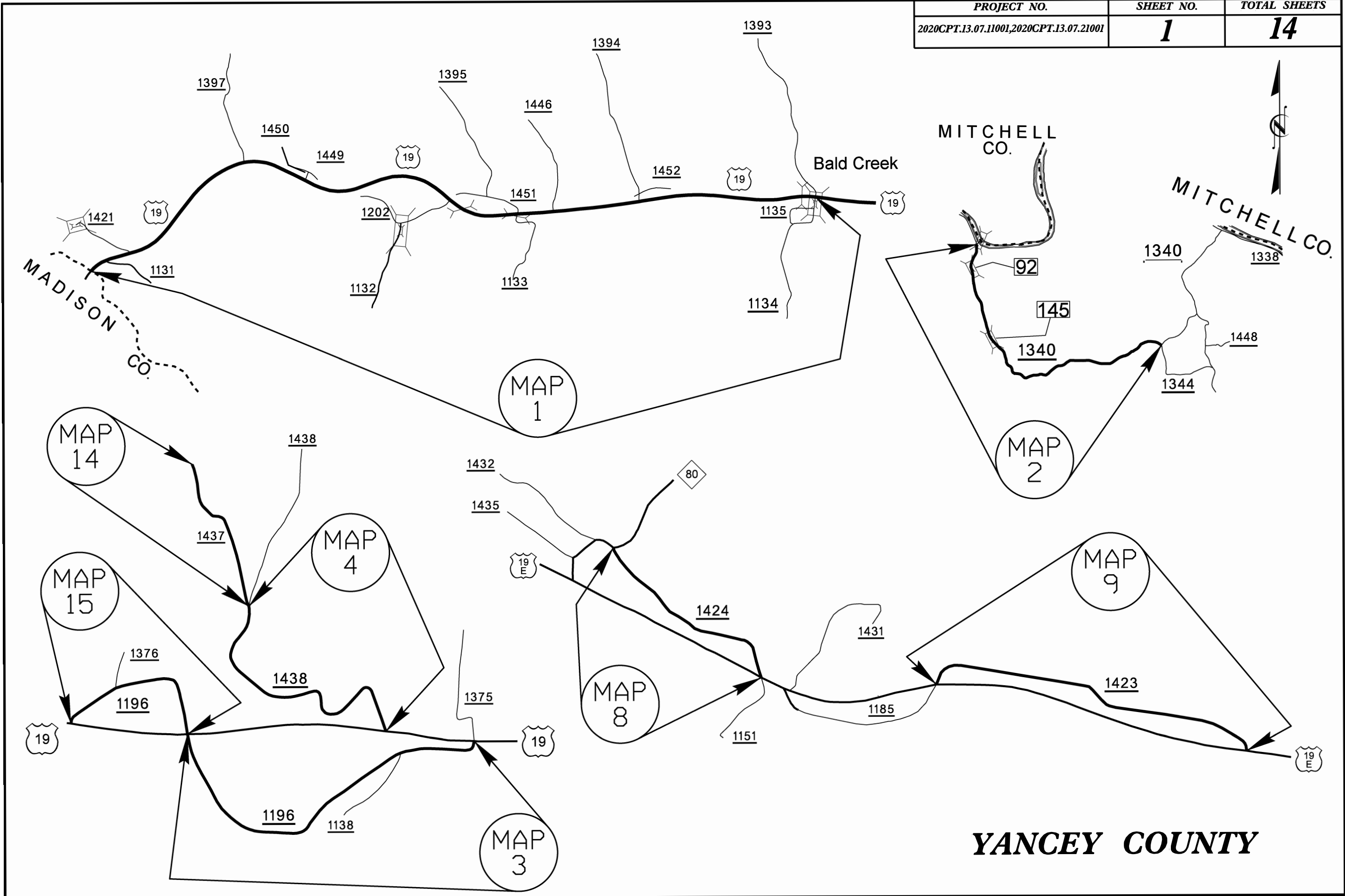
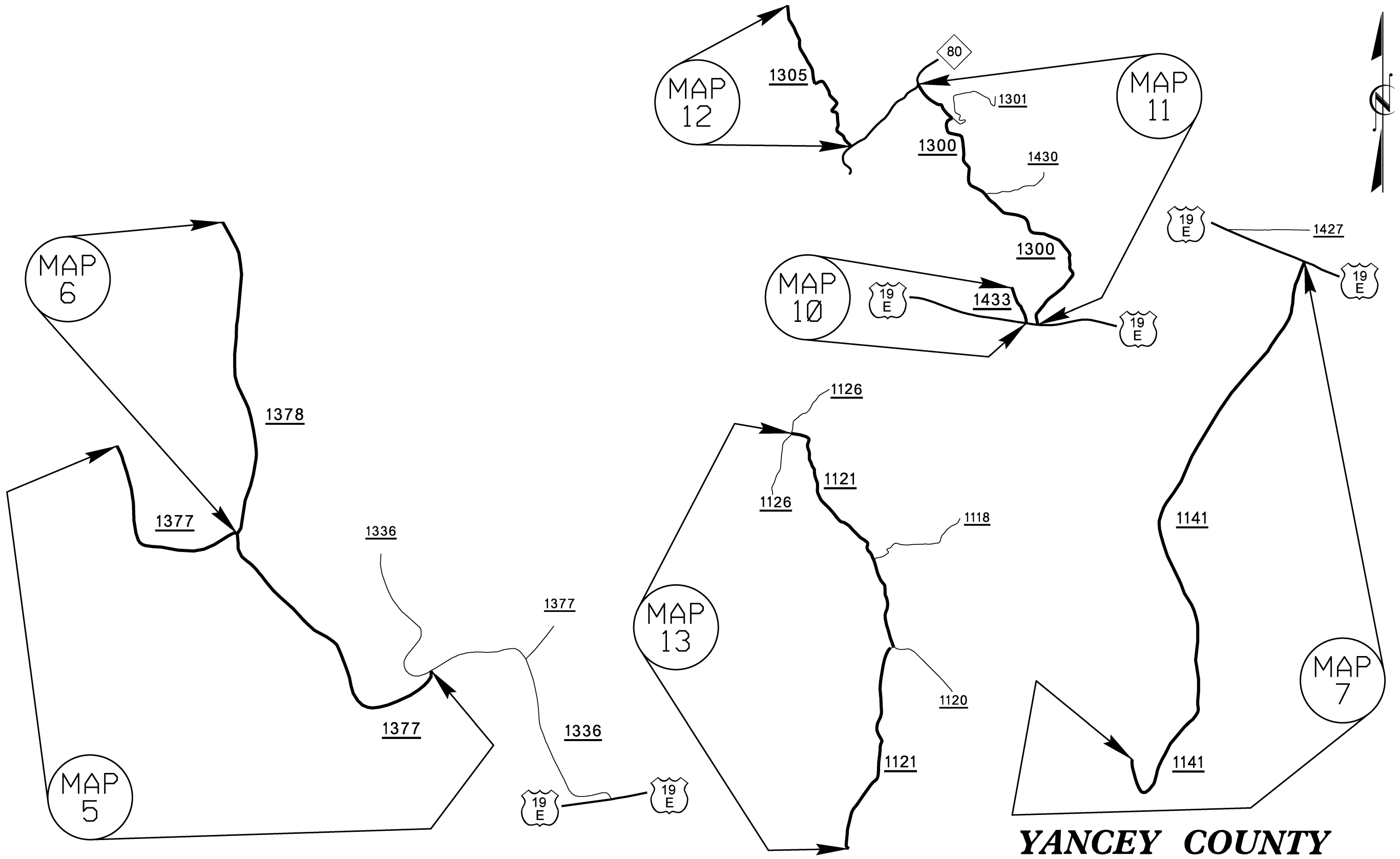


