

FAYETTE COUNTY BROOM BLVD CULVERT REPLACEMENT PROJECT PROJECT NUMBER 6509L



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PROJECT LOCATION:

104-121 BROOM BLVD
FAYETTEVILLE, GA 30215

CLIENT INFORMATION:

FAYETTE COUNTY
140 STONEWALL AVE W, STE 203
FAYETTEVILLE, GA 30214

Tt PROJECT No.:

200-01297-17020

CLIENT PROJECT No.:

6509L

PROJECT DESCRIPTION / NOTES:

REFERENCE DATUM: NAD83 GEORGIA STATE PLANE, WEST ZONE, US FOOT

ISSUED:

ISSUED FOR CONSTRUCTION - 04/27/2018

VICINITY MAP:



SCALE: NTS



GSWCC LEVEL II
CERT. # 0000073529

LIST OF STANDARD ABBREVIATIONS

A AAP AARV AAV AB ABAN ABRSV ABS ABV AC ACOMP ACP ADDM ADH AFF AFG AFS AFH AL ALT AMP AMT APRX ARCH AS ASPH ASSY AVE A/C A/VV B BAF BCV BFV BHP BI BITUM B/L BLDG BLK BM BOC BOT BP BRG BSK BV BW BWW C CAP CA CAV CB CCC CE CFM CFS CV CI CIP CISP CJ CKT CL CL2 CLF CLR CLVT CMP CMPA CMU CND CNR CO CO2 COAG COL COM CONC CONN CONSTR CONT CONTR COORD CO CP CPA CPLG CPVC CR CS CSG CTV CY CYL C&G C/C D DAT DBL DC DEMO DEPT DESC DET DF DI DIA DIFF DIM DIP DISCH DIR DMH DN DR DV DWG DWV	ALARM ANNUNCIATOR PANEL AUTOMATIC AIR RELEASE AUTOMATIC AIR VENT ABANDON(ED) ABRASIVE ACRYLONITRILE BUTADIENE STYRENE ABOVE ALTERNATING CURRENT ASPHALT-COATED CORRUGATED METAL PIPE ASBESTOS CEMENT PIPE ADDENDUM ADHESIVE ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ABOVE FINISHED SLAB AHEAD ALUMINUM ALTERNATE AMPERE AMOUNT APPROXIMATE(LY) ARCHITECT(URAL) ALUM SOLUTION ASPHALT ASSEMBLY AVENUE AIR CONDITIONING AIR/VACUUM AIR VALVE BAFFLE BALL CHECK VALVE BLIND FLANGE BUTTERFLY VALVE BRAKE HORSEPOWER BLACK IRON BITUMINOUS OR BITUMASTIC BASELINE BUILDING BLOCK BENCH MARK BACK OF CURB BOTTOM BASE PLATE BEARING BLACK STEEL PIPE BALL VALVE BOTH WAYS BACKWASH WATER CAPACITY COMPRESSED AIR COMBINATION AIR VALVE CATCH BASIN CHLORINE CONTACT CHAMBER CHLORINATED EFFLUENT CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHECK VALVE CAST IRON CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTER LINE CHLORINE GAS CHAIN LINK FENCE CLEAR OR CLEARANCE CULVERT CORRUGATED METAL PIPE CORRUGATED METAL PIPE ARCH CONCRETE MASONRY UNIT CONDUIT CORNER CLEAN OUT CARBON DIOXIDE COAGULANT COLUMN COMMON CONCRETE CONNECTION CONSTRUCT(ION) CONTINUOUS CONTRACT(OR) COORDINATE COMPANY CONCRETE PIPE CONCRETE PIPE ARCH COUPLING CHLORINATED POLYVINYL CHLORIDE CONCENTRIC REDUCER CHLORINE SOLUTION CASING CABLE TELEVISION CUBIC YARD CYLINDER CURB AND GUTTER CENTER TO CENTER DATUM DOUBLE DIRECT CURRENT DEMOLITION DEPARTMENT DESCRIPTION DETAIL DIESEL FUEL DUCTILE IRON DIAMETER DIFFUSER DIMENSION DUCTILE IRON PIPE DISCHARGE DIRECTION DROP MANHOLE DOWN DRAIN DIAPHRAGM VALVE DRIVEWAY DRAWING DRAIN, WASTE, AND VENT	E EA ECC EF EFF EL ELAST ELEC EMER EMC ENGR EPDM EPRF EQUIP ER ESTM EST EW EXC EXP EXST EXT GR EXT EXTN F FAB FCA FB FCV FD FDN FE FHY FIG FIN FIN FLR FIN GR FL FLG FLM FLTR FM FPM FPS FRP FT FUT FV FW FWP F/F G GA GAL GALV GIP GJ GND GPD GPH GPM GPS GR GRTG GS GSP GSR GST GT GV HB HD HDPE HDR HFA HGR HGT HNDRL HOA HORIZ HP HPA HR HVAC HWL HWY HZ I ID IN INF INT INTR INV IP IPS IR IW J JB JT K K KPL KV KVA KW KWH L LAB LAM LATL LAV	EAST EACH ECCENTRIC EACH FACE EFFLUENT EASEMENT LINE ELEVATION ELASTOMERIC ELECTRICAL EMERGENCY ENCASE(MENT) ENGINEER EDGE OF PAVEMENT ETHYLENE PROPYLENE DIENE MONOMER EXPLOSION PROOF EQUIPMENT ECCENTRIC REDUCER EASEMENT ESTIMATE(D) EACH WAY EXCAVATE EXPANSION EXISTING EXISTING GRADE EXTERIOR EXTENSION FABRICATE(D) FLANGED COUPLING ADAPTER FLAT BAR FLOW-CONTROL VALVE FLOOR DRAIN FOUNDATION FILTER(ED) EFFLUENT FIRE HYDRANT FIGURE FINISHED FINISH FLOOR FINISH GRADE FLUORIDE FLANGE(D) FLOW LINE FILTER FORCE MAIN FEET PER MINUTE FEET PER SECOND FIBERGLASS REINFORCED PLASTIC FOOT OR FEET FUTURE FOOT VALVE FINISHED WATER FACTORY WIRE PANEL FACE TO FACE GAUGE GALLON(S) GALVANIZED GALVANIZED IRON PIPE GROOVE JOINT GROUND GALLONS PER DAY GALLONS PER HOUR GALLONS PER MINUTE GALLONS PER SECOND GRADE GRATING GALVANIZED STEEL GALVANIZED STEEL PIPE GROUND STORAGE RESERVOIR GROUND STORAGE TANK GROUT GATE VALVE HOSE BIBB HEAVY-DUTY HIGH-DENSITY POLYETHYLENE HYDRAULIC HYDROFLUOSILICIC ACID HANGER HEIGHT HAND RAIL HAND-OFF-AUTO HORIZONTAL HORSEPOWER HIGH PRESSURE AIR HOUR HEATING, VENTILATION, AND AIR CONDITIONING HIGH WATER LEVEL HIGHWAY HERTZ INSIDE DIAMETER INCH(ES) INFLUENT INTERSECTION INTERIOR INVERT IRON PIPE INTERNATIONAL PIPE STANDARD INTERNAL RECYCLE IRRIGATION WATER JUNCTION BOX JOINT KIP (1,000 LB) KICK PLATE KILOVOLT KILOVOLT-AMPERE KILOWATT KILOWATT-HOUR LABORATORY LAMINATE OR LAMINATION LATERAL LAVATORY	LENGTH ROUND(S) LINEAR FEET LIGHT POLE LIME SLURRY LIME STABILIZED SLUDGE LOUVER LOW WATER LEVEL M M MAINT MAN MAS MATL MAX MCC ME MECH MEG MFR MG MGD MH MI MIN MISC MJ ML MO MON MPH MPT MS MSP MTD MV MW MWL MWP N N NaOCl NE NE NIC NO NOM NPF NPT NPW NRS NTS NW N/A O O2 OC OD ODP OF OH OHV OPP OPT OR OSY O&M P PA PC PCM PE PG PI PL PNV POB POJ POL PP PPD PPM PREFAB PRESS PRV PRW PSF PSI PSIA PSIG PT PV PVC PVMT PW PWR Q Q QTY R RAD RAS RC RCB RCP RCPA RD RDRCR REBAR REF REINF REM REQ'D RF RJ RM RBPB RPM RAILROAD RIGHT RIVETED RAW WATER RAW WASTEWATER RIGHT-OF-WAY S S SA SAN SCHED SE SD SECT SEFF SF SHT SIG SIM SL SLV SM SOLN SP SPEC SPRT SQ SS SSE SST ST STA STD STK STR STRUCT SURF SV SVCE SVW SW SWD SWSH SYM SYM SOUTH SAMPLE LINE SANITARY SCHEDULE STORM DRAIN SOUTHEAST SECTION SECONDARY EFFLUENT SQUARE FOOT OR FEET SHEET(ED)(ING) SIGNAL SIMILAR SLUDGE SLEEVE SHEET METAL SOLUTION SOIL PIPE, SPACE(ING) SPECIFICATION SUPPORT SQUARE SANITARY SEWER SUBSTANDARD EFFLUENT STAINLESS STEEL STREET STATION STANDARD STAKE STEEL STRAIGHT STRUCTURAL SURFACE SOLENOID VALVE SERVICE SERVICE WATER SOUTHWEST SIDEWATER DEPTH SURFACE WASH SYMBOL SYMMETRICAL SIDEWALK TANGENT TOP OF BEAM TEMPORARY BENCH MARK TEST BORING-xx (e.g. TB-1) TRENCH DRAIN TOTAL TDH TD TOT TEFC TEL TENV THD THREADED THK TLM TOB TOC TOT TOT TP TS TV TYP TSB UNDERDRAIN UNDERGROUND ULTIMATE UNION UNLESS OTHERWISE NOTED UNDERGROUND ELECTRIC UNDERGROUND TELEPHONE CABLE UTILITY VOLT(S) VACUUM VARIES VERTICAL CURVE VITRIFIED CLAY PIPE VELOCITY VERTICAL VARIABLE FREQUENCY DRIVE VOLUME WATT, WEST WASTE ACTIVATED SLUDGE WALL CLEAN OUT WIDE FLANGE WALL HYDRANT WATER LINE WATER MAIN WATER PROOF(ING), WORKING POINT WORKING PRESSURE WATER SURFACE WELDED STEEL PIPE WEIGHT WTP WASH WATER WFW WWM WWTPT W/ W/O X XFER Y YD YH YR YARD(S) YARD HYDRANT YEAR(S) YR
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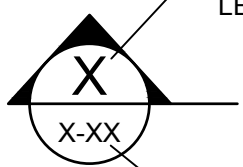

PIPING LEGEND

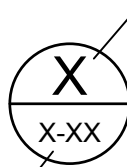
FITTING/ APPURTENANCE	FLANGED				MECHANICAL JOINT				GROOVE JOINT				SOLVENT WELD			
	SINGLE-LINE		DOUBLE-LINE		SINGLE-LINE		DOUBLE-LINE		SINGLE-LINE		DOUBLE-LINE		SINGLE-LINE		DOUBLE-LINE	
	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
BEND																
TEE																
WYE																
REDUCER																
CAP/ BLIND FLANGE					N/A	N/A	N/A	N/A								
PLUG	N/A	N/A	N/A	N/A					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUTTERFLY VALVE																
BALL VALVE					N/A	N/A	N/A	N/A								
CHECK VALVE					N/A	N/A	N/A	N/A								
GATE VALVE																
PLUG VALVE																
AUTOMATIC CONTROL VALVE					N/A	N/A	N/A	N/A								
PINCH VALVE					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				

