STATE COUNTY D&F PROJECT NO. ROAD NAME ROUTE SHEET TOTAL SHEETS

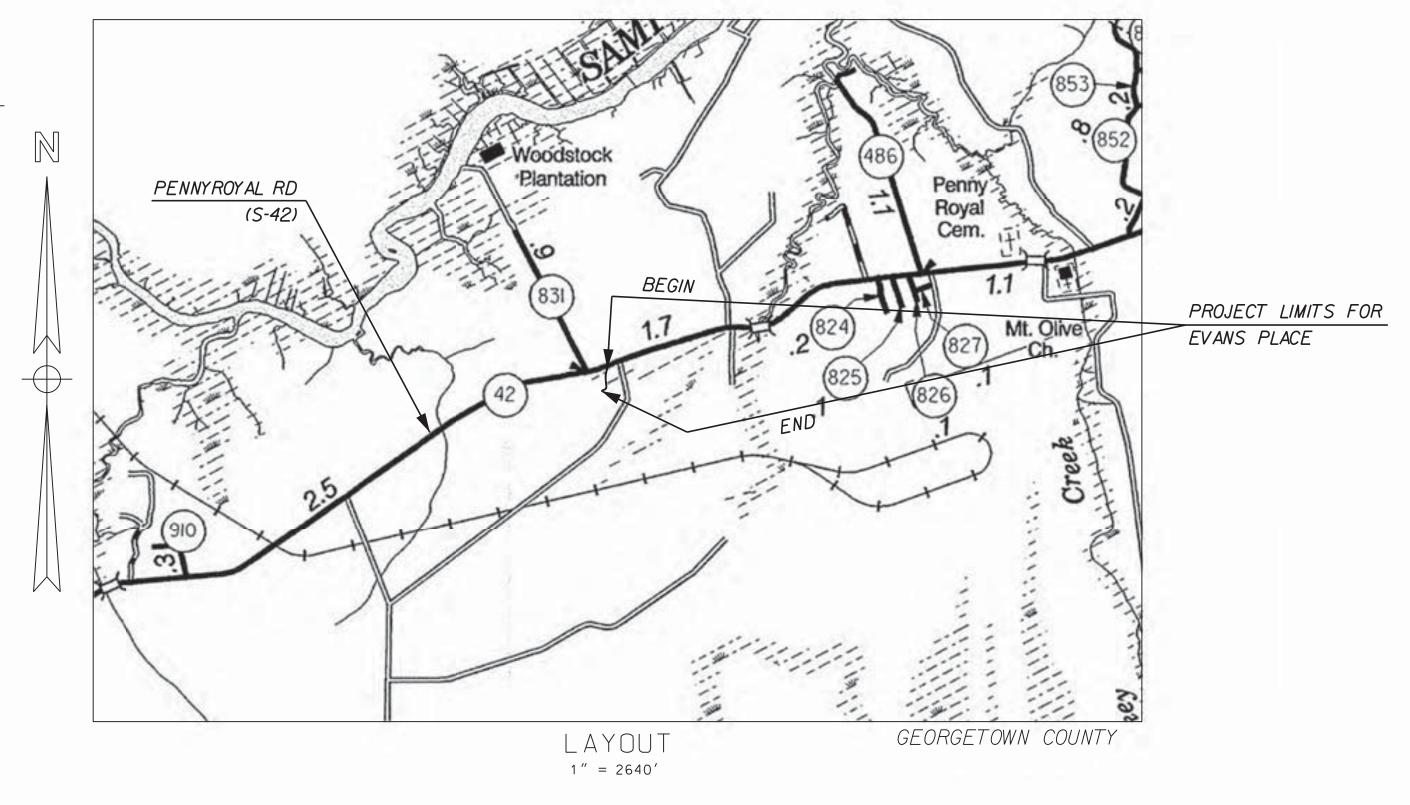
S.C. GEORGETOWN 31742.08 EVANS PLACE 1

GEORGETOWN COUNTY DEPARTMENT OF PUBLIC SERVICES DIVISION OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENTS FOR EVANS PLACE

INDEX OF SHEETS

SHEET #	DESCRIPTION	SHEET TOTALS
OI	TITLE SHEET	
03	TYPICAL SECTIONS	I
05	GENERAL CONSTRUCTION NOTES	I
05A-05B	REFERENCE SHEET	2
06	PLAN AND PROFILE SHEETS	I
UI	UTILITY SHEET	I
ECOI - ECO2	EROSION CONTROL NOTES	2
XI - X2	CROSS SECTIONS	2
DOI - DI5	STANDARD DRAWINGS	15
	TOTAL SHEETS	26



RAILROAD INVOLVEMENT?
YES / NO

NPDES PERMIT INFORMATION

NPDES Disturbed Area = 0.6 Acres

Approximate Location of Roadway is:

Longitude 79°22′50.5″ W

Latitude 33°20′36.4″ N

Hydrology and NPDES Design provided by:

Davis & Floyd

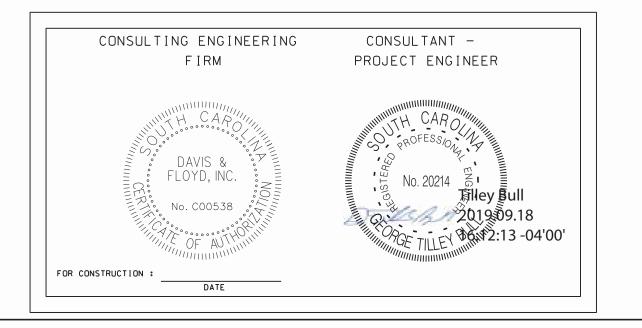
NET LENGTH OF ROADWAY 0.13	MILES
NET LENGTH OF OUTFALL 0.00	MILES
NET LENGTH OF PROJECT 0.13	MILES
LENGTH OF EXCEPTIONS 0.00	MILES
GROSS LENGTH OF PROJECT 0.13	MILES

NOTE: ALL WORKMANSHIP AND MATERIAL ON THIS PROJECT TO CONFORM WITH SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION), AND BOOK OF STANDARD DRAWINGS FOR ROAD CONSTRUCTION.

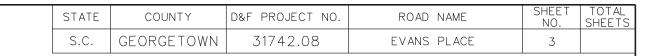
3 DAYS BEFORE DIGGING IN SOUTH CAROLINA

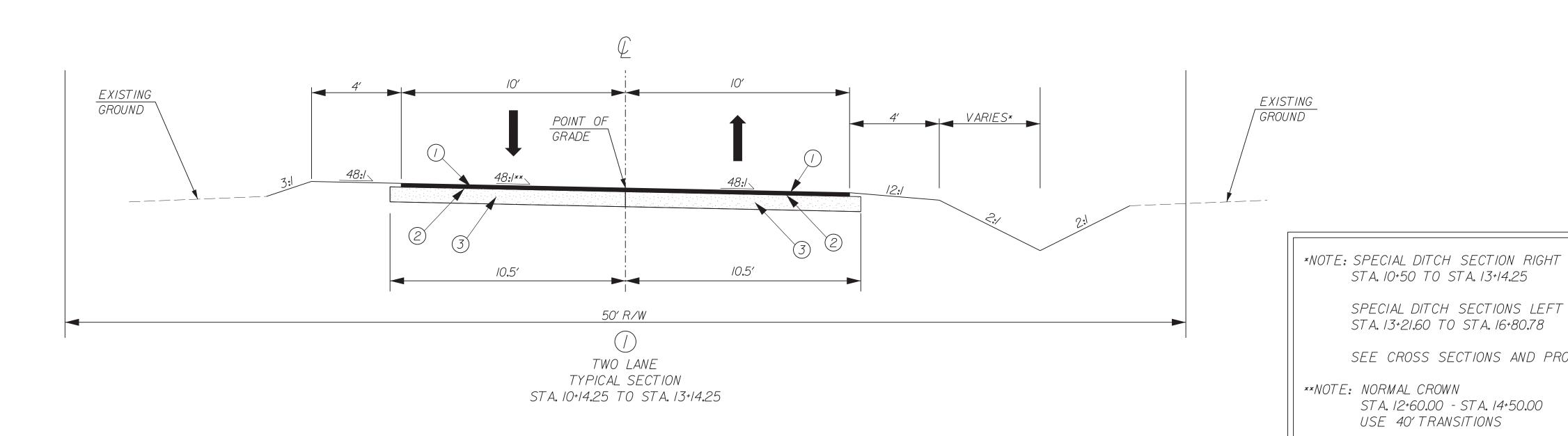
CALL 811

PALMETTO UTILITY PROTECTION SERVICES, INC. (PUPS)
ALL UTILITIES MAY NOT BE A MEMBER OF PUPS.



TYPICAL SECTION EVANS PLACE GEORGETOWN COUNTY





WITHIN THE SCDOT R/W USE THE FOLLOWING PAVEMENT DESIGN H/M ASPHALT CONCRETE SURFACE COURSE TYPE B (220#/SY) H/M ASPHALT CONCRETE INTERMEDIATE COURSE TYPE B (440#/SY) H/M ASPHALT CONCRETE BASE COURSE TYPE B (450#/SY)

STA. 10+50 TO STA. 13+14.25

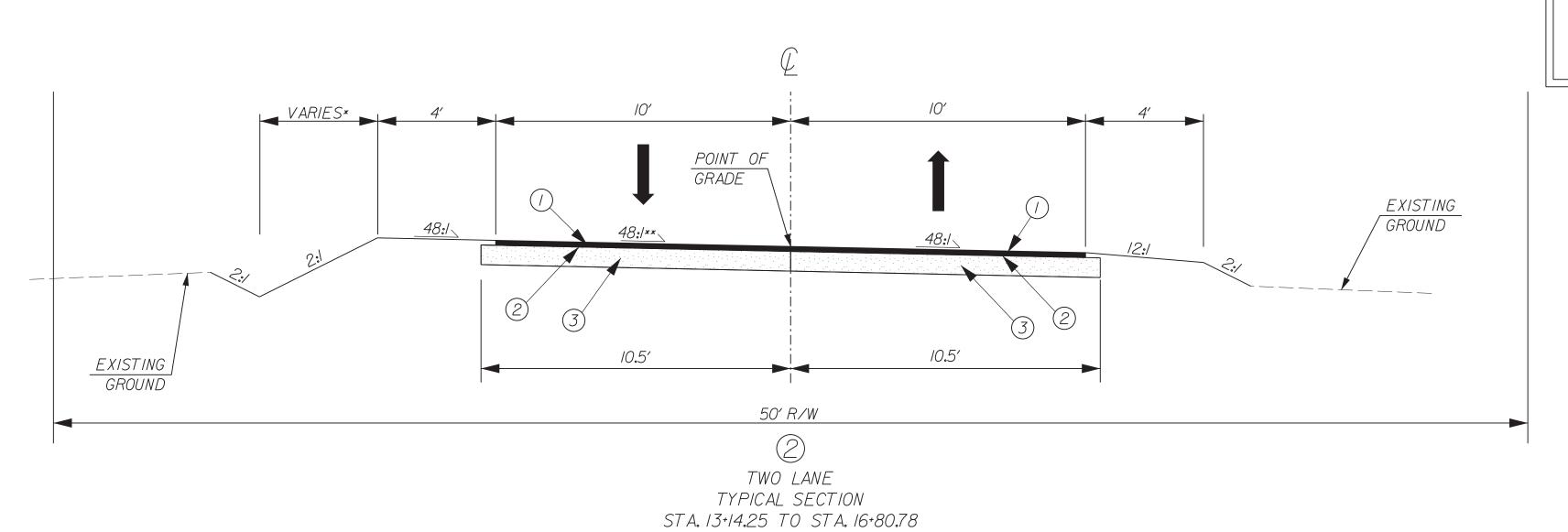
SPECIAL DITCH SECTIONS LEFT

SEE CROSS SECTIONS AND PROFILE

STA. 13+21.60 TO STA. 16+80.78

STA. 12+60.00 - STA. 14+50.00

USE 40' TRANSITIONS

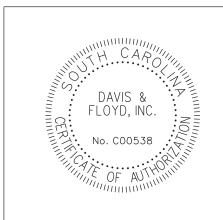


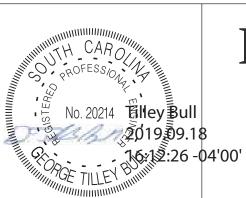
PAVEMENT LEGEND

H/M ASPHALT CONCRETE SURFACE COURSE TYPE C (200#/SY)

----- PRIME COAT

8" GRADED AGGREGATE BASE COURSE





DAVIS & FLOYD

SINCE 1954

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1.1					
W. MONTAGUE AVENUE -ESTON, SC 29418 554-8602	3				
E AV 29418	2				
TAGU SC 3	1				
MON_ - 86,	REV. NO.	B'	ſ	DATE	DESCRIPTION OF REVISION
W. RLES	DGN	JJG	DATE		
3229 ' CHARL (843) 5	R/W		DATE		
1.700	CHK	GTB	DATE		

ENGINEERED ROADS PROGRAM EVANS PLACE

TYPICAL SECTION

GEORGETOWN COUNTY

SCALE 1''= 3'

GENERAL CONSTRUCTION NOTES:

THE CONTRACTOR MUST PERFORM ALL WORK IN ACCORDANCE WITH THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS FOR ROAD CONSTRUCTION (LATEST EDITION), SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION), SCDOT TRAFFIC SIGNAL SPECIFICATIONS, AND THE MUTCD, 2009 EDITION.

THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES TO PREVENT THE TRANSFER OF SUSPENDED SOLIDS AND/OR CHEMICAL SOLUTIONS OFF-SITE, AND TO PREVENT EXCESSIVE SILTATION OF EXISTING DRAINAGE PIPES, CULVERTS, AND DITCHES. THE CONTRACTOR SHALL ROUTINELY INSPECT AND MAINTAIN THESE DEVICES. ALL CHECK DAMS AND RIPRAP SHOWN ARE CLASS B UNLESS OTHERWISE STATED.

THE LOCATIONS OF EXISTING UTILITIES AND STORM DRAINAGE FACILITIES SHOWN ON THE PLANS ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE UTILITIES INFORMATION SHOWN ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATION OF ALL UTILITIES BEFORE CONSTRUCTION. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THAT THE PROPER COORDINATION WITH THE VARIOUS UTILITY OWNERS HAS BEEN PERFORMED. THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY DURING RELOCATION OPERATIONS.

THE LOCATION OF UTILITIES SHOWN IN THE PLANS SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS DESIGNATED BY A TEST HOLE. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, STORM DRAINS, UTILITIES AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR OR COORDINATE WITH UTILITY OWNERS TO REPAIR ANY DAMAGES DUE TO CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.

THE CONTRACTOR SHALL NOT STORE ANY MATERIALS OR EQUIPMENT WITHIN 15 FT OF THE EDGE OF TRAVEL WAY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PERMISSION TO STORE EQUIPMENT ON ADJACENT PROPERTIES.

PIPE LENGTHS THAT ARE SHOWN ON THE PLANS ARE ROUNDED TO THE NEAREST 4' INCREMENT AND CALCULATED ALONG THE PIPE SLOPE FROM CENTER OF BOX TO CENTER OF BOX. FIELD ADJUSTMENTS OF THE ACTUAL PIPE LENGTHS MAY BE NECESSARY.

ANY COSTS ASSOCIATED WITH REMOVING EXISTING PIPE SHALL BE INCLUDED IN THE COST OF PLACING NEW PIPE.

FINAL SURFACE COURSE ON ALL ROADWAYS SHALL NOT BE PLACED UNTIL ALL DRAINAGE AND CURB AND GUTTER INSTALLATIONS ARE COMPLETE.

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN PROPER DEWATERING PROCEDURES TO PREVENT THE FLOW AND ACCUMULATION OF SURFACE AND GROUND WATER IN EXCAVATED AREAS. ALL OF THE WATER PUMPED OR DRAINED SHALL BE DISPOSED OF WITHOUT UNDUE INTERFERENCE WITH OTHER WORK OR DAMAGE TO PAVEMENTS AND OTHER SURFACES OR PROPERTY. DISCHARGED WATER FROM ALL DEWATERING OPERATIONS SHALL BE FILTERED IN ACCORDANCE WITH SCDHEC OR OCRM REGULATIONS OR AS APPROVED BY THE ENGINEER. A PLAN FOR DEWATERING SHALL BE SUBMITTED TO THE RESIDENT CONSTRUCTION ENGINEER AND OCRM FOR APPROVAL PRIOR TO ANY WORK BEING PERFORMED WHERE DEWATERING IS REQUIRED. ONCE APPROVED AN ADDITIONAL COPY OF THE PLAN SHOULD BE PROVIDED TO GEORGETOWN COUNTY PUBLIC WORKS.

THE CONTRACTOR SHALL PROVIDE A DETAILED CONTRACTOR'S EROSION CONTROL PLAN TO THE RESIDENT CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO COMMENCING ANY WORK ON THE PROJECT.

THE CONTRACTOR SHALL PROVIDE A DETAILED TRAFFIC CONTROL PLAN TO THE RESIDENT CONSTRUCTION MANAGER FOR APPROVAL BEFORE STARTING ANY WORK ON THE PROJECT. THIS PLAN SHALL INCLUDE DETAILS CONCERNING PLACEMENT OF REFLECTORIZED BARRELS, CONES, AND/OR TYPE 2 BARRICADES IN ACCORDANCE WITH THE 2009 MUTCD.

THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING, AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES AND UTILITIES OR TO MINIMIZE TRENCH WIDTH AS REQUIRED. PAYMENT FOR SUCH MEASURES IS INCLUDED IN THE BID PRICE FOR THE ITEM BEING CONSTRUCTED.

WHERE STORM PIPES AND STRUCTURES ARE IDENTIFIED TO BE ABANDONED IN PLACE, THE FOLLOWING PROCEDURES SHALL BE UTILIZED:

PIPES: PLUG END(S) WITH BRICK AND GROUT. STRUCTURES: REMOVE RIM/COVER AND CONE OR TOP SLAB.

PLUG PIPE OPENINGS WITH BRICK AND GROUT. FILL STRUCTURE WITH FLOWABLE FILL TO BOTTOM OF PAVEMENT SECTION. TEMPORARY ASPHALT IF NEEDED.

ANY COSTS ASSOCIATED WITH ABANDONING PIPES OR STRUCTURES SHALL BE INCLUDED IN THE COST OF PLACING NEW PIPE OR STRUCTURES ACCORDINGLY. W20-1-48-A

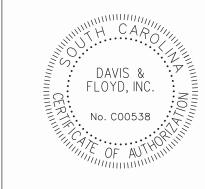
CONSTRUCTION SIGNS: CONSTRUCTION SIGN SETS SHALL BE PLACED ALONG BOTH APPROACHES OF THE ROADWAY INTERSECTING WITH THE PROJECT ROADWAY. ROAD WORK AHEAD AND DIRECTIONAL ARROW SIGNS ARE TO BE PLACED APPROXIMATELY 100' IN ADVANCE OF THE INTERSECTION OF THE ROAD UNDER CONSTRUCTION. END ROAD WORK SIGN SHOULD BE PLACED 50' AFTER THE SECOND INTERSECTION WITH THE PROJECT ROADWAY. DISCRETION SHOULD

W20-1-48-5 BE USED IN PLACEMENT OF THE SIGNS, NO SIGHTLINES FROM ROADWAYS OR DRIVEWAYS SHOULD BE AFFECTED BY THE PLACEMENT OF THE SIGNS. WORK ROAD WORK G20-2-48

WORK

AHEAD

M6-1-21





STONE SHALL BE INCLUDED IN THE COST OF THE STONE.



SINCE 1954

DATE DESCRIPTION OF REVISION REV. NO. JJG DATE

\ I' PIPE BEDDING

NOTE: SEE CROSS SECTION STA. 13+13.94 FOR FURTHER DETAIL

BE MODIFIED PER DIRECTION OF THE ENGINEER TO FIT FIELD CONDITIONS. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS SHOWN ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO

PAVE ALL DRIVEWAYS TO R/W LINE. UNLESS THE DRIVEWAY IS LABELED, THE STANDARD DRIVEWAY RADIUS IS 10'. THIS MAY

THE ENGINEER RESERVES THE RIGHT TO ADJUST THE LOCATION OF ALL PROPOSED IMPROVEMENTS TO MEET FIELD CONDITIONS IF NECESSARY.

STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

ALL DISTURBED AREAS SHALL BE SEEDED AFTER GRADING IS COMPLETE OR WITHIN 7 DAYS AFTER WORK STOPS IN AN AREA UNLESS WORK IS TO RESUME IN THAT AREA IN LESS THAN 21 DAYS.

NOTE:

- 1. SEE SCDOT STANDARD DRAWING NO. 625-305-00 FOR PAVEMENT MARKING DETAILS.
- 2. SEE SCDOT STANDARD DRAWING NO. 651-110-00 FOR FLAT SHEET MOUNTING DETAILS.
- 3. IF A SIGN MARKED TO BE RELOCATED IS DAMAGED BY THE CONTRACTOR, THE CONTRACTOR IS RESPONSIBLE FOR REPLACING THE SIGN.
- 4. CONTRACTOR IS TO SAW-CUT CONNECTIONS TO EXISTING ROADWAYS AND/OR DRIVEWAYS WHERE APPLICABLE.
- 5. CONTRACTOR IS TO PAVE DRIVEWAY APRONS TO RIGHT-OF-WAY LIMITS.

OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING CONSTRUCTION.

