INDEX OF SHEETS

SHEET

INDEX OF SHEETS & TITLE SHEETS

2 - 3 PAVEMENT SCHEDULE, TYPICAL SECTIONS

4 - 5 SUMMARY OF QUANTITIES

6 - 18 DETAIL SHEETS

SHEET NO.

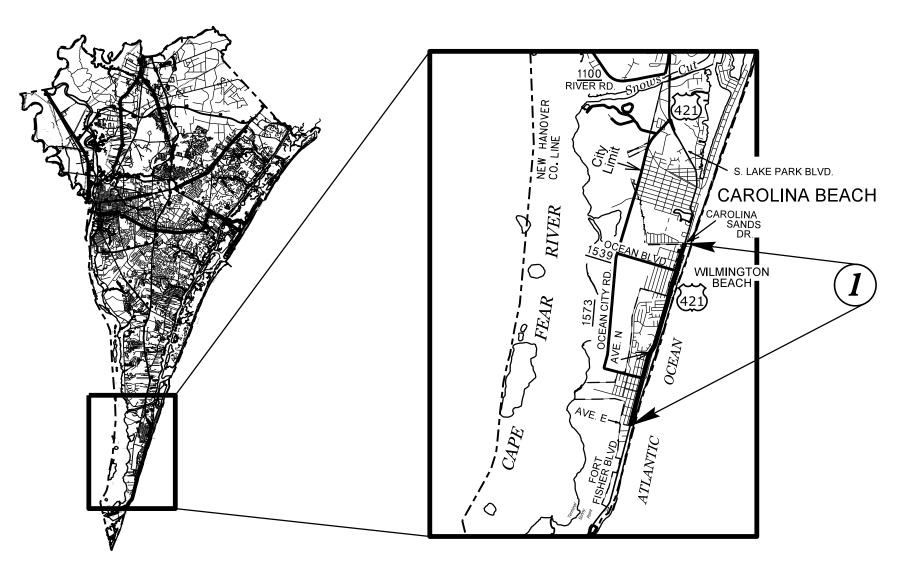
### STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

NEW HANOVER COUNTY

N.C. 1 | 18 3CR.10651.166

LOCATION: 1 SECTION OF US 421

TYPE OF WORK: MILLING & RESURFACING, ETC.



### PROJECT LENGTH

 $MAP \ NO.1 = 2.52 \ MI.$ 

TOTAL = 2.52 MI.

#### Prepared in the Office of: **DIVISION OF HIGHWAYS** 5501 Barbados Blvd., Castle Hayne, NC 28429

2012 STANDARD SPECIFICATIONS

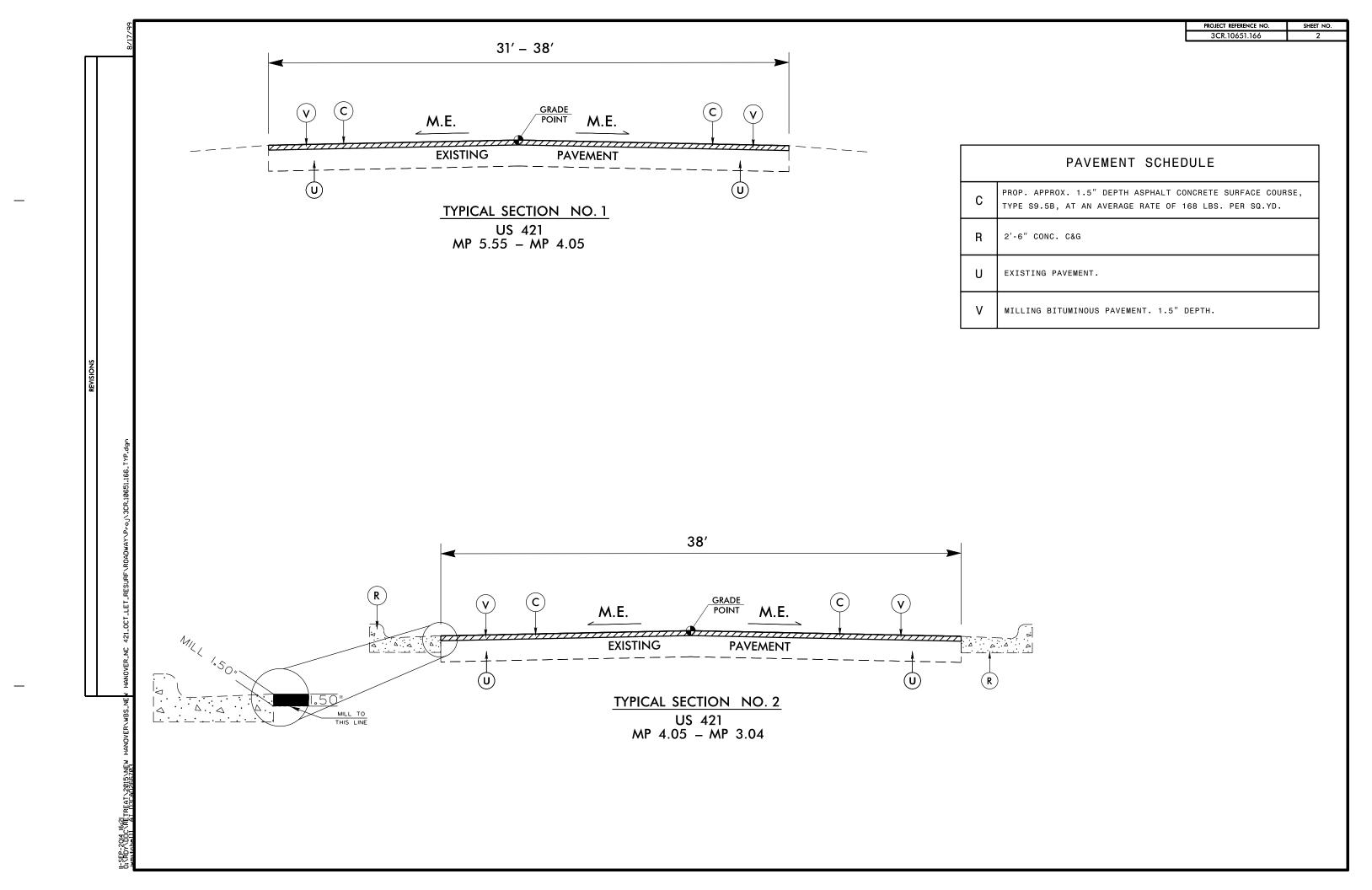
RIGHT OF WAY DATE:

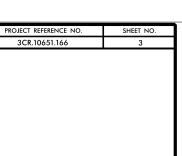
LETTING DATE: OCT. 23, 2014

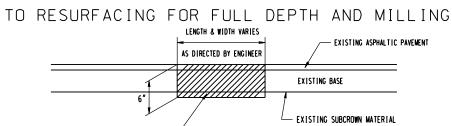
S. COOKE, P.E. PROJECT ENGINEER

D. LEONARD, P.E. PROJECT DESIGN ENGINEER





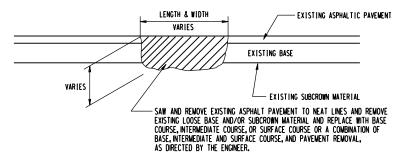




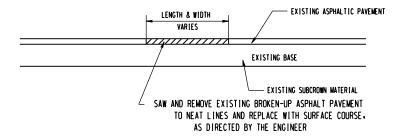
DETAILS OF REPAIRING EXISTING PAVEMENT PRIOR

EXISTING ASPHALT PAYEMENT BASE AND/OR SUBCROWN MATERIAL TO BE REMOVED AND REPLACED WITH BASE COURSE, INTERMEDIATE COURSE OR SURFACE COURSE OR A COMBINATION OF BASE, INTERMEDIATE AND SURFACE COURSE, AND PAYEMENT REMOVAL, AS DIRECTED BY THE FINISHER.

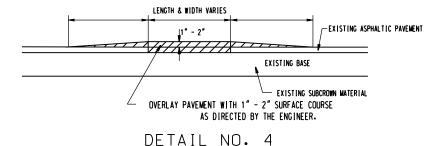
### DETAIL NO. 1

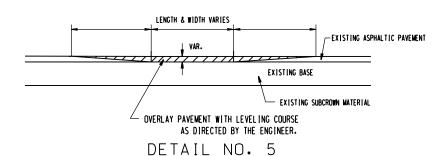


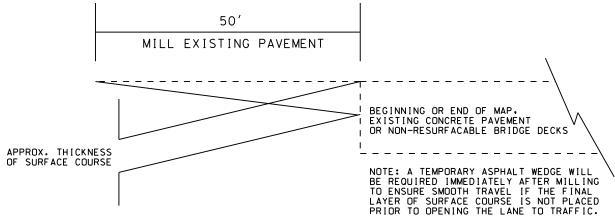
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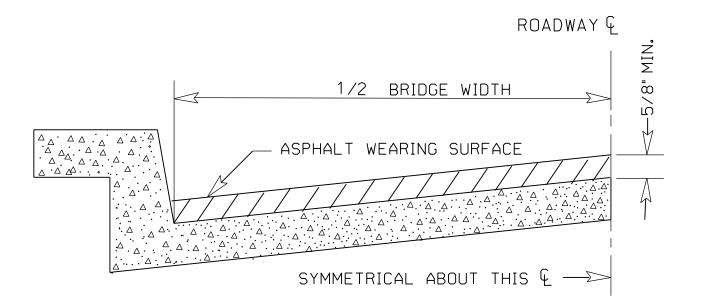


#### DETAIL NO. 3









### 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. A THICKNESS OF NOT LESS THAN 5/8" SHALL BE PROVIDED. THE MAXIMUM THICKNESS SHALL PREFERABLY BE 1-1/2" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.

PROJECT NO.	SHEET NO.	TOTAL NO.
3CR.10651.166	4	18

### SUMMARY OF QUANTITIES

PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES			WARM MIX	LENGTH	WIDTH		1 1/2"	INC.	SURFACE		2'-6" CURB	REMOVE &	ADJ. OF	ADJ. OF	ADJ. OF	INDUCTIVE	LEAD-IN
							TYPE	SURFACE TESTING REQUIRED	ASPHALT REQUIRED			BASE	MILLING	MILLING	COURSE, S9.5B	BINDER FOR PLANT MIX	& GUTTER, REMOVE & REPLACE	REPLACE CURB RAMPS	MANHOLES	MON	METER OR VALVE BOX	LOOP SAWCUT	CABLE (14-2)
NO		NO			NO					МІ	FT	TONS	SY	SY	TONS	TON	LF	EA	EA	EA	EA	LF	LF
3CR.10651.166	NewHanover	1	US 421	MILL AND RESURFACE FROM CAROLINA SANDS DR. (NON-SYSTEM) TO N AVE. (NON-SYSTEM)	1	2	2WU	NO	NO	1.51	31	36	27,638	345	2,449	147			13		2		
			"	MILL AND RESURFACE FROM N AVE. (NON-SYSTEM) TO E AVE. (NON- SYSTEM)	2	2	2WU	NO	NO	1.01	38	24	22,516		1,992	120	489	21	45	4	4	1,050	150
тот	AL FOR MAP NO	). 1	•							2.52		60	50,154	345	4,441	267	489	21	58	4	6	1,050	150
TOTAL FOR	PROJ NO. 3CR.1	10651.1	166							2.52		60	50,154	345	4,441	267	489	21	58	4	6	1,050	150
	GRAND TOTAL									2.52		60	50,154	345	4,441	267	489	21	58	4	6	1,050	150

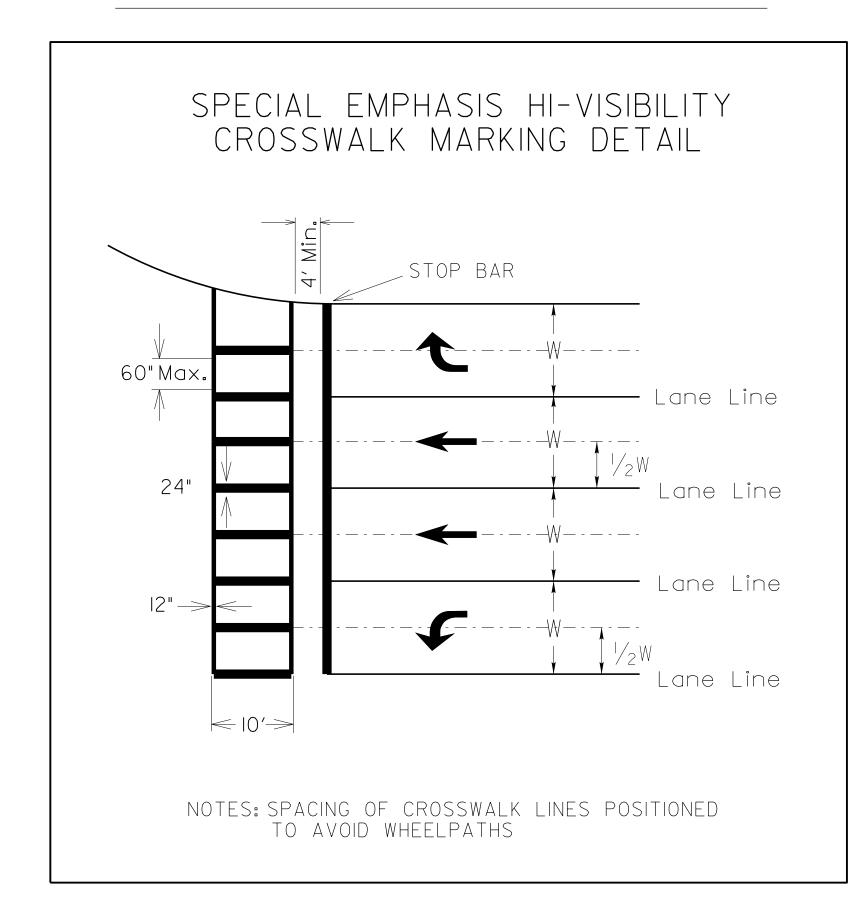
PROJECT NO.	SHEET NO.	TOTAL NO.
3CR.10651.166	5	18

### THERMOPLASTIC AND PAINT QUANTITIES

										4413000000-E	4457000000-N	4510000000-N	4685000000-E	468600	0000-E	4702000000-E	4710000000-E		472500	0000-Е		490500	00000-N
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES	LANE L	ENGTH	WIDTH	WORK ZONE	TEMPORARY	LAW	4" X 90 M	4" X 120 M	4" X 120 M	12" X 120 M	24" X 120 M	THERMO LT	THERMO STR	THERMO RT	THERMO BIKE	SNOW	SNOW
							TYPE			ADVANCE/GE	TRAFFIC	ENFORCEMEN	WHITE	WHITE	YELLOW	WHITE	WHITE	ARROW 90	& RT ARROW	ARROW 90	LANE WITH	PLOWABLE	PLOWABLE
										NERAL	CONTROL	T	THERMO	THERMO	THERMO	THERMO	THERMO	М	90 M	M	ARROW	MARKERS	MARKERS
										WARNING												(C/R)	(Y/Y)
										SIGNING													
NO		NO			NO					SF	LS	HR	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA
				MILL AND RESURFACE FROM																			
				CAROLINA SANDS DR. (NON-SYSTEM)																			
3CR.10651.166	NewHanover	1	US 421	TO N AVE. (NON-SYSTEM)	1	2	2WU	1.51	31	288	0.50	40.00	15,840	530	25,870	312	318	3	3	1	7	12	176
				MILL AND RESURFACE FROM N AVE.																			
				(NON-SYSTEM) TO E AVE. (NON-																			
		"	"	SYSTEM)	2	2	2WU	1.01	38		0.50					204	150						
TOTA	L FOR MAP NO	). 1						2.52		288	1	40	15,840	530	25,870	516	468	3	3	1	7	12	176
TOTAL FOR D	DOI NO 200 1	10651 1	166					2.52		288	1	40	15,840	530	25,870	516	468	3	3	1	7	12	176
TOTAL FOR PROJ NO. 3CR.10651.166			100											26,	400				1	4		1	88
6	RAND TOTAL							2.52		288	1	40	15,840	530	25,870	516	468	3	3	1	7	12	176
9	INAND TOTAL													26,	400				1	4		1	88

