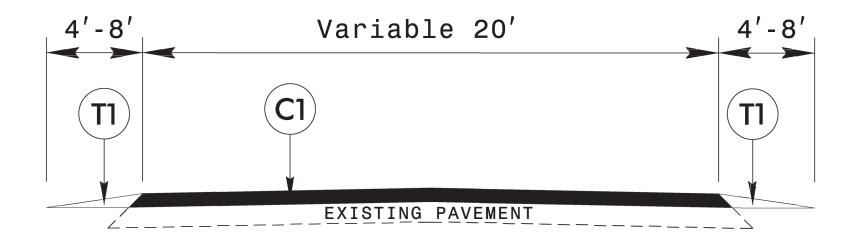
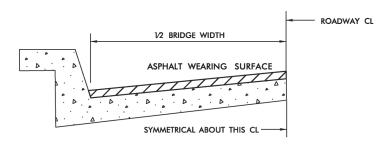


PROJECT NO.	SHEET NO.	TOTAL SHEETS
2022CPT.13.03.20571	2	10



# TYPICAL SECTION #1

	PAVEMENT SCHEDULE
C1	PROP. APPROX. 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YARD
T1	SHOULDER RECONSTRUCTION
V1	INCIDENTAL MILLING
V2	MILLING ASPHALT PAVEMENT 1-½" DEPTH



#### BRIDGE HALF TYPICAL SECTION

FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN.

THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. THE MINIMUM THICKNESS SHOULD DEPEND ON PAVEMENT TYPE AS FOLLOWS: \$4.75A 12", \$9.5B 1", \$9.5C,D 1.5" - 2". ULTRA-THIN HOT MIX ASPHALT - TYPE B 34". ULTRA-THIN HOT MIX ASPHALT - TYPE C 12". THE MAXIMUM THICKNESS SHOULD DEPEND ON PAVEMENT TYPE AS FOLLOWS: \$4.75A 1", \$9.5B 1.5", \$9.5C,D 2". ULTRA-THIN HOT MIX ASPHALT - TYPE A 34", ULTRA-THIN HOT MIX ASPHALT - TYPE B 58", ULTRA-THIN HOT MIX ASPHALT HOT MIX ASPHALT - TYPE C 12".

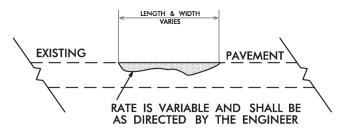
#### **NOTES**

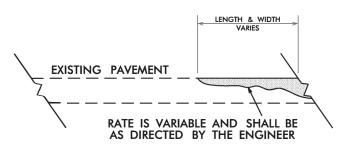
ALL UNPAYED ROADS TO BE RESURFACED 50' FROM EDGE OF PAYEMENT OF MAIN PROJECT. ALL PAYED S. R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER.

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

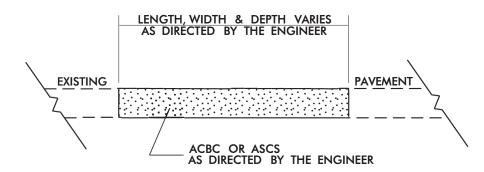
SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS UNLESS OTHERWISE INDICATED.

BRIDGES ARE TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.



