

# CONSTRUCTION PLANS

## HONEY RIDGE ROAD

## BRIDGE REPLACEMENT

FOR  
 EFFINGHAM COUNTY BOARD OF COMMISSIONERS  
 601 NORTH LAUREL STREET  
 SPRINGFIELD, GEORGIA 31329  
 TELEPHONE NO. (912) 754-2123  
 DESIGN ENGINEER TELEPHONE NO. (912) 445-0050



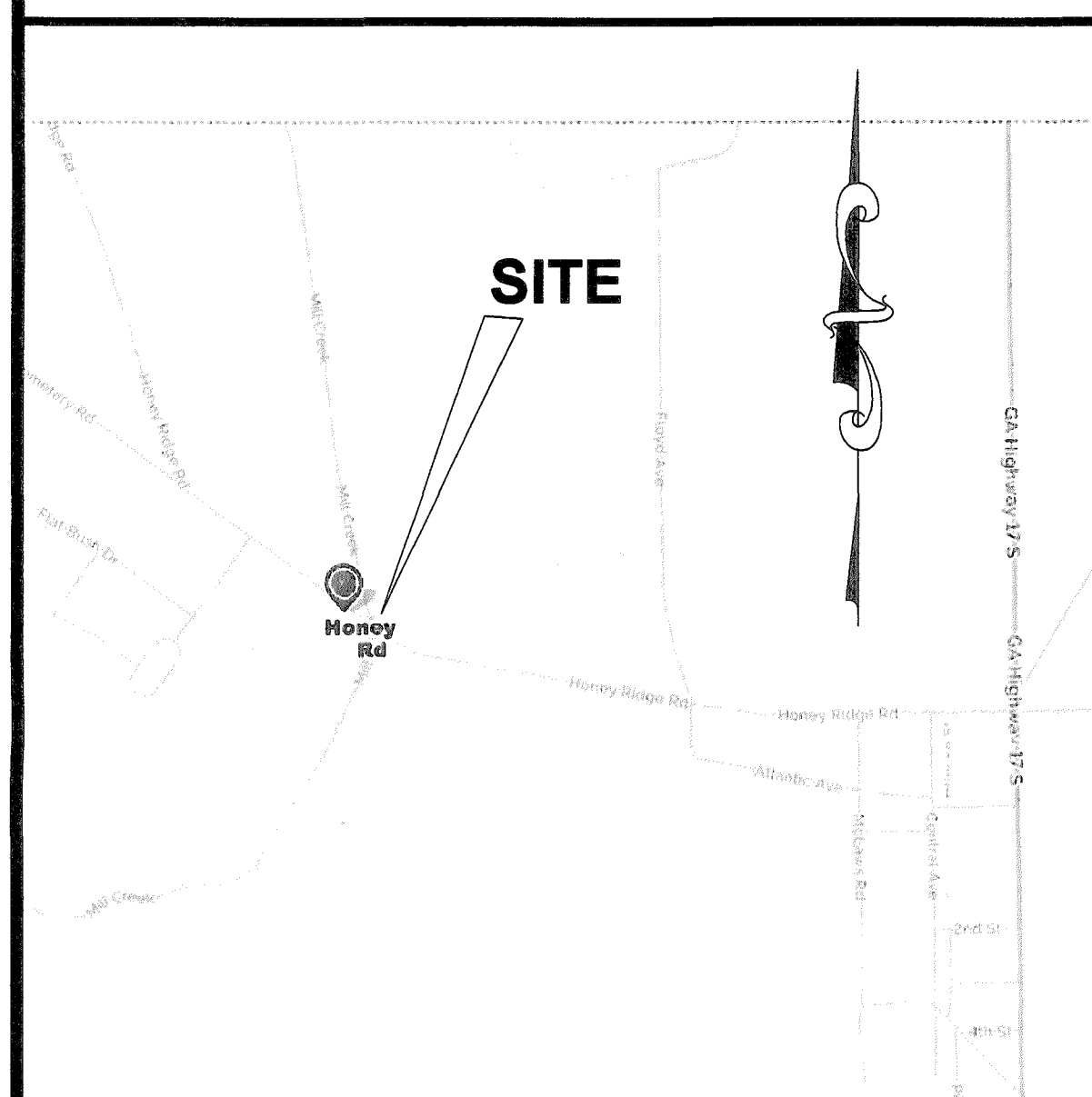
**AUGUST, 2018**

**CHAIRMAN AT LARGE  
 WESLEY CORBITT**

### COMMISSIONERS

DISTRICT 1  
 DISTRICT 2  
 DISTRICT 3  
 DISTRICT 4  
 DISTRICT 5

FORREST FLOYD  
 ROGER BURDETTE  
 JAMIE DELOACH  
 REGINALD "REGGIE" S. LOPER, SR.  
 PHIL KIEFFER



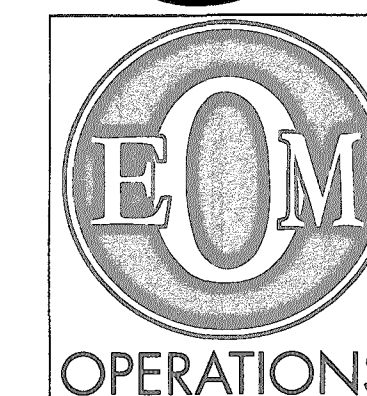
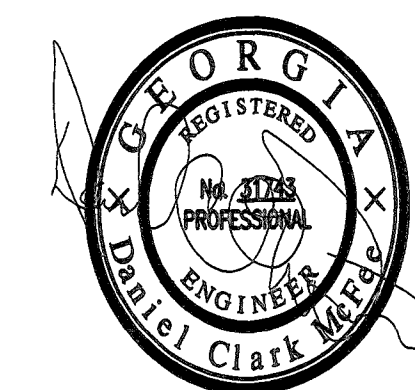
**VICINITY MAP**  
 NOT TO SCALE



Know what's below.  
 Call before you dig.

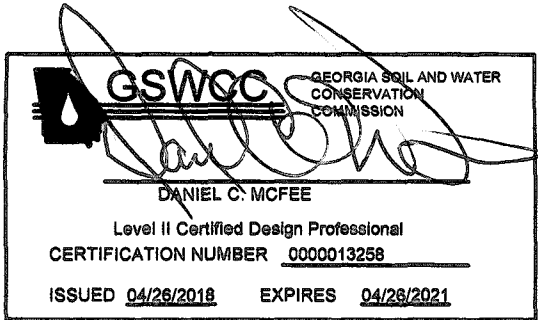
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GENERAL NOTES:

1. CONTRACTOR WILL BE REQUIRED TO ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE GOVERNMENTAL AGENCY IN CHARGE OF THE PROJECT.
2. CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND INSPECTIONS AS REQUIRED FOR APPROVAL OF THE WORK WITH THE GOVERNMENTAL AGENCY WITH JURISDICTION.
3. CONTRACTOR WILL BE RESPONSIBLE FOR COST OF AND COORDINATION WITH LOCAL UTILITY COMPANIES OR AGENCIES FOR RELOCATION OF, OR CONNECTION TO, ALL EXISTING UTILITIES INCLUDING POWER AND TELEPHONE POLES AND WIRES.
4. ALL ELEVATIONS ARE BASED ON MEAN SEA LEVEL DATUM. (NAVD 88)
5. REMOVAL AND REPLACEMENT OF UNSUITABLE SUBGRADE MATERIAL WILL BE PAID FOR ON A CUBIC YARD BASIS IN PLACE MEASUREMENT, AT SUCH AUTHORIZED PRICE PER CUBIC YARD, AS AUTHORIZED BY THE ENGINEER.
6. SUBGRADE WILL BE COMPACTED FOR A DEPTH OF 24" EXTENDING 24" BEYOND PAVEMENT EDGES, TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY AS MEASURED BY A.A.S.H.T.O. METHOD T-99. 9.
7. ALL DIMENSIONS ARE TO EXTERIOR FACE OF BUILDING, EDGE OF SURFACE COURSE OR BACK OF CURBING.
8. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
9. THE CONTRACTOR SHALL KEEP ACCURATE RECORDS FOR "AS BUILT" PURPOSES AND PROVIDE THIS INFORMATION TO THE ENGINEER AT THE COMPLETION OF THE PROJECT. IF THE CONTRACTOR FAILS TO FURNISH THIS INFORMATION, THE ENGINEER WILL OBTAIN THE NECESSARY INFORMATION AND CHARGE THE CONTRACTOR FOR THE SERVICES. THE ENGINEER WILL CHECK INFORMATION PROVIDED BY THE CONTRACTOR FOR ACCURACY. AS BUILT INFORMATION INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: ALL UTILITIES INCLUDING INVERTS, TOP ELEVATIONS, PIPE LENGTHS AND TYPE OF CONSTRUCTION MATERIAL; SPOT ELEVATIONS ON FORCE MAINS AND WATER LINES. THE DISTANCE OF THE CENTERLINE OF UTILITIES FROM A PERMANENT STRUCTURE. ALL VALVE MANHOLES AND VALVE BOXES SHALL BE LOCATED WITH RESPECT TO A PERMANENT STRUCTURE. GRADES SHALL BE CONFIRMED IN ROADS AND PARKING AREAS AS WELL AS SVALES TO SHOW DIRECTION OF STORMWATER FLOW. THE FINISHED FLOOR ELEVATION SHALL BE SHOWN ON ALL BUILDINGS. IF THE LANDSCAPING IS CHANGED IN ANY WAY AN AS BUILT OF THE LANDSCAPE PLAN IS TO BE SUBMITTED TO THE ENGINEER; AND ANY OTHER REQUIREMENT MADE BY THE LOCAL JURISDICTION.
10. ALL NEW DISTURBED AREAS WILL BE GRASSED BY SEEDING OR SPRIGGING IN ACCORDANCE WITH GA. D.O.T. STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
12. CONTRACTOR SHALL PROVIDE DUST CONTROL OF ALL DISTURBED AREAS BY THE USE OF WATER AND FAST GROWING, TEMPORARY VEGETATION ON ALL STOCKPILED SOILS.
13. CONTRACTOR WILL PROVIDE A CONSTRUCTION SCHEDULE INCLUDING ALL EROSION AND SEDIMENT CONTROL MEASURES.
14. CONTRACTOR SHALL PROVIDE CRUSHED STONE 6" THICK, 50' MIN. LONG BY 20' MIN. WIDE AT ALL CONSTRUCTION EXITS TO MINIMIZE TRANSPORT OF SOIL FROM SITE BY VEHICLE WHEELS.
15. TESTING - PROVIDE ALL TESTING AS REQUIRED IN THE SPECIFICATIONS. PROVIDE ENGINEER WITH COPY DIRECT FROM TESTING LAB.
16. CONTRACTOR SHALL MAINTAIN SITE ON A DAILY BASIS TO PROVIDE FOR POSITIVE DRAINAGE. CONTRACTOR, AT HIS COST, SHALL GRADE SITE AND PROVIDE NECESSARY TEMPORARY DRAINAGE SVALES TO INSURE STORM WATER DOES NOT POND ON SITE.
17. THE DETENTION BASINS SHALL BE CONSTRUCTED IN CONJUNCTION WITH CLEARING AND GRADING TO HELP PREVENT THE LOSS OF SEDIMENT FROM THE SITE. THE CONTRACTOR SHOULD CLEAN OUT ANY SEDIMENT DEPOSITED IN THE BASINS DURING THE CONSTRUCTION PERIOD SO THAT THE SPECIFIED WATER DEPTH AT NORMAL POOL IS MAINTAINED; THE CONTRACTOR MAY OVER EXCAVATE THE BASINS TO ACCOMPLISH THIS, IF DESIRED, AT HIS OWN EXPENSE AND WITH THE CONCURRENCE OF THE ENGINEER.
18. ANY STUMP HOLES OR OTHER DEPRESSIONS SHOULD BE CLEARED OF LOOSE MATERIAL AND DEBRIS AND SHOULD THEN BE BACKFILLED WITH APPROVED FILL. THE BACKFILL SHOULD BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.
19. ANY UTILITIES THAT UNDERLIE THE SITE SHOULD BE RELOCATED AND THE TRENCHES BACKFILLED WITH APPROVED SOIL. THE BACKFILL SHOULD BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.
20. THE SUBGRADE SHOULD BE PROOFROLLED WITH A LOADED DUMP TRUCK TO LOCATE UNSTABLE OR SOFT AREAS. THESE AREAS SHOULD THEN BE INVESTIGATED TO DETERMINE THE CAUSE OF THE INSTABILITY. IF DUE TO UNSUITABLE SOIL, SUCH AS HIGHLY ORGANIC SOILS OR SOFT CLAYS, THE AREA SHOULD BE UNDERCUT TO A FIRM SOIL AND REPLACED WITH APPROVED FILL COMPACTED IN SIX INCH LIFTS TO MINIMUM OF 95% OF THE SOILS MODIFIED PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM-D-1557. UNSUITABLE SOIL MATERIALS ARE DEFINED AS THOSE COMPLYING WITH ASTM D2487 SOIL CLASSIFICATION GROUPS ML, MH, CH, CL, OL AND PT. IF THE INSTABILITY IS DUE TO EXCESS MOISTURE IN OTHERWISE SUITABLE SOIL, THE AREA SHOULD BE DRAINED AND COMPACTED TO 95% OF THE SOILS MODIFIED PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM-D-1557. ANY FILL REQUIRED TO LEVEL OR RAISE THE SITE SHOULD THEN BE PLACED IN 6" THICK LOOSE LIFTS AND COMPACTED TO 95% OF THE SOILS MODIFIED PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM-D-1557. THE ENGINEER SHALL CERTIFY THE PROOF ROLLING PROCESS AND THE RESULTS OF THE PROOF ROLL.
21. ALL OF THE FILL FOR THIS PROJECT SHOULD CONSIST OF NON PLASTIC GRANULAR MATERIAL WITH A MAXIMUM OF 25% FINES PASSING THE NO. 200 SIEVE. THE FILL SHOULD BE FREE OF ORGANICS, ROOTS, OR OTHER DELETERIOUS MATERIALS. FILL CLASSIFIED AS SW, SP, SP-SM OR SM WITH A MAXIMUM OF 15% PASSING A NO. 200 SIEVE MAY BE ACCEPTABLE.
22. MOISTURE CONTENT SHALL BE AT OR BELOW OPTIMUM.
23. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE PER GADOT, M.U.T.C.D. AND THE LOCAL JURISDICTIONS SPECIFICATIONS.
24. ALL STANDARD HIGHWAY SIGNS AND POSTS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE PLANS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.



