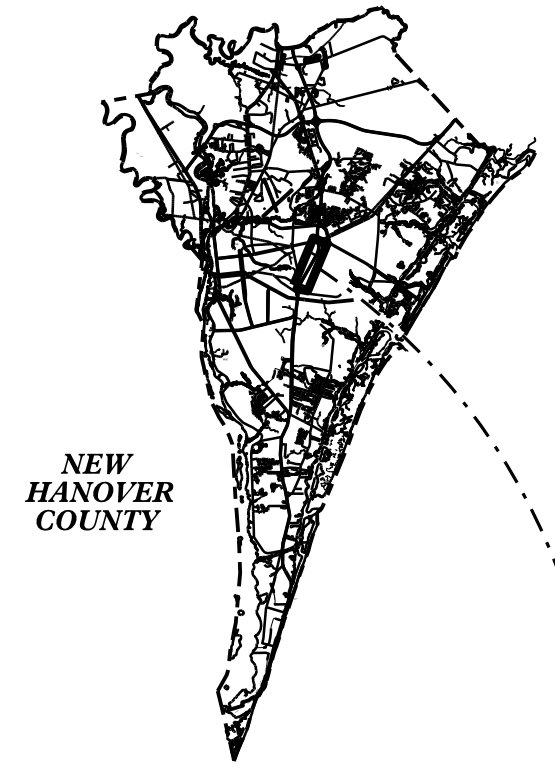


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 \$\$\$USERNAME\$\$\$

2017CPT.03.01.10651 & 36249.3622

CONTRACT: C203888

See Sheet 1-A For Index of Sheets



NEW HANOVER COUNTY

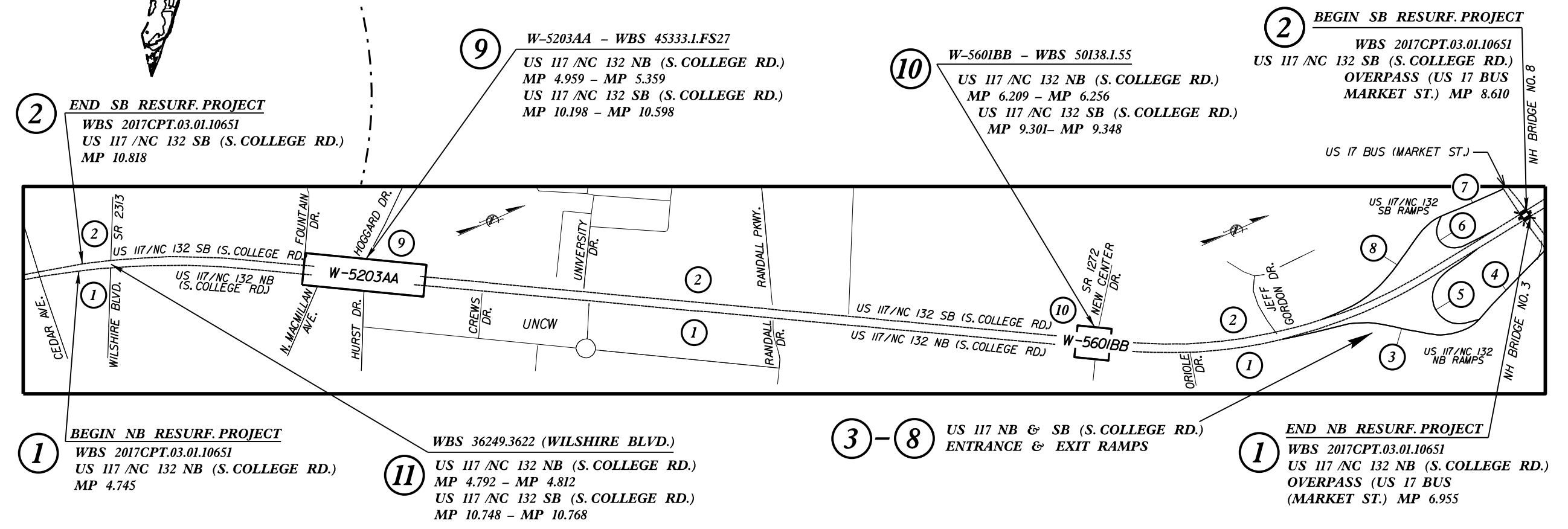
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

NEW HANOVER COUNTY

**LOCATION: US 117 /NC 132 NB (S. COLLEGE RD.) MP 4.742 TO MP 6.893
 & US 117 /NC 132 SB (S. COLLEGE RD.) MP 8.670 TO MP 10.818
 IN THE CITY OF WILMINGTON**

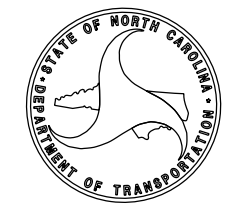
PART III

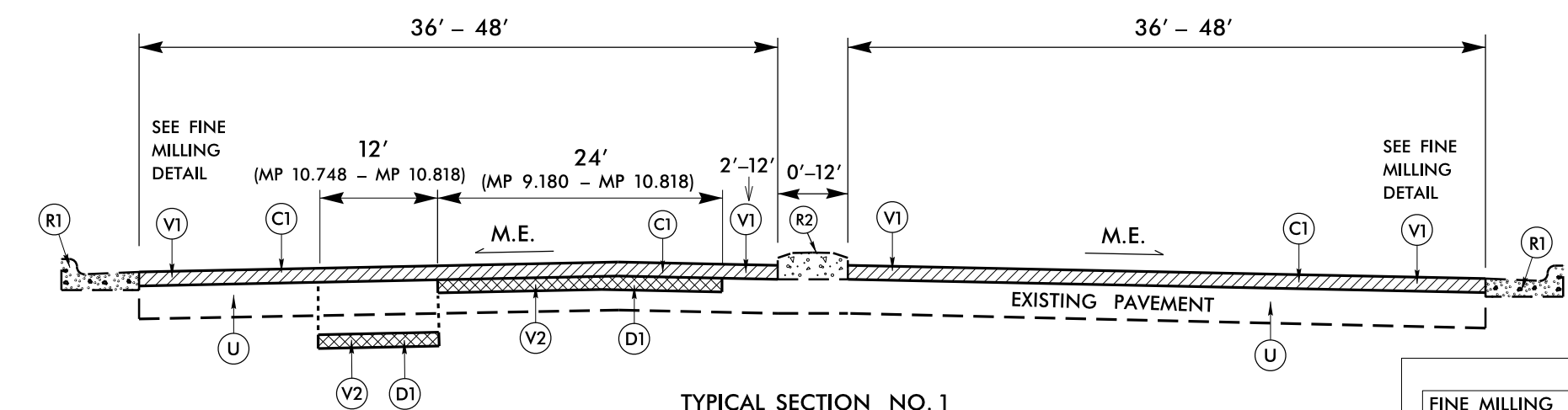
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2017CPT.03.01.10651, Etc.	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2017CPT.03.01.10651		CONST.	
36249.3622		CONST.	



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

2012 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE:	PROJECT ENGINEER
LETTING DATE:	MARY KIMMEL
AUGUST 16, 2016	PROJECT DESIGN TECHNICIAN
	NICK DREES
	PROJECT DESIGN TECHNICIAN

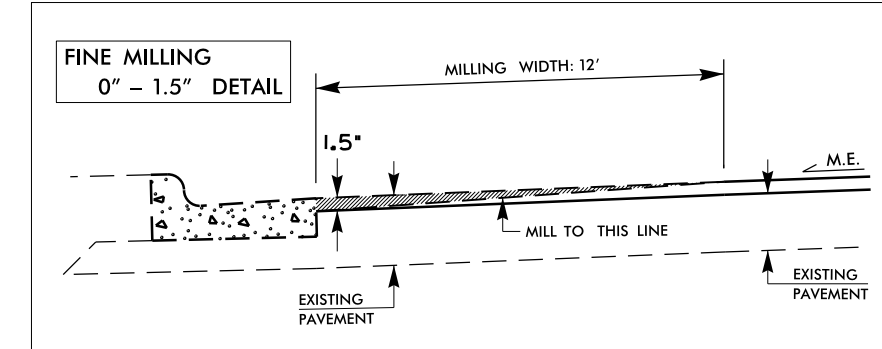




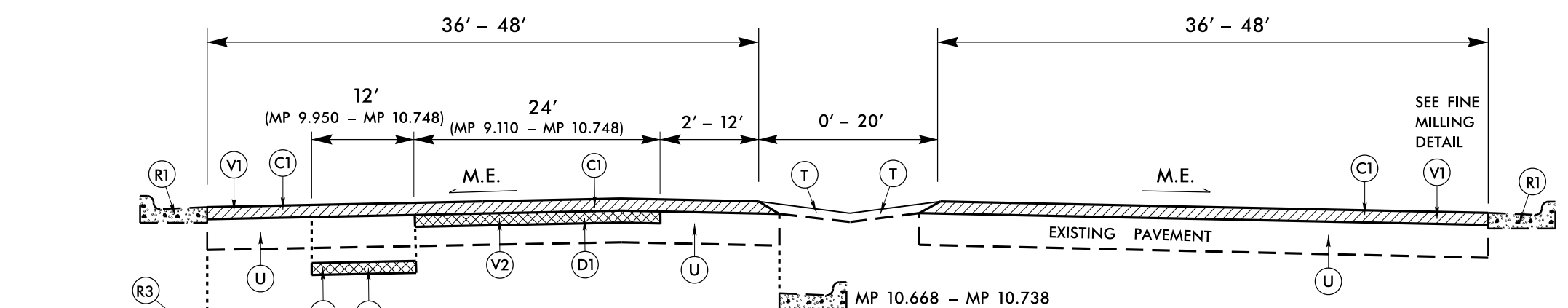
TYPICAL SECTION NO. 1

MAP NO. 2 (SB)
US 117 /NC 132 (S. COLLEGE RD.)
MP 9.180 - MP 9.301
MP 9.301 - MP 9.348 (SEE PART II: W-5601BB)
MP 9.348 - MP 9.898
MP 10.748 - MP 10.818

MAP NO. 1 (NB)
US 117 /NC 132 (S. COLLEGE RD.)
MP 4.745 - MP 4.812
MP 5.773 - MP 6.209
MP 6.209 - MP 6.256 (SEE PART II: W-5601BB)
MP 6.256 - MP 6.373



FINE MILLING 0" - 1.5" AT CURB AND CONCRETE MEDIAN ISLAND SECTIONS (NB & SB DIRECTION)



TYPICAL SECTION NO. 2

MP 9.110 - MP 9.180
MP 9.898 - MP 10.098

MAP NO. 2 (SB)
US 117 /NC 132 (S. COLLEGE RD.)
MP 9.110 - MP 9.180
MP 9.898 - MP 10.198
MP 10.198 - MP 10.598 (SEE PART I: W-5203AA)
MP 10.598 - MP 10.748

MAP NO. 1 (NB)
US 117 /NC 132 (S. COLLEGE RD.)
MP 4.812 - MP 4.959
MP 4.959 - MP 5.359 (SEE PART I: W-5203AA)
MP 5.359 - MP 5.773
MP 6.373 - MP 6.513

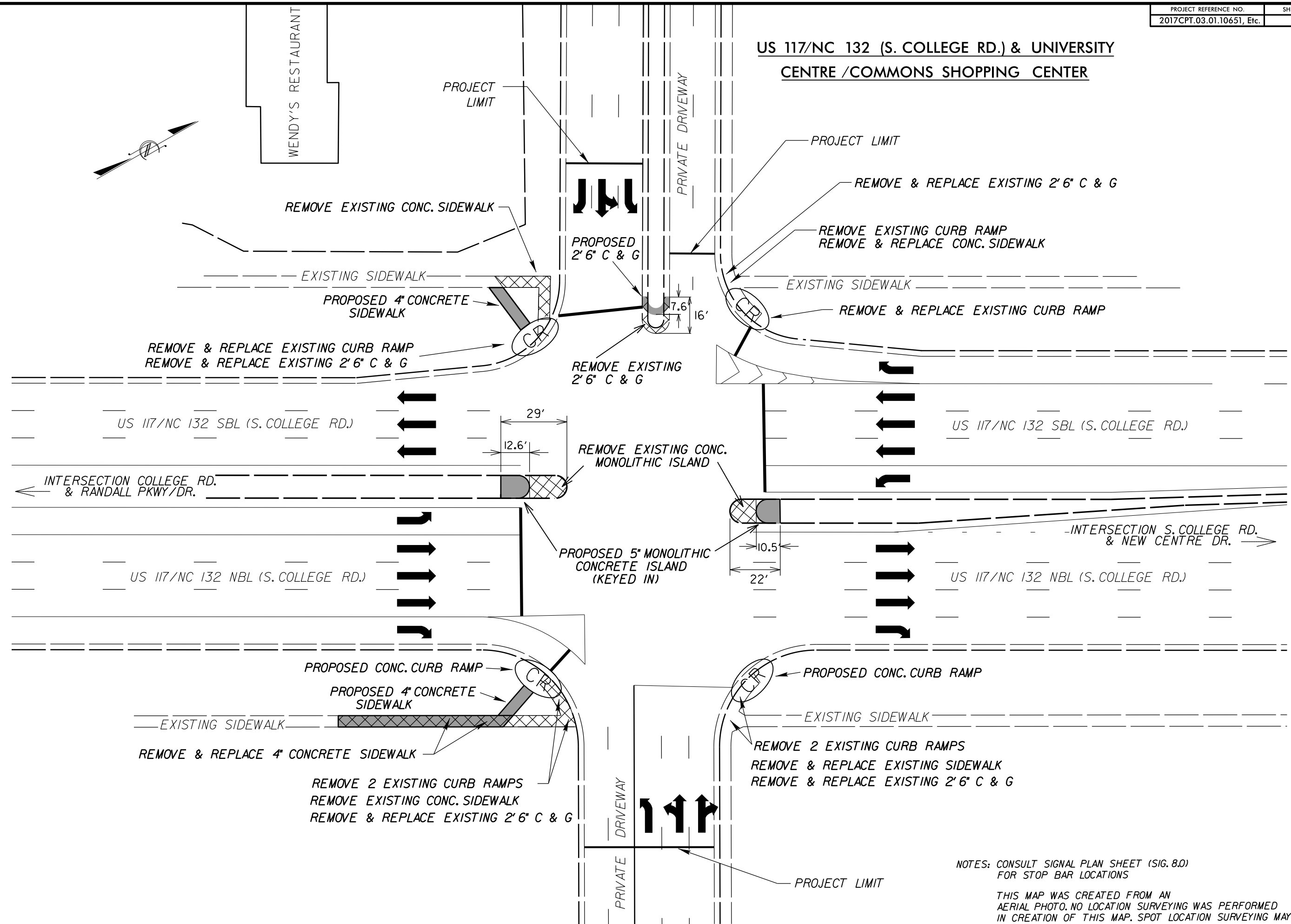
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.	R3	EXISTING CONCRETE 6" CURB	V2	MILLING ASPHALT PAVEMENT, 2½" DEPTH
D1	PROP. APPROX. 2½" DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ.YD.	T	AGGREGATE SHOULDER BORROW (ASB)	V3	MILLING ASPHALT PAVEMENT, 1½" DEPTH
R1	EXISTING CONCRETE 2'-6" CURB & GUTTER	U	EXISTING PAVEMENT		
R2	EXISTING CONCRETE MONOLITHIC ISLAND	V1	FINE MILLING ASPHALT PAVEMENT, 0" - 1½"		

8/17/09
 24-MAY-2016 10:38
 C:\Users\jwagner\Documents\Projects\Resurfacing Projects\New_Hanover_August_2016 (Combined with W-5203AA and W-5602BB)\Revised_Files\2017CPT.03.01.10651_Etc.Rdy_TYP_REV.dgn
 2017CPT.03.01.10651

REVISIONS

**US 117/NC 132 (S. COLLEGE RD.) & UNIVERSITY
CENTRE /COMMONS SHOPPING CENTER**



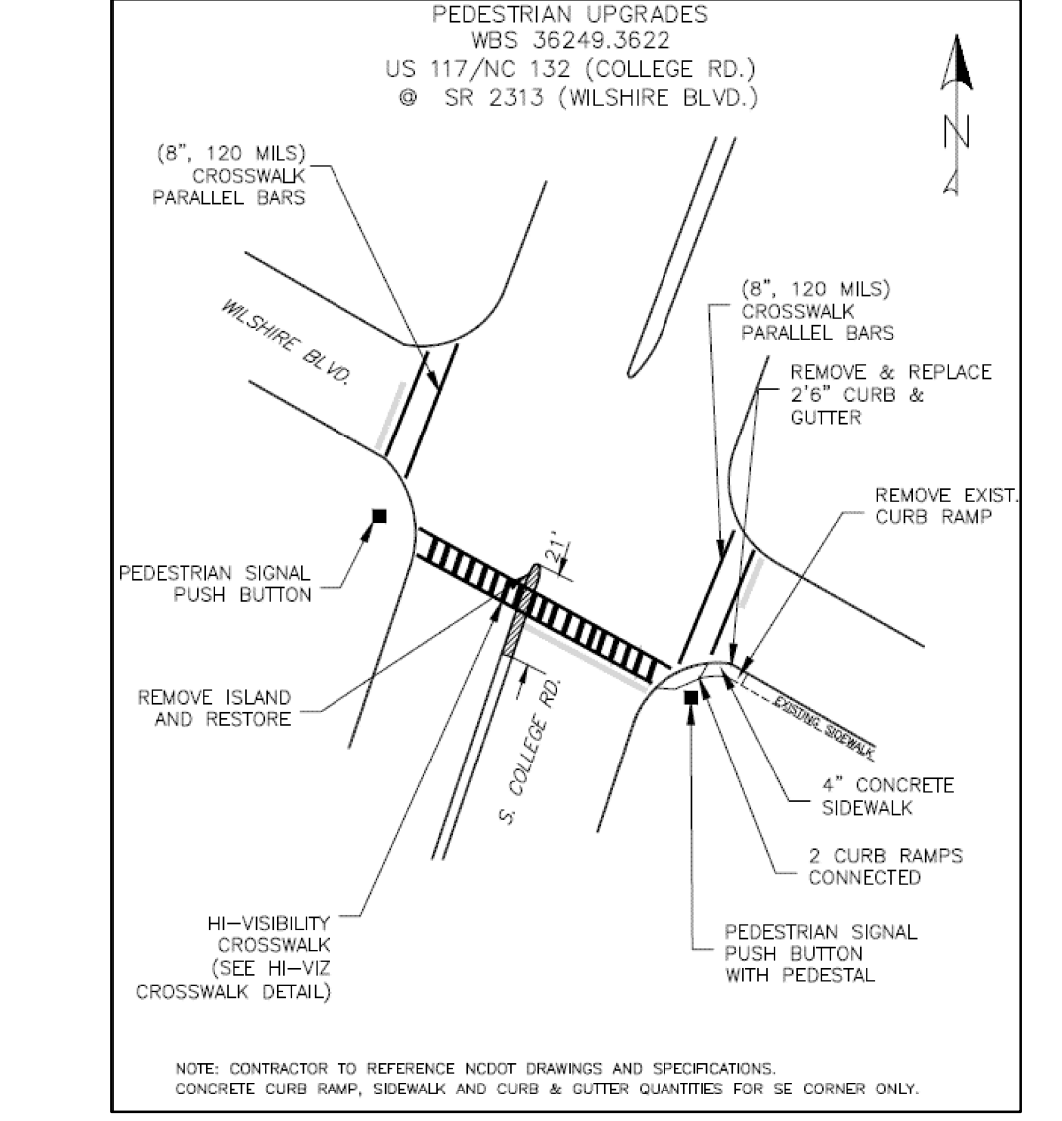
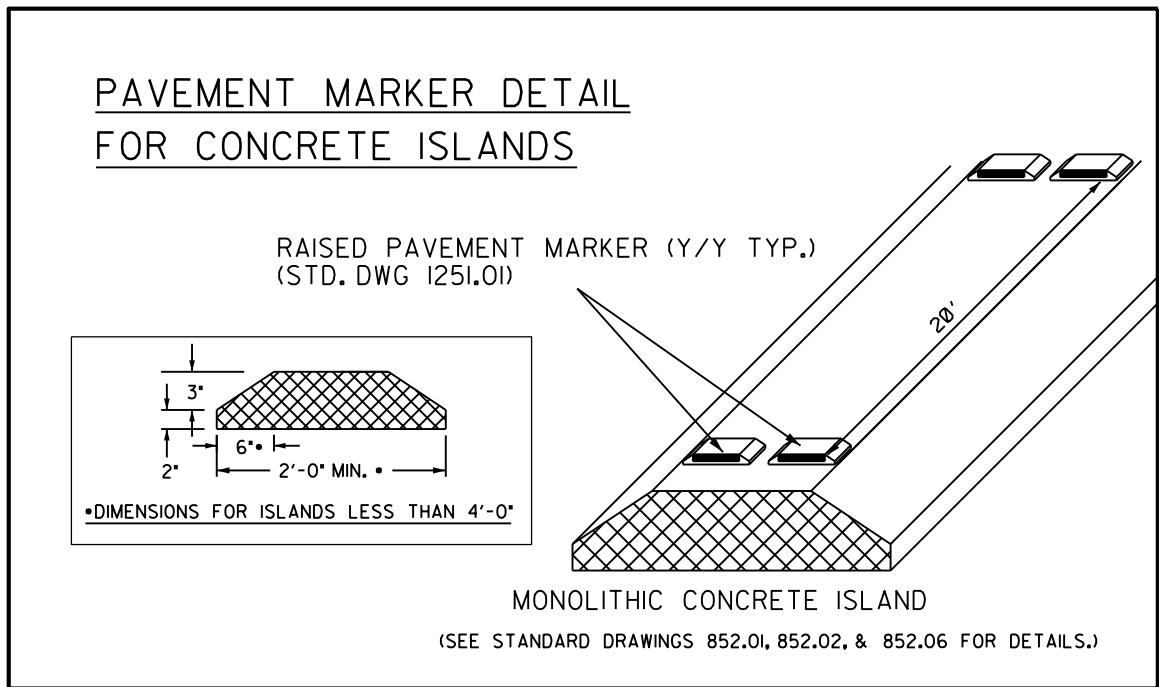
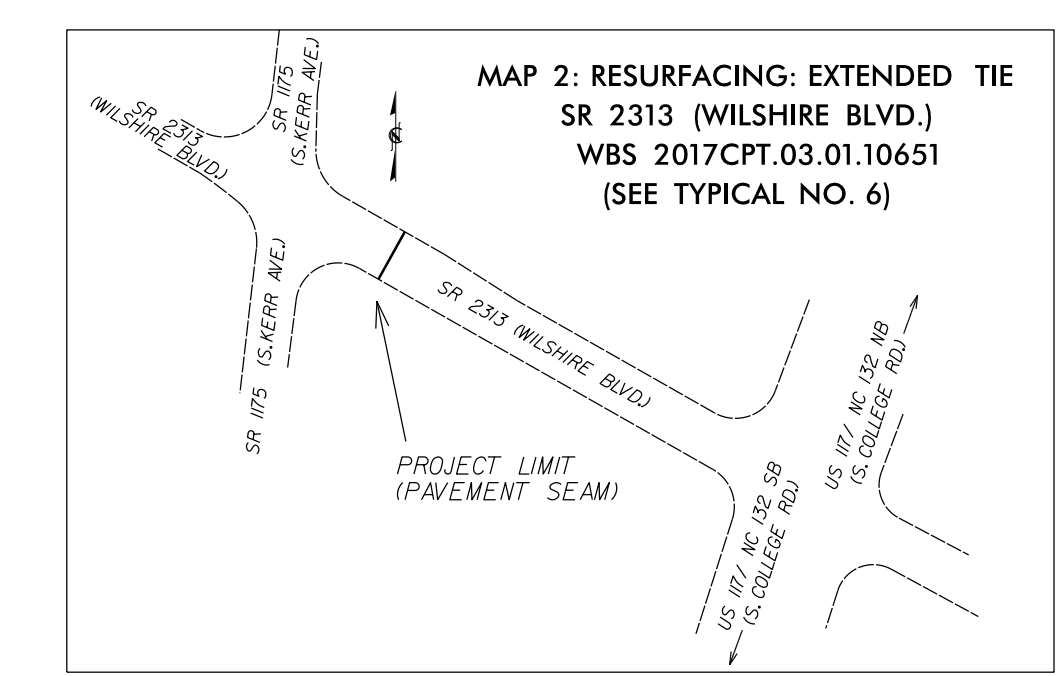
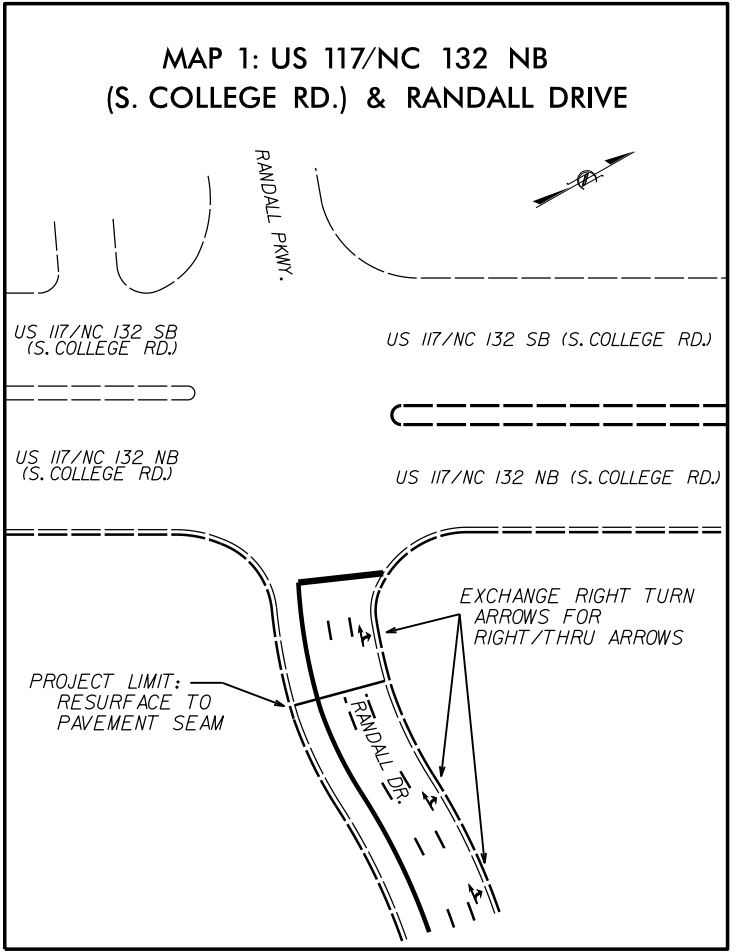
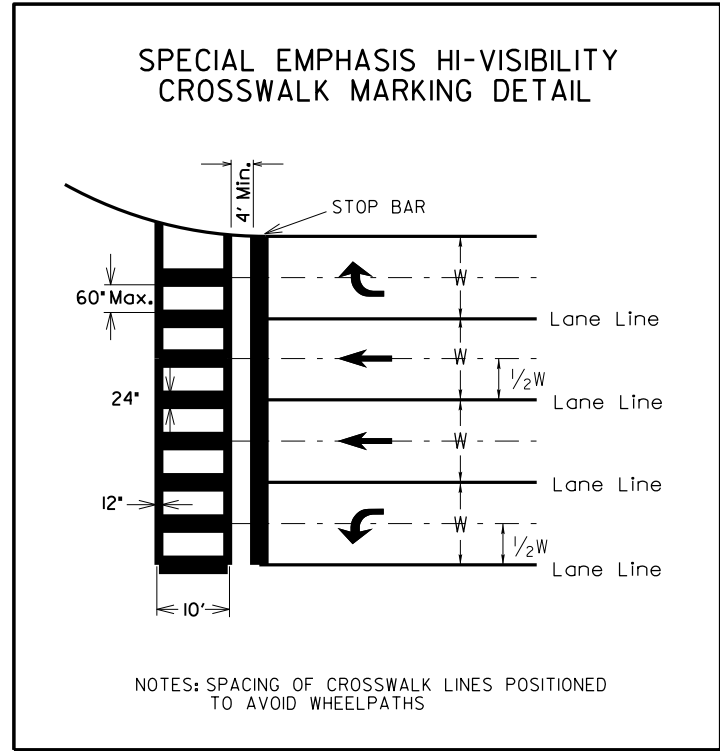
NOTES: CONSULT SIGNAL PLAN SHEET (SIG. 8.0)
FOR STOP BAR LOCATIONS

THIS MAP WAS CREATED FROM AN
AERIAL PHOTO. NO LOCATION SURVEYING WAS PERFORMED
IN CREATION OF THIS MAP. SPOT LOCATION SURVEYING MAY
BE PERFORMED AT A LATER DATE AS NEEDED.

REVISIONS
 02-MAY-2016 JHS
 S:\Division\Resurfacing\Resurfacing Data\2017
 Resurfacing\New Hanover Co\2017CPT.03.01.10651, Etc.\Intersection Details.dgn

8/17/99

RESURFACING, PEDESTRIAN IMPROVEMENTS & PAVEMENT MARKING/MARKER DETAILS



25-APR-2016 13:42
 S:\Division\Resurfacing\Resurfacing Data\2017
 Resurfacing\New Hanover_Co\2017CPT.03.01.10651.Etc\Intersection_Details.dgn
 \$\$\$SUSPENSE\$\$\$

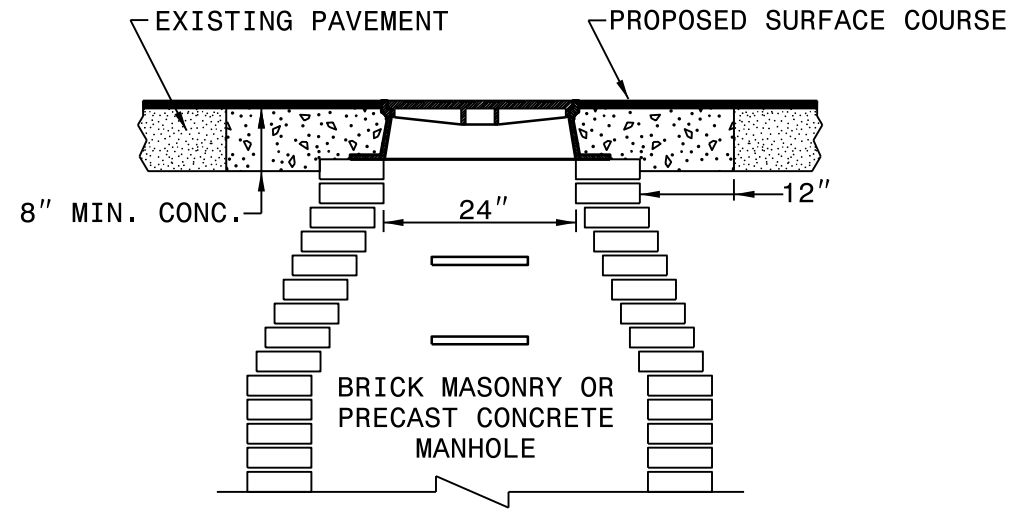
STATE OF
 NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
MANHOLE AND VALVE BOX ADJUSTMENTS

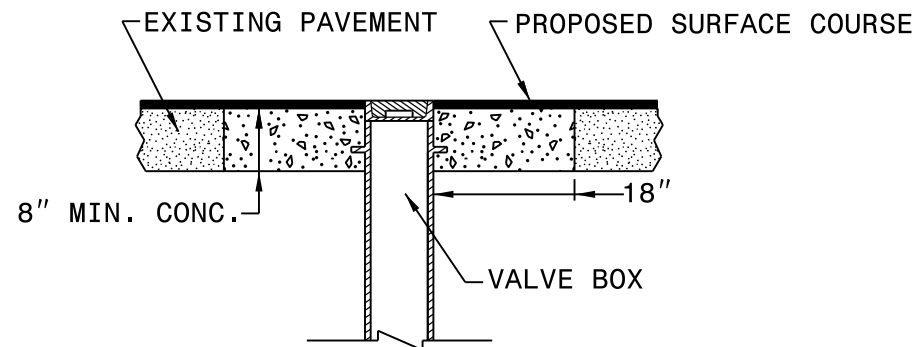
SHEET 1 OF 1
840D55

GENERAL NOTES:

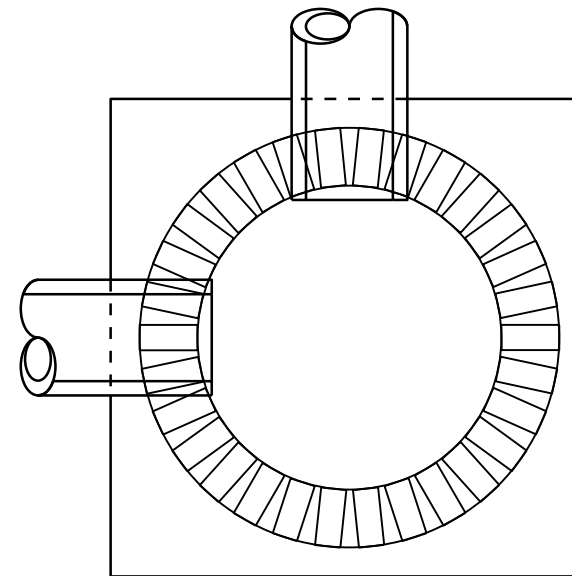
1. USE RAPID SET GROUT, MORTAR, OR CONCRETE THAT WILL TAKE FULL SET AND BECOME LOAD BEARING WITHIN SIXTY MINUTES OF PLACEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
2. REMOVE ALL FAULTY EXISTING BRICKWORK AND REPLACE WITH NEW BRICK MASONRY.
3. SHEER CUT EXCAVATION FOR THE ADJUSTMENT ON ALL SIDES.
4. FILL AREA BELOW 8" DEPTH WITH 78M OR NO. 57 CLEAN STONE.
5. MIX MORTAR TO NCDOT SPECIFICATIONS.
6. MORTAR JOINTS $\frac{1}{2}$ " +/- $\frac{1}{8}$ "
7. CONSTRUCT AN ASPHALT RAMP IN ACCORDANCE WITH SECTION 858-3 OF THE 2012 STANDARD SPECIFICATIONS.



