PROJECT NAME

ADDRESS TIFTON, GA 31793

PROJECT NO. ENG2051

CLIENT 1

OWNER/DEVELOPER/PRIMARY PERMITTEE:

SITE ENGINEER: SCARBOR LAND PLANNING, LLC 5194 U.S. HWY 319 S TIFTON, GA 3179375 CONTACT: CHADWICK WILLIAM SCARBOR PHONE: 229528-4204

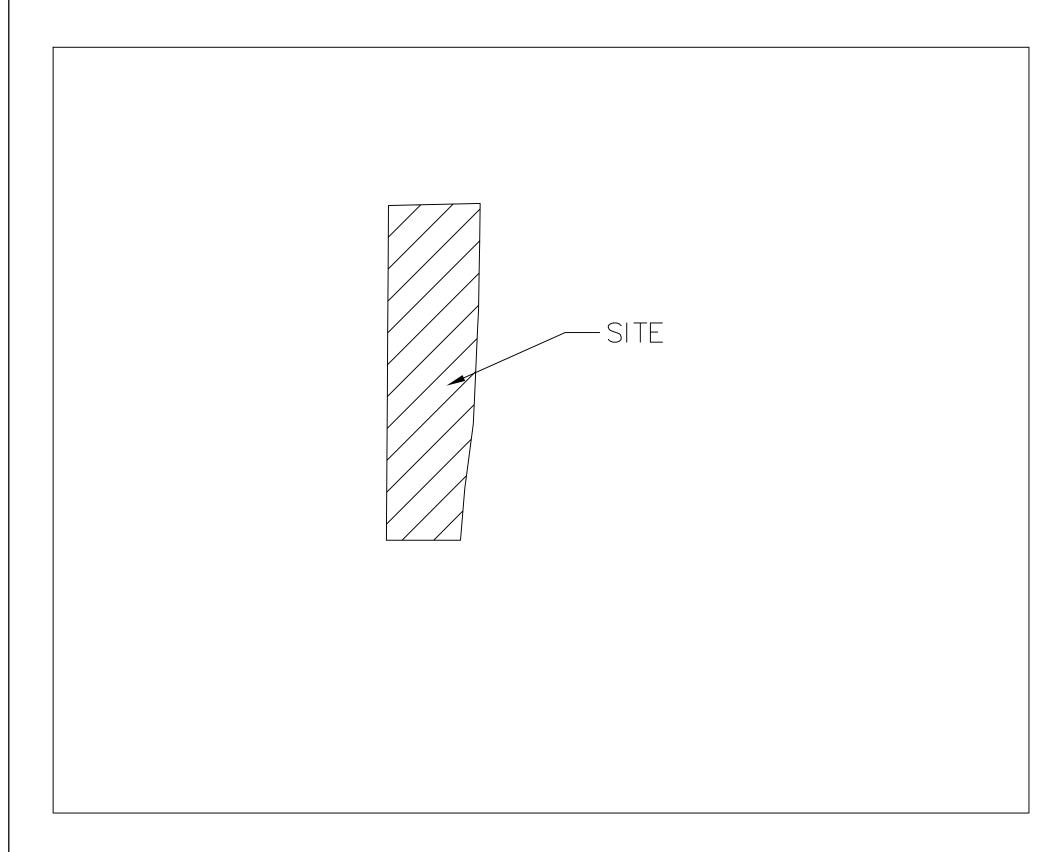
CHAD@SCARBORLANDPLANNING.COM

SURVEYOR:

BOUNDARY INFORMATION:

SURVEYOR

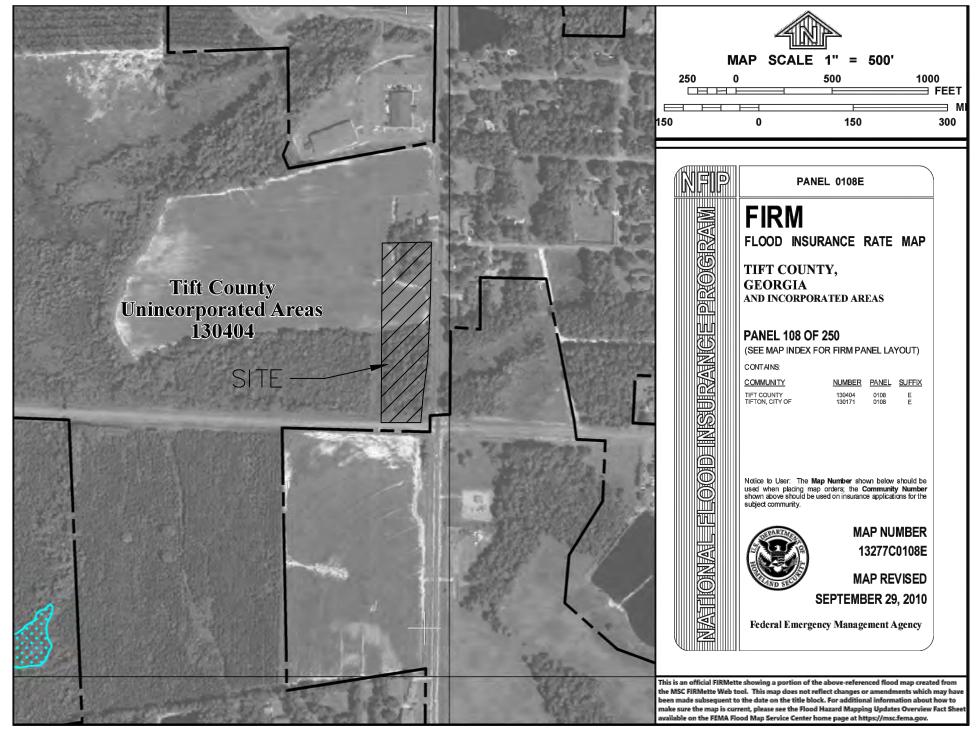
CONTACT



LOCATION MAP (N.T.S.)

HYDROLOGY STATEMENT:

THIS PROJECT WILL INVOLVE THE CONSTRUCTION OF A STORMWATER MANAGEMENT POND TO ATTENUATE THE 1-100 YEAR STORMS. ALL STORM WATER RUNOFF FROM THIS DEVELOPMENT AND FUTURE DEVELOPMENT WILL BE ROUTED VIA SHEET FLOW TO THE STORM SYSTEM AND INTO THE PROPOSED DETENTION POND WITH THE EXCEPTION OF ONE BYPASS AREA. THE PROPOSED STORMWATER POND WILL ACCOMMODATE 2.80 ACRES OF IMPERVIOUS FROM THE PROPOSED DEVELOPMENT AND APPROXIMATELY 1.30 ACRES OF IMPERVIOUS THAT BYPASS THE SITE.



THIS PROPERTY IS NOT LOCATED WITHIN THE BASE FLOOD PLAIN AS PER FIRM MAP PANEL NUMBER 13277C0108E DATED SEPTEMBER 29, 2010.

PROJECT NARRATIVE: PROJECT DESCRIPTION

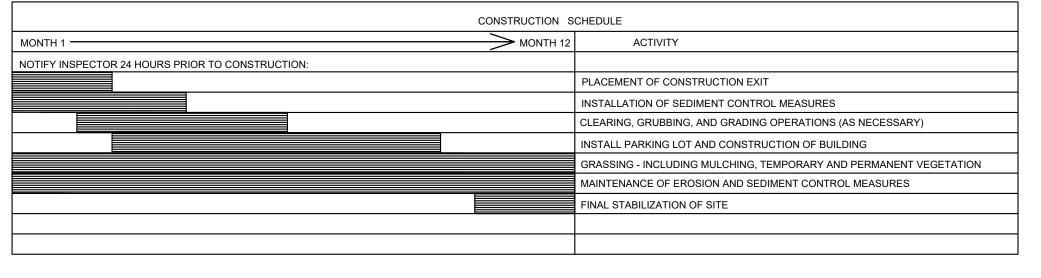
CAUTION CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE SERVICES OF A PRIVATE UTILITY LOCATOR FIRM DURING THE ENTIRE COURSE OF CONSTRUCTION. CONTRACTOR SHALL PAY FOR SAID SERVICES. CONTRACTOR SHALL REPAIR ALL UTILITIES DAMAGED BY CONSTRUCTION

THE UTILITIES SHOWN ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE SITE DESIGN PROFESSIONAL ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF UTILITIES WITHIN THE LIMITS OF THE WORK. DAMAGE TO EXISTING UTILITIES BY THE CONTRACTOR, FROM HIS/ HER OPERATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

ACTIVITIES, AT NO ADDITIONAL COST TO THE OWNER/DEVELOPER.

DO NOT DUPLICATE DRAWINGS WITHOUT PERMISSION

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.



GENERAL NOTES

SURVEYOR

NOTIFY TIFT 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 TIFT 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 PIPE AND STRUCTURES SHALL BE IN ACCORDANCE WITH TIFT 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

REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.

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

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

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.