PROJECT REFERENCE NO. SHEET NO. 3CR.10651.166 6

### PAVEMENT MARKING DETAILS



SHEET NO PROJECT PEFERENCE NO 3CR 10651 166

MANHOLE

AND

VALVE

BOX

**ADJUSTMENTS** 

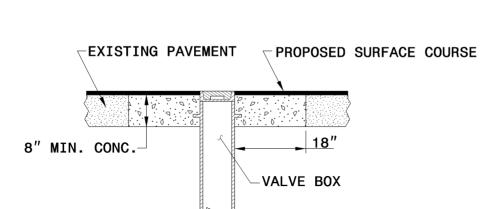
**ENGLISH** 

DETAIL

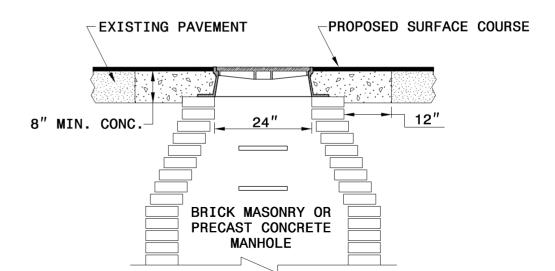
DRAWING

**GENERAL NOTES:** 

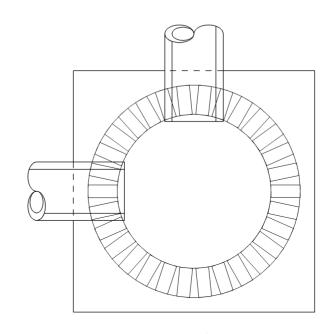
- 1. USE RAPID SET GROUT, MORTAR, OR CONCRETE WITH A MINIMUM COMPRESSIVE STRENGHT OF 4000 PSI.
- 2. REMOVE ALL FAULTY EXISTING BRICKWORK AND REPLACE WITH NEW BRICK MASONRY.
- 3. SHEER CUT EXCAVATION FOR THE ADJUSTMENT ON ALL SIDES.
- 4. FILL AREA BELOW 8" DEPTH WITH 78M OR NO. 57 CLEAN STONE.
- 5. MIX MORTAR TO NCDOT SPECIFICATIONS.
- 6. MORTAR JOINTS 1/2" +/- 1/8"



VALVE BOX CONCRETE ENCASEMENT



### MANHOLE CONCRETE ENCASEMENT



**ELEVATION VIEW** 

PLACE BRICK ACCORDING TO ELEVATION VIEW

**ADJUSTMENTS** DRAWING BOX DETAIL VALVE ENGLISH AND ш MANHOL

SHEET 1 OF 1 840D55

PROJECT SERVICES UNIT STANDARDS AND SPECIAL DESIGN Office 919-250-4128 FAX 919-250-4119

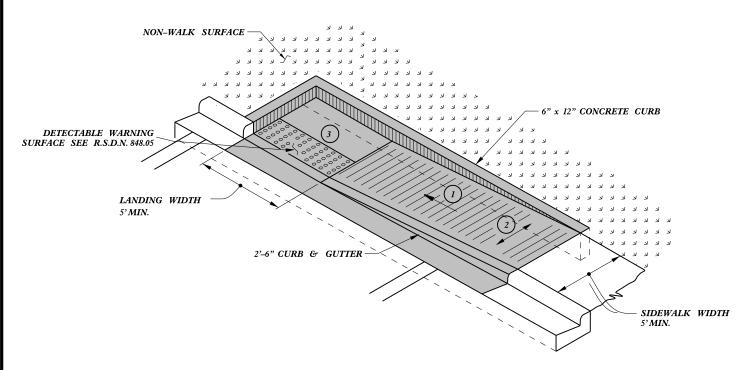
SEE PLATE FOR TITLE

ORIGINAL BY: MODIFIED BY: E.E. WARD \_DATE: \_DATE: CHECKED BY: DATE:
FILE SPEC: /usr/details/stand/840d55.dgn

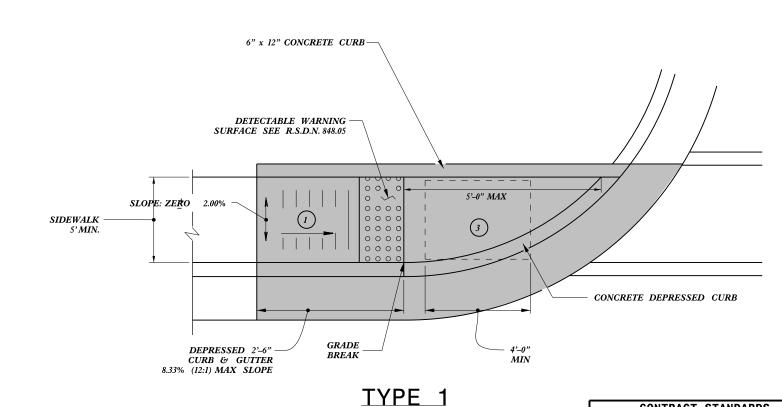
SHEET 1 OF 1 840D55

PROJECT REFERENCE NO. SHEET NO.

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**

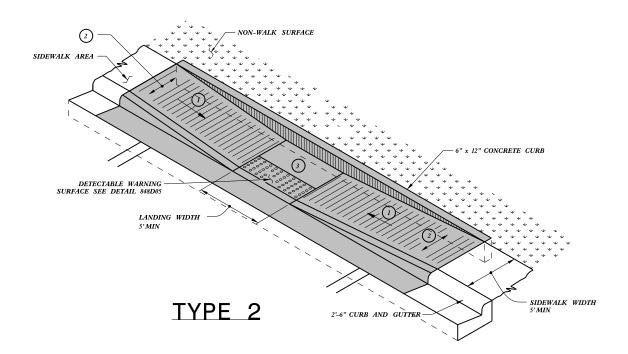
Directional Ramps

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

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

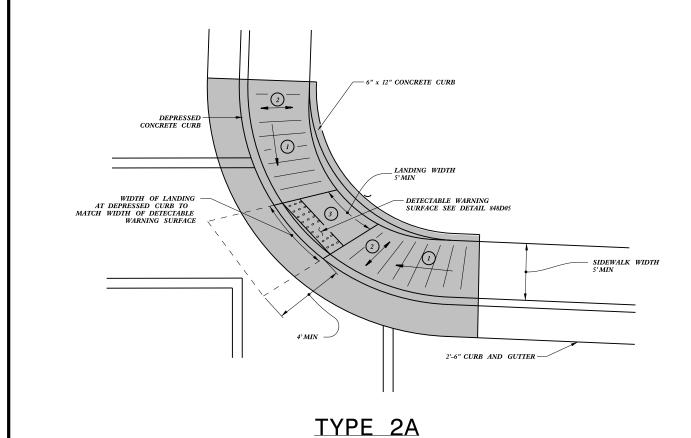
S:\Contracts\Contracts\Special Details\jhowerton\Standard Draw ihowerton AT CSD237501

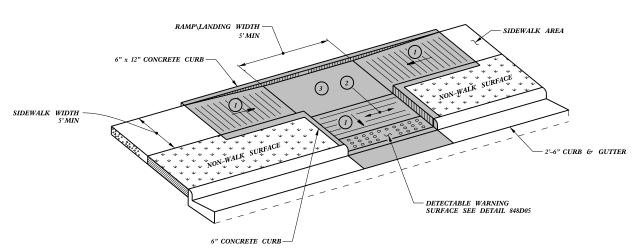
PROJECT REFERENCE NO. SHEET NO.