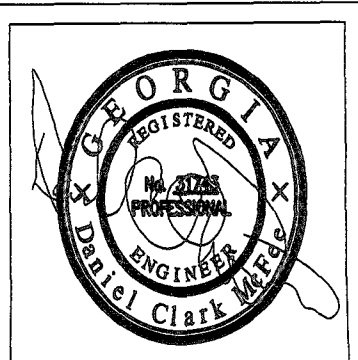
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UTILITY NOTES:

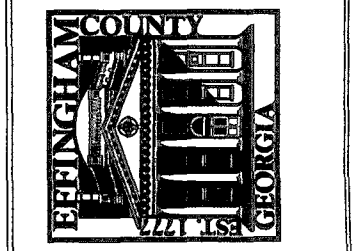
1. IN ADDITION TO THE SEDIMENTATION AND EROSION CONTROL MEASURES AS INDICATED ON THE PLANS, THE CONTRACTOR SHALL TAKE WHATEVER ACTIONS AS ARE NECESSARY TO ENSURE THAT ALL SEDIMENTATION IS CONFINED TO THE SITE AND THAT NO OFFSITE EROSION IS CAUSED BY THE WORK EITHER DIRECTLY OR INDIRECTLY.
2. HIGHLY CHLORINATED WATER USED IN THE DISINFECTION PROCESS SHALL BE DILUTED AND DISCHARGED IN ACCORDANCE WITH AWWA C651-99 "DISINFECTING WATER MAINS" SEC.4.5-4.5.2.
3. PIPE, FITTINGS, VALVES AND OTHER ACCESSORIES SHALL, UNLESS OTHERWISE DIRECTED, BE LOADED AT THE POINT OF DELIVERY, AND STORED WHERE THEY WILL BE PROTECTED AND WILL NOT BE HAZARDOUS TO TRAFFIC. THEY SHALL AT ALL TIMES BE HANDLED WITH CARE TO AVOID DAMAGE. THE INTERIOR OF ALL PIPE, FITTINGS AND OTHER ACCESSORIES SHALL BE KEPT FREE FROM DIRT AND OTHER FOREIGN MATTER AT ALL TIMES.
4. ANY DEFECTIVE, DAMAGED OR UNSOUND PIPE SHALL BE REJECTED. ALL FOREIGN MATTER OR DIRT SHALL BE REMOVED FROM THE INSIDE OF THE PIPE BEFORE IT IS LOWERED INTO ITS POSITION IN THE TRENCH AND IT SHALL BE KEPT CLEAN BY APPROVED MEANS DURING AND AFTER LAYING. CARE SHALL BE TAKEN TO PREVENT DIRT FROM ENTERING THE JOINT SPACE. AT TIMES WHEN PIPE LAYING IS NOT IN PROGRESS, THE OPEN ENDS OF THE PIPE SHALL BE CLOSED BY APPROVED MEANS AND NO TRENCH WATER SHALL BE PERMITTED TO ENTER THE PIPE.
5. CLEAN THE INTERIORS OF ALL PIPE BY WASHING OUT ALL DIRT BEFORE LAYING.
6. FLUSH THE NEW PIPE LINES UNTIL WATER RUNS CLEAR AT THE END OF ALL MAINS AND LATERALS. THIS SHOULD BE DONE AFTER THE PRESSURE TEST AND BEFORE DISINFECTION.
7. DURING INSTALLATION, WHEN PIPE LAYING IS NOT IN PROGRESS, A MECHANICAL JOINT PLUG OR CAP, OR APPROVED EQUAL, WILL BE USED TO FORM A WATER TIGHT SEAL AT BOTH ENDS OF THE LINE BEING LAID.
8. MAINTAIN A MINIMUM OF EIGHTEEN (18") INCH VERTICAL CLEARANCE BETWEEN THE WATER LATERAL AND THE STORM DRAINAGE.
9. ALL CONNECTIONS TO EXISTING MANHOLES SHALL BE DONE BY THE CORE DRILL METHOD.
10. THE CONTRACTOR IS RESPONSIBLE TO BRING PROPOSED MANHOLE TOPS TO GRADE. SET ALL MH TOPS 33" ABOVE FINISHED GRADE.
11. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CERTIFICATIONS OF BACKFLOW DEVICES TO THE ENGINEER.
12. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON THE PLANS AND ARE NOT NECESSARILY ACCURATE AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES, EXCEPT AS NOTED BELOW. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGED UTILITY FACILITIES OTHER THAN SERVICE LINES FROM STREET MAINS TO ABUTTING PROPERTY WHEN SUCH FACILITIES ARE NOT SHOWN ON THE PLANS AND THEIR EXISTENCE IS UNKNOWN TO THE CONTRACTOR PRIOR TO THE DAMAGES OCCURRING PROVIDING THE ENGINEER DETERMINES THE CONTRACTOR HAS OTHERWISE FULLY COMPLIED WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL CALL "CALL BEFORE YOU DIG" AT 811 TO INSURE PROPER LOCATIONS OF EXISTING UTILITIES.
13. ALL WATER USED FOR CONSTRUCTION SHALL BE METERED THROUGH AND APPROVED BACKFLOW PREVENTION DEVICE AND FIRE HYDRANT METER.
14. ALL TAPS ON A MAIN FOR SERVICE LATERALS SHALL BE MADE WITH AN ALL STAINLESS STEEL DOUBLE STRAP EPOXY COATED TAPPING SADDLE. THE SIZE OF THE SADDLE SHALL BE WATER MAIN DIAMETER C-900 + (NPT) NATIONAL PIPE THREAD.
15. ANY AND ALL UTILITY CROSSINGS FOR WATER MAINS BETWEEN STORM OR SEWER PIPING SHOULD BE ACCOMPLISHED BY USING OF 45° BENDS BOTH DOWN AND UP.
16. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICT WITH EXISTING UTILITIES NOT SHOWN ON THESE PLANS PRIOR TO LAYING ANY PIPE.
17. FIRE HYDRANTS SHALL BE AT LEAST 18" ABOVE FINISHED GRADE (MEASURED FROM BOTTOM OF 4-1/2" DISCHARGE TO FINISHED GRADE).
18. SEE MEP PLANS FOR CONTINUATION OF ALL UTILITIES. CIVIL INFORMATION TERMINATES 5' FROM BUILDING ENVELOPE.
19. CONTRACTOR TO COORDINATE TYPE AND INSTALLATION OF DOMESTIC AND/OR IRRIGATION WATER METERS, BACKFLOW PREVENTERS AND DETECTOR CHECK VALVES WITH UTILITY COMPANY.
20. ALL RELOCATED SERVICES TO BE INSTALLED PRIOR TO CONNECTION TO EXISTING SERVICE TO MINIMIZE THE TIME THE EXISTING BUILDING IS TO BE WITHOUT SERVICE. NOTIFY AND COORDINATE WITH OWNER.
21. ALL SANITARY SEWER PIPES SHALL MEET THE REQUIREMENTS OF ASTM D-3034, SDR 35. AND HAVE A MINIMUM COVER OF 36" FROM FINISHED GRADE.
22. WATER MAINS SHALL HAVE A MINIMUM OF 36" OF COVER FROM FINISHED GRADE.
23. AIR RELIEF VALVES SHALL BE INSTALLED OF ALL HIGH POINTS IN WATER MAINS AND FORCE MAINS WHERE AIR MAY ACCUMULATE. THESE LOCATION SHALL BE FIELD DETERMINED BY THE CONTRACTOR.
24. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES OR PROCEDURES UTILIZED BY THE CONTRACTOR, NOR FOR THE SAFETY OF PUBLIC OR CONTRACTOR'S EMPLOYEES OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
25. A CONTINUOUS RUN OF PLASTICIZED METALLIC TAPE SHALL BE INSTALLED ABOVE THE TOP OF PVC PIPE USED FOR GRAVITY SEWER AND FORCE MAINS AT APPROXIMATELY 30" BELOW FINISHED GRADE. THE TAPE SHALL BE SUITABLE FOR DETECTION WITH METAL PIPE LOCATION EQUIPMENT, COLOR CODED AND LABELED TO IDENTIFY CONTENTS OF THE PIPE AND BRIGHTLY COLORED TO CONTRAST WITH THE SOIL. IN ADDITION TO THE TAPE, A CONTINUOUS RUN OF TRACER WIRE SHALL BE ATTACHED TO THE PIPE AND CONNECTED TO MANHOLE RINGS. ON PIPE RUNS GREATER THAN 500', THE TRACER WIRE SHALL BE ATTACHED TO A 2" GALVANIZED PIPE WITH A 180 DEGREE BEND AT THE TOP, EXTENDING 36" ABOVE GRADE FOR CONNECTION TO LOCATOR EQUIPMENT. THE MAXIMUM DISTANCE BETWEEN 2" PIPE STUBS SHALL BE 500'.
26. ALL SANITARY SEWER LATERALS SHALL BE PROPERLY MARKED AT THE POINT WHERE LATERALS TERMINATE WITH PVC PIPE PAINTED GREEN. ADDITIONAL MARKINGS SHALL BE STAMPED IN THE CURB OR MARKED ON THE EDGE OF PAVING WITH AN APPROVED PERMANENT MARKER CAPABLE OF BEING LOCATED BY A MAGNETIC LOCATOR, SUCH AS A NAIL WITH CAP, IF NO CURB PRESENT. LATERALS SHALL BE MARKED WITH MARKING TAPE AND TRACER WIRE AS DESCRIBED ABOVE UNDER ITEM 19.
27. A CONTINUOUS RUN OF PLASTICIZED METALLIC TAPE SHALL BE INSTALLED ABOVE THE TOP OF PVC PIPE USED FOR WATER MAINS AT APPROXIMATELY 18" TO 24" BELOW FINISHED GRADE. THE TAPE SHALL BE SUITABLE FOR DETECTION WITH METAL PIPE LOCATION EQUIPMENT, COLOR CODED AND LABELED TO IDENTIFY CONTENTS OF THE PIPE AND BRIGHTLY COLORED TO CONTRAST WITH THE SOIL. IN ADDITION TO THE TAPE, A CONTINUOUS RUN OF TRACER WIRE SHALL BE ATTACHED TO THE PIPE AND CONNECTED TO CURB STOPS AND BROUGHT TO THE TOP OF THE VALVE. ON PIPE RUNS GREATER THAN 500', THE TRACER WIRE SHALL BE ATTACHED TO A 2" GALVANIZED PIPE WITH A 180 DEGREE BEND AT THE TOP, EXTENDING 36" ABOVE GRADE FOR CONNECTION TO LOCATOR EQUIPMENT. THE MAXIMUM DISTANCE BETWEEN 2" PIPE STUBS SHALL BE 500'.
28. ALL WATER SERVICES SHALL BE PROPERLY MARKED ABOVE GROUND WITH PVC PIPE PAINTED BLUE. ADDITIONAL MARKINGS SHALL BE STAMPED IN THE CURB OR MARKED ON THE EDGE OF PAVING WITH AN APPROVED PERMANENT MARKER CAPABLE OF BEING LOCATED BY A MAGNETIC LOCATOR, SUCH AS A NAIL WITH CAP, IF NO CURB PRESENT. LATERALS SHALL BE MARKED WITH MARKING TAPE AND TRACER WIRE AS DESCRIBED ABOVE UNDER ITEM 21.
29. SEWER SERVICE LATERALS SHALL BE INSTALLED AT RIGHT ANGLES.
30. THE TENNIS BALL TEST ON SANITARY LATERALS WILL NEED TO BE CONDUCTED TWICE, ONCE BEFORE THE INSTALLATION OF THE DRY UTILITIES AND ONCE AFTER ALL DRY UTILITIES HAVE BEEN INSTALLED. THE SANITARY SEWER LATERALS MUST PASS THE TENNIS BALL TEST BEFORE FINAL ACCEPTANCE WILL BE GRANTED.
31. ALL SANITARY SEWER SERVICE LATERALS WILL BE REQUIRED TO BE CAPPED.

LEGEND

EXISTING	PROPOSED	
CONTROL NAIL		
IRON PIPE		
IRON REBAR		
CONCRETE MONUMENT		
RIGHT-OF-WAY MARKER		
BENCHMARK		
RAILROAD CROSSING ARM		
PIPES		
DRAINAGE MANHOLE		
GRATE INLET		
FLARED END SECTION		
INVERT ELEVATION		IE 12.00
CURB INLET TYPE A		
CURB INLET TYPE B		
CURB INLET TYPE C		
RIP RAP		
BACKFLOW PREVENTER		
BLOW-OFF		
FIRE HYDRANT		
HOSE BIBB (SPIGOT)		
WELL		
WATER LINE MARKER		
WATER METER		
WATER MANHOLE		
WATER VALVE		
POWER POLE		
GUY POLE		
LIGHT POLE		
GROUND LIGHT		
ELECTRICAL LINE MARKER		
ELECTRICAL MANHOLE		
ELECTRICAL CONTROL BOX		
ELECTRICAL OUTLET BOX		
ELECTRICAL SERVICE METER		
ELECTRICAL TRANSFORMER		
GAS LINE MARKER		
GAS METER		
TELEPHONE PEDESTAL		
TELEPHONE LINE MARKER		
CLEANOUT		
CENTER SANITARY MANHOLE		
GREASE TRAP		



EFFINGHAM COUNTY  
BOARD OF COMMISSIONERS  
ENGINEERING DEPARTMENT  
601 NORTH LAUREL STREET  
SPRINGFIELD, GA 31329  
PH: (912) 754-8060  
FX: (912) 754-9859



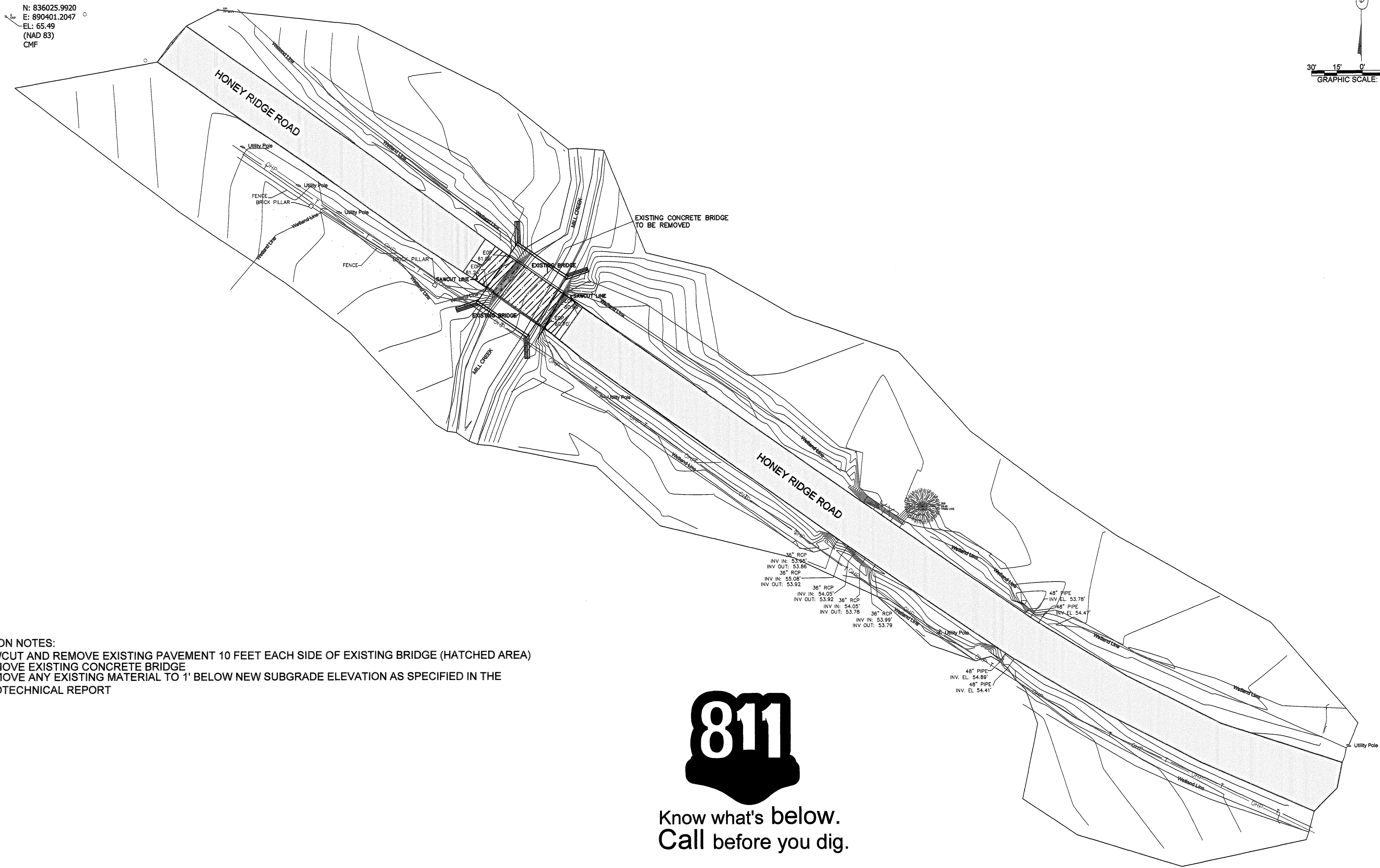
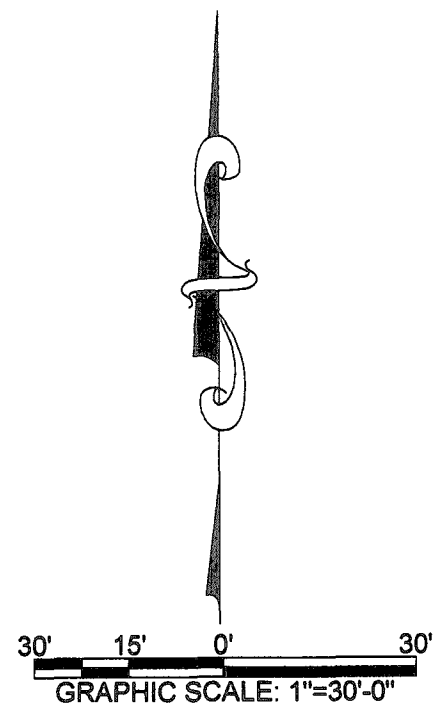
REVISIONS	DATE			
	NUMBER			

DESIGNED BY DCM	CHECKED BY LCA	DATE 08/24/2018	JOB NO.	SCALE	NONE
DRAWN					

HONEY RIDGE ROAD BRIDGE REPLACEMENT	PREPARED FOR	EFFINGHAM COUNTY BOARD OF COMMISSIONERS	GENERAL NOTES & LEGEND
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E: 890401.2047  
EL: 65.49  
(NAD 83)  
CHF

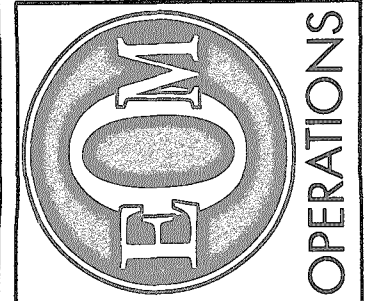
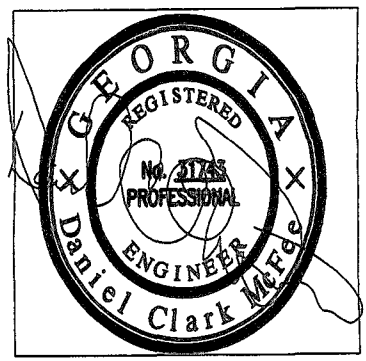


DEMOLITION NOTES:

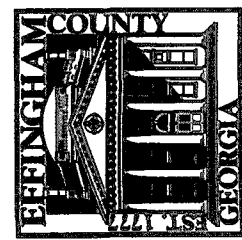
1. SAWCUT AND REMOVE EXISTING PAVEMENT 10 FEET EACH SIDE OF EXISTING BRIDGE (HATCHED AREA)
2. REMOVE EXISTING CONCRETE BRIDGE
3. REMOVE ANY EXISTING MATERIAL TO 1' BELOW NEW SUBGRADE ELEVATION AS SPECIFIED IN THE GEOTECHNICAL REPORT



Know what's below.  
Call before you dig.



