SITE DEVELOPMENT PLANS
FOR
MADISON METHODIST CHURCH

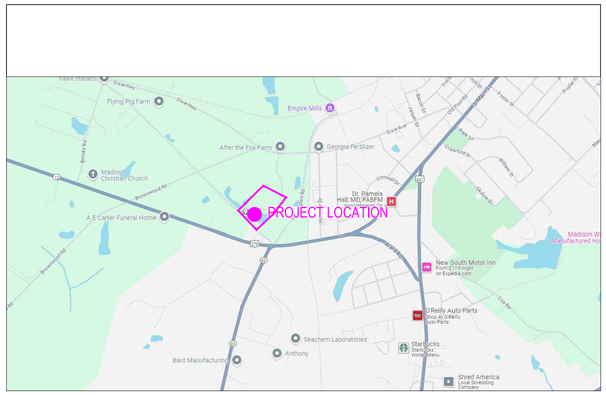
036 039 B
1091 CONFEDERATE RD
MADISON, GA 30650
MORGAN COUNTY
ZONING - R1

S H E E T I N D E X

Sheet Number	Sheet Title
CV-1.0	COVER SHEET
TS-1	BOUNDARY RETRACEMENT TOPO AND EXISTING CONDITIONS SURVEY
C-1.0	GENERAL NOTES
C-2.0	DEMOLITION AND REMOVAL PLAN
C-2.1	LAYOUT & STAKING PLAN
C-3.0	GRADING PLAN
C-4.0	STORMWATER MANAGEMENT PLAN
C-4.1	STORMWATER MANAGEMENT PROFILES
C-4.2	STOMRWATER MANAGEMENT DETAILS
C-5.0	UTILITY PLAN
C-6.0	EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES
C-6.1	EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES
C-6.2	INITIAL EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
C-6.3	INTERMEDIATE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
C-6.4	FINAL EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
C-6.5	EROSION, SEDIMENTATION, AND POLLUTION CONTROL DETAILS
C-6.6	EROSION, SEDIMENTATION, AND POLLUTION CONTROL DETAILS
C-7.0	LANDSCAPE PLAN
C-7.1	LANDSCAPE DETAILS
C-8.0	SITE DETAILS
C-8.1	SITE DETAILS

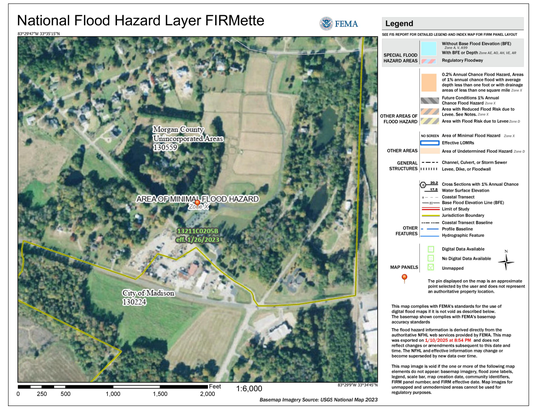
ALPHA SITE SET 05-16-2025

GSWCC CHECKLIST NUMBER (TYP) [2]



VICINITY MAP [3]
NOT TO SCALE

[7] **GPS COORDINATES**
N 33°34'58.07" W -83°29'28.84"
N 33.582798 W -83.491346



FLOOD MAP
NOT TO SCALE

LEGEND

STANDARD ABBREVIATIONS

APPROX = APPROXIMATE	DIA = DIAMETER	GM = GAS METER	OHE = OVER HEAD POWER	SS = SANITARY SEWER
BLDG = BUILDING	DS = DOWNSPOUT	GP = GUY POLE	PB = PLAT BOOK	SSMH = SANITARY SEWER MANHOLE
BM = BENCH MARK	DWCB = DOUBLE WING CATCH BASIN	GV = GAS VALVE	PG = PAGE	SWCB = SINGLE WING CATCH BASIN
C&G = CURB AND GUTTER	ESMPC = EROSION, SEDIMENTATION, AND POLLUTION CONTROL	IRV = IRRIGATION CONTROL VALVE	P = PROPERTY LINE	TC = TRAFFIC CONTROL BOX
CI = CURB INLET	FDC = FIRE DEPARTMENT CONNECTION	IE = INVERT ELEVATION	POB = POINT OF BEGINNING	TMP = TAX MAP PARCEL
C.L. = CHAIN LINK	FFE = FINISH FLOOR ELEVATION	IMP = IMPERVIOUS	PP = POWER POLE	W = WATER
CMP = CORRUGATED METAL PIPE	FH = FIRE HYDRANT	IPF = IRON PIN FOUND	PVC = POLYVINYL CHLORIDE PIPE	WM = WATER METER
CO = CLEAN OUT	FO = FIBER OPTIC	JB = JUNCTION BOX	RBF = REBAR FOUND	WV = WATER VALVE
CPP = CORRUGATED PLASTIC PIPE	FT = FEET	LIA = LOCAL ISSUING AUTHORITY	RCP = REINFORCED CONCRETE PIPE	
CTF = CRIMP TOP FOUND	GI = GRATE INLET	LP = LIGHT POLE	R/W = RIGHT OF WAY	
DB = DEED BOOK		NTS = NOT TO SCALE	SMH = STORM MANHOLE	

STANDARD SYMBOLS

BM, BM IDENTIFICATION, CO, DS, FDC, FENCE, FH, FO, GAS LINE, GAS METER, GAS VALVE, GATE, GP, GUY WIRE, H/C PARKING, ICV, IPF, LIGHT BOX, LP, POWER (OVERHEAD), POWER (UNDERGROUND), POWER BOX, POWER METER, PP, SIGN, SMH, SS LINE, SSMH, TC, TELECOMM STRUCTURE, TELE PEDESTAL, TRAFFIC WIRE, TRANSFORMER, WATER LINE, WM, WV

CONSTRUCTION SEQUENCE SCHEDULE

LAND DISTURBING ACTIVITY SHALL NOT COMMENCE PRIOR TO A PRECONSTRUCTION MEETING WITH THE LOCAL ISSUING AUTHORITY.

BMP'S	MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6	MONTH 7	ACTIVITY
	NOTIFY INSPECTOR 24 HOURS PRIOR TO CONSTRUCTION:							
INITIAL								PRECONSTRUCTION MEETING WITH LOCAL ISSUING AUTHORITY
								PERFORM INITIAL MONITORING
								INSTALL CONSTRUCTION EXIT
								INSTALL INITIAL SILT FENCE (PERIMETER SILT FENCE LOCATIONS FIRST)
								PROVIDE ANY INITIAL MULCHING, GRASSING, OR OTHER GROUND COVER
								INSTALL TOPSOIL LOCATION SILT FENCE
								BEGIN CLEARING, GRUBBING, TOPSOILING, AND GRADING OPERATIONS WITHIN LIMITS OF DETENTION POND
								INSTALL DETENTION BASIN WITH SKIMMER OUTLET (INCLUDES STORM STRUCTURES A2-A1 AND B2-B1)
								INSTALL APPROPRIATE VEGETATIVE AND STRUCTURAL BMPS (INLET / OUTLET PROTECTION, FlO-D, ETC.)
								INSTALL WHEEL WASH AND FUEL STORAGE LOCATION
								COORDINATE SITE REVIEW MEETING WITH ENGINEER AND LOCAL ISSUING AUTHORITY
								INSTALL STORM PIPE SYSTEMS WITH PROTECTED INLETS (SD2'S)
								THROUGHOUT LAND DISTURBANCE PROCESS, MAINTAIN EX. BMPS (VEGETATIVE AND STRUCTURAL)
								THROUGHOUT LAND DISTURBANCE PROCESS, CONTINUE NPDES MONITORING AND REPORTING
								COORDINATE WITH UTILITY COMPANIES ON UTILITY / SLEEVE LOCATIONS
								BEGIN REMAINING CLEARING, GRUBBING, TOPSOILING, AND GRADING OPERATIONS
								INSTALL TOPSOIL AT STOCKPILE LOCATION, IMMEDIATELY GRASS / MULCH, INSTALL ANY REMAINING TOPSOIL LOCATION SILT FENCE
								PERFORM REMAINING GRADING (ADJUST STORM RISERS WITH GRADE CHANGE(S) AND ADJUST ALL SD2'S)
								AS AREAS ARE BROUGHT TO FINISH GRADE, GRASS / BLANKET ANY AREAS THAT ARE FINISH GRADE OR THAT WILL BE LEFT BARE FOR 7 DAYS
								EACH FILL SLOPE SHALL HAVE A DIVERSION AT THE TOP THAT IS MAINTAINED AND REINSTALLED AS THE SLOPE IS CONSTRUCTED
INTERMEDIATE								CONTINUE FLOCCULANT / COAGULANT APPLICATIONS (EVERY 7 DAYS THROUGHOUT PROJECT)
								INSTALL REMAINING STORM SYSTEM(S) AS GRADES ARE ACHIEVED
								IMMEDIATELY INSTALL EACH STORM STRUCTURE WITH ASSOCIATED SD2'S AND ADD FLOC LOGS TO EACH STORM STRUCTURE
								GRASS / MULCH / FlO-D DISTURBED AREAS AND INSTALL ASSOCIATED INTERMEDIATE BMP'S
								INSTALL SANITARY SEWER MAINS AND SERVICES
								GRASS / MULCH / FlO-D DISTURBED AREAS AND INSTALL ASSOCIATED INTERMEDIATE BMP'S
								INSTALL WATER SYSTEM
								GRASS / MULCH / FlO-D DISTURBED AREAS AND INSTALL ASSOCIATED INTERMEDIATE BMP'S
								INSTALL REMAINING UTILITIES (POWER, PHONE, CABLE, GAS, ETC.) WITH APPROPRIATE BMP'S
								INSTALL GAB THROUGHOUT PARKING AREA UP TO DESIGNATED LINE
								INSTALL REMAINING GAB
								BUILDING CONSTRUCTION
								GRASS / MULCH / FlO-D DISTURBED AREAS AND INSTALL ASSOCIATED INTERMEDIATE BMP'S
								INSTALL CURB AND GUTTER
								GRASS / MULCH / FlO-D DISTURBED AREAS AND INSTALL ASSOCIATED INTERMEDIATE BMP'S
								INSTALL PAVEMENT
								FINISH GRADE SHOULDERS AND STABILIZE DISTURBED AREAS WITH PERMANENT VEGETATION
								CONTINUE TO APPLY FLOCCULENT / COAGULANT APPLICATIONS, MULCHING, AND GRASSING AT EACH STEP TO LIMIT SOIL EXPOSURE
FINAL								THROUGHOUT LAND DISTURBANCE PROCESS, MAINTAIN EX. BMPS (VEGETATIVE AND STRUCTURAL)
								THROUGHOUT LAND DISTURBANCE PROCESS, CONTINUE NPDES MONITORING AND REPORTING
								COMPLETE PAVING OPERATIONS
								ACHIEVE FINAL SITE STABILIZATION
								COORDINATE SITE REVIEW MEETING WITH ENGINEER AND/OR LOCAL ISSUING AUTHORITY INSPECTOR
								CLEAN SILT FROM ALL STORM SYSTEMS (DISTRIBUTE ON SITE AND STABILIZE)
								REMOVE ANY TEMPORARY BMP PRACTICES ONCE SITE STABILIZATION IS ACHIEVED AND SIGNED OFF BY ENGINEER
								COORDINATE SITE REVIEW MEETING WITH ENGINEER FOR FINAL SITE APPROVAL

SITE INFORMATION

AN EXISTING HORSE STABLE AND ARENA FACILITY IS BEING RENOVATED INTO A CHURCH FACILITY, DRIVE, WALKS, PARKING, AND ASSOCIATED UTILITIES ARE BEING PROPOSED AS PART OF THE RENOVATIONS

ZONING (PER LOCAL JURISDICTION)	R-1 RESIDENTIAL
LOCAL JURISDICTION	MORGAN COUNTY
PROPERTY AREA	24.42 AC
DISTURBED AREA	4.10 AC
MINIMUM LOT SIZE	1.5 AC
MINIMUM LOT WIDTH	300'
MINIMUM FRONT SETBACK	30'
MINIMUM SIDE SETBACK	15'
MINIMUM REAR SETBACK	40'
MINIMUM OPEN SPACE	N/A
MAXIMUM IMPERVIOUS	30% APPENDIX H- IMPERVIOUS SURFACE-1.98 AC TOTAL SITE DISTURBANCE- 4.10 AC TOTAL SITE IMPERVIOUS- 48%

MISCELLANEOUS INFORMATION

SIGNAGE	SIGNAGE SHALL BE HANDLED UNDER A SEPARATE PERMIT
SITE LIGHTING	SITE LIGHTING IS NOT A PART OF THE CIVIL PLANS (SITE WORK CONSTRUCTION DRAWINGS). SIGHT LIGHTING PROVIDED BY OTHERS UNDER SEPARATE COVER
SOIL SERIES	CeB2- CECIL SANDY LOAM, 2% TO 6% SLOPES, MODERATELY ERODED CID3- CECIL SANDY CLAY LOAM, 6% TO 15% SLOPES, SEVERELY ERODED LyD3- LLOYD CLAY LOAM, 6% TO 15% SLOPES, SEVERELY ERODED W- WATER
FLOOD PLAIN	THERE IS NO FLOODPLAIN ON THIS PROPERTY AS PER FIRM PANEL 13211C0205B DATED 01/26/2023, NO WORK IS BEING DONE WITHIN A FLOODPLAIN. THE PROPERTY SHOWN HEREON LIES WITHIN ZONE X AND IS NOT WITHIN A SPECIAL FLOOD HAZARD AREA.
STATE WATERS	THERE ARE STATE WATERS PRESENT ON THIS SITE. THERE ARE STATE WATERS PRESENT WITHIN 200' OF THIS SITE THERE ARE STREAM BUFFERS ON THIS PROPERTY
HYDROLOGY	A STORMWATER DETENTION BASIN HAS BEEN PROPOSED TO LIMIT POST-DEVELOPMENT PEAK FLOW RATES FOR THE 1-YR THROUGH 100-YR STORM EVENTS.
WETLANDS	THERE ARE NO WETLANDS BEING DISTURBED ON THIS SITE.
	THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING: 1) THE NATIONAL WETLANDS INVENTORY MAPS HAVE BEEN CONSULTED AND, 2) THE APPROPRIATE PLAN SHEET DOES INDICATE WETLANDS AS SHOWN ON THE MAP, AND 3) IF WETLANDS ARE INDICATED, THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT LAND DISTURBANCE OF PROTECTED WETLANDS SHALL NOT OCCUR UNLESS APPROPRIATE FEDERAL WETLANDS ALTERATION (SECTION 404) PERMIT HAS BEEN OBTAINED.
	IF WETLANDS ARE IMPACTED BY THIS DEVELOPMENT, A CORPS OF ENGINEERS PERMIT SHALL BE OBTAINED PRIOR TO DISTURBANCE. ONCE ATTAINED, A COPY OF THE WETLAND PERMIT SHALL BE KEPT ON SITE AT ALL TIMES. UPON THE CORPS OF ENGINEERS APPROVAL, A SEPARATE COPY OF THE PERMIT SHALL BE SUBMITTED TO THE LIA.

OWNER/DEVELOPER
COMPANY: MADISON METHODIST CHURCH INC.
ADDRESS: 1091 CONFEDERATE RD
MADISON, GA 30650
PHONE: (706) 521-0017
CONTACT: MATTHEW MITCHELL
EMAIL:MATTHEW@MADISONMC.NET

CONTRACTOR
COMPANY: SUNBELT BUILDERS
ADDRESS: 10641 HIGHWAY 36
COVINGTON, GA 30014
CONTACT: MIKE MCCROREY JR.
PHONE: 770.786.3031
EMAIL: MMCCRORERY@SUNBELTBUILDERS.COM

SURVEYOR
COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896 MADISON, GA 30650
PHONE: 706.342.1104
CONTACT: BRIAN SLATE
EMAIL: BSLATE@GEORGIACIVIL.COM

SITE DESIGNER
COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896
MADISON, GA 30650
PHONE: 706.342.1104

JASON P. BROWN
LEVEL II CERTIFIED DESIGN PROFESSIONAL
#53274 - EXP. 05.01.2026

24-HOUR CONTACT
JASON BROWN
(770) 713-9972

GEORGIA811 www.Georgia811.com
Contact 811 before you dig.

Utilities/Services shown are for Contractors' convenience. Items are shown schematically and neither the site design professional nor the owner assumes any responsibility for variances in their actual location. This plan may not show and/or may incorrectly show utilities located on site. Contractor shall be responsible to secure and use the services of a private utility locator firm during the entire course of work and shall pay for said services. Contractor shall locate utilities prior to any disturbance (including field verifying location and depth of utilities that are to be saved and protected). Contractor shall notify the site design professional of any utility conflicts prior to installation of new utilities, grading, etc. The Contractor, at their expense, shall be responsible to repair, replace and/or relocate, as necessary, any utilities damaged, whether shown or not. Abandonment, relocation, etc. of utilities shall be coordinated with the respective utility company.

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P: 706.342.1104
www.georgiacivil.com

Professional Seal

GEORGIA REGISTERED NO. PE024869 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

MADISON METHODIST CHURCH
1091 CONFEDERATE RD
MADISON, GA 30650
ZONING: R1

DRAWING DATE:	01.22.25
DRAWN BY:	MCS
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
04-14-25	ADDRESS COMMENTS

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Sheet Title

COVER SHEET

Sheet Number

CV-1.0

THIS BLOCK RESERVED FOR THE CLERK OF THE SUPERIOR COURT.

SURVEYORS CERTIFICATION

This plat is a retracement of an existing parcel or parcels of land and does not subdivide or create a new parcel or make any changes to any real property boundaries. The recording information of the documents, maps, plats, or other instruments which created the parcel or parcels are stated hereon. RECORDATION OF THIS PLAT DOES NOT IMPLY APPROVAL OF ANY LOCAL JURISDICTION, AVAILABILITY OF PERMITS, COMPLIANCE WITH LOCAL REGULATIONS OR REQUIREMENTS, OR SUITABILITY FOR ANY USE OR PURPOSE OF THE LAND. Furthermore, the undersigned land surveyor certifies that this plat complies with the minimum technical standards for property surveys in Georgia as set forth in the rules and regulations of the Georgia Board of Registration for Professional Engineers and Land Surveyors and as set forth in O.C.G.A. Section15-6-67.

GEORGIA PROFESSIONAL No. 2629 LAND SURVEYOR G BRIAN SLATE

G. Brian Slate
G. BRIAN SLATE, GA. RLS 2629

04/16/2024
DATE

THE PURPOSE OF THIS PLAT IS A BOUNDARY RETRACEMENT, TOPOGRAPHICAL AND EXISTING CONDITIONS SURVEY ON AN EXISTING TRACT KNOWN AS TAX MAP PARCEL 036 039 B, MORGAN COUNTY, GEORGIA. THE SOURCE OF TITLE DESCRIPTION IS PER DB 723, PG 188, AFORESAID COUNTY. THE CURRENT OWNER, AS PER THE INDICATED TAX RECORDS IS MADISON METHODIST CHURCH, INC. THE PROPERTY ADDRESS IS 1218 DIXIE HIGHWAY, MADISON, GEORGIA, 30650.



SITE MAP
N.T.S.

N

GRID NORTH
GA WEST NAD 83

Know what's below. Call before you dig.

ZONED: R1
TMP: 036 039 E
N/F ANN M. DUPREE
PB 17, PG 480
S82°34'42"E — 692.12'

ZONED: R1
TMP: 036 039
SOUTHERN DIXIE GROUP, LLC
DB 513, PG 829 / PB 30, PG 146
N29°27'09"E — 195.39'

ZONED: R1
TMP: 036 039 B
13.380 ACRES
(582,847 SF)
DB 723, PG 188 / PB 30, PG 106)

ZONED: R1
TMP: 036 039 B
MADISON METHODIST CHURCH, INC.
DB 723, PG 188 / PB 30, PG 106

ZONED: R1
TMP: 036 039 C
TIMOTHY BELL & MARY ELIZABETH FURR
DB 642, PG 119 / PB 30, PG 105

ZONED: R1
TMP: 036 039 C
TIMOTHY BELL & MARY ELIZABETH FURR
DB 642, PG 119 / PB 30, PG 105

ZONED: R1
TMP: 036 039 C
TIMOTHY BELL & MARY ELIZABETH FURR
DB 642, PG 119 / PB 30, PG 105

ZONED: R1
TMP: 036 039 C
TIMOTHY BELL & MARY ELIZABETH FURR
DB 642, PG 119 / PB 30, PG 105

ZONED: R1
TMP: 036 039 C
TIMOTHY BELL & MARY ELIZABETH FURR
DB 642, PG 119 / PB 30, PG 105

ZONED: R1
TMP: 036 039 C
TIMOTHY BELL & MARY ELIZABETH FURR
DB 642, PG 119 / PB 30, PG 105

ZONED: R1
TMP: 036 039 C
TIMOTHY BELL & MARY ELIZABETH FURR
DB 642, PG 119 / PB 30, PG 105

ZONED: R1
TMP: 036 039 C
TIMOTHY BELL & MARY ELIZABETH FURR
DB 642, PG 119 / PB 30, PG 105

60' R/W CONFEDERATE ROAD
PB 30, PG 106

POB: 1/2" RBF, 52' ALONG R/W TO SW R/W TERMINUS OF ROAD

LEGEND	
⊘	= COMPUTED POINT
●	= IRON PIN FOUND
H	= IRRIGATION CONTROL VALVE
◇	= FIRE HYDRANT
GM	= GAS METER
E	= ELECTRIC METER
● PP	= POWER POLE
W	= WELL
×	= WATER PUMP
ET	= ELECTRIC TRANSFORMER
MH	= UNKNOWN MAN HOLE
S	= SANITARY SEWER MAN HOLE
CO	= CLEAN OUT
▥	= GRATE INLET
①	= DECIDUOUS TREE
⊛	= EVERGREEN TREE
WV	= WATER VALVE
▬ ▬	= STORM PIPE
–OHP–	= OVERHEAD POWER
–SS–	= SANITARY SEWER LINE
–X–	= FENCE LINE
A	= ARC LENGTH
APPROX.	= APPROXIMATE
B.S.L.	= BUILDING SETBACK LINE
CB	= CHORD BEARING
CD	= CHORD DISTANCE
CMP	= CORRUGATED METAL PIPE
CONC	= CONCRETE
DB	= DEED BOOK
EX.	= EXISTING
FES	= FLARED END STRUCTURE
FFE	= FINISH FLOOR ELEVATION
FH	= FIRE HYDRANT
GI	= GRATE INLET
GM	= GAS METER
HVAC	= HEATING & AIR CONDITIONER UNIT
HWF	= HOG WIRE FENCE
ICV	= IRRIGATION CONTROL VALVE
N/F	= NOW OR FORMERLY
NTS	= NOT TO SCALE
℄	= PROPERTY LINE
PB	= PLAT BOOK
PG	= PAGE
POB	= POINT OF BEGINNING
R/W	= RIGHT OF WAY
RBF	= REBAR FOUND
RCP	= REINFORCED CONCRETE PIPE
SF	= SQUARE FEET
SMH	= SANITARY SEWER MANHOLE
TMP	= TAX MAP PARCEL
WV	= WATER VALVE

GRAPHIC SCALE
0 50 100 150
(IN FEET) SCALE: 1" = 50'

G. Brian Slate
GEORGIA PROFESSIONAL LAND SURVEYOR, RLS#2629

ALPHA SITE SET 05-16-2025

SURVEY NOTES:

1. THE DATUM FOR THIS SITE WAS ESTABLISHED UTILIZING GLOBAL POSITIONING SYSTEMS AND THE BASED REFERENCE FRAME ON POSITIONAL VALUES FOR THE VIRTUAL REFERENCE STATION NETWORK DEVELOPED BY EGPS SOLUTIONS. THE HORIZONTAL DATUM IS GEORGIA STATE PLANE WEST ZONE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. THE VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE. SUBJECT AND ADJACENT PROPERTY OWNERS' DEED AND PLAT REFERENCES WERE OBTAINED BY GEORGIA CIVIL, INC. AND ARE NOT GUARANTEED AS TO ACCURACY NOR COMPLETENESS.
4. ALL DEED AND PLAT BOOK REFERENCES AS SHOWN HEREON ARE RECORDED IN THE CLERK OF SUPERIOR COURT'S OFFICE OF MORGAN COUNTY, GEORGIA.
5. STRUCTURES VISIBLE ON THE DATE OF THE SURVEY ARE AS SHOWN HEREON. ALL LOCATIONS ARE ACCURATE ONLY WHERE DIMENSIONED.
6. THIS PROPERTY IS LOCATED IN ZONE "X" AND IS NOT SHOWN TO BE LOCATED WITHIN THE LIMITS OF A SPECIAL FLOOD HAZARD AREA, PER THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP NO. 13211C0205B; EFFECTIVE DATE: 01/26/2023. THIS STATEMENT IS BASED ON GRAPHICALLY LOCATING THE SUBJECT PROPERTY ON SAID MAP. NO ADDITIONAL FIELD WORK HAS BEEN COMPLETED TO VERIFY THIS INFORMATION.
7. THE CERTIFICATION, AS SHOWN HEREON, IS PURELY A STATEMENT OF PROFESSIONAL OPINION BASED ON KNOWLEDGE, INFORMATION AND BELIEF, BASED ON EXISTING FIELD EVIDENCE AND DOCUMENTARY EVIDENCE AVAILABLE. THE CERTIFICATION IS NOT AN EXPRESSED OR IMPLIED WARRANTY OR GUARANTEE.
8. THE TERM "CERTIFICATION" AS USED IN RULE "180-6-.09(2) AND (3)" AND RELATING TO PROFESSIONAL ENGINEERING OR LAND SURVEYING SERVICES, AS DEFINED IN O.C.G.A. 43-15-2(6) AND (11), SHALL MEAN A SIGNED STATEMENT BASED UPON FACTS AND KNOWLEDGE KNOWN TO THE REGISTRANT AND IS NOT A GUARANTEE OR WARRANTY, EXPRESSED OR IMPLIED.
9. THIS SURVEY COMPLIES WITH BOTH THE RULES OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND THE OFFICIAL CODE OF GEORGIA ANNOTATED (OCGA) 15-6-67, IN THAT WHERE A CONFLICT EXISTS BETWEEN THOSE TWO SETS OF SPECIFICATIONS, THE REQUIREMENTS OF LAW PREVAIL.
10. UTILITIES, AS SHOWN HEREON, ARE BASED ON ABOVE GROUND VISIBLE EVIDENCE ONLY. THE SURVEYOR DOES NOT WARRANT THE EXACT SIZE, TYPE, LOCATION, ACCURACY OR THOROUGHNESS OF THE INFORMATION CONCERNING THE ABOVE/UNDERGROUND UTILITIES AND STRUCTURES. NO GUARANTEE IS MADE THAT OTHER UTILITIES MAY EXIST ON THE SITE, THAT MAY NOT BE SHOWN.
11. THE FIELD DATA UPON WHICH THIS MAP OR PLAT IS BASED HAS AN AVERAGE RELATIVE ACCURACY OF 0.03 FEET AT A 95% CONFIDENCE LEVEL AND HAS NOT BEEN ADJUSTED. THIS PLAT HAS BEEN CALCULATED FOR CLOSURE AND HAS BEEN FOUND TO BE ACCURATE WITHIN ONE FOOT IN 295,389 FEET. THE LINEAR AND ANGULAR MEASUREMENTS SHOWN ON THIS PLAT WERE OBTAINED BY UTILIZING A GEOMAX ROBOTIC TOTAL STATION AND A CARLSON BRx7 GPS UNIT (MFG#192.168.10.1) IN THE PREPARATION OF THIS PLAT. THE FIELD MEASUREMENTS WERE COMPLETED ON 01/19/2024.
12. THIS PROPERTY IS SUBJECT TO ALL RIGHT OF WAYS AND EASEMENTS OF RECORD.
13. IN MY OPINION, THIS IS A CORRECT REPRESENTATION OF THE LAND PLATTED AND HAS BEEN PREPARED IN CONFORMITY WITH THE MINIMUM STANDARDS AND REQUIREMENTS OF LAW.
14. THIS PLAT HAS BEEN COMPLETED FOR THE USE AND PURPOSE OF THE CLIENT ASCRIBED AND CONTRACTED WITH HEREON. ALL OTHER PARTIES ARE SUBSEQUENTLY PUT ON NOTICE AS TO THE LIMITED DEGREE OF RELIANCE UPON THIS PLAT BY THIRD PARTIES.
15. THE TOPOGRAPHICAL INFORMATION, SHOWN HEREON, IS BASED ON FIELD SURVEYED DATA, ELEVATIONS SHOWN ARE BASED ON NAVD88 (COMPUTED USING GEOID18).

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LANDSCAPE ARCHITECTURE
LAND SURVEYING

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GEORGIA PROFESSIONAL No. 2629 LAND SURVEYOR G BRIAN SLATE

SURVEYED BY:
G. BRIAN SLATE, RLS#2629
C: 706-201-0996
bslate@georgiacivil.com

"THE SURVEY WAS PREPARED IN CONFORMITY WITH THE TECHNICAL STANDARDS FOR PROPERTY SURVEYS IN GEORGIA AS SET FORTH IN CHAPTER 180-7 OF THE RULES OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND THE OFFICIAL CODE OF GEORGIA ANNOTATED (OCGA) 15-6-67, AS AMENDED BY HB1004 (2016)".
CERTIFICATE OF AUTHORIZATION LSF001055

Project Information

SURVEY FOR:
MADISON METHODIST CHURCH, INC.

13.380 ACRES
IN LAND LOT 138 OF THE 20th LAND DISTRICT
IN THE 276th G.M. DISTRICT
MORGAN COUNTY, GEORGIA

CREW CHIEF:	TG
SURVEYED:	01/19/2024
PROJECT #:	24GCI006
DRAWING DATE:	04/16/2024
DRAWN BY:	GBS
CHECKED BY:	GBS

REVISIONS

DATE:	DESCRIPTION:

SCALE: 1"=50'

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Sheet Title
BOUNDARY RETRACEMENT TOPOGRAPHICAL AND EXISTING CONDITIONS SURVEY

Sheet Number
TS-1

GENERAL NOTES:

1. ALL UTILITY INSTALLATION SHALL BE IN ACCORDANCE WITH MORGAN COUNTY WATER AND SEWER STANDARDS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND REVIEWING SAID STANDARDS AND SPECIFICATIONS.
2. NOTIFY MORGAN COUNTY INSPECTION 24 HRS BEFORE BEGINNING OF CONSTRUCTION.
3. CONTRACTOR SHALL THOROUGHLY REVIEW CONSTRUCTION PLANS AND BE FAMILIAR WITH EXISTING CONDITIONS BY SITE VISITATION, PRIOR TO FORMULATING BID.
4. CONTRACTOR SHALL VERIFY CONDITIONS AND DIMENSIONS BEFORE PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCY FOUND IN THIS SET SHALL BE REFERRED TO THE SITE DESIGN PROFESSIONAL BY THE CONTRACTOR FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR DISCREPANCIES WHICH ARE NOT REPORTED.
5. CONSTRUCTION SHALL MEET OR EXCEED MORGAN COUNTY MINIMUM STANDARDS AND SPECIFICATIONS.
6. CONTRACTOR SHALL ADHERE TO NORMAL WORKING HOURS AS PER MORGAN COUNTY ORDINANCES. CONSTRUCTION OUTSIDE OF NORMAL WORKING HOURS, MAY BE ALLOWED UPON PRIOR APPROVAL BY MORGAN COUNTY .
7. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL ADHERE TO FEDERAL, STATE, COUNTY AND LOCAL LAWS, ORDINANCES, AND REGULATIONS WHEN IN ANY MANNER AFFECT THE CONDUCT OF WORK, INCLUDING, BUT NOT LIMITED TO, INITIATING, MAINTAINING, AND SUPERVISING SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK (I.E. THE REQUIREMENTS OF APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)). CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD MORGAN COUNTY AND ITS AGENTS, THE OWNER AND THE SITE DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN THE CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
9. DO NOT BREAK THESE DOCUMENTS INTO PARTS AND SUB-PARTS. THE SITE DESIGN PROFESSIONAL AND OWNER ASSUMES NO RESPONSIBILITY FOR THE SEPARATION OF THESE DOCUMENTS BY ANY ENTITY OR THE CONTRACTOR'S AGENTS. EACH CONTRACTING ENTITY SHALL BE RESPONSIBLE FOR ALL OF THE WORK RELATED TO THEIR TRADES WHEREVER IT MAY BE SHOWN WITHIN THE CONTRACT DOCUMENT PACKAGES.
10. NO WORK SHALL BE PERFORMED WITHIN GEORGIA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY (IF APPLICABLE) UNTIL PERMIT(S) (INCLUDING GEORGIA DEPARTMENT OF TRANSPORTATION UTILITY ENCROACHMENT PERMIT) ARE OBTAINED FROM GEORGIA DEPARTMENT OF TRANSPORTATION AND ON SITE.
11. BARRICADES, SUFFICIENT LIGHTS, TRAFFIC SAFETY SIGNS, AND OTHER TRAFFIC CONTROL MEASURES AS DEEMED NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION ON ROADS ACCESSED BY THE GENERAL PUBLIC.
12. SIGNS (LOCATION, NUMBER, AND SIZE) ARE NOT APPROVED UNDER THIS DEVELOPMENT PERMIT. A SEPARATE PERMIT IS REQUIRED FOR EACH SIGN.
13. NO CERTIFICATE OF OCCUPANCY SHALL BE ISSUED UNTIL SITE IMPROVEMENTS ARE COMPLETE.
14. ACCESS TO BUILDINGS DURING CONSTRUCTION SHALL BE MAINTAINED AND OPEN TO EMERGENCY VEHICLES AT ALL TIMES, THROUGH THE USE OF EXISTING OR TEMPORARY ROADS, DRIVES, AND/OR WALKS.
15. SITE LIGHTING SHALL BE FULLY SHIELDED. SITE LIGHTING IS TO BE DESIGNED BY OTHERS.
16. ALL WORK SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL CODES AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY CONTRACTOR.
17. CONTRACTOR IS RESPONSIBLE FOR QUANTITY TAKE OFFS AND ESTIMATING ALL QUANTITIES FOUND WITHIN THE SITE WORK CONSTRUCTION DRAWINGS. ANY QUANTITY TAKE OFFS OR ESTIMATES PROVIDED BY THE SITE DESIGN PROFESSIONAL ON THESE DOCUMENTS OR OTHERWISE SHALL BE VERIFIED BY THE CONTRACTOR BY PERFORMING HIS/HER OWN QUANTITY TAKE OFF AND/OR ESTIMATE. ANY COST FOR ANY DISCREPANCY IN QUANTITY TAKE OFF OR ESTIMATE PROVIDED BY SITE DESIGN PROFESSIONAL AND REQUIRED CONSTRUCTION QUANTITIES SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE SITE DESIGN PROFESSIONAL AND/OR OWNER AND/OR OWNER'S REPRESENTATIVE.

