RFP C24-01 GROVES ATHLETIC FIELD & FIELDHOUSE 100 PRISCILLA D. THOMAS WAY GARDEN CITY, GEORGIA





CIVIL

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LANDSCAPE

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В



PREPARED FOR: **SAVANNAH-CHATHAM COUNTY** PUBLIC SCHOOL SYSTEM

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RFP C24-01 GROVES ATHLETIC FIELD & FIELDHOUSE 100 PRISCILLA D. THOMAS WAY SAVANNAH, GA 31408

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CU505 WATER DETAILS

CM101 MARKING

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BID SET 05/12/2023 5201-192070

DRAWING SET LEGEND

SET A2 - CIVIL/LANDSCAPE SET B - K-12 BUILDING SET C - MULTI-MEDIA BUILDING (NIC-PREVIOUS PHASE) SET D2 - FIELDHOUSE/STADIUM SET E2 - ATHLETICS



	<u>GE</u> 1.	NERAL NOTES NOTES BELOW ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES.	UT	ILITIES
	2.	ALL WORK SHALL CONFORM WITH THESE DRAWINGS, PROJECT SPECIFICATIONS AND WITH ALL CURRENT APPLICABLE CODES AND THE LATEST REVISIONS OF THE FOLLOWING REFERENCE DOCUMENTS:	1.	PRIOR TO CO ALL UNDERGE
		 A. MOFFATT & NICHOL SPECIFICATIONS B. GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) ROAD AND BRIDGE 	2.	WHETHER OF
		SPECIFICATIONS C. GDOT ROAD AND BRIDGE STANDARDS & DETAILS D. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA (GREEN BOOK) E. GARDEN CITY ORDINANCE		OR ALL UNDE ETC.) ARE UN ELECTRONIC EXCAVATION
D -		IN CASE OF DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS, THE PLANS SHALL GOVERN.	3.	STATE LAW M UTILITIES CAL
	3.	THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE LICENSES AND KEEP COPIES OF THE SAME ON SITE DURING CONSTRUCTION.	4.	
	4.	CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE PLANS WITH THE EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCING DEMOLITION, FABRICATION, AND CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS.	5.	THE CONTRA TO ANY WATE
	5.	ALL INFORMATION SHOWN ON THESE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL REPORT IMMEDIATELY TO THE OWNER ANY CONDITIONS CONFLICTING WITH THE DRAWINGS. FIELD MODIFICATIONS TO THE DRAWINGS SHALL NOT BE MADE WITHOUT THE CONSENT OF THE OWNER.	6. 7.	THE CONTRADURING CONS
	6.	THE CONTRACTOR SHALL ENSURE THAT ALL PIPES, CATCH BASINS, MANHOLES, SWALES, ETC., WITHIN AND NEAR THE AREA OF WORK ARE KEPT FREE FROM MATERIAL THAT WOULD HAMPER THE PERFORMANCE OF THE DRAINAGE SYSTEMS. UPON COMPLETION OF CONSTRUCTION, REMOVE ACCUMULATED SEDIMENT, DISPOSE OF ALL UNSUITABLE OR EXCESS EXCAVATED MATERIALS AWAY FROM OWNER'S PROPERTY. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK.	<u>DE</u>	
	7.	CONTRACTOR SHALL DOUBLE WRAP PIPE JOINTS WITH A NON-WOVEN GEOTEXTILE OF MINIMUM 6 OZ./SY BY PLACING TWO	1.	THE GDOT RI
	8.	WHERE CROSSING ANY EXISTING SUBSTRUCTURES WITH NEW SUBSURFACE IMPROVEMENTS, THE CONTRACTOR SHALL	2.	ALL MATERIA
		TRENCH CAREFULLY TO LOCATE ALL ACTIVE AND IDLE SUBSTRUCTURES AT THESE CROSSINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL SUBSTRUCTURES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.	<u>cc</u>	
	9.	ALL AREAS OUTSIDE THE "PROJECT LIMITS" WHICH ARE DAMAGED BY THE CONTRACTOR, INCLUDING OFF-SITE STAGING AREAS AND HAUL ROADS, SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION. THE RESTORATION SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.	1. 2.	SUBMITTALS MATERIALS A
	10.	SAFE CONSTRUCTION EXCAVATION SLOPES AND SHORING ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD COMPLY WITH ALL OSHA AND OTHER APPLICABLE SAFETY REGULATIONS.	3.	EXISTING VEC
c -	11.	ALL EXCAVATED ASPHALT, CONCRETE, AND OTHER DELETERIOUS MATERIAL SHALL BE DISPOSED OF OFF OWNER PROPERTY, EXCEPT AS SPECIFICALLY APPROVED FOR RE-USE AS RECYCLED MATERIAL FOR THE WORK. ALL MATERIAL SHALL BE DISPOSED OF AS PER LOCAL REGULATIONS.	4.	THE CONTRA LANDSCAPINO RESTORATIO
	12.	OTHER THAN FOR EXCAVATED ASPHALT AND CONCRETE AS NOTED ABOVE, EXCAVATED SOIL MAY BE USED FOR BACK FILLING AND BORROW PROVIDED IT MEETS THE SPECIFICATIONS AND THE FOLLOWING REQUIREMENTS:	5.	ALL STRUCTU MAXIMUM DR' WHICH RUT E
		 A. MATERIAL DOES NOT CONTAIN DELETERIOUS AMOUNTS OF: ORGANIC CLAYS, SILTS OR PEATS MISCELLANEOUS DEBRIS, SUCH AS BUT NOT LIMITED TO, TIMBER, METAL 	6.	GROUNDWAT EXCAVATION THE ORDERL
		 STONES OR CONCRETE PIECES LARGER THAT THREE (3) INCHES IN SIZE, EXCEPT WHERE ALLOWED BY THE PLANS/SPECIFICATIONS 	7.	FINISHED SLC DITCHES AND
		 B. THE MATERIAL IS NOT FROZEN OR CONTAIN ICE. C. THE MATERIAL IS NOT OIL STAINED OR HAVE A NOTICEABLE "OIL ODOR". D. CAN BE COMPACTED IN ACCORDANCE WITH SPECIFICATIONS. 	8.	NO SEPARATI
		E. AS REQUIRED BY THE SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM QUALITY CONTROL TESTING OF BACK FILL AND BORROW MATERIAL. THE CONTRACTOR SHALL SUBMIT THE QUALIFICATIONS OF THE SOIL TESTING COMPANY WHICH WILL PERFORM THE QUALITY CONTROL TESTS. THE SOIL TESTING COMPANY SHALL HAVE A MINIMUM OF FIVE YEARS EXPERIENCE DOING RELATED WORK.	9.	THE CONTRA PAYMENT SH
	12.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE CONSTRUCTION SITE AND THE AREAS OF WORK WHILE PERFORMING THE WORK OF THIS CONTRACT. CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE	10.	THE ASPHALT
		CONSTRUCTION SITE ON A DAILY BASIS. NO BURNING OF DEBRIS SHALL BE PERMITTED, EXCEPT AS ALLOWED BY STATE AND/OR LOCAL REGULATIONS	11.	SIDEWALKS, E
	13.	THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE LOCAL, STATE AND FEDERAL ENVIRONMENTAL PROTECTION STANDARDS, LAWS AND REGULATIONS.		ESTABLISHED
	14.	ITEMS INDICATED TO BE REMOVED AND REINSTALLED SHALL BE REMOVED BY THE CONTRACTOR, STORED AND REINSTALLED WITHOUT DAMAGE. DAMAGED ITEMS SHALL BE REPLACED AT NO COST TO THE OWNER.	<u>M/</u>	
в –	15.	ALL APPLICABLE SAFETY REGULATIONS SHALL BE STRICTLY FOLLOWED. METHODS OF DEMOLITION, CONSTRUCTION, AND ERECTION OF STRUCTURAL MATERIAL ARE THE CONTRACTOR'S RESPONSIBILITY.	1.	ANY MAINTEN GENERAL NO RESPONSIBLE
	16.	ALL INGRESS AND EGRESS TO THE CONSTRUCTION SITE SHALL BE KEPT READILY ACCESSIBLE AND UNOBSTRUCTED AT ALL TIMES. CONSTRUCTION EQUIPMENT WILL NOT BE PERMITTED TO OBSTRUCT ROADWAYS AND/OR PASSAGEWAYS. ANY DEBRIS FALLING ON ROADWAYS AS A RESULT OF CONTRACTOR HAULING MATERIAL OR MOVING EQUIPMENT SHALL BE IMMEDIATELY CLEANED UP. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL LOAD LIMITS ON HAUL ROUTES.	2.	THE CONTRA SUCH AS "TRI THE CONTRA
	17.	THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL OF TEMPORARY CONSTRUCTION STRUCTURES AND SUPPORT AS REQUIRED, SUCH AS SHEETING FOR TRENCH EXCAVATIONS. SHOP DRAWINGS SHALL INCLUDE DESIGN CALCULATIONS AND ASSUMPTIONS. AND DRAWINGS SHOWING LOCATION. EXTENT AND CONSTRUCTION DETAILS OF SAID		TRAFFIC DEV CURRENT ED ETC.
		TEMPORARY STRUCTURES AND SUPPORTS PROPOSED BY THE CONTRACTOR. ALL TEMPORARY STRUCTURES SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF GEORGIA.	3.	THE CONTRA
	18.	ALL PRECAUTIONS SHALL BE TAKEN AS NECESSARY OR MAY BE REQUIRED, TO PERMANENTLY PREVENT CONTAMINATED WATER, GASOLINE OR ANY OTHER CONTAMINANT FROM ENTERING EXCAVATIONS MADE DURING THE CONTRACT WORK.		CONSTRUCTI LABOR AND M
	19.	DISPOSAL OF HAZARDOUS OR CONTAMINATED MATERIALS, GROUNDWATER OR SOIL ENCOUNTERED SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS.	4.	DRAINAGE ST
	20.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFORMANCE OF ALL WORK ON THE CONTRACT DOCUMENTS INCLUDING DEMOLITION AND REMOVALS AND INSTALLATION OF ALL MATERIALS IN COMPLIANCE WITH CODES, RULES AND REGULATIONS GOVERNING SAID WORK.		MINIMUM OF AND THE STA SHALL BE REI SEPARATE PA
	21.	ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AND GOVERNING STATE BUILDING CODE.	5.	ALL STANDAR PLANS. THE "I
	22.	THE CONTRACTOR SHALL KEEP AND MAINTAIN A SET OF PROJECT PLANS AND SPECIFICATIONS APPROVED FOR CONSTRUCTION ON THE SITE AT ALL TIMES.	6.	SIGN ERECTION
	23.	TREE PROTECTION IS REQUIRED FOR SPECIMEN TREES LOCATED WITIN THE PROJECT. CONTRACTOR SHALL INSTALL TREE PROTECTION PER CONSTRUCTION PLANS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORK IN THE VICINITY OF PROTECTED TREES.		SHALL BE WIT EDITION. NO S FROM THE OF
Α -	<u>co</u>	ORDINATION	7.	ALL STANDAI
	1. 2.	THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH OWNER. THE CONTRACTOR SHALL SUBMIT A SCHEDULE FOR CONSTRUCTION TO OWNER, IN ACCORDANCE WITH THE PROJECT	8A.	HORIZONTAL NORMAL EDG CLEARANCE F
	3.	SEE THE SPECIFICATIONS FOR COORDINATION REQUIREMENTS.	8B.	

GROVES K-12\600 CADD_ACTIVE_ SV/10797

NSTRUCTION OR EXCAVATION, THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY OF LOCATING ANY AND ROUND UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST OR CROSS THROUGH THE AREA OF CONSTRUCTION R NOT THEY ARE SHOWN ON THESE PLANS.

DES NOT GUARANTEE THE EXISTENCE, NONEXISTENCE, SIZE, TYPE, LOCATION, ALIGNMENT OR DEPTH OF ANY RGROUND UTILITIES OR OTHER FACILITIES. WHERE SURFACE FEATURES (MANHOLES, CATCH BASINS, VALVES, IAVAILABLE OR INCONCLUSIVE, INFORMATION SHOWN MAY BE FROM UTILITY OWNER'S RECORDS AND/OR CLINE TRACING, THE RELIABILITY OF WHICH IS UNCERTAIN. THE CONTRACTOR SHALL PERFORM WHATEVER TEST I OR OTHER REINVESTIGATION IS NECESSARY TO VERIFY LOCATIONS AND CLEARANCES.

ANDATES THE NOTIFICATION OF UTILITY OWNERS 48 HOURS IN ADVANCE OF EXCAVATION. FOR LOCATION OF ALL THE "UTILITY PROTECTION CENTER" AT 1-800-282-7411. 48 HOURS PRIOR TO LAND DISTURBANCE ACTIVITY.

R SHALL CONFORM TO THE "GEORGIA HIGH VOLTAGE SAFETY ACT" AND SHALL CONTACT THE NECESSARY PRIOR TO START OF CONSTRUCTION.

CTOR SHALL PROVIDE 3 BUSINESS DAYS ADVANCE WRITTEN NOTICE TO THE OWNER AND GARDEN CITY PRIOR ER, ELECTRICAL, OR OTHER UTILITY SYSTEM SHUTDOWNS.

CTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT THEIR SOLE EXPENSE, ANY EXISTING UTILITIES DAMAGED STRUCTION.

IT SHALL PURCHASE ALL PROPOSED ITEMS SHOWN INCLUDING THE WATER METERS.

CTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE, INCLUDING THOSE WITHIN IGHT OF WAY.

LS REMOVED UNDER DEMOLITION, NOT TO BE RELOCATED OR TO BE TURNED OVER TO THE OWNER, SHALL BE ROM THE SITE.

R SHALL NOT INITIATE ANY LAND DISTURBING ACTIVITY UNTIL AUTHORIZED TO PROCEED BY OWNER.

ON MATERIALS FOR THIS PROJECT SHALL BE PROVIDED TO THE OWNER FOR APPROVAL PRIOR TO ORDERING ND BEGINNING CONSTRUCTION.

GETATION SURROUNDING THE CONSTRUCTION AREA SHALL REMAIN IN A NATURAL STATE.

CTOR SHALL STRIP TOPSOIL AND ANY ORGANIC LADEN SOIL AND STORE FOR USE IN BACKFILLING AND IG FOR SITE RESTORATION. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ANY EXCESS SOIL AFTER ON OF THE SITE. NO ADDITIONAL PAYMENT FOR STORAGE OR REMOVAL OF TOPSOIL SHALL BE MADE.

JRAL FILLS SHALL BE PLACED IN 6-INCH LIFTS AND COMPACTED TO A MINIMUM 95% MODIFIED PROCTOR RY DENSITY (ASTM D-1557). SUB-GRADE SHALL BE PROOF-ROLLED PER THE DIRECTION OF THE OWNER. AREAS XCESSIVELY SHALL BE UNDERCUT AND REPLACED WITH SELECT GRANULAR MATERIAL.

FER FLOWING TOWARD OR INTO EXCAVATIONS SHALL BE CONTROLLED TO PREVENT SLOUGHING OF SLOPES AND WALLS, BOILS, UPLIFT AND HEAVE IN THE EXCAVATION AND TO ELIMINATE INTERFERENCE WITH Y PROGRESS OF CONSTRUCTION. NO SEPARATE PAYMENT WILL BE MADE FOR DEWATERING.

OPES SHALL BE GRADED TO ENSURE POSITIVE DRAINAGE AWAY FROM ALL PAVEMENTS AND TO EXISTING BASINS.

E PAYMENT SHALL BE MADE FOR REPAIR OF RILLS AND RE-ESTABLISHMENT OF FINAL GRASSING OF REPAIRED EQUIRED BY THE OWNER.

CTOR IS REQUIRED TO HAVE A WATER TRUCK AVAILABLE AT ALL TIMES TO CONTROL DUST. NO ADDITIONAL ALL BE MADE.

INDEX CONTAINED IN THE GDOT SPECIAL PROVISIONS DOES NOT APPLY TO THIS PROJECT.

PANSION JOINTS BETWEEN CONCRETE PAVEMENT AND ALL FIXED STRUCTURES. (I.E. MANHOLES, CLEANOUTS, ETC.)

NS WHERE NEW PAVEMENT IS TO BE PLACED ADJACENT TO EXISTING PAVEMENT, A JOINT SHALL BE) BY THE ENGINEER TO ENSURE PAVEMENT REMOVAL TO A NEAT LINE.

OF TRAFFIC

JANCE OF TRAFFIC ACTIVITIES SHALL BE IN ACCORDANCE WITH GDOT SPECIAL PROVISION SECTION 150 AND DTES PER GDOT STANDARD NO. 9100, AND CHATHAM COUNTY REQUIREMENTS AS APPLICABLE. CONTRACTOR IS E FOR ALL NECESSARY COORDINATION.

CTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE SIGNING AND ANY OTHER TRAFFIC CONTROL DEVICES, UCKS ENTERING HIGHWAY" SIGNS, NECESSARY TO PERFORM THE WORK. UPON COMPLETION OF THE WORK, CTOR SHALL IMMEDIATELY REMOVE ALL SUCH TEMPORARY DEVICES. SIGNAGE AND OTHER MAINTENANCE OF /ICES SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, ITION. NO ADDITIONAL PAVEMENT SHALL BE MADE FOR TRAFFIC CONTROL, REVISIONS TO TRAFFIC CONTROL,

CTOR SHALL PROTECT ALL POST-MOUNTED STREET NAME SIGNS WITHIN THE PROJECT LIMITS. IF A STREET IUST BE MOVED DURING THE COURSE OF CONSTRUCTION, IT MUST BE RESET AT THE END OF EACH WORK DAY. E SIGNS SHALL BE RELOCATED TO THE FINAL LOCATION OF THE STOP SIGN ON EACH DAY WHEN ON IS COMPLETE. IF DAMAGED DURING CONSTRUCTION, STREET NAME SIGNS SHALL BE REPLACED IN KIND. ALL IATERIALS REQUIRED TO SATISFY THIS REQUIREMENT.

TRUCTURES REQUIRING TEMPORARY COVERS TO ACCOMMODATE MAINTENANCE OF TRAFFIC DURING ION STAGING SHALL BE CAPPED WITH A REINFORCED CONCRETE TOP AS PER GDOT STANDARD 9031U. A 18 INCHES OF CLEARANCE SHALL BE MAINTAINED BETWEEN THE TOP ELEVATION OF THE CAPPED STRUCTURES GING SUBGRADE. AS STAGED CONSTRUCTION PROGRESSES THE TEMPORARY REINFORCED CONCRETE TOPS MOVED AND DISCARDED, AND THE STRUCTURES SHALL BE COMPLETED AS PER THE CONSTRUCTION PLANS. NO AYMENT SHALL BE MADE FOR REINFORCED CONCRETE TOPS, REMOVAL OR DISPOSAL.

RD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES". CURRENT EDITION, AND THE GEORGIA DEPARTMENT OF ATION SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.

ON STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD LOCATIONS WHERE NECESSARY, BUT THIN THE LIMITATIONS SET FORTH IN THE "THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", CURRENT SIGN SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FICE OF TRAFFIC SAFETY AND DESIGN.

RD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO 1 OF THE SIGN OR ASSEMBLY.

. CLEARANCE FOR STANDARD HIGHWAY SIGNS ON INTERSTATE HIGHWAYS SHALL BE 32 FEET FROM GE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), UNLESS SPECIFIED OTHERWISE IN THE HORIZONTAL FOR STANDARD HIGHWAY SIGNS ON RAMPS SHALL BE 2 FEET FROM THE NORMAL EDGE OF PAVED SHOULDER, GRADED SHOULDER WHEN PRESENT.

L CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF

THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).

- OF THE GUARD RAIL TO THE NEARER EDGE OF THE SIGN(S).
- DIAMETER, DRILLED OR PUNCHED, AS SHOWN ON THE SIGN PLATE DETAILS.
- SPECIFICATIONS REFER TO SIGN ASSEMBLY-TYPICAL FRAMING DETAILS.
- CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
- R5-1A, R5-1B).
- TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING.
- 16. A 1/2 INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.
- ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.

SURVEY NOTES

- VERTICAL DATUM ELEVATIONS SHOWN ARE IN FEET AND ARE BASED ON NAVD 88 DATUM.
- 2. HORIZONTAL DATUM GEORGIA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83.
- INC. JULY 2020.

8C. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS MOUNTED BEHIND GUARD RAIL SHALL BE 6 FEET FROM THE FACE

9. SINGLE PLATE, HORIZONTAL RECTANGULAR SIGNS OVER 48 INCHES IN WIDTH SHALL BE MOUNTED ON TWO POSTS WITH 2 EACH 2 INCH X 1/2 INCH X (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAPS. THE STRAPS SHALL BE FLUSH WITH THE BACK OF THE SIGN WITH ONE EACH ACROSS THE TOP AND BOTTOM OF THE SIGN. THE CENTERLINE OF EACH POST SHALL BE INSET 1/6TH OF THE SIGN WIDTH FROM THE EDGE OF THE SIGN. SIGN PLATE BOLT HOLES SHALL BE 3/8 INCH

10. EACH 42 OR 48 INCH WIDE X 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH X 1/2 INCH X (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED IN THE CENTER OF THE SIGN AND FLUSH WITH THE BACK OF THE SIGN.

11. SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP

12. TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE SIGN. EITHER CLASS 1 OR

13. TYPE 11 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3P, R5-1,

14. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.

15. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS. ALL REGULATORY SIGNS WITHIN THE SCHOOL ZONE SHALL HAVE

WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL 3/8 INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.

17. THE CONTRACTOR WILL, AS REQUESTED BY THE GDOT DISTRICT TRAFFIC OPERATIONS ENGINEER, BE REQUIRED TO REMOVE

3. THESE DRAWINGS ARE BASED ON A FIELD SURVEY PREPARED BY WOLVERTON AUGUST 2017, AND THE COLEMAN COMPANY



GENERAL NOTES							
С	CHECKED BY: CRZ						
D	DRAWN BY: FAP						
D	DATE: 05/30/2023						
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FUT	
G	
GABC	GRADED AGGREGATE BASE COURSE
GALV	GALVANIZED
GDOT	
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GR	GRADE
GSWCC	GEORGIA SOIL & WATER CONSERVATION COMMISSION
GW	INATURAL GAS VALVE
H	
HDPE	HIGH-DENSITY POLYETHYLENE
HORIZ	HORIZONTAL
	HEATING VENTILATION AND AIR CONDITIONING
HYD	HYDRANT
I	
INC	INCORPORATE
IE	
INV IT	
J	
JT	JOINT
К	
KSI	KIPS PER SQUARE INCH
L	LENGTH
LAT	LATITUDE / LATERAL
LB	POUND
LF	LINEAR FEET
LG	
LLC	
LONG	LONGITUDE
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MJ	MULTI JOINT
ML	
MP	
N	
NAD	NORTH AMERICAN DATUM
NAVD	
NIC	
NO	NUMBER
NOM	NOMINAL
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
	NATIONAL RESPONSE CENTER
0	
OC	ON CENTER COMMUNICATION
OD	
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
OUTBD	OUTBOUND
Р	
P	PROPOSED
PC	POINT OF CURVATURE
PCF	POUNDS PER CUBIC FOOT
PI	POINT OF INTERSECTION
PIN	
PIV PI	PLATE
PNL	PANEL
PP	POWER POLE
P/S	PRESTRESSED
PROP	
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENT

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ABBREVIATIONS	DESCRIPTIONS
PVC	POLYVINYL CHLORIDE/POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL INTERSECTION
R	
R	RATE OF GRADIENT CHANGE
R OR RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REINF	REINFORCING
REQD	REQUIRED
RH	RIGHT HAND
PT	RIGHT
3	
SCH	
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SF	SQUARE FEET
SPCC	SPILL PREVENTION, CONTROL, & COUNTERMEASURE
SPECS	SPECIFICATIONS
SQ	SQUARE
SR	STATE ROAD
SS	STAINLESS STEEL OR SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
	STEEL
SGD	
SY	SQUARE YARDS
T	
Τ/	TOP OF
Т	TANGENT
T&B	TOP & BOTTOM
TBD	TO BE DETERMINED
TBM	TEMPORARY BENCH MARK
TEL	TELEPHONE
TEMP	TEMPORARY
TFR	TRANSFORMER
ТОВ	TOP OF BANK
TOS	TOP OF STEEL
TRAVS	TRAVERSE
ТУР	ΤΥΡΙΟΔΙ
I VV	
UC	
UE	
UNG	UNDERGROUND NATURAL GAS
UON	UNLESS OTHERWISE NOTED
U.S.	UNITED STATES
V	
VERT	VERTICAL
VS	VERSUS
W	
W	WATER
W/	итн
\\/\/\/	WATER METER
VVV	
WWF	
X	
XFMR	TRANSFORMER
Y	
YI	NYOPLAST YARD INLET

SYMBOLS LIST				
SYMBOLS	DESCRIPTION			
&	AND			
%	PERCENT			
"	SECONDS OR INCH			
Ø	DIAMETER			

TYPICAL STRUCTURE IDENTIFICATION

STRUCTURE NUMBER -STRUCTURE ALIGNMENT NUMBER STRUCTURE TYPE -GI - 1-93— FR: 22.50 INV IN: 16.27 INV OUT: 16.27





THE VIEW AND SHEET NUMBERS MUST BE QUOTED TOGETHER - EITHER IN A CALLOUT FORMAT AS

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 – UNG –	
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EXISTING RAIL

EXISTING FENCE

EXISTING SIGN

POWER POLE

EXISTING SPOT ELEVATION

EXISTING CONTOURS

EXISTING DROP INLET

EXISTING FIRE HYDRANT

EXISTING SEWER MANHOLE

EXISTING STORM MANHOLE

EXISTING WATER/GAS/SEWER VALVE

EXISTING WATER METER

EXISTING BENCHMARK

EXISTING PAVEMENT EDGE

EXISTING UNDERGROUND COMMUNICATIONS
EXISTING DUCT BANK
EXISTING UNDERGROUND ELECTRICAL
EXISTING OVERHEAD ELECTRICAL
EXISTING WATER LINE
EXISTING STORM DRAINAGE PIPE
EXISTING SANITARY SEWER PIPE
EXISTING NATURAL GAS
EXISTING OVERHEAD CONDUIT
EXISTING LIGHTPOLE

EXISTING TREE

3

SHOWN ABOVE OR IN THE FORM;"VIEW NO./SHEET NO." (EG. A1/G-101).



PROPOSED GRATE INLET PROPOSED FIRE HYDRANT PROPOSED SEWER MANHOLE PROPOSED STORM MANHOLE PROPOSED CURB INLETS PROPOSED WATER METER/VAULT PROPOSED WATER FDC PROPOSED SEWER CLEANOUT GREASE SEPARATOR WATER/GAS/SEWER VALVE PROPOSED CONTOURS PROPOSED STORM DRAINAGE PIPE PROPOSED SANITARY SEWER PIPE PROPOSED CHAIN LINK FENCE PROPOSED DECORATIVE FENCE PROPOSED SILT FENCE PROPOSED WATER LINE PROPOSED DUCTILE IRON PIPE PROPOSED SIGN

PROPOSED JUNCTION BOX

Know what's below. Call before you dig.

