CITY OF DUBLIN
ADDENDUM #8
BID #26-02-002
FIXED AND PORTABLE GENERATOR INSTALLATIONS

DATE: March 20, 2026

TO: Fixed and Portable Generator Installation Bidders

FROM: David Sawyer, Purchasing Director

SUBJECT: Adding Erosion Control Plans

Attached are the erosion control plans for the fixed and portable generator installations.

Be sure to submit this signed form with your proposal to acknowledge your receipt of the addendum. Failure to return signed addendum may result in disqualification of proposal.

I have read the above change to the original bid and will submit my bid accordingly.

Bidder: ____

______________________________________ ____________
Signature **Date**

FIXED AND PORTABLE GENERATOR INSTALLATIONS EROSION CONTROL PLANS

FEMA HAZARD MITIGATION GRANT PROGRAM (HMGP)
FEMA PROJECT NUMBER: HMGP 4400-0025

DUBLIN, GA 31021
LAURENS COUNTY

PROJECT NUMBER: 2025178
DATE: MARCH 18, 2026

Index of Locations

MAP ID	PUMP STATION	ADDRESS
1	ACADEMY EXTENSION PUMP STATION	1010 HONEYSUCKLE ROAD
2	AIRPORT PUMP STATION	599 AIRPORT ROAD
3	ALABAMA PUMP STATION	808 ALABAMA STREET
4	EMERGENCY REPLACEMENT WATER WELL	200 TRUXTON STREET
5	EXISTING WATER WELL	EAST MADISON & SOUTH UNION STREET
6	HOLIDAY INN PUMP STATION - PORTABLE GENERATOR	2186 HOLIDAY INN ROAD
7	CARVER STREET PUMP STATION - PORTABLE GENERATOR	1251 CARVER STREET
8	HWY 19 PUMP STATION	1572 HWY 19 SOUTH
9	I-16 WEST BOUND PUMP STATION	12063 I-16
10	LOVES PUMP STATION	63 WALDREP ROAD
11	RAW WATER PUMP STATION	101 PARKER DAIRY ROAD
12	SURFACE WATER TREATMENT PLANT	106 PARKER DAIRY ROAD
13	WASTEWATER TREATMENT PLANT	250 RIVERVIEW DRIVE
14	WEST LAURENS PUMP STATION	297 WEST LAURENS SCHOOL ROAD
15	WASHINGTON STREET PUMP STATION	1106 SOUTH WASHINGTON STREET

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C6.02	EROSION CONTROL AIRPORT PUMP STATION
C6.03	EROSION CONTROL ALABAMA PUMP STATION
C6.04	EROSION CONTROL TRUXTON EMERGENCY REPLACEMENT WATER WELL
C6.05	EROSION CONTROL UNION EXISTING WATER WELL
C6.06	EROSION CONTROL HOLIDAY INN PUMP STATION
C6.07	EROSION CONTROL CARVER STREET PUMP STATION
C6.08	EROSION CONTROL HWY 19 PUMP STATION
C6.09	EROSION CONTROL 1-16 WEST BOUND PUMP STATION
C6.10	EROSION CONTROL LOVES PUMP STATION
C6.11	EROSION CONTROL PARKER DAIRY RAW WATER PUMP STATION
C6.12	EROSION CONTROL PARKER DAIRY SURFACE WATER TREATMENT PLANT
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C6.14	EROSION CONTROL WEST LAURENS PUMP STATION
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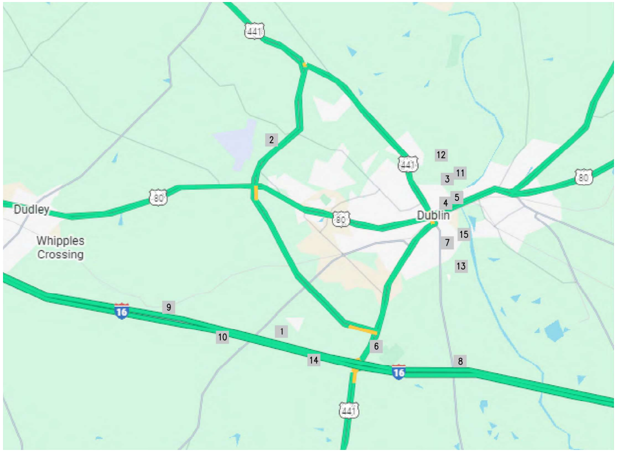
C6.16	EROSION CONTROL DETAILS
C6.17	EROSION CONTROL DETAILS
C6.18	EROSION CONTROL NOTES
C6.19	EROSION CONTROL CHECKLIST
C6.20	EROSION CONTROL DETAILS



TOTAL LIMITS OF DISTURBANCE = 0.59 ACRES

24 HR CONTACT:
CITY OF DUBLIN
MATTHEW BRADSHAW
TEL: 478.272.5045
EMAIL: BRADSHAWM@DUBLINGA.ORG

GEORGIA811
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Contact 811 before you dig.

No. PE038522
BRIAN T. ELLINGTON

LEVEL II DESIGN
PROFESSIONAL NUMBER 94328
EXPIRES: 05/14/2027

CLIENT

CITY OF DUBLIN
100 S CHURCH ST
DUBLIN, GA 31021
PHONE: 478.272.1620

FIXED AND PORTABLE GENERATOR INSTALLATIONS EROSION CONTROL PLANS

DUBLIN, GA 31021

CHRISTIAN & ELLINGTON
ENGINEERING | LAND SURVEYING
709 BELLEVUE AVENUE DUBLIN, GEORGIA 31021
(478) 272-3013 | PEF005476

REVISIONS

NO.	DATE	
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

PLAN INFORMATION

PROJECT NO. 2025178
FILENAME 2025178-ESPC
CHECKED BY JLC
DRAWN BY BTE
SCALE ########
DATE 03. 18. 2026

SHEET

FIXED AND PORTABLE GENERATOR
INSTALLATIONS EROSION CONTROL PLANS

DUBLIN, GA 31021
PROJECT NUMBER: 2025178

K:_Project Files\2025178 River Pump Station Bore\CAD\2025178-ESPC.dwg, 3/19/2026 10:28:31 AM, Drafting Computer

EROSION CONTROL LEGEND

—SF——SF——SF—	SILT FENCE
—TP——TP——TP—	TREE PROTECTION FENCE
—LD————LD—	LIMITS OF DISTURBANCE
▨	CONSTRUCTION ENTRANCE/EXIT
○	INLET PROTECTION

EROSION CONTROL NOTES (FOR LAND DISTURBANCE UNDER 1.0 ACRE):

1. EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL AND SHALL COMPLY WITH THE STANDARDS/SPECIFICATIONS IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
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FEMA FLOODPLAIN NOTE:

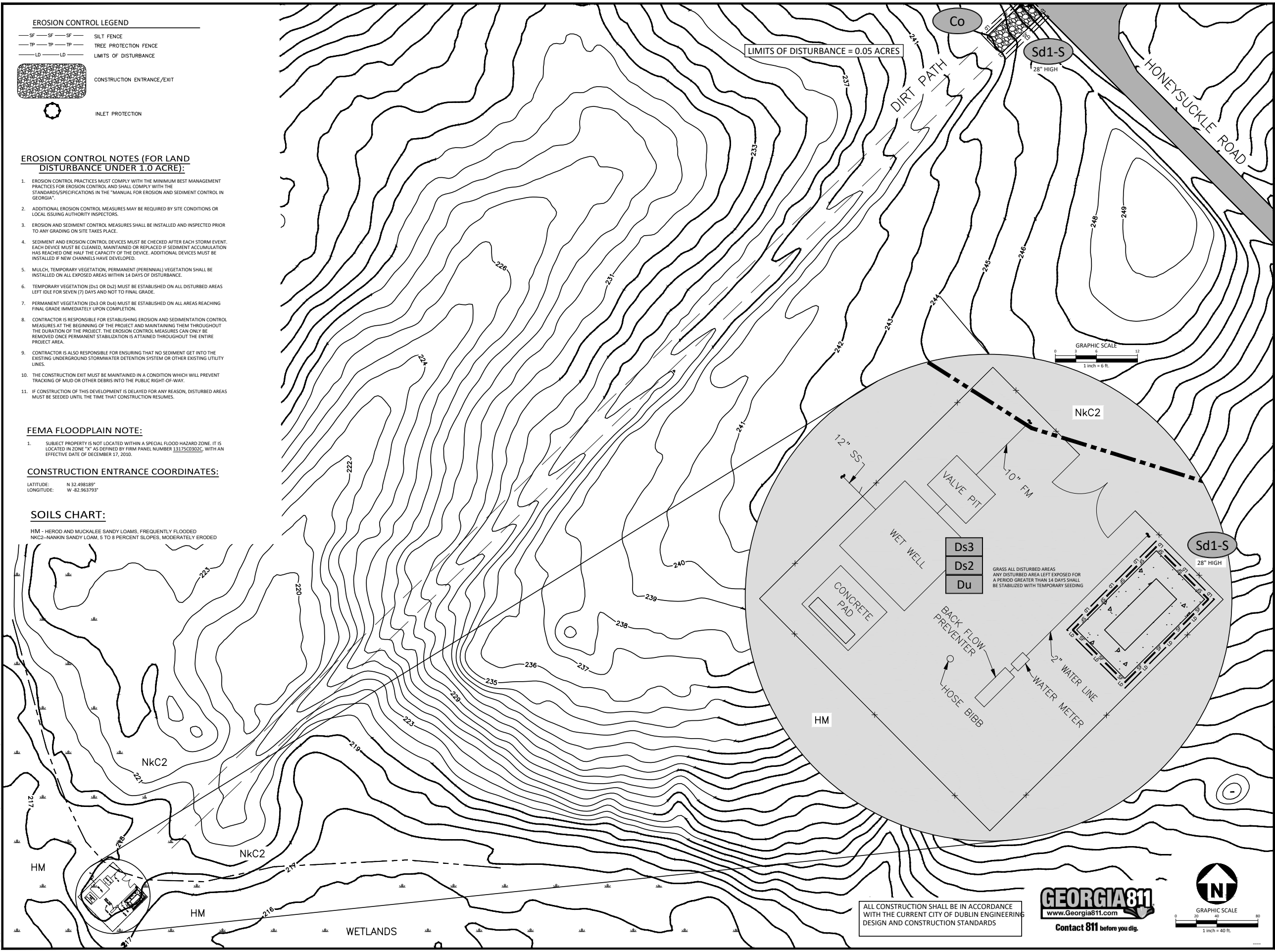
1. SUBJECT PROPERTY IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "X" AS DEFINED BY FIRM PANEL NUMBER 13175C0302C, WITH AN EFFECTIVE DATE OF DECEMBER 17, 2010.

CONSTRUCTION ENTRANCE COORDINATES:

LATITUDE:	N 32.498189°
LONGITUDE:	W -82.963793°

SOILS CHART:

HM - HEROD AND MUCKALEE SANDY LOAMS, FREQUENTLY FLOODED
NKC2--NANKIN SANDY LOAM, 5 TO 8 PERCENT SLOPES, MODERATELY ERODED



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GEORGIA 811
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GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE038522
BRIAN T. ELLINGTON

LEVEL II DESIGN
PROFESSIONAL NUMBER 94328
EXPIRES: 05/14/2027

CLIENT

CITY OF DUBLIN
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FIXED AND PORTABLE GENERATOR INSTALLATIONS EROSION CONTROL PLANS

DUBLIN, GA 31021

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REVISIONS

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PLAN INFORMATION

PROJECT NO.	2025178
FILENAME	2025178-ESPC
CHECKED BY	JLC
DRAWN BY	BTE
SCALE	1"=40'
DATE	03. 18. 2026

SHEET

EROSION CONTROL ACADEMY
EXTENSION PUMP STATION

C6.01

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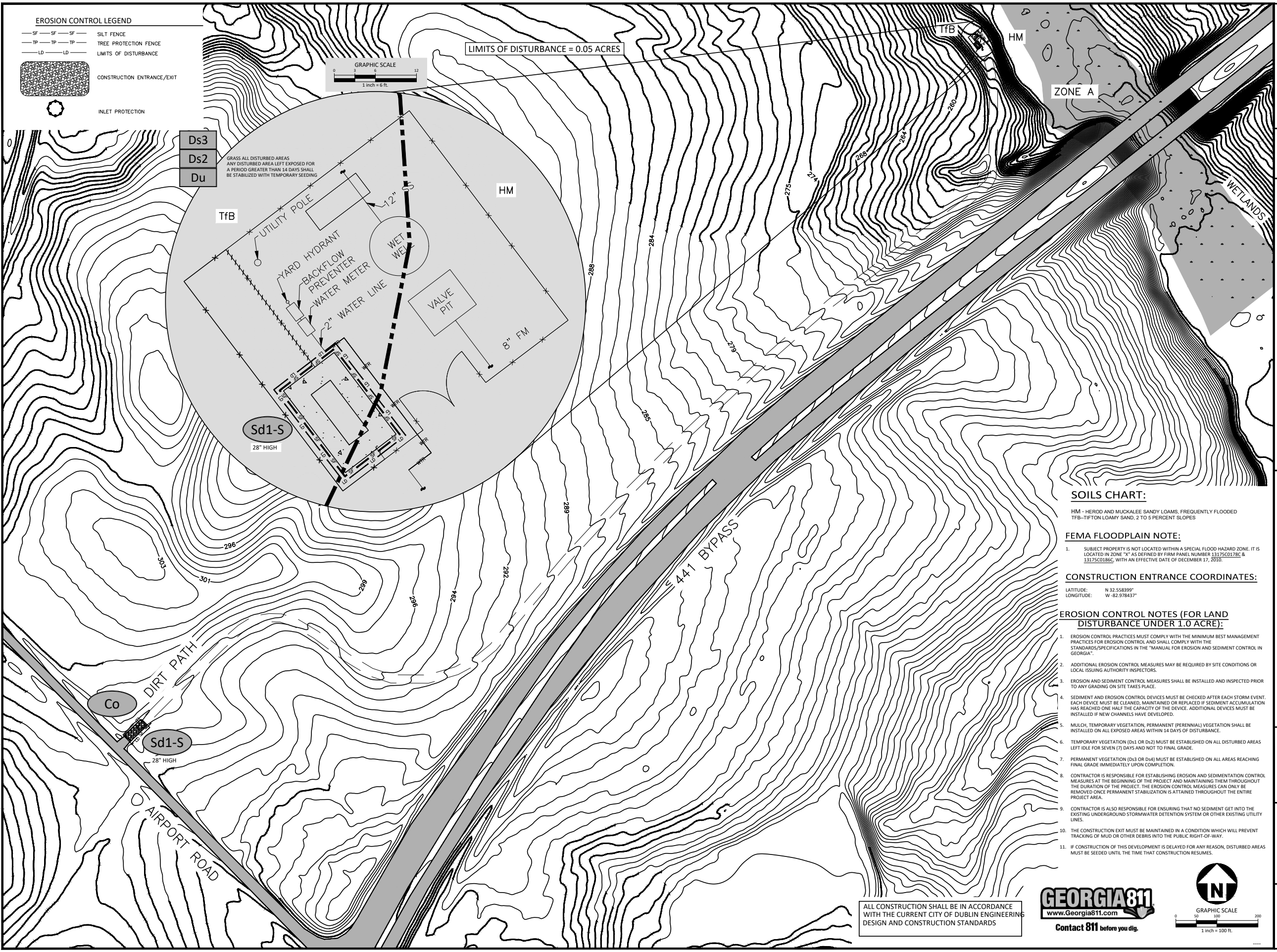
EROSION CONTROL LEGEND

—SF—SF—SF—	SILT FENCE
—TP—TP—TP—	TREE PROTECTION FENCE
—LD—LD—	LIMITS OF DISTURBANCE
▨	CONSTRUCTION ENTRANCE/EXIT
○	INLET PROTECTION



SOILS CHART:

HM - HEROD AND MUCKALEE SANDY LOAMS, FREQUENTLY FLOODED
TFB--TIFTON LOAMY SAND, 2 TO 5 PERCENT SLOPES

FEMA FLOODPLAIN NOTE:

1. SUBJECT PROPERTY IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "X" AS DEFINED BY FIRM PANEL NUMBER 13175C0178C & 13175C0186C, WITH AN EFFECTIVE DATE OF DECEMBER 17, 2010.

CONSTRUCTION ENTRANCE COORDINATES:

LATITUDE:	N 32.558399°
LONGITUDE:	W -82.978437°

EROSION CONTROL NOTES (FOR LAND DISTURBANCE UNDER 1.0 ACRE):

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N
GRAPHIC SCALE
0 50 100 200
1 inch = 100 ft.

BRIAN T. ELLINGTON
No. PE038522

LEVEL II DESIGN
PROFESSIONAL NUMBER 94328
EXPIRES: 05/14/2027

CLIENT

CITY OF DUBLIN
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FIXED AND PORTABLE GENERATOR INSTALLATIONS EROSION CONTROL PLANS

DUBLIN, GA 31021

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REVISIONS

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6	-	-

PLAN INFORMATION

PROJECT NO.	2025178
FILENAME	2025178-ESPC
CHECKED BY	JLC
DRAWN BY	BTE
SCALE	1"=100'
DATE	03. 18. 2026

SHEET

EROSION CONTROL AIRPORT PUMP STATION

C6.02

K:_Project Files\2025178 River Pump Station Bore\CAD\2025178-ESPC.dwg, 3/19/2026 10:29:18 AM, Drafting Computer

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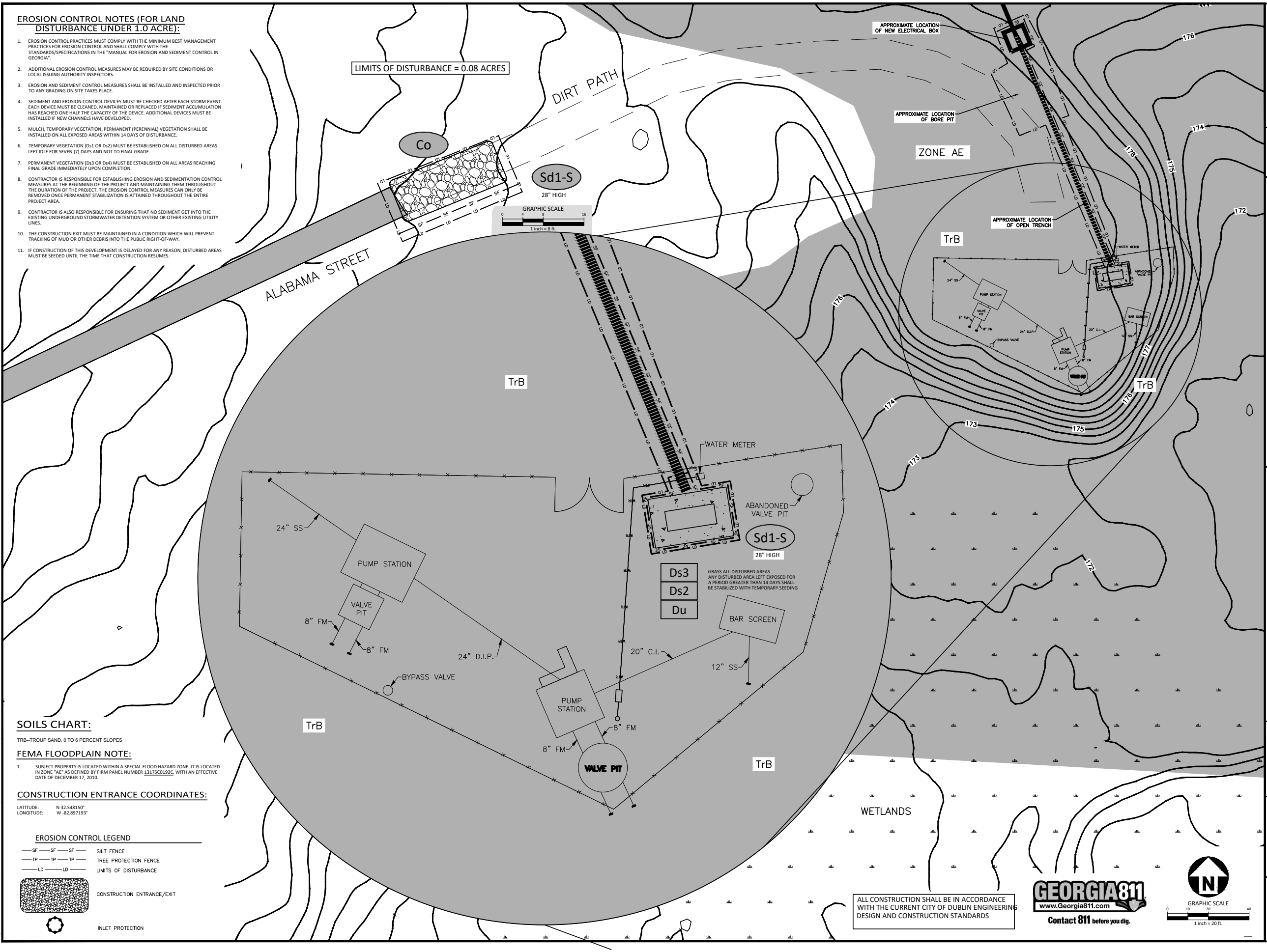

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SOILS CHART:

TRB--TROUP SAND, 0 TO 6 PERCENT SLOPES

FEMA FLOODPLAIN NOTE:

1. SUBJECT PROPERTY IS LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "AE" AS DEFINED BY FIRM PANEL NUMBER 13175C0192C, WITH AN EFFECTIVE DATE OF DECEMBER 17, 2010.