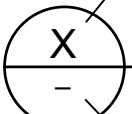
CIVIL LEGEND

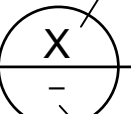
	PROPERTY LINE
	RIGHT OF WAY LINE (R-O-W)
	LIMITS OF CONSTRUCTION
	EASEMENT
	PROPOSED CONTOUR MAJOR
	PROPOSED CONTOUR MINOR (LABEL OPTIONAL)
	WATER
	STORM SEWER
	SANITARY SEWER
	SANITARY SEWER (FORCE MAIN)
	GUARD RAIL
	STEEL FENCE
	WOOD FENCE
	OVERHEAD ELECTRICAL
	XXXXXX
	TOP
	BOTTOM
	WELL
	MANHOLE
	WATER MAIN
	WATER PROOF(ING), WORKING POINT
	WORKING PRESSURE
	WATER SURFACE
	WELDED STEEL PIPE
	WEIGHT
	WATER TREATMENT PLANT
	WASH WATER
	WELDED WIRE FABRIC
	WELDED WIRE MESH
	WASTEWATER TREATMENT PLANT
	WITH
	WITHOUT
	TRANSFER
	YARD
	YARD HYDRANT
	YEAR

REFERENCE SYMBOLS

	DENOTES SECTION LETTER IDENTIFICATION
	
	DENOTES DRAWING NO WHERE SECTION IS LOCATED
<u>SECTION REFERENCE</u>	

	DENOTES DETAIL NUMBER IDENTIFICATION
	
	DENOTES DRAWING NO WHERE DETAIL IS LOCATED
<u>DETAIL REFERENCE</u>	

	DENOTES SECTION LETTER IDENTIFICATION
<u>SECTION</u>	
	SCALE:
	DENOTES DRAWING NO WHERE SECTION IS LOCATED
<u>SECTION TITLE</u>	

	DENOTES DETAIL NUMBER IDENTIFICATION
<u>DETAIL</u>	
	SCALE:
	DENOTES DRAWING NO WHERE DETAIL IS LOCATED
<u>DETAIL TITLE</u>	

4/26/2018 3:20:13 PM - C:\PROJECTS\ATLANTA\NER\01297-17020\CAD\SHEETFILES\G-003 GENERAL NOTES.DWG - ACKERMANN, HANNAH

GENERAL NOTES

PROJECT INFORMATION:

1. THE PROJECT SHALL CONSIST OF THE DEMOLITION OF THE EXISTING CMP CULVERT UNDER BROOM BOULEVARD AND THE INSTALLATION OF 48 LINEAR FEET OF DOUBLE 6'X5' BOX CULVERTS ALONG WITH THE RELOCATION OF THE EXISTING UTILITIES IN THE AREA.
2. THE ORDER OF MAJOR LAND DISTURBING ACTIVITIES IS INDICATED IN THE ACTIVITY SCHEDULE LOCATED ON SHEET C-505.
3. THE DISTURBED ACREAGE FOR THE PROJECT IS 0.59 ACRES.
4. THE CULVERT REPLACEMENT PROJECT LOCATION (BEGINNING AND END) IS:
33.34685° -84.45400°

FAYETTE COUNTY WATER SYSTEM NOTES:

1. FAYETTE COUNTY WATER SYSTEM SPECIFICATIONS AND DETAILS SHALL GOVERN ALL WATER MAIN CONSTRUCTION.
2. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH FAYETTE COUNTY WATER SYSTEM AND AWWA STANDARDS AND SPECIFICATIONS.
3. DUCTILE IRON PIPE (D.I.P.) SHALL BE MINIMUM PRESSURE CLASS 300 CEMENT MORTAR LINED, PER ANSI C151/A21.51. ALL FITTINGS SHALL BE MECHANICAL JOINT DUCTILE IRON PER ANSI A21.10 OR A21.53. ALL SERVICE PIPING SHALL BE COPPER.
4. PROVIDE THRUST RESTRAINT (THRUST BLOCKS OR RESTRAINED JOINTS) AT ALL BENDS, TEES, CROSSES AND END OF LINES. (EOL) SIDE FORMS SHALL BE USED TO PREVENT ENCASEMENT OF BOLTS. SERVICE TAPS SHALL NOT BE LOCATED BENEATH PAVEMENT.
5. MAINTAIN 24" MINIMUM CLEARANCE BETWEEN WATERLINE AND OTHER STRUCTURES, EXCEPT WHERE INDICATED IN PLANS.
6. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4' OVER ALL WATER LINES.
7. CONTRACTOR SHALL FLAG WATER LINE AND SERVICE LOCATIONS TO PREVENT DAMAGE BY OTHER UTILITY CONTRACTORS.
8. PROPER COMPACTION IS REQUIRED THROUGHOUT THE PROJECT. (95% PERVIOUS, 98% IMPERVIOUS)
9. UNSUITABLE SOIL MATERIALS SHALL BE REPLACED WITH SUITABLE MATERIALS.
10. NEW WATER LINE SHALL BE PRESSURE TESTED FOR 2 HOURS AT 200 P.S.I. UNACCEPTABLE LEAKAGE SHALL BE REPAIRED AND WATER LINE SHALL BE RETESTED PRIOR TO ACCEPTANCE BY FAYETTE COUNTY WATER SYSTEM. MAIN MUST BE DISINFECTED PRIOR TO BEING PLACED IN SERVICE.
11. TOP OF CURBS SHALL BE PERMANENTLY MARKED AND PAINTED BLUE AT MAIN AND SERVICE CROSSINGS, AS WELL AS, VALVE AND METER LOCATIONS.
12. WATERLINE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL, INCLUDING SIGNAGE AND FLAGMEN, WHILE WORKING WITHIN THE RIGHT OF WAY OF ANY EXISTING ROAD.
13. WATERLINE CONTRACTOR PERFORMING ANY WORK WITHIN AN EXISTING RIGHT OF WAY MUST COMPLY WITH THE MUTCD 2003 EDITION WITH REVISIONS NUMBER 1 AND 2 INCORPORATED, DATED DECEMBER 2007. FLAGGERS MUST POSSESS A CURRENT CERTIFICATION CARD. DOCUMENTATION SHALL BE AVAILABLE UPON REQUEST BY ANY COUNTY EMPLOYEE.
14. WATER TO BE PROVIDED BY FAYETTE COUNTY WATER SYSTEM.
15. ALL TIE-INS SHALL BE COORDINATED WITH FAYETTE COUNTY WATER SYSTEM. EXISTING VALVES SHALL BE OPERATED BY COUNTY PERSONNEL ONLY.
16. CONTRACTOR MUST NOTIFY FAYETTE COUNTY WATER SYSTEM 24 HOURS PRIOR TO BEGINNING CONSTRUCTION OR REQUESTING INSPECTIONS. ALL WORK MUST BE INSPECTED PRIOR TO BACKFILL AND COMPACTION. ANY WORK COVERED PRIOR TO INSPECTION IS SUBJECT TO REJECTION UNTIL IT HAS BEEN EXPOSED AND INSPECTED BY FAYETTE COUNTY WATER PERSONNEL.
17. NO TRENCHES OR PITS ARE TO BE LEFT OPEN OVERNIGHT OR THROUGH A WEEKEND. IF CREW VACATES JOB SITE DURING DAYTIME HOURS, A PROPERLY CONSTRUCTED, HIGHLY VISIBLE BARRICADE MUST BE ERECTED.
18. WHILE THE EXCAVATION IS OPEN, UNDERGROUND INSTALLATIONS SHALL BE PROTECTED, SUPPORTED OR REMOVED AS NECESSARY TO SAFEGUARD EMPLOYEES.
19. MEANS OF EGRESS FROM TRENCH EXCAVATIONS. A STAIRWAY, LADDER, RAMP OR OTHER SAFE MEANS OF EGRESS SHALL BE LOCATED IN TRENCH EXCAVATIONS THAT ARE 4 FEET OR MORE IN DEPTH SO AS TO REQUIRE NO MORE THAN 25 FEET OF LATERAL TRAVEL FOR EMPLOYEES.
20. CONTACT MATT BERGEN AT THE FAYETTE COUNTY WATER SYSTEM TO SCHEDULE A PRECONSTRUCTION MEETING PRIOR TO BEGINNING ANY WORK. PHONE: 770-320-6020 FAX: 770-719-5576
21. ALL CONTRACTORS MUST HAVE A CERTIFIED COMPETENT PERSON ON SITE WHILE WORK IS BEING PERFORMED. DOCUMENTATION SHALL BE AVAILABLE UPON REQUEST BY ANY COUNTY EMPLOYEE.
22. ALL CONTRACTORS PERFORMING ANY LAND DISTURBING ACTIVITY SHALL HAVE ATTENDED THE GSWCC SUB CONTRACTOR AWARENESS COURSE WHEN WORKING IN A COMMON DEVELOPMENT WHEN THE PRIMARY PERMITTEE HAS OBTAINED A LEVEL 1A CERTIFICATION. THE PRIMARY PERMITTEE IS REQUIRED TO HAVE A LEVEL 1A CERTIFIED REPRESENTATIVE ON SITE AT ALL TIMES. DOCUMENTATION SHALL BE AVAILABLE UPON REQUEST BY ANY COUNTY EMPLOYEE.
23. ANY CONTRACTOR PERFORMING ANY LAND DISTURBING ACTIVITY UNDER CONTRACT FOR FAYETTE COUNTY WATER SYSTEM SHALL BE CONSIDERED THE SECONDARY PERMITTEE FOR EACH PROJECT. THE CONTRACTOR SHALL BE REQUIRED TO HAVE A GSWCC LEVEL 1A CERTIFIED REPRESENTATIVE ON SITE AT ALL TIMES. DOCUMENTATION SHALL BE AVAILABLE UPON REQUEST BY ANY COUNTY EMPLOYEE.
24. BEFORE RELEASE OF THE WATER LINES, 2 CERTIFIED AS - BUILTS (24 X 36) MUST BE SUBMITTED ALONG WITH 2 SIGNED FINAL PLATS OR FINAL SITE PLANS. ONE ELECTRONIC COPY OF EACH DOCUMENT SHOULD BE SENT TO THE INSPECTOR UPON ACCEPTANCE.

GENERAL:

1. ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY FAYETTE COUNTY. WHERE CONFLICTS OR OMISSIONS EXIST, FAYETTE COUNTY STANDARDS SHALL DICTATE. SUBSTITUTIONS AND DEVIATION FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
2. SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
3. ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH THE FAYETTE COUNTY DEVELOPMENT REGULATIONS, LATEST EDITION, UNLESS OTHERWISE WAIVED.
4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND IN HAND BEFORE BEGINNING ANY CONSTRUCTION. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLANS AND ANY OTHER DOCUMENTATION FROM ALL OF THE PERMITTING AND ANY OTHER REGULATORY AUTHORITIES. ANY PENALTIES, STOP WORK ORDERS OR ADDITIONAL WORK RESULTING FROM THE CONTRACTOR BEING IN VIOLATION OF THE REQUIREMENTS ABOVE, SHALL BE FULLY BORNE BY THE CONTRACTOR.

