



South Carolina
Department of Transportation

June 4, 2013

INSTRUCTIONAL BULLETIN NO. 2013-2

SUBJECT: Landscaping Pay Items
EFFECTIVE DATE: June 2013 Letting
SUPERSEDES: None
RE: Highway Design Manual

A new pay item has been created for landscaping items. Utilize the new pay item number beginning with the June 2013 letting on design plans that include landscaping.

Landscaping Plan Sheets

Provide and list numbered landscaping items and quantities on the landscaping plan sheets. Do not show landscaping items on the Summary of Estimated Quantity sheet. Enter the items and quantities into WebTransport using the new pay item for each item listed on the landscaping plans. Each pay item requires a supplemental description and matches the numbering system shown on the landscaping summary contained within the plans.

- Include a summary of all landscaping items on the last sheet of the landscaping plans. List and number all items on the plans and enter into WebTransport.
- If multiple projects containing Landscaping are let together, then the list of landscaping items on the summary sheets are numbered consecutively to insure that no two landscaping items have the same item number within the supplemental description in WebTransport. (See attachment A for example)
- Include a breakdown of the quantities that are needed for the stations or areas of the project on the additional landscaping plans. Do not include the landscaping item number on the additional sheets. (See attachment B for example)

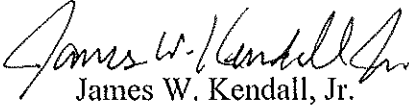


New Pay Items:

8110003 LANDSCAPING ITEM NO. (XX) EA

Obsolete Pay Items:

8110000	LANDSCAPING ITEM NO	LS
8110001	LANDSCAPING	LS



James W. Kendall, Jr.
Preconstruction Support Engineer

JWK:bhl

Attachments

cc:

Mitchell Metts, Director of Preconstruction
Leland Colvin, Director of Construction
Tony Sheppard, Director of Traffic Engineering
Brian Keys, Asst. Chief Engineer for P, L, & D

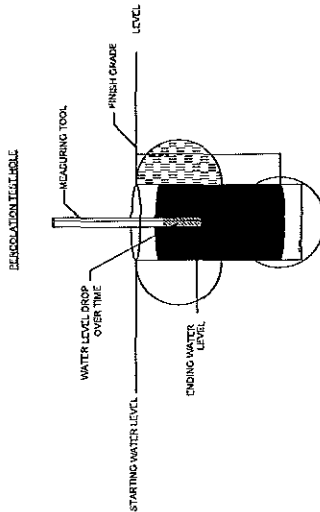
Matt Lifsey, RP Engineer – Lowcountry
Mike Barbee, RP Engineer – Pee Dee
Randall Young, RP Engineer - Midlands
Tony Fallaw, RP Engineer - Upstate

LANDSCAPING PLAN LEGEND - KERFOOT ROAD

ITEM #	SYMBOL	BOTANICAL/COMMON NAME	SIZE	BULDCONT.	COMMENTS	QTY.
001	LASH	LAGERSTROEMIA X WATCHEZ WATCHEZ CHAPEL WATTLE	3/4" SPREAD 2'10" HEIGHT	B & B	NO MORE THAN 2 TRUNKS PER TREE. THINNING, WATCHING, PRUNING, TO DO THROUGHOUT LIFE SPAN TO MAINTAIN PROPER FORM AND TO MAINTAIN TRAVEL LANE.	17
002	LAST	LAGERSTROEMIA X TUSCARORA TUSCARORA GRAPE WATTLE	3/4" SPREAD 2'10" HEIGHT	# 1/2 CONT. OR 1/4 B	NO MORE THAN 2 TRUNKS PER TREE. THINNING, WATCHING, PRUNING, TO DO THROUGHOUT LIFE SPAN TO MAINTAIN PROPER FORM AND TO MAINTAIN TRAVEL LANE.	23
003	QUEY	QUERCUS VIRGINIANA BELA CATHOICAL LINC OAK	3/4" SPREAD 12'10" HEIGHT	B & B	100' O.C. 0' FOOT CLEAR TRUNK WITH MINIMUM SPACING 20' MINIMUM SETBACK FROM EDGE OF TRAVEL LANE.	10
004	ILNS	ILEX X ILLIC R. STEVENS NELLIE STEVENS HOLLY	18" HEIGHT	# 1/2 CONT. OR 1/4 B	MATCHING SPACING, 15' O.C. FULL TO ORIGINAL, ADJUST TO AVOID DITCH	18
005	ILED	ILEX CORNUTA BURFORDI BURFORD CHINSE HOLLY	6" HEIGHT	# 1/2 CONT. OR # 1/4 CONT.	8' O.C. 40' MINIMUM SETBACK FROM EDGE OF TRAVEL LANE	37
006	SPBI	SPARTINA BAKER SAND CORGRASS		#3 CONT.	2' O.C. ADJUST TO AVOID DITCH	3460
007	MUHC	MULBERGIA CAPILLARIS PINK MULRY GRASS	N.A.	#3 CONT.	3' O.C. PLANT IN SITS, ADJUST TO AVOID DITCH	3416
008	LEBI	LEIPDOR SUPER BLUE MATRINUS DELUZE		#1 CONT.	8' O.C.	1021
009	LOLK	LOUNARIA UNIBEROLA MATRINUS MAY RUSH		#1 CONT.	SPACING 2' O.C. ADJUST TO AVOID POINT OF DITCH	2312

