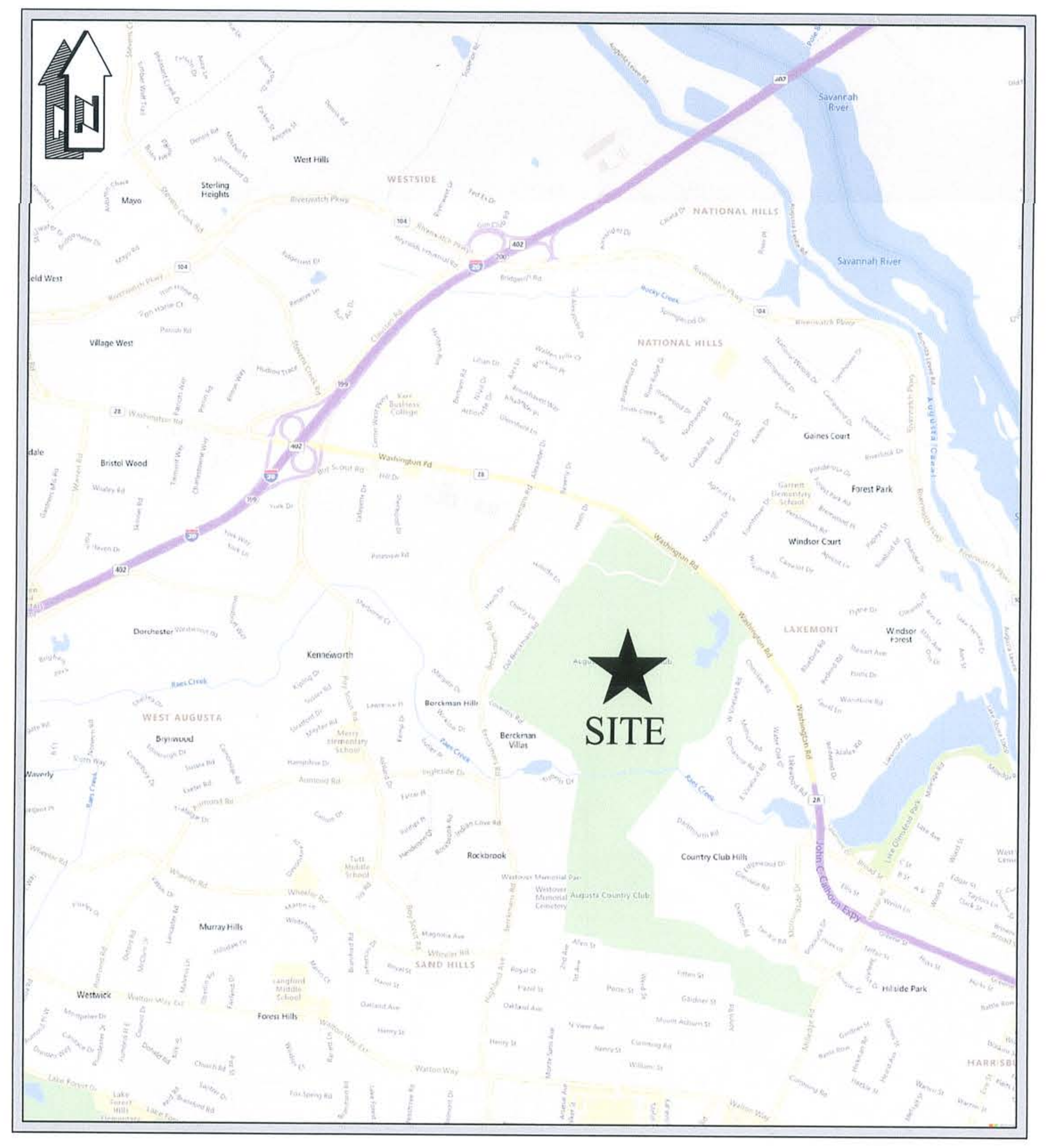
CONSTRUCTION PLANS FOR

HOLES 8 AND 18 PATRON HUB

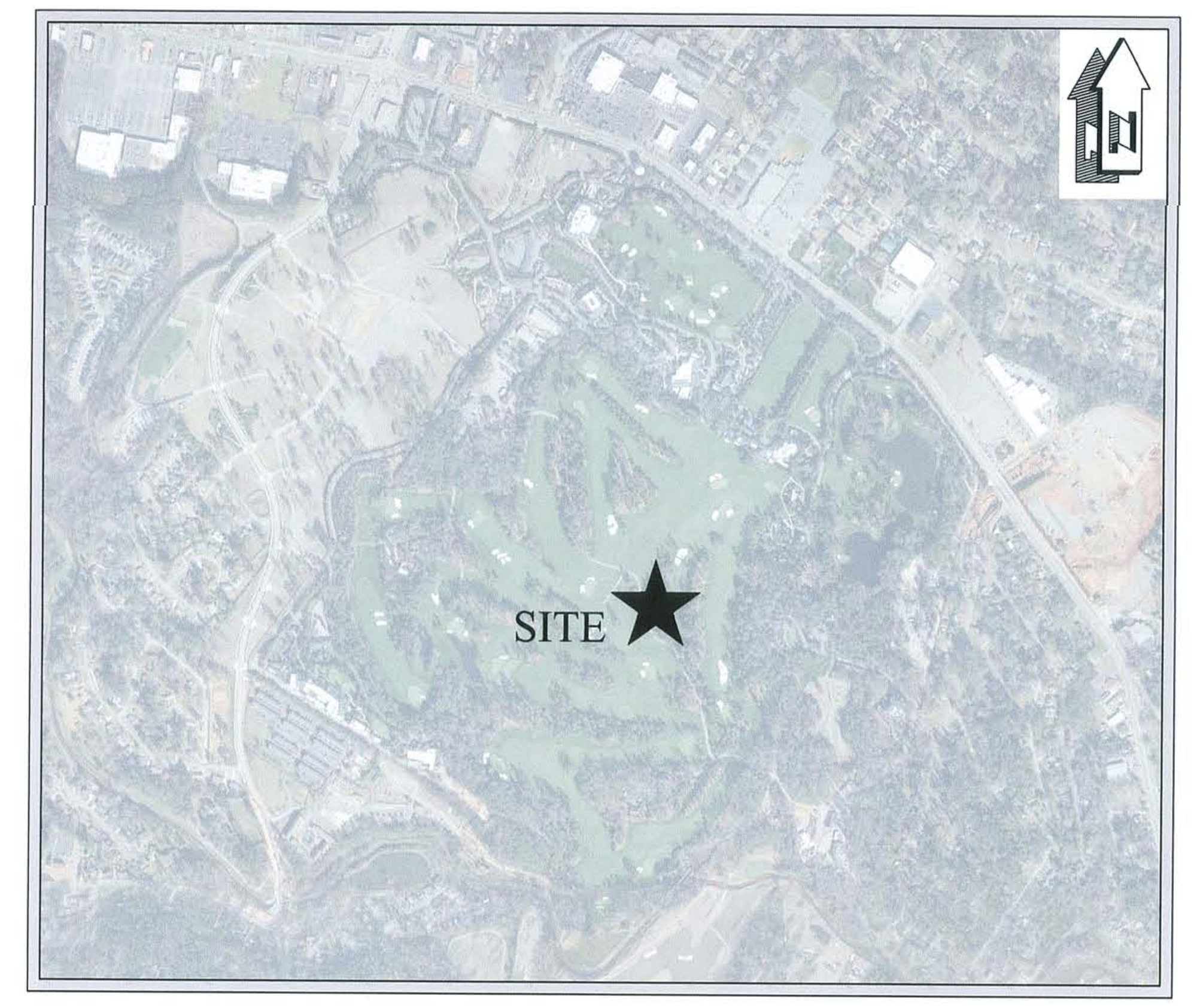
PREPARED FOR

AUGUSTA NATIONAL GOLF CLUB

2604 WASHINGTON RD
AUGUSTA GA, 30904



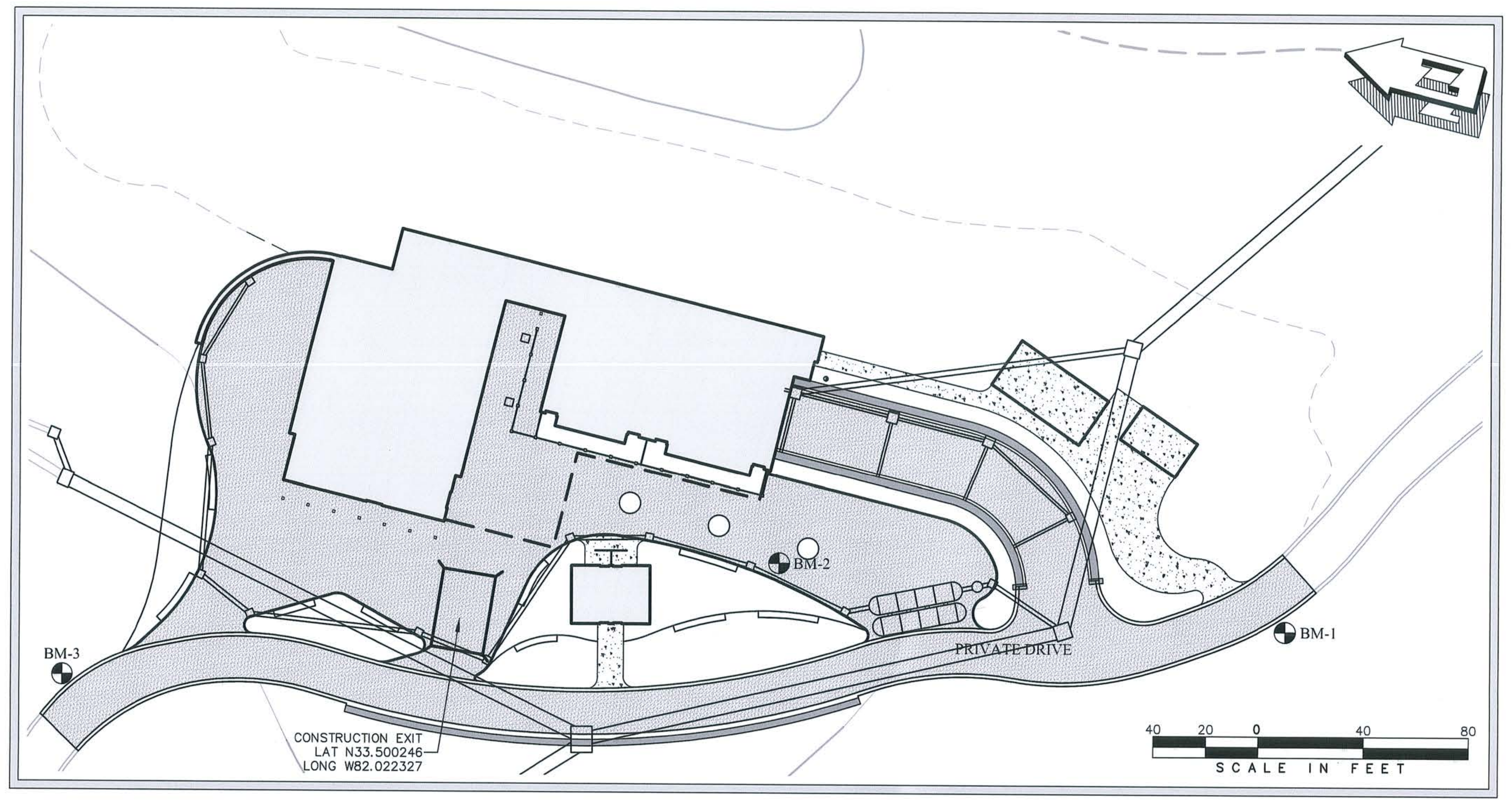
VICINITY MAP
N.T.S.



LOCATION MAP
N.T.S.

BECK ARCHITECTURE
3500 LENOX RD
SUITE 250
ATLANTA, GA 30326
PH: 404-949-2300
FAX: 404-949-2301
WWW.BECKARCHITECTURE.COM

CRANSTON



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PROJECT DATA:

1. ACREAGE OF PROPERTY: 403.12 ACRES
2. ACREAGE OF DEVELOPMENT: 2.25 ACRES
3. OWNER/DEVELOPER:
   ANI
   2604 WASHINGTON RD
   AUGUSTA GA, 30904
   PHONE: 706–667–6301
   24 HOUR CONTACT:
   NAME: W.BRAD OWEN
   PHONE: 706–829–9368
4. TAX MAP & PARCEL NUMBERS: 019–0–062–00–0
5. ZONING: R–1
6. STORM WATER OUTFALL: EXISTING 48"RCP
7. DRAINAGE AREA THIS PROJECT: 2.25 ACRES
8. IMPERVIOUS AREA:
   EXISTING: 0.40 ACRES
   PROPOSED: 1.16 ACRES
9. PERVIOUS AREA:
   EXISTING: 1.85 ACRES
   PROPOSED: 1.09 ACRES
10. RECEIVING STREAM: RAE'S CREEK
11. ULTIMATE STREAM: SAVANNAH RIVER
12. EXISTING LAND USE: GOLF COURSE AMENITIES
13. PROPOSED LAND USE: GOLF COURSE AMENITIES

GEORGIA PROFESSIONAL ENGINEER NO. 35714 R. BANKS TATE
R. Banks Tate
3/2/22
ENGINEER SEAL

CURRENT SUBMISSION:	DESIGN DEVELOPMENT	
#	DATE	SUBMISSION
-	02/25/22	CONSTRUCTION DOCUMENTS

PREPARED BY

CRANSTON

FEBRUARY 25, 2022

STORM WATER QUALITY TABLE

ID #	STRUCTURE #/LOCATION	TYPE OF FEATURE	MANUFACTURER/MODEL #	SHEET #	DESIGN FLOW	MAX FLOW
1	ADS STORMTECH CHAMBERS	UNDERGROUND DETENTION	MC4500	C504	476 CF	1873 CF
2	GT E1, GT E7	SWQ INSERT	CONTECH, TRITON (TR1818)	C504	1338 CF	1338 CF

STORMWATER QUALITY SYMBOL AT EACH FEAUTRE ON SITE PLAN WHICH CORRESPONDS TO THE ITEM ON THE CHART. ✕ WQ–XX

TOTAL WATER QUALITY VOLUME REQUIRED 1814 CF
TOTAL WATER QUALITY VOLUME PROVIDED 3211 CF

BENCHMARK DATA

NAME	DESCRIPTION	PT #	NORTHING	EASTING	ELEVATION
BM-1	ZTNS	4014	1272942.68	700238.50	256.20 (NAVD88)
BM-2	ZTNS	4012	1273135.85	700216.39	-
BM-3	ZTNS	3035	1273390.12	700108.11	-

BENCHMARK DATA:
1. COORDINATE SYSTEM IS STATE PLANE NAD 1983.
2. ALL DISTANCES SHOWN ARE GROUND.

GSWCC Georgia Soil and Water Conservation Commission
Robert Banks Tate
Level II Certified Design Professional
Certification Number 000052948
Issued: 05/01/2017 Expires: 05/01/2023

GEORGIA811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

HOLES 8 AND 18
PATRON HUB

COVER

173266
JOB NO.

C100
SHEET

LEGEND

MAJOR CONTOUR (EXISTING)		PROPOSED REDUCER
MINOR CONTOUR (EXISTING)		EXISTING POST INDICATOR
MAJOR CONTOUR (PROPOSED)		PROPOSED POST INDICATOR
MINOR CONTOUR (PROPOSED)		EXISTING SANITARY TAP
EXISTING BOUNDARY		EXISTING SANITARY CLEAN OUT
EXISTING ADJOINER		EXISTING WATER VALVE
PERMANENT EASEMENT		PROPOSED WATER GATE VALVE
TEMPORARY EASEMENT		PROPOSED SANITARY GATE VALVE
25' BUFFER		PROPOSED SANITARY VALVE
ENVIRONMENTALLY SENSITIVE AREA		EXISTING GAS METER
EDGE OF WATER		PROPOSED GAS METER
TREE LINE		EXISTING GAS VALVE
EXISTING OVERHEAD UTILITY (UNSPECIFIED)		PROPOSED GAS VALVE
EXISTING UNDERGROUND POWER	B-#	BORING
PROPOSED UNDERGROUND POWER	BM-#	BENCHMARK
EXISTING OVERHEAD POWER	ACP	AIR CONDITIONER
PROPOSED OVERHEAD POWER	BFP	BACKFLOW PREVENTER
EXISTING UNDERGROUND TELEPHONE	B	BOLLARD
PROPOSED UNDERGROUND TELEPHONE	CDP	CONCRETE DUMPSTER PAD
EXISTING OVERHEAD TELEPHONE	CO	CLEAN OUT
PROPOSED OVERHEAD TELEPHONE	CP	CONCRETE PAD
EXISTING UNDERGROUND CABLE	CMP	CORRUGATED METAL PIPE
PROPOSED UNDERGROUND CABLE	CPP	CORRUGATED PLASTIC PIPE
EXISTING FIBEROPTIC	CW	CHILLED WATER
PROPOSED FIBEROPTIC	DI	DROP INLET
EXISTING GAS	DIP	DUCTILE IRON PIPE
PROPOSED GAS	DWT	DOUBLE WING TRAP
EXISTING WATER	EBX	ELECTRICAL BOX
PROPOSED WATER	EF	ELECTRICAL FEED
EXISTING SANITARY SEWER	EO	ELECTRICAL OUTLET
PROPOSED SANITARY SEWER	F	FOUNTAIN
FENCE: EXISTING	FOBX	FIBEROPTIC BOX
FENCE: PROPOSED	FOM	FIBEROPTIC MONUMENT
FENCE: EXISTING CHAINLINK	FOPB	FIBEROPTIC PULLBOX
FENCE: PROPOSED CHAINLINK	FH	FIRE HYDRANT
FENCE: EXISTING STONE	FP	FLAG POLE
FENCE: PROPOSED STONE	GM	GAS METER
FENCE: EXISTING WIRE	GP	GUY POLE
FENCE: PROPOSED WIRE	GUY	GUY WIRE
EXISTING GUARDRAIL	GT	GRATE TRAP
PROPOSED GUARDRAIL	GV	GAS VALVE
ORANGE BARRIER FENCE OR C-POP SILT FENCE	GVP	GAS VENT PIPE
SILT FENCE	HBT	HOOD BACK TRAP
EXISTING BUILDING	ICV	IRRIGATION CONTROL VALVE
PROPOSED BUILDING	IE=	INVERT ELEVATION
EXISTING CONCRETE/PAVING	LP	LIGHT POLE
PROPOSED CONCRETE AND/OR PAVING	MB	MAIL BOX
EXISTING ASPHALT PAVING	MW	MONITORING WELL
PROPOSED ASPHALT PAVING	OTF	OPEN TOP FOUND
EXISTING GRAVEL PAVING OR RIP-RAP	PM	POWER METER
PROPOSED GRAVEL PAVING OR RIP-RAP	PO	POWER OUTLET
EXISTING BRICK PAVING	PP	POWER POLE
PROPOSED BRICK PAVING	PVC	POLYVINYLCHLORIDE PIPE
EXISTING UTILITY POLE	RCP	REINFORCED CONCRETE PIPE
PROPOSED UTILITY POLE	RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVETER
EXISTING STRAIN POLE	SAN	SANITARY SEWER
PROPOSED STRAIN POLE	SD	STORM DRAIN
EXISTING GUY WIRE	SH	SPRINKLER HEAD
PROPOSED GUY WIRE	STBX	STORM BOX
EXISTING ELECTRIC LIGHT	SWT	SINGLE WING TRAP
EXISTING LIGHT POLE	TD	TRUNCATED DOME
PROPOSED LIGHT POLE	TP	TELEPHONE PEDESTAL
EXISTING MANHOLE	TPB	TELEPHONE PULLBOX
PROPOSED MANHOLE	TSB	TRAFFIC SIGNAL BOX
EXISTING FIRE HYDRANT	TSC	TRAFFIC SIGNAL CABINET
PROPOSED FIRE HYDRANT	TSP	TRAFFIC SIGNAL POLE
EXISTING IRRIGATION VALVE	WM	WATER METER
PROPOSED IRRIGATION VALVE	WV	WATER VALVE
EXISTING WATER METER	WVB	WATER VALVE BOX
PROPOSED WATER METER	WVLT	WATER VAULT