DEMOLITION REQUIREMENTS:

1. THE CONTRACTOR SHALL INSPECT ALL STRUCTURES, FACILITIES, AND AREAS SLATED FOR DEMOLITION TO GAIN A FULL UNDERSTANDING OF THE WORK REQUIRED. THE CONTRACTOR SHALL TAKE WHATEVER PRECAUTIONS ARE NECESSARY AND/OR DESIRED AND/OR REQUIRED BY LOCAL AUTHORITIES AND AGENTS DURING THE INSPECTION AND SUBSEQUENT WORK. THE OWNER, CLIENT AND SITE DESIGN PROFESSIONAL ARE NOT RESPONSIBLE FOR THE CONDITION OF THE BUILDINGS, FACILITIES, OR OTHER AREAS SLATED FOR DEMOLITION.
2. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE OWNER TO DEMOLISH ANY STRUCTURE ON THE SITE BEFORE PROCEEDING WITH WORK.
3. ALL WORK PERFORMED ON THE SITE SHALL ADHERE TO ALL (OSHA) OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION SAFETY STANDARDS.
4. ALL MATERIALS NOT SLATED FOR REUSE SHALL BE DISPOSED OF OFF SITE IN A LEGAL MANNER. THE CONTRACTOR MAY SALVAGE ALL MATERIALS NOT DESIGNATED BY THE OWNER TO BE SAVED. THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND STORE SAFELY ALL MATERIALS SLATED TO BE SAVED OR REUSED. THE CONTRACTOR SHALL DOCUMENT EXISTING CONDITIONS USING PHOTOGRAPHS PRIOR TO START OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS TO REPAIR OR REPLACE MATERIALS DAMAGED DUE TO HIS WORK OR FAILURE TO PROTECT THROUGHOUT THE DURATION OF HIS CONTRACT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL APPROPRIATE UTILITY OWNERS, OPERATORS AND USERS PRIOR TO DISCONNECTION AND DEMOLITION. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. ALL PLUGS, STOPS, AND CAPS SHALL BE PER AGENCIES REQUIREMENTS AND IF NONE EXIST THEN A 3000 PSI CONCRETE PLUG WITH A THICKNESS EQUAL TO THE DIAMETER OF THE PIPE SHALL BE USED.
6. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY AND STOP ALL WORK IN AREAS WHERE HAZARDOUS MATERIALS ARE DISCOVERED, WHEN REQUIRED, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE ENVIRONMENTAL AND HEALTH AGENCIES. THE CONTRACTOR SHALL FLAG OFF ALL ACCESS WITH SUFFICIENT FLAGGING THAT THERE IS AN APPARENT WARNING OF THE PRESENCE OF HAZARDOUS MATERIALS.
7. NO BURNING, EXPLOSIVES OR OTHER POTENTIALLY DANGEROUS METHODS OF DEMOLITION SHALL BE ALLOWED UNLESS WRITTEN PERMISSION IS GRANTED BY THE OWNER AND ALL APPROPRIATE PERMITS ARE GRANTED.
8. THE CONTRACTOR SHALL PROVIDE WHATEVER SAFETY EQUIPMENT AND DEVICES ARE NECESSARY TO PROTECT THE ADJACENT PROPERTIES, STRUCTURES AND OTHER AREAS SLATED TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS TO REPAIR OR REPLACE ANY DAMAGE CAUSED BY HIS/HER WORK. THIS SHALL ALSO INCLUDE EROSION CONTROL, DUST CONTROL AND SETTLEMENT.
9. ALL AREAS SHALL BE BROUGHT BACK TO THEIR ORIGINAL GRADE OR THAT OF THE SURROUNDING AREA. WHICH EVER IS CLOSER TO THE FINAL GRADES OF THE PROJECT FOR THAT AREA, ALL TEMPORARY SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL. ALL AREAS REQUIRING FILL SHALL BE COMPACTED TO THE REQUIREMENTS OF THE AREA BUT IN NO CASE LESS THAN 90% OF MODIFIED PROCTOR (ASTM D 1557).
10. THE CONTRACTOR SHALL PROVIDE NECESSARY EROSION CONTROL MEASURES DURING THE DEMOLITION AND REMOVAL OF EXISTING SITE FEATURES.
11. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL TIMES.
12. EXISTING BUILDINGS, APPURTENANCES, CANOPIES AND FOUNDATIONS ON THE PROPERTY SHALL BE PROTECTED UNLESS OTHERWISE NOTED.
13. THE CONTRACTOR SHALL MAINTAIN SAFE, CLEARLY MARKED PEDESTRIAN ACCESS ROUTES TO BUILDING ENTRANCES THROUGHOUT ALL PHASES OF CONSTRUCTION. ACCESS TO BUILDINGS SHALL BE MAINTAINED AT ALL TIMES.
14. SERVICES SHOWN ARE TO ASSIST CONTRACTOR IN LOCATING UTILITIES, ITEMS ARE SHOWN SCHEMATICALLY AND NEITHER THE ARCHITECT, SITE DESIGN PROFESSIONAL, NOR THE OWNER ASSUMES ANY RESPONSIBILITY FOR VARIANCES IN THE ACTUAL LOCATION OF THE EXISTING UTILITIES.
15. THE CONTRACTOR SHALL REPAIR OR REPLACE AS NECESSARY ANY UTILITIES DAMAGED, WHETHER SHOWN ON THESE PLANS OR NOT, AT NO ADDITIONAL COST TO THE CONTRACT.
16. EXISTING UTILITY APPURTENANCES (CLEAN OUTS, VALVEMETER BOXES AND/OR COVERS, MANHOLES, ETC.) LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED AS NECESSARY OR DIRECTED BY THE OWNER AND/OR THE OWNER'S REPRESENTATIVE.
17. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY PROVIDER OF DAMAGE TO ANY ACTIVE UTILITY AND PROVIDE CORRECTIVE MEASURES AS DIRECTED BY THE UTILITY PROVIDER AT NO ADDITIONAL COST TO THE CONTRACT.
18. EXISTING ITEMS TO REMAIN WITHIN THE PROJECT LIMITS SHALL BE RETAINED IN PLACE AND PROTECTED FROM DAMAGE DURING CONSTRUCTION. UNLESS OTHERWISE NOTED OR DIRECTED BY THE OWNER AND/OR THE OWNER'S REPRESENTATIVE.
19. ALL DISPOSAL SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES.
20. THERE SHALL BE NO ON SITE BURIAL.
21. WORK DONE AHEAD OF SCHEDULE OR FOR TEMPORARY PROVISIONS SHALL HAVE EXISTING DISTURBED SURFACES PATCHED TO MATCH ORIGINAL CONDITIONS UNTIL NEW CONSTRUCTION REPLACES SUCH REPAIRS OR MODIFICATIONS.
22. PAVEMENT AREAS TO BE SAWED SHALL BE ABRASION SAW CUT PRIOR TO DEMOLITION. FAILURE TO PROVIDE A CLEAN EDGE MAY RESULT IN ADDITIONAL DEMOLITION AND NEW PAVEMENT INSTALLATION PAID FOR AND EXECUTED BY THE CONTRACTOR.
23. LIMITS OF CURB AND GUTTER DEMOLITION ARE SUBJECT TO THE NEAREST CONSTRUCTION JOINT, CURB AND GUTTER AND WALKS SHALL BE REPAIRED TO THE NEAREST CONSTRUCTION JOINT.
24. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR THE REMOVAL OF EXISTING LANDSCAPE MATERIALS OR SITE FEATURES WHICH THE OWNER ELECTS TO RETAIN.
25. DEMOLITION WITHIN THE DRIP-LINE OF EXISTING SPECIMEN TREES SHALL BE ACCOMPLISHED UTILIZING MANUAL PROCEDURES WITHOUT DAMAGING THE ROOT SYSTEM OF THE TREE(S).
26. THE CONTRACTOR SHALL NOT CONSIDER DEMOLITION DESIGNATIONS AND NOTES TO BE ALL-INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT AND ASSESS EACH AREA AND TO PERFORM THE DEMOLITION AS REQUIRED TO ACCOMMODATE THE SCHEDULED NEW CONSTRUCTION.

STAKING REQUIREMENTS:

1. SURVEYING WORK PERFORMED BY THE CONTRACTOR SHALL BE SUFFICIENT AND ACCURATE TO CONSTRUCT THE WORK IN ACCORDANCE WITH THE SITE WORK CONSTRUCTION DRAWINGS. LAYOUT AND STAKING WORK SHALL BE IN ACCORDANCE WITH GENERAL ACCEPTED SURVEYING PRACTICES AND PROVISIONS OF THE CONTRACT.
2. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR ACTUAL BUILDING DIMENSIONS. CONTRACTOR SHALL NOT STAKE BUILDING DIMENSIONS FROM THE BUILDING(S) SHOWN ON THE SITE WORK CONSTRUCTION DRAWINGS; REFERENCES IN THESE DOCUMENTS TO BUILDING SQUARE FOOTAGES ARE FOR OWNER'S PURPOSES ONLY. DO NOT RELY ON THESE NUMBERS FOR ANY OTHER PURPOSE.
3. CONTRACTOR SHALL STAKE BUILDING CORNERS AND HAVE APPROVAL FROM THE ARCHITECT AND/OR SITE DESIGN PROFESSIONAL BEFORE COMMENCING THE CONSTRUCTION OF ANY FOOTINGS.
4. DIMENSIONS SHOWN ARE TO THE FACE OF CURB(S), UNLESS OTHERWISE NOTED. ANGLES ARE 90° (INCLUDING STREET CENTER-LINES) UNLESS NOTED OTHERWISE.
5. CURB AND GUTTER RADII ARE 5.0 FT, UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE PRESERVATION AND OR PERPETUATION OF EXISTING RIGHT-OF-WAY MONUMENTS. BENCHMARKS CONTROL POINTS AND REFERENCE MARKS (AS APPLICABLE) WITHIN THE CONTRACTORS AREA OF WORK, THE CONTRACTOR SHALL NOT DISTURB OR REMOVE EXISTING RIGHT-OF-WAY MONUMENTS, BENCHMARKS CONTROL POINTS AND REFERENCE MARKS WITHOUT THE PERMISSION OF MORGAN COUNTY. AND CONTRACTOR SHALL BEAR THE EXPENSE OF RESETTING EXISTING RIGHT-OF-WAY MONUMENTS, BENCHMARKS CONTROL POINTS AND REFERENCE MARKS (AS APPLICABLE) WITHIN THE RIGHT-OF-WAY BE DISTURBED OR REMOVED WITH OR WITHOUT PERMISSION. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 15 WORKING DAYS NOTICE TO MORGAN COUNTY PRIOR TO DISTURBANCE OR REMOVAL OF EXISTING RIGHT-OF-WAY MONUMENTS, BENCHMARKS CONTROL POINTS AND REFERENCE MARKS. THE CONTRACTOR SHALL UTILIZE THE SERVICES OF A GEORGIA LICENSED LAND SURVEYOR TO RESET DISTURBED OR REMOVED RIGHT-OF-WAY MONUMENTS, BENCHMARKS CONTROL POINTS AND REFERENCE MARKS OR PROVIDE WITNESS MONUMENTS, AND FILE THE REQUIRED DOCUMENTATION WITH MORGAN COUNTY.
7. THE CONTRACTOR (UNLESS OTHERWISE INSTRUCTED BY THE OWNER) SHALL PROVIDE STAKING AND LAYOUT SERVICES, INCLUDING BUT NOT LIMITED TO, CENTERLINE STAKES, ADDITIONAL LINES, CONNECTIONS, RAMPS, SLOPE STAKES, GRADE STAKES, CONSTRUCTION BENCHMARKS AND REFERENCE STAKES LOCATING DRAINAGE, ROADWAY, AND UTILITIES NECESSARY FOR THE PROJECT. ALIGNMENT CONTROL ESTABLISHED BY THE CONTRACTOR SHALL BE APPROVED BY THE REPRESENTATIVES SHALL BE FURNISHED TO THE SITE DESIGN PROFESSIONAL.
8. THE CONTRACTOR SHALL VERIFY ALL INVERTS OF EXISTING STORM AND SANITARY SEWER TIE-INS AND ALL GRADES AT EXISTING PAVEMENT TIE-INS BEFORE PROCEEDING WITH ANY SITE WORK.
9. ALL CONTROL SHALL BE VERIFIED BEFORE PROCEEDING, SURVEYOR SHALL VERIFY INVERTS AT ALL GRAVITY STORM AND SEWER TIE IN POINTS BEFORE PROCEEDING, SURVEYOR SHALL VERIFY TIE POINT ELEVATIONS AT ALL ACCESS POINTS BEFORE PROCEEDING.

CLEAR AND GRUB REQUIREMENTS:

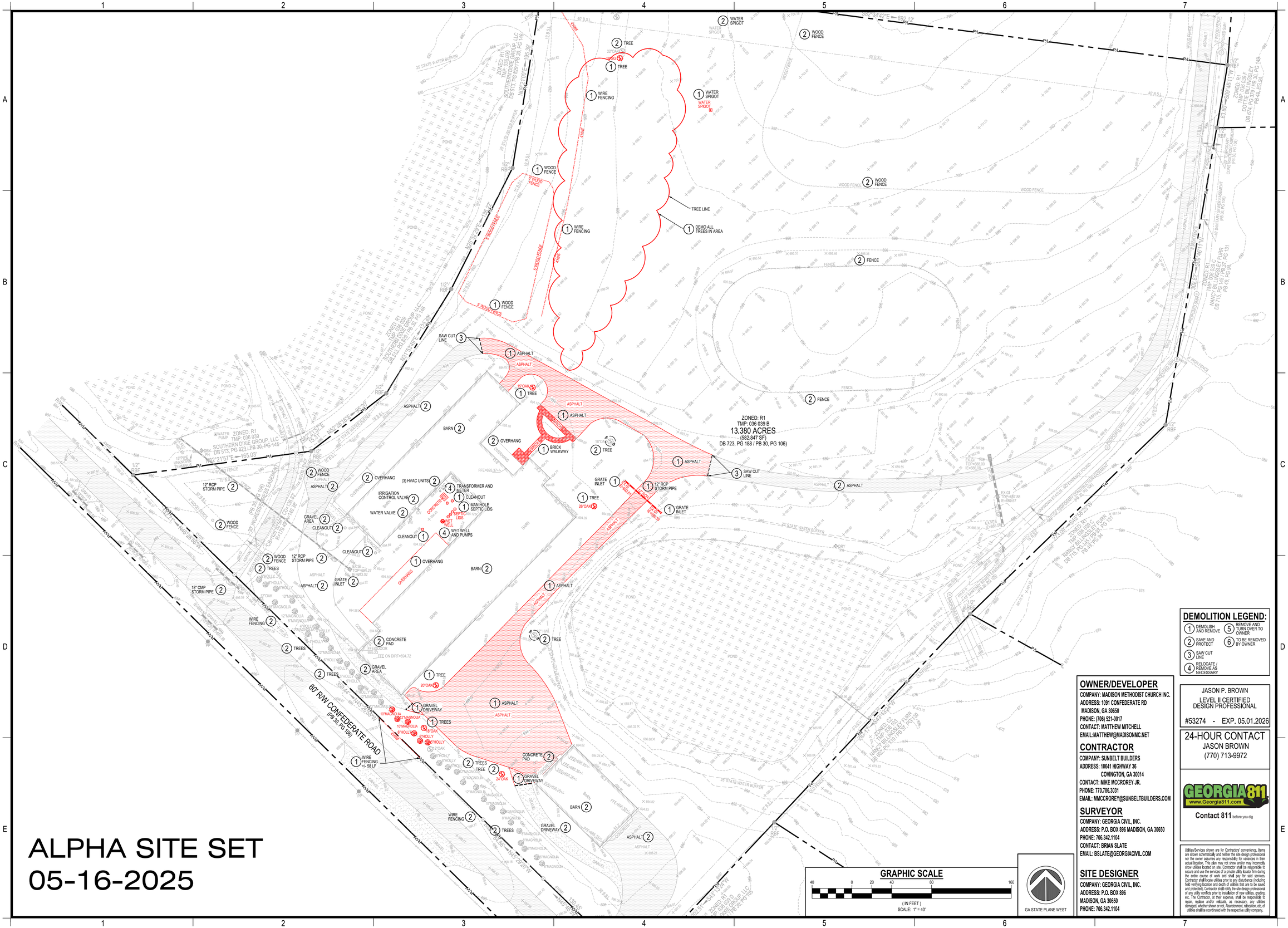
1. THE CONTRACTOR SHALL REVIEW PLANS AND IDENTIFY AND SAFELY MARK ALL PLANTS AND TREES TO BE SAVED, THE CONTRACTOR SHALL PROTECT ALL PLANTS AND TREES TO BE SAVED THROUGH OUT THE CONTRACT. THIS SHALL INCLUDE PROHIBITING ANY WORK WITHIN THE DRIP LINE OF THE TREE EXCEPT UNDER THE SUPERVISION OF A LICENSED LANDSCAPE ARCHITECT. THIS INCLUDES NOT PARKING ANY EQUIPMENT OR HAVING ANY STORAGE AREAS WITHIN THE DRIP LINE OF THE TREE EXCEPT UNDER THE SUPERVISION OF A LICENSED LANDSCAPE ARCHITECT.
2. ALL AREAS TO BE CLEARED AND GRUBBED SHALL BE SURVEYED IN THE FIELD TO ESTABLISH THE APPROPRIATE LIMITS OF WORK.
3. THE CONTRACTOR SHALL TAKE WHAT EVER MEASURES NECESSARY TO LOCATE AND PROTECT EXISTING UTILITIES, STRUCTURES, AND OTHER FACILITIES TO REMAIN.
4. ALL TREES, SHRUBS, STUMPS, ROOTS AND OTHER DEBRIS SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A LEGAL MANNER.
5. NO BURNING SHALL BE ALLOWED ON THE SITE.

COMPACTION FOR UTILITY INSTALLATION:

1. ANALYTICAL COMPACTION RESULTS SHALL BE SUBMITTED TO MORGAN COUNTY ENGINEERING DEPARTMENT (OR SIMILAR DEPARTMENT), THE FOLLOWING APPLIES TO STORMWATER, SANITARY SEWER, AND WATER:
   a. BACKFILL UNDER PERMANENT CONCRETE OR BITUMINOUS PAVEMENT, AND AS ELSEWHERE SPECIFIED OR INDICATED ON THE PLANS, SHALL BE APPROVED BANK-RUN SAND OR GRAVEL OR CRUSHED STONE FREE FROM LARGE STONES AND CONTAINING NOT MORE THAN TEN PERCENT (10%) BY WEIGHT OF LOAM OR CLAY. THIS BACKFILL SHALL BE COMPACTED TO ONE HUNDRED PERCENT (100%) AS DETERMINED BY THE MODIFIED PROCTOR TEST FROM PIPE BEDDING TO TWO (2) FEET BELOW TRENCH TOP. MECHANICAL VIBRATING EQUIPMENT SHALL BE USED TO ACHIEVE THE REQUIRED COMPACTION. PAVEMENT SHALL BE REPLACED IMMEDIATELY AFTER THE BACKFILLING IS COMPLETED.
   b. BACKFILL UNDER GRAVEL OR CRUSHED STONE SURFACED ROADWAYS SHALL BE THE APPROVED SUITABLE EXCAVATED MATERIAL PLACED IN SIX (6) INCH LAYERS THOROUGHLY COMPACTED FOR THE FULL DEPTH AND WIDTH OF THE TRENCH, CONFORMING TO THE COMPACTION, DENSITY COMPACTION METHOD AND MATERIALS AS SPECIFIED IN "2" ABOVE.
   c. BACKFILL IN UNPAVED AREAS SHALL BE COMPACTED WITH MECHANICAL VIBRATING EQUIPMENT TO NINETY PERCENT (90%) AS DETERMINED BY THE MODIFIED PROCTOR TEST. BACKFILL MATERIAL FROM PIPE BEDDING TO GROUND SURFACE SHALL BE EXCAVATED FREE FROM LARGE STONES & OTHER DEBRIS.

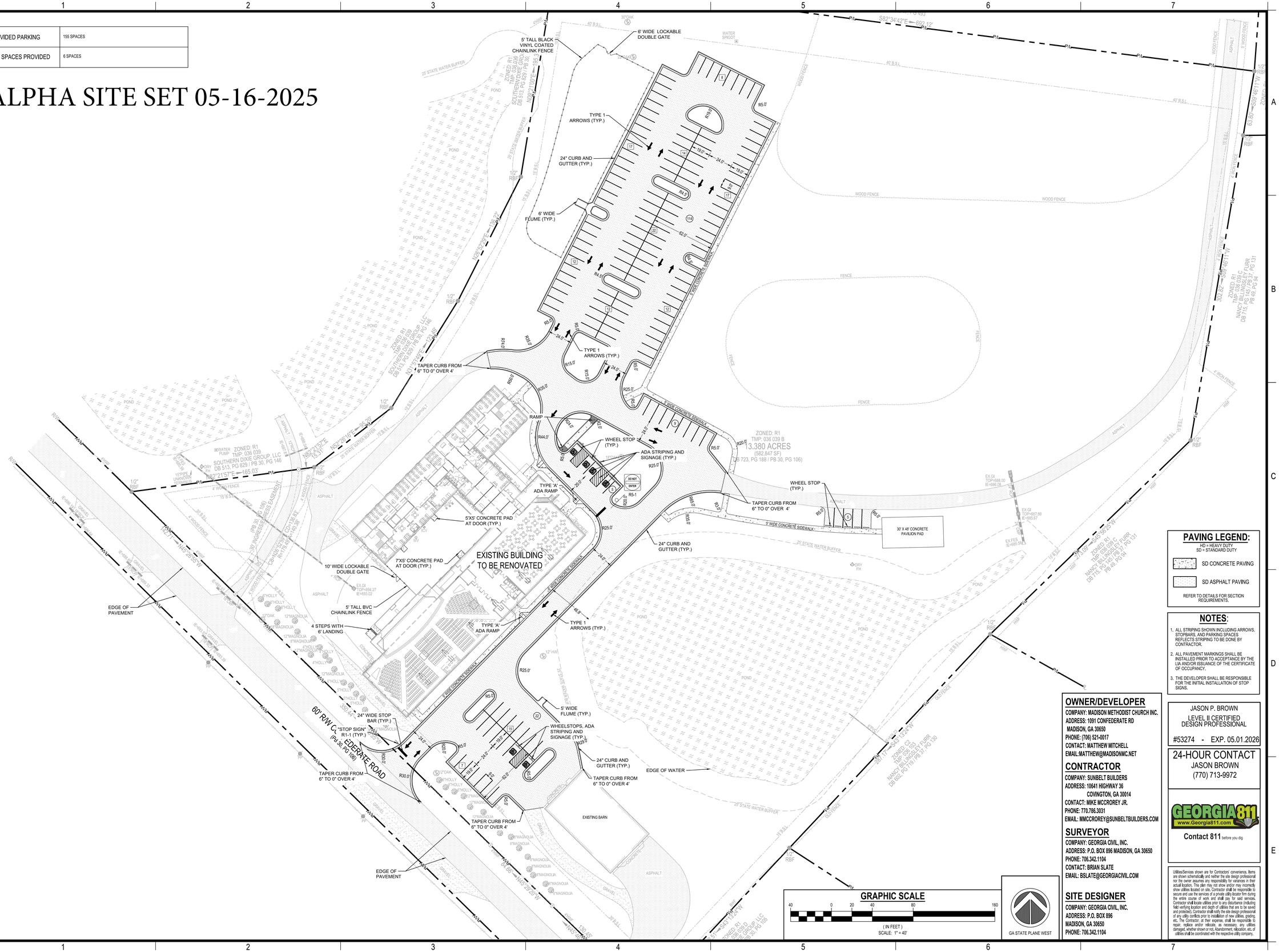
GRADING / EARTHWORK REQUIREMENTS:

1. PRIOR TO STARTING ANY CUTS OR FILLS, THE CONTRACTOR SHALL STRIP AND STOCKPILE ALL TOPSOIL. STRIPPING OF TOPSOIL CAN ONLY COMMENCE AFTER THE CLEAR AND GRUB OPERATIONS ARE COMPLETE IN THAT AREA. TOPSOIL SHALL BE STOCKPILED IN AREAS DESIGNATED ON THE PLANS OR APPROVED WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL REVIEW THE SOILS REPORTS. BORING LOGS AND WHEN NECESSARY HIS OWN FIELD VERIFICATION SO AS TO BE FAMILIAR WITH THE DEPTH OF TOPSOIL. THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PREVENT OVER AND UNDER REMOVAL.
2. UNLESS OTHERWISE NOTED, THE GRADES SHOWN ON THE PLANS ARE FINISHED GRADES, THEREFORE, PAVEMENT, FLOORS, SUBBASE AND OTHER IMPROVEMENTS MUST BE SUBTRACTED TO CALCULATE SUBGRADE ELEVATIONS. THE CONTRACTOR SHALL COORDINATE THE STAKING OF THE SITE GRADING WITH THE SURVEYOR AND ENGINEER OF RECORD BEFORE PROCEEDING WITH CONSTRUCTION STAKING.
3. THE CONTRACTOR SHALL MAINTAIN A SURVEY GRID OF NOT LESS THAN 100' X 100' OR OTHER MEANS ACCEPTABLE TO THE OWNERS REPRESENTATIVE THAT SHALL INDICATE LOCATION AND AMOUNT OF CUT OR FILLS REMAINING. AT SUBGRADE THIS GRID SHALL BE 50' X 50' WITH LOCATION AND FINAL GRADE MARKED CLEARLY. OR SURVEY SHALL BE COMPLETED DEMONSTRATING THAT THE SUBGRADE IS +/- 0.1 FEET OF REQUIRED SUBGRADE.
4. UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL RETAIN AND PAY ALL COST FOR SOIL COMPACTION TESTING TO BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY. EACH LIFT SHALL BE COMPACTED, COMPACTION TESTING SHALL BE DONE EVERY 2000 SQUARE FEET. IN TRENCHES, COMPACTION TESTING SHALL BE DONE EVERY OTHER LIFT WITH AT LEAST 1 TEST FOR EVERY 100 LINEAR FEET.
5. COMPACTION REQUIREMENTS SHALL BE THOSE OUTLINED IN THE GEOTECHNICAL EVALUATION. IF THE GEOTECHNICAL EVALUATION IS NOT CLEAR OR DOES NOT GIVE REQUIREMENTS THE FOLLOWING SHALL BE USED. UNDER AND TO 2D FEET OUTSIDE BUILDING FOOTPRINT, COMPACTION TESTING SHALL BE DONE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY PER ASTM D 1557 (MODIFIED PROCTOR), ALL LANDSCAPE AREAS SHALL BE COMPACTED TO 90% MAXIMUM DENSITY PER ASTM D 1557 (MODIFIED PROCTOR). THE TESTING LAB SHALL STAKE IN SUBGRADE AS DIRECTED BY THE (NUCLEAR METHOD) WITH PROCTORS FOR EACH SOIL TYPE.
6. UNLESS OTHERWISE NOTED IN THE GEOTECHNICAL REPORT OR ON THE DRAWINGS, THE ON SITE MATERIAL SHALL BE USED TO MAKE FILLS. ALL MATERIAL TO BE USED FOR FILL SHALL BE FREE OF ORGANICS, FROZEN MATERIALS, CONTAMINATED MATERIALS, DEBRIS AND ANY ROCKS LARGER THAN 4 INCHES, FOR FILL PLACEMENT WITHIN 1 FOOT OF SUBGRADE, NO ROCK SHALL BE GREATER THAN 2 INCHES IN DIAMETER. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH DRYING, SEGREGATING OR OTHER REQUIRED METHODS TO TREAT SOILS TO MEET COMPACTION AND OTHER REQUIREMENTS.
7. FILLS SHALL BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES IN ALL AREAS.
8. IF IMPORTED MATERIAL IS REQUIRED, THE SOURCE AND A RANDOM COMPOSITE SAMPLE SHALL BE REVIEWED BY THE TESTING LABORATORY PRIOR TO BEING BROUGHT TO SITE. THE TESTING LABORATORY SHALL STATE PERCENT PASSING NO. 200 SIEVE. THIS MATERIAL DOES NOT EXCEED THE EXISTING ON SITE MATERIAL, OR IN NO CASE GREATER THAN 35%. THEY SHALL ALSO VERIFY CONSISTENCY WITH EXISTING ON SITE MATERIALS AND ALL OTHER REQUIREMENTS. WAIVERS TO THESE REQUIREMENTS CAN ONLY BE GIVEN JOINTLY BY OWNER AND THE GEOTECHNICAL ENGINEER THAT PREPARED THE GEOTECHNICAL REPORT.
9. THE TESTING LAB MAY RESTRICT SOME ON SITE MATERIALS FROM BEING USED AS FILL IN BUILDING OR PAVEMENT AREAS WHEN IT IS THEIR OPINION THAT THE MATERIAL WILL NOT MEET REQUIREMENTS STATED HERE OR IN THE GEOTECHNICAL REPORT, IF SUCH CONDITIONS DO EXIST AND OTHER MATERIAL IS NOT AVAILABLE ON SITE, THE OWNERS REPRESENTATIVE MUST AUTHORIZE IN WRITING THE USE OF IMPORTED MATERIAL UNLESS THERE WILL BE NO ADDITION COST TO THE CONTRACT.
10. THE CONTRACTOR SHALL PROTECT ALL AREAS OF THE SITE FROM EROSION, WATER AND GROUND WATER OPERATIONS FROM WEATHER AND GROUND WATER INCLUDING KEEPING POSITIVE DRAINAGE, DIVERTING DRAINAGE, DEWATERING AND SEALING DISTURBED AREAS WITH A STEEL DRUM ROLLER PRIOR TO INCLEMENT WEATHER.
11. PRIOR PLACEMENT OF FILLS, IN AREAS WHERE THE FINAL DEPTH WILL BE LESS THAN 4 FEET, THE AREA SHALL BE PROOF ROLLED WITH A 10 TON ROLLER OR A LOADED 10 WHEEL DUMP TRUCK, SOFT AREAS SHALL BE SCARIFIED, DRIED AND RE-COMPACTED PRIOR TO FILL BEING PLACED, RETEST BY PROOF ROLL AS NECESSARY.
12. ALL FINAL SUBGRADE UNDER PROPOSED PAVEMENT, BUILDING OR OTHER STRUCTURE SHALL BE PROOF ROLLED AS DESCRIBED ABOVE FOR THE IDENTIFICATION OF SOFT AREAS, AREAS FOUND TO BE UNACCEPTABLE TO THE GEOTECHNICAL ENGINEER OF RECORD SHALL BE REMEDIATED AS NECESSARY. SOFT AREAS SHALL BE SCARIFIED, DRIED AND RECOMPACTED, RETEST BY PROOF ROLL AS NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL PROOF ROLLS WITH THE GEOTECHNICAL ENGINEER AND SHALL HAVE THE GEOTECHNICAL ENGINEER OR THE GEOTECHNICAL ENGINEER'S TECHNICIAN ON SITE AT THE TIME OF ALL PROOF ROLLING.
13. TRENCH EXCAVATION REQUIRING SHEETING, SHORING OR OTHER STABILIZING DEVICES SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER AND MEET ALL OSHA REQUIREMENTS, ALL EXCAVATIONS SHALL MAINTAIN SLOPES IN ACCORDANCE WITH LOCAL, STATE, AND OSHA REQUIREMENTS. NO STOCKING OF MATERIAL CLOSE TO AN OPEN CUT OR STEEP SLOPE SHALL BE PERMITTED IN AN EFFORT TO PREVENT CAVE-INS.
14. TRENCH EXCAVATIONS SHALL BE MADE UNIFORM AND STRAIGHT TO WIDTHS DETERMINED BY MORGAN COUNTY. IF NO GUIDELINES FROM MORGAN COUNTY EXIST, THE FOLLOWING SHALL BE USED: (FOR PIPES SIX INCHES OR LESS IN DIAMETER WIDTH SHALL BE THE OUTSIDE DIAMETER OF PIPE PLUS EIGHTEEN INCHES (FOR PIPES GREATER THAN SIX (6) FEET). ADDITIONAL WIDTH SHALL ONLY BE ALLOWED WHEN COMPACTION EQUIPMENT LIMITATIONS REQUIRE AND ONLY AFTER APPROVAL OF THE ENGINEER OF RECORD, NO MORE TRENCH SHALL BE OPEN IN ONE DAY THAN CAN BE PROPERLY BACKFILLED IN THAT SAME DAY TO MINIMIZE WEATHER AND GROUND WATER EFFECTS. TRENCHES SHALL BE EXCAVATED TO ACCURATELY GRADE AND ALIGN PIPE AS SHOWN ON THE PLANS. NO MORE TRENCH SHALL BE OPEN THAN CAN BE PROPERLY BACKFILLED IN THAT SAME DAY UNDER, ALONG AND OVER THE PIPE. CARE SHALL BE GIVEN WHILE BACKFILLING AROUND PIPES TO PREVENT DAMAGE TO THE PIPES INCLUDING: PLACING BACKFILL/BEDDING BY HAND, USING HAND OPERATED PLATE TAMPS OR JUMPING JACKS, AND OTHER LOAD RESTRICTIVE TECHNIQUES UNTIL FILLS ARE A MINIMUM OF 2 FEET OR MANUFACTURERS RECOMMEND DEPTH, WHICH EVER IS GREATER, ABOVE THE TOP OF THE PIPE. COMPACTION REQUIREMENTS ARE SET FORTH IN THE SPECIFICATIONS AND SHALL BE AS THE DRAWINGS OR NOTED AND.
15. IF ROCK IS ENCOUNTERED THAT WAS NOT INDICATED ON THE PLANS OR GEOTECHNICAL REPORT, THE AREA FOR REMOVAL SHALL BE MEASURED AND REVIEWED WITH THE OWNER'S REPRESENTATIVE PRIOR TO ROCK REMOVAL. ROCK WILL BE DEFINED AS THE NATURAL EARTH MATERIALS THAT CAN NOT BE REMOVED WITH A D9 DOZER WITH A SINGLE TOOTH RIPPER.
16. WHERE ROCK IS ADJACENT TO A STRUCTURE OR UTILITY, THE ROCK SHALL BE REMOVED TO A MINIMUM OF 6 INCHES BELOW AND 1 TIMES THE DIAMETER, BUT NOT LESS THAN 1 FOOT OR GREATER THAN 2 FEET ON ANY SIDE.
17. NO EXPLOSIVES SHALL BE ALLOWED UNTIL ALL PERMITS ARE GRANTED AND THE OWNER HAS SIGNED OFF, PRE AND POST BLAST REPORTS SHALL BE KEPT AND RECORDED, ALL STRUCTURES WITHIN THE AREA OF THE BLAST SHALL RECEIVE A PRE-BLAST SURVEY. ALL BLASTING SHALL BE PERFORMED BY A LICENSED BLASTER.
18. UNLESS OTHERWISE NOTED ON THE DRAWINGS, THE CONTRACTOR SHALL REMOVE ALL EXCESS TOPSOIL, CUT MATERIAL OR WASTE MATERIAL FROM SITE AND DISPOSE OF IN A LEGAL MANNER.
19. NO FILL SHALL BE PLACED ON EXISTING GROUND WITHIN THE LIMITS OF DISTURBANCE UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL AND OTHER DELETERIOUS MATERIAL, SCARIFIED TO A MINIMUM DEPTH OF 8 INCHES OR TO A DEPTH RECOMMENDED BY THE GEOTECHNICAL REPORT AND INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO THE PLACING OF FILL. DELETERIOUS MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, ORGANIC SOILS, DEBRIS OR RUBBISH SHALL BE REMOVED FROM AREAS TO BE PLACED IN FILL. UNSUITABLE MATERIALS, SUCH AS TOPSOIL, WEATHERED BEDROCK, ETC., SHALL BE REMOVED AS REQUIRED BY GEOTECHNICAL ENGINEER (AND ENGINEERING GEOLOGIST, WHERE EMPLOYED) FROM AREAS TO RECEIVE COMPACTED FILL OR DRAINAGE STRUCTURES. CONTRACTOR SHALL SET FILL STAKES TO ENSURE THAT UNSUITABLE MATERIAL IS REMOVED AND REPLACED WITH COMPACTED FILL. PLACE AND COMPACT IN 8 INCH LIFTS. ALL SOILS WITHIN 12 INCHES OF PAVEMENT SUBGRADE SHALL BE COMPACTED TO AT LEAST 98% OF THEIR STANDARD PROCTOR MAXIMUM DRY DENSITY.
20. GRADED AREAS TO