EFFINGHAM COUNTY  
BOARD OF COMMISSIONERS  
ENGINEERING DEPARTMENT  
308 HIGHWAY 119 SOUTH  
SPRINGFIELD, GA 31329  
PH: (912) 754-2141  
FX: (912) 754-9859



REVISIONS	DATE	
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DESIGNED BY: DCM	DRAWN BY: DCM	CHECKED BY: LCA	DATE: 08/24/2018	JOB NO.	SCALE: 1"=30'
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HONEY RIDGE ROAD BRIDGE REPLACEMENT  
PREPARED FOR:  
EFFINGHAM COUNTY BOARD OF COMMISSIONERS  
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NUMBER

3 OF 12

CP 2  
BM N: 836025.9920 CP 4  
E: 890401.2047  
EL: 65.49  
(NAD 83)  
CMF

CP 132  
CP 131

HONEY RIDGE ROAD

UTILITY POLE

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PROPOSED TRIPLE 10' X 5' BOX CULVERT  
FLOW LINE CULVERT 51.50

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SPLASH PAD

6" 3" RIP RAP  
SPLASH PAD

6" 3" RIP RAP  
SPLASH PAD

6" 3" RIP RAP  
SPLASH PAD

6" 3" RIP RAP  
SPLASH PAD

6" 3" RIP RAP  
SPLASH PAD

6" 3" RIP RAP  
SPLASH PAD

6" 3" RIP RAP  
SPLASH PAD

HONEY RIDGE ROAD

HONEY RIDGE ROAD

HONEY RIDGE ROAD

HONEY RIDGE ROAD

HONEY RIDGE ROAD

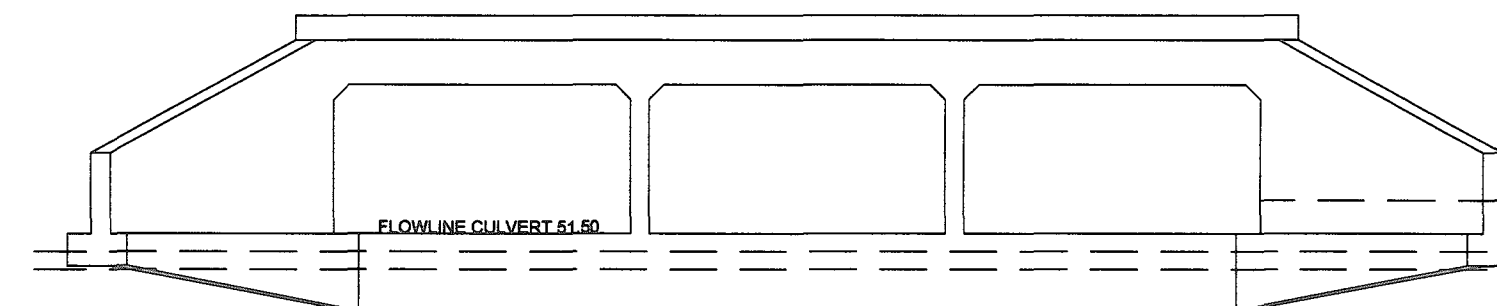
HONEY RIDGE ROAD

HONEY RIDGE ROAD

HONEY RIDGE ROAD

HONEY RIDGE ROAD

HONEY RIDGE ROAD



CROSS-SECTION A - A  
TRIPLE 10' X 5' BOX CULVERT  
NOT TO SCALE  
SEE SHEETS 6 OF 12  
AND 7 OF 12 FOR  
DIMENSIONS AND  
SPECIFICATIONS

24' BACKFILL WITH 57 STONE TOP  
53.50  
12' TYPE II FOUNDATION BACKFILL (57 STONE)  
NON-WOVEN NEEDLE PUNCHED GEO FABRIC  
ELEVATION OF SUBGRADE 49.50  
SEE TERRACON CONSULTANTS, INC.  
REPORT IN THE ITS FOR  
SUBSURFACE INFORMATION

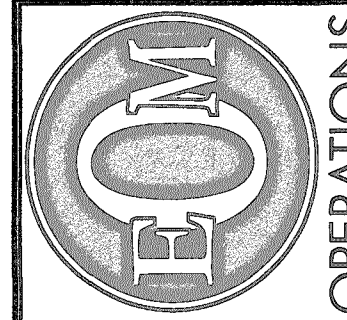
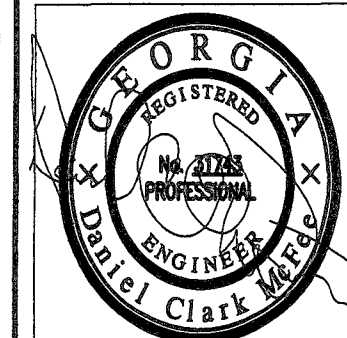
30' 15' 0' 30'  
GRAPHIC SCALE: 1"=30'-0"

CONTROL POINTS				
POINT NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION
2	CONC MON FND	836025.99	890401.20	65.49
132	PK NAIL	836027.10	890444.22	62.06
4	PK NAIL	836001.70	890478.50	61.59
131	REBAR	836029.65	890518.39	
5	CENTER OF BRIDGE	835875.04	890685.69	61.30

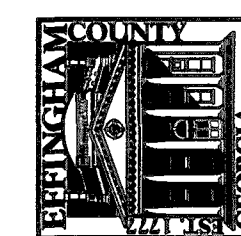
NOTE:  
LOCATION OF THE EXISTING UTILITIES  
ARE APPROXIMATE. FIELD VERIFY BEFORE DIGGING.



Know what's below.  
Call before you dig.



EFFINGHAM COUNTY  
BOARD OF COMMISSIONERS  
ENGINEERING DEPARTMENT  
PH: (912) 754-2141  
FX: (912) 754-9859  
309 HIGHWAY 118 SOUTH  
SPRINGFIELD, GA 31329



REVISIONS	DATE				
	NUMBER				

DESIGNED BY DCM	CHECKED BY LCA	DATE 08/24/2016	JOB NO.	SCALE 1"=30'

HONEY RIDGE ROAD BRIDGE REPLACEMENT  
PREPARED FOR:  
EFFINGHAM COUNTY BOARD OF COMMISSIONERS

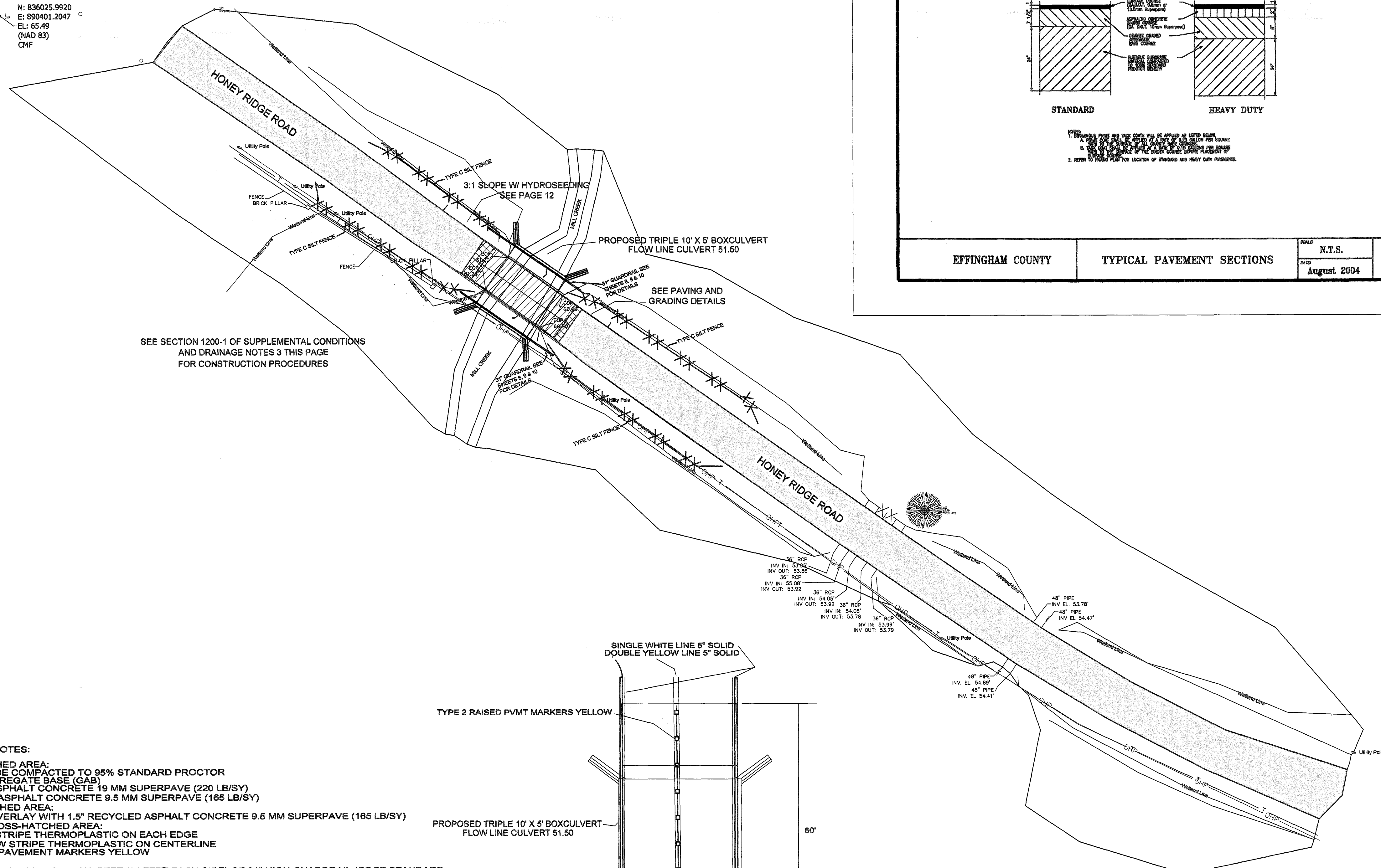
SITE PLAN

SHEET NUMBER

4 OF 12



N: 836025.9920  
E: 890401.2047  
EL: 65.49  
(NAD 83)  
CMF



SEE SECTION 1200-1 OF SUPPLEMENTAL CONDITIONS  
AND DRAINAGE NOTES 3 THIS PAGE  
FOR CONSTRUCTION PROCEDURES

PAVING AND GRADING NOTES:

- SINGLE CROSS-HATCHED AREA:
  - SUBGRADE TO BE COMPACTED TO 95% STANDARD PROCTOR
  - 8" GRADED AGGREGATE BASE (GAB)
  - 2" RECYCLED ASPHALT CONCRETE 19 MM SUPERPAVE (220 LB/SY)
  - 1.5" RECYCLED ASPHALT CONCRETE 9.5 MM SUPERPAVE (165 LB/SY)
- DOUBLE CROSS-HATCHED AREA:
  - MILL 1.5" AND OVERLAY WITH 1.5" RECYCLED ASPHALT CONCRETE 9.5 MM SUPERPAVE (165 LB/SY)
- SINGLE & DOUBLE CROSS-HATCHED AREA:
  - SINGLE WHITE STRIPE THERMOPLASTIC ON EACH EDGE
  - DOUBLE YELLOW STRIPE THERMOPLASTIC ON CENTERLINE
  - TYPE 2 RAISED PAVEMENT MARKERS YELLOW

GUARDRAIL NOTES:

- CONTRACTOR SHALL INSTALL 168 LINEAL FEET (84 FEET EACH SIDE) OF 31" HIGH GUARDRAIL (GDOT STANDARD SPECIFICATIONS 4380, 4381 & 4383)
- ANCHORAGE AT EACH END SHALL BE GDOT STANDARD SPECIFICATIONS 4383 WITH A PRE-CURVED SECTION ON THE TRAFFIC END
- GUARDRAIL POSTS SHALL BE GDOT STANDARD SPECIFICATIONS 4381.

DRAINAGE NOTES:

- EROSION AND SEDIMENTATION WILL BE ACCOMPLISHED USING 500 LINEAL FEET OF CLASS C SILT FENCE
- SEDIMENT STORAGE WILL BE IN THE DRAINAGE SUMP IN THE WORK AREA
- A DIKE WILL BE CONSTRUCTED BY THE CONTRACTOR TO KEEP THE WORK AREA DRY
  - CONTRACTOR WILL SUBMIT THE DESIGN OF THE DIKE TO THE ENGINEER FOR APPROVAL

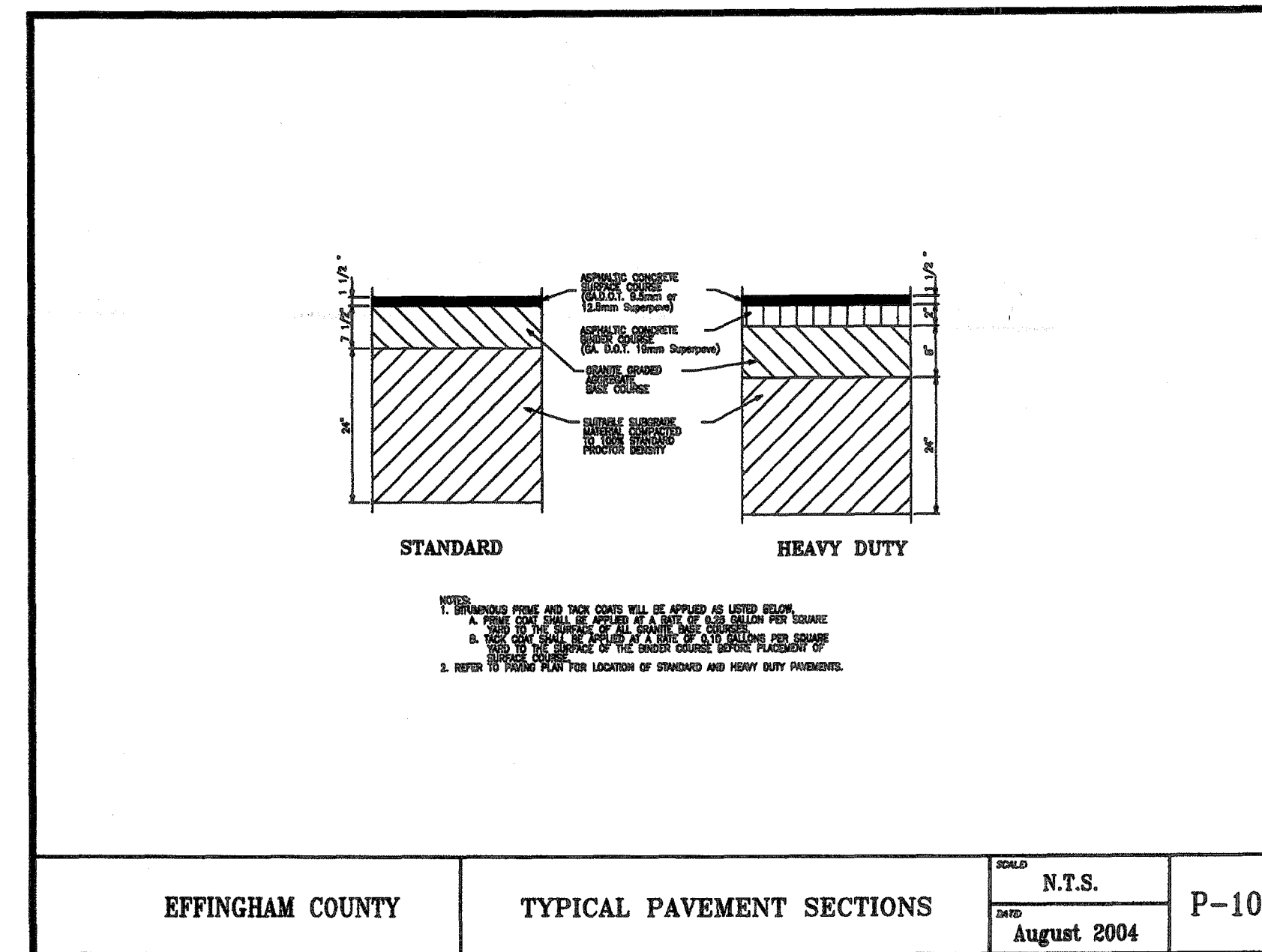
31" HIGH GUARDRAIL (SEE GUARDRAIL NOTES)

