

05/08/99

CONTRACT NO.: DA00171 WBS ELEMENT: ICR.10461.21, ETC.

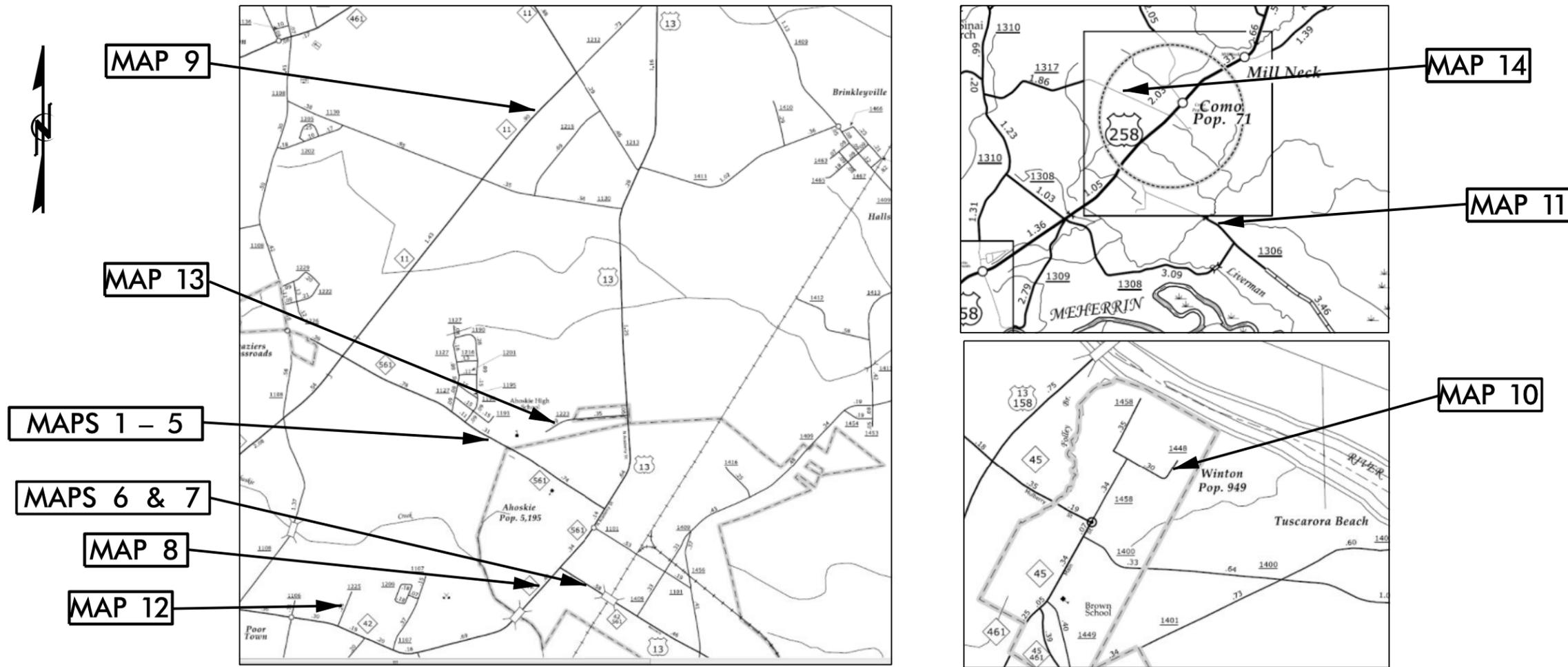
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

HERTFORD COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	1CR.10461.21, ETC.	1	11
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

LOCATION: MAP 1 NC 561 FROM NC11 TO BEGIN CURB & GUTTER
 MAP 2 NC 561 FROM BEGIN CURB & GUTTER TO END CURB & GUTTER
 MAP 3 NC 561 FROM END CURB & GUTTER TO PEMBROKE AVE.
 MAP 4 NC 561 FROM PEMBROKE AVE. TO COLONY AVE.
 MAP 5 NC 561 FROM COLONY AVE. TO CONSTRUCTION JOINT (US 13)
 MAP 6 NC 42 FROM SR 1409 TO BEGIN CURB & GUTTER
 MAP 7 NC 42 FROM BEGIN CURB & GUTTER TO INTERSECTION (US 13 & NC 42)
 MAP 8 NC 42 FROM CONSTRUCTION JOINT (HOSPITAL) TO END CURB & GUTTER
 MAP 9 NC 11 FROM SR1130 TO NC 11/NC 11 INTERSECTION
 MAP 10 SR 1448 FROM SR 1458 TO DEAD END
 MAP 11 SR 1306 FROM US 258 TO END OF PAVEMENT
 MAP 12 SR 1225 FROM NC 42 TO DEAD END
 MAP 13 SR 1223 FROM US 13 TO BEGIN CURB & GUTTER
 MAP 14 SR 1317 FROM US 258 TO SR 1310

TYPE OF WORK: MILLING, WIDENING AND RESURFACING



NTS

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT MAP 1 = 1.16 MI.
LENGTH OF ROADWAY PROJECT MAP 2 = 0.21 MI.
LENGTH OF ROADWAY PROJECT MAP 3 = 0.32 MI.
LENGTH OF ROADWAY PROJECT MAP 4 = 0.14 MI.
LENGTH OF ROADWAY PROJECT MAP 5 = 0.05 MI.
LENGTH OF ROADWAY PROJECT MAP 6 = 0.46 MI.
LENGTH OF ROADWAY PROJECT MAP 7 = 0.11 MI.
LENGTH OF ROADWAY PROJECT MAP 8 = 0.13 MI.
LENGTH OF ROADWAY PROJECT MAP 9 = 0.90 MI.

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT MAP 10 = 0.31 MI.
LENGTH OF ROADWAY PROJECT MAP 11 = 2.51 MI.
LENGTH OF ROADWAY PROJECT MAP 12 = 0.26 MI.
LENGTH OF ROADWAY PROJECT MAP 13 = 0.52 MI.
LENGTH OF ROADWAY PROJECT MAP 14 = 2.81 MI.

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

2012 STANDARD SPECIFICATIONS

LETTING DATE:
DECEMBER 18, 2013

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

C.E. SLACHTA
DIVISION PROPOSALS ENGINEER

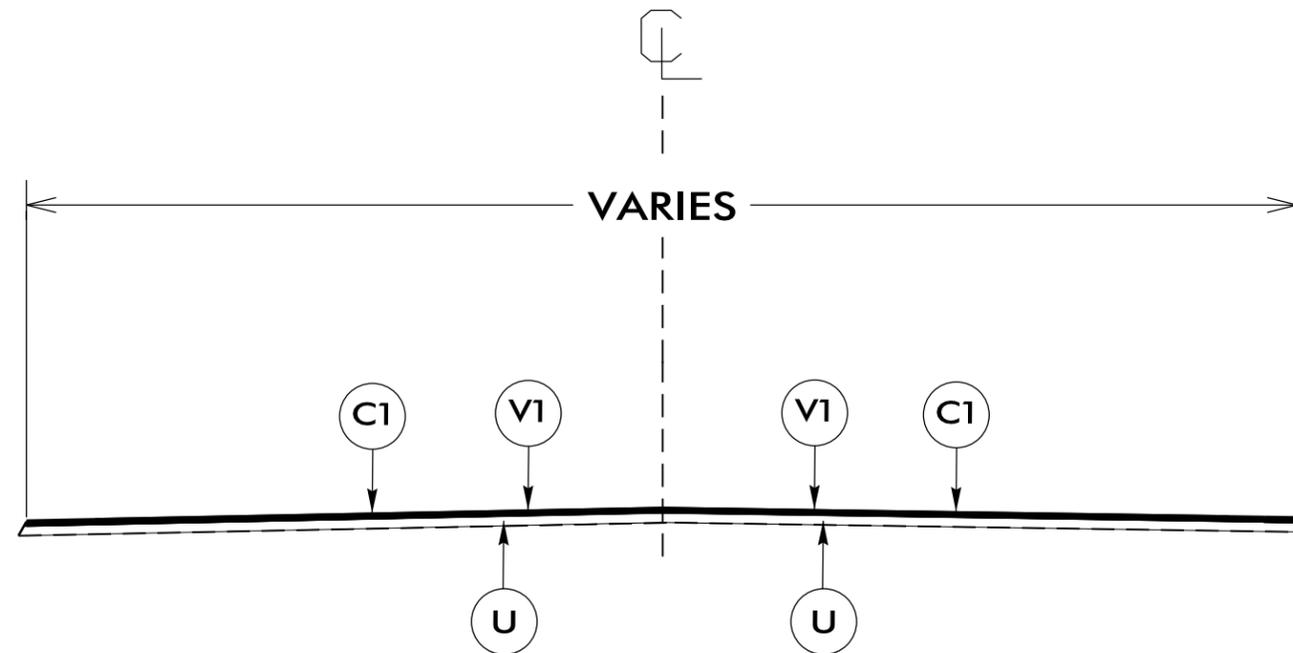
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

P A V E M E N T S C H E D U L E

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING BITUMINOUS PAVEMENT. 1.5" 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
- *EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES
- *SHOULDER RECONSTRUCTION TO BE PERFORMED BY OTHERS
- *PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS



TYPICAL SECTION NO.1

USE WITH MAPS 1,3 & 9

NTS

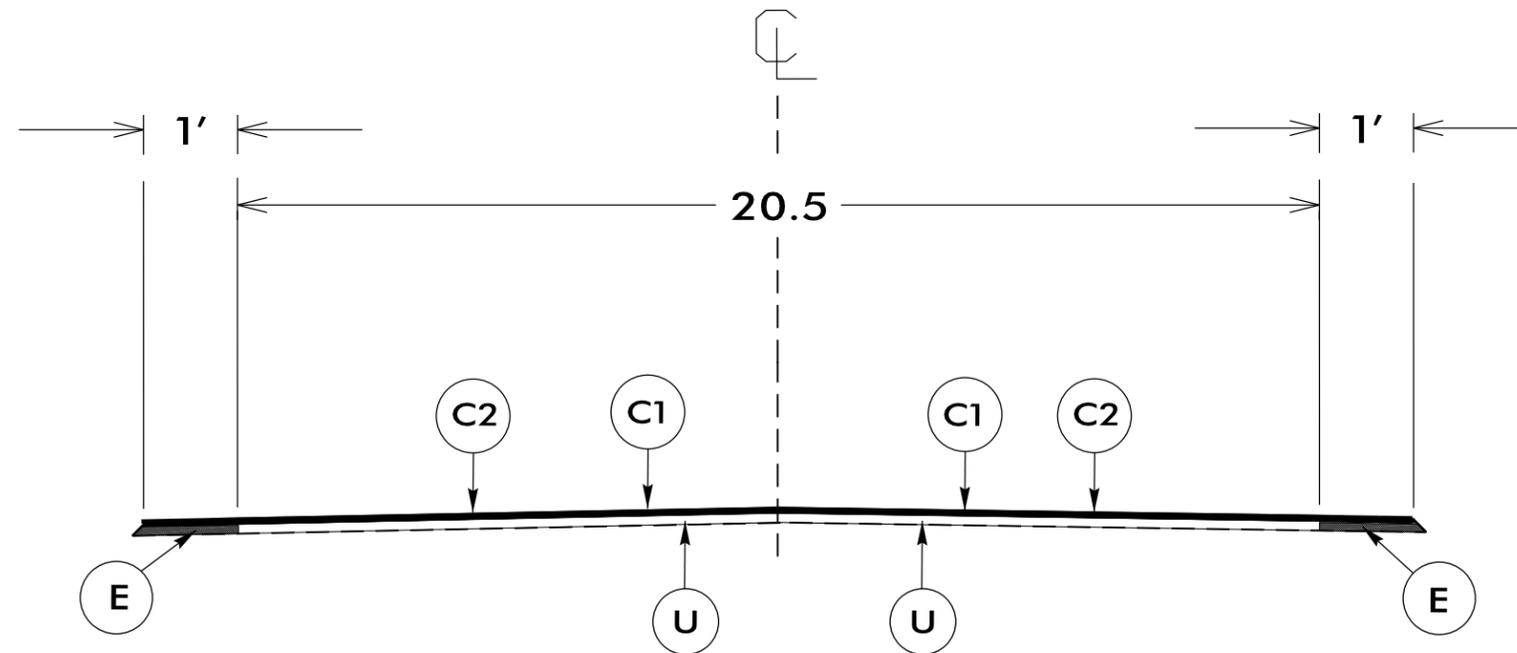
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 0.75" ASPHALT CONCRETE SURFACE COURSE, TYPE SA-1, AT AN AVERAGE RATE OF 75 LBS. PER SQ. YD.
E	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.

PROJECT REFERENCE NO.	SHEET NO.
1CR.10461.21, ETC.	3 of 11

NOTES:

- *ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER
- *EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES
- *SHOULDER RECONSTRUCTION TO BE PERFORMED BY OTHERS
- *PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS



TYPICAL SECTION NO. 2

USE WITH MAP 13

NTS

P A V E M E N T S C H E D U L E

C3	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
V2	MILLING BITUMINOUS PAVEMENT. 2" IN DEPTH.
U	EXISTING PAVEMENT.

PROJECT REFERENCE NO.	SHEET NO.
1CR.10461.21, ETC.	4 of 11

NOTES:

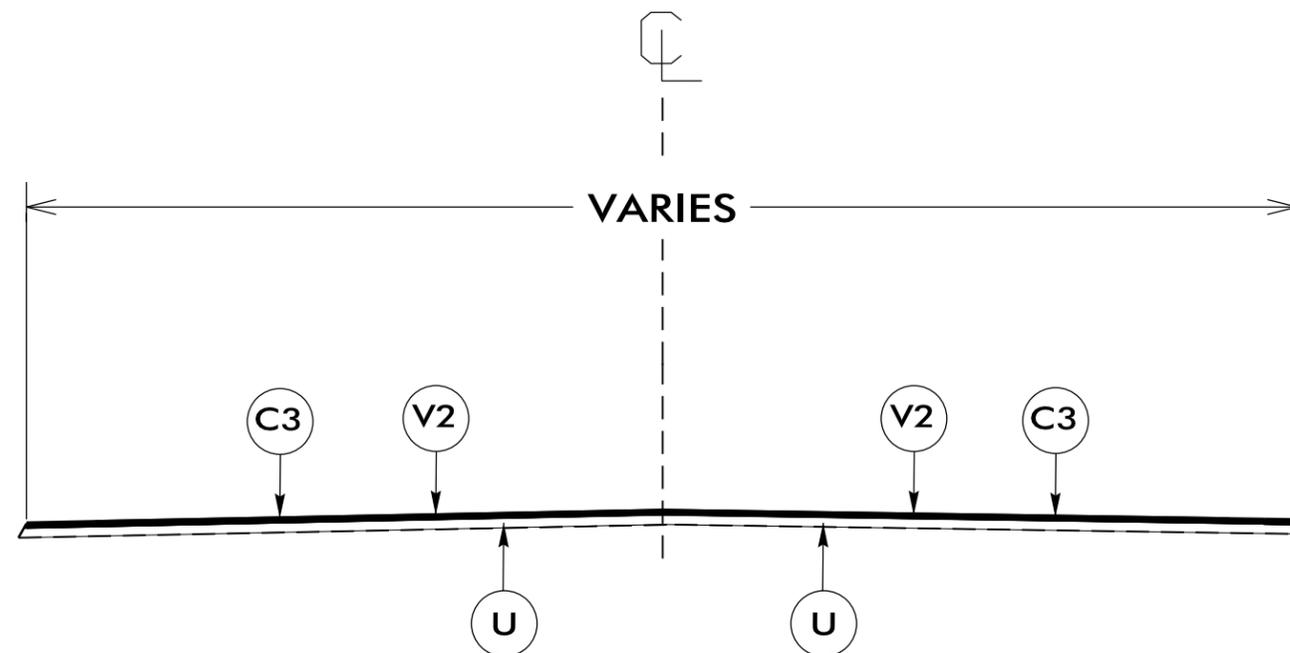
*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER

*EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES

*SHOULDER RECONSTRUCTION TO BE PERFORMED BY OTHERS

*PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS

*BRIDGE NO. 31 ON MAP 6 TO BE MILLED 4" AND RESURFACED WITH 2" OF MIX S9.5B.



TYPICAL SECTION NO.3

USE WITH MAP 6

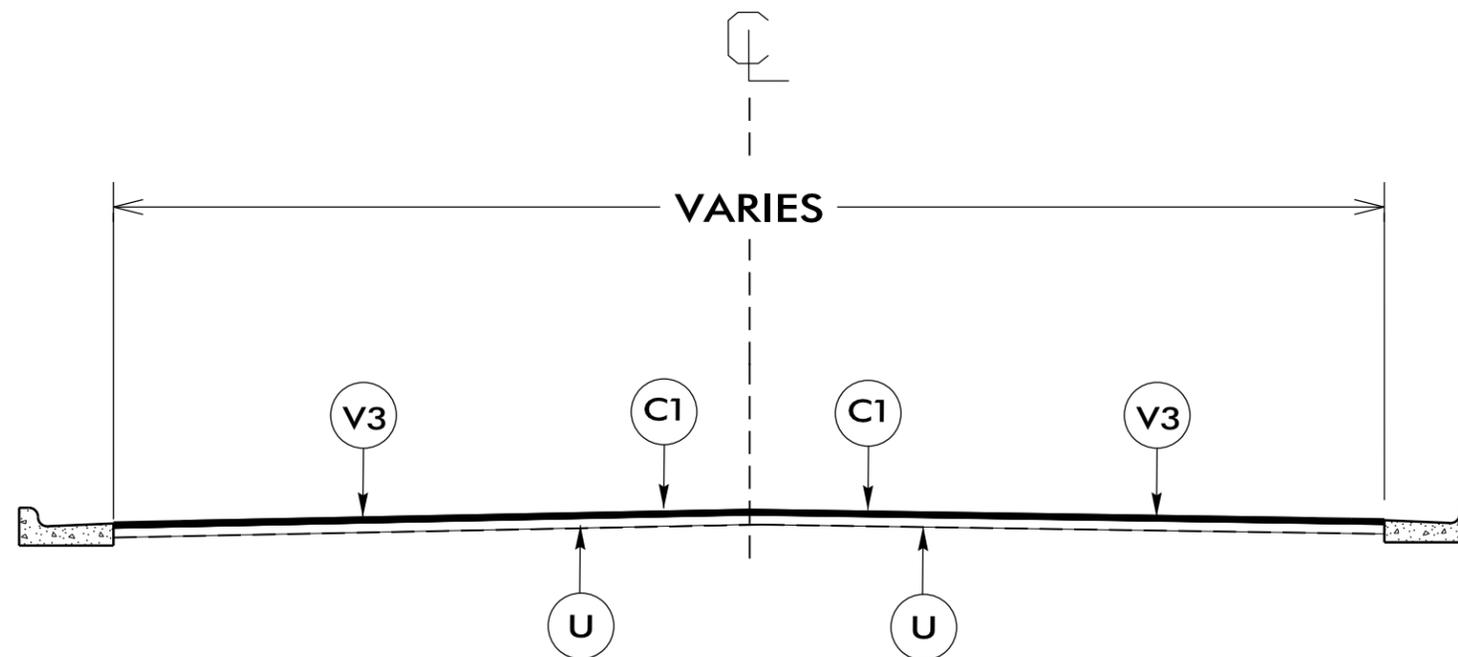
NTS

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V3	MILLING BITUMINOUS PAVEMENT. 1.5" TO 4" 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
- *EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES
- *CONTRACTOR SHALL MILL 1.5" BELOW EXISTING EDGE OF CONC. CURB & GUTTER
- *PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS



TYPICAL SECTION NO.4

USE WITH MAP 2, 4 & 8

NTS

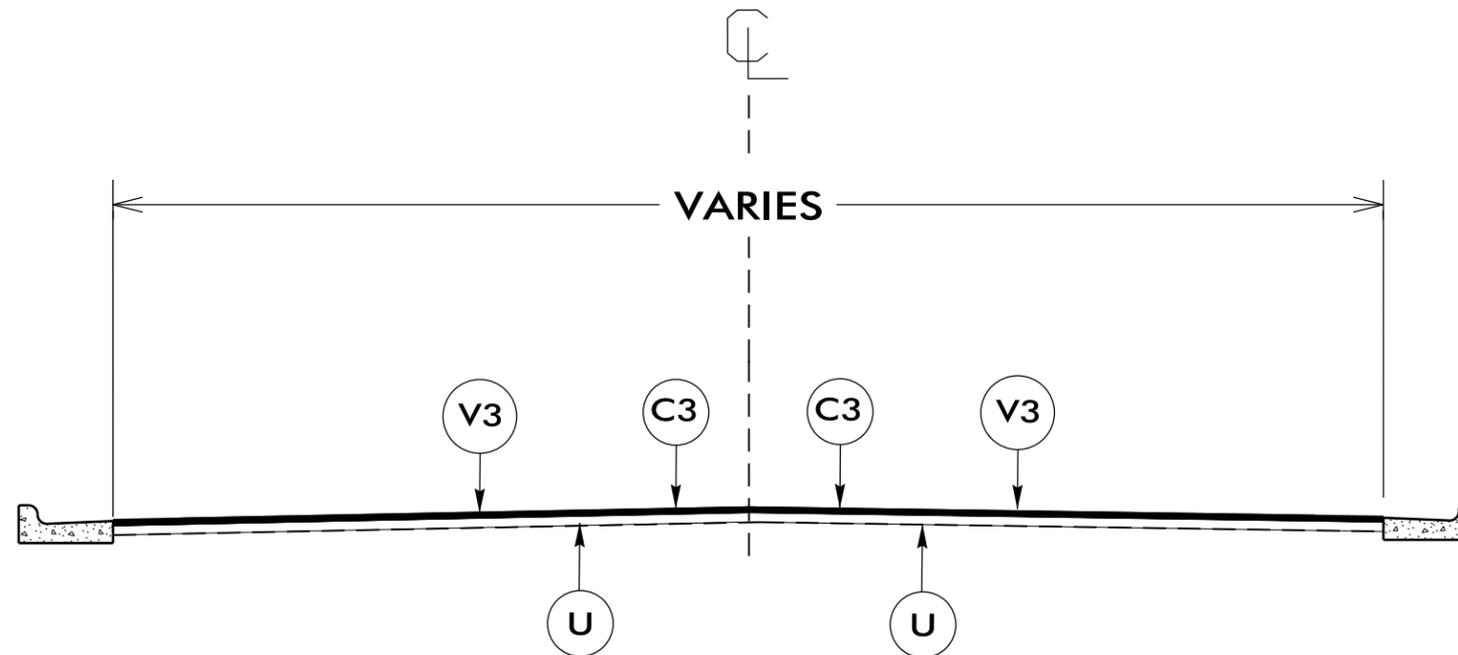
P A V E M E N T S C H E D U L E

C3	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
V3	MILLING BITUMINOUS PAVEMENT. 1.5" TO 4" IN DEPTH.
U	EXISTING PAVEMENT.

PROJECT REFERENCE NO.	SHEET NO.
1CR.10461.21, ETC.	6 of 11

NOTES:

- *ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER
- *EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES
- *CONTRACTOR SHALL MILL 2" BELOW EXISTING EDGE OF CONC. CURB & GUTTER.
- *PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS



TYPICAL SECTION NO.5

USE WITH MAP 7

NTS

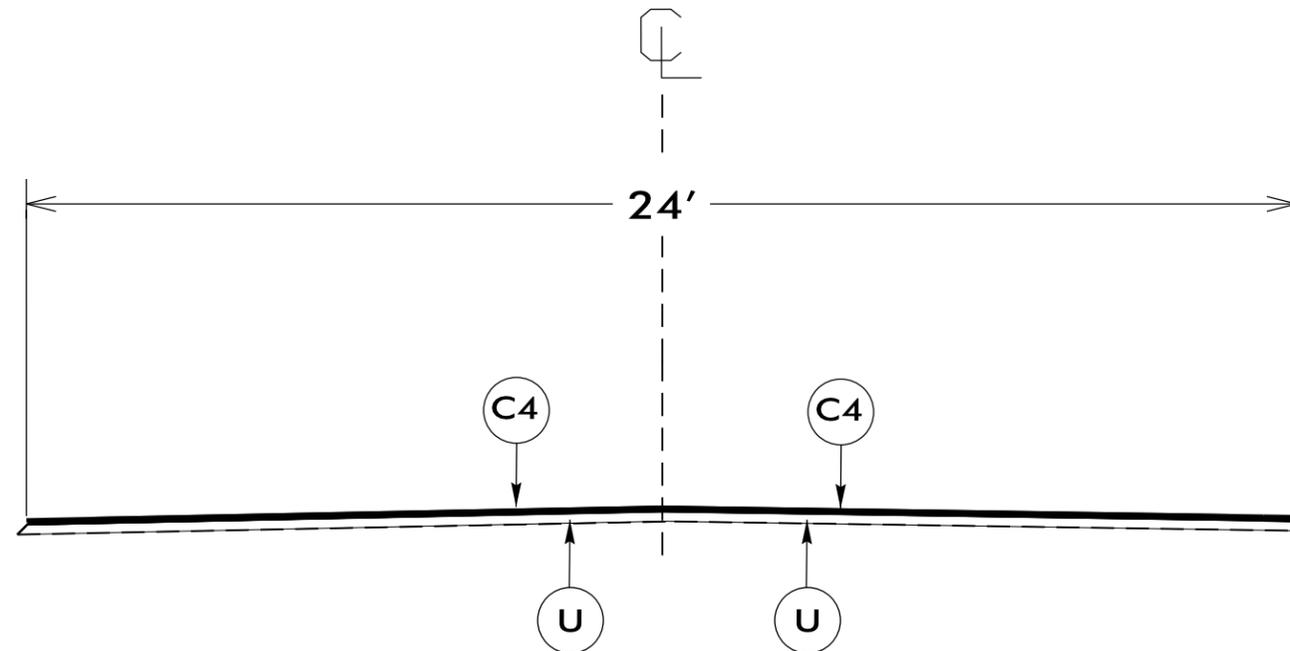
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P A V E M E N T S C H E D U L E

C4	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.

NOTES:

- *ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER
- *EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES
- *SHOULDER RECONSTRUCTION TO BE PERFORMED BY OTHERS
- *PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS



TYPICAL SECTION NO.6

USE WITH MAP 12

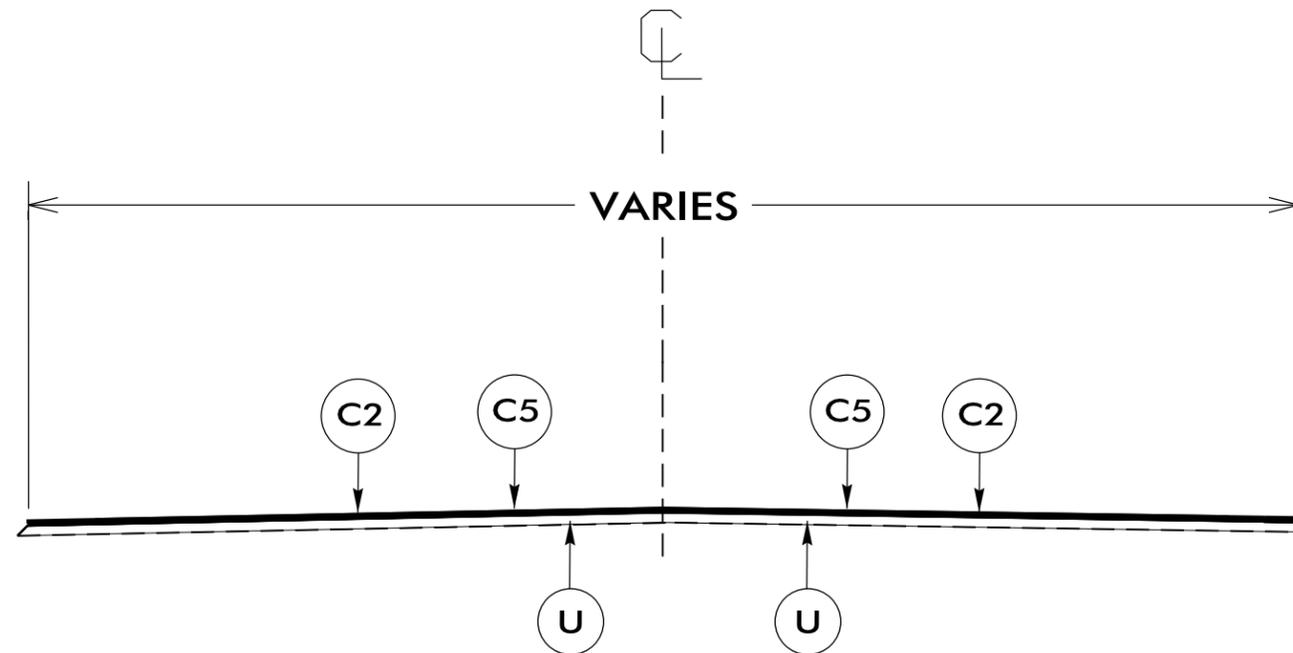
NTS

P A V E M E N T S C H E D U L E

C5	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 0.75" ASPHALT CONCRETE SURFACE COURSE, TYPE SA-1, AT AN AVERAGE RATE OF 75 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.

NOTES:

- *ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER
- *EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES
- *SHOULDER RECONSTRUCTION TO BE PERFORMED BY OTHERS
- *PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS



TYPICAL SECTION NO. 7

USE WITH MAPS 10, 11 & 14

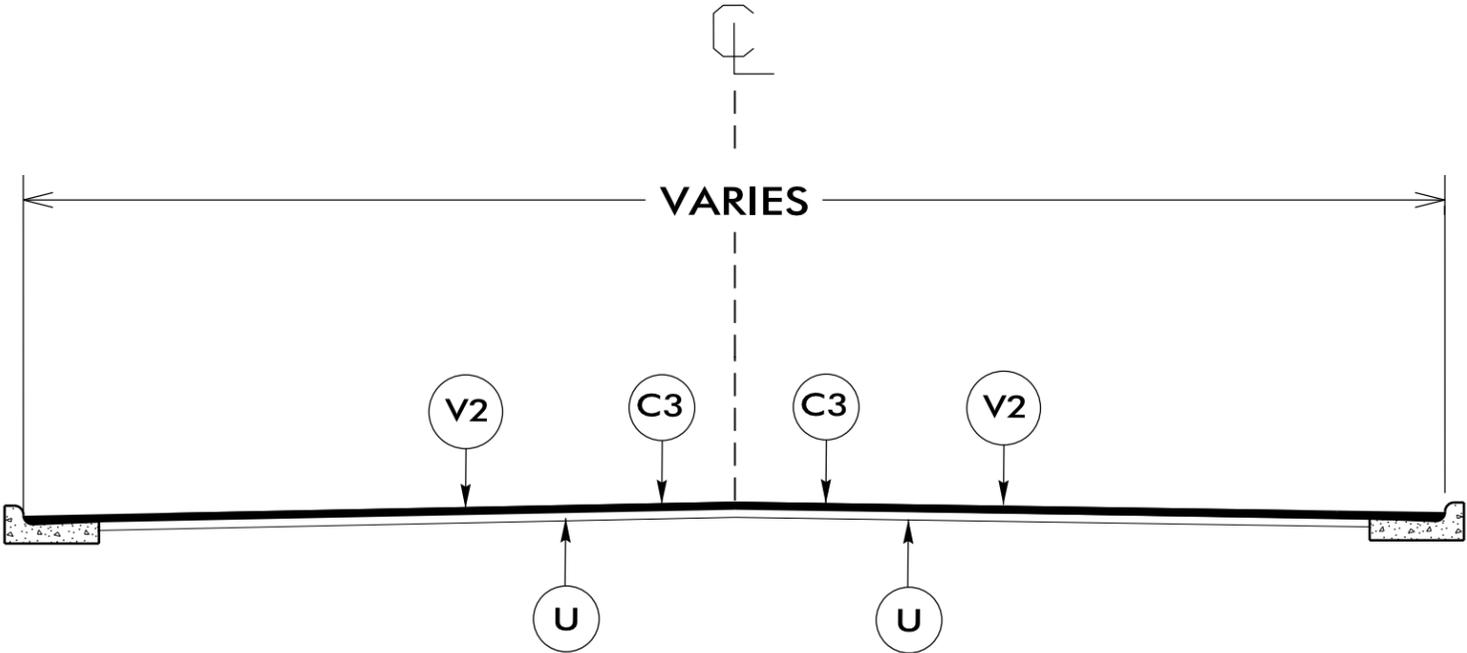
NTS

P A V E M E N T S C H E D U L E

C3	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
V2	MILLING BITUMINOUS PAVEMENT. 2"
U	EXISTING PAVEMENT.

NOTES:

- *ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER
- *EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES
- *PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS



TYPICAL SECTION NO.8

USE WITH MAP 5

NTS

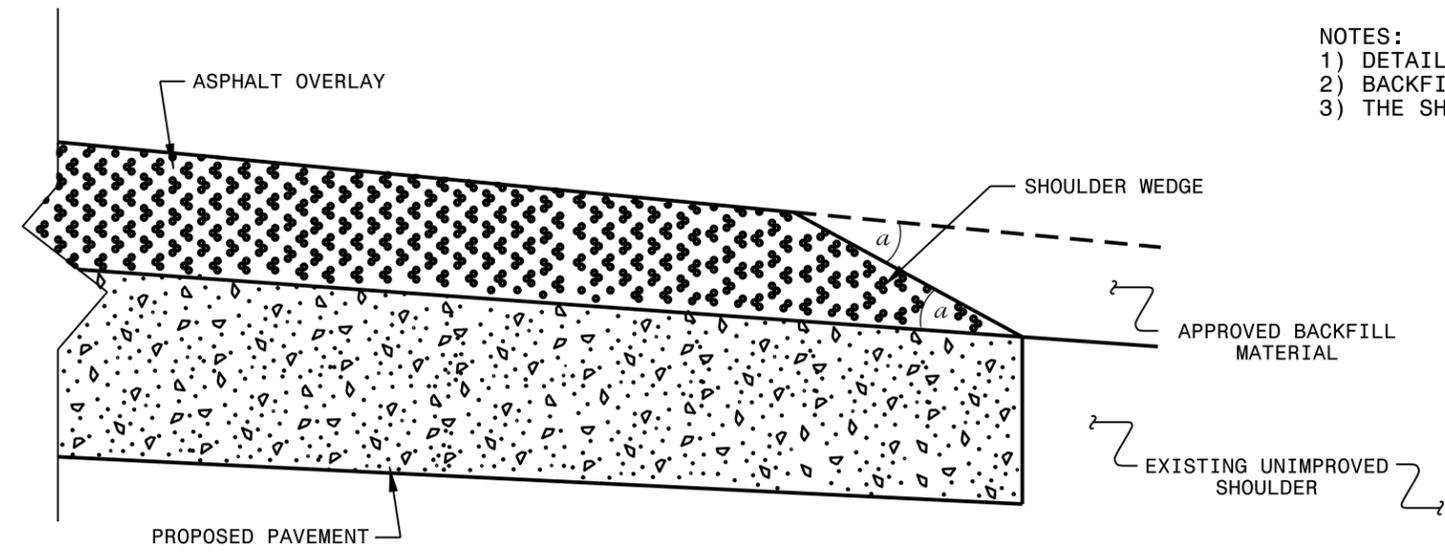
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PROJECT NO.	SHEET NO.	TOTAL NO.
1CR.10461.21, ETC.	10	11

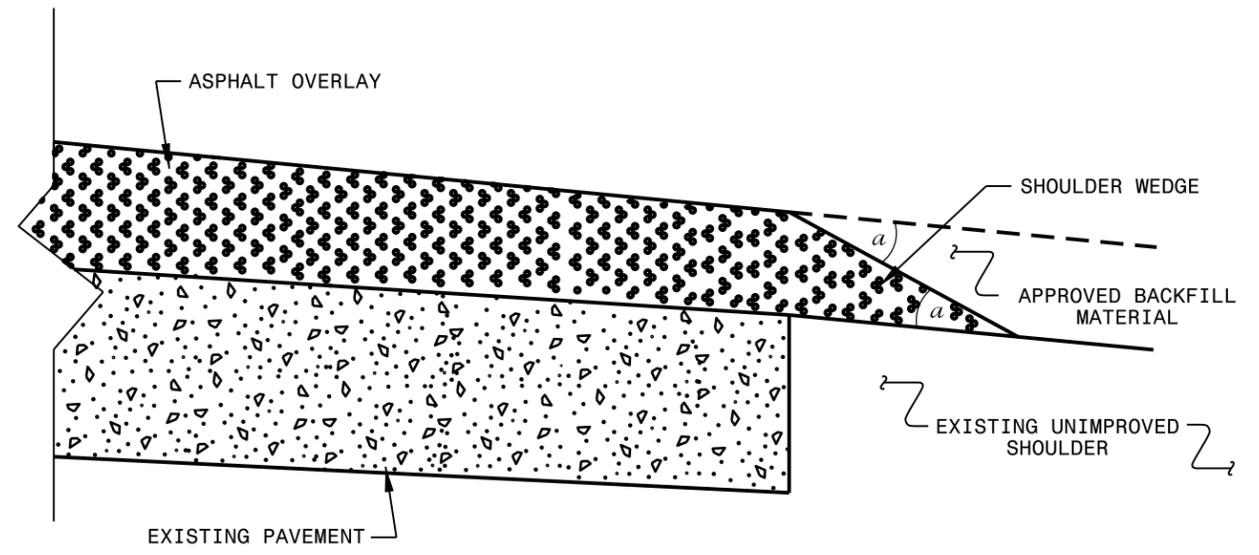
SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	MOBILIZATION LS	1½" MILLING SY	2" MILLING SY	1.5" TO 4" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	SAND ASPHALT SURFACE COURSE, TYPE SA-1 TON	ASPHALT BINDER FOR PLANT MIX TONS	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA	INDUCTIVE LOOP SAWCUT LF	LEAD-IN CABLE (14-2) LF	TEMP TRAFFIC CONTROL LS
1CR.10461.21	Hertford	1	NC 561	NC 11 TO BEGIN C&G	1	2	2WU	NO	NO	1.16	26.5	1	19,000					1,760			106	1	2			1
1CR.10461.21	Hertford	2	NC 561	BEGIN C&G TO END C&G	4	2	M2	NO	NO	0.21	48	*			6,000			580			35	3	3			*
1CR.10461.21	Hertford	3	NC 561	END C&G to PEMBROKE AVE.	1	2	2WU	NO	NO	0.32	26.5	*	5,600					490			29	5	2			*
1CR.10461.21	Hertford	4	NC 561	PEMBROKE AVE TO COLONY AVE.	4	2	2WU	NO	NO	0.14	26.5	*			3,000			240			14	2	2			*
1CR.10461.21	Hertford	5	NC 561	COLONY AVE. TO CONSTRUCTION JOINT (US 13)	8	2	2WU	NO	NO	0.05	34	*		1,100				140			8	1		1,300	300	*
1CR.10461.22	Hertford	6	NC 42	SR 1409 TO BEGIN C&G	3	2	2WU	NO	NO	0.46	30.5	*		9,000	450			1,101			66					*
1CR.10461.22	Hertford	7	NC 42	BEGIN C&G TO INTERSECTION (NC42/US13)	5	2	MU	NO	NO	0.11	44	*			4,100			498			30	2				*
1CR.10461.23	Hertford	8	NC 42	CONSTRUCTION JOINT (HOSPITAL) TO END C&G	4	2	2WU	NO	NO	0.13	40	*	3,100					294			18	4	6	800	200	*
1CR.10461.24	Hertford	9	NC 11	SR 1130 to NC 11/NC11 INTERSECTION	1	2	2WU	NO	NO	0.90	32	*	18,800					1,853			111					*
1CR.20461.53	Hertford	10	SR1448	FROM SR 1458 TO DEAD END	7	2	2WU	NO	NO	0.31	22	*				60			312	177	32	2	5			*
1CR.20461.54	Hertford	11	SR1306	FROM US 258 TO END PAVEMENT	7	2	2WU	NO	NO	2.51	18	*				90			1,666	450	141					*
1CR.20461.55	Hertford	12	SR1225	FROM NC 42 TO DEAD END	6	2	2WU	NO	NO	0.26	24	*				50			278		19					*
1CR.20461.56	Hertford	13	SR1223	FROM US 13 TO END C&G NEAR SCHOOL	2	2	2WU	NO	NO	0.52	20.5	*				530	317	769		298	80					*
1CR.20461.57	Hertford	14	SR 1317	FROM US 258 TO SR 1310	7	2	2WU	NO	NO	2.81	18	*				70			1,804	1,228	201					*
GRAND TOTAL										9.88		1	46,500	10,100	13,550	800	317	7,725	4,060	2,153	890	20	20	2,100	500	1

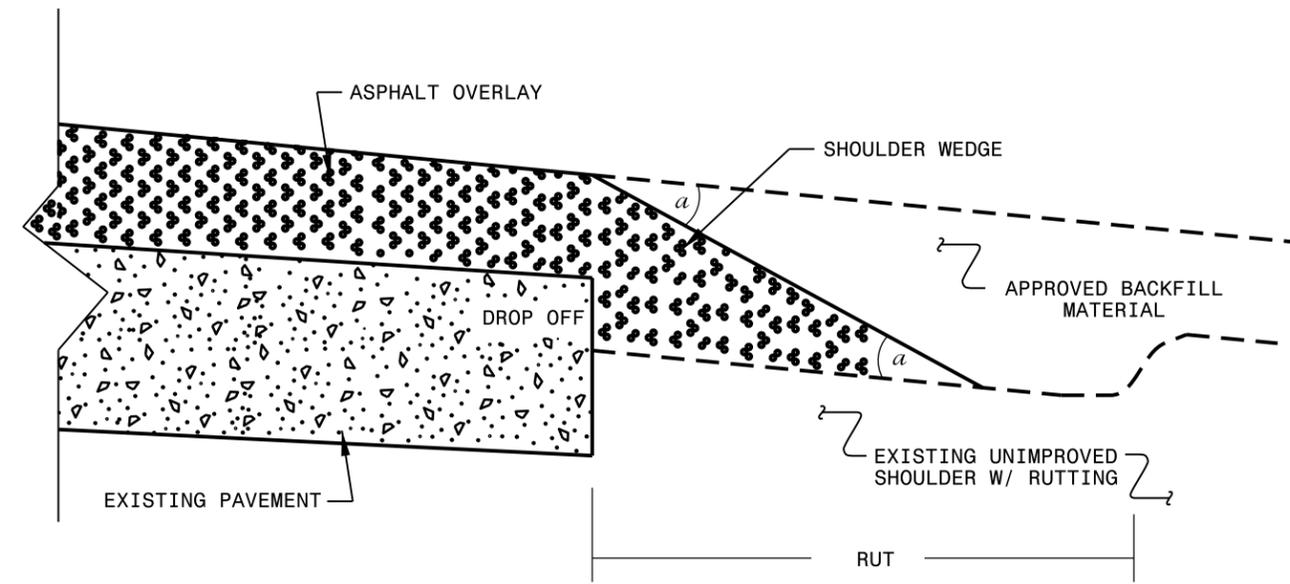
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFD AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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°

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: 10/16/12		
CHECKED BY:	DATE:		
FILE SPEC.: susr/details/stand/shoulderwedgedetail.dgn			

SYSTEMS DESIGN USER NAME