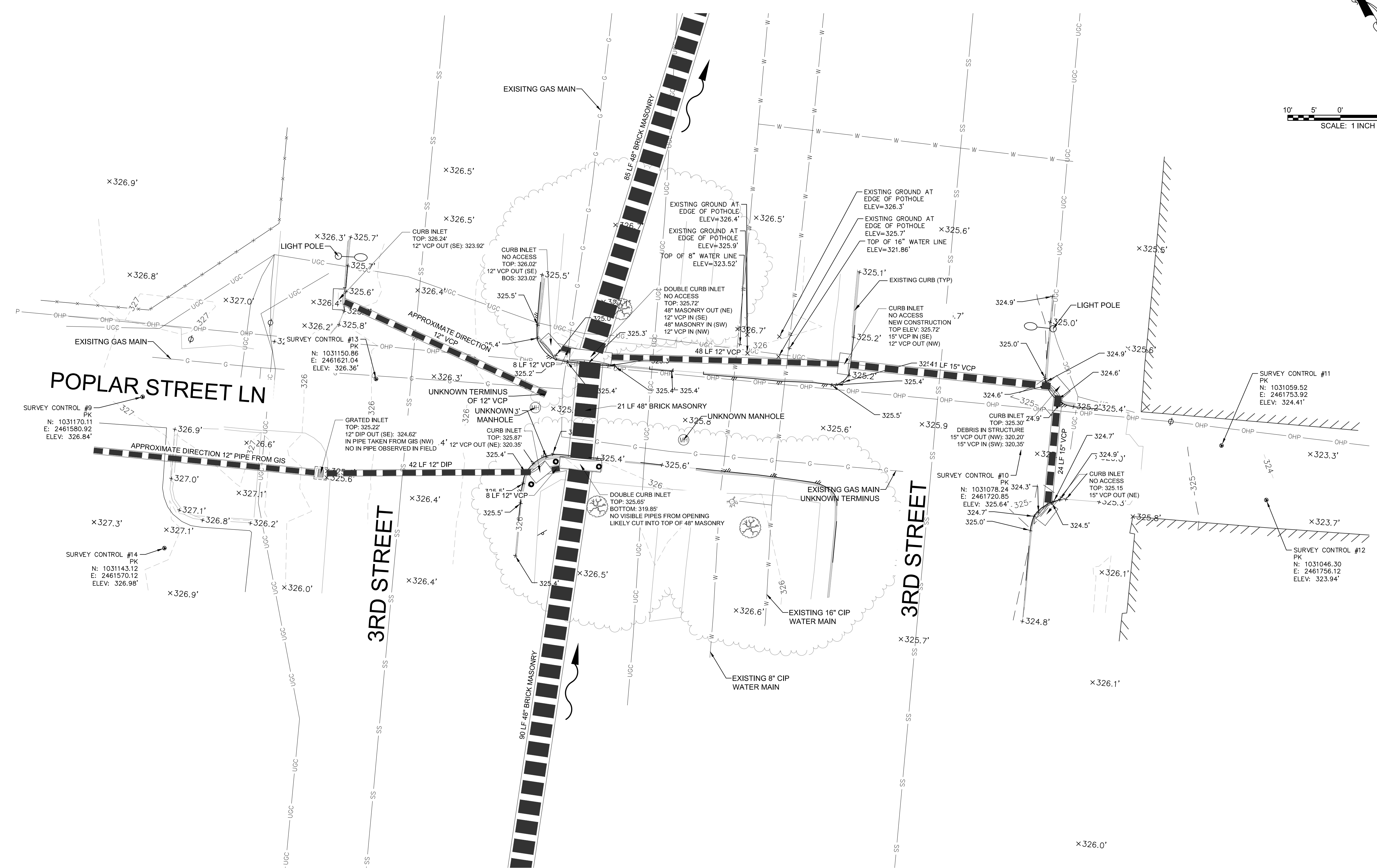
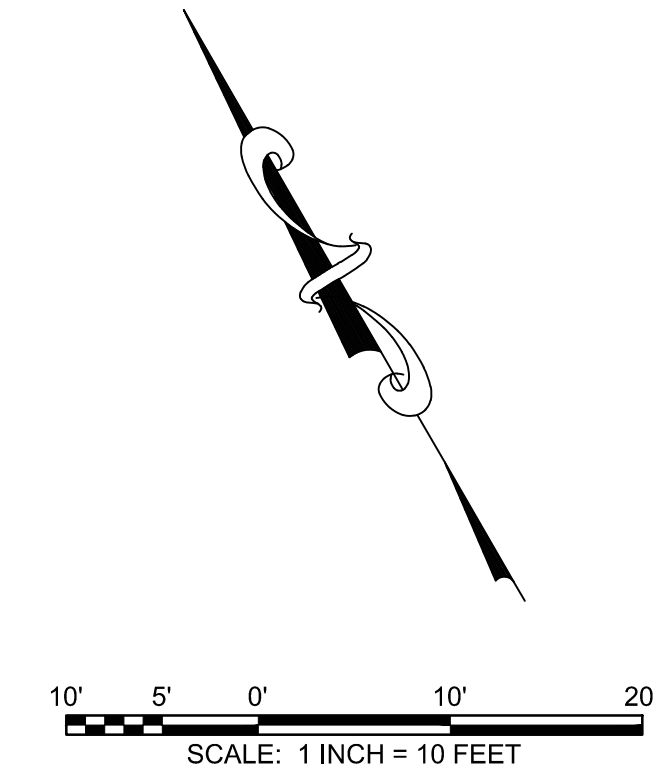
POPLAR STREET LANE AND 3RD STREET
STORMWATER IMPROVEMENTS
MACON, BIBB COUNTY, GA 31201



2839 Paces Ferry Road // Suite 850 // Atlanta, GA 30339
PHONE (770) 628-7631 // FAX (770) 805-0903

C0.00
PROJECT No.
3618119

- SURVEY NOTES:**
- EXISTING CONDITIONS AND TOPOGRAPHIC SURVEY WAS PERFORMED BY BARGE DESIGN SOLUTIONS ON 08/24/2022.
 - THIS SURVEY REFERENCES THE GA83-WF COORDINATE SYSTEM AND THE NAD83 VERTICAL DATUM.
 - THE BENCHMARKS USED ON THIS SITE ARE AS SHOWN ON THIS SHEET.
 - SANITARY SEWER UTILITY LOCATION BASED ON MACON WATER AUTHORITY GIS.
 - THE CONTRACTOR SHALL VERIFY LOCATIONS AND INVERTS OF ALL EXISTING UTILITIES (INCLUDING STORM DRAINAGE PIPES OR STRUCTURES AND ALL WATER MAINS) BEFORE COMMENCEMENT OF CONSTRUCTION.



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EXISTING CONDITIONS

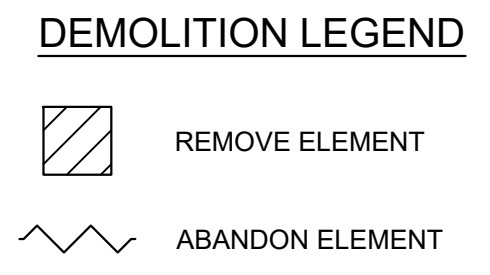
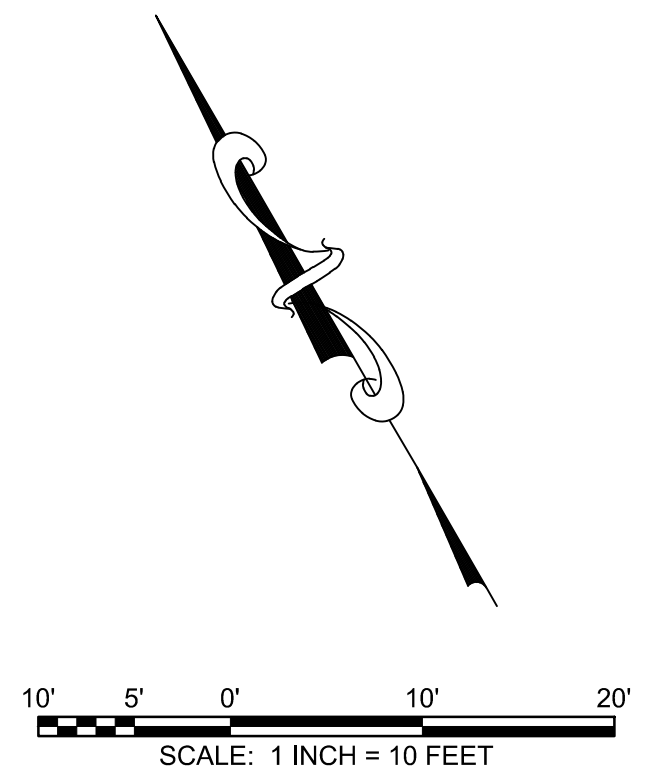
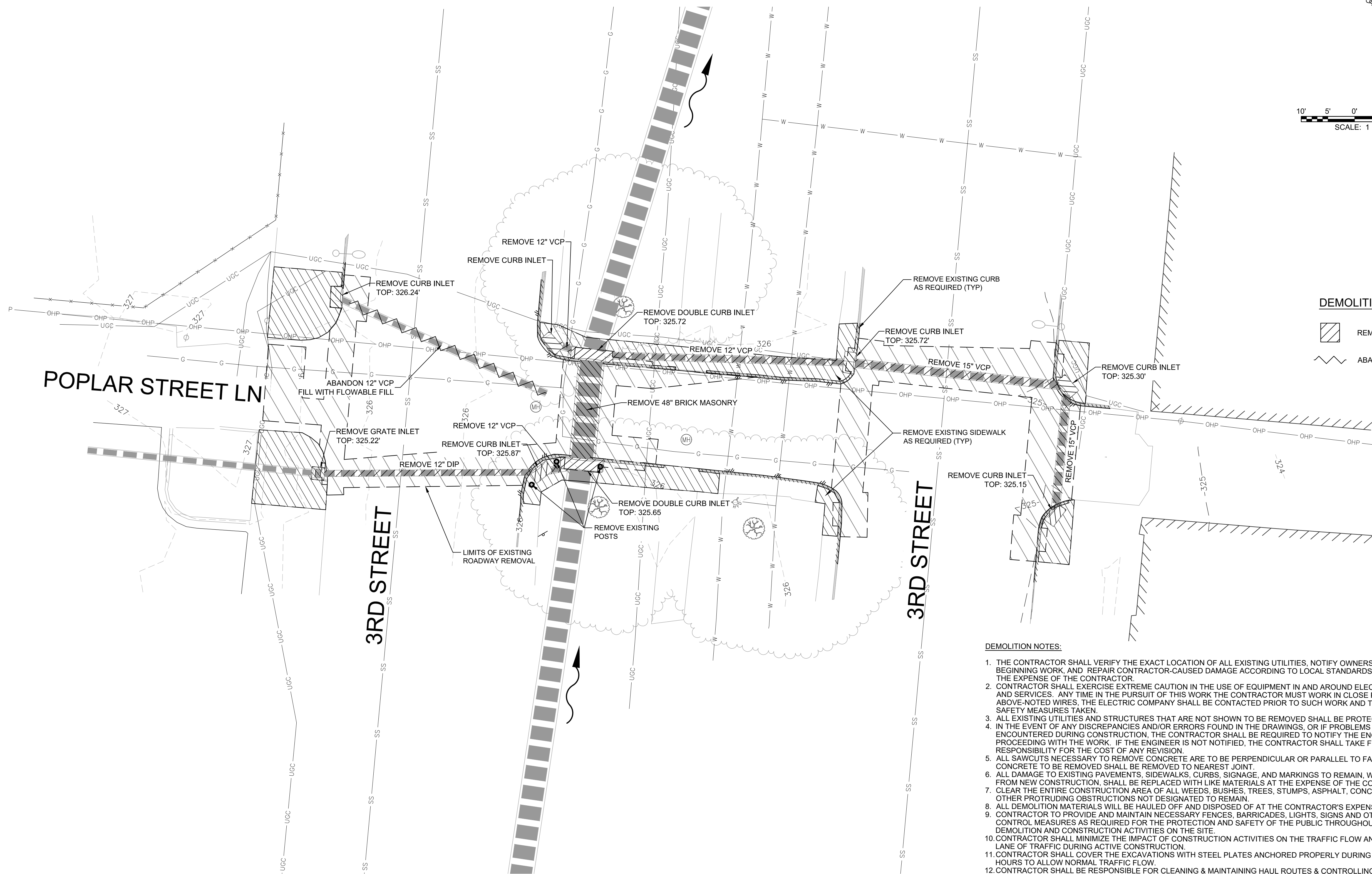
**POPLAR STREET LANE AND 3RD STREET
STORMWATER IMPROVEMENTS**
MACON WATER AUTHORITY

REV.	DR.	CHK.	DATE	DESCRIPTION
0	DJT	BH	12/12/2023	ISSUED FOR BIDDING

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C0.21
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FILE: \\oprpw\pwws\individual\Projects\3618119\04_CAD\WATER\PL01\3618119_C1.XXDwg
SAVED: 12/12/2023
PLOTTED: 12/12/2023



- DEMOLITION NOTES:**
1. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, NOTIFY OWNERS PRIOR TO BEGINNING WORK, AND REPAIR CONTRACTOR-CAUSED DAMAGE ACCORDING TO LOCAL STANDARDS AND CODES AT THE EXPENSE OF THE CONTRACTOR.
 2. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN THE USE OF EQUIPMENT IN AND AROUND ELECTRICAL WIRES AND SERVICES. ANY TIME IN THE PURSUIT OF THIS WORK THE CONTRACTOR MUST WORK IN CLOSE PROXIMITY OF THE ABOVE-NOTED WIRES, THE ELECTRIC COMPANY SHALL BE CONTACTED PRIOR TO SUCH WORK AND THE PROPER SAFETY MEASURES TAKEN.
 3. ALL EXISTING UTILITIES AND STRUCTURES THAT ARE NOT SHOWN TO BE REMOVED SHALL BE PROTECTED.
 4. IN THE EVENT OF ANY DISCREPANCIES AND/OR ERRORS FOUND IN THE DRAWINGS, OR IF PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. IF THE ENGINEER IS NOT NOTIFIED, THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR THE COST OF ANY REVISION.
 5. ALL SAWCUTS NECESSARY TO REMOVE CONCRETE ARE TO BE PERPENDICULAR OR PARALLEL TO FACE OF CURB. ALL CONCRETE TO BE REMOVED SHALL BE REMOVED TO NEAREST JOINT.
 6. ALL DAMAGE TO EXISTING PAVEMENTS, SIDEWALKS, CURBS, SIGNAGE, AND MARKINGS TO REMAIN, WHICH RESULT FROM NEW CONSTRUCTION, SHALL BE REPLACED WITH LIKE MATERIALS AT THE EXPENSE OF THE CONTRACTOR.
 7. CLEAR THE ENTIRE CONSTRUCTION AREA OF ALL WEEDS, BUSHES, TREES, STUMPS, ASPHALT, CONCRETE/CURBS & OTHER PROTRUDING OBSTRUCTIONS NOT DESIGNATED TO REMAIN.
 8. ALL DEMOLITION MATERIALS WILL BE HAULED OFF AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
 9. CONTRACTOR TO PROVIDE AND MAINTAIN NECESSARY FENCES, BARRICADES, LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL MEASURES AS REQUIRED FOR THE PROTECTION AND SAFETY OF THE PUBLIC THROUGHOUT THE DEMOLITION AND CONSTRUCTION ACTIVITIES ON THE SITE.
 10. CONTRACTOR SHALL MINIMIZE THE IMPACT OF CONSTRUCTION ACTIVITIES ON THE TRAFFIC FLOW AND MAINTAIN ONE LANE OF TRAFFIC DURING ACTIVE CONSTRUCTION.
 11. CONTRACTOR SHALL COVER THE EXCAVATIONS WITH STEEL PLATES ANCHORED PROPERLY DURING NON-WORKING HOURS TO ALLOW NORMAL TRAFFIC FLOW.
 12. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING & MAINTAINING HAUL ROUTES & CONTROLLING DUST. CLEANING SHOULD BE CONTINUOUS DURING ACTIVE WORK.
 13. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF EROSION CONTROL PRIOR TO DEMOLITION OPERATIONS BEGINNING INCLUDING, BUT NOT LIMITED TO, SILT FENCES & INLET PROTECTION WHERE WATER DRAINS OFF DISTURBED AREAS - SEE EROSION CONTROL PLANS.
 14. CONTRACTOR SHALL NOT DISTURB EXISTING CONDITIONS OUTSIDE RIGHT-OF-WAY UNLESS OTHERWISE NOTED; ANY DAMAGES INCURRED WILL BE REPAIRED AT CONTRACTOR'S EXPENSE.
 15. CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES AND OBTAIN ALL PERMITS REQUIRED FOR DEMOLITION AND CONSTRUCTION.
 16. NOTIFY OWNER TWO WEEKS PRIOR TO DEMOLITION TO ALLOW REMOVAL OF SALVAGEABLE MATERIALS.

