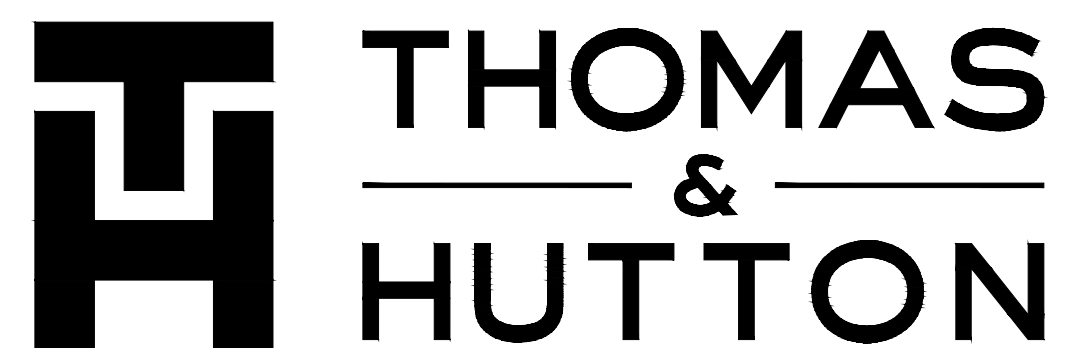


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JDA STANTON SPRINGS
ANDREA GRAY
300 E CHURCH STREET
MONROE, GA 30655
ANDREA@ANDREAPGRAY.COM

J-26900.0015

PREPARED BY:



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J-28900.0013
05/12/2026

Sheet Number	Sheet Title
C0	COVER SHEET
C1.1	EXISTING CONDITIONS - OVERALL SITE
EC0.1	EROSION CONTROL NOTES
EC0.2	EROSION CONTROL NOTES
EC0.3	EROSION CONTROL NOTES
EC1.1	EROSION CONTROL PLAN - INITIAL PHASE
EC1.2	EROSION CONTROL PLAN - INITIAL PHASE
EC2.1	EROSION CONTROL PLAN - CONSTRUCTION - FINAL PHASE
EC2.2	EROSION CONTROL PLAN - CONSTRUCTION - FINAL PHASE
EC4.1	EROSION CONTROL DETAILS
EC4.2	EROSION CONTROL DETAILS
EC4.3	EROSION CONTROL DETAILS
EC4.4	EROSION CONTROL DETAILS
EC4.5	EROSION CONTROL DETAILS
C3.1	GRADING AND DRAINAGE PLAN AND PROFILE
C3.2	GRADING AND DRAINAGE PLAN
C3.3	GRADING AND DRAINAGE DETAILS

REVISION HISTORY			
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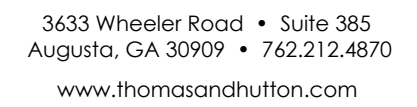
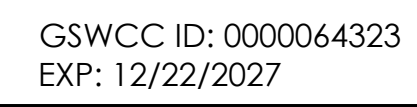
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ESPC GRADING PLAN
MOORE TRACT

CLIENT/OWNER:
JDA STANTON SPRINGS
ANDREA GRAY
300 E CHURCH STREET
MONROE, GA 30655
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JOB NO: 24800.0015

C1.1

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EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
DISTURBED AREA STABILIZATION (MULCHING ONLY)	Ds1
DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)	Ds2
DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)	Ds3
DUST CONTROL	Du
COMPOST FILTER SOCK	Cd-Fs
CONSTRUCTION EXIT	Co
DIVERSION	Di
DOWNDRAIN STRUCTURES (TEMPORARY)	Dn1
ROCK FILTER DAM	Rd
SILT FENCE - TYPE S	Sd1-S
TEMPORARY SEDIMENT BASIN	Sd3
TEMPORARY SEDIMENT TRAP	Sd4
FLOATING SURFACE SKIMMER	Sk
STORM DRAIN OUTLET PROTECTION	St