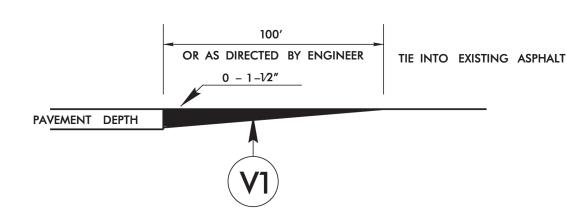


## DETAIL SHOWING METHOD OF WEDGING



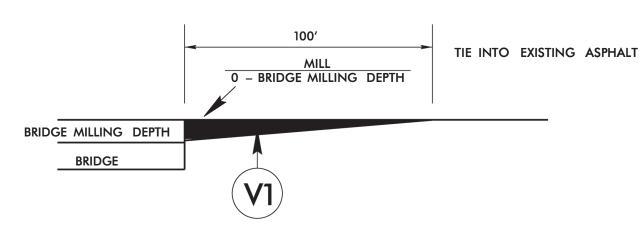
PATCHING EXISTING PAVEMENT

PROJECT NO.	SHEET NO.	TOTAL SHEETS
2022CPT.13.03.20571	4	10



## DETAIL TO TIE INTO EXIST PAVEMENT

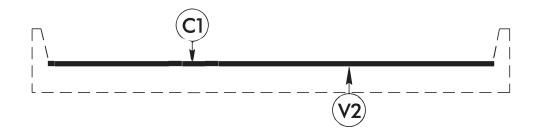
THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT HE WILL BE REQUIRED TO MILL THE EXISTING ASPHALT PAVEMENT TO ENSURE A PROPER TIE-IN WITH THE EXISTING SURFACE AT THE BEGINNING, END AND Y LINES OF EACH MAP TO BE RESURFACED WITH ASPHALT CONC SURFACE COURSE, TYPE \$9.5B AND \$9.5C. THIS WILL BE PAID FOR AS INCIDENTAL MILLING.



## MILLING DETAIL AT BRIDGE APPROACHES

WHERE BRIDGES WILL BE MILLED THEN RESURFACED. THIS WILL BE PAID FOR AS INCIDENTAL MILLING. USE AT BRIDGE NUMBER: 62 AND 63 MAP 1.

## BRIDGE



#### **BRIDGE DETAIL**

BRIDGE NUMBER 62 AND 63 MAP 1.

MILL 1–1/2" OFF EXISTING PAVEMENT

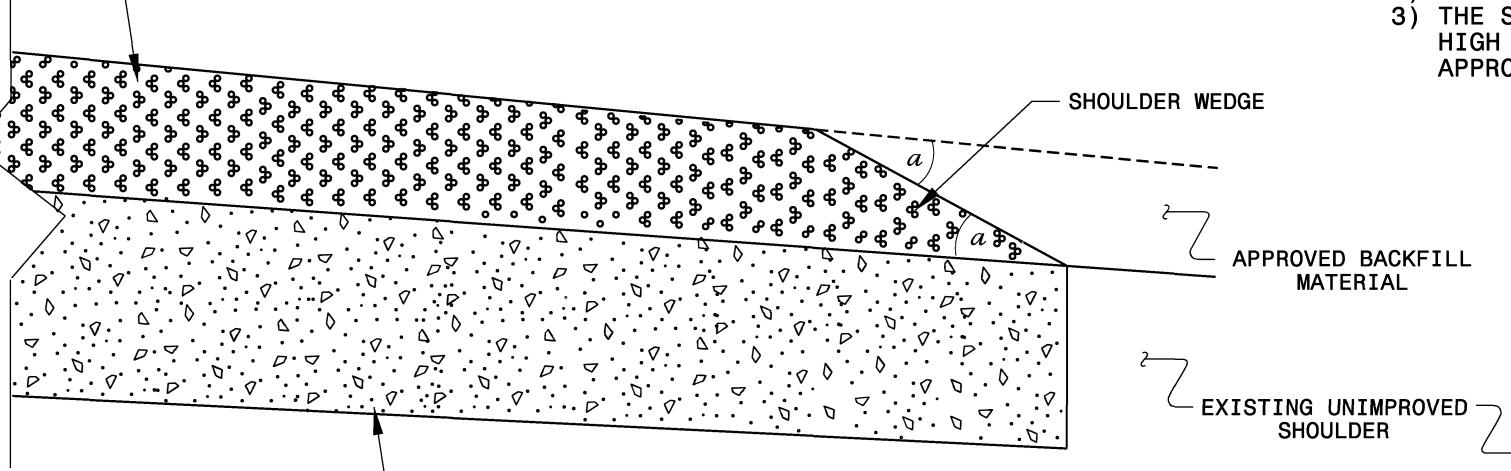
SEE MAP FOR BRIDGE LOCATION.

NOTES:

1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.