BARGE
DESIGN SOLUTIONS

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DEMOLITION & ABANDONMENT PLAN

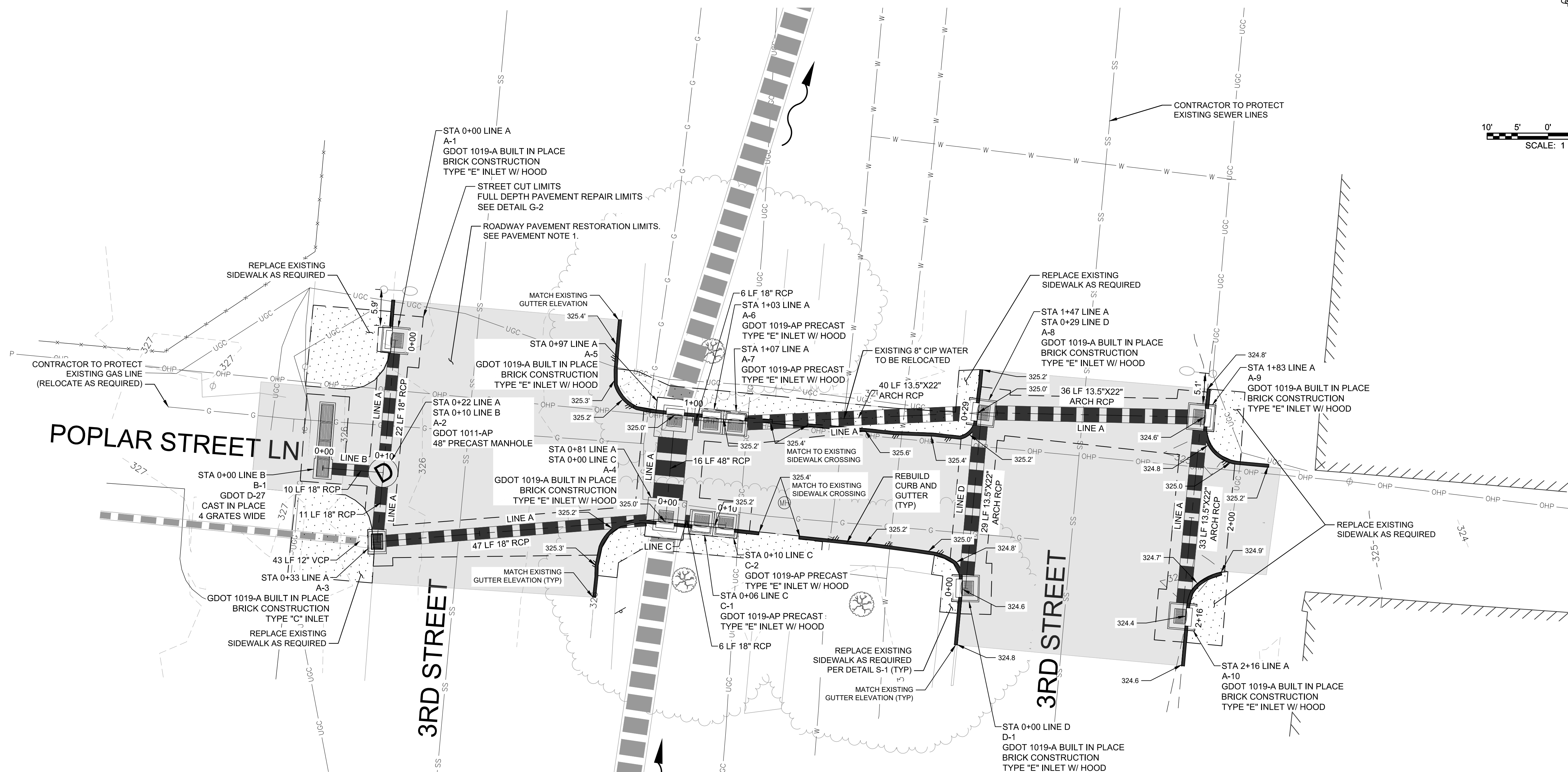
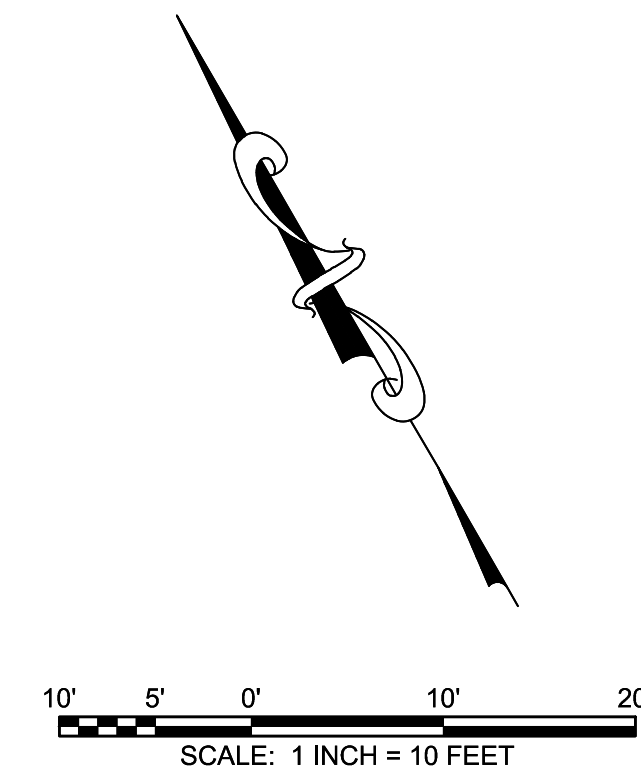
**POPLAR STREET LANE AND 3RD STREET
STORMWATER IMPROVEMENTS**

MACON WATER AUTHORITY

REV.	DR.	CHK.	DATE	DESCRIPTION
0	DJT	BH	12/12/2023	ISSUED FOR BIDDING

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UTILITY NOTES:

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND INVERTS OF ALL EXISTING UTILITY LINES AND STRUCTURES (INCLUDING STORM DRAINAGE PIPES OR STRUCTURES) BEFORE THE COMMENCEMENT OF CONSTRUCTION.
2. CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ANY APPLICABLE FEES.
3. IN THE EVENT OF ANY DISCREPANCIES AND/OR ERRORS FOUND IN THE DRAWINGS, OR IF PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. IF ENGINEER IS NOT NOTIFIED, THE CONTRACTOR SHALL TAKE RESPONSIBILITY FOR THE COST OF ANY REVISION.
4. THE CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE, AND COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
5. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN THE USE OF EQUIPMENT IN AND AROUND OVERHEAD AND UNDERGROUND ELECTRICAL WIRES AND SERVICES. IF AT ANY TIME IN THE PURSUIT OF THIS WORK THE CONTRACTOR MUST WORK IN THE CLOSE PROXIMITY OF THE ABOVE NOTED WIRES, THE ELECTRIC COMPANY SHALL BE CONTRACTED PRIOR TO SUCH WORK AND THE PROPER SAFETY MEASURES IN THE PROJECT AREA SHOULD BE MADE BY THE CONTRACTOR PRIOR TO THE INITIATION OF CONSTRUCTION.
6. THE OWNER AND ENGINEER DO NOT ASSUME RESPONSIBILITY FOR THE POSSIBILITY THAT, DURING CONSTRUCTION, UTILITIES OTHER THAN THOSE SHOWN MAY BE ENCOUNTERED OR THAT ACTUAL LOCATION OF THOSE SHOWN MAY BE DIFFERENT FROM LOCATIONS DESIGNATED ON THE CONTRACT DRAWINGS. IN AREAS WHERE IT IS NECESSARY THAT EXACT LOCATIONS BE KNOWN OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, FURNISH ALL LABOR AND TOOLS NECESSARY TO EITHER VERIFY AND SUBSTANTIATE OR DEFINITELY ESTABLISH THE POSITION OF UNDERGROUND UTILITY LINES.
7. CONTRACTOR TO COORDINATE WITH MACON WATER AUTHORITY ON WATER LINE RELOCATION MEANS AND METHODS, IF NEEDED.
8. SANITARY SEWER CROSSINGS SHALL BE UNCOVERED PRIOR TO NEW STORM INSTALLATION. ANY DISCREPANCIES THAT MAY CAUSE A CONFLICT BETWEEN THE SEWER AND STORM SHALL BE BROUGHT UP TO MACON WATER AUTHORITY AND THE ENGINEER.

PAVEMENT NOTES:

1. DUE TO THE SHALLOW PRESENCE OF EXISTING BRICK ROADBED MATERIAL, PORTIONS OF THE ROADBED WILL NEED TO BE COMPLETELY REBUILT WITH NEW GRADED AGGREGATE BASE AND ASPHALT MATERIAL AND/OR MILLED AND OVERLAID. FOR BIDDING PURPOSES, THE CONTRACTOR SHALL ASSUME ALL ROADBEDS WILL NEED TO BE REBUILT.

GRADING AND DRAINAGE NOTES:

1. ALL NEWLY CUT OR FILLED AREAS, LACKING ADEQUATE VEGETATION, SHALL BE SEEDED, MULCHED, FERTILIZED AND/OR SODDAS AS REQUIRED TO EFFECTIVELY CONTROL SOIL EROSION.
2. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT NECESSARILY ALL THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY COMPANIES WHICH MAINTAIN A UTILITY LINE WITHIN THE BOUNDARIES OF THE PROJECT PRIOR TO THE INITIATION OF ANY CONSTRUCTION ON THE PROJECT OR IN THE STREETS BORDERING THE PROJECT. THE CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS, WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT, DURING THE WORK ON THE PROJECT.
3. ALL FILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY WITHIN 3% OPTIMUM MOISTURE CONTENT IN 6" LIFTS UNLESS OTHERWISE SPECIFIED.
4. ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE CONSTRUCTION SPECIFICATIONS.
5. PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. GRADING, CLEARING AND THE ERECTION OR REMOVAL OF FENCES ALONG PROPERTY LINES SHALL BE FULLY COORDINATED WITH ADJACENT PROPERTY OWNERS.
6. VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY MACON WATER AUTHORITY OF ANY VARIATIONS PRIOR TO COMMENCEMENT OF WORK.
7. ALL GRADING WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
8. THE CONTRACTOR SHALL VERIFY LOCATIONS AND INVERTS OF ALL EXISTING UTILITIES (INCLUDING STORM DRAINAGE PIPES OR STRUCTURES) BEFORE COMMENCEMENT OF CONSTRUCTION.
9. IN RIGHT OF WAY, CONTRACTOR SHALL PROTECT AND RESTORE PAVEMENT TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING AT THE COMMENCEMENT OF CONSTRUCTION EXCEPT AS NOTED.
10. SURPLUS MATERIAL NOT REQUIRED FOR SITE CONSTRUCTION SHALL BE DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AFTER THE OWNER'S APPROVAL.
11. FILL MATERIAL REQUIRED SHALL MEET THE GEOTECHNICAL SPECIFICATIONS AND SHALL BE BORROWED AT THE CONTRACTOR'S EXPENSE.
12. CONTROL POINTS BY OWNER, GRADE, AND OFFSET STAKES ARE TO BE SET BY THE CONTRACTOR.
13. CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES AND OBTAIN ALL PERMITS PRIOR TO ANY CONSTRUCTION.
14. ANY DAMAGE TO EXISTING ASPHALT OR CONCRETE SURFACES RESULTING FROM NEW CONSTRUCTION SHALL BE REPLACED BY LIKE MATERIALS AT THE CONTRACTOR'S EXPENSE.
15. IN THE EVENT OF ANY DISCREPANCIES AND/OR ERRORS FOUND IN THE DRAWINGS, OR IF PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. IF ENGINEER IS NOT NOTIFIED, THE CONTRACTOR SHALL TAKE RESPONSIBILITY FOR THE COST OF ANY REVISION.

OVERALL GRADING, DRAINAGE & STORM PLAN

POPLAR STREET LANE AND 3RD STREET STORMWATER IMPROVEMENTS

MACON WATER AUTHORITY

REV.	CHK.	DATE	DESCRIPTION
0	BH	12/12/2023	ISSUED FOR BIDDING

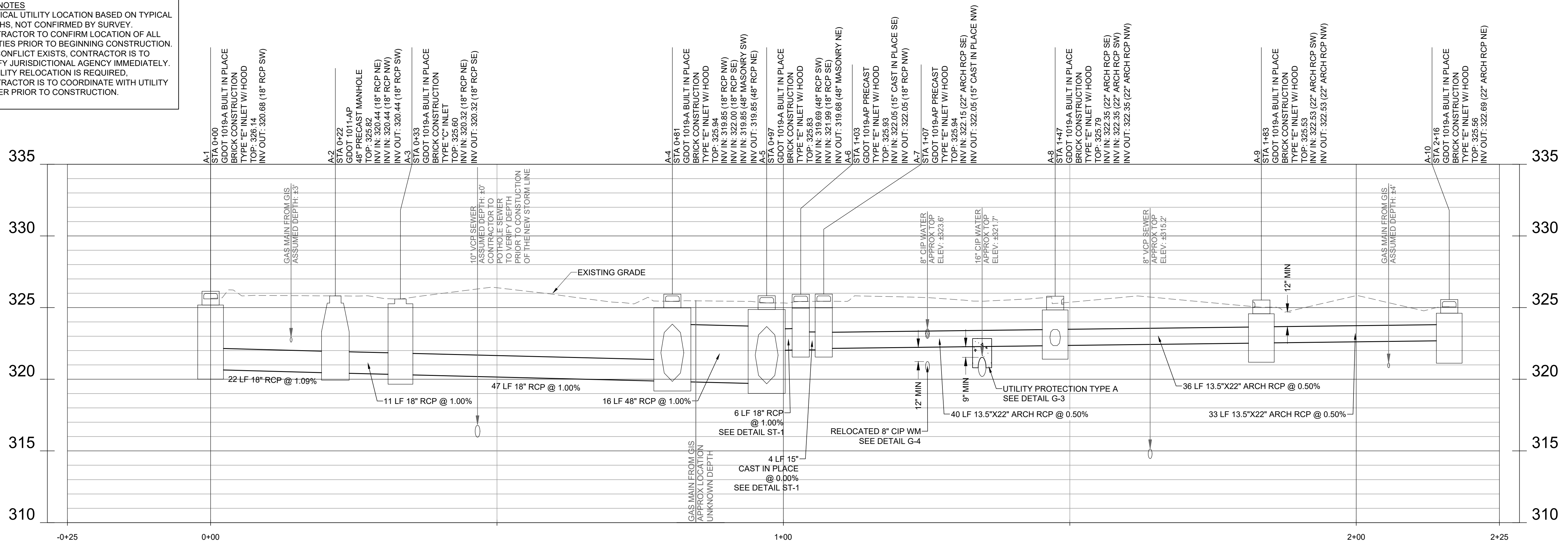


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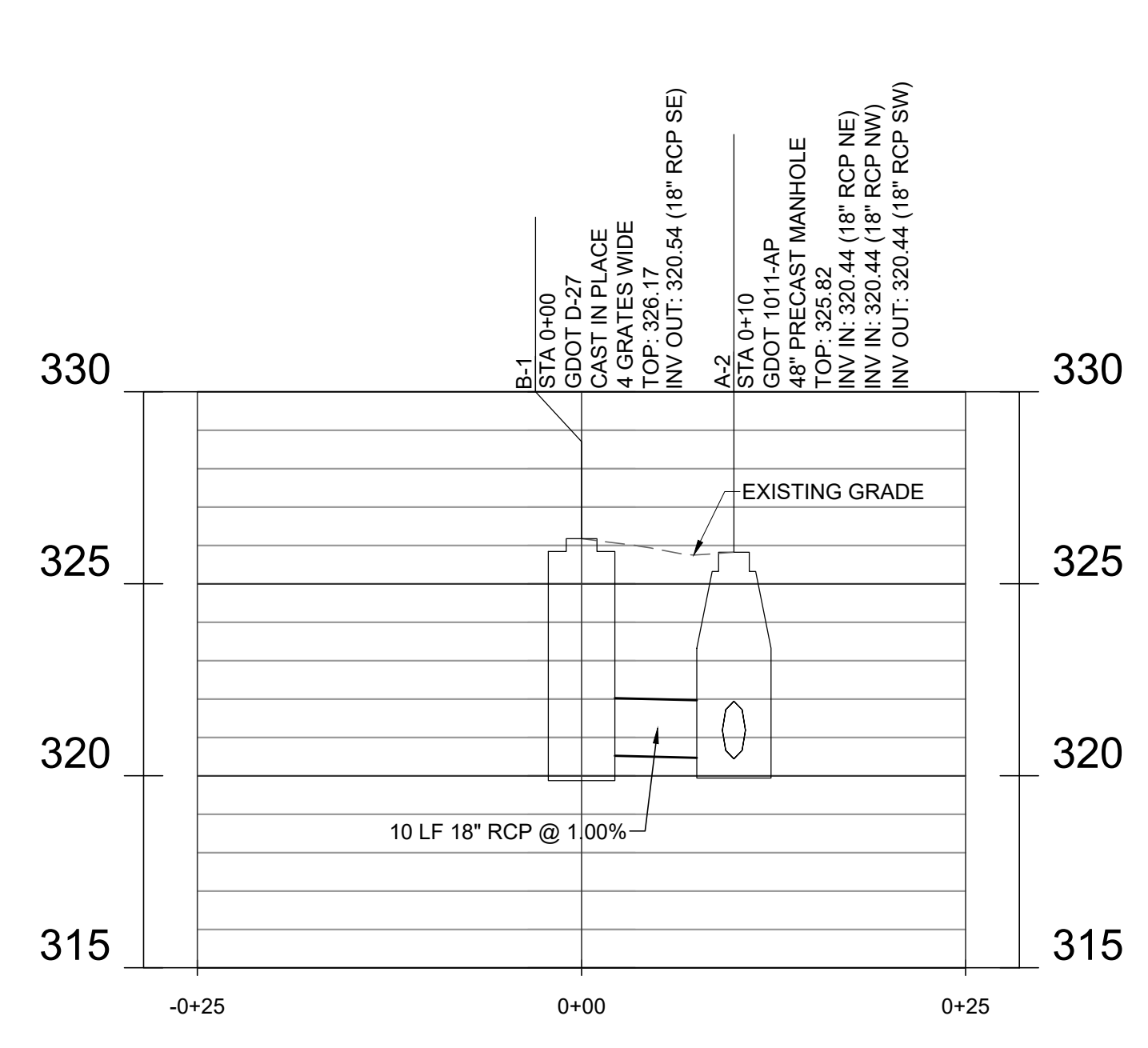
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 PLOT: 12/12/2023

PROFILE NOTES

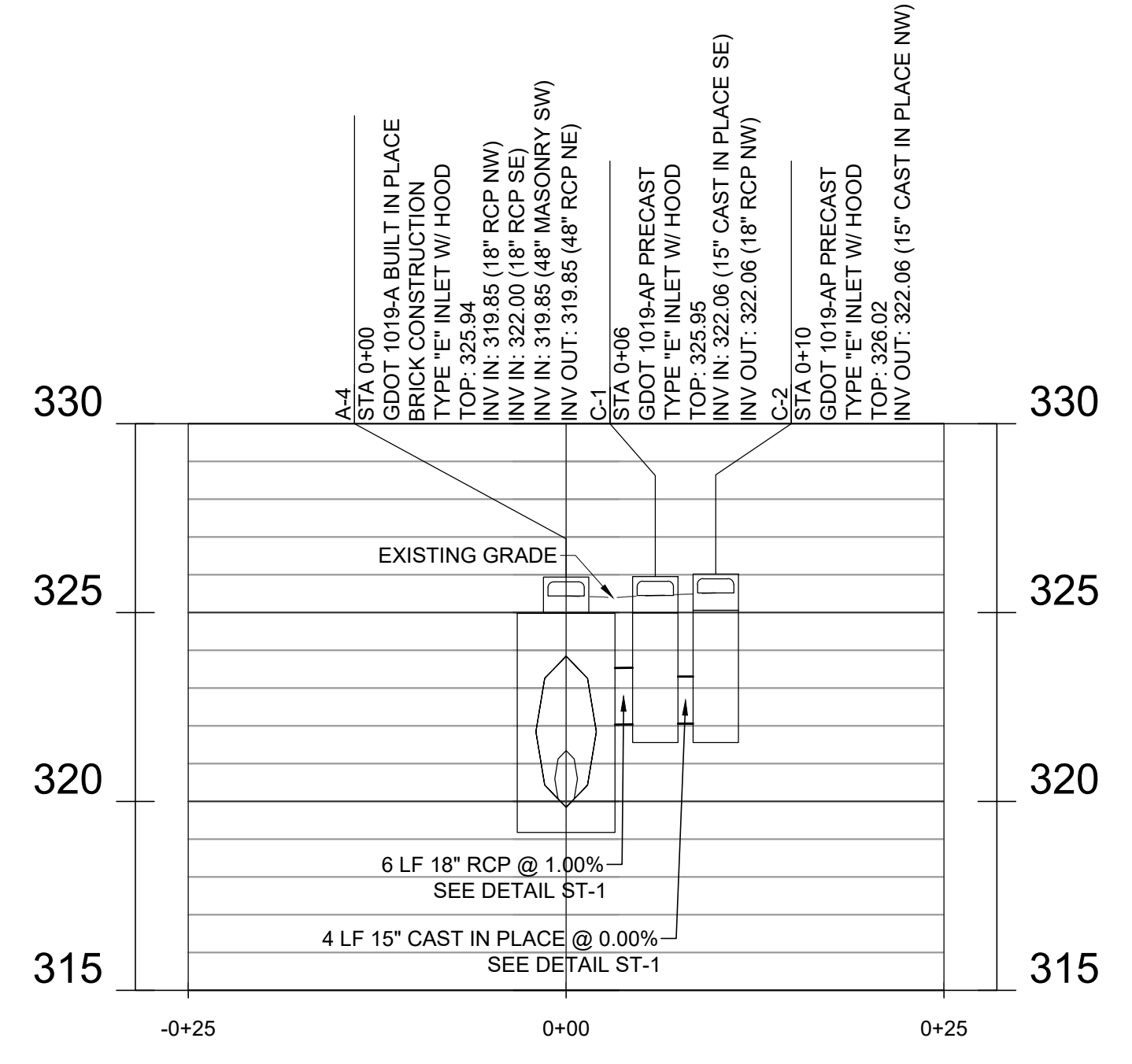
1. VERTICAL UTILITY LOCATION BASED ON TYPICAL DEPTHS, NOT CONFIRMED BY SURVEY. CONTRACTOR TO CONFIRM LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION. IF A CONFLICT EXISTS, CONTRACTOR IS TO NOTIFY JURISDICTIONAL AGENCY IMMEDIATELY.
2. IF UTILITY RELOCATION IS REQUIRED, CONTRACTOR IS TO COORDINATE WITH UTILITY OWNER PRIOR TO CONSTRUCTION.



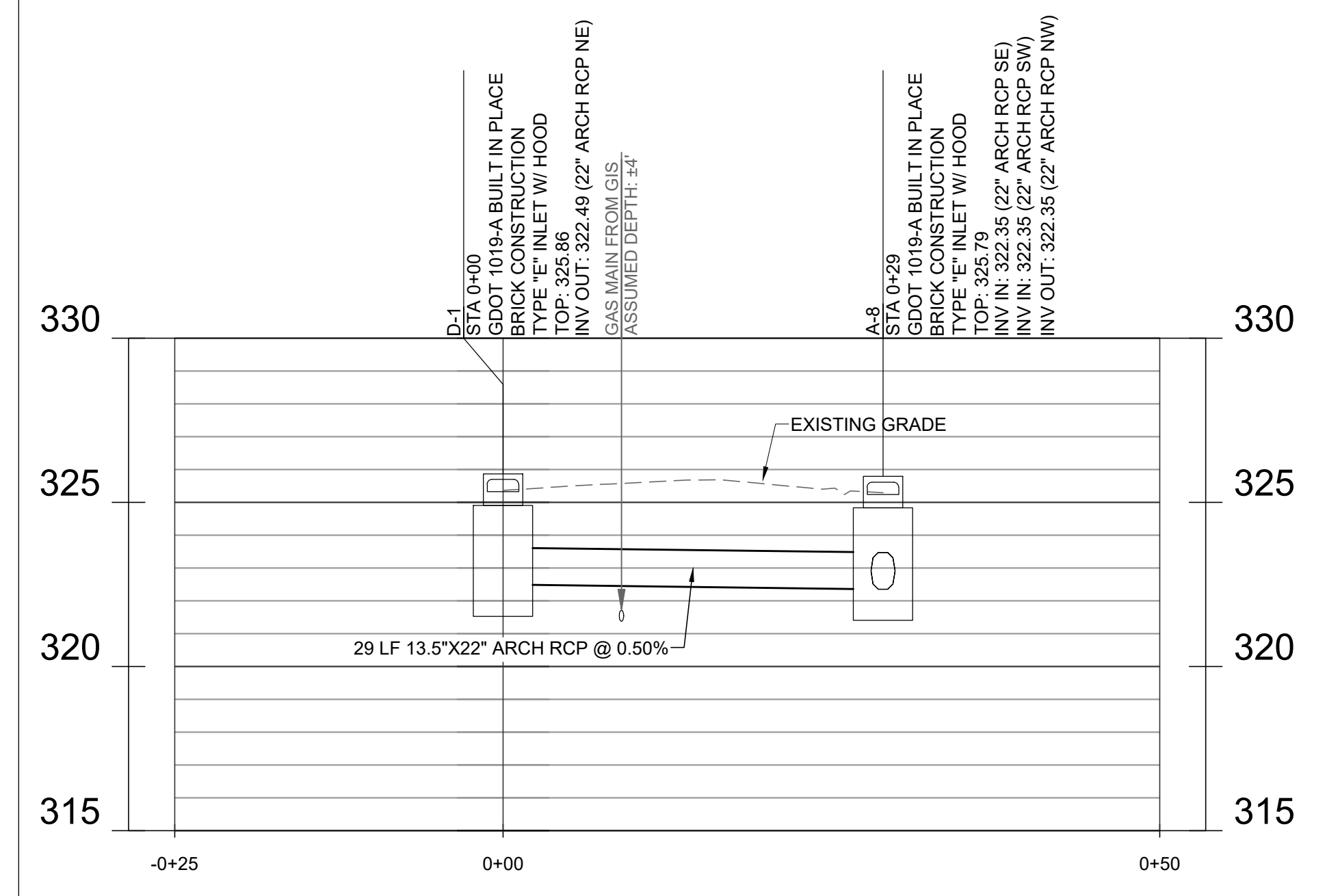
PROFILE VIEW STORM LINE A
 VERTICAL SCALE: 1"=4'
 HORIZONTAL SCALE: 1"=10'



PROFILE VIEW STORM LINE B
 VERTICAL SCALE: 1"=4'
 HORIZONTAL SCALE: 1"=10'



PROFILE VIEW STORM LINE C
 VERTICAL SCALE: 1"=4'
 HORIZONTAL SCALE: 1"=10'



PROFILE VIEW STORM LINE D
 VERTICAL SCALE: 1"=4'
 HORIZONTAL SCALE: 1"=10'



STORMWATER PROFILES
 POPLAR STREET LANE AND 3RD STREET
STORMWATER IMPROVEMENTS
 MACON WATER AUTHORITY

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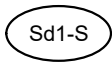
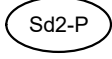
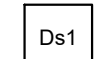


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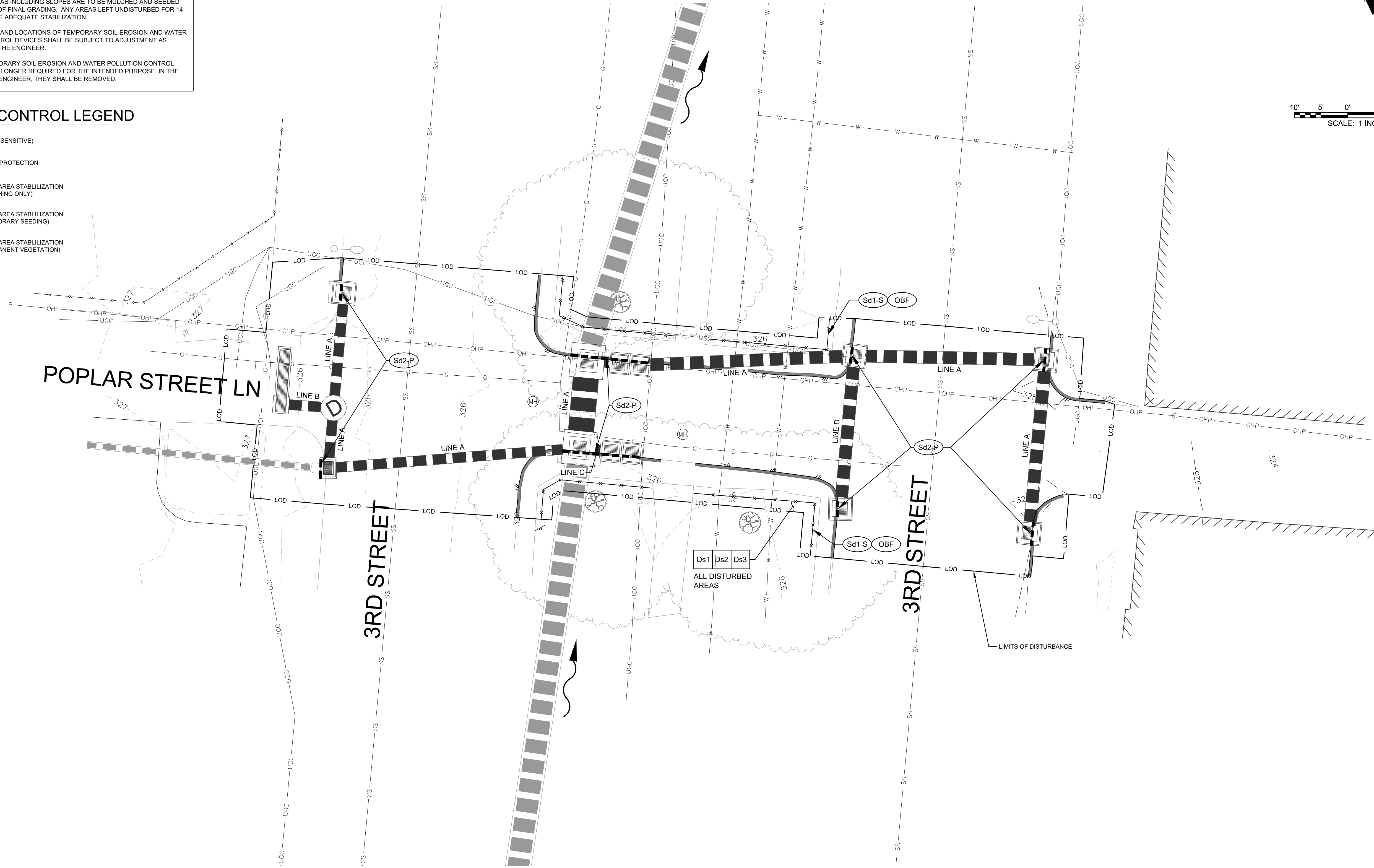
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 PLOT: 12/12/2023

EROSION CONTROL NOTES

1. NO VEGETATION IS TO BE DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES.
2. TOPSOIL IS TO BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS TO A MINIMUM OF 6". THE SOIL IS TO BE STOCKPILED IN THE LOCATIONS AS DESIGNATED BY THE OWNER.
3. ALL GRADED AREAS INCLUDING SLOPES ARE TO BE MULCHED AND SEEDED WITHIN 14 DAYS OF FINAL GRADING. ANY AREAS LEFT UNDISTURBED FOR 14 DAYS SHALL HAVE ADEQUATE STABILIZATION.
4. ALL DIMENSIONS AND LOCATIONS OF TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DESIGNATED BY THE ENGINEER.
5. WHEN THE TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES ARE NO LONGER REQUIRED FOR THE INTENDED PURPOSE, IN THE OPINION OF THE ENGINEER, THEY SHALL BE REMOVED.

EROSION CONTROL LEGEND

-  SILT FENCE (SENSITIVE)
-  CURB INLET PROTECTION
-  DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
-  DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
-  DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)



EROSION CONTROL PLAN
POPLAR STREET LANE AND 3RD STREET
STORMWATER IMPROVEMENTS
MACON WATER AUTHORITY

I, _____, STATE OF GEORGIA CERTIFIED EROSION AND SEDIMENT CONTROL PROFESSIONAL, HAVE REVIEWED THIS PLAN FOR SUFFICIENT ONSITE EROSION AND SEDIMENT CONTROL PROVISIONS.