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

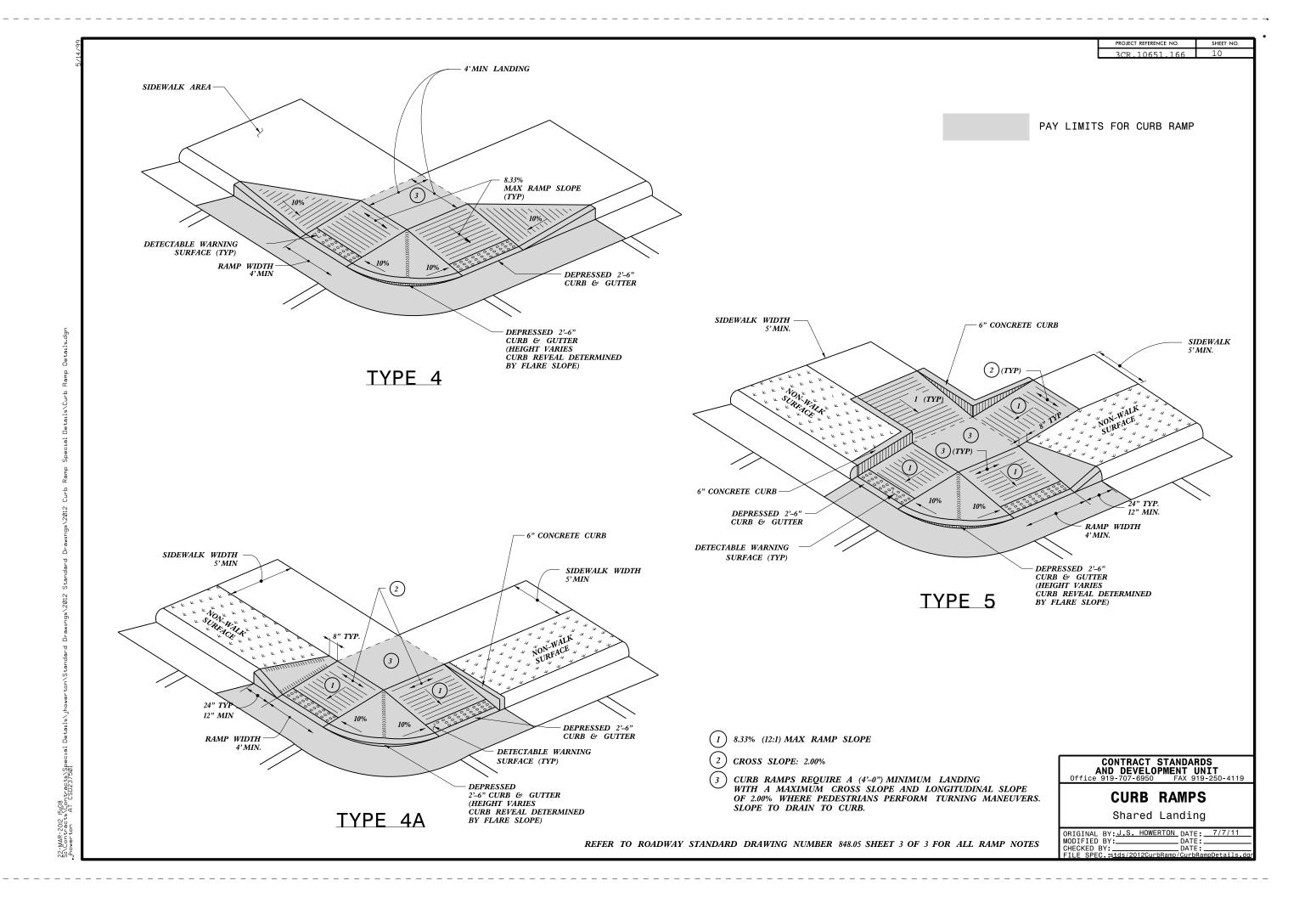
CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