STANDARD SYMBOLS

shiphy

	250	22/07/98/23	NORTH CAROLINA	MARSH/SWAMP	nothered	DILLI DING	FRAME
CONCRETE MARKER	□ STA	TE LINE -	SOUTH CAROLINA	PAMPAS GRASS	*	BUILDING	DWLG.
R/W MONUMENT	100		RICHLAND COUNTY		0.0 11 101		
PROPERTY CORNER	O COU	NTY LINE -	LEXINGTON COUNTY	BENCHMARK	⊕ B.M. 124	RIVERS, CREEKS, STREAMS	
PROPERTY PIN	0 617		COLUMBIA CITY LIMITS	SPOT ELEVATION	37.612	EXISTING BOX CULVERT	
	611	Y LIMITS -	ODCOMDIN STIT CIMITS	FILL CAP FOR UNDERGROUND	TANK 6	NEW BOX CULVERT	
SIGN	PRE	SENT HT-QF-WAY —	RR	WITNESS POST	(0)		
NEW SIGN	/PR	OPERTY LINE	PRESENT 50' R/W	PARKING METER	•	BRIDGE	
ELECTRIC PEDESTAL	PRE PRE	SENT HT-OF-WAY	PRESENT 33' R/W	ELECTRIC OUTLET/RESIDENT	rtai 6	NPDES	- NPDES NPDES NPDES -
UNDERGROUND TANK	/EX	ISTING TROL OF ACCESS	ROADWAY SIDE		(m)	DRIVING DITCHES	
WELL	তা	RIGHT-OF-WAY —	NEW 50' R/W	VACUUM/COMMERCIAL		DRAINAGE DITCHES	
AIR CONDITIONER	A/C	RIGHT-UF-WAT		SEDIMENT DAM	\bigcirc	NEW DRAINAGE STRUCTURES	II. Hu. > alle. • >
COLUMN	NEW	RIGHT-OF-WAY W CONTROL	NEW 45' R/W	SEDIMENT FILTER		EXISTING DRAINAGE	
	OF OF	W CONTROL =	ROADWAY SIDE	TREE/SHRUB (NOT SURVEYED	11 W 0	STRUCTURES/PIPE -==	
RADIO/TV/CELLULAR TOWER	(6)		22'C _ 24'F 21'C	TREE/SHRUB (SURVEYED)	0 0	NEW PIPE	
SATELLITE DISH	Q CON	STRUCTION -	[[7]			EXISTING PIPE -==	
GRAVE	IX3 EXI	STING FENCE	_xxxxx_	WOODED AREA OUTLINE	~~~~~~		
SPRING	R	FENCE	x x x x x	TREE LINE	0000000	NORTH ARROW	7
GEODETIC MARKER	æ.			R/R CROSSING ARM	(9.78)	FACE OF CURB	FOC———FOC—
	EXI	STING PAVED ROAD	3	R/R MILE POST	M/F	RAILROAD TRACK	
FLOOD/GROUND LIGHT	A EXI	STING DIRT ROAD	t:::::::::::::::::::::::::::::::::::::	R/R SIGNAL	X	EXISTING GUARDRAIL W/	
TELEPHONE BOX	EXI	STING PAVED ROAD		R/R SIGNAL BOX	原/用	TYPE B END TREATMENT	4 4 4 4
WATER SPIGOT		H CURB & GUTTER		N/N STORAL DUA	131.11	NEW GUARDRAIL	
SPRINKLER	₩ NEW	PAINTED MEDIAN	VIII			TYPE T	
FLAG POLE	NEW	CONCRETE SIDEWALK/ DIAN/DITCH GUTTER	ENTERINED			END TREATMENT	

INCLUSION ITEMS

THE FOLLOWING QUANTITIES ARE NOT SHOWN IN DETAIL ON THE PLANS BUT ARE INCLUDED IN THE SUMMARY OF ESTIMATED

OLIANTITIES AND MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER

DESCRIPTION	UNIT	QUANTITY	DESCRIPTION
FINE GRADING	LS	NEC	WHERE DIRECTED BY ENGINEER
UNCLASSIFIED EXCAVATION	CY	250.000	FOR STRIPPING
BORROW EXCAVATION	CY	325.000	FILL FOR STRIPPING
NO. 57 STONE FOR BACKFILL ¹	TON	15.000	AS DIRECTED BY ENGINEER FOR PIPE BEDDING
MUCK EXCAVATION	CY	300,000	FOR UNSUITABLE MATERIAL
MAINTENANCE STONE	TON	20.000	WHERE DIRECTED BY ENGINEER
PERMANENT VEGETATION	MSY	2.141	FOR ALL DISTURBED AREAS
TEMPORARY VEGETATION	MSY	2.141	FOR ALL DISTURBED AREAS
PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	SF	86,000	WHERE DIRECTED BY ENGINEER
STABILIZED CONSTRUCTION ENTRANCE	SY	140.000	WHERE DIRECTED BY ENGINEER

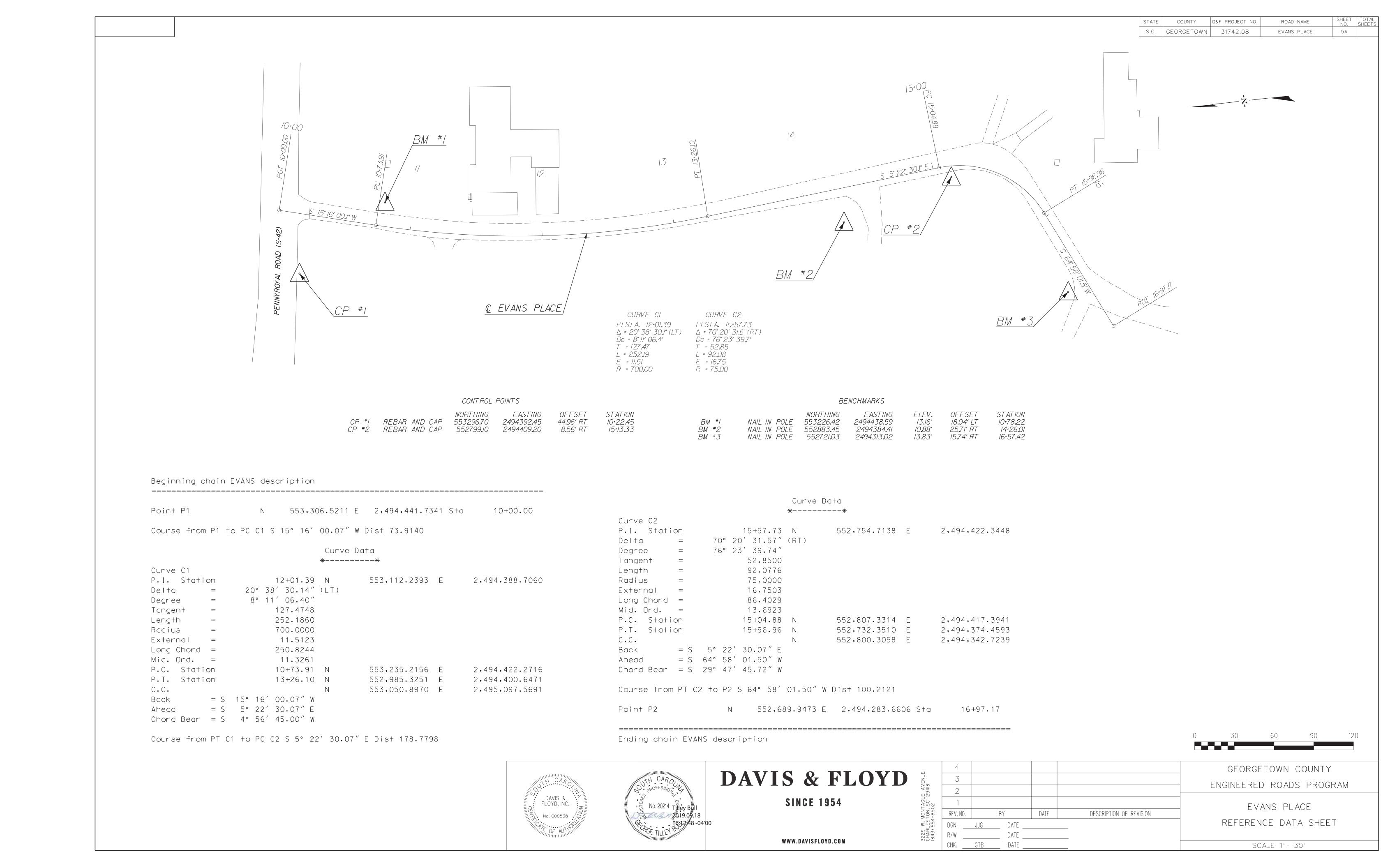
TRIPLE CULVERT INSTALLATION TYPICAL SECTION (NOT TO SCALE) SURFACE COURSE TYPE (AGGREGATE BASE COURSE STRUCTURAL BACKFILL GEOTEXTILE

> GEORGETOWN COUNTY ENGINEERED ROADS PROGRAM

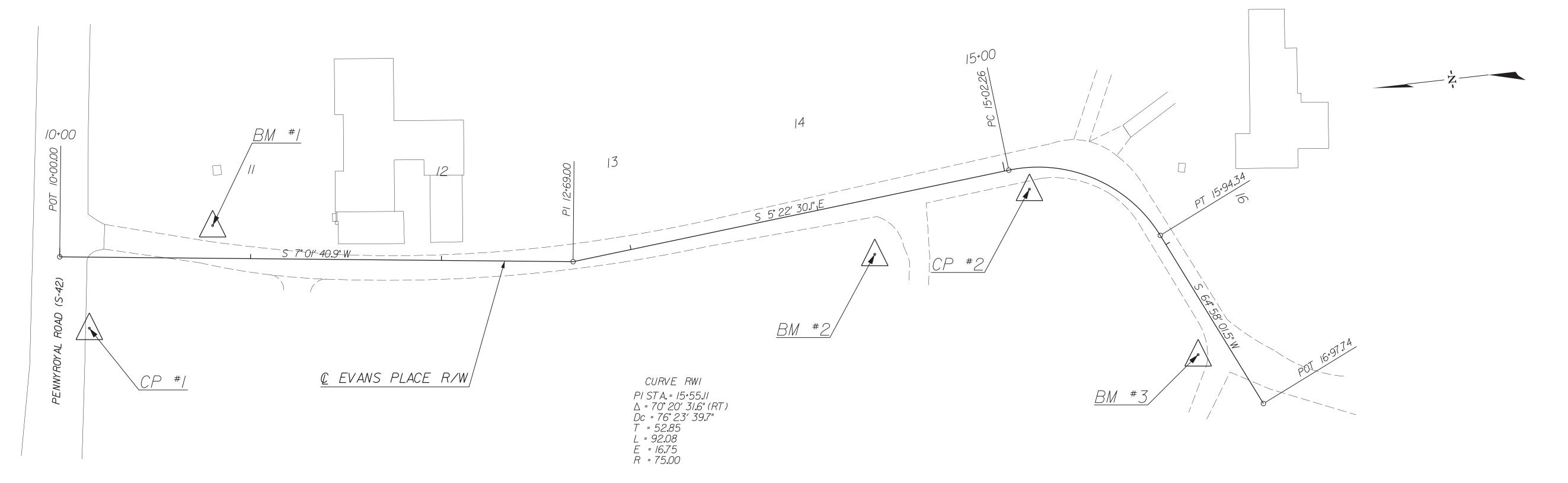
> > EVANS PLACE

GENERAL CONSTRUCTION NOTES

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STATE | COUNTY | D&F PROJECT NO. | ROAD NAME S.C. GEORGETOWN 31742.08 EVANS PLACE 5B



Beginning chain EVANS-RW description

Point RW1

N 553,307.8947 E 2,494,431.3436 Sta 10+00.00

Course from RW1 to RW2 S 7° 01′ 40.91″ W Dist 269.0012

N 553,040.9147 E 2,494,398.4300 Sta 12+69.00 Point RW2

Course from RW2 to PC RW1 S 5° 22′ 30.07″ E Dist 233.2610

Curve Data *----*

Curve RW1							
P.I. Stati	on		15+55.11	Ν	552,756.0618	Ε	2,494,425.2312
Delta	=	70° 20	oʻ 31.57"	(RT)			
Degree	=	76° 23	3′ 39.74″				
Tangent	=		52.8500				
Length	=		92.0776				
Radius	=		75.0000				
External	=		16.7503				
Long Chord	=		86.4029				
Mid. Ord.	=		13.6923				
P.C. Stati	on		15+02.26	Ν	552,808.6794	Ε	2,494,420.2806
P.T. Stati	on		15+94.34	Ν	552,733.6990	Ε	2,494,377.3458
C.C.				Ν	552,801.6538	Ε	2,494,345.6104
Back	= S	5° 22′	30.07″ E				
Ahead	= S 6	4° 58′	01.50" W				
Chord Bear	= S 2	9° 47′	45.72" W				

Course from PT RW1 to RW3 S 64° 58′ 01.50″ W Dist 103.3978

N 552,689.9473 E 2,494,283.6606 Sta Point RW3 16+97.74

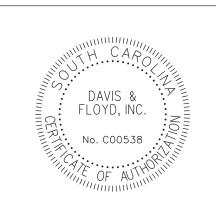
Ending chain EVANS-RW description



		NORTHING	EASTING	OFFSET	STATION
CP #1	REBAR AND CAP	553296.70	<i>2494392.45</i>	37.23′ RT	10+15 . 87
CP #2	REBAR AND CAP	552799.10	2494409.20	11 .4 1′ RT	<i>15+12.37</i>

BENCHMARKS

BM #1 NAIL IN POLE 553226.42 2494438.59	13.16′	17.16′ LT	10+79.98
BM #2 NAIL IN POLE 552883.45 2494384.41	10.88′	28.71′ RT	14+24.46
BM #3 NAIL IN POLE 552721.03 2494313.02	13.83′	15.74′ RT	16+57.99





DAVIS & FLOYD

SINCE 1954

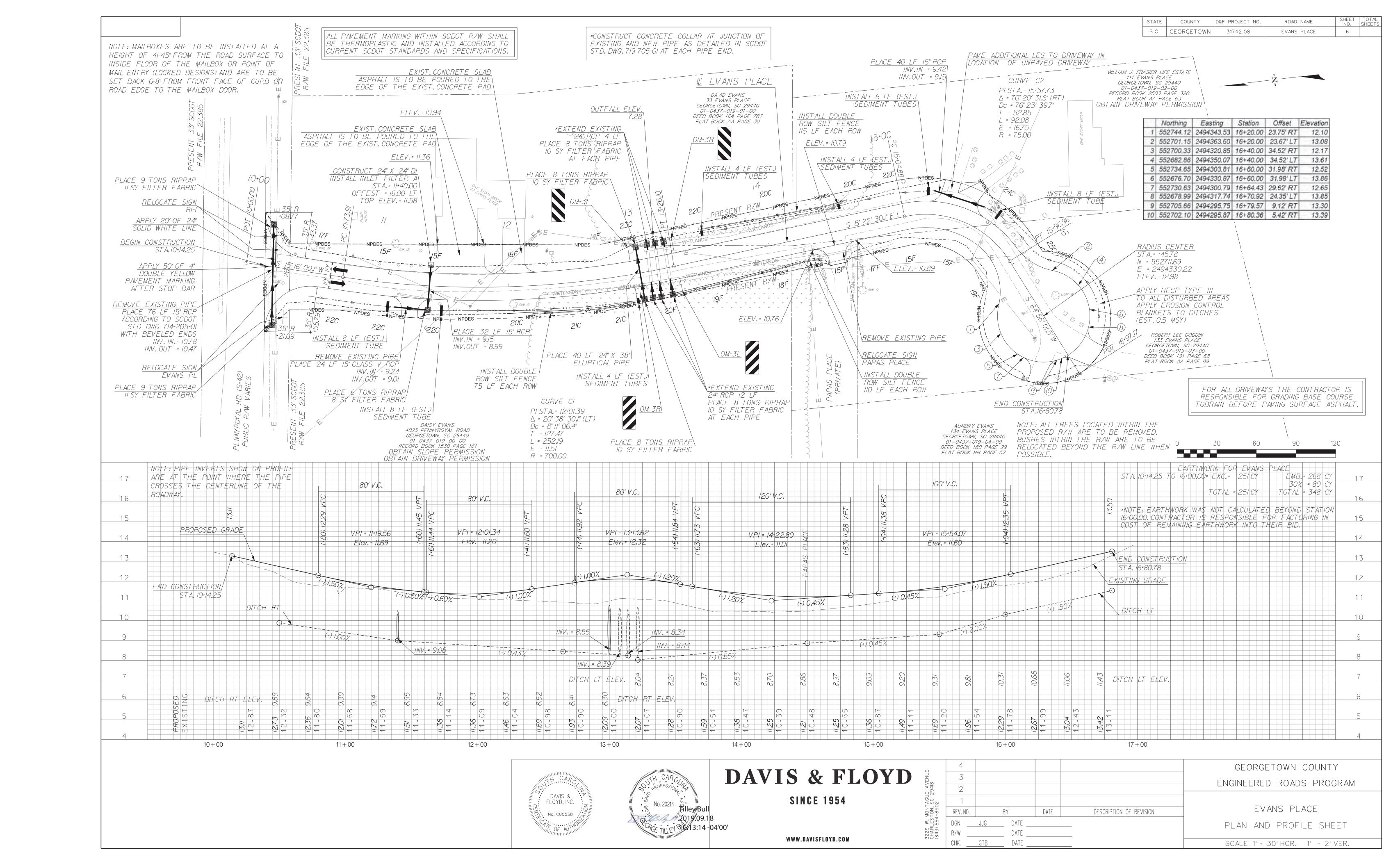
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1.1	4				
3229 W. MONTAGUE AVENUE CHARLESTON, SC 29418 (843) 554-8602	3				
E AV 29418	2				
TAGU SC 32	1				
MON 10N,	REV. NO.	В	Υ	DATE	DESCRIPTION OF REVISION
W. I RLEST 554	DGN	JJG	DATE		
3229 3445 3433	R/W		DATE		
1.,00	CHK.	GTB	DATE		

GEORGETOWN COUNTY
ENGINEERED ROADS PROGRAM
EVANS PLACE
DEFEDENCE DATA CHEET

REFERENCE DATA SHEET

SCALE 1''= 30'



OCRM STANDARD NOTES

- 1. If necessary, slopes which exceed eight (8) feet should be stabilized with synthetic or vegetative mats, in addition to hydroseeding. It may be necessary to install temporary slope drains during construction. Temporary berms may be needed until the slope is brought to grade.
- 2. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than fourteen (14) days after work has ceased, except as stated below:

 *Where stabilization by the 14th day is precluded by snow cover or frozen ground conditions stabilization measures must be initiated as soon as practicable.

 *Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 14 days, temporary stabilization measures do not have to be initiated on that portion of the site.
- 3. All sediment and erosion control devices shall be inspected once every calendar week. If periodic inspection or other information indicates that a BMP has been inappropriately or incorrectly installed, the Permittee must address the necessary replacement or modification required to correct the BMP within 48 hours of identification.
- 4. Provide silt fence and or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded, and stabilized immediately after the utility installation. Fill, cover, and temporary seeding at the end of each day are recommended. If water is encountered while trenching, the water should be filtered to remove any sediments before being pumped back into any waters of the state.
- 5. All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been stabilized. Additional control devices may be required during construction in order to control erosion and or offsite sedimentation. All temporary control devices shall be removed once construction is complete and the site is stabilized.
- 6. The contractor must take necessary action to minimize the tracking of mud onto paved roadway(s) from the construction area and the generation of dust. The contractor shall daily remove mud/soil from pavement, as may be required.
- 7. Residential subdivisions require erosion control features for infrastructure as well as for individual lot construction. Individual property owners shall follow these plans during construction or obtain approval of an individual plan in accordance with S.C. REG. 72-300 ET SEQ. and SCR100000.
- 8. Temporary diversion berms and or ditches will be provided as needed during construction to protect work areas from upslope runoff and or to divert sediment laden water to appropriate traps or stable outlets.
- 9. All waters of the state (WOS), including wetlands, are to be flagged or otherwise clearly marked in the field. A double row of silt fence is to be installed in all areas where a 50-foot buffer can't be maintained between the disturbed area and all WOS. A 10-foot buffer should be maintained between the last row of silt fence and all WOS..
- 10. Litter, construction debris, oils, fuels, and building products with significant potential for impact (such as stockpiles of freshly treated lumber) and construction chemicals that could be exposed to storm water must be prevented from being a pollutant source in storm water discharges.
- 11. A copy of the SWPPP, inspections records, and rainfall data must be retained at the construction site or a nearby location easily accessible during normal business hours, from the date of commencement of construction activities to the date that final stabilization is reached.
- 12. Initiate stabilization measures on any exposed steep slope (3H:1V or greater) where land-disturbing activities have permanently or temporarily ceased, and will not resume for a period of 7 calendar days.
- 13. Minimize soil compaction and, unless infeasible, preserve topsoil.
- 14. Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
- 15. Minimize the discharge of pollutants from dewatering of trenches and excavated areas.

 These discharges are to be routed through appropriate BMPs (sediment basin, filter bag, etc.).

 16. The following discharges from sites are prohibited:
- *Wastewater from washout of concrete, unless managed by an appropriate control;

 *Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;

 *Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and *Soaps or solvents used in vehicle and equipment washing.
- 17. After construction activities begin, inspections must be conducted at a minimum of at least once every calendar week and must be conducted until final stabilization is reached on all areas of the construction site.
- 18. If existing BMPs need to be modified or if additional BMPs are necessary to comply with the requirements of this permit and/or SC's Water Quality Standards, implementation must be completed before the next storm event whenever practicable. If implementation before the next storm event is impracticable, the situation must be documented in the SWPPP and alternative BMPs must be implemented as soon as reasonably possible.
- 19. A Pre-Construction Conference must be held for each construction site with an approved On-Site SWPPP prior to the implementation of construction activities. For non-linear projects that disturb 10 acres or more this conference must be held on-site unless the Department has approved otherwise.

SEEDING INSTALLATION

- A. Seed all disturbed areas of construction (excluding riprap lined ditches).
- B. No seeding should be undertaken in windy or unfavorable weather, when the ground is too wet to rake easily, when it is in a frozen condition, or too dry.
- C. The subgrade of all areas to be seeded shall be raked and all rubbish, sticks, roots, and stones larger than 2 IN shall be removed.
- D. Fertilizer shall be uniformly spread and disked or roto-tilled to a depth of at least 4 IN.
- E. Immediately following this preparation the seed shall be uniformly applied and lightly raked into the surface. Lightly roll the surface and water with fine spray. Seed shall be applied, depending on the period of year, at the rates indicated in Section 810 of the SCDOT Standard Specifications for Highway Construction (Edition 2007).
- All seeded areas shall be mulched with clean small-grain straw at a rate of $1\frac{1}{2}$ to 2 tons per acre. Asphalt emulsion shall be applied uniformly at a rate of 300 GAL per acre to tack the mulch, unless otherwise shown on the plans. Mechanical tacking will be considered on a case-by-case basis as approved by the Engineer.
- F. All seeded areas shall be watered and maintained in good condition. Reseeding shall be done if and when necessary until a good, healthy, uniform growth is established over the entire area seeded.
- G. Slopes shall be protected against washouts by an approved method. Any washout which occurs shall be regraded and reseeded until good sod is established.

NARRATIVE DESCRIPTION

Ditches will be cut on both sides of the proposed roadway conveying stormwater to the crossline pipes. Sediment tubes and silt fence will be used in the proposed ditches and around the perimeter of the project disturbance area to control sediment leaving the project area. The topography of the project site is very flat. The soils on the project consist of Yauhannah loamy fine sand, an A/D hydrologic group soil, and Bladen loam, an C/D hydrologic group soil. There are 6 houses located on the properties adjacent to the project.

SEQUENCE OF CONSTRUCTION

STATE COUNTY

s.c. | Georgetown | 31742.08

D&F PROJECT NO.

ROAD NAME

EVANS PLACE

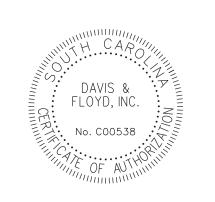
EC1

- A. Obtain all permits.
- B. Contact the office of Ocean and CoastalResource Management (OCRM) at (843)238-4528 prior to commencing construction activities.
- C. Install sediment erosion controls as follows:
- 1. Silt Fences shall be used to prevent silt from leaving the limits of construction.
- 2. Stabilized Graveled Construction Entrances shall be used at locations where construction vehicles access public non-construction areas. Vehicles shall be washed down as necessary to prevent tracking of silt offsite.
- 3. A temporary rock filter dam or sediment tube shall be used as ditch checks as directed by the Engineer.
- 4. Adhere by all of the OCRM Standard Notes listed on the right of this sheet and install BMP's per the SCDOT Standard Drawings for Erosion Control.
- D. A recommended sequence of construction follows:
- 1. Clear and grub only areas necessary for perimeter erosion and sediment control silt fence, hay bales, and temporary sediment traps.
- 2. Construct perimeter controls.
- 3. Construct new drainage appurtenances within the areas protected by perimeter controls.
- 4. Install protection around inlets and stabilize disturbed areas as soon as possible (within 7 calendar days).
- 5. Proceed with construction. Limit disturbed areas to areas with work in progress to limit disruption to traffic. Schedule work to maintain access to all driveways as long as possible.
- 6. Erosion controls may be removed after the area contributing flow to that particular erosion control device has been stabilized.
- 7. Stabilize all remaining areas.
- 8. Clean out temporary sediment control as needed; check controls every seven (7) days.
- 9. Remove sediment controls 30 days after all disturbed areas have stabilized.