SOIL SERIES LEGEND

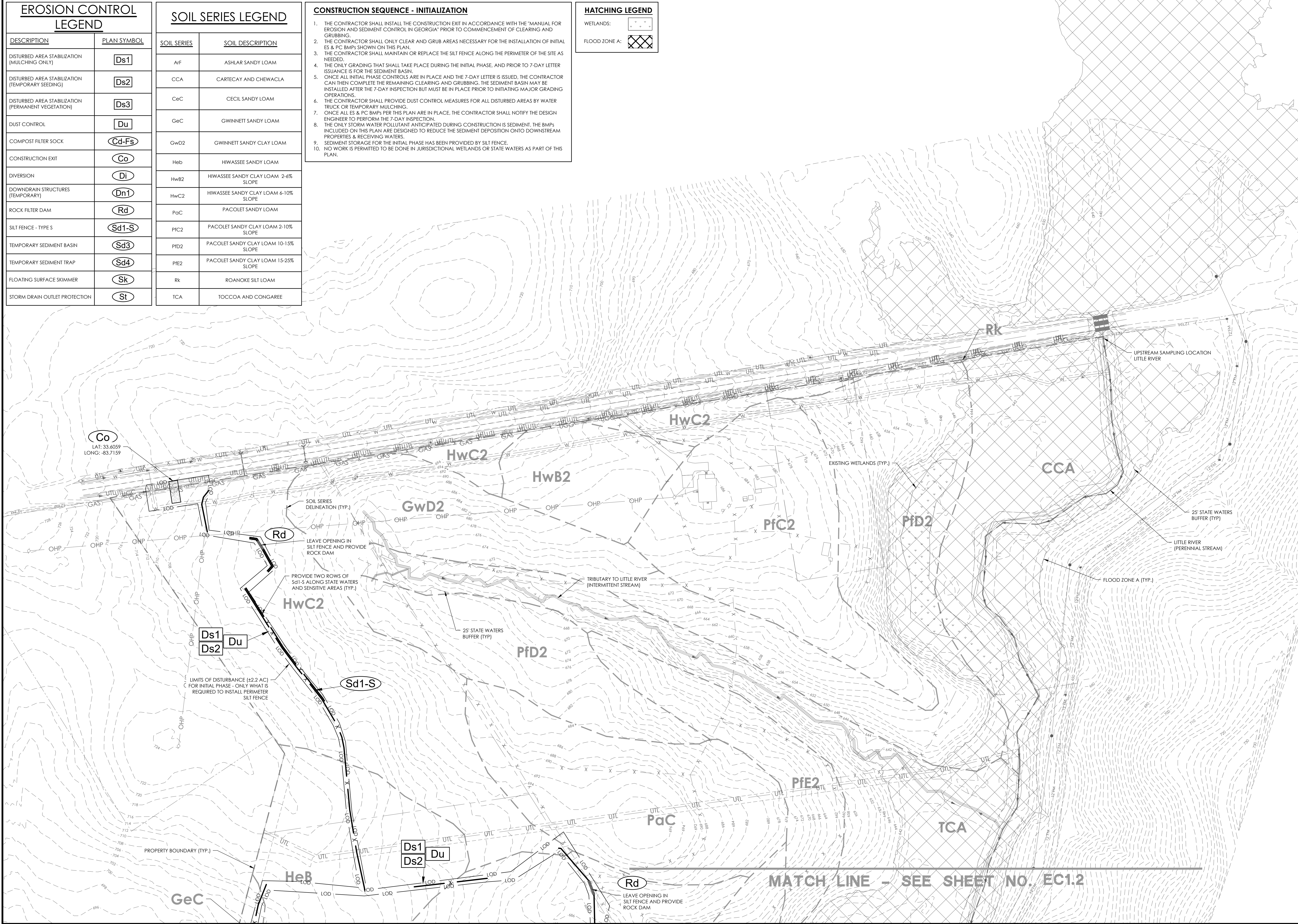
SOIL SERIES	SOIL DESCRIPTION
AfF	ASHLAR SANDY LOAM
CCA	CARTECAY AND CHEWACLA
CeC	CECIL SANDY LOAM
GeC	GWINNETT SANDY LOAM
GwD2	GWINNETT SANDY CLAY LOAM
Heb	HIWASSEE SANDY LOAM
Hwb2	HIWASSEE SANDY CLAY LOAM 2-6% SLOPE
HwC2	HIWASSEE SANDY CLAY LOAM 6-10% SLOPE
PaC	PACOLET SANDY LOAM
PfC2	PACOLET SANDY CLAY LOAM 2-10% SLOPE
PfD2	PACOLET SANDY CLAY LOAM 10-15% SLOPE
PfE2	PACOLET SANDY CLAY LOAM 15-25% SLOPE
Rk	ROANOKE SILT LOAM
TCA	TOCCOA AND CONGAREE

CONSTRUCTION SEQUENCE - INITIALIZATION

1. THE CONTRACTOR SHALL INSTALL THE CONSTRUCTION EXIT IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PRIOR TO COMMENCEMENT OF CLEARING AND GRUBBING.
2. THE CONTRACTOR SHALL ONLY CLEAR AND GRUB AREAS NECESSARY FOR THE INSTALLATION OF INITIAL ES & PC BMPs SHOWN ON THIS PLAN.
3. THE CONTRACTOR SHALL MAINTAIN OR REPLACE THE SILT FENCE ALONG THE PERIMETER OF THE SITE AS NEEDED.
4. THE ONLY GRADING THAT SHALL TAKE PLACE DURING THE INITIAL PHASE, AND PRIOR TO 7-DAY LETTER ISSUANCE IS FOR THE SEDIMENT BASIN.
5. ONCE ALL INITIAL PHASE CONTROLS ARE IN PLACE AND THE 7-DAY LETTER IS ISSUED, THE CONTRACTOR CAN THEN COMPLETE THE REMAINING CLEARING AND GRUBBING. THE SEDIMENT BASIN MAY BE INSTALLED AFTER THE 7-DAY INSPECTION BUT MUST BE IN PLACE PRIOR TO INITIATING MAJOR GRADING OPERATIONS.
6. THE CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES FOR ALL DISTURBED AREAS BY WATER TRUCK OR TEMPORARY MULCHING.
7. ONCE ALL ES & PC BMPs PER THIS PLAN ARE IN PLACE, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER TO PERFORM THE 7-DAY INSPECTION.
8. THE ONLY STORM WATER POLLUTANT ANTICIPATED DURING CONSTRUCTION IS SEDIMENT. THE BMPs INCLUDED ON THIS PLAN ARE DESIGNED TO REDUCE THE SEDIMENT DEPOSITION ONTO DOWNSTREAM PROPERTIES & RECEIVING WATERS.
9. SEDIMENT STORAGE FOR THE INITIAL PHASE HAS BEEN PROVIDED BY SILT FENCE.
10. NO WORK IS PERMITTED TO BE DONE IN JURISDICTIONAL WETLANDS OR STATE WATERS AS PART OF THIS PLAN.

