ELEMENT: 2017CPT.01.27.10701.1, ETC

WBS ELEM

NO.: DA00358

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

STATE	STATE PROJECT		NO.				
N.C. 2017CPT.01.27.10701.1, ETC							
STAT	B PROJ. NO.	P. A. PROJ. NO.		DESCRIPT	ION		
2017CF	T.01.27.10701.1			MAP	1		
2017CF	T.01.27.10701.1			MAP :	2		
2017CF	T.01.27.10701.1			MAP	3		

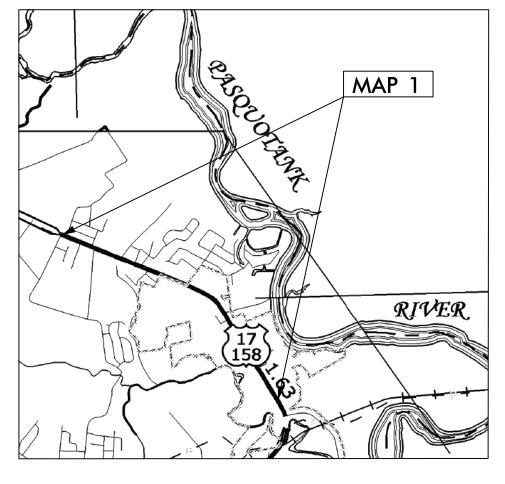
PASQUOTANK COUNTY

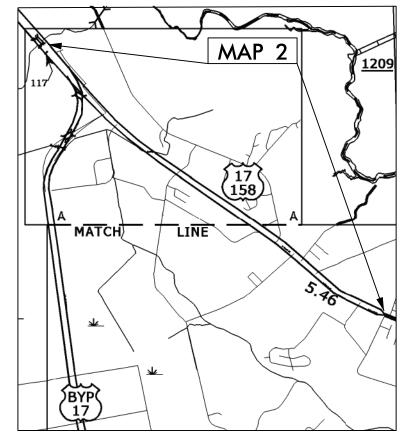
LOCATION: MAP 1 US 17 (ROAD ST) C&G FROM KNOBBS CREEK DR TO CREEK RD

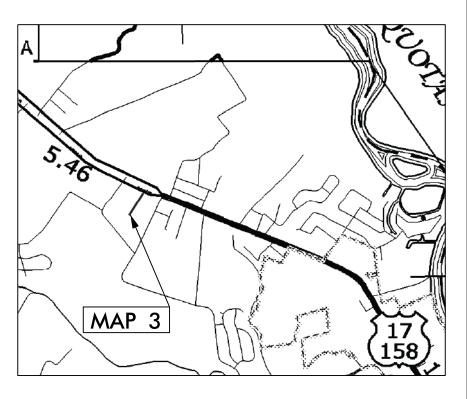
MAP 2 US 17/US 158 FROM CREEK RD TO US 17 BYPASS

MAP 3 MAINTENANCE PARKING AND ACCESS RD FROM US 17 TO FENCE

TYPE OF WORK: RESURFACING, MILLING, PAVEMENT MARKINGS & SHOULDER RECONSTRUCTION







NTS

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT MAP 1 = 2.60 MI.

LENGTH OF ROADWAY PROJECT MAP 2 = 4.63 MI.

LENGTH OF ROADWAY PROJECT MAP 3 = 0.25 MI.

Prepared in the Office of:

DIVISION OF HIGHWAYS

113 Airport Dr., Edenton NC, 27932

2012 STANDARD SPECIFICATIONS

LETTING DATE:

W.B. HOBBS, P.E.