INSTRUMENTS FOR PERFORMING A PERCOLATION TEST

1. WITH A SHOVEL OR POST-HOLE DIGGER, DIG A HOLE 18" TO 24" DEEP. HOLE DIAMETER SHOULD BE A MINIMUM OF 4" (INCHES). THE DIAMETER OF THE HOLE SHOULD BE UNIFORM FROM TOP TO BOTTOM WITH THE BOTTOM BEING FLAT.
2. FILL HOLE WITH WATER TO THE TOP AND LET STAND FOR 1 HOUR (MIN) TO PREWET SOIL.
3. REFILL HOLE TO WITHIN 2" FROM TOP. DO NOT OVERFILL HOLE.
4. TO AID IN MEASUREMENT, PLACE A STRIP ACROSS THE TOP OF THE HOLE AND USE A RULER OR MEASURING TAPE TO MARK THE PERIODIC DROPS IN WATER LEVEL.
5. ALLOW THE HOLE TO DRAIN FOR AT LEAST ONE HOUR. A LONGER PERIOD OF TIME (2 TO 3) HOURS WILL GIVE A MORE ACCURATE READING OF AVERAGE PERCOLATION.
6. DETERMINE AVERAGE DROP IN WATER LEVEL PER HOUR AND REFER TO THE TABLE BELOW TO INTERPRET RESULTS.



HOW TO INTERPRET RESULTS	
IF WATER LEVEL IN HOLE DROPS...	SITE IS...
LESS THAN ONE-HALF INCH PER HOUR	POORLY DRAINAGE AND SUITED TO WET-SITE SPECIES
ONE-HALF INCH TO ONE INCH PER HOUR	MODERATELY WELL DRAINAGE AND SUITED TO MANY SPECIES INCLUDING WET-SITE SPECIES
MORE THAN ONE INCH PER HOUR	WELL DRAINAGE AND SUITABLE FOR ALL SPECIES INCLUDING SENSITIVE SPECIES

PERCOLATION TEST

4				
3				
2				
1				
0.5				
0.25				
0.125				
0.0625				

SCALE 1"=50'

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
ROAD DESIGN
COLUMBIA, S.C.

MISCELLANEOUS DETAILS

DATE _____
BY _____
SCALE 1"=50'
DRAWN BY _____
CHECKED BY _____
DATE _____
BY _____
DATE _____
BY _____
DATE _____
BY _____

NET TO SCALE

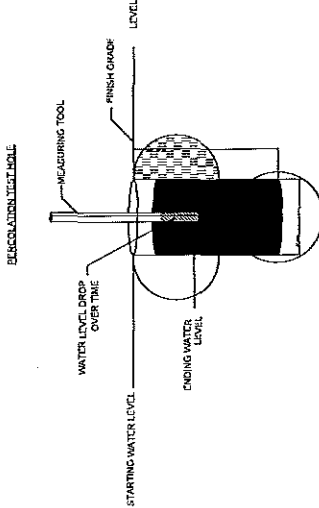
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LANDSCAPING PLAN LEGEND - AVALON AVE.

ITEM #	SYMBOL	BOTANICAL COMMON NAME	SIZE	BALL COUNT	COMMENTS	QTY.
010	LAMB	LAGERSTROEMIA X MUSKOGEE	2 1/2" SPREAD 20" HIGH	PLG CONT OR 100	NO MORE THAN 30 TREES/PLANTS TO BE PLANTED BETWEEN CURB APPROX. 20' AWAY FROM CURB. 45 MINUTE SETBACK FROM EDGE OF TRAVEL LANE.	14
		MUSKOGEE GRAPE MYRTLE				
011	LAST	LAGERSTROEMIA X TUSCARORA	2 1/2" SPREAD 20" HIGH	PLG CONT OR 100	NO MORE THAN 30 TREES/PLANTS TO BE PLANTED BETWEEN CURB APPROX. 20' AWAY FROM CURB. 45 MINUTE SETBACK FROM EDGE OF TRAVEL LANE.	10
		TUSCARORA GRAPE MYRTLE				
012	GORG	GORG CANADENSIS	1 1/2" CALIPER	PLG CONT OR 100	NO TREES/PLANTS TO BE PLANTED IN FIELD. 5' SETBACK FROM EDGE OF TRAVEL LANE.	125
		CAUTION REDWOOD TREE				
013	AZAF	AZALEA INDICA FORMOSA	2" MIN. HEIGHT	PLG CONT	EVERY 7' AS DIRECTED IN FIELD	500
		FORMOSA AZALEA				