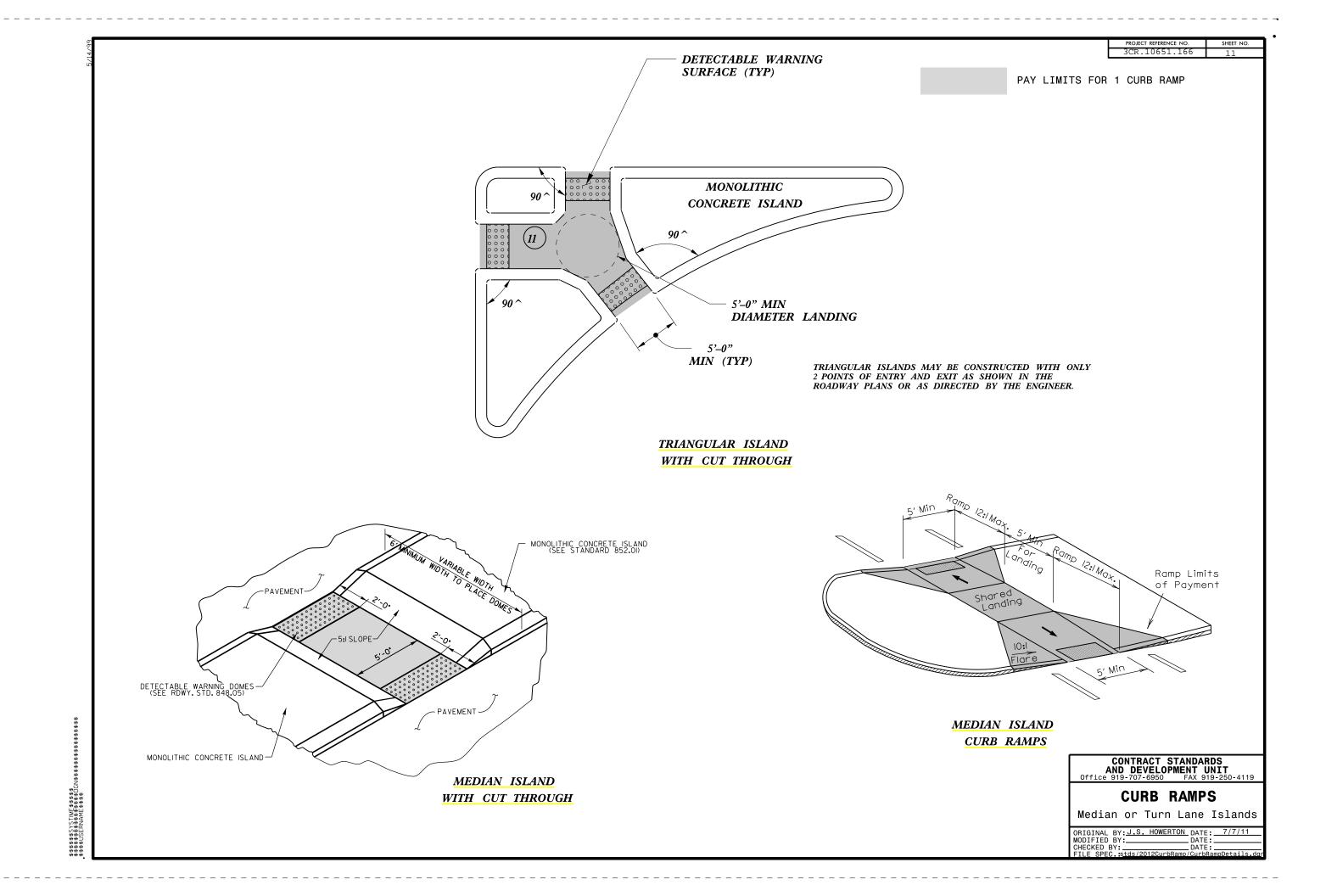
### **CURB RAMPS**

Parallel Ramps

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

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





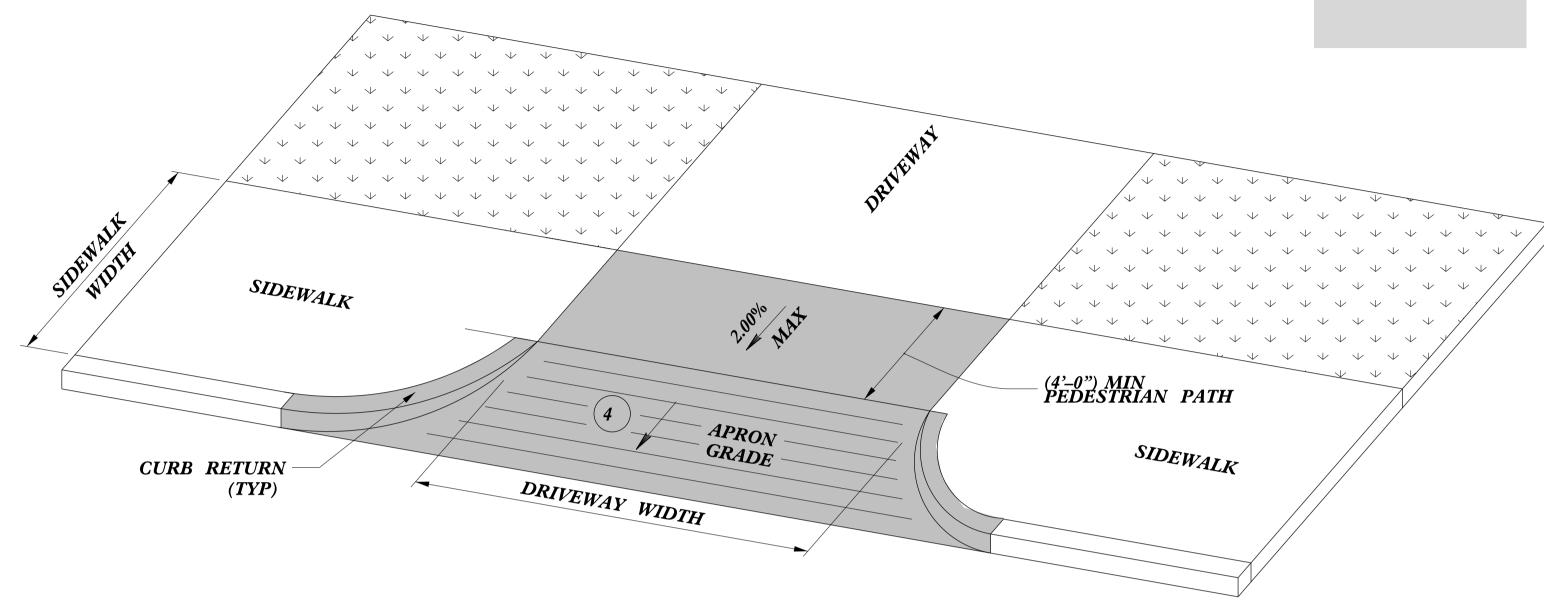
PROJECT REFERENCE NO. SHEET NO. 3CR.10651.166 12

(1) 8.33% (12:1) MAX RAMP SLOPE

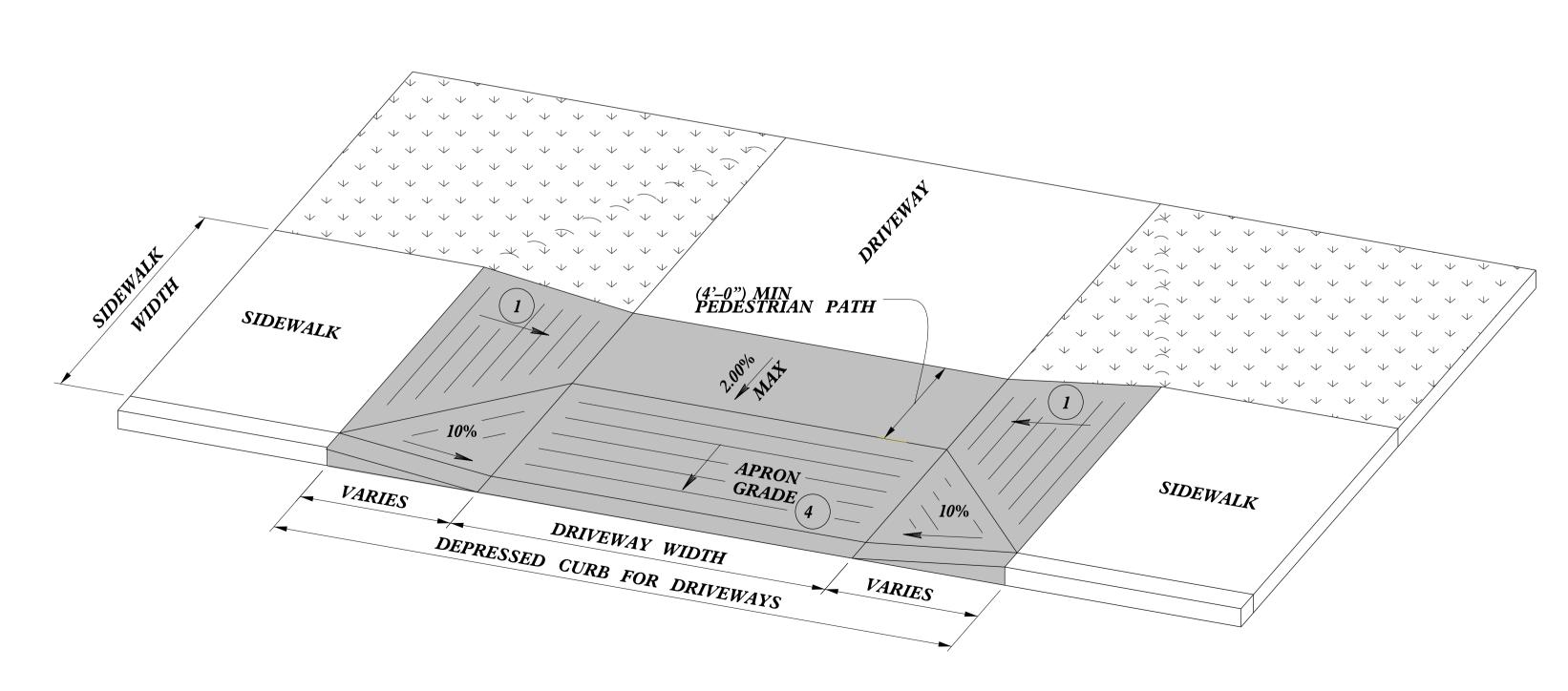
(2) CROSS SLOPE: 2.00%

4 8.00% MAX CHANGE IN GRADE BETWEEN ROAD SURFACE AND DRIVEWAY

PAY LIMITS FOR 1 CURB RAMP



DRIVEWAY APRON
OPTION 1



-SEE ROADWAY DETAIL DRAWING 848.05 FOR DETECTABLE WARNING SURFACE AND FOR RAMP NOTES.

-SEE ROADWAY STANDARD DRAWING 848.02 FOR CONCRETE DRIVEWAYS.

