

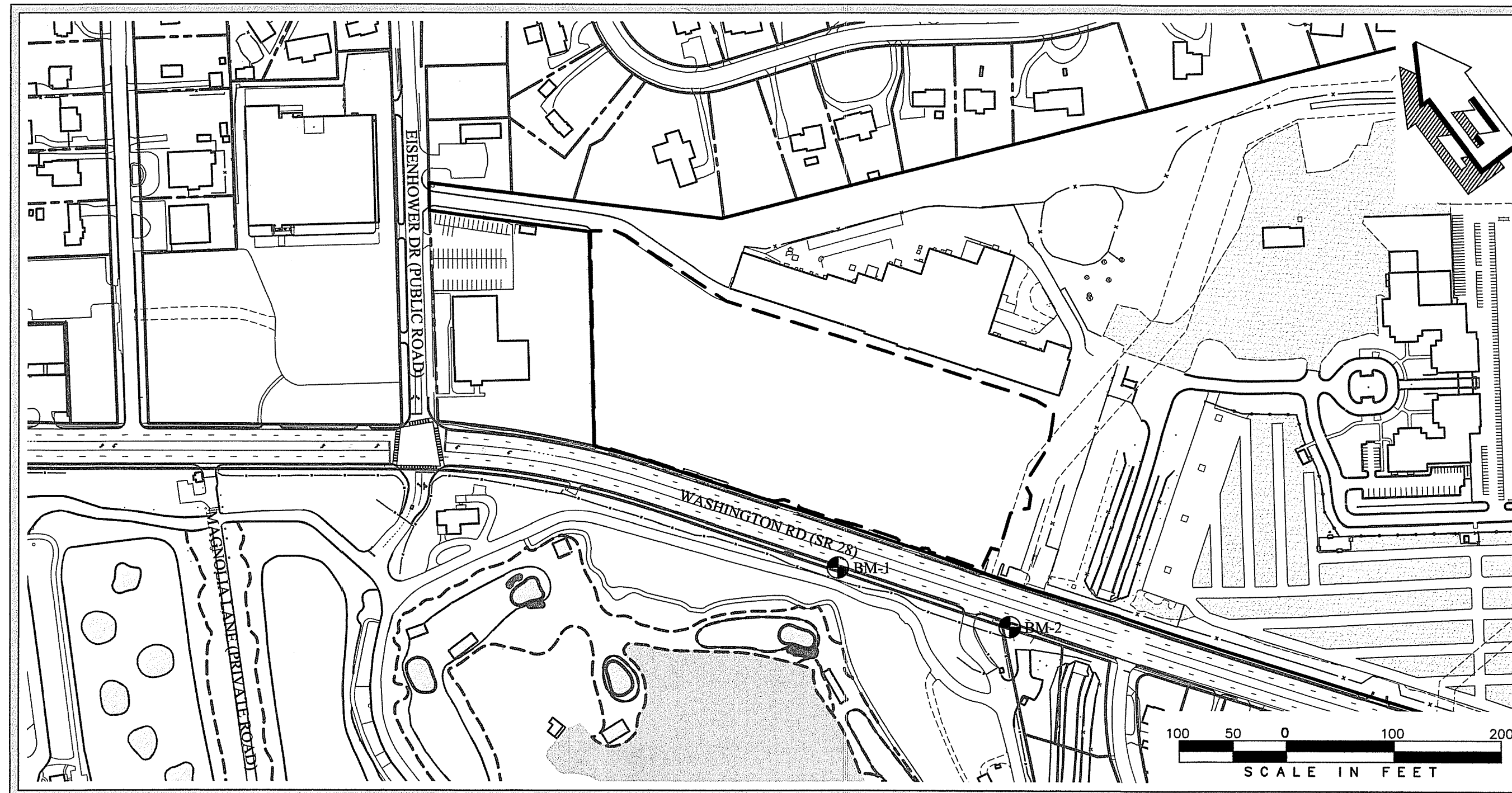
CONSTRUCTION PLANS FOR

North Campus Preliminary Grading

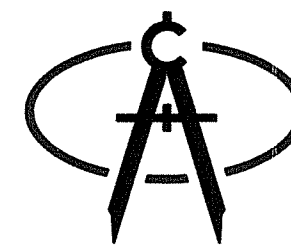
PREPARED FOR

ANI

2604 WASHINGTON RD
AUGUSTA GA, 30904



PREPARED BY

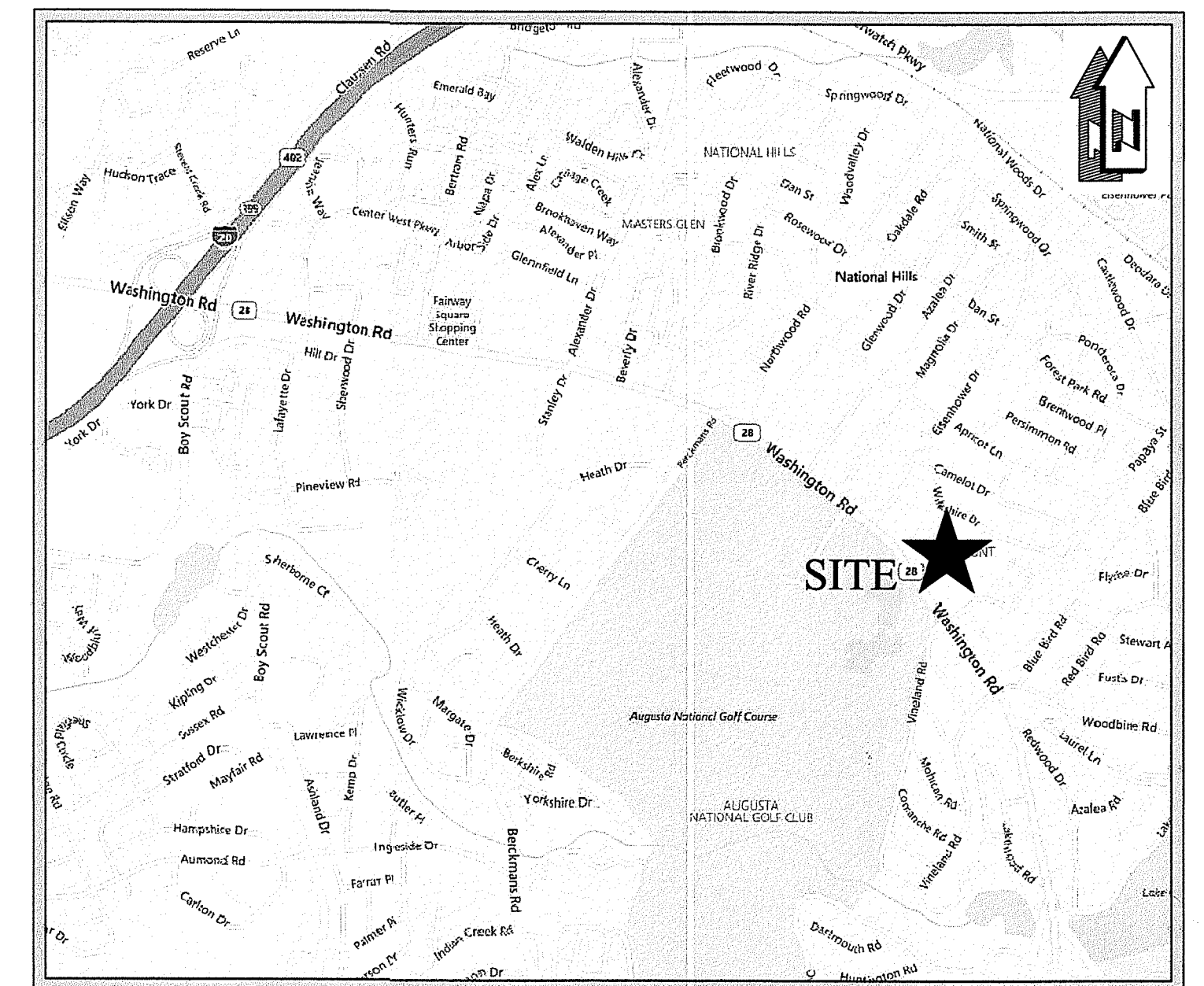


CRANSTON

March 1, 2022

PARCEL NUMBERS OF PROPERTIES FOR THIS PROJECT:

019-2-166-02-0
 019-2-166-03-0
 019-2-166-05-0
 019-2-166-06-0
 019-2-166-07-0
 019-2-166-08-0



LOCATION MAP
N.T.S.

PROJECT DATA:

1. ACREEAGE OF PROPERTY: 403.12 ACRES
2. ACREEAGE OF DEVELOPMENT: 6.58 ACRES
3. OWNER/DEVELOPER:
ANI
2604 WASHINGTON RD
AUGUSTA GA, 30904
24 HOUR CONTACT:
NAME: JEFF SMITH
PHONE: 706-667-6301
EROSION 24 HOUR CONTACT:
NAME: W. BRAD OWEN
PHONE (BUSINESS): 706-667-6301
PHONE (MOBILE): 706-829-9368
4. DRAINAGE AREA THIS PROJECT: 7.69 ACRES
5. PROPOSED IMPERVIOUS AREA: 0.17 ACRES
6. EXISTING IMPERVIOUS AREA: 3.89 ACRES
7. RECEIVING STREAM: RAE'S CREEK
8. ULTIMATE STREAM: SAVANNAH RIVER
9. EXISTING LAND USE: GOLF COURSE AMENITIES
10. PROPOSED LAND USE: GOLF COURSE AMENITIES
11. THE SITE RELEASES INTO THE CITY OF AUGUSTA STORM DRAINAGE ALONG WASHINGTON ROAD AND THEN RELEASED BACK ON TO AUGUSTA NATIONAL GOLF COURSE PROPERTY SOUTH OF WASHINGTON ROAD.
12. CURRENT ZONING: B2 (GENERAL BUSINESS)
13. SURROUNDING LAND USE & ZONING: R1 (SINGLE FAMILY RESIDENTIAL); B2 (GENERAL BUSINESS)
14. ACCORDANCE TO FEMA FIRM PANEL NO. 13245C0020G, NO PORTION OF THE PROJECT SITES WITHIN THE LIMITS OF THE 100 YEAR FLOOD PLAIN.
15. THERE ARE NO STATE WATERS WITHIN 200 FEET OF THE PROJECT SITE AS SHOWN ON THE PLANS.
16. LOCAL AD-VALOREM TAXES HAVE BEEN PAID.
17. ALL PROPERTY ON AND AROUND THE PROPOSED DEVELOPMENT IS OWNED BY THE AUGUSTA NATIONAL GOLF CLUB AN IS LISTED UNDER TAX MAP PARCEL 019-2-166-03-0.
18. CONSTRUCTION EXIT COORDINATES LAT: 33.503044 LONG: 82.014836

STORM WATER QUALITY TABLE

ID #	STRUCTURE #/LOCATION	TYPE OF FEATURE	MANUFACTURER/MODEL #	SHEET #	DESIGN FLOW	MAX FLOW
1	CRUSH AND RUN	POROUS ASPHALT	CUSTOM DESIGN	C404	16.33 CFS	16.33 CFS

STORMWATER QUALITY SYMBOL AT EACH FEATURE ON SITE PLAN
WHICH CORRESPONDS TO THE ITEM ON THE CHART.