CONSTRUCTION ENTRANCE COORDINATES:

LATITUDE:	N 32.548150°
LONGITUDE:	W -82.897193°

EROSION CONTROL LEGEND

—SF—SF—SF—	SILT FENCE
—TP—TP—TP—	TREE PROTECTION FENCE
—LD—LD—	LIMITS OF DISTURBANCE
▨	CONSTRUCTION ENTRANCE/EXIT
○	INLET PROTECTION

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No. PE038522
BRIAN T. ELLINGTON

LEVEL II DESIGN
PROFESSIONAL NUMBER 94328
EXPIRES: 05/14/2027

CLIENT

CITY OF DUBLIN
100 S CHURCH ST
DUBLIN, GA 31021
PHONE: 478.272.1620

FIXED AND PORTABLE GENERATOR INSTALLATIONS EROSION CONTROL PLANS

DUBLIN, GA 31021

CHRISTIAN & ELLINGTON
ENGINEERING | LAND SURVEYING
709 BELLEVUE AVENUE DUBLIN,
GEORGIA 31021
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REVISIONS

NO.	DATE	
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PLAN INFORMATION

PROJECT NO.	2025178
FILENAME	2025178-ESPC
CHECKED BY	JLC
DRAWN BY	BTE
SCALE	1"=20'
DATE	03. 18. 2026

SHEET

EROSION CONTROL ALABAMA PUMP STATION

C6.03

EROSION CONTROL LEGEND

—SF—SF—SF—	SILT FENCE
—TP—TP—TP—	TREE PROTECTION FENCE
—LD—LD—	LIMITS OF DISTURBANCE
▨	CONSTRUCTION ENTRANCE/EXIT
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SOILS CHART:

TFB--TIFTON LOAMY SAND, 2 TO 5 PERCENT SLOPES

EROSION CONTROL NOTES (FOR LAND DISTURBANCE UNDER 1.0 ACRE):

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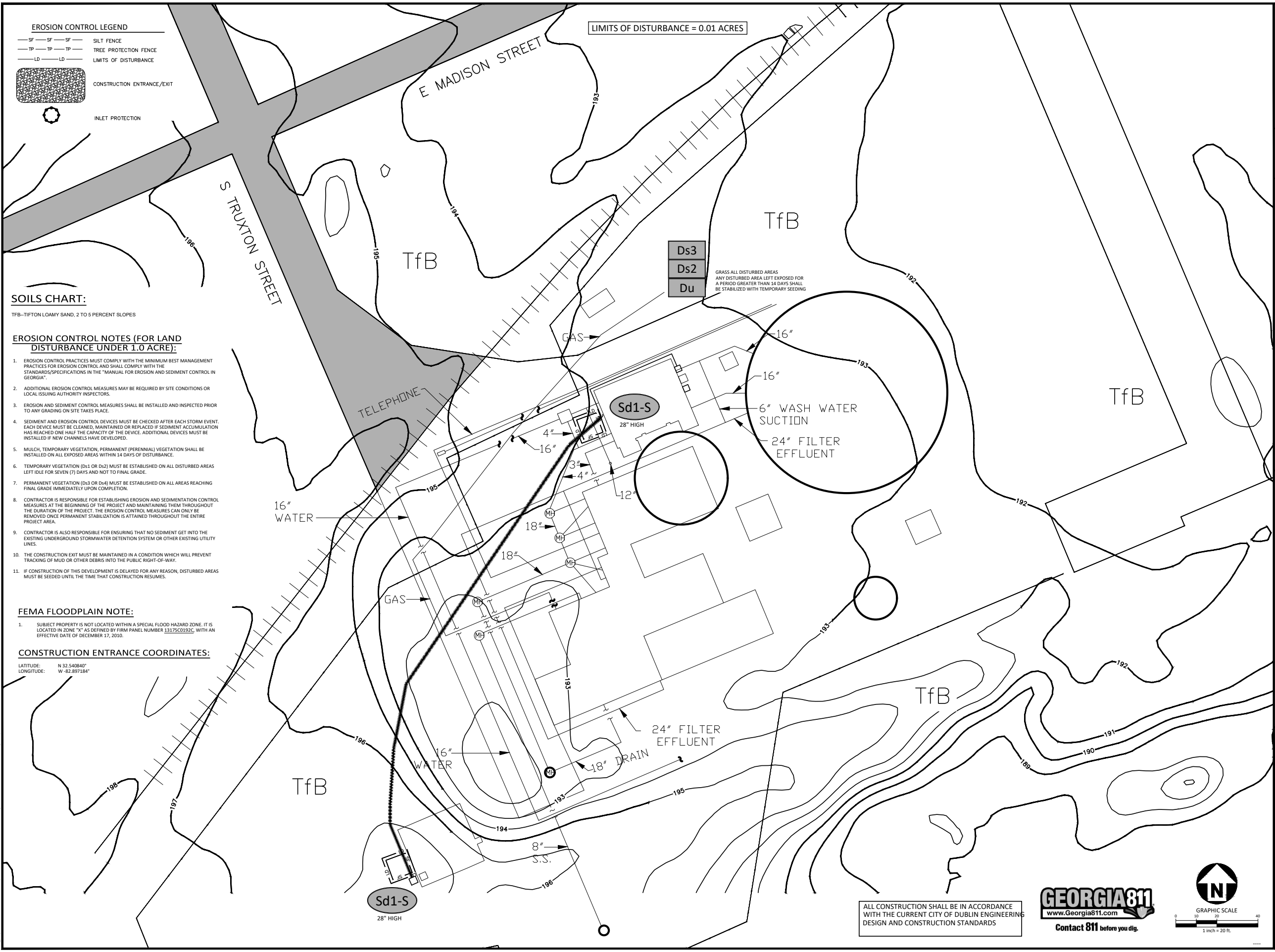
CONSTRUCTION ENTRANCE COORDINATES:

LATITUDE:	N 32.540840°
LONGITUDE:	W -82.897184°

LIMITS OF DISTURBANCE = 0.01 ACRES



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REVISIONS

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6	-	-

PLAN INFORMATION

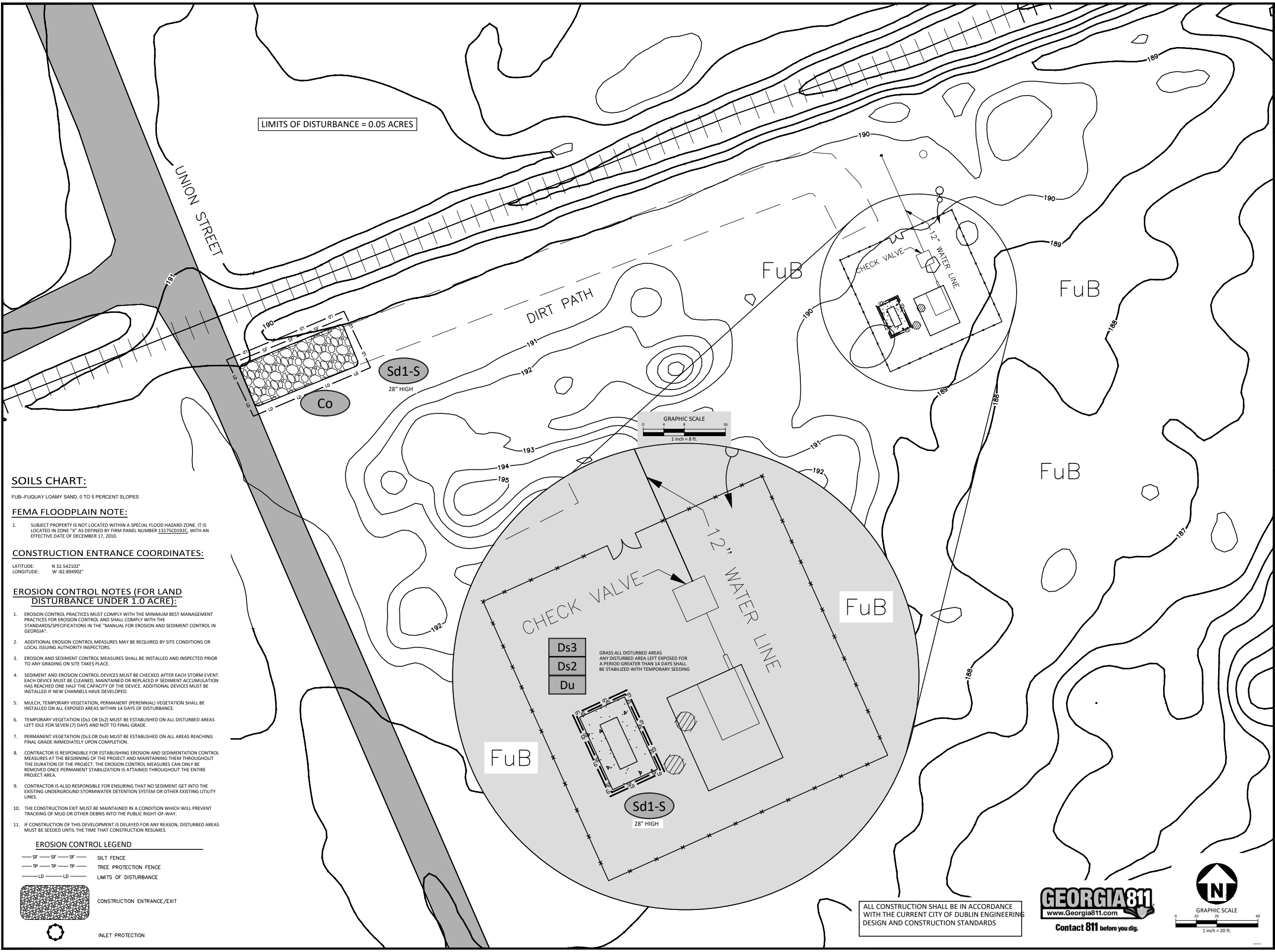
PROJECT NO. 2025178
FILENAME 2025178-ESPC
CHECKED BY JLC
DRAWN BY BTE
SCALE 1"=20'
DATE 03. 18. 2026

SHEET

EROSION CONTROL TRUXTON
EMERGENCY REPLACEMENT
WATER WELL

C6.04

K:_Project Files\2025178 River Pump Station Bore\CAD\2025178-ESPC.dwg, 3/19/2026 10:29:00 AM, Drafting Computer



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SOILS CHART:

FUB--FUQUAY LOAMY SAND, 0 TO 5 PERCENT SLOPES

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CONSTRUCTION ENTRANCE COORDINATES:

LATITUDE:	N 32.542102°
LONGITUDE:	W -82.894902°

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5. MULCH, TEMPORARY VEGETATION, PERMANENT (PERENNIAL) VEGETATION SHALL BE INSTALLED ON ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE.
6. TEMPORARY VEGETATION (Ds1 OR Ds2) MUST BE ESTABLISHED ON ALL DISTURBED AREAS LEFT IDLE FOR SEVEN (7) DAYS AND NOT TO FINAL GRADE.
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8. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING EROSION AND SEDIMENTATION CONTROL MEASURES AT THE BEGINNING OF THE PROJECT AND MAINTAINING THEM THROUGHOUT THE DURATION OF THE PROJECT. THE EROSION CONTROL MEASURES CAN ONLY BE REMOVED ONCE PERMANENT STABILIZATION IS ATTAINED THROUGHOUT THE ENTIRE PROJECT AREA.
9. CONTRACTOR IS ALSO RESPONSIBLE FOR ENSURING THAT NO SEDIMENT GET INTO THE EXISTING UNDERGROUND STORMWATER DETENTION SYSTEM OR OTHER EXISTING UTILITY LINES.
10. THE CONSTRUCTION EXIT MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF MUD OR OTHER DEBRIS INTO THE PUBLIC RIGHT-OF-WAY.
11. IF CONSTRUCTION OF THIS DEVELOPMENT IS DELAYED FOR ANY REASON, DISTURBED AREAS MUST BE SEEDED UNTIL THE TIME THAT CONSTRUCTION RESUMES.

EROSION CONTROL LEGEND

—SF—SF—SF—	SILT FENCE
—TP—TP—TP—	TREE PROTECTION FENCE
—LD—LD—	LIMITS OF DISTURBANCE
▨	CONSTRUCTION ENTRANCE/EXIT
○	INLET PROTECTION

K:_Project Files\2025178 River Pump Station Bore\CAD\2025178-ESPC.dwg, 3/19/2026 10:28:48 AM, Drafting Computer

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF DUBLIN ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE038522
BRIAN T. ELLINGTON

LEVEL II DESIGN
PROFESSIONAL NUMBER 94328
EXPIRES: 05/14/2027

CLIENT

CITY OF DUBLIN
100 S CHURCH ST
DUBLIN, GA 31021
PHONE: 478.272.1620

FIXED AND PORTABLE GENERATOR INSTALLATIONS EROSION CONTROL PLANS

DUBLIN, GA 31021

CE
CHRISTIAN & ELLINGTON
ENGINEERING | LAND SURVEYING
709 BELLEVUE AVENUE DUBLIN,
GEORGIA 31021
(478) 272-3013 | PEF005476

REVISIONS

NO.	DATE	
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

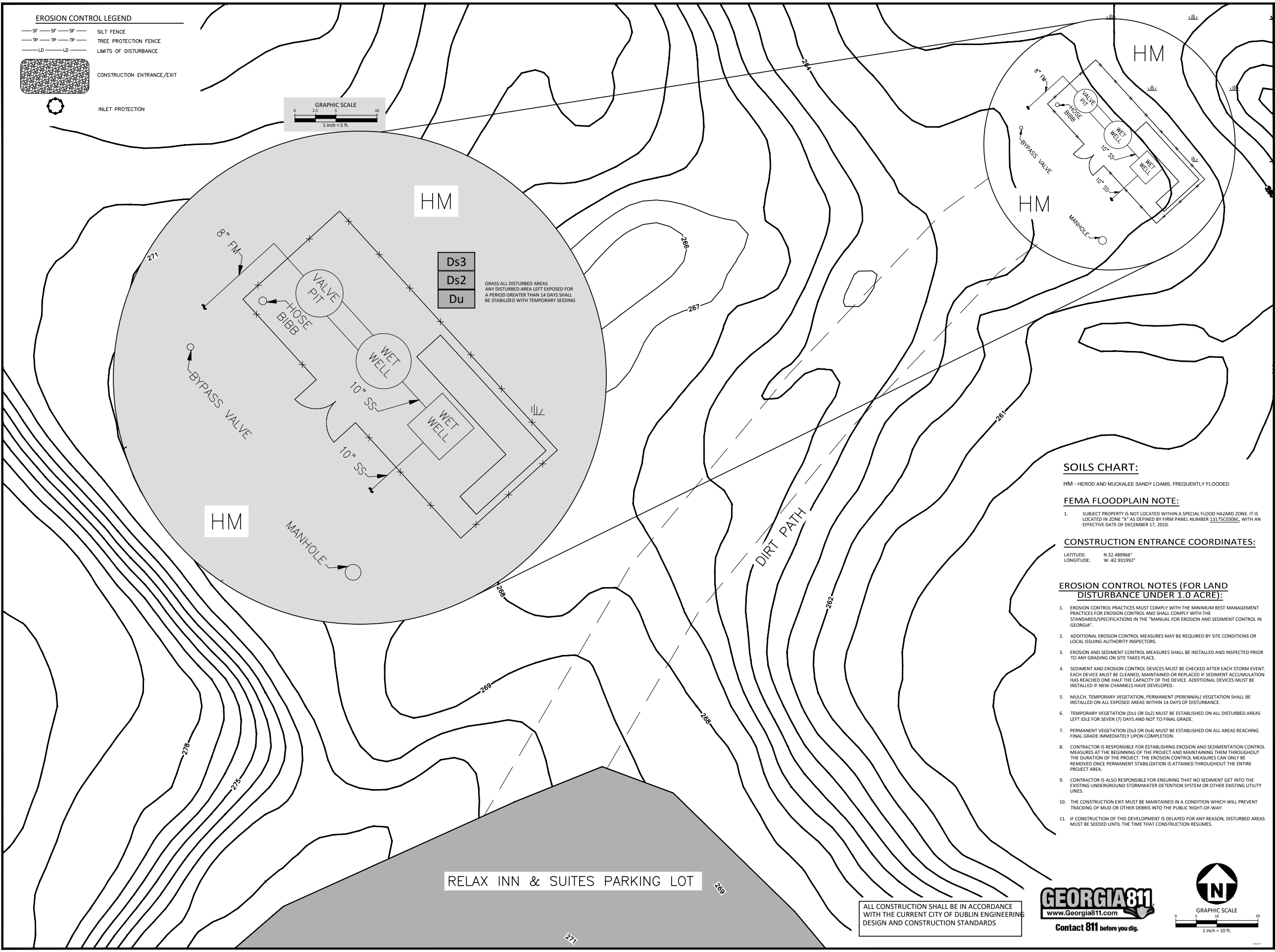
PLAN INFORMATION

PROJECT NO.	2025178
FILENAME	2025178-ESPC
CHECKED BY	JLC
DRAWN BY	BTE
SCALE	1"=20'
DATE	03. 18. 2026

SHEET

EROSION CONTROL UNION EXISTING WATER WELL

C6.05



EROSION CONTROL LEGEND

—SF—SF—SF—	SILT FENCE
—TP—TP—TP—	TREE PROTECTION FENCE
—LD—LD—	LIMITS OF DISTURBANCE
▨	CONSTRUCTION ENTRANCE/EXIT
○	INLET PROTECTION

GRASS ALL DISTURBED AREAS
ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING

SOILS CHART:

HM - HEROD AND MUCKALEE SANDY LOAMS, FREQUENTLY FLOODED

FEMA FLOODPLAIN NOTE:

1. SUBJECT PROPERTY IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "X" AS DEFINED BY FIRM PANEL NUMBER 13175C0306C, WITH AN EFFECTIVE DATE OF DECEMBER 17, 2010.