ZONED: R1
TMP: 036 039 B
13.380 ACRES
(582,847 SF)
DB 723, PG 188 / PB 30, PG 106)
60' R/W CONFEDERATE ROAD
(PB 30, PG 106)
ZONED: R1
TMP: 036 039
SOUTHERN DIXIE GROUP, LLC
DB 513, PG 629 / PB 30, PG 146
ZONED: R1
TMP: 036 039 C
NANCY BILLINGSLEY FURR
DB 715, PG 131 / PB 30, PG 106
ZONED: R1
TMP: 036 039 E
DOTTIE LOU BUSSEY
DB 674, PG 379 / PB 48, PG 94
ZONED: R1
TMP: 036 039 F
DOTTIE LOU BUSSEY
DB 674, PG 379 / PB 48, PG 94
ZONED: R1
TMP: 036 039 D
SOUTHERN DIXIE GROUP, LLC
DB 513, PG 629 / PB 30, PG 146
ZONED: R1
TMP: 036 039 C
NANCY BILLINGSLEY FURR
DB 715, PG 131 / PB 30, PG 106
ZONED: R1
TMP: 036 039 C
NANCY BILLINGSLEY FURR
DB 715, PG 131 / PB 30, PG 106
ZONED: R1
TMP: 036 039 C
NANCY BILLINGSLEY FURR
DB 715, PG 131 / PB 30, PG 106
ZONED: R1
TMP: 036 039 D
SOUTHERN DIXIE GROUP, LLC
DB 513, PG 629 / PB 30, PG 146

PROVIDED PARKING	155 SPACES
ADA SPACES PROVIDED	6 SPACES

ALPHA SITE SET 05-16-2025

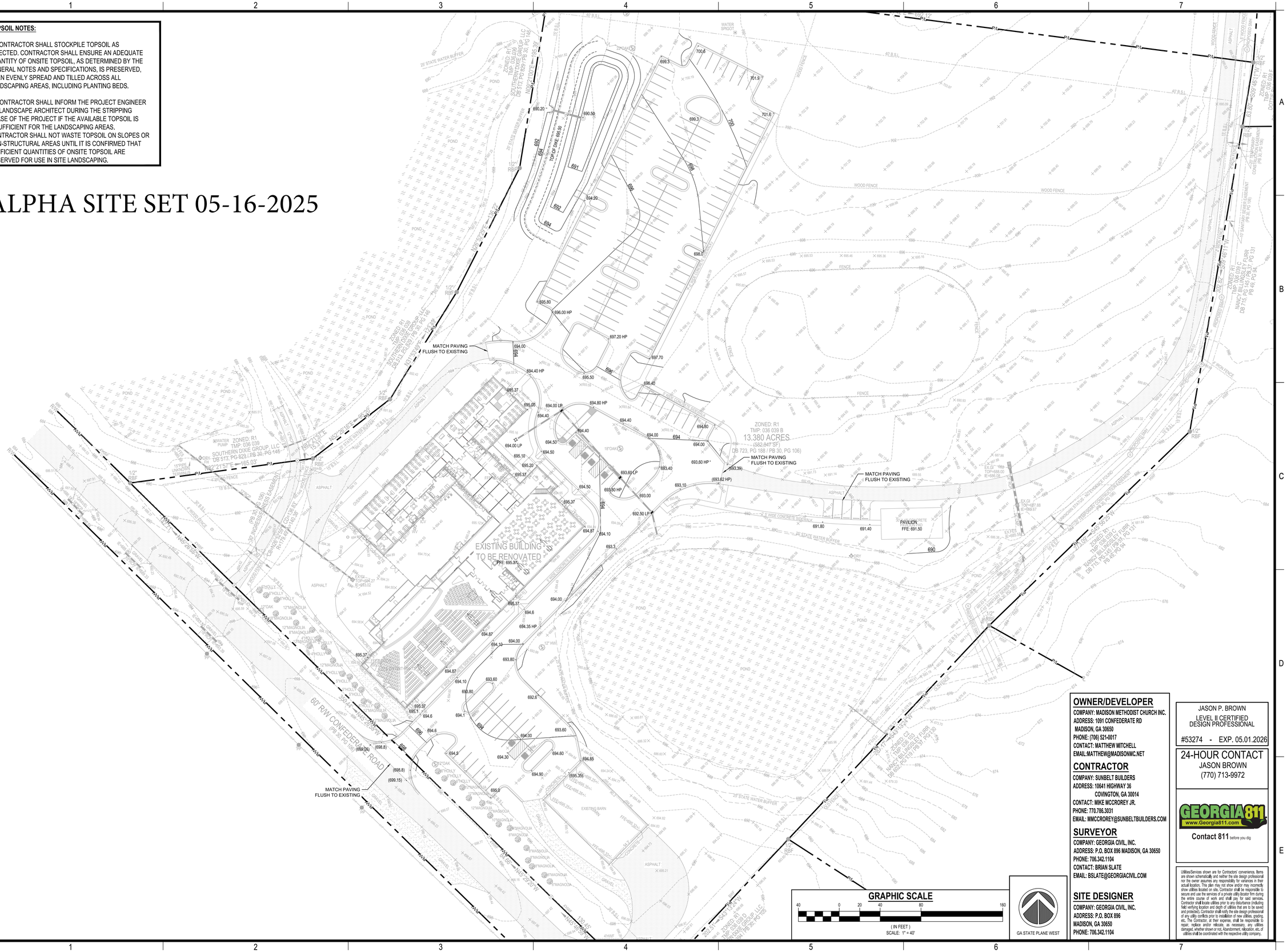

5' TALL BLACK VINYL COATED CHAINLINK FENCE
6' WIDE LOCKABLE DOUBLE GATE
TYPE 1 ARROWS (TYP.)
24" CURB AND GUTTER (TYP.)
6' WIDE FLUME (TYP.)
TAPER CURB FROM 6" TO 0" OVER 4'
RAMP
WHEEL STOP (TYP.)
ADA STRIPING AND SIGNAGE (TYP.)
TYPE 'A' ADA RAMP
5'X5' CONCRETE PAD AT DOOR (TYP.)
7'X5' CONCRETE PAD AT DOOR (TYP.)
10' WIDE LOCKABLE DOUBLE GATE
5' TALL BVC CHAINLINK FENCE
4 STEPS WITH 6' LANDING
EXISTING BUILDING TO BE RENOVATED
EDGE OF PAVEMENT
24" WIDE STOP BAR (TYP.)
"STOP SIGN" R1-1 (TYP.)
60' R/W
EDERATE ROAD
(PB 30, PG 106)
5' WIDE FLUME (TYP.)
WHEELSTOPS, ADA STRIPING AND SIGNAGE (TYP.)
EDGE OF WATER
EXISTING BARN
30' X 48' CONCRETE PAVILION PAD
ZONED: R1
TMP: 036 039 B
13.380 ACRES
(582,847 SF)
DB 723, PG 188 / PB 30, PG 106
ZONED: R1
TMP: 036 039
SOUTHERN DIXIE GROUP, LLC
DB 513, PG 629 / PB 30, PG 146
ZONED: R1
TMP: 036 039 B
NANCY BLUNKSLEY FURR
DB 615, PG 167 / PB 37, PG 101
PB 45, PG 94
ZONED: R1
TMP: 036 039 C
NANCY BLUNKSLEY FURR
DB 615, PG 167 / PB 37, PG 101
PB 45, PG 94
ZONED: R1
TMP: 036 039 B
NANCY BLUNKSLEY FURR
DB 602, PG 119 / PB 37, PG 180
ZONED: R1
TMP: 036 039 B
SOUTHERN DIXIE GROUP, LLC
DB 513, PG 629 / PB 30, PG 146
ZONED: C2
TMP: 036 039
SOUTHERN DIXIE GROUP, LLC
DB 513, PG 629 / PB 30, PG 146
ZONED: R1
TMP: 036 039 C
SOUTHERN DIXIE GROUP, LLC
DB 513, PG 629 / PB 30, PG 146
ZONED: R1
TMP: 036 039 C
NANCY BLUNKSLEY FURR
DB 615, PG 167 / PB 37, PG 101
PB 45, PG 94
ZONED: R1
TMP: 036 039 C
NANCY BLUNKSLEY FURR
DB 615, PG 167 / PB 37, PG 101
PB 45, PG 94
WOOD FENCE
FENCE
ASPHALT
POND
25' STATE WATER BUFFER
40' B.S.L.
15' B.S.L.
30' B.S.L.
1/2" RBF
1/2" RBF
1/2" RBF

TOPSOIL NOTES:

1. CONTRACTOR SHALL STOCKPILE TOPSOIL AS DIRECTED. CONTRACTOR SHALL ENSURE AN ADEQUATE QUANTITY OF ONSITE TOPSOIL, AS DETERMINED BY THE GENERAL NOTES AND SPECIFICATIONS, IS PRESERVED, THEN EVENLY SPREAD AND TILLED ACROSS ALL LANDSCAPING AREAS, INCLUDING PLANTING BEDS.

2. CONTRACTOR SHALL INFORM THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT DURING THE STRIPPING PHASE OF THE PROJECT IF THE AVAILABLE TOPSOIL IS INSUFFICIENT FOR THE LANDSCAPING AREAS. CONTRACTOR SHALL NOT WASTE TOPSOIL ON SLOPES OR NON-STRUCTURAL AREAS UNTIL IT IS CONFIRMED THAT SUFFICIENT QUANTITIES OF ONSITE TOPSOIL ARE RESERVED FOR USE IN SITE LANDSCAPING.

ALPHA SITE SET 05-16-2025


EXISTING BUILDING TO BE RENOVATED
FFE: 695.37
MATCH PAVING FLUSH TO EXISTING
60' R/W CONFEDERATE ROAD (PUBLIC ROAD)
(PB 30 PG 106)
ZONED: R1
TMP: 036 039 B
13.380 ACRES
(582,647 SF)
DB 723, PG 188 / PB 30, PG 106)
PAVILION
FFE: 691.50
TOP OF DIKE: 696.50
SOUTHERN DIXIE GROUP, LLC
DB 513, PG 829 / PB 39, PG 146
TMP: 036 039
ZONED: R1
NANCY P. BILLINGSLEY FURR
DB 715, PG 137 / PB 37, PG 131
PB 49, PG 94
DB 802, PG 197
DB 715, PG 137
PB 49, PG 94
EXISTING BARN
FFE=695.32
WATER SPIGOT
POND
WOOD FENCE
FENCE
IRON FENCE
ASPHALT
GRAVEL
CONCRETE
EXISTING STATUS - 10' ELECTRIC EASEMENT (DB 715, PG 137)
EXISTING STATUS - 10' SANITARY SEWER EASEMENT (PB 30, PG 106)
EXISTING STATUS - 10' SANITARY SEWER EASEMENT (PB 49, PG 94)
25' STATE WATER BUFFER
47' B.S.L.
15' B.S.L.
30' B.S.L.
24' STATE WATER BUFFER
12" RBF
1/2" RBF
5/8" RBF
1/2" RBF
1/2" RBF
1/2

STORM LEGEND		
	ACCMP	ALUMINUM COATED CORRUGATED METAL PIPE
	BCCMP	BITUMNOUS COATED CORRUGATED METAL PIPE
	DI	DROP INLET
	DWCB	DOUBLE WING CATCH BASIN
	FES	FLARED END SECTION
	GI	GRATE INLET
	HDPE	HIGH DENSITY POLYETHYLENE
	HGI	HOODED GRATE INLET
	HW	HEADWALL
	JB	JUNCTION BOX
	OCS	OUTLET CONTROL STRUCTURE
		PEDESTAL TOP INLET
	RCP	REINFORCED CONCRETE PIPE
	SWCB-L	LEFT SINGLE WING CATCH BASIN
	SWCB-R	RIGHT SINGLE WING CATCH BASIN

B1 HEADWALL INV:690.20 - 15"

B2 OCS (SEE DETAIL) INV OUT:690.50 - 15"

31.18 LF 15" RCP @ 0.96%

12" WIDE RIP RAP

FLUME

A7 GDOT 1019A DROP INLET (HOODED) GRATE: 694.00 INV IN:689.75 - 12" INV OUT:689.75 - 12"

53.24 LF 12" HDPE @ 0.94%

A5 GRATE INLET GRATE: 694.50 INV OUT:690.25 - 12"

6" PVC RAIN LEADER @ 1% MIN. (TYP.)

86.95 LF 12" HDPE @ 1.04%

A3 GDOT 1019A DROP INLET (HOODED) GRATE: 693.60 INV IN:688.85 - 12" INV OUT:688.85 - 12"

A2 GDOT 1019A DROP INLET (HOODED) GRATE: 692.50 INV IN:688.35 - 12" INV OUT:686.75 - 12"

46.29 LF 12" HDPE @ 1.08%

22.81 LF 12" HDPE @ 0.88%

A1 HEADWALL INV:686.55 - 12"

NOTE: RAINLEADER PVC PIPES SHALL BE CORED INTO STORM STRUCTURES AND GROUTED IN WITH A WATER TIGHT SEAL

EXISTING BUILDING TO BE RENOVATED

12" WIDE RIP RAP

FLUME

60' R/W CONFEDERATE ROAD (PB 30, PG 106)

ZONED: R1
TMP: 036 039 B
13.380 ACRES
(582,847 SF)
DB 723, PG 188 / PB 30, PG 106)

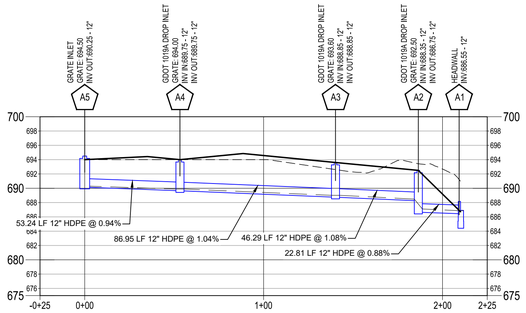
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TMP: 036 039
SOUTHERN DIXIE GROUP, LLC
DB 513, PG 829 | PB 30, PG 146

ZONED: R1
TMP: 036 039
SOUTHERN DIXIE GROUP, LLC
DB 513, PG 829 | PB 30, PG 146

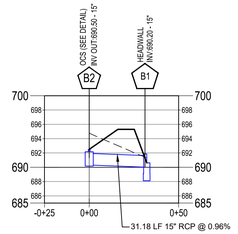
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SOUTHERN DIXIE GROUP, LLC
DB 513, PG 829 | PB 30, PG 146

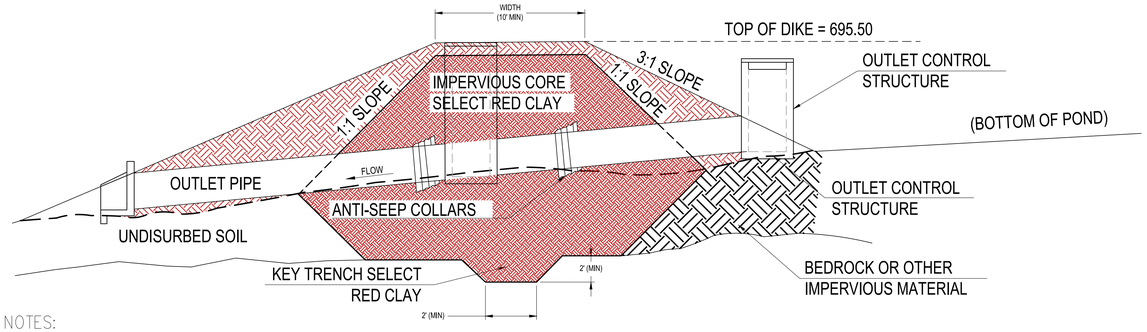
ZONED: R1
TMP: 036 039 C
NANCY BILLINGSLEY FURR
DB 715, PG 145 | PB 57, PG 151

STORM A PROFILE
STA. -0+25 TO STA. 2+25



STORM B PROFILE
STA. -0+25 TO STA. 0+50





NOTES:

1. ALL FILL MATERIAL FOR DAM/DIKE SHALL BE COMPACTED TO 98% MAXIMUM DENSITY AS DETERMINED BY STANDARD PROTOR TEST.
2. SELECT CORE MATERIAL SHALL BE OBTAINED FROM ON-SITE SOURCE AS IDENTIFIED AND DIRECTED BY GEOTECHNICAL ENGINEER.
3. ANTI-SEEP COLLARS/BRICK COLLAR WALLS SHALL BE INSTALLED AT ALL PIPE JOINTS WITHIN LIMITS OF DAM/DIKE.

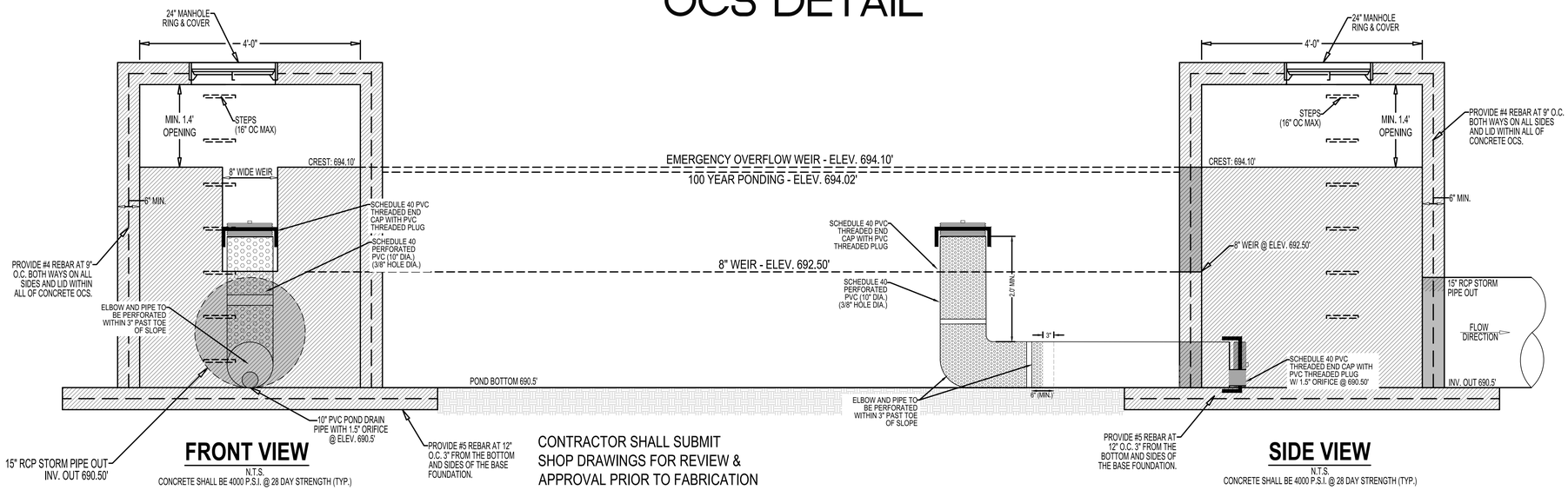
DRY DETENTION BASIN DAM/DIKE

NOT TO SCALE

Line	To	Line	Length (ft)	Incr. Area (ac)	Total Area (ac)	Runoff Coe (C)	Incr C x A	Total C x A	Inlet Time (min)	Time Conc (min)	Rnfall Int (in/hr)	Total Runc (cfs)	Adnl Flow (cfs)	Total Flow (cfs)	Capac Full (cfs)	Veloc (ft/s)	Pipe Size (in)	Pipe Slope (%)	Inv Elev Dn (ft)	Inv Elev Up (ft)	HGL Dn (ft)	HGL Up (ft)	Grnd/Rim (ft)	Grnd/Rim (ft)	Line ID
1	Outfall		22.815	0.49	0.89	0.37	0.18	0.23	0	74.5	3.1	0.71	0	0.72	3.61	3.11	12	0.88	686.55	686.75	686.87	687.1	687.97	692.5	A2-A1
2	1		46.29	0.12	0.4	0.11	0.01	0.05	0	73.2	3.2	0.14	0	0.15	4.01	2.17	12	1.08	688.35	688.85	688.48	689.01	692.5	693.6	A3-A2
3	2		86.954	0.17	0.28	0.13	0.02	0.03	0	69.7	3.3	0.1	0	0.11	3.93	1.58	12	1.04	688.85	689.75	689.01	689.89	693.6	694	A4-A3
4	3		53.236	0.11	0.11	0.09	0.01	0.01	0	0	0	0	0.01	0.01	3.74	0.54	12	0.94	689.75	690.25	689.89	690.29	694	694.5	A5-A4

ALPHA SITE SET 05-16-2025

OCS DETAIL



FRONT VIEW
N.T.S.
CONCRETE SHALL BE 4000 P.S.I. @ 28 DAY STRENGTH (TYP.)

CONTRACTOR SHALL SUBMIT
SHOP DRAWINGS FOR REVIEW &
APPROVAL PRIOR TO FABRICATION

SIDE VIEW
N.T.S.
CONCRETE SHALL BE 4000 P.S.I. @ 28 DAY STRENGTH (TYP.)

CIRCULAR OUTLET CONTROL STRUCTURE

PRECAST OUTLET CONTROL STRUCTURE BOX SHALL EXTEND A MINIMUM OF 6" LOWER THAN THE LOWEST INVERT. PRECAST STRUCTURE SHALL BE OPEN IN THE BOTTOM WHEN DELIVERED TO SITE, AND SHALL BE SET INTO CONCRETE WHEN BASE FOUNDATION IS POURED IN PLACE. SIX INCHES BELOW THE LOWEST INVERT, #5 REBAR SHALL EXTEND THROUGH DRILLED HOLES, ONE FOOT ON CENTER, ON ALL FOUR SIDES. CONTINUOUS SECTIONS OF #5 REBAR SHALL EXTEND THROUGH THE HOLES FORM ONE SIDE OF THE BOX, ACROSS THE INSIDE OF THE BOX, AND THROUGH THE MATCHING HOLE ON THE OTHER SIDE OF THE BOX. THE REBAR SHALL EXTEND A MINIMUM OF 10" BEYOND EACH OUTSIDE FACE OF THE BOX AND BE WIRED TO THE REBAR SET IN THE CONCRETE BASE FOUNDATION. CONCRETE SHALL BE POURED AND FINISHED UP TO THE ELEVATION OF THE LOWEST INVERT ON THE INSIDE AND OUTSIDE OF THE OUTLET CONTROL STRUCTURE BOX.

STORM PIPE PROFILES
SCALE: HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

LEGEND
EXISTING GRADE
PROPOSED GRADE
HGL

OWNER/DEVELOPER
COMPANY: MADISON METHODIST CHURCH INC.
ADDRESS: 1091 CONFEDERATE RD
MADISON, GA 30650
PHONE: (706) 521-0017
CONTACT: MATTHEW MITCHELL
EMAIL:MATTHEW@MADISONMC.NET

CONTRACTOR
COMPANY: SUNBELT BUILDERS
ADDRESS: 10641 HIGHWAY 36
COVINGTON, GA 30014
CONTACT: MIKE MCCROREY JR.
PHONE: 770.786.3031
EMAIL: MMCCROREY@SUNBELTBUILDERS.COM

SURVEYOR
COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896 MADISON, GA 30650
PHONE: 706.342.1104
CONTACT: BRIAN SLATE
EMAIL: BSLATE@GEORGIACIVIL.COM

SITE DESIGNER
COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896
MADISON, GA 30650
PHONE: 706.342.1104

JASON P. BROWN
LEVEL II CERTIFIED
DESIGN PROFESSIONAL
#53274 - EXP. 05.01.2026

24-HOUR CONTACT
JASON BROWN
(770) 713-9972

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Utilities/Services shown are for Contractors' convenience. Items are shown schematically and neither the site design professional nor the owner assumes any responsibility for variances in their actual location. This plan may not show and/or may incorrectly show utilities located on site. Contractor shall be responsible to secure and use the services of a private utility locator firm during the entire course of work and shall pay for said services. Contractor shall locate utilities prior to any disturbance (including field verifying location and depth of utilities that are to be saved and protected). Contractor shall notify the site design professional of any utility conflicts prior to installation of new utilities, grading, etc. The Contractor, at their expense, shall be responsible for repair, replace and/or relocate, as necessary, any utilities damaged, whether shown or not. Abandonment, relocation, etc. of utilities shall be coordinated with the respective utility company.

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Professional Seal

GEORGIA REGISTERED NO. PE021469 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

MADISON METHODIST CHURCH
1091 CONFEDERATE RD
MADISON, GA 30650
ZONING: R1

DRAWING DATE:	01.22.25
DRAWN BY:	MCS
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
04-14-25	ADDRESS COMMENTS

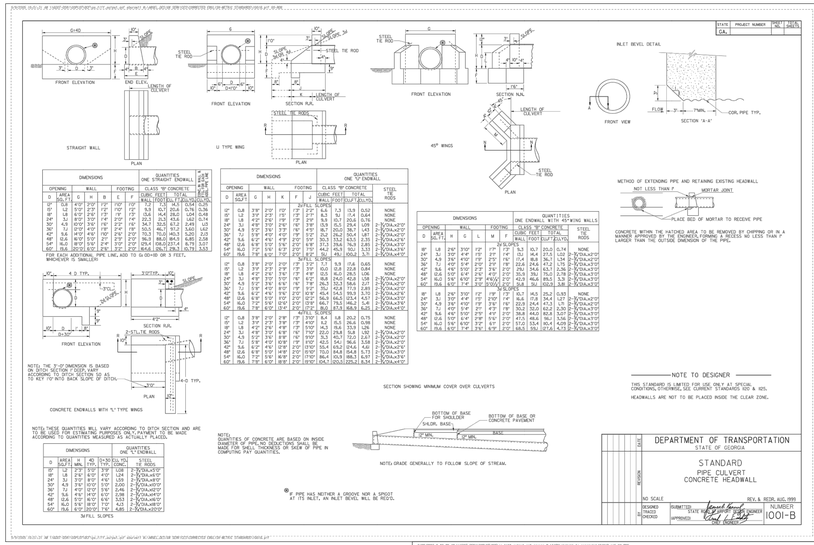
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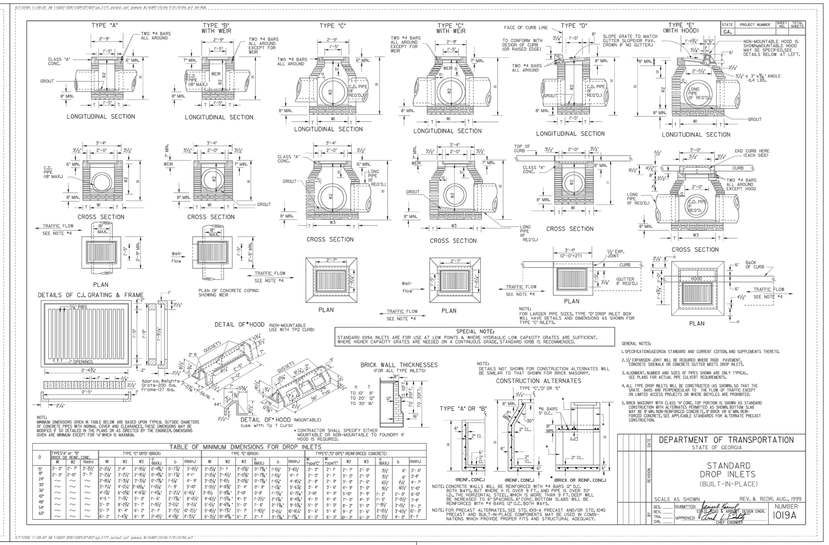
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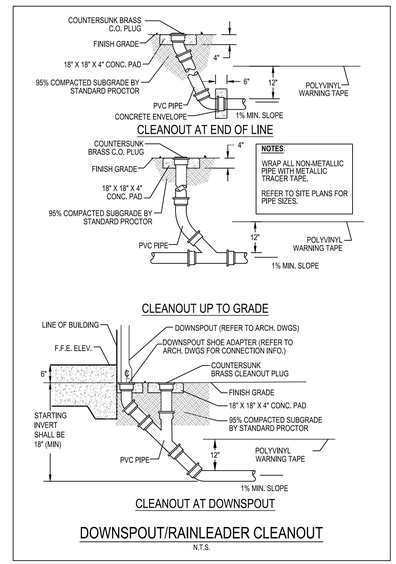
STORMWATER MANAGEMENT PROFILES

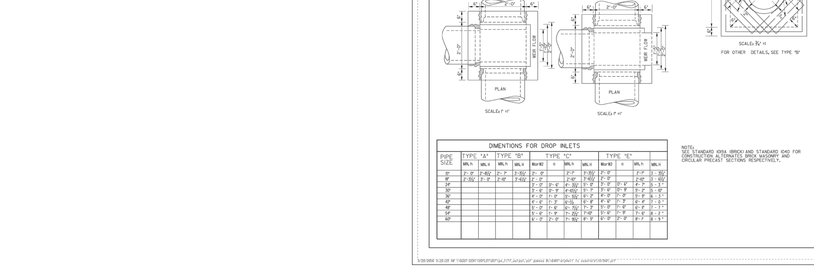
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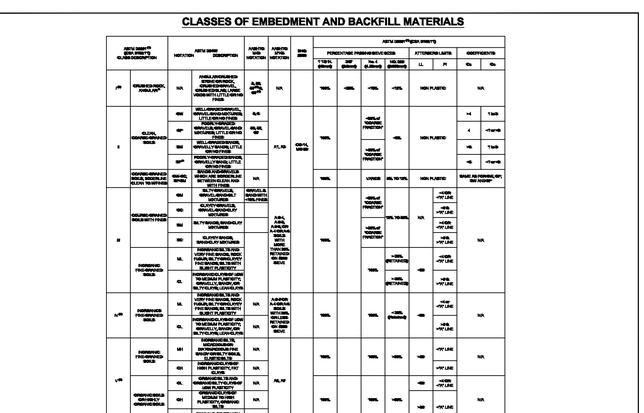


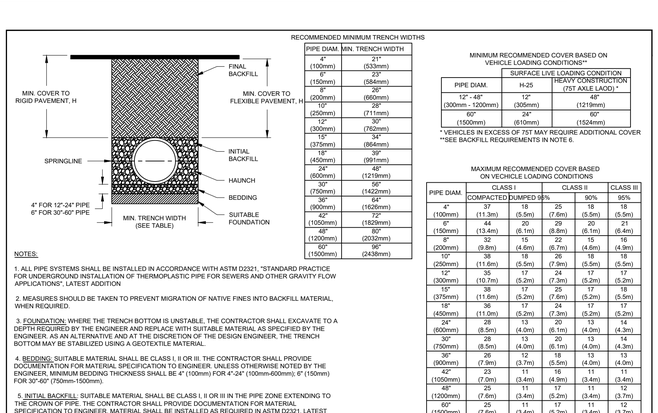












ALPHA SITE SET 05-16-2025

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Professional Seal

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE026852 JASON P. BROWN

Project Information

MADISON METHODIST CHURCH
1091 CONFEDERATE RD
MADISON, GA 30650
ZONING: R1

OWNER/DEVELOPER
COMPANY: MADISON METHODIST CHURCH INC.
ADDRESS: 1091 CONFEDERATE RD
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EMAIL: BSLATE@GEORGIACIVIL.COM

SITE DESIGNER
COMPANY: GEORGIA CIVIL, INC.
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PHONE: 706.342.1104

JASON P. BROWN
LEVEL II CERTIFIED DESIGN PROFESSIONAL
#53274 - EXP. 05.01.2026

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JASON BROWN
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Sheet Title
STORMWATER MANAGEMENT DETAILS

