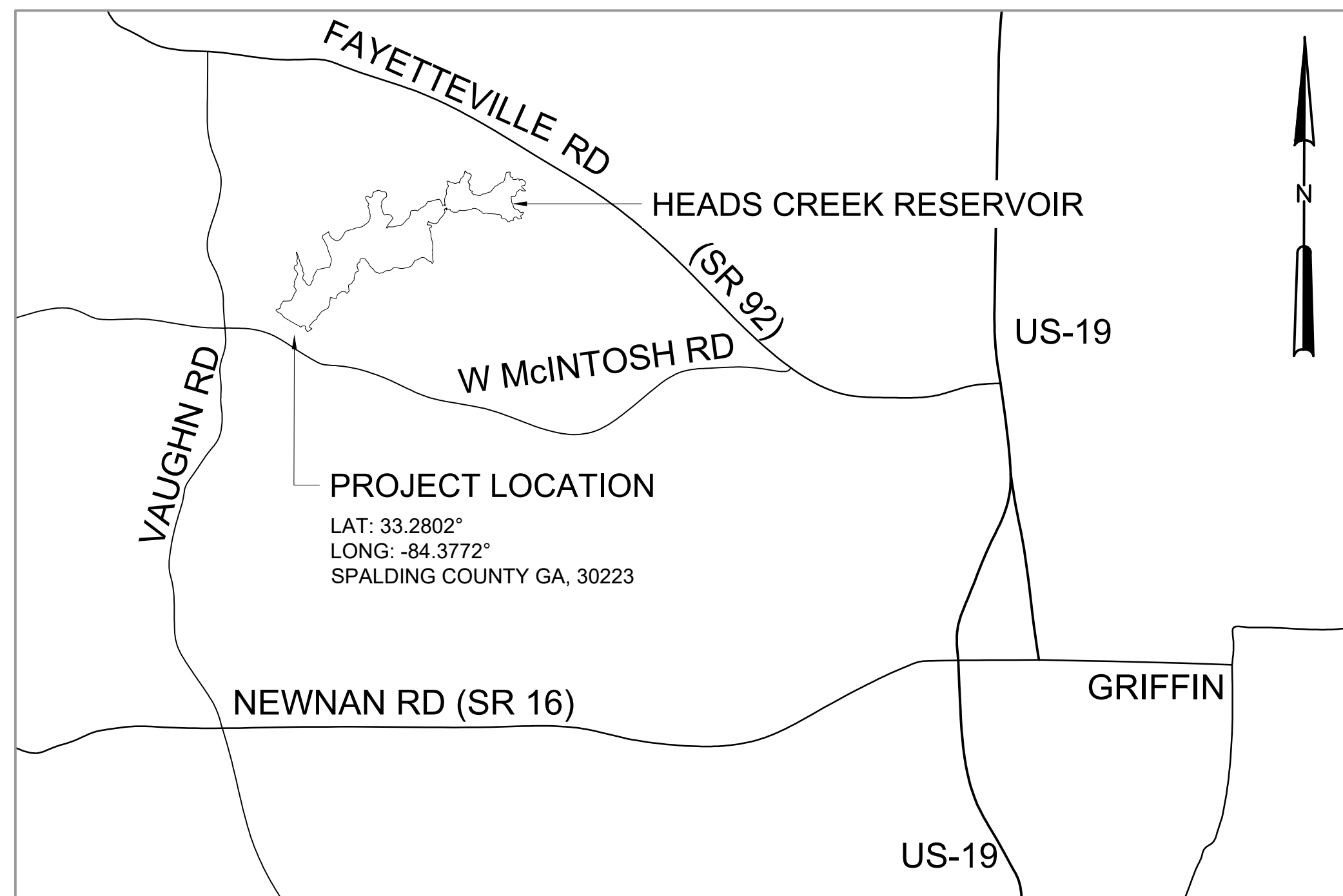


HEADS CREEK RESERVOIR DAM REHABILITATION SPALDING COUNTY, GA



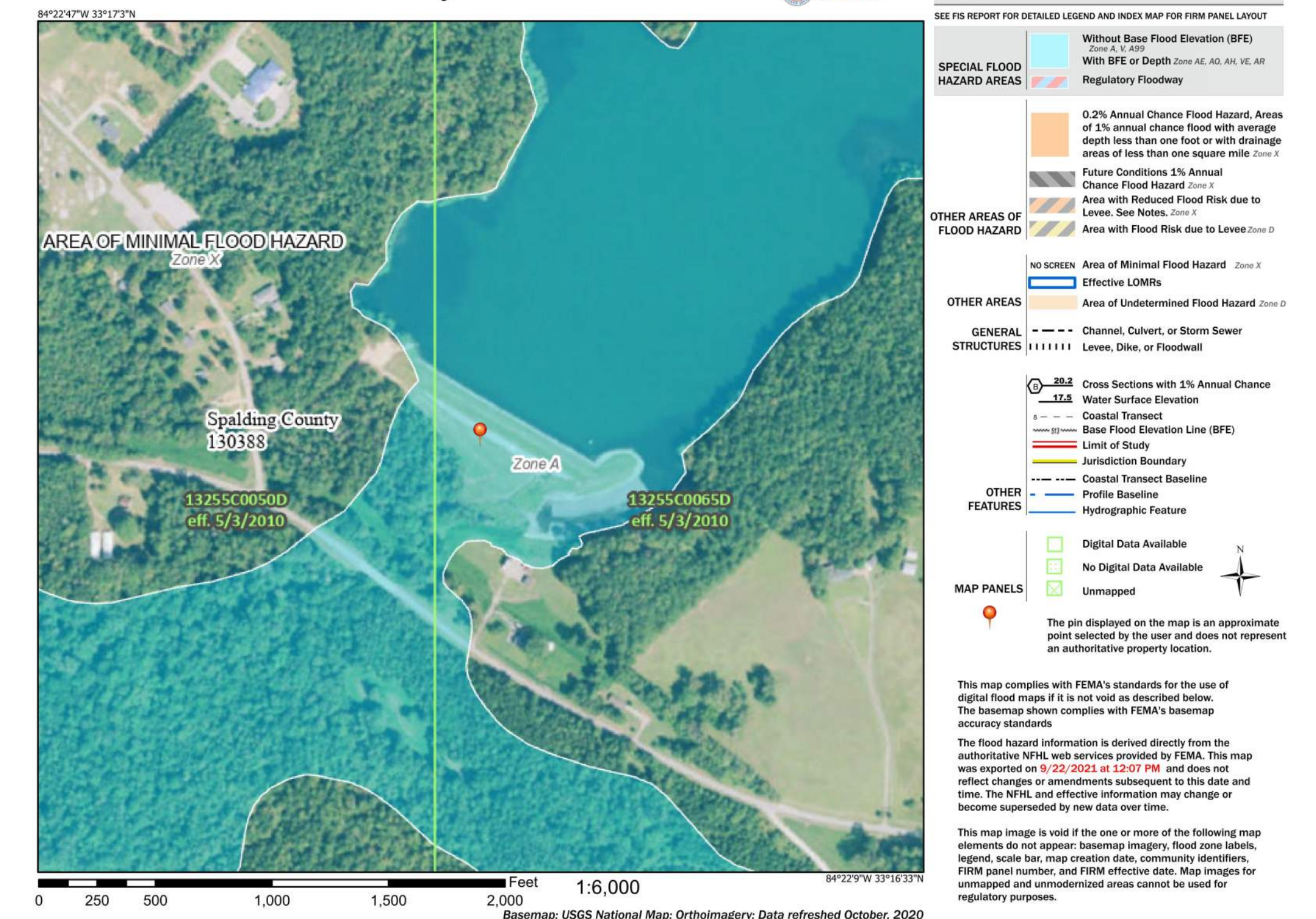
EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLANS MARCH 2022

DATE	SUBMITTAL / REVISION NOTES
01/11/2022	SPALDING COUNTY SUBMITTAL
03/14/2022	SPALDING COUNTY RESUBMITTAL



LOCATION MAP
NOT TO SCALE

National Flood Hazard Layer FIRMette



Know what's below.
Call before you dig.

OWNER:
CITY OF GRIFFIN
100 S. HILL STREET
GRIFFIN, GEORGIA 30223

24-HOUR CONTACT:
BRANT KELLER, PE, PhD
WATERSHED MANAGEMENT DIRECTOR
CITY OF GRIFFIN
770-229-6400



HAZEN PROJECT NO.: 31252-015

HAZEN AND SAWYER
1300 ALTMORE AVENUE
SUITE 520
ATLANTA, GEORGIA 30342

DESIGN ENGINEER CONTACTS:
HAZEN AND SAWYER
JEFFERY G. POWERS, PE
678-313-3473
H. CRAIG ROBINSON, PE
678-758-3234

E S&PC 24-HOUR CONTACT:

ENVIRONMENTAL PERMITTING NOTES

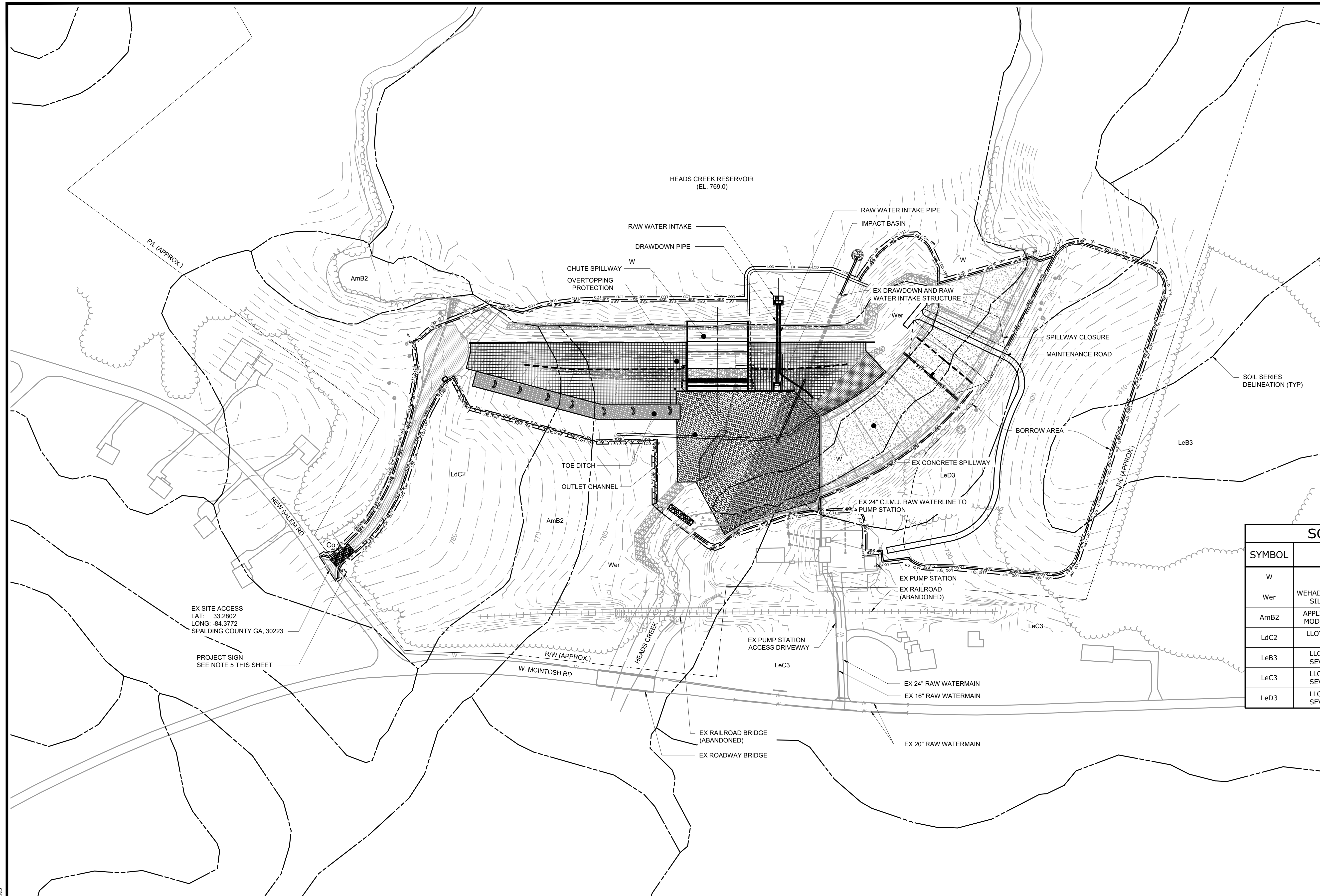
1. THIS PROJECT INVOLVES CONSTRUCTION TO BE PERFORMED WITHIN AND ADJACENT TO JURISDICTIONAL WATERS OF THE UNITED STATES.
2. THE WORK SHOWN IS AUTHORIZED BY THE UNITED STATES ARMY CORPS OF ENGINEERS (USACE) UNDER SECTION 404 NATIONWIDE PERMIT (NWP) 3(A). THE SAVANNAH DISTRICT REGIONAL NOTIFICATION (PCN) IS REQUIRED FOR USE OF NWP 3(A) FOR IMPACTS TO 0.1 ACRE OR MORE OF WETLANDS/OPEN WATER AND/OR 100 LINEAR FEET OR MORE OF STREAM. THE PROPOSED IMPACTS FOR THE HEADS CREEK DAM REHABILITATION ARE LESS THAN THESE THRESHOLDS AND THEREFORE NO PCN IS PLANNED. A COURTESY NOTIFICATION HAS BEEN ISSUED TO THE PIEDMONT BRANCH OFFICE IN COLLEGE PARK.
3. THE CONTRACTOR SHALL PERFORM CONSTRUCTION IN CONFORMANCE WITH THE PROJECT CONTRACT DOCUMENTS AND SHALL COMPLY WITH ALL REQUIREMENTS OF THE USACE NATIONWIDE PERMIT.
4. IN ACCORDANCE WITH NPDES CONSTRUCTION STORM WATER GENERAL PERMIT, GAR 100001 PART IV, #11, PUBLIC WATER SYSTEM RESERVOIRS ARE EXEMPT FROM STATE STREAM BUFFER REQUIREMENTS.
5. PLACE A LARGE SIGN (MINIMUM 4 FEET BY 8 FEET) ON THE SITE VISIBLE FROM THE ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE(S), AND THE CONTACT PERSON(S) AND TELEPHONE NUMBER(S).

