4 OWNER/PRIMARY PERMITTEE:

STROUD AND COMPANY
P.O. BOX 4044
MACON, GA 31208
478-743-5097
bholt@stroudandcompany.com

SITE ENGINEER:

MOORE CIVIL CONSULTING, INC.
402 COURTNEY HODGES BLVD
PERRY, GA 31069 CONTACT:
ROBERT E. MOORE, JR.
PHONE: 706-224-1629
robert@moorecivil.com

SURVEYOR:

STRANGE LAND SURVEYING, INC.
3333 NORTHSIDE DR, STE. F
MACON, GA 31210
PHONE: 478-475-4433

24-HOUR CONTACT: BEN HOLT
PHONE NUMBER: 478-256-2380

CONSTRUCTION PLANS FOR

NATIONWIDE EXPANSION

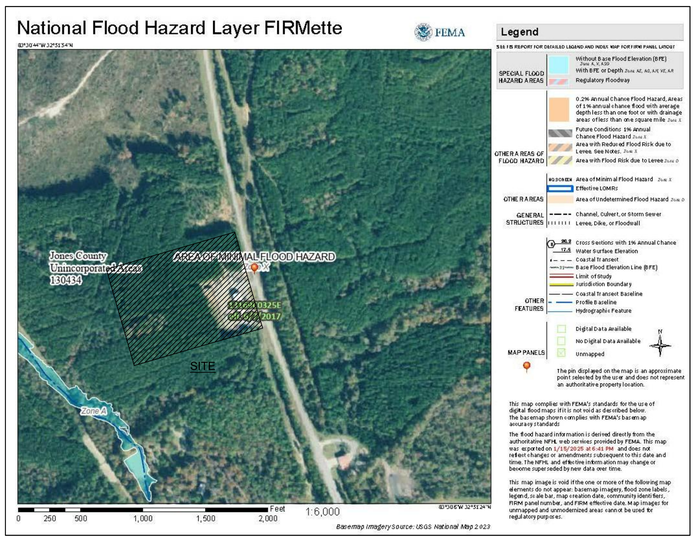
GRISWOLDVILLE INTERNATIONAL BLVD

MACON, JONES COUNTY, GA 31217

SHEET INDEX

*ESPC = EROSION SEDIMENTATION AND POLLUTION CONTROL

LOCATION MAP (N.T.S.)



THIS PROPERTY IS NOT LOCATED WITHIN THE BASE FLOOD PLAIN AS PER FIRM MAP PANEL NUMBER 13169C0325E DATED JUNE 7, 2017.

SIDEWALK AND ADA SPACE SLOPE:

CROSS SLOPE ON ALL SIDEWALKS SHALL NOT EXCEED 2.0%.
ADA PARKING AND VAN SPACES SHALL NOT EXCEED 2.0% SLOPE IN ANY DIRECTION.

DO NOT DUPLICATE DRAWINGS WITHOUT PERMISSION

CAUTION

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CONTRACTOR SHALL BE RESPONSIBLE FOR COMPACTION OF BACKFILL OF ALL UTILITY TRENCHES WITHIN SITE WORK LIMITS. THIS INCLUDES TRENCHES DUG AND BACKFILLED BY LOCAL UTILITIES, SUCH AS POWER, GAS, TELEPHONE, ETC. CONTRACTOR SHALL PROVIDE ADDITIONAL BACKFILL AND COMPACTION AS NECESSARY, IF SETTLEMENT OCCURS.

9 ## NARRATIVE

THIS PROJECT INVOLVES THE CONSTRUCTION OF A WAREHOUSE BUILDING, GRAVEL LAYDOWN YARD, AND DETENTION POND IN JONES COUNTY, GA. THE EXISTING LOT CONSISTS OF AN EXISTING BUILDING AND PAVED AREA THAT DRAINS TO THE WEST OF THE SITE AND ULTIMATELY DRAINS TO A TRIBUTARY OF CAULEY LAKE.

THE PROPOSED DEVELOPMENT WILL UTILIZE A STORM WATER PIPE SYSTEM TO CONVEY STORM WATER RUNOFF THROUGH A PROPOSED DETENTION POND THAT EVENTUALLY DRAINS TO A TRIBUTARY OF CAULEY LAKE. WITH THE USE OF EROSION CONTROL BMPs FROM THE GEORGIA EROSION CONTROL MANUAL THERE SHOULD BE NO HARMFUL EFFECTS ON DOWNSTREAM PROPERTIES DUE TO THIS DEVELOPMENT.

29

CONSTRUCTION SCHEDULE	
MONTH 1 → MONTH 12	ACTIVITY
NOTIFY INSPECTOR 24 HOURS PRIOR TO CONSTRUCTION:	
	PLACEMENT OF CONSTRUCTION EXIT, PERIMETER BMPs, AND SILT STORAGE BMPs
	NO GRADING OPERATIONS ALLOWED UNTIL PERIMETER AND SILT STORAGE BMPs ARE PROPERLY INSTALLED AND INSPECTED)
	CLEARING, GRUBBING, AND GRADING OPERATIONS (AS NECESSARY)
	INSTALL PARKING LOT ADDITION AND CONSTRUCTION OF BUILDING
	GRASSING - INCLUDING MULCHING, TEMPORARY AND PERMANENT VEGETATION
	MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES
	FINAL STABILIZATION OF SITE

GENERAL NOTES

BOUNDARY & TOPO INFORMATION TAKEN FROM SURVEY BY STRANGE LAND SURVEYING, INC.

PROPERTY IS LOCATED IN THE 34 LAND LOT OF THE 7TH DISTRICT, 304TH GA MILITIA DISTRICT, JONES COUNTY, GEORGIA.

NOTIFY THE JONES COUNTY INSPECTION OFFICE 24 HRS BEFORE BEGINNING OF CONSTRUCTION.

ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.

STANDARD AND SPECIFICATIONS: ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA."

ANY DISCREPANCY FOUND SHALL BE REFERRED TO THE SITE ENGINEER BY THE CONTRACTOR FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

CUT & FILL SLOPES SHALL NOT EXCEED 2:1

ALL CUT & FILL SLOPES MUST BE SURFACE ROUGHENED AND VEGETATED WITHIN SEVEN DAYS OF THEIR CONSTRUCTION

ALL FILL SLOPES WILL HAVE SILT FENCE AT TOE OF SLOPES ANY DISCREPANCY FOUND SHALL BE REFERRED TO THE SITE ENGINEER BY THE CONTRACTOR FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

ALL CONSTRUCTION SHALL MEET OR EXCEED JONES COUNTY MINIMUM STANDARDS. ALL GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY ALL GRADES. CONTRACTOR SHALL VERIFY ALL BENCH MARKS BEFORE BEGINNING ANY WORK. CONTRACTOR HAS OPTION TO USE PRECAST STRUCTURES AND HEADWALLS OR CAST IN PLACE.

ALL CONSTRUCTION SHALL MEET OR EXCEED JONES COUNTY SPECIFICATIONS. DETENTION BASIN AND EROSION CONTROL MEASURES TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.

CONTRACTOR SHALL STAKE ALL BUILDING CORNERS FOR APPROVAL PRIOR TO POURING ANY FOOTINGS.

THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION BY THE ISSUING AUTHORITY.

SEDIMENT AND EROSION CONTROL MEASURES TO BE INSPECTED AND MAINTAINED DAILY.

DO NOT SCALE FROM DRAWINGS.

GEORGIA811 Utilities Protection Center, Inc.

Know what's **below.**
Call before you dig.

MOORE CIVIL
CONSULT>DESIGN>ENGINEER
ROBERT@MOORECIVIL.COM
706.224.1629

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE035680 ROBERT EUGENE MOORE

LEVEL II CERTIFIED
DESIGN PROFESSIONAL
GSWCC #0000064090
EXPIRATION: 05/30/2023

NOT RELEASED FOR CONSTRUCTION

24 HOUR CONTACT:
BEN HOLT
478-256-2380

CLIENT:
STROUD AND COMPANY
P.O. BOX 4044
MACON, GA 31208
478-743-5097

OWNER INFORMATION:
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478-743-5097

REVISIONS:

01/16/25	PRELIM LAYOUT
01/17/25	PRELIM LAYOUT
01/21/25	PRELIM LAYOUT
01/29/25	PRELIM GRADING
02/07/25	PRICING SET
04/02/25	1ST LDP
04/15/25	SITELAYOUT REVISED
07/01/25	SEPTIC ADDED

NATIONWIDE EXPANSION
GRISWOLDVILLE INDUSTRIAL
MACON, GA

SHEET TITLE:
COVER SHEET

SHEET NUMBER:
C.100

GEORGIA811
Utilities Protection Center, Inc.

Know what's **below.**
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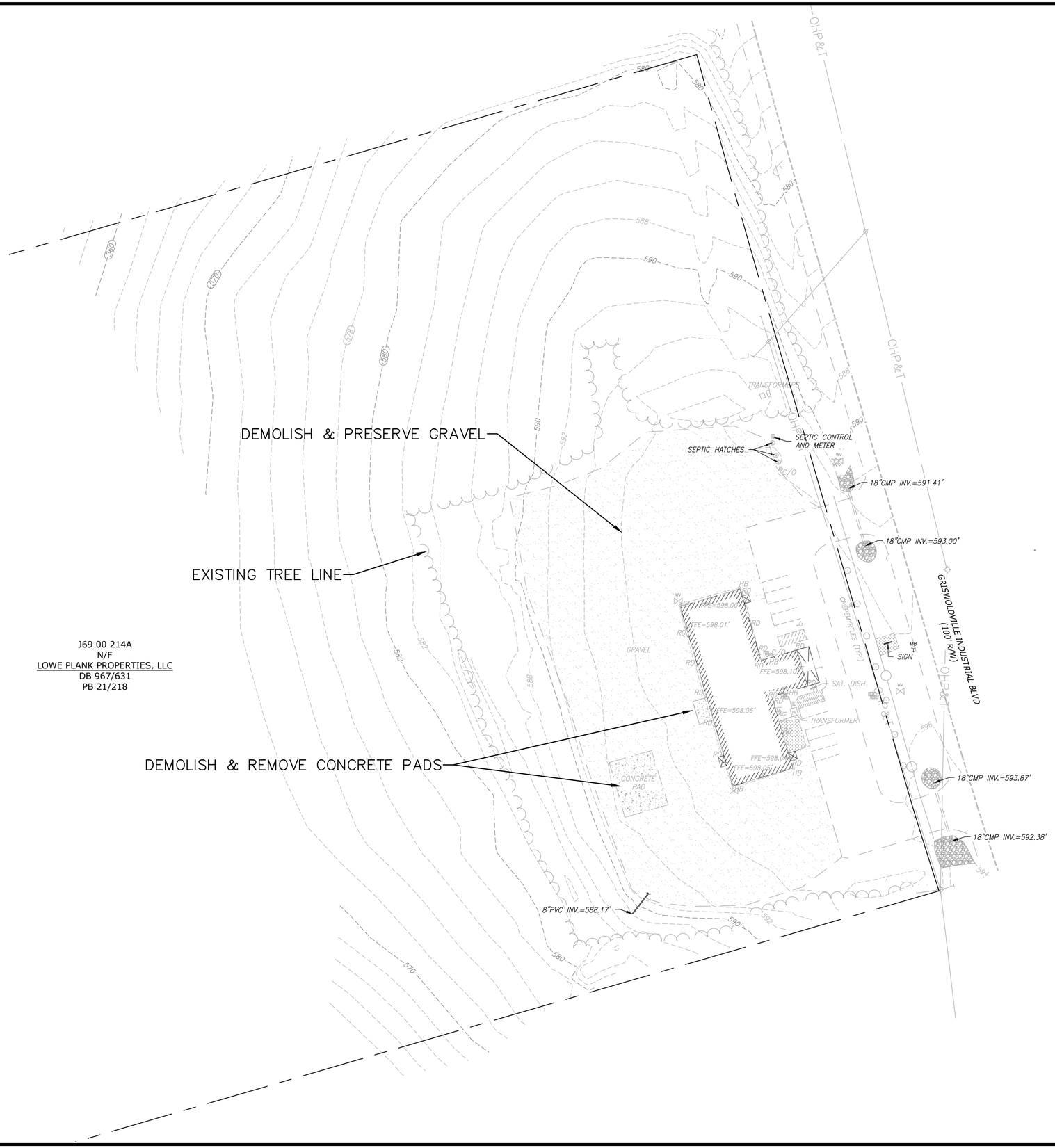

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

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04/15/25	SITELAYOUT REVISED
07/01/25	SEPTIC ADDED

NATIONWIDE EXPANSION
GRISWOLDVILLE INDUSTRIAL
MACON, GA

SHEET TITLE:
EXISTING CONDITIONS & DEMO PLAN

SHEET NUMBER:
C.110

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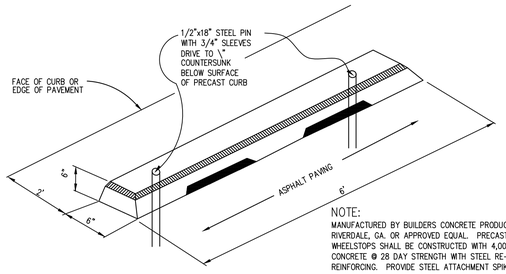
Utilities Protection Center, Inc.