STANDARD EROSION CONTROL DRAWINGS

DRAWING NO.	DRAWING DESCRIPTION	LATEST REVISION
804-305-01 804-305-02 804-305-03 804-310-00 815-001-01 815-205-00	OUTLET PROTECTION WITH NO DEFINED CHANNEL OUTLET PROTECTION WITH NO DEFINED CHANNEL OUTLET PROTECTION WITH NO DEFINED CHANNEL OUTLET PROTECTION WITH DEFINED CHANNEL TYPE A INLET STRUCTURE FILTERS SEDIMENT TUBE DITCH APPLICATION	7/2017 7/2017 7/2017 7/2017 7/2017 7/2017
815-605-00	TEMPORARY EROSION & SEDIMENTATION CONTROL	7/2017

Copies of SCDOT Standard Drawings are available at the following web address http://www.scdot.org/doing/sd_Disclaimer.aspx





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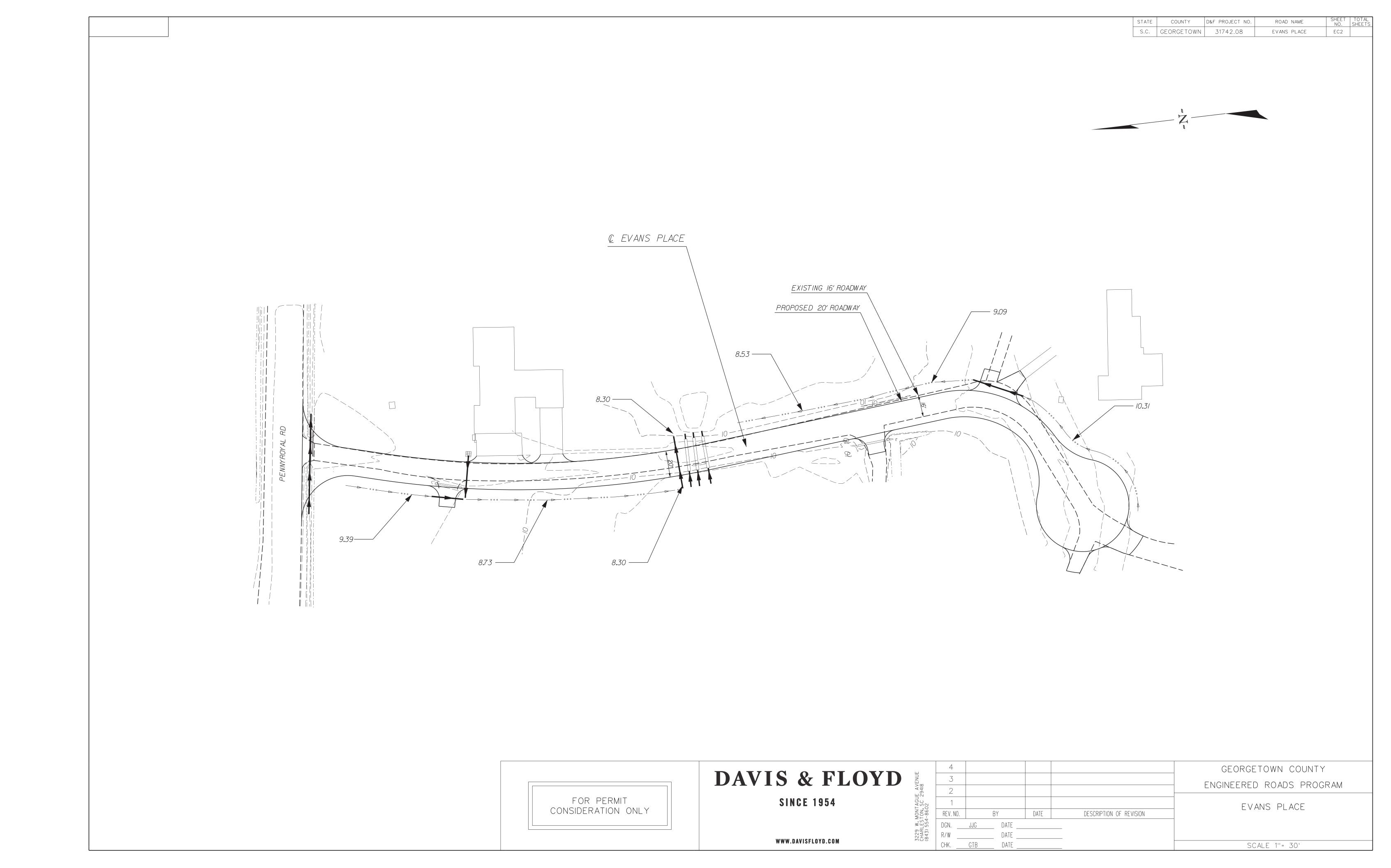
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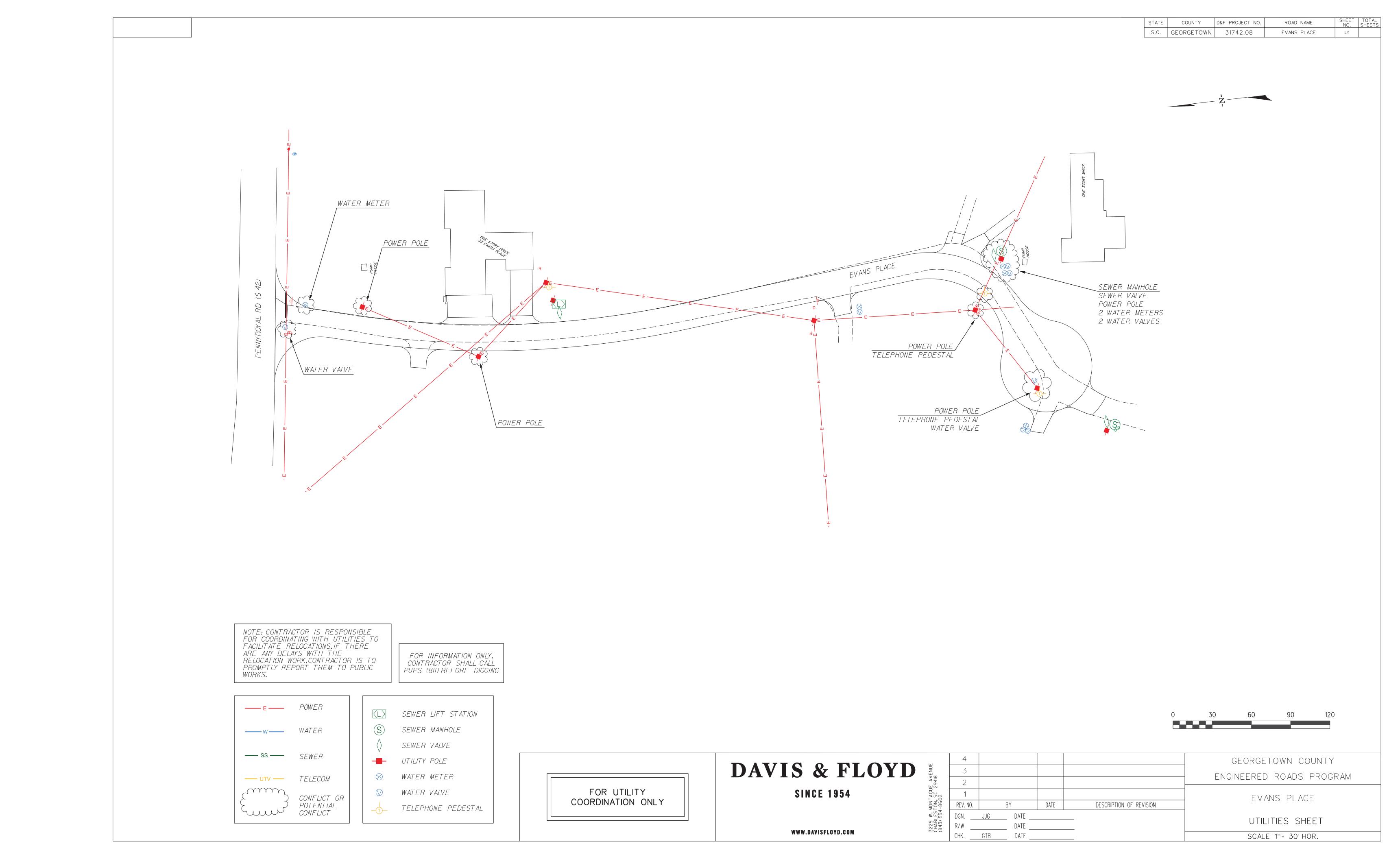
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ENUE	3				
W. MONTAGUE AVENUE ESTON, SC 29418 554-8602	2				
TAGU SC 32	1				
MON TON, -86(REV. NO.		BY	DATE	DESCRIPTION OF REVISION
W. I RES 554	DGN	JJG	DATE		
3229 CHARL (843) (R/W		DATE		
17.00	CHK	GTB	DATE		

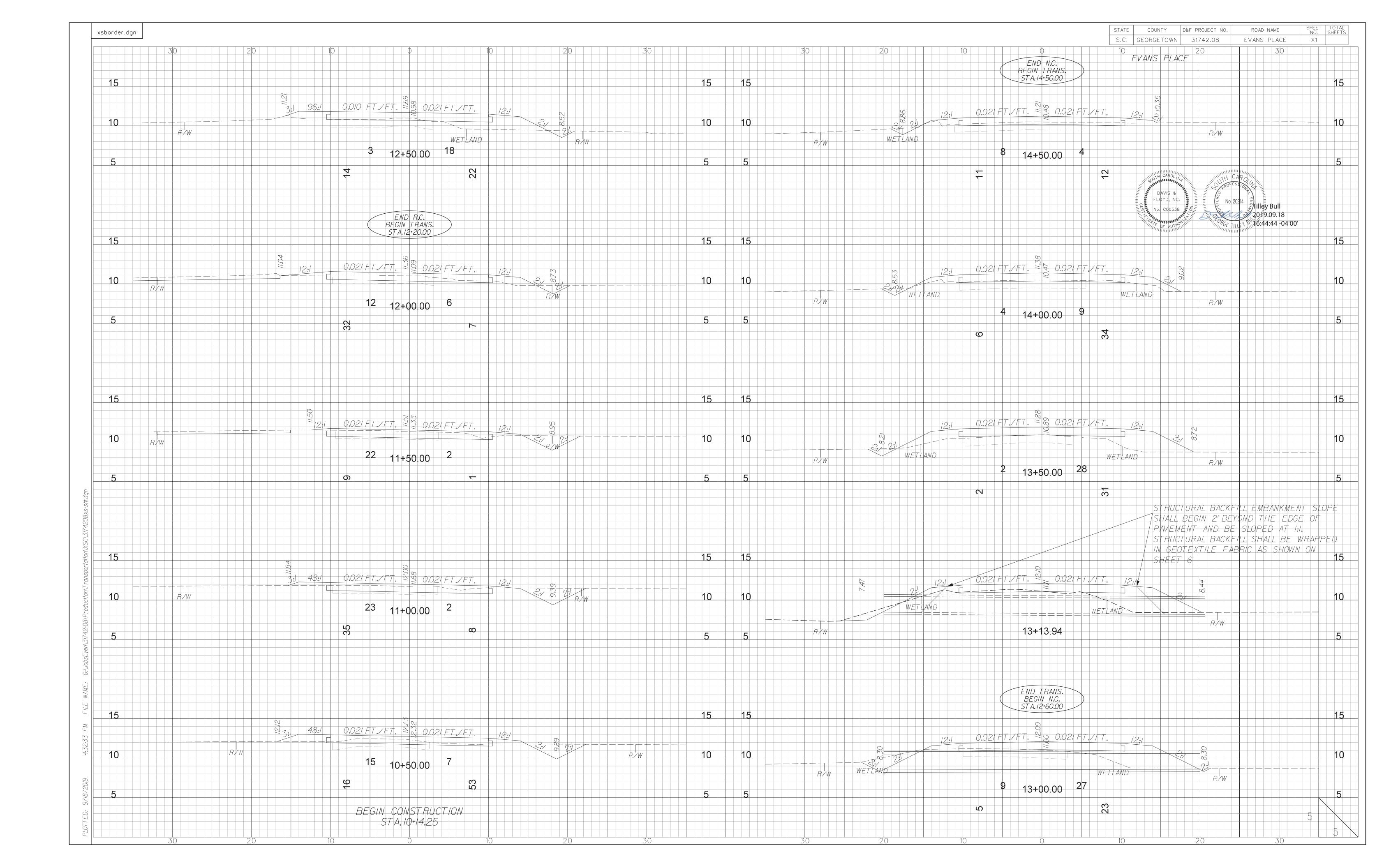
GEORGETOWN COUNTY ENGINEERED ROADS PROGRAM

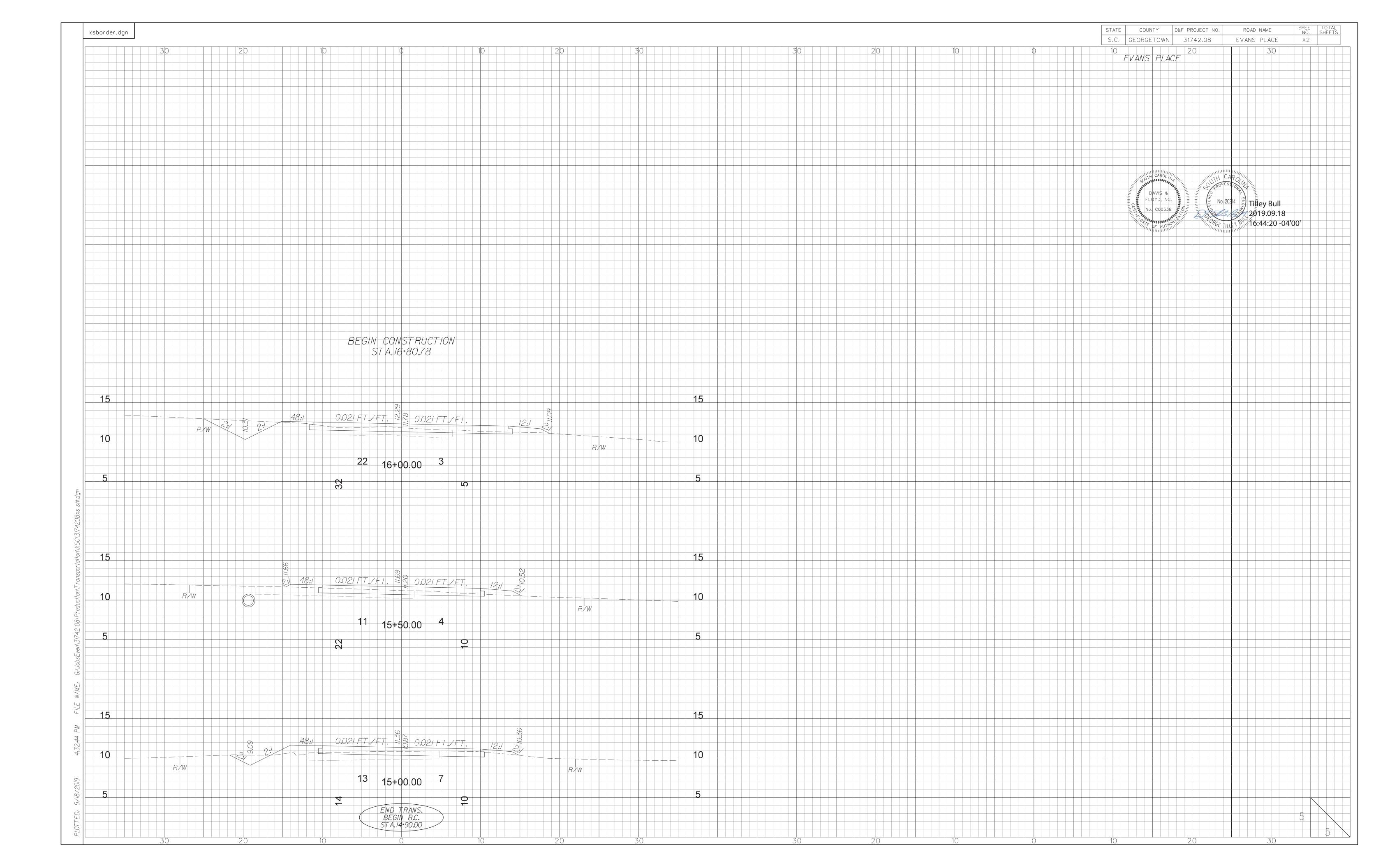
EVANS PLACE

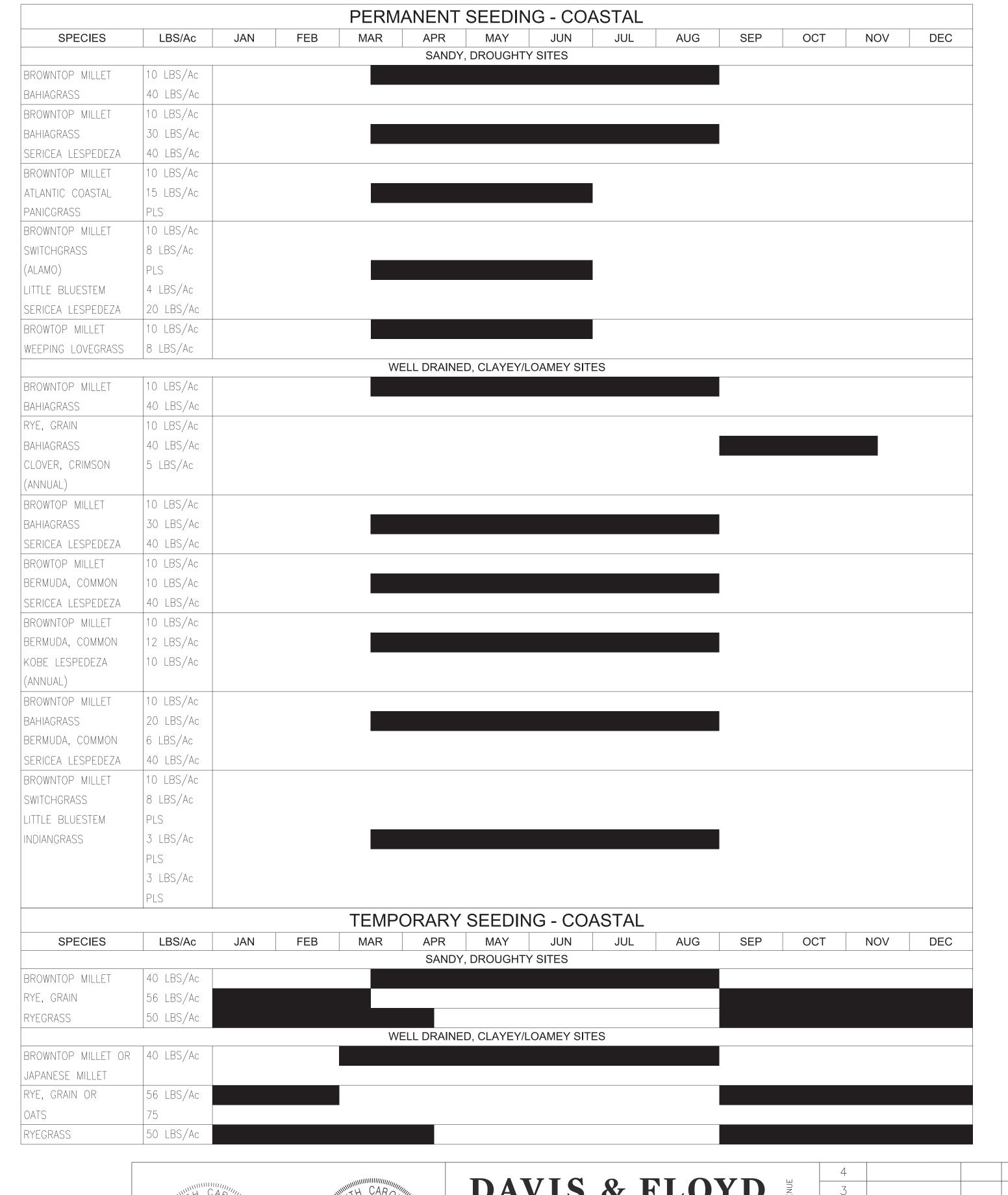
EROSION CONTROL NOTES









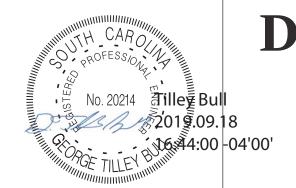


STATE | COUNTY | D&F PROJECT NO. | ROAD NAME s.c. Georgetown 31742.08 EVANS PLACE D01

NOTES:

- I) ANY REFERENCES TO PAYMENT IS SUPERCEDED BY PROJECT SPECIFICATIONS IN THE CONTRACT.
- 2) FIELD ADJUSTMENTS TO IMPLEMENT DETAILS MAY BE REQUIRED AND CAN BE APPROVED BY THE COUNTY RESIDENT CONSTRUCTION MANAGER OR THE PROJECT ENGINEER.





DAVIS & FLOYD

SINCE 1954

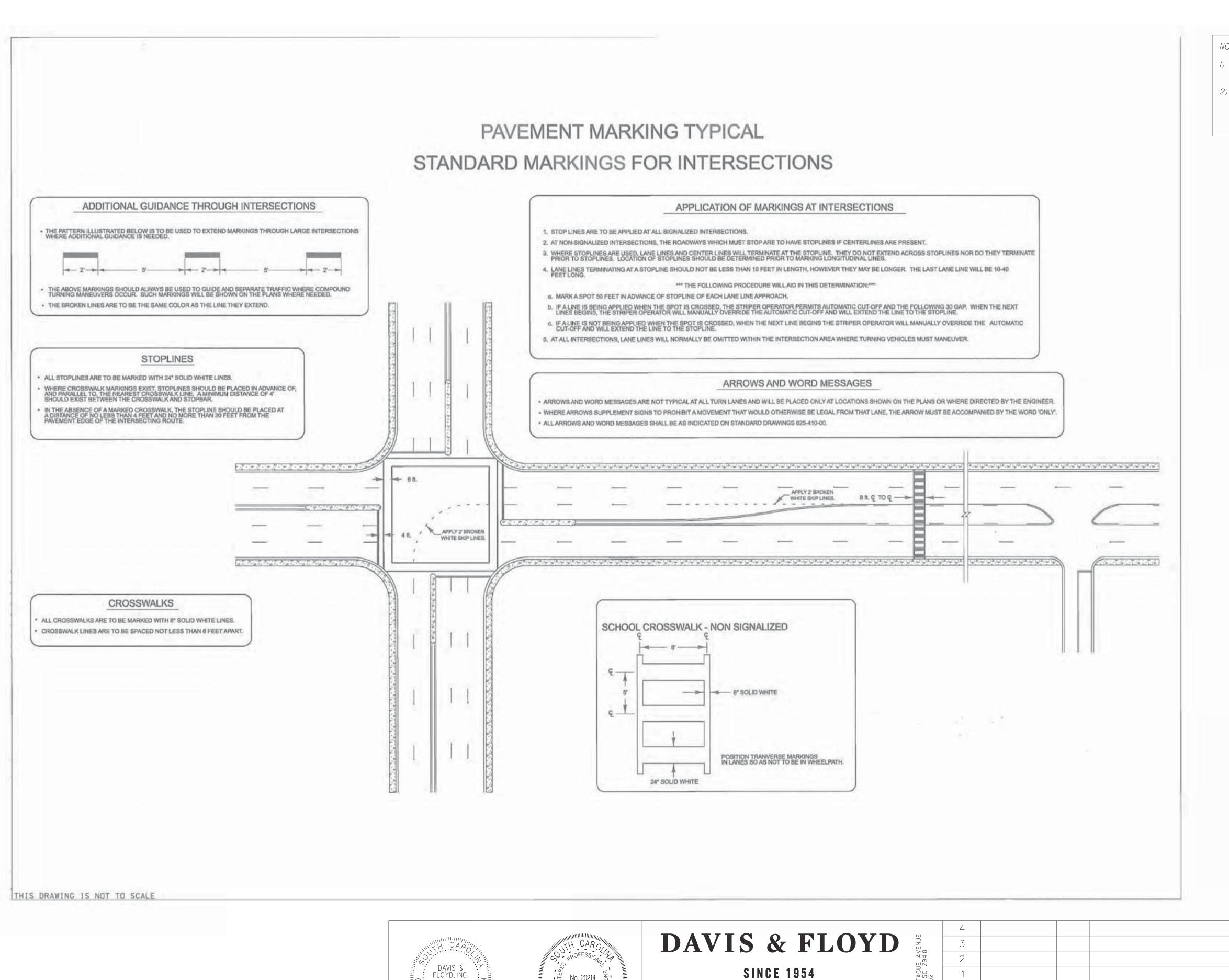
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3229 CHARI (843)	R/W		DATE			
1700	CHK	GTB	DATE			

GEORGETOWN COUNTY ENGINEERED ROADS PROGRAM

EVANS PLACE

SEEDING SCHEDULE



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COUNTY D&F PROJECT NO. ROAD NAME STATE s.c. | Georgetown | 31742.08 EVANS PLACE D02

NOTES:

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GEORGETOWN COUNTY

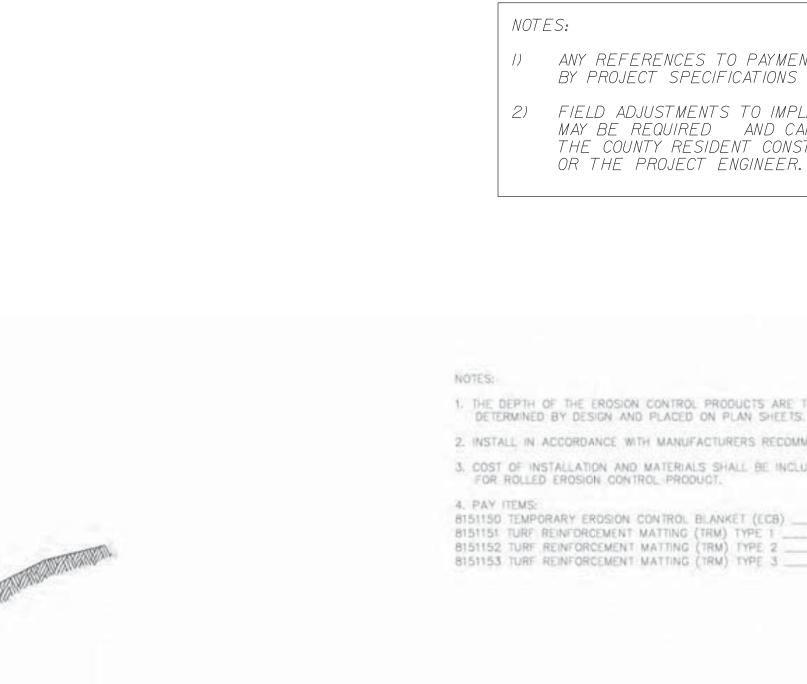
ENGINEERED ROADS PROGRAM

EVANS PLACE

PAVEMENT MARKINGS DETAIL

DESCRIPTION OF REVISION

DATE



STATE COUNTY

S.C. GEORGETOWN 31742.08

I) ANY REFERENCES TO PAYMENT IS SUPERCEDED BY PROJECT SPECIFICATIONS IN THE CONTRACT.

