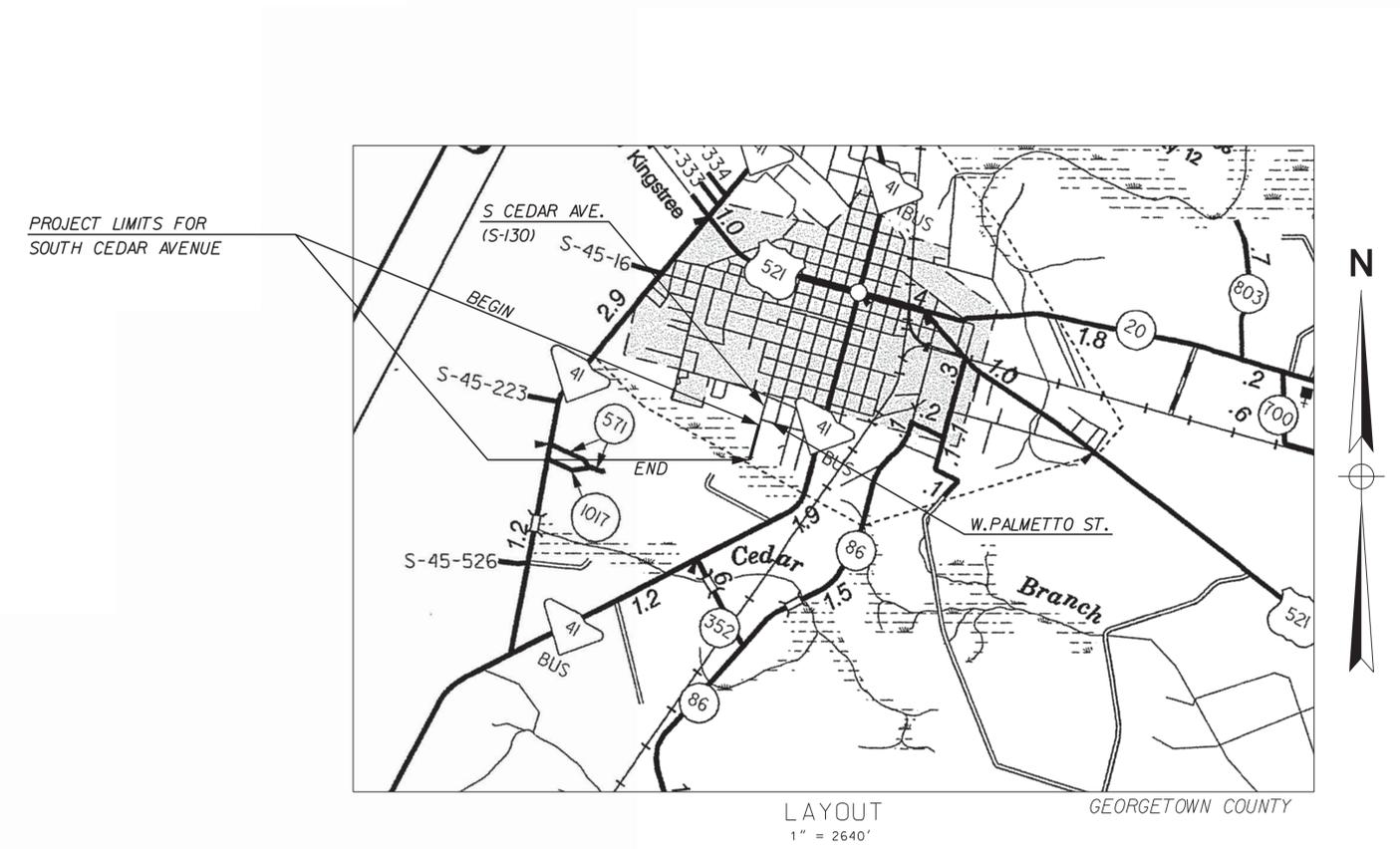


STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	ROUTE NO.	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31810.02	SOUTH CEDAR AVE.		1	13

# GEORGETOWN COUNTY DEPARTMENT OF PUBLIC SERVICES

## DIVISION OF PUBLIC WORKS

### PLAN OF PROPOSED IMPROVEMENTS FOR SOUTH CEDAR AVENUE



## DAVIS & FLOYD

SINCE 1954

WWW.DAVISFLOYD.COM

3229 W. MONTAGUE AVENUE  
COLUMBIA, SC 29418  
(803) 554-8802

**NPDES PERMIT INFORMATION**

NPDES Disturbed  
Area = 0.70 Acres

Approximate Location of Roadway is:  
Longitude 79°34'17.40"W  
Latitude 33°26'20.54"N

Hydrology and NPDES Design  
provided by:  
Davis & Floyd

NET LENGTH OF ROADWAY .....	0.099 MILES
NET LENGTH OF OUTFALL .....	0.000 MILES
NET LENGTH OF PROJECT .....	0.099 MILES
LENGTH OF EXCEPTIONS .....	0.000 MILES
GROSS LENGTH OF PROJECT .....	0.099 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.

RAILROAD INVOLVEMENT?

YES /  NO

SHEET #	DESCRIPTION	SHEET TOTALS
01	TITLE SHEET	1
03	TYPICAL SECTIONS	1
05	GENERAL CONSTRUCTION NOTES	1
05A	REFERENCE SHEET	1
06	PLAN AND PROFILE SHEET	1
EC01	EROSION CONTROL SHEET	1
XI - X2	CROSS SECTIONS	2
DI-D5	DETAIL SHEETS	5
	<b>TOTAL SHEETS</b>	<b>13</b>

3 DAYS BEFORE DIGGING IN  
SOUTH CAROLINA

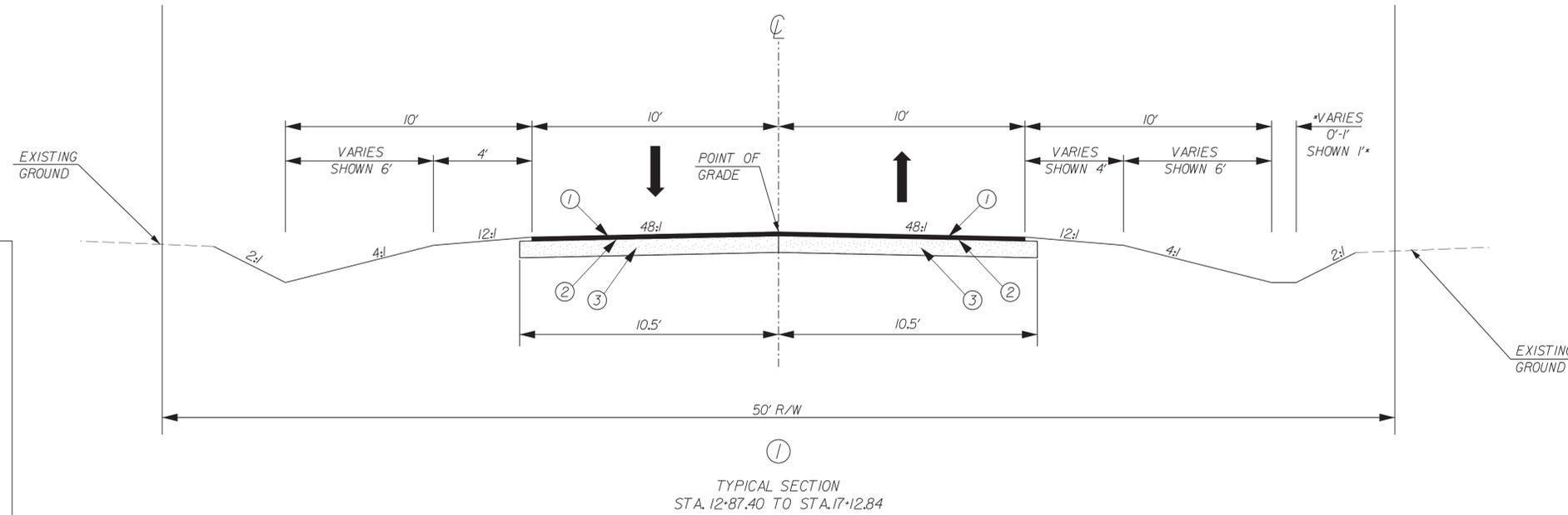
**CALL 811**

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

<p>CONSULTING ENGINEERING FIRM</p> <p style="font-size: small;">DAVIS &amp; FLOYD, INC. No. C00538</p>	<p>CONSULTANT - PROJECT ENGINEER</p> <p style="font-size: small;">No. 20214 GEORGE TILLEY BULL</p>
--	--