SINGLE WHITE LINE 5" SOLID  
DOUBLE YELLOW LINE 5" SOLID

TYPE 2 RAISED PVMT MARKERS YELLOW

PROPOSED TRIPLE 10' X 5' BOXCULVERT  
FLOW LINE CULVERT 51.50

BOX CULVERT DETAIL  
NTS

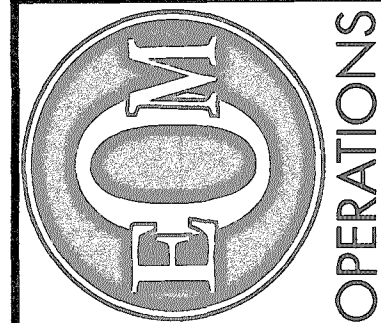
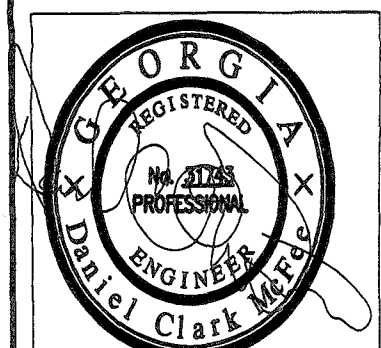


30' 15' 0' 30'  
GRAPHIC SCALE: 1"=30'-0"

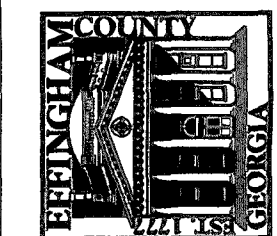


Know what's below.  
Call before you dig.

GSWCO  
GEORGIA SOIL AND WATER  
CONSERVATION  
COMMISSION  
DANIEL C. MCPHEE, PE  
Level II Certified Design Professional  
CERTIFICATION NUMBER 0000012258  
ISSUED 04/28/2018 EXPIRES 04/28/2021



EFFINGHAM COUNTY  
BOARD OF COMMISSIONERS  
ENGINEERING DEPARTMENT  
308 HIGHWAY 119 SOUTH  
SPRINGFIELD, GA 31329  
PH: (912) 754-2141  
FX: (912) 754-3669



REVISIONS	DATE	
	NUMBER	

DESIGNED BY: DCM	CHECKED BY: LCA
DRAWN BY: DCM	DATE: 08/24/2018
JOB NO.	SCALE: 1"=30'

HONEY RIDGE ROAD BRIDGE REPLACEMENT  
PREPARED FOR:  
EFFINGHAM COUNTY BOARD OF COMMISSIONERS  
PAVING, GRADING AND DRAINAGE PLAN

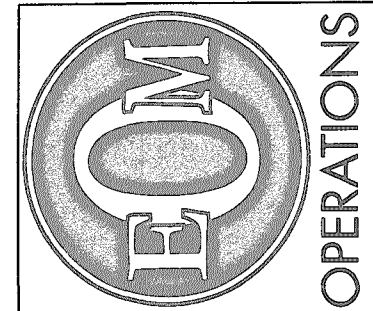
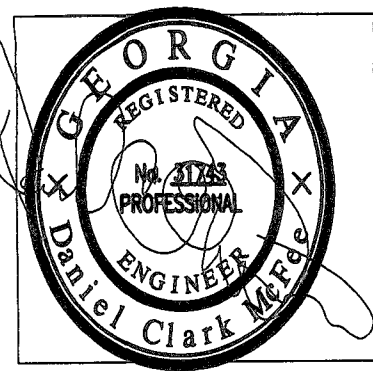
SHEET NUMBER

5 OF 12









EFFINGHAM COUNTY  
BOARD OF COMMISSIONERS  
ENGINEERING DEPARTMENT  
601 NORTH LAUREL STREET  
SPRINGFIELD, GA 31329  
PH: (912) 754-0800  
FX: (912) 754-0809



REVISIONS		DATE
NUMBER		

DESIGNED BY	DCM
DRAWN BY	DCM
CHECKED BY	LCA
DATE	08/24/2018
JOB NO.	
SCALE	NONE

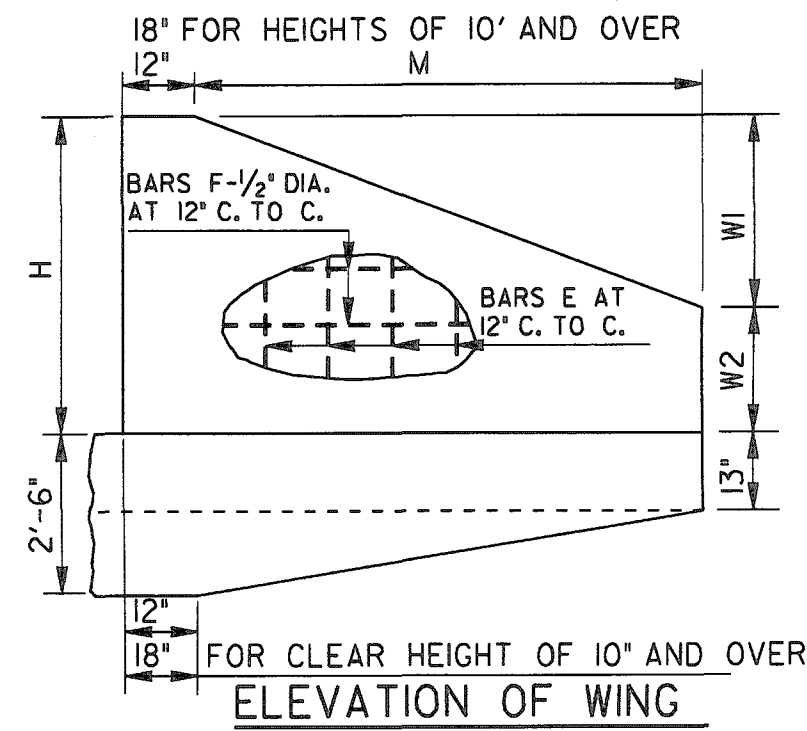
HONEY RIDGE ROAD BRIDGE REPLACEMENT  
PREPARED FOR  
EFFINGHAM COUNTY BOARD OF COMMISSIONERS  
WINGWALLS AND PARAPET

SHEET NUMBER

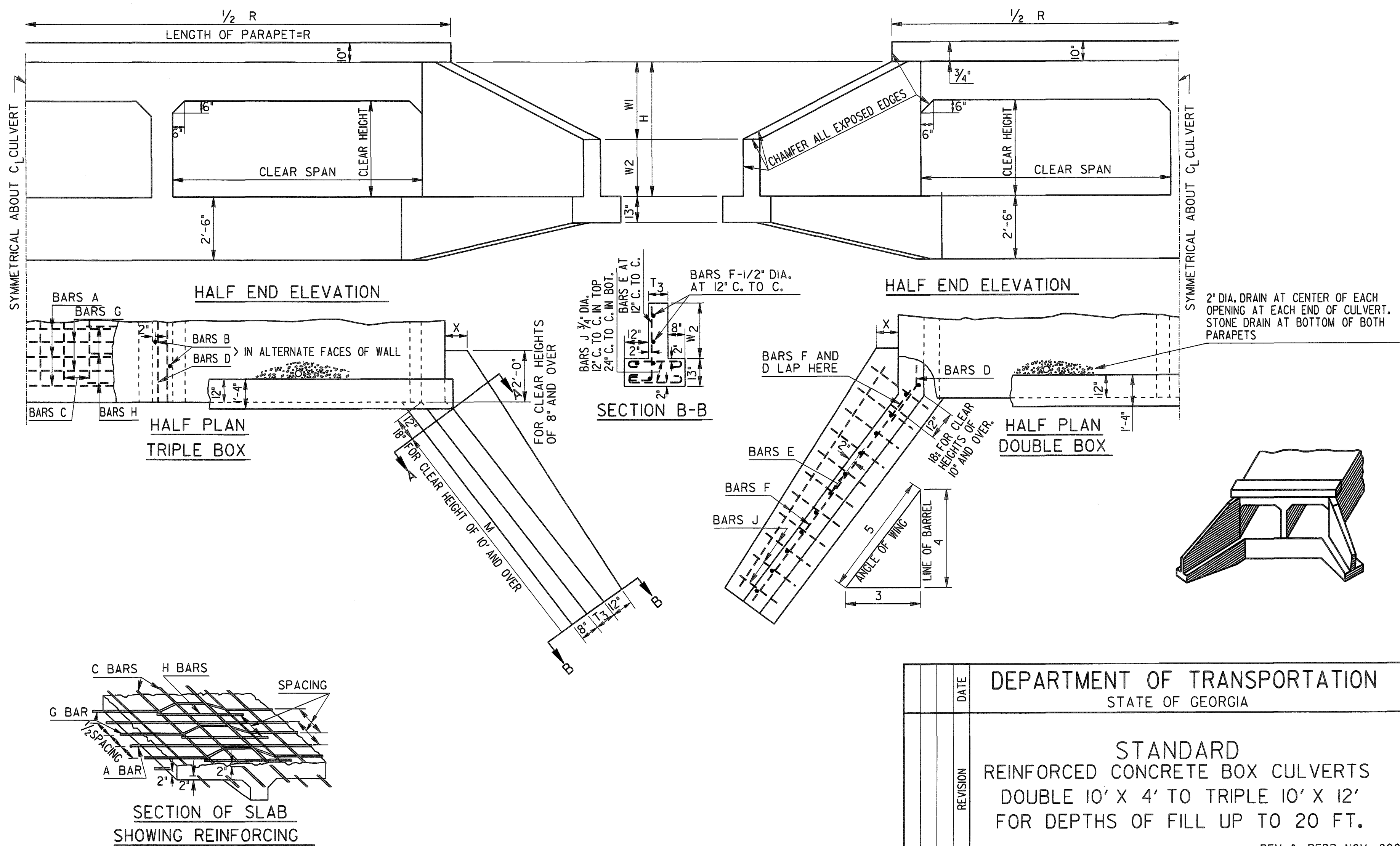
7 OF 12

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DOUBLES & TRIPLES		CLEAR SPAN CLEAR HEIGHT		WINGWALLS AND PARAPETS																												CLEAR HEIGHT CLEAR SPAN	DOUBLES & TRIPLES		
				STEEL REINFORCEMENT																															
				SIZE	E BARS AT 12" C.C.												$\frac{1}{2}$ " DIA. F BARS AT 12" C. TO C.								J BARS $\frac{3}{4}$ " DIA. 12" C. TO C. IN TOP OF FOOTING 24" C. TO C. IN BOTTOM OF FOOTING									K $\frac{5}{8}$ " DIA.	
O'	4'	$\frac{5}{8}$ " DIA.	NUMBER	8	8	8	8	8	4					20	4	4	4													14	14	4'	10'		
			LENGTH	7'-8"	7'-1"	6'-6"	5'-10"	5'-3"	5'-0"					10'-8"	8'-11"	5'-8"	2'-4"														22'-8"			33'-6"	
	5'	$\frac{5}{8}$ " DIA.	NUMBER	8	8		8	8	8	4				20	4	4	4		4											14	14	5'			
			LENGTH	8'-8"	8'-1"	7'-5"	6'-10"	6'-2"	5'-6"	5'-2"				12'-2"	11'-8"	8'-6"	5'-4"	2'-3"												23'-0"	33'-10"				
	6'	$\frac{5}{8}$ " DIA.	NUMBER	8	8	8	8	8	8	8				24	4	4	4	4												14	14	6'			
			LENGTH	9'-8"	9'-0"	8'-4"	7'-9"	7'-1"	6'-5"	5'-9"				13'-8"	11'-4"	8'-4"	5'-3"	2'-2"												23'-0"	33'-10"				
	7'	$\frac{5}{8}$ " DIA.	NUMBER	8	8	8	8	8	8	4				24	4	4	4	4												14	14	7'			
			LENGTH	10'-8"	10'-0"	9'-4"	8'-8"	8'-0"	7'-4"	6'-8"	6'-4"			14'-8"	14'-2"	11'-3"	8'-2"	5'-3"	2'-3"											23'-4"	34'-2"				
	8'	$\frac{3}{4}$ " DIA.	NUMBER				8	8	8	8	8	4		28	4	4	4	4	4											14	14	8'			
			LENGTH				10'-0"	9'-3"	8'-6"	7'-8"	6'-10"	6'-8"			16'-2"	14'-0"	11'-1"	8'-1"	5'-2"	2'-2"									4'-7"	4'-4"	4'-1"			23'-6"	34'-6"
	9'	$\frac{3}{4}$ " DIA.	NUMBER	8	8	8	8	8	8	8	8	8		28	4	4	4	4	4	4									20	16	24	24		24	9'
			LENGTH	13'-11"	13'-1"	12'-3"	11'-4"	10'-7"	9'-9"	8'-11"	8'-1"	7'-3"			17'-8"	16'-7"	13'-9"	10'-10"	7'-11"	5'-1"	2'-2"							5'-1"	4'-10"	4'-7"	4'-4"	4'-0"		23'-8"	
10'	$\frac{7}{8}$ " DIA.	NUMBER	8	8		8	8	8	8	8	8		32	4	4	4	4	4	4								24	20	16	20	16	24	10'		
		LENGTH	15'-6"	14'-9"	13'-11"	13'-0"	12'-2"	11'-4"	10'-5"	9'-7"	8'-8"	7'-10"			19'-2"	17'-0"	14'-1"	11'-3"	8'-5"	5'-7"	2'-8"						5'-4"	5'-1"	4'-10"	4'-7"	4'-4"	4'-0"		24'-0"	35'-0"
11'	$\frac{7}{8}$ " DIA.	NUMBER	8	8	8	8	8	8	8	8	8	4	32	4	4	4	4	4	4	4	4						12	24	12	20	12	16	12	20	11'
		LENGTH	16'-7"	16'-2"	15'-3"	14'-4"	13'-5"	12'-7"	11'-8"	10'-8"	9'-10"	8'-11"	8'-6"		20'-8"	19'-7"	16'-10"	14'-0"	11'-2"	8'-4"	5'-6"	2'-8"	5'-10"	5'-7"	5'-4"	5'-1"	4'-10"	4'-7"	4'-4"	4'-1"	24'-0"	35'-0"			
12'	1" DIA.	NUMBER	16	8	8	8	8	8	8	8	8	4	36	4	4	4	4	4	4	4	4						24	32	28	12	12	12	8	12'	
		LENGTH	17'-9"	16'-9"	15'-10"	14'-11"	14'-0"	13'-0"	12'-1"	11'-2"	10'-3"	9'-3"	8'-9"		22'-2"	19'-6"	16'-8"	13'-10"	11'-1"	8'-3"	5'-5"	2'-7"	6'-1"	5'-2"	5'-1"	4'-10"	4'-7"	4'-4"	4'-1"	3'-10"	24'-3"	35'-3"			



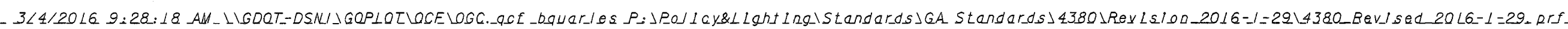
DOUBLES & TRIPLES		CLEAR SPAN CLEAR HEIGHT		DIMENSIONS										CLEAR HEIGHT CLEAR SPAN	
				FOR ALL DESIGNS											
				DESIGN 1		DESIGN 2									
		H	W <sub>1</sub>	H	W <sub>1</sub>	M	W <sub>2</sub>	R DOUBLE	R TRIPLE	T <sub>3</sub>	X				
O'	4'	5'-6"	3'-4"	5'-8½"	3'-6½"	10'-0"	2'-2"	23'-0"	33'-10"	10"	0	4'	DOUBLES & TRIPLES		
	5'	6'-6"	3'-9½"	6'-8½"	4'-0"	11'-6"	2'-8½"	23'-0"	33'-10"	10"	0	5'			
	6'	7'-6"	4'-4½"	7'-8½"	4'-7"	13'-0"	3'-1½"	23'-4"	34'-2"	10"	0	6'			
	7'	8'-6½"	4'-10"	8'-9"	5'-0½"	14'-0"	3'-8½"	23'-4"	34'-2"	10"	0	7'			
	8'	9'-6½"	5'-5"	9'-9"	5'-7½"	15'-6"	4'-1½"	23'-6"	34'-6"	12"	1'-0"	8'			
	9'	10'-6½"	6'-0½"	10'-9½"	6'-3½"	17'-0"	4'-6"	23'-10"	34'-10"	12"	1'-6"	9'			
	10'	11'-7"	6'-5½"	11'-9½"	6'-8"	18'-0"	5'-1½"	24'-2"	35'-2"	12"	2'-0"	10'			
	11'	12'-7"	7'-1"	12'-10"	7'-4"	19'-6"	5'-6"	24'-2"	35'-2"	12"	2'-6"	11'			
	12'	13'-7"	7'-8"	13'-10"	7'-11"	21'-0"	5'-11"	24'-4"	35'-4"	12"	3'-0"	12'			



DEPARTMENT OF TRANSPORTATION		STATE OF GEORGIA	
STANDARD		REINFORCED CONCRETE BOX CULVERTS	
DOUBLE 10' X 4' TO TRIPLE 10' X 12'		FOR DEPTHS OF FILL UP TO 20 FT.	
NO SCALE		REV. & REDR. NOV., 2001	
BY	DES.	(SUBMITTED)	NUMBER 2327 SHEET 2 OF 2
	DRW.	STATE ROAD & AIRPORT DESIGN ENGINEER	
	TRA.	(APPROVED)	
	CHK.	CHIEF ENGINEER	

NOTE:  
SEE BARREL DESIGN 1, TRIPLE 10', CLEAR HEIGHT 5'

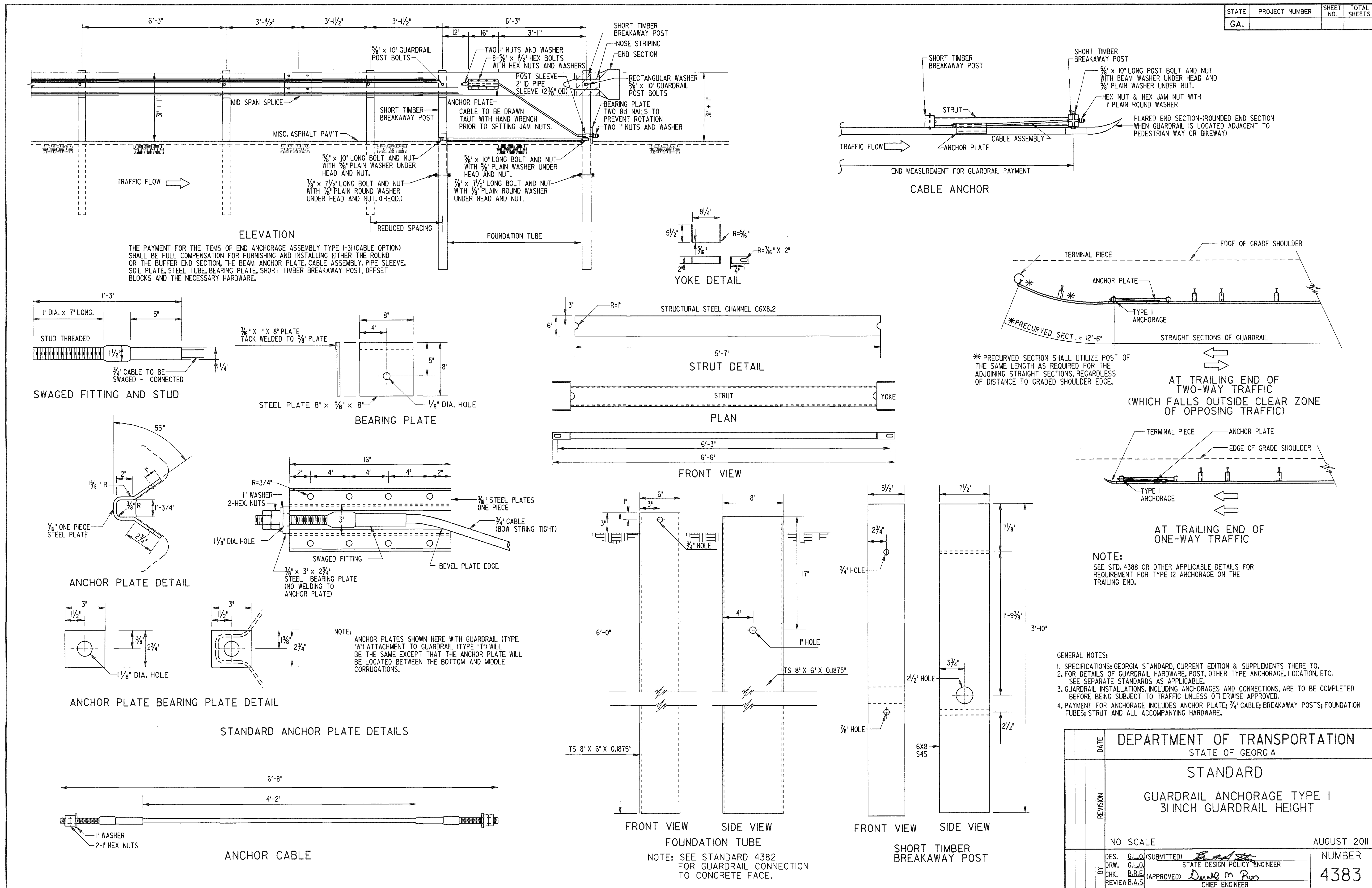




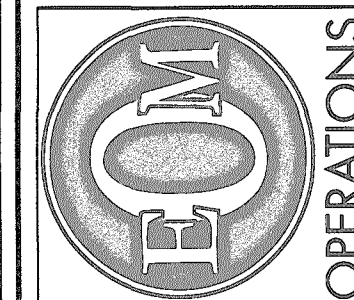
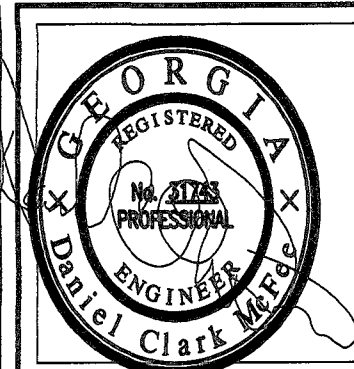


12/7/2011 8:05:15 AM \\GDOT-DSN\GPOLOT\QCF\GO\_Klp8000.qcf tcox C:\tpc\31inch guardrail\new 31 inch guardrail\files\4383.pdf GO-R06

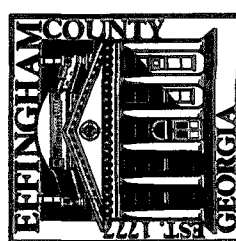
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12/7/2011 8:05:15 AM \\GDOT-DSN\GPOLOT\QCF\GO\_Klp8000.qcf tcox C:\tpc\31inch guardrail\new 31 inch guardrail\files\4383.pdf



EFFINGHAM COUNTY  
BOARD OF COMMISSIONERS  
ENGINEERING DEPARTMENT  
PH: (912) 754-8080  
801 NORTH LAUREL STREET  
SPRINGFIELD, GA 31329  
FX: (912) 754-9959



REVISIONS	DATE	
NUMBER		

DESIGNED BY DCM	CHECKED BY LCA	DATE	JOB NO.	SCALE	NONE
		08/24/2018			

HONEY RIDGE ROAD BRIDGE REPLACEMENT  
PREPARED FOR:  
EFFINGHAM COUNTY BOARD OF COMMISSIONERS  
GUARDRAIL ANCHORAGE TYPE I

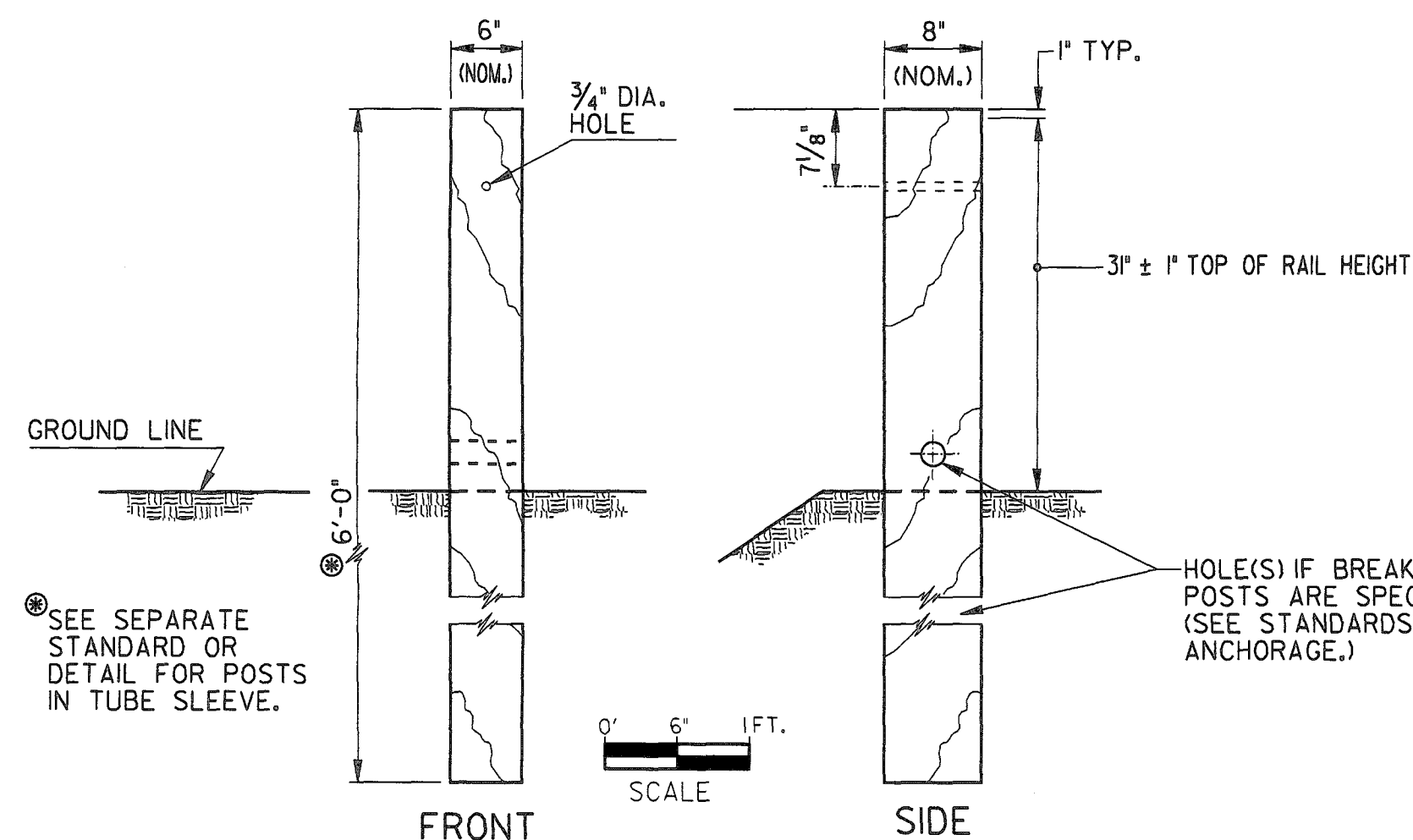
SHEET NUMBER

9 OF 12

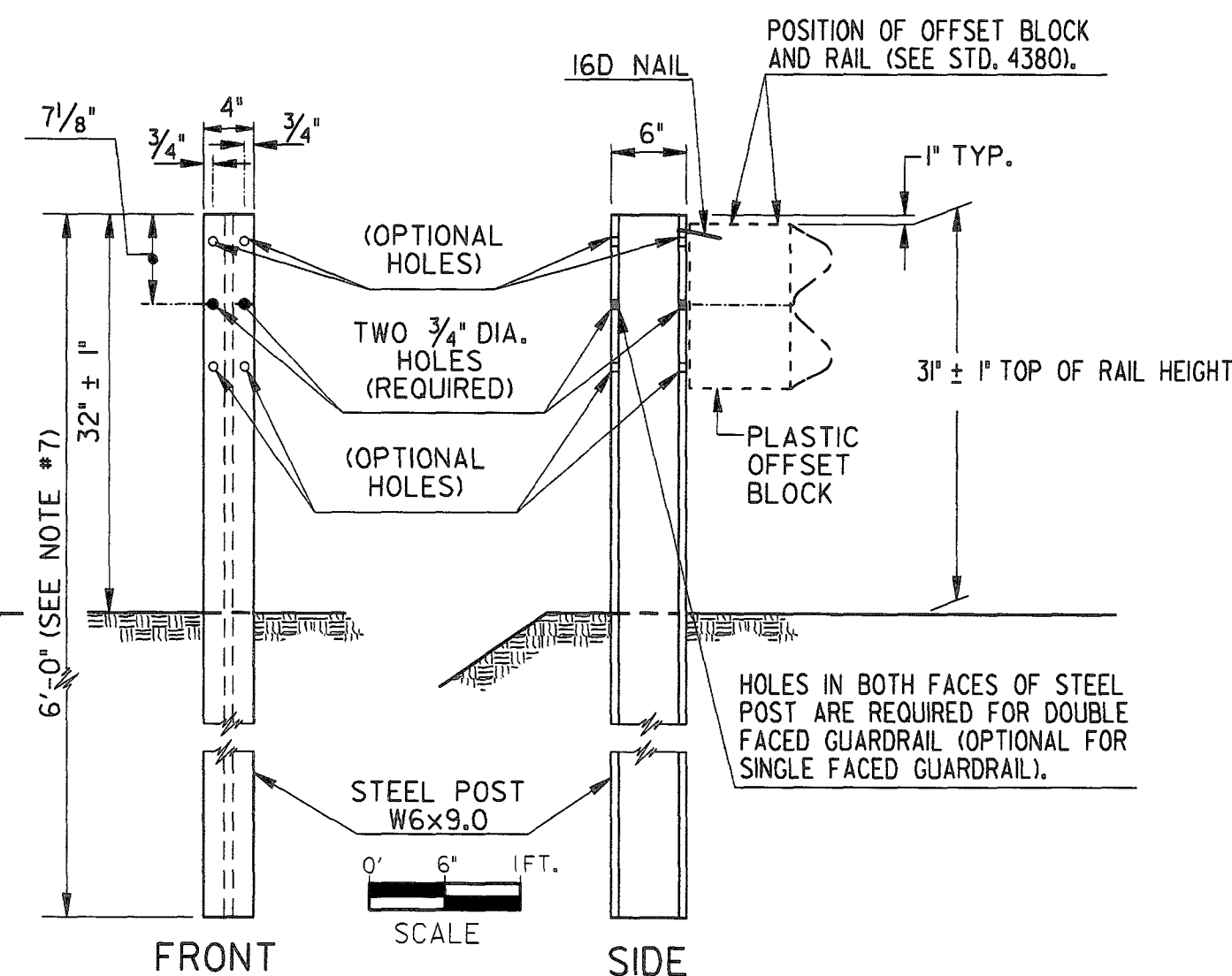


3/4/2016 9:33:31 AM \\GDOT\DSN\GQPLDT\GCE\GOC\qcf\baqr\jes\p3\Rail\cy&L\Light\ag\Standards\GA\_Standards\4381\Rev\1\100\_2016-1-29\4381\_Rev\1\sed\_2016-1-29.pr