DRIVEWAY APRON

OPTION 2

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

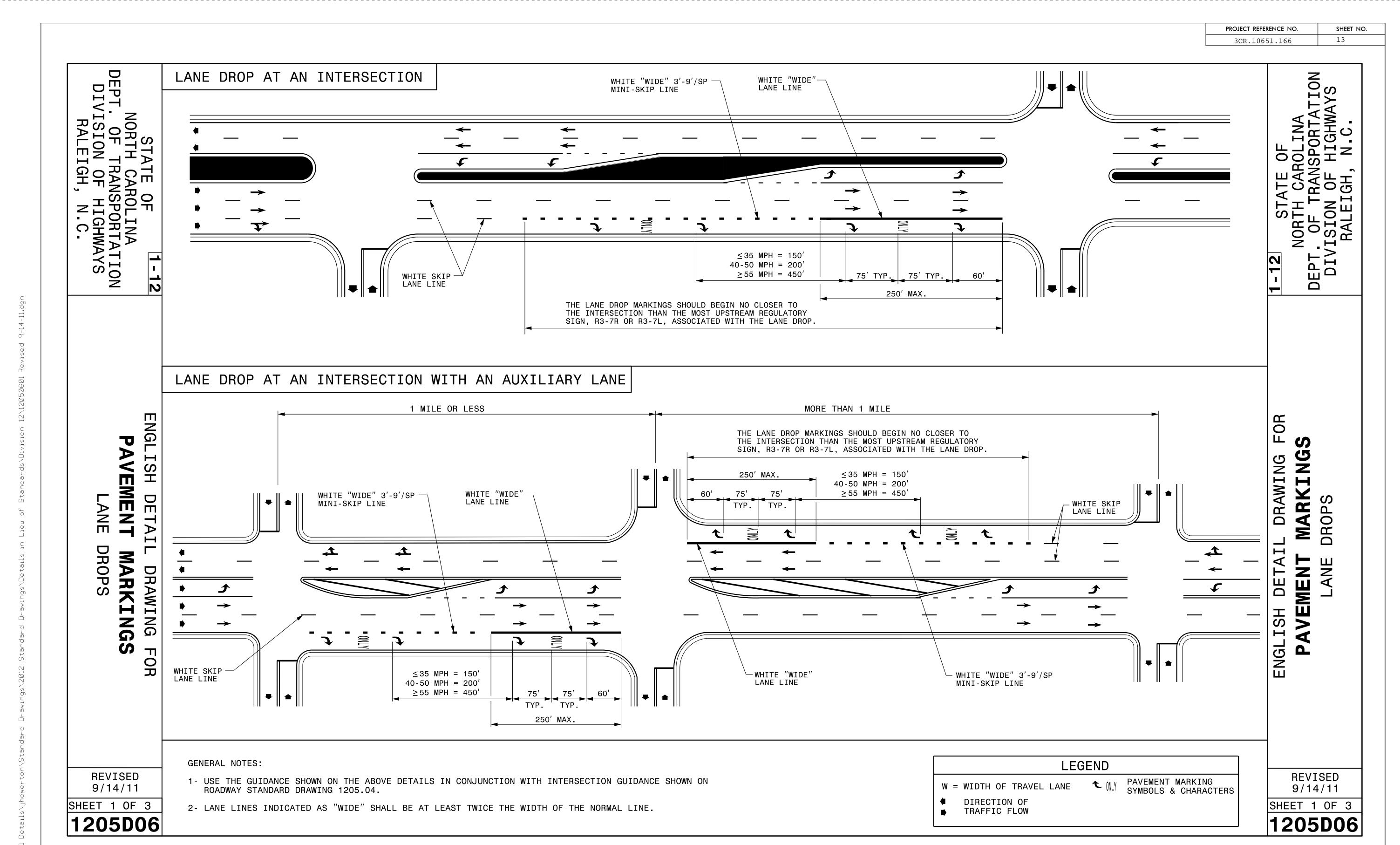
CURB RAMPS

@ DRIVEWAY OPENINGS

NAL BY: J.S. HOWERTON DATE: 7/7/1

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11

MODIFIED BY: DATE: DATE: DATE: FILE SPEC.:stds/2012CurbRamp/CurbRampDetails.dgn



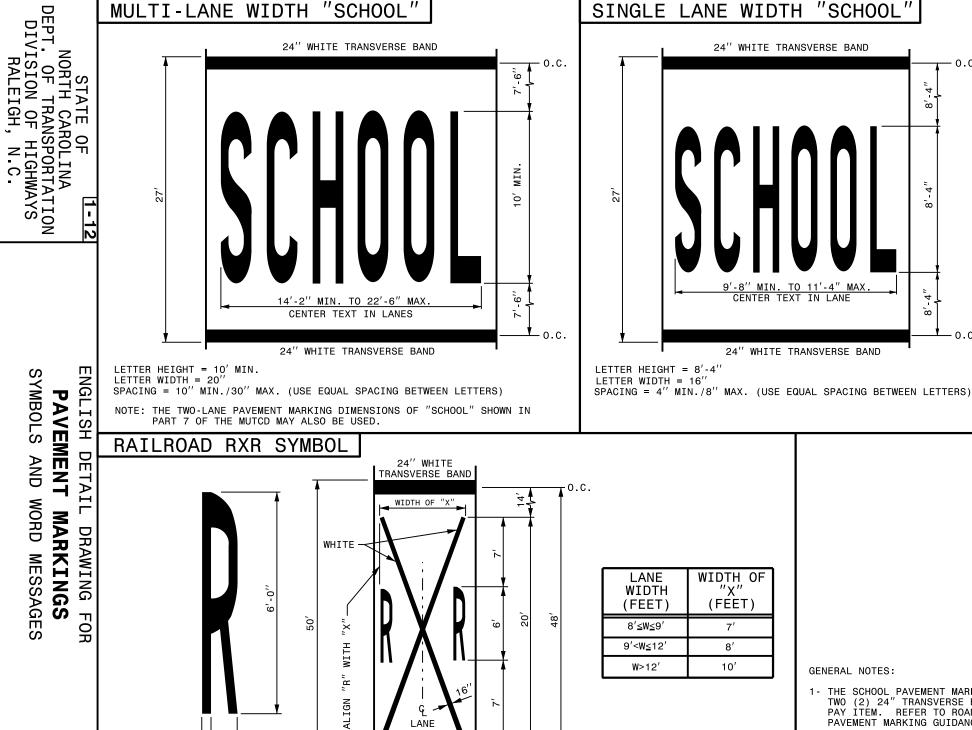
CONTRACT STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: J. HOWERTON DATE: 10/5/11

MODIFIED BY: DATE: DATE: DATE: FILE SPEC.: s:joel/12 Stds to Special Details/560d01

PROJECT REFERENCE NO. SHEET NO. 3CR.10651.166



24" WHITE

TRANSVERSE BAND

LANE WIDTH

"SCHOOL

MULTI-LANE WIDTH

11½″

REVISED

9/14/11

SHEET 3 OF 8

26-OCT-20||14:4| S:\Contracts\Contr \$\$\$\$USERNAME\$\$\$\$

1205D08

24" WHITE TRANSVERSE BAND - O.C. 8'-4" 8'-4" - O.C. 24" WHITE TRANSVERSE BAND

"SCHOOL

SINGLE LANE WIDTH

16′′ 16" 7'-0"