LEGEND:

- TPF — TREE PROTECTION FENCE
- SF — SILT FENCE
- LOD — LIMITS OF DISTURBANCE
- SOIL SERIES DELINEATION
- ROCK CHECK DAM
- COMPOST FILTER SOCK CHECK DAM

SOIL SERIES LEGEND

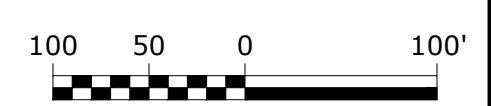
SYMBOL	NAME	HYDROLOGIC GROUP	SLOPE
W	WATER	N/A	N/A
Wer	WEHADKEE AND ROANOKE SILTY CLAY LOAMS	B/D	N/A
AmB2	APPLING SANDY LOAM, MODERATELY ERODED	B	2% - 6%
LdC2	LLOYD SANDY LOAM, ERODED	B	6% - 10%
LeB3	LLOYD CLAY LOAM, SEVERELY ERODED	B	2% - 6%
LeC3	LLOYD CLAY LOAM, SEVERELY ERODED	B	6% - 10%
LeD3	LLOYD CLAY LOAM, SEVERELY ERODED	B	10% - 15%



EX SITE ACCESS
LAT: 33.2802
LONG: -84.3772
SPALDING COUNTY GA. 30223

PROJECT SIGN
SEE NOTE 5 THIS SHEET

SCALE: 1" = 100'



File: C:\31252-01\CAD_BIM\CIVIL\ESC01_Saved by MBALLARD Save date: 3/11/2022 12:31 PM
PLOT DATE: 3/11/2022 1:25 PM BY: MBALLARD

PROJECT ENGINEER:	P. BAILEY
DESIGNED BY:	P. BAILEY
DRAWN BY:	HAZEN
CHECKED BY:	K. RAY
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"
REV	ISSUED FOR
	DATE
	BY

ESC CERT. ID#: 0000092856 EXP 01/08/2024
 GBPE LIC#: PE046288 EXP 12/31/2022

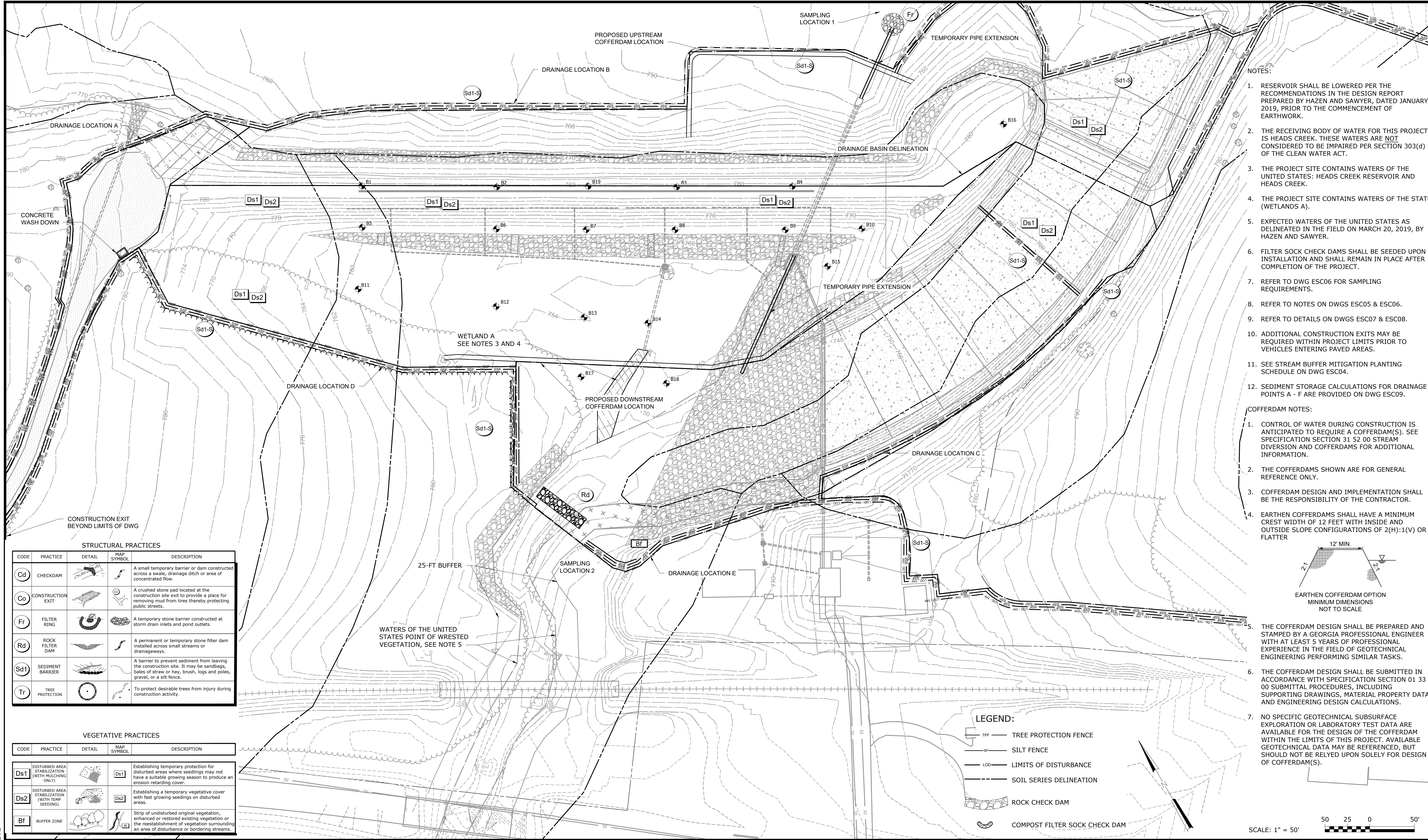
Hazen
 HAZEN AND SAWYER
 1300 ALTMORE AVENUE
 SUITE 520
 ATLANTA, GEORGIA 30342

CITY OF GRIFFIN
 GRIFFIN, GEORGIA

 HEADS CREEK RESERVOIR
 DAM REHABILITATION

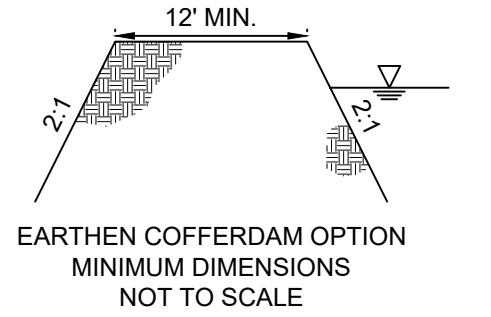
EROSION, SEDIMENTATION,
 AND POLLUTION CONTROL
 OVERALL PLAN

DATE:	MARCH 2022
HAZEN NO.:	31252-015
CONTRACT NO.:	TO-15
DRAWING NUMBER:	ESC01



- NOTES:**
1. RESERVOIR SHALL BE LOWERED PER THE RECOMMENDATIONS IN THE DESIGN REPORT PREPARED BY HAZEN AND SAWYER, DATED JANUARY 2019, PRIOR TO THE COMMENCEMENT OF EARTHWORK.
 2. THE RECEIVING BODY OF WATER FOR THIS PROJECT IS HEADS CREEK. THESE WATERS ARE NOT CONSIDERED TO BE IMPAIRED PER SECTION 303(d) OF THE CLEAN WATER ACT.
 3. THE PROJECT SITE CONTAINS WATERS OF THE UNITED STATES: HEADS CREEK RESERVOIR AND HEADS CREEK.
 4. THE PROJECT SITE CONTAINS WATERS OF THE STATE (WETLANDS A).
 5. EXPECTED WATERS OF THE UNITED STATES AS DELINEATED IN THE FIELD ON MARCH 20, 2019, BY HAZEN AND SAWYER.
 6. FILTER SOCK CHECK DAMS SHALL BE SEEDED UPON INSTALLATION AND SHALL REMAIN IN PLACE AFTER COMPLETION OF THE PROJECT.
 7. REFER TO DWG ESC06 FOR SAMPLING REQUIREMENTS.
 8. REFER TO NOTES ON DWGS ESC05 & ESC06.
 9. REFER TO DETAILS ON DWGS ESC07 & ESC08.
 10. ADDITIONAL CONSTRUCTION EXITS MAY BE REQUIRED WITHIN PROJECT LIMITS PRIOR TO VEHICLES ENTERING PAVED AREAS.
 11. SEE STREAM BUFFER MITIGATION PLANTING SCHEDULE ON DWG ESC04.
 12. SEDIMENT STORAGE CALCULATIONS FOR DRAINAGE POINTS A - F ARE PROVIDED ON DWG ESC09.

- COFFERDAM NOTES:**
1. CONTROL OF WATER DURING CONSTRUCTION IS ANTICIPATED TO REQUIRE A COFFERDAM(S). SEE SPECIFICATION SECTION 31 52 00 STREAM DIVERSION AND COFFERDAMS FOR ADDITIONAL INFORMATION.
 2. THE COFFERDAMS SHOWN ARE FOR GENERAL REFERENCE ONLY.
 3. COFFERDAM DESIGN AND IMPLEMENTATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 4. EARTHEN COFFERDAMS SHALL HAVE A MINIMUM CREST WIDTH OF 12 FEET WITH INSIDE AND OUTSIDE SLOPE CONFIGURATIONS OF 2(H):(1)V OR FLATTER



5. THE COFFERDAM DESIGN SHALL BE PREPARED AND STAMPED BY A GEORGIA PROFESSIONAL ENGINEER WITH AT LEAST 5 YEARS OF PROFESSIONAL EXPERIENCE IN THE FIELD OF GEOTECHNICAL ENGINEERING PERFORMING SIMILAR TASKS.
6. THE COFFERDAM DESIGN SHALL BE SUBMITTED IN ACCORDANCE WITH SPECIFICATION SECTION 01 33 00 SUBMITTAL PROCEDURES, INCLUDING SUPPORTING DRAWINGS, MATERIAL PROPERTY DATA, AND ENGINEERING DESIGN CALCULATIONS.
7. NO SPECIFIC GEOTECHNICAL SUBSURFACE EXPLORATION OR LABORATORY TEST DATA ARE AVAILABLE FOR THE DESIGN OF THE COFFERDAM WITHIN THE LIMITS OF THIS PROJECT. AVAILABLE GEOTECHNICAL DATA MAY BE REFERENCED, BUT SHOULD NOT BE RELIED UPON SOLELY FOR DESIGN OF COFFERDAM(S).

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.