GENERAL NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF TRANSPORTATION, THE AUGUSTA PUBLIC WORKS DEPARTMENT, AND THE PROJECT SPECIFICATIONS.
2. COORDINATE ROAD CLOSINGS AND DETOURS WITH THE AUGUSTA-RICHMOND COUNTY PUBLIC WORKS & ENGINEERING DEPARTMENT (706) 821-1706.
3. *CERTIFIED FLAGGERS AND/OR ARROW BOARDS WILL BE REQUIRED TO MAINTAIN TRAFFIC CONTROL WHILE WORKING WITHIN THE LIMITS OF PUBLIC OR PRIVATE ROADWAYS.*
4. DATE OF SURVEY – MAY 25, 2021 BY CRANSTON ENGINEERING
5. THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS, OR INDICATED IN ANY WAY THEREBY, WHETHER BY DRAWINGS OR NOTES OR ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY AND ARE NOT GUARANTEED.
6. THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE OWNER IN THE EVENT THAT PREVIOUSLY UNKNOWN HISTORICAL OR ARCHEOLOGICAL SITES ARE DISCOVERED DURING CONSTRUCTION. NO ADDITIONAL WORK IN SUCH AREAS WILL BE ALLOWED UNTIL AUTHORIZED.
7. ALL CONSTRUCTION OF WATER & SANITARY SEWER LINES SHALL BE IN ACCORDANCE WITH AUGUSTA UTILITIES DEPARTMENT'S STANDARDS & SPECIFICATIONS.
8. ALL STRUCTURES, TREES AND SHRUBS WHICH ARE WITHIN THE DESIGNATED CONSTRUCTION EASEMENT, BUT OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE DISTURBED UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER.
7. CONTRACTOR IS TO CLEAN ALL STORM WATER INLETS AND PIPE AT THE COMPLETION OF CONSTRUCTION TO REMOVE ANY SILT AND DEBRIS. THE CLEANING OF DROP INLETS, CULVERTS, AND PIPES (EXISTING AND PROPOSED) SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT, NO ADDITIONAL PAYMENT WILL BE MADE THEREFOR.
8. UNSUITABLE AND SURPLUS EXCAVATION MATERIAL NOT REQUIRED FOR FILL SHALL BE DISPOSED OF OFFSITE UNLESS ONSITE WASTE OR SPOIL AREAS ARE PROVIDED.
9. THE COST OF INSPECTION BY AUGUSTA-RICHMOND COUNTY'S DEPARTMENT OF PUBLIC WORKS & ENGINEERING , BEFORE OR AFTER REGULAR WORKING HOURS, ON SATURDAYS, SUNDAYS OR LEGAL HOLIDAYS, SHALL BE PAID FOR BY THE INDIVIDUAL REQUESTING THE INSPECTION AT A RATE OF 1-1/2 TIMES THE REGULAR SALARY OF THE INSPECTOR PLUS 7.65% FROM THE EMPLOYERS FICA/MEDICARE MATCH. APPROVAL FOR THE INSPECTION OUTSIDE OF NORMAL WORKING HOURS SHALL BE OBTAINED FROM THE COUNTY ENGINEER 48 HOURS IN ADVANCE. PRIOR TO THE COMMENCEMENT OF WORK REQUIRING INSPECTION OUTSIDE OF NORMAL WORKING HOURS, THE INDIVIDUAL REQUESTING THE INSPECTION SHALL SIGN A FORM WHICH IS FURNISHED BY THE DEPARTMENT OF PUBLIC WORKS & ENGINEERING AGREEING TO PAY THE OVERTIME. THE INDIVIDUAL REQUESTING THE INSPECTION WILL BE BILLED BY THE DEPARTMENT OF PUBLIC WORKS & ENGINEERING FOR PAYMENT.
10. DISTURBANCES TO ANY SURVEY MARKERS OR MONUMENTS REQUIRES RE-ESTABLISHMENT BY A LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.
11. ANY DISCREPANCIES, ERRORS, OR OMISSIONS DISCOVERED ON THE PLANS OR IN THE SPECIFICATIONS SHOULD BE NOTED ON THE CONTRACTORS PROPOSAL AND DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO CORRECT THE SAME.
12. ADDITIONAL CLEARING AND GRUBBING BEYOND THE LIMITS SHOWN SHALL BE AT THE CONTRACTORS DISCRETION, SUBJECT TO THE OWNER'S APPROVAL, TO FACILITATE CONSTRUCTION.
13. EXACT LOCATIONS OF PROPOSED WATER AND SEWER MAINS SHALL BE DETERMINED DURING CONSTRUCTION. FINAL PLACEMENT SHALL BE COORDINATED BY THE CONTRACTOR AND LOCATED IN SUCH A MANNER AS TO NOT CONFLICT WITH THE OTHER UTILITIES WITHIN THE RIGHT-OF-WAY OR EASEMENTS.
14. ALL CONSTRUCTION WITHIN AUGUSTA RIGHTS-OR-WAY SHALL CONFORM TO AUGUSTA, GEORGIA STANDARD SPECIFICATIONS.
15. THE AUGUSTA DEPARTMENT OF PUBLIC WORKS AND ENGINEERING (706-821-1706) SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE DURING REGULAR HOURS (8:30 AM TO 5:00 PM, MONDAY THROUGH FRIDAY, EXCLUDING AUGUSTA, GA HOLIDAYS) BEFORE THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.
16. A RIGHT-OF-WAY ENCROACHMENT PERMIT SHALL BE OBTAINED FROM THE PUBLIC WORKS DEPT. PRIOR TO COMMENCING WORK WITHIN AUGUSTA/RICHMOND COUNTY RIGHT-OF-WAY.
17. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD WITH THE CITY ENGINEER OR HIS REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION. THIS MEETING SHALL BE SCHEDULED WITH THE DEPARTMENT AT THE TIME THE NOTIFICATION OF WORK COMMENCEMENT IS GIVEN.
18. THE OWNER OF THE PROPERTY AFFECTED BY THIS DEVELOPMENT PLAN APPROVAL, PRIOR TO REQUESTING APPROVAL OF THE FINAL PLAT, I WILL SUBMIT A NOTARIZED STATEMENT AS FOLLOWS: "I CERTIFY THAT THE SITE IMPROVEMENTS ARE COMPLETE & IN ACCORDANCE WITH THE APPROVED PLANS & SPECIFICATIONS." THIS CERTIFICATE WILL BE BASED ON OBSERVATIONS OF & SUPERVISION OF CONSTRUCTION BY MY REPRESENTATIVE OR THE OWNER. THE OWNER UNDERSTANDS THE CERTIFICATE OF OCCUPANCY WILL NOT BE APPROVED UNTIL THIS CERTIFICATION HAS BEEN MADE.
19. APPROVAL BY AUGUSTA, GEORGIA IS FOR THE IMPROVEMENTS SHOWN ON THE DEVELOPMENT PLAN. ANY VARIATION FROM THE APPROVED PLAN MUST BE APPROVED BY THE CITY ENGINEER.
20. ALL DRAINAGE EASEMENTS & DISTURBED AREAS MUST BE GRASSED AND/OR RIP-RAPPED AS REQUIRED TO CONTROL EROSION.
21. ALL SILT BARRIERS MUST BE PLACED IMMEDIATELY FOLLOWING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIERS INSTALLATION IS COMPLETED.
22. ACCORDING TO THE FEMA FIRM PANEL NO. 0100, DATED NO PORTIONS OF THIS PROJECT LIES WITHIN THE 100-YEAR FLOOD PLAIN.
23. THE OWNER/DEVELOPER WILL BE RESPONSIBLE FOR THE INITIAL INSTALLATION OF ALL TRAFFIC CONTROL SIGNALS.
24. THE CONTRACTOR WILL BE REQUIRED TO HAVE ON SITE A COPY OF GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND CONSTRUCTION STANDARD DETAILS, CURRENT EDITION.
25. WETLANDS DELINEATION WAS PERFORMED BY RESOURCE & LAND CONSULTANTS, INC. IN JULY 2021.
26. AN ELECTRONIC COPY OF THE AS-BUILT OF THIS PROJECT WILL BE PROVIDED TO THE AUGUSTA ENGINEERING DEPARTMENT PRIOR TO ANY CO BEING ISSUED.
27. A 4 FOOT BY 4 FOOT PAD 6 INCHES IN DEPTH OF 3000# CONCRETE SHALL BE POURED AROUND ALL MANHOLES IN THE ROADWAY 2 INCHES BELOW FINISHED GRADE TO INSURE COMPACTION AROUND SAID MANHOLES.
28. ANY ENCROACHMENT INTO THE RIGHT-OF-WAY WILL REQUIRE A SEPARATE "ENCROACHMENT PERMIT" FROM AED PRIOR TO ANY WORK.
29. ANY ENCROACHMENT INTO THE RIGHT-OF-WAY WHICH POSES A RESTRICTION TO TRAFFIC FLOW OR ENDANGERS THE MOTORING PUBLIC SHALL REQUIRE A TRAFFIC CONTROL PLAN PRIOR TO APPROVAL OF PLAN.
30. THE EXISTENCE, ABSENCE, LOCATION AND ELEVATION OF UNDERGROUND UTILITIES ON THE PLANS ARE NOT BASED ON FIELD MARKS, ARE NOT GUARANTEED, AND SHALL BE INVESTIGATED, UNEARTHED IF NECESSARY, AND VERIFIED BY CONTRACTOR BEFORE BEGINNING CONSTRUCTION.
31. ALL UNDERGROUND UTILITIES SHALL BE FIELD LOCATED AND MARKED BEFORE BEGINNING CONSTRUCTION.
32. NO EXTRA PAYMENT WILL BE MADE FOR REPAIRS TO DAMAGE OF EXISTING UTILITIES.
33. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, ABOVE GROUND OR UNDERGROUND, POWER POLES, ETC.; CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH APPROPRIATE UTILITIES PRIOR TO OR DURING CONSTRUCTION.
34. NOTIFY AUGUSTA UTILITIES DEPARTMENT BEFORE DIGGING NEAR WATER AND SANITARY SEWER LINES.
35. THE CONTRACTOR SHALL CONTACT THE UTILITIES PROTECTION INC. "CALL BEFORE YOU DIG" SERVICE, 811 IN ORDER TO LOCATE UTILITIES PRIOR TO STARTING ANY EXCAVATION OR CONSTRUCTION.
36. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY IN PLANS, AND ARE NOT NECESSARILY ACCURATE IN LOCATION AS TO PLAN OR ELEVATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
37. THE CONTRACTOR WILL NOT BE PAID FOR DELAYS OR EXTRA EXPENSE CAUSED BY UTILITY FACILITIES, OBSTRUCTIONS, OR ANY OTHER ITEMS NOT REMOVED OR RELOCATED TO CLEAR CONSTRUCTION IN ADVANCE OF HIS WORK.
38. CONTRACTOR TO VERIFY IE AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND PIPES BEFORE COMMENCING CONSTRUCTION, INCLUDING TEST DIGGING, WELL IN ADVANCE OF PIPE LAYING ACTIVITIES.
39. REPLACED/RELOCATED AND NEW WATER MAINS MUST BE TESTED BY THE CONTRACTOR AND APPROVED BY THE AUGUSTA UTILITIES DEPARTMENT BEFORE BEING PUT INTO SERVICE.
40. THE CONTRACTOR IS REQUIRED TO NOTIFY THE AUGUSTA UTILITIES DEPT. AT LEAST 72 HOURS IN ADVANCE OF ANY PLANNED SUSPENSION OF WATER SERVICE. THE CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM THE AUGUSTA UTILITIES DEPT. PRIOR TO SUSPENDING OR INTERRUPTING WATER SERVICE.
41. THE CONTRACTOR IS RESPONSIBLE FOR ALL ASPECTS OF ANY WATER AND/OR SANITARY SEWER LINE RELOCATION, INCLUDING BUT NOT LIMITED TO SCHEDULING, LOCAL AUTHORITY NOTIFICATIONS. THE OPERATION OF THE WATER SYSTEM VALVES, IF ANY, SHALL BE THE RESPONSIBILITY OF THE OWNER BUT SHALL BE COORDINATED BY THE CONTRACTOR.
42. IF IN THE COURSE OF CONSTRUCTION A CONFLICT ARISES BETWEEN THE NEW WORK AND THE EXISTING WATER AND SEWER FACILITIES, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR, AT HIS EXPENSE AND NOT AUD'S, TO CORRECT THE DISCREPANCY AS DIRECTED BY A REPRESENTATIVE OF AUD.
43. AN AUD INSPECTOR SHALL BE PRESENT WHEN A TAP OR TIE-IN OCCURS FOR WATER AND SANITARY SEWER.

TREE LEGEND

ASH	ASH	CYP	CYPRESS	HO	HOLLY	PE	PECAN
BI	BIRCH	DW	DOGWOOD (FLOWERING)	JAP	JAPANESE MAPLE	PN	PINE
CA	CAMELLIA	ERC	EASTERN RED CEDAR	JPH	JAPANESE HOLLY	PO	POPLAR
CE	CEDAR	FR	FRUIT TREE	MAG	SOUTHERN MAGNOLIA	PR	PEAR
CBR	CHINABERRY	GBL	GINKO BILOBA	MP	MAPLE	SG	SWEETGUM
CH	CHERRY	GUM	GUM	MULTI	MULTI-TRUNK	SUB	SUGARBERRY
CHP	CHINESE PISTACHIO	HI	HICKORY	OAK	OAK	SYC	SYCAMORE
CR	CRAPE MYRTLE	HKB	HACKBERRY	PA	PALMETTO	TREE	UNKNOWN TREE TYPE

GENERAL AUD NOTES:

1. ALL CONSTRUCTION OF WATER DISTRIBUTION SYSTEMS AND WASTEWATER COLLECTION SYSTEM LINES SHALL BE IN ACCORDANCE WITH AUGUSTA UTILITIES DEPARTMENT (AUD) WATER & SANITARY SEWER SYSTEMS-DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND DETAILS (LATEST PUBLICATION).
2. *THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATION, SIZE, AND MATERIAL OF ANY EXISTING WATER OR* SANITARY SEWER UTILITY PROPOSED FOR CONNECTION OR USE BY THE PROJECT.
3. CONTRACTOR SHALL CONTACT THE UTILITIES PROTECTION INC. "CALL BEFORE YOU DIG" SERVICE (811) IN ORDER TO LOCATE UTILITIES PRIOR TO STARTING ANY EXCAVATION OR CONSTRUCTION. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON PLANS ARE APPROXIMATE AS DETERMINED FROM EXISTING RECORDS.
4. THE CONTRACTOR SHALL COORDINATE THE WORK OF THE UTILITY COMPANIES.
5. THE AUGUSTA ENGINEERING DEPARTMENT (AED) SHALL BE NOTIFIED AT LEAST 48 HOURS (TWO WORKING DAYS) IN ADVANCE DURING REGULAR WORKING HOURS (8:30AM TO 5:00PM, MONDAY-FRIDAY, EXCLUDING AUGUSTA, GEORGIA HOLIDAYS) PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY WITHIN AUGUSTA, GEORGIA RIGHT-OF-WAY. CONTACT AED AT (706-821-1706).
6. THE AUD ENGINEERING DIVISION SHALL BE NOTIFIED AT LEAST 48 HOURS (TWO WORKING DAYS) IN ADVANCE DURING REGULAR WORKING HOURS (8:30 AM TO 5:00 PM, MONDAY, FRIDAY, EXCLUDING AUGUSTA, GEORGIA HOLIDAYS) PRIOR TO ANY CONSTRUCTION, TIE-INS, OR TESTING OF WATER OR WASTEWATER UTILITIES. NO WORK SHALL COMMENCE UNTIL CONTACT IS MADE WITH THE PROJECT'S AUD INSPECTIONS REPRESENTATIVE.
7. DISTURBANCE OF ANY SURVEY MARKERS OR MONUMENTS REQUIRES RE-ESTABLISHMENT BY A PROFESSIONAL LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE. DOCUMENTATION OF THE WORK MUST BE PRESENTED TO THE AUD ENGINEERING DIVISION BEFORE THE PROJECT IS COMPLETED.
8. ANY DISCREPANCIES, ERRORS, OR OMISSIONS DISCOVERED ON PLANS OR IN THE SPECIFICATIONS SHOULD BE NOTED ON THE CONTRACT PROPOSAL AND DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO CORRECT THE SAME.
9. ALL CONCRETE SHALL AND HAVE MINIMUM 28-DAY STRENGTH OF 3,000 PSI.
10. IF A CONFLICT ARISES BETWEEN THE NEW WORK AND THE EXISTING WATER AND SEWER UTILITIES DURING THE COURSE OF CONSTRUCTION, IT WILL BE THE RESPONSIBILITY OF THE OWNER/DEVELOPER/CONTRACTOR, AT THEIR EXPENSE AND NOT AUD'S, TO CORRECT THE DISCREPANCY AS DIRECTED BY A REPRESENTATIVE OF AUD.
11. ALL EXISTING AUGUSTA ROAD STRUCTURES SUCH AS STORM MANHOLES, INLET BOXES, ETC., SHALL BE MAINTAINED AND OR ADJUSTED AS IS APPROPRIATE TO ENSURE PROPER USE.
12. ALL MATERIALS DEEMED SALVAGEABLE BY AUD ARE THE PROPERTY OF AUGUSTA, GEORGIA AND WILL BE REMOVED AND STORED ON SITE IN A SECURED AREA DETERMINED DURING CONSTRUCTION BY THE CONTRACTOR, AND AUGUSTA UTILITIES DEPARTMENT.
13. FOR PRIVATE DEVELOPMENTS, AUD SHALL NOT BE RESPONSIBLE FOR PAVEMENT PATCHING AND/OR REPLACEMENT AND THE SITE RESTORATION WHENEVER AUD PERFORMS REPAIR, REPLACEMENT OR INSTALLATION WORK.
14. IF AUD MUST REPAIR OR REPLACE UTILITIES ON THE WORK SITE, THEN THE RESPONSIBLE PARTY SHALL ARRANGE FOR ACCESS BY AUD AS REQUIRED TO REPAIR OR REPLACE THE UTILITY.
15. A MINIMUM (20') UTILITY EASEMENT CENTERED OVER ALL WATER LINES AND A MINIMUM 20' UTILITY EASEMENT CENTERED OVER ALL WASTEWATER LINES SHALL BE DEEDED TO AUGUSTA, GEORGIA AT COMPLETION AND ACCEPTANCE OF SAID LINES. EASEMENTS CONTAINING BOTH WATER AND SEWER SHALL BE 10' FROM THE CENTER OF THE UTILITY TO OUTSIDE OF THE EASEMENT, WHILE MAINTAINING MINIMUM SEPARATION REQUIREMENTS AS LISTED IN AUD'S WATER AND SANITARY SEWER SYSTEMS-DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS, AND DETAILS.
16. A RIGHT-OF-WAY ENCROACHMENT PERMIT SHALL BE OBTAINED FROM AED PRIOR TO COMMENCING ANY WORK WITHIN AN AUGUSTA, GEORGIA RIGHT-OF-WAY. THE UTILITIES ENCROACHMENT PERMIT MUST BE APPLIED FOR THROUGH AUD.
17. "A GEORGIA DOT RIGHT-OF-WAY ENCROACHMENT PERMIT MAY BE REQUIRED FOR WORK ON TEMPORARY OR PERMANENT STATE ROUTES. CONTACT AUD ENGINEERING DIVISION TO DETERMINE IF A PERMIT IS REQUIRED. THE UTILITIES ENCROACHMENT PERMIT MUST BE APPLIED FOR THROUGH AUD. CONDITIONS OF THE PERMIT MUST BE COMPLIED WITH FULLY. THE PERMIT MUST BE IN HAND A MINIMUM 24 HOURS NOTICE GIVEN TO GDOT PRIOR TO BEGINNING ANY WORK IN THE GDOT RIGHT-OF-WAY."
18. TRAFFIC CONTROL DEVICES SHALL MEET AND BE INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALSO, A TRAFFIC CONTROL/DETOUR PLAN SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL AS NOTED IN THE AUGUSTARICHMOND COUNTY, GEORGIA-RIGHTS OF WAY ENCROACHMENT GUIDELINES.
19. THE CONTRACTOR AND THE AUD REPRESENTATIVE SHALL HAVE A COPY OF THE AUGUSTARICHMOND COUNTY, GEORGIA-RIGHTS OF WAY ENCROACHMENT GUIDELINES DEVELOPMENT DOCUMENT #15, ADOPTED JUNE 1999, AMENDED AUGUST 2000. THE REQUIREMENTS SET FORTH IN THIS DOCUMENT SHALL BE ADHERED TO AT ALL TIMES.
20. CLEARING AND GRUBBING SHALL BE AT THE CONTRACTOR'S DISCRETION, SUBJECT TO AUD APPROVAL, TO FACILITATE CONSTRUCTION.
21. THE IMPLEMENTATION OF BEST MANAGEMENT PRACTICES (BMP'S) FOR EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA SHALL BE INSTALLED AND MAINTAINED AT ALL TIMES.

AUD WATER NOTES:

1. AN AUD INSPECTOR SHALL BE PRESENT OR SECTION LEFT UNCOVERED UNTIL INSPECTED BY THE INSPECTOR WHEN A TAP, TIE-IN OCCURS, RESTRAINED JOINTS ARE INSTALLED, BENDS, FITTINGS, FIRE HYDRANTS, VALVES AND PRESSURE TESTING. CONTRACTOR IS TO PROVIDE AT LEAST 48 HOUR NOTICE (TWO WORKING DAYS) IN ADVANCE DURING REGULAR WORKING HOURS (8:30 AM TO 5:00 PM, MONDAY-FRIDAY, EXCLUDING AUGUSTA, GEORGIA HOLIDAYS).
2. ALL PVC WATER LINES SHALL BE A MINIMUM DR-18 PVC MEETING AWWA C-900 AND/OR C-905, UNLESS OTHERWISE SHOWN OR SPECIFIED.
3. ALL DIP WATER LINES SHALL BE CLASS 350 FOR LINES 16" DIAMETER AND SMALLER, AND CLASS 300 FOR LINES 18" DIAMETER THROUGH 24" DIAMETER, UNLESS OTHERWISE SPECIFIED OR SHOWN.
4. ALL NEW WATER LINES SHALL BE INSTALLED PER PIPELINE MANUFACTURER RECOMMENDATIONS.
5. ALL WATER LINES SHALL BE TESTED, CHLORINATED, AND CHECKED FOR BACTERIA PER AUD'S WATER & SANITARY SEWER SYSTEMS-DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND DETAILS.
6. COPPER WIRE (12-GAUGE, INSULATED, SINGLE STRAND) SHALL BE ATTACHED ALONG TOP OF ALL BURIED WATER LINES, WRAPPED AROUND SERVICE CORPORATIONS AND BROUGHT UP ON THE OUTSIDE OF ALL VALVE BOXES, STUBBING OUT AT THE TOP TO FACILITATE TRACEABILITY. THIS WIRE SHALL BE PROPERLY SPLICED WITH A WATER PROOF CONNECTOR FOR ELECTRICAL CONNECTIVITY, AND THEN INSULATED TO PROTECT AGAINST CORROSION. (REFERENCE AUD DETAILS WHEN APPLICABLE).
7. DETECTOR TAPE SHALL BE 4 INCHES WIDE AND PLACED 2 FEET ABOVE PIPE. ADD SIMILAR DEVICE TO CONDUIT PER AUD DETAIL 4.3.
8. ALL WATER VALVES ON THE MAIN LINES, INCLUDING HYDRANT LATERALS, SHALL BE OPEN-LEFT IF INSTALLED SOUTH OF GORDON HIGHWAY (S.R. 10), OR OPEN-RIGHT IF INSTALLED NORTH OF GORDON HIGHWAY.
9. THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN A METER BOX AT THE TERMINATION POINT OF ALL WATER SERVICES. METER BOXES WILL IN NO WAY BE PLACED UNDER DRIVEWAYS. METER BOXES WILL PREFERABLY BE LOCATED IN THE CENTER OF THE LOT AND WITHIN 1' INSIDE OF THE R/W, AND MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME THE METER IS INSTALLED.
10. WATER SERVICES SHALL HAVE MINIMUM DIAMETER OF 1 INCH (REFERENCE AUD DETAILS WHEN APPLICABLE).
11. ANY EXISTING WATER SERVICE LINES WHICH ARE EXTENSIONS OFF AN EXISTING WATER MAIN TO BE ABANDONED DISCOVERED DURING CONSTRUCTION SHALL BE REPLACED. THESE NEW SERVICE LINES ARE TO TIE INTO THE NEW WATER MAIN AND BE RECONNECTED TO THE EXISTING WATER METER.
12. ALL EXISTING WATER SERVICES SHALL BE EXTENDED AND METER BOXES RELOCATED AS REQUIRED BEYOND THE LIMITS OF CONSTRUCTION. THE SERVICES SHALL BE CONNECTED TO THE NEW WATER MAIN AFTER SAID MAIN HAS BEEN STERILIZED, PRESSURE TESTED AND PUT INTO SERVICE. IN THE EVENT THAT THE SERVICE LINE IS NOT ACTIVE, A NEW WATER SERVICE WILL BE REQUIRED TO BE CONSTRUCTED.
13. ALL WATER METERS SHALL BE PURCHASED FROM AUD CONSTRUCTION AND MAINTENANCE DIVISION.
14. THE DEVELOPER/CONTRACTOR SHALL LOCATE WATER SERVICES AND VALVES BY ETCHING A "W" FOR THE WATER SERVICE AND A "V" FOR A VALVE IN THE CURB OR IN THE PAVEMENT IF NO CURB IS AVAILABLE, AND HIGHLIGHT THE ETCHING WITH BLUE PAINT PER THE APWA UNIFORM COLOR CODE. IN THE EVENT THAT THE VALVE IS LOCATED BEHIND THE CURB OR PAVEMENT, INVERT THE "V" MARKING SO THAT IT POINTS TO THE VALVE OUTSIDE THE ROADWAY.
15. FIRE HYDRANTS ARE TO BE LOCATED A MINIMUM OF ONE FOOT INSIDE EXISTING RIGHT-OF-WAY WITH A 3 FOOT RADIUS CLEARANCE.
16. EXISTING FIRE HYDRANTS AND METERS THAT ARE REMOVED SHALL BE TURNED OVER TO AUD.
17. PER AUD'S WATER & SANITARY SEWER SYSTEMS-DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND DETAILS:
    - A. FOR BACKFLOW INSTALLATIONS FOR NON-RESIDENTIAL DEVELOPMENT, A MINIMUM "DOUBLE-CHECK" BACKFLOW-PREVENTION DEVICE SHALL BE INSTALLED ON THE CUSTOMER'S SIDE OF ALL SERVICES.
    - B. FIRE LINES REQUIRE A MINIMUM "DOUBLE DETECTOR" BACKFLOW DEVICE.
    - C. FOR BACKFLOW INSTALLATIONS FOR RESIDENTIAL DEVELOPMENTS, A "DUAL CHECK" BACKFLOW DEVICE SHALL BE INSTALLED ON THE CUSTOMER'S SIDE OF THE SERVICE LINE AT THE POINT OF TIE-IN TO THE WATER METER.
    - D. FOR SOME MEDIUM HAZARD TO HIGH HAZARD LOCATIONS, A REDUCED PRESSURE ZONE (RPZ) BACKFLOW DEVICE WILL BE REQUIRED.
18. BACKFLOW DEVICES SHALL BE TESTED BY A CERTIFIED PERSON WITHIN FIVE (5) WORKING DAYS OF INSTALLATION AND THE RESULTS FURNISHED TO THE AUD BACK FLOW INSPECTOR WITHIN 10 WORKING DAYS OF INSTALLATION PRIOR TO ANY WATER USE. AUD SHALL BE NOTIFIED PRIOR TO TESTING CONTACT THE AUGUSTA UTILITIES BACK FLOW INSPECTOR AT 706-722-1639.

