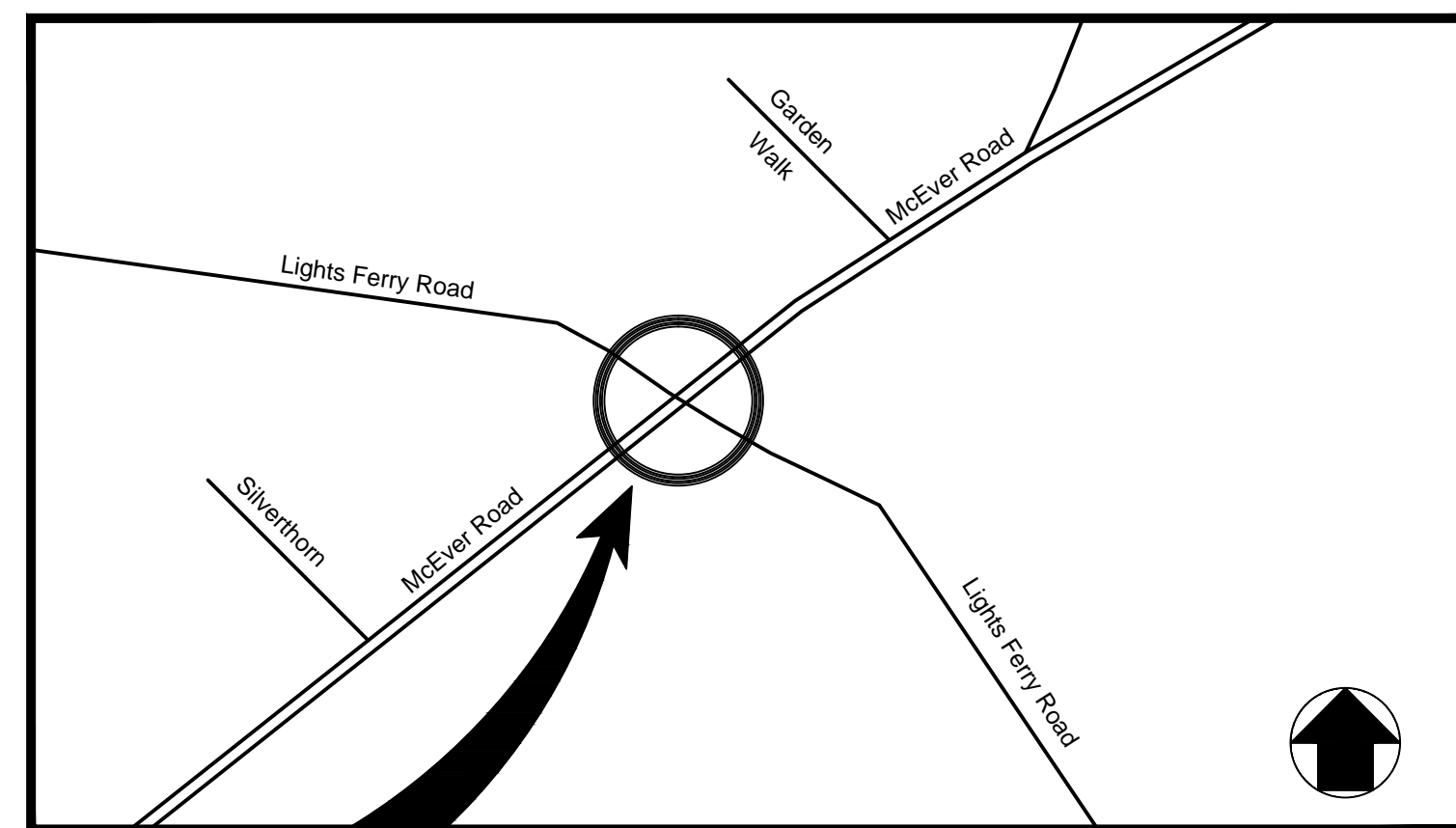


# Attachment #001 CONSTRUCTION PLANS FOR

## McEver and Lights Ferry Road Roundabout

LOCATED IN HALL COUNTY, GEORGIA  
2nd. DISTRICT



**SITE**  **LOCATION MAP**  
N.T.S.  
LAT. 34.19618° N  
LONG. - 83.9356° W

### CONTACTS

#### OWNER:

HALL COUNTY BOARD OF COMMISSIONERS  
2875 BROWNS BRIDGE ROAD  
GAINESVILLE, GEORGIA 30503

TOTAL DISTURBED AREA= 3.90 ACRES  
TOTAL EXISTING IMPERVIOUS AREA = 1.04 ACRES  
TOTAL PROPOSED IMPERVIOUS AREA = 1.16 ACRES

NO PART OF THE PROJECT SITE IS LOCATED WITHIN 1 MILE OF AN IMPAIRED STREAM .

THERE ARE NO STATE WATERS REQUIRING A 50' OR 100' UNDISTURBED BUFFER ON THE SITE OR WITHIN 200 FEET OF THE SITE.

NO PART OF THE SITE IS LOCATED IN THE 100 YEAR FLOOD PLAIN PER HALL COUNTY FUTURE FLOOD ZONE

#### CIVIL ENGINEER:

HALL COUNTY OF PUBLIC WORKS  
ENGINEERING DIVISION  
2875 BROWNS BRIDGE ROAD  
GAINESVILLE, GEORGIA 30503  
CONTACT: FRANKLIN P. MILLER, P.E.  
770-531-6800

Hall County Project Manager:  
Franklin P. Miller, P.E.  
fmiller@hallcounty.org  
770 470-691-4244

City of Flowery Branch  
Rich Atkinson  
rich@flowerybranch.org  
770 967-6371

City of Gainesville Department of Water Resources  
Nick Swafford  
nswafford@gainesvillega.gov  
770 538-2452

### DRAWING INDEX

SHEET	DESCRIPTION
C-1	COVER SHEET
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C-3	TYPICAL SECTIONS
C-4	DEMOLITION PLAN
C-5	CONSTRUCTION/STAKING PLAN
C-6	GRADING/DRAINAGE PLAN
C-7	RIGHT OF WAY PLAN
C-8	UTILITY PLAN
C-9	SIGNING/STRIPING PLAN
C-10	PROFILES
C-11	EROSION CONTROL PLAN
C-12	LANDSCAPE PLAN
C-13	DETAILS
C-14	DETAILS

HALL COUNTY CONTACT:  
FRANK MILLER  
770-531-6800

24 HR CONTACT:  
FRANK MILLER  
770-531-6800



ENGINEERING DIVISION  
HALL COUNTY DEPARTMENT  
OF PUBLIC WORKS  
P.O. DRAWER 1435  
GAINESVILLE, GA 30503  
Phone: 770-531-6800 Fax: 770-531-3945



COVER SHEET  
MCEVER ROAD & LIGHTS FERRY ROAD  
ROUNDABOUT IMPROVEMENT  
HALL COUNTY, GEORGIA

NO.	REVISION	DATE
1.	Issued for Construction	12/1/22
2.	Added Sheet	6/15/23

DRAWN BY: F. MILLER  
CHECKED BY:  
DATE:



LEVEL II E&S CERT. # 13711  
EXP. DATE 07-19-2024

C-1

**CONSTRUCTION GENERAL NOTES:**

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE ENTIRE CONSTRUCTION LIMITS DURING CONSTRUCTION. A PRECONSTRUCTION MEETING IS REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION.

- CONTRACTOR SHALL INSURE ACCESS IS MAINTAINED TO ALL ADJACENT PROPERTIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL STORE ALL EQUIPMENT AND MATERIAL IN A LOCATION CLEAR OF TRAFFIC AND APPROVED BY HALL COUNTY.
- CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES. ANY DETOURS OR ROAD CLOSURES SHALL BE APPROVED BY HALL COUNTY TRAFFIC ENGINEER AND SHALL MEET THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL ROADWAY SUBGRADE AND BASE SHALL BE COMPACTED TO 98% STANDARD PROCTOR. HALL COUNTY INSPECTOR MAY REQUIRE "ROLL TESTS" AS DEEMED NECESSARY USING A 20 TO 30 TON OR OTHER SIMILAR VEHICLE.
- WHEN SITE IS APPROVED BY HALL COUNTY ENGINEERING, THE SITE SHALL BE CLEAN AND NEAT CONDITION. ALL DEBRIS, VEGETATION AND SPOILS SHALL BE REMOVED.

**CONSTRUCTION SEQUENCE:**

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT EROSION IS MINIMIZED AND THAT COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, AND ORDINANCES IS MAINTAINED THROUGHOUT EXECUTION OF THIS PROJECT.

- OBTAIN A LAND DISTURBING PERMIT. SCHEDULE A PRE-CONSTRUCTION MEETING.
- INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT TRAPS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION. SEE DETAIL ON SEEDING SCHEDULE. CONTRACTOR SHALL BEGIN WITH SEDIMENT FENCING AND ALL OTHER SEDIMENT CONTAINMENT DEVICES FOLLOWED BY ALL DIVERSION AND BY-PASS DITCHES/BERMS.
- BEGIN CLEARING/GRUBBING AND GENERAL EXCAVATION ON SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PHASE/STAGE EROSION CONTROL TO ALLOW FOR CONSTRUCTION.  
NOTE: CONTRACTOR SHALL INSPECT AND REPAIR ALL EROSION DEVICES AT LEAST ONCE A WEEK AND AFTER EVERY RAINFALL. GRADING ACTIVITY SHALL BE PROHIBITED IN THE AREAS OF THE SEDIMENT CONTROL DEVICES/SEDIMENT TRAPS UNTIL THE AREAS UPSTREAM OF THESE DEVICES HAVE BEEN STABILIZED AND APPROVED.
- BEGIN INSTALLING UPSTREAM STORM DRAINAGE SYSTEM. INSTALL APPROVED INLET PROTECTION. TERMINATE STORM DRAINAGE SYSTEM AT TEMPORARY SEDIMENT TRAP DEVICES UNTIL SUCH DEVICES HAVE BEEN APPROVED FOR REMOVAL. ADDITIONAL MEASURES MAY BE REQUIRED BY THE INSPECTOR DUE TO THE ROUTING OF THE STORM DRAINAGE SYSTEM AND ACTUAL FIELD CONDITIONS;  
NOTE: SEDIMENT BASINS SHALL BE FUNCTIONAL THROUGHOUT GRADING AND EXCAVATING.
- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC.. SEED AND MULCH DENUDED AREAS WITHIN FIFTEEN (15) DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION;  
NOTE: THE CONTRACTOR SHALL ENSURE THAT THE EROSION CONTROL DEVICES REMAIN UNDISTURBED DURING CONSTRUCTION OF THE BUILDING PADS AND ASSOCIATED PARKING/DRIVE AREAS ADJACENT TO THESE DEVICES UNTIL THE CONTRIBUTING UPSTREAM AREAS HAVE BEEN STABILIZED AND APPROVED.
- WHEN SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCING, SEDIMENT BASINS, ETC... AND SEED OUT OR PAVE ANY RESULTING BARE AREAS. CONNECT UPSTREAM STORM DRAINAGE.

**GRADING/EROSION CONTROL NOTES**

- ALL GRADING, BACKFILLING, EXCAVATION, ETC..., SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL INVESTIGATION REPORTS. REFER TO THESE REPORTS FOR ADDITIONAL INFORMATION NOT TRANSFERRED TO THESE PLANS.
- CONTRACTOR IS TO CONTACT UTILITIES PROTECTION CENTER AT 800-282-7411 FOR UNDERGROUND UTILITY LOCATION 3 DAYS PRIOR TO ANY DIGGING
- THE EROSION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO ANY EARTHWORK.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED.
- ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED AND REPAIRED AT A MINIMUM OF WEEKLY BASIS AND AFTER EVERY RAIN EVENT.
- ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIALS AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM.
- CONTRACTOR SHALL LOCATE AND VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE VIA THE CONSTRUCTION ENTRANCES.
- THE APPROXIMATE AREA OF THE LIMITS OF CLEARING, GRADING, AND CONSTRUCTION IS 0.07 ACRES.
- PURSUANT TO G.S. 113A-57(2), THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, WITHIN 21 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PURSUANT TO G.S. 113A-57(3), PROVISIONS FOR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION MUST BE ACCOMPLISHED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
- ALL CUT AND FILL SLOPES AND CHANNEL SIDESLOPES WHICH ARE NOT TO BE PAVED, SHALL BE SEEDED UNTIL A GOOD STAND OF GRASS IS OBTAINED IN ACCORDANCE WITH:
  - 100 LBS PER 1,000 SQUARE FOOT GROUND LIMESTONE OR EQUIVALENT. NO SOIL TEST REQUIRED FOR INITIAL ESTABLISHMENT.
  - 20 LBS OF 10-10-10 FERTILIZER OR EQUIVALENT PER 1,000 SQUARE FOOT.
  - VARIETIES TO BE SEEDED:
    - SPRING SEEDING - MARCH 1 - APRIL 30; SPRING OATS 2.5 LBS PER 1,000 SQUARE FOOT.
    - SUMMER SEEDING - MAY 1 - AUGUST 1; WEEPING LOVE GRASS AT 2 OZ. PER SQUARE FOOT MIXED WITH 1 BUSHEL OF SAWDUST FOR UNIFORM SEEDING.
    - ASPHALT MULCH 6 GALLONS PER 1,000 SQUARE FOOT. ALL SEEDING WILL BE MULCHED.

**MAINTENANCE NOTES:**

IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED AND MAINTAINED DAILY AND AFTER EACH RAINFALL GREATER THAN 0.5 INCHES. ANY SEDIMENT THAT HAS BEEN TRANSPORTED BEYOND THE PROJECT LIMITS SHALL BE REMOVED. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

CONSTRUCTION ENTRANCE:

INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOPDRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.

SILT FENCE:

INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SILT FENCE GRAVEL OUTLET:

INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.

OUTLET STABILIZATION STRUCTURE:

INSPECT RIP RAP STRUCTURES WEEKLY AND AFTER SIGNIFICANT (0.5 INCH OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIP RAP HAS TAKEN PLACE, OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

BLOCK AND GRAVEL INLET PROTECTION:

INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

SEDIMENT TRAP:

INSPECT TEMPORARY SEDIMENT TRAPS AT LEAST WEEKLY AND AFTER RAINFALL EVENTS 0.5 INCHES OR MORE. REMOVE SEDIMENT AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN THE DESIGNATED DISPOSAL AREA, AND REPLACE THE PART OF THE GRAVEL FACING THAT IS IMPAIRED BY SEDIMENT.

CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OR PIPING. PERIODICALLY CHECK THE DEPTH OF THE SPILLWAY TO ENSURE IT IS A MINIMUM OF 1.5 FEET BELOW THE LOW POINT OF THE EMBANKMENT. IMMEDIATELY FILL ANY SETTLEMENT OF THE EMBANKMENT TO SLIGHTLY ABOVE DESIGN GRADE. **ANY RIPRAP DISPLACED FROM THE SPILLWAY MUST BE REPLACED IMMEDIATELY.**

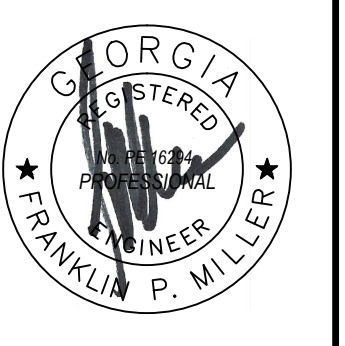
ENGINEERING DIVISION  
HALL COUNTY DEPARTMENT  
OF PUBLIC WORKS  
P.O. DRAWER 1435  
GAINESVILLE, GA 30503  
Phone: 770-531-6800 Fax: 770-531-3945



GENERAL NOTES  
McEVER ROAD & LIGHTS FERRY ROAD  
ROUNDABOUT IMPROVEMENT  
HALL COUNTY, GEORGIA

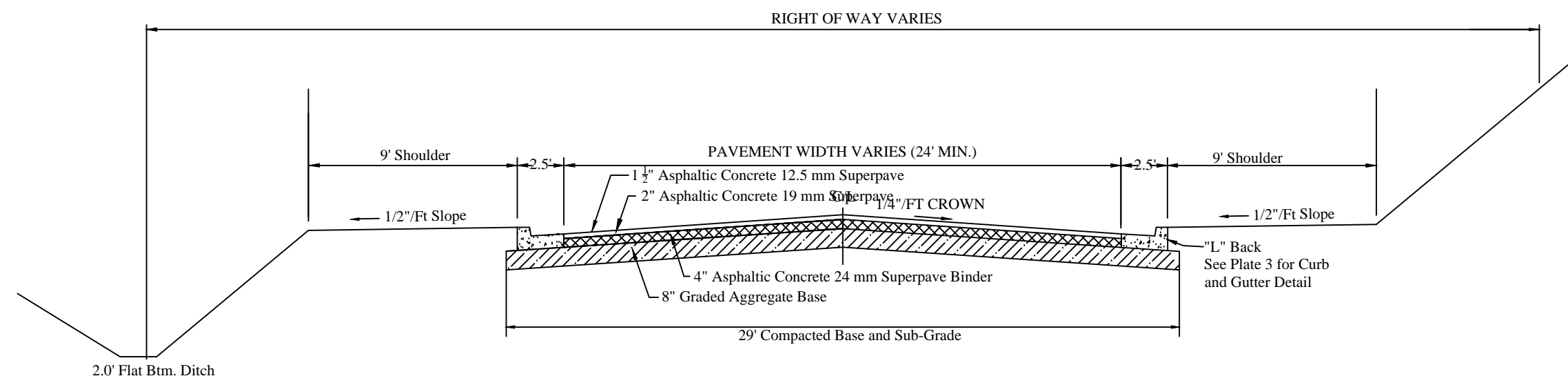
NO.	REVISION	DATE
1.	Issued for Construction	12/1/22
2.	Added Sheet	6/15/23

DRAWN BY: F. MILLER  
CHECKED BY:  
DATE:



LEVEL II E&S CERT. # 13711  
EXP. DATE 07-19-2024

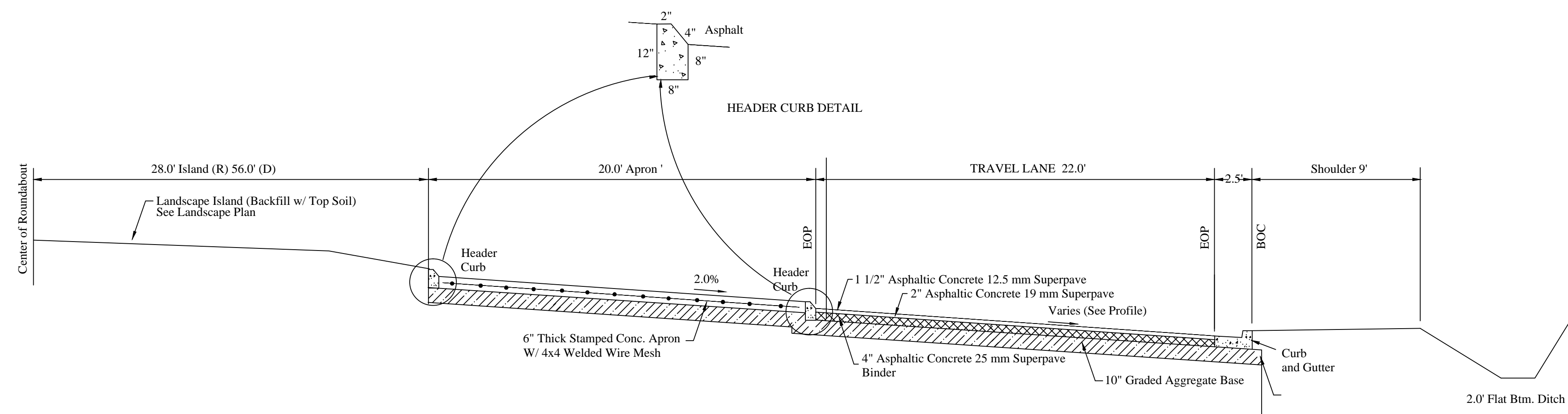
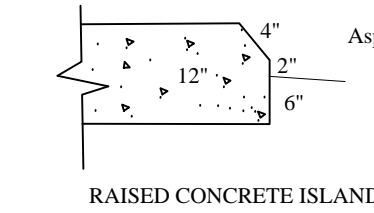
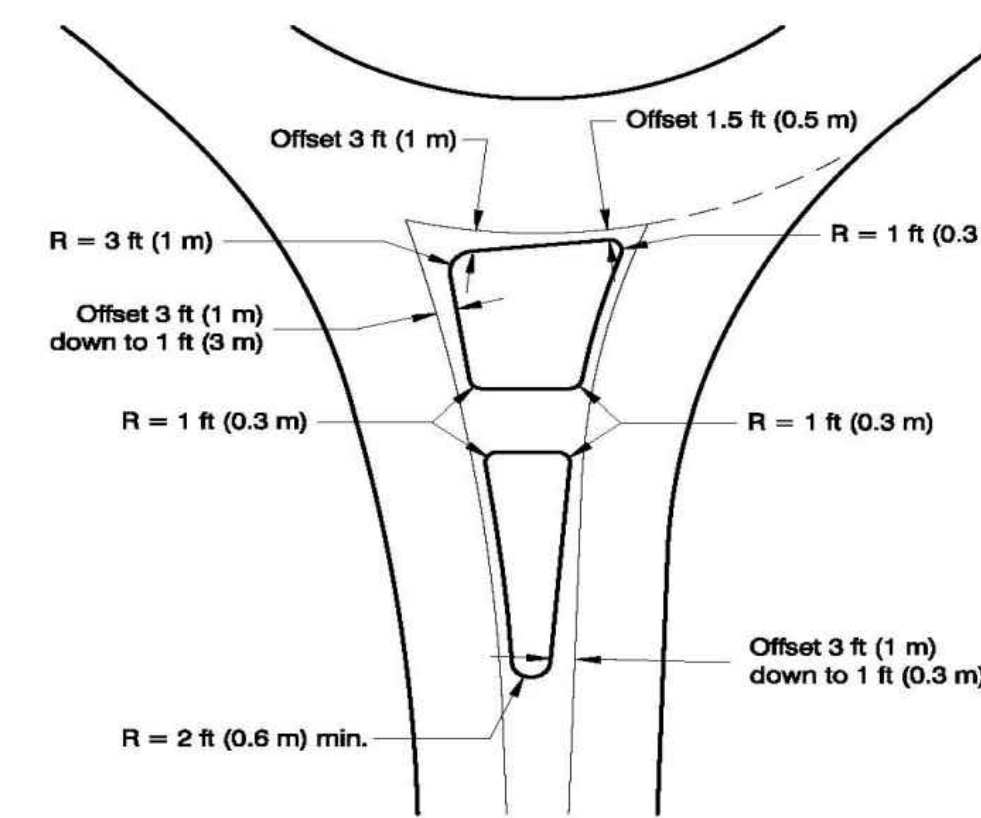




- NOTES:
1. Maximum Cut or Fill Slope is 2H:1V
  2. Subgrade Compaction Minimum 98% Standard Proctor.
  3. Clearing Required to Top or Toe of Slope  
Trees within one foot of fill or less may remain. See Section 16.70.170 for details
  4. Prime Between GAB and Asphalt Binder
  5. Tack Between all other layers.

NOT TO SCALE

**TYPICAL SECTION (FULL SECTION)**  
McEVER ROAD  
LIGHTS FERRYROAD



NOT TO SCALE

**TYPICAL SECTION**  
ROUNDAABOUT

**NOTES:**

- All concrete shall be 4000 PSI.
- All sub-base shall be compacted to 98% Standard Proctor.
- Mill asphalt at all ties, inlay for smooth transition.



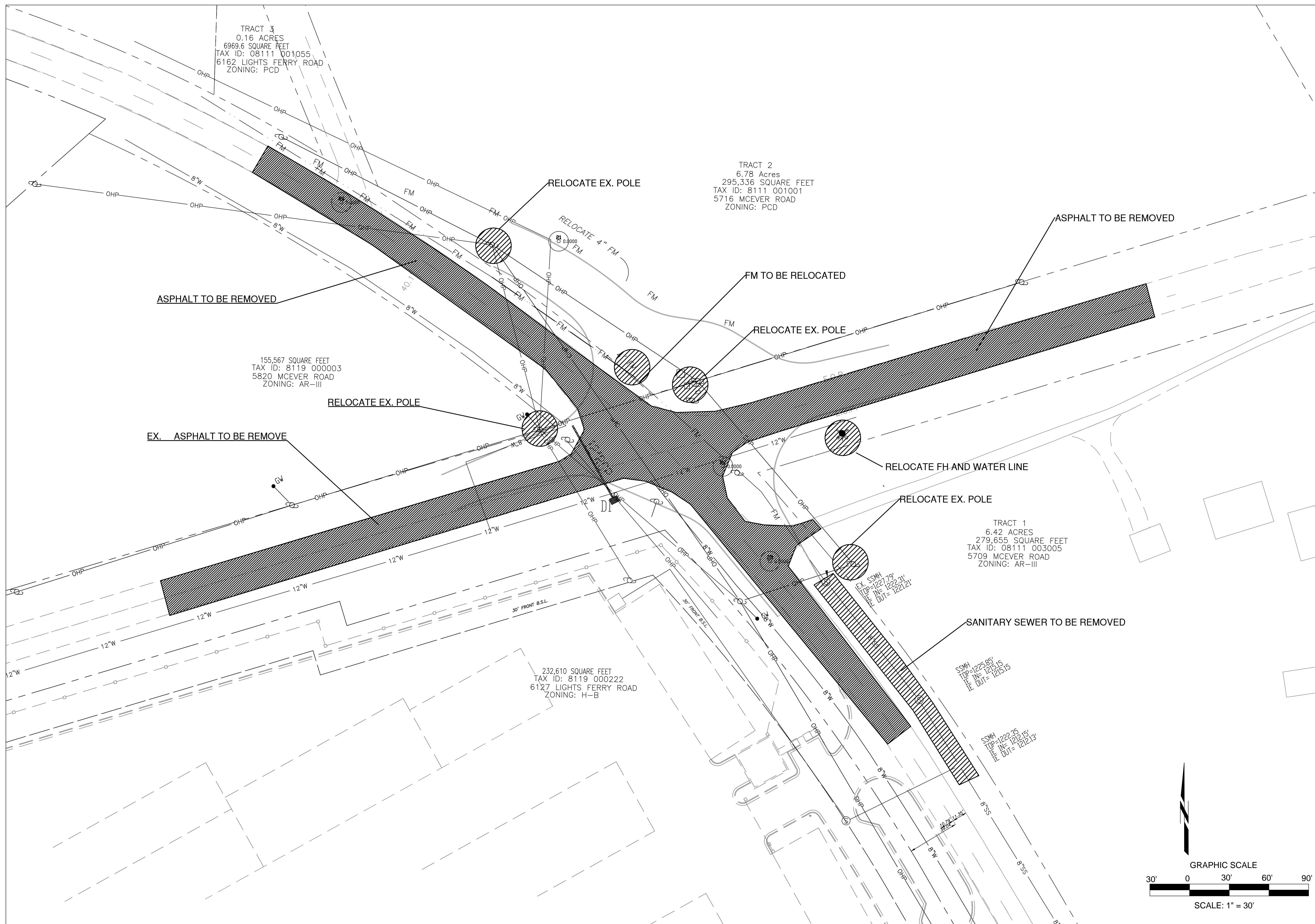
**TYPICAL SECTIONS**  
McEVER ROAD & LIGHTS FERRY ROAD  
ROUNDAABOUT IMPROVEMENTS  
HALL COUNTY, GEORGIA

NO.	REVISION	DATE
1.	Issued for Construction	12/1/22
2.	Revised Island	6/15/23

DRAWN BY: F. MILLER  
CHECKED BY: BN  
DATE: 5/3/21



LEVEL II E&S CERT. # 13711  
EXP. DATE 07-19-2024



TRACT 3  
0.16 ACRES  
6969.6 SQUARE FEET  
TAX ID: 08111 001055  
6162 LIGHTS FERRY ROAD  
ZONING: PCD

TRACT 2  
6.78 ACRES  
295,336 SQUARE FEET  
TAX ID: 8111 001001  
5716 MCEVER ROAD  
ZONING: PCD

155,567 SQUARE FEET  
TAX ID: 8119 000003  
5820 MCEVER ROAD  
ZONING: AR-III

232,610 SQUARE FEET  
TAX ID: 8119 000222  
6127 LIGHTS FERRY ROAD  
ZONING: H-B

TRACT 1  
6.42 ACRES  
279,655 SQUARE FEET  
TAX ID: 08111 003005  
5709 MCEVER ROAD  
ZONING: AR-III

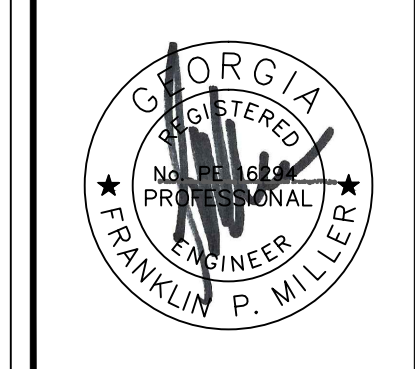
**ENGINEERING DIVISION**  
**HALL COUNTY DEPARTMENT**  
**OF PUBLIC WORKS**  
P. O. DRAWER 1435  
GAINESVILLE, GA 30503  
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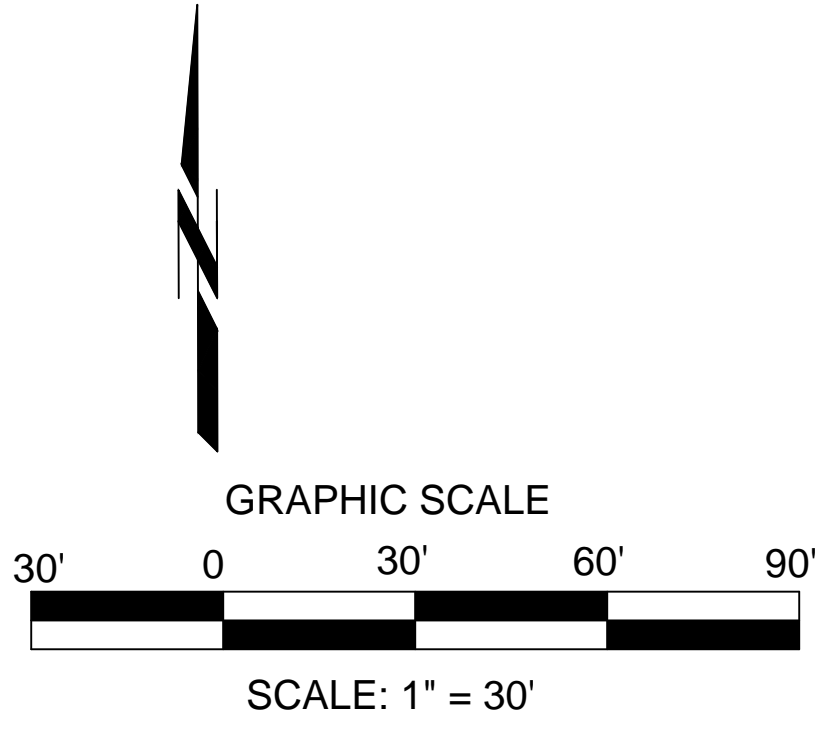
**DEMOLITION PLAN**  
**MCEVER ROAD & LIGHTS FERRY ROAD**  
**ROUNDABOUT IMPROVEMENTS**  
**HALL COUNTY, GEORGIA**