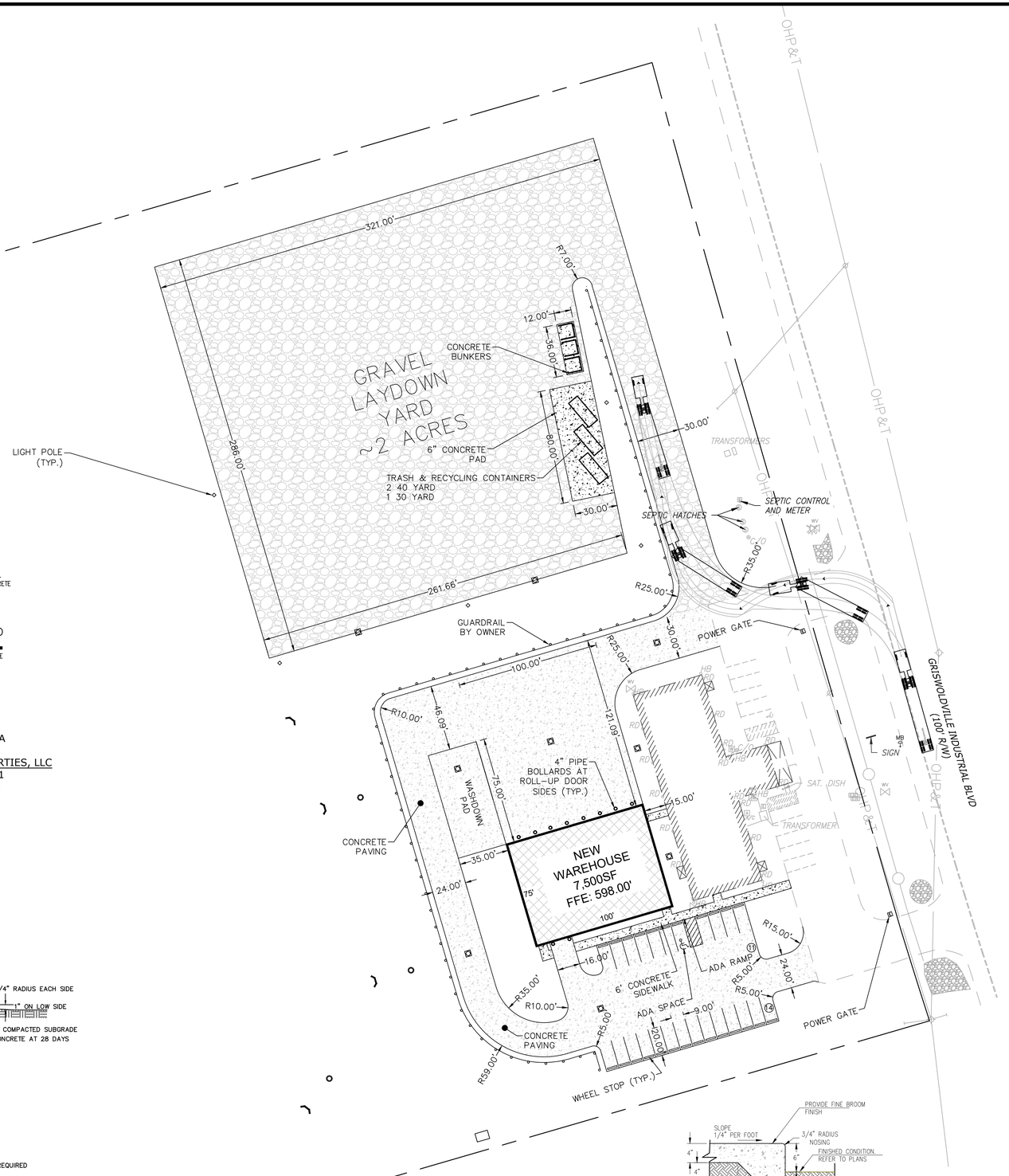
Know what's **below.**
Call before you dig.



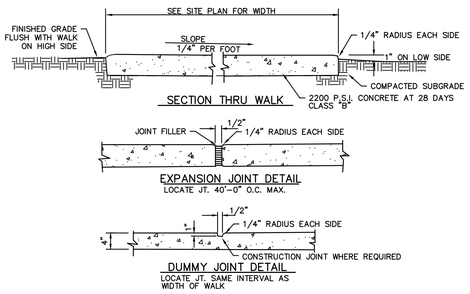
NOTE:
MANUFACTURED BY BUILDERS CONCRETE PRODUCTS, INC. RIVERDALE, GA. OR APPROVED EQUAL. PRECAST CONCRETE WHEELSTOPS SHALL BE CONSTRUCTED WITH 4,000 PSI CONCRETE @ 28 DAY STRENGTH WITH STEEL RE-BAR REINFORCING. PROVIDE STEEL ATTACHMENT SPIKES.

PRECAST CONCRETE WHEELSTOP

NOT TO SCALE

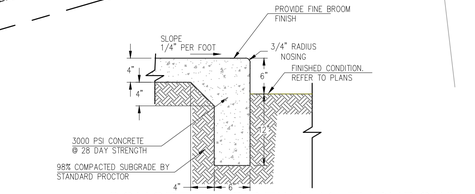


J69 00 214A
N/F
LOWE PLANK PROPERTIES, LLC
DB 967/631
PB 21/218



TYPICAL WALK DETAILS

N.T.S.



CONCRETE SIDEWALK TURNDOWN

NOT TO SCALE

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GRAPHIC SCALE

40 0 20 40 80 160

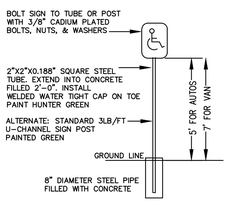
(IN FEET)
1 inch = 40 ft.

HATCHING LEGEND:

- BUILDING
- CONCRETE
- 6" GRAVEL LAYDOWN

CONCRETE PAVING DETAIL

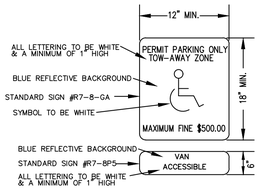
N.T.S.



1. ALL SIGNS TO BE 0.080" THICK ALUMINUM.
2. ALL SIGNS SHALL CONFORM WITH ALL CURRENT A.D.A., FEDERAL, STATE, AND LOCAL CODES & REGULATIONS.
3. PLACE "VAN ACCESSIBLE SIGN IN FRONT OF VAN ACCESSIBLE SPACES ONLY.

HANDICAP PARKING SIGN PLACEMENT DETAIL

N.T.S.



ADA PARKING SIGN DETAIL

N.T.S.

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GEORGIA REGISTERED No. PE035680 PROFESSIONAL ENGINEER ROBERT EUGENE MOORE

LEVEL II CERTIFIED
DESIGN PROFESSIONAL
GSWCC #0000064090
EXPIRATION: 05/30/2023

NOT RELEASED FOR CONSTRUCTION

24 HOUR CONTACT:
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478-256-2380

CLIENT:
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04/15/25	SITELAYOUT REVISED
07/01/25	SEPTIC ADDED

NATIONWIDE EXPANSION
GRISWOLDVILLE INDUSTRIAL
MACON, GA

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
C.200

GEORGIA811
Utilities Protection Center, Inc.

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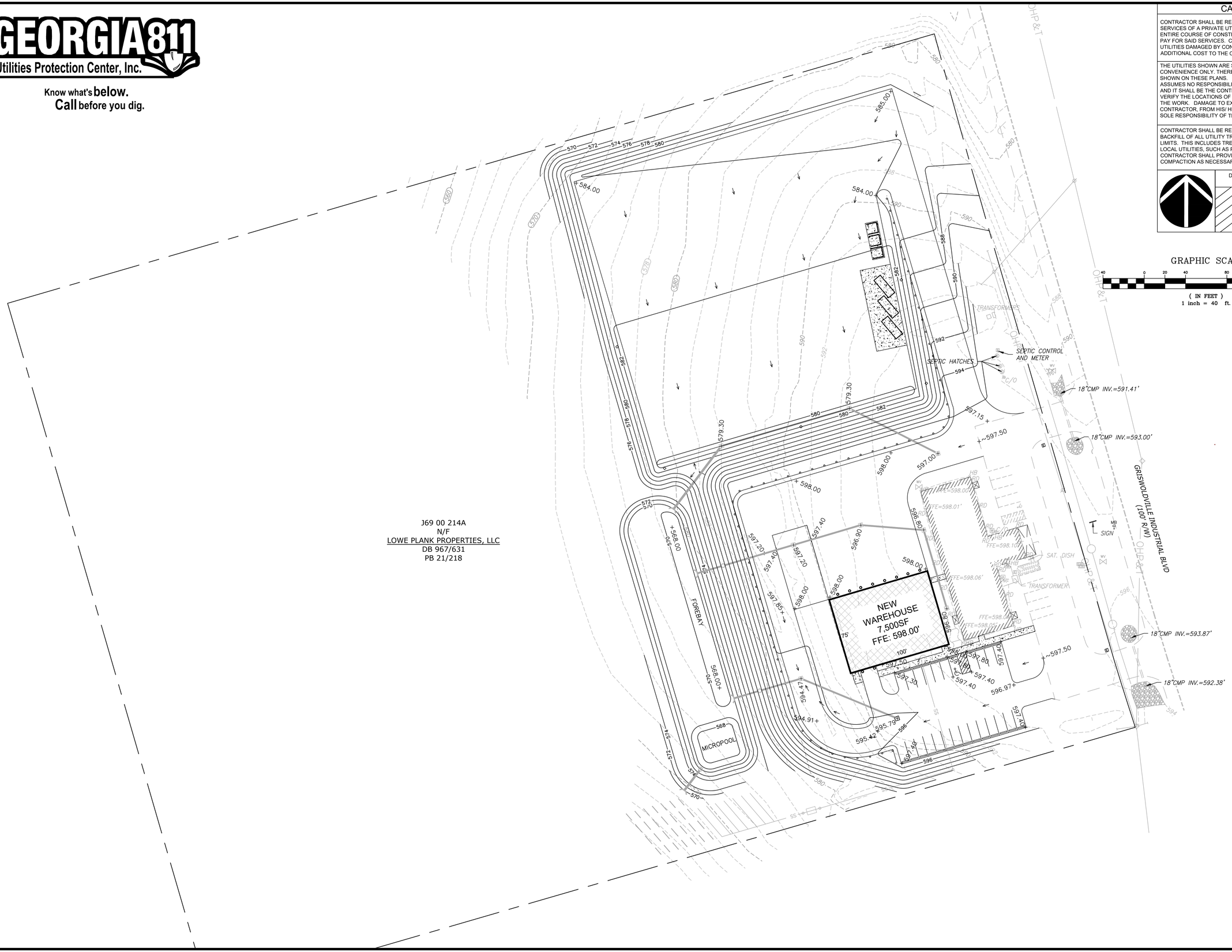

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GRAPHIC SCALE

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(IN FEET)
1 inch = 40 ft.

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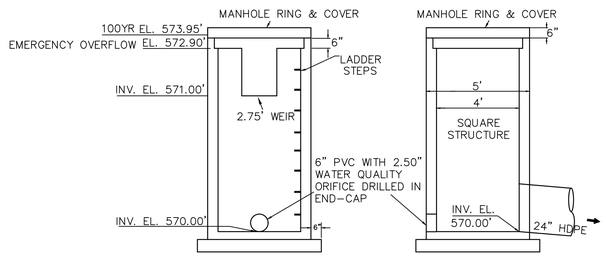
07/01/25	SEPTIC ADDED

NATIONWIDE EXPANSION
GRISWOLDVILLE INDUSTRIAL
MACON, GA

SHEET TITLE:
GRADING & DRAINAGE PLAN

SHEET NUMBER:
C.300

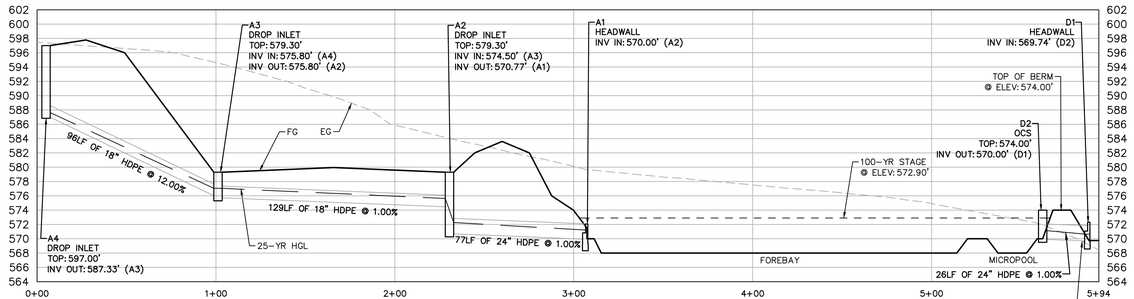


DETENTION POND CONTROL STRUCTURE

N.T.S.

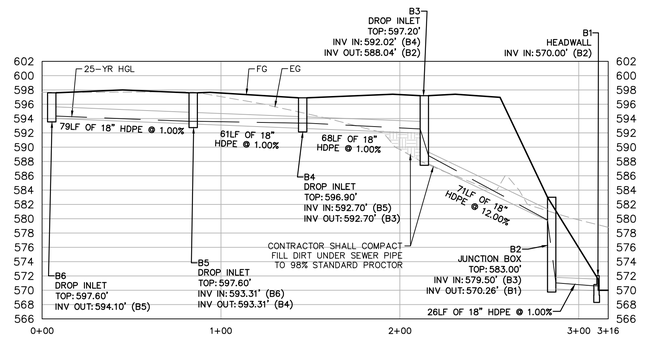
Line No.	Line ID	Drainage Area	Tc	i Inlet	Runoff Coeff	Incr Q	Total Runoff	Line Slope	Line Size	Line Type	Capacity Full	Vel Ave	HGL Up	HGL Dn
		(ac)	(min)	(in/hr)	(C)	(cfs)	(cfs)	(%)	(in)		(cfs)	(ft/s)	(ft)	(ft)
1	A2-A1	1.02	9.7	9.64	0.88	8.65	17.14	1.00	24	Cir	24.53	7.63	572.26	571.23
2	A3-A2	1.73	9.4	9.64	0.75	12.51	10.48	1.00	18	Cir	11.40	7.01	577.04	575.63
3	A4-A3	0.09	5.0	9.64	0.75	0.65	0.65	12.00	18	Cir	39.40	1.51	587.63 j	577.04
4	B2-B1	0.00	12.7	0.00	0.95	0.00	4.12	1.00	18	Cir	11.37	5.19	571.04	570.62
5	B3-B2	0.17	12.3	9.64	0.95	1.56	4.18	12.00	18	Cir	39.40	9.48	588.82	579.83
6	B4-B3	0.37	11.8	9.64	0.95	3.39	3.13	1.00	18	Cir	11.37	4.78	593.37	592.56
7	B5-B4	0.07	9.9	9.64	0.71	0.48	0.75	1.00	18	Cir	11.36	1.83	593.63 j	593.37
8	B6-B5	0.07	5.0	9.64	0.71	0.48	0.48	1.00	18	Cir	11.37	2.06	594.36 j	593.63
9	C2-C1	0.00	6.2	0.00	0.95	0.00	5.10	1.00	18	Cir	11.39	5.53	571.13	570.70
10	C3-C2	0.32	5.9	9.64	0.73	2.25	5.16	12.00	18	Cir	39.40	10.12	585.39	579.87
11	C4-C3	0.35	5.0	9.64	0.95	3.20	3.20	1.00	18	Cir	11.39	4.82	592.69	591.54
12	D2-D1	0.00	5.0	0.00	0.95	9.98	0.00	1.00	24	Cir	24.55	6.42	571.13	570.63

PIPE CHART



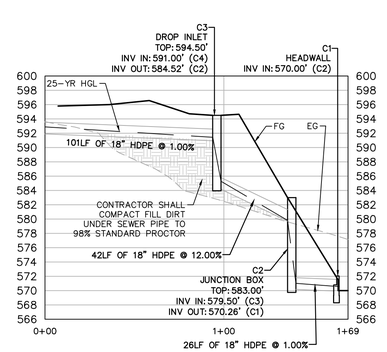
STORM PIPE PROFILES

(A + D PIPES)
SCALE: H: 1"=40'
V: 1"=10'



STORM PIPE PROFILES

(B PIPES)
SCALE: H: 1"=40'
V: 1"=10'



STORM PIPE PROFILES

(C PIPES)
SCALE: H: 1"=40'
V: 1"=10'

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GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

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Utilities Protection Center, Inc.