MANHOLE CONCRETE ENCASEMENT



VALVE BOX CONCRETE ENCASEMENT



ELEVATION VIEW

PLACE BRICK ACCORDING TO ELEVATION VIEW

ENGLISH DETAIL DRAWING FOR
MANHOLE AND VALVE BOX ADJUSTMENTS

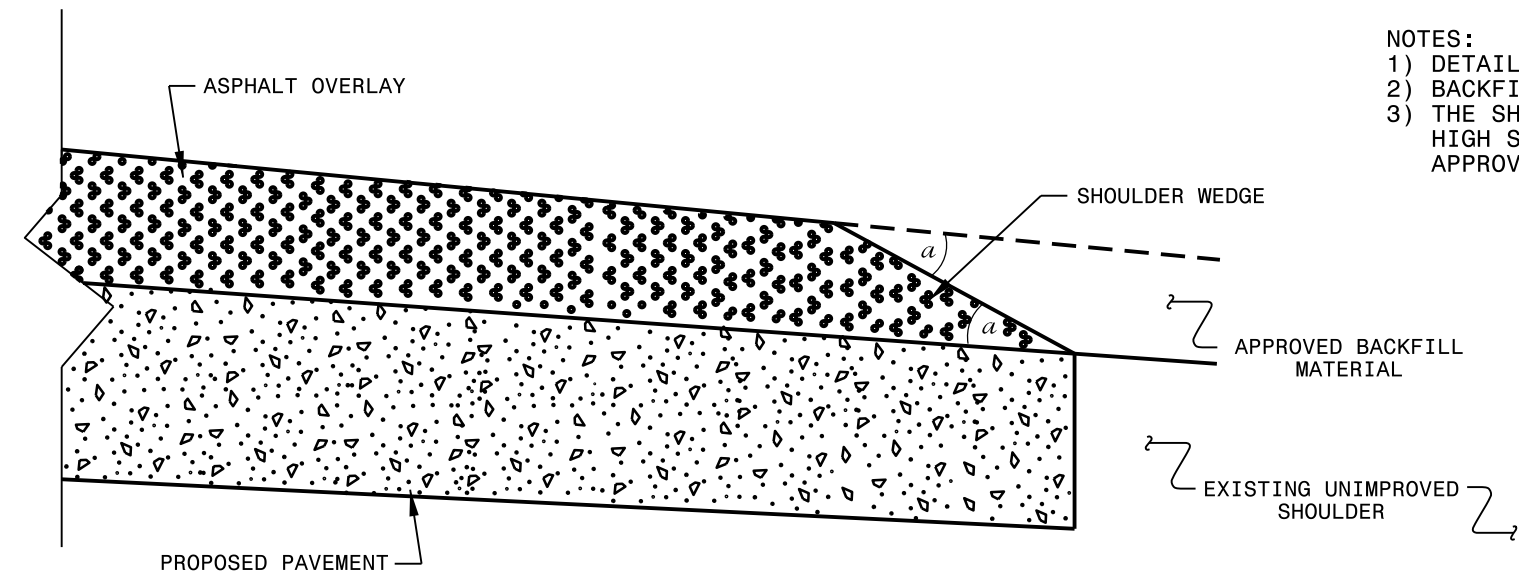
SHEET 1 OF 1
840D55

REVISIONS

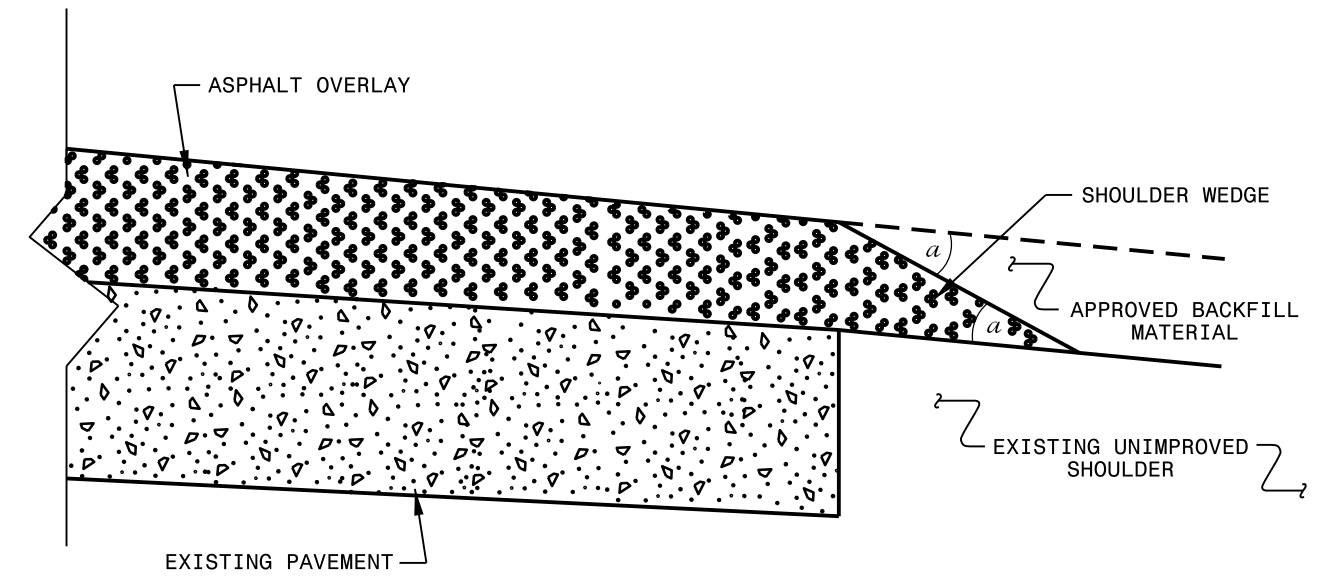
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 \$\$\$SUSFRNAME\$\$\$

8/17/99

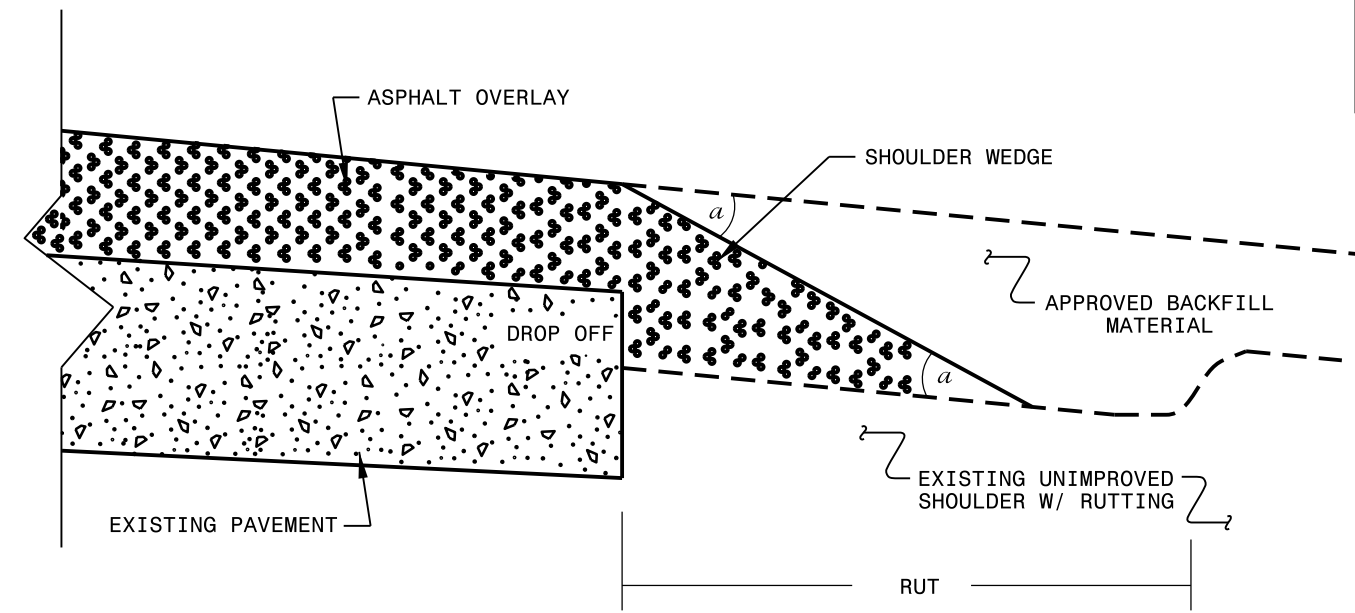
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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



SHOULDER WEDGE DETAIL
(Resurfacing Projects w/ NO Widening)

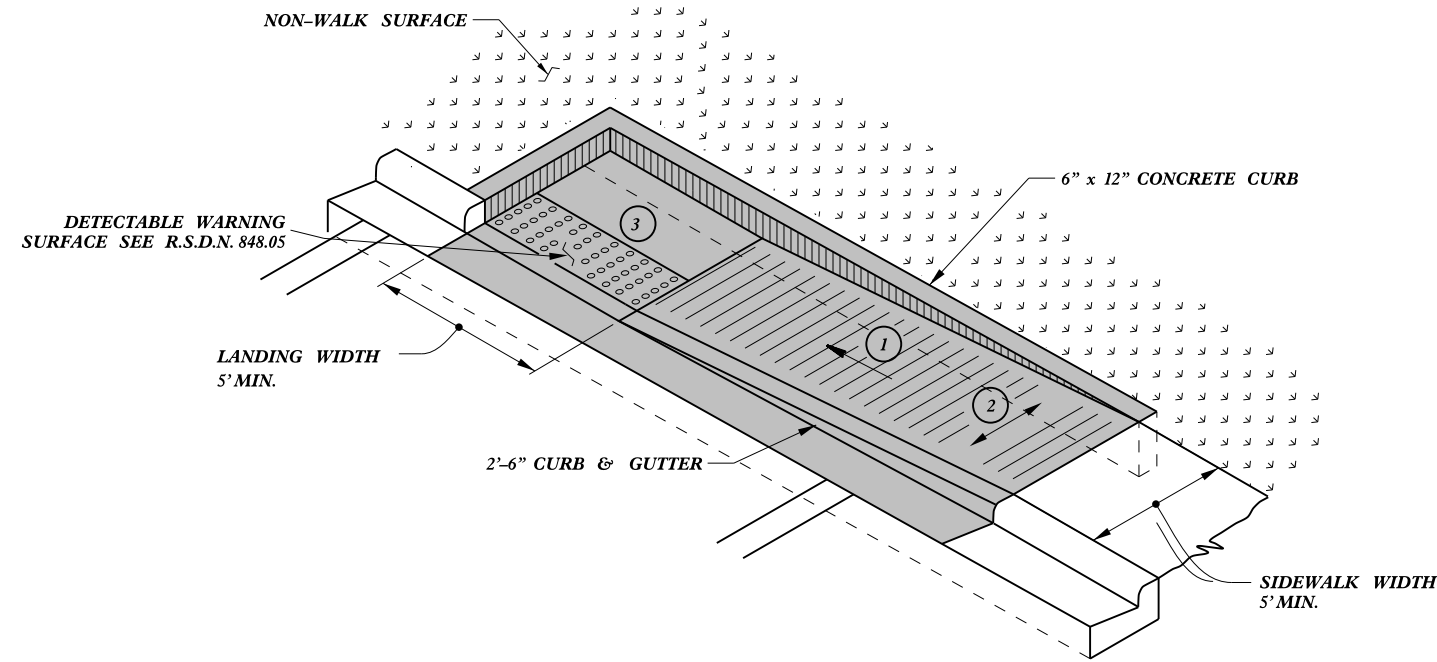


SHOULDER WEDGE DETAIL
(Resurfacing Adjacent to Rutted Shoulder)

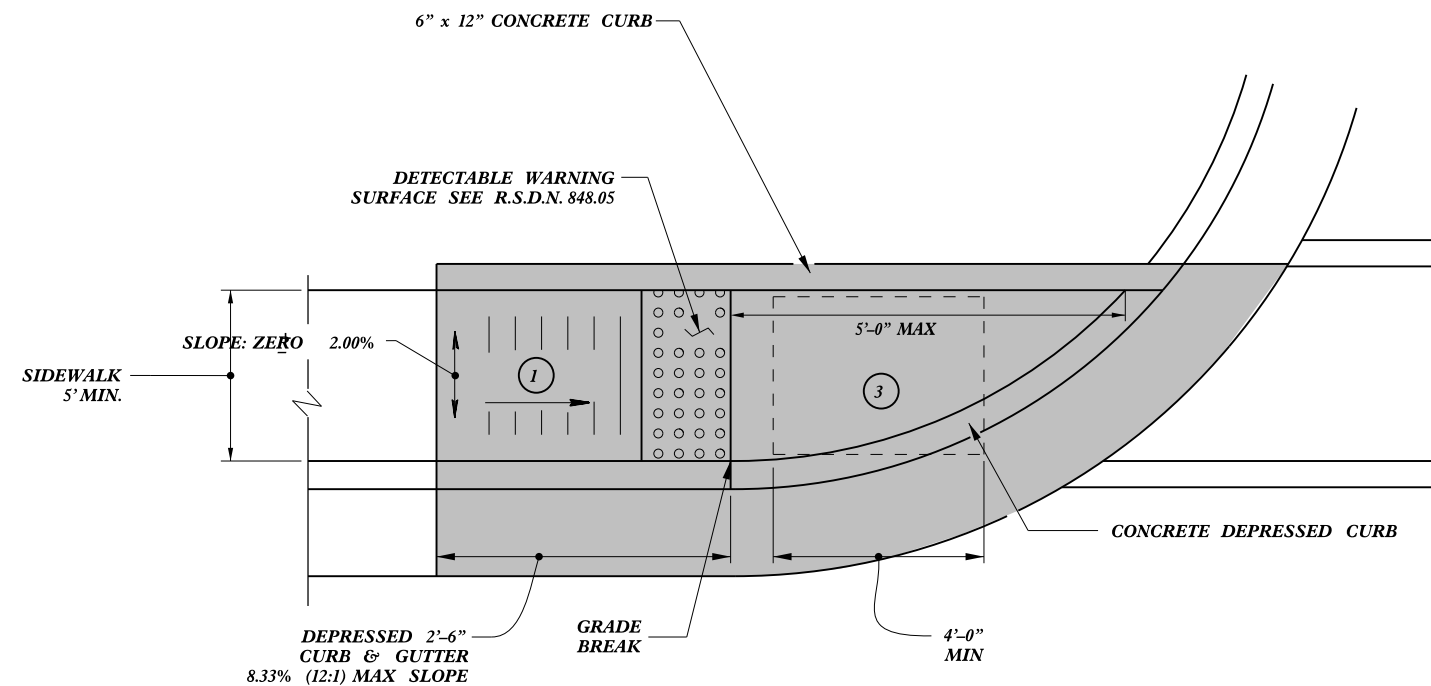
- SHOULDER WEDGE ANGLE = 30°

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: 2/2/16
CHECKED BY:	DATE:
FILE SPEC.: susr/details/stand/shoulderwedgedetail.dgn	

