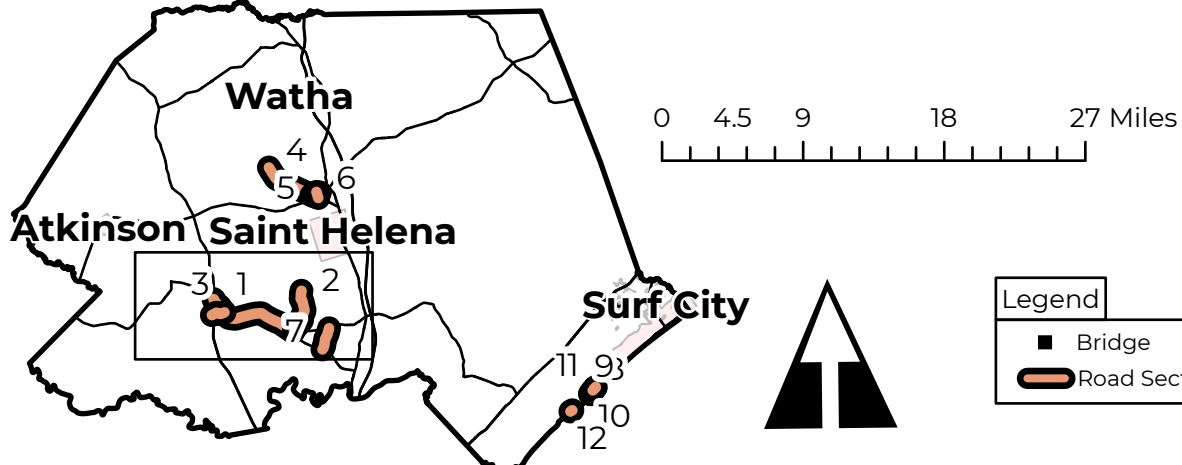
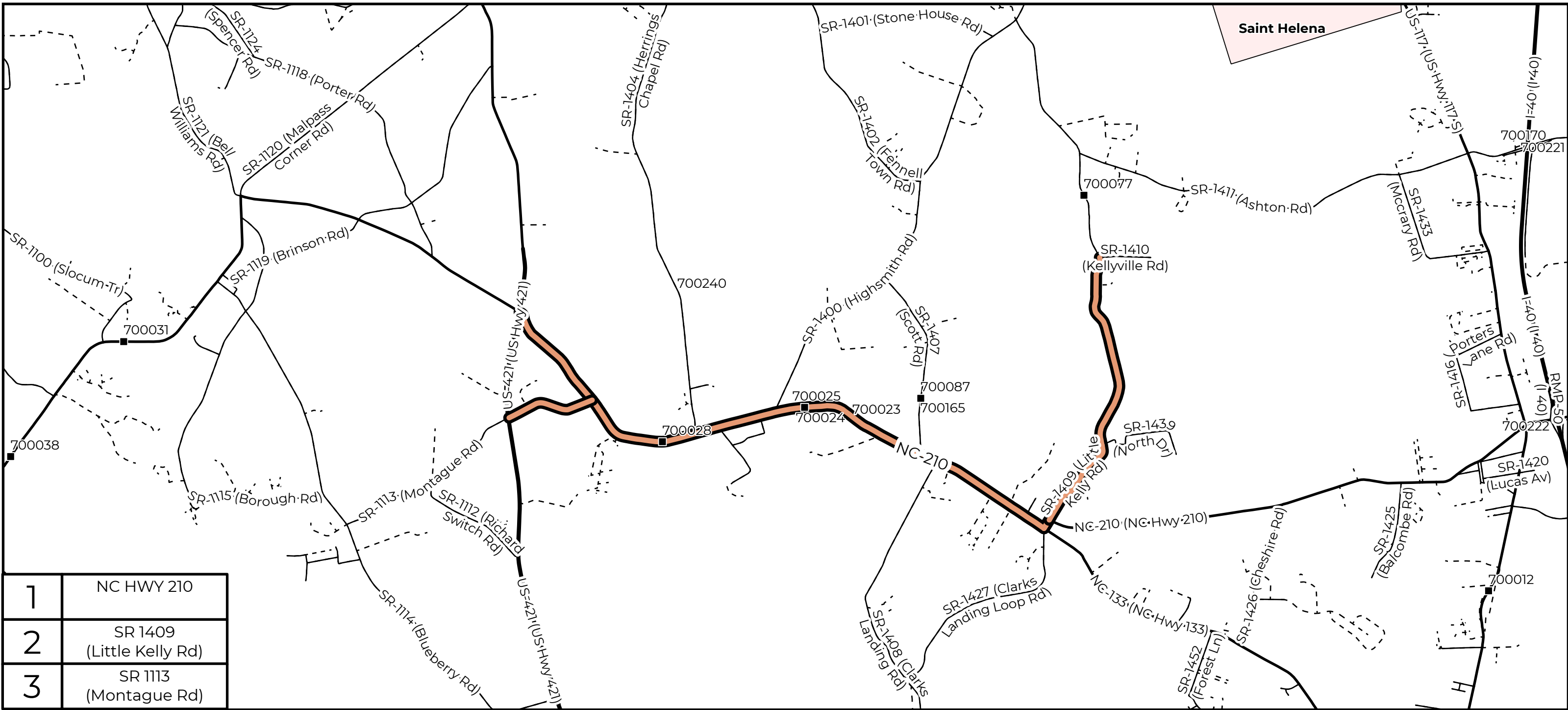


# Pender County 1-3



**Legend**

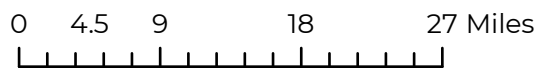
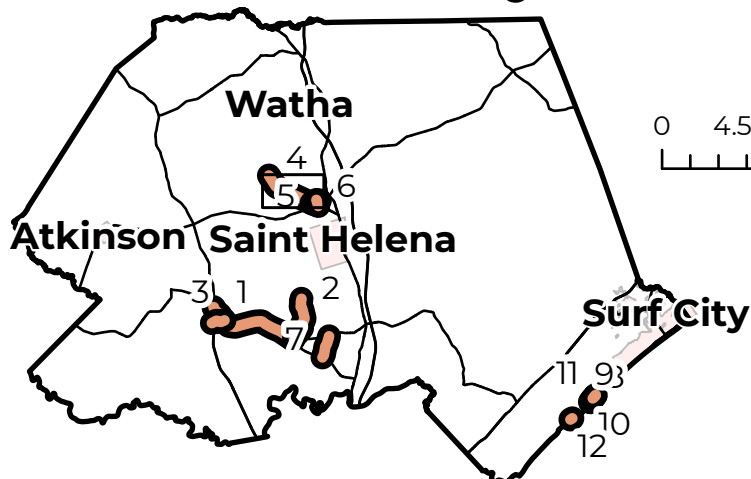
- Bridge
- State Maintained Road
- Road Section
- Municipality Road



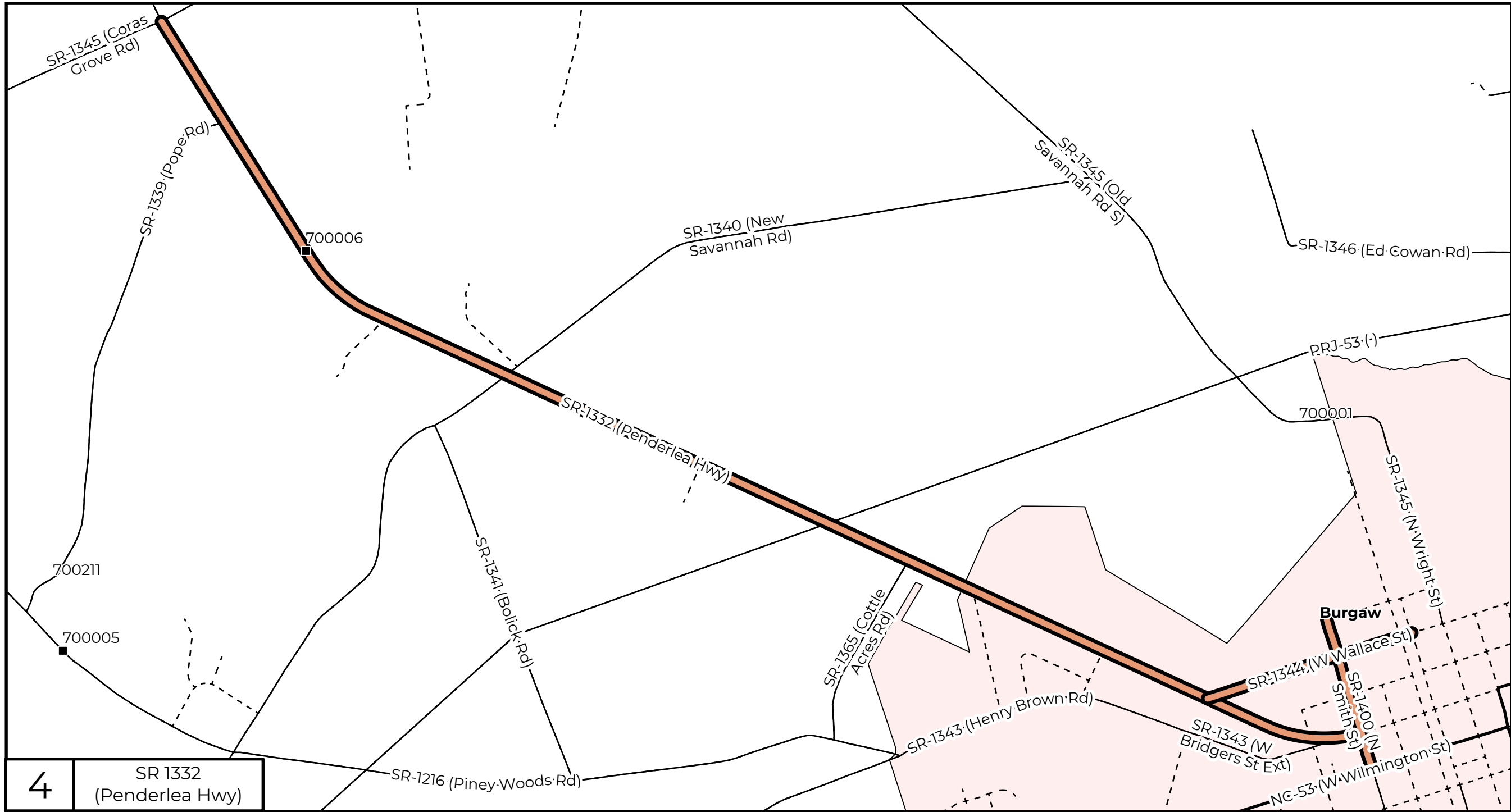
1	NC HWY 210
2	SR 1409 (Little Kelly Rd)
3	SR 1113 (Montague Rd)

# Pender County 4

PROJECT REFERENCE NO.	SHEET NO.
2021CPT.03.30.10711, ETC.	2



Legend	
	Bridge
	Road Section
	State Maintained Road
	Municipality Road



<b>4</b>	SR 1332 (Penderlea Hwy)
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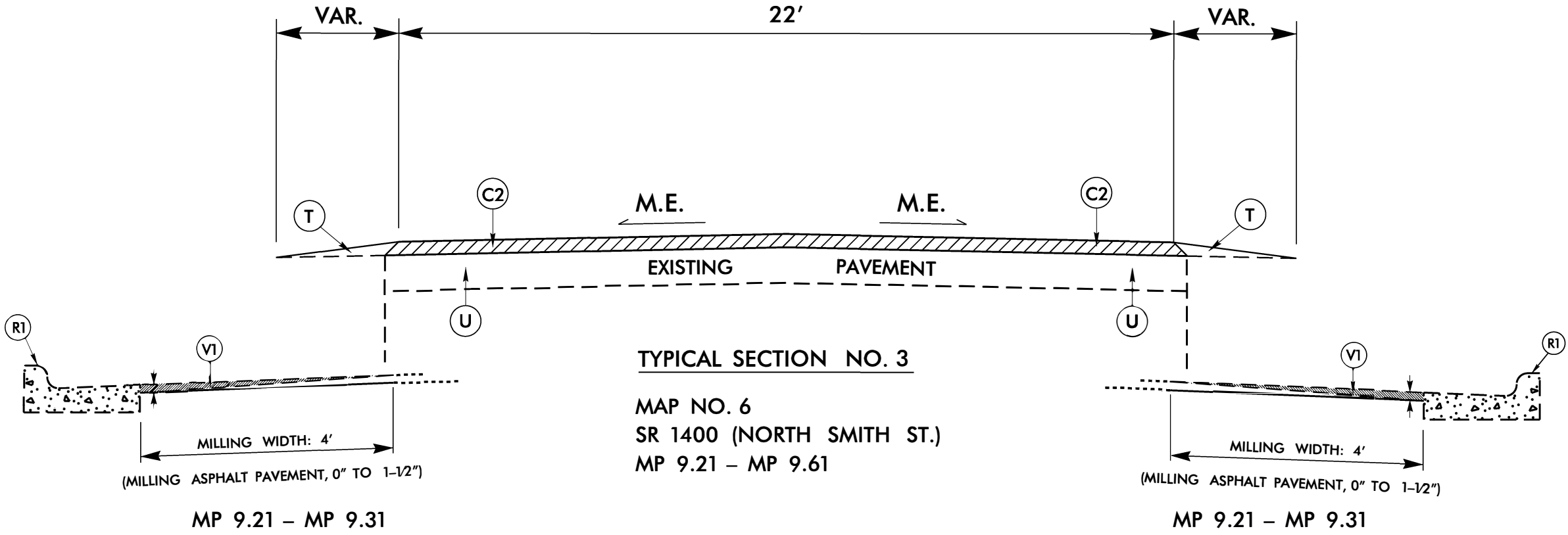




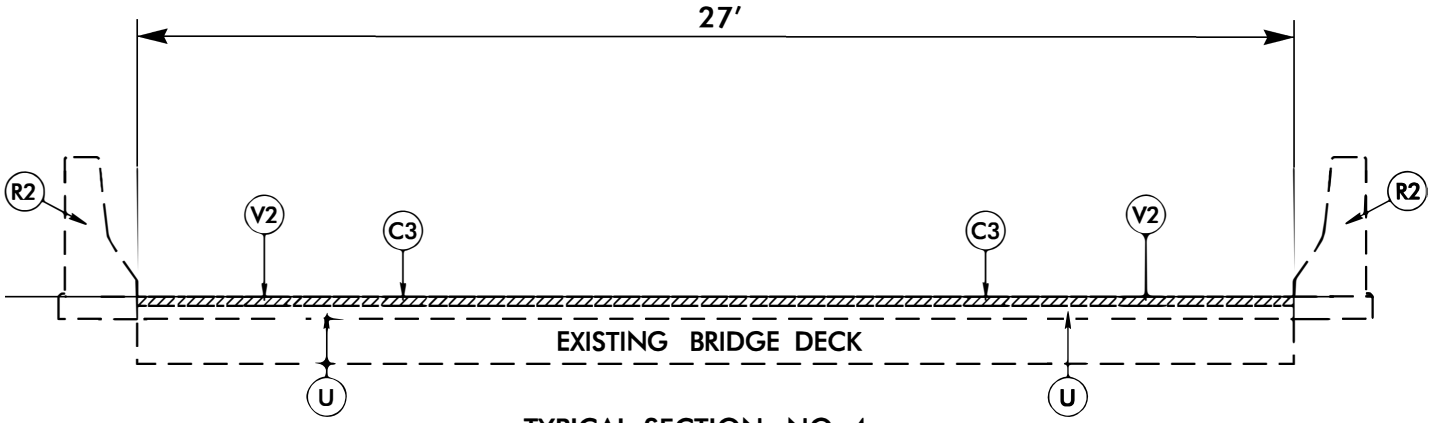
8/17/99

REVISIONS

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S:\Division\Resurfacing\Resurfacing Data\2021\Resurfacing\PENDER\2021.PENDER.FALL.LET\2021CPT.03.30.10711.Rdu-tye.dgn



PAVEMENT SCHEDULE	
C2	1 1/2" S9.5B
C3	1" S9.5B
R1	EXISTING 2'-6" CURB & GUTTER
R2	EXIST. CONC. BRIDGE RAIL
T	EARTH MATERIAL SHOULDER RECONST.
U	EXISTING PAVEMENT
V1	VARIABLE MILLING 0" - 1 1/2" DEPTH
V2	MILLING 1" DEPTH



**TYPICAL SECTION NO. 4**

MAP NO. 1  
NC 210 HWY.  
BRIDGE NO. 025 [MP 36.40 - MP 36.41]  
BRIDGE NO. 028 [MP 37.80 - MP 37.84]

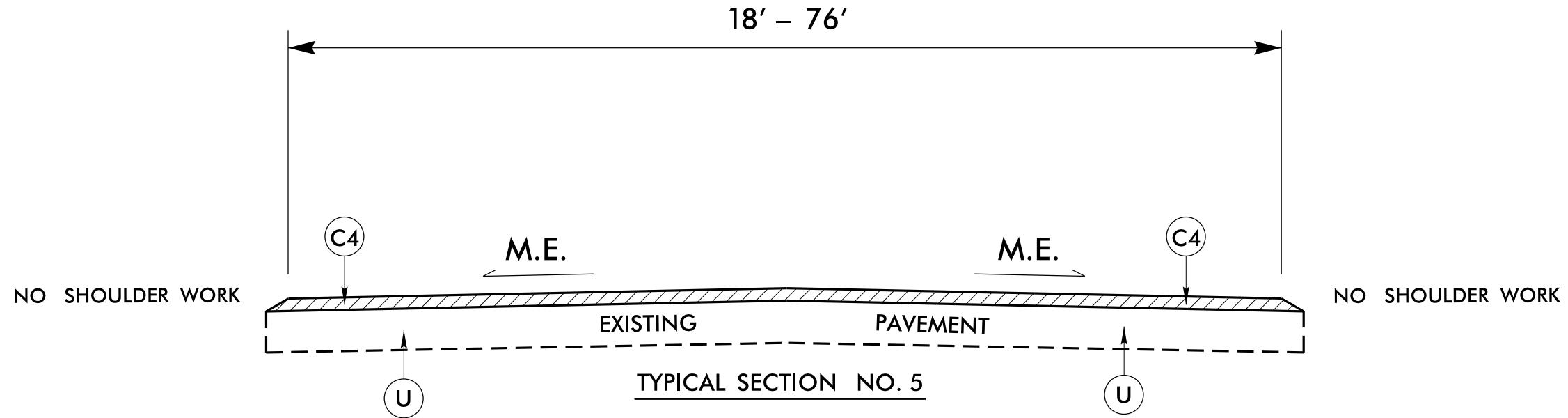
MAP NO. 4  
SR 1332 (PENDERLEA HWY.)  
BRIDGE NO. 006 [MP 36.40 - MP 36.41]

PAVEMENT EDGE SLOPES ARE 1:1, EXCEPT FINAL SURFACE COURSE. SEE SHOULDER WEDGE DETAIL.

NOTES: MILL A SINGLE LANE AND PAVE BACK BY THE END OF EACH WORK DAY.

SHOULDER WORK ON MAP NO. 6 AS NEEDED, TO BE DETERMINED BY ENGINEER.

PAVEMENT SCHEDULE	
C4	.75" S4.75A
U	EXISTING PAVEMENT



TYPICAL SECTION NO. 5

MAP NO. 8  
WBS: 36248.124 (CREWS AVE.)  
MP 0.00 – MP 0.03

MAP NO. 9  
WBS: 36248.124 (CAROLINA BLVD.)  
MP 0.00 – MP 0.13

MAP NO. 10  
WBS: 36248.124 (CHANNEL BLVD.)  
MP 0.00 – MP 0.05

MAP NO. 11  
WBS: 36248.124 (BRIDGERS AVE.)  
MP 0.00 – MP 0.31

MAP NO. 12  
WBS: 36248.124 (INLET AVE.)  
MP 0.00 – MP 0.01

*EFF.01-16-2018  
REV.*

2018 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N.C. Department of Transportation - Raleigh, N.C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 12 - PVMT MARKING, MARKERS AND DELINEATION	
1205.06	Lane Drops
1205.08	Pavement Markings - Symbols & Word Messages

PAVEMENT EDGE SLOPES ARE 1:1, EXCEPT FINAL SURFACE COURSE. SEE SHOULDER WEDGE DETAIL.

REVISIONS

15-SEP-2021 12:45  
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 8/17/99

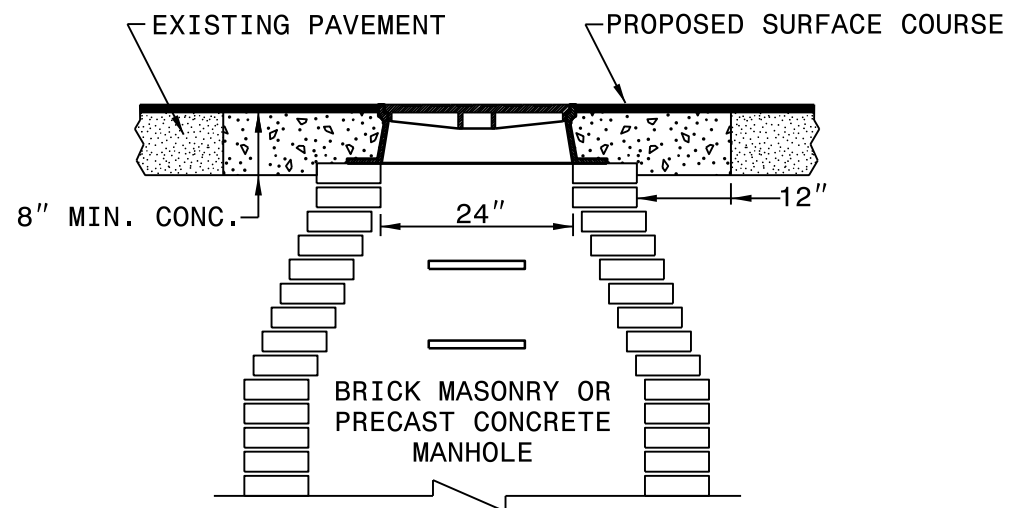
STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR  
**MANHOLE AND VALVE BOX ADJUSTMENTS**

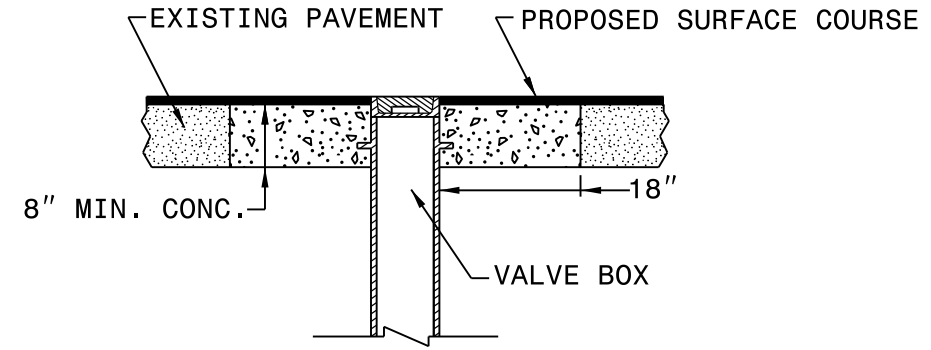
SHEET 1 OF 1  
**840D55**

GENERAL NOTES:

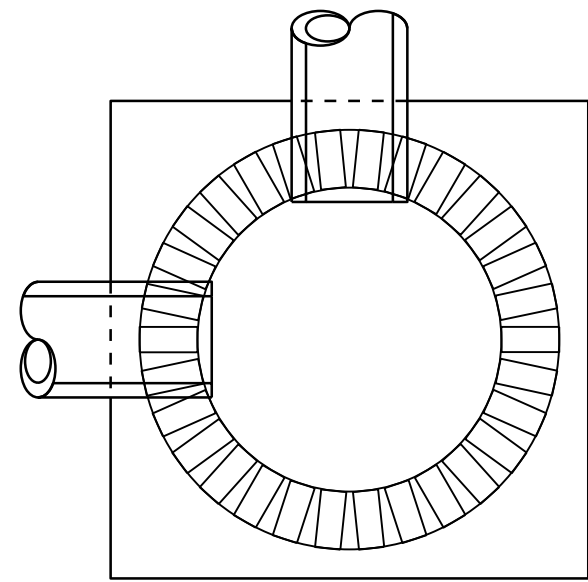
1. USE RAPID SET GROUT, MORTAR, OR CONCRETE THAT WILL TAKE FULL SET AND BECOME LOAD BEARING WITHIN SIXTY MINUTES OF PLACEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
2. REMOVE ALL FAULTY EXISTING BRICKWORK AND REPLACE WITH NEW BRICK MASONRY.
3. SHEER CUT EXCAVATION FOR THE ADJUSTMENT ON ALL 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 2018 STANDARD SPECIFICATIONS.



**MANHOLE CONCRETE ENCASEMENT**



**VALVE BOX CONCRETE ENCASEMENT**



**ELEVATION VIEW**

PLACE BRICK ACCORDING TO ELEVATION VIEW

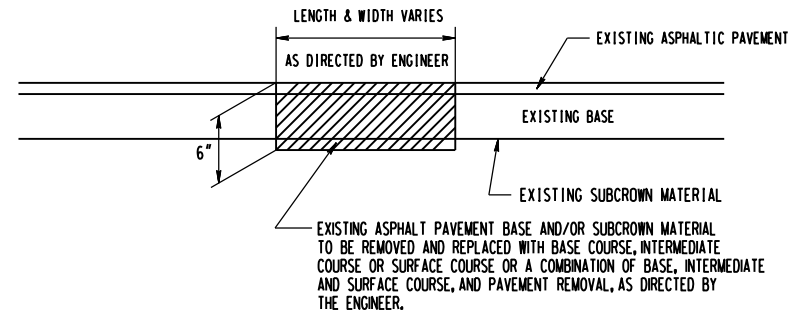
ENGLISH DETAIL DRAWING FOR  
**MANHOLE AND VALVE BOX ADJUSTMENTS**

SHEET 1 OF 1  
**840D55**

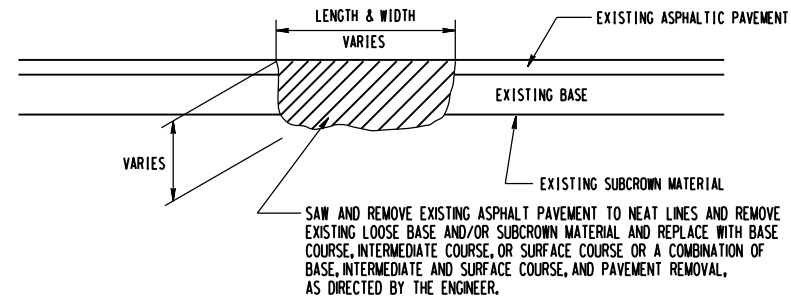
REVISIONS

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S:\Division Resurfacing\z Design Standards & Specifications\Drawings\Tutorials\_Curb, Etc.dwg  
8/17/99

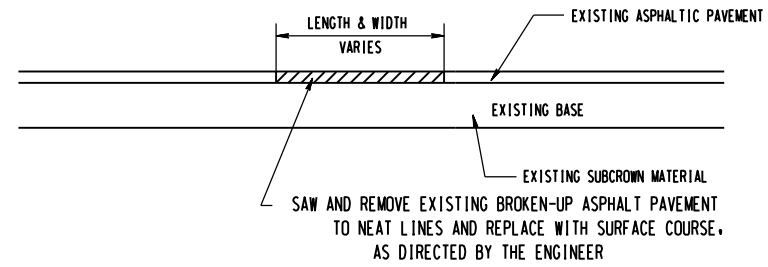
DETAILS OF REPAIRING EXISTING PAVEMENT PRIOR TO RESURFACING FOR FULL DEPTH AND MILLING



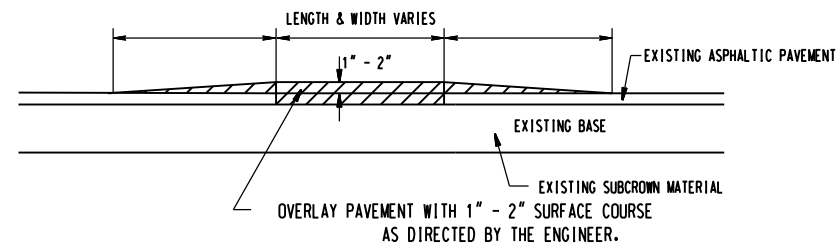
DETAIL NO. 1



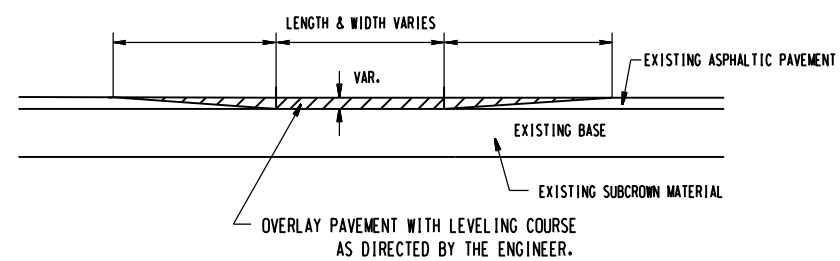
DETAIL NO. 2



DETAIL NO. 3



DETAIL NO. 4



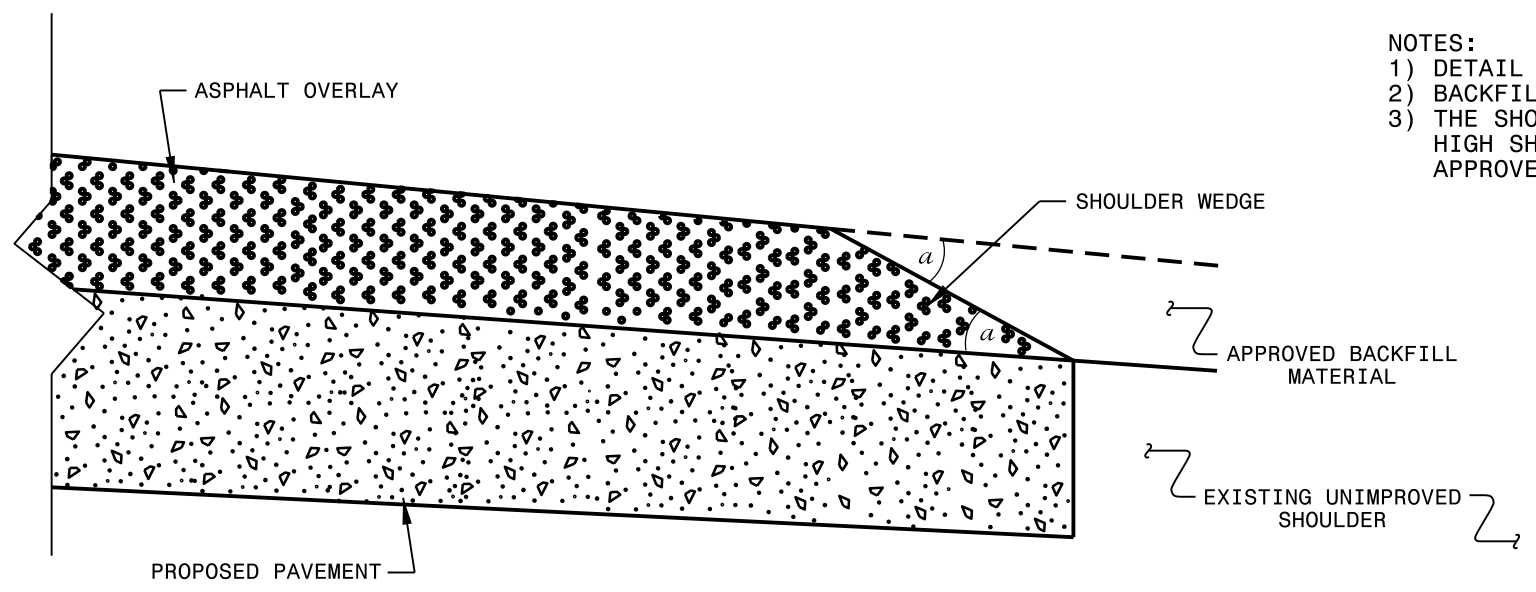
DETAIL NO. 5

REVISIONS

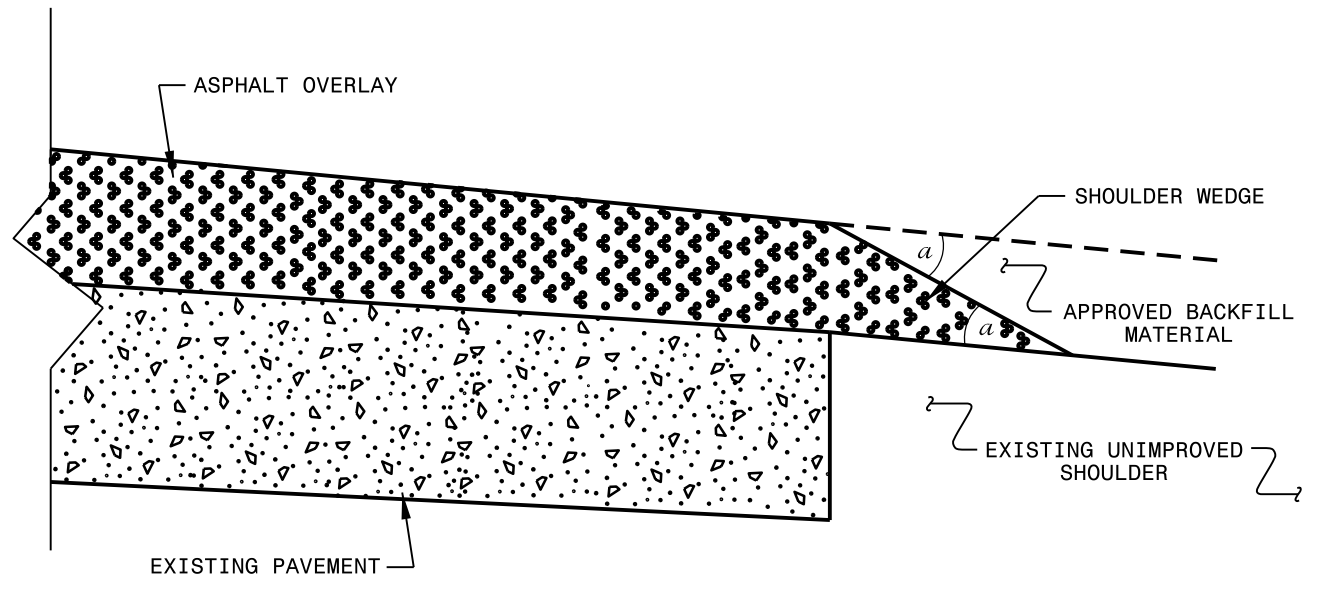
20-APP-2015-1156  
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 \$\$\$SUSFRNME\$\$\$



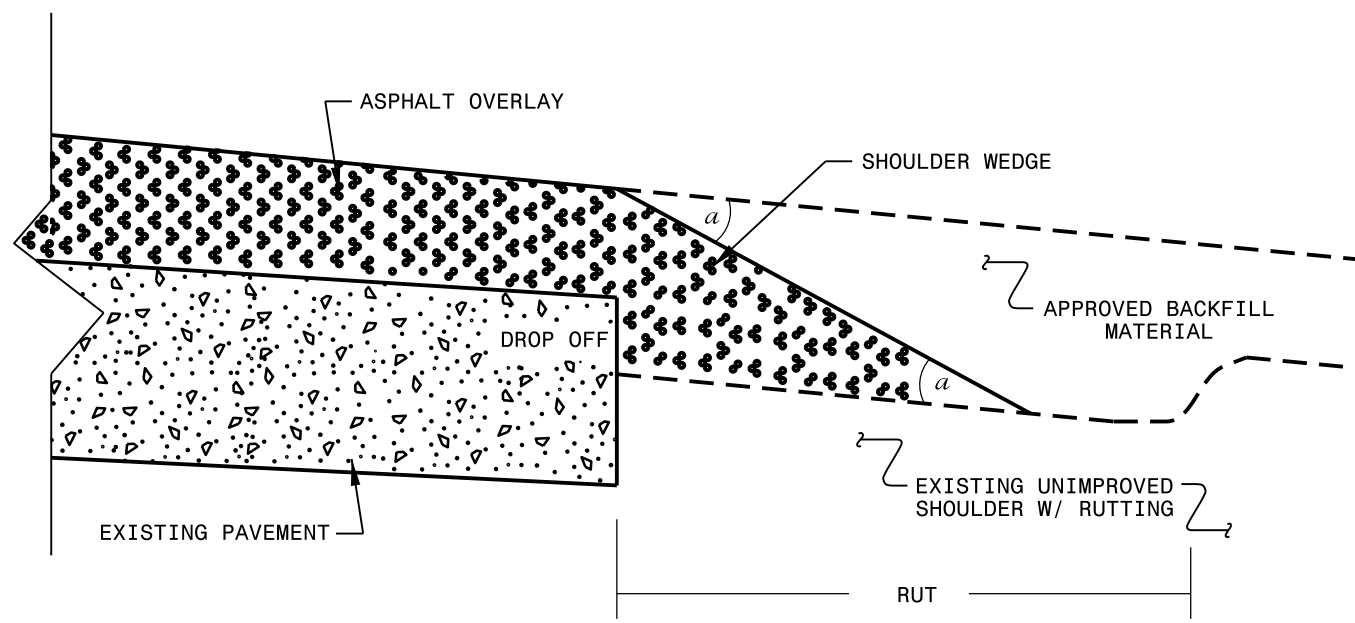
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



**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 DETAIL**  
 (Resurfacing Adjacent to  
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>			
Office 919-707-6950		FAX 919-250-4119	
<b>SHOULDER WEDGE DETAILS</b>			
ORIGINAL BY: T.SPELL	DATE: 7-19-11		
MODIFIED BY:	DATE: 2/2/16		
CHECKED BY:	DATE:		
FILE SPEC.: s:\usr\details\stand\shoulderwedgedetail.dgn			

27 JUN 2018 13:22  
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 3\Sampson August 2018 Revised Shoulder Wedge Detail.dgn  
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DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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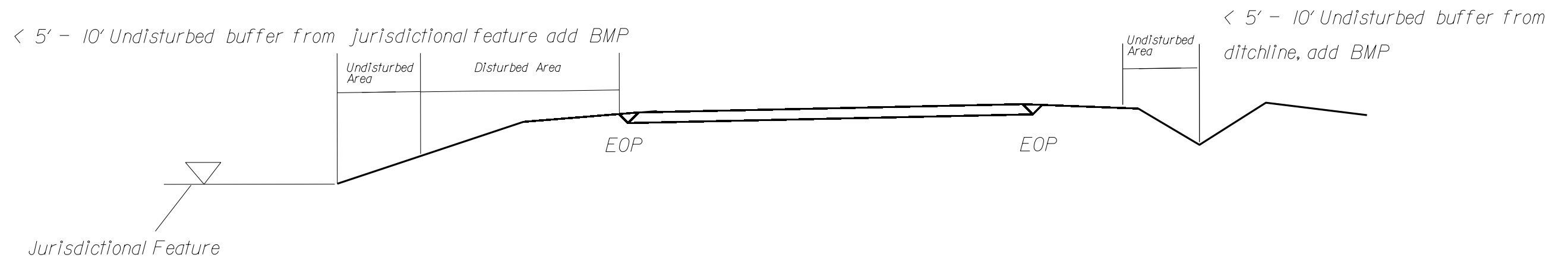
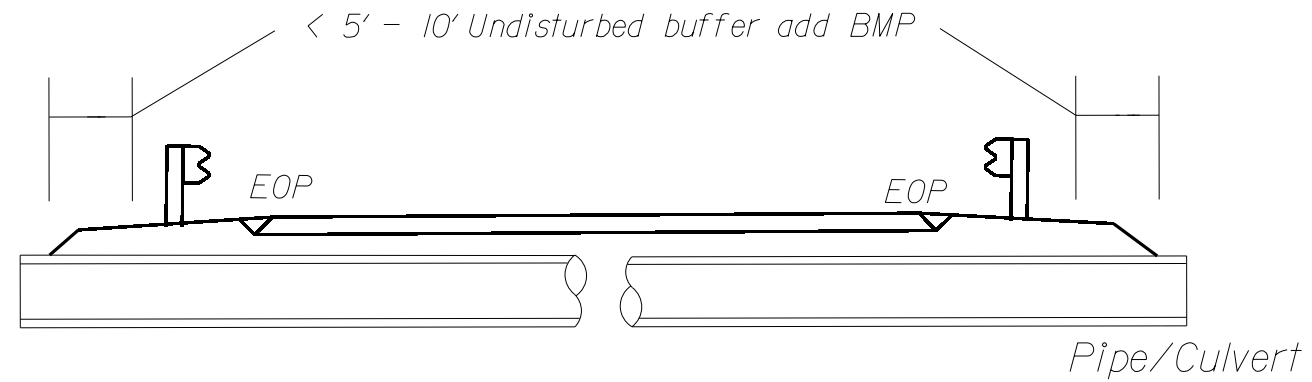
## ***SOIL STABILIZATION TIMEFRAMES***

<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.

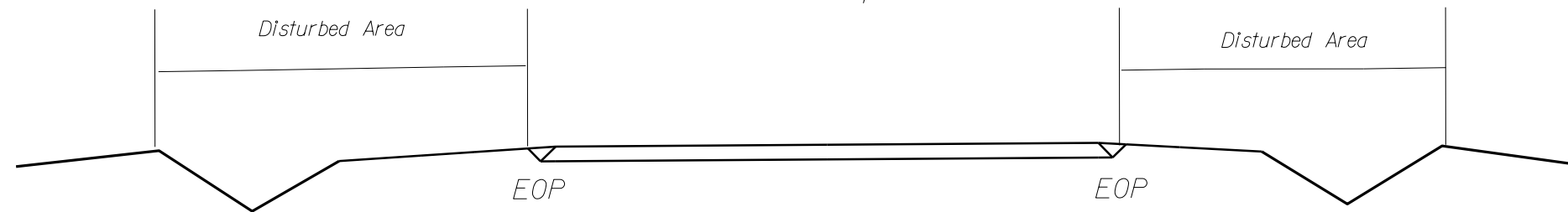
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle or Silt Fence

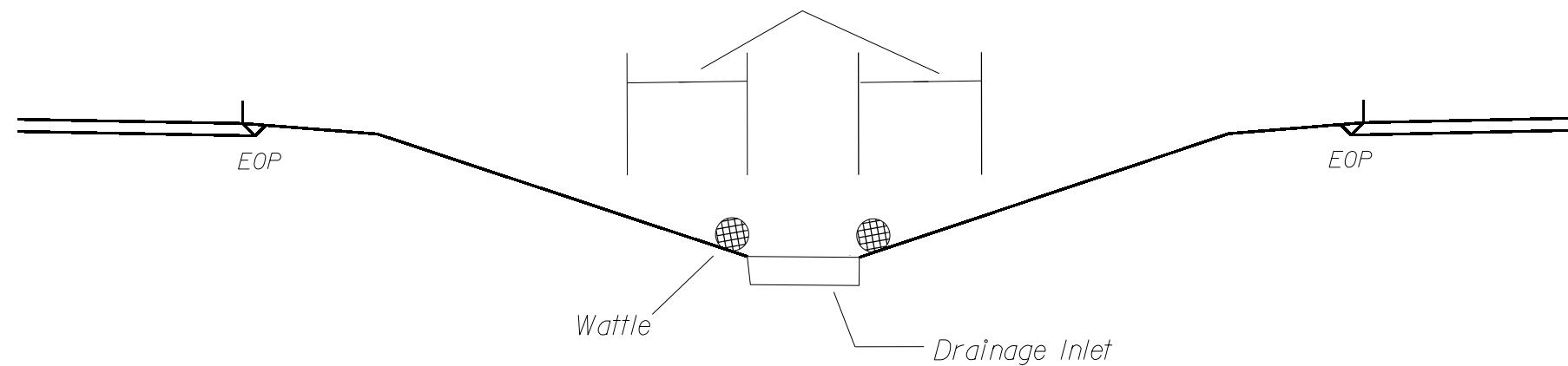
# EROSION CONTROL DETAIL



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

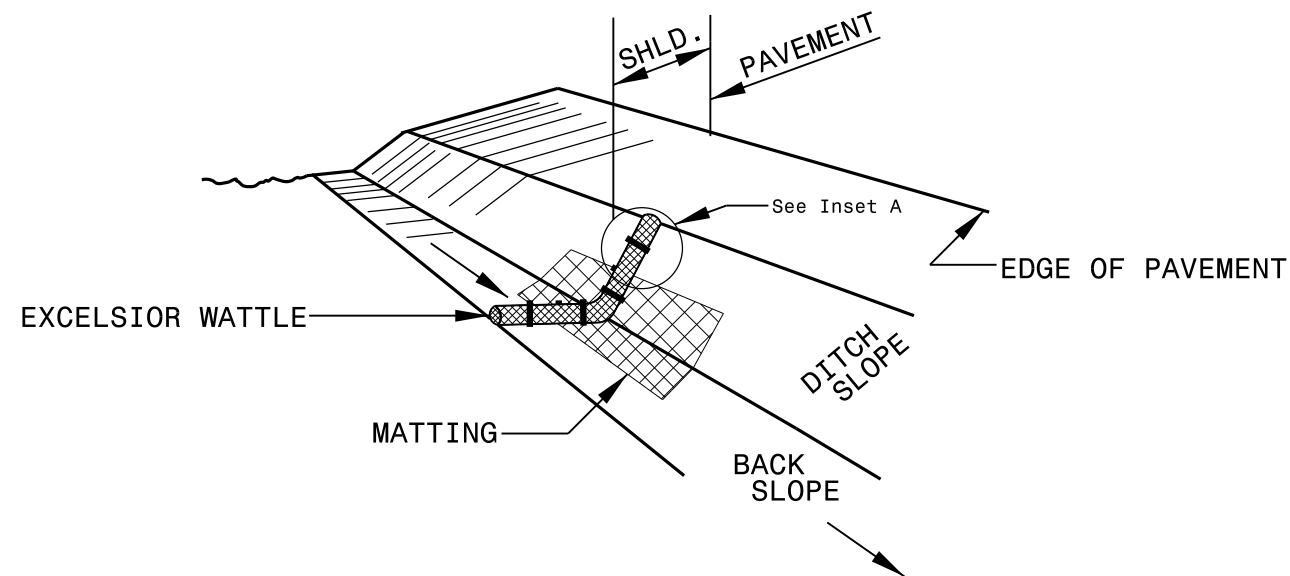


< 5' - 10' Undisturbed buffer from inlet, add wattle

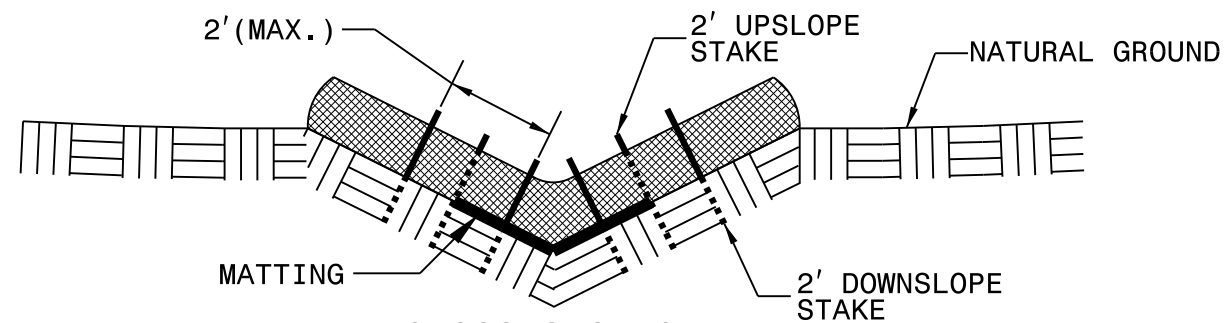


NOT TO SCALE

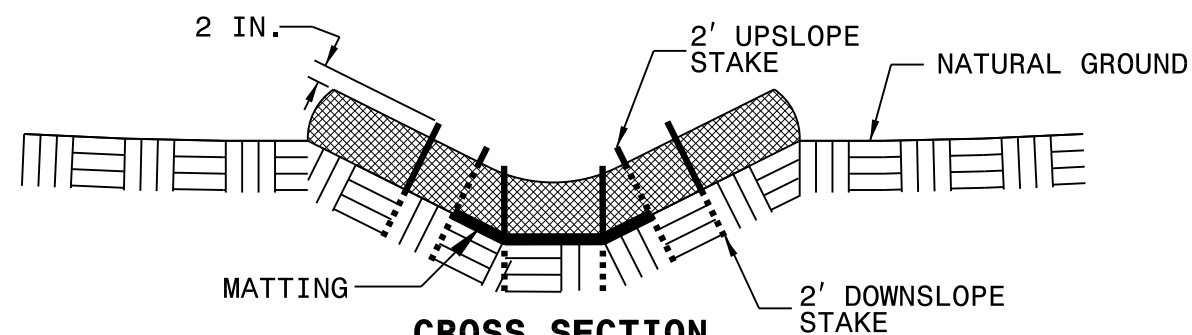
# WATTLE DETAIL



**ISOMETRIC VIEW**



**CROSS SECTION VEE DITCH**



**CROSS SECTION TRAPEZOIDAL DITCH**

**NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

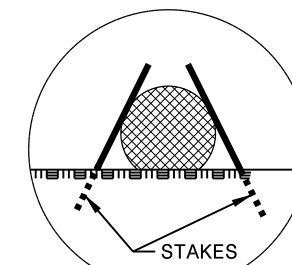
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

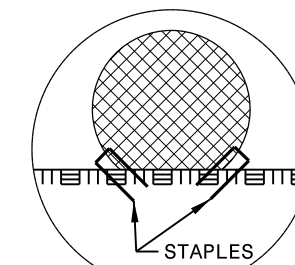
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

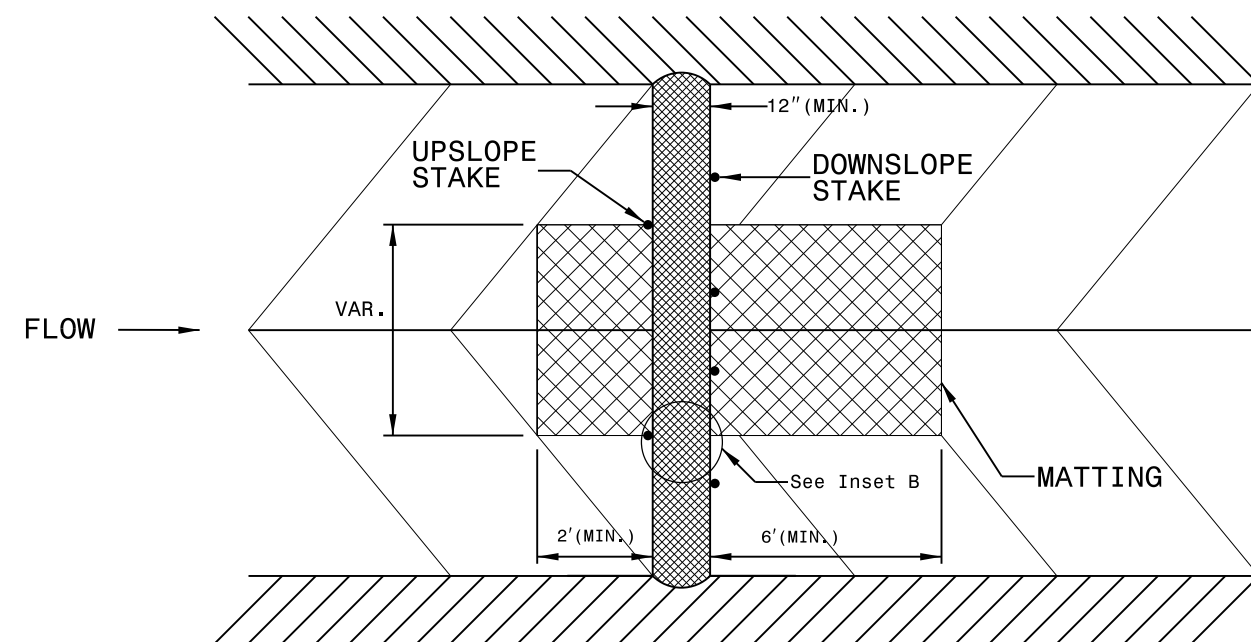
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



**INSET A**



**INSET B**



**TOP VIEW**

PROJECT NO.	SHEET NO.
2021CPT.03.30.10711, Etc.	10

# SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0106000000-E	1220000000-E	1245000000-E	1297000000-E		1308000000-E	1330000000-E	1491000000-E	1519000000-E	1520000000-E	1523000000-E	1526000000-E		
												BORROW EXCAVATION	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1" MILLING	1.5" MILLING	0" - 1.5" MILLING	INCIDENTAL MILLING	BASE COURSE, B25.0C	SURFACE COURSE, S9.5B	LEVELING COURSE, S9.5B	SURFACE COURSE, S9.5C	SURFACE COURSE, S4.75A		
												MI	FT	CY	TON	SMI	SY	SY	SY	SY	TONS	TON	TON	TON	TON
2021CPT.03.30.10711	Pender	1	NC 210 HWY.	FROM SR 1409 (LITTLE KELLY RD.) TO US 421 HWY. [MP 33.77 - MP 39.80]	1, 4	2	2WU	NO	NO	6.03	24 - 27	921	344	12.06	613			4,443					7,527		
<b>TOTAL FOR MAP NO. 1</b>												<b>6.03</b>		<b>921</b>	<b>344</b>	<b>12.06</b>	<b>613</b>			<b>4,443</b>				<b>7,527</b>	
<b>TOTAL FOR PROJ NO. 2021CPT.03.30.10711</b>												<b>6.03</b>		<b>921</b>	<b>344</b>	<b>12.06</b>	<b>613</b>			<b>4,443</b>				<b>7,527</b>	
												<b>613</b>													
2021CPT.03.30.20711	Pender	2	SR 1409 (LITTLE KELLY ROAD)	FROM SR 1410 (KELLYVILLE RD.) TO NC 210 HWY. [MP 2.50 - MP 5.37]	2	2	2WU	NO	NO	2.87	20	438	166	5.74				899	268	2,856					
<b>TOTAL FOR MAP NO. 2</b>												<b>2.87</b>		<b>438</b>	<b>166</b>	<b>5.74</b>				<b>899</b>	<b>268</b>	<b>2,856</b>			
2021CPT.03.30.20711	Pender	3	SR 1113 (MONTAGUE ROAD)	FROM NC HWY 210 TO US HWY 421 [MP 0.00 - MP 0.87]	2	2	2WU	NO	NO	0.87	20	133	52	1.74				334		847					
<b>TOTAL FOR MAP NO. 3</b>												<b>0.87</b>		<b>133</b>	<b>52</b>	<b>1.74</b>				<b>334</b>		<b>847</b>			
2021CPT.03.30.20711	Pender	4	SR 1332 (PENDERLEA HIGHWAY)	FROM SR 1400 (N. SMITH ST.) TO CORAS GROVE RD. [MP 0.00 - MP 3.76]	2, 4	2	2WU	NO	NO	3.76	20 - 27	574	232	7.52	800	4,811		4,910		4,003					
<b>TOTAL FOR MAP NO. 4</b>												<b>3.76</b>		<b>574</b>	<b>232</b>	<b>7.52</b>	<b>800</b>	<b>4,811</b>		<b>4,910</b>		<b>4,003</b>			
2021CPT.03.30.20711	Pender	5	SR 1344 (WEST WALLACE STREET)	FROM N. DICKERSON ST. TO SR 1332 (PENDERLEA HWY.) [MP 0.00 - MP 0.55]	2	2	2WU	NO	NO	0.55	22			1.10		4,001		566		609					
<b>TOTAL FOR MAP NO. 5</b>												<b>0.55</b>				<b>1.10</b>		<b>4,001</b>		<b>566</b>		<b>609</b>			
2021CPT.03.30.20711	Pender	6	SR 1400 (NORTH SMITH STREET)	FROM NC 53 HWY. (W. WILMINGTON ST.) TO END OF MAINTENANCE [MP 9.21 - MP 9.61]	3	2	2WU	NO	NO	0.40	22	31	20	0.30			736	369		568					
<b>TOTAL FOR MAP NO. 6</b>												<b>0.40</b>		<b>31</b>	<b>20</b>	<b>0.30</b>			<b>736</b>	<b>369</b>		<b>568</b>			
2021CPT.03.30.20711	Pender	7	SR 1426 (CHESHIRE ROAD)	FROM NC HWY. 210 TO NC HWY. 133 [MP 0.02 - MP 1.40]	2	2	2WU	NO	NO	1.38	20	211	66	2.76				468		1,364	20				
<b>TOTAL FOR MAP NO. 7</b>												<b>1.38</b>		<b>211</b>	<b>66</b>	<b>2.76</b>				<b>468</b>		<b>1,364</b>	<b>20</b>		
<b>TOTAL FOR PROJ NO. 2021CPT.03.30.20711</b>												<b>9.83</b>		<b>1,387</b>	<b>536</b>	<b>19.16</b>	<b>800</b>	<b>8,812</b>	<b>736</b>	<b>7,546</b>	<b>268</b>	<b>10,247</b>	<b>20</b>		
												<b>9,612</b>													
36248.124	Pender	8	CREWS AVENUE	FROM NC 50 HWY. (S. ANDERSON BLVD.) TO CAROLINA BLVD. [MP 0.00 - MP 0.03]	5	2	2WU	NO	NO	0.03	18												25		
<b>TOTAL FOR MAP NO. 8</b>												<b>0.03</b>												<b>25</b>	
36248.124	Pender	9	CAROLINA BOULEVARD	FROM CREWS AVE. TO SR 1553 (DAVIS AVE.) [MP 0.00 - MP 0.13]	5	2	2WU	NO	NO	0.22	18.5												102		
<b>TOTAL FOR MAP NO. 9</b>												<b>0.22</b>											<b>102</b>		
36248.124	Pender	10	CHANNEL BOULEVARD	FROM DAVIS AVE. TO MARITIME WAY [MP 0.00 - MP 0.05]	5	2	2WU	NO	NO	0.05	18												28		
<b>TOTAL FOR MAP NO. 10</b>												<b>0.05</b>											<b>28</b>		
36248.124	Pender	11	BRIDGERS AVENUE	FROM MARITIME WAY TO EMPIE AVE. [MP 0.00 - MP 0.31]	5	2	2WU	NO	NO	0.31	20												160		
<b>TOTAL FOR MAP NO. 11</b>												<b>0.31</b>											<b>160</b>		
36248.124	Pender	12	INLET AVENUE	PARKING LOT (ONLY) TO INTERSECTION [MP 0.00 - MP 0.01]	5	2		NO	NO	0.01	76												25		
<b>TOTAL FOR MAP NO. 12</b>												<b>0.01</b>											<b>25</b>		
<b>TOTAL FOR PROJ NO. 36248.124</b>												<b>0.62</b>											<b>340</b>		
<b>GRAND TOTAL</b>												<b>16.48</b>		<b>2,308</b>	<b>880</b>	<b>31.22</b>	<b>1,413</b>	<b>8,812</b>	<b>736</b>	<b>11,989</b>	<b>268</b>	<b>10,247</b>	<b>20</b>	<b>7,527</b>	<b>340</b>
												<b>10,225</b>													

PROJECT NO.	SHEET NO.
2021CPT.03.30.10711, Etc.	11

# SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	1575000000-E	1880000000-E	2830000000-N	2845000000-N	6000000000-E	6009000000-E	6012000000-E	6015000000-E	6018000000-E	6021000000-E			
												ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT (MILL) GENERIC	LEVELING COURSE, S4.75A GENERIC	ADJUSTMENT OF MANHOLES	ADJUSTMENT OF METER OR VALVE BOX	TEMPORARY SILT FENCE	STONE FOR EC CLASS B	SEDIMENT CONTROL STONE	TEMPORARY MULCHING	SEED FOR TEMPORARY SEEDING	FERTILIZER FOR TEMPORARY SEEDING		
												MI	FT	TON	TON	TON	EA	EA	LF	TON	TON	ACR	LBS	TON
2021CPT.03.30.10711	Pender	1	NC 210 HWY.	FROM SR 1409 (LITTLE KELLY RD.) TO US 421 HWY. [MP 33.77 - MP 39.80]	1, 4	2	2WU	NO	NO	6.03	24 - 27	452	250			603	151	151	6.03	302	1.51			
<b>TOTAL FOR MAP NO. 1</b>												<b>6.03</b>		<b>452</b>	<b>250</b>			<b>603</b>	<b>151</b>	<b>151</b>	<b>6.03</b>	<b>302</b>	<b>1.51</b>	
<b>TOTAL FOR PROJ NO. 2021CPT.03.30.10711</b>												<b>6.03</b>		<b>452</b>	<b>250</b>			<b>603</b>	<b>151</b>	<b>151</b>	<b>6.03</b>	<b>302</b>	<b>1.51</b>	
												<b>250</b>												
2021CPT.03.30.20711	Pender	2	SR 1409 (LITTLE KELLY ROAD)	FROM SR 1410 (KELLYVILLE RD.) TO NC 210 HWY. [MP 2.50 - MP 5.37]	2	2	2WU	NO	NO	2.87	20	203	268			287	72	72	2.87	144	0.72			
<b>TOTAL FOR MAP NO. 2</b>												<b>2.87</b>		<b>203</b>	<b>268</b>			<b>287</b>	<b>72</b>	<b>72</b>	<b>2.87</b>	<b>144</b>	<b>0.72</b>	
2021CPT.03.30.20711	Pender	3	SR 1113 (MONTAGUE ROAD)	FROM NC HWY 210 TO US HWY 421 [MP 0.00 - MP 0.87]	2	2	2WU	NO	NO	0.87	20	57	60			100	25	25	0.87	44	0.22			
<b>TOTAL FOR MAP NO. 3</b>												<b>0.87</b>		<b>57</b>	<b>60</b>			<b>100</b>	<b>25</b>	<b>25</b>	<b>0.87</b>	<b>44</b>	<b>0.22</b>	
2021CPT.03.30.20711	Pender	4	SR 1332 (PENDERLEA HIGHWAY)	FROM SR 1400 (N. SMITH ST.) TO CORAS GROVE RD. [MP 0.00 - MP 3.76]	2, 4	2	2WU	NO	NO	3.76	20 - 27	268	750		1	376	94	94	3.76	188	0.94			
<b>TOTAL FOR MAP NO. 4</b>												<b>3.76</b>		<b>268</b>	<b>750</b>		<b>1</b>	<b>376</b>	<b>94</b>	<b>94</b>	<b>3.76</b>	<b>188</b>	<b>0.94</b>	
2021CPT.03.30.20711	Pender	5	SR 1344 (WEST WALLACE STREET)	FROM N. DICKERSON ST. TO SR 1332 (PENDERLEA HWY.) [MP 0.00 - MP 0.55]	2	2	2WU	NO	NO	0.55	22	41	20		3	55	20	20	0.55	28	0.14			
<b>TOTAL FOR MAP NO. 5</b>												<b>0.55</b>		<b>41</b>	<b>20</b>		<b>3</b>	<b>55</b>	<b>20</b>	<b>20</b>	<b>0.55</b>	<b>28</b>	<b>0.14</b>	
2021CPT.03.30.20711	Pender	6	SR 1400 (NORTH SMITH STREET)	FROM NC 53 HWY. (W. WILMINGTON ST.) TO END OF MAINTENANCE [MP 9.21 - MP 9.61]	3	2	2WU	NO	NO	0.40	22	38	150			50	20	20	0.20	15	0.05			
<b>TOTAL FOR MAP NO. 6</b>												<b>0.40</b>		<b>38</b>	<b>150</b>			<b>50</b>	<b>20</b>	<b>20</b>	<b>0.20</b>	<b>15</b>	<b>0.05</b>	
2021CPT.03.30.20711	Pender	7	SR 1426 (CHESHIRE ROAD)	FROM NC HWY. 210 TO NC HWY. 133 [MP 0.02 - MP 1.40]	2	2	2WU	NO	NO	1.38	20	91	100			138	35	35	1.38	70	0.35			
<b>TOTAL FOR MAP NO. 7</b>												<b>1.38</b>		<b>91</b>	<b>100</b>			<b>138</b>	<b>35</b>	<b>35</b>	<b>1.38</b>	<b>70</b>	<b>0.35</b>	
<b>TOTAL FOR PROJ NO. 2021CPT.03.30.20711</b>												<b>9.83</b>		<b>698</b>	<b>1,348</b>		<b>1</b>	<b>3</b>	<b>1,006</b>	<b>266</b>	<b>266</b>	<b>9.63</b>	<b>489</b>	<b>2.42</b>
												<b>1,348</b>												
36248.124	Pender	8	CREWS AVENUE	FROM NC 50 HWY. (S. ANDERSON BLVD.) TO CAROLINA BLVD. [MP 0.00 - MP 0.03]	5	2	2WU	NO	NO	0.03	18	2												
<b>TOTAL FOR MAP NO. 8</b>												<b>0.03</b>		<b>2</b>										
36248.124	Pender	9	CAROLINA BOULEVARD	FROM CREWS AVE. TO SR 1553 (DAVIS AVE.) [MP 0.00 - MP 0.13]	5	2	2WU	NO	NO	0.22	18.5	7			20									
<b>TOTAL FOR MAP NO. 9</b>												<b>0.22</b>		<b>7</b>			<b>20</b>							
36248.124	Pender	10	CHANNEL BOULEVARD	FROM DAVIS AVE. TO MARITIME WAY [MP 0.00 - MP 0.05]	5	2	2WU	NO	NO	0.05	18	2												
<b>TOTAL FOR MAP NO. 10</b>												<b>0.05</b>		<b>2</b>										
36248.124	Pender	11	BRIDGERS AVENUE	FROM MARITIME WAY TO EMPIE AVE. [MP 0.00 - MP 0.31]	5	2	2WU	NO	NO	0.31	20	11	5	18										
<b>TOTAL FOR MAP NO. 11</b>												<b>0.31</b>		<b>11</b>	<b>5</b>	<b>18</b>								
36248.124	Pender	12	INLET AVENUE	PARKING LOT (ONLY) TO INTERSECTION [MP 0.00 - MP 0.01]	5	2		NO	NO	0.01	76	2												
<b>TOTAL FOR MAP NO. 12</b>												<b>0.01</b>		<b>2</b>										
<b>TOTAL FOR PROJ NO. 36248.124</b>												<b>0.62</b>		<b>24</b>	<b>5</b>	<b>38</b>								
												<b>43</b>												
<b>GRAND TOTAL</b>												<b>16.48</b>		<b>1,174</b>	<b>1,603</b>	<b>38</b>	<b>1</b>	<b>3</b>	<b>1,609</b>	<b>417</b>	<b>417</b>	<b>15.66</b>	<b>791</b>	<b>3.93</b>
												<b>1,641</b>												

PROJECT NO.	SHEET NO.
2021CPT.03.30.10711, Etc.	12

## SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	6036000000-E	6042000000-E	6071010000-E	6084000000-E	6090000000-E	6093000000-E	6117000000-N	
												MATting FOR EROSION CONTROL	1/4" HARDWARE CLOTH	WATTLE	SEED & MULCHING	SEED FOR REPAIR SEEDING	FERTILIZER FOR REPAIR SEEDING	RESPONSE FOR EROSION CONTROL	
											MI	FT	SY	LF	LF	AC	LB	TON	EA
2021CPT.03.30.10711	Pender	1	NC 210 HWY.	FROM SR 1409 (LITTLE KELLY RD.) TO US 421 HWY. [MP 33.77 - MP 39.80]	1, 4	2	2WU	NO	NO	6.03	24 - 27	40	300	100	5.85	302	1.51	8	
<b>TOTAL FOR MAP NO. 1</b>											<b>6.03</b>		<b>40</b>	<b>300</b>	<b>100</b>	<b>5.85</b>	<b>302</b>	<b>1.51</b>	<b>8</b>
<b>TOTAL FOR PROJ NO. 2021CPT.03.30.10711</b>											<b>6.03</b>		<b>40</b>	<b>300</b>	<b>100</b>	<b>5.85</b>	<b>302</b>	<b>1.51</b>	<b>8</b>
2021CPT.03.30.20711	Pender	2	SR 1409 (LITTLE KELLY ROAD)	FROM SR 1410 (KELLYVILLE RD.) TO NC 210 HWY. [MP 2.50 - MP 5.37]	2	2	2WU	NO	NO	2.87	20	20	144	50	2.78	144	0.72	6	
<b>TOTAL FOR MAP NO. 2</b>											<b>2.87</b>		<b>20</b>	<b>144</b>	<b>50</b>	<b>2.78</b>	<b>144</b>	<b>0.72</b>	<b>6</b>
2021CPT.03.30.20711	Pender	3	SR 1113 (MONTAGUE ROAD)	FROM NC HWY 210 TO US HWY 421 [MP 0.00 - MP 0.87]	2	2	2WU	NO	NO	0.87	20	20	50	20	0.84	44	0.22	3	
<b>TOTAL FOR MAP NO. 3</b>											<b>0.87</b>		<b>20</b>	<b>50</b>	<b>20</b>	<b>0.84</b>	<b>44</b>	<b>0.22</b>	<b>3</b>
2021CPT.03.30.20711	Pender	4	SR 1332 (PENDERLEA HIGHWAY)	FROM SR 1400 (N. SMITH ST.) TO CORAS GROVE RD. [MP 0.00 - MP 3.76]	2, 4	2	2WU	NO	NO	3.76	20 - 27	30	188	60	3.65	188	0.94	6	
<b>TOTAL FOR MAP NO. 4</b>											<b>3.76</b>		<b>30</b>	<b>188</b>	<b>60</b>	<b>3.65</b>	<b>188</b>	<b>0.94</b>	<b>6</b>
2021CPT.03.30.20711	Pender	5	SR 1344 (WEST WALLACE STREET)	FROM N. DICKERSON ST. TO SR 1332 (PENDERLEA HWY.) [MP 0.00 - MP 0.55]	2	2	2WU	NO	NO	0.55	22	20	50	20	0.53	28	0.14	4	
<b>TOTAL FOR MAP NO. 5</b>											<b>0.55</b>		<b>20</b>	<b>50</b>	<b>20</b>	<b>0.53</b>	<b>28</b>	<b>0.14</b>	<b>4</b>
2021CPT.03.30.20711	Pender	6	SR 1400 (NORTH SMITH STREET)	FROM NC 53 HWY. (W. WILMINGTON ST.) TO END OF MAINTENANCE [MP 9.21 - MP 9.61]	3	2	2WU	NO	NO	0.4	22	20	50	20	0.19	15	0.05	4	
<b>TOTAL FOR MAP NO. 6</b>											<b>0.4</b>		<b>20</b>	<b>50</b>	<b>20</b>	<b>0.19</b>	<b>15</b>	<b>0.05</b>	<b>4</b>
2021CPT.03.30.20711	Pender	7	SR 1426 (CHESHIRE ROAD)	FROM NC HWY. 210 TO NC HWY. 133 [MP 0.02 - MP 1.40]	2	2	2WU	NO	NO	1.38	20	20	70	30	1.34	70	0.35	6	
<b>TOTAL FOR MAP NO. 7</b>											<b>1.38</b>		<b>20</b>	<b>70</b>	<b>30</b>	<b>1.34</b>	<b>70</b>	<b>0.35</b>	<b>6</b>
<b>TOTAL FOR PROJ NO. 2021CPT.03.30.20711</b>											<b>9.83</b>		<b>130</b>	<b>552</b>	<b>200</b>	<b>9.33</b>	<b>489</b>	<b>2.42</b>	<b>29</b>
36248.124	Pender	8	CREWS AVENUE	FROM NC 50 HWY. (S. ANDERSON BLVD.) TO CAROLINA BLVD. [MP 0.00 - MP 0.03]	5	2	2WU	NO	NO	0.03	18								
<b>TOTAL FOR MAP NO. 8</b>											<b>0.03</b>								
36248.124	Pender	9	CAROLINA BOULEVARD	FROM CREWS AVE. TO SR 1553 (DAVIS AVE.) [MP 0.00 - MP 0.13]	5	2	2WU	NO	NO	0.22	18.5								
<b>TOTAL FOR MAP NO. 9</b>											<b>0.22</b>								
36248.124	Pender	10	CHANNEL BOULEVARD	FROM DAVIS AVE. TO MARITIME WAY [MP 0.00 - MP 0.05]	5	2	2WU	NO	NO	0.05	18								
<b>TOTAL FOR MAP NO. 10</b>											<b>0.05</b>								
36248.124	Pender	11	BRIDGERS AVENUE	FROM MARITIME WAY TO EMPIE AVE. [MP 0.00 - MP 0.31]	5	2	2WU	NO	NO	0.31	20								
<b>TOTAL FOR MAP NO. 11</b>											<b>0.31</b>								
36248.124	Pender	12	INLET AVENUE	PARKING LOT (ONLY) TO INTERSECTION [MP 0.00 - MP 0.01]	5	2		NO	NO	0.01	76								
<b>TOTAL FOR MAP NO. 12</b>											<b>0.01</b>								
<b>TOTAL FOR PROJ NO. 36248.124</b>											<b>0.62</b>								
<b>GRAND TOTAL</b>											<b>16.48</b>		<b>170</b>	<b>852</b>	<b>300</b>	<b>15.18</b>	<b>791</b>	<b>3.93</b>	<b>37</b>

# THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	441300000-E	445700000-N	468500000-E		469500000-E	472000000-E	472500000-E				481000000-E		489100000-E							
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	8" X 90 M YELLOW THERMO	THERMO MSG SCHOOL 90 M	THERMO LT ARROW 90 M	THERMO STR ARROW 90 M	THERMO STR & RT ARROW 90 M	THERMO RT ARROW 90 M	4" WHITE PAINT	4" YELLOW PAINT	24" X 90 M WHITE THERMO							
									MI	FT	SF	LS	LF	LF	LF	EA	EA	EA	EA	EA	LF	LF	LF						
2021CPT.03.30.10711	Pender	1	NC 210 HWY.	FROM SR 1409 (LITTLE KELLY RD.) TO US 421 HWY. [MP 33.77 - MP 39.80]	1, 4	2	2WU	6.03	24 - 27	675	0.35	65,365	59,716	300	12	4	2	2	1			100							
<b>TOTAL FOR MAP NO. 1</b>									<b>6.03</b>		<b>675</b>	<b>0.35</b>	<b>65,365</b>	<b>59,716</b>	<b>300</b>	<b>12</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>1</b>		<b>100</b>							
<b>TOTAL FOR PROJ NO. 2021CPT.03.30.10711</b>									<b>6.03</b>		<b>675</b>	<b>0.35</b>	<b>65,365</b>	<b>59,716</b>	<b>300</b>	<b>12</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>1</b>			<b>100</b>						
												<b>125,081</b>										<b>9</b>							
2021CPT.03.30.20711	Pender	2	SR 1409 (LITTLE KELLY ROAD)	FROM SR 1410 (KELLYVILLE RD.) TO NC 210 HWY. [MP 2.50 - MP 5.37]	2	2	2WU	2.87	20	321	0.17										59,136	44,100							
<b>TOTAL FOR MAP NO. 2</b>									<b>2.87</b>		<b>321</b>	<b>0.17</b>										<b>59,136</b>	<b>44,100</b>						
2021CPT.03.30.20711	Pender	3	SR 1113 (MONTAGUE ROAD)	FROM NC HWY 210 TO US HWY 421 [MP 0.00 - MP 0.87]	2	2	2WU	0.87	20		0.05										18,374	13,280							
<b>TOTAL FOR MAP NO. 3</b>									<b>0.87</b>			<b>0.05</b>										<b>18,374</b>	<b>13,280</b>						
2021CPT.03.30.20711	Pender	4	SR 1332 (PENDERLEA HIGHWAY)	FROM SR 1400 (N. SMITH ST.) TO CORAS GROVE RD. [MP 0.00 - MP 3.76]	2, 4	2	2WU	3.76	20 - 27	421	0.23										79,710	60,612							
<b>TOTAL FOR MAP NO. 4</b>									<b>3.76</b>		<b>421</b>	<b>0.23</b>										<b>79,710</b>	<b>60,612</b>						
2021CPT.03.30.20711	Pender	5	SR 1344 (WEST WALLACE STREET)	FROM N. DICKERSON ST. TO SR 1332 (PENDERLEA HWY.) [MP 0.00 - MP 0.55]	2	2	2WU	0.55	22		0.03										11,616	6,996							
<b>TOTAL FOR MAP NO. 5</b>									<b>0.55</b>			<b>0.03</b>										<b>11,616</b>	<b>6,996</b>						
2021CPT.03.30.20711	Pender	6	SR 1400 (NORTH SMITH STREET)	FROM NC 53 HWY. (W. WILMINGTON ST.) TO END OF MAINTENANCE [MP 9.21 - MP 9.61]	3	2	2WU	0.4	22		0.02										8,448	6,336							
<b>TOTAL FOR MAP NO. 6</b>									<b>0.4</b>			<b>0.02</b>										<b>8,448</b>	<b>6,336</b>						
2021CPT.03.30.20711	Pender	7	SR 1426 (CHESHIRE ROAD)	FROM NC HWY. 210 TO NC HWY. 133 [MP 0.02 - MP 1.40]	2	2	2WU	1.38	20		0.08										29,600	19,600							
<b>TOTAL FOR MAP NO. 7</b>									<b>1.38</b>			<b>0.08</b>											<b>29,600</b>	<b>19,600</b>					
<b>TOTAL FOR PROJ NO. 2021CPT.03.30.20711</b>									<b>9.83</b>		<b>742</b>	<b>0.58</b>												<b>206,884</b>	<b>150,924</b>				
																						<b>357,808</b>							
36248.124	Pender	8	CREWS AVENUE	FROM NC 50 HWY. (S. ANDERSON BLVD.) TO CAROLINA BLVD. [MP 0.00 - MP 0.03]	5	2	2WU	0.03	18		0.01																		
<b>TOTAL FOR MAP NO. 8</b>									<b>0.03</b>			<b>0.01</b>																	
36248.124	Pender	9	CAROLINA BOULEVARD	FROM CREWS AVE. TO SR 1553 (DAVIS AVE.) [MP 0.00 - MP 0.13]	5	2	2WU	0.22	18.5		0.02																		
<b>TOTAL FOR MAP NO. 9</b>									<b>0.22</b>			<b>0.02</b>																	
36248.124	Pender	10	CHANNEL BOULEVARD	FROM DAVIS AVE. TO MARITIME WAY [MP 0.00 - MP 0.05]	5	2	2WU	0.05	18		0.01																		
<b>TOTAL FOR MAP NO. 10</b>									<b>0.05</b>			<b>0.01</b>																	
36248.124	Pender	11	BRIDGERS AVENUE	FROM MARITIME WAY TO EMPIE AVE. [MP 0.00 - MP 0.31]	5	2	2WU	0.31	20		0.02																		
<b>TOTAL FOR MAP NO. 11</b>									<b>0.31</b>			<b>0.02</b>																	
36248.124	Pender	12	INLET AVENUE	PARKING LOT (ONLY) TO INTERSECTION [MP 0.00 - MP 0.01]	5	2		0.01	76		0.01																		
<b>TOTAL FOR MAP NO. 12</b>									<b>0.01</b>			<b>0.01</b>																	
<b>TOTAL FOR PROJ NO. 36248.124</b>									<b>0.62</b>			<b>0.07</b>																	
<b>GRAND TOTAL</b>												<b>16.48</b>		<b>1,417</b>	<b>1.00</b>	<b>65,365</b>	<b>59,716</b>	<b>300</b>	<b>12</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>206,884</b>	<b>150,924</b>	<b>100</b>			
																<b>125,081</b>										<b>9</b>	<b>357,808</b>		



PROJECT NO.	SHEET NO.
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## THERMOPLASTIC AND PAINT QUANTITIES

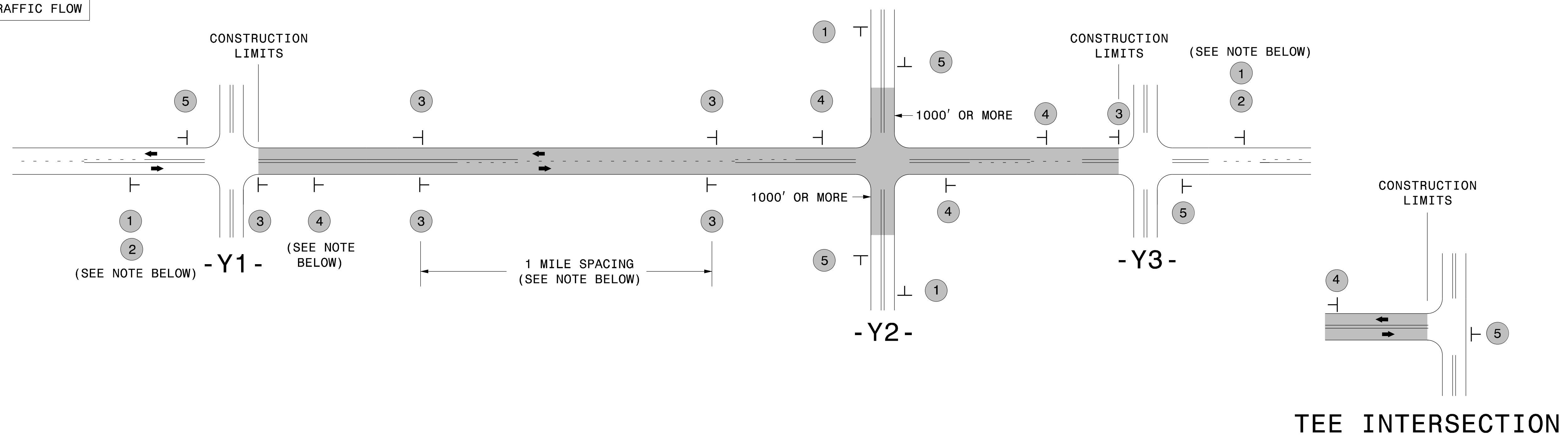
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4895000000-N		4900000000-N
										NON CAST IRON SNOW PLOWABLE MARKERS (Y/Y) GENERIC	NON CAST IRON SNOW PLOWABLE MARKERS (C/R) GENERIC	YELLOW & YELLOW MARKERS
										EA	EA	EA
								MI	FT			
2021CPT.03.30.10711	Pender	1	NC 210 HWY.	FROM SR 1409 (LITTLE KELLY RD.) TO US 421 HWY. [MP 33.77 - MP 39.80]	1, 4	2	2WU	6.03	24 - 27	477	6	
<b>TOTAL FOR MAP NO. 1</b>								<b>6.03</b>		<b>477</b>	<b>6</b>	
<b>TOTAL FOR PROJ NO. 2021CPT.03.30.10711</b>								<b>6.03</b>		<b>477</b>	<b>6</b>	
										<b>483</b>		
2021CPT.03.30.20711	Pender	2	SR 1409 (LITTLE KELLY ROAD)	FROM SR 1410 (KELLYVILLE RD.) TO NC 210 HWY. [MP 2.50 - MP 5.37]	2	2	2WU	2.87	20			185
<b>TOTAL FOR MAP NO. 2</b>								<b>2.87</b>				<b>185</b>
2021CPT.03.30.20711	Pender	3	SR 1113 (MONTAGUE ROAD)	FROM NC HWY 210 TO US HWY 421 [MP 0.00 - MP 0.87]	2	2	2WU	0.87	20			60
<b>TOTAL FOR MAP NO. 3</b>								<b>0.87</b>				<b>60</b>
2021CPT.03.30.20711	Pender	4	SR 1332 (PENDERLEA HIGHWAY)	FROM SR 1400 (N. SMITH ST.) TO CORAS GROVE RD. [MP 0.00 - MP 3.76]	2, 4	2	2WU	3.76	20 - 27			460
<b>TOTAL FOR MAP NO. 4</b>								<b>3.76</b>				<b>460</b>
2021CPT.03.30.20711	Pender	5	SR 1344 (WEST WALLACE STREET)	FROM N. DICKERSON ST. TO SR 1332 (PENDERLEA HWY.) [MP 0.00 - MP 0.55]	2	2	2WU	0.55	22			73
<b>TOTAL FOR MAP NO. 5</b>								<b>0.55</b>				<b>73</b>
2021CPT.03.30.20711	Pender	6	SR 1400 (NORTH SMITH STREET)	FROM NC 53 HWY. (W. WILMINGTON ST.) TO END OF MAINTENANCE [MP 9.21 - MP 9.61]	3	2	2WU	0.4	22			20
<b>TOTAL FOR MAP NO. 6</b>								<b>0.4</b>				<b>20</b>
2021CPT.03.30.20711	Pender	7	SR 1426 (CHESHIRE ROAD)	FROM NC HWY. 210 TO NC HWY. 133 [MP 0.02 - MP 1.40]	2	2	2WU	1.38	20			92
<b>TOTAL FOR MAP NO. 7</b>								<b>1.38</b>				<b>92</b>
<b>TOTAL FOR PROJ NO. 2021CPT.03.30.20711</b>								<b>9.83</b>				<b>890</b>
36248.124	Pender	8	CREWS AVENUE	FROM NC 50 HWY. (S. ANDERSON BLVD.) TO CAROLINA BLVD. [MP 0.00 - MP 0.03]	5	2	2WU	0.03	18			
<b>TOTAL FOR MAP NO. 8</b>								<b>0.03</b>				
36248.124	Pender	9	CAROLINA BOULEVARD	FROM CREWS AVE. TO SR 1553 (DAVIS AVE.) [MP 0.00 - MP 0.13]	5	2	2WU	0.22	18.5			
<b>TOTAL FOR MAP NO. 9</b>								<b>0.22</b>				
36248.124	Pender	10	CHANNEL BOULEVARD	FROM DAVIS AVE. TO MARITIME WAY [MP 0.00 - MP 0.05]	5	2	2WU	0.05	18			
<b>TOTAL FOR MAP NO. 10</b>								<b>0.05</b>				
36248.124	Pender	11	BRIDGERS AVENUE	FROM MARITIME WAY TO EMPIE AVE. [MP 0.00 - MP 0.31]	5	2	2WU	0.31	20			
<b>TOTAL FOR MAP NO. 11</b>								<b>0.31</b>				
36248.124	Pender	12	INLET AVENUE	PARKING LOT (ONLY) TO INTERSECTION [MP 0.00 - MP 0.01]	5	2		0.01	76			
<b>TOTAL FOR MAP NO. 12</b>								<b>0.01</b>				
<b>TOTAL FOR PROJ NO. 36248.124</b>								<b>0.62</b>				
<b>GRAND TOTAL</b>								<b>16.48</b>		<b>477</b>	<b>6</b>	<b>890</b>
										<b>483</b>		

# SIGNING FOR RESURFACING PROJECTS

**LEGEND**

┃ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW



## MAINLINE (-L-) SIGNING

## -Y- LINE SIGNING

<b>SIGNING NOTES AND PLACEMENT PER DIRECTION</b>	1	 <small>W20-1 48" X 48"</small>	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	
	2	 <small>W7-3aP 24" X 18"</small>	#2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)	
	3	 <small>SP 13107 48" X 48"</small>	- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.	
	4	 <small>SP 13106 48" X 48"</small>	- 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.	
	5	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	

**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

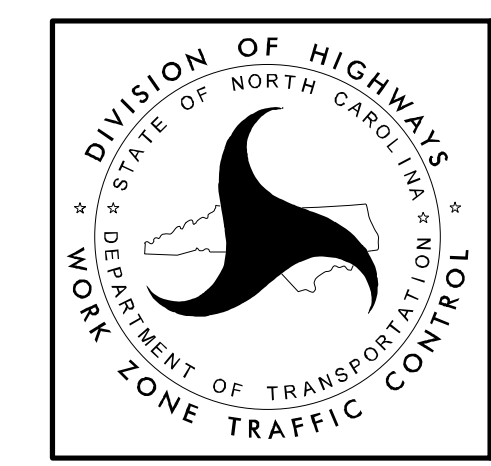
WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.

 <small>W20-1 48" X 48"</small> PLACED 500' IN ADVANCE OF FLAGGER.	 <small>W20-7 A 48" X 48"</small> PLACED 250' IN ADVANCE OF FLAGGER.
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THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.

### MAPS LESS THAN 2 MILES

FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.



**ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING**