

October 25, 2024

**Subject: ITB 2489-B: Fayette County Tactical Driving Course – Phase II Infield
Construction
Addendum 1**

Are the contractors responsible for clearing the trees?

Yes, contractors are responsible for clearing all trees and shrubs within the limits of disturbance. This includes removing all trees around the existing pond.

Who is responsible for the transformer?

The County will include an allowance for Georgia Power associated costs. **See Attachment 1.**

How are you proposing to get GA Power over?

Georgia Power will bore under the track where needed.

Who is responsible for the shipping containers?

The County will confirm the design with the manufacturer. The Allowance item includes installation by the Manufacturer. The Contractor will be responsible for coordination and management. See below for information regarding the pad and slab for the viewing towers.

Will more dirt be needed? Who will be responsible for hauling?

The previous contractor from Phase I used some of the dirt within the infield, but it is designed to balance out. Where approved by the engineer, the design may be altered to achieve site balance. Contractors should bid accordingly as the County will not pay for borrow dirt if it is required.

Are there any plans for the guardrail locations?

See the updated plans for all proposed guardrail locations. **See Attachment 2.**

Will there be any asphalt removed?

No.

How are we getting power to the inner loop?

Georgia Power's contractor will install power lines by boring under the track where needed.

Will the allowance for the towers include the concrete pads?

See the updated bid form. Concrete pad prep and pour is a separate bid item. At the two tower locations shown on the plans, the contractor should include all costs associated with grading a flat pad, 30'x20'. For the foundation slab, Contractor should include the cost of 6" gravel base, concrete slab 10'x20', 4" thick with 2'x2' turned down footers and necessary rebar. **See Attachment 1.**

Will we reuse the headwall?

This is up to the Contractor.

Who is responsible for removing the existing erosion control?

The Phase II contractor will be responsible for removing the erosion control for the whole site. Because this site is under the same LDP as the Fire/EMS site across the road, the bid item for removal of existing erosion control includes removing the BMP's for the Fire/EMS side of the site as well. The site plans for the Fire/EMS site are included with this addendum for reference. **See Attachment 3.**

Additional Information:

As a part of the addendum, please see the revised page C-215 which updates the typical trench detail parallel to the road. During construction, this trench detail should be used for the proposed ditch on the interior of the internal track and loop track. **See Attachment 4.**

The updated plans show an access road to the lower viewing tower. Because this access road will cross the existing drainage ditch along the external track, a culvert is needed to channel the water. This culvert is not shown on the plans but is included as a new bid item. This culvert should be constructed with 18" RCP and two flared end sections. **See Attachment 2.**

Remove references on the plans to double yellow thermoplastic striping. It is still shown on the plans but has been removed from the bid form and is no longer part of the track.

This bid includes additional guardrail which will complete a full enclosure around the external track. The contractor should tie proposed guardrail into the existing guardrail where necessary. **See Attachment 1.**

There shall be a 26' access gate installed on each access road to the track. This item is now included on the bid form. Contractors should price S-Series Tubular Barrier Double Gate in Galvanized Steel by Hoover Fence Co. (Item # HCG-S-4X26DB-KIT-G) or approved equal. **See Attachment 1.**

Each contractor must submit a proposed project schedule along with this bid. As a reminder, the Owner expects work to begin upon issuance of the Notice to Proceed which is anticipated in early December.

Please be sure to you submit your bid on the updated Stipulated Sum Construction Cost Form. A bid submitted on the earlier form would be considered incomplete and may be disqualified.

An additional item on the bid form is to perform a 2" Mill and Resurface of the rear parking lot of the Sheriff's Office Training Building. See the image below for the location of this parking lot.



Received by (Name): _____ Company _____

Note: If this addendum is not returned to the Fayette County Purchasing Department or if it is returned not signed, responding individuals, companies or other organizations will still be responsible for the requirements of this addendum and the specifications or changes herein.

The opening date for this ITB has not changed. **The opening time and date are 3:00p.m., Wednesday, November 6, 2024.** Bids must be received by the Purchasing Department at the address above, Suite 204, at or before the opening date and time.

The deadline for inquiries has passed, so the Purchasing Department will not be able to accept any additional questions after this time.

If you have questions, please contact Colette Cobb, Contract Administrator at (770) 305-5115, email at ccobb@fayettecountyga.gov .

Sincerely,

A handwritten signature in blue ink, appearing to read "Ted L. Burgess", enclosed within a large, loopy blue oval.

Ted L. Burgess
Chief Procurement Officer

Stipulated Sum Construction Cost

ATTACHMENT 1
Revised 10/25/24

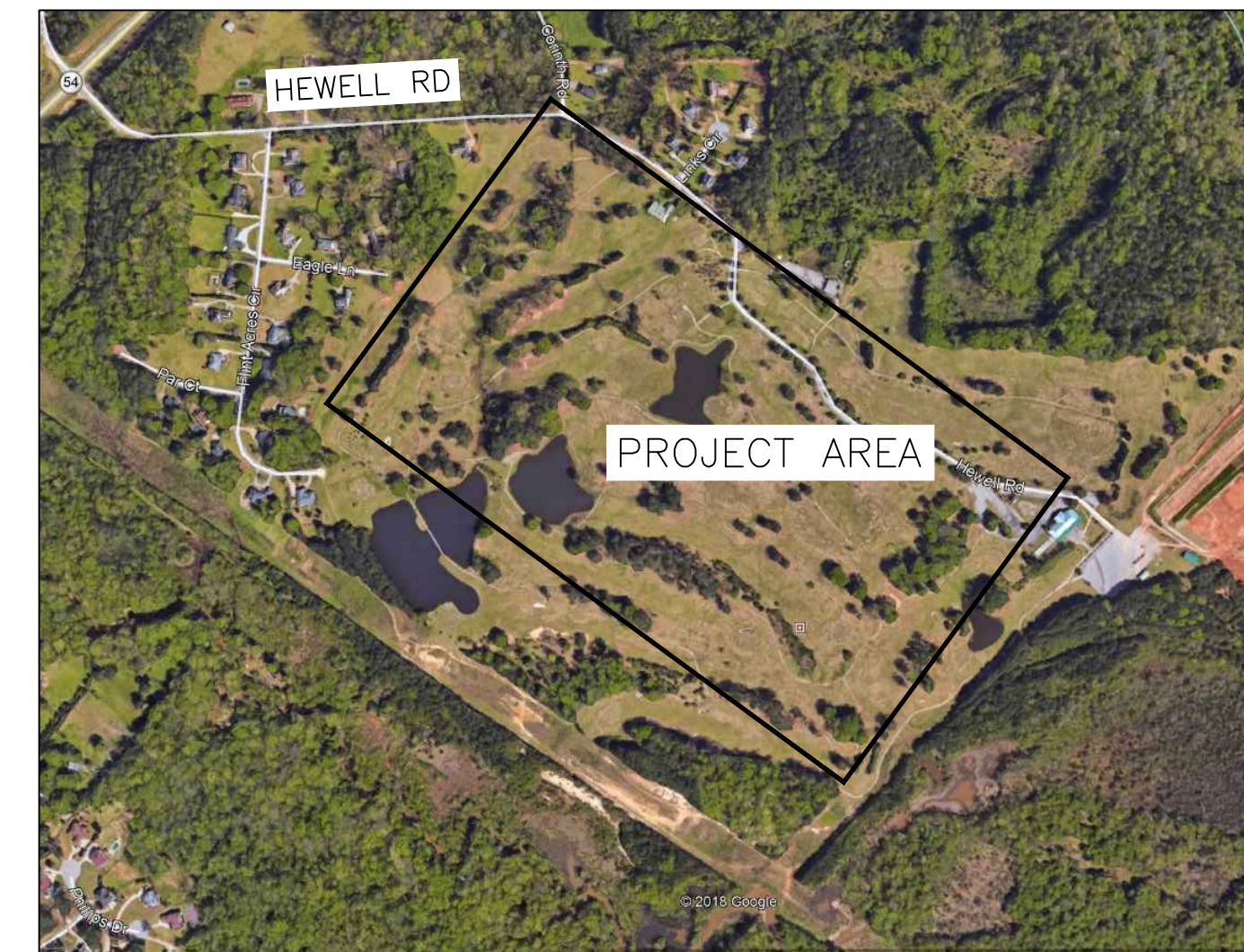
			Bid Unit Price	Bid Quantity	Units	Bid Item Total
BASE BID - Vehicle Track Infield Facility						
Section A - General Conditions						
101	Permits (BY OWNER)	\$		1	LS	
102	Mobilization	\$		1	LS	
103	Performance & Payment Bond	\$		1	LS	
104	General Conditions	\$		1	LS	
Sub Total Section A - General Conditions						
Section B - Existing Conditions						
201	Site Clearing	\$		1	LS	
202	Demolition	\$		1	LS	
Sub Total Section B - Existing Conditions						
Section C - Grading and Draining						
301	Erosion Control	\$		1	LS	
302	Erosion Control removal inc. Fire/EMS site	\$		1	LS	
303	Grading and Earthwork	\$		1	LS	
304	Infiltration Trenches, Complete	\$		1	LS	
305	E2-E3 24" RCP	\$		160	LF	
306	F1-F2 18" RCP	\$		108	LF	
307	Extend G Line- Dbl. Barrell 24" RCP	\$		60	LF	
308	E2 Headwall	\$		1	EA	
309	E3 Yard Inlet	\$		1	EA	
310	Change F1 to Yard Inlet	\$		1	EA	
311	Relocate G2 & change to Yard Inlet	\$		1	EA	
312	18" RCP culvert @ tower access road	\$		1	LS	
Sub Total Section C - Grading and Drainage						
Section D - Track Construction						
401	8" GAB Subbase	\$		18,977	SY	

402	3" Asphaltic Concrete 19mm Superpave	\$		18,977	SY	
403	1.5" Asphaltic Concrete 12.5mm Superpave	\$		18,977	SY	
404	5" Single White Thermoplastic Striping	\$		7,500	LF	
405	31" W-Beam Guardrail	\$		2,520	LF	
406	Type 1 Guardrail Terminal	\$		3	EA	
407	Type 12A Guardrail Terminal	\$		2	EA	
408	26' Access gate	\$		2	EA	
409	Pad & Slab for viewing towers	\$		2	EA	
410	2" Mill & Resurface SO Training Building Rear Parking Lot	\$		5,900	SY	
Sub Total Section D - Track Construction						
Subtotal- Vehicle Track Infield Facility						

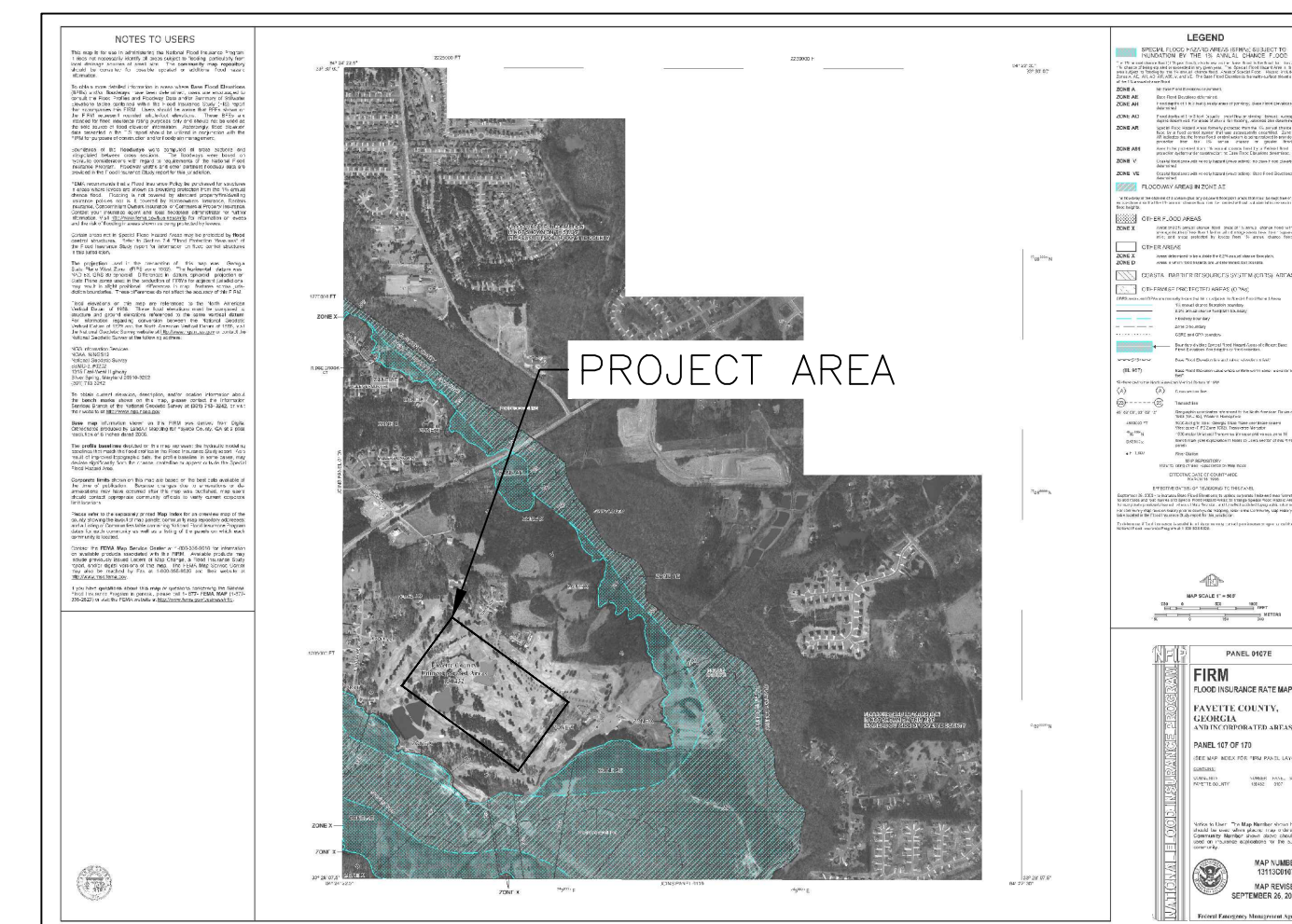
BASE BID - Project Allowances						
901	Project Signage Allowance	\$	1,000.00	1	LS	
902	Viewing Towers – Jenco Containers	\$	225,000	1	LS	
903	Special Allowance for unsuitable conditions	\$	50,000.00	1	LS	
904	Landscaping Allowance	\$	15,000.00	1	LS	
905	Contingency Allowance for Unknowns	\$	75,000.00	1	LS	
906	Georgia Power Allowance	\$	50,000.00	1	LS	
Sub Total- Project Allowances						
Total Base Bid						

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.

LOCATION MAP (NTS)



FEMA MAP



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.

REQUIRED ENGINEER'S INSPECTION

AS PER THE GEORGIA DEPARTMENT OF NATURAL RESOURCES ENVIRONMENTAL PROTECTION DIVISION, NPDES GENERAL PERMITS FOR CONSTRUCTION ACTIVITY GARY00001, GARY00002, & GARY00003, 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 PERMITEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN, EXCEPT WHEN THE PRIMARY PERMITEE 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 PERMITEE WITHIN SEVEN (7) DAYS AND THE PERMITEE 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



Contact 811 before you dig.

24 HOUR CONTACT:
BARRY BABB
TEL: (770)- 706-4800

APPROVAL REVIEW STAMPS

FAYETTE COUNTY SHERIFF
VEHICLE TACTICAL TRAINING FACILITY

ADDRESS: 340 HEWELL ROAD
JONESBORO, GA 30238
LAND LOTS 172 OF THE 5TH DISTRICT
FAYETTE COUNTY, GEORGIA

TOTAL AREA: 51 ACRES
DISTURBED AREA: 41.69 ACRES

OWNER:
NAME: FAYETTE COUNTY
ADDRESS: 155 JOHNSON AVENUE
FAYETTEVILLE, GA 30214
CONTACT: BARRY BABB
PHONE: (770)- 706-4800

SHEET INDEX				
SHEET	DRAWING NAME	SHEET NAME	PLAN DATE	LAST REVISED
1	C-000	COVER SHEET	04/01/2022	10/15/2024
2	C-100	EXISTING CONDITIONS AND DEMOLITION PLAN	04/01/2022	10/15/2024
3	C-200	OVERALL SITE AND UTILITY PLAN	04/01/2022	10/15/2024
4	C-201	SITE AND UTILITY PLAN	04/01/2022	10/15/2024
5	C-202	SITE AND UTILITY PLAN	04/01/2022	10/15/2024
6	C-203	SITE AND UTILITY PLAN	04/01/2022	10/15/2024
7	C-204	ROADWAY PROFILE	04/01/2022	10/15/2024
8	C-205	ROADWAY PROFILE	04/01/2022	10/15/2024
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16	C-213	ROADWAY PROFILE	10/15/2024	
17	C-214	ROADWAY PROFILE	10/15/2024	
18	C-215	TYPICALS	04/01/2022	10/15/2024
19	C-300	GRADING AND DRAINAGE PLAN	04/01/2022	10/15/2024
20	C-301	GRADING AND DRAINAGE PLAN	04/01/2022	10/15/2024
21	C-302	GRADING AND DRAINAGE PLAN	04/01/2022	10/15/2024
22	C-400	STORM PROFILES	04/01/2022	10/15/2024
23	C-401	STORM PROFILES	04/01/2022	10/15/2024
24	C-402	STORM PROFILES	04/01/2022	10/15/2024
25	C-403	STORMWATER MANAGEMENT SHEET	04/01/2022	10/15/2024
26	C-404	STORMWATER MANAGEMENT DATA	04/01/2022	10/15/2024
27	GA-P	GA POWER EASEMENT EXHIBIT	04/01/2022	10/15/2024
28	GA-P1	GA POWER EASEMENT EXHIBIT PROFILE	04/01/2022	10/15/2024
29	C-501	CONSTRUCTION DETAILS	04/01/2022	10/15/2024
30	C-502	CONSTRUCTION DETAILS	04/01/2022	10/15/2024
31	ER-000	EROSION CONTROL COVER SHEET	04/01/2022	10/15/2024
32	ER-100	EROSION CONTROL NOTES	04/01/2022	10/15/2024
33	ER-200	EROSION CONTROL PLAN - INITIAL PHASE	04/01/2022	10/15/2024
34	ER-300	EROSION CONTROL PLAN - INTERMEDIATE PHASE	04/01/2022	10/15/2024
35	ER-400	EROSION CONTROL PLAN - FINAL PHASE	04/01/2022	10/15/2024
36	ER-500	EROSION CONTROL DETAILS	04/01/2022	10/15/2024
37	ER-501	EROSION CONTROL DETAILS	04/01/2022	10/15/2024



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

FAYETTE COUNTY SHERIFF
VEHICLE TACTICAL TRAINING FACILITY
LAND LOTS(S) 172
OF THE 5TH DISTRICT, 5TH SECTION
FAYETTE COUNTY, GEORGIA

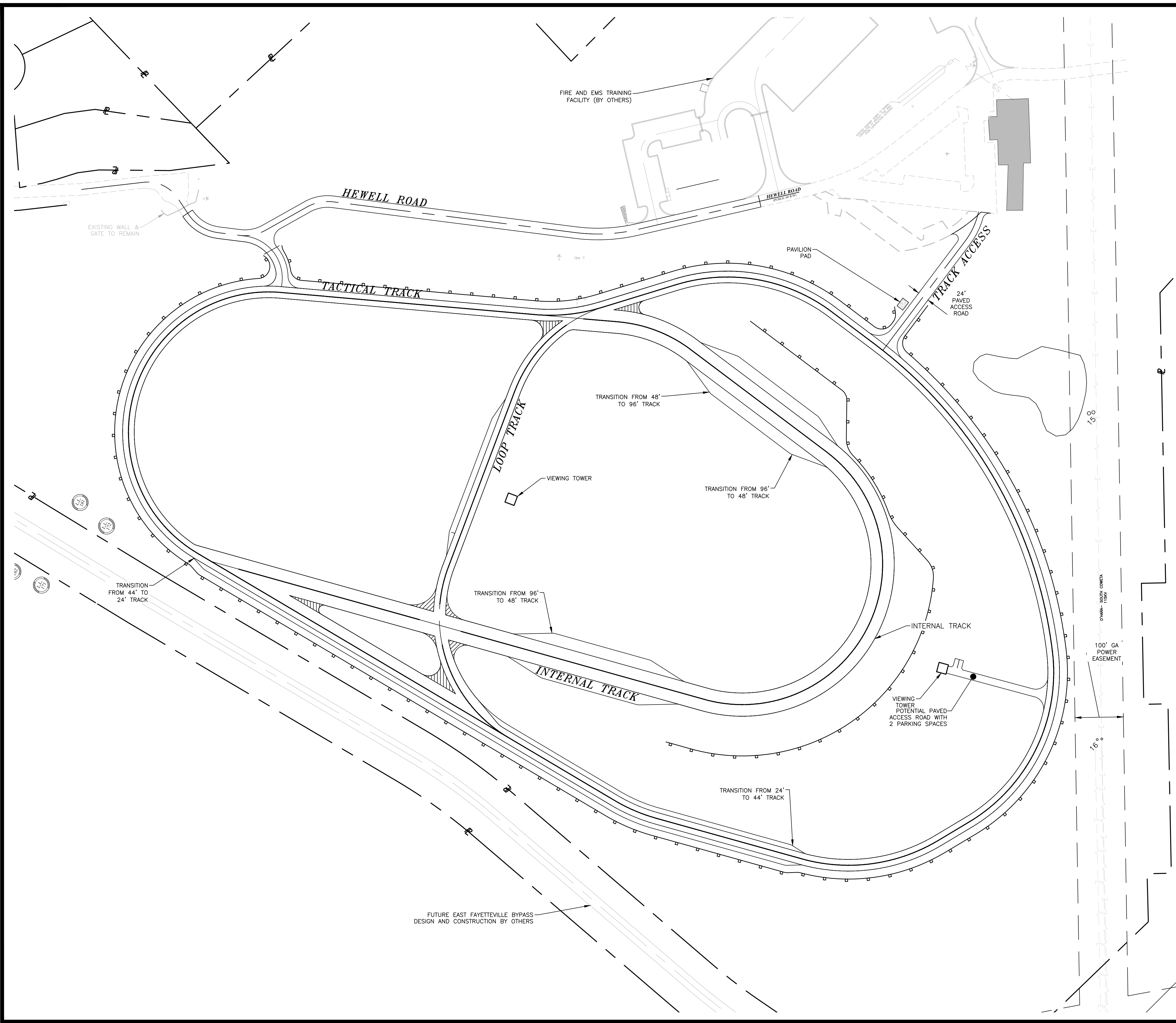
04	INTERNAL TRACK	10/15/2024
03	EROSION APPENDIX 1	29/26/2023
02	VIEWPORT REVISIONS	11/22/2023
01	ACCESS ROAD REDESIGN	08/19/2022



GSWCC CERT #78081
SHEET TITLE
COVER SHEET

DRAWN BY	CHECKED BY
ORG	SMM
SCALE	ISSUE DATE
N/A	04/01/2022

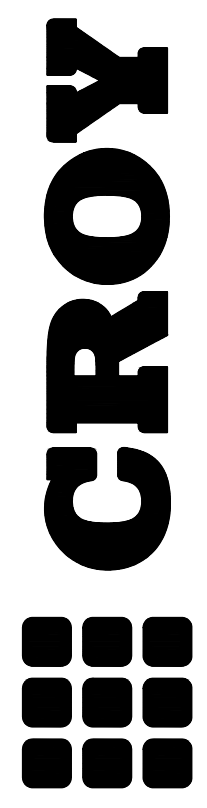
PROJECT NUMBER
1866.033
DRAWING NUMBER
C-000
SHEET 1 of 37



SITE PLAN NOTES

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.

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.



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

**FAYETTE COUNTY SHERIFF
 VEHICLE TACTICAL TRAINING FACILITY
 OF THE 5TH DISTRICT, 5TH SECTION
 FAYETTE COUNTY, GEORGIA**

NO.	REVISION REFERENCE	DATE
04	INTERNAL TRACK	10/15/2022



GSWCC CERT #78081

SHEET TITLE
OVERALL SITE PLAN

DRAWN BY ORG	CHECKED BY SMM
SCALE N/A	ISSUE DATE 04/01/2022

PROJECT NUMBER
1866.033

DRAWING NUMBER
C-200
 SHEET 3 of 37

24 HOUR CONTACT:
 BARRY BABB
 TEL: (770)- 706-4800

SCALE IN FEET

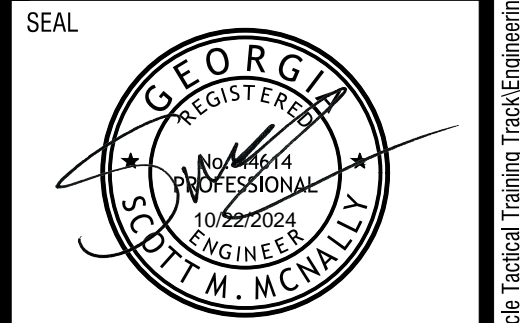
*NOTE: PRECURVED GUARDRAIL WILL BE REQUIRED WITH RADII LESS THAN 150'.

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 THE WRITTEN PERMISSION OF CROY ENGINEERING, L.L.C. ANY REVISIONS TO THESE PLANS SHALL BE INDICATED BY A REVISION TABLE AND A REVISION NUMBER.

FAYETTE COUNTY SHERIFF
 VEHICLE TACTICAL TRAINING FACILITY
 OF THE 5TH DISTRICT, 5TH SECTION
 FAYETTE COUNTY, GEORGIA

ISSUED FOR CONSTRUCTION

NO.	REVISION REFERENCE	DATE
04	INTERNAL TRACK	10/15/2024
02	VIEWPORT REVISION	11/22/2022
01	ACCESS ROAD REDESIGN	08/19/22



GSWCC CERT #78081
 SHEET TITLE
 SITE AND UTILITY PLAN

DRAWN BY ORG	CHECKED BY SMM
SCALE 1"=50'	ISSUE DATE 04/01/2022

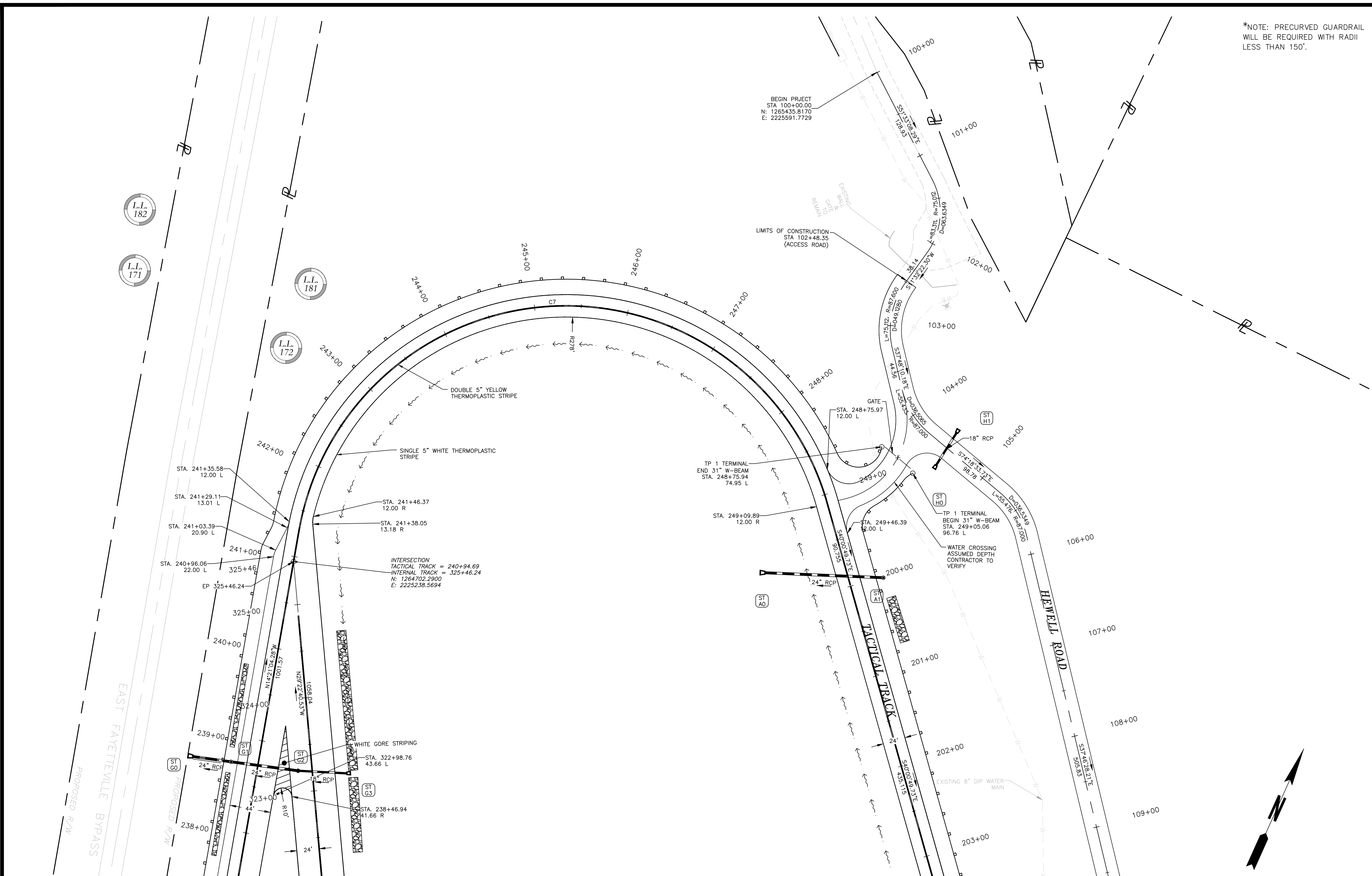
PROJECT NUMBER
1866.033
 DRAWING NUMBER
C-201
 SHEET 4 of 37

CURVE NO. = 7
 PI STA. = 254+01.93
 N = 1265968.7409
 E = 2224914.5498
 Δ = 154°20'14.5"
 D = 19°45'25.8"
 T = 1273.22
 L = 781.17
 R = 290.00

SEE SHEET C-202

24 HOUR CONTACT:
 BARRY BABB
 TEL: (770)-706-4800

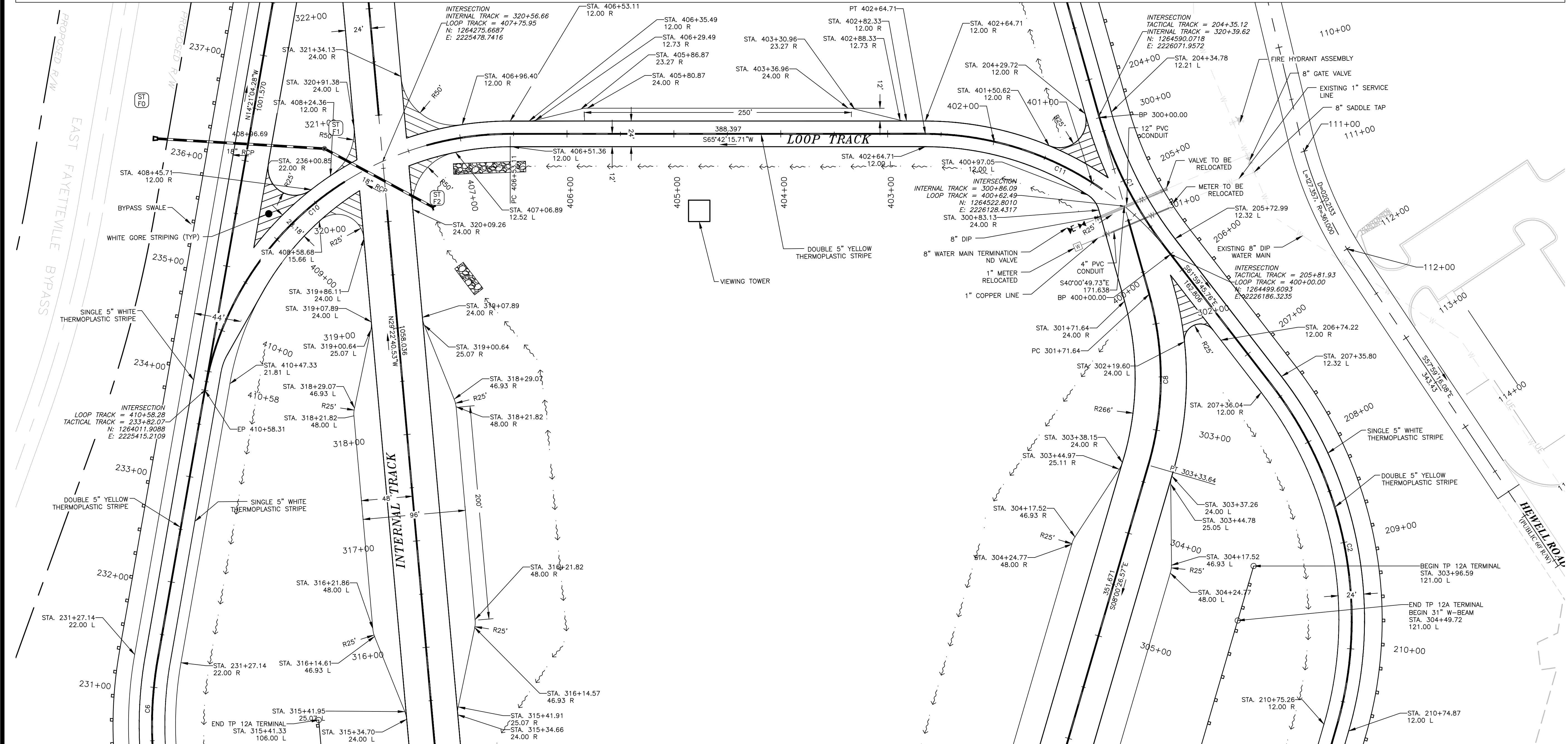
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Plot Style: Design.ctb, Plotted By: Chris Woble on 10/15/2024, 1:38 PM

SEE SHEET C-201

*NOTE: PRECURVED GUARDRAIL WILL BE REQUIRED WITH RADII LESS THAN 150'.



SEE SHEET C-203

CURVE NO.= 1 PI STA.= 205+05.03 N= 1264536.5216 E= 2226116.9131 Δ= 21°58'56.0" D= 15°54'55.8" T= 69.92 L= 138.12 R= 360.00	CURVE NO.= 2 PI STA.= 209+19.42 N= 1264341.1447 E= 2226484.3024 Δ= 53°59'19.2" D= 15°54'55.8" T= 183.38 L= 339.22 R= 360.00	CURVE NO.= 6 PI STA.= 230+79.94 N= 1263718.6770 E= 2225490.2253 Δ= 15°04'12.3" D= 15°52'17.1" T= 47.75 L= 94.95 R= 361.00	CURVE NO.= 8 PI STA.= 302+54.81 N= 1264393.5811 E= 2226236.9132 Δ= 32°00'23.2" D= 19°45'25.8" T= 83.17 L= 162.00 R= 290.00	CURVE NO.= 10 PI STA.= 408+96.69 N= 1264247.8567 E= 2225354.8354 Δ= 80°03'20.0" D= 19°45'25.8" T= 243.58 L= 405.20 R= 290.00	CURVE NO.= 11 PI STA.= 401+42.38 N= 1264566.4623 E= 2226060.6121 Δ= 52°17'58.5" D= 19°45'25.8" T= 142.38 L= 264.71 R= 290.00
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24 HOUR CONTACT:
BARRY BABB
TEL: (770)- 706-4800

SCALE IN FEET

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

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Plot Style: Design.ctb. Plotted By: Chris Wible on 10/15/2024, 1:38 PM

FAYETTE COUNTY SHERIFF
VEHICLE TACTICAL TRAINING FACILITY
LAND LOT(S) 172
OF THE 5TH DISTRICT, 5TH SECTION
FAYETTE COUNTY, GEORGIA

ISSUED FOR CONSTRUCTION

04	INTERNAL TRACK	10/15/2024
02	VIEWPORT REVISION	11/22/2022
NO.	REVISION REFERENCE	DATE

SEAL

GSWCC CERT #78081

SHEET TITLE
SITE AND UTILITY PLAN

DRAWN BY ORG	CHECKED BY SMM
SCALE 1"=50'	ISSUE DATE 04/01/2022

PROJECT NUMBER
1866.033

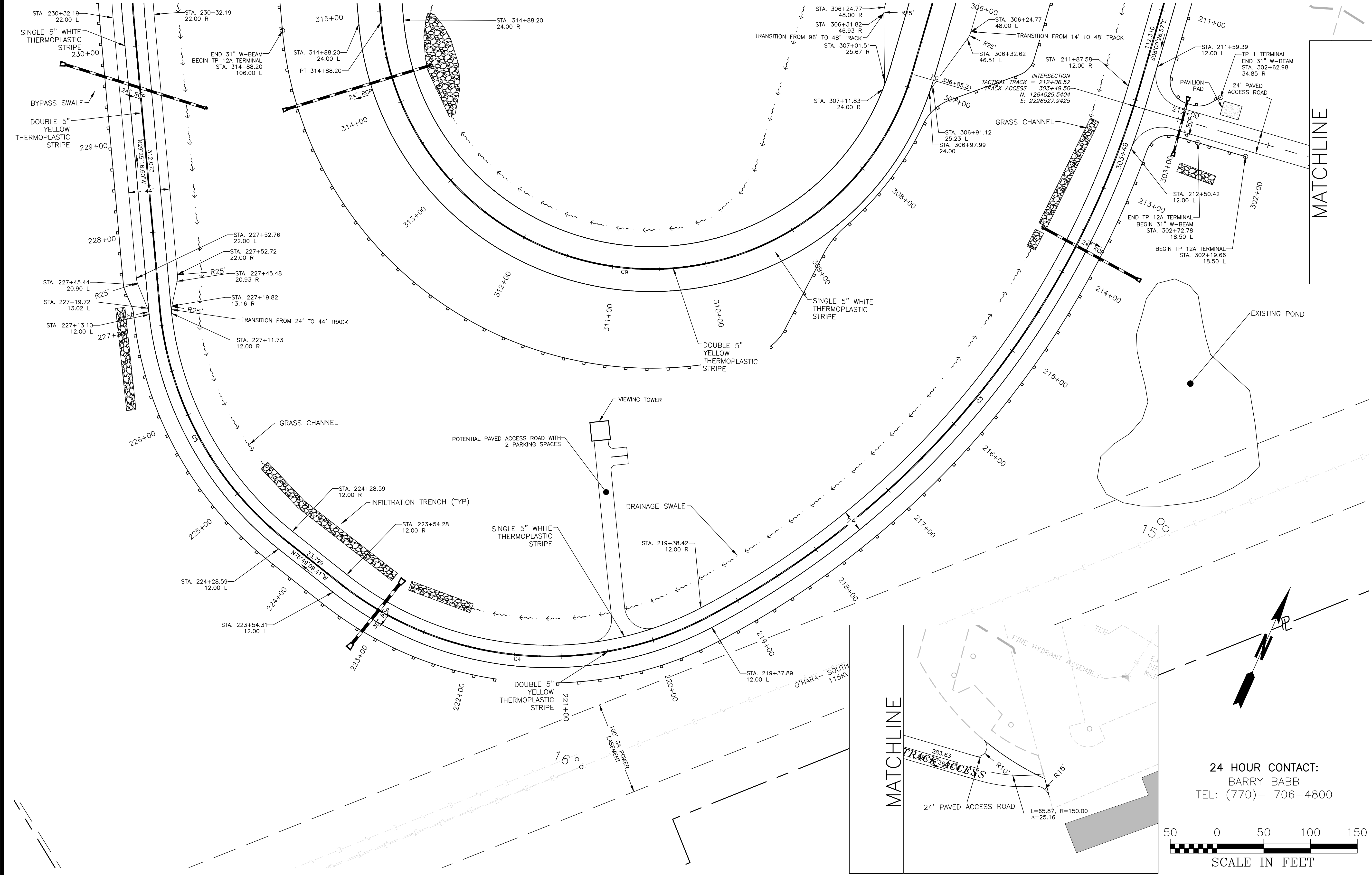
DRAWING NUMBER
C-202

SHEET 5 of 37

CURVE NO.= 3 PI STA.= 215+84.26 N= 1263655.5145 E= 2226580.7815 Δ= 45°58'41.7" D= 6°07'39.7" T= 396.69 L= 750.33 R= 935.03	CURVE NO.= 4 PI STA.= 221+73.13 N= 1263157.3661 E= 2226191.9632 Δ= 66°12'35.5" D= 15°52'54.9" T= 235.22 L= 416.89 R= 360.76	CURVE NO.= 5 PI STA.= 225+82.88 N= 1263270.8682 E= 2225742.7717 Δ= 46°23'52.8" D= 15°54'55.8" T= 154.29 L= 291.53 R= 360.00	CURVE NO.= 9 PI STA.= 322+22.26 N= 1262441.0143 E= 2226511.5851 Δ= 158°37'46.0" D= 19°45'25.8" T= 1536.95 L= 802.90 R= 290.00
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SEE SHEET C-202

*NOTE: PRECURVED GUARDRAIL WILL BE REQUIRED WITH RADII LESS THAN 150'.



CROY

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

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FAYETTE COUNTY SHERIFF
VEHICLE TACTICAL TRAINING FACILITY
LAND LOT(S) 172
OF THE 5TH DISTRICT, 5TH SECTION
FAYETTE COUNTY, GEORGIA

ISSUED FOR CONSTRUCTION

04	INTERNAL TRACK	10/15/2024
02	VIEWPORT REVISION	11/22/2022
NO.	REVISION REFERENCE	DATE

SEAL

GSWCC CERT #78081

SHEET TITLE
SITE AND UTILITY PLAN

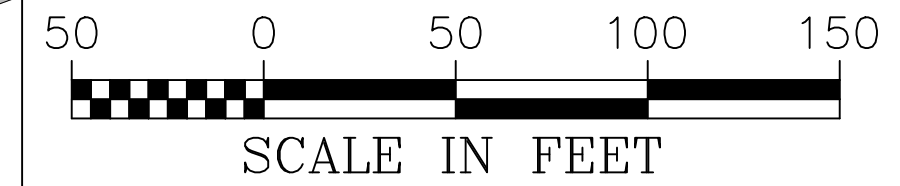
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SCALE 1"=50'	ISSUE DATE 04/01/2022

PROJECT NUMBER
1866.033

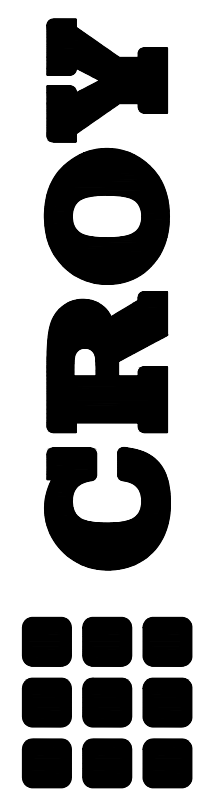
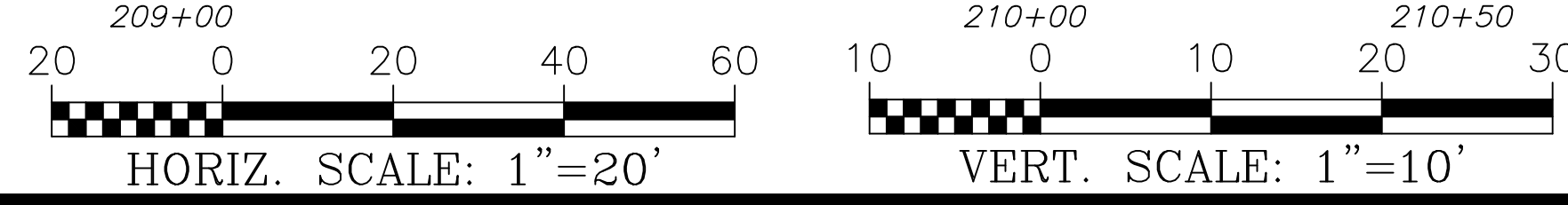
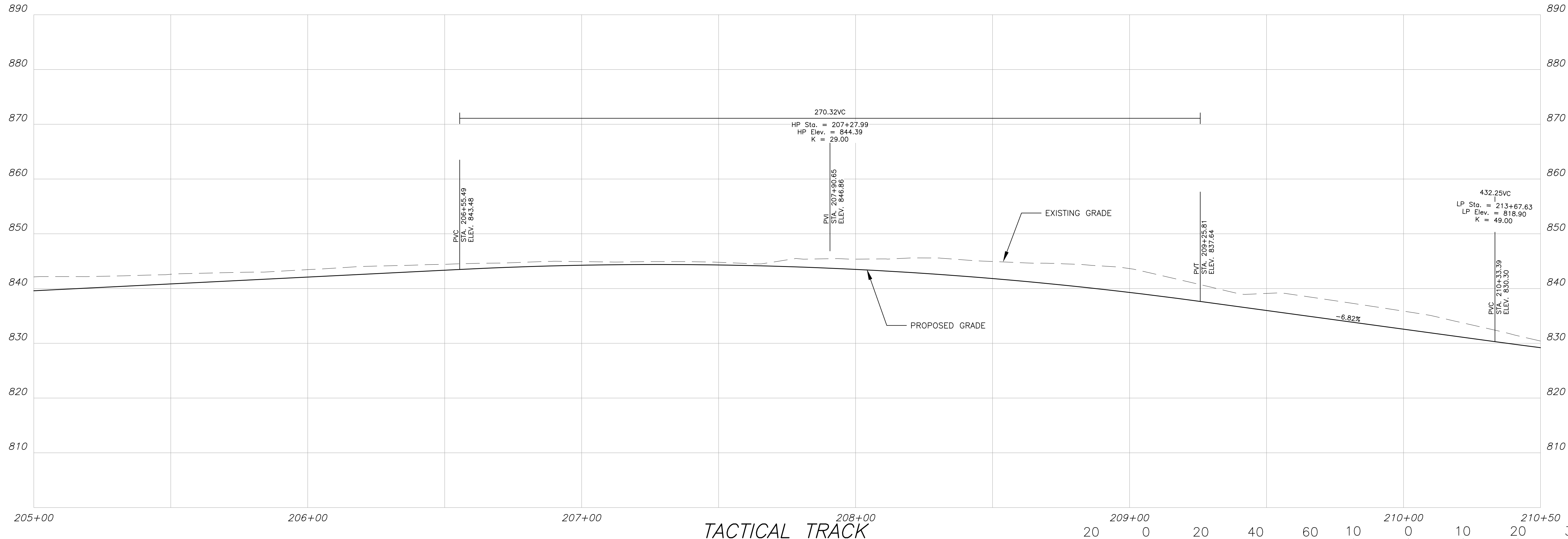
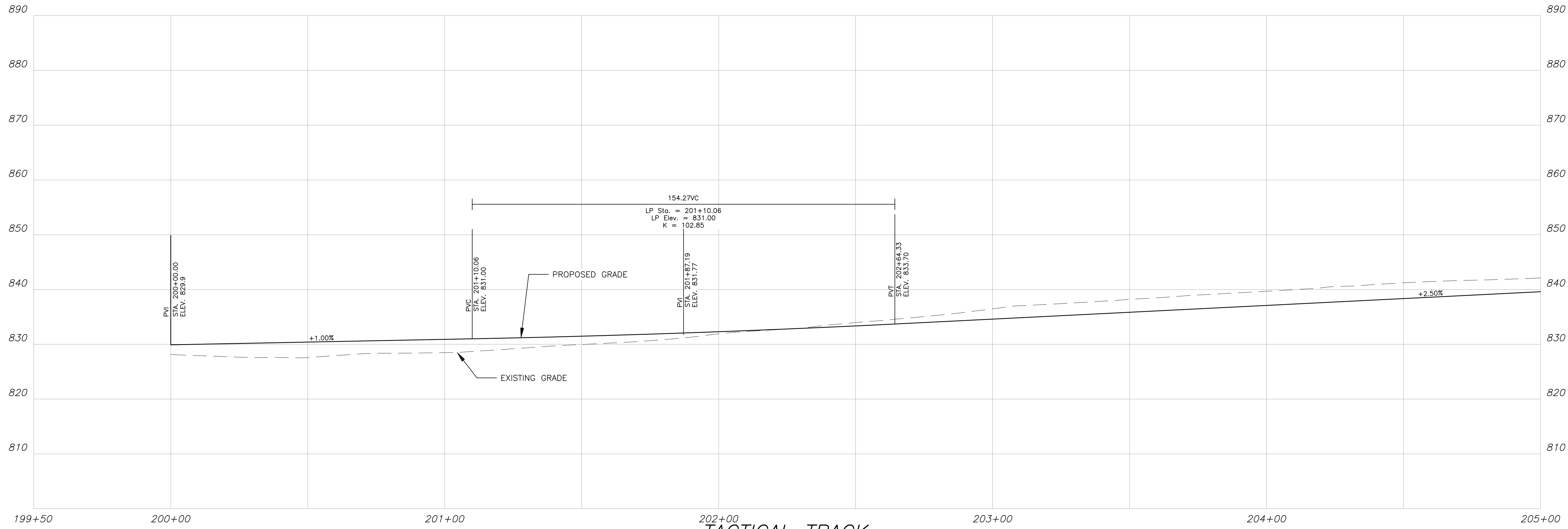
DRAWING NUMBER
C-203

SHEET 6 of 37

24 HOUR CONTACT:
BARRY BABB
TEL: (770)- 706-4800



Drawing Location: P:\Marietta\1866 Fayette County\1866.033 Fayette County Sheriff Vehicle Tactical Training Track\TrackEngineering\Design\1866.033_Plan.dwg Plot Scale: 1"=50' Plot Style: Design.ctb. Plotted By: Chris Webb on 10/15/2024, 1:38 PM



200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
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FAYETTE COUNTY SHERIFF
 VEHICLE TACTICAL TRAINING FACILITY
 LAND LOT(S) 172
 OF THE 5TH DISTRICT, 5TH SECTION
 FAYETTE COUNTY, GEORGIA

ISSUED FOR CONSTRUCTION

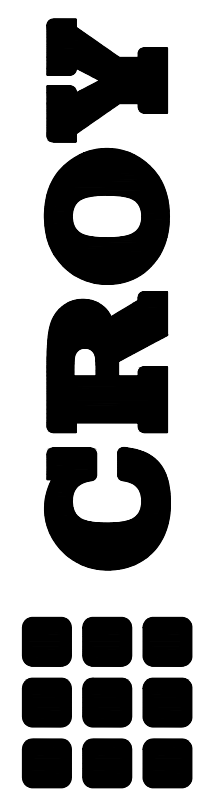
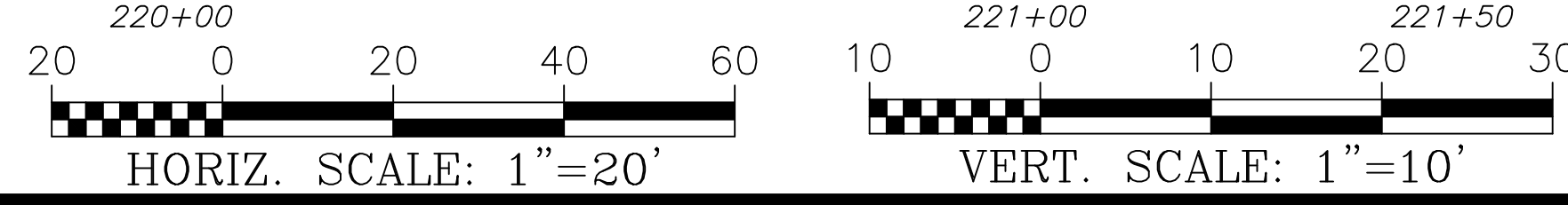
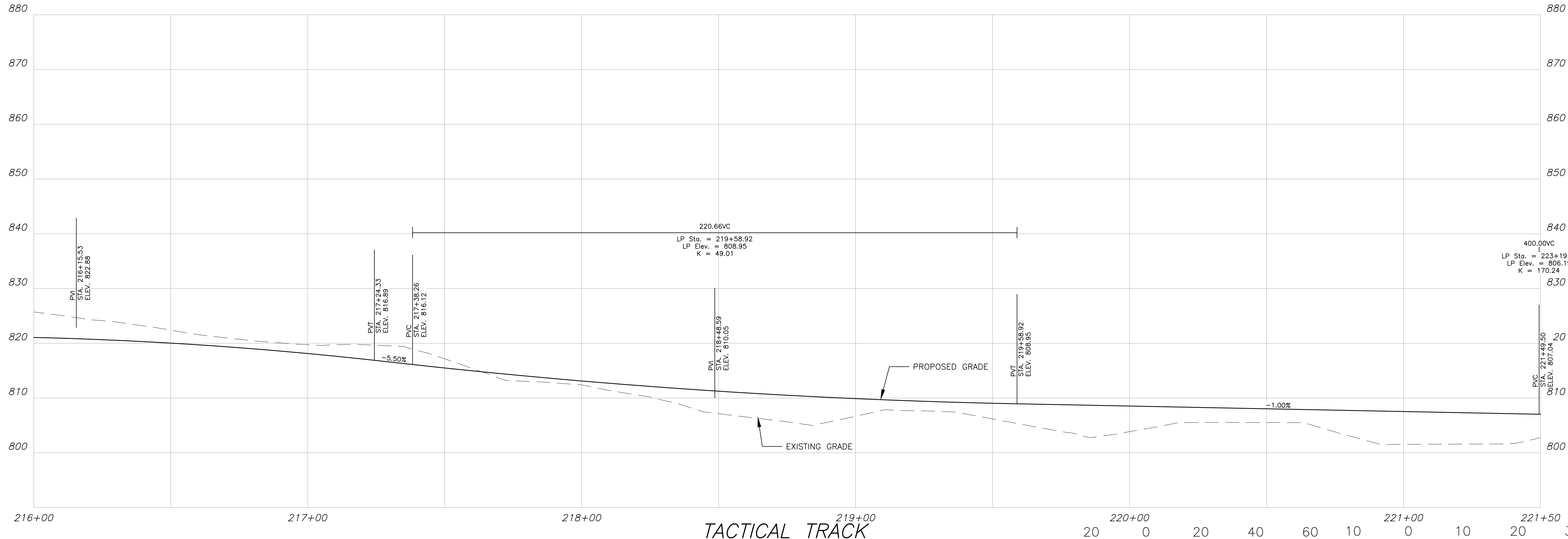
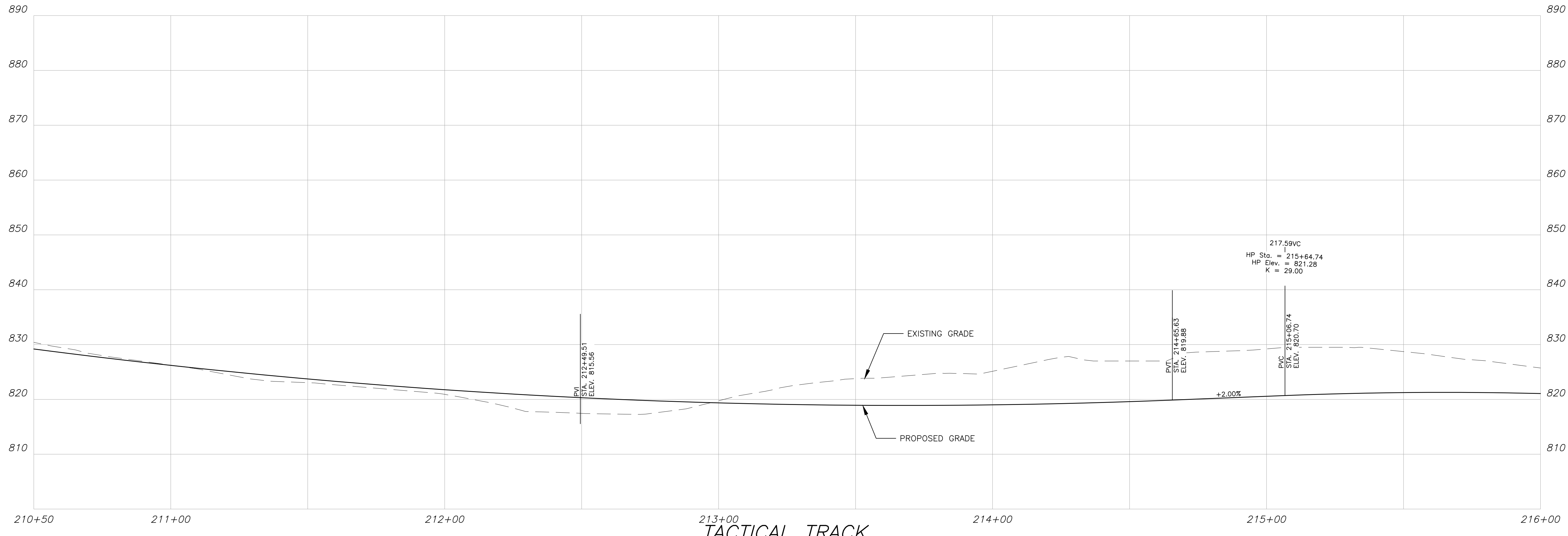
NO.	REVISION REFERENCE	DATE
04	INTERNAL TRACK	10/15/2022



GSWCC CERT #78081
 SHEET TITLE
 ROADWAY PROFILE

DRAWN BY TBA	CHECKED BY SMM
SCALE N/A	ISSUE DATE 04/01/2022

PROJECT NUMBER
1866.033
 DRAWING NUMBER
C-204
 SHEET 7 of 37



200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
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FAYETTE COUNTY SHERIFF
 VEHICLE TACTICAL TRAINING FACILITY
 LAND LOT(S) 172
 OF THE 5TH DISTRICT, 5TH SECTION
 FAYETTE COUNTY, GEORGIA