PROPOSED DITCH CENTERLINE

PROPOSED HIGH MAST LIGHT POLE

MECHANICAL & PLUMBING: DULOHERY, WEEKS & GAGLIANO, INC. 321 WEST CONGRESS STREET SUITE 301 SAVANNAH, GEORGIA 31401 TEL. 912.695.2111 FAX 912.298.0206 WWW.LS3P.COM moffatt & nichol 2 EAST BRYAN ST., STE 501 • SAVANNAH, GA 31401 912-231-0044 •••••• No. 031068 PROFESSIONA VGINE RONAL ----05-30-2023 MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS COPYRIGHT 2018 ALL RIGHTS RESERVED PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD. **REVISIONS:** Date Description PROJECT: 5201-192070 DATE: 05/30/2023 DRAWN BY: FAP CHECKED BY: CRZ ABBREVIATIONS, LEGEND & SYMBOLS **C-003**



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		EROSION, SEDIMENTATION & POLL	UTION CONTRO	
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		Name & email of person filling out checklist: Craig B. Zuck	(czuck@moffatt	vichal com
	Diam Included	Name & email of person mining out checklist. Claig R. Zuck		inchor.com)
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	Page # Y/N	e envisedele Energien. Opdimentation and Ballution Constal Dian Checklist established by the Commission	Page # Y/N	20 Deceminitian and a
	CEOO1 Y I III	e applicable Erosion, Sedimentation and Politition Control Plan Checklist established by the Commission	CEOUZ Y	29 Description and c
	as	of January 1 of the year in which the land-disturbing activity was permitted.		portions of the site
	····	The completed Checklist must be submitted with the ESQPC Plan of the Plan will hot be reviewed)		
	ALL Y 2 Lev	vel II certification number issued by the Commission, signature and seal of the certified design professional.	CE003 Y	30 Provide complete
	(Si	gnature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be	CE003 Y	31 Provide complete
	re	viewed)	CE003 Y	32 Provide complete
	N/A N 3 Lin	nits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from		
	the	EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the Plan must	CE003 Y	33 Description of ana
	inc	clude at least 4 of the BMPs listed in Appendix 1 of this checklist. *	CE003 Y	34 Appendix B ration
	(A	copy of the written approval by EPD must be attached to the plan for the Plan to be reviewed.)	ALL Y	35 Delineate all sam
	CE003 Y 4 Th	e name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.		storm water is dis
	CE003 V 5 Pro	ovide the name, address, email address, and phone number of primary permittee.	CE002	26 A description of a
			CEOUZ Y	(1) initial and image
	CE002 Y 6 No	te total and disturbed acreage of the project or phase under construction.		(1) Initial sectiment
	CE002 Y 7 Pro	ovide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.		control BMPs, int
	ALL Y 8 Init	ial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.		all of the BMDs in
		scription of the nature of construction activity		
				27 Craphic scale and
	CE005 Y 10 Pro	ovide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.		Sr Graphic scale and
	CE004 Y 11 Ide	entify the project receiving waters and describe all sensitive adjacent areas including streams, lakes,	ALL Y	38 Existing and propo
	re	sidential areas, wetlands, marshlands, etc. which may be affected.		Map Scale
	CE002 Y 12 De	sign professional's certification statement and signature that the site was visited prior to development of the		1 inch = 100 ft o
с –	ES	S&PC Plan as stated on Part IV page 19 of the permit		larger scale
	65000 Y 12 De	cien nucleocien elle couffection etatement and ciencture that the neuroither's FSSDC Dian nucleiche fau an en nucleuriste		
	CEOUZ Y 13 De		N/A N	39 Use of alternative E
		d comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit.		conventional BMP
	CE005 Y 14 Cle	early note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the		and Water Conser
	init	ial sediment storage requirements and perimeter control BMPs within 7 days after installation."		www.gaswcc.org.
	in a	accordance with Part IV.A.5 page 25 of the permit *	N/A N	40 Use of alternative E
	CE002 Y 15 Cle	early note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot		for Erosion & Sedir
	un	disturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal	N/A N	41 Delineation of the a
	ma	rshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary		buffers required by
_	va	riances and permits."	N/A N	42 Delineation of on-si
	N/A N 16 Pro	ovide a description of any buffer encroachments and indicate whether a buffer variance is required.		12 Delineation and as
			REPORT Y	43 Delineation and act
	CE002 Y 17 Cie	any note the statement that Amendments/revisions to the ES&PC Plan which have a significant ellect on	REPORT Y	44 Provide hydrology
	BM	1Ps with a hydraulic component must be certified by the design professional." *	CE004 Y	45 An estimate of the r
				completed.
	CE004 V 18 Cle	early note the statement that "Waste materials shall not be discharged to waters of the State, except as	CE501 Y	46 Storm-drain pipe a
	aut	horized by a Section 404 permit " *		erosion. Identify/D
			REPORT Y	47 Soil series for the n
	CE002 Y 19 Cle	early note statement that "I he escape of sediment from the site shall be prevented by the installation of		10 The lineite of dist wh
в Т	er	osion and sediment control measures and practices prior to land disturbing activities."		
	CE002 Y 20 Cle	early note statement that "Erosion control measures will be maintained at all times. If full implementation of the	CE003 Y	49 Provide a minimum
	ap	proved Plan does not provide for effective erosion control, additional erosion and sediment control measures		retrofitted detention
	sh	all be implemented to control or treat the sediment source."		storage volume mu
	CE002 Y 21 Cle	early note the statement "Any disturbed area left exposed for a period greater than 14 days shall be		site has been achie
	sta	bilized with mulch or temporary seeding."		sediment basin is r
	N/A N 22 An	v construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile		also bo givon . Wo
		stream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply		storage design pro
	wi	the Part III. C. of the permit Include the completed Appendix 1 listing all the BMPs that will be used for those		from sediment basir
	are	eas of the site which discharge to the Impaired Stream Segment *		from the surface un
		TMDL lumplementation Dian for addiment has been finalized for the lumpized Stream Segment (identified in		a written justification
_		TMDL Implementation Plan for sediment has been infailed for the implaned Steam Segment (identified in	CE001 V	50 Location of Best Ma
	ler	m 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific		Erosion and Sedim
	cor	iulions or requirements included in the TIVIDL Implementation Plan.		legend
	CE004 Y 24 BM	IPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout		51 Provide detailed d
	of	the drum at the construction site is prohibited. *	GE501-4 Y	forth in the Manual
	CE004 Y 25 Pro	ovide BMPs for the remediation of all petroleum spills and leaks.		
	CE004 V 26 Da	scription of the measures that will be installed during the construction process to control pollutants in storm	CE002 Y	52 Provide vegetative
		ater that will occur after construction operations have been completed.		dates and seeding,
				or the year that see
	CE004 Y 27 De	scription of practices to provide cover for building materials and building products on site. *		* If using this checklist
Α -	CE004 Y 28 De	scription of the practices that will be used to reduce the pollutants in storm water discharges. $$ *		but within 200 ft of a per

C:\Users\aprilmu 1/27/2020 1:19:16 PM

TO BE SHOWN ON ES&PC PLAN

- chart or timeline of the intended sequence of major activities which disturb soils for the major e (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, ities, utility activities, temporary and final stabilization).
- e requirements of inspections and record keeping by the primary permittee. st
- e requirements of sampling frequency and reporting of sampling results. *
- e details for retention of records as per Part IV.F. of the permit $\,\,^*$
- alytical methods to be used to collect and analyze the samples from each location. *
- nale for NTU values at all outfall sampling points where applicable. *
- pling locations, perennial and intermittent streams and other water bodies into which scharged. *
- appropriate controls and measures that will be implemented at the construction site including: nt storage requirements and perimeter control BMPs, (2) intermediate grading and drainage inal BMPs. For construction sites where there will be no mass grading and the initial perimeter termediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine nto a single phase. *

North arrow.

osed contour lines with contour lines drawn at an interval in accordance with the following:

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

- BMPs whose performance has been documented to be equivalent to or superior to Ps as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil vation Commission). Please refer to the Alternative BMP Guidance Document found at
- BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual iment Control in Georgia 2016 Edition. *
- applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional y the Local Issuing Authority. Clearly note and delineate all areas of impact.
- site wetlands and all state waters located on and within 200 feet of the project site.
- creage of contributing drainage basins on the project site.
- / study and maps of drainage basins for both the pre- and post-developed conditions. st
- runoff coefficient or peak discharge flow of the site prior to and after construction activities are
- and weir velocities with appropriate outlet protection to accommodate discharges without Delineate all storm water discharge points.
- project site and their delineation.
- bance for each phase of construction.
- n of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, n pond, and/or excavated inlet sediment traps for each common drainage location. Sediment nust be in place prior to and during all land disturbance activities until final stabilization of the eved. A written justification explaining the decision to use equivalent controls when a not attainable must be included in the Plan for each common drainage location in which a not provided. A written justification as to why 67 cubic yards of storage is not attainable must orksheets from the Manual included for structural BMPs and all calculations used by the pfessional to obtain the required sediment when using equivalent controls. When discharging ins and impoundments, permittees are required to utilize outlet structures that withdraw water inless infeasible. If outlet structures that withdraw water from the surface are not feasible, n explaining this decision must be included in the Plan.
- anagement Practices that are consistent with and no less stringent than the Manual for nent Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with
- rawings for all structural practices. Specifications must, at a minimum, meet the guidelines set I for Erosion and Sediment Control in Georgia.
- e plan, noting all temporary and permanent vegetative practices. Include species, planting , fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time eding will take place and for the appropriate geographic region of Georgia.
- t for a project that is less than 1 acre and not part of a common development erennial stream, the * checklist items would be N/A.

Effective January 1, 2020

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

GEORGIA **UNIFORM CODING SYSTEM**

DESCRIPTION

J	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
CO (LABEL)	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
	A temporary stone barrier constructed at storm drain inlets and pond outlets.
(LABEL)	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
(INDICATE TYPE)	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
	An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
St	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
DENOTE TREE CENTERS)	To protect desirable trees from injury during construction activity.

VEGETATIVE PRACTICES

MAP SYMBOL	DESCRIPTION
Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.

THERE ARE NO WETLANDS ON THE SITE. THERE ARE NO STATE WATERS ON OR WITHIN 200' OF THE SITE.

PROJECT REFERENCE

CRAIG R. ZUCK, PE **MOFFATT & NICHOL** 2 EAST BRYAN STREET, SUITE 501 SAVANNAH, GA 31401 PHONE: (912) 231-0044

]	SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM
	SCCPSS
	RFP C24-01
	FIELD & FIELDHOUSE
	PROJECT CONSULTANTS: <u>LANDSCAPE ARCHITECT:</u> CLH DESIGN, P.A. <u>CIVIL ENGINEERS:</u> MOFFATT & NICHOL CHA CONSULTING INC
-	<u>STRUCTURAL ENGINEER:</u> THARPE ENGINEERING GROUP, LLC <u>MECHANICAL & PLUMBING:</u> DULOHERY, WEEKS & GAGLIANO, INC.
	LSJP
	321 WEST CONGRESS STREET SUITE 301 SAVANNAH, GEORGIA 31401 TEL. 912.695.2111 FAX 912.298.0206 WWW.LS3P.COM
	moffatt & nichoi 2 EAST BRYAN ST., STE 501 SAVANNAH, GA 31401 912-231-0044
	No. 031068 PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFEEP 10 RONALD
N I I	05-30-2023 MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS COPYRIGHT 2018 ALL RIGHTS RESERVED PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION
N	REVISIONS:
	PROJECT: 5201-102070
	DATE: 05/30/2023 DRAWN BY: FAP CHECKED BY: CRZ
	ES&PC GENERAL NOTES
	CE001

_		I
	EROSION AND SEDIMENT CONTROL NOTES	LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
	DESIGN PROFESSIONAL'S CERTIFICATION	PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED
	(1) "I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES	THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CO ACTIVITY.
	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 LAND DISTURBING ACTIVITY WAS PERMITTED. THE PLAN PROVIDES FOR THE SAMPLING OF THE STORM WATER OUTFALLS. 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."	 THE CONSTRUCTION EXIT, CONSISTING OF A MINIMUM PAD SIZE OF 20 FT BY 50 FT WITH A MINIMUM OF SHALL BE PLACED AS SHOWN ON THE PLAN. THE STONE SIZE SHOULD CONSIST OF COURSE AGGREGA 3-1/2" IN DIAMETER AND OVERLAID ON A GEOTEXTILE UNDERLINER. THE GEOTEXTILE UNDERLINER SHA REQUIREMENTS OF AASHTO M288-96, SECTION 7.3 SEPARATION REQUIREMENTS. (ROCK INSTALLATION DEMOLITION)
D -	(2) "I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE	2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER ERO- STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE INITIAL EROSION CON
	(3) "I CERTIFY UNDER THE PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION	3. TYPE "NS" & "S" SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA IF CO INSTALLATION. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION GEORGIA, TABLE 6-20.2. THE SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHOULD BE REMOVED W ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSP ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
	SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS." (4) "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (a) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS	AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PI PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN C THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTR EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTION.
	TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR (b) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STEAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL; JUDGMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL	AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WI CLEARING AND GRUBBING ACTIVITIES.
	NPDES PERMIT NO. GAR 1000001, THAT THE INCREASE IN THE TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER."	THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTAINTIAL SEDIMENT STORAGE REQUIREMENTS, PERIMETER CONTROL BMPS, AND SEDIMENT ACCORDANCE WITH PART IV.A.5. WITHIN 7 DAYS AFTER INSTALLATION.
	GSWCC CERTIFICATION NO. 0000012478	NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE.
	GENERAL EROSION CONTROL NOTES	ALL SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE FOR THE DEPA TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1983 EDITION.
	 ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. 	ALL ITEMS IN THIS SECTION OF THE SPECIFICATIONS SHALL MEET THE REQUIREMENTS AS SET FORTH IN S AND 164 OF THE GDOT STANDARD SPECIFICATIONS, FOR ROADS AND BRIDGES.
	2. AFTER CONSTRUCTION, EROSION AND SEDIMENTATION WILL BE MANAGED BY PAVEMENT AND GRASSING.	MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND E
	 MINIMIZING WIND EROSION AND CONTROLLING DUST WILL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS: 	ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATI
	A. COVERING 30% OR MORE OF THE SOIL SURFACE WITH NON-ERODIBLE MATERIAL.	SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEV MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF OF THE CAPACITY OF THE ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
	B. ROUGHENING THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO THE PREVAILING WIND.	GRADING/INTERMEDIATE PHASE EROSION CONTROL NOTES
	C. FREQUENT WATERING OF EXCAVATION AND FILL AREAS.	DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFOR
	THIS PROJECT CONSISTS OF PAVED, AND GRASSED AREAS.	DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.
	THE TOTAL SITE AREA : 48.0 ACRES THE TOTAL DISTURBED AREA: 44.9 ACRES	SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND E STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
_	MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.	EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPRO DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERN CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREA STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CON
	FUNCTIONING PROPERLY.	THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY IMPROV
	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 AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.	MADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF SLOPES UNDER THESE BARRIERS SHALL BE AS SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REUSED
	FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.	SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED
	THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.	CUT AND FILL SLOPES ARE NOT TO EXCEED "2H:1V" THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE PRELIMINARY GRAD
в –	EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.	 TYPE "S" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS. SEE SEPARATE I
	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.	 INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY CONSTRUCTED/MODIFIED. SEE PLAN VIEW FOR SPECIFIC TYPE AND SEPARATE DETAILS FOR ADDITION
	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	TYPE OF INLET PROTECTION SPECIFIED. 3. ALL DRAINAGE SWALES SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACI
	SOURCE.	4. ALL GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEV
	ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.	MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND D ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSINC
	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	FINAL PHASE EROSION CONTROL NOTES THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CO
	WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS. AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A	CONSTRUCTION. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND [
	INITIAL PHASE FROSION CONTROL NOTES	STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS LEFT MULCHED AFTER 30 [
	PRIOR TO THE LAND DISTURBING CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH	STABILIZED WITH TEMPORARY GRASSING.
	THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN	BASE, AND PAVEMENT HAS BEEN INSTALLED, ALL INLET SEDIMENT TRAPS SHALL BE REMOVED.
	SMALL QUANTITIES.	ACHIEVED BEYOND THE EDGE OF PAVEMENT.
Α -	PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES RIBBONS OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL	MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE I DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
	AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO	UPON COMPLETION OF THE PROJECT AND RECEIPT OF CERTIFICATE OF OCCUPANCY, THE CONTRACTOR S TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.

ED AT EACH POINT OF

CONSTRUCTION

F 6" THICK STONE, ATE BETWEEN 1-1/2" & HALL MEET THE N TO COINCIDE WITH

OSION CONTROL AND NTROL PLAN.

CONDITIONS WARRANT ON CONTROL IN N REQUESTED BY THE WHEN PECTED DAILY FOR

AN INSPECTION BY PROJECT DESIGN CONDITIONS EXIST IN RUCT ANY ADDITIONAL

VITH CONSTRUCTION,

TALLATION OF THE ENT BASINS IN

PARTMENT OF

SECTION 161, 162, 163,

DISTURBANCE.

TION.

VICE IS TO BE THE DEVICE.

E TO ENSURE THAT ORE LIMITED

DISPOSED OF AND

S. THE LOCATION OF OVED PLANS IF RNS. IT IS THE EATED AT VARIOUS INSTRUCTION SHALL

VEMENTS ARE BEING

R CONSTRUCTION. O AFTER PERMANENT RIALS IN THE BARRIER :D.

DING PHASE OF

DETAILS FOR

ARE ONAL INFORMATION ON

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ONTROL PHASE OF

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DAYS SHALL BE

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N AS FINAL GRADE IS

VICE IS TO BE DEVICE. ADDITIONAL

SHALL REMOVE ALL

CONSTRUCTION SCHEDULE																							
ACTIVITY	MO		1	M	ON	TH	2	M	ON	ТН	3	Μ	ON	TH	4	Μ	ON	TH	5	Μ	ON	TH	6
CLEARING AND GRUBBING																							
CONSTRUCTION EXIT																							
SEDIMENT BARRIER																							
DUST CONTROL MULCHING																							
NLET SEDIMENT TRAPS																							
CHECK DAM																							
RETROFIT																							
OUTLET PROTECTION																							
MAINTENANCE OF EROSION, SEDIMENTATION & POLLUTION CONTROL (ES&PC) BMPs'																							
DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING)																							
DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION)																							
GRADING																							
PAVING																							
BUILDING CONSTRUCTION																							
REMOVE TEMPORARY ES&PC BMPs'																							

1

SEEDING RATES FOR TEM

		RATE PE			RATE PER ACRE					
MONTH	TEMPORARY COVER	SEEDED ALONE	ADDED TO MIX	PERMANENT COVER	SEEDED ALONE	ADDED TO MIX				
JANUARY	RYEGRASS	40 LBS	-	UNHULLED BERMUDA	10 LBS	6 LBS				
	RYE	3 BU	0.5 BU	SERLCEA LESPEDEZA (1)	75 LBS	-				
FEBRUARY	ANNUAL LESPEDEZA	40 LBS	10 LBS	UNHULLED BERMUDA	10 LBS	6 LBS				
	RYEGRASS	40 LBS	-	SERLCEA LESPEDEZA (1)	75 LBS	-				
	RYE	3 BU	0.5 BU							
MARCH	WEEPING LOVEGRASS	4 LBS	2 LBS	PENSACOLA BAHIA	60 LBS	30 LBS				
	ANNUAL LESPEDEZA	40 LBS	10 LBS	HULLED BERMUDA	10 LBS	6 LBS				
				SERLCEA LESPEDEZA (2)	60 LBS	-				
APRIL	WEEPING LOVEGRASS	4 LBS	2 LBS	PENSACOLA BAHIA	60 LBS	30 LBS				
	SUDON GRASS	60 LBS	-	WEEPING LOVEGRASS	6 LBS	6 LBS				
	BROWN TOP MILLET	40 LBS	10 LBS	HULLED BERMUDA	10 LBS	6 LBS				
MAY	WEEPING LOVEGRASS	4LBS	2 LBS	PENSACOLA BAHIA	60 LBS	30 LBS				
	SUDON GRASS	60 LBS	-	WEEPING LOVEGRASS	6 LBS	6 LBS				
	BROWN TOP MILLET	40 LBS	10 LBS	HULLED BERMUDA	10 LBS	6 LBS				
	PEARL MILLET	50 LBS	-	SERLCEA LESPEDEZA (2)	60 LBS	-				
JUNE	PEARL MILLET	50 LBS	-	PENSACOLA BAHIA	60 LBS	30 LBS				
	SUDON GRASS	60 LBS	-	HULLED BERMUDA	10 LBS	6 LBS				
	BROWN TOP MILLET	40 LBS	10 LBS							
JULY	PEARL MILLET	50 LBS	-	PENSACOLA BAHIA	60 LBS	30 LBS				
	SUDON GRASS	60 LBS	-							
	BROWN TOP MILLET	40 LBS	10 LBS							
AUGUST	PEARL MILLET	50 LBS	-	PENSACOLA BAHIA	60 LBS	30 LBS				
	RYE	3 BU	0.5 BU							
SEPTEMBER	RYEGRASS	40 LBS	-	SERLCEA LESPEDEZA (1)	75 LBS	-				
	OATS	4 BU	1 BU							
	WHEAT	3 BU	0.5 BU							
OCTOBER	WHEAT	3 BU	0.5 BU	SERLCEA LESPEDEZA (1)	75 LBS	-				
	RYEGRASS	40 LBS	-							
	RYE	3 BU	0.5 BU							
	BARLEY	3 BU	0.5 BU							
	OATS	4 BU	1 BU							
NOVEMBER	SAME AS OCTOBER			UNHULLED BERMUDA	10 LBS	6 LBS				
DECEMBER	SAME AS OCTOBER			UNHULLED BERMUDA	10 LBS	6 LBS				

IPORARY	& PERM	ANENT	COVER

PROJECT REFERENCE

CRAIG R. ZUCK, PE MOFFATT & NICHOL 2 EAST BRYAN STREET, SUITE 501 SAVANNAH, GA 31401 PHONE: (912) 231-0044

GSWCC CERTIFICATION				
NO. 0000012478				
Ciary Rub.				
GSWCC LEV€L I DESIGNER:				
CRAIG R ZUCK				

T COVERAGE AN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OF NATURAL CGS, ENVIRONMENTAL PROTECTION DIVISION (EPD), GENERAL NPDES PERMIT NO. GAR 100001 FOR AUTHORIZATION TO REG UNDER THE NATIONAL POLUTIANT DISCHARGE SIMUNATION SYSTEM (NPDES), STORMWATER DISCHARGES THE WITH CONSTRUCTION ACTIVITY FOR INFRASTRUCTURE. PRIZED DISCHARGES DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT WILL RESULT IN LAND DISTURBANCE IAL TO OR GREATER THAN ONE ACRE PART IC.1.4.c DISCHARGES COVERED BY THIS PERMIT. SHALL BE COMPOSED ENTIRELY OF STORMWATER EXCEPT AS PROVIDED IN RT LC.2 AND PART III.A.2 OF THE PERMIT. PART III.A.1 THORIZED MIXED STORMWATER DISCHARGES: PART I.C.2 THE INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY. 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STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT OR NDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES PERMIT. THORIZED NON-STORMWATER DISCHARGES: PART III.A.2 TIRE FIGHTING ACTIVITIES TIRE HYDRANT FLUSHING POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING RRIGATION DRAINAGE AIR CONDITIONING CONDENSATE SPRINGS UNCONTAMINATED GROUND WATER "OUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS TIONS ON COVERAGE: PART I.C.3 E FOLLOWING STORMWATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT: STORMWATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATES FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORMWATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED NPART III.A.2 OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.T (NON-STORMWATER DISCHARGES) OF THIS PERMIT. STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES NDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AND WHICH ARE INCOMPLIANCE WITH PART IV.D.T (NON-STORMWATER DISCHARGES) OF THIS PERMIT.	SAMPLING B. IN A OUTFALL, T DURING NC BEEN COMI REPRESEN C. AT DISCHARGE CORRECTIV BE TAKEN F 0.5 INCH DU EVENT INSF D. WH THERE WAS IN THE INSF PERMITTEE E. EXI PERMIT, TH EXISTING C CONDUCT A *NOTE THA SAMPLES F OR WEEK.	LOCATION; ADDITION TO (HE FIRST RAII PRMAL BUSINE PLETED, BUT F TATIVE SAMPL THE TIME OF S TO A RECE /E ACTION SHA FROM DISCHAR PECTIONS DET IERE SAMPLIN S NO DISCHAR PECTION REPO C OF ANY SUBS STING CONST AT HAVE MET ONSTRUCTION	A) ABOVE, FO N EVENT THA SS HOURS A PRIOR TO SU ING LOCATIO SAMPLING PALL IVING WATEF ALL BE DEFIN RGES FROM L BUSINESS FERMINE THA IG PURSUAN RGE), THE PE DRT OF WHY SEQUENT SA	OR EACH ARE AT REACHES (AS DEFINED IN BMITTAL OF A ON, WHICHEV ERFORMED P R OR FROM AN NED AND IMPL THAT AREA O HOURS* UNTI AT BMPs ARE I T TO (A), (B), (RMITTEE, IN A SAMPLING OBLIC	A OF THE SITE OR EXCEEDS O I THIS PERMIT A NOT, IN THE I ER COMES FIF URSUANT TO O N OUTFALL AR EMENTED WIT OF THE SITE FO L THE SELECT PROPERLY DE OR (C) ABOVE ACCORDANCE	E THAT DISCHAF D.5 INCH WITH A EITHER 90 DAYS DRAINAGE AREA RST; (A) AND (B) ABO' E NOT PROPERI THIN TWO (2) BU OR EACH SUBSE ED TURBIDITY S SIGNED, INSTAL WITH PART IV.D	RGES TO A REC STORM WATER S AFTER ALL MA A OF THE LOCA VE, IF BMPS IN A LY DESIGNED, IN ISINESS DAYS, A QUENT RAIN EN STANDARD IS A LED AND MAIN	EIVING WATER DISCHARGE TH ASS GRADING C TION SELECTED ANY AREA OF T NSTALLED AND AND TURBIDITY (ENT THAT REA FTAINED, OR UN TAINED;	OR FROM AI HAT OCCUR: PERATIONS AS THE HE SITE THA MAINTAINEI SAMPLES S CHES OR EX ITIL POST-S
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Ince from the sources including water line flushing Potable water sources including water line flushing RRIGATION DRAINAGE AIR CONDITIONING CONDENSATE SPRINGS JNCONTAMINATED GROUND WATER FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS TIONS ON COVERAGE: PART I.C.3 E FOLLOWING STORMWATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT: STORMWATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATES FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORMWATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED N PART III.A.2 OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.T (NON-STORMWATER DISCHARGES) OF THIS PERMIT. STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES NDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING NDISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES NDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING NDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING	C. AT DISCHARGE CORRECTIV BE TAKEN F 0.5 INCH DU EVENT INSF D. WH THERE WAS IN THE INSF PERMITTEE E. EXI PERMIT, TH EXISTING C CONDUCT A *NOTE THA SAMPLES F OR WEEK.	THE TIME OF ES TO A RECE VE ACTION SH ROM DISCHAI JRING NORMA PECTIONS DET IERE SAMPLIN S NO DISCHAR PECTION REPO OF ANY SUBS STING CONST AT HAVE MET ONSTRUCTION	SAMPLING PI IVING WATEF ALL BE DEFIN RGES FROM L BUSINESS FERMINE THA IG PURSUAN RGE), THE PE DRT OF WHY SEQUENT SA	ERFORMED P R OR FROM AN NED AND IMPL THAT AREA O HOURS* UNTI AT BMPs ARE I T TO (A), (B), (RMITTEE, IN A SAMPLING WA MPLING OBLIG	URSUANT TO NOUTFALL AR EMENTED WIT F THE SITE FO L THE SELECT PROPERLY DE OR (C) ABOVE ACCORDANCE AS NOT PERFO	(A) AND (B) ABO E NOT PROPERI THIN TWO (2) BU OR EACH SUBSE ED TURBIDITY S SIGNED, INSTAL IS REQUIRED BU WITH PART IV.D	VE, IF BMPS IN A LY DESIGNED, I ISINESS DAYS, A QUENT RAIN EN STANDARD IS A LLED AND MAIN	ANY AREA OF T NSTALLED AND AND TURBIDITY (ENT THAT REA ITAINED, OR UN TAINED;	HE SITE THA MAINTAINEI SAMPLES S CHES OR EX ITIL POST-S
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CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORMWATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED N PART III.A.2 OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.T (NON-STORMWATER DISCHARGES) OF THIS PERMIT. STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES NDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING	PERMIT, TH EXISTING C CONDUCT / *NOTE THA SAMPLES F OR WEEK.	AT HAVE MET ONSTRUCTIO		TIVITIES, IE, 1	GATIONS UND	ER (A.), (B.) OR (RE OCCURRING	C.) ABOVE; AND	E THE EFFECTI	VE DATE OF
DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORMWATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED N PART III.A.2 OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.T (NON-STORMWATER DISCHARGES) OF THIS PERMIT. STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES NDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING	*NOTE THA SAMPLES F OR WEEK.		THE SAMPLI N ACTIVITIES	NG REQUIRE THAT HAVE N HER THAN AS	D BY (A.) ABOV MET THE SAMP	/E SHALL SAMPL PLING REQUIREI ((C.) ABOVE	E IN THE ACCO D BY (B.) ABOVE	RDANCE WITH SHALL NOT BE	(B.). THOSE REQUIRED
STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES NDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING	OR WEEK.		TEE MAY CH	OOSE TO MEE	ET THE REQUI	REMENTS OF (A) AND (B) ABOV	E BY COLLECTI	
PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATION FOR SUCH DISCHARGES.	NTU TABLE	APPENDIX B:		AT REACHES		J.5 INCH AND AL	LOWSFOR SAN		
STORMWATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS DETERMINED TO BE OR MAY REASONABLY BE EXPECTED TO BE CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.	SITE SIZE ACRES	, 0 - 4 99	5-9 99	SURFACE	WATER DRAIN	AGE AREA, SQU	100-249 99	250-499 99	
R QUALITY COMPLIANCE: PART I.C.4	1.00-10	75	150	200	400	750	750	750	750
CHARGES AUTHORIZED BY THIS PERMIT SHALL CAUSE VIOLATIONS OF GEORGIA'S IN STREAM WATER QUALITY ARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6-03.	10.01-25 25.01-50	50	100 50	100	200 100	300 200	300	750 750	750 750
	50.01-100 100.01+	50 50	50 50	50 50	100 50	100 50	150 100	300 200	600 100
/IPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN DANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST DURES HAVE BEEN APPROVED), THE GUIDANCE DOCUMENT TITLED "NPDES STORMWATER SAMPLING GUIDANCE ENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.	<u>REPORTII</u>	NG: PART IN	<u>V.E</u>						
MPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.	1. THE AF PART II DURING	PLICABLE PEI .C. BY THE FIF WHICH SAMI	RMITEES ARE TEENTH DAN PLES ARE TA	E REQUIRED 1 Y OF THE MON KEN IN ACCO	FO SUBMIT THI NTH FOLLOWIN RDANCE WITH	E SAMPLING RE NG THE REPORT I THIS PERMIT. S	SULTS TO THE ING PERIOD. RE SAMPLING RESU	EPD AT THE AD EPORTING PER JLTS SHALL BE	DRESS SHO ODS ARE M IN A CLEARI
ED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.	LEGIBL RESUL WATER	E FORMAT. UF TS ON A MORE	PON WRITTEI E FREQUENT	N NOTIFICATIO BASIS. SAMP	ON, EPD MAY F LING AND ANA	REQUIRE THE AI	PPLICABLE PER STORMWATER E	MITEE TO SUBN DISCHARGE(S) (D IN A SIMILAR	1IT THE SAN OR THE REC
IPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE DRMWATER OUTFALL CHANNEL(S).	EPD. TI SUBMI	HE SAMPLING	REPORTS MI	UST BE SIGNE	ED IN ACCORD	ANCE WITH PAR RVICE PROVIDE	RT V.G.2. SAMPL	ING REPORTS	<i>I</i> UST BE S MUST BE
IPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.	2. ALL SA	MPLING REPC	ONTIL SUCH	NCLUDE THE	FOLLOWING I	ED IN ACCORDA	NCE WITH PAR	VI.	
NUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM FOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, LESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC MPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING AGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.	A. THE B. THE C. THE D. THE E. THE F. REF G. THE	RAINFALL AM NAME(S) OF 1 DATE(S) ANAI TIME(S) ANAL NAME(S) OF 1 ERENCES ANE RESULTS OF	OUNT, DATE THE CERTIFIE LYSES WERE YSES WERE THE CERTIFIE WRITTEN P SUCH ANALY	, EXACT PLAC ED PERSONNE E PERFORMED INITIATED; ED PERSONNE ROCEDURES, (SES_INCLUD	CE AND TIME O EL WHO PERF(); EL WHO PERF(, WHEN AVAILA ING THE BENC	OF SAMPLING OF ORMED THE SAM ORMED THE ANA ABLE, FOR THE A	R MEASUREMEN MPLING AND ME ALYSES; ANALYTICAL TE TRUMENT READ	TS; ASUREMENTS; CHNIQUES OR I	METHODS U
MPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS RMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.	TAP H. RES I. CER	ES, ETC. USE ULTS WHICH E TIFICATION S	D TO DETERN EXCEED 1000 TATEMENT T	/INE RESULTS) NTU SHALL E HAT SAMPLIN	S; BE REPORTED IG WAS CONDU	AS "EXCEEDS 1 JCTED AS PER 1	000 NTU"; AND FHE PLAN.		
E UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE THE FIRST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHES UPSTREAM AT E SITE) BUT DOWNSTREAM OF ANY OTHER STORMWATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. ERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN O THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.	3. ALL WF MAIL (C APPEN SITE O	RITTEN CORRE DR SIMILAR SE DIX A OF THIS R THE PROOF	ESPONDENCI RVICE) TO TI PERMIT, THI OF SUBMITT	e required e he appropri e permitee s al shall be	BY THIS PERM IATE DISTRICT SHALL RETAIN READILY AVAI	IT SHALL BE SUI OFFICE OF THE A COPY OF THE LABLE AR A DES	BMITTED BY TH E EPD ACCORDI E PROOF OF SUI BIGNATED LOCA	E RETURN REC NG TO THE SCH 3MITTAL AT THE ATION FROM CO	EIPT CERTIF IEDULE IN E CONSTRU(MMENCEME
E DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE	CONST <u>RETENT</u> IC	N OF RECO	DRDS: PAR	⊑ a5 a <u>nut</u> is <u>RT IV.F</u>	D OURMITTED	IN ACCORDANCE	= WITH PART VI.		
E) BUT UPSTREAM OF ANY OTHER STORMWATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE PROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND E ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.	1. THE PF BE REA TIME A	RIMARY PERMI IDILY AVAILAB S A NOT IS SU	TTEE SHALL LE AT A DES BMITTED IN /	RETAIN THE I IGNATED ALT ACCORDANCE	FOLLOWING R ERNATE LOCA E WITH PART V	ECORDS AT THE TION FROM COI		ON SITE OR THE	RECORDS
ALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR E STORMWATER OUTFALL CHANNEL(S).	A. A CC B. A CC	OPY OF NOTIC	ES OF INTEN ROSION, SED	T SUBMITTED	TO EPD; AND POLLUTIC	ON CONTROL PL	AN REQUIRED I	BY THIS PERMIT	,
RE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL DRMWATER CHANNEL.	C. THE IV.A.5 (D_A_C)	DESIGN PROF OF THE IS PER OPY OF ALL SA	ESSIONAL'S MIT; MPLING INFO	REPORT OF T	THE RESULTS	OF THE INSPEC		ED IN ACCORD	ANCE WITH
E SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.	E. A CC F. A CC III.D.2. (PPY OF ALL IN PY OF ALL VIC OF THIS PERM	SPECTION RE DLATION SUN	EPORTS GENE IMARIES AND	ERATED IN ACC VIOLATION SU	CORDANCE WIT	H PART IV.D.4.a RTS GENERATEI	OF THIS PERM D IN ACCORDAN	T; ICE WITH P#
RMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS			NFORMATION		IN ACCORDAN	ICE WITH PART	IV.D.4.a.(2). OF	THIS PERMIT.	
ABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND EAS NOT COVERED BY PERMANENT STRUCTURES, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT GETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED TH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS PROPRIATE FOR THE REGION).	ALL CA MONITO CONTR ALL OT IT FOR	LIBRATION AN DRING INSTRU OL PLANS, RE HER RECORD A PERIOD OF	ID MAINTENA IMENTATION CORDS OF A S REQUIRED AT LEAST TH	NCE RECORE), OR OTHER I ALL DATA USE BY THIS PER HREE YEARS I	DS AND ALL OF REPORTS REC D TO COMPLE MIT SHALL BE FROM THE DA	RIGINAL STRIP C QUESTED BY THI TE THE NOTICE RETAINED BY T TE THAT THE NO	CHART RECORD E EPD, EROSION OF INTENT TO THE PERMITTEE DT IS SUBMITTE	INGS FOR CON N SEDIMENTATI BE COVERED B WHO EITHER P D IN ACCORDA	TNUOUS ON AND POL Y THIS PERM RODUCED C NCE WITH P
	THE WAT EXPINES PROVIDED THE EXISTING THEAM INDURING TEST HAT THE DIRECTOR (PERD) HAS DETERMINED TO BE OR MAY REASONABLY BE EXPECTED TO BE CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.	 PERMIT PORTEGATES TRAVIED IN THE EXEMPTION OF SAMPLES MADE BE AND THE DESCRIPTING TO A WATER QUALITY STANDARD. STEE SUES AND RESOLANDES FROM USER THAT THE OPERATOR (PP) IN ADD DETERMINED TO BE OR MAY REASONABLY DE CREATED TO BE CONTRIBUTING TO A WATER QUALITY STANDARD. STEE SUES AND REQUILATORS FOR WATER QUALITY CONTROL. CHAPTER 391.36 G3 LING METHODOLOGY. PART IN LAIL CAUGE VIOLATIONS OF GEORGIAS IN STREAM WATER QUALITY COMPOLICING THE DEPART TO THE DECONTROL OF A WATER QUALITY CONTROL. CHAPTER 391.36 G3 LING METHODOLOGY. PART IN LAIL CAUGE VIOLATIONS OF GEORGIAS IN STREAM WATER QUALITY COMPOLICING WATER STREAM WATER QUALITY COMPOLICING THE DEPART TO THE DECONTROL OF AN INTERVIEW OF THESE SAMPLES MUST BE CONDUCTED IN THE INFORMATION. MUNINS SHALL BE COLLECTED BY THE REMIT SHALL CAUGE VIOLATIONS OF GEORGIAS IN STREAM WATER QUALITY COMPOLICING WATER STREAM WATER AND THE CONTAINERS AND DEPART TO THE PROVIDE IN THE DEPART TO THE DEPART TO THE DEPART TO THE DEPART TO THE PROVIDE IN THE DEPART TO THE PROVIDE IN THE PROVIDE IN THE DEPART TO THE DEPART TO THE DATE TO THE PROVIDE IN THE DEPART TO THE PROVIDE IN THE PROVIDE IN THE DEPART TO THE PROVIDE IN THE DEPART TO THE PROVIDE INTEGED AND THE ADVALUE AND THE ADVALUE AND THE ADVALUE AND THE ADVALUE AND THE A	THE INSTITUTION OF A WARE COMPLEXED INSTITUTION OF A WARE COMMITTED AND SUCH DESCRIPTIONS THE INSTITUTIONS ROUGHLY DE VENTRE SUCH CONTRUCTION STRET INT THE DESCRIPTION OF TREEMINED TO BE OR MARKS. STREEMINES TO BE OR MARKS. ROUGHLY COMPLIANCE: PART LOLD STREEMINES TO BE OR MARKS. STREEMINES TO BE OR MARKS. NERNESS AUTORIZED BY THIS FERMIT SHALL CAUSE WOLATIONS OF GEORGIAS IN STREAM WATER OUALITY STREEMINES TO BE OR MARKS. NERNESS AUTORIZED BY THIS FERMIT SHALL CAUSE WOLATIONS OF GEORGIAS IN STREAM WATER OUALITY STREEMINES TO BE OR MARKS. NEWINS SHALL BE COLLECTED BY THIS FERMIT SHALL CAUSE WOLATIONS OF GEORGIAS IN STREAM WATER OUALITY STREEMINESS ON THE STREAMINES NAMES AUTOR STREAM SHOLD DE CLUETED BY THIS FIRM THAN LEYES OF THESE SAMPLES MUST BE CONDUCTED IN LANCE. THE STREAMINESS ON THE STREAMINESS NAME CONTINUE CONTINUE OF SAMPLES AND FIGULATIONS OF GEORGIAS IN STREAM WATER OUALITY THE STREAMINESS ON THE STREAMINESS NAME CONTINUE CONTINUE OF SAMPLES AND FIGULATIONS OF THESE SAMPLES MUST BE CONDUCTED IN LANCE WITH NE INDUCTORY THAN THAN THE PREPARED BY THE STREAMINES THE THE STREAMINESS ON THE STRE	 Handlin Evenes percention is taken mean many frame the end of the stand mean data waters of the stand waters of the stand mean data waters of the stand w	 Hand Lange Products of the Long Including And and Unit of Estimation for the Construction of the Construction. Bergenous and Topology Products of the Construction of the Construction of the Construction. Bergenous and Topology Products of the Construction of the Construction. Bergenous and Topology Products of the Construction of the Construction. Bergenous and Topology Products of the Construction of the Construction. Bergenous and Topology Products of the Construction. Bergenous and Construction. <li< td=""><td> Provide Singer Control Contro</td><td>Call Dollar Should in Looking shall not be any bar bar bar bar bar bar bar bar bar bar</td><td><text></text></td><td>Link is a nonzel in the second is the sec</td></li<>	 Provide Singer Control Contro	Call Dollar Should in Looking shall not be any bar	<text></text>	Link is a nonzel in the second is the sec