GENERAL (CONTINUED):

6. THE LOCATION OF ALL EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING UNDERGROUND UTILITIES, WHETHER SHOWN ON THE PLAN OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FIRST. ANY FEES ASSOCIATED WITH UTILITY RELOCATIONS SHALL BE BORNE IN ACCORDANCE WITH RESPECTIVE UTILITY COMPANY STANDARDS. IT IS REQUESTED UTILITY COMPANIES MOVE THEIR PARTICULAR UTILITIES. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
7. THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING TO BE HELD BETWEEN FAYETTE COUNTY, UTILITIES, ENGINEER OF RECORD, AND CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
8. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND, INCLUDING LANDSCAPE SPRINKLERS, SHALL BE PLACED BENEATH THE PAVEMENT AND ITS EDGES PRIOR TO THE CONSTRUCTION OF THE PAVEMENT. THE PAVEMENT SHALL NOT BE CUT WITHOUT PRIOR APPROVAL OF THE ENGINEER.
9. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND AT LEAST 48 HOURS HOURS BEFORE REQUIRED INSPECTION ON EACH AND EVERY PHASE OF WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS NOTICE PRIOR TO ANY SCHEDULED TESTING. NO PRESSURE TESTING, OR FINAL TESTING WILL BE ACCEPTED UNLESS WITNESSED BY THE ENGINEER'S REPRESENTATIVE.
10. ALL CONTRACTORS, CITY REPRESENTATIVES, COUNTY REPRESENTATIVES, AND UTILITY COMPANIES ARE RESPONSIBLE FOR THEIR RESPECTIVE SURVEYING AND LAYOUT FROM BENCHMARK PROVIDED ON CONSTRUCTION PLANS. ANY SURVEY MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE REPLACED UPON COMPLETION OF THE WORK BY A REGISTERED LAND SURVEYOR.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY CONSTRUCTION ACTIVITIES FROM TAKING PLACE OUTSIDE OF THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS. ANY ON-SITE OR OFFSITE AREAS DISTURBED SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER.
12. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS AND ALL PERMITS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TWO (2) SETS OF RECORD DRAWINGS TO THE ENGINEER OF RECORD WITHIN TWO (2) WEEKS AFTER CONSTRUCTION HAS BEEN COMPLETED ON EACH PHASE.
13. TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS WERE TAKEN FROM SURVEY PROVIDED BY: ROCHESTER AND ASSOCIATES, INC., DATED: MAY 31, 2017.
14. ANY CONSTRUCTION BEYOND THE RIGHT-OF-WAY AND/OR ESTABLISHED EASEMENT LINES, ONTO ADJACENT PROPERTY, REQUIRES ADJACENT PROPERTY OWNER PERMISSION AND NECESSARY EASEMENTS PRIOR TO PERFORMING ANY WORK. THE CONTRACTOR IS TO VERIFY SUCH EASEMENTS AND PERMISSIONS PRIOR TO DISTURBING ANY OFF-SITE PROPERTY.
15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXISTING SITE CONDITIONS OF SOIL PRIOR TO N.T.P. CONSTRUCTION TO DETERMINE IF ANY OFF SITE MATERIALS WILL NEED TO BE IMPORTED TO ACHIEVE THE GRADES SPECIFIED ON THE PLANS.
16. CLEAR AREAS INDICATED SHALL BE COMPLETELY CLEAR OF ALL TIMBER, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH, AND ALL OTHER DEBRIS AND OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE GROUND.
17. PRIOR TO BID PREPARATION, THE CONTRACTOR MUST BECOME FAMILIAR WITH THE OVERALL SITE CONDITIONS AND PERFORM ADDITIONAL INVESTIGATIONS AS DETERMINED NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF EXPECTED ORGANIC SILT PEAT AREAS, ADEQUACY OF EXISTING MATERIALS AS FILL, DEWATERING REQUIREMENTS, CLEAN FILL REQUIRED FROM OFFSITE, AND MATERIALS TO BE DISPOSED OF OFFSITE, ALL OF WHICH WILL AFFECT HIS PRICING. ANY DELAY, INCONVENIENCE, OR EXPENSE CAUSED TO THE CONTRACTOR DUE TO INADEQUATE INVESTIGATION OF EXISTING CONDITIONS SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE MATERIALS ANTICIPATED TO BE ENCOUNTERED DURING CONSTRUCTION MAY REQUIRE DRYING PRIOR TO USE AS BACKFILL, AND THE CONTRACTOR MAY HAVE TO IMPORT MATERIALS, AT NO EXTRA COST, FROM OFFSITE TO MEET THE REQUIREMENTS FOR COMPACTION AND PROPER FILL.

DEMOLITION:

1. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS AND LICENSES FOR PERFORMING THE DEMOLITION WORK AND SHALL FURNISH A COPY OF THESE ITEMS TO THE ENGINEER PRIOR TO COMMENCING THE WORK. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE PERMITS.
2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OR LOCAL AUTHORITIES FURNISHING GAS, WATER, ELECTRICAL, TELEPHONE, OR SEWER SERVICE SO THEY CAN REMOVE, RELOCATE, DISCONNECT, CAP OR PLUG THEIR EQUIPMENT IN ORDER TO FACILITATE DEMOLITION.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL TREES, STRUCTURES, AND UTILITIES NOT MARKED FOR REMOVAL OR DEMOLITION AND SHALL PROMPTLY REPAIR ANY DAMAGE AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER.
4. THE CONTRACTOR SHALL REMOVE PAVING MARKED FOR DEMOLITION WHICH INCLUDES ALL ASPHALT, CONCRETE, BASE, AND RETAINING WALLS (INCLUDING THE FOOTERS).
5. THE CONTRACTOR SHALL REMOVE TREES MARKED FOR REMOVAL WHICH INCLUDES THE ROOTS ASSOCIATED WITH THE TREE. TREES NOT MARKED FOR REMOVAL SHALL BE PROTECTED IN ACCORDANCE WITH THE FAYETTE COUNTY REGULATIONS.
6. THE CONTRACTOR SHALL REMOVE UNSALVAGEABLE MATERIALS AND YARD WASTE FROM THE SITE IMMEDIATELY AND DISPOSE OF IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
7. THE CONTRACTOR SHALL SAW-CUT A SMOOTH STRAIGHT EDGE ON ANY PAVEMENT PROPOSED FOR DEMOLITION PRIOR TO ITS REMOVAL. PRIOR TO CONNECTING PROPOSED PAVEMENT TO EXISTING PAVEMENT, THE CONTRACTOR SHALL ENSURE THAT THE EDGE OF THE EXISTING PAVEMENT IS STRAIGHT AND UNIFORM.

EARTHWORK, GRADING, STABILIZATION, PAVING AND DRAINAGE:

1. COMPACT ALL UTILITY TRENCHES WITHIN ROADWAYS TO 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T - 180) AND TO 95% WITHIN OTHER AREAS.
2. ALL ORGANIC SOILS BELOW UTILITY TRENCHES SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL AND COMPACTED TO NO LESS THAN 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T - 180).
3. STABILIZED SUBGRADE TO MEET SPECIFIED REQUIREMENTS.
4. ASPHALTIC CONCRETE TO GDOT STANDARD SPECIFICATION (LATEST EDITION) SECTION 916.1 AND FAYETTE COUNTY, WHICHEVER IS GREATER.
5. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
6. ALL CONCRETE FLUMES, WALKS, AND CURBS SHALL BE CONSTRUCTED WITH 3000 PSI CONCRETE.
7. ALL ON-SITE AREAS DISTURBED BY THE CONSTRUCTION SHALL BE STABILIZED WITH SOD (SAME AS SURROUNDING AREA OR BETTER) OR APPROVED EQUAL. CONTRACTOR IS RESPONSIBLE FOR IRRIGATION OF PERMANENT GRASSING.
8. THE REINFORCED CONCRETE PIPE SHALL BE CLASS III WITH WALL THICKNESS "B" CONFORMING TO ASTM C - 76 OR AWWA 302 - 74 AND GASKETS SHALL BE IN ACCORDANCE WITH ASTM C - 443 OR ASTM D - 412.

EARTHWORK, GRADING, STABILIZATION, PAVING AND DRAINAGE (CONTINUED):

9. ALL PIPE CALL OUTS ARE MEASURED CENTER LINE TO CENTER LINE FOR MANHOLES AND INLETS AND FROM THE END OF THE PIPE FOR MITERED END SECTIONS.
10. ALL DEWATERING COSTS ASSOCIATED WITH THE INSTALLATION AND CONSTRUCTION OF THE UNDERGROUND UTILITIES; STORM WATER PIPES AND MANHOLES; SANITARY SEWER MAINS, FORCE MAINS, MANHOLES, AND LIFT STATIONS; AND STORM WATER MANAGEMENT SYSTEMS SHALL BE INCLUDED AS PART OF THE CONSTRUCTION BID COSTS. THE CONTRACTOR SHALL SUBMIT FOR WATER USE PERMITS IF REQUIRED FOR DEWATERING ACTIVITIES.
11. ALL PIPES SHALL HAVE 3 FEET MINIMUM COVER UNLESS OTHERWISE SPECIFIED IN PLANS, CONTRACTOR SHALL TAKE CARE TO PROVIDE PROPER GRADE ELEVATIONS AND ALIGNMENTS.
12. THE CONTRACTOR MUST INSTALL AND MAINTAIN GRASS OR SOD ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETED FINAL GRADES, AS NOTED ON PLANS, AND AT ANY OTHER TIME AS NECESSARY TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES TO ANY DOWNSTREAM WATER BODY, WETLAND, OR OFF-SITE PROPERTY. SODDING ON SLOPES 3:1 AND STEEPER SHALL BE STAKED.
13. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO CONTROL TURBIDITY AND SEDIMENT INCLUDING, BUT NOT LIMITED TO, THE INSTALLATION OF TURBIDITY BARRIERS AND SILT FENCES AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY AND SEDIMENT BARRIERS MUST BE MAINTAINED AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING THE BARRIERS.

OTHER UTILITY INFORMATION:

1. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES WHICH MAY HAVE THEIR UTILITIES WITHIN THE CONSTRUCTION AREAS TO LOCATE THEIR FACILITIES IN THE FIELD FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING CONSTRUCTION.
2. DUCTILE IRON PIPE SHALL BE ENCASED IN POLYETHYLENE TWENTY-FIVE (25) FEET ON EACH SIDE OF ANY PERPENDICULAR CROSSING OF METALLIC GAS MAINS OR ANY OTHER CATHODICALLY PROTECTED PIPELINE AND FOR LOCATIONS PARALLEL TO AND WITHIN TEN FEET OF METALLIC GAS MAINS OR OTHER CATHODICALLY PROTECTED PIPE AND THROUGH THE AREA OF INFLUENCE OF CATHODIC PROTECTION ANODE BED.
 - a. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
 - b. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
 - c. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF SIZE.
 - d. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
 - e. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.
2. 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 WATERS, 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 IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