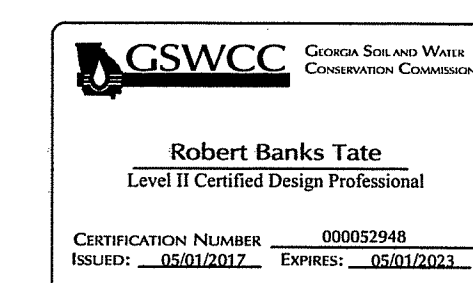
TOTAL WATER QUALITY VOLUME REQUIRED	1951 CF
TOTAL WATER QUALITY VOLUME PROVIDED	1951 CF

BENCHMARK DATA

NAME	DESCRIPTION	PT #	NORTHING	EASTING	ELEVATION
BM-1	ZPKN	6005	1274317.96	702511.04	301.09 (NAVD88)
BM-2	Z4CR	6006	1274317.96	702320.85	296.69 (NAVD88)

BENCHMARK DATA:

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



LEGEND

SYMBOLS		SYMBOLS	
	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 AUGUSTA NATIONAL UTILITY		PROPOSED GAS VALVE
	PROPOSED AUGUSTA NATIONAL UTILITY		BORING
	EXISTING OVERHEAD UTILITY (UNSPECIFIED)		BENCHMARK
	EXISTING UNDERGROUND POWER	A/C	AIR CONDITIONER
	PROPOSED UNDERGROUND POWER	BFP	BACKFLOW PREVENTER
	EXISTING OVERHEAD POWER	C	CABLE
	PROPOSED OVERHEAD POWER	CO	CLEAN OUT
	EXISTING UNDERGROUND TELEPHONE	CH	CHINABERRY TREE
	PROPOSED UNDERGROUND TELEPHONE	CM	CREPE MYRTLE TREE
	EXISTING OVERHEAD TELEPHONE	CP	CONCRETE PAD
	PROPOSED OVERHEAD TELEPHONE	CMP	CORRUGATED METAL PIPE
	EXISTING UNDERGROUND CABLE	CPP	CORRUGATED PLASTIC PIPE
	PROPOSED UNDERGROUND CABLE	CW	CHILLED WATER
	EXISTING FIBEROPTIC	DGWD	DOGWOOD TREE
	PROPOSED FIBEROPTIC	DI	DROP INLET
	EXISTING GAS	DIP	DUCTILE IRON PIPE
	PROPOSED GAS	DWT	DOUBLE WING DRAP
	EXISTING WATER	EBX	ELECTRICAL BOX
	PROPOSED WATER	EO	ELECTRICAL OUTLET
	EXISTING SANITARY SEWER	F	FOUNTAIN
	PROPOSED SANITARY SEWER	FP	FLAG POLE
	FENCE: EXISTING	FO	FIBEROPTIC
	FENCE: PROPOSED	G	GAS
	FENCE: EXISTING CHAINLINK	GM	GAS METER
	FENCE: PROPOSED CHAINLINK	GP	GUY POLE
	FENCE: EXISTING WIRE	GUY	GUY WIRE
	FENCE: PROPOSED WIRE	GT	GRATE TRAP
	FENCE: EXISTING WOOD	GV	GAS VALVE
	FENCE: PROPOSED WOOD	HBT	HOOD BACK TRAP
	ORANGE BARRIER FENCE OR C-POP SILT FENCE	HRDWD	HARDWOOD TREE
	SILT FENCE	ICV	IRRIGATION CONTROL VALVE
	EXISTING BUILDING	IE=	INVERT ELEVATION
	PROPOSED BUILDING	LP	LIGHT POLE
	EXISTING CONCRETE/PAVING	MAG	MAGNOLIA TREE
	PROPOSED CONCRETE AND/OR PAVING	MPL	MAPLE TREE
	EXISTING ASPHALT PAVING	MW	MONITORING WELL
	PROPOSED ASPHALT PAVING	OTF	OPEN TOP FOUND
	EXISTING GRAVEL PAVING OR RIP-RAP	PN	PINE TREE
	PROPOSED GRAVEL PAVING OR RIP-RAP	PE	PECAN TREE
	EXISTING BRICK PAVING	PM	POWER METER
	PROPOSED BRICK PAVING	PO	POWER OUTLET
	EXISTING UTILITY POLE	PP	POWER POLE
	PROPOSED UTILITY POLE	PVC	POLYVINYLCHLORIDE PIPE
	EXISTING STRAIN POLE	RCP	REINFORCED CONCRETE PIPE
	PROPOSED STRAIN POLE	RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVETER
	EXISTING GUY WIRE	SAN	SANITARY SEWER
	PROPOSED GUY WIRE	SAP	SAPLING TREE
	EXISTING ELECTRIC LIGHT	SD	STORM DRAIN
	EXISTING LIGHT POLE	SH	SPRINKLER HEAD
	PROPOSED LIGHT POLE	SP	SPEAKER POLE
	EXISTING MANHOLE	SWT	SINGLE WING TRAP
	PROPOSED MANHOLE	T=	TOP ELEVATION
	EXISTING FIRE HYDRANT	TB	TRUNCATED DOME
	PROPOSED FIRE HYDRANT	TP	TELEPHONE PEDESTAL
	EXISTING IRRIGATION VALVE	TSB	TRAFFIC SIGNAL BOX
	PROPOSED IRRIGATION VALVE	TSC	TRAFFIC SIGNAL CABINET
	EXISTING WATER METER	TSP	TRAFFIC SIGNAL POLE
	PROPOSED WATER METER	WF	WATER FOUNTAIN

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 - THIS MAP CONTAINS AERIAL AND GROUND SURVEY WORK PERFORMED BY CRANSTON ENGINEERING GROUP, P.C.
CONDUCTED IN 2008. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ANY INFORMATION SHOWN ON THE DRAWINGS OR BY DRAWINGS OR
NOTES OR ANY OTHER MAPPER, 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.
5. THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE OWNER IN THE EVENT THAT PREVIOUSLY UNKNOWN HISTORICAL OR ARCHEOLOGICAL SITES ARE
DISCOVERED. THE CONTRACTOR SHALL NOT REMOVE OR DESTROY ANY SUCH SITES. ANY SUCH SITES WILL BE ALLOWED UNTIL AUTHORIZED.
6. ALL CONSTRUCTION OF WATER & SANITARY SEWER LINES SHALL BE IN ACCORDANCE WITH AUGUSTA UTILITIES DEPARTMENT'S STANDARDS &
SPECIFICATIONS.
7. ALL STORMWATER 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.
8. 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
COSTS TO BE PAID BY THE CONTRACTOR.
9. UNSUITABLE AND SURPLUS EXCAVATION MATERIAL NOT REQUIRED FOR FILL SHALL BE DISPOSED OF OFFSITE UNLESS ONSITE WASTE OR SPOIL AREAS
ARE PROVIDED.
10. 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 RATCH. 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
REQUIREMENTS FOR INSPECTION SHALL BE OBTAINED FROM THE COUNTY ENGINEER. THE CONTRACTOR 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.
11. ANY DISCREPANCIES, ERRORS, OR OMISSIONS DISCOVERED ON THE PLANS OR IN THE SPECIFICATIONS SHOULD BE NOTED ON THE CONTRACTORS
PROPOSAL AND MAILED TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING THE DISCREPANCIES.
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. LOCATION OF 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. CONTRACTOR SHALL HAVE REASONABLE LEADWAY FOR HORIZONTAL ADJUSTMENTS OF MANHOLES AS REQUIRED BY FIELD CONDITIONS. ANY SUBSTANTIAL
ADJUSTMENTS TO THE PLANS SHALL BE APPROVED BY THE OWNER. NO ELEVATION ADJUSTMENTS SHALL BE MADE. THE ELEVATION AND SHOULD BE FIELD
ADJUSTED TO BE FLUSH WITH FINAL GRADE IN PAVEMENT AND A MINIMUM OF 18" ABOVE FINISHED GRADE ELSEWHERE, UNLESS OTHERWISE NOTED.
16. UNLESS NOTED OTHERWISE, SANITARY SEWER MAINS SHALL BE SDR 35-PVC.
17. ALL SANITARY SEWER SERVICES, WHETHER NEW OR A RECONNECTION OF AN EXISTING TAP, SHALL BE 6" INSIDE DIAMETER.
18. THERE SHALL BE NO CONNECTION TO EXISTING SANITARY SEWER LINES UNTIL THE PROPOSED SEWER LINE IS INSPECTED AND APPROVED BY THE
AUGUSTA UTILITIES ENGINEERING DEPARTMENT AND/OR DESIGN ENGINEER.
19. ALL 12-IN-TO EXISTING MANHOLES SHALL BE CORED. ALL MANHOLES REQUIRE "K OR N SEAL" OR EQUAL RUBBER BOOTS.
20. SEWER LINES SHALL BE HUP TESTED PER UNI-BELL PVC PIPE ASSOCIATION PRACTICE NUMBER UNI-B-6--98. THE COST OF THIS TESTING SHALL BE
PAID BY THE CONTRACTOR.
21. ALL WATER MAINS SHALL BE CLASS 500 DUCTILE IRON WITH A MINIMUM 150 PSI RATING, OR CLASS 200 PVC MEETING AWWA C900, UNLESS
OTHERWISE SPECIFIED OR SHOWN.
22. ALL WATER MAINS ARE TO BE TESTED, CHLORINATED, AND CHECKED FOR BACTERIA IN ACCORDANCE WITH ALL AUGUSTA UTILITY DEPARTMENT
STANDARDS.
23. COPPER WIRE (12 GAUGE, INSULATED) SHALL BE ATTACHED ALONG TOP OF ALL BURIED PVC WATER LINES, WRAPPED AROUND SERVICE CORPORATIONS
AND STUBBED OUT OUTSIDE AND WRAPPED AROUND ALL VALVE BOXES FOR LOCATING PURPOSES.
24. ALL WATER VALVES, INCLUDING HYDRANT LATERALS, SHALL BE OPEN-LEG IF INSTALLED SOUTH OF GORDON HIGHWAY (SR 106)
OR OPEN-RIGHT IF INSTALLED NORTH OF GORDON HIGHWAY.
25. THE CONTRACTOR SHALL FURNISH AND INSTALL AN APPROVED METER BOX (ROME TYPE 10"x19"x10" CAST IRON OR APPROVED EQUAL) AT THE
TERMINATION POINT OF ALL WATER MAINS. THE CONTRACTOR MAINTAIN IT UNTIL SUCH TIME AS METER IS INSTALLED.
26. WATER SERVICES SHALL HAVE A MINIMUM DIAMETER OF 12 INCHES.
27. WATER MAINS INSTALLED UNDER THIS CONTRACT SHALL HAVE A MINIMUM COVER OF 48 INCHES, EXCEPT WHERE THERE IS A CONFLICT WITH EXISTING
OR PROPOSED STRUCTURES. IN THE CASE OF SUCH CONFLICT, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND DETERMINE ALL
CONFLICTS AND OBTAIN THE NECESSARY PERMITS. THE CONTRACTOR SHALL INSURE THAT SUFFICIENT BURIAL DEPTH OF WATER MAINS AND APPURTENANCES
IS ACHIEVED TO ELIMINATE ANY GRADE OR PLAN CONFLICTS.
28. DOUBLE CHECK ASSEMBLY SHALL BE A WATTS MODEL PER DETAIL OR APPROVED EQUAL.
29. PER AUGUSTA UTILITIES SPECIFICATIONS FOR BACKFLOW INSTALLATION FOR NON-RESIDENTIAL DEVELOPMENT, A MINIMUM "DOUBLE CHECK" BACKFLOW
DEVICES SHALL BE INSTALLED WITH THE DEPARTMENT OF PUBLIC WORKS & ENGINEERING. NOTIFICATION OF WORK OR MAINTENANCE IS GIVEN.
TYPE "A" BACKFLOW DEVICES. BACKFLOW DEVICES SHALL BE TESTED BY A CERTIFIED PERSON WITHIN 5 WORKING DAYS OF INSTALLATION & THE RESULTS
FURNISHED TO THE UTILITIES ENGINEERING DEPARTMENT WITHIN 10 WORKING DAYS OF INSTALLATION PRIOR TO ANY WATER USE.
30. PER AUGUSTA UTILITIES SPECIFICATIONS FOR BACK-FLOW INSTALLATIONS RESIDENTIAL DEVELOPMENT SHALL INSTALL A "DUAL CHECK" BACK-FLOW
DEVICES. THE CONTRACTOR SHALL NOTIFY THE WATER METER SERVICE DEPARTMENT OF ANY WORK TO BE DONE ON THE WATER METER.
31. WATER METERS SHALL BE PURCHASED FROM THE AUGUSTA UTILITIES DEPARTMENT.
32. MAXIMUM SANITARY SEWER INFILTRATION SHALL NOT EXCEED 100GPD/INCH OF PIPE DIAMETER PER MILE.
33. FINISH FLOOR ELEVATIONS OF ALL PROPOSED BUILDINGS SHALL BE A MINIMUM OF FIVE (5) FEET ABOVE THE SANITARY SEWER MAIN/MANHOLE AT THE
POINT OF ENTRY.
34. PROVIDE 0.1 FOOT PAVE ACROSS ALL SANITARY SEWER MANHOLES.
35. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD WITH THE CITY ENGINEER OR HIS REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION. THIS
CONFERENCE SHALL BE ATTENDED BY THE CONTRACTOR, THE CITY ENGINEER, AND THE DEPARTMENT OF PUBLIC WORKS & ENGINEERING. THE
OWNER OF THE PROPERTY AFFECTED BY THIS DEVELOPMENT PLAN APPROVAL, PRIOR TO REQUESTING APPROVAL OF THE FINAL PLAN, 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
REGISTERED SURVEYOR. I HAVE REVIEWED THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF
TRANSPORTATION AND THE AUGUSTA-RICHMOND COUNTY'S DEPARTMENT OF PUBLIC WORKS & ENGINEERING DEPARTMENT PRIOR TO ANY WORK BEING
ISSUED.
36. 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.
37. NO EXTRA PAYMENT WILL BE MADE FOR REPAIRS TO DAMAGE OF EXISTING UTILITIES.
38. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES, ABOVE GROUND, UNDERGROUND, POWER POLES, ETC.; CONTRACTOR SHALL COORDINATE
CONSTRUCTION ACTIVITIES WITH APPROPRIATE UTILITIES PRIOR TO OR DURING CONSTRUCTION.
39. NOTIFY AUGUSTA UTILITIES DEPARTMENT BEFORE DIGGING NEAR WATER AND SANITARY SEWER LINES.
40. THE FOLLOWING UTILITY OWNERS MAY HAVE SERVICES WHICH CONFLICT WITH THE PROPOSED CONSTRUCTION ON THIS PROJECT:
ATLANTA GAS LIGHT COMPANY AT&T
GEORGIA POWER COMPANY KUC TELECOM
AUGUSTA UTILITIES - WATER & SEWER COMCAST
JEFFERSON EMC WOW
41. 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.
42. THE CONTRACTOR WILL NOT BE HELD FOR DELAYS OR EXTRA EXPENSE INCURRED BY UTILITY FACILITIES, OBSTRUCTIONS, OR ANY OTHER ITEMS NOT
RECORDED ON THE PLANS OR SHOWN ON THE DRAWINGS.
43. REPLACED/RELOCATED AND NEW WATER MAINS MUST BE TESTED BY THE CONTRACTOR AND APPROVED BY THE AUGUSTA UTILITIES DEPARTMENT
BEFORE BEING PUT INTO SERVICE.
44. THE CONTRACTOR SHALL 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.
45. THE CONTRACTOR IS RESPONSIBLE FOR ALL ASPECTS OF ANY WATER AND/OR SANITARY SEWER LINE RELOCATION, INCLUDING BUT NOT LIMITED TO
SCHEDULING, AUTHORIZING, NOTICING, AND OPERATING THE OPERATION OF THE WATER SYSTEM VALVES, IF ANY, SHALL BE THE RESPONSIBILITY OF THE
OWNER BUT SHALL BE COORDINATED BY THE CONTRACTOR.

GENERAL AUD NOTES:

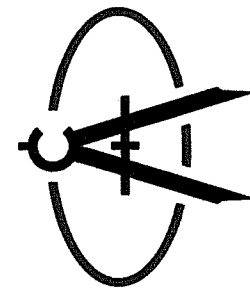
1. ALL CONSTRUCTION OF WATER DISTRIBUTION SYSTEMS AND WASTEWATER COLLECTION SYSTEM LINES SHALL BE IN ACCORDANCE WITH AWD's WATER & SANITARY SEWER SYSTEMS-DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND DETAILS (LATEST PUBLICATION).
2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATION, SIZE AND MATERIAL OF ANY EXISTING WATER OR SANITARY SEWER FACILITY PROPOSED FOR CONNECTION OR USE BY THIS PROJECT.
3. CONTRACTOR SHALL CONTACT THE UTILITIES PROTECTION CHIEF, "CALL BEFORE YOU DIG" SERVICE (811) IN ORDER TO LOCATE UTILITIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION. THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AS DETERMINED FROM EXISTING RECORDS.
4. THE CONTRACTOR SHALL COORDINATE THE WORK OF THE UTILITY COMPANIES.
5. THE CITY OF AUGUSTA ENGINEERING DIVISION SHALL BE NOTIFIED AT LEAST 48 HOURS (TWO WORKING DAYS) IN ADVANCE DURING REGULAR BUSINESS HOURS (8:30 AM TO 5:00 PM) OF ANY AUGUSTA, GEORGIA RIGHT-OF-WAY ENCROACHMENT. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WITHIN AUGUSTA, GEORGIA RIGHT-OF-WAY, CONTACT THE CITY OF AUGUSTA ENGINEERING DIVISION AT (706) 821-1706.
6. THE AUD ENGINEERING DIVISION SHALL BE NOTIFIED AT LEAST 48 HOURS (TWO WORKING DAYS) IN ADVANCE DURING REGULAR BUSINESS HOURS (8:30 AM TO 5:00 PM) OF ANY AUGUSTA, GEORGIA RIGHT-OF-WAY ENCROACHMENT. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WITHIN AUGUSTA, GEORGIA RIGHT-OF-WAY, CONTACT THE CITY OF AUGUSTA ENGINEERING DIVISION AT (706) 821-1706.
7. DISTURBANCE OF ANY SURVEY MARKERS OR MONUMENTS REQUIRES RE-ESTABLISHMENT BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
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. THE CONTRACTOR SHALL MAINTAIN A MINIMUM STRENGTH OF 3,000 PSI.
10. IF A CONFLICT ARISES BETWEEN THE NEW WORK AND THE EXISTING WATER AND SEWER FACILITIES DURING THE COURSE OF CONSTRUCTION, IT WILL BE THE RESPONSIBILITY OF THE OWNER/DEVELOPER/CONTRACTOR, AT HIS EXPENSE, AND NOT AUD'S, TO CORRECT THE DISCREPANCY AS DIRECTED BY REPRESENTATIVE OF AUD.
11. ANY EXISTING AUGUSTA-RICHMOND COUNTY ROAD OR ROADWAY WHICH CARRY STORM MANHOLES, INLET BOXES, ETC., SHALL BE MAINTAINED AND/OR ADJUSTED AS IS APPROPRIATE TO ENSURE PROPER UTILIZATION.
12. ALL MATERIALS DEEMED SALVAGEABLE BY AUD ARE THE PROPERTY OF AUGUSTA, GEORGIA AND WILL BE REMOVED AND STORED ON SITE FOR FUTURE REUSE. MATERIALS NOT DEEMED SALVAGEABLE BY AUD ARE THE PROPERTY OF AUGUSTA UTILITIES DEPARTMENT.
13. FOR PRIVATE DEVELOPMENTS, AUD SHALL NOT BE RESPONSIBLE FOR PAYMENT PATCHING AND/OR REPLACEMENT AND THE SITE RESTORATION WHENEVER AUD PERFORMS REPAIR, REPLACEMENT OR INSTALLATION WORK.
14. IF AUD MAKES REPAIRS OR REPLACEMENTS TO UTILITIES ON THE PROPERTY, THEN THE DEVELOPER SHALL ARRANGE FOR ACCESS BY AUD AS REQUIRED TO REPAIR OR REPLACE UTILITY.
15. A MINIMUM 15' UTILITY EASEMENT CENTERED OVER ALL WATER LINES AND A MINIMUM 20' UTILITY EASEMENT CENTERED OVER ALL WASTEWATER LINES SHALL BE DEED TO AUGUSTA, GEORGIA AT COMPLETION AND ACCEPTANCE OF SAID LINES. EASEMENTS SHALL NOT BE NOTED ON THE RECORDS OF THE STATE RIGHT-OF-WAY DEPARTMENT. THE EASEMENTS SHALL BE DEED AS LISTED IN AWD's WATER & SANITARY SEWER SYSTEMS-DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND DETAILS.
16. A RIGHT-OF-WAY ENCROACHMENT PERMIT SHALL BE OBTAINED FROM THE PUBLIC WORKS DEPARTMENT PRIOR TO COMMENCING ANY WORK WITHIN AN AUGUSTA, GEORGIA RIGHT-OF-WAY. "A GEORGIA DOT RIGHT-OF-WAY ENCROACHMENT PERMIT MAY BE REQUIRED FOR THE CONSTRUCTION OF ANY STRUCTURE OR ERECTION OF ANY SIGN OR SIGNAGE WITHIN THE RIGHT-OF-WAY. A PERMIT IS REQUIRED. THE UTILITIES ENCROACHMENT PERMIT MUST BE APPLIED FOR THROUGH AUGUSTA UTILITIES DEPARTMENT. CONDITIONS OF THE PERMIT MUST BE COMPLIED WITH FULLY. THE PERMIT MUST BE IN HAND A MINIMUM 24 HOURS NOTICE GIVEN TO THE CITY ENGINEER PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WITHIN THE RIGHT-OF-WAY."
17. THE CONTRACTOR AND UTILITY DEPARTMENT REPRESENTATIVE SHALL HAVE A COPY OF THE AUGUSTA-RICHMOND, 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.
18. THE CONTRACTOR SHALL MEET AND ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, ALSO, A TRAFFIC CONTROL/DETOUR PLAN SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL AS NOTED IN THE AUGUSTA-RICHMOND COUNTY, GEORGIA-RIGHTS OF WAY ENCROACHMENT GUIDELINES.
19. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 18" THICK COMPACTED TYPE F ASPHALT AS SPECIFIED IN THE AUGUSTA-RICHMOND COUNTY, GEORGIA-RIGHTS OF WAY ENCROACHMENT GUIDELINES.
20. CLEARING AND GRUBBING SHALL BE AT THE CONTRACTOR'S DISCRETION, SUBJECT TO AUD APPROVAL, TO FACILITATE CONSTRUCTION.
21. THE APPLICATION OF BEST MANAGEMENT PRACTICES (BMP'S) FOR EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL (BMP'S) SHALL BE INSTALLED AND MAINTAINED AT ALL TIMES.