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Call before you dig.

MOORE CIVIL
CONSULT>DESIGN>ENGINEER
ROBERT@MOORECIVIL.COM
706.224.1629

GEORGIA REGISTERED PROFESSIONAL No. PE035680 ROBERT EUGENE MOORE

LEVEL II CERTIFIED DESIGN PROFESSIONAL
GSWCC #0000064090
EXPIRATION: 05/30/2023

NOT RELEASED FOR CONSTRUCTION

24 HOUR CONTACT:
BEN HOLT
478-256-2380

CLIENT:
STROUD AND COMPANY
P.O. BOX 4044
MACON, GA 31208
478-743-5097

OWNER INFORMATION:
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REVISIONS:

01/16/25	PRELIM LAYOUT
01/17/25	PRELIM LAYOUT
01/21/25	PRELIM LAYOUT
01/29/25	PRELIM GRADING
02/07/25	PRICING SET
04/02/25	1ST LDP
04/15/25	SITELAYOUT REVISED
07/01/25	SEPTIC ADDED

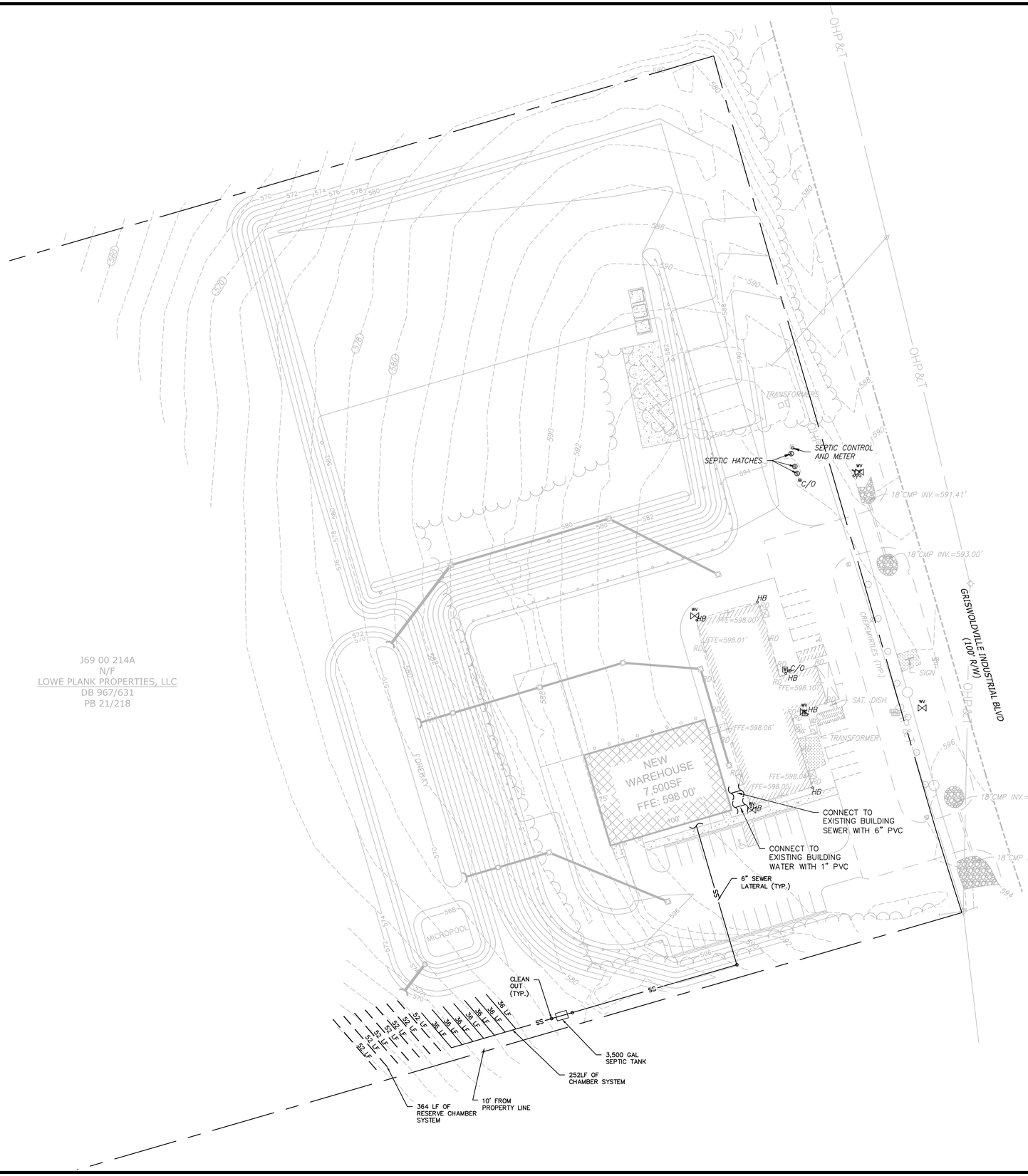
NATIONWIDE EXPANSION
GRISWOLDVILLE INDUSTRIAL
MACON, GA

SHEET TITLE:
STORM PIPE PLAN & PROFILES

SHEET NUMBER:
C.400

GEORGIA811
Utilities Protection Center, Inc.

Know what's **below.**
Call before you dig.



J69 00 214A
N/F
LOWE PLANK PROPERTIES, LLC
DB 967/631
PB 21/218

CAUTION

CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE SERVICES OF A PRIVATE UTILITY LOCATOR FIRM DURING THE ENTIRE COURSE OF CONSTRUCTION. CONTRACTOR SHALL PAY FOR SAID SERVICES. CONTRACTOR SHALL REPAIR ALL UTILITIES DAMAGED BY CONSTRUCTION ACTIVITIES, AT NO ADDITIONAL COST TO THE OWNER/DEVELOPER.

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DO NOT DUPLICATE DRAWINGS WITHOUT PERMISSION

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

PRIMARY SEPTIC SYSTEM DESIGN

1. FLOW DESIGN/SITE SPECIFICATIONS
   SOIL TYPE: HARD LABOR 1
   PERC RATE, t: 80 IN/MIN
   COMMERCIAL
   2. WAREHOUSE - 15 WORKERS @ 40/PERSON = 600 GPD

   TOTAL = 600 GPD

   √(t)/5 = √(80)/5 = 1.79 S.F. = 1 GPD
   600 g x 1.79 = 1074.00 S.F. (Total)
   1074.00 s.f. / 3' trench width = 358.00 L.F.Total (conventional) trench req'd
   358.00 L.F. X 30% reduction = 107.4 L.F. reduction with ARC 36 SYSTEM
   358.00 F. - 30% reduction = 251 L.F. ARC 36 SYSTEM

3. ABSORPTION FIELD DESIGN AREA:
   MIN. TRENCH SPACING: 8 FT O.C. X 36" WIDE
4. SEPTIC SYSTEM: ARC 36 SYSTEM
5. SEE SEPTIC SYSTEM PLAN (THIS SHEET) FOR ABSORPTION FIELD
6. MINIMUM PRIMARY TREATMENT TANK:
   1- 1,500 GALLON TANK

7. PROPOSED FINISHED FLOOR ELEVATION: VARIES (REFER TO GRADING PLAN)
   PROPOSED STUB OUT ELEVATION: 2 FEET COVER BELOW FFE
8. REFERENCE: GDHR MANUAL FOR ON-SITE SEWAGE MANAGEMENT SYSTEMS

9. SOILS DATA PER:
   APPLIED ENVIRONMENTAL SCIENCES, INC.
   90-F GLENDA TRACE #327
   NEWMAN, GA 30265
   (678) 262-4020

(RESERVE SYSTEM)

SOIL TYPE: HARD LABOR 1
PERC RATE, t: 80 IN/MIN

√(t)/5 = √(80)/5 = 1.79 S.F. = 1 GPD
600 G X 1.79 = 1074.00 S.F.
1074.00 s.f. / 3' trench width = 358 L.F.Total (conventional) trench req'd

ALL COMPONENTS SHALL BE RATED FOR COMMERCIAL USE

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01/21/25	PRELIM LAYOUT
01/29/25	PRELIM GRADING
02/07/25	PRICING SET
04/02/25	1ST LDP
04/15/25	SITELAYOUT REVISED
07/01/25	SEPTIC ADDED

NATIONWIDE EXPANSION
GRISWOLDVILLE INDUSTRIAL
MACON, GA

SHEET TITLE:
UTILITY PLAN

SHEET NUMBER:
C.500

GEORGIA811
Utilities Protection Center, Inc.

Know what's **below.**
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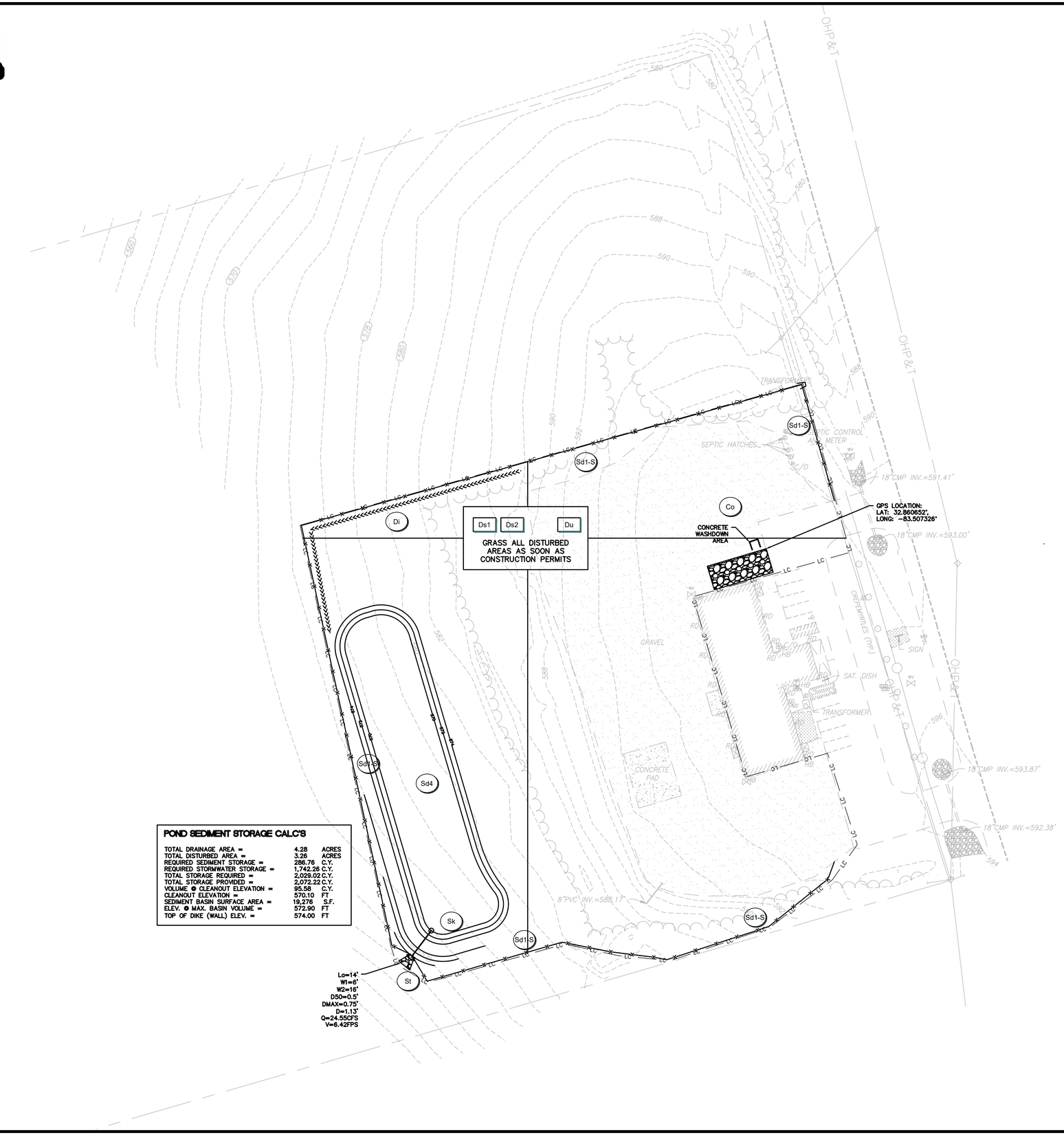

POND SEDIMENT STORAGE CALC'S

TOTAL DRAINAGE AREA =	4.28	ACRES
TOTAL DISTURBED AREA =	3.26	ACRES
REQUIRED SEDIMENT STORAGE =	286.76	C.Y.
REQUIRED STORMWATER STORAGE =	1,742.26	C.Y.
TOTAL STORAGE REQUIRED =	2,029.02	C.Y.
TOTAL STORAGE PROVIDED =	2,072.22	C.Y.
VOLUME @ CLEANOUT ELEVATION =	95.58	C.Y.
CLEANOUT ELEVATION =	570.10	FT
SEDIMENT BASIN SURFACE AREA =	19,276	S.F.
ELEV. @ MAX. BASIN VOLUME =	572.90	FT
TOP OF DIKE (WALL) ELEV. =	574.00	FT

CAUTION

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GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

35 ESPC PHASE I NARRATIVE

DURING THE FIRST PHASE OF EROSION CONTROL INSTALL ALL PERIMETER BMPs SHOWN ON THIS PLAN - CONSTRUCTION ENTRANCE, SILT FENCE, AND A TEMPORARY SEDIMENT TRAP. THE SILT FENCE AND TEMPORARY SEDIMENT TRAP WILL BE UTILIZED FOR SILT STORAGE.