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OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUESTED OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

PROJECT REFERENCE/24 HOUR CONTACT INFORMATION:

EVELOPER/PRIMARY PERMITTEE/OWNER	Cľ
AVANNAH CHATHAM	CF
OUNTY PUBLIC SCHOOL SYSTEM	M
TTN: SLADE HELMLY	21
509 HOPKINS STREET	SA
AVANNAH, GA 31405	PH
HONE: (912) 395-1032	EN
MAIL: slade.helmly@sccpss.com	

SEDIMENT STORAGE:

THE SITE HAS A TOTAL DISTURBED AREA OF 44.9 ACRES. THE FOLLOWING CALCULATIONS SUMMARIZE THE REQUIRED AND AVAILABLE SEDIMENT STORAGE PROVIDED FOR THIS PROJECT. SEDIMENT STORAGE - THE PERMIT REQUIRES A MINIMUM OF 67 CUBIC YARDS OF SEDIMENT STORAGE PER ACRE.

- BASIN #1 POND ADJACENT TO FOOTBALL STADIUM (14.31 AC) 1. TOTAL DRAINAGE AREA = 13.11 AC
- NUMBER OF INLETS = 10
- 2. REQUIRED SEDIMENT $\overline{\text{STORAGE}}$ = 67 CY / AC X DRAINAGE AREA = 67 CY / AC X <u>13.11 AC</u>
 - = <u>878 CY</u> = <u>23,716 CF</u>
- 3. EXCAVATION DEPTH (MINIMUM OF 1.5 FT) = 2.5 FT 4. SLOPE SIDES (SHALL NOT BE STEEPER THAN 2:1) = 2:1
- 5. REQUIRED SURFACE AREA / EXCAVATED SEDIMENT TRAP SAmin = SEDIMENT STORAGE / SEDIMENT DEPTH SAmin = <u>360</u> CF / 2.5 FT SAmin = 144 SF min
- 6. SHAPE OF EXCAVATION AND DETERMINE DIMENSIONS (A RECTANGULAR SHAPE WITH 2:1 LENGTH TO WIDTH RATIO IS RECOMMENDED). SHAPE: <u>SQUARE</u>
- DIMENSIONS: L = 12 FT ; W = 12 FT ; DIAMETER = N/A FT 7. TOTAL SEDIMENT STORED BY SEDIMENT TRAPS = 3,600 CF
- REMAINING REQUIRED SEDIMENT STORAGE STORAGE = 23,716 CF 3,600 CF

NOTE: THE REMAINING REQUIRED SEDIMENT STORAGE WILL BE ACHIEVED BY OVER EXCAVATING THE TWO PONDS BY THE STADIUM EXCAVATED DEPTH REQUIRED = 20,116 CF / 20,710 SF = 0.97 FT

THEREFORE OVER EXCAVATE PONDS 1 FT

BASIN #2 POND ON EAST SIDE OF CAMPUS BY BUS DRIVE 1. TOTAL DRAINAGE AREA = 7.49 AC

- NUMBER OF INLETS = <u>12</u> 2. REQUIRED SEDIMENT STORAGE = 67 CY / AC X DRAINAGE AREA = 67 CY / AC X 7.49 AC
- = 501.83 <u>CY</u> = <u>13,549 C</u>F
- 3. EXCAVATION DEPTH (MINIMUM OF 1.5 FT) = 2.5 FT 4. SLOPE SIDES (SHALL NOT BE STEEPER THAN 2:1) = 2:1
- 5. REQUIRED SURFACE AREA / EXCAVATED SEDIMENT TRAP SAmin = SEDIMENT STORAGE / SEDIMENT DEPTH SAmin = 360 CF / 2.5 FT SAmin = 144 SF min
- 6. SHAPE OF EXCAVATION AND DETERMINE DIMENSIONS (A RECTANGULAR SHAPE WITH 2:1 LENGTH TO WIDTH RATIO IS RECOMMENDED). SHAPE: <u>SQUARE</u>
- DIMENSIONS: L = $\underline{12}$ FT ; W = $\underline{12}$ FT ; DIAMETER = $\underline{N/A}$ FT 7. TOTAL SEDIMENT STORED BY SEDIMENT TRAPS = 360 CF X 12 INLETS = 4,320 CF

REMAINING REQUIRED SEDIMENT STORAGE STORAGE = 13,549 CF - 4,320 CF

NOTE: THE REMAINING REQUIRED SEDIMENT STORAGE WILL BE ACHIEVED BY OVER EXCAVATING THE POND BY THE BUS DRIVE. EXCAVATED DEPTH REQUIRED = 9,229 CF / 19,310 SF = <u>0.48 FT</u>

THEREFORE OVER EXCAVATE PONDS 0.5 FT

BASIN #3 LARGE POND BY BASEBALL FIELDS 1. TOTAL DRAINAGE AREA = 20.60 AC

- NUMBER OF INLETS = <u>38</u>
- 2. REQUIRED SEDIMENT $\overline{\text{STORAGE}} = 67 \text{ CY} / \text{AC X DRAINAGE AREA}$
 - = 67 CY / AC X <u>20.60 AC</u>
- = <u>1,380 CY</u> = <u>37,265 CF</u> 3. EXCAVATION DEPTH (MINIMUM OF <u>1.5 FT</u>) = <u>2.5 FT</u>
- 4. SLOPE SIDES (SHALL NOT BE STEEPER THAN 2:1) = 2:1
- 5. REQUIRED SURFACE AREA / EXCAVATED SEDIMENT TRAP SAmin = SEDIMENT STORAGE / SEDIMENT DEPTH SAmin = <u>360</u> CF / 2.5 FT SAmin = 144 SF min
- 6. SHAPE OF EXCAVATION AND DETERMINE DIMENSIONS (A RECTANGULAR SHAPE WITH 2:1 LENGTH TO WIDTH RATIO IS RECOMMENDED). SHAPE: <u>SQUARE</u>
- DIMENSIONS: L = $\underline{12}$ FT ; W = $\underline{12}$ FT ; DIAMETER = $\underline{N/A}$ FT 7. TOTAL SEDIMENT STORED BY SEDIMENT TRAPS = 360 CF X 38 INLETS = 13,680 CF

REMAINING REQUIRED SEDIMENT STORAGE STORAGE = 37,265 CF - 13,680 CF

NOTE: THE REMAINING REQUIRED SEDIMENT STORAGE WILL BE ACHIEVED BY OVER EXCAVATING THE POND BY THE BASEBALL FIELDS. EXCAVATED DEPTH REQUIRED = 23,585 CF / 37,660 SF = <u>0.63 FT</u>

THEREFORE OVER EXCAVATE PONDS <u>1 FT</u>

DESIGN VALUES DETERMINED BY THIS SHEET REPRESENT THE MINIMUM REQUIREMENTS FOR A TEMPORARY SEDIMENT BASIN.

CIVIL SITE WORK DESIGN PROFESSIONAL CRAIG R. ZUCK MOFFATT & NICHOL EAST BRYAN STREET, SUITE 501 SAVANNAH, GA 31401

PHONE: (912) 231-0044 EMAIL: CZUCK@MOFFATTNICHOL.COM

24 HOUR CONTACT CRAIG R. ZUCK **MOFFATT & NICHOL** (912) 231-0044

= <u>20,116 CF</u>

= <u>9,229 CF</u>

= <u>23,585 C</u>F

PROJECT REFERENCE

CRAIG R. ZUCK, PE MOFFATT & NICHOL 2 EAST BRYAN STREET, SUITE 501 SAVANNAH, GA 31401 PHONE: (912) 231-0044

SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM SULFOR **RFP C24-01 GROVES ATHLETIC** FIELD & FIELDHOUSE **PROJECT CONSULTANTS:** LANDSCAPE ARCHITECT: CLH DESIGN, P.A. CIVIL ENGINEERS: MOFFATT & NICHOL CHA CONSULTING, INC. STRUCTURAL ENGINEER: THARPE ENGINEERING GROUP, LLC MECHANICAL & PLUMBING: DULOHERY, WEEKS & GAGLIANO, INC. 321 WEST CONGRESS STREET SUITE 301 SAVANNAH, GEORGIA 31401 TEL. 912.695.2111 FAX 912.298.0206 WWW.LS3P.COM moffatt & nichol 2 EAST BRYAN ST., STE 501 • SAVANNAH, GA 31401 912-231-0044 •••••• No. 031068 PROFESSIONAL VGINEET. RONALD No opport 05-30-2023 MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS COPYRIGHT 2018 ALL RIGHTS RESERVED PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD. **REVISIONS:** Date Description PROJECT: 5201-192070 DATE: 05/30/2023

DRAWN BY: FAP CHECKED BY: CRZ

	<u> </u>	
	EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ES&PC) THIS PLAN WAS PREPARED AS REQUIRED BY NPDES GENERAL PERMIT NO. GAR 100001. THESE PLAN SHEETS AND ALL	ALL PERSONN WILL BE POSTI
	REQUIREMENTS OF THE GENERAL PERMIT AS WELL AS LOCAL, STATE, AND FEDERAL REGULATIONS OR LAWS APPLY REGARDLESS OF SPECIFIC INCLUSION IN THIS PLAN.	FOLLOWED.
	SITE DESCRIPTION	A SECTION 4
	THIS PROJECT INCLUDES EARTHWORK, UTILITY INSTALLATION, AND PAVING TO SERVE AN APPROXIMATELY 48 ACRE AREA AT THE NEW K-12 MULTI-SCHOOL IN SAVANNAH, GA.	HAZARDOUS
D —	SAVANNAH CHATHAM, AS PRIMARY PERMITTEE, WILL OVERSEE SITE CONSTRUCTION LOCATED IN SAVANNAH, GEORGIA. THE SITE IS LOCATED IN CHATHAM COUNTY, GA. THE PROJECT LIMITS CONTAIN APPROXIMATELY 48 ACRES . ACREAGE OF THE DISTURBANCE WITHIN THE PROJECT AREA: 44.9 ACRES . CURRENTLY THE SOUTHERN END OF THE SITE CONSISTS OF A COUPLE PAVED PARKING LOTS, A FOOTBALL FIELD AND A FEW	ALL HAZARDO REGULATIONS RESPONSIBLE MATERIAL SAF SITE WILL BE O PRODUCTS, AN
	SUPPORT BUILDINGS. THE NORTHERN END OF THE SITE CURRENTLY CONSISTS OF SEVERAL BUILDINGS, A TRACK, AND BASEBALL FIELD. THE SITE WILL BE GRADED AND STABILIZED. THE DRAINAGE ON THE SITE FLOWS ACROSS THE SITE AND INTO EXISTING DITCHES, INLETS AND INTO THE DETENTION POND BEFORE OUTFALLING INTO AN OFFSITE DITCH WHICH DISCHARGES INTO PIPE MAKERS'S AND DUNDEE CANAL. PERMANENT GRASSING WILL BE INSTALLED TO PROTECT EARTHEN AREAS FROM EROSION ONCE CONSTRUCTION IS COMPLETE.	ANOTHER COF EACH EMPLOY SHEETS AND T REGARDING SI
	CONSTRUCTION WILL BEGIN WITH INSTALLATION OF A CONSTRUCTION EXIT, PLACEMENT OF PERIMETER SILT FENCE ALONG APPLICABLE PORTIONS OF THE PROJECT LIMITS TO LIMIT THE AMOUNT OF SILT RUNOFF. AFTER THESE EROSION CONTROL BMPS HAVE BEEN INSTALLED, EARTHWORK ACTIVITIES WILL BEGIN. CONSTRUCTION OF DRAINAGE PROVISIONS WILL START. THE SITE WILL THEN BE GRADED AND STABILIZED WITH GRAVEL, VEGETATION, OR MULCH. FOR ES&PC PLAN SEE SHEETS CE101 - CE106.	THE CONTRAC THE ESPCP AN HAZARDOUS M SUCH CONTAC COMPLIANCE N SHALL BE THE SPCC PLAN.
	ZONING: C2 HEAVY COMMERCIAL	SANITARY W
	NAME OF RECEIVING WATERS: GARDEN CITY DRAINAGE SYSTEM, THEN PIPE MAKERS'S AND DUNDEE CANAL	
	STATE WATERS: STATE WATERS ARE NOT LOCATED WITHIN 200 FEET OF THE PROJECT SITE.	PORTABLE FAC
	SURVEY INFORMATION	ALL SANITARY STORMWATER
	ADJACENT PROPERTIES: FAIR LAWN BAPTIST CHURCH, CHATHAM VILLA RESIDENTIAL NEIGHBORHOOD.	SPECIALLY DE STORMWATER PLAN
	HORIZONTAL DATUM - ELEVATIONS SHOWN ARE IN FEET AND ARE BASED ON NAVD88.	GRADING PHA
	ZONE 1001 EAST, NAD83. THE SITE LIES WITHIN AN EFFECTIVE FEMA SPECIAL ELOOD HAZARD AREA ZONE X, AREA OF MINIMAL ELOOD HAZARD, AS	OFFSITE VE
c -	DOCUMENTED ON FEMA FIRM PANEL 13051C0135H, EFFECTIVE AUGUST 16, 2018 AND 13051C0132G, EFFECTIVE AUGUST 16, 2018.	A STABILIZED
	THE WEIGHTED CURVE NUMBER FOR THE TOTAL WATERSHED IS 85. RUNOFF COEFFICIENT (PROJECT SITE):	BE INSPECTED SITE WILL BE C
	WEIGHTED PRE CONSTRUCTION CURVE NUMBER (CN): 87	INVENTORY I
	• WEIGHTED POST CONSTRUCTION CORVE NOMBER (CN): 85 SOIL PROPERTIES/WATERSHEDS	THE FOLLOWIN BASED FUELS
	(SEE APPENDIX A IN THE ACCOMPANYING STORMWATER REPORT FOR SOILS MAP FOR TYPES AND LOCATIONS)	CRUSHED STO
	- INSTALLING PERIMETER AND OTHER SEDIMENT CONTROLS.	SPILL PREVE
	- INSTALLING A STABILIZED CONSTRUCTION EXIT. - GRADING AND EXCAVATION FOR UTILITIES.	PRACTICES SU PRACTICES WI
	- PREPARATION FOR FINAL SEEDING. - COMPLETION OF ON-SITE STABILIZATION.	GOOD HOUS
	CONTROLS	1. QUANTITIE
	EROSION AND SEDIMENT CONTROLS	2. PRODUCT FROM RAII
	ALL PERIMETER SILT FENCES AND CONSTRUCTION EXITS SHALL BE IN PLACE PRIOR TO ANY LAND DISTURBING ACTIVITIES. (CONSTRUCTION EXIT SHOULD BE DEFINED - INSTALLATION MAY WAIT UNTIL DEMOLITION HAS OCCURRED)	3. PRODUCT
	WHEN CONSTRUCTION ACTIVITIES HAVE CEASED IN AN AREA, THAT AREA SHALL BE STABILIZED WITHIN 14 DAYS. IF THE AREA IS NOT YET TO FINAL GRADE, IT SHALL BE MULCHED, IF THE AREA IS TO FINAL GRADE AND WILL EVENTUALLY CONTAIN SITE	4. PRODUCT RECOMME
	IMPROVEMENTS, IT SHALL BE TEMPORARY SEEDED. AREAS BROUGHT TO FINAL GRADE THAT WILL REMAIN PERVIOUS ARE TO BE PERMANENTLY SEEDED. ALLOWABLE EXCEPTIONS FROM THE NPDES GENERAL NPDES PERMIT NO. GAR 100001, ARE NOTED	5. THE CONT
в —	BELOW. "WHERE THE INITIAL OF STABILIZATION MEASURE BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARY OR	PRODUCT S
	"WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED,	PETROLEUM B DAILY FOR LEA PREVENTATIVE WATER, NATUF
	(E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAT 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED."	PROHIBITED. P BY LOCAL AND PAINTS/FINISH
	GRASSING SCHEDULES. STORMWATER FROM THIS SITE WILL BE ROUTED THROUGH THE PIPES AND DITCHES BEFORE ENTERING THE PONDS. THE PONDS	EXCESS PROD WITH THESE P AND RECOMMI
	DISCHARGES INTO AN EXISTING DRAINAGE DITCH AND DRAINAGE SYSTEM ON SR21, AND EVENTUALLY INTO PIPEMAKER'S AND DUNDEE CANALS.	CONCRETE TR OR DRUM WAS
	NON-STORMWATER DISCHARGES	FERTILIZER/HE SPECIFICATIO
	ALL NON-STORMWATER DISCHARGES WILL BE ROUTED THROUGH ON-SITE BMPs WHERE POSSIBLE. THESE DISCHARGES INCLUDE FLUSHING OF WATER AND FIRE LINES, IRRIGATION WATER, GROUND WATER, DEWATERING OF PITS OR DEPRESSIONS WITHIN THE CONSTRUCTION SITE AND RINSE OFF WATER OF NON-TOXIC MATERIALS.	EROSION AND CONTAINERS. BUILDING MAT
	OTHER CONTROLS	SUCH MATERIA BUILDING MAT
	NO WASTE WILL BE DISPOSED OF INTO STORMWATER INLETS OR WATERS OF THE STATE EXCEPT AS AUTHORIZED BY A SECTION 404 PET.	CONSTRUCTIC TO PRECIPITA WITH ALL MAN
_	ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURE VERDER METAL DUMPOTED. THE DUMPOTED WILL MEET	MANUFACTUR
Α -	ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ON-SITE.	

NEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES FED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE

TERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY 404 PERMIT

S WASTE

DUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL STATE, AND/OR FEDERAL S AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE E FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. FETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND PY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. YEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY SPILL CONTROL TECHNIQUES.

CTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN IN ND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF CT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT E RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE

WASTES

ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY BE COLLECTED FROM THE PORTABLE SANITARY UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED CILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMPs MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR ESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO DISCHARGES. THE LOCATION OF THE SANITARY WASTES UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL

ASE BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

HICLE TRACKING

CONSTRUCTION EXIT HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENT. SEE SHEETS 3 & CE501 FOR CONSTRUCTION EXIT LOCATION AND DETAILS. THE PAVED STREET ADJACENT TO THE SITE EXIT WILL) DAILY FOR TRACKING OF MUD, DIRT OR ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION COVERED WITH A TARPAULIN.

FOR POLLUTION PREVENTION PLAN

ING MATERIALS ARE EXPECTED ON-SITE DURING CONSTRUCTION: CONCRETE PRODUCTS, ASPHALT, PETROLEUM AND LUBRICANTS FOR EQUIPMENT, TAR, METAL REINFORCING, LUMBER, PESTICIDES, FERTILIZERS, HERBICIDES, ONE, PLASTIC, METAL, AND CONCRETE PIPES.

ENTION

SUCH AS GOOD HOUSEKEEPING, PROPER HANDLING OF HAZARDOUS PRODUCTS AND PROPER SPILL CONTROL VILL BE FOLLOWED TO REDUCE THE RISK OF SPILLS AND SPILLS FROM DISCHARGING INTO STORMWATER RUNOFF.

SEKEEPING

ES OF PRODUCTS STORED ON-SITE WILL BE LIMITED TO THE AMOUNT NEEDED FOR THE JOB.

TS AND MATERIALS WILL BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED INFALL, WHERE POSSIBLE.

TS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER LABELS LEGIBLE AND VISIBLE.

TS MIXING, DISPOSAL AND DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING TO THE MANUFACTURER'S ENDATIONS.

TRACTOR WILL INSPECT SUCH MATERIALS TO ENSURE PROPER USE, STORAGE AND DISPOSAL.

SPECIFIC PRACTICES

BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED AKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTION AND REGULAR /E MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE JRAL DRAINS AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED STATE REGULATIONS.

HES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. DUCT WILL NOT BE DISCHARGED TO THE STORMWATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS IENDATIONS.

RUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE SH WATER ONSITE.

ERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THAT MANUFACTURER'S INS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR) SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED

TERIALS/FORMWORK - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON-SITE. ALL AL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES. CONTRACTOR IS TO PROVIDE COVER FOR TERIALS AND BUILDING PRODUCTS WHEN APPROPRIATE.