TETRA TECH

GSWCC LEVEL II
CERT. # 0000073529

FAYETTE COUNTY
BROOM BLVD CULVERT REPLACEMENT

GENERAL NOTES

Project No.: 200-01297-17020

Designed By: CG

Drawn By: MR

Checked By: DL

G-003

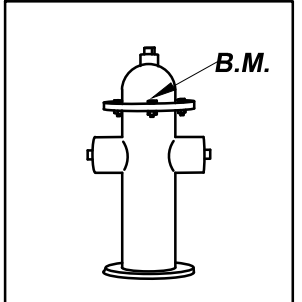
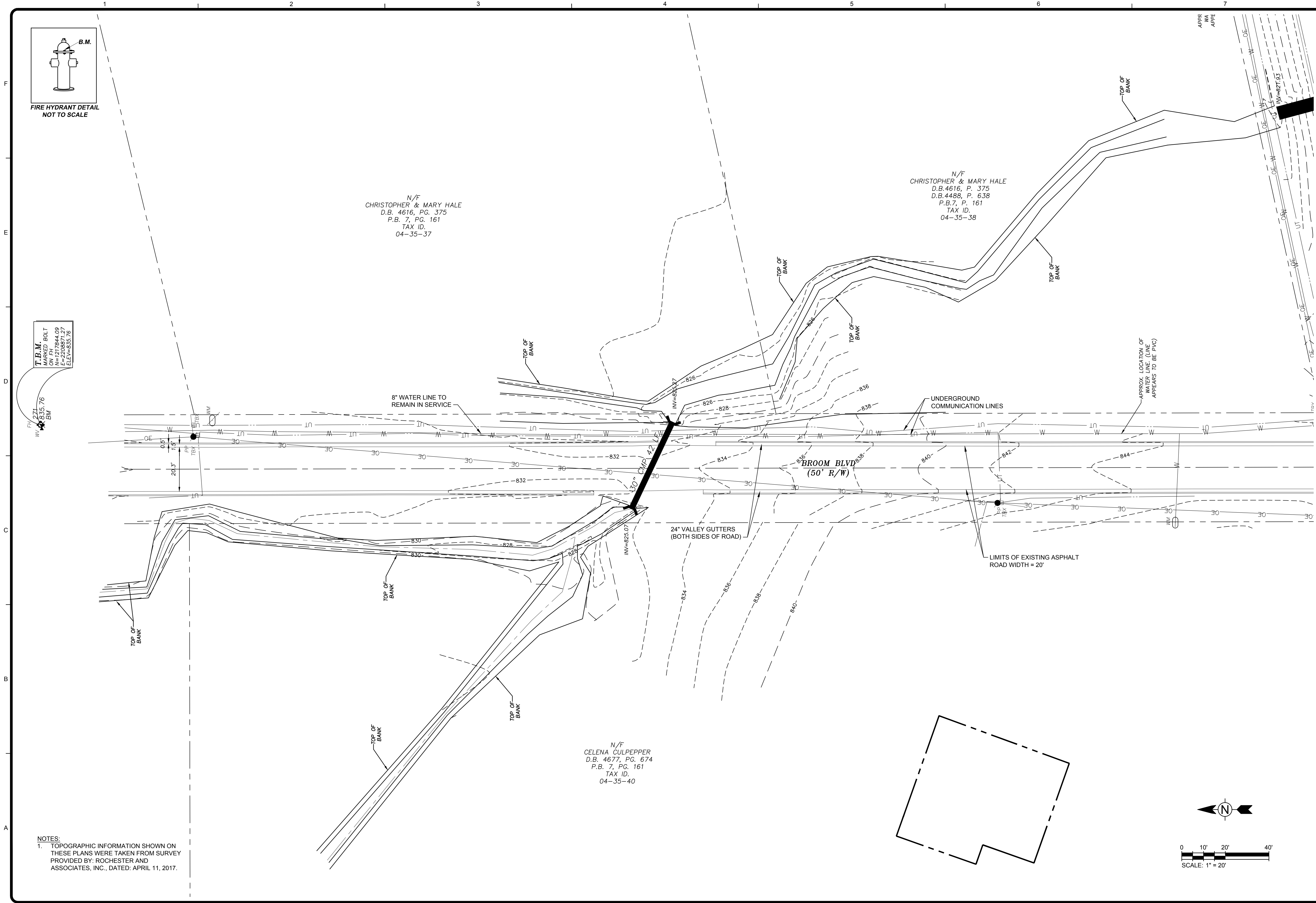
Bar Measures 1 inch

1899 POWERS FERRY ROAD SE, SUITE 400
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TEL: (770) 850-0949 FAX: (770) 850-0950

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FIRE HYDRANT DETAIL
NOT TO SCALE

T.B.M.
MARKED BOLT
ON FIRE
N=1217844.09
E=2209871.27
ELEV=835.76

FM 221
N=1217844.09
E=2209871.27
ELEV=835.76

NOTES:
1. TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS WERE TAKEN FROM SURVEY PROVIDED BY: ROCHESTER AND ASSOCIATES, INC., DATED: APRIL 11, 2017.

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GSWCC LEVEL II
CERT. # 0000073529

MARK	DATE	DESCRIPTION	BY
0	04/27/18	ISSUED FOR CONSTRUCTION	MR

FAYETTE COUNTY

BROOM BLVD CULVERT REPLACEMENT

EXISTING CONDITIONS

Project No.:	200-01297-17020
Designed By:	CG
Drawn By:	CG
Checked By:	DL

C-101

Bar Measures 1 inch

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DEMOLITION NOTES:

A. PROTECTION:

- PERFORM DEMOLITION SO AS TO PREVENT DAMAGE TO ADJACENT IMPROVEMENTS AND FACILITIES TO REMAIN.
- PROTECT NEW OR EXISTING WORK FROM DAMAGE DURING DEMOLITION OPERATIONS.
- PROTECT EXISTING SITE APPURTENANCES AND LANDSCAPING TO REMAIN.
- DAMAGES: WITHOUT COST TO THE OWNER AND WITHOUT DELAY, REPAIR ANY DAMAGES CAUSED TO FACILITIES TO REMAIN.

B. REMOVAL & DISPOSAL OF DEMOLISHED MATERIALS:

- ALL DEMOLISHED OR REMOVED ITEMS AND MATERIALS SHALL BE CONSIDERED SCRAP EXCEPT FOR THOSE INDICATED TO REMAIN, THOSE INDICATED TO BE REINSTALLED, THOSE INDICATED TO BE SALVAGED, AND HISTORICAL ITEMS.
- CONSTRUCTION OR ITEMS INDICATED TO REMAIN SHALL BE PROTECTED AGAINST DAMAGE DURING DEMOLITION OPERATIONS.
- PROMPTLY DISPOSE OF MATERIALS RESULTING FROM DEMOLITION OPERATIONS. DO NOT ALLOW MATERIALS TO ACCUMULATED ON SITE.
- TRANSPORT MATERIALS RESULTING FROM DEMOLITION OPERATIONS AND LEGALLY DISPOSE OF OFF-SITE.
- OFF-SITE DISPOSAL LOCATION SHALL NOT BE WITHIN ONE-HALF MILE OF ANY PORTION OF THE PROJECT SITE OR WITHIN SIGHT OF THE PROJECT SITE.
- DO NOT BURN REMOVED MATERIALS ON PROJECT SITE.
- CONTRACTOR TO COORDINATE THE LOCATION OF ANY MATERIAL LAYDOWN AREAS WITH THE COUNTY.

C. POLLUTION CONTROLS:

- CONTROL THE SPREAD OF DUST AND DIRT WITH PRACTICAL MEANS.
- OBSERVE ENVIRONMENTAL PROTECTION REGULATIONS.
- DO NOT ALLOW WATER USAGE THAT RESULTS IN FREEZING OR FLOODING.
- DO NOT ALLOW ADJACENT IMPROVEMENTS TO REMAIN OR BECOME SOILED BY DEMOLITION OPERATIONS.

D. CLEANING:

- REMOVE TOOLS AND EQUIPMENT. DISPOSE OF SCRAP.
- LEAVE EXTERIOR AREAS FREE OF DEBRIS.
- CLEAN SOIL, SMUDGES, AND DUST FROM SURFACES TO REMAIN.
- RETURN STRUCTURES AND SURFACES TO REMAIN TO CONDITION EXISTING PRIOR TO COMMENCEMENT OF DEMOLITION.

NOTES:

- CONTRACTOR TO MAINTAIN ONE LANE OF TRAFFIC AT ALL TIMES THROUGHOUT PROJECT.
- ALL CONCRETE FORMWORK AND REINFORCING BARS TO BE INSPECTED BY THE FIELD REPRESENTATIVE IN CONJUNCTION WITH THE CONTRACTORS REPRESENTATIVE BEFORE CONCRETE IS PLACED.
- AS-BUILT DRAWINGS SHALL CONTAIN ALL RELEVANT ELEVATIONS AND INVERTS AND THEIR LOCATIONS.
- CONTRACTOR TO ESTABLISH TEMPORARY SUPPORT FOR EXISTING UTILITIES AND MAINTAIN IT THROUGHOUT CONSTRUCTION.
- CONTRACTOR TO MAINTAIN UTILITY SERVICES DURING CONSTRUCTION, WITH MINIMAL INTERRUPTION.
- CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED CURB OR DRIVEWAYS DURING CONSTRUCTION.

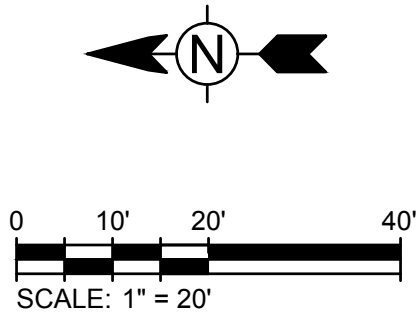
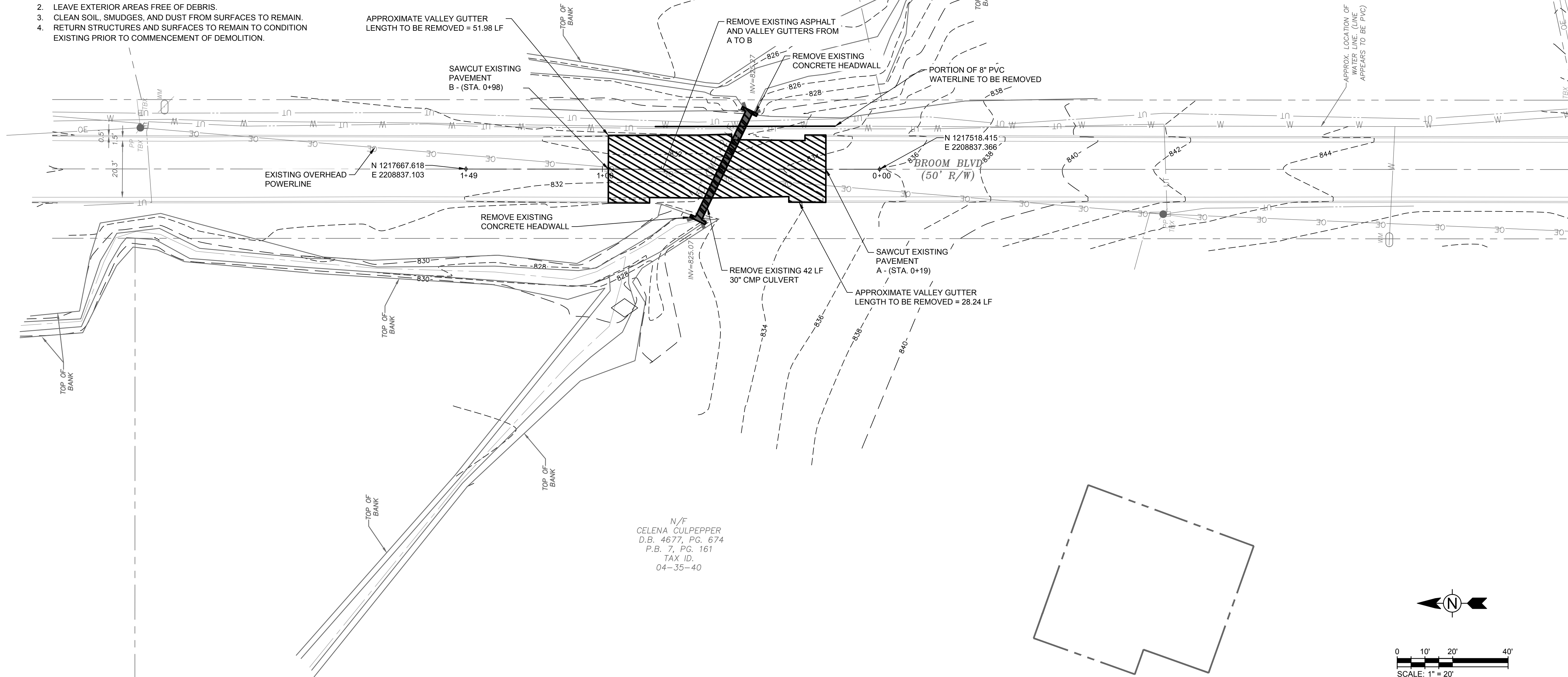
N/F
CHRISTOPHER & MARY HALE
D.B. 4616, P. 375
P.B. 7, PG. 161
TAX ID.
04-35-37


N/F
CHRISTOPHER & MARY HALE
D.B. 4616, P. 375
D.B. 4488, P. 638
P.B. 7, P. 161
TAX ID.
04-35-38


N/F
CELENA CULPEPPER
D.B. 4677, PG. 674
P.B. 7, PG. 161
TAX ID.
04-35-40

T.B.M.
MARKED BOLT
N=1217844.09
E=2208871.27
ELEV=835.76

FW 271
BM
835.76



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GSWCC LEVEL II
CERT. # 0000073529

MARK	DATE	DESCRIPTION	BY
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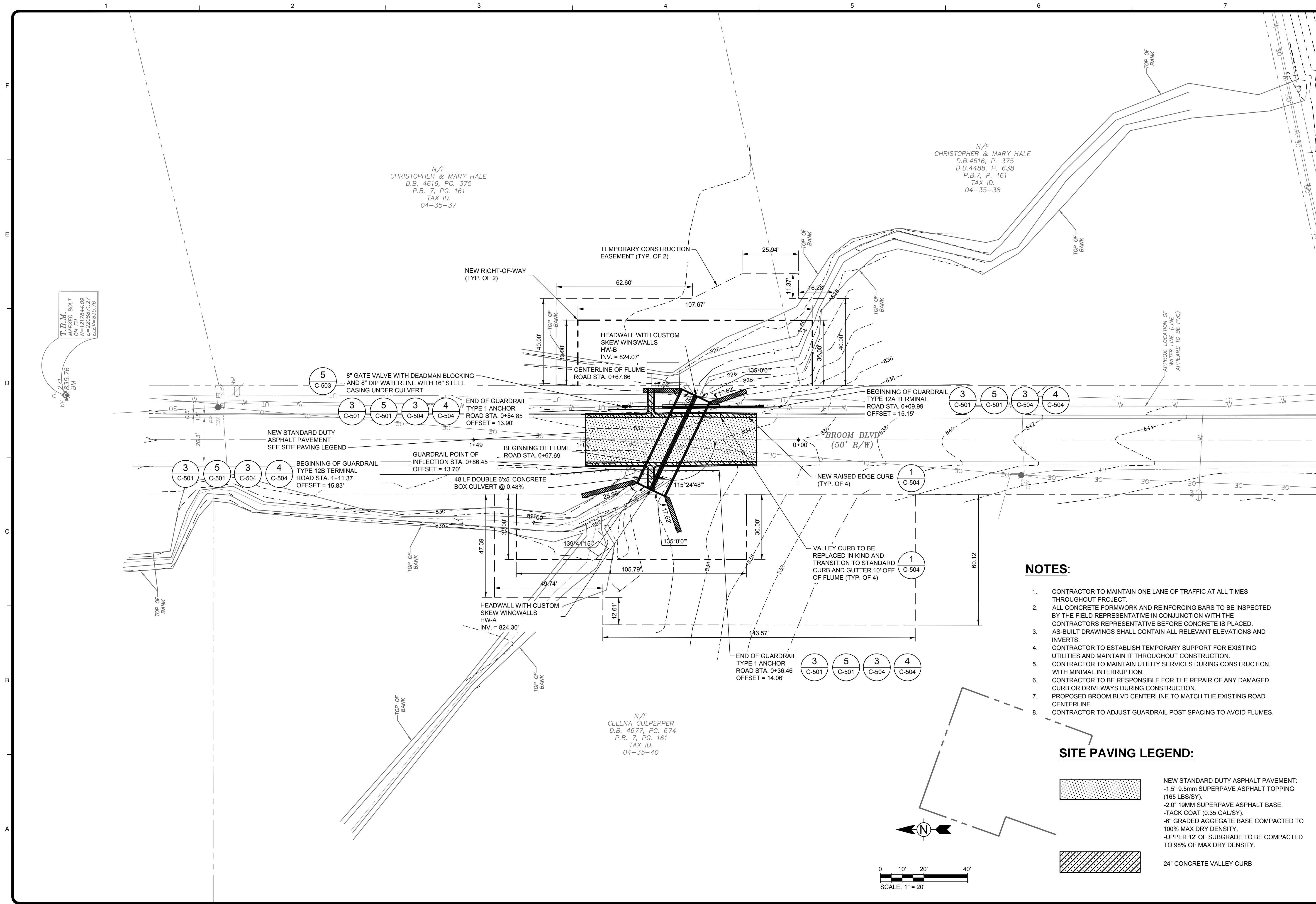
FAYETTE COUNTY
BROOM BLVD CULVERT REPLACEMENT

DEMOLITION PLAN

Project No.: 200-01297-17020
Designed By: CG
Drawn By: CG
Checked By: DL

C-102
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Bar Measures 1 inch

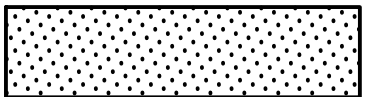
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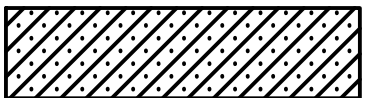
NOTES:

1. CONTRACTOR TO MAINTAIN ONE LANE OF TRAFFIC AT ALL TIMES THROUGHOUT PROJECT.
2. ALL CONCRETE FORMWORK AND REINFORCING BARS TO BE INSPECTED BY THE FIELD REPRESENTATIVE IN CONJUNCTION WITH THE CONTRACTORS REPRESENTATIVE BEFORE CONCRETE IS PLACED. AS-BUILT DRAWINGS SHALL CONTAIN ALL RELEVANT ELEVATIONS AND INVERTS.
3. CONTRACTOR TO ESTABLISH TEMPORARY SUPPORT FOR EXISTING UTILITIES AND MAINTAIN IT THROUGHOUT CONSTRUCTION.
4. CONTRACTOR TO MAINTAIN UTILITY SERVICES DURING CONSTRUCTION, WITH MINIMAL INTERRUPTION.
5. CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED CURB OR DRIVEWAYS DURING CONSTRUCTION.
6. PROPOSED BROOM BLVD CENTERLINE TO MATCH THE EXISTING ROAD CENTERLINE.
7. CONTRACTOR TO ADJUST GUARDRAIL POST SPACING TO AVOID FLUMES.

SITE PAVING LEGEND:



NEW STANDARD DUTY ASPHALT PAVEMENT:
-1.5" 9.5mm SUPERPAVE ASPHALT TOPPING (165 LBS/SY).
-2.0" 19MM SUPERPAVE ASPHALT BASE.
-TACK COAT (0.35 GAL/SY).
-6" GRADED AGGREGATE BASE COMPACTED TO 100% MAX DRY DENSITY.
-UPPER 12" OF SUBGRADE TO BE COMPACTED TO 98% OF MAX DRY DENSITY.



24" CONCRETE VALLEY CURB



GSWCC LEVEL II
CERT. # 0000073529

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0	04/27/18	ISSUED FOR CONSTRUCTION	MR

