

**CONTRACT: DA00433 WBS PROJECT: 2019CPT.01.04.20081.1, ETC.**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

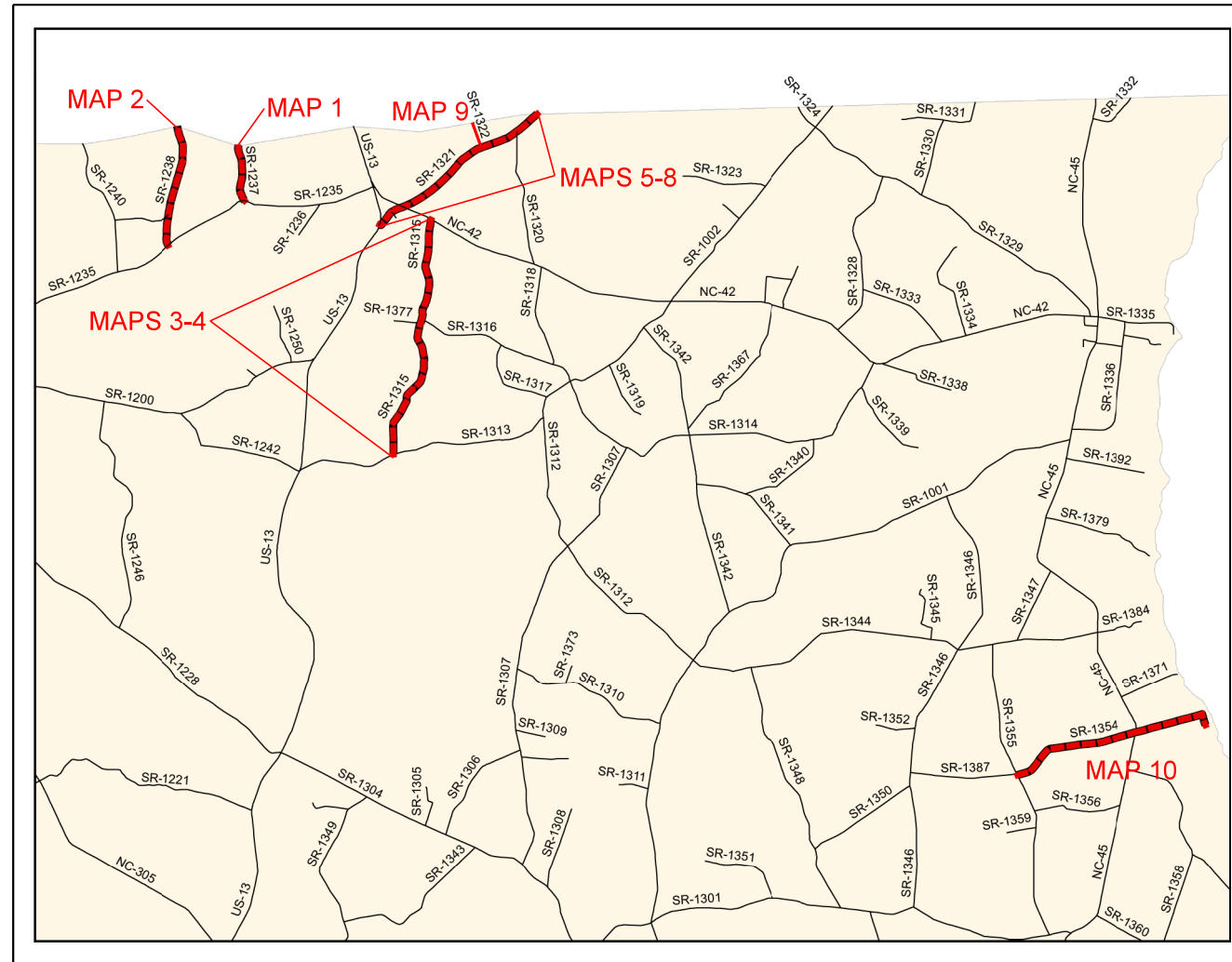
**BERTIE COUNTY**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.01.04.20081.1, ETC.	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2019CPT.01.04.20081.1		MAPS 1-10	



**LOCATION:** MAP 1 SR 1237 FROM HERTFORD CL TO SR 1235  
 MAP 2 SR 1238 FROM HERTFORD CL TO SR 1235  
 MAP 3 SR 1315 FROM SR 1316 TO NC 42  
 MAP 4 SR 1315 FROM SR 1316 TO SR 1313  
 MAP 5 SR 1321 FROM HERTFORD CL TO POWELLSVILLE  
 MAP 6 SR 1321 FROM POWELLSVILLE TO NC 42  
 MAP 7 SR 1321 FROM NC 42 TO END C&G  
 MAP 8 SR 1321 FROM END C&G TO US 13  
 MAP 9 SR 1322 FROM HERTFORD CL TO SR 1321  
 MAP 10 SR 1354 FROM DEAD END TO NC 45

**TYPE OF WORK: MILLING AND RESURFACING**



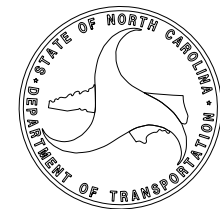
**NTS**

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT MAP 1 = 0.79 MI.  
 LENGTH OF ROADWAY PROJECT MAP 2 = 1.59 MI.  
 LENGTH OF ROADWAY PROJECT MAP 3 = 1.35 MI.  
 LENGTH OF ROADWAY PROJECT MAP 4 = 1.93 MI.  
 LENGTH OF ROADWAY PROJECT MAP 5 = 1.77 MI.  
 LENGTH OF ROADWAY PROJECT MAP 6 = 0.42 MI.  
 LENGTH OF ROADWAY PROJECT MAP 7 = 0.06 MI.  
 LENGTH OF ROADWAY PROJECT MAP 8 = 0.35 MI.  
 LENGTH OF ROADWAY PROJECT MAP 9 = 0.35 MI.  
 LENGTH OF ROADWAY PROJECT MAP 10 = 1.07 MI.

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
113 Airport Dr., Edenton NC, 27932

2018 STANDARD SPECIFICATIONS  LETTING DATE: 09/19/2018	<b>W.B. HOBBS, P.E.</b> DIVISION PROJECT MANAGER  <b>C.E. SLACHTA</b> DIVISION PROPOSALS ENGINEER
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**CONTRACT: DA00433      WBS PROJECT: 2019CPT.01.04.20081.1, ETC.**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

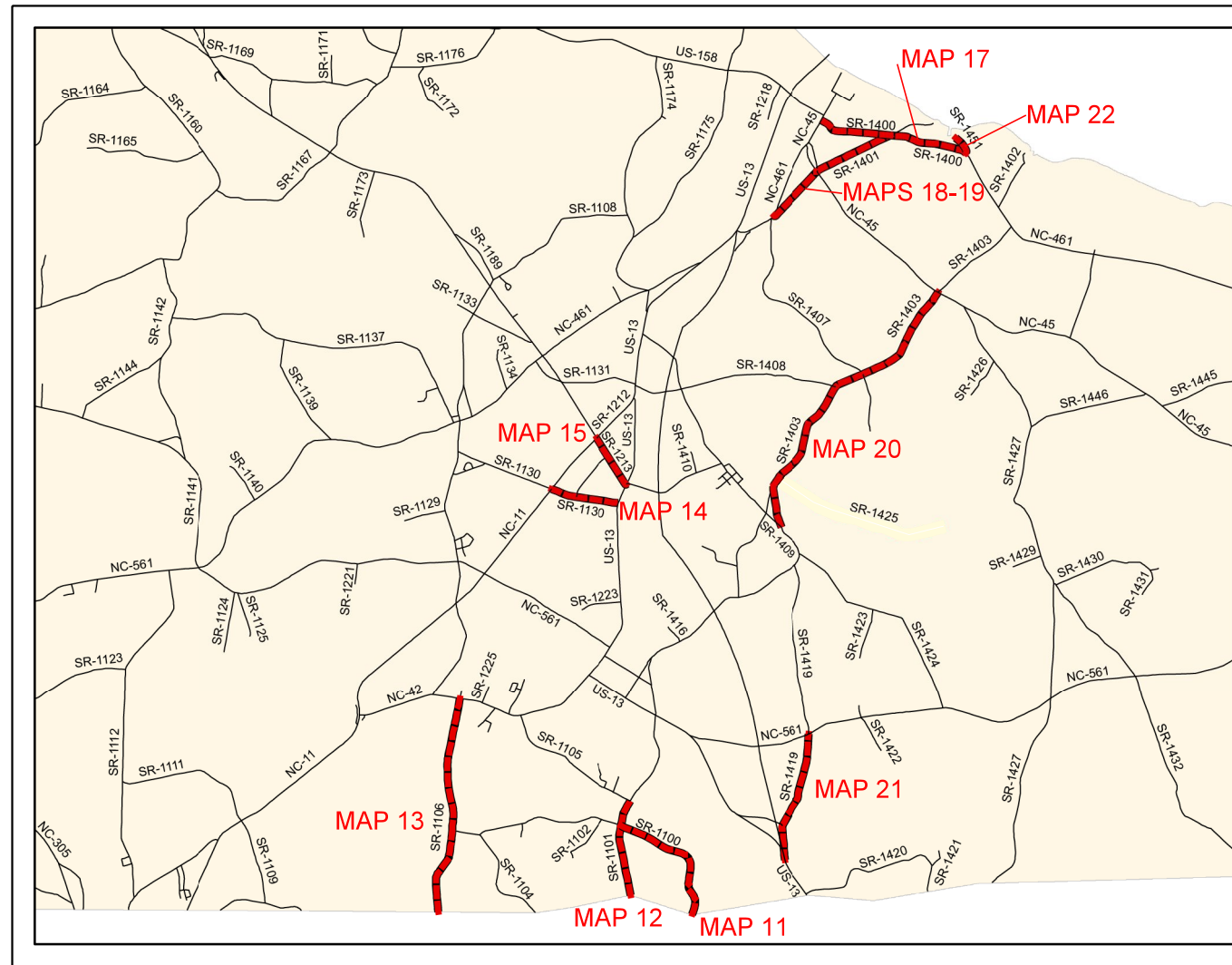
**HERTFORD COUNTY**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.01.04.20081.1, ETC.	2	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2019CPT.01.04.20461.1		MAPS 11-15	
2019CPT.01.04.20461.1		MAPS 17-22	



**LOCATION:** MAP 11 SR 1100 FROM BERTIE CL TO SR 1101  
 MAP 12 SR 1101 FROM BERTIE CL TO SR 1105  
 MAP 13 SR 1106 FROM BERTIE CL TO NC 42  
 MAP 14 SR 1130 FROM R-5311A PROJECT LIMITS TO US 13  
 MAP 15 SR 1213 FROM DEAD END TO US 13  
 MAP 17 SR 1400 FROM SR 1451 TO NC 45  
 MAP 18 SR 1401 FROM SR 1400 TO NC 45  
 MAP 19 SR 1401 FROM NC 45 TO NC 461  
 MAP 20 SR 1403 FROM NC 45 TO SR 1409  
 MAP 21 SR 1419 FROM NC 561 TO US 13  
 MAP 22 SR 1451 FROM DEAD END TO SR 1400

**TYPE OF WORK: MILLING AND RESURFACING**



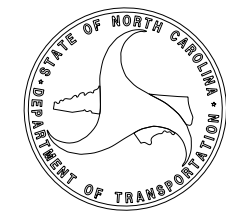
**NTS**

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT MAP 11 = 1.72 MI.  
 LENGTH OF ROADWAY PROJECT MAP 12 = 1.29 MI.  
 LENGTH OF ROADWAY PROJECT MAP 13 = 2.90 MI.  
 LENGTH OF ROADWAY PROJECT MAP 14 = 0.68 MI.  
 LENGTH OF ROADWAY PROJECT MAP 15 = 0.71 MI.  
 LENGTH OF ROADWAY PROJECT MAP 17 = 2.01 MI.  
 LENGTH OF ROADWAY PROJECT MAP 18 = 1.10 MI.  
 LENGTH OF ROADWAY PROJECT MAP 19 = 0.80 MI.  
 LENGTH OF ROADWAY PROJECT MAP 20 = 4.07 MI.  
 LENGTH OF ROADWAY PROJECT MAP 21 = 1.90 MI.  
 LENGTH OF ROADWAY PROJECT MAP 22 = 0.25 MI.

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
113 Airport Dr., Edenton NC, 27932

2018 STANDARD SPECIFICATIONS  LETTING DATE: 09/19/2018	<p style="text-align: center;"><b>W.B. HOBBS, P.E.</b> DIVISION PROJECT MANAGER</p> <p style="text-align: center;"><b>C.E. SLACHTA</b> DIVISION PROPOSALS ENGINEER</p>
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**CONTRACT: DA00433      WBS PROJECT: 2019CPT.01.04.20081.1, ETC.**



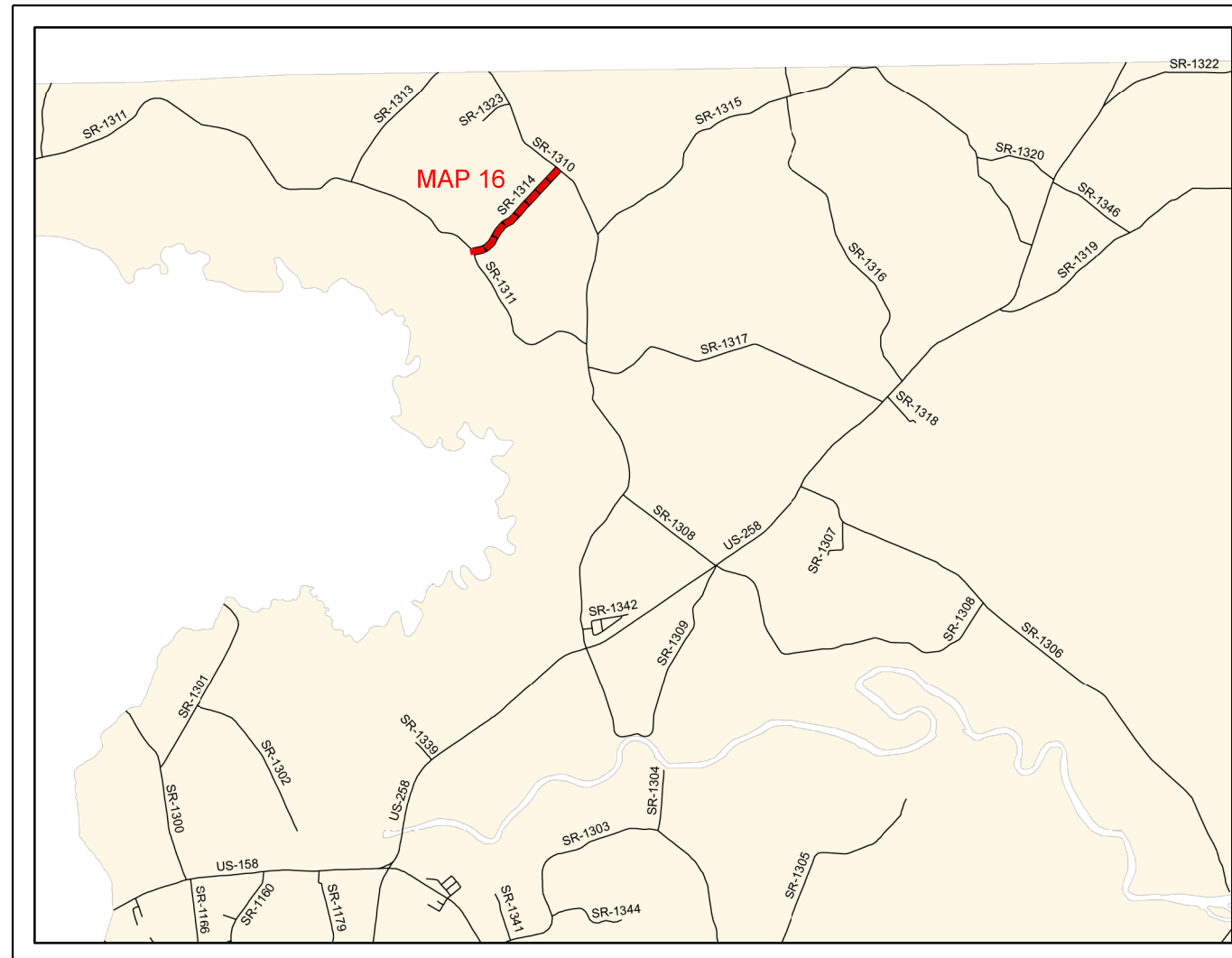
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

***HERTFORD COUNTY***

**LOCATION: MAP 16 SR 1314 FROM SR 1310 TO SR 1311**

**TYPE OF WORK: MILLING AND RESURFACING**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.01.04.20081.1, ETC.	3	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2019CPT.01.04.20461.1		MAP 16	



***NTS***

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT MAP 16 = 1.07 MI.

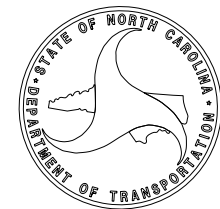
Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
113 Airport Dr., Edenton NC, 27932

2018 STANDARD SPECIFICATIONS

LETTING DATE:  
09/19/2018

**W.B. HOBBS, P.E.**  
DIVISION PROJECT MANAGER

**C.E. SLACHTA**  
DIVISION PROPOSALS ENGINEER

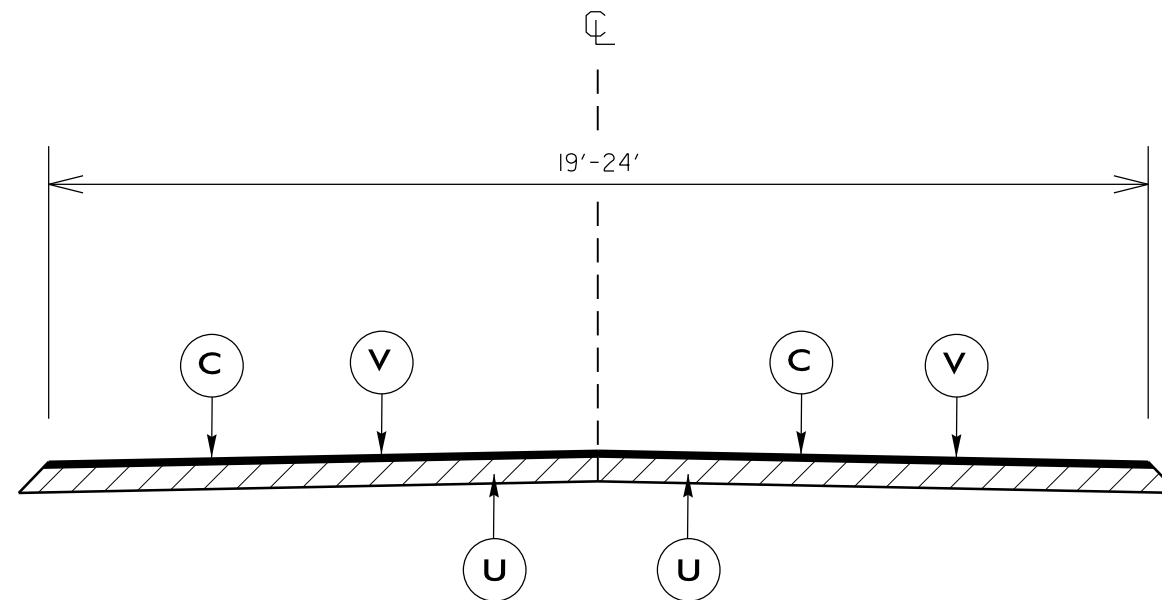


P A V E M E N T   S C H E D U L E

<b>C</b>	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
<b>U</b>	EXISTING PAVEMENT.
<b>V</b>	MILLING ASPHALT PAVEMENT. 1½" DEPTH.

NOTES:

- \*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER.
- \*CONTRACTOR SHALL PERFORM MILL PATCHING PRIOR TO RESURFACING ON SELECT MAPS AS DIRECTED BY THE ENGINEER.
- \*CONTRACTOR SHALL PERFORM FULL DEPTH PATCHING PRIOR TO RESURFACING ON SELECT MAPS AS DIRECTED BY THE ENGINEER.



**TYPICAL SECTION NO. 1**

USE WITH MAPS 1-3, 5, 8, 11-15 & 17-19

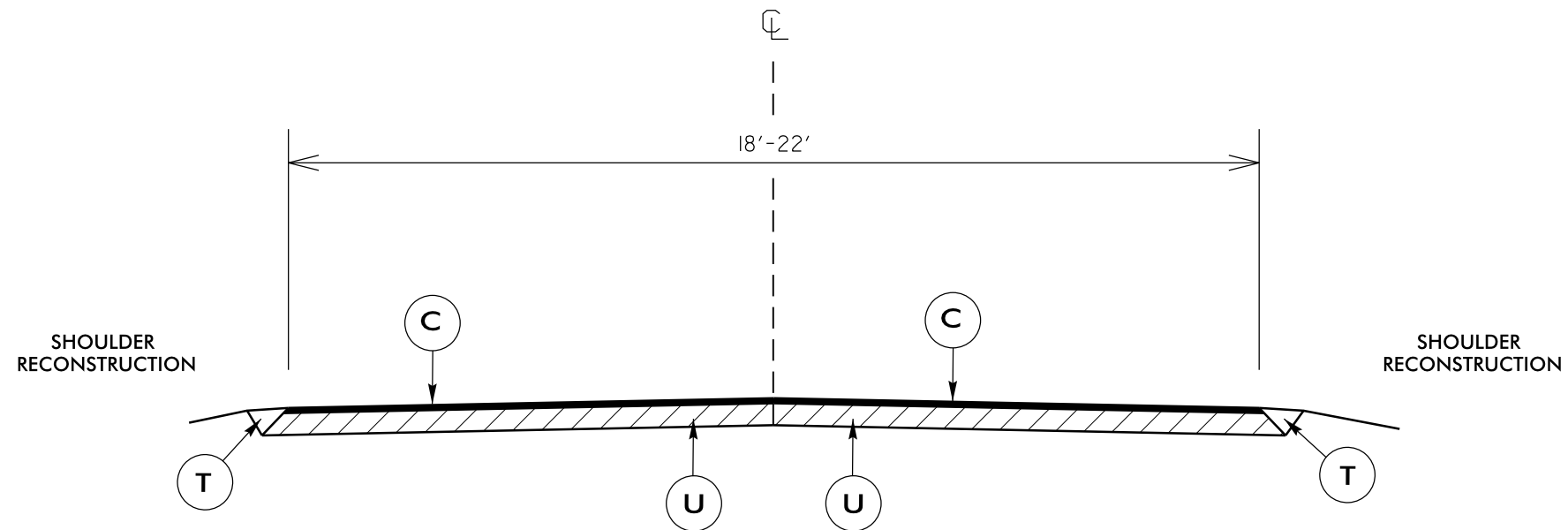
**NTS**

P A V E M E N T   S C H E D U L E

C	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.
T	EARTH MATERIAL.

NOTES:

- \*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII.,  
OR AS DIRECTED BY THE ENGINEER.
- \*CONTRACTOR SHALL PERFORM MILL PATCHING PRIOR TO RESURFACING  
ON SELECT MAPS AS DIRECTED BY THE ENGINEER.
- \*CONTRACTOR SHALL PERFORM FULL DEPTH PATCHING PRIOR TO  
RESURFACING ON SELECT MAPS AS DIRECTED BY THE ENGINEER.



**TYPICAL SECTION NO. 2**

USE WITH MAPS 4, 9-10, 16 & 20-22

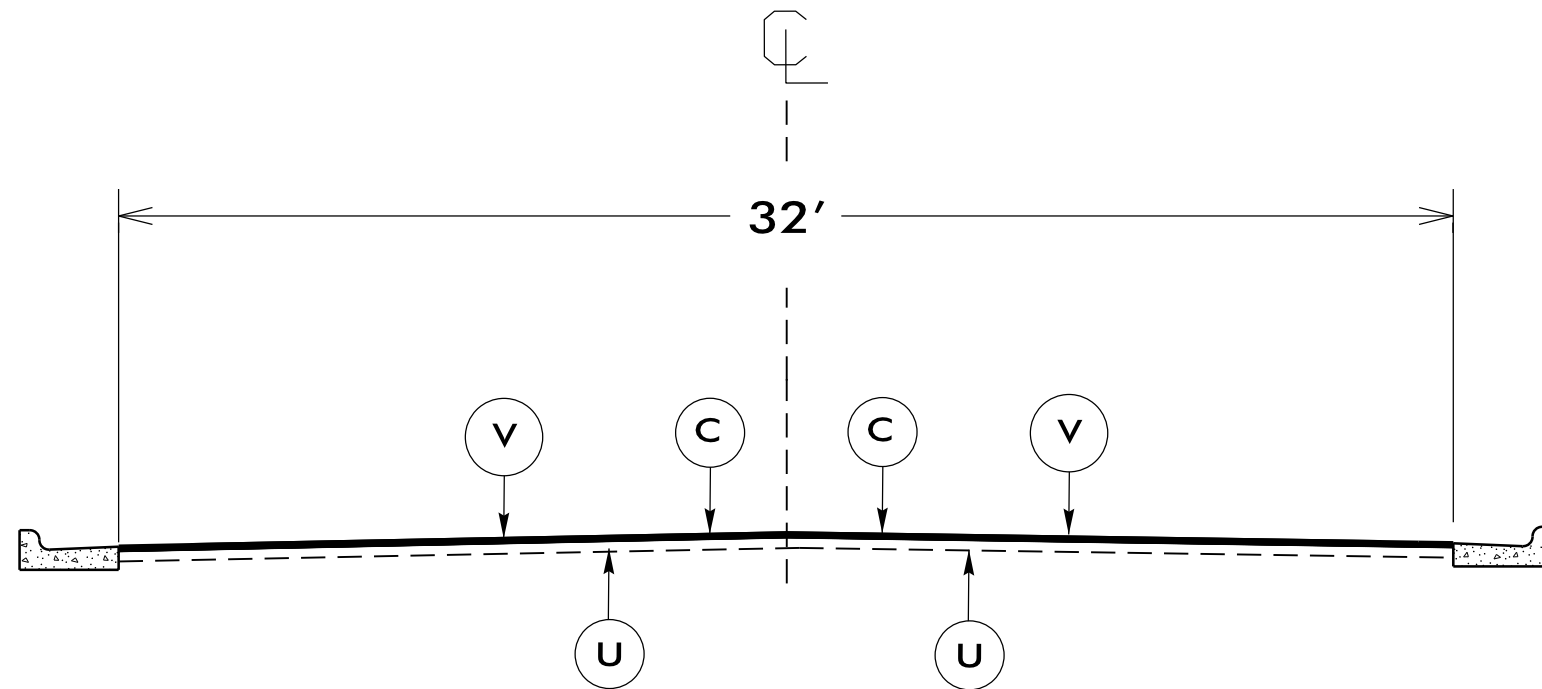
**NTS**

P A V E M E N T   S C H E D U L E

C	PROP. APPROX. 1 ½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V	MILLING ASPHALT PAVEMENT. 1 ½" IN DEPTH.
U	EXISTING PAVEMENT.

NOTES:

- \*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER
- \*CONTRACTOR SHALL PERFORM MILL PATCHING PRIOR TO RESURFACING ON SELECT MAPS AS DIRECTED BY THE ENGINEER.
- \*CONTRACTOR SHALL PERFORM FULL DEPTH PATCHING PRIOR TO RESURFACING ON SELECT MAPS AS DIRECTED BY THE ENGINEER.
- \*CONTRACTOR SHALL MILL 1.5" BELOW EXISTING EDGE OF CONC. CURB & GUTTER.



**TYPICAL SECTION NO. 3**

USE WITH MAPS 6 & 7

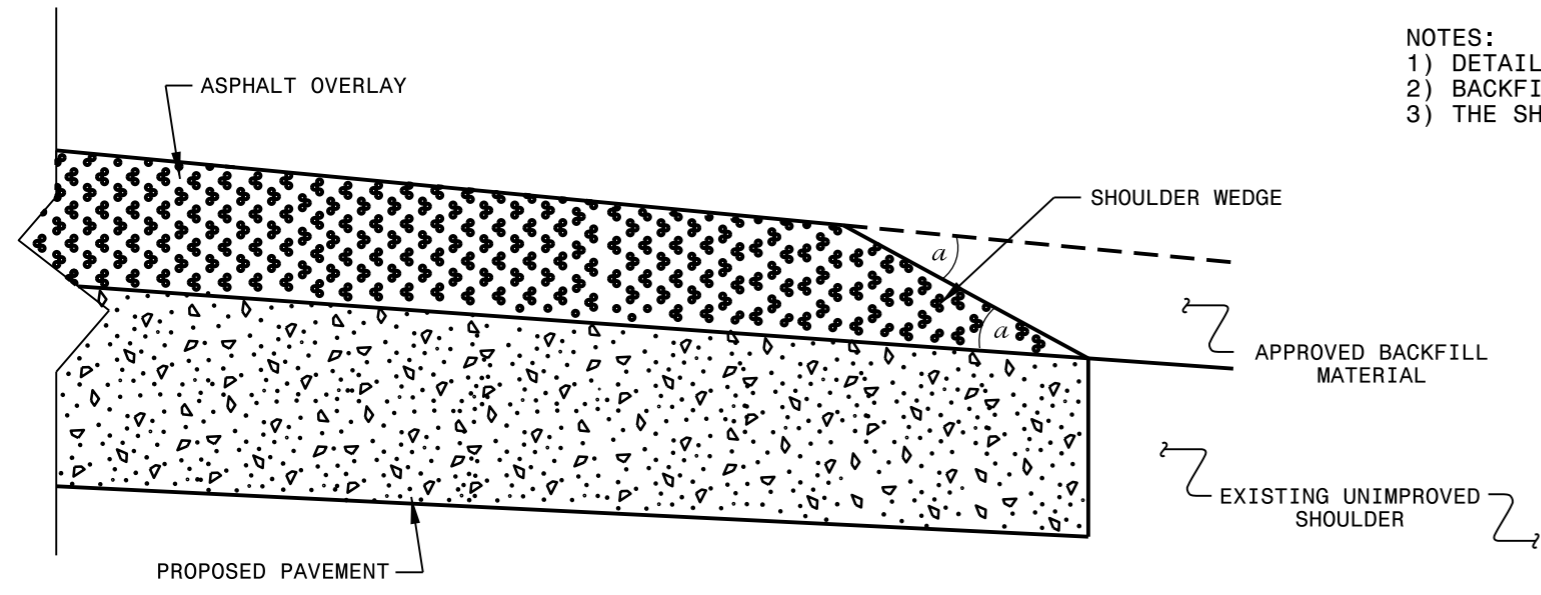
NTS

PROJECT NO.	SHEET NO.	TOTAL NO.
2019CPT.01.04.20081.1, ETC.	7	

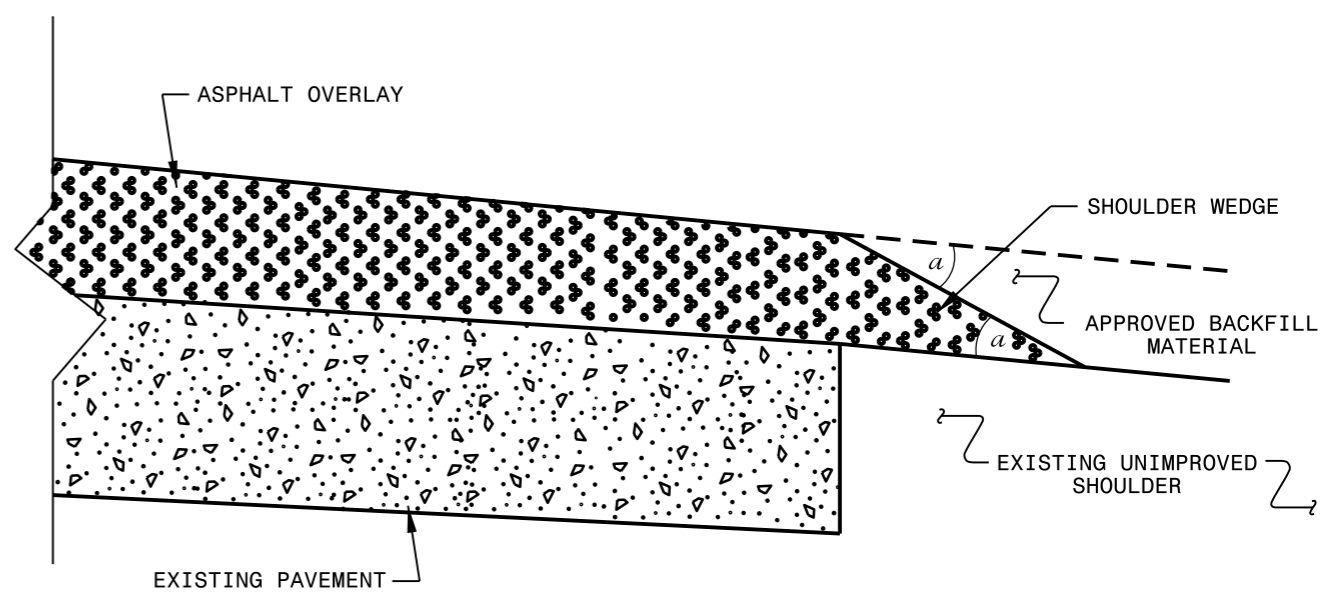
### SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	MOBILIZATION	BORROW EXCAVATION	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1½" MILLING	INCIDENTAL MILLING	SURFACE COURSE, \$9.5C	ASPHALT BINDER FOR PLANT MIX	FULL DEPTH PATCHING 0-5 IN	MILL PATCHING 2.5 IN	TEMPORARY SILT FENCE	COIR FIBER MAT	COIR FIBER WATTLE	SEEDING & MULCHING	RESPONSE FOR EROSION CONTROL	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE 14-2	WORK ZONE ADVANCE / GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL
2019CPT.01.04.20081.1	Bertie	1	SR 1237 WILLIFORD RD	FROM HERTFORD CO TO SR 1235	1	2	2WU	NO	NO	0.79	22	1		16		10,196	180	965	58	61									43	1
2019CPT.01.04.20081.1	Bertie	2	SR 1238 JERNIGAN SWAMP RD	FROM HERTFORD CO TO SR 1235	1	2	2WU	NO	NO	1.59	22	*		32		20,522	360	1,955	117										87	*
2019CPT.01.04.20081.1	Bertie	3	SR 1315 SALLY FREEMAN RD	FROM SR 1316 TO NC 42	1	2	2WU	NO	NO	1.35	20	*		14		15,840		1,574	94	171					3			74	*	
2019CPT.01.04.20081.1	Bertie	4	SR 1315 SALLY FREEMAN RD	FROM SR 1316 TO SR 1313	2	2	2WU	NO	NO	1.93	20	*	290	19	3.86			2,172	130	171	228	145	193	145	1.93	4		106	*	
2019CPT.01.04.20081.1	Bertie	5	SR 1321 MOORE TOWN RD	FROM HERTFORD CO TO POWELLSVILLE CL	1	2	2WU	NO	NO	1.77	19	*		35		19,730	360	1,892	114	170								97	*	
2019CPT.01.04.20081.1	Bertie	6	SR 1321 MOORE TOWN RD	FROM POWELLSVILLE CL TO NC 42	3	2	2WU	NO	NO	0.42	32	*		8		7,885		761	46						150	25	23	*		
2019CPT.01.04.20081.1	Bertie	7	SR 1321 MOORE TOWN RD	FROM NC 42 TO END C & G	3	2	2WU	NO	NO	0.06	32	*		1		1,126		128	8						150	25	3	*		
2019CPT.01.04.20081.1	Bertie	8	SR 1321 MOORE TOWN RD	FROM END C & G TO US 13	1	2	2WU	NO	NO	0.35	21	*		7		4,312	180	430	26									19	*	
2019CPT.01.04.20081.1	Bertie	9	SR 1322 JOHN MOORE RD	FROM HERTFORD CO TO SR 1321	2	2	2WU	NO	NO	0.35	20	*	53	7	0.70			397	24		26	35	26	0.35	1		19	*		
2019CPT.01.04.20081.1	Bertie	10	SR 1354 MT GOULD RIVER RD	FROM DEAD END TO NC 45	2	2	2WU	NO	NO	1.07	18	*	161	21	2.14			1,079	65		80	107	80	1.10	2		59	*		
<b>TOTAL FOR PROJ NO. 2019CPT.01.04.20081.1</b>										<b>9.68</b>		<b>*</b>	<b>504</b>	<b>160</b>	<b>6.70</b>	<b>79,611</b>	<b>1,080</b>	<b>11,353</b>	<b>682</b>	<b>573</b>	<b>228</b>	<b>251</b>	<b>335</b>	<b>251</b>	<b>3.38</b>	<b>10</b>	<b>300</b>	<b>50</b>	<b>530</b>	<b>*</b>
2019CPT.01.04.20461.1	Hertford	11	SR 1100 SOUTH WILLIFORD RD	FROM BERTIE CO TO SR 1101	1	2	2WU	NO	NO	1.72	22	*		34		22,200	300	2,100	126									95	*	
2019CPT.01.04.20461.1	Hertford	12	SR 1101 LEE JERNIGAN RD	FROM BERTIE CO TO SR 1105	1	2	2WU	NO	NO	1.29	22	*		26		16,650	360	1,600	96	15								71	*	
2019CPT.01.04.20461.1	Hertford	13	SR 1106 S. EARLY STATION RD	FROM BERTIE CO TO NC 42	1	2	2WU	NO	NO	2.90	21	*		58		35,728	675	3,382	203	15								160	*	
2019CPT.01.04.20461.1	Hertford	14	SR 1130 EAST MODLIN RD	FROM R-5311A PVMT TO US 13	1	2	2WU	NO	NO	0.68	21	*		14		8,378	180	822	49	30				150	25		37	*		
2019CPT.01.04.20461.1	Hertford	15	SR 1213 OLD NC 11	FROM DEAD END TO US 13	1	2	2WU	NO	NO	0.71	24	*		14		9,997		955	57							150	25	39	*	
2019CPT.01.04.20461.1	Hertford	16	SR 1314 WHITLEY RD	FROM SR 1310 TO SR 1311	2	2	2WU	NO	NO	1.07	20	*	161	21	2.14			1,198	72		8	80	107	80	1.10	2		59	*	
2019CPT.01.04.20461.1	Hertford	17	SR 1400 RIVER RD	FROM SR 1451 TO NC 45	1	2	2WU	NO	NO	2.01	22	*		40		25,942	1,260	2,526	152									111	*	
2019CPT.01.04.20461.1	Hertford	18	SR 1401 TUSCARORA BEACH RD	FROM SR 1400 TO NC 45	1	2	2WU	NO	NO	1.10	20	*		22		12,907	180	1,247	75	446								61	*	
2019CPT.01.04.20461.1	Hertford	19	SR 1401 OAK VILLA RD	FROM NC 45 TO NC 461	1	2	2WU	NO	NO	0.80	22	*		16		10,325	325	988	59	30								44	*	
2019CPT.01.04.20461.1	Hertford	20	SR 1403 AHOSKIE COFIELD RD	FROM NC 45 TO SR 1409	2	2	2WU	NO	NO	4.07	22	*		81		52,530	2,750	5,133	308	15								224	*	
2019CPT.01.04.20461.1	Hertford	21	SR 1419 DT RD	FROM NC 561 TO US 13	2	2	2WU	NO	NO	1.90	20	*	285	38	3.80			2,129	128		143	190	143	1.90	4		105	*		
2019CPT.01.04.20461.1	Hertford	22	SR 1451 HARES MILL RD	FROM DEAD END TO SR 1400	2	2	2WU	NO	NO	0.25	18	*	10	5	0.13			258	15		19	25	19	0.25	1		14	*		
<b>TOTAL FOR PROJ NO. 2019CPT.01.04.20461.1</b>										<b>18.50</b>		<b>*</b>	<b>456</b>	<b>369</b>	<b>6.07</b>	<b>194,657</b>	<b>6,030</b>	<b>22,338</b>	<b>1,340</b>	<b>551</b>	<b>8</b>	<b>242</b>	<b>322</b>	<b>242</b>	<b>3.25</b>	<b>7</b>	<b>150</b>	<b>25</b>	<b>1,020</b>	<b>*</b>
<b>GRAND TOTAL</b>										<b>28.18</b>		<b>1</b>	<b>960</b>	<b>529</b>	<b>12.77</b>	<b>274,268</b>	<b>7,110</b>	<b>33,691</b>	<b>2,022</b>	<b>1,124</b>	<b>236</b>	<b>493</b>	<b>657</b>	<b>493</b>	<b>6.63</b>	<b>17</b>	<b>450</b>	<b>75</b>	<b>1,550</b>	<b>1</b>

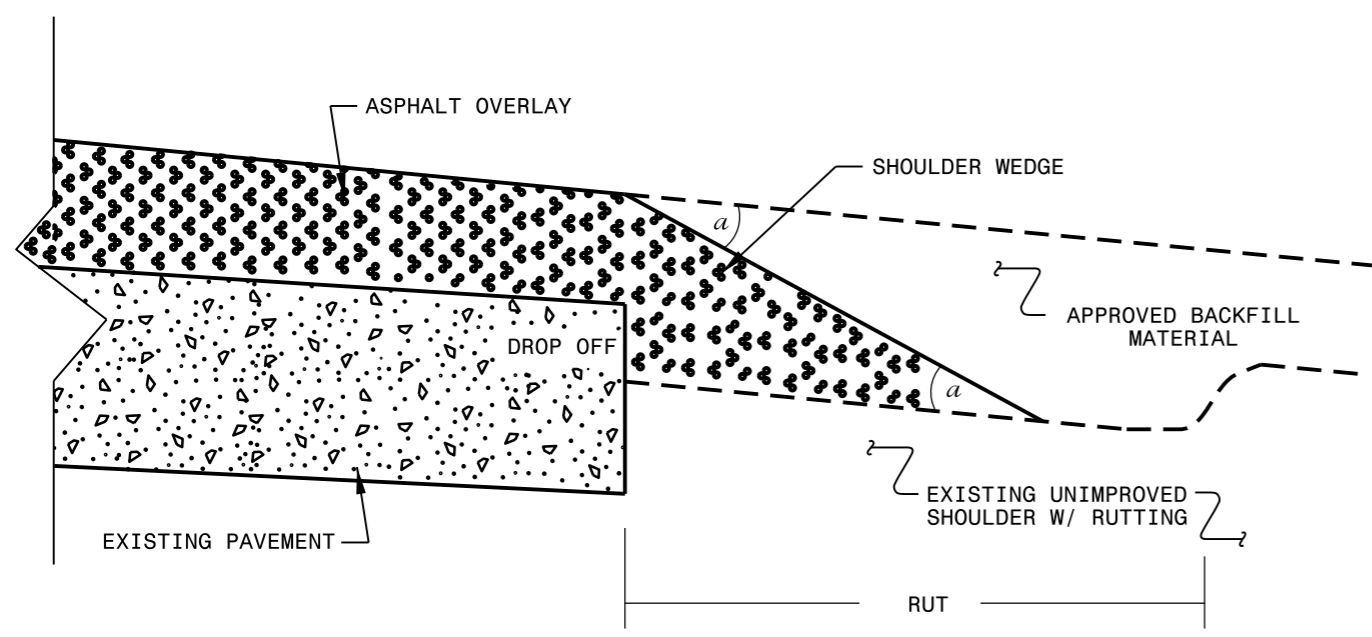
- NOTES:  
 1) DETAIL DOES NOT APPLY TO OGAF C AND ULTRA-THIN BONDED WEARING COURSE.  
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.  
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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



**SHOULDER WEDGE DETAIL**  
 (Resurfacing Projects w/ NO Widening)



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

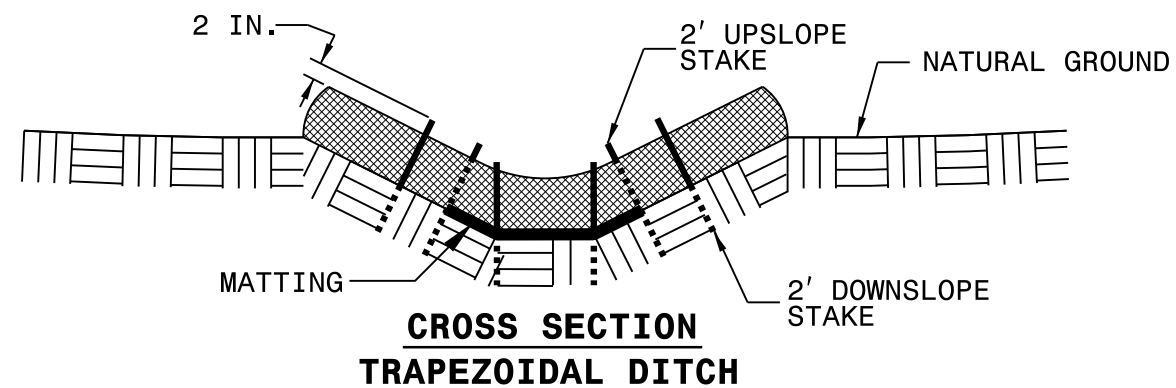
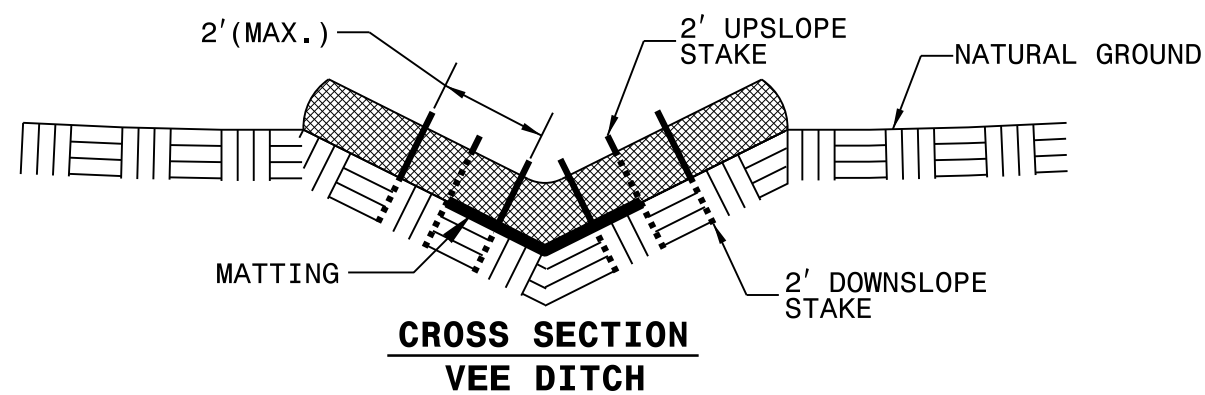
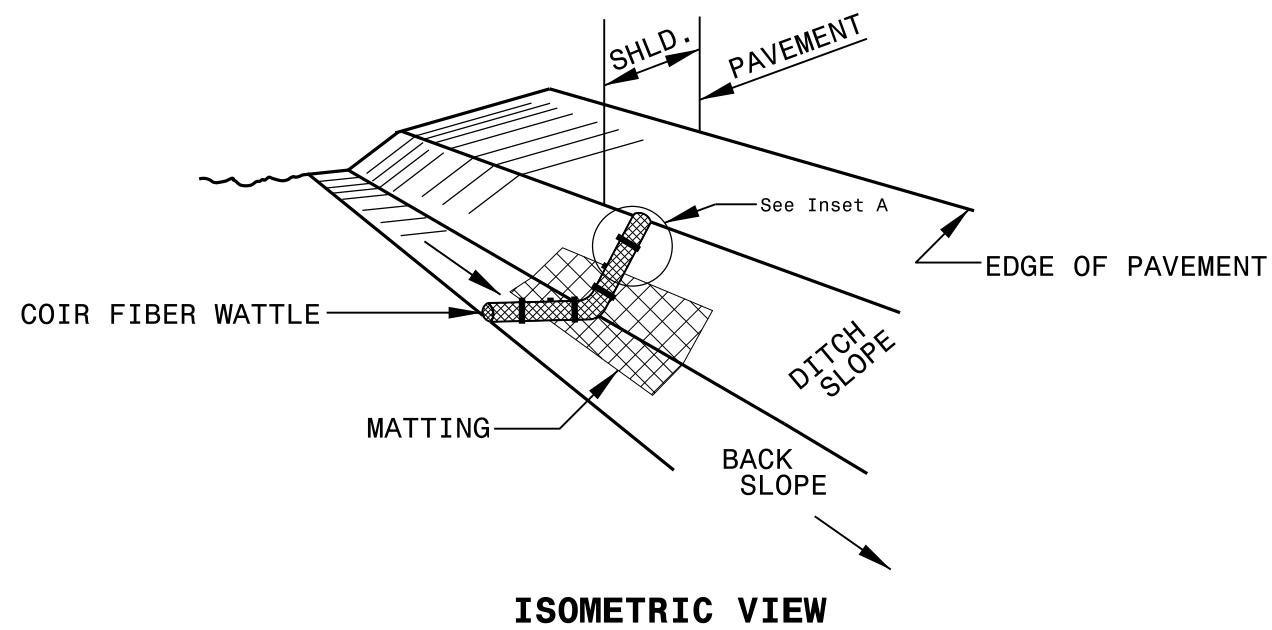
- SHOULDER WEDGE ANGLE = 30°

<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: 10/16/12
CHECKED BY:	DATE:
FILE SPEC.: s:\usr\details\stand\shoulderwedgedetail.dgn	



PROJECT REFERENCE NO. 2019CPT.01.04.2008II.ETC.	SHEET NO. 9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# COIR FIBER WATTLE DETAIL



**NOTES:**

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

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

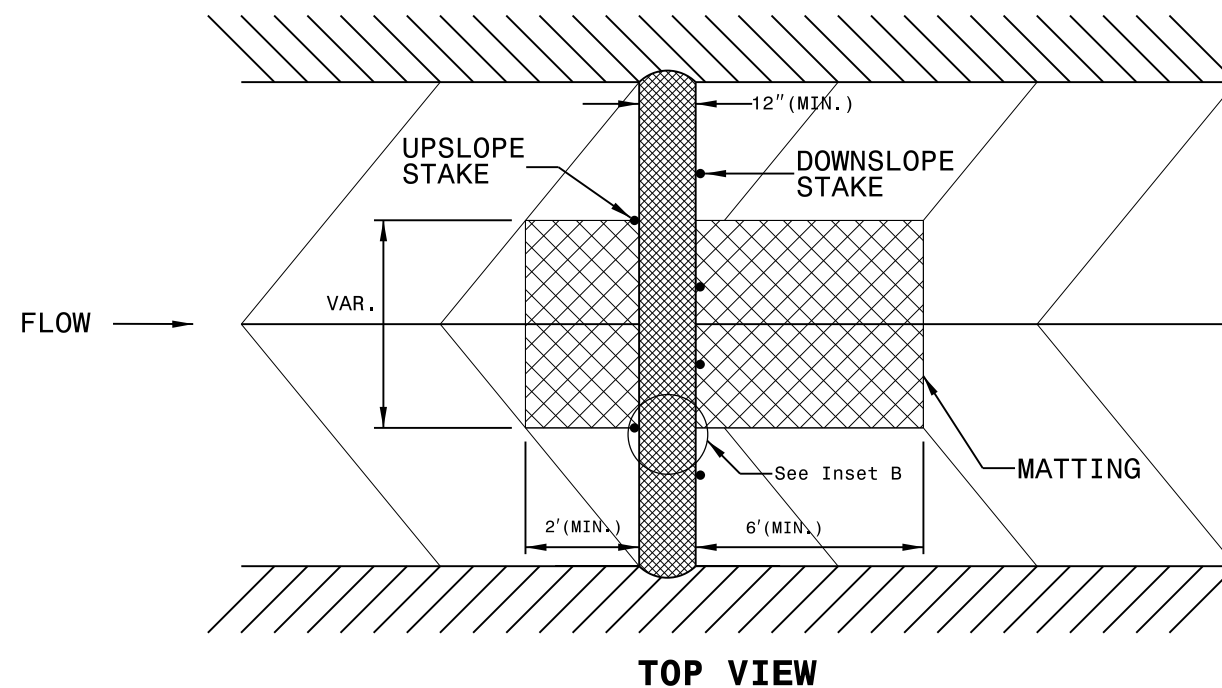
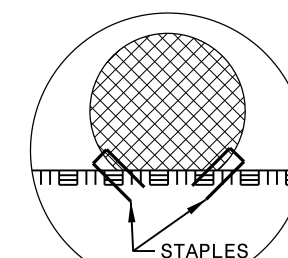
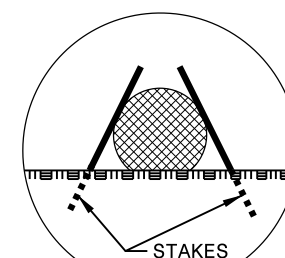
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

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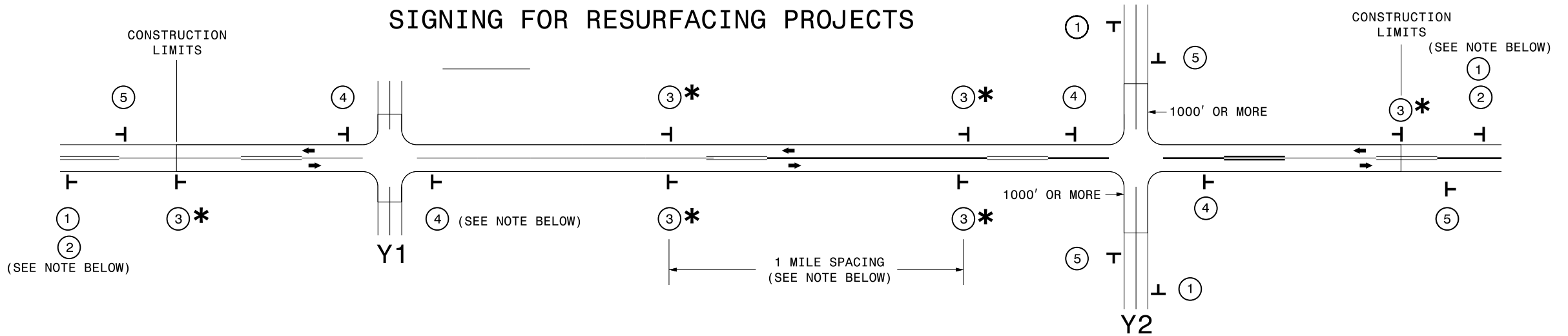


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## *SOIL STABILIZATION TIMEFRAMES*

<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.

## SIGNING FOR RESURFACING PROJECTS



LEGEND	
T	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

### MAINLINE (-L-) SIGNING

### -Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	MAINLINE (-L-) SIGNING		-Y- LINE SIGNING	
	①	 <small>W20-1 48" X 48"</small>	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> <li>LESS THAN 1000' OF RESURFACING ALONG -Y- LINE</li> <li>SUBDIVISION ROADS</li> <li>DEAD END ROADS</li> </ol>	
	②	 <small>W7-3aP 24" X 18"</small>	<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>	
	③*	 <small>SP 13107 48" X 48"</small>	<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>	
	④	 <small>SP 13106 48" X 48"</small>		
⑤	 <small>G20-2 A 48" X 24"</small>			

### \* 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