SIGNATURE

DATE

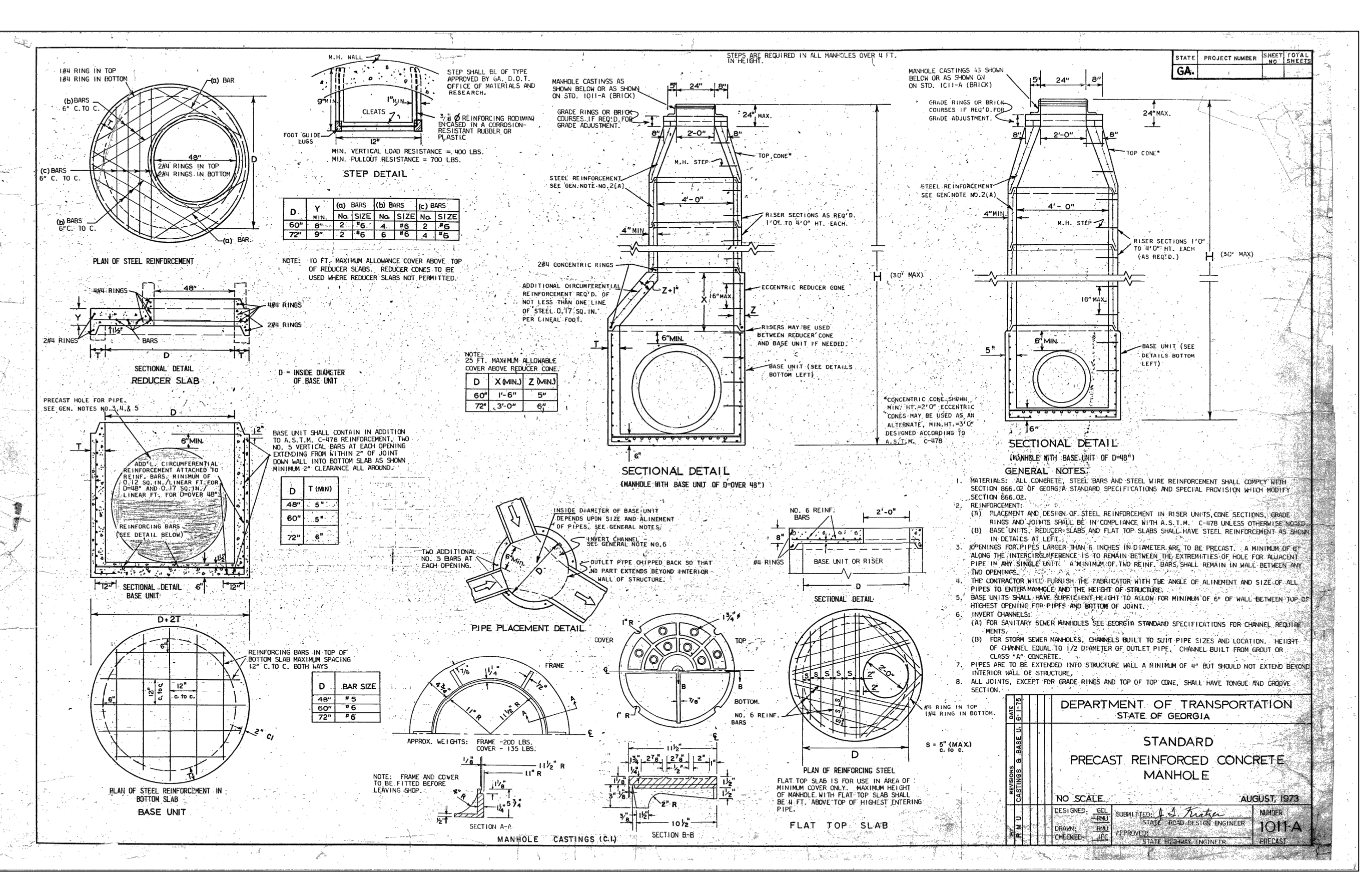
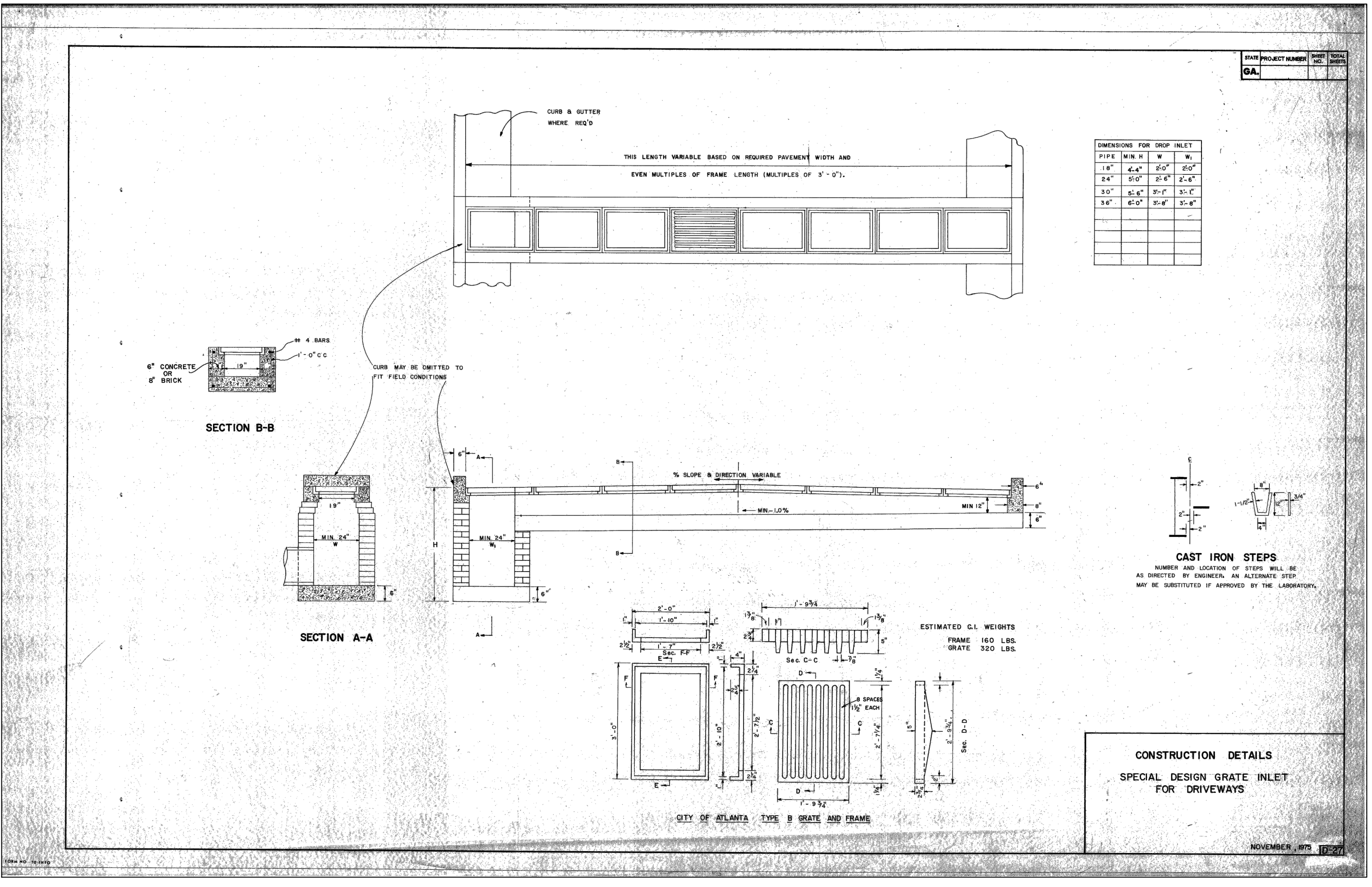
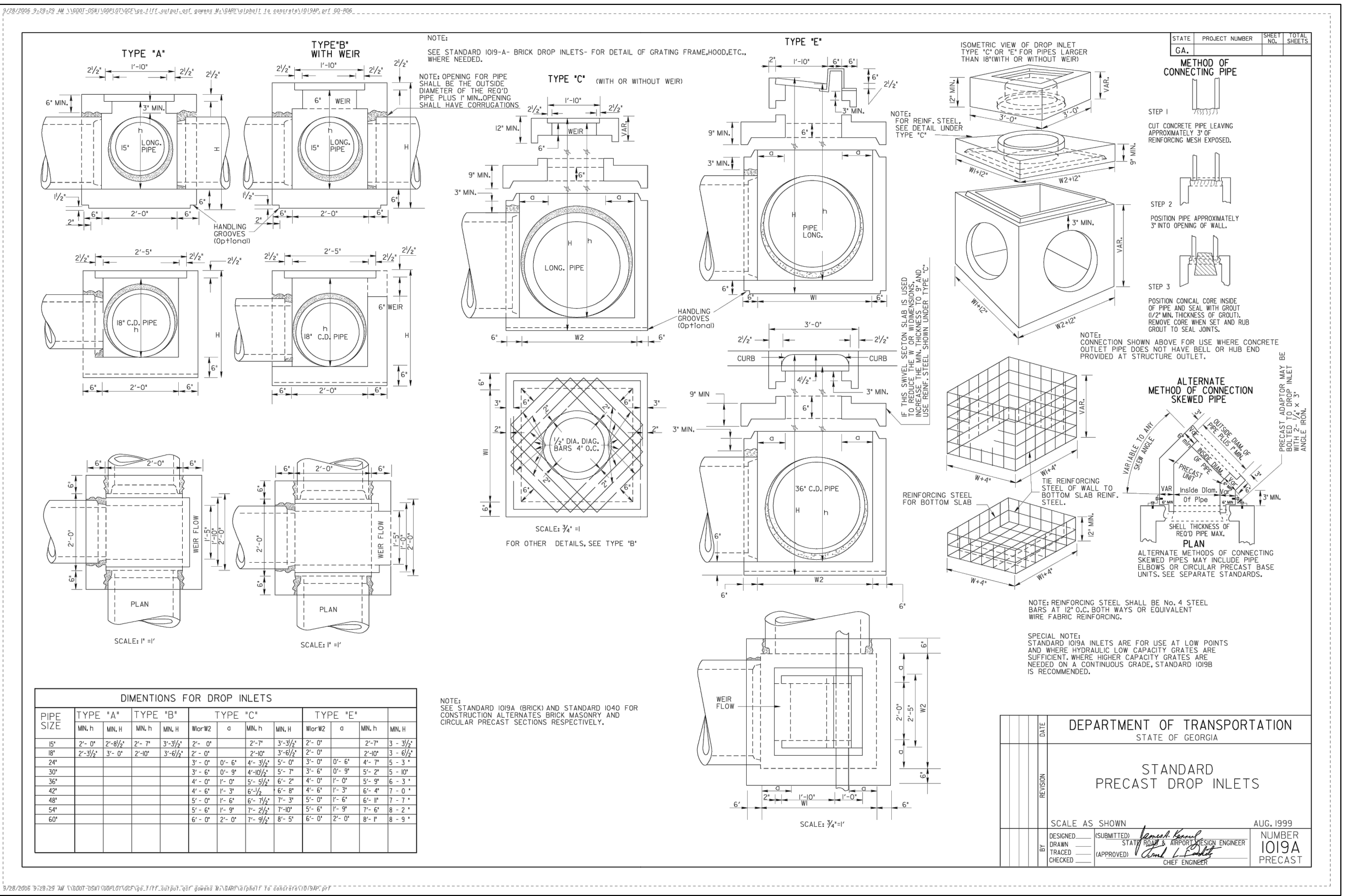
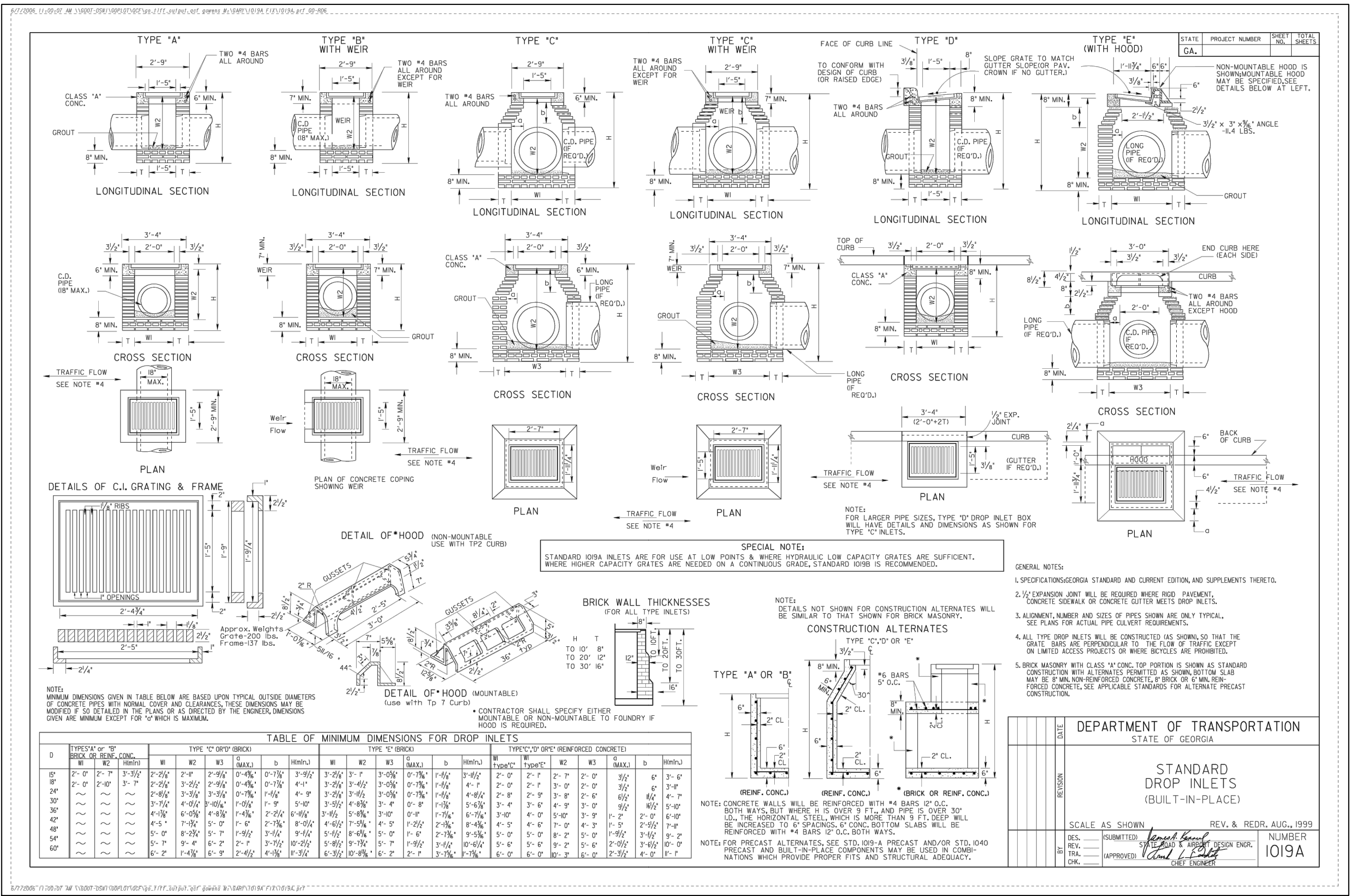
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FEMA NOTE
THIS PARCEL IS NOT LOCATED IN A FLOOD HAZARD AREA ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY NO. 13021C, PANEL NO. 0134G, DATED JUNE 7, 2017, ZONE "X."

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C3.01
PROJ. NO. 3618119



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 SAVED:11/17/2023
 PLOTTED:12/12/2023

BARGE
 DESIGN SOLUTIONS

REGISTERED PROFESSIONAL ENGINEER
 No. 44025
 JAMES BRIAN HART, JR.

CONSTRUCTION DETAILS
 POPLAR STREET LANE AND 3RD STREET
 STORMWATER IMPROVEMENTS
 MACON WATER AUTHORITY

REVISION INFORMATION

REV.	CHK.	DATE	DESCRIPTION
0	DJT	12/12/2023	ISSUED FOR BIDDING

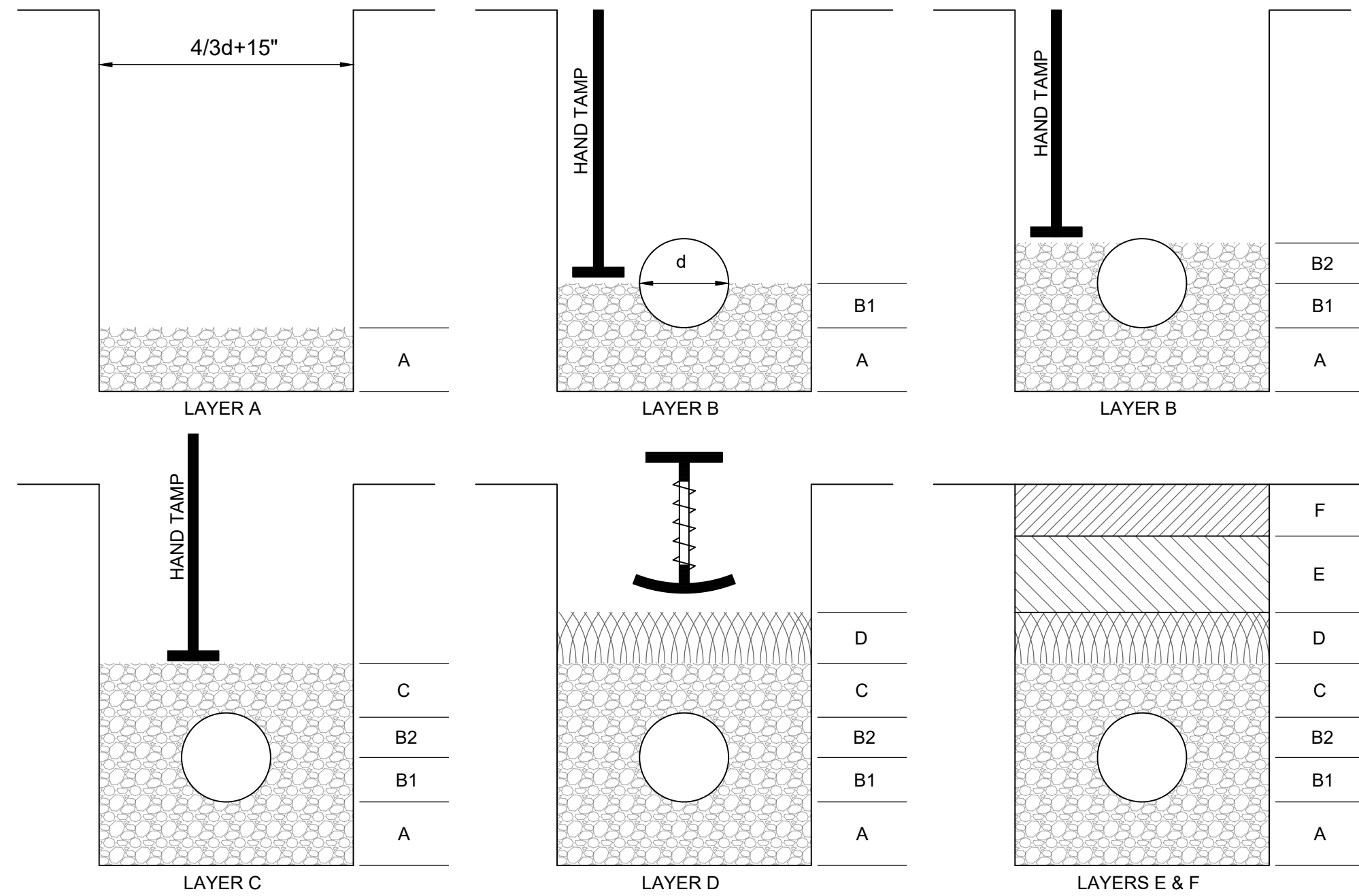
DEPARTMENT OF TRANSPORTATION
 STATE OF GEORGIA

STANDARD PRECAST REINFORCED CONCRETE MANHOLE

NO SCALE
 AUGUST 1979

NUMBER 1019A
 PRECAST

C5.01
 PROJ. NO. 3618119



BEDDING AND BACKFILL OF TRENCHES UNDER PAVED AREAS		
LAYER	DEPTH	MATERIAL
A	6" MIN IN EARTH 8" MIN IN ROCK	CLASS 1 FOR ALL RIGID PIPE WELL COMPACTED
B	VARIES	CLASS 1 FOR ALL RIGID PIPE TAMPED IN 6" MAXIMUM LAYERS. WELL COMPACTED W/SIDE TAMPER HAND TAMPER
C	6"	CLASS 1 FOR ALL RIGID PIPE WELL COMPACTED W/ HAND TAMPER
D	6"	CLASS 1 FOR ALL PIPE WELL COMPACTED W/PNEUMATIC OR MECHANICAL TAMPER
E	VARIES	MINERAL AGGREGATE BASE TYPE "A" GRADE "D" IN ACCORDANCE WITH GDOT SPECIFICATIONS OR CLASS 1 FOR ALL PIPE TAMPED IN 6" MAXIMUM LAYERS COMPACTED TO 95% PER ASTM D698
F	12"	CLASS 1 FOR ALL PIPE- EXCEPT USE CLASS A, GRADE D CRUSHED STONE ACROSS OR ALONG EXISTING PAVEMENT UNLESS OTHERWISE NOTED COMPACTED TO 95% PER ASTM D698

BEDDING AND BACKFILL OF TRENCHES UNDER UNIMPROVED AREAS		
LAYER	DEPTH	MATERIAL
A	6" MIN IN EARTH 8" MIN IN ROCK	CLASS 1-3 FOR ALL RIGID PIPE WELL COMPACTED
B	VARIES	CLASS 1-3 FOR ALL RIGID PIPE TAMPED IN 6" MAXIMUM LAYERS. WELL COMPACTED W/SIDE TAMPER HAND TAMPER
C	6"	CLASS 1-3 FOR ALL RIGID PIPE WELL COMPACTED W/ HAND TAMPER
D	6"	SELECTED BACKFILL MATERIAL - CLASS 1-3 FOR ALL PIPE. WELL COMPACTED W/PNEUMATIC OR MECHANICAL TAMPER
E	VARIES	CLASS 1-3 FOR ALL PIPE, 75% OF BACKFILL MATERIAL MAY CONTAIN BROKEN STONES NOT EXCEEDING 6" IN DIAMETER-TAMPED IN 12" MAXIMUM LAYERS. COMPACTED TO 95% PER ASTM D698
F	12"	CLASS 3 FOR ALL PIPE, FREE OF LARGE CLODS, VEGETABLE MATTER, DEBRIS STONE AND/OR ANY OTHER OBJECTIONABLE MATTER. UNLESS OTHERWISE NOTED COMPACTED TO 95% PER ASTM D698

*SEE SODDING AND SEEDING NOTES FOR UPPER 2-4" OF SOIL FOR TOPSOIL, MULCH, ETC.