AUD SEWER NOTES:

1. AN AUD INSPECTOR SHALL BE PRESENT OR SECTION LEFT UNCOVERED UNTIL INSPECTED BY THE INSPECTOR WHEN A CORE, TAP, TIE-IN OCCURS, MANHOLE INSTALLED, AND ALL REQUIRED TESTING. CONTRACTOR IS TO PROVIDE AT LEAST 48 HOUR NOTICE (TWO WORKING DAYS) IN ADVANCE DURING REGULAR WORKING HOURS (8:30 AM TO 5:00 PM, MONDAY-FRIDAY, EXCLUDING AUGUSTA, GEORGIA HOLIDAYS).
2. THE CONTRACTOR IS TO VERIFY THE INVERT ELEVATIONS (I.E.) OF EXISTING PIPES PRIOR TO BEGINNING CONSTRUCTION.
3. SEWER FORCE MAIN SHALL BE PVC DR-18 C-900 OR C-905 AS APPLICABLE OR DIP CLASS 350, EPOXY LINED.
4. ALL NEW SEWER LINES SHALL BE INSTALLED PER PIPELINE MANUFACTURER REQUIREMENTS.
5. COPPER WIRE (12-GAUGE, INSULATED, SINGLE STRAND) SHALL BE ATTACHED ALONG TOP OF ALL BURIED SEWER LINES TO FACILITATE TRACEABILITY. THE WIRE SHALL RUN ALONG THE TOP OF THE MAIN AND ALONG INDIVIDUAL SERVICE LINES AND BROUGHT UP ON THE OUTSIDE OF ALL MANHOLES, CLEANOUTS, OR OTHER ABOVE GROUND FEATURES STUBBING OUT AT THE TOP FOR LOCATING PURPOSES. THIS WIRE SHALL BE PROPERLY SPLICED WITH A WATER PROOF CONNECTOR FOR ELECTRICAL CONNECTIVITY, AND THEN INSULATED TO PROTECT AGAINST CORROSION. (REFERENCE AUD DETAILS WHEN APPLICABLE).
6. DETECTOR TAPE SHALL BE 4 INCHES WIDE AND PLACED 2 FEET ABOVE PIPE ADD SIMILAR DEVICE TO CONDUIT PER AUD DETAIL 4.3.
7. ALL TIE-INS TO EXISTING MANHOLES SHALL BE CORED UNLESS OTHERWISE APPROVED BY AUD INSPECTOR.
8. ALL MANHOLES REQUIRE "K OR N SEAL" OR EQUAL, RUBBER BOOTS, UNLESS OTHERWISE APPROVED BY AUD INSPECTOR.
9. NO CONNECTION SHALL BE MADE TO EXISTING WASTEWATER LINES UNTIL THE PROPOSED LINE IS INSPECTED AND APPROVED BY AUD'S ENGINEERING DIVISION.
10. ALL WASTEWATER MANHOLES SHALL HAVE AN ELEVATION DROP OF 0.2 FOOT ACROSS THE INLET AND OUTLET INVERTS.
11. WASTEWATER CLEAN-OUTS SHALL BE INSTALLED AT ALL INDIVIDUAL SERVICES AS SHOWN IN AUD-DETAILS, AND SHALL NOT BE INSTALLED UNDER DRIVEWAYS OR ANY PAVED AREAS WITHOUT PRIOR APPROVAL FROM AUD.
12. SERVICE LINES TO SANITARY SEWER MAIN SHALL BE BEDDED PER THESE AUD SPECIFICATIONS AND AUD DETAILS.
13. MAXIMUM SANITARY SEWER INFILTRATION SHALL NOT EXCEED 100 GPD/INCH OF PIPE DIAMETER PER MILE.
14. THE CONTRACTOR SHALL LOCATE SANITARY SEWER SERVICES BY ETCHING AN "S" IN THE CURB OR IN THE PAVEMENT IF NO CURB IS AVAILABLE, AND HIGHLIGHT THE ETCHING WITH GREEN PAINT PER THE APWA UNIFORM COLOR CODE.
15. FINISHED FLOOR ELEVATIONS OF ALL PROPOSED BUILDINGS SHALL BE A MINIMUM OF FIVE (5) FEET ABOVE THE INVERT ELEVATION OF THE WASTEWATER MAIN OR MANHOLE AT THE POINT OF TIE-IN. IN INSTANCES WHERE THIS IS NOT POSSIBLE, A BACKWATER VALVE SHALL BE INSTALLED IN THE SEWER SERVICE.

GSWCC Georgia Soil and Water Conservation Commission
Robert Banks Tate
Level II Certified Design Professional
Certification Number 000052948
Issued: 05/01/2017 Expires: 05/01/2023

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CRANSTON

GEORGIA PROFESSIONAL ENGINEER NO. 35714 R. BANKS TATE
R. Banks Tate 3/2/22
ENGINEER SEAL

CURRENT SUBMISSION:		DESIGN DEVELOPMENT
#	DATE	SUBMISSION
-	02/25/22	CONSTRUCTION DOCUMENTS

HOLES 8 AND 18
PATRON HUB

LEGEND & GENERAL NOTES

173266
JOB NO.

C101
SHEET

BECK

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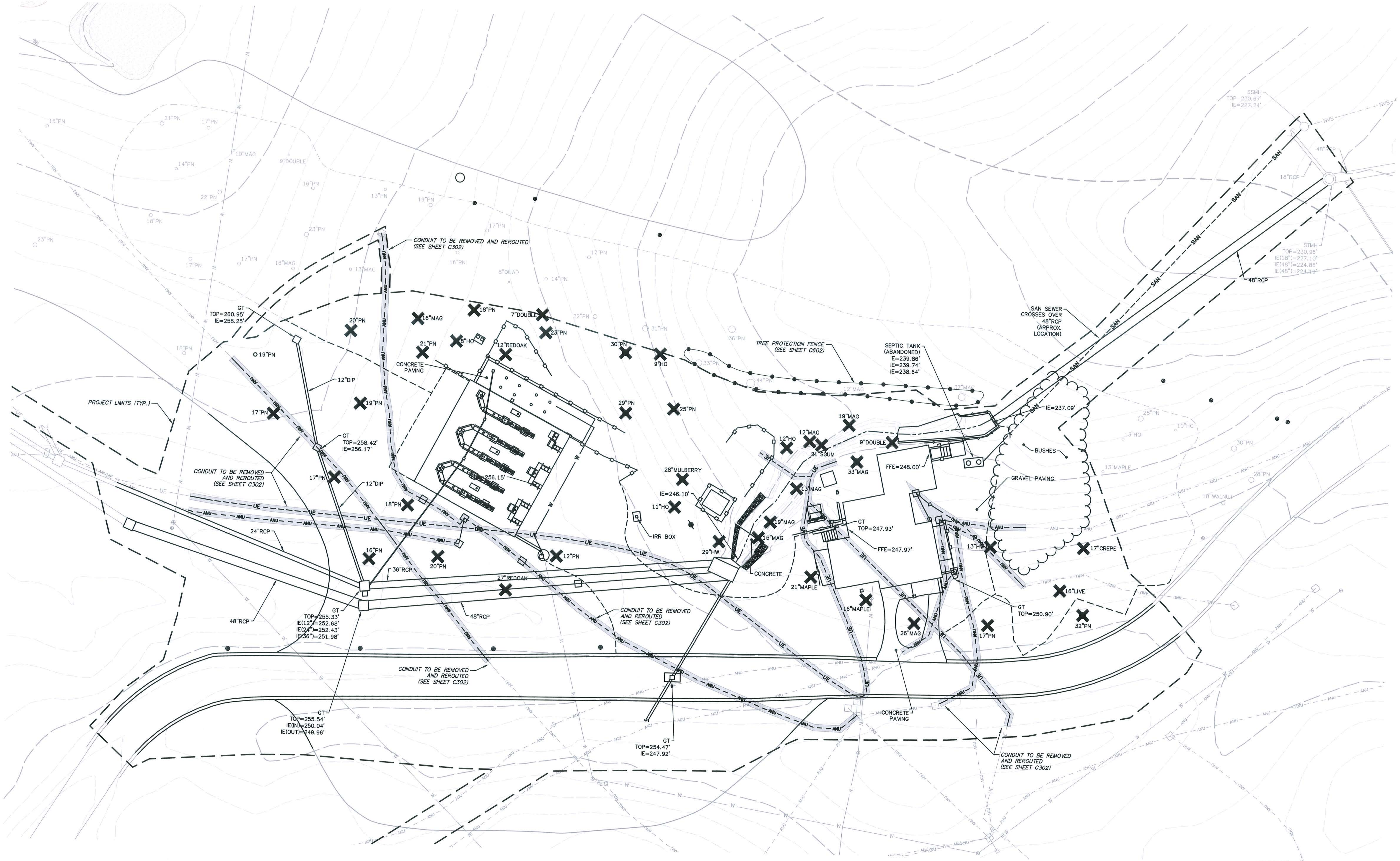


GENERAL DEMOLITION NOTES:

1. ITEMS TO BE DEMOLISHED ARE TO BE SHOWN AS BOLD, OUTLINED IN BOLD, OR DESCRIBED HEREIN.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THAT ALL EXISTING PIPES, FOOTINGS, SLABS, DEBRIS, ETC., THAT MAY CONFLICT WITH THE PROPOSED CONSTRUCTION HAVE BEEN REMOVED.
3. DEMOLITION INCLUDES REMOVAL OF ALL MATERIAL THAT MAY CONFLICT WITH THE PROJECT AT A MINIMUM DEPTH OF 18" THROUGHOUT THE SITE.
4. CONTRACTOR IS TO COORDINATE DEMOLITION OF GAS, TELEPHONE, TELEVISION, AND POWER UTILITIES WITH RESPECTIVE COMPANIES.
5. IF CONTRACTOR ENCOUNTERS ANY SUSPICIOUS, POSSIBLY HAZARDOUS MATERIALS, HE SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE.
6. THE DEMOLITION OF EXISTING BUILDINGS SHALL CONFORM TO ALL LOCAL, STATE, & FEDERAL REGULATIONS PERTAINING TO SUCH WORK. ALL MATERIAL SHALL BE DISPOSED OF OFFSITE. NO MATERIALS SHALL BE BURIED ON-SITE.
7. ALL EXISTING WATER SERVICES SHALL BE CAPPED AND METERS RETURNED TO AUGUSTA UTILITIES DEPARTMENT.
8. ALL EXISTING SEWER SERVICES SHALL BE CAPPED.
9. IF GRANITE CURB IS REMOVED, THE CONTRACTOR SHALL HANDLE WITH CARE TO PREVENT CHIPPING OR BREAKING. ALL GRANITE CURB SHALL BE DELIVERED TO THE CITY OF AUGUSTA AT A LOCATION DETERMINED BY THE ENGINEERING DEPARTMENT'S REPRESENTATIVE.
10. TREE, SHRUB AND VEGETATION REMOVAL IS A PART OF CLEARING AND GRUBBING. THE REMOVAL OF ALL VEGETATION INCLUDES THE ROOTS AND ALL ASSOCIATED ORGANIC MATTER.
11. WHEN TREES AND OTHER VEGETATION ARE REMOVED, THE CONTRACTOR SHALL FILL THE VOID WITH SELECT FILL, APPROVED BY THE OWNER'S REPRESENTATIVE, AND COMPACTED TO A MINIMUM OF 98% MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE UNLESS MORE STRINGENT REQUIREMENTS ARE SHOWN ELSEWHERE ON PLANS.

LEGEND

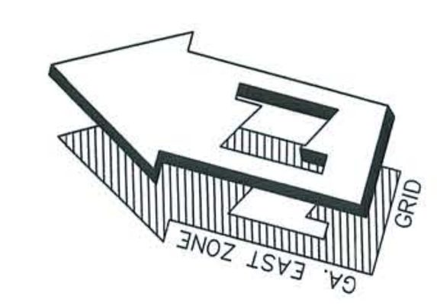
X TREE TO BE REMOVED

—●— TREE PROTECTION FENCE

PLAN

HORIZONTAL SCALE 1"=20'

20 10 0 20 40
SCALE IN FEET



GEORGIA PROFESSIONAL ENGINEER NO. 35714 R. BANKS TATE
R. Banks Tate 3/2/22
ENGINEER SEAL

CURRENT SUBMISSION:		DESIGN DEVELOPMENT
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HOLES 8 AND 18
PATRON HUB

EXISTING CONDITIONS & DEMOLITION PLAN

173266
JOB NO.

C200
SHEET

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ATLANTA, GA 30326
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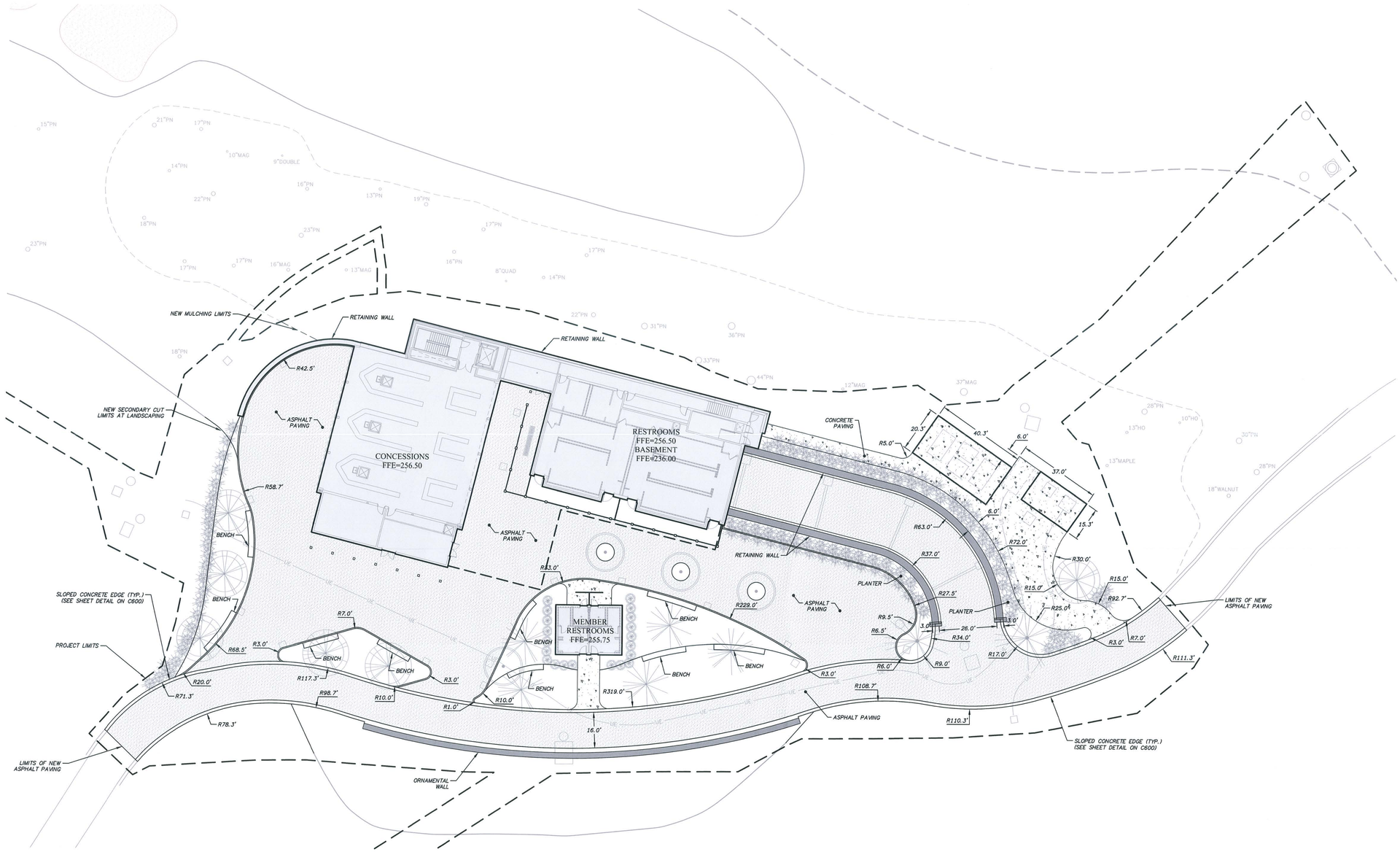

PLAN
HORIZONTAL SCALE 1"=20'

20 10 0 20 40
SCALE IN FEET

LEGEND

ASPHALT PAVING

CONCRETE PAVING

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3/2/22
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HOLES 8 AND 18
PATRON HUB

LAYOUT PLAN

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173266 JOB NO.

C300 SHEET

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SUITE 250
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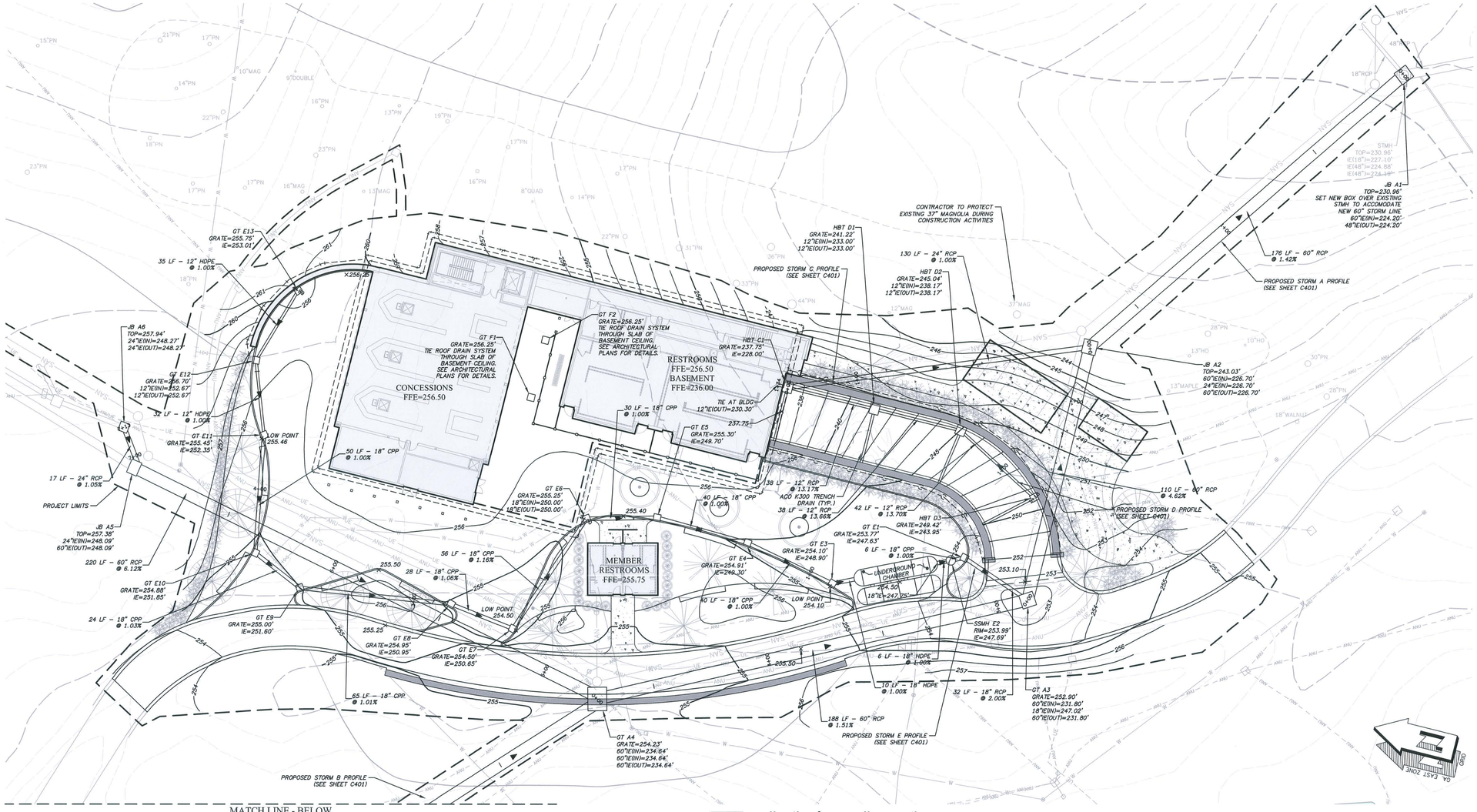
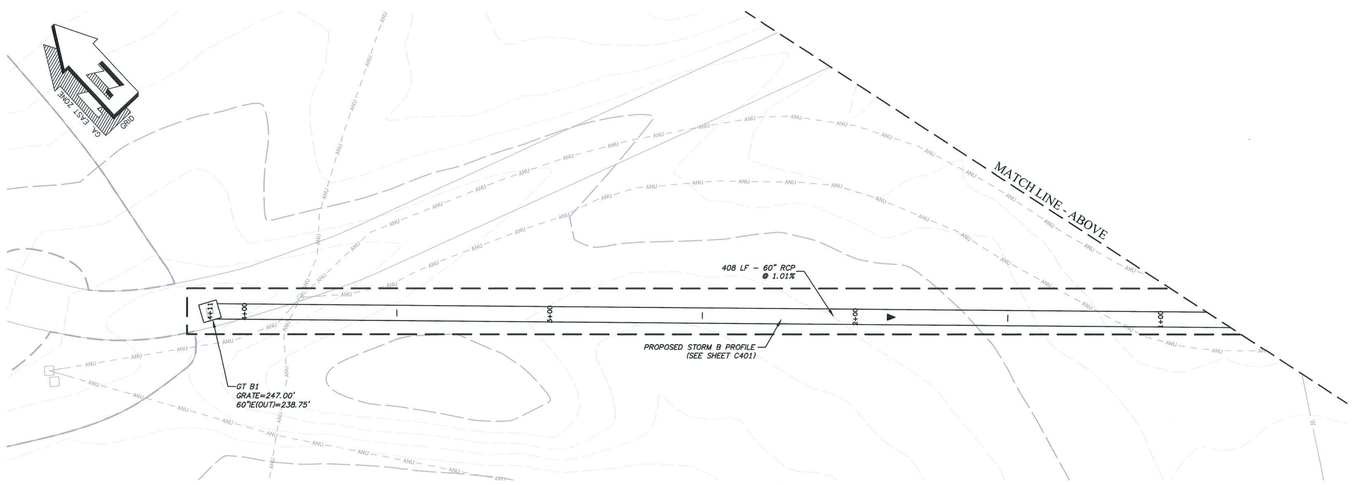


PLAN
HORIZONTAL SCALE 1"=20'
20 10 0 20 40
SCALE IN FEET



PLAN
HORIZONTAL SCALE 1"=20'
20 10 0 20 40
SCALE IN FEET

NOTE:
THE 87 LINEAR FEET OF INTERMITTENT STREAM BED TO BE FILLED BY THIS PROJECT HAS BEEN PERMITTED BY THE U.S. ARMY CORPS OF ENGINEERS UNDER NATIONWIDE PERMIT NO. 18. THE PERMIT IS USACE#SAS-2017-00692. A COPY OF THE PERMIT HAS BEEN INCLUDED IN THE SUBMITTAL PACKAGE.

GEORGIA PROFESSIONAL ENGINEER NO. 35714 R. BANKS TATE
R. Banks Tate
3/2/22
ENGINEER SEAL

CURRENT SUBMISSION:		DESIGN DEVELOPMENT
#	DATE	SUBMISSION
-	02/25/22	CONSTRUCTION DOCUMENTS

HOLES 8 AND 18
PATRON HUB

GRADING & DRAINAGE PLAN

GSWCC Georgia Soil and Water Conservation Commission
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Issued: 05/01/2017 Expires: 05/01/2023

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173266 JOB NO.

C301 SHEET

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MATCH LINE - SHEET C303

SSMH A7
RIM=258.09'
8"IE(IN)=255.10'
8"IE(OUT)=255.00'

TAPPING SLEEVE & VALVE

FH

NEW PULLBOX OVER EXISTING CONDUIT

17 LF – 8" PVC @ 33.04%

SSMH A6
RIM=257.49'
8"IE(IN)=249.26'
8"IE(OUT)=249.26'

SPLICE EXISTING UNDERGROUND ELECTRICAL AT THIS LOCATION AND RUN NEW LINES TO TRANSFORMER LOCATION

NEW PULLBOX OVER EXISTING CONDUIT

POTABLE WATER TAPPING SLEEVE & VALVE

PROJECT LIMITS

FIRE PROTECTION TAPPING SLEEVE & VALVE

214 LF – 8" PVC @ 1.50%

CONCESSIONS
FFE=256.50

RESTROOMS
FFE=256.50
BASEMENT
FFE=236.00

TIE AT BLDG
8"IE(OUT)=229.00'

6" PVC POTABLE WATER LINE

6" PVC FIRE PROTECTION LINE

6" 45° BENDS

6"x6" TEE

6" 90° EL

8" 45° BENDS

REROUTED UNDERGROUND ELECTRICAL

MEMBER RESTROOMS
FFE=255.75

NEW PULLBOX OVER EXISTING CONDUIT

SSMH A5
RIM=254.18'
8"IE(IN)=246.06'
6"IE(IN)=249.36'
8"IE(OUT)=245.96'

185 LF – 8" PVC @ 1.59%

PROPOSED SANITARY B PROFILE (SEE SHEET C400)

115 LF – 8" PVC @ 0.40%

NEW A-PACK OF ANU CONDUIT FROM EXISTING PULL BOX TO NEW BUILDING

SSMH A4
RIM=253.10'
8"IE(IN)=243.02'
8"IE(OUT)=242.92'

SSMH A3
RIM=242.61'
8"IE(IN)=239.07'
8"IE(IN)=228.49'
8"IE(OUT)=228.39'

163 LF – 8" PVC @ 0.50%

PROPOSED SANITARY A PROFILE (SEE SHEET C400)

SSMH A1
RIM=232.03'
8"IE(IN)=227.34'
8"IE(OUT)=227.24'

SSMH
TOP=230.67'
IE=227.24'

SSMH A2
RIM=233.00'
8"IE(IN)=227.58'
8"IE(OUT)=227.48'

27 LF – 8" PVC @ 0.50%

NEW TRANSFORMER AND SUB AIR LOCATION

NEW PULLBOX OVER EXISTING CONDUIT

110 LF – 8" PVC @ 3.50%

REROUTED CONDUIT RUN (TYP.)

SPLICE EXISTING UNDERGROUND ELECTRICAL AT THIS LOCATION AND RUN NEW LINE TO RELOCATED TRANSFORMER/SUB AIR PAD

PLAN
HORIZONTAL SCALE 1"=20'

20 10 0 20 40
SCALE IN FEET

NOTE:
TWO 500-GALLON GREASE INTERCEPTORS ARE TO BE INSTALLED INSIDE THE BASEMENT OF THE MAINTENANCE ROOM. ACCESS TO THE INTERCEPTORS IS PROVIDED BY VEHICULAR RAMP. DETAILS FOR THE GREASE INTERCEPTOR ARE SHOWN ON THE ARCHITECTURAL PLANS.

GEORGIA PROFESSIONAL ENGINEER
NO. 35714
R. BANKS TATE
3/2/22

ENGINEER SEAL

CURRENT SUBMISSION:		DESIGN DEVELOPMENT
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HOLES 8 AND 18
PATRON HUB

UTILITY PLAN

Robert Banks Tate
Level II Certified Design Professional
CERTIFICATION NUMBER 0000052948
ISSUED: 05/01/2017 EXPIRES: 05/01/2023

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173266 JOB NO.

C302 SHEET

BECK ARCHITECTURE
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CRANSTON

EXISTING SANITARY TO BE LEFT IN PLACE
MAY ACT AS EMERGENCY OVERFLOW IF NEEDED

SSMH A9
TIE NEW SANITARY SEWER
TO EXISTING MANHOLE
INVERT IN UNKNOWN
8"IE(OUT)=271.42'

MANHOLE HAS NOT
BEEN FIELD LOCATED

APPROX. 474 LF – 8" PVC
SLOPE TO BE DETERMINED IN FIELD

SSMH A8
RIM=263.00'
8"IE(IN)=258.10'
8"IE(OUT)=258.00'

197 LF – 8" PVC
@ 1.47%

PROPOSED SANITARY A PROFILE
(SEE SHEET C400)

MATCHLINE - SHEET C302

8"
8"IE(O

PLAN
HORIZONTAL SCALE 1"=40'

40 20 0 40 80
SCALE IN FEET

GRID
GA. EAST ZONE

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R. Banks Tate
3/2/22
ENGINEER SEAL

CURRENT SUBMISSION:		DESIGN DEVELOPMENT
#	DATE	SUBMISSION
-	02/25/22	CONSTRUCTION DOCUMENTS

HOLES 8 AND 18
PATRON HUB

EXISTING CONDITIONS &
DEMOLITION PLAN

173266
JOB NO.

C303
SHEET

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ALL PROPOSED TREES TO BE 3" IN CALIPER, 8' TALL, AND DEBRANCHED TO 6'

TREE PROTECTION FENCE (SEE SHEET C602)

RESTROOMS
FFE=256.50
BASEMENT
FFE=236.00

CONCESSIONS
FFE=256.50

MEMBER RESTROOMS
FFE=255.75

PROJECT LIMITS

PLAN
HORIZONTAL SCALE 1"=20'

20 10 0 20 40
SCALE IN FEET

TREE LEGEND

SYMBOL	COMMON NAME	QUANTITY
	HOLLY	6
	MAGNOLIA	7
	YELLOW PINE	4
	LILAC	80
	YEW	62

TREE PLAN NOTES AND DETAILS ARE LOCATED ON SHEET C602

PROJECT AREA	98, 010	SF		
TREE CANOPY NEEDED	29,403	SF		
TREE SIZE	NUMBER PROVIDED	CANOPY AREA (EA)	TOTAL CANOPY AREA	
SMALL	142	300	42,600	SF
MEDIUM	7	750	5,250	SF
LARGE	11	1400	15,400	SF
EXISTING TREES TO BE PROTECTED	4	1400	5,600	SF
	TOTAL CANOPY FOR WHOLE SITE		68,850	SF

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3/2/22
ENGINEER SEAL

CURRENT SUBMISSION:		DESIGN DEVELOPMENT
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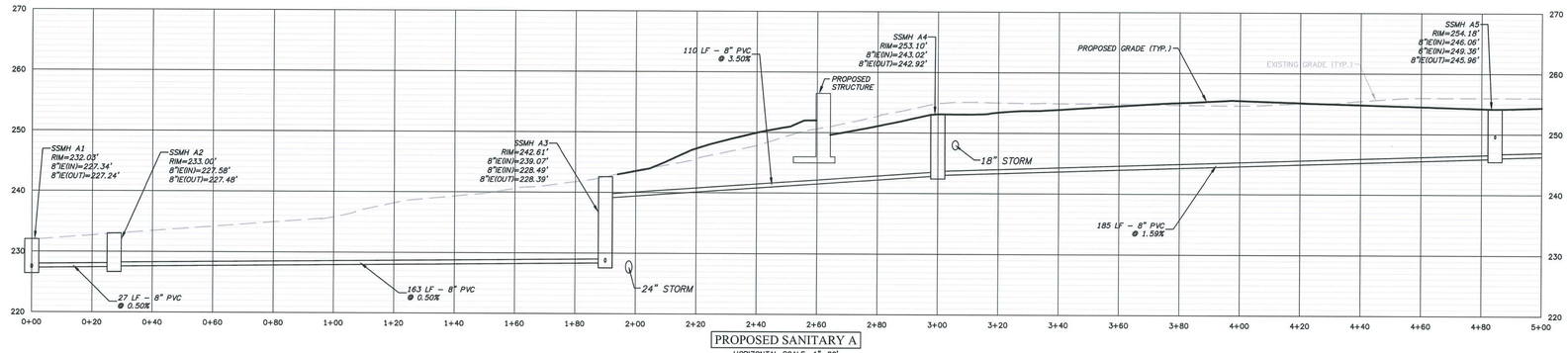
HOLES 8 AND 18
PATRON HUB

TREE PLAN

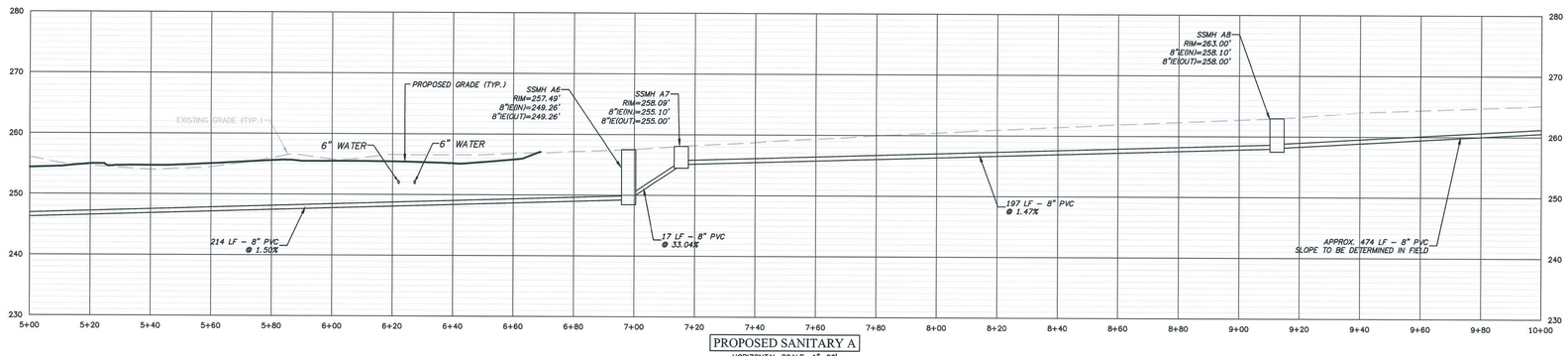
173266
JOB NO.

C304
SHEET



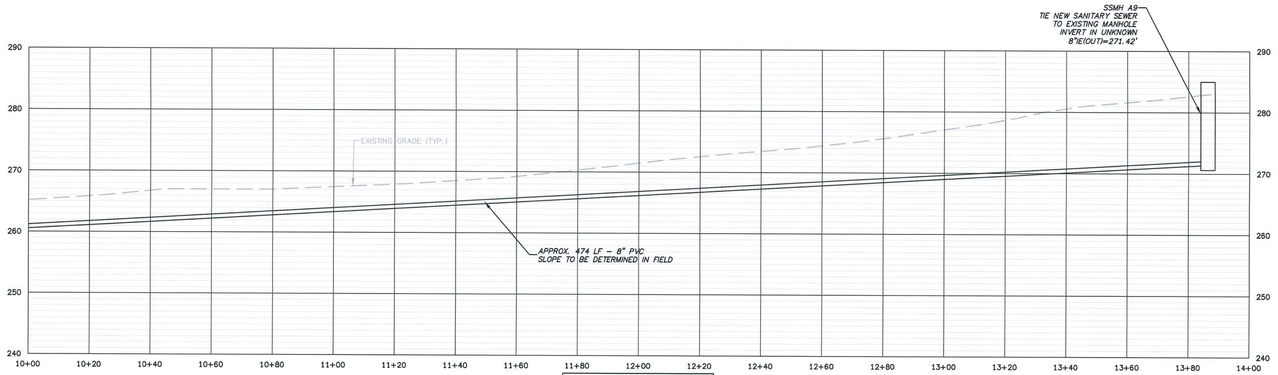
PROPOSED SANITARY A

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'



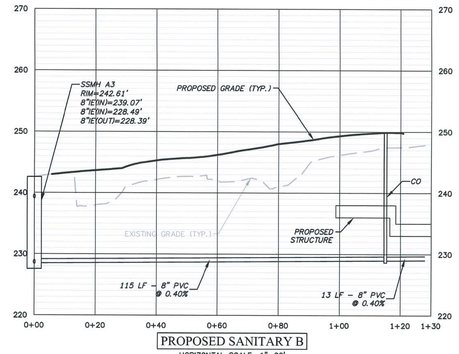
PROPOSED SANITARY A

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'



PROPOSED SANITARY A

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'



PROPOSED SANITARY B

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

BECK ARCHITECTURE
3500 LENOX RD
SUITE 250
ATLANTA, GA 30326
PH: 404-949-2300
FAX: 404-949-2301
WWW.BECKARCHITECTURE.COM

CRANSTON

GEORGIA PROFESSIONAL ENGINEER NO. 35714 R. BANKS TATE

3/2/22

ENGINEER SEAL

CURRENT SUBMISSION:		DESIGN DEVELOPMENT
#	DATE	SUBMISSION
-	02/25/22	CONSTRUCTION DOCUMENTS

HOLES 8 AND 18
PATRON HUB

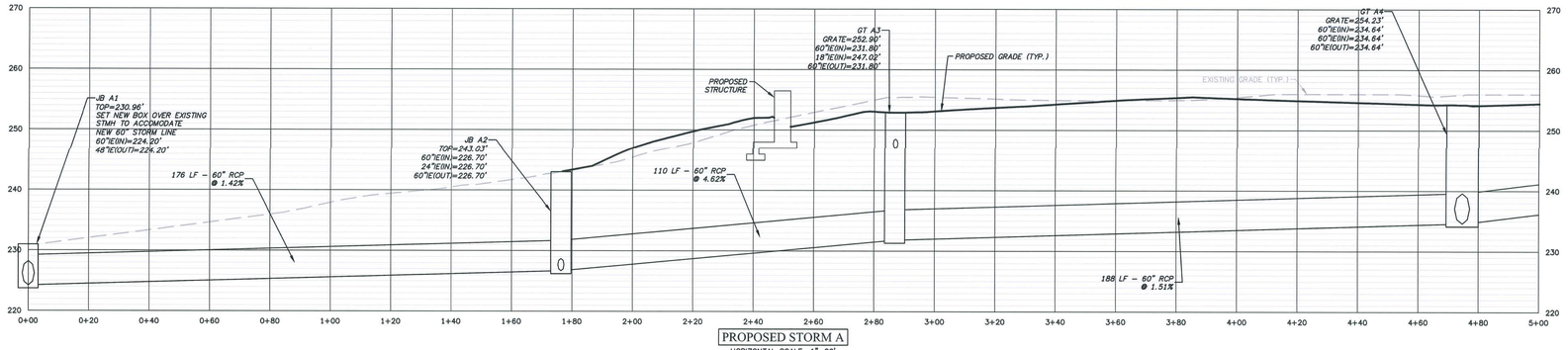
SANITARY PROFILES

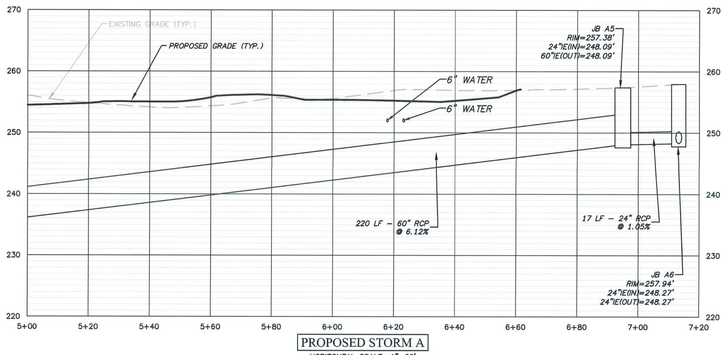
GSWCC Georgia Soil and Water Conservation Commission
Robert Banks Tate
Level II Certified Design Professional
Certification Number 0000052948
Issued: 05/01/2017 Expires: 05/01/2023

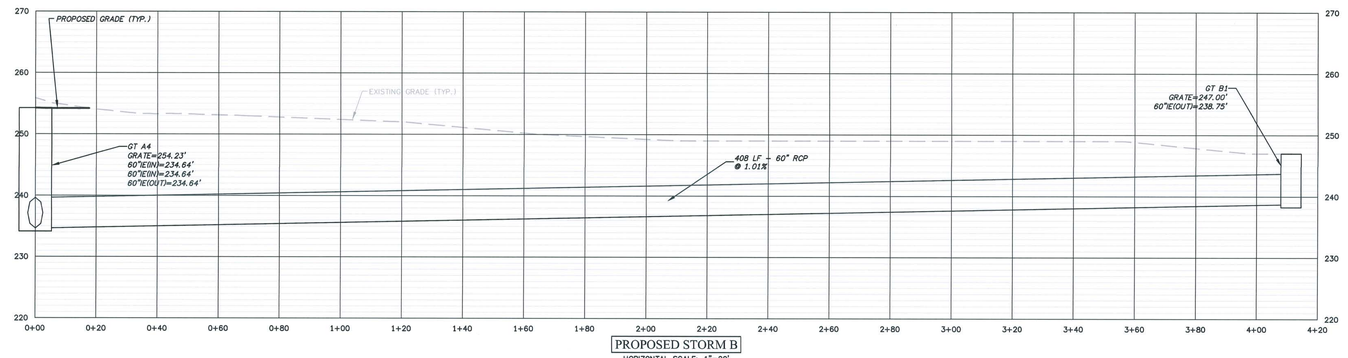
GEORGIA811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

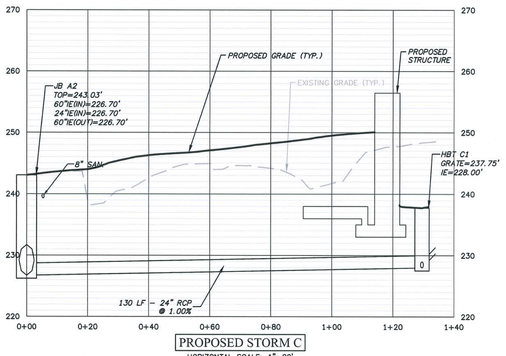
173266 JOB NO.

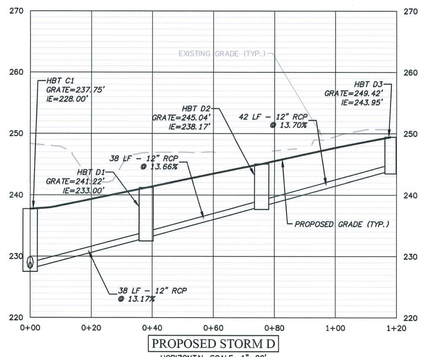
C400 SHEET

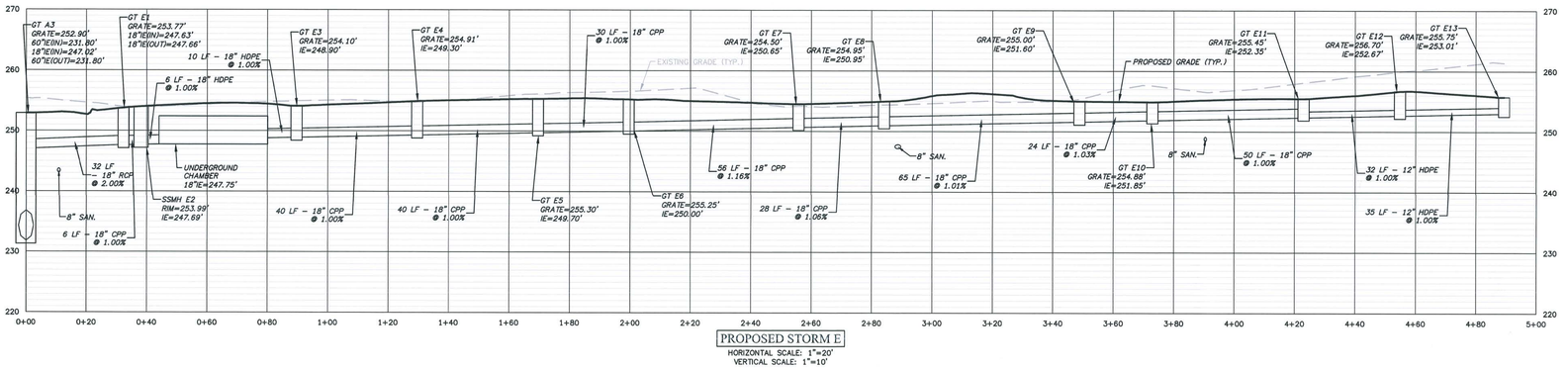












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CRANSTON

GEORGIA PROFESSIONAL ENGINEER NO. 35714 R. BANKS TATE

R. Banks Tate

3/2/22

ENGINEER SEAL

CURRENT SUBMISSION:		DESIGN DEVELOPMENT
#	DATE	SUBMISSION
-	02/25/22	CONSTRUCTION DOCUMENTS

HOLES 8 AND 18
PATRON HUB

DRAINAGE PROFILES

GSWCC Georgia Soil and Water Conservation Commission
Robert Banks Tate
Level II Certified Design Professional
Certification Number 0000032948
Issued 05/03/2017 Expires 05/01/2023

GEORGIA811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

173266 JOB NO.

C401 SHEET

GSWCC AND NPDES NOTES:

PROJECT NAME: HOLES 8 AND 18 PATRON HUB
ADDRESS: 2604 WASHINGTON RD
CITY/COUNTY: AUGUSTA/AUGUSTA-RICHMOND ZIP CODE: 30904
DATE ON PLANS: FEBRUARY 25, 2022

[X] GAR 100001 STAND ALONE [ ] GAR 100002 INFRASTRUCTURE [ ] GAR 100003 COMMON DEVELOPMENTS

1. THE APPLICABLE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN CHECKLIST ESTABLISHED BY THE COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED.
2. LEVEL II CERTIFICATION: NAME: BANKS TATE, P.E. NO#. 52948 EXP. DATE: 05/01/23
3. LIMITS OF DISTURBANCE IS LESS THAN 50 ACRES.
4. 24 HOUR CONTACT: W.BRAD OWEN
   706-829-9368
   WBOWEN@AUGUSTANATIONAL.COM
5. PRIMARY PERMITTEE: AUGUSTA NATIONAL GOLF CLUB
   2604 WASHINGTON RD
   AUGUSTA GA, 30904
   706-829-9368
   CLIENT EMAIL
6. TOTAL DISTURBED ACREAGE OF THIS PROJECT: 2.25 ACRES
   TOTAL PROJECT ACREAGE: 2.25 ACRES
7. CONSTRUCTION EXIT: N33.500246
   W82.022327
8. THE INITIAL DATE ON PLANS IS FEBRUARY 25, 2022, REVISIONS ARE TO BE RESUBMITTED TO THE LOCAL ISSUING AUTHORITY, THE ENTITY REQUESTING THE REVISIONS, THE DATE THE CHANGE WAS MADE, AND THE NATURE OF THE CHANGE WILL BE DENOTED IN THE DESIGNATED AREA ON THE PLAN SHEET.
9. NATURE OF CONSTRUCTION ACTIVITY: CONSTRUCTION OF GOLF COURSE AMENITIES.
10. VICINITY MAP IS PROVIDED ON SHEET C100.
11. PROJECT RECEIVING WATERS:
    RECEIVING: RAE'S CREEK
    ULTIMATE: SAVANNAH RIVER
12. "I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."

    LEVEL II CERTIFICATION: NAME: BANKS TATE, P.E. NO#. 52948 EXP. DATE: 05/01/23
13. "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AN SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. 100001."

    LEVEL II CERTIFICATION: NAME: BANKS TATE, P.E. NO#. 52948 EXP. DATE: 05/01/23
14. **THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION. THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN, EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPs HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.**
15. **NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.**
16. THERE ARE NO BUFFER ENCROACHMENTS ON THIS PROJECT, IF YES, REFER TO SHEET(S) N/A FOR BUFFER DESCRIPTIONS.
17. **AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.**
18. **WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.**
19. **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.**
20. **EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.**
21. **ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14-DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.**
22. ANY CONSTRUCTION ACTIVITY WHICH DISCHARGES STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT MUST COMPLY WITH PART III. C. OF THE PERMIT. INCLUDE THE COMPLETED APPENDIX 1 LISTING ALL THE BMPS THAT WILL BE USED FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO THE IMPAIRED STREAM SEGMENT. THIS DOES NOT APPLY TO THIS PROJECT.
23. A TMDL IMPLEMENTATION PLAN FOR SEDIMENT IS NOT IMPLEMENTED.
24. BMPs FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF THE VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

    TOOLS
    BMPs FOR CONCRETE WASHDOWN OF THE FOLLOWING:
    ALL CONCRETE WASH WATER THAT RESULTS FROM THE WASHDOWN OF TOOLS USED FOR CONCRETE WORK SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHDOWN AREA. DETAIL ON SHEET C506.

    CONCRETE MIXER CHUTES
    ALL CONCRETE WASH WATER THAT RESULTS FROM THE RINSING OUT OF CONCRETE MIXER CHUTES SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHOUT AREA.

    HOPPERS
    ALL CONCRETE WASH WATER THAT RESULTS FROM RINSING OUT OF CONCRETE HOPPERS SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHOUT AREA.

    REAR OF VEHICLES
    ALL CONCRETE WASH WATER THAT RESULTS FROM RINSING OUT OF CONCRETE TRUCKS SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHOUT AREA.
25. BMPs FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS:
    LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO ALL ON-SITE PERSONNEL.

    MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDE, BUT IS NOT LIMITED TO: BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

    SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.

    ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL STATE, AND FEDERAL REGULATIONS.

    FOR SPILLS THAT IMPACT SURFACE WATER (I.E. LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24-HOURS AT 1-(800)-426-2675.

    FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24-HOURS AT 1-(800)-426-2675.

    FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA ENVIRONMENTAL PROTECTION DIVISION (EPD) WILL BE CONTACTED WITHIN 24-HOURS. GA. EPD (404)-656-4863 OR (800)-241-4113 AND THE NATIONAL RESPONSE CENTER AT (800)-424-8802

    FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

    THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ON-SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. IN SUCH A CASE, THE CONTRACTOR WILL NEED A SPILL PREVENTION, CONTAINMENT, AND COUNTERMEASURES PLAN PREPARED BY A LICENSED PROFESSIONAL.
26. DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED:

    MEASURES INCLUDE A COMBINATION OF VEGETATED SWALES AND NATURAL DEPRESSIONS FOR FLOW ATTENUATION, LANDSCAPED AND TURF AREAS, AND IMPERVIOUS SURFACES THAT WILL REDUCE SOIL AND SEDIMENT RUNOFF. THESE MEASURES WILL ENSURE THAT THE NATURAL, PHYSICAL, AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS OF THE WATER COURSE ARE MAINTAINED AND PROTECTED
27. PRACTICES TO PROVIDE COVER FOR BUILDING MATERIALS AND BUILDING PRODUCTS ON SITE:

    PETROLEUM BASED PRODUCTS
    CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS, AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/ MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

    PAINTS / FINISHES / SOLVENTS
    ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS, AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

    FERTILIZER / HERBICIDES
    THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

    BUILDING MATERIALS
    NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON-SITE. ALL SUCH MATERIALS WILL BE DISPOSED OF IN ACCORDANCE WITH PROPER WASTE DISPOSAL PROCEDURES.