THERE ARE 2.05 ACRES OF DISTURBANCE IN THIS PHASE BUT THERE IS AN UPSTREAM DRAINAGE BASIN WITH AN AREA OF 8.72 ACRES.

SEDIMENT STORAGE REQUIRED:
8.72 ACRES X 67 CY/ACRE = 584.24 CY

TEMPORARY SEDIMENT TRAP: 4,371.11 CY
1,690LF OF SILT FENCE:
1,690LF X 1.25FT X 2FT = 156.48CY
TOTAL SEDIMENT STORAGE PROVIDED IN PHASE 1: 4,527.59 CY

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LEVEL II CERTIFIED
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GSWCC #0000064090
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01/17/25	PRELIM LAYOUT
01/21/25	PRELIM LAYOUT
01/29/25	PRELIM GRADING
02/07/25	PRICING SET
04/02/25	1ST LDP
04/15/25	SITELAYOUT REVISED
07/01/25	SEPTIC ADDED

NATIONWIDE EXPANSION
GRISWOLDVILLE INDUSTRIAL
MACON, GA

SHEET TITLE:
EROSION CONTROL PHASE I

SHEET NUMBER:
C.610

GEORGIA811
Utilities Protection Center, Inc.

Know what's **below.**
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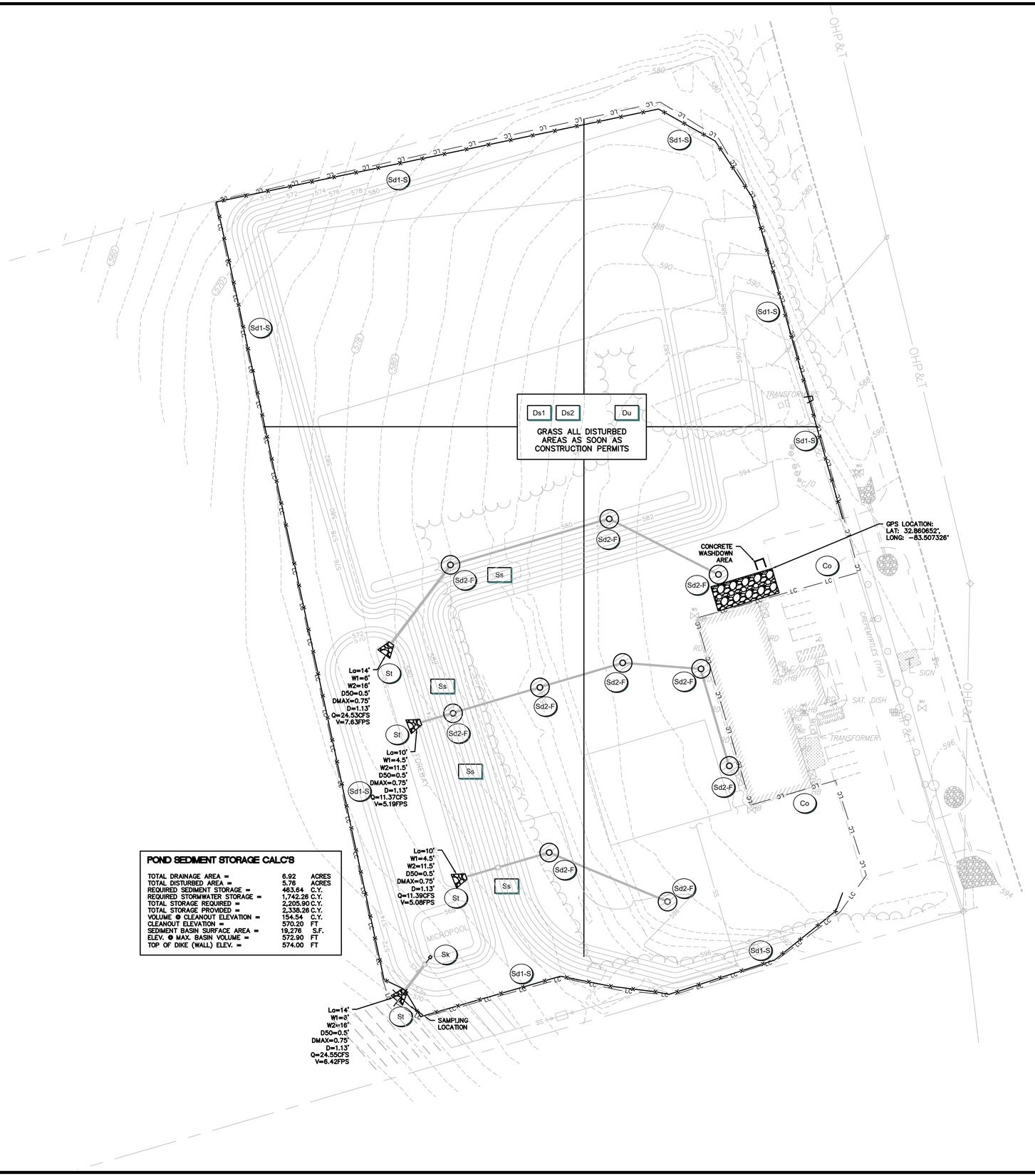

POND SEDIMENT STORAGE CALC'S

TOTAL DRAINAGE AREA =	6.92	ACRES
TOTAL DISTURBED AREA =	5.76	ACRES
REQUIRED SEDIMENT STORAGE =	463.64	C.Y.
REQUIRED STORMWATER STORAGE =	1,742.26	C.Y.
TOTAL STORAGE REQUIRED =	2,205.90	C.Y.
TOTAL STORAGE PROVIDED =	2,338.28	C.Y.
VOLUME @ CLEANOUT ELEVATION =	154.54	C.Y.
CLEANOUT ELEVATION =	570.20	FT
SEDIMENT BASIN SURFACE AREA =	19,276	S.F.
ELEV. @ MAX. BASIN VOLUME =	572.90	FT
TOP OF DIKE (WALL) ELEV. =	574.00	FT

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GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

35 ESPC PHASE II NARRATIVE

DURING THE SECOND PHASE OF EROSION CONTROL MAINTAIN ALL PERIMETER BMPs SHOWN ON THIS PLAN - CONSTRUCTION ENTRANCE, SILT FENCE, ETC. GRADING, STORM & UTILITY INSTALLATION WILL OCCUR IN THIS PHASE. SEDIMENT STORAGE SHALL BE ACHIEVED BY SILT FENCE AND SEDIMENT STORAGE IN THE DETENTION POND WITH A SKIMMER. GRADING AND PIPE INSTALLATION SHALL OCCUR DURING THIS PHASE.

THERE ARE 5.89 ACRES OF DISTURBANCE IN THIS PHASE.

SEDIMENT STORAGE REQUIRED:
5.89 ACRES X 67 CY/ACRE = 394.63 CY

DETENTION POND SILT STORAGE = 724.54 CY

2,017LF OF SILT FENCE:
2,017LF X 1.25FT X 2FT = 186.76CY

TOTAL SEDIMENT STORAGE PROVIDED IN PHASE 1: 911.30 CY

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LEVEL II CERTIFIED
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GSWCC #0000064090
EXPIRATION: 05/30/2023

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01/17/25	PRELIM LAYOUT
01/21/25	PRELIM LAYOUT
01/29/25	PRELIM GRADING
02/07/25	PRICING SET
04/02/25	1ST LDP
04/15/25	SITELAYOUT REVISED
07/01/25	SEPTIC ADDED

NATIONWIDE EXPANSION
GRISWOLDVILLE INDUSTRIAL
MACON, GA

SHEET TITLE:
EROSION CONTROL PHASE II

SHEET NUMBER:
C.620

GEORGIA811
Utilities Protection Center, Inc.

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GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

35 ESPC PHASE III NARRATIVE

DURING THE THIRD PHASE OF EROSION CONTROL MAINTAIN ALL BMPs CURRENTLY IN PLACE PER THIS PLAN. CONCRETE AND PAVEMENT SHALL BE POURED DURING THIS PHASE AS THE SITE APPROACHES FINAL GRADE. FINE GRADING SHALL OCCUR DURING THIS PHASE. TEMPORARY BMPs CAN BE REMOVED ONCE FINAL STABILIZATION IS REACHED FOR THE SITE.

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01/17/25	PRELIM LAYOUT
01/21/25	PRELIM LAYOUT
01/29/25	PRELIM GRADING
02/07/25	PRICING SET
04/02/25	1ST LDP
04/15/25	SITELAYOUT REVISED
07/01/25	SEPTIC ADDED

NATIONWIDE EXPANSION
GRISWOLDVILLE INDUSTRIAL
MACON, GA

SHEET TITLE:
EROSION CONTROL PHASE III

SHEET NUMBER:
C.630

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

SWCD: _____

Project Name: NATIONWIDE EXPANSION Address: GRISWOLDVILLE INDUSTRIAL PKWY

City/County: JONES COUNTY Date on Plans: 1/15/2025

Name & Email of person filling out checklist: ROBERT MOORE robert@moorecivil.com

TO BE SHOWN ON ES&PC PLAN

Plan Page #	Included Y/N	
C700	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.)
C610	N/A	3. Limit 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 a 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)
C700	Y	4. The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
C100	Y	5. Provide the name, address, email address and phone number of primary permittee.
C700	Y	6. Note total and disturbed acreage of the project or phase under construction.
C610	Y	7. Provide the GPS 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.
C100	Y	9. Descriptions of the nature of construction activity and existing site conditions.
C700	Y	10. Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
C700	Y	11. Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
C700	Y	12. Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on **Part IV page 19** of the the permit.
N/A	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.*
C700	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."** *
C700	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."**
C700	N/A	16. Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
C700	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."** *
C700	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."***
C700	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."**
C700	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."**
C700	Y	21. Clearly note the statement that **"Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."**
C700	N	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. *
C700	Y	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. *
C700	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. *
C700	Y	25. Provide BMPs for the remediation of all petroleum spills and leaks.
C700	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. *
C700	Y	27. Description of practices to provide cover for building materials and building products on site.*
C710	Y	28. Description of the practices that will be used to reduce the pollutants in storm water discharges.*
C710	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).
C710	Y	30. Provide complete requirements of Inspections and record keeping by the primary permittee. *
C710	Y	31. Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
C710	Y	32. Provide complete details for Retention of Records as per Part IV.F. of the permit. *
C710	Y	33. Description of analytical methods used to collect and analyze the samples from each location. *
C710	Y	34. Appendix B rationale for NTU values at all outfall sampling points where applicable. *
C710	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. *
C610-C630	Y	36. A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial 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.
C610-C630	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 = 100 ft or larger scale	Flat 0-2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2, 5 or 10

C720	Y	39. Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
C720	N/A	40. Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
C720	N/A	41. Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State Waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
C720	Y	42. Delineation of all State Waters and wetlands located on and within 200 feet of the project site.
C720	Y	43. Delineation and acreage of contributing drainage basins on the project site.
C720	Y	44. Provide hydrology study and maps of drainage basins for both the pre- and post- developed conditions. *
C720	Y	45. An 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.
C720	Y	46. Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate at all storm water discharge points.
C720	Y	47. Soil series for the project site and their delineation.
C720	Y	48. The limits of disturbance for each phase of construction.
C720	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.
C610-C630	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.
C740	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.
C730	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, 2025

2
GSWCC
ROBERT E. MOORE, JR
0000064090
LEVEL II CERTIFIED DESIGN PROFESSIONAL

4
24-HOUR CONTACT: BEN HOLT
PHONE NUMBER: 478-256-2380

5 OWNER/PRIMARY PERMITTEE:
STROUD AND COMPANY
P.O. BOX 4044
MACON, GA 31208
478-743-5097

6
FINAL DISTURBANCE AREA = ***±5.89***AC.

TOTAL SITE AREA- ***±15.00*** AC.

8 SITE DESCRIPTION AND LOCATION:
LOCATION: JONES COUNTY, GEORGIA

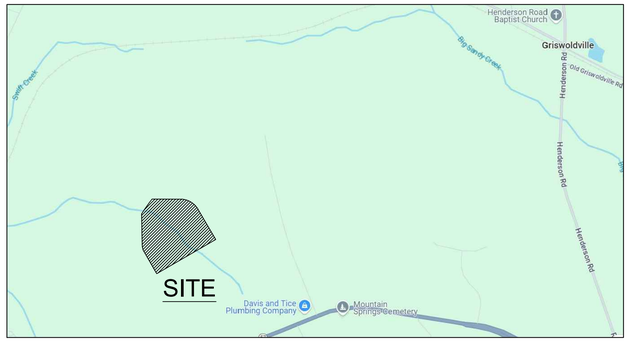
9 CRITICAL AREAS:
THIS PROJECT INVOLVES THE CONSTRUCTION OF A 18,000 S.F. SINGLE STORY MEDICAL OFFICE BUILDING, ASSOCIATED PARKING, AND DRIVEWAYS IN MACON-BIBB COUNTY, GEORGIA OFF HWY 75. THE EXISTING SITE IS VACANT WITH MOSTLY GRASS WITH HEAVY TREE COVER IN THE BACK. THIS SITE DRAINS VIA SHEET FLOW TO THE NORTHERN PROPERTY LINE WHERE RUNOFF EXITS THE SITE AND IS THEN COLLECTED IN BEAVERDAM CREEK AND THEN SOON TO THE OCMULGEE RIVER. STORM WATER RUNOFF FOR THE PROPOSED SITE IS COLLECTED IN THE PROPOSED STORM DRAIN SYSTEM AND ROUTED TO A PROPOSED DETENTION POND WHERE PEAK FLOW RUNOFF IS ATTENUATED AND WATER QUALITY TREATMENT IS PROVIDED.