DIVISION PROJECT MANAGER

C.E. SLACHTA

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA



PROJECT REFERENCE NO.	SHEET NO.
2017CPT 01 27 10701 1 FTC	

CONTRACT PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.
Т	EARTH MATERIAL
V1	MILLING BITUMINOUS PAVEMENT 1½" DEPTH

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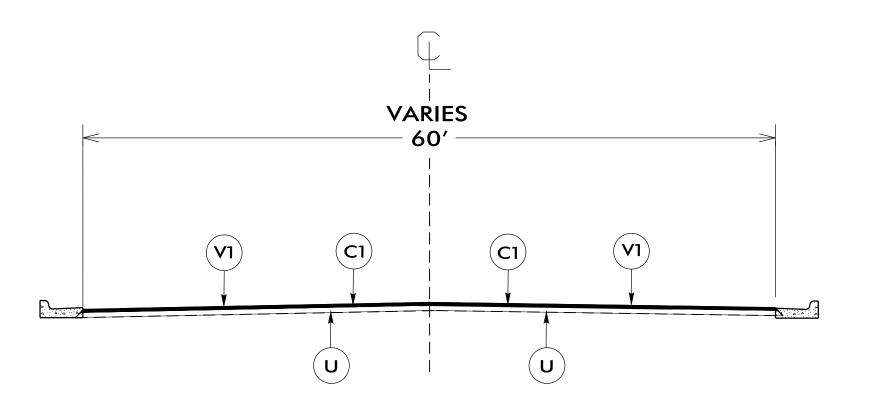
PROJECT REFERENCE NO.	SHEET NO.
2017CPT.01.27.10701.1, ETC.	

C1	PROP. APPROX. $1 lac{1}{2}"$ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.
V1	MILLING BITUMINOUS PAVEMENT 1½" DEPTH

NOTES:

*ALL PAVED ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER

*EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES



TYPICAL SECTION NO. 1

USE WITH MAP 1

rictStore\Paving Maps\2017\Pasquotank\DA00358 AT DIVI-300030

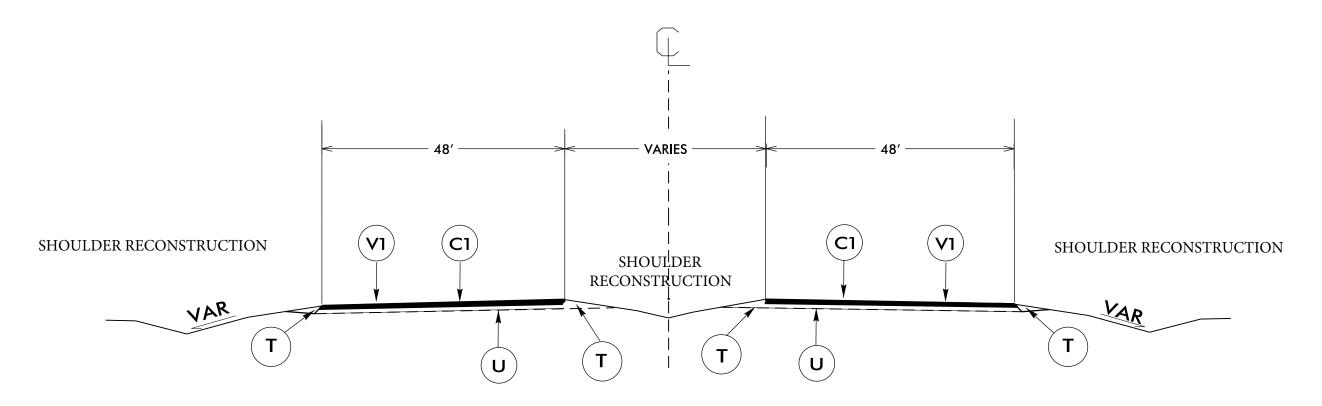
		PAVEMENT SCHEDULE
С	:1	PROP. APPROX. 1½″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
ι	J	EXISTING PAVEMENT.
7	Γ	EARTH MATERIAL
V	1	MILLING BITUMINOUS PAVEMENT 1½" DEPTH

PROJECT REFERENCE NO.		SHEET NO.
2017CPT.01.27.10701.1, ET	Ŋ	

NOTES:

*ALL PAVED ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER

*EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES



TYPICAL SECTION NO. 2

USE WITH MAP 2

Ρ	Α	٧	Ε	M	Ε	N	Т	S	С	Н	Ε	D	U	L	Ε

PROJECT REFERENCE NO.	SHEET NO.			
2017CPT.01.27.10701.1.ETC.				