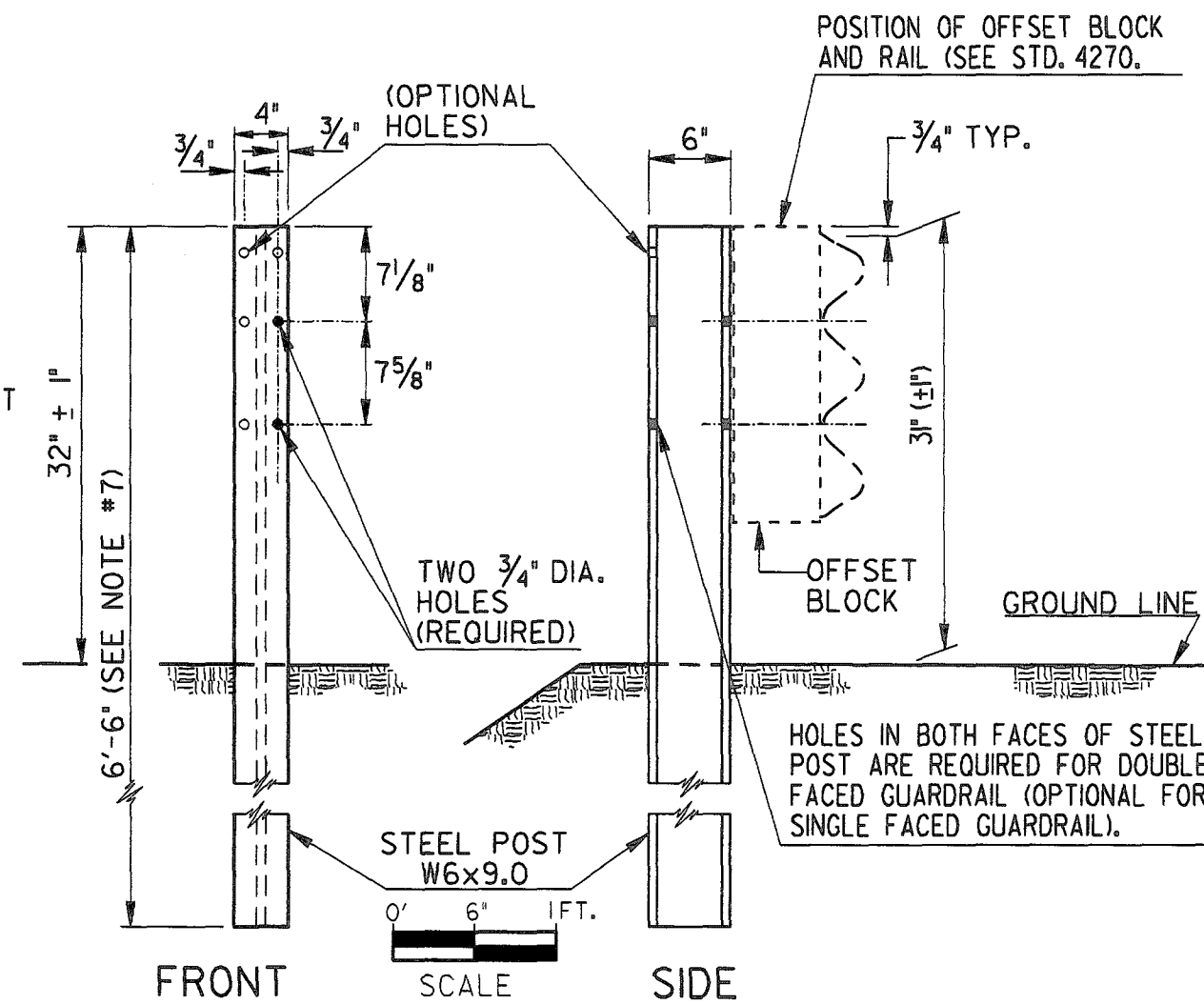
TYPE A WOOD POST (FOR "W" BEAM GUARDRAIL)  
NOTE: WOOD POST ARE ALLOWABLE ONLY WHERE SPECIFIED.



TYPE D STEEL POST (FOR "W" BEAM GUARDRAIL)

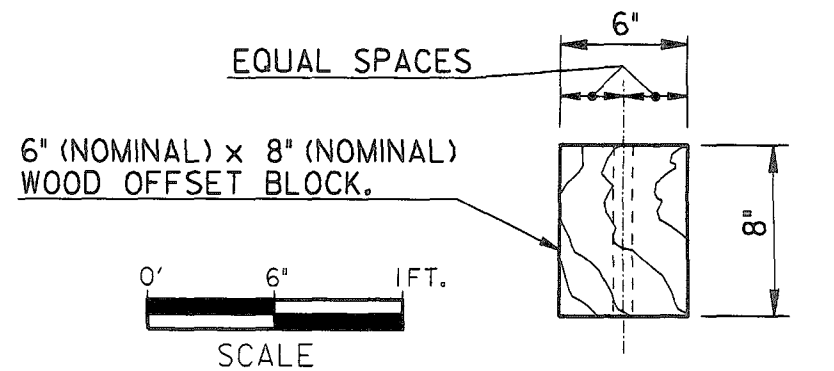
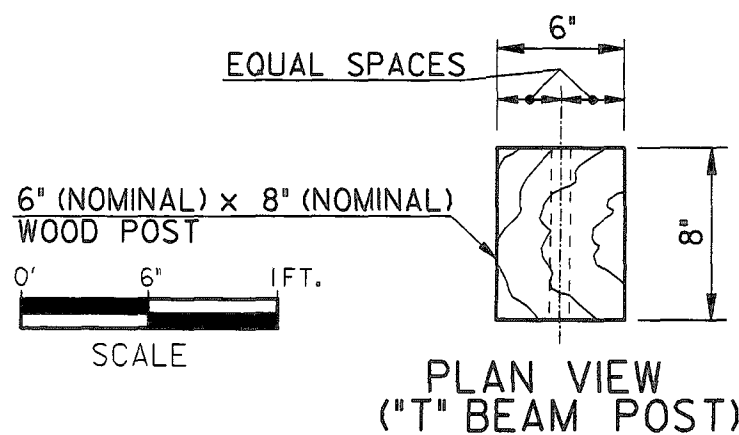


TYPE D-T STEEL POST (FOR "T" BEAM GUARDRAIL)



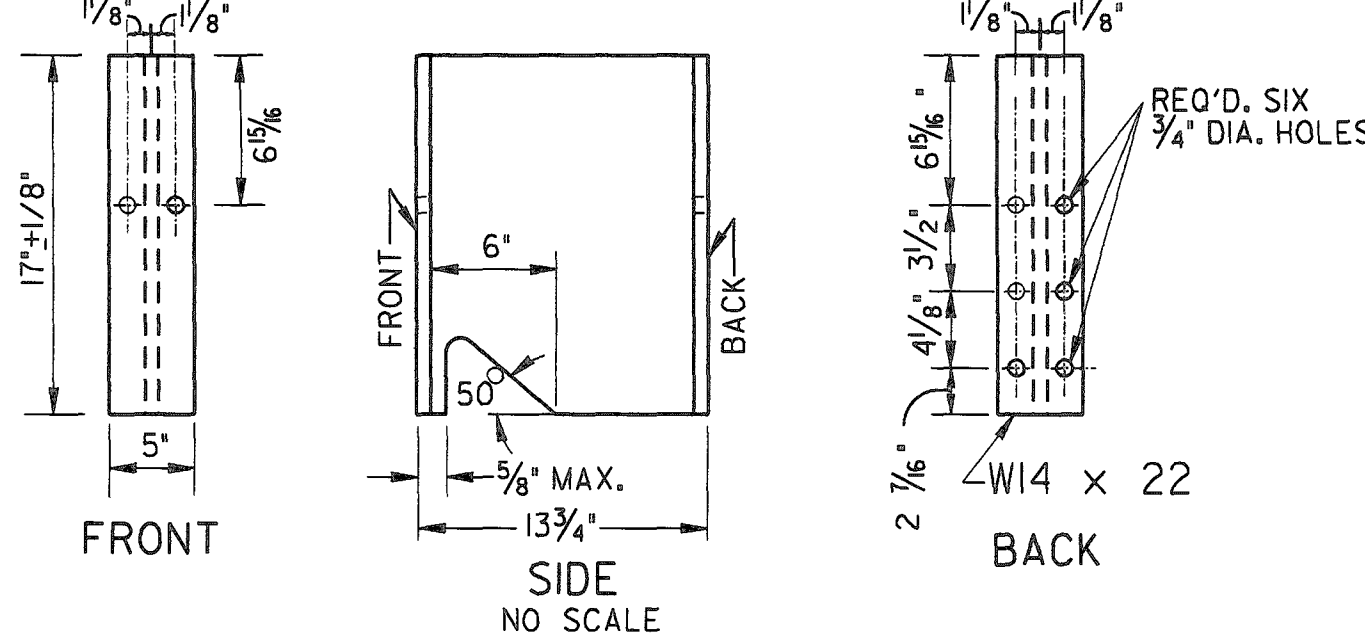
GENERAL NOTES:

- SPECIFICATIONS GEORGIA STANDARD, CURRENT EDITION AND SUPPLEMENTS THERETO.
- STEEL POSTS MAY BE EITHER ROLLED OR WELDED STRUCTURAL SHAPES. STEEL OFFSET BLOCKS SHALL BE ROLLED. WELDED POSTS SHALL BE SEAL WELDED BETWEEN WEB AND FLANGE BEFORE GALVANIZING.
- WHERE WOOD POST OR WOOD OFFSET BLOCKS ARE PERMITTED, THE WOOD SHALL BE TREATED IN ACCORDANCE WITH GEORGIA STANDARD SPECIFICATIONS.
- ALL BOLTS USED FOR FASTENING THE RAIL AND OFFSET BLOCKS TO WOOD POSTS SHALL HAVE SUFFICIENT LENGTH TO EXTEND AT LEAST 1/4" BEYOND THE FULL NUT, UP TO 3" BEYOND.
- (a) "W" BEAM GUARDRAIL: ALL OFFSET BLOCKS SHALL BE 8" DEPTH PLASTIC BLOCKS EXCEPT FOR (d) BELOW.  
(b) "T" BEAM GUARDRAIL: STANDARD INSTALLATION WILL USE 8" DEPTH PLASTIC BLOCKS UNLESS OTHERWISE APPROVED.  
(c) 13 3/4" DEPTH MODIFIED STEEL OFFSETS MAY BE SPECIFIED WHERE JUSTIFIED FOR MORE SEVERE CONDITIONS. PAY ITEM IS --GUARDRAIL, TP T, MODIFIED OFFSET BLOCK--PER LIN. FT.  
(d) WOOD OFFSET BLOCKS MAY BE USED ONLY AT AN ISOLATED LOCATION WITHIN A RUN OF GUARDRAIL, WHERE OTHER BLOCK TYPES WOULD NOT PROVIDE PROPER FIT, AS DETERMINED BY THE ENGINEER OR SHOWN IN THE PLANS.
- POSTS WILL BE SPACED AT 6'-3" C. TO C., UNLESS OTHERWISE NOTED.
- ADDITIONAL LENGTH POSTS, WHERE SPECIFIED, SHALL BE 7'-0" AND 7'-6" LONG FOR "W" BEAM AND "T" BEAM GUARDRAILS RESPECTIVELY, WITH HOLES DIMENSIONED FROM THE POST-TOP THE SAME AS SHOWN.
- 9'-0" POST REQUIRED IF GUARDRAIL INSTALLED ON A 2:1 SLOPE.
- GROUT FILL SHALL BE A CONTROLLED LOW STRENGTH FLOWABLE FILL THAT HAS A MAXIMUM 28-DAY COMPRESSIVE STRENGTH OF 100 P.S.I. ACCORDING TO SPEC. 600.

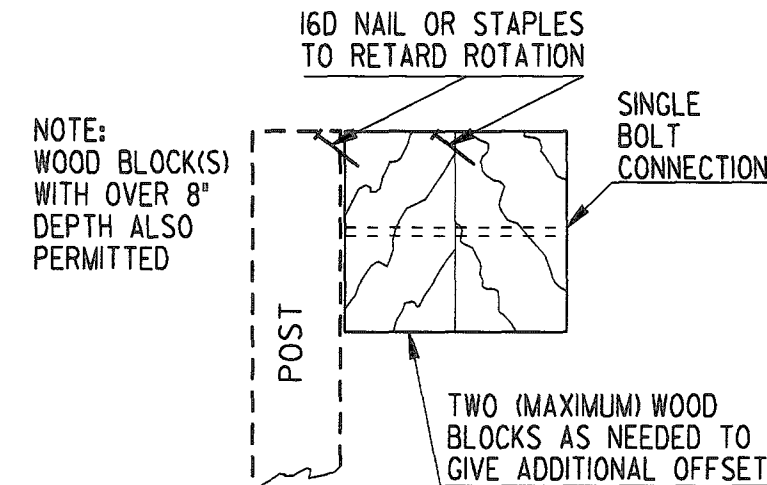


MODIFIED STEEL OFFSET BLOCK FOR "T" BEAM GUARDRAIL

NOTE: MODIFIED STEEL OFFSET BLOCK ARE USED ONLY WHERE SPECIFIED SEE NOTE 5(c)

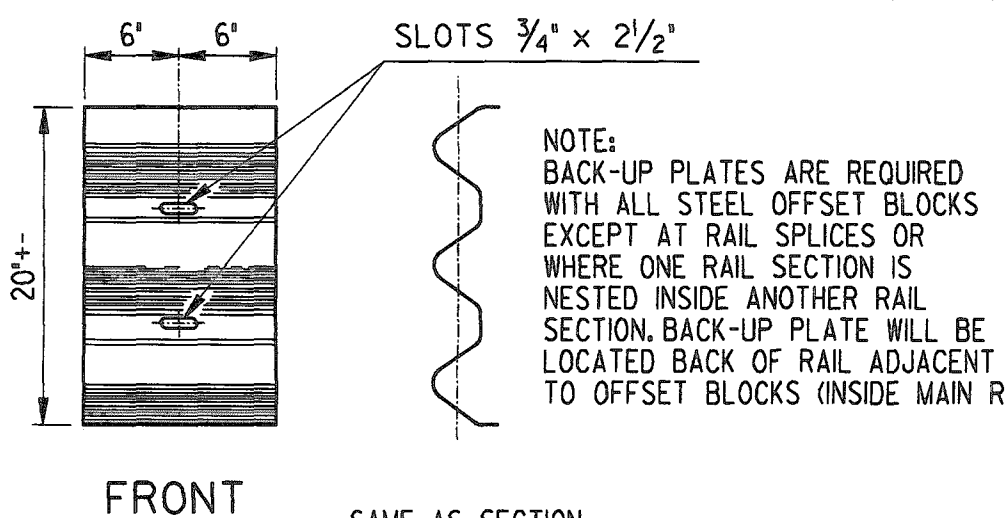


ADDITIONAL DEPTH OFFSET BLOCKOUTS (FOR USE WHERE GREATER THAN STANDARD OFFSET IS SPECIFIED)



WOOD POSTS AND WOOD OFFSET BLOCKS MAY BE ROUGH OR SURFACED.  
DIMENSIONS FOR WOOD POSTS AND WOOD OFFSET BLOCKS ARE NOMINAL IN ACCORDANCE WITH ACCEPTED LUMBER INDUSTRY STANDARDS.  
NOTE: WHERE WOOD OFFSET BLOCK ON STEEL POST IS PERMITTED IN "W" BEAM INSTALLATION, A NAIL OR SCREW FROM POST TO WOOD IS REQUIRED TO PREVENT ROTATION OF THE BLOCK.