CONSTRUCTION ENTRANCE COORDINATES:

LATITUDE:	N 32.489966°
LONGITUDE:	W -82.931992°

EROSION CONTROL NOTES (FOR LAND DISTURBANCE UNDER 1.0 ACRE):

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ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF DUBLIN ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

No. PE038522
BRIAN T. ELLINGTON

LEVEL II DESIGN
PROFESSIONAL NUMBER 94328
EXPIRES: 05/14/2027

CLIENT

CITY OF DUBLIN
100 S CHURCH ST
DUBLIN, GA 31021
PHONE: 478.272.1620

FIXED AND PORTABLE GENERATOR INSTALLATIONS EROSION CONTROL PLANS

DUBLIN, GA 31021

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CHRISTIAN & ELLINGTON
ENGINEERING | LAND SURVEYING
709 BELLEVUE AVENUE DUBLIN,
GEORGIA 31021
(478) 272-3013 | PEF005476

REVISIONS

NO.	DATE	
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

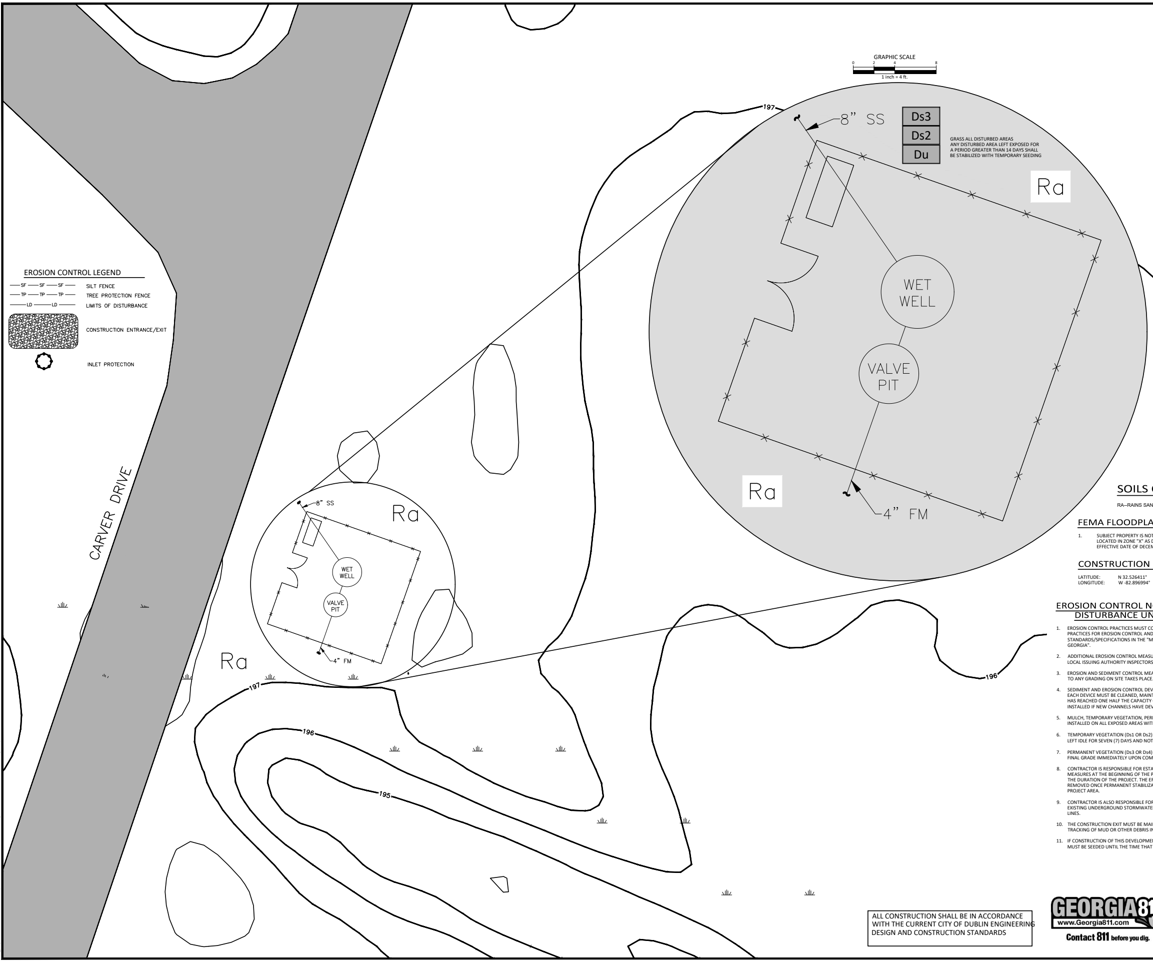
PLAN INFORMATION

PROJECT NO.	2025178
FILENAME	2025178-ESPC
CHECKED BY	JLC
DRAWN BY	BTE
SCALE	1"=10'
DATE	03. 18. 2026

SHEET

EROSION CONTROL HOLIDAY INN PUMP STATION

C6.06



GRASS ALL DISTURBED AREAS
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A PERIOD GREATER THAN 14 DAYS SHALL
BE STABILIZED WITH TEMPORARY SEEDING

EROSION CONTROL LEGEND

—SF—SF—SF—	SILT FENCE
—TP—TP—TP—	TREE PROTECTION FENCE
——LD——LD——	LIMITS OF DISTURBANCE
▨	CONSTRUCTION ENTRANCE/EXIT
○	INLET PROTECTION

SOILS CHART:

RA--RAINS SANDY LOAM

FEMA FLOODPLAIN NOTE:

1. SUBJECT PROPERTY IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "X" AS DEFINED BY FIRM PANEL NUMBER 13175C0194C, WITH AN EFFECTIVE DATE OF DECEMBER 17, 2010.

CONSTRUCTION ENTRANCE COORDINATES:

LATITUDE:	N 32.526411°
LONGITUDE:	W -82.896994°

EROSION CONTROL NOTES (FOR LAND DISTURBANCE UNDER 1.0 ACRE):

1. EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL AND SHALL COMPLY WITH THE STANDARDS/SPECIFICATIONS IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
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ALL CONSTRUCTION SHALL BE IN ACCORDANCE
WITH THE CURRENT CITY OF DUBLIN ENGINEERING
DESIGN AND CONSTRUCTION STANDARDS

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N
GRAPHIC SCALE
0 5 10 20
1 inch = 10 ft.

No. PE038522
BRIAN T. ELLINGTON

LEVEL II DESIGN
PROFESSIONAL NUMBER 94328
EXPIRES: 05/14/2027

CLIENT

CITY OF DUBLIN
100 S CHURCH ST
DUBLIN, GA 31021
PHONE: 478.272.1620

FIXED AND PORTABLE GENERATOR INSTALLATIONS EROSION CONTROL PLANS

DUBLIN, GA 31021

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GEORGIA 31021
(478) 272-3013 | PEF005476

REVISIONS

NO.	DATE	
1	-	-
2	-	-
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5	-	-
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PLAN INFORMATION

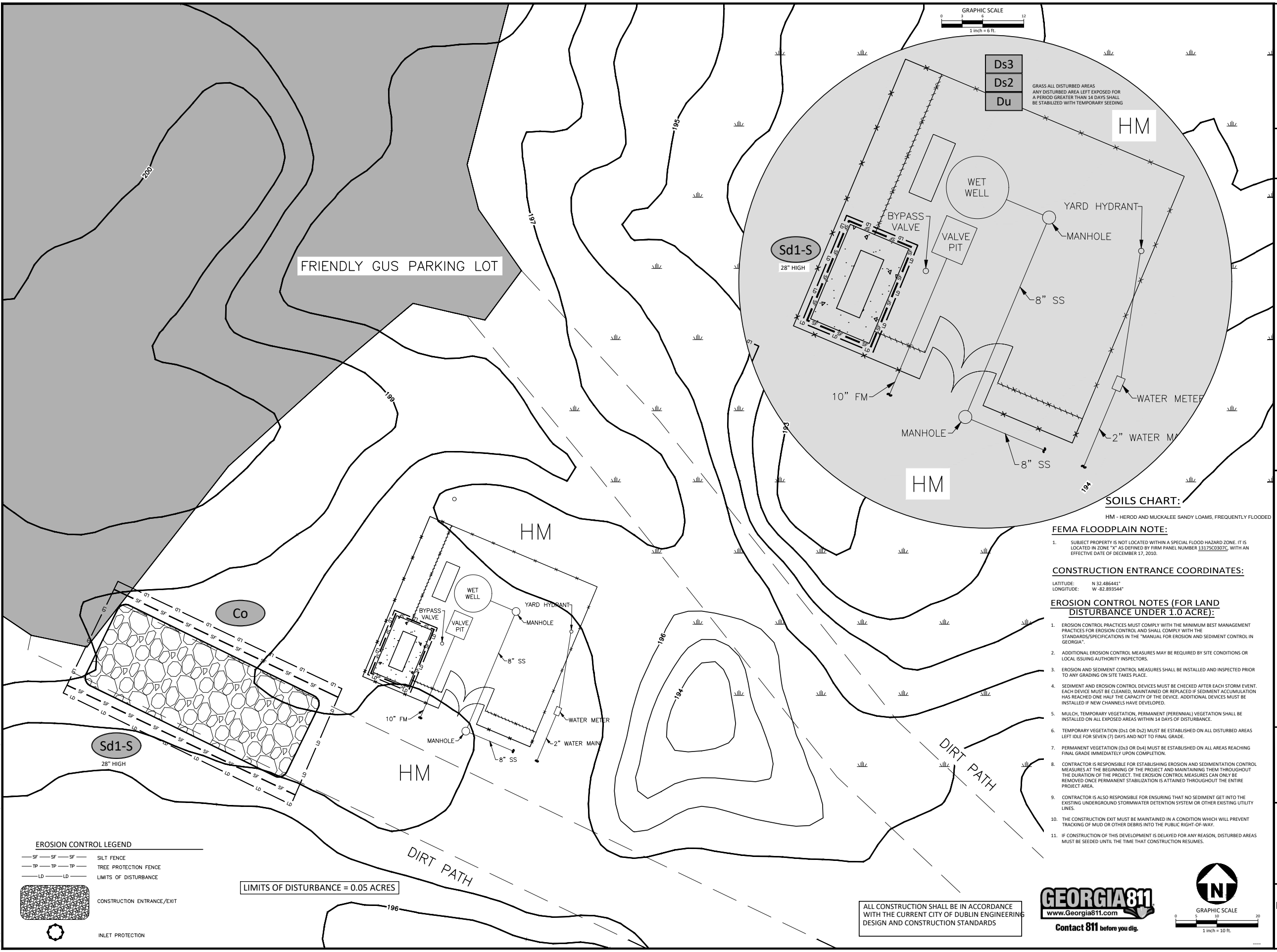
PROJECT NO.	2025178
FILENAME	2025178-ESPC
CHECKED BY	JLC
DRAWN BY	BTE
SCALE	1"=10'
DATE	03. 18. 2026

SHEET

EROSION CONTROL CARVER STREET PUMP STATION

C6.07

K:_Project Files\2025178 River Pump Station Bore\CAD\2025178-ESPC.dwg, 3/19/2026 10:28:50 AM, Drafting Computer



GRASS ALL DISTURBED AREAS
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LIMITS OF DISTURBANCE = 0.05 ACRES

EROSION CONTROL LEGEND

—SF—SF—SF—	SILT FENCE
—TP—TP—TP—	TREE PROTECTION FENCE
—LD—LD—	LIMITS OF DISTURBANCE
▨	CONSTRUCTION ENTRANCE/EXIT
○	INLET PROTECTION

SOILS CHART:

HM - HEROD AND MUCKALEE SANDY LOAMS, FREQUENTLY FLOODED

FEMA FLOODPLAIN NOTE:

1. SUBJECT PROPERTY IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "X" AS DEFINED BY FIRM PANEL NUMBER 13175C0307C, WITH AN EFFECTIVE DATE OF DECEMBER 17, 2010.

CONSTRUCTION ENTRANCE COORDINATES:

LATITUDE:	N 32.486441°
LONGITUDE:	W -82.893544°

EROSION CONTROL NOTES (FOR LAND DISTURBANCE UNDER 1.0 ACRE):

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ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF DUBLIN ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

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N
GRAPHIC SCALE
0 5 10 20
1 inch = 10 ft.

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GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE038522
BRIAN T. ELLINGTON

LEVEL II DESIGN
PROFESSIONAL NUMBER 94328
EXPIRES: 05/14/2027

CLIENT

CITY OF DUBLIN
100 S CHURCH ST
DUBLIN, GA 31021
PHONE: 478.272.1620

FIXED AND PORTABLE GENERATOR INSTALLATIONS EROSION CONTROL PLANS

DUBLIN, GA 31021

CHRISTIAN & ELLINGTON
ENGINEERING | LAND SURVEYING
709 BELLEVUE AVENUE DUBLIN, GEORGIA 31021
(478) 272-3013 | PEF005476

C|E

REVISIONS

NO.	DATE	
1	-	-
2	-	-
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6	-	-

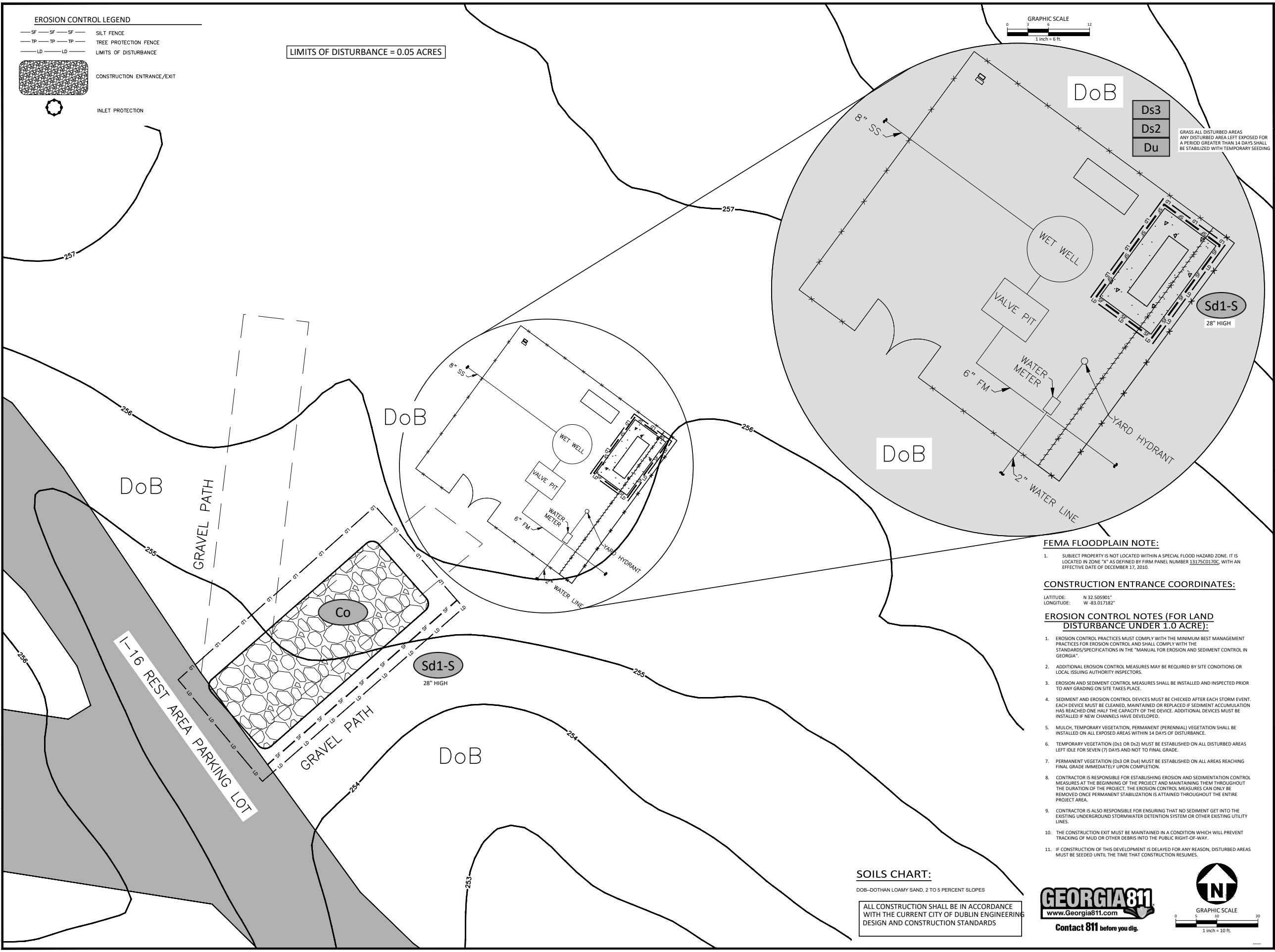
PLAN INFORMATION

PROJECT NO.	2025178
FILENAME	2025178-ESPC
CHECKED BY	JLC
DRAWN BY	BTE
SCALE	1"=10'
DATE	03. 18. 2026

SHEET

EROSION CONTROL
HWY 19 PUMP STATION

C6.08



FEMA FLOODPLAIN NOTE:

1. SUBJECT PROPERTY IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "X" AS DEFINED BY FIRM PANEL NUMBER 13175C0170C, WITH AN EFFECTIVE DATE OF DECEMBER 17, 2010.