I:\MAY-2016_09\03
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 \$\$\$USERNAME\$\$\$



TYPE 1A



TYPE 1

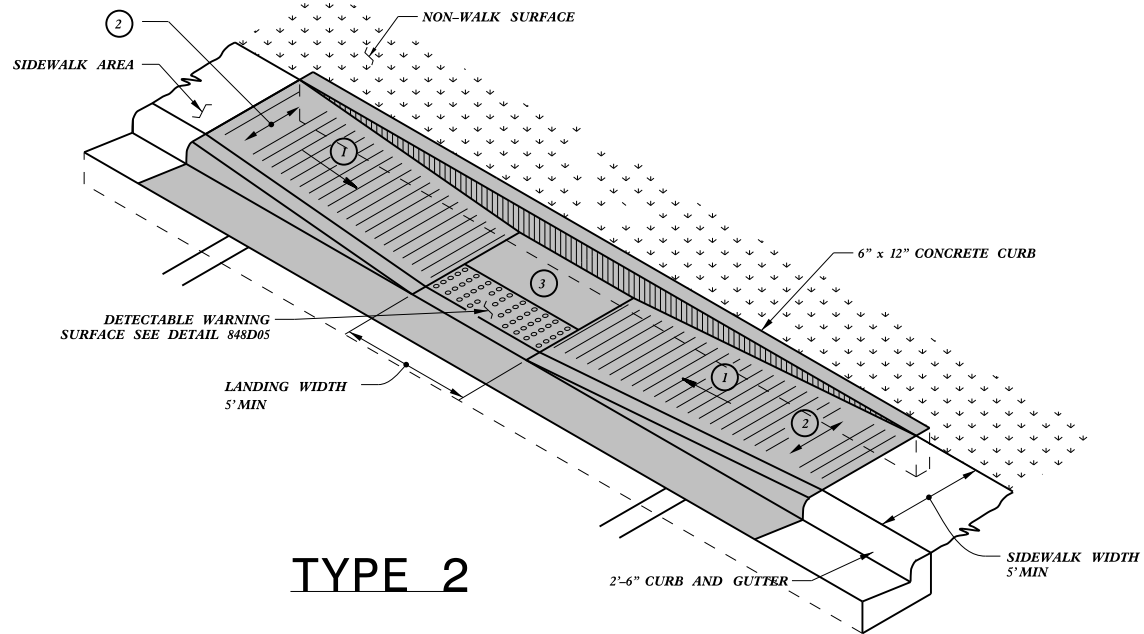
- ① 8.33% (12:1) MAX RAMP SLOPE
- ② CROSS SLOPE: 2.00%
- ③ CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

PAY LIMITS FOR CURB RAMP

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: sstds/2012CurbRamp/CurbRampDetails.dwg	

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

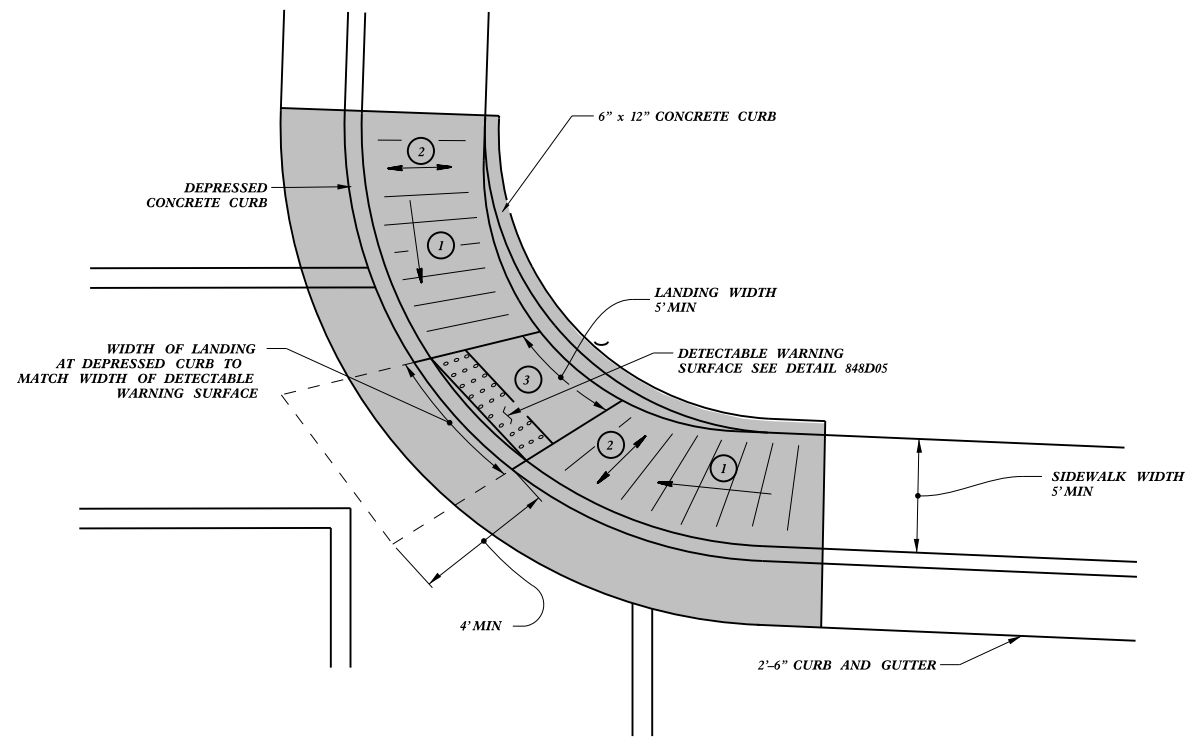
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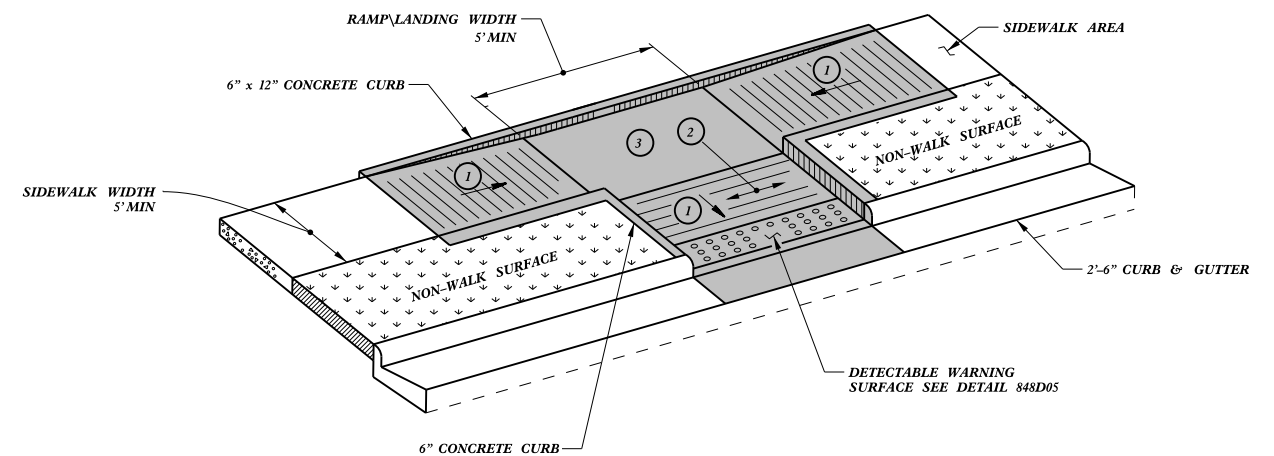
TYPE 2

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 2A

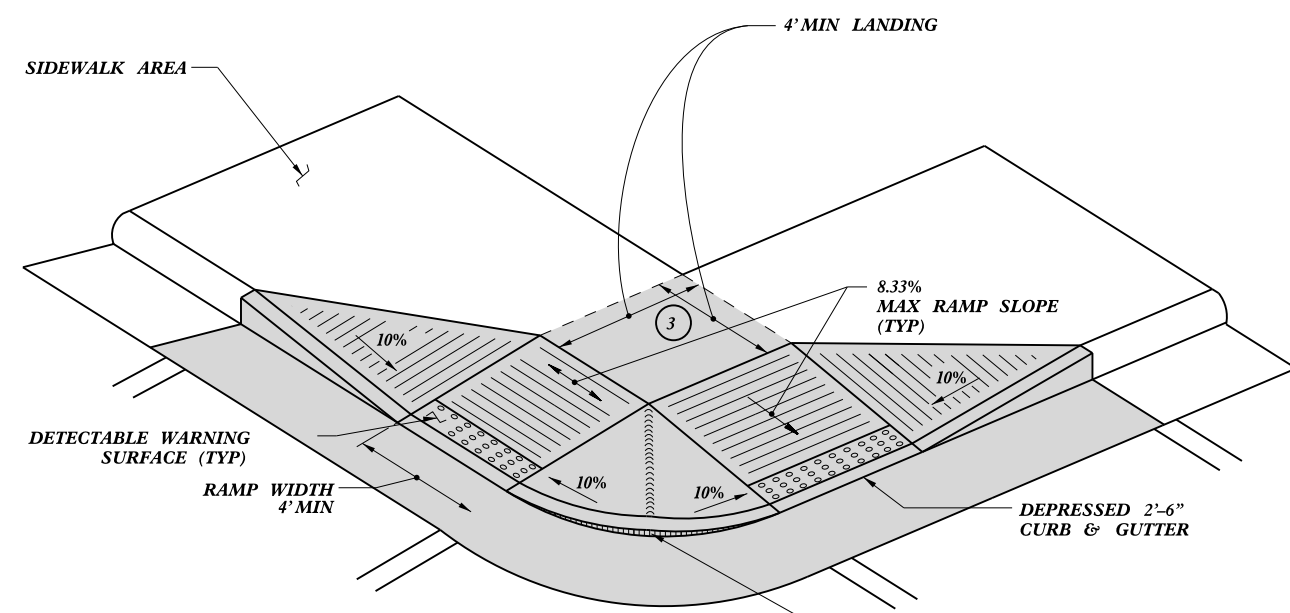


TYPE 3

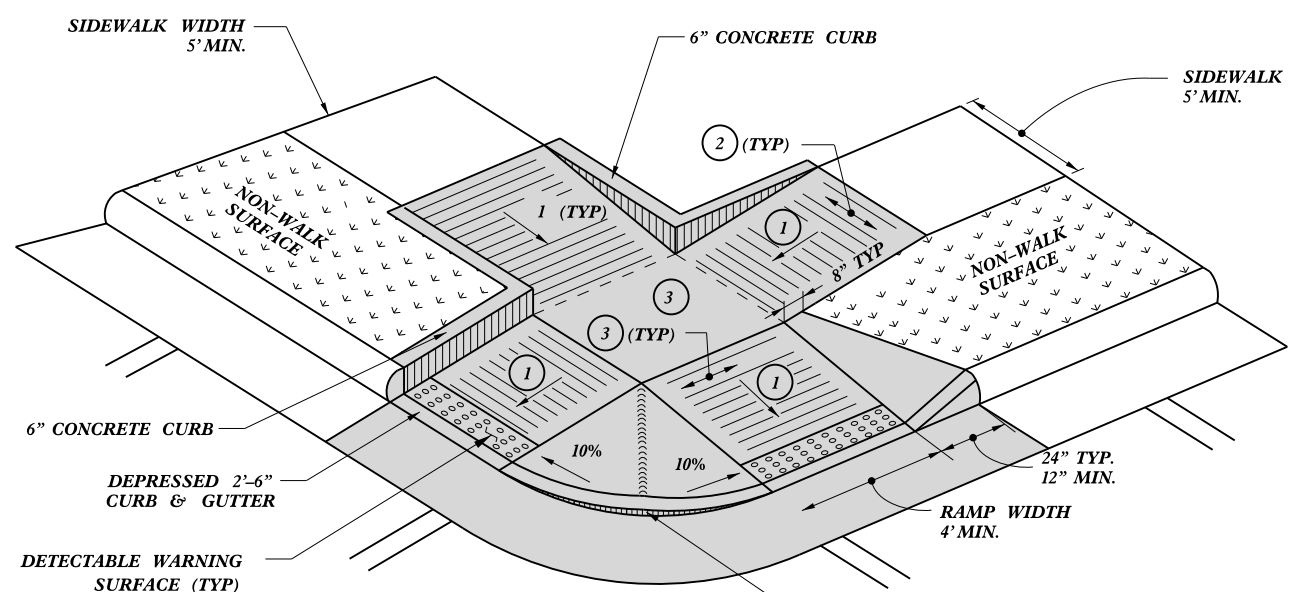
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
Parallel Ramps	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC: sstds/2012CurbRamp/CurbRampDetails.dwg	

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

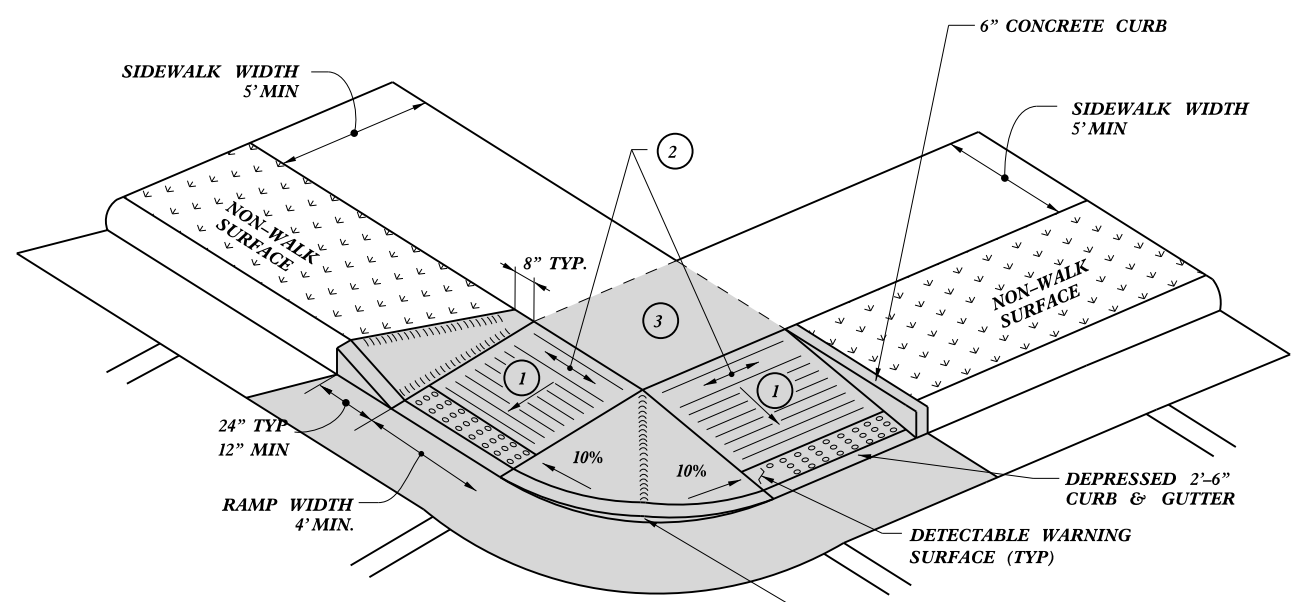
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TYPE 4