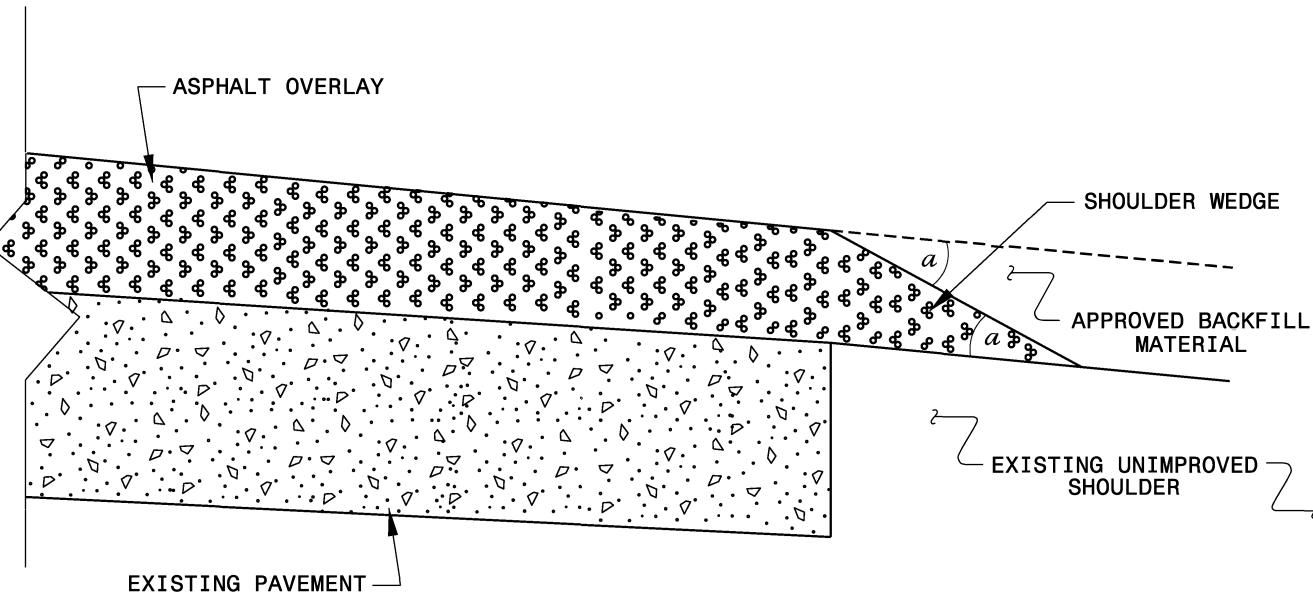
2) BACKFILL SHOULDER WITH APPROVED MATERIAL.

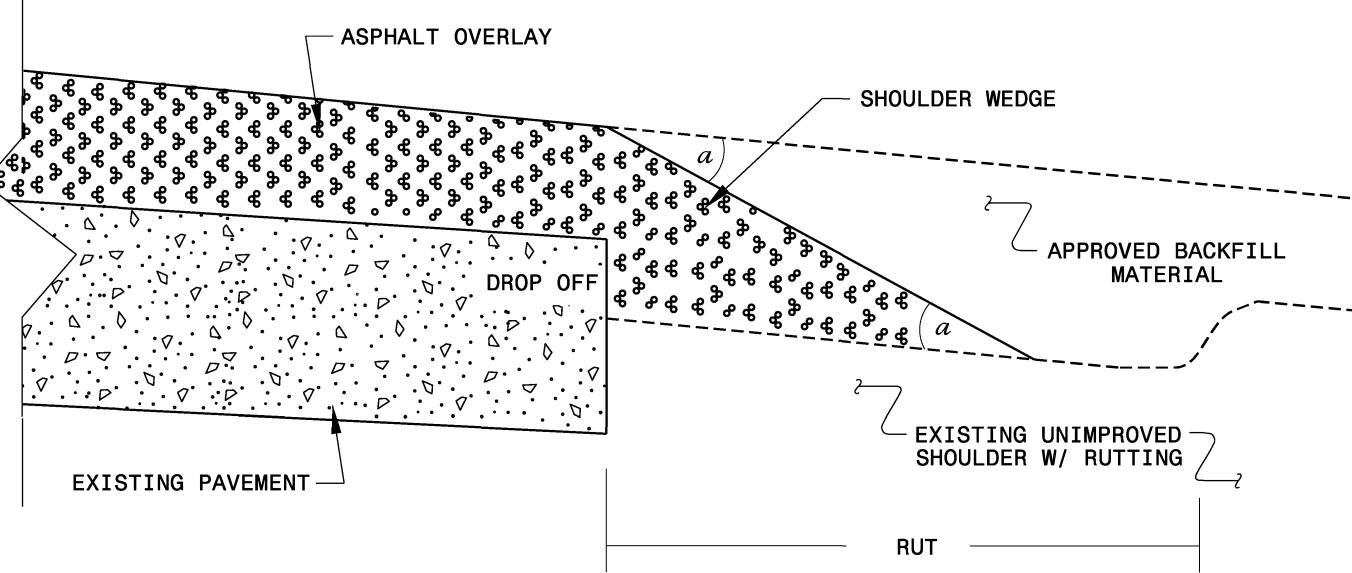
3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