1-12 STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C. -12

> FOR MESSAGES MARKINGS DRAWING WORD DETAIL **PAVEMENT** AND ENGLISH SYMBOLS

**GENERAL NOTES:** 

- 1- THE SCHOOL PAVEMENT MARKING CONSISTS OF SIX (6) CHARACTERS. THE TWO (2) 24" TRANSVERSE BANDS WILL BE PAID FOR UNDER A SEPARATE PAY ITEM. REFER TO ROADWAY STANDARD DRAWING 1205.10 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.
- 2- PAVEMENT MARKING ADVANCE OF A HIGHWAY-RAIL CROSSING SHALL CONSIST OF TWO (2) CHARACTERS AND TWO (2) 16" LINES (FORMING AN X) WHICH ARE PAID FOR UNDER TWO SEPARATE PAY ITEMS. THE TWO (2) 24" TRANSVERSE BANDS WILL BE PAID FOR UNDER A SEPARATE PAY ITEM. REFER TO ROADWAY STANDARD DRAWING 1205.11 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

REVISED 9/14/11

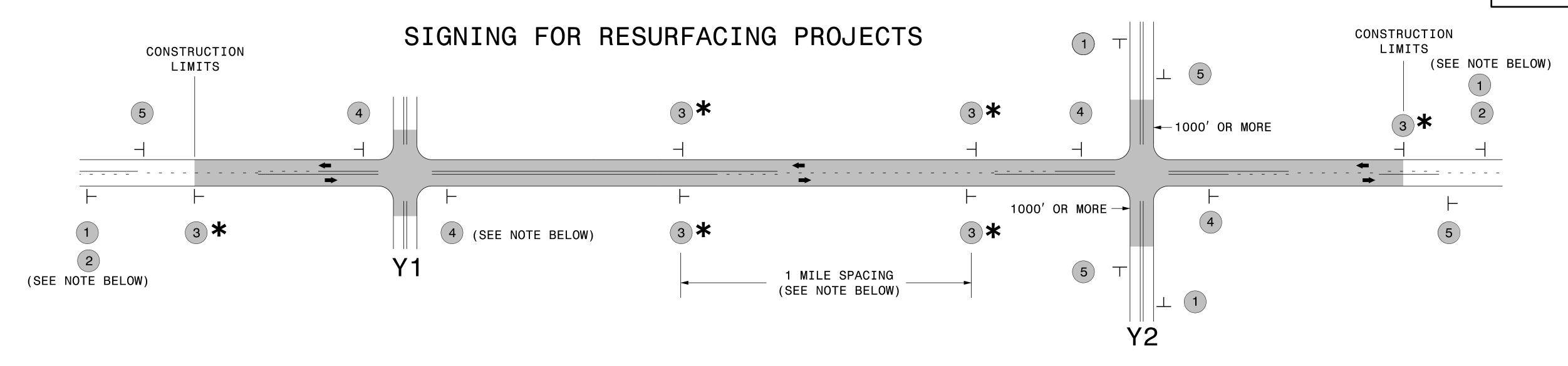
SHEET 3 OF 8 1205D08

CONTRACT STANDARDS
AND DEVELOPMENT UNIT

SEE TITLE BLOCK

ORIGINAL BY:	J. HOWERTON DATE: 10/5/11	
MODIFIED BY:	DATE:	
CHECKED BY:_	DATE:	
FILE SPEC.:_	s:joel/12 Stds to Special Details/560d01	

PROJ. REFERENCE NO. SHEET NO. 3CR.10651.166 15



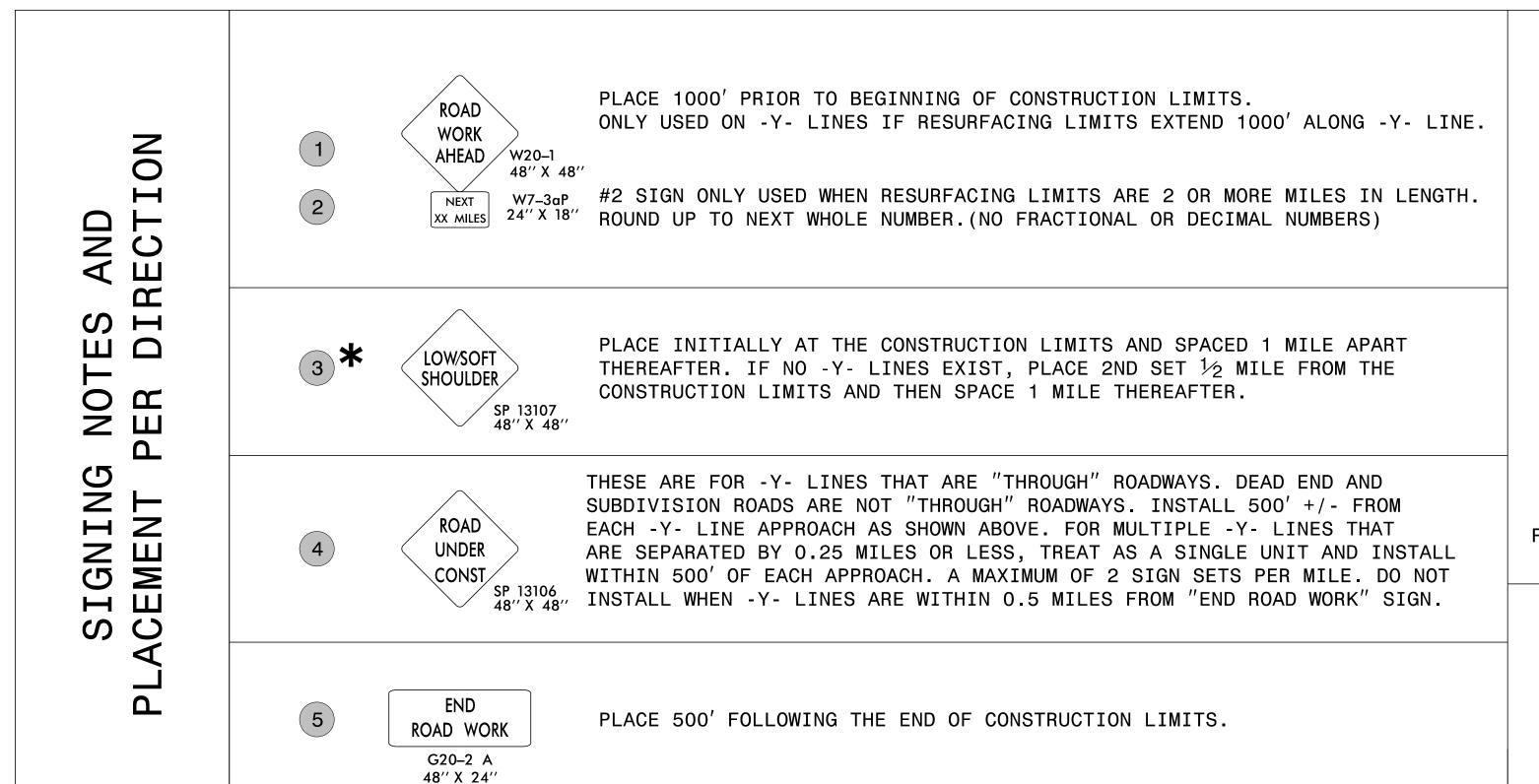
LEGEND

├─ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW

### MAINLINE (-L-) SIGNING

# -Y- LINE SIGNING



# 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.

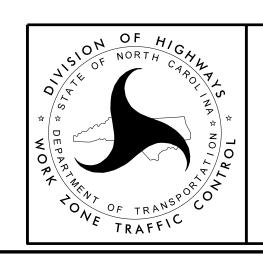




PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.

## \* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)

SUBSTITUTE LOW/SOFT SHOULDER SIGNS BY ALTERNATING THE FOLLOWING TWO SIGNS: STARTING WITH "UNMARKED PAVEMENT AHEAD" (SP 06026) FOLLOWED BY "LOOSE GRAVEL" (W8-7).