ISSUED FOR CONSTRUCTION

NO.	REVISION REFERENCE	DATE
04	INTERNAL TRACK	10/15/2024

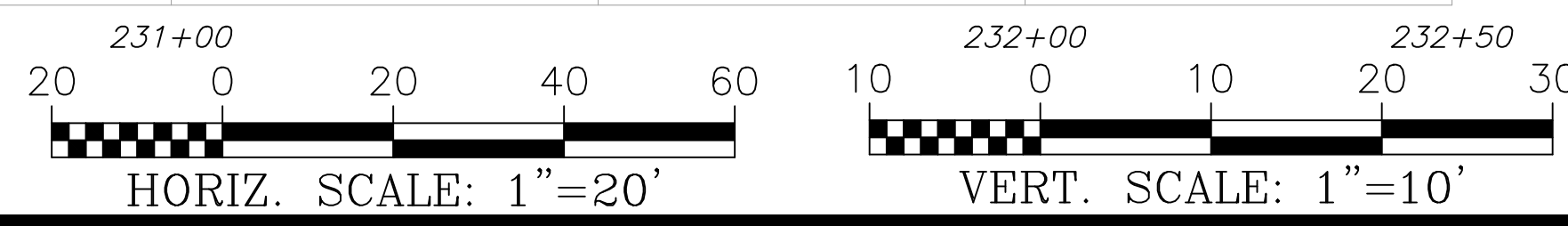
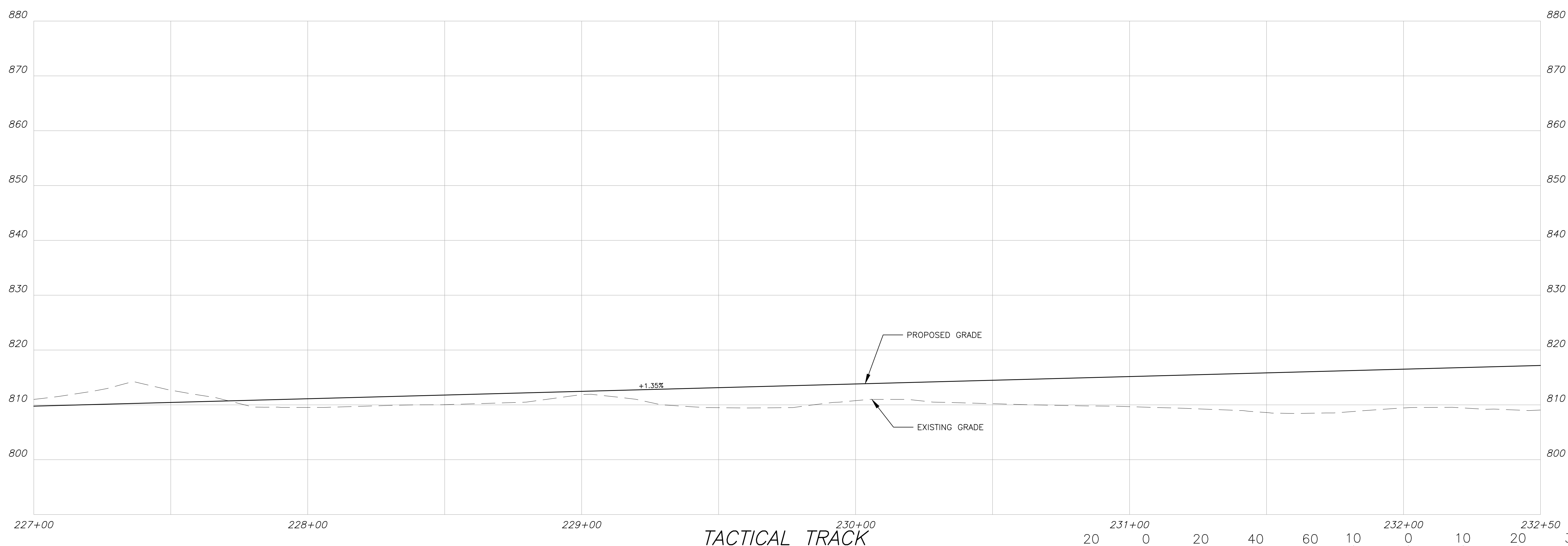
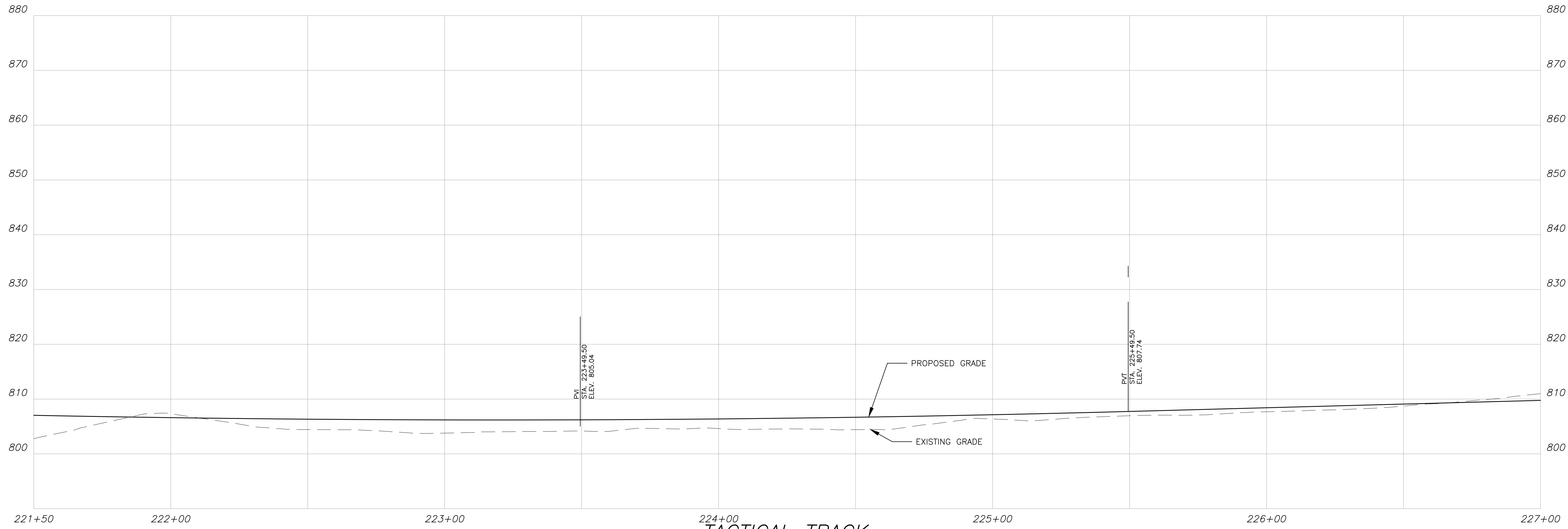


GSWCC CERT #78081
 SHEET TITLE
 ROADWAY PROFILE

DRAWN BY TBA	CHECKED BY SMM
SCALE N/A	ISSUE DATE 04/01/2022

PROJECT NUMBER
1866.033
 DRAWING NUMBER
C-205
 SHEET 8 of 37

Drawing Location: P:\Marietta\1866 Fayette County\1866.033 Fayette County Sheriff Vehicle Tactical Training Track\Engineering\Design\1866.033_Design.dwg Plot Scale: 1"=40' Drawing Rotation: #/## Plot Style: Design.ctb. Plotted By: Chris Wolfe on 10/15/2024, 1:38 PM



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FAYETTE COUNTY SHERIFF
 VEHICLE TACTICAL TRAINING FACILITY
 LAND LOT(S) 172
 OF THE 5TH DISTRICT, 5TH SECTION
 FAYETTE COUNTY, GEORGIA

NO.	REVISION REFERENCE	DATE
04	INTERNAL TRACK	10/15/2024



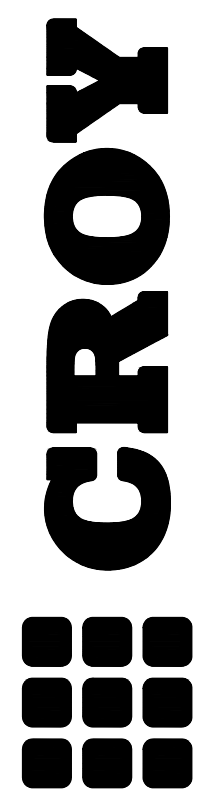
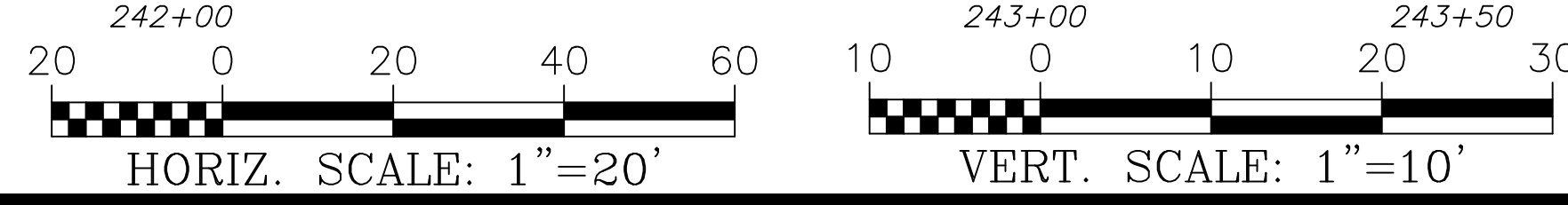
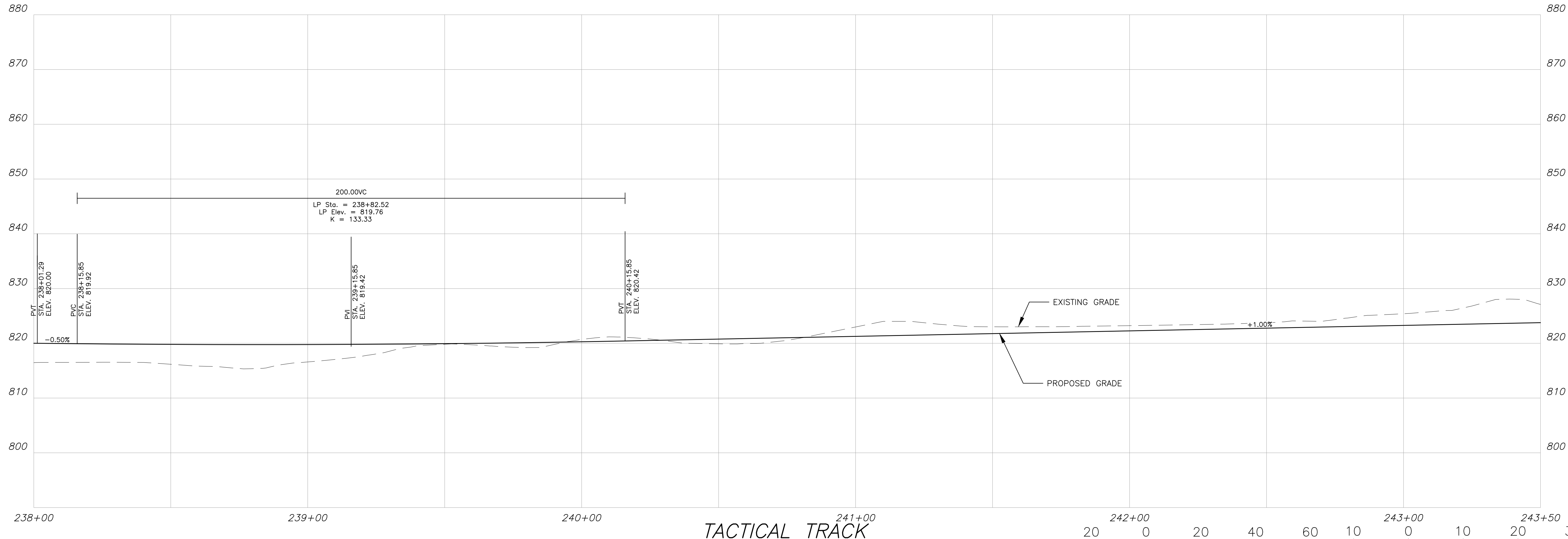
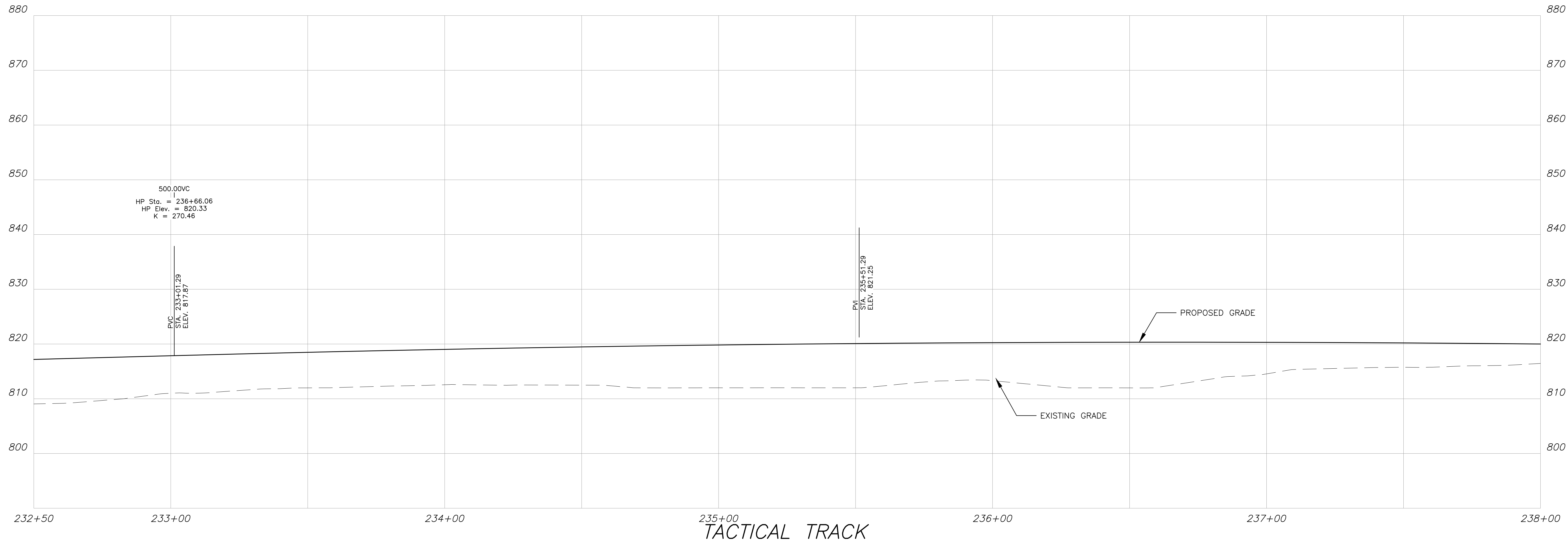
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 ROADWAY PROFILE

DRAWN BY: TBA
 CHECKED BY: SMM
 SCALE: N/A
 ISSUE DATE: 04/01/2022

PROJECT NUMBER: 1866.033
 DRAWING NUMBER: C-206
 SHEET 9 of 37

Drawing Location: P:\Marietta\1866 Fayette County\1866.033 Fayette County Sheriff Vehicle Tactical Training Track\Engineering\Design\1866.033_Design.dwg
 Plot Scale: 1"=40' Drawing Rotation: # # # Plot Style: Design.ctb. Plotted By: Chris Wolfe on 10/15/2024, 1:38 PM

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FAYETTE COUNTY SHERIFF
 VEHICLE TACTICAL TRAINING FACILITY
 LAND LOT(S) 172
 OF THE 5TH DISTRICT, 5TH SECTION
 FAYETTE COUNTY, GEORGIA

ISSUED FOR CONSTRUCTION

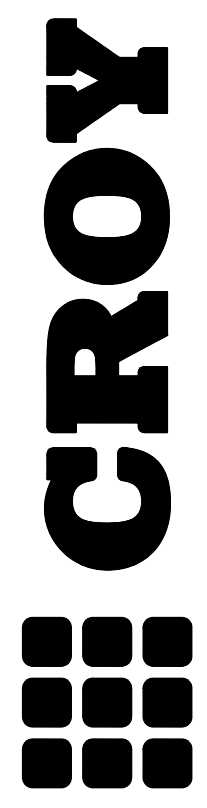
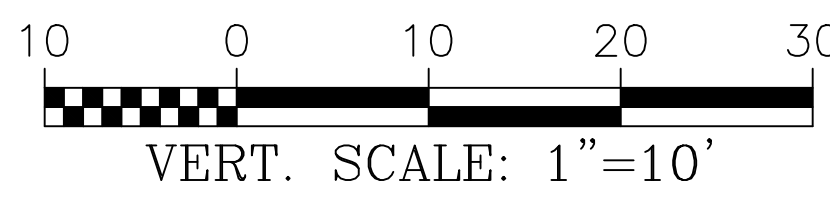
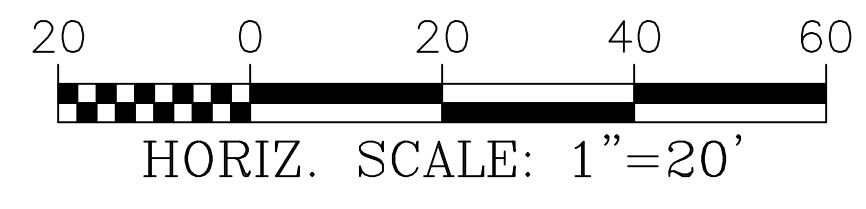
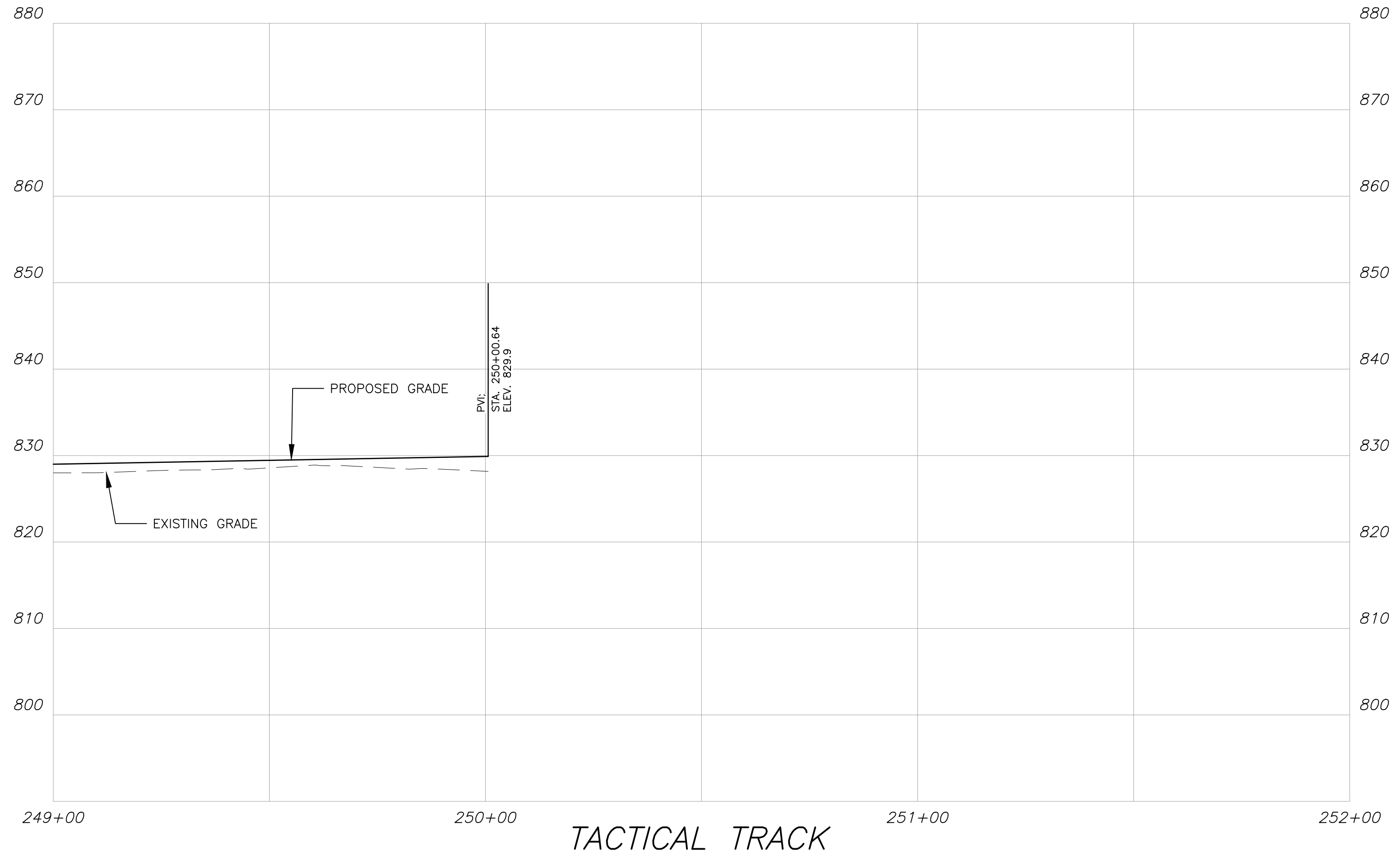
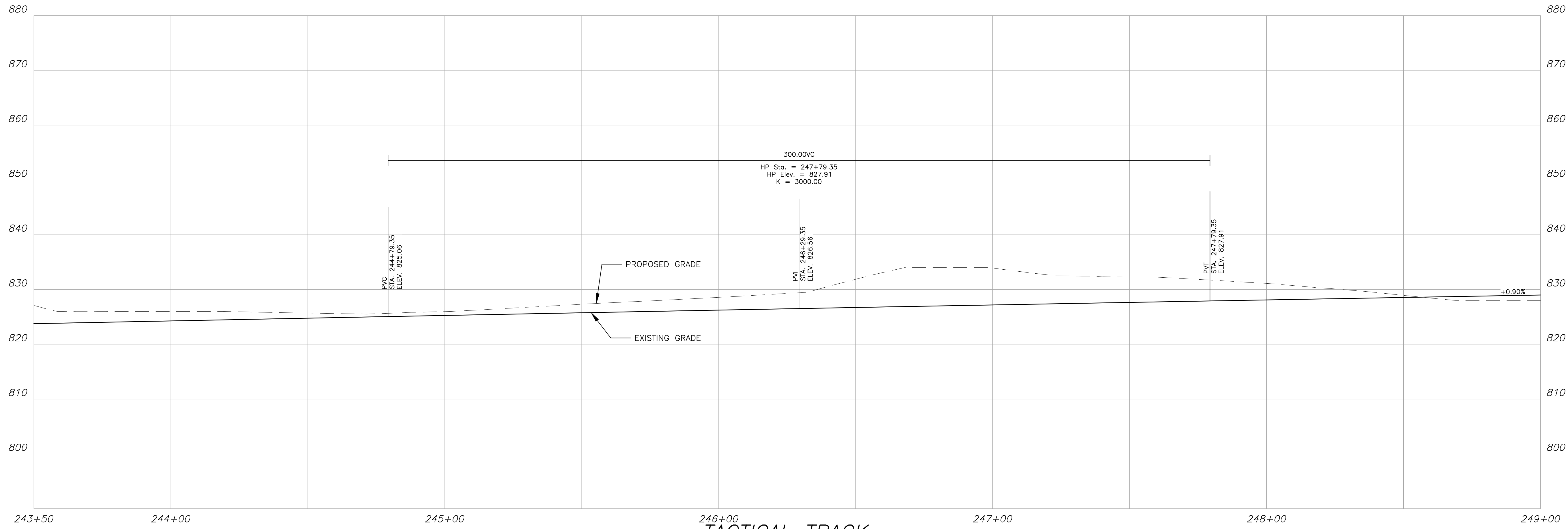
NO.	REVISION REFERENCE	DATE
04	INTERNAL TRACK	10/15/2022



GSWCC CERT #78081
 SHEET TITLE
 ROADWAY PROFILE

DRAWN BY TBA	CHECKED BY SMM
SCALE N/A	ISSUE DATE 04/01/2022

PROJECT NUMBER
 1866.033
 DRAWING NUMBER
C-207
 SHEET 10 of 37



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

ISSUED FOR CONSTRUCTION

NO.	REVISION REFERENCE	DATE
04	INTERNAL TRACK	10/15/2024



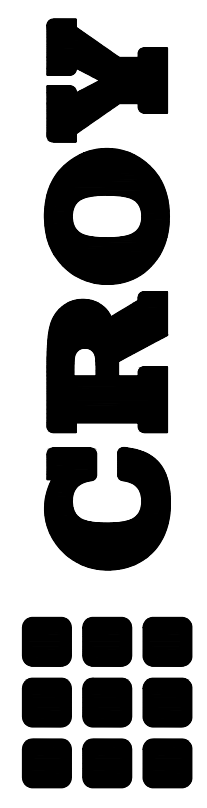
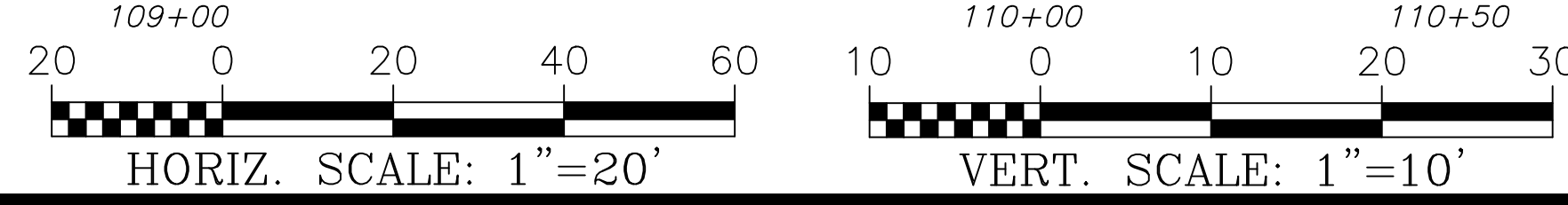
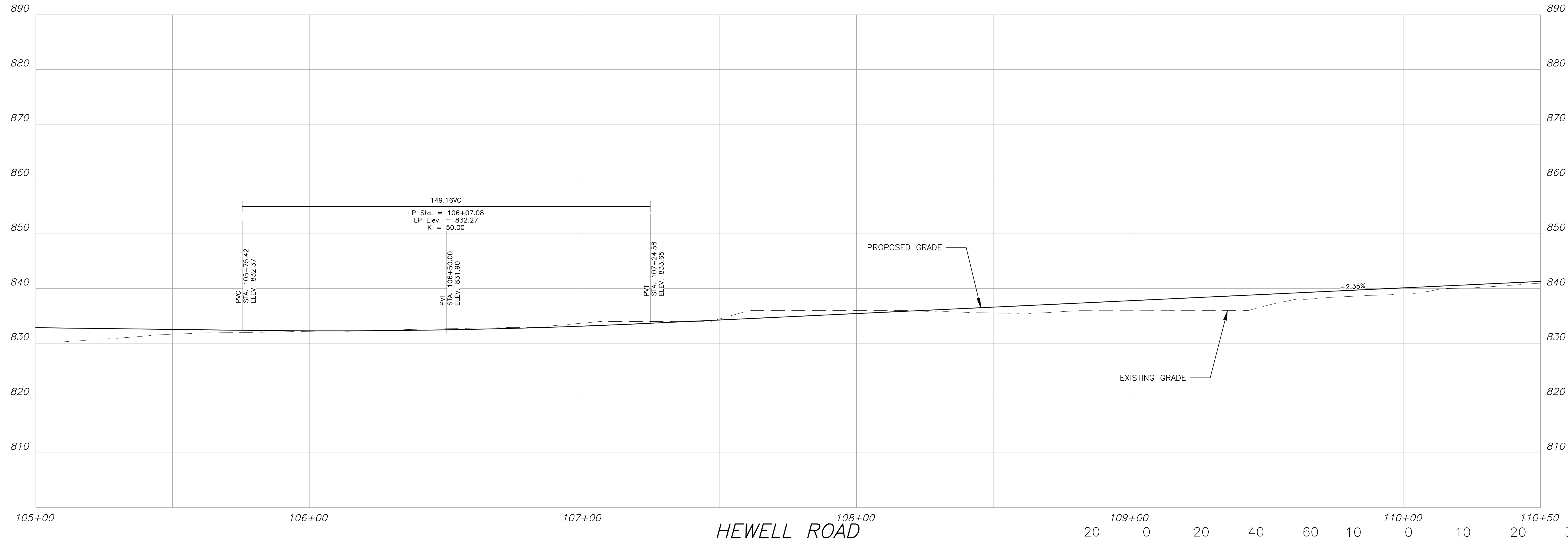
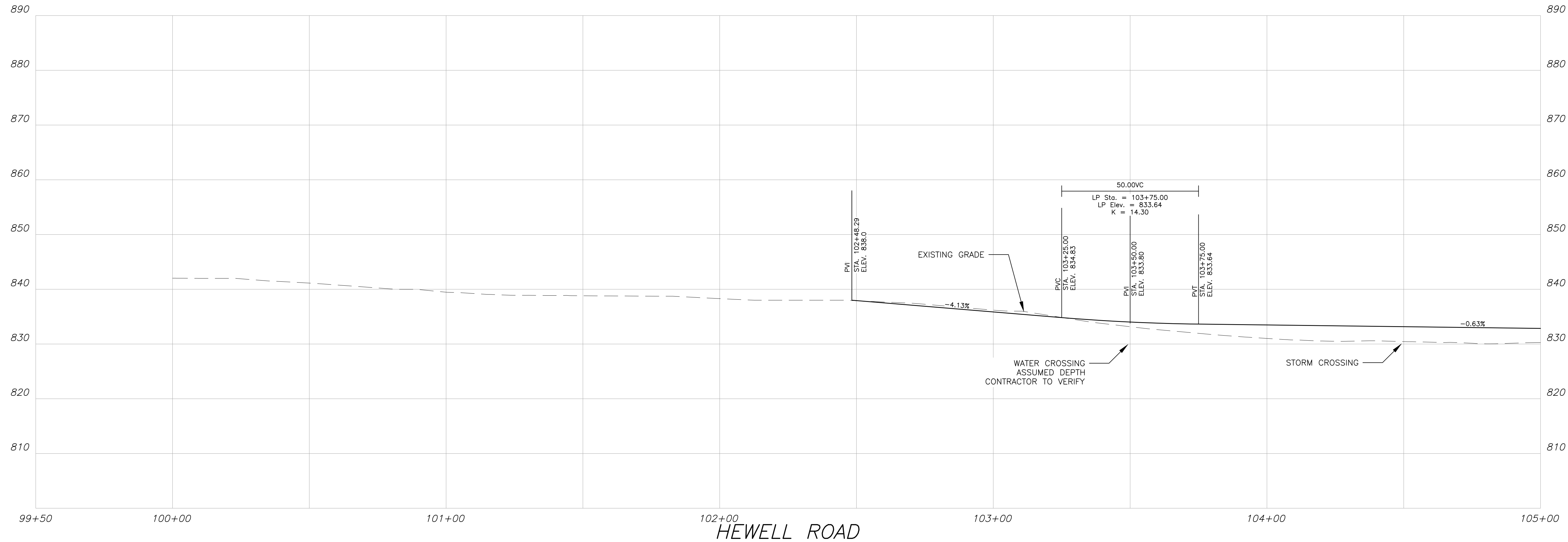
GSWCC CERT #78081

SHEET TITLE
 ROADWAY PROFILE

DRAWN BY TBA	CHECKED BY SMM
SCALE N/A	ISSUE DATE 04/01/2022

PROJECT NUMBER
 1866.033
 DRAWING NUMBER

C-208
 SHEET 11 of 37



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FAYETTE COUNTY SHERIFF
VEHICLE TACTICAL TRAINING FACILITY
LAND LOT(S) 172
OF THE 5TH DISTRICT, 5TH SECTION
FAYETTE COUNTY, GEORGIA

ISSUED FOR CONSTRUCTION

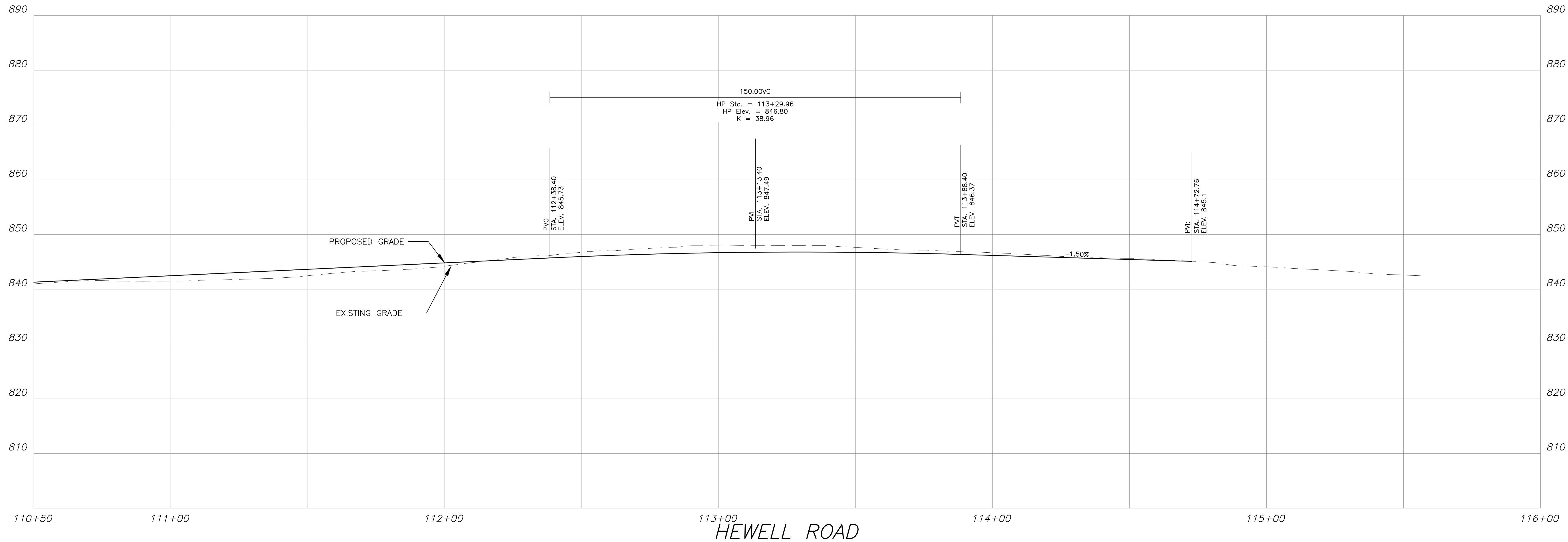
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04	INTERNAL TRACK	10/15/2024



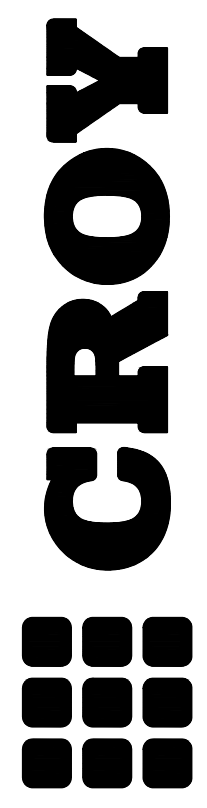
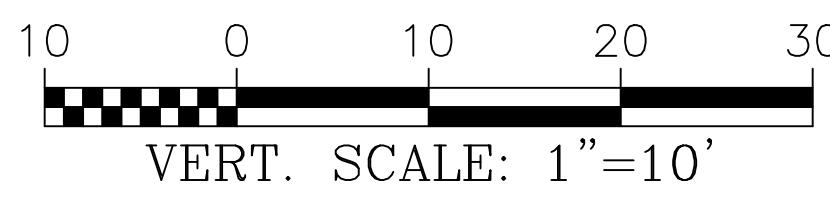
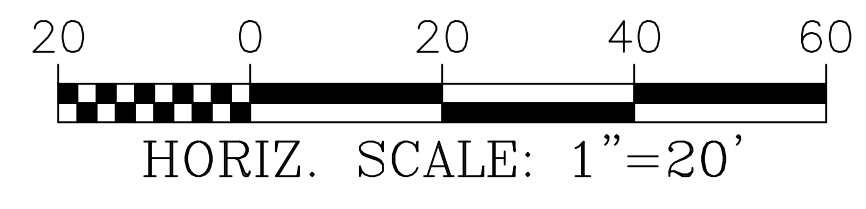
GSWCC CERT #78081
SHEET TITLE
ROADWAY PROFILE

DRAWN BY TBA	CHECKED BY SMM
SCALE N/A	ISSUE DATE 04/01/2022

PROJECT NUMBER
1866.033
DRAWING NUMBER
C-209
SHEET 12 of 37



HEWELL ROAD



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FAYETTE COUNTY SHERIFF
 VEHICLE TACTICAL TRAINING FACILITY
 LAND LOT(S) 172
 OF THE 5TH DISTRICT, 5TH SECTION
 FAYETTE COUNTY, GEORGIA

ISSUED FOR CONSTRUCTION

NO.	REVISION REFERENCE	DATE
04	INTERNAL TRACK	10/15/2024



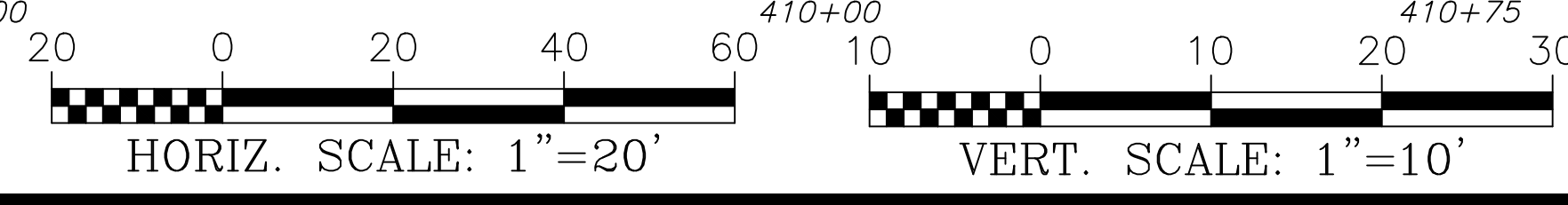
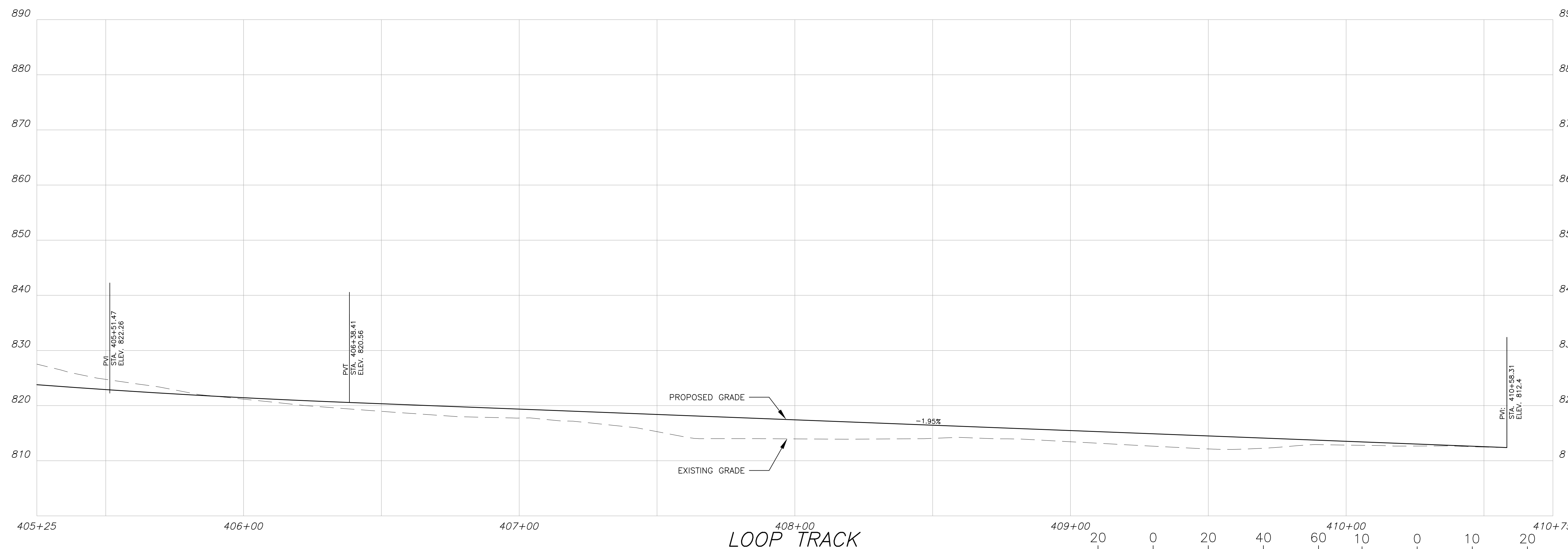
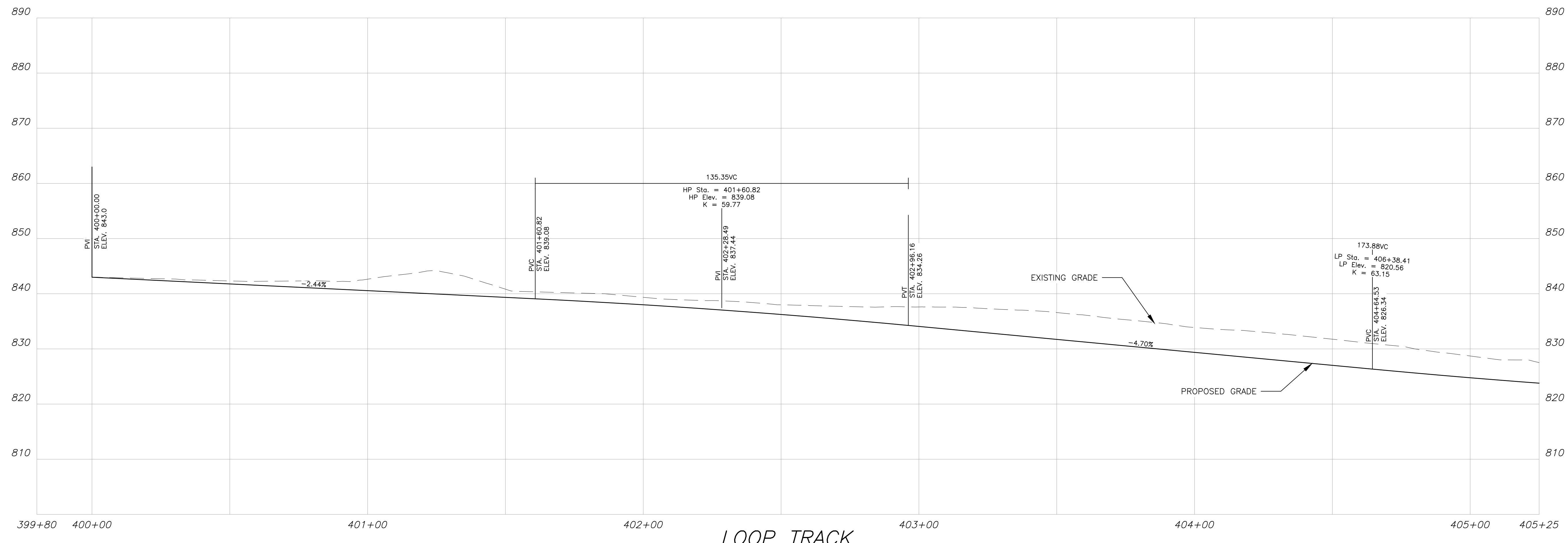
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SHEET TITLE
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PROJECT NUMBER
 1866.033

DRAWING NUMBER
C-210
 SHEET 13 of 37

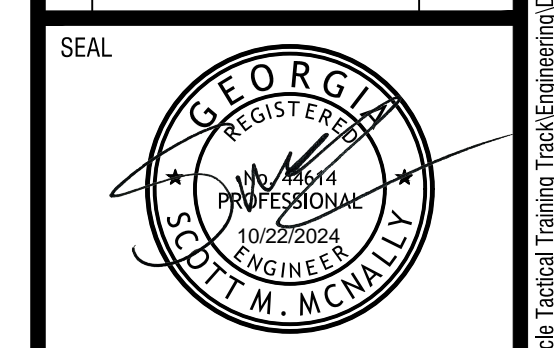


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FAYETTE COUNTY SHERIFF
 VEHICLE TACTICAL TRAINING FACILITY
 LAND LOT(S) 172
 OF THE 5TH DISTRICT, 5TH SECTION
 FAYETTE COUNTY, GEORGIA

ISSUED FOR CONSTRUCTION

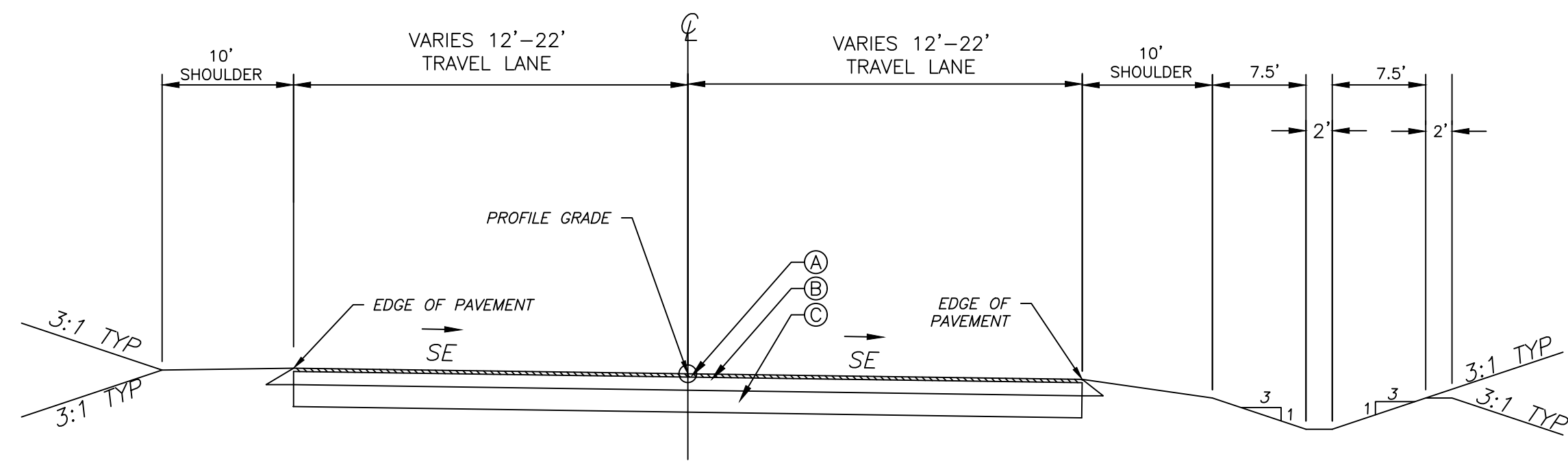
NO.	REVISION REFERENCE	DATE



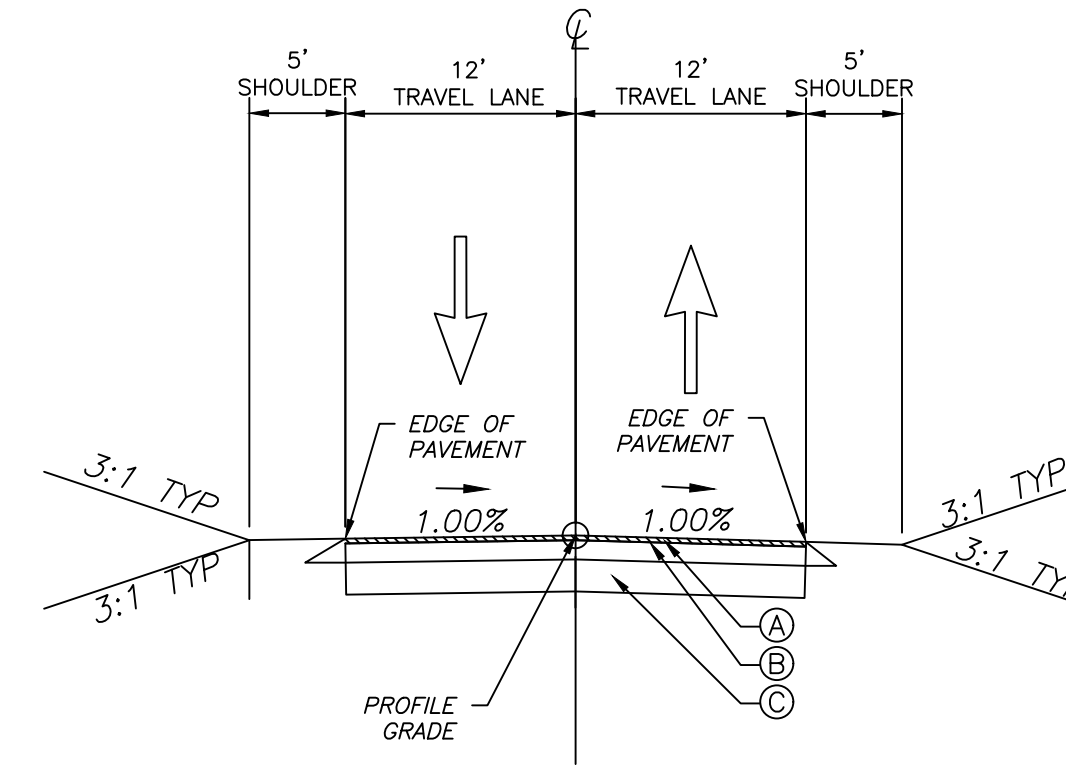
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DRAWN BY: ORG
 CHECKED BY: SMM
 SCALE: 1"=20'
 ISSUE DATE: 10/15/2024

PROJECT NUMBER: 1866.033
 DRAWING NUMBER: C-211
 SHEET 14 of 37

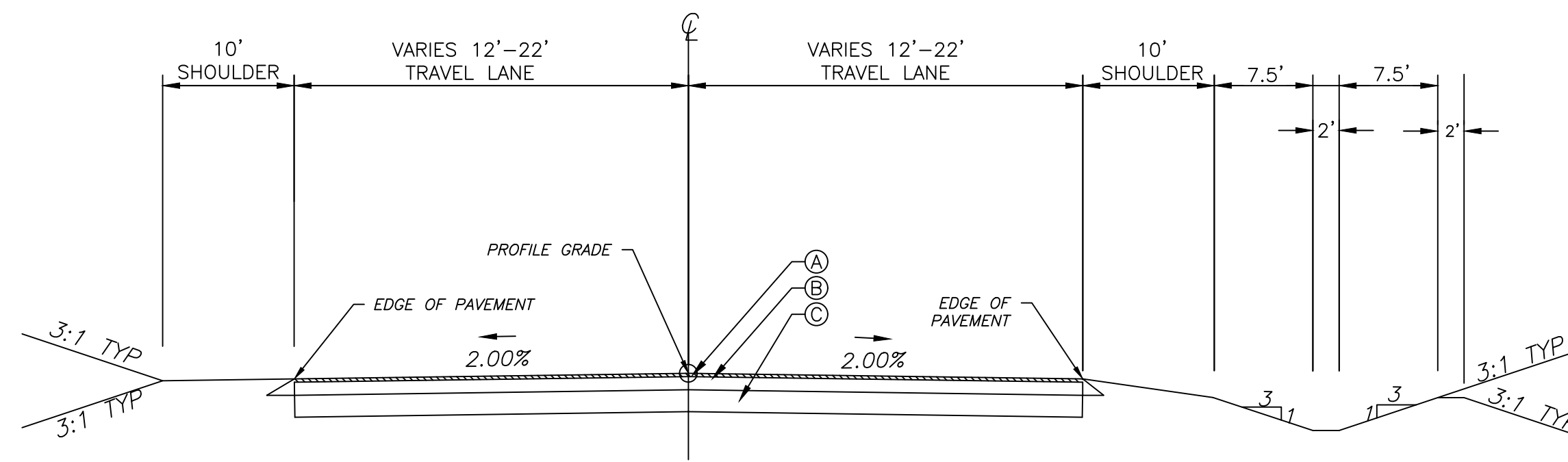


TYPICAL SECTION #1
TACTICAL TRAINING TRACK
STA. 200+00.00 TO STA. 250+00.76



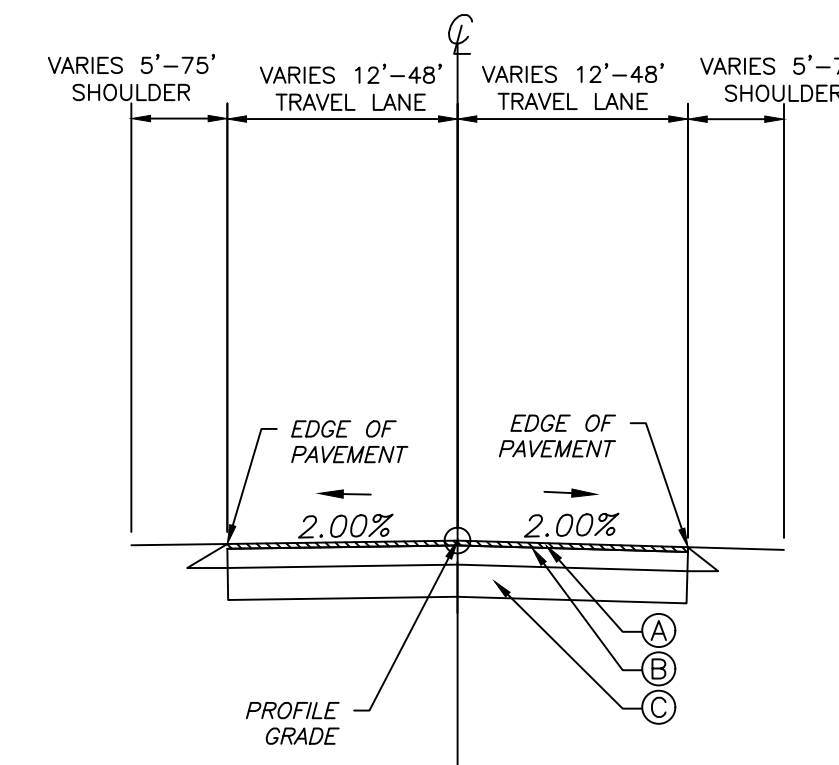
TYPICAL SECTION #4
HEWELL ROAD
STA. 100+00.00 TO STA. 115+00.00

NOTE: CONTRACTORS REFER TO GDOT STANDARD SPECIFICATIONS CONSTRUCTION OF TRANSPORTATION SYSTEMS, LATEST EDITION.