BEDDING AND BACKFILL MATERIAL CLASSIFICATION

CLASS 1 MATERIALS: ANGULAR 1/4 TO 1 INCH GRADED STONE INCLUDING A NUMBER OF FILL MATERIALS THAT HAVE REGIONAL SIGNIFICANCE SUCH AS CRUSHED STONE, CINDERS, SLAG AND CRUSHED SHELLS.

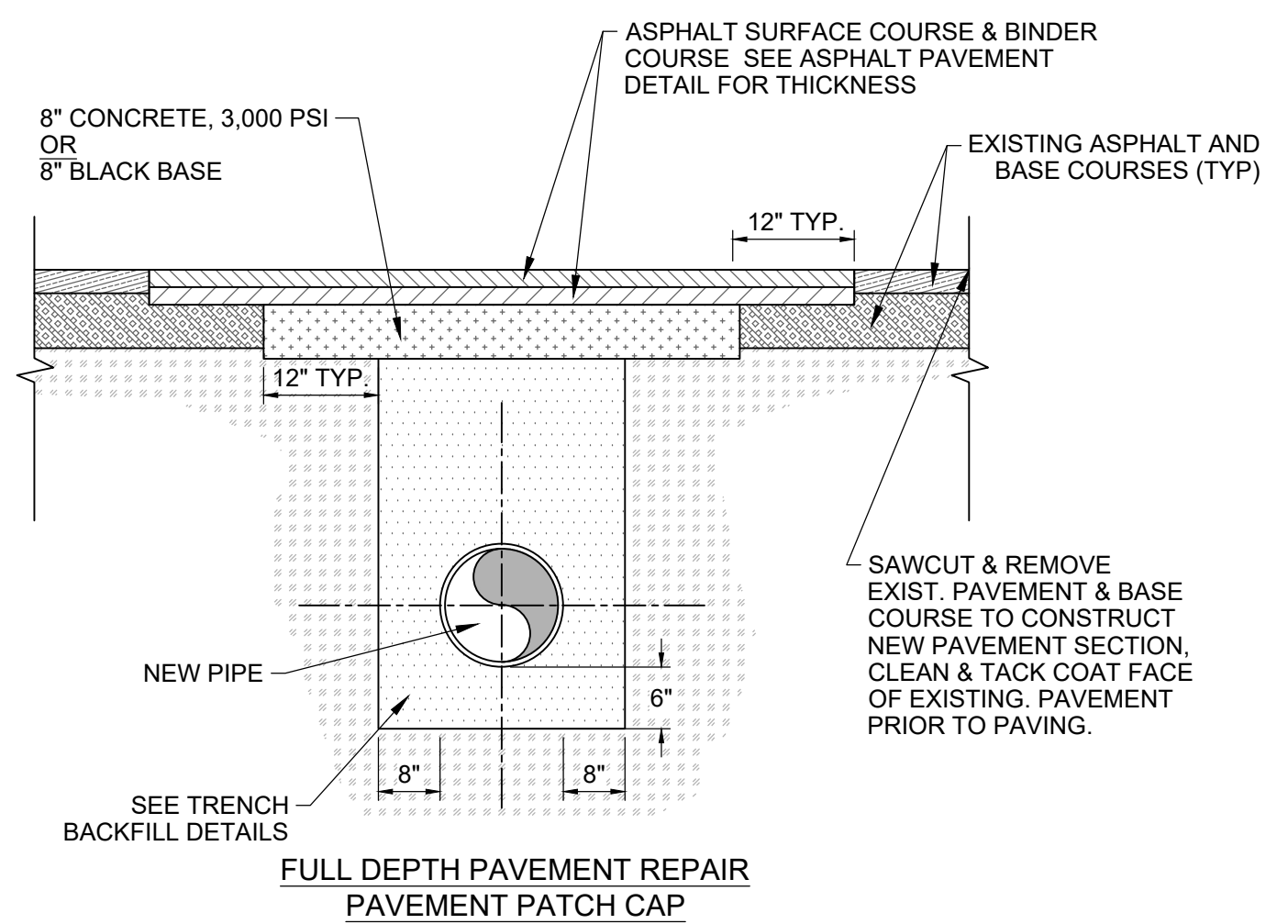
CLASS 2 MATERIALS: COARSE SANDS AND GRAVELS WITH A MAXIMUM PARTICLE DIMENSION OF 1 1/2 INCH INCLUDING VARIOUSLY GRADED SAND AND GRAVELS CONTAINING SMALL PERCENTAGES OF FINES, GENERALLY GRANULAR AND NON-COHESIVE, EITHER WET OR DRY.

CLASS 3 MATERIAL: FINE SAND AND CLAYEY GRAVELS, INCLUDING FINE SANDS, SAND-CLAY MIXTURES, AND GRAVEL-CLAY MIXTURES.

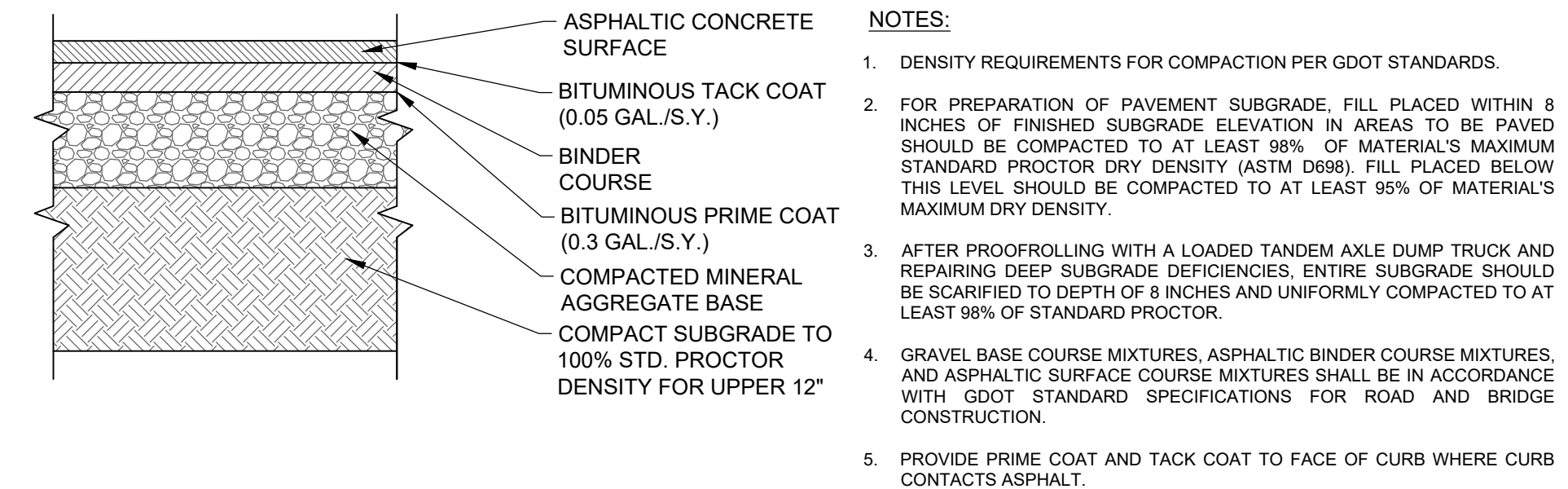
CLASS 4 MATERIAL: SILT, SILTY CLAYS AND CLAYS, INCLUDING INORGANIC CLAYS, AND SILTS OF MEDIUM TO HIGH PLASTICITY AND LIQUID LIMITS.

CLASS 5 MATERIAL: ORGANIC SOILS, AS WELL AS SOIL CONTAINING FROZEN EARTH, DEBRIS, ROCKS LARGER THAN 1 1/2 INCHES AND OTHER FOREIGN MATERIALS.

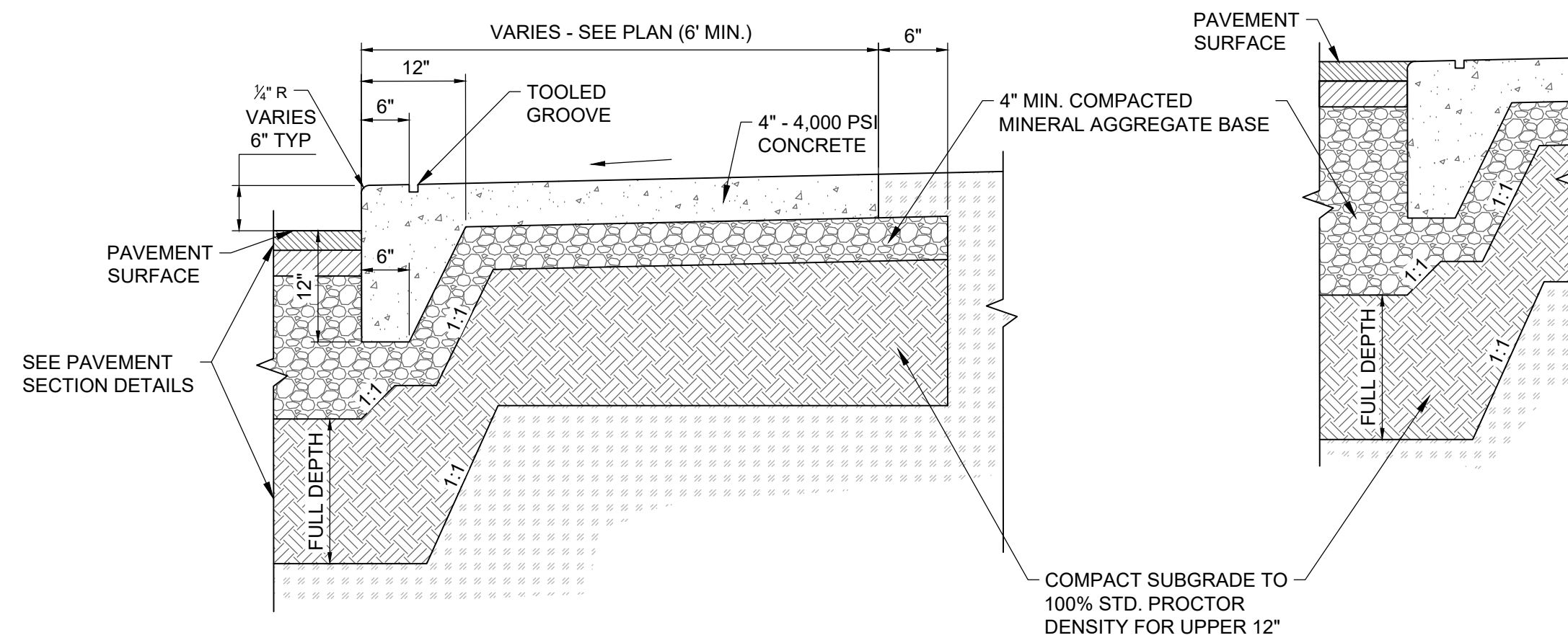
G-1 TRENCH BACKFILL DETAILS
SCALE: NTS



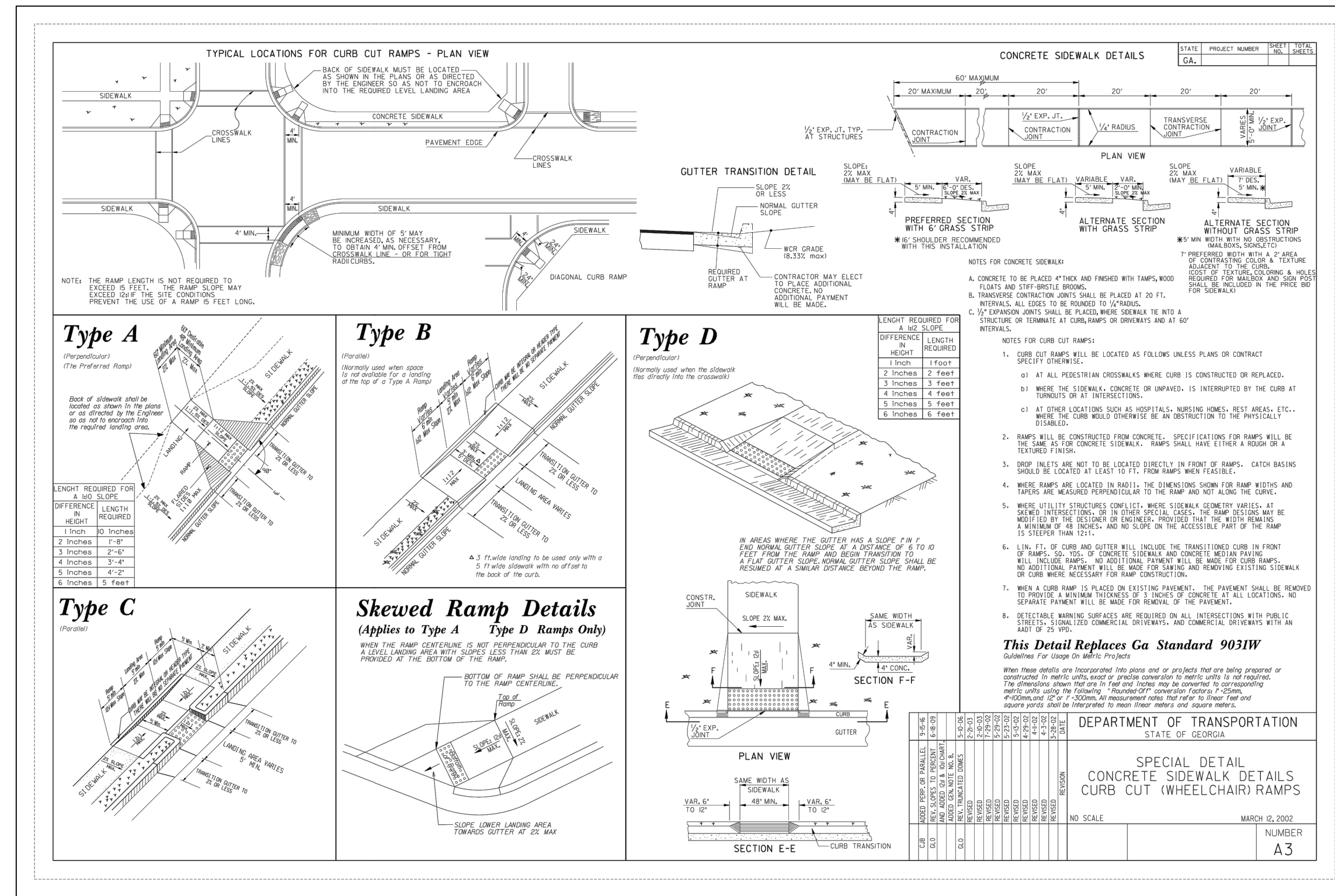
G-2 UTILITY CONSTRUCTION PAVEMENT REPAIR
SCALE: NTS



P-1 ASPHALT PAVEMENT
SCALE: NTS



S-1 6" INTEGRAL CURB AND SIDEWALK
SCALE: NTS



- NOTES:**
- DENSITY REQUIREMENTS FOR COMPACTION PER GDOT STANDARDS.
 - FOR PREPARATION OF PAVEMENT SUBGRADE, FILL PLACED WITHIN 8 INCHES OF FINISHED SUBGRADE ELEVATION IN AREAS TO BE PAVED SHOULD BE COMPACTED TO AT LEAST 98% OF MATERIAL'S MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D698). FILL PLACED BELOW THIS LEVEL SHOULD BE COMPACTED TO AT LEAST 95% OF MATERIAL'S MAXIMUM DRY DENSITY.
 - AFTER PROOFROLLING WITH A LOADED TANDEM AXLE DUMP TRUCK AND REPAIRING DEEP SUBGRADE DEFICIENCIES, ENTIRE SUBGRADE SHOULD BE SCARIFIED TO DEPTH OF 8 INCHES AND UNIFORMLY COMPACTED TO AT LEAST 98% OF STANDARD PROCTOR.
 - GRAVEL BASE COURSE MIXTURES, ASPHALTIC BINDER COURSE MIXTURES, AND ASPHALTIC SURFACE COURSE MIXTURES SHALL BE IN ACCORDANCE WITH GDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 - PROVIDE PRIME COAT AND TACK COAT TO FACE OF CURB WHERE CURB CONTACTS ASPHALT.