INSTRUCTIONS FOR PERFORMING A PERCOLATION TEST

1. WITH A SHOVEL OR POST-HOLE DIGGER, DIG A HOLE UP TO 24" DEEP. HOLE DIAMETER SHOULD BE A MINIMUM OF 4" INCHES. THE DIAMETER OF THE HOLE SHOULD BE UNIFORM FROM TOP TO BOTTOM WITH THE BOTTOM BEING FLAT.
2. FILL HOLE WITH WATER TO THE TOP AND LET STAND FOR 1 HOUR (MIN) TO PRE-WET SOIL.
3. REFILL HOLE TO WITHIN 2" OF FROM TOP. DO NOT OVERFLOW HOLE.
4. TO AID IN MEASUREMENT, PLACE A STICK ACROSS THE TOP OF THE HOLE AND USE A RULER OR MEASURING TAPE TO MARK THE PERIODIC DROPS IN WATER LEVEL.
5. ALLOW THE HOLE TO DRAIN FOR AT LEAST ONE HOUR. A LONGER PERIOD OF TIME (2 TO 3) HOURS WILL GIVE A MORE ACCURATE READING OF AVERAGE PERCOLATION.
6. DETERMINE AVERAGE DROP IN WATER LEVEL PER HOUR AND REFER TO THE TABLE BELOW TO INTERPRET RESULTS.



HOW TO INTERPRET RESULTS	
IF WATER LEVEL IN HOLE DROPS...	SITE IS...
LESS THAN ONE-HALF INCH PER HOUR	POSSIBLY DRAINED AND SUITED TO WET-SITE SPECIES
ONE-HALF INCH TO ONE INCH PER HOUR	MODERATELY WELL DRAINED AND SUITED TO MANY SPECIES INCLUDING WET-SITE SPECIES
MORE THAN ONE INCH PER HOUR	WELL DRAINED AND SUITABLE FOR ALL SPECIES INCLUDING SENSITIVE SPECIES

PERCOLATION TEST

1				
2				
3				
4				

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
ROAD DESIGN
COLUMBIA, S.C.

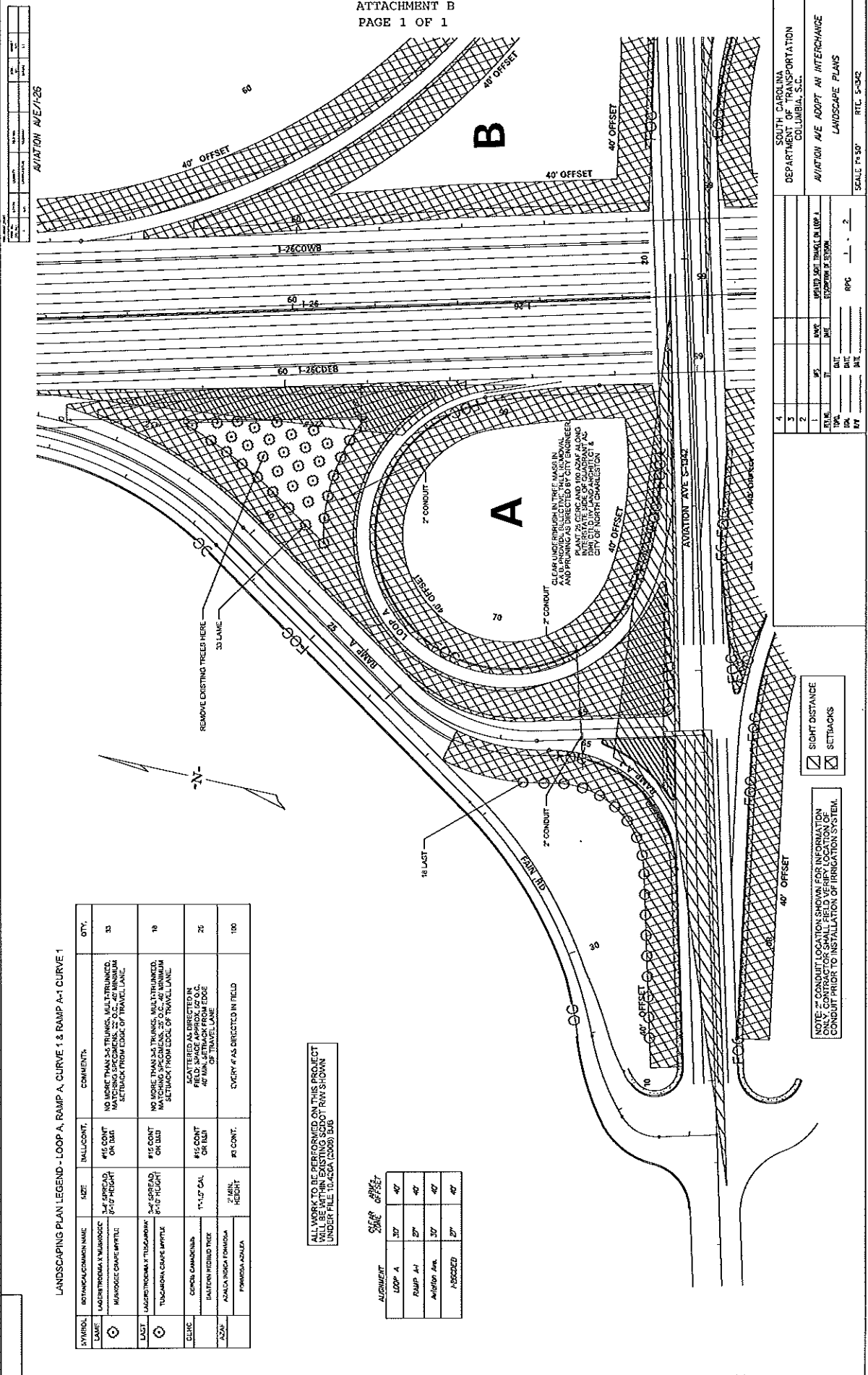
MISCELLANEOUS DETAILS

SCALE: P&S
DATE: _____
BY: _____
CHECKED BY: _____
GROUP: _____

NOT TO SCALE

DWG. NO. _____
RTE. _____

AVIATION AVE/1-25



LANDSCAPING PLAN LEGEND - LOOP A, RAMP A, CURVE 1 & RAMP A-1 CURVE 1

SYMBOL	BOTANICAL COMMON NAME	SIZE	BALLOONET	COMMENTS	QTY.
⊙	LAGERSTRÖMIA & NEUBERGII MUSKOGEE GRAPE HYPHILE	3/4" SPREAD 5/16" HEIGHT	#12 CONT ON 10'	NO MORE THAN 24 TRUNKS, MULTI TRUNKED. MATCH EXISTING PLANTING. PLANTING ATTACHED FROM EDGE OF TRAVEL LANE.	33
⊙	LAGERSTRÖMIA & NEUBERGII TUSCANYA GRAPE HYPHILE	3/4" SPREAD 5/16" HEIGHT	#12 CONT ON 10'	NO MORE THAN 24 TRUNKS, MULTI TRUNKED. MATCH EXISTING PLANTING. PLANTING ATTACHED FROM EDGE OF TRAVEL LANE.	18
⊙	COPIA CAMARINA BARTON HINDLE TREE	11" L ² CAL	#12 CONT ON 10'	SCATTERED AS DIRECTED IN FIELD SPACE APPROX 12' O.C. 40' MIN. OF TRAVEL LANE	25
⊙	AZALEA INDICA FLOREDA POMERANJA ADELINA	1" MIN. HEIGHT	#3 CONT.	EVERY 4' AS DIRECTED IN FIELD	100

ALL WORK TO BE PERFORMED ON THIS PROJECT UNDER FILE 16-524 (2008) 348.

ALIGNMENT	SCALE	OFFSET
LOOP A	30'	40'
RAMP A-1	20'	40'
AVIATION AVE	30'	40'
PERCECCE	20'	40'

SIGHT DISTANCE
 SETBACKS

NOTE: 2" CONDUIT LOCATION SHOWN FOR INFORMATION ONLY. CONTRACTORS SHALL FIELD VERIFY LOCATION OF CONDUIT PRIOR TO INSTALLATION OF IRRIGATION SYSTEM.

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.
AVIATION AVE ADAPT AN INTERCHANGE
LANDSCAPE PLANS
SCALE: 1" = 20'

REV.	DATE	BY	CHK.	DESCRIPTION OF CHANGE
1				
2				
3				
4				

80439783
16-524 (2008) 348