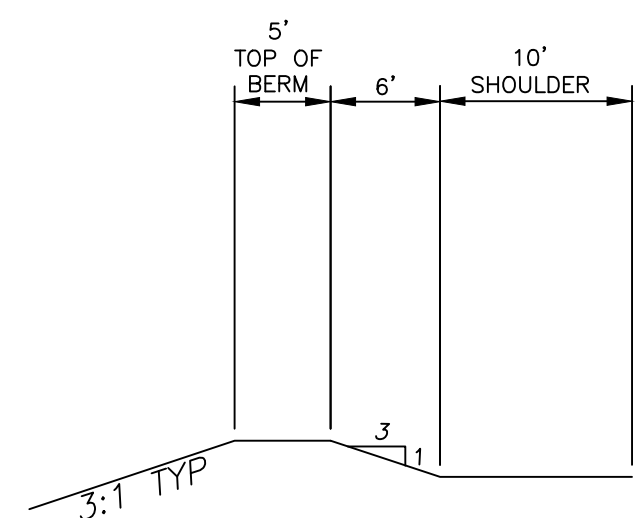


TYPICAL SECTION #2
TACTICAL TRAINING TRACK
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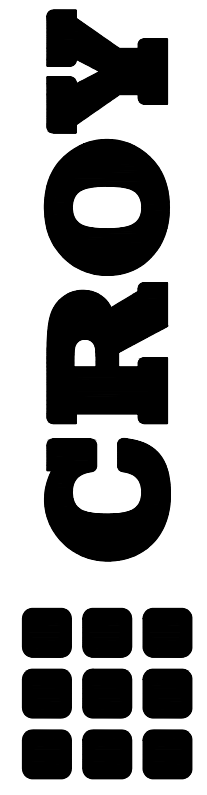
- (A) 1.5" RECYCLED ASPHALTIC CONCRETE 12.5mm SUPERPAVE, INCL BITUM MATL & H LIME (165 LB/SY)
- (B) 3" RECYCLED ASPHALTIC CONCRETE 19 mm SUPERPAVE, INCL BITUM MATL & H LIME (220 LB/SY)
- (C) 8" GRADED AGGREGATE BASE



TYPICAL SECTION #5
INTERIOR AND LOOP TRACK
STA. 300+00.00 TO STA. 325+45.00
STA. 400+00.00 TO STA. 410+58.00



TYPICAL SECTION #3
BERM
STA. 227+49.14 TO STA. 243+13.54

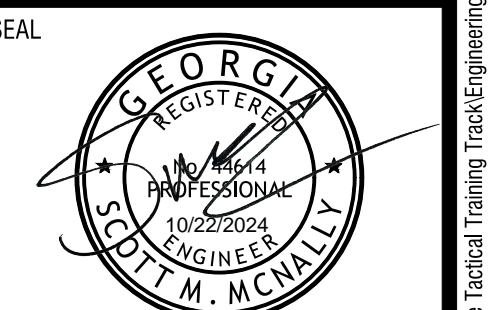


200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
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FAYETTE COUNTY SHERIFF
VEHICLE TACTICAL TRAINING FACILITY
LAND LOT(S) 172
OF THE 5TH DISTRICT, 5TH SECTION
FAYETTE COUNTY, GEORGIA

04	INTERIAL TRACK	10/15/2022
NO.	REVISION REFERENCE	DATE

SEAL



GSWCC CERT #78081

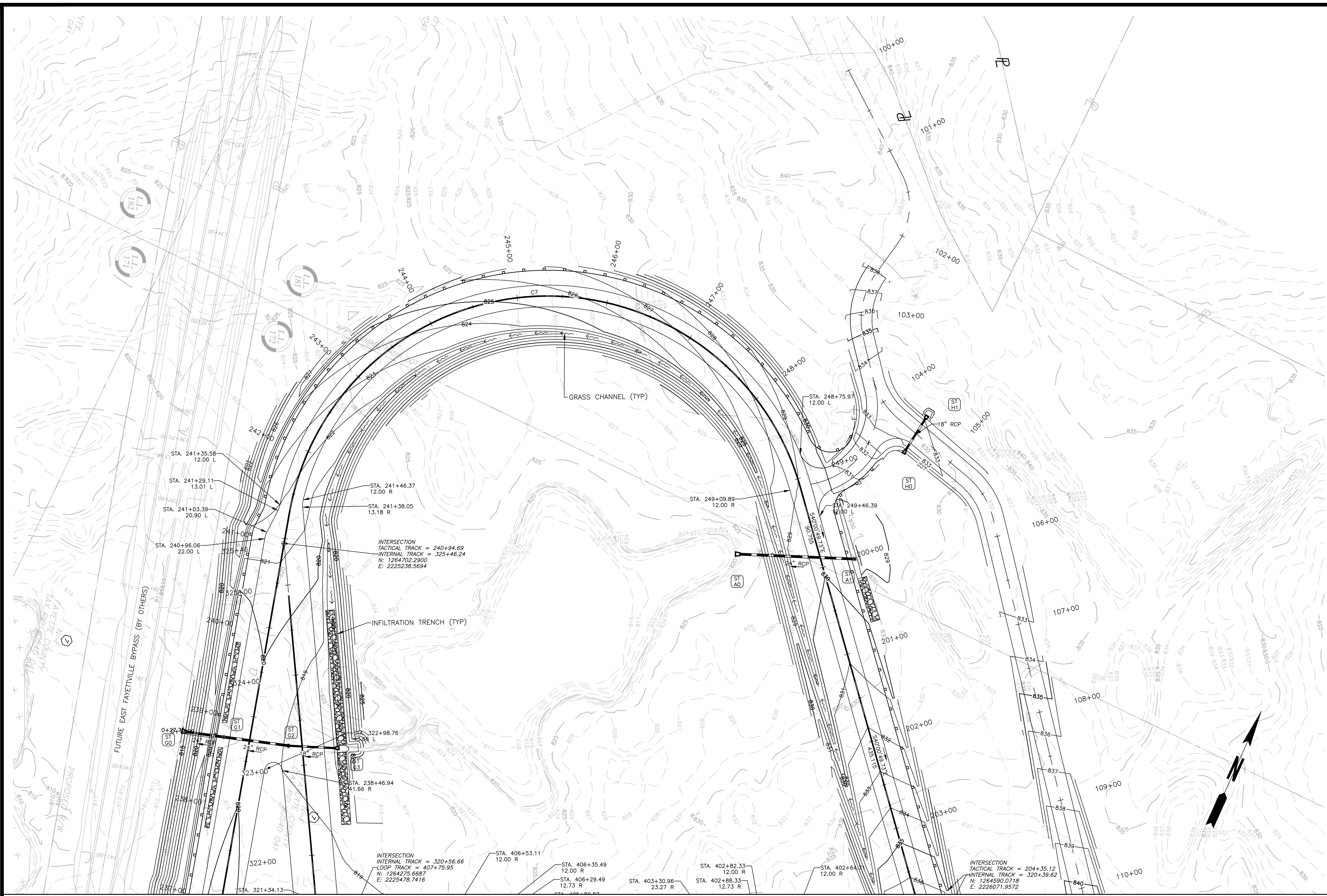
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DRAWN BY ORG	CHECKED BY SMM
SCALE NTS	ISSUE DATE 04/01/2022

PROJECT NUMBER
1866.033
DRAWING NUMBER

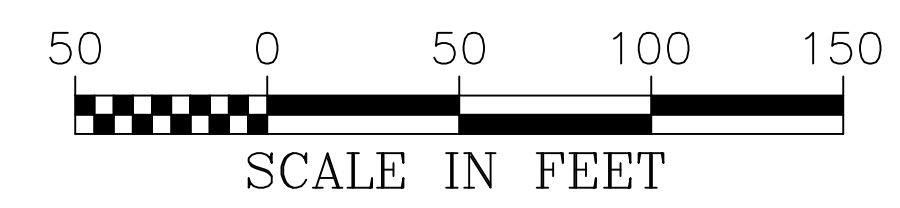
C-215
SHEET 18 of 37

24 HOUR CONTACT:
BARRY BABB
TEL: (770)- 706-4800



SEE SHEET C-301

24 HOUR CONTACT:
BARRY BABB
TEL: (770)- 706-4800



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PHONE: (770) 971-5407 FAX: (770) 971-0620
ENGINEERING, LLC. WE ARE THE ASSOCIATION OF ENGINEERS AND ARCHITECTS.
Drawing Number: #000001 Plot Style: Design.ctb. Plotted By: Chris Wolfe on 10/15/2024, 1:39 PM

FAYETTE COUNTY SHERIFF
VEHICLE TACTICAL TRAINING FACILITY
LAND LOT(S) 172
OF THE 5TH DISTRICT, 5TH SECTION
FAYETTE COUNTY, GEORGIA

NO.	REVISION REFERENCE	DATE
04	INTERNAL TRACK	10/15/2024
02	VIEWPORT REVISION	11/22/2022

NO.	REVISION REFERENCE	DATE
04	INTERNAL TRACK	10/15/2024
02	VIEWPORT REVISION	11/22/2022



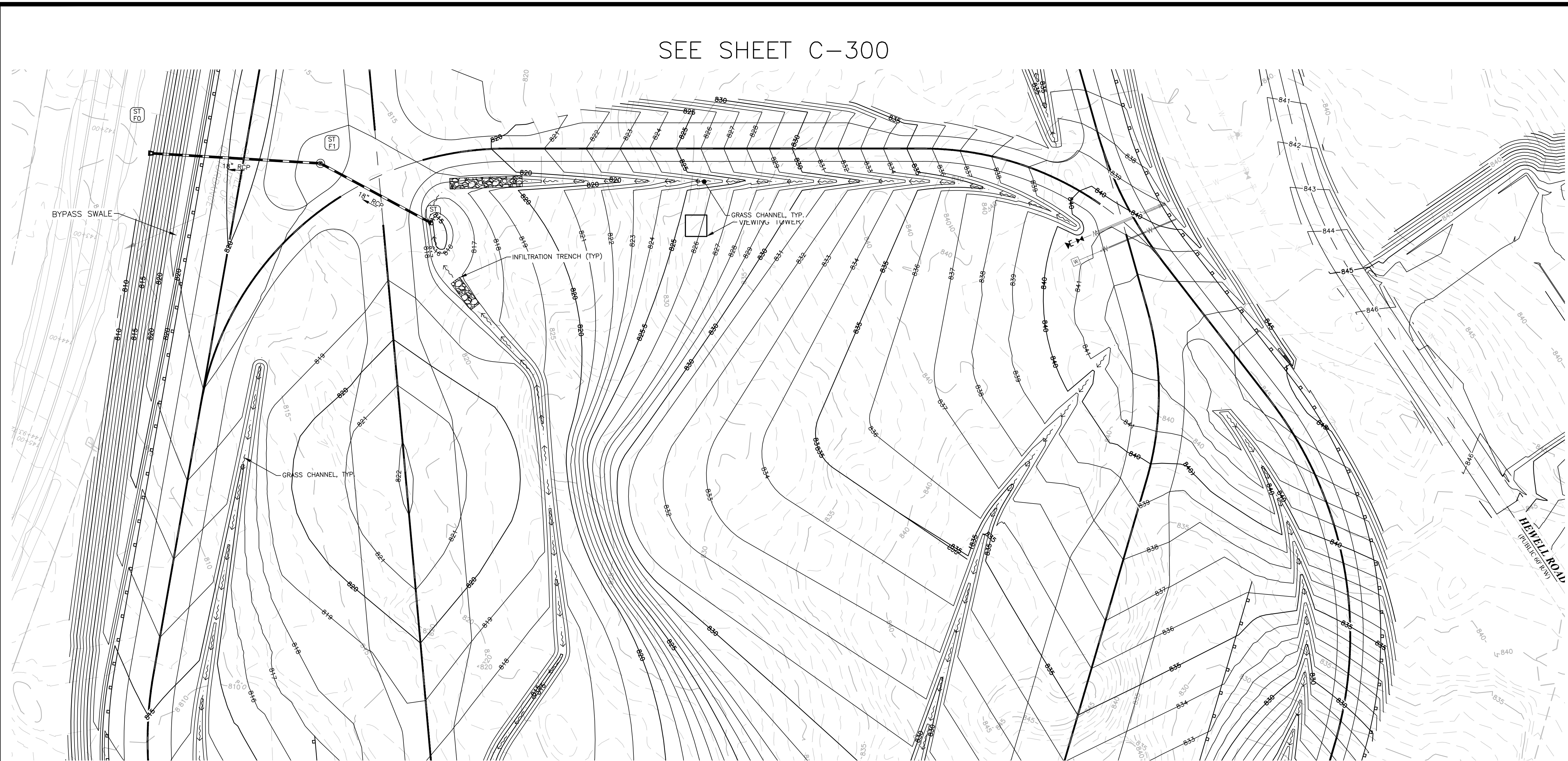
GSWCC CERT #78081
SHEET TITLE
GRADING AND
DRAINAGE PLAN (PAGE
1 OF 3)

DRAWN BY ORG	CHECKED BY SMM
SCALE 1"=50'	ISSUE DATE 04/01/2022

PROJECT NUMBER
1866.033
DRAWING NUMBER
C-300
SHEET 19 of 37

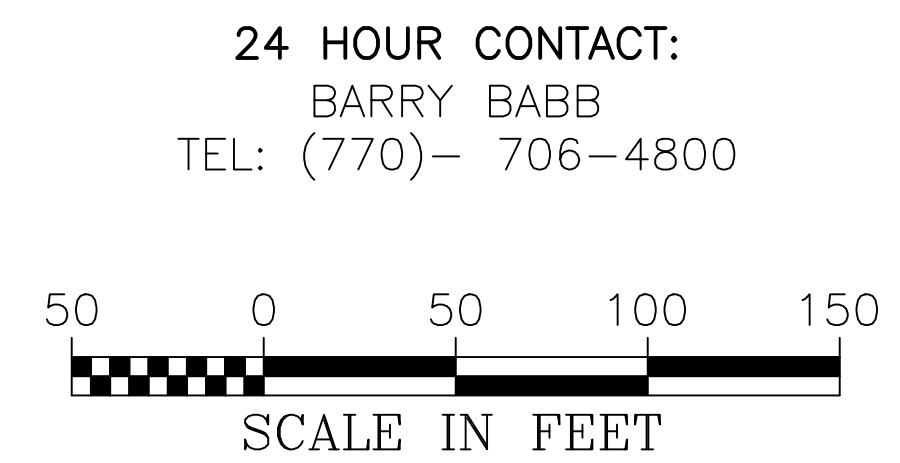
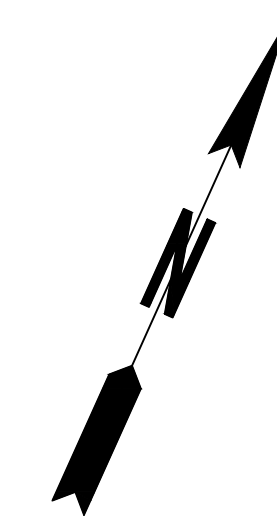
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ISSUED FOR CONSTRUCTION

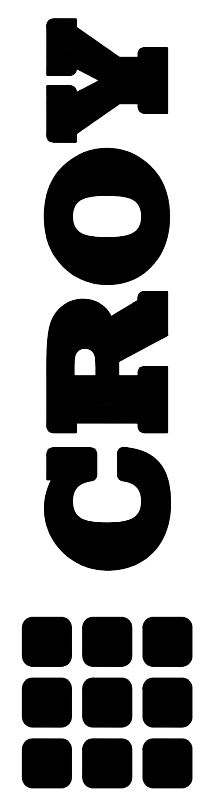


SEE SHEET C-300

SEE SHEET C-302



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VEHICLE TACTICAL TRAINING FACILITY
LAND LOT(S) 172
OF THE 5TH DISTRICT, 5TH SECTION
FAYETTE COUNTY, GEORGIA

ISSUED FOR CONSTRUCTION

NO.	REVISION REFERENCE	DATE
04	INTERNAL TRACK	10/15/2024
02	VIEWPOINT REVISION	11/22/2022

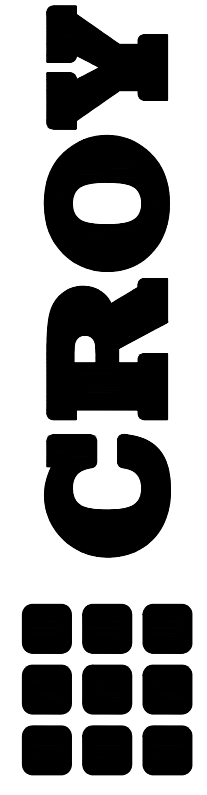
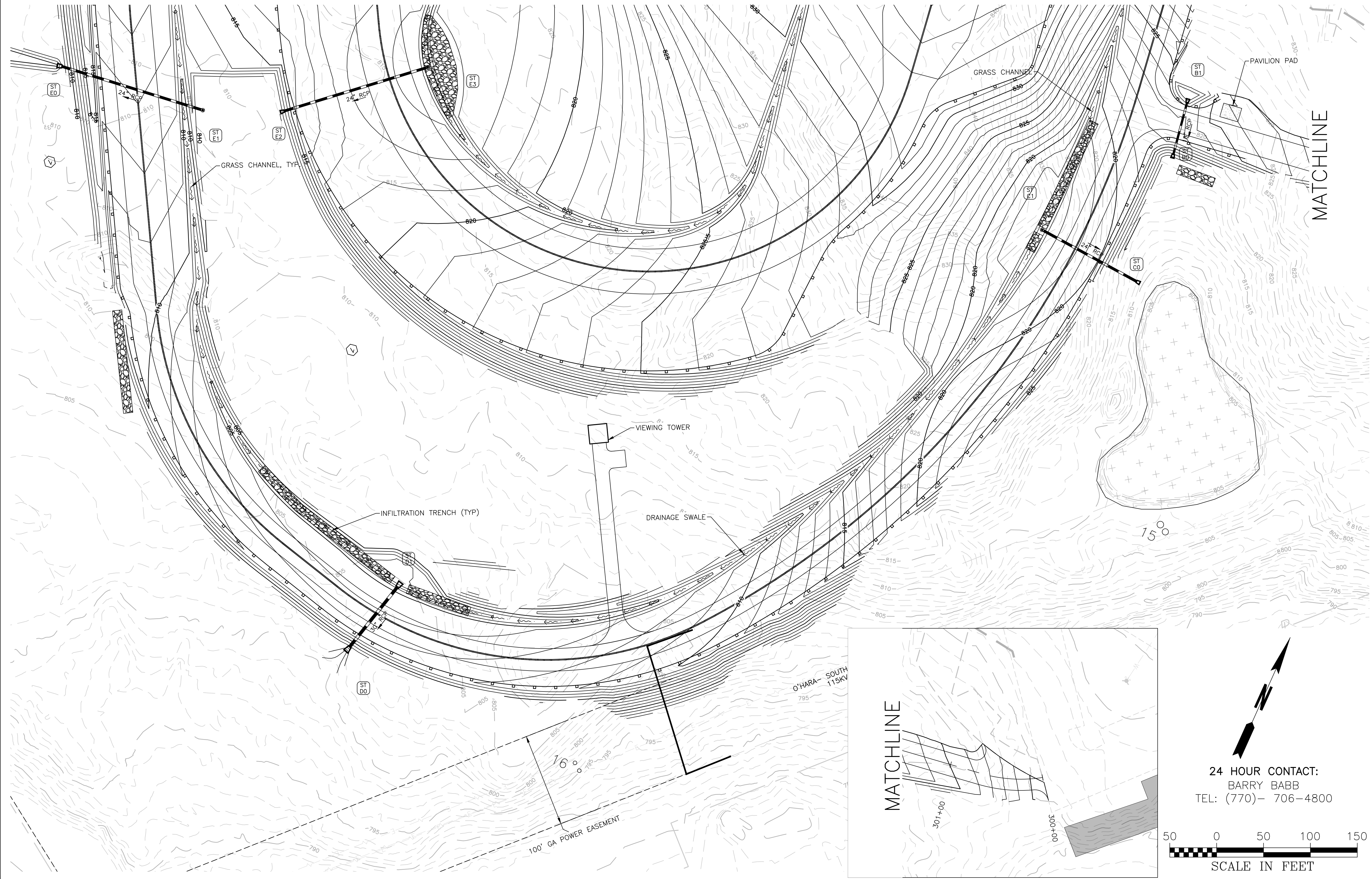


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SHEET TITLE
GRADING AND DRAINAGE PLAN (PAGE 2 OF 3)

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02	VIEWPORT REVISION	11/22/2022

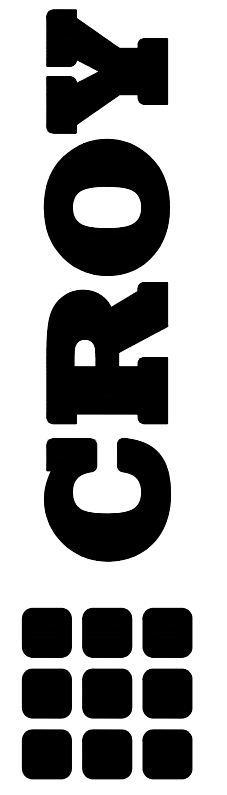
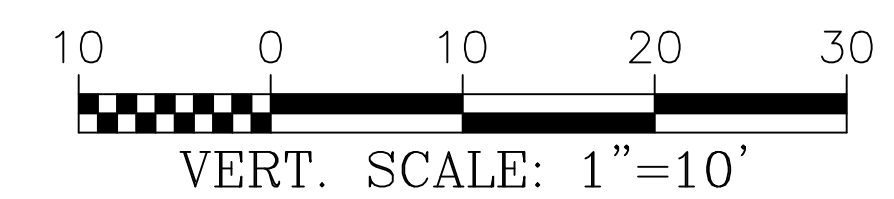
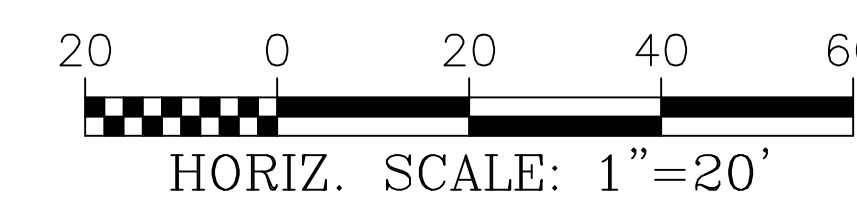
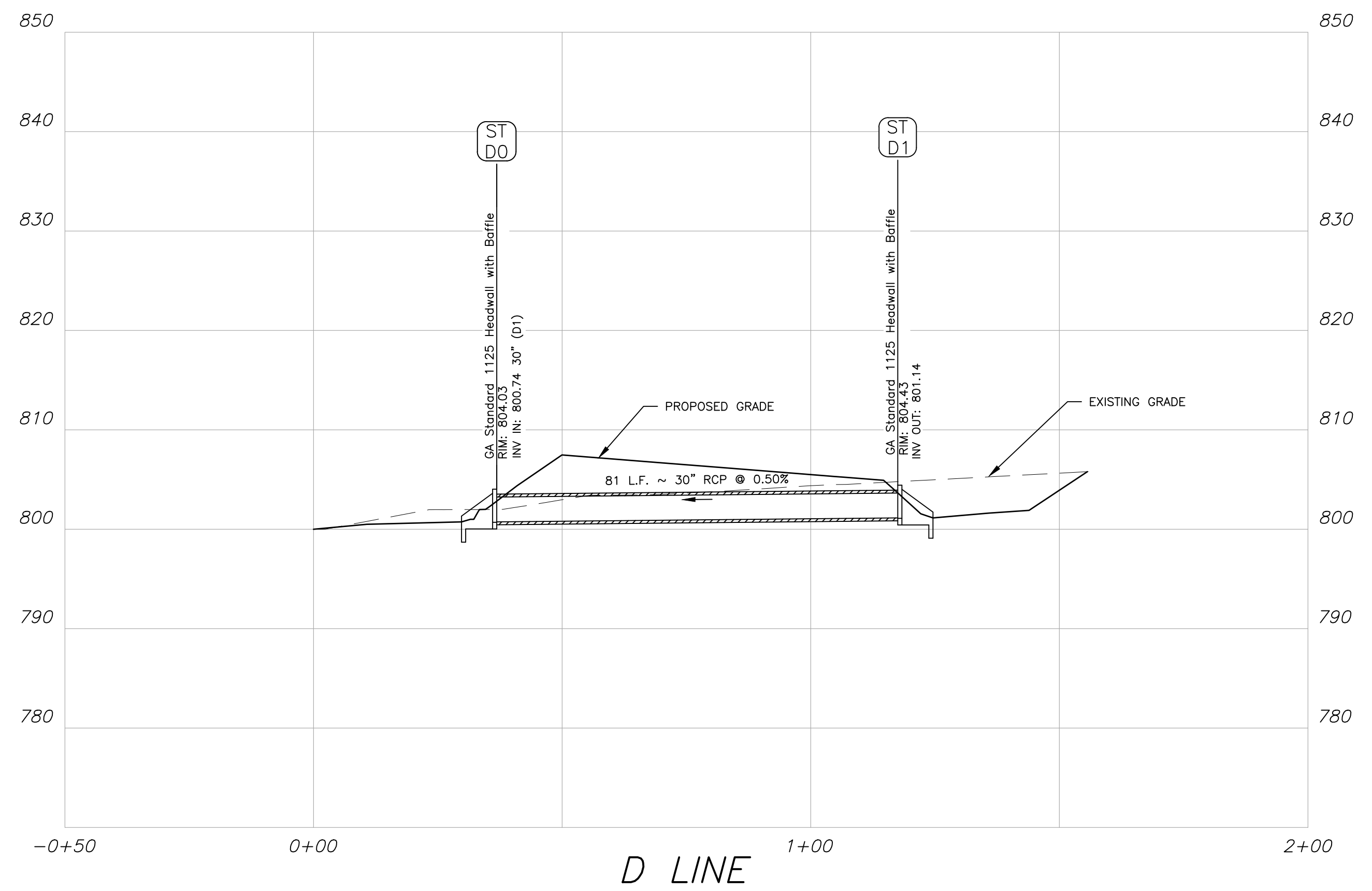
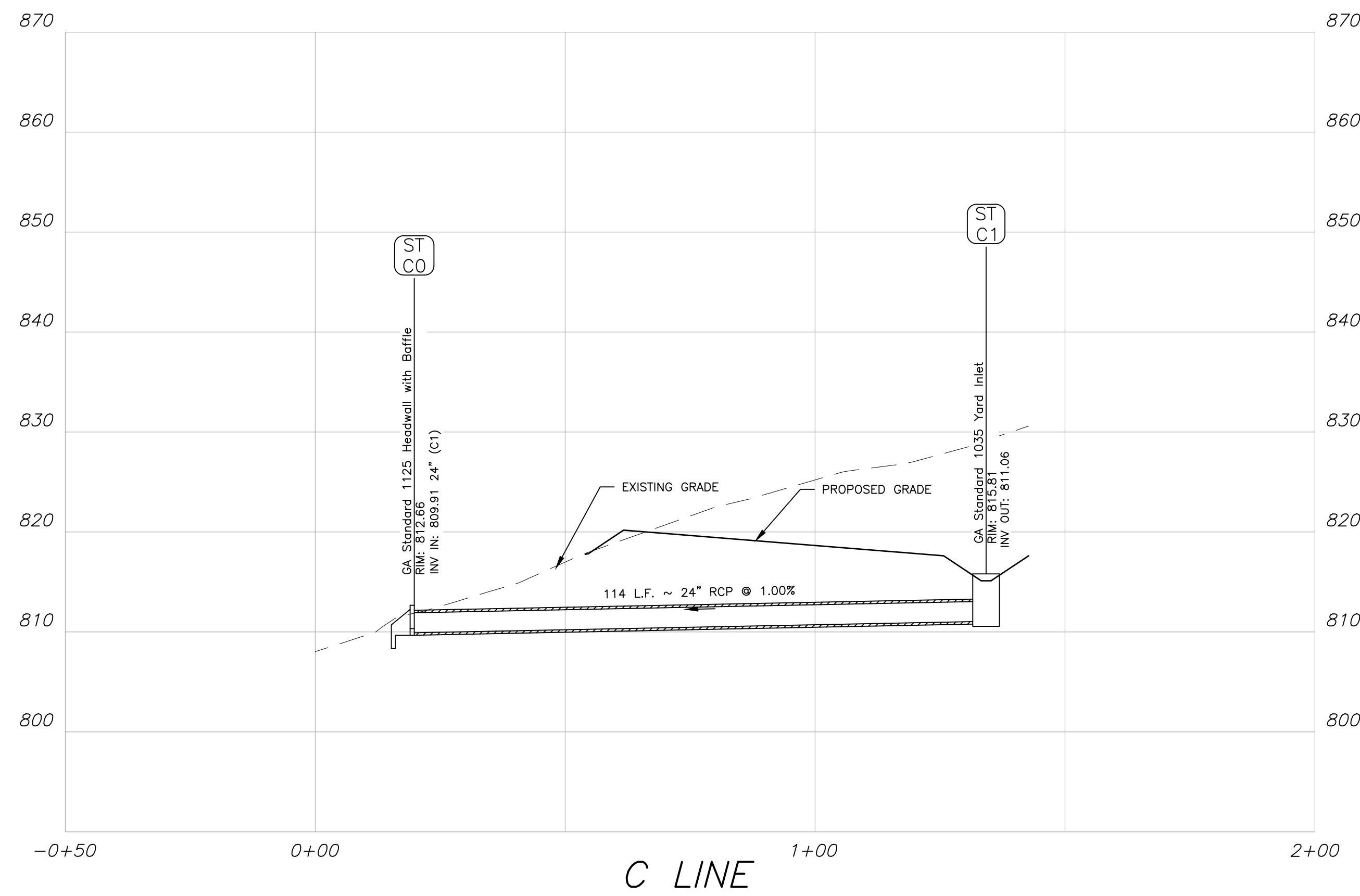
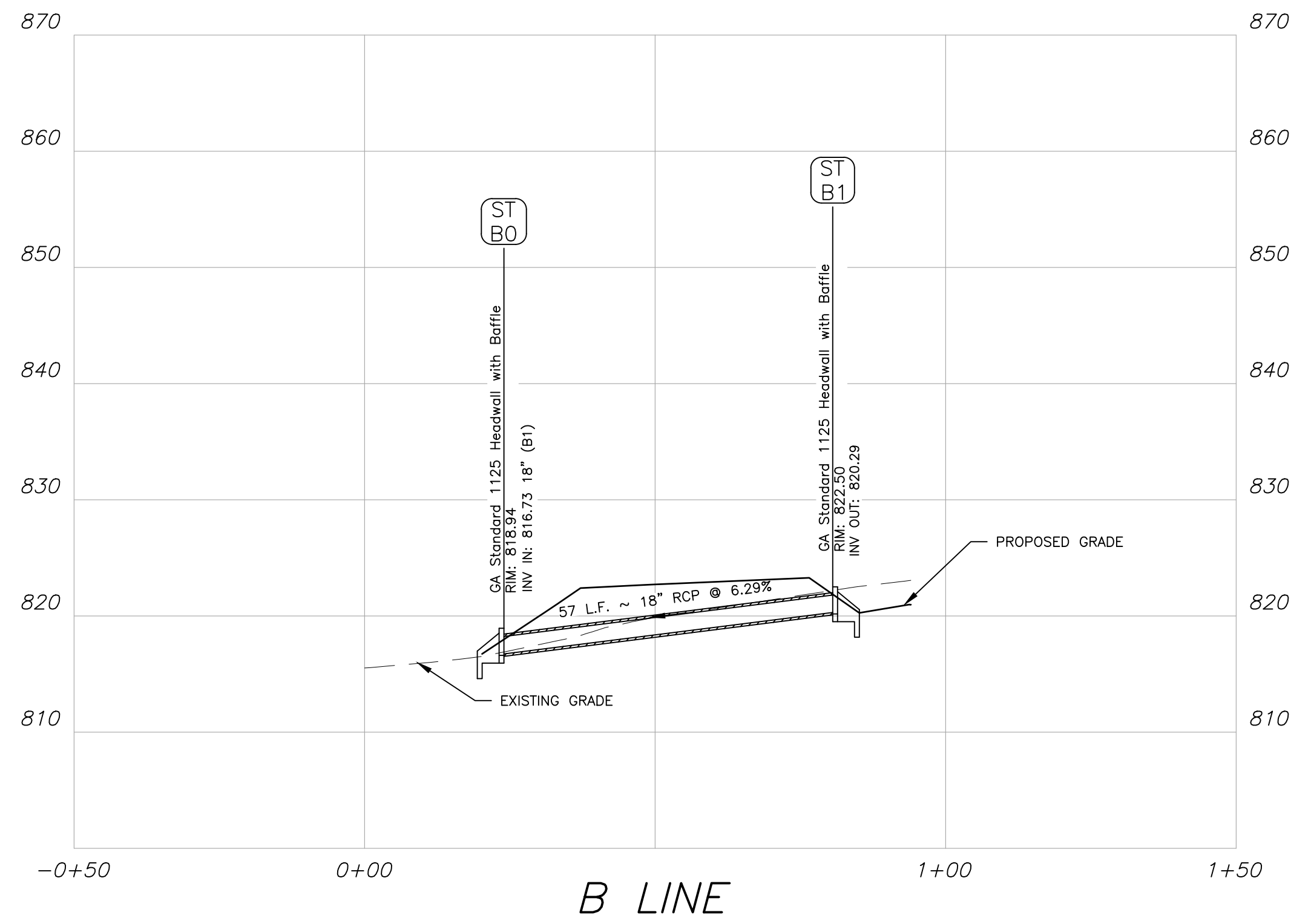
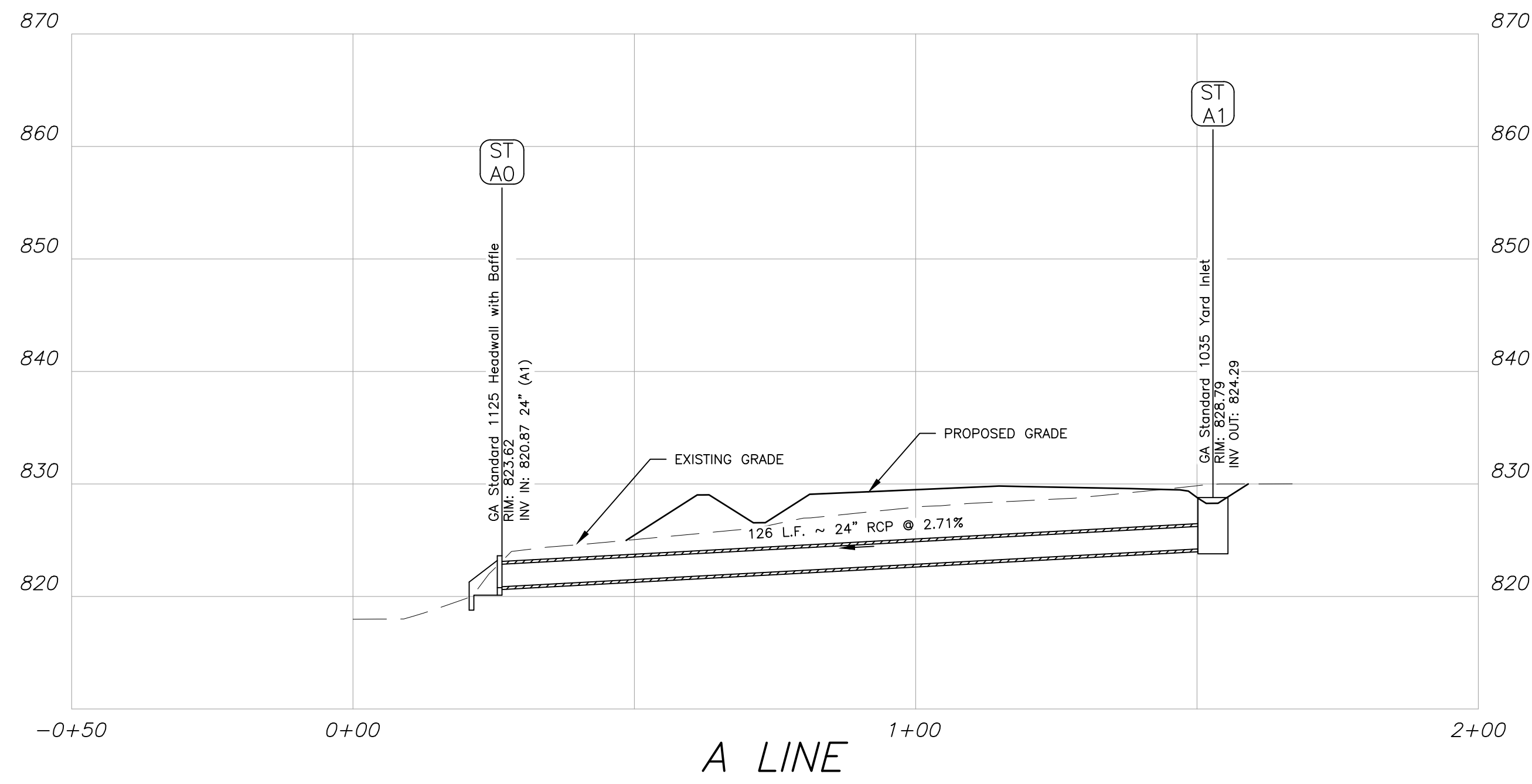


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 SHEET TITLE
 GRADING AND DRAINAGE PLAN (PAGE 3 OF 3)

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 1866.033
 DRAWING NUMBER
C-302
 SHEET 21 of 37

Plot Scale: 1"=50' Drawing Location: P:\Marietta\1866\Fayette County\1866\033\Fayette County Sheriff Vehicle Tactical Training Track\Engineering\Design\1866_033_Design.dwg Plotted By: Chris Wolfe on 10/15/2024, 1:39 PM

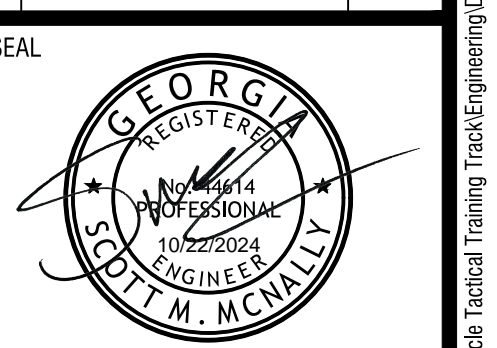


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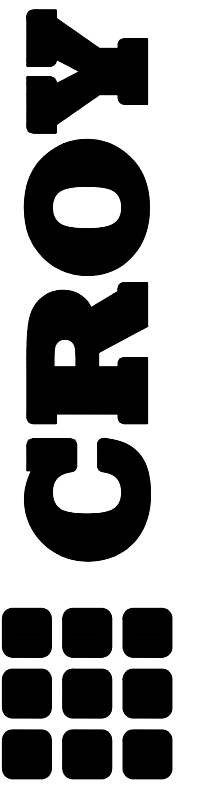
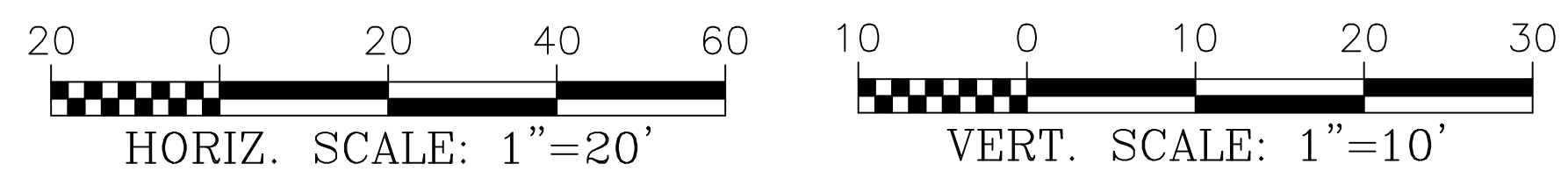
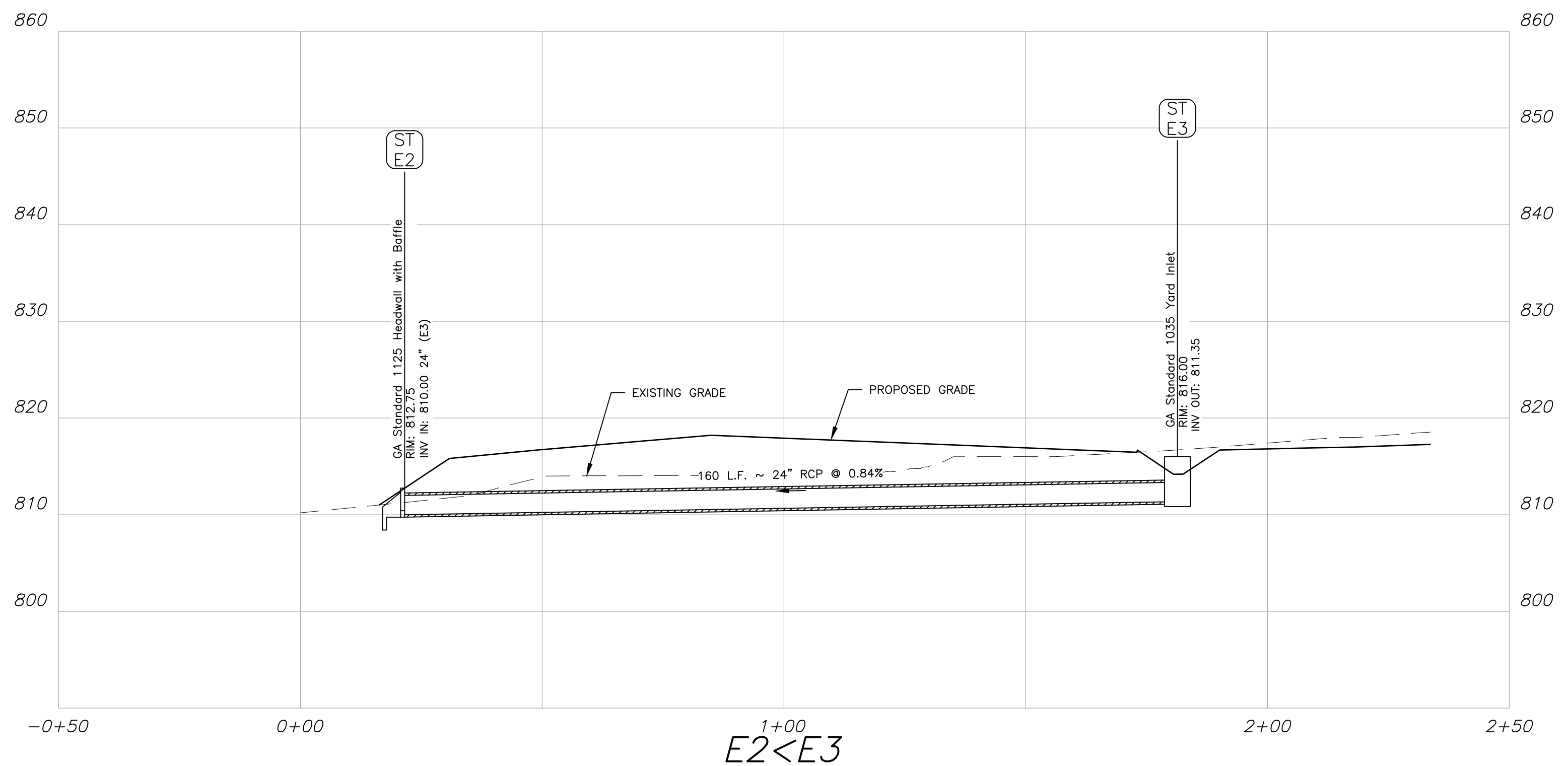
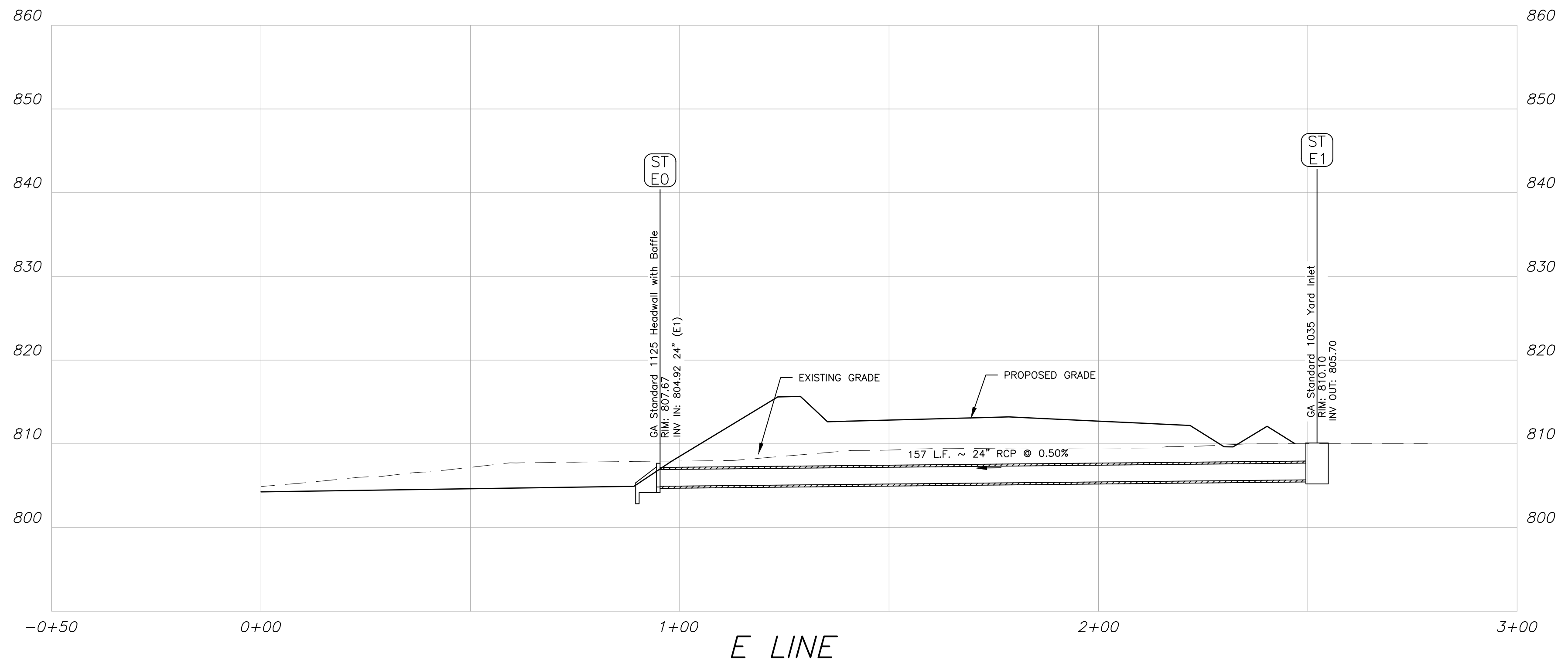
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SHEET TITLE
STORM PROFILES
 (PAGE 1 OF 3)

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C-400
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 OF THE 5TH DISTRICT, 5TH SECTION
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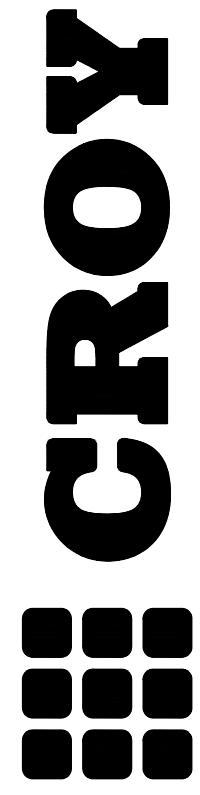
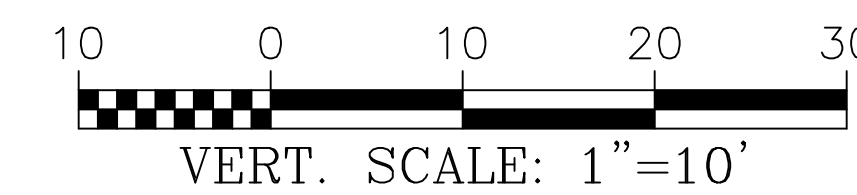
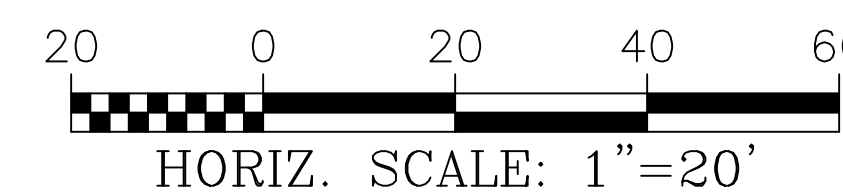
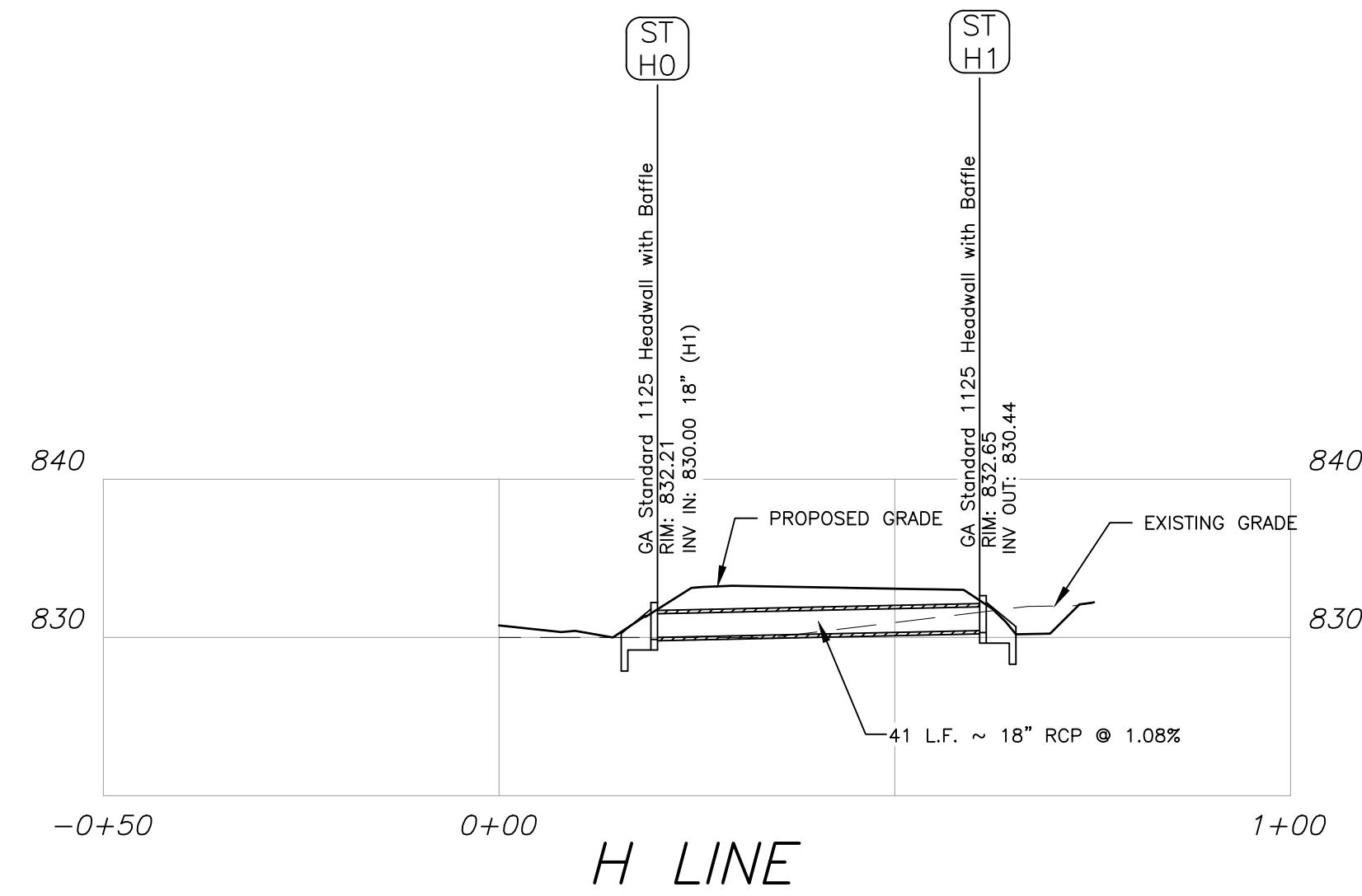
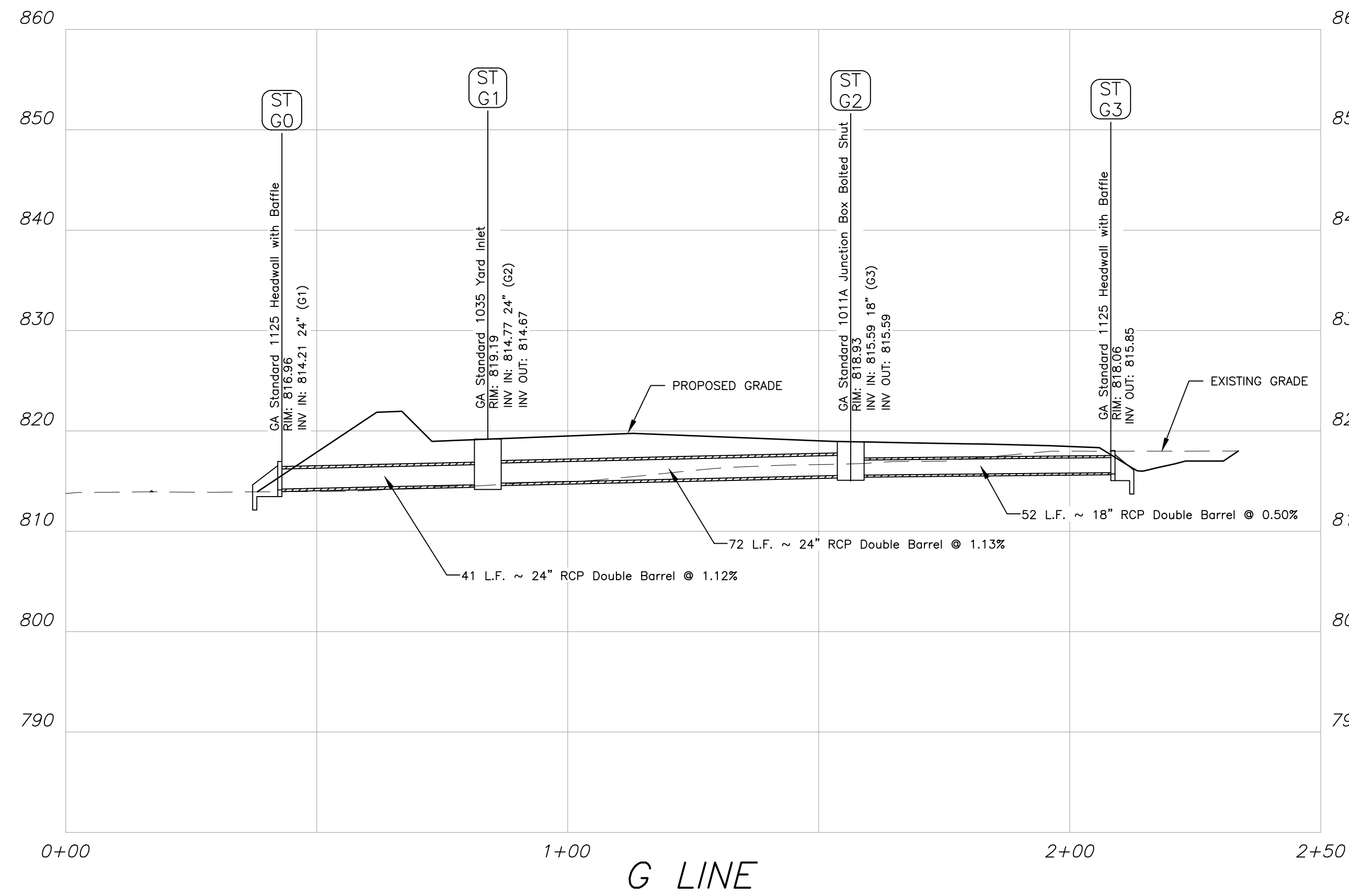
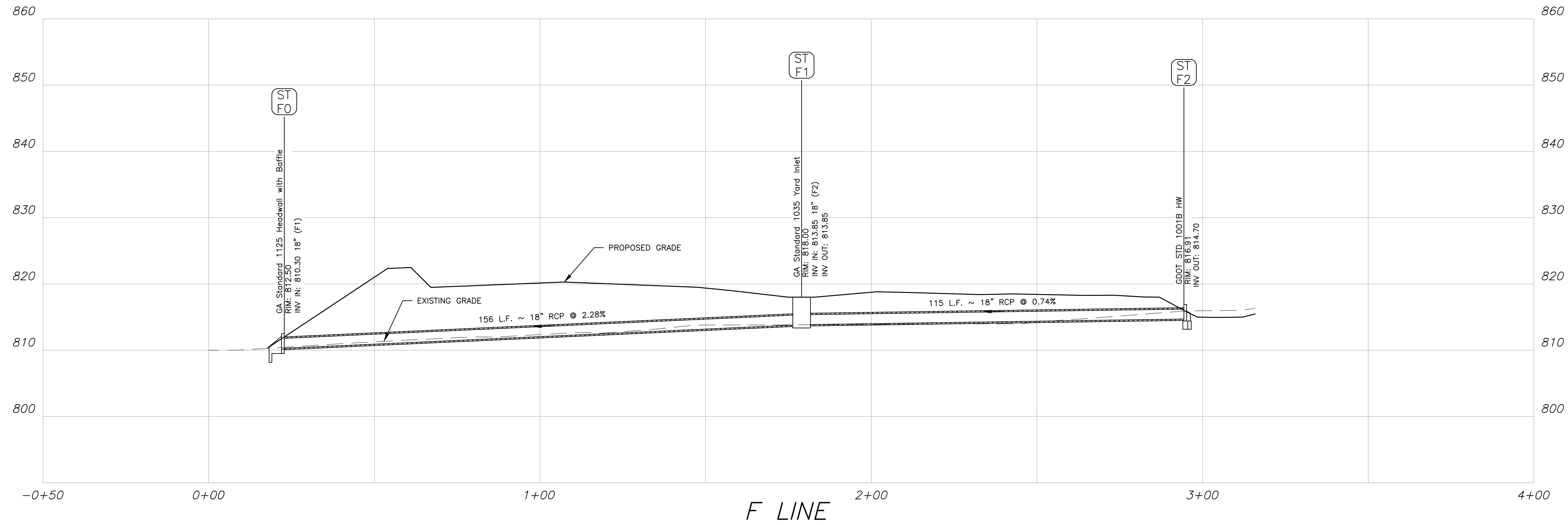
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 SHEET TITLE
 STORM PROFILES
 (PAGE 2 OF 3)

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PROJECT NUMBER
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 DRAWING NUMBER
C-401
 SHEET 23 of 37