AUD WATER NOTES:

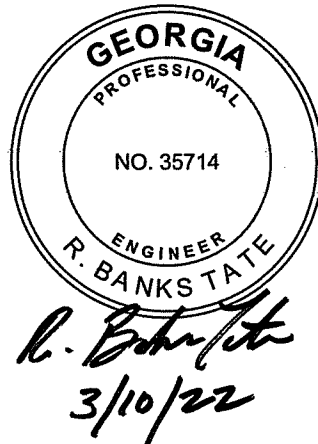
1. AN AUD INSPECTOR SHALL BE PRESENT WHEN A TAP OR TIE-IN OCCURS.
2. ALL PVC WATER LINES SHALL BE OR-18 PVC MEETING AWWA C-900 AND/OR C-905, UNLESS OTHERWISE SHOWN OR SPECIFIED.
3. ALL DIP WATER LINES SHALL BE CLASS 350 FOR LINES 16" DIAMETER AND SMALLER, AND CLASS 300 FOR LINES 18" DIAMETER AND LARGER.
4. ALL WATER LINES SHALL BE TESTED, CHLORINATED, AND CHECKED FOR BACTERIA PER AUD'S WATER & SANITARY SEWER SYSTEMS-DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND DETAILS.
5. COPPER WIRE (12-GAUGE, INSULATED, SINGLE STRAND) SHALL BE ATTACHED ALONG TOP OF ALL BURED PVC WATER LINES, WITH A 3/4" MINIMUM OVERLAP AND MUST BE TIED UP ON THE INSIDE OF ALL VALVE BOXES, RUBBING 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 DETAIL 1.1 WHEN APPLICABLE)
6. ALL VALVE BOXES SHALL BE CAST IRON OR STEEL, AND SHALL BE BROUGHT TO THE SURFACE OF THE GROUND PER DETAIL 4.3.
7. ALL WATER VALVES ON THE MAIN LINES INCLUDING HYDRANT LATERALS, SHALL BE OPEN-LEFT IF INSTALLED SOUTH OF GORDON HIGHWAY (SR. 10), OR OPEN RIGHT IF INSTALLED NORTH OF GORDON HIGHWAY.
8. ALL VALVE BOXES SHALL BE LOCATED AT THE TERMINATION POINT OF ALL WATER SERVICES.
9. METER BOXES WILL IN NO WAY BE PLACED UNDER DRIVEWAYS. METER BOXES WILL PREFERABLY BE LOCATED IN THE CENTER OF THE LOT AND WITHIN THE R/W, AND MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME THE METER IS INSTALLED.
10. WATER SERVICES SHALL HAVE A MINIMUM DIAMETER OF 1 INCH.
11. ALL VALVE LINES WITHIN THE LOT SHALL BE RELOCATED AND METER BOXES RELOCATED AS REQUIRED BEYOND THE LIMITS OF CONSTRUCTION. THE SERVICES SHALL BE CONNECTED TO THE NEW WATER MAIN AFTER SAID MAIN HAD 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.
12. ALL WATER METERS SHALL BE PURCHASED FROM AUD.
13. THE DEVELOPER/CONTRACTOR SHALL LOCATE WATER SERVICES AND VALVES BY ETCHING A "W" FOR THE WATER SERVICE AND A "V" FOR THE VALVE ON THE LOT. IN THE EVENT THAT 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.
14. ALL FIRE HYDRANTS SHALL REQUIRE A SECURITY CHECK VALVE TO BE LOCATED AT THE SHOE OF THE HYDRANT AT THE TIME OF INSTALLATION.
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: 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.
18. PER AUD'S WATER & SANITARY SEWER SYSTEMS-DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND DETAILS: FIRE LINES REQUIRE A "DOUBLE DETECTOR" BACKFLOW DEVICE.
19. PER AUD'S WATER & SANITARY SEWER SYSTEMS-DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND DETAILS: FOR BACKFLOW INSTALLATIONS FOR RESIDENTIAL DEVELOPMENTS, A "DUAL-CHECK" BACK FLOW DEVICE SHALL BE INSTALLED ON THE CUSTOMER'S SIDE OF ALL SERVICES.
20. PER AUD'S WATER & SANITARY SEWER SYSTEMS-DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND DETAILS: (706) FOR HIGH HAZARD LOCATIONS, A REDUCED PRESSURE ZONE (RPZ) BACKFLOW DEVICE WILL BE REQUIRED.
21. A WRITTEN REQUEST SHALL BE SUBMITTED TO AUD FOR THE REQUIRED BACKFLOW PREVENTION DEVICE FOR A SPECIFIC SITE.
22. BACKFLOW DEVICES SHALL BE TESTED BY A CERTIFIED PERSON WITHIN FIVE (5) WORKING DAYS OF INSTALLATION AND THE RESULTS FURNISHED TO THE AUD SYSTEM PROTECTION MANAGER WITHIN 10 WORKING DAYS OF INSTALLATION PRIOR TO ANY WATER UTILITY SERVICE.
23. BACKFLOW SHALL BE NOTIFIED PRIOR TO TESTING CONTACT THE AUGUSTA UTILITIES SYSTEMS PROTECTION MANAGER ARE (706) 312-4195.

AUD SEWER NOTES:

1. THE CONTRACTOR IS TO VERIFY THE INVERT ELEVATIONS (E) OF EXISTING PIPERS PRIOR TO BEGINNING CONSTRUCTION.
2. SEWER FORCE MAIN SHALL BE PVC DR-18 C-900 OR C-908 AS APPLICABLE, OR DIP CLASS 350, EPOXY UNED.
3. IF THE MAIN IS PVC OR HDPE, THEN 12 GAUGE COATED SINGLE STRAND STEEL WIRE SHALL BE ATTACHED ALONG THE TOP OF THE MAIN TO BE USED FOR MANHOLES AND DETECTOR TAPS.
4. DETECTOR TAP SHALL BE 4 INCHES AND PLACED 2 FEET ABOVE PIPE ADD SIMILAR DEVICE TO CONDUIT PER AWD DETAIL 4.3.
5. ALL TIE-INS TO EXISTING MANHOLES SHALL BE CORED.
6. ALL JOINTS SHALL REQUIRE "K" OR "N" SEAL OR ANCHOR BUSHING BOOTS.
7. NO PROPOSED SEWER LINE OR MANHOLE WILL BE APPROVED BY AWD'S ENGINEERING DIVISION UNTIL THE AWD CONSTRUCTION AND MAINTENANCE DIVISION COMPLETES THE REQUIRED CTV INSPECTION REPORT. PER AWD'S WATER & SANITARY SEWER SYSTEMS-DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND DETAILS.
8. NO CONSTRUCTION SHALL BE MADE TO EXISTING WASTEWATER LINES UNTIL THE PROPOSED LINE IS INSPECTED AND APPROVED BY AWD'S ENGINEERING DIVISION.
9. ALL WASTEWATER MANHOLES SHALL HAVE AN ELEVATION DROP OF 0.2 FOOT ACROSS THE INLET AND OUTLET INVERTS.
10. ALL WASTEWATER MANHOLES SHALL BE COVERED BY DECKS AS SHOWN IN AWD-DETAIL 2.8, AND SHALL NOT BE INSTALLED UNDER DRIVEWAYS OR ANY PAVED AREAS WITHOUT PRIOR APPROVAL FROM AWD.
11. SERVICE LINES TO SANITARY SEWER MAIN SHALL BE BEDDED PER THESE AWD SPECIFICATIONS AND AWD DETAIL 2.1.
12. MAXIMUM SANITARY SEWER INFILTRATION SHALL NOT EXCEED 100 GPD/INCH OF PIPE DIAMETER PER MILE.
13. ALL WASTEWATER MANHOLES SHALL BE LOCATED AND IDENTIFIED BY AWD. THE PAVEMENT IF NO CURB IS AVAILABLE, AND HIGHLIGHT THE ETCHING WITH GREEN PAINT PER THE APWA UNIFORM COLOR CODE (APWA, 2000).
14. 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



CRANSTON

[illegible]

North Campus Preliminary Grading

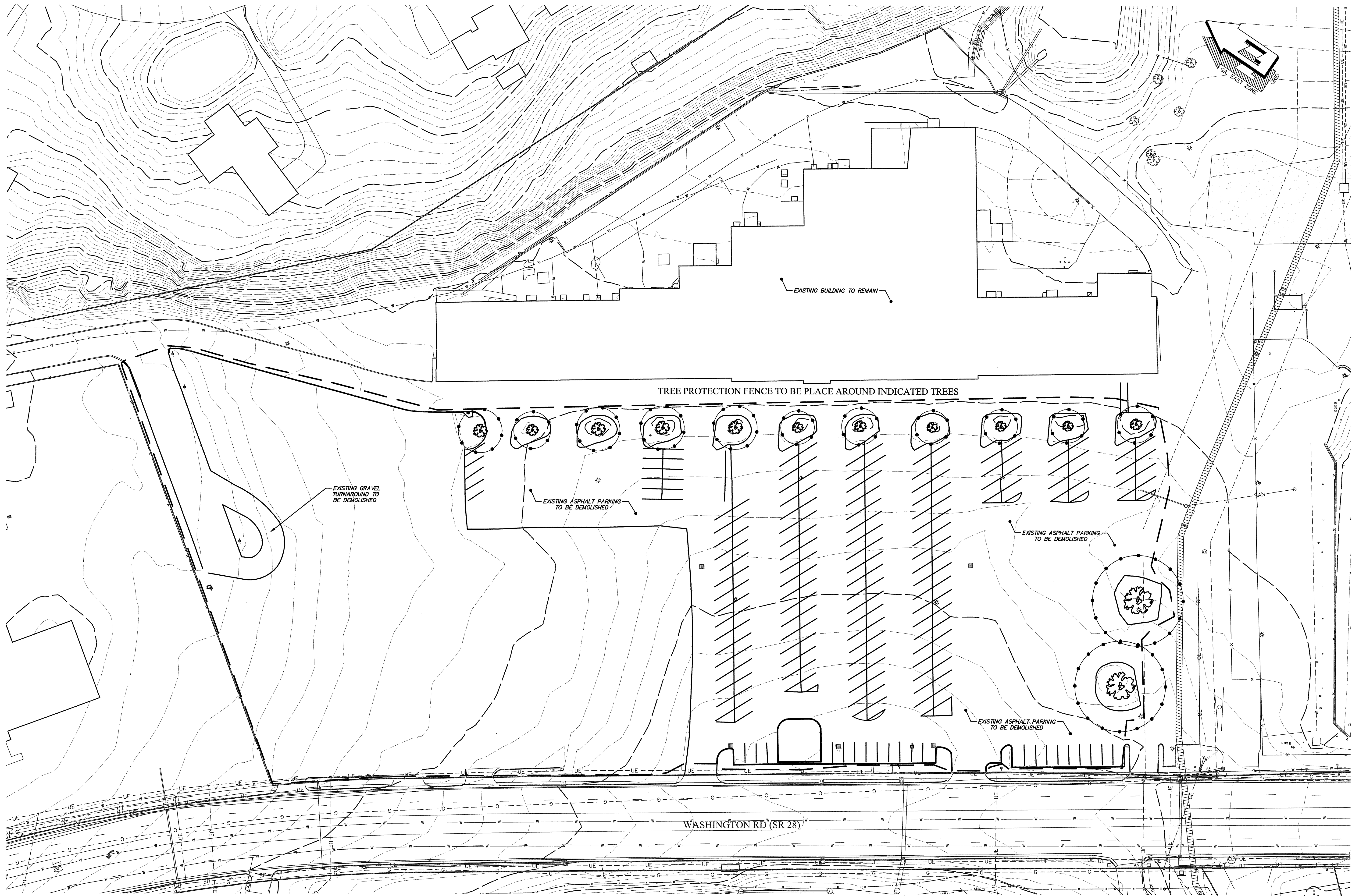
Legend & General Notes

DRAWN BY:	MAB
CHECKED BY:	----
APPROVED BY:	RBT
DATE:	March 1, 2022
SCALE:	NO SCALE
JOB No.	2021-0766
DRAWING No.	