FOR CONSTRUCTION : June 20, 2018  
DATE

TYPICAL SECTION  
SOUTH CEDAR AVENUE



NOTES:  
 1) CONSTRUCT SPECIAL DITCH:  
 SOUTH CEDAR AVE. LT STA. 13+02.38 TO STA. 17+12.84  
 SOUTH CEDAR AVE. RT STA. 12+92.12 TO STA. 14+22.53 AND STA. 16+00.00 TO STA. 16+88.16  
 2) PROVIDE UNIFORM TRANSITION FROM SPECIAL DITCH SECTIONS TO TYPICAL DITCH SECTIONS  
 3) BEGIN CUL-DE-SAC STA. 17+12.84 SEE CROSS SECTIONS AND PLAN SHEET FOR MORE INFORMATION.  
 \* INSTALL 1 FT FLAT BOTTOM DITCH FROM STA. 12+92.12 TO STA. 14+20.79 RT. SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION

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)

PAVEMENT LEGEND

①		H/M ASPHALT CONCRETE SURFACE COURSE TYPE C (200*/SY)
②		PRIME COAT
③		6" GRADED AGGREGATE BASE COURSE



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 SINCE 1954  
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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1			
DGN.	AMS	DATE	
R/W		DATE	
CHK.	GTB	DATE	

GEORGETOWN COUNTY  
 ENGINEERED ROADS PROGRAM  
 SOUTH CEDAR AVENUE  
 TYPICAL SECTION  
 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.

PAVE ALL DRIVEWAYS TO R/W LINE. UNLESS THE DRIVEWAY IS LABELED, THE STANDARD DRIVEWAY RADIUS IS 10'. THIS MAY 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 OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING CONSTRUCTION.

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:**

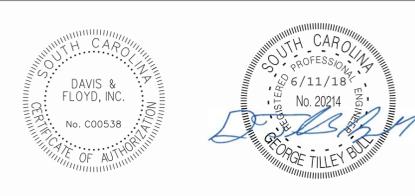
- IF A SIGN MARKED TO BE RELOCATED IS DAMAGED BY THE CONTRACTOR, THE CONTRACTOR IS RESPONSIBLE FOR REPLACING THE SIGN.
- CONTRACTOR IS TO SAW-CUT CONNECTIONS TO EXISTING ROADWAYS AND/OR DRIVEWAYS WHERE APPLICABLE.
- CONTRACTOR IS TO PAVE DRIVEWAY APRONS TO RIGHT-OF-WAY LIMITS.

CONCRETE MARKER		STATE LINE		NORTH CAROLINA / SOUTH CAROLINA		MARSH/SWAMP		BUILDING		FRAME DWLG.	
R/W MONUMENT	⊠	STATE LINE	---	NORTH CAROLINA	---	MARSH/SWAMP	~	BUILDING	▭	FRAME DWLG.	▭
PROPERTY CORNER	○	COUNTY LINE	---	RICHLAND COUNTY	---	PAMPAS GRASS	~	RIVERS, CREEKS, STREAMS	~	EXISTING BOX CULVERT	→---←
PROPERTY PIN	⊙	CITY LIMITS	---	LEXINGTON COUNTY	---	BENCHMARK	⊕ B.M. 124	NEW BOX CULVERT	→---←	BRIDGE	→---←
SIGN	⊠	PRESENT RIGHT-OF-WAY /PROPERTY LINE	---	COLUMBIA CITY LIMITS	---	SPOT ELEVATION	37.612	NPDES	---	DRAINAGE DITCHES	→---←
NEW SIGN	⊠	PRESENT RIGHT-OF-WAY /PROPERTY LINE	---	PRESENT 50' R/W	---	FILL CAP FOR UNDERGROUND TANK	⊕	NEW DRAINAGE STRUCTURES	→---←	EXISTING DRAINAGE STRUCTURES/PIPE	→---←
ELECTRIC PEDESTAL	⊠	PRESENT RIGHT-OF-WAY /EXISTING CONTROL OF ACCESS	---	PRESENT 33' R/W	---	WITNESS POST	⊕	NEW PIPE	→---←	EXISTING PIPE	→---←
UNDERGROUND TANK	⊠	NEW RIGHT-OF-WAY	---	ROADWAY SIDE	---	PARKING METER	⊕	NORTH ARROW	→---←	FACE OF CURB	→---←
WELL	⊠	NEW RIGHT-OF-WAY	---	NEW 50' R/W	---	ELECTRIC OUTLET/RESIDENTIAL	⊕	RAILROAD TRACK	→---←	EXISTING GUARDRAIL w/ TYPE B END TREATMENT	→---←
AIR CONDITIONER	⊠	NEW RIGHT-OF-WAY	---	NEW 45' R/W	---	VACUUM/COMMERCIAL	⊕	NEW GUARDRAIL	→---←	TYPE T END TREATMENT	→---←
COLUMN	⊠	NEW RIGHT-OF-WAY /NEW CONTROL OF ACCESS	---	ROADWAY SIDE	---	SEDIMENT DAM	⊕				
RADIO/TV/CELLULAR TOWER	⊠	CONSTRUCTION LIMITS	---	22'C / 24'F / 21'C	---	SEDIMENT FILTER	⊕				
SATELLITE DISH	⊠	EXISTING FENCE	---	X X X X X	---	TREE/SHRUB (NOT SURVEYED)	⊕				
GRAVE	⊠	NEW FENCE	---	X X X X X	---	TREE/SHRUB (SURVEYED)	⊕				
SPRING	⊠	EXISTING PAVED ROAD	---	---	---	WOODED AREA OUTLINE	⊕				
GEODETIC MARKER	⊠	EXISTING DIRT ROAD	---	---	---	TREE LINE	⊕				
FLOOD/GROUND LIGHT	⊠	EXISTING PAVED ROAD WITH CURB & GUTTER	---	---	---	R/R CROSSING ARM	⊕				
TELEPHONE BOX	⊠	NEW PAINTED MEDIAN	---	---	---	R/R MILE POST	⊕				
WATER SPIGOT	⊠	NEW CONCRETE SIDEWALK / MEDIAN/DITCH GUTTER	---	---	---	R/R SIGNAL	⊕				
SPRINKLER	⊠					R/R SIGNAL BOX	⊕				
FLAG POLE	⊠										

**INCLUSION ITEMS**

THE FOLLOWING QUANTITIES ARE NOT SHOWN IN DETAIL ON THE PLANS BUT ARE INCLUDED IN THE SUMMARY OF ESTIMATED QUANTITIES 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	194.000	FOR STRIPPING
BORROW EXCAVATION	CY	253.000	FILL FOR STRIPPING
MUCK EXCAVATION	CY	200.000	FOR UNSUITABLE MATERIAL
MAINTENANCE STONE	TON	20.000	WHERE DIRECTED BY ENGINEER
PERMANENT VEGETATION	MSY	3.989	FOR ALL DISTURBED AREAS
TEMPORARY VEGETATION	MSY	3.989	FOR ALL DISTURBED AREAS
SILT FENCE	LF	200.000	WHERE DIRECTED BY ENGINEER
PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	SF	76.000	WHERE DIRECTED BY ENGINEER
STABILIZED CONSTRUCTION ENTRANCE	SY	146.000	WHERE DIRECTED BY ENGINEER



**DAVIS & FLOYD**  
SINCE 1954  
WWW.DAVISFLOYD.COM

3228 W. MONTAGUE AVENUE  
CHARLESTON, SC 29418  
(843) 554-8602

4			
3			
2			
1			
REV. NO.	BY	DATE	DESCRIPTION OF REVISION
DGN.	AMS	DATE	
R/W		DATE	
CHK.	GTB	DATE	

GEORGETOWN COUNTY  
ENGINEERED ROADS PROGRAM

SOUTH CEDAR AVENUE  
GENERAL CONSTRUCTION NOTES

CONTROL POINTS

BM #	NAIL	NORTHING	EASTING	OFFSET	STATION	ELEVATION
BM #1	NAIL	587217.51	2435703.59	0.35' RT	12+88.86	31.49
BM #2	REBAR AND CAP	586797.92	2435614.26	20.88' LT	17+17.26	27.12