Sheet Number
C-4.2

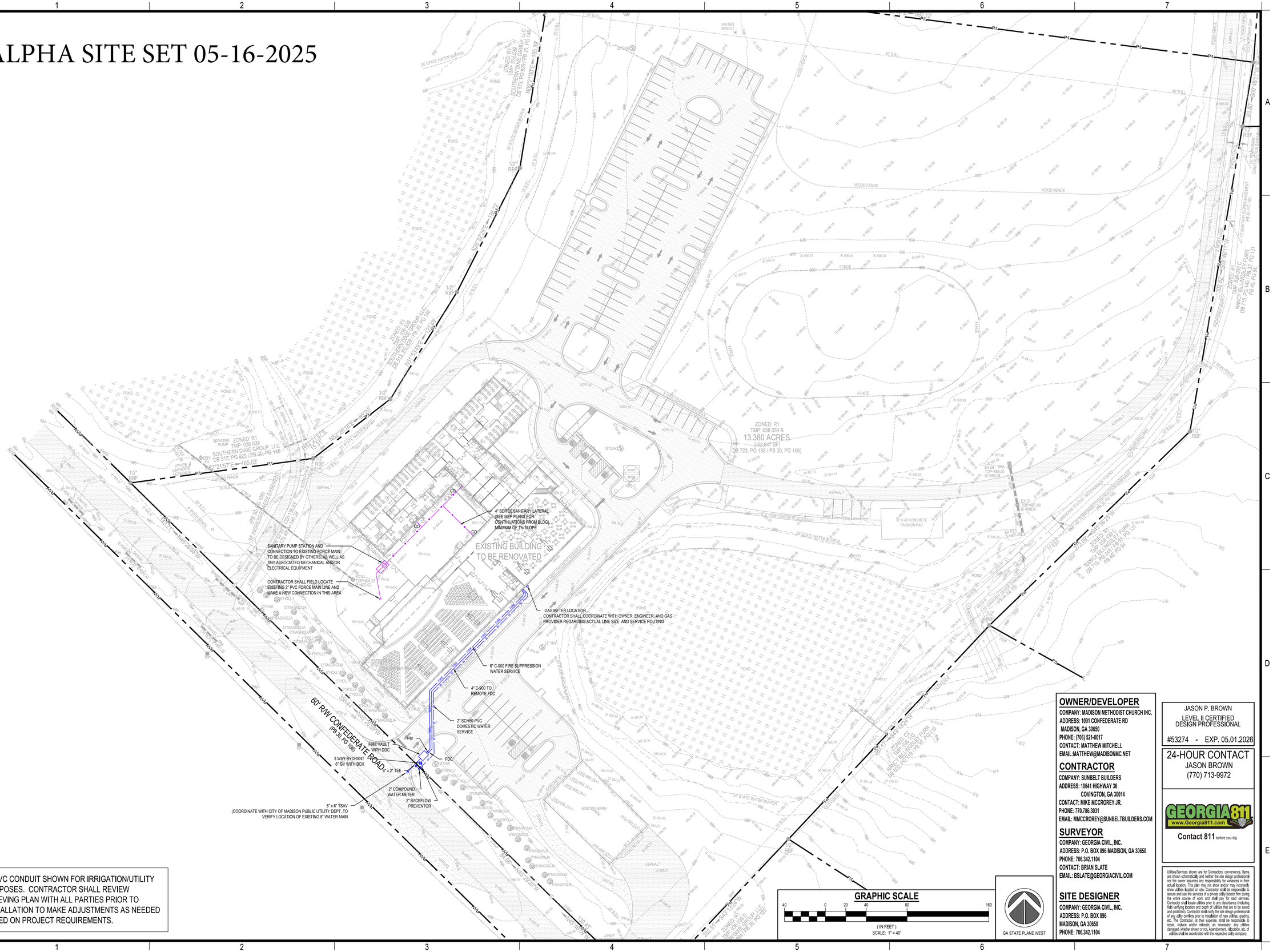
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DRAWN BY:	MCS
CHECKED BY:	JPB

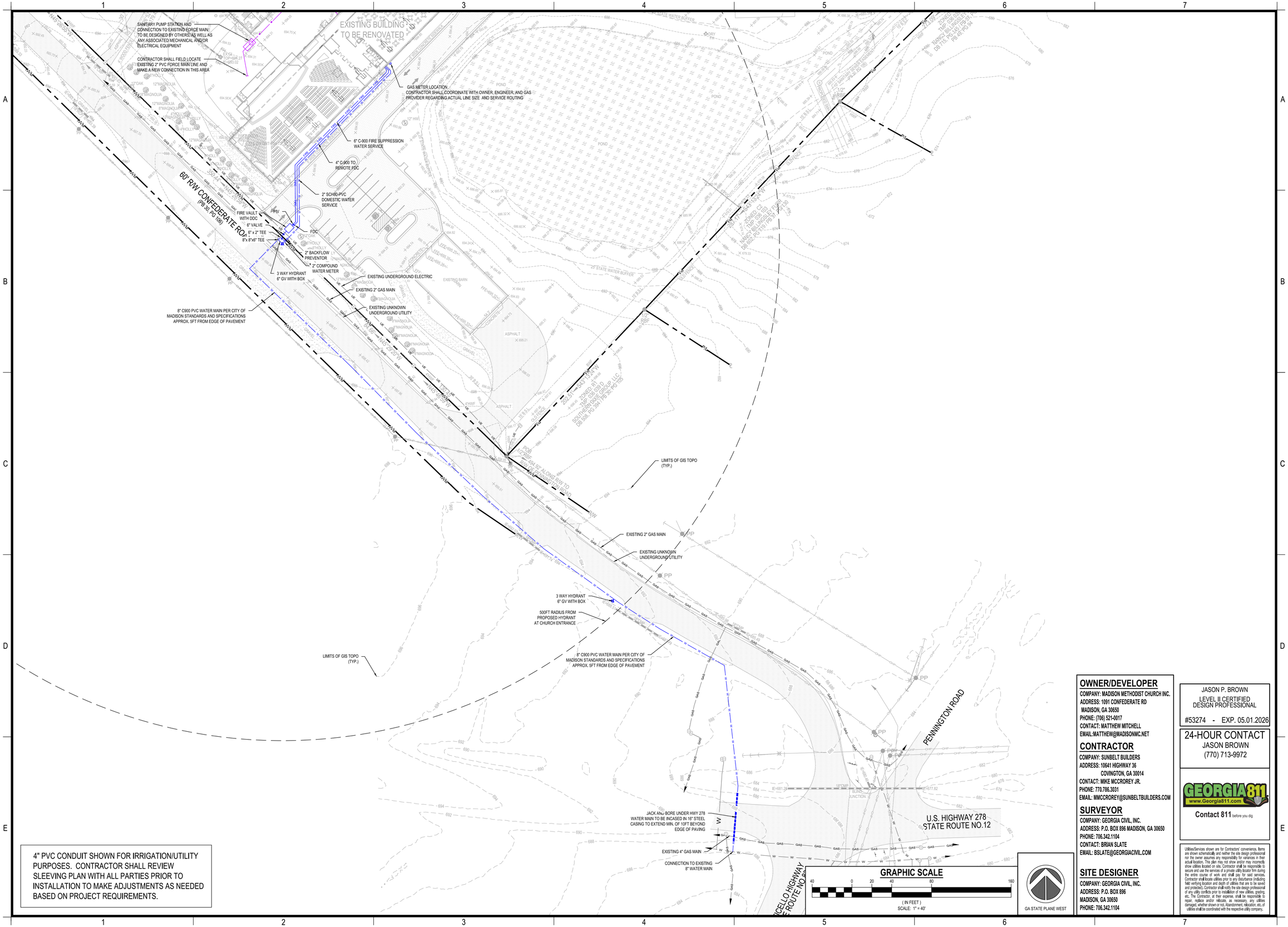
REVISIONS

DATE:	DESCRIPTION:
04-14-25	ADDRESS COMMENTS

Utilities/Services shown are for Contractors' convenience. Items are shown schematically and neither the site design professional nor the owner assumes any responsibility for variances in their actual location. This plan may not show and/or may incorrectly show utilities located on site. Contractor shall be responsible to secure and use the services of a private utility locator firm during the entire course of work and shall pay for said services. Contractor shall locate utilities prior to any disturbance (including field verifying location and depth of utilities that are to be saved and protected). Contractor shall notify the site design professional of any utility conflicts prior to installation of new utilities, grading, etc. The Contractor, at their expense, shall be responsible to repair, replace and/or relocate, as necessary, any utilities damaged, whether shown or not. Abandonment, relocation, etc. of utilities shall be coordinated with the respective utility company.

ALPHA SITE SET 05-16-2025


ZONED: R1
TMP: 036 039 B
13.380 ACRES
(582,847 SF)
DB 723, PG 188 / PB 30, PG 106)
EXISTING BUILDING TO BE RENOVATED
4" SDR-26 SANITARY LATERAL (SEE MEP PLANS FOR CONTINUATIONS FROM BLDG) MINIMUM OF 1% SLOPE
SANITARY PUMP STATION AND CONNECTION TO EXISTING FORCE MAIN TO BE DESIGNED BY OTHERS AS WELL AS ANY ASSOCIATED MECHANICAL AND/OR ELECTRICAL EQUIPMENT
CONTRACTOR SHALL FIELD LOCATE EXISTING 2" PVC FORCE MAIN LINE AND MAKE A NEW CONNECTION IN THIS AREA
GAS METER LOCATION CONTRACTOR SHALL COORDINATE WITH OWNER, ENGINEER, AND GAS PROVIDER REGARDING ACTUAL LINE SIZE AND SERVICE ROUTING
6" C-900 FIRE SUPPRESSION WATER SERVICE
4" C-900 TO REMOTE FDC
2" SCH80-PVC DOMESTIC WATER SERVICE
FIRE VAULT WITH DDC
3 WAY HYDRANT 6" GV WITH BOX
6" x 2" TEE
2" COMPOUND WATER METER
2" BACKFLOW PREVENTOR
8" x 6" TSAV (COORDINATE WITH CITY OF MADISON PUBLIC UTILITY DEPT. TO VERIFY LOCATION OF EXISTING 8" WATER MAIN
60' R/W CONFEDERATE ROAD (PB 30, PG 106)
SOUTHERN DIXIE GROUP, LLC DB 513, PG 629 / LB 30, PG 146
ZONED: R1 TMP: 036 039
NANCY BELANSLEY FURR DB 715, PG 145 / PB 30, PG 131
JAMES BELANSLEY FURR DB 761, PG 151 / PB 40, PG 34
ZONED: R1 TMP: 036 039 C
JAMES BELANSLEY FURR DB 761, PG 151 / PB 40, PG 34
EXISTING BARN
EXISTING STORAGE
30' X 48' CONCRETE PAVILION PAD
20 STATE WATER BUFFER
40' B.S.L.
15' B.S.L.
WOOD FENCE
FENCE
ASPHALT
GRAVEL
CONCRETE
POND
OVERHANG
4' WIDE CONCRETE SIDEWALK
30' INGRESS/EGRESS EASEMENT (PB 30, PG 106)
20' SANITARY SEWER EASEMENT (PB 30, PG 106)
EXISTING STATUS: NETWORK FOUND
EXISTING STATUS: NETWORK SET
EXISTING STATUS: NETWORK FOUND (DISTURBED)
EXISTING STATUS: NETWORK SET (DISTURBED)
EXISTING STATUS: NETWORK FOUND (DISTURBED) (PB 30, PG 106)
EXISTING STATUS: NETWORK SET (DISTURBED) (PB 30, PG 106)
EXISTING STATUS: NETWORK FOUND (PB 30, PG 106)
EXISTING STATUS: NETWORK SET (PB 30, PG 106)
EXISTING STATUS: NETWORK FOUND (DISTURBED) (PB 40, PG 34)
EXISTING STATUS: NETWORK SET (DISTURBED) (PB 40, PG 34)
EXISTING STATUS: NETWORK FOUND (PB 40, PG 34)
EXISTING STATUS: NETWORK SET (PB 40, PG 34)
EXISTING STATUS: NETWORK FOUND (DISTURBED) (PB 40, PG 34)
EXISTING STATUS: NETWORK SET (DISTURBED) (PB 40, PG 34



4" PVC CONDUIT SHOWN FOR IRRIGATION/UTILITY PURPOSES. CONTRACTOR SHALL REVIEW SLEEVING PLAN WITH ALL PARTIES PRIOR TO INSTALLATION TO MAKE ADJUSTMENTS AS NEEDED BASED ON PROJECT REQUIREMENTS.

OWNER/DEVELOPER
COMPANY: MADISON METHODIST CHURCH INC.
ADDRESS: 1091 CONFEDERATE RD
MADISON, GA 30650
PHONE: (706) 521-0017
CONTACT: MATTHEW MITCHELL
EMAIL:MATTHEW@MADISONMC.NET

CONTRACTOR
COMPANY: SUNBELT BUILDERS
ADDRESS: 10641 HIGHWAY 36
COVINGTON, GA 30014
CONTACT: MIKE MCCROREY JR.
PHONE: 770.786.3031
EMAIL: MMCCROREY@SUNBELTBUILDERS.COM

SURVEYOR
COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896 MADISON, GA 30650
PHONE: 706.342.1104
CONTACT: BRIAN SLATE
EMAIL: BSLATE@GEORGIACIVIL.COM

SITE DESIGNER
COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896
MADISON, GA 30650
PHONE: 706.342.1104

JASON P. BROWN
LEVEL II CERTIFIED DESIGN PROFESSIONAL
#53274 - EXP. 05.01.2026

24-HOUR CONTACT
JASON BROWN
(770) 713-9972

GEORGIA811 www.Georgia811.com
Contact 811 before you dig.

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LAND SURVEYING
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P.O. Box 896 | Madison, GA 30650
P: 706.342.1104
www.georgiacivil.com

Professional Seal

Project Information

MADISON METHODIST CHURCH
1091 CONFEDERATE RD
MADISON, GA 30650
ZONING: R1

DRAWING DATE:	01.22.25
DRAWN BY:	MCS
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
04-14-25	ADDRESS COMMENTS

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Sheet Title

WATER MAIN EXTENSION

Sheet Number

C-5.1



GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
SCALE: 1" = 40'

GA STATE PLANE WEST

OWNER/DEVELOPER
COMPANY: MADISON METHODIST CHURCH INC.
ADDRESS: 1091 CONFEDERATE RD
MADISON, GA 30650
PHONE: (706) 521-0017
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Professional Seal

GEORGIA REGISTERED NO. PE024859 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

MADISON METHODIST CHURCH
1091 CONFEDERATE RD
MADISON, GA 30650
ZONING: R1

DRAWING DATE:	01.22.25
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Sheet Title

WATER MAIN EXTENSION

Sheet Number

C-5.1

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.

NPDES PERMIT PART IV.

(I). EXCEPT AS PROVIDED IN PART IV (III). BELOW, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION. EXCEPT WHERE THE DIRECTOR HAS DETERMINED TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF NATURAL RESOURCES AND THE ENVIRONMENT IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A DRAINAGE STRUCTURE OR A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED, OR ALONG ANY EPHEMERAL STREAM, OR AROUND SPRINGS AND SEEPS, OR WHERE BULKHEADS AND SEAWALLS MUST BE CONSTRUCTED TO PREVENT THE EROSION OF THE SHORELINE ON LAKE OCONEE AND LAKE SINCLAIR. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING ACTIVITIES PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED:

1. PUBLIC DRINKING WATER SYSTEM RESERVOIRS
2. STREAM CROSSINGS FOR WATER LINES AND SEWER LINES, PROVIDED THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER
3. STREAM CROSSINGS FRO ANY UTILITY LINES OF ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF TH FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION, OR DISTRIBUTION OF POWER, PROVIDED THAT: (A) THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, (B) NATIVE RAPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND (C) THE ENTITY IS NO A SECONDARY PERMITTEE FOR A PROJECT WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PREMIT;
4. BUFFER CROSSINGS FOR FENCES, PROVIDED THAT THE CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE AREAS WITHIN THE BUFFER;
5. STREAM CROSSINGS FOR AERIAL UTILITY LINES, PROVIDED THAT (A) THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 100 LINEAR FEET, (B) UTILITY LINES ARE ROUTED AND CONSTRUCTED SO AS TO MINIMIZE THE NUMBER OF STREAM CROSSINGS AND DISTURBANCE TO THE BUFFER, (C) ONLY TREES AND TREE DEBRIS ARE REMOVED FROM WITHIN THE BUFFER RESULTING IN ONLY MINOR SOIL EROSION (I.E. DISTURBANCE OF UNDERLYING VEGETATION IS MINIMIZED), AND (D) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER. THE PLAN SHALL INCLUDE A DESCRIPTION OF THE STREAM CROSSINGS WITH DETAILS OF THE BUFFER DISTURBANCE INCLUDING AREA AND LENGTH OF BUFFER DISTURBANCE, ESTIMATED LENGTH OF TIME OF BUFFER DISTURBANCE, AND JUSTIFICATION.
6. RIGHT-OF-WAY POSTS, GUY WIRES, ANCHORS, SURVEY MARKERS, AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY UNDERTAKEN OR FINANCE IN WHOLE OR IN PART BY THE DEPARTMENT OF TRANSPORTATION, THE GEORGIA HIGHWAY AUTHORITY OR STATE ROAD AND TOLLWAY AUTHORITY OR UNDERTAKEN BY ANY COUNTY MUNICIPALITY, PROVIDED THAT (A) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (B) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (C) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE AREAS OR DISTURBED AREAS WITHIN THE BUFFER AND (D) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT;
7. RIGHT-OF-WAY POSTS, GUY-WIRES, ANCHORS, SURVEY MARKERS, AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY BY ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF THE FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT (A) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (B) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (C) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE AREAS OR DISTURBED AREAS WITHIN THE BUFFER AND (D) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT;
8. MAINTENANCE (EXCLUDING DREDGING), REPAIR AND/OR UPGRADE OF SOIL AND WATER CONSERVATION DISTRICT WATERSHED DAMS WHEN UNDER THE TECHNICAL SUPERVISION OF USDA NATURAL RESOURCES CONSERVATION SERVICE.

(II). NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, ALONG THE BANKS OF ANY STATE WATERS CLASSIFIED AS "TROUT STREAM" EXCEPT WHEN APPROVAL IS GRANTED BY THE DIRECTOR FOR ALTERNATE BUFFER REQUIREMENTS IN ACCORDANCE WIT THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED; PROVIDED, HOWEVER, THAT SMALL SPRINGS AND STREAMS CLASSIFIED AS "TROUT STREAMS" WHICH DISCHARGE AN AVERAGE ANNUAL FLOW OF 25 GALLONS PER MINUTE OR LESS SHALL HAVE A 25 FOOT BUFFER OR THEY MAY BE PIPED, AT THE DISCRETION OF THE PERMITTEE, PURSUANT TO THE TERMS OF A RULE PROVIDING FOR A GENERAL VARIANCE PROMULGATED BY THE BOARD OF NATURAL RESOURCES INCLUDING NOTIFICATION OF SUCH TO EPD AND THE LOCAL ISSUING AUTHORITY OF THE LOCATION AND EXTENT OF PIPING AND PRESCRIBED METHODOLOGY FOR MINIMIZING THE IMPACT OF SUCH PIPING AND FOR MEASURING THE VOLUME OF WATER DISCHARGED BY THE STREAM. ANY SUCH PIPE MUST STOP SHORT OF THE DOWNSTREAM PERMITTEES PROPERTY, AND THE PERMITTEE MUST COMPLY WITH THE BUFFER REQUIREMENT FOR ANY ADJACENT TROUT STREAMS. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING ACTIVITIES PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED:

1. PUBLIC DRINKING WATER SYSTEM RESERVOIRS
2. STREAM CROSSINGS FOR WATER LINES AND SEWER LINES, PROVIDED THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER
3. STREAM CROSSINGS FRO ANY UTILITY LINES OF ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF TH FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION, OR DISTRIBUTION OF POWER, PROVIDED THAT: (A) THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, (B) NATIVE RAPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND (C) THE ENTITY IS NO A SECONDARY PERMITTEE FOR A PROJECT WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PREMIT;
4. BUFFER CROSSINGS FOR FENCES, PROVIDED THAT THE CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE AREAS WITHIN THE BUFFER;
5. STREAM CROSSINGS FOR AERIAL UTILITY LINES, PROVIDED THAT (A) THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 100 LINEAR FEET, (B) UTILITY LINES ARE ROUTED AND CONSTRUCTED SO AS TO MINIMIZE THE NUMBER OF STREAM CROSSINGS AND DISTURBANCE TO THE BUFFER, (C) ONLY TREES AND TREE DEBRIS ARE REMOVED FROM WITHIN THE BUFFER RESULTING IN ONLY MINOR SOIL EROSION (I.E. DISTURBANCE OF UNDERLYING VEGETATION IS MINIMIZED), AND (D) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER. THE PLAN SHALL INCLUDE A DESCRIPTION OF THE STREAM CROSSINGS WITH DETAILS OF THE BUFFER DISTURBANCE INCLUDING AREA AND LENGTH OF BUFFER DISTURBANCE, ESTIMATED LENGTH OF TIME OF BUFFER DISTURBANCE, AND JUSTIFICATION.
6. RIGHT-OF-WAY POSTS, GUY WIRES, ANCHORS, SURVEY MARKERS, AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY UNDERTAKEN OR FINANCE IN WHOLE OR IN PART BY THE DEPARTMENT OF TRANSPORTATION, THE GEORGIA HIGHWAY AUTHORITY OR STATE ROAD AND TOLLWAY AUTHORITY OR UNDERTAKEN BY ANY COUNTY MUNICIPALITY, PROVIDED THAT (A) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (B) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (C) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE AREAS OR DISTURBED AREAS WITHIN THE BUFFER AND (D) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT;
7. RIGHT-OF-WAY POSTS, GUY-WIRES, ANCHORS, SURVEY MARKERS, AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY BY ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF THE FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATED ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT (A) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (B) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (C) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE AREAS OR DISTURBED AREAS WITHIN THE BUFFER AND (D) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT;
8. MAINTENANCE (EXCLUDING DREDGING), REPAIR AND/OR UPGRADE OF SOIL AND WATER CONSERVATION DISTRICT WATERSHED DAMS WHEN UNDER THE TECHNICAL SUPERVISION OF USDA NATURAL RESOURCES CONSERVATION SERVICE.

(III). EXCEPT AS PROVIDED IN PART IV (II) BELOW, NO CONSTRUCTION ACTIVITY SHALL BE CONDUCTED WITHIN A 25 FOOT BUFFER ALONG COASTAL MARSHLANDS, AS MEASURED HORIZONTALLY FROM THE COASTAL MARSHLAND-UPLAND INTERFACE, AS DETERMINED IN ACCORDANCE WITH PART 4 OF ARTICLE 4 OF CHAPTER 5 OF TITLE 12, THE COASTAL MARSHLANDS PROTECTION ACT OF 1970, AND THE RULES AND REGULATIONS PROMULGATED THEREUNDER, EXCEPT WHERE THE DIRECTOR DETERMINES TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF NATURAL RESOURCES AND THE ENVIRONMENT IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE OTHERWISE ALLOWED BY THE DIRECTOR PURSUANT TO CODE SECTION 12-2-8, OR WHERE AN ALTERATION WITHIN THE BUFFER AREA HAS BEEN AUTHORIZED PURSUANT TO CODE SECTION 12-5-286, OR FOR MAINTENANCE OF ANY CURRENTLY SERVICEABLE STRUCTURE, LANDSCAPING, OR HARDSCAPING, INCLUDING BRIDGES, ROADS, PARKING LOTS, GOLF COURSES, GOLF CART PATHS, RETAINING WALLS, BULKHEADS, AND PATIOS, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND SUCH MEASURES ARE FULLY IMPLEMENTED, OR WHERE A DRAINAGE STRUCTURE OR ROADWAY STRUCTURE IS CONSTRUCTED OR MAINTAINED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND SUCH MEASURES ARE FULLY IMPLEMENTED, OR ON THE LANDWARD SIDE OF ANY CURRENTLY SERVICEABLE SHORELINE STABILIZATION STRUCTURE, OR FOR THE MAINTENANCE OF ANY MANMADE STORMWATER DETENTION BASIN, GOLF COURSE POND, OR IMPOUNDMENT THAT IS LOCATED ENTIRELY WITHIN THE PROPERTY OF A SINGLE INDIVIDUAL, PARTNERSHIP, OR CORPORATION, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND SUCH MEASURES ARE FULLY IMPLEMENTED. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING ACTIVITIES PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED:

1. PUBLIC DRINKING WATER SYSTEM RESERVOIRS
2. CROSSINGS FOR UTILITY LINES THAT CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER
3. ANY LAND DISTURBING ACTIVITY CONDUCTED PURSUANT TO AND IN COMPLIANCE WITH A VALID AND EFFECTIVE LAND-DISTURBING PERMIT ISSUED SUBSEQUENT TO APRIL 22, 2014 AND PRIOR TO DECEMBER 31,2015.
4. ANY LOT FOR WHICH THE PRELIMINARY PLAT HAS BEEN APPROVED PRIOR TO DECEMBER 31, 2015 IF ROADWAYS, BRIDGES, OR WATER AND SEWER LINES HAVE BEEN EXTENDED TO SUCH LOT PRIOR TO THE EFFECTIVE DATE OF THIS ACT AND IF THE REQUIREMENT TO MAINTAIN A 25 FOOT BUFFER WOULD CONSUME AT LEAST 18 PERCENT OF THE HIGH GROUND OF THE PLATTED LOT OTHERWISE AVAILABLE FOR DEVELOPMENT.
5. BUFFER CROSSINGS FOR FENCES, PROVIDED THAT THE CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE AREAS WITHIN THE BUFFER;
6. CROSSINGS FOR AERIAL UTILITY LINES, PROVIDED THAT (A) THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 100 LINEAR FEET, (B) UTILITY LINES ARE ROUTED AND CONSTRUCTED SO AS TO MINIMIZE THE NUMBER OF STREAM CROSSINGS AND DISTURBANCE TO THE BUFFER, (C) ONLY TREES AND TREE DEBRIS ARE REMOVED FROM WITHIN THE BUFFER RESULTING IN ONLY MINOR SOIL EROSION (I.E. DISTURBANCE OF UNDERLYING VEGETATION IS MINIMIZED), AND (D) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER. THE PLAN SHALL INCLUDE A DESCRIPTION OF THE STREAM CROSSINGS WITH DETAILS OF THE BUFFER DISTURBANCE INCLUDING AREA AND LENGTH OF BUFFER DISTURBANCE, ESTIMATED LENGTH OF TIME OF BUFFER DISTURBANCE, AND JUSTIFICATION.
7. RIGHT-OF-WAY POSTS, GUY WIRES, ANCHORS, SURVEY MARKERS, AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY UNDERTAKEN OR FINANCE IN WHOLE OR IN PART BY THE DEPARTMENT OF TRANSPORTATION, THE GEORGIA HIGHWAY AUTHORITY OR STATE ROAD AND TOLLWAY AUTHORITY OR UNDERTAKEN BY ANY COUNTY MUNICIPALITY, PROVIDED THAT (A) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (B) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (C) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE AREAS OR DISTURBED AREAS WITHIN THE BUFFER AND (D) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT;
8. RIGHT-OF-WAY POSTS, GUY-WIRES, ANCHORS, SURVEY MARKERS, AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY BY ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF THE FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATED ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT (A) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (B) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (C) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE AREAS OR DISTURBED AREAS WITHIN THE BUFFER AND (D) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT;
9. MAINTENANCE (EXCLUDING DREDGING), REPAIR AND/OR UPGRADE OF SOIL AND WATER CONSERVATION DISTRICT WATERSHED DAMS WHEN UNDER THE TECHNICAL SUPERVISION OF USDA NATURAL RESOURCES CONSERVATION SERVICE.

(IV). EXCEPT AS PROVIDED ABOVE, FOR BUFFERS REQUIRED PURSUANT TO PART IV.(I), AND (II) AND (III), NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED, STATE OF VEGETATION UNTIL ALL LAND-DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED. DURING COVERAGE UNDER THIS PERMIT, A BUFFER CANNOT BE THINNED OR TRIMMED OF VEGETATION AND A PROTECTIVE VEGETATIVE COVER MUST REMAIN TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY MUST BE LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED OR MARSH.

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN CERTIFICATION:

I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of Best Management Practices (BMP's) required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the Georgia Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR 100001.

Signed: _____ Date: 4/16/2025

Georgia Civil Inc.
JASON P. BROWN
Level II Certified Design Professional #52374 EXP. 5-1-2026

I, JASON P. BROWN certify under penalty of law that this plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my direct supervision.

Signed: _____ Date: 4/16/2025
SIGNATURE OF PLAN PREPARER AND DATE

"The design professional who prepared the ES&PC Plan is to inspect 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 25 of the permit. "

Signed: _____ Date:
SIGNATURE OF PLAN PREPARER AND DATE

NOTE: CONTRACTOR SHALL PROVIDE A PHYSICAL BARRIER SUCH AS PLASTIC SHEETING OR TEMPORARY ROOFS ON ALL BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTE, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND ANY SUCH OTHER MATERIALS IN ORDER TO REDUCE EXPOSURE TO PRECIPITATION AND STORMWATER.

GSWCC EROSION CONTROL NOTES:

1. Any 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.
2. Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit.
3. 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.
4. Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source.
5. Any disturbance left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.

ADDITIONAL EROSION CONTROL NOTES:

1. Maximum cut slopes are 3:1, 3 horizontal to 1 vertical, unless otherwise noted.
2. Maximum fill slopes are 3:1, 3 horizontal to 1 vertical, unless otherwise noted.
3. All buffers, tree save areas, and/or limits of disturbance shall be clearly marked in the field by the contractor by flagging or fencing and signage, prior to commencement of any land disturbance activities or clearing/grubbing activities. Buffers, tree save areas, and areas beyond limits of disturbance are to be left undisturbed in their natural state.
4. Contractor shall not disturb underground utilities while installing Erosion, Sedimentation and Pollution Control Practices. Contractor shall have all utilities field located before proceeding with any work.
5. Contractor shall notify design professional 48 hours before beginning each phase of construction.
6. Contractor shall notify MORGAN COUNTY inspectors 24 hours before beginning each phase of construction.
7. Construction debris and/or waste shall not be buried or burned on site. All construction debris and/or waste shall be taken to a state approved landfill.
8. All buffers and tree save areas shall be clearly identified by flagging and/or fencing prior to commencement of any land disturbance activities.
9. The installation of erosion and sedimentation control measures and practices shall occur prior to or concurrent with land disturbing activities and construction on the site and shall be maintained until permanent ground cover is established to 90%.
10. All initial phase Erosion, Sedimentation and Pollution Control best management practices shall be installed prior to any grading.
11. All Erosion, Sedimentation and Pollution Control best management practices shall be inspected and repaired of damage daily. Any accumulated silt shall be removed and spread on site and controlled with temporary mulching and/or grassing.
12. Erosion, Sedimentation, and Pollution Control best management practices shall be maintained at all times. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION OR AS REQUIRED BY ENGINEER OR LOCAL JURISDICTION INSPECTOR.
13. Maintenance of all soil erosion and sedimentation control measures and practices whether temporary or permanent shall be the responsibility of the contractor.
14. Any discrepancy within these plans shall be referred to the design professional by the contractor for clarification before proceeding with work.
15. Sediment storage maintenance indicators must be installed in sediment storage structures, indicating the 1/3 full volume.
16. Contractor shall provide temporary diversion berms and down drains on fill slopes to prevent erosion prior to stabilization.
17. Contractor shall remove accumulated sediment from detention basin at end of construction when all disturbed areas have been fully stabilized.

REVISIONS SHOWN ON ES&PC PLAN:

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.

INTENDED LAND DISTURBANCE CONSTRUCTION ACTIVITY SEQUENCE:

Initial Phase:

1. Preconstruction meeting with MORGAN COUNTY
2. Perform initial monitoring
3. Install construction exit
4. Install initial silt fence (perimeter silt fence locations first)
5. Provide any needed initial mulching, grassing or other ground cover
6. Install topsoil/location silt fence
7. Begin clearing, grubbing, topsoiling, and grading operations within limits of detention ponds & install construction road Install appropriate vegetative and structural BMP's (refer / outlet protection, flocculants / coagulants, mulching / grassing, etc.)
8. Install wheel wash and fuel storage location (if necessary)
9. Coordinate Site Review Meeting with Engineer and/or Local Issuing Authority

Intermediate Phase:

1. Install storm pipe systems with protected inlets (Sd2's)
2. Throughout land disturbance process, maintain existing BMP's (Vegetative and Structural Practices)
3. Throughout land disturbance process, continue NPDES monitoring and reporting
4. Coordinate with utility companies on utility/sleeve locations
5. Begin remaining clearing, grubbing, topsoiling, and grading operations
6. Install topsoil pile at stockpile location and immediately grass/mulch and install any remaining topsoil location silt fence
7. Perform remaining grading (adjust storm risers with grade change(s) and adjust all affected Sd2's)
8. As areas are brought to finish grade, grass and blanket any areas that are finish grade or that will be left bare for 7 days
9. Adjust storm risers with grade change(s) and adjust all Sd2's
10. Each fill slope shall have a diversion at the top that is maintained and reinstalled as the slope is constructed
11. Continue flocculant / coagulant applications and continue every 7 days throughout project
12. Install remaining storm system(s) as grades are achieved
13. Immediately install each storm structure with associated Sd2's and add floc logs to storm structure
14. Grass / mulch / flocculant / coagulant disturbed areas and install intermediate BMPs
15. Install utilities (water and septic/sewer)
16. 16. Grass / mulch / flocculent / coagulant disturbed areas and install intermediate BMPs
17. Install GAB throughout roadway up to designated line
18. Grass / mulch / flocculent / coagulant disturbed areas and install intermediate BMPs
19. Install curb & gutter
20. Grass / mulch / flocculent / coagulant disturbed areas and install intermediate BMPs
21. Install pavement
22. Finish grade shoulders and stabilize disturbed areas with permanent vegetation
23. Continue to apply flocculent / coagulant applications, mulching, and grassing at each step to limit soil exposure

Final Phase:

1. Throughout land disturbance process, maintain existing BMP's (vegetative and structural practices)
2. Throughout land disturbance process, continue NPDES monitoring and reporting
3. Complete paving operations
4. Achieve Final Site Stabilization
5. Coordinate Site Review Meeting with Engineer and/or Local Issuing Authority Inspector
6. Clean silt from all storm systems (distribute onsite and stabilize)
7. Remove any temporary BMP practices once site stabilization is achieved and signed off by Engineer
8. Coordinate Site Review Meeting with Engineer for final site approval

CONCRETE WASHOUT:

Contractor shall install a concrete washdown. This area is only for the washdown of items such as tools, concrete mixer chutes, hoppers and the rear of the vehicles.
WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

WASTE DISPOSAL, SANITARY SEWER, SEPTIC TANK REGULATIONS (ES&PC PLAN COMPLIANCE):

Construction Debris shall be recycled to the extent deemed practical by Owner/Contractor. All waste generated from the development of this site,including but not limited to, solid waste, liquid waste, chemical waste, construction waste, sanitary sewer discharge, septic tank and septic systems waste, shall be collected and disposed of in a manner that follows all local, state, and federal laws and regulations for collection and disposal of each type of waste. All required signage, notification, documentation, and training of personnel on correct handling of waste shall be done in a manner that follows all local, state, and federal laws and regulations. Owner/Contractor is responsible for obtaining the services (and all applicable permits) of a licensed waste management company in the state of Georgia to properly and safely handle waste collection and disposal. Solid materials, including building materials, shall not be discharged to waters of the State, except as authorized by a Section 404 permit.

