

GENERAL NOTES

1. AS-BUILT REQUIRED PRIOR TO FINAL BUILDING INSPECTION
2. THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
3. THE ONLY MATERIAL TO BE BURIED ON-SITE IS VEGETATIVE MATERIAL, PROVIDED IT IS NOT BURIED WITHIN 100' OF ANY PROPERTY LINE OR ENCLOSED STRUCTURE. CONSTRUCTION WASTE MAY NEITHER BE BURNED NOR BURIED AND MUST BE TAKEN TO A STATE APPROVED LANDFILL.
4. ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL AND LOCAL CODES.
5. ALL MATERIALS AND CONSTRUCTION METHODS TO BE IN ACCORDANCE WITH THE FAYETTE COUNTY STANDARDS AND THE GEORGIA DEPARTMENT OF TRANSPORTATION, AS APPLICABLE.
6. DEVIATION FROM THESE PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.
7. CONTRACTOR IS RESPONSIBLE FOR NOTIFICATIONS AND LIAISON WITH UTILITY COMPANIES IN THE PROCESS OF LOCATING, RELOCATION AND TIE-IN TO PUBLIC UTILITIES. ALSO, CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL INSPECTORS, INCLUDING COUNTY AND CITY INSPECTORS PRIOR TO BEGINNING SITE CONSTRUCTION.
8. THERE MAY BE ADDITIONAL UTILITIES THAN THOSE SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS SHOWN AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS AND NECESSARY INVERTS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE DEPARTMENT OF THE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR THE NOTIFICATIONS AND LIAISON WITH UTILITY COMPANIES IN THE PROCESS OF LOCATING, RELOCATING AND TIE-IN TO THE PUBLIC UTILITIES.
9. IF CONTRACTOR DAMAGES ANY EXISTING UTILITIES DURING CONSTRUCTION, HE SHALL, AT HIS OWN EXPENSE, REPLACE OR REPAIR THE UTILITIES TO ORIGINAL CONDITION AND QUALITY, AS APPROVED BY THE ENGINEER AND REPRESENTATIVE OF THE APPROPRIATE UTILITY COMPANY.
10. LAND DISTURBANCE PERMIT TO BE DISPLAYED ON SITE AT ALL TIMES DURING CONSTRUCTION.
11. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IN RIGHT-OF-WAY AND MUST BE STORED WITHIN SITE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A MARKED-UP SET OF DESIGN DRAWINGS SHOWING ALL " AS-BUILT " CONDITIONS. THESE "RECORD DRAWINGS" SHALL BE MADE AVAILABLE TO THE DESIGNER AND/OR THE COUNTY INSPECTOR UPON REQUEST. THE MARK-UPS SHALL BE AT THE SITE AT ALL TIMES AND SHALL BE UTILIZED BY THE CONTRACTOR TO DEVELOP FINAL RECORD DRAWINGS.
13. STUMPS AND CONSTRUCTION DEBRIS SHALL BE DEPOSITED IN A PROPERLY PERMITTED LANDFILL.
14. THIS PROPERTY IS NOT LOCATED IN A 100 YEAR FLOOD HAZARD AREA BASED ON THE FLOOD INSURANCE RATE MAP FOR THIS AREA. THE MAP NUMBER FOR THIS AREA IS 13113C0107E, AND THE DATE OF SAID MAP IS SEPTEMBER 26, 2008. THIS DETERMINATION WAS MADE BY GRAPHICALLY DETERMINING THE POSITION OF THIS SITE ON SAID FIRM MAP UNLESS NOTED OTHERWISE.
15. THE CONTRACTOR SHALL TELEPHONE TOLL FREE 1-800-282-7411 A MINIMUM OF 48 HOURS PRIOR TO THE START OF ANY EXCAVATION AS SHOWN AND NOTED ON THE PLANS FOR A UTILITY LOCATION SERVICE.
16. ALL APPROPRIATE SITE WORK SHALL CONFORM TO ADA STANDARDS.

Date	Time	Location	Weather	Remarks

LOCATION MAP (NTS)

HEWELL RD

PROJECT AREA

FAYETTE COUNTY

Google

N

THIS PROPERTY IS NOT LOCATED IN A 100 YEAR FLOOD HAZARD AREA BASED ON THE FLOOD INSURANCE RATE MAP FOR THIS AREA. THE MAP NUMBER FOR THIS AREA IS 13113C00107E AND THE DATE OF SAID MAP IS SEPTEMBER 26, 2008.

REQUIRED ENGINEER'S INSPECTION

AS PER THE GEORGIA DEPARTMENT OF NATURAL RESOURCES ENVIRONMENTAL PROTECTION DIVISION, NPDES GENERAL PERMITS FOR CONSTRUCTION ACTIVITY GARI00001, GARI00002, & GARI00003: PART IV, A., 7. REQUIRES THE EROSION CONTROL PLAN DESIGN PROFESSIONAL TO MAKE A SITE INSPECTION FOR STAND ALONE PROJECTS THAT BEGIN CONSTRUCTION ACTIVITY AFTER THE EFFECTIVE DATE OF THIS PERMIT. THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN, EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE CONTROL MEASURES (BMP'S) WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER THE INITIAL CONSTRUCTION ACTIVITIES COMMENCE. FOR CONSTRUCTION ACTIVITIES WHERE CONSTRUCTION BEGAN ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THE INSPECTION IS TO OCCUR WITHIN SEVEN (7) DAYS AFTER THE PLAN HAS BEEN IMPLEMENTED. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMP'S HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.



PROJECT INFORMATION	
FAYETTE COUNTY FIRE & EMS TRAINING FACILITY	
ADDRESS: 340 HEWELL ROAD JONESBORO, GA 30238	
LAND LOTS 172 OF THE 01 DISTRICT FAYETTE COUNTY, GEORGIA	
TOTAL AREA: 23.94 ACRES DISTURBED AREA: 8.3 ACRES	
OWNER:	
NAME: FAYETTE COUNTY	
ADDRESS: 155 JOHNSON AVENUE FAYETTEVILLE, GA 30214	
CONTACT: JEFFREY HILL	
PHONE: (404)- 569- 8701	
FAYETTE COUNTY FIRE & EMS TRAINING FACILITY	
DESIGN PHASE	
LAND LOT(S) 172 OF THE 01 DISTRICT, 5TH SECTION FAYETTE COUNTY, GA	
CROY	
200 NORTH COBB PARKWAY, BLDG. 400, SUITE 415 MARIETTA, GA 30062	
PHONE: (770) 971-5407 FAX: (770) 971-0620	
THESE PLANS HAVE BEEN PREPARED BY THE ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, AND/OR OTHER PROFESSIONAL PERSONS WHOSE NAMES ARE SET FORTH HEREON. THE ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, AND/OR OTHER PROFESSIONAL PERSONS HAVE REVIEWED THESE PLANS AND HAVE FOUND THEM TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FAYETTE COUNTY BOARD OF ALTERNATE DISCIPLINES. THE ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, AND/OR OTHER PROFESSIONAL PERSONS HAVE REVIEWED THESE PLANS AND HAVE FOUND THEM TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FAYETTE COUNTY BOARD OF ALTERNATE DISCIPLINES. THE ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, AND/OR OTHER PROFESSIONAL PERSONS HAVE REVIEWED THESE PLANS AND HAVE FOUND THEM TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FAYETTE COUNTY BOARD OF ALTERNATE DISCIPLINES.	
Plot Scale: 1"= 400'	
Drawing Location: 0.00' Plot Scale: 1"= 400'	
Date: 10/28/2022, 2:08 AM	
Notes & Details.dwg	

ADDRESS: 340 HEWELL ROAD
JONESBORO, GA 30238
LAND LOTS 172 OF THE 01 DISTRICT
FAYETTE COUNTY, GEORGIA

TOTAL AREA: 23.94 ACRES
DISTURBED AREA: 8.3 ACRES

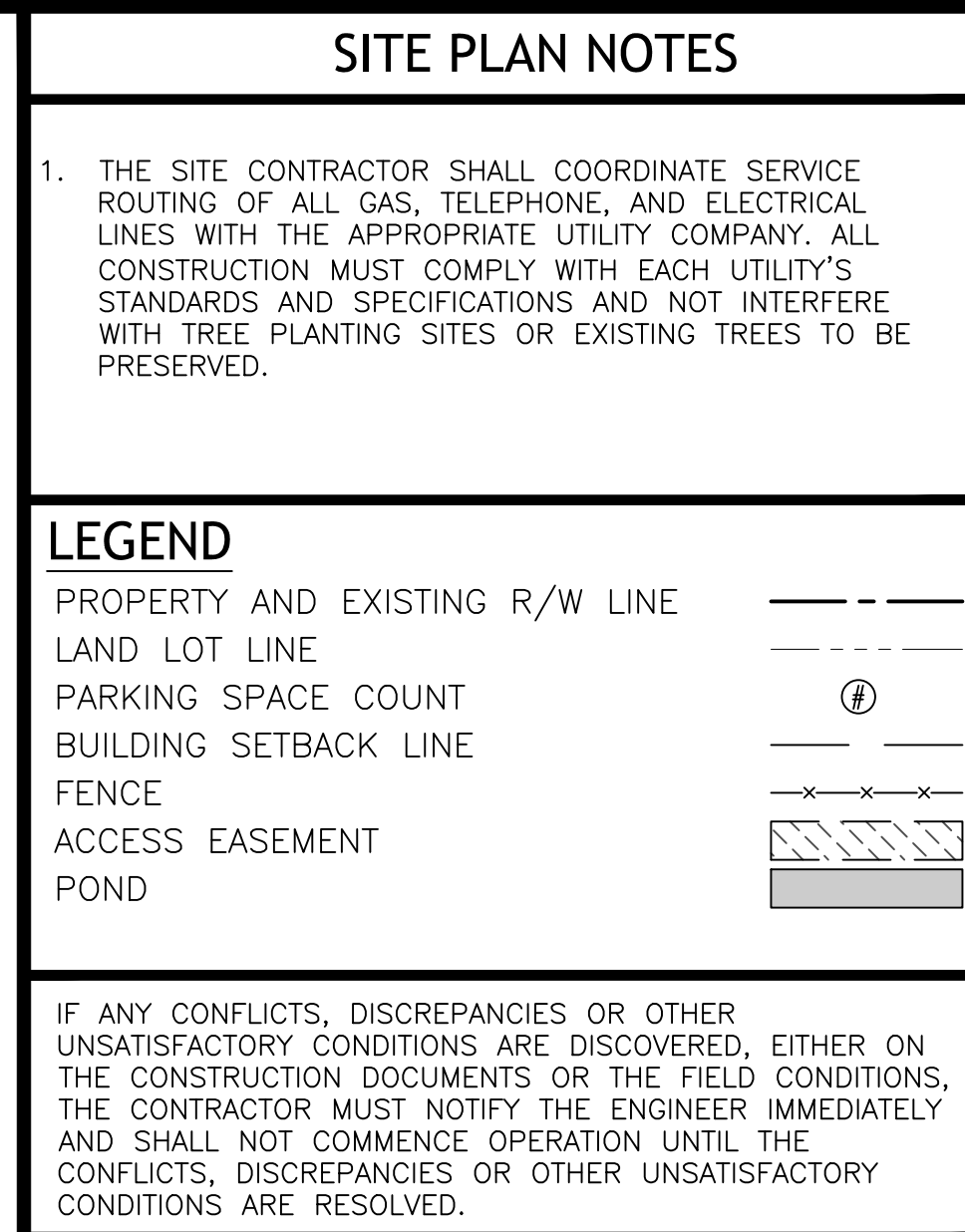
NAME: FAYETTE COUNTY
ADDRESS: 155 JOHNSON AVENUE
FAYETTEVILLE, GA 30214
CONTACT: JEFFREY HILL
PHONE: (404)- 569- 8701

SHEET INDEX				
SHEET	DRAWING NAME	SHEET NAME	PLAN DATE	LAST REVISED
1	C-000	COVER SHEET	10/28/2022	
2	C-100	EXISTING CONDITIONS	10/28/2022	
3	C-200	SITE PLAN	10/28/2022	
4	C-201	SITE PLAN	10/28/2022	
5	C-202	PAVING PLAN	10/28/2022	
6	C-300	GRADING AND DRAINAGE PLAN	10/28/2022	
7	C-301	GRADING AND DRAINAGE PLAN	10/28/2022	
8	C-302	DRAINAGE PROFILES	10/28/2022	
9	C-303	DRAINAGE PROFILES	10/28/2022	
10	C-304	STORMWATER MANAGEMENT PLAN	10/28/2022	
11	C-400	UTILITY PLAN	10/28/2022	
12	C-401	SEPTIC FIELD PLAN	10/28/2022	
13	C-500	CONSTRUCTION DETAILS	10/28/2022	
14	C-501	CONSTRUCTION DETAILS	10/28/2022	
15	C-502	CONSTRUCTION DETAILS	10/28/2022	
16	C-503	CONSTRUCTION DETAILS	10/28/2022	
17	C-504	CONSTRUCTION DETAILS	10/28/2022	
18	C-505	CONSTRUCTION DETAILS	10/28/2022	
19	ER-000	EROSION CONTROL COVER SHEET	10/28/2022	
20	ER-001	EROSION CONTROL NOTES	10/28/2022	
21	ER-100	EROSION CONTROL PLAN - INITIAL PHASE	10/28/2022	
22	ER-200	EROSION CONTROL PLAN - INTERMEDIATE PHASE	10/28/2022	
23	ER-300	EROSION CONTROL PLAN - FINAL PHASE	10/28/2022	
24	ER-400	EROSION CONTROL DETAILS	10/28/2022	
25	ER-401	EROSION CONTROL DETAILS	10/28/2022	



LAND LOT(S) 172
OF THE 01 DISTRICT, 5TH SECTION
FAYETTE COUNTY, GA

Drawing Location: P:\Marietta\1866 Fayette County\1866.031 Task Order 32 - Fire and EMS Training Facility\Engineering\Design\1866.031 Cover Notes & Details.dwg



CROY

200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
MARIETTA, GA 30062

PHONE: (770) 971-5407 FAX: (770) 971-0620

THESE PLANS AND DRAWINGS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER
WITHOUT OUR WRITTEN PERMISSION. THE EXPRESS WRITTEN PERMISSION AND CONSENT OF CROY
ENGINEERING, LLC, IS REQUIRED FOR THE USE ASSIGNED TO ANY PARTY WITHOUT WRITTEN PERMISSION AND CONSENT.

FAYETTE COUNTY FIRE & EMS TRAINING FACILITY

DESIGN PHASE
LAND LOT(S) 172
OF THE 01 DISTRICT, 5TH SECTION
FAYETTE COUNTY, GA

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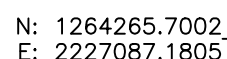
SHEET TITLE
SITE PLAN

DRAWN BY ORG	CHECKED BY SMM
SCALE 1"=40'	ISSUE DATE 10/28/2022

PROJECT NUMBER
1866.031

DRAWING NUMBER
C-200

SHEET 3 of 25

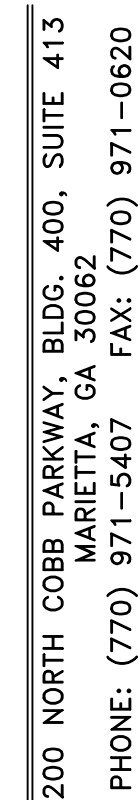


BEGIN 24"X6"
CURB & GUTTER

1. THE SITE CONTRACTOR SHALL COORDINATE SERVICE ROUTING OF ALL GAS, TELEPHONE, AND ELECTRICAL LINES WITH THE APPROPRIATE UTILITY COMPANY. ALL CONSTRUCTION MUST COMPLY WITH EACH UTILITY'S STANDARDS AND SPECIFICATIONS AND NOT INTERFERE WITH TREE PLANTING SITES OR EXISTING TREES TO BE PRESERVED.

PROPERTY AND EXISTING R/W LINE
LAND LOT LINE
PARKING SPACE COUNT
BUILDING SETBACK LINE
FENCE
ACCESS EASEMENT
POND

IF ANY CONFLICTS, DISCREPANCIES OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE OPERATION UNTIL THE CONFLICTS, DISCREPANCIES OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.



PHONE: (770) 971-3407 FAX: (770) 971-0620

Plot Scale: 1"=40', Drawing Rotation: 0.0°, Plot Style: Design.ctb, Plotted By: Chris Wollie on 10/28/2022, 8:08 AM

DESIGN PHASE

LAND LOT(S) 172
OF THE 01 DISTRICT, 5TH SECTION
FAYETTE COUNTY, GA

NO.	REVISION REFERENCE	DATE
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GSWCC CERT #78081

SHEET TITLE
SITE PLAN

DRAWN BY ORG	CHECKED BY SMM
SCALE 1"=40'	ISSUE DATE 10/28/202

PROJECT NUMBER

DRAWING NUMBER

C-201

SHEET 4 of 25

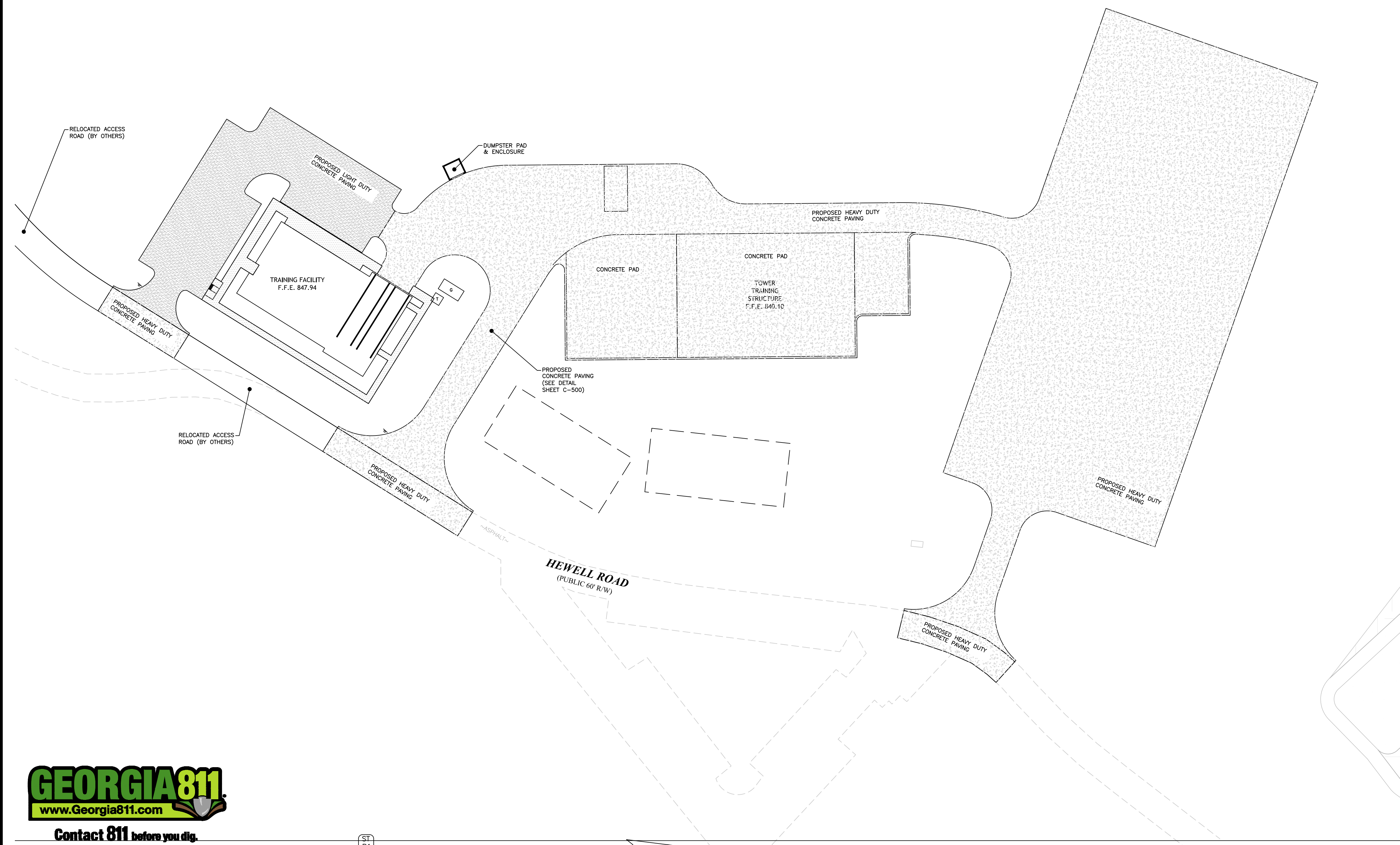


24 HOUR CONTACT:
JEFFREY HILL
TEL: (404) 569-8701



Drawing Location: P:\Marietta\1866 Fayette County\1866.031 Task Order 32 - Fire and EMS Training Facility\Engineering\Design\1866.031_Plan.dwg