PROJECT NO.	SHEET NO.	TOTAL SHEETS
2020CPT.13.07.11001,2020CPT.13.07.21001	<b>1</b>	<b>14</b>

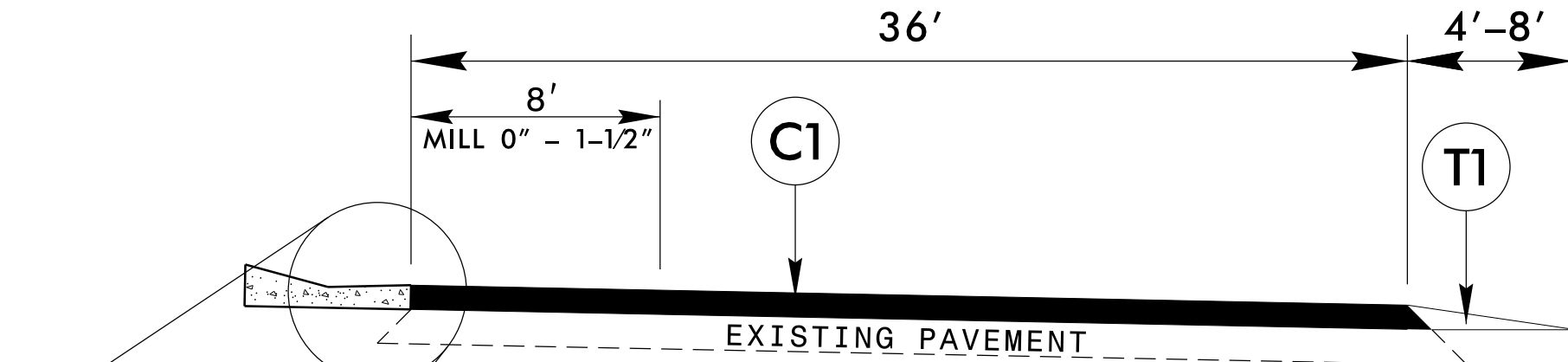


**YANCEY COUNTY**

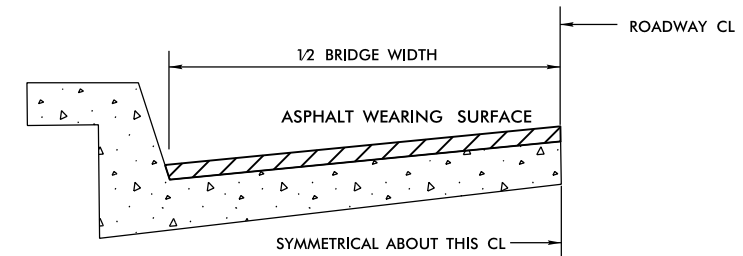
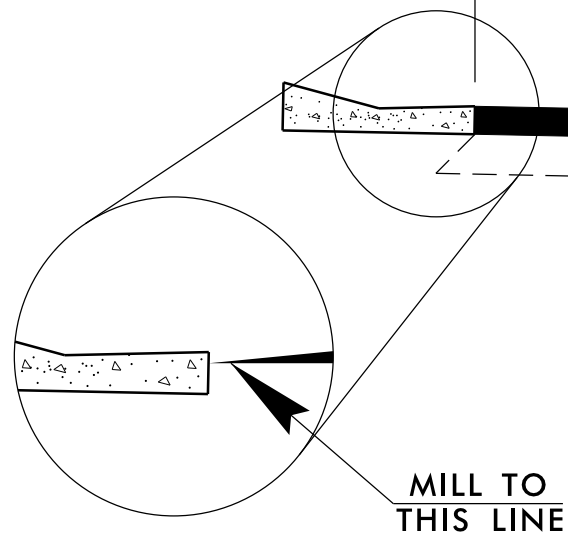
PROJECT NO.	SHEET NO.	TOTAL SHEETS
2020CPT.13.07.11001, 2020CPT.13.07.21001	2	14



**YANCEY COUNTY**



**TYPICAL SECTION #1**  
(EASTBOUND OR WESTBOUND)



**BRIDGE HALF TYPICAL SECTION**

FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN.

THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. THE MINIMUM THICKNESS SHOULD DEPEND ON PAVEMENT TYPE AS FOLLOWS: S4.75A 1/2", S9.5B 1", S9.5C,D 1.5" - 2". ULTRA-THIN HOT MIX ASPHALT - TYPE A 3/4". ULTRA-THIN HOT MIX ASPHALT - TYPE B 5/8". ULTRA-THIN HOT MIX ASPHALT - TYPE C 1/2". THE MAXIMUM THICKNESS SHOULD DEPEND ON PAVEMENT TYPE AS FOLLOWS: S4.75A 1", S9.5B 1.5", S9.5C,D 2". ULTRA-THIN HOT MIX ASPHALT - TYPE A 3/4", ULTRA-THIN HOT MIX ASPHALT - TYPE B 5/8", ULTRA-THIN HOT MIX ASPHALT - TYPE C 1/2".

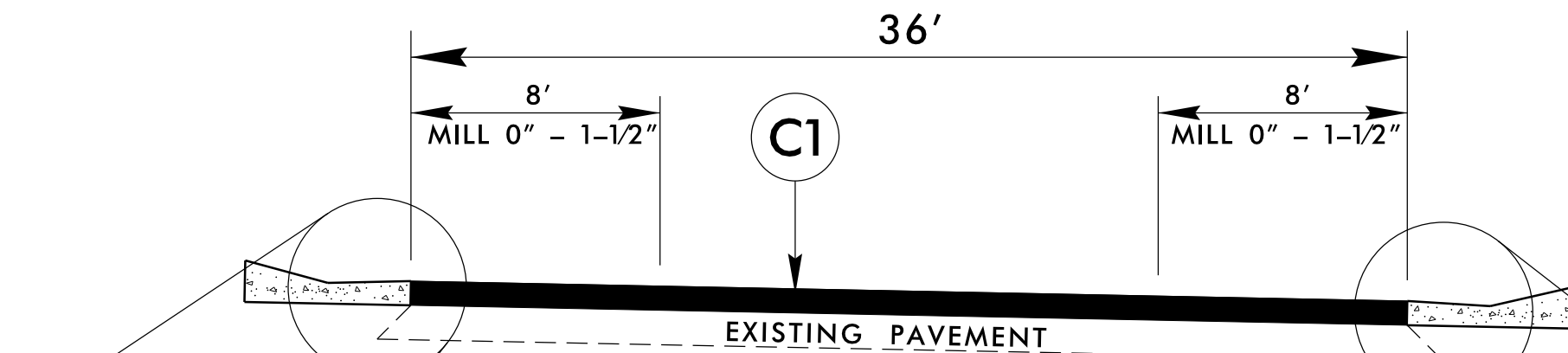
**NOTES**

ALL UNPAVED ROADS TO BE RESURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT. ALL PAVED S. R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER.

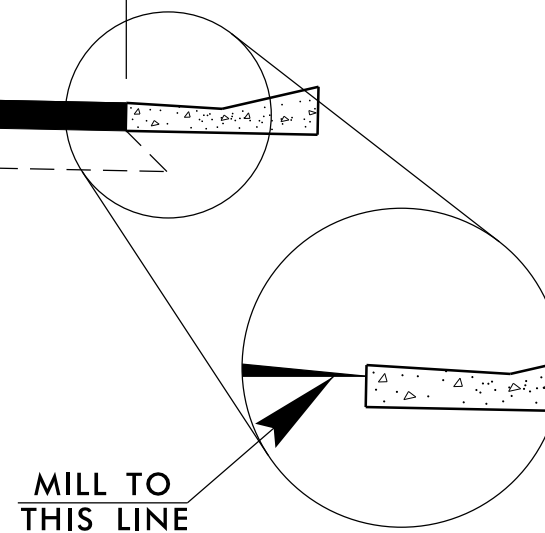
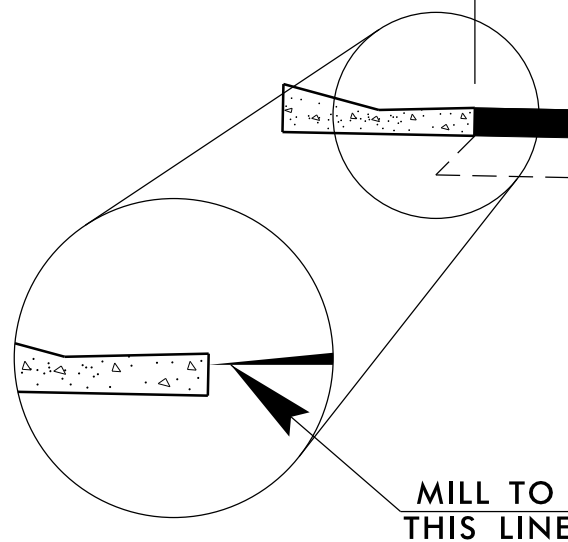
EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.

SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS UNLESS OTHERWISE INDICATED.

BRIDGES ARE TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.

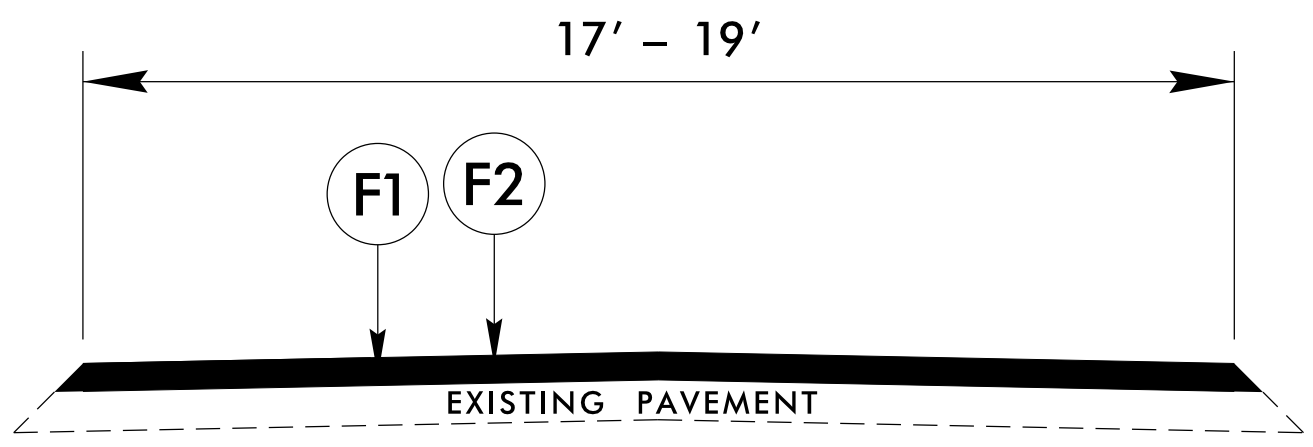


**TYPICAL SECTION #2**  
(EASTBOUND OR WESTBOUND)

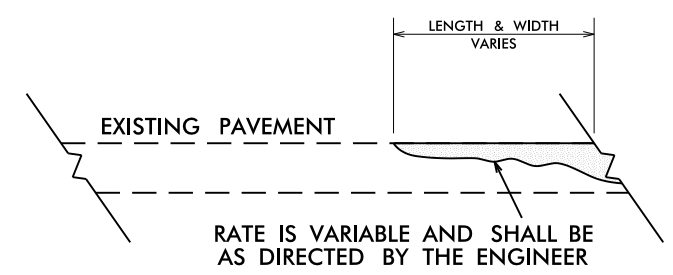
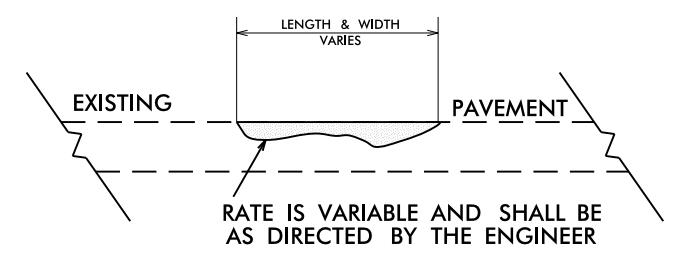


**PAVEMENT SCHEDULE**

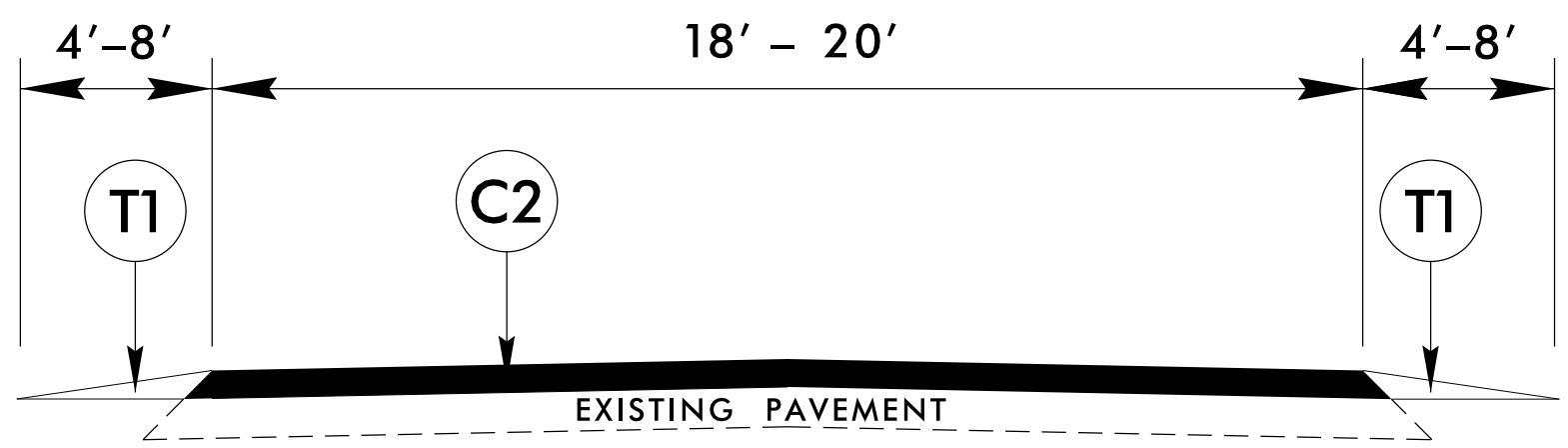
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
C2	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
F1	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
F2	ASPHALT SURFACE TREATMENT, FOG SEAL
T1	SHOULDER RECONSTRUCTION
V1	INCIDENTAL MILLING
V2	MILLING ASPHALT PAVEMENT, 1-1/2" DEPTH
V3	MILLING ASPHALT PAVEMENT, 0" TO 1-1/2"
Y1	LATEX MODIFIED MICRO-SURFACING, TYPE III MODIFIED