BMP'S FOR PETROLEUM SPILLS AND LEAKS:

1. Fix any leaks immediately, maintain and clean equipment regularly
2. Designate areas for equipment maintenance and fueling that are located on level ground and away from any water sources.
3. Park and service equipment on top of tarps to insure any spills or leaks do not get into the ground.
4. Store all fluids and containers in a leak-proof, bolted container to insure safe storage.
5. Collect and remove all leftover lubricants, containers, and trash, especially tires, batteries, pieces or parts of equipment, and all fluid containers.
6. Maintain a spill containment and clean up kit. At a minimum, a kit for petroleum products should include:
   a. A leak proof container to catch leaking fluid.
   b. A shovel, rake,

REQUIRED INSPECTIONS AND RECORD KEEPING BY THE PRIMARY PERMITTEE:

PERMITTEE REQUIREMENTS.

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

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

(3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR

ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST):

(a)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.

ANALYTICAL METHODS TO BE USED TO COLLECT AND ANALYZE SAMPLES:

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

a.SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

(1). A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORMWATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORMWATER ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;

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

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

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

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

(1). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

(2). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

(3). LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.

(4). MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION. UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED, IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.

(5). SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

c.SAMPLING POINTS.

(1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORMWATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

(A).THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORMWATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY, WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.

(B).THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORMWATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY, WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.

(C).IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORMWATER OUTFALL CHANNEL(S).

(D).CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORMWATER CHANNEL.

(E).THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

(F).THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

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

(H).ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORMWATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS
III.D.3. OR III.D.4., WHICHEVER IS APPLICABLE.

d.SAMPLING FREQUENCY.

(1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW, FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN IN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.

(2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORMWATER DISCHARGE.

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

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

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

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

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

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

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

RETENTION OF RECORDS:

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

a.A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
b.A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
c.THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
d.A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
e.A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A, OF THIS PERMIT;
f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2, OF THIS PERMIT; AND
g.DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.

1. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT, THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE, THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

NPDES Permit Part IV.E. Reporting:

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORMWATER DISCHARGE(S) ON THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

a. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
b. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
c. THE DATE(S) ANALYSES WERE PERFORMED;
d. THE TIME(S) ANALYSES WERE INITIATED;
e. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
h. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU." AND
i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO:

NORTHEAST DISTRICT - ATHENS
GEORGIA ENVIRONMENTAL PROTECTION DIVISION
745 GAINES SCHOOL RD.
ATHENS, GA 30605
(706) 369-6376

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. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

INITIAL INSPECTION AND REPORTING:

For common developments that begin construction activity after the effective date of this permit, the primary permittee must retain the design professional who prepared the Erosion, Sedimentation and Pollution Control Plan, except when the primary permittee has requested in writing and EPD has agreed to an alternate design professional, to inspect the installation of the initial sediment storage requirements and perimeter control BMPs which the design professional designed within seven (7) days after installation. The design professional shall determine if these BMPs have been installed and are being maintained as designed. The design professional shall report the results of the inspection to the primary permittee within seven (7) days and the permittee must correct all deficiencies within two (2) business days of receipt of the inspection report from the design professional unless weather related site conditions are such that additional time is required.

MINIMUM QUALIFICATIONS OF INSPECTORS:

"Design Professional" means a professional licensed by the state of GA in the field of: engineering, architecture, landscape architecture, forestry, geology, or land surveying; or a person that is a certified professional in erosion and sediment control (CPESC) with a current certification by Envirocert International, Inc. Design professionals shall practice in a manner that complies with applicable GA law governing professional licensure.

"Certified Personnel" means a person who has successfully completed the appropriate certification course approved by the GEORGIA SOIL AND WATER Conservation Commission.

CONSTRUCTION SEQUENCE SCHEDULE

LAND DISTURBING ACTIVITY SHALL NOT COMMENCE PRIOR TO A PRECONSTRUCTION MEETING WITH THE LOCAL ISSUING AUTHORITY.

BMP'S	MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6	MONTH 7	ACTIVITY
	NOTIFY INSPECTOR 24 HOURS PRIOR TO CONSTRUCTION:							
INITIAL								PRECONSTRUCTION MEETING WITH LOCAL ISSUING AUTHORITY
								PERFORM INITIAL MONITORING
								INSTALL CONSTRUCTION EXIT
								INSTALL INITIAL SILT FENCE (PERIMETER SILT FENCE LOCATIONS FIRST)
								PROVIDE ANY INITIAL MULCHING, GRASSING, OR OTHER GROUND COVER
								INSTALL TOPSOIL LOCATION SILT FENCE
								BEGIN CLEARING, GRUBBING, TOPSOILING, AND GRADING OPERATIONS WITHIN LIMITS OF DETENTION POND
								INSTALL DETENTION BASIN WITH SKIMMER OUTLET (INCLUDES STORM STRUCTURES AS-IV AND BS-IB1)
								INSTALL APPROPRIATE VEGETATIVE AND STRUCTURAL BMP'S (INLET / OUTLET PROTECTION, FlCs, ETC.)
								INSTALL WHEEL WASH AND FUEL STORAGE LOCATION
								COORDINATE SITE REVIEW MEETING WITH ENGINEER AND LOCAL ISSUING AUTHORITY
INTERMEDIATE								INSTALL STORM PIPE SYSTEMS WITH PROTECTED INLETS (SD2'S)
								THROUGHOUT LAND DISTURBANCE PROCESS, MAINTAIN EX. BMP'S (VEGETATIVE AND STRUCTURAL)
								THROUGHOUT LAND DISTURBANCE PROCESS, CONTINUE NPDES MONITORING AND REPORTING
								COORDINATE WITH UTILITY COMPANIES ON UTILITY / SLEEVE LOCATIONS
								BEGIN REMAINING CLEARING, GRUBBING, TOPSOILING, AND GRADING OPERATIONS
								INSTALL TOPSOIL AT STOCKPILE LOCATION, IMMEDIATELY GRASS / MULCH, INSTALL ANY REMAINING TOPSOIL LOCATION SILT FENCE
								PERFORM REMAINING GRADING (ADJUST STORM RISERS WITH GRADE CHANGE(S) AND ADJUST ALL SD2'S)
								AS AREAS ARE BROUGHT TO FINISH GRADE / GRASS / BLANKET ANY AREAS THAT ARE FINISH GRADE OR THAT WILL BE LEFT BARE FOR 7 DAYS
								EACH FILL SLOPE SHALL HAVE A DIVERSION AT THE TOP THAT IS MAINTAINED AND REINSTALLED AS THE SLOPE IS CONSTRUCTED
								CONTINUE FLOCCULANT / COAGULANT APPLICATIONS (EVERY 7 DAYS THROUGHOUT PROJECT)
								INSTALL REMAINING STORM SYSTEM'S AS GRADES ARE ACHIEVED
								IMMEDIATELY INSTALL EACH STORM STRUCTURE WITH ASSOCIATED SD2'S AND ADD FLOC LOGS TO EACH STORM STRUCTURE
								GRASS / MULCH / FlCs DISTURBED AREAS AND INSTALL ASSOCIATED INTERMEDIATE BMP'S
								INSTALL SANITARY SEWER MAINS AND SERVICES
								GRASS / MULCH / FlCs DISTURBED AREAS AND INSTALL ASSOCIATED INTERMEDIATE BMP'S
								INSTALL WATER SYSTEM
								GRASS / MULCH / FlCs DISTURBED AREAS AND INSTALL ASSOCIATED INTERMEDIATE BMP'S
								INSTALL REMAINING UTILITIES (POWER, PHONE, CABLE, GAS, ETC.) WITH APPROPRIATE BMP'S
								INSTALL GAB THROUGHOUT PARKING AREA UP TO DESIGNATED LINE
								INSTALL REMAINING GAB
								BUILDING CONSTRUCTION
								GRASS / MULCH / FlCs DISTURBED AREAS AND INSTALL ASSOCIATED INTERMEDIATE BMP'S
								INSTALL CURB AND GUTTER
								GRASS / MULCH / FlCs DISTURBED AREAS AND INSTALL ASSOCIATED INTERMEDIATE BMP'S
								INSTALL PAVEMENT
								FINISH GRADE SHOULDERS AND STABILIZE DISTURBED AREAS WITH PERMANENT VEGETATION
								CONTINUE TO APPLY FLOCCULENT / COAGULANT APPLICATIONS, MULCHING, AND GRASSING AT EACH STEP TO LIMIT SOIL EXPOSURE
FINAL								THROUGHOUT LAND DISTURBANCE PROCESS, MAINTAIN EX. BMP'S (VEGETATIVE AND STRUCTURAL)
								THROUGHOUT LAND DISTURBANCE PROCESS, CONTINUE NPDES MONITORING AND REPORTING
								COMPLETE PAVING OPERATIONS
								ACHIEVE FINAL SITE STABILIZATION
								COORDINATE SITE REVIEW MEETING WITH ENGINEER AND/OR LOCAL

GEORGIA UNIFORM CODING SYSTEM
SOIL EROSION & SEDIMENT CONTROL

STRUCTURAL PRACTICES

Code	Practice	Symbol
Cs-Fs	Compost Filter Sock	Cs-Fs
Cs-Hb	Straw-Bale Check Dams	Cs-Hb
Cs-S	Stone Check Dams	Cs-S
Ch-1	Channel Stabilization - Category 1 (Vegetated/Sod)	Ch-1
Ch-2	Channel Stabilization - Category 2 (Rip-Rap, TRM)	Ch-2 Rip-Rap / TRM
Ch-3	Channel Stabilization - Category 3 (Concrete)	Ch-3
Co	Construction Exit	Co
Cr	Construction Road Stabilization	Cr
Dc-A	Stream Diversion Channel (Geotextile, Sod, or Polyethylene film)	Dc-A or Dc-B or Dc-C
Dc-B	Stream Diversion Channel (Geotextile alone)	
Dc-C	Stream Diversion Channel (Class I Rip-Rap and Geotextile)	
Di	Diversion	Di
Dn1	Temporary Downdrain Structure	Dn1
Dn2	Permanent Downdrain Structure	Dn2
Fr	Filter Ring	Fr
Ga	Gabion	Ga
Gr	Grade Stabilization Structure	Gr
Lv	Level Spreader	Lv
Rd	Rock Filter Dam	Rd
Re	Retaining Wall	Re
Rt-B	Retrofit (Slotted Board Dam w/ Stone or Filter Fabric)	Rt-B
Rt-P	Retrofit (Perforated Wall - Round Pipe w/ Stone Filter)	Rt-P
Rt-Sc	Retrofit (Silt Control Gate)	Rt-Sc
Sd1-Bf	Sediment Barrier (Type = Brush Barrier)	Sd1-Bf
Sd1-Ns	Sediment Barrier (Type = Non-Sensitive Areas)	Sd1-Ns
Sd1-S	Sediment Barrier (Type = Sensitive Areas)	Sd1-S
Sd1-Cf	Sediment Barrier (Type = Compost Filter Media Sock)	Sd1-Cf
Sd2-B	Inlet Sediment Trap (Baffle Box)	Sd2-Cf
Sd2-Bg	Inlet Sediment Trap (Block & Gravel Drop Inlet Protection)	
Sd2-E	Inlet Sediment Trap (Excavated Inlet Sediment Trap)	
Sd2-F	Inlet Sediment Trap (Filter Fabric w/ Supporting Frame)	☐ Indicate type
Sd2-G	Inlet Sediment Trap (Gravel Drop Inlet Protection)	Sd2-G
Sd2-P	Inlet Sediment Trap (Curb Inlet Protection)	
Sd2-S	Inlet Sediment Trap (Sod Inlet Protection)	☐ Indicate type
Sd3	Temporary Sediment Basin	Sd3
Sd4	Temporary Sediment Trap	Sd4
Sk	Floating Filter Surface Skimmer	Sk
Sp8	Seep Berm	Sp8
St-B	Temporary Stream Crossing (Bridge)	St-B
St-C	Temporary Stream Crossing (Culvert)	St-C
St	Storm Drain Outlet Protection	St
Su	Surface Roughening	Su
Tc-F	Turbidity Curtain (Floating)	Tc-Cf
Tc-S	Turbidity Curtain (Staked)	☐ Indicate type
Tp	Topsoiling	Tp
Wt	Vegetated Waterway or Stormwater Conveyance Channel	Wt

VEGETATIVE MEASURES

Bf	Buffer Zone	Bf
Cs	Coastal Dune Stabilization (w/ Vegetation)	Cs
Ds1	Disturbed Area Stabilization (w/ Mulching Only)	Ds1
Ds2	Disturbed Area Stabilization (w/ Temporary Seeding)	Ds2
Ds3	Disturbed Area Stabilization (w/ Permanent Vegetation)	Ds3
Ds4	Disturbed Area Stabilization (w/ Sodding)	Ds4
Du	Dust Control on Disturbed Areas	Du
Fl-Co	Flocculants Coagulants	Fl-Co
Sb	Streambank Stabilization (Using Permanent Vegetation)	Sb
Ss	Slope Stabilization (Rolled Erosion Control Products (RECPs))	Ss
Tac-1	Tackifiers: Type I (Synthetic Polymers)	Tac-1
Tac-2	Tackifiers: Type II (Organic Polymers)	Tac-2
Tac-3	Tackifiers: Type III (Synthetic/ Organic Blends)	Tac-3
Tac-4	Tackifiers: Type IV (Organic Tackifiers w/ Synthetic Fibers)	Tac-4
Tac-5	Tackifiers: Type V (Synthetic/Organic Blends w/ Synthetic Fibers)	Tac-5

INITIAL SEDIMENT STORAGE CALCULATIONS-BASIN 2
1) REQUIRED STORMWATER STORAGE = 97 CY
(67 CY/AC x 1.44 AC DRAINED AREA) STORAGE REQUIRED FOR 25 YR STORM EVENT
2) AVAILABLE STORAGE = 185 CY
3) IS THE AVAILABLE STORAGE (4) GREATER THAN THE REQUIRED STORAGE (3)?
X - YES ___ NO
4) IF "NO", TRE SEDIMENT STORAGE CAPACITY OF THE POND MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:
___ RAISE THE INVERT OF THE OUTLET STRUCTURE ____ INCHES.
___ UNDERCUT THE POND ____ FEET.
___ OTHER
5) CLEAN-OUT ELEVATION = 961.24 FT.
(ELEVATION CORRESPONDING TO 22 CY/YD x 1.44 AC DRAINED AREA.
6) IS THE LENGTH-WIDTH RATIO 2:1 OR GREATER?
X - YES ___ NO
7) IF "NO", TRE LENGTH OF FLOW MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:
___ BAFFLES (TYPE OF BAFFLE_____)
___ OTHER _____.

Sd4 TYPE C - TEMPORARY SEDIMENT TRAP (BASIN NO. 3)

Drainage Area	38332	SF =	0.88	AC
Req. Sediment Storage =	**1592**	**CF**	**59**	**CY**
Side Slope = 2:1 max	3:1			
Top of embankment =	693	FT		
Bottom of excavation =	689	FT		
Spillway invert elevation =	691.5	FT		
Excavation Depth =	4.0	FT		
Storage Depth =	2.5	FT		
Req. Surface Area =	637	SF	Volume / Depth	
Sed. Trap dimensions:	L = **60**	**FT**	W = **12**	**FT**
Provided Area =	720	SF		
Provided Storage =	**1800**	**CF**	**67**	**CY**
Cleanout Volume =	**600**	**CF**	**(0.83 FT)**	

ALPHA SITE SET 05-16-2025

INITIAL SILT FENCE SEDIMENT STORAGE CALCULATIONS BASIN #1

REQUIRED SEDIMENT STORAGE=0.99 AC (DRAINAGE AREA) X 67 (CY/AC)=67 CY REQ'D

388 LF SILT FENCE PROVIDED:
AT 2% SLOPE B=88' (B= AVERAGE DISTANCE, UPHILL FROM SILT FENCE, GO UP 1.5' IN ELEVATION CHANGE)
$\frac{2}{3}$ OF SILT FENCE H=1.5' (28"*$\frac{2}{3}$)
388*$\frac{1}{2}$(B*H)=25,608 CF \ 27=948 CY STORAGE PROVIDED

PH 1 LIMITS OF DISTURBANCE = 2.40 AC

BASIN 1 0.99 ACRES
BASIN 2 1.44 ACRES
BASIN 3 0.88 ACRES

Ds1 Ds2 Du
ALL DISTURBED AREAS

NPDES SAMPLING POINT

SD4 TO REMAIN IN PLACE UNTIL PAVING AND CURB & GUTTER ARE INSTALLED

12' WIDE RIP RAP
EMERGENCY SPILLWAY

CONCRETE WASHOUT
TRASH RECEPTACLES
PORTABLE SANITATION UNITS
4'X8' CONTACT INFORMATION SIGN
TREE PROTECTION FENCE

NOTE: WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

REFER TO SHEET C-1.1 AND C-6.1 FOR EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES

Maintenance of all soil erosion and sedimentation control measures and practices, whether temporary or permanent, shall be at all times the responsibility of the property owner.

GSWCC EROSION CONTROL NOTES:

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 source.

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

Any amendments/revisions to the ESAPC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional.

OWNER/DEVELOPER
COMPANY: MADISON METHODIST CHURCH INC.
ADDRESS: 1091 CONFEDERATE RD
MADISON, GA 30650
PHONE: (706) 521-0017
CONTACT: MATTHEW MITCHELL
EMAIL:MATTHEW@MADISONMC.NET

CONTRACTOR
COMPANY: SUNBELT BUILDERS
ADDRESS: 10641 HIGHWAY 36
COVINGTON, GA 30014
CONTACT: MIKE MCCRORERY JR.
PHONE: 770.786.3031
EMAIL: MMCCRORERY@SUNBELTBUILDERS.COM

SURVEYOR
COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896 MADISON, GA 30650
PHONE: 706.342.1104
CONTACT: BRIAN SLATE
EMAIL: BSLATE@GEORGIACIVIL.COM

SITE DESIGNER
COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896
MADISON, GA 30650
PHONE: 706.342.1104

JASON P. BROWN
LEVEL II CERTIFIED DESIGN PROFESSIONAL
#53274 - EXP. 05.01.2026

24-HOUR CONTACT
JASON BROWN
(770) 713-9972

GEORGIA811 www.Georgia811.com
Contact 811 before you dig

Utilities/Services shown are for Contractors' convenience. Items are shown schematically and neither the site design professional nor the owner assumes any responsibility for variances in their actual location. This plan may not show and/or may incorrectly show utilities located on site. Contractor shall be responsible to secure and use the services of a private utility locator firm during the entire course of work and shall pay for said services. Contractor shall locate utilities prior to any disturbance (including field verifying location and depth of utilities that are to be saved and protected). Contractor shall notify the site design professional of any utility conflicts prior to installation of new utilities, grading, etc. The Contractor, at their expense, shall be responsible to repair, reinstate and/or relocate, as necessary, any utilities damaged, whether shown or not. Abandonment, relocation, etc. of utilities shall be coordinated with the respective utility company.

NORTH ARROW
GA STATE PLANE WEST

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
SCALE: 1" = 40'

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Professional Seal
GEORGIA REGISTERED NO. PE025855 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

MADISON METHODIST CHURCH

1091 CONFEDERATE RD
MADISON, GA 30650
ZONING: R1

DRAWING DATE:	01.22.25
DRAWN BY:	MCS
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
04-14-25	ADDRESS COMMENTS

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Sheet Title
INITIAL EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN

Sheet Number
C-6.2

ALPHA SITE SET 05-16-2025

GEORGIA UNIFORM CODING SYSTEM
SOIL EROSION & SEDIMENT CONTROL

STRUCTURAL PRACTICES

Code	Practice	Symbol
Cd-Fs	Compost Filter Sock	Cd-Fs
Cd-Hb	Straw-Bale Check Dams	Cd-Hb
Cd-S	Stone Check Dams	Cd-S
Ch-1	Channel Stabilization Category 1 (Vegetated/Sod)	Ch-1
Ch-2	Channel Stabilization Category 2 (Rip-Rap, TRM)	Ch-2
Ch-3	Channel Stabilization Category 3 (Concrete)	Ch-3
Co	Construction Exit	Co
Cr	Construction Road Stabilization	Cr
Do-A	Stream Diversion Channel (Geotextile, Sod, or Polyethylene film)	Do-A
Do-B	Stream Diversion Channel (Geotextile alone)	Do-B
Do-C	Stream Diversion Channel (Class I Rip-Rap and Geotextile)	Do-C
Di	Diversion	Di
Dn1	Temporary Downdrain Structure	Dn1
Dn2	Permanent Downdrain Structure	Dn2
Fr	Filter Ring	Fr
Ga	Gabion	Ga
Gr	Grade Stabilization Structure	Gr
Lv	Level Spreader	Lv
Rd	Rock Filter Dam	Rd
Re	Retaining Wall	Re
Rf-B	Retrofit (Slotted Board Dam w/ Stone or Filter Fabric)	Rf-B
Rf-P	Retrofit (Perforated Wall- Round Pipe w/ Stone Filter)	Rf-P
Rf-Sc	Retrofit (Silt Control Gate)	Rf-Sc
Sd1-Bf	Sediment Barrier (Type = Brush Barrier)	Sd1-Bf
Sd1-Ns	Sediment Barrier (Type = Non-Sensitive Areas)	Sd1-Ns
Sd1-S	Sediment Barrier (Type = Sensitive Areas)	Sd1-S
Sd1-Cf	Sediment Barrier (Type = Compost Filter Media Sock)	Sd1-Cf
Sd2-B	Inlet Sediment Trap (Baffle Box)	Sd2-Et
Sd2-Bg	Inlet Sediment Trap (Block & Gravel Drop Inlet Protection)	
Sd2-E	Inlet Sediment Trap (Excavated Inlet Sediment Trap)	
Sd2-F	Inlet Sediment Trap (Filter Fabric w/ Supporting Frame)	

Code	Practice	Symbol
Sd2-G	Inlet Sediment Trap (Gravel Drop Inlet Protection)	Sd2-Et
Sd2-P	Inlet Sediment Trap (Curb Inlet Protection)	
Sd2-S	Inlet Sediment Trap (Sod Inlet Protection)	☐Indicate type
Sd3	Temporary Sediment Basin	Sd3
Sd4	Temporary Sediment Trap	Sd4
Sf	Floating Filter Surface Skimmer	Sk
SpB	Seep Berm	SpB
St-B	Temporary Stream Crossing (Bridge)	St-B
St-C	Temporary Stream Crossing (Culvert)	St-C
St	Storm Drain Outlet Protection	St
Su	Surface Roughening	Su
Tc-F	Turbidity Curtain (Floating)	Tc-Ft
Tc-S	Turbidity Curtain (Slatted)	☐Indicate type
Tp	Topsoiling	Tp
Wt	Vegetated Waterway or Stormwater Conveyance Channel	Wt

VEGETATIVE MEASURES

Bf	Buffer Zone	Bf
Cs	Coastal Dune Stabilization (w/ Vegetation)	Cs
Ds1	Disturbed Area Stabilization (w/ Mulching Only)	Ds1
Ds2	Disturbed Area Stabilization (w/ Temporary Seeding)	Ds2
Ds3	Disturbed Area Stabilization (w/ Permanent Vegetation)	Ds3
Ds4	Disturbed Area Stabilization (w/ Sodding)	Ds4
Du	Dust Control on Disturbed Areas	Du
Fl-Co	Flocculants Coagulants	Fl-Co
Sb	Streambank Stabilization (Using Permanent Vegetation)	Sb
Ss	Slope Stabilization (Rolled Erosion Control Products (RECPs))	Ss
Tac-1	Tackifiers: Type I (Synthetic Polymers)	Tac-1
Tac-2	Tackifiers: Type II (Organic Polymers)	Tac-2
Tac-3	Tackifiers: Type III (Synthetic/ Organic Blends)	Tac-3
Tac-4	Tackifiers: Type IV (Organic Tackifiers w/ Synthetic Fibers)	Tac-4
Tac-5	Tackifiers: Type V (Synthetic/Organic Blends w/ Synthetic Fibers)	Tac-5

☐Indicate type

PIPE DIAMETER.....16"
FLOW RATE (cfs).....0.63
VELOCITY (fps).....3.42
TAILWATER CONDITION.....MIN.
APRON LENGTH (LA).....9.0'
WIDTH AT THE HEADWALL (W1).....3.75'
DOWNSTREAM WIDTH (W2).....12.75'
AVERAGE STONE DIAMETER (D_{50}).....(0.5')
STONE DEPTH (D).....1.0'

NPDES SAMPLING POINT

SEDIMENT STORAGE CALCULATIONS-BASIN 2
1) REQUIRED STORMWATER STORAGE = 59 CY
(67 CY/AC x 0.88 AC DRAINED AREA) STORAGE REQUIRED FOR 25 YR STORM EVENT
2) AVAILABLE STORAGE = 185 CY
3) IS THE AVAILABLE STORAGE (4) GREATER THAN THE REQUIRED STORAGE (3)?
X YES ___NO
4) IF "NO", THE SEDIMENT STORAGE CAPACITY OF THE POND MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:
___ RAISE THE INVERT OF THE OUTLET STRUCTURE ____ INCHES.
___ UNDERCUT THE POND ___ FEET.
___ OTHER
5) CLEAN-OUT ELEVATION = 961.24 FT.
(ELEVATION CORRESPONDING TO 22 CY/YD x 0.88 AC DRAINED AREA
6) IS THE LENGTH-WIDTH RATIO 2:1 OR GREATER?
X YES ___NO
7) IF "NO", THE LENGTH OF FLOW MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:
___ BAFFLES (TYPE OF BAFFLE_____)
___ OTHER _____

SILT FENCE SEDIMENT STORAGE CALCULATIONS BASIN #10

REQUIRED SEDIMENT STORAGE=0.19 AC (DRAINAGE AREA) X 67 (CY/AC)=13 CY REQ'D

127 LF SILT FENCE PROVIDED:
AT 8% SLOPE B=18' (B= AVERAGE DISTANCE, UPHILL FROM SILT FENCE, GO UP 1.5' IN ELEVATION CHANGE)
⅔ OF SILT FENCE H=1.5' (28"*⅔)
270*½(B*H)=1,714 CF \ 27=63 CY STORAGE PROVIDED

BASIN 1 0.92 ACRES
BASIN 2 0.88 ACRES
BASIN 3 0.17 ACRES
BASIN 4 0.11 ACRES
BASIN 5 0.12 ACRES
BASIN 6 0.49 ACRES
BASIN 7 0.88 ACRES
BASIN 8 (COMBINED) 0.05 ACRES
BASIN 9 0.41 ACRES
BASIN 10 0.19 ACRES

PH 2&3 LIMITS OF DISTURBANCE = 4.10 AC

Ds1	Ds2
Ds3	Du

ALL DISTURBED AREAS

Tp STOCKPILE LOCATION

SILT FENCE SEDIMENT STORAGE CALCULATIONS BASIN #1

REQUIRED SEDIMENT STORAGE=0.92 AC (DRAINAGE AREA) X 67 (CY/AC)=62 CY REQ'D

270 LF SILT FENCE PROVIDED:
AT 2% SLOPE B=88' (B= AVERAGE DISTANCE, UPHILL FROM SILT FENCE, GO UP 1.5' IN ELEVATION CHANGE)
⅔ OF SILT FENCE H=1.5' (28"*⅔)
270*½(B*H)=17,820 CF \ 27=660 CY STORAGE PROVIDED

SILT FENCE SEDIMENT STORAGE CALCULATIONS BASIN #7

REQUIRED SEDIMENT STORAGE=0.88 AC (DRAINAGE AREA) X 67 (CY/AC)=59 CY REQ'D

163 LF SILT FENCE PROVIDED:
AT 4% SLOPE B=40' (B= AVERAGE DISTANCE, UPHILL FROM SILT FENCE, GO UP 1.5' IN ELEVATION CHANGE)
⅔ OF SILT FENCE H=1.5' (28"*⅔)
163*½(B*H)=4,830 CF \ 27=178 CY STORAGE PROVIDED

ONCE GRADING IS COMPLETE AND CURB AND GUTTER ARE INSTALLED, CONTRACTOR SHOULD REMOVE SILT FENCE AND INSTALL GAB IN PARKING AREA. Sd2-P SHALL BE INSTALLED AT THE FLUME AT THIS TIME.

TREE PROTECTION FENCE

60' R/W CONFEDERATE RD (PUBLIC)

4'X8' CONTACT INFORMATION SIGN

CONCRETE WASHOUT
TRASH RECEPTACLES
PORTABLE SANITATION UNITS

Co LAT: 33.719200° LONG: -83.655510°

Sd2-E E F DELINEATION LINE

BASIN DELINEATION LINE

PIPE DIAMETER.....18"
FLOW RATE (cfs).....0.20
VELOCITY (fps).....5.01
TAILWATER CONDITION.....MIN.
APRON LENGTH (LA).....9.5'
WIDTH AT THE HEADWALL (W1).....4.5'
DOWNSTREAM WIDTH (W2).....14'
AVERAGE STONE DIAMETER (D_{50}).....(0.5')
STONE DEPTH (D).....1.0'

12' WIDE RIP RAP
EMERGENCY SPILLWAY

Ds1	Ds2
Ds3	Du

ALL DISTURBED AREAS

SILT FENCE SEDIMENT STORAGE CALCULATIONS BASIN #9

REQUIRED SEDIMENT STORAGE=0.041AC (DRAINAGE AREA) X 67 (CY/AC)=28 CY REQ'D

383 LF SILT FENCE PROVIDED:
AT 11% SLOPE B=14' (B= AVERAGE DISTANCE, UPHILL FROM SILT FENCE, GO UP 1.5' IN ELEVATION CHANGE)
⅔ OF SILT FENCE H=1.5' (28"*⅔)
383*½(B*H)=4,022 CF \ 27=149 CY STORAGE PROVIDED

SILT FENCE SEDIMENT STORAGE CALCULATIONS BASIN #8

REQUIRED SEDIMENT STORAGE=0.05 AC (DRAINAGE AREA) X 67 (CY/AC)=4 CY REQ'D

161 LF SILT FENCE PROVIDED:
AT 7% SLOPE B=20' (B= AVERAGE DISTANCE, UPHILL FROM SILT FENCE, GO UP 1.5' IN ELEVATION CHANGE)
⅔ OF SILT FENCE H=1.5' (28"*⅔)
161*½(B*H)=2,415 CF \ 27=36 CY STORAGE PROVIDED

NOTE: WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

SD2-E SEDIMENT STORAGE CALCULATIONS

DRAINAGE BASIN	DRAINAGE STRUCTURE	DRAINAGE AREA (ACRE) (A)	REQ. STORAGE (CY) (B)	REQ. STORAGE (CF) (C)	DEPTH (FT.) (D)	SAmin (SF) (E)	LENGTH (FT.) (F)	WIDTH (FT.) (FG)	PROVIDED SURFACE AREA WIDTH X LENGTH (SF.)	PROVIDED STORAGE (2' DEPTH) X WIDTH X LENGTH (CF.)	
4	A5	0.11	14.74	397.98	2.00	198.99	15.00	14.00	210.00	420.00	NOT EXCAVATED
3	A4	0.17	22.78	615.06	2.00	307.53	25.00	13.00	325.00	650.00	EXCAVATED
5	A3	0.12	16.08	434.16	2.00	217.08	15.00	15.00	225.00	450.00	EXCAVATED
6	A2	0.49	65.66	1772.82	2.00	886.41	36.00	25.00	900.00	1800.00	EXCAVATED

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
SCALE: 1" = 40'

NORTH ARROW
GA STATE PLANE WEST

REFER TO SHEET C-1.1 AND C-6.1 FOR EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES

Maintenance of all soil erosion and sedimentation control measures and practices, whether temporary or permanent, shall be at all times the responsibility of the property owner.

GSWCC EROSION CONTROL NOTES:

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 source.

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

Any 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.