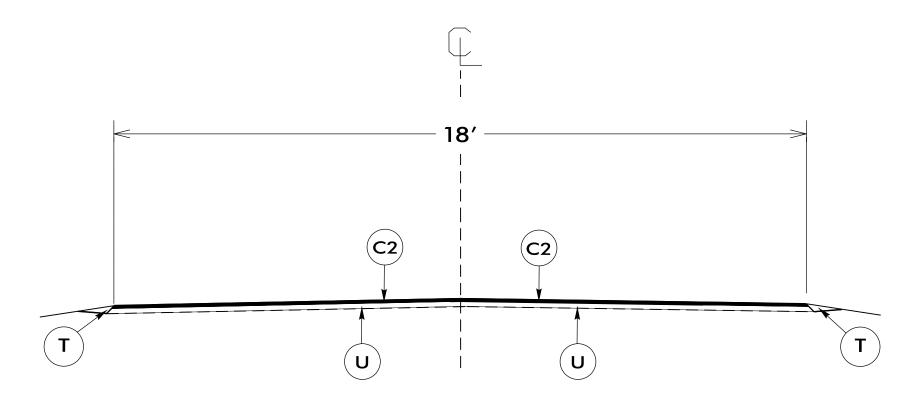
C2	PROP. APPROX. $1lash2"$ ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.
Т	EARTH MATERIAL

NOTES:

*ALL PAVED ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER

*EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES

*SHOULDER RECONSTRUCTION TO BE PERFORMED BY OTHERS

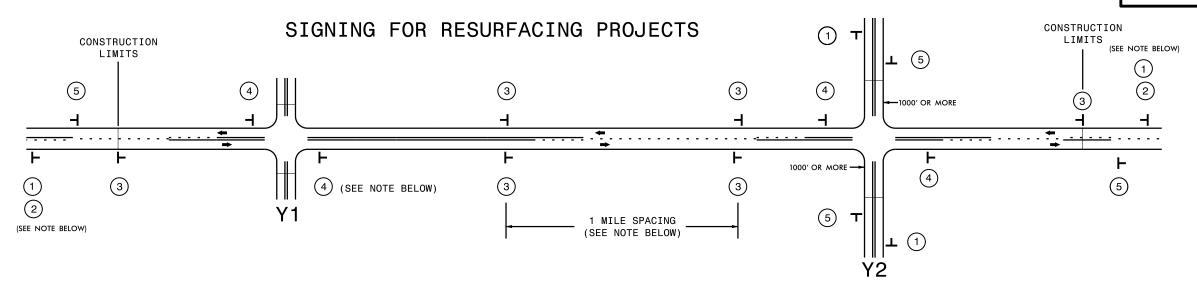


TYPICAL SECTION NO. 3

USE WITH MAP 3

trictStore\Paving Maps\2017\Pasquotank\DA00358 n AT DIVI-3000730

PROJ. REFERENCE NO. SHEET NO. 2017CPT.01.27.10701.1, ETC



LEGEND

├ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ROAD ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE. FES AND DIRECTION WORK AHEAD, 48" X 48" #2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS) PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART LOW/SOFT THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE NOT SHOULDER CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER. PER SIGNING PLACEMENT F THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM ROAD EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT 4 UNDER ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL CONST WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT SP 13106 48" X 48" INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN. PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS. ROAD WORK G20-2 A

NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

- 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE
- 2) SUBDIVISION ROADS
- 3) DEAD END ROADS

WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE

-Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.