C101



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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. 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.
10. 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.

PLAN
HORIZONTAL SCALE 1"=40'

40 20 0 40 80
SCALE IN FEET

LEGEND

● TREE PROTECTION FENCE

GSWCC Georgia Soil and Water Conservation Commission
Robert Banks Tate
Level II Certified Design Professional
CERTIFICATION NUMBER 000022948
ISSUED 03/01/2012 EXPIRES 03/01/2023

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

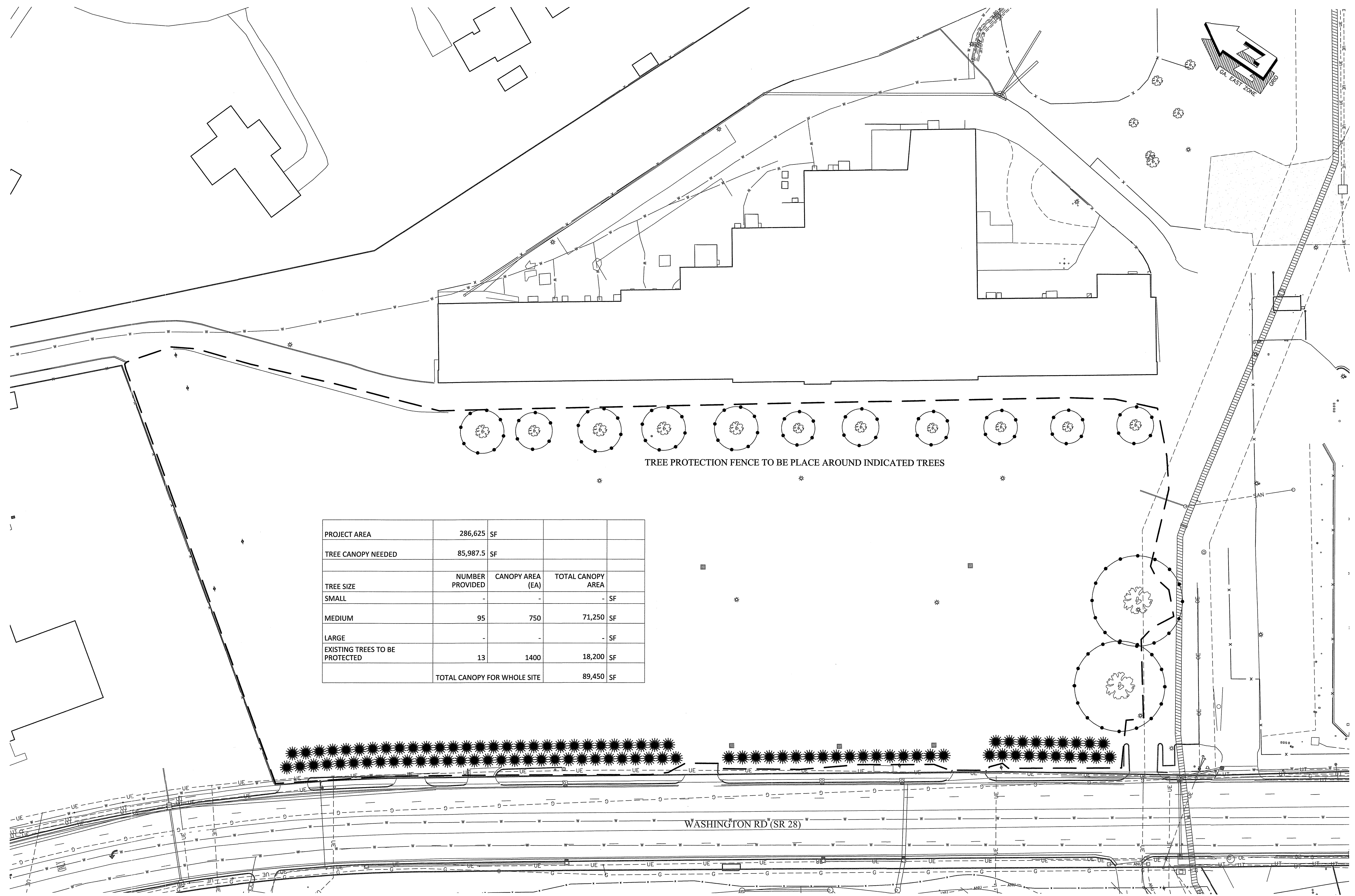
North Campus Preliminary Grading

Existing Conditions &
Demolition Plan

DRAWN BY: BRP
CHECKED BY: ---
APPROVED BY: RBT
DATE: March 1, 2022
SCALE: 1" = 40'
JOB No. 2021-0766
DRAWING No.


C200

CRANSTON
GEORGIA PROFESSIONAL ENGINEER
NO. 35714
H. BANKS TATE
3/10/22



PROJECT AREA	286,625	SF		
TREE CANOPY NEEDED	85,987.5	SF		
TREE SIZE	NUMBER PROVIDED	CANOPY AREA (EA)	TOTAL CANOPY AREA	
SMALL	-	-	-	SF
MEDIUM	95	750	71,250	SF
LARGE	-	-	-	SF
EXISTING TREES TO BE PROTECTED	13	1400	18,200	SF
	TOTAL CANOPY FOR WHOLE SITE		89,450	SF

TREE PROTECTION FENCE TO BE PLACE AROUND INDICATED TREES

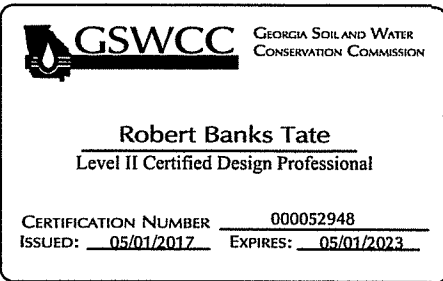
<u>TREE LEGEND</u>		
<u>SYMBOL</u>	<u>COMMON NAME</u>	<u>QUANTITY</u>
	HOLLY	95

PLAN
HORIZONTAL SCALE 1"=40'



LEGEND

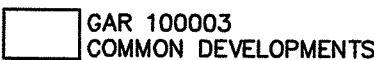
—●— TREE PROTECTION FENCE



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GSWCC AND NPDES NOTES:

PROJECT NAME: NORTH CAMPUS PRELIMINARY GRADING
ADDRESS: 2604 WASHINGTON RD
CITY/COUNTY: AUGUSTA/AUGUSTA-RICHMOND ZIP CODE 30904
DATE ON PLANS: MARCH 1, 2022



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: ROBERT BANKS TATE NO#. 000052948 EXP. DATE: 03/01/2023

3. LIMITS OF DISTURBANCE IS LESS THAN 50 ACRES.

4. 24 HOUR CONTACT: JEFF SMITH
706-829-9368
24 HOUR CONTACT EMAIL

5. PRIMARY PERMITTEE: ANI
2604 WASHINGTON RD
AUGUSTA GA, 30904
706-867-6301
CLIENT EMAIL

6. TOTAL DISTURBED ACREAGE OF THIS PROJECT: 6.58 ACRES
TOTAL PROJECT ACREAGE: 6.58 ACRES

7. CONSTRUCTION EXIT: 33.503044
82.014836

8. THE INITIAL DATE ON PLANS IS MARCH 1, 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:DEMOLITION OF EXISTING PARKING LOT AND CREATION OF BORROW PIT FOR NORTH CAMPUS CONSTRUCTION.

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: ROBERT BANKS TATE NO#. 000052948 EXP. DATE: 03/01/2023

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

LEVEL II CERTIFICATION: NAME: ROBERT BANKS TATE NO#. 000052948 EXP. DATE: 03/01/2023

14. THE DESIGN PROFESSIONAL WHO PREPARED THE ESAPC 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 PROPERLY MAINTAINED 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.

17. THE PRIMARY PERMITTEE(S) SHALL AMEND THEIR PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT OR IF THE PLAN PROVES TO BE INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM SOURCES IDENTIFIED UNDER PART IV.D.3 AMENDMENTS TO THE PLAN MUST BE CERTIFIED BY A DESIGN PROFESSIONAL AS PROVIDED IN THIS PERMIT.

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 UNDERSTANDING 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 C405.

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 WATER, AND FEDERAL REGULATIONS.

FOR SPILLS THAT CONTACT SURFACE WATER (E.G. 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 SPILLS 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 AND ABOVE THE RATES 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 C401 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 A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, 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); (c) 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 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 AN 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.(c)(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 RESULTS 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.(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. SUCH 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.6.4.)

(1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT EXCEEDING 0.5 INCHES OF RAINFALL. THE PRIMARY 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 INCHES OF RAINFALL OR GREATER DURING NORMAL BUSINESS HOURS (WEDNESDAY 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 CLEANING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED FOR 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 INCHES AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS * THAT OCCURS EITHER 30-DAYS AFTER THE FIRST RAINFALL EVENT OR AFTER ALL GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED FOR 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 AFTER 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; (d) WHERE SAMPLING PURSUANT TO (a), (b) OR (c) ABOVE IS REQUIRED BUT IS NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.(g), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (a), (b), OR (c) ABOVE; AND (e) EXCEPT FOR CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (a) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (b), THOSE

EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (b) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (c) ABOVE. NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (a) AND (b) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY 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.)

(1). THE APPLICABLE PERMITTEE'S ARE REQUIRED TO SUBMIT A THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART I.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD (E.G., MONTHS). DURING THE MONTHS, SAMPLING 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 TO THE EPD 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.

(2). ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

a. THE RAINFALL AMOUNT, DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS;

b. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;

c. THE DATE(S) ANALYSES WERE PERFORMED;

d. THE TIME(S) ANALYSES WERE INITIATED;

e. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;

f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;

g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;

h. RESULTS WHICH WOULD BE REQUIRED 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.

i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN;

l. 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 ADDRESS A OF THE PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE. 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.

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.g. OF THIS PERMIT;

(f). A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART I.D.2. OF THIS PERMIT; AND,

(g). DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.g.(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 RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THE NPDES PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE UNTIL THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLING 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 ALTERNATE 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:

SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING: (NPDES GENERAL PERMIT NO.100001, SEC. IV.D.6.a.)

(1). USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24,000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (a) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION; (b) THE LOCATION OF THE STORMWATER IS DISCHARGED AND (c) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP FORM WHERE THE STORMWATER(S) ENTERS THE RECEIVING WATER(S) (I.E., THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP), THE PERMITTEE SHALL:

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

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

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

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 135 OR PART 136 (WHICHEVER HAS BEEN MOST RECENTLY APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001", AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

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

(2). SAMPLE SHOULD BE COLLECTED BY THE USE OF A SECONDARY CONTAINER.

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

(4). MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE TAKEN IMMEDIATELY AFTER THE END OF THE STORMWATER DISCHARGE. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLING DEVICES ARE UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLING DEVICES MUST BE CALIBRATED WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.