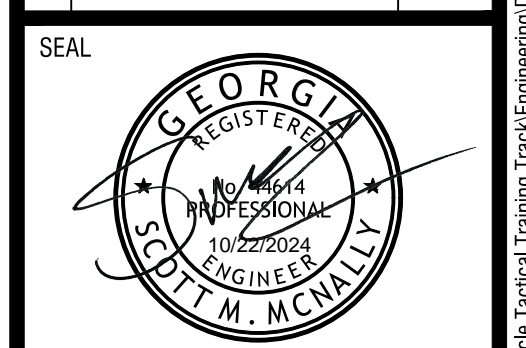
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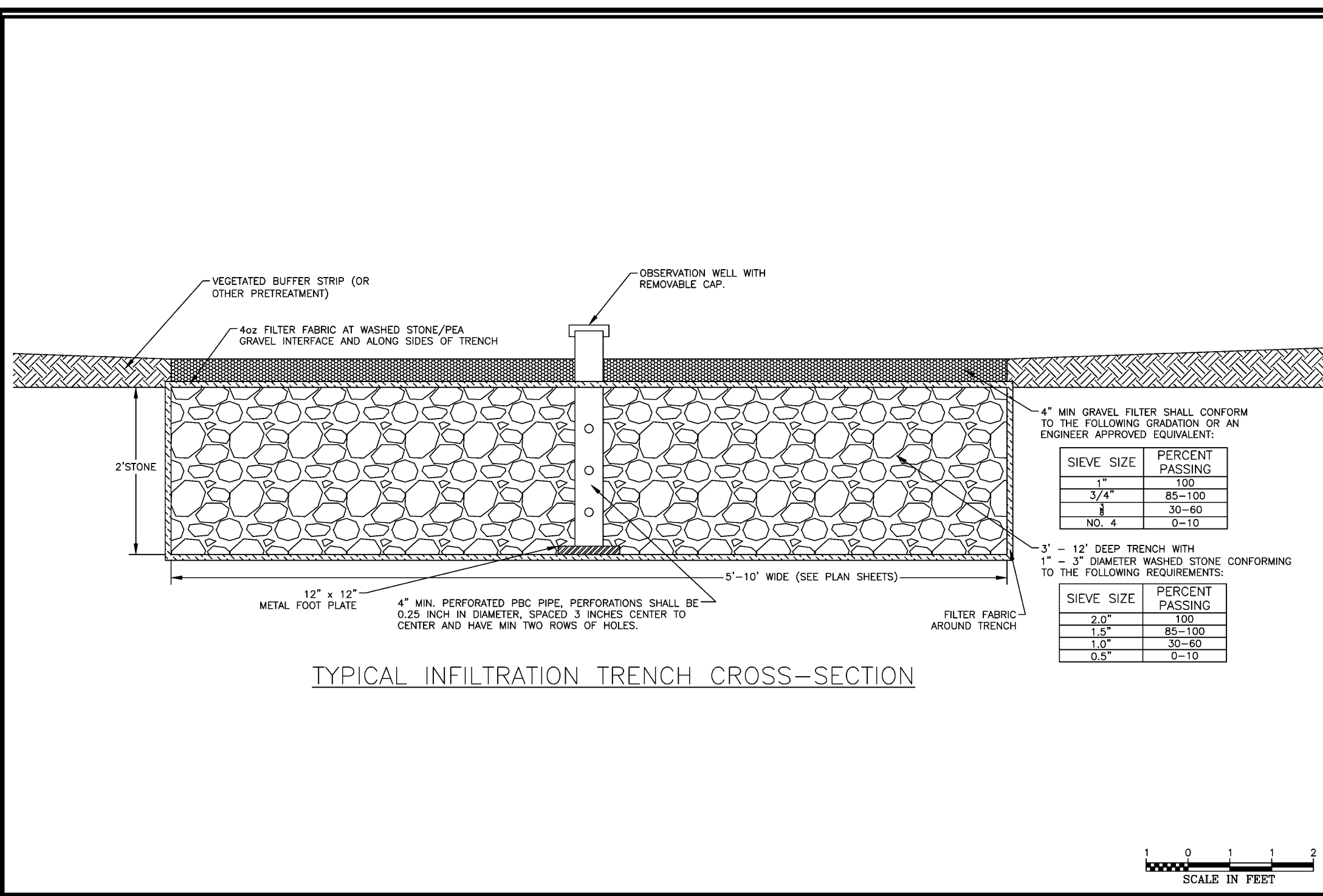
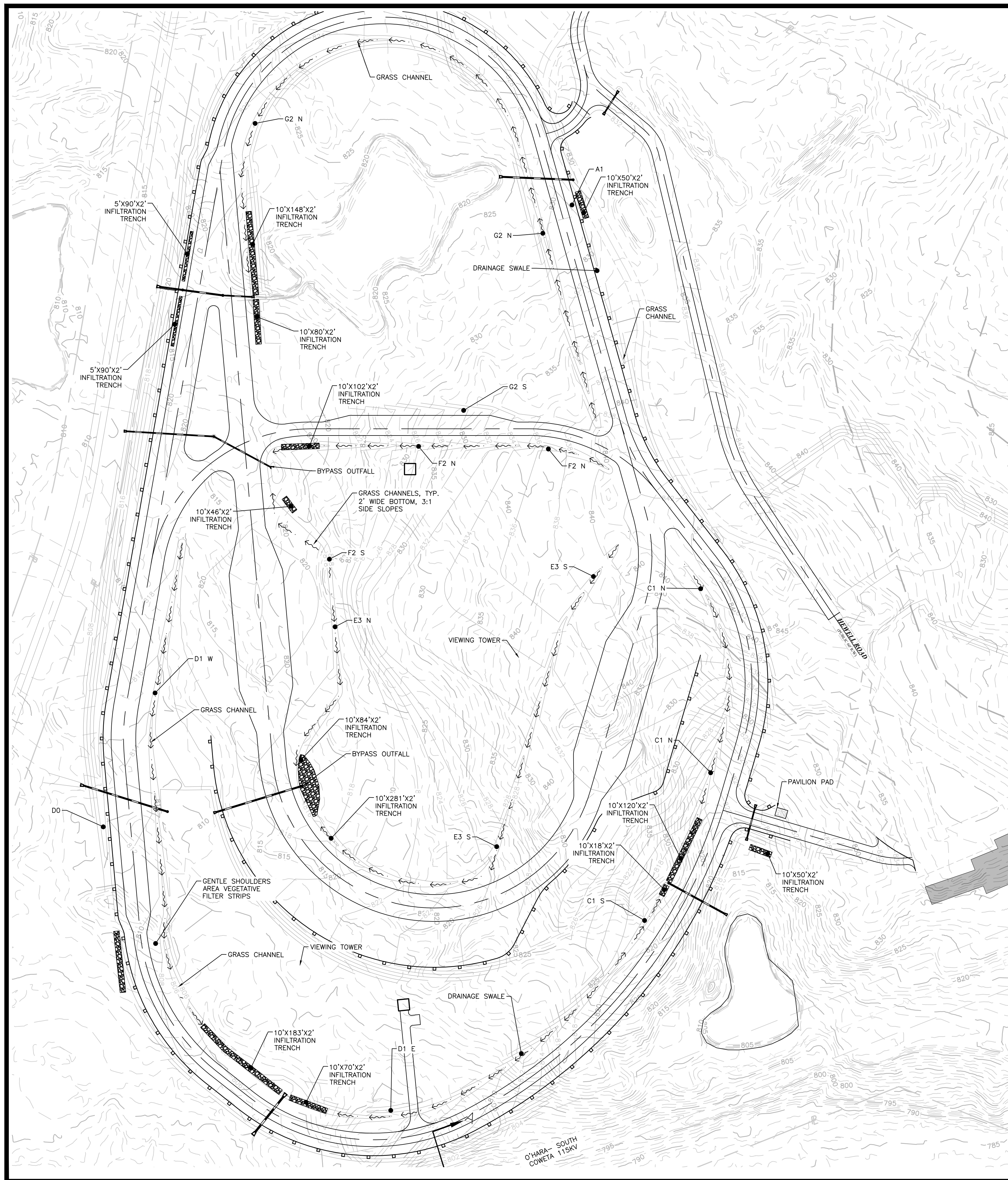


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 SHEET TITLE
 STORM PROFILES
 (PAGE 3 OF 3)

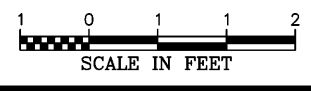
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SCALE N/A	ISSUE DATE 04/01/2022

PROJECT NUMBER
1866.033
 DRAWING NUMBER
C-402
 SHEET 24 of 37

Drawing Location: P:\Marietta\1866 Fayette County\1866.033 Fayette County Sheriff Vehicle Tactical Training Track\Engineering\Design\1866.033_Design.dwg

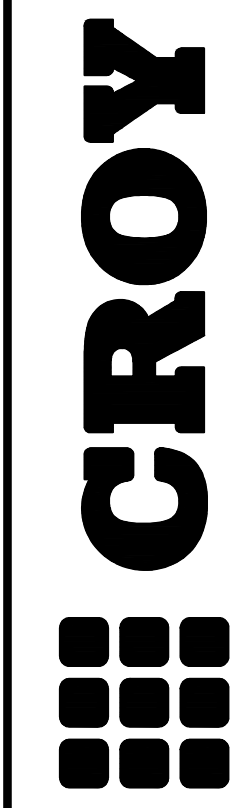


TYPICAL INFILTRATION TRENCH CROSS-SECTION



24 HOUR CONTACT:
 BARRY BABB
 TEL: (770)- 706-4800

SCALE IN FEET



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VEHICLE TACTICAL TRAINING FACILITY
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NO.	REVISION REFERENCE	DATE
04	INTERNAL TRACK	10/15/2022

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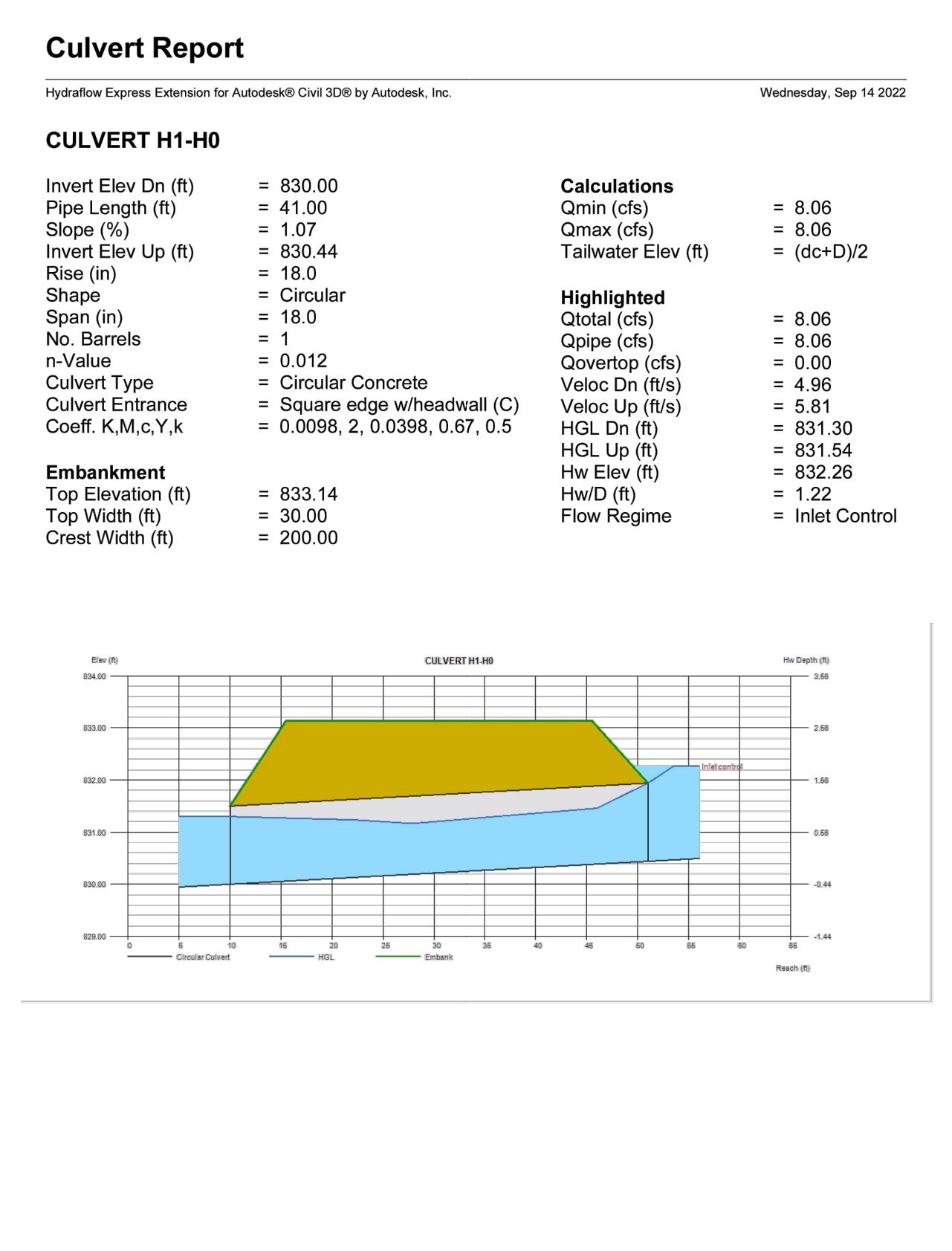
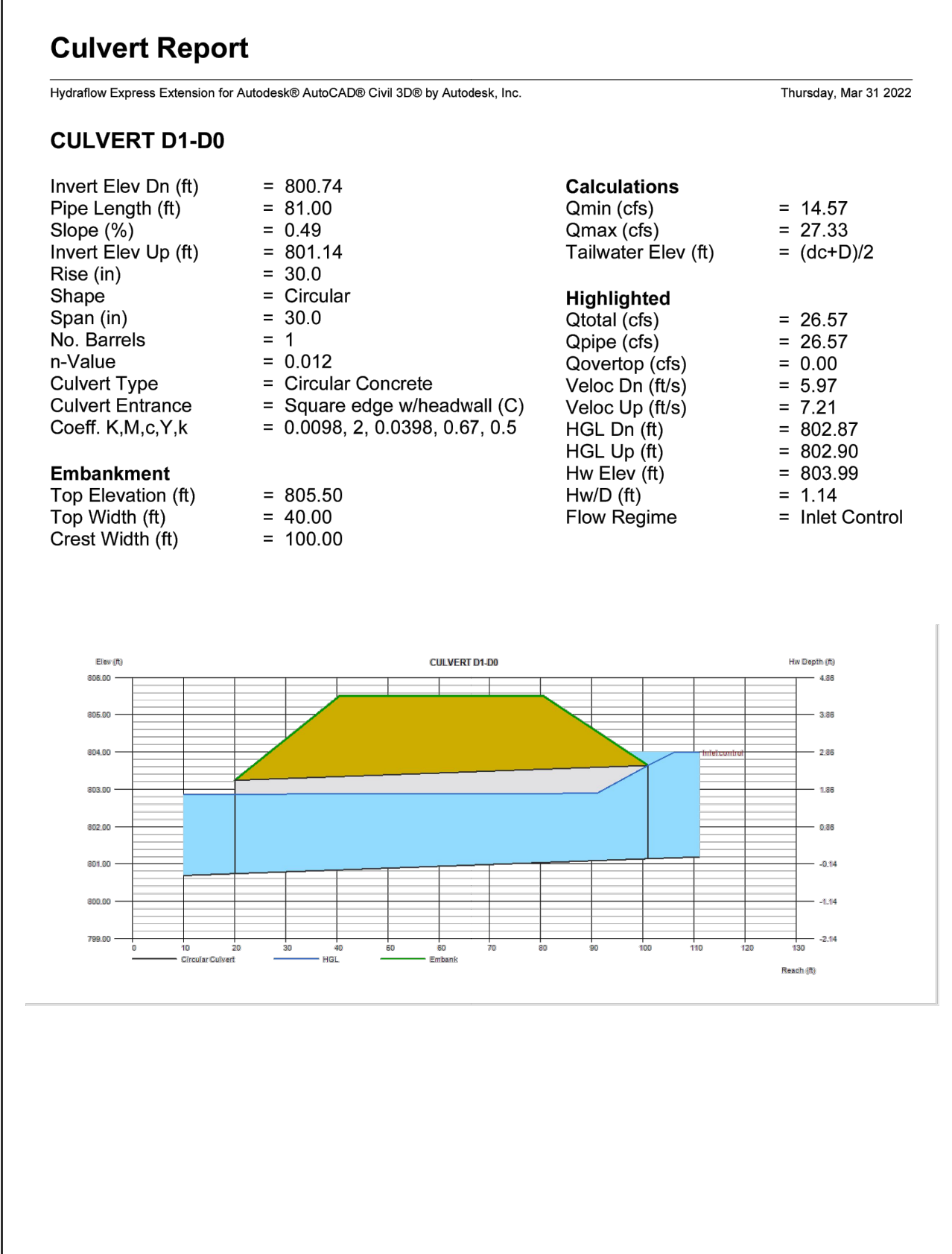
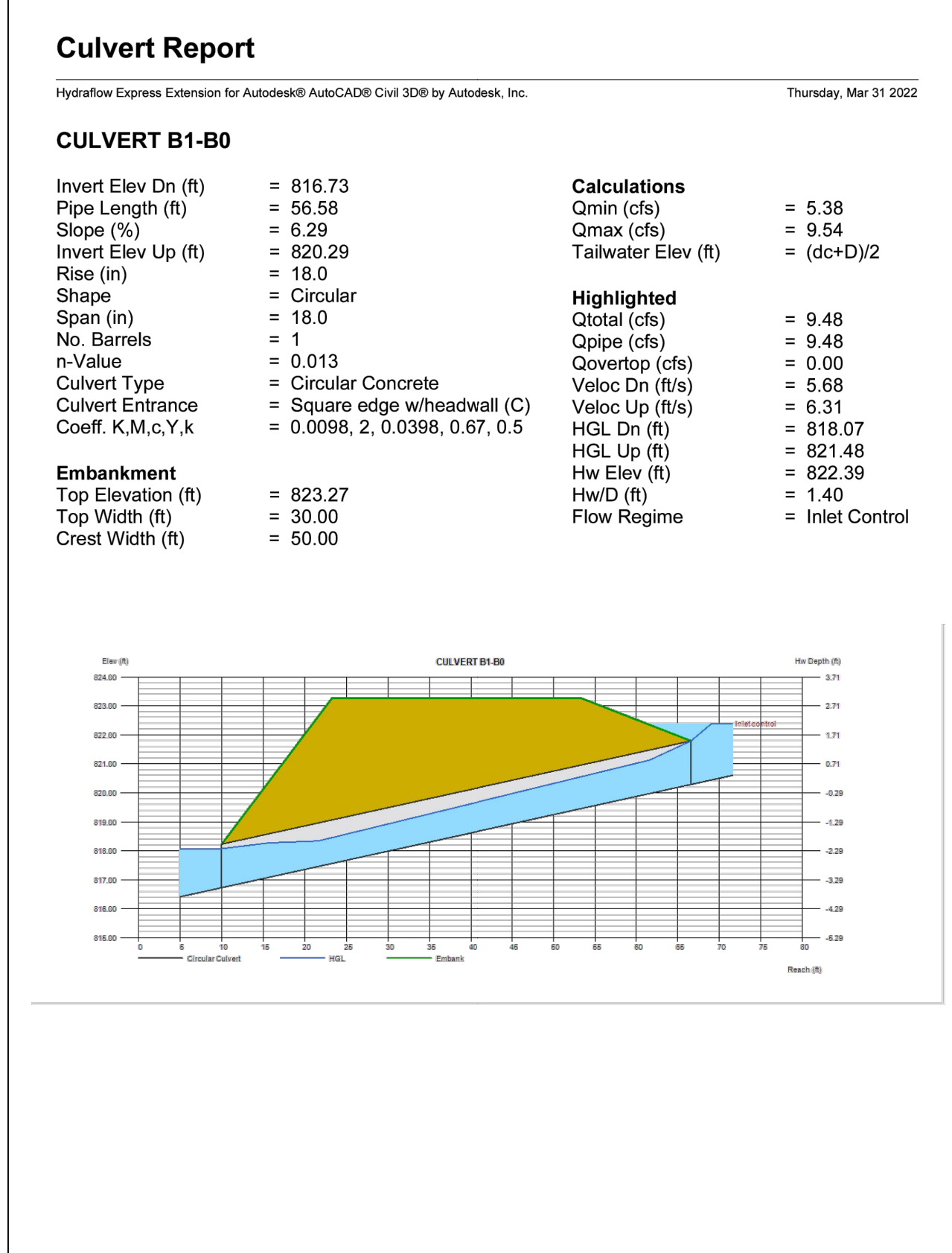
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SHEET TITLE
**STORMWATER
 MANAGEMENT SHEET**

DRAWN BY ORG	CHECKED BY SMM
SCALE 1"=100'	ISSUE DATE 04/01/2022

PROJECT NUMBER
1866.033
 DRAWING NUMBER
C-403
 SHEET 25 of 37

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100 YR STORM

Line	ToLine	LineLength (ft)	Incr.Area (ac)	TotalArea (ac)	RunoffCoeff (C)	Incr.Cx A	TotalCx A	InletTime (min)	TimeConc (min)	RnfallInt (in/hr)	TotalRunoff (cfs)	AdnFlow (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevDn (ft)	Inv ElevUp (ft)	HGLDn (ft)	HGLUp (ft)	Grnd/RimDr (ft)	Grnd/RimUp (ft)	Line ID
1	Outfall	40.708	1.64	1.64	0.48	0.79	0.79	6	6	9.5	7.47	0	7.47	11.83	5.13	18	1.08	830	830.44	831.28	831.5	832.21	832.65	H0<H1
2	Outfall	126.352	5.44	5.44	0.45	2.45	2.45	6	6	9.5	23.24	0	23.24	40.31	7.87	24	2.71	820.87	824.29	822.73	826	823.62	828.79	A0<A1
3	Outfall	56.582	2.28	2.28	0.35	0.8	0.8	7.7	7.7	9	7.16	0	7.16	28.54	5.49	18	6.29	816.73	820.29	817.77	821.33	818.94	822.5	B0<B1
4	Outfall	41.021	0.48	11.4	0.63	0.3	5	6	9.7	8.4	42.1	0	42.1	44.42	9.06	30	1	813	813.41	815.34	815.58	816.29	819.19	G0<G1
5	4	130.939	10.92	10.92	0.43	4.7	4.7	9.5	9.5	8.5	39.84	0	39.84	42.89	8.88	30	0.93	813.41	814.63	815.58	816.75	819.19	818.42	G1<G2
6	Outfall	156.155	0.22	4.4	0.55	0.12	1.96	6	7.5	9	17.72	0	17.72	24.49	6.49	24	1	810.3	811.86	812.06	813.38	812.5	818	F0<F1
7	6	107.643	4.18	4.18	0.44	1.84	1.84	7.2	7.2	9.1	16.77	0	16.77	44.43	6.66	24	3.29	811.86	815.4	813.38	816.88	818	817.61	F1<F2
8	Outfall	159.815	9.14	9.14	0.47	4.3	4.3	6	6	9.5	40.78	0	40.78	40.83	9.28	30	0.84	810	811.35	812.05	813.49	817.61	816	E2<E3
9	Outfall	114.408	4.35	4.35	0.48	2.09	2.09	6	6	9.5	19.82	0	19.82	24.57	7.01	24	1.01	809.91	811.06	811.71	812.66	812.66	815.81	C0<C1
10	Outfall	156.879	0.84	0.84	0.35	0.29	0.29	6	6	9.5	2.79	103.73	106.52	50.95	15.07	36	0.5	804.92	805.7	808.06	811.47	807.67	810.1	E0<E1
11	Outfall	80.647	9.37	9.37	0.45	4.22	4.22	6	6	9.5	40.03	0	40.03	31.29	8.3	30	0.5	800.74	801.14	803.05	803.74	804.03	804.43	D0<D1

4.29 Vegetated Filter Strip

KEY CONSIDERATIONS

- DESIGN CRITERIA**
 - Runoff from an adjacent impervious area must be evenly distributed across the filter strip as sheet flow.
 - Can be used as part of the runoff conveyance system to provide pretreatment.
 - Slope should be between 2-5%.
 - Both the top and toe of the slope should be as flat as possible to encourage sheet flow and prevent erosion.
 - Uniform grading across filter strip to encourage sheet flow and prevent concentrated flows.
- ADVANTAGES / BENEFITS**
 - Can provide groundwater recharge.
 - Reasonably low construction cost, effort, and charges to existing landscaping.
 - Works well for mitigating highway runoff pollution.
 - Works well alone or in series.
 - Adaptable to a variety of site conditions.
 - Flexible in design and layout.
 - Lower cost alternative.
- DISADVANTAGES / LIMITATIONS**
 - Cannot alone achieve the 80% TSS removal target.
 - Large land requirement.
 - Requires periodic repair, regrading, and sediment removal to prevent channelization.
 - Not suitable for erosion and concentrated flow.
 - Provides less runoff reduction than most BMPs.
- ROUTINE MAINTENANCE REQUIREMENTS**
 - Mow grass to a height to maintain a dense vegetative cover.
 - Inspect for invasive species and remove as needed.
 - Inspect for grass damage from logging and remove sediment buildup.
 - Inspect vegetation for risk and quality. Seed or soil bare areas.
 - Sheet flow onto filter strips can be difficult to maintain, resulting in concentration of flow.
 - Remove trash, debris, sediment, and dead grass.
 - Reseed or amend as needed.
- POLLUTANT REMOVAL**
 - Metals - Total Phosphorus, Total Nitrogen removal.
 - Metals - Cadmium, Copper, Lead, and Zinc removal.
 - Pathogens - Fecal Coliform.

STORMWATER MANAGEMENT SUSTAINABILITY

- Runoff Reduction
- Water Quality
- Channel Protection
- Overbank Flood Protection
- Extreme Flood Protection

IMPLEMENTATION CONSIDERATIONS

- Land Requirement
- Capital Cost
- Maintenance Burden

Runoff Reduction Credit

- 50% of the RBV conveyed to the practice (A & B hydrologic soil)
- 25% of the RBV conveyed to the practice (C & D hydrologic soil)

ROUTINE MAINTENANCE REQUIREMENTS

- Provides access to BMP and appropriate components.
- Sediment, trash, debris and debris removal, revegetation, and repair of erosion must be completed as necessary to maintain functionality.

POLLUTANT REMOVAL

- Metals - Cadmium, Copper, Lead, and Zinc removal.
- Pathogens - Fecal Coliform.

4.9 Grass Channel

KEY CONSIDERATIONS

- DESIGN CRITERIA**
 - Can be used as part of the runoff conveyance system to provide pretreatment.
 - Can act to partially infiltrate runoff from small storm events if underlying soils are pervious.
 - Less expensive than curb and gutter systems.
 - Should not be used on slopes greater than 4% (1-2% slopes recommended).
 - Potential for bottom erosion and sediment suspension.
 - Standing water may not be acceptable in some areas.
 - Contributing drainage area less than 5 acres.
 - Minimum residence time of 2 minutes.
 - Water quality rainfall event flow velocity less than 1.0 ft/s and flow depth less than 4 inches.
 - Slope slopes are 3:1 or flatter.
 - Minimum soil infiltration rate of 0.2 in/hr.
 - Minimum 2-foot clearance from groundwater table.
- ADVANTAGES / BENEFITS**
 - Lower cost.
 - Reduces runoff from impervious areas.
 - Ideal for lower environments (along roadways).
 - Stormwater collection and conveyance.
 - Aesthetic benefits.
 - Well suited for linear environments, interchanges, and facilities.
 - May be contained within the roadway right-of-way.
- DISADVANTAGES / LIMITATIONS**
 - Cannot achieve the 80% TSS removal target alone; must be used in series with other BMPs for removal credit.
 - Limitations for drainage area, flow, velocity, and flow depth.
 - Design dependent on existing site conditions and topography.
- ROUTINE MAINTENANCE REQUIREMENTS**

STORMWATER MANAGEMENT SUSTAINABILITY

- Runoff Reduction
- Water Quality
- Channel Protection
- Overbank Flood Protection
- Extreme Flood Protection

IMPLEMENTATION CONSIDERATIONS

- Land Requirement
- Capital Cost
- Maintenance Burden

Runoff Reduction Credit

- 25% of the RBV conveyed to the practice (A & B hydrologic soil)
- 25% of the RBV conveyed to the practice (C & D hydrologic soil)

ROUTINE MAINTENANCE REQUIREMENTS

- Provides access to BMP and appropriate components.
- Sediment, trash, debris and debris removal, revegetation, and repair of erosion must be completed as necessary to maintain functionality.

POLLUTANT REMOVAL

- Metals - Cadmium, Copper, Lead, and Zinc removal.
- Pathogens - Fecal Coliform.

4.12 Infiltration Practices

KEY CONSIDERATIONS

- DESIGN CRITERIA**
 - Pretreatment should be provided upstream of all infiltration practices.
 - Infiltration practices should be designed to completely drain within 72 hours of the end of a rainfall event.
 - Underlying native soils should have an infiltration rate of 0.5 in/hr or more.
 - The distance from the bottom of an infiltration practice to the top of the water table should be 2 feet or more.
 - Facilities include an excavated trench (2-10 foot depth) filled with stone media (3-2.5 inch diameter), as well as pea gravel and sand filter layers.
 - A pretreatment device is recommended upstream from the practice.
 - Observation wells are used to monitor percolation and performance of the practice.
 - Infiltration practices must not be placed under pavement or concrete.
- ADVANTAGES / BENEFITS**
 - Considered a LIDIG control.
 - Provides for groundwater recharge.
 - Helps restore pre-development hydrology on development sites and reduces post-construction stormwater runoff rates, volumes and pollutant loads.
 - Can be integrated into development plans as attractive landscaping features.
- DISADVANTAGES / LIMITATIONS**
 - Can only be used to manage runoff from relatively small drainage areas of 5 acres or less.
 - Should not be used to "receive" stormwater runoff that contains high sediment loads.
 - Potential for groundwater contamination.
 - High clogging potential; should not be used on sites with fine particle soils.
 - Significant setbacks requirements.
 - Restrictions to land area.
 - Geotechnical testing required, two borings per practice.
- ROUTINE MAINTENANCE REQUIREMENTS**
 - Keep practice free of trash, debris, and dirt.
 - Inspect area for ponding water.
 - If structures become clogged, remove aggregate, wash and replace.
 - Can be responsible for clogging, so occurs in residential areas it is not in tree canopy.
 - Keep observation well easily and safely accessible.
 - Remove sediment from forslay or other pretreatment practice.
 - Replace pea gravel layer as needed.
- POLLUTANT REMOVAL**
 - Total Suspended Solids
 - Metals - Total Phosphorus, Total Nitrogen removal.
 - Metals - Cadmium, Copper, Lead, and Zinc removal.
 - Pathogens - Fecal Coliform.

STORMWATER MANAGEMENT SUSTAINABILITY

- Runoff Reduction
- Water Quality
- Channel Protection
- Overbank Flood Protection
- Extreme Flood Protection

IMPLEMENTATION CONSIDERATIONS

- Land Requirement
- Capital Cost
- Maintenance Burden

Runoff Reduction Credit

- 100% Runoff Reduction Volume

POLLUTANT REMOVAL

- Total Suspended Solids
- Metals - Total Phosphorus, Total Nitrogen removal.
- Metals - Cadmium, Copper, Lead, and Zinc removal.
- Pathogens - Fecal Coliform.

CROY

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FAYETTE COUNTY SHERIFF
VEHICLE TACTICAL TRAINING FACILITY
LAND LOT(S) 172
OF THE 5TH DISTRICT, 5TH SECTION
FAYETTE COUNTY, GEORGIA

04 INTERNAL TRACK 10/15/2024
NO. REVISION REFERENCE DATE

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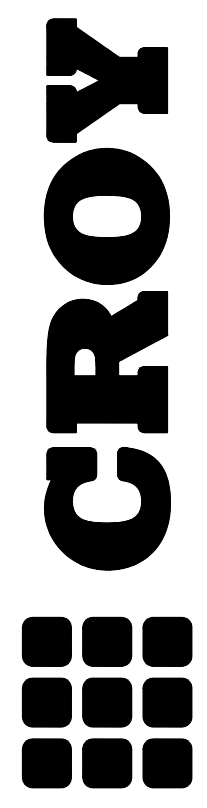
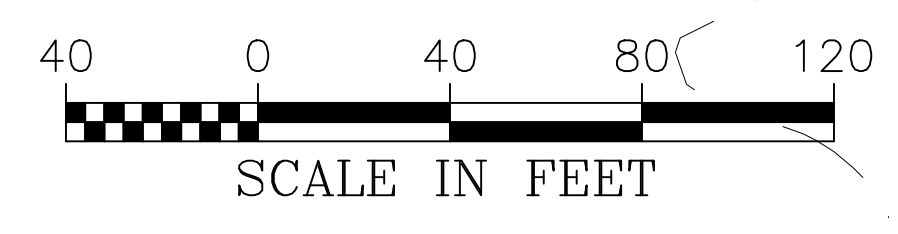
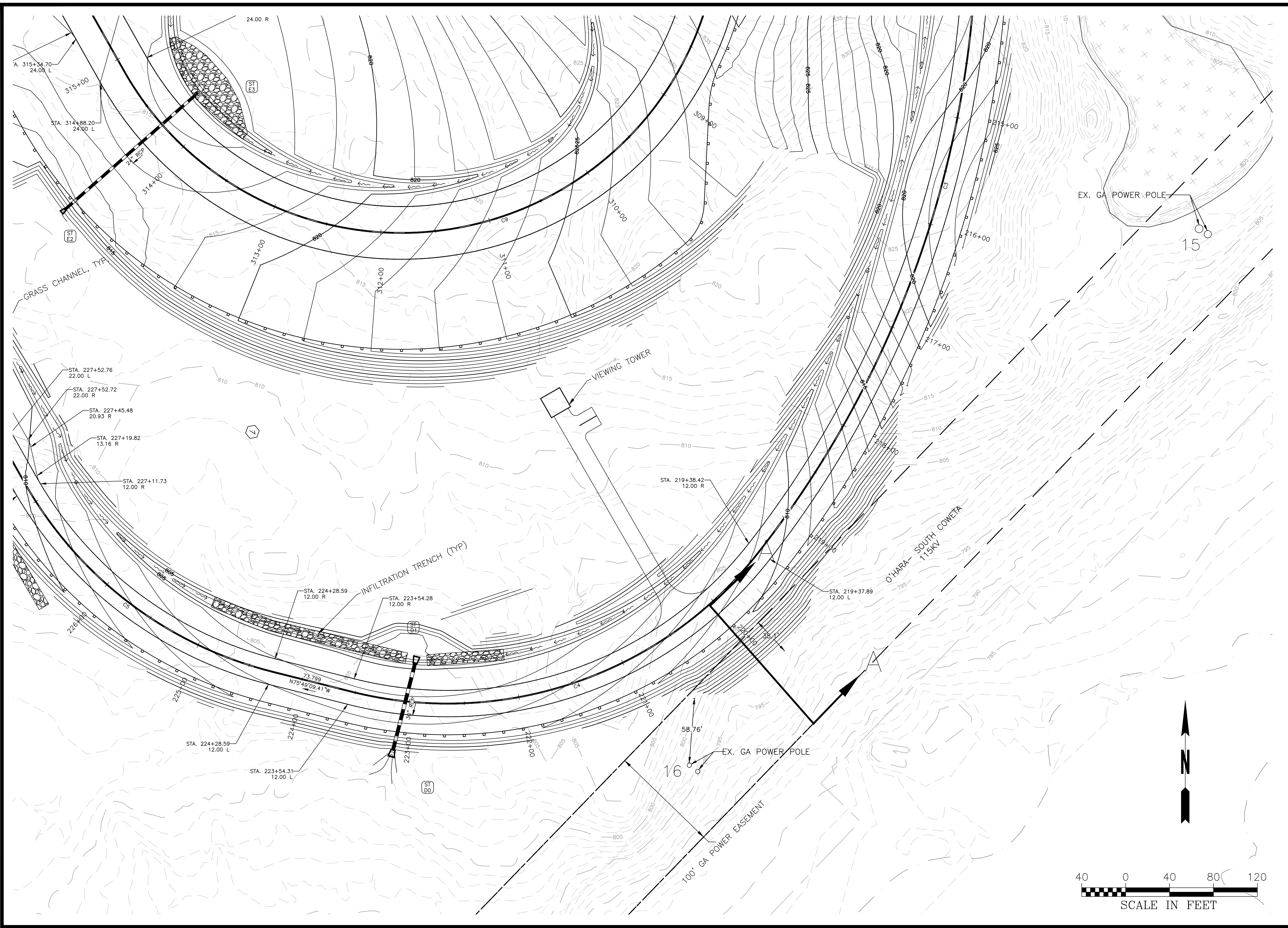
GEORGIA REGISTERED PROFESSIONAL ENGINEER
10/22/2024
M. MCNEILLY

GSWCC CERT #78081

SHEET TITLE
STORMWATER MANAGEMENT DATA

DRAWN BY	TBA	CHECKED BY	SMM
SCALE	N/A	ISSUE DATE	04/01/2024
PROJECT NUMBER	1866.033		
DRAWING NUMBER	C-404		
SHEET 26 of 37			

Drawing Location: P:\Marietta\1866 Fayette County\1866\033 Fayette County Sheriff Vehicle Tactical Training Track\Engineering\Design\1866_033_Cover_NotesA.dwg
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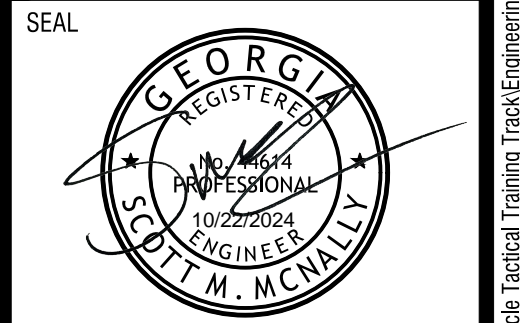


200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
 MARIETTA, GA 30062
 PHONE: (770) 971-5407 FAX: (770) 971-0620
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FAYETTE COUNTY SHERIFF
VEHICLE TACTICAL TRAINING FACILITY
 LAND LOT(S) 172
 OF THE 5TH DISTRICT, 5TH SECTION
 FAYETTE COUNTY, GEORGIA

ISSUED FOR CONSTRUCTION

NO.	REVISION REFERENCE	DATE
04	INTERNAL TRACK	10/15/2024



GSWCC CERT #78081
 SHEET TITLE
GA POWER EASEMENT EXHIBIT

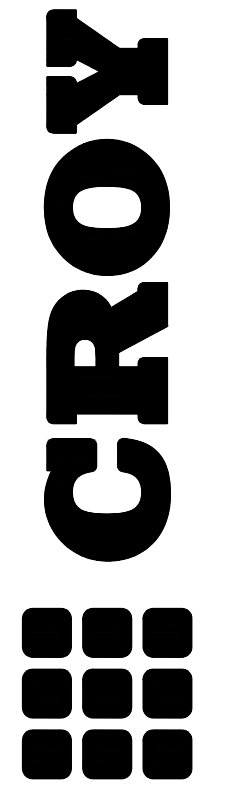
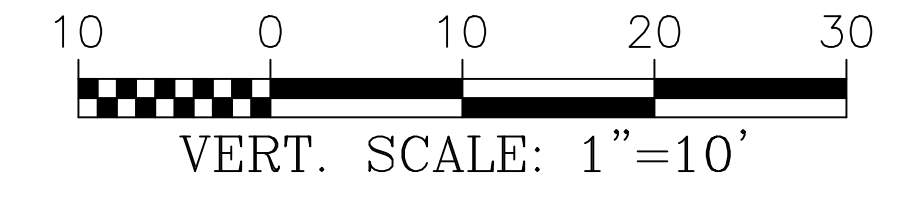
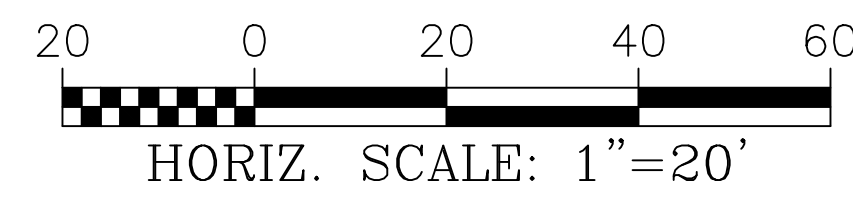
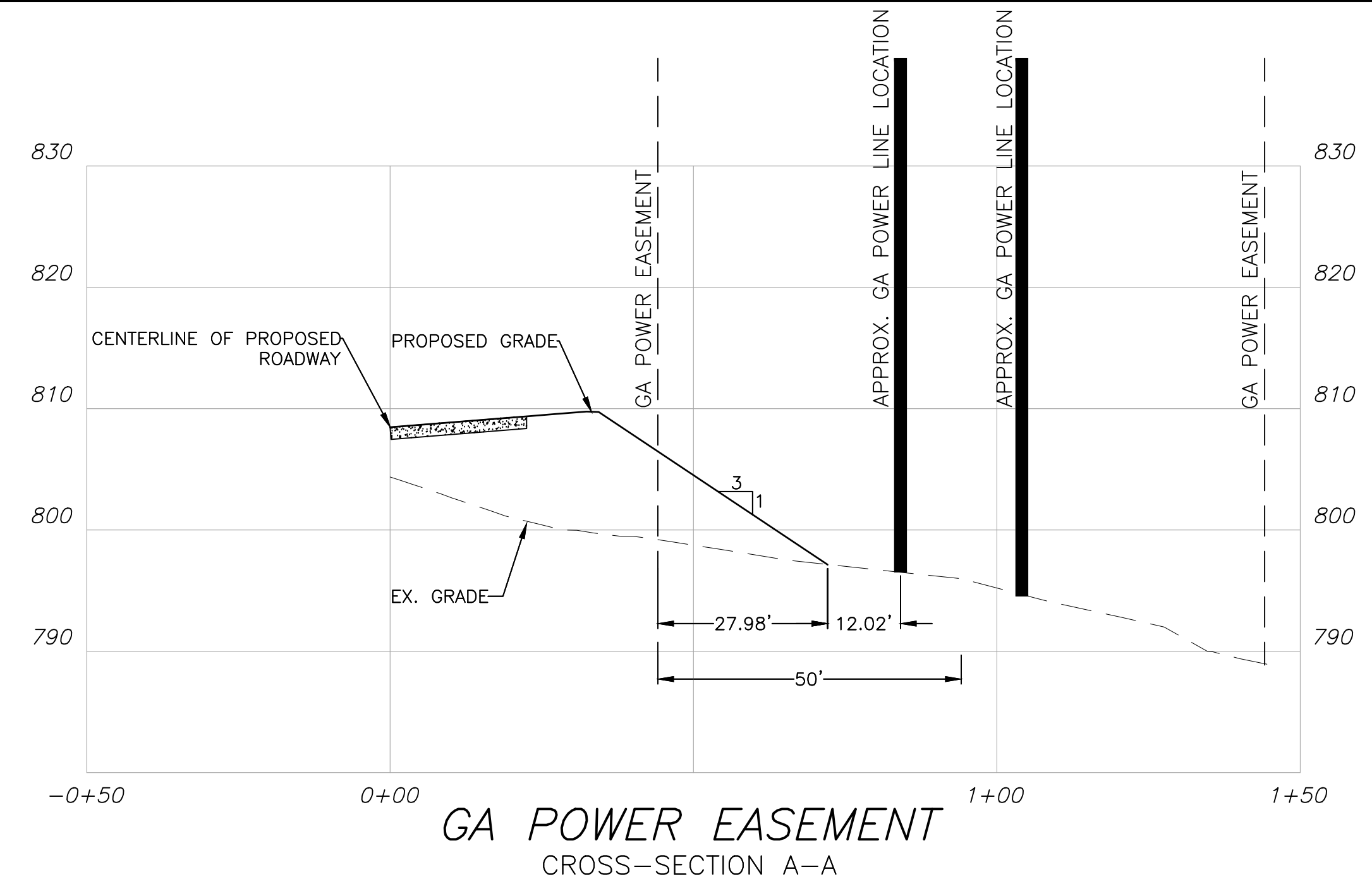
DRAWN BY ORG	CHECKED BY SMM
SCALE 1"=40'	ISSUE DATE 04/01/2025

PROJECT NUMBER
1866.033
 DRAWING NUMBER
GA-P
 SHEET 1 of 2

Drawing Location: P:\Marietta\1866 Fayette County\1866.033 Fayette County Sheriff Vehicle Tactical Training Track\Engineering\Design\1866.033_Design.dwg
 Plot Scale: 1"=40' Drawing Station: 353.9' Plot Style: Design.ctb. Plotted By: Chris Webb on 10/15/2024, 1:40 PM

GENERAL NOTES

1. BOUNDARY AND RIGHT-OF-WAY INFORMATION SHOWN HEREON IS DERIVED FROM INFORMATION PROVIDED BY FAYETTE COUNTY.
2. TOPOGRAPHIC INFORMATION SHOWN HEREON IS DERIVED FROM GIS INFORMATION PROVIDED BY FAYETTE.
3. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS LOCATED ON THE SITE AND COORDINATE ANY DISCREPANCIES WITH THE DESIGN PROFESSIONAL.



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FAYETTE COUNTY SHERIFF
VEHICLE TACTICAL TRAINING FACILITY
 LAND LOT(S) 172
 OF THE 5TH DISTRICT, 5TH SECTION
 FAYETTE COUNTY, GEORGIA

NO.	REVISION REFERENCE	DATE
04	INTERNAL TRACK	10/15/2024



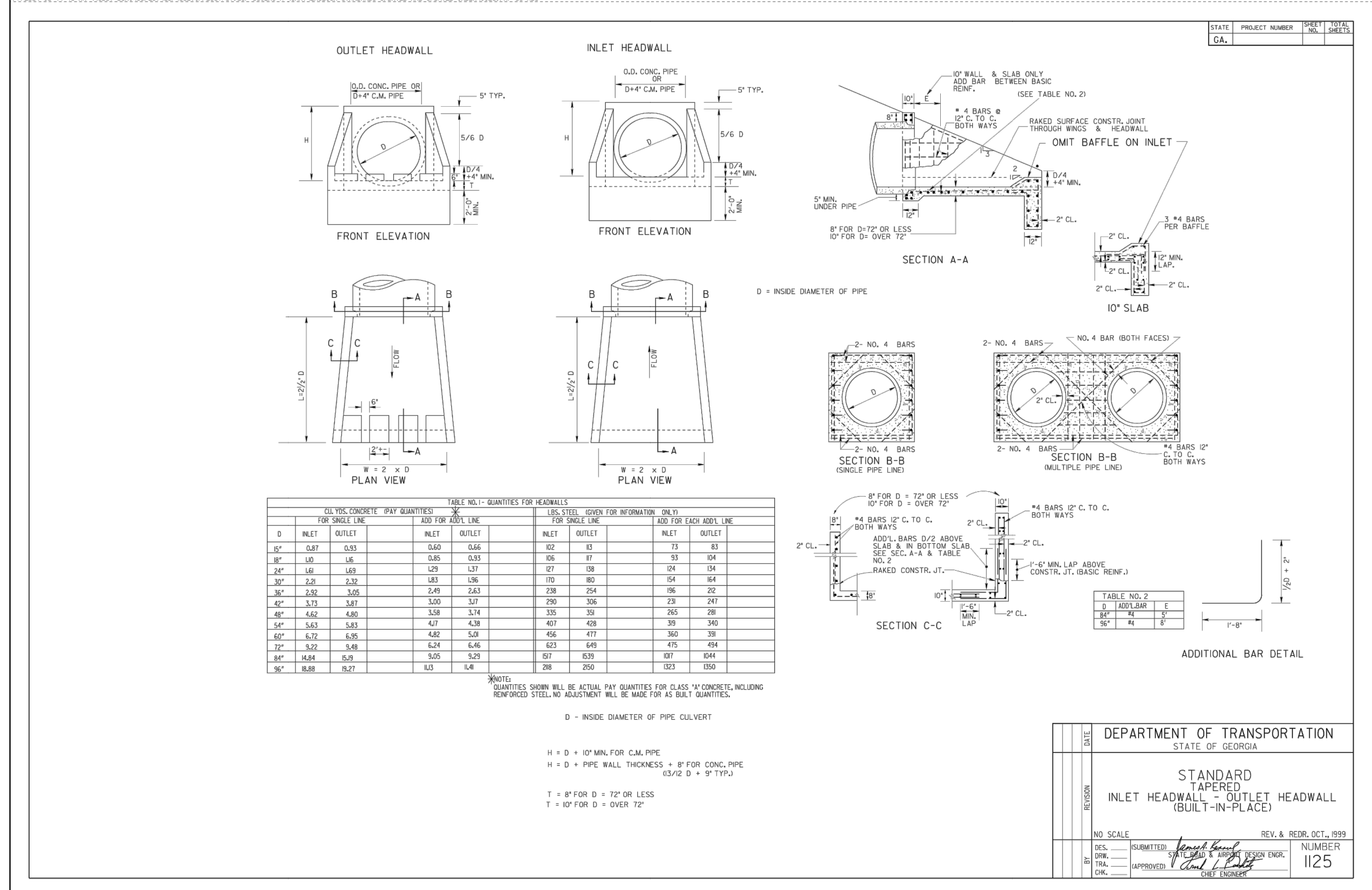
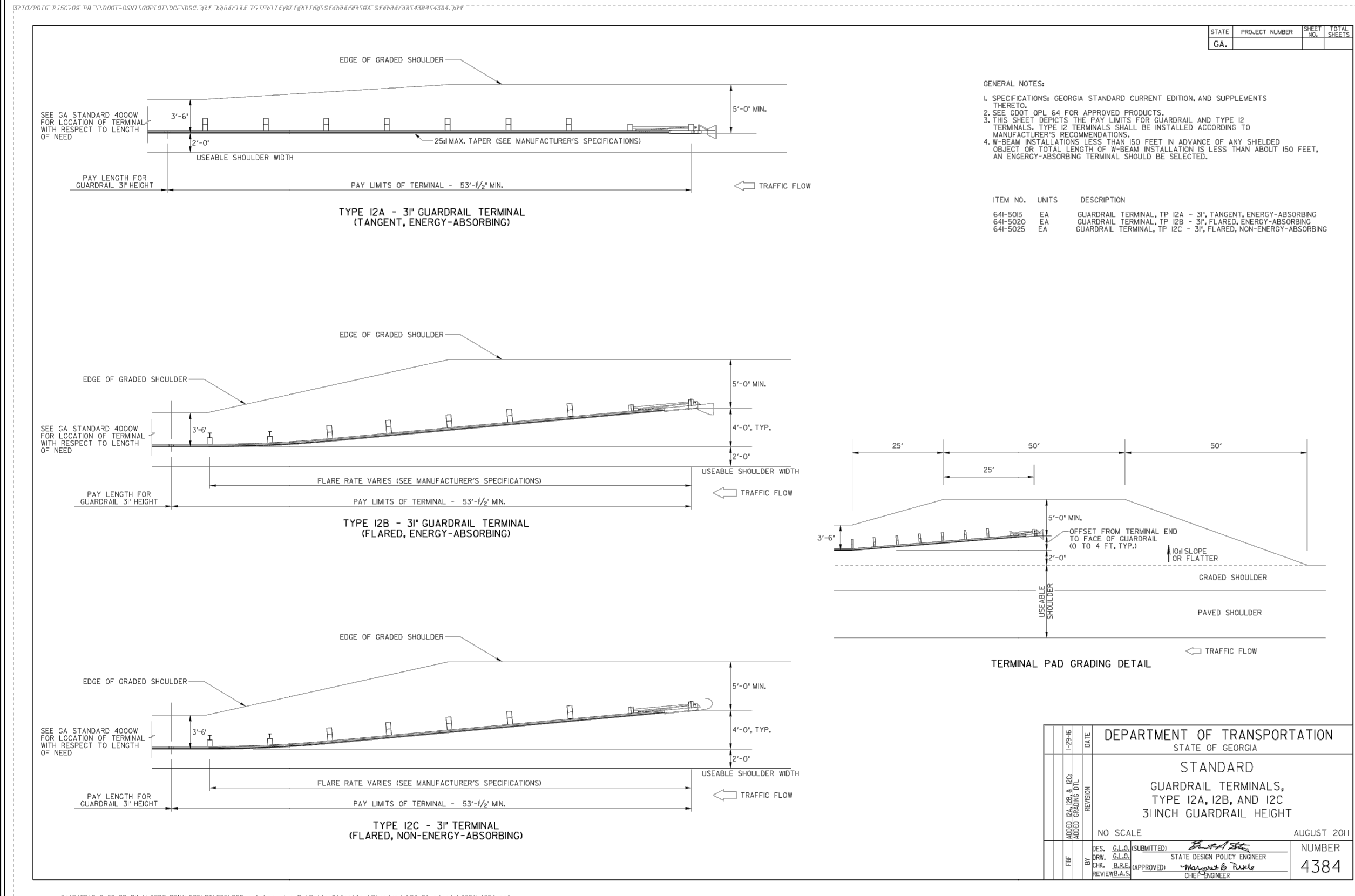
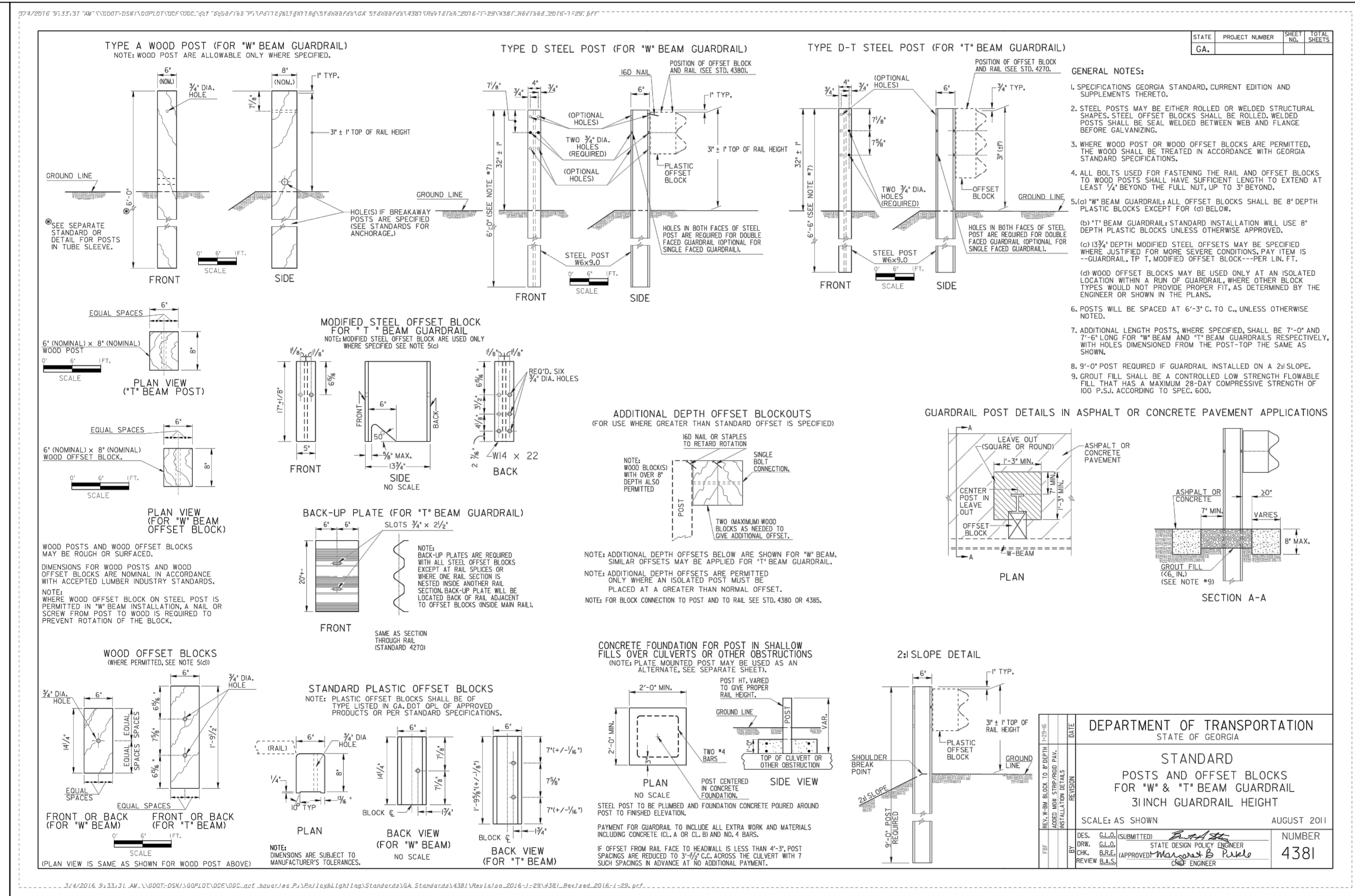
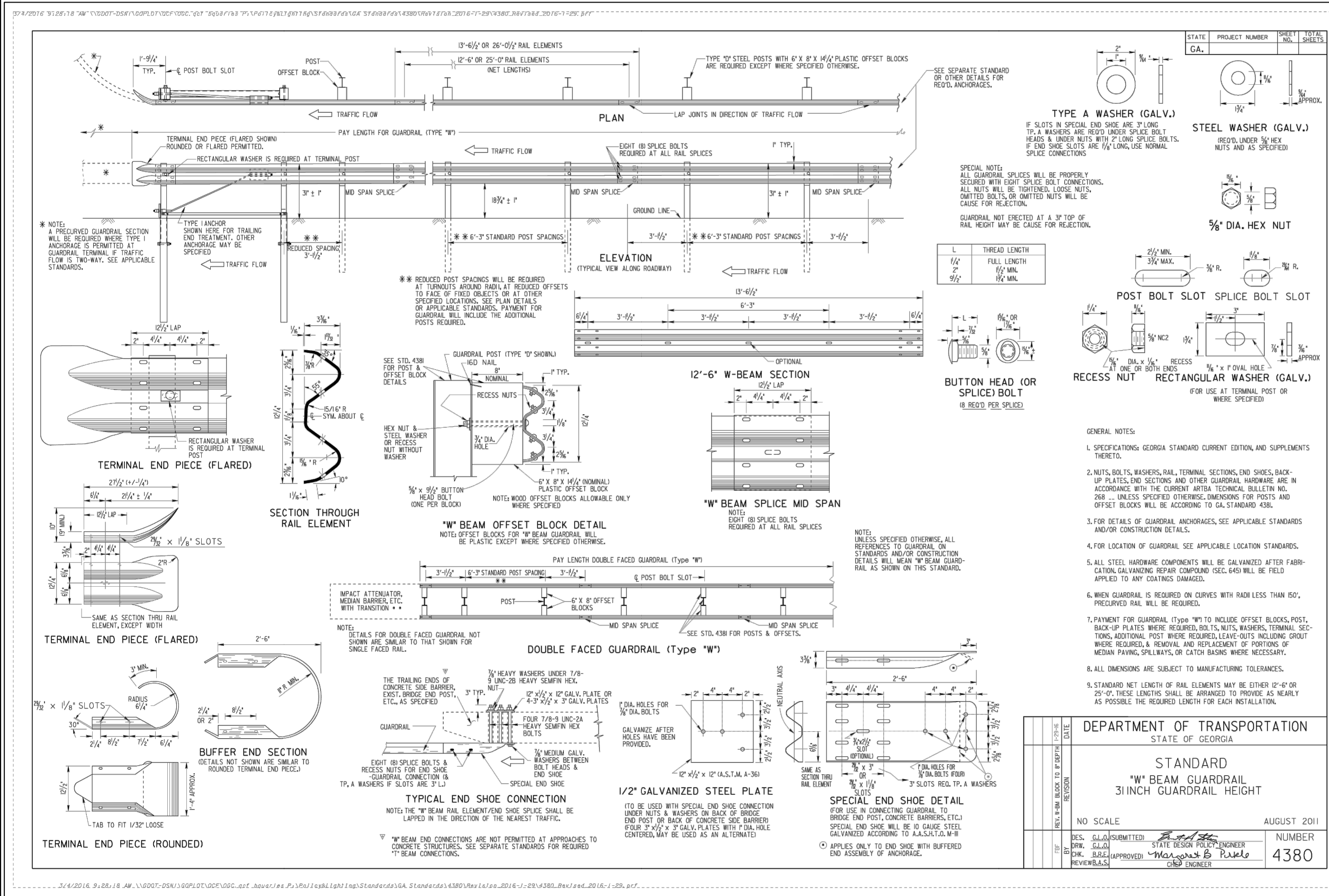
GSWCC CERT #78081
 SHEET TITLE
GA POWER EASEMENT EXHIBIT PROFILE

DRAWN BY ORG	CHECKED BY SMM
SCALE AS SHOWN	ISSUE DATE 04/01/2022

PROJECT NUMBER
1866.033
 DRAWING NUMBER

GA-P1
 SHEET 2 of 2

ISSUED FOR CONSTRUCTION



CROY
 200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
 MARIETTA, GA 30062
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FAYETTE COUNTY SHERIFF
VEHICLE TACTICAL TRAINING FACILITY
 LAND LOT(S) 172
 OF THE 5TH DISTRICT, 5TH SECTION
 FAYETTE COUNTY, GEORGIA

ISSUED FOR CONSTRUCTION

NO.	REVISION REFERENCE	DATE
04	INTERNAL TRACK	10/15/2022

SEAL

DEPARTMENT OF TRANSPORTATION
 STATE OF GEORGIA
 STANDARD
 INLET HEADWALL - OUTLET HEADWALL
 (BUILT-IN-PLACE)
 NO SCALE
 REV. & REPR. OCT. 1999
 DATE SUBMITTED: 10/15/2022
 STATE DESIGN NUMBER: 1125
 REVIEWER: [Signature]

GSWC CERT #78081

SHEET TITLE
 CONSTRUCTION
 DETAILS

DRAWN BY
 TBA

CHECKED BY
 SMM

SCALE
 N/A

ISSUE DATE
 04/01/2022

PROJECT NUMBER
 1866.033

DRAWING NUMBER
 C-500

SHEET 29 of 37

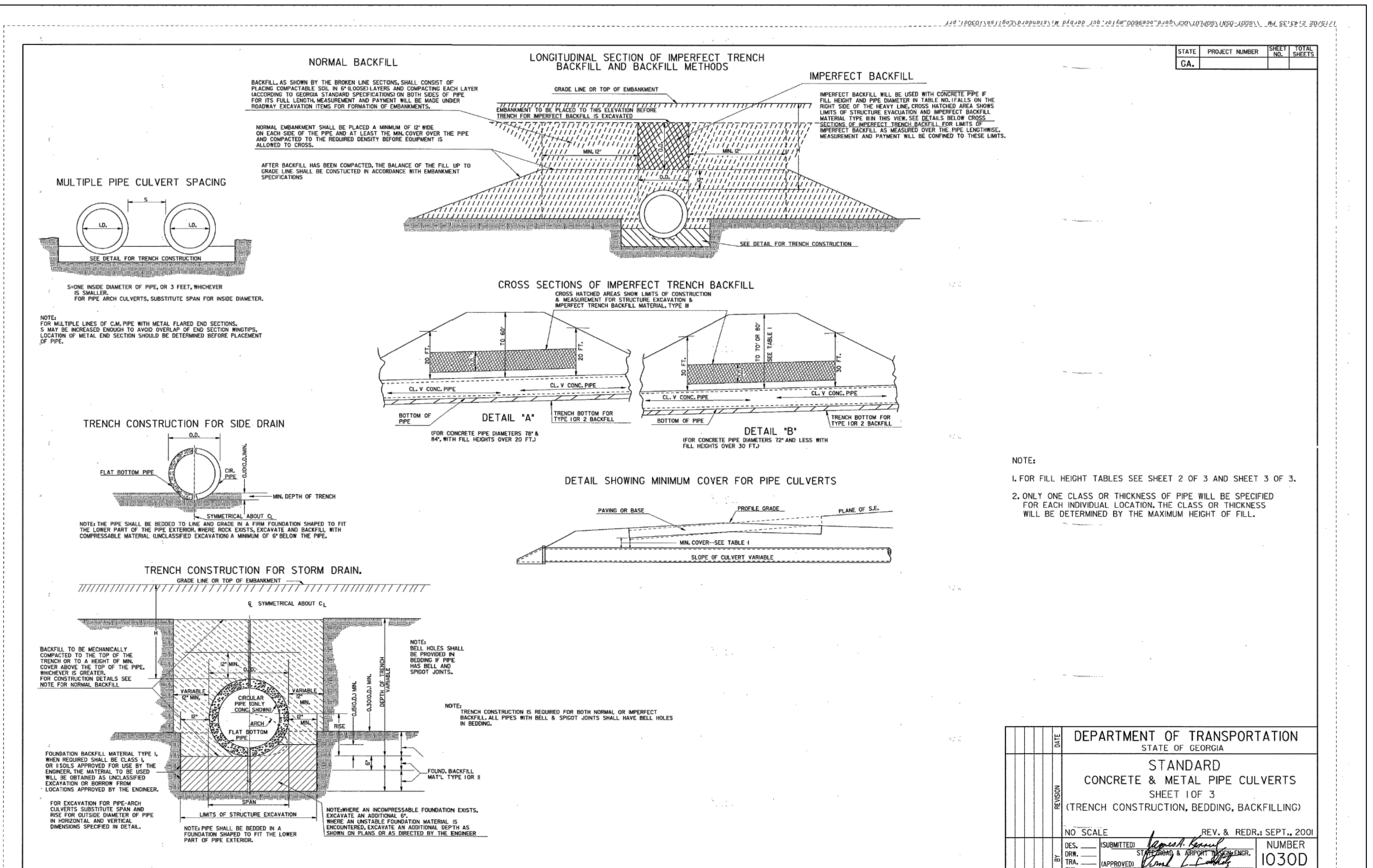
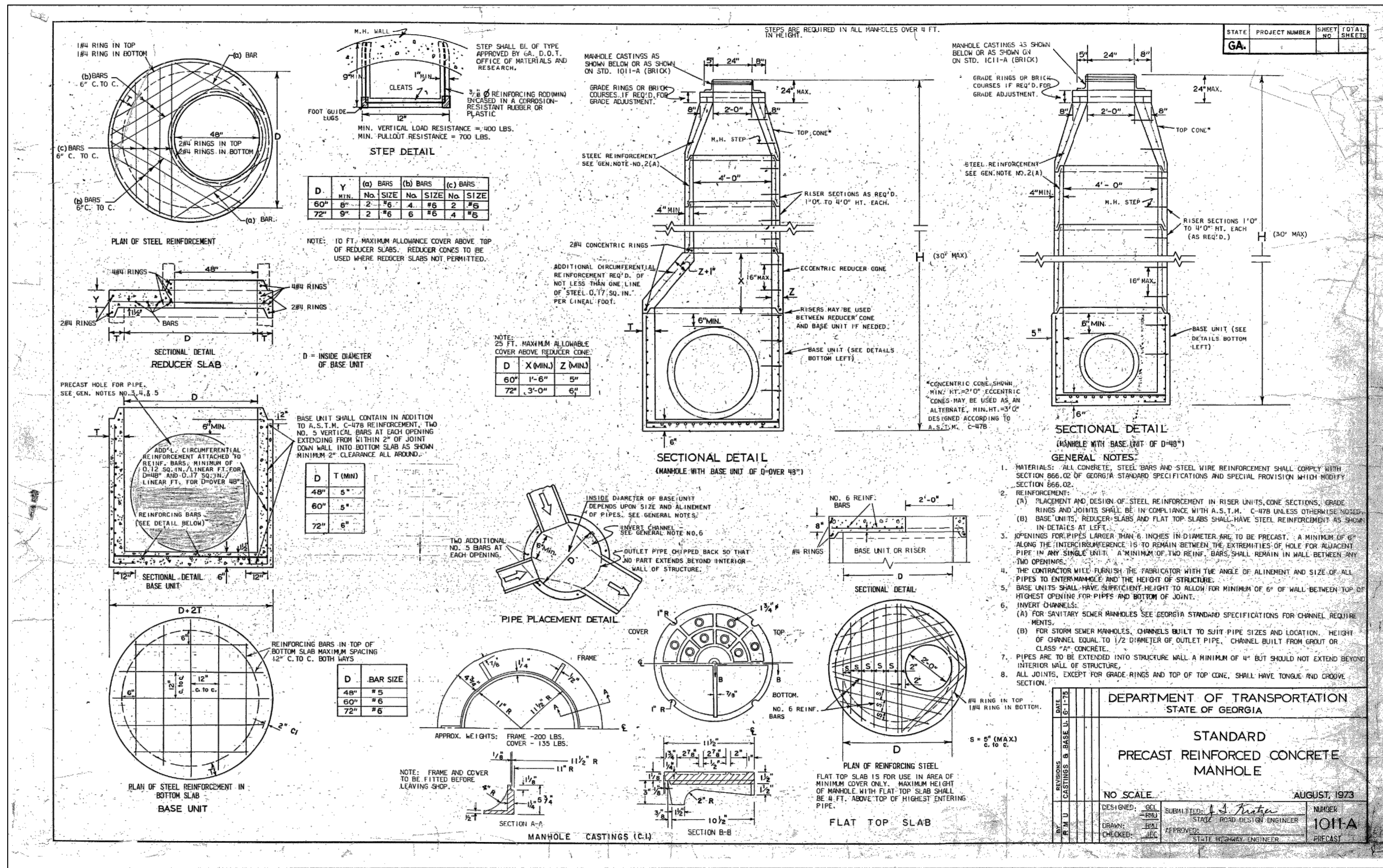


TABLE NO. 1, ROUND PIPE - CONCRETE - CORRUGATED STEEL - CORRUGATED ALUMINUM
MINIMUM CLASS OF CONCRETE OR MINIMUM THICKNESS OF STEEL AND ALUMINUM

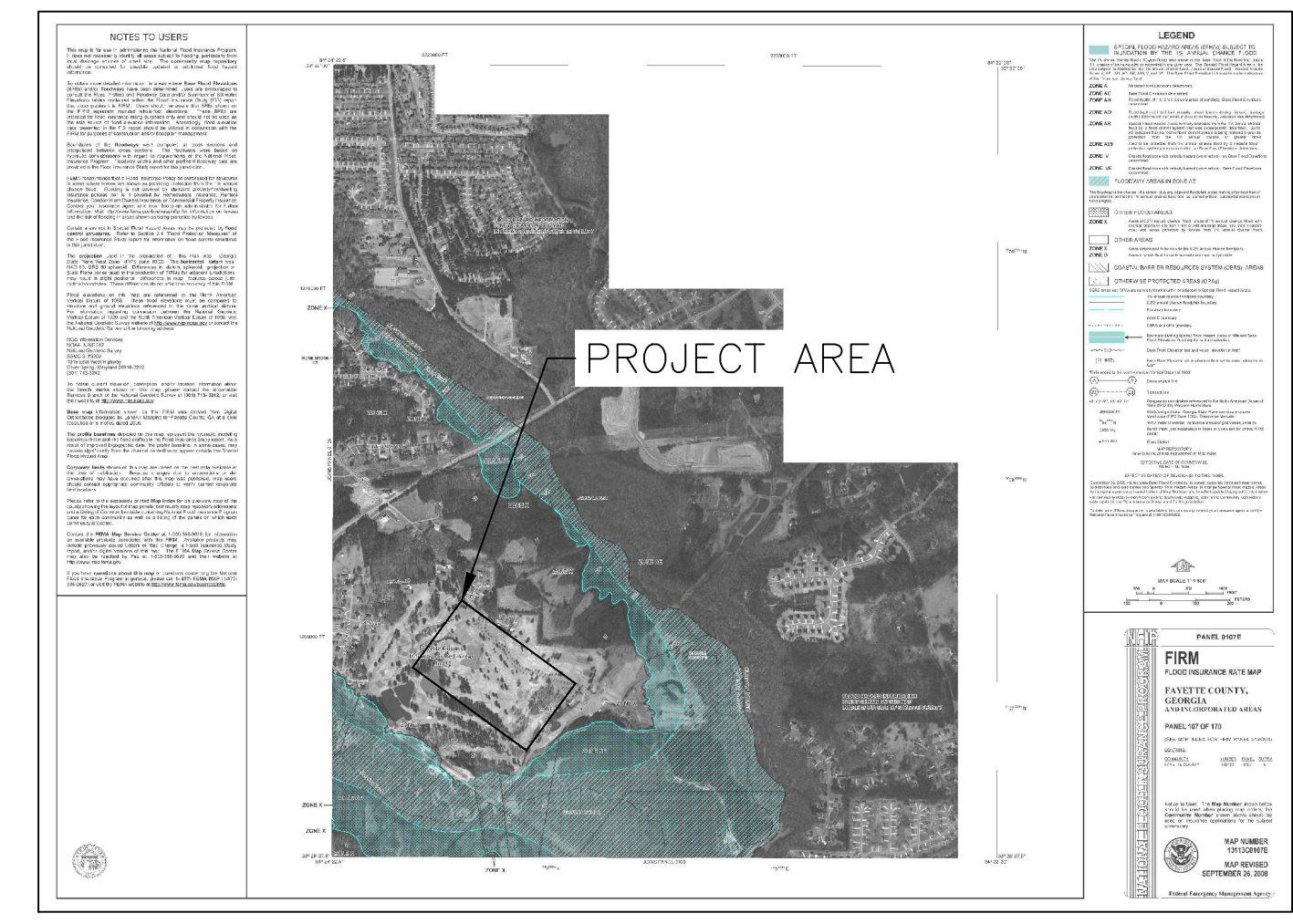
PIPE DIAMETER (INCHES)	TYPE	MINIMUM COVER (INCHES)	HEIGHT OF FILL IN FEET ABOVE TOP OF PIPE																PIPE DIAMETER (INCHES)
			1-10	10-15	15-20	20-25	25-30	30-35	35-40	40-50	50-60	60-70	70-80	80-90					
12	CONCRETE	12	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	12
12	STEEL	12	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	12
12	ALUM	12	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	12
15	CONCRETE	15	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	15
15	STEEL	15	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	15
15	ALUM	15	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	15
18	CONCRETE	18	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	18
18	STEEL	18	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	18
18	ALUM	18	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	18
24	CONCRETE	24	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	24
24	STEEL	24	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	24
24	ALUM	24	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	24
30	CONCRETE	30	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	30
30	STEEL	30	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	30
30	ALUM	30	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	30
36	CONCRETE	36	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	36
36	STEEL	36	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	36
36	ALUM	36	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	36
42	CONCRETE	42	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	42
42	STEEL	42	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	42
42	ALUM	42	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	42
48	CONCRETE	48	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	48
48	STEEL	48	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	48
48	ALUM	48	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	48
54	CONCRETE	54	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	54
54	STEEL	54	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	54
54	ALUM	54	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	54
60	CONCRETE	60	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	60
60	STEEL	60	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	60
60	ALUM	60	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	60
66	CONCRETE	66	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	66
66	STEEL	66	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	66
66	ALUM	66	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	66
72	CONCRETE	72	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	72
72	STEEL	72	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	72
72	ALUM	72	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	72
78	CONCRETE	78	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	78
78	STEEL	78	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	78
78	ALUM	78	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	78
84	CONCRETE	84	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	84
84	STEEL	84	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	84
84	ALUM	84	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	84
90	CONCRETE	90	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	90
90	STEEL	90	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	90
90	ALUM	90	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	90
96	CONCRETE	96	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	96
96	STEEL	96	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	96
96	ALUM	96	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	96
102	CONCRETE	102	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	102
102	STEEL	102	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	102
102	ALUM	102	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	102
108	CONCRETE	108	0.64	0.64															

EROSION, SEDIMENTATION, & POLLUTION CONTROL PLANS FOR CONSTRUCTION OF FAYETTE COUNTY SHERIFF VEHICLE TACTICAL TRAINING FACILITY

CITY OF FAYETTEVILLE, GEORGIA
CROY ENGINEERING PROJECT NO. 1866.033
MAY, 2022



LOCATION MAP
(NTS)



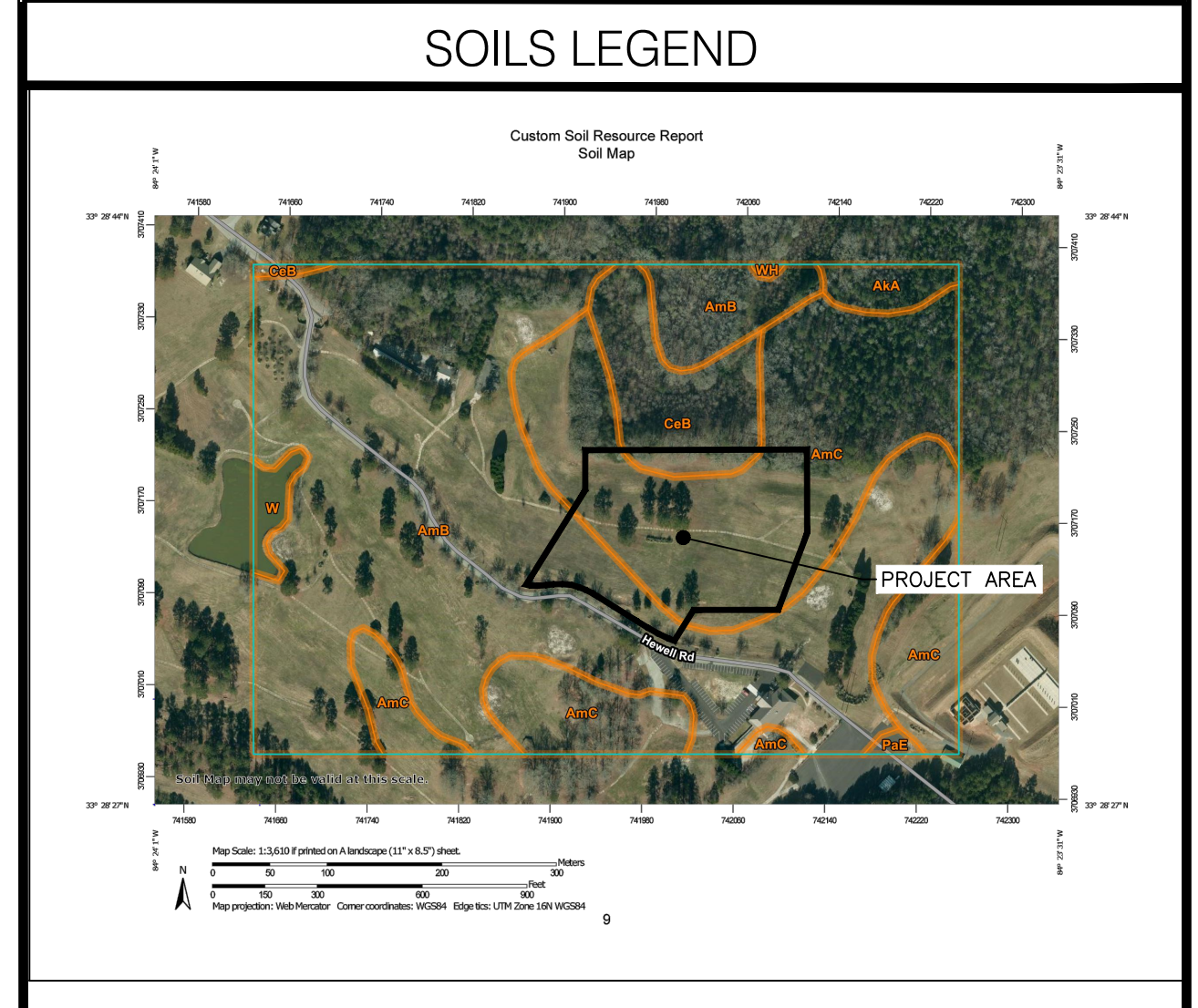
FEMA MAP
FEMA STATEMENT
A PORTION OF THIS PROPERTY MAY LIE WITHIN THE 100 YEAR FLOOD HAZARD AREA BASED ON THE FLOOD INSURANCE RATE MAP FOR THIS AREA. THE MAP NUMBER FOR THIS AREA IS 13113C0107E AND THE DATE OF SAID MAP IS SEPTEMBER 26, 2008.

APPENDIX 1
THE ES&PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPs FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO AN IMPAIRED STREAM SEGMENT AND FOR SITES WHICH GPS HAS APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME. The four items chosen must be appropriate for the site conditions.

Plan Page #	Included Y/N	Description
N/A	N	a. During construction activities, double the width of the 25-foot undisturbed vegetated buffer along all State waters requiring a buffer and the 50-foot undisturbed vegetated buffer along all State waters classified as "trout streams" requiring a buffer. During construction activities, EPD will not grant variances to any such buffers that are increased in width.
N/A	N	b. Increase all temporary sediment basins and retrofitted storm water management basins to provide sediment storage of at least 3000 cubic feet (134 cubic yards) per acre drained.
N/A	N	c. Use baffles in all temporary sediment basins and retrofitted storm water management basins to at least double the conventional flow path length to the outlet structure.
N/A	N	d. A large sign (minimum 4 feet x 8 feet) must be posted on site by the actual start date of construction. The sign must be visible from a public roadway. The sign must identify the following: (1) construction site, (2) the permittee(s), (3) the contact person(s) and telephone number(s), and (4) the permittee website where the Plan can be viewed must be provided on the submitted NOI. The sign must remain on site and the Plan must be available to the public at all times.
ER-200	Y	e. Use flocculants or coagulants and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days in accordance with Part III, D.1. of the current NPDES Permits.
N/A	N	f. Conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24-hour period, recognizing the exceptions specified in Part IV.D.6.d. of the current NPDES Permits.
N/A	N	g. Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defenses" as provided for in C.C.G.A. 12-7-4 (a)(1).
N/A	N	h. Reduce the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations). All calculations must be included on the Plan.
N/A	N	i. Limit the amount of disturbed area at any one time to no greater than 25 acres or 50% of the total planned site, whichever is less. All calculations must be included on the Plan.
N/A	N	j. Use "Dirt It" techniques available on the EPD website to model and manage construction storm water runoff (including sheet flow). All calculations must be included on the Plan.
N/A	N	k. Add appropriate organic soil amendments (e.g., compost) and conduct pre- and post-construction soil sampling to a depth of six (6) inches to document improved levels of soil carbon after final stabilization of the construction site.
ER-100-200	Y	l. Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever construction storm water (including sheet flow) may be discharged. Mulch filter berms cannot be placed in waterways or areas of concentrated flow.
N/A	N	m. Use appropriate erosion control slope stabilization instead of concrete in all construction storm water ditches and storm drainages designed for a 25-year, 24-hour rainfall event.
N/A	N	n. Use flocculants or coagulants under a passive dosing method (e.g., flocculant blocks) within construction storm water ditches and storm drainages that feed into temporary sediment basins and retrofitted management basins.
N/A	N	o. Install seed for a minimum 20-foot width (in lieu of seeding) after final grade has been achieved, along the site perimeter wherever storm water (including sheet flow) may be discharged.
N/A	N	p. Conduct soil tests to identify and to implement site-specific fertilizer needs.
ER-100-300	Y	q. Certified personnel for primary permittees shall conduct inspections at least twice every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(3)(a) - (c), secondary permittees, Part IV.D.4.b.(3)(a) - (c), and tertiary permittees Part IV.D.4.c.(3)(a) - (c).
N/A	N	r. Apply the appropriate compost blankets (minimum depth 1 to 1.5 inches) to protect soil structures until vegetation is established during the final stabilization phase of the construction activity.
N/A	N	s. Use alternative BMPs whose performance has been documented to be superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). If using this item please refer to the Alternative BMP guidance document found at www.gaswc.org .
N/A	N	t. Limit the total planned site disturbance to less than 15% impervious surfaces (excluding any state mandated buffer areas from such calculations). All calculations must be included in the Plan.
N/A	N	u. Conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase of the project by the design professional who prepared the Plan in accordance with Part IV.A.5 of the permit.
N/A	N	v. The Plan must include a statement that the primary permittee must retain the design professional who prepared the Plan to conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase.
ER-300	Y	v. Install Post Construction BMPs (e.g., runoff reduction BMPs) which remove 80% TSS as outlined in the Georgia Stormwater Management Manual known as the Blue Book or an equivalent or more stringent design manual.

Effective January 1, 2024

* This requirement is different for infrastructure projects:
Certified personnel for primary permittees shall conduct inspections at least once every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.(3)(a) - (c) of the permit.



Map Unit Symbol	Map Unit Name	Acres in ACI	Percent of ACI
AKA	Atlatveta sandy loam, 0 to 3 percent slopes	1.0	1.6%
AmB	Appling sandy loam, 2 to 6 percent slopes	37.4	57.4%
AmC	Appling sandy loam, 6 to 10 percent slopes	21.6	33.1%
CeB	Cecil sandy loam, 2 to 6 percent slopes	4.2	6.5%
PaE	Paocollet sandy loam, 10 to 25 percent slopes	0.2	0.3%
W	Water	0.7	1.1%
WH	Wehadkee soils, 0 to 2 percent slopes, frequently flooded	0.1	0.1%
Totals for Area of Interest		65.1	100.0%



24 HOUR CONTACT:
BARRY BABB
TEL: (770)- 706-4800

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

SWDC: FAYETTE
Project Name: FAYETTE COUNTY SHERIFF VEHICLE TACTICAL TRAINING TRACK Address: 300 HOWELL RD
Local Issuing Authority: FAYETTEVILLE, GEORGIA Date on Plan: _____
Name & Email of person filling out checklist: SCOTT MCNALLY - SMCNALLY@CROYENG.COM

TO BE SHOWN ON ES&PC PLAN

Page #	Y/N	Description
ER-000	Y	1. The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
ER-000	Y	2. Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)
N/A	N/A	3. Limit of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD 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 and the GAEPD approval letter. * (A copy of the written approval by GAEPD must be attached to the plan or the Plan will not be reviewed)
ALL 14	Y	4. The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution control.
ER-001	Y	5. Provide the name, address, email address, and phone number of primary permittee.
ER-100-300	Y	6. Note total and disturbed acreages of the project or phase under construction.
ER-200-200	Y	7. Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
ER-100-300	Y	8. Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
ER-001	Y	9. Description of the nature of construction activity and existing site conditions.
ER-000	Y	10. Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
ER-001	Y	11. Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
ER-001	Y	12. Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 19 of the permit.
ER-001	Y	13. Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit. *
ER-001	Y	14. Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." in accordance with Part IV.A.5 page 25 of the permit. *
ER-001	Y	15. Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffer as measured from the point of arested vegetation or within 25 feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variance and permit." *
ER-001	Y	16. Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
ER-001	Y	17. Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
ER-001	Y	18. Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
ER-001	Y	19. Clearly note statement that "The degree of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities." *
ER-001	Y	20. Clearly note statement that "Erosion control measures will be maintained at all times. If the 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." *
ER-001	Y	21. Clearly note the statement that "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding." *
N/A	N/A	22. Any construction activity which discharges storm water into an Impaired Stream Segment or within 1/4 mile upstream of and into the same watershed as, any portion of a Book Impaired Stream Segment must comply with Part III, C. of the permit. Include 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. *
N/A	N/A	23. If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
ER-001	Y	24. BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the dump truck construction site is prohibited.
ER-001	Y	25. Provide BMPs for the remediation of petroleum spills and leaks.
ER-001	Y	26. Description of the measures that will be installed during the construction process to control pollutants in storm water that occur after construction operations have been completed. *
ER-001	Y	27. Description of practices to provide cover for building materials and building products on site. *
ER-001	Y	28. Description of the practices that will be used to reduce the pollutants in storm water discharges. *
ER-001	Y	29. Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
ER-001	Y	30. Provide complete requirements of inspections and record keeping by the primary permittee. *
ER-001	Y	31. Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
ER-001	Y	32. Provide complete details for Retention of Records as per Part IV.F. of the permit. *
ER-001	Y	33. Description of analytical methods to be used to collect and analyze the samples from each location. *
ER-001	Y	34. Appendix B rationale for NTU values at all outlet sampling points where applicable. *
ER-100-300	Y	35. Define all sampling locations, perennial and intermittent streams and other water bodies into which stormwater is discharged. *
ER-100-300	Y	36. A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMP's into a single phase. *
ER-100-300	Y	37. Graphic scale and North arrow.
ER-100-300	Y	38. Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: Map Scale Ground Slope Contour Interval, ft. 1 inch = 1000' or larger scale Flatter 2% 0.5 or 1 Rolling 2 - 8% 1 or 2 Steeper 8% + 2.5 or 10
ER-001	Y	39. 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 GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswc.org .
ER-001	Y	40. Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
ER-100-300	Y	41. Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
ER-200-200	Y	42. Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
ER-100-300	Y	43. Delineation and acreage of contributing drainage basins on the project site.
HYDRO	HYDRO	44. Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
HYDRO	HYDRO	45. An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
ER-200	Y	46. Storm drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/delineate all storm water discharge points.
ER-001	Y	47. Soil series for the project site and their delineation.
ER-200-200	Y	48. The limit of disturbance for each phase of construction.
ER-200-200	Y	49. Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, reworked detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until the stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not available must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not available must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that will draw water from the surface, unless infeasible. If outlet structures that draw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
ER-200-300	Y	50. Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
ER-001	Y	51. Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
ER-001	Y	52. Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seedling, fertilizer, lime and mulching rates. Vegetative plans shall be site specific for appropriate time of the year that planting will take place and for the appropriate geographic region of Georgia. * If using this checklist for a project that is less than 1 acre and not part of a common development, drawings 200 feet of a perennial stream, the checklist items would be N/A.

Effective January 1, 2024

CROY ENGINEERING
200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
MARIETTA, GA 30062
PHONE: (770) 971-5407 FAX: (770) 971-0820

**FAYETTE COUNTY SHERIFF
VEHICLE TACTICAL TRAINING FACILITY**

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

ISSUED FOR CONSTRUCTION

NO.	REVISION REFERENCE	DATE
04	INTERNAL TRACK	10/15/2024
3	EROSION APPENDIX 1	09/26/2024
2	ACCESS ROAD REDESIGN	08/19/2022
1	LDP COMMENTS	07/19/2022

NO. _____ REVISION REFERENCE _____ DATE _____

SEAL

GSWCC CERT #78081

SHEET TITLE
EROSION CONTROL COVER SHEET

DRAWN BY ORG	CHECKED BY SMM
SCALE NONE	ISSUE DATE 04/01/2022

PROJECT NUMBER
1866.033

DRAWING NUMBER
ER-000

SHEET 31 of 37

Plot Scale: 1" = 400' Drawing Rotation: #007 Plot Style: Dgn.ctb, Plotted By: Chris Webb on 10/15/2024, 1:41 PM

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 EPA DISTRICT OFFICE...

PROJECT NARRATIVE

THE NATURE OF CONSTRUCTION ACTIVITY IS THE CONSTRUCTION OF A TACTICAL TRAINING TRACK, PIT MAINTENANCE AREA AND VIEWING TOWER.

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

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

7 CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MESELF OR BY AN AUTHORIZED AGENT, UNDER MY SUPERVISION.

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...

14. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PCP PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION...

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&PCP PLAN, WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S 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 SECTION, 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 C. OF THIS PERMIT.

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 PRECAUTION 107 - LEAK CONTAINMENT AND RESPONSIBILITY TO THE PUBLIC...

SILT FENCE INSTALLATIONS WITH J-HOOKS AND SPURS

SILT FENCE SHOULD NEVER RUN CONTINUOUS WITHOUT J-HOOKS OR SPURS. 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 SPURS.

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.
3. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SODIUM SULPHATE AND METAL WASTE CONTAINERS.

POST-CONSTRUCTION BMPs

ALL PERMITTEE, POST-CONSTRUCTION BMPs ARE SHOWN IN THE CONSTRUCTION PLANS AND IN THE ES&PCP PLAN. THE POST-CONSTRUCTION BMPs FOR THIS PROJECT CONSIST OF TEMPORARY SEEDING, PERMANENT MULCHING, DOUBLE ROW OF SILT FENCE WITH STORM IN BETWEEN, STORM CHECK DAMS, ROCK FILTER DRUMS, DIVERSION, COMPOST FILTER SOCKS, INLET SEDIMENT TRAP, TEMPORARY SEDIMENT TRAP, SLOPE STABILIZATION AND STORM DRAIN OUTLET PROTECTION.

OTHER CONTROLS

THE PERMITTEE SHALL BE IN COMPLIANCE WITH RECEIVING WATER QUALITY, 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 PRESENT 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 SIMILARLY EFFECTIVE MEANS TO DESIGN TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THESE AREAS.

PRODUCT SPECIFIC PRACTICES

- 1. CONCRETE PAVEMENT - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES OILS, GREASES, ANTIFREEZE AND MACHINERY OILS.
2. REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT, EQUIPMENT MAINTENANCE AREAS WILL BE KEPT CLEAR OF OILS, GREASE, ANTIFREEZE, AND OTHER HAZARDOUS SUBSTANCES.
3. FERTILIZERS/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 GEORGIA MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.

WASTE DISPOSAL

LOCATE WASTE DISPOSAL AREAS AWAY FROM STREETS, OUTLETS, WATERCOURSES AND STORM DRAINS. WASTE COLLECTION BINS, SUCH AS DUMPSTERS, ARE OFTEN BEST LOCATED NEAR CONSTRUCTION SITE ENTRANCES TO MINIMIZE TRAFFIC ON DISTURBED SOILS.

THIS ES&PCP 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 DAMS, RETENTION BARRIER WITH MULCH, INLET SEDIMENT TRAPS WITH EXCAVATED INLET, INLET SEDIMENT TRAP, TEMPORARY SEDIMENT TRAP AND STORM DRAIN OUTLET PROTECTION.

SEQUENCE OF LAND DISTURBANCE ACTIVITIES

STATE MAY, 2022 STOP MAY, 2025

ANTICIPATED CONSTRUCTION ACTIVITY SCHEDULE

Table with columns for CONSTRUCTION ACTIVITY, MAY, JUNE, JULY, AUGUST, SEPTEMBER, OCTOBER, NOVEMBER, DECEMBER. Rows include: INSTALL CONSTRUCTION EXIT, INITIAL SEDIMENT CONTROL, MAINTAIN EROSION CONTROL DEVICES, CLEANING AND GRADING, INSTALL & MAINTAIN TEMPORARY VEGETATION & MULCH, FIRM LANDSCAPING & STABILIZE SOILS, CLEANUP SITE & REMOVE TEMPORARY BMP'S.

ANTICIPATED CONSTRUCTION ACTIVITY SCHEDULE (REVISION DATE 08/22/2024)

Table with columns for CONSTRUCTION ACTIVITY, MAY-JUNE, JULY-AUG, SEPT-OCT, NOV-DEC, DEC-JAN, FEB-MAR, APRIL, MAY. Rows include: INSTALL CONSTRUCTION EXIT, INITIAL SEDIMENT CONTROL, MAINTAIN EROSION CONTROL DEVICES, CLEANING AND GRADING, INSTALL & MAINTAIN TEMPORARY VEGETATION & MULCH, FIRM LANDSCAPING & STABILIZE SOILS, CLEANUP SITE & REMOVE TEMPORARY BMP'S.

INSPECTIONS

- 1. 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 EQUIPMENT; (b) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE WASTEWATER IS STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM EQUIPMENT; (c) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE WASTEWATER IS STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM EQUIPMENT...

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 TO 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.

- 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 EVERY 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.

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

REPORTING

- 1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPA AT THE ADDRESS SHOWN IN PART I.C. BY THE FIFTEENTH DAY OF THE FOLLOWING THE REPORTING PERIOD.
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 MEASUREMENTS;
C. THE DATE(S) 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.

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 UPON COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT SUBMITTED IN ACCORDANCE WITH PART VI.
A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPA;
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 IV.A.4.(2) 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. ONLY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.1.(2) OF THIS PERMIT.

SAMPLING TYPE

- 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, CLEAR 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. HOWEVER, SAMPLING SHALL BE UTILIZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER THE SAMPLING PERMIT IS ISSUED.
5. FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR OCCURRENCE, UNLESS FLUSH THROUGH AUTOMATIC 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.

SAMPLING POINTS

- 1. FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). 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 WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:
A. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM 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 UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) 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 WATER(S) 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 OUTLET CHANNEL(S).
D. CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(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 FRESH FROM FLOATING DEBRIS.
G. PERMITTEES DO NOT HAVE TO SAMPLE SHEETWORK THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT, FOR PURPOSES OF THIS SECTION. STABILIZED SOILS, WEEDS, OR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL AREA SHALL BE KEPT UNPAVED AND BEADY TO RECEIVE WATER 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 EPA. SUCH REPORTS SHALL BE READILY AVAILABLE BY THE END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF 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.

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, CLEAR 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. AUTOMATIC SAMPLING - GRAB SAMPLES WILL BE TAKEN AT THE APPROPRIATE TIMES AS SPECIFIED IN PART IV.D.6.D. OF THE PERMIT. AUTOMATIC SAMPLING CAN BE ACCOMPLISHED BY USING A SAMPLING DEVICE SIMILAR TO THE 1500 MODEL 3700 AUTOMATIC SAMPLER. 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.

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 OCCUR AT THE DESIGNATED REPRESENTATIVE RECEIVING WATER AT THE DOWNSTREAM LOCATION FIRST. THE SAMPLE WILL BE TAKEN AS FAR DOWNSTREAM (WITHIN THE PROJECT LIMITS ON SITE) 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, 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, CLEAR GLASS OR PLASTIC JAR/BOTTLE, LABELED WITH PROJECT NUMBER AND LOCATION WILL BE USED TO COLLECT THE SAMPLES FROM ACROSS THE RECEIVING WATERS. 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 OBTAINED. THE SAMPLE WILL BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PROJECT (WITHIN THE PROJECT LIMITS ON SITE). 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, CLEAR 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 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.

SAMPLING SITE DATA FOR OUTFALLS

Table with columns: SAMPLING OUTFALL ID, TOTAL SITE AREA (AC), DRAINAGE AREA (AC), DRAINAGE AREA (SQ MI), STREAM TYPE (WARM/COLD), NTU LIMIT. Rows include: A, B, C.

* SEE "APPENDIX B" RATIONALE FOR OUTFALL SAMPLING POINTS IN NPDES PERMIT NO. GA0100001.

- 35. USE PLAN SHEETS FOR DELINEATION OF ALL SAMPLING LOCATIONS, PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES INTO WHICH STORM WATER IS DISCHARGED.

- 36. A DESCRIPTION OF APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE

- 37. INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs - DOUBLE ROW SILT FENCE WITH MULCH IN BETWEEN, MULCHING AND TEMPORARY SEEDING.

- 38. INTERMEDIATE GRADING AND DRAINAGE BMPs - STONE CHECK DAMS, DIVERSIONS, ROCK FILTER DAMS, DOUBLE ROW OF SILT FENCE WITH MULCH IN BETWEEN, COMPOST FILTER SOCK, INLET SEDIMENT TRAP, TEMPORARY SEDIMENT TRAP, STORM DRAIN OUTLET PROTECTION, PERMANENT AND TEMPORARY SEEDING AND SLOPE STABILIZATION.

- 39. FINAL BMPs - STORM DRAIN OUTLET PROTECTION, SLOPE STABILIZATION AND PERMANENT SEEDING

- 40. THE GRAPHIC SCALE AND NORTH ARROW ARE SHOWN ON ALL PLAN SHEETS.

- 41. EXISTING AND PROPOSED CONTOUR LINES ARE DRAWN ON THE PLAN SHEETS.

- 42. 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 DOCUMENT FOUND AT www.gswcc.org.

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

- 44. USE PLAN SHEETS FOR DELINEATION OF THE APPLICABLE 25-FOOT OR 50-FOOT UNDISTURBED BUFFERS ADJACENT TO STATE WATERS AND ANY ADDITIONAL BUFFERS REQUIRED BY THE LOCAL ISSUING AUTHORITY. CLEARLY NOTE AND DELINEATE ALL AREAS OF IMPACT.

- 45. PRE- AND POST-DRAINING MAPS ARE INCLUDED IN THE HYDROLOGICAL STUDY.

- 46. SEE ST CHART ON PLAN SHEETS FOR STORM DRAIN PIPE VELOCITIES.

- 47. USE PLAN SHEETS FOR DELINEATION AND ACREAGE OF CONTRIBUTING DRAINAGE BASINS ON THE PROJECT SITE.

- 48. PRE- AND POST-DRAINING MAPS ARE INCLUDED IN THE HYDROLOGICAL STUDY.

- 49. PRE-CONSTRUCTION SITE SCS CURVE NUMBER = .61, AND THE POST-CONSTRUCTION SITE SCS CURVE NUMBER = .63.

- 50. SEE ST CHART ON PLAN SHEETS FOR STORM DRAIN PIPE VELOCITIES.

- 51. SOIL SERIES INFORMATION FOR A SUMMARY OF THE SOILS THAT ARE EXPECTED TO BE FOUND ON THE PROJECT SITE BASED ON NRCS SOILS MAPS: SEE SHEET ER-000 FOR SOIL SERIES DELINEATION AND THE TABLE BELOW FOR SOIL DESCRIPTIONS.

SOILS SERIES TABLE

Table with columns: SOIL NAME, AKA, PERCENT SLOPES. Rows include: ALTAVISTA SANDY LOAM, APPLING SANDY LOAM, APPLING SANDY LOAM, CECIL SANDY LOAM, PACOLET SANDY LOAM, WATER, WEHADKEE SOILS.

LIMITS OF DISTURBANCE

- 1. INITIAL PHASE: 41.69 ACRES

- 2. INTERMEDIATE PHASE: 41.69 ACRES

- 3. FINAL PHASE: 0.00 ACRES

- 49. PROVIDE A MINIMUM OF 67 CUBIC YARDS OF SEDIMENT STORAGE PER ACRE DRAINED USING A TEMPORARY SEDIMENT BASIN, REVERTED/DETENTION POND, AND/OR EXCAVATED INLET SEDIMENT TRAPS FOR EACH COMBINED DRAINAGE LOCATION. SEDIMENT STORAGE SHALL BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBANCE ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHIEVED.

- 50. CALCULATIONS ARE PROVIDED ON THE PLAN SHEETS.

- 51. LOCATION OF BEST MANAGEMENT PRACTICES THAT ARE CONSISTENT WITH AND NO LESS STRINGENT THAN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. USE UNIFORM CODING SYMBOLS FROM THE MANUAL, CHAPTER 6, WITH LEGEND.

- 52. USE SHEET ER-200-400

- 53. PROVIDE DETAILED DRAWINGS FOR ALL STRUCTURAL PRACTICES. SPECIFICATIONS MUST, AT A MINIMUM, MEET THE GUIDELINES SET FORTH IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.

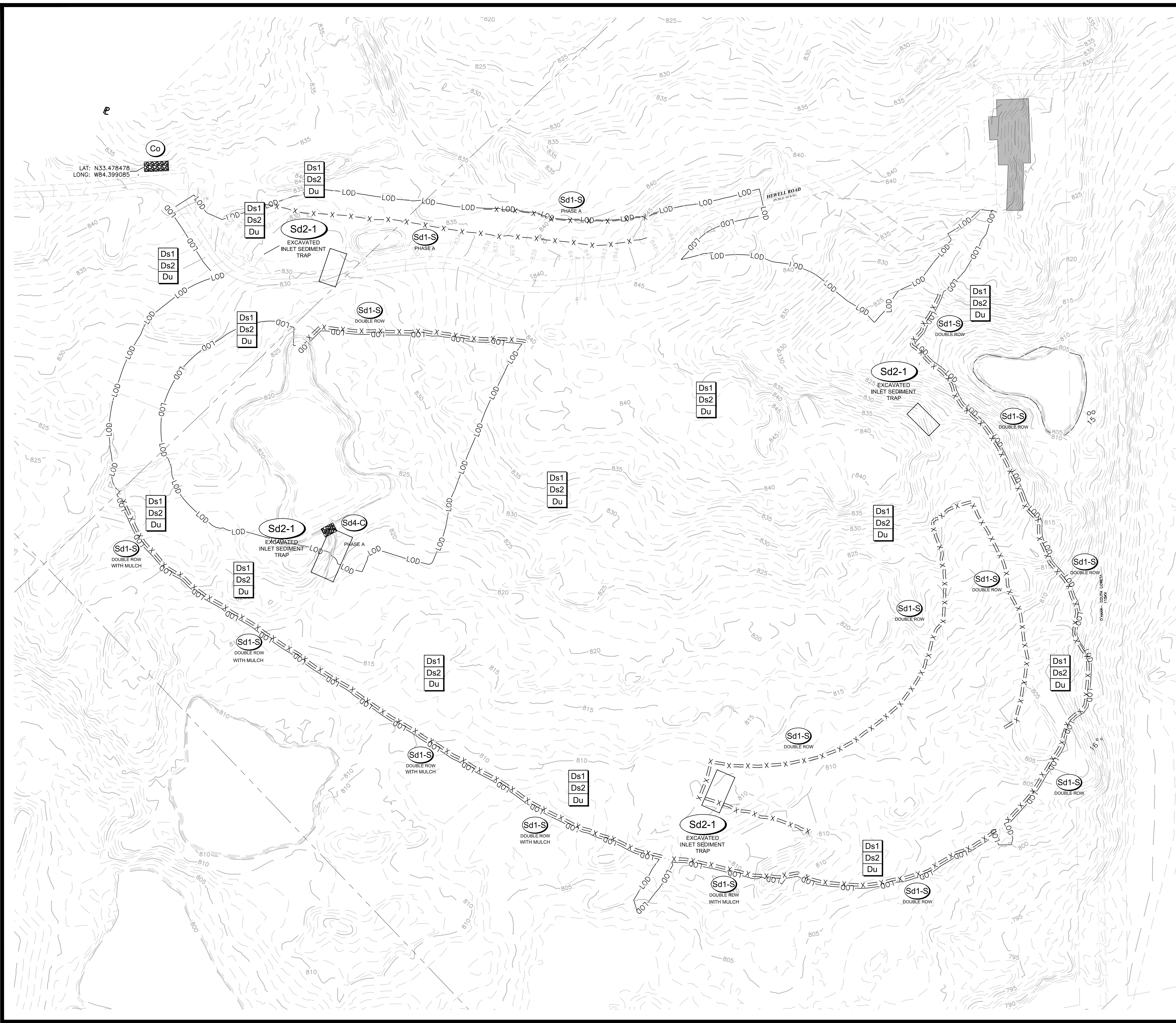
- 54. USE SHEET ER-500-501

- 55. PROVIDE VEGETATIVE PLAN, NOTING ALL TEMPORARY AND PERMANENT VEGETATIVE PRACTICES, INCLUDING SPECIES, PLANTING DATES AND SEEDING, FERTILIZER, MULCH AND MULCHING RATES, VEGETATIVE PLAN SHALL BE SITE SPECIFIC FOR APPROPRIATE TIME OF THE YEAR THAT SEEDING WILL TAKE PLACE AND FOR THE APPROPRIATE ECOLOGICAL REGION OF GEORGIA.

CRROY logo and contact information: 200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413, MARIETTA, GA 30067. PHONE: (770) 971-5407. FAX: (770) 971-0820.

FAYETTE COUNTY SHERIFF VEHICLE TACTICAL TRAINING FACILITY. LAND LOT(S) 172 OF THE 5TH DISTRICT, 5TH SECTION FAYETTE COUNTY, GEORGIA. ISSUED FOR CONSTRUCTION.

GSWCC CERT #78081 SHEET TITLE EROSION CONTROL NOTES. DRAWN BY BARRY BABB, CHECKED BY SMM. SCALE NONE, ISSUE DATE 04/01/2022. PROJECT NUMBER 1866.033, DRAWING NUMBER ER-100, SHEET 32 OF 37.



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.goswcc.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.

INITIAL PHASE NARRATIVE:

INITIAL PHASE IS THE INSTALLATION OF PERIMETER CONTROL BMPs INCLUDING CONSTRUCTION EXIT AND DOUBLE ROW OF SILT FENCE WITH MULCH. ONCE PERIMETER CONTROLS ARE INSTALLED AND FUNCTIONING DEMOLITION AND GRADING OPERATIONS CAN COMMENCE.

STRUCTURAL BMP LEGEND

Co		CONSTRUCTION EXIT
Sd1-S DOUBLE ROW		DOUBLE ROW OF SILT FENCE WITH LOOSE MULCH IN BETWEEN
Du		DUST CONTROL ON DISTURBED AREAS
Sd4-C		TEMPORARY SEDIMENT TRAP - ROCK OUTLET
Sd2-1 EXCAVATED INLET SEDIMENT TRAP		EXCAVATED INLET SEDIMENT TRAP

— LOD — LIMITS OF DISTURBANCE

INITIAL PHASE DISTURBED AREA:
41.69 ACRES

VEGETATIVE BMP LEGEND

Ds1		DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Ds2		DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

24 HOUR CONTACT:
BARRY BABB
TEL: (770)-706-4800

100 0 100 200 300
SCALE IN FEET



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

FAYETTE COUNTY SHERIFF

VEHICLE TACTICAL TRAINING FACILITY
LAND LOT(S) 172
OF THE 5TH DISTRICT, 5TH SECTION
FAYETTE COUNTY, GEORGIA

ISSUED FOR CONSTRUCTION

04	INTERNAL TRACK	10/15/2024
2	ACCESS ROAD REDESIGN	08/19/2023
1	LOP COMMENTS	07/19/2022
NO.	REVISION REFERENCE	DATE



GSWCC CERT #78081
SHEET TITLE
EROSION CONTROL PLAN - INITIAL PHASE

DRAWN BY ORG	CHECKED BY SMM
SCALE 1"=100'	ISSUE DATE 04/01/2022

PROJECT NUMBER
1866.033
DRAWING NUMBER
ER-200
SHEET 33 of 37

Drawing Location: P:\Marietta\1866 Fayette County\1866.033 Fayette County Sheriff Vehicle Tactical Training Track\Engineering\Design\1866.033_Erosion.dwg Plot Scale: 1"=100' Plot Style: Design.ctb. Plotted By: Scott McCallum on 10/22/2024, 12:39 PM

SEDIMENT STORAGE														
BASIN NAME	DRAINAGE AREA		DISTURBED AREA		SEDIMENT STORAGE (CY)		SILT FENCE		COMPOST FILTER SOCK		CHECK DAM		SD2-EXCAVATED	
	SF	AC	SF	AC	REQ'D SEDIMENT STORAGE	SEDIMENT STORAGE PROVIDED	LF	SEDIMENT STORAGE (CY)	LF	SEDIMENT STORAGE (CY)	EACH	SEDIMENT STORAGE (CY)	EACH	SEDIMENT STORAGE (CY)
A	237135.97	5.44	177586.60	4.08	273	1088	1173.42	704.052	0	0	0	0	1	384
B	219579.82	5.04	27451.81	0.63	42	0	0	0	0	0	0	0	0	0
C	189416.89	4.35	189416.89	4.35	291	910	0	0	1005.74	603.444	7	2.8	1	303.41
D	454096.12	10.42	259549.52	5.96	399	1403	2334.66	1400.796	0	0	5	2	0	0
E	434745.21	9.98	434745.21	9.98	669	2310	381.32	228.792	2315.75	1389.45	14	5.6	2	686.22
F	191729.35	4.40	191729.35	4.40	295	739	0	0	1223.98	734.388	11	4.4	0	0
G	496602.40	11.40	201290.51	4.62	310	1447	1169.26	701.556	0	0	12	4.8	1	740.74
TOTAL	2223305.76	51.04	1481769.89	34.02	2279	7896	5058.66	3035.196	4545.47	2727.282	49	19.6	5	2114.37

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 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.goswcc.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:

DURING DEMOLITION AND GRADING ACTIVITIES, INITIAL PHASE BMPs ARE TO BE MAINTAINED. SEDIMENT STORAGE WILL BE HANDLED BY DOUBLE ROW OF SILT FENCE WITH MULCH IN BETWEEN AND STONE CHECK DAMS ALONG THE SWALES. DIVERSIONS WILL BE CONSTRUCTED FOR THE ROCK DAMS, AND COMPOST FILTER SOCKS INSTALLED ON THE DESIGNATED AREAS. FILTER RINGS WILL BE CONSTRUCTED AROUND THE LABELED STORM STRUCTURES AND THE STORM INLET LOCATED WITHIN THE EXCAVATED INLET TRAP WILL REQUIRE A FILTER FABRIC WITH SUPPORTING FRAME. CHANNEL STABILIZATION IS TO BE INSTALLED IN LABELED AREAS.

DISTURBED AREA STABILIZATION SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE MANUAL. 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 ER-400-401.

STRUCTURAL BMP LEGEND

Co		CONSTRUCTION EXIT
Cd-S		STONE CHECK DAMS
Sd1-S		DOUBLE ROW SILT FENCE-TYPE SENSITIVE WITH LOOSE MULCH IN-BETWEEN
Sd1		SINGLE ROW SILT FENCE-TYPE SENSITIVE
Sd1		COMPOST FILTER SOCK
Sd2-F		INLET SEDIMENT TRAP-FILTER FABRIC WITH SUPPORTING FRAME
SD2-1		EXCAVATED INLET SEDIMENT TRAP
St		STORM DRAIN OUTLET PROTECTION
Sd4-C		TEMPORARY SEDIMENT TRAP - ROCK OUTLET
Rt-Sg		SILT CONTROL GATE
Du		DUST CONTROL ON DISTURBED AREAS

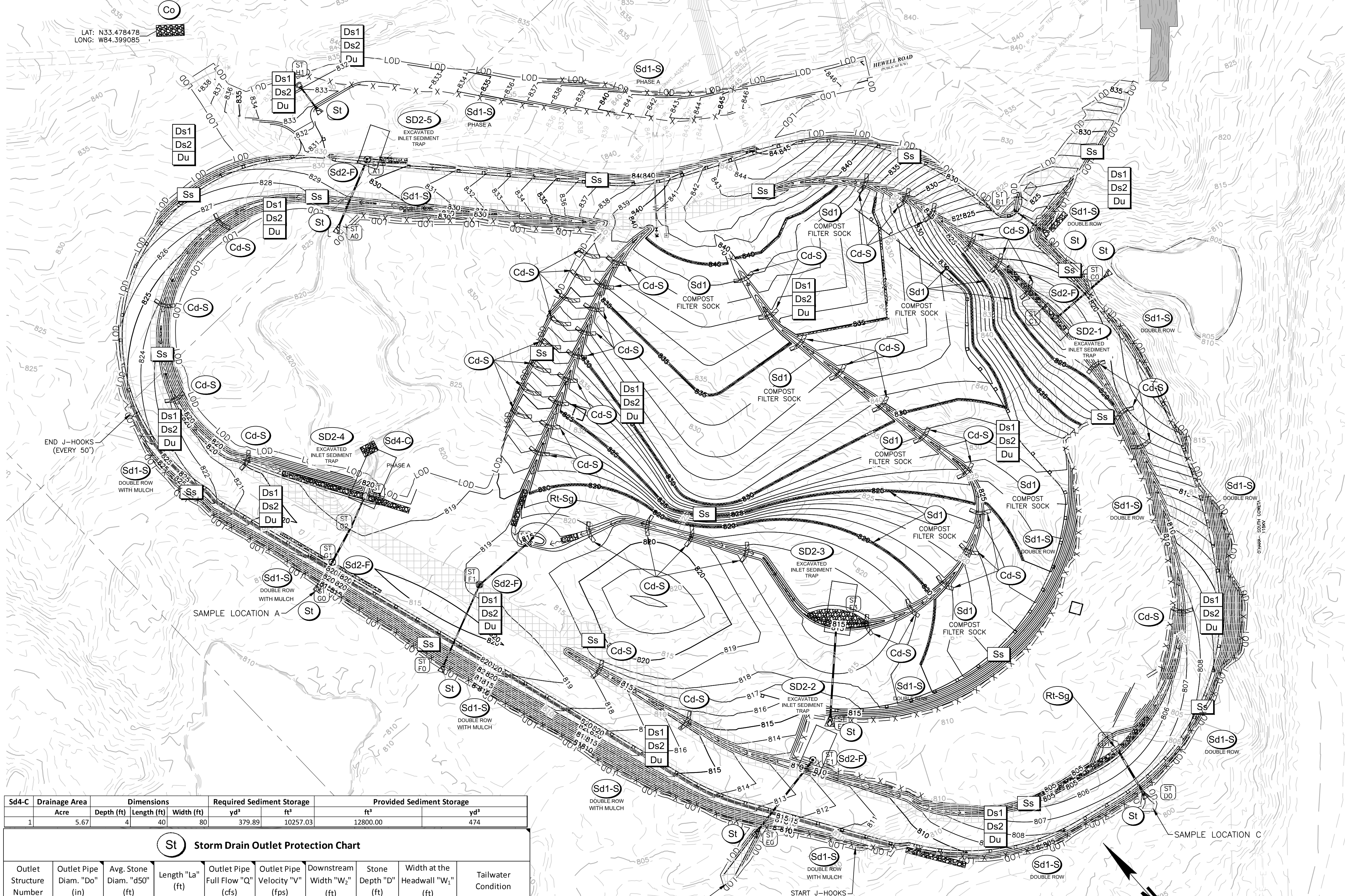
INTERMEDIATE PHASE DISTURBED AREA:

41.69 ACRES

VEGETATIVE BMP LEGEND

Ds1		DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Ds2		DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
Ss		SLOPE STABILIZATION

24 HOUR CONTACT:
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TEL: (770)-706-4800



Sd4-C	Drainage Area	Dimensions	Required Sediment Storage	Provided Sediment Storage
1	Acre	Depth (ft) Length (ft) Width (ft)	yd³ ft³	yd³
1	5.67	4 40 80	379.89 10257.03	12800.00 474

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 "W2" (ft)	Stone Depth "D" (ft)	Width at the Headwall "W1" (ft)	Tailwater Condition
A1	24	0.9	24	40.31	7.87	26.0	2.025	6.0	Tw<0.5 Diameter
B0	18	0.3	9	28.54	5.49	10.5	0.675	4.5	Tw<0.5 Diameter
C0	24	0.8	20	24.57	7.01	22.0	1.8	6.0	Tw<0.5 Diameter
D0	30	1.1	21.5	31.29	8.30	24.0	2.475	7.5	Tw<0.5 Diameter
E0	36	0.8	21	50.95	15.70	24.0	1.8	9.0	Tw<0.5 Diameter
E2	30	0.5	16	40.83	9.28	18.5	1.125	7.5	Tw<0.5 Diameter
F0	24	0.3	9	24.49	6.49	11.0	0.675	6.0	Tw<0.5 Diameter
G0	30	1.2	24	44.42	9.06	26.5	2.7	7.5	Tw<0.5 Diameter
H1	18	0.3	10	11.83	5.13	11.5	0.675	4.5	Tw<0.5 Diameter

Ex. Inlet	Drainage Area	Dimensions	Required Sediment Storage	Provided Sediment Storage
1	Acre	Depth (ft) Length (ft) Width (ft)	yd³ ft³	yd³
1	4.35	4 32 64	291.72 7876.48	8192 303.41
2	0.84	2 20 40	56.01 1512.32	1600 59.26
3	9.14	4 46 92	612.67 16542.18	16928 626.96
4	10.92	4 50 100	731.96 19762.80	20000 740.74
5	5.49	4 36 72	367.57 9924.42	10368 384.00
Totals	2059.93		55618.21	57088 2114.37



CROY

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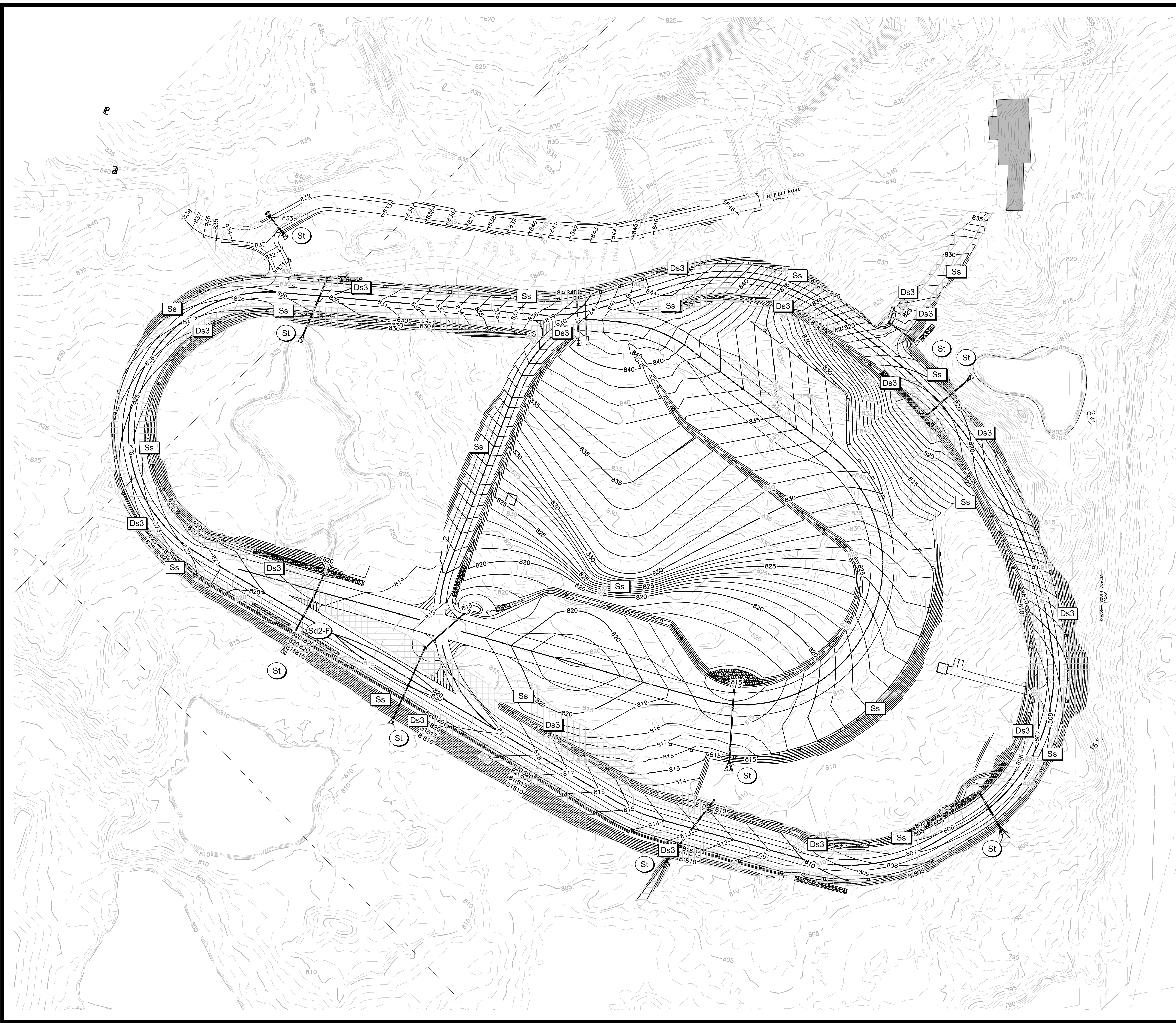
GSWCC CERT #78081

SHEET TITLE
EROSION CONTROL
PLAN - INTERMEDIATE
PHASE

DRAWN BY: ORG
CHECKED BY: SMM
SCALE: 1"=100'
ISSUE DATE: 04/01/2022

PROJECT NUMBER: 1866.033
DRAWING NUMBER: ER-300
SHEET 34 of 37

ISSUED FOR CONSTRUCTION
 Drawing Location: P:\Marietta\1866\Fayette County\1866\033\Fayette County Sheriff Vehicle Tactical Training Track\Track\Engineering\Design\1866.033_Erosion.dwg
 Plot Scale: 1"=100' Plot Style: Design.ctb, Printed By: Scott Huchally on 10/22/2024, 12:39 PM



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 FALLING 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.gswcc.georgia.gov.