- LEGEND:**
- TPF — TREE PROTECTION FENCE
 - SF — SILT FENCE
 - LOD — LIMITS OF DISTURBANCE
 - SOIL SERIES DELINEATION
 - ROCK CHECK DAM
 - COMPOST FILTER SOCK CHECK DAM



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PROJECT ENGINEER:	P. BAILEY		
DESIGNED BY:	P. BAILEY		
DRAWN BY:	HAZEN		
CHECKED BY:	K. RAY		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"		
REV	ISSUED FOR	DATE	BY

GEORGIA
Professional Engineer
PATRICK J. BAILEY
4111
11/2022

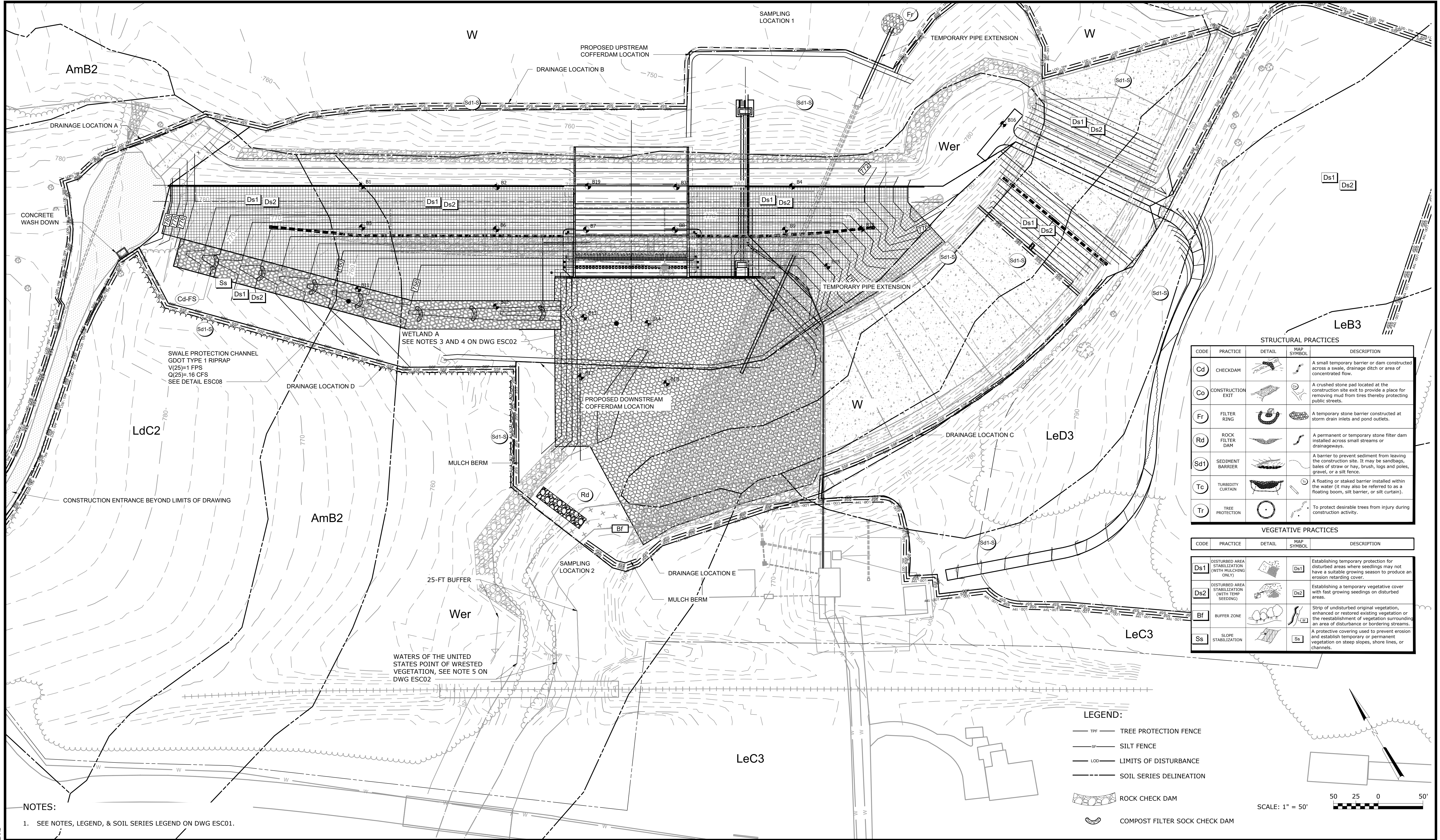
ESC CERT. ID#: 000092856 EXP 01/08/2024
GBPE LIC#: PE046288 EXP 12/31/2022

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVENUE
SUITE 520
ATLANTA, GEORGIA 30342

CITY OF GRIFFIN
GRIFFIN, GEORGIA
HEADS CREEK RESERVOIR
DAM REHABILITATION

EROSION, SEDIMENTATION,
AND POLLUTION CONTROL
PLAN PHASE 1

DATE:	MARCH 2022
HAZEN NO.:	31252-015
CONTRACT NO.:	TO-15
DRAWING NUMBER:	ESC02



STRUCTURAL PRACTICES				
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainways.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.

VEGETATIVE PRACTICES				
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

- LEGEND:**
- TREE PROTECTION FENCE
 - SILT FENCE
 - LIMITS OF DISTURBANCE
 - SOIL SERIES DELINEATION
 - ROCK CHECK DAM
 - COMPOST FILTER SOCK CHECK DAM



NOTES:
 1. SEE NOTES, LEGEND, & SOIL SERIES LEGEND ON DWG ESC01.

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 PLOT DATE: 3/11/2022 1:15 PM BY: MBALLARD

PROJECT ENGINEER:	P. BAILEY		
DESIGNED BY:	P. BAILEY		
DRAWN BY:	HAZEN		
CHECKED BY:	K. RAY		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE			
REV	ISSUED FOR	DATE	BY

RICK J. BAILEY
 ESC CERT. ID#: 000092856 EXP 01/08/2024
 GBPE LIC#: PE046288 EXP 12/31/2022

Hazen
 HAZEN AND SAWYER
 1300 ALTMORE AVENUE
 SUITE 520
 ATLANTA, GEORGIA 30342

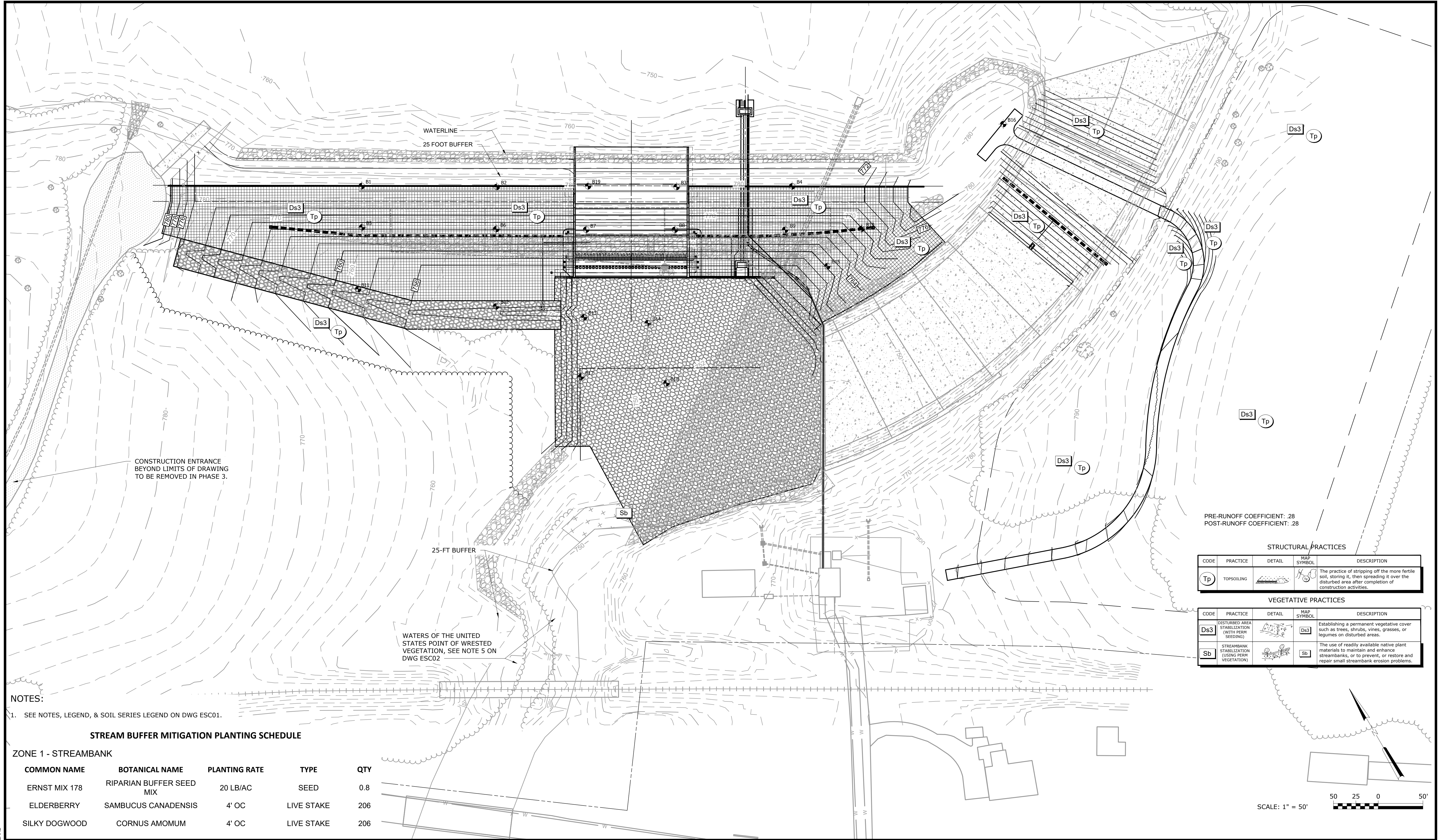
CITY OF GRIFFIN
 GRIFFIN, GEORGIA

 HEADS CREEK RESERVOIR
 DAM REHABILITATION

EROSION, SEDIMENTATION,
 AND POLLUTION CONTROL
 PLAN PHASE 2

 ESC03

DATE:	MARCH 2022
HAZEN NO.:	31252-015
CONTRACT NO.:	TO-15
DRAWING NUMBER:	ESC03



PRE-RUNOFF COEFFICIENT: .28
 POST-RUNOFF COEFFICIENT: .28

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.

VEGETATIVE PRACTICES

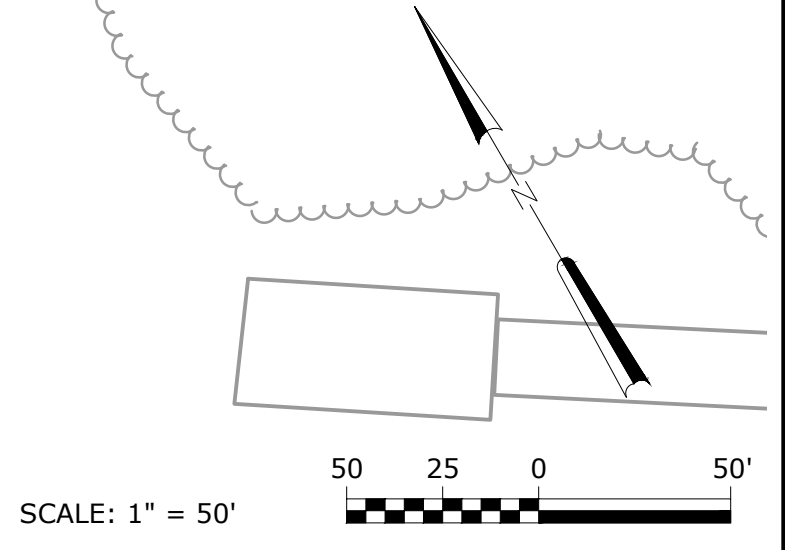
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.

NOTES:
 1. SEE NOTES, LEGEND, & SOIL SERIES LEGEND ON DWG ESC01.

STREAM BUFFER MITIGATION PLANTING SCHEDULE

ZONE 1 - STREAMBANK

COMMON NAME	BOTANICAL NAME	PLANTING RATE	TYPE	QTY
ERNST MIX 178	RIPIARIAN BUFFER SEED MIX	20 LB/AC	SEED	0.8
ELDERBERRY	SAMBUCUS CANADENSIS	4' OC	LIVE STAKE	206
SILKY DOGWOOD	CORNUS AMOMUM	4' OC	LIVE STAKE	206



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 PLOT DATE: 3/11/2022 1:18 PM BY: MBALLARD

PROJECT ENGINEER:	P. BAILEY		
DESIGNED BY:	P. BAILEY		
DRAWN BY:	HAZEN		
CHECKED BY:	K. RAY		
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REV	ISSUED FOR	DATE	BY

ESC CERT. ID#: 0000092856 EXP 01/08/2024
 GBPE LIC#: PE046288 EXP 12/31/2022

Hazen
 HAZEN AND SAWYER
 1300 ALTMORE AVENUE
 SUITE 520
 ATLANTA, GEORGIA 30342

CITY OF GRIFFIN
 GRIFFIN, GEORGIA

 HEADS CREEK RESERVOIR
 DAM REHABILITATION

EROSION, SEDIMENTATION,
 AND POLLUTION CONTROL
 PLAN PHASE 3

DATE:	MARCH 2022
HAZEN NO.:	31252-015
CONTRACT NO.:	TO-15
DRAWING NUMBER:	ESC04

PERMIT COVERAGE:



THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES...

A. MANAGEMENT PRACTICES AND PERMIT VIOLATIONS (PART III.D):

- A.1. BEST MANAGEMENT PRACTICES ARE REQUIRED FOR ALL CONSTRUCTION ACTIVITIES AND MUST BE IMPLEMENTED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" TO PREVENT OR REDUCE THE POLLUTION OF WATERS OF GEORGIA...

B. AUTHORIZED DISCHARGES (PART I.C):

- B.1. ALL DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE ACRE. PART I.C.1.A.

C. LIMITATIONS ON COVERAGE PART I.C.3

- C.1.1. STORMWATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATE FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION...

D. COMPLIANCE WITH WATER QUALITY PART I.C.4

- D.1. NO DISCHARGES AUTHORIZED BY THIS PERMIT SHALL CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6-.03.

INSPECTIONS (PART IV.D.4)

A. PERMITTEE REQUIREMENTS.

- (1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING...

SAMPLING (PART IV.D.6)

STORMWATER SAMPLING SHALL BE IN ACCORDANCE WITH THE METHODOLOGY IN THE NPDES STORMWATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-98-001, AND THE NPDES GENERAL CONSTRUCTION NO. GAR100001 PREPARED BY THE STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES...

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS SECTION IS APPLICABLE TO PRIMARY PERMITTEES WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE AND TERTIARY PERMITTEES WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN FIVE (5) ACRES...

A. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

- (1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP...