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

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

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

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

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

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

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

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

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

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

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

34. "APPENDIX B" RATIONALE FOR OUTFALL SAMPLING POINTS:

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

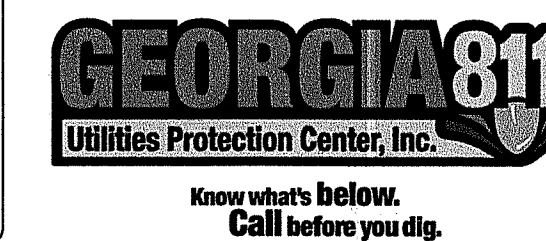
WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OF THE OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE INCLUDED FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE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

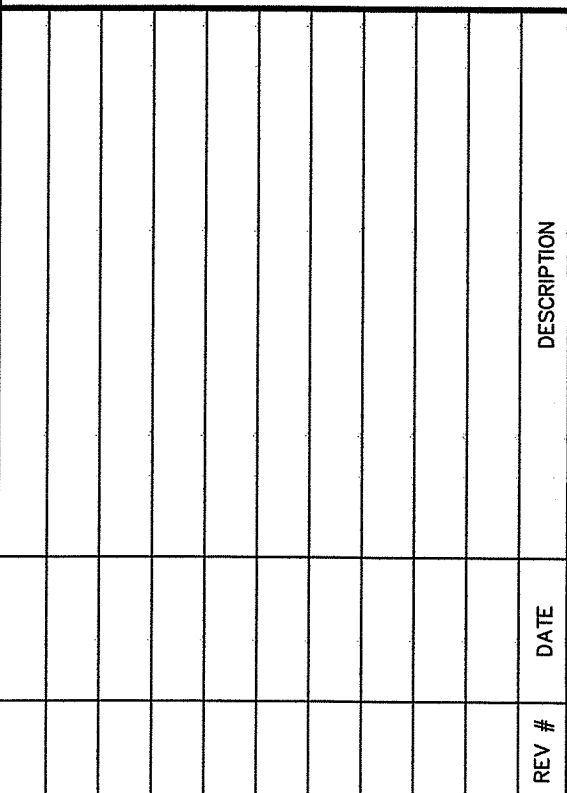
STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION(S). A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES (BMPs) HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY 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 75 IS BASED UPON THE CONSTRUCTION SITE ACREAGE OF 6.58 ACRES FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA APPROXIMATELY 0.01 SQUARE MILES. FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA APPROXIMATELY 0.01 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 C401.

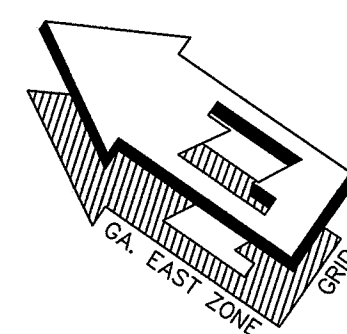
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Intermediate Erosion Control Plan

C403



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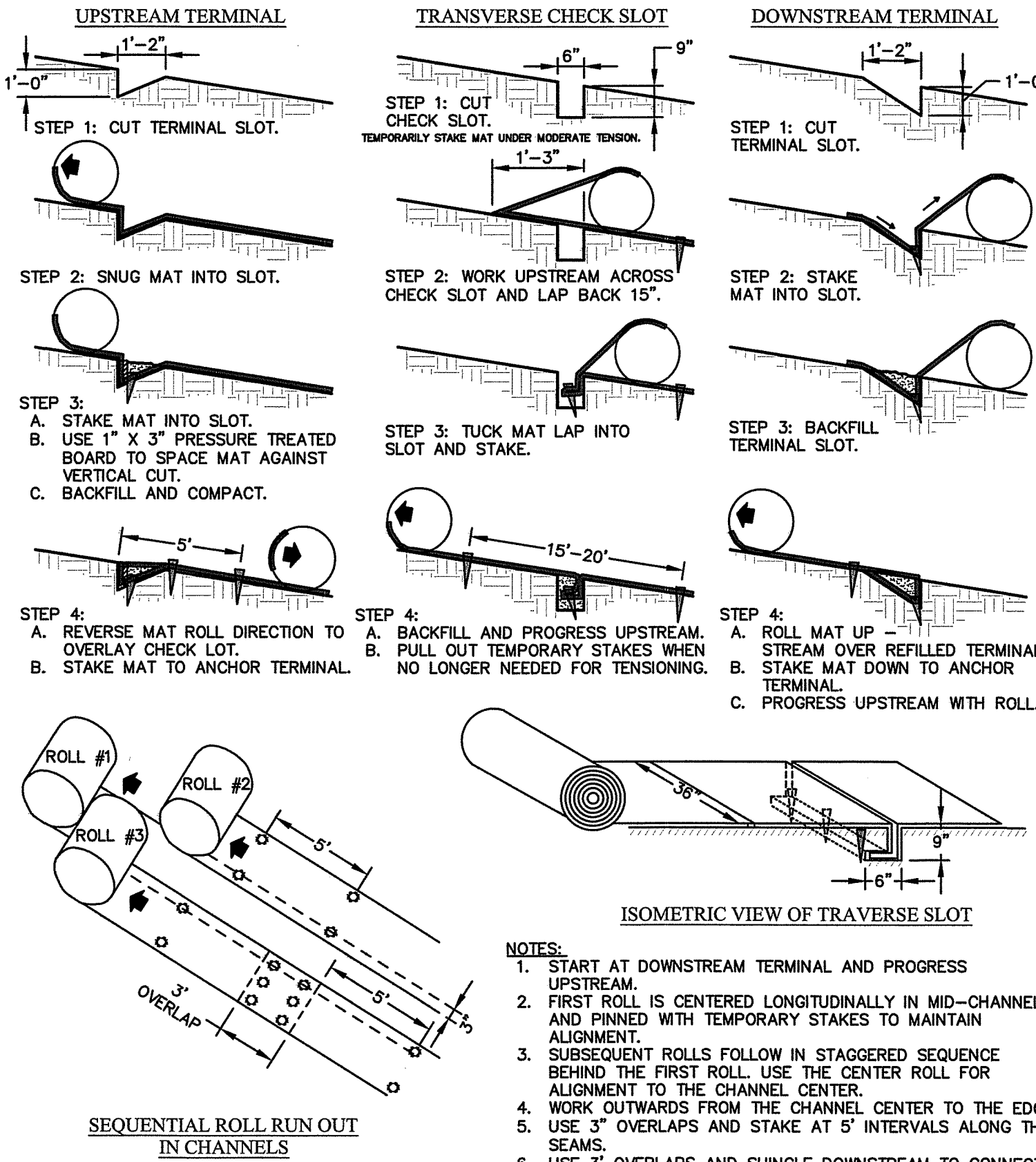
STRUCTURAL PRACTICES

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.
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.
Tr	TREE PROTECTION			TO PROTECT DESIRABLE TREES FROM INJURY DURING CONSTRUCTION ACTIVITY.

VEGETATIVE PRACTICES

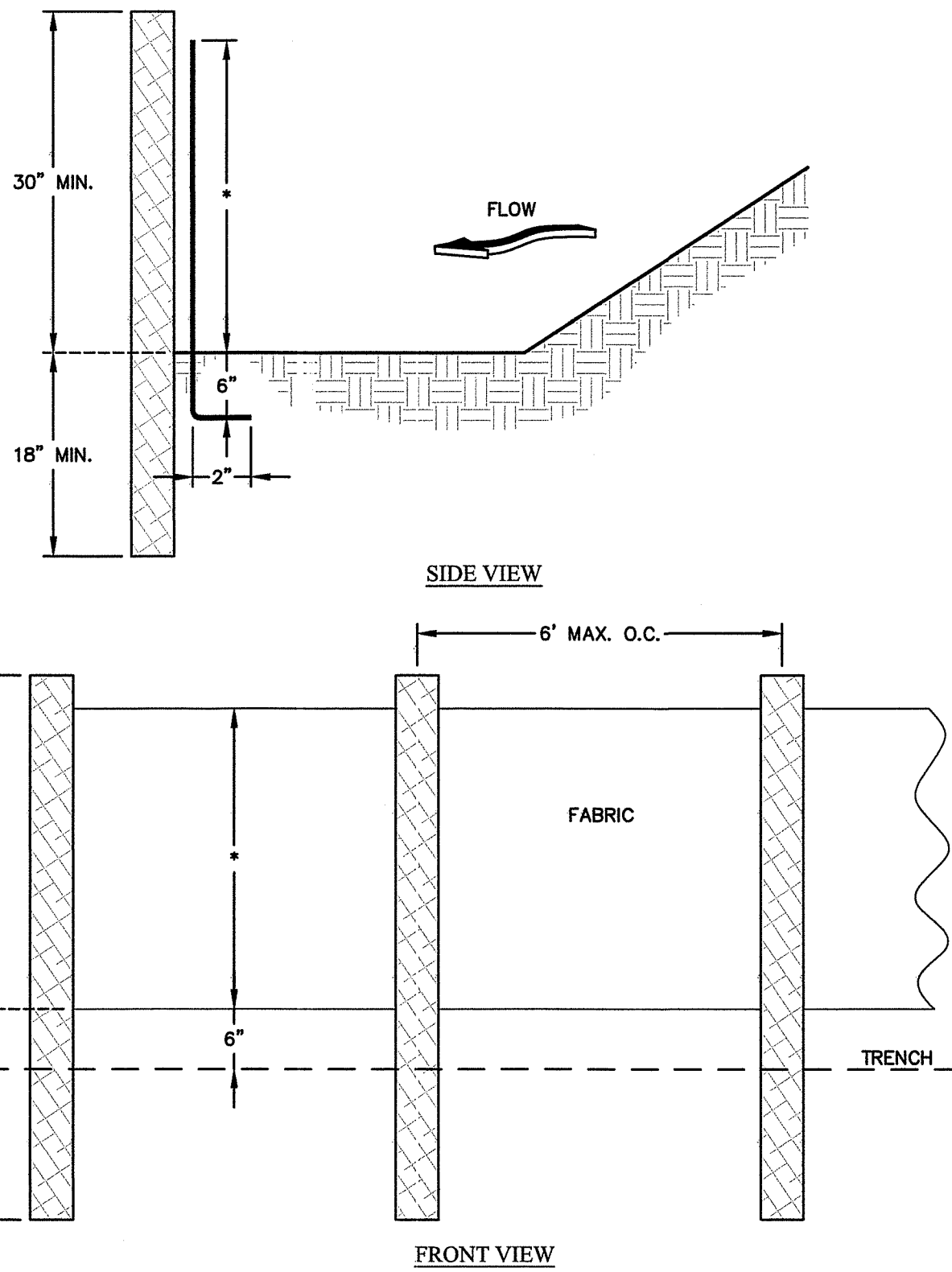
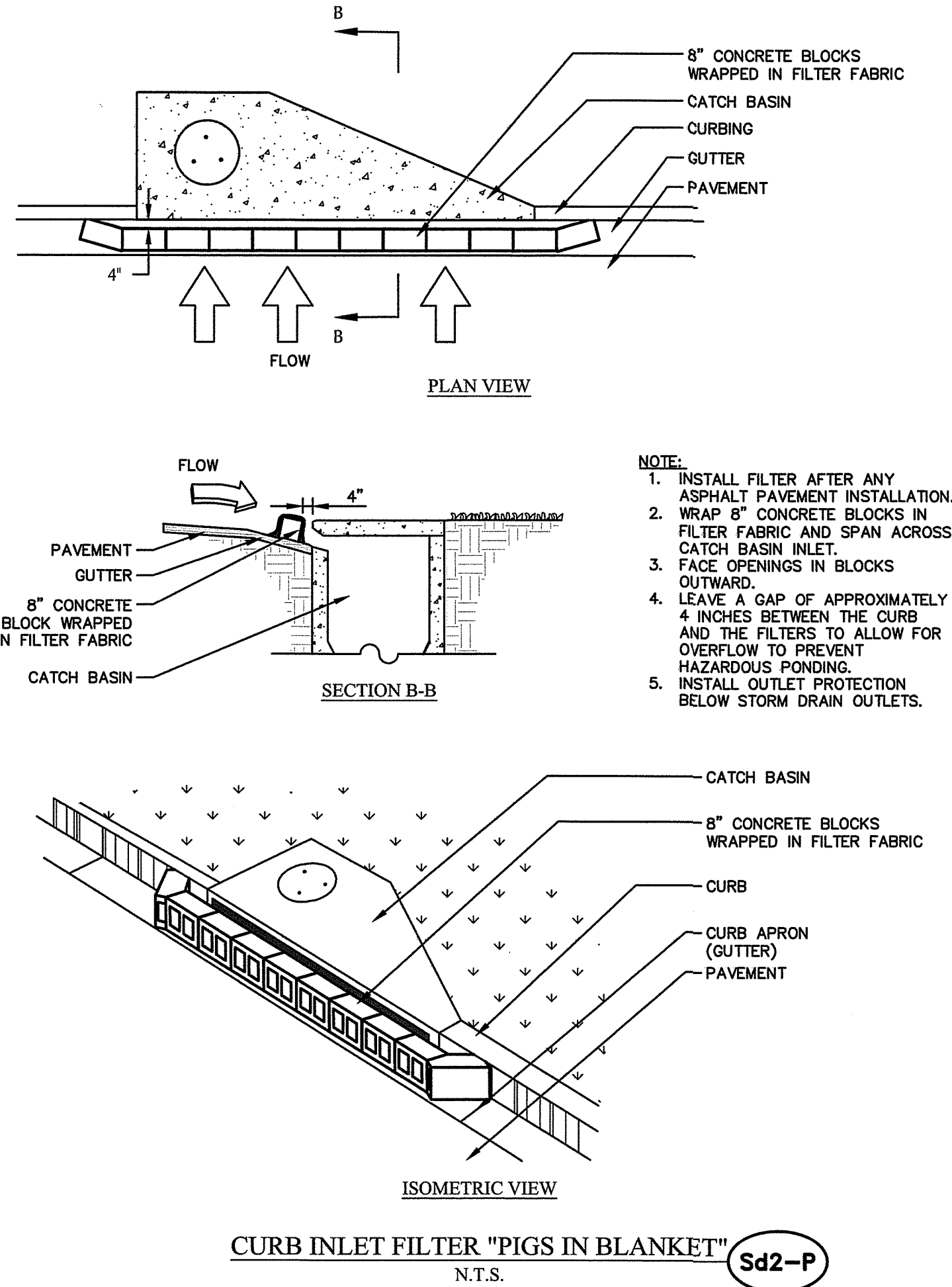
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE EROSION RETARDING COVER.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)			ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
Du	DUST CONTROL ON DISTURBED AREAS			CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE, ROADWAYS AND SIMILAR SITES.
Ss	SLOPE STABILIZATION			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

