

PROJECT NO.	SHEET NO.	TOTAL NO.
2017CPT.10.14.20842.1	1	5

### SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	BEGIN MP	END MP	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	ASPHALT SURFACE TREATMENT, DOUBLE SEAL SY	EMULSION FOR ASPHALT SURFACE TREATMENT GAL	BLOTTING SAND TON	WORK ZONE ADVANCE/GENERAL WARNING SIGNING SF	TEMPORARY TRAFFIC CONTROL LS		
2017CPT.10.14.20842.1	Stanly	1	PHILADELPHIA CH RD (SR 1109)	FROM BUSTER RD (SR 1118) TO NC 205	2.84	3.98	2	NO	NO	1.14	20	13,376	7,357		80			
<b>TOTAL FOR MAP NO. 1</b>										<b>1.14</b>		<b>13,376</b>	<b>7,357</b>		<b>80</b>			
2017CPT.10.14.20842.1	Stanly	2	BUSTER RD (SR 1118)	FROM PHILADELPHIA CH RD (SR 1109) TO NC 200	0	3.81	2	NO	NO	3.81	18	40,234	22,129		112			
<b>TOTAL FOR MAP NO. 2</b>										<b>3.81</b>		<b>40,234</b>	<b>22,129</b>		<b>112</b>			
2017CPT.10.14.20842.1	Stanly	3	RUSHING RD (SR 1124)	FROM LOVE MILL RD (SR 1001) TO RUSHING RD (SR 1124)	0	0.96	2	NO	NO	0.96	18	10,138	5,576		112			
<b>TOTAL FOR MAP NO. 3</b>										<b>0.96</b>		<b>10,138</b>	<b>5,576</b>		<b>112</b>			
2017CPT.10.14.20842.1	Stanly	4	SOUTHWAY DR (SR 1167)	FROM NC 24/27 TO EOM	0	0.15	2	NO	NO	0.15	18	1,584	871		56			
<b>TOTAL FOR MAP NO. 4</b>										<b>0.15</b>		<b>1,584</b>	<b>871</b>		<b>56</b>			
2017CPT.10.14.20842.1	Stanly	5	WESTWAY DR (SR 1168)	FROM SOUTHWAY DR (SR 1167) TO EOM	0	0.22	2	NO	NO	0.22	18	2,323	1,278		56			
<b>TOTAL FOR MAP NO. 5</b>										<b>0.22</b>		<b>2,323</b>	<b>1,278</b>		<b>56</b>			
2017CPT.10.14.20842.1	Stanly	6	GADDIS RD (SR 1218)	FROM NC 24/27 TO FROG POND RD (SR 1221)	0	1.63	2	NO	NO	1.63	18	17,213	9,467		112			
<b>TOTAL FOR MAP NO. 6</b>										<b>1.63</b>		<b>17,213</b>	<b>9,467</b>		<b>112</b>			
2017CPT.10.14.20842.1	Stanly	7	CREST RD (SR 1223)	FROM RIDGECREST RD (SR 1227) TO DEAD END	0	0.33	2	NO	NO	0.33	18	3,485	1,917		56			
<b>TOTAL FOR MAP NO. 7</b>										<b>0.33</b>		<b>3,485</b>	<b>1,917</b>		<b>56</b>			
2017CPT.10.14.20842.1	Stanly	8	JOY RD (SR 1224)	FROM AUSTIN RD (SR 1214) TO RIDGECREST RD (SR 1227)	0	1.4	2	NO	NO	1.4	18	14,784	8,131		112			
<b>TOTAL FOR MAP NO. 8</b>										<b>1.4</b>		<b>14,784</b>	<b>8,131</b>		<b>112</b>			
2017CPT.10.14.20842.1	Stanly	9	STONY RD (SR 1283)	FROM AUSTIN RD (SR 1214) TO RUNNING CREEK CH RD (SR 1134)	0	0.9	2	NO	NO	0.9	18	9,504	5,527		112			
<b>TOTAL FOR MAP NO. 9</b>										<b>0.9</b>		<b>9,504</b>	<b>5,527</b>		<b>112</b>			
2017CPT.10.14.20842.1	Stanly	10	PAUL'S CROSSING RD (SR 1451)	FROM ROGERS RD (SR 1434) TO HWY 49	2.07	4.9	2	NO	NO	2.83	20	33,205	18,263		150			
<b>TOTAL FOR MAP NO. 10</b>										<b>2.83</b>		<b>33,205</b>	<b>18,263</b>		<b>150</b>			
2017CPT.10.14.20842.1	Stanly	11	SHORE FARM RD (SR 1742)	FROM INDIAN MOUND RD (SR 1740) TO RANDALLS CH RD (SR 1743)	0	1.36	2	NO	NO	1.36	18	14,362	7,899		56			
<b>TOTAL FOR MAP NO. 11</b>										<b>1.36</b>		<b>14,362</b>	<b>7,899</b>		<b>56</b>			
2017CPT.10.14.20842.1	Stanly	12	RANDALLS CH RD (SR 1743)	FROM INDIAN MOUND RD (SR 1740) TO RANDALLS FERRY RD (SR 1802)	0	1.14	2	NO	NO	1.14	20	13,376	7,357		56			
<b>TOTAL FOR MAP NO. 12</b>										<b>1.14</b>		<b>13,376</b>	<b>7,357</b>		<b>56</b>			
2017CPT.10.14.20842.1	Stanly	13	SNUGGS RD (SR 1744)	FROM US 52 TO INDIAN MOUND RD (SR 1740)	0	3.24	2	NO	NO	3.24	18	34,214	18,818		150			
<b>TOTAL FOR MAP NO. 13</b>										<b>3.24</b>		<b>34,214</b>	<b>18,818</b>		<b>150</b>			
2017CPT.10.14.20842.1	Stanly	14	LEHUE PARKER RD (SR 1755)	FROM LAKE SHORE RD (SR 1797) TO BERRY HILL DR (SR 1755)	0	0.35	2	NO	NO	0.35	18	3,696	2,033		56			
<b>TOTAL FOR MAP NO. 14</b>										<b>0.35</b>		<b>3,696</b>	<b>2,033</b>		<b>56</b>			
2017CPT.10.14.20842.1	Stanly	15	BERRY HILL DR (SR 1755)	FROM LEHUE PARKER (SR 1794) TO BERRY HILL DR (SR 1755)	0.35	3.36	2	NO	NO	3.01	18	31,786	17,482		150			
<b>TOTAL FOR MAP NO. 15</b>										<b>3.01</b>		<b>31,786</b>	<b>17,482</b>		<b>150</b>			
2017CPT.10.14.20842.1	Stanly	16	OAKWOOD RD (SR 1787)	FROM INDIAN MOUND RD (SR 1740) TO INDIAN MOUND RD (SR 1740)	0	1.45	2	NO	NO	1.45	18	15,312	8,422		118			
<b>TOTAL FOR MAP NO. 16</b>										<b>1.45</b>		<b>15,312</b>	<b>8,422</b>		<b>118</b>			
2017CPT.10.14.20842.1	Stanly	17	LEHUE PARKER RD (SR 1794)	FROM PEE DEE AVE (SR 1740) TO BERRY HILL DR (SR 1755)	0	0.2	2	NO	NO	0.2	18	2,112	1,162		56			
<b>TOTAL FOR MAP NO. 17</b>										<b>0.2</b>		<b>2,112</b>	<b>1,162</b>		<b>56</b>			
2017CPT.10.14.20842.1	Stanly	18	LAKE SHORE DR (SR 1797)	FROM INDIAN MOUND RD (SR 1740) TO BERRY HILL DR (SR 1755)	0	1.2	2	NO	NO	1.2	18	12,672	6,970		56			
<b>TOTAL FOR MAP NO. 18</b>										<b>1.2</b>		<b>12,672</b>	<b>6,970</b>		<b>56</b>			
2017CPT.10.14.20842.1	Stanly	19	RANDALLS FERRY RD (SR 1802)	FROM RANDALLS CH RD (SR 1743) TO RANDALLS CH RD (SR 1743)	0	2.02	2	NO	NO	2.02	20	23,701	13,036		56			
<b>TOTAL FOR MAP NO. 19</b>										<b>2.02</b>		<b>23,701</b>	<b>13,036</b>		<b>56</b>			
2017CPT.10.14.20842.1	Stanly	20	PINE TREE RD (SR 1806)	FROM PINEY POINT RD (SR 1768) TO SYCAMORE RD (SR 1824)	0	0.99	2	NO	NO	0.99	18	10,454	5,750		56			
<b>TOTAL FOR MAP NO. 20</b>										<b>0.99</b>		<b>10,454</b>	<b>5,750</b>		<b>56</b>			
2017CPT.10.14.20842.1	Stanly	21	PARADISE LN (SR 1807)	FROM RANDALLS FERRY RD (SR 1802) TO THE DEAD END	0	0.36	2	NO	NO	0.36	18	3,802	2,091		56			
<b>TOTAL FOR MAP NO. 21</b>										<b>0.36</b>		<b>3,802</b>	<b>2,091</b>		<b>56</b>			
2017CPT.10.14.20842.1	Stanly	22	QUAIL TRAIL RD (SR 1809)	FROM PINEY POINT RD (SR 1768) TO THE DEAD END	0	1.24	2	NO	NO	1.24	20	14,549	8,002		56			
<b>TOTAL FOR MAP NO. 22</b>										<b>1.24</b>		<b>14,549</b>	<b>8,002</b>		<b>56</b>			
2017CPT.10.14.20842.1	Stanly	23	SYCAMORE RD (SR 1824)	FROM PINE TREE RD (SR 1806) TO THE DEAD END	0	0.18	2	NO	NO	0.18	18	1,901	1,046		56			
<b>TOTAL FOR MAP NO. 23</b>										<b>0.18</b>		<b>1,901</b>	<b>1,046</b>		<b>56</b>			
<b>TOTAL FOR PROJ NO. 2017CPT.10.14.20842.1</b>										<b>30.11</b>		<b>327,783</b>	<b>180,584</b>	<b>20.00</b>	<b>1,936</b>	<b>1</b>		
<b>GRAND TOTAL</b>												<b>30.11</b>		<b>327,783</b>	<b>180,584</b>	<b>20.00</b>	<b>1,936</b>	<b>1</b>

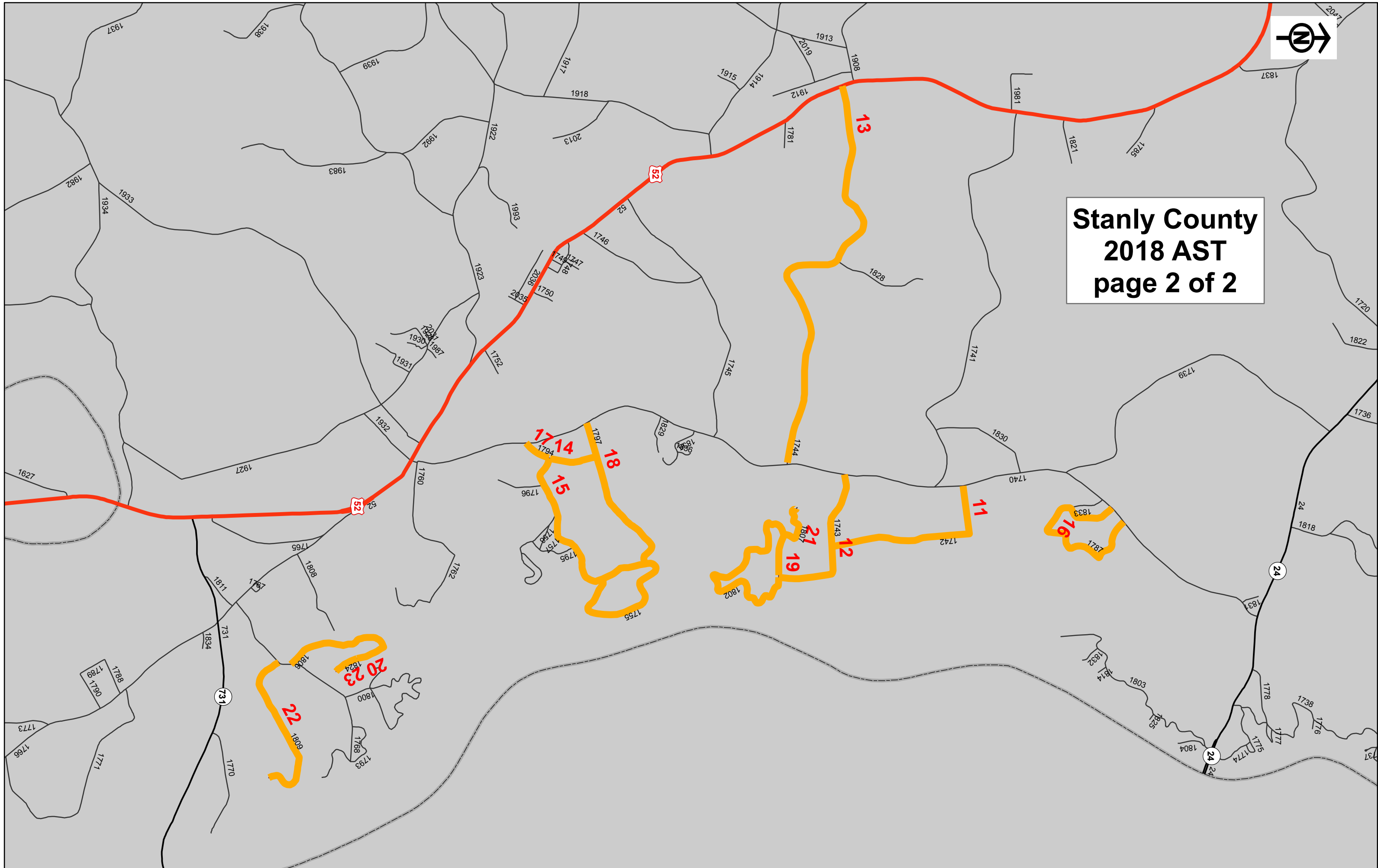


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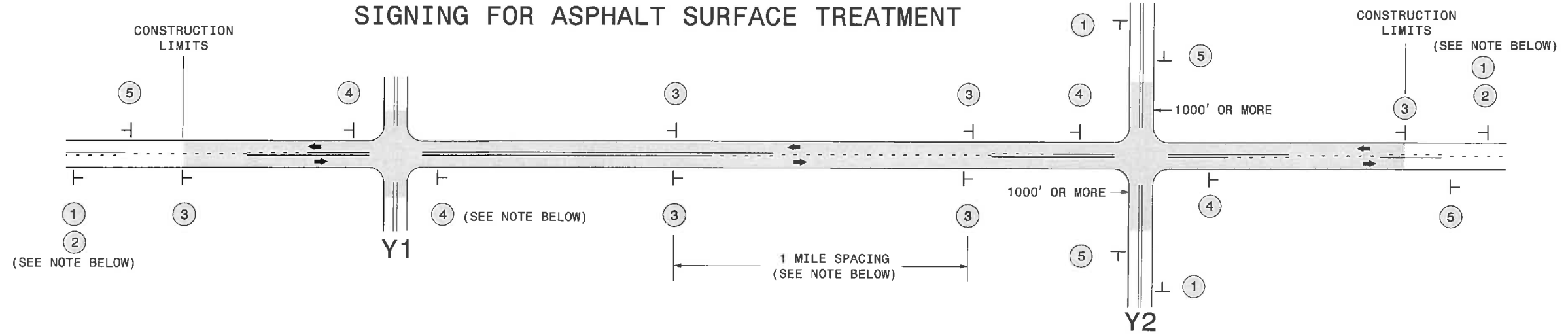




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## SIGNING FOR ASPHALT SURFACE TREATMENT



LEGEND	
	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

### MAINLINE (-L-) SIGNING

### -Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1	 <small>W20-1 48" X 48"</small>	<p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)</p>
	2	 <small>W7-30P 24" X 18"</small>	
	3	 <small>W8-7 48" X 48"</small>   <small>SP 48" X 48"</small>	<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. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.</p>
	4	 <small>SP 13106 48" X 48"</small>	<p>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.</p>
	5	 <small>G20-2 A 48" X 24"</small>	<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>

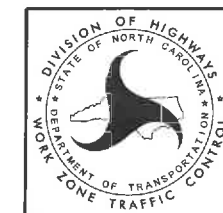
NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

- 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE
- 2) SUBDIVISION ROADS
- 3) DEAD END ROADS

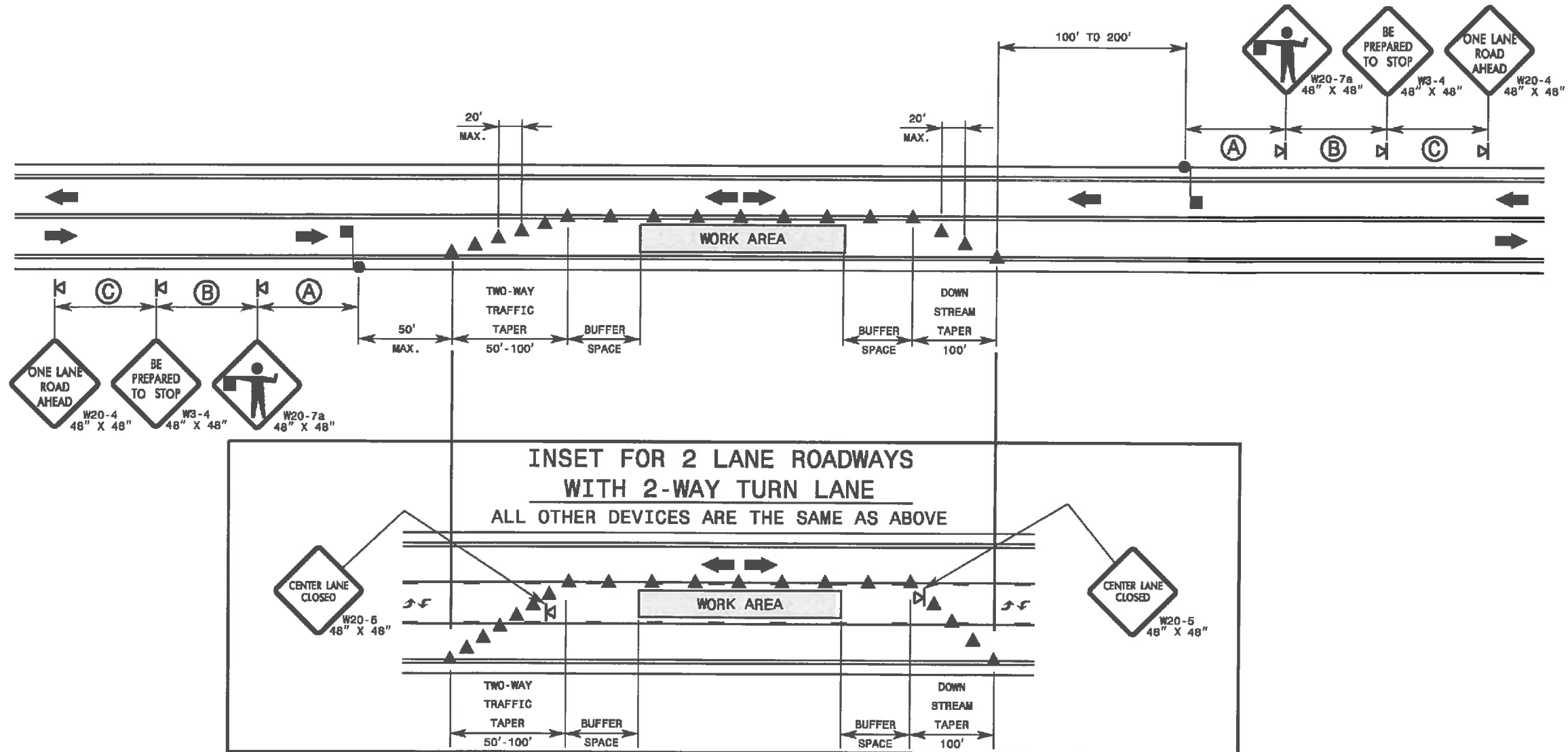
WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.



PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.



ADVANCE WARNING SIGNS  
FOR  
ASPHALT SURFACE TREATMENTS  
2 LANE ROADWAYS



**GENERAL NOTES FOR FLAGGER OPERATIONS**

- 1- REFER TO STD. 1101.11 SHEET 4 FOR SIGN SPACING.
- 2- INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC.
- 3- REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- 4- PLACE CONES THRU THE WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
- 5- EXTEND LANE CLOSURES AT THE BUFFER SPACE SUCH THAT STOPPING SIGHT DISTANCE IS PROVIDED TO THE FLAGGER (REFER TO STD. 1101.11 SHEET 2).
- 6- DO NOT STOP TRAFFIC IN ANY ONE DIRECTION FOR MORE THAN 5 MINUTES AT A TIME.
- 7- DRUMS OR SKINNY-DRUMS MAY BE USED IN LIEU OF CONES. REFER TO ROADWAY STANDARD DRAWING 1180.01 FOR SKINNY-DRUM REQUIREMENTS.
- 8- USE FLAGGERS TO CONTROL TRAFFIC AT INTERSECTIONS AFFECTED BY THE LANE CLOSURE. SUPPLEMENT FLAGGERS LOCATED AT INTERSECTIONS WITH FLAGGER AHEAD SIGNS (W20-7a) PLACED APPROXIMATELY 250 FT. IN ADVANCE OF THE FLAGGER. FOR SIGNALIZED INTERSECTIONS PLACE SIGNALS IN THE FLASH MODE AND RECOMMEND THE USE OF LAW ENFORCEMENT.
- 9- REFER TO 2009 MUTCD, CHAPTER 6, FOR FLAGGER CONTROL, REQUIREMENTS, AND PROCEDURES.
- 10- DO NOT EXCEED A 1 MILE LANE CLOSURE LENGTH UNLESS OTHERWISE SHOWN IN THE TMP OR AS DIRECTED BY THE ENGINEER.

**GENERAL NOTES FOR PILOT CAR OPERATIONS**

- 1- USE PILOT CARS WHEN DIRECTED BY THE ENGINEER.
- 2- IF ROADWAY WIDTH IS LESS THAN 22 FEET (EOP TO EOP), CONES MAY NOT BE REQUIRED ALONG WORK AREA, AND AT THE DISCRETION OF THE ENGINEER, CONES MAY BE OMITTED ALONG THE WORK AREA IF USING A PILOT CAR.
- 3- CONES ARE ALWAYS REQUIRED IN THE UPSTREAM AND DOWNSTREAM TAPERS.
- 4- MOUNT SIGN G20-4 "PILOT CAR FOLLOW ME" AT A CONSPICUOUS POSITION ON THE REAR OF THE PILOT VEHICLE.
- 5- DO NOT INSTALL MORE THAN ONE (1) MILE OF LANE CLOSURE, MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- 6- ADVISE RESIDENTS AND BUSINESSES WITHIN THE LANE CLOSURE LIMITS ABOUT METHODS OF SAFE EGRESS AND INGRESS FROM DRIVEWAYS DURING FLAGGING AND PILOT CAR OPERATIONS.

**LEGEND**

- FLAGGER
- CONE
- PORTABLE SIGN
- DIRECTION OF TRAFFIC FLOW