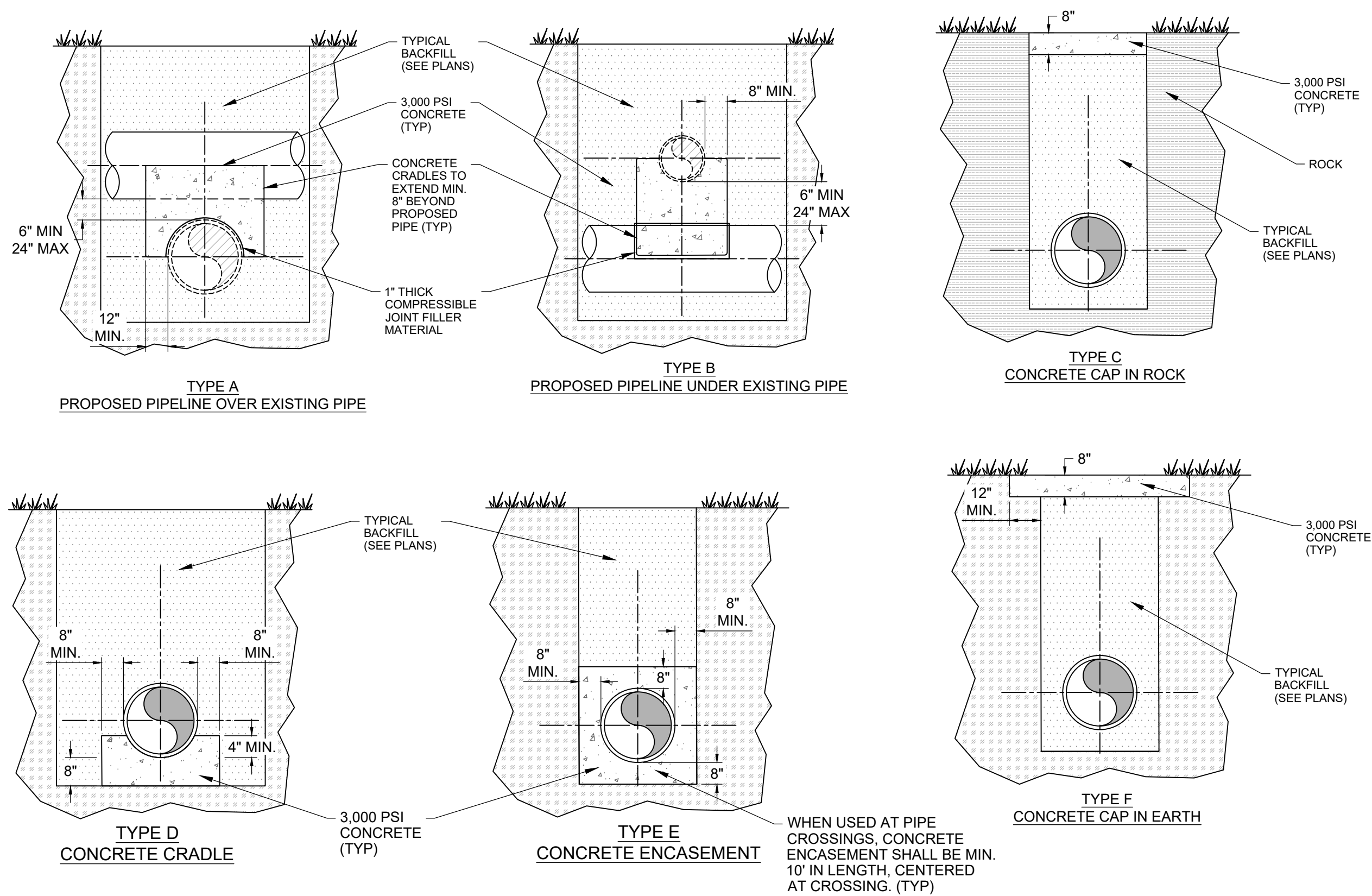
- NOTES:**
- PREFORMED 1/2" EXPANSION JOINTS SHALL BE EQUALLY SPACED AT 25' CENTERS.
 - 1/4" CONTRACTION JOINTS SHALL BE EQUALLY SPACED AT 5' CENTERS BETWEEN EXPANSION JOINTS.
 - SEE PLAN FOR CURB REVEAL HEIGHT.

REV.	CHK.	DATE	DESCRIPTION
0	BH	12/12/2023	ISSUED FOR BIDDING



CONSTRUCTION DETAILS

POPLAR STREET LANE AND 3RD STREET
STORMWATER IMPROVEMENTS
 MACON WATER AUTHORITY

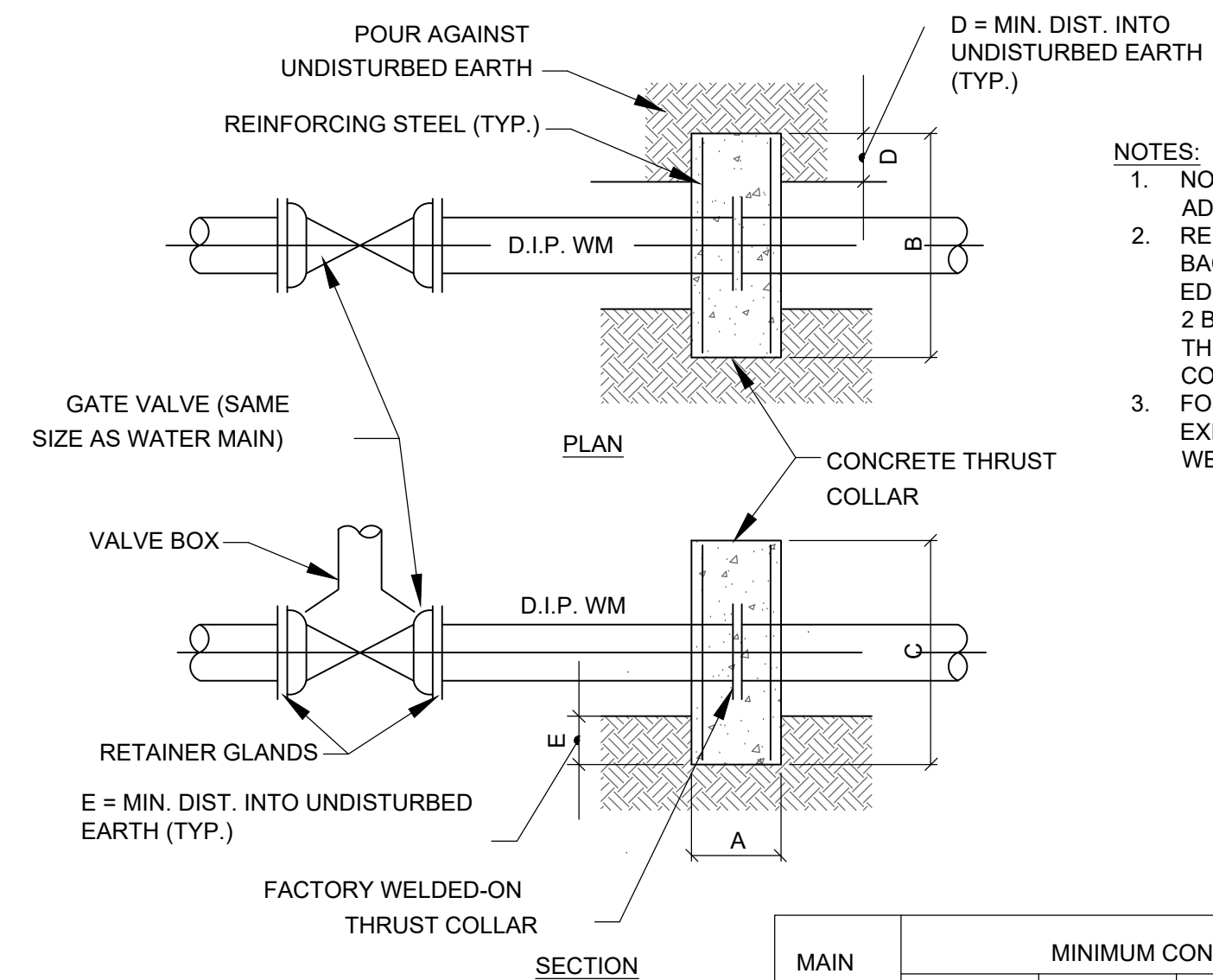
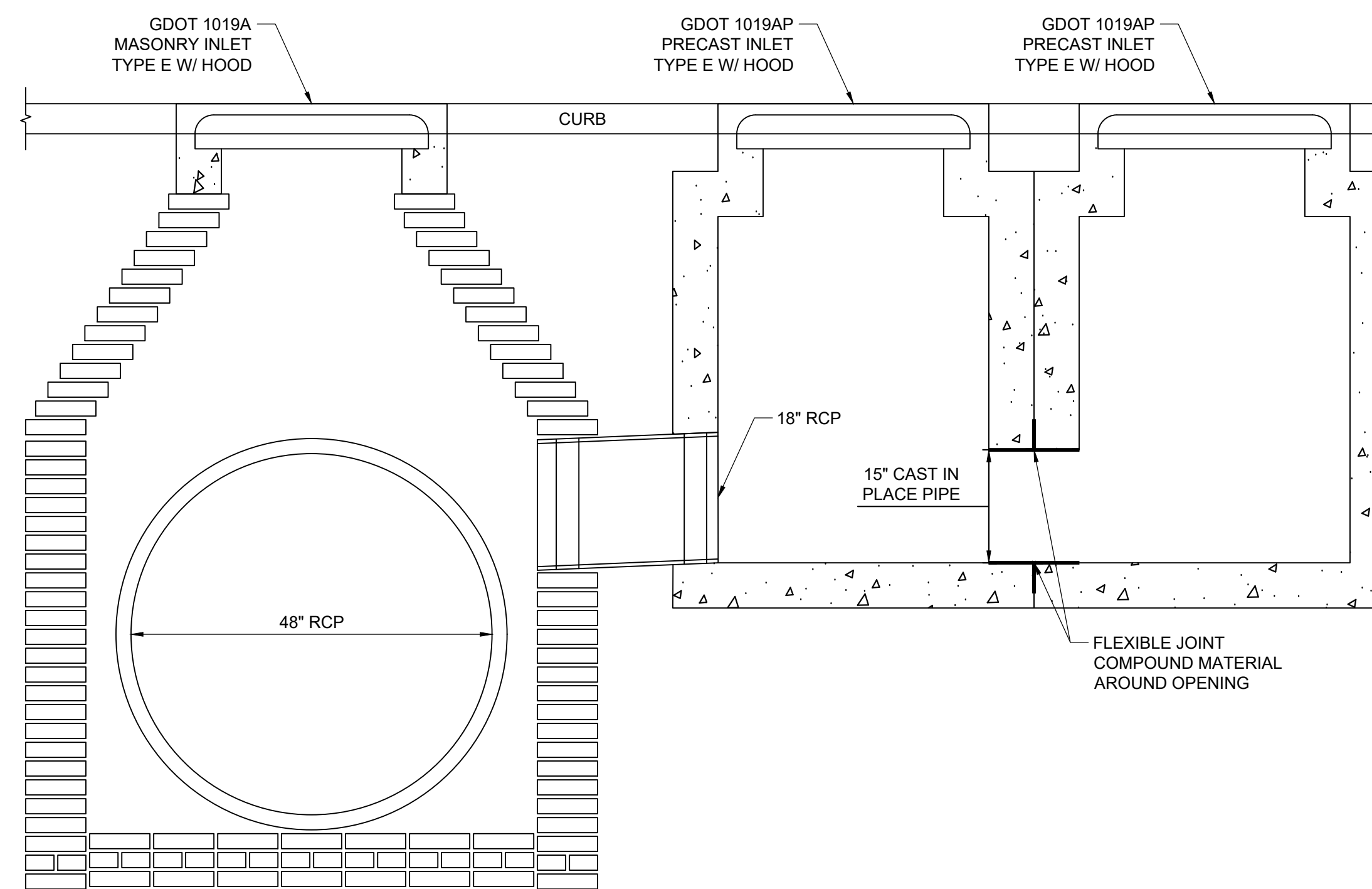


NOTES:

1. CONCRETE TO BE POURED 16 HOURS BEFORE BACKFILL IS PLACED AND IN SUCH A MANNER AS TO PREVENT THE PIPE FROM FLOATING.
2. SEE PLANS FOR SPECIFIED BACKFILL AND DETAILS.
3. PROPOSED PIPE(S) TO BE LAID BEFORE CONCRETE HARDENS.
4. NO CONCRETE ENCASEMENT REQUIRED FOR VERTICAL SEPARATION GREATER THAN 18" AS MEASURED FROM OUTSIDE OF INTERSECTING PIPES.
5. AT MINIMUM, CONCRETE CRADLES SHALL PROVIDE 8" OF COVER FROM OUTSIDE PIPE WALLS.
6. IF SPECIFIED IN PLANS, CONCRETE CAPS MAY BE BURIED BELOW THE SURFACE. IF BURIED, THE TOP OF CAP CAN BE NO CLOSER THAN 6" FROM FINISHED GRADE.

G-3 UTILITY PROTECTION
SCALE: NTS

ST-1 CURB INLET CONFIGURATION
SCALE: NTS

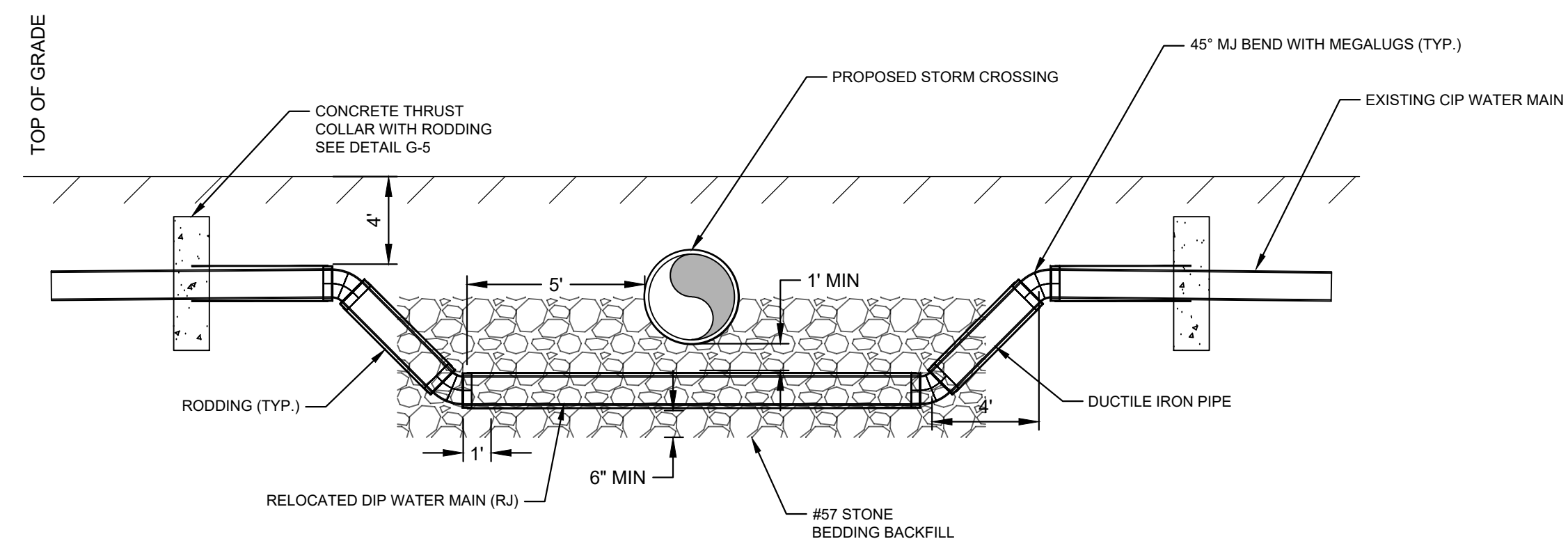


NOTES:

1. NO INTERMEDIATE JOINTS BETWEEN THRUST COLLAR AND ADJACENT DOWNSTREAM VALVE OR FITTING.
2. REINFORCEMENT SHALL HAVE 2" COVER AT THE FRONT AND BACK FACES AND 3" COVER AT LEFT, RIGHT AND BOTTOM EDGES. ADDITIONAL REINFORCING AT EACH FACE CONSISTING IN 2 BARS HORIZONTAL AND 2 BARS VERTICAL TO BE PLACED AT THE TOP, BOTTOM, LEFT AND RIGHT OF PIPE OPENING WITH 2" COVER AND 3" SPACING.
3. FOR CONCRETE THRUST COLLARS TO BE INSTALLED ON EXISTING PIPES, TWO RETAINER GLANDS IN LIEU OF A FACTORY WELDED ON THRUST COLLAR SHALL BE USED.

MAIN DIA	MINIMUM CONCRETE COLLAR DIM.					STEEL REINFORCING
	A	B	C	D	E	
8"	1'-0"	5'-4"	4'-1"	1'-2"	1'-6"	#6 @ 12" O.C. E.W.E.F.
12"	1'-2"	6'-6"	6'-0"	1'-9"	2'-7"	#7 @ 12" O.C. E.W.E.F.
16"	1'-3"	9'-6"	6'-8"	2'-9"	3'-0"	#8 @ 12" O.C. E.W.E.F.

SOIL BEARING RESISTANCE: 2000 P.S.F.