CONSTRUCTION ENTRANCE COORDINATES:

LATITUDE:	N 32.505901°
LONGITUDE:	W -83.017182°

EROSION CONTROL NOTES (FOR LAND DISTURBANCE UNDER 1.0 ACRE):

1. EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL AND SHALL COMPLY WITH THE STANDARDS/SPECIFICATIONS IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
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SOILS CHART:

DOB–DOTHAN LOAMY SAND, 2 TO 5 PERCENT SLOPES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF DUBLIN ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

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BRIAN T. ELLINGTON
No. PE038522

LEVEL II DESIGN
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EXPIRES: 05/14/2027

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REVISIONS

NO.	DATE	
1	-	-
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4	-	-
5	-	-
6	-	-

PLAN INFORMATION

PROJECT NO.	2025178
FILENAME	2025178-ESPC
CHECKED BY	JLC
DRAWN BY	BTE
SCALE	1"=10'
DATE	03. 18. 2026

SHEET

EROSION CONTROL 1-16 WEST BOUND PUMP STATION

C6.09

K:_Project Files\2025178 River Pump Station Bore\CAD\2025178-ESPC.dwg, 3/19/2026 10:28:37 AM, Drafting Computer

EROSION CONTROL NOTES (FOR LAND DISTURBANCE UNDER 1.0 ACRE):

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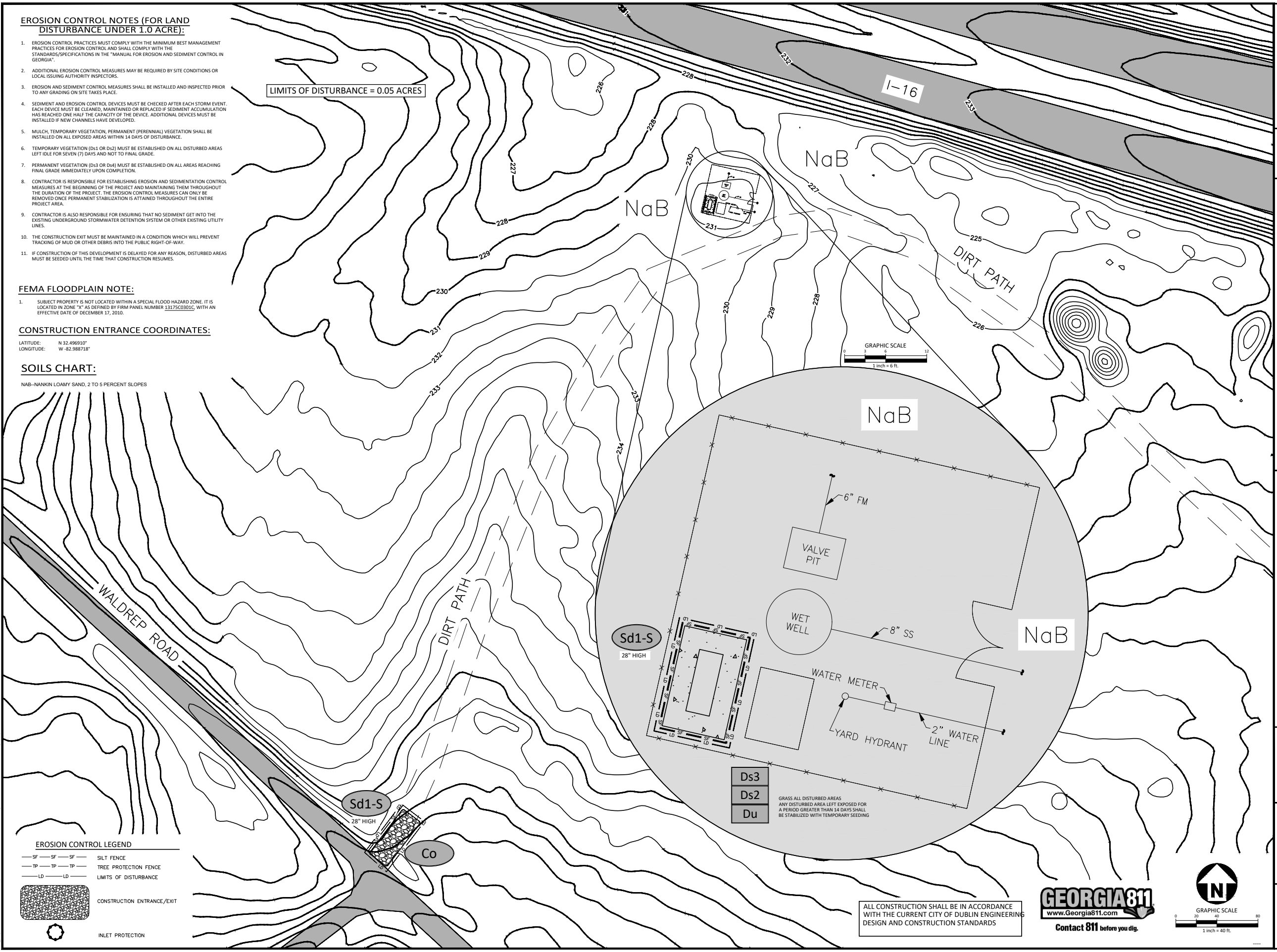
CONSTRUCTION ENTRANCE COORDINATES:

LATITUDE:	N 32.496910°
LONGITUDE:	W -82.988718°

SOILS CHART:

NAB--NANKIN LOAMY SAND, 2 TO 5 PERCENT SLOPES

LIMITS OF DISTURBANCE = 0.05 ACRES



GRASS ALL DISTURBED AREAS
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EROSION CONTROL LEGEND

—SF—SF—SF—	SILT FENCE
—TP—TP—TP—	TREE PROTECTION FENCE
—LD—LD—	LIMITS OF DISTURBANCE
▨	CONSTRUCTION ENTRANCE/EXIT
○	INLET PROTECTION

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE038522 BRIAN T. ELLINGTON

LEVEL II DESIGN
PROFESSIONAL NUMBER 94328
EXPIRES: 05/14/2027

CLIENT

CITY OF DUBLIN
100 S CHURCH ST
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DUBLIN, GA 31021

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REVISIONS

NO.	DATE	
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

PLAN INFORMATION

PROJECT NO.	2025178
FILENAME	2025178-ESPC
CHECKED BY	JLC
DRAWN BY	BTE
SCALE	1"=40'
DATE	03. 18. 2026

SHEET

EROSION CONTROL
LOVES PUMP STATION

C6.10

FEMA FLOODPLAIN NOTE:

1. SUBJECT PROPERTY IS LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "A & AE" AS DEFINED BY FIRM PANEL NUMBER 13175C0192C, WITH AN EFFECTIVE DATE OF DECEMBER 17, 2010.

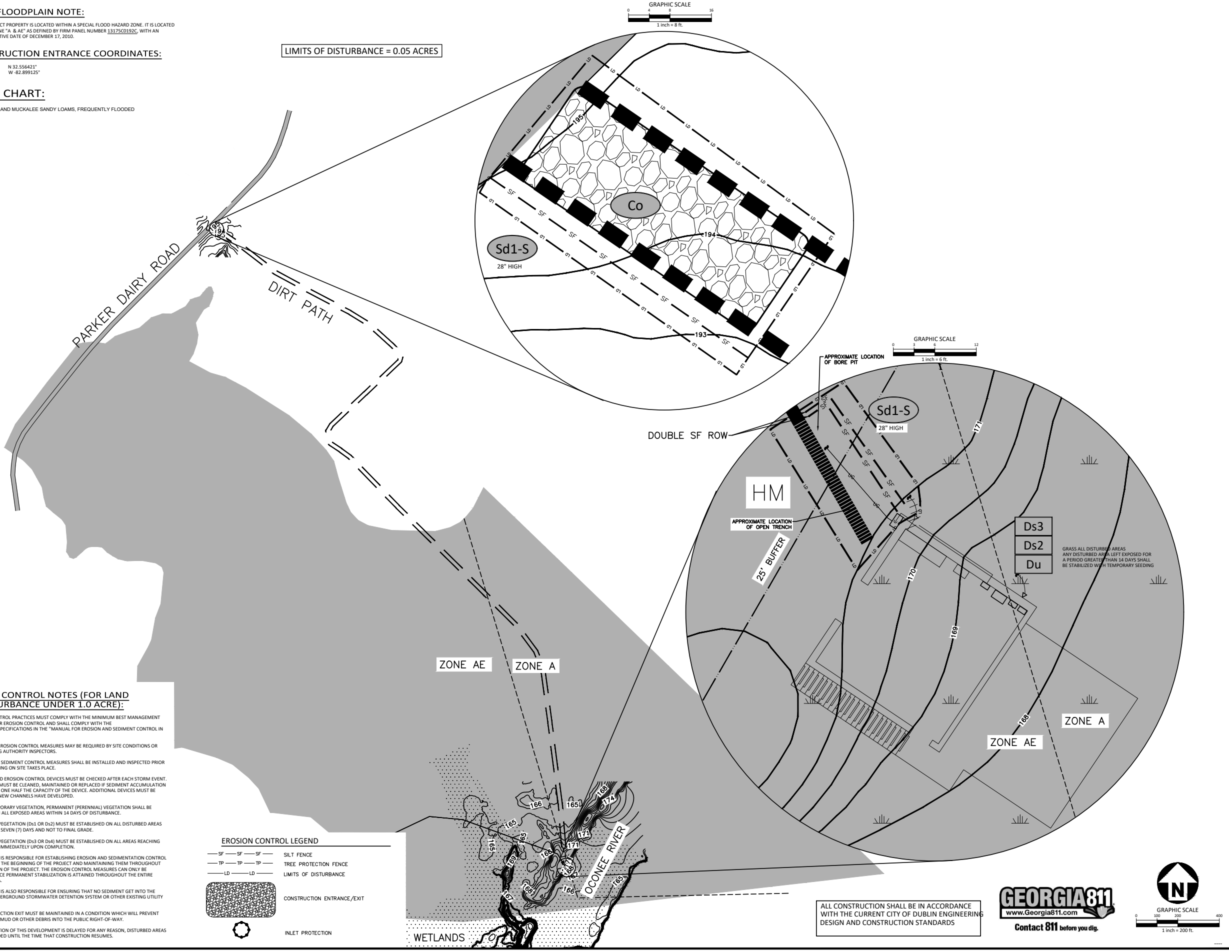
CONSTRUCTION ENTRANCE COORDINATES:

LATITUDE:	N 32.556421°
LONGITUDE:	W -82.899125°

SOILS CHART:

HM—HEROD AND MUCKALEE SANDY LOAMS, FREQUENTLY FLOODED

LIMITS OF DISTURBANCE = 0.05 ACRES



GRASS ALL DISTURBED AREAS
ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING

EROSION CONTROL NOTES (FOR LAND DISTURBANCE UNDER 1.0 ACRE):

1. EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL AND SHALL COMPLY WITH THE STANDARDS/SPECIFICATIONS IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
2. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY SITE CONDITIONS OR LOCAL ISSUING AUTHORITY INSPECTORS.
3. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE TAKES PLACE.
4. SEDIMENT AND EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE MUST BE CLEANED, MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
5. MULCH, TEMPORARY VEGETATION, PERMANENT (PERENNIAL) VEGETATION SHALL BE INSTALLED ON ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE.
6. TEMPORARY VEGETATION (Ds1 OR Ds2) MUST BE ESTABLISHED ON ALL DISTURBED AREAS LEFT IDLE FOR SEVEN (7) DAYS AND NOT TO FINAL GRADE.
7. PERMANENT VEGETATION (Ds3 OR Ds4) MUST BE ESTABLISHED ON ALL AREAS REACHING FINAL GRADE IMMEDIATELY UPON COMPLETION.
8. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING EROSION AND SEDIMENTATION CONTROL MEASURES AT THE BEGINNING OF THE PROJECT AND MAINTAINING THEM THROUGHOUT THE DURATION OF THE PROJECT. THE EROSION CONTROL MEASURES CAN ONLY BE REMOVED ONCE PERMANENT STABILIZATION IS ATTAINED THROUGHOUT THE ENTIRE PROJECT AREA.
9. CONTRACTOR IS ALSO RESPONSIBLE FOR ENSURING THAT NO SEDIMENT GET INTO THE EXISTING UNDERGROUND STORMWATER DETENTION SYSTEM OR OTHER EXISTING UTILITY LINES.
10. THE CONSTRUCTION EXIT MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF MUD OR OTHER DEBRIS INTO THE PUBLIC RIGHT-OF-WAY.
11. IF CONSTRUCTION OF THIS DEVELOPMENT IS DELAYED FOR ANY REASON, DISTURBED AREAS MUST BE SEEDED UNTIL THE TIME THAT CONSTRUCTION RESUMES.

K:_Project Files\2025178 River Pump Station Bore\CAD\2025178-ESPC.dwg, 3/19/2026 10:28:43 AM, Drafting Computer

EROSION CONTROL LEGEND

—SF—SF—SF—	SILT FENCE
—TP—TP—TP—	TREE PROTECTION FENCE
—LD—LD—	LIMITS OF DISTURBANCE
▨	CONSTRUCTION ENTRANCE/EXIT
○	INLET PROTECTION

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF DUBLIN ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

No. PE038522
BRIAN T. ELLINGTON

LEVEL II DESIGN
PROFESSIONAL NUMBER 94328
EXPIRES: 05/14/2027

CLIENT

CITY OF DUBLIN
100 S CHURCH ST
DUBLIN, GA 31021
PHONE: 478.272.1620

FIXED AND PORTABLE GENERATOR INSTALLATIONS EROSION CONTROL PLANS

DUBLIN, GA 31021

CE
CHRISTIAN & ELLINGTON
ENGINEERING | LAND SURVEYING
709 BELLEVUE AVENUE DUBLIN,
GEORGIA 31021
(478) 272-3013 | PEF005476

REVISIONS

NO.	DATE	
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

PLAN INFORMATION

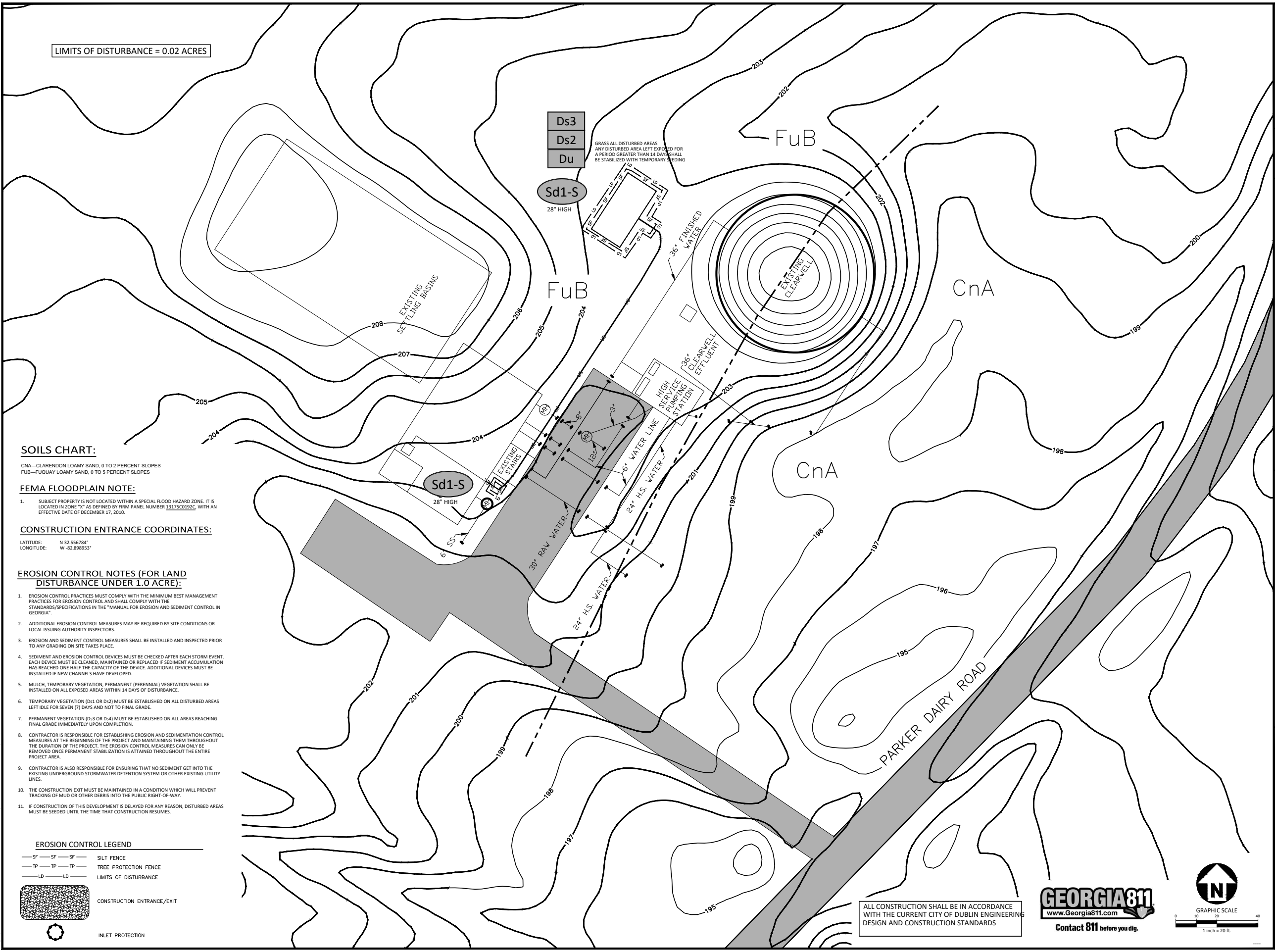
PROJECT NO.	2025178
FILENAME	2025178-ESPC
CHECKED BY	JLC
DRAWN BY	BTE
SCALE	1"=200'
DATE	03. 18. 2026

SHEET

EROSION CONTROL PARKER DAIRY RAW WATER PUMP STATION

C6.11

LIMITS OF DISTURBANCE = 0.02 ACRES



SOILS CHART:

CNA—CLARENDON LOAMY SAND, 0 TO 2 PERCENT SLOPES
FUB—FUQUAY LOAMY SAND, 0 TO 5 PERCENT SLOPES

FEMA FLOODPLAIN NOTE:

1. SUBJECT PROPERTY IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "X" AS DEFINED BY FIRM PANEL NUMBER 13175C0192C, WITH AN EFFECTIVE DATE OF DECEMBER 17, 2010.

CONSTRUCTION ENTRANCE COORDINATES:

LATITUDE:	N 32.556784°
LONGITUDE:	W -82.898953°

EROSION CONTROL NOTES (FOR LAND DISTURBANCE UNDER 1.0 ACRE):

1. EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL AND SHALL COMPLY WITH THE STANDARDS/SPECIFICATIONS IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
2. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY SITE CONDITIONS OR LOCAL ISSUING AUTHORITY INSPECTORS.
3. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE TAKES PLACE.
4. SEDIMENT AND EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE MUST BE CLEANED, MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
5. MULCH, TEMPORARY VEGETATION, PERMANENT (PERENNIAL) VEGETATION SHALL BE INSTALLED ON ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE.
6. TEMPORARY VEGETATION (Ds1 OR Ds2) MUST BE ESTABLISHED ON ALL DISTURBED AREAS LEFT IDLE FOR SEVEN (7) DAYS AND NOT TO FINAL GRADE.
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9. CONTRACTOR IS ALSO RESPONSIBLE FOR ENSURING THAT NO SEDIMENT GET INTO THE EXISTING UNDERGROUND STORMWATER DETENTION SYSTEM OR OTHER EXISTING UTILITY LINES.
10. THE CONSTRUCTION EXIT MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF MUD OR OTHER DEBRIS INTO THE PUBLIC RIGHT-OF-WAY.
11. IF CONSTRUCTION OF THIS DEVELOPMENT IS DELAYED FOR ANY REASON, DISTURBED AREAS MUST BE SEEDED UNTIL THE TIME THAT CONSTRUCTION RESUMES.

EROSION CONTROL LEGEND

—SF—SF—SF—	SILT FENCE
—TP—TP—TP—	TREE PROTECTION FENCE
—LD—LD—	LIMITS OF DISTURBANCE
▨	CONSTRUCTION ENTRANCE/EXIT
○	INLET PROTECTION

ALL CONSTRUCTION SHALL BE IN ACCORDANCE
WITH THE CURRENT CITY OF DUBLIN ENGINEERING
DESIGN AND CONSTRUCTION STANDARDS

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N
GRAPHIC SCALE
0 10 20 40
1 inch = 20 ft.