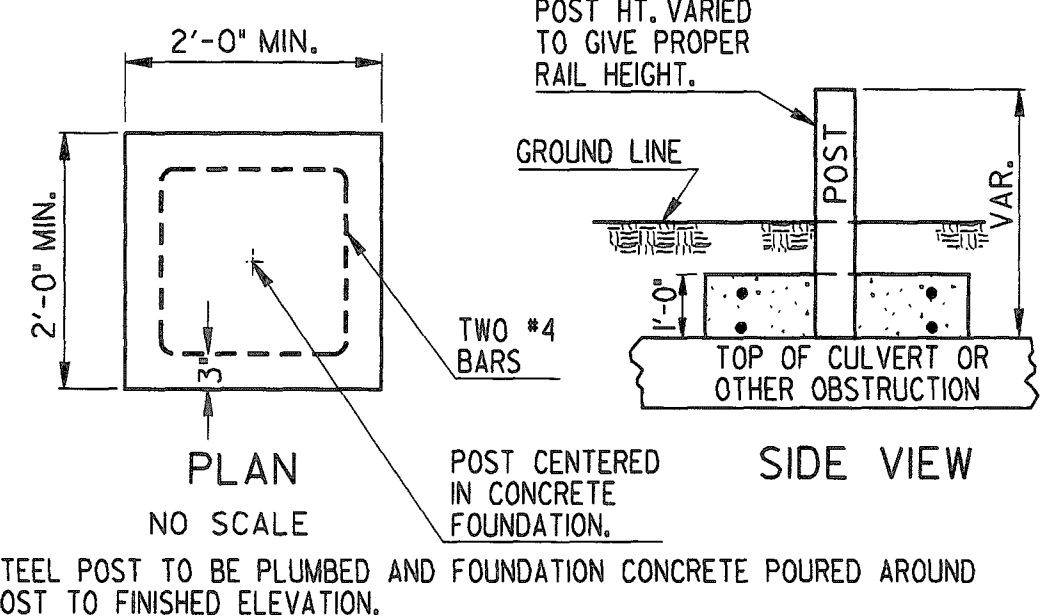
BACK-UP PLATE (FOR "T" BEAM GUARDRAIL)



NOTE: ADDITIONAL DEPTH OFFSETS BELOW ARE SHOWN FOR "W" BEAM. SIMILAR OFFSETS MAY BE APPLIED FOR "T" BEAM GUARDRAIL.

NOTE: ADDITIONAL DEPTH OFFSETS ARE PERMITTED ONLY WHERE AN ISOLATED POST MUST BE PLACED AT A GREATER THAN NORMAL OFFSET.  
NOTE: FOR BLOCK CONNECTION TO POST AND TO RAIL SEE STD. 4380 OR 4385.

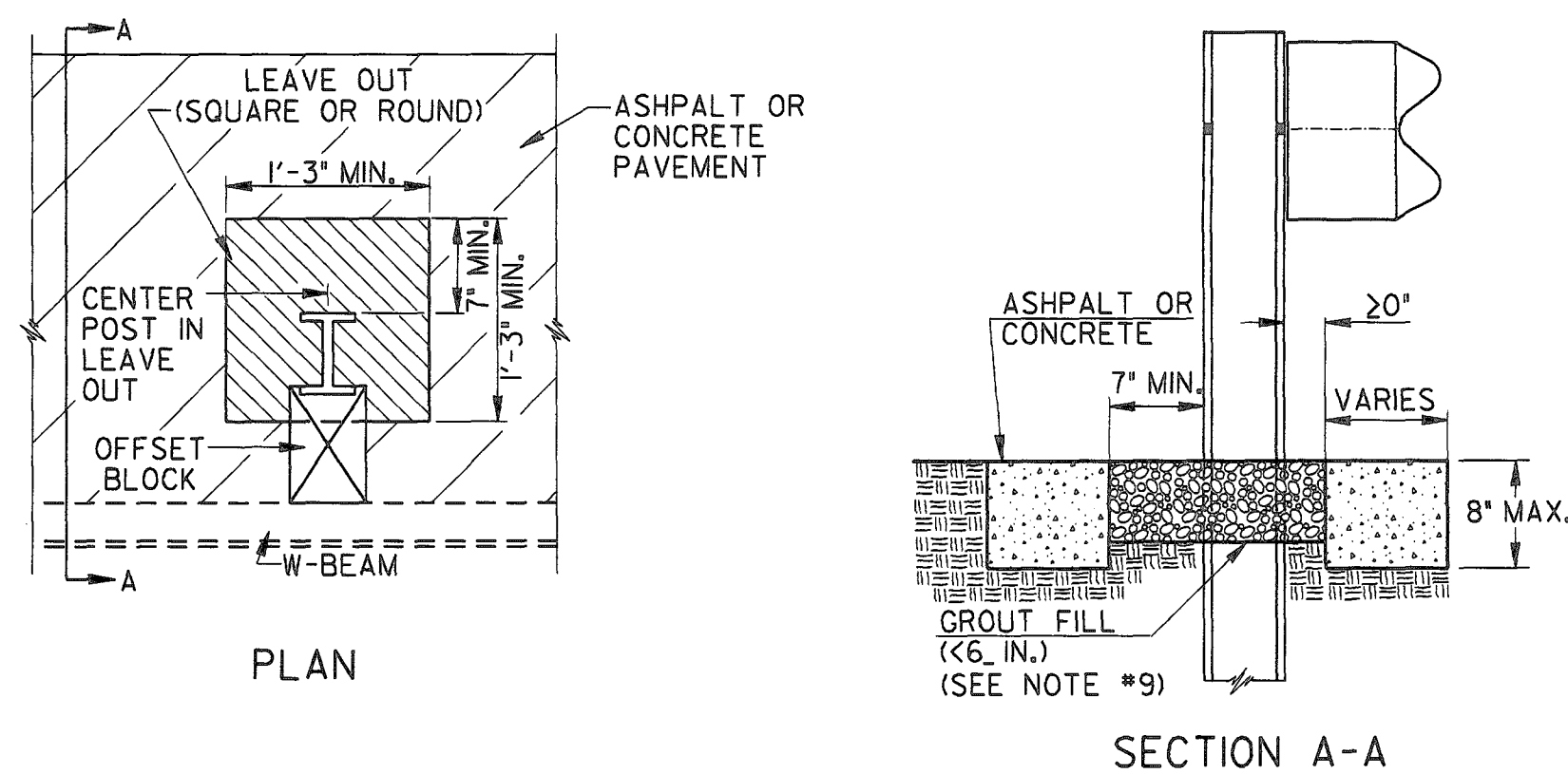
CONCRETE FOUNDATION FOR POST IN SHALLOW FILLS OVER CULVERTS OR OTHER OBSTRUCTIONS (NOTE: PLATE MOUNTED POST MAY BE USED AS AN ALTERNATE, SEE SEPARATE SHEET).



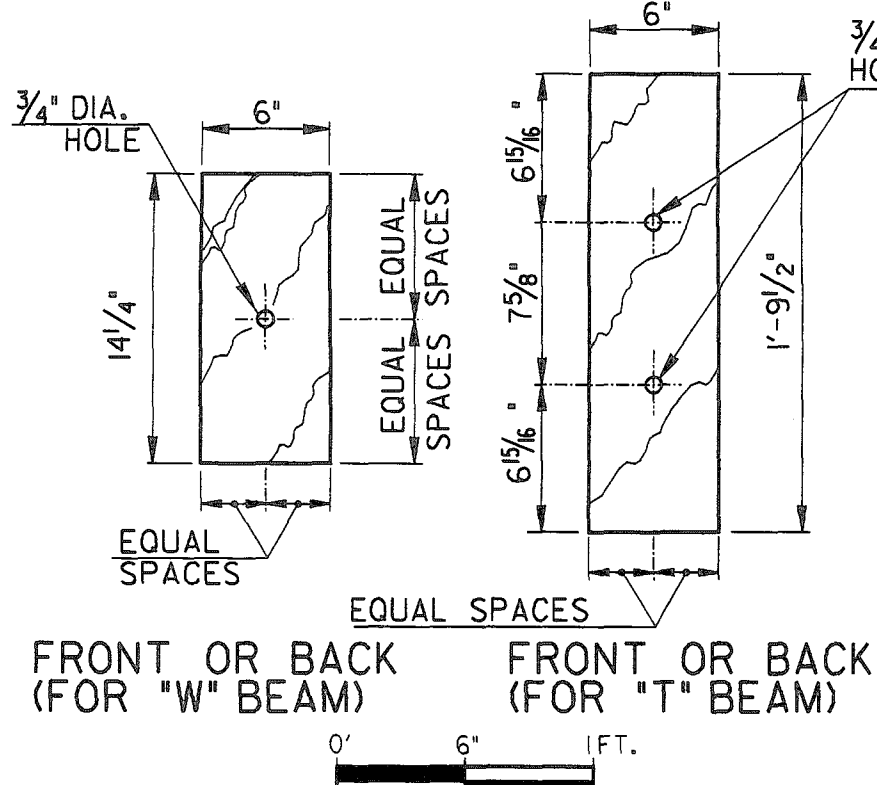
STEEL POST TO BE PLUMBED AND FOUNDATION CONCRETE POURED AROUND POST TO FINISHED ELEVATION.

PAYMENT FOR GUARDRAIL TO INCLUDE ALL EXTRA WORK AND MATERIALS INCLUDING CONCRETE (CL. A OR CL. B) AND NO. 4 BARS.  
IF OFFSET FROM RAIL FACE TO HEADWALL IS LESS THAN 4'-3", POST SPACINGS ARE REDUCED TO 3'-1/2" C.C. ACROSS THE CULVERT WITH 7 SUCH SPACINGS IN ADVANCE AT NO ADDITIONAL PAYMENT.

GUARDRAIL POST DETAILS IN ASPHALT OR CONCRETE PAVEMENT APPLICATIONS

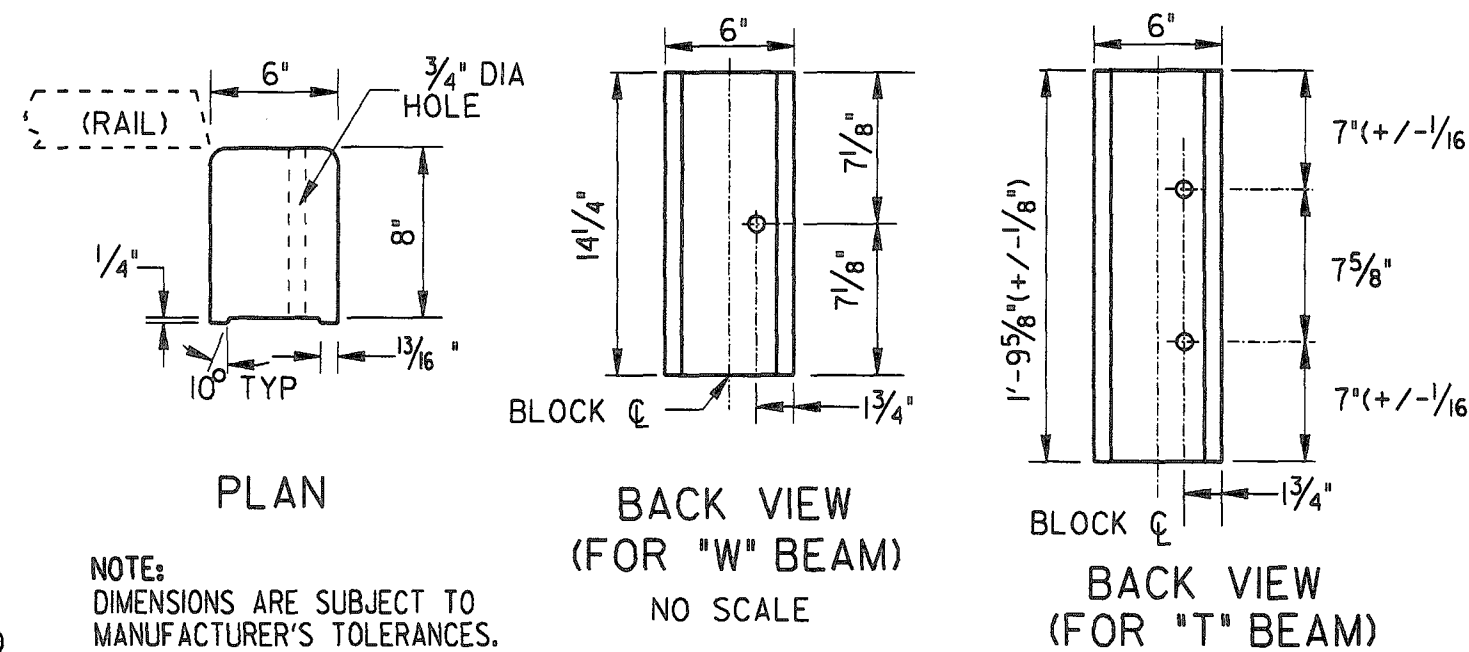


WOOD OFFSET BLOCKS (WHERE PERMITTED, SEE NOTE 5(d))

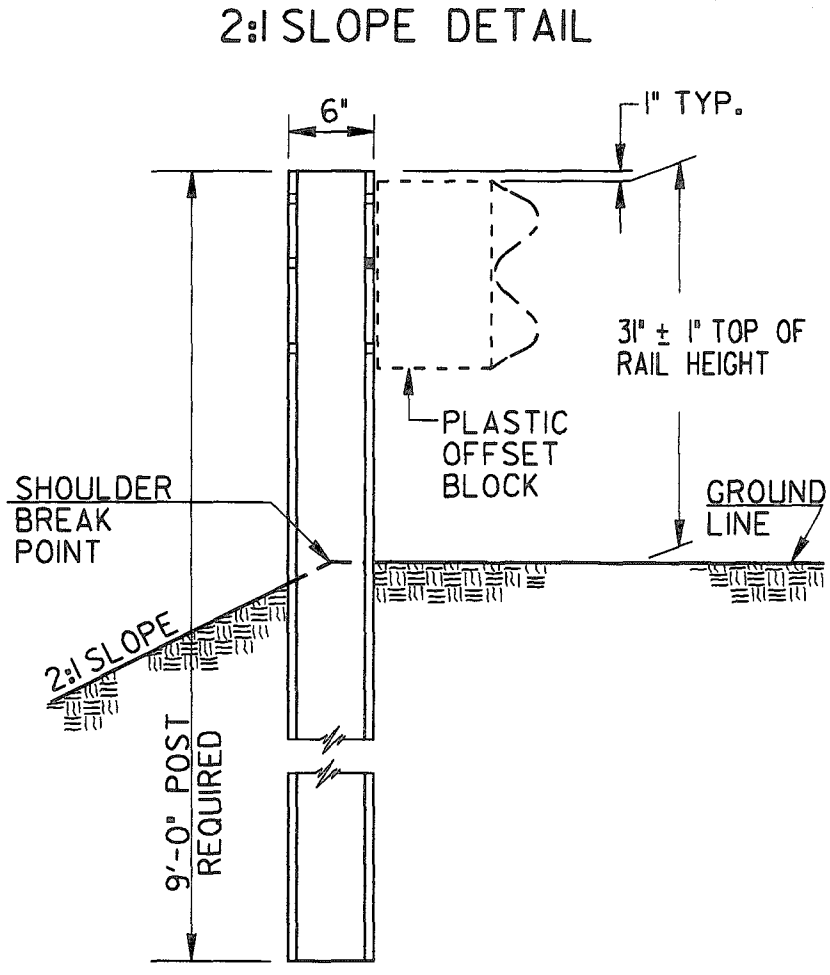


STANDARD PLASTIC OFFSET BLOCKS

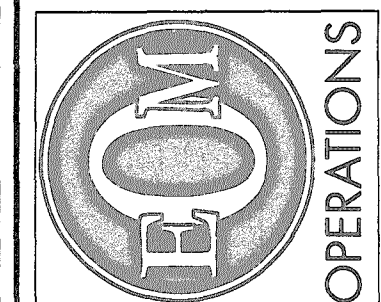
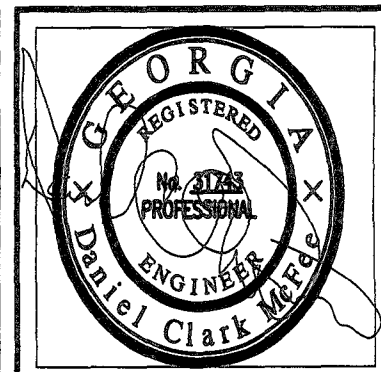
NOTE: PLASTIC OFFSET BLOCKS SHALL BE OF TYPE LISTED IN GA. DOT OPI. OF APPROVED PRODUCTS OR PER STANDARD SPECIFICATIONS.