    BUILDING MATERIALS, PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS SHALL BE COVERED WITH PLASTIC GREEN SHEETING OR TEMPORARY ROOFS IN ORDER TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER.
28. DESCRIPTION OF PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES:

    ADHERENCE TO ALL MEASURES SET FORTH IN NOTE 26 & NOTE 36 WILL REDUCE POLLUTANTS IN STORMWATER DISCHARGES.
29. SEE SHEET C501 FOR DETAILED TIMELINE OF MAJOR CONSTRUCTION ACTIVITIES.
30. DETAILS ON COMPLETE REQUIREMENTS OF INSPECTIONS AND RECORD KEEPING BY PRIMARY PERMITTEE:

    INSPECTIONS (NPDES GENERAL PERMIT NO. 100001, SEC. IV.D.4.)

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

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

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

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

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

    (6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE, OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.a.(5) OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY THE END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORTS SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.
31. DETAILS ON COMPLETE REQUIREMENTS OF SAMPLING FREQUENCY AND REPORTING OF SAMPLING RESULTS:

    SAMPLING FREQUENCY (NPDES GENERAL PERMIT NO.100001 , SEC. IV.D.6.d.)

    (1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
    (2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.
    (3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS: (a). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS * (MONDAY THROUGH FRIDAY, 8:00 A.M. TO 5:00 P.M., AND SATURDAY, 8:00 A.M. TO 5:00 P.M., EXCLUDING ALL NON- WORKING FEDERAL HOLIDAYS, WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION; (b). IN ADDITION TO (a) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS * THAT OCCURS EITHER 90-DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST; (c). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (a) AND (b) ABOVE, IF BMPs ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES 0.5 INCH DURING NORMAL BUSINESS HOURS * UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED. *NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (a) AND (b) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

    REPORTING (NPDES GENERAL PERMIT NO.100001 , SEC. IV.E.)

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

    (1). ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
    (2). ALL MONITORING RESULTS SHALL INCLUDE THE FOLLOWING INFORMATION: (a). THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS; (b). THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING AND MEASUREMENTS; (c). THE DATE(S) ANALYSES WERE PERFORMED; (d). THE TIME(S) ANALYSES WERE INITIATED; (e). THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSES; (f). REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; AND, (g). THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS. (h). RESULTS WHICH EXCEED 1,000 NTU SHALL BE REPORTED AS "EXCEEDS 1,000 NTU."
32. DETAILS ON COMPLETE REQUIREMENTS OF RETENTION OF RECORDS BY PRIMARY PERMITTEE:

    RETENTION OF RECORDS (NPDES GENERAL PERMIT NO.100001 , SEC. IV.F.)

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

    SAMPLE TYPE (NPDES GENERAL PERMIT NO.100001 , SEC. IV.D.6.b.)

    ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001"; AND, GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD. ANALYTICAL METHODS USED FOR THE COLLECTION AND ANALYSIS OF SAMPLES FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL USE, AT A MINIMUM, THE GUIDELINES SET FORTH IN PART IV.D.6.a. AND PART IV.D.6.b. OF THIS PERMIT.

    SAMPLE TYPE (NPDES GENERAL PERMIT NO.100001 , SEC. IV.D.6.c.)

    FOR CONSTRUCTION ACTIVITIES, THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). HOWEVER, PROVIDED FOR IN AND IN ACCORDANCE WITH PART IV.D.6.c.(2) OF THIS PERMIT, PRIMARY PERMITTEES ON AN INFRASTRUCTURE CONSTRUCTION PROJECT MAY SAMPLE THE REPRESENTATIVE RECEIVING WATER(S) OR OUTFALLS, OR A COMBINATION THEREOF. SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE MINIMUM GUIDELINES SET FORTH IN PART IV.D.6.c.(1). OF THIS PERMIT. RECEIVING WATER(S) MUST HAVE AN UPSTREAM AND A DOWNSTREAM SAMPLE LOCATION.
34. "APPENDIX B" RATIONALE FOR OUTFALL SAMPLING POINTS:

    SAMPLING REQUIREMENTS (NPDES GENERAL PERMIT NO.100001 , SEC. IV.D.6.a.(3).)

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

    STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION(S). A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES (BMPs) HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING THE VALUE THAT WAS SELECTED FROM "APPENDIX B" IN THE NPDES GENERAL PERMIT NO. 100001.

    THE SELECTED NTU VALUE OF 25 IS BASED UPON THE CONSTRUCTION SITE ACREAGE OF 2.25 ACRES FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA APPROXIMATELY 0.0001 SQUARE MILES.
35. SAMPLING LOCATIONS, PERENNIAL STREAMS, INTERMITTENT STREAMS, AND OTHER BODIES OF WATER INTO WHICH STORM WATER IS DISCHARGED CAN BE FOUND ON SHEET C501.
36. FOR PHASED EROSION AND SEDIMENTATION CONTROL PLANS (I.E. INITIAL PHASE, INTERMEDIATE PHASE, AND FINAL PHASE) SHOWING THE LOCATION OF BEST MANAGEMENT PRACTICES (BMPs) THAT ARE CONSISTENT WITH AND NO LESS STRINGENT THAN THE MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA, CURRENT EDITION, USING UNIFORM CODING SYMBOLS FROM THE MANUAL, CHAPTER 6, WITH LEGEND, REFER TO SHEET(S) C502,C503 ,C504, & C505 & C506.

    DESCRIPTION OF THE APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE FOR EACH PHASE OF EROSION AND SEDIMENT CONTROL:

    INITIAL PHASE
    INSTALLATION OF PERIMETER CONTROL BMPs (SILT FENCE (Sd1-NS) AT THE LIMITS OF DISTURBANCE); CONSTRUCTION EXITS (Co) TO PREVENT THE TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS AND DRIVES; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH MULCHING ONLY (Ds1); INSTALL INLET SEDIMENT TRAPS (Sd2-F, Sd2-P & Sd2-CFS)

    INTERMEDIATE PHASE
    MAINTAIN SILT FENCE TYPE-"C" (Sd1-NS) FOR PERIMETER CONTROL; MAINTAIN CONSTRUCTION EXITS (Co) TO PREVENT THE TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS AND DRIVES; INSTALL STONE CHECK DAMS (Cd-S) IN DITCHES THAT ARE DISTURBED DURING CONSTRUCTION ACTIVITIES; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH MULCHING ONLY (Ds1); AND DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING (Ds2). MAINTAIN INLET SEDIMENT TRAPS (Sd2-F, Sd2-P & Sd2-CFS)

    FINAL
    MAINTAIN INLET SEDIMENT TRAPS (Sd2-F & Sd2-P) AND FILTER RING (Fr) AT EXISTING INLETS; MAINTAIN SILT FENCE TYPE-"C" (Sd1-C) FOR PERIMETER CONTROL; DISTURBED AREA STABILIZATION WITH SOD (Ds4). REMOVAL OF ALL BMP DEVICES ONCE THE SITE IS FULLY STABILIZED.
    A DESCRIPTION OF APPROPRIATE EROSION CONTROL MEASURES TO BE IMPLEMENTED:

36.1. GENERAL IMPLEMENTATION:

1.2. ALL DISTURBED AREAS SHALL HAVE EROSION CONTROL PROVIDED IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION.

1.3. ALL EROSION CONTROL MEASURES SHALL COMPLY WITH THE STATE OF GEORGIA SOIL AND WATER CONSERVATION COMMISSION MANUAL FOR EROSION AND SEDIMENT CONTROL IN THE STATE OF GEORGIA, CURRENT EDITION.

1.4. FULL COORDINATION SHALL BE MAINTAINED BETWEEN THE CONTRACTOR, DESIGN PROFESSIONAL, AND THE REGULATORY INSPECTOR REGARDING PROJECT SEQUENCE.

1.5. THE NOTATION AS SHOWN ON THE EROSION CONTROL PLAN SHEET(S) AND ON THE EROSION CONTROL DETAIL SHEET FOR THE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES, REFERS TO THE GEORGIA UNIFORM CODING SYSTEM AS DETAILED IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION.

1.6. GENERAL STATEMENT OF DESIGNED EROSION CONTROL SYSTEM:
(a). NO SURFACE WATER FLOWS FROM DISTURBED AREA TO BE ALLOWED INTO THE STORM SEWER SYSTEM WITHOUT FIRST BEING FILTERED BY AN EFFECTIVE SEDIMENT ENTRAPMENT DEVICE.
(b). SEDIMENT ENTRAPMENT DEVICES ARE TO BE MAINTAINED AT ALL POINTS WHERE SURFACE FLOWS FROM DISTURBED AREAS CAN LEAVE THE SITE. FLOWS ARE TO BE DIRECTED TO ENTRAPMENT DEVICES THROUGHOUT CONSTRUCTION ACTIVITIES.

1.7. EROSION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES ON-SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. EROSION CONTROL MEASURES SHALL BE INSPECTED AT THE END OF EACH WORKING DAY AND AFTER EACH STORM EVENT TO ENSURE THAT ALL MEASURES ARE FUNCTIONING PROPERLY. ANY REPAIRS SHALL BE MADE BY THE CONTRACTOR.

1.8. IN ADDITION TO THE NOTE ABOVE, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN EVENT, AND REPAIRED AS NECESSARY THESE INSPECTIONS SHALL BE DOCUMENTED WITH COPIES SENT TO THE OWNER.

1.9. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY LAND DISTURBANCE ON SITE. SILT BARRIER TO BE PLACED AS SHOWN AND/OR AS DIRECTED BY THE PROJECT ENGINEER AND/OR OWNER: CLIENT.

1.10. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DETERMINED NECESSARY BY ON-SITE INSPECTION.

1.11. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (I.E. SILT FENCE, SEDIMENT TRAPS, ETC...) AND TREE PROTECTION FENCING ONCE PERMANENT VEGETATION IS ESTABLISHED.

1.12. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING DOWNSTREAM CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD AND FOR CLEARING ANY DEBRIS AND SEDIMENT THAT IS CAUSED BY CONSTRUCTION ACTIVITIES.

1.13. ALL DISTURBED AREAS SHALL BEST BE STABILIZED AS REQUIRED BY THESE PLANS BY THE SITEWORK CONTRACTOR AS SOON AS CONSTRUCTION PHASES PERMIT.

1.14. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24-HOURS OF SEEDING.

1.15. DURING UNSUITABLE GROWING SEASONS, MULCH WILL BE USED AS A TEMPORARY COVER (Ds1). ON SLOPES 4:1 OR STEEPER, MULCH WILL BE ANCHORED.

1.16. SILT FENCE SHALL MEET THE MINIMUM REQUIREMENTS OF SECTION 171 OF THE STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, CURRENT EDITION, AND/OR GEORGIA EPD "GREEN BOOK" AS AMENDED.

1.17. SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME FOR RETROFITS AND TEMPORARY SEDIMENT BASINS, AND THE 1/2 FULL VOLUME FOR ALL OTHER SEDIMENT STORAGE STRUCTURES (I.E. CHECK DAMS, SILT FENCE, ETC...).

1.18. ALL SEDIMENT STORAGE DEVICES ARE TO BE CONSTRUCTED COMPLETELY AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.

1.19. CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5:1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATTING AND BLANKETS.

1.20. ALL PERMANENT GRADED EARTH SLOPES, EXCAVATION OR EMBANKMENT (CUT AND FILL), SHALL BE GRADED TO A MAXIMUM FINISHED SLOPE OF TWO (2) FEET HORIZONTAL TO ONE (1) FOOT VERTICAL (MAXIMUM SLOPE 2H:1V).

1.21. ALL DISTURBED AREAS LEFT MULCHED AFTER 30-DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

1.22. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS.

1.23. 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, I.E., MANDATORY STOP WORK ORDER.

1.24. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM A VEHICLE OR FROM THE SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

GSWCC Georgia Soil and Water Conservation Commission
Robert Banks Tate
Level II Certified Design Professional
Certification Number 000052948
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3/2/22
ENGINEER SEAL

CURRENT SUBMISSION:		DESIGN DEVELOPMENT
#	DATE	SUBMISSION
-	02/25/22	CONSTRUCTION DOCUMENTS

HOLES 8 AND 18 PATRON HUB

EROSION CONTROL NOTES

173266
JOB NO.

C500
SHEET

GSWCC AND NPDES NOTES (CONTINUED):

36. A DESCRIPTION OF APPROPRIATE EROSION CONTROL MEASURES TO BE IMPLEMENTED (CONTINUED):

INITIAL PHASE:

1. ALL STAGING AREAS, MATERIAL STORAGE AREAS, CONCRETE WASH–OUT AREAS, SHALL BE LOCATED AT SETBACK DISTANCES FROM DESIGNATED TREE PROTECTION AREAS AND/OR STREAM BUFFERS AS REQUIRED BY LOCAL AND STATE REGULATIONS.
2. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES. POST ON DAY ONE.
3. PRIOR TO COMMENCING LAND DISTURBING ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DELINEATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
4. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION EXIT (Co) SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY AS SHOWN ON THE PLANS.
5. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE INITIAL PHASE OF THE EROSION CONTROL PLAN.
6. SILT FENCE OR APPROVED EQUAL SHALL BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA OR AS SHOWN ON THE PLAN. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES HALF THE HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
7. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN.
8. TREE PROTECTION FENCING AND STREAM BUFFER LIMITS SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
9. AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL WITHIN 7 DAYS AFTER INSTALLATION. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTION WITH CONSULTATION WITH THE DESIGN PROFESSIONAL.
10. AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT STORAGE DEVICES AS SHOWN ON THE INITIAL PHASE PLAN TO CONTROL EROSION AND STORMWATER RUNOFF.
11. INITIAL PHASE BMPs UTILIZED IN THIS PLAN(S) ARE AS FOLLOWS: CO, DS1, SD1–S, SD2–F, SD2–P

INTERMEDIATE PHASE:

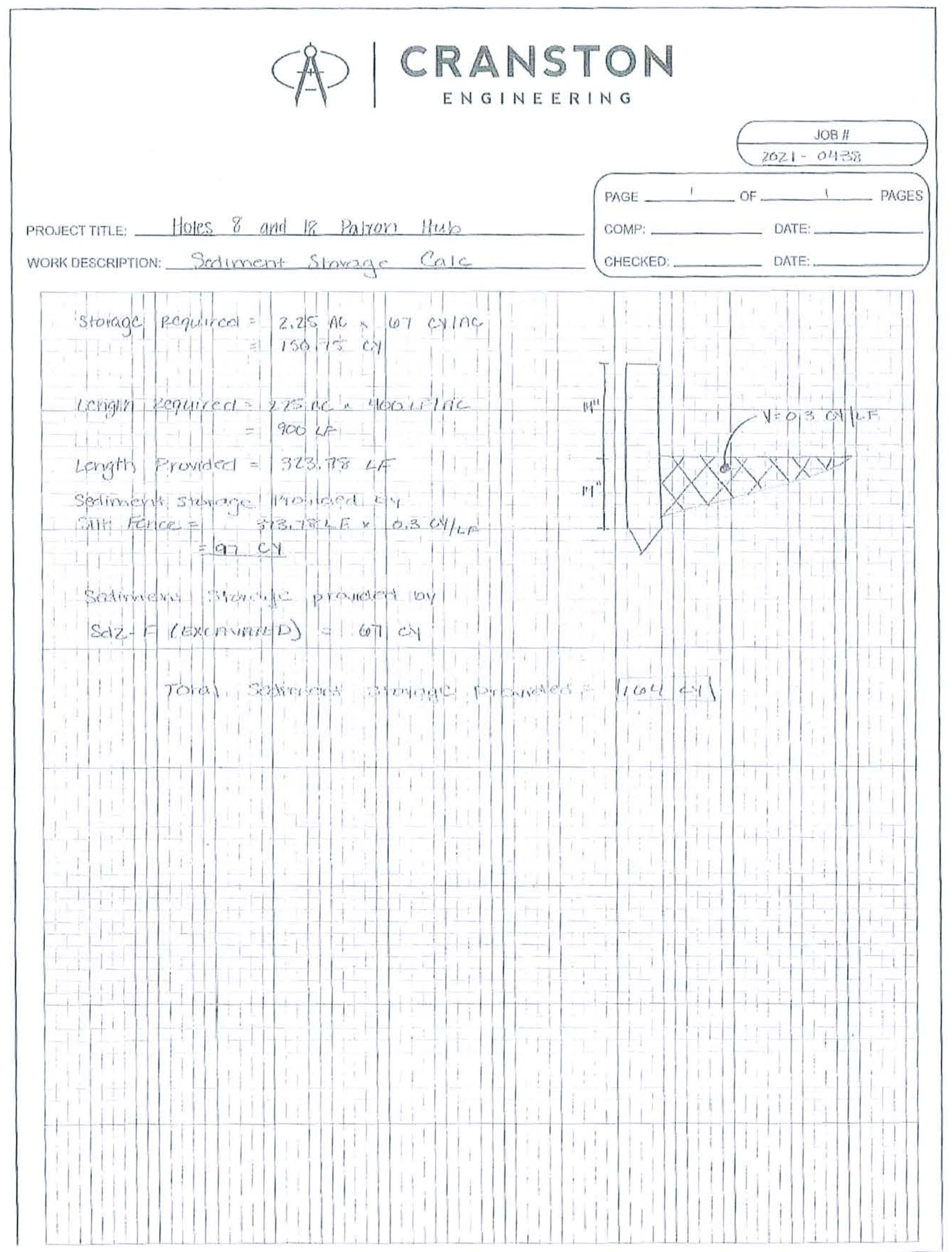
1. MAINTAIN PREVIOUSLY INSTALLED BMPs.
2. SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES, AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.
3. GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION AND SEDIMENTATION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
4. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES HALF OF THE HEIGHT OF THE BARRIER.
5. SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS.
6. AFTER PRELIMINARY CLEARING AND GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT ALL SEDIMENT ENTRAPMENT DEVICES AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN THE DEVICES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT WHEN IT REACHES THE CLEAN–OUT ELEVATION SHOWN ON THE PLANS.
7. SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED WEEKLY AND AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF OF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
8. INTERMEDIATE PHASE BMPs UTILIZED ON THIS PLAN(S) ARE AS FOLLOWS: CO, DS2, DU, SD1–S, SD2–F, SD2–P

FINAL PHASE:

1. THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT DEVICES AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF EACH DEVICE WHEN IT REACHES THE REQUIRED CLEAN–OUT ELEVATION SHOWN ON THE PLANS.
2. AFTER CURBING AND PAVEMENT HAS BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON THE EXISTING INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION.
3. FINAL STABILIZATION OF PERMANENT GRASS MUST MEET 100% COVERAGE, 70% DENSITY RULE.
4. FINAL PHASE BMPs UTILIZED ON THIS PLAN(S) ARE AS FOLLOWS: DS3, WATER QUALITY FEATURE

37. GRAPHIC SCALE AND NORTH ARROW PROVIDED ON PLAN SHEETS C502,C503 & C504.
38. THE CONTOUR INTERVAL ON PLAN SHEETS C502,C503 & C504 IS 1'.
39. ARE ALTERNATE BMPs TO BE USED ON THIS PROJECT: NO
40. IF ALTERNATE BMPs ARE USED, THE USE OF ALTERNATIVE BMP FOR APPLICATION TO THE EQUIVALENT BMP LIST. PLEASE REFER TO APPENDIX A–2 OF THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA LATEST EDITION. SEE CALC SHEET N/A
41. THE DELINEATION OF THE APPLICABLE 25–FOOT OR 50–FOOT UNDISTURBED BUFFERS ADJACENT TO STATE WATERS AND ANY ADDITIONAL BUFFERS REQUIRED BY THE LOCAL ISSUING AUTHORITY CAN BE FOUND ON PLAN SHEET(S) N/A.
42. THE DELINEATION OF ALL ON–SITE WETLANDS AND ALL STATE WATERS LOCATED WITHIN 200 FEET OF THE PROJECT SITE, IF APPLICABLE, CAN BE FOUND ON PLAN SHEET(S) N/A.
43. DELINEATION AND ACREAGE OF CONTRIBUTING DRAINAGE BASINS ON THE PROJECT SITE CAN BE FOUND ON THE PLAN SHEET(S) SEE HYDROLOGY REPORT.
44. HYDROLOGY STUDY AND MAPS OF DRAINAGE BASINS FOR BOTH THE PRE–DEVELOPED AND POST–DEVELOPED CONDITIONS ARE PROVIDED ON IN THE HYDROLOGY REPORT.
45. ESTIMATE OF RUNOFF COEFFICIENT OF THE SITE PRIOR TO AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED: PRE: 0.6 POST: 0.7
46. STORM DRAIN PIPE AND WEIR VELOCITIES WITH APPROPRIATE OUTLET PROTECTION: STORM DRAIN PIPE Q, V, L, W, D, AND SIZE PROVIDED ON SHEET C501.
47. SOIL SERIES FOR THE PROJECT SITE AND THEIR DELINEATION IS PROVIDED ON SHEET C501.
48. THE LIMITS OF DISTURBANCE FOR EACH PHASE OF CONSTRUCTION IS PROVIDED ON PLAN SHEETS C502,C503 & C504.
49. SEE CALCULATIONS PROVIDED ON THIS SHEET FOR SEDIMENT STORAGE REQUIREMENTS.
50. THE LOCATION OF BEST MANAGEMENT PRACTICES ARE CONSISTENT WITH AND NO LESS STRINGENT THAN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. UNIFORM CODING SYMBOLS FROM THE MANUAL, CHAPTER 6, WITH LEGEND ARE PROVIDED ON SHEETS C502,C503,C504 & C505 & C506.
51. DETAILED DRAWINGS FOR ALL STRUCTURAL PRACTICES ARE PROVIDED ON SHEET(S) C505 & C506.
52. VEGETATIVE PRACTICES:

1. SEPTEMBER 15 – FEBRUARY 15, A MIXTURE OF UNHULLED COMMON BERMUDA 6 LBS./ACRE AND RYE GRASS SEED 28 LBS./ACRE APPLIED SIMULTANEOUSLY.
2. OCTOBER 1 – MARCH 1, UNHULLED COMMON BERMUDA 10 LBS./ACRE.
3. APRIL 1 – JUNE 1, HULLED COMMON BERMUDA 10 LBS./ACRE.
4. FERTILIZER GRADE WILL BE A COMMERCIAL 6–12–12 INCORPORATED INTO THE SOIL AT 1500 LBS./ACRE, ALSO 1500 LBS. DOLOMITIC LIME.
5. NOT LESS THAN 30 DAYS AFTER SEEDING, APPLY AMMONIUM NITRATE (NOT LESS THAN 20% NITRATE) AT A RATE EQUAL TO 60 LBS. OF AVAILABLE NITROGEN /ACRE. APPLICATION BETWEEN JUNE THRU AUGUST.
6. ALL SEEDED AREAS WILL BE MULCHED WITH STRAW OR HAY MULCH AT A RATE OF 2.5 TONS/ACRE.
7. FOR ALL DATES NOT COVERED UNDER THE GRASSING SCHEDULE THE DISTURBED SOIL SHALL BE TEMPORARILY STABILIZED USING POLYACRYLAMIDE.
8. CONTRACTOR TO ENSURE THAT EXISTING ON SITE VEGETATION OUTSIDE THE LIMITS OF CONSTRUCTION IS PRESERVED AND THAT ALL DISTURBED PORTIONS OF THE SITE ARE STABILIZED.
9. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.