SEE DETAILS SHEET C-600

10 *VICINITY MAP*
N.T.S.

11 RECEIVING WATERS
THE SAMPLING LOCATION FROM THE SITE DRAINS TO THE NORTH TO BEAVERDAM CREEK AND EVENTUALLY DISCHARGES INTO OCMULGEE RIVER.

STATE WATERS
THERE ARE NOT STATE WATERS LOCATED WITHIN 200 FEET OF THE PROJECT SITE.



LOCATION MAP (N.T.S.)
The project will be developed and constructed in one phase

12
" I certify under penalty of law that this Plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my supervision"

13
"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the Georgia Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water 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. GAR 100001."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verifies perennial and intermittent streams and other water bodies, or (b) where any specific identified all perennial and intermittent streams and other water body is not proposed to be sampled, I have determined in my professional judgment, utilizing the factors required in the General NPDES Permit No. GAR 100001, that the increase in the turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water."

Robert Eugene Moore Jr 1/15/2025
SIGNATURE OF PLAN PREPARER DATE

14 7-DAY VISIT STATEMENT

"For stand alone projects that begin construction activity after the effective date of this permit, the Primary Permittee must retain the design professional who prepared the Erosion, Sedimentation and Pollution Control Plan, or an alternative design professional approved by EPD in writing, to inspect and certify the installation of the initial sediment storage requirements and perimeter control BMPs which the design professional designed within seven (7) days after installation. The design professional shall determine if these BMPs have been installed and are being maintained as designed. The design professional shall report the results of the inspection to the Primary Permittee within seven (7) days and the permittee must correct all deficiencies within two (2) business days of receipt of the inspection report from the design professional prior to commencing with construction activities as required by Part III.D.2 of this Permit unless weather related site conditions are such that additional time is required."

15
Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits.

16
No buffer encroachments are part of this project.

NPDES NOTES

17
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."

18
"Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit."*

19
"The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."

20
"Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment

21
source."

"Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."

22
No construction activities will discharge storm water into an Impaired Stream

23
Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment , therefore there will be no need for an If a TMDL Implementation Plan for sediment

24 *CONCRETE WASHOUT*
IT IS PROHIBITED TO WASHOUT THE DRUM OF CONCRETE TRUCK ON SITE. SEE DETAILS SHEET FOR BEST MANAGEMENT PRACTICES FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND THE REAR OF THE VEHICLE ONLY.

25 *A. Best management practices for prevention of petroleum spills:*
- All onsite vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage.
- Petroleum products will be stored in tightly sealed containers that are clearly labeled.
- Any petroleum to be stored in tanks will have be surrounded by an earthen berm as a secondary protective measure.
- Any Asphalt substances used onsite will be applied according to the manufacture's recommendations.
- Contractors and subcontractors are responsible for inspecting their equipment and providing necessary maintenance to eliminate petroleum spills.

BMPs for the remediation of all petroleum spills and leaks.

- Local, state and manufacturer's recommended methods for spill cleanup will be clearly posted and procedures will be made available to site personnel.
- Materials and equipment necessary for spill cleanup will be kept in the material storage areas. typical materials and equipment includes, but is not limited to brooms, dustpans, mops, rags, gloves, goggles, cat litter, sand, sawdust, and properly labeled plastic and metal waste containers.
- Spill prevention practices and procedures will be reviewed after a spill and adjusted as necessary to prevent future spills.
- All spills will be cleaned up immediately upon discovery. All spills will be reported as required by local, state, and federal regulations.
- The contractor shall notify the licensed professional who prepared this plan if more than 1,320 gallons of petroleum is stored onsite (this includes capacities for equipment) or if any one piece of equipment has a countermeasures plan prepared by that licensed professional.
- For spills that impact surface water (leave a sheen on surface water), the National Response Center (NRC) will be contacted within 24 hours at 1-800-424-8802.
- For spills of an unknown amount, the National Response 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 Environmental Protection Division (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.

26 *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.*
After site construction, storm water runoff from this development will be collected in an onsite storm pipe system where it will be routed to an on-site micropool extended detention pond that is designed to handle this site. This permanent BMP along with erosion control measures included in this plan will provide pollutant control control for this site.

27 *DESCRIPTION OF PRACTICES TO PROVIDE COVER FOR BUILDING MATERIALS AND BUILDING PRODUCTS ON SITE.*
During site construction, building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste will be COVERED WITH PLASTIC SHEETING to minimize exposure to precipitation and to stormwater.

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GEORGIA REGISTERED PROFESSIONAL No. PE035680 PROFESSIONAL ROBERT EUGENE MOORE

LEVEL II CERTIFIED DESIGN PROFESSIONAL
GSWCC #0000064090
EXPIRATION: 05/30/2023

NOT RELEASED FOR CONSTRUCTION

24 HOUR CONTACT:
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478-743-5097

OWNER INFORMATION:
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REVISIONS:

01/16/25	PRELIM LAYOUT
01/17/25	PRELIM LAYOUT
01/21/25	PRELIM LAYOUT
01/29/25	PRELIM GRADING
02/07/25	PRICING SET
04/02/25	1ST LDP
04/15/25	SITELAYOUT REVISED
07/01/25	SEPTIC ADDED

NATIONWIDE EXPANSION
GRISWOLDVILLE INDUSTRIAL
MACON, GA

SHEET TITLE:
NPDES NOTES

SHEET NUMBER:
C.700

27 28 ***DESCRIPTION OF THE PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES.***

During Site construction all storm water will be routed through the BMP's shown on the phased erosion control plans to reduce pollutant (Suspended Solids and sediment) in the storm water discharge from the site provided all the general measures are taken into account.
- Prior to land-disturbing activities, the contractor shall schedule a pre-construction meeting with the area erosion control inspector.
- Any disturbed area left idle for a period greater than 14 days shall be stabilized with temporary seeding; disturbed areas idle 30 days shall be stabilized with permanent vegetation.
- Erosion and sediment control measures shall be inspected at least weekly, after each rain, and repaired as necessary.
- Additional erosion and sediment control measures shall be installed if determined necessary by on-site inspection.
- Silt fence shall meet the requirements of section 171 - type C temporary silt fence, of the Georgia department of transportation standard specifications (qualified products list #36) and be wire reinforced.
-A haul route permit is required when more than 500 cubic yards of hauled volume to or from the site. plans must include a statement indicating whether or not a haul route permit is required.

All pollutants from waste disposal practices, soil additives, remediation of spills and leaks of petroleum products, concrete truck washout, etc., should any of these occur, will be controlled by the implementation of appropriate best management practices. The site will be in compliance with all applicable state and local waste disposal, sanitary sewer or septic system regulations.

PRODUCT SPECIFIC PRACTICES:

PETROLEUM BASED PRODUCTS - Containers for products such as fuels, lubricants and tars will be inspected daily for leaks and spills. this includes onsite vehicle and machinery daily inspections and regular preventive maintenance of such equipment. Equipment maintenance areas will be located away from state water, natural drains and storm water drainage inlets. In addition, temporary fueling tanks shall have a secondary containment liner to prevent/minimize site contamination. discharge of oils, fuels and lubricants is prohibited. proper disposal methods will include collection in a suitable container and disposal as required by local and state regulations.

PAINTS/FINISHES/SOLVENTS - All products will be stored in tightly sealed original containers when not in use. Excess products will not be discharged to the stormwater collection system. Excess product materials used with these products and product containers will be disposed of according to manufacturer's specifications and recommendations.

CONCRETE TRUCK WASHING - No concrete trucks will be allowed to wash or discharge surplus concrete or drum wash water onsite.

FERTILIZER/HERBICIDES - These products will be applied at rates that do not exceed the manufacturer's specifications or above the guidelines set forth in the crop establishment or in the GSWCC manual for erosion and sediment control in Georgia. any storage of these materials will be under roof in sealed containers.

BUILDING MATERIALS - No building or construction materials will be buried or disposed of onsite. All such material will be disposed of in proper waste disposal procedures.

30 Provide complete requirements of inspections and record keeping by the primary permittee.

PERMITTEE REQUIREMENTS.

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 State of Georgia Page 32 of 46 Department of Natural Resources Permit No. GAR100001 Environmental Protection Division 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.

29

GENERAL CONSTRUCTION SCHEDULE

		BEGIN CONSTRUCTION	MONTH 1 → MONTH 12
PHASE I (INITIAL)	1	INSTALL SEDIMENT CONTROL DEVICES	
	2	CLEARING, DEMO AND GRADING	
	3	TEMPORARY GRASSING	
PHASE II (INTER.)	4	MAINTAIN EROSION CONTROL DEVICES	
	5	GRADING	
	6	ASPHALT – BUILDING	
PHASE III (FINAL)	7	FINAL AND PERMANENT GRASSING	
	8	CLEAN UP	

31 33 Provide complete requirements of sampling frequency and reporting of sampling results.

Sampling Requirements.

This permit requires the monitoring of nephelometric turbidity in receiving water(s) or outfalls in accordance with this permit. The following procedures constitute EPD's guidelines for sampling turbidity for this site

Sampling Requirements shall include the following:

Determine sampling locations:
(1) A USGS topographic map was used to locate all perennial and intermittent streams and other water bodies as shown on a USGS topographic map as well as all the receiving water from the site
(2) A USGS topographic map was used to determine the sampling locations.
(3) 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.
(4)

SAMPLE POINT UPSTREAM
LOCATION: SOUTHWESTERN SIDE OF SITE
Size of construction area = 5.65 AC.
Total drainage basin to sample point = 4.80 AC.
Disturbed area within basin = 4.80 AC.
Size of Surface Water Drainage area = 4.80 AC.
Receiving Stream : CAULEY LAKE

(5). Permittee must provide 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
(6) Sample containers should be labeled prior to collecting the samples, and should be well mixed before transferring to a secondary container, all sample bottles shall be 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.
(7). 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. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are not required to be cooled.
(8). 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.

32 Provide complete details for retention of records as per Part IV.F. of the permit.

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. Each secondary 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 or the applicable portion of the Erosion, Sedimentation and Pollution Control Plan for their activities at the construction site required by the permit.
c. A copy of all inspection reports generated in accordance with Part IV.D.4.b. of this permit;
d. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit

3. Each tertiary 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.

4. 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 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.

34 Appendix B rationale for NTU values at all outfall sampling points where applicable.

APPENDIX B
NEPHELOMETRIC TRUBIDITY UNIT (NTU) TABLES
WARM WATER (SUPPORTING WARM WATER FISHERIES)

SURFACE WATER DRAINAGE AREA, SQUARE MILES

Site Size, acres	0-4.99	5-9.9	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
1.00-10	(75)	150	200	400	750	750	750	750
10.01-25	50	100	100	200	300	500	750	750
25.01-50	50	50	100	100	200	300	750	750
50.01-100	50	50	50	100	100	150	300	600
100.01+	50	50	50	50	50	100	200	100

31

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 storm water discharge to a monitored receiving water and/or from a monitored outfall location within forty-five (45) minutes or as soon as possible.

(2) However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.

(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 storm water 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 storm water 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 at 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 dete3rmine 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 occuring 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.

Reporting:

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.

35 Delineate all sampling locations if applicable, perennial and intermittent streams and other water bodies into which storm water is discharged. See sheet C6.10, C6.20, and C6.30.

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REVISIONS:

01/16/25	PRELIM LAYOUT
01/17/25	PRELIM LAYOUT
01/21/25	PRELIM LAYOUT
01/29/25	PRELIM GRADING
02/07/25	PRICING SET
04/02/25	1ST LDP
04/15/25	SITELAYOUT REVISED
07/01/25	SEPTIC ADDED

NATIONWIDE EXPANSION
GRISWOLDVILLE INDUSTRIAL
MACON, GA

SHEET TITLE:
NPDES NOTES

SHEET NUMBER:
C.710

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

N/A for this site, however if any BMPs have proven not to function properly and the need for an alternative BMP is arisen, the following procedures documented below should be followed by the Design Professional

Use of alternative BMPs whose performance has been documented to be equivalent or superior to conventional BMPs as certified by a Design Professional may be allowed (unless disapproved by EPD or the Georgia soil and Water Conservation Commission).

Required documentation for alternative BMPs:

1. One page summary detailing why the alternative BMP is equivalent or superior to the conventional BMPs found in the "Manual for Erosion and Sedimentation Control in Georgia" (manual).

2. Documented side by side testing (alternative BMP vs. conventional BMP) using the appropriate design requirements and specifications contained in the Manual.

3. Proof that the alternative BMP was previously installed and worked under conditions comparable to the environmental conditions of the proposed site. This can be documented with photographs.

4. All specifications including the design requirements and the procedures for proper installation and maintenance.

All forms of documentation must be signed and certified by the Design Professional who is preparing the ES&PC Plan and must include the Design Professional's seal and GSWCC design Professional certification.

40 Use of alternative BMPs for application to the Equivalent BMP List, Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition.

N/A for this site, however for a BMP to be considered for inclusion on the Equivalent BMP List, the Design Professional must compete the current process for Alternative BMPs as otulienD by GSWCC Guidnace on at least theree completed projects where EPD's Notice of Termination Form has been filed.