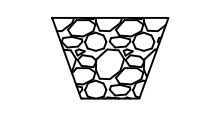
USE OF ALTERNATIVE BMP FOR APPLICATION TO THE EQUIVALENT BMP LIST. PLEASE REFER TO APPENDIX A-2 OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA 2016 EDITION.

FINAL PHASE NARRATIVE:

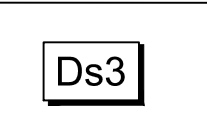
ONCE THE GRADING IS COMPLETE ACCUMULATED SEDIMENT FROM BMPs SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY IN PREPARATION OF FINAL CONSTRUCTION. CHANNEL STABILIZATION, SLOPE STABILIZATION AND PERMANENT GRASSING WILL BE INSTALLED AND MAINTAINED AS SHOWN. ONCE AREAS OF DISTURBANCE IN THIS PHASE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

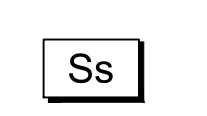
IMPLEMENTATION AND MAINTENANCE OF ALL BMPs SHALL BE ACCORDING TO THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. DETAILS FOR THE PROPOSED BMPs ARE INCLUDED ON SHEETS ER-500.

STRUCTURAL BMP LEGEND

St  STORM DRAIN OUTLET PROTECTION

VEGETATIVE BMP LEGEND

Ds3  DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING)

Ss  SLOPE STABILIZATION



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

FAYETTE COUNTY SHERIFF
VEHICLE TACTICAL TRAINING FACILITY
 LAND LOT(S) 172
 OF THE 5TH DISTRICT, 5TH SECTION
 FAYETTE COUNTY, GEORGIA

ISSUED FOR CONSTRUCTION

NO.	REVISION REFERENCE	DATE
04	INTERIAL TRACK	10/15/2024

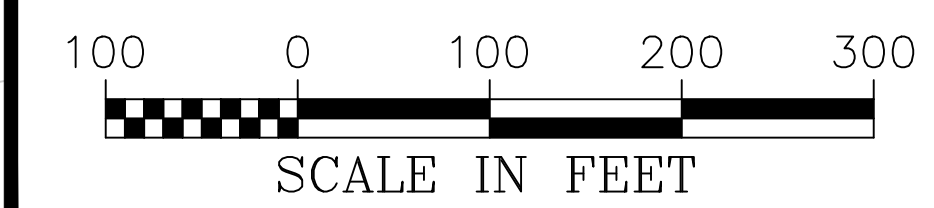


GSWCC CERT #78081
 SHEET TITLE
**EROSION CONTROL
 PLAN - FINAL PHASE**

DRAWN BY ORG	CHECKED BY SMM
SCALE 1"=100'	ISSUE DATE 04/01/2024

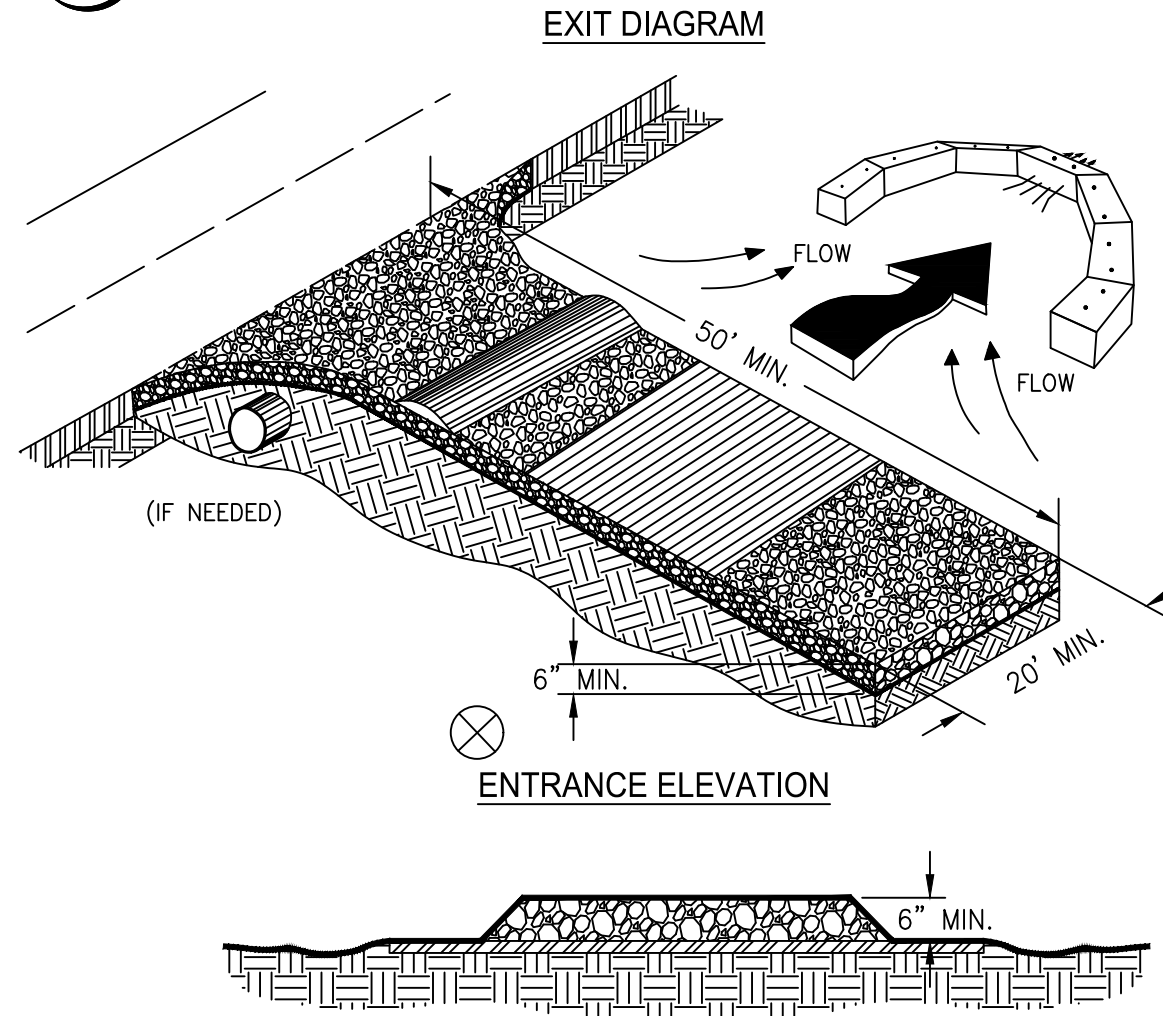
PROJECT NUMBER
1866.033
 DRAWING NUMBER
ER-400
 SHEET 35 of 37

24 HOUR CONTACT:
 BARRY BABB
 TEL: (770)- 706-4800



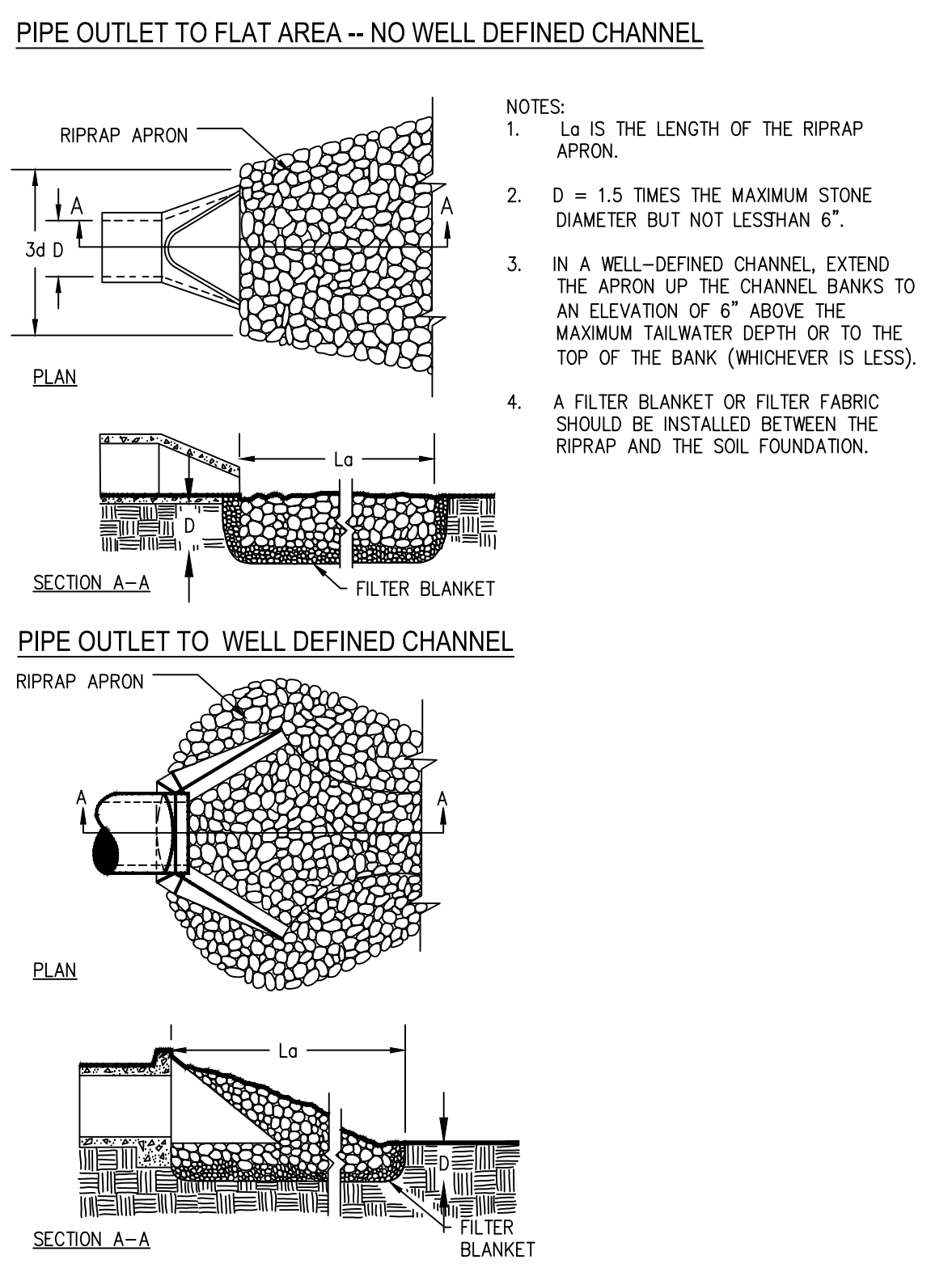
Drawing Location: "F:\Marietta\1866 Fayette County\1866\033 Fayette County Sheriff Vehicle Tactical Training Track\Engineering\Design\1866.033_Erosion.dwg
 Plot Scale: 1"=100' Plot Style: Design.ctb. Plotted By: Scott Huchly on 10/22/2024, 12:39 PM

(Co) CRUSHED STONE CONSTRUCTION EXIT

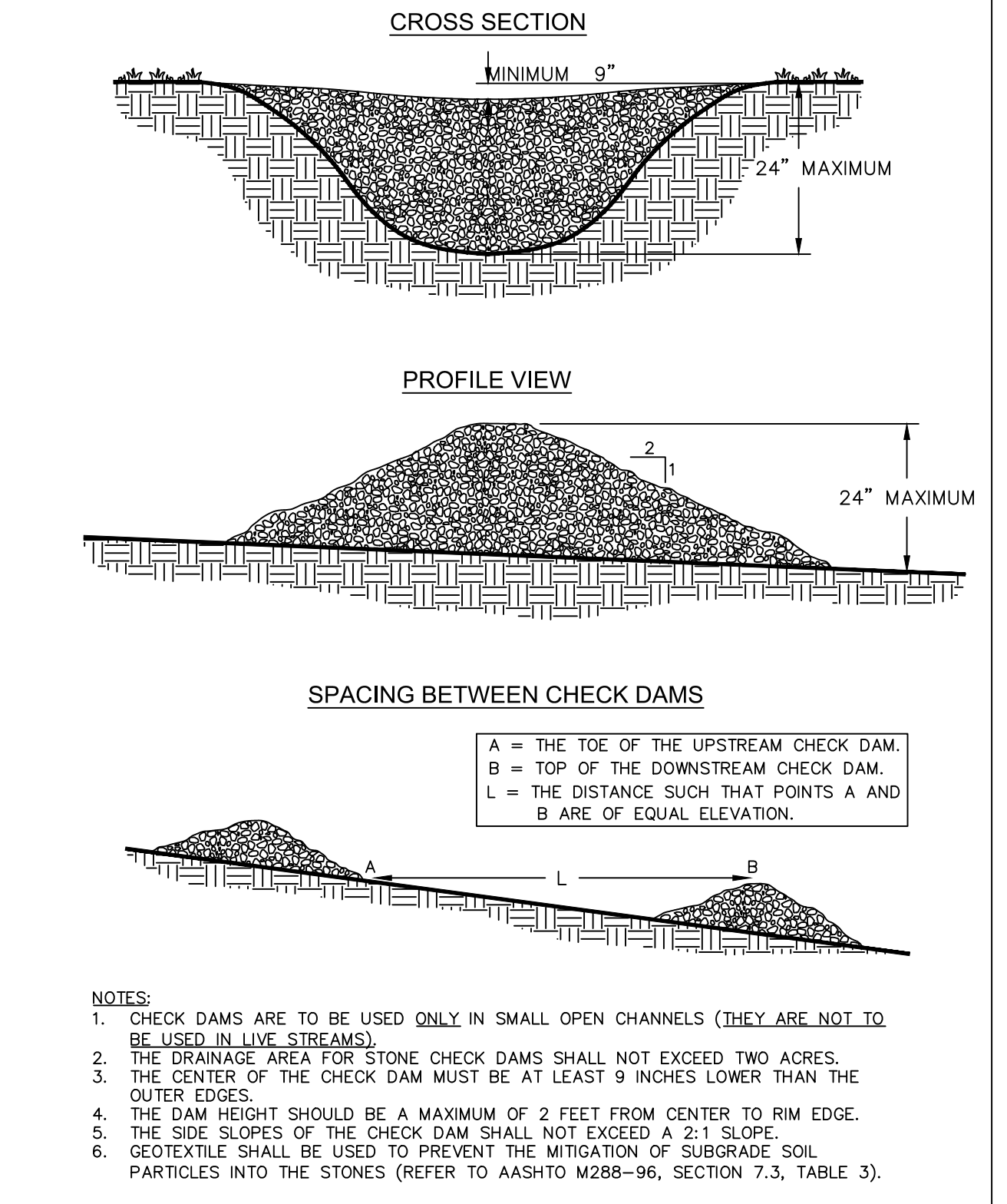


- NOTES:**
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
 4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
 5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
 6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
 9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
 10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

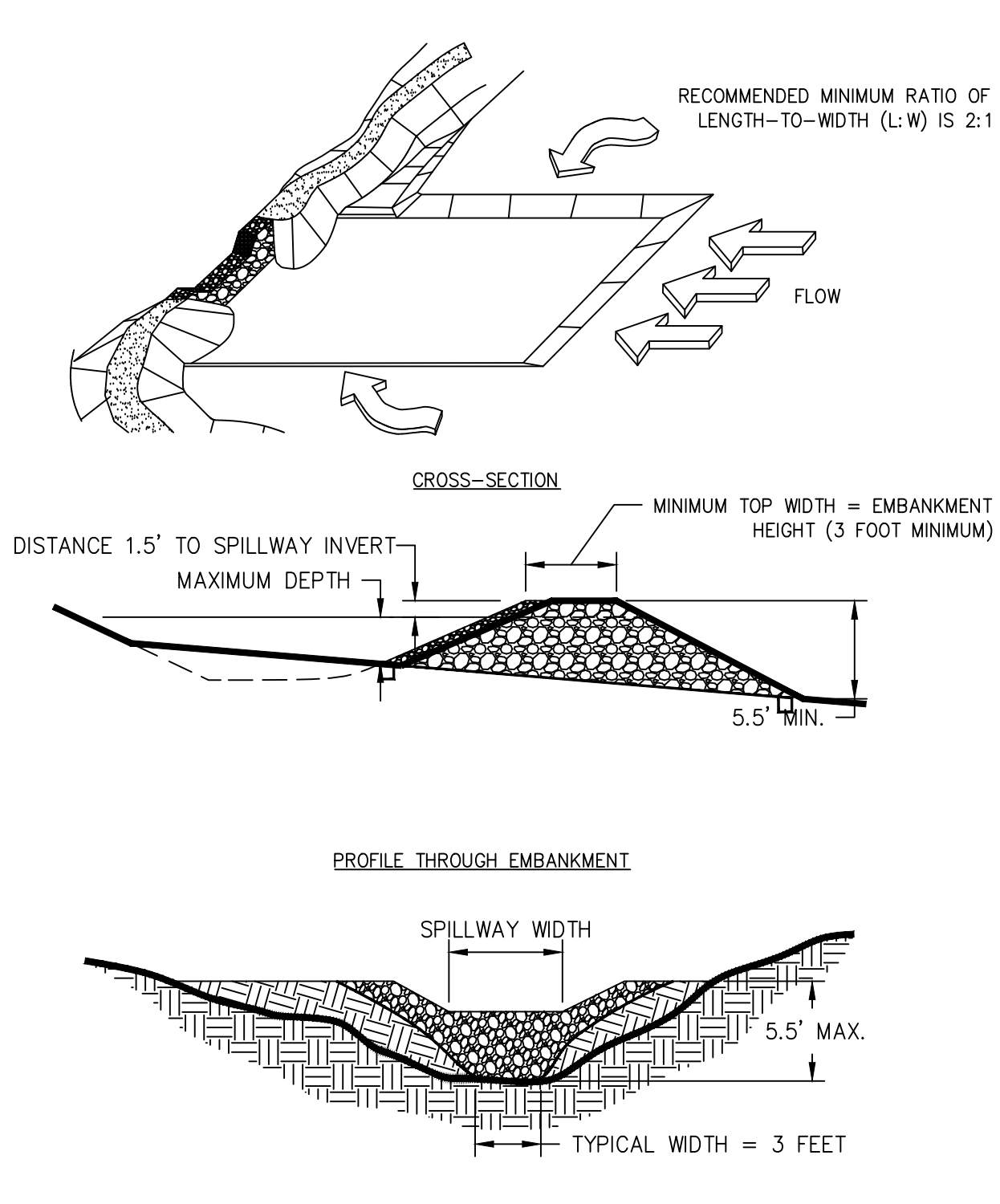
(St) RIPRAP OUTLET PROTECTION



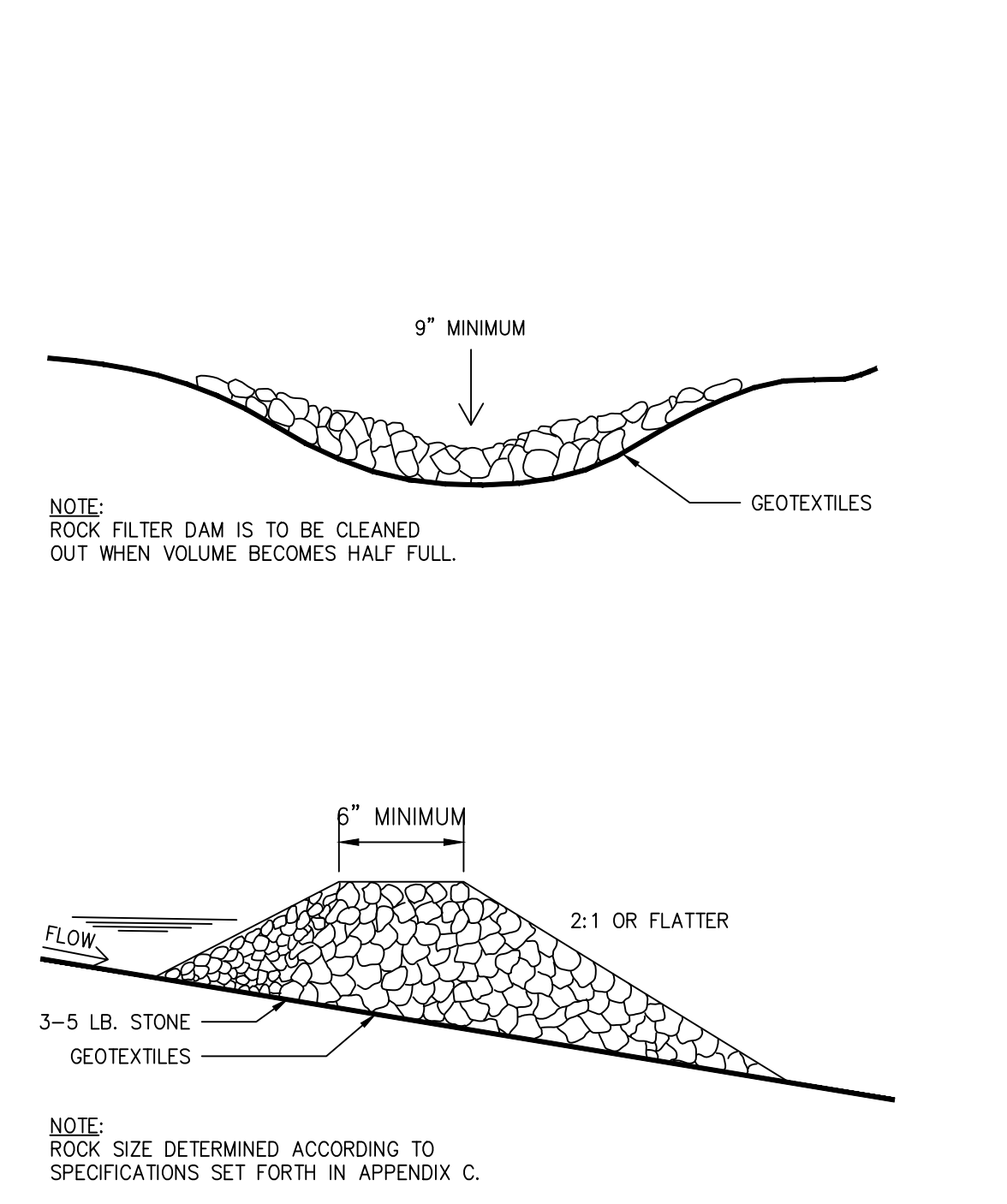
(Cd-S) STONE CHECK DAM



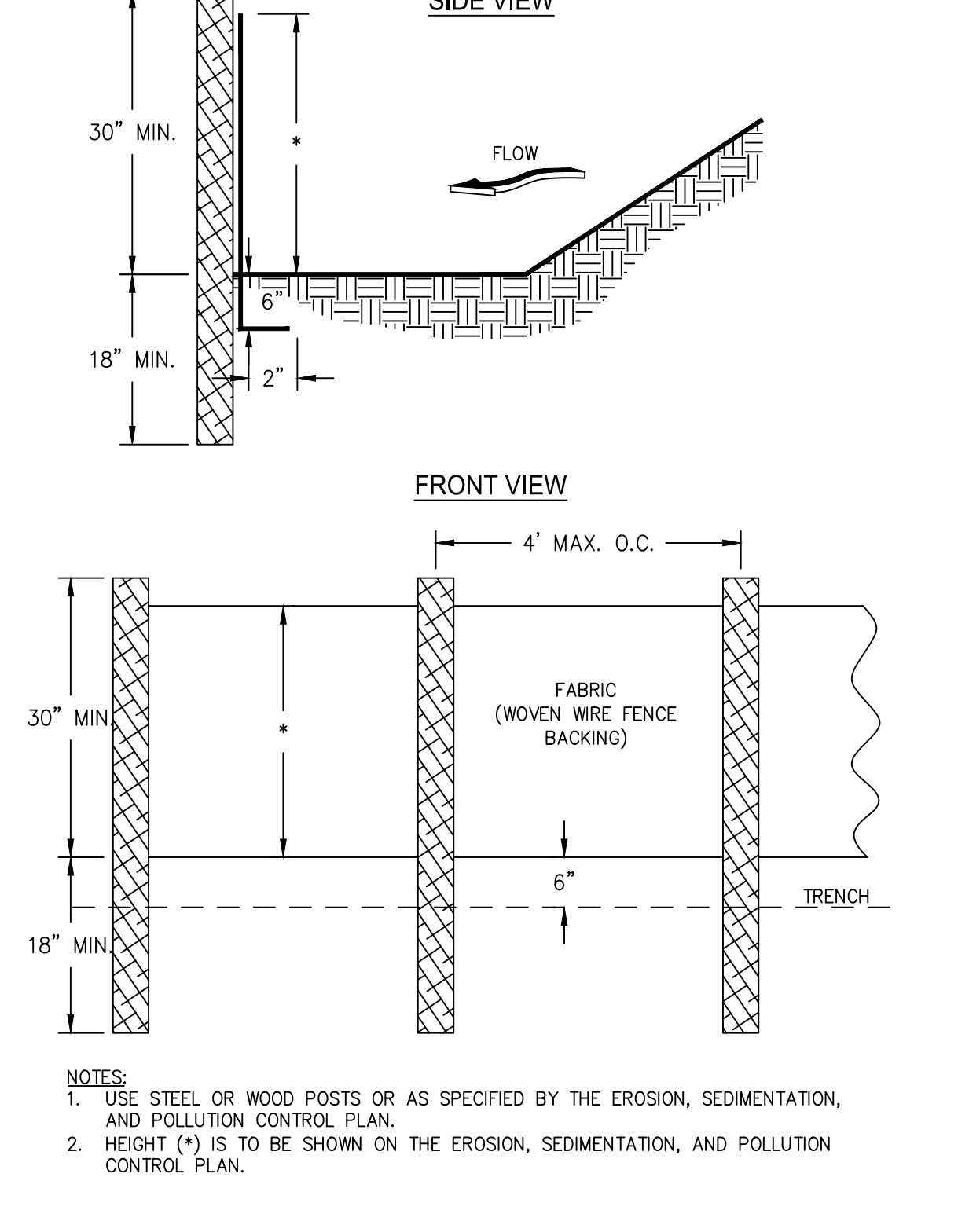
(Sd4-C) TEMPORARY SEDIMENT TRAP
COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT CONTROL



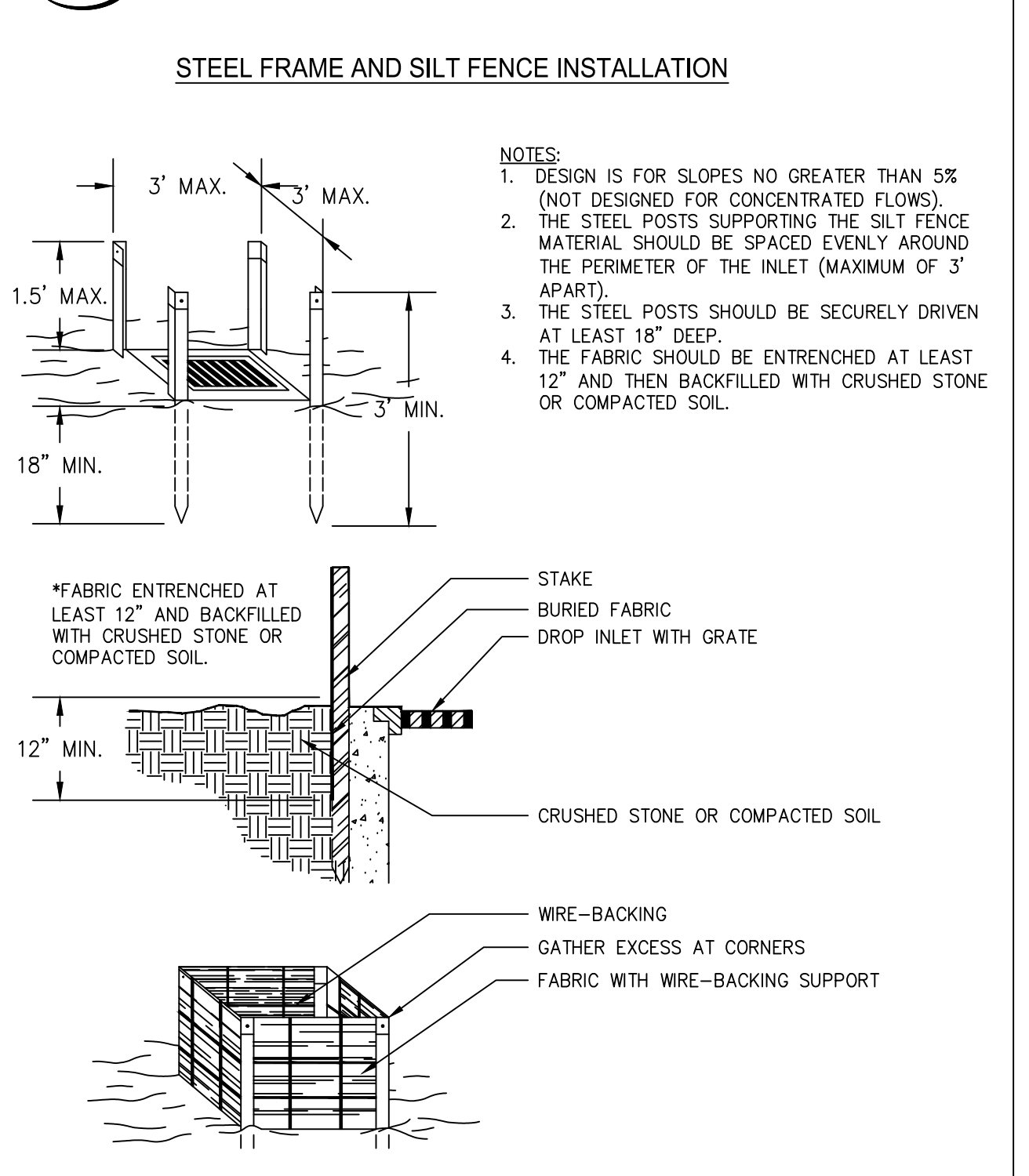
(Rd) ROCK FILTER DAM



(Sd1-S) SILT FENCE - TYPE SENSITIVE



(Sd2-F) FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION



CROY
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MARIETTA, GA 30062
PHONE: (770) 971-5407 FAX: (770) 971-0620
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FAYETTE COUNTY SHERIFF
VEHICLE TACTICAL TRAINING FACILITY
LAND LOT(S) 172
OF THE 5TH DISTRICT, 5TH SECTION
FAYETTE COUNTY, GEORGIA

NO.	REVISION REFERENCE	DATE
04	INTERNAL TRACK	10/15/2024

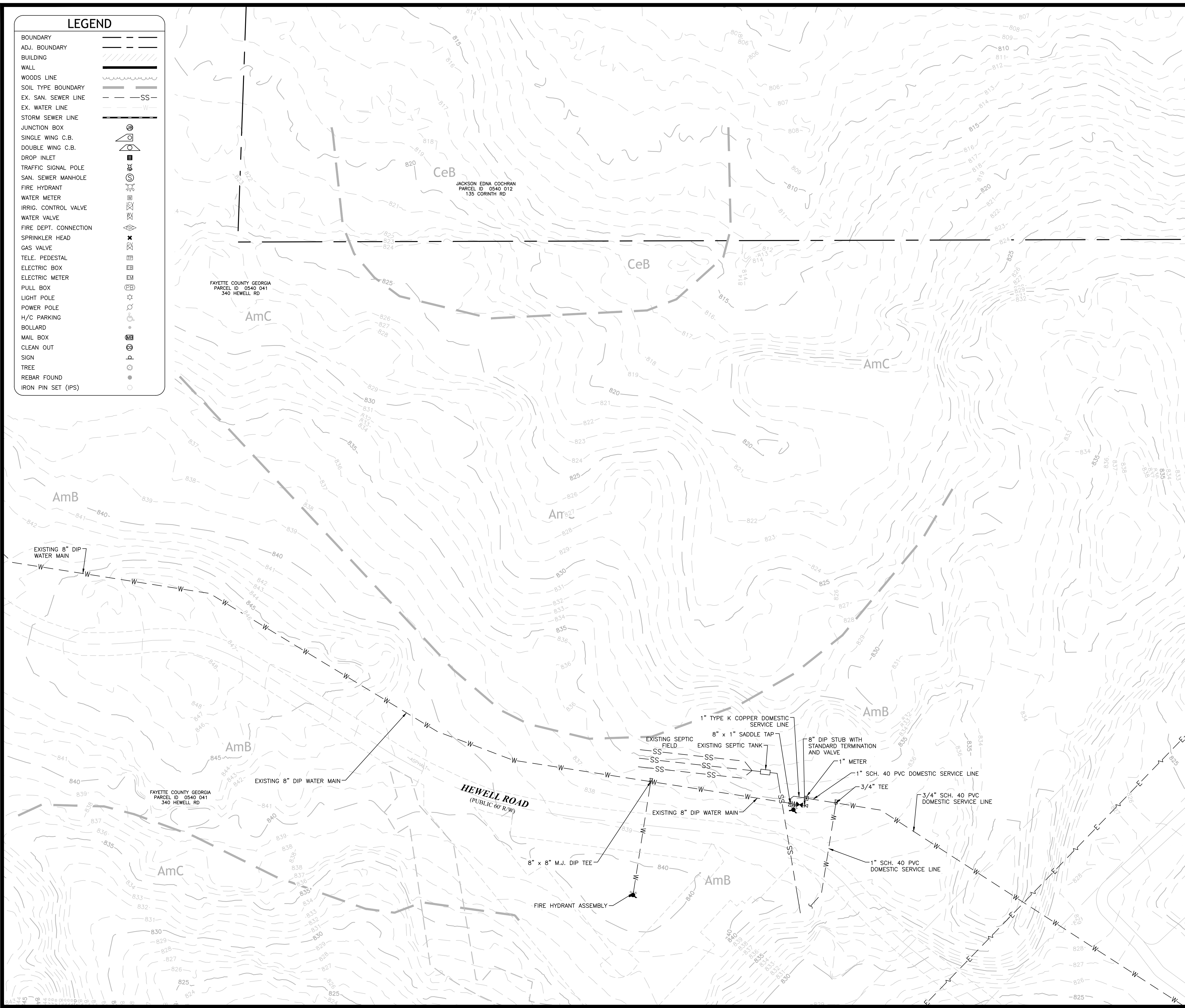


GSWCC CERT #78081
SHEET TITLE
EROSION CONTROL DETAILS
DRAWN BY: TBA
CHECKED BY: SMM
SCALE: N/A
ISSUE DATE: 04/01/2024

PROJECT NUMBER: 1866.033
DRAWING NUMBER:
ER-500
SHEET 36 of 37

Drawing Location: P:\Marietta\1866 Fayette County\1866.033 Fayette County Sheriff Vehicle Tactical Training Track\Engineering\design\1866.033_Cover_Notes.dwg, Cover, Notes.dwg, Detail.dwg, Plot Scale: 1"=40', Plot Style: Design.ctb, Plotted By: Chris Webb on 10/15/2024, 1:41 PM

ISSUED FOR CONSTRUCTION



LEGEND

- BOUNDARY
- ADJ. BOUNDARY
- BUILDING
- WALL
- WOODS LINE
- SOIL TYPE BOUNDARY
- EX. SAN. SEWER LINE
- EX. WATER LINE
- STORM SEWER LINE
- JUNCTION BOX
- SINGLE WING C.B.
- DOUBLE WING C.B.
- DROP INLET
- TRAFFIC SIGNAL POLE
- SAN. SEWER MANHOLE
- FIRE HYDRANT
- WATER METER
- IRRIG. CONTROL VALVE
- WATER VALVE
- FIRE DEPT. CONNECTION
- SPRINKLER HEAD
- GAS VALVE
- TELE. PEDESTAL
- ELECTRIC BOX
- ELECTRIC METER
- PULL BOX
- LIGHT POLE
- POWER POLE
- H/C PARKING
- BOLLARD
- MAIL BOX
- CLEAN OUT
- SIGN
- TREE
- REBAR FOUND
- IRON PIN SET (IPS)

SURVEYOR'S NOTES

1. THIS PROPERTY MAY BE SUBJECT TO EASEMENTS, CLAIMS, PRESCRIPTIONS, SUBSURFACE CONDITIONS, OR OTHER MATTERS OF TITLE WHICH ARE NOT VISIBLE, NOT RECORDED, OR NOT DISCLOSED IN THE TITLE COMMITMENT PROVIDED BY THE OWNER, THE PURCHASER, OR ANY AGENTS THEREOF.
2. THE UTILITIES SHOWN ARE FOR THE CLIENTS CONVENIENCE ONLY - THERE MAY BE OTHER UNDERGROUND UTILITIES NOT SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE UNDERGROUND UTILITIES SHOWN OR NOT SHOWN. ALL DAMAGES MADE TO EXISTING UTILITIES BY THE OWNER OR THE OWNERS AGENT, SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER, OR THE OWNERS AGENT, I.E. UNDERGROUND TANKS, GAS LINES, WATER LINES, SEWER LINES, ETC.
3. THIS PLAT IS FOR THE EXCLUSIVE USE OF THE PARTIES STATED ON THE FACE OF THE SURVEY. ANY USE BY THIRD PARTIES IS AT THEIR OWN RISK.
4. ACCORDING TO THE F.E.M.A. FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER 13113C0107E, EFFECTIVE 09/26/2008, FOR FAYETTE COUNTY, GEORGIA, THIS PROPERTY DOES LIE WITHIN A 100 YEAR FLOOD PLAIN AS DEFINED BY F.E.M.A.
5. BOUNDARY AND RIGHT-OF-WAY INFORMATION SHOWN HEREON IS DERIVED FROM INFORMATION PROVIDED BY FAYETTE COUNTY.
6. TOPOGRAPHIC INFORMATION SHOWN HEREON IS DERIVED FROM GIS INFORMATION PROVIDED BY FAYETTE.
7. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS LOCATED ON THE SITE AND COORDINATE ANY DISCREPANCIES WITH THE DESIGN PROFESSIONAL.

SOILS SERIES TABLE - HSG B

CeB	CECIL SANDY LOAM 2 TO 6 PERCENT SLOPES
AmB	APPLING SANDY LOAM 2 TO 6 PERCENT SLOPES
AmC	APPLING SANDY LOAM 6 TO 10 PERCENT SLOPES

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.

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.



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

50 0 50 100 150
SCALE IN FEET

CROY

200 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

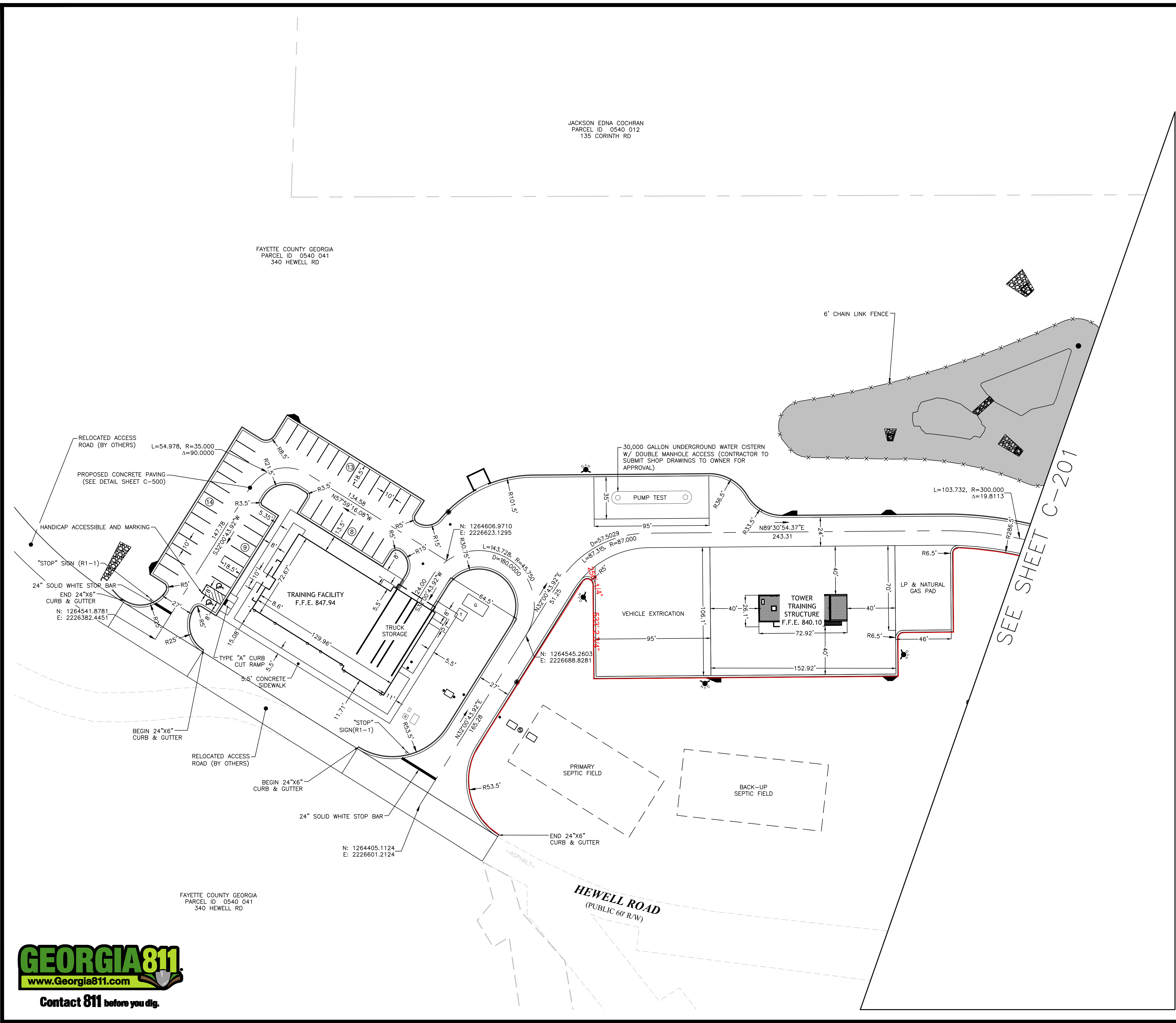
NO.	REVISION REFERENCE	DATE

SEAL

SHEET TITLE
EXISTING CONDITIONS

DRAWN BY ORG	CHECKED BY SMM
SCALE 1"=50'	ISSUE DATE 04/01/2022
PROJECT NUMBER 1866.031	
DRAWING NUMBER C-100	
SHEET 2 of 25	

NOT ISSUED FOR CONSTRUCTION



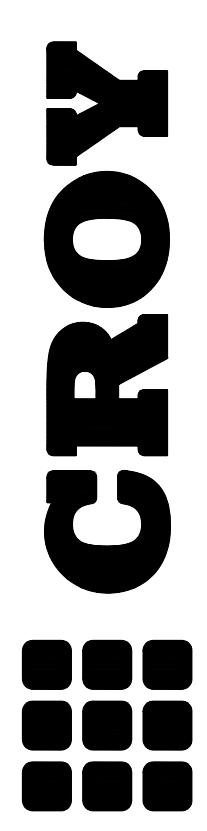
SITE PLAN NOTES

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.

LEGEND

PROPERTY AND EXISTING R/W LINE	---
LAND LOT LINE	---
PARKING SPACE COUNT	Ⓟ
BUILDING SETBACK LINE	---
FENCE	XXXX
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.



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 MARIETTA, GA 30062
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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

NO.	REVISION REFERENCE	DATE

SEAL

GSWCC CERT #78081

SHEET TITLE
SITE PLAN

DRAWN BY ORG	CHECKED BY SMM
SCALE 1"=40'	ISSUE DATE 04/01/2022

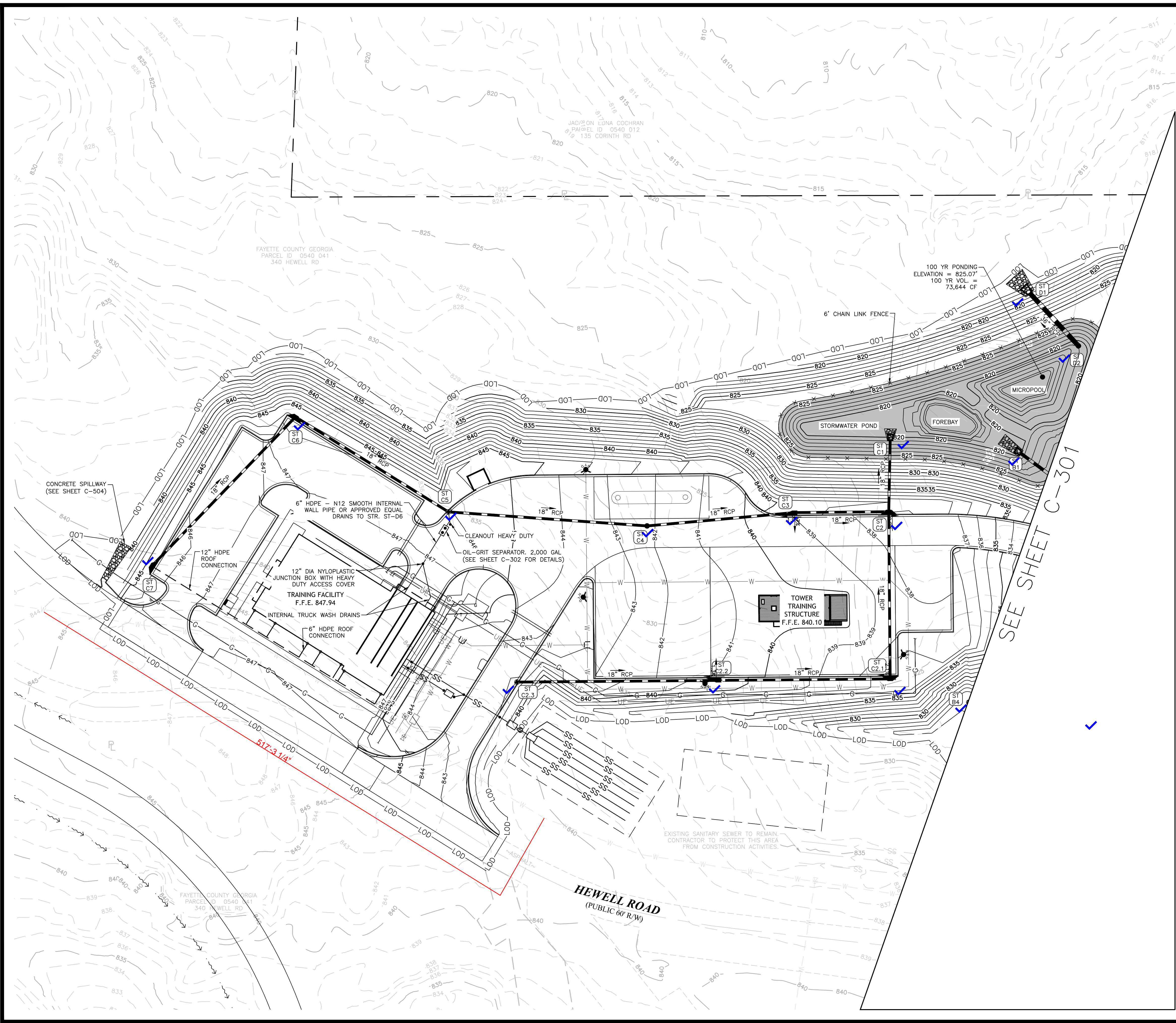
PROJECT NUMBER
1866.031
 DRAWING NUMBER
C-200
 SHEET 3 of 25

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

SCALE IN FEET



Drawing Location: "F:\Marietta\1866 Fayette County\1866\031 Task Order 02 - Fire and EMS Training Facility\Engineering\Design\1866\031_Plan.dwg
 Plot Scale: 1"=40' Drawing Location: "C:\Program Files\Autodesk\AutoCAD 2011\Help\Drawings\1866\031_Plan.dwg
 NOT ISSUED FOR CONSTRUCTION



GRADING AND PAVING NOTES


1. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
2. AREAS TO BE GRADED ARE TO BE STRIPPED, CLEARED AND GRUBBED PRIOR TO COMMENCING GRADING OPERATIONS. TOPSOIL SHALL BE STOCKPILED IN SUCH A MANNER AS TO NOT CONTAMINATE STRUCTURAL FILL.
3. NO SOIL FOUND ON THE SITE OR TRANSPORTED TO THE SITE WHICH IS CONTAMINATED SHALL BE USED FOR FILL, BACKFILL OR LANDSCAPING TOPSOIL.
4. ONCE DESIGNATED AREAS ARE STRIPPED, AT GRADE AREAS AND AREAS THAT ARE TO RECEIVE FILL SHALL BE PROOFROLLED WITH A HEAVILY LOADED DUMP TRUCK OR OTHER RUBBER-TIRED CONSTRUCTION EQUIPMENT. ANY MATERIAL THAT DEFLECTS EXCESSIVELY, WHICH CANNOT BE DENSIFIED BY CONTINUED ROLLING SHOULD BE UNDERCUT TO A MORE STABLE SOIL BEFORE PLACING FILL MATERIAL.
5. ALL FILL MATERIAL SHOULD BE PLACED IN THIN, HORIZONTAL LIFTS (MAXIMUM 8-INCH) AND COMPACTED TO AT LEAST 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698). THE UPPER 12 INCHES OF SOIL BENEATH PAVEMENTS AND SLABS-ON-GRADE SHOULD BE COMPACTED TO AT LEAST 98 PERCENT. IN CONFINED AREAS, SUCH AS UTILITY TRENCHES OR BEHIND RETAINING WALLS, PORTABLE EQUIPMENT AND THINNER FILL LIFTS (3 TO 4 INCHES) MAY BE NECESSARY. FILL MATERIAL USED IN STRUCTURAL AREAS SHOULD HAVE A TARGET MAXIMUM DRY DENSITY OF 95 pcf, OR GREATER. IF LIGHTER WEIGHT FILL MATERIALS ARE USED, A GEOTECHNICAL ENGINEER SHOULD BE CONSULTED.
6. MAXIMUM PROPOSED CUT AND FILL SLOPES SHALL BE 3' HORIZONTAL: 1' VERTICAL.
7. ALL CATCH BASINS, DROP INLETS OR OTHER DRAINAGE STRUCTURES SHALL COMPLY WITH THE LATEST STANDARDS APPROVED AND PROMULGATED BY THE GEORGIA DEPARTMENT OF TRANSPORTATION IN STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES, LATEST EDITION.
8. CONCRETE PIPE: FLAT BOTTOM AND CIRCULAR PIPE SECTIONS SHALL BE LAID IN A PREPARED TRENCH WITH SOCKET ENDS POINTING UPSTREAM. SECTIONS MAY BE JOINED BY BITUMINOUS PLASTIC CEMENT JOINTS, RUBBER TYPE GASKET JOINTS, "O" RING GASKET JOINTS, OR PRE-FORMED PLASTIC GASKET JOINTS. IN BITUMINOUS PLASTIC CEMENT JOINTS, THE ANNULAR SPACE SHALL BE FILLED WITH JOINT MATERIAL, AND THE INSIDE OF EACH JOINT WIPED SMOOTH. RUBBER-TYPE, "O" RING, AND PRE-FORMED PLASTIC GASKET JOINTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
9. TRENCH CONSTRUCTION FOR STORM DRAINAGE PIPE SHALL BE IN ACCORDANCE WITH STATE HIGHWAY STANDARD 1030D (OR MOST CURRENT).
10. THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA STANDARD PIPE CULVERTS NUMBER 1030D, LATEST EDITION SHALL BE USED IN DETERMINING THE CLASS OF REINFORCED CONCRETE PIPE OR GAUGE OF CORRUGATED STEEL PIPE OR TYPE 2 CORRUGATED ALUMINUM PIPE UNDER FILL AND THE METHOD OF BACKFILLING.
11. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING.
12. ALL SIDEWALK CURE SLOPES ARE 2.00% AWAY FROM THE BUILDING.

FEMA STATEMENT

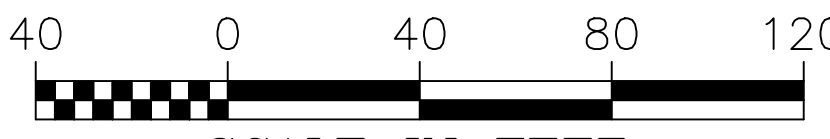
THIS PROPERTY IS NOT LOCATED IN A 100 YEAR FLOOD HAZARD AREA BASED ON THE FLOOD INSURANCE RATE MAP FOR THIS AREA. THE MAP NUMBER FOR THIS AREA IS 13113C0107E AND THE DATE OF SAID MAP IS SEPTEMBER 26, 2008.