HATCHING LEGEND

- WETLANDS: 
- FLOOD ZONE A: 



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NO.	REVISIONS	BY	DATE



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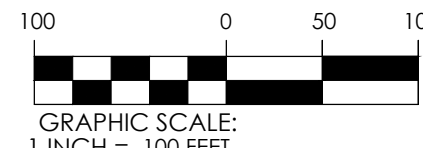
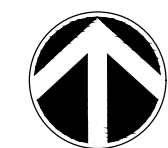
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EROSION CONTROL PLAN - INITIAL PHASE

ESPC GRADING PLAN
MOORE TRACT

PROJECT LOCATION:
13924 HWY 278
SOCIAL CIRCLE, GA 30025

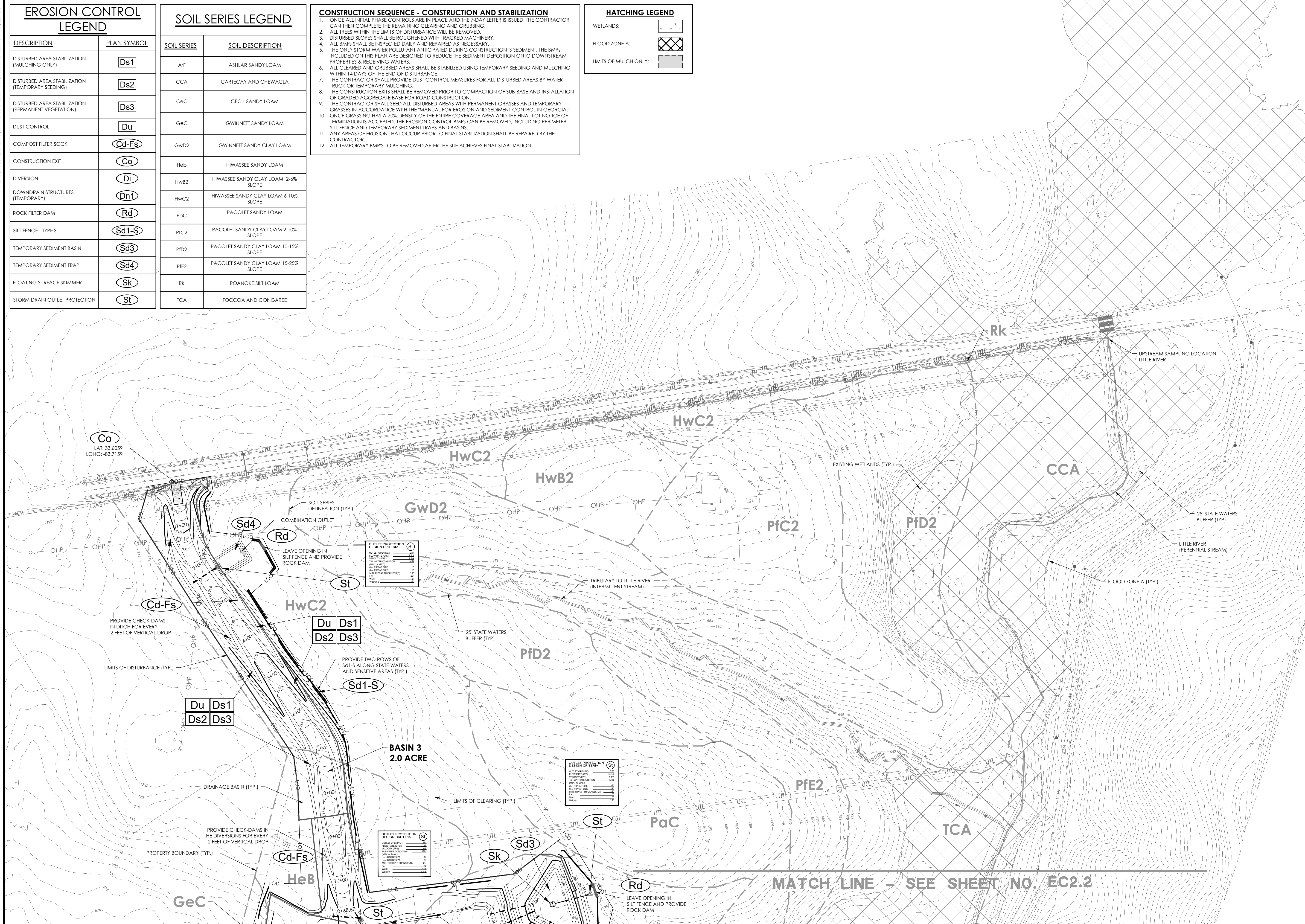
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ANDREA GRAY
300 E CHURCH STREET
MONROE, GA 30655
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DATUM: HORIZ.: NAD-83 GAW VERT.: NAVD 88

JOB NO: 26900.0015
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DESIGNED: ZR
REVIEWED: DG
APPROVED: WHE
SCALE: 1" = 100'

EC1.1



EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
DISTURBED AREA STABILIZATION (MULCHING ONLY)	Ds1
DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)	Ds2
DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)	Ds3
DUST CONTROL	Du
COMPOST FILTER SOCK	Cd-Fs
CONSTRUCTION EXIT	Co
DIVERSION	Di
DOWNDRAIN STRUCTURES (TEMPORARY)	Dn1
ROCK FILTER DAM	Rd
SILT FENCE - TYPE S	Sd1-S
TEMPORARY SEDIMENT BASIN	Sd3
TEMPORARY SEDIMENT TRAP	Sd4
FLOATING SURFACE SKIMMER	Sk
STORM DRAIN OUTLET PROTECTION	St

SOIL SERIES LEGEND

SOIL SERIES	SOIL DESCRIPTION
Arf	ASHLAR SANDY LOAM
CCA	CARTECAY AND CHEWACLA
CeC	CECIL SANDY LOAM
GeC	GWINNETT SANDY LOAM
GwD2	GWINNETT SANDY CLAY LOAM
Hwb	HIWASSEE SANDY LOAM
Hwb2	HIWASSEE SANDY CLAY LOAM 2-6% SLOPE
Hwc2	HIWASSEE SANDY CLAY LOAM 6-10% SLOPE
PaC	PACOLET SANDY LOAM
PIC2	PACOLET SANDY CLAY LOAM 2-10% SLOPE
PID2	PACOLET SANDY CLAY LOAM 10-15% SLOPE
PIE2	PACOLET SANDY CLAY LOAM 15-25% SLOPE
Rk	ROANOKE SILT LOAM
TCA	TOCCOA AND CONGAREE