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Project Information

MADISON METHODIST CHURCH
1091 CONFEDERATE RD
MADISON, GA 30650
ZONING: R1

DRAWING DATE:	01.22.25
DRAWN BY:	MCS
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
04-14-25	ADDRESS COMMENTS

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Sheet Title
INTERMEDIATE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN

Sheet Number
C-6.3

GEORGIA UNIFORM CODING SYSTEM
SOIL EROSION & SEDIMENT CONTROL

STRUCTURAL PRACTICES

Code	Practice	Symbol
Cd-Fs	Compost Filter Sock	Cd-Fs
Cd-Hb	Straw-Bale Check Dams	Cd-Hb
Cd-S	Stone Check Dams	Cd-S
Ch-1	Channel Stabilization Category 1 (Vegetated/Sod)	Ch-1
Ch-2	Channel Stabilization Category 2 (Rip-Rap, TRM)	Ch-2 Rip-Rap, TRM
Ch-3	Channel Stabilization Category 3 (Concrete)	Ch-3
Co	Construction Exit	Co
Cr	Construction Road Stabilization	Cr
Dc-A	Stream Diversion Channel (Geotextile, Sntz, or Polyethylene film)	Dc-A or
Dc-B	Stream Diversion Channel (Geotextile alone)	Dc-B
Dc-C	Stream Diversion Channel (Class I Rip-Rap and Geotextile)	Dc-C
Di	Diversion	Di
Dn1	Temporary Downdrain Structure	Dn1
Dn2	Permanent Downdrain Structure	Dn2
Fr	Filter Ring	Fr
Ga	Gabion	Ga
Gr	Grade Stabilization Structure	Gr
Lv	Level Spreader	Lv
Rd	Rock Filter Dam	Rd
Re	Retaining Wall	Re
Rf-B	Retrofit (Slotted Board Dam w/ Stone or Filter Fabric)	Rf-B
Rf-P	Retrofit (Perforated Wall- Round Pipe w/ Stone Filter)	Rf-P
Rf-Sg	Retrofit (Silt Control Gate)	Rf-Sg
Sd1-Bf	Sediment Barrier (Type = Brush Barrier)	Sd1-Bf
Sd1-Nb	Sediment Barrier (Type = Non-Sensitive Areas)	Sd1-Nb
Sd1-S	Sediment Barrier (Type = Sensitive Areas)	Sd1-S
Sd1-Cf	Sediment Barrier (Type = Compost Filter Media Sock)	Sd1-Cf
Sd2-B	Inlet Sediment Trap (Baffle Box)	Sd2-Cf
Sd2-B	Inlet Sediment Trap (Block & Gravel Drop Inlet Protection)	
Sd2-E	Inlet Sediment Trap (Excavated Inlet Sediment Trap)	
Sd2-F	Inlet Sediment Trap (Filter Fabric w/ Supporting Frame)	☐ Indicate type
Sd2-G	Inlet Sediment Trap (Gravel Drop Inlet Protection)	Sd2-G
Sd2-P	Inlet Sediment Trap (Curb Inlet Protection)	
Sd2-S	Inlet Sediment Trap (Sod Inlet Protection)	☐ Indicate type
Sd3	Temporary Sediment Basin	Sd3
Sd4	Temporary Sediment Trap	Sd4
Sk	Floating Filter Surface Skimmer	Sk
Sp8	Seep Berm	Sp8
St-B	Temporary Stream Crossing (Bridge)	St-B
St-C	Temporary Stream Crossing (Culvert)	St-C
St	Storm Drain Outlet Protection	St
Su	Surface Roughening	Su
Tc-F	Turbidity Curtain (Floating)	Tc-Cf
Tc-S	Turbidity Curtain (Staked)	☐ Indicate type
Tp	Topsoiling	Tp
Wt	Vegetated Waterway or Stormwater Conveyance Channel	Wt

VEGETATIVE MEASURES

Bf	Buffer Zone	Bf
Cs	Coastal Dune Stabilization (w/ Vegetation)	Cs
Ds1	Disturbed Area Stabilization (w/ Mulching Only)	Ds1
Ds2	Disturbed Area Stabilization (w/ Temporary Seeding)	Ds2
Ds3	Disturbed Area Stabilization (w/ Permanent Vegetation)	Ds3
Ds4	Disturbed Area Stabilization (w/ Sodding)	Ds4
Du	Dust Control on Disturbed Areas	Du
Fl-Co	Flocculants Coagulants	Fl-Co
Sb	Streambank Stabilization (Using Permanent Vegetation)	Sb
Ss	Slope Stabilization (Rolled Erosion Control Products (RECPs))	Ss
Tac-1	Tackifiers: Type I (Synthetic Polymers)	Tac-1
Tac-2	Tackifiers: Type II (Organic Polymers)	Tac-2
Tac-3	Tackifiers: Type III (Synthetic/ Organic Blends)	Tac-3
Tac-4	Tackifiers: Type IV (Organic Tackifiers w/ Synthetic Fibers)	Tac-4
Tac-5	Tackifiers: Type V (Synthetic/Organic Blends w/ Synthetic Fibers)	Tac-5

ALPHA SITE SET 05-16-2025

ONCE SITE IS STABILIZED, CONTRACTOR SHALL REMOVE TEMPORARY BMP'S

PH 2&3 LIMITS OF DISTURBANCE = 4.10 AC

NPDES SAMPLING POINT

Ds3 | Du
ALL DISTURBED AREAS

Tp
STOCKPILE LOCATION

TREE PROTECTION FENCE

60' R/W CONFEDERATE ROAD (PUBLIC)

4'X8' CONTACT INFORMATION SIGN

CONCRETE WASHOUT

TRASH RECEPTACLES

PORTABLE SANITATION UNITS

12' WIDE RIP RAP

EMERGENCY SPILLWAY

NOTE: WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

REFER TO SHEET C-1.1 AND C-6.1 FOR EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES

Maintenance of all soil erosion and sedimentation control measures and practices, whether temporary or permanent, shall be at all times the responsibility of the property owner.

GSWCC EROSION CONTROL NOTES:

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 source.

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

Any 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.

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GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
SCALE: 1" = 40'

NORTH ARROW
GA STATE PLANE WEST

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MADISON, GA 30650
ZONING: R1

DRAWING DATE:	01.22.25
DRAWN BY:	MCS
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
04-14-25	ADDRESS COMMENTS

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Sheet Title

FINAL EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN

Sheet Number

C-6.4

JASON P. BROWN
LEVEL II CERTIFIED DESIGN PROFESSIONAL
#53274 - EXP. 05.01.2026

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Contact 811 before you dig

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Ds1

GSWCC 2016 Edition

REQUIREMENT FOR REGULATORY COMPLIANCE

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to 6 months, but it shall be applied at the appropriate depth, depending on the material used, anchored and have a continuous 90% cover or greater of the soil surface.

Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than 6 months.

If any area will remain undisturbed for greater than 6 months, permanent vegetative techniques shall be employed. Refer to **Ds2-Disturbed Area Stabilization (With Temporary Seeding)**, **Ds3 - Disturbed Area Stabilization (With Permanent Seeding)**, and **Dx4 - Disturbed Area Stabilization (With Sodding)**.

SPECIFICATIONS (Mulching Without Seeding)

This standard applies to graded or cleared areas where seedlings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

Site Preparation

1. Grade to permit the use of equipment for applying and anchoring mulch.
2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
3. Loosen compact soil to a minimum depth of 3".

Mulching Materials (select one of the following materials and apply at the depth indicated):

1. Dry straw or hay shall be applied at a depth of 2" to 4" providing 90% soil coverage. One advantage of this material is easy application.
2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2" to 3". Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.
3. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

Anchoring Mulch (when mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.)

1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.
2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.
3. Apply polyethylene film on exposed areas.

Anchoring Mulch

1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20" or more in diameter and 8" to 12" apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately after application.
2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.
3. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) - (Ds1)

Ds2

GSWCC 2016 Edition

Table 6-4.1 - Temporary Cover or Companion Cover Crops

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

SPECIES	BROADCAST RATES	RESOURCE AREA[2]	PLANTING DATES BY RESOURCE AREA (SOLID lines indicate optimum dates, DOTTED lines indicate permissible, but marginal dates) J F M A M J J A S O N D	REMARKS
BARLEY *Hordeum vulgare*	Rate Per Acre[3] / Pure Live Seed Per 1000 sq.ft.			
alone	3 bu. (144 lbs) / 3.3 lbs	M - L		14,000 seed per pound. Winter hardy. Use on productive soils.
in mixture	½ bu. (24 lbs) / 0.6 lb	P		
		C		
LESPEDEZA, ANNUAL *Lespedeza striata*	Rate Per Acre[3] / Pure Live Seed Per 1000 sq.ft.			
alone	40 lbs / 0.9 lb	M - L		200,000 seed per pound. May volunteer for several years. Use inoculant EL.
in mixture	10 lbs / 0.2 lb	P		
		C		
LOVEGRASS, WEEPING *Eragrostis curvula*	Rate Per Acre[3] / Pure Live Seed Per 1000 sq.ft.			
alone	4 lbs / 0.1 lb	M - L		1,500,000 seed per pound. May last for several years, Mix with Serisea lespedeza.
in mixture	2 lbs / 0.05 lb	P		
		C		
MILLET, BROWNTOP *Panicum fasciculatum*	Rate Per Acre[3] / Pure Live Seed Per 1000 sq.ft.			
alone	40 lbs / 0.9 lb	M - L		137,000 seed per pound. Quick dense cover. Will provide excessive competition in mixtures if seeded at right rate.
in mixture	10 lbs / 0.2 lb	P		
		C		
MILLET, PEARL *Pennesetum glaucum*	Rate Per Acre[3] / Pure Live Seed Per 1000 sq.ft.			
alone	50 lbs / 1.1 lbs	M - L		88,000 seed per pound. Quick dense cover. May reach 9' in height. Not recommended for mixtures.
		P		
		C		
OATS *Avena sativa*	Rate Per Acre[3] / Pure Live Seed Per 1000 sq.ft.			
alone	4 bu. (128 lbs) / 2.9 lbs	M - L		13,000 seed per pound. Use on productive soils. Not as a winter hardy as rye or barley.
in mixture	1 bu. (32 lbs) / 0.7 lb	P		
		C		
RYE *Secale cereale*	Rate Per Acre[3] / Pure Live Seed Per 1000 sq.ft.			
alone	3 bu. (168 lbs) / 3.9 lbs	M - L		18,000 seed per pound. Quick cover, Drought tolerant and winter hardy.
in mixture	½ bu. (28 lbs) / 0.6 lb	P		
		C		
RYEGRASS, ANNUAL *Lolium temulentum*	Rate Per Acre[3] / Pure Live Seed Per 1000 sq.ft.			
alone	40 lbs / 0.9 lb	M - L		227,000 seed per pound. Dense cover. Very competitive and is not to be used in mixtures.
		P		
		C		
SUDANGRASS *Sorghum sudanense*	Rate Per Acre[3] / Pure Live Seed Per 1000 sq.ft.			
alone	60 lbs / 1.4 lbs	M - L		55,000 seed per pound, Good on droughty sites. Not recommended for mixtures.
		P		
		C		
TRITICALE *X-Triticosecale*	Rate Per Acre[3] / Pure Live Seed Per 1000 sq.ft.			
alone	3 bu. (144 lbs) / 3.3 lbs	C		Use on lower part of Southern Coastal Plain and in Atlantic Coastal Flatwoods only.
in mixture	½ bu. (24 lbs) / 0.6 lb			
WHEAT *Triticum aestivum*	Rate Per Acre[3] / Pure Live Seed Per 1000 sq.ft.			
alone	3 bu. (180 lbs) / 4.1 lbs	M - L		15,000 seed per pound. Winter hardy.
		P		
in mixture	½ bu. (30 lbs) / 0.7 lb	C		

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

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

[3] **M-L** represents the Mountain; Blue Ridge; and Ridges and Valleys MLRA's; **P** represents the Southern Piedmont MLRA's* **C** represents Southern Coastal Plain; Sand Hills; Black Lands; and Atlantic Coast Flatwoods MLRAs*

* Refer to Georgia Major Land Resource Areas Map

REQUIREMENT FOR REGULATORY COMPLIANCE

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Temporary grassing, instead of mulch, can be applied to tough graded areas that will be exposed for less than 6 months. If an area is expected to be undisturbed for longer than 6 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 6 months but it shall be applied at the appropriate depth, anchored, and have a continuous 90% cover or greater of the soil surface. Refer to specification **Ds1-Disturbed Area Stabilization (With Temporary Seeding).**

CONDITIONS

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

Contact NRCS or the local SWCD for more information.

SPECIFICATIONS

Grading and Shaping

Excessive water runoff shall be reduced by properly designed and installed erosion control practices such as closed drains, chutes, dikes, diversions, sediment barriers and others. No shaping or grading is required if slopes can be stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

Seedbed Preparation

When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or hand-seeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall. When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, trenched or otherwise scarified to provide areas where seed may lodge and germinate.

Lime and Fertilizer

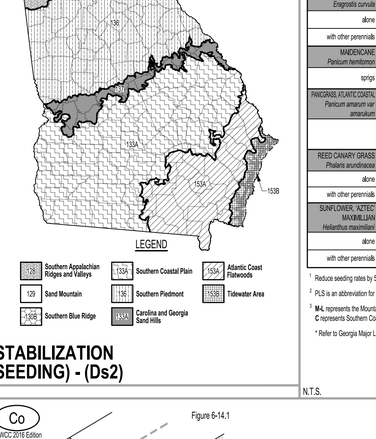
Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate determined by soil test for pH. Quick acting lime should be incorporated to modify pH during the germination period. Bio stimulants should also be considered when there is less than 3% organic matter in the soil. Graded areas require lime application. Soils must be tested to determine required amounts of fertilizer and amendments. Fertilizer should be applied before hand-seeding vegetation establishment, Mulch without seeding should be considered for short term protection. Refer to **Ds1 - Disturbed Area Stabilization (With Mulching Only).**

Irrigation

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

GEORGIA MAJOR LAND RESOURCE AREAS

Figure 6.4.1



DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) - (Ds2)

N.T.S.

Ds3

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Table 6-5.2- Permanent Cover Crops

PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER[1]

SPECIES	BROADCAST RATES	RESOURCE AREA[2]	PLANTING DATES BY RESOURCE AREA (SOLID lines indicate optimum dates, DOTTED lines indicate permissible, but marginal dates) J F M A M J J A S O N D	REMARKS
BAHIA, PENSACOLA *Paspalum notatum*	Rate Per Acre / Pure Live Seed[3] Per 1000 sq.ft.			
alone or with temporary cover	60 lbs	1.4 lbs	P	168,000 seed per pound. Low growing. Sod forming. Slow to establish. Plant with a companion crop. Will spread into Bermuda pastures and lawns. Mix with Serisea lespedeza or weeping lovegrass.
			C	
with other perennials	30 lbs	0.7 lb		
BAHIA, WILMINGTON *Paspalum notatum*	Rate Per Acre / Pure Live Seed[3] Per 1000 sq.ft.			
alone or with temporary cover	60 lbs	1.4 lbs	M - L	168,000 seed per pound. Low growing. Sod forming. Slow to establish. Plant with a companion crop. Will spread into Bermuda pastures and lawns. Mix with Serisea lespedeza or weeping lovegrass.
			P	
with other perennials	30 lbs	0.7 lb		
BERMUDA, COMMON *Cynodon dactylon*	Rate Per Acre / Pure Live Seed[3] Per 1000 sq.ft.			
Hulled seed alone	10 lbs	0.2 lb	P	1,787,000 seed per pound. Quick cover. Low growing and sod forming. Full sun. Good for athletic fields.
with other perennials	6 lbs	0.1 lb	C	
BERMUDA, COMMON *Cynodon dactylon*	Rate Per Acre / Pure Live Seed[3] Per 1000 sq.ft.			
Unhulled seed with temporary cover	10 lbs	0.2 lb	P	Plant with winter annuals.
with other perennials	6 lbs	0.1 lb	C	Plant with Tall Fescue
BERMUDA SPRIGS *Cynodon dactylon*	Rate Per Acre / Pure Live Seed[3] Per 1000 sq.ft.			
Coastal, Common, Midland, or Tift 44	40 cu. ft. or sod plugs 3' x3'	0.9 cu. ft.	M - L	Cubic foot = approx. 600 sprigs. A bushel contains 1.25 cubic feet or approx. 800 sprigs.
Coastal, Common, or Tift 44			P	
Tift 78			C	Southern Coastal Plain only
CENTIPEDE *Eremochloa ophiuroides*	Rate Per Acre / Pure Live Seed[3] Per 1000 sq.ft.			
	Block sod only		P	Drought tolerant. Full sun or partial shade. Effective adjacent to coastline and in concentrated flow areas. Irrigation is needed until fully established. Will not survive on pedicures. Winter kill as far north as Cobb, Atlanta and Gwinnett.
			C	
CROWNVETCH *Coronilla varia*	Rate Per Acre / Pure Live Seed[3] Per 1000 sq.ft.			
with winter annuals or cool season grasses	15 lbs	0.3 lb	M - L	100,000 seed per pound. Dense growth. Drought tolerant. Winter hardy. Resistant. Attractive rose, pink and white blossoms during late May. Mix with 20 lbs of Tall Fescue to 30 lbs of hay. Inoculate with Crownvetch inoculant. Use from North Alabama to Virginia.
			P	
			C	
FESCUE, TALL *Festuca arundinacea*	Rate Per Acre / Pure Live Seed[3] Per 1000 sq.ft.			
alone	50 lbs	1.1 lbs	M - L	227,000 seed per pound. Use alone on better soils. Mix with perennial lespedeza or Crownvetch. Highly expressing in spring following fall plantings. Not for heavy use areas or athletic fields.
with other perennials	30 lbs	0.7 lb	P	
LESPEDEZA SERICEA *Lespedeza cuneata*	Rate Per Acre / Pure Live Seed[3] Per 1000 sq.ft.			
scarified	60 lbs	1.4 lbs	M - L	350,000 net per pound. Hinds, vaseys, Low maintenance. Mix with Weeping lovegrass, Common hulled bermuda, tall fescue, Tetra 2x3 yearly to become established and improved. Inoculate seed with EL inoculant.
			P	
			C	
unscarified	75 lbs	1.7 lbs	M - L	Mix with Tall fescue or winter annuals.
			P	
			C	
seed-bearing hay	3 tons	1338 lbs	M - L	Cut when seed mixture is mature, but before, it shatters. Add Tall fescue or winter annuals.
			P	
			C	
LESPEDEZA, SHRUB *Ambro virgata* Lespedeza virgata DC or *Appalow* Lespedeza cuneata (Dumont) G. Don)	Rate Per Acre / Pure Live Seed[3] Per 1000 sq.ft.			
scarified	60 lbs	1.4 lbs	M - L	350,000 seed per pound. Height of growth is 10'x2'. Advantageous in urban areas. Spreads/escape growth. New growth has bronze coloration. Mix with weeping lovegrass, common bermuda, tall fescue or winter annuals. Inoculate seed with EL inoculant. Will not survive in heavy traffic areas. Provide adequate support for young plants. Provide weed control for young plants. Will survive in partial shade. Inoculate seed with EL inoculant.
			P	
			C	
unscarified	75 lbs	1.7 lbs	M - L	
			P	
			C	
LESPEDEZA, SHRUB *Lespedeza bicolor* Lespedeza thunbergii	Rate Per Acre / Pure Live Seed[3] Per 1000 sq.ft.			
plants	3'x3'		M - L	Provide wildlife food and cover.
			P	
			C	
LOVEGRASS, WEEPING *Eragrostis curvula*	Rate Per Acre / Pure Live Seed[3] Per 1000 sq.ft.			
alone	4 lbs	0.1 lb	M - L	1,500,000 seed per pound. Quick cover. Drought tolerant. Grows well with Serisea lespedeza on roadbanks.
			P	
with other perennials	2 lbs	0.05 lb	C	
MAIDENCANE *Panicum hemitomon*	Rate Per Acre / Pure Live Seed[3] Per 1000 sq.ft.			
sprigs	2'x3' spacing	ALL		Use in very wet sites. May dog shamrock. Dig sprigs from local sources. Use along river banks and shorelines.
RINGGRASS, ATLANTIC COAST *Panicum amarum var amarulum*	Rate Per Acre / Pure Live Seed[3] Per 1000 sq.ft.			
			P	Grows well on coastal sand dunes, dunnes areas, and gravel pits. Provides food and cover for wildlife. Mix with Serisea lespedeza except on sand dunes.
	20 lbs	0.5 lb	C	
REED CANARY GRASS *Phalaris arundinacea*	Rate Per Acre / Pure Live Seed[3] Per 1000 sq.ft.			
alone	50 lbs	1.1 lbs	M - L	Grows similar to Tall fescue
with other perennials	30 lbs	0.7 lb	P	
SUNFLOWER, 'AZTEC' MAXIMILLIAN *Helianthus maximilliani*	Rate Per Acre / Pure Live Seed[3] Per 1000 sq.ft.			
alone	10 lbs	0.2 lb	M - L	227,000 seed per pound. Mix with Weeping lovegrass or other low-growing grasses or legumes.
with other perennials			P	
			C	

[1] Reduce seeding rates by 50% when drilled

[2] PLS is an abbreviation for Pure Live Seed. Refer to Section V.E. of these specifications.

[3] **M-L** represents the Mountain; Blue Ridge; and Ridges and Valleys MLRAs*; **P** represents the Southern Piedmont MLRA* **C** represents Southern Coastal Plain; Sand Hills; Black Lands; and Atlantic Coast Flatwoods MLRAs*

* Refer to Georgia Major Land Resource Areas Map

Table 6-5.1, Fertilizer Requirements

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT (N-P-K)	RATE	N TOP DRESSING RATE
1. Cool Season Grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2/
	Second	6-12-12	1000 lbs./ac.	
	Maintenance	10-10-10	400 lbs./ac.	30 lbs./ac.
2. Cool Season Grasses and Legumes	First	6-12-12	1500 lbs./ac.	0-50 lbs./ac. 1/
	Second	0-10-10	1000 lbs./ac.	—
	Maintenance	0-10-10	400 lbs./ac.	—
3. Ground Covers	First	10-10-10	1300 lbs./ac. 3/	—
	Second	15-10-10	1300 lbs./ac. 3/	—
	Maintenance	15-10-10	1000 lbs./ac.	—
4. Pine Seedlings	First	20-10-5	one tablespoon per seedling placed in the mineral soil.	—
5. Shrub Lespedeza	First	10-10-10	700 lbs./ac.	—
	Maintenance	0-10-10	700 lbs./ac. 4/	—
6. Temporary cover crops seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/
7. Warm Season Grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2/6/
	Second	6-12-12	800 lbs./ac.	50-100 lbs./ac. 2/
	Maintenance	10-10-10	400 lbs./ac.	30 lbs./ac.
8. Warm Season Grasses & Legumes	First	6-12-12	1500 lbs./ac.	50 lbs./ac.6/
	Second	0-10-10	1000 lbs./ac.	—
	Maintenance	0-10-10	400 lbs./ac.	—

1/ Apply in spring following establishment.
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 3" to 4".

Table 6-5.3, Durable Shrubs and Ground Covers for Permanent Cover

Ground covers include a wide range of low-growing plants planted together in considerable numbers to cover large areas of the landscape. Ground covers grow slower than grasses, Weeds are likely to compete, especially the first year. Maintenance is needed to insure survival. These ground covers will not be used unless proper maintenance is planned. Maintain mulch at 3" thickness until plants provide adequate cover. Fall planting is encouraged because the need for constant watering is reduced and plants have time to establish new roots before hot weather.

COMMON NAME	SCIENTIFIC NAME	MATURE HEIGHT	PLANT SPACING	COMMENT
Abelia	*Abelia grandiflora*	3'-4'	5'	Also a prostrate form 1' high. Sun, semi-shade, Semi evergreen.
Carolina Yellow Jessamine	*Gelsemium sempervirens*	low	3'	Vine. Yellow, trumpetlike flowers. Hardy, one of best vines. Evergreen. Native to GA.
Carpet Blue	*Ajuga reptans*	2"-4"	3'	Needs good drainage, partial shade. Blue or white flowers. Evergreen.
Bearberry Cotoneaster	Cotoneaster *dammeri*	2'-4'	5'	White flowers, fruit. Sun, Evergreen.
Ground Cover Cotoneaster	Cotoneaster *adpressus 'Reperti'*	1'-2'	5'	White flowers, red fruit. Sun, Evergreen.
Rock Cotoneaster	Cotoneaster *horizontalis*	1'-2'	5'	Semi-Evergreen. Sun.
Virginia Creeper	Parthenocissus *quinquefolia*	low	3'	Red in fall. Vine. Deciduous. Native to GA.
Daylily	Hemerocallis spp.	2-3'	3'	Many flower colors. Full sun. Very hardy.
Compacta Holly	*Ilex cornuta 'Compacta'*	3'-4'	5'	Sun, Semi-shade.
Chinese Holly	*Ilex cornuta 'Rotunda'*	3'-4'	5'	Very durable, Sun, Semi-shade.
Dwarf Burford Holly	*Ilex burfordii 'Nana'*	5'-8'	8'	- -
Dwarf Yaupon Holly	*Ilex vomitoria 'Nana'*	3'-4'	5'	Very durable. Sun, Semi-shade.
Repandens Holly	*Ilex cornuta 'Repandens'*	2'-3'	5'	Sun, Semi-shade.
Andorra Juniper	Juniperus *horizontalis 'Plumosa'*	2'-3'	5'	Excellent for slopes. Sun.
Andorra Compacta Juniper	Juniperus horizontalis *'Plumosa compacta'*	1'-2'	5'	More compact than Andorra.
Andorra Compacta Juniper	Juniperus horizontalis *'Plumosa Compacta'*	1'-2'	5'	More compact than Andorra.
Blue Chip Juniper	Juniperus horizontalis *'Blue Chip'*	6"-10"	4'	- -
Blue Rug Juniper	Juniperus horizontalis *'Wiltonii'*	4"-6"	3'	Very low. Sun.
Parsons Juniper	Juniperus davurica Expansa *(Squamata parsonii)*	18"-24"	5'	One of the best, good winter cover.
Pfitzer Juniper	Juniperus chinensis *'Pfitzerana'*	6'-8'	6'	Needs room.
Prince of Wales Juniper	Juniperus horizontalis *'Prince of Wales'*	8"-10"	4'	Feathery appearance.
Sargent Juniper	Juniperus chinensis *'Sargentii'*	1'-2'	5'	Full sun. Needs good drainage. Good winter color.
Shore Juniper	Juniperus conferta	2-3'	5'	Emerald Sea or Blue Pacific cultivars are good.
Liriope	Liriope muscari	8"-10"	3'	Semi-shade.
Creeping Liriope	Liriope spicata	10"-12"	1'	Spreads by runners.
Big Leaf Periwinkle	Vinca major	12"-15"	4'	Lilac flowers in spring, Semi-shade.
Common Periwinkle	Vinca minor	5"-6"	4'	Lavender-blue flowers in spring, Semi-shade.
Cherokee Rose	Rosa laevigata	2'	5'	Rampant grower, Not for restricted spaces. Rose flowers. Rampant grower.
Memoria Rose	Rosa wechuriana	2'	5'	
St. Johnswort	Hypericum calycenum	8"-12"	3'	Semi-shade.
Anthony Waterer Spirea	Spirea bumalda	3'-4'	5'	Sun.
Thunberg Spirea	Spirea thunbergii	3'-4'	5'	Sun.

Table 6-5.4, Trees for Erosion Control

SITE	SOIL MATERIAL	COMMON SOILS	PLANTING TREE SPECIES[1]	SPACING	PLANTING DATES[2]
Borrow areas, grade areas, and spoil material	Sandy	Lakeland Troup	Loblolly Pine (*Pinus taeda*)	2	M - L P 12/1- 3/15 C 12/1- 3/1
	Loamy	Orangeburg Tifton	Loblolly Pine (*Pinus taeda*)	2	
			Slash Pine (*Pinus elliottii*)		
	Clay	Cecil, Faceville	Slash Pine (*Pinus elliottii*)	2	M - L P 12/1- 3/15 C 12/1- 3/1
			Virginia Pine (*Pinus virginiana*)		
Streambanks	- -	- -	Willows[3] (*Salix spp.*)	2' x 2'	ALL

[1] Other trees and shrubs listed on Table 6-25.3 may be interplanted with the pines for improved wildlife benefits.

[2] **Type of Planting** — Trees Alone: Trees in Combination w/ grasses and/or other plants

Spacing	No. of Trees per Acre
4' x 4'	2,722
6' x 6'	1,210

[3] **M-L** represents the Mountain; Blue Ridge; and Ridges and Valleys MLRAs*; **P** represents the Southern Piedmont MLRA*; **C** represents Southern Coastal Plain; Sand Hills; Black Lands; and Atlantic Coast Flatwoods MLRAs*

* Refer to Georgia Major Land Resource Areas Map

[4] Fertilization of companion crop is ample for this species.

REQUIREMENT FOR REGULATORY COMPLIANCE

This practice shall be applied immediately to rough graded areas that will be undisturbed for longer than 6 months. This practice or sodding shall be applied immediately to all areas at final grade. Final Stabilization means that all soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by the EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures.

Permanent vegetation shall consist of, planted trees, shrubs, perennial vines, or a crop of perennial vegetation appropriate for the region, such that within the growing season a 70% coverage by perennial vegetation shall be achieved. Final stabilization applies to each phase of construction. For linear construction projects on land used for agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land for its agricultural or silvicultural use. Until this standard is satisfied and permanent control measures and facilities are operational, interim stabilization measures and temporary erosion and sedimentation control measures shall not be removed.

CONDITIONS

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

PLANNING CONSIDERATIONS

1. Use conventional planting methods where possible.
2. When mixed plantings are done during marginal planting periods, companion crops shall be used.
3. No-till planting is effective when planting is done following a summer or winter annual cover crop, Serisea lespedeza planted no-till into stands of rye is an excellent procedure.
4. Block sod provides immediate cover, it is especially effective in controlling erosion adjacent to concrete flumes and other structures. Refer to Specification **Dx4-Disturbed Area Stabilization (With Sodding).**
5. Irrigation should be used when the soil is dry or when summer plantings are done.
6. Low maintenance plants, as well as natives, should be used to ensure long-lasting erosion control.
7. Mowing should not be performed during the quail nesting season (May to September).
8. Wildlife plantings should be included in critical area plantings.

Wildlife Plantings

Commercially available plants beneficial to wildlife species are listed in the following:

Mast Bearing Trees

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

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

Shrubs and Small Trees

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

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

Grasses, Legumes, Vines and Temporary Cover

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

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

CONSTRUCTION SPECIFICATIONS

Grading and Shaping

Grading and shaping may not be required where hydraulic seeding and fertilizing equipment is to be used. Vertical banks shall be sloped to enable plant establishment. When conventional seeding and fertilizing are to be done, grade and shape where feasible and practical, so that equipment can be used safely and efficiently during seedbed preparation, seeding, mulching and maintenance of the vegetation. Concentrations of water that will cause excessive soil erosion shall be diverted to a safe outlet. Diversions and other treatment practices shall conform with the appropriate standards.

Lime and Fertilizer Rates and Analysis

Agricultural lime is required at the rate of 1-2 tons per acre unless soil tests indicate otherwise. Graded areas require lime application. If lime is applied within 6 months of planting permanent perennial vegetation, additional lime is not required. Agricultural lime shall be within the specifications of the GA Department of Agriculture. Limes shall be considered equivalent to calcium carbonate if they contain dolomitic limestone. Ground limestone is calcitic or dolomitic limestone ground so that 50% of the material will pass through a 50-mesh sieve, not less than 35% will pass through a 300-mesh sieve and not less than 25% will pass through a 100-mesh sieve. Fast-acting lime spread by hydraulic seeding equipment should pass through a 100-mesh sieve. Agricultural lime is considered to have no more than 5% moisture content. Fertilizer shall be uniform in composition, free flowing and suitable for application with standard equipment. It is recommended that fertilizer be applied according to the soil test recommendations. Refer to **Table 6-5.1**. Agricultural lime is generally not required unless only trees are planted. Initial fertilization, nitrogen, topdressing, and maintenance fertilizer requirements for each species or consideration of species are listed in **Table 6-5.1.**

Lime and Fertilizer Application

When hydraulic seeding equipment is used, the initial fertilizer shall be mixed with seed, inoculant (if needed), and wood cellulose or wood pulp fiber mulch and applied in a slurry. The inoculant, if needed, shall be mixed into the seed prior to being placed into the hydraulic seeder. The slurry mixture will be agitated during application to insure the ingredients thoroughly mixed. The mixture will be spread uniformly over the area within one hour after being placed in the hydroseeder. Finely ground limestone can be applied with the slurry or in combination with the top dressing. When conventional planting is to be done, the fertilizer shall be applied uniformly on the surface of the following ways:

1. Apply before bird preparation so that it will be mixed with the soil during seedbed preparation 2/. Mix with the soil used to fill the holes, distribute in furrows. 3. Broadcast over the entire area. Soil should be "tilled" lightly to cover all seed and fertilizer.

CONSTRUCTION SPECIFICATIONS

Once pavement has been installed, a curb inlet filter shall be installed on inlets receiving runoff from disturbed areas. This method of inlet protection shall be removed if a safety hazard is created.

One method of curb inlet protection uses "pigs-in-a-blanket" - 8" concrete blocks wrapped in filter fabric. Another method uses gravel bags constructed by wrapping DOT #57 stone with filter fabric, wire, plastic mesh, or equivalent material.

A gap of approximately 4" shall be left between the inlet filter and the inlet to allow overflow and prevent hazardous ponding in the roadway. Proper installation and maintenance are crucial due to possible ponding in the roadway, resulting in a hazardous condition.

MAINTENANCE

The trap shall be inspected daily and after each rain, and repairs made as needed. Sediment shall be removed when the sediment has accumulated to one-half the height of the trap.

Sediment shall be removed from curb inlet protection immediately. Sediment shall not be washed into the inlet, it shall be removed from the sediment trap, disposed of and stabilized so that it will not enter the inlet again.

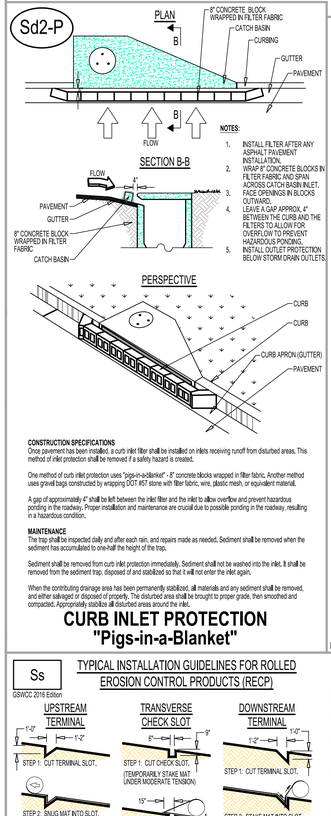
When the contributing drainage area has been permanently stabilized, all materials and any sediment shall be removed, and either salvaged or disposed of properly. The disturbed area shall be brought to proper grade, then smoothed and compacted. Appropriately stabilize all disturbed areas around the inlet.

CURB INLET PROTECTION "Pigs-in-a-Blanket"

N.T.S.

Sd2-P

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NOTES:

1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET, FACE OPENINGS IN BLOCKS OUTWARD.
3. LEAVE A GAP APPROX. 4" BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
4. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.

CONSTRUCTION SPECIFICATIONS

Once pavement has been installed, a curb inlet filter shall be installed on inlets receiving runoff from disturbed areas, This method of inlet protection shall be removed if a safety hazard is created.

One method of curb inlet protection uses "pigs-in-a-blanket" - 8" concrete blocks wrapped in filter fabric. Another method uses gravel bags constructed by wrapping DOT #57 stone with filter fabric, wire, plastic mesh, or equivalent material.