ROAD NAME

EVANS PLACE

D03

D&F PROJECT NO.

2) FIELD ADJUSTMENTS TO IMPLEMENT DETAILS MAY BE REQUIRED AND CAN BE APPROVED BY THE COUNTY RESIDENT CONSTRUCTION MANAGER OR THE PROJECT ENGINEER.

MINIMUM RIGHT OF WAY OFFSET FROM TOE OF SLOPE (NPOES LINE) MINIMUM SILT FENCE OFFSET FROM CHECK LENGTH (y) IN FEET TOE OF SLOPE IN FEET** SLOPE <6 2:1 12* 13* 5 6-10 3 2:1 13* 5 12* >10

*THESE MINIMUM OFFSETS MAY BE REDUCED WHEN CURB AND GUTTER OR SOME OTHER FEATURE REDUCES THE FLOW OF WATER DOWN THE SLOPE. THE SMALL OFFSETS OF EACH GROUP OF HEIGHT OF FILL CANNOT BE REDUCED. **SILT FENCE CHECKS WILL HAVE A MAXIMUM LENGTH OF FIVE (5) FEET OR UNTIL THEY TIE BACK INTO THE SLOPE.

SILT FENCE.

ACCESS AREA TO MAINTAIN SILT

FENCE

FILL SLOPE .

NOT TO SCALE

ACCESS AREA TABLE 815-605A R/W OR PERMISSION

(NPDES LINE)

SEE 815-605-10 FOR TEMPORARY DIVERSION DIKE

SEE 815-605-20 FOR TEMPORARY SILT DITCH

FILTER FABRIC

NATURAL GROUND

6'-0" MAX. POST SPACING

OR AS DIRECTED BY ENGINEER

SEE 815-605-30 FOR ROLLED EROSION CONTROL PRODUCT

1. SLT FENCE CHECKS MUST BE LOCATED EVERY 100 FEET MAXIMUM AND AT LOW POINTS. FILTER FABRICS SHALL CONFORM TO SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION), 2. USE POSTS CONFORMING TO SCOOT STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS. POSTS SHALL BE A MINIMUM OF 5 FEET LONG AND INSTALLED TO A MINIMUM DEPTH OF 24 INCHES WITH NO MORE THAN 3 FEET OF THE POST ABOVE GROUND. AT LEAST 1 TO 2 INCHES OF THE POSTS SHALL EXTEND ABOVE THE TOP OF

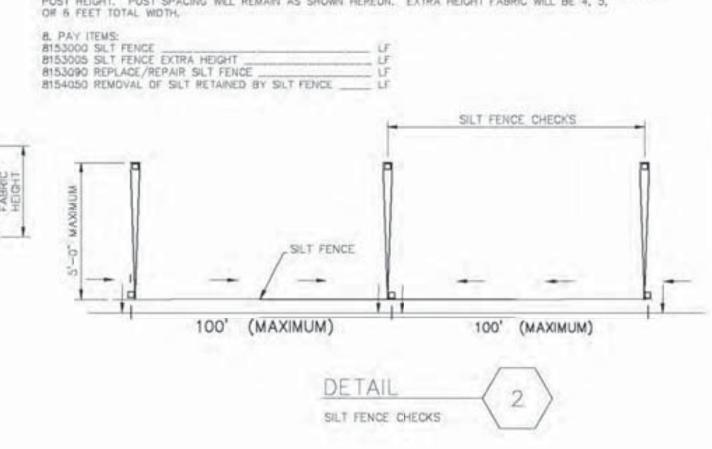
THE FABRIC. POST SPACING WILL BE A MAXIMUM OF 6 FEET ON CENTER

IL POSTS SHALL HAVE PROJECTIONS FOR FASTENING THE FABRIC TO THE POST. POSTS SHALL ALSO HAVE A SOIL PLATE NEAR THE BOTTOM OF THE POST, EXCEPT WHEN HEAVY CLAY SOILS ARE PRESENT ON-SITE. 4. ATTACH FABRIC TO POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED AND PLACED IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES TIES SHOULD BE AFFIXED IN NO LESS THAN 4 PLACES.

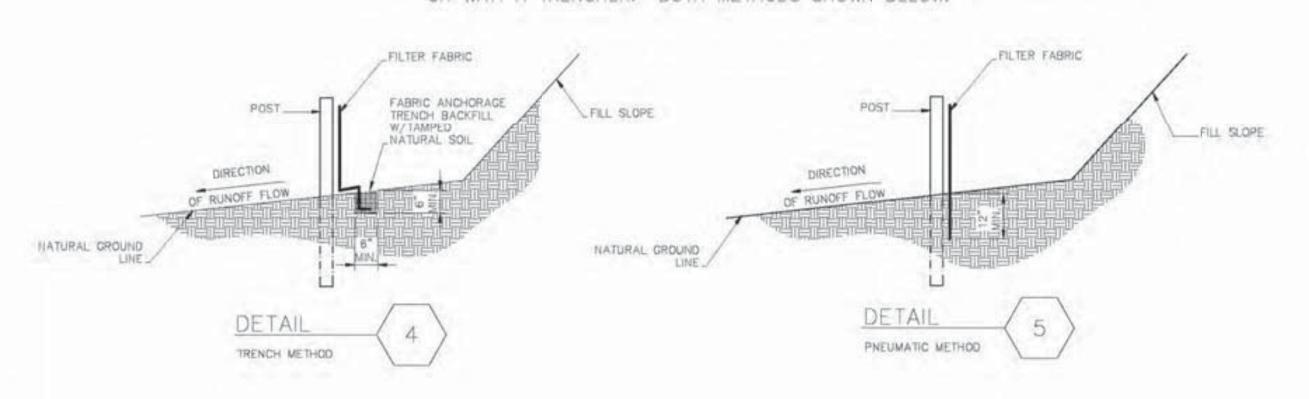
5, SILT SHALL BE REMOVED AND DISPOSED OF WHEN SILT ACCUMULATES TO & THE HEIGHT OF THE FENCE. TRAPPED SEDMENT SHALL BE REMOVED OR STABILIZED ON-SITE. MAINTENANCE OF SILT FENCE WILL BE MEASURED AND PAID FOR BY THE ITEM OF REMOVAL OF SILT RETAINED BY SILT FENCE.

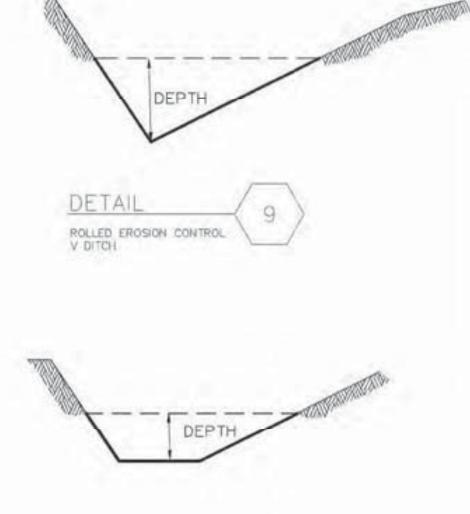
6. TYPICAL SILT FENCE APPLICATIONS REQUIRE 24 INCHES OF THE FABRIC TO BE ABOVE GROUND. WHEN NEEDED, THE HEIGHT OF SILT FENCE FABRIC ABOVE THE GROUND MAY BE GREATER THAN 24". SEE PLANS FOR APPLICATION OF HIGHER SILT FENCE, PAY ITEMS, AND INSTALLATION METHODS.

7. IN TIDAL AREAS, EXTRA SILT FENCE MAY BE REQUIRED. THE LENGTH OF POST WILL BE TWICE THE EXPOSED POST HEIGHT. POST SPACING WILL REMAIN AS SHOWN HEREON. EXTRA HEIGHT FABRIC WILL BE 4, 5,



12 INCHES OF THE FABRIC SHALL BE BURIED REGARDLESS, IF PLACED PNEUMATICALLY OR WITH A TRENCHER. BOTH METHODS SHOWN BELOW.





ROLLED EROSION CONTROL FLAT BOTTOM DITCH

1. THE DEPTH OF THE EROSION CONTROL PRODUCTS ARE TO BE DETERMINED BY DESIGN AND PLACED ON PLAN SHEETS.

2. INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

3. COST OF INSTALLATION AND MATERIALS SHALL BE INCLUDED IN THE PAY ITEM

8151150 TEMPORARY EROSION CONTROL BLANKET (ECB) 8151151 TURF REINFORCEMENT MATTING (TRM) TYPE 1 ____ 8151152 TURF REINFORCEMENT MATTING (TRM) TYPE 2 ____

DAVIS & FLOYD, INC. No. C00538



DAVIS & FLOYD

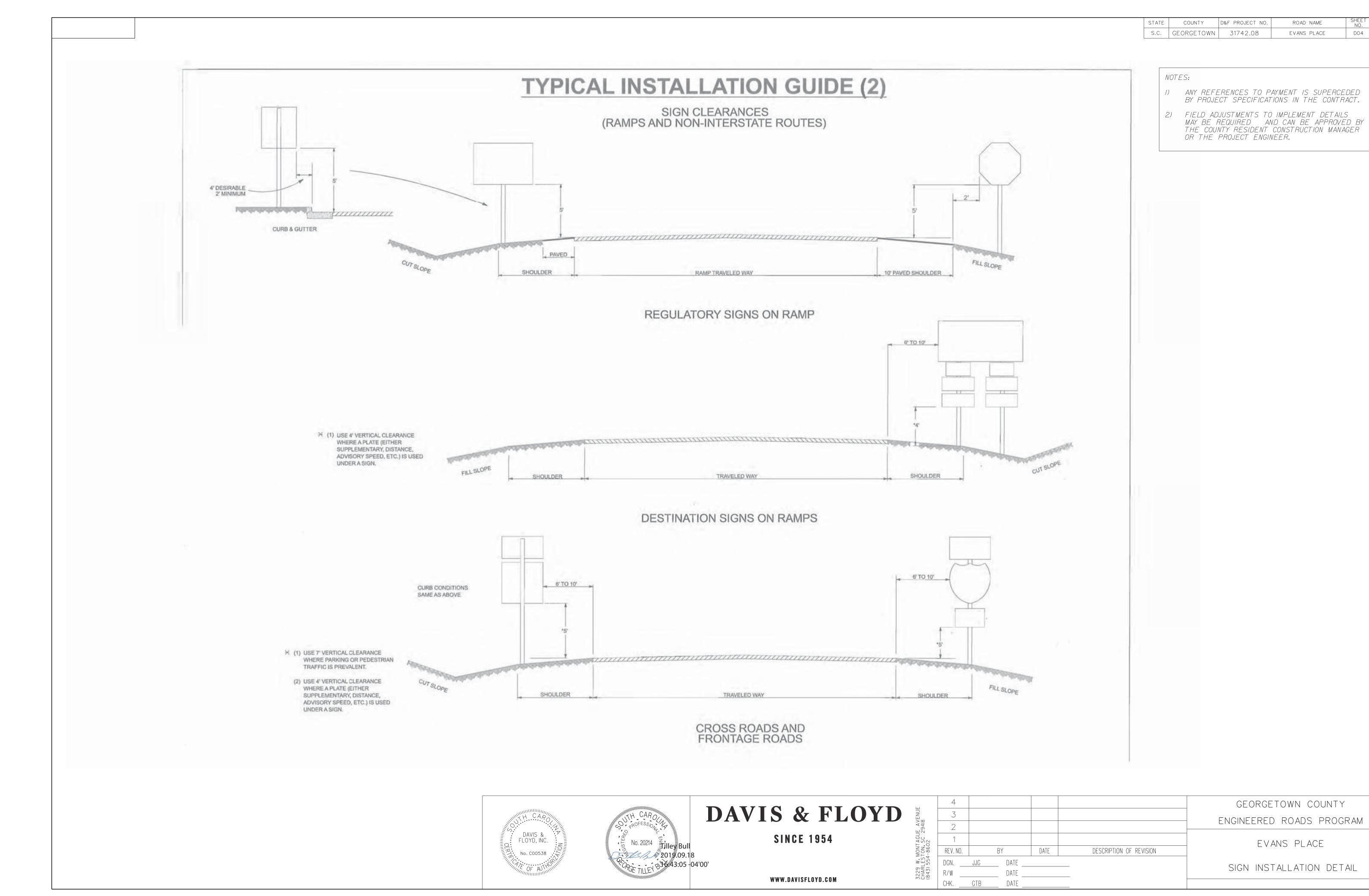
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1.1	4					
3229 W.MONTAGUE AVENUE CHARLESTON, SC 29418 (843)554-8602	3					
E AV 29418	2					
TAGU SC 32	1					
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3229 3HAF 8433	R/W		DATE			
1.700	CHK	GTB	DATE			

GEORGETOWN COUNTY ENGINEERED ROADS PROGRAM

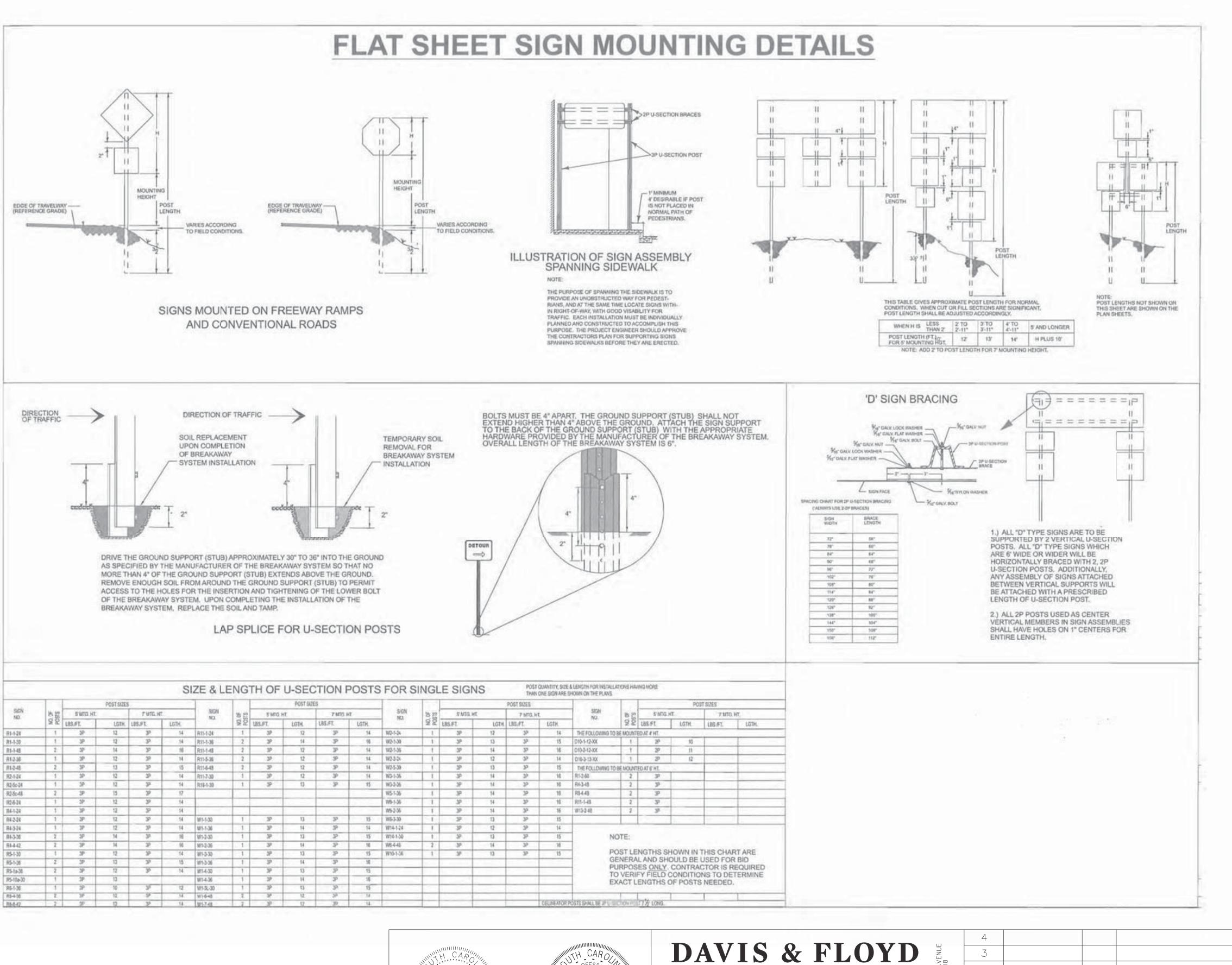
EVANS PLACE TEMPORARY SILT FENCE AND ROLLED EROSION CONTROL PRODUCT DETAILS



ROAD NAME

EVANS PLACE

D04



FLOYD, INC.

No. C00538

• 🗒 No. 20214

SINCE 1954

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GEORGETOWN COUNTY

GEORGETOWN COUNTY

ENGINEERED ROADS PROGRAM

EVANS PLACE

REV. NO. BY DATE DESCRIPTION OF REVISION

DGN. JJG DATE SIGN MOUNTING DETAIL

CHK. GTB DATE

COUNTY

s.c. | Georgetown |

NOTES:

STATE

D&F PROJECT NO.

31742.08

ANY REFERENCES TO PAYMENT IS SUPERCEDED BY PROJECT SPECIFICATIONS IN THE CONTRACT.

MAY BE REQUIRED AND CAN BE APPROVED BY THE COUNTY RESIDENT CONSTRUCTION MANAGER

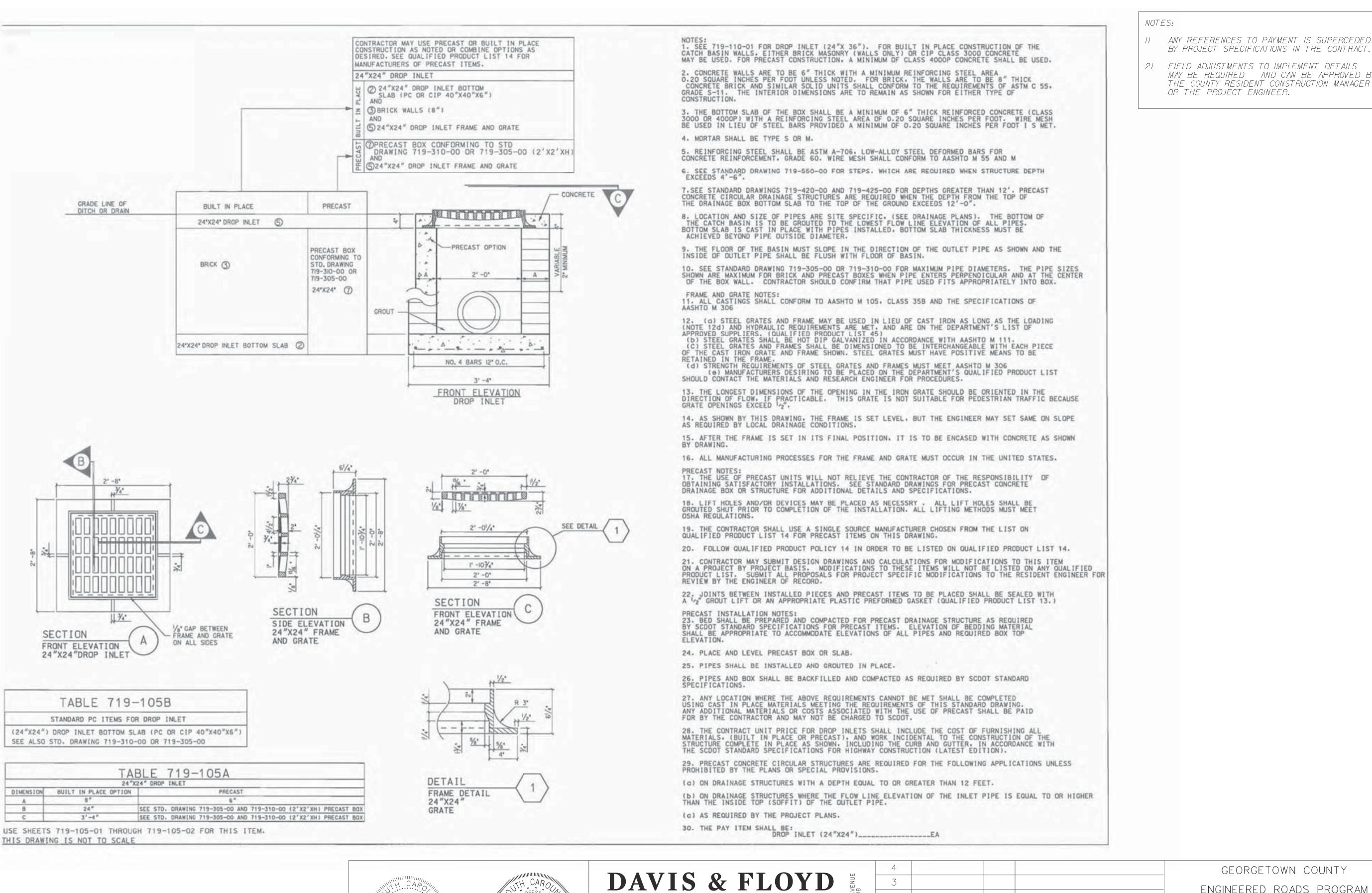
2) FIELD ADJUSTMENTS TO IMPLEMENT DETAILS

OR THE PROJECT ENGINEER.