SHEET INDEX

C.100 COVER SHEET EXISTING CONDITIONS PLAN & DEMOLITION PLAN

SITE & STAKING PLAN

GRADING & DRAINAGE PLAN C.400 POND DETAILS & STORM PROFILES C.410

C.500 UTILITY PLAN

SANITARY SEWER PROFILES C.510

ESPC PLAN PHASE I

C.620 ESPC PLAN PHASE II ESPC PLAN PHASE III C.630

NPDES NOTES

NPDES NOTES

C.660 NPDES NOTES

C.700 ESPC DETAILS

ESPC DETAILS C.710

C.800 CONSTRUCTION DETAILS CONSTRUCTION DETAILS C.810

C.900 LANDSCAPE PLAN

*ESPC = EROSION SEDIMENTATION AND POLLUTION CONTROL

OLIEET	
SHEET	
C.100	

LEVEL II CERTIFIED

DESIGN PROFESSIONAL

GSWCC #0000092676

EXPIRATION: 12/02/2026

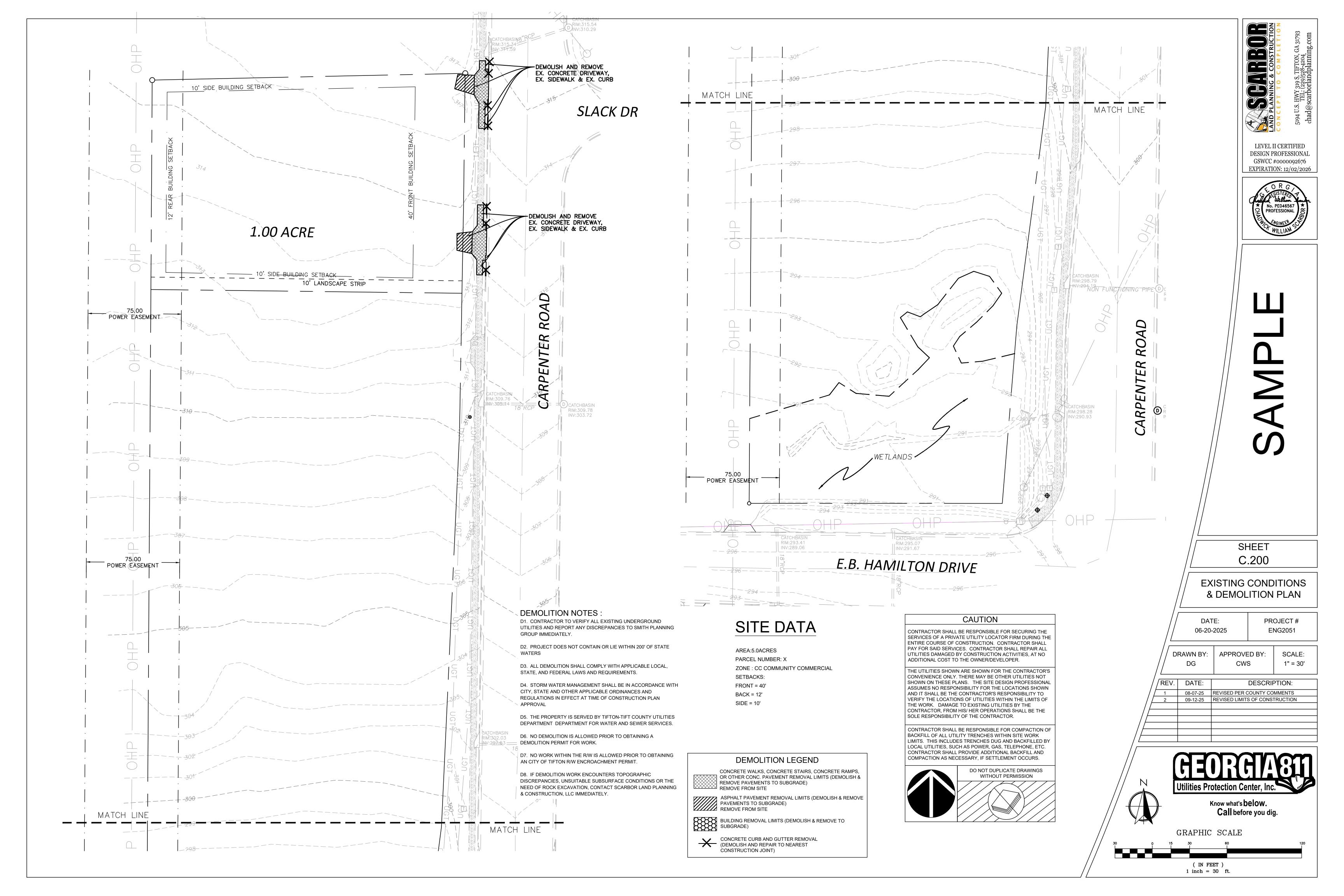
COVER SHEET

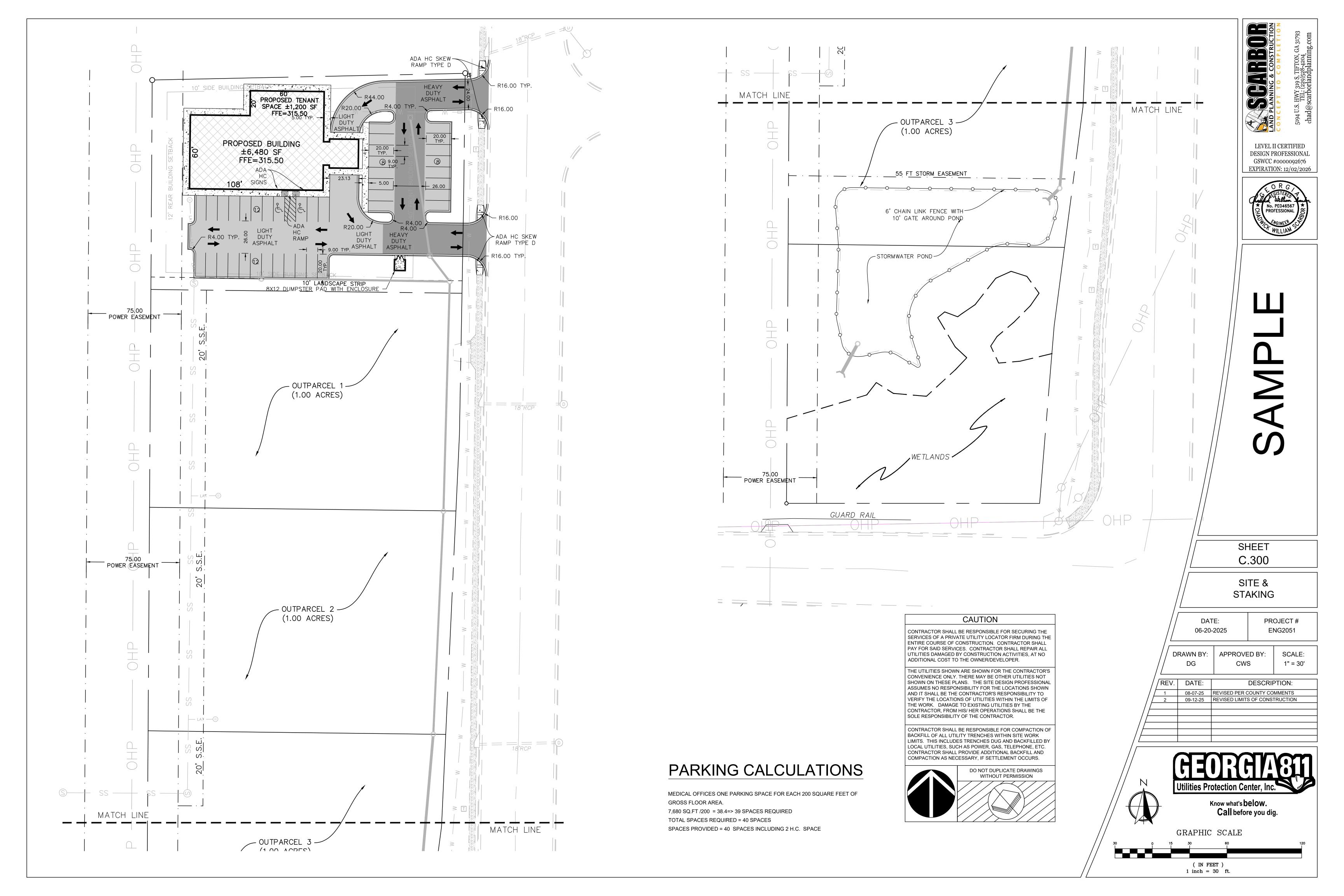
DATE:	PROJECT#
06-20-2025	ENG2051

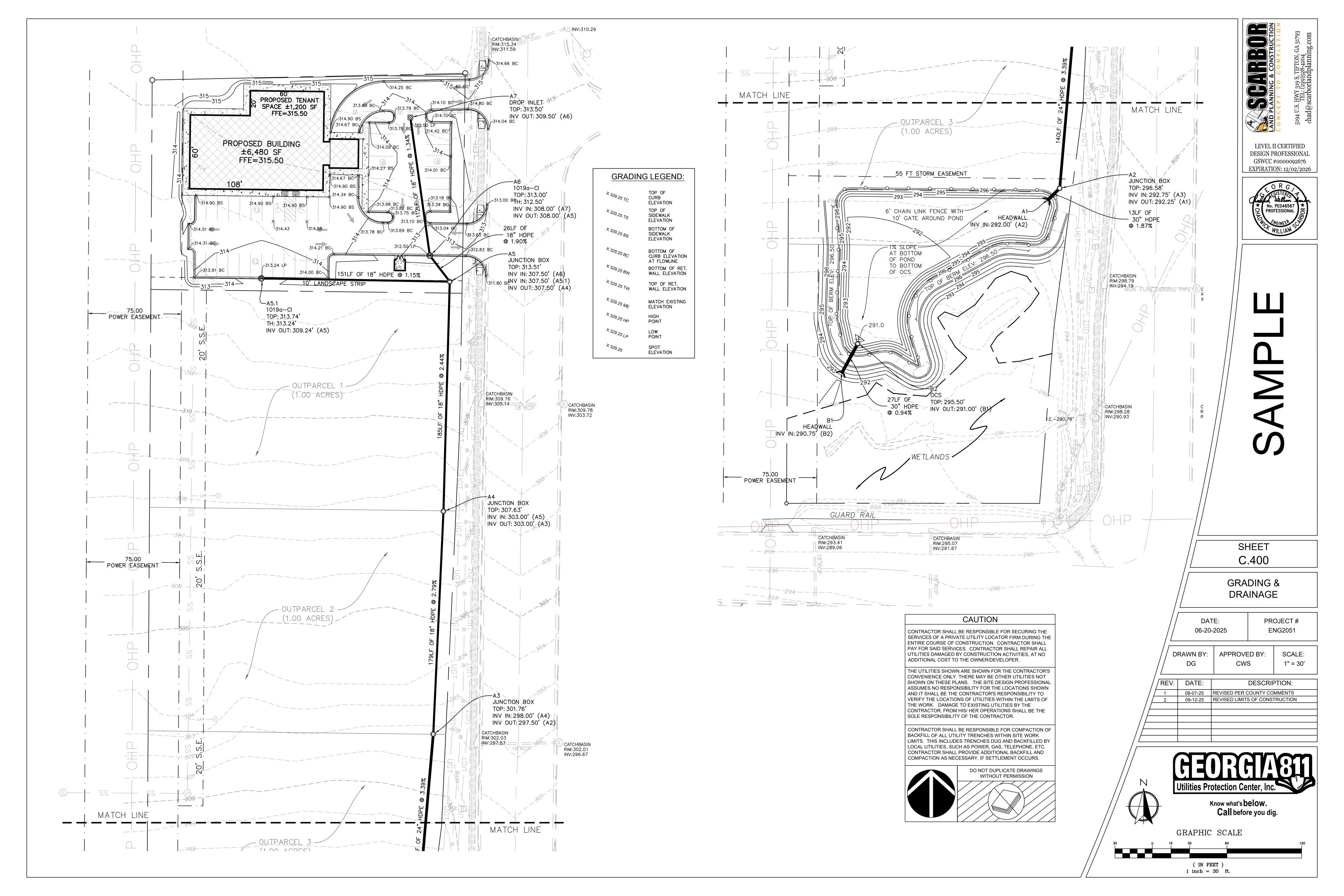
DRAWN BY: APPROVED BY: SCALE: **CWS** N.T.S.

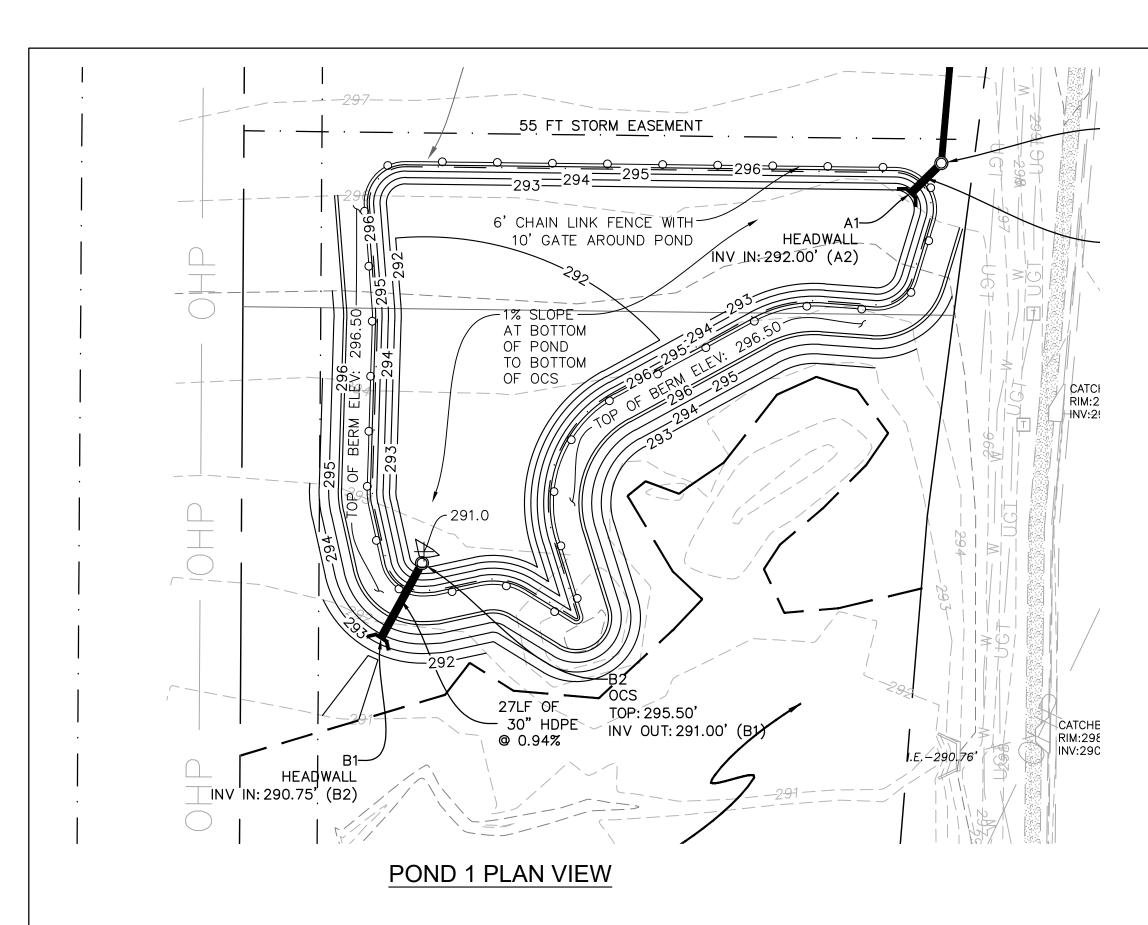
	/	REV.	DATE:	DESCRIPTION:
,	/ /	1	08-07-25	REVISED PER COUNTY COMMENTS
/	\mathcal{L}	2	09-12-25	REVISED LIMITS OF CONSTRUCTION
_/				
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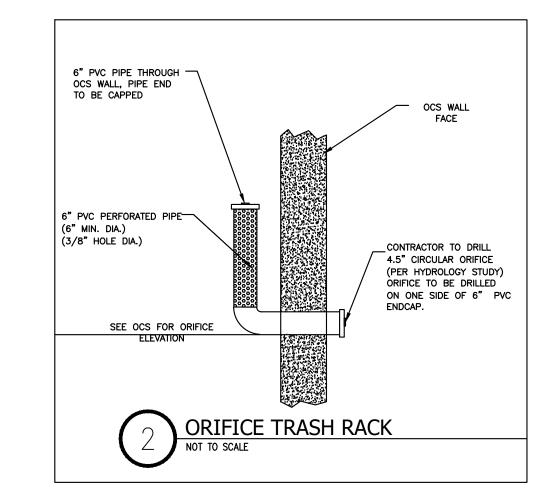






TOP OF DAM/DIKE (BEYOND) ELEV. 296.50' 25-YEAR PONDING 294.78' 4' INNER DIAMETER 6" PVC WITH — 4.5" ORIFICE INV. EL: 291.00' 1.00' WIDE WEIR 30" HDPE OUTLET PIPE <u>INV. 291.00'</u> FRONT VIEW SIDE VIEW CONCRETE SHALL BE 4000 P.S.I. @ 28 DAY STRENGTH POND 1 CONCRETE OUTLET CONTROL STRUCTURE (O.C.S.) B2

EROSION CONTROL AND OCS NOTE: DURING CONSTRUCTION CONNECT SKIMMER TO 6" PVC AT THE BOTTOM OF OCS WITH ENDCAP REMOVED AFTER NOT IS FILED AND SITE IS STABILIZED CONTRACTOR SHALL REMOVE ACCUMULATED SILT ON BOTTOM OF POND, SK AND FR ARE REMOVED, INSTALL/MODIFY OCS AS SPECIFIED ON DETAIL AND INSTALL OTHER POND FEATURES



A5.1

318

316

306

304

302

1019a-CI

TOP: 313.74'

INV OUT: 309.24' (A5)

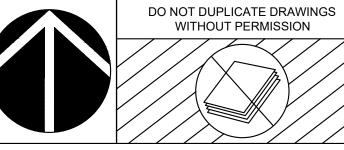
TH: 313.24'

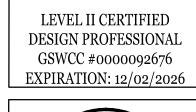
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SHEET C.410

STORM PROFILES

06-20-2	PROJECT # ENG2051			
DRAWN BY:	APPROVE CW:		SCALE: 1" = 30'	

REV.	DATE:	DESCRIPTION:
1	08-07-25	REVISED PER COUNTY COMMENTS
2	09-12-25	REVISED LIMITS OF CONSTRUCTION

Utilities Protection Center, Inc. Know what's **below.**

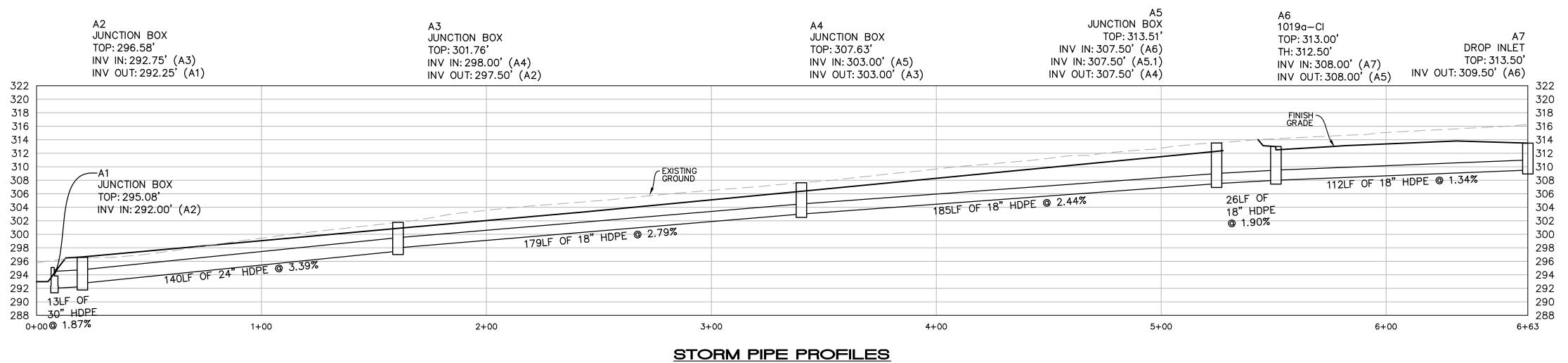
Call before you dig.

GRAPHIC SCALE (IN FEET)

1 inch = 30 ft.

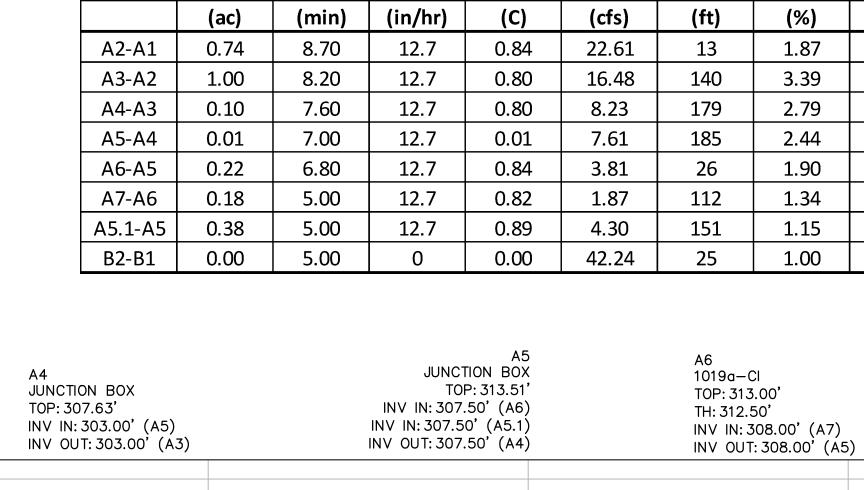
100-YR STORM CHART

Drainage Runoff Flow PIPE													
		_							_		•		
PIPE ID	Area	Тс	Ì	Coeff	Rate	Length	Slope	Size	n-value	Material	Capacity	Vel Ave	Inlet ID
	(ac)	(min)	(in/hr)	(C)	(cfs)	(ft)	(%)	(in)			(cfs)	(ft/s)	
A2-A1	0.74	8.70	12.7	0.84	22.61	13	1.87	30	0.012	HDPE	60.76	6.73	A2
A3-A2	1.00	8.20	12.7	0.80	16.48	140	3.39	24	0.012	HDPE	45.20	6.38	А3
A4-A3	0.10	7.60	12.7	0.80	8.23	179	2.79	18	0.012	HDPE	19.00	5.28	A4
A5-A4	0.01	7.00	12.7	0.01	7.61	185	2.44	18	0.012	HDPE	17.76	5.54	A5
A6-A5	0.22	6.80	12.7	0.84	3.81	26	1.90	18	0.012	HDPE	15.67	3.59	A6
A7-A6	0.18	5.00	12.7	0.82	1.87	112	1.34	18	0.012	HDPE	13.16	2.81	A7
A5.1-A5	0.38	5.00	12.7	0.89	4.30	151	1.15	18	0.012	HDPE	12.20	3.86	A5.1
B2-B1	0.00	5.00	0	0.00	42.24	25	1.00	30	0.012	HDPE	44.43	9.32	B2



(Alignment - (1)) SCALE: H: 1"=30

V: 1"=10



B2 OCS TOP: 295.50' HEADWALL INV OUT: 291.00' (B1) INV IN: 290.75' (B2) 302 300 300 298 296 294 294 292 292 290 290 27LF OF FINISH GRADE 288 288 30" HDPE 286 © 0.94% 2+00 2+11 0+00 STORM PIPE PROFILES (STORM LINE B & POND X-SEC) SCALE: H: 1"=30 V: 1"=10

POND DETAILS &

DATE:	PROJECT#
06-20-2025	ENG2051

JUNCTION BOX

INV IN: 307.50' (A6)

INV IN: 307.50' (A5.1)

INV OUT: 307.50' (A4)

151LF OF 18" HDPE @ 1.15%

STORM PIPE PROFILES

(STORM LINE 5)

SCALE: H: 1"=30

V: 1"=10

TOP: 313.51'