K:_Project Files\2025178 River Pump Station Bore\CAD\2025178-ESPC.dwg, 3/19/2026 10:29:02 AM, Drafting Computer

No. PE038522
BRIAN T. ELLINGTON

LEVEL II DESIGN
PROFESSIONAL NUMBER 94328
EXPIRES: 05/14/2027

CLIENT

CITY OF DUBLIN
100 S CHURCH ST
DUBLIN, GA 31021
PHONE: 478.272.1620

FIXED AND PORTABLE GENERATOR INSTALLATIONS EROSION CONTROL PLANS

DUBLIN, GA 31021

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CHRISTIAN & ELLINGTON
ENGINEERING | LAND SURVEYING
709 BELLEVUE AVENUE DUBLIN,
GEORGIA 31021
(478) 272-3013 | PEF005476

REVISIONS

NO.	DATE	
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

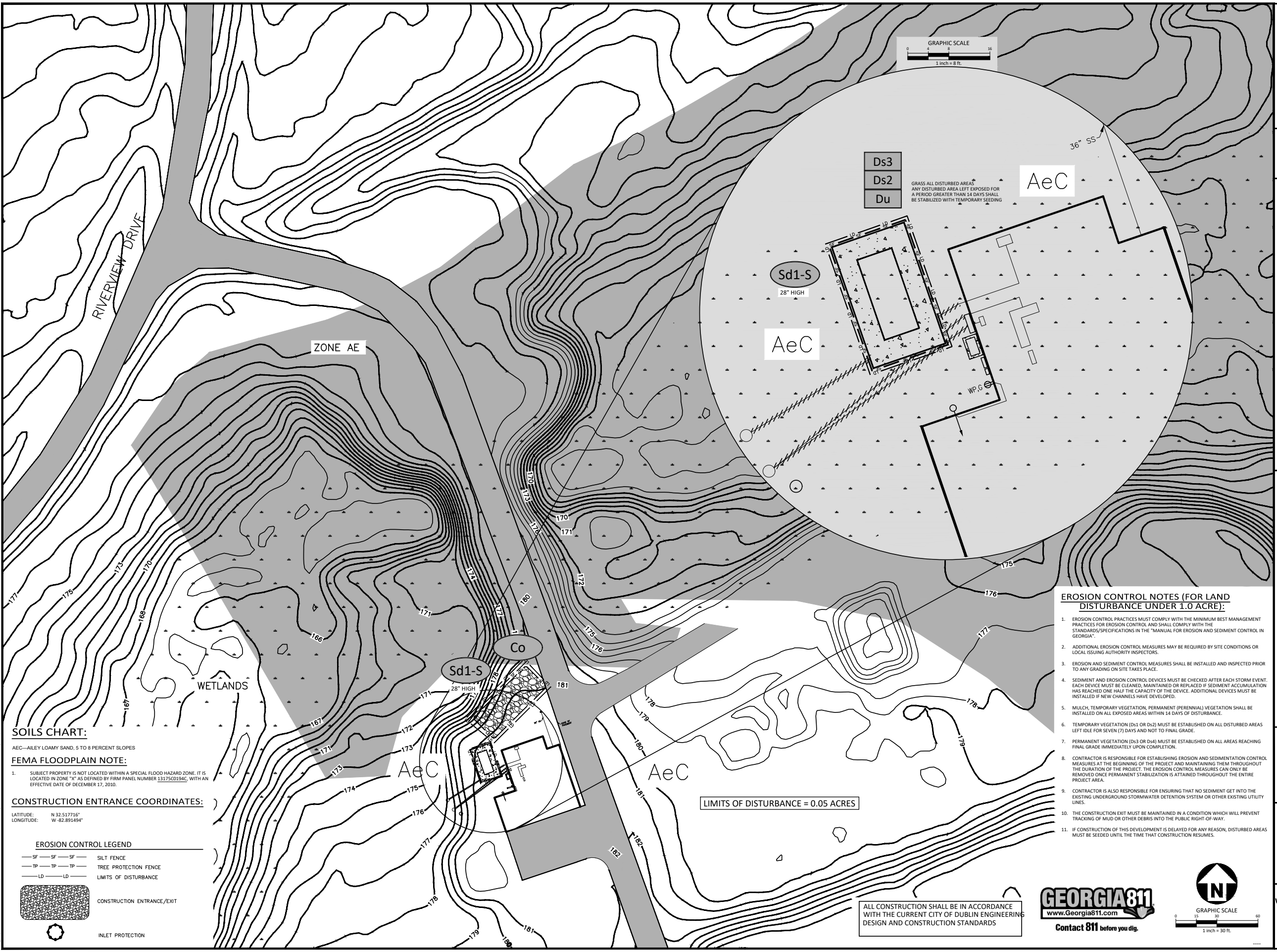
PLAN INFORMATION

PROJECT NO.	2025178
FILENAME	2025178-ESPC
CHECKED BY	JLC
DRAWN BY	BTE
SCALE	1"=20'
DATE	03. 18. 2026

SHEET

EROSION CONTROL PARKER DAIRY SURFACE WATER TREATMENT PLANT

C6.12



GRASS ALL DISTURBED AREAS
ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING

LIMITS OF DISTURBANCE = 0.05 ACRES

SOILS CHART:

AEC—AILEY LOAMY SAND, 5 TO 8 PERCENT SLOPES

FEMA FLOODPLAIN NOTE:

1. SUBJECT PROPERTY IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "X" AS DEFINED BY FIRM PANEL NUMBER 13175C0194C, WITH AN EFFECTIVE DATE OF DECEMBER 17, 2010.

CONSTRUCTION ENTRANCE COORDINATES:

LATITUDE:	N 32.517716°
LONGITUDE:	W -82.891494°

EROSION CONTROL LEGEND

—SF—SF—SF—	SILT FENCE
—TP—TP—TP—	TREE PROTECTION FENCE
—LD—LD—	LIMITS OF DISTURBANCE
▨	CONSTRUCTION ENTRANCE/EXIT
○	INLET PROTECTION

EROSION CONTROL NOTES (FOR LAND DISTURBANCE UNDER 1.0 ACRE):

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ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF DUBLIN ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

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No. PE038522
BRIAN T. ELLINGTON

LEVEL II DESIGN
PROFESSIONAL NUMBER 94328
EXPIRES: 05/14/2027

CLIENT

CITY OF DUBLIN
100 S CHURCH ST
DUBLIN, GA 31021
PHONE: 478.272.1620

FIXED AND PORTABLE GENERATOR INSTALLATIONS EROSION CONTROL PLANS

DUBLIN, GA 31021

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ENGINEERING | LAND SURVEYING
709 BELLEVUE AVENUE DUBLIN,
GEORGIA 31021
(478) 272-3013 | PEF005476

REVISIONS

NO.	DATE	
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

PLAN INFORMATION

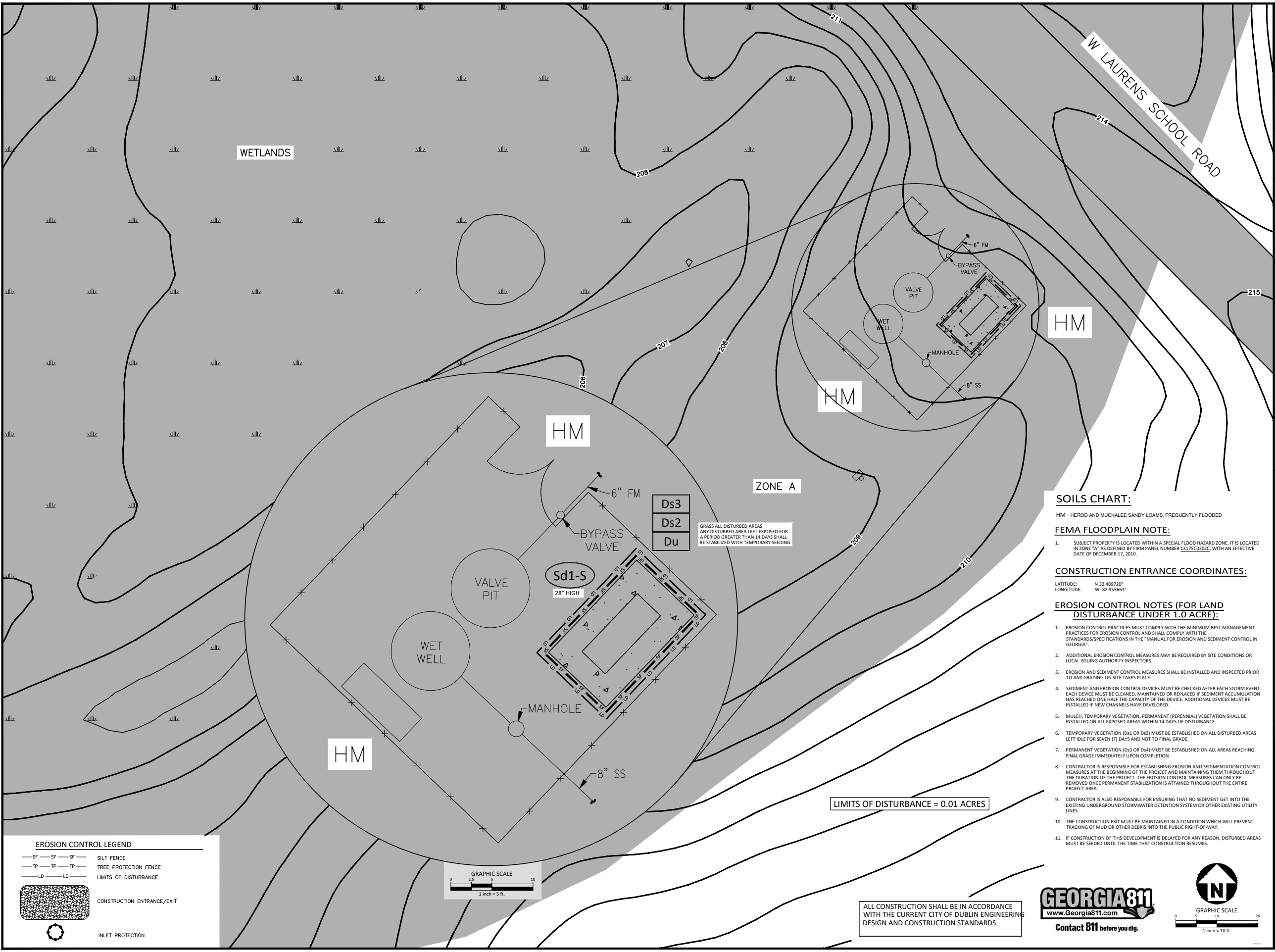
PROJECT NO.	2025178
FILENAME	2025178-ESPC
CHECKED BY	JLC
DRAWN BY	BTE
SCALE	1"=30'
DATE	03. 18. 2026

SHEET

EROSION CONTROL RIVERVIEW WASTEWATER TREATMENT PLANT

C6.13

K:_Project Files\2025178 River Pump Station Bore\CAD\2025178-ESPC.dwg, 3/19/2026 10:29:14 AM, Drafting Computer



GRASS ALL DISTURBED AREAS
ANY DISTURBED AREA LEFT EXPOSED FOR
A PERIOD GREATER THAN 14 DAYS SHALL
BE STABILIZED WITH TEMPORARY SEEDING

LIMITS OF DISTURBANCE = 0.01 ACRES

EROSION CONTROL LEGEND

—SF—SF—SF—	SILT FENCE
—TP—TP—TP—	TREE PROTECTION FENCE
——LD——LD——	LIMITS OF DISTURBANCE
▨	CONSTRUCTION ENTRANCE/EXIT
○	INLET PROTECTION

SOILS CHART:

HM - HEROD AND MUCKALEE SANDY LOAMS, FREQUENTLY FLOODED

FEMA FLOODPLAIN NOTE:

1. SUBJECT PROPERTY IS LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "A" AS DEFINED BY FIRM PANEL NUMBER 13175C0302C, WITH AN EFFECTIVE DATE OF DECEMBER 17, 2010.

CONSTRUCTION ENTRANCE COORDINATES:

LATITUDE:	N 32.489720°
LONGITUDE:	W -82.953663°

EROSION CONTROL NOTES (FOR LAND DISTURBANCE UNDER 1.0 ACRE):

1. EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL AND SHALL COMPLY WITH THE STANDARDS/SPECIFICATIONS IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
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7. PERMANENT VEGETATION (Ds3 OR Ds4) MUST BE ESTABLISHED ON ALL AREAS REACHING FINAL GRADE IMMEDIATELY UPON COMPLETION.
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9. CONTRACTOR IS ALSO RESPONSIBLE FOR ENSURING THAT NO SEDIMENT GET INTO THE EXISTING UNDERGROUND STORMWATER DETENTION SYSTEM OR OTHER EXISTING UTILITY LINES.
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ALL CONSTRUCTION SHALL BE IN ACCORDANCE
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DESIGN AND CONSTRUCTION STANDARDS

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GRAPHIC SCALE
0 5 10 20
1 inch = 10 ft.

No. PE038522
BRIAN T. ELLINGTON

LEVEL II DESIGN
PROFESSIONAL NUMBER 94328
EXPIRES: 05/14/2027

CLIENT

CITY OF DUBLIN
100 S CHURCH ST
DUBLIN, GA 31021
PHONE: 478.272.1620

FIXED AND PORTABLE GENERATOR INSTALLATIONS EROSION CONTROL PLANS

DUBLIN, GA 31021

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ENGINEERING | LAND SURVEYING
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GEORGIA 31021
(478) 272-3013 | PEF005476

REVISIONS

NO.	DATE	
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

PLAN INFORMATION

PROJECT NO.	2025178
FILENAME	2025178-ESPC
CHECKED BY	JLC
DRAWN BY	BTE
SCALE	1"=10'
DATE	03. 18. 2026

SHEET

EROSION CONTROL WEST LAURENS PUMP STATION

C6.14

K:_Project Files\2025178 River Pump Station Bore\CAD\2025178-ESPC.dwg, 3/19/2026 10:28:45 AM, Drafting Computer

EROSION CONTROL LEGEND

—SF—SF—SF—	SILT FENCE
—TP—TP—TP—	TREE PROTECTION FENCE
—LD——LD—	LIMITS OF DISTURBANCE
▨	CONSTRUCTION ENTRANCE/EXIT
○	INLET PROTECTION

EROSION CONTROL NOTES (FOR LAND DISTURBANCE UNDER 1.0 ACRE):

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FEMA FLOODPLAIN NOTE:

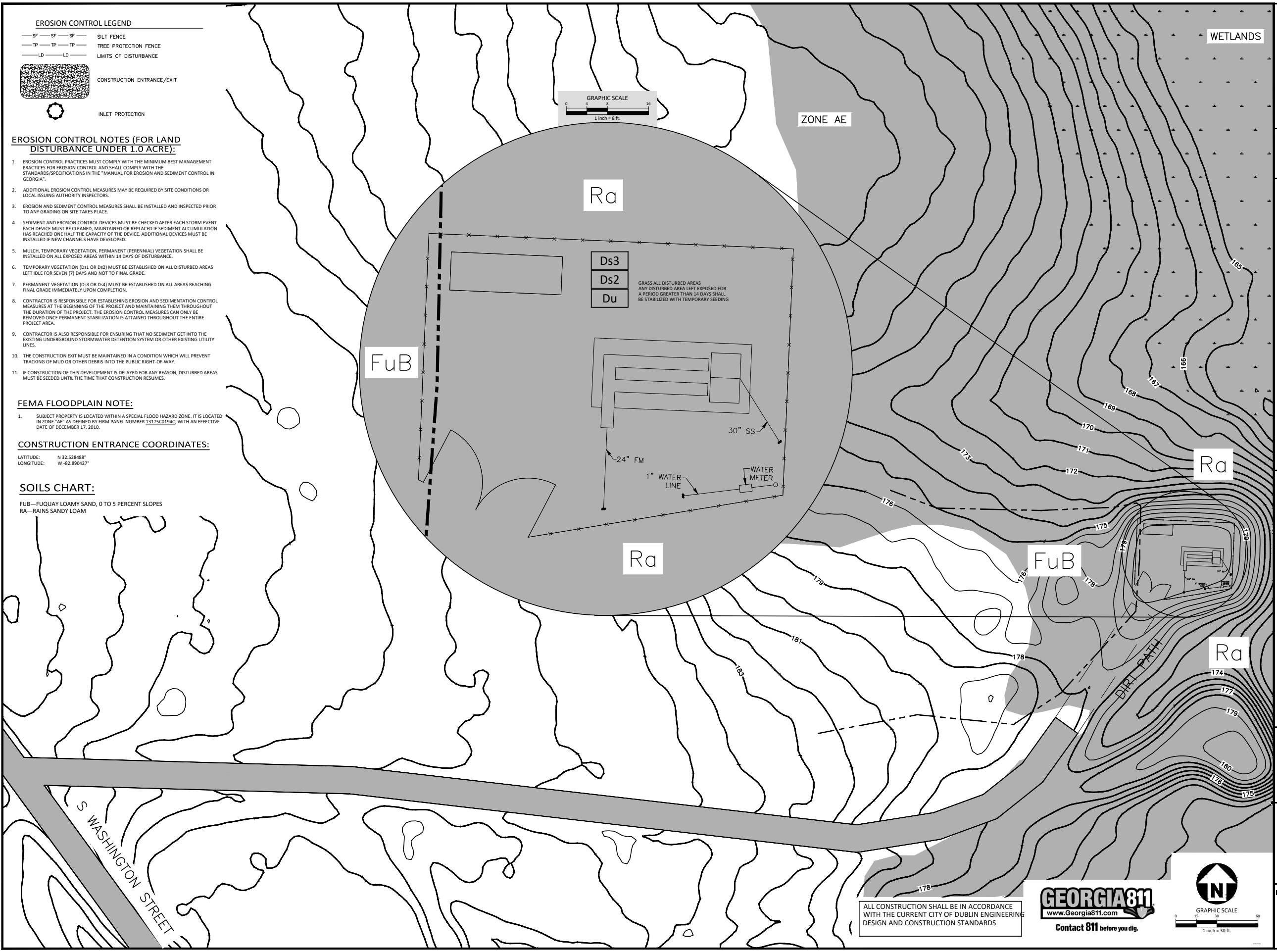
1. SUBJECT PROPERTY IS LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "AE" AS DEFINED BY FIRM PANEL NUMBER 13175C0194C, WITH AN EFFECTIVE DATE OF DECEMBER 17, 2010.