ON AND BUILDING MATERIALS SHALL BE STORED IN APPROPRIATE CONTAINERS AND PROTECTED FROM EXPOSURE ATION AND STORMWATER WHERE APPLICABLE. CHEMICAL PRODUCTS SHALL BE STORED IN ORIGINAL CONTAINERS NUFACTURER'S LABELS OPENLY DISPLACE. USE AND DISPOSAL OF CHEMICALS SHALL CONFORM TO RER'S RECOMMENDATIONS

SPILL CLEANUP AND CONTROL PRACTICES

• LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. • MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL

- LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
- PREVENT FUTURE SPILLS.
- STATE, AND FEDERAL REGULATIONS.
- (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802. FOR SPILLS OF UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT
- 1-800-424-8802. AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTS AS REQUIRED BY LOCAL,

• FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER

FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL

PROJECT REFERENCE

CRAIG R. ZUCK, PE **MOFFATT & NICHOL** 2 EAST BRYAN STREET, SUITE 501 SAVANNAH, GA 31401 PHONE: (912) 231-0044

	SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM
	RFP C24-01 GROVES ATHLETIC FIELD & FIELDHOUSE
_	PROJECT CONSULTANTS: <u>LANDSCAPE ARCHITECT:</u> CLH DESIGN, P.A. <u>CIVIL ENGINEERS:</u> MOFFATT & NICHOL CHA CONSULTING, INC. <u>STRUCTURAL ENGINEER:</u> THARPE ENGINEERING GROUP, LLC <u>MECHANICAL & PLUMBING:</u> DULOHERY, WEEKS & GAGLIANO, INC.
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_	moffatt & nichoi 2 EAST BRYAN ST., STE 501 SAVANNAH, GA 31401 912-231-0044
	ROFESSIONAL RONALD

FROM LS3P ASSOCIATES LTD.								
RE	EVISIONS:							
-No.	No. Description Date							
PROJECT: 5201-192070								
DF	RAWN BY: FAP							
CH	IECKED BY: CRZ							
ES&PC GENERAL NOTES								

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05-30-2023

	EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ESPC)	STORMWATE
	PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE 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 OF EXIT THE SITE FOR EVIDENCE OF OFF-SITE	STORMWATER AND THE GUIDA
D -	(2) MEASURE AND RECORDED RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT 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 THE 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.	STORMWATER STORMWATER DESIGNED, INS CONDITION RES IN GENERAL PE SITE, THE SURF WATER FISHER
	(3) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITEE) 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 PERMITEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY PERMITEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENTATION CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITEE'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	SAMPLE TYP ALL SAMPLING ACCORDANCE PROCEDURES F DOCUMENT, EP PER NPDES PEI SHOULD BE WE GLASS OR PLAS
	UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITEE MUST COMPLY WITH PART IV.D.4.A(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.	AVOID CONTAN
_	(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	THERE WILL BE
	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).	<u>STORMWATE</u> <u>25-YR PRE DEV</u> BASIN I = 47.06 BASIN II = 23.54 BASIN III = 51.95
	(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.	APPENDIX B WA PERFORMED FO • CARE SHOU STORMWA
c -	(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 PROJECT 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 THE BEST MANAGEMENT PRACTICES TAHT 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.	 THE SAMPL THE SAMPL THE PRIMA STABILIZE I REPORTING 1. THE APPLIC PART II.C. E DURING WH LEGIBLE FO
	MAINTENANCE & INSPECTION OF EROSION & SEDIMENT CONTROLS	WATER(S)
	MAINTENANCE	SUBMITTEL SUBMITTEL
	THE FOLLOWING BEST MANAGEMENT PRACTICE MAINTENANCE CRITERIA ARE TAKEN FROM THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", FIFTH EDITION.	2. ALL SAMPL
_	CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5 -3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.	A. THE RAI B. THE NAM C. THE DAT D. THE TIM E. THE NAM
	RETROFIT STRUCTURES SHALL BE KEPT CLEAR OR TRASH AND DEBRIS. THIS WILL REQUIRE CONTINUOUS MONITORING AND MAINTENANCE, WHICH INCLUDES SEDIMENT REMOVAL WHEN ONE-THIRD OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST.	G. THE RES TAPES, I H. RESULT
	SEDIMENT SHALL BE REMOVED FROM SILT FENCES ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS).	I. CERTIFI 3. ALL WRITTI MAIL (OR S
	SEDIMENT SHALL BE REMOVED FROM SEDIMENT TRAPS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP.	APPENDIX SITE OR TH CONSTRUC
в –	SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET, AGAIN.	COMPLIANCE
	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 AREA AROUND THE INLET.	THE CONTRACT STORMWATER WITH SUCH REC OWNER OR AN
	REPAIR ALL DAMAGES CAUSED TO TEMPORARY SEDIMENT BASINS BY SOIL EROSION OR CONSTRUCTION EQUIPMENT AT OR BEFORE THE END OF EACH WORKING DAY. SEDIMENT SHALL BE REMOVED FROM THE BASIN WHEN IT REACHED THE SPECIFIED DISTANCE BELOW THE TOP OF THE RISE. SEDIMENT SHALL NOT ENTER ADJACENT STREAMS OR DRAINAGE WAYS DURING SEDIMENT REMOVAL OR DISPOSAL. THE SEDIMENT SHALL NOT BE DEPOSITED DOWNSTREAM FROM THE EMBANKMENT, ADJACENT TO A STREAM OR FLOODPLAIN.	LOCAL, STATE A THE ES&PC ANI ACCESS TO TH
	ROUGHENED AREAS SHALL BE SEEDED AND MULCHED AS SOON AS POSSIBLE TO OBTAIN OPTIMUM SEED GERMINATION AND SEEDING GROWTH.	
_	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 SIX 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 SIX MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATIVE TECHNIQUES SHALL BE EMPLOYED.	
	PERMANENT VEGETATION SHALL BE APPLIED IMMEDIATELY TO ROUGH GRADED AREA THAT WILL BE UNDISTURBED FOR LONGER THAN SIX MONTHS. THIS PRACTICE OF 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, AT LEAST 70% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP-RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN EMPLOYED.	
Α -	PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES, 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. 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.	

ER SAMPLING

<u>ALYSIS</u>

SAMPLES ARE TO BE ANALYZED WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 ANCE DOCUMENT TITLED "NPDES STORMWATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001."

IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION. A DISCHARGE OF RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY STALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH SULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 50, THE VALUE THAT WAS SELECTED FROM APPENDIX B RMIT NO. GAR 100001. THE NTU IS BASED UPON THE DISTURBED ACREAGE OF 44.9 ACRES FOR THE PROJECT FACE WATER DRAINAGE AREA LESS THAN 0.05 SQUARE MILES, AND RECEIVING WATER WHICH SUPPORTS WARM RIES.

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

RMIT, GAR 100001, "SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES. SAMPLES ELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER. LARGE MOUTH, WELL-CLEANED AND RINSED STIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANSED THOROUGHLY TO MINATION. MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED.

POINTS

3 STORMWATER SAMPLING LOCATIONS.

ER SAMPLING

ELOPMENT STORMWATER RUNOFF (cfs):

25-YR POST DEVELOPMENT STORMWATER RUNOFF (cfs): STADIUM POND OUTFALL = 28.05 BUS POND OUTFALL = 18.38 BASEBALL POND OUTFALL = 33.47

AS USED TO DETERMINE THE NTU UNITS ALLOWABLE AND UPSTREAM AND DOWNSTREAM SAMPLING WILL BE OR THIS PROJECT.

OULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL TER CHANNEL.

LING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM. LINGS SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

ARY PERMITTEE DOES NOT HAVE TO SAMPLE SHEET FLOW ONTO UNDISTURBED NATURAL AREAS OR AREAS BY THE PROJECT.

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

LING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

INFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;

ME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;

TE(S) ANALYSES WERE PERFORMED;

IE(S) ANALYSES WERE INITIATED; ME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;

ENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; SULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR ETC. USED TO DETERMINE RESULTS;

IS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU"; AND

ICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

EN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY THE RETURN RECEIPT CERTIFIED SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN A OF THIS PERMIT. THE PERMITEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION HE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AR A DESIGNATED LOCATION FROM COMMENCEMENT OF CTION UNTIL SUCH TIME AS A **NOT** IS SUBMITTED IN ACCORDANCE WITH PART VI.

E WITH FEDERAL, STATE, AND LOCAL REGULATIONS

TOR WILL OBTAIN COPIES OF ANY AND ALL LOCAL AND STATE REGULATIONS THAT ARE APPLICABLE TO MANAGEMENT, EROSION CONTROL, AND POLLUTION MINIMIZATION AT THIS JOB SITE AND WILL COMPLY FULLY GULATIONS. THE CONTRACTOR WILL SUBMIT WRITTEN EVIDENCE OF SUCH COMPLIANCE IF REQUESTED BY THE Y AGENT OF A REGULATORY BODY. THE CONTRACTOR WILL COMPLY WITH ALL CONDITIONS OF ANY AND ALL AND FEDERAL AGENCIES HAVE GOVERNING AUTHORITY. INCLUDING THE CONDITIONS RELATED TO MAINTAINING ID EVIDENCE OF COMPLIANCE WITH THE ES&PC AT THE JOB SITE AND ALLOWING REGULATORY PERSONNEL E JOB SITE AND TO RECORDS IN ORDER TO DETERMINE COMPLIANCE.

CERTIFICATION

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMEI APPROPRIATE AND COMPREHENSIVE SYSTEM OF BES CONTROL ACT AND THE DOCUMENT "MANUAL FOR EI THE GEORGIA SOIL AND WATER CONSERVATION COM ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMP STORMWATER OUTFALLS THAT THE DESIGNED SYSTE CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR ling Aut.

GSWCC LEVEL II DESIGN PROFESSIONAL: CRAIG R. ZU GSWCC CERTIFICATION NO. 0000012478

DESIGN PROFES

THE DESIGN PROFESSIONAL WHO PREPARE **INITIAL SEDIMENT STORAGE REQUIREMENTS** INSTALLATION.

DATE OF INSPECTION

"I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE

GSWCC LEVEL II DESIGN PROFESSIONAL: CRAIG R ZU GSWCC CERTIFICATION NO. 0000012478

INSPECTION REVEALED THE FOLLOWING DISCREPAN

THESE DEFICIENCIES MUST BE ADDRESSED IMMEDIA THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICAT

ENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN EST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY ROSION AND SEDIMENT CONTROL IN GEORGIA," (MANUAL) PUBLISHED BY MMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTRUBING PLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE EM OF BEST MANAGEMENT PRACTICES MEETS THE DESIGN REQUIREMENTS R 100001."
UCK, P.E.
SSIONAL 7-DAY VISIT CERTIFICATION
ED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE S AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER
ESPC PLAN ON THE DATE OF INSPECTION."
JCK, P.E.
ICIES FROM THE ESPC PLAN.
ATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON ION IS OBTAINED.
Terming Terming Terming Terming

PROJECT REFERENCE

CRAIG R. ZUCK, PE **MOFFATT & NICHOL** 2 EAST BRYAN STREET, SUITE 501 SAVANNAH, GA 31401 PHONE: (912) 231-0044

	SAVANNAH-CHATHA COUNTY PUBLIC SCI SYSTEM	M 100L
	SCCPS	<u>SS</u>
-	RFP C24-01 GROVES ATH FIELD & FIELDHOUSE	LETIC
	PROJECT CONSULTANTS <u>LANDSCAPE ARCHITECT:</u> CLH DESIGN, P.A. <u>CIVIL ENGINEERS:</u> MOFFATT & NICHOL CHA CONSULTING, INC. <u>STRUCTURAL ENGINEER:</u> THARPE ENGINEERING GROUP <u>MECHANICAL & PLUMBING:</u> DULOHERY, WEEKS & GAGLIAN	, LLC NO, INC.
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	321 WEST CONGRESS STRE SAVANNAH, GEORGIA TEL. 912.695.2111 FAX WWW.LS3P.CO	ET SUITE 301 \ 31401 912.298.0206 M
	noffatt & nl 2 EAST BRYAN ST., S SAVANNAH, GA 31 912-231-0044	chol rE 501 401
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Nc	REVISIONS: Description	Date
	PROJECT: 5201-1920	70
	DATE: 05/30/2023 DRAWN BY: FAP CHECKED BY: CRZ	
-	ES&PC GENE NOTES	RAL
	CFO	05

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<u>NOTES</u>

- 1. INITIAL PHASE INCLUDES THE DEMOLITION OF THE EXISTING BUILDINGS, PAVEMENT, AND UTILITIES.
- 2. EROSION CONTROL PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- 3. THERE ARE NO WETLANDS ON THE SITE.
- 4. THERE ARE NO STATE WATERS ON OR WITHIN 200' OF THE SITE.
- 5. REFER TO STORMWATER REPORT FOR PRE AND POST DEVELOPMENT DRAINAGE BASIN DELINEATION.
- 6. ALL SILT FENCE FOR THIS PROJECT SHALL BE SD1-NS.

INITIAL PHASE NOTES

- 1. INSTALL CONSTRUCTION EXIT (Co)
- 2. INSTALL SILT FENCE (Sd1-NS)
- 3. INSTALL MULCHING & GRASSING AT
- NECESSARY LOCATIONS (Ds1 & Ds2)
- 4. INSTALL STRAW-BALE CHECK DAMS (Cd-Hb)
- 5. INSTALL CURB INLET PROTECTION (Sd2-P)
- 6. PROVIDE DUST CONTROL (Du)
- 7. EXCAVATE DETENTION PONDS
- 8. INSTALL FLOATING SURFACE SKIMMERS (Sk)

SOILS CHART

- Cc: CAPE FEAR SOILS TYPE C/D
- Oj: OCILLA COMPLEX TYPE B/D
- Ojc: OCILLA-URBAN LAND COMPLEX TYPE B/D
- Okc: OGEECHEE-URBAN LAND COMPLEX TYPE B/D
- Pn: POOLER FINE SANDY LOAM TYPE C/D
- Wac: WAHEE-URBAN LAND COMPLEX TYPE C/D

<u>LEGEND</u>

Co	CONSTRUCTION EXIT SEE DETAIL C1 SHEET CE501
Ds1	DISTURBED AREA STABILIZATION (MULCHING ONLY) SEE DETAIL C4 SHEET CE502
Ds2	DISTURBED AREA STABILIZATION (TEMPORARY SEEDING) SEE DETAIL C5 SHEET CE502
Du	DUST CONTROL SEE DETAIL C3 SHEET CE502
Sd1-NS	SEDIMENT BARRIER - NON-SENSITIVE SEE DETAIL C2 SHEET CE502
Sd2-P	CURB INLET PROTECTION SEE DETAIL A2 SHEET CE502
Sk	FLOATING SURFACE SKIMMER SEE DETAIL A1 SHEET CE504
St	STORM DRAIN OUTLET PROTECTION SEE DETAIL A2 SHEET CE501
Tr	TREE PROTECTION SEE DETAIL A1 SHEET CE502
\frown	

Cd-Hb STRAW-BALE CHECK DAM SEE DETAIL C3 SHEET CE501

PROJECT REFERENCE

CRAIG R. ZUCK, PE MOFFATT & NICHOL 2 EAST BRYAN STREET, SUITE 501 SAVANNAH, GA 31401 PHONE: (912) 231-0044

SCALE: 1"=50'

REVISIONS:					
No.	Description	Date			
PRO	JECT: 5201	-192070			
DATE	E: 05/30/2023				
DRA	WN BY: FAP				
CHE	CKED BY: CRZ				
	:3&PC -				
	NITIAL				
	TAJE				

- 1. INITIAL PHASE INCLUDES THE DEMOLITION OF THE EXISTING BUILDINGS, PAVEMENT, AND
- 2. EROSION CONTROL PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS
- 3. THERE ARE NO WETLANDS ON THE SITE.
- 4. THERE ARE NO STATE WATERS ON OR WITHIN
- 5. REFER TO STORMWATER REPORT FOR PRE AND POST DEVELOPMENT DRAINAGE BASIN
- 6. CONTRACTOR TO USE CAUTION WHILE REMOVING CURB AND PAVEMENT AROUND OAK TREE. AS SOON AS PAVEMENT IS REMOVED, CONTRACTOR TO ERECT TREE
- 6. ALL SILT FENCE FOR THIS PROJECT SHALL BE

- 8. INSTALL FLOATING SURFACE SKIMMERS (Sk)

- Ojc: OCILLA-URBAN LAND COMPLEX TYPE B/D
- Okc: OGEECHEE-URBAN LAND COMPLEX TYPE B/D

- DISTURBED AREA STABILIZATION SEE DETAIL C4 SHEET CE502 DISTURBED AREA STABILIZATION
- SEDIMENT BARRIER NON-SENSITIVE SEE DETAIL C2 SHEET CE502
- CURB INLET PROTECTION SEE DETAIL A2 SHEET CE502
- FLOATING SURFACE SKIMMER SEE DETAIL A1 SHEET CE504
- STORM DRAIN OUTLET PROTECTION SEE DETAIL A2 SHEET CE501

DRAWN BY: FAP

CHECKED BY: CRZ

NOTES

- EROSION CONTROL PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- THERE ARE NO WETLANDS ON THE SITE. THERE ARE NO STATE WATERS ON OR WITHIN
- 200' OF THE SITE. 4. REFER TO STORMWATER REPORT FOR PRE AND POST DEVELOPMENT DRAINAGE BASIN
- DELINEATION. 5. ALL SILT FENCE FOR THIS PROJECT SHALL BE SD1-NS.

INTERMEDIATE PHASE NOTES

- 1. INSTALL CONSTRUCTION EXITS (Co)
- 2. INSTALL AND MAINTAIN SILT FENCE (Sd1-NS)
- 3. MAINTAIN MULCHING & GRASSING AT
- NECESSARY LOCATIONS (Ds1 & Ds2) 4. MAINTAIN DUST CONTROL (Du)
- 5. ADJUST TREE PROTECTION (Tr)
- 6. INSTALL STORM DRAIN OUTLET PROTECTION (St)
- 7. INSTALL STRAW-BALE CHECK DAMS (Cd-Hb)
- 8. INSTALL INLET PROTECTION (Sd2-F & Sd2-P) 9. INSTALL CONCRETE WASHOUTS
- 10. MAINTAIN FLOATING SURFACE SKIMMERS (Sk)

SOILS CHART

- Cc: CAPE FEAR SOILS TYPE C/D
- Oj: OCILLA COMPLEX TYPE B/D
- Ojc: OCILLA-URBAN LAND COMPLEX TYPE B/D
- Okc: OGEECHEE-URBAN LAND COMPLEX TYPE B/D
- Pn: POOLER FINE SANDY LOAM TYPE C/D
- Wac: WAHEE-URBAN LAND COMPLEX TYPE C/D

LEGEND

St

Tr

- CURB INLET PROTECTION SEE DETAIL A2 SHEET CE502 FLOATING SURFACE SKIMMER
- STORM DRAIN OUTLET PROTECTION
- SEE DETAIL A2 SHEET CE501
- TREE PROTECTION SEE DETAIL A1 SHEET CE502

PROJECT REFERENCE

CRAIG R. ZUCK, PE MOFFATT & NICHOL 2 EAST BRYAN STREET, SUITE 501 SAVANNAH, GA 31401 PHONE: (912) 231-0044

SCALE: 1"=50'

RFP C24-01 **GROVES ATHLETIC** FIELD & FIELDHOUSE

PROJECT CONSULTANTS: LANDSCAPE ARCHITECT: CLH DESIGN, P.A. CIVIL ENGINEERS: MOFFATT & NICHOL

CHA CONSULTING, INC.

STRUCTURAL ENGINEER: THARPE ENGINEERING GROUP, LLC

MECHANICAL & PLUMBING: DULOHERY, WEEKS & GAGLIANO, INC

321 WEST CONGRESS STREET SUITE 301 SAVANNAH, GEORGIA 31401 TEL. 912.695.2111 FAX 912.298.0206 WWW.LS3P.COM

05-30-2023

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Q:\SV\10797 GROVES K-12\600 FIELDHOUSE-ATHLETICS\1079

- 1. EROSION CONTROL PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS
- 2. THERE ARE NO WETLANDS ON THE SITE. 3. THERE ARE NO STATE WATERS ON OR WITHIN
- 4. REFER TO STORMWATER REPORT FOR PRE AND POST DEVELOPMENT DRAINAGE BASIN
- 5. ALL SILT FENCE FOR THIS PROJECT SHALL BE

- 6. INSTALL STORM DRAIN OUTLET PROTECTION (St)
- 7. INSTALL STRAW-BALE CHECK DAMS (Cd-Hb)
- 8. INSTALL INLET PROTECTION (Sd2-F & Sd2-P)
- 10. MAINTAIN FLOATING SURFACE SKIMMERS (Sk)

- Ojc: OCILLA-URBAN LAND COMPLEX TYPE B/D
- Okc: OGEECHEE-URBAN LAND COMPLEX TYPE B/D
- Pn: POOLER FINE SANDY LOAM TYPE C/D

- FLOATING SURFACE SKIMMER SEE DETAIL A1 SHEET CE504
- STORM DRAIN OUTLET PROTECTION SEE DETAIL A2 SHEET CE501

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GROVES ATHLETIC FIELD & FIELDHOUSE

PROJECT CONSULTANTS: LANDSCAPE ARCHITECT: CLH DESIGN, P.A. CIVIL ENGINEERS: MOFFATT & NICHOL

CHA CONSULTING, INC.

STRUCTURAL ENGINEER: THARPE ENGINEERING GROUP, LLC MECHANICAL & PLUMBING: DULOHERY, WEEKS & GAGLIANO, INC

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NOTES

- EROSION CONTROL PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- THERE ARE NO WETLANDS ON THE SITE. THERE ARE NO STATE WATERS ON OR WITHIN
- 200' OF THE SITE. . REFER TO STORMWATER REPORT FOR PRE
- AND POST DEVELOPMENT DRAINAGE BASIN DELINEATION.
- 5. ALL SILT FENCE FOR THIS PROJECT SHALL BE SD1-NS.

FINAL PHASE NOTES

- 1. MAINTAIN CONSTRUCTION EXIT (Co)
- 2. MAINTAIN SILT FENCE (Sd1-NS)
- 3. INSTALL GRASSING AND SODDING AT NECESSARY LOCATIONS (Ds3 & Ds4) 4. MAINTAIN TREE PROTECTION (Tr)
- 5. MAINTAIN STORM DRAIN OUTLET PROTECTION (St)
- 6. MAINTAIN STRAW-BALE CHECK DAMS (Cd-Hb)
- 7. INSTALL AND MAINTAIN INLET PROTECTION
- (Sd2-F, Sd2-G & Sd2-P) 8. MAINTAIN CONCRETE WASHOUT
- 9. MAINTAIN FLOATING SURFACE SKIMMER (Sk)

SOILS CHART

- Cc: CAPE FEAR SOILS TYPE C/D
- Oj: OCILLA COMPLEX TYPE B/D
- Ojc: OCILLA-URBAN LAND COMPLEX TYPE B/D
- Okc: OGEECHEE-URBAN LAND COMPLEX TYPE B/D
- Pn: POOLER FINE SANDY LOAM TYPE C/D
- Wac: WAHEE-URBAN LAND COMPLEX TYPE C/D

LEGEND

CONSTRUCTION EXIT Со SEE DETAIL C1 SHEET CE501

- DISTURBED AREA STABILIZATION Ds3 (PERMANENT VEGETATION) SEE DETAIL C1 SHEET CE503 DISTURBED AREA STABILIZATION Ds4 (WITH SODDING) SEE DETAIL A4 SHEET CE502 STRAW-BALE CHECK DAM SEE DETAIL C3 SHEET CE501 Cd-Hb
- SEDIMENT BARRIER NON-SENSITIVE (Sd1-NS SEE DETAIL C2 SHEET CE502 INLET SEDIMENT TRAP Sd2-F SEE DETAIL A2 SHEET CE502 INLET SEDIMENT TRAP Sd2-G

Sk

St

Tr

- SEE DETAIL A2 SHEET CE502 CURB INLET PROTECTION SEE DETAIL A2 SHEET CE502 Sd2-P
 - FLOATING SURFACE SKIMMER SEE DETAIL A1 SHEET CE504
 - STORM DRAIN OUTLET PROTECTION SEE DETAIL A2 SHEET CE501
 - TREE PROTECTION SEE DETAIL A1 SHEET CE502
- PROJECT REFERENCE

CRAIG R. ZUCK, PE MOFFATT & NICHOL 2 EAST BRYAN STREET, SUITE 501 SAVANNAH, GA 31401 PHONE: (912) 231-0044

RFP C24-01 **GROVES ATHLETIC** FIELD & FIELDHOUSE

PROJECT CONSULTANTS: LANDSCAPE ARCHITECT: CLH DESIGN, P.A.

CIVIL ENGINEERS: MOFFATT & NICHOL CHA CONSULTING, INC.

STRUCTURAL ENGINEER: THARPE ENGINEERING GROUP, LLC

MECHANICAL & PLUMBING: DULOHERY, WEEKS & GAGLIANO, INC

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- 2. THERE ARE NO WETLANDS ON THE SITE. 3. THERE ARE NO STATE WATERS ON OR WITHIN
- 4. REFER TO STORMWATER REPORT FOR PRE
- AND POST DEVELOPMENT DRAINAGE BASIN
- 5. ALL SILT FENCE FOR THIS PROJECT SHALL BE

- 3. INSTALL GRASSING AND SODDING AT NECESSARY LOCATIONS (Ds3 & Ds4)
- 5. MAINTAIN STORM DRAIN OUTLET
- 6. MAINTAIN STRAW-BALE CHECK DAMS (Cd-Hb) 7. INSTALL AND MAINTAIN INLET PROTECTION
- 9. MAINTAIN FLOATING SURFACE SKIMMER (Sk)

- Ojc: OCILLA-URBAN LAND COMPLEX TYPE B/D
- Okc: OGEECHEE-URBAN LAND COMPLEX TYPE B/D

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DEFINITION A temporary grade control structure, or dam constructed across a swale, drainage ditch, or area of concentrated flow.

CONDITIONS

This practice is applicable for use in small open channels and is not to be used in a live stream.

- Specific applications include:
- 1. Temporary or permanent swales or ditches in need of protection during establishment of grass linings.
- 2. Temporary or permanent swales or ditches that, due to their short length of service or other reasons, cannot receive a permanent non-erodible lining for an extended
- period of time. 3. Other locations where small localized erosion and resulting sedimentation problems exist.

CONSTRUCTION SPECIFICATIONS Straw-bale Check Dams

Staked and embedded straw-bales may be used as temporary check dams in concentrated flow areas while vegetation is becoming established. They shall not be used where the drainage area exceeds one acre. Straw-bales should be installed per Figure 6-12.3.

Installation

Bales should be bound with wire or nylon string. Twine bound bales are less durable. The bales should be placed in rows with bale ends tightly abutting the adjacent bales.

Downstream Row (Refer to Figure 6-12.3)

Dig a trench across the small channel, wide enough and deep enough so that the top of the row of bales placed on their long, wide side is level with the ground. The tops of bales across the center of the channel should all be level and set at the same elevation. Place the bales in position and stake them according to the instructions below.

Upstream Row

Dig another trench across the small channel, upstream and immediately adjacent to the first row of bales. The trench should be wide enough to accommodate a row of bales set vertically on their long edge. The trench should be deep enough so that at least 6 inches of each bale is below ground starting with the bale in the channel bottom.

The trench should be as level as possible so that the tops of the bales across the center of the channel are level and water can flow evenly across them. Continue this trench up the side slopes of the small channel to a point

where the unburied bottom line of the highest bale (Point "C", Figure 6-12.3) is higher than the top of the bales that are in the center of the channel (Point "D", Figure 6-12.3).

Anchorage

Drive standard 2 x 2 stakes or #4 rebar through the bales and into the ground 1 1/2 to 2 feet for anchorage. The first stake in each bale should be driven toward a previously laid bale to force the bales together (See Figure 6-12.3). Reference: Colorado NRCS Straw Bale Check Dam

1. La IS THE LENGTH OF

THE RIPRAP APRON.

- 2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT
- LESS THAN 6". 3. IN A WELL-DEFINED CHANNEL,
- EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVA
- OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE
- OF THE BANK (WHICHEVER IS L 4. A FILTER BLANKET OR FILTER
- SHOULD BE INSTALLED BETWE RIPRAP AND THE SOIL FOUNDA

NOTES:

BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS

WITH BALE ENDS <u>TIGHTLY</u> ABUTTING THE ADJACENT BALES. <u>REMOVE</u> #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE. POINT C OF SECTION B-B SHOULD <u>ALWAYS</u> BE HIGHER THAN POINT D.

CHECK DAM - STRAW BALES Cd-Hb

	OUTLET PROTECTION DESIGN CRITERIASt #1OUTLET OPENING :18"FLOW RATE (CFS):5.29 CFSTAILWATER CONDITION:>0.50 Ø(MIN. or MAX.)d50d50RIPRAP SIZE:3"dmax RIPRAP SIZE:4.5"MIN. RIPRAP THICKNESS(D):7"La:10'W1:4.5'W2:5.5'	OUTLET PROTECTION DESIGN CRITERIA St #15A OUTLET OPENING : 36" FLOW RATE (CFS): 33.47 CFS TAILWATER CONDITION: >0.50 Ø (MIN. or MAX.) d50 RIPRAP SIZE: d50 RIPRAP SIZE: 7.5" MIN. RIPRAP THICKNESS(D): 11.25" La: La: 14' W1: 9' W2: 9'
TION TOP LESS). FABRIC EN THE TION.	OUTLET PROTECTION DESIGN CRITERIA St #12A OUTLET OPENING : 48" FLOW RATE (CFS): 55.44 CFS TAILWATER CONDITION: >0.50 Ø (MIN. or MAX.) d50 d50 RIPRAP SIZE: 5" dmax RIPRAP SIZE: 7.5" La: 18' W1: 12' W2: 12'	
	OUTLET PROTECTION DESIGN CRITERIA OUTLET OPENING : 24" FLOW RATE (CFS): 18.64 CFS TAILWATER CONDITION: >0.50 Ø (MIN. or MAX.) d50 RIPRAP SIZE: 4" dmax RIPRAP SIZE: 6" MIN. RIPRAP THICKNESS(D): 9"	

La:1(W1:(W2:(<u>)'</u> <u>}'</u> <u>}'</u>
OUTLET PROTECTION DESIGN CRITERIA	€
OUTLET OPENING : 18 FLOW RATE (CFS): 6.71 CF TAILWATER CONDITION: >0.50 ((MIN_ or MAX_)	<u>" S</u> Ø
d50 RIPRAP SIZE:3	5"
dmax RIPRAP SIZE: 4.5	;"
MIN. RIPRAP THICKNESS(D): 7	"
La:10)'
W1:4.	5'
W2: 5.4	5'

PROJECT REFERENCE CRAIG R. ZUCK, PE **MOFFATT & NICHOL** SAVANNAH, GA 31401 PHONE: (912) 231-0044

STAPLES-

(2 PER

BALE)

BALE)

VARIES

GRAVEL DROP INLET PROTECTION

DEFINITION Controlling surface and air movement of dust on

construction sites, roads, and demolition sites. CONDITIONS

DEFINITION

possible, to the soil surface.

Mulching Without Seeding

SPECIFICATIONS

with a mulch cover.

Site Preparation

3 inches.

Mulching Materials

Applying Mulch

of the exposed area.

mulches.

Anchoring Mulch

by mechanical equipment.

3. Apply polyethylene film on exposed areas.

Netting of the appropriate size shall be used

shall not be larger than the average size

Polyethylene film shall be anchor trenched

at the top as well as incrementally as necessary.

of the wood waste chips.

to anchor wood waste. Openings of the netting

diversions, berms,

terraces and sediment barriers.

3. Loosen compact soil to a minimum depth of

can greatly reduce erosion control costs.

Applying plant residues or other suitable materials, produced on the site if

This standard applies to graded or cleared areas where seedings may not have a

suitable growing season to produce an erosion retardant cover, but can be stabilized

Grade to permit the use of equipment for applying and anchoring mulch.