316

,314

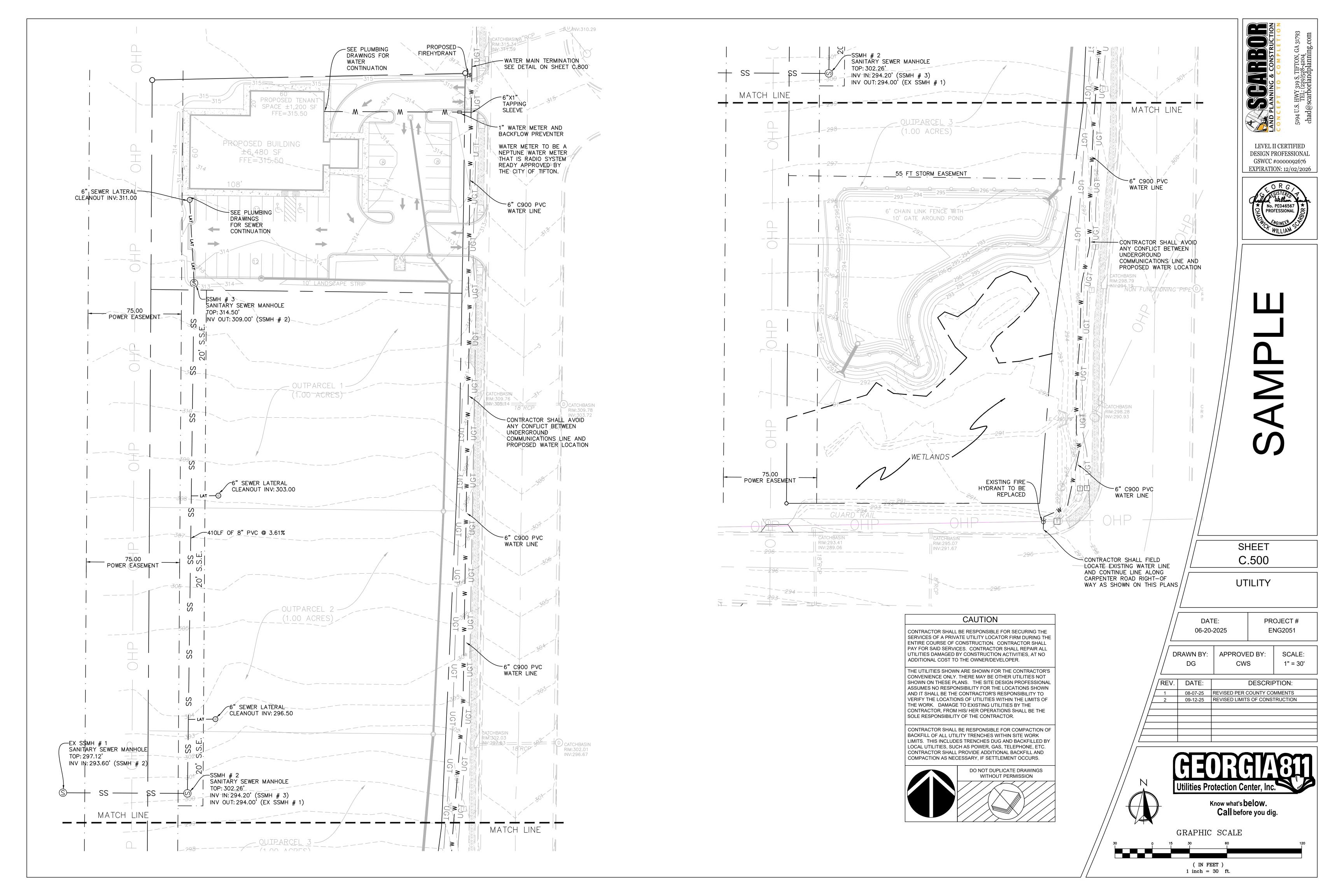
308

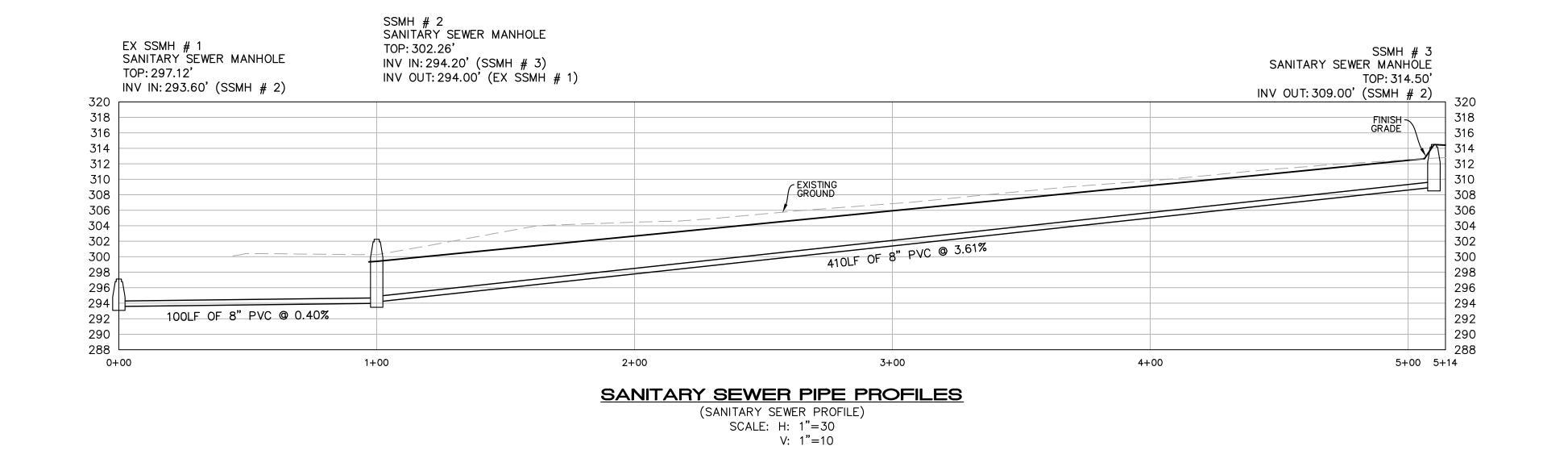
306

304

[⊥] 302

1+51



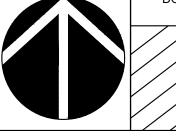


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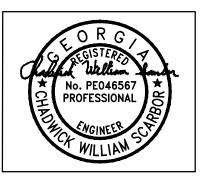
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DO NOT DUPLICATE DRAWINGS WITHOUT PERMISSION



LEVEL II CERTIFIED
DESIGN PROFESSIONAL
GSWCC #0000092676
EXPIRATION: 12/02/2026



SAMPLE

SHEET C.510

SANITARY SEWER PROFILES

DATE: 06-20-2025	PROJECT # ENG2051		

//	DRAWN BY:	APPROVED BY:	SCALE:
	DG	CWS	1" = 30'

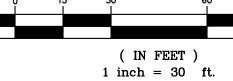
	/	/REV.	DATE:	DESCRIPTION:
	/_	1	08-07-25	REVISED PER COUNTY COMMENTS
/	1	2	09-12-25	REVISED LIMITS OF CONSTRUCTION
/	Γ			
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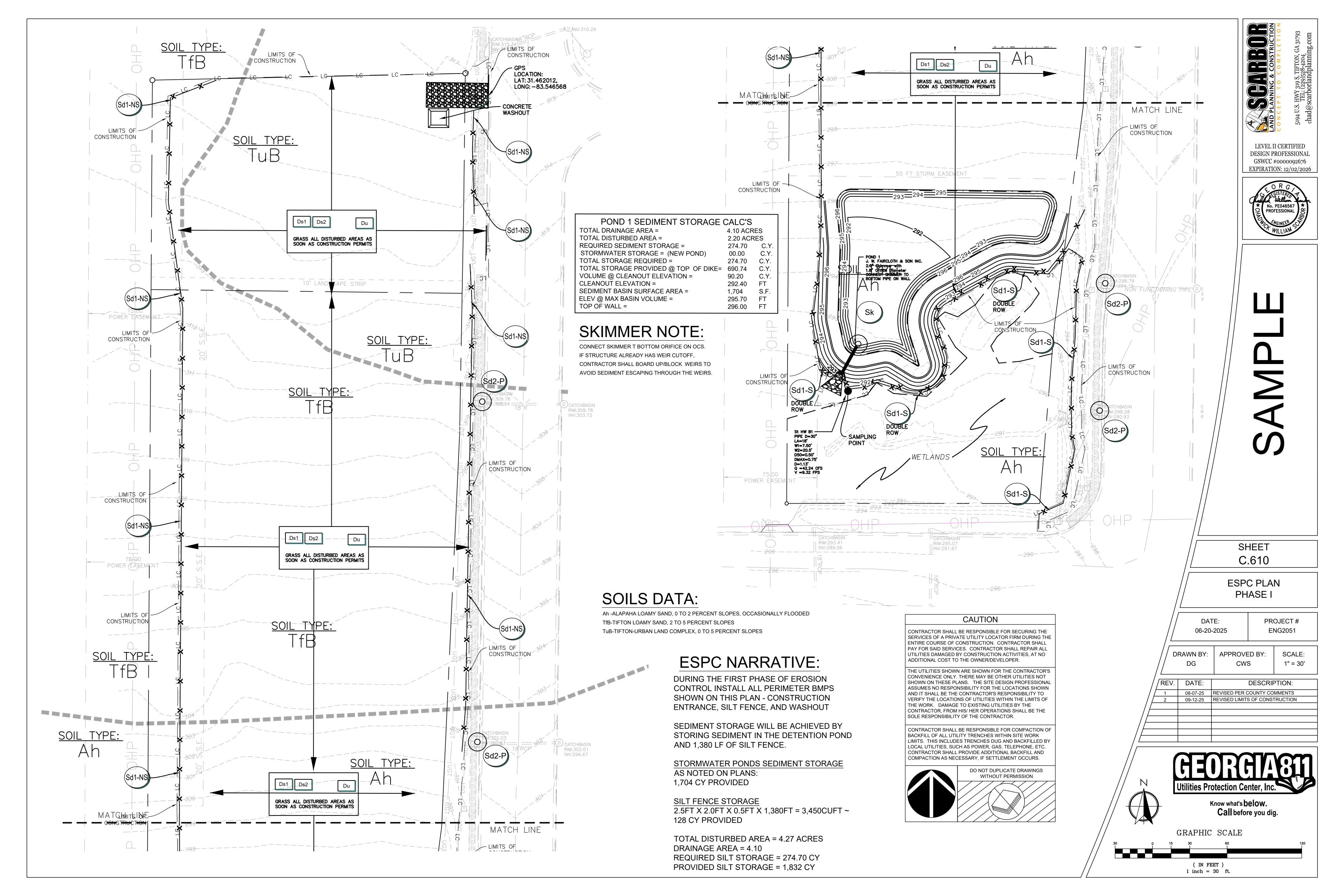


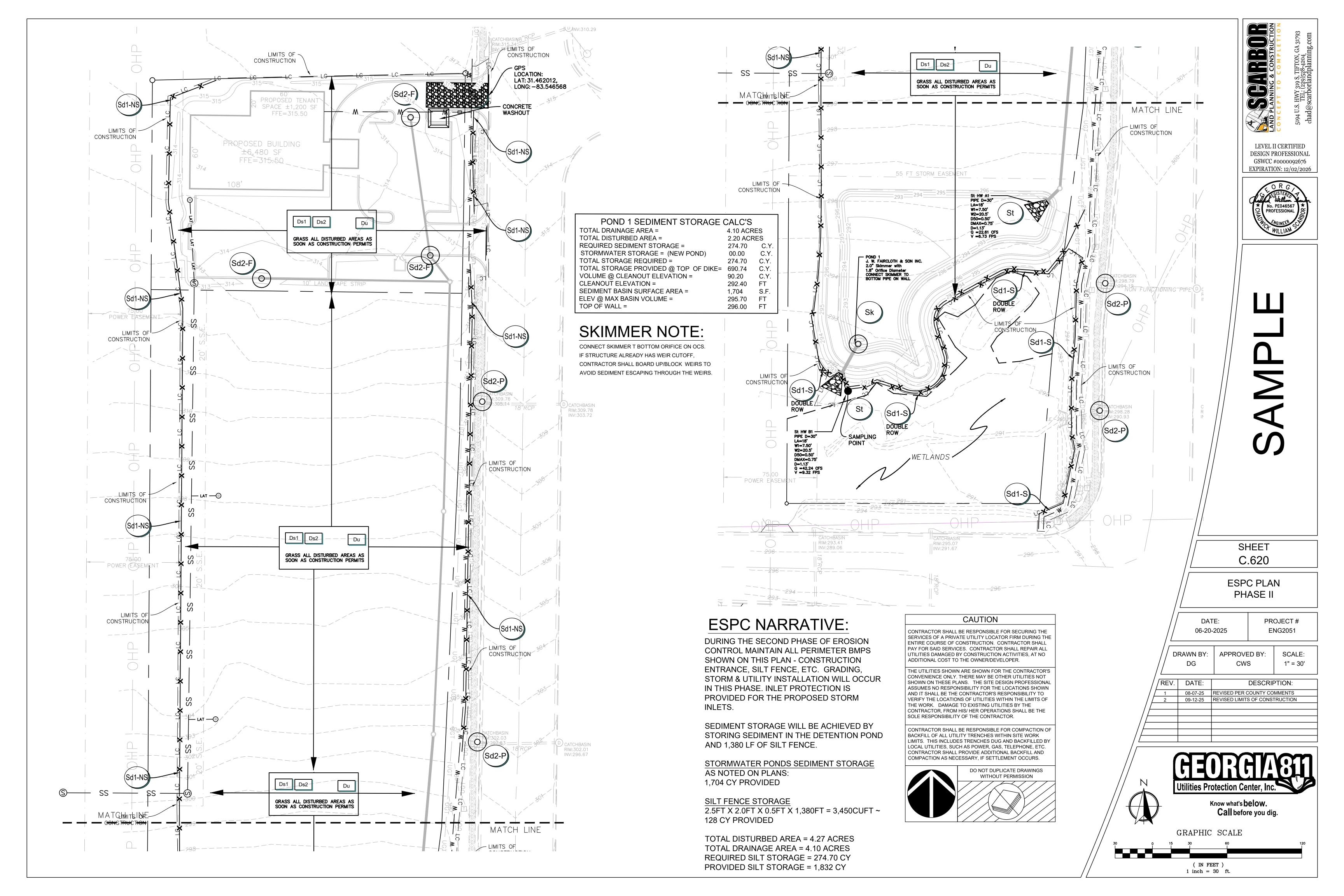
Jtilities Protection Center, Inc.

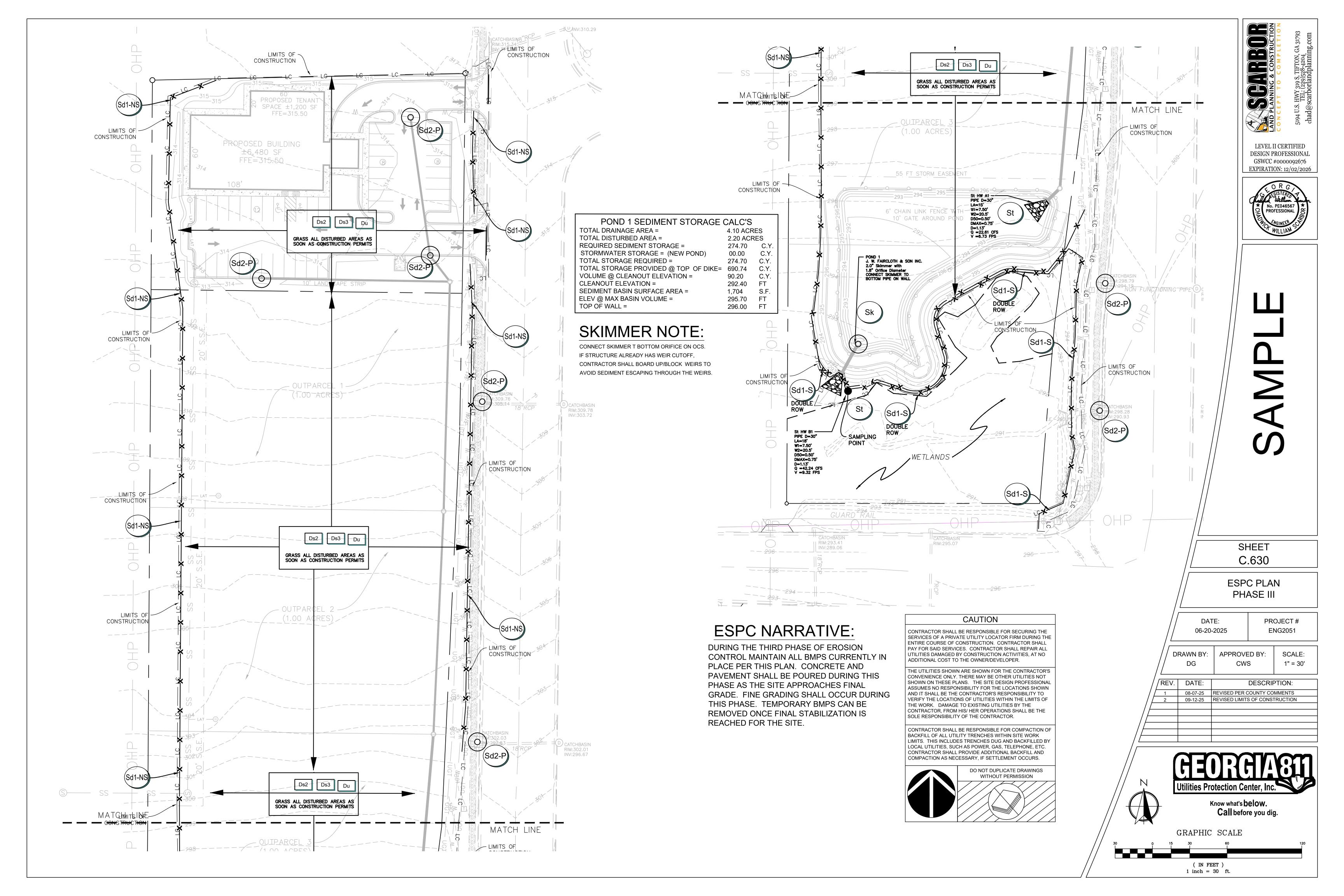
Know what's **below. Call** before you dig.