ROAD NAME

EVANS PLACE

D05



DAVIS &

FLOYD, INC.

No. C00538

No. 20214

`16:42:31 -04'00'

GEORGETOWN COUNTY ENGINEERED ROADS PROGRAM REV. NO. DATE DESCRIPTION OF REVISION DATE DROP INLET (24" X 24") DETAIL

STATE

COUNTY

s.c. | georgetown |

D&F PROJECT NO.

31742.08

OR THE PROJECT ENGINEER.

ROAD NAME

EVANS PLACE

BY PROJECT SPECIFICATIONS IN THE CONTRACT.

MAY BE REQUIRED AND CAN BE APPROVED BY

THE COUNTY RESIDENT CONSTRUCTION MANAGER

EVANS PLACE

D06

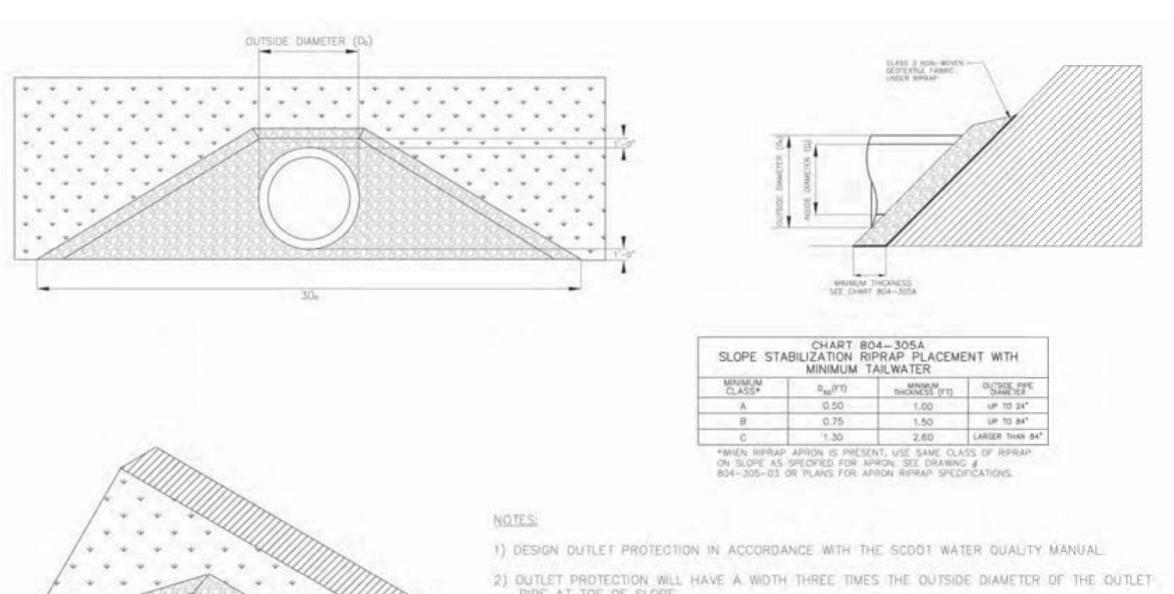
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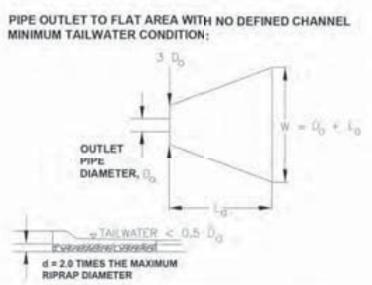
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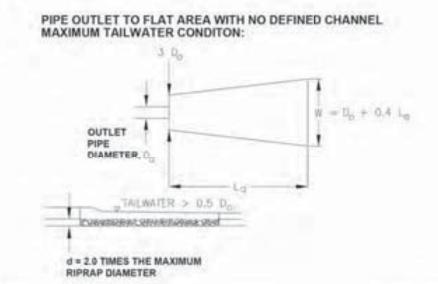
THIS DRAWING IS NOT TO SCALE

- PIPE AT TOE OF SLOPE.
- 3) ADVANCE OUTLET PROTECTION UP THE SLOPE A MINIMUM OF 1 FOOT ABOVE TOP OF PIPE.
- 4) SEE DRAWINGS # 804-305-02 AND 804-305-03 FOR RIPRAP APRON DIMENSIONS.
- 4) THE PAY ITEMS MAY INCLUDE:

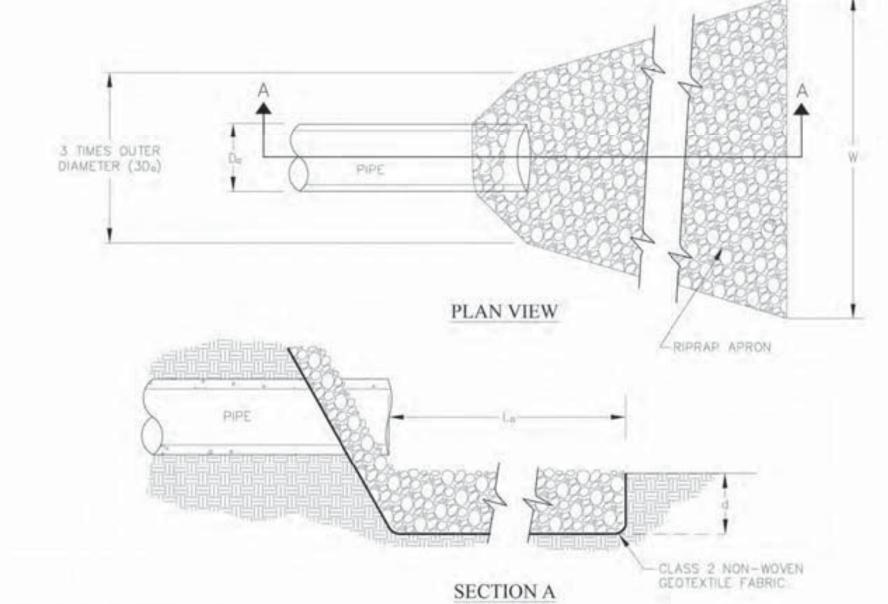
2031000 8041010 8041020	UNCLASSIFIED EXCAVATION	CY TON TON
8041030	RIPRAP (CLASS C)	-IUN
8042800	GEOTEXTILE FABRIC FOR EROSION CONTROL UNDER RIPRAP (CLASS 2)	SY
8151151	TURF REINFORCEMENT MATTING (TRM) TYPE 1	SY
8151152	TURF REINFORCEMENT MATTING (TRM) TYPE 2	SY
-8151153	TURF REINFORCEMENT MATTING (TRM) TYPE 3	EV
0/3/103	TOTAL OFFICE AND THE STATE OF T	



PIPE INSIDE DIAMETER (D.)	MAX PIPE	14 (25.20.0)	LET PROTEI DIMENSION	MIN	RIPRAP DEPTH (d)	
(FT)	SLOPE	3D ₀ (FT)	L _s (FT)	W (FT)	CLASS	(FT)
1,5	£ 1%	- 6	10	12	- A	1.5
1.5	2%	- 6	14	16	A	1.5
1.5	5%	6	19	21	В	2.7
2.0	≤ 1%	8	14	17	A	1.5
2.0	2%	8	19	22	В	2.7
2.0	5%	В	.26	29	В	2.7
2.5	≤ 1%	10	18	21	A	1.5
2.5	2%	10	25	28	8	2.7
2.5	5%	10	34	37	C	3.8
3.0	≤ 1%	12	24	28	8	2.7
3.0	2%	12	32	36	В	2.7
3.0	5%	12	42	46	С	3.6
3.5	≤1%	14	28	33	В	2.7
3.5	2%	14	37	42	C	3.6
3.5	5%	14	.48	53	C	3.6
4.0	≤ 1%	16	33	38	В	2,7
4.0	2%	16	43	48	C	3.6



PIPE INSIDE DIAMETER (D _i)	MAX		LET PROTEI DIMENSION	MIN RIPRAP	RIPRAP DEPTH (d)	
(FT)	SLOPE	3Do (FT)	L _s (FT)	W (FT)	CLASS	(FT)
1.5	≤ 1%	6	- 8	6	A	1,5
1.5	2%	6	23	- 11	A	1.5
1.5	5%	- 6	40	18	A	1.5
2.0	≤ 1%	В	14	8	Α -	1.5
2.0	2%	8	30	15	A	1.5
2.0	5%	- 8	55	25	8	2.7
2.5	≤ 1%	10	20	- 11	A	1.5
2.5	2%	10	39	19	A	1.5
2.5	5%	10	66	30	В	2.7
3.0	≤ 1%	12	27	15	A	1.5
3,0	2%	12	55	26	A	1.5
3.0	5%	12	91	40	C	3.6
3.5	≤1%	14	33	18	A	1.5
3.5	2%	14	66	31	В	2.7
3.5	5%	14	105	47	C	3.6
4.0	≤ 1%	16	42	22	A	1.5
4.0	2%	16	78	37	8	2.7



NOTES: 1) Lo = THE LENGTH OF THE RIPRAP APRON.

- 2) W = WIDTH OF OUTLET PROTECTION AT END OF RIPRAP APRON.
- 3) Do = OUTER DIAMETER OF OUTLET PIPE.
- 4) 3De = WIDTH OF OUTLET PROTECTION AT TOE OF SLOPE AT PIPE OUTLET.
- 5) SEE DRAWING # 804-305-03 OR PLANS FOR DIMENSIONS La W, AND 304-
- 6) d = DEPTH OF RIPRAP = 2.0 TIMES THE MAXIMUM RIPRAP DIAMETER.
- 7) SEE DRAWING # 804-305-01 FOR RIPRAP SLOPE STABILIZATION AROUND PIPE.

NOTES

- 1) THESE TABLES ARE ONLY APPLICABLE FOR THE PIPE SIZES AND MAXIMUM PIPE SLOPES LISTED.
- 2) LARGER PIPES OR GREATER SLOPES REQUIRE ALTERNATIVE DUTLET PROTECTION DESIGN.
- 3) WHEN PLANS SPECIFY LARGER OR DIFFERENT OUTLET PROTECTION THAN SHOWN IN TABLES, INSTALL OUTLET PROTECTION PER THE PLANS
- 4) SEE DRAWING # 804-305-02 FOR MORE INFORMATION ON OUTLET PROTECTION DIMENSIONS.

THIS DRAWING IS NOT TO SCALE

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					1HS 0800
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3229 W. MONTAGUE AVENUE CHARLESTON, SC 29418 (843) 554-8602	3				
E AV 29418	2				
TAGU SC 32	1				
MON TON,	REV. NO.		BY	DATE	DESCRIPTION OF REVISION
W. LES	DGN	JJG	DATE		
3229 3HAR 843)	R/W		DATE		
1.700	CHK	GTR	DATE		

THIS DIEARNO IS NOT TO SCALE

STATE COUNTY

NOTES:

S.C. GEORGETOWN 31742.08

D&F PROJECT NO.

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2) FIELD ADJUSTMENTS TO IMPLEMENT DETAILS

OR THE PROJECT ENGINEER.

ROAD NAME

EVANS PLACE

D07

GEORGETOWN COUNTY ENGINEERED ROADS PROGRAM

EVANS PLACE OUTLET PROTECTION WITH NO DEFINED CHANNEL DETAILS

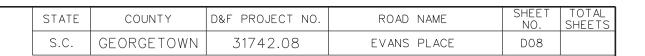


CHART 804-310A SLOPE STABILIZATION RIPRAP PLACEMENT WITH MINIMUM TAILWATER MINIMUM CLASS* D₅₀(FT) MINIMUM THICKNESS (FT) DIAMETER 0.50 1.00 UP TO 24" C 1.30 LARGER THAN 84"

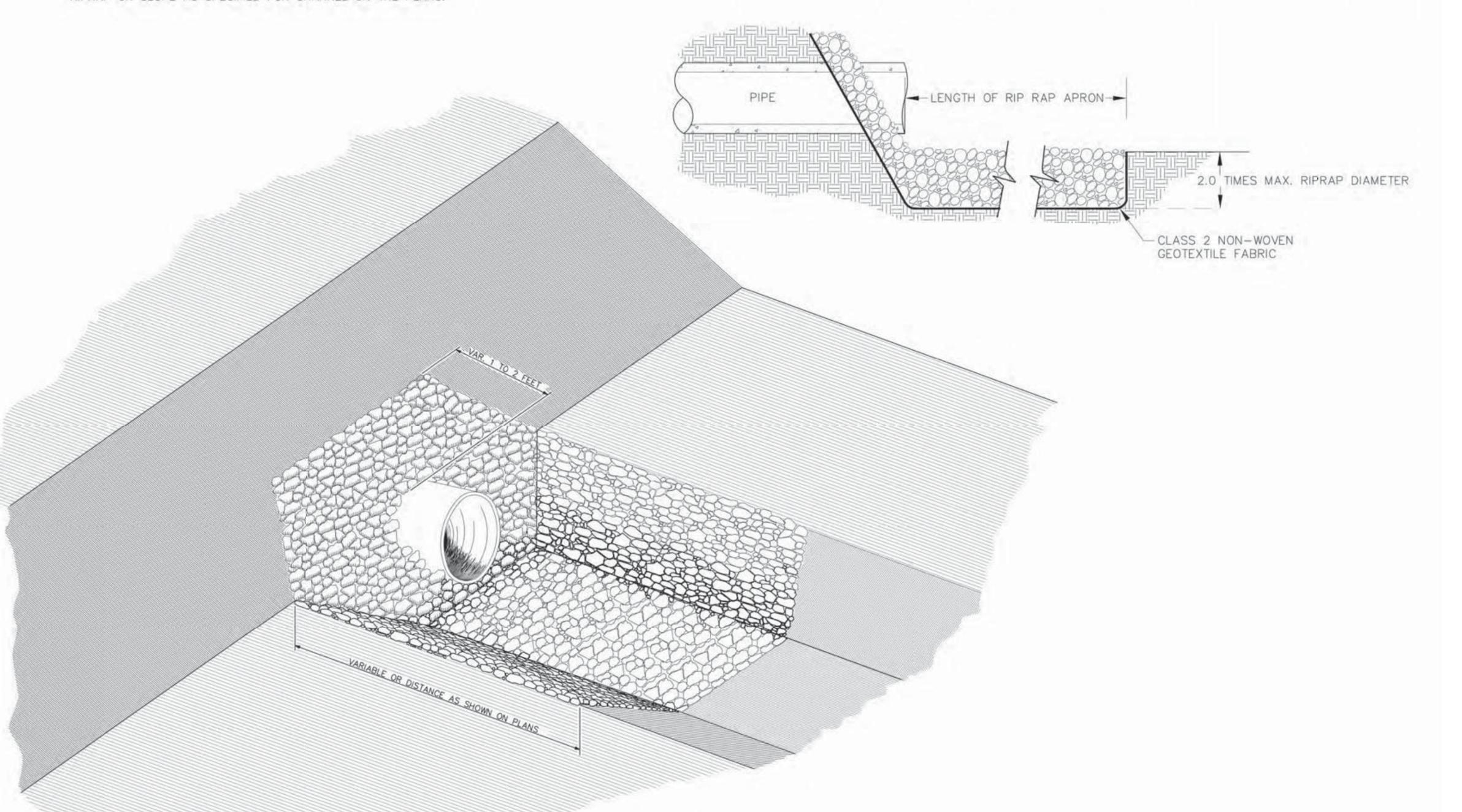
*WHEN RIPRAP CHANNEL IS PRESENT, USE SAME CLASS OF RIPRAP ON SLOPE AS SPECIFIED FOR CHANNEL ON THE PLANS.

THIS DRAWING IS NOT TO SCALE

NOTES:

- 1. CLASS 2 NON-WOVEN GEOTEXTILE FABRIC TO BE USED UNDER RIPRAP.
- 2. SEE STANDARD DRAWINGS SECTION 719-600-00 FOR ADDITIONAL PIPE END TREATMENT OPTIONS.
- 3. THE PAY ITEMS SHALL BE:

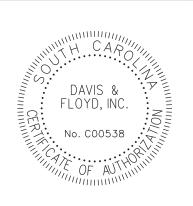
2031000	UNCLASSIFIED EXCAVATION	_CY
8041010	RIPRAP (CLASS A)	TON
8041020	RIPRAP (CLASS B)	TON
8041030	RIPRAP (CLASS C)	TON
8042800	GEOTEXTILE FABRIC FOR EROSION CONTROL UNDER RIPRAP (CLASS 2)	SY



NOTES:

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THE COUNTY RESIDENT CONSTRUCTION MANAGER
OR THE PROJECT ENGINEER.





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1.1	4				
ENUE	3				
3229 W. MONTAGUE AVENUE CHARLESTON, SC 29418 (843) 554-8602	2				
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W. I LES 554	DGN.	JJG	DATE		
3229 3448 343)	R/W		DATE		
1000	CHK	GTB	DATE		
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GEORGETOWN COUNTY Engineered roads program

EVANS PLACE OUTLET PROTECTION WITH DEFINED CHANNEL DETAIL

STATE COUNTY D&F PROJECT NO. ROAD NAME SHEET NO. SHEET SHEET:

S.C. GEORGETOWN 31742.08 EVANS PLACE D09

ANY REFERENCES TO PAYMENT IS SUPERCEDED BY PROJECT SPECIFICATIONS IN THE CONTRACT.

MAY BE REQUIRED AND CAN BE APPROVED BY THE COUNTY RESIDENT CONSTRUCTION MANAGER

2) FIELD ADJUSTMENTS TO IMPLEMENT DETAILS

OR THE PROJECT ENGINEER.

NOTES:

NOTES:

1. SEDIMENT TUBE SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 815 OF THE SCOOT STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION (LATEST EDITION), AND MUST BE LISTED ON SCOOT QUALIFIED PRODUCT LIST NUMBER 57. SEDIMENT TUBES MUST MEET THE CRITERIA OUTLINED IN THE SUPPLEMENTAL SPECIFICATIONS BEFORE BEING LISTED ON QPL, AND BE FREE FROM DEFECTS OR TRANSPORTATION DAMAGE.

2. PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE SEDIMENT TUBES ARE IN COMPLETE CONTACT WITH UNDERLYING SOIL. SEDIMENT TUBES ARE TO BE 18-24 INCHES IN DIAMETER AND ARE TO BE TRENCHED TO A DEPTH OF 20% OF TUBE DIAMETER. LAY THE SEDIMENT TUBE FLAT IN THE U-SHAPED TRENCH AND COMPACT THE UPSTREAM SEDIMENT TUBER SOIL INTERFACE. PLACE AND ANCHOR THE SEDIMENT TUBE ENDS SO THEY ARE POSITIONED UPSTREAM OF THE SEDIMENT TUBE CENTER POINT. SEDIMENT TUBES FOR DITCH CHECKS WEIGHING MORE THAN 18 POUNDS PER FOOT DO NOT REQUIRE TRENCHING.

3. SEDIMENT TUBE SHALL BE INSTALLED IMMEDIATELY AFTER GRADING AND CONSTRUCTION. SEDIMENT TUBE SHALL BE MAINTAINED DURING SUBGRADE AND BASE PREPARATION UNTIL BASE COURSE IS COMPLETE. SEDIMENT TUBES MAY BE TEMPORARILY MOVED DURING CONSTRUCTION.

4. SEDIMENT TUBES ARE TO BE INSTALLED PERPENDICULAR TO WATER FLOW AND EXTEND UP SIDE SLOPES A MINIMUM OF 1 FOOT ABOVE DESIGN FLOW DEPTH. SPACE TUBES ACCORDING TO THE FOLLOWING TABLE:

SLOPE	MAXIMUM SEDIMENT TUBE SPACING				
LESS THAN 2%	150 FEET				
2%	100 FEET				
3%	75 FEET				
4%	50 FEET				
5%	40 FEET				
6%	30 FEET				
GREATER THAN 6%	25 FEET				

5. STAKE SEDIMENT TUBES FOR DITCH CHECKS USING STAKES WITH A MINIMUM MEASURED DIMENSION OF 3/4" X 3/4" AND A MAXIMUM MEASURED DIMENSION OF 2" X 2", OR USING STEEL POSTS(1.251bs/linear foot) A MINIMUM OF 4' IN LENGTH. USE STEEL POSTS WITHOUT A SOIL PLATE AND PAINTING IS NOT REQUIRED. SPACE POSTS OR STAKES ON 2' CENTERS AND DRIVE THEM INTO THE GROUND TO A MINIMUM DEPTH OF 2'. INSTALL THE STAKES ON THE DOWNSTREAM THIRD OF THE SEDIMENT TUBE. SEDIMENT TUBES FOR DITCH CHECKS WEIGHING MORE THAN 18 POUNDS PER FOOT DO NOT REQUIRE STAKING.

6. SELECT PROPER LENGTH OF TUBE TO MINIMIZE THE NUMBER NEEDED TO SPAN THE WIDTH OF DRAINAGE AREA. ONE CONTINUOUS LENGTH IS PREFERRED COMPARED TO TWO OVERLAPPING TUBES. IF NECESSARY. SEDIMENT TUBES CAN BE LAPPED A MINIMUM OF 6 INCHES TO PREVENT PASSAGE OF FLOW AND SEDIMENT THROUGH FIELD JOINT.

7. INSTALL SEDIMENT TUBES FOR DITCH CHECKS OVER BARE SOIL, MULCHED AREAS. OR EROSION CONTROL BLANKETS. KEEP SEDIMENT TUBES FOR DITCH CHECKS IN PLACE UNTIL FULLY ESTABLISHED VEGETATION AND ROOT SYSTEMS HAVE COMPLETELY DEVELOPED AND CAN SURVIVE ON THEIR OWN.

8. INSPECT SEDIMENT TUBES AFTER INSTALLATION FOR GAPS UNDER THE SEDIMENT TUBES AND FOR GAPS BETWEEN THE JOINTS OF ADJACENT ENDS OF SEDIMENT TUBES. INSPECT SEDIMENT TUBES EVERY 7 DAYS. REPAIR ALL RILLS, GULLIES, AND UNDERCUTTING NEAR SEDIMENT TUBES. REMOVE ALL SEDIMENT DEPOSITS THAT IMPAIR THE FILTRATION CAPABILITY OF SEDIMENT TUBES WHEN THE SEDIMENT REACHES 1/3 THE HEIGHT OF THE EXPOSED SEDIMENT TUBE.

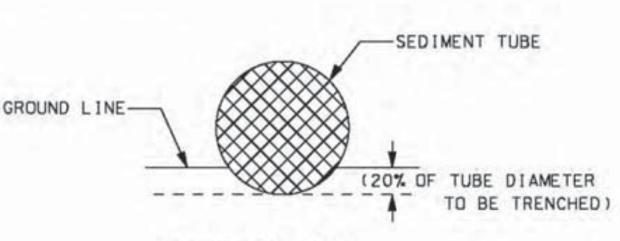
9. REMOVE AND/OR REPLACE INSTALLED SEDIMENT TUBES AS REQUIRED TO ADAPT TO CHANGING CONSTRUCTION SITE CONDITIONS. REMOVE SEDIMENT TUBES WHEN THE FUNCTIONAL LONGEVITY IS EXCEEDED AS DETERMINED BY THE ENGINEER, INSPECTOR, OR MANUFACTURER'S REPRESENTATIVE. GATHER SEDIMENT TUBES AND DISPOSE OF THEM IN REGULAR MEANS AS NON-HAZARDOUS, INERT MATERIAL.

10. PRIOR TO FINAL STABILIZATION. BACKFILL ALL TRENCHES. DEPRESSIONS. AND OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF SEDIMENT TUBES.