CRANSTON ENGINEERING

JOB # 2021-0438

PROJECT TITLE: Holes 8 and 18 Patron Hub

WORK DESCRIPTION: Sediment Storage Calc

PAGE 1 OF 1 PAGES

COMP: DATE:

CHECKED: DATE:

Storage Required = 2.25 AC x 67 CY/AC = 150.75 CY

Length Required = 2.25 AC x 400 LF/AC = 900 LF

Length Provided = 323.78 LF

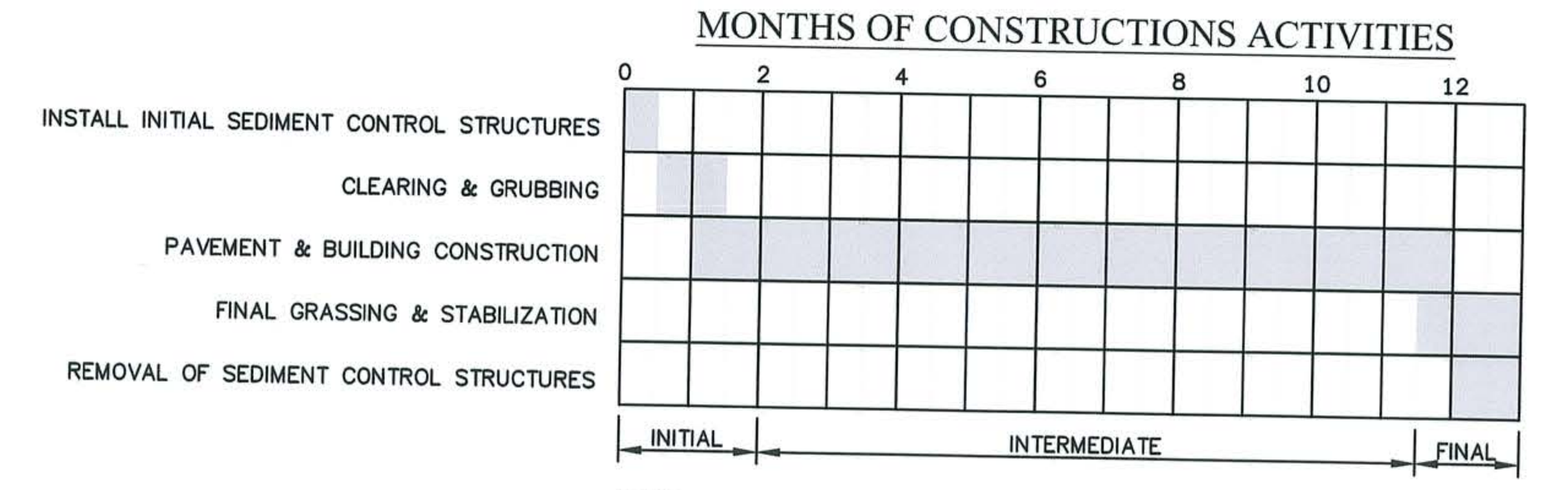
Sediment Storage Provided by Silt Fence = 323.78 LF x 0.3 CY/LF = 97 CY

Sediment Storage provided by Sd2-F (EXCAVATED) = 67 CY

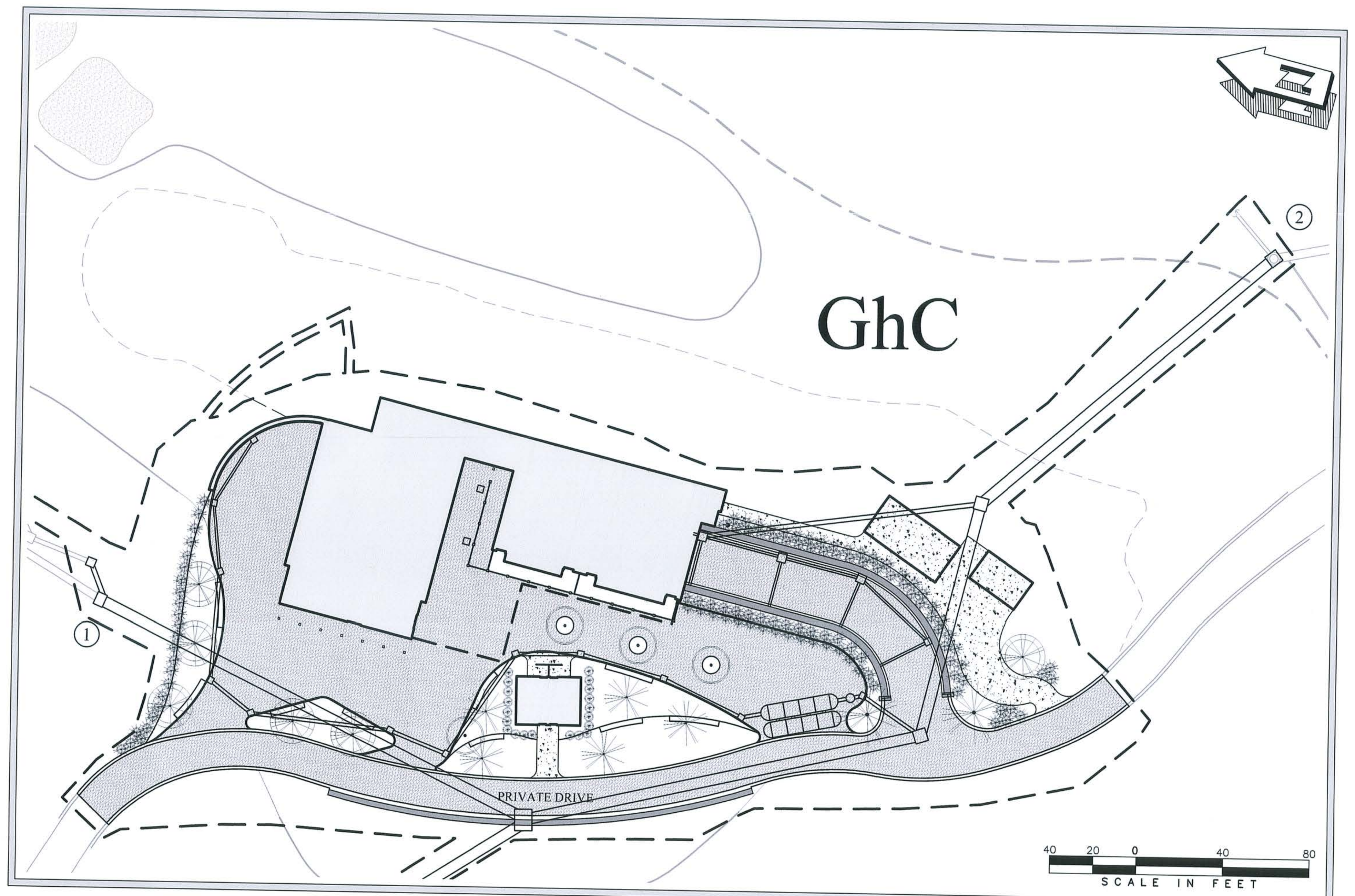
Total Sediment Storage Provided = 164 CY

APPROXIMATE START DATE: MAY 2022

APPROXIMATE FINISH DATE: AUGUST 2023



NOTES:
1. ALL DISTURBED AREAS NOT INTENDED FOR PAVING SHALL BE STABILIZED USING TEMPORARY MEASURES Ds2 AND PERMANENT MEASURES Ds3.



MONITORING PLAN & SOILS MAP
1"=40'

MONITORING POINTS

MONITORING POINT LOCATIONS ARE SHOWN ABOVE:

(1) UPSTREAM MONITORING POINT (EXISTING STORM BOX)

(2) DOWNSTREAM MONITORING POINT (EXISTING FLUME OUTFALL)

SOILS

GhC GEORGEVILLE–URBAN LAND COMPLEX, 2 TO 8 PERCENT SLOPES

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ATLANTA, GA 30326
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#	DATE	SUBMISSION
-	02/25/22	CONSTRUCTION DOCUMENTS

HOLES 8 AND 18
PATRON HUB

EROSION CONTROL NOTES

GSWCC Georgia Soil and Water Conservation Commission
Robert Banks Tate
Level II Certified Design Professional
Certification Number 000052948
Issued: 05/01/2017 Expires: 05/01/2023

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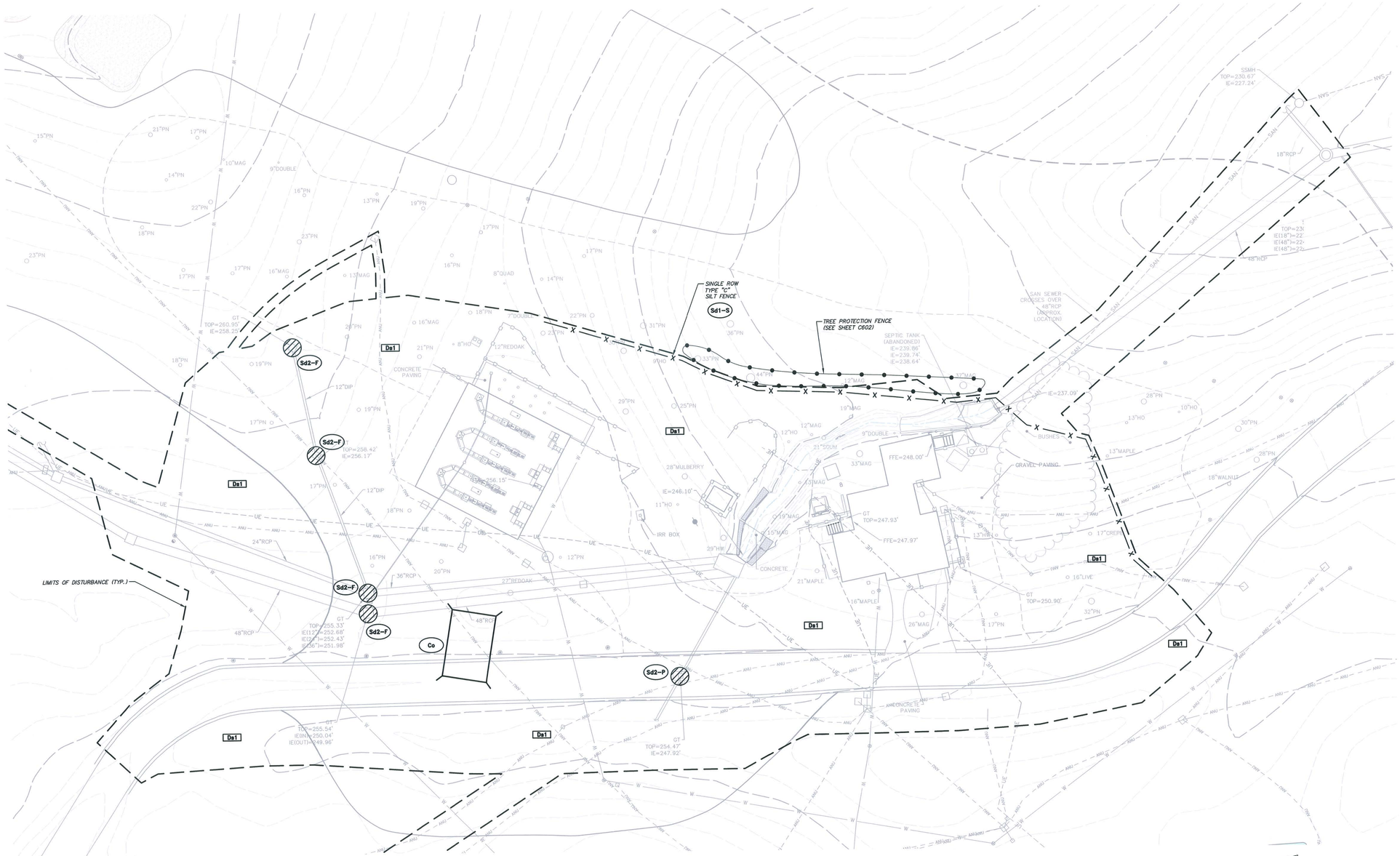
JOB NO.

C501
SHEET



PLAN
HORIZONTAL SCALE 1"=20'

20 10 0 20 40
SCALE IN FEET

GENERAL NOTES:
1. NO STATE WATERS ARE WITHIN 200 FEET OF THE PROJECT LIMITS.
2. NO WETLANDS ARE LOCATED WITHIN THE PROJECT LIMITS.
3. NO KNOWN WETLANDS ARE LOCATED WITHIN THE PROPERTY LIMITS.

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HOLES 8 AND 18 PATRON HUB

INITIAL EROSION CONTROL PLAN

GSWCC Georgia Soil and Water Conservation Commission
Robert Banks Tate
Level II Certified Design Professional
Certification Number: 0000052948
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LIMITS OF DISTURBANCE (TYP.)

PLAN
HORIZONTAL SCALE 1"=20'

20 10 0 20 40
SCALE IN FEET

GENERAL NOTES:

1. CONTRACTOR TO SUBMIT LOCATION OF CONCRETE WASHDOWN AREA FOR APPROVAL.
2. NO STATE WATERS ARE WITHIN 200 FEET OF THE PROJECT LIMITS.
3. NO WETLANDS ARE LOCATED WITHIN THE PROJECT LIMITS.
4. NO KNOWN WETLANDS ARE LOCATED WITHIN THE PROPERTY LIMITS.

GEORGIA
PROFESSIONAL
NO. 35714
ENGINEER
R. BANKS TATE

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HOLES 8 AND 18
PATRON HUB

INTERMEDIATE EROSION CONTROL PLAN

GSWCC
Robert Banks Tate
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CERTIFICATION NUMBER: 0000052948
EXPIRES: 05/01/2023

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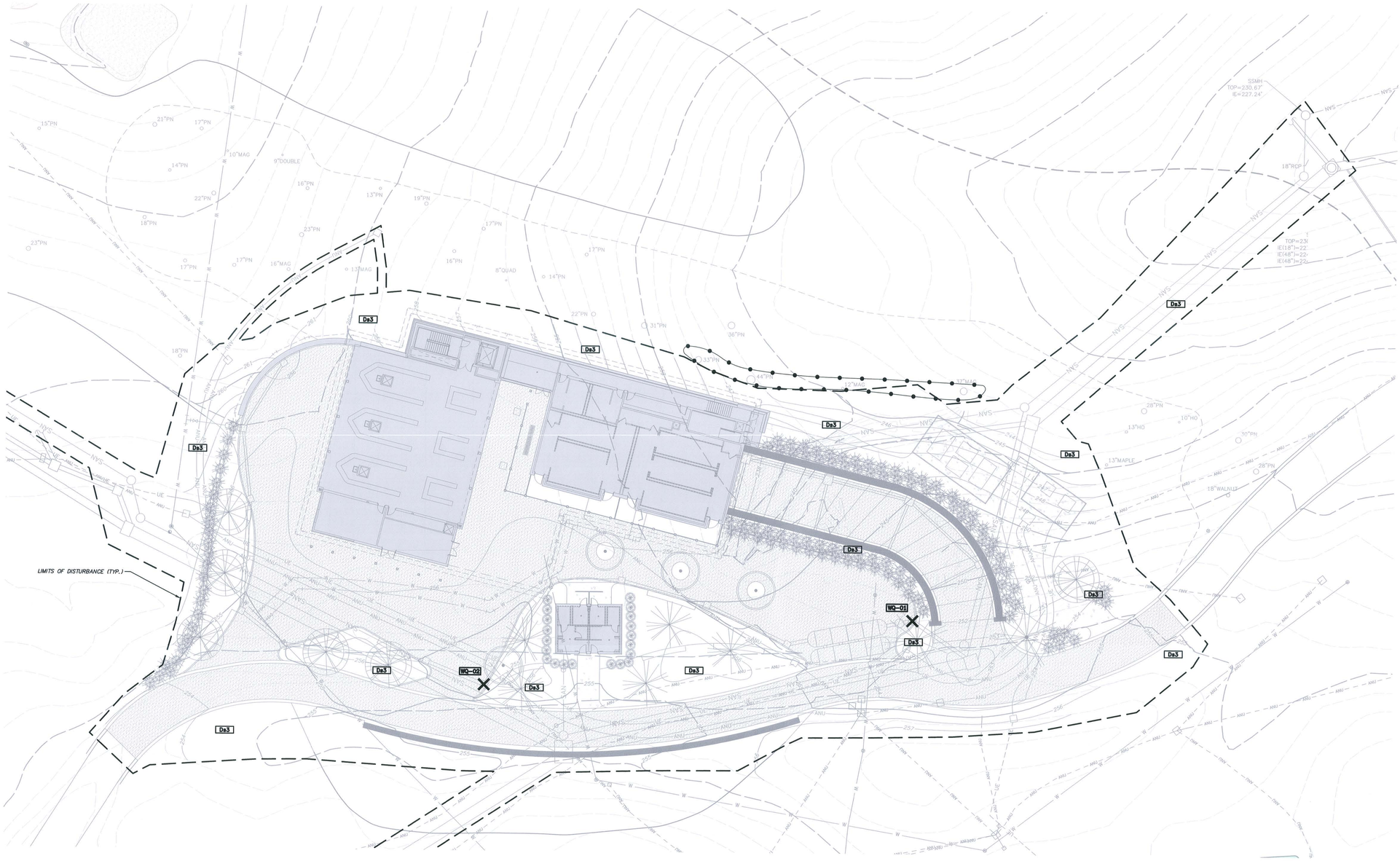
173266
JOB NO.

C503
SHEET



PLAN
HORIZONTAL SCALE 1"=20'

20 10 0 20 40
SCALE IN FEET

GENERAL NOTES:

1. CONTRACTOR TO REMOVE ALL REMAINING TEMPORARY BMPs AS FINAL SITE STABILIZATION OCCURS.
2. NO STATE WATERS ARE WITHIN 200 FEET OF THE PROJECT LIMITS.
3. NO WETLANDS ARE LOCATED WITHIN THE PROJECT LIMITS.
4. NO KNOWN WETLANDS ARE LOCATED WITHIN THE PROPERTY LIMITS.
5. CONTRACTOR TO PROVIDE WATER TO ALL SOD AND PERMANENT GRASSED AREAS FOR MINIMUM OF 30 DAYS OR UNTIL GRASS IS ESTABLISHED PER SPECIFICATIONS.

LEGEND

WQ-XX WATER QUALITY INSERT

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Issued: 05/01/2017 Expires: 05/01/2023

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#	DATE	SUBMISSION
-	02/25/22	CONSTRUCTION DOCUMENTS

HOLES 8 AND 18 PATRON HUB

FINAL EROSION CONTROL PLAN

173266 JOB NO.

C504 SHEET

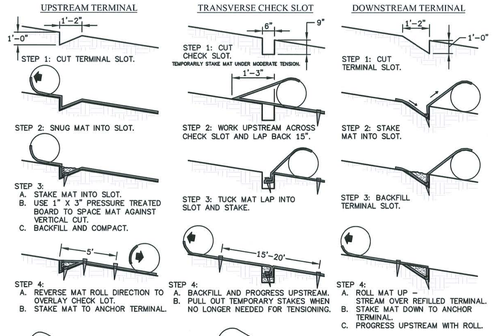
STRUCTURAL PRACTICES

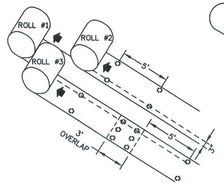
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT			A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.
Cw	CONCRETE WASHDOWN			EXCAVATED AREA MARKED WITH ORANGE FENCING USED FOR CONCRETE WASHDOWN OF TOOLS & CHUTES.
Fr	FILTER RING			A TEMPORARY STONE BARRIER CONSTRUCTED AT STORM INLETS AND POND OUTLETS.
Sd1	SEDIMENT BARRIER			A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, BRUSH ,LOGS AND POLES, GRAVEL OR A SILT FENCE.
Sd2	INLET SEDIMENT TRAP			A TEMPORARY PROTECTIVE DEVICE FORMED AT OR AROUND AN INLET TO A STORM DRAIN TO TRAP SEDIMENT
Sd4	TEMPORARY SEDIMENT TRAP			A SMALL TEMPORARY POND THAT DRAINS A DISTURBED AREA SO THAT SEDIMENT CAN SETTLE OUT. THE PRINCIPLE FEATURE DISTINGUISHING A TEMPORARY SEDIMENT TRAP FROM A TEMPORARY SEDIMENT BASIN IS THE LACK OF A PIPE OR RISER.

VEGETATIVE PRACTICES

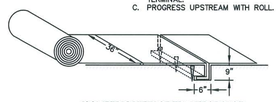
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDLINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE EROSION RETARDING COVER.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Ds2	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds3	ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD, OR LEGUMES ON DISTURBED AREA.
Du	DUST CONTROL ON DISTURBED AREAS		Du	CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE, ROADWAYS AND SIMILAR SITES.
Ss	SLOPE STABILIZATION		Ss	A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS

BLANKET AND MATTING CROSS-SECTIONS





SEQUENTIAL ROLL RUN OUT IN CHANNELS

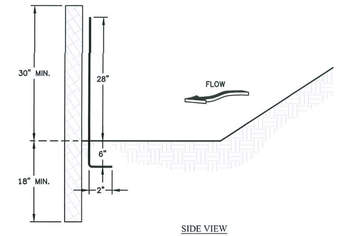


ISOMETRIC VIEW OF TRAVERSE SLOT

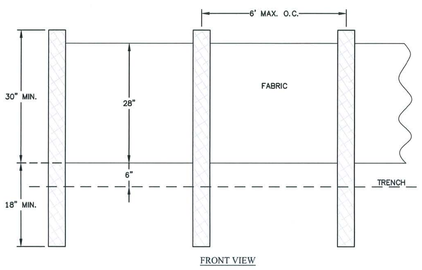
NOTES:
1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND THE FIRST ROLL. USE THE CENTER ROLL FOR ALIGNMENT TO THE CHANNEL CENTER.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

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

SLOPE STABILIZATION Ss
N.T.S.



SIDE VIEW

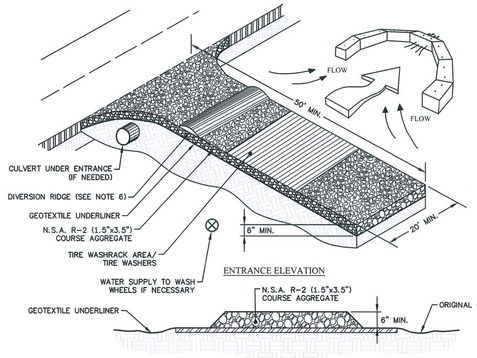


FRONT VIEW

NOTES:
1. STEEL OR DOT APPROVED WOOD POSTS.

SILT FENCE - TYPE A Sd1–NS
N.T.S.

EXIT DIAGRAM

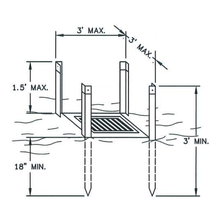


ENTRANCE ELEVATION

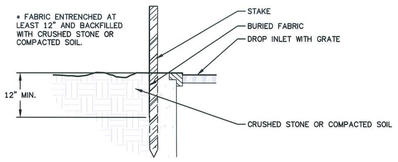
NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R–2 (1.5"–3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS–OF–WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

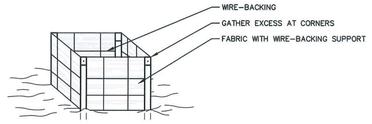
CRUSHED STONE CONSTRUCTION OUTLET Co
N.T.S.

STEEL FRAME AND SILT FENCE INSTALLATION

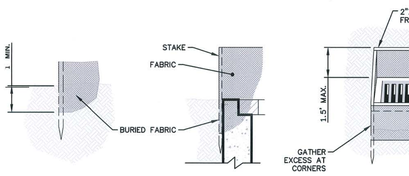


NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC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



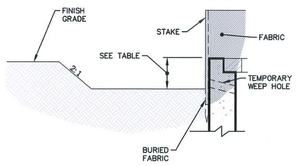


FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION Sd2–F
N.T.S.



FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION Sd2–F
N.T.S.

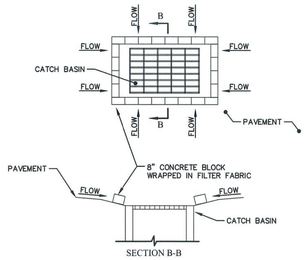
1. FOR STAKES USE 2"x4" WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF THREE FEET.
2. SPACE STAKES EVENLY AROUND THE PERIMETER OF THE INLET A MAXIMUM OF THREE FEET APART, AND DRIVE THEM SECURELY INTO THE GROUND, APPROXIMATELY 18" DEEP.
3. TO PROVIDE NEEDED STABILITY TO THE INSTALLATION, FRAME WITH 2"X4" WOOD STRIPS AROUND THE CREST OF THE OVERFLOW AREA AT A MAXIMUM OF 1.5' ABOVE THE DROP INLET CREST.
4. PLACE THE BOTTOM 12" OF THE FABRIC IN A TRENCH AND BACK FILL THE TRENCH WITH AT LEAST 4" OF CRUSHED STONE, OR 12" OF COMPACTED SOIL.
5. FASTEN FABRIC SECURELY TO THE STAKES AND FRAME. JOINTS MUST BE OVERLAPPED TO THE NEXT STAKE.
6. THE TOP OF THE FRAME AND FABRIC MUST BE WELL BELOW THE GROUND ELEVATION DOWN SLOPE FROM THE DROP INLET TO KEEP RUNOFF FROM BYPASSING THE INLET. IT MAY BE NECESSARY TO BUILD A TEMPORARY DIKE ON THE DOWN SLOPE SIDE OF THE STRUCTURE TO PREVENT BYPASS FLOW.
7. EXCAVATION FOR SEDIMENT TRAP SHALL HAVE SIDE SLOPES OF 2:1.



FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION Sd2–E
N.T.S.

NOTES:
1. OTHER AREAS ULTIMATELY DRAIN TO THE SILT FENCE WHICH PROVIDES 97 CY OF ADDITIONAL SEDIMENT STORAGE.
2. ALL DESIGN PARAMETERS ARE CONSIDERED MINIMUMS.
3. TOTAL STORAGE REQUIRED = 150.75 CY TOTAL STORAGE PROVIDED = 164 CY

INLET STRUCTURE	STORAGE PROVIDED	EXCAVATION PARAMETERS
JB A2	33.50 C.Y.	CIRCULAR, 3' DEEP WITH 20' DIA.
GT E1	33.50 C.Y.	CIRCULAR, 3' DEEP WITH 20' DIA.



INLET SEDIMENT TRAP Sd2–P
N.T.S.

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#	DATE	SUBMISSION
-	02/25/22	CONSTRUCTION DOCUMENTS

HOLES 8 AND 18
PATRON HUB

EROSION CONTROL DETAILS

GSWCC Georgia Soil and Water Conservation Commission
Robert Banks Tate
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Certification Number 0000052948
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173266 JOB NO.

C505 SHEET

INSTALLATION:

- APPLY MULCH OR TEMPORARY GRASSING TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE.
- APPLICABLE TO GRADED OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER.
- *MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP* TO 6 MONTHS.APPLY AT THE APPROPRIATE DEPTH. REFER TO TABLE 1 FOR SPECIFIC MATERIALS.

SITE PREPARATION	• GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH • INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS DIKES, BERMS, AND SEDIMENT BARRIERS. • LOOSEN COMPACTED SOIL TO A MINIMUM DEPTH OF 3".
APPLYING MULCH	• APPLY DRY STRAW OR HAY AND WOOD CHIPS UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT. • APPLY 20–30 LBS OF NITROGEN/ACRE IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION. • APPLY POLYETHYLENE FILM ON EXPOSED AREAS.
ANCHORING MULCH	• PRESS STRAW OR HAY INTO THE SOIL WITH A DISK HARROW IMMEDIATELY AFTER APPLICATION.TACKIFIERS MAY BE USED WHEN SPREADING MULCH WITH BLOWER–TYPE EQUIPMENT. • ANCHOR WOOD WASTE USING THE APPROPRIATE SIZE NETTING • TRENCH POLYETHYLENE AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

MULCHING APPLICATION REQUIREMENTS:

MATERIAL	RATE	DEPTH
STRAW OR HAY		2" TO 4"
WOOD WASTE, CHIPS, SAWDUST, BARK		2" TO 3"
POLYETHYLENE FILM	SECURE WITH SOIL, ANCHORS, WEIGHTS	
WOOD WASTE, CHIPS, SAWDUST, BARK	SEE MANUFACTURER'S RECOMENDATIONS	

MAINTENANCE

THE APPROPRIATE DEPTH AND 90% COVER SHALL BE MAINTAINED AT ALL TIMES.

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) Ds1

TEMPORARY METHODS:

MULCHES (SEE Ds1)	SEE Ds1 – DISTURBED AREA STABILIZATION (MULCHING ONLY). REFER TO SPECIFICATION Tac – TACKIFIERS FOR THE USE OF SYNTHETIC RESIN TO BIND MULCH MATERIAL.
VEGETATIVE COVER (SEE Ds2)	SEE Ds2 – DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).
SPRAY–ON ADHESIVES	FOR USE ON MINERAL SOILS NOT MUCK SOILS. REFER TO SPECIFICATION Tac – TACKIFIERS.
TILLAGE	DESIGNED TO ROUGHEN AND BRING CLODS TO THE SOIL SURFACE. BEGIN PLOWING ON WINDWARD SIDE OF SITE. USE CHISEL–TYPE PLOWS TO ACHIEVE DESIRED EFFECT. THIS IS AN EMERGENCY MEASURE TO BE USED BEFORE WIND EROSION STARTS.
IRRIGATION	SPRINKLE THE SITE WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.
BARRIERS	USE SOLID BOARD FENCE, SNOW FENCE, BURLAP FENCE, CRATE WALLS, BALES OF HAY OR SIMILAR MATERIAL TO CONTROL AIR CURRENTS AND SOIL BLOWING. PLACE BARRIERS AT RIGHT ANGLES AT INTERVALS OF 15X THEIR HEIGHT TO CONTROL WIND EROSION.
CALCIUM CHLORIDE	APPLY AT A RATE TO KEEP THE SURFACE MOIST.

PERMANENT METHODS:

PERMANENT VEGETATION	SEE Ds3 – DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE
STONE	COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE SPECIFICATION Cr –CONSTRUCTION ROAD STABILIZATION.
TOP SOILING	SEE SPECIFICATION Tp – TOP SOILING

MAINTENANCE

PROHIBIT TRAFFIC ON SURFACE AFTER SPRAYING.
SUPPLEMENT SURFACE COVERING AS NEEDED.

DUST CONTROL ON DISTURBED AREAS Du

INSTALLATION:

- APPLY MULCH OR TEMPORARY GRASSING TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE.
- APPLICABLE TO ROUGH GRADED THAT WILL BE EXPOSED FOR LESS THAN 6 MONTHS.
- COORDINATE WITH PERMANENT MEASURES TO ENSURE ECONOMICAL AND EFFECTIVE STABILIZATION.
- TAKE NOTE OF WHICH SPECIES ARE NOT APPROPRIATE FOR COMPANION CROP PLANTINGS.
- WHEN THE SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, SCARIFY THE SOIL IN ORDER PROVIDE A PLACE FOR THE SEED TO LODGE AND GERMINATE.
- APPLY AGRICULTURAL LIME AT THE RATE DETERMINED BY THE SOIL PH TEST.
- APPLY LIME BEFORE LAND PREPARATION AND INCORPORATE WITH A DISK, RIPPER, OR CHISEL.
- ON STEEP SLOPES, APPLY FERTILIZER HYDRAULICALLY.
- SELECT GRASS, OR GRASS–LEGUME MIXTURES BASED ON THE AREA AND SEASON OF THE YEAR.
- APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER DRILL, CULTI–PACKER–SEEDER, OR HYDRAULIC SEEDER.
- THE APPROPRIATE DEPTH OF PLANTING IS 10X THE SEED PLANTER
- APPLY IRRIGATION AT A RATE THAT WILL NOT CAUSE RUNOFF AND EROSION. THOROUGHLY WET THE SOIL TO INSURE GERMINATION OF THE SEED.

TEMPORARY PLANT SPECIES, SEEDING RATES & PLANTING DATES

SPECIES	RATES PER 1000 SQ. FT.	RATES PER ACRE	PLANTING DATES BY REGION		
			M–L	P	C
BARLEY, ALONE BARLEY, IN MIXTURES	3.30 LBS. 0.80 LBS	0 BU 0.5 BU	9/1–10/31	9/15–11/15	10/1–12/31
LESPEDEZA, ANNUAL LESPEDEZA, IN MIXTURES	0.90 LBS. 0.20 LBS	40 LBS 10 LBS	3/1–3/31	3/1–3/31	2/1–2/28
LOVEGRASS, ALONE LOVEGRASS, IN MIXTURES	0.10 LBS. 0.05 LBS	4 LBS 2 LBS	4/1–5/31	4/1–5/31	3/1–5/31
MILLET, IN BROWNTOP MILLET, IN MIXTURES	0.90 LBS. 0.20 LBS	40 LBS 10 LBS	4/15–6/15	4/15–6/30	4/15–6/30
MILLET, PEARL	1.10 LBS.	50 LBS	5/15–7/15	5/1–7/31	4/15–8/15
OATS, ALONE OATS, IN MIXTURES	2.99 LBS. 0.70 LBS	4 LBS 1.0 LBS	9/15–11/15	9/15–11/15	9/15–11/15
RYE (GRAIN), ALONE RYE, IN MIXTURES	3.90 LBS. 0.80 LBS	3 BU 0.5 BU	8/15–10/31	9/15–11/30	10/1–12/31
RYEGRASS	0.90 LBS.	40 LBS	8/15–11/15	9/1–12/31	9/15–12/31
SUDANGRASS	1.40 LBS.	60 LBS	5/1–7/31	5/1–7/31	4/1–7/31
TRITICALE, ALONE TRITICALE, IN MIXTURES	3.30 LBS. 0.80 LBS	3 BU 0.5 BU	N/A	N/A	10/15–11/30
WHEAT, ALONE WHEAT, IN MIXTURES	4.10 LBS. 0.70 LBS	3 BU 0.5 BU	9/15–11/30	10/1–12/15	10/15–12/31

1. UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES.
2. SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.
3. SEEDING RATES ARE BASED ON PURE LIVE SEED (PLS).

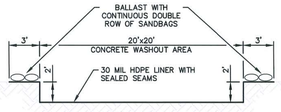
FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N–P–K)	RATE (LBS/ACRE)	N TOP DRESSING RATES (LBS/ACRE)
COOL SEASON GRASSES	FIRST	6–12–12	1500	50–100
	SECOND	6–12–12	1000	–––
	MAINTENANCE	10–10–10	400	30
COOL SEASON GRASSES & LEGUMES	FIRST	6–12–12	1500	50–100
	SECOND	10–10–10	1000	–––
	MAINTENANCE	10–10–10	400	–––
TEMPORARY COVER CROPS SEEDED ALONE	FIRST	10–10–10	500	30
WARM SEASON GRASSES	FIRST	6–12–12	1500	50–100
	SECOND	6–12–12	800	50–100
	MAINTENANCE	10–10–10	400	30

MAINTENANCE:

- RESEED AREAS WHERE AN ADEQUATE STAND OF TEMPORARY VEGETATION FAILS TO EMERGE.
- IF OPTIMUM CONDITIONS FOR TEMPORARY VEGETATION IS LACKING, MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE.

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) Ds2



ALTERNATE METHODS MAY BE PROPOSED BY CONTRACTOR

NOTES:
1. CONTRACTOR TO MAINTAIN DURING CONSTRUCTION AND REMOVE AT THE END OF THE PROJECT.
2. HAUL WASTE MATERIAL TO AN APPROVED DISPOSAL SITE.

CONCRETE WASHOUT AREA DETAIL Cw

N.T.S.

INSTALLATION:

- USE CONVENTIONAL PLANTING METHODS WHERE POSSIBLE.
- FINAL STABILIZATION MEANS THAT 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION AND WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDINGLY TO THE PLAN (UNIFORMLY COVERED LANDSCAPING MATERIAL IN PLANNED LANDSCAPING AREAS), OR THE EQUIVALENT PERMANENT STABILIZATION METHODS.
- SELECT PLANTS SPECIES BASED ON SITE AND SOIL CONDITIONS, PLANNED USE, MAINTENANCE OF THE AREA, TIME OF YEAR, METHOD OF PLANTING, AND THE NEEDS OF THE LAND USER.
- APPLY AGRICULTURAL LIME AT A RATE OF 1–2 TONS/ACRE UNLESS SOIL TEST INDICATE OTHERWISE. PLEASE REFER TO PERMANENT PLANT SPECIES, SEEDING RATES & PLANTING DATES TABLE BELOW FOR INITIAL FERTILIZATION, NITROGEN, TOPDRESSING, AND MAINTENANCE FERTILIZER REQUIREMENT FOR EACH SPECIES.
- APPLY SEED HYDRAULICALLY, IF USING CONVENTIONAL METHODS, USE A CULTI–PACKER SEEDER, DRILL, ROTARY SEEDER, OR BY HAND.
- COVER THE SEED LIGHTLY WITH 1/8"–1/4" OF SOIL FOR SMALL SEED AND 1 1/2"–1" OF SOIL FOR LARGE SEED WHEN USING A CULTI–PACKER.
- CHECK SEED TAGS FOR % GERMINATION & % PURITY IN ORDER TO CALCULATE PURE LIVE SEED (PLS), WHICH IS THE PERCENTAGE OF THE SEEDS THAT ARE PURE AND WILL GERMINATE.
- MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. PLEASE REFER TO Ds1 FOR APPLICATION RATES AND ANCHORING METHODS FOR DIFFERENT MATERIALS FOR DIFFERENT MATERIALS.
- IRRIGATE WHEN THE SOIL IS DRY AND AT A RATE THAT WILL NOT CAUSE RUNOFF.

MAINTENANCE:

- RE–SEED AREAS WHERE AN ADEQUATE STAND OF VEGETATION FAILS TO EMERGE OR WHERE A POOR STAND EXISTS.
- MAINTAIN AT LEAST 6" OF TOP GROWTH UNDER ANY USE AND MANAGEMENT.
- EXCLUDE TRAFFIC UNTIL THE PLANTS ARE ESTABLISHED.
- REFER TO FERTILIZER REQUIREMENTS FOR PERMANENT VEGETATION TABLE FOR SECOND YEAR AND MAINTENANCE FERTILIZER RATES.
- APPLY ONE TON OF AGRICULTURAL LIME EVERY 4–6 YEARS AS INDICATED BY SOIL TESTS.
- MOW BERMUDA GRASS, BAHAI GRASS, AND TALL FESCUE AS DESIRED.
- MOW SERICIA LESPEDEZA ONLY AFTER FROST INSURES THAT THE SEEDS ARE MATURE.

FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N–P–K)	RATE (LBS/ACRE)	N TOP DRESSING RATES (LBS/ACRE)
COOL SEASON GRASSES	FIRST	6–12–12	1500	50–100
	SECOND	6–12–12	1000	–––
	MAINTENANCE	10–10–10	400	30
COOL SEASON GRASSES & LEGUMES	FIRST	6–12–12	1500	0–50
	SECOND	0–10–10	1000	–––
	MAINTENANCE	0–10–10	400	–––
WARM SEASON GRASSES	FIRST	6–12–12	1500	50–100
	SECOND	6–12–12	800	50–100
	MAINTENANCE	10–10–10	400	30
WARM SEASON GRASSES & LEGUMES	FIRST	6–12–12	1500	50
	SECOND	0–10–10	1000	–––
	MAINTENANCE	0–10–10	400	–––

PERMANENT PLANT SPECIES, SEEDING RATES & PLANTING DATES

SPECIES	RATES PER 1000 SQ. FT.	RATES PER ACRE	PLANTING DATES BY REGION			REMARKS
			M–L	P	C	
BAHIA, PENSACOLA ALONE OR WITH TEMPORARY COVER WITH OTHER PERENNIALS	60 LBS. 30 LBS.	1.4 LBS. 0.7 LBS.	–––	4/1–5/31	3/1–5/31	LOW GROWING, SOD PRODUCING; WILL SPREAD INTO BERMUDA LAWNS.
BAHIA, WILMINGTON ALONE OR WITH TEMPORARY COVER WITH OTHER PERENNIALS	60 LBS. 30 LBS.	1.4 LBS. 0.7 LBS.	3/15–5/31	3/1–5/31	–––	LOW GROWING, SOD PRODUCING; WILL SPREAD INTO BERMUDA LAWNS.
BERMUDA, COMMON (HULLED SEED) ALONE OR WITH TEMPORARY COVER WITH OTHER PERENNIALS	10 LBS. 6 LBS.	0.2 LBS. 0.1 LBS.	–––	4/1–5/31	3/15–8/15	QUICK COVER; LOW GROWING; SOD FORMING; NEEDS FULL SUN.
BERMUDA, COMMON (UNHULLED SEED) ALONE OR WITH TEMPORARY COVER WITH OTHER PERENNIALS	10 LBS. 6 LBS.	0.2 LBS. 0.1 LBS.	–––	10/1–2/28	11/1–1/31	PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.
BERMUDA SPRINGS COMMON LAWN AND FORAGE HYBRIDS	40 CU. FT. SOD PLUGS 3x3	0.9 CU. FT.	4/15–6/15	4/1–6/15	4/1–5/31	1 CU. FT. = 650 SPRIGS 1 BU. = 1.25 CU. FT. OR 800 SPRIGS
CENTIPEDE	BLOCK SOD ONLY	BLOCK SOD ONLY	–––	11/1–5/31	11/1–5/31	DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE.
CROWN VETCH WITH WINTER ANNUALS OR COOL SEASON GRASSES	15 LBS.	0.3 LBS.	9/1–10/15	9/1–10/15	–––	MIX WITH 30 LBS. TALL FESCUE OR 15 LBS. RYE; INOCULATED SEED; PLANT ONLY NORTH OF ATLANTA.
FESCUE, TAIL ALONE WITH OTHER PERENNIALS	50 LBS. 30 LBS.	1.1 LBS. 0.7 LBS.	3/1–4/15 OR 8/15–10/15	9/1–10/15	–––	CAN BE MIXED WITH PERENNIAL LESPEDEZES OR CROWN VETCH; NOT FOR DROUGHTY SOILS OR HEAVY USE AREAS.
LESPEDEZA, SERICEA						WILDLY ADAPTED AND LOW MAINTENACE; TAKES 2–3 YEARS TO ESTABLISH; INOCULATE SEED WITH EL INOCULANT; MIZ WITH WEEPING LOVEGRASS; COMMON BERMUDA; BAHAI; OR TALL FESCUE.
SCARIFIED UNSCARIFIED	60 LBS. 75 LBS.	1.4 LBS. 1.7 LBS.	4/1–5/31 9/1–2/28	3/15–5/31 9/1–2/28	3/1–5/15 9/1–2/28	MIX WITH TALL FESCUE OR WINTER ANNUALS.
SEED BEARING HAY	3 TONS	138 LBS.	10/1–2/28	10/1–1/31	10/15–1/15	CUT WHEN SEED IS MATURE BUT BEFORE IT SHATTERS. ADD TALL FESCUE OR WINTER ANNUALS.
LESPEDEZA AMBRO VIGATA OR APPALOW SCARIFIED UNSCARIFIED	60 LBS. 75 LBS.	1.4 LBS. 1.7 LBS.	4/1–5/31 9/1–2/28	3/15–5/31 9/1–2/28	3/1–5/15 9/1–2/28	SPREADING GROWTH WITH HEIGHT 18"–24"; GOOD IN URBAN AREAS; SLOW TO DEVELOP GOOD STANDS; MIX WITH WEEPING LOVEGRASS; COMMON BERMUDA, BAHIA, TALL FESCUE, OR WINTER ANNUALS; DO NOT MIX WITH SERICEA LESPEDEZA, INOCULATE SEED WITH EL INOCULANT.
LESPEDEZA, SHRUB (LESPEDEZA BICOLOR OR LESPEDEZA THUMBERGII) PLANTS	3'x3' SPACING		10/1–3/31	11/1–3/15	11/15–2–28	PLANT IN SMALL CLUMPS FOR WILDLIFE FOOD AND COVER.
LOVEGRASS, WEEPING ALONE WITH OTHER PERENNIALS	4 LBS. 2 LBS.	0.1 LBS. 0.05 LBS.	4/1–5/31	3/15–5/31	3/1–5/31	QUICK COVER; DROUGHT TOLERANT; GROWS WELL WITH SERICEA LESPEDEZA, ON ROAD BANKS AND OTHER STEEP SLOPES; SHORT LIVED.
MAIDENCANE SPRIGS	2'x3' SPACING		2/1–3/31	2/1–3/31	2/1–3/31	FOR VERY WET SITES SUCH AS RIVER BANKS AND SHORELINES. DIG SPRIGS LOCALLY
PANICGRASS, ATLANTIC COSTAL	20 LBS.	0.5 LBS.	–––	3/1–4/30	3/1–4/30	GROWS WELL ON COSTAL SAND DUNE; MIX WITH SERICEA LESPEDEZ, BUT NOT ON THE SAND DUNE.
RED CANARY GRASS ALONE WITH OTHER PERENNIALS	50 LBS. 30 LBS.	1.1 LBS. 0.7 LBS.	8/15–10/15	9/1–10/15	–––	GROWS SIMILAR TO TALL FESCUE; FOR WET SITES.
SUNFLOWER, AZTEC MAXIMILLAN	10 LBS.	0.2 LBS.	4/15–5/31	4/15–5/31	4/1–5/31	MIX WITH WEEPING LOVEGRASS OR OTHER LOW GROWING GRASSES OR LEGUMES.

1. RATES ARE FOR BROADCASTED SEED. IF A SEED DRILL IS USED, REDUCE THE RATES BY ONE–HALF.
2. PLS IS AN ABBREVIATION FOR PURE LIVE SEED. REFER TO GLOSSARY IN GSWCC FIELD MANUAL FOR AN EXPLANATION OF THIS TERM.
3. SEEDING RATES ARE BASED ON PURE LIVE SEEDS (PLS).

PURE LIVE SEED (PLS) EXAMPLE:

TALL FESCUE
85% GERMINATION & 95% PURITY
PLS = 0.85 (GERMINATION) x 0.95 (PURITY)
PLS = 80.75%

SEEDING RATE = 50 LBS PLS/ACRE = 61.92 LBS/ACRE
PLS 80.75% PLS

DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING) Ds3

BECK ARCHITECTURE
3500 LENOX RD
SUITE 250
ATLANTA, GA 30326
PH: 404-949-2300
FAX: 404-949-2301
WWW.BECKARCHITECTURE.COM

CRANSTON

GSWCC Georgia Soil and Water Conservation Commission
Robert Banks Tate
Level II Certified Design Professional
CERTIFICATION NUMBER 0000032940
ISSUED: 05/01/2017 EXPIRES: 05/01/2023

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GEORGIA PROFESSIONAL ENGINEER NO. 35714 R. BANKS TATE

3/2/22

ENGINEER SEAL

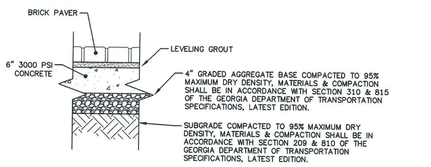
CURRENT SUBMISSION:	DESIGN DEVELOPMENT
#	DATE	SUBMISSION
-	02/25/22	CONSTRUCTION DOCUMENTS

HOLES 8 AND 18
PATRON HUB

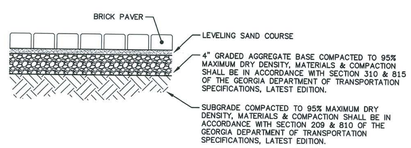
EROSION CONTROL DETAILS

173266 JOB NO.

C506 SHEET



MORTAR SET BRICK PAVERS DETAIL
N.T.S.



DRY-LAYED BRICK PAVERS DETAIL
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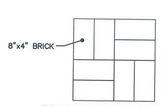
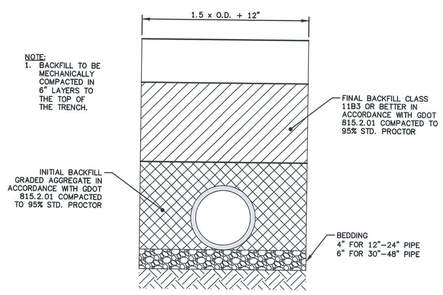
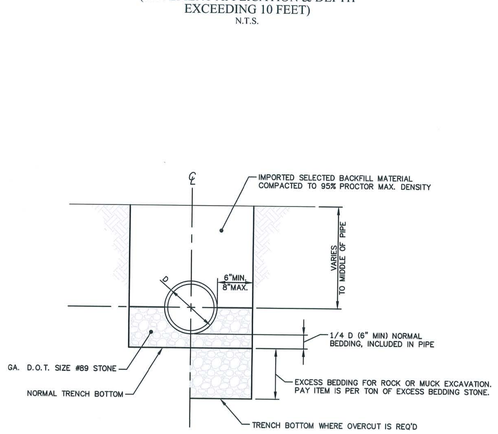


BRICK PAVER PATTERN
N.T.S.

POLYPROPYLENE STORM SEWER (HP PIPE) IS AN ACCEPTABLE ALTERNATIVE TO REINFORCED CONCRETE PIPE (RCP)



POLYPROPYLENE (PP) STORM SEWER
TRENCH & BACKFILL DETAIL
(PAVEMENT APPLICATION & DEPTH EXCEEDING 10 FEET)
N.T.S.