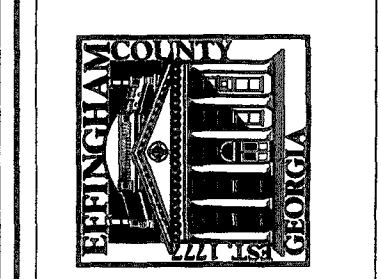
NOTE: DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES.



DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA			
STANDARD POSTS AND OFFSET BLOCKS FOR "W" & "T" BEAM GUARDRAIL 31 INCH GUARDRAIL HEIGHT			
SCALE: AS SHOWN		AUGUST 2011	
DES. G.L.O. (SUBMITTED) <i>B. A. S.</i>	NUMBER		4381
DRW. G.L.O. STATE DESIGN POLICY ENGINEER	BY		
CHK. B.A.S. (APPROVED) <i>Margaret B. Pardo</i>	REVIEW		
REVIEW B.A.S. CHIEF ENGINEER			



EFFINGHAM COUNTY  
BOARD OF COMMISSIONERS  
ENGINEERING DEPARTMENT  
PH: (912) 754-0080  
FX: (912) 754-9959  
801 NORTH LAUREL STREET  
SPRINGFIELD, GA 31329



REVISIONS	DATE
NUMBER	

DESIGNED BY DCM	CHECKED BY LCA	DATE	JOB NO.	SCALE	NONE
		08/24/2016			

HONEY RIDGE ROAD BRIDGE REPLACEMENT  
PREPARED FOR:  
EFFINGHAM COUNTY BOARD OF COMMISSIONERS  
GUARDRAIL POSTS

SHEET NUMBER







INSPECTIONS

A. PRIMARY PERMITTEE.

(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, QUALIFIED 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 THAT PERMITTEE'S VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING; AND (c) MEASURE RAINFALL, ONCE EACH TWENTYFOUR HOUR PERIOD AT THE SITE. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2). QUALIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER THE FOLLOWING: (a) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION; (b) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; AND (c) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION, THE PERMITTEE MUST COMPLY WITH PART IV.D.3.A.(3). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(3). QUALIFIED 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 IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. 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).

(4). 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. THE PRIMARY PERMITTEE MUST AMEND THE PLAN IN ACCORDANCE WITH PART IV.D.3.B.(4). WHEN A SECONDARY PERMITTEE NOTIFIES THE PRIMARY PERMITTEE OF ANY PLAN DEFICIENCIES.

(5). A REPORT (I.E., NOT INDIVIDUAL INSPECTION FORMS) SUMMARIZING THE SCOPE OF EACH INSPECTION AND THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND ACTIONS TAKEN IN ACCORDANCE WITH PART V.A.6.A.(4) OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NONCOMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NONCOMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND THIS PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT.

B. SECONDARY PERMITTEE.

(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A SECONDARY PERMITTEE'S SITE, QUALIFIED PERSONNEL PROVIDED BY THE SECONDARY PERMITTEE SHALL INSPECT: (a) ALL AREAS USED BY THE SECONDARY PERMITTEE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; AND (b) ALL LOCATIONS AT THE SECONDARY PERMITTEE SITE WHERE THAT PERMITTEE'S 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. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES.

(2). QUALIFIED PERSONNEL (PROVIDED BY THE SECONDARY PERMITTEE) SHALL INSPECT AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER THE FOLLOWING: (a) DISTURBED AREAS OF THE SECONDARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION; (b) AREAS USED BY THE SECONDARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; AND (c) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE SECONDARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION, THE PERMITTEE MUST COMPLY WITH PART IV.D.3.B.(3). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES PERFORMING ONLY SERVICE LINE INSTALLATIONS.

(3). QUALIFIED PERSONNEL (PROVIDED BY THE SECONDARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THEIR SITES THAT HAVE UNDERGONE FINAL STABILIZATION. 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). THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES.

(4). BASED ON THE RESULTS OF EACH INSPECTION, THE SECONDARY PERMITTEE MUST NOTIFY THE PRIMARY PERMITTEE WITHIN 24-HOURS OF ANY SUSPECTED BMP DESIGN DEFICIENCIES. THE PRIMARY PERMITTEE MUST EVALUATE WHETHER THESE DEFICIENCIES EXIST WITHIN 48-HOURS OF SUCH NOTICE, AND IF THESE DEFICIENCIES ARE FOUND TO EXIST MUST AMEND THE PLAN IN ACCORDANCE WITH PART V.C. OF THIS PERMIT TO ADDRESS THOSE DEFICIENT BMPs WITHIN SEVEN (7) DAYS OF BEING NOTIFIED BY THE SECONDARY PERMITTEE. WHEN THE PLAN IS AMENDED, THE PRIMARY PERMITTEE MUST NOTIFY AND PROVIDE A COPY OF THE AMENDMENT TO ALL AFFECTED SECONDARY PERMITTEE(S) WITHIN THIS SEVEN (7) DAY PERIOD. THE SECONDARY PERMITTEES MUST IMPLEMENT ANY NEW PLAN REQUIREMENTS AFFECTING THEIR SITE(S) WITHIN 48-HOURS OF NOTIFICATION BY THE PRIMARY PERMITTEE.

(5). A REPORT (I.E., NOT INDIVIDUAL INSPECTION FORMS) SUMMARIZING THE SCOPE OF THE INSPECTION AND THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.3.B.(4). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND THIS PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES PERFORMING ONLY SERVICE LINE INSTALLATIONS.

C. TERTIARY PERMITTEE.

(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A TERTIARY PERMITTEE'S SITE, QUALIFIED PERSONNEL PROVIDED BY THE TERTIARY PERMITTEE SHALL INSPECT: (a) ALL AREAS USED BY THE TERTIARY PERMITTEE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; AND (b) ALL LOCATIONS AT THE TERTIARY PERMITTEE SITE WHERE THAT PERMITTEE'S 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. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS PERFORMING ONLY SERVICE LINE INSTALLATIONS.

(2). QUALIFIED PERSONNEL (PROVIDED BY THE TERTIARY PERMITTEE) SHALL INSPECT AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER THE FOLLOWING: (a) DISTURBED AREAS OF THE TERTIARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION; (b) AREAS USED BY THE TERTIARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; AND (c) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE TERTIARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION, THE PERMITTEE MUST COMPLY WITH PART IV.D.3.C.(3). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS PERFORMING ONLY SERVICE LINE INSTALLATIONS.

(3). QUALIFIED PERSONNEL (PROVIDED BY THE TERTIARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THEIR SITES THAT HAVE UNDERGONE FINAL STABILIZATION. 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). THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS PERFORMING ONLY SERVICE LINE INSTALLATIONS.

(4). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE TERTIARY EROSION 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 THE INSPECTION.

(5). A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION AND THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE TERTIARY EROSION CONTROL PLAN AND ACTIONS TAKEN IN ACCORDANCE WITH PART V.G. OF THIS PERMIT. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES PERFORMING ONLY SERVICE LINE INSTALLATIONS.

SOIL EROSION AND CONTROL PRACTICES:

- LOCAL, STATE, AND MANUFACTURE'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
- MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDE, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
- SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
- FOR SPILLS THAT IMPACT SURFACE WATER (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 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 EPD WILL BE CONTACTED WITH 24 HOURS.
- 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 HAS ISSUED THIS PLAN IF MORE THAN 1200 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 600 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

PRODUCT SPECIFIC PRACTICES:

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION.

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 PRODUCTS, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURE'S SPECIFICATIONS AND RECOMMENDATIONS.

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

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

BUILDING MATERIALS - NO BUILDING MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIALS WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

STATE WATERS/WETLANDS:

THIS PROJECT IS LOCATED WITHIN THE WETLANDS LIMITS. IT IS AN EXEMPT ACTIVITY AND WILL NOT REQUIRE A 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR VARIANCES AND PERMITS ACCORDING TO PART IV.(1) AND (11) OF THE GENERAL PERMIT.

HAZARDOUS WASTES:

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. THE MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCC FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES. THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESPCC AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO SOME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES

A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS. ALL SANITARY WASTE UNITS WILL BE LOCATED IN ONE AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMPs MUST BE IMPLEMENTED SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE SHEET C-48, BY THE CONTRACTOR ONCE THE LOCATION HAVE BEEN DETERMINED. THE SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY/SEPTIC SYSTEM UPON THE COMPLETION OF THIS PROJECT.

PETROLEUM SPILLS & LEAKS:

ANY LEAKS OR SPILLS OF PETROLEUM PRODUCTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTAIN, CONTROL, AND REMEDIATE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL GUIDELINES, ORDINANCES, AND LAWS.

CONTROL OF POLLUTANTS: POLLUTANTS OR POTENTIALLY HAZARDOUS MATERIALS, SUCH AS FUELS, LUBRICANTS, LEAD PAINT, CHEMICALS OR BATTERIES, SHALL BE TRANSPORTED, STORED AND UTILIZED IN A MANNER TO PREVENT LEAKAGE OR SPILLAGE INTO THE ENVIRONMENT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROPER AND LEGAL DISPOSAL OF ALL SUCH MATERIALS. EQUIPMENT, ESPECIALLY ENDOCRINE OR ASPHALT TRUCKS, SHALL NOT BE WASHED OR CLEANED OUT ON THE PROJECT EXCEPT IN AREAS WHERE UNUSED PRODUCT CONTAMINANTS CAN BE PREVENTED FROM ENTERING WATERWAYS.

KEEPING PLANS CURRENT:

THE PRIMARY, SECONDARY OR TERTIARY PERMITTEES, AS APPLICABLE, WHO BEGAN CONSTRUCTION ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT SHALL AMEND THEIR PLAN OR TEC PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT, I.E., THOSE BMPs WHERE THE DESIGN IS BASED UPON RAINFALL INTENSITY, DURATION AND RETURN FREQUENCY OF STORMS OR ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS TO THE WATERS OF GEORGIA AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE PLAN OR TEC PLAN, IF THE PLAN OR TEC PLAN PROVES TO BE INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM SOURCES IDENTIFIED UNDER PART IV.D.2 OF THIS PERMIT, OR IF THE PLAN OR TEC PLAN PROVES TO BE INEFFECTIVE IN ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. AMENDMENTS TO THE PLAN MUST BE CERTIFIED BY A DESIGN PROFESSIONAL AS PROVIDED IN THIS PERMIT. FOR CONSTRUCTION COMMENCING AFTER THE EFFECTIVE DATE OF THIS PERMIT, SECONDARY PERMITTEES MUST NOTIFY THE PRIMARY PERMITTEE WITHIN 24-HOURS OF BECOMING AWARE OF ANY SUSPECTED BMP DESIGNED DEFICIENCIES WHICH ARE NOT EFFECTIVE IN CONTROLLING THE DISCHARGE OF POLLUTANTS FROM THE SECONDARY PERMITTEE'S SITE. THE PRIMARY PERMITTEE MUST EVALUATE WHETHER THESE DEFICIENCIES EXIST WITHIN 48-HOURS OF SUCH NOTICE, AND IF THESE DEFICIENCIES ARE FOUND TO EXIST MUST AMEND THE PLAN IN ACCORDANCE WITH THIS PARAGRAPH TO ADDRESS THOSE DEFICIENT BMPs WITHIN SEVEN (7) DAYS OF BEING NOTIFIED BY THE SECONDARY PERMITTEE. WHEN THE PLAN IS AMENDED, THE PRIMARY PERMITTEE MUST NOTIFY AND PROVIDE A COPY OF THE AMENDMENT TO ALL AFFECTED SECONDARY PERMITTEE(S) WITHIN THIS SEVEN (7) DAY PERIOD. WITHIN 48-HOURS OF NOTIFICATION BY THE PRIMARY PERMITTEE, NOTWITHSTANDING THE FOREGOING, THE PRIMARY OR TERTIARY PERMITTEE REMAINS RESPONSIBLE FOR INSURING THAT THE PLAN OR THE TEC PLAN, AS APPROPRIATE, MEETS THE REQUIREMENTS OF THIS PERMIT.

NOTE

ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

SECONDARY PERMITTEES:

NOTE: THIS MASTER LIST TO BE COMPLETE AND SIGNED AND KEPT IN THE ONSITE CONSTRUCTION TRAILER.

SECONDARY PERMITTEE'S SIGN WHEN RECEIVING PLAND. ALL SECONDARY PERMITTEES MUST SUBMIT SECONDARY NOE AT LEAST 14 DAY PRIOR TO BEFINNING CONSTRUCTION ACTIVITY.

NAME \_\_\_\_\_ PHONE: \_\_\_\_\_  
COMPANY \_\_\_\_\_ FAX: \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
GSWCC LEVEL 1A CERTIFICATION NO. \_\_\_\_\_ SIGNATURE \_\_\_\_\_

NAME \_\_\_\_\_ PHONE: \_\_\_\_\_  
COMPANY \_\_\_\_\_ FAX: \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
GSWCC LEVEL 1A CERTIFICATION NO. \_\_\_\_\_ SIGNATURE \_\_\_\_\_

NAME \_\_\_\_\_ PHONE: \_\_\_\_\_  
COMPANY \_\_\_\_\_ FAX: \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
GSWCC LEVEL 1A CERTIFICATION NO. \_\_\_\_\_ SIGNATURE \_\_\_\_\_

NAME \_\_\_\_\_ PHONE: \_\_\_\_\_  
COMPANY \_\_\_\_\_ FAX: \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
GSWCC LEVEL 1A CERTIFICATION NO. \_\_\_\_\_ SIGNATURE \_\_\_\_\_

SPECIAL NOTES:

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL PREVENTED BY THE INSTALLATION OF EROSION CONTROL AND SEDIMENT CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
2. 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.
3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
4. THERE ARE NO STATE WATERS LOCATED WITHIN 200' OF THIS SITE.
5. THERE WILL BE NO WETLANDS IMPACTED DUE TO THE DEVELOPMENT OF THIS SITE.
6. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.
7. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
8. ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION:

DATE OF INSPECTION \_\_\_\_\_

I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.

GSWCC LEVEL II DESIGN PROFESSIONAL \_\_\_\_\_ CERTIFICATION # \_\_\_\_\_

INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN \_\_\_\_\_

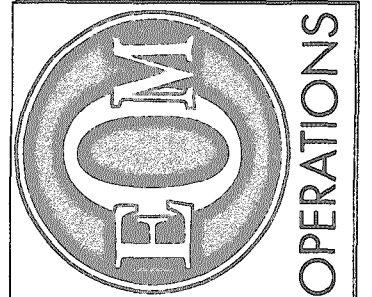
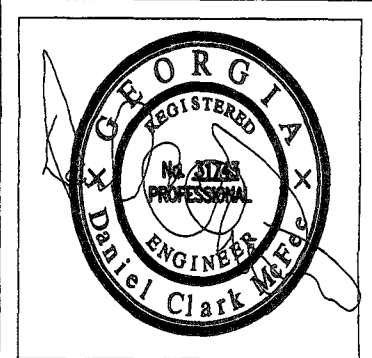
THESE DISCREPANCIES MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.



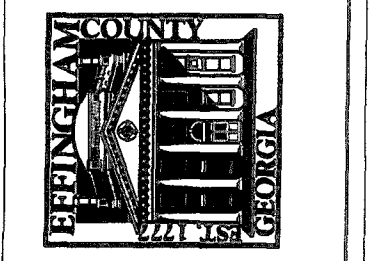
NO WASTE WILL BY DISPOSED INTO STORM WATER INLETS OR WATERS OF THE STATE.

WASTE MATERIALS

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOB SITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.



EFFINGHAM COUNTY  
BOARD OF COMMISSIONERS  
ENGINEERING DEPARTMENT  
601 NORTH LAUREL STREET  
SPRINGFIELD, GA 31329  
PH(912) 754-0060  
FX(912) 754-9699



REVISED	DATE	
	NUMBER	

DESIGNED BY	DCM	DRAWN BY	DCM	CHECKED BY	LCA	DATE	08/24/2018	JOB NO.	SCALE	NONE

HONEY RIDGE ROAD BRIDGE REPLACEMENT  
PREPARED FOR  
EFFINGHAM COUNTY BOARD OF COMMISSIONERS  
EROSION & SEDIMENT CONTROL NOTES - CONT

SHEET NUMBER