11. CLEAN OUT OF TUBES WILL BE PAID FOR AS CLEANING SILT BASINS.

12. PAYMENT SHALL INCLUDE ALL MATERIALS. LABOR. TOOLS. EQUIPMENT. MAINTENANCE. AND INCIDENTALS NECESSARY TO COMPLETE WORK.

13. THE PAY ITEMS SHALL BE:
8152007 SEDIMENT TUBE LF
8154010 CLEANING SILT BASINS CY



SECTION A-A

DAVIS & FLOYD, INC. No. C00538 PATRICIAN OF AUTHORITING

STAKES PLACED AT 2' (TYPICAL)

FLOW

TOP VIEW

OF DITCH

END VIEW

OF DITCH

2.0' SPACING (TYPICAL) (CONTINUOUS ALONG TUBE)

THIS DRAWING IS NOT TO SCALE

SEDIMENT TUBE

STAKES -

(18"-24" DIAMETER)



SEDIMENT TUBE IS TO BE TRENCHED

1.0' MINIMUM-

20% OF TUBE DIAMETER

DAVIS & FLOYD

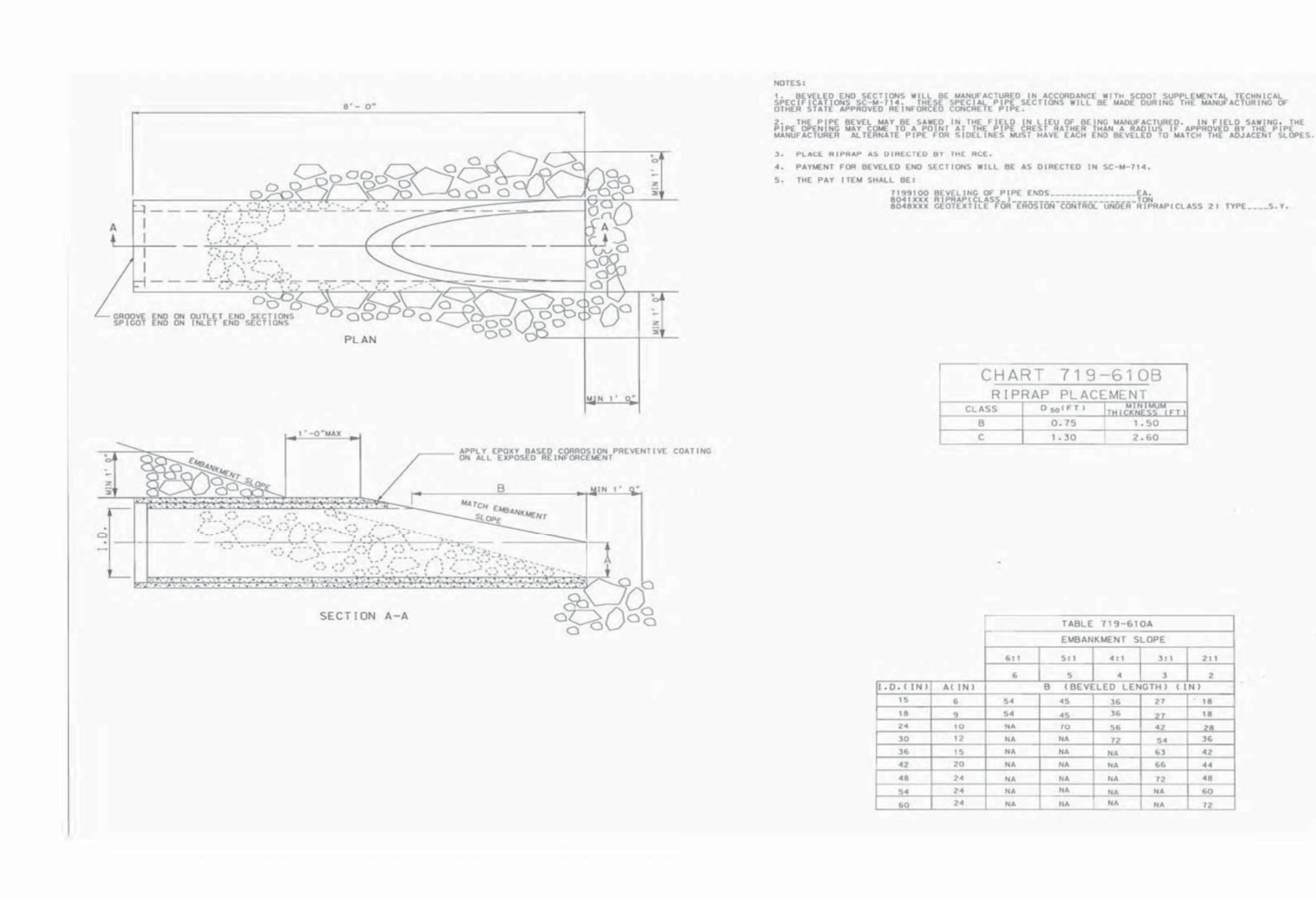
SINCE 1954

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GEORGETOWN COUNTY
ENGINEERED ROADS PROGRAM

EVANS PLACE SEDIMENT TUBE DITCH APPLICATION DETAIL



STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31742.08	EVANS PLACE	D10	

1) ANY REFERENCES TO PAYMENT IS SUPERCEDED BY PROJECT SPECIFICATIONS IN THE CONTRACT.

2) FIELD ADJUSTMENTS TO IMPLEMENT DETAILS MAY BE REQUIRED AND CAN BE APPROVED BY THE COUNTY RESIDENT CONSTRUCTION MANAGER OR THE PROJECT ENGINEER.

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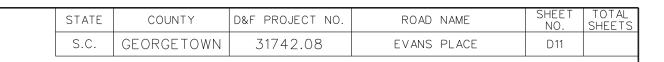
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GEORGETOWN COUNTY Engineered roads program

EVANS PLACE

END TREATMENT (RCP BEVELED END)



- I) ANY REFERENCES TO PAYMENT IS SUPERCEDED BY PROJECT SPECIFICATIONS IN THE CONTRACT.
- MAY BE REQUIRED AND CAN BE APPROVED BY THE COUNTY RESIDENT CONSTRUCTION MANAGER OR THE PROJECT ENGINEER.

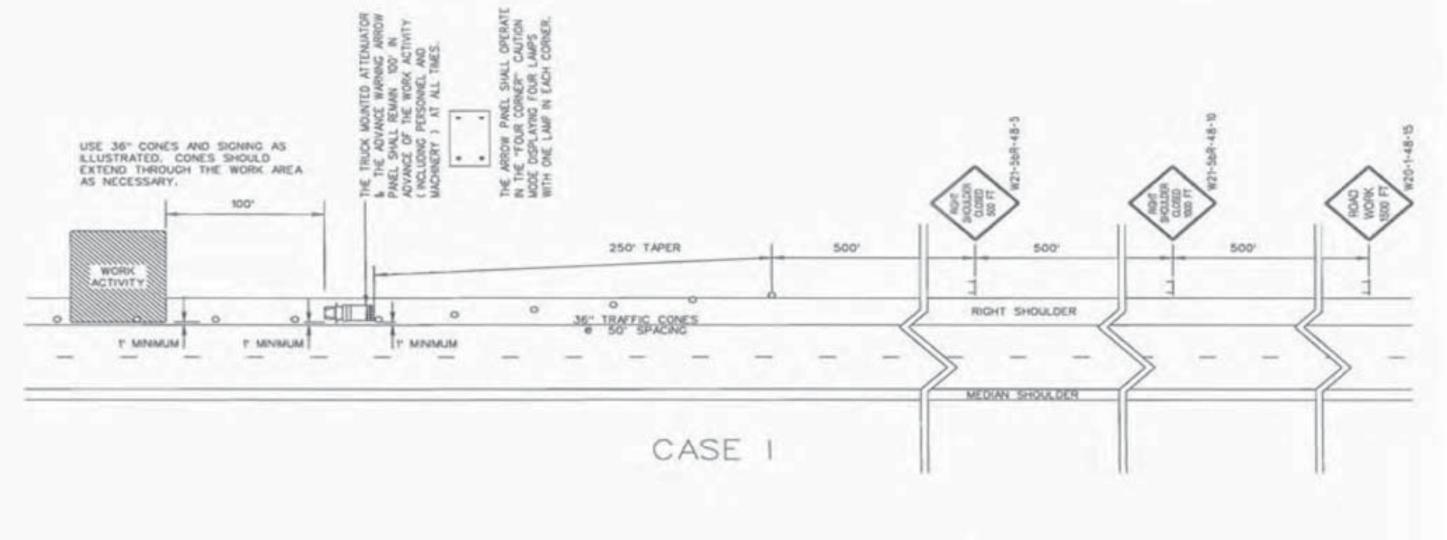
2) FIELD ADJUSTMENTS TO IMPLEMENT DETAILS

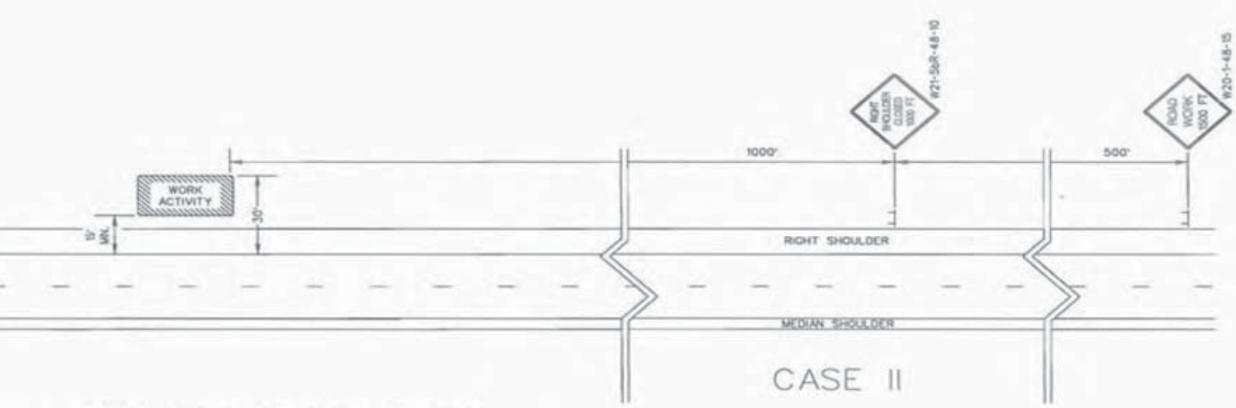
GENERAL NOTES

- 1. ALL SIGN LOCATIONS ARE TO BE MEASURED FROM THE WORK AREA. WORK LIMITS FOR THE PROJECT WILL BE DETERMINED BY THE ENGINEER AND AS INDICATED IN THE CONTRACT.
- 2. INSTALL ADVANCE WARNING SIGNS MOUNTED ON PORTABLE SIGN SUPPORTS NO LESS THAN 4 FEET FROM THE NEAR EDGE OF THE SIGN TO THE NEAR EDGE OF AN ADJACENT TRAVEL LANE ON ROADWAYS WITH EARTH SHOULDERS AND NO LESS THAN 6 FEET FROM THE NEAR EDGE OF THE SIGN TO THE NEAR EDGE OF AN ADJACENT TRAVEL LANE ON ROADWAYS WITH PAVED SHOULDERS. WHEN CURB & GUTTER IS PRESENT, INSTALL THE SIGN NO LESS THAN 2 FEET FROM THE NEAR EDGE OF THE SIGN TO THE FACE OF THE CURB.
- 3. SPACINGS INDICATED ARE FOR NORMAL CONDITIONS! ADJUSTMENTS MAY BE REQUIRED DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENTS OR OTHER SIGHT DISTANCE RESTRICTIONS.
- 4. ALL SIGNS MOUNTED ON PORTABLE SIGN SUPPORTS SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 5 FEET FROM THE GROUND TO THE BOTTOM OF THE SIGN. ALL SIGNS MOUNTED ON GROUND MOUNTED U-CHANNEL POSTS OR SQUARE STEEL TUBE POSTS SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 7 FEET FROM THE GRADE ELEVATION OF THE NEAR EDGE OF THE ADJACENT TRAVEL LANE TO THE BOTTOM OF THE SIGN UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. MOUNT ALL SIGNS STRAIGHT AND LEVEL AND WITH THE FACE OF THE SIGNS PERPENDICULAR TO THE SURFACE OF THE ROADWAY.
- 5. REFLECTORIZE ORANGE ADVANCE WARNING SIGNS AND ANY ORANGE AREAS OF A MULTI-COLORED ADVANCE WARNING SIGN WITH A FLUORESCENT ORANGE COLORED PRISMATIC RETROREFLECTIVE SHEETING. REFLECTORIZE WHITE REGULATORY SIGNS AND ANY WHITE AREAS OF A MULTI-COLORED ADVANCE WARNING SIGN WITH A WHITE COLORED PRISMATIC RETROREFLECTIVE SHEETING.
- 6. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH ALL NCHRP REPORT 350 REQUIREMENTS AND SHALL REQUIRE APPROVAL BY THE DEPARTMENT. ONLY THOSE TRAFFIC CONTROL DEVICES INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES" ARE CONSIDERED ACCEPTABLE FOR USE. THIS LIST MAY BE ACCESSED ON THE DEPARTMENT'S WEB SITE AT: www.scdot.org.
- 7. THE CONTRACTOR SHALL PROVIDE AND UTILIZE ANY SPECIAL SIGN MOUNTING ASSEMBLIES AND HARDWARE THAT MAY BE NECESSARY FOR INSTALLING AND MOUNTING SIGNS IN AREAS OF CONCRETE MEDIAN BARRIER, BRIDGE PARAPET WALLS OR DOUBLEFACED GUARDRAIL.
- 8. THE PRIMARY TRAFFIC CONTROL DEVICES UTILIZED FOR DAYTIME SHOULDER CLOSURES ARE 36" CONES. THE PRIMARY TRAFFIC CONTROL DEVICES UTILIZED FOR NIGHTTIME SHOULDER CLOSURES ARE PORTABLE PLASTIC DRUMS. DURING DAYTIME SHOULDER CLOSURES, 42" OVERSIZED CONES MAY BE SUBSTITUTED FOR 36" CONES. DURING NIGHTTIME SHOULDER CLOSURES, 42" OVERSIZED CONES ARE PROHIBITED FOR USE. IF THIS TRAFFIC CONTROL SETUP EXTENDS INTO THE HOURS OF DARKNESS, REPLACE ALL CONES, 36" OR 42" OVERSIZED, WITH PORTABLE PLASTIC DRUMS.
- 9. THE 36" CONES UTILIZED DURING DAYLIGHT HOURS ARE NOT REQUIRED TO BE REFLECTORIZED. REFLECTORIZE ALL 42" OVERSIZED CONES UTILIZED DURING DAYTIME SHOULDER CLOSURES WITH TYPE IN FLEXIBLE PRISMATIC RETROREFLECTIVE SHEETING UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. REFLECTORIZE ALL PORTABLE PLASTIC DRUMS WITH TYPE IN FLEXIBLE PRISMATIC RETROREFLECTIVE SHEETING UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
- II. THE DEPARTMENT PROHBITS CONDUCTING WORK ON PRIMARY AND SECONDARY ROUTES WITHIN 1 OF THE NEAR EDGE OF THE ADJACENT TRAVEL LANE UNDER A SHOULDER CLOSURE. ALL WORK THAT MAY REQUIRE THE PRESENCE OF EQUIPMENT, PERSONNEL, MATERIALS OR WORK VEHICLES WITHIN 1 OF THE NEAR EDGE OF THE ADJACENT TRAVEL LANE SHALL BE CONDUCTED UNDER A LANE CLOSURE.
- CASE II WHENEVER ANY PORTION OF THE SHOULDER AREA WITHIN 15' BUT NOT CLOSER THAN T OF THE NEAR EDGE OF THE ADJACENT TRAVEL LANE MUST BE OCCUPED BY EQUIPMENT, PERSONNEL, MATERIALS OR WORK VEHICLES TO CONDUCT THE WORK, INSTALL AND MAINTAIN THE SIGNING AND TRAFFIC CONTROL DEVICES AS
- CASE # WHENEVER THE WORK IS CONDUCTED BEYOND 15' BUT WITHIN 30' OF THE NEAR EDGE OF THE ADJACENT TRAVEL LANE, INCLUDING THE PRESENCE OF EQUIPMENT, PERSONNEL, MATERIALS OR WORK VEHICLES, INSTALL AND MAINTAIN THE SIGNING AND TRAFFIC CONTROL AS ILLUSTRATED.
- 12. CONDUCT THE WORK IN SUCH A MANNER THAT WILL NOT REQUIRE ENCROACHMENT OF TRAFFIC CONTROL DEVICES, EQUIPMENT, PERSONNEL, MATERIALS OR ANY WORK RELATED VEHICLES WITHIN I' OF THE NEAR EDGE OF THE ADJACENT TRAVEL LANE.
- 13. PLACE THE TRUCK MOUNTED ATTENUATOR AT A LOCATION 100' IN ADVANCE OF THE WORK ACTIVITY AND NO CLOSER THAN I' FROM THE NEAR EDGE OF THE ADJACENT TRAVEL LANE.

15. IF WORK IS BEING CONDUCTED SMULTANEOUSLY AT TWO DIFFERENT LOCATIONS AT THE

- 14. FOR A CASE I SCENARIO IN THE RIGHT SHOULDER AREA, ADJUST THE TAPER AS NECESSARY TO FIT THE WIDTH OF THE SHOULDER WHILE MAINTAINING THE REQUIRED 250' TAPER LENGTH.
- SAME TIME UNDER CASE I SHOULDER CLOSURES, SEPARATE THE TWO LOCATIONS BY NO LESS THAN 1 MILE FROM THE END OF THE FIRST CASE I CLOSURE THAT A MOTORIST WILL ENCOUNTER TO THE BEGINNING OF THE TAPER OF THE SECOND CASE I CLOSURE. A MINIMUM SEPARATION DISTANCE OF ONE-HALF MILE IS RECOMMENDED BETWEEN SHOULDER CLOSURES WHEN ONE OR BOTH SHOULDER CLOSURES IS A CASE II CLOSURE.
- 16. THE DEPARTMENT RESERVES THE RIGHT TO RESTRICT WORK OPERATIONS AND/OR WITHHOLD THE MONTHLY ESTIMATE F THE TRAFFIC CONTROL IS NOT PROPERLY INSTALLED AND MAINTAINED AS DIRECTED BY THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, THE STANDARD DRAWINGS, THE PLANS AND/OR THE ENGINEER.
- 17. THIS TYPICAL TRAFFIC CONTROL SETUP APPLIES TO THE INSTALLATION OF SHOULDER CLOSURES IN THE RIGHT SHOULDER AREAS OF PRIMARY AND SECONDARY ROADWAYS.





PORTABLE TRUCK MOUNTED ATTENUATOR

- IL UTILIZE A TRUCK MOUNTED ATTENUATOR ATTACHED TO THE REAR OF A TRUCK WITH A MINIMUM CROSS VENCULAR WEIGHT (GVM) OF 15,000 POUNDS (ACTUAL WEIGHT). IF THE ADDITION OF SUPPLEMENTAL WEIGHT TO THE VEHICLE AS BALLAST IS NECESSARY, CONTAIN THE MATERIAL WITHIN A STRUCTURE CONSTRUCTED OF STEEL. CONSTRUCT THIS STEEL STRUCTURE TO HAVE A MINIMUM OF FOUR SIDES AND A BOTTOM. A TOP IS OPTIONAL. BOLT THIS STRUCTURE TO THE FRAME OF THE TRUCK. UTILIZE A SUFFICIENT NUMBER OF FASTENERS FOR ATTACHMENT OF THE STEEL STRUCTURE TO THE FRAME OF THE TRUCK TO ENSURE THE STRUCTURE WILL NOT SEPARATE FROM THE FRAME OF THE TRUCK DURING AN IMPACT UPON THE ATTACHED TRUCK MOUNTED ATTENUATOR. UTILIZE ETHER DRY LOOSE SAND OR STEEL RENFORCED CONCRETE FOR BALLAST MATERIAL, WITHIN THE STEEL STRUCTURE TO ACHEVE THE NECESSARY WEIGHT. THE BALLAST MATERIAL SHALL REMAIN CONTAINED WITHIN THE CONFINES OF THE STEEL STRUCTURE AND SHALL NOT PROTRUCE FROM THE STEEL STRUCTURE IN ANY MANNER.
- 2. LOCATE THE TRUCK MOUNTED ATTENUATOR 100 FEET IN ADVANCE OF THE WORK AREA UNLESS OTHERWISE SPECIFIED.
- 3. PROVIDE, INSTALL AND MANTAN THE TRUCK MOUNTED ATTENUATOR AS SPECIFIED BY THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

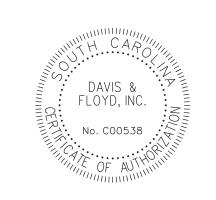
ADVANCE WARNING ARROW PANEL

ALL ADVANCE WARNING ARROW PAVELS SHALL BE 48" x 96" WITH A MINIMUM LEGIBILITY DISTANCE OF I MILE. PLACEMENT OF AN ADVANCE WARNING ARROW PAVEL MAY REQUIRE ADJUSTMENTS DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENT OR OTHER SIGHT DISTANCE RESTRICTIONS. THE PAVEL FACE SHALL BE NONREFLECTIVE BLACK. ALL ADVANCE WARNING ARROW PAVELS SHALL COMPLY WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.

WHEN AN ADVANCE WARNING ARROW PANEL IS REQUIRED TO OPERATE IN THE CAUTION MODE, THE ADVANCE WARNING ARROW PANEL SHALL DISPLAY THE "FOUR CORNERS" CAUTION MODE, WITH ONE LAMP IN EACH CORNER, DISPLAY OF ANY OTHER TYPE OF CAUTION MODE OTHER THAN THE "FOUR CORNERS" CAUTION MODE SUCH AS THE "FLASHING BAR" OR THE "ALTERNATING DIAMOND" CAUTION MODES ARE UNACCEPTABLE AND PROHIBITED.

LEGEND

O 36" TRAFFIC CONES





DAVIS & FLOYD

SINCE 1954

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GEORGETOWN COUNTY Engineered roads program

EVANS PLACE

SHOULDER CLOSURE

ANY REFERENCES TO PAYMENT IS SUPERCEDED BY PROJECT SPECIFICATIONS IN THE CONTRACT.

2) FIELD ADJUSTMENTS TO IMPLEMENT DETAILS MAY BE REQUIRED AND CAN BE APPROVED BY THE COUNTY RESIDENT CONSTRUCTION MANAGER OR THE PROJECT ENGINEER.

FLAGGING OPERATIONS GENERAL NOTES

(ALL NOTES, SPECIFICATIONS AND REQUIREMENTS ON THIS STANDARD DRAWING APPLY TO ALL SUBSEQUENT STANDARD DRAWINGS REGARDING FLAGGING OPERATIONS UNLESS OTHERWISE NOTED)

FLAGGING OPERATIONS

1. KEY FEATURES RELEVANT TO FLAGGNO OPERATIONS:

APPROACH TAPER - THIS IS A ONE-LANE IWO-WAY TAPER PLACED IN THE TRAVEL LANE WHERE THE WORK ACTIVITY TAXES PLACE. THIS TAPER PRECEDES THE BUFFER SPACE AND THE WORK ACTIVITY AREA. THE LENGTH OF THIS TAPER MAY VARY FROM SO FEET TO 100 FEET. INSTALL AND MANTAN NO LESS THAN FIVE (5) TRAFFIC CONTROL DEVICES EQUALLY SPACED AT 10' TO 25' INTERVALS AS NECESSARY TO CORRESPOND WITH THE LENGTH OF THE TAPER.

DOWNSTREAM TAPER - THIS TAPER, PLACED IN THE TRAVEL LANE WHERE THE WORK ACTIVITY TAKES PLACE, FOLLOWS THE WORK ACTIVITY AREA AND SERVES AS THE TERMINATION AREA FOR THE CLOSURE OF THE TRAVEL LANE. THE LENGTH OF THIS TAPER MAY YARY FROM SO FEET TO 100 FEET. INSTALL AND MAINTAIN NO LESS THAN FIVE 15) TRAFFIC CONTROL DEVICES IN THIS TAPER.

ELAGGER STATION - THIS IS THE SPECIFIC LOCATION OF THE FLAGGER.

CLOSED LANE FLAGGER - THIS FLAGGER IS STATIONED ADJACENT TO THE FIRST TRAFFIC CONTROL DEVICE IN THE APPROACH TAPER WHO CONTROLS THE TRAFFIC THAT REQUIRES RELOCATION FROM THE TRAVEL LANE BEING CLOSED TO TRAFFIC.

OPEN LANE FLAGGER - THIS FLAGGER IS STATIONED 100 FEET BEYOND THE LAST TRAFFIC CONTROL DEVICE IN THE DOWNSTREAM TAPER WHO

CONTROLS THE TRAFFIC OPERATING IN THE TRAVEL LANE REMAINING OPEN TO TRAFFIC BUFFER SPACE - THS AREA IS LOCATED BETWEEN THE DOWNSTREAM END OF THE APPROACH TAPER AND THE MEAREST LIMITS OF THE WORK ACTIVITY AREA AND MAY PROVIDE SOME RECOVERY SPACE FOR AN ERRANT VEHICLE. THE PRESENCE OF PERSONNEL, TOOLS, MATERIALS, EQUIPMENT, WORK VEHICLES, ETC. WITHIN THE LIMITS OF THE BUFFER SPACE IS PROHBITED. HOWEVER, WHEN THE MINMUM DISTANCE REQUIREMENTS FOR THE BUFFER SPACE ARE UNAVAILABLE, A TRUCK MOUNTED ATTENUATOR MAY TEMPORARLY ENCROACH UPON THE

SUFFER SPACE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE SECTION BELOW ENTITLED, "GUFFER SPACE", WHEN

APPROVED BY THE ENGINEER. WORK ACTIVITY AREA - PERSONNEL, MATERIALS, EQUIPMENT, WORK VEHICLES, ETC. ARE PRESENT WITHIN THIS AREA TO CONDUCT THE WORK. LIMIS OF the WORK ACTIVITY AREA - THIS IS THE BOUNDARY OF THE WORK ACTIVITY AREA FIRST ENCOUNTERED, FROM EITHER DIRECTION, BY MOTORISTS PASSING BY THE WORK ACTIVITY AREA IN THE ADJACENT TRAVEL LANE OPEN TO TRAFFIC AND

APPROACH LANE . TRAFFIC APPROACHES AN INTERSECTION OR A SPECIFIC LOCATION IN THIS TRAVEL LANE.

CONTROLLED BY THE FLAGGERS.

DEPARTURE LANE - TRAFFIC DEPARTS FROM AN INTERSECTION OR A SPECIFIC LOCATION IN THIS TRAVEL LANE. MAMENE APPROACH - THIS IS AN APPROACH TO THE WORK ACTIVITY AREA ON THE ROADWAY WHERE THE WORK ACTIVITY AREA IS LOCATED.

SDE ROADS - THESE ROADS INTERSECT THE ROADWAY ON WHICH THE WORK ACTIVITY AREA IS LOCATED.

LIMIS OF THE LIMITS OF OR THE PHYSICAL AREA WITHIN AN INTERSECTION IS DEFINED BY THE LOCATION OF STOP BARS WHEN PRESENT, WHEN STOP BARS ARE ASSENT, THE LIMITS OF OR THE PHYSICAL AREA WITHIN AN INTERSECTION IS DEFINED BY THE LOCATION PONTS WHERE THE CORNER RADII BETWEEN ADJACENT ROADWAY APPROACHES TIE TO THE EDGE OF

- PAYEMENT OR THE EDGE OF TRAVEL LANE ADJACENT TO THE EDGE OF PAYEMENT OF EACH ROADWAY. 2. INSTALL, CONDUCT AND MAINTAIN FLAGONG OPERATIONS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, THE STANDARD DRAWINGS, THE NUTCO AND THE "SOUTH CAROLINA FLAGGER'S HANDBOOK" WILESS OTHERWISE DIRECTED BY THE DEPARTMENT. INSTALL ALL SIGNS RELATIVE TO A FLAGGING OPERATION PRIOR TO INITIATION OF THE OPERATION AND REMOVE OR COVER ALL SIGNS IMMEDIATELY UPON TERMINATION OF THE OPERATION. EQUIP EACH FLAGGER WITH A 24" x 24" STOP/SLOW PADDLE MOUNTED ON A RIGID HANDLE WITH A MINIMUM LENGTH OF 7 FEET. THE DEPARTMENT PROHIBITS THE USE OF FLAGS EXCEPT DURNO EMERGENCY SITUATIONS.
- 3. LANE CLOSURES FOR FLAGGING OPERATIONS ARE RESTRICTED TO A MAXIMUM DISTANCE OF 2 MLES UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE WORK LIMITS WILL COMPLY WITH THE CONTRACT AND SHALL REQUIRE THE ENGINEER'S APPROVAL PRIOR TO BEGINNING THE WORK.
- 4. INSTALL AND MAINTAIN THE PROPER ARRAY OF ADVANCE WARNING SIGNS FOR EACH "MAINLINE APPROACH" WHEN A FLAGGING OPERATION IS IN PLACE AND ACTIVE. WHEN NECESSARY TO RELOCATE THE "FLAGGER STATION" WHILE ACTIVELY MANTANING THE FLAGGING OPERATION, BISTALL AN ADDITIONAL ARRAY OF ADVANCE WARNING SIGNS AT THE LOCATION RELATIVE TO THE NEW "FLAGGER STATION" AND REMOVE THE ORIGINAL ARRAY OF ADVANCE WARNING SIGNS INVESTIGATELY UPON COMPLETION OF THE RELOCATION OF THE FLAGGER TO THE NEW "FLAGGER STATION".
- 5. INSTALL ALL ADVANCE WARNING SIGHS IMMEDIATELY PRIOR TO INITIATING A FLAGGING OPERATION AND REMOVE OR COVER ALL SIGHS IMMEDIATELY UPON TERMINATION OF THE OPERATION.
- 6. MAINTAIN TWO-WAY RADIO COMMUNICATIONS BETWEEN ALL FLAGGERS.

NIGHTTIME FLAGGING OPERATIONS

- I. EACH FLAGGER SHALL WEAR SAFETY APPAREL IN COMPLIANCE WITH THE REQUIREMENTS OF ANSI/ ISEA 107 STANDARD PERFORMANCE FOR CLASS 3 RISK EXPOSURE, LATEST REVISION, WHEN CONDUCTING NIGHTTIME FLAGGING OPERATIONS
- 2. ILLUMNATE EACH "FLAGGER STATION" WITH ANY COMBINATION OF PORTABLE LIGHTS, STANDARD ELECTRIC LIGHTS, EXISTING STREET LIGHTS, ETC. THAT WALL PROVIDE A MINIMUM ALUMINATION LEVEL OF 108 Lx OR 10 fc WHEN CONDUCTING REGHTTIME FLAGGING OPERATIONS.
- 3. SUPPLEMENT EACH ARRAY OF ADVANCE WARNING SIGNS ON EACH "WARRING APPROACH" WITH A TRALER MOUNTED CHANGEABLE MESSAGE SIGN. THESE CHANGEABLE MESSAGE SIGNS ARE NOT REQUIRED ON THE "SIDE BOADS" INTERSECTING THE ROADWAY WHERE THE "WORK ACTIVITY AREA" IS LOCATED.
 ALSO, THESE CHANGEABLE MESSAGE SIGNS ARE NOT REQUIRED DURING DAYTINE FLAGGING OPERATIONS UNLESS OTHERWISE DIRECTED BY THE STANDARD DRAWINGS. INSTALL THE CHANGEABLE MESSAGE SIGNS IN ADVANCE OF THE ADVANCE WARNING SIGN ARRAYS. THE MESSAGES SHOULD BE "PREPARE TO STOP", "FLAGGER AHEAD", A TRUCK MOUNTED CHANGEABLE MESSAGE SION IS NOT AN ACCEPTABLE ALTERNATIVE TO A TRALER MOUNTED CHANGEABLE MESSAGE SIGN DURING NIGHTTIME FLAGGING OPERATIONS.
- 4. UTILIZE PORTABLE PLASTIC DRUMS OR 42" OVERSIZED TRAFFIC CONES IN PLACE OF 36" STANDARD TRAFFIC CONES DURING INGHTTIME FLAGGING

BUFFER SPACE -

I. THE MINMUM DISTANCE REQUIREMENTS FOR THE "BUFFER SPACE" ARE BASED UPON THE LEGAL POSTED REGULATORY SPEED LIMIT OF THE ROADWAY PRIOR TO BEGINNING THE WORK,

SPEED LIMIT DISTANCES LOW SPEED 200 FEET € 35 MPH INTERVEDIATE SPEED 300 FEET 40 - 50 MPH HIGH SPEED 400 FEET

55 MPH

- 2. THE PRESENCE OF PERSONNEL, TOOLS, MATERIALS, EQUIPMENT, WORK VEHICLES, ETC. WITHIN THE LIMITS OF THE "BUFFER SPACE" IS PROMBITED. TRUCK MOUNTED ATTENUATOR IS THE ONLY WORK VEHICLE THAT MAY TEMPORABLY ENCROACH UPON THE "BUFFER SPACE" IN ACCORDANCE WITH THE CONDITIONS SPECIFIED IN THE FOLLOWING NOTE WHEN APPROVED BY THE ENGINEER. SEE NOTE NO. 3.
- 3. WHEN THE MINMUM DISTANCE REQUIREMENTS FOR THE "BUFFER SPACE" ARE UNAVAILABLE DUE TO FIELD CONDITIONS, IT MAY BE NECESSARY FOR A TRUCK MOUNTED ATTENUATOR TO TEMPORARLY ENCROACH UPON THE "BUFFER SPACE" WHEN APPROVED BY THE ENGINEER. A TRUCK MOUNTED ATTENUATOR IS THE ONLY VEHICLE PERMITTED TO TEMPORARLY ENCROACH UPON THE "BUFFER SPACE" AND THIS ENCROACHMENT IS ONLY PERMITTED WHEN ALL REASONABLE OPTIONS TO AVOID DOING SO HAVE BEEN EXHAUSTED. WHEN ENGROACHMENT UPON THE "BUFFER SPACE" IS APPROVED BY THE ENGNEER, MINMIZE THE TIME DURATION OF THE ENGROACHMENT BY REMOVAL OF THE TRUCK MOUNTED ATTENUATOR FROM THE "BUFFER SPACE" AT THE FIRST OPPORTUNITY THE MINIMUM DISTANCE REQUIREMENTS FOR THE "BUFFER SPACE" BECOME AVAILABLE.

SIGNS AND TRAFFIC CONTROL DEVICES -

- I. WEASURE THE ADVANCE WARRING SIGN LOCATIONS FOR EACH APPROACH FROM THE "FLAGGER STATION" LOCATED ON THAT APPROACH. 2. WSTALL THE ADVANCE WARNING SIGNS AS SPACING INTERVALS BASED UPON THE POSTED REGULATORY SPEED LIMIT OF THE ROADWAY PRIOR TO BECKNING ANY WORK, THE ADVANCE WARNING SIGN SPACING INTERVALS INDICATED ARE FOR NORMAL CONDITIONS. ADJUSTMENTS TO THESE DISTANCES MAY BE NECESSARY DUE TO EXISTING SIGNS, INTERSECTING ROADWAYS, HORIZONTAL AND/OR VERTICAL ALIGNMENTS OR OTHER SIGHT DISTANCE
- 3. INSTALL ADVANCE WARNING SIGNS MOUNTED ON PORTABLE SIGN SUPPORTS NO LESS THAN 4 FEET FROM THE NEAR EDGE OF THE SIGN TO THE NEAR EDGE OF AN ADJACENT TRAVEL LANE ON ROADWAYS WITH EARTH SHOULDERS AND NO LESS THAN 6 FEET FROM THE NEAR EDGE OF THE SIGN TO THE NEAR EDGE OF AN ADJACENT TRAVEL LANE ON ROADWAYS WITH PAVED SHOULDERS. WHEN CURB & CUTTER IS PRESENT, INSTALL THE SIGN NO LESS THAN 2 FEET FROM THE NEAR EDGE OF THE SIGN TO THE FACE OF THE CURB.
- 4. ALL SIGNS MOUNTED ON PORTABLE SIGN SUPPORTS SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 5 FEET FROM THE GROUND TO THE BOTTOM OF THE SICN, ALL SIGNS MOUNTED ON GROUND MOUNTED U-CHANNEL OR SQUARE STEEL TUBE POSTS SHALL HAVE A MINNUM MOUNTING HEIGHT OF 7 FEET FROM THE GRADE ELEVATION OF THE NEAR EDGE OF THE ADJACENT TRAVEL LANE TO THE BOTTOM OF THE SIGN UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT, MOUNT ALL SIGNS STRAIGHT AND LEVEL AND WITH THE FACE OF THE SIGNS PERPENDICULAR TO THE SURFACE OF THE ROADWAY.
- 5. REFLECTORIZE DRANGE ADVANCE WARNING SIGNS AND ANY DRANGE AREAS OF A MULTI-COLORED ADVANCE WARNING SIGN WITH A FLUDRESCENT DRANGE COLORED PRISMATIC RETROREFLECTIVE SHEETING. REFLECTORIZE WHITE REGULATORY SIGNS AND ANY WHITE AREAS OF A MULTI-COLORED ADVANCE WARNING SIGN WITH A WHITE COLORED PRISMATIC RETROREFLECTIVE SHEETING.
- HARDWARE MASHI AND SHALL REQUIRE APPROVAL BY THE DEPARTMENT, ONLY THOSE TRAFFIC CONTROL DEVICES INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES" ARE CONSIDERED ACCEPTABLE FOR USE. THIS LIST MAY BE ACCESSED ON THE DEPARTMENT'S WEB SITE AT *** sedot.org ... 7. REFLECTORIZATION OF 36" TRAFFIC COMES USED DURING DAYLIGHT HOURS IS NOT REQUIRED IN THE EVENT A DAYTIVE FLAGGING OPERATION EXTENDS

6. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE REQUIREMENTS OF NORTH REPORT 350 OR THE AASHTO MANUAL FOR ASSESSING SAFETY

- INTO THE NIGHTIME HOURS, REPLACE ALL 36" TRAFFIC CONES WITH EITHER PORTABLE PLASTIC DRUNS OR 42" OVERSIZED TRAFFIC CONES.
 REFLECTIONIZE ALL PORTABLE PLASTIC DRUNS AND 42" OVERSIZED TRAFFIC CONES WITH TYPE IN OR GREATER FLEXBLE MICROPRISMATIC RETROREFLECTIVE SHEETING UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
- B. DELINEATE THE TANGENT AREA OF THE LANE CLOSURE WITH THE NECESSARY TRAFFIC CONTROL DEVICES TO MININZE ENCROACHMENT BY MOTORISTS INTO THE CLOSED TRAVEL LANE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ON ROADWAYS WITH POSTED REGULATORY SPEED LIMITS OF 35 MPH OR LESS, INSTALL THE TRAFFIC CONTROL DEVICES AT SPACING INTERVALS OF 25 FEET. ON ROADWAYS WITH POSTED REGULATORY SPEED LIMITS OF 40 MPH OR GREATER, INSTALL THE TRAFFIC CONTROL DEVICES AT SPACING INTERVALS OF 50 FEET. SEE TABLE B.

ADVANCE WARNING ARROW PANEL -

- L DURING FLAGGING OPERATIONS, AN ADVANCE WARNING ARROW PANEL SHALL OPERATE IN THE "FOUR CORNERS" CAUTION MODE WHEN LOCATED WITHIN OR IN BETWEEN THE LIMITS OF THE ADVANCE WARNING SIGN ARRAYS SPECIFIC TO A FLAGGING OPERATION, OPERATION OF AN ADVANCE WARNING ARROW PANEL IN AN ARROW, CHEVRON OR ANY OTHER TYPE OF CAUTION MODE OTHER THAN THE "FOUR CORNERS" CAUTION MODE WHEN LOCATED WITHIN OR IN BETWEEN THE LIMITS OF THE ADVANCE WARNING SIGN ARRAYS AS SPECIFIED HEREWBEFORE IS PROMBITED.
- 2. ALL ADVANCE WARNING ARROW PANELS SHALL COMPLY WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION. THE SPECIFIC LOCATION OF AN ADVANCE WARNING ARROW PANEL MAY REQUIRE ADJUSTMENTS QUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENT OR OTHER SIGHT DISTANCE RESTRICTIONS.

TRUCK MOUNTED ATTENUATOR

- 1. A TRUCK MOUNTED ATTENUATOR IS OPTIONAL. UTILIZATION OF A TRUCK MOUNTED ATTENUATOR SHOULD BE CONSIDERED WHEN THE MINIMUM DISTANCE REQUIREMENTS FOR THE "BUFFER SPACE" ARE UNAVAILABLE DUE TO FIELD CONDITIONS. HOWEVER, A TRALER MOUNTED ADVANCE WARRING ARROW PANEL MAY BE UTILIZED IN PLACE OF A TRUCK MOUNTED ATTEMUATOR DURING TRAFFIC CONTROL SETUPS FOR WORK ACTIVITIES SUCH AS ASPIRAL. CONCRETE PLACEMENT OPERATIONS WIEN APPROVED BY THE ENGINEER
- 2. WHEN UTILIZING A TRUCK MOUNTED ATTENUATOR, ENSURE THE TRUCK HAS THE CORRECT GROSS VEHICULAR WEIGHT (GVM) REQUIRED FOR THE TYPE OF TRUCK MOUNTED ATTENUATOR BEING UTILIZED. A DIRECT TRUCK MOUNTED TRUCK MOUNTED ATTENUATOR, A UNIT MOUNTED AND ATTACHED TO BRACKETS OR SWLAR DEVICES CONNECTED TO THE FRAME OF THE TRUCK, REQUIRES A TRUCK WITH A MINIMUM GVM OF 15,000 POUNDS (ACTUAL WIGHT) LIMITED OF THE DIRECTED BY THE DEPARTMENT. A TRALER TOWED TRUCK MOUNTED ATTENDATOR, A TRALER TYPE UNIT TOWED PROMISEHIND AND ATTACHED TO THE FRAME OF THE TRUCK VIA A PINTLE HOOK / HITCH, REQUIRES A TRUCK WITH A MINIMUM GVM OF 10,000 POUNDS CACTUAL WEIGHT) UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. F THE ADDITION OF SUPPLEMENTAL WEIGHT TO THE VEHICLE AS BALLAST IS NECESSARY, CONTAIN THE MATERIAL WITHIN A STRUCTURE CONSTRUCTED OF STEEL, CONSTRUCT THIS STEEL STRUCTURE TO HAVE A MINAUM OF FOUR (4) SIDES AND A BOTTOM. A TOP IS OPTIONAL, BOLT THIS STRUCTURE TO THE FRAME OF THE TRUCK, UTILIZE A SUFFICIENT NUMBER OF FASTEMERS FOR ATTACHMENT OF THE STEEL STRUCTURE TO THE FRAME OF THE TRUCK TO ENSURE THE STRUCTURE WILL NOT SEPARATE FROM THE FRAME OF THE TRUCK DURANG AN IMPACT UPON THE TRUCK MOUNTED ATTENUATOR, UTILIZE EITHER DRY LOOSE SAND OR STEEL REINFORCED CONCRETE FOR BALLAST MATERIAL WITHIN THE STEEL STRUCTURE TO ACHEVE THE NECESSARY WEIGHT, THE BALLAST MATERIAL SHALL SEMAN CONTAINED WITHIN THE CONFINES OF THE STEEL STRUCTURE IN ITS ENTIRETY AND SHALL NOT PROTRUCE FROM THE STEEL STRUCTURE IN ANY
- J. LOCATE THE TRUCK MOUNTED ATTENUATOR APPROXIMATELY IDD FEET IN ADVANCE OF THE "WORK ACTIVITY AREA" UNLESS OTHERWISE DIRECTED BY
- 4. PROVICE, INSTALL AND MANTAN THE TRUCK MOUNTED ATTENUATOR AS SPECIFIED BY THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE

GENERAL.

1. CONDUCT THE WORK IN SUCH A MANNER SO AS NOT TO ENCROACH ONTO THE ADJACENT TRAVEL LANE OPEN TO TRAFFIC, INSTALL, MANTAN AND

"APPROACH TAPER" OF THE SECOND LANE CLOSURE ENCOUNTERED BY A MOTORIST UNLESS OTHERWISE DIRECTED BY THE ENGNEER.

- ADJUST THE TRAFFIC CONTROL DEVICES AS NECESSARY TO ENSURE PROPER DELINEATION OF THE WORK AREA. 2. F WORK IS BEING CONDUCTED AT TWO DIFFERENT LOCATIONS AT THE SAVE TIME, SEPARATE THE TWO LOCATIONS BY NO LESS THAN 2 MLES FROM THE LAST TRAFFIC CONTROL DEVICE IN THE "DOWNSTREAM TAPER" OF THE FIRST LANE CLOSURE TO THE FIRST TRAFFIC CONTROL DEVICE IN THE
- 3. THE DEPARTMENT RESERVES THE RIGHT TO RESTRICT WORK OPERATIONS AND/OR WITHHOLD THE MONTHLY ESTIMATE IF THE TRAFFIC CONTROL IS NOT PROPERLY INSTALLED AND MAINTAINED AS DIRECTED BY THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, THE STANDARD DRAWINGS, THE PLANS AND/OR THE ENGINEER.

TABLE A SIGN PLACEMENT INTERVALS SPEED LIMIT * # £ 35 MPH LOW SPEED 200 # 40 - 50 MPH INTERMEDIATE SPEED 350 55 MPH 500 HIGH SPEED

REGULATORY POSTED SPEED LIMIT PRIOR TO BEGINNING WORK

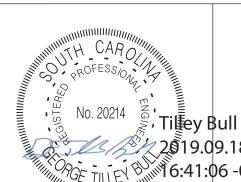
TRAFFIC CONTROL DE WORK ACTIVITY /	EVICE SPACING INTERVALS BUFFER SPACE AREAS
SPEED LIMIT	SPACING INTERVALS
≤ 35 MPH	25 FEET
40 - 55 MPH	50 FEET

TRUCK MOUNTED ATTENUATOR (OPTIONAL) THE THEOR MOUNTED ATTENUATOR & THE ADVANCE WARNES OF THE WORK ACTIVATOR (WICKLESS OF THE WORK ACTIVATOR (WI	MCSOAAL AND THE ARROW PARE. SHALL DISBATE IN THE SHALL DISBATE IN THE LAMPS WITH DIR. LAMP IN LAMPS WITH LAMPS W
DOWNSTREAM TAPER SO TO 100" TAPER NO LESS THAN FIVE US) TRAFFIC CONTROL DEVICES WI THE TAPER COUALLY SPACED 6 10" TO 25" INTERVALS AS NECESSARY TO CORRESPOND WITH THE LENGTH OF THE TAPER 100" 2 MILE MAX. 100"	DEFTER SPACE 200" TO 400" WITH TRUCK MOUNTED ATTENUATOR TRAFFIC CONTROL DEVICES BY THE TAPER EQUALY SPACED 6 30" TO SPACED 7 TO SPAC
MEDIANE PLOCES ** WID-1-48-A ** WI	BUFFER SPACE 2507 TO 4007 WITHOUT TRUCK MOUNTED ATTENUATOR TRAFFIC CONTROL OCVICES #TETVAL SPACENCS BASED UPON POSTED REQULATORY SPEED LIMIT

SIGN PLACEMEN	IT INTERVALS
SPEED LIMIT	*
\$ 35 MPH LOW SPEED	200
40 - 50 MPH INTERMEDIATE SPEED	350
55 MPH HIGH SPEED	500

ARE B	
	EVICE SPACING INTERVALS BUFFER SPACE AREAS
SPEED LIMIT	SPACING INTERVALS
≤ 35 MPH	25 FEET
40 - 55 MPH	50 FEET





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	DGN	JJG	DATE		
	R/W		DATE		
1.700	CHK	GTB	DATE		

GEORGETOWN COUNTY ENGINEERED ROADS PROGRAM EVANS PLACE

LANE CLOSURE

1. FILTER FABRIC IS USED FOR INLET PROTECTION WHEN STORMWATER FLOWS ARE RELATIVELY SMALL (1.0 CFS OR LESS) WITH LOW VELOCITIES, WHERE THE INLET DRAINS AREA HAS GRADES NO GREATER THAN 5% AND THE IMMEDIATE DRAINAGE AREA AROUND THE INLET (5 FOOT RADIUS) HAS GRADES LESS THAN 1%. DO NOT USE IN AREAS RECEIVING CONCENTRATED FLOW OR WHERE DITCHES ARE PAVED. A TRENCH SHALL BE EXCAVATED 6 INCHES WIDE AND 6 INCHES DEEP AROUND THE OUTER PERIMETER OF THE STAKES UNLESS FABRIC IS PNEUMATICALLY INSTALLED.

2. FILTER FABRIC SHALL CONFORM TO SCOOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION). FILTER FABRIC SHALL EXTEND A MINIMUM OF 12 INCHES INTO THE TRENCH. THE TRENCH SHALL BE BACKFILLED WITH SOIL OR CRUSHED STONE AND COMPACTED OVER THE FILTER FABRIC UNLESS FABRIC IS PNEUMATICALLY INSTALLED.

3. USE STEEL POSTS WITH A MINIMUM POST LENGTH OF 5 FEET CONSISTING OF STANDARD "T" SECTIONS WITH A WEIGHT OF 1.25 POUNDS PER FOOT (±8%). THE HEIGHT OF THE FILTER BARRIER ABOVE GROUND SHALL BE A MINIMUM OF 24 INCHES. POSTS SHALL BE SPACED AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 2 FEET APART AND DRIVEN INTO THE GROUND A MINIMUM OF 24 INCHES. ATTACH FABRIC TO POSTS USING ONLY HEAVY DUTY PLASTIC TIES. ATTACH AT LEAST 4 EVENLY SPACED TIES IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC.

4. FILTER FABRIC SHOULD BE IN A CONTINUOUS ROLL AND CUT TO THE LENGTH OF THE PROTECTED AREA TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY. FILTER FABRIC SHOULD BE WRAPPED TOGETHER ONLY AT A SUPPORT POST WITH BOTH ENDS SECURELY FASTENED TO THE POST WITH A MINIMUM 6 INCH OVERLAP.

5. PROVIDE A FILTER FABRIC CAPABLE OF REDUCING EFFLUENT SEDIMENT CONCENTRATIONS BY NOT LESS THAN 80% UNDER TYPICAL SEDIMENT MIGRATION CONDITIONS.

INSPECTION AND MAINTENANCE:

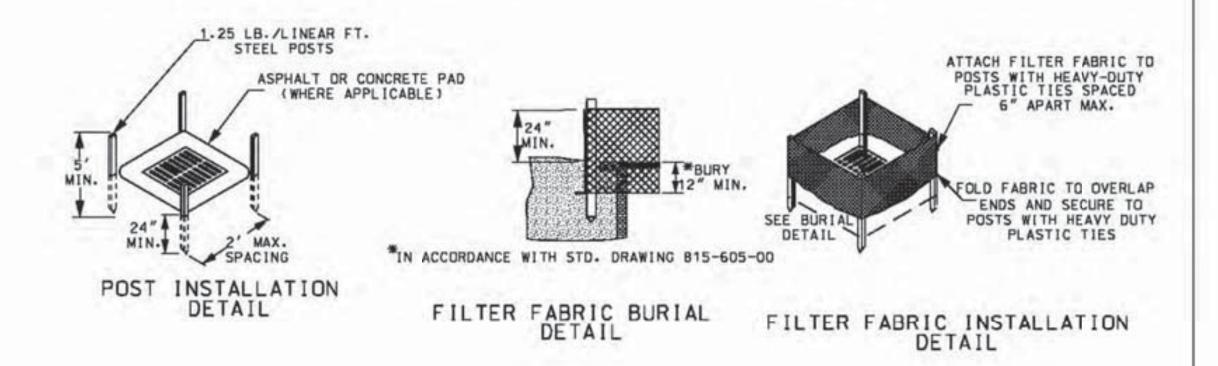
1. INSPECTIONS SHOULD BE MADE EVERY SEVEN (7) CALENDAR DAYS. ANY NEEDED REPAIRS SHOULD BE HANDLED IMMEDIATELY.

2. IF THE FABRIC BECOMES CLOGGED. IT SHOULD BE REPLACED.

3. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE HEIGHT OF THE FILTER FABRIC. IF A SUMP IS USED. SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE HOLE. MAINTAIN THE POOL AREA. ALWAYS PROVIDING ADEQUATE SEDIMENT STORAGE VOLUME FOR THE NEXT STORM. TAKE CARE NOT TO DAMAGE OR UNDERCUT FABRIC WHEN REMOVING SEDIMENT. CLEANING INLET STRUCTURE FILTERS IS PAID FOR EACH (EA) FILTER CLEANED OF DEPOSITED SEDIMENT FROM THE AREA ADJACENT TO EACH INLET STRUCTURE FILTER.

4. STORM DRAIN INLET PROTECTION STRUCTURES SHOULD BE REMOVED DNLY AFTER THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT. AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO DRAIN. USE APPROPRIATE PERMANENT STABILIZATION METHODS TO STABILIZE BARE AREAS AROUND THE INLET.

5. THE PAY ITEMS SHALL BE: 8156219 INLET STRUCTURE FILTER TYPE A_____LF 8154155 CLEANING INLET STRUCTURE FILTERS_____EA



TYPE A
LOW FLOW INLET FILTERS
(FILTER FABRIC INLET PROTECTION)

THIS DRAWING IS NOT TO SCALE

INSTALLATION:

1. INSTALL SEDIMENT TUBES BY LAYING THEM FLAT ON THE GROUND. CONSTRUCT A SMALL TRENCH TO A DEPTH THAT IS 20% OF THE SEDIMENT TUBE DIAMETER. LAY THE SEDIMENT TUBE IN THE TRENCH AND COMPACT THE UPSTREAM SEDIMENT TUBE/SOIL INTERFACE. INSTALL ALL SEDIMENT TUBES SO NO GAPS EXIST BETWEEN THE SOIL AND THE BOTTOM OF THE SEDIMENT TUBE. LAP THE ENDS OF ADJACENT SEDIMENT TUBES A MINIMUM OF 6 INCHES TO PREVENT FLOW AND SEDIMENT FROM PASSING THROUGH THE FIELD JOINT. NEVER STACK SEDIMENT TUBES ON TOP OF ONE ANOTHER.

2. SHOULD SEDIMENT TUBE BECOME DAMAGED DURING INSTALLATION, PLACE A STAKE ON BOTH SIDES OF THE TUBE SECURITY AND INSTALL A NEW TUBE SECURITY

3. INSTALL SEDIMENT TUBES USING WOODEN STAKES WITH A MINIMUM POST LENGTH OF 4 FEET AND A MINIMUM MEASURED DIMENSION OF 3/4" X 3/4" AND A MAXIMUM MEASURED DIMENSION OF 2" X 2". OR USING STEEL POSTS (1,25 lbs./linear foot). USE STEEL POSTS WITHOUT A SOIL PLATE AND PAINTING IS NOT REQUIRED. SPACE POSTS OR STAKES ON 2-FOOT CENTERS AND DRIVE THEM INTO THE GROUND TO A MINIMUM DEPTH OF 2 FEET. INSTALL THE STAKES ON THE DOWNSTREAM (1/3) OF THE SEDIMENT TUBE. ENSURE THE AREAS FOR STAKE INSTALLATION ARE COMPACTED SO THE POSTS ARE PROPERLY INSTALLED.

INSPECTION AND MAINTENANCE:

1. INSPECT SEDIMENT TUBES AFTER INSTALLATION FOR GAPS UNDER THE SEDIMENT TUBES AND FOR GAPS BETWEEN THE JOINTS OF ADJACENT ENDS OF SEDIMENT TUBES. REPAIR RILLS, GULLIES, AND ALL UNDERCUTTING NEAR SEDIMENT TUBES. INSPECT SEDIMENT TUBES EVERY 7 DAYS.

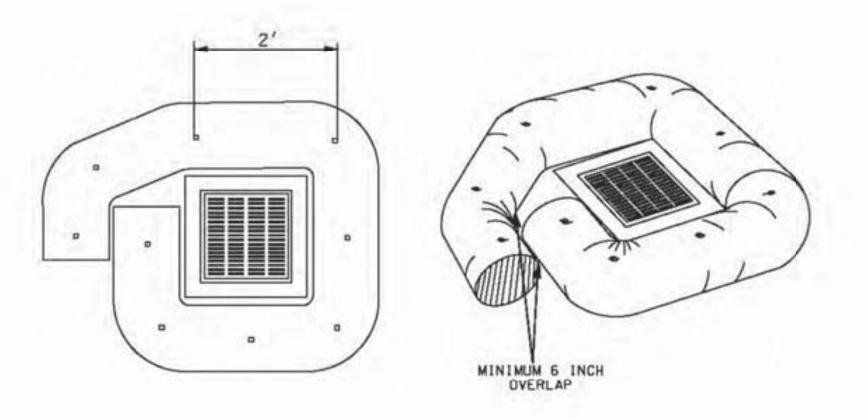
2. REMOVE SEDIMENT WHEN IT REACHES APPROXIMATELY 1/3 HEIGHT OF THE INLET STRUCTURE FILTER. IF A SUMP IS USED, REMOVE SEDIMENT WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE HOLE. MAINTAIN THE POOL AREA. ALWAYS PROVIDING ADEQUATE SEDIMENT STORAGE VOLUME FOR THE NEXT STORM EVENT. CLEANING INLET STRUCTURE FILTER IS PAID FOR EACH (EA) FILER CLEANED OF DEPOSITED SEDIMENT FROM THE AREA ADJACENT TO EACH INLET STRUCTURE FILTER.

3. REMOVE AND/OR REPLACE INSTALLED SEDIMENT TUBES AS REQUIRED TO ADAPT TO CHANGING CONSTRUCTION SITE CONDITIONS.

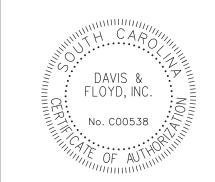
4. REMOVE ALL SEDIMENT TUBES FROM THE SITE WHEN THE FUNCTIONAL LONGEVITY IS EXCEEDED AS DETERMINED BY THE ENGINEER. INSPECTOR. OR MANUFACTURER'S REPRESENTATIVE.

5. DISPOSE OF SEDIMENT TUBES BY REGULAR MEANS AS NON-HAZARDOUS. INERT MATERIAL.

6. THE PAY ITEMS SHALL BE:
8156219 INLET STRUCTURE FILTER TYPE A....LF
8154155 CLEANING INLET STRUCTURE FILTERS....EA



TYPE A
LOW FLOW INLET FILTERS
(SEDIMENT TUBE INLET PROTECTION)





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3229 CHAR 843)	R/W		DATE			
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NOTES:

STATE

COUNTY

s.c. | Georgetown |

I) ANY REFERENCES TO PAYMENT IS SUPERCEDED BY PROJECT SPECIFICATIONS IN THE CONTRACT.

ROAD NAME

EVANS PLACE

D13

D&F PROJECT NO.

31742.08

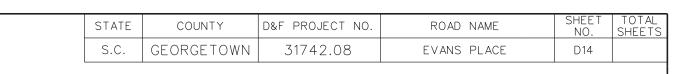
2) FIELD ADJUSTMENTS TO IMPLEMENT DETAILS
MAY BE REQUIRED AND CAN BE APPROVED BY
THE COUNTY RESIDENT CONSTRUCTION MANAGER
OR THE PROJECT ENGINEER.

GEORGETOWN COUNTY

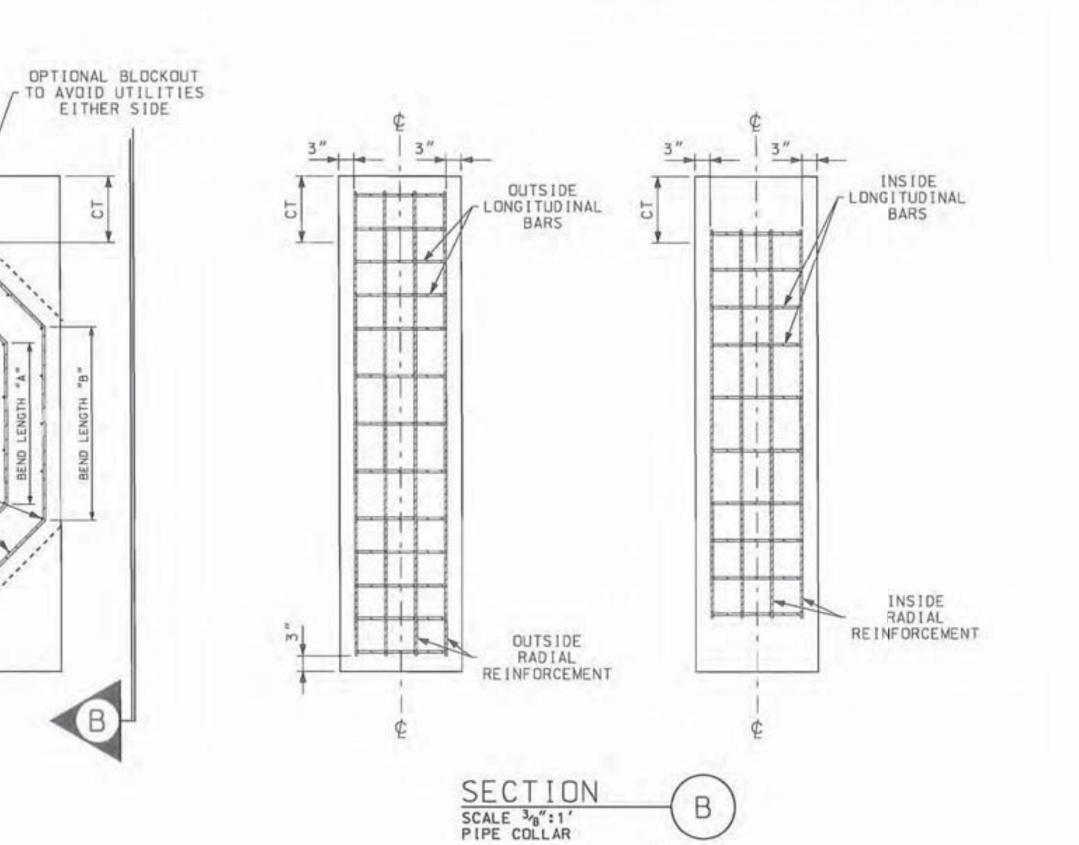
ENGINEERED ROADS PROGRAM

EVANS PLACE

TYPE A INLET STRUCTURE FILTERS DETAIL



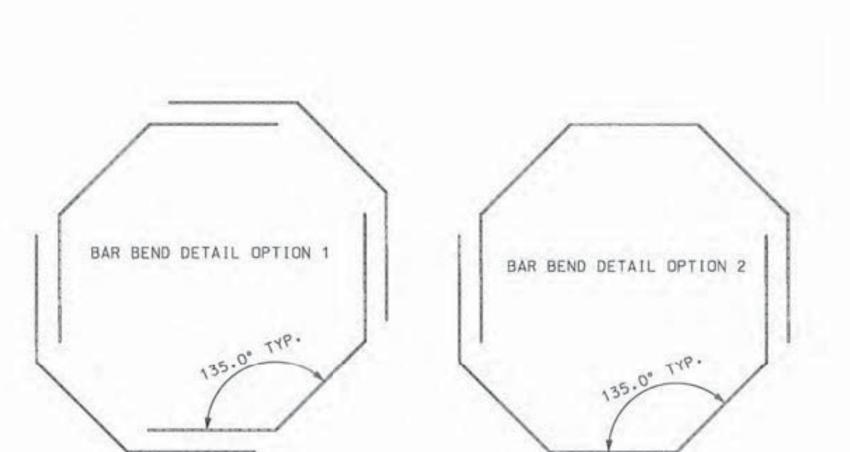
SEE STANDARD DRAWING 719-705-02 FOR NOTES.



NOTES:

I) ANY REFERENCES TO PAYMENT IS SUPERCEDED BY PROJECT SPECIFICATIONS IN THE CONTRACT.

2) FIELD ADJUSTMENTS TO IMPLEMENT DETAILS
MAY BE REQUIRED AND CAN BE APPROVED BY
THE COUNTY RESIDENT CONSTRUCTION MANAGER
OR THE PROJECT ENGINEER.



DETAIL

SCALE 4":1"
RADIAL REINFORCEMENT
BENDING OPTIONS

HDPE

RADIAL REINFORCEMENT

NOTE: FOR CLARITY LONGITUDINAL BARS NOT SHOWN.

COLLAR

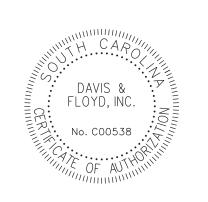
DETAIL

SCALE 3/8":1' PIPE COLLAR ELEVATION

RADIAL BAR SPACING

			TABLE	: 719-705A			
PIPE INSIDE DIAMETER	COLLAR THICKNESS. [CT]	REINFORCING STEEL BAR	RADIAL SPACING	BEND LENGTH	BEND LENGTH	ND. OF "A" LONGITUDINAL BARS	NO. DF "B" LONGITUDINAL BARS
12"	8 "	NO. 4	9"	9.30"	11.4"	2	2
24"	8 "	NO. 4	9"	15.1"	17.2"	3	3
36"	10"	NO. 4	6"	21.0"	24.7"	3	4
48"	10"	NO. 4	6"	26.75"	30.5"	4	4
60"	13"	NO. 4	6"	32.5"	38.75"	4	- 5
72"	13"	NO. 4	6"	38.3"	45.5"	5	5

NOTE: THE BEND LENGTHS "A" & "B". ARE BASED ON THE CLEARANCES FROM THE DUTSIDE DIAMETER OF A C-WALL RCP.



3" MIN. CLEAR COVER

LONGITUDINAL BARS

> SCALE 3/8":1' PIPE COLLAR PLAN VIEW

2" MIN. CLEAR COVER

OUTSIDE LONGITUDINAL

LOPTIONAL OCTAGONAL CORNERS-



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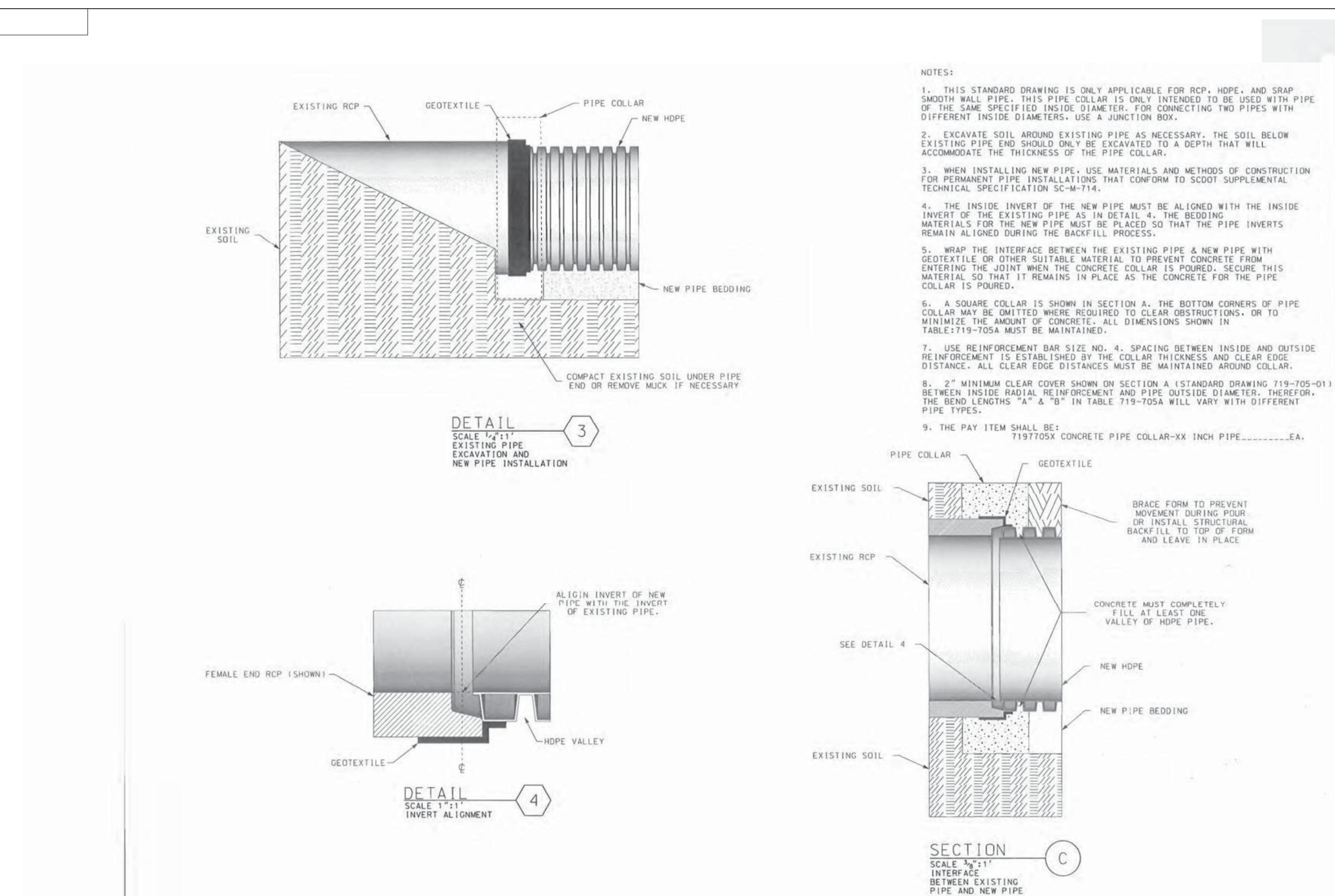
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GEORGETOWN COUNTY ENGINEERED ROADS PROGRAM

EVANS PLACE DRAINAGE STRUCTURE UNIVERSAL PIPE COLLAR DETAIL



STATE COUNTY D&F PROJECT NO. ROAD NAME s.c. Georgetown 31742.08 EVANS PLACE D15

NOTES:

1) ANY REFERENCES TO PAYMENT IS SUPERCEDED BY PROJECT SPECIFICATIONS IN THE CONTRACT.

2) FIELD ADJUSTMENTS TO IMPLEMENT DETAILS MAY BE REQUIRED AND CAN BE APPROVED BY THE COUNTY RESIDENT CONSTRUCTION MANAGER OR THE PROJECT ENGINEER.



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7197705X CONCRETE PIPE COLLAR-XX INCH PIPE____EA.

CONCRETE MUST COMPLETELY

FILL AT LEAST ONE VALLEY OF HDPE PIPE.

NEW PIPE BEDDING

NEW HDPE

BRACE FORM TO PREVENT MOVEMENT DURING POUR DR INSTALL STRUCTURAL BACKFILL TO TOP OF FORM AND LEAVE IN PLACE

GEOTEXTILE

1.1	4					
3229 W. MONTAGUE AVENUE CHARLESTON, SC 29418 (843) 554-8602	3					
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GEORGETOWN COUNTY ENGINEERED ROADS PROGRAM

EVANS PLACE TYPE A INLET STRUCTURE FILTERS DETAIL



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