CONSTRUCTION ENTRANCE COORDINATES:

LATITUDE:	N 32.528488°
LONGITUDE:	W -82.890427°

SOILS CHART:

FUB—FUQUAY LOAMY SAND, 0 TO 5 PERCENT SLOPES
RA—RAINS SANDY LOAM



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GEORGIA REGISTERED
No. PE038522
PROFESSIONAL ENGINEER
BRIAN T. ELLINGTON

LEVEL II DESIGN
PROFESSIONAL NUMBER 94328
EXPIRES: 05/14/2027

CLIENT

CITY OF DUBLIN
100 S CHURCH ST
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PHONE: 478.272.1620

FIXED AND PORTABLE GENERATOR INSTALLATIONS EROSION CONTROL PLANS

DUBLIN, GA 31021

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GEORGIA 31021
(478) 272-3013 | PEF005476

REVISIONS

NO.	DATE	
1	-	-
2	-	-
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4	-	-
5	-	-
6	-	-

PLAN INFORMATION

PROJECT NO.	2025178
FILENAME	2025178-ESPC
CHECKED BY	JLC
DRAWN BY	BTE
SCALE	1"=30'
DATE	03. 18. 2026

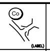
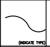
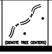
SHEET

EROSION CONTROL WASHINGTON PUMP STATION

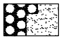
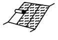
C6.15

K:_Project Files\2025178 River Pump Station Bore\CAD\2025178-ESPC.dwg, 3/19/2026 10:28:56 AM, Drafting Computer

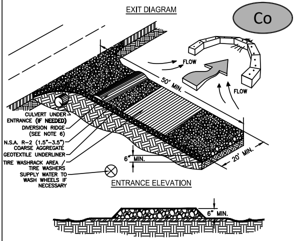
GEORGIA
UNIFORM CODING SYSTEM
FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES
GEORGIA SOIL AND WATER CONSERVATION COMMISSION
STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT		 (LABEL)	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Sd1	SEDIMENT BARRIER		 (INDICATE TYPE)	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.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Tr	TREE PROTECTION		 (DENOTE TREE CENTERS)	To protect desirable trees from injury during construction activity.

VEGETATIVE PRACTICES

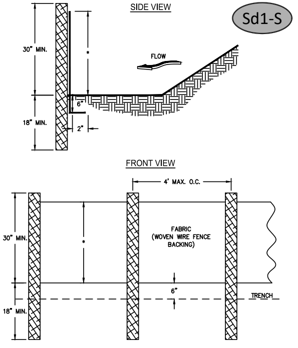
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

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.

SILT FENCE - TYPE SENSITIVE



NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

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4. INSPECTIONS.

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. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2). MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

(3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A. (4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION HAS BEEN SUBMITTED) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(5). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY 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.

1. **MAINTENANCE.** THE PLAN SHALL INCLUDE A DESCRIPTION OF PROCEDURES TO ENSURE THE TIMELY MAINTENANCE OF VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SITE PLAN.

2. **SAMPLING REQUIREMENTS**. THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

㉝ 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, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORMWATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORMWATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;

(2). A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;

(3). WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

(4). ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

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 STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

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

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:

(A). THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORMWATER DISCHARGES 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 STORMWATER OUTFALL 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 FREE FROM FLOATING DEBRIS.

(G). PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION).

(H). ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORMWATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS OR III.D.4., WHICHEVER IS APPLICABLE.

㉛ a. *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.

(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 STORMWATER DISCHARGE.

(3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:

(A). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;

(B). IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;

(C). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;

(D). WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND

(E). EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND 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.

7. **NON-STORMWATER DISCHARGES.** EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NONSTORMWATER LISTED IN PART III.A.2. OF THIS PERMIT THAT ARE COMBINED WITH STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE IDENTIFIED IN THE PLAN. THE PLAN SHALL IDENTIFY AND ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION EASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE.

E. REPORTING.

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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. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORMWATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:
   a. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
   b. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND 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;
   g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
   h. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND
   i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.
3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

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F. RETENTION OF RECORDS.

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

NOTE: THERE ARE JURISDICTIONAL WETLANDS WITHIN THE PROJECT AREA.

NOTE: NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OF 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.

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No. PE038522
BRIAN T. ELLINGTON

LEVEL II DESIGN
PROFESSIONAL NUMBER 94328
EXPIRES: 05/14/2027

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FIXED AND PORTABLE GENERATOR INSTALLATIONS EROSION CONTROL PLANS

DUBLIN, GA 31021

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CHRISTIAN & ELLINGTON
ENGINEERING | LAND SURVEYING
709 BELLEVUE AVENUE DUBLIN, GEORGIA 31021
(478) 272-3013 | PEF005476

REVISIONS

NO.	DATE	
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PLAN INFORMATION

PROJECT NO. 2025178
FILENAME 2025178-ESPC
CHECKED BY JLC
DRAWN BY BTE
SCALE ########
DATE 03. 18. 2026

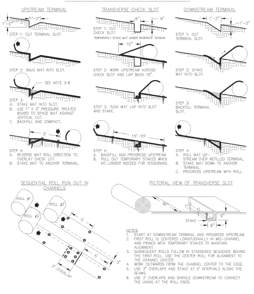
SHEET

EROSION CONTROL DETAILS

C6.16

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

BLANKET AND MATTING CROSS-SECTIONS



NOTES:
1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND THE FIRST ROLL. USE THE CENTER ROLL FOR ALIGNMENT TO THE CHANNEL CENTER.
4. WORK OUTWARDS FROM THE CHANNEL CENTER TO THE EDGE.
5. USE 3" OVERLAPS AND STAKE AT 5' INTERVALS ALONG THE SEAMS.
6. USE 3" OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT THE LINING AT THE ROLL ENDS.

Figure 6-10.1 - Typical Installation Guidelines for Matting and Blankets

---

Dust Control on Disturbed Areas

Du

DEFINITION

Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

PURPOSE

- To prevent surface and air movement of dust from exposed soil surfaces.
- To reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

CONDITIONS

This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

METHOD AND MATERIALS

A. Temporary Methods

Mulches. See standard **Ds1 - Disturbed Area Stabilization (With Mulching Only)**. Synthetic resins may be used instead of asphalt to bind mulch material. Refer to specification **Tac - Tackifiers**. Resins should be used according to manufacturer's recommendations.

Vegetative Cover. See specification **Ds2 - Disturbed Area Stabilization (With Temporary Seeding)**.

Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to specification **Tac - Tackifiers**.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure that should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers. Solid board fences, snowfences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. Permanent Methods

Permanent Vegetation. See specification **Ds3 -Disturbed Area Stabilization (With Permanent Vegetation)**. Existing trees and large shrubs may afford valuable protection if left in place.

Topsoiling. This entails covering the surface with less erosive soil material. See specification **Tp - Topsoiling**.

Stone. Cover surface with crushed stone or coarse gravel. See specification **Cr-Construction Road Stabilization**.

Disturbed Area Stabilization (With Temporary Seeding)

Ds2

DEFINITION

The establishment of temporary vegetative cover with fast growing seedings for seasonal protection on disturbed or denuded areas.

PURPOSE

- To reduce runoff and sediment damage of down stream resources
- To protect the soil surface from erosion
- To improve wildlife habitat
- To improve aesthetics
- To improve tilth, infiltration and aeration as well as organic matter for permanent plantings

REQUIREMENT FOR REGULATORY COMPLIANCE

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. If an area is expected to be undisturbed for longer than six months, permanent perennial vegetation shall be used. If optimum planting conditions for temporary grassing is lacking, mulch can be used as a singular erosion control device for up to six months but it shall be applied at the appropriate depth, anchored, and have a continuous 90% cover or greater of the soil surface. Refer to specification **Ds1-Disturbed Area Stabilization (With Temporary Seeding).**

CONDITIONS

Temporary vegetative measures should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are ideal to use as companion crops until the permanent vegetation is established. Note: Some species of temporary vegetation are not appropriate for companion crop plantings because of their potential to out-compete the desired species (e.g. annual ryegrass). Contact NRCS or the local SWCD for more information.

SPECIFICATIONS

Grading and Shaping

Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others.

No shaping or grading is required if slopes can be stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

Seedbed Preparation

When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or hand-seeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall.

When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, trenched or otherwise scarified to provide a place for seed to lodge and germinate.

Lime and Fertilizer

Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate determined by soil test for pH. Quick acting lime should be incorporated to modify pH during the germination period. Bio stimulants should also be considered when there is less than 3% organic matter in the soil. Graded areas require lime application. Soils must be tested to determine required amounts of fertilizer and amendments. Fertilizer should be applied before land preparation and incorporated with a disk, ripper, or chisel. On slopes too steep for, or inaccessible to equipment, fertilizer shall be hydraulically applied, preferably in the first pass with seed and some hydraulic mulch, then topped with the remaining required application rate.

Seeding

Select a grass or grass-legume mixture suitable to the area and season of the year. Seed shall be applied uniformly by hand, cyclone seeder, drill, culti-packer-seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed one-quarter to one-half inch deep. Appropriate depth of planting is ten times the seed diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand. See Table 6-4.1

Mulching

Temporary vegetation can, in most cases, be established without the use of mulch, provided there is little to no erosion potential. However, the use of mulch can often accelerate and enhance germination and vegetation establishment. Mulch without seeding should be considered for short term protection. Refer to **Ds1 - Disturbed Area Stabilization (With Mulching Only)**.

Irrigation

During times of drought, water shall be applied at a rate not causing runoff and erosion. The soil shall be thoroughly wetted to a depth that will insure germination of the seed. Subsequent applications should be made when needed.

Ds2

Ds2

Ds2

Table 6-4.1 - Temporary Cover or Companion Cover Crops

PLANT, PLANTING RATE, AND PLANTING DATE FOR TEMPORARY COVER OR COMPANION CROPS [1]

Species	Broadcast Rates		Resource Area[3]	Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.)												Remarks
	Rate Per Acre[2]	*Pure Live Seed (PLS) Per 1000 sqft*		J	F	M	A	M	J	J	A	S	O	N	D	
BARLEY *Hordeum vulagre*																
alone	3 bu. (144 lbs)	3.3 lbs	M-L													14,000 seed per pound. Winter hardy. Use on productive soils.
in mixture	1/2 bu. (24lbs)	0.6 lb	P													
			C													
LESPEDEZA, ANNUAL *Lespedeza striata*																
alone	40 lbs	0.9 lb	M-L													200,000 seed per pound. May volunteer for several years. Use inoculant EL.
in mixture	10 lbs	0.2 lb	P													
			C													
LOVEGRASS, WEEPING *Eragrostis curvula*																
alone	4 lbs	0.1 lb	M-L													1,500,000 seed per pound. May last for several years. Mix with *Sericea lespedeza*.
in mixture	2 lbs	0.05 lb	P													
			C													
MILLET, BROWNTOP *Panicum fasciculatum*																
alone	40 lbs	0.9 lb	M-L													137,000 seed per pound. Quick dense cover. Will provide excessive competion in mixtures if seeded at high rate.
in mixture	10 lbs	0.2 lb	P													
			C													
MILLET, PEARL *Pennesetum glaucum*																
alone	50 lbs	1.1 lbs	M-L													88,000 seed per pound. Quick dense cover. May reach 5 feet in height. Not recommended for mixtures.
			P													
			C													
OATS *Avena sativa*																
alone	4 bu. (128 lbs)	2.9 lbs	M-L													13,000 seed per pound. Use on productive soils. Not as a winter hardy as rye or barley.
in mixture	1 bu. (32 lbs)	0.7 lb	P													
			C													
RYE *Secale cereale*																
alone	3 bu. (168 lbs)	3.9 lbs	M-L													18,000 seed per pound. Quick cover. Drought tolerant and winter hardy.
in mixture	1/2 bu. (28 lbs)	0.6 lb	P													
			C													
RYEGRASS, ANNUAL *Lolium temulentum*																
alone	40 lbs	0.9 lb	M-L													227,000 seed per pound. Dense cover. Very competitive and is <u>not</u> to be used in mixtures.
			P													
			C													
SUDANGRASS *Sorghum sudanese*																
alone	60 lbs	1.4 lbs	M-L													55,000 seed per pound. Good on droughty sites. <u>Not</u> recommended for mixtures.
			P													
			C													
TRITICALE *X-Triticosecale*																
alone	3 bu. (144 lbs)	3.3 lbs	C													Use on lower part of Southern Coastal Plain and in Atlantic Coastal Flatwoods only.
in mixture	1/2 bu. (24 lbs)	0.6 lb														
WHEAT *Triticum aestivum*																
alone	3 bu. (180 lbs)	4.1 lbs	M-L													15,000 seed per pound. Winter hardy.
in mixture	1/2 bu. (30 lbs)	0.7 lb	P													
			C													

---

[1] Temporary cover crops are very competitive and will crowd out perennials if seeded too heavily

[2] Reduce seeding rates by 50% when drilled.

[3] M-L represents the Mountain; Blue Ridge; and Ridges and Valleys MLRAs
P represents the Southern Piedmont MLRA
C represents Southern Coastal Plan; Sand Hills; Black Lands; and Atlantic Coast Flatwoods MLRAs
(see Figure 6-4.1, p. 6-40)

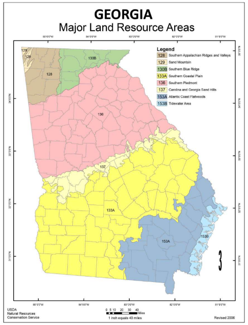


Figure 6-4.1

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No. PE038522
BRIAN T. ELLINGTON

LEVEL II DESIGN
PROFESSIONAL NUMBER 94328
EXPIRES: 05/14/2027

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(478) 272-3013 | PEF005476

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PLAN INFORMATION

PROJECT NO.	2025178
FILENAME	2025178-ESPC
CHECKED BY	JLC
DRAWN BY	BTE
SCALE	########
DATE	03. 18. 2026

SHEET

EROSION CONTROL DETAILS

C6.17

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PUMP STATIONS
CITY OF DUBLIN, LAURENS COUNTY, GEORGIA

CIRCLED NUMBERS CORRESPOND TO CHECKLIST

MARCH 2026

(4.) **24 Hour Contact Person Responsible for Erosion, Sedimentation and Pollution Controls**
MATTHEW BRADSHAW
100 SOUTH CHURCH STREET
Dublin, GA 31021
(478) 272-5045
BRADSHAWM@DUBLINGA.ORG

(5.) **PRIMARY PERMITEE**
MATTHEW BRADSHAW
100 SOUTH CHURCH STREET
Dublin, GA 31021
(478) 272-5045
BRADSHAWM@DUBLINGA.ORG

(6.) The project total and disturbed acreage is approximately 0.59 acres.

(7.) Coordinates of stand alone project's construction entrance is located on sheets C6.01-C6.15.

(9.) **Project Description**
THE PROJECT SITES ARE LOCATED IN THE CITY OF DUBLIN.

(11.) This site will be protected with silt fence. No temporary sediment basin is included in this project. Runoff from the site will flow toward the Oconee River. Wetlands are present within 300 feet of the project area.

(16.) Waters of the State are present on the project site. A 25'-foot State Waters buffer applies. The location and extent of State Waters and the associated buffer are shown on Sheet C6.11.

(22&23) The project is not within 1 mile upstream of an impaired stream.

(24.) WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

(39&40) There will be no alternative BMPs used in this project.

Construction

CONSTRUCTION ACTIVITIES WILL INVOLVE DISTURBANCE OF 0.59 ACRES OF LAND IN THE CITY OF DUBLIN.
THE PROJECT WILL LAST APPROXIMATELY 540 DAYS.

Processes and Principles of Erosion, Sedimentation and Pollution

When land is disturbed at a construction site, the erosion rate accelerates dramatically. Since ground cover on an undisturbed site protects the surface, removal of that cover increases the site's susceptibility to erosion. Disturbed land may have an erosion rate 1,000 times greater than the pre-construction rate. Even though construction requires that land be disturbed and be left bare for periods of time, proper planning and use of control measures can reduce the impact of man-induced accelerated erosion.

Effective erosion, sedimentation and pollution control requires first that the soil surface be protected from the erosive forces of wind, rain, and runoff, and second that eroded soil can be captured on-site.

Standards and Specifications

All designs will conform to and work will be performed in accordance with the publication entitled " Manual for Erosion and Sediment Control in Georgia", latest issue and the attached details.

Maintenance Program

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 sedimentation control measures shall be implemented to control or treat the sediment source. All drainage swales, pockets, stone. Immediately remove all objectionable materials spilled, washed, or tracked onto public roadways. that may occur shall be repaired by the contractor. Sediment shall be removed once it has reached one-half the original height of the barrier. The sediment fence will be repaired as necessary to maintain an effective barrier. Maintain the construction exit in a condition to prevent mud or sediment from leaving the site. This may require periodic topdressing with 2-inch depressions, low lines, and outlet ditches shall drain effectively at all times. Settlement or washing Reseed and mulch areas where seedling emergence is poor, or where erosion occurs. Protect from traffic as much as possible. Inspect all mulches periodically, and after rainstorms to check for rill erosion, dislocation or failure. If washout occurs, repair the slope grade, reseed and reinstall mulch. Inspect riprap outlet structures after heavy rains to see if any erosion in and around the riprap has taken place or if stones have been dislodged.

Follow the construction sequence throughout the project development. When changes in construction activities are needed, amend the sequence schedule in advance to maintain management control. Orderly modification assures coordination of construction and erosion control practices to minimize erosion and sedimentation problems. If major changes are necessary, send a copy of the modified schedule to the local sediment control agency. Sediment and erosion control measures will remain in place and be maintained until the disturbed areas are stabilized

Disturbed Area Stabilization (with Temporary Seedings)- Establishing temporary vegetative cover with fast growing seedings for seasonal protection on disturbed or denuded areas. The purpose of

- Reduce erosion, sediment and runoff damages to downstream resources
- Improve wildlife habitat
- Improve aesthetics
- Protect soil surface from erosion
- Improve tilth and add organic matter for permanent plantings

Disturbed Area Stabilization (with Permanent Vegetation)- Planting perennial vegetation, such as trees, shrubs, vines, grasses, or legumes, on exposed areas for final permanent stabilization. The purpose is to stabilize the soil, reduce damage from sediment and runoff to downstream areas,

Temporary and permanent vegetative practice shall be as follows:
and improve wildlife habitat and visual resources.

Fertilizer shall be applied at a rate of 1,500 lbs/ac. Lime shall be applied at a rate of 1,500 lbs/ac. Mulching shall be spread at a rate of 2.0 tons/ac.

Weekly inspection of the grass cover shall be performed to identify areas requiring re-establishment of grass.

Dust Control on Disturbed Areas - Controlling surface and air movement of dust on construction site and haul routes. The purpose of the measure is to reduce the presence of airborne substances, which may be harmful or injurious to human health, welfare or safety, or to animals or plant life.

Erosion, Sedimentation and Pollution Control Practices

Structural Practices

Construction Exit - A stone stabilized pad located at any point where traffic will be leaving a construction site to a public right-of-way, street, alley, sidewalk, or parking area, The purpose of the measure is to reduce or eliminate the transport of mud from the construction area by motor vehicles or by runoff.

Sediment Barrier - Temporary structures typically constructed of silt fence supported by steel or wood posts. Other types of barriers may include sandbags, straw bales, brush piles and other filtering material. The purpose of the measure is to prevent sediment carried by sheet flow from leaving the site and entering natural drainage ways or storm drainage systems by slowing storm water runoff and causing the deposition at the structure.

Vegetative Measures

Tree Protection - Tree protection zones shall be established and maintained for each tree preserved on the site. The minimum tree protection zone, except for palm-type trees, shall be an area centered on each tree with a radius in feet equivalent to the tree diameter in inches measured at breast height. Palm-type trees shall have a minimum tree protection zone diameter equal to the diameter of the leaf crown. The minimum tree protection device shall be a fence constructed at, and around, the perimeter of the tree protection zone and constructed of 2"x4"x6'0" posts with one 2"x4"x12'-0" rail nailed to the top of each adjacent post. The minimum rail height shall be four (4) feet. Prefabricated, reusable fencing materials may be used upon approval of the Laurens County arborist. Tree protection devices shall be erected as soon as practical prior to the start of construction and as encountered during the clearing process, and shall remain in place until final inspection of the clearing has been successfully completed. Broken or dislodged tree protection devices shall be immediately repaired. No vehicles shall be parked, or construction material stored, or substances spilled or disposed of or placed within the tree protection zone at any time.