# 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:\_MODIFIED BY:\_ DOCUMENT NOT CONSIDERED FINAL CHECKED BY: DATE: UNLESS ALL SIGNATURES COMPLETED FILE SPEC.: s:usr/details/stand/shoulderwedgedetail.dgn

# SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

- ASPHALT OVERLAY

PROPOSED PAVEMENT —

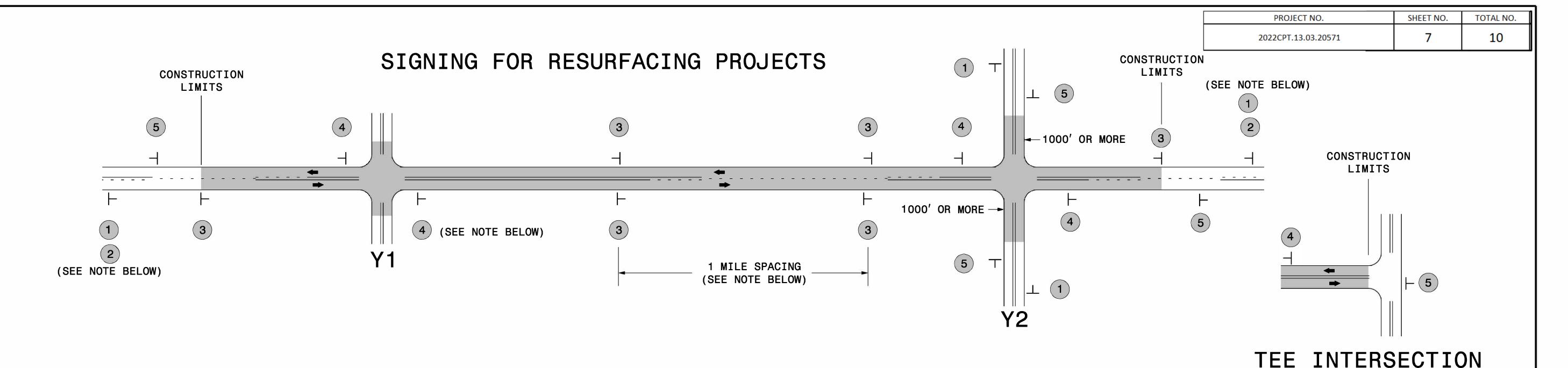
PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.13.03.20571	6	10