GRAPHIC SCALE









		EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST STAND ALONE CONSTRUCTION PROJECTS		\Z/
		SWCD:		GSWCC
		Project Name:NAME Address:ADDRES		CHADWICK WILLIAM SCAR 0000092676
		Local Issuing Authority: TIFT COUNTY Date on Plans: 06-20-2025 Name & Email of person filling out checklist: CHAD SCARBOR / chad@scarborlandplanning.com		LEVEL II CERTIFIED DESIGN PRO
Plan	Included			
Page #	Y/N	TO BE SHOWN ON ES&PC PLAN		
C640	Υ	1. The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the		CLIENT
ALL		land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed) 2. Level II certification number issued by the Commission, signature and seal of the certified design professional.		(5) CLIENT
ALL		(Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)		
N/A	N/A	3. Limit of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the		
		request to disturb 50 acres or more a any one time, the plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist. *		
CCAO		(A copy of the written approval by EPD must be attached to the plan for the plan to be approved)		
C640	Y	4. The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.5. Provide the name, address, email address and phone number of primary permittee.		
C640	Y	6. Note total and disturbed acreage of the project or phase under construction.		
C610-630	_	7. Provide the GPS of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.		SITE DESCRIPTION
ALL	Υ	8. Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.	(9)	LOCATION: LOCATION
C640	Υ	9. Description of the nature of construction activity.		200,1110111
C640	Y	10. Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.11. Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be		CRITICAL AREAS:
0040		affected.		DESCRIPTION
C640	Υ	12. Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 20 of		DECORN HOW
		the the permit.		
C640	Υ	13. Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs		
C640		and sampling to meet permit requirements as stated on Part IV page 20 of the permit.*		
C040	<u> </u>	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." * in accordance with Part IV.A.5 page 26 of the permit. *		
C640	Υ	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."		^ \// 6 \\\ \\ \\
C640	N/A	16. Provide a description of any buffer encroachments and indicate whether a buffer variance is required.		(10) VICINITY M
C640	Υ	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." *		N.T.S.
C640	Υ	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." *		11.1.5.
C640	Υ	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."		
C640	Υ	20. Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide		
CCAO		for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source." 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		
C640	<u> </u>	seeding."		
N/A	N	22. Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed		
		as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that		
		will be used for those areas of the site which discharge to the Impaired Stream Segment. *		
N/A	Υ	23. If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to		
C640		submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. * 24. BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is		
0040		prohibited. *		
C640	Υ	25. Provide BMPs for the remediation of all petroleum spills and leaks.		
C640	Υ	26. Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction		
C640		operations have been completed.		
C650	Y	27. Description of practices to provide cover for building materials and building products on site.*28. Description of the practices that will be used to reduce the pollutants in storm water discharges.*		
C650	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		
3333		sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).		
C650	Υ	30. Provide complete requirements of inspections and record keeping by the primary permittee. *		
C650	Υ	31. Provide complete requirements of sampling frequency and reporting of sampling results. *		
C650	Y	32. Provide complete details for retention of records as per Part IV.F. of the permit. * 33. Description of analytical methods used to collect and analyze the samples from each location. *		
C650	Y	34. Appendix B rationale for NTU values at all outfall sampling points where applicable. *		
C650	Y	35. Delineate all sampling locations, 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		LOCATION MA
		perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For Construction sites where there will be no mass grading and		LOCATION WA
		the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the plan may combine all of the BMPs into a	(12)) "I certify under p
ALL	Y	single phase. * 37. Graphic scale and north arrow.	\12	described herein
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.	12	"I certify that the
		1 inch = 100 ft or Flat 0-2% 0.5 or 1	(13)	appropriate and c
		larger scale Rolling 2 - 8% 1 or 2		Water Quality Cor
		Steep 8% + 2, 5 or 10		(Manual) published
C660	Υ	39. Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design		year in which the
		Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance		water(s) or the sa
		Document found at www.gaswcc.org		management pract
C660	<u> </u>	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. *		the General NPDE
C660	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		III aantitus tlaat tla
_ C000	INIA	Authority. Clearly note and delineate all areas of impact.		"I certify that the monitoring of: (a)
C660	N/A	42. Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.		USGS topographi
C660	Υ	43. Delineation and acreage of contributing drainage basins on the project site.		water bodies, or
C660	N/A	44. Provide hydrology study and maps of drainage basins for both the pre- and post- developed conditions. *		water bodies, or water body is not
C660	Y	45. An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. 46. Storm-drain nine and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water.		utilizing the factor
C660		46. Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.		the turbidity of ea
C610	Υ	47. Soil series for the project site and their delineation.		increase in the tu
C610-C630) Y	48. The limits of disturbance for each phase of construction.		^
C660	Υ	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		Chadwick
		inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until		SIGNATURE C
		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	(14	7-DAY VISIT STATEMENT
		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	\14	
		the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments,		"The january is a second
		permittees are required to utilize outlet structures that withdraw water from the surface, unless feasible. If outlet structures that withdraw water from the		"The primary perm the Erosion, Sedi
		surface are not feasible, a written justification explaining this decision must be included in the Plan.		approved by EPD
C660	<u> </u>	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		and certify the ins
CEED		uniform coding symbols from the Manual, Chapter 6, with legend. 51. Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and		within 7 days afte
C660		Sediment Control in Georgia.		installed and are t
C660		52. Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching		the inspection to

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.

would be N/A

* 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

Effective January 1, 2025

"The primary permittee and tertiary permittee(s) must retain the design professional who prepared the Erosion, Sedimentation and Pollution Control Plan, or an alternative design professional approved by EPD in writing. 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. 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 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 unless weather related site conditions are such that additional time is required. This requirement of this permit is not applicable to tertiary permittes with a Plan(s) for a typical individual lot(s), if the total land disturbance within the construction site is less than five (5) acres and the total land disturbance within each individual lot is less than one (1) acre."

2

CHADWICK WILLIAM SCARBOR

LEVEL II CERTIFIED DESIGN PROFESSIONAL

SITE DESCRIPTION AND LOCATION:

(10) VICINITY MAP

(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

OWNER/PRIMARY

PERMITTEE

CLIENT

24 HR CONTACT:

FINAL DISTURBANCE AREA = ±4.27 AC.

TOTAL SITE AREA- **±5.00** AC.

THE SAMPLING LOCATION DRAINS TO THE SOUTHWEST OF THE SITE WHERE IT

THERE ARE NO STATE WATERS LOCATED WITHIN 200 FEET OF THE PROJECT SITE.

(11) RECEIVING WATERS

STATE WATERS

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

"I certify under penalty of law that this Plan was prepared after a site visit to the locations

"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

management practices and sampling methods is expected to meet the requirements contained in

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the

water bodies, or (b) where any specific identified all perennial and intermittent streams and other

utilizing the factors required in the General NPDES Permit No. GAR 100001, that the increase in

06/20/25

DATE

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 body is not proposed to be sampled, I have determined in my professional judgment,

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."

water(s) or the sampling of the storm water outfalls and that the designed system of best

described herein by myself or my authorized agent, under my supervision"

the General NPDES Permit NO. GAR 100001."

Chadwick William Searbor

SIGNATURE OF PLAN PREPARER

ENTERS A TRIBUTARY OF COW-HOUSE BRANCH

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."

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

"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."

"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

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

No construction activities will discharge storm water into an Impaired Stream (22) Segment, or within I linear mile upstream of and within the same watershed as, (23) any portion of an Biota Impaired Stream Segment, therefore there will be no need for an If a TMDL Implementation Plan for sediment

CONCRETE WASHOUT

T 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.

A. Best management practices for prevention of petroleum spills:

- 25/- 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
- 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.

THE MEASURES THAT WILL BE INSTALLED DURING THE 26 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 sheet flow in the parking lot where it will enter storm inlets which will route storm water off the site to the stormwater system along US-19. Onsite BMPs from the GSWMM installed to treat water quality will help control pollutants during construction as well as after construction operations have been completed.

(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.



LEVEL II CERTIFIED **DESIGN PROFESSIONAL** GSWCC #0000092676 EXPIRATION: 12/02/2026



SHEET C.640

NPDES NOTES

DATE: PROJECT# 06-20-2025 ENG2051

	DRAWN BY:	APPROVED BY:	SCALE:
/ <u>L</u>		CVV3	N.1.3.

/REV. DATE: **DESCRIPTION:** 08-07-25 REVISED PER COUNTY COMMENTS 09-12-25 REVISED LIMITS OF CONSTRUCTION



$\stackrel{\textstyle \sim}{}_{28}$ <u>DESCRIPTION OF THE PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES.</u>

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.



	GEN	ERAL CONSTRUCTION SCI	HEDU	JLE_							
	BEGI	N CONSTRUCTION AUG-2025		MON	TH 1			\rightarrow	MON	TH 8	
	1	INSTALL SEDIMENT CONTROL DEVICES									
PHASE I	2	CLEARING, DEMO AND GRADING									
	3	TEMPORARY GRASSING									
	4	MAINTAIN EROSION CONTROL DEVICES						 			
PHASE II (INTER.)	5	GRADING									
	6	ASPHALT — BUILDING									
PHASE III (FINAL)	7	FINAL AND PERMANENT GRASSING									,
PH4	8	CLEAN UP									

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

PERMITTEE REQUIREMENTS. . 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. GAR I 0000 | 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.

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

Sampling Requirements.

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

Sampling Requirements shall include the following:

Determine sampling locations:

I) 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 quidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD.

SAMPLE POINT #1

5). Perimttee 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.

'). 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

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

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 copy of all Notices of Intent submitted to EPD;

. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;

. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;

A copy of all sampling information, results, and reports required by this permit; . A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;

A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and

q. Daily rainfall information collected in accordance with Part IV.D.4.a.(2) of this permit.

. 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 copy of all Notices of Intent submitted to EPD;

p. 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.

:. 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

. 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 copy of all Notices of Intent submitted to EPD:

o. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;

. 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; . A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;

. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and

q. Daily rainfall information collected in accordance with Part IV.D.4.a.(2) of this permit.

. 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.

$\stackrel{\textstyle \checkmark}{\cancel{34}}$ 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 W	ATER DRAINAG	E AREA, SQUAR	E MILES		
		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
Site	10.01-25	50	100	100	200	300	500	750	750
Site Size, acres	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



Sampling Frequency:

I) 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 qualitying 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

(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;

(e). Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.

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

1. Certification statement that sampling was conducted as per the Plan.

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 C.610, C.620, and

> SHEET C.650

NPDES NOTES

DATE: PROJECT # 06-20-2025 ENG2051

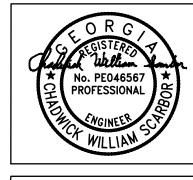
APPROVED BY: SCALE: DRAWN BY: **CWS** N.T.S.

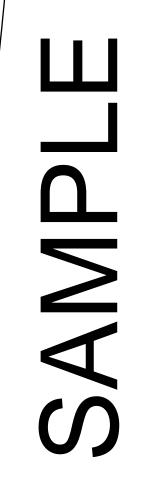
REV. DATE: **DESCRIPTION:** 08-07-25 REVISED PER COUNTY COMMENTS 09-12-25 REVISED LIMITS OF CONSTRUCTION



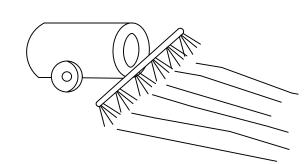








DUST CONTROL



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

<u>PERMANENT VEGETATION</u>. 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

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

Du DUST CONTROL

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, SHALI 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.
- 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 AFTE
- AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.



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

- I. 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.

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

- I. 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 IOI 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 IA or Level IB 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
- 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 electrnoically 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.

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.

THERE ARE NO STATE WATERS ON OR WITHIN 200' OF THIS SITE. BUFFERS DELINIATED

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

There are on-site wetlands located on and within 200 feet of the project site. There are no State waters located on and within 200 feet of the project site.

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

Refer to SHEET C.610 "ESPC PHASE I" for delineation and acreage of contributing drainage basins within and off-site the project.

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 RUNOFF COEFFICIENT (CN): <u>57</u>
WEIGHTED POST—CONSTRUCTION RUNOFF COEFFICIENT (CN): **86**

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

Refer to SHEET (C.620) "ESPC PHASE II" for location and sizing table for all storm water discharge points located within the project.

Soil series for the project site and their delineation.

Refer to SHEET (C.610) "ESPC PHASE I" for soil series delineation and classification

The limits of disturbance for each phase of construction.

-

Total area = $\underline{5.00}$ AC. Developed area = $\underline{1.00}$ AC (Site will be developed in one phase) Disturbance area = $\underline{2.20}$ AC.

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

SEDIMENT STORAGE WILL BE ACHIEVED BY A STORMWATER POND WITH A SLIMMER AND SILT FENCE.
STORMWATER POND STORAGE

AS NOTED ON PLANS: 274.70 CY REQUIRED

1,832 CY PROVIDED

A STORMWATER POND WITH A SLIMMER IS BEING USED AS SEDIMENT STORAGE INSTEAD OF AN Sd3 DUE TO THE PRACTICALITY OF CONSTRUCTING THE OUTLET CONTROL STRUCTURE IN STEP ONE OF CONSTRUCTION. ALSO, THE CUT DIRT FROM THE POND WILL BE USED IN GRADING THE SITE. STORING IN A POND ACHIEVES THE SAME FUNCTION AS STORING IN AN Sd3.

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 STRUCTURAL PRACTICES CODE PRACTICE DETAIL CODE PRACTICE DETAIL structure protecting a stream or watero A crushed stone pad located at the construction site exit to provide a place for A rough soil surface with horizontal depressions on a contour or slopes left roughened condition after grading. removing mud from tires thereby protectin A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on—site vehicle transportation routes. the water (it may also be referred to as floating boom, silt barrier, or silt curtain) soil, storing it, then spreading it over the disturbed area after completion of flow around a construction site while a permanent structure is being constructed. An earth channel or dike located above, b or across a slope to divert runoff. This may be a temporary or permanent structure. other material designed to safely conduct surface runoff down a slope. This is tempo and inexpensive. A paved chute, pipe, sectional conduit or similar material designed to safely conduc surface runoff down a slope. A temporary stone barrier constructed a storm drain inlets and pond outlets. Rock filter baskets which are hand-placed

channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.

A structure to convert concentrated flow water into less erosive sheet flow. This

A permanent or temporary stone filter dar installed across small streams or

A wall installed to stabilize cut and fill slop where maximum permissible slopes are not obtainable. Each situation will require speci

A device or structure placed in front of a

An impounding grea created by excavating

A small temporary pond that drains a disturbed area so that sediment can sett out. The principle feature distinguishing a

A buoyant device that releases/drains wat

permanent stormwater detention pond outle structure to serve as a temporary sediment

	V	EGETAT	IVE P	RACTICES
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE	4600		Strip of undisturbed original vegetation, enhanced or restored existing vegetation the reestablishment of vegetation surroun an area of disturbance or bordering strea
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	**************************************	Cs	Planting vegetation on dunes that are der artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not 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)	10 mg	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 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.
FI-Co	FLOCCULANTS AND COAGULANTS		FI-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 ar repair small streambank erosion problems.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent ero and establish temporary or permanent vegetation on steep slopes, shore lines, o channels.
	TACKITITOC AND			Substance used to anchor straw or hay

mulch by causing the organic material to bind together.