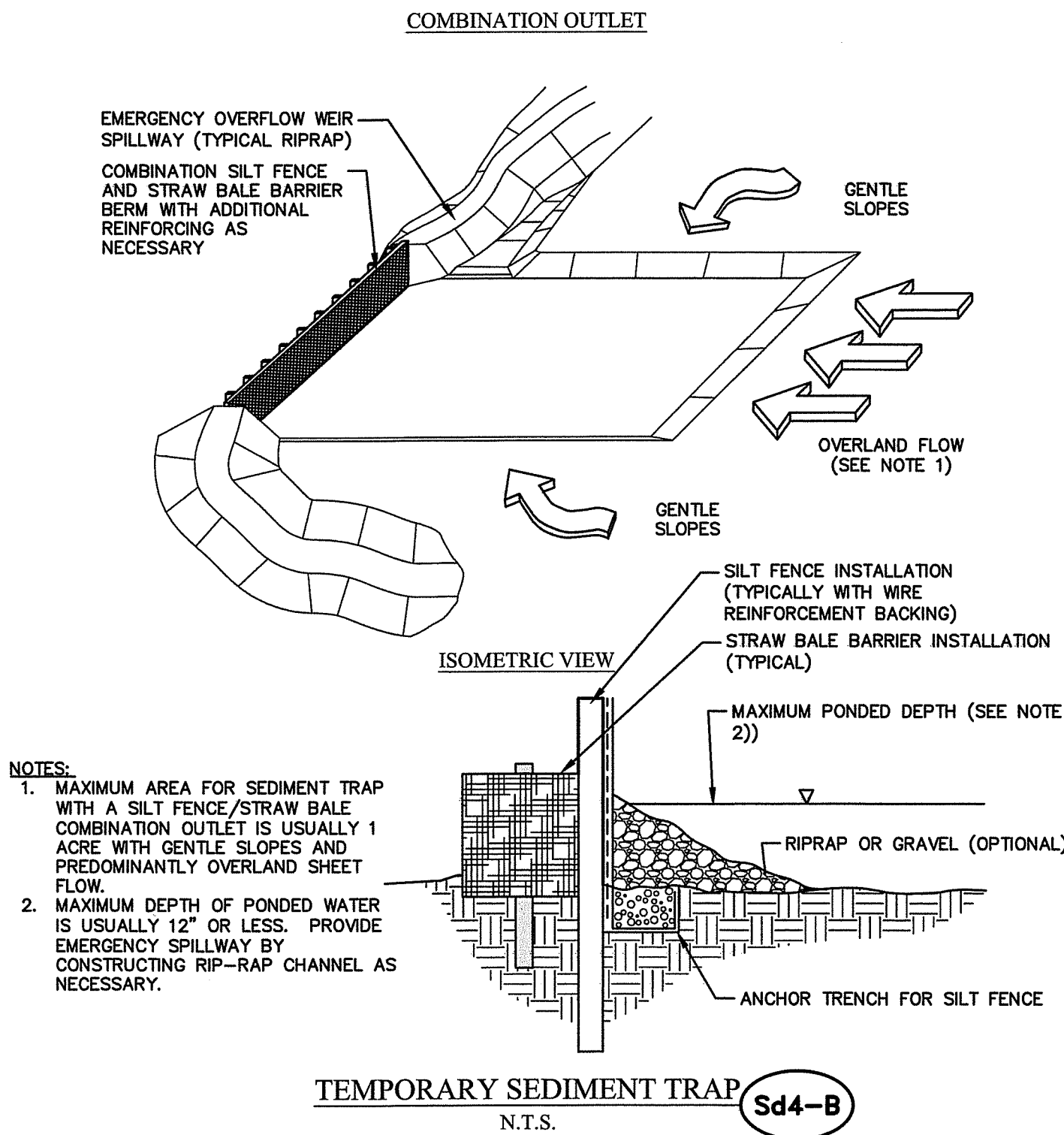


TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

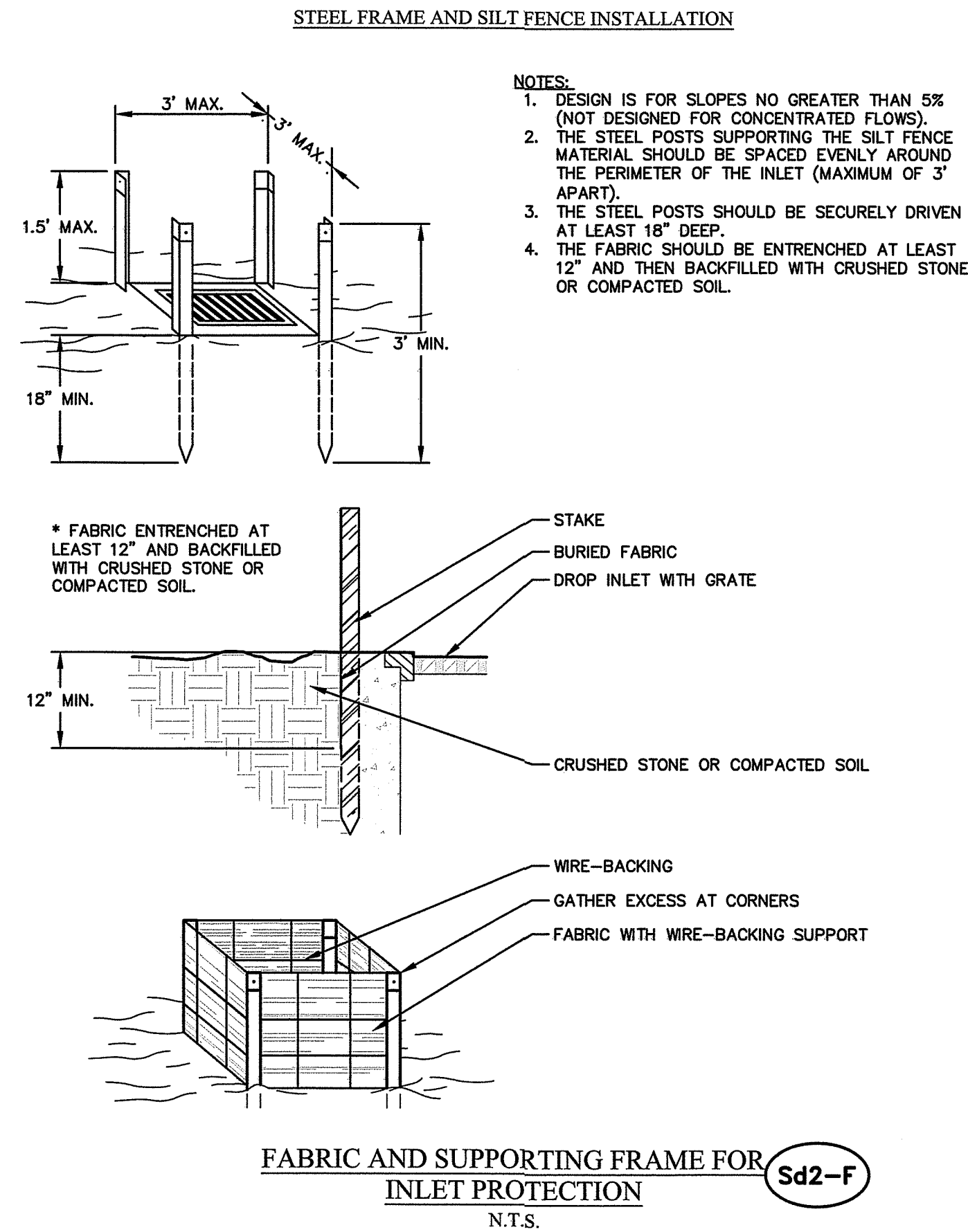
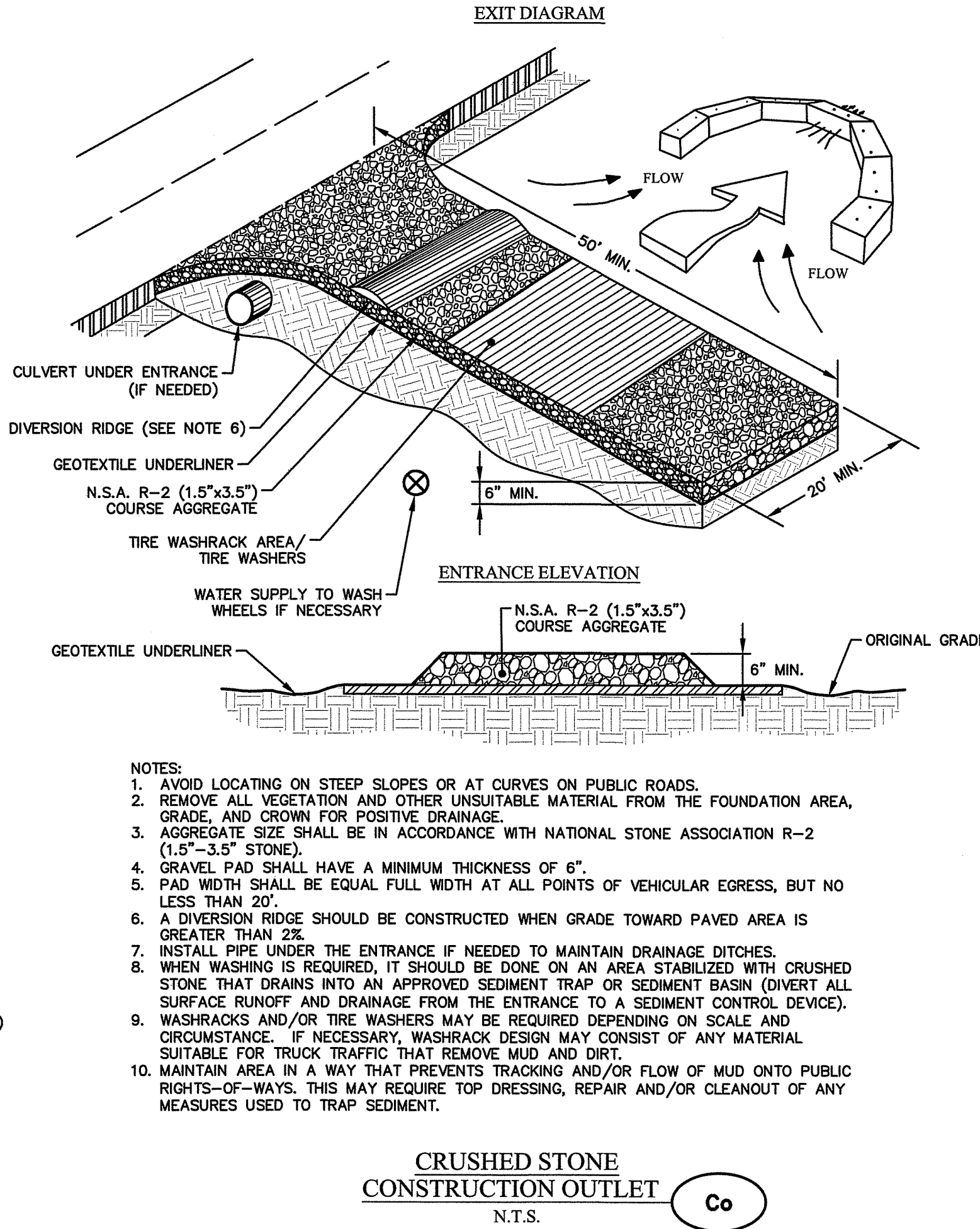
SLOPE STABILIZATION Ss



SILT FENCE - TYPE A Sd1-NS



TEMPORARY SEDIMENT TRAP Sd4-B



Robert Banks Tate
Level II Certified Design Professional
CERTIFICATION NUMBER 00002948
ISSUED: 05/01/2012 EXPIRES: 05/01/2023

North Campus Preliminary Grading

Erosion Control Details

DRAWN BY: BRP
CHECKED BY: ---
APPROVED BY: RBT
DATE: March 1, 2022
SCALE: AS SHOWN
JOB No. 2021-0766
DRAWING No.

C405

GEORGIA PROFESSIONAL ENGINEER
NO. 35714
R. BANKS TATE
3/10/22

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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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 RECOMMENDATIONS	

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 Tdc - 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 Tdc - 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

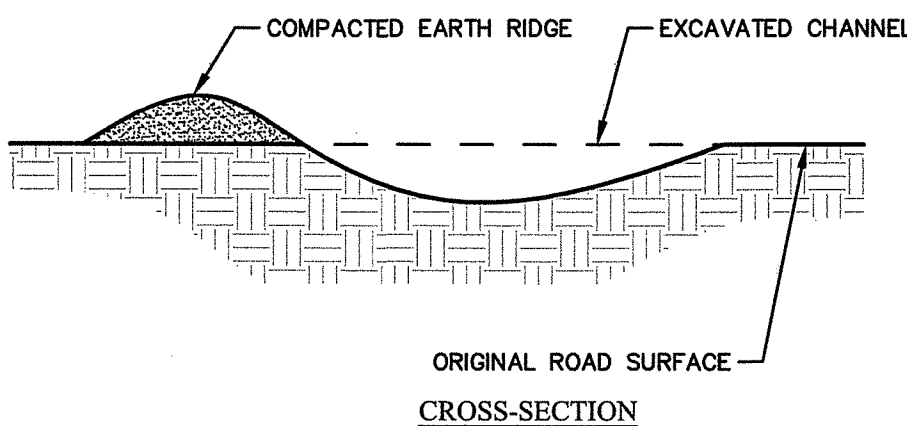
SEE SPECIFICATION Tp - TOP SOILING

MAINTENANCE

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

DUST CONTROL ON DISTURBED AREAS

Du



TYPICAL DIVERSION ACROSS ROAD

N.T.S.

Di

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	3.30 LBS	0 BU	9/1-10/31	9/15-11/15	10/1-12/31
BARLEY, IN MIXTURES	0.60 LBS	0.5 BU			
LESPEDEZA, ANNUAL	0.90 LBS	40 LBS	3/1-3/31	3/1-3/31	2/1-2/28
LESPEDEZA, IN MIXTURES	0.20 LBS	10 LBS			
LOVEGRASS, ALONE	0.10 LBS	4 LBS	4/1-5/31	4/1-5/31	3/1-5/31
LOVEGRASS, IN MIXTURES	0.05 LBS	2 LBS			
MILLET, IN BROWNTOP	0.90 LBS	40 LBS	4/15-6/15	4/15-6/30	4/15-6/30
MILLET, IN MIXTURES	0.20 LBS	10 LBS			
MILLET, PEARL	1.10 LBS	50 LBS	5/15-7/15	5/1-7/31	4/15-8/15
OATS, ALONE	2.99 LBS	4 LBS	9/15-11/15	9/15-11/15	9/15-11/15
OATS, IN MIXTURES	0.70 LBS	1.0 LBS			
RYE (GRAIN), ALONE	3.90 LBS	3 BU	8/15-10/31	9/1-11/30	10/1-12/31
RYE, IN MIXTURES	0.60 LBS	0.5 BU			
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	3.30 LBS	3 BU	N/A	N/A	10/15-11/30
TRITICALE, IN MIXTURES	0.60 LBS	0.5 BU			
WHEAT, ALONE	4.10 LBS	3 BU	9/15-11/30	10/1-12/15	10/15-12/31
WHEAT, IN MIXTURES	0.70 LBS	0.5 BU			

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

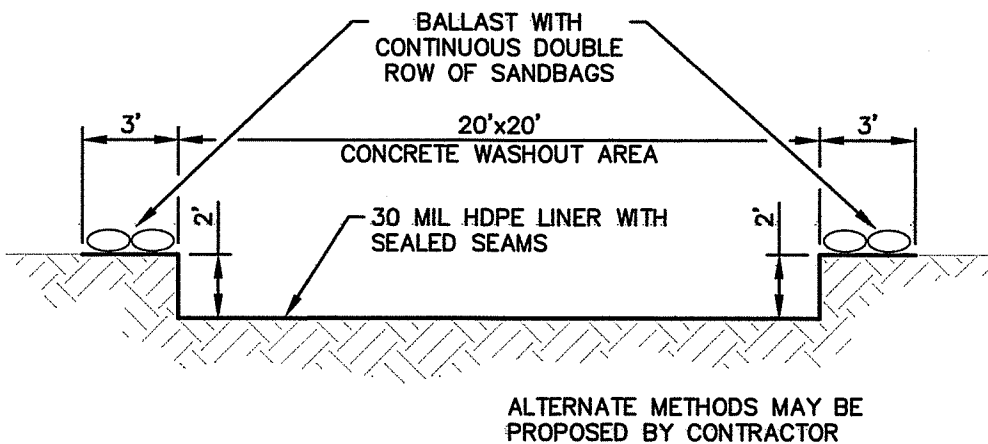
TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS/ACRE)	N TOP DRESSING RATES (LBS/ACRE)
COOL SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	1000	----
	MAINTENANCE	10-10-10	400	30
COOL SEASON GRASSES & LEGUMES	FIRST	6-12-12	1500	50-100
	SECOND	10-10-10	1000	----
	MAINTENANCE	10-10-10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



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

N.T.S.

Cw

PROJECT NUMBER: 2021-0766

PROJECT NAME: ANGC - NORTH CAMPUS BORROW EXCAVATION

DATE: 2/28/2022

GEORGIA TEMPORARY SEDIMENT TRAP	
SEDIMENT TRAP NUMBER:	TEMPORARY SEDIMENT TRAP 1
DRAINAGE BASIN	
SURFACE AREA OF TRAP (SF):	9448.14
STORAGE REQUIRED (SF):	138764.88
STORAGE REQUIRED (AC):	3.19
DISTURBANCE TYPE:	LIGHT
REQUIRED TRAP SIZE (CY/AC):	67
REQUIRED STORAGE (CF):	5762.76
SUPPLIED STORAGE (CF):	11337.77
SEDIMENT TRAP SIZING	
SEDIMENT TRAP HEIGHT (FT):	3
EMBANKMENT HEIGHT (FT):	4.5
WIDTH OF EMBANKMENT (FT):	4.5
REQUIRED SURFACE AREA (SQFT):	4802.30
LENGTH TO WIDTH RATIO:	2:01
EMBANKMENT SLOPE:	3:01
TRAP LENGTH:	106
TRAP WIDTH:	53
REQUIRED CLEAN OUT HEIGHT (FT):	1.00
DESIGN CHECKS	
STORAGE:	PASSED
DRAINAGE BASIN SIZE	PASSED
DEPTH CHECK:	PASSED
WIDTH CHECK:	PASSED

RANGE FROM 67-134 CY/AC

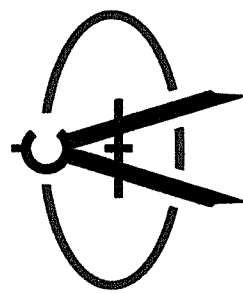
MAXIMUM DEPTH OF 4 FEET

MAXIMUM DEPTH OF 5.5 FEET

MINIMUM WIDTH OF 3 FEET

MINIMUM OF 2:1

MINIMUM OF 3:1



CRANSTON



R. Banks Tate
3/10/22

North Campus Preliminary Grading

Erosion Control Details

DRAWN BY:

BRP

CHECKED BY:

APPROVED BY:

RBT

DATE:

March 1, 2022

SCALE:

AS SHOWN

JOB No.

2021-0766

DRAWING No.

C406