A gap of approximately 4" shall be left between the inlet filter and the inlet to allow overflow and prevent hazardous ponding in the roadway. Proper installation and maintenance are crucial due to possible ponding in the roadway, resulting in a hazardous condition.

MAINTENANCE

The trap shall be inspected daily and after each rain, and repairs made as needed. Sediment shall be removed when the sediment has accumulated to one-half the height of the trap.

Sediment shall be removed from curb inlet protection immediately. Sediment shall not be washed into the inlet, it shall be removed from the sediment trap, disposed of and stabilized so that it will not enter the inlet again.

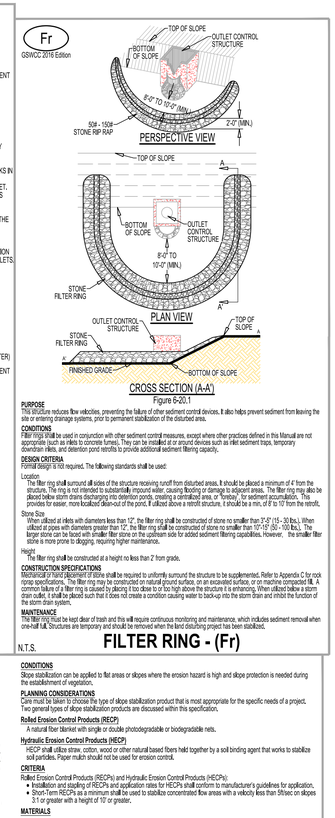
When the contributing drainage area has been permanently stabilized, all materials and any sediment shall be removed, and either salvaged or disposed of properly. The disturbed area shall be brought to proper grade, then smoothed and compacted. Appropriately stabilize all disturbed areas around the inlet.

CURB INLET PROTECTION "Pigs-in-a-Blanket"

N.T.S.

Fr

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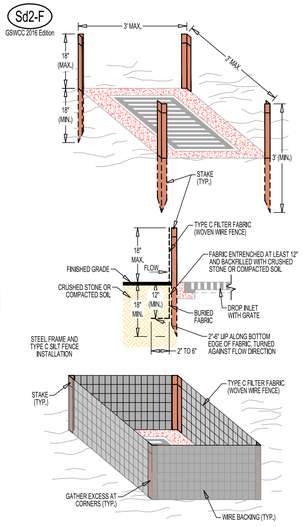


PURPOSE

This STRUCTURE reduces flow velocities, preventing the failure of other sediment control devices. It also helps prevent sediment from leaving the site or entering drainage systems prior to permanent stabilization of the disturb

Sd2-F

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NOTE

1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAX. OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

Figure 6-28.1 - Fabric and Supporting Frame For Inlet Projection

PURPOSE
To prevent sediment from entering a storm drainage systems prior to permanent stabilization of the disturbed area draining to the inlet.

CONDITIONS
All storm drain drop inlets that receive runoff from disturbed areas.

DESIGN CRITERIA
Through testing there are 2 different categories (high retention and high flow) supported. In areas where BMPs are being used on paved surfaces, or safety is a concern, the potentially negative effects of ponding should be taken into account. In such cases, a high flow BMP is preferred. On unpaved areas where ponding will not cause a safety hazard, high retention shall be taken into account. If high retention is not used in this situation a rationale shall be given on the plan and an unpaved application should apply. Sediment traps must be self-draining unless they are otherwise protected in an approved fashion that will not present a safety hazard. The drainage area entering the inlet sediment trap shall be no greater than 1 acre. If runoff may bypass the protected inlet, a temporary dike should be constructed on the down slope side of the structure. Also, a stone filter ring may be used on the up slope side of the inlet to slow runoff and filter larger sand particles. **Refer to Fr-Stone Filter Ring.**

CONSTRUCTION SPECIFICATIONS
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 Figure 6-28.1, Type C silt fence supported by steel posts should be used. The stakes shall be spaced evenly around the perimeter of the inlet a maximum of 3' apart, and securely driven into the ground, approximately 18" deep. The fabric shall be 36" tall and entrenched 12" and backfilled with crushed stone or compacted soil. Fabric and wire shall be securely fastened to the posts, and fabric ends must be overlapped a minimum of 18" or wrapped together around a post to provide a continuous fabric barrier around the inlet.

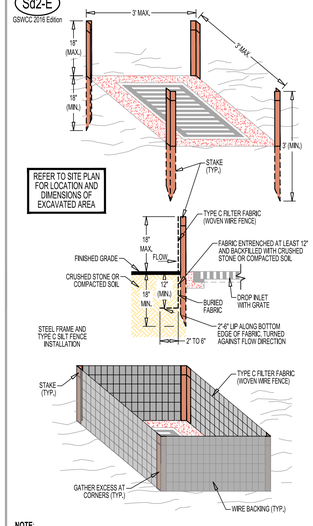
MAINTENANCE
The trap shall be inspected daily and after each rain, and repairs made as needed. Sediment shall be removed when the sediment has accumulated to one-half the height of the trap. Sediment shall be removed from curb inlet protection immediately. For excavated inlet sediment traps, sediment shall be removed when one-half of the sediment storage capacity has been lost to sediment accumulation. Sod inlet protection shall be maintained as specified in Dd4 - Disturbed Area Stabilization (With Sodding). Sediment shall not be washed into the inlet. It shall be removed from the sediment trap, disposed of and stabilized so that it will not enter the inlet again. When the contributing drainage area has been permanently stabilized, all materials and any sediment shall be removed, and either salvaged or disposed of properly. The disturbed area shall be brought to proper grade, then smoothed and compacted. Appropriately stabilize all disturbed areas around the inlet.

INLET SEDIMENT TRAP (FILTER FABRIC W/ SUPPORTING FRAME) - (Sd2-F)

N.T.S.

Sd2-E

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NOTE

1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAX. OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

Figure 6-28.1 - Fabric and Supporting Frame For Inlet Projection

An excavation may be created around the inlet sediment trap to provide additional sediment storage. The trap shall be sized to provide a minimum storage capacity calculated at the rate of 67 cubic yards per acre of drainage area. A minimum depth of 1.5 feet for sediment storage should be provided. Side slopes shall not be steeper than 2:1

CONSTRUCTION SPECIFICATIONS
Filter Fabric with Supporting Frame
Silt fence material with wire reinforcement and supported by steel posts should be used. The stakes shall be spaced evenly around the perimeter of the inlet a maximum of 3' apart, and securely driven into the ground, approximately 18" deep. The fabric shall be 36" tall and entrenched 12" and backfilled with crushed stone or compacted soil. Fabric and wire shall be securely fastened to the posts, and fabric ends must be overlapped a minimum of 18" or wrapped together around a post to provide a continuous fabric barrier around the inlet.

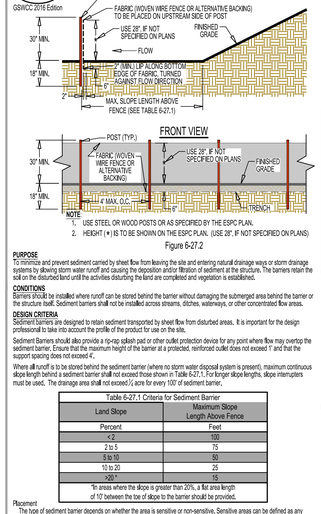
MAINTENANCE
The trap shall be inspected daily and after each rain, and repairs made as needed. Sediment shall be removed when the sediment has accumulated to one-half the height of the trap. Sediment shall be removed from curb inlet protection immediately. For excavated inlet sediment traps, sediment shall be removed when one-half of the sediment storage capacity has been lost to sediment accumulation. Sod inlet protection shall be maintained as specified in Dd4 - Disturbed Area Stabilization (With Sodding). Sediment shall not be washed into the inlet. It shall be removed from the sediment trap, disposed of and stabilized so that it will not enter the inlet again. When the contributing drainage area has been permanently stabilized, all materials and any sediment shall be removed, and either salvaged or disposed of properly. The disturbed area shall be brought to proper grade, then smoothed and compacted. Appropriately stabilize all disturbed areas around the inlet.

EXCAVATED INLET SEDIMENT TRAP - (Sd2-E)

N.T.S.

Sd1-S

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NOTE

1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE ESPC PLAN.
2. HEIGHT (•) IS TO BE SHOWN ON THE ESPC PLAN. (USE 28", IF NOT SPECIFIED ON PLANS)

Figure 6-27.2

PURPOSE
To minimize and prevent sediment carried by sheet flow from leaving the site and entering natural drainage way or storm drainage systems by allowing storm water runoff and causing the deposition and/or filtration of sediment at the structure. The barriers retain the soil on the disturbed land until the activities disturbing the land are completed and vegetation is established.

CONDITIONS
Barriers should be installed where runoff can be stored behind the barrier without damaging the submerged area behind the barrier or the structure itself. Sediment barriers shall not be installed across streams, ditches, waterways, or other concentrated flow areas.

DESIGN CRITERIA
Sediment barriers are designed to retain sediment transported by sheet flow from disturbed areas. It is important for the design professional to take into account the product he or she uses on the site.

Sediment Barriers should also provide a rip-rap splash pad or other outlet protection device for any point where flow may overtop the sediment barrier. Ensure that the maximum height of the barrier at a protected, reinforced outlet does not exceed 1' and that the support spacing does not exceed 4'.

Where all runoff is to be stored behind the sediment barrier (where no storm water disposal system is present), maximum continuous slope length behind a sediment barrier shall not exceed those shown in Table 6-27.1. For longer slope lengths, slope interrupters must be used. The drainage area shall not exceed ¼ acre for every 100' of sediment barrier.

Table 6-27.1 Criteria for Sediment Barrier

Land Slope	Maximum Slope Length Above Fence
Percent	Feet
< 2	100
2 to 5	75
5 to 10	50
10 to 20	25
>20 *	15

*In areas where the slope is greater than 20%, a flat area length of 10' between the toe of slope to the barrier should be provided.

Placement
The type of sediment barrier depends on whether the area is sensitive or non-sensitive. Sensitive areas can be defined as any area that needs additional protection. These areas include, but are not limited to, state waters, wetlands, or any area the design professional designates as sensitive. When using multiple types of sediment barriers on a site in a single run, the barriers must be overlapped 18" or as specified by the design professional. See Figure 6-27.5.

CONSTRUCTION SPECIFICATIONS
Sediment barriers being used as Type S shall have a support spacing of no greater than 4' on center, with each being driven into the ground a minimum of 18".

*As of January 1, 2016, in the existing Georgia Department of Transportation Qualified Products List #36 (QPL- 36), Type C will fall under sensitive applications and be classified as sensitive. Refer to Appendix A-2 and the Equivalent BMP List.

PRACTICE CLASSIFICATIONS
For silt fence Type C, refer to Table 6-27.4.

Type C Silt Fence
Type C fence is 36" wide with wire reinforcement or equivalent. The wire reinforcement is necessary because this fabric allows almost three times the flow rate as Type A silt fence. Type C silt fence shall be used where runoff flows or velocities are particularly high or where slopes exceed a vertical height of 10'. **Type C is classified as sensitive application.**

Installation
Sediment barriers should be installed along the contour. Temporary sediment barriers shall be installed according to the following specifications as shown on the plans or as directed by the design professional. For installation of sensitive barriers, see Figure 6-27.2 and 6-27.5.

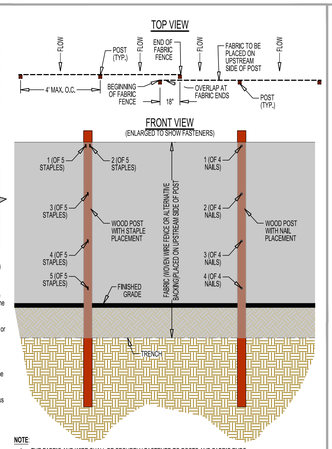
Post installation shall start at the center of a low point (if applicable) with the remaining posts spaced no greater than 4' apart for Type S sediment barriers. For post size requirements, see Table 6-27.2. Fasteners for wood posts are listed in Table 6-27.3.

Static Slicing Method
The static slicing machine pulls a narrow blade through the ground to create a slit 12" deep, and simultaneously inserts the silt fence fabric into this slit behind the blade. The blade is designed to slightly displace soil upward next to the slit and to minimize horizontal compaction, thereby creating an optimum condition for compacting the soil vertically on both sides of the fabric. Compaction is achieved by rolling a tractor wheel along both sides of the slit in the ground 2 to 4 times to achieve nearly the same or greater compaction as the original undisturbed soil. This vertical compaction reduces the air spaces between soil particles, which minimizes infiltration. Without this compaction, infiltration can saturate the soil, and water may find a pathway under the fence. When a silt fence is holding back several tons of accumulated water and sediment, it needs to be supported by posts that are driven 18" into the soil. Driving in the posts and attaching the fabric to them completes the installation.

Trenching Method
Trenching machines have been used for over 25 years to dig a trench for burying part of the filter fabric underground. Usually the trench is about 2'-6" wide with a 6" excavation. Post setting and fabric installation often precede compaction, which make effective compaction more difficult to achieve. EPA supported an independent technology evaluation (ASCE 2001), which compared 3 progressively better variations of the trenching method with static slicing. The static slicing method performed better than 2 lower performance levels of the trenching method, and was as good as or better than the trenching method's highest performance level. The best trenching method typically required nearly triple the time and effort to achieve results comparable to the static slicing method.

Along all State Waters and other sensitive areas, 2 rows of Sensitive Area(s) Sediment Barrier (Type C Silt Fence) shall be used. The 2 rows of Sensitive Area(s) Sediment Barrier (Type C Silt Fence) shall be placed a minimum of 36" apart.

MAINTENANCE
Sediment shall be removed once it has accumulated to ½ the original height of the barrier. Sediment barriers shall be replaced whenever they have deteriorated to such an extent that the effectiveness of the product is reduced (approximately 6 months) or the height of the product is not maintaining 80% of its properly installed level. 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.



NOTE

1. THE FABRIC AND WIRE SHALL BE SECURELY FASTENED TO POSTS AND FABRIC ENDS.
2. MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE CONTINUOUS FABRIC BARRIER.

Figure 6-27.5

Table 6-27.2 Post Size

Type	Min. Length	Type of Post	Size of Post
S	4'	Steel	1.1lb-1.25 lb./ ft. min
		Oak	2"x2"

Table 6-27.3 Fasteners for Wood Posts

Type	Gauge	Crown	Legs	Staples per Post
Wire Staples	17 min.	¾" wide	½" long	5 min.
Type	Gauge	Length	Button Heads	Nails per Post
Nails	14 min.	1"	¾"	4 min.

Note: Filter Fabric may also be attached to the post by wire, cords, and pockets.

Table 6-27.4

	Type C Fabric Fence
Tensile Strength (Lbs. Min.)[1] (ASTM D-4632)	Warp - 260 Fill - 180
Elongation (% Max.) (ASTM D-4632)	40
AOS (Apparent Opening Size) (Max. Sieve Size) (ASTM D-4751)	#30
Flow Rate (Gal/Min/Sq. Ft.) (QDT-87)	70
Ultraviolet Stability [2] (ASTM D-4632 after 300 hours weathering in accordance with ASTM D-4355)	80
Bursting Strength (PSI Min.) (ASTM D-3786 Diaphragm Bursting Strength Tester)	175
Minimum Fabric Width (Inches)	36

[1] Minimum roll average of five specimens.
[2] Percent of required initial minimum tensile strength.

SENSITIVE AREA(S) SEDIMENT BARRIER (TYPE C SILT FENCE) - (Sd1-S)

N.T.S.

Tp

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DEFINITION
Stripping off the more fertile top soil, storing it, then spreading it over the disturbed area after completion of construction activities.

PURPOSE
To provide suitable soil medium for vegetative growth on areas where other measures will not produce or maintain a desirable stand.

CONDITIONS
The practice is recommended for sites of 2:1 or flatter slopes where:

1. The texture of the exposed subsoil or parent material is not suitable to produce adequate vegetative growth
2. The soil material is so shallow that the rooting zone is not deep enough to support plants with continuing supplies of moisture and food.
3. The soil to be vegetated contains material toxic to plant growth.

CONSTRUCTION SPECIFICATIONS

MATERIALS
Topsoil should be friable and loamy, free of debris, objectionable weeds, and stones and contain no toxic substances that may be harmful to plant growth. A pH range of 5.5-7.5 is acceptable. Soluble salts shall not exceed 500 ppm.

TESTING
Field exploration should be made to determine whether the quantity and quality of surface soil justifies stripping.

STRIPPING
Stripping should be confined to the immediate construction area.

A 4 to 6 inch stripping depth is common but may vary depending on the particular soil.

TOPSOIL pH
If the pH value is less than 6.0, lime shall be applied and incorporated with the topsoil to adjust the pH to 6.5 or higher. Topsoil containing soluble salts greater than 500 ppm shall not be used.

STOCKPILES
The location of topsoil stockpiles should not obstruct the natural drainage or cause off-site environmental damage.

STABILIZATION
Stockpiles shall be contained by sediment barriers to prevent sedimentation on adjacent areas. Stockpiles shall be stabilized in accordance with specifications **Ds1 and Ds2 - Disturbed Area Stabilization (with Mulching) and (with Temporary Grassing), respectively or Tac-Tackifiers.**

SITE PREPARATION
(Where topsoil is to be added)

TOPSOILING
When topsoiling, maintain needed erosion control practices such as diversions, grade stabilization structures, berms, dikes, level spreaders, waterways, sediment basins, etc.

GRADING
Grades on the areas to be topsoiled that have been previously established shall be maintained.

LIMING
Soil tests should be used to determine the pH of the soil. Where the pH of the subsoil is 5.0 or less or composed of heavy clays, agricultural limestone shall be spread at the rate of 100 pounds per 1,000 square feet. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedure.

Bonding - Use one of the following methods to insure bonding of topsoil and subsoil

1. Tilling. After the areas to be topsoiled have been brought to grade, and immediately prior to dumping and spreading the topsoil, the subgrade shall be loosened by discing or scarifying to a depth of at least 3 inches to permit bonding of the topsoil and subsoil.
2. Tracking. Passing a bulldozer over the entire surface are of the slope to leave horizontal depressions.

APPLYING TOPSOIL

1. Topsoil should be handled only when it is dry enough to work without damaging soil structure.
2. A uniform application of 5 inches (unsettled) is recommended, but may be adjusted at the discretion of the design professional.

Figure 6-37.1 - Fabric and Supporting Frame For Inlet Projection

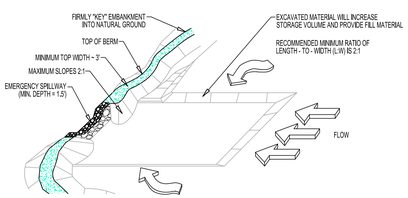
CUBIC YARDS OF TOPSOIL REQUIRED FOR APPLICATION TO VARIOUS DEPTHS

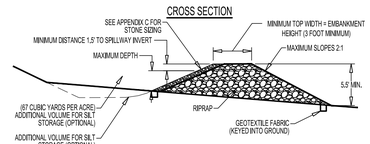
Depth (inches)	Per 1,000 SF	Per Acre
1	3.1	134
2	6.2	268
3	9.3	403
4	12.4	537
5	15.5	672
6	18.6	806

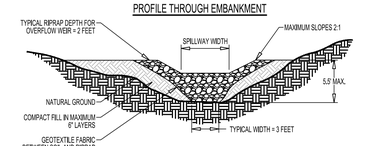
TOPSOILING - (Tp)

N.T.S.

TEMPORARY SEDIMENT TRAP (ROCK OUTLET) SD4-C





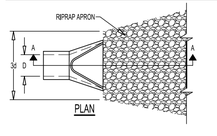


N.T.S.

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STORM DRAIN OUTLET PROTECTION (USING RIP-RAP)

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



PIPE OUTLET TO WELL DEFINED CHANNEL

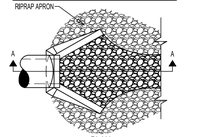


Figure 6-34.3 - Riprap Outlet Protection

NOTES:

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

CONSTRUCTION SPECIFICATIONS
1. Ensure that the subgrade for the filter and rip-rap follows the required lines and grades shown in the plan. Compact any fill required in the subgrade to the density of the surrounding undisturbed material. Low areas in the subgrade on undisturbed soil may also be filled by increasing the rip-rap thickness.
2. The rip-rap and gravel filter must conform to the specified grading limits shown on the plans.
3. Geotextile must meet design requirements and be properly protected from punching or tearing during installation. Repair any damage by removing the rip-rap and placing another piece of filter fabric over the damaged area. All connecting joints should overlap a minimum of 1 ft. If the damage is extensive, replace the entire filter fabric.
4. Rip-rap may be placed by equipment, but take care to avoid damaging the filter.
5. The minimum thickness of the rip-rap should be 1.5 times the maximum stones diameter.
6. Construct the apron on zero grade with no overfall at the end. Make the top of the rip-rap at the downstream end level with the receiving area or slightly below it.
7. Ensure that the apron is properly aligned with the receiving stream and preferably straight throughout its length. If a curve is needed to fit site conditions, place it in the upper section of the apron.
8. Immediately after construction, stabilize all disturbed areas with vegetation.
9. Stone quality - Select stone for rip-rap from field stone or quarry stone. The stone should be hard, angular, and highly weather-resistant. The specific Gravity of the individual stones should be at least 2.5.
10. Filter - Install a filter to prevent soil movement through the openings in the rip-rap. The filter should consist of a graded gravel layer or a synthetic filter cloth.

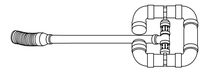
MAINTENANCE
Inspect rip-rap outlet structures after heavy rains to see if any erosion around or below the rip-rap has taken place or if stones have been dislodged. Immediately make all needed repairs to prevent further damage.

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

SKIMMER PERSPECTIVE



SKIMMER FRONTAL SECTION VIEW

SKIMMER SIDE SECTION VIEW

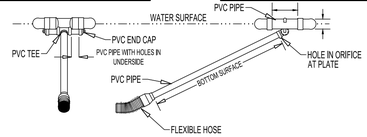


Figure 6-31.4

TO BE SHOWN ON THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN
WHEN A FLOATING SURFACE SKIMMER IS USED, SHOW THE FOLLOWING INFORMATION ALONG WITH EACH SEDIMENT POND, TRAP OR BASIN BEING USED ON SITE

1. POND TRAP OR BASIN SIZE, LENGTH* (TOP AND BOTTOM), WIDTH* (TOP AND BOTTOM) AND DEPTH =

BASIN SIZE- 2841 CF

2. TIME TO DRAIN (HRS)= 72 HOURS

SKIMMER SIZE- 1.5" ORIFICE RADIUS- 0.6"
3. SKIMMER DIMENSIONS (ORIFICE AND HEAD SIZE) **ORIFICE DIAMETER- 1.1"**

4. MANUFACTURER'S NAME FAIRCLOTH SKIMMER

***FEET,**INCHES**

ALPHA SITE SET 05-16-2025

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GEORGIA REGISTERED NO. PE024888 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

MADISON METHODIST CHURCH
1091 CONFEDERATE RD
MADISON, GA 30650
ZONING: R1

DRAWING DATE:	01.22.25
DRAWN BY:	MCS
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
04-14-25	ADDRESS COMMENTS

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Sheet Title

EROSION, SEDIMENTATION, AND POLLUTION CONTROL DETAILS

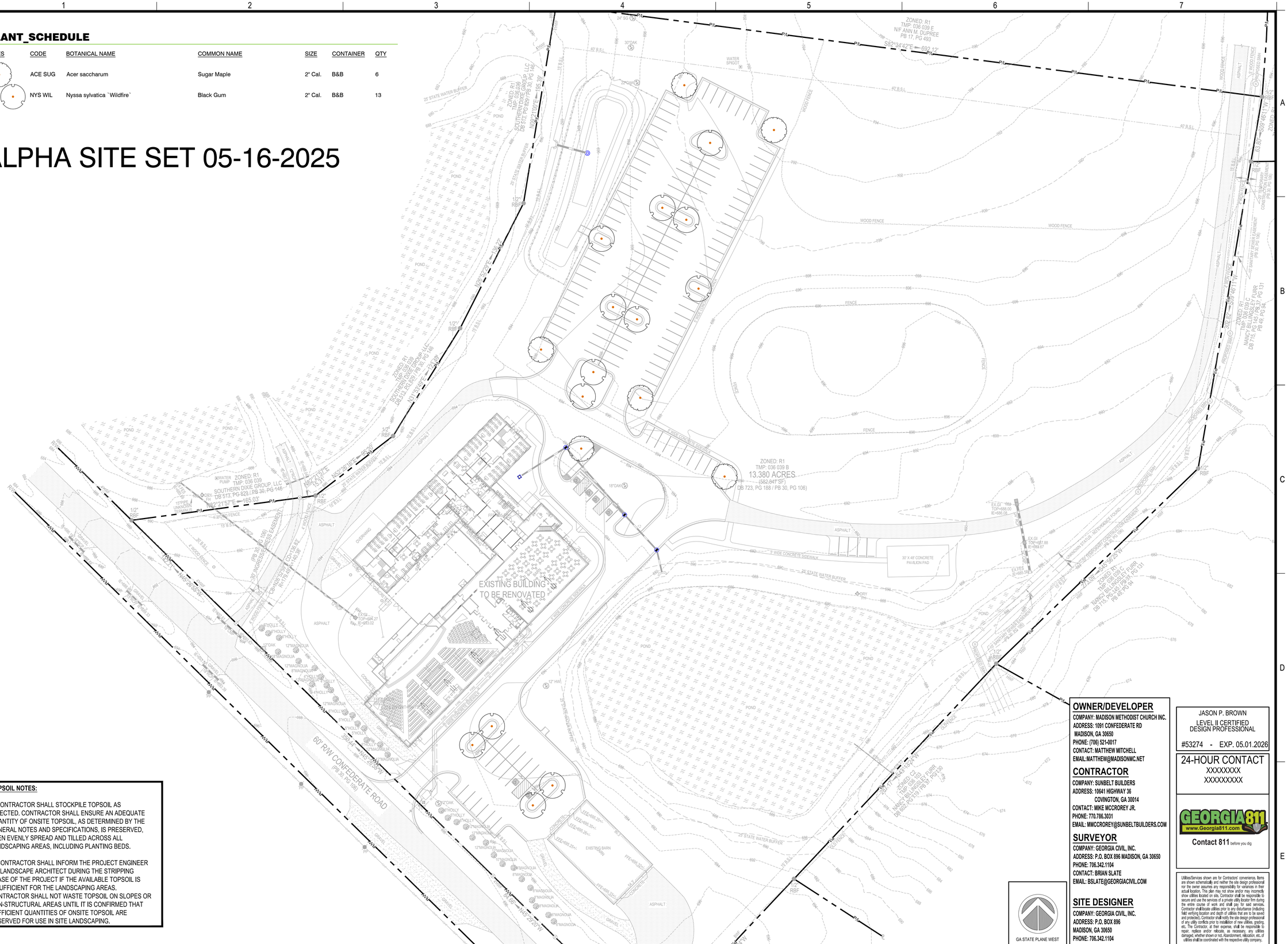
Sheet Number

C-6.6

PLANT_SCHEDULE

TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY
	ACE SUG	Acer saccharum	Sugar Maple	2" Cal.	B&B	6
	NYS WIL	Nyssa sylvatica `Wildfire`	Black Gum	2" Cal.	B&B	13

ALPHA SITE SET 05-16-2025



TOPSOIL NOTES:

1. CONTRACTOR SHALL STOCKPILE TOPSOIL AS DIRECTED. CONTRACTOR SHALL ENSURE AN ADEQUATE QUANTITY OF ONSITE TOPSOIL, AS DETERMINED BY THE GENERAL NOTES AND SPECIFICATIONS, IS PRESERVED, THEN EVENLY SPREAD AND TILLED ACROSS ALL LANDSCAPING AREAS, INCLUDING PLANTING BEDS.

2. CONTRACTOR SHALL INFORM THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT DURING THE STRIPPING PHASE OF THE PROJECT IF THE AVAILABLE TOPSOIL IS INSUFFICIENT FOR THE LANDSCAPING AREAS. CONTRACTOR SHALL NOT WASTE TOPSOIL ON SLOPES OR NON-STRUCTURAL AREAS UNTIL IT IS CONFIRMED THAT SUFFICIENT QUANTITIES OF ONSITE TOPSOIL ARE RESERVED FOR USE IN SITE LANDSCAPING.

OWNER/DEVELOPER
COMPANY: MADISON METHODIST CHURCH INC.
ADDRESS: 1091 CONFEDERATE RD
MADISON, GA 30650
PHONE: (706) 521-0017
CONTACT: MATTHEW MITCHELL
EMAIL:MATTHEW@MADISONMC.NET

CONTRACTOR
COMPANY: SUNBELT BUILDERS
ADDRESS: 10641 HIGHWAY 36
COVINGTON, GA 30014
CONTACT: MIKE MCCOREY JR.
PHONE: 770.786.3031
EMAIL: MMCCOREY@SUNBELTBUILDERS.COM

SURVEYOR
COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896 MADISON, GA 30650
PHONE: 706.342.1104
CONTACT: BRIAN SLATE
EMAIL: BSLATE@GEORGIACIVIL.COM

SITE DESIGNER
COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896
MADISON, GA 30650
PHONE: 706.342.1104

JASON P. BROWN
LEVEL II CERTIFIED DESIGN PROFESSIONAL
#53274 - EXP. 05.01.2026

24-HOUR CONTACT
XXXXXXXX
XXXXXXXXX

GEORGIA811 www.Georgia811.com
Contact 811 before you dig

Utilities/Services shown are for Contractors' convenience. Items are shown schematically and neither the site design professional nor the owner assumes any responsibility for variances in their actual location. This plan may not show and/or may incorrectly show utilities located on site. Contractor shall be responsible to secure and use the services of a private utility locator firm during the entire course of work and shall pay for said services. Contractor shall locate utilities prior to any disturbance (including field verifying location and depth of utilities that are to be saved and protected). Contractor shall notify the site design professional of any utility conflicts prior to installation of new utilities, grading, etc. The Contractor, at their expense, shall be responsible to repair, replace and/or relocate, as necessary, any utilities damaged, whether shown or not. Abandonment, relocation, etc. of utilities shall be coordinated with the respective utility company.

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www.georgiacivil.com

Professional Seal

GEORGIA REGISTERED NO. PE021459 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

MADISON METHODIST CHURCH

1091 CONFEDERATE RD
MADISON, GA 30650
ZONING: R1

DRAWING DATE:	01.22.25
DRAWN BY:	MCS
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
04-14-25	ADDRESS COMMENTS

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Sheet Title

LANDSCAPE PLAN

Sheet Number

C-7.0

GENERAL PLANTING NOTES

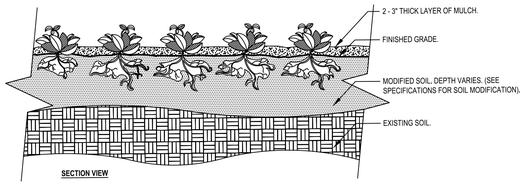
1. SELECTION:
   A. ALL PLANT MATERIALS TO BE (GEORGIA #1) OR BETTER (GEORGIA FANCY) DEFINED AND SPECIFIED ACCORDING TO GRADES AND STANDARDS FOR NURSERY STOCK PUBLISHED BY THE DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES DIVISION OF PLANT INDUSTRY UTILIZING THE LATEST UPDATED EDITION.
   B. ALL PLANT MATERIAL SHALL MEET THE MINIMAL SIZE REQUIREMENT AS STATED ON THE PLANT LIST.
   C. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO INSPECT AND REJECT PLANTS AT ANY TIME AND AT ANY LOCATION. LANDSCAPE ARCHITECT WILL DECIDE FINAL APPROVAL OF ALL PLANT MATERIAL DELIVERED TO THE PROJECT SITE.
   D. THE LANDSCAPE ARCHITECT MAY MAKE SELECTION OF PLANT MATERIAL PROCURED UNDER THIS PROJECT AT THE PLACE OF CULTIVATION BEFORE THE CONTRACTOR PURCHASES AND PREPARES FOR DELIVERY TO PROJECT SITE. THE CONTRACTOR IS TO RETAIN AND SUBMIT CERTIFICATION TAGS VERIFYING TYPE AND PURITY OF LANDSCAPE MATERIAL.
   E. ALL PLANTS SHALL BE OF SELECTED SPECIMEN QUALITY. UNLESS OTHERWISE NOTED, PLANTS SHALL BE EXCEPTIONALLY DENSE WITH A NATURALISTIC BRANCHING CHARACTER AS INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT.
   F. LANDSCAPE CONTRACTOR SHALL REFER TO PLANTING PLAN AND PLANT LIST FOR MATERIAL PROCUREMENT. QUANTITY ESTIMATES ON THE PLANTING PLAN AND PLANT LIST ARE FOR REFERENCE ONLY.
   G. CONTRACTOR SHALL FURNISH ALL QUANTITIES NECESSARY TO COMPLETE PLANTING AREAS AS SHOWN ON THE DRAWING TO ACCEPTANCE AND SATISFACTION AT THE LANDSCAPE ARCHITECT.
   H. THE CONTRACTOR SHALL REPORT TO THE LANDSCAPE ARCHITECT SHOULD THERE BE CHANGES IN THE PLANTING AREAS ON SITE RESULTING IN SUBSTANTIAL DIFFERENCE IN QUANTITIES AND SPECIES REQUIRED.
   I. WARRANTY: ALL PLANTS SHALL BE WARRANTED TO REMAIN ALIVE AND HEALTHY AND IN VIGOROUSLY THRIVING CONDITION FOR PERIOD OF 1 YEAR FROM DATE OF FINAL ACCEPTANCE.