GaSWCC (Amended - 2013

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.

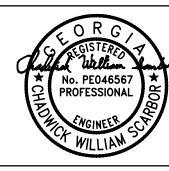
Refer to Sheets C.660 - C.710" ESPC DETAILS " for detailed drawings for all structural practices that meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.

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 C.710, "VEGETATIVE EROSION DETAILS" for all vegetative plan noting all temporary and permanent vegetative practice including species, planting dates and seeding, fertilize, lime and mulching



LEVEL II CERTIFIED
DESIGN PROFESSIONAL
GSWCC #0000092676
EXPIRATION: 12/02/2026



SAM

SHEET C.660

NPDES NOTES

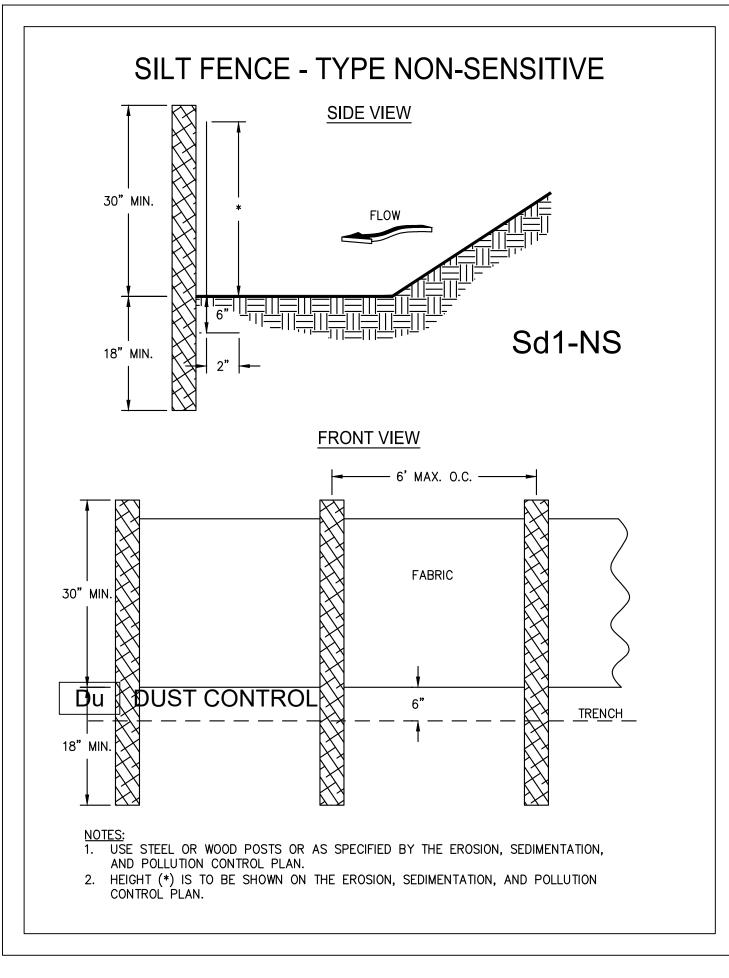
DATE: PROJECT # 06-20-2025 ENG2051

DRAWN BY: APPROVED BY: SCALE: N.T.S.

REV. DATE: DESCRIPTION:

1 08-07-25 REVISED PER COUNTY COMMENTS
2 09-12-25 REVISED LIMITS OF CONSTRUCTION





SILT FENCE

NAME EVERY 100 FEET.

FABRIC, SEE DETAIL.

THE MANUFACTURER SHALL HAVE

THE MANUFACTURER AND FABRIC

THE TEMPORARY SILT FENCE SHALL BE INSTALLED ACCORDING TO THIS

SPECIFICATION, AS SHOWN ON THE

ENGINEER. FOR INSTALLATION OF THE

POST INSTALLATION SHALL START AT

THE CENTER OF THE LOW POINT (IF APPLICABLE) WITH THE REMAINING

POSTS SPACED 4 FEET APART FOR

POST SHALL BE USED WITH TYPE S

TYPE C SILT FENCE. ONLY STEEL

AND TYPE NS SILT FENCE. POSTS

SHALL BE 4' IN LENGTH, 1.3 LBS/ FT.

SENSITIVE AREAS, TWO ROWS OF

TYPE C SILT FENCE BACKED BY

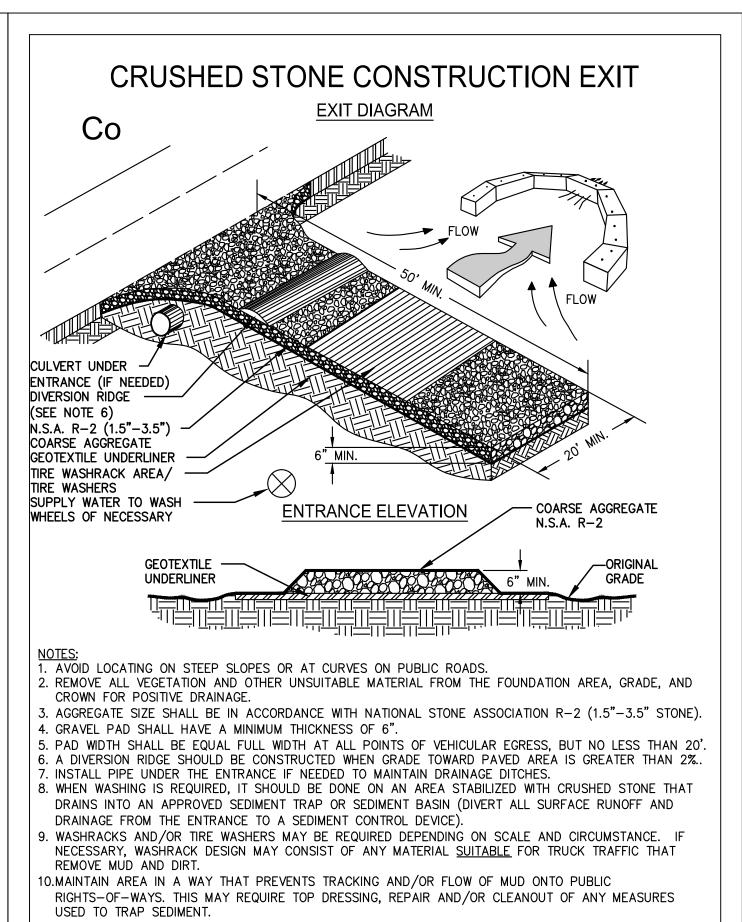
HAYBALES SHALL BE USED.

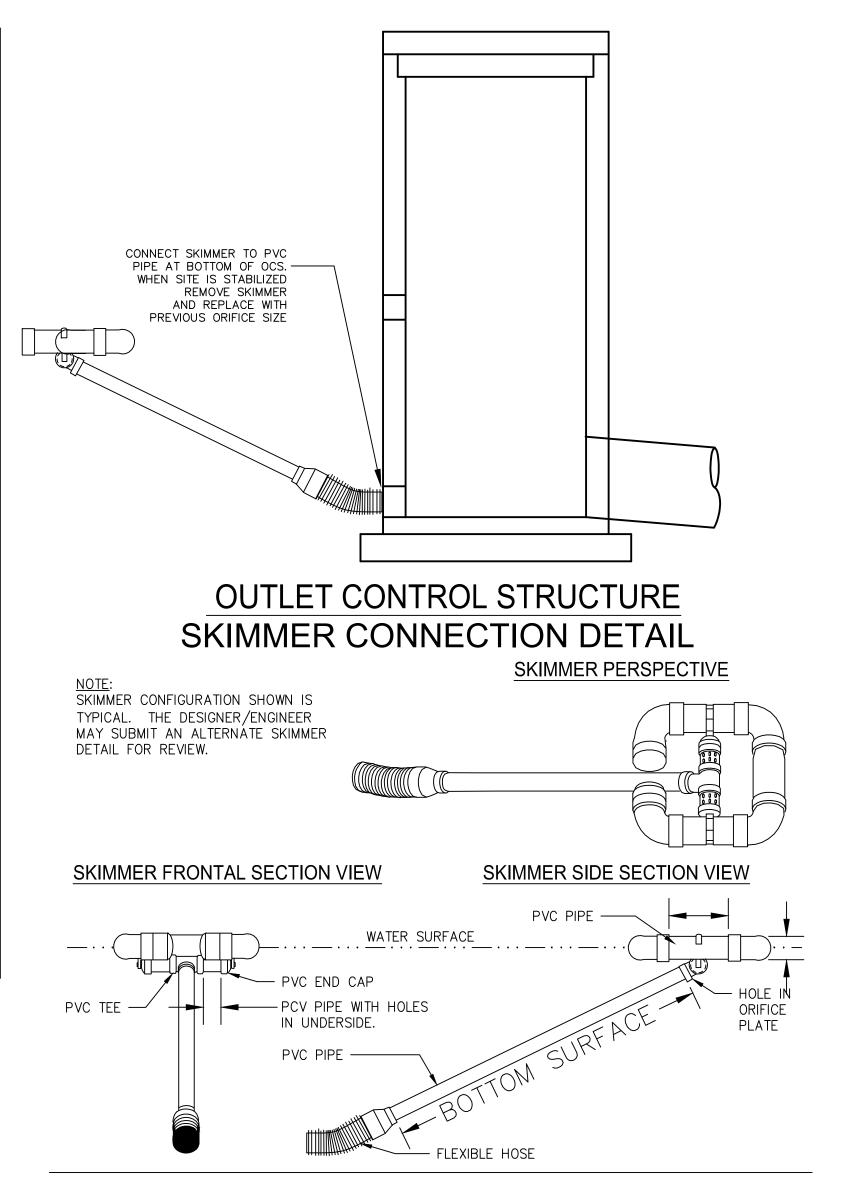
TYPE C SILT FENCE OR ONE ROW OF

ALONG STREAM BUFFERS AND OTHER

PLANS OR AS DIRECTED BY THE

EITHER AN APPROVED COLOR MARK YARN IN THE FABRIC OR LABEL THE **FABRICATED SILT FENCE WITH BOTH**





MANUFACTURER'S NAME = FAIRCLOTH & SON INC. SKIMMER SKIMMER FOR TEMPORARY SEDIMENT PONDS

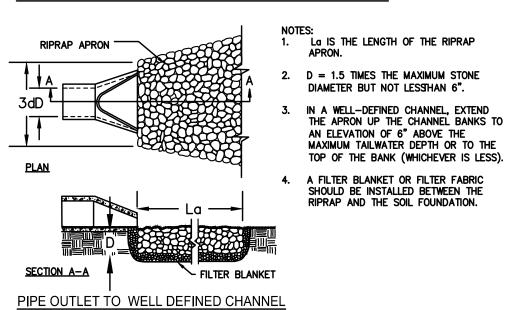
FLOW

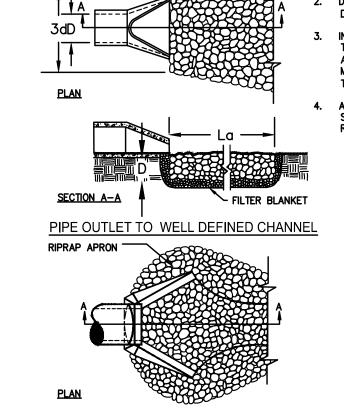
SECTION B-B

PAVEMENT:

GUTTER-

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL





CURB INLET PROTECTION -CATCH BASIN ONCE PAVEMENT HAS BEEN INSTALLED, A -CURBING 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 8" CONCRETE BLOCK WRAPPED IN DETAIL. ANOTHER METHOD USES GRAVEL FILTER FABRIC MESH, OR EQUIVALENT MATERIAL. — 4" GAP BETWEEN INLET AND FILTER

CATCH BASIN

Sd2-P

(Sk)

BAGS CONSTRUCTED BY WRAPING DOT #57 STONE WIHT FILTER FABRIC, WIRE, PLASTIC 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.

CURB INLET PROTECTION

CONTINUOUS

Know what's **below.**

BALES SHALL BE PLACED ON THE CONTOUR PER PLANS AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT 2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF

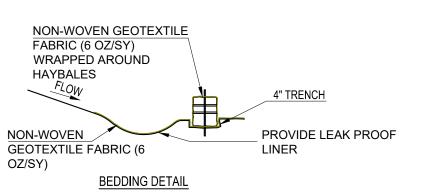
(4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR REBAR DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARDS THE

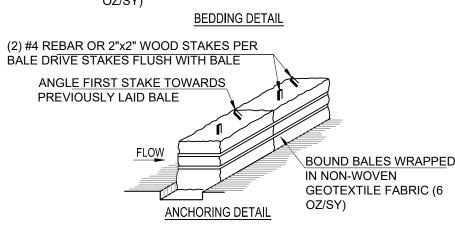
PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE

4. INSPECTION SHALL BE FREQUENT AND REPAIR AND/OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR PURPOSE SO AS NOT TO BLOCK OR IMPEDE STORM

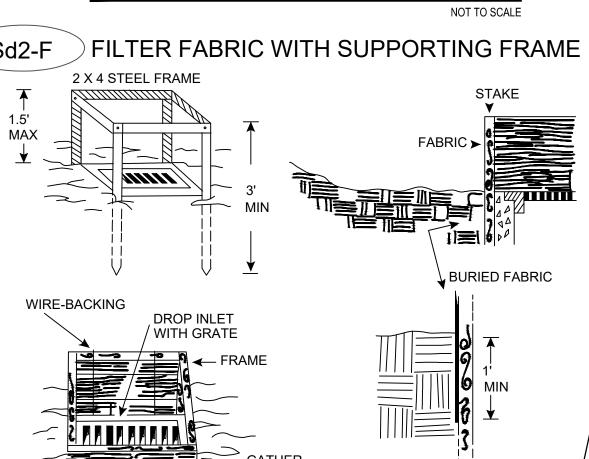
FLOW OR DRAINAGE. CONTRACTOR SHALL PROVIDE CLEARLY POSTED SIGNAGE INDICATING WASHDOWN AREA.

NO CONCRETE DRUM WASHOUT IS ALLOWED ON SITE.





CONCRETE WASHDOWN AREA



EXCESS

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

SECURELY DRIVEN IN TO THE GROUND, APPORIMATELY 18 INCHES

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

BACKFILLED WITH WITH CRUSHED STONE OR COMPACTED SOIL.

FABRIC AND WIRE SHALL BE SECURELY FASTENED TO THE POSTS,

DEEP. THE FABRIC SHALL BE ENTRENCHED 12 INCHES AND

OR WRAPPPED TOGETHER AROUND A POST TO PROVIDE A

FABRIC BARRIER AROUND THE INLET.

AT CORNERS

SHEET C.700

ESPC DETAILS

LEVEL II CERTIFIED

DESIGN PROFESSIONAL

GSWCC #0000092676

EXPIRATION: 12/02/2026

DATE: PROJECT# 06-20-2025 ENG2051

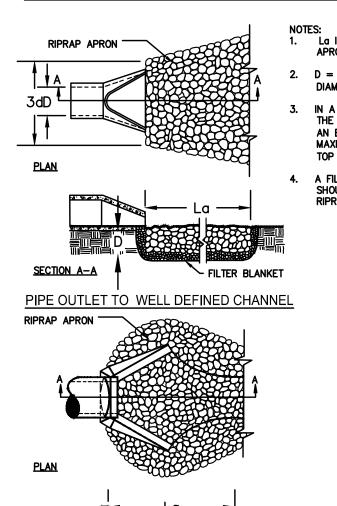
AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUN OF 18 INCHES DRAWN BY: APPROVED BY: SCALE: **CWS** N.T.S.

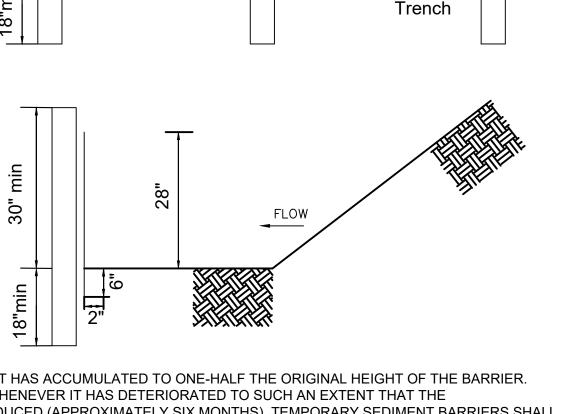
DATE: **DESCRIPTION:** 08-07-25 REVISED PER COUNTY COMMENTS 09-12-25 REVISED LIMITS OF CONSTRUCTION



Call before you dig.

RIPRAP OUTLET PROTECTION (St)





Wire Back Fabric

.0

MAINTENANCE SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS). TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

(Sd1-S) SILT FENCE TYPE (SENSITIVE)

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.

STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. MULCH MAY BE ANCHORED BY MECHANICALLY PRESSING INTO SURFACE. IF SPREAD WITH BLOWER EQIPMENT, MULCH SHALL BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1)--100 GAL. ASPHALT + 100 GAL. WATER PER TON OF MULCH. NETTING SHALL BE USED TO ANCHOR WOOD WASTE AND CHIPS. POLYETHYLENE SHALL BE TRENCHED IN AT EDGES.

MULCHING

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

	Broad	cast	Resource	Plar	iting Da	ates by	Reso	urce A	\reas								
Species	Rates 2/-	PLS 3/	Area 4/								nting [Dates					Remarks
	Per	Per			id lines					,							
	<u>Acre</u>	1000			ed lines			rmissi	ble								
		sq.ft		but	nargin T⊨	_	ŕ	T							_	1	
BARLEY				- '-	F	М	Α	M	J	,	A	S	0	N	D	Н	
(Horduem vulgare)	# # # # # # # # # # # # # # # # # # #		P									-					
alone	3 bu.	3.3 lb.															14,000 seed per pound. Winterhardy. Use on
	(144 lbs.)												l				productive soils.
in mixture	1/2 bu.	0.6 lb.											1				
	(24 lbs.)			J	F	М	A	м	J	J	۾ ا	s	0	N	l D		
LESPEDEZA, ANNUAL								-									
(Lespedeza striata)			P			-	1	ŀ									200,000 seed per pound. May
alone	40 lbs.	0.9 lb.														1	volunteer for several years. Use inoculant EL.
in mixtures	10 lbs.	0.2 lb.															OSE INOCUIANT EL.
LOVEGRASS, WEEPING				J	F	М	Α	М	J	J	_	s	0	N	D	Н	
(Eragrostis curvula)	8 8 8 9		P					╛.									
alone	4 lbs.	0.1 lb.						1									1 ,500,000 seed per pound . May last for several years. Mix
aione	4 IDS.	U.I ID.															with Sericea lespedeza.
in mixtures	2lbs.	0.05 lb.		Ī	F	М	A	M	т	, ,	م	s	0	N	l p		
MILLET, BROWNTOP				ľ				1	Ť	Ť			ľ	Ť		П	
(Panicum fasciculatum)			Р				ļ										137,000 seed per pound .
alone	40 lbs.	C 0.9 lb.															Quick dense cover. Will provid too much competition in mixtures if seeded at high
in mixtures	10 lbs.	0.2 lb.						Ì					İ	ĺ		i i	rates.

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

	Broad	lcast	Resource	Plan	ting C	ates b	y Reso	urce	Area	as						
Species	Rates 2/	- PLS 3/	Area 4/							Plar	ting C	ates				Remarks
	Per	Per		(Soli	id line	s indic	ate op	im ur	n da	tes,			~			
	Acre	1000		dotte	d line	s indic	ate pe	mis	sible	•						
		sq.ft.		butr	nargii	nal dat	es.)									
				J	F	М	А	м	J	J	А	s	0	N	D	
MILLET, PEARL					1									-	\vdash	88,000 seed per pound. Quick
(Pennesetum glaucum)			Р				•	\vdash								dense cover. May reach 5 feet
																in height. Not recommended
alone	50 lbs.	1.1 lb.														for mixtures.
				J	F	М	Α	М	J	J	Α	s	0	N	D	
OATS																
(Avena sativa)			Р									_				13,000 seed per pound. Use on productive soils. Not as
alone	4 bu. (128 lbs.)	2.9 lb.														winterhardyas rye or barley.
in mixtures	1 bu. (32 lbs.)	0.7lb.		J	F	м	А	м	J	J	A	s	0	N	D	
RYE	, ,															
(Secale cereale)			P									 -			1 1	18,000 seed per pound. Quick cover. Drought tolerant and
alone	3 bu. (168 lbs.)	3.9 lb.														winterhardy.
in mixture	1/2 bu.	0.6 lb.														
	(28 lbs.)			J	F	М	Α	М	J	J	Α	s	0	N		
RYEGRASS, ANNUAL (Lolium temulentum)			P												- 1	227,000 seed per pound.
alone	40 lbs.	0.9 lb.		J	l F	M	А	M	J	J	l A	s	0	N	Ы	Dense cover. Very competitive and is <u>not</u> to be used in
SUDANGRASS				Ť	Ė	1	-	ļ.,,	,	-	-	-	ľ			55,000 seed per pound. Good
(Sorghum Sudanese)			Р													on droughty sites. <u>Not</u> recommended for mixtures.
alone	60 lbs.	1.4lb	1	1	ĺ	İ		ĺ			Ì	ĺ	ĺ	ĺ	i i	

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

	Broad	lcast	Resource	Plar	nting [Dates	by Re	sourc	e Are	as							
Species	Rates 2/- Per <u>Acre</u>	PLS 3/ Per 1000 sq. ft.	Area 4/	(Sol	do	tted li	icate o nes in	dicate	ım da			Dates		-			Remarks
				J	F	М	Α	М	J	J	Α	s	0	N	D		
WHEAT																	
(Triticum Aestivum)			Р								İ						15,000 seed per pound .
alone	3 bu. (180 lbs.)	4.1 lb.	5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8														
in mixtures	1/2 bu.	0.7 lb.													1 .	1	
	(30 lbs.)																

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

STABILIZATION WITH TEMPORARY SEEDING

Fertilizer Requirements

	ANAL VOIC OR		N
YEAR	EQUIVALENT	RATE	TOP DRESSING
			RATE
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
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.	-
First	10-10-10	1300 lbs./ac. 3/	-
Second	10-10-10	1300 lbs./ac. 3/	-
Maintenance	10-10-10	1100 lbs./ac.	-
First	20-10-5	one 21-gram pellet	-
		per seedling placed	
		in the closing hole	
First	0-10-10	700 lbs./ac.	-
Maintenance	0-10-10	700 lbs./ac. 4/	
First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/
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.
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.	
	First Second Maintenance First Second Maintenance First Second Maintenance First First Maintenance First First Maintenance First First Second Maintenance First Second	N-P-K First 6-12-12 Second 6-12-12 Maintenance 10-10-10 First 6-12-12 Second 0-10-10 Maintenance 0-10-10 First 10-10-10 Maintenance 10-10-10 First 20-10-5 First 0-10-10 Maintenance 0-10-10 First 6-12-12 Second 6-12-12 Maintenance 10-10-10 First 6-12-12 Second 6-12-12 Second 0-10-10	YEAR EQUIVALENT N-P-K RATE First 6-12-12 1500 lbs./ac. Second 6-12-12 1000 lbs./ac. Maintenance 10-10-10 400 lbs./ac. First 6-12-12 1500 lbs./ac. Second 0-10-10 1000 lbs./ac. Maintenance 0-10-10 1300 lbs./ac. First 10-10-10 1300 lbs./ac. First 20-10-5 one 21-gram pellet per seedling placed in the closing hole First 0-10-10 700 lbs./ac. Maintenance 0-10-10 700 lbs./ac. First 0-10-10 500 lbs./ac. First 6-12-12 800 lbs./ac. First 6-12-12 800 lbs./ac. Maintenance 10-10-10 400 lbs./ac. First 6-12-12 1500 lbs./ac. Second 6-12-12 1500 lbs./ac. Second 0-10-10 1000 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

		dcast	Resource	Planti	ng Dat	es by F	Resource	e Area	35								
Species	Rates 1/ Per <u>Acre</u>	- PLS 2/ Per 1000 Sq. ft.	Area 3/	doffe	d lines	ndicate indicate dates.	e permi	ım date issible	ıs,	PI	anting	Dates	-				Remarks
				J	F	М	Α	М	J	J	Α	S	0	N	D	Ш	
BAHA, PENSACOLA			Р														166,000 seed per pound. Low
(Paspalum notatum)																	growing. Sod forming. Slow to establish. Plant with a
alone or with	60 lbs.	1.4 lb.															companion crop. Will spread
temporary cover																	into bermuda pastures and
																	lawns. Mox with Sericea
with other perennials	30 lbs.	0.7 lb.															lespedeza or weeping lovegrass
BAHA, WILMINGTON				J	F	М	A	М	J	J	Α	S	0	Ν	D	H	
(Paspalum notatum)			Р			_			+							.	
alone or with temporary cover	60 lbs.	1.4 lb.															Same as above.
with other perennials	30 lbs.	0.7 lb.															
				J	F	М	Α	М	J	J	А	S	0	Z	D		
BERMUDA, COMMON			P				 —	-	+								
(Cynodon dactyl on)																	
Hulled seed																	1,787,000 seed per pound.
										İ							Quick cover. Low growing
alone	10 lbs.	0.2 lb.															and sod forming. Full sun.
with other perennials	6 lbs.	0.1 lb.															Good for athletic fields.

		Broadcast	Resource	Plan	ting Da	tes by	Resourc	e Are	as							
Species	Per	Rates 1/- PLS 2/	Area 3/	(0-1			e optimu			Pla	enting	Dates				Remarks
	Acre	1000		dotte	ed lines	indica	te permi		#5,							
		sq. ft.			margina F	al dates M	_	••		,		_			D	
				J	١,	M	A	М	J	J	Α	S	0	N	В	
ERMUDA, COMMON		_														
Cynodon dactylon)			Р												Н	
hhulled seed																
th temporary cover	10 lbs.	0.2 lb.														Plant with winter annuals.
th other perennials	6 lbs.	0.1 lb.														Plant with tall fescue.
				J	F	М	A	М	J	J	Α	s	0	N	D	
ERMUDA SPRIGS	40 cu. ft.	0.9 cu. ft.														A cubic foot contains
Cynodon dactylon)	or															approximately 650 sprigs.
		sod plugs 3' x 3'														A bushel contains 1.25
Coastal, Common,																cubic feet or approximately
fidland, or Tift 44																800 sprigs.
coastal, Common,			Р													Same as above.
				J	F	м	A	м	J	J	A	s	0	N	D	
ENTIPEDE		Block sod only	P	Ľ		191		101		,		-		18	Ľ	Drought tolerant. Full sun or
Eremochloa ophiuroides)			-													partial shade. Effective adjacen
democritoa oprilui oldes)				1												to concrete and in concentrate
																flow areas. Irrigation is needed
																until fully established. Do not
																plant near pastures. Winterhard
																as far north as Athens and
																Atlanta.

Species	Rates 1A	PLS 2/	Area 3/								anting					Remarks
	Per <u>Acre</u>	Per 1000 sq. ft		dotte	d lines	ndicate indicate I dates .	permis		,							
			ĺ	J	F	М	А	М	J	J	Α	S	0	N	D	1
CROWNVETECH (Coronilla v aria) with w inter annuals or cool season grasses	15 lbs.	03 Њ.	Р		F	M	A	М	J		Α	S		N	D	100,000 seed per pound. Der grow th. Drought tolerant and fire resistant, Attractive rose, pink, and white blos soms spr to late fall. Mx with 30 pound of Tall frescue or 15 pounds or rye, hoculate seed with M inoculant. Use from North Atlanta and Northward.
FESCUE, TALL			-	J	F	IM	A	M	1	J	A	5	U	N	D	
(Festuca arundinacea)																227,000 seed per pound. Use alone only on better sites. Not for droughty soils. Mix wi
alone	50 lbs.	1.1 lbs.	P				_				-		_			perenniallespedezas or crow rivetch. Apply topdressi in spring following fall
with other perennials	30 lbs.	0.7 lb.			F	М						S		N	_	plantings. Not for heavy use areas or athletic fields.
				J	F	M	A	M	J	J	Α	1 5	0	N	D	

		Broadcast	Resource	Plan	ting D	ates b	y Reso	ource A	reas								
Species	Per Acre	Rates 1/ - PLS 2/ Per 1000 SQ. ft.	Area 3/					imum d				ng Date	S				Remarks
	İ	.		J	F	м	A	М	J	J	A	s	0	N	D	٦Ì	I
LESPEDEZA, SERICEA																	350,000 seed per pound.
Lespedeza cuneata)															l		Widely adapted. Low
carified	60 lbs.	1.4 lbs.															maintenance. Mix with
			P				+	-	⊣ .								w eeping lovegrass, common
																	bermuda, bahia, or tall fescue. Takes 2 to 3 years to become
																	fully established. Excellent on
																	roadbanks. Inoculate seed with
																	EL inoculant.
ınscarified	75 lbs.	1.7 lb.	Р	\vdash	-	-						-	+	-	+	- 1	Mox with Tall fescue or winter
																	annuals.
			Р			ļ											Cut when seed is mature, but
eed-bearing hay	3 tons	138 lb.	•														before it shatters. Add Tall
																	fescue or winter annuals.
			1														
		Broadcast	Resource	Plar	nting E	etes b	y Reso	шгсе Аг	·eas								
Species		Rates 1/ - PLS 2	/ Area 3/	~~~							Plan	ting Dat	es				Remarks
	Per Acre	Per 1000		(So	lid line			mum da es indic		miccib	NA.						
	Acre	sq.ft.					ttea iini irginal d		are hei	111551	ле						
		5q.it.					4		. T .		. 1	. T .	Т,			Б	

		Broadcast	Resource	Planti	ng Date	es by R	esourc	e Areas	5							
Species		Rates 1/ - PLS 2/	Area 3/							F	lanting	Dates				Remarks
	Per Acre	Per 1000		(Solid	l lines i		optimur d lines ir			ssible						
	11010	sq.ft.			bi		nal date		pom	001010						
		34.11.		J	F	М	А	M	J	J	А	S	0	N	D	
LESPEDEZA																
Ambro virgata									1							300,000 seed per pound.
(Lespedeza virgata DC)									1							Height of growth is 18 to 24
or									1		}					inches. Advantageous in urban
Appalow (Lespedeza cuneata																areas. Spreading-type growth has bronze coloration. Mx with
[Dumont] G. Don)									1							Weeping lovegrass, Common
punerajo. Dony									1							bermuda, bahia, tali fescue
scarified	60 lbs.	1.4 lb.	P			l –	-		١.							winter annuals. Do not mix with
				İ					1							Sericea lespedaza. Slow to
									1		1					develop solid stands. Inoculate
																seed with EL inoculate.
unscarified	75 lbs.	1.7 b.	Р	⊢	-	-			1.				\vdash		-	
				J	F	М	А	М	J	J	А	S	0	N	D	
LESPEDEZA, SHRUB																
(Lespedeza bicolor)			P													
(Lespedeza thumbergii)																Provide wildlife food and cover.
plants		3'x3'									l					
porto		0.00		J	F	М	A	M	J	J	А	S	0	N	D	
LOVEGRASS, WEEPING																
(Eragrostis curvula)											1					1,500,000 seed per pound.
•																Quick cover. Drought tolerant.
alone	4 lbs.	0.1 lb.	P				\vdash		1 .							Grows well with Sericea
																lespedeza on roadbanks.
w ith other perennials	2 lbs.	0.05 lb.					1		1		1	1				

		Broadcast	Resource	Plan	ting Da	tes by l	Resour	ce Are	as							
Species	Rates 1/- PLS 2/ Per Per Acre 1000 sq. ft.		Area 3/	(Soli	Plantling Dates						Remarks					
	İ	i i		J	F	м	Α	M	J	Ј	Α	s	О	N	D	
VAIDENCANE Panicum hemitomon)																For very wet sites. May clog channels. Dig sprigs from local sources. Use along river banks
sprigs	2' x	3' spacing	ALL	J	F	М	Α	M	J	J	A	S	0	N	D	and shorelines.
PANCGRASS, ATLANTIC COASTAL (Panicum amarum var. amarulum)	20 lbs.	0.5 lb.	Р						-	-						Grows well on coastal sand dunes, borrow areas, and grav pils. Provides winter cover for wildlife. Mx with Sericea lespedeza except on sand dune
REED CANARY GRASS				J	F	М	Α	М	J	J	Α	S	0	N	D	1
(Phalaris arundinacea) alone	50 lbs.	1.1 lb.														Grows similar to tall fescue.
		0.7 lb.	P								•		-	•		
with other perennials	30 lbs.	0.7 lb.		J	F	М	Α	М	J	J	A	s	0	N	D	
SUNFLOWER, 'AZTEC WAXIMILLIAM Helianthus maximiliani)	10 lbs.	0.2 lb.	Р				_									227,000 seed per pound. Mix with weeping lovegrass or othe low-growing grasses or legumes.

STABILIZATION WITH PERMANENT

APPROPRIATE SOD VARIETIES FOR ATLANTA

GRASS	VARIETY	GROWING SEASON
BERMUDA	COMMON TIFWAY TIFGREEEN, TIFLAWN	WARM WEATHER
BAHIA	PENSACOLA	WARM WEATHER
CENTIPEDE		WARM WEATHER
ZOYSIA	EMERALD MEYERW	/ARM WEATHER
TALL FESCUE	KENTUCKY C	OOL WEATHER

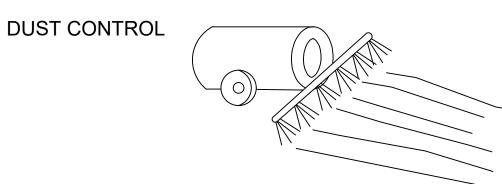
SOIL PREPARATION

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



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

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 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.