CONSTRUCTION SEQUENCE - CONSTRUCTION AND STABILIZATION

1. ONCE ALL INITIAL PHASE CONTROLS ARE IN PLACE AND THE 7-DAY LETTER IS ISSUED, THE CONTRACTOR CAN THEN COMPLETE THE REMAINING CLEARING AND GRUBBING.
2. ALL TREES WITHIN THE LIMITS OF DISTURBANCE WILL BE REMOVED.
3. DISTURBED SLOPES SHALL BE ROUGHENED WITH TRACKED MACHINERY.
4. ALL BMPs SHALL BE INSPECTED DAILY AND REPAIRED AS NECESSARY.
5. THE ONLY STORM WATER POLLUTANT ANTICIPATED DURING CONSTRUCTION IS SEDIMENT. THE BMPs INCLUDED ON THIS PLAN ARE DESIGNED TO REDUCE THE SEDIMENT DEPOSITION ONTO DOWNSTREAM PROPERTIES & RECEIVING WATERS.
6. ALL CLEARED AND GRUBBED AREAS SHALL BE STABILIZED USING TEMPORARY SEEDING AND MULCHING WITHIN 14 DAYS OF THE END OF DISTURBANCE.
7. THE CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES FOR ALL DISTURBED AREAS BY WATER TRUCK OR TEMPORARY MULCHING.
8. THE CONSTRUCTION EXITS SHALL BE REMOVED PRIOR TO COMPACTION OF SUB-BASE AND INSTALLATION OF GRADED AGGREGATE BASE FOR ROAD CONSTRUCTION.
9. THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITH PERMANENT GRASSES AND TEMPORARY GRASSES IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA."
10. ONCE GRASSING HAS A 70% DENSITY OF THE ENTIRE COVERAGE AREA AND THE FINAL LOT NOTICE OF TERMINATION IS ACCEPTED, THE EROSION CONTROL BMPs CAN BE REMOVED, INCLUDING PERIMETER SILT FENCE AND TEMPORARY SEDIMENT TRAPS AND BASINS.
11. ANY AREAS OF EROSION THAT OCCUR PRIOR TO FINAL STABILIZATION SHALL BE REPAIRED BY THE CONTRACTOR.
12. ALL TEMPORARY BMPs TO BE REMOVED AFTER THE SITE ACHIEVES FINAL STABILIZATION.

HATCHING LEGEND

WETLANDS:



FLOOD ZONE A:



LIMITS OF MULCH ONLY:



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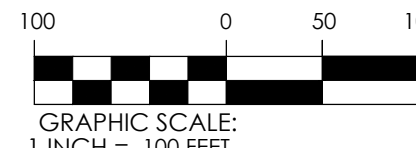
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EROSION CONTROL PLAN - CONSTRUCTION - FINAL PHASE

ESPC GRADING PLAN
MOORE TRACT

PROJECT LOCATION:
13924 HWY 278
SOCIAL CIRCLE, GA 30025

CLIENT/OWNER:
JDA STANTON SPRINGS
ANDREA GRAY
300 E CHURCH STREET
MONROE, GA 30655
ANDREA@ANDREAGRAY.COM



DATUM: HORIZ.: NAD-83 GAW VERT.: NAVD 88

JOB NO: 26900.0015
DATE: 05/12/2026
DRAWN: ZR
DESIGNED: ZR
REVIEWED: DG
APPROVED: WHE
SCALE: 1" = 100'

EC2.1

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SOIL SERIES LEGEND

SOIL SERIES	SOIL DESCRIPTION
ArF	ASHLAR SANDY LOAM
CCA	CARTECAY AND CHEWACLA
CeC	CECIL SANDY LOAM
GeC	GWINNETT SANDY LOAM
GwD2	GWINNETT SANDY CLAY LOAM
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PID2	PACOLET SANDY CLAY LOAM 10-15% SLOPE
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EROSION CONTROL LEGEND

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DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)	[Ds2]
DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)	[Ds3]
DUST CONTROL	[Du]
COMPOST FILTER SOCK	[Cd-Fs]
CONSTRUCTION EXIT	[Co]
DIVERSION	[Di]
DOWNDRAIN STRUCTURES (TEMPORARY)	[Dn1]
ROCK FILTER DAM	[Rd]
SILT FENCE - TYPE S	[Sd1-S]
TEMPORARY SEDIMENT BASIN	[Sd3]
TEMPORARY SEDIMENT TRAP	[Sd4]
FLOATING SURFACE SKIMMER	[Sk]
STORM DRAIN OUTLET PROTECTION	[St]

HATCHING LEGEND

WETLANDS:	[Hatched Pattern]
FLOOD ZONE A:	[Hatched Pattern]
LIMITS OF MULCH ONLY:	[Hatched Pattern]

- CONSTRUCTION SEQUENCE - CONSTRUCTION AND STABILIZATION**
- ONCE ALL INITIAL PHASE CONTROLS ARE IN PLACE AND THE 7-DAY LETTER IS ISSUED, THE CONTRACTOR CAN THEN COMPLETE THE REMAINING CLEARING AND GRUBBING.
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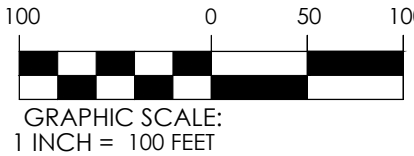
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EROSION CONTROL PLAN - CONSTRUCTION - FINAL PHASE