B. SAMPLE TYPE.

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

C. 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 STORMWATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES...

D. 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 IN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE...

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

REPORTING (PART IV.E)

- 1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT...

RETENTION OF RECORDS (PART IV.F)

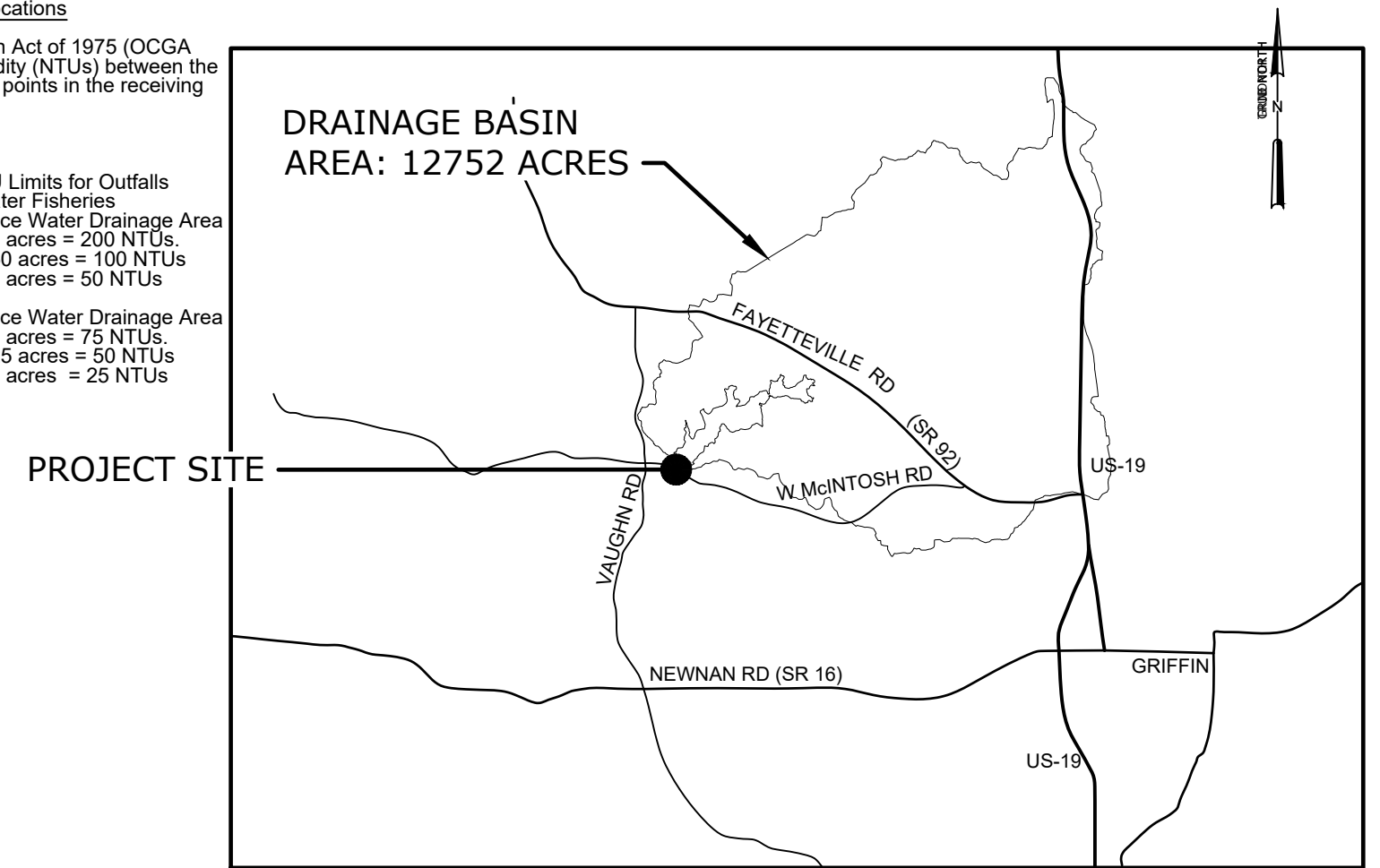
- A. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

NPDES Monitoring Sites

See sheets ESC01- ESC03for site locations

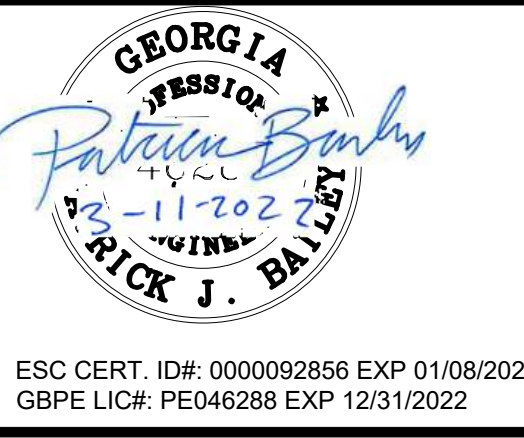
** Per the Erosion and Sedimentation Act of 1975 (OCGA 12-7), the allowable increase in turbidity (NTUs) between the downstream and upstream sampling points in the receiving waters:

Table with 2 columns: Water Type and NTU Limit. Includes rows for Warm Waters Trout Waters (25 NTU), Waters Supporting Warm Water Fisheries (10 NTU), Trout Streams (10-24.99 Sq. Mi. Surface Water Drainage Area), etc.



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Table with columns: REV, ISSUED FOR, DATE, BY. Includes project engineer P. BAILEY, designed by P. BAILEY, drawn by HAZEN, checked by K. RAY, and a scale bar.



Hazen and Sawyer logo and address: HAZEN AND SAWYER 1300 ALTMORE AVENUE SUITE 520 ATLANTA, GEORGIA 30342

CITY OF GRIFFIN GRIFFIN, GEORGIA HEADS CREEK RESERVOIR DAM REHABILITATION

Table with columns: DATE (MARCH 2022), HAZEN NO. (31252-015), CONTRACT NO. (TO-15), DRAWING NUMBER (ESC06), and title EROSION SEDIMENTATION AND POLLUTION CONTROL NOTES (2 OF 2).

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED, AND HAVE CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATION TECHNIQUES SHALL BE EMPLOYED.

SITE PREPARATION

- GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
- INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSION BERMS, TERRACES, AND SEDIMENT BARRIERS.
- LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

APPLYING MULCH

WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.

- DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL UNIFORMLY BE APPLIED BY HAND OR BY MECHANICAL EQUIPMENT.
- IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES.
- CUTBACK ASPHALT SHALL UNIFORMLY BE APPLIED. CARE SHALL BE TAKEN IN AREAS OF PEDESTRIAN TRAFFIC DUE TO PROBLEMS OF TRACKING IN, OR DAMAGE TO SHOES, CLOTHING, ETC.
- APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

ANCHORING MULCH

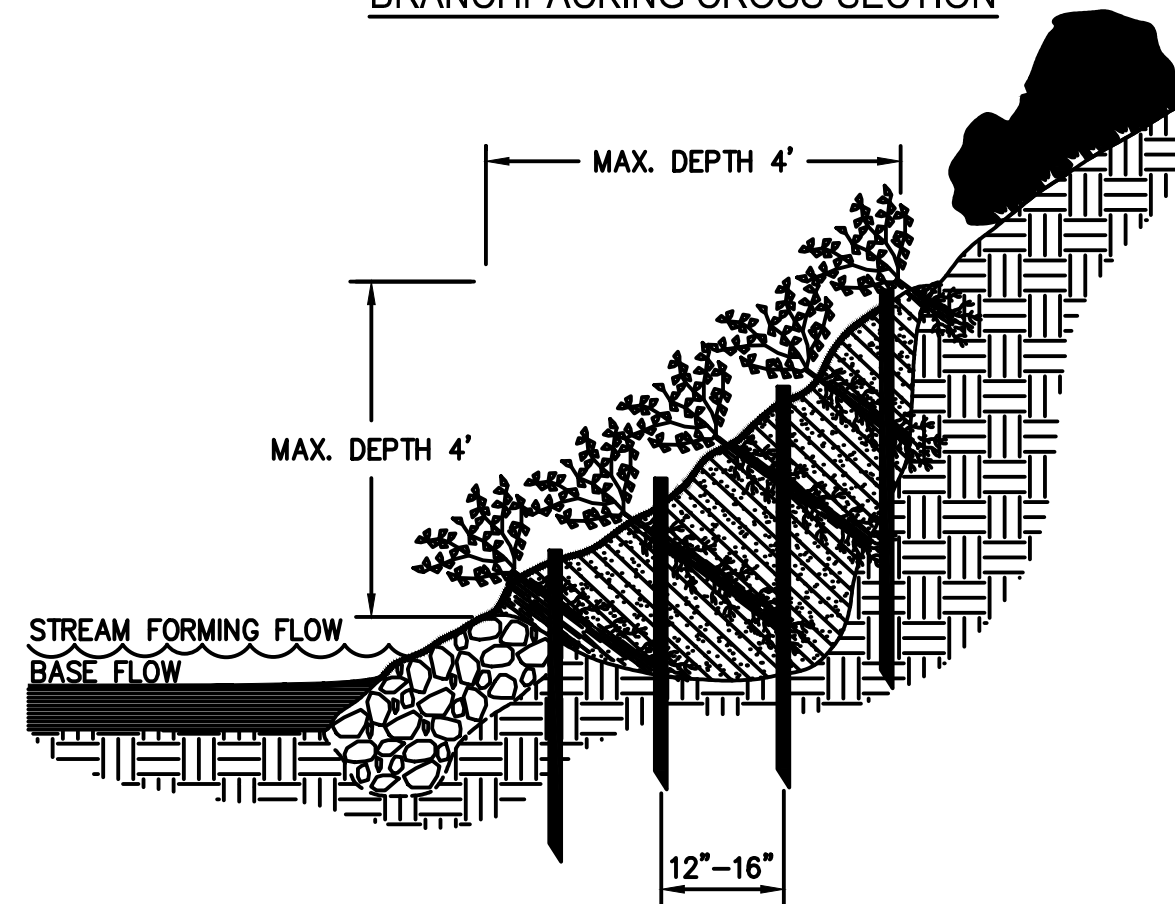
- STRAW OR HAY MULCH SHALL BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL PACKER DISK. DISKS MAY BE SMOOTH OR SERRATED AND SHALL BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHALL BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN ERECT POSITION. STRAW OR HAY MULCH SHALL IMMEDIATELY BE ANCHORED AFTER APPLICATION.
- STRAW OR HAY SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1). THE ASPHALT EMULSION SHALL BE SPRAYED ONTO THE MULCH AS IT IS EJECTED FROM THE MACHINE. USE 100 GALLONS OF EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH. TACKIFIERS AND BINDERS MAY BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLASTIC MESH OR NETTING WITH A MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS.
- POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AND INCREMENTALLY AS NECESSARY.

Ds1 MULCHING

MULCHING RATE		
MATERIAL	RATE	DEPTH
STRAW	2.0 TON/ACRE	2" - 4"
HAY	2.5 TON/ACRE	2" - 4"
WOOD WASTE: CHIPS, SAWDUST, BARK	---	2" - 3"
Polyethylene Film	Secure w/ soil and anchors	---

STREAMBANK STABILIZATION

BRANCHPACKING CROSS-SECTION

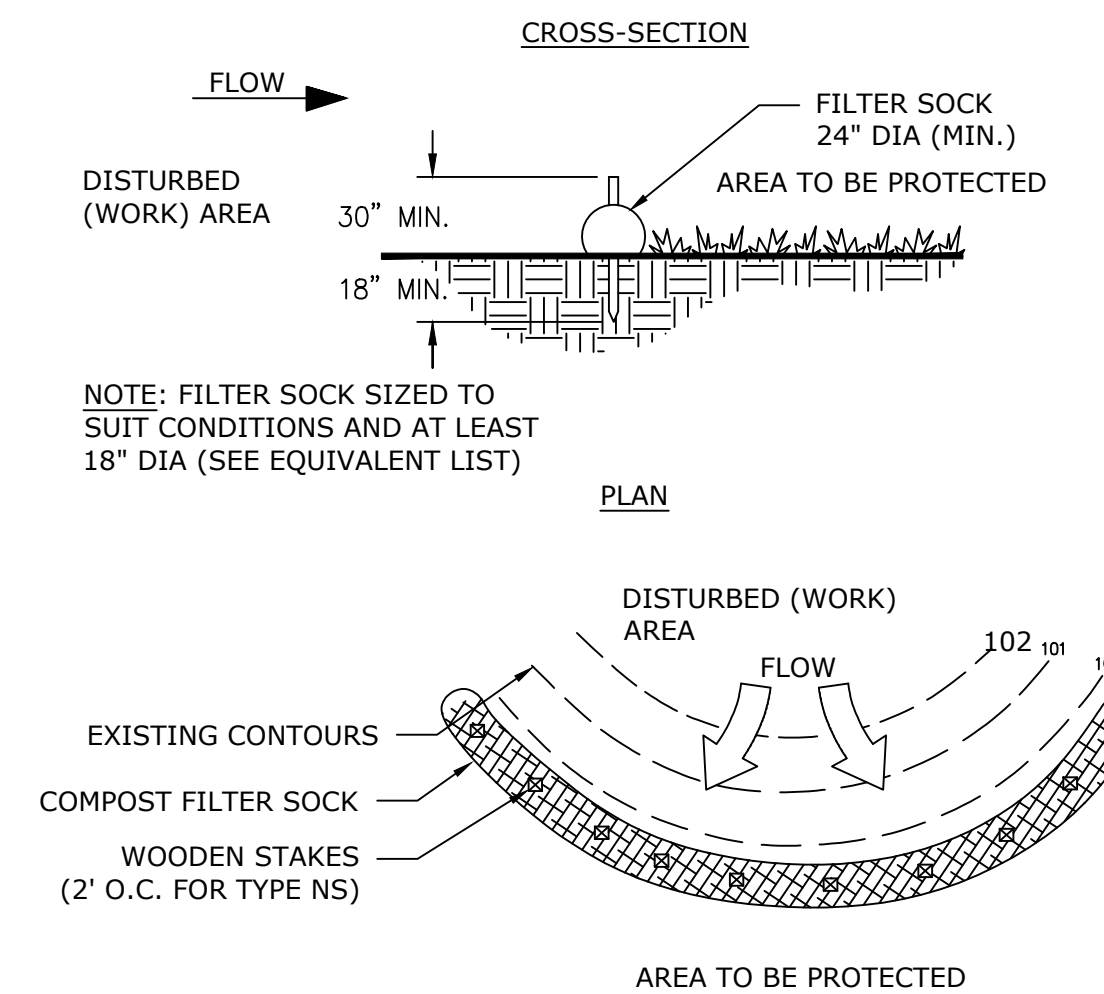


NOTES:

- ROOT/LEAFED CONDITION OF THE LIVING PLANT MATERIAL IS NOT REPRESENTATIVE OF THE TIME OF INSTALLATION.
- STARTING AT THE LOWEST POINT, DRIVE THE WOODEN POSTS VERTICALLY 3' TO 4' INTO THE GROUND AND SET THEM 12"-16" APART.
- A LAYER OF LIVING BRANCHES (4"-6" THICK) IS PLACED IN THE BOTTOM OF THE HOLE, BETWEEN THE VERTICAL POSTS. THEY SHALL BE PLACED IN A CRISSCROSS CONFIGURATION.
- THE FINAL INSTALLATION SHALL MATCH THE EXISTING SLOPE. BRANCHES SHOULD PROTRUDE ONLY SLIGHTLY FROM THE FILLED FACE.
- EACH LAYER OF BRANCHES SHALL BE FOLLOWED BY A 12" LAYER OF SOIL HAND TAMPED TO ENSURE CONTACT WITH THE BRANCH CUTTINGS.
- THE SOIL SHALL BE MOIST OR MOISTENED TO ENSURE THAT LIVE BRANCHES DO NOT DRY OUT.
- WHERE SPECIFIED, LIVE STAKES SHALL BE USED IN PLACE OF POSTS.

SEDIMENT BARRIER COMPOST FILTER SOCK (C01-FS)

TYPE B COMPOST FILTER SOCK



NOTE: FILTER SOCK SIZED TO SUIT CONDITIONS AND AT LEAST 18" DIA (SEE EQUIVALENT LIST)

VEGETATIVE COVERS

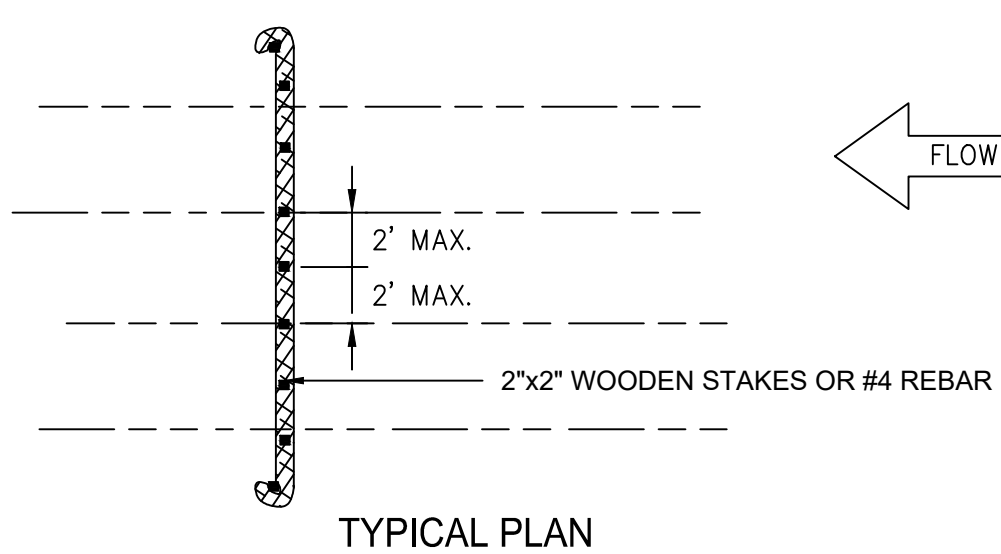
	MONTH	TEMPORARY SEED	RATE/ACRE	RATES/1,000 SQ. FT.		PERMANENT SEED	RATE/ACRE	RATES/1,000 SQ. FT.		MAINTENANCE
				FERTILIZER	LIME STONE			FERTILIZER	LIME STONE	
1)	JANUARY	RYE WHEAT	2 - 3 BU.	12 LB (10-10-10) 12 LB (10-10-10)	45 LB. 45 LB.	UNHULLED BERMUDA	30 LB.	12 LB (10-10-10)	45 LB.	10 LB (10-10-10)
2)	FEBRUARY	RYE WHEAT	2 - 3 BU.	12 LB (10-10-10) 12 LB (10-10-10)	45 LB. 45 LB.	UNHULLED BERMUDA	30 LB.	12 LB (10-10-10)	45 LB.	10 LB (10-10-10)
3)	MARCH	RYE	2 - 3 BU.	12 LB (10-10-10)	45 LB.	UNHULLED BERMUDA Ky-31 TALL FESCUE	30 LB. 50 LB.	12 LB (10-10-10)	45 LB.	10 LB (10-10-10)
4)	APRIL	RYE SUDAN GRASS	2 - 3 BU. 60 LB.	12 LB (10-10-10) 35 LB (6-12-12)	45 LB. 45 LB.	Ky-31 TALL FESCUE	50 LB.	35 LB (6-12-12)	45 LB.	10 LB (10-10-10)
5)	MAY	SUDAN GRASS	60 LB.	35 LB (6-12-12)	45 LB. 45 LB.	THE CONTRACTOR SHALL CONTACT THE ENGINEER IF THE CONSTRUCTION SCHEDULE CHANGES AND PERMANENT GRASSING IS REQUIRED.				
6)	JUNE	SUDAN GRASS	60 LB.	35 LB (6-12-12)	45 LB.	THE CONTRACTOR SHALL CONTACT THE ENGINEER IF THE CONSTRUCTION SCHEDULE CHANGES AND PERMANENT GRASSING IS REQUIRED.				
7)	JULY	SUDAN GRASS	60 LB.	35 LB (6-12-12)	45 LB.	THE CONTRACTOR SHALL CONTACT THE ENGINEER IF THE CONSTRUCTION SCHEDULE CHANGES AND PERMANENT GRASSING IS REQUIRED.				
8)	AUGUST	RYE	2 - 3 BU.	35 LB (6-12-12)	45 LB.	Ky-31 TALL FESCUE	50 LB.	12 LB (10-10-10)	45 LB.	10 LB (10-10-10)
9)	SEPTEMBER	RYE	2 - 3 BU.	35 LB (6-12-12)	45 LB.	Ky-31 TALL FESCUE	50 LB.	12 LB (10-10-10)	45 LB.	10 LB (10-10-10)
10)	OCTOBER	WHEAT	2 - 3 BU.	12 LB (10-10-10)	45 LB.	UNHULLED BERMUDA Ky-31 TALL FESCUE	30 LB. 50 LB.	12 LB (10-10-10) 35 LB (6-12-12)	45 LB. 45 LB.	10 LB (10-10-10) 10 LB (10-10-10)
11)	NOVEMBER	WHEAT	2 - 3 BU.	12 LB (10-10-10)	45 LB.	UNHULLED BERMUDA	30 LB.	12 LB (10-10-10)	45 LB.	10 LB (10-10-10)
12)	DECEMBER	RYE WHEAT	2 - 3 BU. 2 - 3 BU.	12 LB (10-10-10) 12 LB (10-10-10)	45 LB. 45 LB.	UNHULLED BERMUDA	30 LB.	12 LB (10-10-10)	45 LB.	10 LB (10-10-10)

(1) - USE A MINIMUM OF 40 LBS. SCARIFIED SEED. REMAINDER MAY BE UNSCARIFIED, CLEAN HULLED SEED.

THE ABOVE SEEDING CHART LISTS ALL POTENTIAL OPTIONS. CONTRACTOR SHALL SUBMIT THE SCHEDULE AND PROPOSED SEED MIXTURE FOR THIS PROJECT FOR ENGINEER'S APPROVAL PRIOR TO SEEDING.
THE CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 32 90 00 FINAL GRADING AND LANDSCAPING FOR THE PERMANENT GRASSING REQUIREMENTS FOR THE DAM EMBANKMENT AND INSPECTION BUFFER

Ds2 Ds3 TEMPORARY & PERMANENT GRASSING

CHECK DAM COMPOST FILTER SOCK (Cd-F)



NOTES:

- ALL MATERIAL TO MEET SPECIFICATIONS.
- PLACE ONE STAKE AT THE CENTER OF THE DITCH/CHANNEL. ALSO PLACE STAKES AT THE BED/BANK JUNCTION AND AT END OF THE DEVICE NOT SPACED MORE THAN 4 FEET APART. SEDIMENT SHALL BE REMOVED FROM BEHIND THE CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED ONE-HALF THE HEIGHT OF THE CHECK DAM.
- CHECK DAMS CAN BE DIRECT SEEDED AT THE TIME OF INSTALLATION.
- MINIMUM STAKING DEPTH FOR SAND, SILT, AND CLAY SHALL BE 18".
- COMPOST FILTER SOCK SHALL BE AT LEAST 18" DIAMETER.

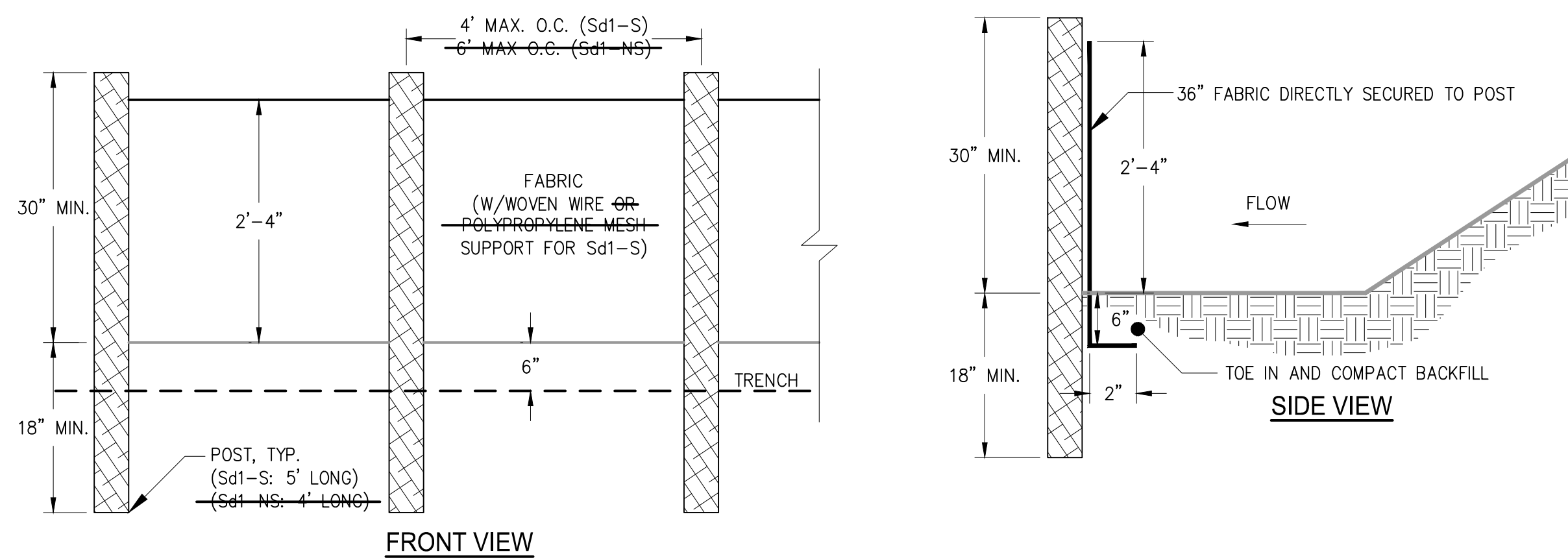
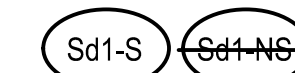
SILT FENCE TYPE	POST MAT'L	REINFORCEMENT
"A"	WOOD OR STEEL	N/A
"C"	STEEL	WOVEN WIRE BEHIND FABRIC
"C SYSTEM"	WOOD OR STEEL	POLYPROPYLENE MESH BEHIND FABRIC

POST MAT'L	MIN POST SIZE	MIN POST WEIGHT
STEEL	"U", "I", OR "C"	1.3 LB/FT
SOFT WOOD	3" DIA OR 2" X 4"	
HARD WOOD (TYPE "A")	1.5" X 1.5" (-0.375") AND 2.15 SQ IN	
HARD WOOD (TYPE "C-SYSTEM")	2" X 2" (-0.25") AND 3.28 SQ IN	

NOTES:

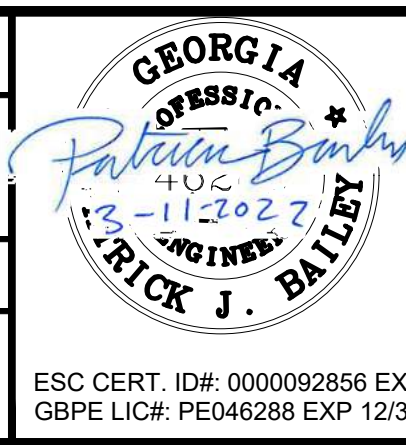
- Sd1-S SILT FENCING FOR SENSITIVE AREAS SHALL BE TYPE "C" OR TYPE "C SYSTEM". Sd1-NS SILT FENCING FOR NON-SENSITIVE AREAS SHALL BE TYPE "A".
- FILTER FABRIC, SUPPORT FENCE/MESH, POSTS, AND FASTENERS SHALL BE IN ACCORDANCE WITH GDOT STANDARD SPECIFICATIONS.
- WHERE DOUBLE ROWS OF Sd1-S SILT FENCING ARE SPECIFIED OR ORDERED BY ENGINEER, CONTRACTOR SHALL SPACE ROWS A MINIMUM OF 36" APART.