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.

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

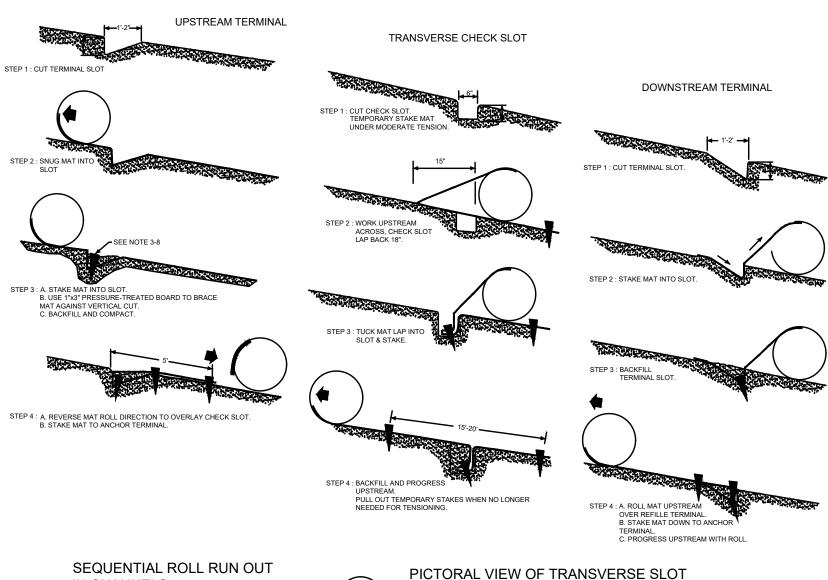
THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING.

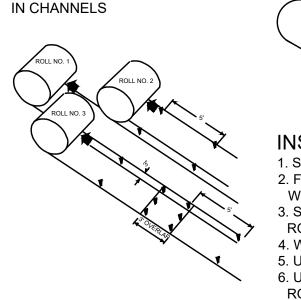
3. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 3/4:1 OR STEEPER. 4. SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE.

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

AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.





INSTALLATION INSTRUCTIONS

- 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 FIRST ROLL. FOR ALIGNMENT TO CHANNEL CENTER.
- 4. WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.
- 5. USE 3" OVERLAP AND STAKE AT 5' INTERVAL ALONG SEAMS.
- 6. USE 3" OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL ENDS.

INSTALLATION NOTES SITE PREPARATION

AFTER THE SITE HAS BEEN SHAPED AND GRADED TO THE APPROVED DESIGN, PREPARE A FRIABLE SEEDBED RELATIVELY FREE FROM CLODS AND ROCKS MORE THAN ONE INCH IN DIAM ETER, AND ANY FOREIGN MATERIAL THAT WILL PREVENT CONTACT OF THE SOIL STABILIZATION MAT WITH THE SOIL SURFACE. SURFACE MUST BE SMOOTH TO ENSURE PROPER CONTACT OF BLANKETS OR MATTING TO THE SOIL SURFACE. IF NECESSARY, REDIRECT ANY RUNOFF FROM THE DITCH OR SLOPE DURING INSTALLATION.

THE FOLLOWING ARE CONSIDERED APPROPRIATE STAPLING AND STAKING MATERIALS.

TEMPORARY BLANKETS

THIS INCLUDES STRAW, EXCELSIOR, COCONUT FIBER, AND WOOD FIBER BLANKETS. STAPLES SHALL BE USED TO ANCHOR TEMPORARY BLANKETS. U-SHAPED WIRE (11 GAUGE OR GREATER) STAPLES WITH LEGS AT LEAST 6 INCHES IN LENGTH AND A CROWN OF ONE INCH OR APPROPRIATE BIODEGRADABLE STAPLES CAN BE USED. STAPLES SHALL BE OF SUFFICIENT THICKNESS FOR SOIL PENETRATION WITHOUT UNDUE DISTORTION.

PERMANENT MATTING

SOUND WOOD STAKES, 1X3 INCHES STOCK SAWN IN A TRIANGULAR SHAPE, SHALL BE USED. DEPENDING ON THE COMPACTION OF THE SOIL, SELECT STAKES WITH A LENGTH FROM 12 TO 18 INCHES. U-SHAPED STAPLES SHALL BE 11 GAUGE STEEL OR GREATER. WITH LEGS AT A MINIMUM OF 8 INCHES LENGTH WITH A 2 INCH CROWN.

LIME, FERTILIZER, AND SEED SHALL BE APPLIED IN ACCORDANCE WITH SEEDING OR OTHER TYPE OF PLANTING PLAN COMPLETED PRIOR TO INSTALLATION OF TEMPORARY COMBINATION BLANKETS OR JUTE MESH. FOR PERMANENT MATS, THE AREA MUST BE BROUGHT TO FINAL GRADE, PLOWED, LIMED, AND FERTILIZED. AFTER THE PERMANENT MAT HAS BEEN INSTALLED AND BACKFILLED. THE ENTIRE AREA SHALL BE GRASSED. REFER TO SPECIFICATION DS3 - DISTURBED AREA

STABILIZATION ET(WITH PERMANENT VEGATION). ALL EROSION CONTROL BLANKETS AND MATTING SHOULD BE INSPECTED PERIODICALLY FOLLOWING INSTALLATION,

PARTICULARLY AFTER RAINSTORMS TO CHECK FOR EROSION AND UNDERMINING. ANY DISLOCATION OR FAILURE SHOULD BE REPAIRED IMMEDIATELY. IF WASHOUTS OR BREAKAGE OCCURS, REINSTALL THE MATERIAL AFTER REPAIRING DAMAGE TO THE SLOPE OR DITCH. CONTINUE TO MONITOR THESE AREAS UNTIL THEY BECOME PERMANENTLY STABILIZED.

SLOPE STABILIZATION - MATTING AND BLANKETS

SHEET C.710

ESPC DETAILS

PROJECT# DATE: 06-20-2025 ENG2051 APPROVED BY: SCALE: DRAWN BY:

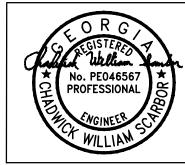
DG **CWS** N.T.S. DATE: **DESCRIPTION:** 08-07-25 REVISED PER COUNTY COMMENTS 09-12-25 REVISED LIMITS OF CONSTRUCTION



Know what's below. Call before you dig.



LEVEL II CERTIFIED DESIGN PROFESSIONAL GSWCC #0000092676 EXPIRATION: 12/02/2026



NOTES:

1. BOLLARDS IN TRASH ENCLOSURE TO BE PAINTED SAFETY YELLOW

2. SEE PLAN SHEETS FOR DIMENSIONS

PAVEMENT DETAILS

IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.

MINIMUMS) SHALL BE STEEL REINFORCED.

STANDARD GRAVEL DETAIL

HEAVY DUTY ASPHALT DETAIL

LIGHT DUTY ASPHALT DETAIL

SCALE: NOT TO SCALE

SCALE: NOT TO SCALE

SCALE: NOT TO SCALE

. THE SUBGRADE MATERIALS SHALL BE PROOF ROLLED AND/OR SCARIFIED AND COMPACTED PRIOR TO PLACEMENT OF BASE MATERIAL. WHERE EXISTING SUBGRADE MATERIALS ARE UNSUITABLE, THEY SHALL BE REMOVED AND REPLACED WITH COMPACTED SELECT MATERIAL

2. HEAVY DUTY CONCRETE PAVEMENT AND STANDARD DUTY CONCRETE PAVEMENT (AS RECOMMENDED BY THE GEOTECHNICAL REPORT

- 8" COMPACTED

AGGREGATE BASE

COMPACTED SUB

GRADE

WEARING COURSE

BINDER COURSE

-8" COMPACTED

AGGREGATE BASE

COMPACTED SUB

WEARING COURSE

AGGREGATE BASE COMPACTED SUB

2" ASPHALT

— 2" ASPHALT

3. CONCRETE PAVEMENT JOINTS MUST BE SEALED WITH AN APPROVED SEALANT. STEEL REINFORCING SHALL BE USED AT JOINTS. REFER TO ACI 330R (GUIDE FOR DESIGN AND CONSTRUCTION OF CONCRETE PARKING LOTS) FOR JOINT DESIGN AND LAYOUT.

RECOMMENDED

-----4" COMPACTED

STANDARD DUTY CONCRETE DETAIL

HEAVY DUTY CONCRETE DETAIL

SCALE: NOT TO SCALE

SCALE: NOT TO SCALE

BY GEOTECHNICAL CONSULTANT

(RE: NOTE 3 ABOVE)

AGGREGATE BASE

COMPACTED SUB

- REINFORCING AS RECOMMENDED

BY GEOTECHNICAL

(RE: NOTE 3 ABOVE)

REINFORCED CONC

AGGREGATE BASE COMPACTED SUB

- 6" COMPACTED

CONSULTANT

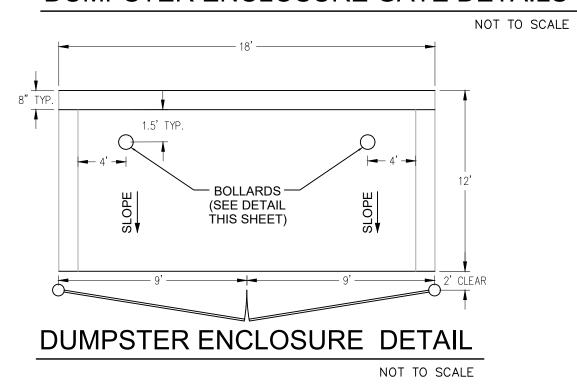
6" 3,000 PSI

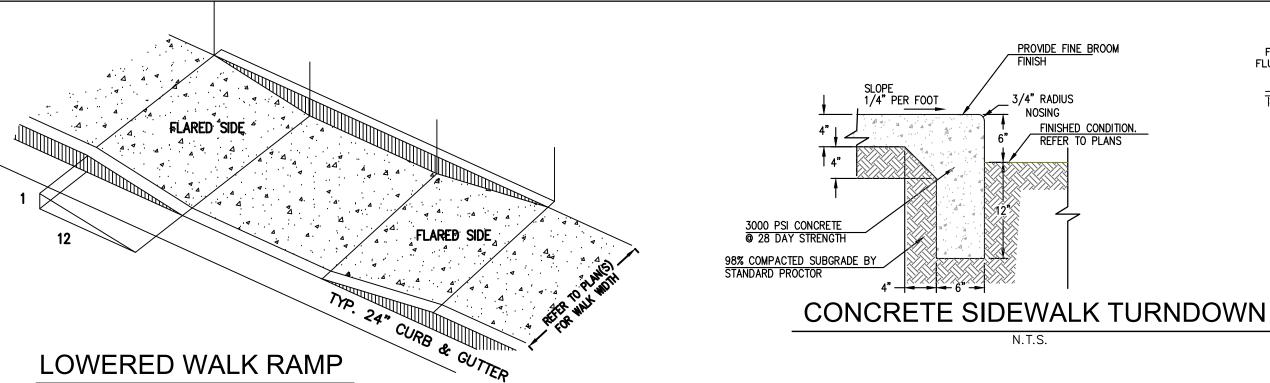
GRADE

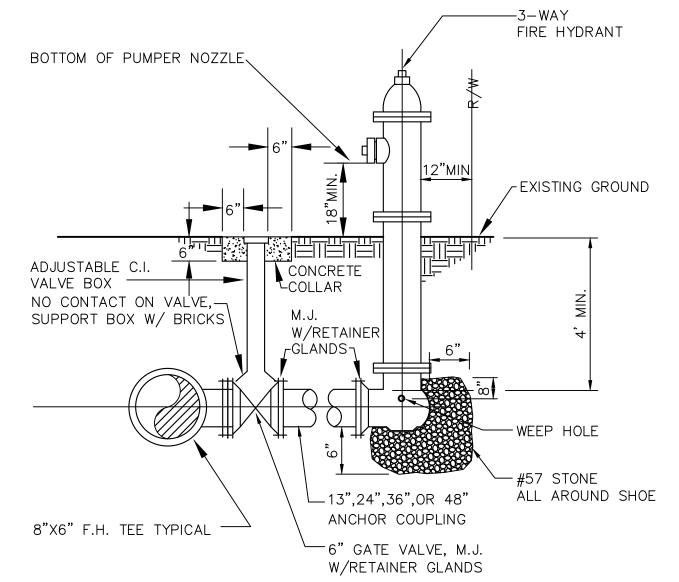
■ 5" 3,000 PSI CONCRETE

DUMPSTER ENCLOSURE GATE DETAILS

AND GALV. BRACKET









N.T.S.

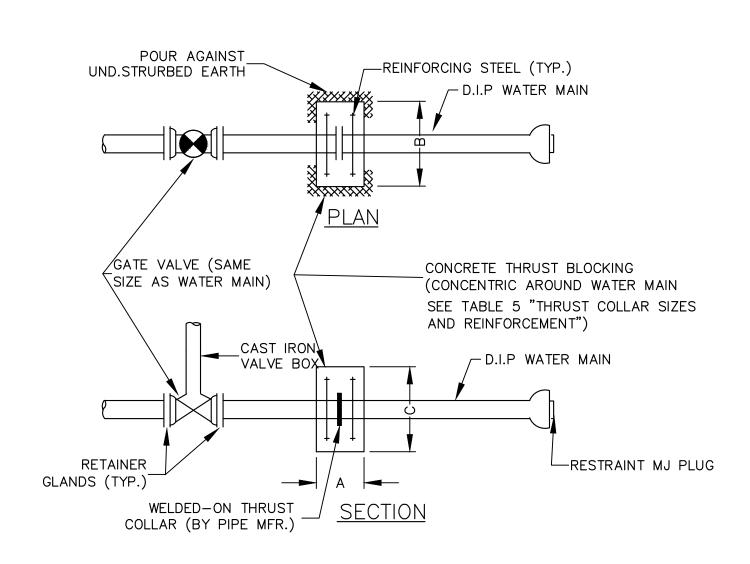
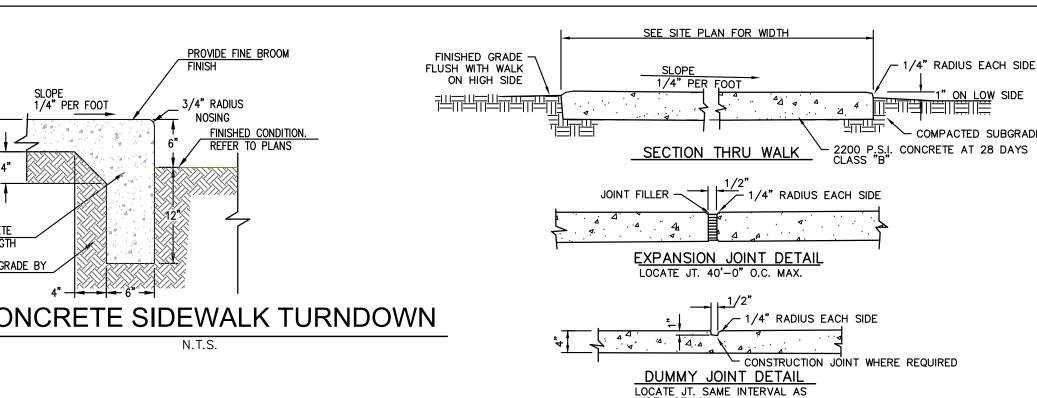
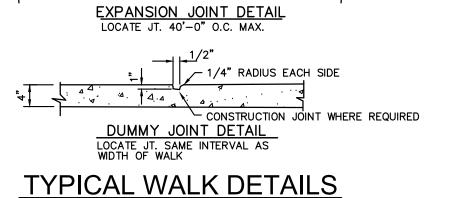


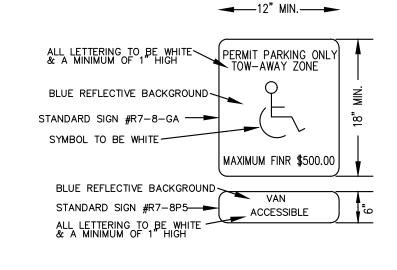
TABLE 5								
THRUST COLLAR SIZES & REINFORCEMENT								
WATER MAIN DIAM.	CONC.	COLLAR [DIAM.	STEEL REINFORCING				
	Α	В	С					
16"	1'-3"	6'-6"	6'-6"	#8 @ 12" O.C. E.W.E.F.				
12"	1'-2"	5'-3"	5'-3"	#7 @ 12' O.C. E.W.E.F.				
6" OR 8"	1'-0"	4'-0"	4'-0"	#6 @ 12" O.C. E.W.E.F.				