TYPE 5



TYPE 4A

PAY LIMITS FOR CURB RAMP

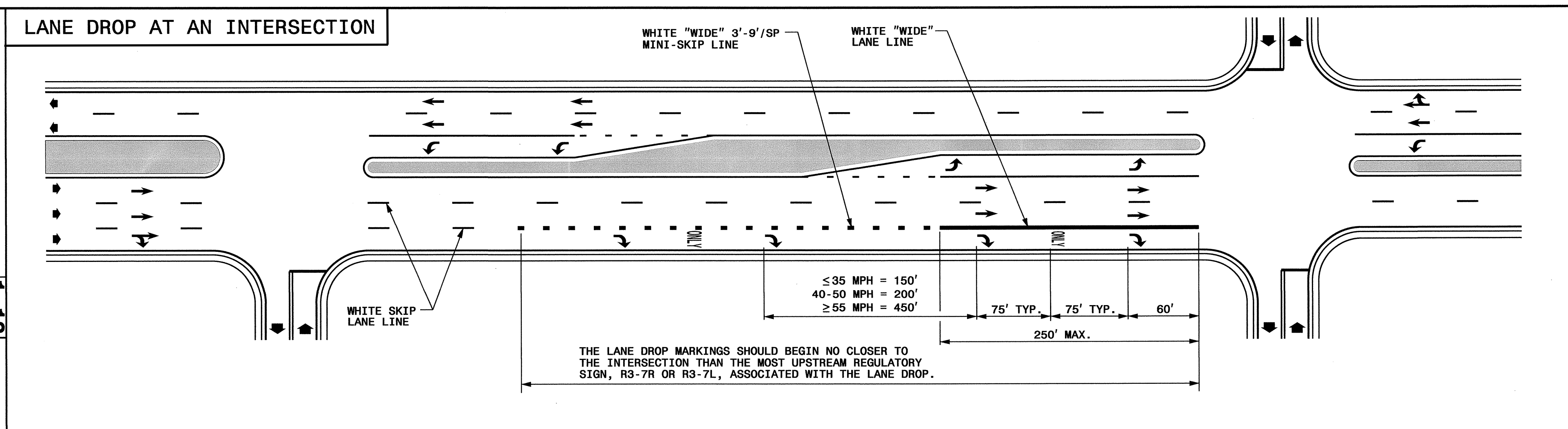
- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
Shared Landing	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC: sstds/2012CurbRamp/CurbRampDetails.dwg	

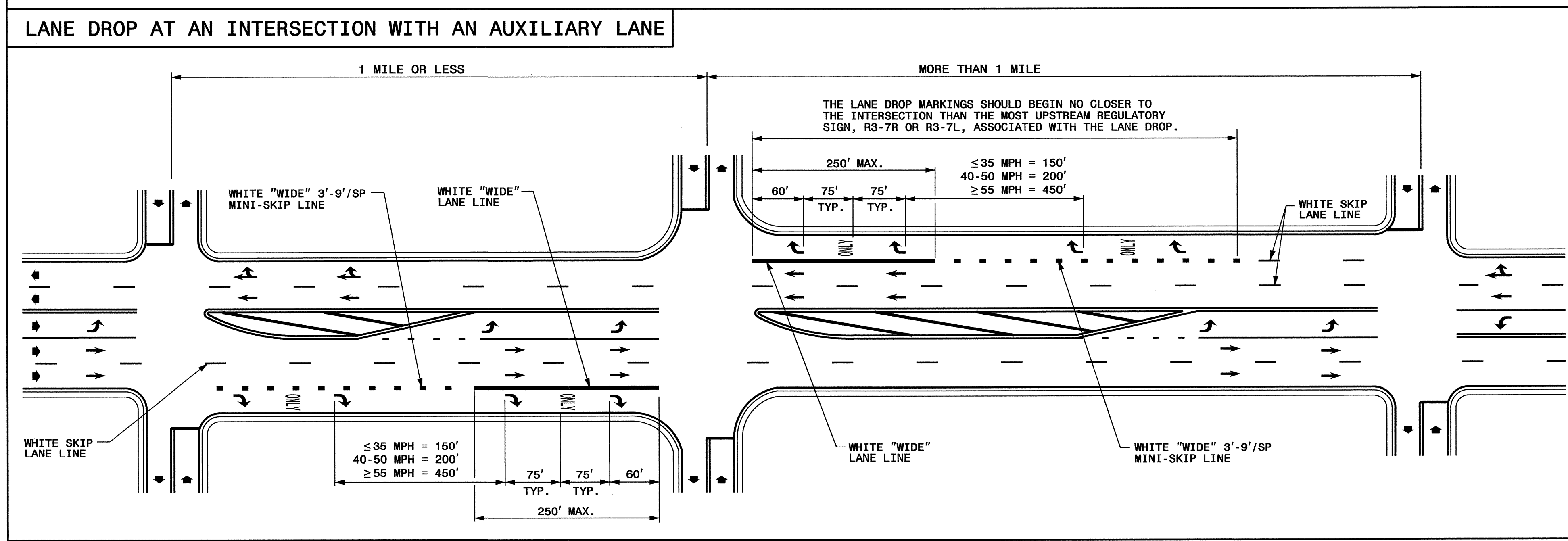
REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

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

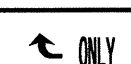
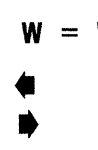


ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
LANE DROPS



- GENERAL NOTES:**
- 1- USE THE GUIDANCE SHOWN ON THE ABOVE DETAILS IN CONJUNCTION WITH INTERSECTION GUIDANCE SHOWN ON ROADWAY STANDARD DRAWING 1205.04.
 - 2- LANE LINES INDICATED AS "WIDE" SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.

LEGEND

W = WIDTH OF TRAVEL LANE	 ONLY PAVEMENT MARKING SYMBOLS & CHARACTERS
 DIRECTION OF TRAFFIC FLOW	

SHEET 1 OF 3
1205D06

SHEET 1 OF 3
1205D06

**REVISED PAVEMENT MARKING
ROADWAY STANDARD DRAWING**

08-MAR-2012 11:09 C:\Users\Standard\Drawings\Standard Drawings\2012 Standard Drawings\PM\2012 Standard Drawings\1205D06.dwg Revised 9-14-11 Sealed.dwg

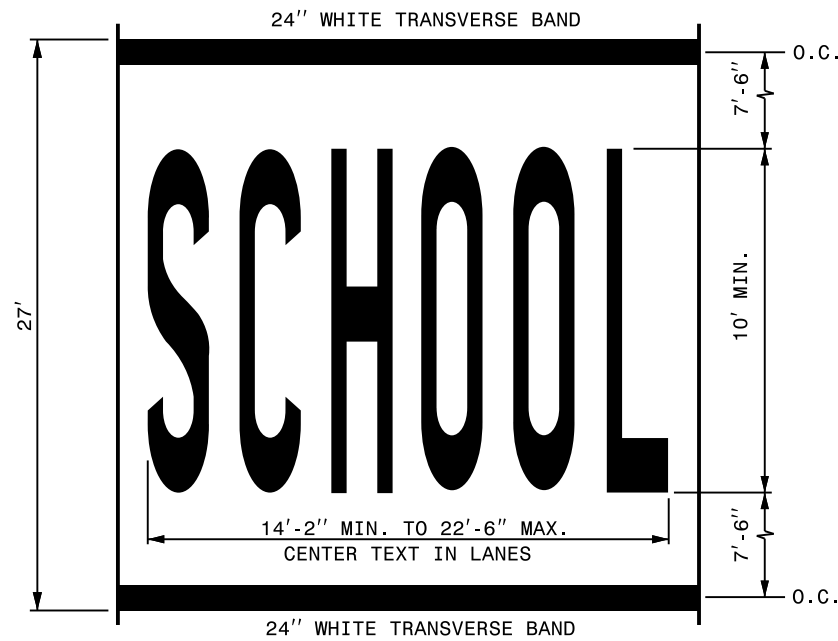
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
SYMBOLS AND WORD MESSAGES

REVISED 9/14/11
SHEET 3 OF 8
1205D08

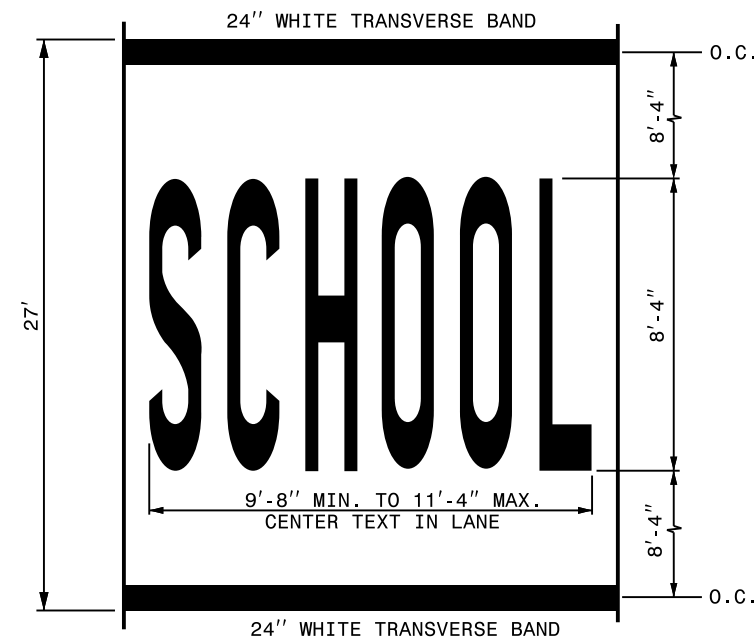
MULTI-LANE WIDTH "SCHOOL"



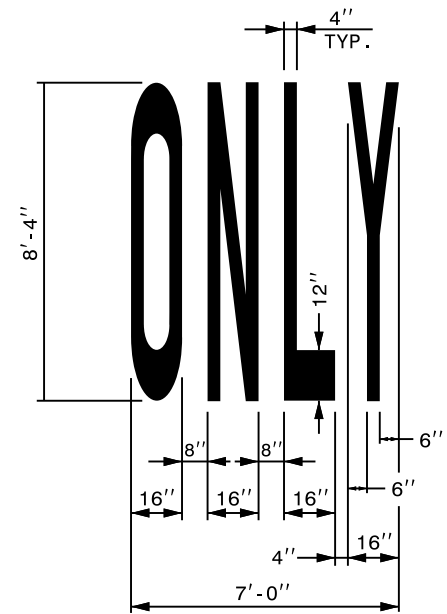
LETTER HEIGHT = 10' MIN.
LETTER WIDTH = 20"
SPACING = 10" MIN./30" MAX. (USE EQUAL SPACING BETWEEN LETTERS)

NOTE: THE TWO-LANE PAVEMENT MARKING DIMENSIONS OF "SCHOOL" SHOWN IN PART 7 OF THE MUTCD MAY ALSO BE USED.

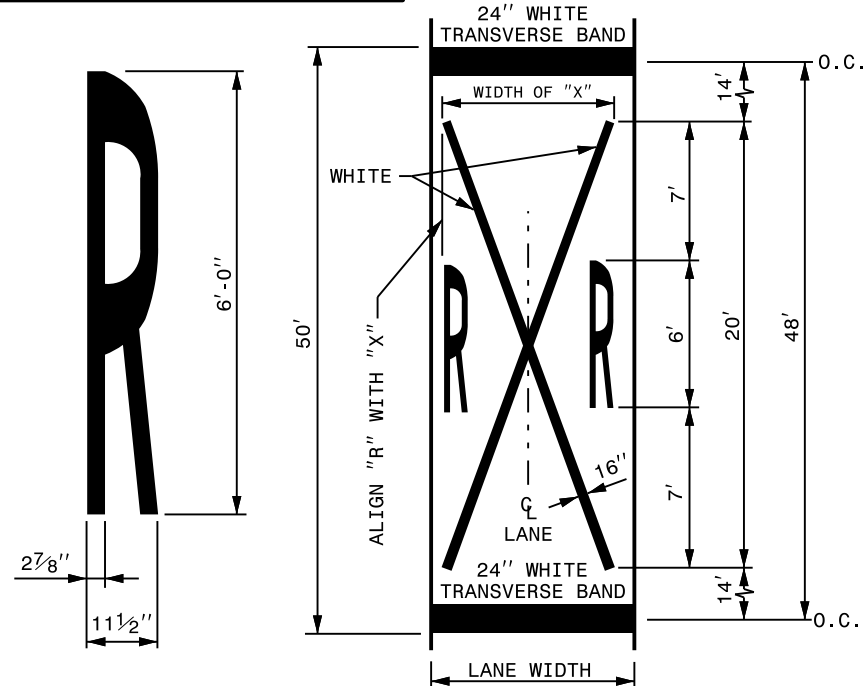
SINGLE LANE WIDTH "SCHOOL"



LETTER HEIGHT = 8'-4"
LETTER WIDTH = 16"
SPACING = 4" MIN./8" MAX. (USE EQUAL SPACING BETWEEN LETTERS)



RAILROAD RXR SYMBOL



LANE WIDTH (FEET)	WIDTH OF "X" (FEET)
8' ≤ W ≤ 9'	7'
9' < W ≤ 12'	8'
W > 12'	10'

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.

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
SYMBOLS AND WORD MESSAGES

REVISED 9/14/11
SHEET 3 OF 8
1205D08

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:
CHECKED BY: DATE:
FILE SPEC.: s:\oel\12 Stds to Special Details\560d01