TRENCHING & BACKFILLING FOR STORM PIPE DETAIL
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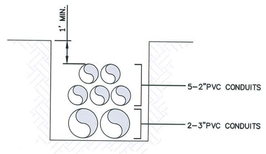
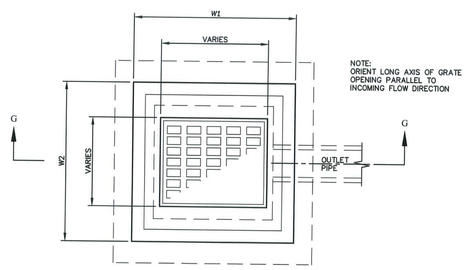


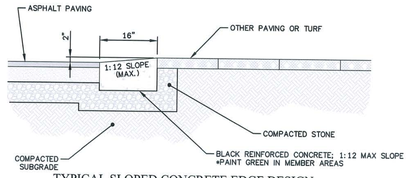
TYPE "A" CONDUIT DETAIL
N.T.S.



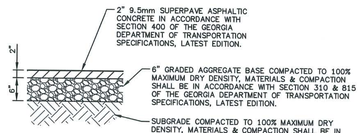
DIMENSION SCHEDULE				
PIPE SIZE	W1*	W2*	MIN. "D"	SLAB "T"
UP TO 24"	4'-0"	4'-0"	4'-0"	6"
30"	4'-0"	4'-6"	4'-6"	10"
36"	5'-0"	5'-0"	5'-0"	12"
42"	5'-0"	5'-10"	5'-6"	12"
48"	6'-2"	6'-4"	6'-0"	12"
54"	6'-8"	6'-8"	6'-6"	12"

* YARD DRAIN DIMENSIONS SHALL BE 1'-6".

GRATE TRAP/ YARD DRAIN
N.T.S.



TYPICAL SLOPED CONCRETE EDGE DESIGN
(NOT TYPICAL IN MEMBER AREAS)
N.T.S.



ASPHALT PAVING DETAIL
N.T.S.

BECK ARCHITECTURE
3500 LENOX RD
SUITE 250
ATLANTA, GA 30326
PH: 404-949-2300
FAX: 404-949-2301
WWW.BECKARCHITECTURE.COM

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GEORGIA PROFESSIONAL ENGINEER NO. 35714 R. BANKS TATE
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HOLES 8 AND 18
PATRON HUB

MISCELLANEOUS DETAILS

GSWCC Georgia Soil and Water Conservation Commission
Robert Banks Tate
Level II Certified Design Professional
CERTIFICATION NUMBER: 0000032948
ISSUED: 05/01/2017 EXPIRES: 05/01/2023

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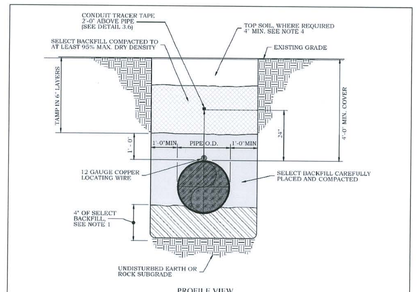
SHEET



PROFILE VIEW

NOTES:
1. THE BOTTOM OF THE TRENCH SHALL BE ACCURATELY GRADED TO PROVIDE UNIFORM BEARING AND SUPPORT FOR EACH SECTION OF PIPE ON UNDISTURBED SOIL AT EVERY POINT ALONG ITS ENTIRE LENGTH UNLESS UNSUITABLE SUBSOIL IS ENCOUNTERED AT THE NORMAL TRENCH SUBGRADE. IF SUCH MATERIAL IS ENCOUNTERED, THE CONTRACTOR SHALL REMOVE IT TO THE DEPTH DIRECTED BY THE ENGINEER IN THE FIELD AND BACKFILL WITH D.O.T., CLASS I, TYPE I AND II MATERIAL IN 4 INCH LAYERS.
2. BOTTOM OF TRENCH SHALL BE FREE OF WATER PRIOR TO PLACING BEDDING.
3. COMPACT SELECT BACKFILL IN LIFTS NOT TO EXCEED 6 INCHES.
4. PROVIDE 4 INCHES OF TOP SOIL WHERE BEDDING IS REQUIRED. SEE NOTE 5 AT GRAVEL AND PAVED AREAS.
5. GRAVEL AND PAVED DRIVEWAYS TO BE RESTORED IN KIND.
6. CONTRACTOR IS SOLELY RESPONSIBLE FOR TRENCH SAFETY INCLUDING SHEETING AND SHORING WHERE REQUIRED.
7. TRENCH BOTTOM SHALL NOT BE LESS THAN 12 INCHES OR MORE THAN 18 INCHES WIDER THAN THE OUTSIDE DIAMETER OF THE PIPE ON BOTH SIDES.
8. 12 GAUGE SINGLE STRAND COATED WIRE TO BE LOCATED ON TOP OF WATER MAIN.
9. WIRE SHALL BE WRAPPED AROUND EACH COUPLOVATION A MINIMUM OF TWO WRAPS.
10. WIRE SHALL BE EXTENDED OUTSIDE OF EACH VALVE BOX AND WRAPPED AROUND THE VALVE BOX FOR EASY CONNECTION OF TRACING EQUIPMENT.

NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM AUGUSTA UTILITIES DEPARTMENT.

APPROVED JAN. 2021
REVISED: JANUARY 2021

TYPICAL TRENCH - WATER MAIN	***AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901***
AUD DETAIL 1.1	

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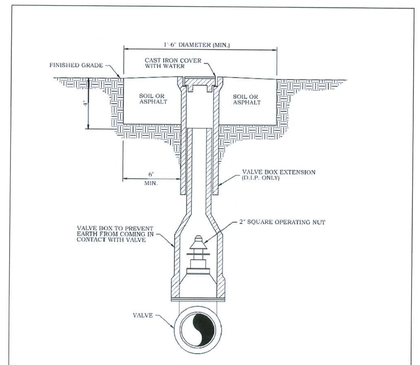

PROFILE VIEW

NOTE:
1. VALVE BOX EXTENSION SHALL BE APPROVED BY AUD.

NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM AUGUSTA UTILITIES DEPARTMENT.

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VALVE BOX INSTALLATION	***AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901***
AUD DETAIL 1.15	

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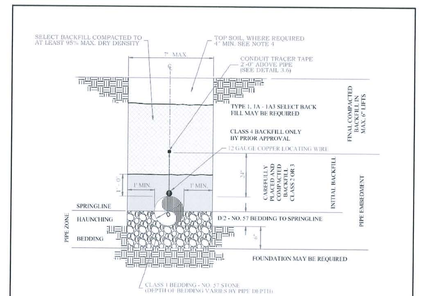

NOTES:
1. TRENCH EXCAVATION, BACKFILL AND COMPACTION SHALL BE IN STRICT CONFORMANCE WITH THE SECTION TITLED "BACKFILLING AROUND PIPE" FOR WASTEWATER COLLECTION SYSTEMS ACCORDING TO AUGUSTA UTILITIES DEPARTMENT STANDARDS AND SPECIFICATIONS.
2. BOTTOM OF TRENCH SHALL BE FREE OF WATER PRIOR TO PLACING BEDDING.
3. COMPACT SELECT BACKFILL IN LIFTS NOT TO EXCEED 6 INCHES.
4. PROVIDE 4 INCHES OF TOP SOIL WHERE BEDDING IS REQUIRED. SEE NOTE 5 AT GRAVEL AND PAVED AREAS.
5. GRAVEL AND PAVED DRIVEWAYS TO BE RESTORED IN KIND.
6. CONTRACTOR IS SOLELY RESPONSIBLE FOR TRENCH SAFETY INCLUDING SHEETING AND SHORING WHERE REQUIRED.
7. TRENCH BOTTOM SHALL NOT BE LESS THAN 12 INCHES OR MORE THAN 18 INCHES WIDER THAN THE OUTSIDE DIAMETER OF THE PIPE ON BOTH SIDES.
8. 12 GAUGE COPPER LOCATING WIRE SHALL BE 12 GAUGE SINGLE STRAND COATED. WIRE SHALL BE LAID ON TOP OF SANITARY SEWER PIPE AND RAN VERTICALLY ALONG MANHOLES. ATTACH LOCATING WIRE ABOVE FINISH GRADE OF ALL MANHOLES USING CLIP AND SCREW WITH WIRE CONTINUOUS FROM MANHOLE TO MANHOLE.

NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM AUGUSTA UTILITIES DEPARTMENT.

APPROVED JAN. 2021
REVISED: JANUARY 2021

TYPICAL TRENCH - SANITARY SEWER	***AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901***
AUD DETAIL 2.1	

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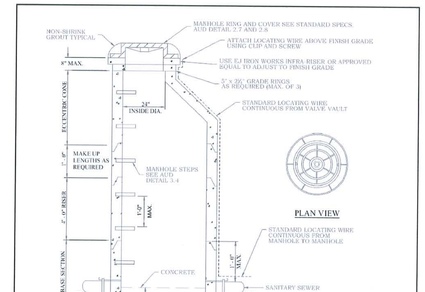

NOTES:
1. IF MANHOLE DEPTH EXCEEDS 20 VERTICAL FEET WALL THICKNESS SHALL BE 6 INCHES.
2. CURVATURE OF INVERT TO HAVE LARGEST POSSIBLE RADIUS.
3. MANHOLE STEPS SHALL BE PLACED 1'-0" O.C. MAXIMUM. (REFERENCE AUD DETAIL 3.4)
4. ALL MANHOLE SECTIONS TO HAVE EXTERIOR JOINTS WRAPPED.
5. WHEN MANHOLE IS OFF SITE INTEGRATED RING AND COVER SHALL BE REQUIRED, AND A MINIMUM 2' ABOVE GRADE. (REFERENCE AUD DETAIL 2.7 AND 2.8)
6. COCKHOUSE - BREAKOUT PRECAST OPENING TO FIT OVSH PIPE.
7. NO MORE THAN 6" ADJUSTMENT BY RISERS ON SING AND COVER.
8. MANHOLES TO BE LINED WITH AN INTERIOR PROTECTIVE COATING, SEE SPECIFICATIONS.
9. STEPS SHALL NOT BE PLACED OVER INVERTS IN OR OUT OF ANY PIPE.

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APPROVED JAN. 2021
REVISED: JANUARY 2021

PRECAST MANHOLE	***AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901***
AUD DETAIL 2.3	

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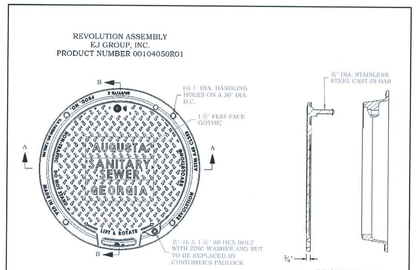

SECTION A-A

NOTE:
MANHOLE FRAME AND COVER TO BE BOLTED TO MANHOLE PER MANUFACTURE'S RECOMMENDATIONS.

NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM AUGUSTA UTILITIES DEPARTMENT.

APPROVED JAN. 2021
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MANHOLE FRAME AND COVER OFFSITE	***AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901***
AUD DETAIL 2.8	

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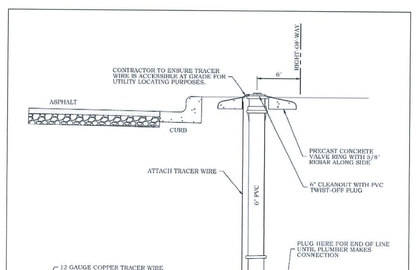

NOTE:
STREET RATED SEWER CLEANOUT CAP REQUIRED WHEN LOCATED IN PAVEMENT. THERE WILL BE NO BENDS BETWEEN THE SEWER CLEANOUT AND THE SEWER TAP

NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM AUGUSTA UTILITIES DEPARTMENT.

APPROVED JAN. 2021
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SANITARY SEWER CLEANOUT	***AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901***
AUD DETAIL 2.9	

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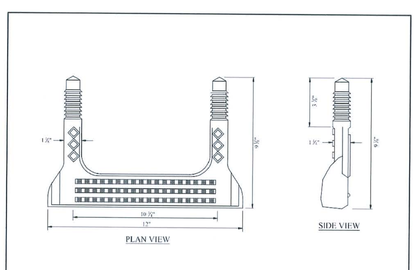

NOTE:
1. STEP SHALL BE MANUFACTURED BY OLIVER TIRE AND RUBBER COMPANY OR APPROVED EQUAL.
2. STEPS SHALL NOT BE PLACED OVER INVERTS IN OR OUT OF ANY PIPE.

NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM AUGUSTA UTILITIES DEPARTMENT.

APPROVED JAN. 2021
REVISED: JANUARY 2021

MANHOLE STEP	***AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901***
AUD DETAIL 3.4	

Water Is Life AUGUSTA UTILITIES

CAUTION BURIED WATER LINE BELOW

CAUTION BURIED SEWER LINE BELOW

CAUTION BURIED FIBER OPTIC LINE BELOW

NOTES:
1. UNDERGROUND MARKING TAPE SHALL BE (4" WIDTH), MARKING TAPE, WITH A MINIMUM 4.0 MIL OVER-ALL THICKNESS.
2. TAPE MUST MEET THE APWA COLOR-CODE STANDARD FOR IDENTIFICATION OF BURIED UTILITIES (WATER - BLUE, SEWER - GREEN, FIBER OPTIC - ORANGE).
3. TAPE TO BE INSTALLED 2' ABOVE THE WATER LINE.

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APPROVED JAN. 2021
REVISED: JANUARY 2021

DETECTOR TAPE	***AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901***
AUD DETAIL 3.6	

Water Is Life AUGUSTA UTILITIES

BECK ARCHITECTURE
3500 LENOX RD
SUITE 250
ATLANTA, GA 30326
PH: 404-949-2300
FAX: 404-949-2301
WWW.BECKARCHITECTURE.COM

CRANSTON

GEORGIA PROFESSIONAL ENGINEER R. BANKS TATE NO. 35714
3/2/22
ENGINEER SEAL

CURRENT SUBMISSION:		DESIGN DEVELOPMENT
#	DATE	SUBMISSION
-	02/25/22	CONSTRUCTION DOCUMENTS

HOLES 8 AND 18
PATRON HUB

MISCELLANEOUS DETAILS

GSWCC Georgia Soil and Water Conservation Commission
Robert Banks Tate
Level II Certified Design Professional
Certification Number 0000052948
Issued: 05/01/2017 Expires: 05/01/2023

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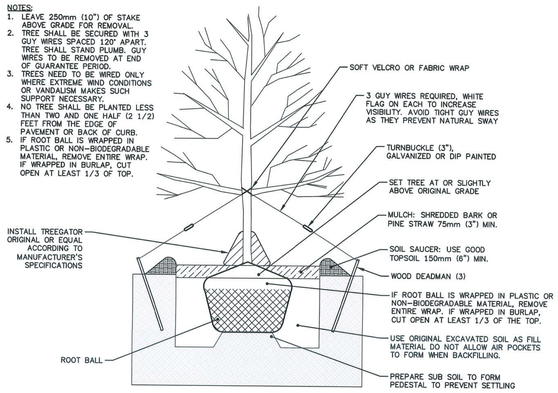
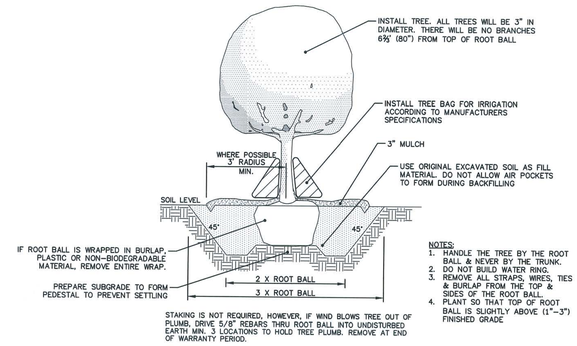
C601 SHEET

NOTES:
1. LEAVE 250mm (10") OF STAKE ABOVE GRADE FOR REMOVAL.
2. TREE SHALL BE SECURED WITH 3 GUY WIRES SPACED 120° APART. TREE SHALL STAND PLUMB. GUY WIRES TO BE REMOVED AT END OF GUARANTEE PERIOD.
3. TREES NEED TO BE WIRED ONLY WHERE EXTREME WIND CONDITIONS OR VANDALISM MAKES SUCH SUPPORT NECESSARY.
4. NO TREE SHALL BE PLANTED LESS THAN TWO AND ONE HALF (2 1/2) FEET FROM THE EDGE OF PAVEMENT OR BACK OF CURB.
5. IF ROOT BALL IS WRAPPED IN PLASTIC OR NON-BIODEGRADABLE MATERIAL, REMOVE ENTIRE WRAP. IF WRAPPED IN BURLAP, CUT OPEN AT LEAST 1/3 OF TOP.



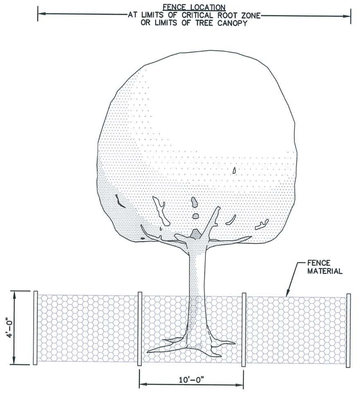
TREE PLANTING DETAIL
N.T.S.



NOTES:
1. HANDLE THE TREE BY THE ROOT BALL & NEVER BY THE TRUNK.
2. DO NOT BUILD WATER RING.
3. REMOVE ALL STRAPS, WIRES, TIES & BURLAP FROM THE TOP & SIDES OF THE ROOT BALL.
4. PLANT SO THAT TOP OF ROOT BALL IS SLIGHTLY ABOVE (1"-3") FINISHED GRADE

TREE PLANTING DETAIL
N.T.S.

GENERAL NOTES:
1. ALL REQUIRED TREES SHALL BE GROWN WITHIN ONE CLIMATIC ZONE OF AUGUSTA, GA.
2. ALL REQUIRED TREES SHALL BE NURSERY GROWN, TYPICAL OF THEIR SPECIES OR VARIETY, WITH NORMAL, DENSELY DEVELOPED BRANCHES AND VIGOROUS, FIBROUS ROOT SYSTEMS. TREES SHALL BE SOUND, HEALTHY, VIGOROUS, FREE FROM DEFECTS, FREE FROM DISFIGURING KNOTS, FREE FROM SUN SCALD INJURIES, FROST CRACKS AND/OR ABRASIONS OF THE BARK, AND FREE FROM PLANT DISEASES, INSECT EGGS, BORERS, AND ALL FORMS OF INFESTATION. ALL TREES SHALL HAVE FULLY DEVELOPED FORM WITHOUT VOIDS AND OPEN SPACE. TREES SHALL NOT BE LOOSE IN THE CONTAINER OR ROOT BALL. IT IS RECOMMENDED THAT DUG TREES SHALL HAVE BEEN ROOT PRUNED AT LEAST ONCE.
3. ALL REQUIRED TREES SHALL BE SET IN THE PLANTING PIT TO PROPER GRADE AND ALIGNMENT, AND SHALL BE SET UPRIGHT, PLUMB AND FACED TO GIVE THE BEST APPEARANCE OR RELATIONSHIP TO OTHER TREES. EACH TREE SHALL BE SET 1-2" ABOVE THE FINISH GRADE AND BACKFILL SHALL BE BROUGHT EVEN WITH THE TOP OF THE ROOT BALL. NO FILL SHALL BE PERMITTED ATOP THE ROOT BALL.
4. ALL BURLAP, ROPES, STRAPS, AND WIRES SHALL BE REMOVED FROM THE ROOT BALL. IF IT IS NOT POSSIBLE TO REMOVE THE BURLAP AND WIRE FROM THE BOTTOM OF THE ROOT BALL, THE BURLAP AND WIRE SHALL BE CUT AWAY FROM THE SIDES AND REMOVED FROM THE HOLE.
5. AFTER REQUIRED TREES ARE SET, THE BACKFILL SHALL BE MUDDLED AROUND THE BASE OF THE ROOT BALL AND ALL VOIDS SHALL BE FILLED.
6. ALL REQUIRED TREES SHALL HAVE THEIR PLANTING PITS MULCHED WITH APPROVED MULCHING MATERIAL IMMEDIATELY AFTER PLANTING. THE MULCHED AREAS SHALL BE THOROUGHLY WATERED. NOTE: MULCH SHALL BE PLACED TO A MAXIMUM THICKNESS OF 3" EXCEPT AT THE TRUNK, WHERE IT SHALL BE NO MORE THAN 1".
7. IF STAKING AND SUPPORTS HAVE BEEN INSTALLED ON THE REQUIRED TREE(S), ALL STAKING AND SUPPORTS SHALL BE REMOVED AFTER ONE GROWING SEASON.
8. ALL REQUIRED TREES SHALL HAVE STRAIGHT, SINGLE CENTRAL LEADERS. TREES THAT HAVE A MAIN TRUNK FORMING A "Y" SHAPE ARE NOT ACCEPTABLE. TREES THAT ARE NOT FULLY BRANCHED WILL NOT BE ACCEPTED. TREES SHALL HAVE NO BARK DAMAGE AND SHALL NOT BE LEANING OR HAVE A SIGNIFICANT SWEEP, CROOK OR BEND. TREES SHALL HAVE A MINIMUM 3" CALIPER AND 8' IN HEIGHT AND SHALL HAVE NO BRANCH MORE THAN HALF THE DIAMETER THAN THE MAIN LEADER AND SHALL HAVE A STRAIGHT, UNBRANCHED TRUNK TO 6'. TREES SPECIFIED AS "MULTI-STEMMED" SHALL HAVE A MINIMUM 3 AND A MAXIMUM OF 5 SEPARATE CANES A MINIMUM OF 1" CALIPER EACH COMING FROM THE ROOT BALL AND PRUNED INTO TREE FORM WITH NO BRANCHES ON THE LOWER HALF OF THE TREE. MULTIPLE PLANTS SHALL NOT BE USED AS A "MULTI-STEMMED" PLANT.
9. ALL CREPE MYRTLES OR OTHER MULTI-STEMMED TREES SHALL HAVE A MINIMUM OF 3 AND A MAXIMUM OF 5 SEPARATE CANES A MINIMUM OF 1" CALIPER EACH COMING FROM THE ROOT BALL AND MUST BE PRUNED INTO TREE FORM WITH NO BRANCHES ON THE LOWER HALF OF THE TREE. MULTIPLE PLANTS SHALL NOT BE USED AS A MULTI-STEMMED PLANT.
10. NO LIGHTING CAN BE WITHIN 20' OF A REQUIRED LANDSCAPE ISLAND.
11. LIGHTING ON ELECTRICAL PLANS MUST BE CONSISTENT WITH LIGHTING DELINEATED ON THE LANDSCAPE PLAN. IF CONFLICTS BETWEEN THE TWO PLANS ARISE, THE LIGHTING PLAN ON THE LANDSCAPE PLAN SUPERCEDES LIGHTING ON THE ELECTRICAL PLAN.
12. NO SIGNS, WITH EXCEPTION OF SMALL DIRECTIONAL SIGNS (THESE SIGNS MAY NOT EXCEED 30" IN HEIGHT NOR MORE THAN 4' IN AREA), MAY BE LOCATED WITHIN 20' OF A REQUIRED TREE OR WITHIN REQUIRED LANDSCAPE ISLANDS.
13. NO BIKE RACKS, FIRE HYDRANTS, UTILITY BOXES, TRANSFORMERS, OR OTHER SITE APPURTENANCES MAY BE LOCATED IN A REQUIRED LANDSCAPE ISLAND.
14. A PERMANENT WATER SOURCE MUST BE WITHIN 100' OF ALL REQUIRED TREES.
15. NO NEW UTILITIES (OVERHEAD OR UNDERGROUND) MAY BE LOCATED DIRECTLY ABOVE OF BELOW EXISTING OR PROPOSED TREE LOCATIONS. PROPOSED UTILITIES MUST BE ROUTED AWAY FROM ALL REQUIRED TREES ON THIS SITE.
16. LIGHTING PLAN IS PROVIDED ON THE LANDSCAPE ARCHITECT PLANS.
17. BICYCLE PARKING IS PROVIDED ON THE LANDSCAPE ARCHITECT PLANS. 18. IRRIGATION IS PROVED ON THE LANDSCAPE ARCHITECT PLANS.



TREE PROTECTION FENCE DETAIL
N.T.S.

NOTE: INSTALL TREE PROTECTION FENCE AROUND ALL TREES TO REMAIN

BECK ARCHITECTURE
3500 LENOX RD
SUITE 250
ATLANTA, GA 30326
PH: 404-949-2300
FAX: 404-949-2301
WWW.BECKARCHITECTURE.COM

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GSWCC Georgia Soil and Water Conservation Commission
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Level II Certified Design Professional
Certification Number 0000052948
Issued: 05/01/2017 Expires: 05/01/2023

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CURRENT SUBMISSION:		DESIGN DEVELOPMENT
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HOLES 8 AND 18
PATRON HUB

TREE DETAILS & NOTES

173266
JOB NO.

C602
SHEET