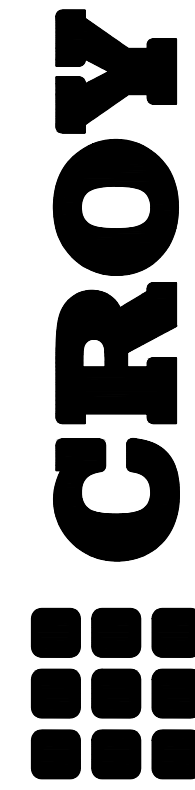
NOT ISSUED FOR CONSTRUCTION



SITE PLAN NOTES

LEGEND

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FAYETTE COUNTY FIRE & EMS TRAINING FACILITY

LAND LOT(S) 172
OF THE 01 DISTRICT, 5TH SECTION
FAYETTE COUNTY, GA

NO.	REVISION REFERENCE	DATE

SEAL

GSWCC CERT #78081

SHEET TITLE
PAVING PLAN

DRAWN BY ORG	CHECKED BY SMM
SCALE 1"=50'	ISSUE DATE 10/28/2022

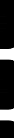
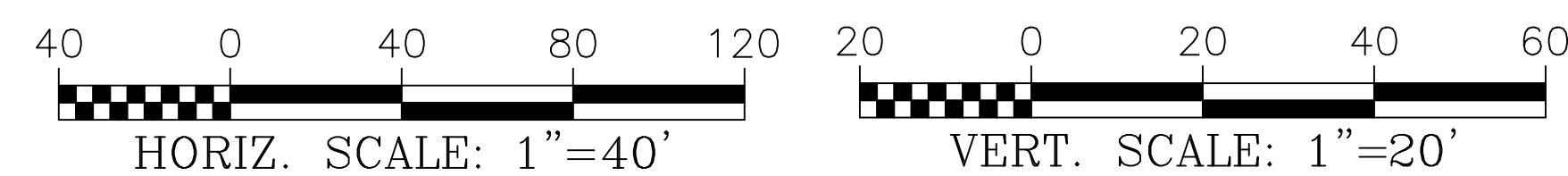
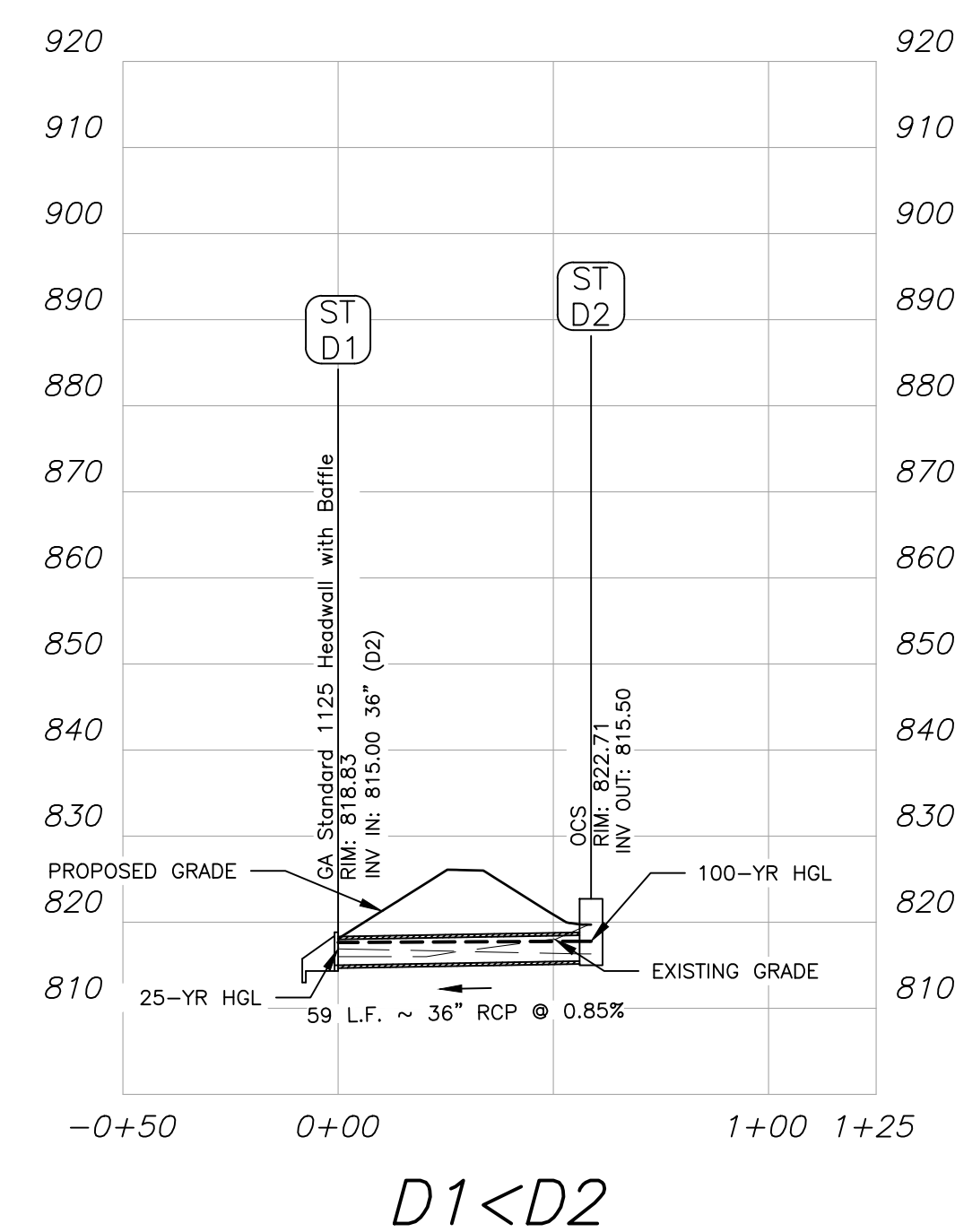
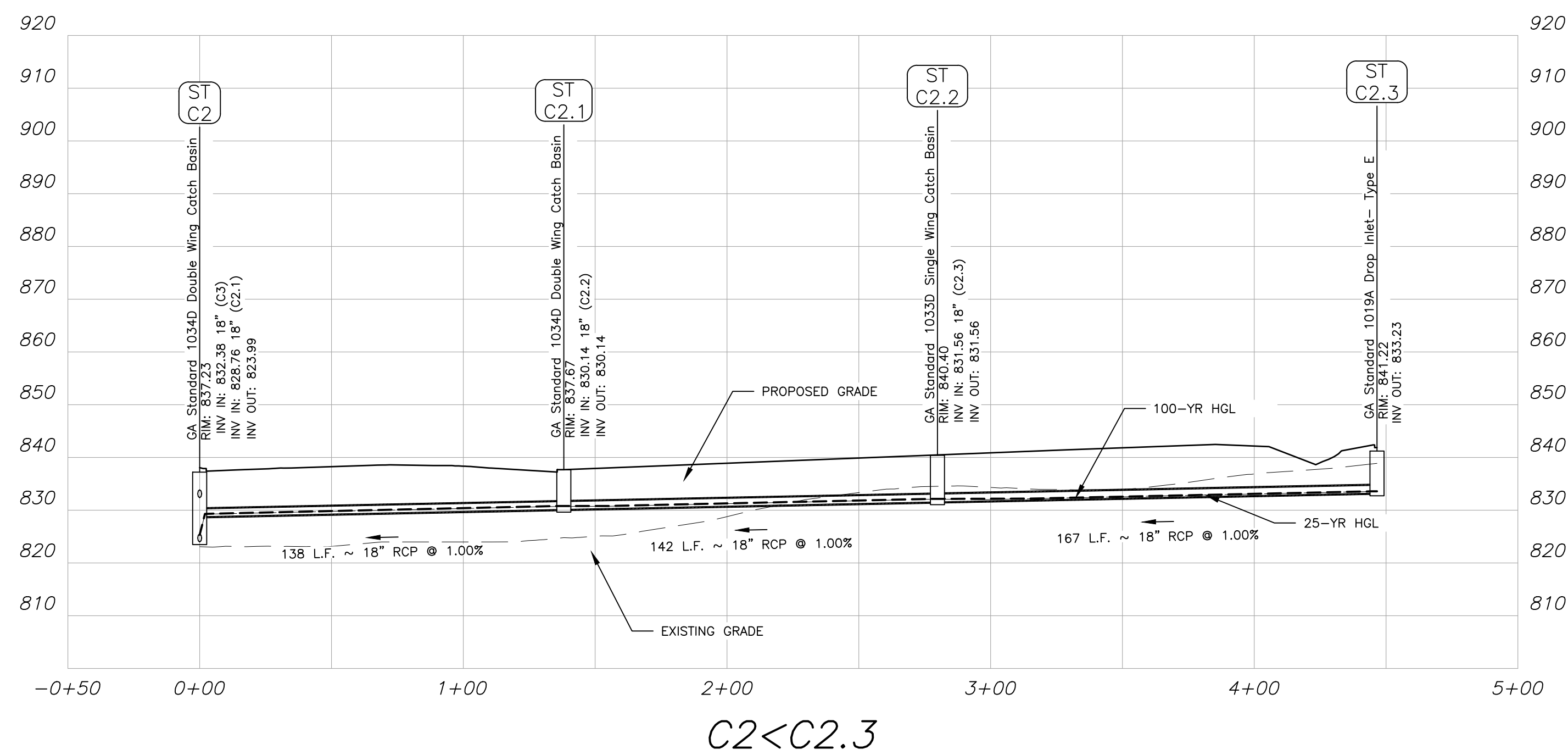
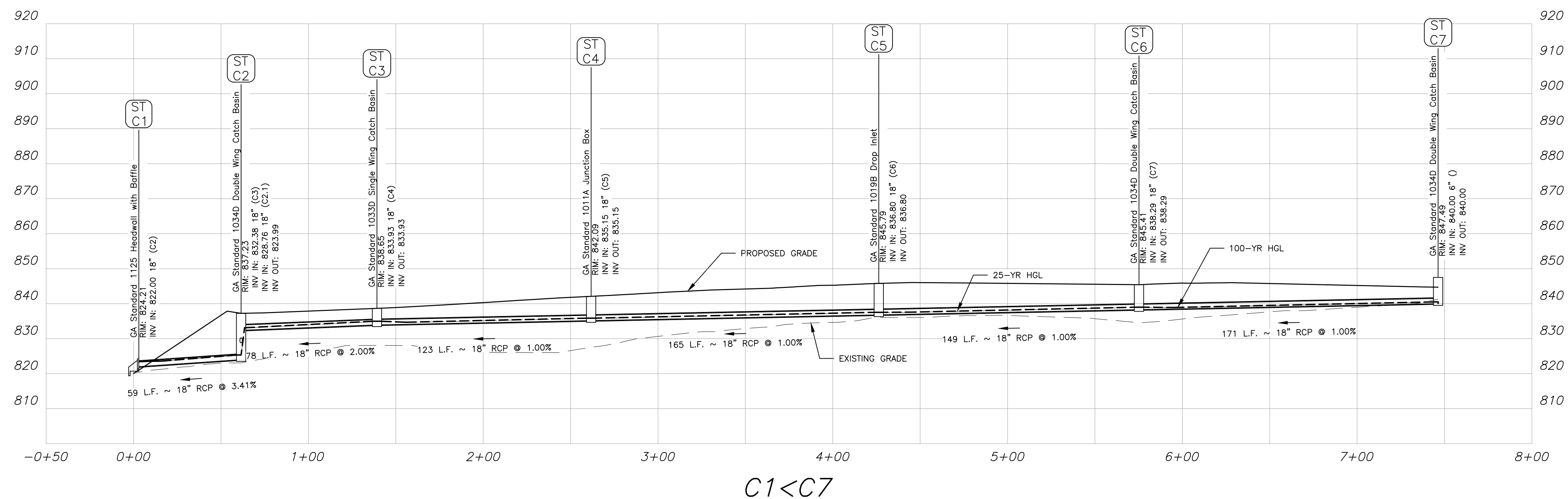
PROJECT NUMBER
1866.031

DRAWING NUMBER

C-202
SHEET 5 of 25

Prawing Location: P:\Marietta\1866 Fayette County\1866.031 Task Order 32 - Fire and EMS Training Facility\Engineering\Design\1866.031_Plan.dwg

NOT ISSUED FOR CONSTRUCTION



2200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
MARIETTA, GA 30062
PHONE: (770) 971-5407 FAX: (770) 971-0620

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FAYETTE COUNTY FIRE & EMS TRAINING FACILITY

DESIGN PHASE

LAND LOT(S) 172
OF THE 01 DISTRICT, 5TH SECTION
FAYETTE COUNTY, GA

NOT ISSUED FOR CONSTRUCTION

NO.	REVISION REFERENCE	DATE

SEAL



GSWCC CERT #78081

SHEET TITLE
DRAINAGE PROFILES

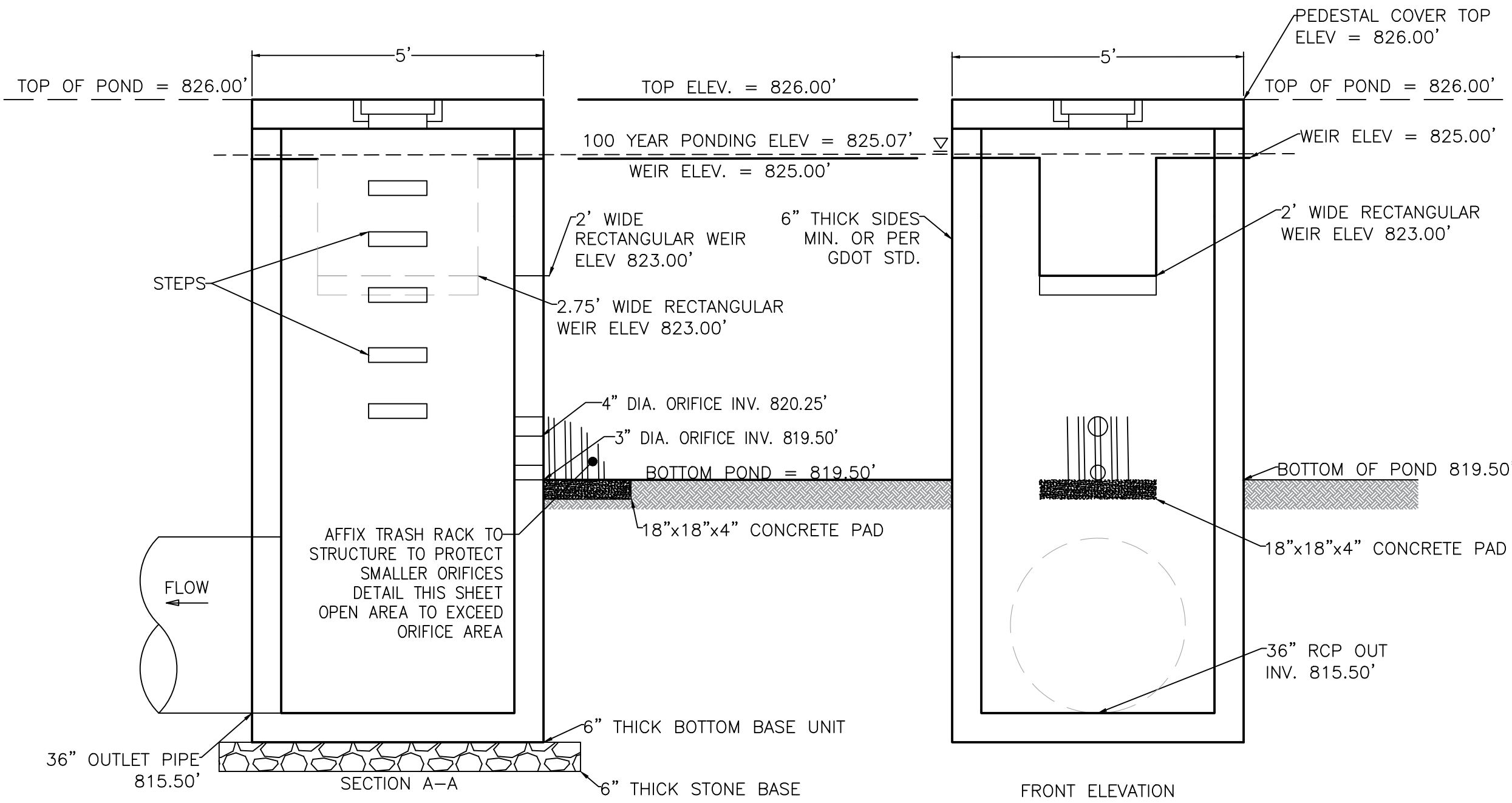
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SCALE 1"=40'	ISSUE DATE 10/28/2022

PROJECT NUMBER
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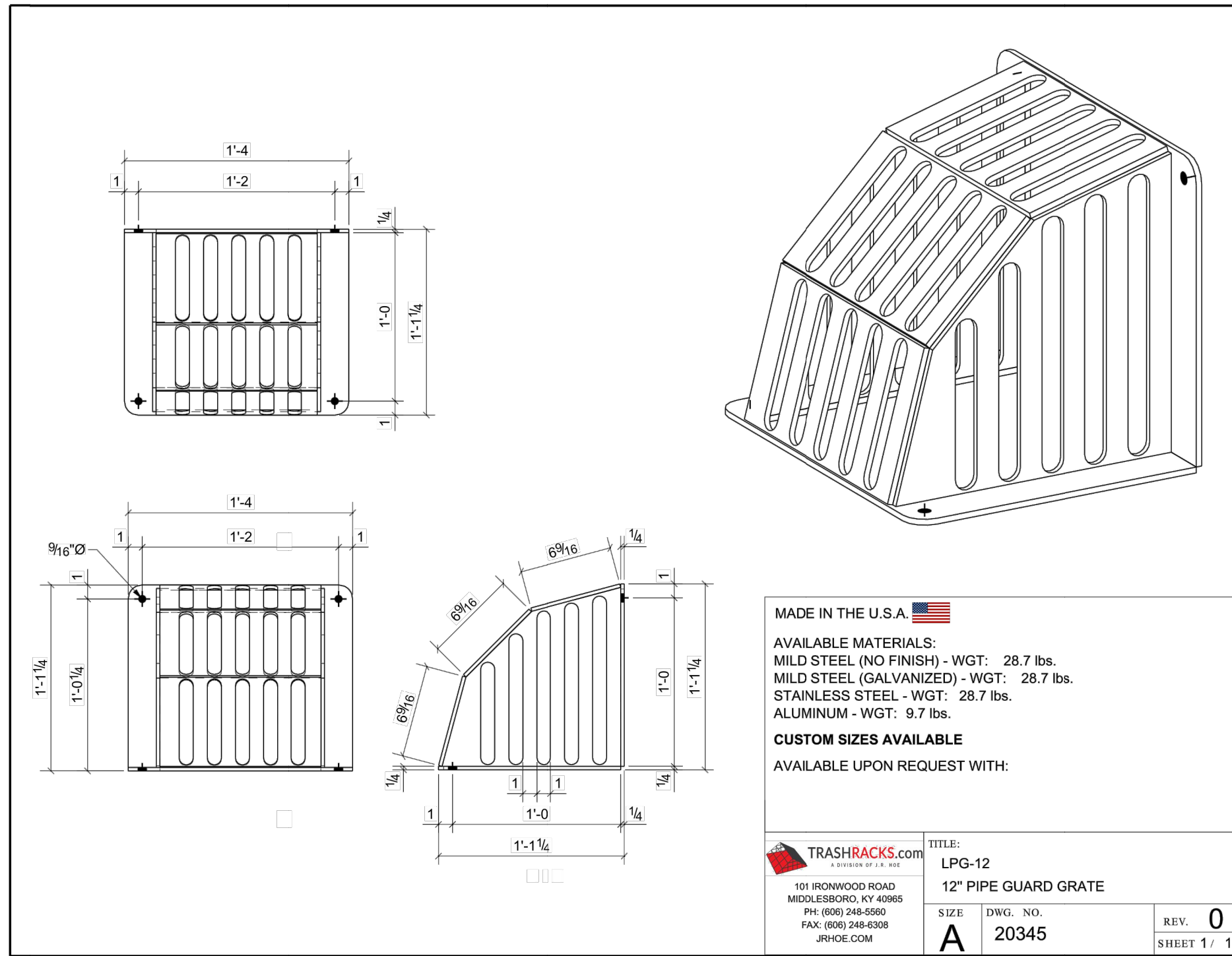
DRAWING NUMBER

C-302

SHEET 8 of 25



STORMWATER POND
OUTLET CONTROL STRUCTURE D1 (RECTANGULAR BOX)
NTS



STORM WATER NOTES

BUOYANCY CALCULATIONS

VOLUME OF STRUCTURE ABOVE GROUND
 $826' - 819.5' = 6.5'$
 $6.5' \times 5' \times 5' = 162.5 \text{ CF}$

BOUANCY OF WATER
 $62.4 \text{ LB/CF} \times (162.5 \text{ CF}) = 10,140 \text{ LB}$

VOLUME OF CONCRETE minus orifices
 $825' - 815.5' = 9.5'$
 $[9.5' \times 5' \times 5'] - [9.5' \times 4' \times 4'] = 85.5 \text{ CF}$
 $85.5 \text{ CF} + [5' \times 5' \times 0.5' \times 2'] + [0.5' \times 0.5' \times 0.5' \times 4'] = 111 \text{ CF}$
 $111 \text{ CF} - [\pi \times (0.16')^2 \times 0.5'] = 110.96 \text{ CF}$
 $110.96 \text{ CF} - [\pi \times (0.125')^2 \times 0.5'] = 110.94 \text{ CF}$
 $110.94 \text{ CF} - [1.5' \times 0.5'] = 107.41 \text{ CF}$
 $107.41 - [2 \times 4.75] = 97.91$

WEIGHT OF STRUCTURE
 $97.91 \text{ CF} \times 150 \text{ LB/CF} = 14,685 \text{ LB}$

WEIGHT OF CONCRETE SLUMP REQUIRED
 $14,685 \text{ LB} < 10,140 \text{ LB}$ THEREFORE STRUCTURE NOT BOUYANT

LEGEND

PROPERTY AND EXISTING R/W LINE
LAND LOT LINE
BUILDING SETBACK LINE
FENCE
LIMITS OF DISTURBANCE
POND
RIPRAP

FEMA STATEMENT

THIS PROPERTY IS NOT LOCATED IN A 100 YEAR FLOOD HAZARD AREA. BASED ON THE FLOOD INSURANCE RATE MAP FOR THIS AREA, THE MAP NUMBER FOR THIS AREA IS 13113C0107E AND THE DATE OF SAID MAP IS SEPTEMBER 26, 2008.