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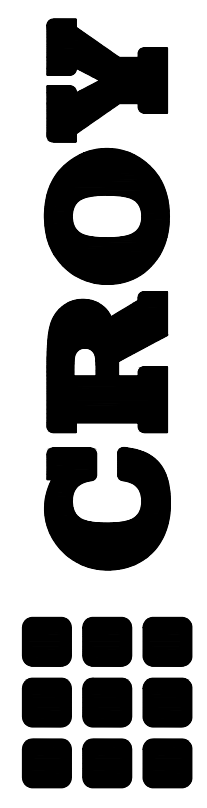




24 HOUR CONTACT:
JEFFREY HILL
TEL: (404) 569-8701



SCALE IN FEET



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

NO.	REVISION REFERENCE	DATE



GSWCC CERT #78081

SHEET TITLE
GRADING AND DRAINAGE PLAN

DRAWN BY ORG	CHECKED BY SMM
SCALE 1"=40'	ISSUE DATE 04/01/2022

PROJECT NUMBER
1866.031

DRAWING NUMBER
C-300
SHEET 6 of 25

Drawing Location: P:\Marietta\1866 Fayette County\1866\031 Task Order 02 - Fire and EMS Training Facility\Engineering\Design\1866_031_Design.dwg Plot Scale: 1"=40' Drawing Station: 3553' Plot Style: Design.ctb. Plotted By: Olivia Gaspario on 4/1/2022 9:40 AM



SEE SHEET C-300

GRADING AND PAVING NOTES

1. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
2. AREAS TO BE GRADED ARE TO BE STRIPPED, CLEARED AND GRUBBED PRIOR TO COMMENCING GRADING OPERATIONS. TOPSOIL SHALL BE STOCKPILED IN SUCH A MANNER AS TO NOT CONTAMINATE STRUCTURAL FILL.
3. NO SOIL FOUND ON THE SITE OR TRANSPORTED TO THE SITE WHICH IS CONTAMINATED SHALL BE USED FOR FILL, BACKFILL OR LANDSCAPING TOPSOIL.
4. ONCE DESIGNATED AREAS ARE STRIPPED, AT GRADE AREAS AND AREAS THAT ARE TO RECEIVE FILL SHALL BE PROOFROLLED WITH A HEAVILY LOADED DUMP TRUCK OR OTHER RUBBER-TIRED CONSTRUCTION EQUIPMENT. ANY MATERIAL THAT DEFLECTS EXCESSIVELY, WHICH CANNOT BE DENSIFIED BY CONTINUED ROLLING SHOULD BE UNDERCUT TO A MORE STABLE SOIL BEFORE PLACING FILL MATERIAL.
5. ALL FILL MATERIAL SHOULD BE PLACED IN THIN, HORIZONTAL LIFTS (MAXIMUM 8-INCH) AND COMPACTED TO AT LEAST 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698). THE UPPER 12 INCHES OF SOIL BENEATH PAVEMENTS AND SLABS-ON-GRADE SHOULD BE COMPACTED TO AT LEAST 98 PERCENT. IN CONFINED AREAS, SUCH AS UTILITY TRENCHES OR BEHIND RETAINING WALLS, PORTABLE EQUIPMENT AND THINNER FILL LIFTS (3 TO 4 INCHES) MAY BE NECESSARY. FILL MATERIAL USED IN STRUCTURAL AREAS SHOULD HAVE A TARGET MAXIMUM DRY DENSITY OF 95 pcf, OR GREATER. IF LIGHTER WEIGHT FILL MATERIALS ARE USED, A GEOTECHNICAL ENGINEER SHOULD BE CONSULTED.
6. MAXIMUM PROPOSED CUT AND FILL SLOPES SHALL BE 2' HORIZONTAL: 1' VERTICAL.
7. ALL CATCH BASINS, DROP INLETS OR OTHER DRAINAGE STRUCTURES SHALL COMPLY WITH THE LATEST STANDARDS APPROVED AND PROMULGATED BY THE GEORGIA DEPARTMENT OF TRANSPORTATION IN STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES, LATEST EDITION.
8. CONCRETE PIPE: FLAT BOTTOM AND CIRCULAR PIPE SECTIONS SHALL BE LAID IN A PREPARED TRENCH WITH SOCKET ENDS POINTING UPSTREAM. SECTIONS MAY BE JOINED BY BITUMINOUS PLASTIC JOINTS, RUBBER TYPE GASKET JOINTS, "O" RING GASKET JOINTS, OR PRE-FORMED PLASTIC GASKET JOINTS. IN BITUMINOUS PLASTIC CEMENT JOINTS, THE ANNULAR SPACE SHALL BE FILLED WITH JOINT MATERIAL, AND THE INSIDE OF EACH JOINT WIPED SMOOTH. RUBBER-TYPE, "O" RING, AND PRE-FORMED PLASTIC GASKET JOINTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
9. TRENCH CONSTRUCTION FOR STORM DRAINAGE PIPE SHALL BE IN ACCORDANCE WITH STATE HIGHWAY STANDARD 1030D (OR MOST CURRENT).
10. THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA STANDARD PIPE CULVERTS NUMBER 1030D, LATEST EDITION SHALL BE USED IN DETERMINING THE CLASS OF REINFORCED CONCRETE PIPE OR GAUGE OF CORRUGATED STEEL PIPE OR TYPE 2 CORRUGATED ALUMINUM PIPE UNDER FILL AND THE METHOD OF BACKFILLING.
11. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING.
12. ALL SIDEWALK CROSS SLOPES ARE 2.00% AWAY FROM THE BUILDING.

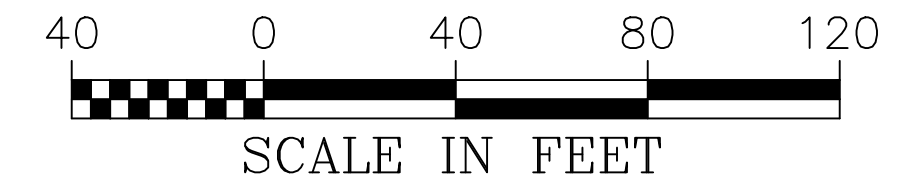
FEMA STATEMENT

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.

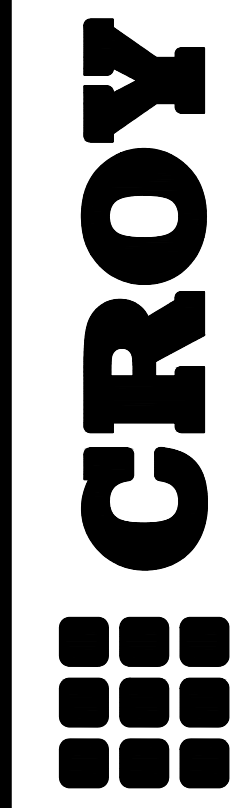
IF ANY CONFLICTS, DISCREPANCIES OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE OPERATION UNTIL THE CONFLICTS, DISCREPANCIES OR OTHER UNSATISFACTORY CONDITIONS ARE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



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

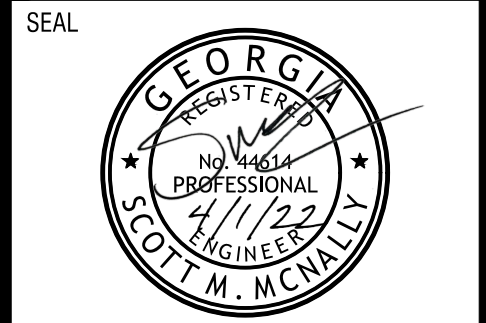
**FAYETTE COUNTY FIRE & EMS
TRAINING FACILITY**

DESIGN PHASE

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

NOT ISSUED FOR CONSTRUCTION

NO.	REVISION REFERENCE	DATE



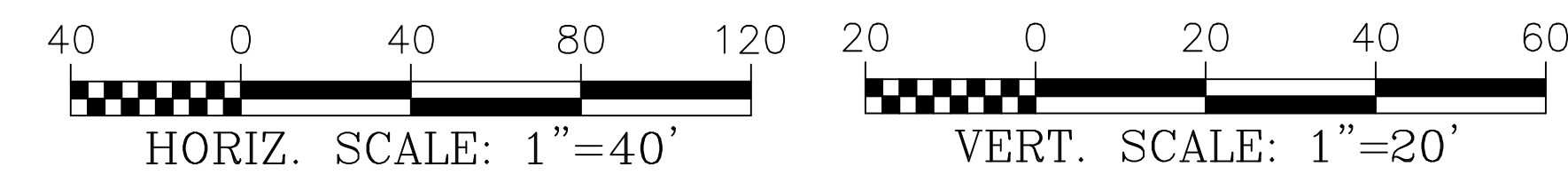
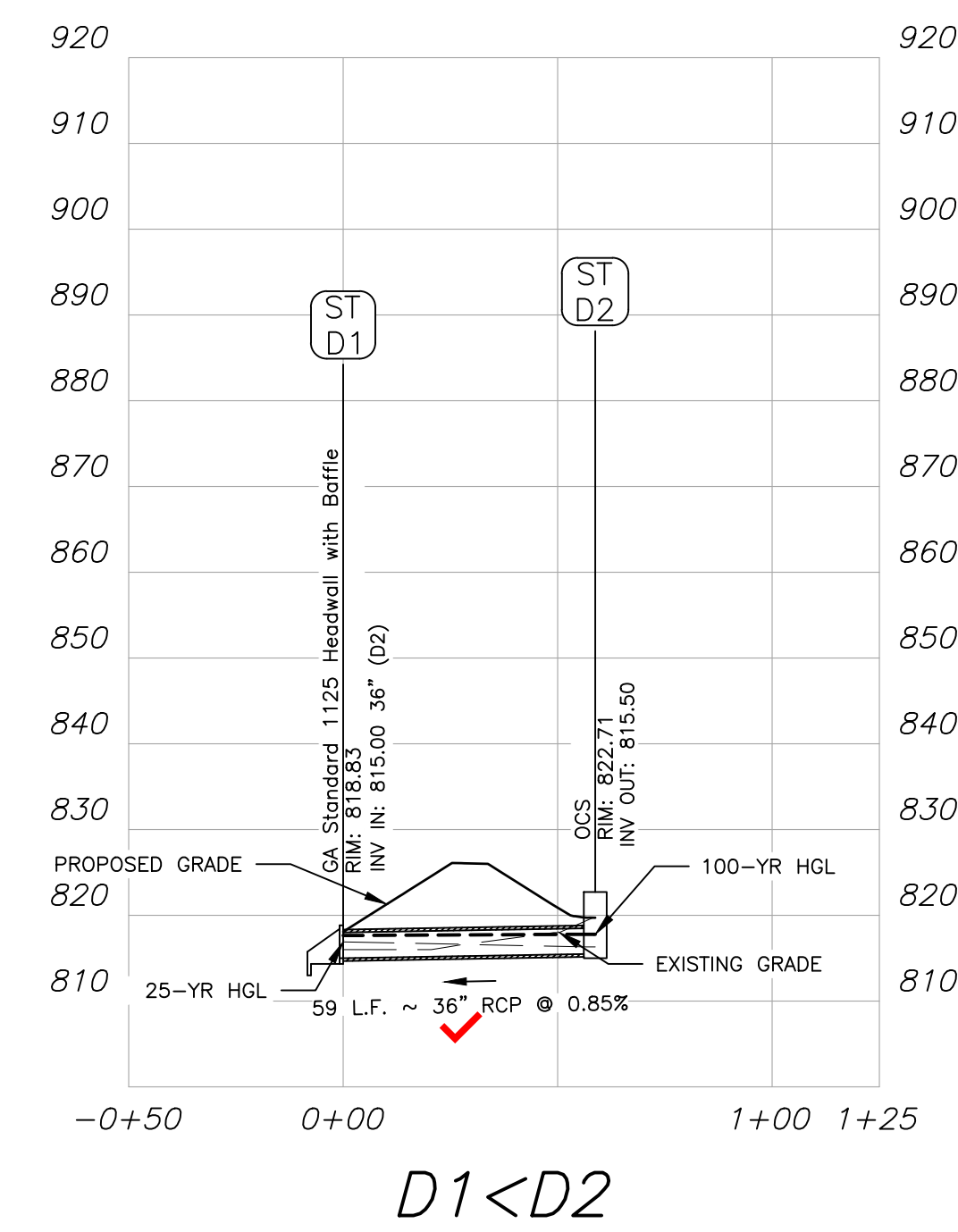
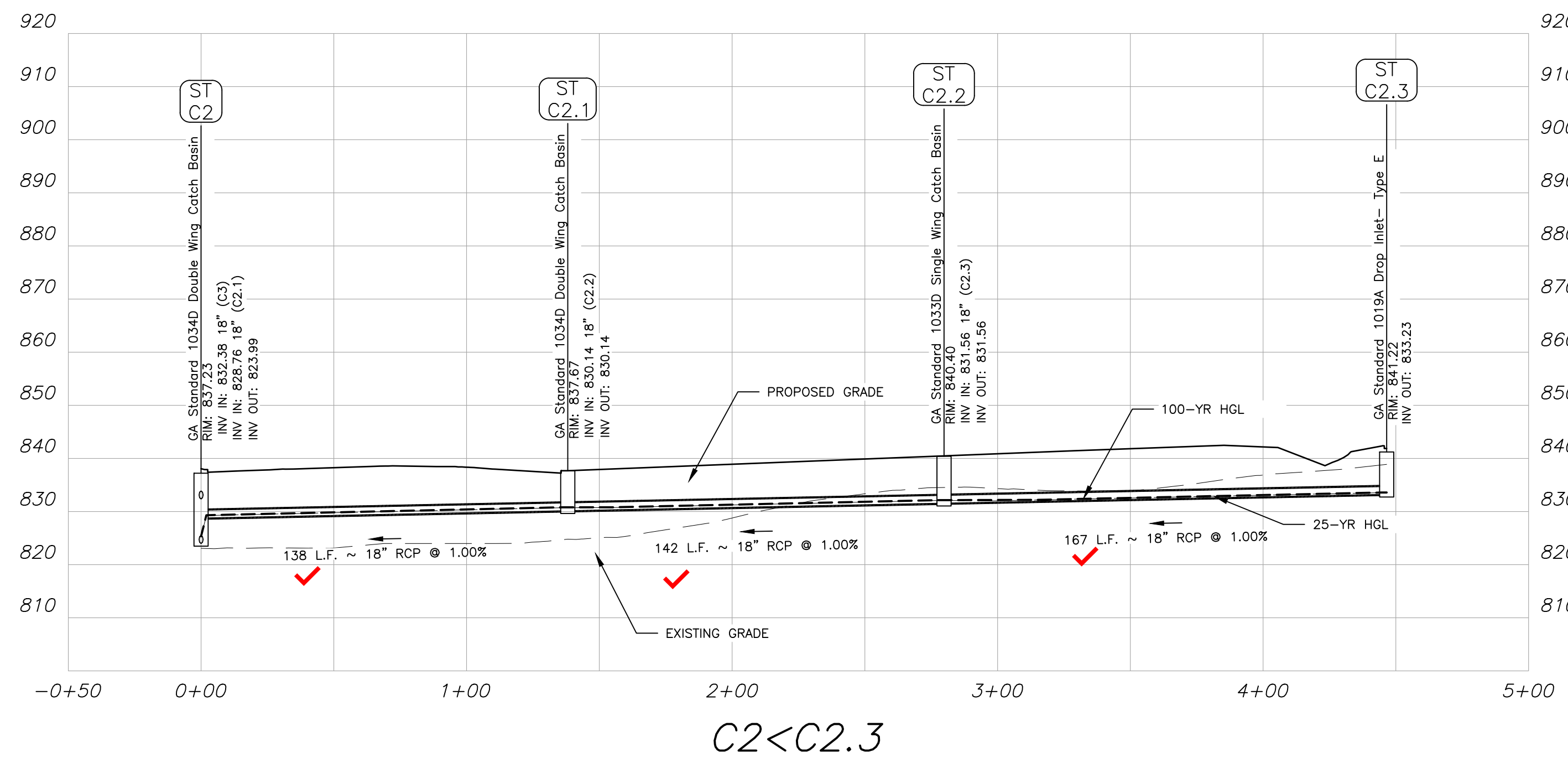
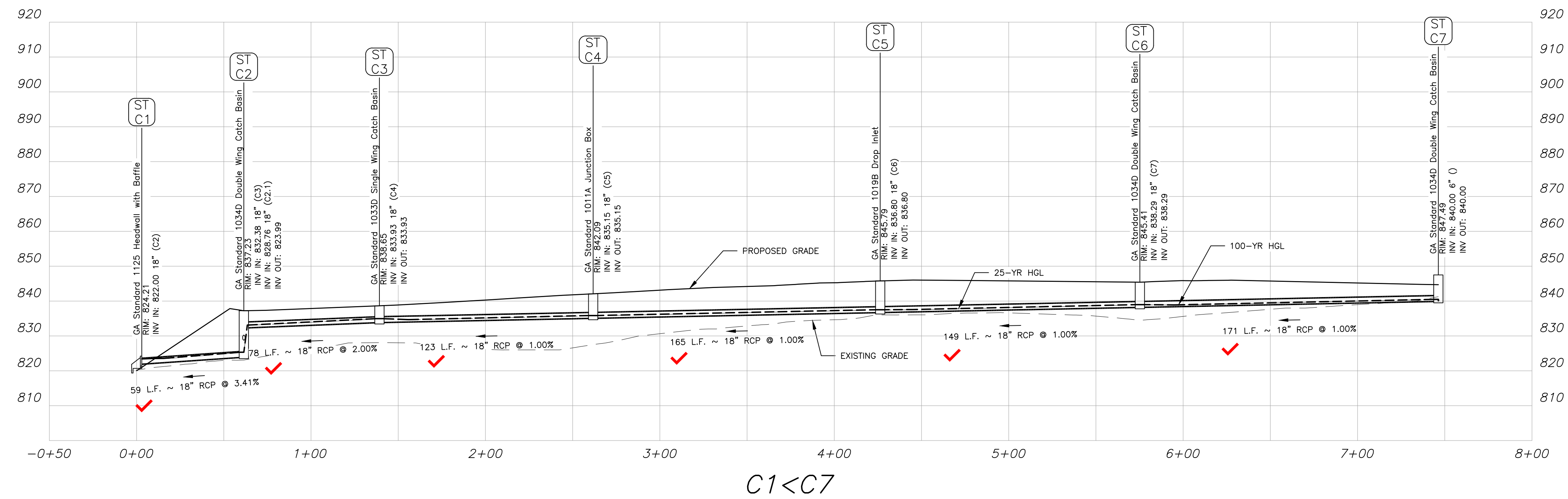
GSWCC CERT #78081

SHEET TITLE
GRADING AND DRAINAGE PLAN

DRAWN BY ORG	CHECKED BY SMM
SCALE 1"=40'	ISSUE DATE 04/01/2022

PROJECT NUMBER
1866.031

DRAWING NUMBER
C-301
SHEET 7 of 25



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

CROY

200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
MARIETTA, GA 30062
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Plot Style: Design.ctb, Plotted By: Olivia Guajardo on 4/1/2022, 9:40 AM

**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

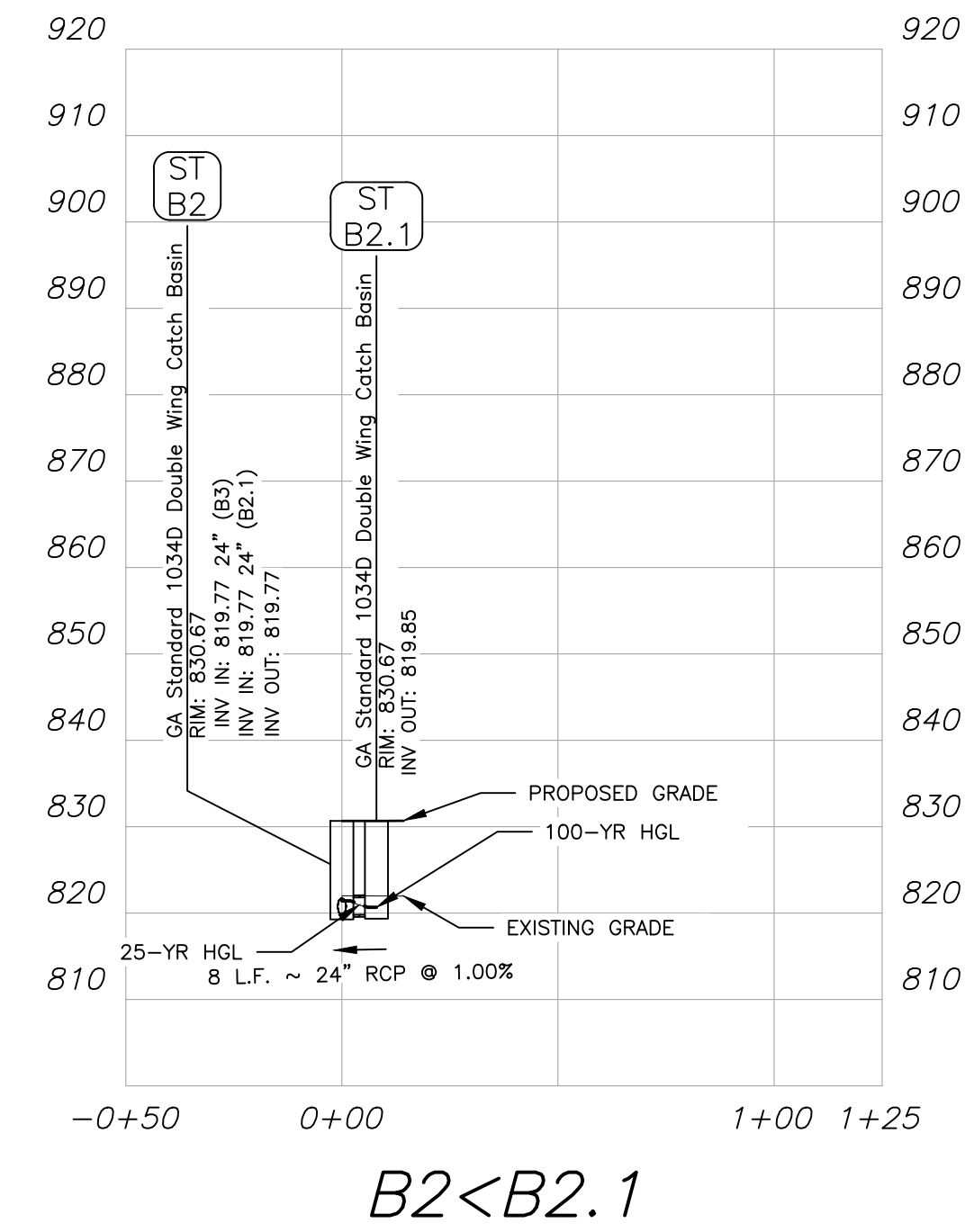
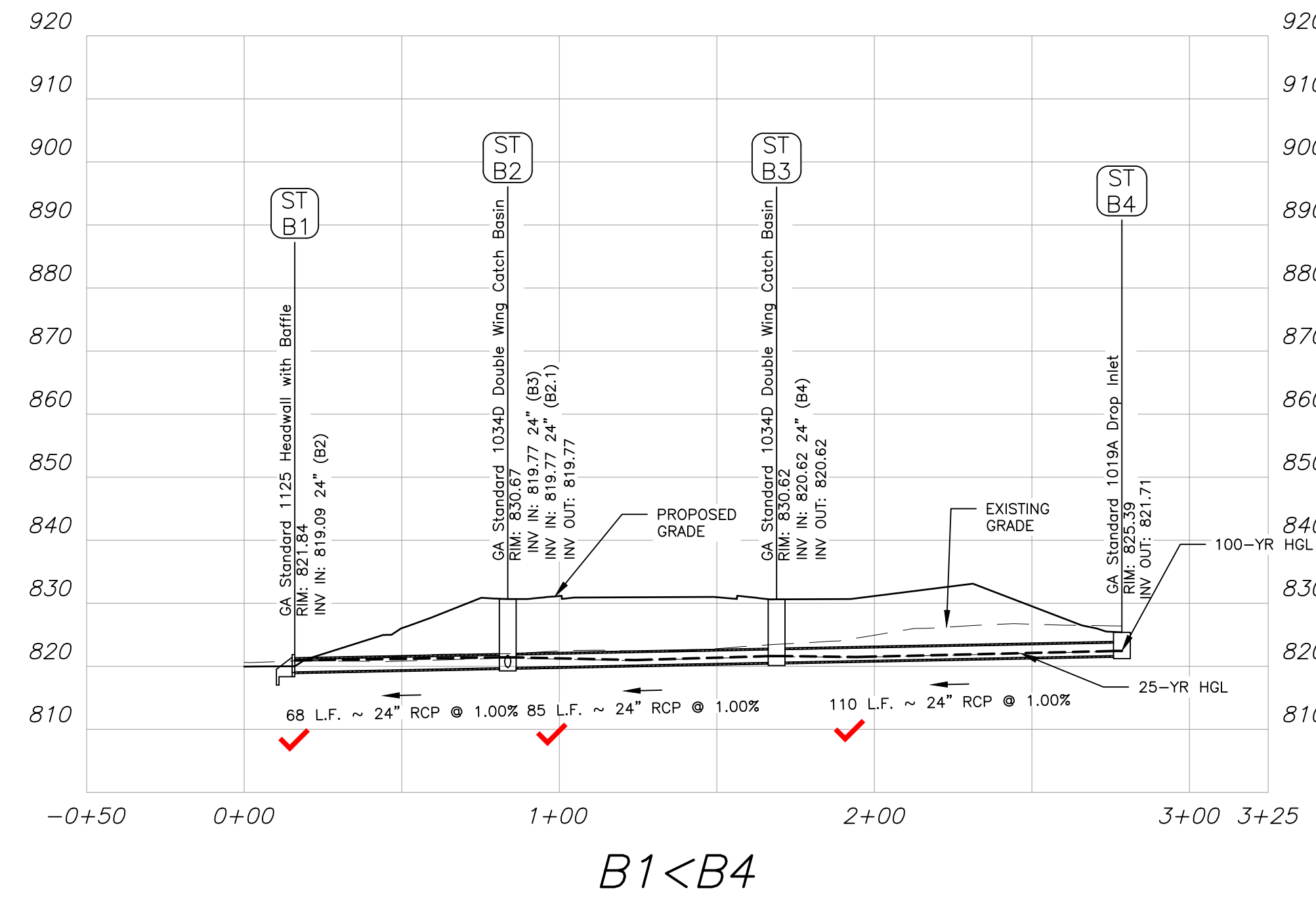
DRAWN BY ORG	CHECKED BY SMM
SCALE 1"=40'	ISSUE DATE 04/01/2022

PROJECT NUMBER
1866.031

DRAWING NUMBER
C-302

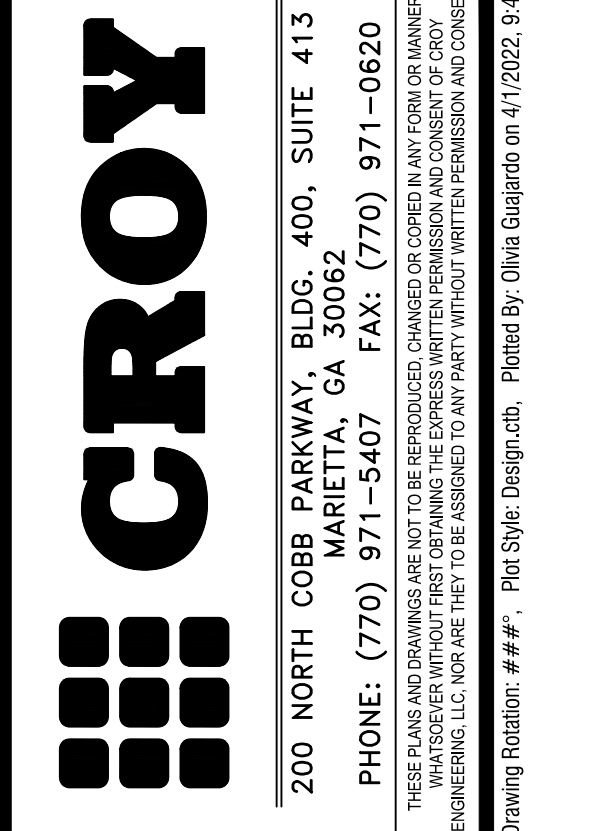
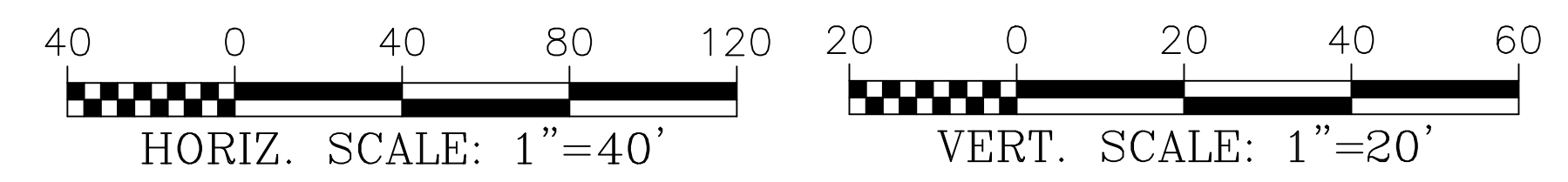
SHEET 8 of 25

Drawing Location: P:\Marietta\1866 Fayette County\1866.031 Task_Order_02 - Fire and EMS Training Facility\Engineering\Design\1866.031_Design.dwg



25 YEAR STORM																									
Line	ToLine	LineLength	Incr.Area	TotalArea	RunoffCoeff.	IncrC x A	TotalC x A	InletTime	TimeConc	RnfallInt	TotalRunoff	AdnlFlow	TotalFlow	CapacFull	Veloc	PipeSize	PipeSlope	Inv ElevDn	Inv ElevUp	HGLDn	HGLUp	Grnd/RimDn	Grnd/RimUp	Line ID	
1	Outfall	58.516	0.41	1.69	0.98	0.4	1.66	5.0	14.8	6.1	10.05	0.00	10.05	19.37	6.25	18	3.40	822.00	823.99	823.36	825.21	824.21	837.23	837.23	C1<C2
2	1	77.731	0.47	0.89	0.98	0.46	0.87	5.0	12.6	6.5	5.63	0.00	5.63	14.83	6.40	18	1.99	832.38	833.93	833.02	834.84	837.23	838.65	838.65	C2<C3
3	2	122.519	0.00	0.42	0.98	0	0.41	5.0	11.4	6.7	2.75	0.00	2.75	10.48	3.18	18	1.00	833.93	835.15	834.84	835.78	838.65	842.09	842.09	C3<C4
4	3	164.557	0.05	0.42	0.98	0.05	0.41	5.0	9.9	7.0	2.88	0.00	2.88	10.52	4.04	18	1.00	835.15	836.80	835.78	837.44	842.09	845.79	845.79	C4<C5
5	4	148.880	0.19	0.37	0.98	0.19	0.36	5.0	8.4	7.4	2.67	0.00	2.67	10.51	3.78	18	1.00	836.80	838.29	837.44	838.91	845.79	845.41	845.41	C5<C6
6	5	171.135	0.18	0.18	0.98	0.18	0.18	5.0	5.0	8.4	1.48	0.00	1.48	10.50	2.70	18	1.00	838.29	840.00	838.91	840.46	845.41	847.49	847.49	C6<C7
7	1	138.106	0.09	0.39	0.98	0.09	0.38	5.0	13.4	6.3	2.41	0.00	2.41	10.50	4.29	18	1.00	828.76	830.14	829.25	830.73	837.23	837.67	837.67	C2<C2.1
8	7	141.750	0.21	0.30	0.98	0.21	0.29	5.0	11.6	6.6	1.95	0.00	1.95	10.51	3.29	18	1.00	830.14	831.56	830.73	832.09	837.67	840.40	840.40	C2.1<C2.2
9	8	166.707	0.09	0.09	0.98	0.09	0.09	5.0	5.0	8.4	0.74	0.00	0.74	10.51	2.01	18	1.00	831.56	833.23	832.09	833.55	840.40	841.22	841.22	C2.2<C2.3
10	Outfall	67.585	0.95	2.91	0.98	0.93	2.29	5.0	7.3	7.7	17.57	0.00	17.57	22.69	6.46	24	1.01	819.09	819.77	820.84	821.28	821.30	830.67	830.67	B1<B2
11	10	85.330	0.41	1.41	0.98	0.4	0.82	5.0	6.6	7.9	6.46	0.00	6.46	22.57	3.63	24	1.00	819.77	820.62	821.28	821.52	830.67	830.62	830.62	B2<B3
12	11	109.620	1.00	1.00	0.42	0.42	0.42	5.0	5.0	8.4	3.52	0.00	3.52	22.55	3.25	24	0.99	820.62	821.71	821.52	822.37	830.62	825.39	825.39	B3<B4
13	10	8.000	0.55	0.55	0.98	0.54	0.54	5.0	5.0	8.4	4.52	0.00	4.52	22.61	3.00	24	1.00	819.77	819.85	821.28	820.60	830.67	830.67	830.67	B2 < B2.1
14	Outfall	58.757	0.00	0.00	0.00	0	0	5.0	5.0	0.0	0.00	6.70	6.70	61.52	2.87	36	0.85	815.00	815.50	816.91	816.31	818.83	822.71	822.71	D1<D2
100 YEAR STORM																									
Line	ToLine	LineLength	Incr.Area	TotalArea	RunoffCoeff.	IncrC x A	TotalC x A	InletTime	TimeConc	RnfallInt	TotalRunoff	AdnlFlow	TotalFlow	CapacFull	Veloc	PipeSize	PipeSlope	Inv ElevDn	Inv ElevUp	HGLDn	HGLUp	Grnd/RimDn	Grnd/RimUp	Line ID	
1	Outfall	58.516	0.41	1.69	0.98	0.4	1.66	5.0	13.2	7.6	12.65	0.00	12.65	19.37	7.46	18	3.40	822.00	823.99	823.42	825.33	824.21	837.23	837.23	C1<C2
2	1	77.731	0.47	0.89	0.98	0.46	0.87	5.0	11.4	8.0	7.02	0.00	7.02	14.83	6.86	18	1.99	832.38	833.93	833.11	834.95	837.23	838.65	838.65	C2<C3
3	2	122.519	0.00	0.42	0.98	0	0.41	5.0	10.4	8.3	3.41	0.00	3.41	10.48	3.42	18	1.00	833.93	835.15	834.95	835.85	838.65	842.09	842.09	C3<C4
4	3	164.557	0.05	0.42	0.98	0.05	0.41	5.0	9.1	8.6	3.54	0.00	3.54	10.52	4.30	18	1.00	835.15	836.80	835.85	837.52	842.09	845.79	845.79	C4<C5
5	4	148.880	0.19	0.37	0.98	0.19	0.36	5.0	7.9	9.0	3.25	0.00	3.25	10.51	4.01	18	1.00	836.80	838.29	837.52	838.98	845.79	845.41	845.41	C5<C6
6	5	171.135	0.18	0.18	0.98	0.18	0.18	5.0	5.0	9.9	1.75	0.00	1.75	10.50	2.82	18	1.00	838.29	840.00	838.98	840.50	845.41	847.49	847.49	C6<C7
7	1	138.106	0.09	0.39	0.98	0.09	0.38	5.0	12.1	7.9	3.01	0.00	3.01	10.50	4.58	18	1.00	828.76	830.14	829.31	830.80	837.23	837.67	837.67	C2<C2.1
8	7	141.750	0.21	0.30	0.98	0.21	0.29	5.0	10.6	8.2	2.42	0.00	2.42	10.51	3.50	18	1.00	830.14	831.56	830.80	832.15	837.67	840.40	840.40	C2.1<C2.2
9	8	166.707	0.09	0.09	0.98	0.09	0.09	5.0	5.0	9.9	0.88	0.00	0.88	10.51	2.09	18	1.00	831.56	833.23	832.15	833.58	840.40	841.22	841.22	C2.2<C2.3
10	Outfall	67.585	0.95	2.91	0.98	0.93	2.29	5.0	6.9	9.3	21.23	0.00	21.23	22.69	7.36	24	1.01	819.09	819.77	820.91	821.42	821.30	830.67	830.67	B1<B2
11	10	85.330	0.41	1.41	0.98	0.4	0.82	5.0	6.4	9.5	7.77	0.00	7.77	22.57	3.90	24	1.00	819.77	820.62	821.42	821.61	830.67	830.62	830.62	B2<B3
12	11	109.620	1.00	1.00	0.42	0.42	0.42	5.0	5.0	9.9	4.18	0.00	4.18	22.55	3.41	24	0.99	820.62	821.71	821.61	822.43	830.62	825.39	825.39	B3<B4
13	10	8.000	0.55	0.55	0.98	0.54	0.54	5.0	5.0	9.9	5.36	0.00	5.36	22.61	3.19	24	1.00	819.77	819.85	821.42	820.67	830.67	830.67	830.67	B2 < B2.1
14	Outfall	58.757	0.00	0.00	0.00	0	0	5.0	5.0	0.0	0.00	49.49	49.49	61.52	8.03	36	0.85	815.00	815.50	817.64	817.79	818.83	822.71	822.71	D1<D2

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



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

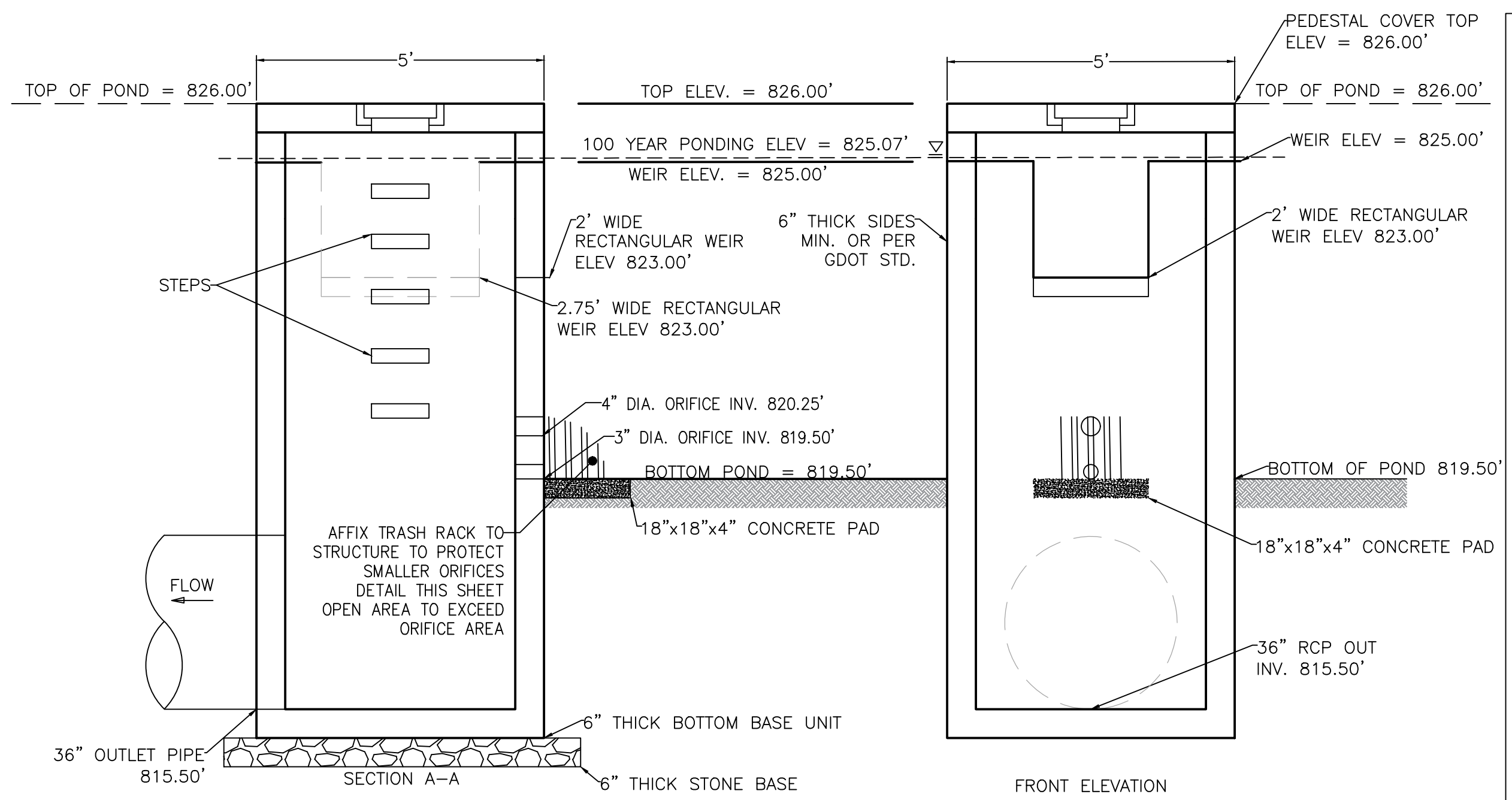
NO.	REVISION REFERENCE	DATE



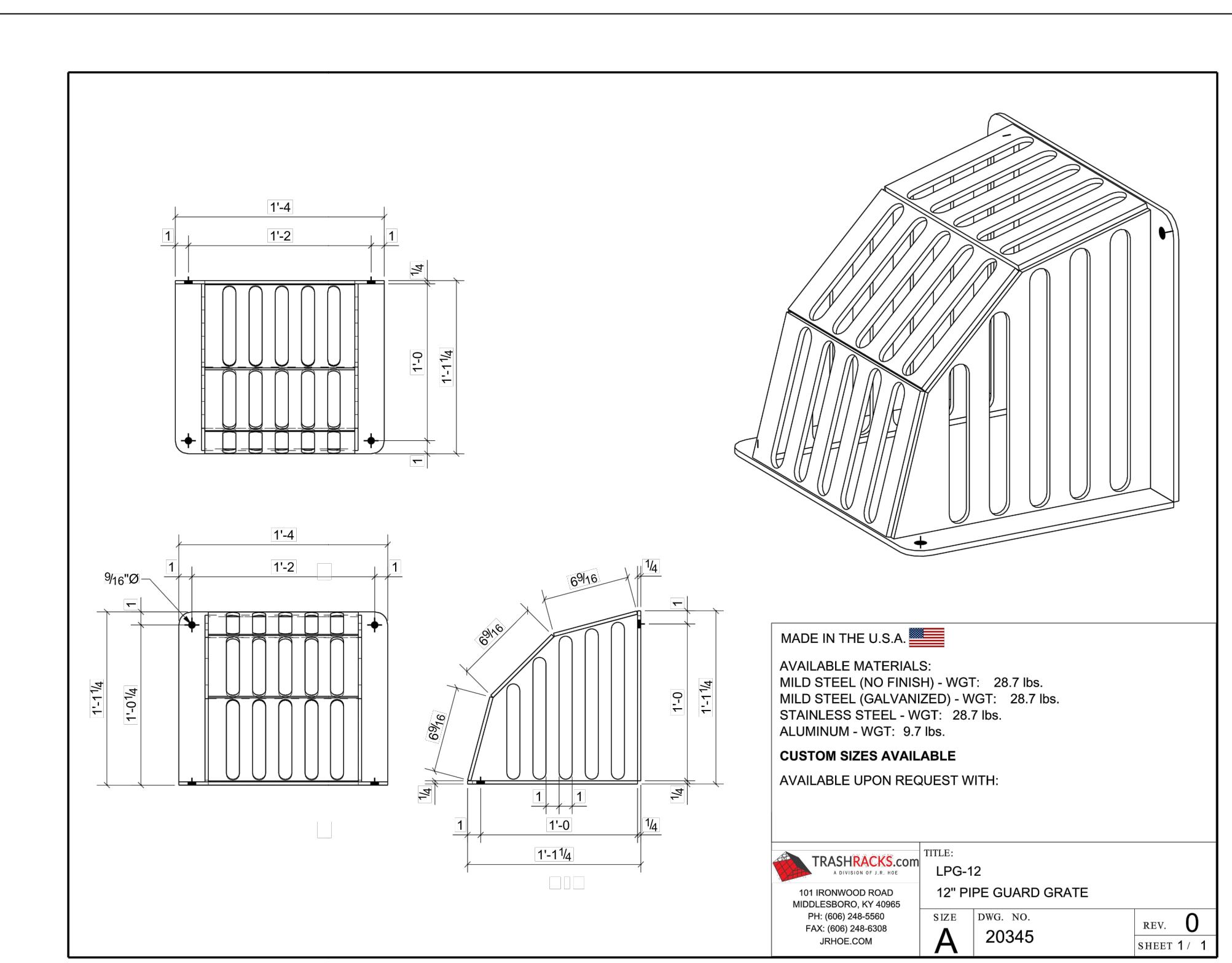
SHEET TITLE
DRAINAGE PROFILES

DRAWN BY: ORG
CHECKED BY: SMM
SCALE: 1"=40'
ISSUE DATE: 04/01/2022

PROJECT NUMBER: 1866.031
DRAWING NUMBER: C-303
SHEET 9 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
 $825' - 815.5' = 9.5'$
 $[9.5' \times 5' \times 5'] - [9.5' \times 4' \times 4'] = 85.5 \text{ CF}$
 $85.5 \text{ CF} + [5' \times 5' \times 0.5' \times 2'] + [0.5' \times 0.5' \times 0.5' \times 4'] = 111 \text{ CF}$
 $111 \text{ CF} - [\pi \times (0.16)^2 \times 0.5'] = 110.96 \text{ CF}$
 $110.96 \text{ CF} - [\pi \times (0.125)^2 \times 0.5'] = 110.94 \text{ CF}$
 $110.94 \text{ CF} - [2 \times 4.75] = 97.91$

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.

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.

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

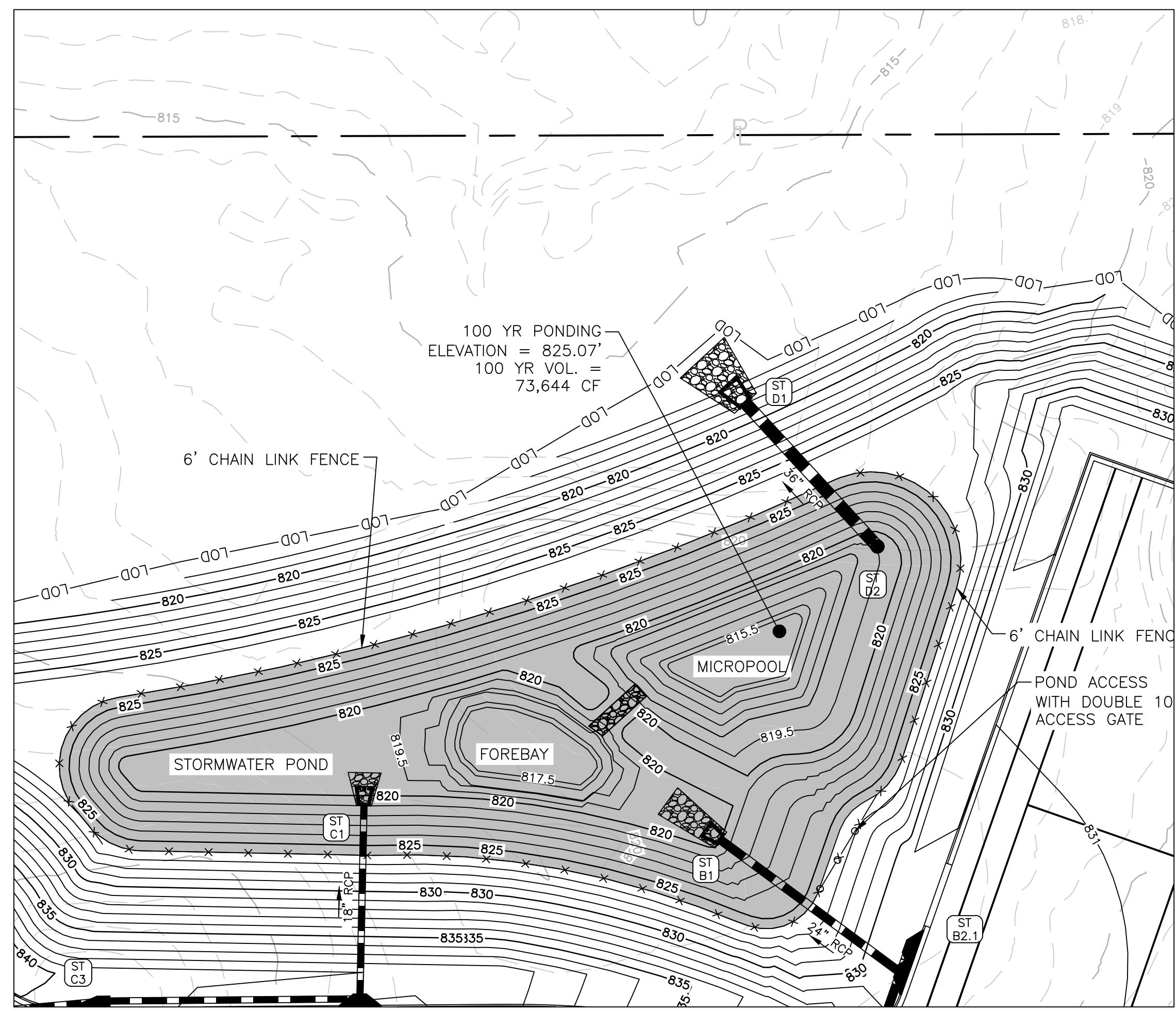
MATERIALS:
 CONCRETE: 4,000 PSI, TYPE I/II CEMENT
 MANUFACTURED TO ASTM C-913
 GRADE 60 REINFORCEMENT

NOTES:
 FULL-IRON, SUMPS, INSERTS AND OTHER HARDWARE
 AVAILABLE FOR SPECIAL UTILITY APPLICATIONS
 AASHTO H20 DESIGN LOADING AVAILABLE

PARTS SHOWN:
 7'-6" L x 5'-6" W x 6" THICK SLAB TOP WITH Ø26"
 8'-4" L x 4'-6" W x 4'-0" H 6" WALL RISER
 8'-6" L x 4'-6" W x 4'-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



GEORGIA811
www.Georgia811.com

Contact 811 before you dig.

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

SCALE IN FEET
 0 30 60 90

CROY

200 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

NO. REVISION REFERENCE DATE

SEAL

GEORGIA
 REGISTERED PROFESSIONAL ENGINEER
 M. MCENALLY

GSWCC CERT #78081

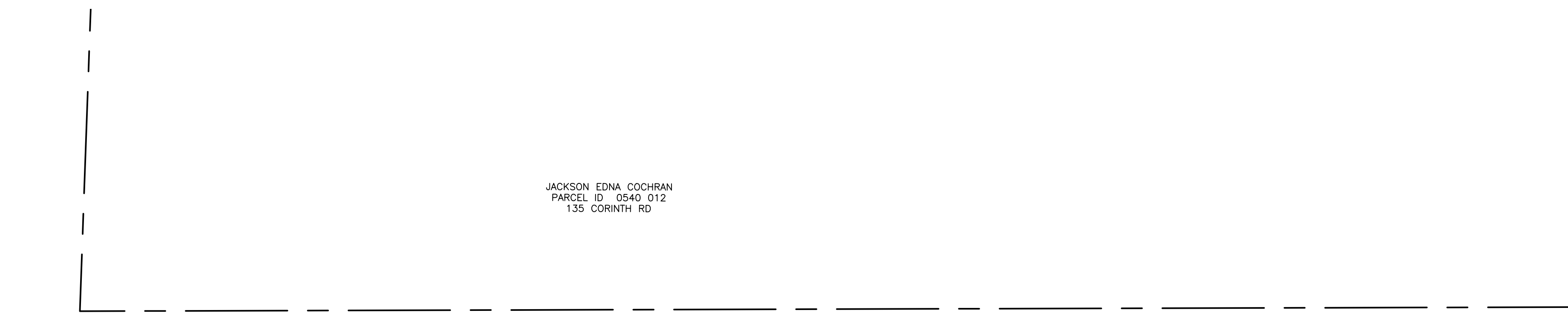
SHEET TITLE
**STORMWATER
 MANAGEMENT PLAN**

DRAWN BY ORG CHECKED BY SMM
 SCALE 1"=30' ISSUE DATE 04/01/2022

PROJECT NUMBER 1866.031
 DRAWING NUMBER
C-304
 SHEET 10 of 25

NOT ISSUED FOR CONSTRUCTION
 Drawing Location: "F:\Marietta\1866 Fayette County\1866\031 Task Order 02 - Fire and EMS Training Facility\Engineering\Design\1866\031_Design.dwg
 Plot Scale: 1"=30'
 Plot Style: Design.ctb
 Plotted By: Olivia Guajardo on 4/1/2022, 9:52 AM

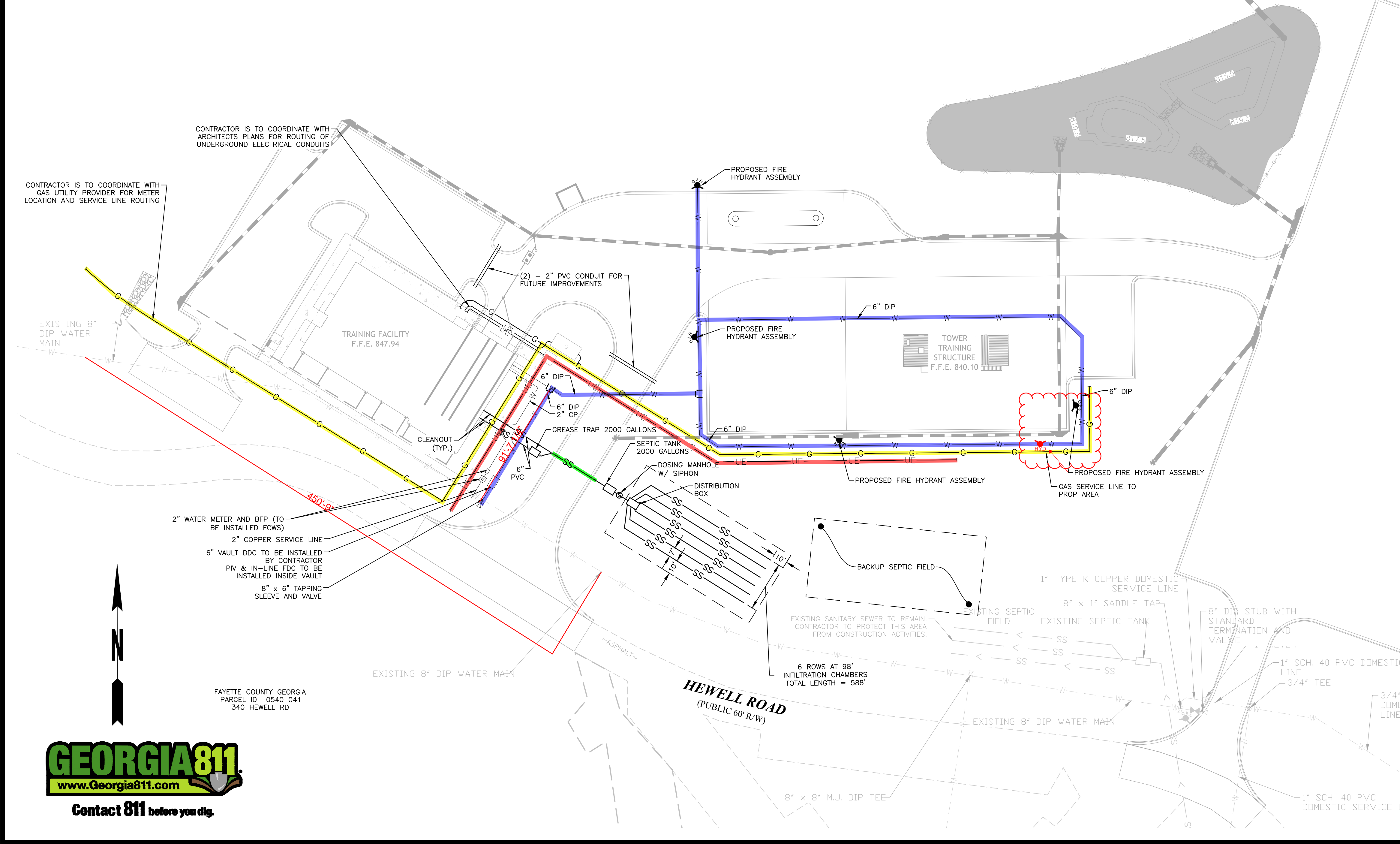
LEGEND	
EXISTING UTILITIES	
	EX WATER LINE
	EX FIRE HYDRANT
	EX WATER METER
	EX WATER VALVE
	EX SANITARY SEWER
	EX SS MANHOLE
	EX WATER VALVE
	EX UTIL POLE
PROPOSED UTILITIES	
	PROP. WATER LINE
	PROP. FIRE HYDRANT
	PROP. WATER METER
	PROP. TAPPING VALVE
	PROP. FDC
	PROP. SANITARY SEWER
	PROP. SS MANHOLE
	PROP. SS CLEANOUT
	PROP. UTIL POLE
	PROP. UG ELEC. LINE
	PROP. GAS SERVICE LINE



- ### WATER SYSTEM NOTES
1. WATER AND SEWER SOURCE IS THE FAYETTE COUNTY DEPARTMENT OF WATER AND SEWER.
 2. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL FINAL INSPECTIONS ARE COMPLETED BY FAYETTE COUNTY WATER AND SEWER DEPARTMENT.
 3. THE DEVELOPER OR DEVELOPER'S CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE EXACT LOCATION, SIZE, AND MATERIAL OF ANY EXISTING WATER AND SEWER FACILITY PROPOSED FOR CONNECTION OR USE BY THIS PROJECT. THE RELOCATION OF ANY WATER/SEWER FACILITY REQUIRED TO AVOID ANY PART OF THIS DEVELOPMENT IS THE RESPONSIBILITY OF THE DEVELOPER.
 4. THE OWNER/DEVELOPER IS RESPONSIBLE FOR FEES RELATED TO IMPACT FEES, METER FEES, AND INSTALLATION FEES.
 5. A FAYETTE COUNTY INSPECTOR IS TO BE PRESENT WHEN CONNECTING TO ANY EXISTING MAINS.
 6. NOTIFY FAYETTE COUNTY WATER AND SEWER DEPARTMENT 24 HOURS PRIOR TO ANY SEWER CONSTRUCTION AT (770) 461-1146 OPTION 5.
 7. ALL WORK AND MATERIALS TO CONFORM TO CURRENT FAYETTE COUNTY STANDARDS.
 8. NO DEVIATIONS FROM APPROVED DRAWINGS ARE ALLOWED WITHOUT APPROVAL FROM FAYETTE COUNTY DEPARTMENT OF WATER AND SEWER.
 9. THE DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF ALL INFRASTRUCTURE FOR A ONE YEAR PERIOD FOLLOWING FINAL PLAT.
 10. ALL WATER LINES SHALL BE DUCTILE IRON PIPE CLASS 50.
 11. WATER LINES SHALL HAVE 48" MINIMUM COVER.
 12. FIRE HYDRANTS ARE TO BE 3-WAY 5-1/4" TYPE.
 13. CONCRETE VALVE MARKERS ARE TO BE INSTALLED AT ALL VALVE TYPES EXCEPT AT FIRE HYDRANTS.
 14. CONCRETE BLOCKING SHALL BE PLACED AT ALL BENDS, TEES AND FITTINGS.
 15. 3000 PSI CURB STOPS, CORPS, AND WYES REQUIRED PER FAYETTE COUNTY STANDARDS.
 16. ALL VALVES SHALL BE GATE VALVES.
 17. GATE VALVES OVER 5' DEEP SHALL HAVE STEM EXTENSIONS.
 18. LINES ARE TO BE PRESSURE TESTED AND DISINFECTED PER COUNTY SPECIFICATIONS.
 19. ALL SITE DOMESTIC WATER SERVICE LESS THAN 4" DIAMETER SHALL BE TYPE "K" COPPER WITH SAND BED.
 20. THRUST BLOCKING SHALL BE USED AT ALL BENDS, PLUGS AND TEES FOR LINES 4" AND LARGER IN SIZE.