SILT FENCING



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PROJECT ENGINEER:	P. BAILEY
DESIGNED BY:	P. BAILEY
DRAWN BY:	HAZEN
CHECKED BY:	K. RAY
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"
REV	ISSUED FOR
	DATE
	BY



ESC CERT. ID#: 0000092856 EXP 01/08/2024
GBPE LIC#: PE046288 EXP 12/31/2022

Hazen
HAZEN AND SAWYER
1300 ALTMORE AVENUE
SUITE 520
ATLANTA, GEORGIA 30342

CITY OF GRIFFIN
GRIFFIN, GEORGIA

HEADS CREEK RESERVOIR
DAM REHABILITATION

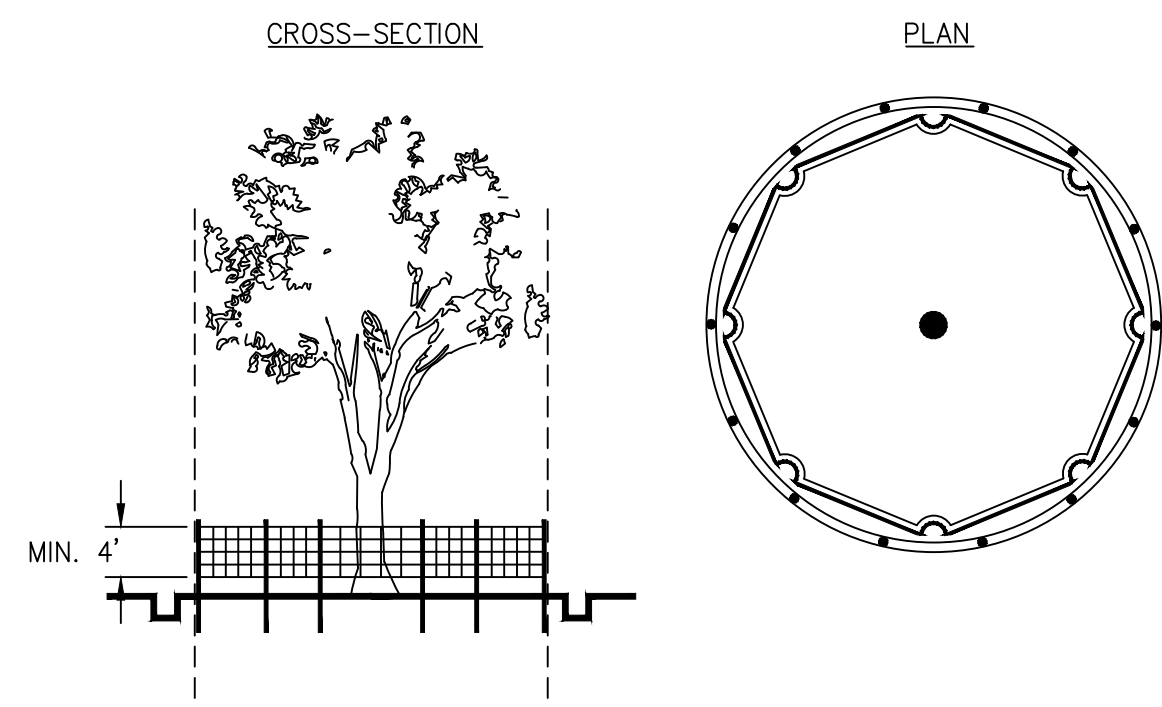
EROSION, SEDIMENTATION,
AND POLLUTION CONTROL
DETAILS (1 OF 2)

DATE:	MARCH 2022
HAZEN NO.:	31252-015
CONTRACT NO.:	TO-15
DRAWING NUMBER:	ESC07

TREE PROTECTION



"SNOW" FENCE

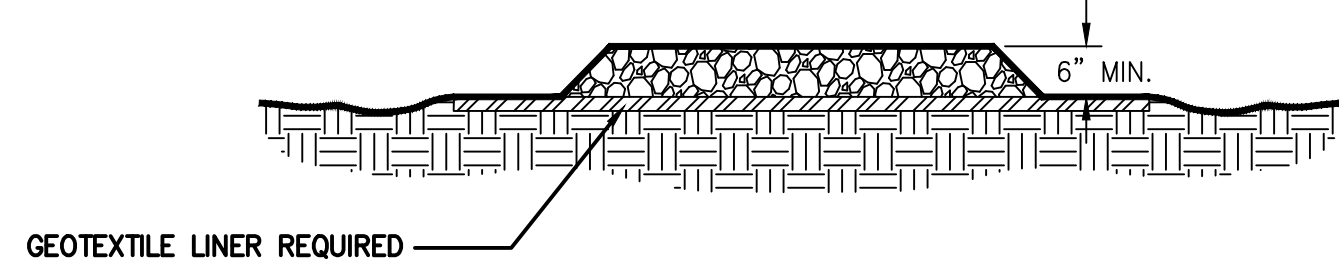
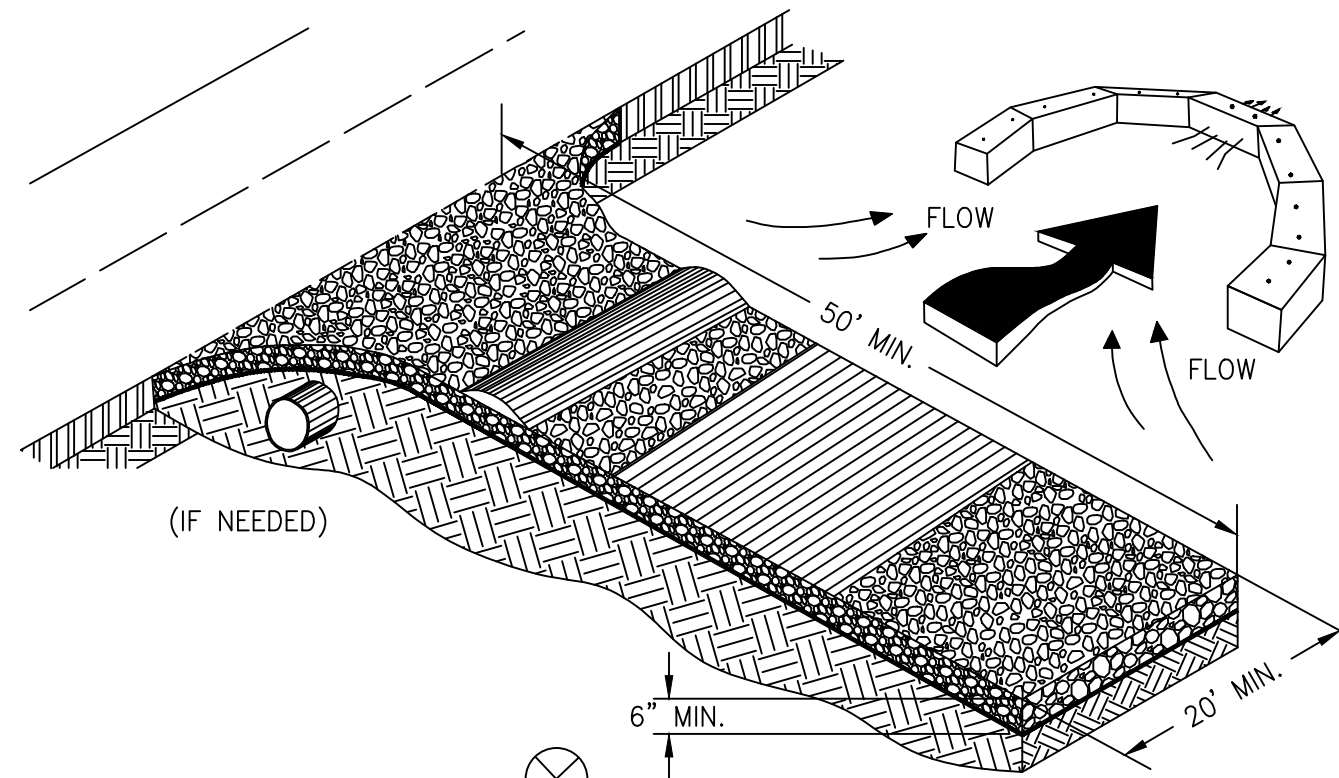


- NOTES:
1. USE TRENCHER (I.E. DITCH WHICH) TO CUT A 4"-5" W X 18" D TRENCH ALONG DRIP LINE (LIMIT OF CLEARING) AND BACKFILL WITH SAND AND LIGHTLY COMPACT.
 2. SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER-REBAR IS NOT TO BE USED FOR STAKES).
 3. MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS.
 4. DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA.
 5. FENCE SHALL BE ORANGE VINYL "SNOW FENCE" 4' HIGH MINIMUM.

CRUSHED STONE CONSTRUCTION EXIT

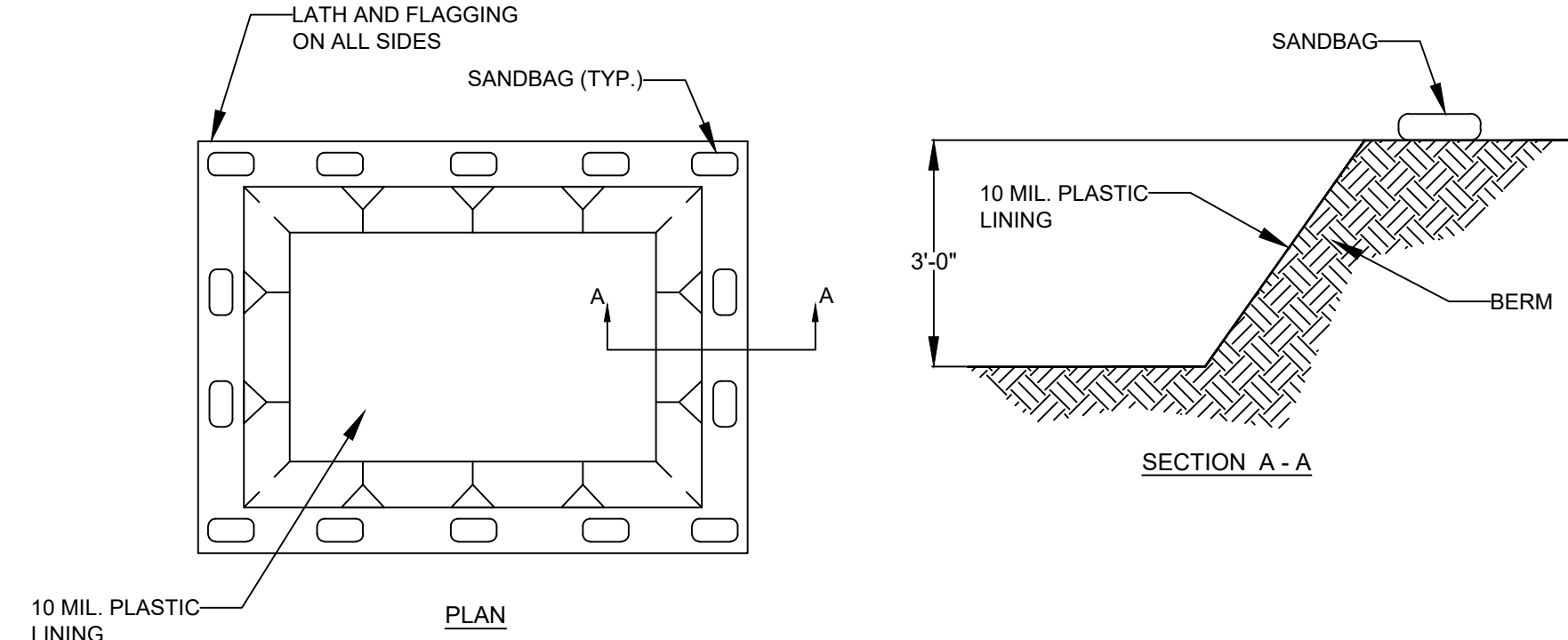


EXIT DIAGRAM



- 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 SHALL 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 REMOVES 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.

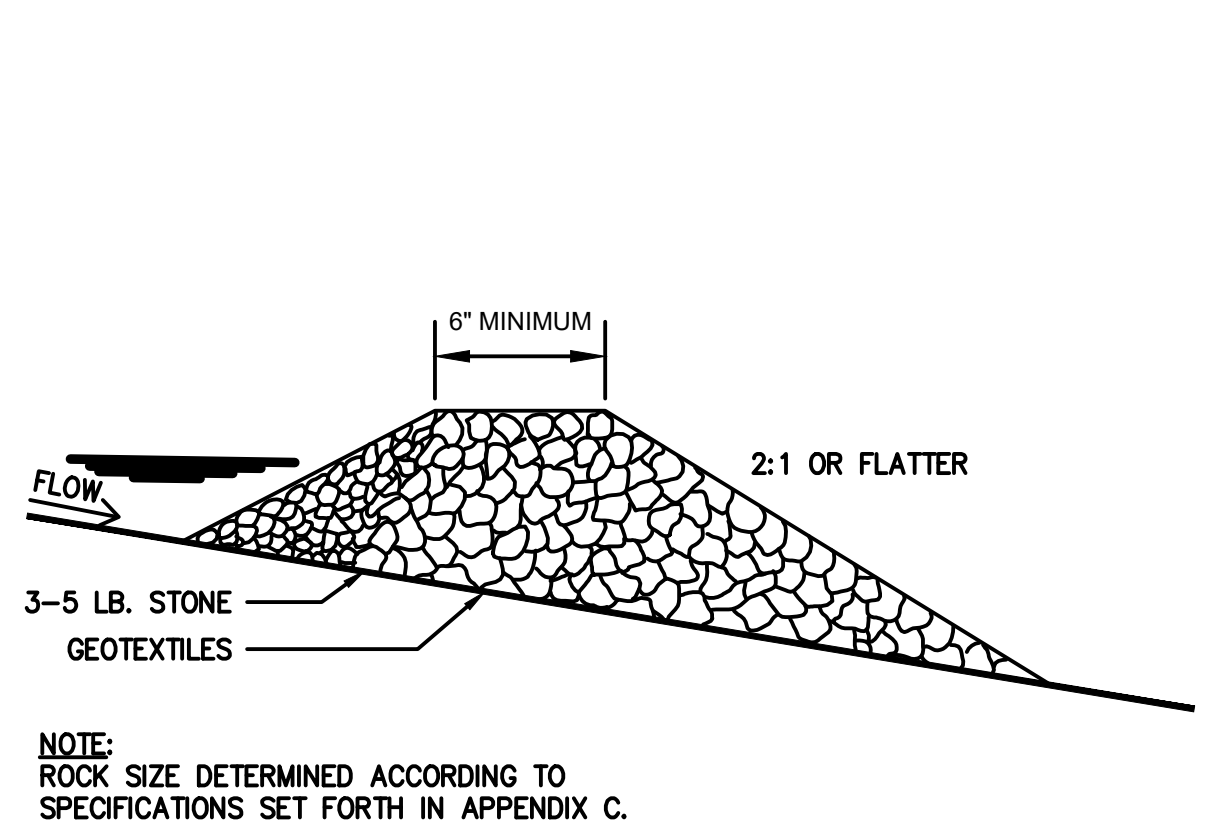
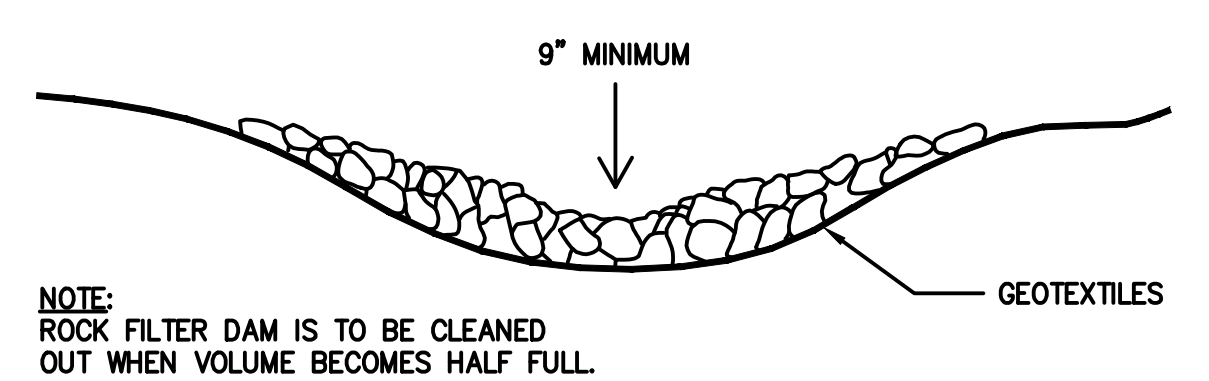
- NOTES:
1. THE CONTRACTOR SHALL PROVIDE A DESIGNATED AREA FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND THE REAR OF THE VEHICLES. THIS AREA MUST HAVE A CONCRETE WASHOUT FACILITY AND SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL SHOWN BELOW.
 2. THE CONCRETE WASHOUT FACILITY SHALL BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES.
 3. WASHOUT DISCHARGE FROM THE CLEANING OF CONCRETE TRUCKS, TOOLS, AND OTHER EQUIPMENT SHALL NOT BE DISCHARGED INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
 4. EXCESS CONCRETE SHALL NOT BE DISPOSED OF ONSITE. ALL EXCESS CONCRETE SHALL BE TRANSPORTED OFFSITE AND PROPERLY DISPOSED OF.
 5. IT IS PROHIBITED TO WASH OUT THE MIXING DRUM OF CONCRETE TRUCKS ONSITE.



CONCRETE WASH DOWN

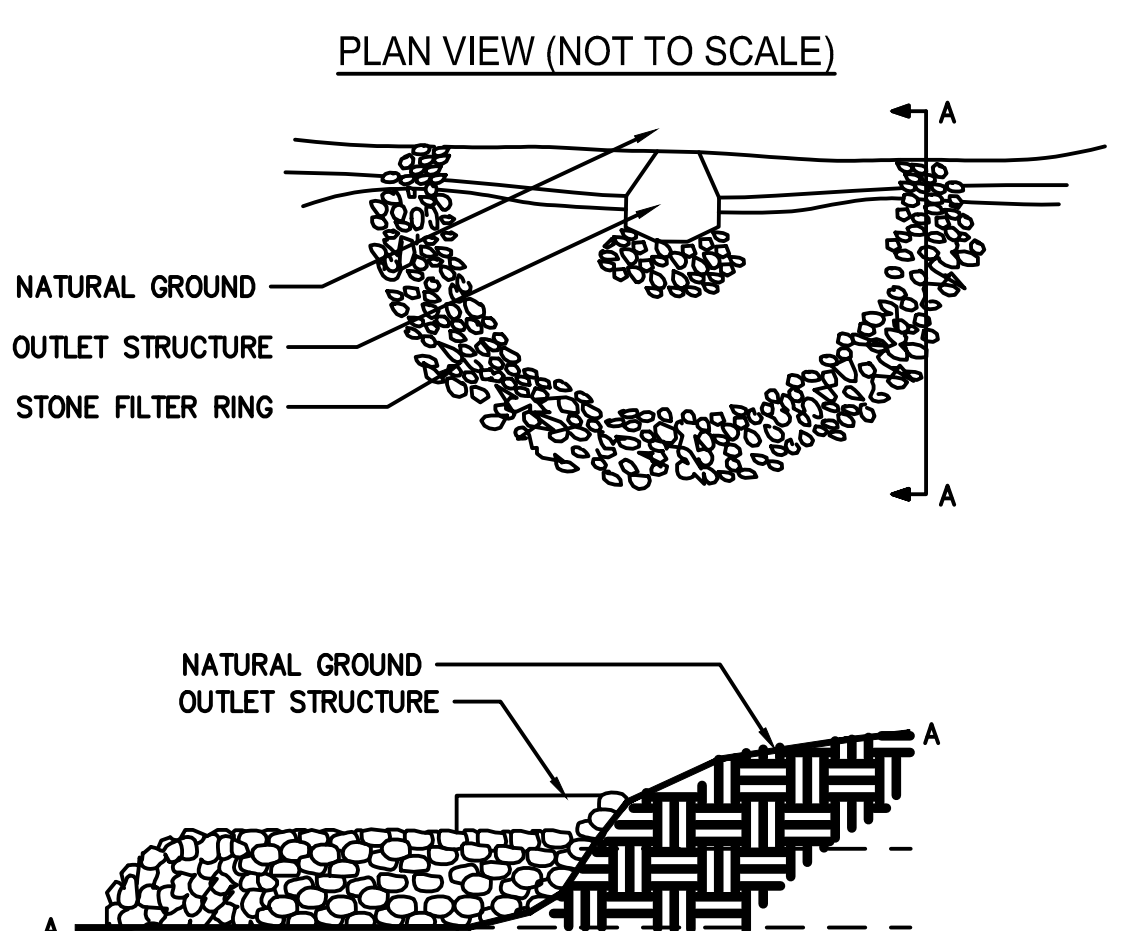
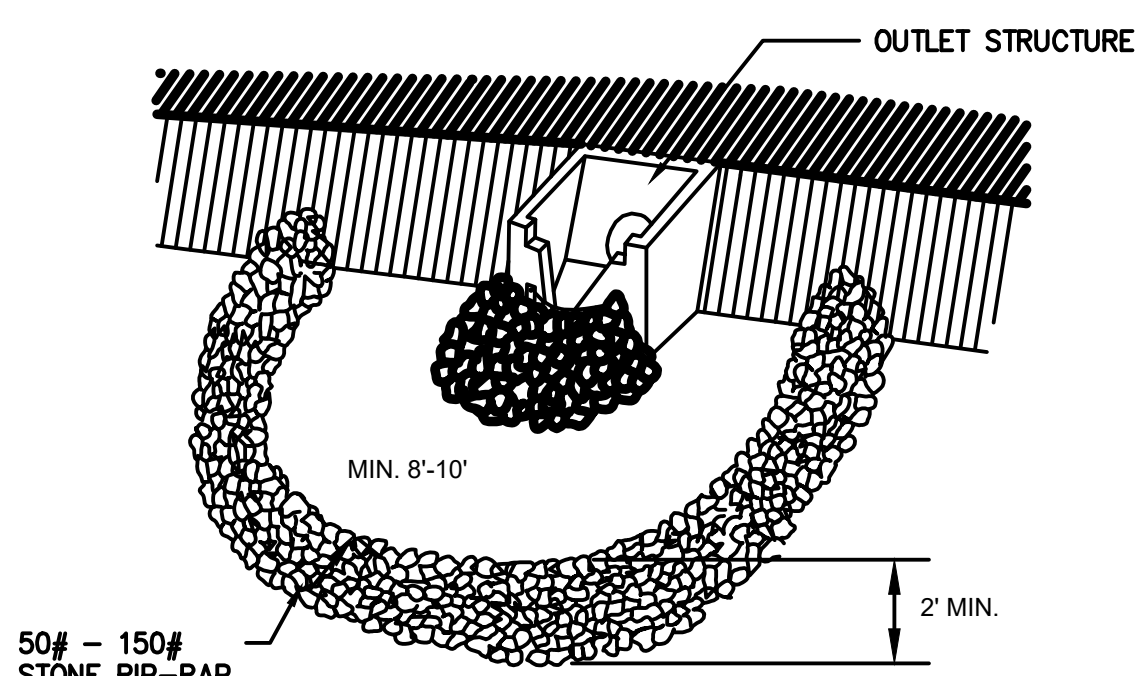
SCALE: N.T.S.