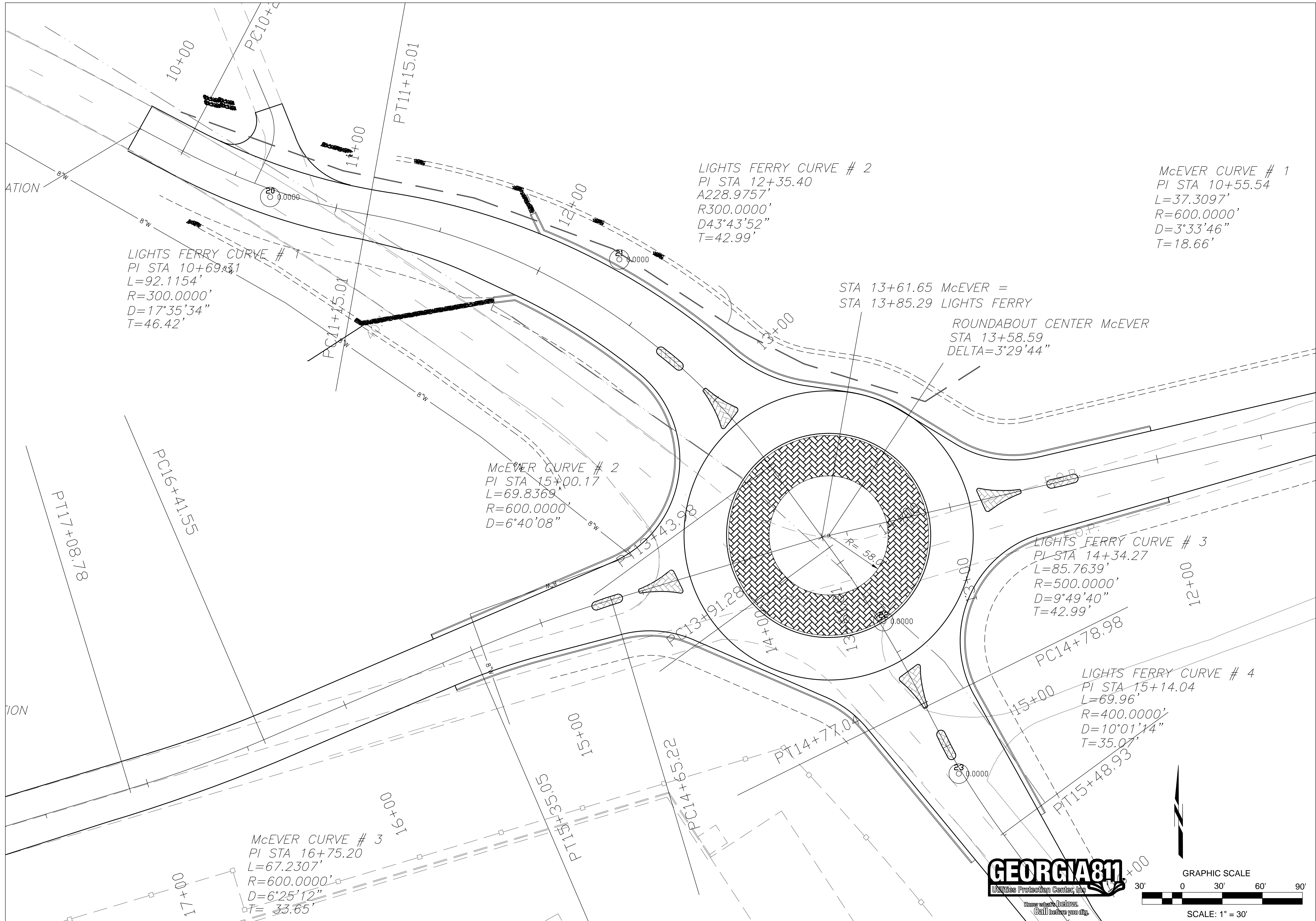
NO.	REVISION	DATE
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2.	Added Sheet	6/14/23

DRAWN BY: F. MILLER  
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LEVEL II E&S CERT. # 13711  
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LIGHTS FERRY CURVE # 1  
 PI STA 10+69.831  
 L=92.1154'  
 R=300.0000'  
 D=17°35'34"  
 T=46.42'

LIGHTS FERRY CURVE # 2  
 PI STA 12+35.40  
 A228.9757'  
 R300.0000'  
 D43°43'52"  
 T=42.99'

McEVER CURVE # 1  
 PI STA 10+55.54  
 L=37.3097'  
 R=600.0000'  
 D=3°33'46"  
 T=18.66'

STA 13+61.65 McEVER =  
 STA 13+85.29 LIGHTS FERRY

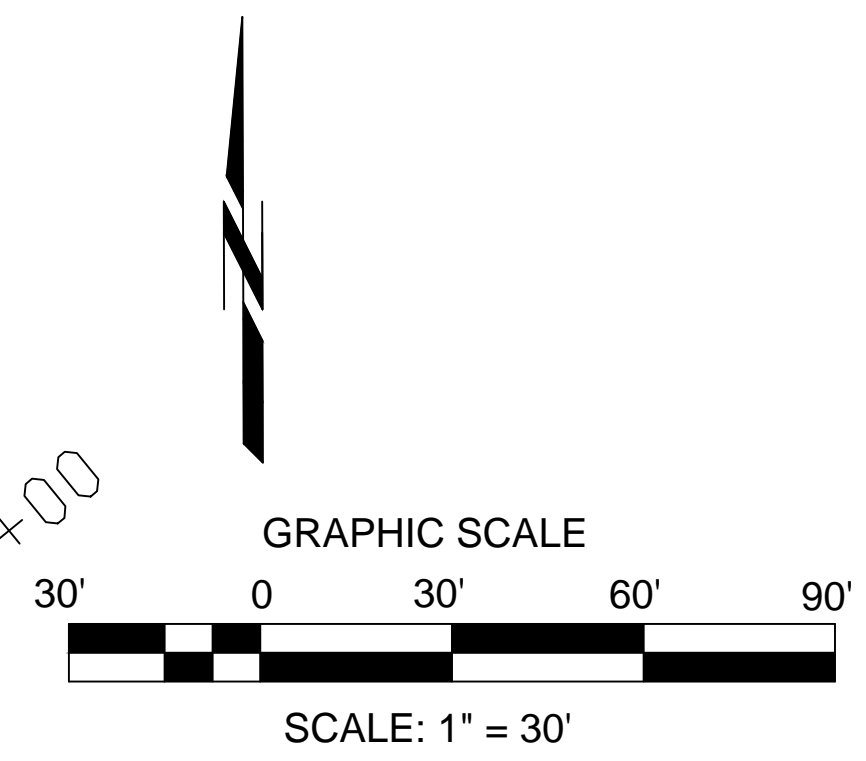
ROUNDABOUT CENTER McEVER  
 STA 13+58.59  
 DELTA=3°29'44"

McEVER CURVE # 2  
 PI STA 15+00.17  
 L=69.8369'  
 R=600.0000'  
 D=6°40'08"

LIGHTS FERRY CURVE # 3  
 PI STA 14+34.27  
 L=85.7639'  
 R=500.0000'  
 D=9°49'40"  
 T=42.99'

LIGHTS FERRY CURVE # 4  
 PI STA 15+14.04  
 L=69.96'  
 R=400.0000'  
 D=10°01'14"  
 T=35.07'

McEVER CURVE # 3  
 PI STA 16+75.20  
 L=67.2307'  
 R=600.0000'  
 D=6°25'12"  
 T=33.65'



ENGINEERING DIVISION  
 HALL COUNTY DEPARTMENT  
 OF PUBLIC WORKS  
 P.O. DRAWER 1435  
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CONSTRUCTION STAKING PLAN  
 McEVER ROAD & LIGHTS FERRY ROAD  
 INTERSECTION IMPROVEMENTS  
 HALL COUNTY

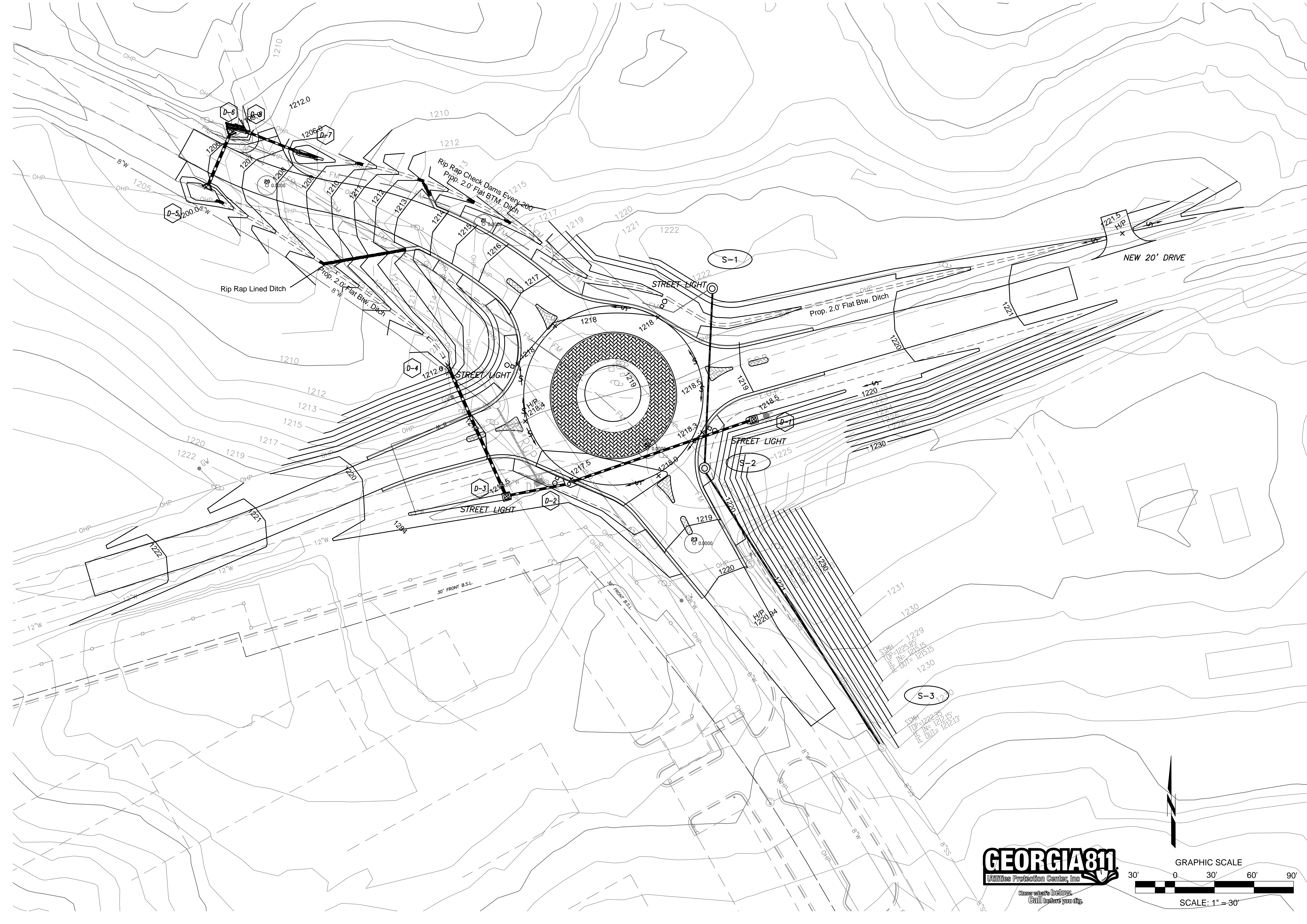
NO.	REVISION	DATE
1.	Issued for Construction	12/1/22

DRAWN BY: F. MILLER  
 CHECKED BY:  
 DATE:



LEVEL II E&S CERT. # 13711  
 EXP. DATE 07-19-2021

C-5



ENGINEERING DIVISION  
**HALL COUNTY DEPARTMENT OF PUBLIC WORKS**  
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**GRADING AND DRAINAGE PLAN**  
**McYVER ROAD & LIGHTS FERRY ROAD**  
**INTERSECTION IMPROVEMENTS**  
**HALL COUNTY**

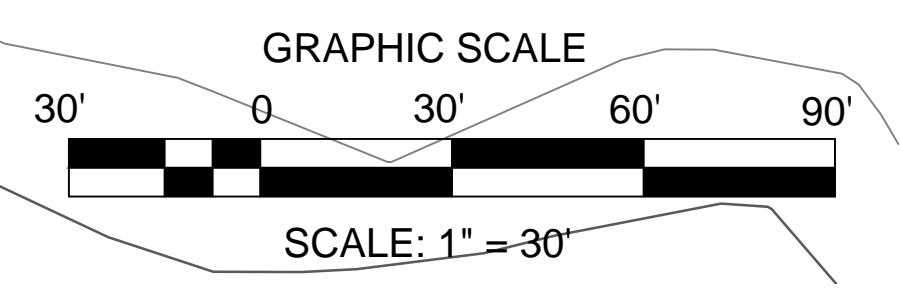
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DRAWN BY: F. MILLER  
 CHECKED BY: BN  
 DATE:



LEVEL II E&S CERT. # 13711  
 EXP. DATE 07-19-2021

**C-6**





**RIGHT OF WAY PLAN**  
**McEVER ROAD & LIGHTS FERRY ROAD**  
**ROUNDABOUT IMPROVEMENTS**  
**HALL COUNTY, GEORGIA**

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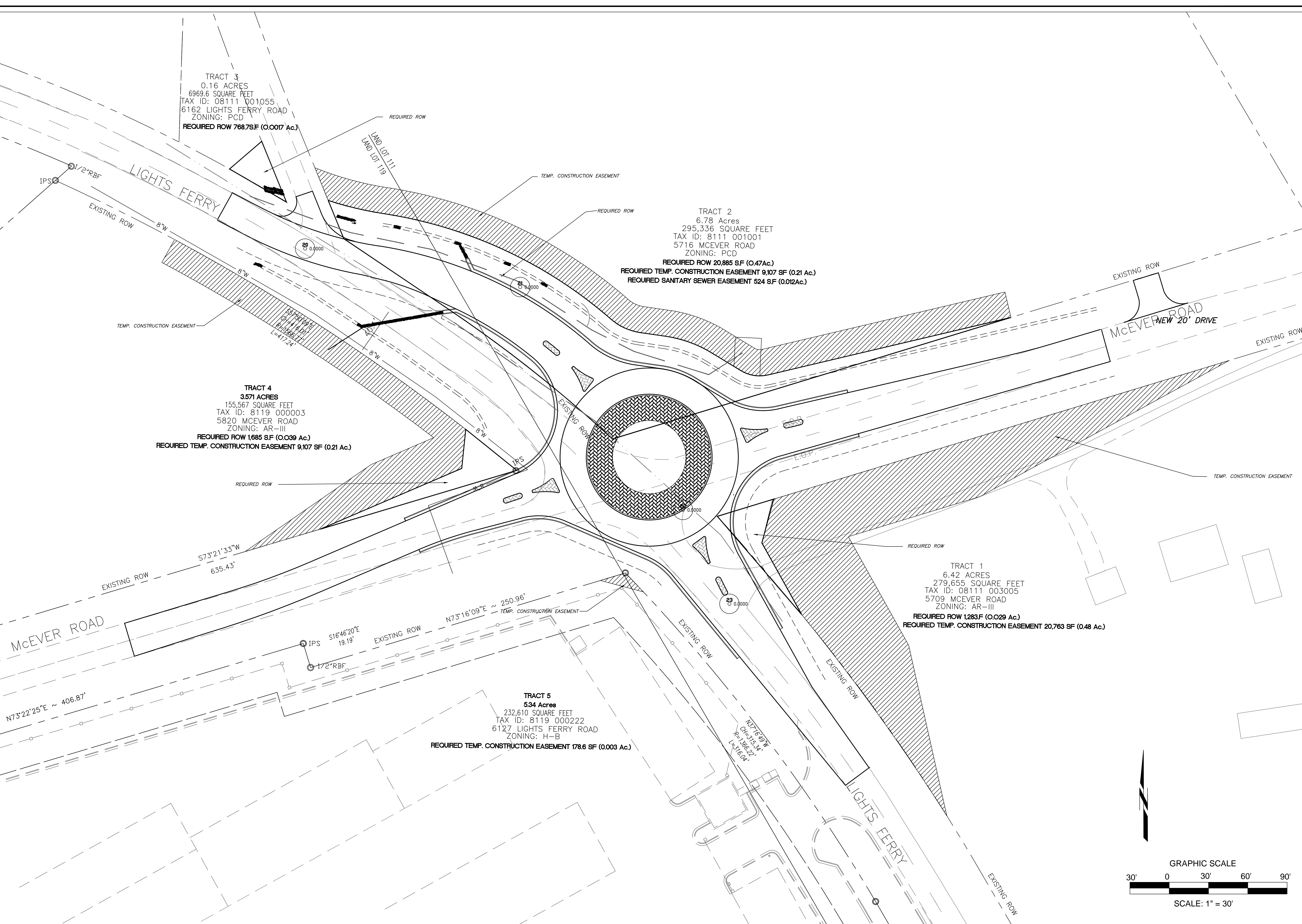
TRACT 3  
0.16 ACRES  
6969.6 SQUARE FEET  
TAX ID: 08111 001055  
6162 LIGHTS FERRY ROAD  
ZONING: PCD  
REQUIRED ROW 768.75F (0.0017 Ac.)

TRACT 2  
6.78 Acres  
295,336 SQUARE FEET  
TAX ID: 8111 001001  
5716 MCEVER ROAD  
ZONING: PCD  
REQUIRED ROW 20,885 SF (0.47Ac.)  
REQUIRED TEMP. CONSTRUCTION EASEMENT 9,107 SF (0.21 Ac.)  
REQUIRED SANITARY SEWER EASEMENT 524 SF (0.012Ac.)

TRACT 4  
3.571 ACRES  
155,567 SQUARE FEET  
TAX ID: 8119 000003  
5820 MCEVER ROAD  
ZONING: AR-III  
REQUIRED ROW 1,685 SF (0.039 Ac.)  
REQUIRED TEMP. CONSTRUCTION EASEMENT 9,107 SF (0.21 Ac.)

TRACT 1  
6.42 ACRES  
279,655 SQUARE FEET  
TAX ID: 08111 003005  
5709 MCEVER ROAD  
ZONING: AR-III  
REQUIRED ROW 1,283F (0.029 Ac.)  
REQUIRED TEMP. CONSTRUCTION EASEMENT 20,763 SF (0.48 Ac.)

TRACT 5  
534 Acres  
232,610 SQUARE FEET  
TAX ID: 8119 000222  
6127 LIGHTS FERRY ROAD  
ZONING: H-B  
REQUIRED TEMP. CONSTRUCTION EASEMENT 178.6 SF (0.003 Ac.)





TRACT 3  
0.16 ACRES  
6969.6 SQUARE FEET  
TAX ID: 08111 001055  
6162 LIGHTS FERRY ROAD  
ZONING: PCD

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GAINESVILLE, GA 30503  
Phone: 770-531-6800



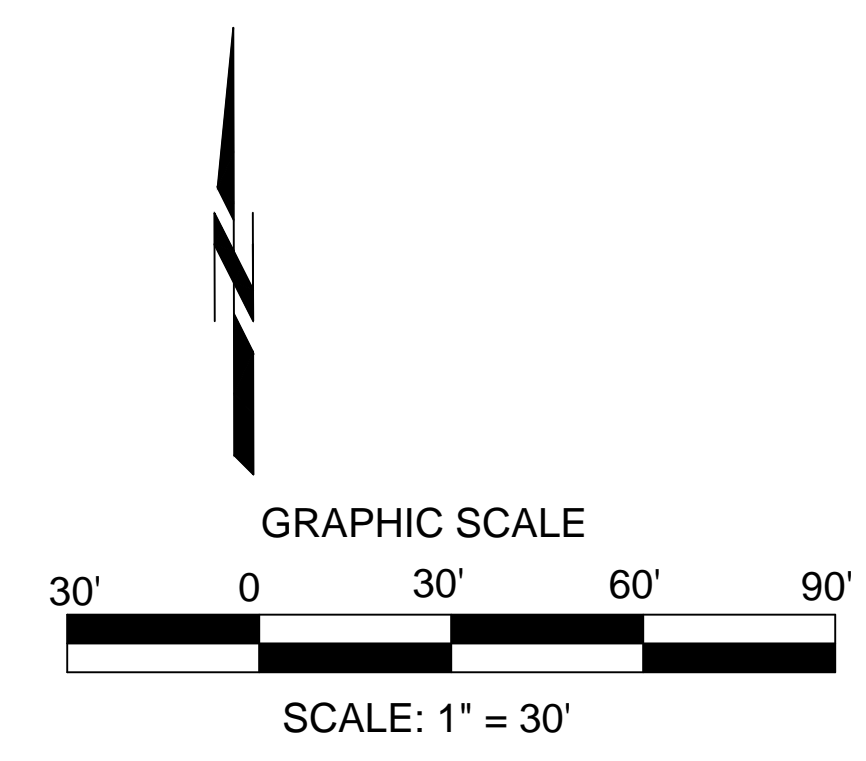
UTILITY PLAN  
MCEVER ROAD & LIGHTS FERRY ROAD  
ROUNDBOUT IMPROVEMENTS  
HALL COUNTY, GEORGIA

NO.	REVISION	DATE
1.	Issued for Construction	12/1/22
2.	Added Sheet	6/15/23

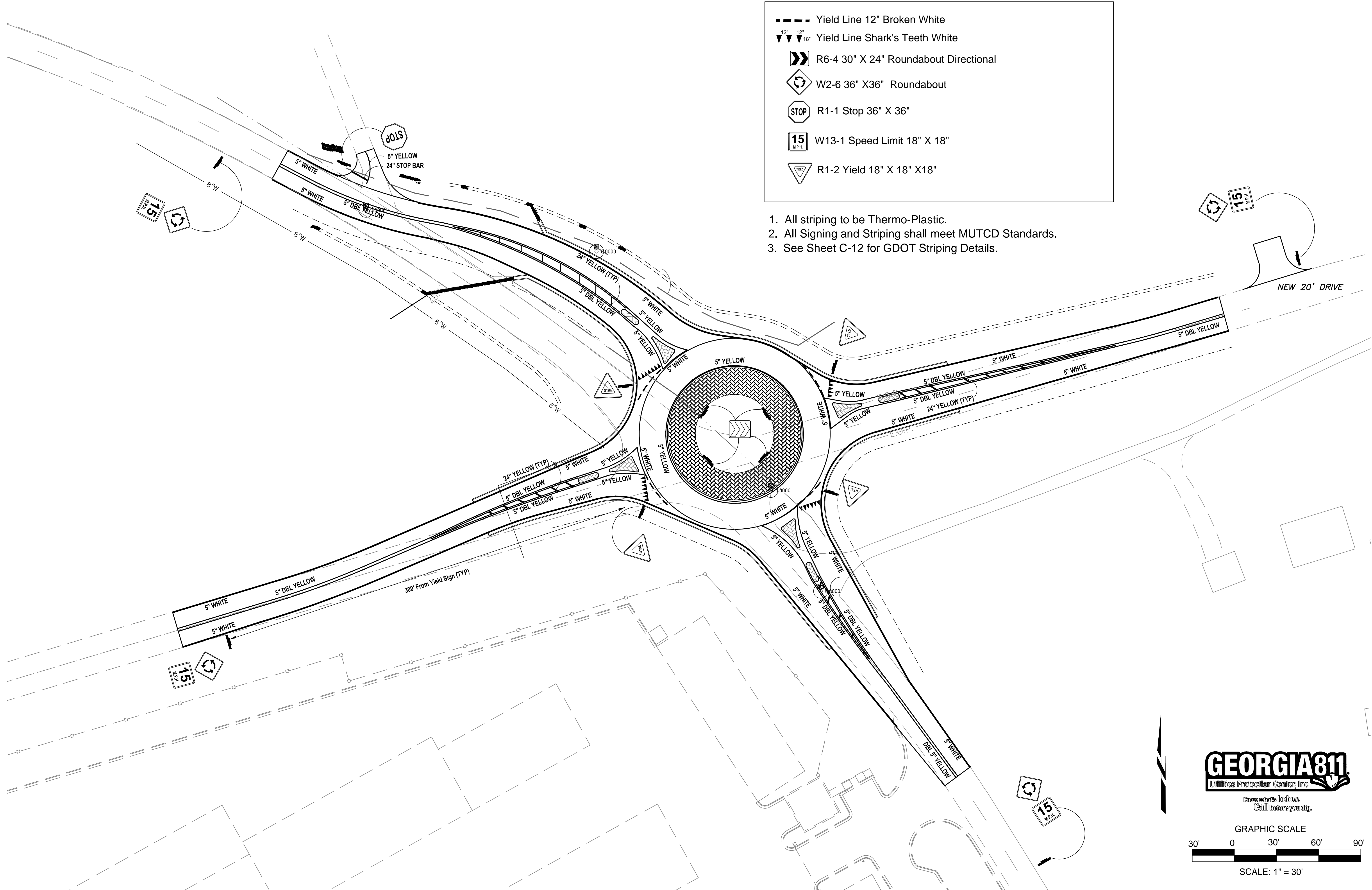
DRAWN BY: F. MILLER  
CHECKED BY:  
DATE:



LEVEL II E&S CERT. # 13711  
EXP. DATE 07-19-2021







- Yield Line 12" Broken White
- ▼▼▼ 12" 18" Yield Line Shark's Teeth White
- ➡ R6-4 30" X 24" Roundabout Directional
- ⬢ W2-6 36" X36" Roundabout
- STOP R1-1 Stop 36" X 36"
- 15 W13-1 Speed Limit 18" X 18"
- ▼ R1-2 Yield 18" X 18" X18"

1. All striping to be Thermo-Plastic.
2. All Signing and Striping shall meet MUTCD Standards.
3. See Sheet C-12 for GDOT Striping Details.



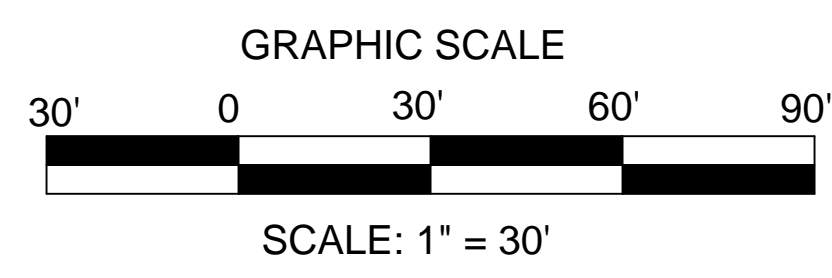
SIGNING AND STRIPING PLAN  
MCEVER ROAD & LIGHTS FERRY ROAD  
ROUNDABOUT IMPROVEMENTS  
HALL COUNTY, GEORGIA

NO.	REVISION	DATE
1.	Issued for Construction	12/1/22
1.	Added Sheet	6/15/23

DRAWN BY: F. MILLER  
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LEVEL II EAS CERT. # 13711  
EXP. DATE 07-19-2021