PROJECT NO.	SHEET NO.
2017CPT.03.01.10651, Etc.	15

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	AGGREGATE SHOULDER BORROW TON	SHOULDER RECONST. SMI	2 1/2" MILLING SY	1 1/2" MILLING SY	INC. MILLING SY	INT. COURSE, 119.0B TONS	SURFACE COURSE, S9.5B TONS	ASPHALT BINDER FOR PLANT MIX TON	ASPHALT PLANT MIX, PAVEMENT REPAIR TON	PATCHING EXISTING PAVEMENT (FULL DEPTH) TON	PATCHING EXISTING PAVEMENT (MILL) TON	FINE MILLING (0"-1.5") SY	2'-6" CONCRETE CURB & GUTTER LF
2017CPT.03.01.10651	NewHanover	1 - 10	US 117 / NC 132 (COLLEGE RD.)	(TRAFFIC CONTROL/LIGHTING)	N/A			NO	NO	N/A														
TOTAL FOR MAP NO. 0																								
2017CPT.03.01.10651	New Hanover	1	US 117 / NC 132 NB (COLLEGE RD.)	FROM .05 MILES PAST CEDAR AVE. TO US 17 (MARKET STREET BRIDGE)	1 - 3	3 - 4	2WD	NO	NO	1.763	36 - 48	20	1.02			500		4,445	267.00	10	25	70	13,338	
TOTAL FOR MAP NO. 1																								
2017CPT.03.01.10651	NewHanover	2	US 117 / NC 132 SB (COLLEGE RD.)	FROM US 17 (MARKET STREET BRIDGE) TO .05 MILES FROM CEDAR AVE.	1 - 3, 6	3 - 4	2WD	NO	NO	1.763	36 - 48	20	1.02	11,942	2,800	500	1,945	4,923	389.00	10	25	75	11,466	30
TOTAL FOR MAP NO. 2																								
2017CPT.03.01.10651	NewHanover	3	US 117/ NC 132 NB EXIT RAMP	FROM 117NB TO MAP 4 (MP 0.000 - 0.175)	4	1	2WD	NO	NO	0.175	24	5	0.35			50		218	13.00			5		
TOTAL FOR MAP NO. 3																								
2017CPT.03.01.10651	New Hanover	4	US 117/ NC 132 NB ENTRANCE/EXIT RAMP	FROM MARKET ST. TO MAPS 3&5 (MP 0.000 - .133)	6	3	2WD	NO	NO	0.133	60							414	25.00			5		
TOTAL FOR MAP NO. 4																								
2017CPT.03.01.10651	New Hanover	5	US 117/ NC 132 NB ENTRANCE RAMP	FROM MAP 4 TO US 117 NB (MP 0.000 - 0.109)	5	1	2WD	NO	NO	0.109	22	5	0.11		1,407			125	7.00			5		
TOTAL FOR MAP NO. 5																								
2017CPT.03.01.10651	New Hanover	6	US 117/ NC 132 SB EXIT RAMP	FROM 117SB TO MAP 7 (MP 0.000 - 0.063)	4	1	2WD	NO	NO	0.063	22	5	0.13					72	4.00			5		
TOTAL FOR MAP NO. 6																								
2017CPT.03.01.10651	New Hanover	7	US 117/ NC 132 SB ENTRANCE/EXIT RAMP	FROM MAPS 6&8 TO MARKET ST. (MP 0.000 - 0.078)	6	3	2WD	NO	NO	0.078	60				2,746			243	15.00		5	5		
TOTAL FOR MAP NO. 7																								
2017CPT.03.01.10651	New Hanover	8	US 117/ NC 132 SB ENTRANCE RAMP	FROM MAP 7 TO US 117 SB (MP 0.000 - 0.161)	4	1	2WD	NO	NO	0.161	24	5	0.32			50		201	12.00			5		
TOTAL FOR MAP NO. 8																								
2017CPT.03.01.10651	New Hanover	9	W-5203AA (RESURF QYTS ONLY)	SB FROM MP 10.198 TO MP 10.598 & NB FROM MP 4.959 TO MP 5.359	SEE W-5203AA PLANS (PART I)	3	MD	NO	NO	0.4	36			8,448			1,264	2,040	183.00	10			10,500	
TOTAL FOR MAP NO. 9																								
2017CPT.03.01.10651	New Hanover	10	W-5601BB (RESURF QYTS ONLY)	NB FROM MP 6.209 TO 6.256 & SB FROM MP 9.301 TO MP 9.348	SEE W-601BB PLANS (PART II)	3	MD	NO	NO	0.047	36			660			99	390	28.00				2,190	
TOTAL FOR MAP NO. 10																								
TOTAL FOR PROJ NO. 2017CPT.03.01.10651										4.692		60	2.95	21,050	11,635	1,100	3,308	13,071	943.00	30	55	175	37,494	30
36249.3622	NewHanover	11	INTERSECTION OF US 117/ NC 132 (COLLEGE RD.) & SR 2313 (WILSHIRE BLVD.)	NB FROM MP 4.792 TO MP 4.812 & SB FROM MP 10.748 TO MP 10.768	N/A	3	MD	NO	NO	0.02	36													
TOTAL FOR MAP NO. 11																								
TOTAL FOR PROJ NO. 36249.3622										0.02														
GRAND TOTAL										4.712		60	2.95	21,050	11,635	1,100	3,308	13,071	943.00	30	55	175	37,494	30

PROJECT NO.	SHEET NO.
2017CPT.03.01.10651, Etc.	16

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	4" CONCRETE SIDEWALK SY	CONCRETE CURB RAMP EA	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN) SY	REMOVE AND REPLACE 4" CONCRETE SIDEWALK SY	REMOVE CONCRETE SIDEWALK SY	REMOVE MONOLITHIC CONCRETE ISLAND SY	REMOVE AND REPLACE MONOLITHIC CONC. ISLAND. SY	REMOVE & REPLACE 6" X 9" CONCRETE CURB LF	REMOVE AND REPLACE 2'6" CURB & GUTTER LF	REMOVE 2'6" CURB AND GUTTER LF	REMOVE & REPLACE CONCRETE CURB RAMP EA	REMOVE CURB RAMP EA	ADJ. OF DROP INLET EA	
2017CPT.03.01.10651	NewHanover	1 - 10	US 117 / NC 132 (COLLEGE RD.)	(TRAFFIC CONTROL/LIGHTING)	N/A			NO	NO	N/A															
TOTAL FOR MAP NO. 0										N/A															
2017CPT.03.01.10651	New Hanover	1	US 117 / NC 132 NB (COLLEGE RD.)	FROM .05 MILES PAST CEDAR AVE. TO US 17 (MARKET STREET BRIDGE)	1 - 3	3 - 4	2WD	NO	NO	1.763	36 - 48	27	2	16	36	8.00	36.00		10	185.00		19	7	1	
TOTAL FOR MAP NO. 1										1.763		27	2	16	36	8.00	36.00		10	185.00		19	7	1	
2017CPT.03.01.10651	NewHanover	2	US 117 / NC 132 SB (COLLEGE RD.)	FROM US 17 (MARKET STREET BRIDGE) TO .05 MILES FROM CEDAR AVE.	1 - 3, 6	3 - 4	2WD	NO	NO	1.763	36 - 48	25		13	18	23.00	28.00	10	10	211.00	42.00	13	5	2	
TOTAL FOR MAP NO. 2										1.763		25		13	18	23.00	28.00	10	10	211.00	42.00	13	5	2	
2017CPT.03.01.10651	NewHanover	3	US 117/ NC 132 NB EXIT RAMP	FROM 117NB TO MAP 4 (MP 0.000 - 0.175)	4	1	2WD	NO	NO	0.175	24														
TOTAL FOR MAP NO. 3										0.175															
2017CPT.03.01.10651	New Hanover	4	US 117/ NC 132 NB ENTRANCE/EXIT RAMP	FROM MARKET ST. TO MAPS 3&5 (MP 0.000 - .133)	6	3	2WD	NO	NO	0.133	60														
TOTAL FOR MAP NO. 4										0.133															
2017CPT.03.01.10651	New Hanover	5	US 117/ NC 132 NB ENTRANCE RAMP	FROM MAP 4 TO US 117 NB (MP 0.000 - 0.109)	5	1	2WD	NO	NO	0.109	22														
TOTAL FOR MAP NO. 5										0.109															
2017CPT.03.01.10651	New Hanover	6	US 117/ NC 132 SB EXIT RAMP	FROM 117SB TO MAP 7 (MP 0.000 - 0.063)	4	1	2WD	NO	NO	0.063	22														
TOTAL FOR MAP NO. 6										0.063															
2017CPT.03.01.10651	New Hanover	7	US 117/ NC 132 SB ENTRANCE/EXIT RAMP	FROM MAPS 6&8 TO MARKET ST. (MP 0.000 - 0.078)	6	3	2WD	NO	NO	0.078	60									15.00				1	
TOTAL FOR MAP NO. 7										0.078										15.00				1	
2017CPT.03.01.10651	New Hanover	8	US 117/ NC 132 SB ENTRANCE RAMP	FROM MAP 7 TO US 117 SB (MP 0.000 - 0.161)	4	1	2WD	NO	NO	0.161	24														
TOTAL FOR MAP NO. 8										0.161															
2017CPT.03.01.10651	New Hanover	9	W-5203AA (RESURF QYTS ONLY)	SB FROM MP 10.198 TO MP 10.598 & NB FROM MP 4.959 TO MP 5.359	N/A	3	MD	NO	NO	0.4	36														
TOTAL FOR MAP NO. 9										0.4															
2017CPT.03.01.10651	New Hanover	10	W-5601BB (RESURF QYTS ONLY)	NB FROM MP 6.209 TO 6.256 & SB FROM MP 9.301 TO MP 9.348	N/A	3	MD	NO	NO	0.047	36														
TOTAL FOR MAP NO. 10										0.047															
TOTAL FOR PROJ NO. 2017CPT.03.01.10651										4.692		52	2	29	54	31.00	64.00	10	20	411.00	42.00	32	12	4	
36249.3622	NewHanover	11	INTERSECTION OF US 117/ NC 132 (COLLEGE RD.) & SR 2313 (WILSHIRE BLVD.)	NB FROM MP 4.792 TO MP 4.812 & SB FROM MP 10.748 TO MP 10.768	N/A	3	MD	NO	NO	0.02	36	20	2	10			30.00			30.00		1	1		
TOTAL FOR MAP NO. 11										0.02		20	2	10			30.00			30.00		1	1		
TOTAL FOR PROJ NO. 36249.3622										0.02		20	2	10			30.00			30.00		1	1		
GRAND TOTAL										4.712		72	4	39	54	31.00	94.00	10	20	441.00	42.00	33	13	4	

PROJECT NO.	SHEET NO.
2017CPT.03.01.10651, Etc.	17

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA	ADJ. OF MONUMENTS EA	GR ANCHOR UNITS, TYPE CAT-1 EA	GR ANCHOR UNITS, TYPE 350 EA	GR ANCHOR UNITS, TYPE M-350 EA	REMOVE AND REPLACE EXISTING GUARDRAIL LF	PORTABLE LIGHTING LS	TEMP. SILT FENCE LF	STONE FOR EC CLASS B TON	SEDIMENT CONTROL STONE TON	MATTING FOR EROSION CONTROL SY	1/4" HARDWARE CLOTH LF	WATTLE LF	SEED & MULCHING AC			
2017CPT.03.01.10651	NewHanover	1-10	US 117 / NC 132 (COLLEGE RD.)	(TRAFFIC CONTROL/LIGHTING)	N/A			NO	NO	N/A									1										
TOTAL FOR MAP NO. 0										N/A									1										
2017CPT.03.01.10651	New Hanover	1	US 117 / NC 132 NB (COLLEGE RD.)	FROM .05 MILES PAST CEDAR AVE. TO US 17 (MARKET STREET BRIDGE)	1-3	3-4	2WD	NO	NO	1.763	36-48	4	1		1.00	2.00		350.00	*	83	21	21	10	41	20	0.50			
TOTAL FOR MAP NO. 1										1.763		4	1		1.00	2.00		350.00		83	21	21	10	41	20	0.50			
2017CPT.03.01.10651	NewHanover	2	US 117 / NC 132 SB (COLLEGE RD.)	FROM US 17 (MARKET STREET BRIDGE) TO .05 MILES FROM CEDAR AVE.	1-3,6	3-4	2WD	NO	NO	1.763	36-48	22	4	1	2.00	1.00		275.00	*	82	20	20	10	41	20	0.50			
TOTAL FOR MAP NO. 2										1.763		22	4	1	2.00	1.00		275.00		82	20	20	10	41	20	0.50			
2017CPT.03.01.10651	NewHanover	3	US 117/ NC 132 NB EXIT RAMP	FROM 117NB TO MAP 4 (MP 0.000 - 0.175)	4	1	2WD	NO	NO	0.175	24				1.00	1.00		300.00	*	35	9	9	10	18	10				
TOTAL FOR MAP NO. 3										0.175					1.00	1.00		300.00		35	9	9	10	18	10				
2017CPT.03.01.10651	New Hanover	4	US 117/ NC 132 NB ENTRANCE/EXIT RAMP	FROM MARKET ST. TO MAPS 3&5 (MP 0.000 - .133)	6	3	2WD	NO	NO	0.133	60								*										
TOTAL FOR MAP NO. 4										0.133																			
2017CPT.03.01.10651	New Hanover	5	US 117/ NC 132 NB ENTRANCE RAMP	FROM MAP 4 TO US 117 NB (MP 0.000 - 0.109)	5	1	2WD	NO	NO	0.109	22								*	35	1	1	10	18	20				
TOTAL FOR MAP NO. 5										0.109											35	1	1	10	18	20			
2017CPT.03.01.10651	New Hanover	6	US 117/ NC 132 SB EXIT RAMP	FROM 117SB TO MAP 7 (MP 0.000 - 0.063)	4	1	2WD	NO	NO	0.063	22								*	35	1	1	10	18	20				
TOTAL FOR MAP NO. 6										0.063											35	1	1	10	18	20			
2017CPT.03.01.10651	New Hanover	7	US 117/ NC 132 SB ENTRANCE/EXIT RAMP	FROM MAPS 6&8 TO MARKET ST. (MP 0.000 - 0.078)	6	3	2WD	NO	NO	0.078	60								*										
TOTAL FOR MAP NO. 7										0.078																			
2017CPT.03.01.10651	New Hanover	8	US 117/ NC 132 SB ENTRANCE RAMP	FROM MAP 7 TO US 117 SB (MP 0.000 - 0.161)	4	1	2WD	NO	NO	0.161	24								*	32	8	8	10	16	10				
TOTAL FOR MAP NO. 8										0.161											32	8	8	10	16	10			
2017CPT.03.01.10651	New Hanover	9	W-5203AA (RESURF QYTS ONLY)	SB FROM MP 10.198 TO MP 10.598 & NB FROM MP 4.959 TO MP 5.359	N/A	3	MD	NO	NO	0.4	36								*										
TOTAL FOR MAP NO. 9										0.4																			
2017CPT.03.01.10651	New Hanover	10	W-5601BB (RESURF QYTS ONLY)	NB FROM MP 6.209 TO 6.256 & SB FROM MP 9.301 TO MP 9.348	N/A	3	MD	NO	NO	0.047	36								*										
TOTAL FOR MAP NO. 10										0.047																			
TOTAL FOR PROJ NO. 2017CPT.03.01.10651										4.692					26	5	1	3.00	3.00	2.00	925.00		302	60	60	60	152	100	1.00
36249.3622	NewHanover	11	INTERSECTION OF US 117/ NC 132 (COLLEGE RD.) & SR 2313 (WILSHIRE BLVD.)	NB FROM MP 4.792 TO MP 4.812 & SB FROM MP 10.748 TO MP 10.768	N/A	3	MD	NO	NO	0.02	36								*										
TOTAL FOR MAP NO. 11										0.02																			
TOTAL FOR PROJ NO. 36249.3622										0.02																			
GRAND TOTAL										4.712					26	5	1	3.00	3.00	2.00	925.00	1	302	60	60	60	152	100	1.00