Beginning chain S\_CEDAR description

Point 271 N 587,496.3481 E 2,435,779.0093 Sta 10+00.00

Course from 271 to PC S\_CEDAR1 S 15°03'55.27"W Dist 297.4189

Curve Data

Curve S\_CEDAR1  
P.I. Station 13+28.79 N 587,178.8606 E 2,435,693.5505  
Delta = 1°26'15.99" (LT)  
Degree = 2°17'30.59"  
Tangent = 31.3691  
Length = 62.7348  
Radius = 2,500.0000  
External = 0.1968  
Long Chord = 62.7332  
Mid.Ord. = 0.1968  
P.C. Station 12+97.42 N 587,209.1515 E 2,435,701.7040  
P.T. Station 13+60.15 N 587,148.3746 E 2,435,686.1597  
C.C. N 586,559.3499 E 2,438,115.7790  
Back = S 15°03'55.27"W  
Ahead = S 13°37'39.28"W  
Chord Bear = S 14°20'47.27"W

Curve Data

Curve S\_CEDAR2  
P.I. Station 13+91.52 N 587,117.8887 E 2,435,678.7688  
Delta = 1°26'15.99" (RT)  
Degree = 2°17'30.59"  
Tangent = 31.3691  
Length = 62.7348  
Radius = 2,500.0000  
External = 0.1968  
Long Chord = 62.7332  
Mid.Ord. = 0.1968  
P.C. Station 13+60.15 N 587,148.3746 E 2,435,686.1597  
P.T. Station 14+22.89 N 587,087.5978 E 2,435,670.6153  
C.C. N 587,737.3994 E 2,433,256.5404  
Back = S 13°37'39.28"W  
Ahead = S 15°03'55.27"W  
Chord Bear = S 14°20'47.27"W

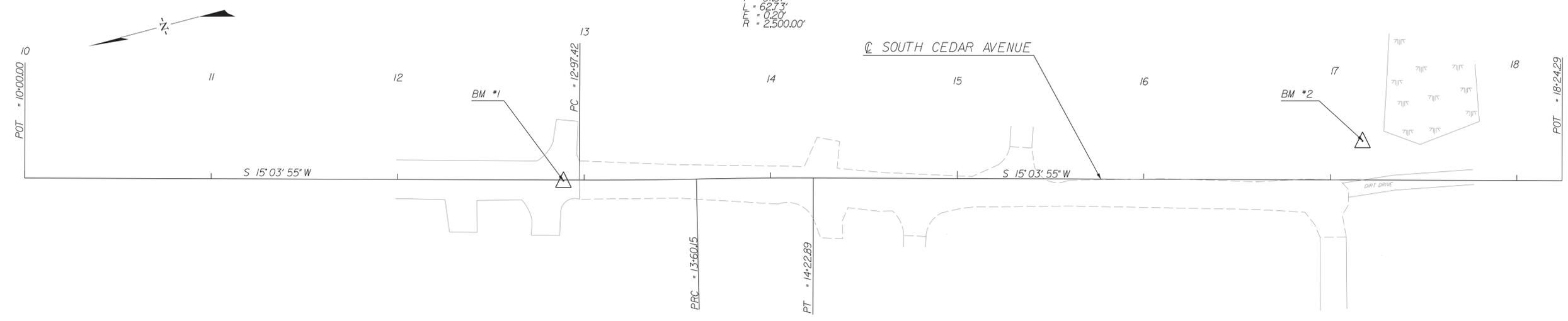
Course from PT S\_CEDAR2 to 272 S 15°03'55.27"W Dist 401.4011

Point 272 N 586,699.9928 E 2,435,566.2829 Sta 18+24.29

Ending chain S\_CEDAR description

CURVE S\_CEDAR2  
PI = 13+91.52  
D = 1°26'15" (RT)  
T = 31.37'  
L = 62.73'  
E = 0.20'  
R = 2,500.00'

CURVE S\_CEDAR1  
PI = 13+28.79  
D = 1°26'16" (LT)  
T = 31.37'  
L = 62.73'  
E = 0.20'  
R = 2,500.00'



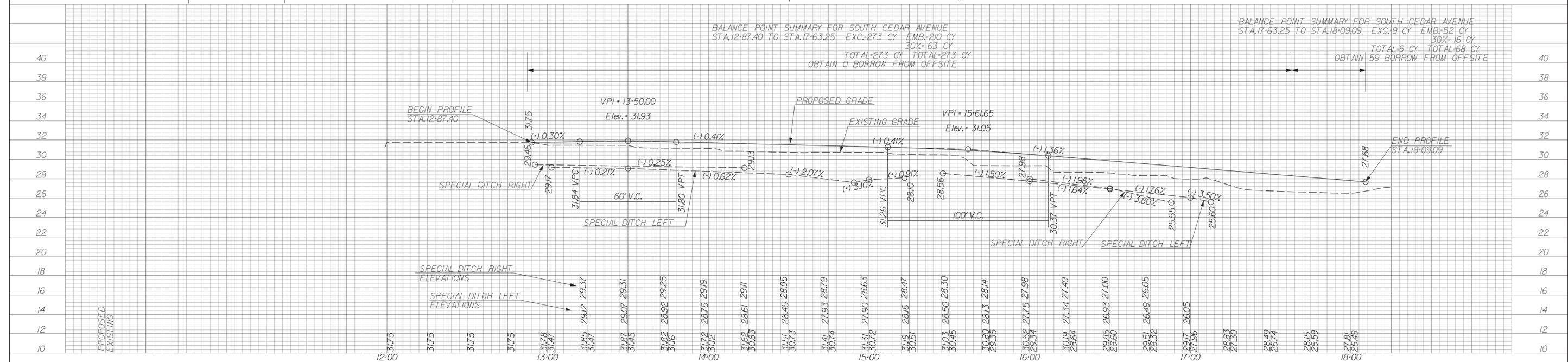
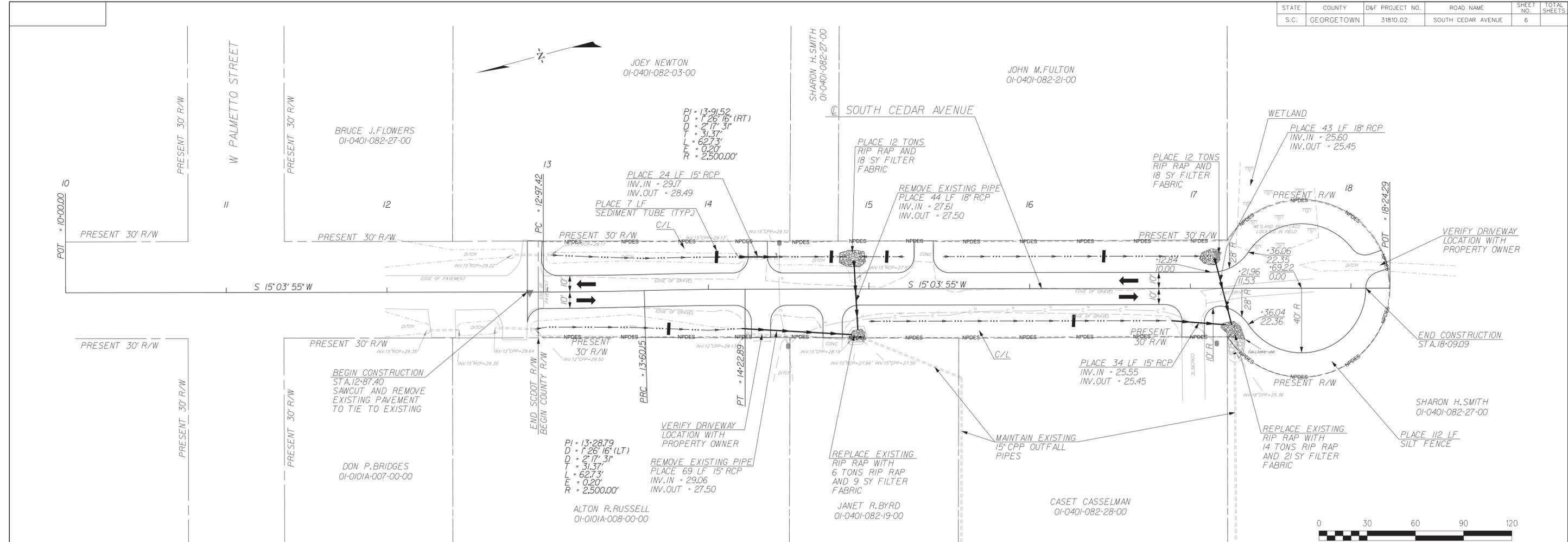
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REV. NO.	BY	DATE	DESCRIPTION OF REVISION	
DGN.	AMS	DATE		
R/W		DATE		
CHK.	GTB	DATE		