Install needed erosion control measures as required such as dikes,

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 inches providing

complete soil coverage. One advantage of this material is easy application.

remain on site, be chipped, and applied as mulch. This method of mulching

Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3

inches. Organic material from the clearing stage of development should

Polyethylene film shall be secured over banks or stockpiled soil material for

When mulch is used without seeding, mulch shall be applied to provide full coverage

1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or

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

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 inches or more in diameter and 8 to 12 inches

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. Straw or hay mulch

spread with special blower-type equipment may be anchored. Tackifers,

binders and hydraulic mulch with tackifier specifically desgined for tacking

straw can be substituted for emulsified asphalt. Please refer to specification

Tac- Tackifers. Plastic mesh or netting with mesh no larger than one inch by

DISTURBED AREA

STABILIZATION

one inch shall be installed according to manufacturer's specifications.

offset the uptake of nitrogen caused by the decomposition of the organic

temporary protection. This material can be salvaged and re-used.

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

METHOD AND MATERIALS A. Temporary Methods

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

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

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

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

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

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

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

B. Permanent Methods

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

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

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

DUST CONTROL ON DISTURBED AREAS | Du

CURB INLET PROTECTION

PLAN

Bring soil surface to final grade. Clear surface of trash, woody debris, stones and clods larger than 4". Apply sod to soil surfaces only and not frozen surfaces, or gravel type soils. - Topsoil properly applied will help guarantee stand. Don't use topsoil recently treated with herbicides or soil sterilants. Mix fertilizer into soil surface. Fertilize based on soil tests or Table 6-6.1. For fall planting of warm season species, half the fertilizer should be applied at planting and the other half in the spring.

Table 6-6.1. Fertilizer Requirements for Soil Surface Application Fertilizer Type (bs/acre) (Ibs./acre) 10-10-10 1000

tons per acre

6-150

- Lay sod with tight joints and in straight lines. Don't overlap joints. Stagger joints and do not stretch sod. On slopes steeper than 3:1, sod should be anchored with wooden or biodegradable pins or other approved methods. Installed sod should be rolled or tamped to provide good contact between sod and soil. Irrigate sod and soil to a depth of 4' immediately after installation. Sod should not be cut or spread in extremely wet or dry weather.

Figure 6-28.6 Curb Inlet Filter "Pigs in Blanket" GSWCC 2016 Edition

8" CONCRETE BLOCKS WRAPPED IN FILTER FABRIC - CURB CURB APRON (GUTTER)

FILTER FABRIC WITH SUPPORTING FRAME

INLET SEDIMENT TRAP Sd2

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

STALL FILTER AFTER ANY

CATCH BASIN INLET. ACE OPENINGS IN BLOCKS DUTWARD. OUTWARD. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERTLOW TO PREVENT HAZARDOUS PONDING. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.

CATCH BASIN

A permanent vegetation using sods on highly erodible or critically eroded lands. CONDITIONS

This application is appropriate for areas which require immediate vegetative covers, drop inlets, grass swales, and waterways with intermittent flow .

DEFINITION

CONSTRUCTION SPECIFICATIONS INSTALLATION

Soil Preparation

Fertilizer Rate

Agricultural lime should be applied based on soil tests or at a rate of 1 to 2

Installation

Irrigation should be used to supplement rainfall for a minimum of 2-3 weeks.

DEFINITION The establishment of temporary vegetative cover with fast growing seedings for seasonal protection on

disturbed or denuded areas.

CONDITIONS Temporary vegetative measures should be

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

SPECIFICATIONS Grading and Shaping

Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others. No shaping or grading is required if slopes can be

stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

Seedbed Preparation When a hydraulic seeder is used, seedbed

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

Lime and Fertilizer

Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate determined by soil test for pH. Quick acting lime should be incorporated to modify pH during the germination period Bio stimulants should also be considered when there is less than 3%

organic matter in the soil. Graded areas require lime application. Soils must be tested to determine required amounts of fertilizer and amendments. Fertilizer should be applied before land preparation and incorporated with a disk, ripper, or chisel. On slopes too steep for, or inaccessible to equipment, fertilizer shall be

hydraulically applied, preferably in the first pass with seed and some hydraulic mulch, then topped with the remaining required application rate.

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

(WITH MULCHING) Ds1

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

needed

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

SEEDING RATES FOR TEMPORARY SEEDING

-	RATE Per	RATE Per	PLANTING
SPECIES	1,000 sq.n.	Acre *	DATES **
Rye	3.9 pounds	3 bu.	9/1-3/1
Ryegrass	0.9 pound	40 lbs.	8/15-4/1
Annual Lespodeza	0.9 pound	40 lbs.	1/15-3/15
Weeping Lovegrass	0.1 pound	4 lbs.	2/15-6/15
Sudangrass	4.4 pounds	60 lbs.	3/1-8/1
Browntop Millet	0.9 pound	40 lbs.	4/1-7/15
Wheat	4.4 pounds	Sbu.	10/15-2/1
Unusual site conditions may require heavier seeding rates			

** Seeding dates may need to be altered to fit temperture variations and conditions

DIST **STABIL** TEMPOR

MATERIALS

 Sod selected should be certified. is desirable. Sod should be machine cut and e or thatch. Sod should be cut to the desired :

be rejected. Sod should be cut and installed Avoid planting when subject to fi

available. The sod type should be shown on 6-6.2. See Figure 6-4.1 for your I

Table 6-6.2. Sod Planting Requires

Grass	Varieties	Resource Area	Crowing Season
Bermudagrass	Common Tifway Tifgreen Tiflawn	M-L,P,C P,C P,C P,C	Warm Weather
Bahiagrass	Pensacola	P,C	Warm Weather
Centipede	*	P,C	Warm Weather
St. Augustine	Common Bitterblue Raleigh	С	Warm Weather
Zoysia	Emerald Myer	P,C	Warm Weather
Tall Fescue	Kentucky	M-L,P	Cool Weather
MAINTENANCE			

· Re-sod areas where an adequate stand of sod is not obtained. New sod should be mowed sparingly. Grass height should not be cut less than 2'-3" or as specified. Apply one ton of agricultural lime as indicated by soil test or every 4-6 years.

Fertilize grasses in accordance with soil tests or Table 6-6.3. Table 6-6.3. Fertilizer Requirements for Sod

Types of Species	Planting Year	Fortilizer (N-P-K)	Rate (Ibs./acre)	Nitrogen Top Dressing Rate (Ibs./acre)
Cool	First	6-12-12	1500	50-100
Season	Second	6-12-12	1000	-
Grasses	Maintenance	10-10-10	400	30
Warm	First	6-12-12	1500	50-100
Season	Second	6-12-12	800	50-100
Grasses	Maintenance	10-10-10	400	30

DISTURBED AREA STABILIZATION

2 EAST BRYAN STREET, SUITE 501

rtilizer Bate

.025

Season

Fal

GSWCC CERTIFICATION NO. 0000012478 GSWCC LEVEL DESIGNER CRAIG R ZUCK

(WITH SODDING) Ds4

	BED AF TION (W SEEDI	REA /ITH NG) Ds:	2		
Sod gro contain \$ size with within \$6 rost beau	wn in the general a /4° ± 1/4° of soil, no hin ±5%. Torn or u hours of digging. e or hot weather if i	rea of the project t including shoots neven pads should irrigation is not			
n the plan Resource ments	as or installed acco a Area.	rding to Table			
si m y n n	Resource Area M-L ₆ P,C P,C P,C P,C	Growing Season Warm Weather			
ila	P,C	Warm Weather			
			I I I		4

SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL

SYSTEM

DEFINITION

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С

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

CONSTRUCTION SPECIFICATIONS Grading and Shaping

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

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

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

Lime and Fertilizer Rates and Analysis Agricultural lime is required at the rate of one to two

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

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

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

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

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

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

Lime and Fertilizer Application

When hydraulic seeding equipment is used, the initial fertilizer shall be mixed with seed, innoculant (if needed), and wood cellulose or wood pulp fiber mulch and applied in a slurry. The innoculant, if needed, shall be mixed with the seed prior to being placed into the hydraulic size. The slurry mixture will be agitated during application to keep the ingredients thoroughly mixed. The mixture will be spread uniformly over the area within one hour after being PLS = 56% placed in the hydroseeder.

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

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

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

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

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

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

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

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

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

Seed Quality

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

(PLS = % germination x % purity)

EXAMPLE: Common Bermuda seed

70% germination, 80% purity PLS = 70% germination x 80% purity

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

10 lbs. PLS/acre = 17.9 lbs/acre 56% PLS

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

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

- Tillage, at a minimum, shall adequately loosen the distributed and planted at the proper depth. soil to a depth of 4 to 6 inches: alleviate compaction; incorporate lime and fertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or plants; and allow for the anchoring of straw or hay mulch if a disk is to be used. Tillage may be done with any suitable
- equipment.

preparation will be done as follows:

Tillage should be done on the contour where feasible On slopes too steep for the safe operation of tillage equipment, the soil surface shall be pitted or trenched across the slope with appropriate hand tools to provide two places 6 to 8 inches apart in which seed may lodge

and germinate. Hydraulic seeding may also

be used.

Individual Plants

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

Innoculants

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

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

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

Hydraulic Seeding

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

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

Conventional Seeding

No-Till Seeding

Individual Plants

the ground surface.

per acre.

3/4:1 or steeper.

specifications.

6.

Mulching

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

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

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

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

Mulch is required for all permanent vegetation applications. Mulch applied to seeded areas shall achieve 75% to 100% soil cover. When selecting a mulch, design professionals should consider the mulch's functional longevity, vegetation establishment enhancement, and erosion control effectiveness. Select the mulching material from the following and apply as indicated:

> Dry straw or dry hay of good quality and free of weed seeds can be used. Dry straw shall be applied at the rate of 2 tons per acre. Dry hay shall be applied at a rate of 2 1/2 tons

Wood cellulose mulch or wood pulp fiber shall be used with hydraulic seeding. It shall be applied at the rate of 500 pounds per acre. Dry straw or dry hay shall be applied (at the rate indicated above) after hydraulic seeding. One thousand pounds of wood cellulose or wood pulp fiber, which includes a tackifier, shall be used with hydraulic seeding on slopes

Sericea Lespedeza hay containing mature seed shall be applied at a rate of three tons per acre. Pine straw or pine bark shall be applied at a thickness of 3 inches for bedding purposes. Other suitable materials in sufficient quantity may be used where ornamentals or other

ground covers are planted. This is not appropriate for seeded areas. When using temporary erosion control blankets or block sod, mulch is not required.

Bituminous treated roving may be applied on be applied within 24 hours after an area has been listed in Table 6-5.1. planted. Application rates and materials must meet Georgia Department of Transportation

Wood cellulose and wood pulp fibers shall not contain germination or growth inhibiting factors. They shall be evenly dispersed when agitated in size. The fibers shall contain a dye to allow visual metering and aid in uniform application during seeding.

Straw or hay mulch will be spread uniformly within 24 hours after seeding and/or planting. The mulch may be spread by blower-type spreading equipment, other spreading equipment or by hand. Mulch shall be applied to cover 75% of the soil surface.

Wood cellulose or wood fiber mulch shall be applied uniformly with hydraulic seeding equipment.

Anchoring Mulch Anchor straw or hay mulch immediately after application by one of the following methods:

- Hay and straw mulch shall be pressed into the soil immediately after the mulch is spread. A special "packer disk" or disk harrow with the disks set straight may be used. The disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disks shall be dull enough to press the mulch into the ground without cutting it, leaving much of it in an erect position. Mulch shall not be plowed
- into the soil. Synthetic tackifiers, binders or hydraulic mulch 2. specifically designed to tack straw, shall be applied in conjunction with or immediately after the mulch is spread. Synthetic tackifiers shall be mixed and applied according to manufacturer's specifications. All tackifiers, binders or hydraulic mulch specifically designed to tack straw should be verified nontoxic through EPA 2021.0 testing. Refer to Tackifiers-Tac.
- Rye or wheat can be included with Fall and Winter plantings to stabilize the mulch. They shall be applied at a rate of one-quarter to one-half bushel per acre. Plastic mesh or netting with mesh no larger
- than one inch by one inch may be needed to anchor straw or hay mulch on unstable soils and concentrated flow areas. These materials shall be installed and anchored according to manufacturer's specifications.

Bedding Material

Mulch is used as a bedding material to conserve moisture and control weeds in nurseries, ornamental beds, around shrubs, and on bare areas on lawns.

MaterialDepthGrain straw4" to 6" Grass Hay 4" to 6" Pine needles 3" to 5" Wood waste 4" to 6"

Irrigation will be applied at a rate that will not cause

Topdressing

Topdressing will be applied on all temporary and planted areas, slopes, in ditches or dry waterways permanent (perennial) species planted alone or in mixtures to prevent erosion. Bituminous treated roving shall with other species. Recommended rates of application are

> Second Year and Maintenance Fertilization Second year fertilizer rates and maintenance

fertilizer rates are listed in Table 6-5.1.

Lime Maintenance Application Apply one ton of agricultural lime every 4 to 6 years or as indicated by soil tests. Soil tests can be conducted to determine more accurate requirements, if desired.

Use and Management Mow Sericea Lespedeza only after frost to ensure that the seeds are mature. Mow between November and March.

Bermudagrass, Bahiagrass and Tall Fescue may be mowed as desired. Maintain at least 6 inches of top growth under any use and management. Moderate use of top growth is beneficial after establishment.

Exclude traffic until the plants are well established. Because of the quail nesting season, mowing should not take place between May and September.

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

0-10-10 1000 lbs./ac. 0-10-10 400 lbs./ac.

Apply in spring following seeding.
 Apply in split applications when high rates are used.
 Apply in 3 split applications.

Second Maintenance

4/ Apply when plants are pruned.

grasses and legumes

Apply to grass species only. 6/ Apply when plants grow to a height of 2 to 4 inches.

	<form></form>	able 6-5.2- Permanent Cow											
		LANT, PLANTING RATE A	er Crops				Table 6-5.2- Permanent Co	over Crops					
		pecies	ND PLANTING DATE FOR Broadcast Rates	Resource Area ³	Planting Dates by Resource	e Area Remarks	PLANT, PLANTING RATE,	AND PLANTING DATE	FOR PERMANE	NT COVER 1			
			Pure Liv	8	Solid lines indicate optimum dates, dotte permissible but marginal dat	d lines indicate	Species	Broad cast Rate	es Area ³	Planting D	ates by Resource Area	Rem	arks
<form></form>		AIDENCANE anicum hemitomon	Seed (PL Rate Per Acre? Per 1000	sqft	J F M A M J J A S		FESCUE, TALL	Pur Seed Rate Per Acre? Per 1	re Live d (PLS) 1000 sqft	J F M A M	J J A S O	N D	
<form></form>		origs ANICGRASS, ATLANTIC	2' x 3' spacing ALL			For very wet sites. May dog channels. Dig sprigs from local sources. Use along river banks and shorelines.	Festuca anundinacea alone	50 lbs 1.	.1 lb M-L			227,000 seed per pour better sites. Mix with p or Crownvetch. Apply	nd. Use alone only on erennial lespededza topdressing in spring
<form></form>		nicum amarum var harukum				Grows well on coastal sand dunes, borrow areas, and gravel bits. Provides whater course	with other perennials KUDZU Pueraria thum bergiana	30 lbs 0.	.7 lb			areas or athletic fields.	HUL OF HEAVY USE
		ED CANARY GRASS nalaris arundinacea	20 lbs 0.5 lb	PC		for wildlife. Mix with Sericea lespedeza except on sand dunes.	Plants or crowns LESPEDEZA SERICEA	3' - 7' apart	ALL			Rapid and vigorous gro gully erosion control. V livestock forage.	owth. Excellent in Mill climb. Good
		te to other perrenials NFLOWER, 'AZTEC' XIMILLIAN footbook	50 lbs 1.1 lb 30 lbs 0.7 lb	M-L P		Grows similar to Tall fes cue	Lespedeza cuneata	60 lbs 1.	M-L P .4 lb C			350,000 seed per pour Low maintenace. Mix w rass, Common bermud	nd. Widely adapted. vith Weeping loveg- a, bahia, or tall
		Reduce seeding rates to	10 lbs 0.2 lb	M-L P C		227,000 seed per pound. Mix with Weeping lovegrass or other low-grwoing grasses or legumes.	unscarified	75 lbs 1.	.7 lb C			rescue. Takes 2 to 3 ye established. Excellent of late seed with EL inocu Mix with Tall fesue or w	on roadbanks, Inocu- ilant. vinter an nuals.
<form></form>		¹ LS is an abbreviation fr ¹ LS is an abbreviation fr ¹ -L represents to Mount epresents the Southern represents the Southern	for Pure Live Seed. Refe tain; Blue Ridge; and Rid n Piedmont MLRA Coastal Plain; Sand Hills;	r to Section Iges and Va Black Land:	V.E. of these specifications. lleys MLRAs s;and Atlantic Coast Flatwoods	MLRAs. See Figure 6-4.1	seed- bearing hay	3 tons 13	M-L P 38 lbs C			Cut when seed mixture fore, it shatters. Add Ta annuals.	e is mature, but be- all fescue or winter
		able 6-5.2- Permanent Cov LANT, PLANTING RATE, A	Ver Crops	R PERMANE Resource	NT COVER 1		Table 6-5.2- Permanent Cou PLANT, PLANTING RATE, /	AND PLANTING DATE I	FOR PERMANEN Resource	Planting Da	tes by Resource Area	Rem	arks
		pecies	Broadcast Rates	Area	Planting Dates by Resource Solid lines indicate optimum dates, dom permissible but marginal dis	zeArea Remarks	0,000			Solid lines indicate op	timum dates, dotted lines in le but marginal dates.	dicate	
		HIA, PENSACOLA	Pure Li Seed (P Rate Per Acre ² Per 1000	ve LS) sqft	J F M A M J J A S	<u>s o n d</u>	LESPEDEZA	Pure Seed Rate Per Acre ² Per 10	e Live I (PLS) 000 sqft	J F M A M	O Z A L L		
		one or with temporary ver th other perennials	60 lbs 1.4 lbs	P		166,000 seed per pound. Low growing. Sod forming. Slow to establish. Plant with a companion crop. Will spread nto bermuda pastures and awns. Mk with Seriosa lespe-	Ambro virgata Lespedeza virgata DC or Appalow Lespedeza cuneata						
		HIA, WILMINGTON spalum notatum	30 lbs 0.7 lb	C		deza or weeping lovegrass.	(Dumont) G. Don)	60 lbs 1.4	4 lb P			300,000 seed per pound 18 to 24 inches. Advant	d. Height of growth is lageous in urban ar- with New consult be
		h other perennials RMUDA, COMMON nodon dactvion	60 lbs 1.4 lb 30 lbs 0.7 lb	M-L P		Same as above.			M-L P			or winter annuals. Do n lespedeza. Slow to deve	vith weeping loveg- , bahia, tall fescue ot mix with Sericea elop solid stands.
		lled seed	10 lbs 0.2 lb	PC		1.787,000 seed per pound. Quick cover, Low growing and sod forming. Full sun,	unscarified LESPEDEZA, SHRUB Lespedeza bicolor	75 lbs 1.	7 lb C			Inoculate seed with EL i	noculant.
		n omer perennials RMUDA, COMMON modon dactylon hulled seed	6 lbs 0.7 lt			Good for athletic fields.	plants	3, ×3,	M-L P C			Provide wildlife food and	d cover.
		n temporary cover n other perennials ble 6-5.2- Permanent Cov ANT, PLANTING PATE	10 lbs 0.2 lb 6 lbs 0.1 lb er Crops	PERMANE		Plant with Tail Fescue	LOVEGRASS, WEEPING Eragrostis curvula alone	4 lbs 0.	1 lb M-L P			1,500,000 seed per pou Drought tolerant. Grows	nd. Quick cover. well with Sericea
		ECIES	Broadcast Rates	Resource Area ³	e Planting Dates by Resourc	e Area Remarks	with other perennials	2 lbs 0.0	0110 C		+-1	lespedeza on roadbank	5.
			Pure Li Seed (Pi Rate Per Acre ² Per 1000	ve LS) sqft	J F M A M J J A	9 and							
		RMUDA SPRIGS nodon dactylon sastal, Common, Midland.	40 cu ft 0.9 cu ft or	M-L		A cubic foot contains approximately 650							
		Tift 44 astal, Common, of Tift 44	sod blugs 3, x3,	PC		sprigs. A bush el contains 1.25 cubic feet or approximately 800 springs. Same as above.							
		178 ENTIPEDE emochioa ophuiroides		C		Southern Coastal Plain only							
NATURE Image: Control of the state of			Block sod only	P C		Drought tolerant. Full sun or partial shade. Effective adjacent to concrete and in con- contrated flow areas. Imgaton is needed							
		OWNVETECH				unti fully established. Do not plant near pastures. Winterhardy as far as north Athens and Atlanta							
		- rrand v di la				100,000 seed per pound. Dense growth. Drought tolorant and fire resistant. Attractive	DIST	URBE	D A	REA	STAB		<u></u>
					PROJEC			ΓΙΕΙΩΑΤΙΩΝΙ					
					PROJEC CRAIG R. Z		GSWCC CERT NO. 0000	TIFICATION 012478					

PHONE: (912) 231-0044

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		<u>MECHANICAL & PLUMBING:</u> DULOHERY, WEEKS & GAGLIAN	IO, INC.	
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NOTES

PROJECT REFERENCE CRAIG R. ZUCK, PE MOFFATT & NICHOL SAVANNAH, GA 31401 PHONE: (912) 231-0044

<u>NOTES</u>

- 1. STADIUM AND TRACK DESIGN BY OTHERS. REFER TO CHA STADIUM AND TRACK PAVING, GRADING AND DRAINAGE PLAN DESIGN.
- 2. STORM DRAINAGE OUTLET PROTECTION. SEE SHEET CE501 FOR SIZE AND DIMENSIONS.
- 3. FOR CONCRETE FLARED END SECTIONS (FES), SEE DETAIL C1 ON SHEET CG501.
- 4. FOR STANDARD PRECAST CONCRETE MANHOLE (SDMH), SEE DETAIL C2 ON SHEET CG501.
- 5. FOR GRATE INLET (GI), SEE DETAIL C3 ON SHEET CG501.
 6. FOR YARD INLETS (YI) SEE DETAIL A4 ON
- FOR YARD INLETS (YI), SEE DETAIL A4 ON SHEET CG501.
 FOR POOE REALMACE CONNECTION OFF
- FOR ROOF DRAINAGE CONNECTION, SEE DETAIL A4 ON SHEET CG502.
 FOR TRENCH DRAIN, SEE DETAIL A2 ON
- 8. FOR TRENCH DRAIN, SEE DETAIL A3 ON SHEET CG503.
- 9. DOWNSPOUT LEADERS SHALL BE 12" ADS HPP PIPE THAT CONNECT TO 6" x 6" DOWNSPOUT ADAPTER. SEE DETAIL B3 ON SHEET CG501.
- 10. ALL CURB AND GRATE INLETS IN OR ADJACENT TO PAVEMENT SHALL HAVE 50 LF OF 6" SUBGRADE DRAIN WITH SOCK IN TWO DIRECTIONS. SEE A4 ON SHEET CG503.

<u>LEGEND</u>

- HEAVY DUTY CONCRETE PAVEMENT
- LIGHT DUTY ASPHALT PAVEMENT
- CONCRETE SIDEWALK
- TC: 23.32 GRADES BY M&N
- TC: 23.32 GRADES BY CHA
- EG: 23.32 EXISTING GRADES FROM SURVEY

YARD INLET NUMBER	SIZE OF TOP	LOCKING LID
YI - 14-12	12" TOP	YES
YI - 12A	12" TOP	YES
YI - 2-39	12" TOP	YES
YI - 39A	12" TOP	YES
YI - 39B	12" TOP	YES
YI - 39D	12" TOP	YES

SCALE: 1"=20'

SAVANNAH-CHATHAM

CHECKED BY: CRZ

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- 1. ATHLETIC FIELD DESIGN BY OTHERS. REFER TO CHA PLAN AND DETAIL SHEETS.
- 2. FOR STANDARD PRECAST CONCRETE MANHOLE (SDMH), SEE DETAIL C2 ON SHEET CG501.
- 3. FOR GRATE INLET (GI), SEE DETAIL C3 ON SHEET CG501.
- 4. FOR CONFLICT MANHOLE, SEE DETAIL C3 ON SHEET CU501.
- 5. ALL CURB AND GRATE INLETS IN OR ADJACENT TO PAVEMENT SHALL HAVE 50 LF OF 6" SUBGRADE DRAIN WITH SOCK IN TWO DIRECTIONS. SEE A4 ON SHEET CG503.
- 6. CONSTRUCT BASEBALL POND AND DRAINAGE SYSTEM BEFORE FILLING IN EXISTING POND.

- HEAVY DUTY CONCRETE PAVEMENT
- LIGHT DUTY ASPHALT PAVEMENT
- CONCRETE SIDEWALK
- TC: 23.32 GRADES BY M&N
- TC: 23.32 GRADES BY CHA
- EG: 23.32 EXISTING GRADES FROM SURVEY

SCALE: 1"=20'

SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM SCCPSS

RFP C24-01 **GROVES ATHLETIC** FIELD & FIELDHOUSE

PROJECT CONSULTANTS: LANDSCAPE ARCHITECT: CLH DESIGN, P.A. <u>CIVIL ENGINEERS:</u> MOFFATT & NICHOL

CHA CONSULTING, INC.

<u>STRUCTURAL ENGINEER:</u> THARPE ENGINEERING GROUP, LLC <u>MECHANICAL & PLUMBING:</u> DULOHERY, WEEKS & GAGLIANO, INC.

321 WEST CONGRESS STREET SUITE 301 SAVANNAH, GEORGIA 31401 TEL. 912.695.2111 FAX 912.298.0206 WWW.LS3P.COM

05-30-2023

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		SAVANNAH-CHATHA COUNTY PUBLIC SCH SYSTEM	M IOOL
		SCCPS	SS
		REP C24-01	
	-	GROVES ATH	LETIC
		FIELDHOUSE	
		PROJECT CONSULTANTS: LANDSCAPE ARCHITECT:	
		CLH DESIGN, P.A. <u>CIVIL ENGINEERS:</u> MOFFATT & NICHOL CHA CONSULTING, INC.	
		STRUCTURAL ENGINEER: THARPE ENGINEERING GROUP	LLC
		DULOHERY, WEEKS & GAGLIAN	IO, INC.
		I C Z	D
	-	321 WEST CONGRESS STREE	T SUITE 301
		SAVANNAH, GEORGIA TEL. 912.695.2111 FAX WWW.LS3P.COM	31401 912.298.0206 M
			••••
		e ast BRYAN ST., ST	chol E 501
		• SAVANNAH, GA 314 • 912-231-0044	01
		EORG	
		♦ No. 031068	₹ *
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	P	RINTED OR ELECTRONIC DR OCUMENTATION MAY NOT B	AWINGS AND E REPRODUCED
	F	ROM LS3P ASSOCIATES LTD).
	No	REVISIONS:	Date
		PROJECT: 5201-19207 DATE: 05/30/2023	70
	(DRAWN BY: FAP CHECKED BY: CRZ	
1 -		PRUFILES	
		CG2	01

ALL HPP PIPE SHALL BE ADS HP STORM DUAL WALL - PP PIPE

BID SET

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IL CO	OMPONENTS BY DRY WEIGHT:	
	MEDIUM TO COARSE WASHED SAND:	75%-85%.
	FINES (SILT AND CLAY):	8%-10%.
	ORGANIC MATTER (SUCH AS PINE BARK FINES)	5%-10%

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	on the second of the second business. Letters of		and a stand of the second of		la bancer			1		SAVANNAH-CHATHAN COUNTY PUBLIC SCH	/ OOL
	NDED MI	NIMUM	TRENC	H WIDTI	HS					SYSTEM	
PIPE DI	AM. MIN	N. TREN	СН								
12" (300m	m) (30" (762mm)	į.							SCCPS	S
15" (375m	m) (34" (864mm)	Ê								
18"		39"	: :						Ļ	RFP C24-01	ETIC
(450m 24"	<u>m) (</u>	<u>991mm)</u> 48"	<u></u>							FIELD &	
(600m	<u>m) ('</u>	1219mm	<u> </u>							FIELDHOUSE	
(750m	m) (*	1422mm)								
(900m	m) ('	64" 1626mm)							PROJECT CONSULTANTS: LANDSCAPE ARCHITECT: CLH DESIGN. P.A.	
42" (1050m) ('	72" 1829mm								<u>CIVIL ENGINEERS:</u> MOFFATT & NICHOL	
48"		80"	(\neg)							CHA CONSULTING, INC. <u> STRUCTURAL ENGINEER:</u> THAPPE ENCINEEDING CROUP	
(1200m 60"	nm) (a	2032mm 96"	<u>, </u>						F	MECHANICAL & PLUMBING: DULOHERY. WEEKS & GAGLIANG	D. INC.
(1500m	nm) (#	2438mm)								- ,
IIMUM RE EHICLE L	COMME	NDED C	OVER E	BASED (N						D
S	URFACE	LIVE LO	OADING	CONDI	TION						
Į	H-25	F	IEAVY ((75T /			N					
	12"	2	(48"		0					
(3	05mm) 24"	_	(1219mm 60*)	-			Γ		
(6	10mm)		(1524mm)					321 WEST CONGRESS STREE SAVANNAH, GEORGIA TEL 912.695.2111 FAX 9	31401 312.298.0206
					VER DE #					WWW.LS3P.COM	
			3 FF 31			CLASS					
	050/		050/			IV OF N	;			······································	•••
21	90%	90%	85%	95%	90%	95%					• • •
(6.4m)	(8.5m)	(6.4m)	(4.9m)	(6.1m)	(4.9m)	(4.9m)			\vdash	2 EAST BRYAN ST., STE	
21	29	21	16	21	16	16	C.			912-231-0044	•
(6.4m)	(8.8m)	(6.4m)	(4.9m)	(6.4m)	(4.9m)	(4.9m)	5			••••••	••••••
(6.4m)	(9.1m)	(6.4m)	(4.9m)	(5.5m)	(4.3m)	(4.3m)				EORG	
15	21	15	11	16	11	11					▼ ★
(4.6m)	(6.4m)	(4.6m)	(3.4m)	(4.9m)	(3.4m)	(3.4m)	5			PROFESSIONA	
(5.8m)	(8.2m)	(5.8m)	(4.3m)	(5.8m)	(4.6m)	(4.3m)				P C POLINEER	T I
28	20	14	10	14	11	10				HONAL -	
(8.5m)	(6.1m)	(4.3m)	(3.0m)	(4.3m)	(3.4m)	(3.0m)	5			05-30-2023 MEMBERS OF THE AMERICAN INSTITU	UTE OF ARCHITEC
(4.3m)	21 (6.4m)	14 (4.3m)	(3.0m)	15 (4.6m)	(3.4m)	(3.0m)				COPYRIGHT 2018 ALL RIGH	ITS RESERVED
14	20	14	9	14	10	10					
(4.3m)	(6.1m)	(4.3m)	(2.7m)	(4.3m)	(3.0m)	(3.0m)				FROM LS3P ASSOCIATES LTD.	
14 (4.3m)	20 (6.1m)	14 (4.3m)	9 (2.7m)	14 (4.3m)	10 (3.0m)	9 (2.7m)					
NERATE	USING	AASHT	O SECT	ON 12,	LOAD		t.			o. Description	Date
DESIGN (I	_RFD) PI	ROCEDL	JRE WIT	THE	FOLLOW	VING					
SSURE (vs) = 120	PCF										
IGHTS	RWD	04/01/1	9					1		PROJECT: FOOT 1000	0
and a more than a more than	BY	MM/DD/	гү сн	КD						DATE: 05/30/2023	U
Brath James -	N. 20. 10. 10. 10. 1	and a stream of the					JAB	1		DRAWN BY: FAP CHECKED BY: CRZ	
	1	NC	4640 TP			01/	29/09	1	╞		
		A).	HILLIAR	D, OHIO 4	3026			4		GRADING DE	
ADVANCED D	WINAGE SYST	EMS, INC.					NTS OF 1				-
						<u> </u>		J			
											∪4