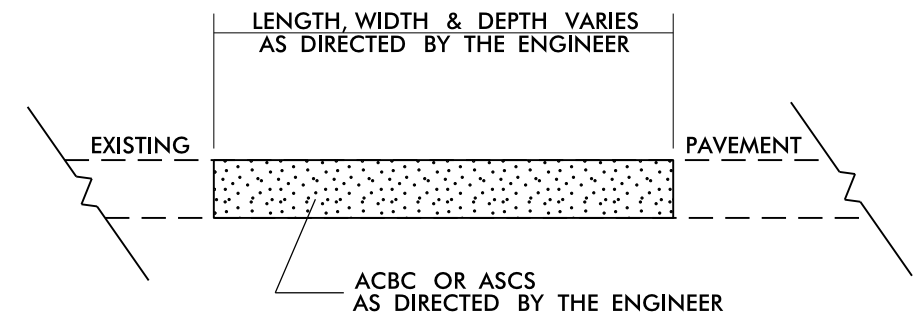
**TYPICAL SECTION #3**



**DETAIL SHOWING METHOD OF WEDGING**



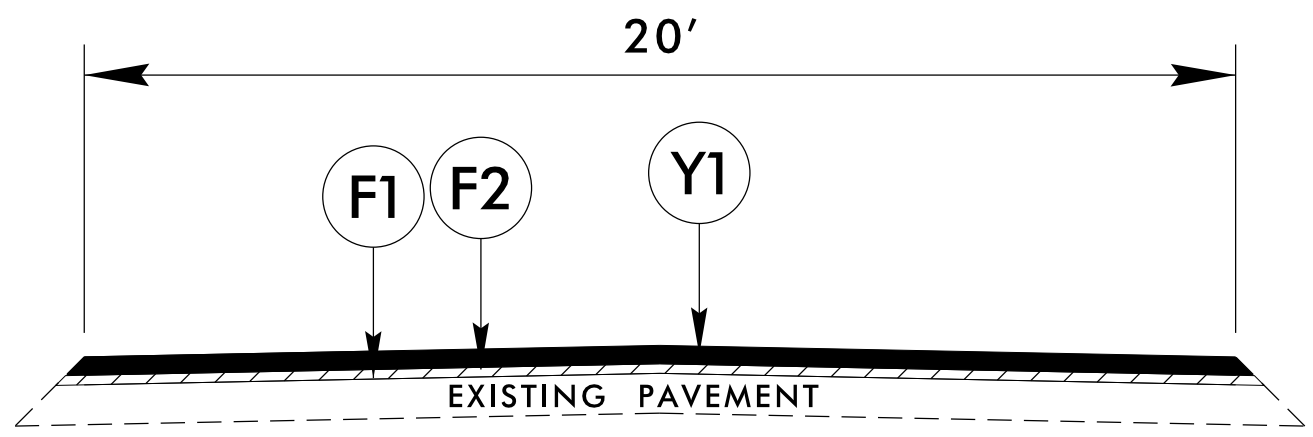
**TYPICAL SECTION #4**



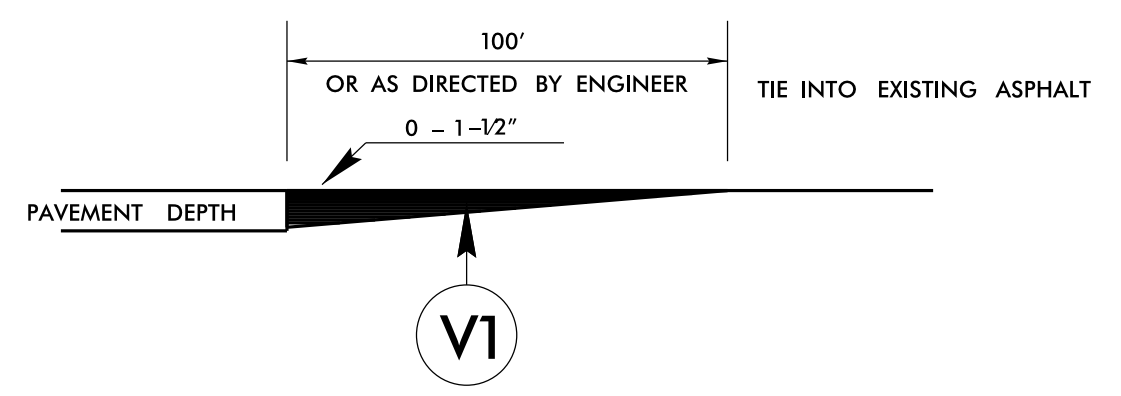
**PATCHING EXISTING PAVEMENT**

PAVEMENT SCHEDULE	
C2	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
F1	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
F2	ASPHALT SURFACE TREATMENT, FOG SEAL
T1	SHOULDER RECONSTRUCTION

6/2/20 01-001-2908 1413 01-001-Resurfacing\2020\_Yancey-Resurfacing-TYP.dgn 01-001-Resurfacing\2020\_Yancey-Resurfacing-TYP.dgn



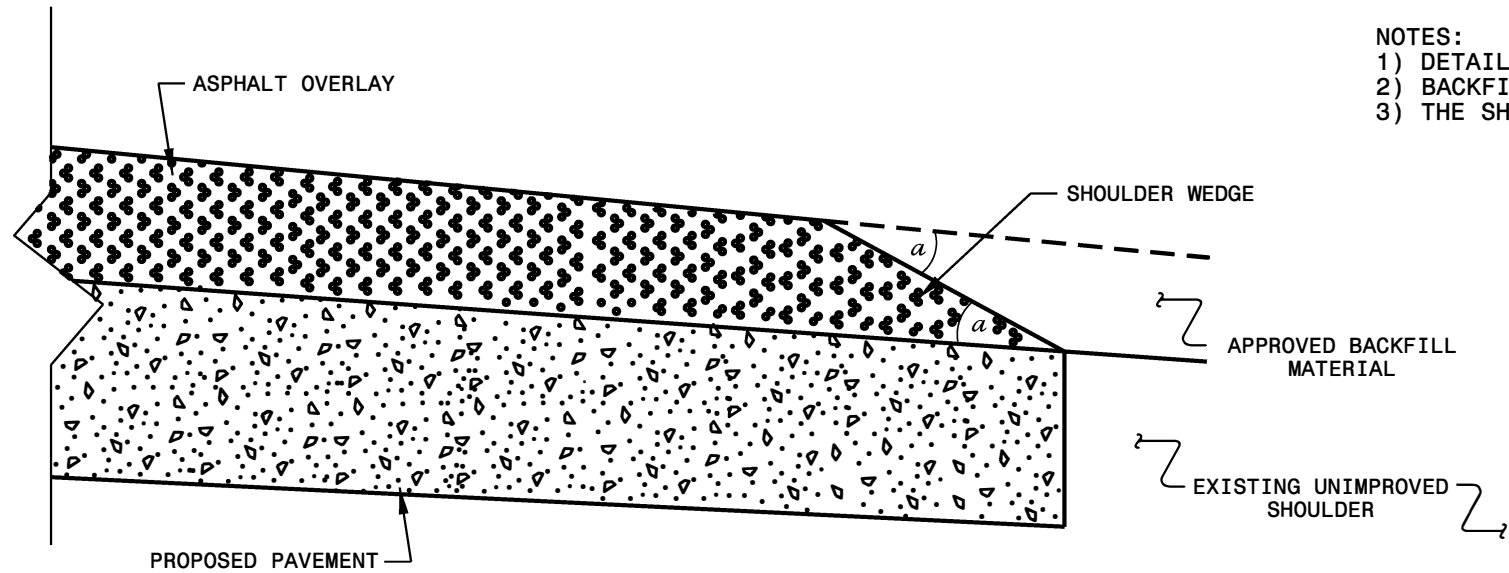
### TYPICAL SECTION #5



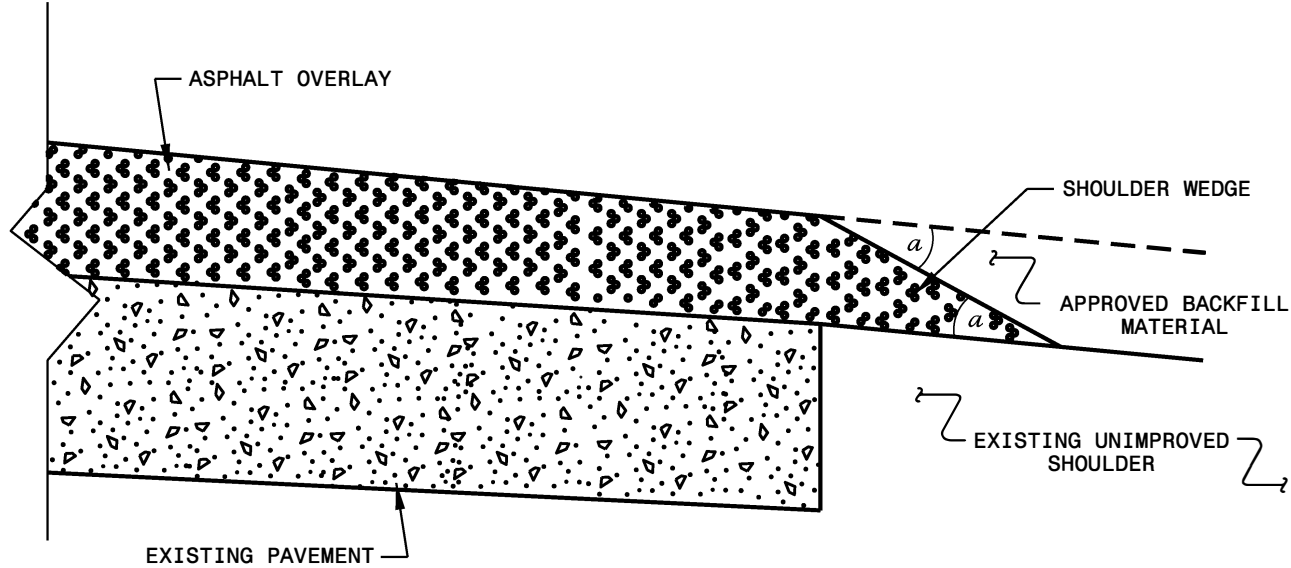
**DETAIL TO TIE INTO EXIST PAVEMENT**  
 THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT HE WILL BE REQUIRED TO MILL THE EXISTING ASPHALT PAVEMENT TO ENSURE A PROPER TIE-IN WITH THE EXISTING SURFACE AT THE BEGINNING, END AND Y LINES OF EACH MAP TO BE RESURFACED WITH ASPHALT CONC SURFACE COURSE, TYPE S9.5C. THIS WILL BE PAID FOR AS INCIDENTAL MILLING.

PAVEMENT SCHEDULE	
F1	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
F2	ASPHALT SURFACE TREATMENT, FOG SEAL
V1	INCIDENTAL MILLING
Y1	LATEX MODIFIED MICRO-SURFACING, TYPE III MODIFIED

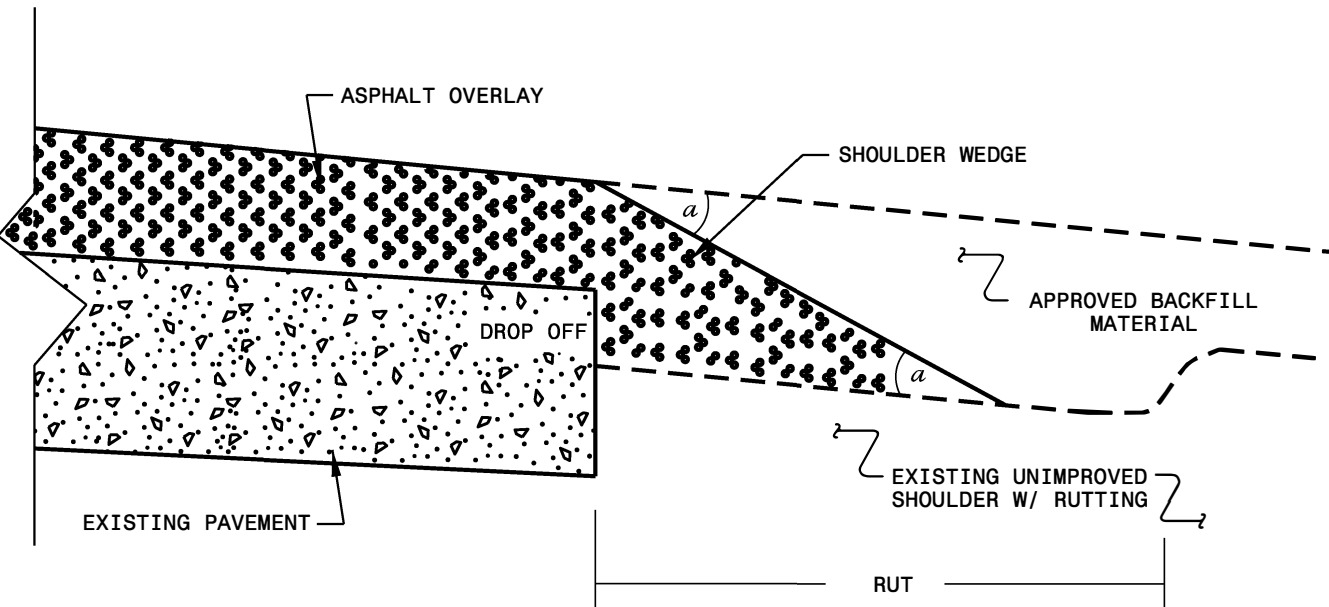
- NOTES:  
 1) DETAIL DOES NOT APPLY TO OGAFD AND ULTRA-THIN BONDED WEARING COURSE.  
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.  
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



**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°

<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: 10/16/12
CHECKED BY:	DATE:
FILE SPEC: s:\usr\dot_all\stand\shoulderwed_detail.dwg	

12/18/12 10:00 AM T.SPELL

PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.13.07.11001	7	14
2020CPT.13.07.21001		

**SUMMARY OF QUANTITIES**

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	1220000000-E	1245000000-E	1260000000-E	1308000000-E	1330000000-E	1519000000-E	1523000000-E	1575000000-E	1704000000-E	1803500000-E	1820000000-E	1838000000-E	1838500000-N	1891000000-E			
												INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	MILLING ASPHALT PAVEMENT, 0" TO 1 1/2" DEPTH	INCIDENTAL MILLING	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, DOUBLE SEAL	ASPHALT SURFACE TREATMENT, FOG SEAL	EMULSION FOR ASPHALT SURFACE TREATMENT	VACUUM TRUCK	LATEX MODIFIED MICRO-SURFACING, TYPE III			
											MI	FT	TON	SMI	TON	SY	SY	TON	TON	TON	TON	SY	SY	GAL	WK	SY		
2020CPT.13.07.11001	Yancey	1	US 19	FROM MADISON COUNTY LINE TO SR 1134 (PLEASANT VALLEY) (MP 0.00 - 3.12)	1,2	2	MD	NO	NO	3.12	72	156	4.50	585	45,000	6,800		12,198	732	950								
<b>TOTAL FOR PROJ NO. 2020CPT.13.07.11001</b>											<b>3.12</b>		<b>156</b>	<b>4.50</b>	<b>585</b>	<b>45,000</b>	<b>6,800</b>		<b>12,198</b>	<b>732</b>	<b>950</b>							
2020CPT.13.07.21001	Yancey	2	SR 1340	FROM PVT JOINT AT MITCHELL COUNTY LINE TO SR 1344 (FAIRVIEW CEMETERY RD) (MP 1.15-MP 2.29)	3	2	2WU	NO	NO	2.29	18									920	24,182	24,182	13,300					
2020CPT.13.07.21001	Yancey	3	SR 1196	FROM US 19 PVT JOINT TO US 19 (MP0.00 - MP 0.78)	4	2	2WU	NO	NO	0.78	20	39	1.56	203		836			56	150								
2020CPT.13.07.21001	Yancey	4	SR 1438	FROM US 19 PVT JOINT TO AST JOINT AT INTERSECTION (MP 0.00 - MP 0.61)	4	2	2WU	NO	NO	0.61	19	31	1.22	159		621			42	650								
2020CPT.13.07.21001	Yancey	5	SR 1377	FROM SR 1336 (JACKS CREEK) TO EOM (MP 0.00 - 1.00)	3	2	2WU	NO	NO	1	18									250	10,560	10,560	5,808					
2020CPT.13.07.21001	Yancey	6	SR 1378	FROM SR 1377 ( MCKINNEY RD) TO EOP (MP 0.00 - MP 0.64)	3	2	2WU	NO	NO	0.64	17									75	6,383	6,383	3,511					
2020CPT.13.07.21001	Yancey	7	SR 1141	FROM JUST PAST CONCRETE MEDIAN TO EOP (MP 0.00 - MP 1.06)	5	2	2WU	NO	NO	1.06	20									75	12,437	12,437	6,841		12,437			
2020CPT.13.07.21001	Yancey	8	SR 1424	FROM NC 80 TO US 19 PVT JOINT (MP 0.00 - MP 0.46)	3	2	2WU	NO	NO	0.46	18									180	4,858	4,858	2,672	4.00				
2020CPT.13.07.21001	Yancey	9	SR 1423	FROM US 19 TO US 19 PVT JOINT (MP 0.00 - MP 0.75)	3	2	2WU	NO	NO	0.75	19									125	8,360	8,360	4,598					
2020CPT.13.07.21001	Yancey	10	SR 1433	FROM US 19 PVT JOINT TO EOM (MP 0.00 - MP 0.18)	3	2	2WU	NO	NO	0.18	18									60	1,901	1,901	1,045					
2020CPT.13.07.21001	Yancey	11	SR 1300	FROM US 19 PVT JOINT TO NC 80N (MP 0.00 - MP 2.54)	4	2	2WU	NO	NO	2.54	19	127	5.08	660		2,586			173	475								
2020CPT.13.07.21001	Yancey	12	SR 1305	FROM NC 80N TO EOP (MP 0.00 - MP 1.0)	3	2	2WU	NO	NO	1	18									150	10,560	10,560	5,808					
2020CPT.13.07.21001	Yancey	13	SR 1121	FROM SR 1126 (HORTON HILL) TO EOP (MP 0.00 - MP 3.54)	4	2	2WU	NO	NO	3.54	18	177	7.08	920		3,416			229	850								
2020CPT.13.07.21001	Yancey	14	SR 1437	FROM SR 1438 (CHARLIE BROWN) TO EOP (MP 0.00 - MP 0.37)	4	2	2WU	NO	NO	0.37	19	19	0.74	96		377			25	150								
2020CPT.13.07.21001	Yancey	15	SR 1196	FROM US 19 JOINT TO US 19 JOINT (MP 0.00-MP 0.30)	4	2	2WU	NO	NO	0.3	20	15	0.60	78		321			22	200								
<b>TOTAL FOR PROJ NO. 2020CPT.13.07.21001</b>											<b>15.52</b>		<b>408</b>	<b>16.28</b>	<b>2,116</b>		<b>8,157</b>		<b>8,157</b>	<b>547</b>	<b>4,310</b>	<b>79,241</b>	<b>79,241</b>	<b>43,583</b>	<b>4.00</b>	<b>12,437</b>		
<b>GRAND TOTAL</b>											<b>18.64</b>		<b>564</b>	<b>20.78</b>	<b>2,701</b>		<b>45,000</b>		<b>6,800</b>	<b>8,157</b>	<b>12,198</b>	<b>1,279</b>	<b>5,260</b>	<b>79,241</b>	<b>79,241</b>	<b>43,583</b>	<b>4.00</b>	<b>12,437</b>

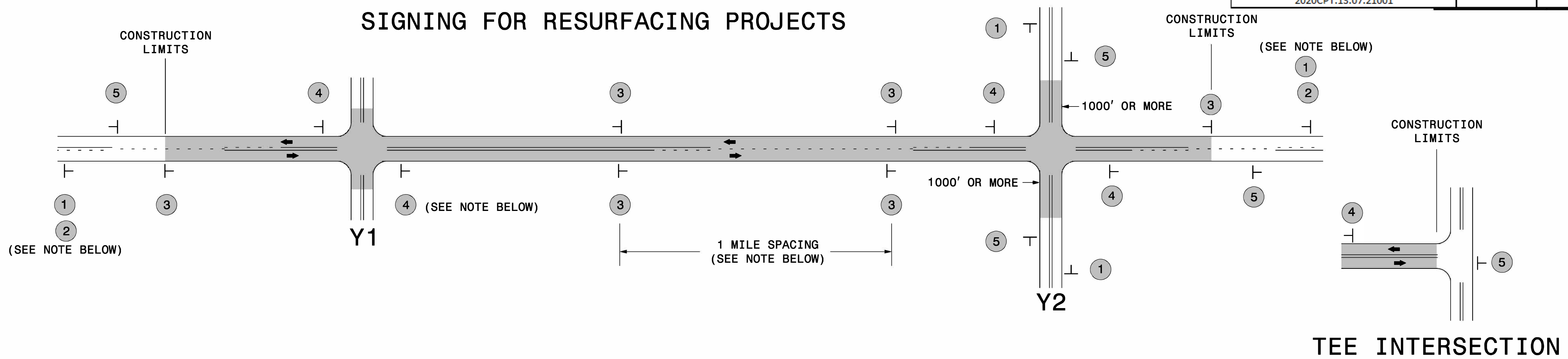
PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.13.07.11001	8	14
2020CPT.13.07.21001		

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	441300000-E	445700000-N	471000000-E	472100000-E	472500000-E				481000000-E		484701000-E	490500000-N		
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS) SCHOOL	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) LT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) RT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) STR ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) STR & RT ARROW	PAINT PAVEMENT MARKING LINES (4") WHITE	PAINT PAVEMENT MARKING LINES (4") YELLOW	POLYUREA PAVEMENT MARKING LINES WHITE (4", 20 MILS) (HIGHLY REFLECTIVE MEDIA)	SNOWPLOWABLE PAVEMENT MARKERS		
									MI	FT	SF	LS	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	
2020CPT.13.07.11001	Yancey	1	US 19	FROM MADISON COUNTY LINE TO SR 1134 (PLEASANT VALLEY) (MP 0.00 - 3.12)	1	2	MD	3.12	72	350	*	270	12	30	8	38	2	123,374		39,543	375		
<b>TOTAL FOR PROJ NO. 2020CPT.13.07.11001</b>									<b>3.12</b>		<b>350</b>	<b>*</b>	<b>270</b>	<b>12</b>	<b>30</b>	<b>8</b>	<b>38</b>	<b>2</b>	<b>123,374</b>		<b>39,543</b>	<b>375</b>	
														<b>78</b>		<b>123,374</b>							
2020CPT.13.07.21001	Yancey	2	SR 1340	FROM PVT JOINT AT MITCHELL COUNTY LINE TO SR 1344 (FAIRVIEW CEMETERY RD) (MP 1.15-MP 3.44)	3	2	2WU	2.29	18	1,744	*							48,365	48,365				
2020CPT.13.07.21001	Yancey	3	SR 1196	FROM US 19 PVT JOINT TO US 19 (MP 0.00 - MP 0.78)	4	2	2WU	0.78	20											16,474	16,474		
2020CPT.13.07.21001	Yancey	4	SR 1438	FROM US 19 PVT JOINT TO AST JOINT AT INTERSECTION (MP 0.00 - MP 0.61)	4	2	2WU	0.61	19											12,883	12,883		
2020CPT.13.07.21001	Yancey	5	SR 1377	FROM SR 1336 (JACKS CREEK) TO EOM (MP 0.00 - 1.00)	3	2	2WU	1	18											21,120	21,120		
2020CPT.13.07.21001	Yancey	6	SR 1378	FROM SR 1377 ( MCKINNEY RD) TO EOP (MP 0.00 - MP 0.64)	3	2	2WU	0.64	17														
2020CPT.13.07.21001	Yancey	7	SR 1141	FROM JUST PAST CONCRETE MEDIAN TO EOP (MP 0.00 - MP 1.06)	5	2	2WU	1.06	20											22,387	22,387		
2020CPT.13.07.21001	Yancey	8	SR 1424	FROM NC 80 TO US 19 PVT JOINT (MP 0.00 - MP 0.46)	3	2	2WU	0.46	18											9,715	9,715		
2020CPT.13.07.21001	Yancey	9	SR 1423	FROM US 19 TO US 19 PVT JOINT (MP 0.00 - MP 0.75)	3	2	2WU	0.75	19											15,840	15,840		
2020CPT.13.07.21001	Yancey	10	SR 1433	FROM US 19 PVT JOINT TO EOM (MP 0.00 - MP 0.18)	3	2	2WU	0.18	18														
2020CPT.13.07.21001	Yancey	11	SR 1300	FROM US 19 PVT JOINT TO NC 80N (MP 0.00 - MP 2.54)	4	2	2WU	2.54	19											53,645	53,645		
2020CPT.13.07.21001	Yancey	12	SR 1305	FROM NC 80N TO EOP (MP 0.00 - MP 1.0)	3	2	2WU	1	18											21,120	21,120		
2020CPT.13.07.21001	Yancey	13	SR 1121	FROM SR 1126 (HORTON HILL) TO EOP (MP 0.00 - MP 3.54)	4	2	2WU	3.54	18											74,765	74,765		
2020CPT.13.07.21001	Yancey	14	SR 1437	FROM SR 1438 (CHARLIE BROWN) TO EOP (MP 0.00 - MP 0.37)	4	2	2WU	0.37	19											7,814	7,814		
2020CPT.13.07.21001	Yancey	15	SR 1196	FROM US 19 JOINT TO US 19 JOINT (MP 0.00 - MP 0.30)	4	2	2WU	0.3	20											6,336	6,336		
<b>TOTAL FOR PROJ NO. 2020CPT.13.07.21001</b>									<b>15.52</b>				<b>1,744</b>	<b>*</b>						<b>310,464</b>	<b>310,464</b>		
														<b>620,928</b>									
<b>GRAND TOTAL</b>									<b>18.64</b>		<b>2,094</b>	<b>1</b>	<b>270</b>	<b>12</b>	<b>30</b>	<b>8</b>	<b>38</b>	<b>2</b>	<b>433,838</b>	<b>310,464</b>	<b>39,543</b>	<b>375</b>	
														<b>78</b>		<b>744,302</b>							



# SIGNING FOR RESURFACING PROJECTS



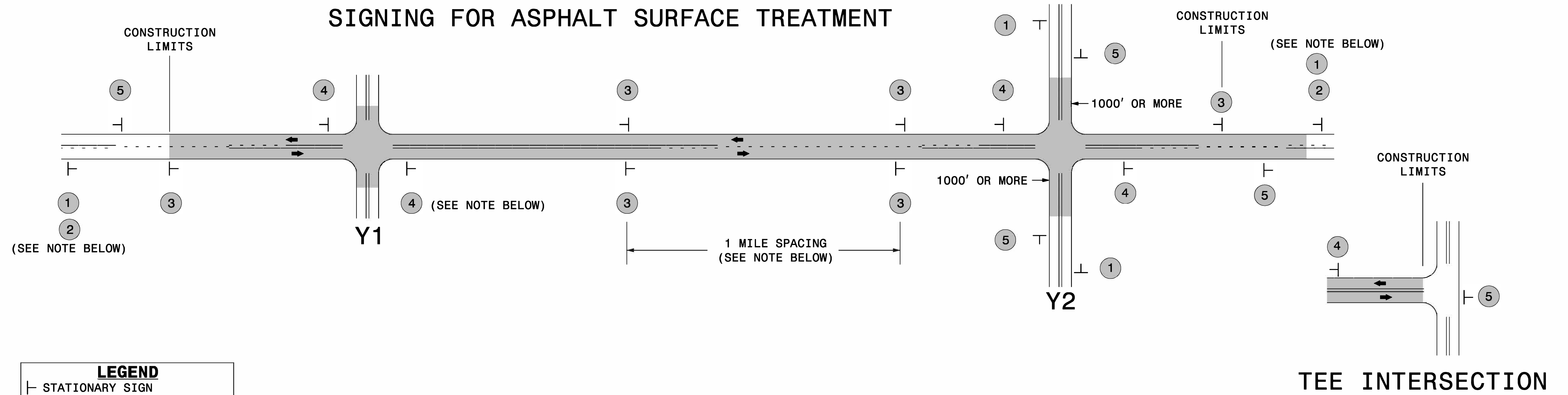
## MAINLINE (-L-) SIGNING

## -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>	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> <li>1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE</li> <li>2) SUBDIVISION ROADS</li> <li>3) DEAD END ROADS</li> </ol> <p>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;"> <div style="text-align: center;">   <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;">   <small>W20-7 A 48" X 48"</small> </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	2	 <small>W7-3aP 24" X 18"</small>		
	3	 <small>SP 13107 48" X 48"</small>	<p>- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.</p> <p>- AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART 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.</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>- FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.</p>	
	5	 <small>G20-2 A 48" X 24"</small>	<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.</p>	

**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

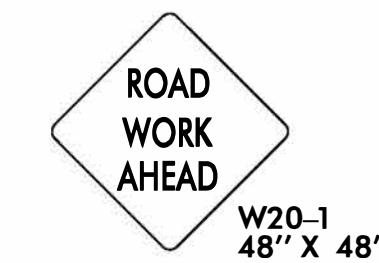
### -Y- LINE SIGNING

<b>SIGNING NOTES AND PLACEMENT PER DIRECTION</b>	1	 <small>W20-1 48" X 48"</small>	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.
	2	 <small>W7-3aP 24" X 18"</small>	#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)
	3	 <small>W8-7 48" X 48"</small>	- ALTERNATE THE FOLLOWING TWO SIGNS: - STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT". - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.
		 <small>SP 48" X 48"</small>	
	4	 <small>SP 13106 48" X 48"</small>	- 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. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.
5	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	

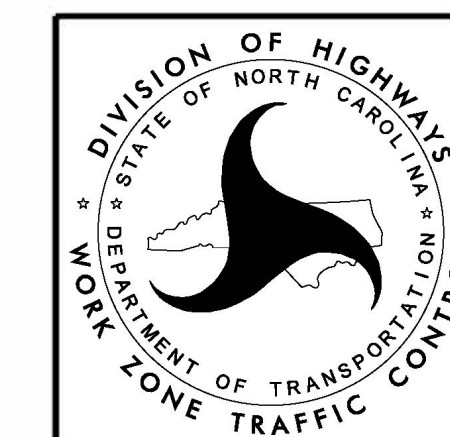
**NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:**

- 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.

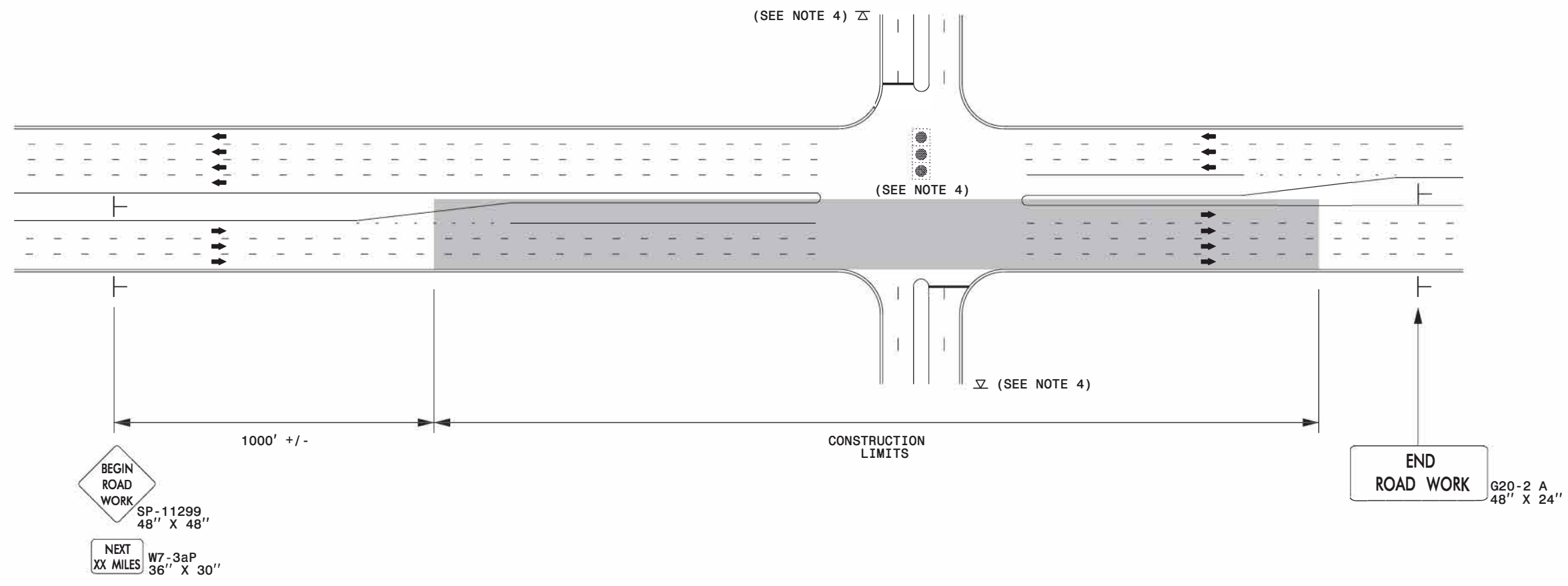


PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.



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

## URBAN / SUBURBAN WORKZONES



**NOTES:**

- 1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 36" ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
- 3) ADVANCE WARNING SIGNS NOT REQUIRED ON NON-SIGNALIZED SIDE STREETS.
- 4) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
- 5) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 2' AS MEASURED FROM THE EDGE OF PAVEMENT OR THE FACE OF THE CURB. WHEN UNABLE TO OBTAIN THE LATERAL CLEARANCE WITHIN THE MEDIAN AREA USE SHOULDER MOUNTS ONLY.
- 6) SIGN MOUNT LOCATIONS SHALL NOT BLOCK SIDEWALKS OR DRIVEWAYS.
- 7) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 8) IF MILLED AREAS ARE NOT PAVED BACK BY THE END OF THE WORK DAY, PORTABLE SIGNS SHALL BE USED TO WARN DRIVERS OF THE PRESENT CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO "ROUGH ROAD" W8-8, "UNEVEN LANES" W8-11, "GROOVED PAVEMENT" W8-15 w/MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER WHERE LATERAL CLEARANCE CAN BE OBTAINED WITHIN THE MEDIAN AREAS. THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

**LEGEND**

┆ STATIONARY SIGN

➔ DIRECTION OF TRAFFIC FLOW

**RESURFACING ADVANCE  
WARNING SIGNS FOR  
URBAN / SUBURBAN  
FACILITIES**

4/8/2015  
 C:\Users\mgarrrett\Downloads\Resurfacing\_AdvWarn\_Ur-Su (2).dgn  
 User: mgarrrett

SIGN NUMBER: 11299

BACKG COLOR: Fluorescent Orange

DESIGN BY: WJ

CHECKED BY:

DATE: Jun 22, 2011

TYPE: B

COPY COLOR: Black

PROJECT ID: ALL

DIV: ALL

QUANTITY: SEE PLANS

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 5'-6"

HEIGHT: 5'-6"

# SP 11299

PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.13.07.11001	12	14
2020CPT.13.07.21001		

TOTAL AREA: 30.5 Sq.Ft.

BORDER TYPE: INSET

RECESS: 0.59"

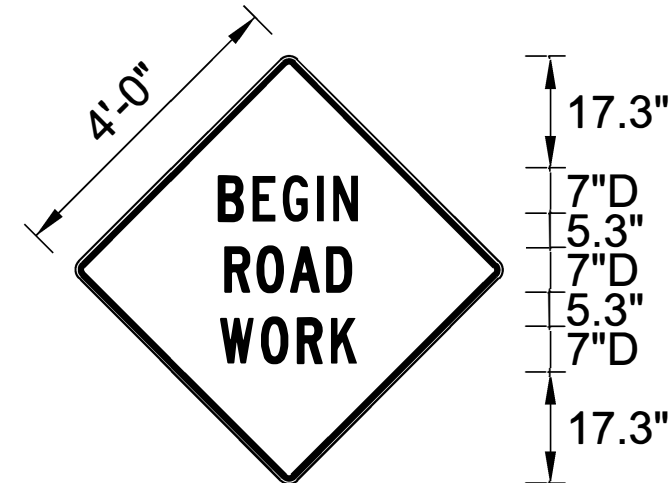
WIDTH: 0.75"

RADII: 1.38"

NO. Z BARS: N/A

LENGTH: N/A

MAT'L: 0.125" (3.2 mm) ALUMINUM



BORDER  
R=1.38"  
TH=0.75"  
IN=0.59"

Spacing Factor is 1 unless specified otherwise

### USE NOTES: 1,2

1. Legend and border shall be direct applied black non-reflective sheeting.
2. Background shall be Type VII, VIII, or IX (prismatic) fluorescent orange retroreflective sheeting.

### LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size  
Text Length

Letter spacings are to start of next letter																Series/Size Text Length	
	B	E	G	I	N												D 2000 25.2
20.5	6	5.4	6.3	2.8	4.8	20.5											
	R	O	A	D													D 2000 23.5
21.4	5.8	5.9	7	4.8	21.4												
	W	O	R	K													D 2000 24.5
20.9	7.1	6.5	5.9	4.9	20.9												

SIGN NUMBER: SP13106  
 TYPE: STATIONARY  
 QUANTITY: SEE PLANS

BACKG COLOR: Fluorescent Orange  
 COPY COLOR: Black

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 4'-0"  
 HEIGHT: 4'-0"  
 TOTAL AREA: 16.00 Sq.Ft.

BORDER TYPE: INSET  
 RECESS: 0.75"  
 WIDTH: 1.25"  
 RADII: 3"

NO. Z BARS:  
 LENGTH:

MAT'L: 0.080" (2.0 mm) ALUMINUM

USE NOTES: 1,2

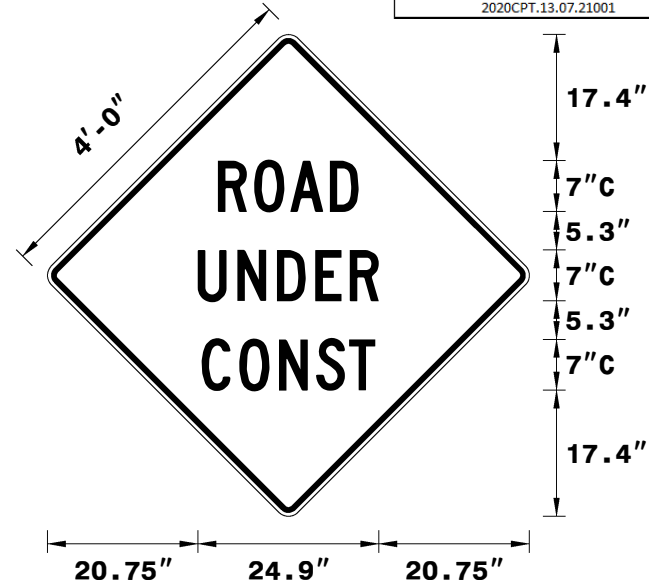
- Legend and border shall be direct applied black non-reflective sheeting.
- Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

DESIGN BY: B. RASHID  
 PROJECT ID:

CHECKED BY: AIA  
 DIV:

DATE: Apr 26, 2013

PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.13.07.11001	13	14
2020CPT.13.07.21001		



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Letter spacings are to start of next letter																		Series/Size Text Length
		R	O	A	D													C 2000
	23.5	5	5	5.5	3.9	23.5												19.3
		U	N	D	E	R												C 2000
	20.7	5.5	5.5	5.3	4.8	3.9	20.7											24.9
		C	O	N	S	T												C 2000
	21.2	5.2	5.5	5.1	4.6	3.6	21.2											23.9

SIGN NUMBER: SP13107  
 TYPE: STATIONARY  
 QUANTITY: SEE PLANS

BACKG COLOR: Fluorescent Orange  
 COPY COLOR: Black

DESIGN BY: B. RASHID  
 PROJECT ID:

CHECKED BY: AIA  
 DIV:

DATE: Apr 26, 2013

SYMBOL	X	Y	WID	HT

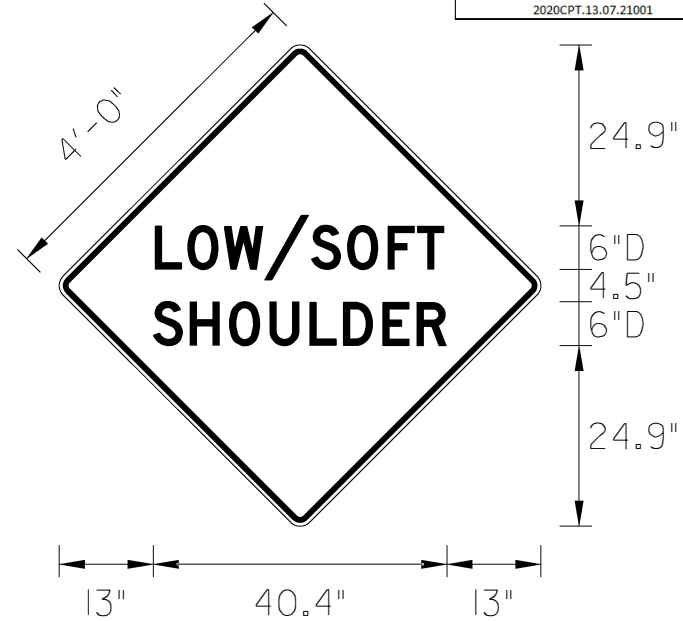
SIGN WIDTH: 4'-0"  
 HEIGHT: 4'-0"  
 TOTAL AREA: 16.00 Sq.Ft.

BORDER TYPE: INSET  
 RECESS: 0.75"  
 WIDTH: 1.25"  
 RADII: 3"

MAT'L: 0.080" (2.0 mm) ALUMINUM

NO. Z BARS:  
 LENGTH:

PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.13.07.11001	14	14
2020CPT.13.07.21001		



Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

- Legend and border shall be direct applied black non-reflective sheeting.
- Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter											Series/Size
											Text Length
	L	O	W	/	S	O	F	T			D 2000
13.2	4.5	5	5.5	6.5	5	5.6	4.1	3.7	13.2		39.9
	S	H	O	U	L	D	E	R			D 2000
13	5.1	5.4	5.6	5.5	4.6	5.4	4.7	4.1	13		40.4