NOTES: TEST PRESSURE: 200 PSI SOIL BEARING PRESSURE: 3000 PSF 2" CLEAR OF REINFORCING STEEL

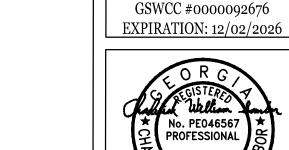
WATER MAIN TERMINATION





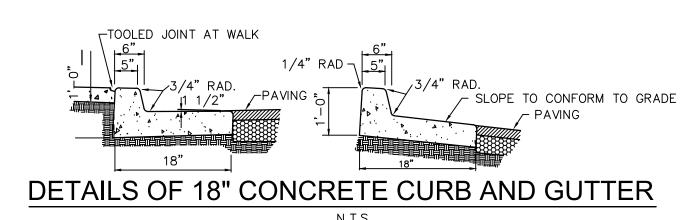






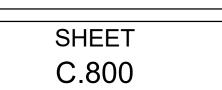
LEVEL II CERTIFIED

DESIGN PROFESSIONAL



- 1/4" RADIUS EACH SIDE

COMPACTED SUBGRADE

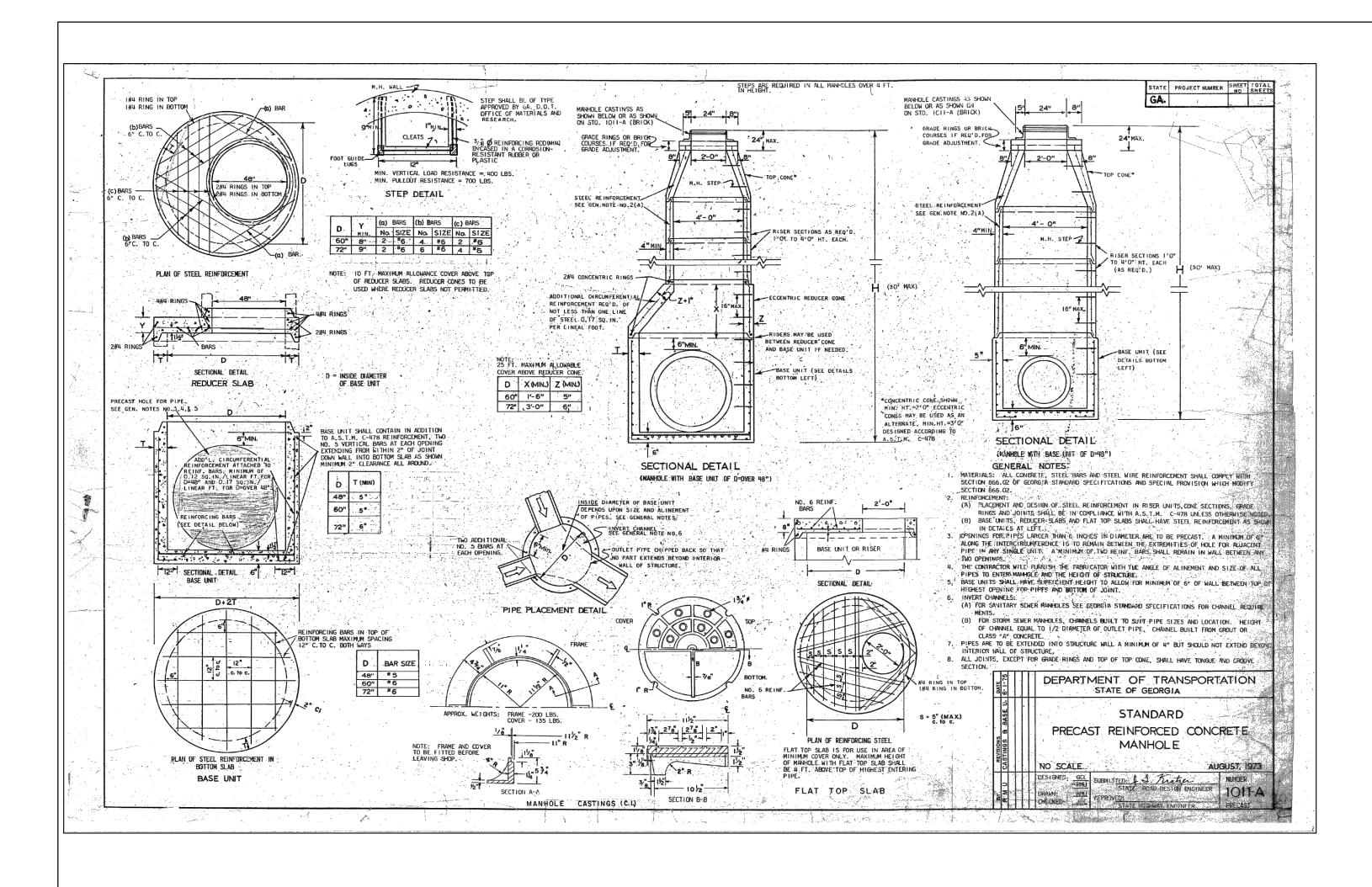


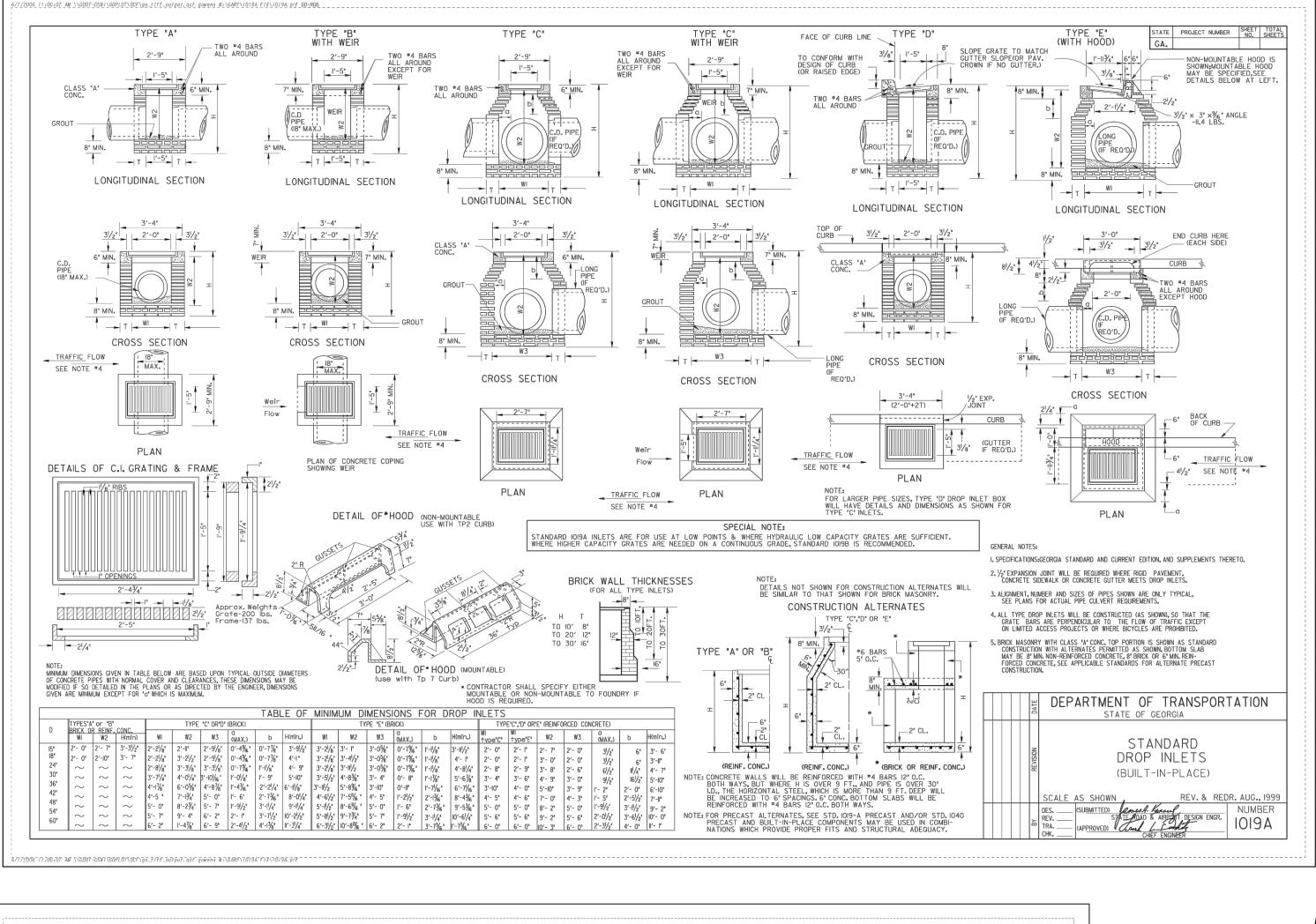
CONSTRUCTION **DETAILS**

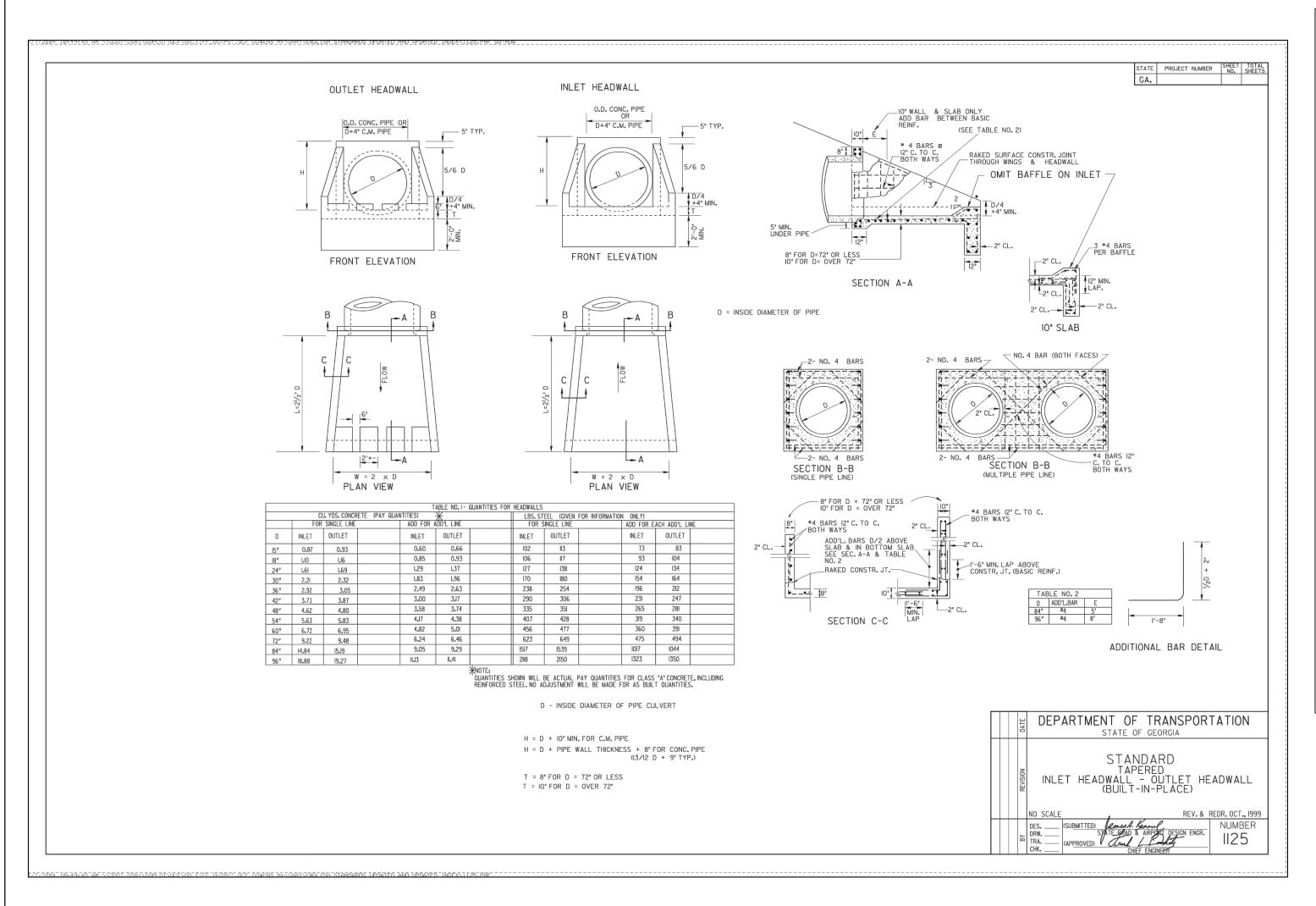
	DA ¹ 06-20		PROJECT # ENG2051				
D	RAWN BY: DG	APPROVE CW:	SCALE: N.T.S.				
REV.	DATE:		DESCRIPTION:				
1	08-07-25	REVISED PER COLINTY COMMENTS					

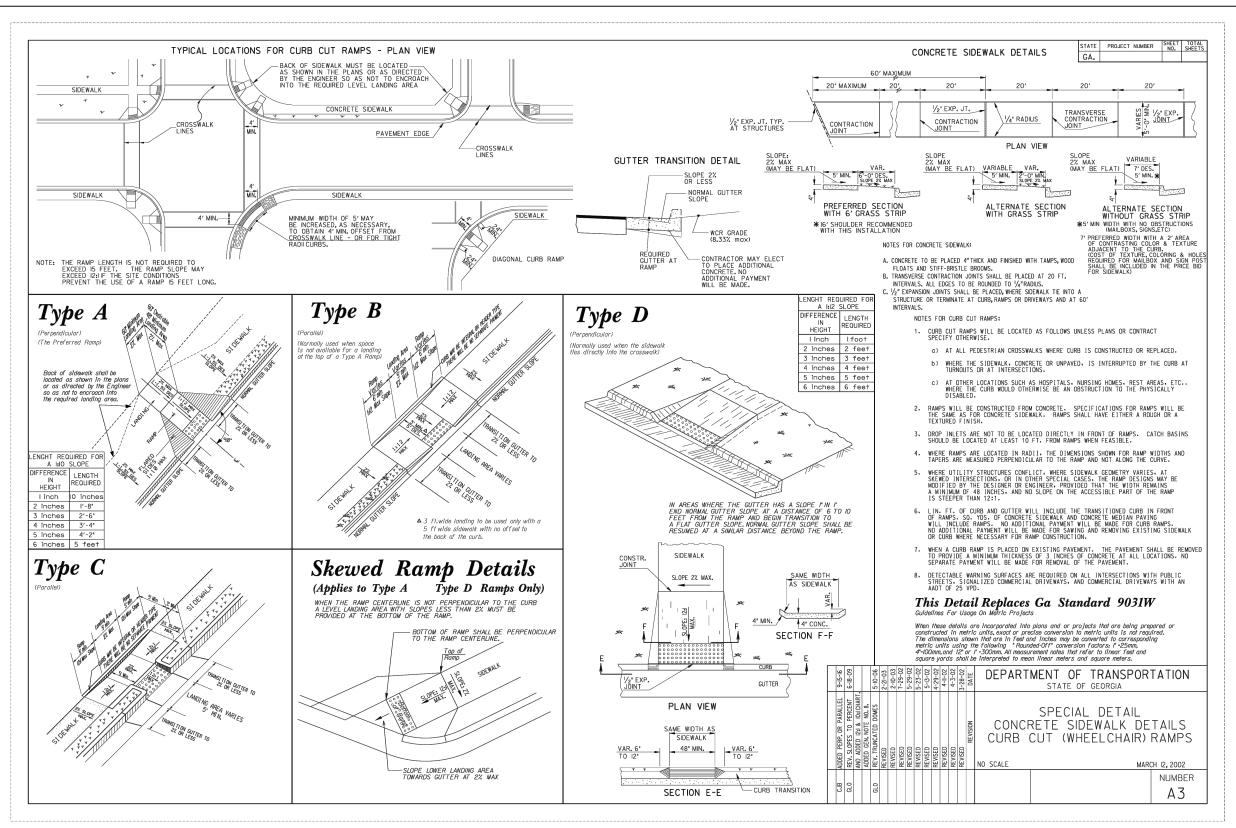
/	/ 1	08-07-25	REVISED PER COUNTY COMMENTS
'	/ 2	09-12-25	REVISED LIMITS OF CONSTRUCTION
1			













LEVEL II CERTIFIED

DESIGN PROFESSIONAL

GSWCC #0000092676

EXPIRATION: 12/02/2026

o. PE046567

PROFESSIONA

C.810

CONSTRUCTION

DETAILS

SHEET

DATE: PROJECT # 66-20-2025 ENG2051



