

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
HIGHWAY DIVISION 6

# PLANS

**Let Date: May 3 , 2023**

**CONTRACT ID: DF00434**

**TIP NO.: -----**

**FEDERAL AID NO.: STATE FUNDED**

**WBS ELEMENT NO.: 2023CPT.06.11.20242.1**

**ROUTE NO.: VARIOUS SR**

**LOCATION: VARIOUS**

**COUNTY: COLUMBUS**

**TYPE OF WORK: ASPHALT SURFACE TREATMENT – DOUBLE SEALS**

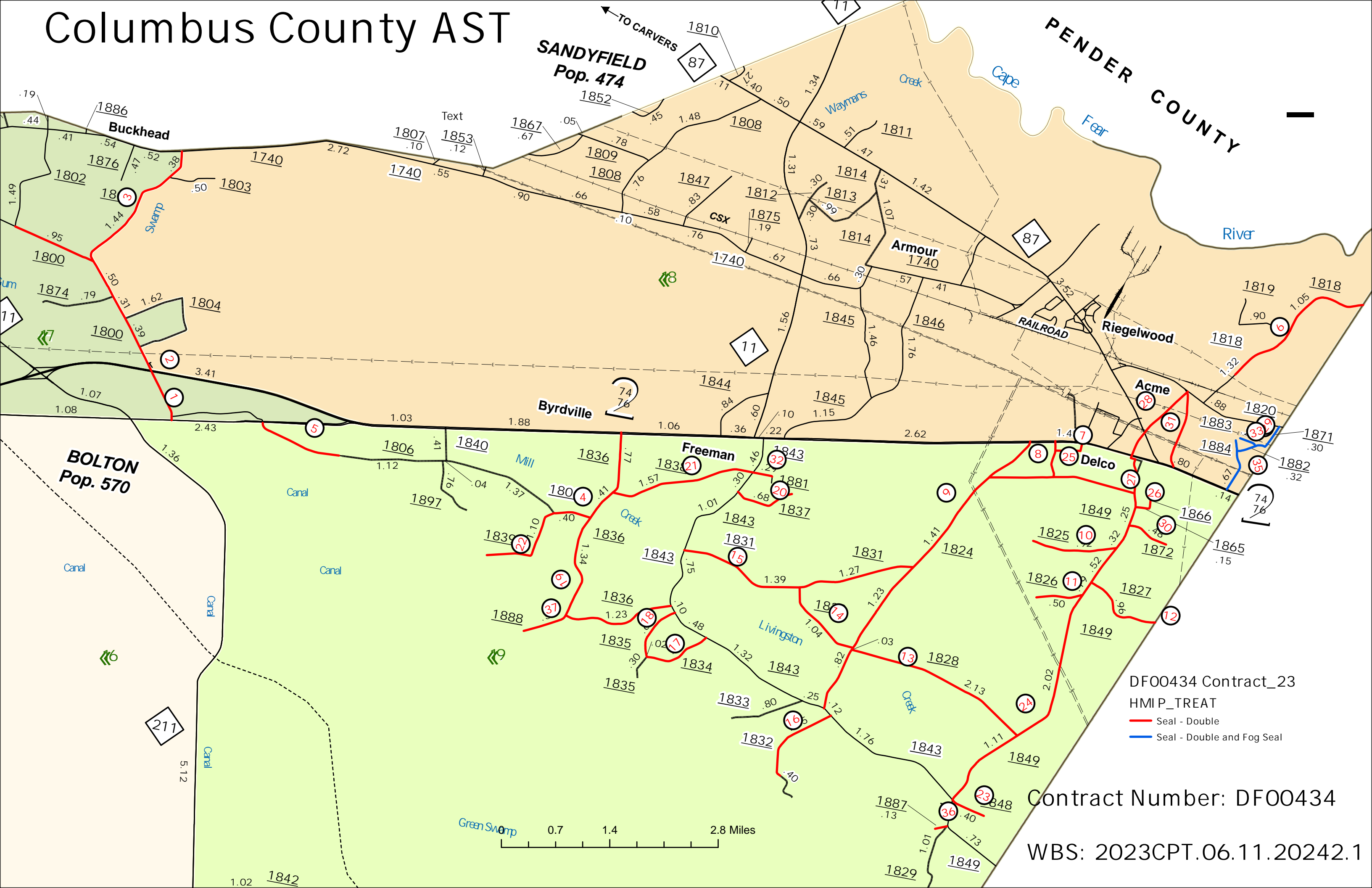
**LENGTH OF PROJECT: 43.39 MILES**

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# Columbus County AST



**SANDYFIELD**  
Pop. 474

**Buckhead**

**BOLTON**  
Pop. 570

**PENDER COUNTY**

DF00434 Contract\_23  
HMIP\_TREAT  
— Seal - Double  
— Seal - Double and Fog Seal

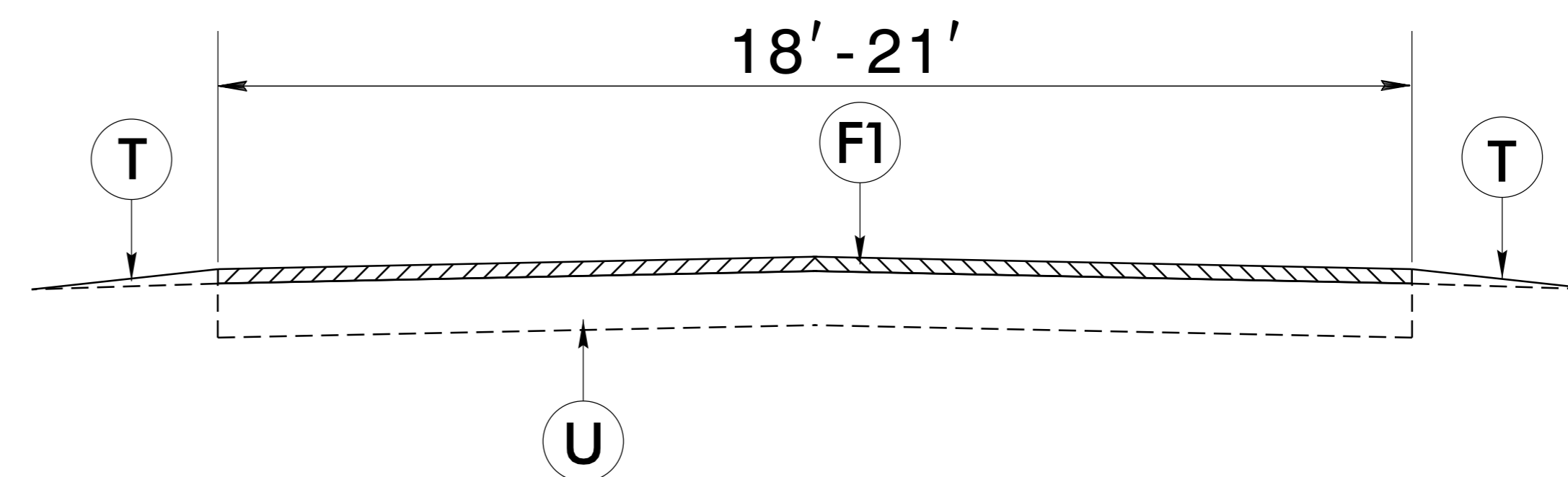
Contract Number: DF00434

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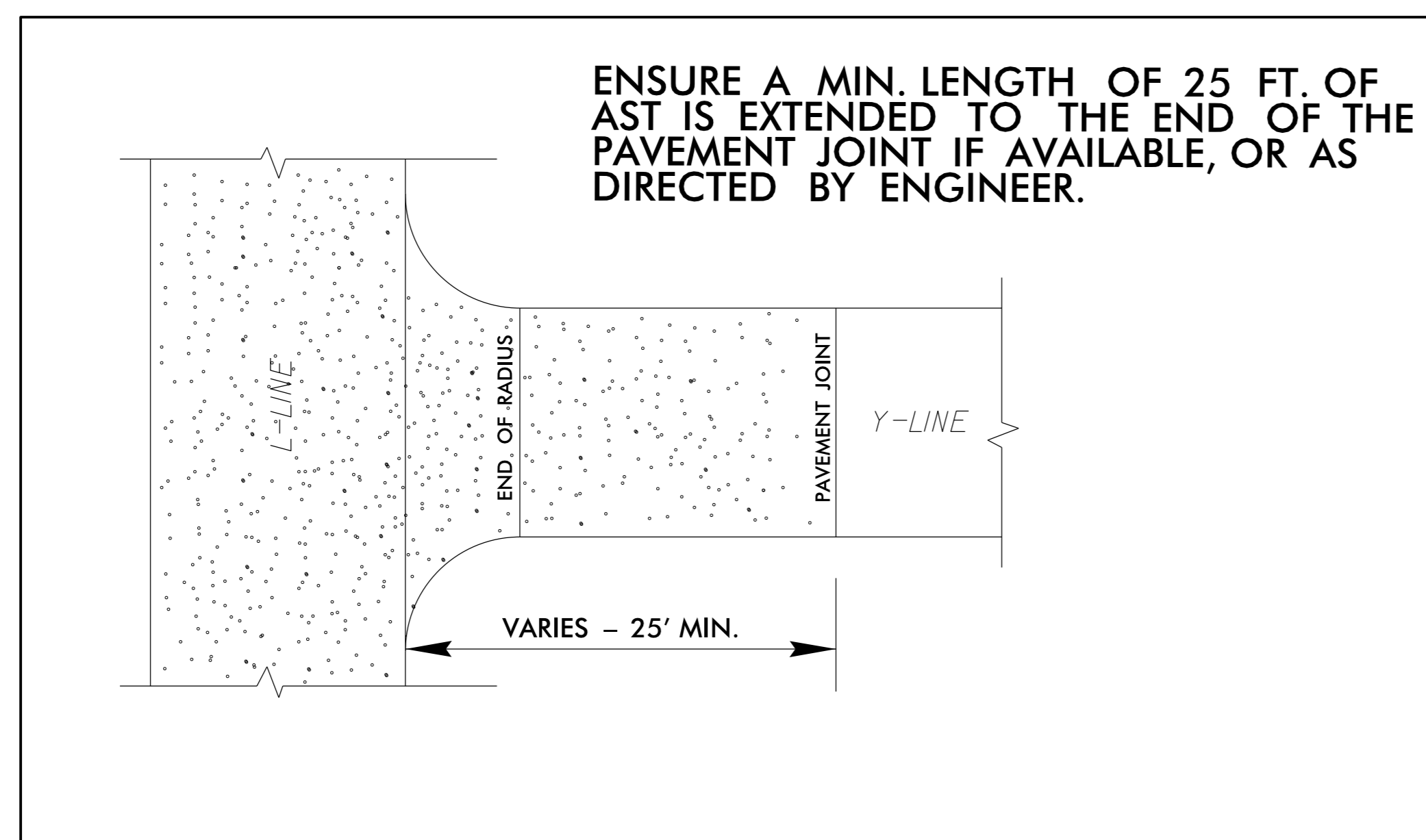
0.7 1.4 2.8 Miles

# PAVEMENT SCHEDULE

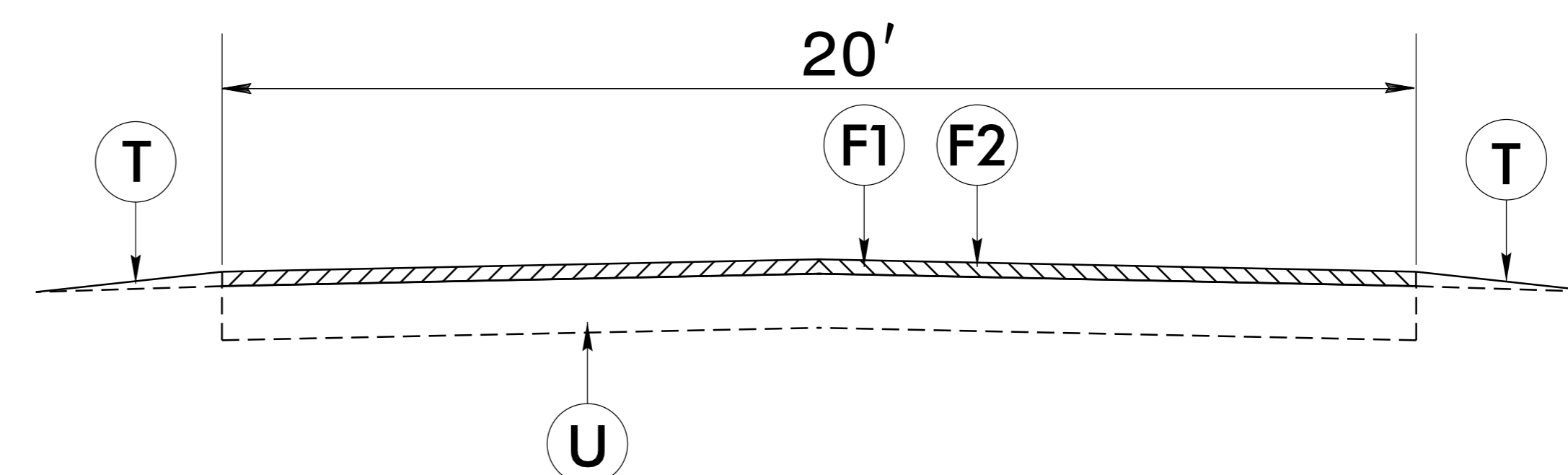
F1	DOUBLE SEAL PLACED ACCORDING TO THE SPECIAL PROVISION
F2	FOG SEAL PLACED ACCORDING TO THE SPECIAL PROVISION
T	EXISTING SHOULDER
U	EXISTING ASPHALT PAVEMENT



TYPICAL SECTION NO. 1



DETAIL 1  
-Y- LINE INTERSECTION TREATMENT



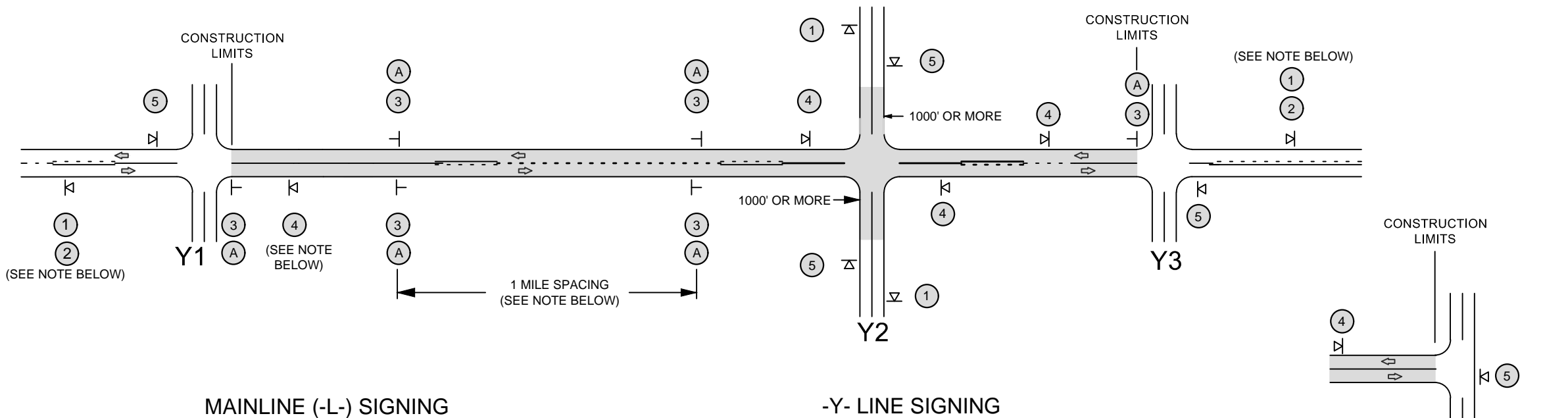
TYPICAL SECTION NO. 2

24-MAR-2023 10:02  
 33331\ASPER\WV\33331\2023\AST\DF00434\_2023CPT.06.11.20242.1.AST\_Columbus\Plans\tyfp.dgn  
 6/2/99

# SIGNING FOR ASPHALT SURFACE TREATMENT

**LEGEND**

- PORTABLE SIGN
- STATIONARY SIGN
- DIRECTION OF TRAFFIC FLOW



## MAINLINE (-L-) SIGNING

## -Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	<p>① ROAD WORK AHEAD W20-1 48" X 48"</p> <p>② NEXT XX MILES W7-3aP 24" X 18"</p>	<p>- PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>- SIGN #2 ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO THE NEAREST WHOLE NUMBER. DO NOT USE FRACTIONAL OR DECIMAL NUMBERS.</p>
	<p>③ LOOSE GRAVEL W8-7 48" X 48"</p> <p>UNMARKED PAVEMENT SP 48" X 48"</p>	<p>- ALTERNATE THE FOLLOWING TWO SIGNS:</p> <p>- STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT".</p> <p>- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER.</p> <p>- AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.</p>
	<p>A SPEED LIMIT 35 W13-1P 18" X 18"</p>	<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. SPEED LIMIT SIGN MAY BE PLACED ON SAME POST AS LOOSE GRAVEL SIGN, IF DESIRED.</p>
	<p>④ ROAD UNDER CONST SP 13106 48" X 48"</p>	<p>- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.</p> <p>- INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.</p> <p>- 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.</p> <p>- 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>⑤ END ROAD WORK G20-2 A 48" X 24"</p>	<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.</p>

STATIONARY SIGNING NOT REQUIRED FOR THE FOLLOWING -Y- LINE CONDITIONS:

- LESS THAN 1000' OF RESURFACING ALONG -Y- LINE
- SUBDIVISION ROADS
- 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.

W20-1 48" X 48"

PLACED 500' IN ADVANCE OF FLAGGER.

W20-7 A 48" X 48"

PLACED 250' IN ADVANCE OF FLAGGER.

**NOTE:**  
IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE PROPER PLACEMENT AND LOCATION OF WORK ZONE SIGNING PER THE STANDARD DRAWING. NCDOT HAS THE RIGHT TO INSPECT THE PLANNED LOCATIONS AND REQUIRE ADJUSTMENT BY THE CONTRACTOR, AS NEEDED, OR AS DIRECTED BY THE ENGINEER.

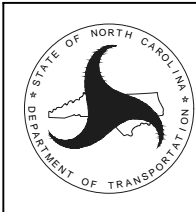
**MAPS LESS THAN 2 MILES**

FOR AST RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, USE A STATIONARY "LOOSE GRAVEL" SIGN AT THE BEGINNING CONSTRUCTION LIMIT FOLLOWED BY AN "UNMARKED PAVEMENT" SIGN MIDWAY THROUGH AND AN "END ROAD WORK" SIGN AT THE END CONSTRUCTION LIMIT.

REVISED - 12-13-2018

NCDOT - DIVISION 6

ADVANCE WARNING SIGNS FOR 2-LANE ROADWAY ASPHALT SURFACE TREATMENT



# SUMMARY OF QUANTITIES

										PROJECT NO.			SHEET NO.		TOTAL NO.		
										2023CPT.06.11.20242.1							
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH		WIDTH	1803500000-E	1820000000-E	1838000000-E	4413000000-E	4457000000-N		
								MI	FT		ASPHALT SURFACE TREATMENT, DOUBLE SEAL	ASPHALT SURFACE TREATMENT, FOG SEAL	EMULSION FOR ASPHALT SURFACE TREATMENT	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL		
											SY	SY	GAL	SF	LS		
2023CPT.06.11.20242.1	Columbus	1	SR-1800 / BLACKSMITH RD	FROM NC 214 TO US 74	1	2	2WU	0.66	20		7,744		4,259	112	1		
<b>TOTAL FOR MAP NO. 1</b>											<b>7,744</b>		<b>4,259</b>	<b>112</b>	<b>1</b>		
2023CPT.06.11.20242.1	Columbus	2	SR-1800 / BLACKSMITH RD	FROM US 74 TO SR 1802	1	2	2WU	2.48	20		29,099		16,004	195			
<b>TOTAL FOR MAP NO. 2</b>											<b>29,099</b>		<b>16,004</b>	<b>195</b>			
2023CPT.06.11.20242.1	Columbus	3	SR-1801 / BUCKHEAD RD	FROM SR 1740 TO SR 1800	1	2	2WU	1.82	20		21,355		11,745	112			
<b>TOTAL FOR MAP NO. 3</b>											<b>21,355</b>		<b>11,745</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	4	SR-1806 / SPEARMAN RD	FROM SR 1836 TO END PVMT	1	2	2WU	0.4	20		4,693		2,581	112			
<b>TOTAL FOR MAP NO. 4</b>											<b>4,693</b>		<b>2,581</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	5	SR-1806 / SPEARMAN RD	FROM BEG PVMT TO NC 214	1	2	2WU	0.95	20		11,147		6,131	112			
<b>TOTAL FOR MAP NO. 5</b>											<b>11,147</b>		<b>6,131</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	6	SR-1818 / NEILS EDDY RD	FROM SR 1820 TO BRUNSWICK CO	1	2	2WU	1.87	20		21,941		12,068	112			
<b>TOTAL FOR MAP NO. 6</b>											<b>21,941</b>		<b>12,068</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	7	SR-1822 / KAISER RD	FROM SR 1823 TO US 74	1	2	2WU	0.37	20		4,341		2,388	112			
<b>TOTAL FOR MAP NO. 7</b>											<b>4,341</b>		<b>2,388</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	8	SR-1823 / DEW OIL PLANT RD	FROM US 74 TO SR 1824	1	2	2WU	1.16	20		13,658		7,512	112			
<b>TOTAL FOR MAP NO. 8</b>											<b>13,658</b>		<b>7,512</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	9	SR-1824 / WATER TANK RD	FROM SR 1843 TO US 74	1	2	2WU	4.14	20		48,588		26,723	288			
<b>TOTAL FOR MAP NO. 9</b>											<b>48,588</b>		<b>26,723</b>	<b>288</b>			
2023CPT.06.11.20242.1	Columbus	10	SR-1825 / EVERGREEN CHURCH RD	FROM SR 1849 TO DEAD END	1	2	2WU	0.92	20		10,795		5,937	112			
<b>TOTAL FOR MAP NO. 10</b>											<b>10,795</b>		<b>5,937</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	11	SR-1826 / GREEN TREE RD	FROM SR 1849 TO DEAD END	1	2	2WU	0.5	20		5,867		3,227	112			
<b>TOTAL FOR MAP NO. 11</b>											<b>5,867</b>		<b>3,227</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	12	SR-1827 / UP THE BRANCH RD	FROM SR 1849 TO DEAD END	1	2	2WU	0.96	20		11,264		6,195	112			
<b>TOTAL FOR MAP NO. 12</b>											<b>11,264</b>		<b>6,195</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	13	SR-1828 / LENNON RD	FROM SR 1824 TO SR 1849	1	2	2WU	2.13	18		22,514		12,383	175			
<b>TOTAL FOR MAP NO. 13</b>											<b>22,514</b>		<b>12,383</b>	<b>175</b>			
2023CPT.06.11.20242.1	Columbus	14	SR-1830 / DOGWOOD STAND RD	FROM SR 1824 TO SR 1831	1	2	2WU	1.04	20		12,203		6,712	112			
<b>TOTAL FOR MAP NO. 14</b>											<b>12,203</b>		<b>6,712</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	15	SR-1831 / SWIMMING HOLE RD	FROM SR 1843 TO SR 1824	1	2	2WU	2.65	20		31,093		17,101	204			
<b>TOTAL FOR MAP NO. 15</b>											<b>31,093</b>		<b>17,101</b>	<b>204</b>			
2023CPT.06.11.20242.1	Columbus	16	SR-1832 / CONNOR RD	FROM SR 1843 TO END PAVEMENT	1	2	2WU	1.08	20		12,672		6,970	112			
<b>TOTAL FOR MAP NO. 16</b>											<b>12,672</b>		<b>6,970</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	17	SR-1834 / PINEY GROVE RD	FROM SR 1843 TO SR 1835	1	2	2WU	0.75	20		8,800		4,840	112			
<b>TOTAL FOR MAP NO. 17</b>											<b>8,800</b>		<b>4,840</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	18	SR-1835 / MATT DALE RD	FROM SR 1843 TO SR 1834	1	2	2WU	0.7	20		8,213		4,517	112			
<b>TOTAL FOR MAP NO. 18</b>											<b>8,213</b>		<b>4,517</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	19	SR-1836 / BYRDVILLE FREEMAN RD	FROM US 74 TO SR 1843	1	2	2WU	3.76	21		46,323		25,478	267			
<b>TOTAL FOR MAP NO. 19</b>											<b>46,323</b>		<b>25,478</b>	<b>267</b>			
2023CPT.06.11.20242.1	Columbus	20	SR-1837 / MITCHELL RD	FROM SR 1843 TO CUL DE SAC	1	2	2WU	0.68	20		7,979		4,388	112			
<b>TOTAL FOR MAP NO. 20</b>											<b>7,979</b>		<b>4,388</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	21	SR-1838 / OLD UNION RD	FROM SR 1843 TO SR 1836	1	2	2WU	1.57	20		18,421		10,132	112			
<b>TOTAL FOR MAP NO. 21</b>											<b>18,421</b>		<b>10,132</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	22	SR-1839 / SCOTT RD	FROM SR 1806 TO CUL DE SAC	1	2	2WU	1.1	20		12,907		7,099	112			
<b>TOTAL FOR MAP NO. 22</b>											<b>12,907</b>		<b>7,099</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	23	SR-1848 / BORDEAUX RD	FROM SR 1849 TO DEAD END	1	2	2WU	0.4	18		4,224		2,323	112			
<b>TOTAL FOR MAP NO. 23</b>											<b>4,224</b>		<b>2,323</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	24	SR-1849 / DELCO PROSPER RD	FROM US 74 TO SR 1843	1	2	2WU	5.11	20		59,957		32,976	342			
<b>TOTAL FOR MAP NO. 24</b>											<b>59,957</b>		<b>32,976</b>	<b>342</b>			
2023CPT.06.11.20242.1	Columbus	25	SR-1851 / BRINKLEY RD	FROM SR 1823 TO SR 1849	1	2	2WU	0.9	20		10,560		5,808	112			
<b>TOTAL FOR MAP NO. 25</b>											<b>10,560</b>		<b>5,808</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	26	SR-1865 / PETERSON RD	FROM SR 1849 TO SR 1866	1	2	2WU	0.15	18		1,584		871	112			
<b>TOTAL FOR MAP NO. 26</b>											<b>1,584</b>		<b>871</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	27	SR-1866 / PETERSON RD	FROM SR 1865 TO DEAD END	1	2	2WU	0.32	18		3,379		1,858	112			
<b>TOTAL FOR MAP NO. 27</b>											<b>3,379</b>		<b>1,858</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	28	SR-1870 /	FROM US 74 TO SR 1820	1	2	2WU	1.03	20		12,085		6,647	112			
<b>TOTAL FOR MAP NO. 28</b>											<b>12,085</b>		<b>6,647</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	29	SR-1871 / EDGEComb DR	FROM SR 1820 TO SR 1882	2	2	2WU	0.3	20		3,520	3,520.00	1,936	112			
<b>TOTAL FOR MAP NO. 29</b>											<b>3,520</b>	<b>3,520.00</b>	<b>1,936</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	30	SR-1872 / BIG BRANCH RD	FROM SR 1849 TO DEAD END	1	2	2WU	0.48	18		5,069		2,788	112			
<b>TOTAL FOR MAP NO. 30</b>											<b>5,069</b>		<b>2,788</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	31	SR-1878 / OLD 87 RD	FROM NC 87 TO SR 1870	1	2	2WU	0.98	20		11,499		6,324	112			
<b>TOTAL FOR MAP NO. 31</b>											<b>11,499</b>		<b>6,324</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	32	SR-1881 / MAULTSBY RD	FROM SR 1843 TO DEAD END	1	2	2WU	0.21	20		2,464		1,355	112			
<b>TOTAL FOR MAP NO. 32</b>											<b>2,464</b>		<b>1,355</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	33	SR-1882 / CURRITUCK RD	FROM SR 1871 TO SR 1884	2	2	2WU	0.32	20		3,755	3,755.00	2,065	112			
<b>TOTAL FOR MAP NO. 33</b>											<b>3,755</b>	<b>3,755.00</b>	<b>2,065</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	34	SR-1883 / ONSLOW RD	FROM SR 1882 TO SR 1884	2	2	2WU	0.2	20		2,347	2,347.00	1,291	112			
<b>TOTAL FOR MAP NO. 34</b>											<b>2,347</b>	<b>2,347.00</b>	<b>1,291</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	35	SR-1884 / PINELAND RD	FROM SR 1883 TO US 74	2	2	2WU	0.67	20		7,861	7,861.00	4,324	112			
<b>TOTAL FOR MAP NO. 35</b>											<b>7,861</b>	<b>7,861.00</b>	<b>4,324</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	36	SR-1887 / BAPTIST CHURCH RD	FROM SR 1849 TO DEAD END	1	2	2WU	0.13	20		1,525		839	112			
<b>TOTAL FOR MAP NO. 36</b>											<b>1,525</b>		<b>839</b>	<b>112</b>			
2023CPT.06.11.20242.1	Columbus	37	SR-1888 / LENA DALE RD	FROM SR 1836 TO DEAD END	1	2	2WU	0.5	20		5,867		3,227	112			
<b>TOTAL FOR MAP NO. 37</b>											<b>5,867</b>		<b>3,227</b>	<b>112</b>			
<b>TOTAL FOR PROJ NO. 2023CPT.06.11.20242.1</b>											<b>43.39</b>		<b>507,313</b>	<b>17,483.00</b>	<b>279,022</b>	<b>4,943</b>	<b>1,000</b>
<b>GRAND TOTAL</b>											<b>43.39</b>		<b>507,313</b>	<b>17,483.00</b>	<b>279,022</b>	<b>4,943</b>	<b>1,000</b>