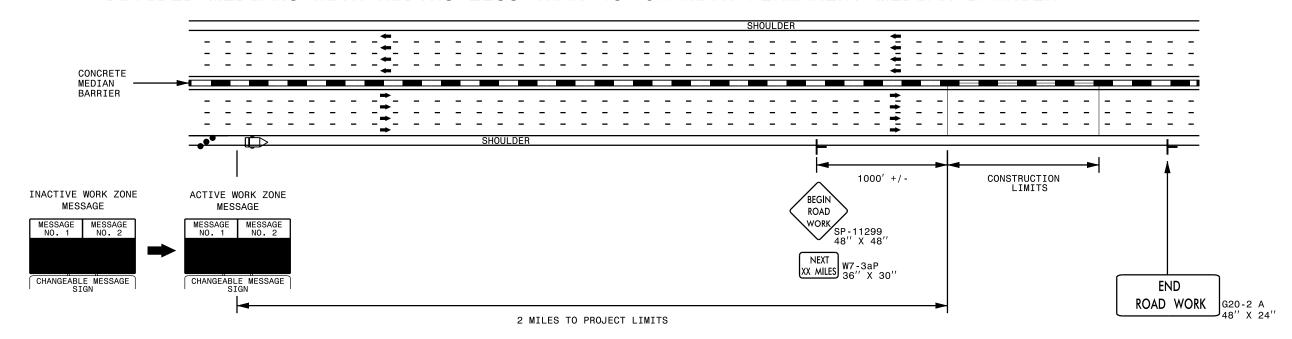
PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER



RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS

-Store\Paving Maps\Signing\Resurfacing_AdvWarn_2Ln.dg | AT DIVI-300030

DIVIDED MEDIANS WITH WIDTHS LESS THAN 46' OR WITH PERMANENT MEDIAN BARRIER



NOTES:

- 1) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 6' AS MEASURED FROM THE EDGE OF PAVEMENT.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
- 3) FOR MEDIAN WIDTHS LESS THAN 46' (MEASURED EDGELINE TO EDGELINE) USE THE BOTTOM DRAWING.
- 4) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 5) INSTALL "ROAD WORK AHEAD" (W20-1) ALONG ENTRANCE RAMPS 500' PRIOR TO RAMP TERMINAL, AND "END ROAD WORK" (G20-2a) AT THE END OF EXIT RAMPS WITHIN THE WORK ZONE.

TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

6) IF MILLED AREAS ARE NOT PAVED BACK BY THE END OF THE WORK DAY, PORTABLE SIGNS SHALL BE USED TO WARN DRIVERS OF THE PRESENT CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO "ROUGH ROAD" W8-8, "UNEVEN LANES" W8-11, "GROOVED PAVEMENT" W8-15 w/MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER AND WITH DIVIDED MEDIANS OF 46' OR GREATER. THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE



RESURFACING ADVANCE WARNING SIGNS FOR HIGH SPEED FACILITIES ≥ 60 MPH

LEGEND

CHANGEABLE MESSAGE SIGN (CMS)

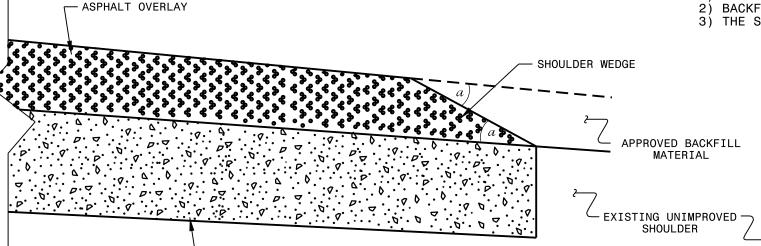
STATIONARY SIGN

TRAFFIC DRUM

DIRECTION_OF_TRAFFIC

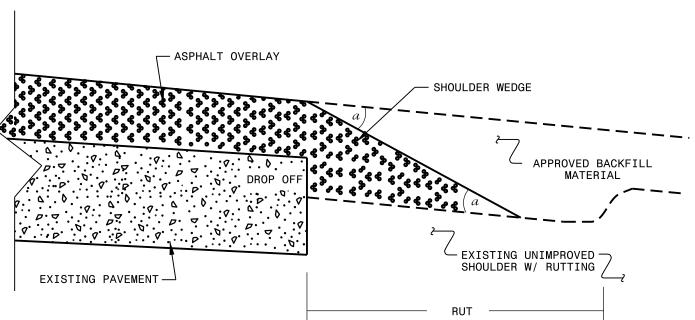
NOTES

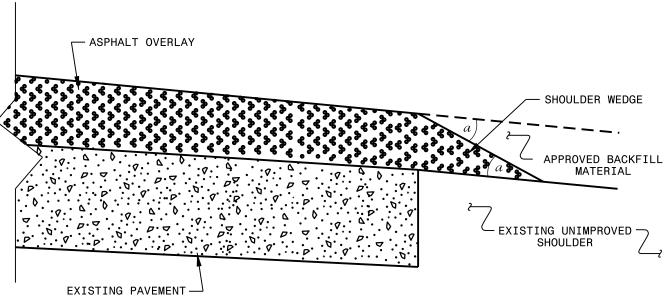
- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ Widening or with Existing Paved Shoulder having no dropoffs)





SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ NO Widening)

- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

SHOULDER WEDGE DETAILS

ORIGINAL BY	T. SPELL	DATE:	7-19-11		
MODIFIED BY		DATE	10/16/12		
CHECKED BY:		DATE:			
FILE SPEC.:	s:usr/details/stand/shoulderwedgedetail.dgn				

SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

PROPOSED PAVEMENT

PROJECT NO.	SHEET NO.	TOTAL NO.
017CPT.01.27.10701.1		

SUMMARY OF QUANTITIES

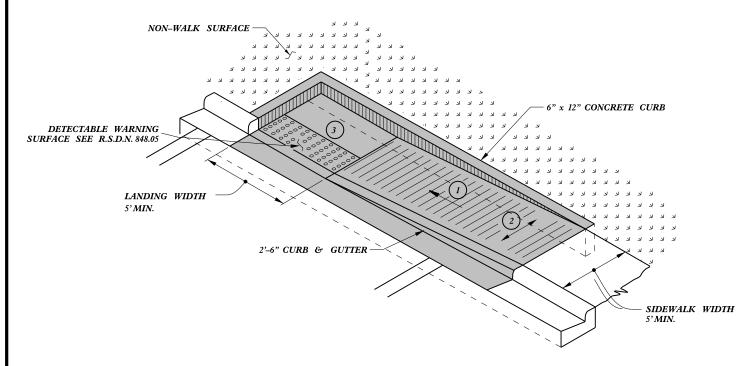
	PROJECT	COUNTY	MAP ROUTE	DESCRIPTION	TYP LANES LAN	E FINAL	WARM MIX	LENGTH	WIDTH	MOBILIZATION	BORROW	FOUNDATION	FOUNDATION	15" RC PIPE	24" RC PIPE	INCIDENTAL	SHOULDER	1%"	URFACE	SURFACE ASPHALT	AC PLANT	PIPE	MASONRY	FRAME WITH	2'-6" CURB	4"	6" RET	ROFIT ADJ.	OF ADJ.	OF MA	ASONRY	SEED & PAV	ED '	PAVED U	UNPAVED (UNPAVED JU	NCTION INDU	UCTIVE LEAD	D-IN
					TYP	E SURFACE	ASPHALT					CONDITIONING	CONDITIONING	CULVERTS,	CULVERTS,	STONE BASE	RECONSTRUCTION	MILLING	COURSE,	COURSE, BINDER	MIX	COLLARS	DRAINAGE	GRATE & HOOD,	& GUTTER	CONCRETE C	NCRETE EXI	STING MANHO	LES METE	R OR DRA	AINAGE	MULCHING TRENCI	HING TRE	RENCHING TP	RENCHING TE	RENCHING	BOX LO	OOP CABLE	(14-2)
						TESTING	REQUIRED					MATERIAL,	FABRIC	CLASS III	CLASS III				S9.5B	SF9.5A FOR	(REPAIR)		STRUCTURES	STD 840.03,		SIDEWALK D	IVEWAY C	URB	VALVE	BOX STR	UCTURE	(2") (**	*******)	(1")	(2") (ST	ANDARD SAW	WCUT	
						REQUIRED)					MINOR STRS								PLANT				TYPE E			RA	MPS		R	EPAIR						SIZE)		
																				MIX																			
	NO		NO		NO			MI	FT	LS	CY	TON	SY	LF	LF	TONS	SMI	SY	TONS	TONS TONS	TONS	CY	EA	EA	LF	SY	SY	EA EA	E	A	EA	ACR LF		LF	LF	LF	EA I	LF I	£
				FROM KNOBBS CREEK DR TO CREEK																																			
20	7CPT.01.27.10701	1 Pasquotan	1 US 17 -ROAD ST C&G	ROAD	1 5 ML	J NO	NO	2.6	60	1	20	4	5		12	20		120,000	10,674	640	200	3		2	740	50	130	15 5	1	1	7	30	.0		650	600	30 4,	,740 3,7	.00
20	7CPT.01.27.10701	1 Pasquotan	2 US 17/US 158	FROM CREEK ROAD TO US 17 BYPASS	2 4 MD	NO NO	NO	4.63	48		1,500			16	16	100	19.42	267,983	22,529	1,352	100	4	1									9.5		200	200	200	14 3,	,360 6/	JO.
20	7CPT.01.27.10701	1 Pasquotan	3 MAINTENANCE PARKING AND ACCESS ROAD	FROM US 17 TO FENCE	3 2 2W	U NO	NO	0.25	18											400 27																			
			GRAND TOTAL	AL				7.48		1	1,520	4	5	16	28	120	19.42	387,983	33,203	400 2,019	300	7	1	2	740	50	130	15 5	1	L	7	9.5 30	.0	200	850	800	44 8,	,100 3,8	.00