	TABLE 1.	RECOMME	NDED MI		TRENC		IS				COUNTY PU SYSTEM
				I. TREN	СН						
		12"		WIDTH							
		(300m	m) (762mm)							SC
		(375m	m) (34" 864mm)	¢.						
		18" (450m	-m) (39" 991mm)						-	RFP C2
		24		48"	<u></u>						FIELD
		(600m 30"	im) (1	1219mm 56"	2						
		(750m	im) (1	1422mm							
		(900m	im) (1	64" 1626mm							PROJECT CO LANDSCAPE AF CLH DESIGN, P.
		42" (1050m	om) (1	72" 1829mm							<u>CIVIL ENGINEER</u> MOFFATT & NIC
		48"		80"	<u> </u>						CHA CONSULTI
		(1200n 60"	nm) (2	2032mm 96"	,						MECHANICAL &
		(1500n	nm) (2	2438mm							,
	TABLE 2, M	IINIMUM RE		NDED C	OVER E	BASED C	N				(
		VEHICLE I		CONDI	TIONS						
<u> </u>		S	URFACE			CONDI	TION	1			
	PIPE DIAM.		H-25		(75T /	AXLE LC	AD)*	54- 5-			-
(00	12" - 48"		12"	í.		48"	•	0		L	
(30	<u>0mm - 1200mm</u> 60") (3	24"	_	(1219mm 60")	-			
	(1500mm)	(6	510mm)		([*]	1524mm)				SAVANN TEL. 912.695.2
* VEHI	TABLE 3	SS OF 751 1 MAXIMUM (COVER E			ORM DI	/EK DE fi				W
							с, п 20 Ш	CLASS			
	CLAS	51	L	LASS II		GLA	>> III	IV			•••
	COMPACTED	DUMPED	95%	90%	85%	95%	90%	95%			
12" Omm)	41 (12.5m)	21 (6.4m)	28 (8.5m)	(6.4m)	16 (4.9m)	20 (6.1m)	16 (4,9m)	16 (4.9m)			
15"	42	21	29	21	16	21	16	16			SAV
5mm)	(12.8m)	(6.4m)	(8.8m)	(6.4m)	(4.9m)	(6.4m)	(4.9m)	(4.9m)			
18" Omm)	44 (13.4m)	21 (6.4m)	30 (9.1m)	21 (6.4m)	16 (4.9m)	18 (5.5m)	14 (4.3m)	14 (4.3m)			1/1
24"	30	15	21	15	11	16	11	11			
0mm)	(9.1m)	(4.6m)	(6.4m)	(4.6m)	(3.4m)	(4.9m)	(3.4m)	(3.4m)			
30"	39	19	27	19	14	19	15	14			CAL
umm) 36"	(11.9m) 28	(5.8m) 28	(8.2m)	(5.8m)	(4.3m)	(5.8m)	(4.6M)	(4.3m)		-	
Omm)	(8.5m)	(8.5m)	(6.1m)	(4.3m)	(3.0m)	(4.3m)	(3.4m)	(3.0m)			: C
42"	30	14	21	14	10	15	11	10		Ν	MEMBERS OF THE A
50mm)	(9.1m)	(4.3m)	(6.4m)	(4.3m)	(3.0m)	(4.6m)	(3.4m)	(3.0m)			PRINTED OR ELE
48")0mm)	29 (8.8m)	14 (4.3m)	20 (6.1m)	14 (4.3m)	9 (27m)	14 (4.3m)	10 (3.0m)	10 (3.0m)		ľ	IN ANY FORM WI
60"	29	14	20	14	9	14	10	9			FROM LS3P ASS
)0mm)	(8.8m)	(4.3m)	(6.1m)	(4.3m)	(2.7m)	(4.3m)	(3.0m)	(2.7m)			REVISIONS:
FILL HI	EIGHT TABLE O	SENERATE		AASHT(D SECT	ION 12, I		VINC			o. Descr
ASSUN	APTIONS:	T DESIGIN (LKFDJPT	(UUEDU			FULLUY	VING			
NO HY	DROSTATIC PR	RESSURE									
	VEIGHT OF SOI	L (γs) = 120		10000000000	29	1			1		
REV. I	MAXIMUM COVER	HEIGHTS	RWD	04/01/1	9	_					PROJECT:
	DESCRIPTION		BY	MM/DD/Y	Y CH	KD					DRAWN BY: FAF
									29/09	L	CHECKED BY: C
INSTA	LLATION TOPM			N	4640 TR	UEMAN BI	LVD 3026				
(87 8		ADVANCED D		MS. NC		-1 -1 IV T			NTS		GRAD
S	[D-101D(EP)							1	OF 1		

	TABLE 1	RECOMME			TRENCI		HS			COUN	ITY PU EM
				I. TREN	СН	T MID I					
			IAM.	WIDTH							
		(300n	nm) (30" 762mm)).						<u>SC</u>
		(375n	" nm) (34" 864mm)	i i						
		18		39"							$^{\circ}$ C2
		(4500	<u>nm) (</u>	991mm) 48"	<u>k</u>						
		(600n	<u>nm) (1</u>	1219mm)					FIE	LDF
		(750n	nm) (1	422mm)						
		36 (900n	nm) (1	64" 1626mm	3					PROJI LANDS	
		42		72"	<u>,</u>					CLH DE <u>CIVIL E</u> MOEEA	ESIGN, P.
		48	<u>nm) (1</u>	80"	,					CHA CO STRUC	DNSULTI
		(1200)	<u>mm) (2</u>	2032mm)					THARP <u>MECH</u>	E ENGIN
		(1500)	mm) (2	96 2438mm)					DULOH	ERY, WE
			ECOMME		OVER B	ASED (N				(
		VEHICLE	LOADING	CONDI	TIONS						
<u></u>		1	SURFACE	LIVE L	OADING	CONDI	TION				
	PIPE DIAM.		H-25	H				N			
-	12" - 48"		12"		(/31/	48"	AD)				
(30	0mm - 1200mm) (305mm)		(1219mm	I)			F	
	60" (1500mm)	6	24" 610mm)		ľ	60" 1524mm	ň			321 WES م،	T CONC
* VEHI	CLES IN EXCE	SS OF 75T	MAY REC	UIREA		AL CO	VER			TEL. 9 [,]	12.695.2 W
	TABLE 3,	MAXIMUM	COVER F	OR ADS	S HP ST	ORM PI	PE, ft		i.		
	CLAS	SI	0	LASS I		CLA	SS III				•
PIPE DIA	COMPACTED	DUMPED	95%	90%	85%	95%	90%	95%			····
12"	41	21	28	21	16	20	16	16			moff
(300mm)	(12.5m)	(6.4m)	(8.5m)	(6.4m)	(4.9m)	(6.1m)	(4.9m)	(4.9m)	:		2 EAST
15" (375mm)	42 (12.8m)	21 (6.4m)	29 (9.9m)	21 (6 Am)	16 (4.9m)	21 (6 Am)	16 (4.9m)	16 (4.9m)			•••
18"	44	21	30	21	16	18	14	14	¢	•••	• • • • •
(450mm)	(13.4m)	(6.4m)	(9.1m)	(6.4m)	(4.9m)	(5.5m)	(4.3m)	(4.3m)		•	
24"	30	15	21	15	11	16	11	11			*
(600mm)	(9.1m) 20	(4.6m)	(6.4m)	(4.6m)	(3.4m)	(4.9m)	(3.4m)	(3.4m)	:	ţ	
(750mm)	(11.9m)	(5.8m)	(8.2m)	(5.8m)	(4.3m)	(5.8m)	(4.6m)	(4.3m)			AP C
36"	28	28	20	14	10	14	11	10			· · · · · ·
(900mm)	(8.5m)	(8.5m)	(6.1m)	(4.3m)	(3.0m)	(4.3m)	(3.4m)	(3.0m)	;	MEMBERS	C DE THE A
42" (1050mm)	30 (9.1m)	14 (4.3m)	21 (6.4m)	14 (4.3m)	10 (3.0m)	15 (4.6m)	$\frac{11}{(3.4m)}$	10 (3.0m)		COPYRIC	ЭНТ 20
48"	29	14	20	14	9	14	10	10	5		OR ELE
(1200mm)	(8.8m)	(4.3m)	(6.1m)	(4.3m)	(2.7m)	(4.3m)	(3.0m)	(3.0m)		IN ANY FO FROM LS	ORM WI
60"	29	14	20	14	9	14	10	9			
(1500mm)		(4.3m)	(6.1m)	(4.3m)	(2.7m)	(4.3m)	(3.0m)	(2.7m)		REVISIO	NS: Descr
RESIS	TANCE FACTO	R DESIGN	(LRFD) PF	ROCEDI	JRE WIT	H THE	FOLLOW	VING			
ASSU	MPTIONS:		•				(1 - 7 - 5) ² A ² - 1 - ²				
	DROSTATIC PH	$(v_s) = 120$	PCF								
REV		HEIGHTS	RWD	04/01/1	9						
	DESCRIPTION		BV	MM/DDA		CD				PROJECT DATE: 05	Г: 5/30/202
	DESCRIPTION		Bī								BY: FAF
								01/	29/09		
ATT. (HP S	TORM)			N	4640 TRI HILLIARI	UEMAN B D, OHIO 4	LVD 3026				
/		ADVANCED	KAINAGE SYSTE	MS, NC.		anatato (1399) – A	11 A		NTS		AD
IBER: S	TD-101D(EP)							1	OF 1		
											C
NII											

		1000
7	REV. MAXIMUM COVER HEIGHTS	J.
REV.	DESCRIPTION	Т

		1000 1000 1000 1000 1000 1000 1000 100				and a state of					1	0	
		TABLE 1,	RECOMME	NDED MI	NIMUM			IS					SYSTEM
			PIPE D			СН							and the second sec
			12"		30"	1							(SC
			(300rt	<u>im) (</u>	762mm) 34"	2						l	
			(375m) (m	(864mm)	i i							
			18" (450m	(m)	39" '991mm)							-	GROVE
			24"		48"	<u></u>							FIELD
			(600m	im) ('	1219mm	<u> </u>							FIELDH
			(750m	m) (1422mm	5							
			36"		64"								
			42"	<u>''') (</u>	72"	4							CLH DESIGN, P.
			(1050n	nm) ('	1829mm								MOFFATT & NIC CHA CONSULTI
			(1200n	nm) (2032mm							L	STRUCTURAL E
			60"		96"								MECHANICAL & DULOHERY, WE
			(1500n	nm) (a	2438mm	<u> </u>							_
		TABLE 2, M	INIMUM RE	COMME	NDED C	OVER B	ASED C	N					
			VEHICLE		CONDI	TIONS							
	<u></u>		S	SURFACE		DADING	CONDI	TION					
		PIPE DIAM.		H-25		1EAVY C							
	-	12" - 48"		12"	2	(/01/	48"	<i>(</i> , <u></u>)	0				
	(30	0mm - 1200mm)) (3	305mm)		(*	1219mm)				-	
OUND		60" (1500mm)	16	24" \$10mm)		1.	60" 1524mm	a.				3	321 WEST CON SAVANN
N,	* VEHI	CLES IN EXCES	SS OF 75T	MAY REC		ODITION	AL CO	/ER					TEL. 912.695.2 W
NS R OF	3	TABLE 3, I	MAXIMUM	COVER F	OR ADS	HP ST	ORM PI	PE, ft	5	5			
5 UF		CLASS	SI		CLASS II		CLA	SS III	CLASS				
97 		COMPACTED		059/	0.09/	059/	050/	0.09/	IV 05%				•••
ED.		COMPACIED	DUMPED	90%	90%	00%	90%	90%	95%				
IRED	(300mm)	(12.5m)	(6.4m)	(8.5m)	(6.4m)	(4.9m)	(6.1m)	(4.9m)	(4.9m)			\vdash	
ND	15"	42	21	29	21	16	21	16	16	c.			• SAV
ATERIAL.	(375mm)	(12.8m)	(6.4m)	(8.8m)	(6.4m)	(4.9m)	(6.4m)	(4.9m)	(4.9m)				•
FOR	18"	44	21	30	21	16	18	14	14	2			
тн	(450mm)	(13.4m)	(6.4m)	(9.1m)	(6.4m)	(4.9m)	(5.5m)	(4.3m)	(4.3m)				
DING	24" (600mm)	30 (9.1m)	15 (4.6m)	21 (6.4m)	15 (4.6m)	11 (3.4m)	16 (4 Qm)	(3.4m)	11 (3.4m)				
n)	30"	39	19	27	19	14	19	15	14	;			
VAL OF	(750mm)	(11.9m)	(5.8m)	(8.2m)	(5.8m)	(4.3m)	(5.8m)	(4.6m)	(4.3m)			L	The second se
V12777 - V2-830-9	36"	28	28	20	14	10	14	11	10				
	(900mm)	(8.5m)	(8.5m)	(6.1m)	(4.3m)	(3.0m)	(4.3m)	(3.4m)	(3.0m)	1		ME	
LSHALL	42"	30	14	21	14	10	15	11	10			C	COPYRIGHT 20
RIN		(9.1m) 20	(4.3m) 14	(0.4m) 20	(4.3m)	(3.0m)	(4.0m)	(3.4m)	(3.0m)			PF D(RINTED OR ELE
MITED	40 (1200mm)	(8.8m)	(4.3m)	(6.1m)	(4.3m)	(2.7m)	(4.3m)	(3.0m)	(3.0m)			IN	
1	60"	29	14	20	14	9	14	10	9				KUM 1938 A99
) FROM	(1500mm)	(8.8m)	(4.3m)	(6.1m)	(4.3m)	(2.7m)	(4.3m)	(3.0m)	(2.7m)			R	REVISIONS:
AFFIC	FILL H	EIGHT TABLE O	BENERATE	D USING	AASHTO	O SECTI	ON 12,	LOAD				No.	Descr
KED. m) OF	RESIS	TANCE FACTOR	R DESIGN (LRFD) PI	ROCEDL	JRE WIT	HTHE	FOLLOV	VING				
, 0.	NO HY	DROSTATIC PR	RESSURE										
	UNIT V	VEIGHT OF SOI	L (γs) = 120	PCF									
7	REV.	MAXIMUM COVER I	HEIGHTS	RWD	04/01/1	9						P	PROJECT:
REV.		DESCRIPTION		BY	MM/DD/	Y CH	CD					D	DATE: 05/30/202
38.90° ° 7.84° 6° 5.		o of the rest for the desired strates of a	- 1	41122556		1100				JAB		D C	ORAWN BY: FAI CHECKED BY: C
(TDD)		TTATION							01/	29/09		⊢ r	
DE	ап. (нр 9	TORM			A	4640 TRI HILLIARI	D, OHIO 4	3026	449 FM				DRAIN
	V		ADVANCED	RAINAGE SYST	EMS, NC.		ardd dei o'r defel a 19			NTS			GRAD
RAWING NUM	ABER: S	TD-101D(EP)							1	OF 1			
													ſ
	ΔΠ												

NOTE

HP STORM TRENCH INSTALLATION DETAIL


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				And the second s	
	18"	12"	39"		
	24"	12"	48"		
	30"	15"	56"	ENSURE BEDDING IS UNIFORM AND TRUE TO LINE AND GRADE. MIDDLE THIRD SHOULD BE LOOSE TO CRADLE PIPE.	EXTEND BEDDING AT LE BEYOND THE END OF TH INSTALLED.
	36"	18"	64"		and the second s
	42"	21"	72"		
	48"	24"	80"		
	60"	30"	96"	Sector And	
IDE ENOUGH TO FIT D COMPACTION	RECOMMEND WIDTHS, WHI FOUNDATION	DED MINIMUM T EN TRENCH WA I ARE STABLE. I	RENCH ALLS AND FOR	NOT GOOD	
	ADDITIONAL REFER TO AE STANDARDS	TRENCH WIDTH DS INSTALLATIC AND ASTM D23	I OPTIONS DN 21.	TRENCH SHOULD BE DRY OR PROPERLY DEWATERED BEFORE PLACING BEDDING AND BACKFILL.	IF STONE OR ANY OPEN MATERIAL IS USED, WR A MIN. 6 OUNCE NON-W
TRENCH WIDT	H RECOM	IMENDAT	IONS	STEP 3 : PREPARATION	OF BEDDING MA
				A CONTRACTOR OF	

COVER FOR ADS HP STORM PIPE (FT)				
CLASS II		CLASS III		
95% SPD	90% SPD	95% SPD	90% SPD	
28	21	20	16	
29	21	21	16	
30	21	22	17	
26	18	19	14	
27	19	19	15	
20	14	14	11	
21	14	15	11	
20	14	14	10	
20	14	14	10	

,		
	ASTM D2321 SOIL CLASS ¹	
2		
	CLASS I ²	ANGULAF 100% PAS ≤15% PAS ≤25% PAS ≤12% PAS ALL PART
	CLASS II	CLEAN, C "GP", OR A SYMPOLS
	CLASS III	COARSE "SM", "SC THESE S SIEVE; "C ONE OF T #200 SIEV
	¹ SEE ASTM D2321 FOR ADD	ITIONAL GUIDA
	² IT IS HIGHLY RECOMMENT THROUGH VOIDS IN THE B/	DED TO WRAP ⁻ ACKFILL.
	BACKFILL AROUND PI WRITING BY THE PRC	PE SHALL M DJECT DESIG

E TABLE 2 FOR MINIMUM COVER QUIREMENTS FOR TYPICAL INSTRUCTION EQUIPMENT.							
ER TOP OF PIPE							
TEMPORARY MINIMUM COVER HEIGHTS (in)							
CLASS I COMPACTED	CLASS II @ 95% SPD	CLASS II @ 90% SPD	CLASS III @ 95% SPD	CLASS 90%			

ING OR UNSTABLE SOIL OVER THE PIPE. ADDITIONAL RUCTURAL INTEGRITY.
FLOTATION NOTES:
THE PIPE IS ASSUMED TO BE EMPTY WITH
GROUNDWATER TO THE GRADE SURFACE AND
SATURATED SOIL DENSITY OF 130 PCF. IF THE PIPE

<image/>	DRAWN: JLM DATE: 08/20/17 REVISION: 1 DWG NO: STD-1301B	NOT TO SCALE	ON SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE : DOCUMENT. IT IS THE SITE DESIGN ENGINEER'S RESPONSIBILITY TO
<page-header>REPRUSH TO LIGHTLY LUBRICATE INSIDE THE BELL. CLEAR EXEMOVE PLASTIC WRAP FROM GASKET. DO NOT ALLOW INTO TOUCH DIRT OR BACKFILL. CES SPIGOT INTO BELL. USING STRAP OR PUSH PIECE, FULLY DELL. WHEN LEADING BELL EDGE TOUCHES "HOME" MARK TED. INSIDE JOINT GAPS SHOULD BE TIGHT ON ALL SIDES. TO ROTT TOLERANCE</page-header>	HP STORM INSTALLATION GUIDE	PIPE MUST BE INSTALLED IN ACCORDANCE WITH ASTM D2321, IN ADDITION TO ALL SITE CONDITIONS REQUIRED BY STATE AND LOCAL CODES, INDUSTRY STANDARDS AND GUIDELINES, MANUFACTURER'S INSTALLATION RECOMMENDATIONS, OSHA, AND ALL APPLICABLE LAWS.	T PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATI THE SITE DESIGN ENGINEER. THE SITE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION AND SEALING THE AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.
& GROUT CONNECTION TO STRUCTURE ASTM D2487 SOIL GROUP ^{1,2} AASHTO M145 SOIL GROUP ^{1,2} STONE BACKFILL LAR CRUSHED ROCK, WITH	Curs Stor M	HIGH PERFORMANCE	ERENCED STANDARDS. ADS HAS NO PLANS ARE SIGNED AND SEALED BY L, STATE, OR LOCAL REQUIREMENTS
LAIN OR USITED ROUCH, WITH PASSING 1-1/2 IN. SIEVE PASSING 3/8 IN. SIEVE PASSING #200 SIEVE ARTICLE SURFACES SHALL BE FRACTURED. GRAVEL AND SAND BACKFILL GRAVEL AND SAND BACKFILL ARTICLE SURFACES SHALL BE FRACTURED. GRAVEL AND SAND BACKFILL ARTICLE SURFACES SHALL BE FRACTURED. GRAVEL AND SAND BACKFILL ARTICLE SURFACES SHALL BE FRACTURED. GRAVEL AND SAND BACKFILL ARTICLE SURFACES SHALL BE FRACTURED. GRAVEL AND SAND BACKFILL ARTICLE SURFACES SHALL BE FRACTURED. GRAVEL AND SAND BACKFILL ARTICLE SURFACES SHALL BE FRACTURED. GRAVEL AND SAND BACKFILL ARTICLE SURFACES SHALL BE FRACTURED. GRAVEL AND SAND BACKFILL ARTICLE SURFACES SHALL BE FRACTURED. ARTICLE SURFACES SHALL BE FRACTURED. ARTICLE SURFACES SHALL BE FRACTURED. ARTICL SURFACES SHALL BE FRACTURED. ARTICLE SURFACES SUITH FINES SE GRAINED SOILS WITH FINES SUR	4640 TRUEMAN BLVD HILLIARD. OH 43026	DVANCED DRAINAGE SYSTEMS, INC.	NNAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON REFI MMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT, UNLESS THE F ETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL
3 : BACKFILL CLASSIFICATIONS	SHE 1 OI	= ` ET - 1	ADVANCED DR GENERAL RECC ENSURE THE DE

SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL
SCCPSS
- RFP C24-01 GROVES ATHLETIC FIELD & FIELDHOUSE
PROJECT CONSULTANTS: LANDSCAPE ARCHITECT: CLH DESIGN, P.A.
CIVIL ENGINEERS: MOFFATT & NICHOL CHA CONSULTING, INC.
<u>MECHANICAL & PLUMBING:</u> DULOHERY, WEEKS & GAGLIANO, INC.
LSJP
321 WEST CONGRESS STREET SUITE 301 SAVANNAH, GEORGIA 31401 TEL. 912.695.2111 FAX 912.298.0206 WWW.LS3P.COM
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- PONALU 05-30-2023
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CHECKED BY: CRZ DRAINAGE & GRADING DETAILS





2

NOTES

- ALL PAVEMENT DIMENSIONS TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- CONTRACTOR TO VERIFY BUILDING FOOTPRINT EXIT PORCHES, TRUCK DOCKS, PLAYGROUNDS, ATHLETIC FIELDS & STRUCTURES WITH ARCHITECTURAL PLAN.
- 3. REFER TO ARCHITECTURAL PLANS FOR SITE LIGHTING.
- 4. STADIUM, TRACK & FIELD DESIGN BY OTHERS. REFER TO CHA STADIUM, TRACK & FIELD SITE PLAN DESIGN.

LEGEND

- HEAVY DUTY CONCRETE PAVEMENT
 - LIGHT DUTY ASPHALT PAVEMENT
 - CONCRETE SIDEWALK

KEY NOTE

- 1 6' CHAIN LINK FENCE, SEE DETAIL C4 SHEET CS502
- 2 ORNAMENTAL DOUBLE SWING GATE, SEE ARCHITECTURAL SITE PLAN
- (3) SIDEWALK, SEE DETAIL C1 SHEET CS502
- (4) 18" CURB & GUTTER, SEE DETAIL A2 SHEET CS501
- (5) BOLLARD SEE DETAIL A5 SHEET CS501
- (6) CURB CUT RAMP, SEE DETAIL A1 SHEET CS502
- 7 LIGHT DUTY ASPHALT PAVEMENT SEE DETAIL C5 SHEET CS501
- 8 DUMPSTER LOCATION
- 9 HEAVY DUTY CONCRETE PAVEMENT SEE DETAIL B5 SHEET CS501
- (10) WHEEL STOP SEE DETAIL B2 SHEET CS501
- 11 RETAINING WALL WITH HANDRAIL,
- SEE ARCHITECTURAL SITE PLAN
- (12) CONCRETE FLUME SEE DETAIL A1 SHEET CS501
- (13) SWING GATE, CHAIN LINK/DECORATIVE, SEE ARCHITECTURAL SITE PLAN
- 14) DOUBLE SWING GATE WITH KNOX PADLOCK SEE DETAIL D4 SHEET CS502
- TRANSITION FROM 18" CURB & GUTTER TO 30" CURB & GUTTER
- (16) MATCH EXIST CURB / PAVEMENT / SIDEWALK (17) TRANSFORMER PAD
- 18 SCREEN WALL SEE ARCHITECTURAL PLANS FOR DETAILS
- (19) GENERATOR PAD
- 20 BUILDING SETBACK PER GOVERNING AUTHORITY CODE.
- (21) FEATHERING OF CURB, SEE DETAIL B4 SHEET CS501
- (22) GDOT STD 9032B, TYPE 2 CONCRETE HEADER CURB, SEE DETAIL C1 ON SHEET CS501
- 23) ADA HANDICAP RAMP, SEE DETAIL A2 ON CG401
- ORNAMENTAL FENCE, SEE ARCHITECTURAL PLANS



SCALE: 1"=20'



PROJECT: 5201-192070 DATE: 05/30/2023 DRAWN BY: FAP

CHECKED BY: CRZ







Q:\SV\10797 GROVES K-12\600 CADD_ACTIVE_CIVIL\P FIELDHOUSE-ATHLETICS\10797CS-SITE PLAN.DWG

<u>NOTES</u>

- 1. ALL PAVEMENT DIMENSIONS TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 2. CONTRACTOR TO VERIFY BUILDING FOOTPRINT EXIT PORCHES, TRUCK DOCKS, PLAYGROUNDS, ATHLETIC FIELDS & STRUCTURES WITH ARCHITECTURAL PLAN.
- 3. REFER TO ARCHITECTURAL PLANS FOR SITE LIGHTING.
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LEGEND

- HEAVY DUTY CONCRETE PAVEMENT
 - LIGHT DUTY ASPHALT PAVEMENT
- CONCRETE SIDEWALK

KEY NOTE

- 1 6' CHAIN LINK FENCE, SEE DETAIL C4 SHEET CS502
- 2 ORNAMENTAL DOUBLE SWING GATE, SEE ARCHITECTURAL SITE PLAN
- 3 SIDEWALK, SEE DETAIL C1 SHEET CS502
- (4) 18" CURB & GUTTER, SEE DETAIL A2 SHEET CS50"
- 5 BOLLARD SEE DETAIL A5 SHEET CS501
- (6) CURB CUT RAMP, SEE DETAIL A1 SHEET CS502
- 7 LIGHT DUTY ASPHALT PAVEMENT SEE DETAIL C5 SHEET CS501
- 8 DUMPSTER LOCATION
- 9 HEAVY DUTY CONCRETE PAVEMENT SEE DETAIL B5 SHEET CS501
- (10) WHEEL STOP SEE DETAIL B2 SHEET CS501
- (1) RETAINING WALL WITH HANDRAIL, SEE ARCHITECTURAL SITE PLAN
- (12) CONCRETE FLUME SEE DETAIL A1 SHEET CS501
- (13) SWING GATE, CHAIN LINK/DECORATIVE, SEE ARCHITECTURAL SITE PLAN
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- (18) SCREEN WALL SEE ARCHITECTURAL PLANS FOR DETAILS
- (19) GENERATOR PAD
- (20) BUILDING SETBACK PER GOVERNING AUTHORITY CODE.
- (21) FEATHERING OF CURB, SEE DETAIL B4 SHEET CS501
- (22) GDOT STD 9032B, TYPE 2 CONCRETE HEADER CURB, SEE DETAIL C1 ON SHEET CS501
- (23) ADA HANDICAP RAMP, SEE DETAIL A2 ON CG401
- ORNAMENTAL FENCE, SEE ARCHITECTURAL PLANS



SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM SCCPSS RFP C24-01 **GROVES ATHLETIC** FIELD & FIELDHOUSE **PROJECT CONSULTANTS:** LANDSCAPE ARCHITECT: CLH DESIGN, P.A. CIVIL ENGINEERS: MOFFATT & NICHOL CHA CONSULTING, INC. <u>STRUCTURAL ENGINEER:</u> THARPE ENGINEERING GROUP, LLC MECHANICAL & PLUMBING: DULOHERY, WEEKS & GAGLIANO, INC.

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PF	ROJECT: 5201-1920	70			
DA	ATE: 05/30/2023				
DF	RAWN BY: FAP				
CH	IECKED BY: CRZ				
_		i			
	SITE PLAN				

CS103





- 2. CONTRACTOR TO VERIFY BUILDING FOOTPRINT EXIT PORCHES, TRUCK DOCKS, PLAYGROUNDS,
- REFER TO ARCHITECTURAL PLANS FOR SITE
- 4. STADIUM, TRACK & FIELD DESIGN BY OTHERS. REFER TO CHA STADIUM, TRACK & FIELD SITE

- HEAVY DUTY CONCRETE PAVEMENT



FIELD & FIELDHOUSE

PROJECT CONSULTANTS: LANDSCAPE ARCHITECT: CLH DESIGN, P.A. CIVIL ENGINEERS: MOFFATT & NICHOL

CHA CONSULTING, INC.

