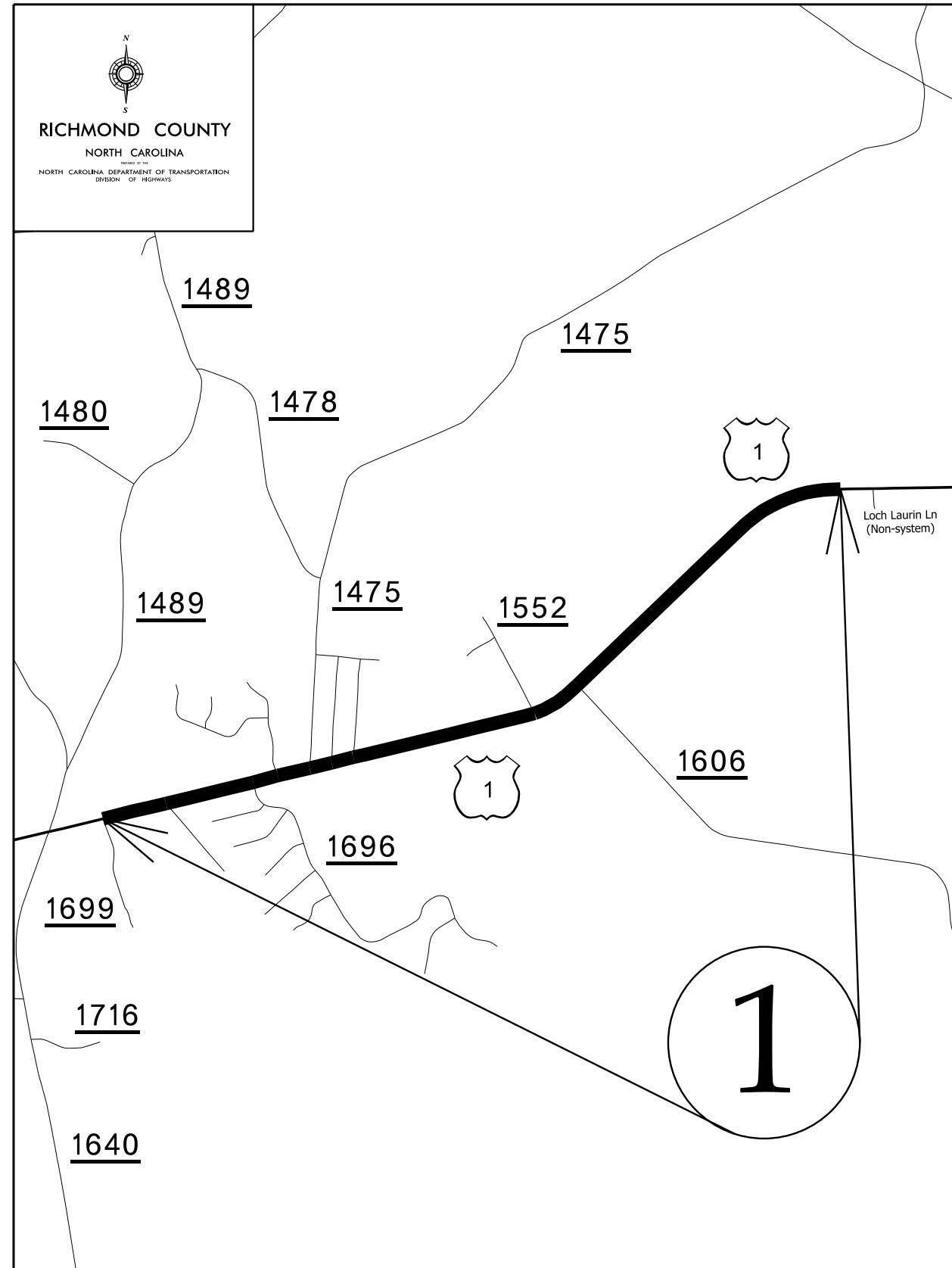
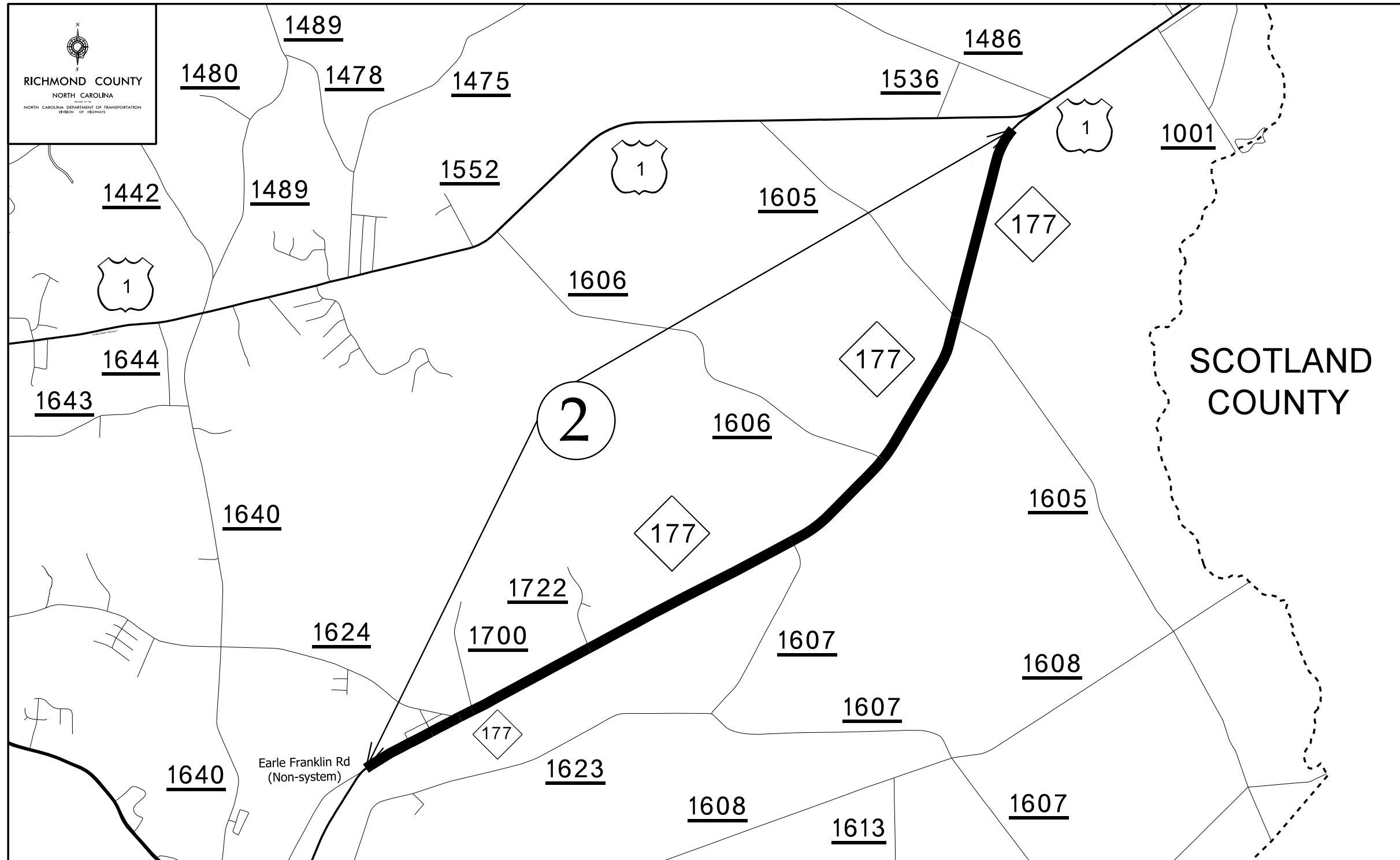




# Map 1

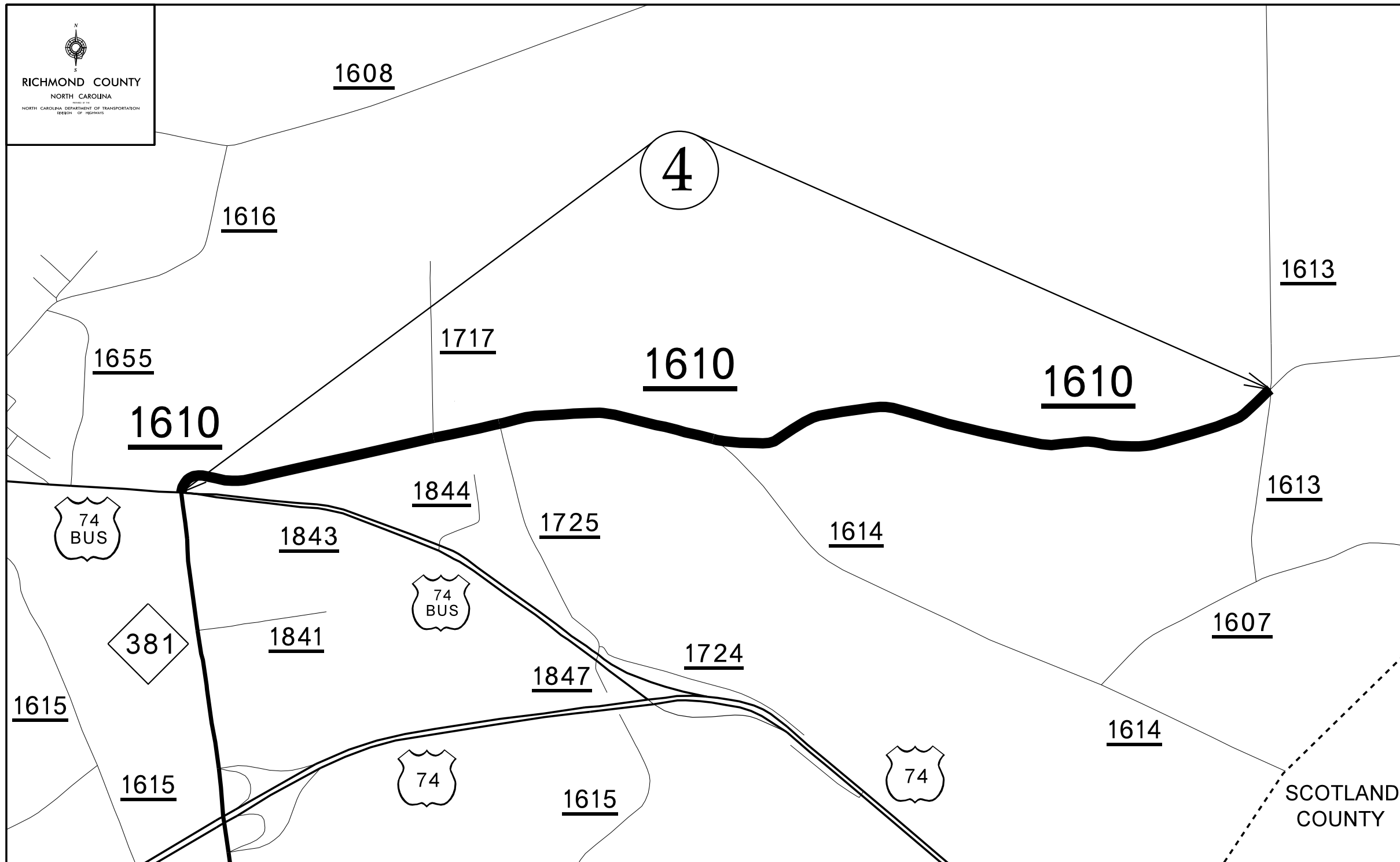


# Map 2



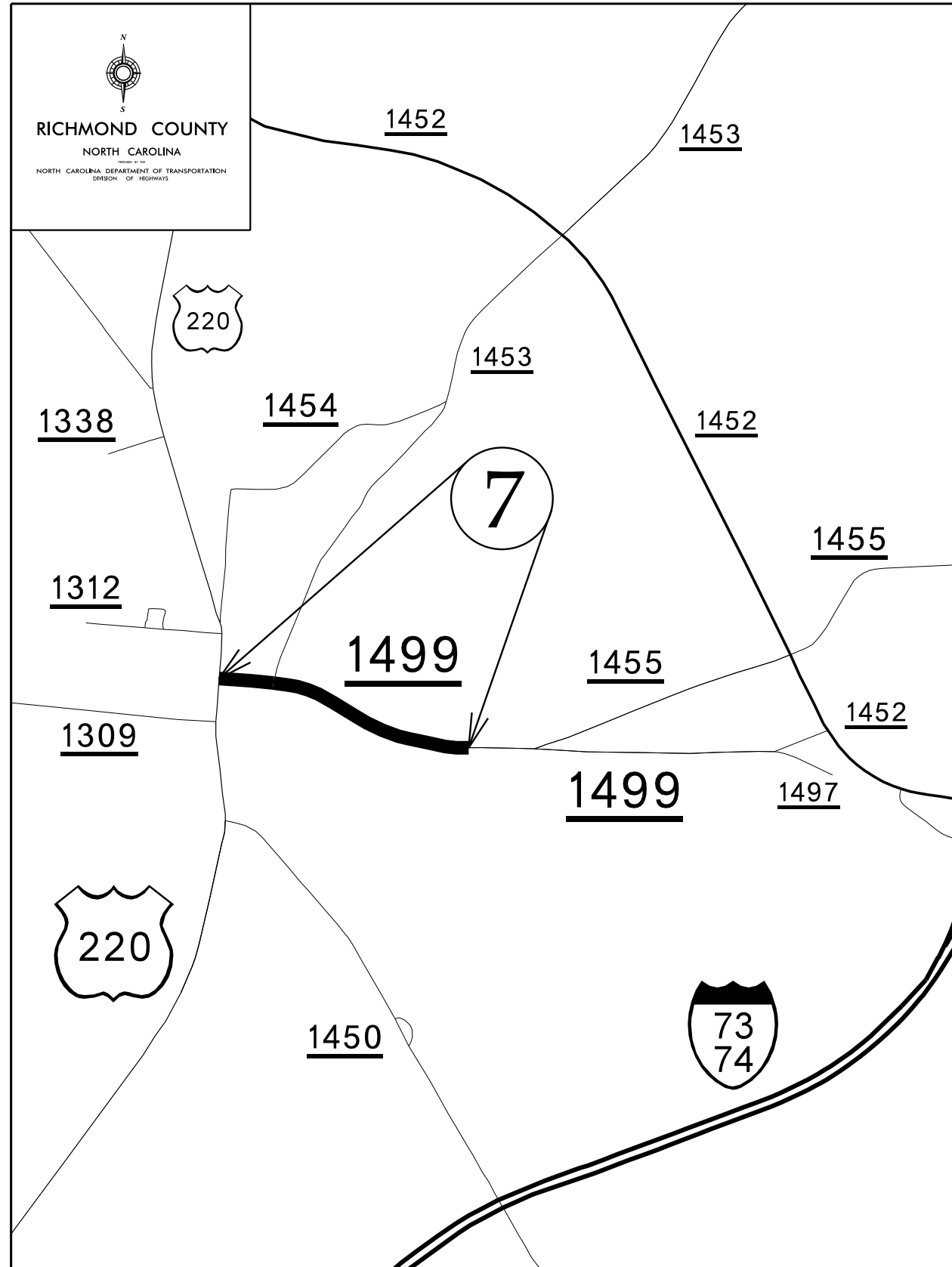


# Map 4



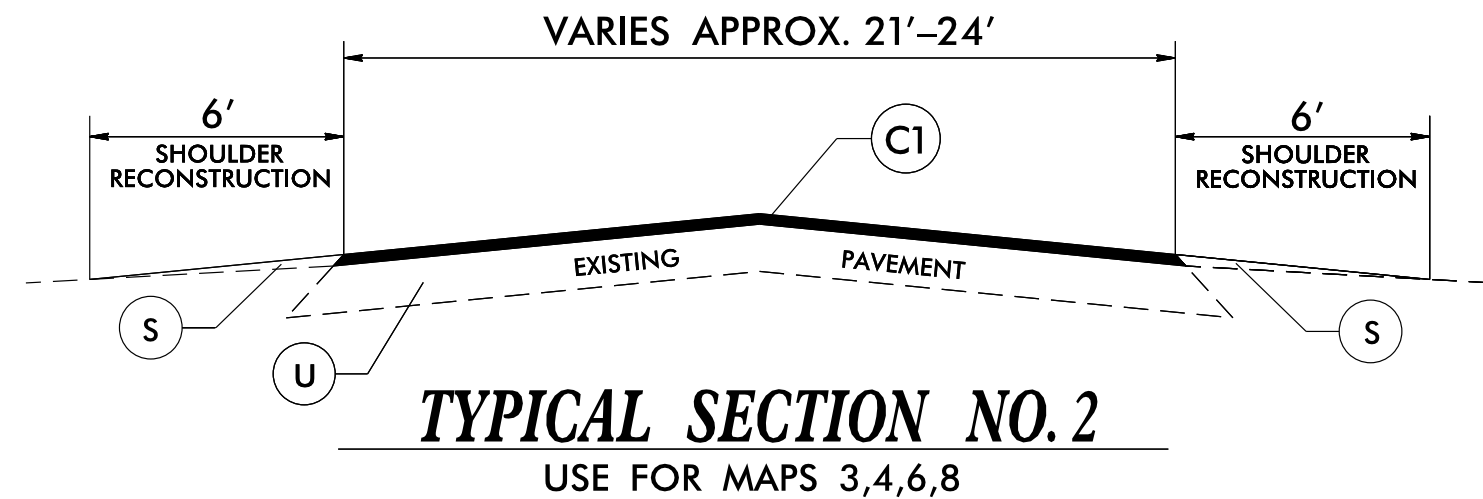
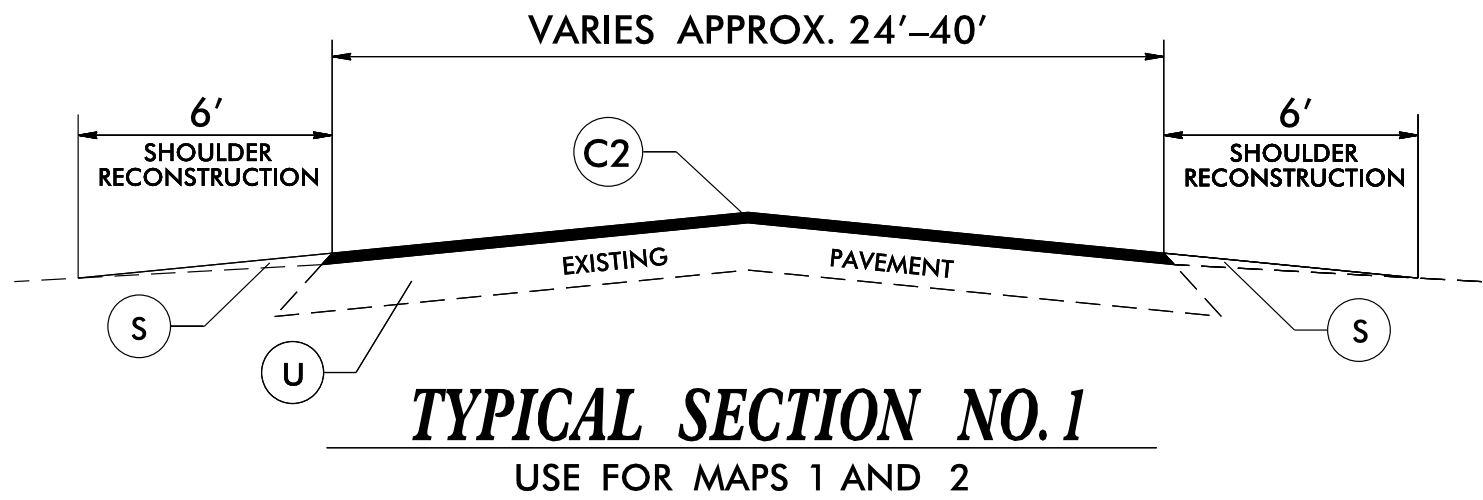


# Map 7

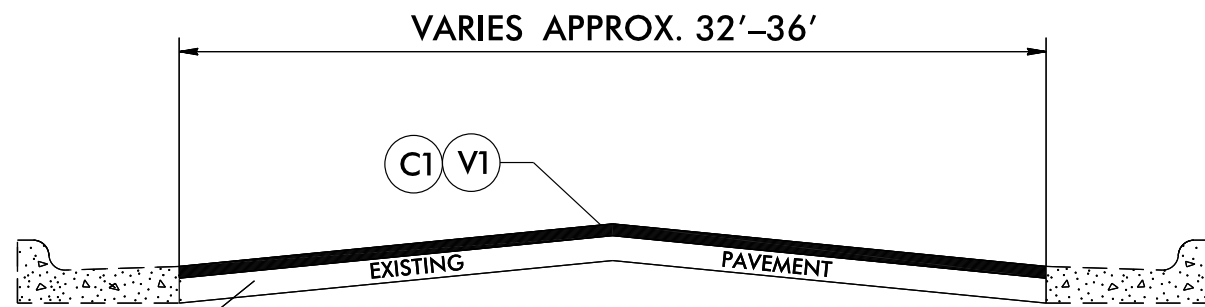








PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
S	AGGREGATE SHOULDER BORROW
U	EXISTING PAVEMENT
V1	MILLING 1.5" IN DEPTH



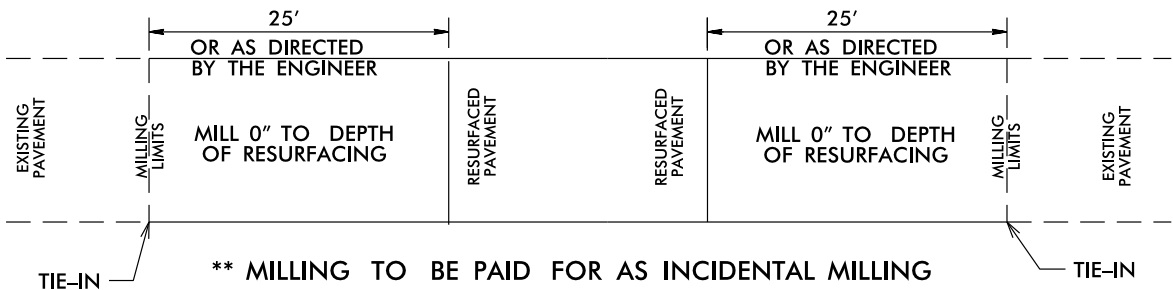
**TYPICAL SECTION NO. 3**

USE FOR MAPS 5 AND 7

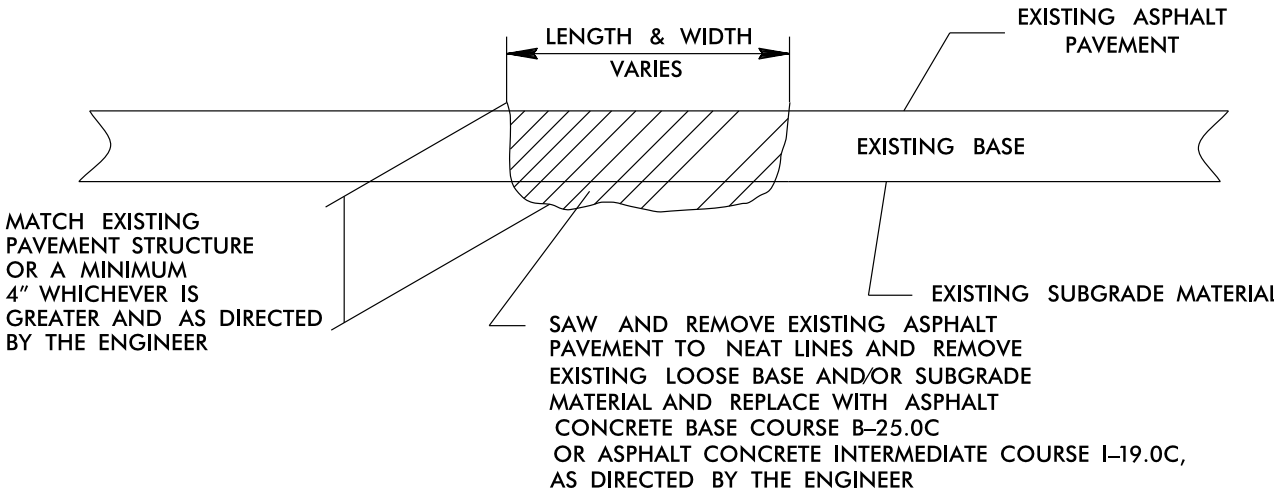
PAVEMENT SCHEDULE	
<b>C1</b>	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
<b>C2</b>	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
<b>S</b>	AGGREGATE SHOULDER BORROW
<b>U</b>	EXISTING PAVEMENT
<b>V1</b>	MILLING 1.5" IN DEPTH

# DETAILS

## PAVEMENT TIE-IN DETAIL



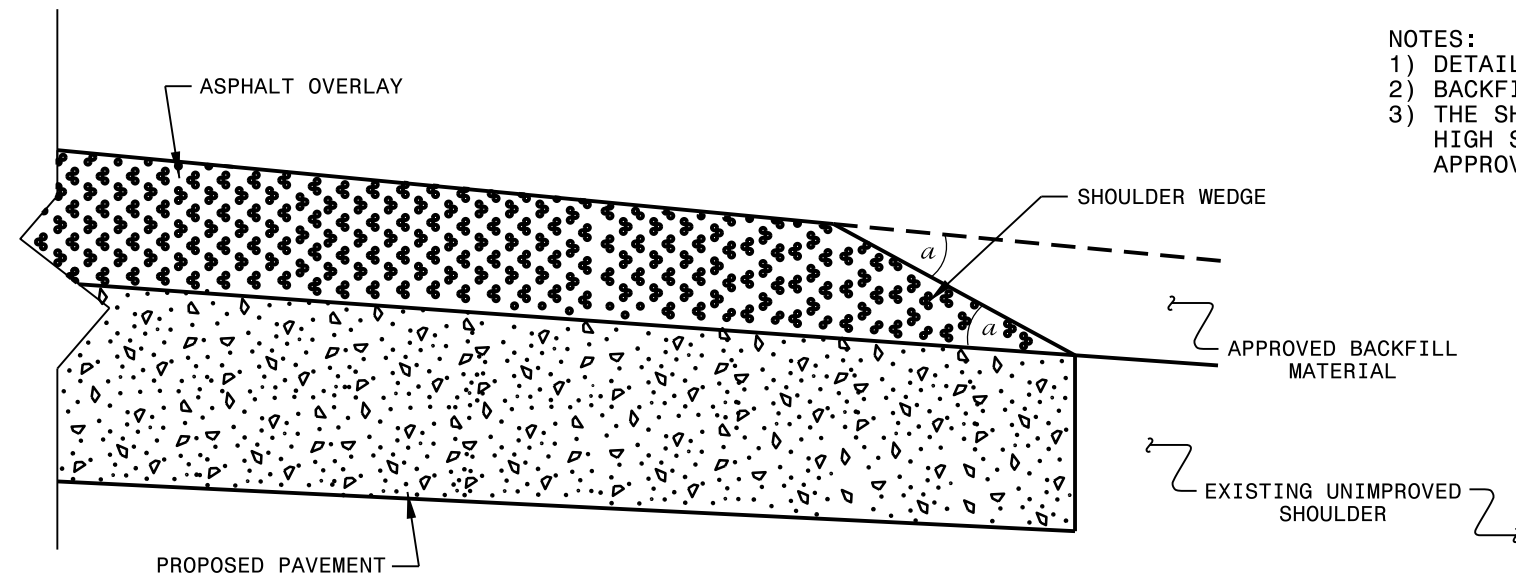
## DETAILS OF PATCHING EXISTING PAVEMENT DETAIL





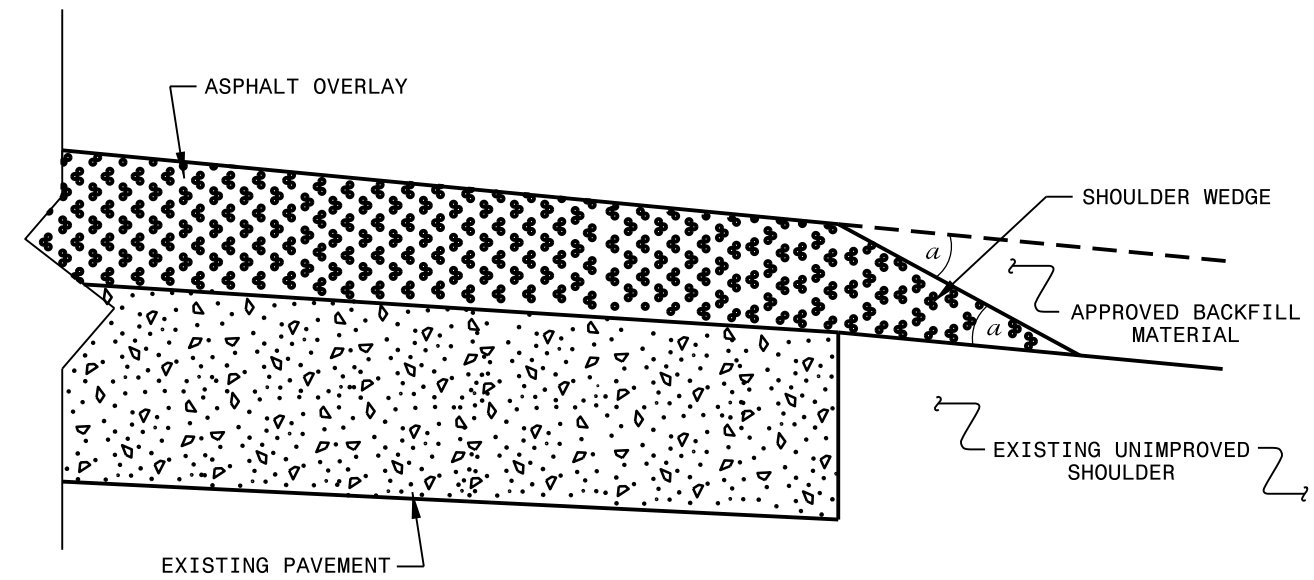
**NOTES:**

- 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.



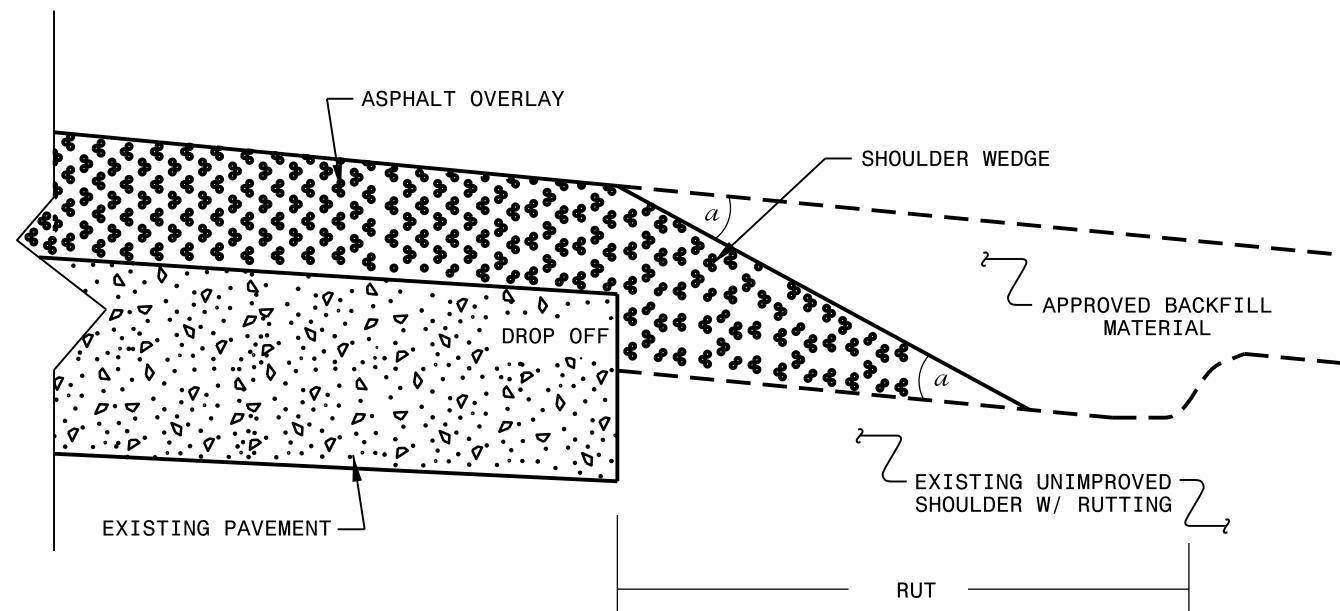
**SHOULDER WEDGE DETAIL**

(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°

<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.: szusr/details/stand/shoulderwedgedetail.dgn		

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.08.12.10771	14	
2025CPT.08.12.20771		

**SUMMARY OF QUANTITIES**

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	1245000000-E	1260000000-E	1297000000-E	1330000000-E	1519000000-E	1523000000-E	1575000000-E	1704000000-E	2830000000-N	2845000000-N	7444000000-E	7456100000-E			
												SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	1.5" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	SURFACE COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ADJUST MANHOLES	ADJUST METER OR VALVE BOX	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)			
												SMI	TON	SY	SY	TONS	TONS	TONS	TONS	EA	EA	LF	LF			
2025CPT.08.12.10771	Richmond	1	US-1 N	FROM PVMT JOINT 120 FT SOUTH OF SR 1699 (SEDFIELD RD) TO PVMT JOINT 600 FT SOUTH OF LOCH LAURIN LN	1	2	2WU	3.3	26	16.31	19.61	6.60	924.00		2,875		4,895	293	80		5					
<b>TOTAL FOR MAP NO. 1</b>								<b>3.3</b>				<b>6.60</b>	<b>924.00</b>		<b>2,875</b>		<b>4,895</b>	<b>293</b>	<b>80</b>		<b>5</b>					
2025CPT.08.12.10771	Richmond	2	NC-177	FROM PVMT JOINT 300 FT NORTH OF EARLE FRANKLIN RD TO PVMT JOINT 650 FT SOUTH OF US HWY 1	1	2	2WU	6.88	24	9.22	16.1	13.76	1,926.00		3,740		11,074	653			4					
<b>TOTAL FOR MAP NO. 2</b>								<b>6.88</b>				<b>13.76</b>	<b>1,926.00</b>		<b>3,740</b>		<b>11,074</b>	<b>653</b>			<b>4</b>					
<b>TOTAL FOR PROJ NO. 2025CPT.08.12.10771</b>								<b>10.18</b>				<b>20.36</b>	<b>2,850.00</b>		<b>6,615</b>		<b>15,969</b>	<b>946</b>	<b>80</b>		<b>9</b>					
2025CPT.08.12.20771	Richmond	3	SR-1455 / FIRE TOWER RD	FROM SR 1452 (PRESSLEY RANKIN HWY) TO SR 1499 (MILLSTONE RD)	2	2	2WU	0.5	21	4.39	4.89	1.00	140.00		100		508				33					
<b>TOTAL FOR MAP NO. 3</b>								<b>0.5</b>				<b>1.00</b>	<b>140.00</b>		<b>100</b>		<b>508</b>				<b>33</b>					
2025CPT.08.12.20771	Richmond	4	SR-1610 / OLD LAURINBURG RD/PEGGY MILL RD	FROM US 74 BUS TO SR 1613 (COLES STORE RD)	2	2	2WU	3.4	21	0	3.4	6.80	952.00		1,250		3,559				233	33				
<b>TOTAL FOR MAP NO. 4</b>								<b>3.4</b>				<b>6.80</b>	<b>952.00</b>		<b>1,250</b>		<b>3,559</b>				<b>233</b>	<b>33</b>				
2025CPT.08.12.20771	Richmond	5	SR-1624 / COUNTY HOME RD	FROM SR 1650 (S.LONG DR.) TO END OF CURB AND GUTTER SECTION	3	2	2WU	0.21	36	0	0.21				4,158	280	366				24		192	50		
<b>TOTAL FOR MAP NO. 5</b>								<b>0.21</b>							<b>4,158</b>	<b>280</b>	<b>366</b>				<b>24</b>		<b>192</b>	<b>50</b>		
2025CPT.08.12.20771	Richmond	6	SR-1624 / COUNTY HOME RD	FROM END OF CURB AND GUTTER SECTION TO SR 1640 (WIRE GRASS RD)	2	2	2WU	2.79	24	0.21	3	5.58	781.00		2,000		3,613				243	172	1	6	408	50
<b>TOTAL FOR MAP NO. 6</b>								<b>2.79</b>				<b>5.58</b>	<b>781.00</b>		<b>2,000</b>		<b>3,613</b>				<b>243</b>	<b>172</b>	<b>1</b>	<b>6</b>	<b>408</b>	<b>50</b>
2025CPT.08.12.20771	Richmond	7	SR-1499 / E CHURCH ST/MILLSTONE RD	FROM US HWY 220 (MAIN ST) TO END OF CURB AND GUTTER SECTION	3	2	2WU	0.5	32	0	0.5				9,660	187	812				53		12	4		
<b>TOTAL FOR MAP NO. 7</b>								<b>0.5</b>							<b>9,660</b>	<b>187</b>	<b>812</b>				<b>53</b>		<b>12</b>	<b>4</b>		
2025CPT.08.12.20771	Richmond	8	SR-1499 / E CHURCH ST/MILLSTONE RD	FROM END OF CURB AND GUTTER SECTION TO SR 1452 (PRESSLEY RANKIN HWY.)	2	2	2WU	0.68	24	0.5	1.18	1.36	190.00		325		817				53					
<b>TOTAL FOR MAP NO. 8</b>								<b>0.68</b>				<b>1.36</b>	<b>190.00</b>		<b>325</b>		<b>817</b>		<b>53</b>							
<b>TOTAL FOR PROJ NO. 2025CPT.08.12.20771</b>								<b>8.08</b>				<b>14.74</b>	<b>2,063.00</b>		<b>13,818</b>		<b>4,142</b>		<b>9,675</b>		<b>639</b>	<b>205</b>	<b>13</b>	<b>10</b>	<b>600</b>	<b>100</b>
<b>GRAND TOTAL</b>								<b>18.26</b>				<b>35.10</b>	<b>4,913.00</b>		<b>13,818</b>		<b>10,757</b>		<b>15,969</b>		<b>1,585</b>	<b>285</b>	<b>13</b>	<b>19</b>	<b>600</b>	<b>100</b>

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.08.12.10771	15	
2025CPT.08.12.20771		

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	4413000000-E WORK ZONE ADVANCE/ GENERAL WARNING SIGNING	4457000000-N TEMPORARY TRAFFIC CONTROL	4688000000-E					4720000000-E					4725000000-E			4815000000-E			4835000000-E		4895000000-N		4900000000-N						
														6" X 90 M WHITE THERMO	6" X 90 M YELLOW THERMO	12" X 90 M YELLOW THERMO	16" X 90 M WHITE THERMO	24" X 90 M WHITE THERMO	THERMO RXR 90 M	THERMO MSG ONLY 90 M	THERMO LT ARROW 90 M	THERMO RT ARROW 90 M	THERMO STR ARROW 90 M	THERMO STR & RT ARROW 90 M	6" WHITE PAINT	6" YELLOW PAINT	24" WHITE PAINT	GENERIC PAVEMENT MARKING ITEM POLYCARBONATE H-SHAPED MARKERS C&R	GENERIC PAVEMENT MARKING ITEM POLYCARBONATE H-SHAPED MARKERS Y&Y	CRYSTAL & RED MARKERS	YELLOW & YELLOW MARKERS									
								MI	FT			SF	LS	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA								
2025CPT.08.12.10771	Richmond	1	US-1 N	FROM PVMT JOINT 120 FT SOUTH OF SR 1899 (SEDFIELD RD) TO PVMT JOINT 600 FT SOUTH OF LOCH LAURIN LN	1	2	2WU	3.3	26	16.31	19.61	370	*	35,201	26,096	285				6	2									22	348									
<b>TOTAL FOR MAP NO. 1</b>								<b>3.3</b>				<b>370</b>		<b>35,201</b>	<b>26,096</b>	<b>285</b>				<b>6</b>	<b>2</b>								<b>22</b>	<b>348</b>										
2025CPT.08.12.10771	Richmond	2	NC-177	FROM PVMT JOINT 300 FT NORTH OF EARLE FRANKLIN RD TO PVMT JOINT 650 FT SOUTH OF US HWY 1	1	2	2WU	6.88	24	9.22	16.1	771	*	74,443	59,540	214	654	335	14		88	7	3						115	710										
<b>TOTAL FOR MAP NO. 2</b>								<b>6.88</b>				<b>771</b>		<b>74,443</b>	<b>59,540</b>	<b>214</b>	<b>654</b>	<b>335</b>	<b>14</b>		<b>88</b>	<b>7</b>	<b>3</b>						<b>115</b>	<b>710</b>										
<b>TOTAL FOR PROJ NO. 2025CPT.08.12.10771</b>								<b>10.18</b>				<b>1,141</b>		<b>109,644</b>	<b>85,636</b>	<b>499</b>	<b>654</b>	<b>335</b>	<b>14</b>		<b>94</b>	<b>9</b>	<b>3</b>						<b>137</b>	<b>1,058</b>										
														<b>195,280</b>							<b>14</b>		<b>106</b>					<b>1,195</b>												
2025CPT.08.12.20771	Richmond	3	SR-1455 / FIRE TOWER RD	FROM SR 1452 (PRESSLEY RANKIN HWY) TO SR 1499 (MILLSTONE RD)	2	2	2WU	0.5	21	4.39	4.89	56	*																											
<b>TOTAL FOR MAP NO. 3</b>								<b>0.5</b>				<b>56</b>																												
2025CPT.08.12.20771	Richmond	4	SR-1610 / OLD LAURINBURG RD/PEGGY MILL RD	FROM US 74 BUS TO SR 1613 (COLES STORE RD)	2	2	2WU	3.4	21	0	3.4	381	*																											
<b>TOTAL FOR MAP NO. 4</b>								<b>3.4</b>				<b>381</b>																												
2025CPT.08.12.20771	Richmond	5	SR-1624 / COUNTY HOME RD	FROM SR 1650 (S. LONG DR.) TO END OF CURB AND GUTTER SECTION	3	2	2WU	0.21	36	0	0.21	24	*	136	3,040	50				8	8	2									10	40								
<b>TOTAL FOR MAP NO. 5</b>								<b>0.21</b>				<b>24</b>		<b>136</b>	<b>3,040</b>	<b>50</b>				<b>8</b>	<b>8</b>	<b>2</b>									<b>10</b>	<b>40</b>								
2025CPT.08.12.20771	Richmond	6	SR-1624 / COUNTY HOME RD	FROM END OF CURB AND GUTTER SECTION TO SR 1640 (WIRE GRASS RD)	2	2	2WU	2.79	24	0.21	3	312	*	29,688	28,792	31				2			2							9	209									
<b>TOTAL FOR MAP NO. 6</b>								<b>2.79</b>				<b>312</b>		<b>29,688</b>	<b>28,792</b>	<b>31</b>				<b>2</b>			<b>2</b>							<b>9</b>	<b>209</b>									
2025CPT.08.12.20771	Richmond	7	SR-1499 / E CHURCH ST/MILLSTONE RD	FROM US HWY 220 (MAIN ST) TO END OF CURB AND GUTTER SECTION	3	2	2WU	0.5	32	0	0.5	56	*																											
<b>TOTAL FOR MAP NO. 7</b>								<b>0.5</b>				<b>56</b>																												
2025CPT.08.12.20771	Richmond	8	SR-1499 / E CHURCH ST/MILLSTONE RD	FROM END OF CURB AND GUTTER SECTION TO SR 1452 (PRESSLEY RANKIN HWY.)	2	2	2WU	0.68	24	0.5	1.18	76	*																											
<b>TOTAL FOR MAP NO. 8</b>								<b>0.68</b>				<b>76</b>																												
<b>TOTAL FOR PROJ NO. 2025CPT.08.12.20771</b>								<b>8.08</b>				<b>905</b>		<b>29,824</b>	<b>31,832</b>	<b>81</b>		<b>75</b>			<b>8</b>		<b>10</b>	<b>2</b>		<b>2</b>					<b>14,500</b>	<b>13,660</b>	<b>42</b>							
														<b>61,656</b>							<b>8</b>		<b>14</b>				<b>96,512</b>	<b>91,472</b>	<b>42</b>			<b>19</b>	<b>249</b>							
<b>GRAND TOTAL</b>														<b>18.26</b>				<b>2,046</b>	<b>1,000</b>	<b>139,468</b>	<b>117,468</b>	<b>580</b>	<b>654</b>	<b>410</b>	<b>14</b>	<b>8</b>	<b>104</b>	<b>11</b>	<b>3</b>	<b>2</b>		<b>96,512</b>	<b>91,472</b>	<b>42</b>			<b>137</b>	<b>1,058</b>	<b>19</b>	<b>249</b>
																				<b>256,936</b>					<b>22</b>		<b>120</b>				<b>187,984</b>			<b>1,195</b>			<b>268</b>			