PROFILES  
 MCEVER AND LIGHTS FEERY ROAD  
 ROUNDABOUT IMPROVEMENTS  
 HALL COUNTY, GEORGIA

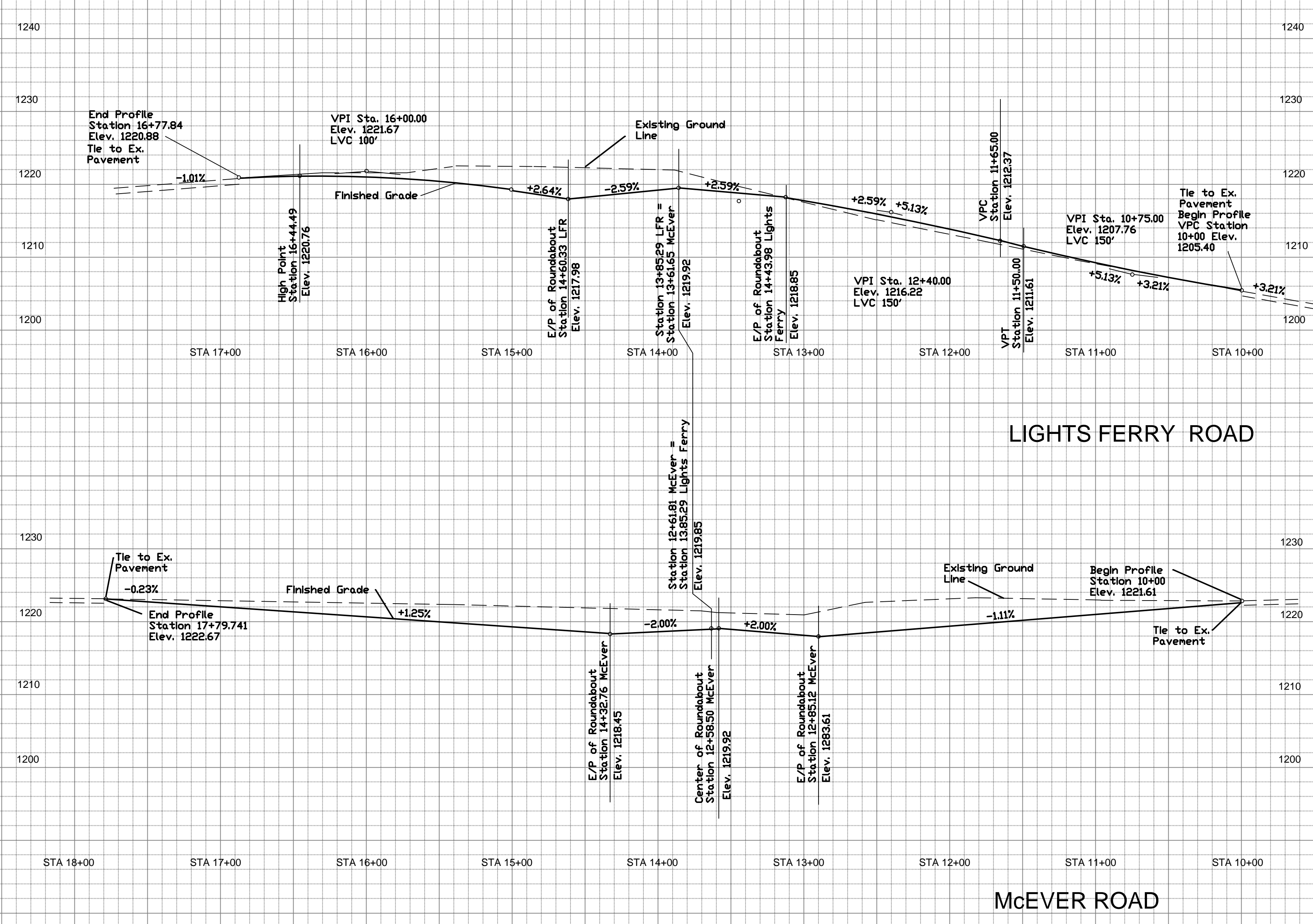
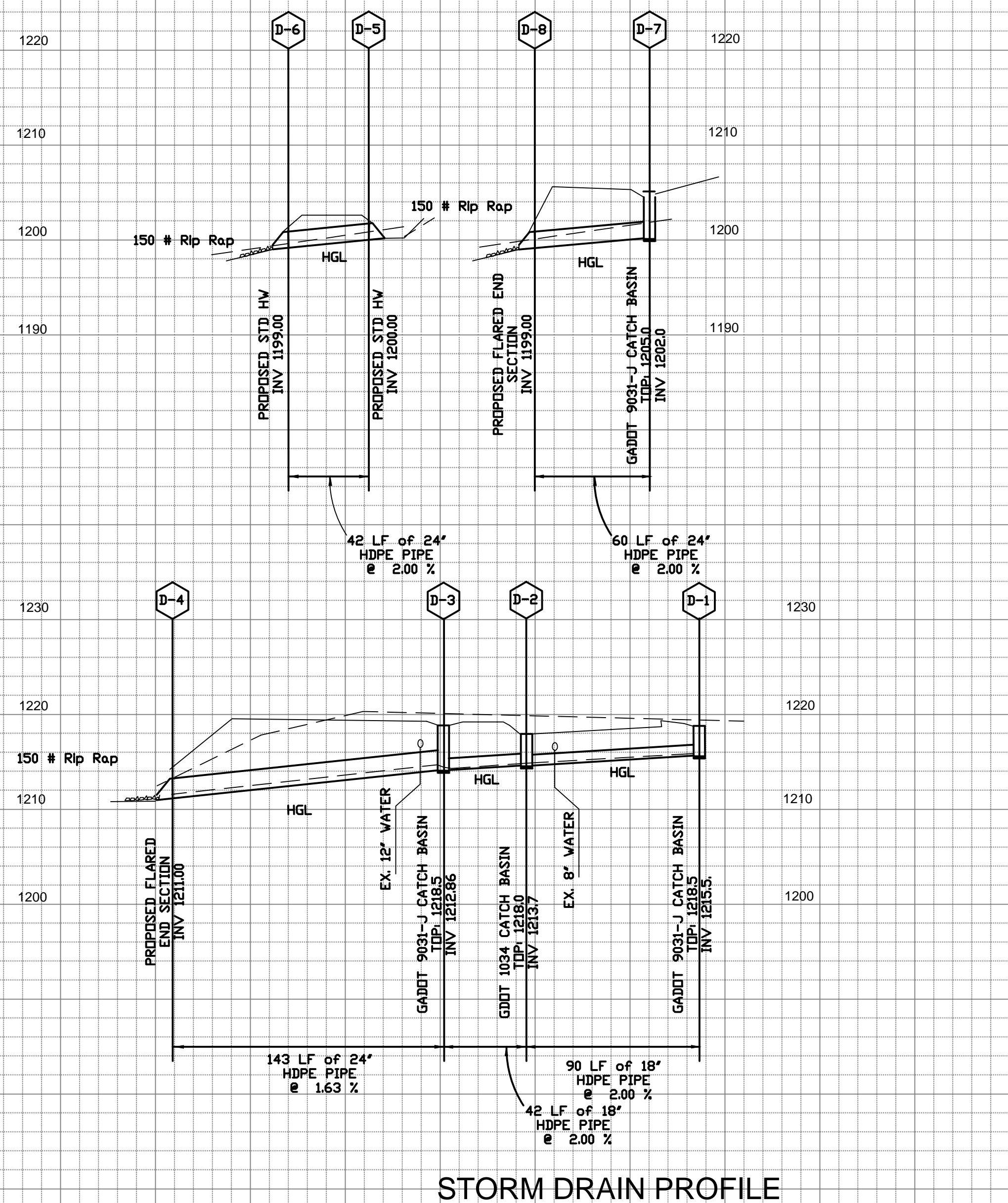
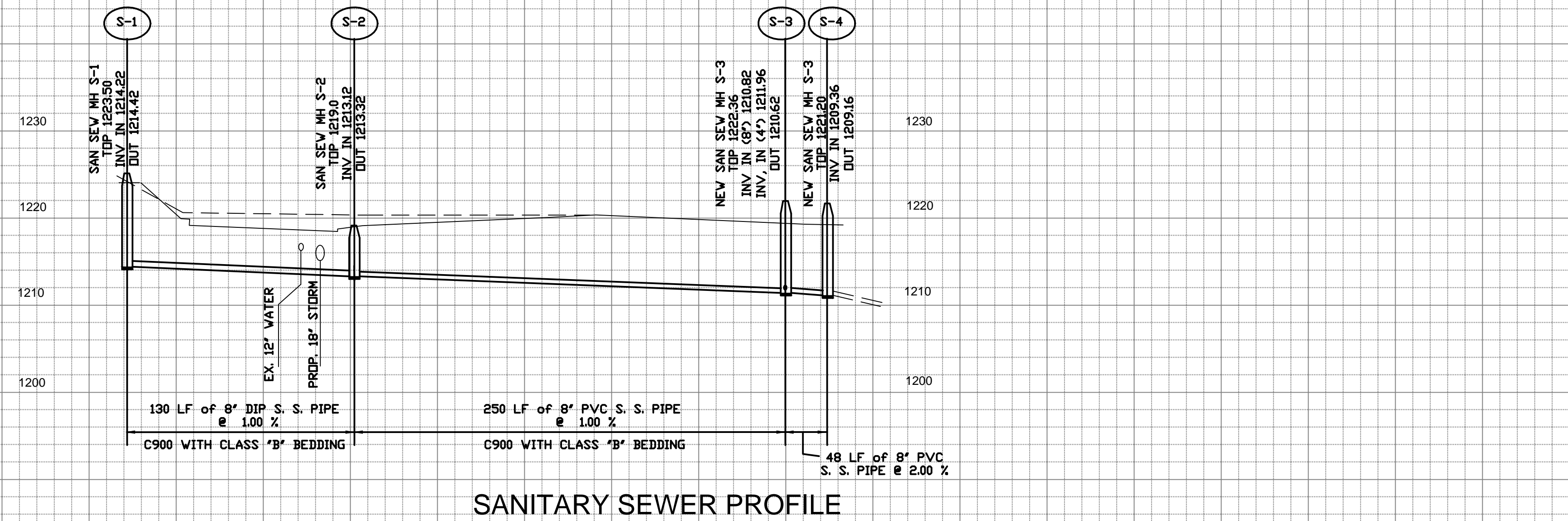
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LEVEL II E&S CERT. # 13711  
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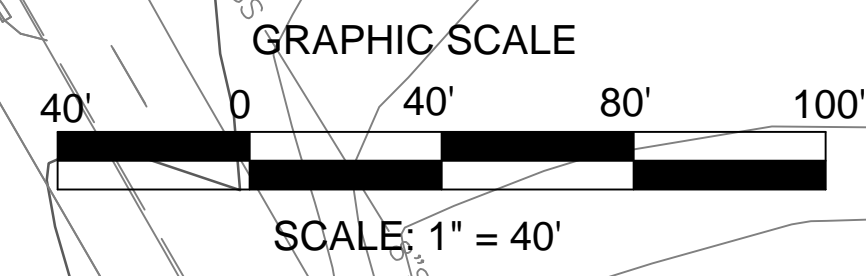
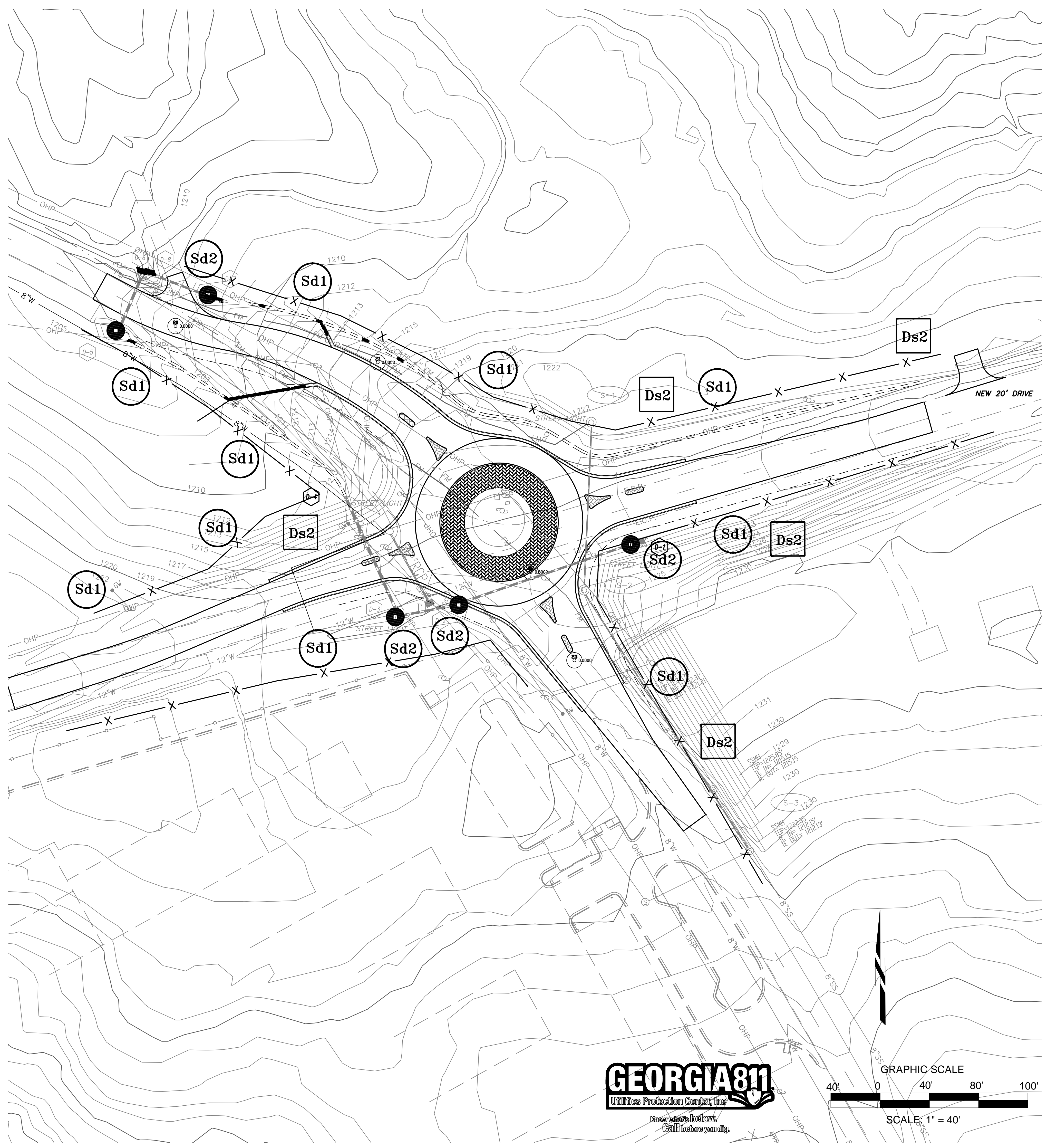
HALL COUNTY ENGINEERING PIPE CHART																			
Project:		McEver Road and Lights Ferry Road Roundabout																	
UP STREAM STR	Structure Type	Pipe Size (in.)	Pipe Material	Length (ft)	Invert Elev. In (ft)	Invert Elev. Out (ft)	Roughness Coeff.	Design Frequency (yr)	Tc (Min)	Runoff Coeff.	Intensity (In/hr)	Area (ac)	Inlet Flow (cfs)	Pipe Flow (cfs)	Slope (%)	Flow Depth (in)	Vel. (fps)	Capacity (cfs)	Outlet Spread (ft)
D-1	9031-J	18	HDPE	90	1215.5	1215.50	0.012	25	5	0.6	6.0	0.21	0.76	0.76	0.02	0.8	9.13	16.1	N/A
D-2	1034-D	24	HDPE	42.00	1213.7	1213.70	0.012	25	5	0.6	6.0	0.71	2.56	3.31	0.02	5.50	11.06	34.8	<1.0
D-3	9031-J	24	HDPE	143.00	1212.9	1212.86	0.012	25	5	0.6	6.0	0.84	3.02	6.34	0.02	8.00	10.35	22.2	N/A
D-4	FES					1211.00									0.013				
D-5	HW	24	HDPE	42.00	1200.00		0.012	25	5	0.6	6.0	0.39	1.40	1.40	0.02	3.50	6.54	20.50	N/A
D-6	HW					1199.00													
D-7	9031-J	18	HDPE	60.00	1200.00		0.012	25	5	0.6	6.0	1.07	3.85	3.85	0.02	5.20	6.54	20.50	N/A
D-8	FES					1199.00													



HORIZ. SCALE: 1"=50'  
 VERT. SCALE: 1"=10'

# EROSION CONTROL NOTES

- OWNER: HALL COUNTY BOARD OF COMMISSIONERS  
2875 BROWNS BRIDGE ROAD  
GAINESVILLE, GA. 30504  
(770) 531-6800
- EMERGENCY 24-HOUR CONTACT: FRANKLIN P. MILLER, P.E.  
(770) 531-6800
- PROJECT DESCRIPTION: THE LAND DISTURBING ACTIVITY CONSIST OF EXPANDING AN EXISTING ROADWAY TO PROVIDE FOR A SINGLE LANE ROUNDABOUT AT HOG MOUNTAIN ROAD AND CASH ROAD. THE TOTAL AFFECTED AREA IS 7.48 ACRES. TOTAL NEW CLEARING AREA= 0.24 ACRES. THE TOTAL AMOUNT OF EARTHWORK IS 2,800 CY WITH 2,800 CY IN FILL. THE PROJECT WILL BE AN ASPHALT OVERLAY AND THE CONSTRUCTION OF A ROUNDABOUT.
- EXISTING SITE CONDITIONS: THE TOPOGRAPHY IS FLAT WITH NO TREES OR GRASSY AREAS. THE CURRENT SITE IS AN EXISTING ROADWAY. THE AREA DRAINS FROM EAST TO WEST.
- ADJACENT AREAS: NORTH: McEVER ROAD  
SOUTH: McEVER ROAD  
EAST: LIGHTS FERRY ROAD  
WEST: LIGHTS FERRY ROAD
- CRITICAL AREAS: NO CUT OF FILL SLOPES STEEPER THAN 2:1 ARE ALLOWED. CARE SHALL BE TAKEN TO PROTECT STREAMS AND EXISTING AREAS FROM SEDIMENT INFILTRATION. SPECIAL ATTENTION WILL BE GIVEN TO FILLS OVER 5' IN HEIGHT.
- EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE MINIMUM REQUIREMENTS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE EMPLOYED BY THE CONTRACTOR WHERE DETERMINED NECESSARY BY LOCAL AUTHORITIES OR THE ENGINEER BASED UPON ACTUAL SITE CONDITIONS.
- EROSION CONTROL MEASURES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE DRAWINGS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE DRAINAGE PATTERNS SHOWN ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION.
- PROVISIONS TO PREVENT EROSION OF SOIL FROM SITE SHALL BE, AS A MINIMUM, IN CONFORMANCE WITH THE LATEST REVISION OF THE "MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA."
- FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED.
- IF FINES OR PENALTIES ARE LEVIED AGAINST THE PROPERTY OR THE PROPERTY OWNER BECAUSE OF A LACK OF EROSION OR SEDIMENTATION CONTROL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF SUCH FINES OR PENALTIES, OR THE COST OF SUCH FINES OR PENALTIES SHALL BE DEDUCTED FROM THE CONTRACT AMOUNT.
- ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE OR SITE ONTO PUBLIC ROADWAYS OR INTO STORM DRAINS SHALL BE REMOVED BY THE END OF THE DAY.
- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO DISTURBANCE ACTIVITY SHALL OCCUR OUTSIDE THE LIMITS INDICATED ON THE DRAWINGS.
- CONSTRUCTION ON THE SITE WILL BEGIN WITH INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSIONS. ALL SEDIMENT CONTROL MEASURES WILL BE MAINTAINED UNTIL ALL UPSTREAM DISTURBED GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/PARKING HAVE BEEN PAVED.
- CONTRACTOR SHALL INSPECT AND REPAIR EROSION CONTROL MEASURES DAILY AND BEFORE AND AFTER EACH ANTICIPATED RAINFALL.
- THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT FROM SEDIMENT BARRIERS AND CHECK DAMS WHICH BECOME SILTED ABOVE ONE-HALF OF THEIR ORIGINAL HEIGHT.
- ALL AREAS TO BE PAVED SHALL BE STABILIZED WITH BASE MATERIAL AS SOON AS PRACTICAL. TEMPORARY OR PERMANENT VEGETATIVE STABILIZATION SHALL BE PROVIDED IMMEDIATELY AFTER REACHING FINAL GRADE FOR ALL AREAS NOT TO BE PAVED.
- PERMANENT VEGETATION SHALL BE PROVIDED NO LATER THAN 7 DAYS AFTER GRADING HAS BEEN COMPLETED.
- TEMPORARY MULCHING SHALL BE PROVIDED TO DISTURBED AREAS NOT TO RECEIVE PERMANENT STABILIZATION WITHIN 14 CALENDAR DAYS OF BEING DISTURBED.
- WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE, THE CONTRACTOR SHALL NOT DEPOSIT ANY BUILDING OR OTHER EXCAVATION SPOIL DIRT, CONSTRUCTION TRASH OR DEBRIS, ECT. IN THE DRAINAGE COURSE OR ASSOCIATED FLOOD PLAIN.
- GRADING EQUIPMENT MUST CROSS FLOWING STREAMS BY THE MEANS OF BRIDGING OR CULVERTS, EXCEPT WHEN SUCH METHODS ARE NOT FEASIBLE. ALL STREAM CROSSINGS WILL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION OF THE "MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA."
- DISCHARGE OF STORM-WATER RUN-OFF FROM DISTURBED AREAS TO A STREAM SHALL BE CONTROLLED TO THE EXTENT THAT TURBIDITY OF THE STREAM DOWNSTREAM FROM THE DISCHARGE SHALL NOT EXCEED 25 NEPHELOMETRIC TURBIDITY UNITS HIGHER THAN THE TURBIDITY LEVEL OF THE RECEIVING STREAM IMMEDIATELY UPSTREAM FROM THE STORM-WATER RUN-OFF DISCHARGE AT THE TIME OF SUCH DISCHARGE.
- DISPOSE OF WASTE SOILS AND CLEARED AND GRUBBED MATERIALS OFF-SITE AT A LOCATION SECURED BY THE CONTRACTOR, AND IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
- ALL FILL SLOPES WILL HAVE SILT FENCES AT THE TOE OF SLOPES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED DAILY, AND ANY DEFICIENCIES WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION BY THE ISSUING AUTHORITY.
- SURFACE ROUGHENING (S<sub>u</sub>): ALL CUT AND FILL SLOPES SHALL BE SURFACE ROUGHENED AND VEGETATED WITHIN SEVEN DAYS AFTER GRADING IS COMPLETED.
- THIS SITE DOES CONTAIN STATE WATERS.
- THIS SITE DOES CONTAIN WETLANDS.
- THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING PRACTICES.
- THIS PROPERTY IS NOT LOCATED IN A FLOOD HAZARD AREA AS PER PANEL # 13139C0300 E DATED MARCH 21, 2000.
- THIS PROPERTY IS NOT LOCATED IN A FLOOD HAZARD AREA AS PER PANEL
- STORM WATER MANAGEMENT  
THE EXISTING PERMITTED SITE " APARTMENT PROJECT" HAS PROPOSED STORM WATER MANAGEMNT FACILITIE SPECIFICALLY PERTAINING TO DETENTION. A WATER QUALITY BASIN HAS BEEN PROVIDED ALONH WITH A WATER QUALITY REPORT.



ENGINEERING DIVISION  
HALL COUNTY DEPARTMENT  
OF PUBLIC WORKS  
P.O. DRAWER 1435  
GAINESVILLE, GA 30503  
Phone: 770-531-6800



EROSION CONTROL PLAN  
McEVER ROAD & LIGHTS FERRY ROAD  
ROUNDABOUT IMPROVEMENTS  
HALL COUNTY, GEORGIA

NO.	REVISION	DATE
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2.	Added Sheet	6/15/23

DRAWN BY: F. MILLER  
CHECKED BY: BN  
DATE:



LEVEL II E&S CERT. # 13711  
EXP. DATE 07-19-2024

C-11



**LANDSCAPE PLAN**  
 McEVER ROAD & LIGHTS FERRY ROAD  
 ROUNDABOUT IMPROVEMENTS  
 HALL COUNTY, GEORGIA

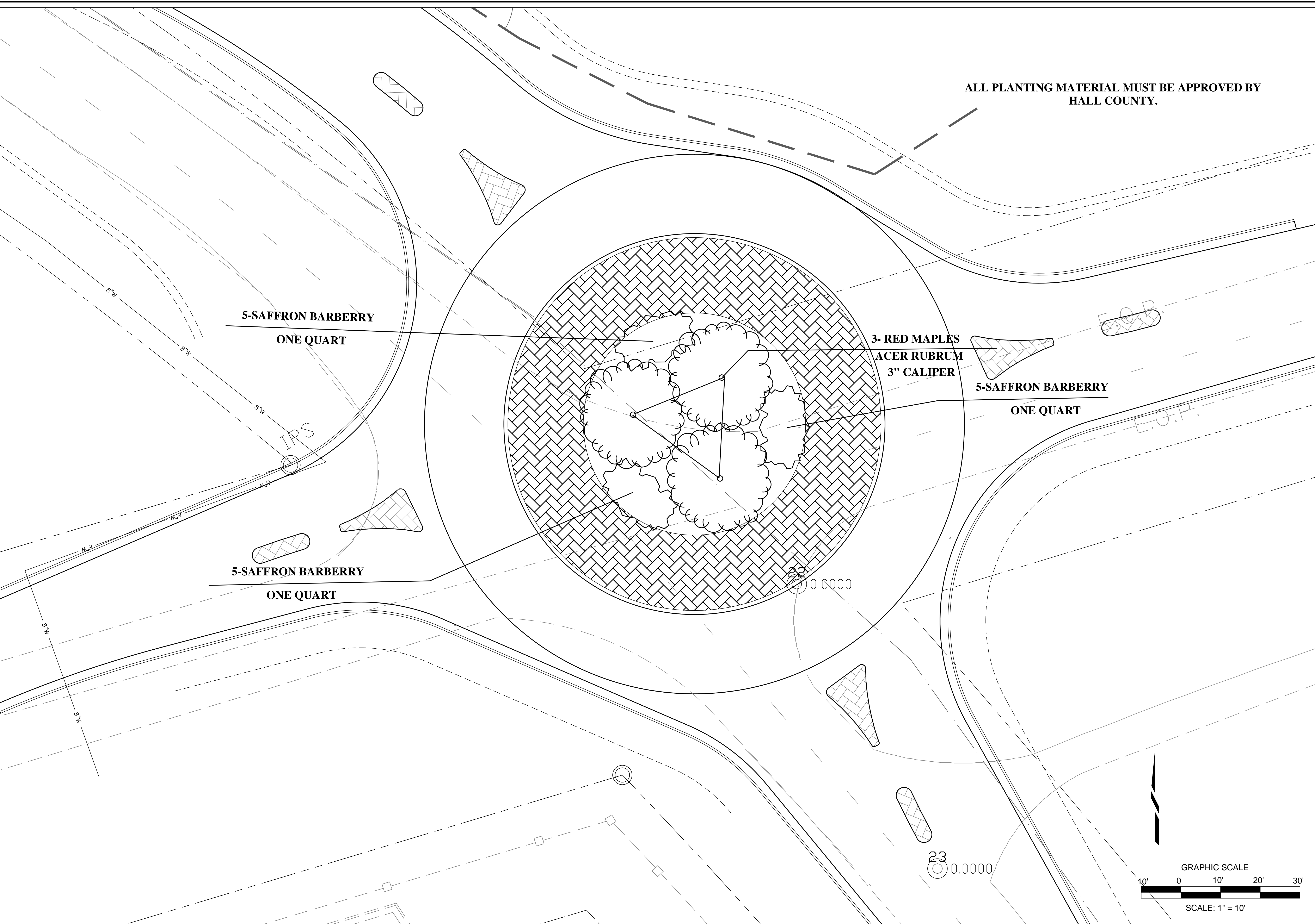
NO.	REVISION	DATE

DRAWN BY: F. MILLER  
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LEVEL II E&S CERT. # 13711  
 EXP. DATE 07-19-2021

ALL PLANTING MATERIAL MUST BE APPROVED BY  
 HALL COUNTY.

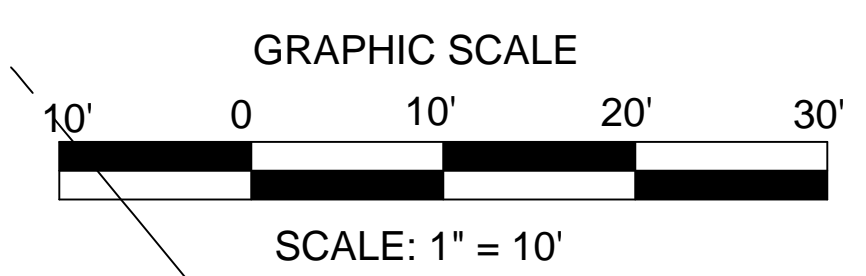


5-SAFFRON BARBERRY  
 ONE QUART

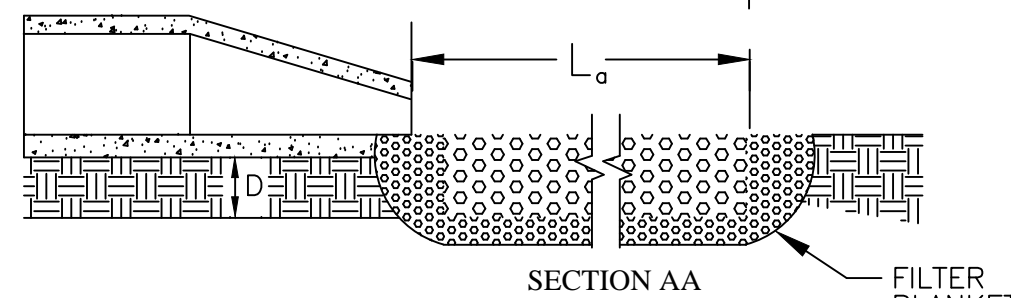
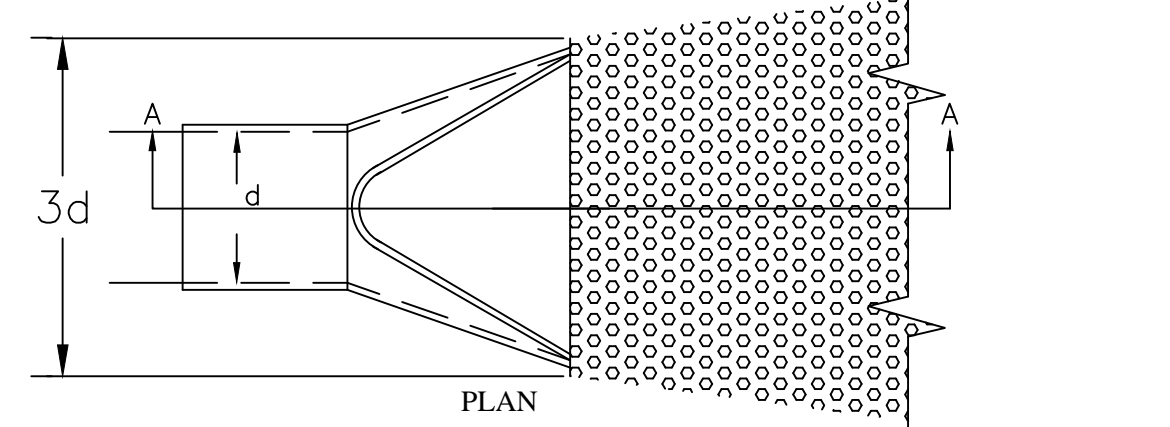
3- RED MAPLES  
 ACER RUBRUM  
 3" CALIPER

5-SAFFRON BARBERRY  
 ONE QUART

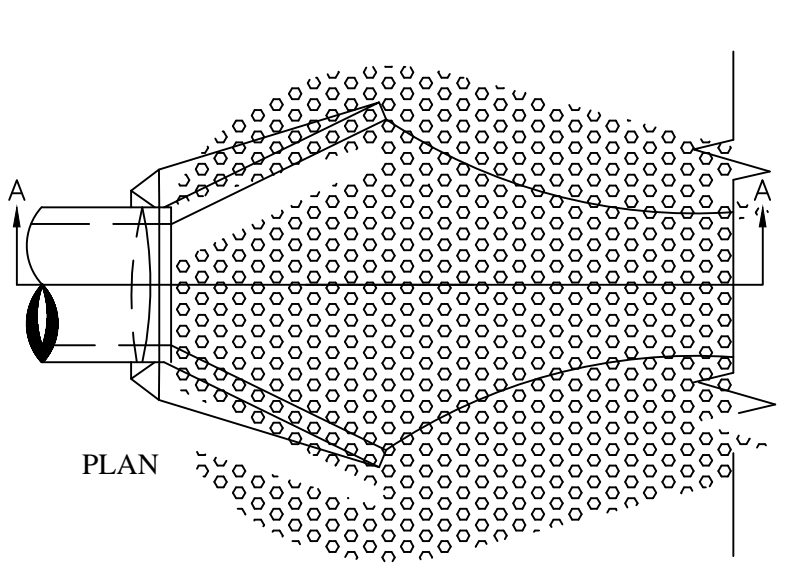
5-SAFFRON BARBERRY  
 ONE QUART



PIPE OUTLET TO FLAT AREA—NO WELL-DEFINED CHANNEL



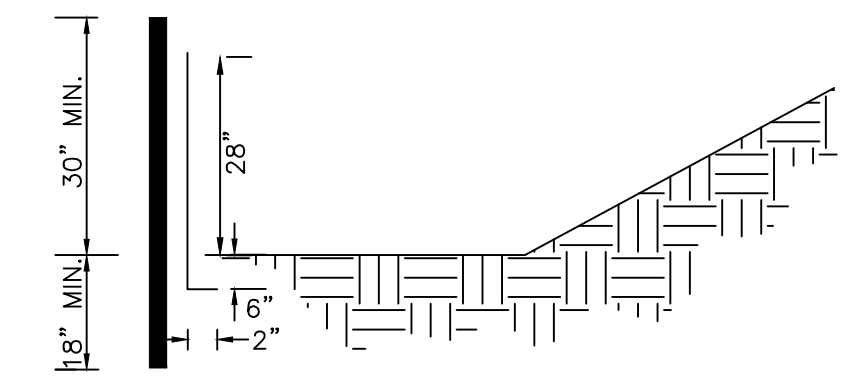
PIPE OUTLET TO WELL-DEFINED CHANNEL



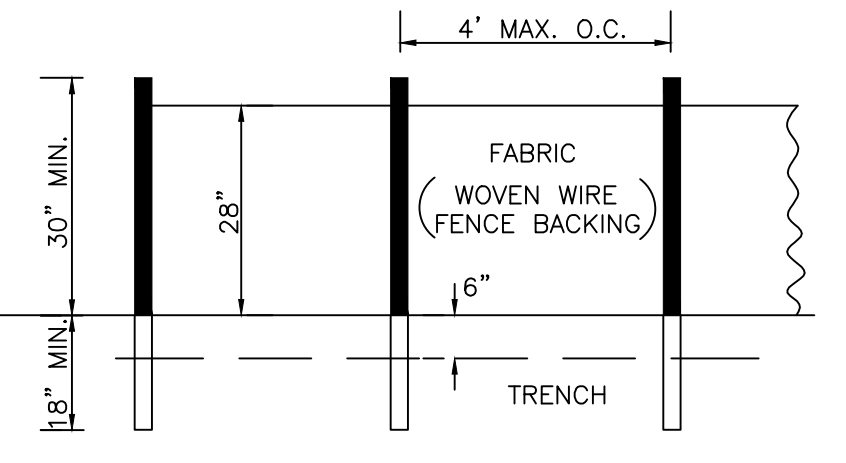
NOTES

1.  $L_a$  IS THE LENGTH OF THE RIPRAP APRON.
2.  $L_a = 6 \times$  DIAMETER OF PIPE (IN FEET)
3.  $d = 1.5$  TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
4. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
5. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

PIPE SIZE		$L_a$ DIMENSIONS	
PIPE SIZE	$L_a$	PIPE SIZE	$L_a$
12"	6'	24"	12'
15"	7.5'	30"	15'
18"	9'	36"	18'
		48"	24'
		60"	30'
		72"	36'
		84"	42'



SIDE VIEW



FRONT VIEW

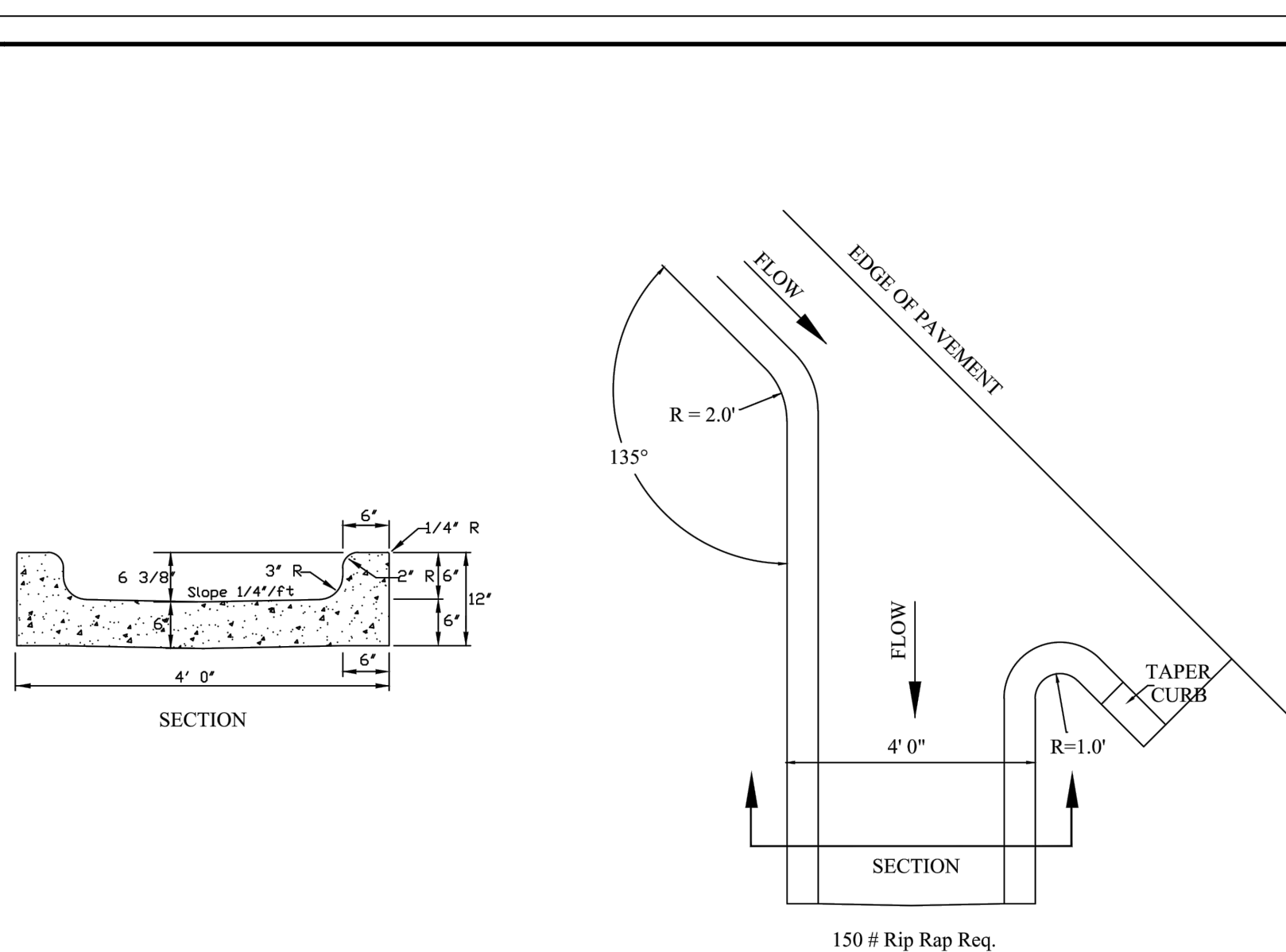
NOTE:  
USE 36" D.O.T. APPROVED FABRIC.  
USE WOODEN OR STEEL POSTS.  
USE WHERE SLOPE GRADIENT IS STEEPER THAN 3:1 AND/OR  
FILL SLOPES EXCEED A VERTICAL HEIGHT OF 20'  
OR AS DIRECTED BY ENGINEER

SILTY FENCE-TYPE C

Sd1

STORM DRAIN OUTLET PROTECTION

St



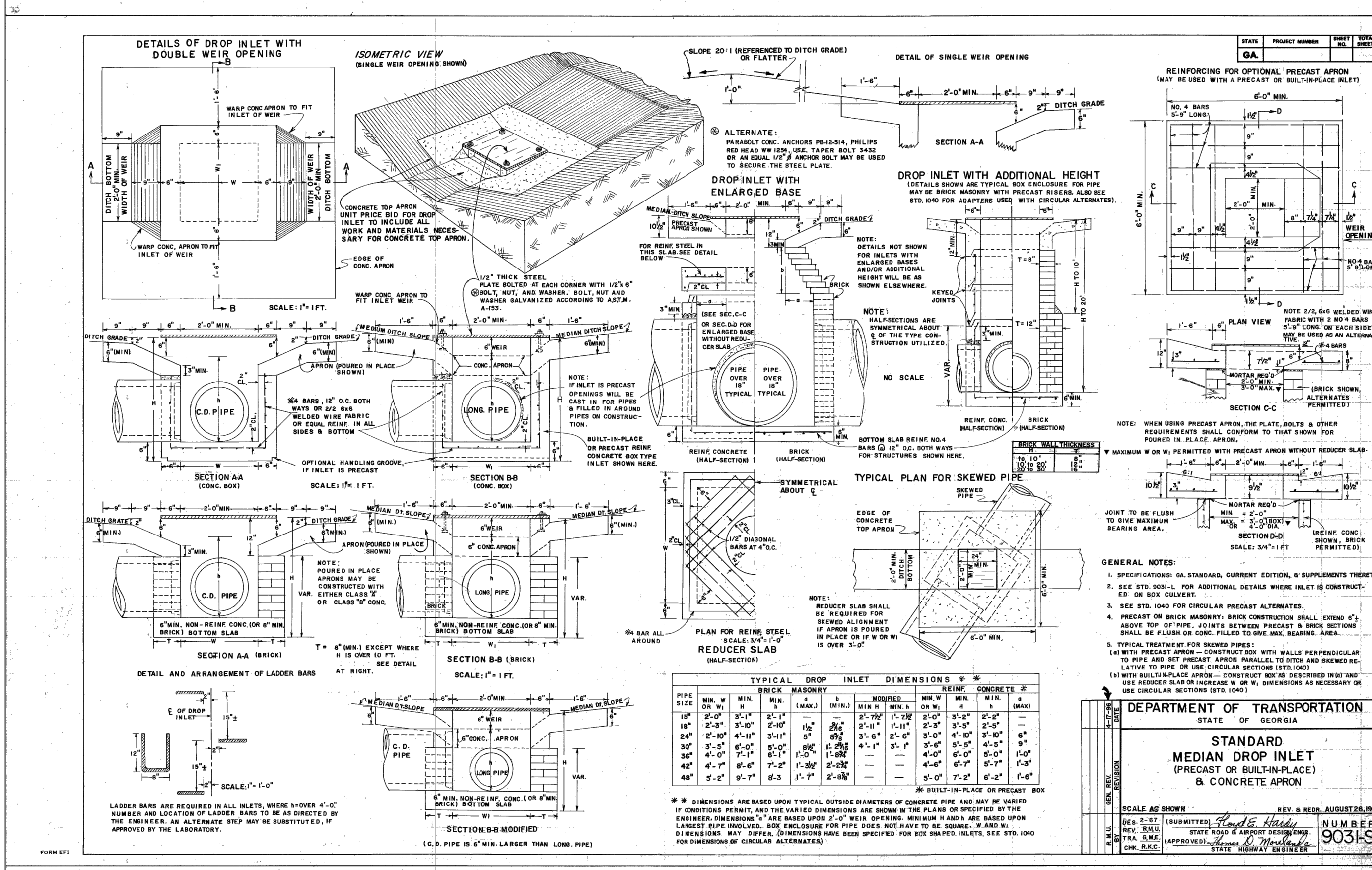
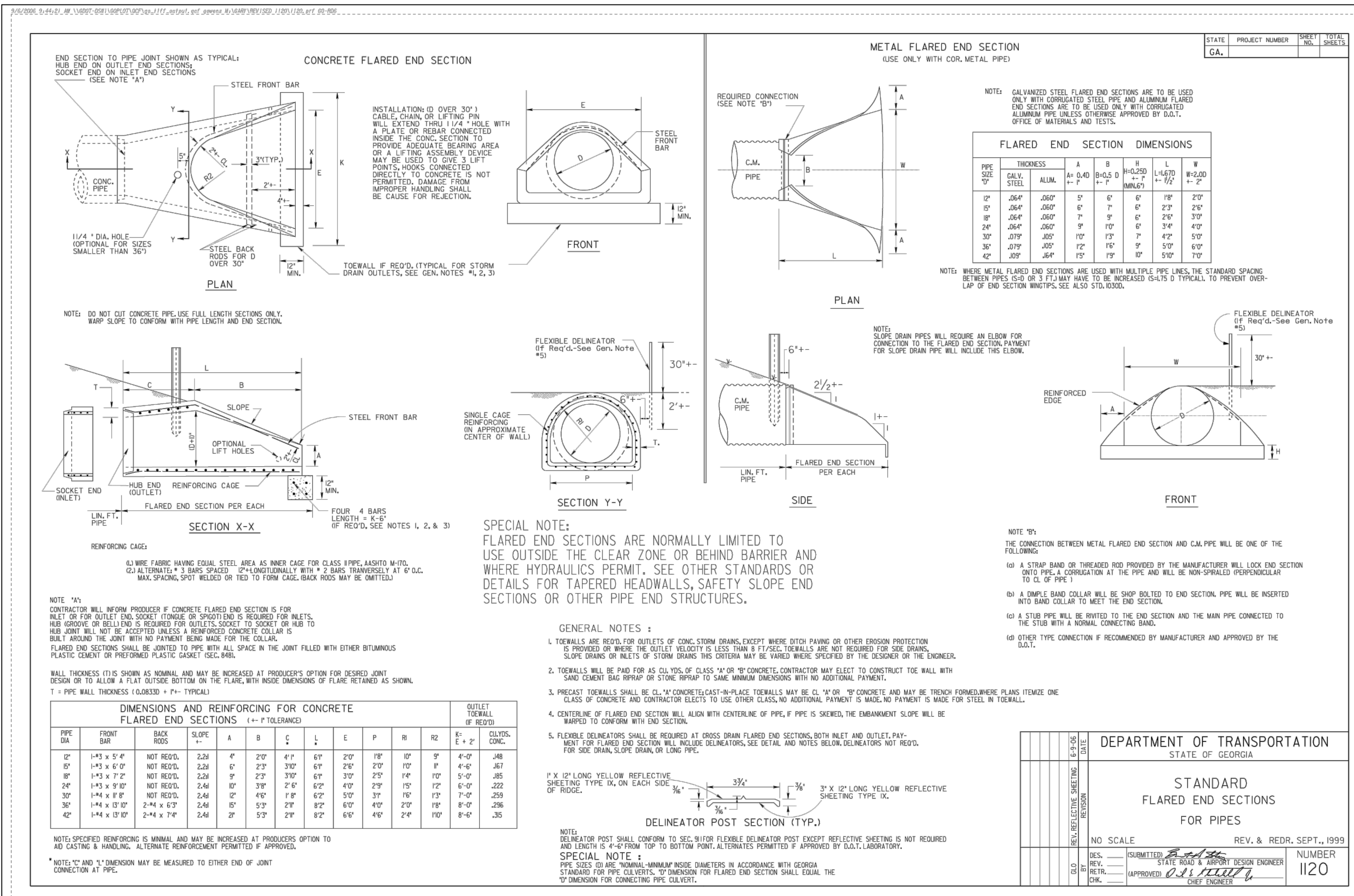
CONCRETE FLUME DETAIL

REVISED:  
JUL-2021



HALL COUNTY PUBLIC WORKS & UTILITIES  
ENGINEERING DIVISION

STANDARD  
SD-7



ENGINEERING DIVISION  
HALL COUNTY DEPARTMENT  
OF PUBLIC WORKS  
P.O. DRAWER 1435  
GAINESVILLE, GA 30503  
Phone: 770-531-6800 Fax: 770-531-3945



DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
STANDARD  
FLARED END SECTIONS  
FOR PIPES  
REV. & REOR. SEPT., 1999  
NUMBER 1120

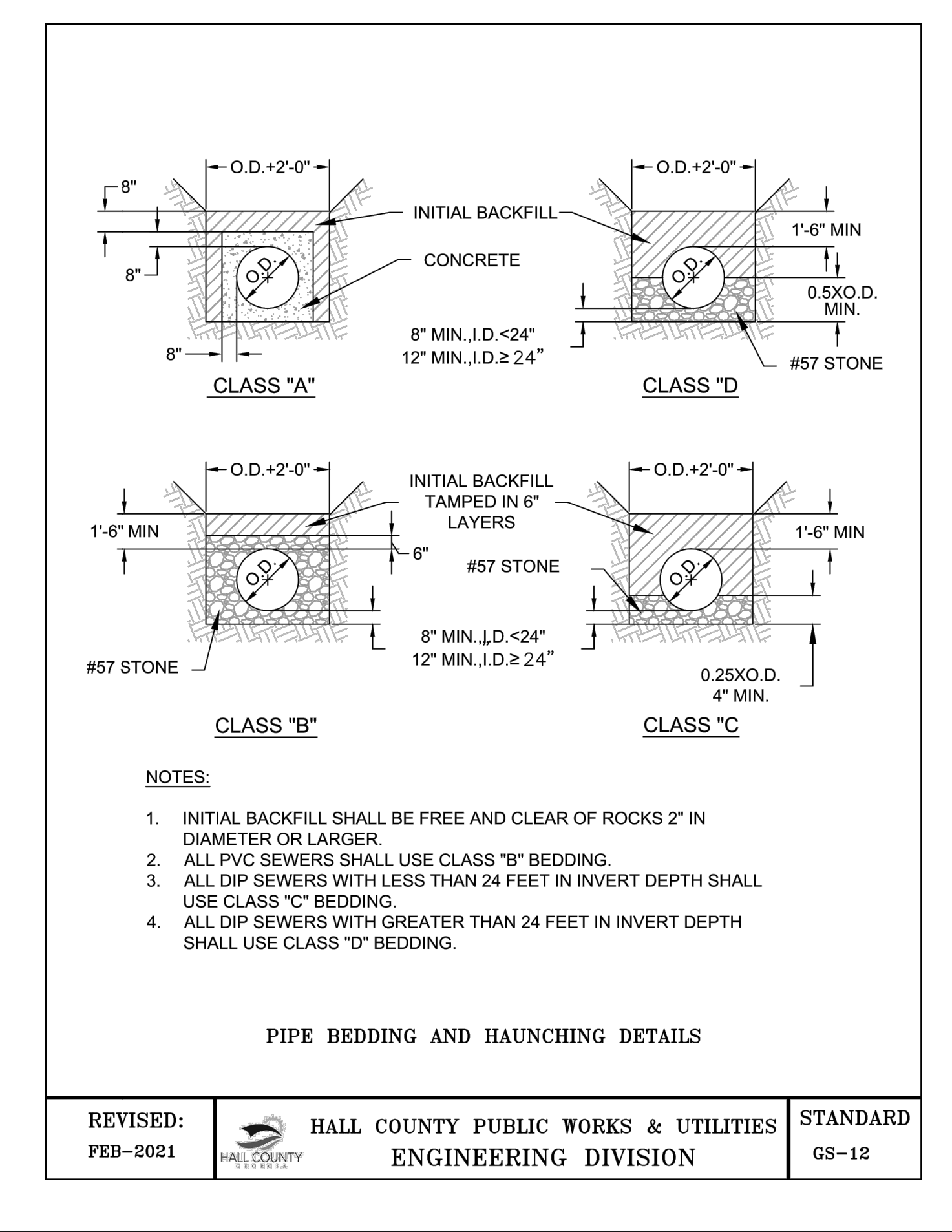
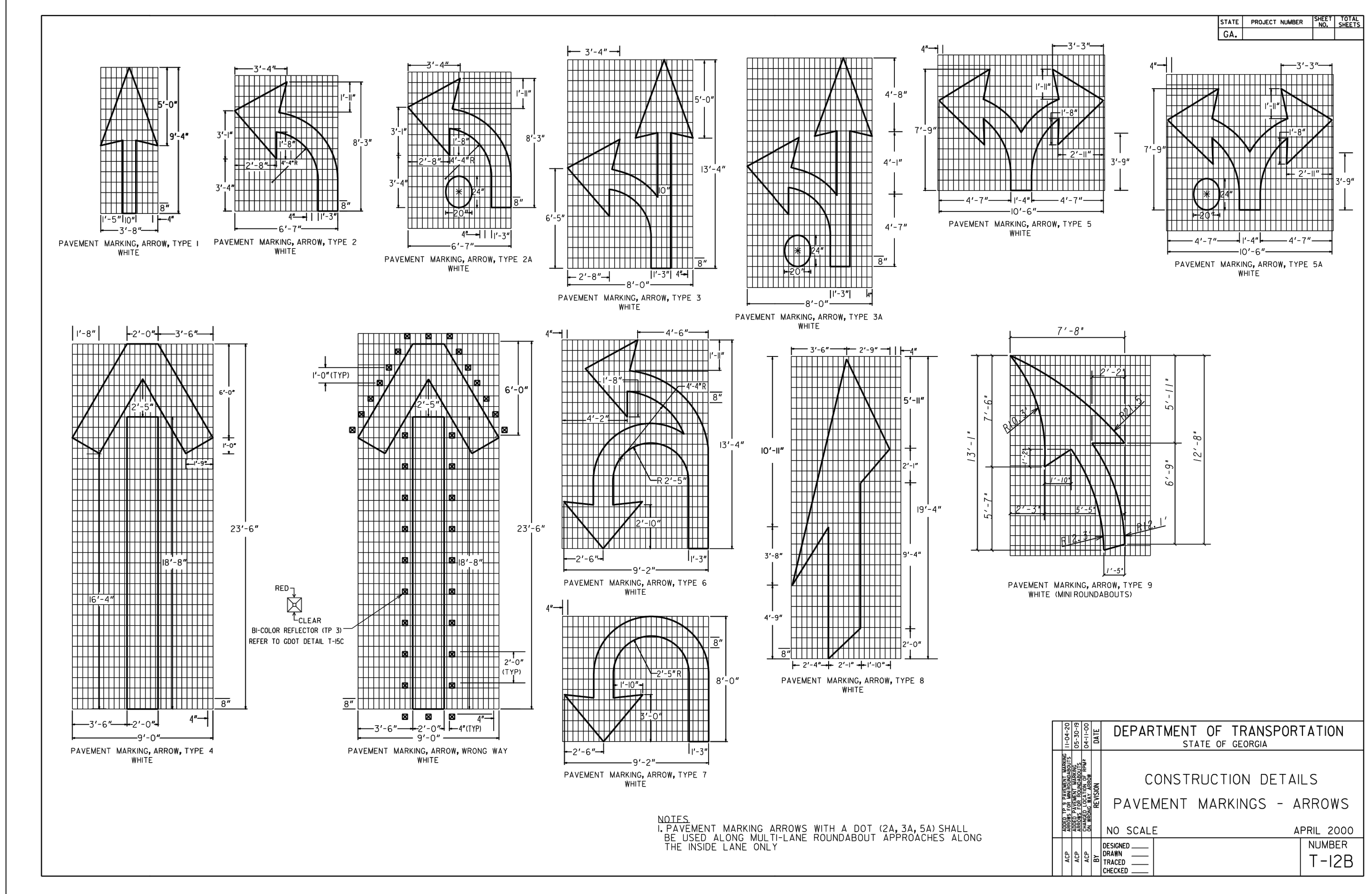
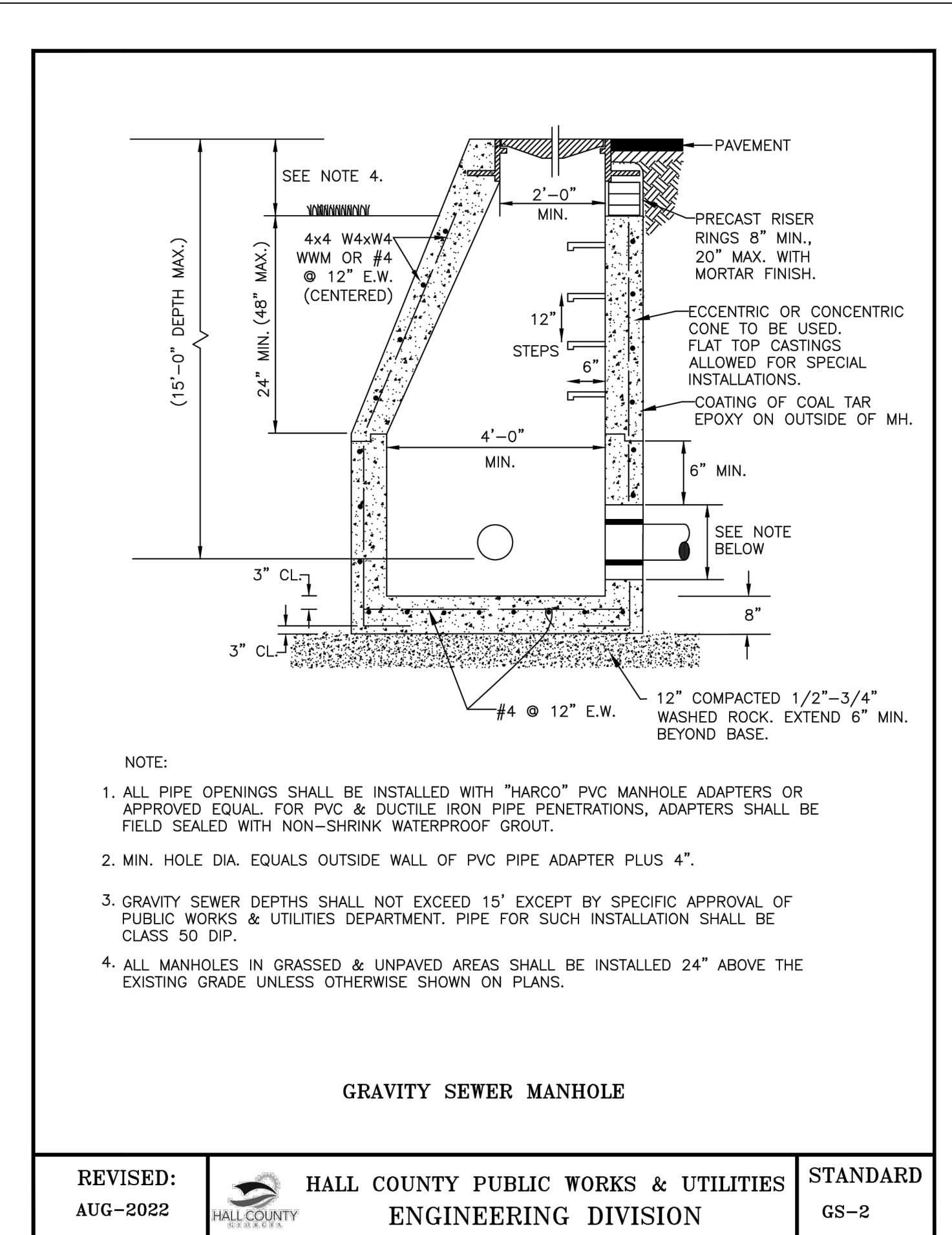
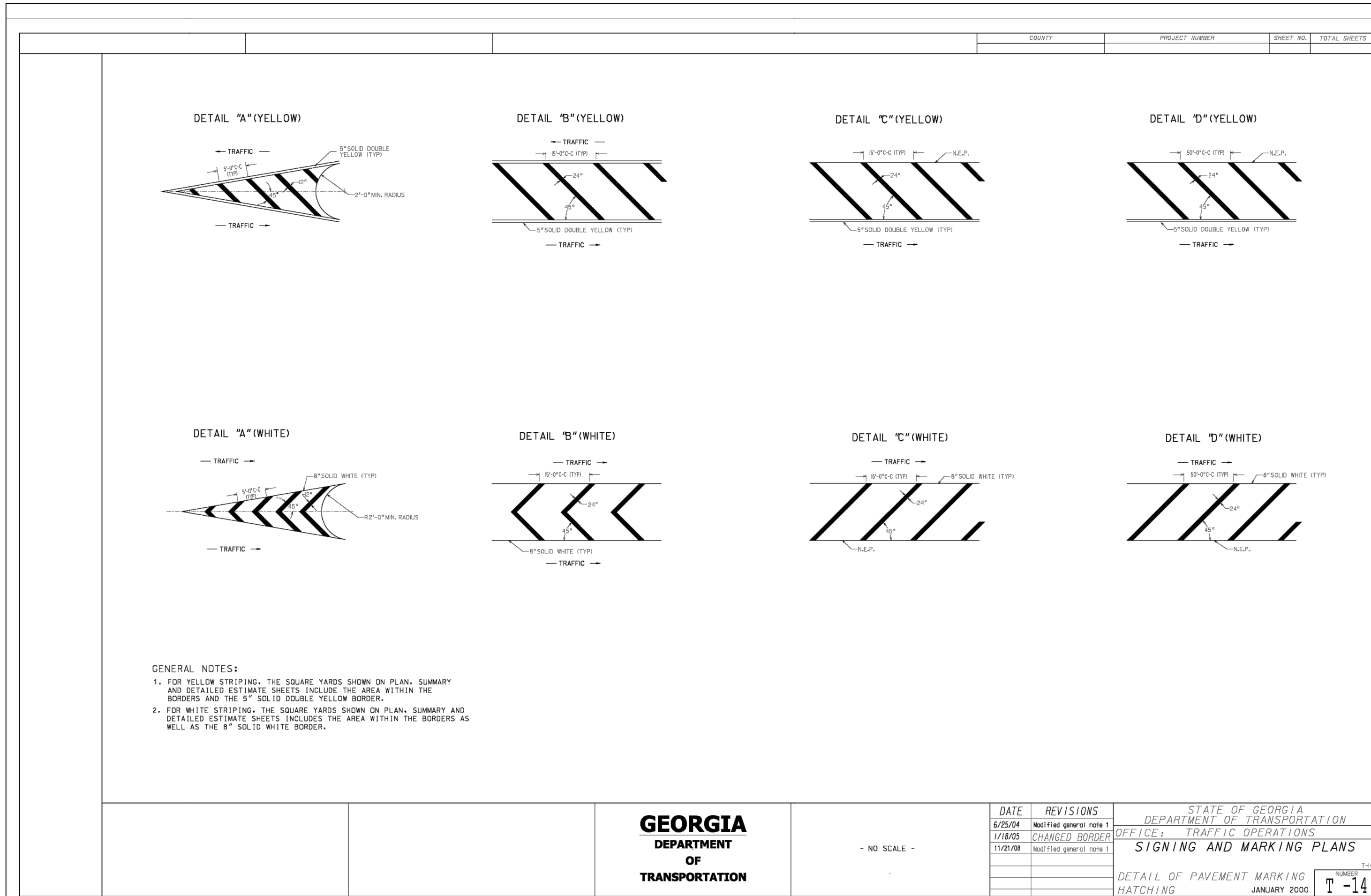
NO. 1  
REVISION 1: Issued for Construction  
2: Added Sheet

DATE 12/11/22  
6/15/23

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**DETAILS**  
**MCEVER ROAD LIGHTS FERRY ROAD**  
**ROUNDABOUT IMPROVEMENT**  
**HALL COUNTY, GEORGIA**

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