<u>STRUCTURAL ENGINEER:</u> THARPE ENGINEERING GROUP, LLC MECHANICAL & PLUMBING: DULOHERY, WEEKS & GAGLIANO, INC

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NOTES 1. ALL PAVEMENT DIMENSIONS TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. 2. CONTRACTOR TO VERIFY BUILDING FOOTPRINT EXIT PORCHES, TRUCK DOCKS, PLAYGROUNDS, ATHLETIC FIELDS & STRUCTURES WITH ARCHITECTURAL PLANS 3. REFER TO ARCHITECTURAL PLANS FOR SITE LIGHTING. 4. STADIUM, TRACK & FIELD DESIGN BY OTHERS. REFER TO CHA STADIUM, TRACK & FIELD SITE PLAN DESIGN. LEGEND Image: Plan Plan Image: Plan Image:	<image/> <section-header><section-header></section-header></section-header>
 KEY NOTE 1 6' CHAIN LINK FENCE, SEE DETAIL C4 SHEET CS502 2 ORNAMENTAL DOUBLE SWING GATE, SEE ARCHITECTURAL SITE PLAN 3 SIDEWALK, SEE DETAIL C1 SHEET CS502 4 18" CURB & GUTTER, SEE DETAIL A2 SHEET CS501 5 BOLLARD SEE DETAIL A5 SHEET CS501 6 CURB CUT RAMP, SEE DETAIL A1 SHEET CS502 7 LIGHT DUTY ASPHALT PAVEMENT SEE DETAIL C5 SHEET CS501 8 DUMPSTER LOCATION 9 HEAVY DUTY CONCRETE PAVEMENT 	STRUCTURAL ENGINEER: THARPE ENGINEERING GROUP, LLC MECHANICAL & PLUMBING: DULOHERY, WEEKS & GAGLIANO, INC.
 SEE DETAIL B5 SHEET CS501 (1) WHEEL STOP SEE DETAIL B2 SHEET CS501 (1) RETAINING WALL WITH HANDRAIL, SEE ARCHITECTURAL SITE PLAN (12) CONCRETE FLUME SEE DETAIL A1 SHEET CS501 (13) SWING GATE, CHAIN LINK/DECORATIVE, SEE ARCHITECTURAL SITE PLAN (14) DOUBLE SWING GATE WITH KNOX PADLOCK SEE DETAIL D4 SHEET CS502 (15) TRANSITION FROM 18" CURB & GUTTER TO 30" CURB & GUTTER (16) MATCH EXIST CURB / PAVEMENT / SIDEWALK (17) TRANSFORMER PAD (18) SCREEN WALL SEE ARCHITECTURAL PLANS FOR DETAILS 	321 WEST CONGRESS STREET SUITE 301 SAVANNAH, GEORGIA 31401 TEL. 912.695.2111 FAX 912.298.0206 WWW.LS3P.COM
 (19) GENERATOR PAD (20) BUILDING SETBACK PER GOVERNING AUTHORITY CODE. (21) FEATHERING OF CURB, SEE DETAIL B4 SHEET CS501 (22) GDOT STD 9032B, TYPE 2 CONCRETE HEADER CURB, SEE DETAIL C1 ON SHEET CS501 (23) ADA HANDICAP RAMP, SEE DETAIL A2 ON CG401 (24) ORNAMENTAL FENCE, SEE ARCHITECTURAL PLANS 	WILL WILL
PARKING SUMMARY EMPLOYEE PARKING 75 150 EMPLOYEES @ 1 PER 2 EMPLOYEES] 100 DARKING PASSES 100 TOTAL SPACES REQUIRED 175 STANDARD SPACES PROVIDED 171 TOTAL SPACES PROVIDED 171 TOTAL SPACES PROVIDED 171 Marking Passes 100 STANDARD SPACES PROVIDED 171 TOTAL SPACES PROVIDED 172 Marking Passes 101 Marking Passes 102 Marking Passes 102 STANDARD SPACES PROVIDED 172 Marking Passes 172	No. Description Date Date Project: 5201-192070 Date: 05/30/2023 Drawn BY: FAP CHECKED BY: CRZ

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<u>NOTE</u>

ALL PAVEMENT DIMENSIONS TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

LEGEND

- HEAVY DUTY CONCRETE PAVEMENT
- LIGHT DUTY ASPHALT PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE PANELS TO BE REINFORCED W/ #4 BARS @ 12" OC EW
- ---- CONTROL JOINT
- EXPANSION JOINT

ABBREVIATIONS

ISO JT TRANS JT LONG JT

ISOLATION JOINT TRANSVERSE JOINT LONGITUDINAL JOINT



RFP C24-01 GROVES ATHLETIC FIELD & FIELDHOUSE

PROJECT CONSULTANTS: <u>LANDSCAPE ARCHITECT:</u> CLH DESIGN, P.A. <u>CIVIL ENGINEERS:</u> MOFFATT & NICHOL CHA CONSULTING, INC.

STRUCTURAL ENGINEER: THARPE ENGINEERING GROUP, LLC <u>MECHANICAL & PLUMBING:</u> DULOHERY, WEEKS & GAGLIANO, INC.



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lo.	Description	Date

DATE: 05/30/2023 DRAWN BY: FAP CHECKED BY: CRZ





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	,
	SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL
	SYSTEM
	SCCPSS
	RFP C24-01
	PROJECT CONSULTANTS: <u>LANDSCAPE ARCHITECT:</u> CLH DESIGN, P.A.
	<u>CIVIL ENGINEERS:</u> MOFFATT & NICHOL
	CHA CONSULTING, INC. <u>STRUCTURAL ENGINEER:</u>
	THARPE ENGINEERING GROUP, LLC MECHANICAL & PLUMBING:
12.5MM SUPERPAVE SURFACE COURSE	DULOHERY, WEEKS & GAGLIANO, INC.
TACK COAT	
	_
7.0" COMPACTED GRANITE AGGREGATE BASE	321 WEST CONGRESS STREET SUITE 301
COURSE AT 100% MAXIMUM DRY DENSITY 24" SELECT FILL / IMPROVED SUBGRADE AT 98%	SAVANNAH, GEORGIA 31401 TEL. 912.695.2111 FAX 912.298.0206
SPECIFICATIONS)	WWW.LS3P.COM
$\begin{pmatrix} C5 \\ CS104 \end{pmatrix} = 1'-0"$	
CS105-	········
7" PORTLAND CEMENT	moffatt & nichol
	2 EAST BRYAN ST., STE 501 SAVANNAH, GA 31401
	912-231-0044
	• • • • • • •
	EORG
	¢ qt G(STERE) ▼
4.0" COMPACTED GRANITE AGGREGATE BASE	PROFESSIONAL
24" SELECT FILL / IMPROVED SUBGRADE AT 98%	HE WOINEER 15
SPECIFICATIONS)	RONALD
(B5) HEAVY DUTY CONCRETE CS102) SCALE: 3/4"= 1'-0"	05-30-2023
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	DATE: 05/30/2023 DRAWN BY: FAP
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- 1. CONTRACTOR SHALL REFER TO THE M.E.P. PLANS FOR THE EXACT LOCATION OF BUILDING UTILITY CONNECTIONS.
- 2. FOR PIPE BEDDING REQUIREMENTS SEE DETAIL C1, SHEET CU502
- 3. FOR JOINT RESTRAINTS SEE SHEET CU504
- 4. FOR MINIMUM WATER & SEWER PIPE SEPARATION REQUIREMENTS SEE DETAIL C5, SHEET CU505.
- 5. FOR SANITARY SEWER GENERAL NOTES SEE DETAIL C2, SHEET CU502.
- 6. FOR DOMESTIC WATER GENERAL NOTES SEE DETAIL C3, SHEET CU505.
- 7. FOR ALL DOMESTIC WATER FITTINGS, VALVES, WATER METERS, & OTHER ACCESSORIES GENERAL NOTES SEE C3, SHEET CU505.
- 8. ALL PROPOSED DOMESTIC & FIRE PROTECTION LINES SHALL BE EQUIPPED WITH BACKFLOW PREVENTION DEVICE.
- 9. AN ACCEPTED WATER SUPPLY FOR FIRE PROTECTION SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ARRIVES
- 10. ALL PVC GRAVITY SEWER SHALL BE ASTM 2241, SDR-26, GREEN IN COLOR.
- 11. ALL WATER MAINS SHALL BE AWWA C-900, DR-18 PRESSURE CLASS 235 PVC.
- 12. ALL WATER LATERALS SHALL BE POLYETHYLENE PE3408 SDR-9 CONFORMING TO ALL REQUIREMENTS OF AWWA C-901 & ASTM D-2737 LATEST REVISIONS.
- 13. ALL WATER MAIN THRUST RESTRAINT SHALL BE HANDLED BY USE OF JOINT RESTRAINT/MECHANICAL JOINTS EQUIVALENT TO EBAA IRON MEGA LUG OR PUSH-ON JOINT TYPE RESTRAINED JOINTS EQUAL TO "LOK-RING", "TR FLEX", OR "SUPER LOCK".
- 14. ALL VALVES 4" OR LARGER WILL BE IN MANHOLES.
- 15. ALL FITTINGS 2" OR LARGER SHALL BE DUCTILE IRON RESTRAINED JOINTS.
- 16. CONTRACTOR SHALL ACQUIRE UTILITY ROW ENCROACHMENT FOR WORK IN U.S. HWY 21.
- (1) STANDARD PRECAST CONCRETE MANHOLE, SEE DETAIL C1 SHEET CU501 SEE DETAIL C1 SHEET CU501
- 2 CONTRACTOR SHALL COORDINATE WITH SCCPSS PRIOR TO COMMENCING WORK ON THE DEEP WELL IRRIGATION SYSTEM AND PRIOR TO COMMENCING WORK ON THE WATER HARVESTING SYSTEM.
- RAIN HARVESTING SYSTEM, SEE DETAILS A4 & B1 SHEET CU505
- 4 FIRE SERVICE SYSTEM FOR BUILDINGS, SEE DETAIL C3 SHEET CU503
- 5 FIRE HYDRANT, SEE DETAIL A5 SHEET CU504
- 6 DOUBLE CHECK VALVE ASSEMBLY (FOR 3" AND LARGER) DOMESTIC SYSTEMS, SEE DETAIL C5
- SANITARY SEWER CLEANOUT, SEE DETAIL A5 SHEET CU502
- 8 VALVE MANHOLE FOR 4"-8" GATE VALVE, SEE DETAIL A3 SHEET CU503
- 9 WATER METER INSTALLATION 3" AND LARGER, SEE DETAIL C2 SHEET CU503
- (10) CONFLICT MANHOLE. SEE DETAIL C3 SHEET CU501





RFP C24-01 **GROVES ATHLETIC** FIELD & FIELDHOUSE

PROJECT CONSULTANTS: LANDSCAPE ARCHITECT: CLH DESIGN, P.A. CIVIL ENGINEERS: MOFFATT & NICHOL

CHA CONSULTING, INC.

STRUCTURAL ENGINEER: THARPE ENGINEERING GROUP, LLC MECHANICAL & PLUMBING: DULOHERY, WEEKS & GAGLIANO, IN

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CU101



<u>NOTES</u>

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- 3. FOR JOINT RESTRAINTS SEE SHEET CU504
- 4. FOR MINIMUM WATER & SEWER PIPE SEPARATION REQUIREMENTS SEE DETAIL C5, SHEET CU505.
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- 14. ALL VALVES 4" OR LARGER WILL BE IN MANHOLES.
- 15. ALL FITTINGS 2" OR LARGER SHALL BE DUCTILE IRON RESTRAINED JOINTS.
- 16. CONTRACTOR SHALL ACQUIRE UTILITY ROW ENCROACHMENT FOR WORK IN U.S. HWY 21.

KEY NOTES

- 1 STANDARD PRECAST CONCRETE MANHOLE, SEE DETAIL C1 SHEET CU501
- 2 CONTRACTOR SHALL COORDINATE WITH SCCPSS PRIOR TO COMMENCING WORK ON THE DEEP WELL IRRIGATION SYSTEM AND PRIOR TO COMMENCING WORK ON THE WATER HARVESTING SYSTEM.
- RAIN HARVESTING SYSTEM, SEE DETAILS A4 & B1 SHEET CU505
- 4 FIRE SERVICE SYSTEM FOR BUILDINGS, SEE DETAIL C3 SHEET CU503
- 5 FIRE HYDRANT, SEE DETAIL A5 SHEET CU504
- 6 DOUBLE CHECK VALVE ASSEMBLY (FOR 3" AND LARGER) DOMESTIC SYSTEMS, SEE DETAIL C5 SHEET CU503
- SANITARY SEWER CLEANOUT, SEE DETAIL A5 SHEET CU502
- 8 VALVE MANHOLE FOR 4"-8" GATE VALVE, SEE DETAIL A3 SHEET CU503
- 9 WATER METER INSTALLATION 3" AND LARGER, SEE DETAIL C2 SHEET CU503
- (10) CONFLICT MANHOLE. SEE DETAIL C3 SHEET CU501



SCALE: 1"=20'



RFP C24-01 GROVES ATHLETIC FIELD & FIELDHOUSE

PROJECT CONSULTANTS: LANDSCAPE ARCHITECT: CLH DESIGN, P.A. <u>CIVIL ENGINEERS:</u> MOFFATT & NICHOL

STRUCTURAL ENGINEER: THARPE ENGINEERING GROUP, LLC

CHA CONSULTING, INC.

<u>MECHANICAL & PLUMBING:</u> DULOHERY, WEEKS & GAGLIANO, INC



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R	EVISIONS:	
No.	Description	Date
P D D C	ROJECT: 5201-1920 ATE: 05/30/2023 RAWN BY: FAP HECKED BY: CRZ	70
	SEWER & WATER PLAN	N
	CU1	02



<u>NOTES</u>

- 1. CONTRACTOR SHALL REFER TO THE M.E.P. PLANS FOR THE EXACT LOCATION OF BUILDING UTILITY CONNECTIONS.
- 2. FOR PIPE BEDDING REQUIREMENTS SEE DETAIL C1, SHEET CU502
- 3. FOR JOINT RESTRAINTS SEE SHEET CU504
- 4. FOR MINIMUM WATER & SEWER PIPE SEPARATION REQUIREMENTS SEE DETAIL C5, SHEET CU505.
- 5. FOR SANITARY SEWER GENERAL NOTES SEE DETAIL C2, SHEET CU502.
- 6. FOR DOMESTIC WATER GENERAL NOTES SEE DETAIL C3, SHEET CU505.
- 7. FOR ALL DOMESTIC WATER FITTINGS, VALVES, WATER METERS, & OTHER ACCESSORIES GENERAL NOTES SEE C3, SHEET CU505.
- 8. ALL PROPOSED DOMESTIC & FIRE PROTECTION LINES SHALL BE EQUIPPED WITH BACKFLOW PREVENTION DEVICE.
- 9. AN ACCEPTED WATER SUPPLY FOR FIRE PROTECTION SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON SITE.
- 10. ALL PVC GRAVITY SEWER SHALL BE ASTM 2241, SDR-26, GREEN IN COLOR.
- 11. ALL WATER MAINS SHALL BE AWWA C-900, DR-18 PRESSURE CLASS 235 PVC.
- 12. ALL WATER LATERALS SHALL BE POLYETHYLENE PE3408 SDR-9 CONFORMING TO ALL REQUIREMENTS OF AWWA C-901 & ASTM D-2737 LATEST REVISIONS.
- 13. ALL WATER MAIN THRUST RESTRAINT SHALL BE HANDLED BY USE OF JOINT RESTRAINT/MECHANICAL JOINTS EQUIVALENT TO EBAA IRON MEGA LUG OR PUSH-ON JOINT TYPE RESTRAINED JOINTS EQUAL TO "LOK-RING", "TR FLEX", OR "SUPER LOCK".
- 14. ALL VALVES 4" OR LARGER WILL BE IN MANHOLES.
- 15. ALL FITTINGS 2" OR LARGER SHALL BE DUCTILE IRON RESTRAINED JOINTS.
- 16. CONTRACTOR SHALL ACQUIRE UTILITY ROW ENCROACHMENT FOR WORK IN U.S. HWY 21.

KEY NOTES

- 1 STANDARD PRECAST CONCRETE MANHOLE, SEE DETAIL C1 SHEET CU501
- 2 CONTRACTOR SHALL COORDINATE WITH SCCPSS PRIOR TO COMMENCING WORK ON THE DEEP WELL IRRIGATION SYSTEM AND PRIOR TO COMMENCING WORK ON THE WATER HARVESTING SYSTEM.
- RAIN HARVESTING SYSTEM, SEE DETAILS A4 & B1 SHEET CU505
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- 5 FIRE HYDRANT, SEE DETAIL A5 SHEET CU504
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- SANITARY SEWER CLEANOUT, SEE DETAIL A5 SHEET CU502
- 8 VALVE MANHOLE FOR 4"-8" GATE VALVE, SEE DETAIL A3 SHEET CU503
- (9) WATER METER INSTALLATION 3" AND LARGER, SEE DETAIL C2 SHEET CU503
- ONFLICT MANHOLE. SEE DETAIL C3 SHEET CU501



SAVANNAH-CHATHAM

SYSTEM

COUNTY PUBLIC SCHOOL

SULFOR

GROVES ATHLETIC

RFP C24-01

FIELD &

No o o o o o o 05-30-2023

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REVISIONS:									
	-No.	Description	Date						
	P	ROJECT: 5201-1920	70						
	D	ATE: 05/30/2023							
	D	RAWN BY: FAP							
	C	HECKED BY: CRZ							
SEWER &									

CU103

SCALE: 1"=20'



- 13. ALL WATER MAIN THRUST RESTRAINT SHALL BE RESTRAINT/MECHANICAL JOINTS EQUIVALENT TO EBAA IRON MEGA LUG OR PUSH-ON JOINT
- 15. ALL FITTINGS 2" OR LARGER SHALL BE DUCTILE

- SCCPSS PRIOR TO COMMENCING WORK ON THE DEEP WELL IRRIGATION SYSTEM AND PRIOR TO



RFP C24-01 **GROVES ATHLETIC** FIELD & FIELDHOUSE

PROJECT CONSULTANTS: LANDSCAPE ARCHITECT: CLH DESIGN, P.A. CIVIL ENGINEERS: MOFFATT & NICHOL

CHA CONSULTING, INC.

STRUCTURAL ENGINEER: THARPE ENGINEERING GROUP, LLC

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<u>NOTES</u>

- 1. ALL PVC GRAVITY SEWER SHALL BE ASTM 2241, SDR-26, GREEN IN COLOR.
- 2. ALL PROPOSED MANHOLES ARE ABOVE THE 100 YEAR FLOOD ELEVATION.
- DUCTILE IRON SANITARY SEWER PIPE (DIP) SHALL BE LINED WITH PROTECTO 401 CERAMIC EPOXY WITH 25 MILS DFT MINIMUM EXTERIOR COAL TAR EPOXY.
- PROPOSED 16 STEEL CASING SHALL BE SCHEDULE 30 STEEL CASING, 0.375 THICKNESS.
- 5. CASING SPACERS ARE REQUIRED 2 PER PIPE JOINT.



SEWER PROFILES



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ITEM	QUAN.	DESCRIPTION
1	1	DOUBLE DETECTOR CHECK VALVE ASSEMBLY
2	2	OS&Y RESILIENT SEAT GATE VALVES
3	4	TEST COCKS W/ NO-LEAD BRASS PLUGS
4	2	RESTRAINED FLANGE ADAPTERS W/ MEGALUG (OR EQUIVALENT)
5		DUCTILE IRON PIPE, CUT TO FIT
6	2	MECHANICAL JOINT W/ MEGALUG (OR EQUIVALENT)
7	2	2" SCH. 40 GALV. PIPE STAND & BASE BOLTED TO FLANGE
0	1	PIT-CEMENT BLOCK, POURED CONCRETE, OR PREFABRICATED
0	I	BOX PER CITY SPECS.
9	1	3/8 ALUMINUM FLOOR PLATE / HATCH COVER
10	1	2' X 2' MIN. HATCH W/ LOCKING HASP
11	1	#57 STONE GRAVEL DRAIN

NOTES

- 1. FOR FINAL APPROVAL, ASSEMBLY MUST BE CENTERED IN ENCLOSURE (IF APPLICABLE). UNDER NO CONDITION WILL ANY CONNECTION BE ALLOWED BETWEEN THE SERVICE METER AND BACKFLOW PREVENTER USED FOR SYSTEM CONTAINMENT. BACKFLOW PREVENTER SHALL ALWAYS BE INSTALLED DOWNSTREAM OF METER
- IF A PRESSURE MONITOR IS TO BE INSTALLED, ADD A TEE, VALVE, FITTINGS, AND MOUNT ON SUPPLY SIDE PRIOR TO BACKFLOW PREVENTER; UNDER NO CIRCUMSTANCE SHALL TEST PORTS BE MODIFIED OR UTILIZED FOR THIS OR OTHER APPLICATION, OTHER THAN BACKFLOW-DEVICE TESTING.

TYPICAL BELOW GRADE INSTALLATION (3", 4", 6", 8", 10" & 12" SIZES)







´ A4 `

CU503

- <u>NOTES</u>
- 1. MANHOLE FRAME AND COVER PER DETAIL C1 - WATER MANHOLE RING & COVER,
- SHEET CU504. 2. THE BOTTOM OF THE MANHOLE FRAME SHALL NOT BE MORE THAN 12" ABOVE THE TOP OF THE MANHOLE STRUCTURE.
- 3. PRECAST CONCENTRIC CONE RISERS MAY BE USED WHERE REQUIRED FOR DEPTH. THE MANHOLE FRAME AND COVER MUST BE CENTERED OVER THE VALVE OPERATING
- NUT. 5. POLYPROPYLENE MANHOLE STEPS SHALL BE PROVIDED AT 12" O.C. FOR MANHOLES
- GREATER THAN 5 FEET DEEP. 6. CONNECT TO EXISTING TRACER WIRE WITH SPLICE CONNECTION.
- 7. TAPPING SLEEVE AND VALVE PER DETAIL A2 - TYPICAL TAPPING SLEEVES & TAPPING VALVE, SHEET CU503.

VALVE MANHOLE FOR 4-8 " TAPPING SLEEVES & VALVES SCALE: NTS



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CU503



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				PVC	LINE	F	POLYETHELY DUCTILE I	NE WRAPF IRON LINE
				REDUCER	L]	REDUCER	L
				6X4	29	PVC DESIGN:	6X4	43
				8X4	52	SOIL TYPE: SM	8X4	77
THYLENE WRAPPED)			8X6	31		8X6	45
JCTILE IRON LINE	PVC LINE			10X4	71	4' >12" DIA	10X4	104
E DIA. L	PIPE DIA. L			10X6	53	TEST PRESSURE: 150 PSI	10X6	79
4 58	4 39			10X8	29		10X8	43
6 82	6 55			12X4	89		12X4	131
3 107	8 72			12X6	74		12X6	110
0 128	10 87			12X8	54		12X8	80
2 151	12 102			12X10	30		12X10	45
6 193	16 131			16X6	111		16X6	163
.0 234	20 159			16X8	96		16X8	141
4 273	24 185			16X10	78	PE WRAPPED DIP:	16X10	115
				16X12	56		16X12	82
	RAINED LENGTH (L)			20X10	117	COVER: 3'	20X10	172
				20X12	100	TEST PRESSURE: 150 PSI	20X12	147
D DIP:	PVC DESIGN:			20X16	56		20X16	82
PE: 3	TRENCH TYPE: 3			24X12	137		24X12	201
	COVER: 3' <u><</u> 12" DI	۹.		24X16	101		24X16	149
URE: 150 PSI	4' >12" DIA.	150 001		24X20	56	J	24X20	82
INT SHOWN IS IN FEE IST OF BOTH DUCTIL RED RESTRAINT, LIMI E DETAIL W34), THE L THE VALVE AND NOT TABLES ABOVE ARE GINEER SHALL PROV S DIFFER.	ET. FITTING DIAMETERS ARE IN IN E IRON AND PVC WITHIN THE ITS FOR PVC SHALL APPLY. LENGTH OF RESTRAINT (L) THE CAP. E BASED ON THE DESIGN INFORM IDE AMENDED RESTRAINT LENGT	CHES. ATION 'HS IF	<u>NOTES</u> 1. LENGTH 2. WHERE L LIMITS 3. INFORMA SHOV	U OF RESTRAIN INES CONSIS OF REQUIR TION IN THE WN. THE ENG	= MINIMUM L ON SMA = MINIMUM F WHERE MINII OF REDUCI "L" FEET. NT SHOWN IS ST OF BOTH I ED RESTRAIN TABLES ABC SINEER SHALL	JNINTERUPTED STRAIGHT R LL SIDE OF REDUCER. RESTRAINED LENGTH. MUM "U" IS NOT MET, PIPE O ER SHALL BE RESTRAINED F DUCTILE IRON AND PVC WIT NT, LIMITS FOR PVC SHALL A DVE ARE BASED ON THE DES L PROVIDE AMENDED RESTR	UN OF PIPE IN LARGE SID OR A MINIMU RS ARE IN INC HIN THE IPPLY. SIGN INFORM RAINT LENGT	E IM OF CHES. ATION HS IF

TEST PRESSURE: 150 PSI

PVC DESIGN:

SOIL TYPE: SM

TRENCH TYPE: 3

COVER: 3' <12" DIA.

4' >12" DIA.

PE WRAPPED DIP:

TRENCH TYPE: 3

TEST PRESSURE: 150 PSI

C4

CU504

SCALE: NTS

SOIL TYPE: SM

<u>NOTES</u>

COVER: 3'

24	15	4	29	7	60	15				
POLYETHELYNE WRAPPED DUCTILE IRON LIN										
			BEND	ANGL	E					
PIPE DIA.	11	$\frac{1}{4}^{\circ}$	22	$\frac{1}{2}^{\circ}$	45 [°]					
	L _u	L	L _u	L	L _u	L				
4	6	1	12	2	24	4				
6	9	2	17	3	34	5				
8	11	2	22	3	45	7				
10	13	2	26	4	53	8				
12	15	3	30	5	63	9				

16 19 3 39 6 80 12

24 | 27 | 4 | 55 | 8 | 113 | 17

97

15

L

23 4 47 7

THE ENGINEER SHALL PROVIDE AMENDED RESTRAINT LENGTHS IF SITE CONDITIONS DIFFER

20

2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE

1. LENGTH OF RESTRAINT SHOWN IS IN FEET. PIPE DIAMETERS ARE IN INCHES.

LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.

VERTICAL BEND RESTRAINT

CU101 / SCALE: NTS

CU102, CU104-

3. INFORMATION IN THE TABLES ABOVE ARE BASED ON THE DESIGN INFORMATION SHOWN.

	PVC LINE								
		BEND ANGLE							
PIPE DIA.	11	$\frac{1}{4}^{\circ}$	22	$\frac{1}{2}^{\circ}$	45 [°]				
	L _u	L	L _u	L	L _u	L			
4	4	1	8	2	17	3			
6	6	1	11	2	23	4			
8	8	2	15	3	30	6			
10	9	2	18	4	36	7			
12	11	2	21	4	43	8			
16	10	3	21	5	42	10			
20	13	3	25	6	51	12			
0.1	4 -	4	00	7	<u> </u>	4 5			

THE ENTIRE LENGTH

- OFFSET TO BE RESTRAINED



SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL

JUUF

RFP C24-01

SYSTEM

PVC DESIGN:

SOIL TYPE: SM

TRENCH TYPE: 3

COVER: 3' <u><</u>12" DIA.

TEST PRESSURE: 150 PSI

4' >12" DIA.

- <u>NOTES</u> 1. LENGTH OF RESTRAINT SHOWN IS IN FEET. FITTING DIAMETERS ARE IN INCHES. 2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE
- LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.
- 3. U1 AND U2 = UNINTERUPTED STRAIGHT RUNS OF PIPE IN EACH DIRECTION 4. Ur = THE SMALLER OF U1 OR U2.
- 5. L = MINIMUM RESTRAINED LENGTH ALONG THE BRANCH.
- 6. WHERE Ur IS LESS THAN 5', RESTRAIN TEE AS A 90°.
- HORIZONTAL BEND. 7. INFORMATION IN THE TABLES ABOVE ARE BASED ON THE DESIGN INFORMATION SHOWN . THE ENGINEER SHALL PROVIDE AMENDED RESTRAINT LENGTHS IF SITE CONDITIONS DIFFER.

PVC

16X10

16X12

16X16

20X10

20X12

24X6

24X8

24X10

24X12

Ur 10'

4X4

6X6

6X4

8X4

8X6

8X8

10X4

10X6

10X8

10X10

12X4

12X8

12X10

16X6

16X8

12X12 39

12X6

3



<u>NOTES</u>

´ A5 ` CU103

SCALE: NTS

- 1. ALL JOINTS FROM MAIN TO HYDRANT SHALL BE RESTRAINED.
- 2. VALVE BOX AND COLLAR INSTALLED PER DETAIL C1 SHEET CU503.
- 3. REMOVE CHAINS AFTER INSTALLATION OF NEW HYDRANT.
- 4. CONNECT TRACER WIRE TO WIRE ON MAIN W/ SPLICE CONNECTOR.