Smaller trees shall be removed first to allow the larger trees to be felled with more care. Trees are to be felled in a direction away from trees which are to remain. Construction operations shall be conducted so as to prevent damage by falling trees to tree, foliage, and plant material left standing, to existing structures and installations, and to those under construction, to property existing outside the areas to be cleared, and so as to provide for the safety of employees and others. All stump holes must be filled using clean fill dirt, placed in one foot lifts and adequately compacted.

Trees designated to be left standing within the cleared areas shall be trimmed of dead branches 1-1/2" or more in diameter. Limbs and branches to be trimmed shall be neatly cut close to the trunk of the tree or main branches. Cuts of more than 1-1/2" in diameter thus made shall be painted with an approved tree wound paint manufactured for this specific purpose. In the case of important large trees where a small amount of cavity work would prolong the life of the tree, such work shall be done. The services of a qualified tree surgeon are recommended for this procedure.

All cleared material shall be removed from the site or burned. Disposal by burning may only be done when approved by Laurens County. Material disposed of by burning shall be burned in a manner that will avoid all hazards, such as damage to existing structures, construction in progress, trees to be preserved, and existing vegetation.

Land Disturbing Activities Plan
General Design Principles

For an erosion, sedimentation and pollution control program to be effective, it is imperative that provisions for sediment control measures be made in the planning stage. These planned measures when conscientiously and expeditiously applied during construction, will result in orderly development without adverse environmental degradation. The following key principals shall be utilized, to the maximum extent possible, in all planning.

1. Fit the Activity to the Topography and Soils.
   Detailed planning should be employed to assure the roadways, buildings and other permanent features of the activity conform to the natural characteristics of the site. Large graded areas should be located on the most level portion of the site. Areas subject to flooding should be avoided. Areas of steep slopes, erodible soils, and soils with severe limitations for the intended uses should not be utilized without overcoming the limitations through sound engineering practices. Erosion control, development and maintenance costs can be minimized if a site is selected for a specific activity.
2. The Disturbed area and Duration of Exposure to Erosion Elements Should be Minimized.
   Clearing of natural vegetation should be limited to only those areas of the site to be developed at a given time. Natural vegetation should be retained, protected and supplemented with construction scheduling employed to limit the duration of soil exposure.
3. Stabilize Disturbed Areas Immediately.
   Permanent structures, temporary or permanent vegetation, and mulch, or a combination of these measures, should be employed as quickly as possible after the land is disturbed. Temporary vegetation and mulches can be most effective on areas where it is not practical to establish permanent vegetation. These temporary measures should be employed immediately after rough grading is completed if a delay is anticipated on obtaining finished grade. The finished slope of a cut or fill should be stable and ease of maintenance considered in the design. Stabilize all roadways, parking areas, and paved areas with the gravel subbase, temporary vegetation or mulch.
4. Retain or Accommodate Runoff.
   Runoff from the development should be safely conveyed to a stable outlet using storm drains, diversions, stable waterways or similar conservation measures. Consideration should also be given to the installation of storm water retention structures to prevent flooding and damage to downstream facilities resulting from increased runoff from the site. Temporary or permanent facilities for conveyance of storm water should be designed to withstand the velocities of projected peak discharges. These facilities should be in operation as soon as possible after the start of construction.
5. Retain Sediment.
   Sediment basins, sediment barriers and related structures should be installed to filter or trap sediment on the site to be disturbed. The most effective method of controlling sediment, however, is to control erosion at its source. Sediment retention structures should be planned to retain sediment when erosion control methods are not practical, or insufficient, or in the process of being installed, or have failed due to some unforeseen factor.
6. Do not Encroach Upon Watercourses
   Permanent building should not be subjected to flooding, sediment damages or erosion hazards. Earth fills should not be constructed in flood-prone areas so as to adversely obstruct water flows. When Necessary to span a flood prone area or watercourse, bridge or culvert openings should be sized to permit passage of peak discharges without causing undue restrictions in water flows or without creating excessive downstream velocities. Uses of flood prone areas should be limited to activities which would not suffer excessive damages from flooding, scour, and sediment damages. Temporary bridges or culverts should be employed when construction equipment is required to cross natural or constructed channels.

(49)

SEDIMENT STORAGE CALCULATIONS

Sediment Storage Requirements: 0.59 Acres Disturbed Area X 67 CY per Acre = 40 CY

Silt Fence Provides 0.4 CY of Silt Storage per LF.

Storage Provided with Silt Fence = 1500 X 0.4 = 600 CY

Total Sediment Storage Provided as part of this project : 600 CY

JUSTIFICATION FOR ABSENCE OF SEDIMENT BASINS.

Sediment basins are not well suited for this road project due to the fact that the largest disturbance in any single basin on the project is approximately 2 acres. Since the project is linear it passes through many basins draining into a number of different small tributaries. Any single detention basin would serve a maximum of 2 acres of disturbance. The small amount of storage required in each basin along with the fact that the only flows that are draining into the ditches are the flows from the road (very low flow rates in the ditches) make it much more cost efficient to use sediment fence to retain sediment in the ditches.

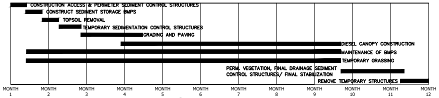
CONSIDERATIONS FOR CONSTRUCTION SCHEDULING

A SPECIFIED WORK SCHEDULE IS NEEDED TO COORDINATE THE TIMING OF LAND DISTURBING ACTIVITIES WITH THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES.

THE PURPOSE OF THE SCHEDULE IS TO REDUCE ON-SITE EROSION AND OFF-SITE SEDIMENTATION BY PERFORMING LAND DISTURBING ACTIVITIES AND INSTALLING EROSION AND SEDIMENTATION CONTROL PRACTICES IN ACCORDANCE WITH A PLANNED SCHEDULE.

IN PLANNING CONSTRUCTION WORK, IT MAY BE HELPFUL TO OUTLINE ALL LAND DISTURBING ACTIVITIES NECESSARY TO COMPLETE THE PROPOSED PROJECT. THEN LIST ALL PRACTICES NEEDED TO CONTROL EROSION AND SEDIMENTATION ON THE SITE. THESE TWO LISTS CAN THEN BE COMBINED IN LOGICAL ORDER TO PROVIDE A PRACTICAL AND EFFECTIVE CONSTRUCTION SEQUENCE SCHEDULE THAT BECOMES PART OF THE EROSION AND SEDIMENTATION CONTROL PLAN.

CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
1. OBTAIN ALL PLAN APPROVALS AND OTHER APPLICABLE PERMITS.	
2. FLAG THE WORK LIMITS AND MARK THE TREES AND BUFFER AREAS FOR PROTECTION.	
3. HOLD PRE CONSTRUCTION CONFERENCE AT LEAST ONE WEEK PRIOR TO STARTING CONSTRUCTION.	
4. CONSTRUCTION ACCESS - CONSTRUCTION ENTRANCE, CONSTRUCTION ROUTES, EQUIPMENT PARKING AREAS.	FIRST LAND DISTURBING ACTIVITY -- STABILIZE BARE AREAS IMMEDIATELY WITH GRAVEL AND AND TEMPORARY VEGETATION AS CONSTRUCTION TAKES PLACE.
5. SEDIMENT TRAPS AND BARRIERS - BASIN TRAPS, SEDIMENT FENCES, AND OUTLET PROTECTION.	INSTALL PRINCIPAL BASINS AFTER CONSTRUCTION SITE IS ACCESSED. INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING.
6. RUNOFF CONTROL - DIVERSIONS, PERIMETER DIKES, WATER BARS, AND OUTLET PROTECTION.	INSTALL KEY PRACTICES AFTER PRINCIPAL SEDIMENT TRAPS AND BEFORE LAND GRADING. INSTALL ADDITIONAL RUNOFF-CONTROL MEASURES DURING GRADING.
7. RUNOFF CONVEYANCE SYSTEM- STABILIZE STREAM BANKS, STORM DRAINS, CHANNELS, INLET AND OUTLET PROTECTION, SLOPE DRAINS.	WHERE NECESSARY, STABILIZE STREAM BANKS AS EARLY AS POSSIBLE. INSTALL PRINCIPAL RUNOFF CONVEYANCE SYSTEM WITH RUNOFF-CONTROL MEASURES. INSTALL REMAINDER OF SYSTEM AFTER GRADING.
8. LAND CLEARING AND GRADING-SITE PREPARATION CUTTING, FILLING AND GRADING, SEDIMENTATION TRAPS, BARRIERS, DIVERSIONS, DRAINS,SURFACE ROUGHENING.	BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL SEDIMENT AND KEY RUNOFF-CONTROL MEASURES ARE INSTALLED. CLEAR BORROW AND DISPOSAL AREAS ONLY AS NEEDED. INSTALL ADDITIONAL CONTROL MEASURES AS GRADING PROGRESSES. MARK TREES AND BUFFER AREAS FOR PRESERVATION.
9. SURFACE STABILIZATION-TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
10. BUILDING CONSTRUCTION- BUILDINGS UTILITIES, PAVING.	INSTALL NECESSARY EROSION AND SEDIMENTATION CONTROL PRACTICES AS WORK TAKES PLACE.
11. LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING RIPRAP.	LAST CONSTRUCTION PHASE--STABILIZE ALL OPEN AREAS, INCLUDING BORROW AND SPOIL AREAS. REMOVE AND STABILIZE ALL TEMPORARY CONTROL MEASURES.



(29)

EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES

1. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL EXISTING UTILITIES. EXISTING UTILITIES ARE ALL UTILITIES ON THE PROJECT IN AN ORIGINAL, RELOCATED OR NEWLY INSTALLED POSITION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGED UNDERGROUND OR OVERHEAD FACILITIES, EVEN IF THE UTILITY IS NOT SHOWN ON THE SITE DEVELOPMENT PLANS. THE CONTRACTOR SHALL CONTACT THE UTILITIES PROTECTION CENTER AT 1-800-282-7411 TO COORDINATE THE MARKING OF EXISTING UTILITY LINES A MAXIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF ANY WORK.
2. CONTRACTOR SHALL FLUSH ALL INLETS AND PIPE AT THE COMPLETION OF CONSTRUCTION TO REMOVE SILT AND DEBRIS. THE CLEANING AND FLUSHING OF INLETS AND PIPE (EXISTING AND PROPOSED) SHALL BE CONSIDERED PART OF THE COST FOR PIPE ON THE PROJECT.
3. VEHICLES LEAVING THE SITE MUST TRAVERSE CONSTRUCTION EXITS TO REMOVE MUD FROM TIRES.
4. SCHEDULE CONSTRUCTION ACTIVITIES TO MINIMIZE THE EXPOSED AREA AND DURATION OF EXPOSURE. IN SCHEDULING, TAKE INTO ACCOUNT THE SEASON AND THE WEATHER FORECAST.
5. EROSION CONTROL MEASURES ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL CONTROL MEASURES AS DICTATED BY ACTUAL FIELD CONDITIONS AT THE TIME OF CONSTRUCTION IN ORDER TO PREVENT EROSION AND CONTROL SEDIMENT. THE CONTRACTOR SHALL BE FAMILIAR WITH THE "NARRATIVE DESCRIPTION: LAND DISTURBING ACTIVITIES" REPORT ACCOMPANYING THIS PROJECT, AND HAVE A CLEAR UNDERSTANDING OF THE CONCEPTS, APPLICATIONS, STANDARDS AND SPECIFICATIONS OF THE BEST MANAGEMENT PRACTICES LISTED IN SAID DOCUMENT, EROSION AND SEDIMENT CONTROL MEASURES WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE ENTIRE PROJECT IS TERMINATED OR SUSPENDED FOR AN INDEFINITE LENGTH OF TIME, ALL DISTURBED AREAS SHALL BE PLANTED WITH PERMANENT VEGETATION.
6. THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS, OR IN ANY WAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, IS BASED UPON FIELD INVESTIGATIONS AND IS BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME IS SHOWN AS INFORMATION ONLY, IS NOT GUARANTEED AND DOES NOT BIND CHRISTIAN & ELLINGTON, OR THE OWNER IN ANY WAY.
7. CONTRACTOR SHALL MAINTAIN SITE ON A DAILY BASIS TO PROVIDE FOR POSITIVE DRAINAGE. CONTRACTOR, AT HIS COST, SHALL GRADE SITE AND PROVIDE NECESSARY TEMPORARY DRAINAGE SWALES TO INSURE STORM WATER DOES NOT POND ON SITE.
8. SITE DRAINAGE SHALL BE ESTABLISHED TO PREVENT ANY PONDED WATER CONDITIONS WITHIN THE CONSTRUCTION AREA AND TO FACILITATE THE RAPID RUN-OFF OF STORM WATER.
9. LIME RATES AND ANALYSIS AGRICULTURAL LIME SHALL BE APPLIED AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.
10. MULCHING (MULCHING IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED:) DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF TWO TONS PER ACRE. DRY HAY SHALL BE APPLIED AT THE RATE OF 2 1/2 TONS PER ACRE. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT A RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED(AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 3/4:1 OR STEEPER. SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF 3 TONS PER ACRE. PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS. WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLACK SOD, MULCH IS NOT REQUIRED.
11. CONSTRUCTION WASTES: DEMOLITION RUBBLE, PACKAGING MATERIALS, SCRAP BUILDING SUPPLIES, ETC. SELECT A DESIGNATED WASTE COLLECTION AREA PROVIDE LIDS FOR WASTE CONTAINERS WHEN POSSIBLE LOCATE CONTAINERS IN COVERED AREA MAINTAIN CONSISTENT REMOVAL SCHEDULE FOR WASTE
12. PESTICIDES: REDUCE THE AMOUNT OF PESTICIDES AVAILABLE FOR CONTACT WITH STORM WATER. STORE IN A DRY COVERED AREA INSTALL CURBS OR DIKES AROUND STORAGE AREA TO PROTECT AGAINST SPILLS STRICTLY FOLLOW RECOMMENDED APPLICATION RATES
13. FERTILIZERS AND DETERGENTS: REDUCE THE AMOUNT OF FERTILIZERS AND DETERGENTS AVAILABLE FOR CONTACT WITH STORM WATER. LIMIT APPLICATION OF FERTILIZERS TO THE MINIMUM NEEDED APPLY MORE FREQUENTLY BUT AT LOWER APPLICATION RATES * LIMIT USE OF DETERGENTS ON-SITE * DO NOT DISCHARGE WASH WATER INTO STORM WATER SYSTEM MAINTAIN STRUCTURAL AND VEGETATIVE BMP'S
14. PETROLEUM PRODUCTS: INCLUDE OIL, GASOLINE, LUBRICANTS AND ASPHALTIC SUBSTANCES. * HAVE EQUIPMENT TO CONTAIN AND CLEAN UP PETROLEUM SPILLS IN FUEL STORAGE AREAS OR ON MAINTENANCE AND FUELING VEHICLES * STORE IN COVERED AREAS PROTECTED WITH DIKES * REGULARLY INSPECT FOR CRACKS OR LEAKAGE IN CONTAINERS/TANKS
15. SANITARY / SEPTIC WASTES: ON-SITE SANITARY FACILITIES. * REGULAR SERVICING BY A QUALIFIED DOMESTIC WASTE HAULER TO PREVENT OVERFILLING * PLACEMENT OF FACILITIES SHOULD BE OUT OF HIGH FLOW AREAS AND IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS * REGULARLY INSPECT FOR CRACKS OR LEAKAGE IN CONTAINERS/TANKS
16. SPILLS: PREVENTION AND RESPONSE. * STORE AND HANDLE MATERIALS TO PREVENT SPILLS + TIGHTLY SEALED CONTAINERS, NEAT AND SECURE STACKING, ETC. * REDUCE STORM WATER CONTACT IF SPILL OCCURS + CLEANUP PROCEDURES SHOULD BE CLEARLY POSTED. + CLEANUP MATERIALS SHOULD BE READILY AVAILABLE + STOP THE SOURCE + CONTAIN THE SPILL
17. PETROLEUM PRODUCTS ARE EXPECTED ON-SITE AND SHOULD BE CONTAINED AND STORED IN DESIGNATED AREAS.

FERTILIZER REQUIREMENTS

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. COOL SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500lbs./ac. 1000lbs./ac. 400 lbs./ac.	50-100 lbs./ac. - 30 * 1 & 2
2. COOL SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500lbs./ac. 1000lbs./ac. 400 lbs./ac.	50-100 lbs./ac. - - * 1
3.GROUND COVERS	FIRST SECOND MAINTENANCE	10-10-10 10-10-10 10-10-10	1300lbs./ac. 1300lbs./ac. 1100 lbs./ac.	- * 3 - * 3 -
4. PINE SEEDLINGS	FIRST	20-10-5	ONE 21-GRAM PELLET PER SEEDLING PLACED IN THE CLOSING HOLE	-
5. SHRUB LESPEDEZA	FIRST MAINTENANCE	0-10-10 0-10-10	700lbs./ac. 700lbs./ac.	- * 4
6. TEMPORARY COVER CROPS SEEDED ALONE GRASSES	FIRST	10-10-10	500lbs./ac.	30 lbs./ac. * 5
7. WARM SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500lbs./ac. 800lbs./ac. 400 lbs./ac.	50-100 lbs./ac. * 2 & 6 50-100 lbs./ac. 30 lbs./ac. * 2
8. WARM SEASON	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500lbs./ac. 1000lbs./ac. 400 lbs./ac.	50-100 lbs./ac. * 6

** 1 APPLY IN SPRING FOLLOWING SEEDING.*
** 2 APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.*
** 3 APPLY IN 3 SPLIT APPLICATIONS.*
** 4 APPLY WHEN PLANTS ARE PRUNED.*
** 5 APPLY TO GRASS SPECIES ONLY.*
** 6 APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.*

CIRCLED NUMBERS CORRESPOND TO CHECKLIST

GENERAL NOTES:

(14.) OWNER MUST CONTACT THE DESIGNER AS SOON AS INITIAL BMPS ARE INSTALLED FOR INSPECTION. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT AND CERTIFY THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITH 7 DAYS AFTER INSTALLATION.

(15.) NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITH 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 JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

(17.) ANY AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

(18.) WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. ANY WASTE GENERATED DURING THIS PROJECT MUST BE DISPOSED OF OFFSITE.

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

(20.) EROSION AND SEDIMENTATION 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 AND TREAT THE SEDIMENT AT THE SOURCE.

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

(24.) THIS PROJECT INCLUDES A CONCRETE WASH DOWN AREA LOCATED ON THE INITIAL AND INTERMEDIATE EROSION CONTROL PLANS.