ESPC GRADING PLAN
MOORE TRACT

PROJECT LOCATION:
13924 HWY 278
SOCIAL CIRCLE, GA 30025

CLIENT/OWNER:
JDA STANTON SPRINGS
ANDREA GRAY
300 E CHURCH STREET
MONROE, GA 30655
ANDREA@ANDREAPGRAY.COM



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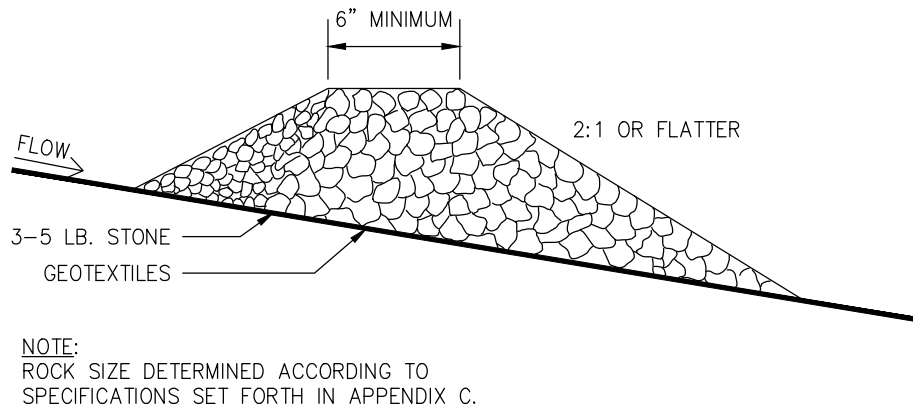
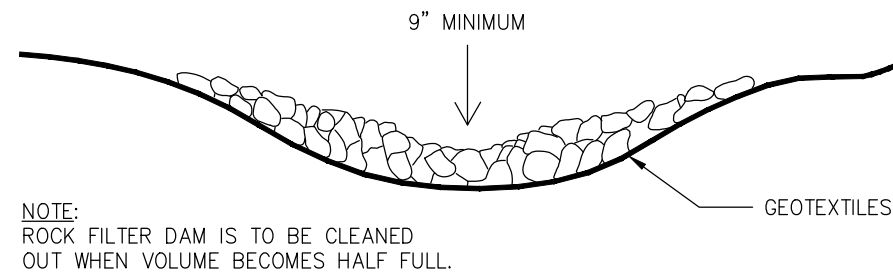
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SCALE: 1" = 100'

EC2.2

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ROCK FILTER DAM

(Rd)



TEMPORARY SEDIMENT BASIN

CROSS-SECTIONAL DETAIL

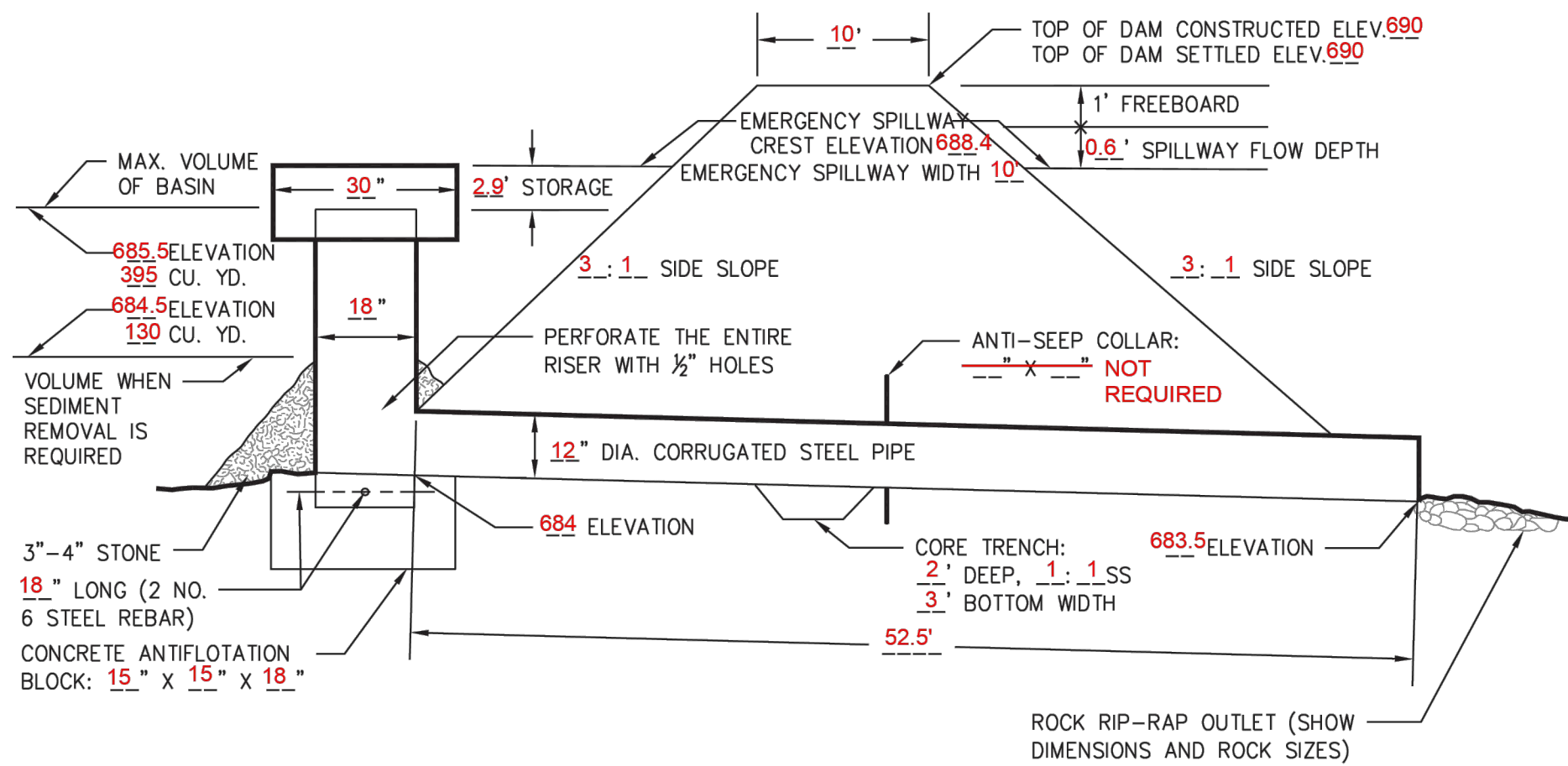
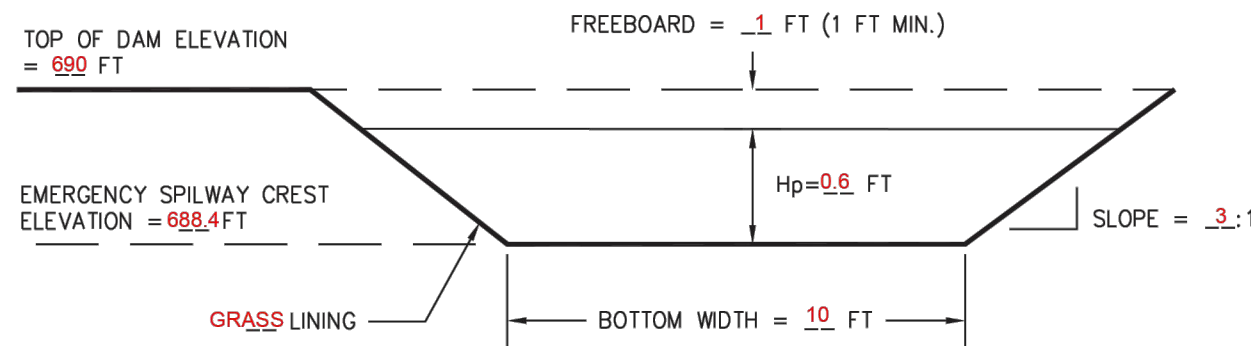


Figure 6-29.7

CROSS-SECTIONAL DETAIL OF EMERGENCY SPILLWAY

PROFILE ALONG CENTERLINE



EMERGENCY SPILLWAY

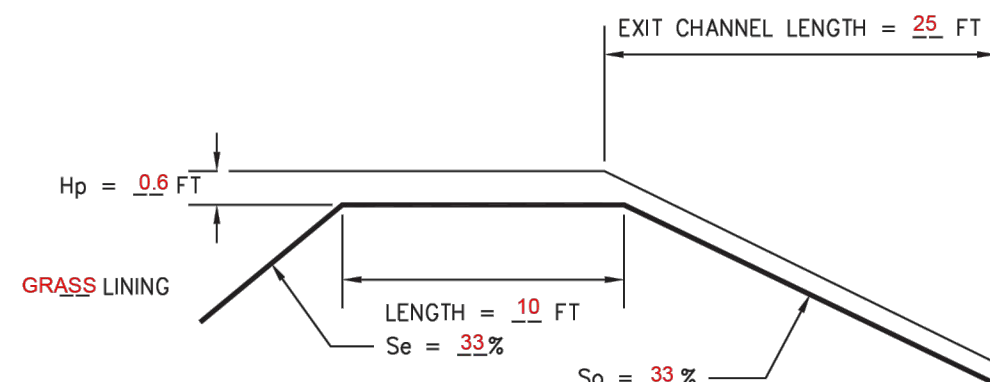


Figure 6-29.8

TEMPORARY SEDIMENT BASIN DESIGN SHEET

Project Name Moore Tract
Basin No. Basin 2
Total area draining to basin = 6.4 acres
Disturbed area draining to basin = 6.0 acres

Computed by _____ Date _____
Checked by _____ Date _____

Volume

1. Compute minimum required storage volume (V_s).
 $V_s = 67 \text{ cy/ac} \times \underline{6.0} \text{ acres} = \underline{402} \text{ cy}$
2. Compute volume of basin at clean-out (V_o).
 $V_o = 22 \text{ cy/ac} \times \underline{6.0} \text{ acres} = \underline{132} \text{ cy}$
3. Determine elevation corresponding to minimum required storage volume, V_s .
Minimum riser crest elevation = 685.5 ft (determined by stage/storage relationship)
4. Determine elevation corresponding to clean-out volume, V_o .
Clean-out elevation = 684.5 ft (determined by stage/storage relationship)
Note: Clean-out elevation shall be clearly marked on the riser or marked by a post near the riser.
5. Compute length of riser.
Riser length = Minimum elevation of riser crest - Lowest elevation of pipe at riser
Riser length = 685.5 ft - 684 ft
Riser length = 1.5 ft

Stormwater Runoff

6. Compute peak discharge from a 2-yr, 24-hr storm event.
 $Q_p = \underline{2.01} \text{ cfs}$ (Attach runoff computation sheet.)
7. Compute peak discharge from a 25-yr, 24-hr storm event.
 $Q_{25} = \underline{13.47} \text{ cfs}$ (Attach runoff computation sheet.)

Surface Area/Configuration Design

8. Compute minimum basin surface area (SA_{min}).
 $SA_{min} = 0.01 \text{ ac/cfs} \times Q_p$
 $SA_{min} = 0.01 \text{ ac/cfs} \times \underline{2.01} \text{ cfs}$
 $SA_{min} = \underline{.0201} \text{ ac} = 43560 \text{ sf/ac} \times \underline{.0201} \text{ ac} = \underline{876} \text{ sf}$
 9. Check available area at elevation of riser crest.
Available area = 8202 sf (determined by stage/storage relationship)
Available area SA_{min} ? Yes YES No
2:1 W ratio satisfied? Yes YES No
 10. Compute required length to achieve 2:1 L:W ratio.
Average width = 40 ft
Required length = 2 * average width
Required length = 2 * 40 ft
Required length = 80 ft
Available length = 80 ft
2:1 W ratio satisfied? Yes YES No
- If "no", refer to Figure 6-29.2 for baffle designs. Note any required baffles on E&SC Plan and include calculations and details for baffle(s).

Principal Spillway (ps)

11. Determine maximum principal spillway capacity.
 $Q_{max} = Q_p = \underline{2.01} \text{ cfs}$
12. Compute the vertical distance between the centerline of the outlet pipe and the emergency spillway crest (H).
 $H = \underline{6} \text{ ft}$
13. Compute the total pipe length of the principal spillway, L, using Figure 6-29.3.
 $L = [A - (B+C)/2] [Zu+Zd] + T + E = [\underline{690} - (\underline{684} + \underline{683.5})/2] [\underline{3} + \underline{3}] + \underline{10} + \underline{5}$
 $L = \underline{52.5} \text{ ft}$

TEMPORARY SEDIMENT BASIN DESIGN SHEET

Project Name Moore Tract
Page 2

14. Determine diameter of principal spillway (D_{ps}) and flow through the principal spillway (Q) from Table 6-29.1 using H and Q_{max} .
 $D_{ps} = \underline{12} \text{ in.}$ Q = 4.86 cfs (value directly from table)
15. Compute actual flow through the principal spillway, using Table 6-29.1 to determine the correction factor for pipe length, L.
 $Q_{ps} = Q \times \text{correction factor} = \underline{4.86} \text{ cfs} \times \underline{1.14}$
 $Q_{ps} = \underline{5.54} \text{ cfs}$
16. Compute riser diameter (D_r).
 $D_r = 1.5 \times D_{ps}$
 $D_r = 1.5 \times \underline{12} \text{ in.}$
 $D_r = \underline{18} \text{ in.}$
 $D_r = \underline{18} \text{ in.}$
17. Compute trash rack diameter (D_t).
 $D_t = 1.4 \times D_r$
 $D_t = 1.4 \times \underline{18} \text{ in.}$
 $D_t = \underline{25.2} \text{ in.}$
 $D_t = \underline{30} \text{ in.}$
18. Determine the minimum distance between the riser crest and the emergency spillway crest, h, using Table 6-29.2
 D_p and Q_{ps} .
 $h = \underline{0.4} \text{ ft}$

Concrete Riser Base Design

19. Determine the volume of concrete per vertical foot of riser height needed, from Table 6-29.3 to prevent flotation.
Required volume of concrete per vertical foot = 1.54 cf/v.f.
20. Compute total volume of concrete required.
Total required volume of concrete = Required volume per vertical foot * Riser length
Total required volume of concrete = 1.54 cf/v.f. * 1.4 ft
Total volume of concrete required = 2.2 cf
21. Assume base thickness, B (usually 18").
 $B = \underline{18} \text{ in} = \underline{1.5} \text{ ft}$
22. Compute required surface area.
Required surface area = Total volume required / B
Required surface area = 2.2 cf / 1.5 ft
Required surface area = 1.5 sf
23. Compute riser base length (l) and width (w) (assume square base).
 $l = w = (\text{required surface area})^{1/2}$
 $l = w = (\underline{1.5} \text{ sf})^{1/2}$
 $l = w = \underline{1.25} \text{ ft} = 12 \text{ in/ft} \times \underline{1.25} \text{ ft} = \underline{15} \text{ in}$

Anti-Seep Collar Design

24. Determine if anti-seep collar is required. If yes, to any of the following conditions, a collar is required:
NO The settled height of the dam is greater than 15 feet.
NO The principal spillway diameter (D_{ps}) is smooth pipe larger than 8".
NO The principal spillway diameter (D_{ps}) is corrugated metal pipe larger than 12".
25. Determine size of anti-seep collar required.
18-inch projection (for heads (H) less than or equal to 10 feet).
24-inch projection (for heads (H) greater than 10 feet).

Emergency Spillway (es)

26. Compute minimum capacity of emergency spillway (Q_{es}).
 $Q_{es} = Q_{ps} - Q_{ps} = \underline{13.47} \text{ cfs} - \underline{5.54} \text{ cfs}$
 $Q_{es} = \underline{7.93} \text{ cfs}$

TEMPORARY SEDIMENT BASIN DESIGN SHEET

Project Name Moore Tract
Page 3

27. Determine stage (H_s), bottom width (b), velocity (V) and minimum exit slope (S) using Table 6-29.4 and Q_{es} .
 $H_s = \underline{0.6} \text{ ft}$ b = 10 ft V = 3.0 fps S = 3.7 %
28. Actual entrance channel slope, $S_e = \underline{33} %$
29. Actual exit channel slope, $S_e = \underline{33} %
Note: If S_e is steeper than S (from Table 6-29.4), then the velocity in the exit channel will increase.$
- a.) Calculate new exit velocity (V_e).
 $V_e = V (S/S_e)^{0.3} = \underline{3.0} \text{ fps} \times (\underline{33} / \underline{33})^{0.3}$
 $V_e = \underline{3.0} \text{ fps}$
Note: Refer to Channel Stabilization (Ch) to determine the proper lining for the emergency spillway.
Grass Grass Rip-rap _____ Concrete _____

Design Elevations

30. Riser crest elevation = 685.5 ft
31. Compute minimum emergency spillway crest elevation.
Minimum emergency spillway crest elevation = Riser crest elevation + h
Minimum emergency spillway crest elevation = 685.5 ft + 0.4 ft
Minimum emergency spillway crest elevation = 685.9 ft
32. Determine design high water elevation
Design high water elevation = Minimum emergency spillway crest elevation + Stage elevation (H_p)
Design high water elevation = 685.9 ft + 0.6 ft
Design high water elevation = 686.5 ft
33. Determine elevation of top of dam
Elevation of top of dam = Design high water elevation + 1 ft freeboard
Elevation of top of dam = 686.5 ft + 1 ft
Elevation of top of dam = 687.5 ft

PLEASE NOTE THAT DESIGN VALUES DETERMINED BY THIS SHEET REPRESENT THE **MINIMUM** REQUIREMENTS FOR A TEMPORARY SEDIMENT BASIN.