- ### BACKFLOW PREVENTOR NOTES
1. BACKFLOW DEVICES MUST BE INSTALLED AT EVERY WATER CONNECTION AND INSTALLATION MUST BE DONE PER CURRENT FAYETTE COUNTY STANDARDS.
 2. EVERY METER MUST HAVE AN ADEQUATE DEVICE. THIS INFORMATION CAN BE FOUND IN THE PLUMBING CODE BOOK.
 3. THE INSTALLATION MUST MEET THE REQUIREMENTS SET FORTH IN THE BACKFLOW PREVENTION POLICY AND PROCEDURE MANUAL WHICH CAN BE PURCHASED AT THE FAYETTE COUNTY WATER AND SEWER DEPARTMENT.

- ### SANITARY SEWER NOTES
1. THE DEVELOPER OR DEVELOPER'S CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE EXACT LOCATION, SIZE, AND MATERIAL OF ANY EXISTING WATER AND SEWER FACILITY PROPOSED FOR CONNECTION OR USE BY THIS PROJECT. THE RELOCATION OF ANY WATER/SEWER FACILITY REQUIRED TO AVOID ANY PART OF THIS DEVELOPMENT IS THE RESPONSIBILITY OF THE DEVELOPER.
 2. THE OWNER/DEVELOPER IS RESPONSIBLE FOR FEES RELATED TO IMPACT FEES, METER FEES, AND INSTALLATION FEES.
 3. A FAYETTE COUNTY INSPECTOR IS TO BE PRESENT WHEN CONNECTING TO ANY EXISTING MAINS.
 4. ALL MANHOLES REQUIRE "KOR-N-SEAL" OR EQUAL RUBBER BOOT.
 5. ALL WORK AND MATERIALS TO CONFORM TO CURRENT FAYETTE COUNTY STANDARDS.
 6. NO DEVIATIONS FROM APPROVED DRAWINGS ARE ALLOWED WITHOUT APPROVAL FROM FAYETTE COUNTY DEPARTMENT OF WATER AND SEWER.
 7. ALL MANHOLES OUTSIDE OF PAVEMENT SHALL BE 2' ABOVE GRADE WITH BOLT-DOWN WATER-TIGHT COVERS.
 8. SEWER LATERALS SHALL BE OF SAME MATERIAL AS SEWER MAIN.
 9. SEWER LATERALS SHALL BE INSTALLED WITH 6" CLEAN-OUT, STUBBED UP 5' ABOVE GRADE AND CAPPED UNLESS LOCATED IN PAVING OR SIDEWALK.
 10. NO FENCES, STRUCTURES, TREES OR OTHER OBSTRUCTIONS ARE ALLOWED ON SANITARY SEWER EASEMENTS.
 11. SEWER LINES ARE TO BE TESTED PER COUNTY SPECIFICATIONS PRIOR TO FINAL PLAT.
 12. THE DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF ALL INFRASTRUCTURE FOR A ONE YEAR PERIOD FOLLOWING FINAL PLAT.
 13. 16' IS MAXIMUM DEPTH FOR PVC SEWER, ANY PIPE EXCEEDING 16', WHETHER OR NOT SHOWN ON PLANS, MUST BE INSTALLED AS D.I.P.
- 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.
- 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.



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

SCALE IN FEET

CROY
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

NO.	REVISION REFERENCE	DATE

SEAL

GSWCC CERT #78081

SHEET TITLE
UTILITY PLAN

DRAWN BY ORG	CHECKED BY SMM
SCALE 1"=40'	ISSUE DATE 04/01/2022
PROJECT NUMBER 1866.031	
DRAWING NUMBER C-400	
SHEET 11 of 25	

GEORGIA811
www.Georgia811.com
Contact 811 before you dig.

NOT ISSUED FOR CONSTRUCTION

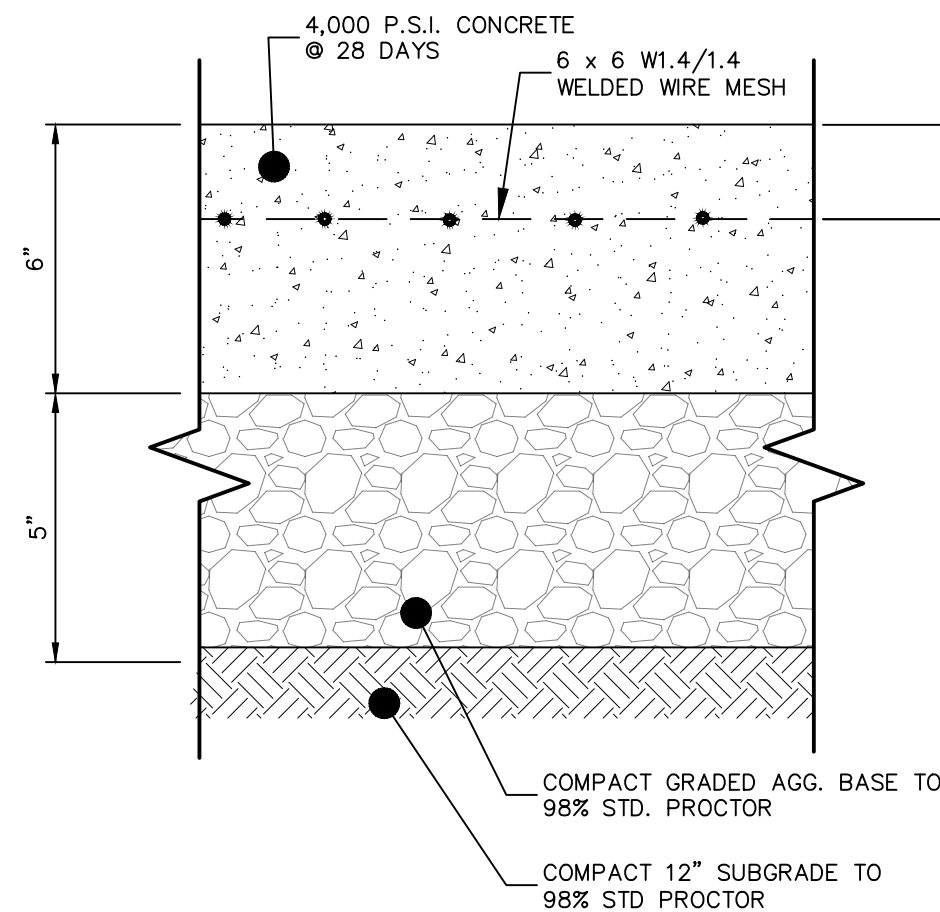
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D	REINFORCEMENT	T (INCHES) (INITIAL SAW CUT)	DOWEL BARS
6"	6x6 W1.4/1.4	1.5"	1"x16" @ 12" O.C.
8"	6x6 W1.4/1.4	2.0"	1"x16" @ 12" O.C.

NOTES

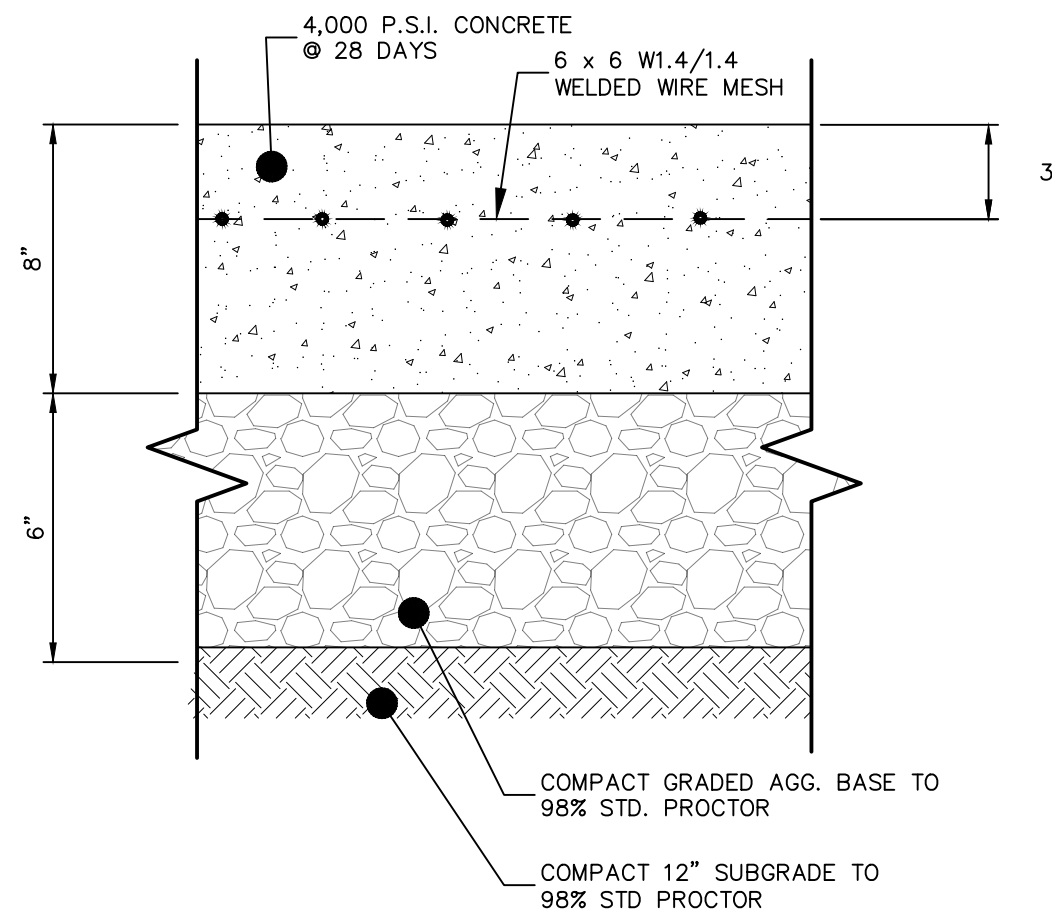
- CONCRETE TO BE 4,000 PSI AT 28 DAYS
- WELDED WIRE MESH SHALL MEET THE REQUIREMENTS OF ASTM F2453, CURRENT EDITION
- DOWEL BARS
- REINFORCEMENT BARS SHALL BE GRADE 60 MEETING THE REQUIREMENTS OF ASTM A615-81.
- JOINT SEALANT
- CONTRACTOR TO SUBMIT THE FOLLOWING FOR APPROVAL:
 - CONCRETE MIX DESIGN
 - ALL REINFORCEMENT MATERIAL
 - ALL JOINT MATERIAL
 - JOINT LAYOUT
- DOWELS TO BE PLACED AT D/2
- CONTRACTOR IS TO SUBMIT CONCRETE MIX DESIGN FOR APPROVAL.
- CONTRACTOR IS TO PREPARE AND SUBMIT FOR APPROVAL ALL MATERIAL FOR CONCRETE JOINTS.

DETAIL TABLE



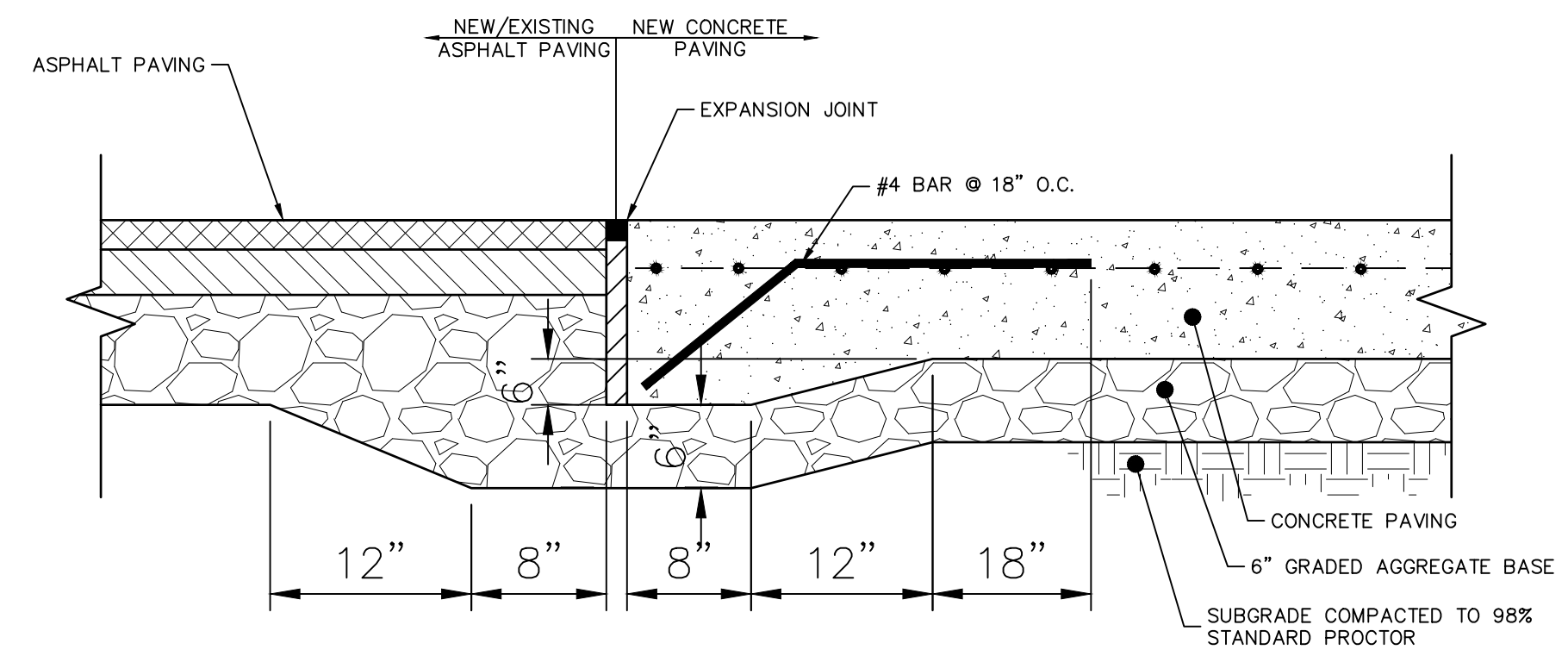
LIGHT DUTY PAVEMENT

SCALE: N.T.S.



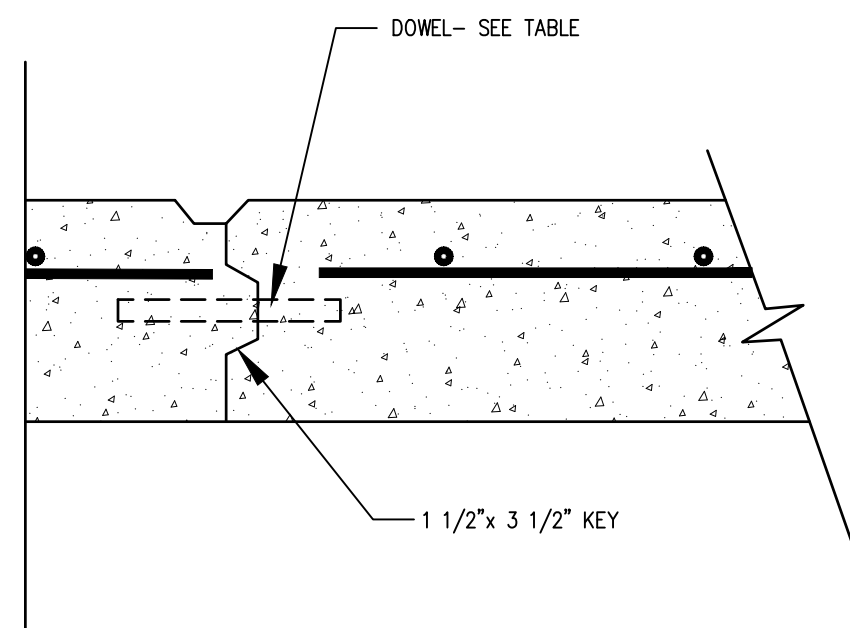
HEAVY DUTY PAVEMENT

SCALE: N.T.S.



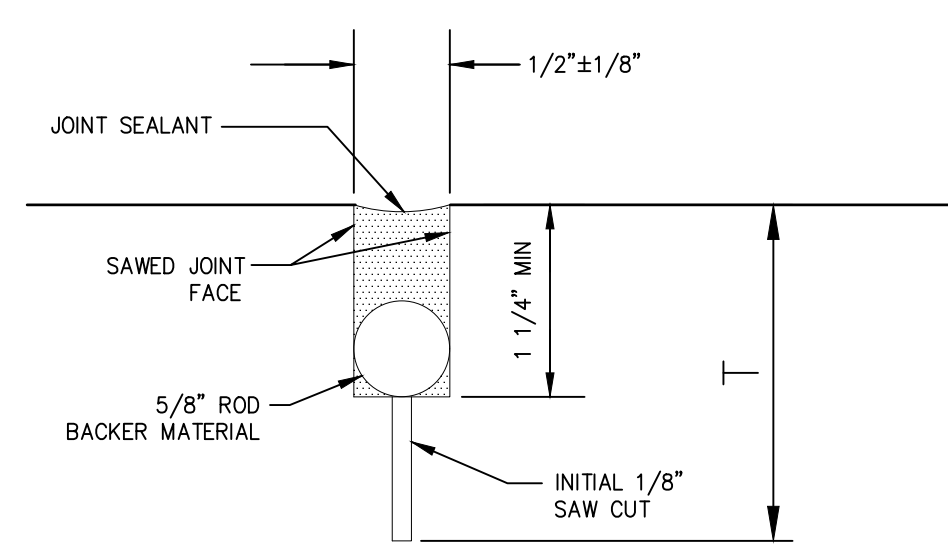
CONCRETE/ASPHALT TRANSITION DETAIL

SCALE: N.T.S.



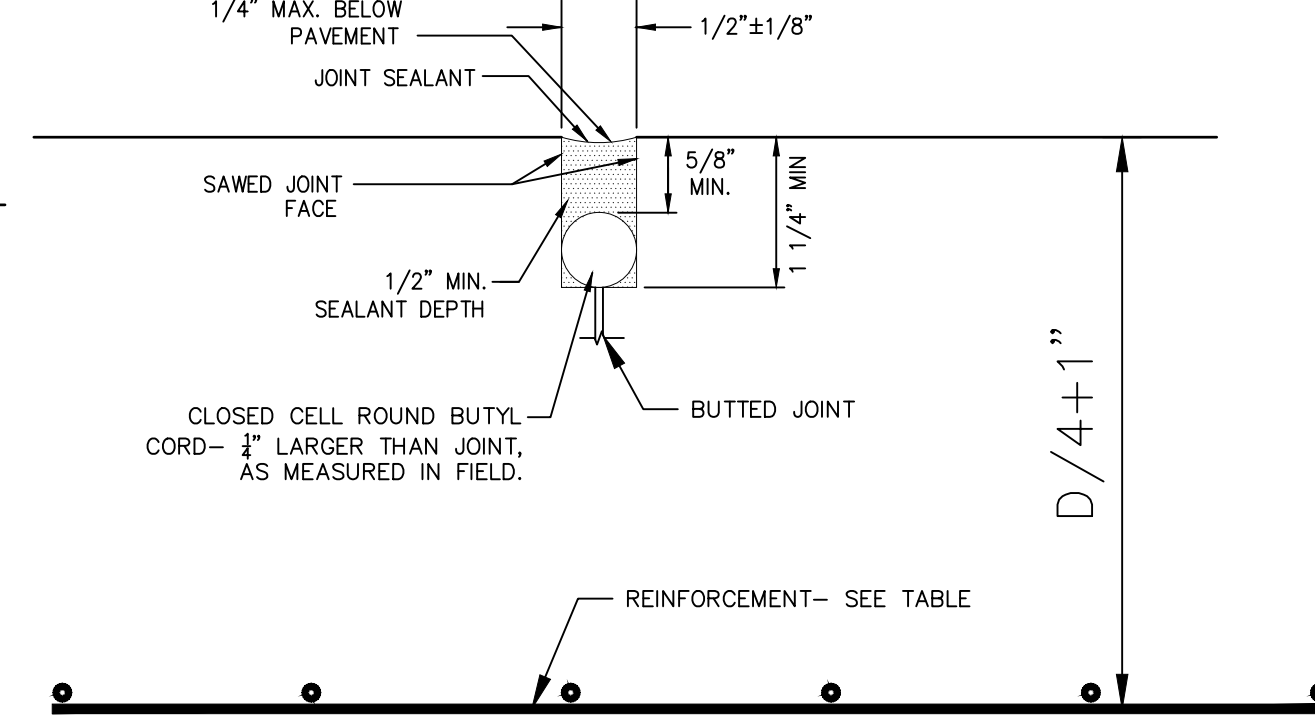
KEYED CONSTRUCTION JOINT

SCALE: N.T.S.



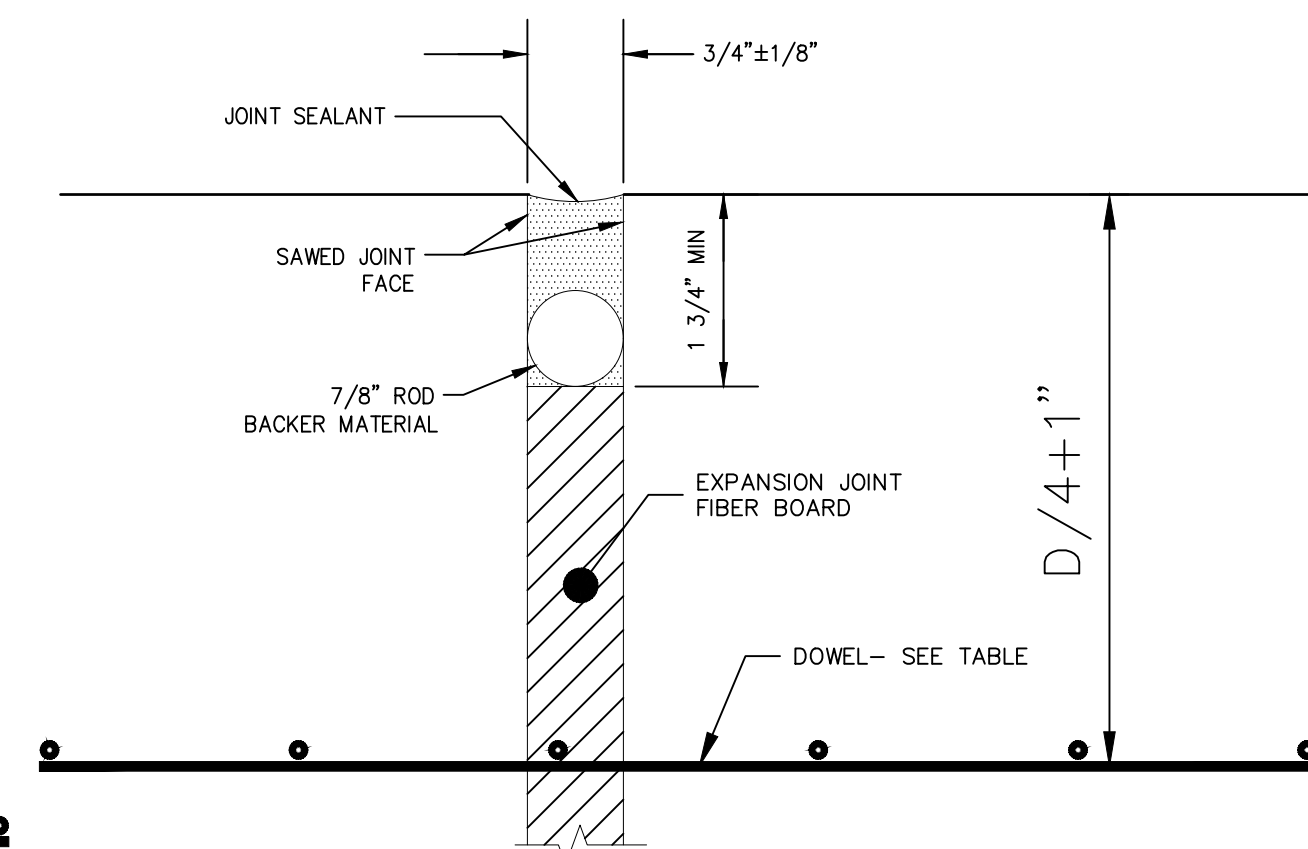
CONTRACTION JOINT (CJ)

SCALE: N.T.S.



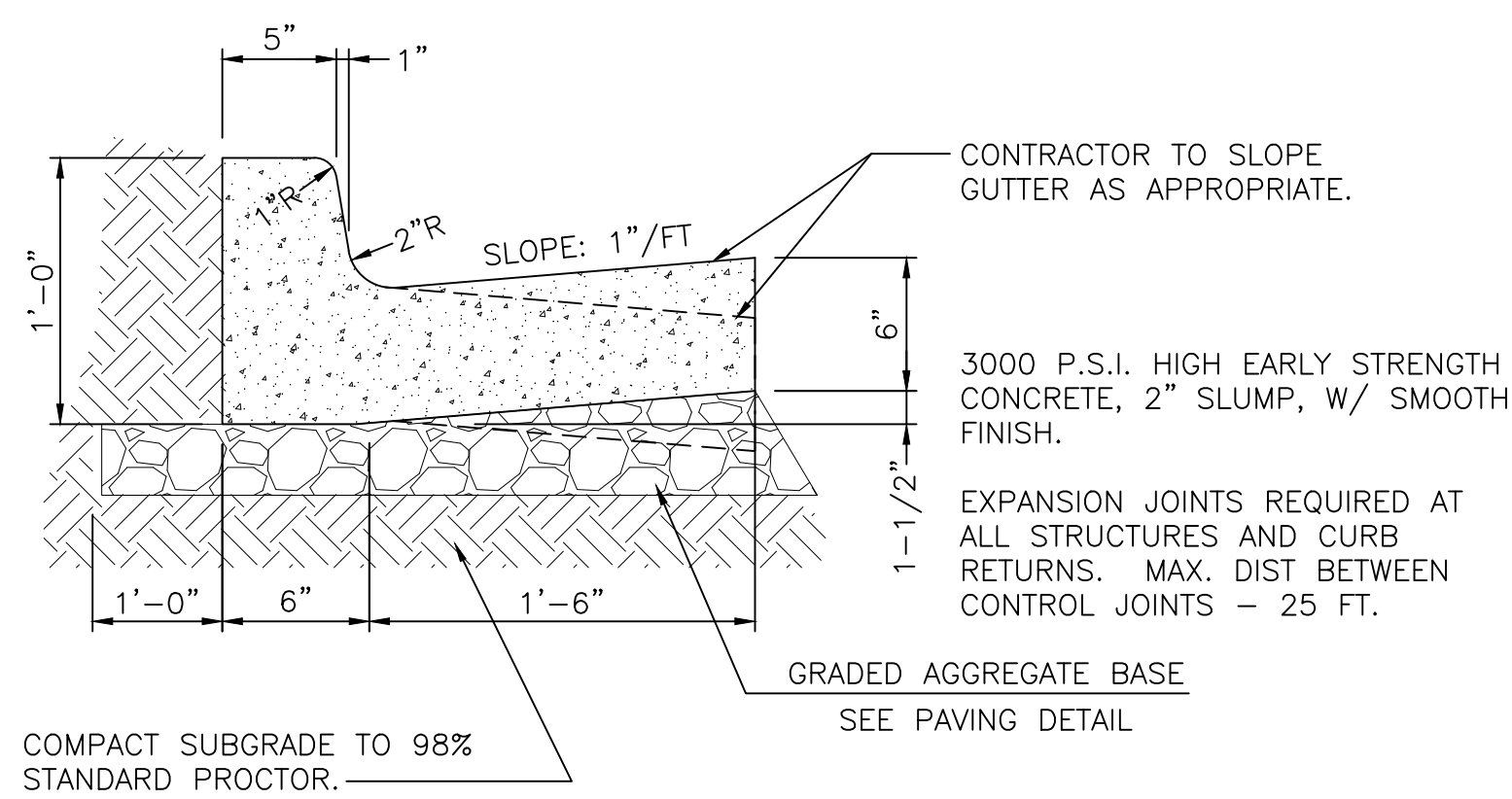
CONSTRUCTION JOINT (CRJ)

SCALE: N.T.S.



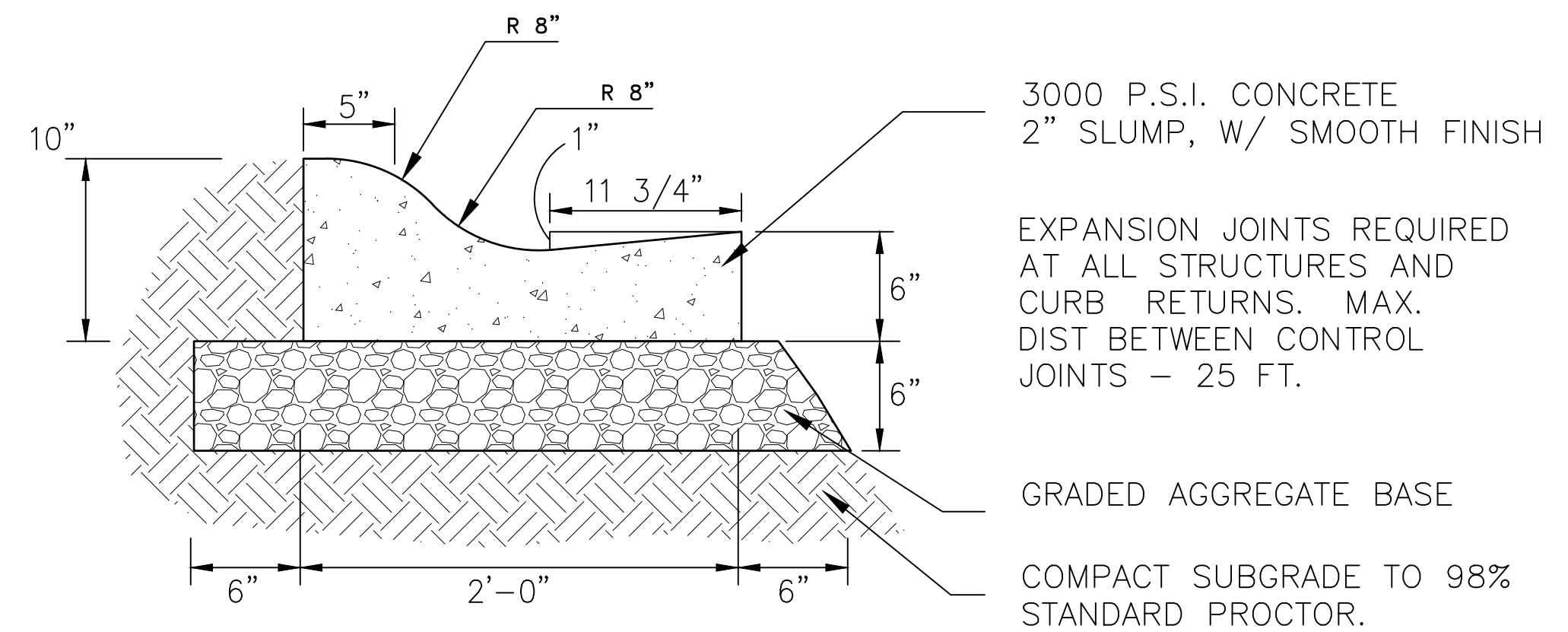
EXPANSION JOINT (EJ)

SCALE: N.T.S.



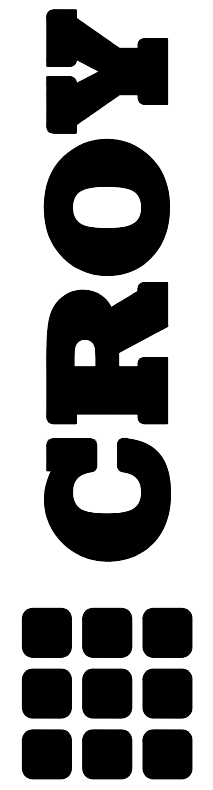
24" CONCRETE CURB & GUTTER

SCALE: N.T.S.



24" CONCRETE ROLL TOP CURB

SCALE: N.T.S.



200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
MARIETTA, GA 30062
PHONE: (770) 971-5407 FAX: (770) 971-0620
ENGINEERING, ARCHITECTURE, INTERIOR DESIGN, LANDSCAPE ARCHITECTURE, PLANNING, SURVEYING, ENVIRONMENTAL ENGINEERING, AND CONSTRUCTION MANAGEMENT SERVICES

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



GSWCC CERT #78081

SHEET TITLE
CONSTRUCTION
DETAILS

DRAWN BY ORG	CHECKED BY SMM
SCALE N/A	ISSUE DATE 04/01/2022

PROJECT NUMBER
1866.031

DRAWING NUMBER
C-500
SHEET 13 of 25

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 "W _d " (ft)	Stone Depth "D" (ft)	Width at the Headwall "W _h " (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

BASIN NAME	DRAINAGE AREA		DISTURBED AREA		SEDIMENT STORAGE (CY)		SILT FENCE		Sd2-EX	
	SF	AC	SF	AC	REQ'D SEDIMENT STORAGE	SEDIMENT STORAGE 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	
	Acres	Depth (ft)	Length (ft)	Width (ft)	yd 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
Totals	5.45				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 BY 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 (q).

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 ER-400-401.

STRUCTURAL BMP LEGEND

Co		CONSTRUCTION EXIT
Cd-S		CHECK DAM - STONE
Sd1-S		DOUBLE ROW SILT FENCE - TYPE SENSITIVE WITH MULCH BERMS IN BETWEEN
Sd2-F		INLET SEDIMENT TRAP - FILTER FABRIC WITH SUPPORTING FRAME
Sd2-1		EXCAVATED INLET SEDIMENT TRAP
St		STORM DRAIN OUTLET PROTECTION

VEGETATIVE BMP LEGEND

Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
Ss	SLOPE STABILIZATION

NO. REVISION REFERENCE DATE

SEAL

GSWCC CERT #78081

SHEET TITLE
EROSION CONTROL
PLAN - INTERMEDIATE
PHASE

DRAWN BY: ORG
CHECKED BY: SMM

SCALE: 1"=50'
ISSUE DATE: 04/01/2022

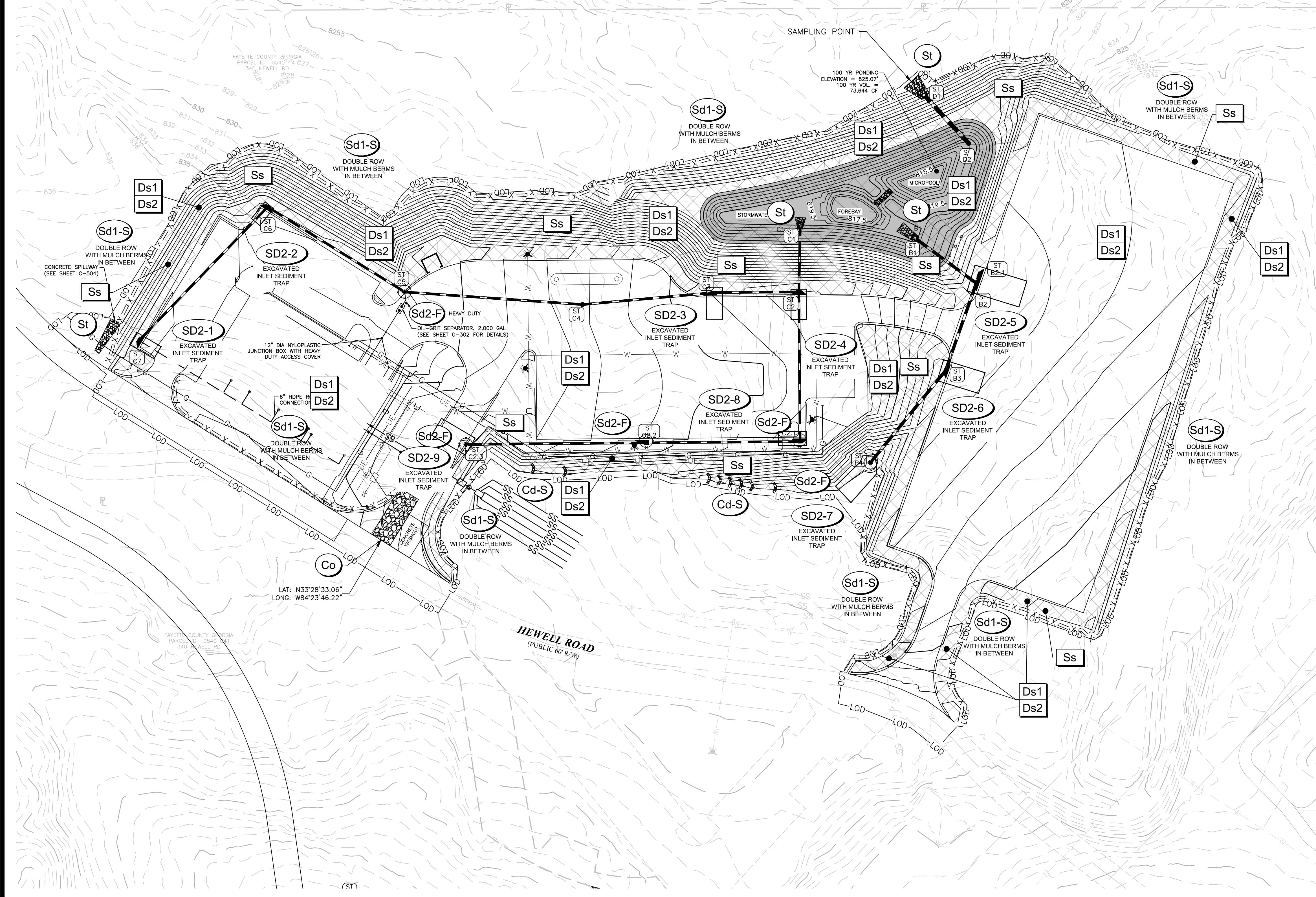
PROJECT NUMBER: 1866.031
DRAWING NUMBER: ER-200

SHEET 22 of 25

INTERMEDIATE PHASE
DISTURBED AREA:
8.3 ACRES

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

50 0 50 100 150
SCALE IN FEET



CROY

200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
MARIETTA, GA 30062
PHONE: (770) 971-5407 FAX: (770) 971-0820

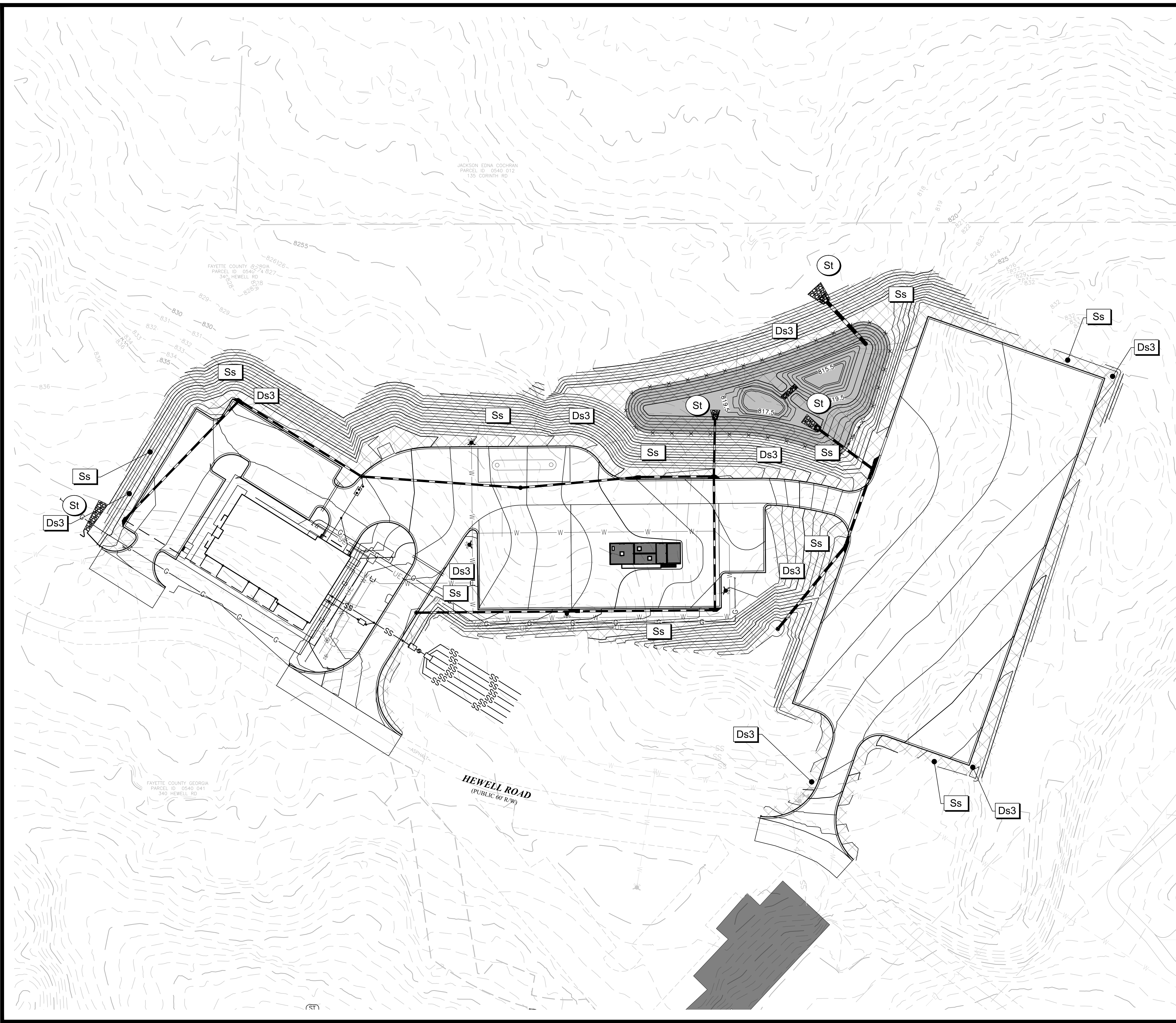
FAYETTE COUNTY FIRE & EMS TRAINING FACILITY

DESIGN PHASE

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

NOT ISSUED FOR CONSTRUCTION

Drawing Location: "F:\Marietta\1866 Fayette County\1866\031 Task Order 02 - Fire and EMS Training Facility\Engineering\Design\1866\031_Erosion.dwg
Plot Scale: 1"=50' Plot Style: Design.ctb, Plotted By: Olivia Galarza on 4/1/2022, 9:45 AM



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 FALLING 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.

FINAL PHASE NARRATIVE:

ONCE THE GRADING IS COMPLETE ACCUMULATED SEDIMENT FROM BMPs 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, PER APPENDIX 1, (v).

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 ER-400-401.

STRUCTURAL BMP LEGEND

St STORM DRAIN OUTLET PROTECTION

VEGETATIVE BMP LEGEND

Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING)

Ss SLOPE STABILIZATION



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

NO.	REVISION REFERENCE	DATE



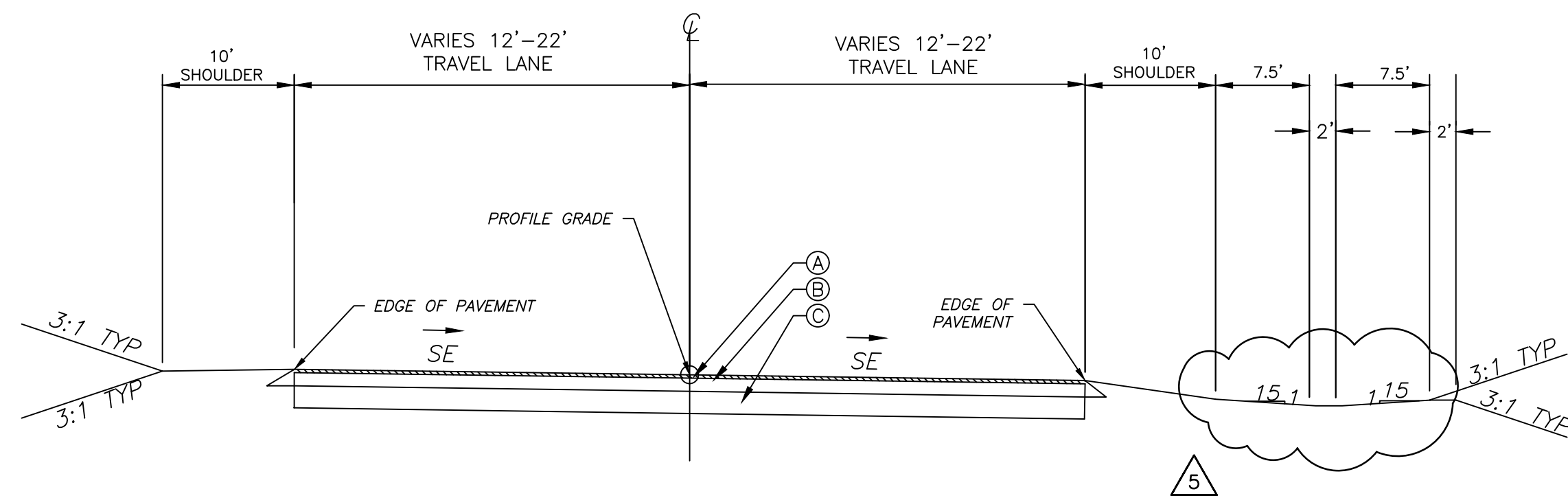
GSWCC CERT #78081
SHEET TITLE
EROSION CONTROL PLAN - FINAL PHASE

DRAWN BY ORG	CHECKED BY SMM
SCALE 1"=50'	ISSUE DATE 04/01/2022

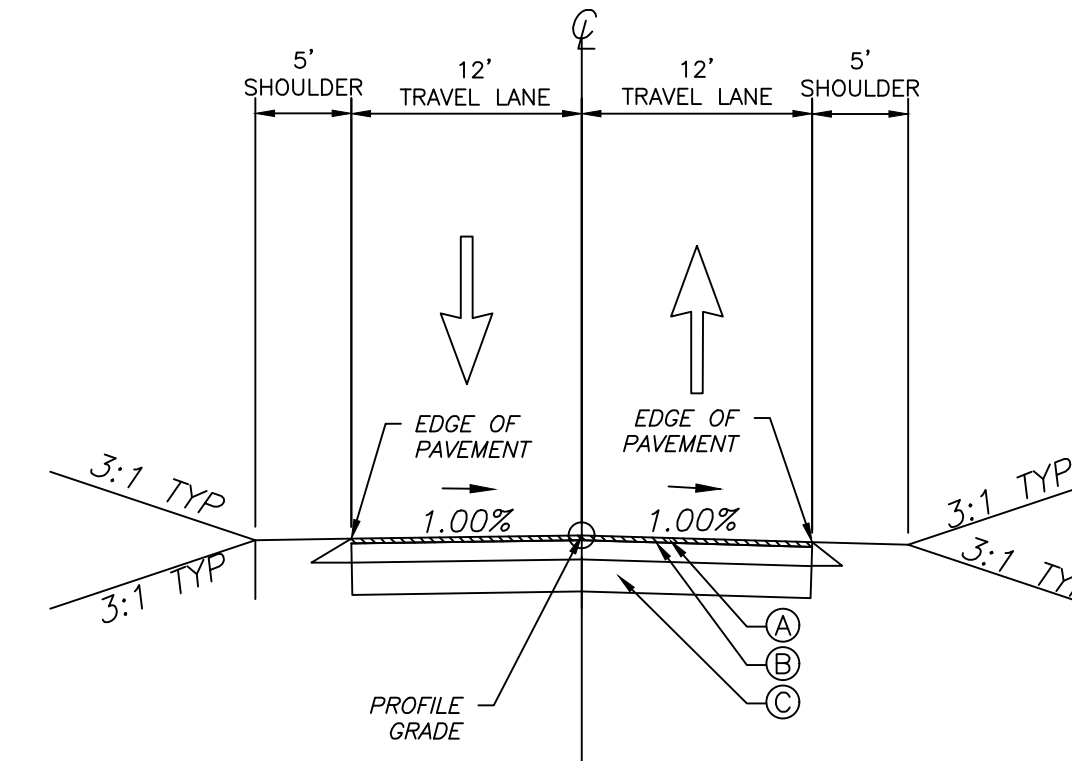
PROJECT NUMBER
1866.031
DRAWING NUMBER
ER-300
SHEET 23 of 25

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

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SCALE IN FEET

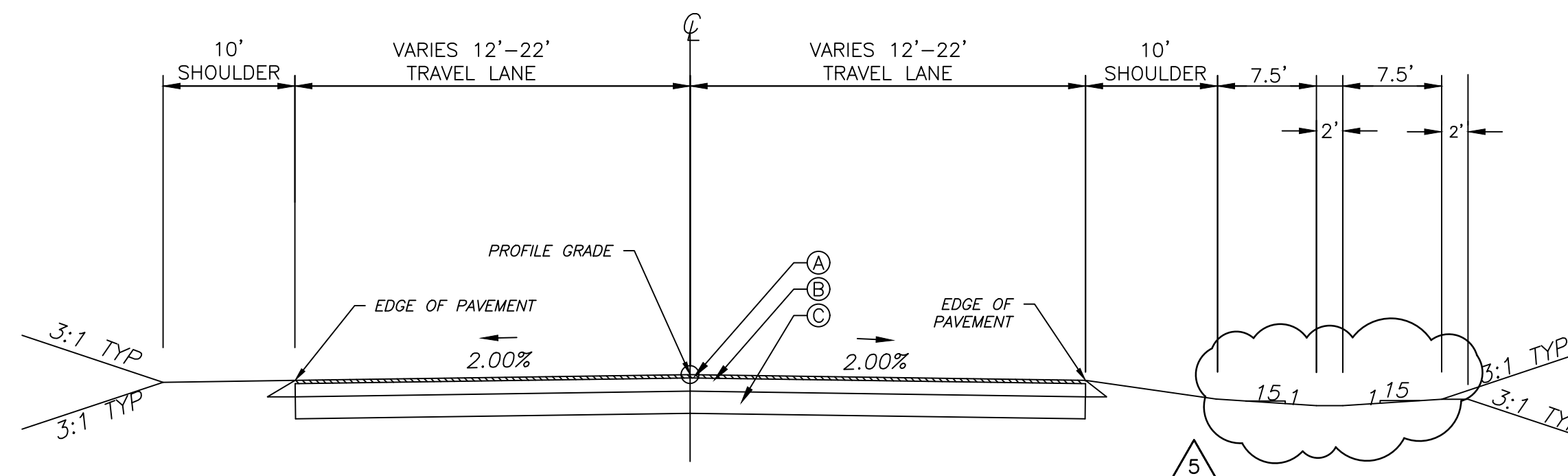


TYPICAL SECTION #1
TACTICAL TRAINING TRACK
STA. 200+00.00 TO STA. 250+00.76



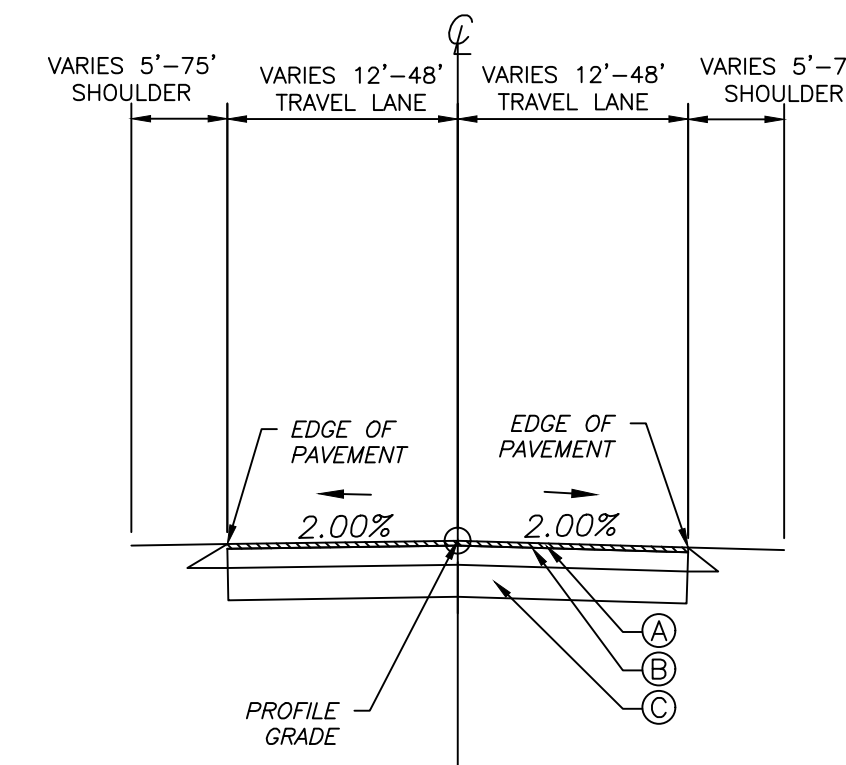
TYPICAL SECTION #4
HEWELL ROAD
STA. 100+00.00 TO STA. 115+00.00

NOTE: CONTRACTORS REFER TO GDOT STANDARD SPECIFICATIONS CONSTRUCTION OF TRANSPORTATION SYSTEMS, LATEST EDITION.

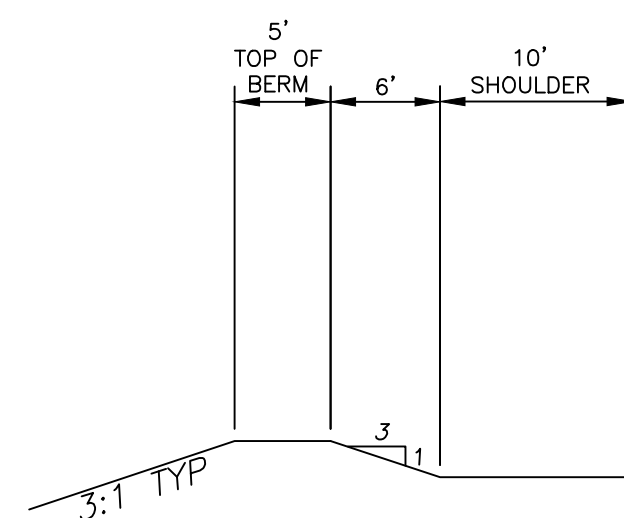


TYPICAL SECTION #2
TACTICAL TRAINING TRACK
STA. 200+00.00 TO STA. 250+00.76

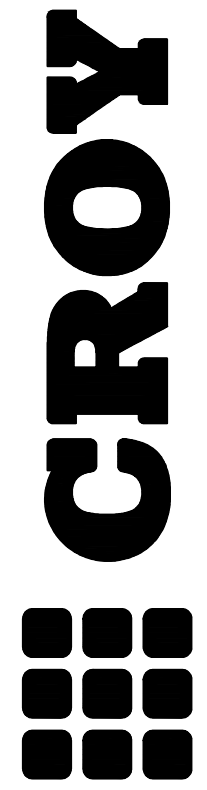
- (A) 1.5" RECYCLED ASPHALTIC CONCRETE 12.5mm SUPERPAVE, INCL BITUM MATL & H LIME (165 LB/SY)
- (B) 3" RECYCLED ASPHALTIC CONCRETE 19 mm SUPERPAVE, INCL BITUM MATL & H LIME (220 LB/SY)
- (C) 8" GRADED AGGREGATE BASE



TYPICAL SECTION #5
INTERIOR AND LOOP TRACK
STA. 300+00.00 TO STA. 325+45.00
STA. 400+00.00 TO STA. 410+58.00



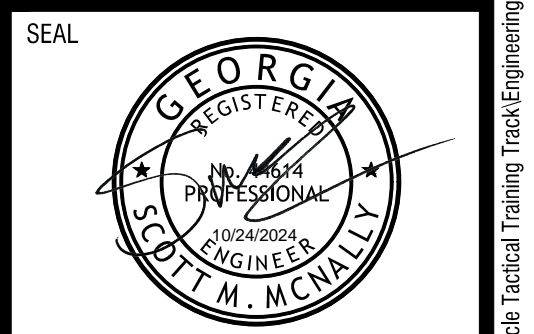
TYPICAL SECTION #3
BERM
STA. 227+49.14 TO STA. 243+13.54



200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
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FAYETTE COUNTY SHERIFF
VEHICLE TACTICAL TRAINING FACILITY
LAND LOT(S) 172
OF THE 5TH DISTRICT, 5TH SECTION
FAYETTE COUNTY, GEORGIA

NO.	REVISION REFERENCE	DATE
05	TYPICAL SECTION REVISION	10/24/2022
04	INTERIOR TRACK	10/15/2022



GSWCC CERT #78081

SHEET TITLE
TYPICALS

DRAWN BY ORG	CHECKED BY SMM
SCALE NTS	ISSUE DATE 04/01/2022

PROJECT NUMBER
1866.033
DRAWING NUMBER

C-215
SHEET 18 of 37

24 HOUR CONTACT:
BARRY BABB
TEL: (770)- 706-4800