ROCK FILTER DAM



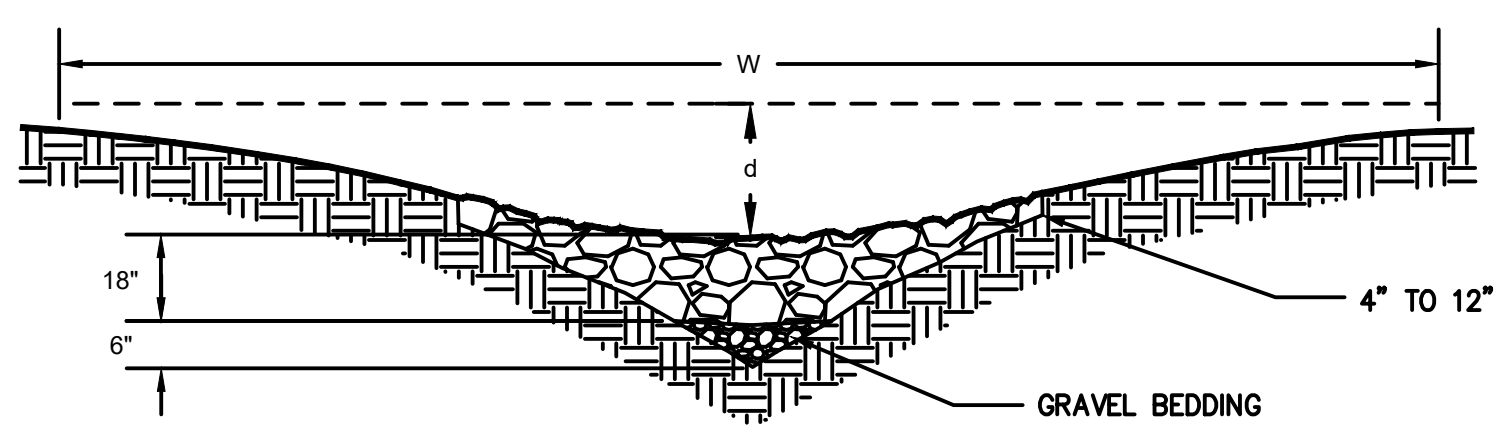
STONE FILTER RING

PERSPECTIVE VIEW

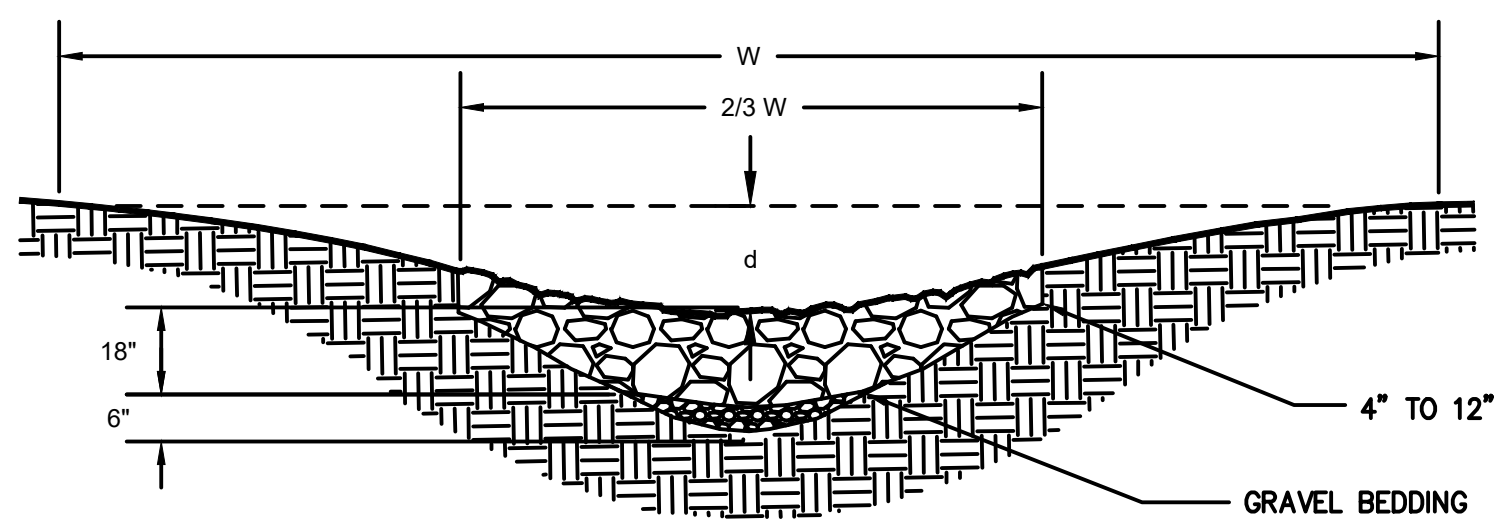


STONE CENTER WATERWAYS

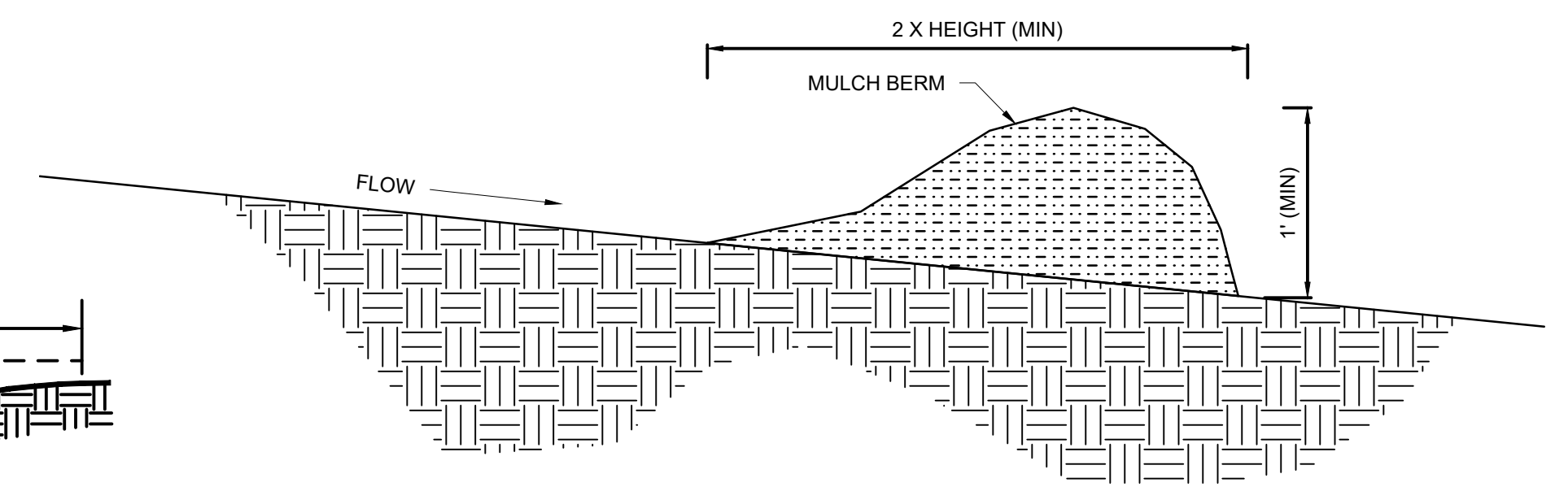
WATERWAY WITH STONE CENTER DRAIN AND V-SECTION SHAPED BY MOTOR GRADER



WATERWAY WITH STONE CENTER DRAIN AND ROUNDED SECTION SHAPED BY BULLDOZER



MULCH BERM



CROSS SECTION (NOT TO SCALE)

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PROJECT ENGINEER:	P. BAILEY
DESIGNED BY:	P. BAILEY
DRAWN BY:	HAZEN
CHECKED BY:	K. RAY
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

ESC CERT. ID#: 0000092856 EXP 01/08/2024
 GBPE LIC#: PE046288 EXP 12/31/2022

Hazen

HAZEN AND SAWYER
 1300 ALTMORE AVENUE
 SUITE 520
 ATLANTA, GEORGIA 30342

CITY OF GRIFFIN
 GRIFFIN, GEORGIA

HEADS CREEK RESERVOIR
 DAM REHABILITATION

EROSION, SEDIMENTATION,
 AND POLLUTION CONTROL
 DETAILS (2 OF 2)

DATE:	MARCH 2022
HAZEN NO.:	31252-015
CONTRACT NO.:	TO-15
DRAWING NUMBER:	ESC08

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 EPD HAS APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME.

Table with columns for Plan Page #, Included Y/N, and description of BMPs (a through s). Includes checkboxes and 'Y'/'N' indicators.

Effective January 1, 2022

* 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.a.(3)(a) - (c) of the permit.

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST

STAND ALONE CONSTRUCTION PROJECTS

Project Name: HEADS CREEK RESERVOIR DAM REHABILITATION Address: 40 NEW SALEM ROAD, GRIFFIN, GA 30223 City/County: SPALDING COUNTY Date on Plans: DECEMBER 2021

Name & email of person filling out checklist: PATRICK BAILEY, PBAILEY@HAZENANDSAWYER.COM

TO BE SHOWN ON ES&PC PLAN

Table with columns for Item #, Description, and checkboxes for ESC items (ESC 05, ESC 06, etc.).

SEDIMENT STORAGE VOLUME CHECK

DRAINAGE LOCATION A:

- 1. TOTAL DISTURBED AREA: 63 AC
2. REQUIRED STORAGE AREA: 63 AC x 67 CY/AC = 42.21 CY
3. BMP TYPE: Sd1-S (SILT FENCE, TYPE C)
3.1. TOTAL LENGTH OF Sd1-S: 1248 LF
3.2. THE TYPE C SILT FENCE (DOUBLE ROW) HAS A SEDIMENT STORAGE CAPACITY OF APPROXIMATELY 0.2 CY PER LINEAR FOOT...

Sd1-S STORAGE VOLUME: 1248 LF x 0.2 CY/LF = 249.6 CY
DOES CAPACITY MEET OR EXCEED REQUIRED STORAGE VOLUME? YES

DRAINAGE LOCATION B:

- 1. TOTAL DISTURBED AREA: 3.00 AC
2. REQUIRED STORAGE AREA: 3.00 AC x 67 CY/AC = 201 CY
3. BMP TYPE 1: Sd1-S (SILT FENCE, TYPE C)
3.1. TOTAL LENGTH OF Sd1-S: 1163 LF
3.2. THE TYPE C SILT FENCE (DOUBLE ROW) HAS A SEDIMENT STORAGE CAPACITY OF APPROXIMATELY 0.2 CY PER LINEAR FOOT...

Sd1-S STORAGE VOLUME: 1163 LF x 0.2 CY/LF = 232.6 CY
DOES CAPACITY MEET OR EXCEED REQUIRED STORAGE VOLUME? YES

DRAINAGE LOCATION C:

- 1. TOTAL DISTURBED AREA: 5.4 AC
2. REQUIRED STORAGE AREA: 5.4 AC x 67 CY/AC = 361.8 CY
3. BMP TYPE: Sd1-S (SILT FENCE, TYPE C)
3.1. TOTAL LENGTH OF Sd1-S: 2140 LF
3.2. THE TYPE C SILT FENCE (DOUBLE ROW) HAS A SEDIMENT STORAGE CAPACITY OF APPROXIMATELY 0.2 CY PER LINEAR FOOT...

Sd1-S STORAGE VOLUME: 2140 LF x .2 CY/LF = 428
DOES CAPACITY MEET OR EXCEED REQUIRED STORAGE VOLUME? YES

Table with columns for Item #, Description, and checkboxes for ESC items (ESC 05, ESC 06, etc.).

DRAINAGE LOCATION D:

- 1. TOTAL DISTURBED AREA: 3.50 AC
2. REQUIRED STORAGE AREA: 3.50 AC x 67 CY/AC = 234.5 CY
3. BMP TYPE 1: Sd1-S (SILT FENCE, TYPE C)
3.1. TOTAL LENGTH OF Sd1-S: 468 LF
3.2. THE TYPE C SILT FENCE (DOUBLE ROW) HAS A SEDIMENT STORAGE CAPACITY OF APPROXIMATELY 0.2 CY PER LINEAR FOOT...

Sd1-S STORAGE VOLUME: 468 LF x 0.2 CY/LF = 93.6 CY
Cd-F STORAGE VOLUME: 105 LF x 0.05 CY/LF = 5.25 CY
Rd STORAGE VOLUME: 250 LF x .83 CY/LF = 207.5 CY
DOES CAPACITY MEET OR EXCEED REQUIRED STORAGE VOLUME? YES

Table with columns for Item #, Description, and checkboxes for ESC items (ESC 05, ESC 06, etc.). Includes graphic scale and North arrow.

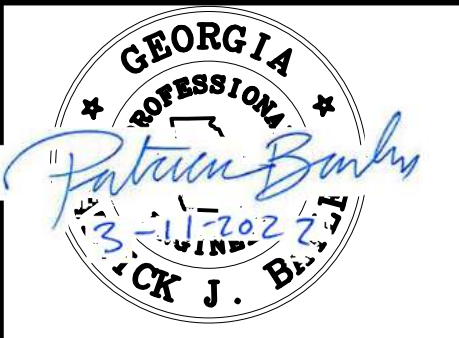
DRAINAGE LOCATION E:

- 1. TOTAL DISTURBED AREA: 1.54 AC
2. REQUIRED STORAGE AREA: 1.54 AC x 67 CY/AC = 103.2 CY
3. BMP TYPE: Sd1-S (SILT FENCE, TYPE C)
3.1. TOTAL LENGTH OF Sd1-S: 304 LF
3.2. THE TYPE C SILT FENCE (DOUBLE ROW) HAS A SEDIMENT STORAGE CAPACITY OF APPROXIMATELY 0.2 CY PER LINEAR FOOT...

Sd1-S STORAGE VOLUME: 304 LF x 0.2 CY/LF = 60.8 CY
Rd STORAGE VOLUME: 60 LF x .83CY/LF = 50CY
DOES CAPACITY MEET OR EXCEED REQUIRED STORAGE VOLUME? YES

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Table with columns for Project Engineer (P. BAILEY), Designed By (P. BAILEY), Drawn By (HAZEN), Checked By (K. RAY), and revision table.



ESC CERT. ID#: 0000092856 EXP 01/08/2024 GBPE Lic#: PE046288 EXP 12/31/2022



CITY OF GRIFFIN
GRIFFIN, GEORGIA
HEADS CREEK RESERVOIR
DAM REHABILITATION

EROSION, SEDIMENTATION, AND POLLUTION CONTROL CHECKLIST

Table with fields for Date (MARCH 2022), Hazen No. (31252-015), Contract No. (TO-15), Drawing Number (ESC09).