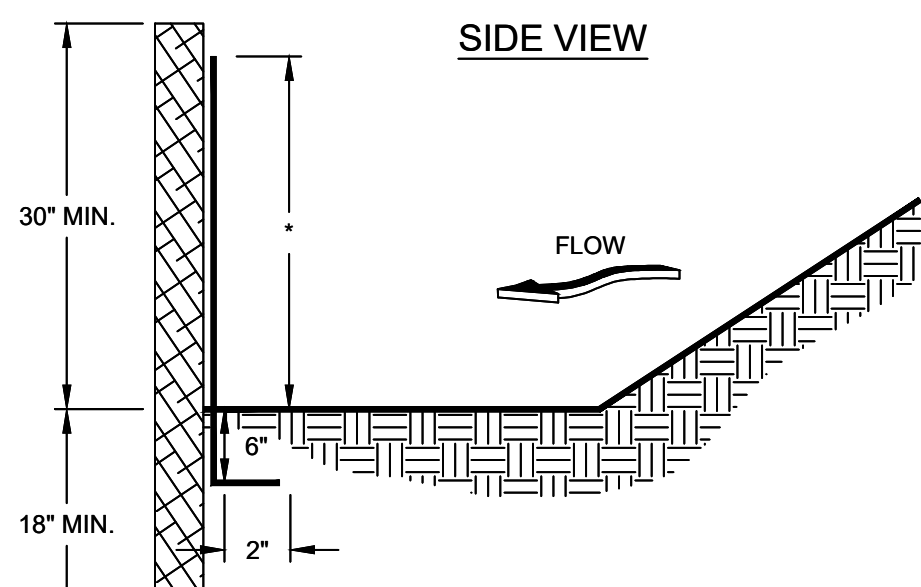


G-4 UTILITY RELOCATION
SCALE: NTS

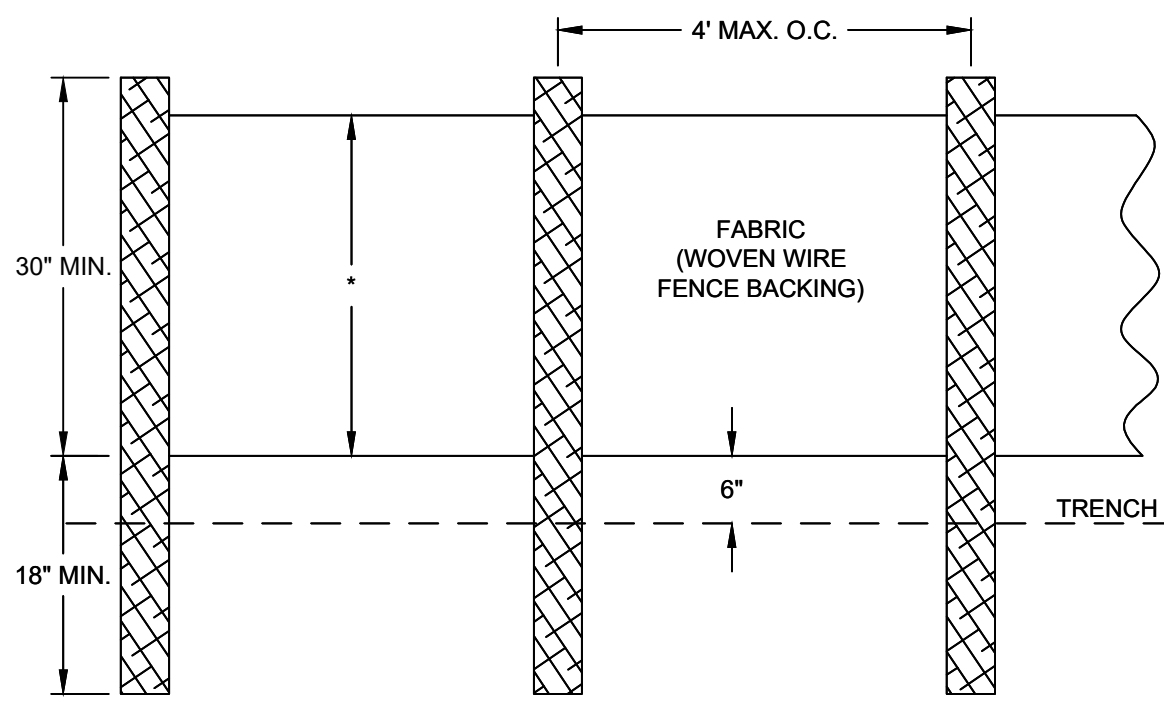
G-5 THRUST COLLAR DETAIL
SCALE: NTS

REV.	DR.	CHK.	DATE	DESCRIPTION
0			12/12/2023	ISSUED FOR BIDDING

SILT FENCE - TYPE SENSITIVE

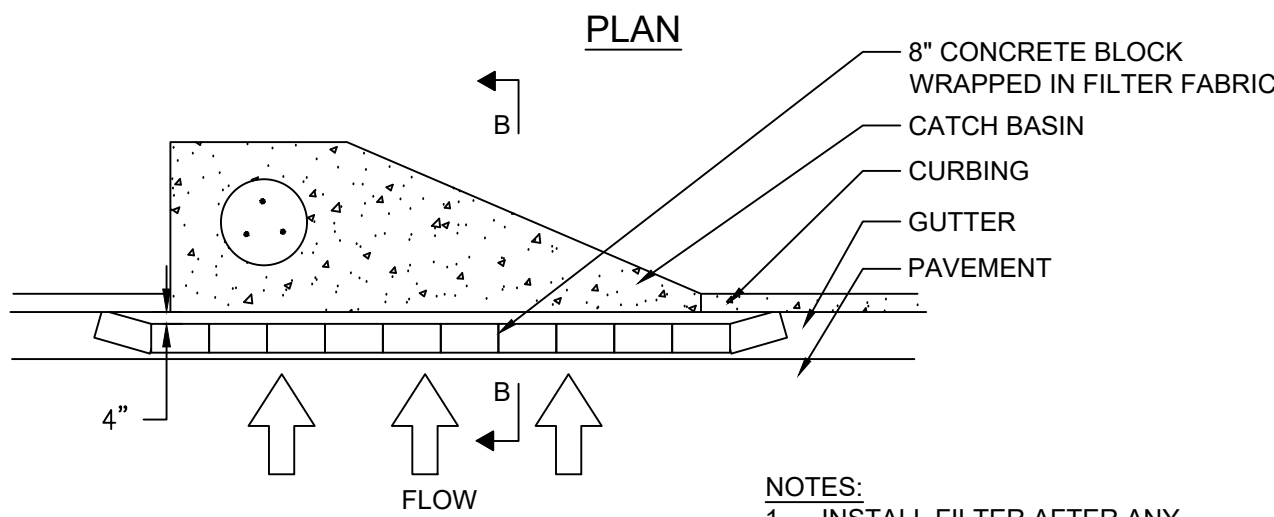


FRONT VIEW

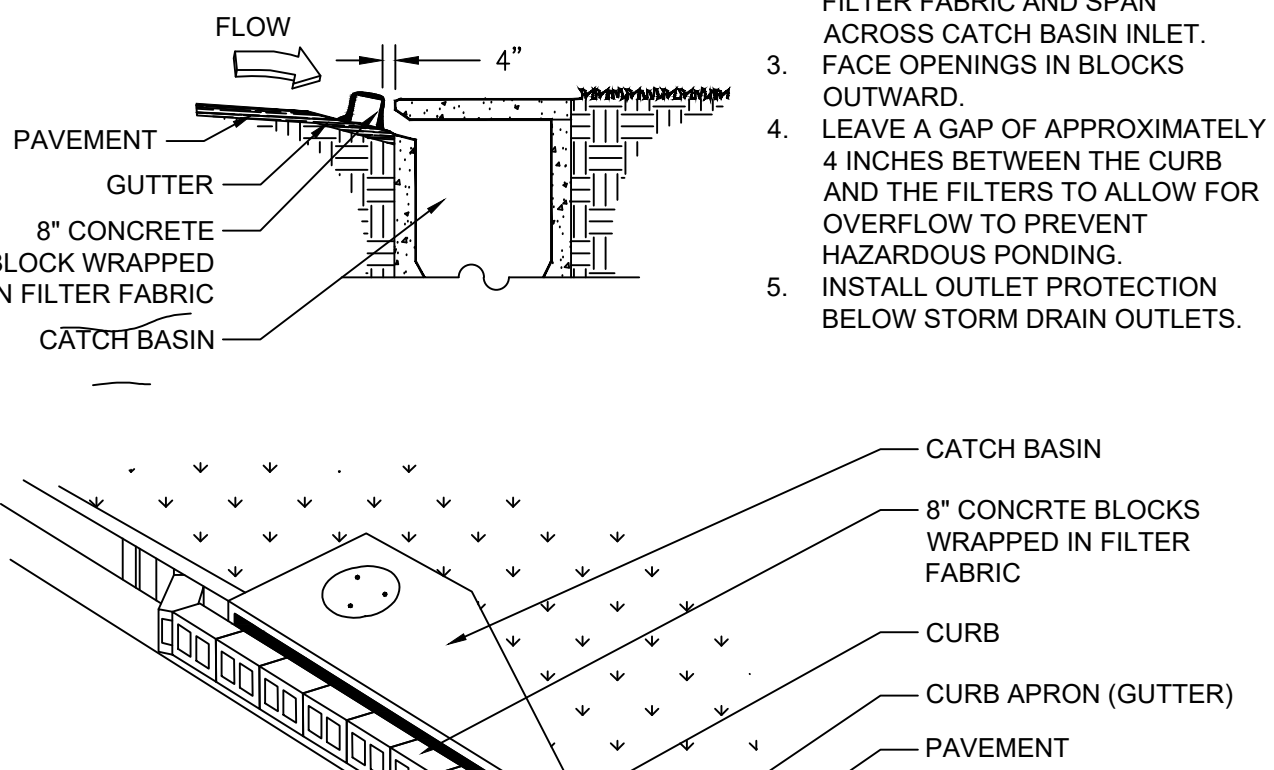


- NOTES:**
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
 2. HEIGHT (") IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
 3. " = 24"

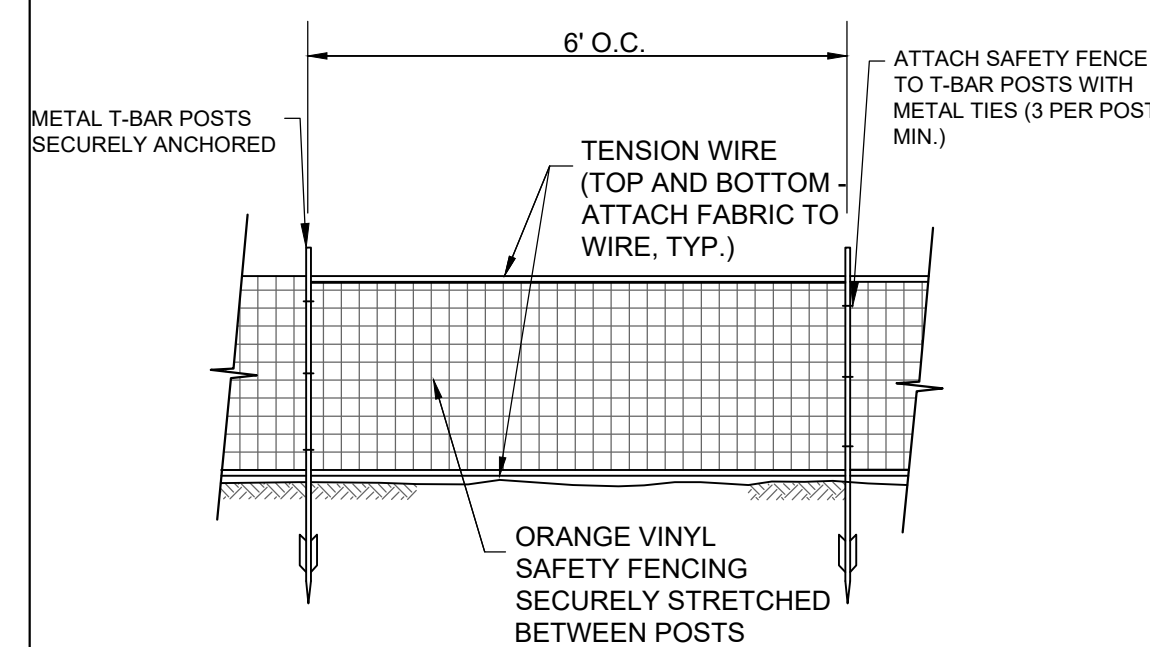
Sd2-P INLET PROTECTION PAVED AREAS



SECTION B-B



- NOTES:**
1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
 2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET. FACE OPENINGS IN BLOCKS OUTWARD.
 3. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
 4. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.



OBF ORANGE BARRIER FENCING
SCALE: NTS

GEORGIA UNIFORM CODING SYSTEM FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECK DAM			A small temporary barrier or dam constructed across a slope, designed to prevent soil erosion by reducing the velocity of runoff.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel bed, bank or structure.
Cs	CONSTRUCTION EROSION CONTROL			A finished slope protected at the construction site to prevent erosion by covering the slope with temporary protective soil stabilizing materials.
Ct	CONSTRUCTION ROAD STABILIZATION			A temporary structure to stabilize a road during construction.
Dc	DIVERSION CHANNEL STRUCTURE			A temporary channel structure to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dm	TEMPORARY DIVERSION STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is a temporary and inexpensive structure.
Dn	NONPERMANENT DIVERSION STRUCTURE			A small stone, pipe, structural conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER FABRIC			A temporary slope barrier constructed at storm drain inlets and outlet structures.
Ga	GABION			Rock filled baskets which are lined and placed into position forming soil stabilizing structures.
Gr	GRASS STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where erosion by the establishment of vegetation surrounding an area of disturbance or existing structures.
Lv	LEVEL SPREADER			A structure to control concentrated flow of water into a smaller stream flow. This should be constructed only on undisturbed soil.
Rd	ROADWAY DIVERSION			A permanent or temporary stone flow dam installed across small stream or drainage ways.
Rh	RETAINING WALL			A wall installed to stabilize soil on the slope where erosion prevention is not feasible. Each situation will require special design.
Ri	RETRO FITTING			A device or structure placed in front of a permanent structure to divert runoff from the permanent structure to a temporary structure.
Sd	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a rock trench.
Sd1	SEDIMENT BARRIER			When the barrier is installed to intercept runoff from steep slopes, it should be designed to prevent runoff from causing erosion or disturbance.
Sd2	SEDIMENT BARRIER			A bank created by construction or an access roadway. The surface water runoff is temporarily held along the bank of the sediment to stop out.
Sd3	SEDIMENT BARRIER			A small temporary pond that allows a disturbed area to settle out. The principle feature of this structure is a temporary sediment basin that is built at a controlled rate.
Sd4	SEDIMENT BARRIER			A trapped device that retards surface water from the number of sediment particles, traps, or bales at a controlled rate of flow.
Sd5	SEDIMENT BARRIER			A device used to control sediment at a diversion structure. It is designed to catch sediment, disperse and infiltrate, while creating multiple sedimentation chambers with the employment of permeable sides.
Sd6	SEDIMENT BARRIER			A device used to control sediment at a diversion structure. It is designed to catch sediment, disperse and infiltrate, while creating multiple sedimentation chambers with the employment of permeable sides.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY SLOPE PROTECTION			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by construction equipment.
Ss	STORMWATER COLLECTION			A porous or short section of pipe, placed at the outlet of a storm drain system preventing runoff from the construction site.
Su	SMOOTH ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A flexible or rigid barrier installed within the water body to prevent sediment from entering the water body. It may also be referred to as a floating boom, sill barrier, or silt curtain.
Tp	TOPSOILING			The practice of stripping off the new topsoil, using it for grading, or over the disturbed area after completion of construction activities.
Tr	TRIP PROTECTION			To protect materials from being damaged during construction activity.
Wc	VEGETATED TEMPORARY DIVERSION CHANNEL			Perennial or vegetative water control for diversions, terraces, bents, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BALD PINE			Strip of undisturbed original vegetation, enhanced or improved existing vegetation or the establishment of vegetation surrounding an area of disturbance or existing structures.
Ca	CALICOFLOR			Planting vegetation on areas that are denuded, erodible, cultivated, or re-forested.
Da	DISTURBED AREA REVEGETATION			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion resisting cover.
De	DISTURBED AREA REVEGETATION			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
De3	DISTURBED AREA REVEGETATION			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
De4	DISTURBED AREA REVEGETATION			A permanent vegetative cover using sods or highly erodible or critically eroded soils.
Du	DISTURBED AREA REVEGETATION			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fc	FESTUCA			Substance formulated to control soil erosion and sedimentation of suspended particles in solution.
Sa	SLOPE STABILIZATION			The use of readily available native plant materials to stabilize and enhance embankments, or to prevent, or reduce and repair small embankment erosion problems.
Sb	SLOPE STABILIZATION			A protective covering used to prevent erosion and stabilize temporary or permanent vegetation on steep slopes, short fills, or channels.
Ss	SLOPE STABILIZATION			Substance used to anchor straw or hay mats by causing the organic material to bind together.
Tc	TURBIDITY CURTAIN			The practice of stripping off the new topsoil, using it for grading, or over the disturbed area after completion of construction activities.