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- 1. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE GARDEN CITY DEPARTMENT OF WATER OPERATIONS LATEST CONSTRUCTION SPECIFICATIONS AND DETAILS. THE SYSTEM SHALL BE DESIGNED AND TESTED PER THE SPECIFICATIONS AND REQUIREMENTS MAINTAINED BY THE CITY
- 2. THE WATER SERVICE LATERAL SERVING THE FACILITY SHALL BE INSTALLED BY THE DEVELOPER/CONTRACTOR FROM THE WATER MAIN TO THE METERS. THE GARDEN CITY DEPARTMENT OF WATER OPERATIONS WILL
- 3. ALL MATERIALS USED AND COMING INTO CONTACT WITH DRINKING WATER DURING ITS DISTRIBUTION SHALL NOT ADVERSELY AFFECT DRINKING WATER QUALITY AND PUBLIC HEALTH AND MUST BE CERTIFIED FOR CONFORMANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION
- 4. IN ALL WATER LINE PROJECTS, CARE WILL BE TAKEN TO KEEP THE INTERIOR OF THE WATER PIPE CLEAN PRIOR
- A. PIPE, FITTINGS, VALVES AND OTHER ACCESSORIES SHALL, UNLESS OTHERWISE DIRECTED, BE UNLOADED AT THE POINT OF DELIVERY, AND STORED WHERE THEY WILL BE PROTECTED AND WILL NOT BE A HAZARD TO TRAFFIC. THEY SHALL AT ALL TIMES BE HANDLED WITH CARE TO AVOID DAMAGE. THE INTERIOR OF ALL PIPES, FITTINGS AND OTHER ACCESSORIES SHALL BE KEPT FREE FROM DIRT AND FOREIGN MATTER AT ALL
- B. ANY DEFECTIVE, DAMAGED, OR UNSOUND PIPE SHALL BE REJECTED. ALL FOREIGN MATTER OR DIRT SHALL BE REMOVED FROM THE INSIDE OF THE PIPE BEFORE IT IS LOWERED INTO ITS POSITION IN THE TRENCH AND SHALL BE KEPT CLEAN BY APPROVED MEANS DURING AND AFTER LAYING. CARE SHALL BE TAKEN TO PREVENT DIRT FROM ENTERING THE JOINT SPACE. DURING INSTALLATION, WHEN PIPE LAYING IS NOT IN PROGRESS, A MECHANICAL JOINT PLUG OR CAP, OR APPROVED EQUAL, WILL BE USED TO FORM A WATER TIGHT SEAL AT BOTH ENDS OF THE LINE BEING LAID. NO TRENCH WATER SHALL BE PERMITTED TO ENTER
- C. CLEAN THE INTERIORS OF ALL PIPES BY BRUSHING, SWABBING OR WASHING OUT OF ALL DIRT BEFORE
- D. FLUSH THE NEW PIPE LINES UNTIL THE WATER RUNS CLEAR AT THE END OF ALL MAINS AND LATERALS. THIS SHOULD BE DONE AFTER THE PRESSURE TEST AND BEFORE DISINFECTION. FLUSH NEW LINES WITH SUFFICIENT FLOW TO OBTAIN A FLUSHING VELOCITY OF 2.5FT/SEC. FLUSH LINES UNTIL WATER RUNS FREE OF DEBRIS. COORDINATE FLUSHING ACTIVITIES WITH CITY PERSONNEL
- 5. ANY METER OR HYDRANT REMOVED FROM THE SITE SHALL BE RETURNED TO THE CONVEYANCE AND
- 6. AN APPROVED WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT, SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON THE SITE.
- 7. ALL WATER USED FOR CONSTRUCTION SHALL BE METERED THROUGH AN APPROVED BACKFLOW PREVENTION DEVICE AND FIRE HYDRANT METER OBTAINED FROM THE CONVEYANCE AND DISTRIBUTION DEPARTMENT.
- 9. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE WATER LINES ARE PLACED WITHIN THE EASEMENTS WITH A MINIMUM 7'-6" AVAILABLE FROM PIPE CENTERLINE TO EASEMENT LINE.
- 10. CONTACT THE UTILITIES PROTECTION CENTER (811 IN GEORGIA OR 1-800-282-7411) FOR LOCATION OF CITY WATER LINES A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO DIGGING.
- 11. CONTRACTOR SHALL NOTIFY RESIDENTS A MINIMUM OF 24 HOURS IN ADVANCE OF ANY WORK THAT MAY IMPACT THEM, INCLUDING BUT NOT LIMITED TO: PARKING STALL IMPACT, LOSS OF SERVICE, DRIVEWAY CUTS, REMOVAL/RELOCATION OF FENCES AND MAIL BOXES, SIDEWALK IMPACTS, ETC.
- 12. ALL WATER MAINS SHALL BE AWWA C-900, DR-18 PRESSURE CLASS 235 PVC.
- 13. ALL WATER LATERALS SHALL BE POLYETHYLENE PE 3408 SDR-9 CONFORMING TO ALL REQUIREMENTS OF
- 14. ALL WATER MAIN THRUST RESTRAINT SHALL BE HANDLED BY USE OF JOINT RESTRAINT/MECHANICAL JOINTS EQUIVALENT TO EBAA IRON MEGALUG OR PUSH-ON JOINT TYPE RESTRAINED JOINTS EQUIVALENT TO "LOK-RING", "TR CU102 - CU105-

CentriPro Aquavar Solo2 Pump-

1-1/2" Pump Discharge Line

Check Valve

A4 CU505

SCALE: NTS

Supply for Controller

Controller







SAVANNAH-CHATHAM

BID SET

CU505



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ACCESSIBLE PARKING SPACE STRIPING DETAIL ´ A1 ` CM101 SCALE: NTS

NOTE

CODES AND SPECIFICATIONS.

SEE DETAIL A4, SHEET CM501.



ACCESSIBLE ROUTE (MIN. 48" WIDTH)



2. ALL PAVEMENT MARKINGS AND STRIPING IN THE RIGHT-OF-WAY SHALL BE THERMOPLASTIC.

NOTES: 1. STRIPING AND CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND CITY CODES AND SPECIFICATIONS.





- FOR RAISED CURB DETECTABLE

1. STRIPING AND CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND CITY

2. ALL PAVEMENT MARKINGS AND STRIPING IN THE RIGHT-OF-WAY SHALL BE THERMOPLASTIC.

3. 2% MAXIMUM SLOPE IN ALL DIRECTIONS WITHIN ACCESSIBLE PARKING SPACE AND ACCESS AISLE.

4. ALL ACCESSIBLE PARKING SPACES SHALL BE ACCOMPANIED BY AN ACCESSIBLE PARKING SIGN.



<u>NOTE</u>

SCALE: NTS

CM101

POST SHALL BE CAREFULLY CLEANED AND PHOSPHATED. IMMEDIATELY AFTER PHOSPHATING POST SHALL BE COATED WITH A MODIFIED POLYESTER PAINT BY ELECTRODEPOSITION AND THEN THOROUGHLY BAKED. COLOR IS PERMA-GREEN PER FED. STANDARD 595-A COLOR #14109 (DARK LIMIT V-)





NOTE:







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			SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM
			SCCPSS
			RFP C24-01 GROVES ATHLETIC FIELD & FIELDHOUSE
			PROJECT CONSULTANTS: <u>LANDSCAPE ARCHITECT:</u> CLH DESIGN, P.A. <u>CIVIL ENGINEERS:</u> MOFFATT & NICHOL CHA CONSULTING, INC. <u>STRUCTURAL ENGINEER:</u> THARPE ENGINEERING GROUP, LLC
			MECHANICAL & PLUMBING: DULOHERY, WEEKS & GAGLIANO, INC.
			321 WEST CONGRESS STREET SUITE 301 SAVANNAH, GEORGIA 31401 TEL. 912.695.2111 FAX 912.298.0206 WWW.LS3P.COM
	COUNTY PROJECT NUMBER S	HEET NO. TOTAL SHEETS	moffatt & nichoi
DETAIL 'C'' (YELLOW) 5'-0'C-C (TYP)	DETAIL 'D'' (YELLOW)	.Р. Х	SAVANNAH, GA 31401 912-231-0044
DETAIL "C" (WHITE) — TRAFFIC — — "B"-0"C-C (TYP) —	DETAIL "D" (WHITE) — TRAFFIC — YHITE (TYP) — 50°-0°C-C (TYP) — -8° SOI — 24° — 45° — N.E.P.	LID WHITE (TYP)	05-30-2023 MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS COPYRIGHT 2018 ALL RIGHTS RESERVED PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.
			REVISIONS: No. Description Date
- NO SCALE -	DATE REVISIONS STATE OF GEOR 6/25/04 Modified general note 1 DEPARTMENT OF TRANS 1/18/05 CHANGED BORDER OFFICE: TRAFFIC OPERA 11/21/08 Modified general note 1 SIGNING AND MARK DETAIL OF PAVEMENT MARI HATCHING JANUAR	RGIA SPORTATION TIONS ING PLANS KING T-14 KY 2000 T-14	PROJECT: 5201-192070 DATE: 05/30/2023 DRAWN BY: FAP CHECKED BY: CRZ
NGS HATCHING			MARKING DETAILS
			CM502







SEE SHEET L114 FOR PLANT LIST AND ADDITIONAL NOTES. SEE SHEET L115 FOR PLANTING DETAILS.



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STRUCTURAL ENGINEER: THARPE ENGINEERING GROUP, LLC

RFP C24-01 GROVES ATHLETIC FIELD & FIELDHOUSE

PROJECT CONSULTANTS: LANDSCAPE ARCHITECT: CLH DESIGN, P.A.

<u>CIVIL ENGINEERS:</u> MOFFATT & NICHOL CHA CONSULTING, INC.

SCCPSS

SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM



GRAPHIC SCALE (IN FEET) 1 inch = 20 ft.STATE OF GEORGIA BRAD RAFFENSPERGER, Secretary of State Georgia Board of Landscape Architects License No. OF G /LA-T000074 - Christine Lockwood fult 400 Regency Forest Drive Suite 1. Cany NC 27518 **Temporary Landscape Architect** EXP DATE - 07/14/2021 Status: Active Issue Date: 07/14/2020 ISSUED: 2021-02-10 DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING



SEE SHEET L114 FOR PLANT LIST AND ADDITIONAL NOTES. SEE SHEET L115 FOR PLANTING DETAILS. COPYRIGHT 2018 ALL RIGHTS RESERVED

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REVISIONS

R	REVISIONS:								
No.	De	escription	Date						
5	Addendum	7	11/13/20						
6	Post Bid A	ddendum 1	2/10/21						
PF	ROJECT:	5201-19207	70 (CLH:19-177)						
DATE:		10/09/2020	10/09/2020						

DRAWN BY: GSH, ST CHECKED BY: CLH, ZRP



CONSTRUCTION SET



321 WEST CONGRESS STREET SUITE 301 SAVANNAH, GEORGIA 31401 TEL. 912.695.2111 FAX 912.298.0206 WWW.LS3P.COM



PROJECT CONSULTANTS: LANDSCAPE ARCHITECT: CLH DESIGN, P.A.

<u>CIVIL ENGINEERS:</u> MOFFATT & NICHOL CHA CONSULTING, INC. STRUCTURAL ENGINEER: THARPE ENGINEERING GROUP, LLC

MECHANICAL & PLUMBING: DULOHERY, WEEKS & GAGLIANO, INC.

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SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM



SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM SCCP33 RFP C24-01 **GROVES ATHLETIC** FIELD & FIELDHOUSE

PROJECT CONSULTANTS: <u>LANDSCAPE ARCHITECT:</u> CLH DESIGN, P.A.

<u>CIVIL ENGINEERS:</u> MOFFATT & NICHOL CHA CONSULTING, INC. STRUCTURAL ENGINEER: THARPE ENGINEERING GROUP, LLC MECHANICAL & PLUMBING: DULOHERY, WEEKS & GAGLIANO, INC.



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No	Des	scription	Date		
110.	Dea		Date		
5	Addendum	7	11/13/20		
6	Post Bid Ad	dendum 1	2/10/21		
PF	ROJECT:	5201-192070	(CLH:19-177)		
DATE:		10/09/2020			

DRAWN BY: GSH, ST

CHECKED BY: CLH, ZRP LANDSCAPE PLAN L107

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GRAPHIC SCALE (IN FEET) 1 inch = 20 ft. STATE OF GEORGIA BRAD RAFFENSPERGER, Secretary of State Georgia Board of Landscape Architects License No. OF G /LA-T000074 - Christine Lockwood flilt 1. 64 400 Regency Forest Drive Suite 120 Cany NC 27518 **Temporary Landscape Architect** EXP DATE - 07/14/2021 Status: Active Issue Date: 07/14/2020 ISSUED: 2021-02-10 DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING



SEE SHEET L115 FOR PLANTING DETAILS.

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No.	De	scription	Date						
5	Addendum	7	11/13/20						
6	Post Bid Ac	ldendum 1	2/10/21						
PF	ROJECT:	5201-19207	′0 (CLH:19-177)						
DATE:		10/09/2020							

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RFP C24-01 **GROVES ATHLETIC** FIELD & FIELDHOUSE

PROJECT CONSULTANTS: LANDSCAPE ARCHITECT: CLH DESIGN, P.A.

<u>CIVIL ENGINEERS:</u> MOFFATT & NICHOL CHA CONSULTING, INC. <u>STRUCTURAL ENGINEER:</u> THARPE ENGINEERING GROUP, LLC MECHANICAL & PLUMBING: DULOHERY, WEEKS & GAGLIANO, INC.

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SEE SHEET L115 FOR PLANTING DETAILS.

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SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL

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GROVES ATHLETIC

RFP C24-01

FIELDHOUSE

PROJECT CONSULTANTS: LANDSCAPE ARCHITECT: CLH DESIGN, P.A.

<u>CIVIL ENGINEERS:</u> MOFFATT & NICHOL CHA CONSULTING, INC.

STRUCTURAL ENGINEER: THARPE ENGINEERING GROUP, LLC

MECHANICAL & PLUMBING: DULOHERY, WEEKS & GAGLIANO, INC.

FIELD &

SYSTEM

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DRAWN BY: GSH, ST CHECKED BY: CLH, ZRP LANDSCAPE PLAN L110

CONSTRUCTION SET





CONSTRUCTION SET





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SAVANNAH-CHATHAM

SYSTEM

COUNTY PUBLIC SCHOOL

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 Addendum 7
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SEE SHEET L115 FOR PLANTING DETAILS.



SAVANNAH-CHATHAM

DRAWN BY: GSH, ST CHECKED BY: CLH, ZRP LANDSCAPE PLAN L113

5201-192070 (CLH:19-177)

10/09/2020

PROJECT:

DATE:

CONSTRUCTION SET

	(<u>GENER</u> /	4L	NOTES-LAND.	<u>SCAPING</u>						
		1. LOCATE ALL E 2. VERIFICATION	XISTING U OF TOTAL	UTILITIES PRIOR TO INSTALLATION OF PLA QUANTITIES AS SHOWN ON THE PLANT (NT MATERIAL. NOTIFY OWNER OF ANY LIST SHALL BE THE RESPONSIBILITY OF	DISCREPANCIES B THE CONTRACTO	ETWEEN FIELD C R AND THE TOT	ONDITIONS AN AL QUANTITIE	ND THOSE SHOWN ON THE PLAN IS SHALL BE AS SHOWN ON THE	I. E PLAN.	
		3. ALL PLANT M/ 4. ALL PLANT M/	ATERIAL S ATERIAL (SHALL CONFORM WITH THE STANDARDS S SHRUBS/TREES) SHALL BE A MINIMUM D	ET FORTH BY THE AMERICAN ASSOCIA ISTANCE OF 4 1/2 FEET FROM BACK (TION OF NURSERY OF CURB, EXCEPT	MEN AND THE W ALONG ANY NE	RITTEN SPECI W WALLS ADJ	IFICATIONS. IACENT TO PARKING WHERE CUR	RB STOPS WILL BE U	ISE
		5. ALL PLANT GR 6. APPLY PRE-E	ROUPINGS MERGENT	SHALL BE MULCHED AS ONE BED. 3" OI HERBICIDE TO ALL NEW PLANTING BEDS	F TRIPLE SHREDDED SHREDDED HARDW AT MANUFACTURER'S RECOMMENDED F	'OOD MULCH SHAL RATE PRIOR TO IN	l be used aro Istallation of	UND ALL PLA MULCH.	NTINGS.		
		7. ESTABLISH PO 8. DO NOT INSTA	ISITIVE DR	RAINAGE IN ALL PLANTING BEDS AND AW. T MATERIAL IN IMPERVIOUS SOILS, (i.e. H	AY FROM BUILDINGS. OLES WHICH, WHEN FILLED WITH WATER	R, DO NOT COMPL	etely drain w	THIN TWO HOU	URS.) SEE SPECIFICATIONS FOR	TOPSOIL REQUIREME	NTS
		9. LAWN AREAS AND SPECIFIC	SHALL BE	E SEEDED WITH SUNSTAR BERMUDA GRAS OR ADDITIONAL INFORMATION.	IS 95% COVERAGE (BASED ON A PER S	SQUARE YARD SA	MPLE) SHALL BE	ATTAINED P	RIOR TO FINAL INSPECTION. SEE	DETAIL SHEET FOR	RÆ
		10. CONTACT THE 10.1. REVIEW C	LANDSCA F GRADIN	APE ARCHITECT FOR INSPECTION 48 HOUF	rs in advance of the scheduled si Tion	TE VISIT AND AT	THE FOLLOWING	INTERVALS:			
		10.2. REVIEW C 10.3. ONE SUB)F PLANT STANTIAL	MATERIAL PRIOR TO INSTALLATION. COMPLETION MEETING FOR PLANT INSTAL	LLATION.						
		10.4. ONE FINA 11. THE TREE PRO	l inspec)tection	TION FOR ALL SEEDING/PLANTING OPERA FENCE SHALL BE MAINTAINED ON THE SI	TIONS. ITE UNTIL ALL SITE WORK IS COMPLETE	D AND THE FINAL	. SITE INSPECTIO	N PRIOR TO	THE CERTIFICATE OF OCCUPANC	cy (co) is scheduli	ED.
D -		FENCING SHAL 12. LANDSCAPE S	l be ren Ub-conti	NOVED PRIOR TO FINAL SITE INSPECTION RACTOR (UNDER GC CONTRACT) SHALL E	FOR THE CO. BE RESPONSIBLE FOR WATERING ALL PL	LANTS AND LAWN	AREAS AT HIS	COST FROM H	HIS OWN WATER SOURCE INCLUD	NING DURING PERIODS	s c
		DROUGHT UNT	IL THE PL TRACTOR	LANTS AND LAWN MEET FINAL COMPLETIC SHALL BE RESPONSIBLE FOR KEEPING AN	DN. PLANT MATERIALS OR AREAS OF G	RASS WHICH PERI VAY FROM SEEDEL	SH SHALL BE RI AREAS. IF DAN	E-ESTABLISHE	ED BY THE CONTRACTOR AT NO	EXPENSE TO THE COMMER. AREAS SHAL)WN Li
		REGRADED AN 14. SUBSTITUTIONS	D RESEEL S OF PLA	DED IMMEDIATELY AT NO ADDITIONAL COS NT MATERIAL SHALL ONLY BE ACCEPTED	T TO THE OWNER. CONTRACTOR SHALL 60 DAYS PRIOR TO COMMENCEMENT (. WATER AND MAI OF PLANTING OPEI	NTAIN THOSE AI RATIONS. SUBSTI	REAS UNTIL T TUTION REQU	HEY ARE AT 95% COVERAGE AT ESTS MUST BE IN WRITING AND	FINAL COMPLETION. WILL ONLY BE ACC	EPT
		LACK OF AVA 15. LANDSCAPE C	ILABILITY ONTRACT	REASONS WHICH CAN BE SUBSTANTIATEL OR SHALL NOTIFY LANDSCAPE ARCHITECT) or for superior stock substitut To review grading one week prior	ions. R to seeding. If	THE LANDSCAPE	CONTRACTO	r and landscape architect i	FIND GRADING UNAC	CEF
		FOR FINAL SE ARCHITECT.	EDING, LA	NDSCAPE CONTRACTOR SHALL BRING IT	TO THE ATTENTION OF THE GENERAL (CONTRACTOR. LAN	IDSCAPE CONTRA	ACTOR SHALL	NOT PROCEED WITHOUT APPRO	OVAL BY LANDSCAPE	:
		16. IF CONFLICTS 17. INSTALL PERM	OCCUR B	ETWEEN WRITTEN SPECIFICATIONS AND THE EEDING WITHIN CONSTRUCTION LIMITS OF	HE DRAWINGS, THE WRITTEN SPECIFICAT PROJECT. SEE SHEET L115 FOR ADDITIO	TIONS SHALL PREV ONAL INFORMATIO	VAIL. N.				
		18. ALL AREAS LA	ABELED A	S SOD SHALL BE TIFWAY 419 BERMUDAG	RASS SOD.						
			SYNTI	Hetic Turf, see sheet l115 for detail	S AND ADDITIONAL INFORMATION.						
		GRAPHIC SYMBOLS	SUPERSI	ILS AND ADDITIONAL INFORMATION. EDE WRITTEN QUANTITIES WHERE DISCREF	PANCIES OCCUR.						
			~UER								٦
		TLANI SU	UNEL QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE		REMARKS		-
		CHI	37	Chionanthus retusus Chinese Fringe Tree	B&B	MULTI-TRUNK	7'-8' HT.		MULTI-TRUNK, MATCHED		1
		GIN	13	Ginkgo biloba 'Golden Globe'	B&B	2.5"	12'-14' HT.		STRAIGHT TRUNK, MATCHED		1
		IC2	5	llex x 'Conaf'	Container		4–5' HT		MATCHED SPECIMENS		+
		II FS	27	Oak Leaf Holly	CONT	_	4_5' HT		MATCHED		4
		- <u>-</u>		Savannah Holly							
			20	Juniperus virginiana Burkii Burk Red Cedar		100	4-5 HT		MAIGTED SPECIMENS	ļ	
		LAGM	40	Lagerstroemia x 'Muskogee' Lavender Crape Myrtle Multi–Trunk	CONT./B&B	MUL 11-TRUNK	7' -8 ' HT.		ש"ב-ס IKUNKS, MATCHED		
		LAGN	22	Lagerstroemia x 'Natchez' White Crape Myrtle Multi–Trunk	CONT./B&B	MUL TI-TRUNK	7'-8' HT.		3–5 TRUNKS, MATCHED		
с –		MAG	44	Magnolia grandiflora 'Little Gem'	CONT./B&B		7'-8' HT.		MATCHED SPECIMENS		1
		MD	9	Magnolia x loebneri 'Dr. Merrill'	B&B	1 1/2"	7'-8' HT.		STRAIGHT TRUNK, MATCHED		1
		NW	9	Magnolia Nyssa sylvatica 'Wildfire'	B&B	2.0"	10–12' HT.		STRAIGHT TRUNK, MATCHED		-
		PIN	90	Black Gum Pinus taeda	CONT /B#B	_	6-7' HT		Looselv staked		-
		OUFH	14	Loblolly Pine	BAR	2.5*	10 12' UT				4
			77	Darlington Oak		2.0					
		QUED	3/	Quercus laurifolia 'Darlingtonia' Darlington Oak	B&B	2.5*	12`-14` HT.		MATCHED		
		QN	14	Quercus nuttallii Nuttall Oak	B&B	2.5"	12'-14' HT.		STRAIGHT TRUNK, MATCHED		
		QUES	9	Quercus shumardii Shumard Red Oak	B&B	2.5"	12'-14' HT.		STRAIGHT TRUNK, MATCHED		
		QUEV	40	Quercus virginiana Southern Live Oak	B&B	2.5*	12'-14' HT.		STRAIGHT TRUNK, MATCHED]
		ΤΑΧΑ	15	Taxodium ascendens Pond Cypress	B&B	2.0*	10—12' HT.		STRAIGHT TRUNK, MATCHED]
		TAXD	8	Taxodium distichum Bald Cypress	B&B	2.0"	10—12' HT.		STRAIGHT TRUNK, MATCHED		1
		UE	20	Ulmus parvifolia 'Emer II'	B&B	2.0*	10—12' HT.		STRAIGHT TRUNK, MATCHED		1
		ZEL	14	'Erner II' Allee Elm Zelkova serrata 'Village Green'	B&B	2.5"	12'-14' HT.		STRAIGHT TRUNK, MATCHED		+
	•	\frown		Village Green Zelkova							-
	5	SHRUBS	οτγ	BOTANICAL / COMMON NAME	CONT	• • -	SIZE		REMARKS		([
		СВ	15	Callicarpa americana American Beautyberry	B&B						Ŋ
		CO2	28	Cephalanthus occidentalis			15–18" HT.				7
		DIS	120	Distylium x 'Vintage Jade' Vintage Jade Distylium	CONT.	-	12–15" HT.		SPACED 4' O.C.]
в		GR	19	Gardenia jasminoides 'Radicans'	CONT.	-	15–18" SPD		SPACED 4' O.C.		1
		ILE	118	llex cornuta 'Carissa'	CONT.	-	15–18" SPD		SPACED 4' O.C.		-
		ILEN	63	Carissa Holly Ilex cornuta 'Needlepoint'	CONT.	-	18–24" HT.		SPACED 6' O.C.		-
		11 FH	50	Needlepoint Holly			15 10" UT				4
			100	Hoogendorn Japanese Holly						ļ	
		ILEV	120	llex vomitoria 'Stokes Dwarf' Dwarf Yaupon	CONT.	-	12–15" SPD		SPACED 4° O.C.		
	\wedge		22	Illicium parviflorum 'Florida Sunshine' Florida Sunshine-Illioium —	CONT.	-	18-24" HT.		SPACED 6' O.C.		
		IV2	31	Itea virginica Virginia Sweetspire	CONT.	3 GAL.	8"-12" HT.				1
		JOND	67	Juniperus davarica 'Expansa'	CONT.	-	15–18" SPD		FULL PLANTS		1
		MC2	175	Myrica cerifera	CONT.	-	24-30" HT.		SPACED 6' O.C.		+
		RU	62	Wax Myrtle Rhaphiolepis umbellata 'Snow White'	CONT.	-	12–15" HT.		SPACED 3.5' O.C.	<u> </u>	+
		SPI	59	Yedda Hawthorn	CONT.	_	15—18" ШТ		SPACED 3' OC	<u> </u>	-
			0.9	Goldmound Spirea			13-16 ні.		SPACED 5 U.C.		
		NBC	193	Viburnum awabuki 'Chindo' Chindo Viburnum		-	24–30" HT.		SPACED 8' O.C.		
	1	FERNS	Ιστγ	BOTANICAL / COMMON NAME			SIZE	\sim	REMARKS	$\sim\sim$	┥
	$\sqrt{5}$	CYR	26	Cyrtomium falcatum	CONT.	1 GAL.	FULL				1
	$\langle \rangle$	DRYL	29	Dryopteris Iudoviciana	CONT.	1 GAL.	FULL		18" O.C.		ł
	(Southern Shield Fern					1	<u>I</u>	┟
	7	GRASSES	QTY	BOTANICAL / COMMON NAME	CONT	-	SIZE		REMARKS		1`
	\rightarrow	МС	55	Muhlenbergia capillaris Pink Muhly	CONT.	#1	15–18" HT.				k
	(PERENNIAL	QTY	BOTANICAL / COMMON NAME		-	SIZE		REMARKS		┦
^ 7	7	W	7	Vernonia noveboracensis	CONT.	1 GAL.	- FULL			<u> </u>	\uparrow
	\langle										ł
		GROUND COVERS	CODE		BOTANICAL / COMMON NAME	CONT	-	SIZE	SPACING	REMARKS	1
		↓ ↓ ↓ ↓ ↓ ↓		100,092 St	Cynodon dactylon 'Tifway 419' Tifway 419 Bermuda Grass	500					
		· · · · · · · · · · · · · · · · · · ·	LIR	216	Liriope muscari 'Ingwersen'	CONT.	-	3–5 BIBS	15" o.c.	SPACED 15" O.C.	1
	\wedge				Ingwersen Classic Blue Liriope		$ \frown $	C175			Ţ
	<u>_5</u>	GRASSES	PS	72	BUTANICAL / COMMON NAME Panicum virgatum 'Shenandoah'	CONT.	- 1 GAL.	JZE	24" o.c.	REMARKS	┦
	7				Shenandoah Switch Grass						_
	Ϋ́		PH	71	Pennisetum alopecuroides 'Hameln' Hameln Fountain Grass	CONT.	1 GAL.		24" o.c.		1
											X

	10' LANDSCAPE STRIPS ALONG RIGHTS OF W	AYS:	SPECIMEN TREE
USED.	<u>AUGUSTA AVENUE:</u> SECTION IN FRONT OF STADIUM 397 LF		NUMBER OF SPECIMEN TREES REMO
R RATES JLED. THE	REQUIRES: (8) 2–1/2" CAL. SHADE TREES (16) 1–1/2" CAL. UNDERSTORY TREES		
DS OF OWNER. NL BE N. CEPTED FOR CCEPTABLE PE	PROVIDED: (8) 2–1/2" CAL. SHADE TREES (13) 7'–8' HT. UNDERSTORY TREES		
	<u>AUGUSTA AVENUE:</u> SECTION IN FRONT OF SCHOOL 991 LF (EXCLUDING DRIVE)		
	REQUIRES: (20) 2–1/2" CAL. SHADE TREES (40) 1–1/2" CAL. UNDERSTORY TREES		
	PROVIDED: (21) 2–1/2" CAL. SHADE TREES (18) 7'–8' HT. UNDERSTORY TREES		REQUIRED SPECIMEN TREE REPLACE 510 TOTAL INCHES / 3" PER TREE
	<u>PRISCILLA D. THOMAS WAY:</u> SECTION IN FRONT OF STADIUM 810 LF (EXCLUDING DRIVE)		SPECIMEN TREE REPLACEMENT: (0)
	REQUIRES: (17) 2–1/2" CAL. SHADE TREES (35) 1–1/2" CAL. UNDERSTORY TREES		TREE SITE DENSITY <u>REQUIRED</u> : 16 UNITS PER ACRE= 6
	PROVIDED: (18) 2–1/2" CAL. SHADE TREES (15) 7'-8' HT. UNDERSTORY TREES		TOTAL ACRES: $=43.35$ ACR $-AREA$ OF BUFFERS (3,750 LFx 1NET AREA: $=42.44$ ACRE
	<u>COOPER LANE:</u> SECTION IN FRONT OF STADIUM 281 LF		<u>PROVIDED</u> : 389.4 UNITS PER ACRE <u>EXISTING TREE UNITS:</u> 85" OAK 39.4
	REQUIRES: (6) 2–1/2" CAL. SHADE TREES (12) 1–1/2" CAL. UNDERSTORY TREES		<u>NEW TREES:</u> 2–1/2" CAL. TREES (0.5 x 186 T <u>1–1/2" CAL. TREES (0.4 x 164 T</u>
	PROVIDED: (0) 2–1/2" CAL. SHADE TREES (0) 7'–8' HT. UNDERSTORY TREES		TOTAL
	PRISCILLA D. THOMAS WAY: SECTION IN FRONT OF SCHOOL 830 LF (EXCLUDING DRIVE)		
	(17) 2–1/2" CAL. SHADE TREES (34) 1–1/2" CAL. UNDERSTORY TREES		
	PROVIDED: (19) 2–1/2" CAL. SHADE TREES (7) 7'–8' HT. UNDERSTORY TREES– (10) 6'–7' HT. PINES		
	<u>PRISCILLA D. THOMAS WAY:</u> SECTION IN FRONT OF BALL FIELDS 1,220 LF (EXCLUDING DRIVE) REQUIRES:		
	(25) 2–1/2" CAL. SHADE TREES (49) 1–1/2" CAL. UNDERSTORY TREES		
	PROVIDED: (18) 2–1/2" CAL. SHADE TREES (7) 7'–8' HT. UNDERSTORY TREES– (4) 6'–7' HT. PINES		



CONSTRUCTION SET