PERMIT SET - FOR REVIEW PURPOSES ONLY

NO.	REVISIONS	BY	DATE



GSWCC ID: 0000064323
EXP: 12/22/2027



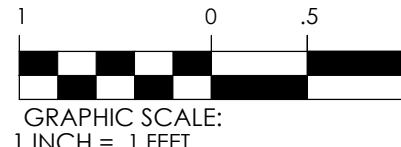
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EROSION CONTROL DETAILS

ESPC GRADING PLAN MOORE TRACT

PROJECT LOCATION:
13924 HWY 278
SOCIAL CIRCLE, GA 30025

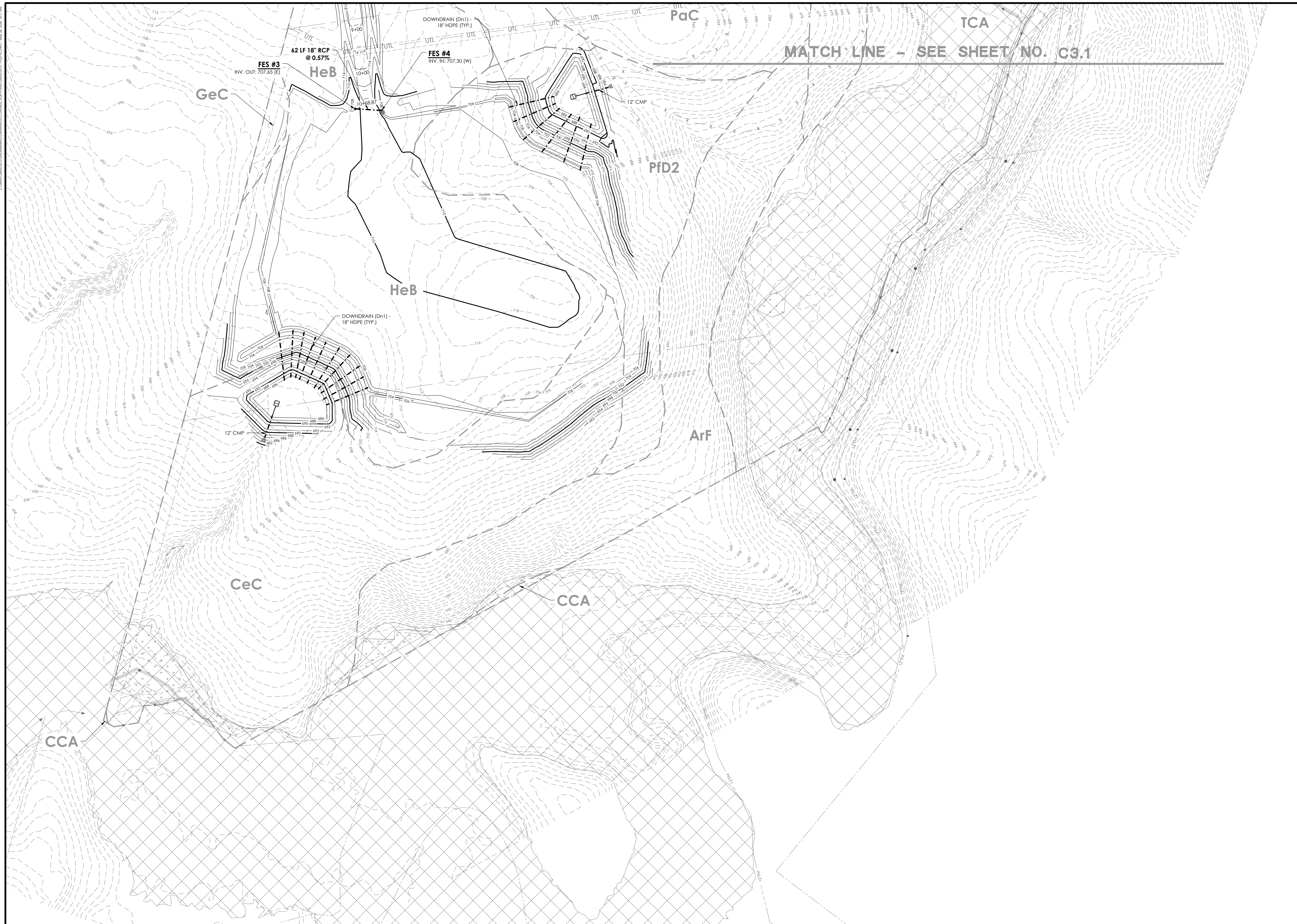
CLIENT/OWNER:
JDA STANTON SPRINGS
ANDREA GRAY
300 E CHURCH STREET
MONROE, GA 30655
ANDREA@ANDREAPGRAY.COM



DATUM: HORIZ.: NAD-83 GAW VERT.: NAVD 88

JOB NO: 26900.0015
DATE: 05/12/2026
DRAWN: ZR
DESIGNED: ZR
REVIEWED: DG
APPROVED: WHE
SCALE: 1" = 1'

EC4.4



MATCH LINE - SEE SHEET NO. C3.1

PERMIT SET - FOR REVIEW PURPOSES ONLY

NO.	REVISIONS	BY	DATE



GSWCC ID: 0000064323
EXP: 12/22/2027



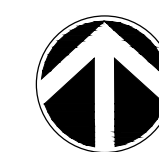
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GRADING AND DRAINAGE PLAN

ESPC GRADING PLAN
MOORE TRACT

PROJECT LOCATION:
13924 HWY 278
SOCIAL CIRCLE, GA 30025

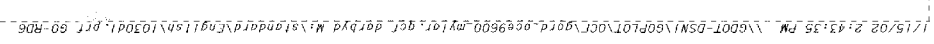
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ANDREA GRAY
300 E CHURCH STREET
MONROE, GA 30655
ANDREA@ANDREAPGRAY.COM



DATUM: HORIZ.: NAD-83 GAW VERT.: NAVD 88

JOB NO:	26900.0015
DATE:	05/12/2026
DRAWN:	ZR
DESIGNED:	ZR
REVIEWED:	DG
APPROVED:	WHE
SCALE:	1" = 100'

C3.2



C3.3