The following steps are required

1. Provide pre-notice to EPD and GSWCC of the intent to apply for an Alternative BMP to be included on the Equivalent BMP List as follows:
A. Specify on the required checklist that accompanies the Notice of Intent Form that the project includes an Alternative BMP that will be included on an Application for the Equivalent BMP List
B. Inform GSWCC of the intent to apply by sending a digital copy of the approved ES&PC Plan and a copy of the above to GSWCC when the NOI is filed with EPD

2. Once the project involving the Alternative BMP has been completed and a Notice of Termination Form for the project has been filed, submit to GSWCC the following:
A. An Application to be on the Equivalent BMP List and a sample of the BMP.
B. Three sets-- one for each time the Alternative BMP was used in three separate projects-- of the required documentation to use the Alternative BMP, based on the current approval process as outlined by GSWCC Guidance. Evidence of repeatable bench and filed testing must be included as part of this documentation. Only approved ASTM standards will be accepted for repeatable bench testing; working test methods will not be accepted.
C. Three sets-- one for each time the Alternative BMP was used in three separate projects-- of the Notice of Termination form for each project involving the Alternative BMP.
D. A certification Form signed by two individuals -- a level II certified Design Professional and a level 1A or Level 1B Certified Personnel-- who evaluated the BMPs performance in the field stating that the Alternative BMP performed as expected throughout the life of each of the three projects.
E. Three sets of installation photos -- one for each time the Alternative BMP was used-- of the Alternative BMP utilized in the three projects.
F. Three sets of after-storm event photos-- one for each time the Alternative BMP was used-- of the Alternative BMP utilized in the three projects.
G. Any post-storm event inspection records as well as inspection and enforcemnt records made by any fedral, state, or local regulatory agency related to this specific BMP on this project.

The above materials should be submitted to GSWCC both electmoically and with hard copies to P.O. Box 8024, Athens, Georgia 30603. GSWCC will provide copies of the materials submitted to EPD and GDOT upon receipt. GSWCC will receive and review the information submitted above. GSWCC has the discretion to approve the application, deny the application, request a resubmittal, or request additional information, with consultation from EPD and GDOT.
Applicants will be informed of GSWCC's determination in writing. Applicants receiving approval for inclusion on the Equivalent BMP List will be notified within 90 days. Applicants with BMPs denied from inclusion on the Equivalent BMP List may seek review of the GSWCC's determination from the GSWCC State Board.

41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.

N/A for this site.

42 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.

There are no on-site wetlands located on and within 200 feet of the project site. (per the National Wetlands Inventory Map)
There are no State waters located on and within 200 feet of the project site.

43 Delineation and acreage of contributing drainage basins on the project site.

44 Refer to HYDRO STUDY for delineation and acreage of contributing drainage basins within and off-site the project.

45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.

RUNOFF COEFFICIENT

WEIGHTED PRE-CONSTRUCTION CURVE NUMBER (CN): **66**

WEIGHTED POST-CONSTRUCTION CURVE NUMBER (CN): **81**

46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.

Refer to SHEETS (C620) " Intermediate ES&PC PLAN for location and sizing table from all storm water discharge points located within the project.

47 Soil series for the project site and their delineation.

Refer to sheet C610 "Initial ES&PC Plan for Soil series delineation and classification

48 The limits of disturbance for each phase of construction.

Total area = **15.00**AC.
Disturbance area = **5.65** AC.

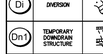
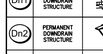
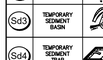
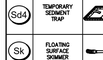
49 Sediment basin requirement and Justification to use equivalent controls when a sediment basin is not attainable for this project

Sediment Storage will be provided in temporary sediment trap shown in Phase I and in the detention pond in Phase II & Phase III

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.

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
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and linespanive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
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.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)		Cs	Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
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.
Fl-Co	FLOCCULANTS AND COAGULANTS		Fl-Co	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM. VEGETATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS		Tac	Substance used to anchor straw or hay mulch by causing the organic material to bind together.

GaSWCC (Amended – 2016)

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.

Refer to Sheets C740" STRUCTURAL EROSION DETAILS " for detailed drawings for all structural practices that meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.

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.

Refer to Sheet C740, " VEGETATIVE EROSION DETAILS " for all vegetative plan noting all temporary and permanent vegetative practice including species, planting dates and seeding, fertilize, lime and mulching rates.

MOORE CIVIL
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GEORGIA REGISTERED No. PE035680 PROFESSIONAL ROBERT EUGENE MOORE

LEVEL II CERTIFIED DESIGN PROFESSIONAL
GSWCC #0000064090
EXPIRATION: 05/30/2023

NOT RELEASED FOR CONSTRUCTION

24 HOUR CONTACT:
BEN HOLT
478-256-2380

CLIENT:
STROUD AND COMPANY
P.O. BOX 4044
MACON, GA 31208
478-743-5097

OWNER INFORMATION:
STROUD AND COMPANY
P.O. BOX 4044
MACON, GA 31208
478-743-5097

REVISIONS:

01/16/25	PRELIM LAYOUT
01/17/25	PRELIM LAYOUT
01/21/25	PRELIM LAYOUT
01/29/25	PRELIM GRADING
02/07/25	PRICING SET
04/02/25	1ST LDP
04/15/25	SITELAYOUT REVISED
07/01/25	SEPTIC ADDED

NATIONWIDE EXPANSION
GRISWOLDVILLE INDUSTRIAL
MACON, GA

SHEET TITLE:
NPDES NOTES

SHEET NUMBER:
C.720

MATERIAL	QUANTITY
DRY STRAW OR HAY	2" - 4" DEPTH
WOOD WASTE (SAWDUST, BARK, CHIPS)	2" - 3" DEPTH
CUTBACK ASPHALT (SLOW CURING)	1200 GAL. PER ACRE (1/4 GAL PER SQ. YD.)
POLYETHYLENE FILM	COMPLETELY COVERING EXPOSED AREA. TRENCHED IN AT OUTER EDGES.

Ds1 MULCHING

PLANT, PLANTING RATES, AND PLANTING DATED FOR TEMPORARY COVER OR COMPANION CROPS 1/

Species	Broadcast Rates 2/ Per Acre	PLS 3/ Per 1000 sq. ft.	Resource Area 4/	Planting Dates by Resource Areas (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
BARLEY (Horduem vulgare)			P		14,000 seed per pound. Winterhardy. Use on productive soils.
~~alone~~	3 bu. (144 lbs.)	3.3 lb.			
in mixture	1/2 bu. (24 lbs.)	0.6 lb.			
LESPEDEZA, ANNUAL (Lespedeza striata)			P		200,000 seed per pound. May volunteer for several years. Use inoculant EL.
alone	40 lbs.	0.9 lb.			
in mixtures	10 lbs.	0.2 lb.			
LOVEGRASS, WEEPING (Eragrostis curvula)			P		1,500,000 seed per pound. May last for several years. Mix with Sericea lespedeza.
alone	4 lbs.	0.1 lb.			
in mixtures	2lbs.	0.05 lb.			
MILLET, BROWNTOP (Panicum fasciculatum)			P		137,000 seed per pound. Quick dense cover. Will provide too much competition in mixtures if seeded at high rates.
alone	40 lbs.	C 0.9 lb.			
in mixtures	10 lbs.	0.2 lb.			

PLANT, PLANTING RATES, AND PLANTING DATED FOR TEMPORARY COVER OR COMPANION CROPS 1/

Species	Broadcast Rates 2/ Per Acre	PLS 3/ Per 1000 sq. ft.	Resource Area 4/	Planting Dates by Resource Areas (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
MILLET, PEARL (Pennesetum glaucum)			P		88,000 seed per pound. Quick dense cover. May reach 5 feet in height. Not recommended for mixtures.
alone	50 lbs.	1.1 lb.			
OATS (Avena sativa)			P		13,000 seed per pound. Use on productive soils. Not as winterhardy as rye or barley.
alone	4 bu. (128 lbs.)	2.9 lb.			
in mixtures	1 bu. (32 lbs.)	0.7lb.			
RYE (Secale cereale)			P		18,000 seed per pound. Quick cover. Drought tolerant and winterhardy.
alone	3 bu. (168 lbs.)	3.9 lb.			
in mixture	1/2 bu. (28 lbs.)	0.6 lb.			
RYEGRASS, ANNUAL (Lolium temulentum)			P		227,000 seed per pound. Dense cover. Very competitive and is not to be used in mixtures.
alone	40 lbs.	0.9 lb.			
SUDANGRASS (Sorghum Sudanese)			P		55,000 seed per pound. Good on droughty sites. Not recommended for mixtures.
alone	60 lbs.	1.4lb			

PLANT, PLANTING RATES, AND PLANTING DATED FOR TEMPORARY COVER OR COMPANION CROPS

Species	Broadcast Rates 2/- Per Acre	PLS 3/ Per 1000 sq. ft.	Resource Area 4/	Planting Dates by Resource Areas (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
WHEAT (Triticum Aestivum)			P		15,000 seed per pound.
alone	3 bu. (180 lbs.)	4.1 lb.			
in mixtures	1/2 bu. (30 lbs.)	0.7 lb.			

1/ Temporary cover crops are very competitive and will crown out perennials if seeded too heavily.
2/ Reduce seeding rates by 50% when drilled.
3/ PLS is an abbreviation for Pure Live Seed.
4/ P represents the Southern Piedmont MLRA

Ds2 STABILIZATION WITH TEMPORARY SEEDING

Fertilizer Requirements

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2/
	Second	6-12-12	1000 lbs./ac.	
	Maintenance	10-10-10	400 lbs./ac.	30
2. Cool season grasses and legumes	First	6-12-12	1500 lbs./ac.	0-50 lbs./ac. 1/
	Second	0-10-10	1000 lbs./ac.	
	Maintenance	0-10-10	400 lbs./ac.	
3. Ground covers	First	10-10-10	1300 lbs./ac. 3/	
	Second	10-10-10	1300 lbs./ac. 3/	
	Maintenance	10-10-10	1100 lbs./ac.	
4. Pine seedlings	First	20-10-5	one 21-gram pellet per seedling placed in the closing hole	
5. Shrub Lespedeza	First	0-10-10	700 lbs./ac.	
	Maintenance	0-10-10	700 lbs./ac. 4/	
6. Temporary cover crops seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/
7. Warm season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2/6/
	Second	6-12-12	800 lbs./ac.	50-100 lbs./ac. 2/
	Maintenance	10-10-10	400 lbs./ac.	30lbs./ac.
8. Warm season grasses and legumes	First	6-12-12	1500 lbs./ac.	50 lbs./ac./6/
	Second	0-10-10	1000 lbs./ac.	
	Maintenance	0-10-10	400 lbs./ac.	

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.

PLANTS, PLANTING RATES, AND PLANTING DATES FOR PERMANENT COVER

Species	Broadcast Rates 1/ Per Acre	PLS 2/ Per 1000 sq. ft.	Resource Area 3/	Planting Dates by Resource Areas (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
BAHIA, PENSACOLA (Paspalum notatum)			P		166,000 seed per pound. Low growing. Sod forming. Slow to establish. Plant with a companion crop. Will spread into bermuda pastures and lawns. Mix with Sericea lespedeza or weeping lovegrass.
alone or with temporary cover	60 lbs.	1.4 lb.			
with other perennials	30 lbs.	0.7 lb.			
BAHIA, WILMINGTON (Paspalum notatum)			P		Same as above.
alone or with temporary cover	60 lbs.	1.4 lb.			
with other perennials	30 lbs.	0.7 lb.			
BERMUDA, COMMON (Cynodon dactyl on) Hulled seed			P		1,787,000 seed per pound. Quick cover. Low growing and sod forming. Full sun. Good for athletic fields.
alone	10 lbs.	0.2 lb.			
with other perennials	6 lbs.	0.1 lb.			

Species	Broadcast Rates 1/ Per Acre	PLS 2/ Per 1000 sq. ft.	Resource Area 3/	Planting Dates by Resource Areas (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
BERMUDA, COMMON (Cynodon dactylon) Unhulled seed			P		
with temporary cover	10 lbs.	0.2 lb.			Plant with winter annuals.
with other perennials	6 lbs.	0.1 lb.			Plant with tall fescue.
BERMUDA SPRIGS (Cynodon dactylon)	40 cu. ft.	0.9 cu. ft. or sod plugs 3' x 3'			A cubic foot contains approximately 650 sprigs. A bushel contains 1.25 cubic feet or approximately 800 sprigs.
Coastal, Common, Midland, or Tift 44					
Coastal, Common,			P		Same as above.
CENTIPEDE (Eremochloa ophiuroides)		Block sod only	P		Drought tolerant. Full sun or partial shade. Effective adjacent to concrete and in concentrated flow areas. Irrigation is needed until fully established. Do not plant near pastures. Winterhardy as far north as Athens and Atlanta.

Species	Broadcast Rates 1/ Per Acre	PLS 2/ Per 1000 sq. ft	Resource Area 3/	Planting Dates by Resource Areas (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
CROWNVETECH (Coronilla varia)					100,000 seed per pound. Dense growth. Drought tolerant and fire resistant. Attractive rose, pink, and white blossoms spring to late fall. Mix with 30 pounds of Tall fescue or 15 pounds of rye. Inoculate seed with M inoculant. Use from North Atlanta and Northward.
with winter annuals or cool season grasses	15 lbs.	0.3 lb.	P		
FESCUE, TALL (Festuca arundinacea)			P		227,000 seed per pound. Use alone only on better sites. Not for droughty soils. Mix with perenniallespedezas or crownvetch. Apply topdressing in spring following fall plantings. Not for heavy use areas or athletic fields.
alone	50 lbs.	1.1 lbs.			
with other perennials	30 lbs.	0.7 lb.			

Species	Broadcast Rates 1/ Per Acre	PLS 2/ Per 1000 sq. ft.	Resource Area 3/	Planting Dates by Resource Areas (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
LESPEDEZA, SERICEA (Lespedeza cuneata)					350,000 seed per pound. Widely adapted. Low maintenance. Mix with weeping lovegrass, common bermuda, bahia, or tall fescue. Takes 2 to 3 years to become fully established. Excellent on roadbanks. Inoculate seed with EL inoculant.
scarified	60 lbs.	1.4 lbs.	P		
unscarified	75 lbs.	1.7 lb.	P		Mix with Tall fescue or winter annuals.
seed-bearing hay	3 tons	138 lb.	P		Cut when seed is mature, but before it shatters. Add Tall fescue or winter annuals.