6/16/2007 (Revised: 2012)

MULCHING APPLICATION REQUIREMENTS [CHECKLIST #51, #52]

MATERIAL	RATE	DEPTH
STRAW OR HAY	2-1/2 TON/ACRE	6" TO 10"
GEOTEXTILES, JUTE MATTING, NETTING, ETC.	SEE MANUFACTURER'S RECOMMENDATIONS	----

Ds1 DISTURBED AREA STABILIZATION (WITH MULCH ONLY)

TABLE 2 SOME TEMPORARY PLANT SPECIES, SEEDING RATES AND PLANTING DATES

SLOPE	SEEDBED DEPTH	RATES PER ACRE		PLANTING DATES BY REGION				
		M-L	P	1	2	3	4	
3:1 OR FLATTER	1" TO 4" DEPTH	RYE (GRAIN)	3.9 LBS.	3 BU	8/15-11/19	9/15-12/1	10/1-11/1	
		RYEGRASS	0.9 LB.	40 LBS.	8/15-11/15	9/15-12/1	10/1-11/1	
2:1 OR STEEPER	1" TO 4" DEPTH	RYE AND ANNUAL LESPEDEZA	0.6 LB.	0.5 BU	3/1-4/1	3/1-4/1	2/1-3/1	
		WEEDING GRASSES	0.1 LB.	4 LBS.	4/1-6/1	4/1-6/1	3/1-6/1	
2:1 OR STEEPER	DEPRESSIONS EVERY 6" TO 8" HAND-DUG, IF NECESSARY	WEEDING GRASSES	1.0 LB.	6 LBS.	5/1-8/1	5/1-8/1	4/1-8/1	
		BROWN TOP MILLET	1.1 LBS.	50 LBS.	4/15-6/15	4/15-7/1	4/15-7/1	
RE-SEED AREAS WHERE AN ADEQUATE STAND OF TEMPORARY VEGETATION FAILS TO EMERGE OR WHERE A POOR STAND EXISTS.		WHEAT	4.1 LBS.	3 BU	9/15-12/1	10/1-12/15	10/15-1/1	

1. UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES.
2. SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.

TABLE 3 FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

TYPE OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS./ACRE)	N TOP DRESSING RATE (LBS./ACRE)
COOL SEASON GRASSES	FIRST MAINTENANCE	6-12-12	1500	50-100
	SECOND MAINTENANCE	10-10-10	400	30
COOL SEASON GRASSES AND LEGUMES	FIRST MAINTENANCE	6-12-12	1500	0-30
	SECOND MAINTENANCE	0-10-10	1000	---
TEMPORARY COVER CROPS SEEDS ALONE	FIRST MAINTENANCE	10-10-10	500	30
WARM SEASON GRASSES	FIRST MAINTENANCE	6-12-12	1500	50-100
	SECOND MAINTENANCE	6-12-12	800	50-100
		10-10-10	400	30

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

TABLE 1 SOME PERMANENT PLANT SPECIES, SEEDING RATES, AND PLANTING DATES [CHECKLIST #51, #52]

SPECIES	RATES PER ACRE	PLANTING YEAR	PLANTING DATES BY REGION			REMARKS
			M-L	P	C	
BAHIA PENINSACOLA ALONE OR WITH TEMPORARY COVER WITH OTHER PERENNIALS	60 LBS. 30 LBS.		4/1-5/31	3/1-5/31		LOW GROWING SOD PRODUING; WILL SPREAD INTO BERMUDA LAWNS.
BAHIA WILMINGTON ALONE OR WITH TEMPORARY COVER WITH OTHER PERENNIALS	60 LBS. 30 LBS.		3/1-5/31	3/1-5/31		SAME AS ABOVE.
BERMUDA COMMON (MULLED SEED) ALONE WITH TEMPORARY COVER WITH OTHER PERENNIALS	10 LBS. 6 LBS.		4/1-5/31	3/1-5/31		QUICK COVER, LOW GROWING, SOD FORMING; NEEDS FULL SUN.
BERMUDA COMMON (UNMULLED SEED) ALONE WITH TEMPORARY COVER WITH OTHER PERENNIALS	10 LBS. 6 LBS.		10/15-2/28	11/1-1/31		PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.
BERMUDA SPERM (MULLED SEED) ALONE WITH TEMPORARY COVER WITH OTHER PERENNIALS	40 CU. FT. 500 PLYS 3'x3'		4/1-6/15	4/1-6/15	4/1-5/31	1 CU. FT. = 600 SPRINGS; 1 BU. = 1.25 CU. FT. OR 800 SPRINGS.
CROWN VETCH WITH WINTER ANNUALS OR COOL SEASON GRASSES	15 LBS.	0.3 LB.	9/1-10/15	9/1-10/15	-	MIX WITH 30 LBS. TALL FESCUE OR 15 LBS. RYE; INOCULATE SEED; PLANT ONLY NORTH OF ATLANTA.
FESCUE, TALL ALONE WITH OTHER PERENNIALS	50 LBS. 30 LBS.	1.1 LB. 0.7 LB.	3/1-4/1	8/15-10/15	-	MIX WITH PERENNIAL LESPEDEZA OR CROWN VETCH; NOT FOR DROUGHTY SOILS OR HEAVY USE AREAS.
LESPEDEZA, SERICEA SCARIFIED	60 LBS.	1.4 LBS.	4/1-5/31	3/1-5/31	3/1-5/15	WIDELY ADAPTED AND LOW MAINTENANCE; TAKES 2-3 YEARS TO ESTABLISH; SEED WITH EL INOCULANT; MIX WITH WEEDING LOWGRASS, COMMON BERMUDA, BAHIA OR TALL FESCUE.
UNSCARIFIED	75 LBS.	1.7 LBS.	9/1-2/28	9/1-2/28	9/1-2/28	MIX WITH TALL FESCUE OR WINTER ANNUALS. CUT WHEN SEED IS MATURE BUT BEFORE IT SHATTERS. ADD TALL FESCUE OR WINTER ANNUALS.
SEED-BEARING HAY	3 TONS.	138 LBS.	10/1-2/1	10/1-2/28	9/15-1/15	
LESPEDEZA AMBRO VIRGATA OR APPALW SCARIFIED	60 LBS. 75 LBS.	1.4 LB. 1.7 LB.	4/1-5/31	3/1-5/31	3/1-5/15	SPREADING GROWTH WITH HEIGHT OF 18" x 24" GOOD IN URBAN AREAS. SLOW TO DEVELOP GOOD STANDS; MIX WITH WEEDING LOWGRASS, COMMON BERMUDA, BAHIA TALL FESCUE OR WINTER ANNUALS. DO NOT MIX WITH SERICEA LESPEDEZA; INOCULATE SEED WITH EL INOCULANT.
LESPEDEZA, SHRUB (LESPEDEZA BICOLOR OR LESPEDEZA TRIMBERGII) PLANTS	3'x3' SPACING		11/1-3/31	11/1-3/15	11/15-2/28	PLANT IN SMALL CLUMPS FOR MULCHES FOOD AND COVER.
LOWGRASS, WEEPING ALONE WITH OTHER PERENNIALS	4 LBS. 2 LBS.	0.1 LB. 0.05 LB.	4/1-5/31	3/1-5/31	3/1-5/31	QUICK COVER, DROUGHT TOLERANT; GROWS WELL WITH SERICEA LESPEDEZA ON ROAD-BANKS AND OTHER STEEP SLOPES; SHORT LIVED.
MAIDENCANE SPRINGS	2'x3' SPACING		2/1-3/31	2/1-3/31	2/1-3/31	FOR VERY WET SITES SUCH AS RIVERSIDES AND SHORELINES; DIG SPRIGS LOCALLY.
PANICGRASS, ATLANTIC COASTAL	20 LBS.	0.5 LB.	-	3/1-4/30	3/1-4/30	GROWS WELL ON COASTAL SAND DUNES; MIX WITH SERICEA LESPEDEZA BUT NOT ON SAND DUNES.
RED CANARY GRASS ALONE WITH OTHER PERENNIALS	50 LBS. 30 LBS.	1.1 LB. 0.7 LB.	8/15-10/15	9/1-10/15	-	GROW SIMILAR TO TALL FESCUE; FOR WET SITES.
SUNFLOWER, AZTEC MAXIMILIAN	10 LBS.	0.2 LB.	4/1-5/31	4/1-5/31	4/1-5/31	MIX WITH WEEDING LOW-GRASS OR OTHER LOW GROWING GRASSES OR LEGUMES.
SWITCHGRASS	20 LBS.	0.4 LB.	4/1-5/31	4/1-5/31	4/1-5/31	FOR STREAMBANK PLANTINGS; DRAINAGE DITCHES, AND WET AREAS.

TABLE 2 SUGGESTED SEEDBED DEPTHS

SLOPE	SEEDBED DEPTH
3:1 OR FLATTER	1" TO 4" DEPTH
2:1 TO 3:1	4" DEPTH
2:1 OR STEEPER	DEPRESSIONS EVERY 6" TO 8" HAND-DUG, IF NECESSARY

LIME

- 1. AGRICULTURAL LIME IS REQUIRED AT THE RATE OF 2 TONS PER ACRE.
- 2. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.

- 3. LIME SPREAD BY CONVENTIONAL EQUIPMENT SHALL BE "FINE GROUND LIME" OR "FINE GROUND LIME" IS CALCIUM OR DOLICOM LIME. GROUND SO THAT 90% OF THE MATERIAL WILL PASS THROUGH A 10-MESH SIEVE AND NOT LESS THAN 70% WILL PASS THROUGH A 20-MESH SIEVE AND NOT LESS THAN 20% WILL PASS THROUGH A 100-MESH SIEVE.

- 4. AGRICULTURAL LIME SPREAD BY HYDRAULIC SEEDING EQUIPMENT SHALL BE "FINE GROUND LIME" OR "FINE GROUND LIME" IS CALCIUM OR DOLICOM LIME. GROUND SO THAT 90% OF THE MATERIAL WILL PASS THROUGH A 20-MESH SIEVE AND NOT LESS THAN 70% WILL PASS THROUGH A 100-MESH SIEVE.

TABLE 3 FERTILIZER REQUIREMENTS FOR PERMANENT VEGETATION

TYPE OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS./ACRE)	N TOP DRESSING RATE (LBS./ACRE)
COOL SEASON GRASSES	FIRST MAINTENANCE	6-12-12	1500	50-100
	SECOND MAINTENANCE	10-10-10	400	30
COOL SEASON GRASSES AND LEGUMES	FIRST MAINTENANCE	6-12-12	1500	0-30
	SECOND MAINTENANCE	0-10-10	1000	---
WARM SEASON GRASSES	FIRST MAINTENANCE	6-12-12	1500	50-100
	SECOND MAINTENANCE	10-10-10	400	30
WARM SEASON GRASSES AND LEGUMES	FIRST MAINTENANCE	6-12-12	1500	50-100
	SECOND MAINTENANCE	0-10-10	1000	---

1. RATES ARE FOR BROADCAST SEED. IF A SEED DRILL IS USED, REDUCE THE RATES BY ONE-HALF.
2. PLS IS AN ABBREVIATION OF PURE LIME SEED.
3. CONTRACTOR SHALL USE COASTAL REGION FOR DETERMINATION OF SEED TYPES AND PLANTING DATES.

Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

BARGE DESIGN SOLUTIONS



CONSTRUCTION DETAILS

POPULAR STREET LANE AND 3RD STREET

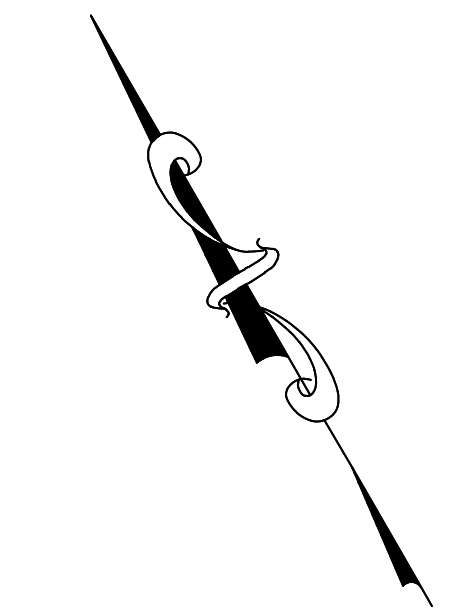
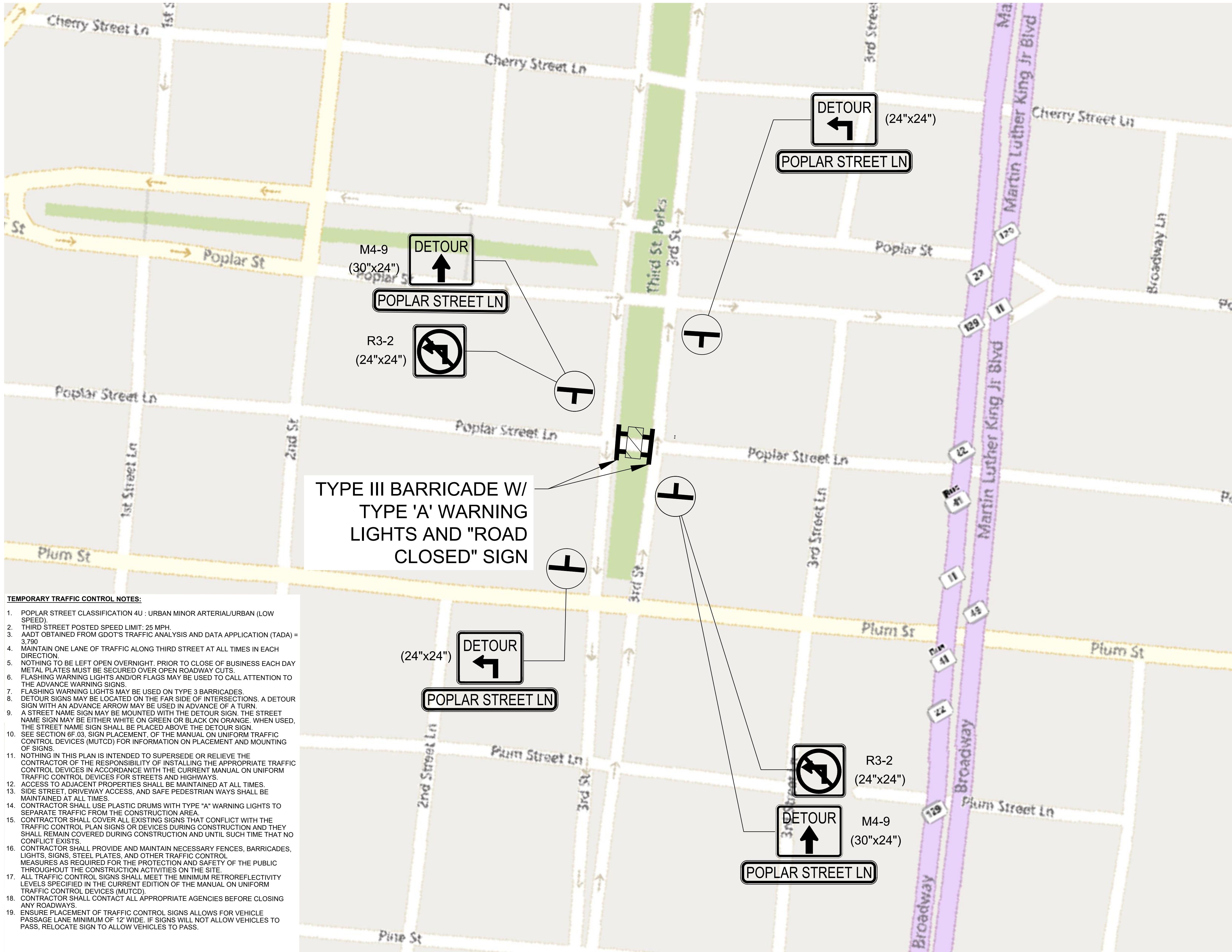
STORMWATER IMPROVEMENTS

MACON WATER AUTHORITY

REV.	CHK.	DATE	DESCRIPTION
0	BH	12/12/2023	ISSUED FOR BIDDING

C5.04

PROJ. NO. 3618119



LEGEND:

- WORK SPACE
- SIGN
- BARRICADE

**TYPE III BARRICADE W/
TYPE 'A' WARNING
LIGHTS AND "ROAD
CLOSED" SIGN**

TEMPORARY TRAFFIC CONTROL NOTES:

1. POPLAR STREET CLASSIFICATION 4U : URBAN MINOR ARTERIAL/URBAN (LOW SPEED)
2. THIRD STREET POSTED SPEED LIMIT: 25 MPH.
3. AADT OBTAINED FROM GDOT'S TRAFFIC ANALYSIS AND DATA APPLICATION (TADA) = 3,790
4. MAINTAIN ONE LANE OF TRAFFIC ALONG THIRD STREET AT ALL TIMES IN EACH DIRECTION.
5. NOTHING TO BE LEFT OPEN OVERNIGHT. PRIOR TO CLOSE OF BUSINESS EACH DAY METAL PLATES MUST BE SECURED OVER OPEN ROADWAY CUTS.
6. FLASHING WARNING LIGHTS AND/OR FLAGS MAY BE USED TO CALL ATTENTION TO THE ADVANCE WARNING SIGNS.
7. FLASHING WARNING LIGHTS MAY BE USED ON TYPE 3 BARRICADES.
8. DETOUR SIGNS MAY BE LOCATED ON THE FAR SIDE OF INTERSECTIONS. A DETOUR SIGN WITH AN ADVANCE ARROW MAY BE USED IN ADVANCE OF A TURN.
9. A STREET NAME SIGN MAY BE MOUNTED WITH THE DETOUR SIGN. THE STREET NAME SIGN MAY BE EITHER WHITE ON GREEN OR BLACK ON ORANGE. WHEN USED, THE STREET NAME SIGN SHALL BE PLACED ABOVE THE DETOUR SIGN.
10. SEE SECTION 6F.03, SIGN PLACEMENT, OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR INFORMATION ON PLACEMENT AND MOUNTING OF SIGNS.
11. NOTHING IN THIS PLAN IS INTENDED TO SUPERSEDE OR RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING THE APPROPRIATE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
12. ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
13. SIDE STREET, DRIVEWAY ACCESS, AND SAFE PEDESTRIAN WAYS SHALL BE MAINTAINED AT ALL TIMES.
14. CONTRACTOR SHALL USE PLASTIC DRUMS WITH TYPE "A" WARNING LIGHTS TO SEPARATE TRAFFIC FROM THE CONSTRUCTION AREA.
15. CONTRACTOR SHALL MAINTAIN EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SIGNS OR DEVICES DURING CONSTRUCTION AND THEY SHALL REMAIN COVERED DURING CONSTRUCTION AND UNTIL SUCH TIME THAT NO CONFLICT EXISTS.
16. CONTRACTOR SHALL PROVIDE AND MAINTAIN NECESSARY FENCES, BARRICADES, LIGHTS, SIGNS, STEEL PLATES, AND OTHER TRAFFIC CONTROL MEASURES AS REQUIRED FOR THE PROTECTION AND SAFETY OF THE PUBLIC THROUGHOUT THE CONSTRUCTION ACTIVITIES ON THE SITE.
17. ALL TRAFFIC CONTROL SIGNS SHALL MEET THE MINIMUM RETROREFLECTIVITY LEVELS SPECIFIED IN THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
18. CONTRACTOR SHALL CONTACT ALL APPROPRIATE AGENCIES BEFORE CLOSING ANY ROADWAYS.
19. ENSURE PLACEMENT OF TRAFFIC CONTROL SIGNS ALLOWS FOR VEHICLE PASSAGE LANE MINIMUM OF 12' WIDE. IF SIGNS WILL NOT ALLOW VEHICLES TO PASS, RELOCATE SIGN TO ALLOW VEHICLES TO PASS.

N.T.S.



TEMPORARY TRAFFIC CONTROL PLAN

**POPLAR STREET LANE AND 3RD STREET
STORMWATER IMPROVEMENTS**

MACON WATER AUTHORITY

REVISION INFORMATION	
REV.	DESCRIPTION
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