2. EXECUTION:
   A. THE LANDSCAPE CONTRACTOR SHALL FURNISH ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH DRAWINGS, SPECIFICATIONS AND INSTRUCTIONS PROVIDED BY LANDSCAPE ARCHITECT.
   B. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AS NECESSARY TO EXECUTE AND COMPLETE PROPOSED LANDSCAPE / IRRIGATION INSTALLATION IN A TIMELY MANNER COMPLYING WITH THE SCHEDULED COMPLETION DATE.
   C. WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE INTENTIONS OF THE SPECIFIED DRAWINGS. ALL WORK PERFORMED BY THE CONTRACTOR SHALL BE OF BEST QUALITY AND TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT.
   D. PLANTING PLANS INDICATE DIAGRAMMATIC LOCATION ONLY. SITE ADJUSTMENTS OF PLANTING DESIGN AND RELOCATION OF PLANT MATERIAL INSTALLED PRIOR TO LANDSCAPE ARCHITECT APPROVAL SHALL BE DONE WITHOUT PENALTY OR ADDITIONAL COST TO OWNER.
   E. LANDSCAPE CONTRACTOR SHALL STAKE AND/OR MARK ALL TREE AND PLANT LOCATIONS AT SITE AND NOTIFY LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PLANT INSTALLATION.
   F. UTILITIES: THE LANDSCAPE CONTRACTOR SHALL DETERMINE LOCATION OF ALL ABOVE GRADE AND UNDERGROUND UTILITIES PERFORM WORK THAT WILL AVOID DAMAGE TO UTILITIES. THE CONTRACTOR SHALL MAKE GOOD ALL DAMAGED UTILITIES AT NO COST TO OWNER.
   G. DRAINAGE: CONTRACTOR SHALL CONDUCT PERCOLATION TEST IN AREAS TO BE PLANTED: NOTIFY LANDSCAPE ARCHITECT OF ANY POOR DRAINAGE PROVIDE SUPPLEMENTAL PIT DRAINAGE AS REQUIRED TO ENSURE HEALTHY PLANT MATERIALS (SEE SPECIFICATIONS FOR DETAILS)
   IF DRAINAGE IS NOT SUFFICIENT NOTIFY LANDSCAPE ARCHITECT BEFORE INSTALLING THE PLANTS. OTHERWISE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR THE GUARANTEE AND LIVABILITY OF THE PLANT.

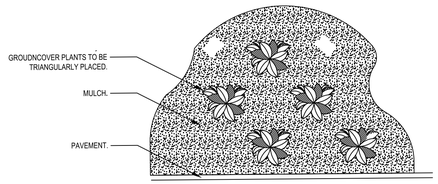
3. GENERAL PLANTING:
   A. THE CONTRACTOR'S FIELD SUPERVISOR SHALL ACCOMPANY LANDSCAPE ARCHITECT ON ALL PLANT TAGGING AND SITE VISITS.
   B. CONTRACTOR SHALL PLACE 2" DEPTH OF AGED MUSHROOM COMPOST IN ALL PLANTING BEDS THAT ARE WELL DRAINED. MUSHROOM COMPOST SHALL THEN BE THOROUGHLY TILLED INTO EXISTING SOIL TO A DEPTH OF 10"-12" PRIOR TO PLANTING.
   C. PLACE PLANTS UPRIGHT AND TURNED SO THAT THE MOST ATTRACTIVE SIDE VIEWED.
   D. PROVIDE 1" THICK MULCH (MEASURED AFTER WATERING IN) AT ALL PLANTS AND PLANTING BEDS. MULCH SHALL BE DOUBLE SHREDDED OR FINE HARDWOOD UNLESS OTHERWISE NOTED ON THE PLANS OR DETAILS.
   E. PROVIDE A CLEAN SHARP EDGING OF LANDSCAPE BEDS ADJACENT TO LAWN AREAS UNLESS OTHERWISE NOTED.
   F. CONTRACTOR SHALL BE RESPONSIBLE FOR "ROLLING" ALL SOD THAT IS INSTALLED (ON THE DAY THE SOD IS INSTALLED). HOWEVER, NO SOD SHALL BE LAID WHERE THE GRADE IS NOT CORRECT.

4. TREE PLANTING:
   A. REMOVE FIRST 8-10" OF WIRE BASKET FROM ROOTBALLS. IF REMOVAL WILL RESULT IN ROOTBALL INJURY, CUT AND REMOVE WIRES ONCE IN HOLE TO ALLOW FOR ROOT EXPANSION.
   B. MULCH SAUCERS TO BE 8' (MIN.) DIAMETER FOR ALL TREES NOT INCLUDED W/I A MULCH BED.
   C. STAKING AND GUYING DETAILS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE TO ADAPT STAKING AND GUYING METHOD ACCORDING TO SITE CONDITIONS.
   D. THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE STAKING AND GUYING PERIODICALLY AS NECESSARY OR AS INSTRUCTED BY LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL MAINTAIN PLANT MATERIAL IN AN UPRIGHT POSITION AT ALL TIMES DURING THE CONTRACT PERIOD.
   E. STAKING AND GUYING OF TREES SHALL BE FOR THE PURPOSE OF ESTABLISHMENT ONLY. STAKING AND GUYING DETAILS ARE NOT DESIGNED OR ENGINEERED TO WITHSTAND STRONG WIND OR WINDSTORM CONDITIONS.
   F. IF CONTRACTOR SEES ANY SITUATION ON THE SITE WHERE A TREE IS TO BE STAKED WITH ARBORTIES, BUT IT APPEARS TO PRESENT A SAFETY HAZARD TO RESIDENCE OF THE PROPERTY, THEIR CHILDREN OR THEIR GUEST, THE TREE SHALL NOT BE STAKED AND LANDSCAPE ARCHITECT SHALL BE NOTIFIED.
   G. SPECIMEN TRANSPLANTED TREE PROTECTION IS THE OWNER'S RESPONSIBILITY.
   H. PROPER DRAINAGE FROM ROOTBALL IS THE RESPONSIBILITY OF THE CONTRACTOR
   I. USE ARBORGUARD WEBBING TO SECURE PLANT, SPACE STAKES EQUALLY AT 120° ANGLES AROUND TREE
   J. NYLON WEBBING SHOULD BE SECURED IN SUCH A WAY AS TO ALLOW SOME MOVEMENT OF TREE
   K. PLANT TREE 2" ABOVE FINISHED GRADE IF MIXING SOIL TYPES, OTHERWISE PLANT AT FINISHED GRADE

5. PRUNING AND MAINTENANCE:
   A. PRUNING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO REMOVE DEAD OR INJURED TWIGS AND BRANCHES AND TO COMPENSATE FOR THE LOSS OF ROOTS AS A RESULT OF TRANSPLANTING OPERATION AND TO MAINTAIN SAFETY IN VEHICULAR AREAS.
   B. PRUNING SHALL BE DONE IN SUCH A MANNER AS TO NOT CHANGE THE NATURAL HABIT OR SHAPE OF THE PLANT. ALL CUTS SHALL BE MADE FLUSH, LEAVING NO STUBS ACCORDING TO A.N.A STANDARDS.
   C. THE LANDSCAPE ARCHITECT SHALL BE THE SOLE PARTY TO APPROVE ALL APPROPRIATE PRUNING.
   D. MAINTENANCE WORK AS DESCRIBED IN THE SPECIFICATIONS SHALL BE PERFORMED TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT AND UNTIL DATE OF THE FINAL ACCEPTANCE BY OWNER AND LANDSCAPE ARCHITECT.



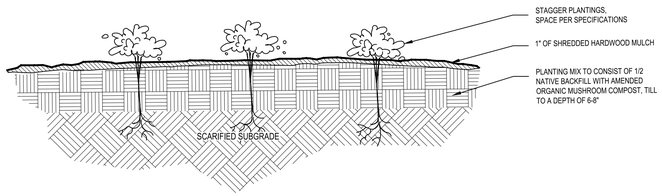
SECTION VIEW



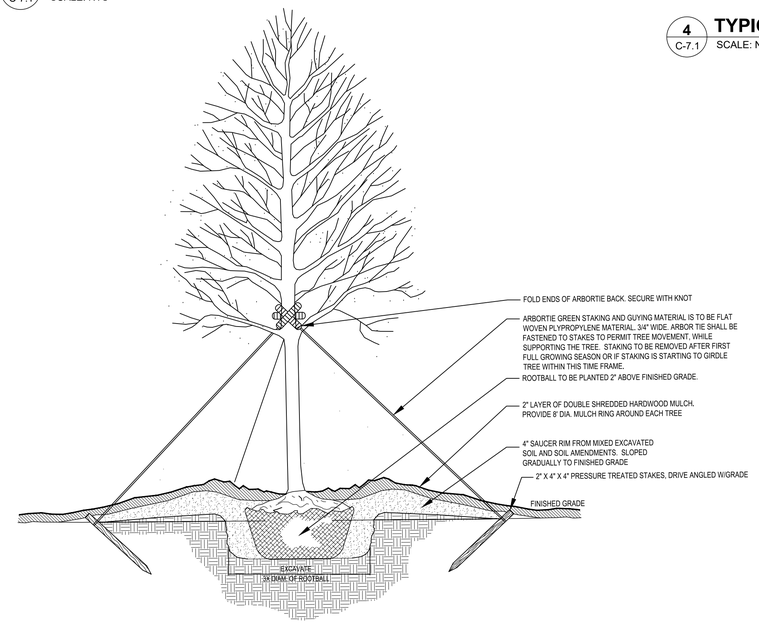
PLAN

Notes:
1- SEE PLANTING LEGEND FOR GROUNDCOVER SPECIES , SIZE AND SPACING DIMENSION.
2- SMALL ROOTS (¼" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPERHY CAN BE REMOVED AT THE TIME OF PLANTING. (SEE ROOT BALL SHAVING CONTAINER DETAIL)
3- SETTLE SOIL AROUND ROOT BALL OF EACH GROUNDCOVER PRIOR TO MULCHING.

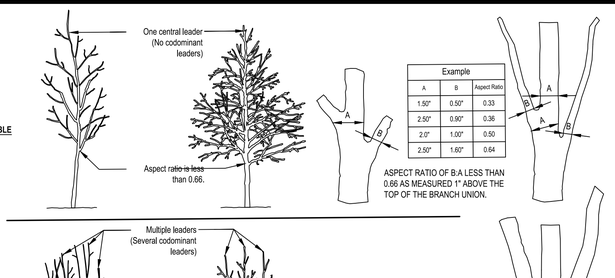
1 GROUNDCOVER
C-7.1 SCALE: NTS



3 TYPICAL PLANTING DETAIL - CONTAINER OR PLUG
C-7.1 SCALE: NTS

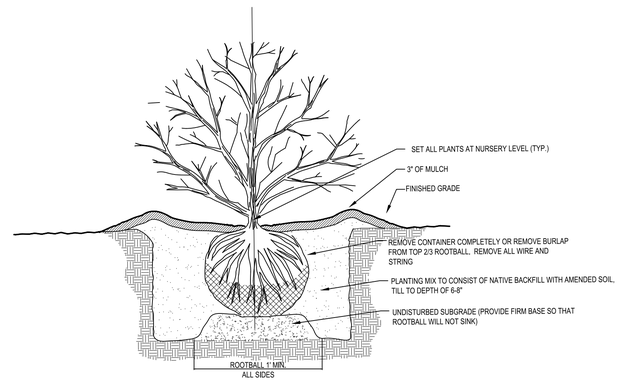


5 TYPICAL TREE PLANTING DETAIL - BALL AND BURLAP
C-7.1 SCALE: NTS



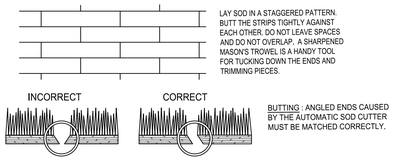
NOTES:
1- ASPECT RATIO SHALL BE LESS THAN 0.66 ON ALL BRANCH UNIONS. ASPECT RATIO IS THE DIAMETER OF BRANCH (B) DIVIDED BY THE DIAMETER OF THE TRUNK (A) AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.
2- ANY TREE NOT MEETING THE CROWN OBSERVATIONS DETAIL MAY BE REJECTED.

2 CROWN OBSERVATIONS - HIGH BRANCHED
C-7.1 SCALE: NTS



4 TYPICAL SHRUB PLANTING DETAIL - BALL AND BURLAP
C-7.1 SCALE: NTS

SOD LAYOUT AND PREPARATION



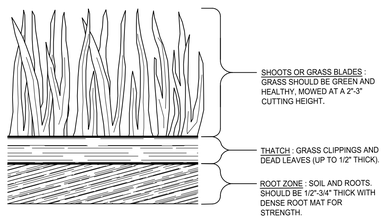
DIRECTIONS FOR INITIAL MAINTENANCE

Step 1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.

Step 2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.

Step 3. MOW WHEN THE SOD IS ESTABLISHED – IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

APPEARANCE OF GOOD SOD



5 SOD MAINTENANCE AND INSTALLATION
C-7.1 SCALE: NTS

ALPHA SITE SET 05-16-2025

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Professional Seal

GEORGIA REGISTERED NO. PE025403 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

MADISON METHODIST CHURCH
1091 CONFEDERATE RD
MADISON, GA 30650
ZONING: R1

DRAWING DATE:	01.22.25
DRAWN BY:	MCS
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
04-14-25	ADDRESS COMMENTS

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Sheet Title

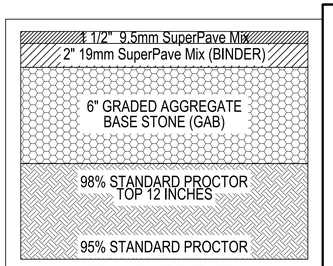
LANDSCAPE DETAILS

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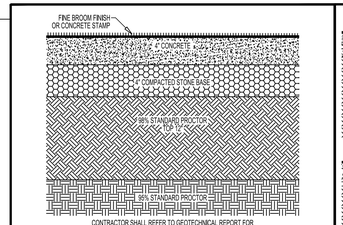
Sheet Number

C-7.1



STANDARD DUTY ASPHALT PAVING SECTION

N.T.S.

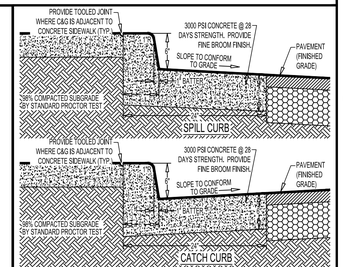


NOTES:

CONTROL JOINTS:	12'-0" O.C. (MAX)	CONCRETE SHALL BE:	
ISOLATION JOINTS:	ABUTTING ANY STRUCTURE	3000 P.S.I. @ 28 DAYS 6X6 W9/1.4 X W1.4 (2" FROM BOTTOM) FINE BROOM FINISH	

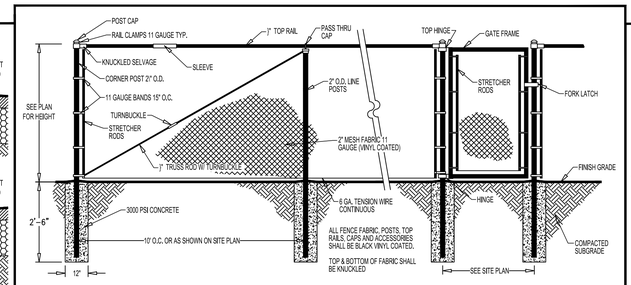
STANDARD DUTY (PEDESTRIAN) CONCRETE SECTION

N.T.S.



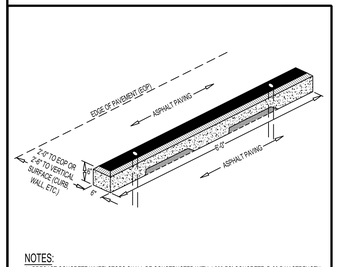
24" CONCRETE CURB & GUTTER

N.T.S.



VINYL COATED CHAIN LINK FENCE

N.T.S.

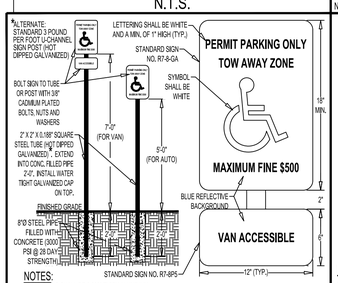


NOTES:

1. PRECAST CONCRETE WHEELSTOPS SHALL BE CONSTRUCTED WITH 4,000 PSI CONCRETE @ 28 DAY STRENGTH WITH STEEL REBAR REINFORCING. PROVIDE STEEL ATTACHMENT SPIKES COUNTERSUNK INTO PAVING AND FLUSH WITH TOP OF WHEELSTOP.

PRECAST WHEEL STOP

N.T.S.

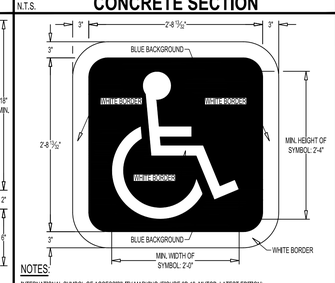


NOTES:

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

ADA PARKING SIGN

N.T.S.

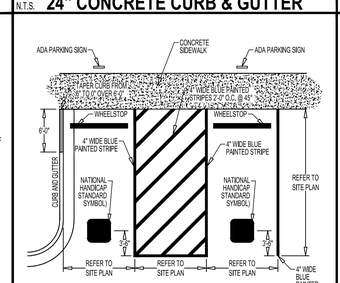


NOTES:

INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING (FIGURE 3B-19, MUTCD, LATEST EDITION) TO BE CENTERED IN PARKING SPACE APPROX. 1.5' FROM THE ENTRANCE OF THE PARKING SPACE

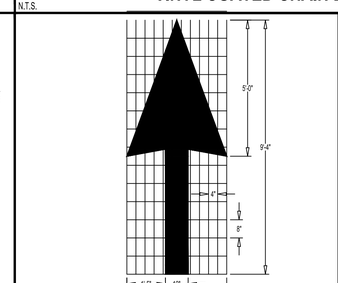
INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING

N.T.S.



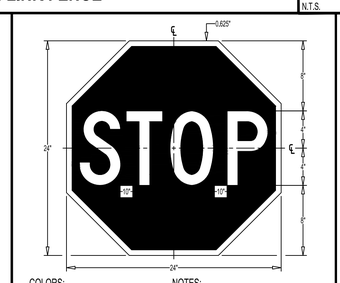
ADA PARKING STRIPING

N.T.S.



PAVEMENT MARKING ARROW TYPE I, WHITE (12.0 SQ. FT.)

N.T.S.



COLORS:

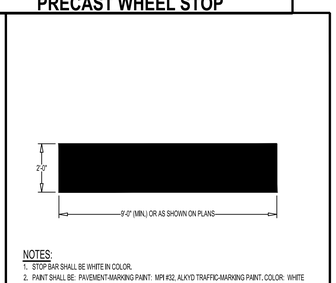
1. LEGEND - WHITE (RETROREFLECTIVE)
2. BACKGROUND - RED (RETROREFLECTIVE)

NOTES:

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION.

STOP SIGN (STD. R1-1)

N.T.S.



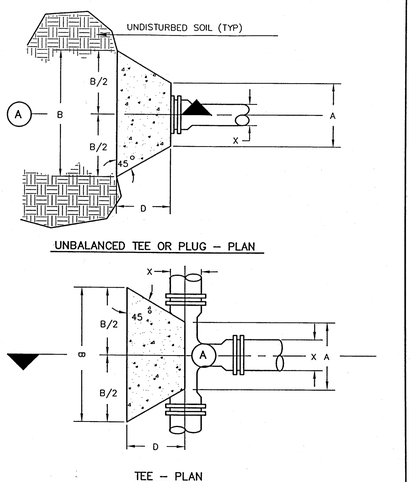
NOTES:

1. STOP BAR SHALL BE WHITE IN COLOR.
2. PAINT SHALL BE: PAVEMENT-MARKING PAINT: MPI #32, ALKYD TRAFFIC-MARKING PAINT, COLOR: WHITE
3. ASPHALT TOP COURSE SHALL CURE FOR FOURTEEN (14) DAYS MINIMUM PRIOR TO PAINTING.

PAINTED STOP BAR

N.T.S.

ALPHA SITE SET 05-16-2025



UNBALANCED TEE OR PLUG – PLAN

TEE – PLAN

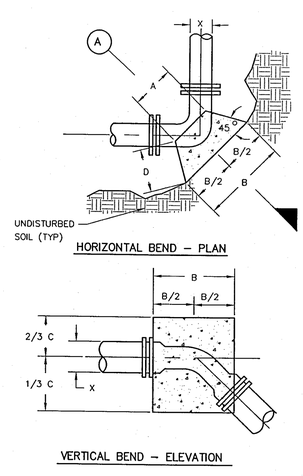
SHEET 1 OF 4

THRUST BLOCK

REV.	BY	DATE	DESCRIPTION

Morgan County

DATE	SCALE	STD. DETAIL NO.
10/31/03	N.T.S.	W01



HORIZONTAL BEND – PLAN

VERTICAL BEND – ELEVATION

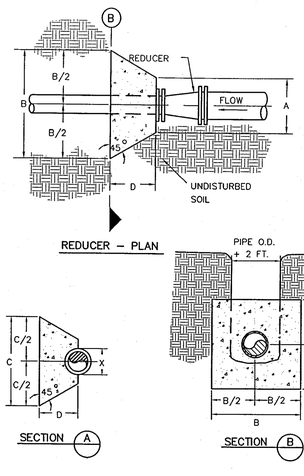
SHEET 2 OF 4

THRUST BLOCK

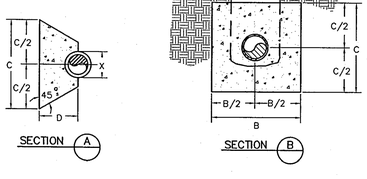
REV.	BY	DATE	DESCRIPTION

Morgan County

DATE	SCALE	STD. DETAIL NO.
10/31/03	N.T.S.	W01



REDUCER – PLAN



SHEET 3 OF 4

THRUST BLOCK

REV.	BY	DATE	DESCRIPTION

Morgan County

DATE	SCALE	STD. DETAIL NO.
10/31/03	N.T.S.	W01

Line Pressure = 200 PSI
Soil Pressure = 2000 PSF

Pipe Size X	A	B	C	D
90 DEGREE BEND				
* 12"	1'-4"	4'-6"	3'-6"	2'-3"
* 10"	1'-3"	3'-4"	3'-4"	1'-4"
8"	1'-0"	3'-4"	2'-3"	1'-0"
6"	0'-11"	2'-4"	2'-3"	1'-0"
45 DEGREE BEND				
* 12"	1'-4"	3'-9"	3'-6"	1'-8"
10"	1'-3"	4'-0"	2'-3"	1'-11"
8"	1'-0"	3'-4"	2'-3"	1'-3"
6"	0'-11"	2'-2"	2'-0"	1'-0"

Line Pressure = 200 PSI
Soil Pressure = 2000 PSF

Pipe Size Y	A	B	C	D
11 1/4 DEGREE BEND				
12"	1'-2"	2'-0"	2'-0"	1'-0"
10"	1'-0"	1'-8"	1'-8"	1'-0"
8"	0'-10"	1'-5"	1'-5"	1'-0"
6"	0'-9"	1'-2"	1'-2"	1'-0"
22 1/2 DEGREE BEND				
12"	1'-2"	3'-7"	2'-3"	1'-3"
10"	1'-0"	2'-7"	2'-3"	1'-0"
8"	0'-10"	1'-8"	2'-3"	1'-0"
6"	0'-9"	1'-9"	1'-3"	1'-0"

Line Pressure = 200 PSI
Soil Pressure = 2000 PSF

Pipe Size X	A	B	C	D
Unbalanced Tee & Plug				
* 12"	1'-0"	6'-0"	3'-6"	2'-4"
* 10"	1'-6"	4'-0"	3'-6"	1'-9"
8"	1'-4"	4'-4"	2'-3"	1'-8"
6"	1'-2"	2'-3"	2'-7"	1'-0"
Tee				
* 12"	1'-4"	6'-0"	3'-6"	2'-4"
* 10"	1'-3"	4'-0"	3'-6"	1'-9"
8"	1'-0"	4'-4"	2'-3"	1'-8"
6"	0'-11"	2'-3"	2'-7"	1'-3"

Line Pressure = 200 PSI
Soil Pressure = 2000 PSF

REDUCER SIZE	A	B	C	D
REDUCER				
12"X10"	1'-4"	4'-0"	3'-9"	0'-11"
12"X8"	1'-0"	4'-0"	4'-0"	2'-0"
12"X6"	1'-0"	4'-9"	4'-0"	2'-0"

NOTES :

1. BLOCKING SHALL BE TYPE II CONCRETE IN ACCORDANCE WITH ASTM C150; "SACKCRETE" WILL NOT BE ALLOWED.
2. * THE WATER LINE MUST BE LOWERED IN ORDER TO HAVE FIVE FEET (5') OF COVER AT THE BEND, TEE, REDUCER OR PLUG AT ALL LOCATIONS WHERE THESE FITTINGS MAY BE UTILIZED.
3. THE CONTRACTOR HAS THE OPTION TO USE RESTRAINED JOINTS IN LIEU OF OR IN ADDITION TO CONCRETE BLOCKING AS SPECIFIED IN SECTION 02660 OF THE SPECIFICATIONS.
4. BEARING AREAS ARE BASED ON 200 PSI INTERNAL TEST PRESSURE, 110 LB/FT SOIL DENSITY, AND A 2000 PSF SOIL BEARING PRESSURE. IF WEAK (LESS THAN 2000 PSF RESISTANCE) SOIL POCKETS ARE ENCOUNTERED, INCREASE THE BEARING AREAS SHOWN TO PREVENT MOVEMENT UNDER TEST OR OPERATING PRESSURES.

SHEET 4 OF 4

THRUST BLOCK

REV.	BY	DATE	DESCRIPTION

Morgan County

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10/31/03	N.T.S.	W01

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LAND SURVEYING
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www.georgiacivil.com

Professional Seal

GEORGIA REGISTERED NO. PE024855 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

MADISON METHODIST CHURCH
1091 CONFEDERATE RD
MADISON, GA 30650
ZONING: R1

DRAWING DATE:	01.22.25
DRAWN BY:	MCS
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
04-14-25	ADDRESS COMMENTS

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Sheet Title

SITE DETAILS

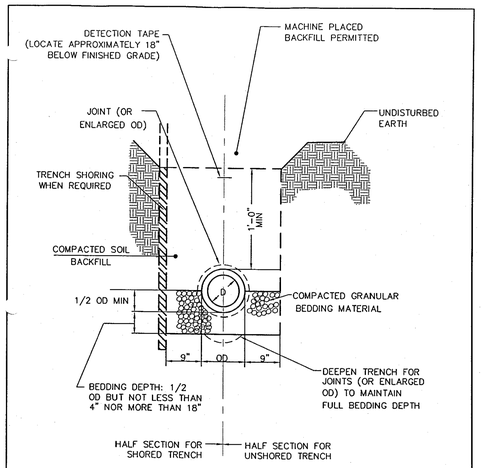
Sheet Number

C-8.0

24-HOUR CONTACT
XXXXXXXX
XXXXXXXXX

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Utilities/Services shown are for Contractors' convenience. Items are shown schematically and neither the site design professional nor the owner assumes any responsibility for variances in their actual location. This plan may not show and/or may incorrectly show utilities located on site. Contractor shall be responsible to secure and use the services of a private utility locator firm during the entire course of work and shall pay for said services. Contractor shall locate utilities prior to any disturbance (including field verifying location and depth of utilities that are to be saved and protected). Contractor shall notify the site design professional of any utility conflicts prior to installation of new utilities, grading, etc. The Contractor, at their expense, shall be responsible to repair, replace and/or relocate, as necessary, any utilities damaged, whether shown or not. Abandonment, relocation, etc. of utilities shall be coordinated with the respective utility company.

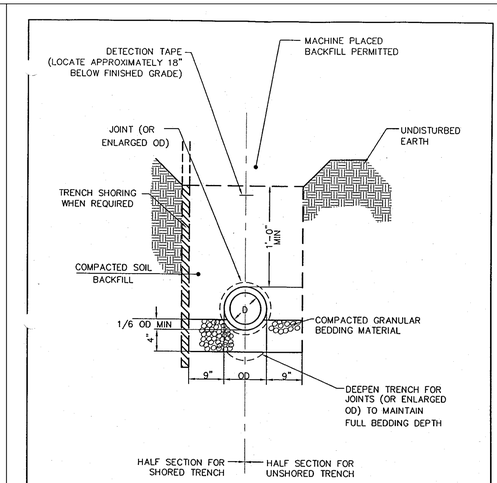


(WET TRENCH CONDITIONS)

CLASS 'B' BEDDING

Morgan County

REV.	BY	DATE	DESCRIPTION	DATE	SCALE	STD. DETAIL NO.
				10/31/03	N.T.S.	W16

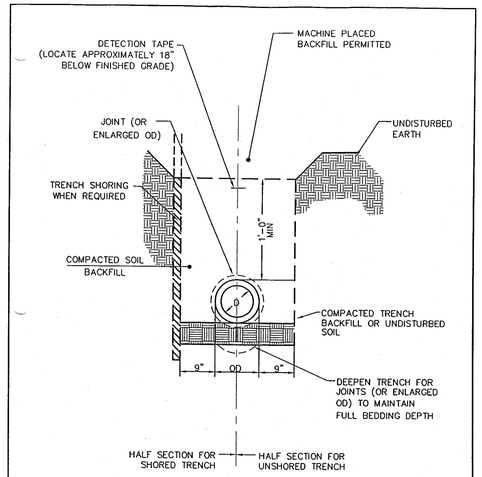


(WET TRENCH CONDITIONS)

CLASS 'C' BEDDING

Morgan County

REV.	BY	DATE	DESCRIPTION	DATE	SCALE	STD. DETAIL NO.
				10/31/03	N.T.S.	W17

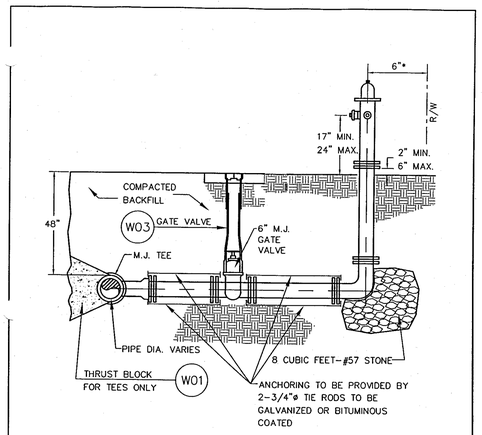


(NORMAL TRENCH CONDITIONS)

CLASS 'D' BEDDING

Morgan County

REV.	BY	DATE	DESCRIPTION	DATE	SCALE	STD. DETAIL NO.
				10/31/03	N.T.S.	W18

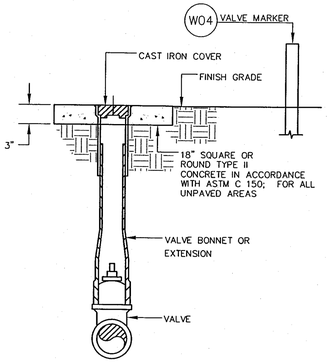


*MAY BE EXTENDED AT THE ENGINEERS DISCRETION TO AVOID EXISTING SITE CONSTRAINTS.

FIRE HYDRANT ASSEMBLY

Morgan County

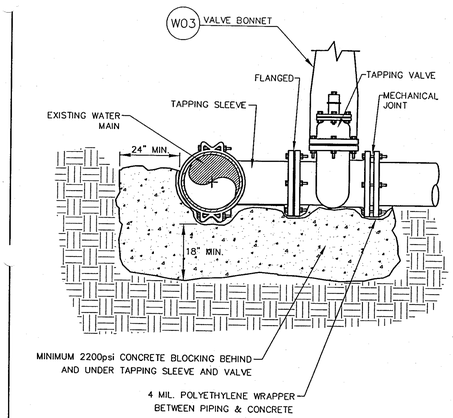
REV.	BY	DATE	DESCRIPTION	DATE	SCALE	STD. DETAIL NO.
				10/31/03	N.T.S.	W02



GATE VALVE

Morgan County

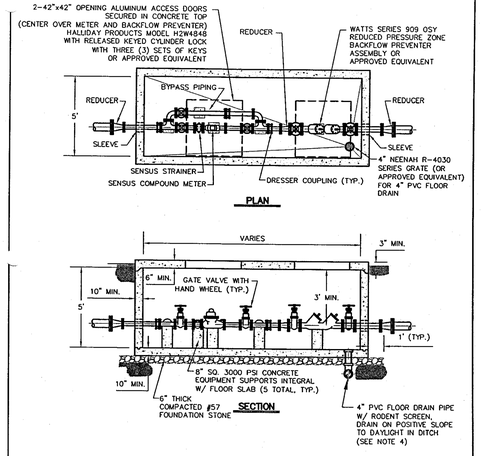
REV.	BY	DATE	DESCRIPTION	DATE	SCALE	STD. DETAIL NO.
				10/31/03	N.T.S.	W03



TAPPING SLEEVE & VALVE

Morgan County

REV.	BY	DATE	DESCRIPTION	DATE	SCALE	STD. DETAIL NO.
				10/31/03	N.T.S.	W05



SHEET 1 OF 2

METER/BACKFLOW PREVENTER & VAULT

Morgan County

REV.	BY	DATE	DESCRIPTION	DATE	SCALE	STD. DETAIL NO.
				10/31/03	N.T.S.	W27

NOTES:
1. ALL PIPING WITHIN 10' OF VAULT TO BE DIP EXCEPT FOR STEEL BYPASS PIPING.
2. VAULT SHALL BE REINFORCED CONCRETE (MIN. 4000 PSI) IN ACCORDANCE WITH ASTM C 858 AND ASTM C 913 FOR HS 20-44 WHEEL LOADING. SUBMIT SHOP DRAWINGS FOR VAULT STAMPED BY A GEORGIA REGISTERED PROFESSIONAL ENGINEER.
3. INSTALL ALUMINUM ACCESS DOORS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
4. IF INSUFFICIENT SLOPE AVAILABLE NEARBY, CONTRACTOR MAY INSTALL A MINIMUM OF 40 LF OF LEACHATE PIPE BEGINNING A MIN. 5' FROM VAULT. USE 4" PERFORATED PVC PIPE ENCASED WITH 3'x3' #57 STONE WRAPPED COMPLETELY WITH NONWOVEN GEOTEXTILE FABRIC (GSE NW10 OR APPROVED EQUIVALENT) CONNECTED TO 4" SOLID WALL DRAIN PIPE.

SHEET 2 OF 2

METER/BACKFLOW PREVENTER & VAULT

Morgan County

REV.	BY	DATE	DESCRIPTION	DATE	SCALE	STD. DETAIL NO.
				10/31/03	N.T.S.	W27

ALPHA SITE SET 05-16-2025

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Professional Seal

GEORGIA REGISTERED NO. PE021459 PROFESSIONAL ENGINEER JASON P. BROWN

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Sheet Title

SITE DETAILS

Sheet Number

C-8.1

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