Species	Broadcast Rates 1/ Per Acre	PLS 2/ Per 1000 sq. ft.	Resource Area 3/	Planting Dates by Resource Areas (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
LESPEDEZA Ambro virgata (Lespedeza virgata DC) or Appalow (Lespedeza cuneata [Dumont] G. Don)					300,000 seed per pound. Height of growth is 18 to 24 inches. Advantageous in urban areas. Spreading-type growth has bronze coloration. Mix with Weeping lovegrass, Common bermuda, bahia, tall fescue or winter annuals. Do not mix with Sericea lespedeza. Slow to develop solid stands. Inoculate seed with EL inoculate.
scarified	60 lbs.	1.4 lb.	P		
unscarified	75 lbs.	1.7 lb.	P		
LESPEDEZA, SHRUB (Lespedeza bicolor) (Lespedeza thumbergii)			P		Provide wildlife food and cover.
plants		3'x3'			
LOVEGRASS, WEEPING (Eragrostis curvula)					1,500,000 seed per pound. Quick cover. Drought tolerant. Grows well with Sericea lespedeza on roadbanks.
alone	4 lbs.	0.1 lb.	P		
with other perennials	2 lbs.	0.05 lb.			

Species	Broadcast Rates 1/ Per Acre	PLS 2/ Per 1000 sq. ft.	Resource Area 3/	Planting Dates by Resource Areas (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
MAIDENCANE (Panicum hemitomon)					For very wet sites. May clog channels. Dig sprigs from local sources. Use along river banks and shorelines.
sprigs	2' x 3' spacing		ALL		
PANICGRASS, ATLANTIC COASTAL (Panicum amarum var. amarulum)	20 lbs.	0.5 lb.	P		Grows well on coastal sand dunes, borrow areas, and gravel pits. Provides winter cover for wildlife. Mix with Sericea lespedeza except on sand dunes.
REED CANARY GRASS (Phalaris arundinacea)			P		
alone	50 lbs.	1.1 lb.			Grows similar to tall fescue.
with other perennials	30 lbs.	0.7 lb.			
SUNFLOWER, 'AZTEC' MAXIMILLIAM (Helianthus maximiliani)	10 lbs.	0.2 lb.	P		227,000 seed per pound. Mix with weeping lovegrass or other low-growing grasses or legumes.

Ds3 STABILIZATION WITH PERMANENT VEGETATION

APPROPRIATE SOD VARIETIES FOR MACON

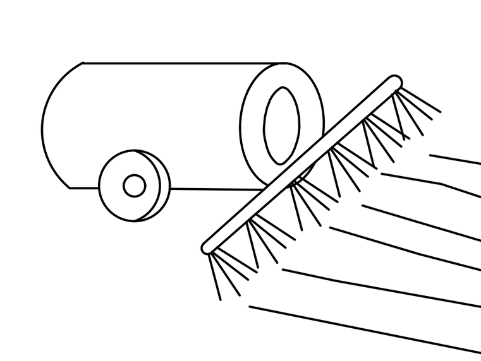
GRASS	VARIETY	GROWING SEASON
BERMUDA	COMMON TIFWAY TIFGREEEN, TIFLAWN	WARM WEATHER
BAHIA	PENSACOLA	WARM WEATHER
CENTIPEDE	----	WARM WEATHER
ZOYSIA	EMERALD MEYER	WARM WEATHER
TALL FESCUE	KENTUCKY	COOL WEATHER

SOIL PREPARATION
BRING SOIL SURFACE TO FINAL GRADE. CLEAR SURFACE OF TRASH, WOODY DEBRIS, STONES AND CLODS LARGER THAN 1". APPLY SOD TO SOIL SURFACES ONLY AND NOT FROZEN SURFACES, OR GRAVEL TYPE SOILS.
MIX FERTILIZER INTO SOIL SURFACE. FERTILIZE BASED ON SOIL TESTS OR GENERAL APPLICATION OF 10-10-10 @ 1000 LBS PER ACRE (1 LB /40 SQ. FT.) AGRICULTURAL LIME SHOULD BE APPLIED BASED ON SOIL TESTS OR AT A RATE OF 1 TO 2 TONS / ACRE.

GRASS TYPE	PLANTING YEAR	FERTILIZER (NPK)	RATE (LBS/ ACRE)	NITROGEN TOP DRESSING (LBS/ ACRE)
COOL SEASON GRASSES	1ST 2ND MAINTENACE	6-12-12 6-12-12 10-10-10	1500 1000 400	50-100 --- 30
WARM SEASON GRASSES	1ST 2ND MAINTENACE	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30

Ds4 STABILIZATION WITH SODDING

DUST CONTROL



Du DUST CONTROL

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 STANDARD TB-TACKIFIERS AND BINDERS. RESINS SUCH AS CURASOL OR TERRATACK SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

VEGETATIVE COVER. SEE STANDARD 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 STANDARD TB-TACKIFIERS AND BINDERS.

TILLAGE. THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS.

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.

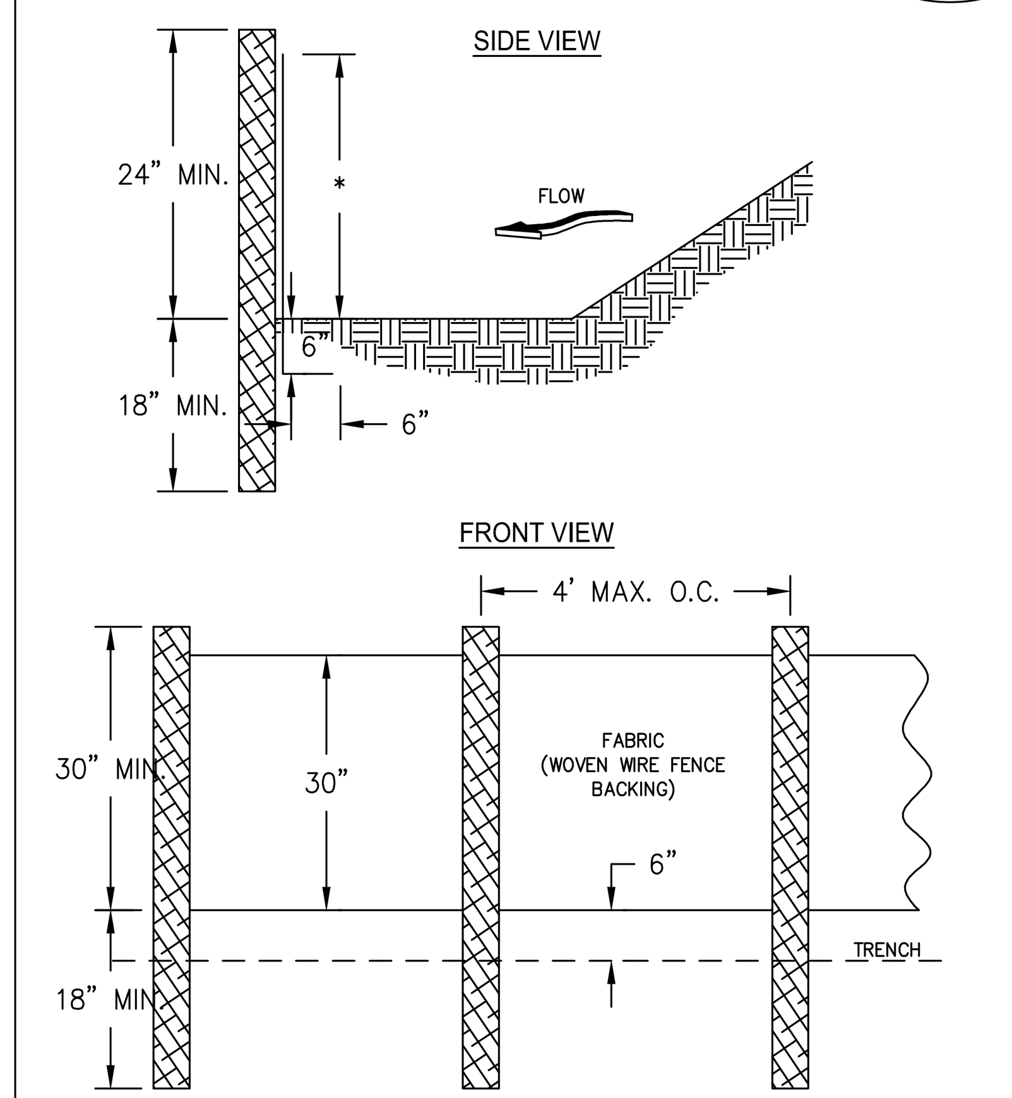
CALCIUM CHLORIDE. APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

PERMANENT METHODS
PERMANENT VEGETATION. SEE STANDARD 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 STANDARD TP - TOPSOILING.

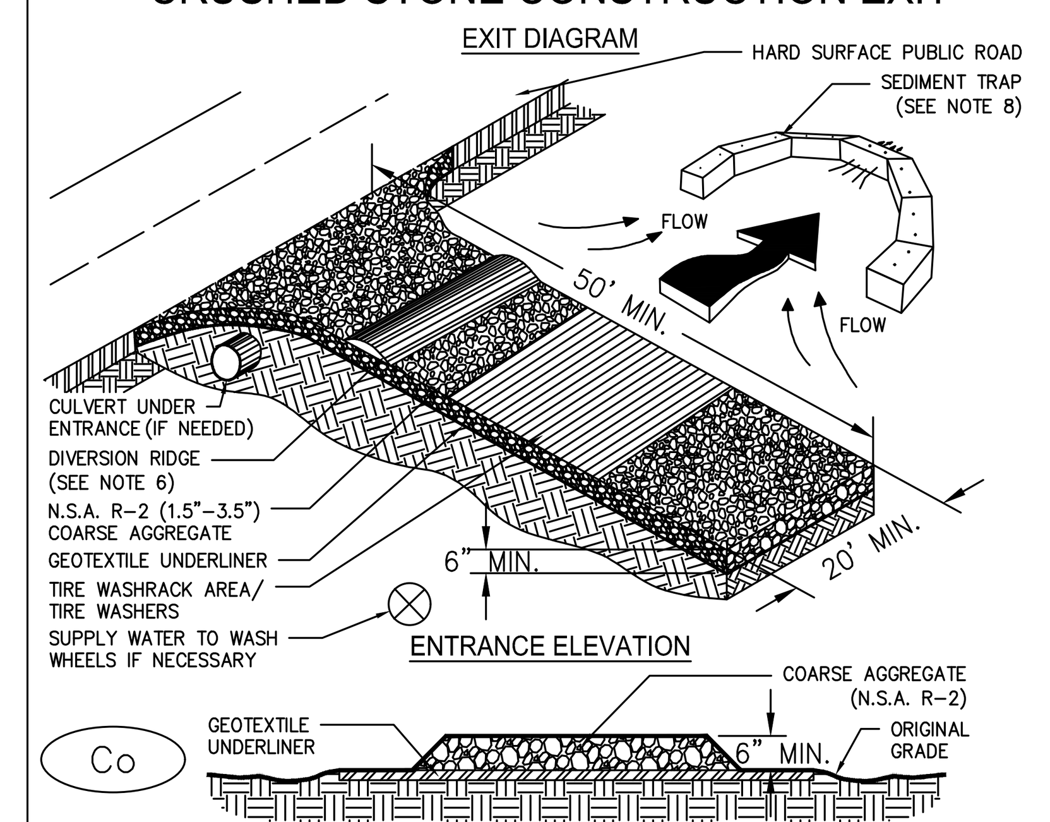
STONE. COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE STANDARD CR-CONSTRUCTION ROAD STABILIZATION.

SILT FENCE - TYPE SENSITIVE (Sd1-S)

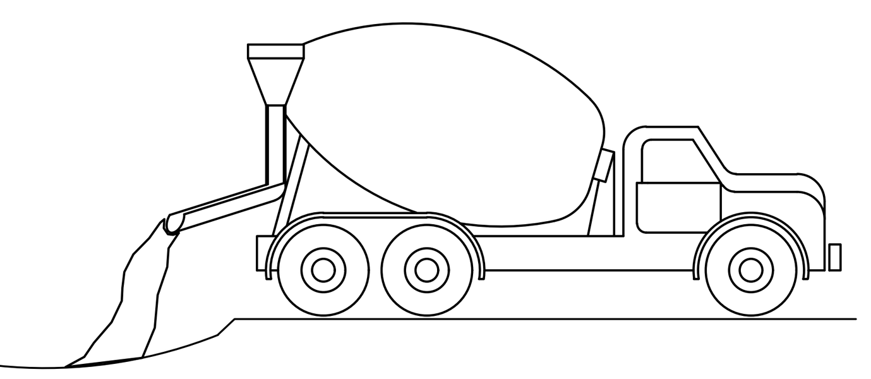


NOTES:
1. USE STEEL POSTS AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

CRUSHED STONE CONSTRUCTION EXIT



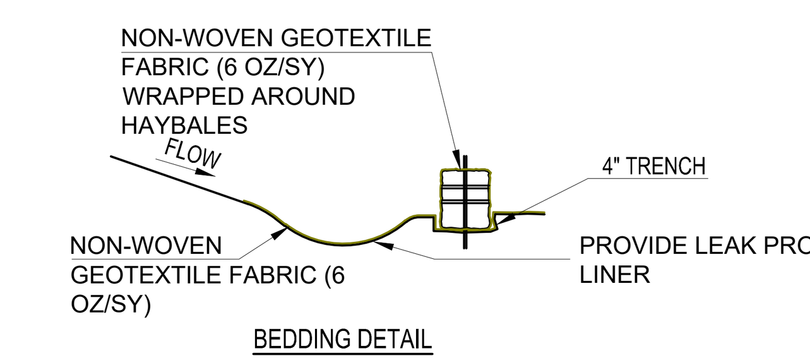
NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD 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.