(25.) CONTRACTOR SHALL DESIGNATE AN AREA NEAR THE CONSTRUCTION ENTRANCE FOR ALL ON SITE FUELING OPERATIONS. THE AREA SHOULD BE SLIGHTLY LOWER THAN SURROUNDING GRADE SUCH THAT IN THE EVENT OF A SPILL THE SPILL WILL BE CONTAINED AND CAN BE REMOVED IMMEDIATELY. THE REFUELING AREA SHOULD BE INSPECTED DAILY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THE PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTER MEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

(26.) THE PROJECT INCLUDES PERMANENT VEGETATION ALONG ALL SHOULDERS AND DITCHES ALONG THE NEW ROAD AND ON ALL DISTURBED AREAS. THIS WILL ALLOW THE WATER TO SETTLE IN THE DITCHES AND WATER TO SEEP MORE EFFICIENTLY INTO THE GROUND AFTER THE PROJECT IS COMPLETED.

(27&28) THIS PROJECT WILL INCLUDE A TEMPORARY SEDIMENT BASIN THAT WILL ALLOW POLLUTANTS AMPLE OPPORTUNITY TO SETTLE OUT BEFORE LEAVING THE SITE DURING THE PROJECT. THIS WILL ALLOW ANY POLLUTANTS TO SETTLE OUT OF THE STORM RUNOFF BEFORE LEAVING THE SITE. BUILDING MATERIALS WILL BE STORED UNDER TEMPORARY SHELTER UNTIL THE HOUSE ROOFS ARE UP AND THEN UNDER THE NEW HOUSE ROOF FROM THEN ON. THE ENTIRE SITE WILL BE GRASSED WITH PERMANENT GRASSING AT THE END OF THE PROJECT TO AID IN POLLUTANTS ENTERING THE GROUND AND BEING FILTERED BEFORE BECOMING GROUND WATER.

(34.) WATERS LEAVING BOTH SEDIMENT BASINS SHOULD TEST TO HAVE A TURBIDITY OF NO MORE THAN 75 NTU FOR THE GRAB SAMPLING.
THE DRAINAGE AREA TO EACH SEDIMENT BASIN IS LESS THAN 1 SQUARE MILE. THE PROJECT SITE DRAINING TO SEDIMENT BASINS IS X ACRES TOTAL, WHICH IS BETWEEN 1.00 AND 10 ACRES. THE FLOW DRAINS INTO WARM WATER FISHERIES.

CERTIFICATIONS:

(13.) 1. I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORMWATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR100001.

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

3. PROJECT IS DESIGNED TO MEET SANITARY SEWER REGULATIONS.

GEORGIA811
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Contact 811 before you dig.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF DUBLIN ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

No. PE038522
BRIAN T. ELLINGTON

LEVEL II DESIGN
PROFESSIONAL NUMBER 94328
EXPIRES: 05/14/2027

CLIENT

CITY OF DUBLIN
100 S CHURCH ST
DUBLIN, GA 31021
PHONE: 478.272.1620

FIXED AND PORTABLE GENERATOR INSTALLATIONS EROSION CONTROL PLANS

DUBLIN, GA 31021

CE
CHRISTIAN & ELLINGTON
ENGINEERING | LAND SURVEYING
709 BELLEVUE AVENUE DUBLIN,
GEORGIA 31021
(478) 272-3013 | PEF005476

REVISIONS

NO.	DATE	
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

PLAN INFORMATION

PROJECT NO.2025178
FILENAME 2025178-ESPC
CHECKED BY JLC
DRAWN BY BTE
SCALE ########
DATE 03. 18. 2026

SHEET

EROSION CONTROL NOTES

C6.18

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EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS GAR100001

SWCD:____

Project Name:EMERGENCY 14-INCH HDD WATER MAIN **Address:I-16, DUBLIN, GA 31021**

Local Issuing Authority:CITY OF DUBLIN **Date on Plans:3/16/26**

Name & Email of person filling out checklist:BRIAN ELLINGTON brian@christianeng.com

TO BE SHOWN ON ES&PC PLAN

Plan Page #	Included Y/N		
ALL	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. **Permit IV.D.1. pg 27**
ALL	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. The Level II certification must be issued to the Design Professional, **after completion of a GSWCC approved course**, and whose signature and seal are on the Plan.
N/A	N/A	3	Limits of disturbance shall be **less 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 the GAEPD approval letter and completed Appendix 1 of this checklist with at least 4 of the chosen BMPs. * A copy of the written approval by GAEPD must be attached to the Plan for the Plan to be reviewed. **Permit IV.D.3. pg 28**
COVER	Y	4	The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
C6.18	Y	5	Provide the name, address, email address, and phone number of Primary Permittee.
C6.18	Y	6	Note total and disturbed acreages of the project or phase under construction.
C6.01- C6.15	Y	7	Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
ALL	Y	8	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
C6.18	Y	9	Descriptions of the nature of construction activity and existing site conditions.
COVER	Y	10	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
N/A	N/A	11	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
C6.18	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 20** of the permit.
C6.18	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 20** of the permit. *
C6.18	Y	14	Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect **and certify** the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." *
C6.18	Y	15	Clearly note the statement that "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."
C6.18	Y	16	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
C6.18	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." *
C6.18	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." *
C6.18	Y	19	Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
C6.18	Y	20	Clearly note statement that "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."
C6.18	Y	21	Clearly note the statement "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 a Biota Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as any portion of a Biota Impaired Stream Segment, must comply with **Part III.C.** of the permit. Include the completed Appendix 1 of this checklist with at least 4 of the chosen 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 Biota 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. *
C6.18	Y	24	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Include statement that washout of the drum at the construction site is prohibited. *
C6.18	Y	25	Provide BMPs for the remediation of all petroleum spills and leaks.
C6.18	Y	26	Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
C6.18	Y	27	Description of practices to provide cover for building materials and building products on site. *
C6.18	Y	28	Description of the practices that will be used to reduce the pollutants in storm water discharges. *
C6.18	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, grading, infrastructure, temporary and final stabilization).
C6.16	Y	30	Provide complete requirements of Inspections and record keeping by the Primary Permittee. *
C6.16	Y	31	Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
C6.16	Y	32	Provide complete details for Retention of Records as per **Part IV.F.** of the permit. *
C6.16	Y	33	Description of analytical methods to be used to collect and analyze the samples from each location. *
C6.18	Y	34	Appendix B rationale for NTU values at all outfall sampling points where applicable. *
ALL	Y	35	Delineate all sampling locations on **all phases of** the Plan, and perennial and intermittent streams and other water bodies into which storm water is discharged. *
N/A	N/A	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 sediment storage requirements and initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all BMPs into a single phase plan. *
ALL	Y	37	Graphic scale and North arrow.
C6.01- C6.15	Y	38	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2% Rolling 2 - 8% Steep 8% +	0.5 or 1 1 or 2 2, 5 or 10

Plan Page #	Included Y/N		
N/A	N/A	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). Refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
N/A	N/A	40	Use of Alternative BMP for application to the Equivalent BMP List. Refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
N/A	N/A	41	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State Waters and any additional buffers as required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
C6.01- C6.15	Y	42	Delineation of all State Waters and wetlands located on or within 200 feet of the project site.
N/A	N/A	43	Delineation and acreage of contributing drainage basins on the project site.
N/A	N/A	44	Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
N/A	N/A	45	Estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. **For solar farm projects, post-construction impervious area shall be calculated as 70% of total solar panel square footage.**
N/A	N/A	46	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate at all storm water discharge points.
C6.01- C6.15	Y	47	Soil series for the project site and their delineation.
C6.01- C6.15	Y	48	The limits of disturbance for each phase of construction.
C6.01- C6.15	Y	49	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted 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 final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable 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 attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, Permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
C6.01- C6.15	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.
C6.16- C6.20	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.
C6.17 C6.20	Y	52	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding 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 but within 200 ft of a perennial stream, the * checklist items would be N/A.**

Effective January 1, 2026

No. PE038522
BRIAN T. ELLINGTON

LEVEL II DESIGN
PROFESSIONAL NUMBER 94328
EXPIRES: 05/14/2027

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FIXED AND PORTABLE GENERATOR INSTALLATIONS EROSION CONTROL PLANS

DUBLIN, GA 31021

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REVISIONS

NO.	DATE	
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PLAN INFORMATION

PROJECT NO. 2025178
FILENAME 2025178-ESPC
CHECKED BY JLC
DRAWN BY BTE
SCALE ########
DATE 03. 18. 2026

SHEET

EROSION CONTROL CHECKLIST

C6.19

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Disturbed Area Stabilization (With Permanent Vegetation)

Ds3

DEFINITION

The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent perennial vegetation shall be used to achieve final stabilization.

PURPOSE

- To protect the soil surface from erosion
- To reduce damage from sediment and runoff to down-stream areas
- To improve wildlife habitat and visual resources
- To improve aesthetics

REQUIREMENT FOR REGULATORY COMPLIANCE

This practice shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice or sodding shall be applied immediately to all areas at final grade. **Final Stabilization** means that all soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by the GA EPD for waste disposal, 100% of the soil surface is uniformlycovered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures. Permanent vegetation shall consist of, planted trees, shrubs, perennial vines; or a crop of perennial vegetation appropriate for the region, such that within the growing season a 70% coverage by perennial vegetation shall be achieved. Final stabilization applies to each phase of construction. For linear construction projects on land used for agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land for its agricultural or silvicultural use. Until this standard is satisfied and permanent control measures and facilities are operational, interim stabilization measures and temporary erosion and sedimentation control measures shall not be removed.

CONDITIONS

Permanent perennial vegetation is used to provide a protective cover for exposed areas including cuts, fills, dams, and other denuded areas.

PLANNING CONSIDERATIONS

1. Use conventional planting methods where possible.
2. When mixed plantings are done during marginal planting periods, companion crops shall be used.
3. No-till planting is effective when planting is done following a summer or winter annual cover crop. Sericea lespedeza planted no-till into stands of rye is an excellent procedure.
4. Block sod provides immediate cover. It is especially effective in controlling erosion adjacent to concrete flumes and other structures. Refer to Specification **Ds4-Disturbed Area Stabilization (With Sodding)**.
5. Irrigation should be used when the soil is dry or when summer plantings are done.
6. Low maintenance plants, as well as natives, should be used to ensure long-lasting erosion control.
7. Mowing should not be performed during the quail nesting season (May to September).
8. Wildlife plantings should be included in critical area plantings.

Wildlife Plantings

Commercially available plants beneficial to wildlife species include the following:

Mast Bearing Trees

Beech, Black Cherry, Blackgum, Chestnut, Chinkapin, Hackberry, Hickory, Honey Locust, Native Oak, Persimmon, Sawtooth Oak and Sweetgum.

All trees that produce nuts or fruits are favored by many game species. Hickory provides nuts used mainly by squirrels and bear.

Shrubs and Small Trees

Bayberry, Bicolor Lespedeza, Crabapple, Dogwood, Huckleberry or Native Blueberry, Mountain Laurel, Native Holly, Red Cedar, Red Mulberry, Sumac, Wax Myrtle, Wild Plum and Blackberry.

Plant in patches without tall trees to develop stable shrub communities. All produce fruits used by many kinds of wildlife, except for lespedeza that produces seeds used by quail and songbirds.

Grasses, Legumes, Vines and Temporary Cover

Bahiagrass, Bermudagrass, Grass-Legume mixtures, Partridge Pea, Annual Lespedeza, Orchardgrass (for mountains), Browntop Millet (for temporary cover), and Native grapes.

Provides herbaceous cover in clearings for a game bird brood-rearing habitat. Appropriate legumes such as vetches, clovers, and lespedezas may be mixed with grass, but they may die out after a few years.

CONSTRUCTION SPECIFICATIONS

Grading and Shaping

Grading and shaping may not be required where hydraulic seeding and fertilizing equipment is to be used. Vertical banks shall be sloped to enable plant establishment.

When conventional seeding and fertilizing are to be done, grade and shape where feasible and practical, so that equipment can be used safely and efficiently during seedbed preparation, seeding, mulching and maintenance of the vegetation.

Concentrations of water that will cause excessive soil erosion shall be diverted to a safe outlet. Diversions and other treatment practices shall conform with the appropriate standards and specifications.

Lime and Fertilizer Rates and Analysis

Agricultural lime is required at the rate of one to two tons per acre unless soil tests indicate otherwise. Graded areas require lime application. If lime is applied within six months of planting permanent perennial vegetation, additional lime is not required. Agricultural lime shall be within the specifications of the Georgia Department of Agriculture.

Lime spread by conventional equipment shall be "ground limestone." Ground limestone is calcitic or dolomitic limestone ground so that 90 percent of the material will pass through a 10-mesh sieve, not less than 50 percent will pass through a 50-mesh sieve and not less than 25 percent will pass through a 100-mesh sieve.

Fast-acting lime spread by hydraulic seeding equipment should be "finely ground limestone" spanning from the 180 micron size to the 5 micron size. Finely ground limestone is calcitic or dolomitic limestone ground so that 95 percent of the material will pass through a 100-mesh sieve.

It is desirable to use dolomitic limestone in the Sand Hills, Southern Coastal Plain and Atlantic Coast Flatwoods MLRAs. (See Figure 6-4.1)

Agricultural lime is generally not required where only trees are planted.

Initial fertilization, nitrogen, topdressing, and maintenance fertilizer requirements for each species or combination of species are listed in Table 6-5.1.

Lime and Fertilizer Application

When *hydraulic seeding* equipment is used, the initial fertilizer shall be mixed with seed, innoculant (if needed), and wood cellulose or wood pulp fiber mulch and applied in a slurry. The innoculant, if needed, shall be mixed with the seed prior to being placed into the hydraulic seeder. The slurry mixture will be agitated during application to keep the ingredients thoroughly mixed. The mixture will be spread uniformly over the area within one hour after being placed in the hydroseeder.

Finely ground limestone can be applied in the mulch slurry or in combination with the top dressing.

When *conventional planting* is to be done, lime and fertilizer shall be applied uniformly in one of the following ways:

1. Apply before land preparation so that it will be mixed with the soil during seedbed preparation.
2. Mix with the soil used to fill the holes, distribute in furrows.
3. Broadcast after steep surfaces are scarified, pitted or trenched.
4. A fertilizer pellet shall be placed at root depth in the closing hole beside each pine tree seedling.

Plant Selection

Refer to Tables 6-4.1, 6-5.2, 6-5.3 and 6-5.4 for approved species. Species not listed shall be approved by the State Resource Conservationist of the Natural Resources Conservation Service before they are used.

Plants shall be selected on the basis of species characteristics, site and soil conditions, planned use and maintenance of the area; time of year of planting, method of planting; and the needs and desires of the land user.

Some perennial species are easily established and can be planted alone. Examples of these are Common Bermuda, Tall Fescue, and Weeping Lovegrass.

Other perennials, such as Bahia Grass and Sericea Lespedeza, are slow to become established and should be planted with another perennial species. The additional species will provide quick cover and ample soil protection until the target perennial species become established. For example, Common seeding combinations are 1) Weeping Lovegrass with Sericea Lespedeza (scarified) and 2) Tall Fescue with Sericea Lespedeza (unscarified).

Plant selection may also include annual companion crops. Annual companion crops should be used only when the perennial species are not planted during their optimum planting period. A common mixture is Brown Top Millet with Common Bermuda in mid-summer. Care should be taken in selecting companion crop species and seeding rates because annual crops will compete with perennial species for water, nutrients, and growing space. A high seeding rate of the companion crop may prevent the establishment of perennial species.

Ryegrass shall not be used in any seeding mixtures containing perennial species due to its ability to out-compete desired species chosen for permanent perennial cover.

Seed Quality

The term "pure live seed" is used to express the quality of seed and is not shown on the label. Pure live seed, PLS, is expressed as a percentage of the seeds that are pure and will germinate. Information on percent germination and purity can be found on seed tags. PLS is determined by multiplying the percent of pure seed with the percent of germination; i.e.,

(PLS = % germination x % purity)

EXAMPLE:

Common Bermuda seed
70% germination, 80% purity

PLS = 70% germination x 80% purity

PLS = 56%

The percent of PLS helps you determine the amount of seed you need. If the seeding rate is 10 pounds PLS and the bulk seed is 56 % PLS, the bulk seeding rate is:

$$\frac{\text{10 lbs. PLS/acre}}{\text{56\% PLS}} = \text{17.9 lbs/acre}$$

You would need to plant 17.9 lbs/acre to provide 10 lbs/acre of pure live seed.

Seedbed Preparation

Seedbed preparation may not be required where hydraulic seeding and fertilizing equipment is to be used (but is strongly recommended for any seeding process, when possible). When conventional seeding is to be used, seedbed preparation will be done as follows:

Broadcast plantings

1. Tillage, at a minimum, shall adequately loosen the soil to a depth of 4 to 6 inches; alleviate compaction; incorporate lime and fertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or plants; and allow for the anchoring of straw or hay mulch if a disk is to be used.
2. Tillage may be done with any suitable equipment.
3. Tillage should be done on the contour where feasible.
4. On slopes too steep for the safe operation of tillage equipment, the soil surface shall be pitted or trenched across the slope with appropriate hand tools to provide two places 6 to 8 inches apart in which seed may lodge and germinate. Hydraulic seeding may also be used.

Individual Plants

1. Where individual plants are to be set, the soil shall be prepared by excavating holes, opening furrows, or dibble planting.
2. For nursery stock plants, holes shall be large enough to accommodate roots without crowding.
3. Where pine seedlings are to be planted, subsoil under the row 36 inches deep on the contour four to six months prior to planting. Subsoiling should be done when the soil is dry, preferably in August or September.

Innoculants

All legume seed shall be inoculated with appropriate nitrogen-fixing bacteria. The innoculant shall be a pure culture prepared specifically for the seed species and used within the dates on the container.

A mixing medium recommended by the manufacturer shall be used to bond the innoculant to the seed. For conventional seeding, use twice the amount of innoculant recommended by the manufacturer. For hydraulic seeding, four times the amount of innoculant recommended by the manufacturer shall be used.

All inoculated seed shall be protected from the sun and high temperatures and shall be planted the same day inoculated. No inoculated seed shall remain in the hydroseeder longer than one hour.

Planting

Hydraulic Seeding

Mix the seed (innoculated if needed), fertilizer, and wood cellulose or wood pulp fiber mulch with water and apply in a slurry uniformly over the area to be treated. Apply within one hour after the mixture is made.

Conventional Seeding

Seeding will be done on a freshly prepared and firmed seedbed. For broadcast planting, use a culti-packer-seeder, drill, rotary seeder, other mechanical seeder, or hand seeding to distribute the seed uniformly over the area to be treated. Cover the seed lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 to 1 inch for large seed when using a cultipacker or other suitable equipment.

No-Till Seeding

No-till seeding is permissible into annual cover crops when planting is done following maturity of the cover crop or if the temporary cover stand is sparse enough to allow adequate growth of the permanent (perennial) species. No-till seeding shall be done with appropriate no-till seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

Individual Plants

Shrubs, vines and sprigs may be planted with appropriate planters or hand tools. Pine trees shall be planted manually in the subsoil furrow. Each plant shall be set in a manner that will avoid crowding the roots.

Nursery stock plants shall be planted at the same depth or slightly deeper than they grew at the nursery. The tips of vines and sprigs must be at or slightly above the ground surface.

Where individual holes are dug, fertilizer shall be placed in the bottom of the hole, two inches of soil shall be added and the plant shall be set in the hole.

Mulching

Mulch is required for all permanent vegetation applications. Mulch applied to seeded areas shall achieve 75% to 100% soil cover. When selecting a mulch, design professionals should consider the mulch's functional longevity, vegeta-

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No. PE038522
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PROJECT NO. 2025178
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EROSION CONTROL DETAILS

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