THERMOPLASTIC AND PAINT QUANTITIES

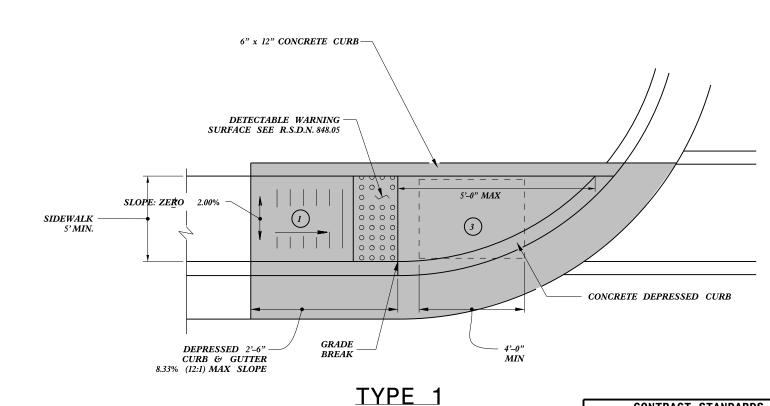
									1	TEMPORARY	WORK ZONE	4" X 90 M WHITE	4" X 90 M YELLOW	4" X 120 M	4" X 120 M	8" X 90 M WHITE	24" X 120 M	THERMO	THERMO LT ARROW THE	ERMO STR THERN	10 THERMO	4" WHITE	4" YELLOW	8" WHITE	24" WHITE		PAINT LT	PAINT STR	PAINT STR	PAINT RT	SNOW
PROJECT		COUNTY	MAP	ROUTE	DESCRIPTION	TYP LANES	LANE	LENGTH	WIDTH	TRAFFIC	SIGNS	THERMO	THERMO	WHITE THERMO	YELLOW	THERMO	WHITE	MSG	90 M AR	RROW 90 STR &	RT RT	PAINT	PAINT	PAINT	PAINT	SCHOOL	ARROW	ARROW	& RT	ARROW	PLOWABLE
							TYPE			CONTROL	(STATIONARY)				THERMO		THERMO	SCHOOL 120		M ARRO	w ARROW					1 ,			ARROW		MARKERS
NO			NO			NO				LS	SF	LF	LF	LF	LF	LF	LF	EA	EA	EA EA	EA	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA
					FROM KNOBBS CREEK DR TO CREEK																					1 ,					
2017CPT.01.27.1	10701.1	Pasquotar	nk 1	US 17 -ROAD ST C&G	ROAD	1 5	MU	2.6	60	1	120			21,450	35,641		500		99	35 6		8,250	35,641		500	<u> </u>	99	35	6		500
																										1 ,					
2017CPT.01.27.1	10701.1	Pasquotar	nk 2	US 17/US 158	FROM CREEK ROAD TO US 17 BYPASS	2 4	MD	4.63	48	*	300	50,625	44,250	17,629		1,750	540	12	30	63 4	11	68,254		1,750	540	12	30	63	4	11	640
2017CPT.01.27.1	10701.1	Pasquotar	nk 3	MAINTENANCE PARKING AND ACCESS ROAD	FROM US 17 TO FENCE	3 2	2WU	0.25	18						2,500								2,500			1 1					
				GRAND TOTAL				7.48		1	420	50,625	44,250	39,079	38,141	1.750	1.040	12	129	98 10	11	76,504	38,141	1.750	1.040	12	129	98	10	11	1.140
GRAND TOTAL								7.40			420	9	4,875	77,2	220	2,730	2,040			248		11	4,645	2,730	2,340			24	8		2,240

