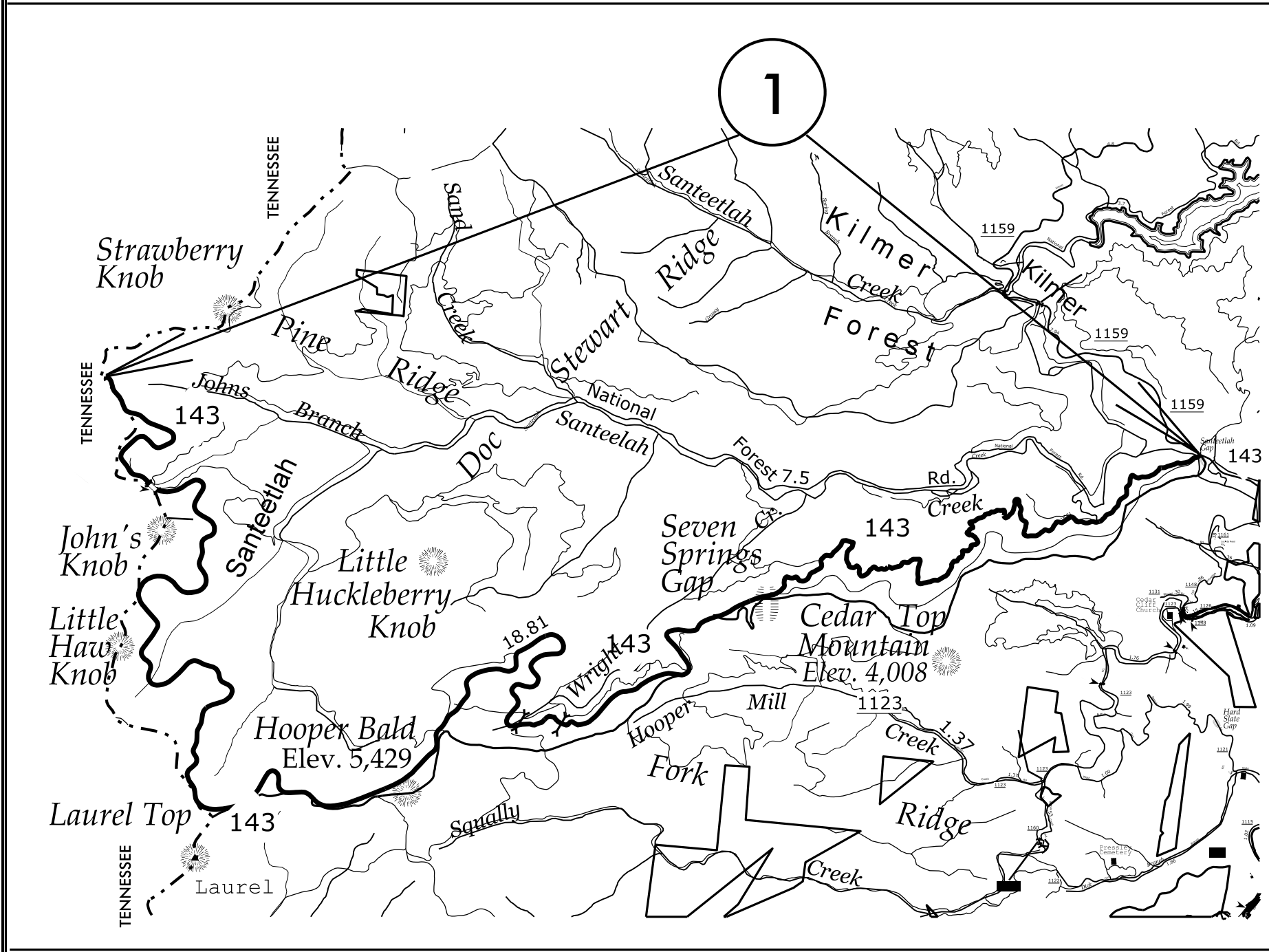


TIP PROJECT: R-5770

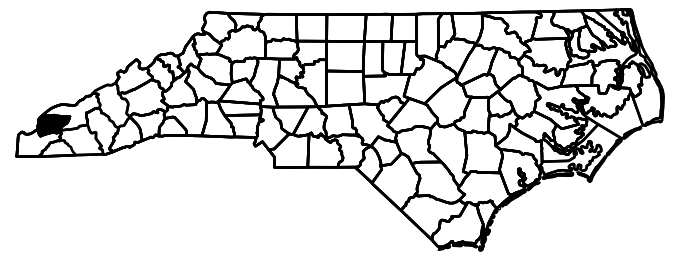
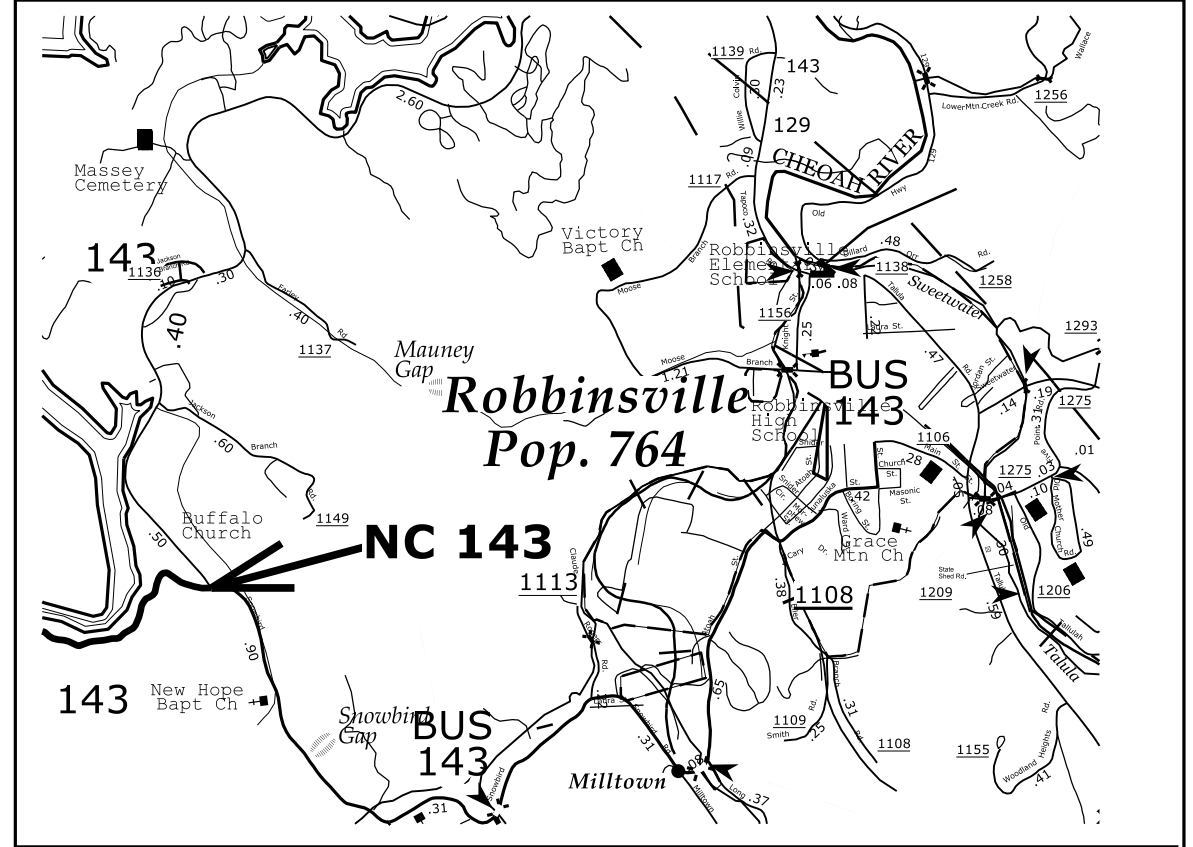
CONTRACT: C203856

GRAHAM COUNTY

PROJECT REFERENCE NO.		SHEET NO.
R-5770		1
STATE PROJECT	F.A. PROJECT NO.	DESCRIPTION
44671.3.1	NC FLAP DOT 143(1)	CONST.

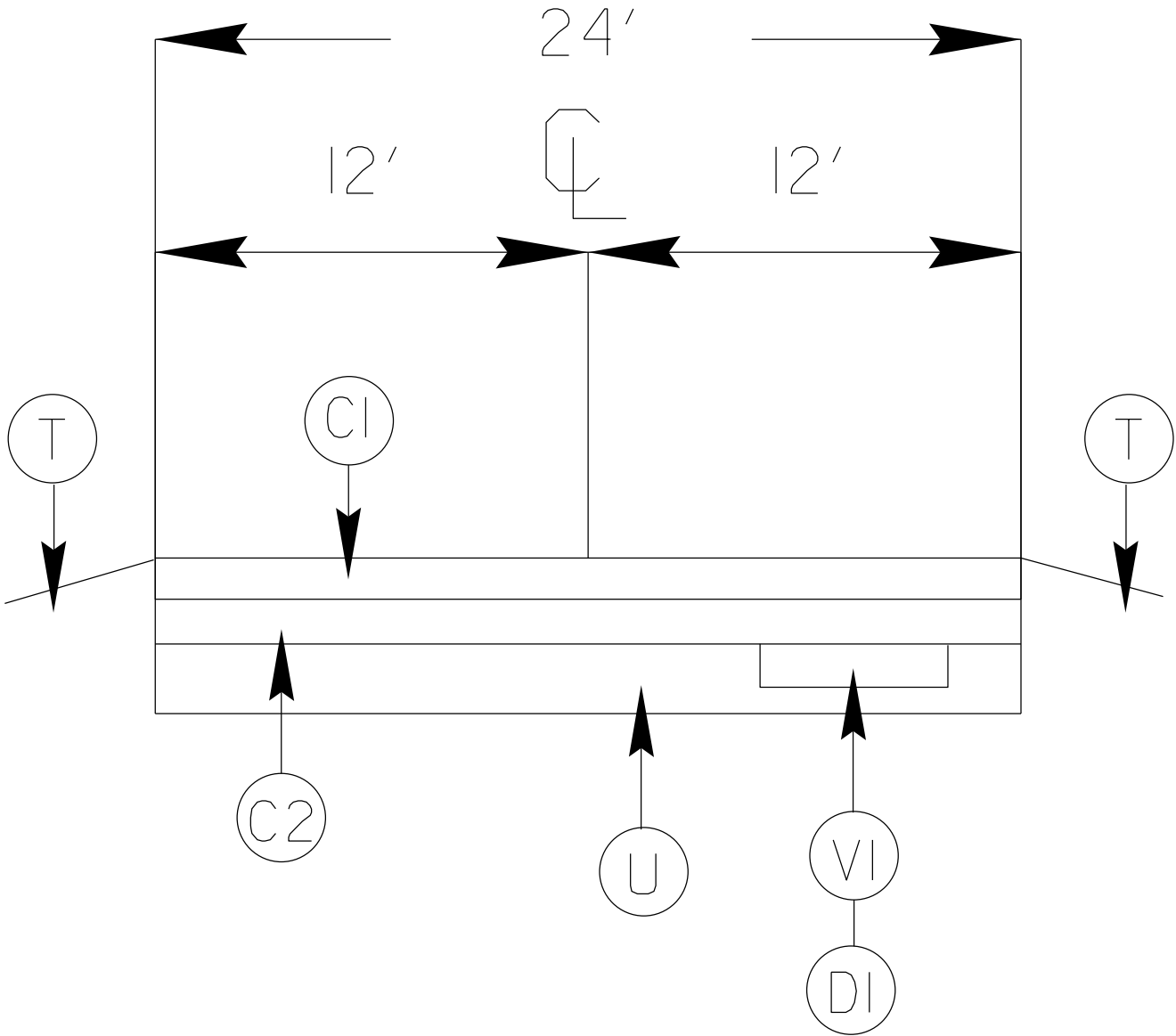


VICINITY MAP TO NC 143

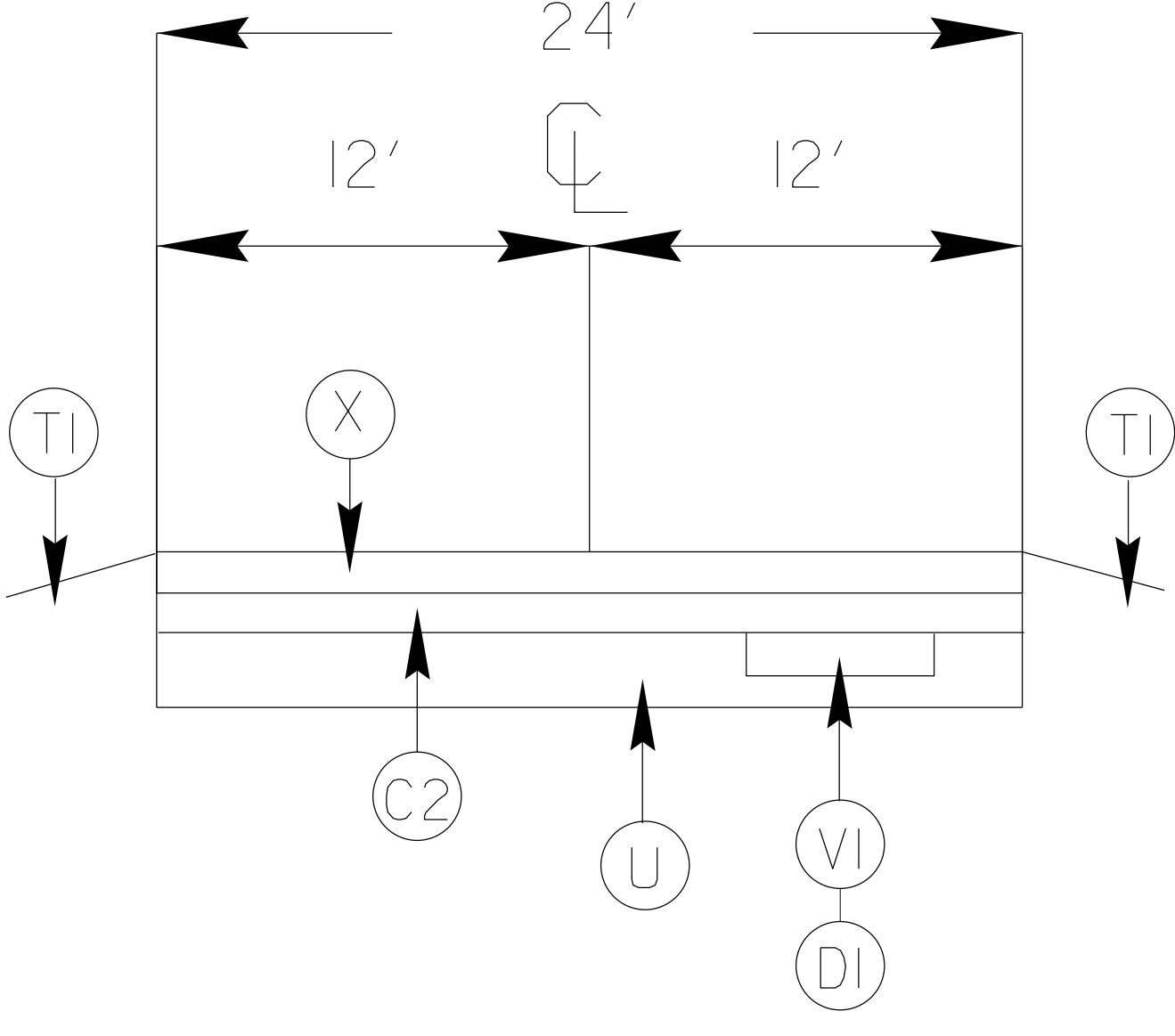


PROJECT REFERENCE NO.		SHEET NO.
R-5770		2
STATE PROJECT	F.A. PROJECT NO.	DESCRIPTION
44671.3.1	NC FLAP DOT 143(1)	CONST.

TYPICAL 1
ALT 1



TYPICAL 1
ALT 2



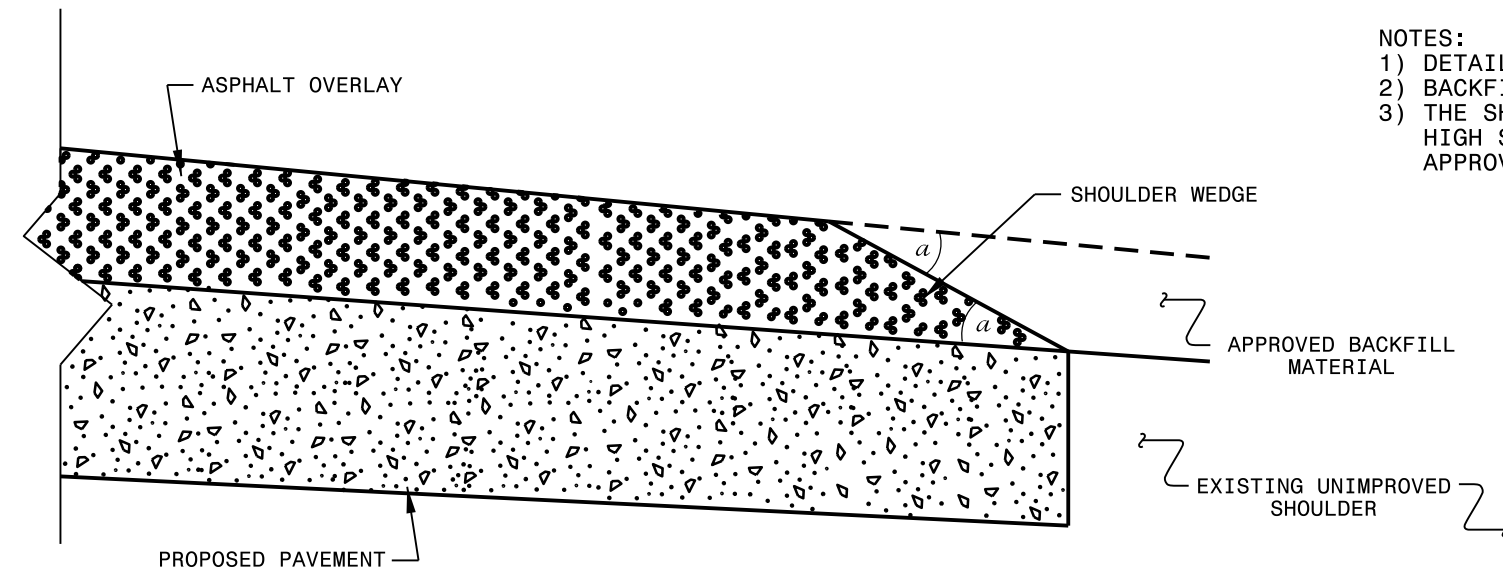
PROJECT REFERENCE NO.		SHEET NO.
R-5770		3
STATE PROJECT	F.A. PROJECT NO.	DESCRIPTION
44671.3.1	NC FLAP DOT 143(1)	CONST.

SURFACING SCHEDULE

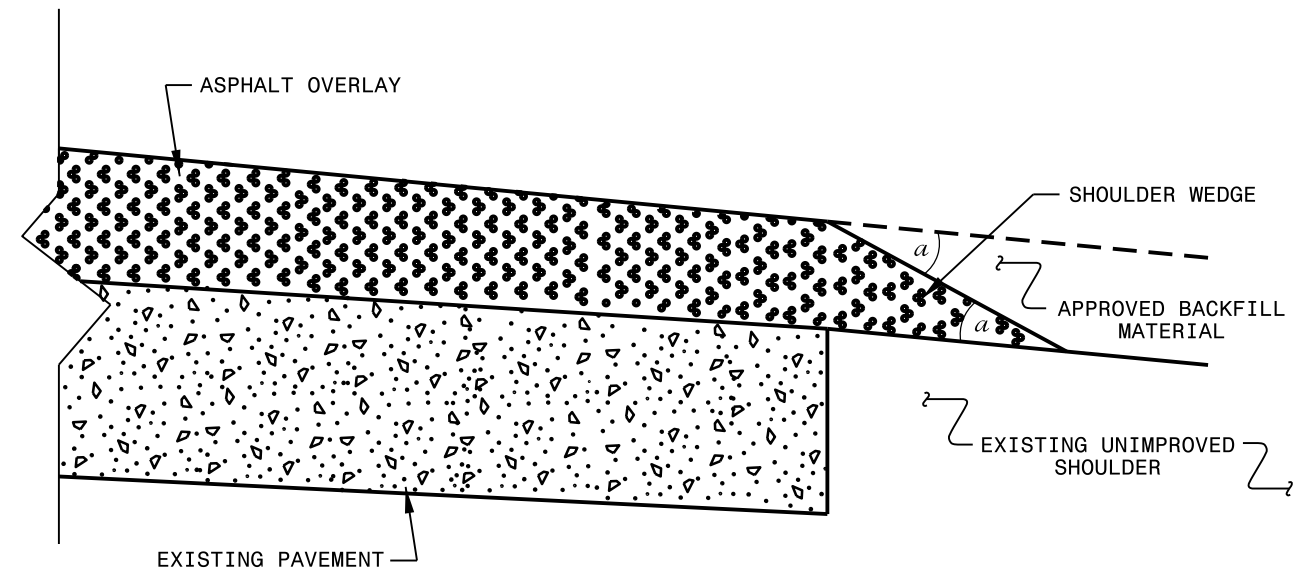
ITEM NO	DESCRIPTION
C1	PROP. APPROX. 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A AT AN AVERAGE RATE OF 137.5 LBS.PER.SQ.YD
C2	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, (LEVELING) TYPE SF9.5A AT AN AVERAGE RATE OF 100 LBS. PER.SQ.YD LOCATIONS AS DIRECTED BY PROJECT ENGINEER
D1	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.OB, AT A AVERAGE RATE OF 342 LBS PER SQ. YD.
V1	MILLED ASPHALT PAVEMENT 3" AT AREAS OF DISTRESS LOCATIONS AND WIDTH AS DIRECTED BY PROJECT ENGINEER
T	SHOULDER RECONSTRUCTION
T1	SHOULDER RECONSTRUCTION AT LOCATION'S WHERE DROP OFF EXCEEDS 1 1/2" AS DIRECTED BY PROJECT ENGINEER
U	EXISTING ASPHALT
X	ULTRA THIN BOND WEAR COURSE
<p>*NOTE*</p> <p>* ALL PAVED BULBOUTS AND PARKING AREAS WILL BE RESURFACED</p> <p>*LEVELING AT SPOT LOCATIONS AS DIRECTED BY PROJECT ENGINEER</p>	

NOTES:

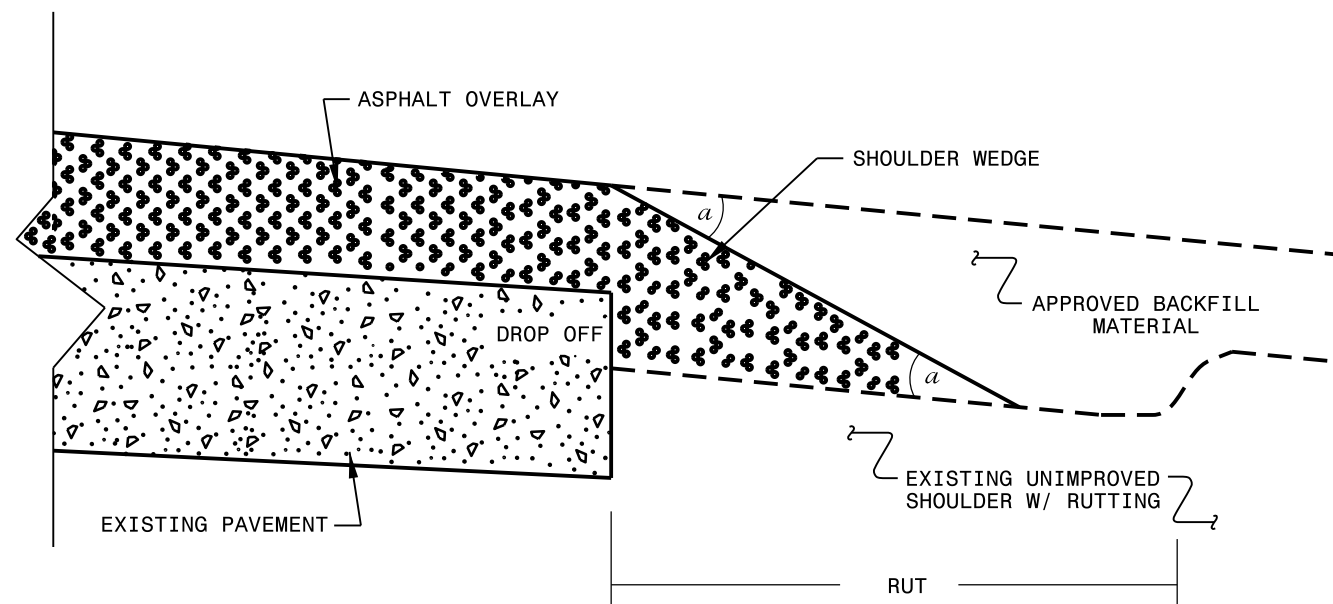
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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°

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: 2/2/16		
CHECKED BY:	DATE:		
FILE SPEC.: szusr/details/stand/shoulderwedgedetail.dgn			

31-MAR-2016 10:10
 S:\Contracts\Resurfacing Projects\Shoulder Wedge Details\Revised Shoulder Wedge Detail.dgn
 \$\$\$USERNAME\$\$\$

PROJECT NO.	SHEET NO.	TOTAL NO.
R-5770	5	

SUMMARY OF QUANTITIES(ALT.1)

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	SHOULDER RECONSTRUCTION SMI	3" MILLING SY	INTERMEDIATE COURSE, I19.0B TONS	SURFACE COURSE, SF9.5A TONS	SURFACE COURSE, (LEVELING), SF9.5A TN	ASPHALT BINDER FOR PLANT MIX TONS
44671.3.1	Graham	1	NC 143 CHEROHALA SKYWAY	FROM TN LINE TO SR-1159 AT SANTEETLAH GAP	1	2	2WU	NO	YES	18.36	24	36.72	7,500	1,465	19,635	2,145	1,515
TOTAL FOR MAP NO. 1										18.36		36.72	7,500	1,465	19,635	2,145	1,515
TOTAL FOR PROJ NO. 44671.3.1										18.36		36.72	7,500	1,465	19,635	2,145	1,515
GRAND TOTAL										18.36		36.72	7,500	1,465	19,635	2,145	1,515

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4710000000-E	4810000000-E		4890000000-E		4905000000-N
										WORK ZONE ADVANCE/GENERAL WARNING SIGNS SF	TEMPORARY TRAFFIC CONTROL LS	24" X 120 M WHITE THERMO LF	4" YELLOW PAINT LF	4" WHITE PAINT LF	50 MIL 4" WHITE THERMO LF	50 MIL 4" YELLOW THERMO LF	SNOW PLOWABLE MARKERS EA
44671.3.1	Graham	1	NC 143 CHEROHALA SKYWAY	FROM TN LINE TO SR-1159 AT SANTEETLAH GAP	1	2	2WU	18.36	24	2,262.0	1	100	194,000	2,880	194,000	194,000	1,860
TOTAL FOR MAP NO. 1										2,262	1	100	194,000	2,880	194,000	194,000	1,860
TOTAL FOR PROJ NO. 44671.3.1										2,262	1	100	194,000	2,880	194,000	194,000	1,860
GRAND TOTAL										2,262	1	100	194,000	2,880	194,000	194,000	1,860

PROJECT NO.	SHEET NO.	TOTAL NO.
R-5770	6	

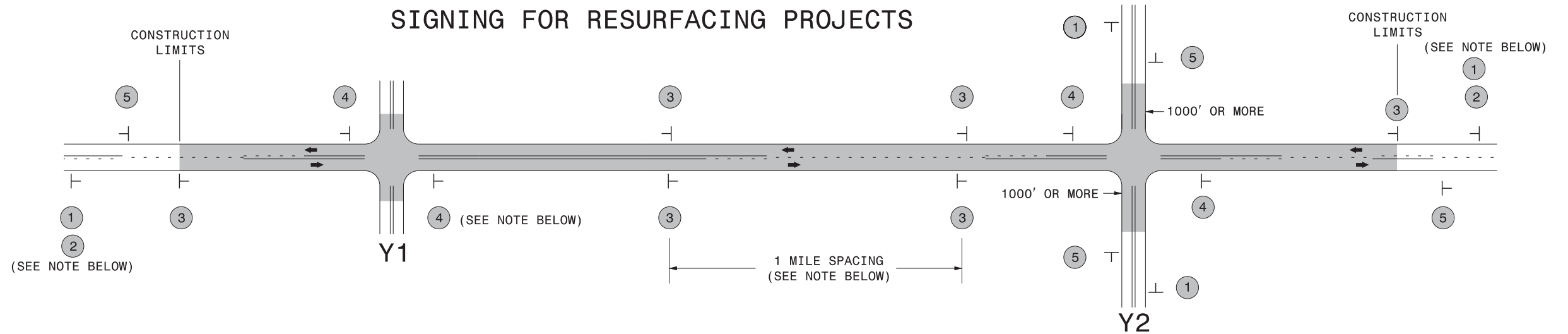
SUMMARY OF QUANTITIES(ALT.2)

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	SHOULDER RECONSTRUCTION SMI	3" MILLING SY	INTERMEDIATE COURSE, I19.0B TONS	SURFACE COURSE, (LEVELING), SF9.5A TN	ASPHALT BINDER FOR PLANT MIX TONS	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX TONS	ULTRA-THIN BONDED WEARING COURSE TON
44671.3.1	Graham	1	NC 143 CEROHALA SKYWAY	FROM TN LINE TO SR-1159 AT SANTEETLAH GAP	1	2	2WU	NO	YES	18.36	24	6.00	7,500	1,465	2,145	221	828	15,924
TOTAL FOR MAP NO. 1										18.36		6.00	7,500	1,465	2,145	221	828	15,924
TOTAL FOR PROJ NO. 44671.3.1										18.36		6.00	7,500	1,465	2,145	221	828	15,924
GRAND TOTAL										18.36		6.00	7,500	1,465	2,145	221	828	15,924

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4710000000-E	4810000000-E		4890000000-E		4905000000-N
										WORK ZONE ADVANCE/GENERAL WARNING SIGNS SF	TEMPORARY TRAFFIC CONTROL LS	24" X 120 M WHITE THERMO LF	4" YELLOW PAINT LF	4" WHITE PAINT LF	50 MIL 4" WHITE THERMO LF	50 MIL 4" YELLOW THERMO LF	SNOW PLOWABLE MARKERS EA
44671.3.1	Graham	1	NC 143 CEROHALA SKYWAY	FROM TN LINE TO SR-1159 AT SANTEETLAH GAP	1	2	2WU	18.36	24	2,262.0	1	100	194,000	2,880	194,000	194,000	1,860
TOTAL FOR MAP NO. 1							18.36		2,262	1	100	194,000	2,880	194,000	194,000	1,860	
TOTAL FOR PROJ NO. 44671.3.1							18.36		2,262	1	100	194,000	2,880	194,000	194,000	1,860	
GRAND TOTAL							18.36		2,262	1	100	194,000	2,880	194,000	194,000	1,860	

SIGNING FOR RESURFACING PROJECTS



LEGEND	
	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

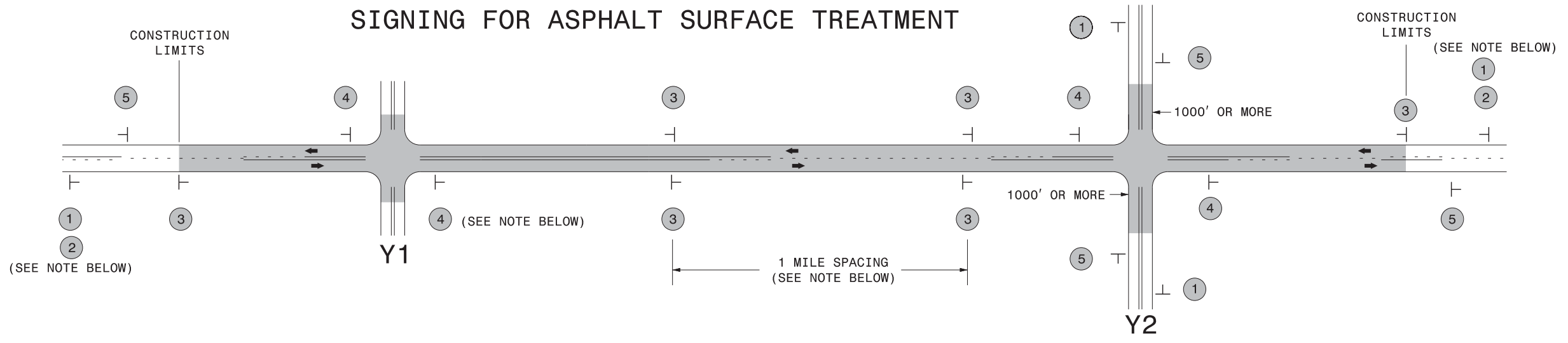
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION		
1 2	 W20-1 48" X 48" W7-3aP 24" X 18"	<p style="text-align: center;">NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p style="text-align: center;">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> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> W20-1 48" X 48" </div> <div style="text-align: center;"> W20-7 A 48" X 48" </div> </div> <p style="text-align: center;">PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
3	 SP 13107 48" X 48"	<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> <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	 SP 13106 48" X 48"	<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	 G20-2 A 48" X 24"	<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>

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**RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS**

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 2	 W20-1 48" X 48" W7-3aP 24" X 18"	<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>
3	 W8-7 48" X 48" SP 48" X 48"	<p>ALTERNATE THE FOLLOWING TWO SIGNS: 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	 SP 13106 48" X 48"	<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	 G20-2 A 48" X 24"	<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.

W20-1
48" X 48"

W20-7 A
48" X 48"

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

**ADVANCE WARNING SIGNS
FOR
ASPHALT SURFACE TREATMENTS
2 LANE ROADWAYS**

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