GEORGETOWN COUNTY  
ENGINEERED ROADS PROGRAM

SOUTH CEDAR AVENUE  
REFERENCE SHEET

SCALE 1" = 30'



STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31810.02	SOUTH CEDAR AVE.	EC1	

### OCRM STANDARD NOTES

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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..
- 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.
- 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.
- 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.
- Minimize soil compaction and, unless infeasible, preserve topsoil.
- 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.
- 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.).
- 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.
- 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.
- 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.
- 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

- Seed all disturbed areas of construction (excluding riprap lined ditches).
- 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.
- 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.
- Fertilizer shall be uniformly spread and disked or roto-tilled to a depth of at least 4 IN.
- 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 1/2 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.
- 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.
- Slopes shall be protected against washouts by an approved method. Any washout which occurs shall be regraded and reseeded until good sod is established.

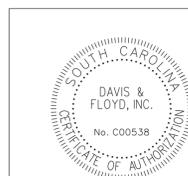
### SWPPP NARRATIVE

Ditches will be cut on both sides of the proposed roadway conveying stormwater through outfall pipes to an outfall ditch conveying stormwater to an unnamed tributary to Johnsons Swamp. 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 Bladen loam, a C/D hydrologic group soil, and Yemassee loamy fine sand, a B/D hydrologic group soil. There are 5 houses located on the properties adjacent to the project.

### SEQUENCE OF CONSTRUCTION

- Obtain all permits.
- Contact the office of Ocean and Coastal Resource Management (OCRM) at (843)238-4528 prior to commencing construction activities.
- Install sediment erosion controls as follows:
  - Silt Fences shall be used to prevent silt from leaving the limits of construction.
  - 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.
  - A temporary rock filter dam or sediment tube shall be used as ditch checks as directed by the Engineer.
  - 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.
- A recommended sequence of construction follows:
  - Clear and grub only areas necessary for perimeter erosion and sediment control silt fence, hay bales, and temporary sediment traps.
  - Construct perimeter controls.
  - Construct new drainage appurtenances within the areas protected by perimeter controls.
  - Install protection around inlets and stabilize disturbed areas as soon as possible (within 7 calendar days).
  - 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.
  - Erosion controls may be removed after the area contributing flow to that particular erosion control device has been stabilized.
  - Stabilize all remaining areas.
  - Clean out temporary sediment controls as needed; check controls every seven (7) days.
  - Remove sediment controls 30 days after all disturbed areas have stabilized.

SEE SHEETS D1-D5 FOR EROSION CONTROL DETAILS



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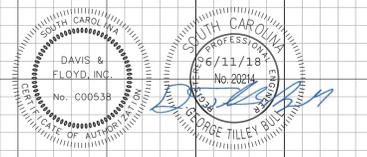
3228 W. MONTAGUE AVENUE  
CHARLESTON, SC 29418  
(843) 554-8602

4				
3				
2				
1				
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DGN.	AMS	DATE		
R/W		DATE		
CHK.	GTB	DATE		

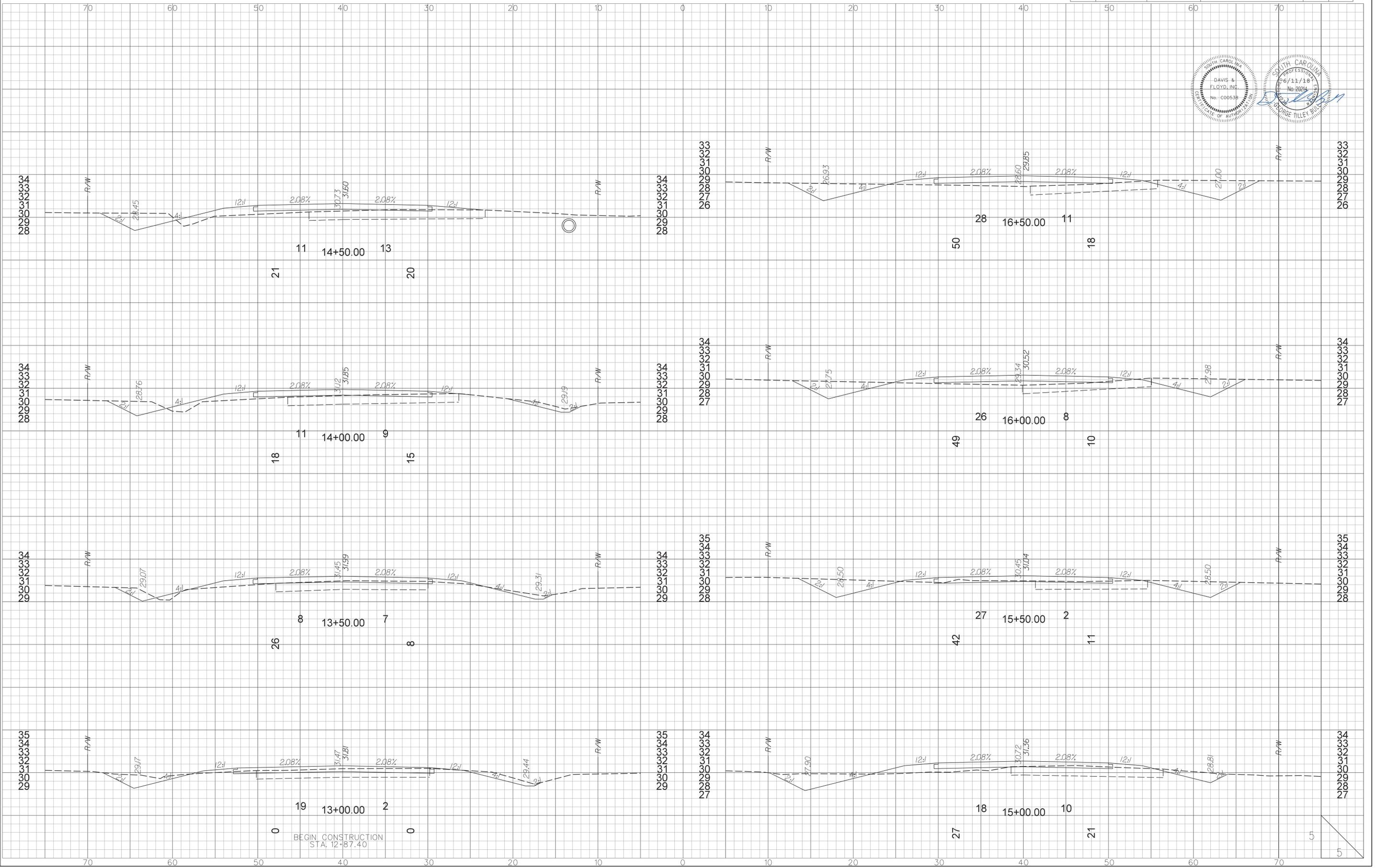
GEORGETOWN COUNTY  
ENGINEERED ROADS PROGRAM

SOUTH CEDAR AVENUE  
EROSION CONTROL NOTES

STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31810.02	SOUTH CEDAR AVE.	X1	



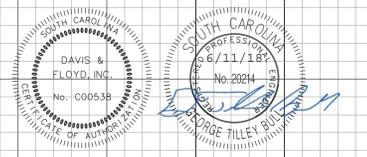
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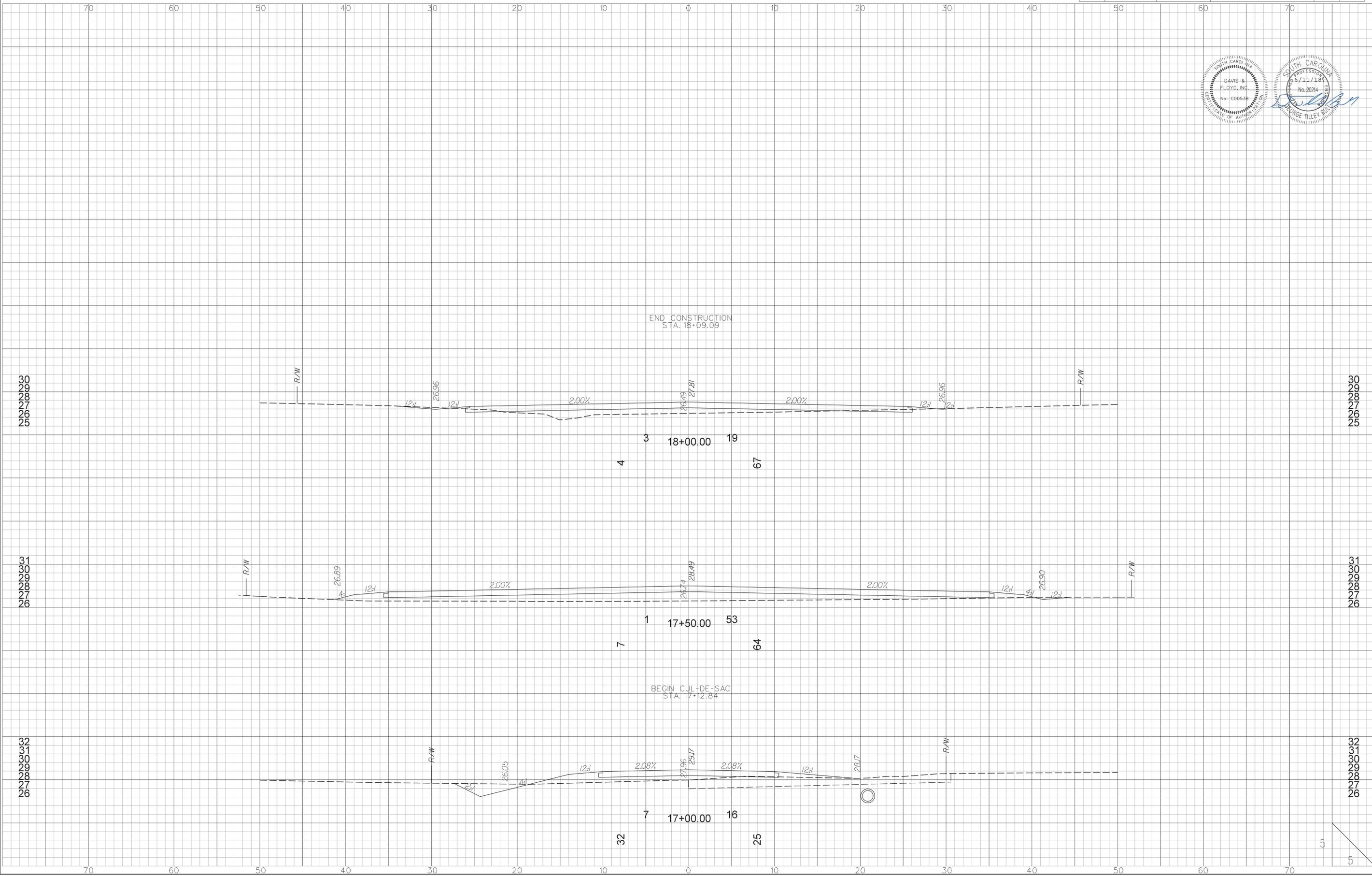
BEGIN CONSTRUCTION  
STA. 12+87.40

5

STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31810.02	SOUTH CEDAR AVE.	X2	



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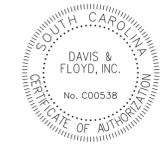


5

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 3/15/2018

PERMANENT SEEDING - COASTAL													
SPECIES	LBS/Ac	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET	10 LBS/Ac												
BAHIAGRASS	40 LBS/Ac												
BROWNTOP MILLET	10 LBS/Ac												
BAHIAGRASS	30 LBS/Ac												
SERICA LESPEDEZA	40 LBS/Ac												
BROWNTOP MILLET	10 LBS/Ac												
ATLANTIC COASTAL PANICGRASS	15 LBS/Ac PLS												
BROWNTOP MILLET	10 LBS/Ac												
SWITCHGRASS (ALAMO)	8 LBS/Ac PLS												
LITTLE BLUESTEM	4 LBS/Ac												
SERICA LESPEDEZA	20 LBS/Ac												
BROWTOP MILLET	10 LBS/Ac												
WEEPING LOVEGRASS	8 LBS/Ac												
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET	10 LBS/Ac												
BAHIAGRASS	40 LBS/Ac												
RYE, GRAIN	10 LBS/Ac												
BAHIAGRASS	40 LBS/Ac												
CLOVER, CRIMSON (ANNUAL)	5 LBS/Ac												
BROWTOP MILLET	10 LBS/Ac												
BAHIAGRASS	30 LBS/Ac												
SERICA LESPEDEZA	40 LBS/Ac												
BROWTOP MILLET	10 LBS/Ac												
BERMUDA, COMMON	10 LBS/Ac												
SERICA LESPEDEZA	40 LBS/Ac												
BROWNTOP MILLET	10 LBS/Ac												
BERMUDA, COMMON	12 LBS/Ac												
KOBE LESPEDEZA (ANNUAL)	10 LBS/Ac												
BROWNTOP MILLET	10 LBS/Ac												
BAHIAGRASS	20 LBS/Ac												
BERMUDA, COMMON	6 LBS/Ac												
SERICA LESPEDEZA	40 LBS/Ac												
BROWNTOP MILLET	10 LBS/Ac												
SWITCHGRASS	8 LBS/Ac												
LITTLE BLUESTEM	PLS												
INDIANGRASS	3 LBS/Ac PLS 3 LBS/Ac PLS												
TEMPORARY SEEDING - COASTAL													
SPECIES	LBS/Ac	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET	40 LBS/Ac												
RYE, GRAIN	56 LBS/Ac												
RYEGRASS	50 LBS/Ac												
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET OR JAPANESE MILLET	40 LBS/Ac												
RYE, GRAIN OR	56 LBS/Ac												
OATS	75												
RYEGRASS	50 LBS/Ac												

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.



DAVIS & FLOYD, INC.  
No. C00538



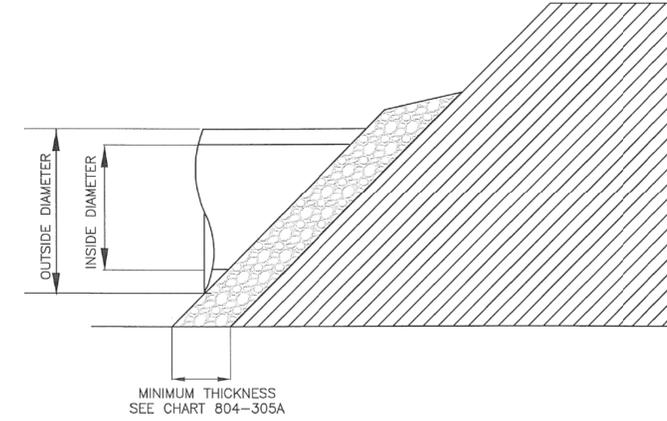
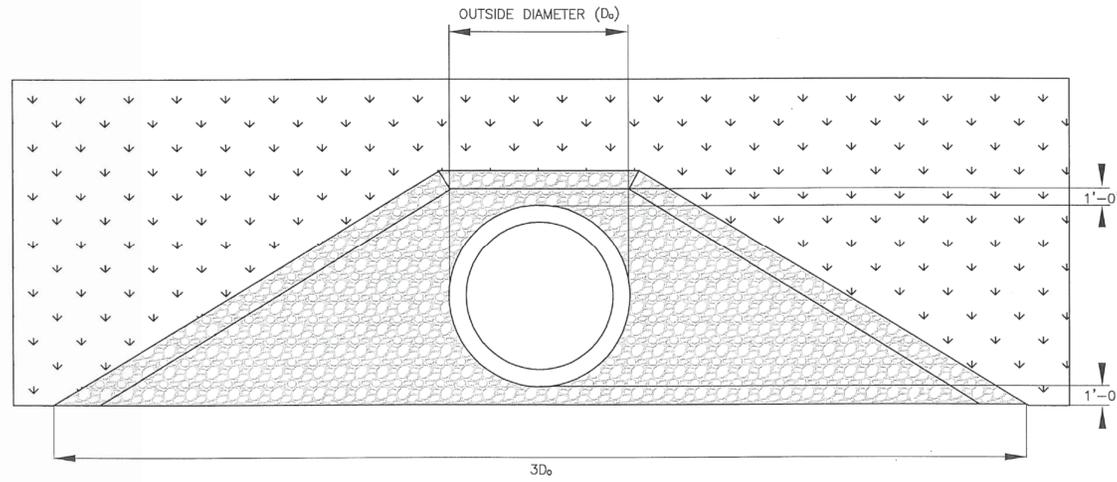
GEORGE TILLEY, INC.  
No. 20214

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SINCE 1954

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CHARLESTON, SC 29418  
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SEEDING SCHEDULE

N.T.S.

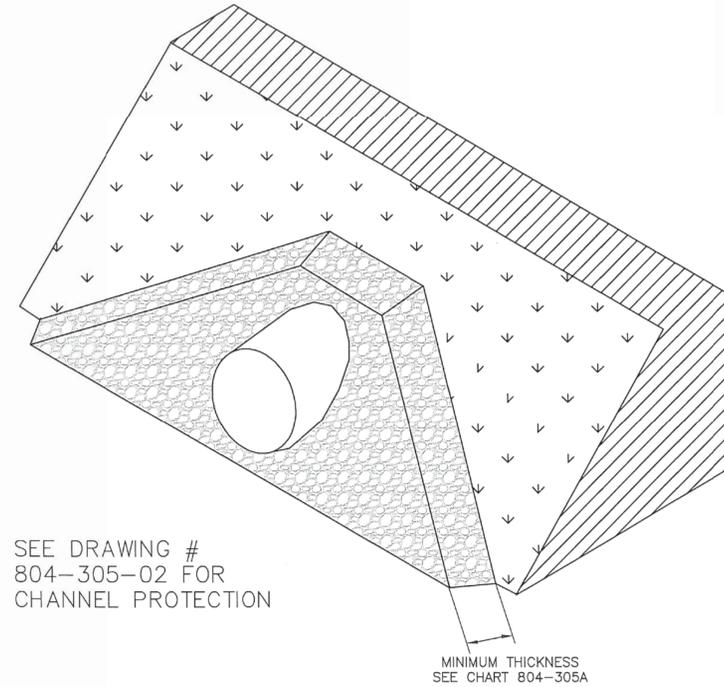


NOTES:

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CHART 804-305A  
RIPRAP PLACEMENT WITH MINIMUM TAILWATER

MINIMUM CLASS	D <sub>50</sub> (FT)	MINIMUM THICKNESS (FT)	OUTSIDE PIPE DIAMETER
A	0.50	1.00	UP TO 24"
B	0.75	1.50	UP TO 84"
C	1.30	2.60	LARGER THAN 84"



SEE DRAWING #  
804-305-02 FOR  
CHANNEL PROTECTION

MINIMUM THICKNESS  
SEE CHART 804-305A

NOTES:

- 1) DESIGN OUTLET PROTECTION IN ACCORDANCE WITH THE SCDOT WATER QUALITY MANUAL.
- 2) OUTLET PROTECTION WILL HAVE A WIDTH THREE TIMES THE OUTSIDE DIAMETER OF THE OUTLET PIPE AT TOE OF SLOPE.
- 3) ADVANCE OUTLET PROTECTION UP THE SLOPE A MINIMUM OF 1 FOOT ABOVE THE PIPE INVERT.
- 4) THE PAYMENT ITEMS MAY INCLUDE:

2031000	UNCLASSIFIED EXCAVATION	CY
8151101	TRM TYPE 1	MSY
8151102	TRM TYPE 2	MSY
8151103	TRM TYPE 3	MSY
8151104	TRM TYPE 4	MSY
8041015	RIPRAP CLASS A	CY
8041025	RIPRAP CLASS B	CY
8041035	RIPRAP CLASS C	CY
80482XX	CLASS 2 GEOTEXTILE	SY

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3/15/2018



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PIPE RIPRAP DETAIL

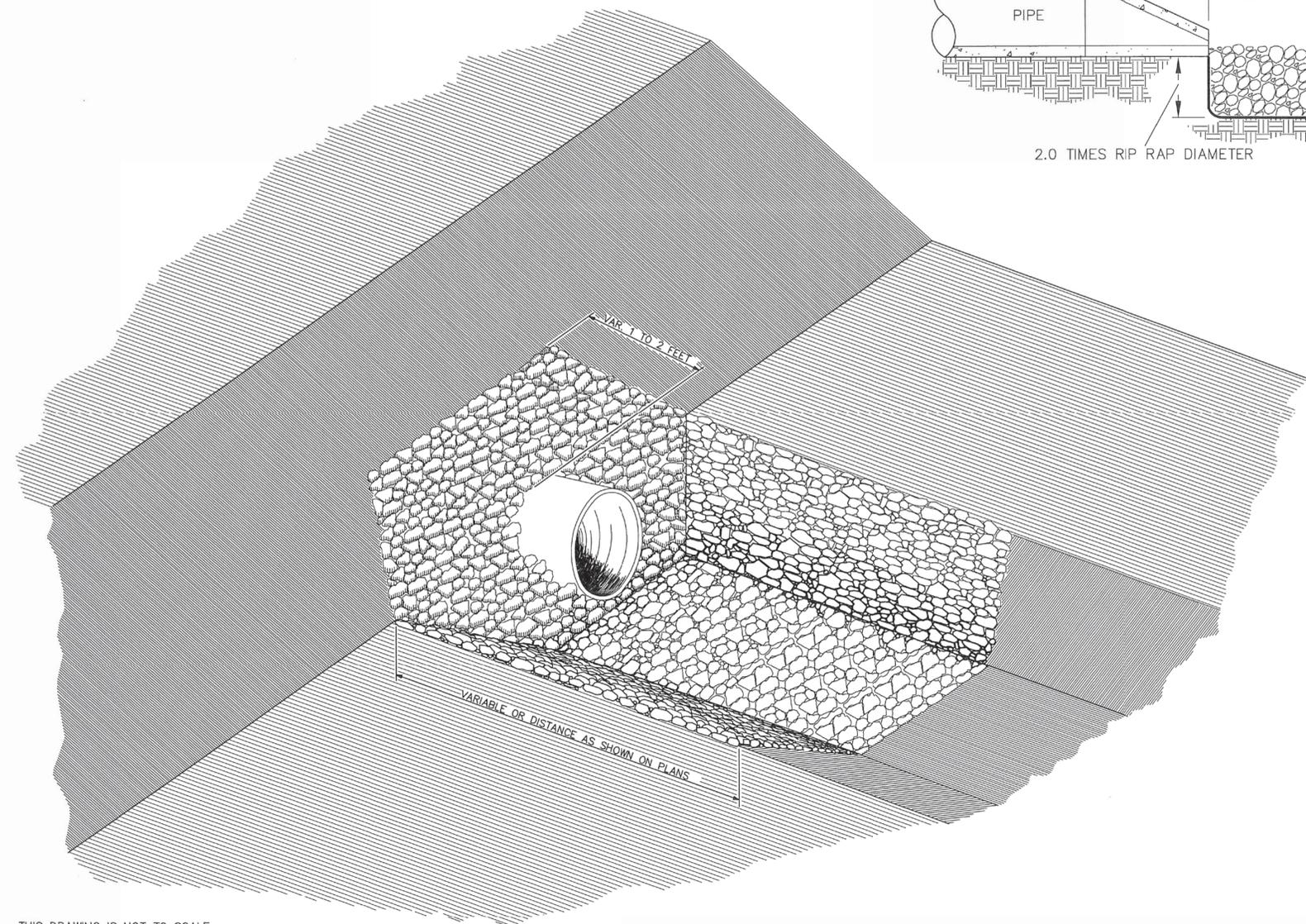
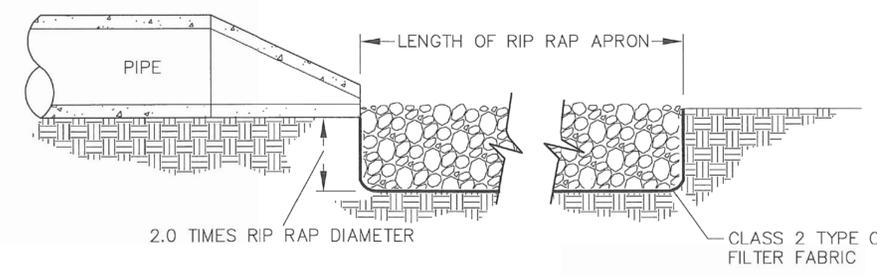
N.T.S.

- NOTES:
1. 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:  
 RIPRAP CLASS 2  
 GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP CLASS 2 TYPE C
- TON  
S.Y.

- 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.

**CHART 804-310A**  
**RIPRAP PLACEMENT WITH MINIMUM TAILWATER**

MINIMUM CLASS	D <sub>90</sub> (FT)	MINIMUM THICKNESS (FT)	PIPE DIAMETER
A	0.50	1.00	UP TO 24"
B	0.75	1.50	UP TO 84"
C	1.30	2.60	LARGER THAN 84"



THIS DRAWING IS NOT TO SCALE

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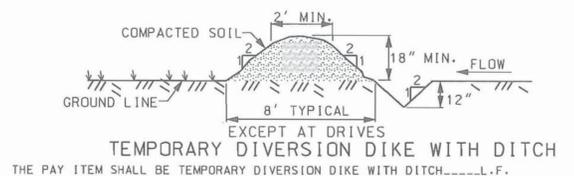


**DAVIS & FLOYD**  
SINCE 1954

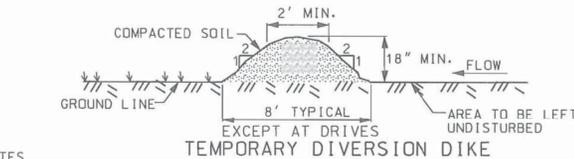
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DITCH RIPRAP DETAIL

N.T.S.



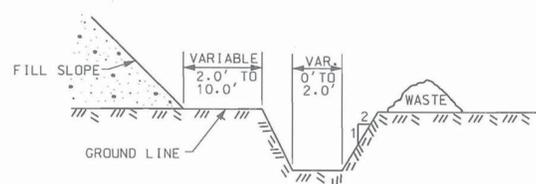
TEMPORARY DIVERSION DIKE WITH DITCH  
THE PAY ITEM SHALL BE TEMPORARY DIVERSION DIKE WITH DITCH.....L.F.



TEMPORARY DIVERSION DIKE  
EXCEPT AT DRIVES  
AREA TO BE LEFT UNDISTURBED

NOTES

1. THIS ITEM IS FOR DIVERTING CLEAN WATER AROUND A CONSTRUCTION AREA.
2. CLEAR AND GRUB ALL TREES, BRUSH, STUMPS AND OTHER OBJECTIONABLE MATERIAL.
3. ENSURE THAT THE MINIMUM CONSTRUCTED CROSS SECTION MEETS ALL DIMENSIONS SHOWN.
4. IMMEDIATELY AFTER CONSTRUCTION ESTABLISH VEGETATION, PLACING TEMPORARY EROSION CONTROL BLANKET ON THE DIKE. (AS APPLICABLE).
5. PAYMENT FOR TEMPORARY DIVERSION DIKE INCLUDES ALL MATERIALS IN PLACE, REMOVAL AND DISPOSAL OF MATERIALS AND RESHAPING DIKE TO DRAIN. SEEDING TO BE PAID FOR SEPARATELY.
6. THE PAY ITEM SHALL BE: TEMPORARY DIVERSION DIKE.....L.F.

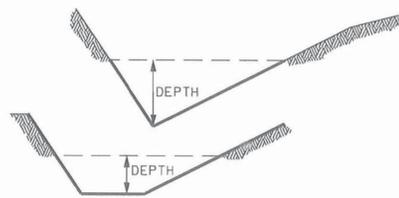


TEMPORARY SILT DITCH

NOTES

1. THIS ITEM IS TO MOVE SEDIMENT LADEN WATER FROM A CONSTRUCTION SITE TO A SEDIMENT CONTROL STRUCTURE.
2. SEED DITCH AND WASTE AREA WITH TEMPORARY SEEDING IMMEDIATELY AFTER CONSTRUCTION.
3. IMMEDIATELY AFTER CONSTRUCTION ESTABLISH VEGETATION, PLACING TEMPORARY EROSION CONTROL BLANKET ON THE DITCH (AS APPLICABLE).
4. THE PAY ITEM SHALL BE: SILT DITCHES.....C.Y.

ROLLED EROSION CONTROL PRODUCT



NOTES

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 FOR ROLLED EROSION CONTROL PRODUCT.
4. PAY ITEMS:  
TEMPORARY EROSION CONTROL BLANKET .....SY  
PERMANENT TURF REINFORCEMENT MAT.....SY

THIS DRAWING IS NOT TO SCALE

SILT FENCE

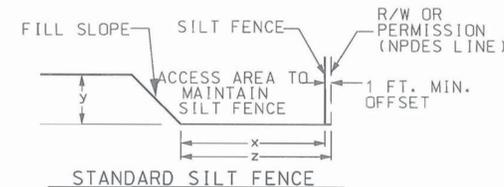
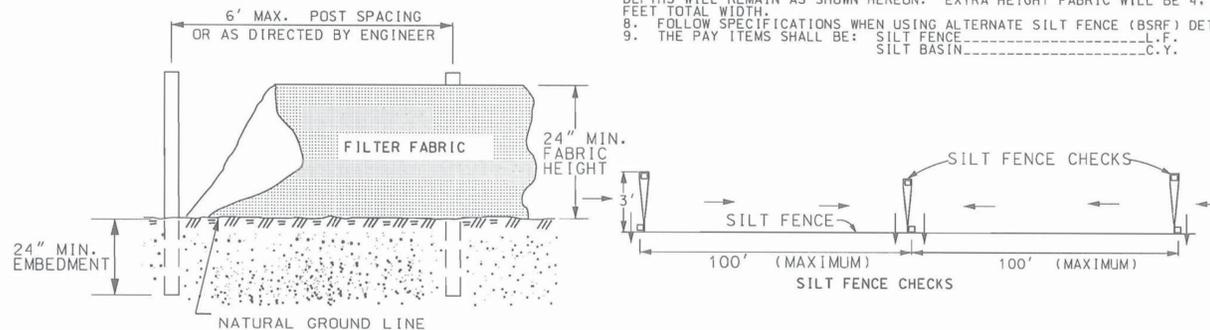
HEIGHT OF FILL (y) IN FEET	FILL SLOPE	MINIMUM SILT FENCE OFFSET FROM TOE OF SLOPE (x) IN FEET	MINIMUM RIGHT OF WAY OFFSET FROM TOE OF SLOPE (NPDES LINE) (z) IN FEET	CHECK LENGTH IN FEET**
<6	2:1	2	3	2
	4:1			
	6:1			
6-10	2:1	12*	13*	5
	4:1	3	4	3
	6:1			
>10	2:1	12*	13*	5
	4:1	4	5	4

\*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.

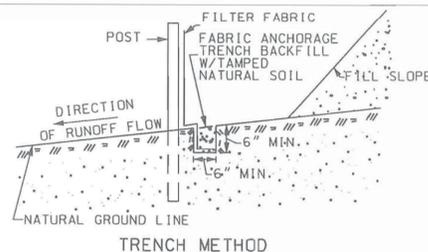
\*\*SILT FENCE CHECKS WILL HAVE A MAXIMUM LENGTH OF FIVE (5) FEET OR UNTIL THEY TIE BACK INTO THE SLOPE.

NOTES

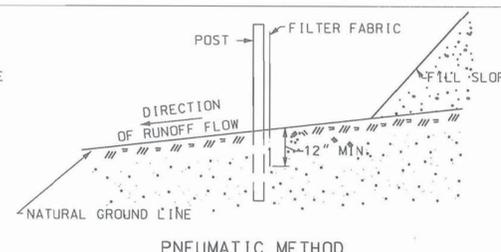
1. SILT FENCE CHECKS MUST BE LOCATED EVERY 100 FT. MAXIMUM AND AT LOW POINTS. FILTER FABRICS SHALL CONFORM TO SCODOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).
2. USE POSTS CONFORMING TO SCODOT STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS. POSTS SHALL BE A MINIMUM OF 5 FEET 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.
3. 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.
5. IN ALL CASES, TIES SHOULD BE AFFIXED IN NO LESS THAN 4 PLACES.
6. SILT SHALL BE REMOVED AND DISPOSED OF WHEN SILT ACCUMULATES TO 1/3 THE HEIGHT OF THE FENCE. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON-SITE. MAINTENANCE OF SILT FENCE WILL BE MEASURED AND PAID FOR BY THE ITEM OF SILT BASIN.
7. 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.
8. IN TIDAL AREAS, EXTRA SILT FENCE HEIGHT MAY BE REQUIRED. THE LENGTH OF POST WILL BE TWICE THE EXPOSED POST HEIGHT. POST SPACING AND BURIED DEPTHS WILL REMAIN AS SHOWN HEREON. EXTRA HEIGHT FABRIC WILL BE 4, 5 OR 6 FEET TOTAL WIDTH.
9. FOLLOW SPECIFICATIONS WHEN USING ALTERNATE SILT FENCE (BSRF) DETAILS.
10. THE PAY ITEMS SHALL BE: SILT FENCE.....L.F.  
SILT BASIN.....C.Y.



STANDARD SILT FENCE

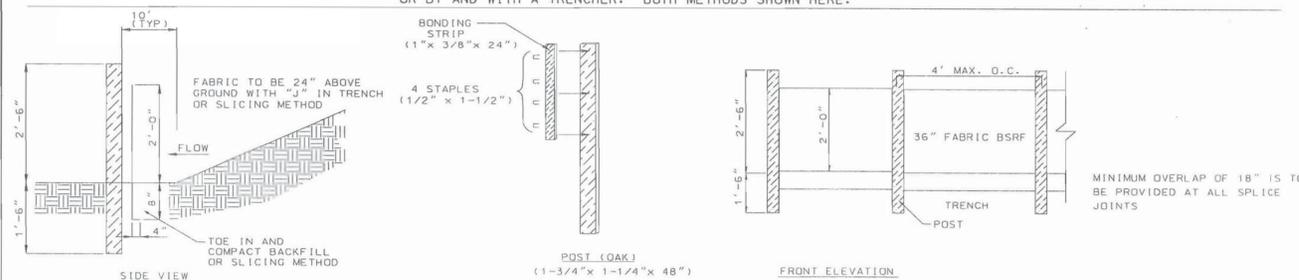


TRENCH METHOD



PNEUMATIC METHOD

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

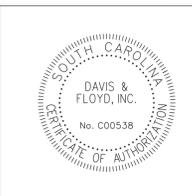


ALTERNATE SILT FENCE - BELTED SILT RETENTION FENCE (BSRF)

NOTES:

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3/15/2018

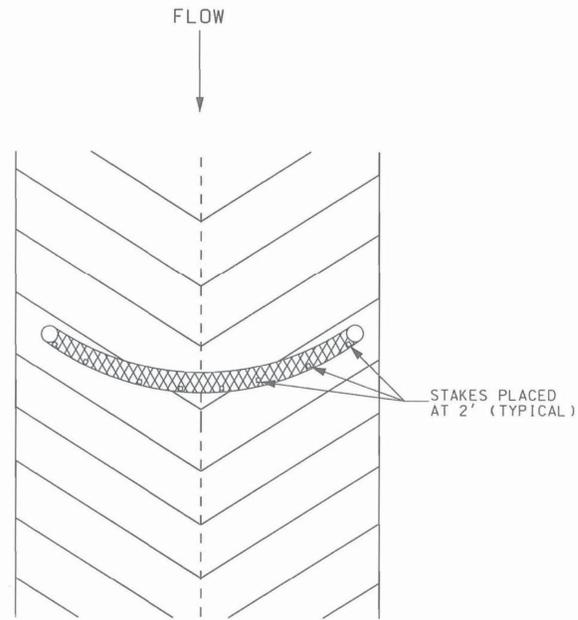


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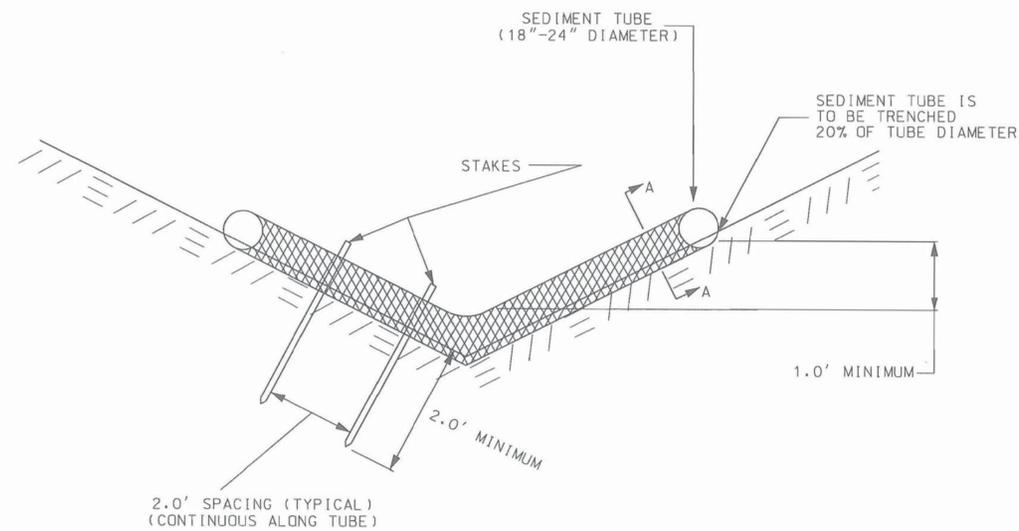
3220 W. MONTAGUE AVENUE  
CHARLESTON, SC 29418  
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EROSION CONTROL DETAIL

N.T.S.



TOP VIEW OF DITCH



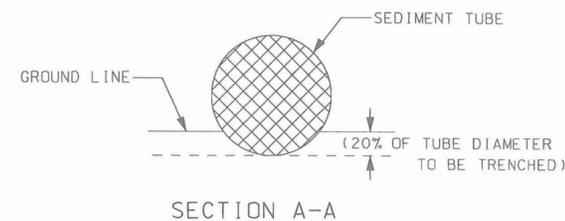
END VIEW OF DITCH

NOTES:

1. SEDIMENT TUBE SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 815 OF THE SCODT STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION (LATEST EDITION), AND MUST BE LISTED ON SCODT 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 2" X 2" AND A MAXIMUM MEASURED DIMENSION OF 2" X 2", OR USING STEEL POSTS (1.25 INCH DIA) A MINIMUM OF 4' IN LENGTH. USE STEEL POSTS WITHOUT A KICK PLATE AND PAINTING IS NOT REQUIRED. SPACE POSTS OR STAKES ON 2' CENTERS AND DRIVE THEM INTO THE GROUND TO A DEPTH OF 2' OR TO THE MAXIMUM EXTENT PRACTICABLE. INSTALL THE STAKES ON THE DOWNSTREAM THIRD OF THE SEDIMENT TUBE. SEDIMENT TUBES FOR DITCH CHECKS WEIGHING MOR THEN 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 SILT BASIN IN C.Y.
  12. PAYMENT SHALL INCLUDE ALL MATERIALS, LABOR, TOOLS, EQUIPMENT, MAINTENANCE, AND INCIDENTALS NECESSARY TO COMPLETE WORK.
  13. PAY ITEM SHALL BE:  
SEDIMENT TUBE ..... LF

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.



SCALE: 5.000 ft / in.  
 PEN TABLE: 11-17RW.tbl  
 PLOT DRIVER: pscript.plt  
 FILE: G:\Jobs\seven\31742-09\Production\Transportation\c.dgn\Const\plbr\D7.dgn  
 3/15/2018



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**DAVIS & FLOYD**  
SINCE 1954

SEDIMENT TUBE DETAIL

N.T.S.