PROJECT NO.	SHEET NO.
2017CPT.03.01.10651, Etc.	18

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	SEED FOR REPAIR SEEDING LB	FERTILIZER FOR REPAIR SEEDING TON	RESPONSE FOR EROSION CONTROL EA	PEDESTRIAN SIGNAL HEAD (16", 1SECTION W/COUNTDOWN) EA	SIGNAL CABLE LF	VEHICLE SIGNAL HEAD (12", 3 SECTION) LF	PAVED TRENCHING (1 CONDUIT, 2 INCH) LF	UNPAVED TRENCHING (1CONDUIT, 2 INCH) LF	DIRECTIONAL DRILL (3 CONDUITS, 2 INCH) LF	JUNCTION BOX (STANDARD SIZE) EA	INDUCTIVE LOOP SAWCUT LF	LEAD-IN CABLE (14-2) LF	TYPE I POST WITH FOUNDATION EA	DETECTOR CARD (TYPE 170) EA			
2017CPT.03.01.10651	NewHanover	1 - 10	US 117 / NC 132 (COLLEGE RD.)	(TRAFFIC CONTROL/LIGHTING)	N/A			NO	NO	N/A																		
TOTAL FOR MAP NO. 0																												
2017CPT.03.01.10651	New Hanover	1	US 117 / NC 132 NB (COLLEGE RD.)	FROM .05 MILES PAST CEDAR AVE. TO US 17 (MARKET STREET BRIDGE)	1 - 3	3 - 4	2WD	NO	NO	1.763	36 - 48	250	0.50	5		300.00	1						4,870.00	4,290		1.00		
TOTAL FOR MAP NO. 1																												
2017CPT.03.01.10651	NewHanover	2	US 117 / NC 132 SB (COLLEGE RD.)	FROM US 17 (MARKET STREET BRIDGE) TO .05 MILES FROM CEDAR AVE.	1 - 3, 6	3 - 4	2WD	NO	NO	1.763	36 - 48	260	0.50	5		300.00	1		170	125.00	2	4,980.00	6,680		2.00			
TOTAL FOR MAP NO. 2																												
2017CPT.03.01.10651	NewHanover	3	US 117/ NC 132 NB EXIT RAMP	FROM 117NB TO MAP 4 (MP 0.000 - 0.175)	4	1	2WD	NO	NO	0.175	24			1														
TOTAL FOR MAP NO. 3																												
2017CPT.03.01.10651	New Hanover	4	US 117/ NC 132 NB ENTRANCE/EXIT RAMP	FROM MARKET ST. TO MAPS 3&5 (MP 0.000 - .133)	6	3	2WD	NO	NO	0.133	60																	
TOTAL FOR MAP NO. 4																												
2017CPT.03.01.10651	New Hanover	5	US 117/ NC 132 NB ENTRANCE RAMP	FROM MAP 4 TO US 117 NB (MP 0.000 - 0.109)	5	1	2WD	NO	NO	0.109	22			1														
TOTAL FOR MAP NO. 5																												
2017CPT.03.01.10651	New Hanover	6	US 117/ NC 132 SB EXIT RAMP	FROM 117SB TO MAP 7 (MP 0.000 - 0.063)	4	1	2WD	NO	NO	0.063	22			1														
TOTAL FOR MAP NO. 6																												
2017CPT.03.01.10651	New Hanover	7	US 117/ NC 132 SB ENTRANCE/EXIT RAMP	FROM MAPS 6&8 TO MARKET ST. (MP 0.000 - 0.078)	6	3	2WD	NO	NO	0.078	60																	
TOTAL FOR MAP NO. 7																												
2017CPT.03.01.10651	New Hanover	8	US 117/ NC 132 SB ENTRANCE RAMP	FROM MAP 7 TO US 117 SB (MP 0.000 - 0.161)	4	1	2WD	NO	NO	0.161	24			1														
TOTAL FOR MAP NO. 8																												
2017CPT.03.01.10651	New Hanover	9	W-5203AA (RESURF QYTS ONLY)	SB FROM MP 10.198 TO MP 10.598 & NB FROM MP 4.959 TO MP 5.359	N/A	3	MD	NO	NO	0.4	36								300		6	1,700.00	6,000					
TOTAL FOR MAP NO. 9																												
2017CPT.03.01.10651	New Hanover	10	W-5601BB (RESURF QYTS ONLY)	NB FROM MP 6.209 TO 6.256 & SB FROM MP 9.301 TO MP 9.348	N/A	3	MD	NO	NO	0.047	36								300		4	2,200.00	2,000					
TOTAL FOR MAP NO. 10																												
TOTAL FOR PROJ NO. 2017CPT.03.01.10651																												
36249.3622	NewHanover	11	INTERSECTION OF US 117/ NC 132 (COLLEGE RD.) & SR 2313 (WILSHIRE BLVD.)	NB FROM MP 4.792 TO MP 4.812 & SB FROM MP 10.748 TO MP 10.768	N/A	3	MD	NO	NO	0.02	36				2.00	500.00		50.00	160		1	750.00	850	2.00				
TOTAL FOR MAP NO. 11																												
TOTAL FOR PROJ NO. 36249.3622																												
GRAND TOTAL																												
										4.712		510	1.00	14	2.00	1,100.00	2	50.00	930	125.00	13	14,500.00	19,820	2.00	3.00			

PROJECT NO.	SHEET NO.
2017CPT.03.01.10651, Etc.	19

THERMOPLASTIC AND PAINT QUANTITIES

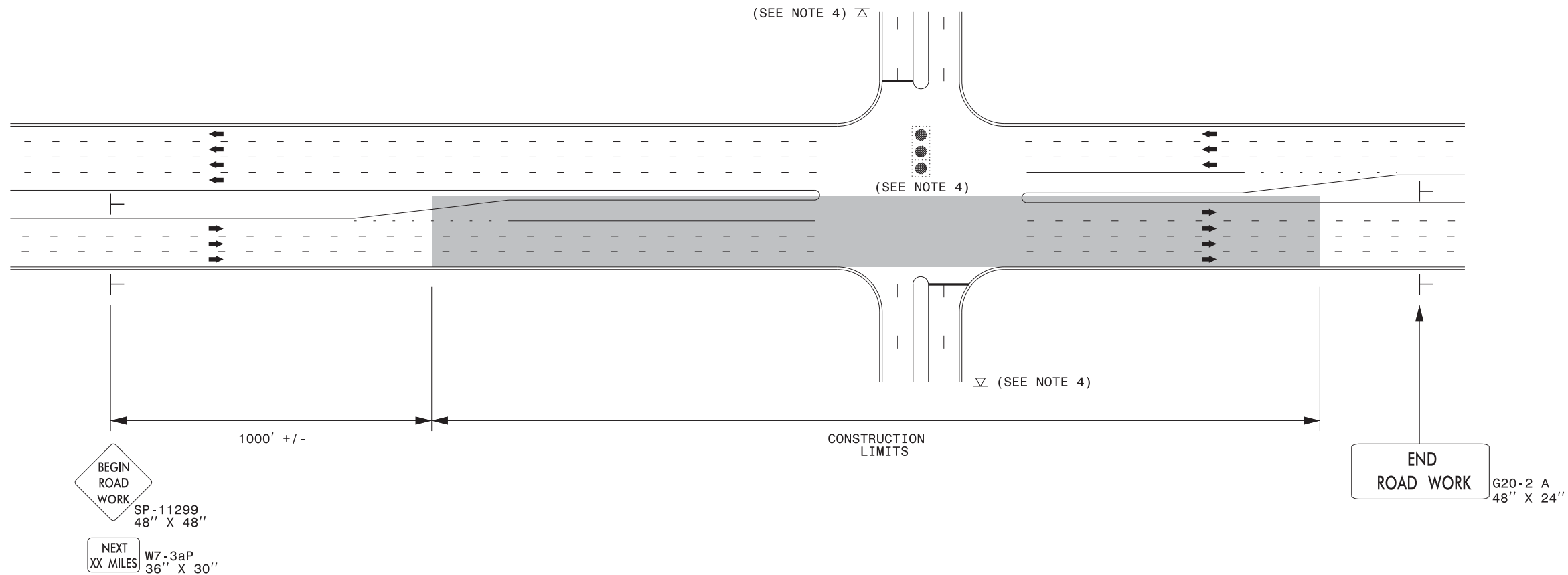
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4400000000-E	4405000000-E	4415000000-N	4420000000-N	4430000000-N	4450000000-N	4480000000-N	4510000000-N	4516000000-N	4685000000-E		4686000000-E						
										WORK ZONE SIGNS (STATIONARY) SF	WORK ZONE SIGNS (PORTABLE) SF	FLASHING ARROW BOARD EA	PORT CHANG MSG SIGN EA	DRUMS EA	FLAGGER HR	TMA EA	LAW ENFORCEMENT HR	SKINNY DRUM EA	4" X 90 M WHITE THERMO LF	4" X 90 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF					
2017CPT.03.01.10651	New Hanover	0	ALL MAPS	(TRAFFIC CONTROL/LIGHTING)	N/A			N/A	N/A	528	484	4	4	220	180	4	54.00	100									
TOTAL FOR MAP NO. 0										528	484	4	4	220	180	4	54	100									
2017CPT.03.01.10651	New Hanover	1	US 117 / NC 132 NB (COLLEGE RD.)	FROM .05 MILES PAST CEDAR AVE. TO US 17 (MARKET STREET BRIDGE)	1-3	3-4	2WD	1.763	36-48											3,680	11,050	4,355	300				
TOTAL FOR MAP NO. 1																				3,680	11,050	4,355	300				
2017CPT.03.01.10651	New Hanover	2	US 117 / NC 132 SB (COLLEGE RD.)	FROM US 17 (MARKET STREET BRIDGE) TO .05 MILES FROM CEDAR AVE.	1-3	3-4	2WD	1.763	36-48											5,105	11,990	7,010					
TOTAL FOR MAP NO. 2																				5,105	11,990	7,010					
2017CPT.03.01.10651	New Hanover	3	US 117/ NC 132 NB EXIT RAMP	FROM 117NB TO MAP 4 (MP 0.000 - 0.175)	4	1	2WD	0.175	24											905	905						
TOTAL FOR MAP NO. 3																				905	905						
2017CPT.03.01.10651	New Hanover	4	US 117/ NC 132 NB ENTRANCE/EXIT RAMP	FROM MARKET ST. TO MAPS 3&5 (MP 0.000 - .133)	6	3	2WD	0.133	60											1,400		425					
TOTAL FOR MAP NO. 4																				1,400		425					
2017CPT.03.01.10651	New Hanover	5	US 117/ NC 132 NB ENTRANCE RAMP	FROM MAP 4 TO US 117 NB (MP 0.000 - 0.109)	5	1	2WD	0.109	22											150	576						
TOTAL FOR MAP NO. 5																				150	576						
2017CPT.03.01.10651	New Hanover	6	US 117/ NC 132 SB EXIT RAMP	FROM 117SB TO MAP 7 (MP 0.000 - 0.063)	4	1	2WD	0.063	22											358	358						
TOTAL FOR MAP NO. 6																				358	358						
2017CPT.03.01.10651	New Hanover	7	US 117/ NC 132 SB ENTRANCE/EXIT RAMP	FROM MAPS 6&8 TO MARKET ST. (MP 0.000 - 0.078)	6	3	2WD	0.078	60											450		50					
TOTAL FOR MAP NO. 7																				450		50					
2017CPT.03.01.10651	New Hanover	8	US 117/ NC 132 SB ENTRANCE RAMP	FROM MAP 7 TO US 117 SB (MP 0.000 - 0.161)	4	1	2WD	0.161	24											845	845						
TOTAL FOR MAP NO. 8																				845	845						
2017CPT.03.01.10651	New Hanover	9	W-5203AA (RESURF QYTS ONLY)	SB FROM MP 10.198 TO MP 10.598 & NB FROM MP 4.959 TO MP 5.359	N/A	3	MD	0.4	36											480		3,500					
TOTAL FOR MAP NO. 9																				480		3,500					
2017CPT.03.01.10651	New Hanover	10	W-5601BB (RESURF QYTS ONLY)	NB FROM MP 6.209 TO 6.256 & SB FROM MP 9.301 TO MP 9.348	N/A	3	MD	0.047	36													1,150					
TOTAL FOR MAP NO. 10																							1,150				
TOTAL FOR PROJ NO. 2017CPT.03.01.10651										528	484	4	4	220	180	4	54	100		13,373	25,724	16,490	300				
																				39,097		16,790					
36249.3622	New Hanover	11	INTERSECTION OF US 117/ NC 132 (COLLEGE RD.) & SR 2313 (WILSHIRE BLVD.)	NB FROM MP 4.792 TO MP 4.812 & SB FROM MP 10.748 TO MP 10.768	N/A	3	MD	0.02	36																		
TOTAL FOR MAP NO. 11																											
TOTAL FOR PROJ NO. 36249.3622																											
GRAND TOTAL																											
										4,712	528	484	4	4	220	180	4	54	100		13,373	25,724	16,490	300			
																					39,097		16,790				

PROJECT NO.	SHEET NO.
2017CPT.03.01.10651, Etc.	20

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4695000000-E	4697000000-E	4700000000-E	4702000000-E	4710000000-E	4721000000-E	4725000000-E							
										8" X 90 M WHITE THERMO LF	8" X 120 M WHITE THERMO LF	12" X 90 M WHITE THERMO LF	12" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO MSG ONLY 120 M EA	YIELD LINE TRIANGLE EA	THERMO LT ARROW 90 M EA	THERMO STR ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	MERGE ARROW 90 M EA	THERMO RT ARROW 90 M EA		
2017CPT.03.01.10651	NewHanover	0	ALL MAPS	(TRAFFIC CONTROL/LIGHTING)	N/A			N/A	N/A														
TOTAL FOR MAP NO. 0																							
2017CPT.03.01.10651	New Hanover	1	US 117 / NC 132 NB (COLLEGE RD.)	FROM .05 MILES PAST CEDAR AVE. TO US 17 (MARKET STREET BRIDGE)	1-3	3-4	2WD	1.763	36-48	1,690	1,425	35	135	570	28	6	27	35	3	3	20		
TOTAL FOR MAP NO. 1																							
2017CPT.03.01.10651	NewHanover	2	US 117 / NC 132 SB (COLLEGE RD.)	FROM US 17 (MARKET STREET BRIDGE) TO .05 MILES FROM CEDAR AVE.	1-3	3-4	2WD	1.763	36-48	1,170	1,200	325	145	620	16		25	34	2		21		
TOTAL FOR MAP NO. 2																							
2017CPT.03.01.10651	NewHanover	3	US 117/ NC 132 NB EXIT RAMP	FROM 117NB TO MAP 4 (MP 0.000 - 0.175)	4	1	2WD	0.175	24														
TOTAL FOR MAP NO. 3																							
2017CPT.03.01.10651	New Hanover	4	US 117/ NC 132 NB ENTRANCE/EXIT RAMP	FROM MARKET ST. TO MAPS 3&5 (MP 0.000 - .133)	6	3	2WD	0.133	60						12		1				2		
TOTAL FOR MAP NO. 4																							
2017CPT.03.01.10651	New Hanover	5	US 117/ NC 132 NB ENTRANCE RAMP	FROM MAP 4 TO US 117 NB (MP 0.000 - 0.109)	5	1	2WD	0.109	22														
TOTAL FOR MAP NO. 5																							
2017CPT.03.01.10651	New Hanover	6	US 117/ NC 132 SB EXIT RAMP	FROM 117SB TO MAP 7 (MP 0.000 - 0.063)	4	1	2WD	0.063	22														
TOTAL FOR MAP NO. 6																							
2017CPT.03.01.10651	New Hanover	7	US 117/ NC 132 SB ENTRANCE/EXIT RAMP	FROM MAPS 6&8 TO MARKET ST. (MP 0.000 - 0.078)	6	3	2WD	0.078	60						12		1	1			1		
TOTAL FOR MAP NO. 7																							
2017CPT.03.01.10651	New Hanover	8	US 117/ NC 132 SB ENTRANCE RAMP	FROM MAP 7 TO US 117 SB (MP 0.000 - 0.161)	4	1	2WD	0.161	24														
TOTAL FOR MAP NO. 8																							
2017CPT.03.01.10651	New Hanover	9	W-5203AA (RESURF QYTS ONLY)	SB FROM MP 10.198 TO MP 10.598 & NB FROM MP 4.959 TO MP 5.359	N/A	3	MD	0.4	36	1,370	750	320	336	1,100	16		18	26	2		20		
TOTAL FOR MAP NO. 9																							
2017CPT.03.01.10651	New Hanover	10	W-5601BB (RESURF QYTS ONLY)	NB FROM MP 6.209 TO 6.256 & SB FROM MP 9.301 TO MP 9.348	N/A	3	MD	0.047	36	125			510	660			6	8	1		3		
TOTAL FOR MAP NO. 10																							
TOTAL FOR PROJ NO. 2017CPT.03.01.10651										4,692	4,355	3,375	680	1,126	2,950	84	6	78	104	8	3	67	
266																							
36249.3622	NewHanover	11	INTERSECTION OF US 117/ NC 132 (COLLEGE RD.) & SR 2313 (WILSHIRE BLVD.)	NB FROM MP 4.792 TO MP 4.812 & SB FROM MP 10.748 TO MP 10.768	N/A	3	MD	0.02	36		320		500	300									
TOTAL FOR MAP NO. 11																							
TOTAL FOR PROJ NO. 36249.3622										0.02	320		500	300									
266																							
GRAND TOTAL									4.712	4,355	3,695	680	1,626	3,250	84	6	78	104	8	3	67		
266																							

URBAN / SUBURBAN WORKZONES



NOTES:

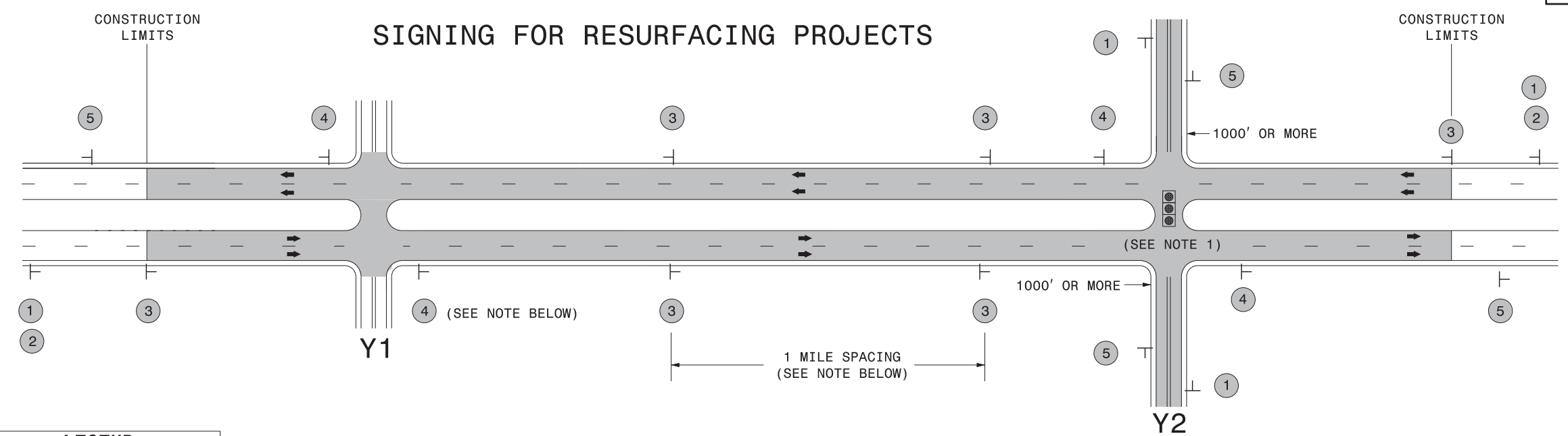
- 1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 36" ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
- 3) ADVANCE WARNING SIGNS NOT REQUIRED ON NON-SIGNALIZED SIDE STREETS.
- 4) 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.
- 5) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 2' AS MEASURED FROM THE EDGE OF PAVEMENT OR THE FACE OF THE CURB. WHEN UNABLE TO OBTAIN THE LATERAL CLEARANCE WITHIN THE MEDIAN AREA USE SHOULDER MOUNTS ONLY.
- 6) SIGN MOUNT LOCATIONS SHALL NOT BLOCK SIDEWALKS OR DRIVEWAYS.
- 7) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 8) 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 WHERE LATERAL CLEARANCE CAN BE OBTAINED WITHIN THE MEDIAN AREAS. THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

LEGEND

- STATIONARY SIGN
- DIRECTION OF TRAFFIC FLOW



**RESURFACING ADVANCE
WARNING SIGNS FOR
URBAN / SUBURBAN
FACILITIES**



LEGEND
 | STATIONARY SIGN
 ← DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	 	<p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>#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)</p>	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p>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.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;"> <small>W20-7 A 48" X 48"</small> </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p> <p>NOTES:</p> <ol style="list-style-type: none"> 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.
		<p>PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.</p>	
		<p>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.</p>	
		<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>	

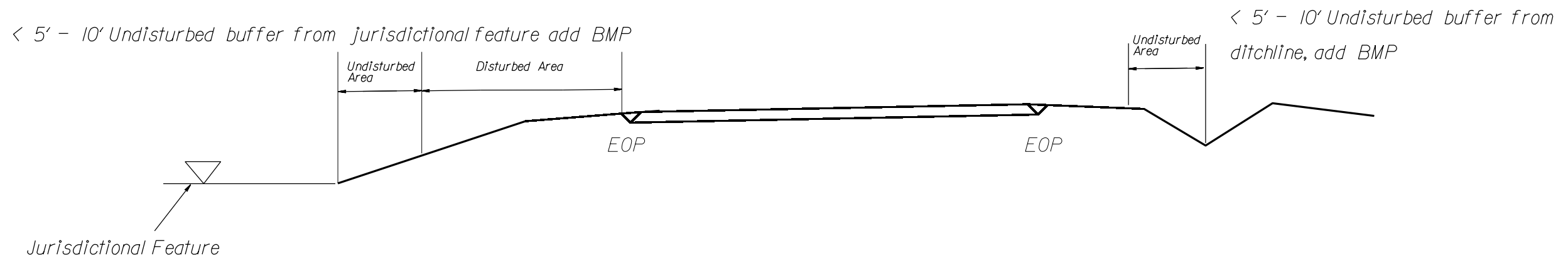
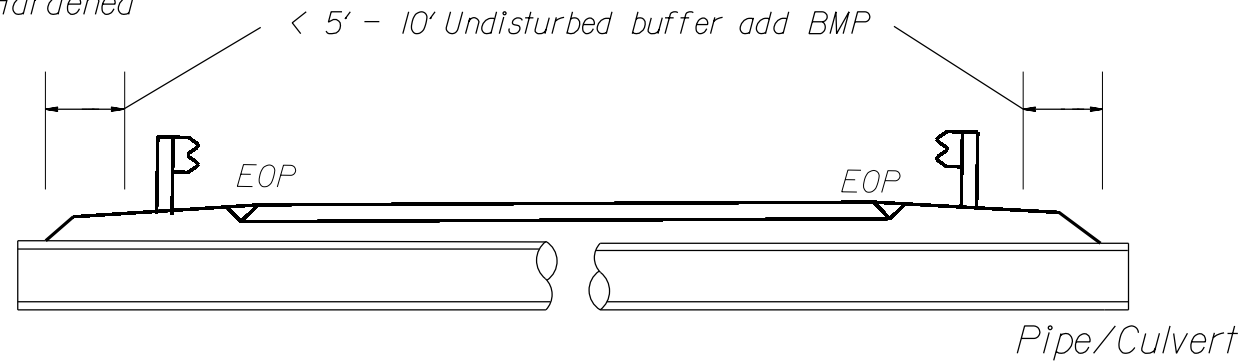
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**RESURFACING
ADVANCE WARNING SIGNS
FOR RURAL AND SUBURBAN
MULTI-LANE ROADWAYS
W/ SHOULDER SECTIONS**

NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle, Silt Fence or Hardened Aggregate.

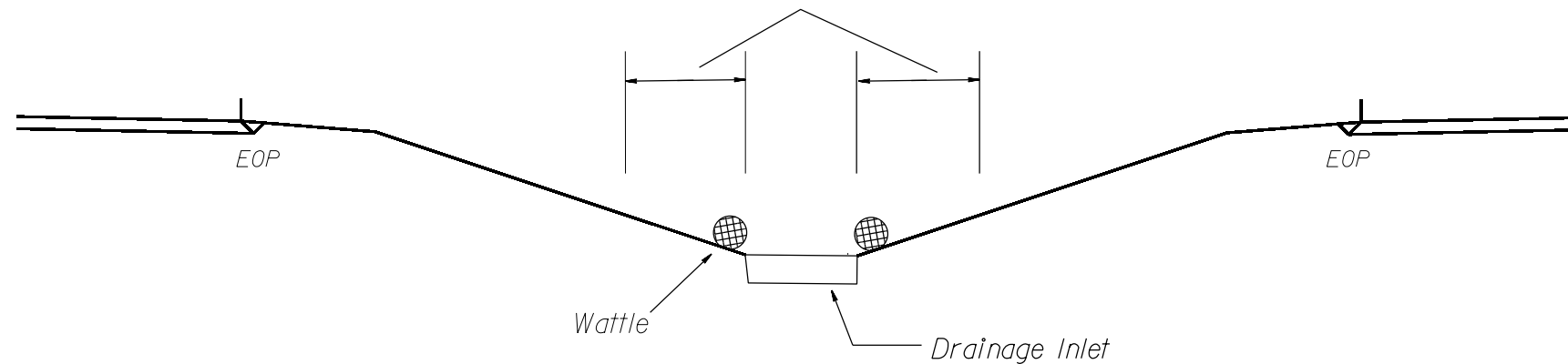
EROSION CONTROL DETAIL



Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed

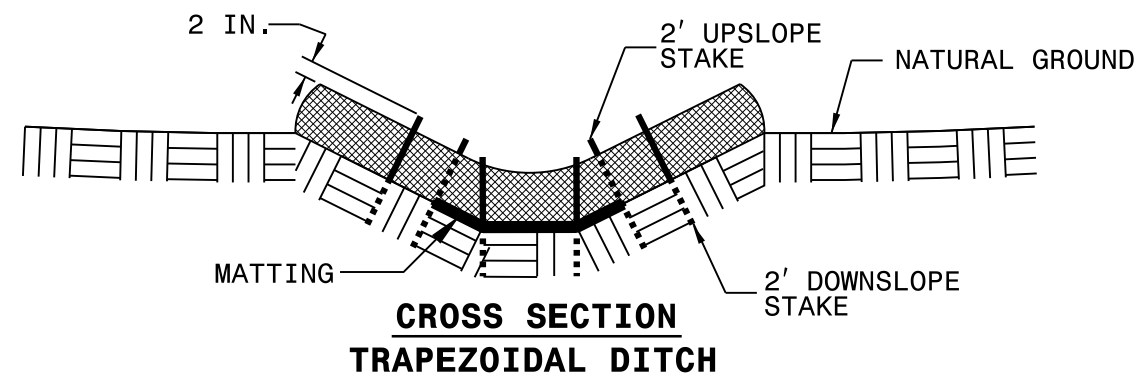
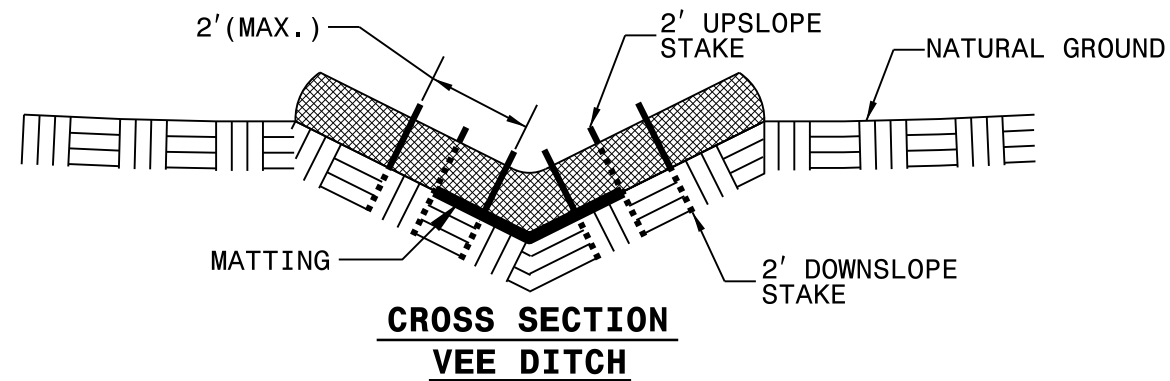
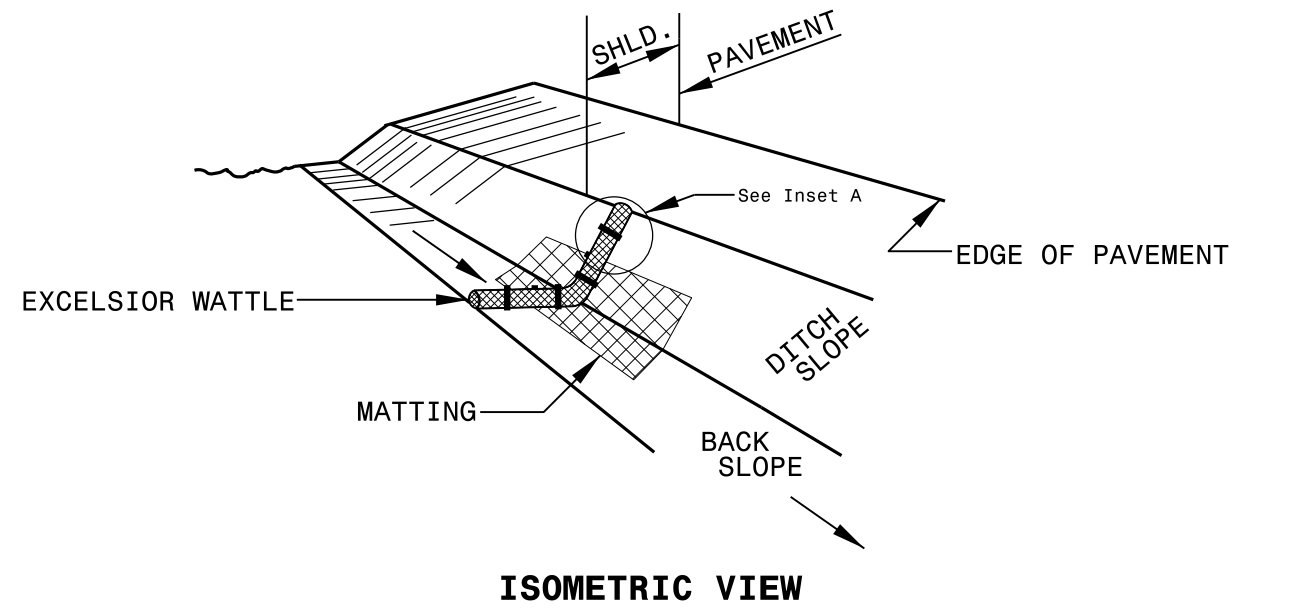


< 5' - 10' Undisturbed buffer from inlet, add wattle



NOT TO SCALE

WATTLE DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

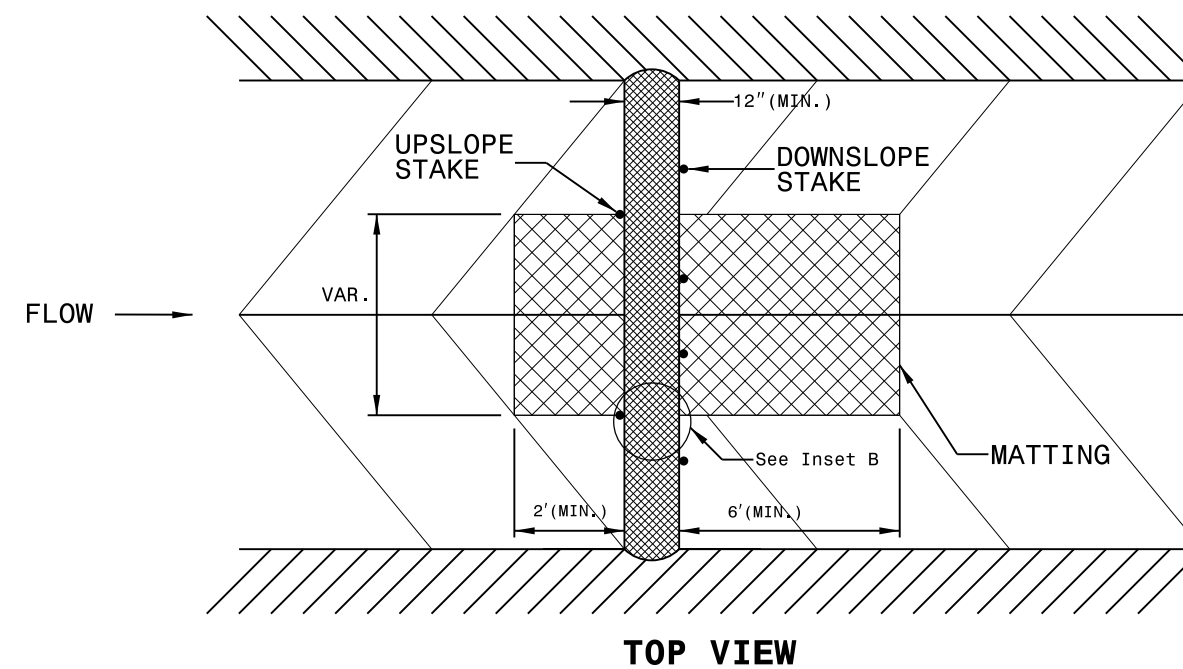
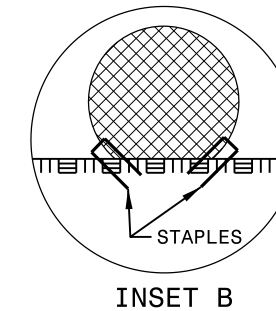
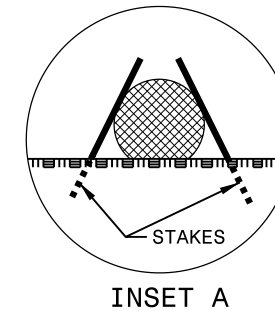
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.