## SUMMARY OF QUANTITIES

											122000000-E	1245000000-E	1260000000-E	1297000000-E	133000000-E	1519000000-E	1575000000-E	1704000000-E
PROJECT NO COUNT	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE	FINAL	WARM MIX	LENGTH	WIDTH	INCIDENTAL	SHOULDER	AGGREGATE	MILLING	INCIDENTAL	ASPHALT CONC	ASPHALT	PATCHING
						TYPE	SURFACE	ASPHALT			STONE BASE	RECONSTRUCTION	SHOULDER	ASPHALT	MILLING	SURFACE	BINDER FOR	EXISTING
							TESTING	REQUIRED					BORROW	PAVEMENT,		COURSE, TYPE	PLANT MIX	PAVEMENT
							REQUIRED							1-1/2" DEPTH		S9.5B		
									MI	FT	TON	SMI	TON	SY	SY	TON	TON	TON
			FROM SR 1390 TO 6.08 MILES NORTH															
2022CPT.13.03.20571 Madiso	1	SR 1395 WALNUT CREEK RD	ON SR 1395 (MP 2.58 TO 8.66)	1	2	2WU	NO	NO	6.08	20	355	12.16	1,581	270	4,125	6,097	409	620
TOTAL FOR PRO	J NO. 2022	CPT.13.03.20571							6.08		355	12.16	1,581	270	4,125	6,097	409	620
					,	,												
G	RAND TOTA	AL							6.08		355	12.16	1,581	270	4,125	6,097	409	620

## THERMOPLASTIC AND PAINT QUANTITIES

										4413000000-E	4457000000-N	4810000000-E	481000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE	LENGTH	WIDTH	WORK ZONE	TEMPORARY	PAINT PAVEMENT	PAINT PAVEMENT
							TYPE			ADVANCE/GENERAL	TRAFFIC	MARKING LINES	MARKING LINES (4")
										WARNING SIGNING	CONTROL	(4") WHITE	YELLOW
								MI	FT	SF	LS	LF	LF
				FROM SR 1390 TO 6.08 MILES NORTH									
2022CPT.13.03.20571	Madison	1	SR 1395 WALNUT CREEK RD	ON SR 1395 (MP 2.58 TO 8.66)	1	2	2WU	6.08	20	672	1	128,410	128,410
TOTAL	FOR PROJ	NO. 20220	CPT.13.03.20571					6.08		672	1	25	6,820
·	GR	AND TOTA	AL .					6.08		672	1	25	6,820



## **LEGEND**

├ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW

## MAINLINE (-L-) SIGNING

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

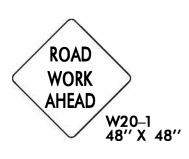
1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE

-Y- LINE SIGNING

- 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.

# IGNING NOTES AND EMENT PER DIRECTIO

S

ROAD
WORK
AHEAD
W20-1
48" X 48"

NEXT
XX MILES
24" X 18"

PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS.
ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.

#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)

SP 13107 48" X 48"

ROAD

UNDER

- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.
- AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.
- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS.
- DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.
- INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.
- FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH.
- A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.
- FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.

END ROAD WORK G20-2 A 48" X 24"

PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.

OF HIGHWAY OF TRAFFIC

RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS

Uesktopikesurtacing\_Advwarn\_Zln.agn

4/20/2010 C:\Users\rmgarrett\Des

BACKG COLOR: Fluorescent Orange SIGN NUMBER: 11299 **COPY COLOR: Black** TYPE: В QUANTITY: SEE PLANS SIGN WIDTH: 5'-6"

QUANTITY: SEE PLANS	SYMBOL	Х	Y	WID	НТ
SIGN WIDTH: 5'-6" HEIGHT: 5'-6"					
TOTAL AREA: 30.5 Sq.Ft.					
BORDER TYPE: INSET					
RECESS: 0.59" WIDTH: 0.75"					
RADII: 1.38"					

MAT'L: 0.125" (3.2 mm) ALUMINUM

NO. Z BARS: N/A

LENGTH: N/A

USE NOTES: 1,2

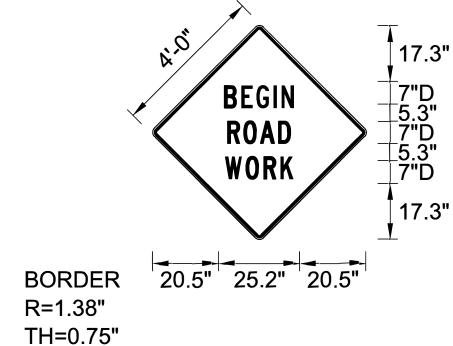
- 1. Legend and border shall be direct applied black non-reflective sheeting.
- 2. Background shall be Type VII, VIII, or IX (prismatic) fluorescent orange retroreflective sheeting.

DESIGN BY: WJ CHECKED BY: PROJECT ID: DIV: ALL ALL

SP 11299

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.13.03.20571	8	10

DATE: Jun 22, 2011



IN=0.59"

Spacing Factor is 1 unless specified otherwise

#### LETTER POSITIONS

							Lett	ter	spac	ing	s ar	e to	start	of	next	let	ter				Series/Size Text Length
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FILENAME: SP11299.PDF

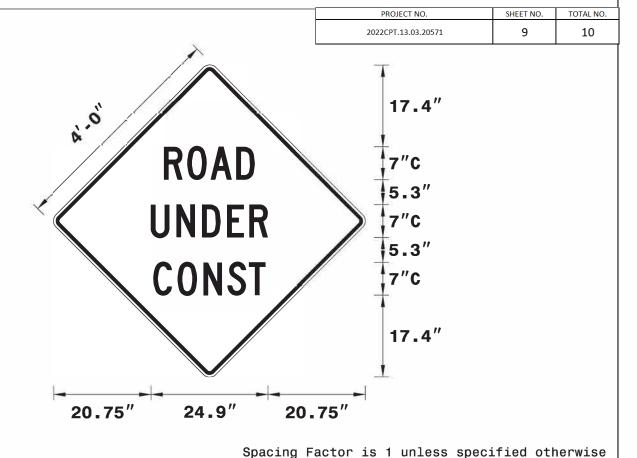
NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: SP13106 BACKG COLOR: Fluorescent Orange COPY COLOR: **Black** TYPE: STATIONARY QUANTITY: SEE PLANS SYMBOL X WID HT Υ SIGN WIDTH: 4'-0" HEIGHT: 4'-0" TOTAL AREA: 16.00 Sq.Ft. **BORDER TYPE: INSET RECESS: 0.75**" WIDTH: 1.25" RADII: 3" MAT'L: 0.080" (2.0 mm) ALUMINUM NO. Z BARS:

USE NOTES: 1,2

- 1. Legend and border shall be direct applied black non-reflective sheeting.
- 2. Background shall be NC GRADE B fluoresent orange retroreflective sheeting.

DESIGN BY: B. RASHID CHECKED BY: AIA
PROJECT ID: DIV:



NORTH CAROLINA D.O.T. SIGN DETAIL

DATE: Apr 26, 2013

#### LETTER POSITIONS

FILENAME: SP130XX\_Sgn\_SGN\_special

LENGTH:

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	С	0	N	S	Т			1					7				2	C 20
21.2	5.2	5.5	5.1	4.6	3.6	21.2												23.
				3 5														

SIGN NUMBER: SP13107 BACKG COLOR: Fluorescent Orange COPY COLOR: Black TYPE: STATIONARY QUANTITY: SEE PLANS SYMBOL WID HT SIGN WIDTH: 4'-0" HEIGHT: 4'-0" TOTAL AREA: 16.00 Sq.Ft. **BORDER TYPE: INSET RECESS: 0.75**" WIDTH: 1.25" RADII: 3" MAT'L: 0.080" (2.0 mm) ALUMINUM NO. Z BARS: LENGTH:

USE NOTES: 1,2

- 1. Legend and border shall be direct applied black non-reflective sheeting.
- 2. Background shall be NC GRADE B fluoresent orange retroreflective sheeting.

DESIGN BY: B. RASHID PROJECT ID:	CHECKED BY: AIA DIV:	DATE: A	Apr 26, 2	2013
		PROJECT NO.	SHEET NO.	TOTAL NO.
	× .	2022CPT.13.03.20571	10	10
	LOW/SOFT SHOULDEF	1 4 5	cified ot	herwise

#### LETTER POSITIONS

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	S	Н	0	U	L	D	E	R													D 200
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