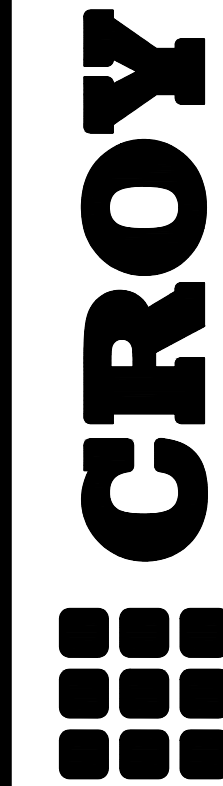
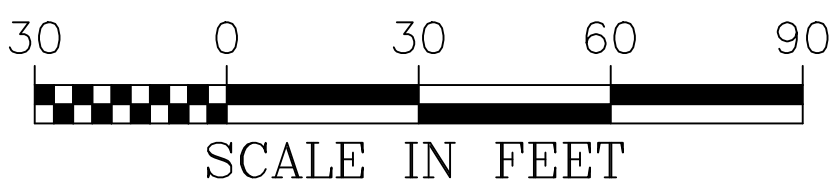
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Contact 811 before you dig.



24 HOUR CONTACT:
JEFFREY HILL
TEL: (404) 569-8701



200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
MARIETTA, GA 30062
PHONE: (770) 971-5407 FAX: (770) 971-0620

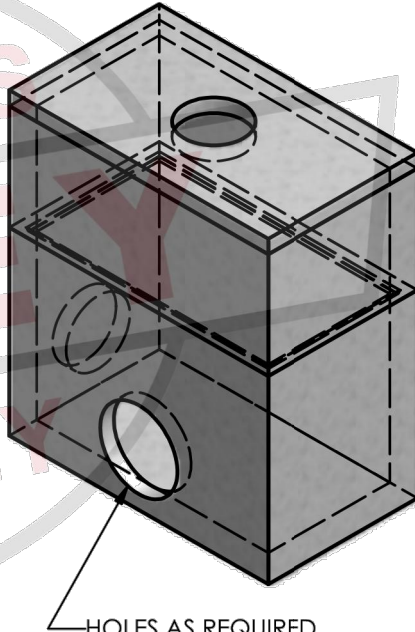
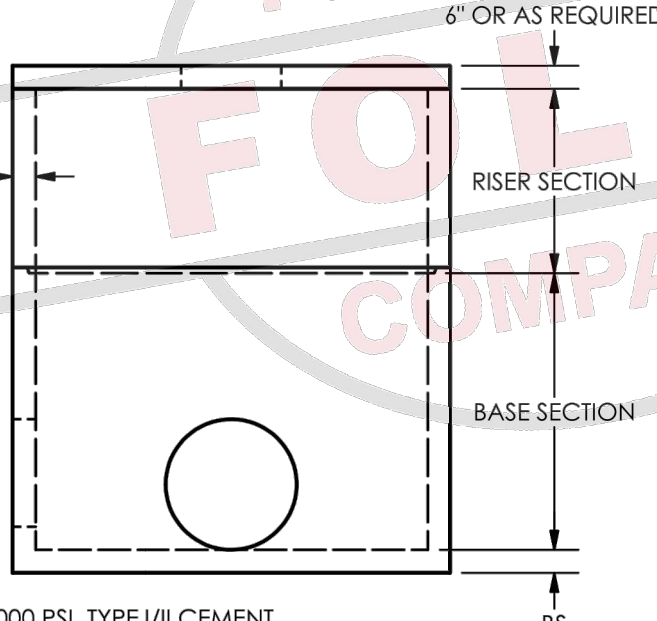
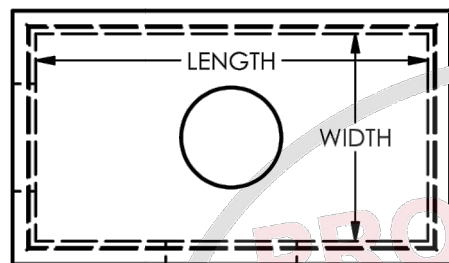
FAYETTE COUNTY FIRE & EMS TRAINING FACILITY

DESIGN PHASE

LAND LOT(S) 172
OF THE 01 DISTRICT, 5TH SECTION
FAYETTE COUNTY, GA

NOT ISSUED FOR CONSTRUCTION

LENGTH	WIDTH	WT	BS	RISER SECTION			BASE SECTION		
				MIN	MAX	VF TONS	MIN	MAX	SLAB TONS
2'-0"	2'-0"	6"	6"	1'-0"	4'-0"	0.36	1'-0"	4'-0"	0.34
4'-0"	2'-0"	6"	6"	1'-0"	4'-0"	0.53	1'-0"	4'-0"	0.56
3'-0"	3'-0"	6"	6"	1'-0"	3'-0"	0.33	1'-0"	3'-0"	0.34
3'-0"	3'-0"	6"	6"	1'-0"	6'-0"	0.53	1'-0"	6'-0"	0.60
4'-0"	4'-0"	6"	6"	1'-0"	6'-0"	0.68	1'-0"	6'-0"	0.94
4'-3"	3'-0"	8"	8"	1'-0"	4'-0"	0.86	1'-0"	4'-0"	1.21
5'-0"	5'-0"	6"	6"	1'-0"	6'-0"	0.83	1'-0"	6'-0"	1.35
6'-0"	6'-0"	6"	6"	1'-0"	8'-0"	0.98	1'-0"	8'-0"	1.84
8'-0"	8'-0"	6"	6"	1'-0"	5'-0"	1.28	1'-0"	5'-0"	3.04
8'-6"	4'-6"	6"	6"	1'-0"	6'-0"	1.05	1'-0"	6'-0"	1.96
8'-0"	6'-0"	6"	6"	1'-0"	6'-0"	1.13	1'-0"	6'-0"	2.36
10'-0"	3'-0"	8"	8"	1'-0"	5'-0"	1.43	1'-0"	5'-0"	2.46
10'-0"	5'-0"	6"	6"	1'-6"	6'-0"	1.20	1'-0"	6'-0"	2.48
12'-0"	6'-0"	6"	6"	1'-6"	6'-0"	1.43	1'-0"	6'-0"	3.41



MATERIALS:
CONCRETE: 4,000 PSI, TYPE I/II CEMENT
MANUFACTURED TO ASTM C-913
GRADE 60 REINFORCEMENT

NOTES:
PULL-IN-IRONS, SUMPS, INSERTS AND OTHER HARDWARE
AVAILABLE FOR SPECIAL UTILITY APPLICATIONS
AASHTO H20 DESIGN LOADING AVAILABLE

PARTS SHOWN:
8'-6"L x 5'-6"W x 6"THICK SLAB TOP WITH Ø26"
8'-6"L x 4'-6"W x 4'-0"H 6" WALL RISER
8'-6"L x 4'-6"W x 6'-0"H 6" WALL 6"THICK BASE
Ø34" HOLE AT 0°
Ø28" HOLE AT 90° UP 6"

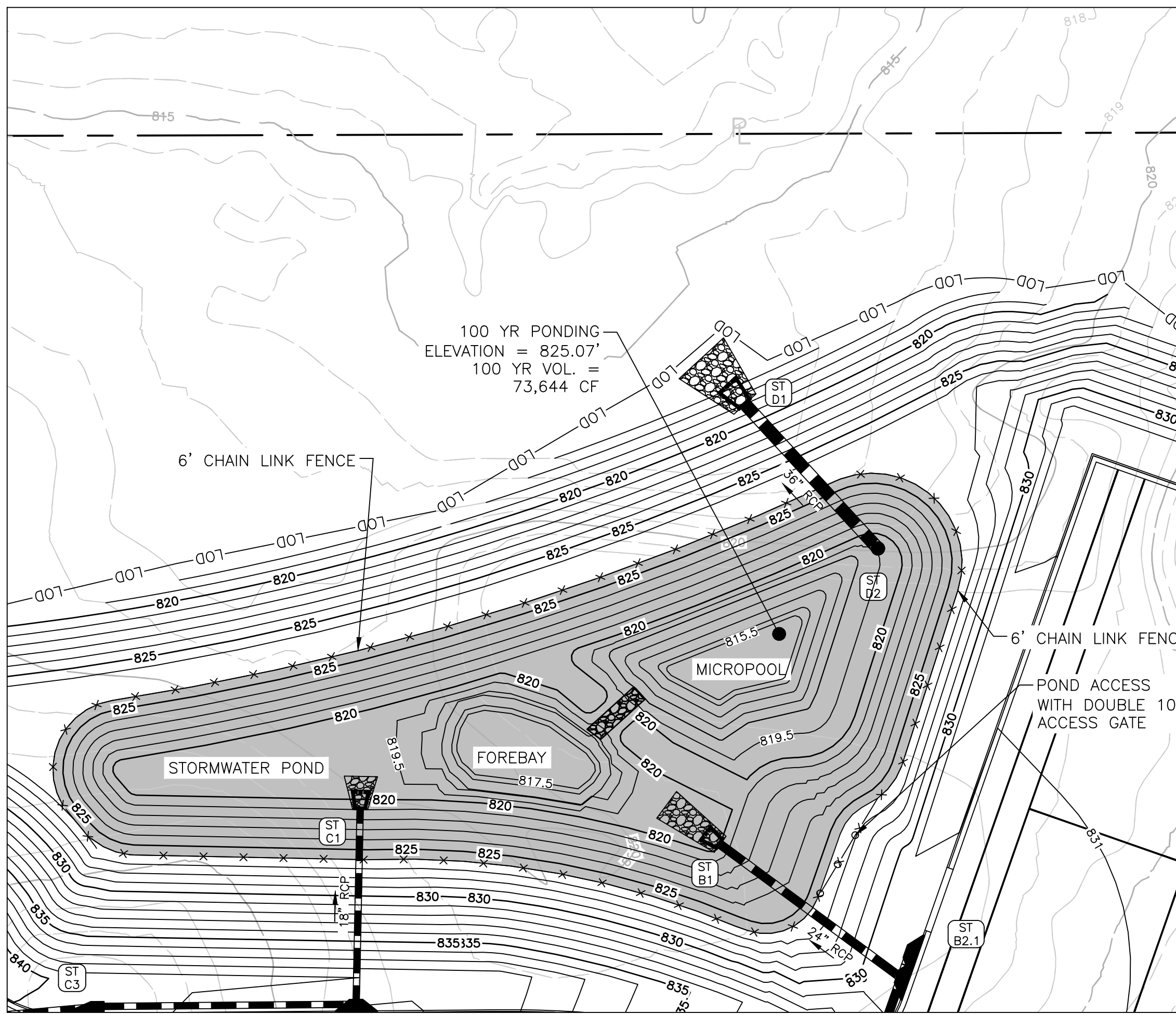


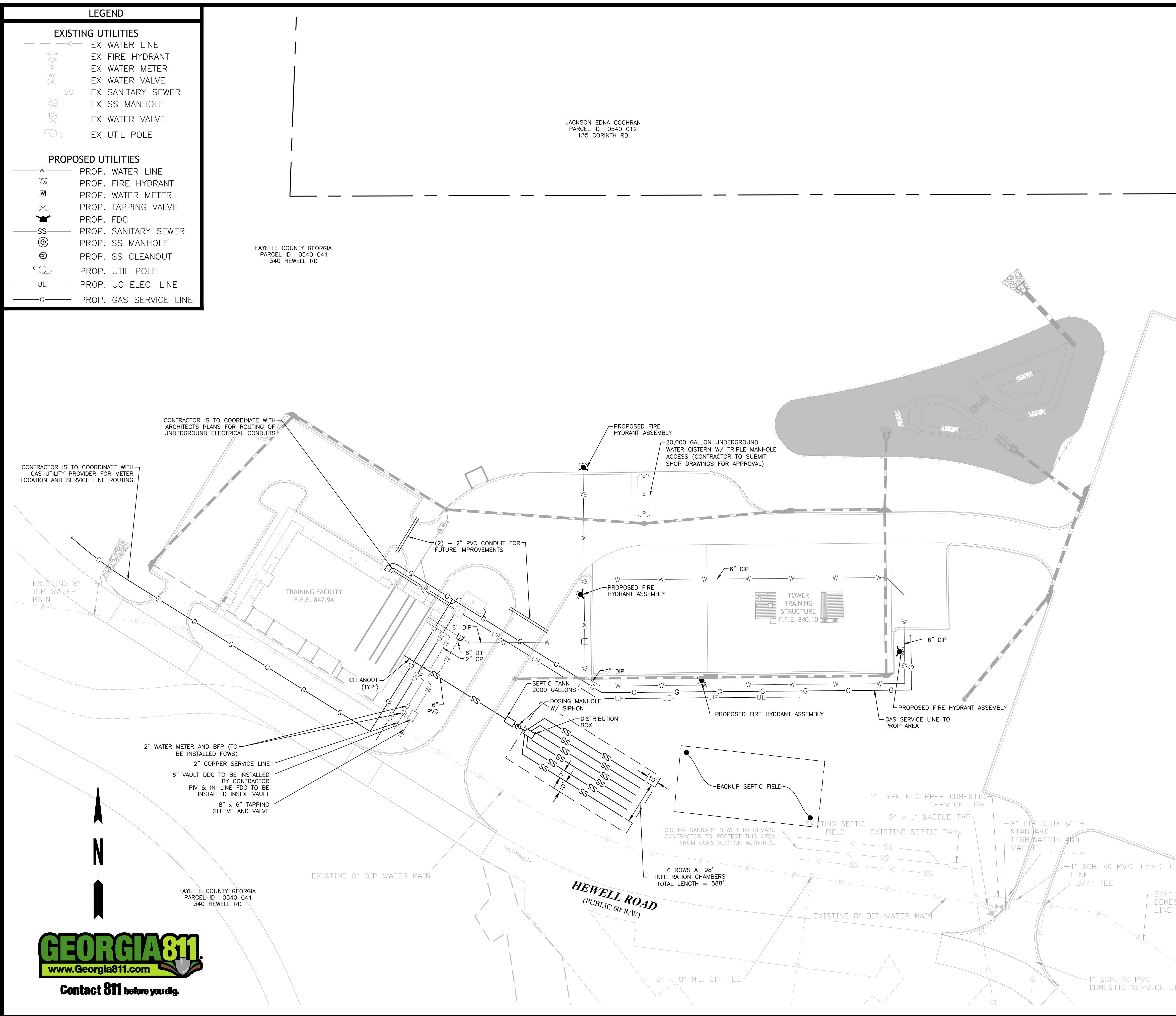
BOX

STANDARD BOX FORMS

2.3

*OR APPROVED EQUAL





- THERE MAY BE ADDITIONAL UTILITIES THAN THOSE SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS SHOWN AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS AND NECESSARY DEPTHS. INVESTIGATIONS OF THE EXISTING UTILITIES SHALL BE COMPLETED PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE DEPARTMENT OF THE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR THE NOTIFICATION OF THE UTILITY COMPANIES AND THE NECESSARY DEPTHS OF LOCATING, RELOCATING AND TIE-IN TO THE PUBLIC UTILITIES.
- NOTIFY FAYETTE COUNTY WATER AND SEWER DEPARTMENT 24 HOURS PRIOR TO ANY WATER OR SEWER CONSTRUCTION: (770-461-1146).
- IF ANY CONFLICTS, DISCREPANCIES OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL COMMENCE CORRECTIONS IMMEDIATELY. DISCREPANCIES OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.

[illegible]



CALCULATIONS

Fire & EMS Training Facility

1. Flow and Absorption Field
 - Sewerage Flow Rate:

+25 GPD/person
+10 GPD/instructor (shower access)

- Use approximately:
- Sewage Flow:
- Length of Line

60 people daily + 3 instructors
 $(25) \cdot (60) + (3 \cdot (25 + 10)) = 1,605 \text{ GDP}$

- Using Fayetteville County Minimum Percolation Rate of 70 minutes per inch from table DT-1 the factor is 1.673 sq.ft./gal assuming a trench width of 3 (3) feet. The total length of line is $L = (1.673)(\text{Flow gpd})/3$
- $L = (1.673)(1605)/3$
 $L = 895.06 \text{ L.F.}$
 Use $L = 896 \text{ L.F.}$ for conventional System
- According to the Department of Public Health's Manual for On-Site Sewage Management System a 35% reduction in the absorption trench length for Non-Conventional On-Site Sewage Management Systems. Therefore, use the $L = 583 \text{ L.F.}$ for the chambered system.

- ## 2. Septic Tank

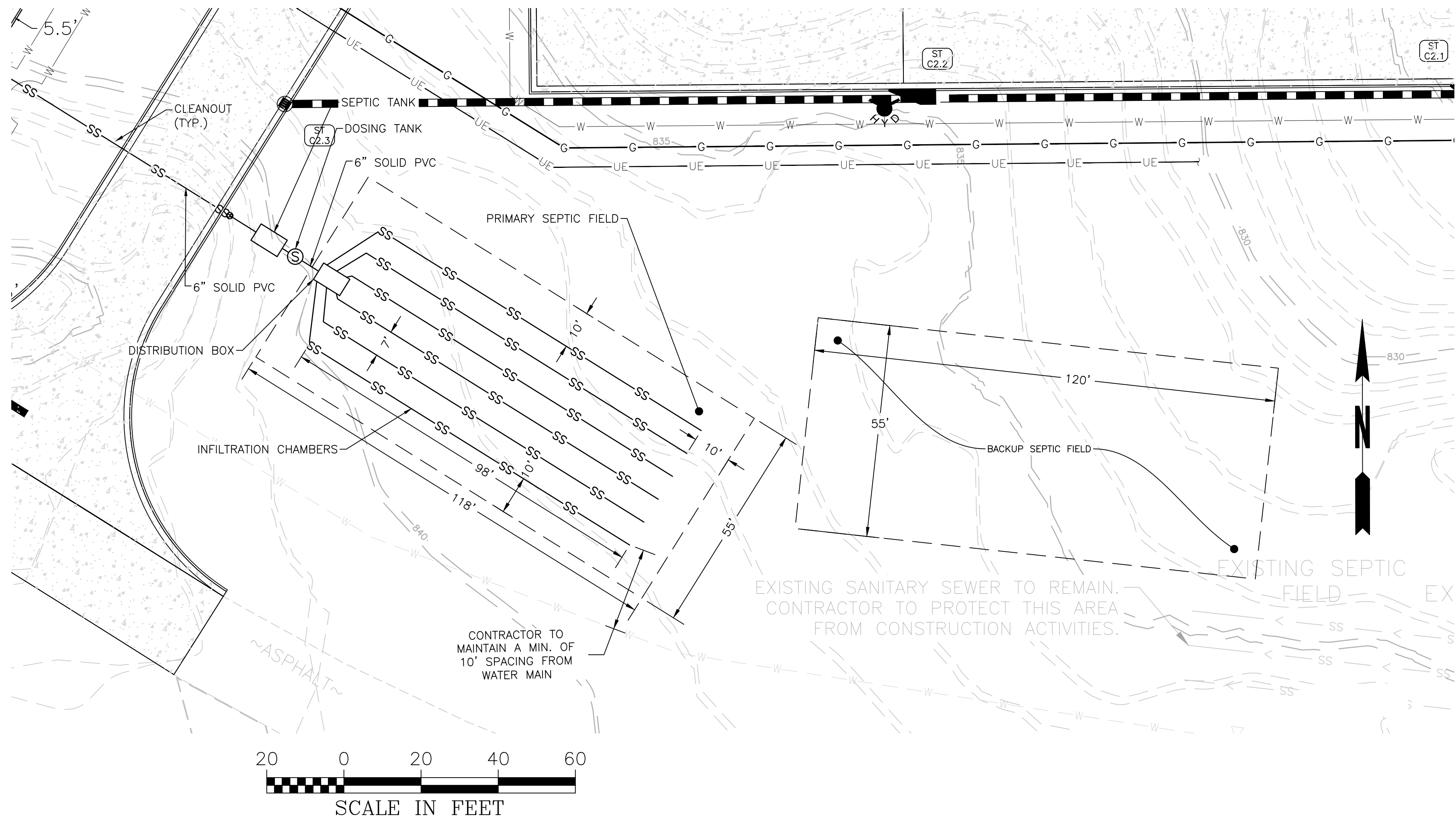
The design of the septic tank shall be based on a capacity equal to a 24 hour retention, but not less than 750 gallon minimum.
Based on a daily flow rate of 1,605 GPD, we recommend using a 2,000 gallon septic tank.

- ### 3. Dosing Tank Calculations

According to the Department of Public Health's Manual for On-Site Sewage Management System, Dosing Volume (DV) is equal to 75% of interior volume of absorption lines to be dosed. For a 4" conventional system the operating volume is equal to 0.5 gal/LF of line; LF of line = 896 LF. Therefore, 896 LF x 0.5 gal/LF = 448 Gallons; DV = 448 Gallons. Using Figure EF-2 (provided this sheet) and a 4-6" carrier pipe, the dimensions of the sewage siphon inside the dosing tank are provided in the Table ET-1. For a 4" Siphon, the Average Discharge Rate is 165 GPM. 448 Gallons x min. / 165 Gallons = 2.72 minutes ~ 3 minutes. According to the Figure and Table, the dosing volume can be dosed and discharged in 3 minutes.

4. Infiltration Chambered system shall be installed per manufacturer's standards.

200 Cobb Parkway North | Building 400, Suite 413 | Marietta, Georgia 30062 | 770.971.5407
croyengineering.com

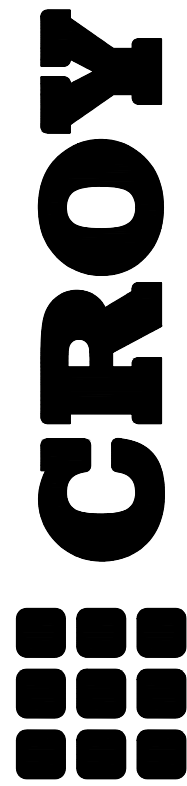


Contact 811 before you dig.

THERE MAY BE ADDITIONAL UTILITIES THAN THOSE SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS SHOWN AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS AND NECESSARY INVERTS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE DEPARTMENT OF THE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR THE NOTIFICATIONS AND LIAISON WITH UTILITY COMPANIES IN THE PROCESS OF LOCATING, RELOCATING AND TIE-IN TO THE PUBLIC UTILITIES.

NOTIFY FAYETTE COUNTY WATER AND SEWER DEPARTMENT
24 HOURS PRIOR TO ANY WATER OR SEWER
CONSTRUCTION: (770-461-1146)5.

IF ANY CONFLICTS, DISCREPANCIES OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE OPERATION UNTIL THE CONFLICTS, DISCREPANCIES OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.



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WHATSOEVER WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF CROY ENGINEERING, LLC. NOR ARE THEY TO BE ASSIGNED TO ANY PARTY WITHOUT WRITTEN PERMISSION AND CONSENT. THESE PLANS AND DRAWINGS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER

FAYETTE COUNTY FIRE & EMS TRAINING FACILITY

DESIGN PHASE

LAND LOT(S) 172
OF THE 01 DISTRICT, 5TH SECTION
FAYETTE COUNTY, GA

NOT ISSUED FOR CONSTRUCTION

[illegible]

SEARCH



GSWCC CERT #78081

SHEET TITLE
SEPTIC FIELD PLAN

DRAWN BY ORG	CHECKED BY SMM
SCALE 1"=20'	ISSUE DATE 10/28/2022

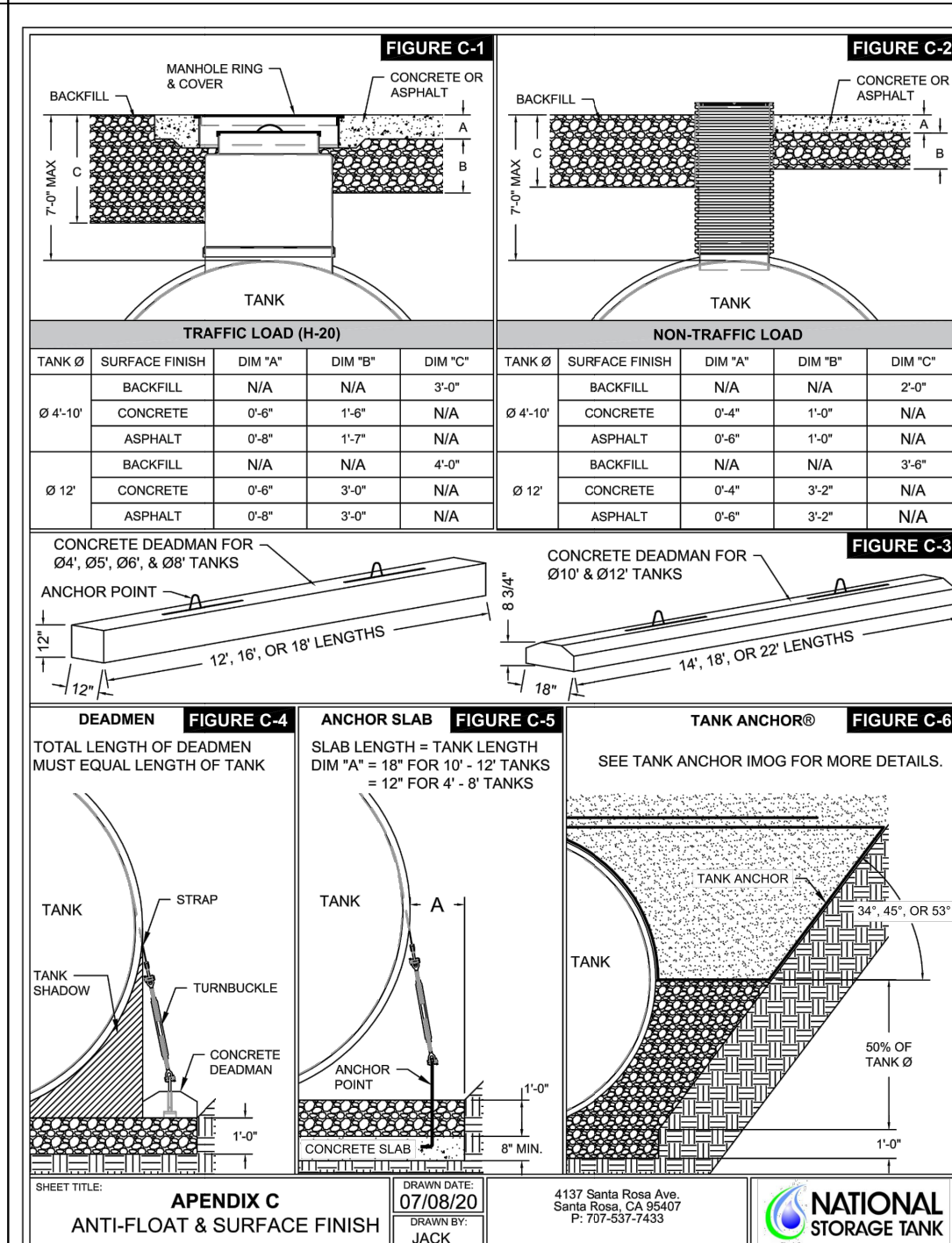
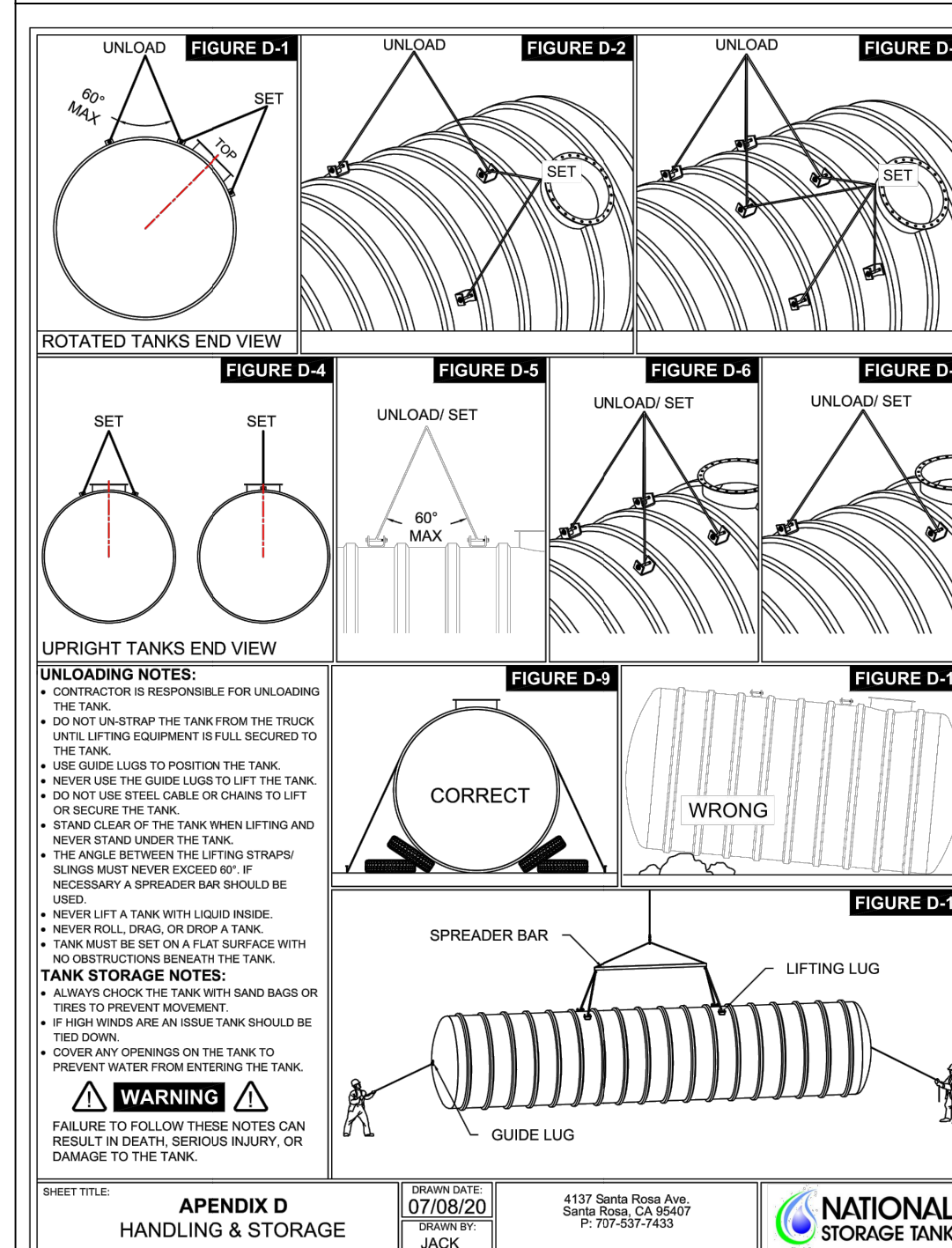
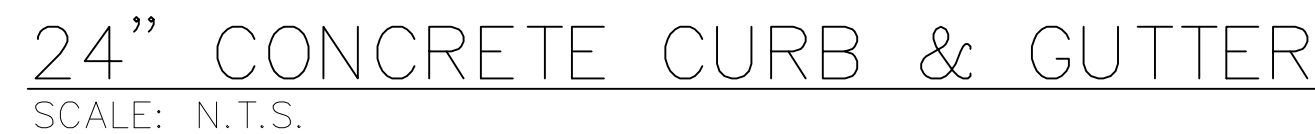
PROJECT NUMBER
1866.031

DRAWING NUMBER
C-401

SHEET 12 of 25

NOTES

1. CONCRETE TO BE 4,000 PSI AT 28 DAYS
2. WELDED WIRE MESH SHALL MEET THE REQUIREMENTS OF ASTM F2535
3. CURRENT EDITION
3. DOWEL BARS
4. REINFORCEMENT BARS SHALL BE GRADE 60 MEETING THE REQUIREMENTS OF ASTM A615-81.
5. JOINT SEALANT
6. CONTRACTOR TO SUBMIT THE FOLLOWING FOR APPROVAL:
 - 6.1. CONCRETE MIX DESIGN
 - 6.2. ALL REINFORCEMENT MATERIAL
 - 6.3. ALL JOINT MATERIAL
 - 6.4. JOINT LAYOUT
7. DOWELS TO BE PLACED AT D/2.
8. CONTRACTOR IS TO SUBMIT CONCRETE MIX DESIGN FOR APPROVAL.
9. CONTRACTOR IS TO PREPARE AND SUBMIT FOR APPROVAL ALL MATERIAL FOR CONCRETE JOINTS.



FAYETTE COUNTY FIRE & EMS TRAINING FACILITY

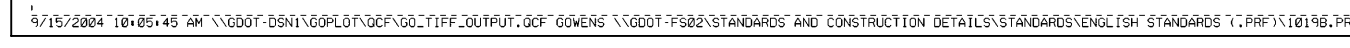
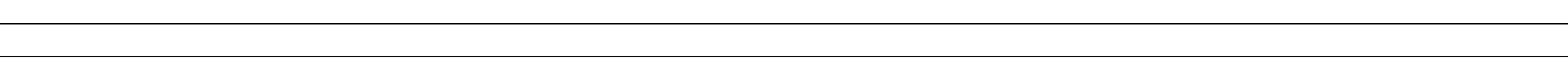
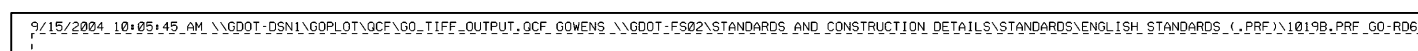
DESIGN PHASE

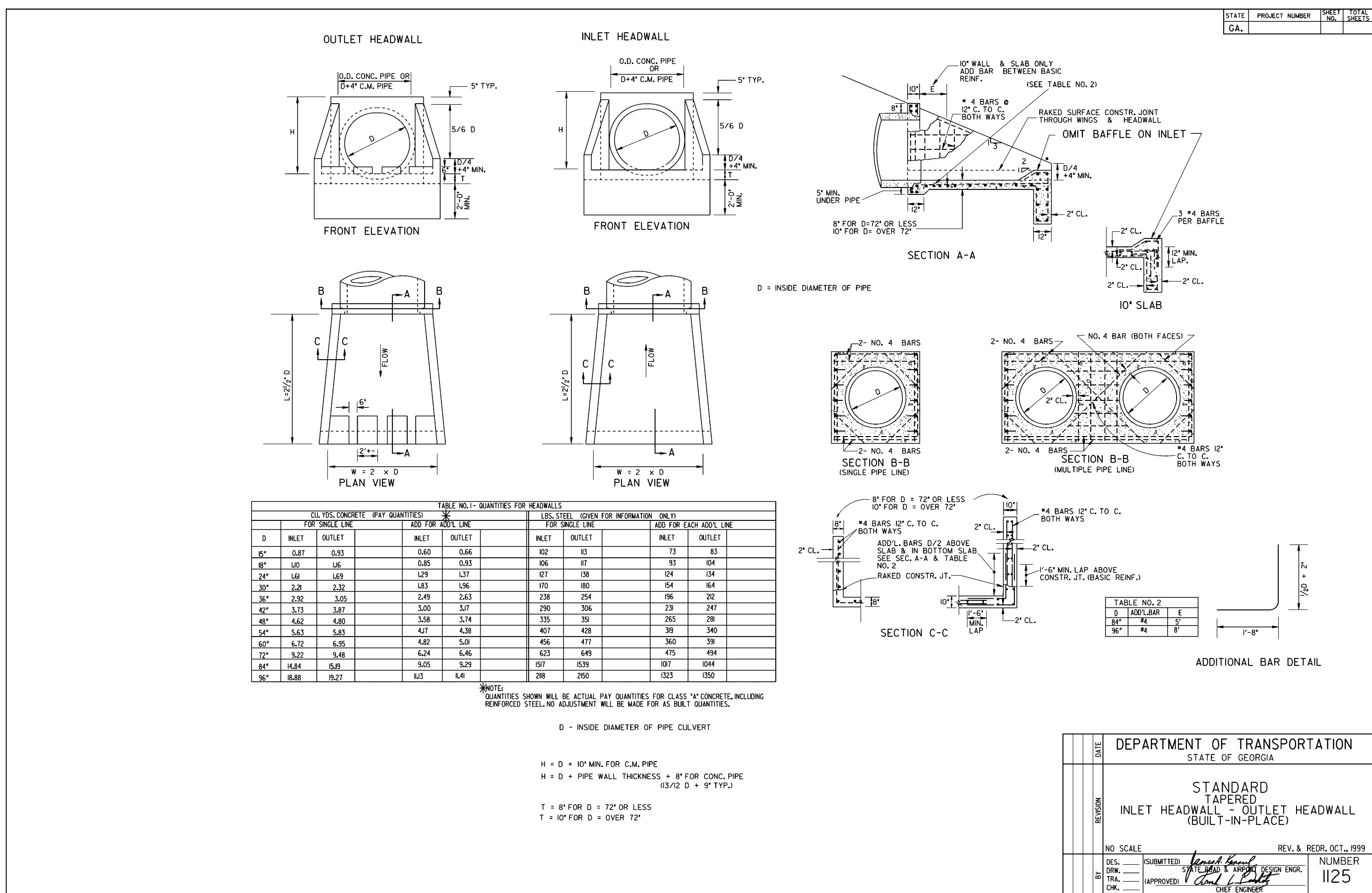
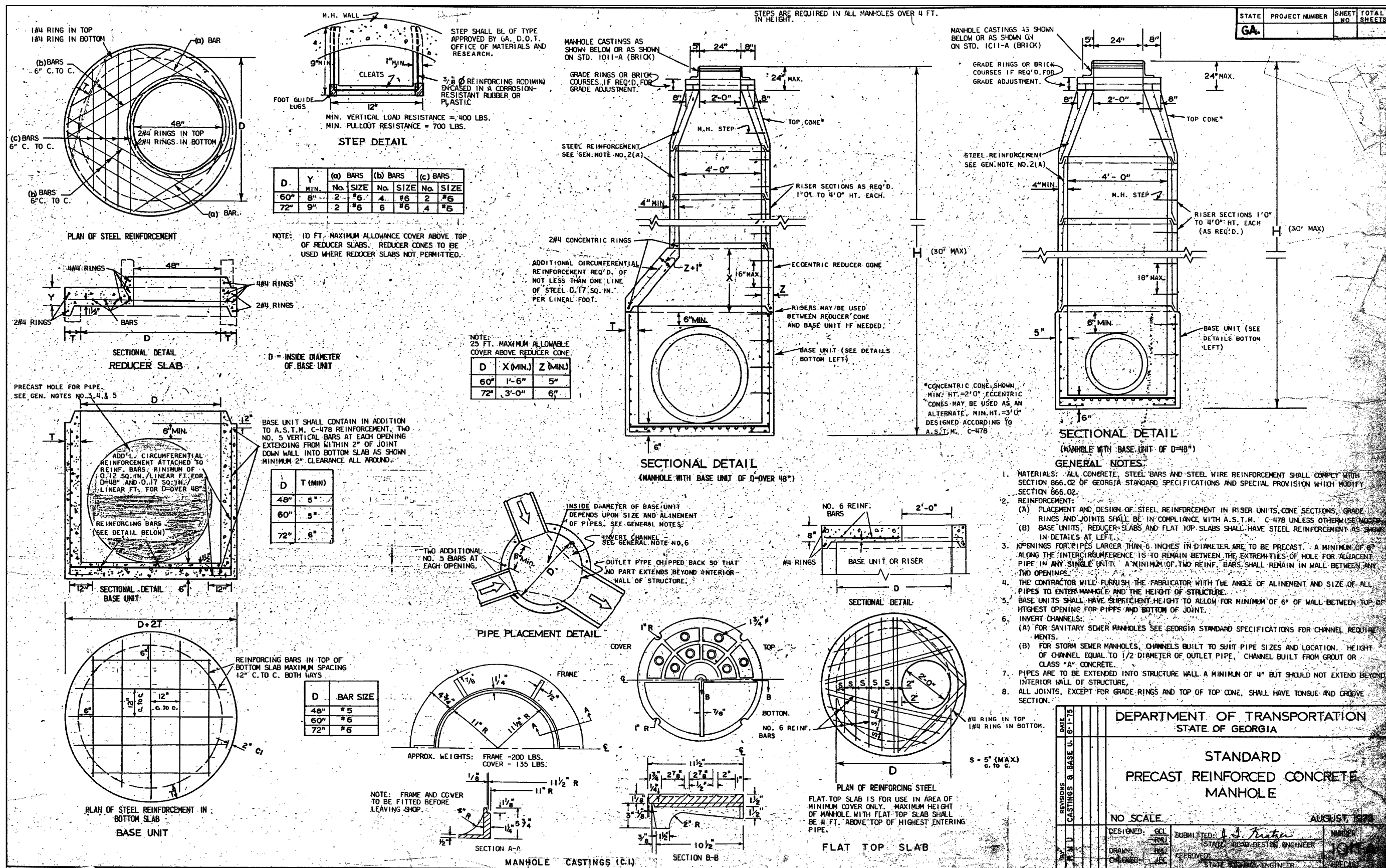
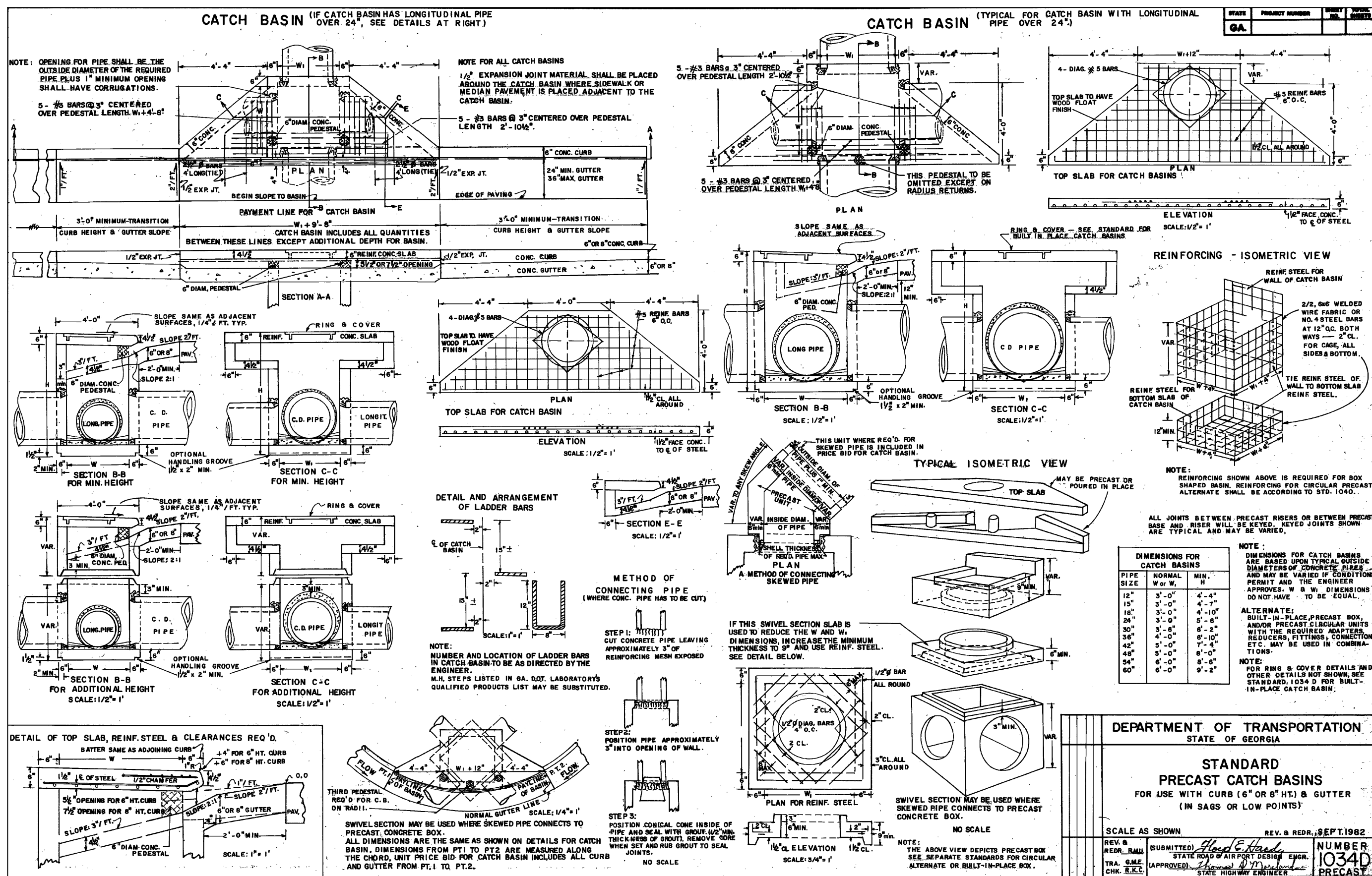
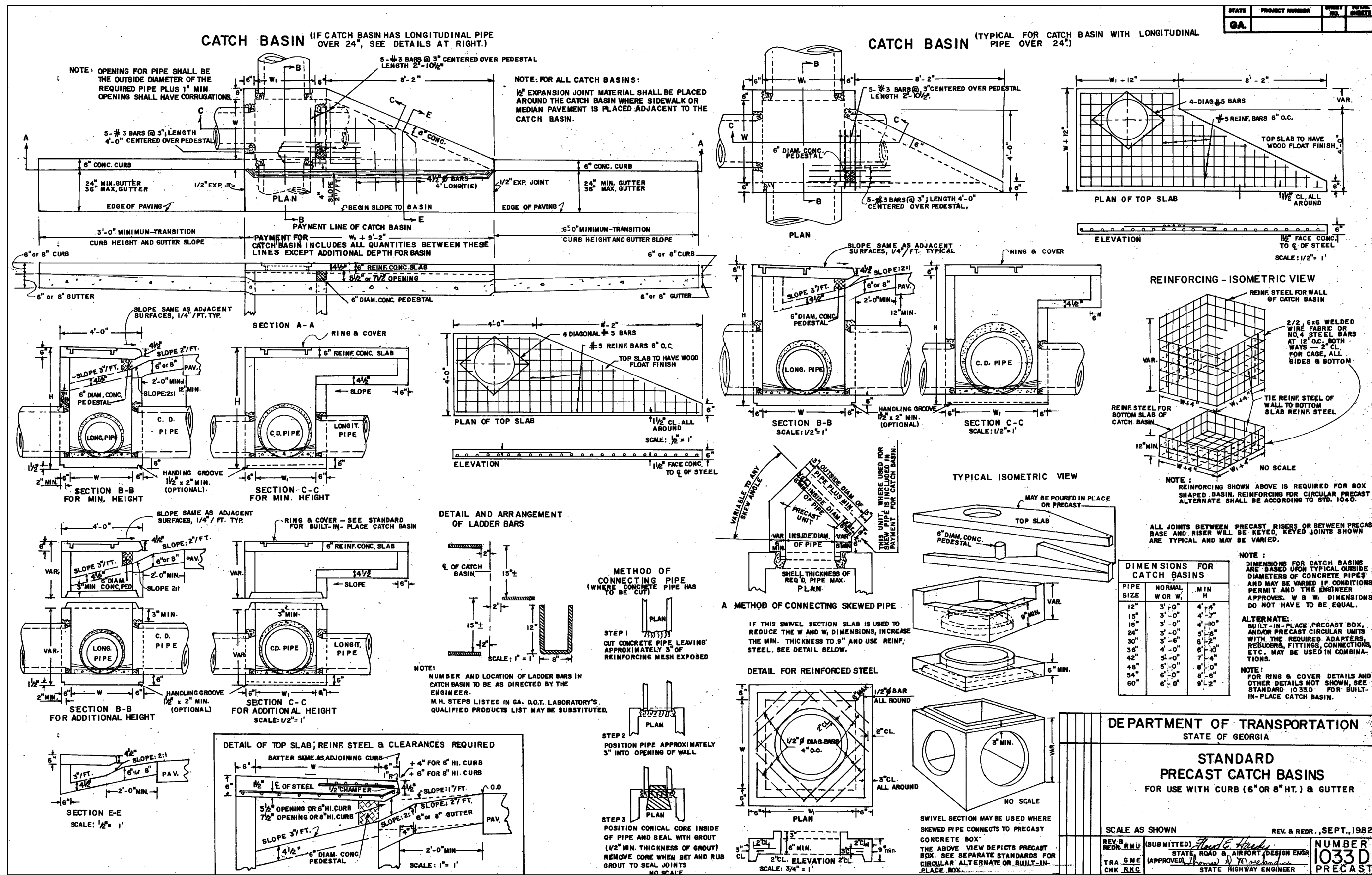
LAND LOT(S) 172
OF THE 01 DISTRICT, 5TH SECTION
FAYETTE COUNTY, GA

NOT ISSUED FOR CONSTRUCTION

Drawing Location: P:\Marietta\1866 Fayette County\1866.031 Task Order 32 - Fire and EMS Training Facility\Design\1866.031 Cover Notes & Details.dwg

Plot Scale: 1"=##'. Drawing Rotation: ##°. Plot Style: Design.ctb. Plotted By: Chris Wille on 10/28/2022. 8:10 AM





CROY

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MARIETTA, GA 30062
PHONE: (770) 971-5407 FAX: (770) 971-0620

FAYETTE COUNTY FIRE & EMS TRAINING FACILITY

DESIGN PHASE
LAND LOT(S) 172
OF THE 01 DISTRICT, 5TH SECTION
FAYETTE COUNTY, GA

NOT ISSUED FOR CONSTRUCTION

DRAWING NUMBER: 1125

SHEET 15 of 25

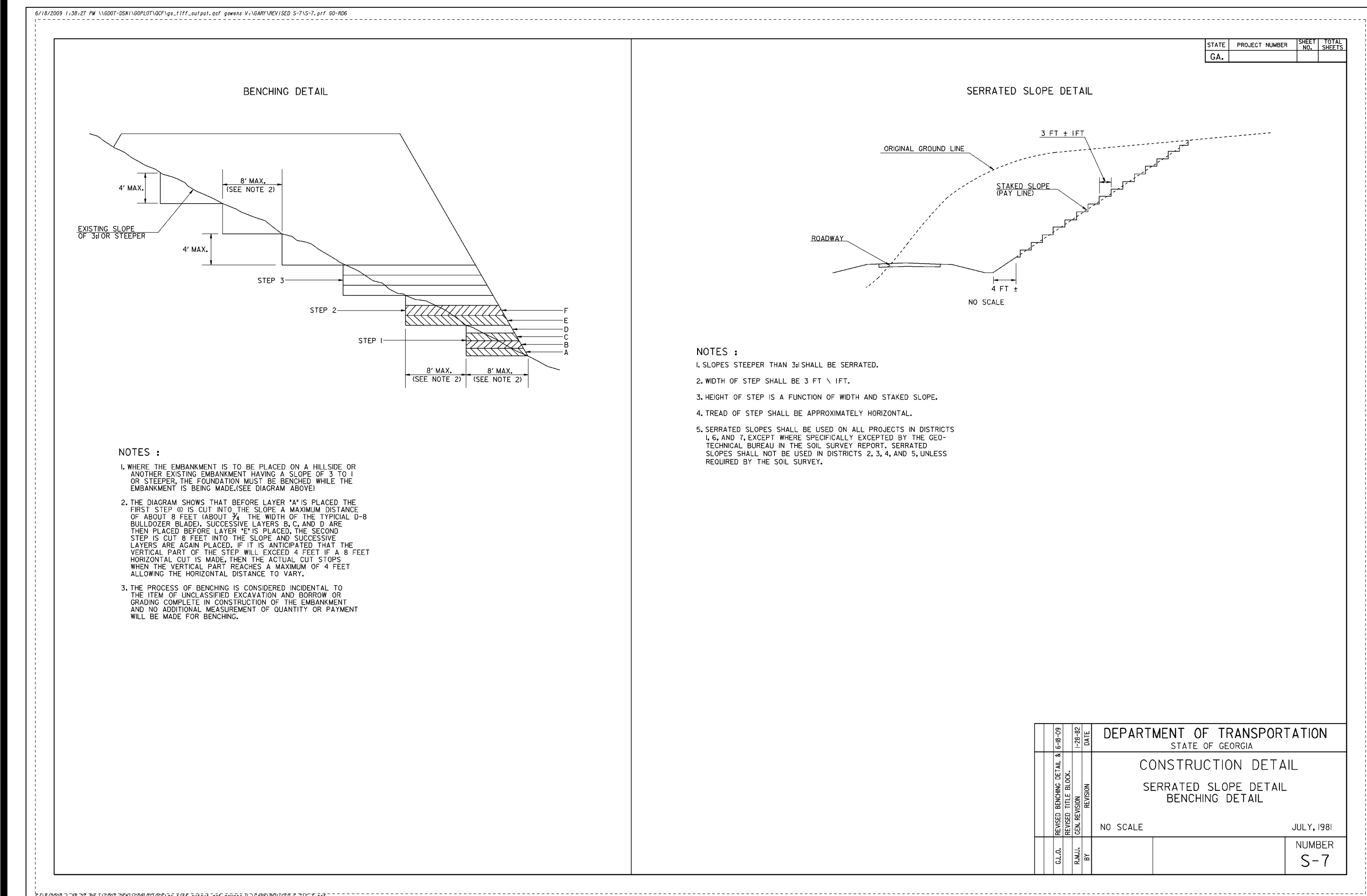
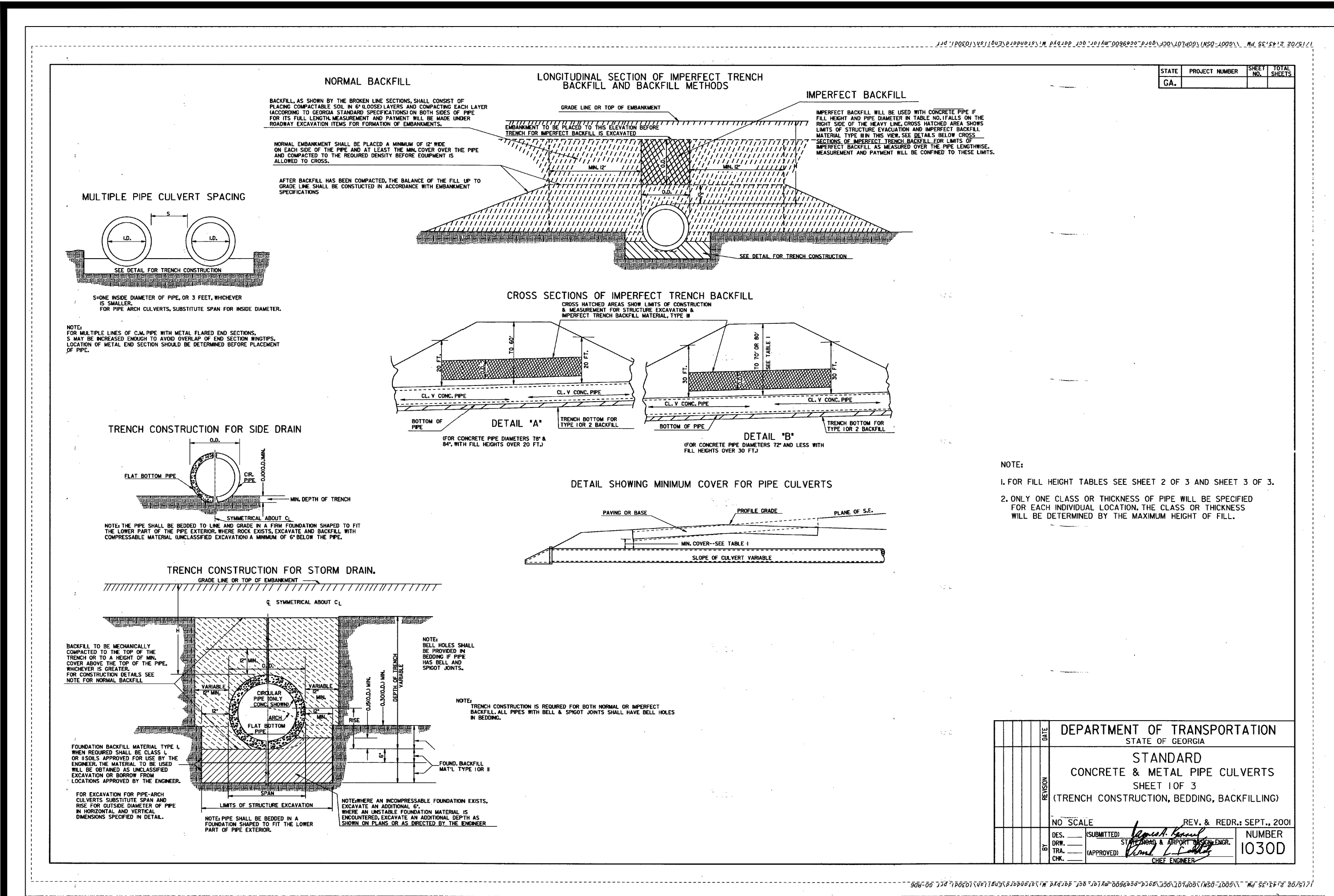


TABLE NO. 1 ROUND PIPE - CONCRETE - CORRUGATED STEEL - CORRUGATED ALUMINUM																	
MINIMUM CLASS OF CONCRETE OR MINIMUM THICKNESS OF STEEL AND ALUMINUM																	
PIPE DIAMETER (INCHES)	TYPE	MINIMUM COVER (INCHES)	HEIGHT OF FILL IN FEET ABOVE TOP OF PIPE														PIPE DIAMETER (INCHES)
			1 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90			
12	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	12
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	15
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	
15	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	
18	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	24
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	
24	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	30
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	
30	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	36
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	
36	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	42
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	
42	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	48
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	
48	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	54
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	
54	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	60
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	
60	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	66
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	
66	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	72
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	
72	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	78
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	
78	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	84
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	
84	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	90
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	
90	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	96
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	
96	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	102
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	
102	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	108
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	
108	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	114
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	
114	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	120
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	
120	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	

GEN. REV. NOTES

ADDED SEAM CONST. NOTE

REVISION

DATE

NO SCALE

CONCRETE & METAL PIPE CULVERTS

SHEET 2 OF 3

FILL HEIGHTS FOR CONCRETE & CORRUGATED METAL PIPE

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

STANDARD

DES. (SHEETED)

APPROVED

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NO. 1030D

OCTOBER 21, 1998

NUMBER

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CROY

200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
MARIETTA, GA 30062
PHONE: (770) 971-5407 FAX: (770) 971-0620

DESIGN PHASE
FAYETTE COUNTY FIRE & EMS
TRAINING FACILITY
LAND LOT(S) 172
OF THE 01 DISTRICT, 5TH SECTION
FAYETTE COUNTY, GA

NOT ISSUED FOR CONSTRUCTION

SEAL
GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 44614
JAMES T. MCNALLY

GSWCC CERT #78081

SHEET TITLE
CONSTRUCTION
DETAILS

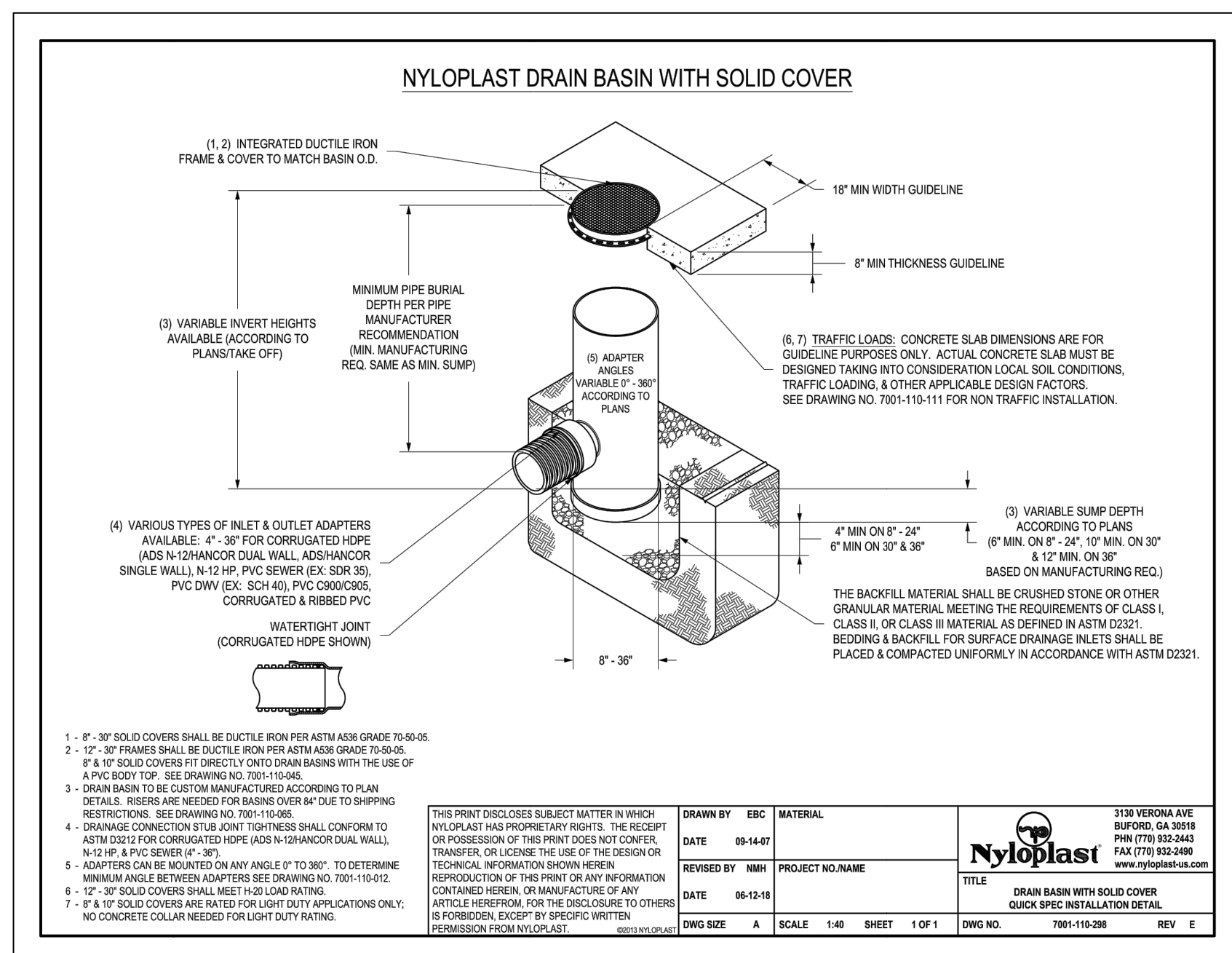
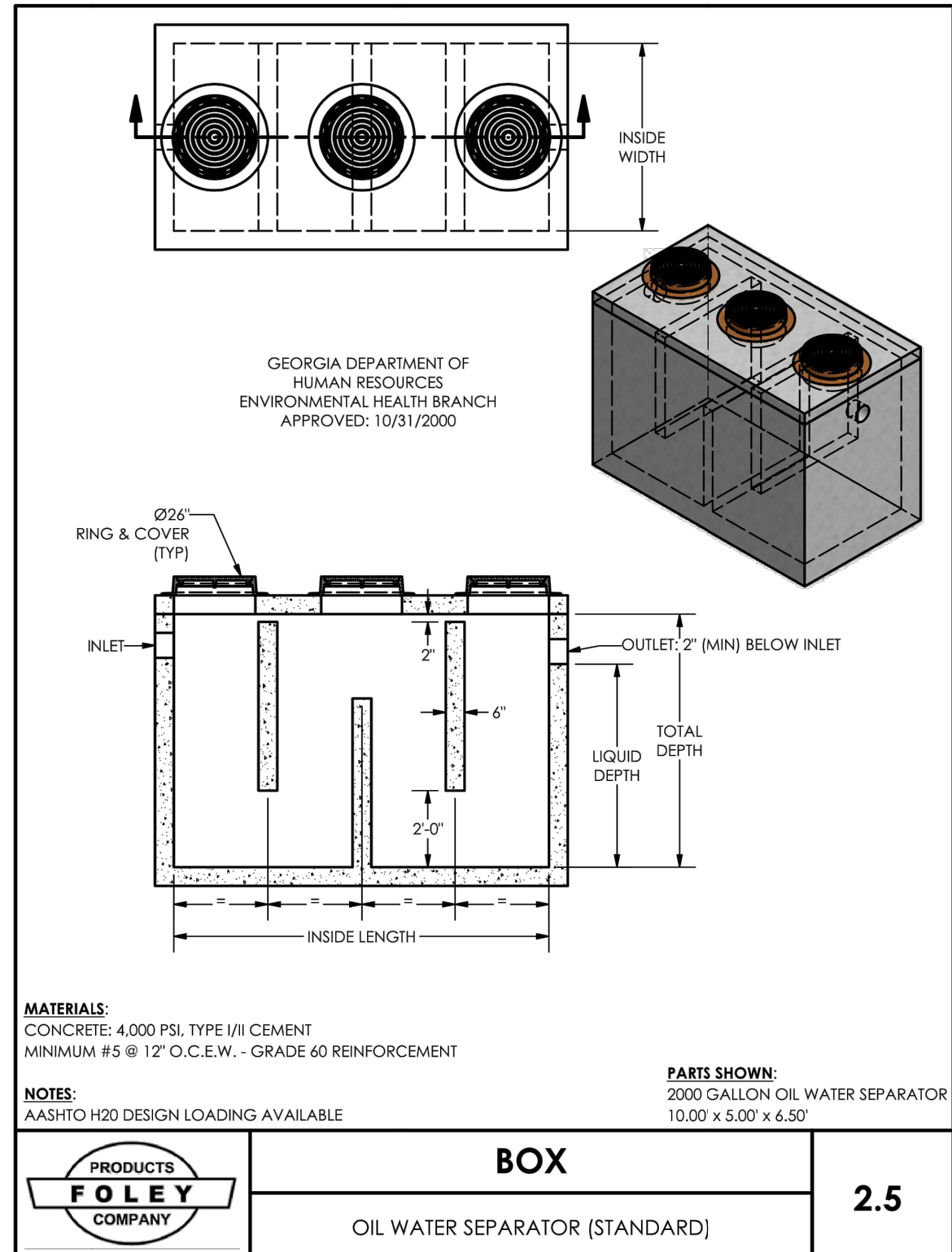
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ORG
SCALE
N/A

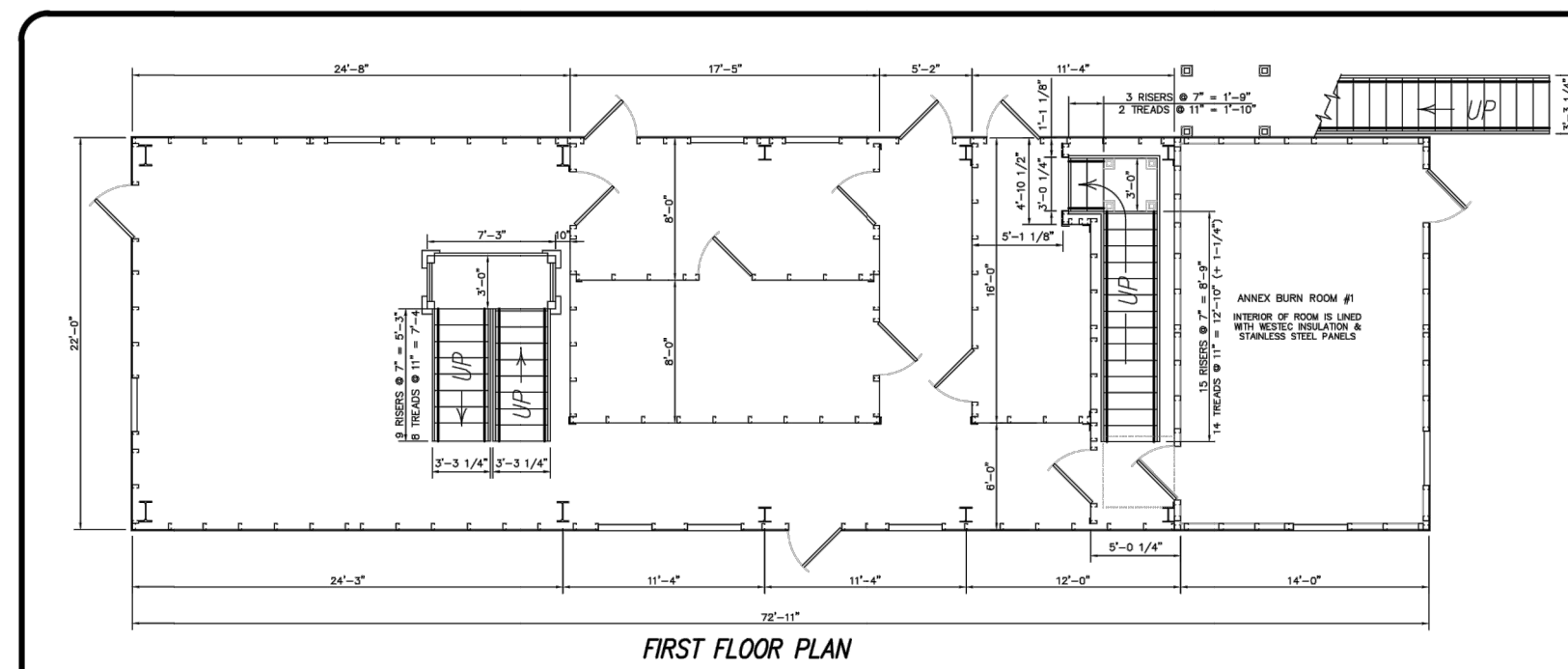
CHECKED BY
SMM
ISSUE DATE
10/28/2022

PROJECT NUMBER
1866.031

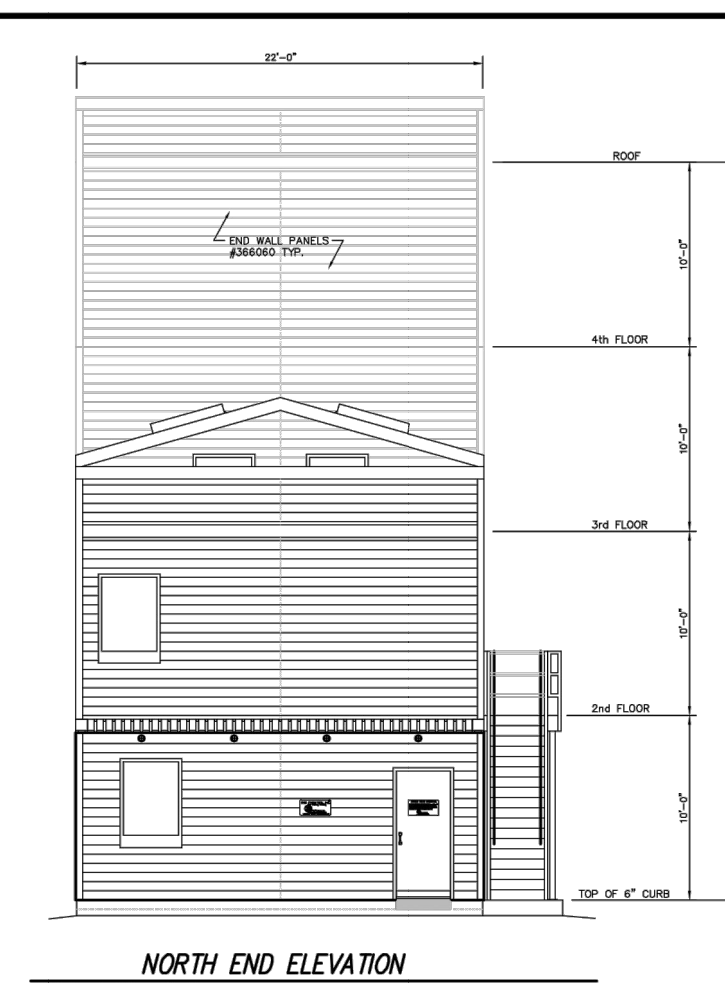
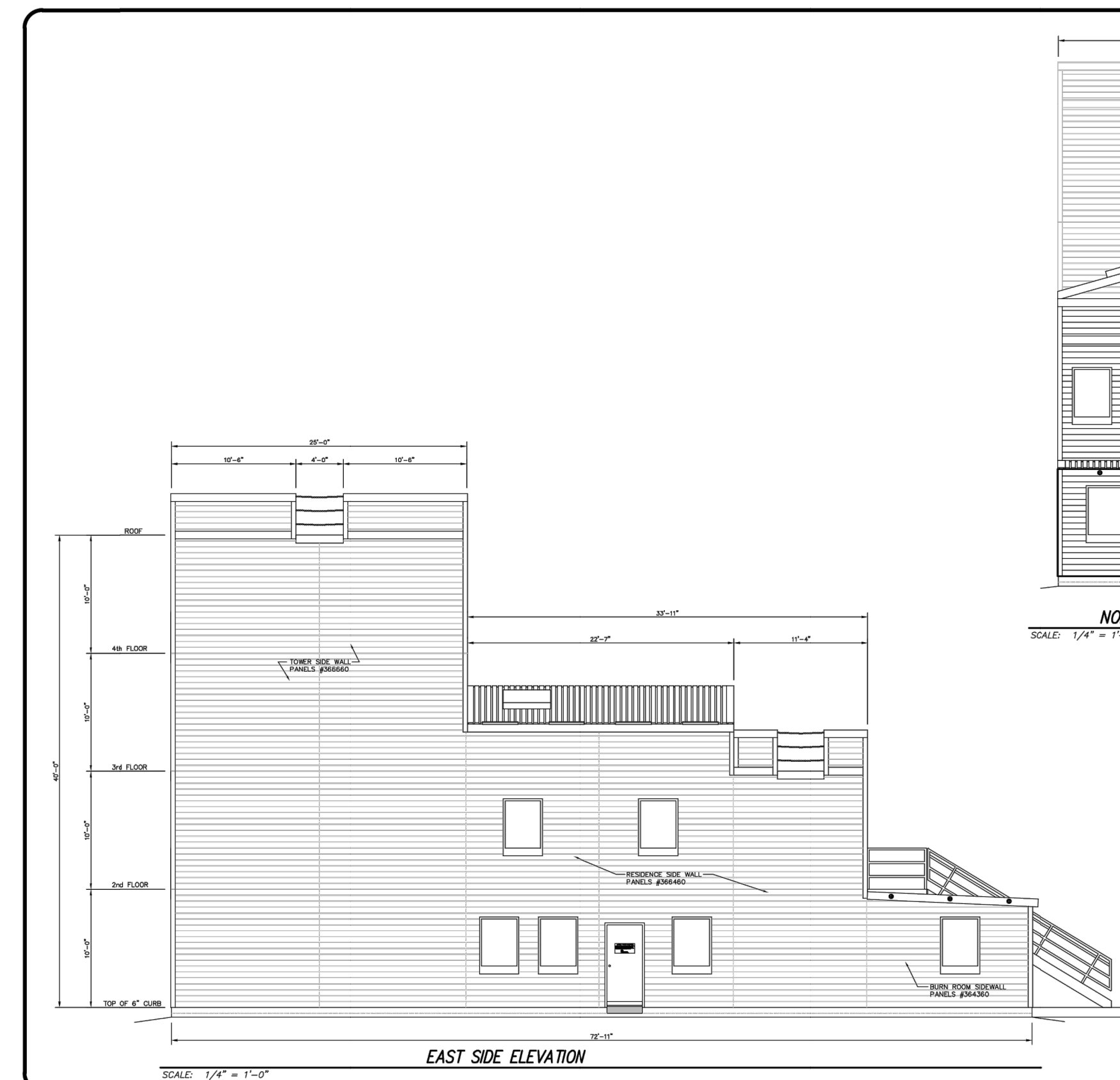
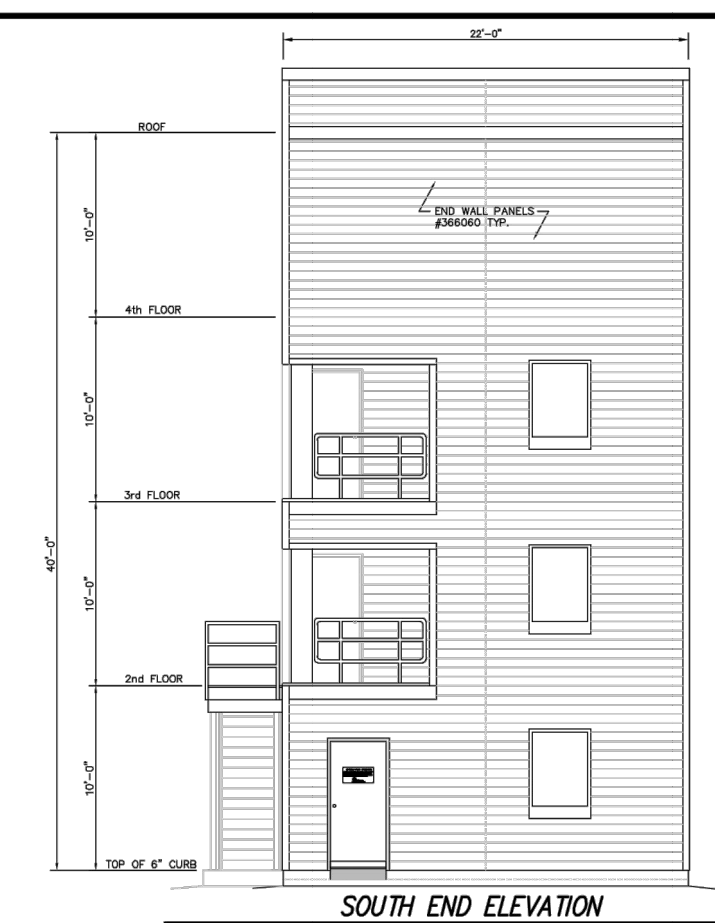
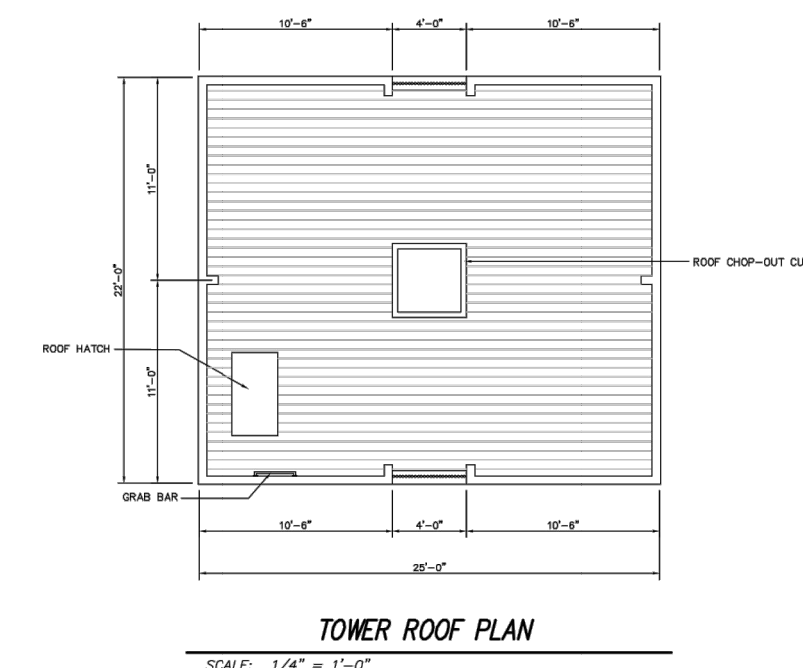
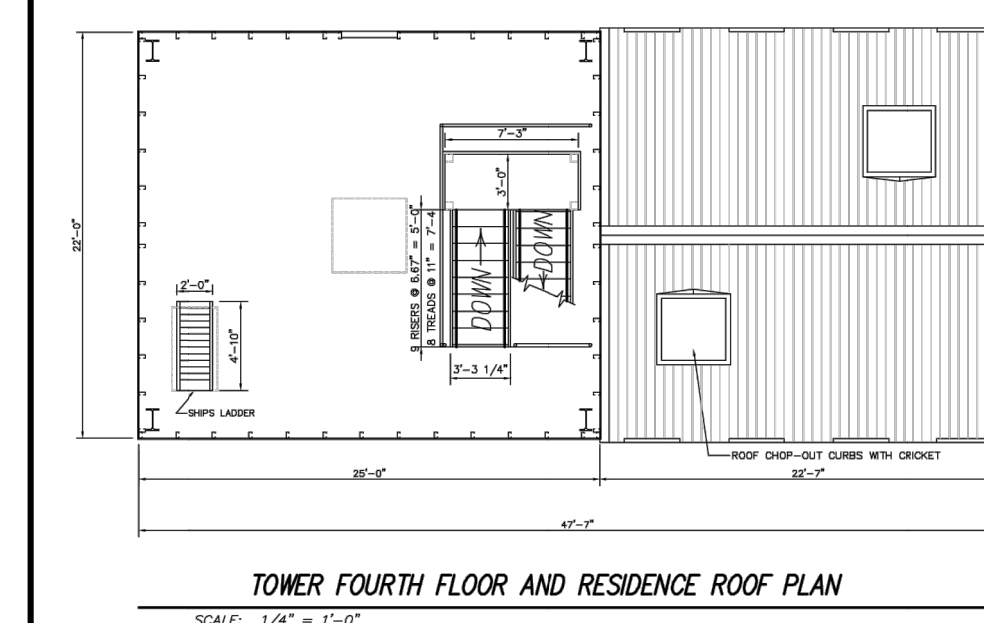
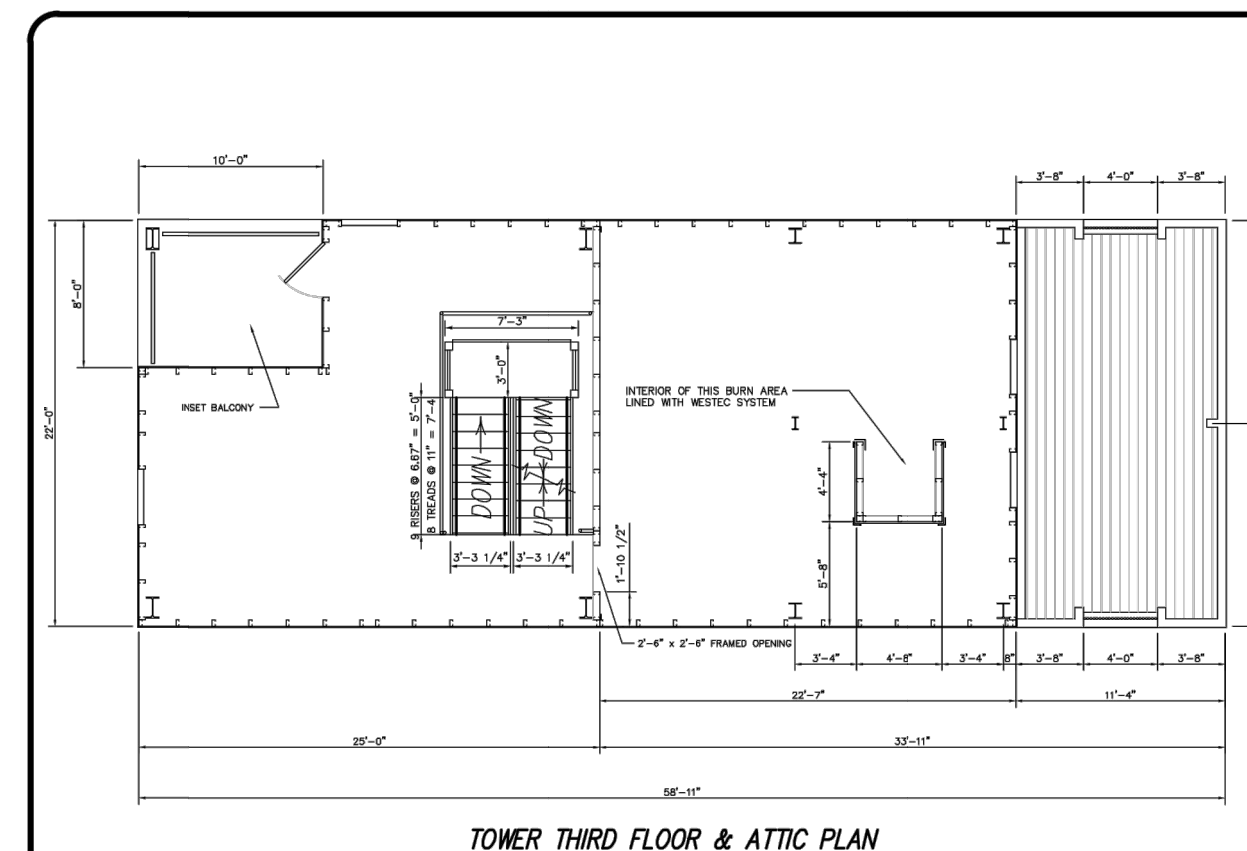
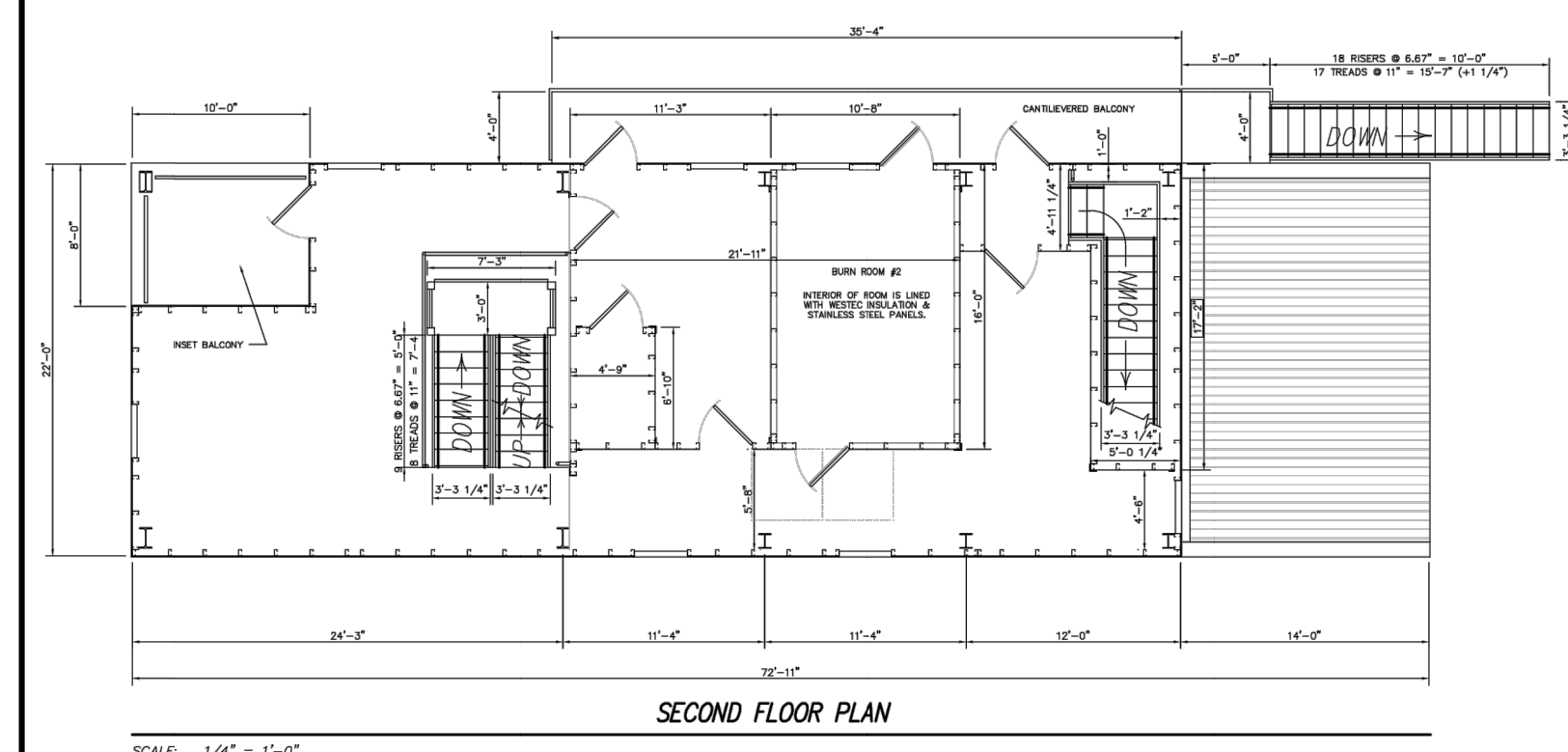
DRAWING NUMBER
C-503

SHEET 16 of 25





NOTE: ALL SHUTTERS IN TOWER SWING IN, UNLESS OTHERWISE SHOWN
ALL SHUTTERS IN BURN ROOM & ATTIC SWING OUT, UNLESS OTHERWISE SHOWN



NOTE:
CONTRACTOR TO GET APPROVAL FROM OWNER
BEFORE CONSTRUCTION BEGINS.

FAYETTE COUNTY FIRE & EMS TRAINING FACILITY

DESIGN PHASE

LAND LOT(S) 172
OF THE 01 DISTRICT, 5TH SECTION
FAYETTE COUNTY, GA

NOT ISSUED FOR CONSTRUCTION

NO.	REVISION REFERENCE	DATE
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SEAL



GSWCC CERT #78081

SHEET TITLE
CONSTRUCTION
DETAILS

DRAWN BY ORG	CHECKED BY SMM
SCALE N/A	ISSUE DATE 10/28/2022

PROJECT NUMBER	1866.031
DRAWING NUMBER	

C-505
SHEET 18 of 25

ES&PCP GENERAL NOTES

1. THE APPLICABLE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN CHECKLIST IS LOCATED ON ER-000.
2. LEVEL II CERTIFICATION NUMBER ISSUED BY THE COMMISSION, SIGNATURE, AND SEAL OF THE CERTIFIED DESIGN PROFESSIONAL IS LOCATED ON ER-000.
3. LIMITS OF DISTURBANCE SHALL BE NO GREATER THAN 50 ACRES AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE EPD DISTRICT OFFICE. IF EPD APPROVES THE REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME, THE PLAN MUST INCLUDE AT LEAST 4 OF THE BMPs LISTED IN APPENDIX 1 OF THIS CHECKLIST.
4. 24 HOUR LOCAL CONTACT INFORMATION (TO BE DETERMINED AT AWARD OF CONTRACT):
NAME: JEFFREY HILL
PHONE: (404) 569-8701
5. PRIMARY PERMITTEE CONTACT INFORMATION:
NAME: JEFFREY HILL
ADDRESS:
EMAIL ADDRESS:
PHONE: (404) 569-8701
6. TOTAL SITE AREA = 23.94 AC.
TOTAL DISTURBED AREA = 8.63 AC.
7. THE GPS LOCATION OF THE CONSTRUCTION EXIT FOR THE SITE IS LOCATED ON 33.47585°N, 84.39517°W.
8. INITIAL DATE OF THE PLAN:
SEE REVISION REFERENCE LOCATED ON ER-000 FOR DATES OF ANY REVISIONS MADE TO THE PLAN INCLUDING THE ENTITY WHO REQUESTED THE REVISIONS.

PROJECT NARRATIVE

THE NATURE OF CONSTRUCTION ACTIVITY IS THE CONSTRUCTION OF A FIRE/EMS TRAINING FACILITY CONSISTING OF A DRIVING COURSE, VEHICLE EXTRACTOR, TOWER LIFT, TOWERING BUILDING, PUMP TEST AREA, SEPTIC DRAIN FIELDS, MUDPOND, FOREYARDS AND DETENTION POND.

10. VICINITY MAP SHOWING SITE'S RELATION TO SURROUNDING AREAS IS LOCATED ON ER-000. SURROUNDED BY UNDEVELOPED OPEN SPACE.

11. THE RECEIVING WATERS FROM THIS CONSTRUCTION PLAN IS FLINT RIVER WHICH IS A PART OF THE GREATER FLINT WATERSHED BASIN.

12. "I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."

SIGNATURE: _____ DATE: _____

13. "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERFORMED, PROVIDED FOR THE SAMPLING OF THE RECEIVING WATERS) OR THE SAMPLING OF THE STORMWATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GA0100001."

SIGNATURE: _____ DATE: _____

14. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION, IN ACCORDANCE WITH PART IV.A.5, PAGE 25 OF THIS PERMIT.
15. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
16. PROVIDE A DESCRIPTION OF ANY BUFFER ENCROACHMENTS AND INDICATE WHETHER A BUFFER VARIANCE IS REQUIRED. NO BUFFER VARIANCE IS REQUIRED.

17. AMENDMENTS/REVISIONS TO THE ES&PC PLAN, WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY A DESIGN PROFESSIONAL.

18. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

19. THE ESCAPE OF SEDIMENT FROM THE SITE SHOULD BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES TO LAND DISTURBING ACTIVITIES.

20. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

21. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

22. ANY CONSTRUCTION ACTIVITY WHICH DISCHARGES STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT MUST COMPLY WITH PART III. C. OF THE PERMIT. THE COMPLETED APPENDIX 1 LISTING ALL THE BMPs THAT WILL BE USED FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO THE IMPAIRED STREAM SEGMENT.

23. A TMDL PLAN FOR SEDIMENT DOES NOT APPLY TO THE RECEIVING WATERS.

READY MIX CHUTE WASH-DOWN

THE WASHING OF READY-MIX CONCRETE DRUMS AND DUMP TRUCK BODIES USED IN THE DELIVERY OF PORTLAND CEMENT CONCRETE IS PROHIBITED ON THIS SITE. IN ACCORDANCE WITH STANDARD SPECIFICATION 107 - "LOCAL REGULATIONS AND RESPONSIBILITY TO THE PUBLIC, ONLY THE DISCHARGE "CHUTE" UTILIZED IN PORTLAND CEMENT CONCRETE DELIVERY MAY BE RINSED FREE OF FRESH CONCRETE REMAINS. THE CONTRACTOR SHALL EXCAVATE A PIT OUTSIDE OF STATE WATER BUFFERS, AT LEAST 25 FEET FROM ANY STORM DRAIN AND OUTSIDE OF THE TRAVEL WAY, INCLUDING SHOULDER, FOR A WASH/PIT AREA. THE PIT SHALL BE LARGE ENOUGH TO STORE ALL WASH-DOWN WATER WITHOUT OVERTOPPING THE PIT. IMMEDIATELY AFTER THE WASH-DOWN OPERATIONS ARE COMPLETED AND AFTER THE WASH-DOWN WATER HAS SOAKED INTO THE GROUND, THE PIT SHALL BE FILLED IN, AND THE GROUND ABOVE SHALL BE GRADED TO MATCH THE ELEVATION OF THE SURROUNDING AREAS SMOOTHED OUT. ALTERNATE WASH-DOWN PLANS MUST BE APPROVED BY THE PROJECT ENGINEER.

WASH-DOWN PLANS DESCRIBE PROCEDURES THAT PREVENT WASH-DOWN WATER FROM ENTERING STREAMS AND RIVERS. NEVER DISPOSE OF WASH-DOWN WATER DOWN A STORM DRAIN. ESTABLISH A WASH-DOWN PIT LOCATION THAT INCLUDES THE FOLLOWING: (1) THE PIT IS LOCATED AWAY FROM A STORM DRAIN, STREAM OR RIVER; (2) THE PIT IS ACCESSIBLE TO THE VEHICLE BEING USED FOR WASH-DOWN; (3) THE PIT HAS ENOUGH VOLUME FOR WASH-DOWN WATER; AND (4) MAKE SURE YOU HAVE PERMISSION TO USE THE AREA FOR WASH-DOWN. ON SOME SITES, YOU MAY NOT HAVE PERMISSION OR ACCESS TO A LOCATION WHICH ALLOWS FOR A WASH-DOWN PIT. IN THOSE CASES, THE CONTRACTOR MAY HAVE TO WASH-DOWN IN A WHEELBARROW OR OTHER CONTAINER AND CARRY THE CONTAINER FOR TRANSPORT TO A PROPER DISPOSAL SITE. FOR ADDITIONAL INFORMATION, REFER TO THE GEORGIA SMALL BUSINESS ENVIRONMENTAL ASSISTANCE PROGRAM'S "A GUIDE FOR READY MIX CHUTE/HOPPER WASH-DOWN."

SILT FENCE INSTALLATIONS WITH J-HOOKS AND SPIRS

SILT FENCE SHOULD NEVER RUN CONTINUOUS WITHOUT J-HOOKS OR SPIRS. THE SILT FENCE SHOULD TURN BACK INTO THE FILL OR SLOPE TO CREATE SMALL POCKETS THAT TRAP SILT AND FORCE STORMWATER TO FLOW THROUGH THE SILT FENCE. THIS TECHNIQUE OR CONFIGURATION IS COMMONLY REFERRED TO AS J-HOOKS OR SPIRS. THE J-HOOKS OR SPIRS SHALL BE INSTALLED ON ALL SILT FENCES THAT ARE LOCATED AROUND THE PERIMETER OF THE PROJECT AND ALONG THE TOE OF EMBANKMENTS OR SLOPES. THE J-HOOKS AND SPIRS SHALL BE SPACED IN ACCORDANCE WITH THE TYPICAL LOCATION DETAILS FOR SILT FENCES / BALED STRAW SPACING FOR J-HOOKS OR SPIRS SHALL NOT BE LESS THAN 50 FEET EXCEPT AS NOTED. SILT FENCES THAT ARE NEAR THE OUTLET OF CULVERTS, CROSS DRAINS, AND STORM DRAINS SHALL HAVE A MINIMUM OF 5 J-HOOKS OR SPIRS ON BOTH SIDES OF THE STRUCTURE AT SPACING NOT TO EXCEED 30 FEET. J-HOOKS OR SPIRS SHALL BE PAID FOR AS SILT FENCE ITEMS PER FOOT. ALL COSTS AND OTHER INCIDENTAL ITEMS ARE INCLUDED IN COST OF INSTALLING AND MAINTAINING THE SILT FENCE.

SPILL CLEANUP AND CONTROL PRACTICES

1. LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE AVAILABLE TO SITE PERSONNEL.
2. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
3. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
4. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
5. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
6. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
7. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
8. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE SILT FENCE WILL BE CLEANED UP AND LOCAL AREAS WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS THE CAPACITY OF GREATER THAN 650 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND CONTROLMESURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

THIS CONSTRUCTION PROJECT DISCHARGES INFO. OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT.

POST-CONSTRUCTION BMPs

ALL PERMANENT, POST-CONSTRUCTION BMPs ARE SHOWN IN THE CONSTRUCTION PLANS AND IN THE ES&PC PLAN. THE POST-CONSTRUCTION BMPs FOR THIS PROJECT CONSISTS OF PERMANENT MULCHING, SLOPE STABILIZATION AND STORM DRAIN OUTLET PROTECTION. THE POST-CONSTRUCTION BMPs WILL PROVIDE PERMANENT STABILIZATION OF THE SITE AND PREVENT ACCELERATED TRANSPORTATION OF SEDIMENT AND POLLUTANTS INTO RECEIVING WATERS.

OTHER CONTROLS

THE ES&PC PLAN SHALL BE IN COMPLIANCE WITH WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS DURING AND AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.

THE CONTRACTOR SHALL CONTROL DUST FROM THE SITE IN ACCORDANCE WITH CURRENT EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

FOR BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS ON THE SITE, PROVIDE COVER (E.G. PLASTIC SHEETING, TEMPORARY ROOFS) TO MINIMIZE THE EXPOSURE OF THESE PRODUCTS TO PRECIPITATION AND TO STORMWATER, OR A SIMILARY EFFECTIVE MEANS TO DESIGNED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THESE AREAS. MINIMIZATION OF EXPOSURE IS NOT REQUIRED IN CASES WHERE EXPOSURE TO PRECIPITATION AND TO STORMWATER WILL NOT RESULT IN A DISCHARGE OF POLLUTANTS, OR WHERE EXPOSURE OF A SPECIFIC MATERIAL OR PRODUCT POSES LITTLE RISK TO STORMWATER CONTAMINATION (SUCH AS FILL PRODUCTS AND MATERIALS INTENDED FOR OUTDOOR USE).

PRODUCT SPECIFIC PRACTICES

1. PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLES AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINS, AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LAYER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SEPARATE CONTAINER AND DISPOSAL IS REQUIRED BY LOCAL AND STATE REGULATIONS. PAINTS/ENGLISHSOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED INTO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT WILL BE STORED WITH THESE PRODUCTS, AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
2. CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASHOUT OR DISCHARGE SURPLUS CONCRETE OR DRINK WATER ON THE SITE.
3. FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR ON THE GSWC MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA. ANY REMAINS OF THESE MATERIALS WILL BE REMOVED FROM THE SITE.
4. BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

WASTE DISPOSAL

LOCATE WASTE COLLECTION AREAS AWAY FROM STREETS, GUTTERS, INTERCOURSES AND STORM DRAINS. WASTE COLLECTION AREAS, SUCH AS DUMPSTERS, ARE OFTEN BEST LOCATED NEAR CONSTRUCTION SITE ENTRANCES TO MINIMIZE TRAFFIC ON DISTURBED SLOES. THE PLAN SHOULD INCLUDE WASTE COLLECTION AREAS AROUND LIQUID WASTE COLLECTION AREAS TO FURTHER MINIMIZE THE LIKELIHOOD OF CONTAMINATION DISCHARGES. SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY SECTION 404 PERMIT.

28. THIS ES&PC PLAN EMPLOYS SEVERAL PRACTICES THAT ARE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES. SEVERAL EROSION CONTROL BMPs ARE USED TO REDUCE THE AMOUNT OF SEDIMENT RUNNING OFF SITE, INCLUDING SLOPE STABILIZATION, CHECK DAM, RETROFIT, SEDIMENT BARRIER WITH MULCH, INLET SEDIMENT TRAPS WITH EXCAVATED INLET, INLET SEDIMENT TRAP, AND STORM DRAIN OUTLET PROTECTION.

SEQUENCE OF LAND DISTURBANCE ACTIVITIES

START MAY, 2022
STOP AUGUST, 2022

ANTICIPATED CONSTRUCTION ACTIVITY SCHEDULE

CONSTRUCTION ACTIVITY	MAY	JUNE	JULY	AUGUST
INSTALL CONSTRUCTION EXIT				
INSTALL SEDIMENT CONTROL				
MAINTAIN SEDIMENT CONTROL DEVICES				
CLEARING AND DRAINING				
INSTALL A TEMPORARY SEDIMENT CONTROL DEVICES				
PERFORM LANDSCAPING & STABILIZE DRAIN				
COMPLETE SITE & REMOVE TEMPORARY BMPs				

INSPECTIONS

1. EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (a) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; AND (b) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
2. MAINTAIN AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.
3. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY, OR ANY NON-WORKING FEDERAL HOLIDAY). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED. THE INSPECTIONS MUST BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (a) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (b) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (c) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE INSPECTED TO ENSURE THAT THEY ARE OPERATING CORRECTLY, WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE. THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. IF AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
4. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THE PERMIT (i.e., UNTIL AT NOTICE OF TERMINATION HAS BEEN SUBMITTED) THE AREAS OF THE SITE THAT STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATERS). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS).
5. BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
6. A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (i.e., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.(5). OF THE PERMIT, SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY THE END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ANY INCIDENTS. BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN, WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

SAMPLING FREQUENCY

1. THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORMWATER DISCHARGE, AFTER A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
2. HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.
3. SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:
 - A. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT, AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION;
 - B. IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO THE SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST;
 - C. AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPs IN ANY AREA OF THE

- A. SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;
- B. WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE IS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND
- C. EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B), THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

REPORTING

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART I.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT, UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORMWATER DISCHARGE(S) OR THE RECEIVING WATERS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:
 - A. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
 - B. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND ANALYSES;
 - C. THE DATES) ANALYSES WERE PERFORMED;
 - D. THE TIME(S) ANALYSES WERE INITIATED;
 - E. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
 - F. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
 - G. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READINGS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
 - H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.
3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

RETENTION OF RECORDS

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
 - A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
 - B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
 - C. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
 - D. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
 - E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
 - F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART II.D.2. OF THIS PERMIT; AND
 - G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2) OF THIS PERMIT.
2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STOP CHART RECORDS FOR CONTINUOUS MONITORING INSTRUMENTATION), OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE SUBMITTED TO THE PERMITTEE, AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

SAMPLING TYPE

1. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
2. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
3. LARGE MOUTH, CLEAN AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
4. MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
5. SAMPLING AND ANALYSIS OF THE RECEIVING WATERS) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART I.V.E.

SAMPLING POINTS

1. CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATERS(S), OR ALL OUTFALLS), OR A COMBINATION OF RECEIVING WATERS(S) AND OUTFALLS), SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATERS(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING METHODS:
 - A. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORMWATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY, WHERE APPROPRIATE. SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATERS) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
 - B. THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORMWATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY, WHERE APPROPRIATE. SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATERS) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
 - C. IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM OUTFALL CHANNEL(S).
 - D. CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATERS(S) OR IN THE OUTFALL STORMWATER CHANNEL.
 - E. THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
 - F. THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
 - G. PERMITTEES DO NOT HAVE TO SAMPLE SHEETPILLOW THAT FLOWS INTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR IMPAIRED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL. 100% OF THE SOIL SURFACE SHALL BE UNIFORM COVERED IN PERMANENT VEGETATION WITH A MINIMUM OF 70% OF THE SOIL SURFACE COVERED BY PERMANENT VEGETATION OR THE PLAN UNIFORMITY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS, OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION).
 - H. ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS II.D.3. OR II.D.4., WHICHEVER IS APPLICABLE.

OUTFALL SAMPLING

1. MANUAL SAMPLING - GRAB SAMPLES WILL BE TAKEN AT THE APPROPRIATE TIME AS STATED IN PART IV.D.6.D. OF THE PERMIT. SAMPLING WILL OCCUR AT THE DESIGNATED REPRESENTATIVE OUTFALL. THE SAMPLE WILL BE TAKEN IN THE CENTER OF THE OUTFALL CHANNEL, A LARGE MOUTH, CLEAN, GLASS OR PLASTIC JAR/BOTTLE, LABELED WITH PROJECT NUMBER AND LOCATION WILL BE USED TO COLLECT THE SAMPLE. THE SAMPLE LOCATION WILL BE HELD SUCH THAT THE OPENING FACES UPSTREAM. ONCE THE SAMPLE JAR/BOTTLE IS FULL AND CAPPED, IT WILL BE TRANSPORTED TO THE LOCATION WHERE THE TURBIDITY TESTING WILL BE CONDUCTED. SAMPLES MAY BE ANALYZED AT THE SITE WITH PROPERLY CALIBRATED PORTABLE TURBIDIMETERS. ALL TURBIDITY TESTS WILL BE CONDUCTED IMMEDIATELY BUT IN NO CASE, LATER THAN 48 HOURS AFTER THE TIME THE SAMPLE WAS OBTAINED.
2. AUTOMATIC SAMPLING - GRAB SAMPLES WILL BE TAKEN AT THE APPROPRIATE TIMES AS SPECIFIED IN PART IV.D.6.D. OF THE PERMIT. MASS GRADING OPERATIONS MAY BE ACCOMPANIED BY USING A SAMPLING DEVICE SIMILAR TO THE ISCO MODEL 3700 OR 6700. THE PROBE FOR THE AUTOMATIC SAMPLER WILL BE PLACED IN THE CENTER OF THE CHANNEL. SAMPLES WILL REMAIN IN THE AUTOMATIC SAMPLER UNTIL THE NEXT BUSINESS DAY, WHEN THEY WILL BE COLLECTED AND TESTED.
3. TESTING - ALL TURBIDITY TESTS SHALL BE DONE IN ACCORDANCE WITH 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD. TURBIDITY RESULTS WILL BE REPORTED AND REPORTED TO EPD AND THE IJA, IF APPLICABLE, IN ACCORDANCE WITH PART I.V.E. OF THE PERMIT.

RECEIVING WATER SAMPLING

1. MANUAL SAMPLING - SAMPLES WILL BE TAKEN AT THE APPROPRIATE TIME AS STATED IN PART IV.D.5. D. OF THE PERMIT. SAMPLING WILL BEGIN AT THE DESIGNATED REPRESENTATIVE RECEIVING WATER AT THE DOWNSTREAM LOCATION FIRST. THE SAMPLE WILL BE TAKEN AS FAR DOWNSTREAM (WITHIN THE PROJECT LIMITS ONSET) OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE POINT, AND UPSTREAM OF ANY ADDITIONAL DISCHARGES NOT ASSOCIATED WITH THE PROJECT. THE SAMPLE WILL BE TAKEN IN THE CENTER OF THE RECEIVING WATER AT A POINT WHERE MIXING OF THE RECEIVING WATERS AND THE PROJECT OUTFALL HAS OCCURRED AND PRODUCED A HOMOGENEOUS SAMPLE. ON RECEIVING WATERS, WHERE ACCESS TO THE CENTER OF THE RECEIVING WATERS IS NOT PRACTICAL, SEVERAL SAMPLES FROM ACROSS THE RECEIVING WATERS WILL BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES WILL BE USED FOR THE UPSTREAM VALUE. A LARGE MOUTH, CLEAN, GLASS OR PLASTIC JAR/BOTTLE, LABELED WITH PROJECT NUMBER AND LOCATION WILL BE USED TO COLLECT THE SAMPLE. THE SAMPLE CONTAINER WILL BE HELD SUCH THAT THE OPENING FACES UPSTREAM. ONCE THE SAMPLE JAR/BOTTLE IS FULL AND CAPPED, IT WILL BE TRANSPORTED TO THE LOCATION WHERE THE TURBIDITY TESTING WILL BE CONDUCTED. SAMPLES MAY BE ANALYZED AT THE SITE WITH PROPERLY CALIBRATED PORTABLE TURBIDIMETERS. ALL TURBIDITY TESTS WILL BE CONDUCTED IMMEDIATELY BUT IN NO CASE, LATER THAN 48 HOURS AFTER THE TIME THE SAMPLE WAS OBTAINED.
2. UPSTREAM SAMPLES WILL BE TAKEN AFTER DOWNSTREAM SAMPLES HAVE BEEN ACQUIRED. THE SAMPLE WILL BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PROJECT (WITHIN THE PROJECT LIMITS ONSET). THE SAMPLE WILL BE TAKEN IN THE CENTER OF THE RECEIVING WATER. ON RECEIVING WATERS WHERE ACCESS TO THE CENTER OF THE RECEIVING WATERS IS NOT PRACTICAL, SEVERAL SAMPLES FROM ACROSS THE RECEIVING WATERS WILL BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES WILL BE USED FOR THE UPSTREAM VALUE. A LARGE MOUTH, CLEAN, GLASS OR PLASTIC JAR, LABELED WITH PROJECT NUMBER AND LOCATION WILL BE USED TO COLLECT THE SAMPLE. THE SAMPLE CONTAINER WILL BE HELD SUCH THAT THE OPENING FACES UPSTREAM. ONCE THE SAMPLE JAR/BOTTLE IS FULL AND CAPPED, IT WILL BE TRANSPORTED TO THE LOCATION WHERE THE TURB

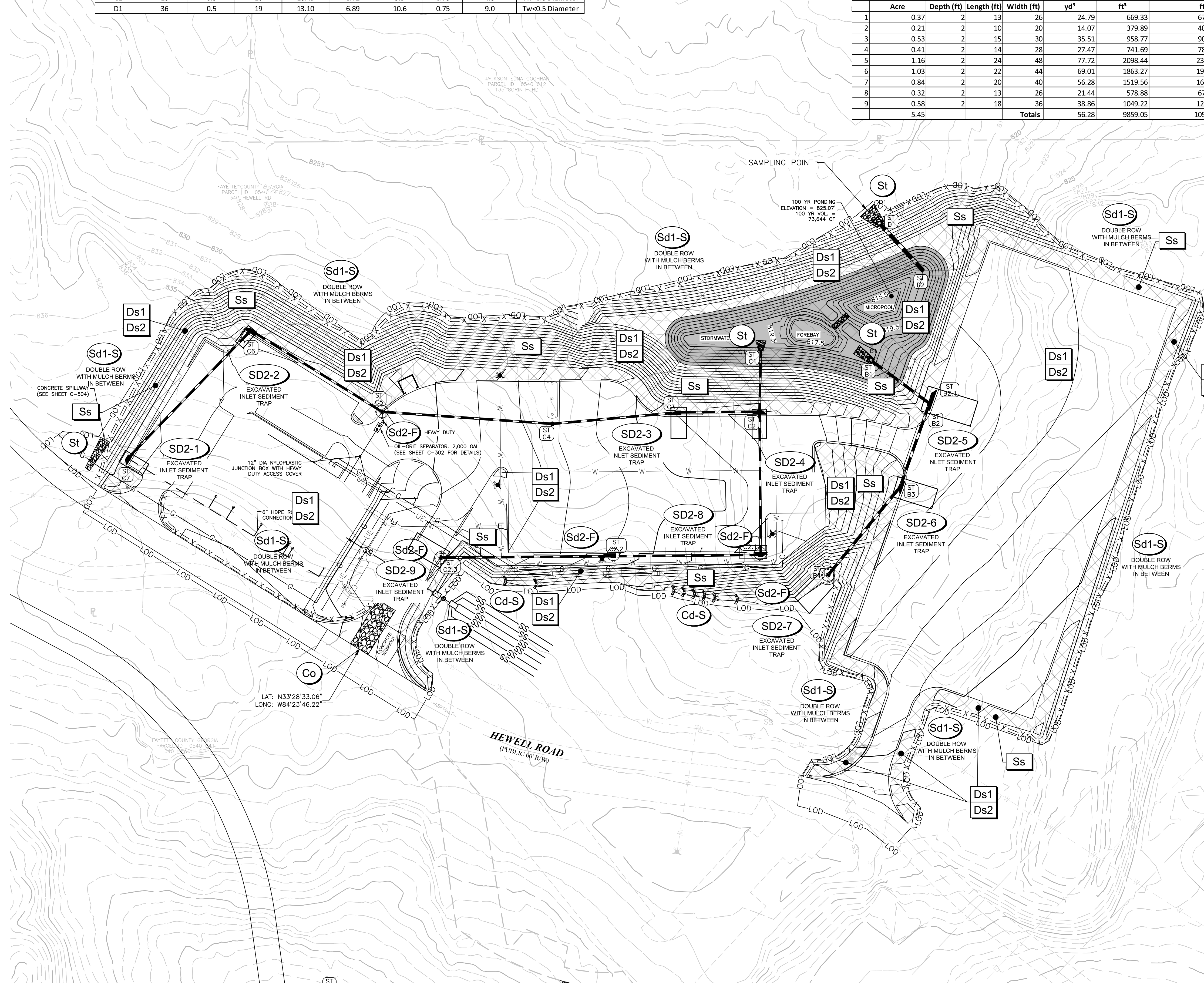
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Storm Drain Outlet Protection Chart

Outlet Structure Number	Outlet Pipe Diam. "Do" (in)	Avg. Stone Diam. "d50" (ft)	Length "La" (ft)	Outlet Pipe Full Flow "Q" (cfs)	Outlet Pipe Velocity "V" (fps)	Downstream Width "Ws" (ft)	Stone Depth "D" (ft)	Width at the Headwall "Wh" (ft)	Tailwater Condition
B1	24	0.5	20	12.29	7.37	10.0	0.75	6.0	Tw>0.5 Diameter
C1	18	0.5	10	18.49	6.72	5.5	0.75	4.5	Tw>0.5 Diameter
D1	36	0.5	19	13.10	6.89	10.6	0.75	9.0	Tw>0.5 Diameter

SEDIMENT STORAGE										
BASIN	DRAINAGE AREA		DISTURBED AREA		SEDIMENT STORAGE (CY)		SILT FENCE		Sd2-EX	
NAME	SF	AC	SF	AC	REQ'D SEDIMENT STORAGE	SEDIMENT STORAGRE PROVIDED	LF	SEDIMENT STORAGE (CY)	EACH	SEDIMENT STORAGE (CY)
A	592851.60	13.61	359805.60	8.26	553	1184	2637	791.1	9	393
TOTAL	592851.60	13.61	359805.60	8.26	553	1184	2637	791.1	9	393

Sd2	Drainage Area	Dimensions			Required Sediment Storage		Provided Sediment Storage
	Acre	Depth (ft)	Length (ft)	Width (ft)	yd ³	ft ³	ft ³
1	0.37	2	13	26	24.79	669.33	676
2	0.21	2	10	20	14.07	379.89	400
3	0.53	2	15	30	35.51	958.77	900
4	0.41	2	14	28	27.47	741.69	784
5	1.16	2	24	48	77.72	2098.44	2304
6	1.03	2	22	44	69.01	1863.27	1936
7	0.84	2	20	40	56.28	1519.56	1600
8	0.32	2	13	26	21.44	578.88	676
9	0.58	2	18	36	38.86	1049.22	1296
	5.45			Totals	56.28	9859.05	10572



EROSION CONTROL NOTES

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.

EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. PRACTICES WILL BE CHECKED DAILY.

NO LAND DISTURBANCE, CONSTRUCTION PROCESSES, OR STORAGE OF EQUIPMENT OR MATERIALS SHALL TAKE PLACE WITHIN A DESIGNATED TREE PROTECTION AREA IN ORDER TO PREVENT DIRECT PHYSICAL ROOT DAMAGE THAT OCCURS DURING SITE CLEARING AND GRADING AND CAN CAUSE TRANSPORT OR FEEDER ROOTS TO BE CUT, TORN, OR REMOVED; INDIRECT ROOT DAMAGE CAUSED FROM GRADE CHANGES; AND TRUNK AND CROWN DAMAGE CAUSED BY DIRECT CONTACT WITH LAND CLEARING MACHINERY OR GALLING OF ADJACENT TREES.

USE OF ALTERNATIVE BMPs WHOSE PERFORMANCE HAS BEEN DOCUMENTED TO BE EQUIVALENT TO OR SUPERIOR TO CONVENTIONAL BMPs AS CERTIFIED BY A DESIGN PROFESSIONAL (UNLESS DISAPPROVED BY EPD OR THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION). PLEASE REFER TO THE ALTERNATIVE BMP GUIDANCE FOUND AT www.gaswcc.georgia.gov.





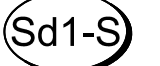
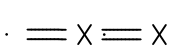
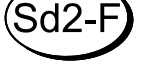

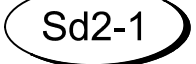
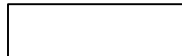

USE OF ALTERNATIVE BMP FOR APPLICATION TO THE EQUIVALENT BMP LIST. PLEASE REFER TO APPENDIX A-2 OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA 2016 EDITION.

INTERMEDIATE PHASE II NARRATIVE:

AFTER PERIMETER CONTROL BMPs IN THE INITIAL PHASE ARE INSTALLED AND FUNCTIONING PROPERLY, GRADING OPERATIONS CAN COMMENCE. EXCAVATED SEDIMENT TRAPS AND FILTER FABRIC WITH SUPPORTING FRAMES ARE TO BE INSTALLED AROUND PROPOSED INLETS AS SHOWN. SLOPE STABILIZATION IS TO BE INSTALLED ALONG THE SLOPES AS SHOWN. DISTURBED AREA STABILIZATION SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE MANUAL, AND INSPECTIONS SHALL BE DONE PER APPENDIX 1, (e) AND (g).


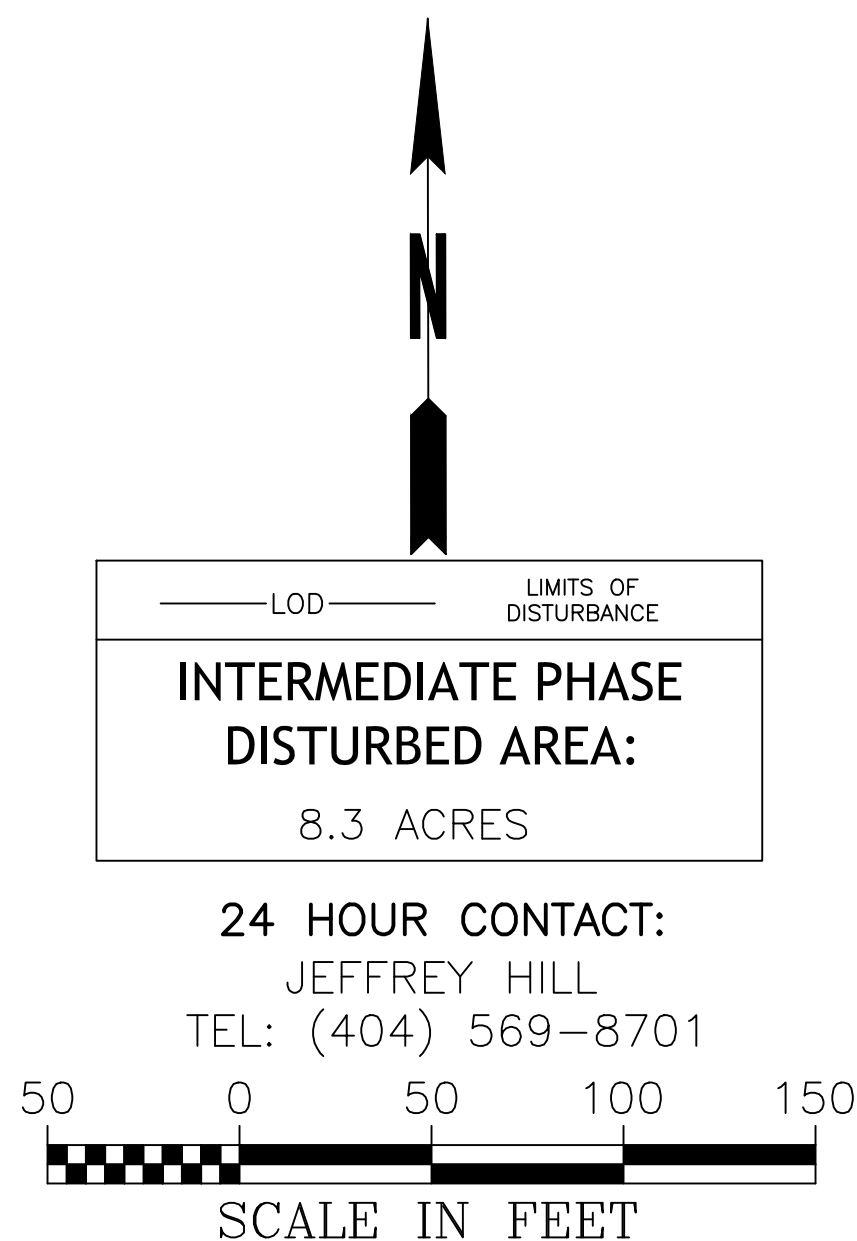
INITIAL PHASE BMPs SHALL BE MAINTAINED AS SHOWN THROUGH THE INTERMEDIATE PHASE. CLEAN OUT ACCUMULATED SILT AND SEDIMENT STORED IN BMPs. IMPLEMENTATION AND MAINTENANCE OF ALL BMPs SHALL BE ACCORDING TO THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. DETAILS FOR THE PROPOSED BMPs ARE INCLUDED ON SHEETS FR-400-401.

STRUCTURAL BMP LEGEND

		CONSTRUCTION EXIT
		CHECK DAM - STONE
		DOUBLE ROW SILT FENCE-TYPE SENSITIVE WITH MULCH BERMS IN-BETWEEN
		INLET SEDIMENT TRAP-FILTER FABRIC WITH SUPPORTING FRAME
		INLET SEDIMENT TRAP-EXCAVATED
		STORM DRAIN OUTLET PROTECTION

VEGETATIVE BMP LEGEND

DS1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
DS2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
SS	SLOPE STABILIZATION



200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
MARIETTA, GA 30062
PHONE: (770) 971-5407 FAX: (770) 971-0620

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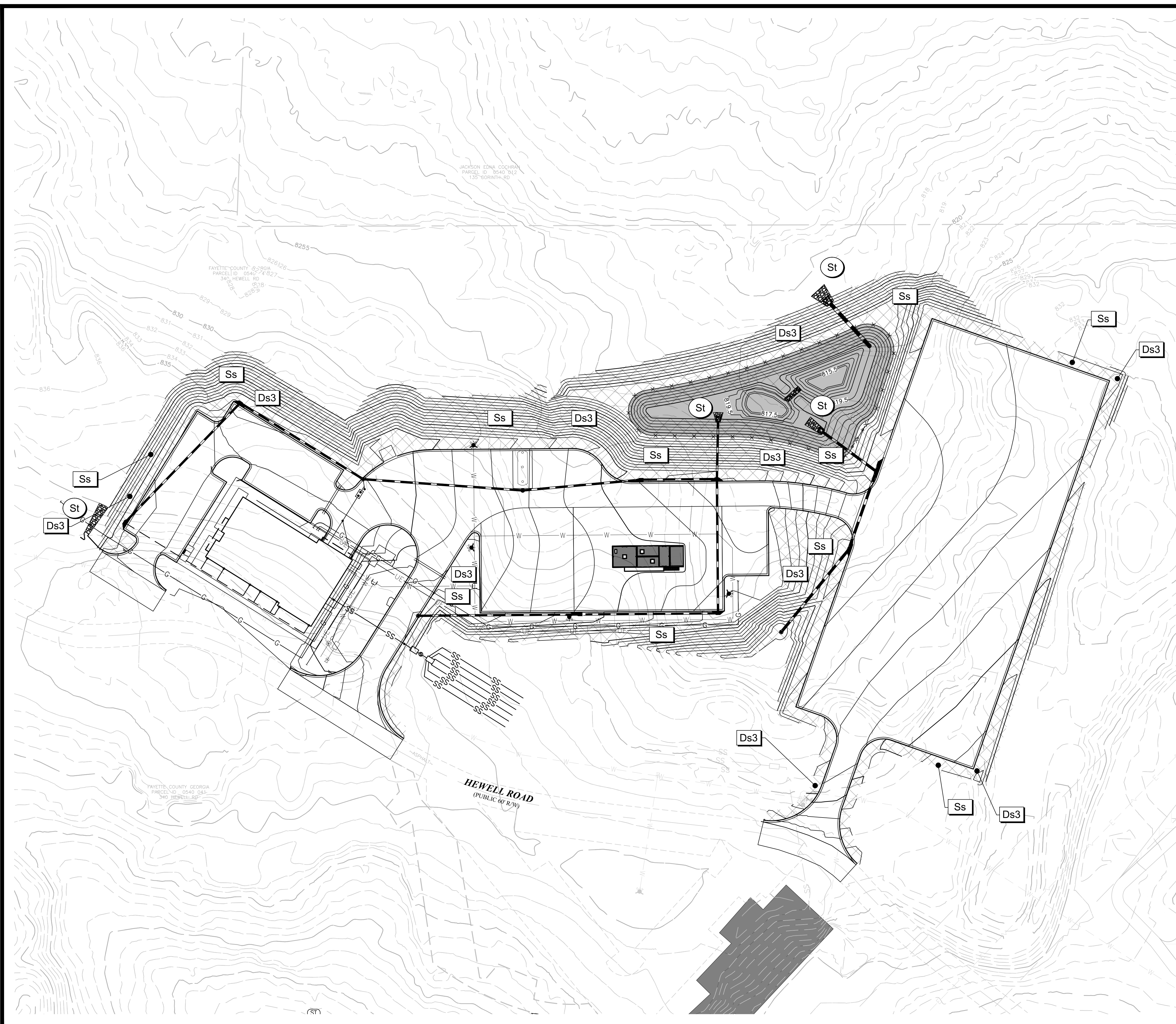
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FAYETTE COUNTY FIRE & EMS TRAINING FACILITY

DESIGN PHASE

LAND LOT(S) 172
OF THE 01 DISTRICT, 5TH SECTION
FAYETTE COUNTY, GA

NOT ISSUED FOR CONSTRUCTION



EROSION CONTROL NOTES

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.

EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. PRACTICES WILL BE CHECKED DAILY.

NO LAND DISTURBANCE, CONSTRUCTION PROCESSES, OR STORAGE OF EQUIPMENT OR MATERIALS SHALL TAKE PLACE WITHIN A DESIGNATED TREE PROTECTION AREA IN ORDER TO PREVENT DIRECT PHYSICAL ROOT DAMAGE THAT OCCURS DURING SITE CLEARING AND GRADING AND CAN CAUSE TRANSPORT OR FEEDER ROOTS TO BE CUT, TORN, OR REMOVED; INDIRECT ROOT DAMAGE CAUSED FROM GRADE CHANGES; AND TRUNK AND CROWN DAMAGE CAUSED BY DIRECT CONTACT WITH LAND CLEARING MACHINERY OR GALLING OF ADJACENT TREES.

USE OF ALTERNATIVE BMPs WHOSE PERFORMANCE HAS BEEN DOCUMENTED TO BE EQUIVALENT TO OR SUPERIOR TO CONVENTIONAL BMPs AS CERTIFIED BY A DESIGN PROFESSIONAL (UNLESS DISAPPROVED BY EPA OR THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION). PLEASE REFER TO THE ALTERNATIVE BMP GUIDANCE FOUND AT www.gaswcc.georgia.gov.

USE OF ALTERNATIVE BMP FOR APPLICATION TO THE EQUIVALENT BMP LIST. PLEASE REFER TO APPENDIX A-2 OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA 2016 EDITION.

FINAL PHASE NARRATIVE:

ONCE THE GRADING IS COMPLETE ACCUMULATED SEDIMENT FROM BMP SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY IN PREPARATION OF FINAL CONSTRUCTION. PERMANENT GRASSING AND SLOPE STABILIZATION WILL BE INSTALLED AND MAINTAINED AS SHOWN. ONCE AREAS OF DISTURBANCE IN THIS PHASE ARE COMPLETELY STABILIZED AND ALL PERMANENT BMPs ARE IN PLACE AND FUNCTIONING PROPERLY, ALL TEMPORARY BMPs SHALL BE REMOVED. DFR APPENDIX 1, (u).

IMPLEMENTATION AND MAINTENANCE OF ALL BMPs SHALL BE ACCORD
TO THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. DET
FOR THE PROPOSED BMPs ARE INCLUDED ON SHEETS ER-400-401.

STRUCTURAL BMP LEGEND

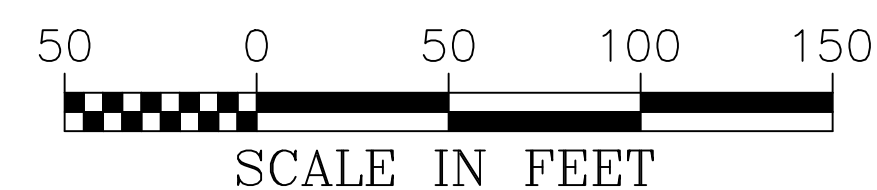
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VEGETATIVE BMP LEGEND

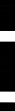
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Ss

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DESIGN PHASE

LAND LOT(S) 172
OF THE 01 DISTRICT, 5TH SECTION
----, FAYETTE COUNTY, GA

NOT ISSUED FOR CONSTRUCTION

SHEET TITLE
EROSION CONTROL
PLAN - FINAL PHASE

DRAWN BY
ORG

SCALE
1"=50'

ER-300

Plot Scale: 1"= 50' Drawing Rotation: 0.0° Plot Style: Design.ctb. Plotted By: Chris Wolle on 10/28/2022 8:12 AM