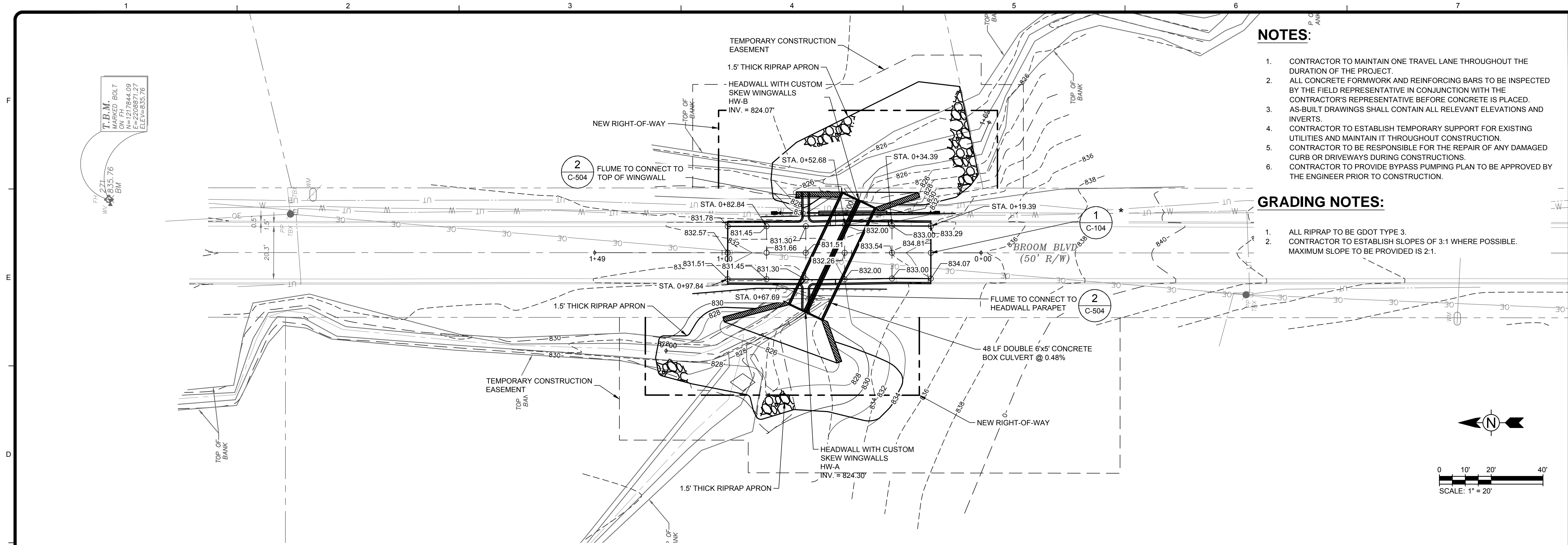
FAYETTE COUNTY
BROOM BLVD CULVERT REPLACEMENT
SITE PLAN

Project No.:	200-01297-17020
Designed By:	CG
Drawn By:	CG
Checked By:	DL

C-103

Bar Measures 1 inch

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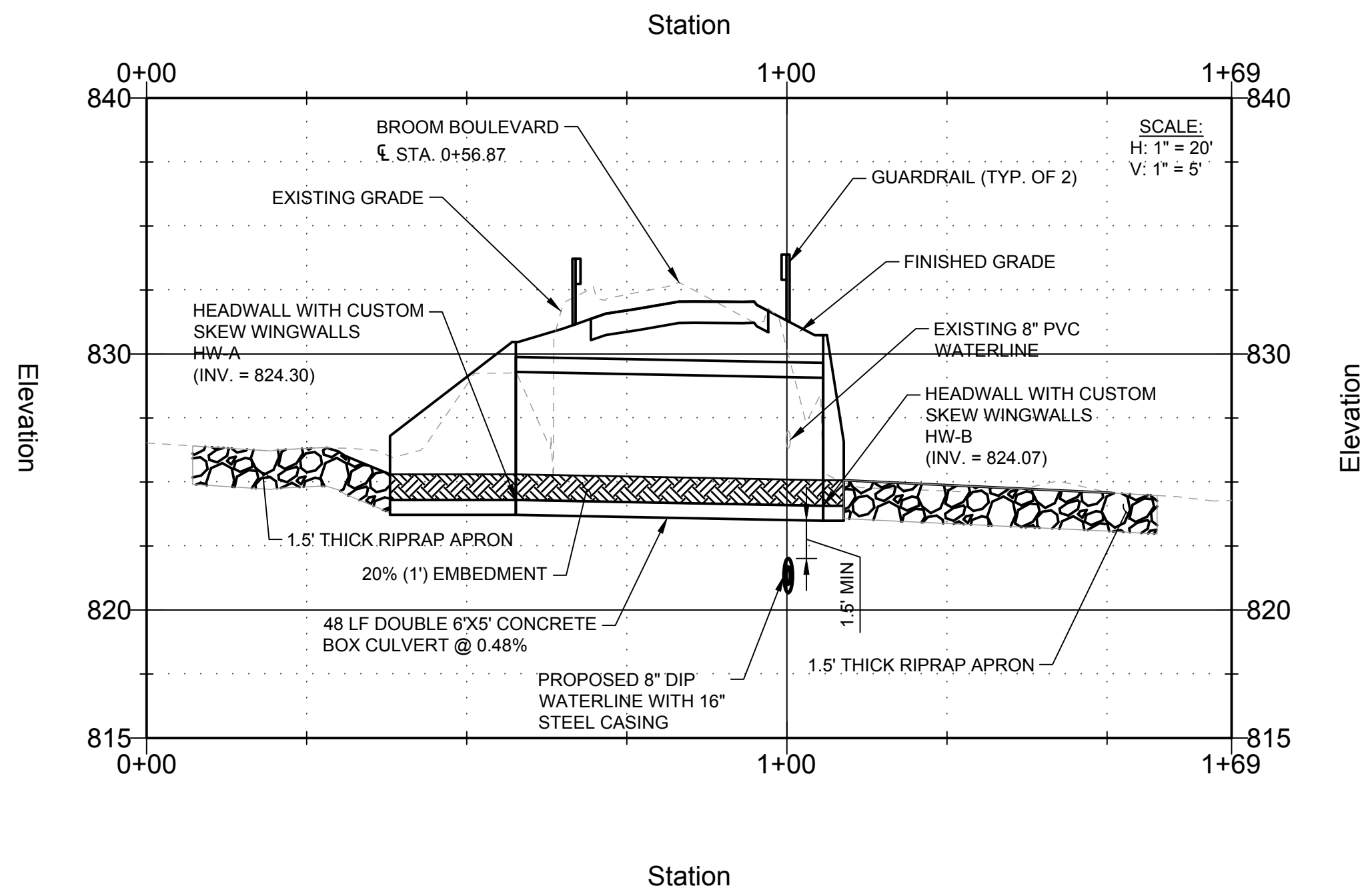
NOTES:

1. CONTRACTOR TO MAINTAIN ONE TRAVEL LANE THROUGHOUT THE DURATION OF THE PROJECT.
2. ALL CONCRETE FORMWORK AND REINFORCING BARS TO BE INSPECTED BY THE FIELD REPRESENTATIVE IN CONJUNCTION WITH THE CONTRACTOR'S REPRESENTATIVE BEFORE CONCRETE IS PLACED.
3. AS-BUILT DRAWINGS SHALL CONTAIN ALL RELEVANT ELEVATIONS AND INVERTS.
4. CONTRACTOR TO ESTABLISH TEMPORARY SUPPORT FOR EXISTING UTILITIES AND MAINTAIN IT THROUGHOUT CONSTRUCTION.
5. CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED CURB OR DRIVEWAYS DURING CONSTRUCTIONS.
6. CONTRACTOR TO PROVIDE BYPASS PUMPING PLAN TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

GRADING NOTES:

1. ALL RIPRAP TO BE GDOT TYPE 3.
2. CONTRACTOR TO ESTABLISH SLOPES OF 3:1 WHERE POSSIBLE. MAXIMUM SLOPE TO BE PROVIDED IS 2:1.

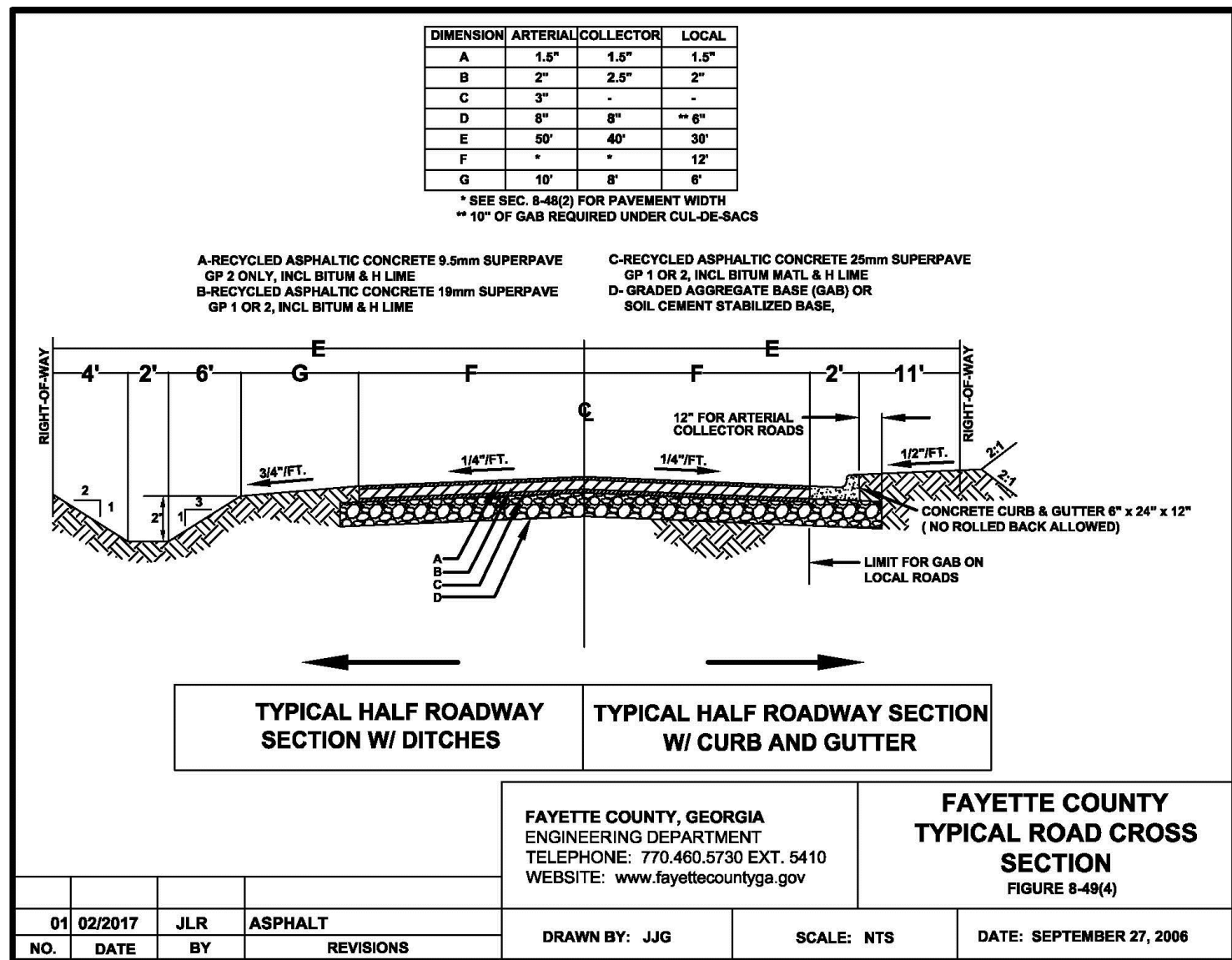
BROOM BLVD CULVERT PROFILE



FLOW SUMMARY TABLE

STORM FREQUENCY	FLOW (CFS)	OUTLET VELOCITY (FPS)	DOWNSTREAM VELOCITY (FPS)
25-YEAR	206	8.0	6.5
50-YEAR	295	9.1	7.5
100-YEAR	393	10.0	8.4

DRAINAGE AREA = 205.1 ACRES
STREAM SLOPE = 1.34%



1
SCALE: N.T.S.

* ROADWAY TO MATCH FAYETTE COUNTY TYPICAL CROSS SECTION FROM STA. 0+34.39 TO 0+82.84

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GSWCC LEVEL II
CERT. # 0000073529