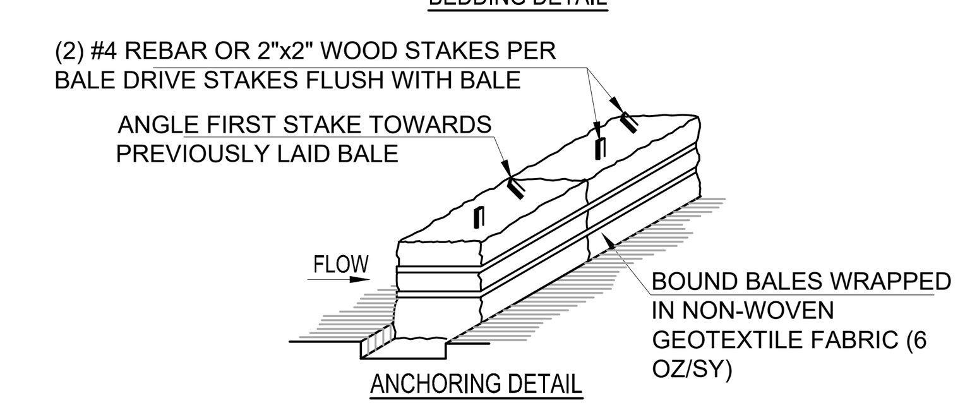


24
NOTES:
1. DESIGNATE WASHDOWN AREA AND EXCAVATE PIT LARGE ENOUGH TO CONTAIN WASHDOWN WATER. THIS MUST BE AWAY FROM STORM DRAINS AND WATERWAYS.
2. ADVISE CONCRETE TRUCK DRIVERS OF THE DESIGNATED WASH-OUT AREAS BEFORE THEY START THE JOB.
3. WASHDOWN CHUTE, HOPPER, AND REAR OF VEHICLE ONLY. DO NOT WASH OUT DRUM.
4. ENSURE THAT ALL WASHDOWN WATER STAYS IN PIT.
5. DISPOSE OF SETTLED, HARDENED CONCRETE IN GARBAGE WITH OTHER CONSTRUCTION DEBRIS.
6. NEVER DISPOSE OF WASHDOWN WATER IN STREETS, STORM DRAINS, OR STREAMS.
7. PROVIDE A LEAK PROOF LINER IN WASH OUT AREA

:: CONCRETE WASH DOWN STATION
scale: NTS

NOTES:
1. BALES SHALL BE PLACED ON THE CONTOUR PER PLANS AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR REBAR DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARDS THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR AND/OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR PURPOSE SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
6. CONTRACTOR SHALL PROVIDE CLEARLY POSTED SIGNAGE INDICATING WASHDOWN AREA.
7. NO CONCRETE DRUM WASHOUT IS ALLOWED ON SITE.





CONCRETE WASHDOWN AREA
NOT TO SCALE #24

VEGETATION NOTES

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 MULCHING ONLY).

WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HANDSEEDING, 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 (TEMPORARY VEGETATION, DS-2)
AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED. ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (12-16 LBS./1,000 SQ. FT.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.

LIME AND FERTILIZER RATES AND ANALYSIS (PERMANENT VEGETATION, DS-3)
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. INITIAL FERTILIZATION, NITROGEN, TOPDRESSING, AND MAINTENANCE FERTILIZER REQUIREMENTS FOR EACH SPECIES OR COMBINATION OF SPECIES ARE LISTED IN TABLE 6-5.1.

MULCHING
MULCH 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:
1. 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 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2 TONS PER ACRE.
2. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING.
3. 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.
4. SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE.
5. 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.
6. WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT REQUIRED.
7. BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS ON SLOPES, IN DITCHES OR DRY WATERWAYS TO PREVENT EROSION. BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

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01/16/25	PRELIM LAYOUT
01/17/25	PRELIM LAYOUT
01/21/25	PRELIM LAYOUT
01/29/25	PRELIM GRADING
02/07/25	PRICING SET
04/02/25	1ST LDP
04/15/25	SITELAYOUT REVISED
07/01/25	SEPTIC ADDED

NATIONWIDE EXPANSION
GRISWOLDVILLE INDUSTRIAL
MACON, GA

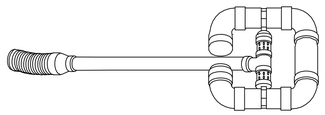
SHEET TITLE:
EROSION CONTROL DETAILS

SHEET NUMBER:
C.730

TEMPORARY SEDIMENT POND SKIMMER

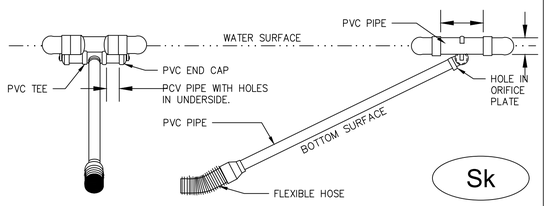
NOTE:
SKIMMER CONFIGURATION SHOWN IS TYPICAL. THE DESIGNER/ENGINEER MAY SUBMIT AN ALTERNATE SKIMMER DETAIL FOR REVIEW.

SKIMMER PERSPECTIVE



SKIMMER FRONTAL SECTION VIEW

SKIMMER SIDE SECTION VIEW



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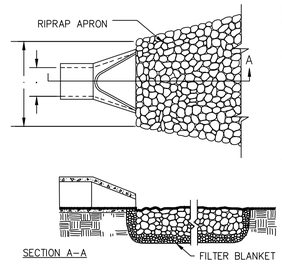
DETENTION POND 1

BASIN 1 = 4.0" SKIMMER AND 3.8" ORIFICE DIAMETER
LENGTH WIDTH DEPTH = 280' X 70' X 4'
TIME TO DRAIN = 2 DAYS
MANUFACTURER'S NAME = FAIRCLOTH SKIMMER

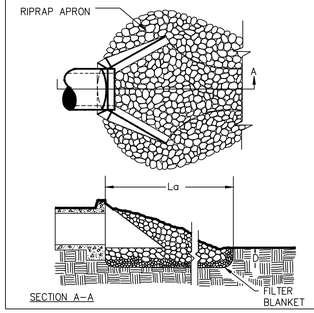
RIPRAP OUTLET PROTECTION

PIPE OUTLET TO FLAT AREA – NO WELL DEFINED CHANNEL



NOTES:
1. La IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL–DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

PIPE OUTLET TO WELL DEFINED CHANNEL



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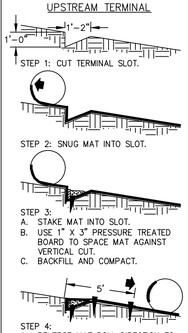
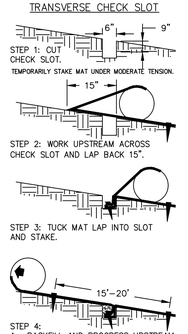
TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

BLANKET AND MATTING CROSS-SECTIONS

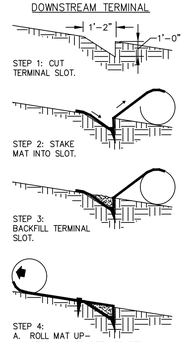
UPSTREAM TERMINAL



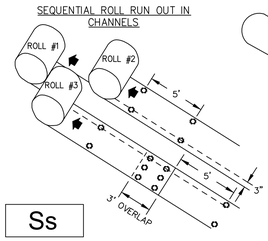
TRANSVERSE CHECK SLOT



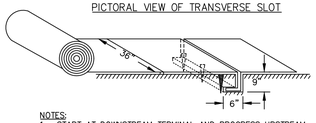
DOWNSTREAM TERMINAL



SEQUENTIAL ROLL RUN OUT IN CHANNELS

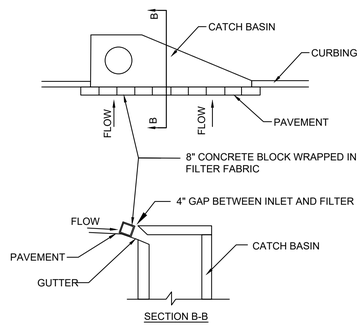


PICTORAL VIEW OF TRANSVERSE SLOT



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.

Ss

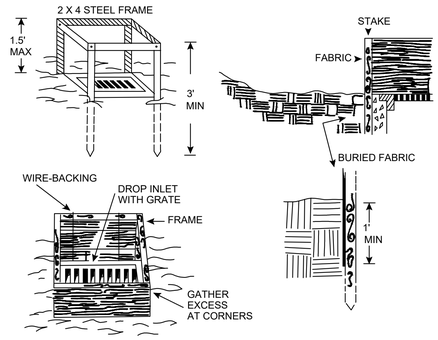


CURB INLET PROTECTION

ONCE PAVEMENT HAS BEEN INSTALLED, A CURB INLET FILTER SHALL BE INSTALLED ON INLETS RECEIVING RUNOFF FROM DISTURBED AREAS. THIS METHOD OF INLET PROTECTION SHALL BE REMOVED IF A SAFETY HAZARD IS CREATED.

ONE METHOD OF CURB INLET PROTECTION USES "PIGS-IN-A-BALNKET" 8-INCH CONCRETE BLOCKS WRAPPED IN FILTER FABRIC. SEE DETAIL. ANOTHER METHOD USES GRAVEL BAGS CONSTRUCTED BY WRAPING DOT #57 STONE WIHT FILTER FABRIC, WIRE, PLASTIC MESH, OR EQUIVALENT MATERIAL.
A GAP OF APPROXIMATELY 4 INCHES SHALL BE LEFT BETWEEN THE INLET FILTER AND THE INLET TO ALLOW FOR OVERFLOW AND PREVENT HAZARDOUS PONDING IN THE ROADWAY. PROPER INSTALLATION AND MAINTENANCE ARE CRUCIAL TO AVOID PONDING IN THE ROADWAY, RESULTING IN A HAZARDOUS CONDITION.

Sd2-P CURB INLET PROTECTION



FILTER FABRIC WITH SUPPORTING FRAME

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) AND SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS. AS SHOWN IN DETAIL, TYPE C SILT FENCE SUPPORTED BY STEEL POSTS SHALL BE USED. THE STAKES SHALL BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART, AND SECURELY DRIVEN IN TO THE GROUND, APPORIMATELY 18 INCHES DEEP. THE FABRIC SHALL BE ENTRENCHED 12 INCHES AND BACKFILLED WITH WITH CRUSHED STONE OR COMPACTED SOIL. FABRIC AND WIRE SHALL BE SECURELY FASTENED TO THE POSTS, AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUN OF 18 INCHES OR WRAPPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS
FABRIC BARRIER AROUND THE INLET.

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01/21/25	PRELIM LAYOUT
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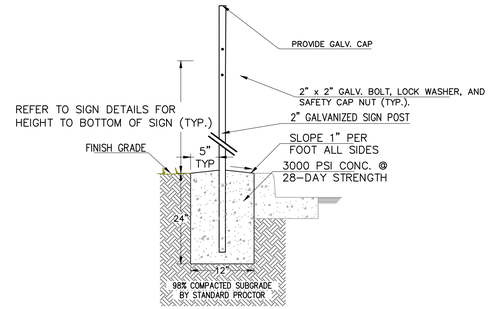
02/07/25	PRICING SET
04/02/25	1ST LDP
04/15/25	SITELAYOUT REVISED
07/01/25	SEPTIC ADDED

NATIONWIDE EXPANSION
GRISWOLDVILLE INDUSTRIAL
MACON, GA

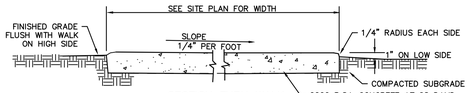
SHEET TITLE:
EROSION CONTROL DETAILS

SHEET NUMBER:
C.740

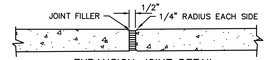


SITE SIGNAGE POST

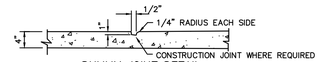
NOT TO SCALE



SECTION THRU WALK



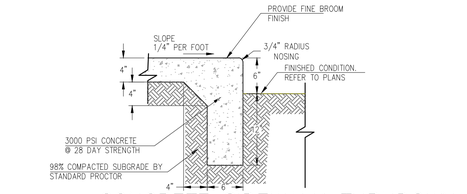
EXPANSION JOINT DETAIL
LOCATE JT. 40'-0" O.C. MAX.



DUMMY JOINT DETAIL
LOCATE JT. SAME INTERVAL AS WIDTH OF WALK

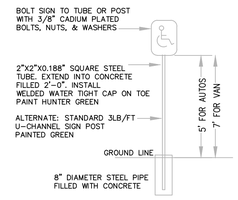
TYPICAL WALK DETAILS

N.T.S.



CONCRETE SIDEWALK TURNDOWN

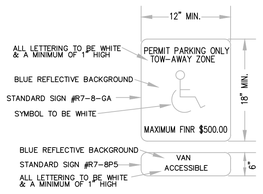
NOT TO SCALE



1. ALL SIGNS TO BE 0.080" THICK ALUMINUM.
2. ALL SIGNS SHALL CONFORM WITH ALL CURRENT A.D.A., FEDERAL, STATE, AND LOCAL CODES & REGULATIONS.
3. PLACE "VAN ACCESSIBLE SIGN IN FRONT OF VAN ACCESSIBLE SPACES ONLY.

HANDICAP PARKING SIGN PLACEMENT DETAIL

N.T.S.



ADA PARKING SIGN DETAIL

N.T.S.

MOORE CIVIL
CONSULT>DESIGN>ENGINEER
706.224.1629
ROBERT@MOORECIVIL.COM

GEORGIA REGISTERED PROFESSIONAL No. PE035680 ROBERT EUGENE MOORE

LEVEL II CERTIFIED
DESIGN PROFESSIONAL
GSWCC #0000064090
EXPIRATION: 05/30/2023

NOT RELEASED FOR CONSTRUCTION

24 HOUR CONTACT:
BEN HOLT
478-256-2380

CLIENT:
STROUD AND COMPANY
P.O. BOX 4044
MACON, GA 31208
478-743-5097

OWNER INFORMATION:
STROUD AND COMPANY
P.O. BOX 4044
MACON, GA 31208
478-743-5097

REVISIONS:

01/16/25	PRELIM LAYOUT
01/17/25	PRELIM LAYOUT
01/21/25	PRELIM LAYOUT
01/29/25	PRELIM GRADING
02/07/25	PRICING SET
04/02/25	1ST LDP
04/15/25	SITELAYOUT REVISED
07/01/25	SEPTIC ADDED

NATIONWIDE EXPANSION
GRISWOLDVILLE INDUSTRIAL
MACON, GA

SHEET TITLE:
CONSTRUCTION DETAILS

SHEET NUMBER:
C.800