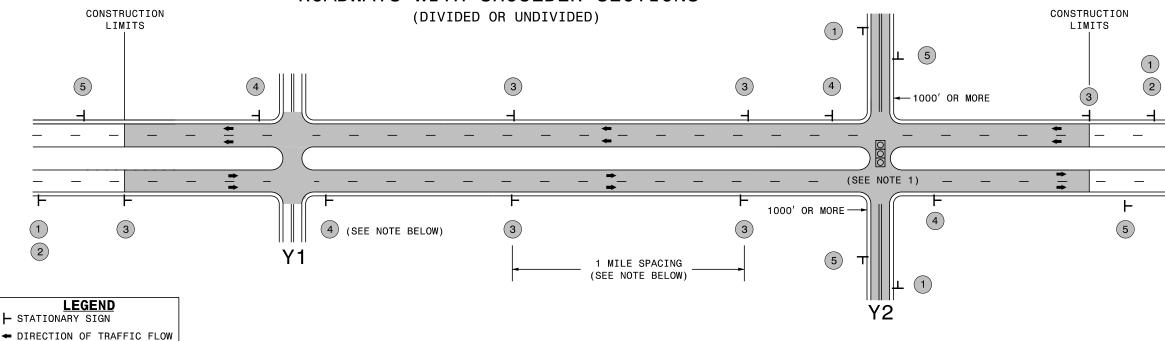


RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS

.WZTC\Apps\WorkZoneGeneral\ExternalWebPage\DesRes\Documents\Resurfacing\Resurnaarrett

6/3/2014 S:\TMU\WZ1

## SIGNING FOR RURAL AND SUBURBAN MULTI-LANE ROADWAYS WITH SHOULDER SECTIONS



### 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. WORK NOTES AND PER DIRECTION AHEAD / W20-1 #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 LOWSOFT (3) THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE SHOULDER CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER. SIGNING PLACEMENT P 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 UNDER 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. PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS. ROAD WORK G20-2 A 48" X 24"

### 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

#### NOTES:

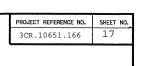
1) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.

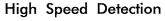


RESURFACING
ADVANCE WARNING SIGNS
FOR RURAL AND SUBURBAN
MULTI-LANE ROADWAYS
W/ SHOULDER SECTIONS
(DIVIDED OR UNDIVIDED)

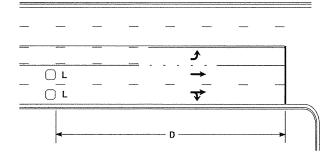
our lacting kousmesa lacting kousmonter since at a contract the state of the state of the state of the state of

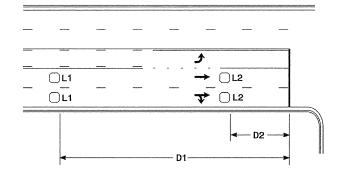
2/24/2014 S:\TMI\W7TC\Resurfactoa\20136





[≥40 mph (64 km/hr)]





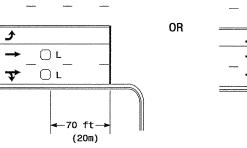
"Stretch" Operation

L1	2	D1	i	
	(m)	ft	(m)	ft
]	(25)	80	(75)	250
L2	(27)	90	(90)	300
	(30)	100	(110)	355
	(35)	110	(130)	420

= 6ft X 6ft (1.8m X 1.8m) Wired in series

2 = 6ft X 6ft (1.8m X 1.8m) Wired in series

Low Speed Detection [≼35 mph (56 km/hr)]



 $L = 6ft \ X \ 6ft \ (1.8m \ X \ 1.8m)$ Wired in series

L = 6ft X 40ft (1.8m X 12.0m)Quadrupole loop, wired separately

Speed Limit mph (km/hr) ft (m) 40 (64) 250 (75) 45 (72) 300 (90) 50 (80) 355 (110) 55 (88) 420 (130)

 $L = 6ft \times 6ft (1.8m \times 1.8m)$ Wired in series for TS1 Controllers Wired separately for TS2, 170, and 2070L Controllers

Volume Density Operation

Left Turn Lane Detection

Speed Limit

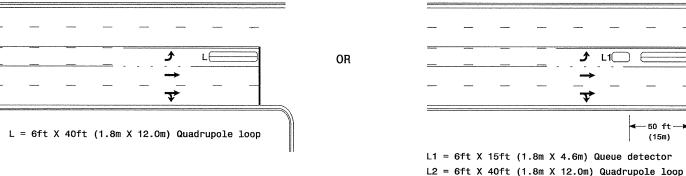
mph (km/hr)

40 (64)

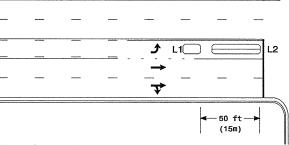
45 (72)

55 (88)

(80)



Presence Loop Detection

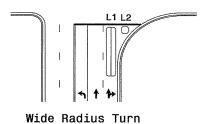


Queue Loop Detection

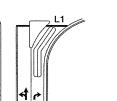
### Right Turn Lane Detection

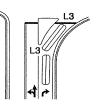
L1 = 6ft X 40ft (1.8m X 12.0m) Quadrupole loop L2 = 6ft X 6ft (1.8m X 1.8m) [Minimum] Presence loop Wired separately

L3 = 6ft X 20ft (1.8m X 6.0m) Quadrupole loop Wired in series



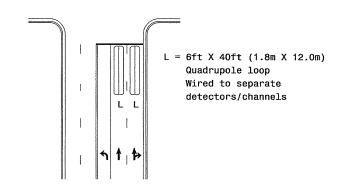
Standard Turn



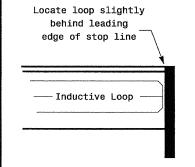


Channelized Turn

### Side Street Detection



### Presence Loop Placement at Stop Lines



Note:

Loop may be located in advance of stop line when stop line is greater than 15' (4.5m) from edge of intersecting roadway; or, when loop detects a permissive or protected/permissive left turn.

### Recommended Number of Turns

Single 6' X 6' (1.8m X 1.8m) loop (wired separately):

Length of Lead-in ft (m)	Number of Turns	
< 250 (75)	3	
250-375 (75-115)	4	
375-525 (115-160)	5	
> 525 (160)	6	

Quadrupole loops: Use 2-4-2 turns

6' X 15' (1.8m X 4.6m) Loops: Lead-in < 150' (45 m), use 2 turns Lead-in > 150' (45 m), use 3 turns



Typical Loop Locations

PLAN DATE: June 2006 REVIEWED BY: PREPARED BY: P L Alexander REVIEWED BY:

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### **NOTES**

- -OVERLAP SAW CUTS AT CORNERS AND INTERSECTION POINTS TO ENSURE UNIFORM SAW SLOT DEPTH.
- -MAINTAIN 12" SPACING BETWEEN LOOP WIRE TAIL SECTIONS.
- -WIRE LOOPS CONNECTED TO THE SAME DETECTOR IN SERIES.
- -LOCATE LOOPS IN CENTER OF LANES UNLESS OTHERWISE SHOWN ON PLANS.
- -USE A SERIES OF ONE INCH PIECES OF BACKER ROD SPACED ONE FOOT APART ALONG THE ENTIRE LENGTH OF THE FEEDER SLOT AND LOOP SAW SLOT.
- -CONSULT LOOP SEALANT MANUFACTURER TO DETERMINE CURING TIME REQUIRED PRIOR TO MILLING.

### SAW SLOT DEPTH CHART ASSUMING 2" MILLING DEPTH

DEPTH	NO.	OF '	WIRE	LA	/ERS
(IN)	2	3	4	5	6
SAW SLOT DEPTH	4.0	4.5	5.0	5.0	5.0
MINIMUM TOTAL ASPHALT DEPTH REQUIRED	5.0	5.5	6.0	6.0	6.0

### **LOOP WIRE TWISTING METHOD**

INCORRECT WAY TO TWIST WIRE



CORRECT WAY TO TWIST WIRE