MARK	DATE	DESCRIPTION	BY
0	04/27/18	ISSUED FOR CONSTRUCTION	MR

FAYETTE COUNTY

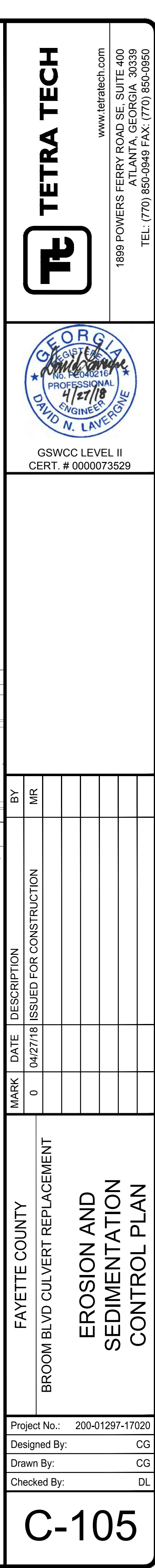
BROOM BLVD CULVERT REPLACEMENT

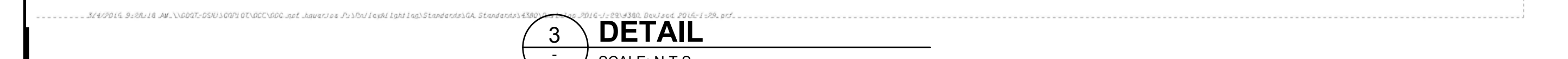
GRADING AND
DRAINAGE PLAN

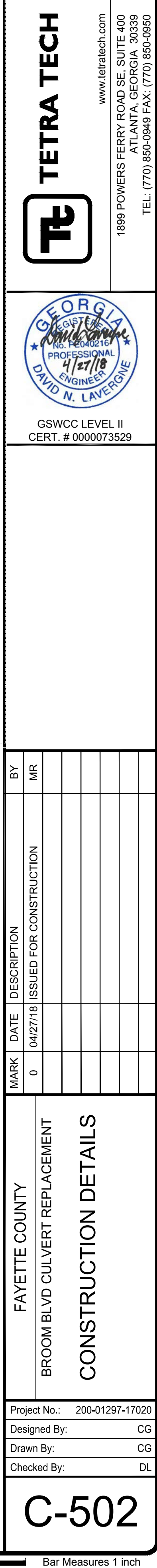
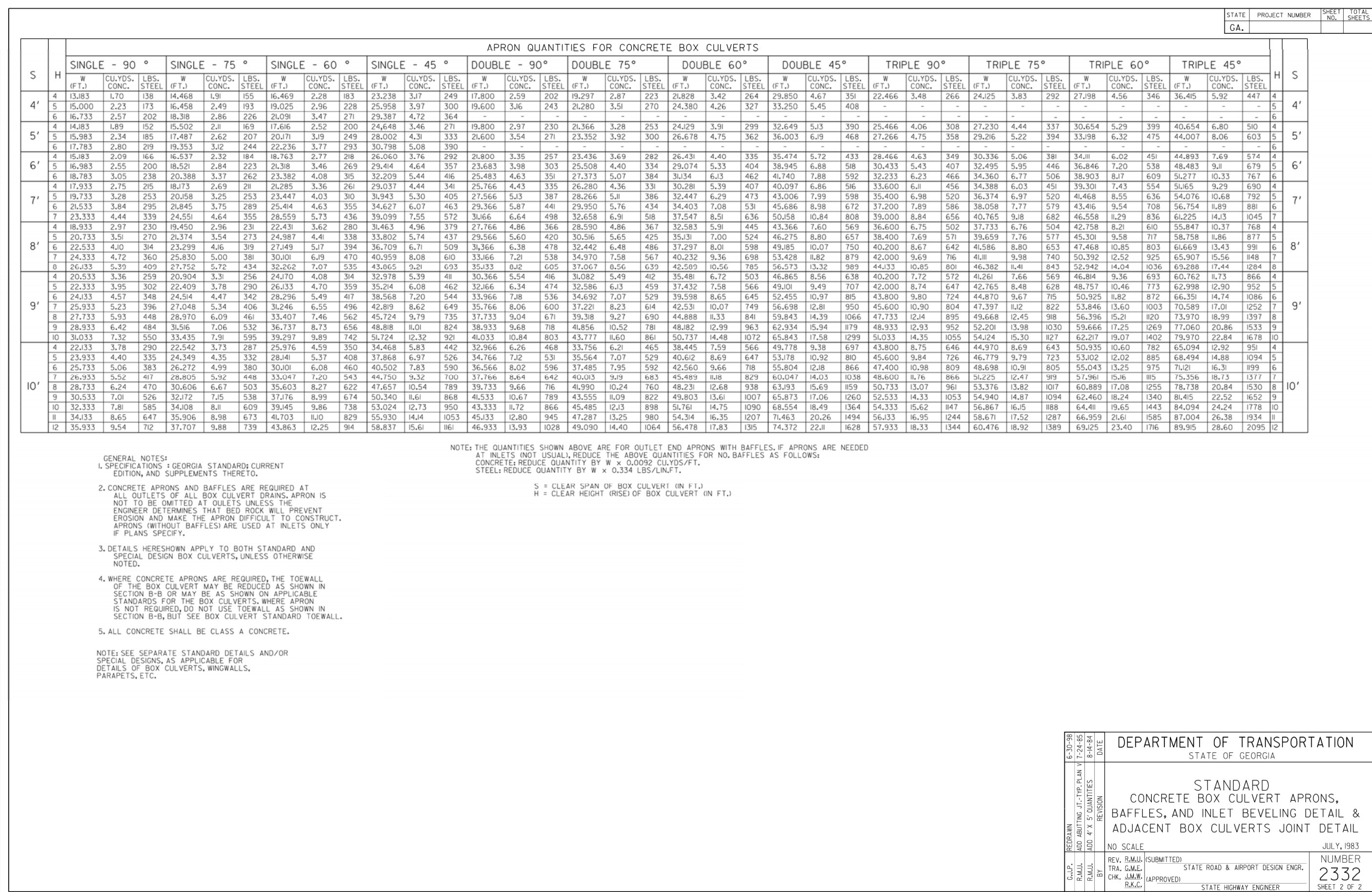
Project No.: 200-01297-17020
Designed By: CG
Drawn By: CG
Checked By: DL

C-104

Bar Measures 1 inch



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SCALE: N.T.S.

SCALE: N.T.S.



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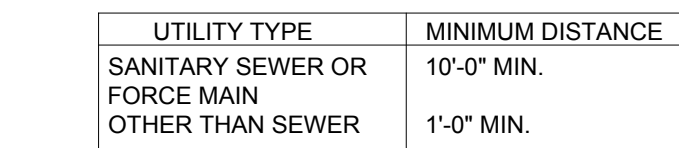
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1. WHEN CONSTRUCTION IS WITHIN FAA OR FDOT JURISDICTION, ADDITIONAL REQUIREMENTS OF THE UTILITY ACCOMMODATION GUIDE SHALL BE MET.
2. DISTANCE BETWEEN SPACERS TO BE PER PROJECT SPECIFICATIONS.
3. NO FLOWABLE FILL BETWEEN THE ANNULAR SPACE OF THE CASING OR CARRIER PIPE.
4. SHALL BE A MINIMUM OF 8' OR MEET FAYETTE COUNTY SPECIFICATIONS REQUIREMENTS, WHICHEVER IS GREATER.

STEEL CASING

SCALE: N.T.S



NOTE: 18" MIN SEPARATION
FOR STORM DRAIN CROSSINGS

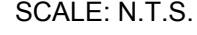
RESTRAINED JOINT UTILITY CROSSING FOR UTILITIES OTHER THAN SEWER MAINS

RESTRAINED LENGTHS FOR DEAD ENDS, BRANCHES AND HDPE TO PVC TRANSITIONS SHALL BE THE SAME AS FOR 90° BENDS. IN-LINE VALVES SHALL BE RESTRAINED 20' EACH SIDE OF THE VALVE. (IF A JOINT FALLS AT THE MAXIMUM DISTANCE, IT SHALL BE RESTRAINED). TABLE BASED ON IRON FITTINGS. TEST PRESSURE 150 PSI.

RESTRAINED JOINT SCHEDULE

DETAIL

SCALE: N.T.S.



N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

NOTE: THESE THRUST BLOCKING DETAILS SHALL BE USED IN CONJUNCTION WITH RESTRAINT JOINT PIPE

FAYETTE COUNTY
BROOM BLVD CULVERT REPLACEMENT
CONSTRUCTION DETAILS

Project No.: 200-01297-17020

Designed By: CG

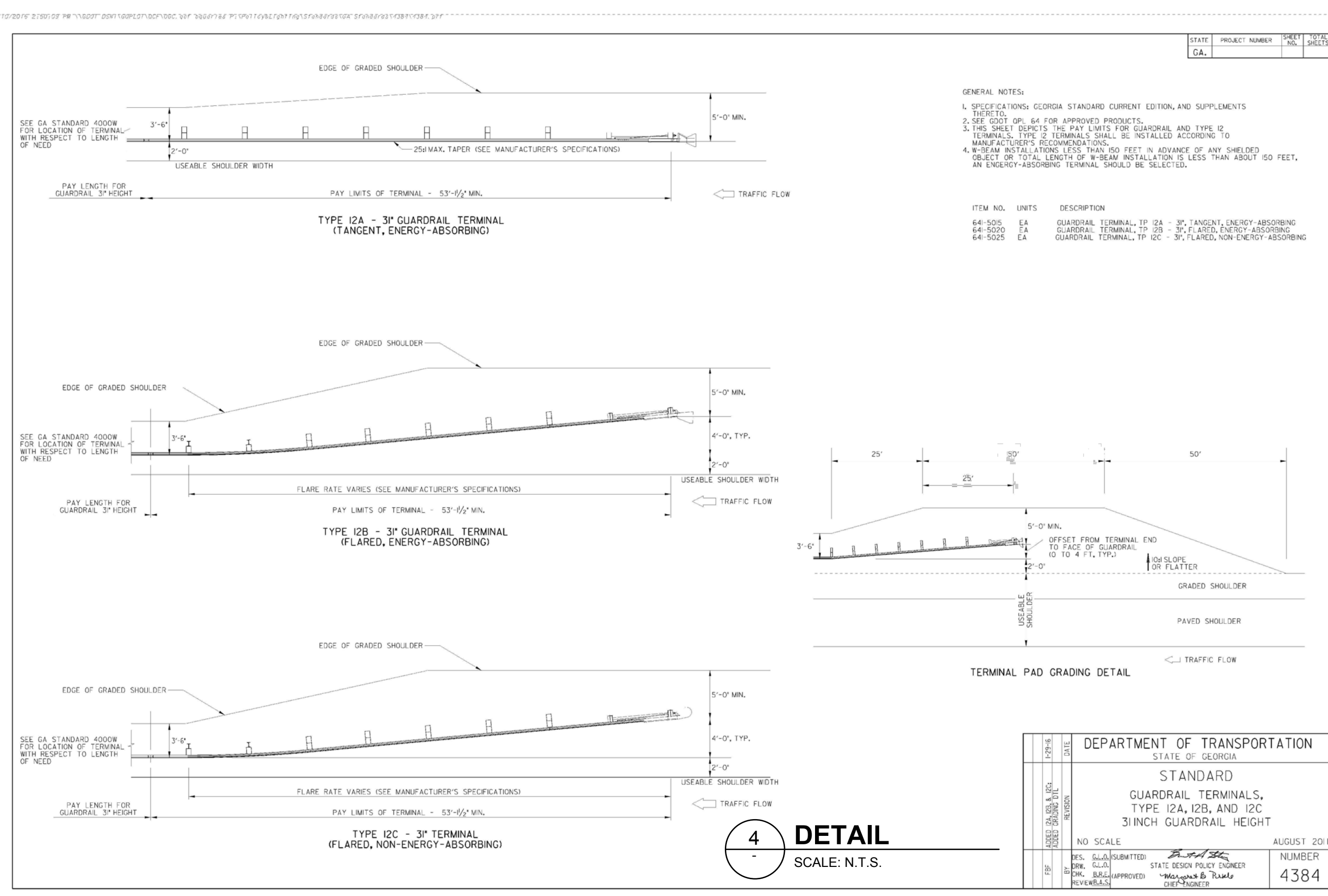
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C-503



2 FLUME DETAIL
SCALE: N.T.S.



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<div>EROSION CONTROL ACTIVITIES</div> <table><tr><td>Co</td><td>CONSTRUCTION EXIT</td><td>Ds1</td><td>SEDIMENT BARRIER</td><td>Ds1</td><td>SEDIMENT BARRIER WITH MULCHING ONLY</td><td>Ds2</td><td>DISTURBED AREA STABILIZATION (WITH SEEDING)</td><td>Ds3</td><td>DISTURBED AREA STABILIZATION (WITH SEEDING)</td><td>Ma</td><td>MATTING AND BLANKETS</td><td>Ma</td><td>MATTING AND BLANKETS</td></tr><tr><td>Ds1</td><td>SEDIMENT BARRIER</td><td>Ds1</td><td>SEDIMENT BARRIER WITH MULCHING ONLY</td><td>Ds2</td><td>DISTURBED AREA STABILIZATION (WITH SEEDING)</td><td>Ds3</td><td>DISTURBED AREA STABILIZATION (WITH SEEDING)</td><td>Ma</td><td>MATTING AND BLANKETS</td><td>Ma</td><td>MATTING AND BLANKETS</td><td>Ma</td><td>MATTING AND BLANKETS</td></tr><tr><td>Ds2</td><td>DISTURBED AREA STABILIZATION (WITH SEEDING)</td><td>Ds3</td><td>DISTURBED AREA STABILIZATION (WITH SEEDING)</td><td>Ma</td><td>MATTING AND BLANKETS</td><td>Ma</td><td>MATTING AND BLANKETS</td><td>Ma</td><td>MATTING AND BLANKETS</td><td>Ma</td><td>MATTING AND BLANKETS</td><td>Ma</td><td>MATTING AND BLANKETS</td></tr></table>				Co	CONSTRUCTION EXIT	Ds1	SEDIMENT BARRIER	Ds1	SEDIMENT BARRIER WITH MULCHING ONLY	Ds2	DISTURBED AREA STABILIZATION (WITH SEEDING)	Ds3	DISTURBED AREA STABILIZATION (WITH SEEDING)	Ma	MATTING AND BLANKETS	Ma	MATTING AND BLANKETS	Ds1	SEDIMENT BARRIER	Ds1	SEDIMENT BARRIER WITH MULCHING ONLY	Ds2	DISTURBED AREA STABILIZATION (WITH SEEDING)	Ds3	DISTURBED AREA STABILIZATION (WITH SEEDING)	Ma	MATTING AND BLANKETS	Ma	MATTING AND BLANKETS	Ma	MATTING AND BLANKETS	Ds2	DISTURBED AREA STABILIZATION (WITH SEEDING)	Ds3	DISTURBED AREA STABILIZATION (WITH SEEDING)	Ma	MATTING AND BLANKETS	Ma	MATTING AND BLANKETS	Ma	MATTING AND BLANKETS	Ma	MATTING AND BLANKETS	Ma	MATTING AND BLANKETS	<table><thead><tr><th>TYPE OF SPECIES</th><th>YEAR</th><th>ANALYSIS OR EQUIVALENT N-P-K</th><th>RATE</th><th>N TOP DRESSING RATE</th></tr></thead><tbody><tr><td>Cool season grasses</td><td>First Second Maintenance</td><td>6-12-12 6-12-12 0-10-10</td><td>1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.</td><td>50-100 lbs./ac. 1/ 2/ 30</td></tr><tr><td>Cool season grasses and legumes</td><td>First Second Maintenance</td><td>6-12-12 0-10-10 0-10-10</td><td>1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.</td><td>0-50 lbs./ac. 1/ -</td></tr><tr><td>Ground covers</td><td>First Second Maintenance</td><td>10-10-10 10-10-10 10-10-10</td><td>300 lbs./ac. 3/ 1300 lbs./ac. 3/ 1000 lbs./ac.</td><td>- - -</td></tr><tr><td>Pine seedlings</td><td>First</td><td>20-10-5</td><td>one 21-gal pellet per seedling placed in the closing hole</td><td>-</td></tr><tr><td>Shrub Lespedeza</td><td>First Maintenance</td><td>0-10-10 0-10-10</td><td>700 lbs./ac. 700 lbs./ac. 4/</td><td>-</td></tr><tr><td>Temporary cover crops seeded alone</td><td>First</td><td>10-10-10</td><td>500 lbs./ac.</td><td>30 lbs./ac. 5/</td></tr><tr><td>Warm season grasses</td><td>First Second Maintenance</td><td>6-12-12 6-12-12 10-10-10</td><td>1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.</td><td>50-100 lbs./ac. 2/ 6/ 30 lbs./ac.</td></tr><tr><td>Warm season grasses and legumes</td><td>First Second Maintenance</td><td>6-12-12 0-10-10 0-10-10</td><td>1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.</td><td>50 lbs./ac. 6/</td></tr></tbody></table> <div>1/ Apply in spring following seedling. 2/ Apply in spring following seedling. 3/ Apply in 3 split applications when high rates are used. 4/ Apply when plants are pruned. 5/ Apply to grass species only. 6/ Apply when plants grow to a height of 2 to 4 inches.</div> <div>MULCHING RATES: 1. DRY STRAW: 2 TONS PER ACRE. 2. DRY HAY: 2-1/2 TONS PER ACRE. 3. FOR HYDRAULIC SEEDING USE WOOD CELLULOSE MULCH OR WOOD PULP FIBER AT THE RATE OF 500 POUNDS PER ACRE.</div> <div>FERTILIZER AND MULCHING REQUIREMENTS</div>				TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE	Cool season grasses	First Second Maintenance	6-12-12 6-12-12 0-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 1/ 2/ 30	Cool season grasses and legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	0-50 lbs./ac. 1/ -	Ground covers	First Second Maintenance	10-10-10 10-10-10 10-10-10	300 lbs./ac. 3/ 1300 lbs./ac. 3/ 1000 lbs./ac.	- - -	Pine seedlings	First	20-10-5	one 21-gal pellet per seedling placed in the closing hole	-	Shrub Lespedeza	First Maintenance	0-10-10 0-10-10	700 lbs./ac. 700 lbs./ac. 4/	-	Temporary cover crops seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/	Warm season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 2/ 6/ 30 lbs./ac.	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EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL AND SHALL COMPLY WITH THE STANDARDS AND SPECIFICATIONS IN THE "MANUAL FOR EROSION CONTROL AND SEDIMENT CONTROL IN GEORGIA".</div> <div>2. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE.</div> <div>3. DISTURBED AREAS LEFT IDLE FOR FIVE DAYS, AND NOT TO FINAL GRADE, WILL BE ESTABLISHED WITH TEMPORARY MULCH (DS1) OR VEGETATION (DS2). DISTURBED AREAS LEFT IDLE FOR TWO WEEKS OR MORE WILL BE ESTABLISHED WITH PERMANENT VEGETATION (DS3). ALL AREAS AT FINAL GRADE WILL BE ESTABLISHED WITH PERMANENT VEGETATION IMMEDIATELY UPON COMPLETION. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING. DURING UNSUITABLE GROWING SEASONS, MULCH WILL BE USED AS A TEMPORARY COVER (DS3). ON SLOPES THAT ARE 2:1 OR STEEPER, MULCH WILL BE ANCHORED.</div> <div>4. IN CONCENTRATED FLOW AREAS: ALL SLOPES STEEPER THAN 2.5:1, HEIGHT TEN FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFER, STABILIZE WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.</div> <div>5. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.</div> <div>6. SEDIMENT/EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE THIRD THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.</div> <div>7. THE USE OF POLYMERS (PAMS) IS ACCEPTED AS A BMP AS RECOMMENDED BY THE STATE SOIL & WATER CONSERVATION COMMISSION BMP "GREEN BOOK". POLYMERS USED TO STABILIZE CONSTRUCTION SITES MUST BE USED IN CONJUNCTION WITH MULCHING AND OR HYDROSEEDING.</div> <div>8. MULCH, TEMPORARY VEGETATION, AND PERMANENT (PERENNIAL) VEGETATION SHALL BE COMPLETED ON ALL EXPOSED AREAS WITHIN 14 DAYS AFTER DISTURBANCE.</div> <div>9. ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED BY ENGINEER DURING CONSTRUCTION.</div> <div>10. DUE TO THE NATURE AND LOCATION OF THE CONSTRUCTION ACTIVITY, PROVIDING SEDIMENT STORAGE FOR 67 CUBIC YARDS OF SEDIMENT PER ACRE DISTURBED IS NOT FEASIBLE. APPROPRIATE BMPs THAT LIMIT THE TRANSPORT OF SEDIMENT FROM THE SITE WILL BE UTILIZED. THERE BMPs INCLUDE BUT ARE NOT LIMITED TO SILT FENCE AND TEMPORARY MULCHING, GRASSING OR PERMANENT GRASSING FOR THE DISTURBED AREAS OF THE PROJECT.</div> <div>11. THE EXISTING AND PROPOSED RUNOFF COEFFICIENT FOR THIS SITE IS APPROXIMATELY 0.3</div> <div>EROSION CONTROL CHECKLIST CERTIFICATIONS:</div> <div>1. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFER AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.</div> <div>2. 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.</div> <div>3. 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.</div> <div>4. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.</div> <div>5. ALL STREAM BUFFER DISTURBANCES ARE ASSOCIATED WITH THE CULVERT REPLACEMENT. THE PROJECT DISTURBS LESS THAN 100 LINEAR FEET OF STREAM AND IS CLASSIFIED AS A UTILITY CROSSING. AS SUCH NO USACE PERMIT OR BUFFER VARIANCE IS ANTICIPATED.</div> <div>"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."</div> <div>STRUCTURAL PRACTICES</div> <div>VEGETATIVE PRACTICES</div> <div>CONSTRUCTION SCHEDULE</div> <table><thead><tr><th>MONTHS</th><th>1</th><th>2</th><th>3</th></tr></thead><tbody><tr><td>INSTALLATION OF SEDIMENT CONTROL MEASURES</td><td></td><td></td><td></td></tr><tr><td>DEMOLITION</td><td></td><td></td><td></td></tr><tr><td>CLEARING, GRUBBING</td><td></td><td></td><td></td></tr><tr><td>PIPE INSTALLATION</td><td></td><td></td><td></td></tr><tr><td>PAVING</td><td></td><td></td><td></td></tr><tr><td>GRASSING</td><td></td><td></td><td></td></tr><tr><td>MAINTAINING OF EROSION AND SOIL CONTROL MEASURES</td><td></td><td></td><td></td></tr><tr><td>FINAL LANDSCAPING, GRASSING</td><td></td><td></td><td></td></tr></tbody></table> <div>USGS QUAD MAP</div> <div>PROJECT LOCATION</div> <div>RECEIVING WATER: UNNAMED CREEK</div> <div>USGS QUAD MAP</div> <div>NOT TO SCALE</div> <div>24-HOUR EMERGENCY CONTACT: PHILIP MALLON (770-313-9855)</div>				MONTHS	1	2	3	INSTALLATION OF SEDIMENT CONTROL MEASURES				DEMOLITION				CLEARING, GRUBBING				PIPE INSTALLATION				PAVING				GRASSING				MAINTAINING OF EROSION AND SOIL CONTROL MEASURES				FINAL LANDSCAPING, GRASSING				<div>MAJOR LAND RESOURCE AREAS (MLRA) OF GEORGIA</div> <div>LEGEND</div> <div>1/ TEMPORARY COVER CROPS ARE VERY COMPETITIVE AND WILL CROWN OUT PERENNIALS IF SEEDED TOO HEAVILY. 2/ REDUCE SEEDING RATES BY 50% WHEN DRILLED. 3/ PL 15 IS AN ABBREVIATION FOR PURE LIVE SEED. 4/ M-1 REPRESENTS TO MOUNTAIN BLUE RIDGE, AND RIDGES AND VALLEYS MLRA'S 5/ M-2 REPRESENTS THE SOUTHERN PIEDMONT 6/ C REPRESENTS THE SOUTHERN COASTAL PLAIN, SAND HILLS, BLACK LANDS, AND ATLANTIC COAST FLATWOODS MLRA'S (SEE FIGURE 6-4-1, P. 6-4-1 IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL FOR GEORGIA)</div> <div>DISTURBED AREA STABILIZATION (TMP. SEEDING)</div> <div>2014 MANUAL FOR EROSION AND SEDIMENT CONTROL (GREEN BOOK)</div> <div>Figure 6-27-2</div> <div>Ds2</div> <div>DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)</div> <div>2014 MANUAL FOR EROSION AND SEDIMENT CONTROL (GREEN BOOK)</div> <div>Figure 6-10-1 AND 6-10-2</div> <div>Ds3</div>				<div>SPACING BETWEEN CHECK DAMS</div> <div>STONE CHECK DAM</div> <div>Geotextile</div> <div>Flow</div> <div>1' height</div> <div>2' x 3' SPACING</div> <div>ALL</div> <div>FOR VERY WET SITES, MAY CLING CHANNELS, BIG SPRINGS FROM LOCAL SOURCES, USE ALONG RIVER BANKS AND SHELTERLINES.</div> <div>GRASSES WELL ON COASTAL SAND DUNE AREAS, BUT PROVIDES WINTER COVER FOR WILD STARKS WITH SERICIA LESPEDEZA EXCEPT ON SAND DUNES.</div> <div>GRASSES SIMILAR TO TALL FESCUE.</div> <div>STONE CHECK DAM</div> <div>2014 MANUAL FOR EROSION AND SEDIMENT CONTROL (GREEN BOOK)</div> <div>Figure 6-10-1 AND 6-10-2</div> <div>Cd-S</div>				<div>CRUSHED STONE CONSTRUCTION EXIT</div> <div>EXIT DIAGRAM</div> <div>ENTRANCE ELEVATION</div> <div>NOTES: 1. 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Cool season grasses	First Second Maintenance	6-12-12 6-12-12 0-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 1/ 2/ 30																																																																																																																																																		
Cool season grasses and legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	0-50 lbs./ac. 1/ -																																																																																																																																																		
Ground covers	First Second Maintenance	10-10-10 10-10-10 10-10-10	300 lbs./ac. 3/ 1300 lbs./ac. 3/ 1000 lbs./ac.	- - -																																																																																																																																																		
Pine seedlings	First	20-10-5	one 21-gal pellet per seedling placed in the closing hole	-																																																																																																																																																		
Shrub Lespedeza	First Maintenance	0-10-10 0-10-10	700 lbs./ac. 700 lbs./ac. 4/	-																																																																																																																																																		
Temporary cover crops seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/																																																																																																																																																		
Warm season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 2/ 6/ 30 lbs./ac.																																																																																																																																																		
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