PROJECT REFERENCE NO. SHEET NO. 2017CPT.01.27.10701.1

PAY LIMITS FOR CURB RAMP



TYPE 1A



- (1) 8.33% (12:1) MAX RAMP SLOPE
- (2) CROSS SLOPE: 2.00%
- (3) CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

CONTRACT STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

CURB RAMPS

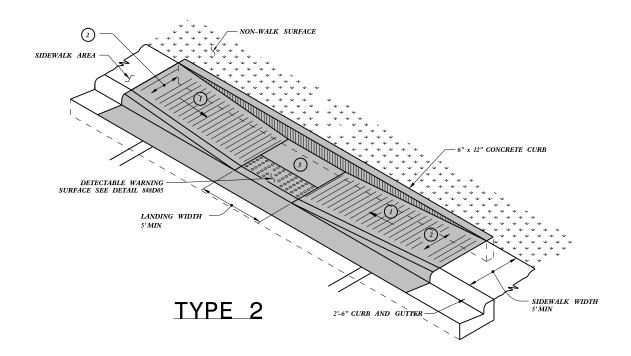
Directional Ramps

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.:stds/2012CurbRamp/CurbRampDetailord

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

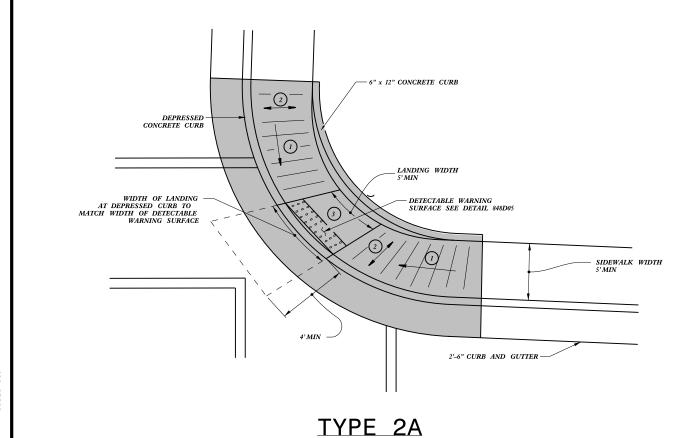
St.Contracts/Special Details\jhowerton\Standard Drag.jhowerton\Standard Drag.jhowerton AT CSD237501

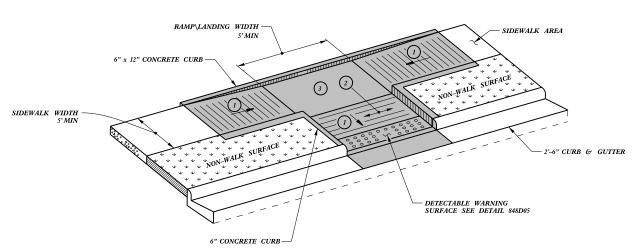
PROJECT REFERENCE NO. SHEET NO. 2017 CPT.01.27.10701.1



PAY LIMITS FOR CURB RAMP

- 1) 8.33% (12:1) MAX RAMP SLOPE
- (2) CROSS SLOPE: 2.00%
- (3) CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.





TYPE 3

CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

CURB RAMPS

Parallel Ramps

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.:stds/2012CurbRamp/CurbRampDetails.dog

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES