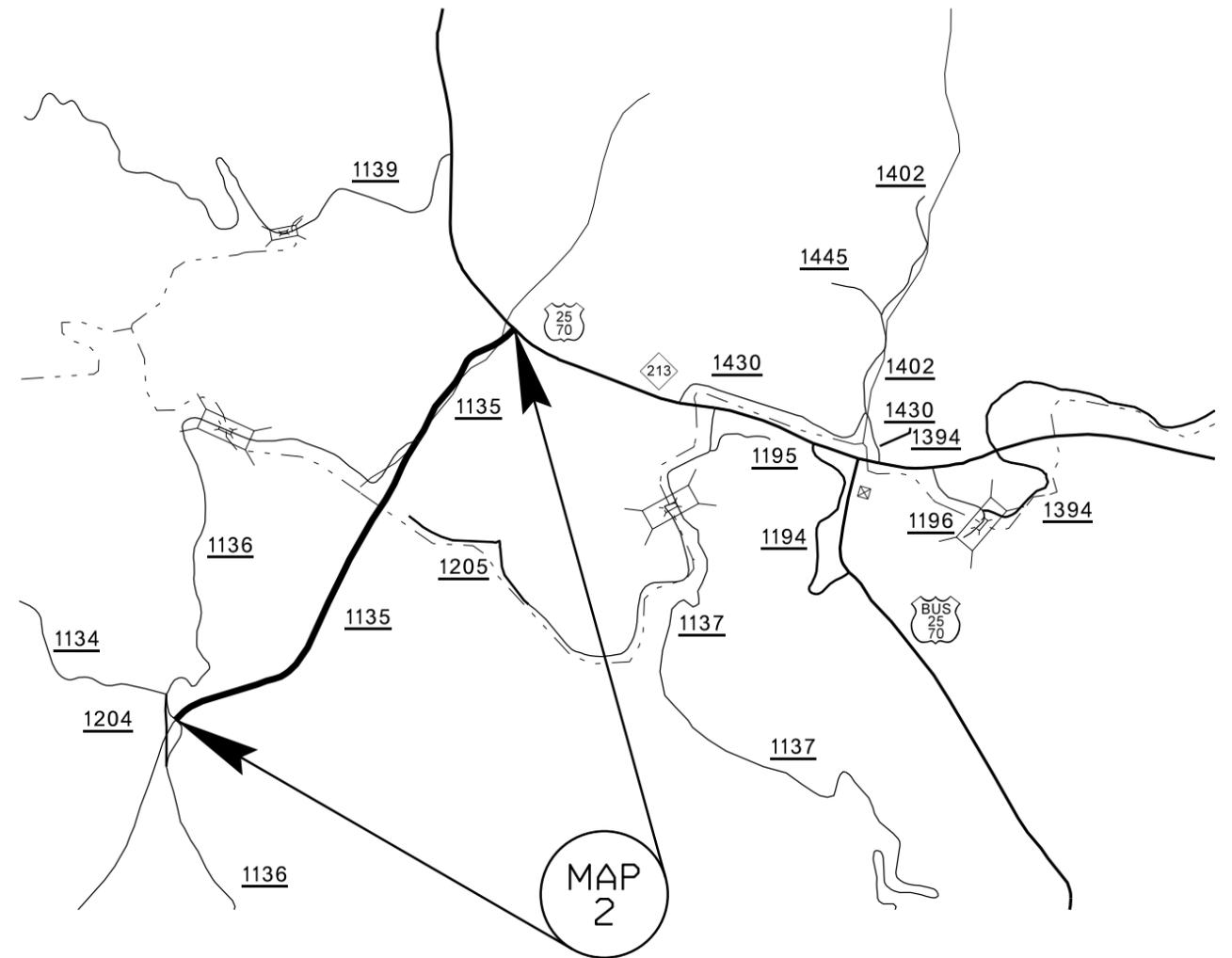
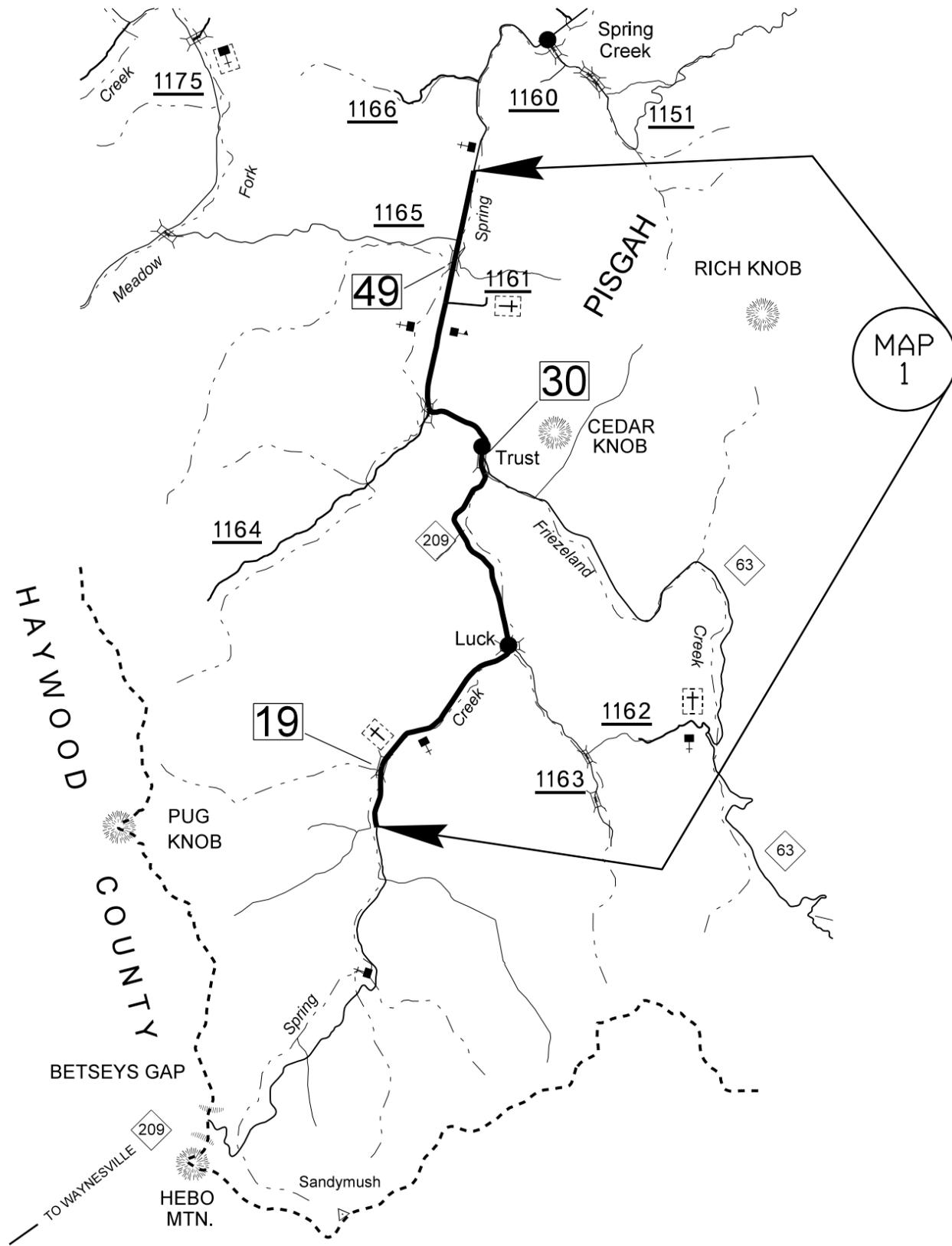
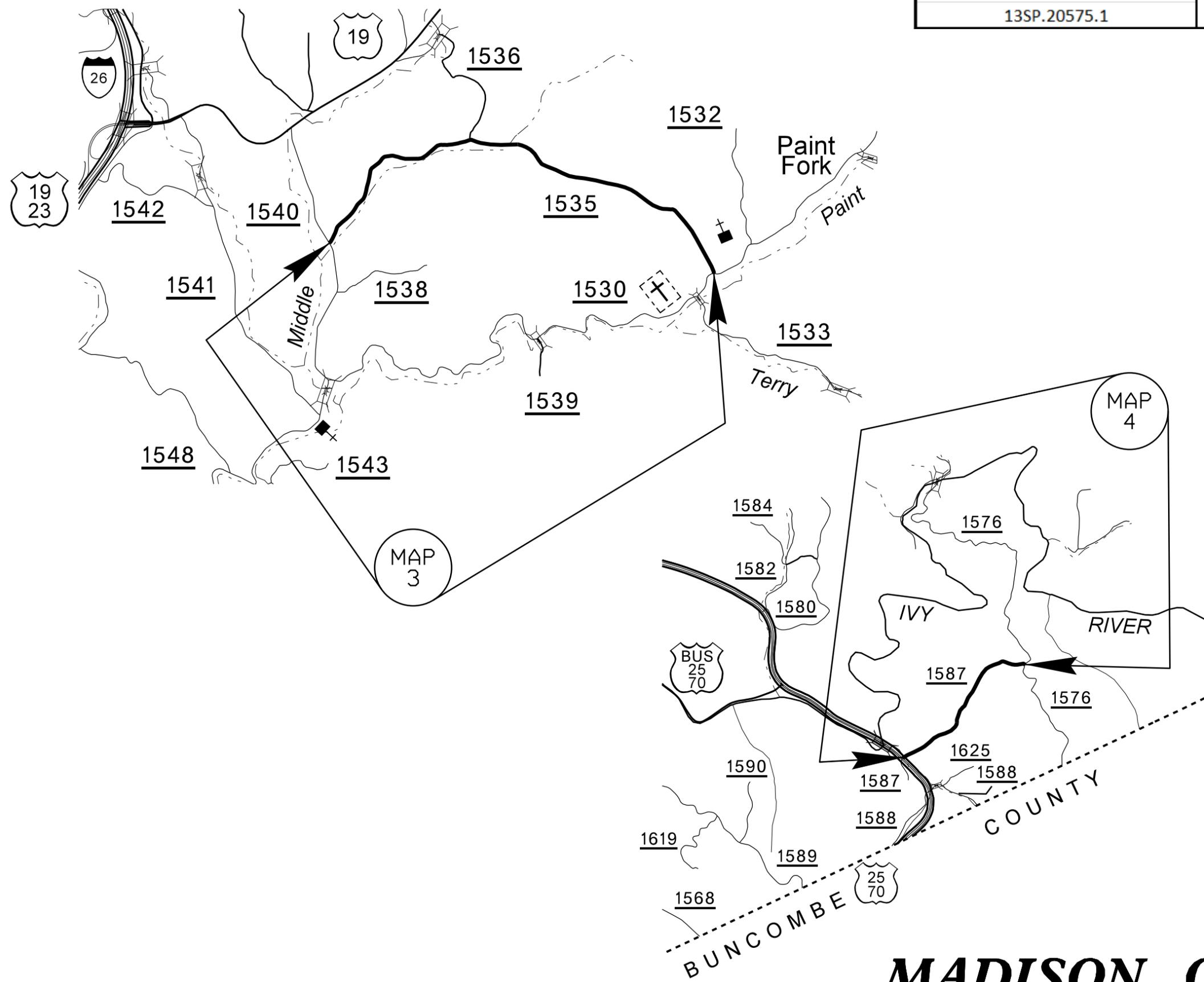


PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10571.14, 13CR.20571.15	1	21
13SP.20575.1		



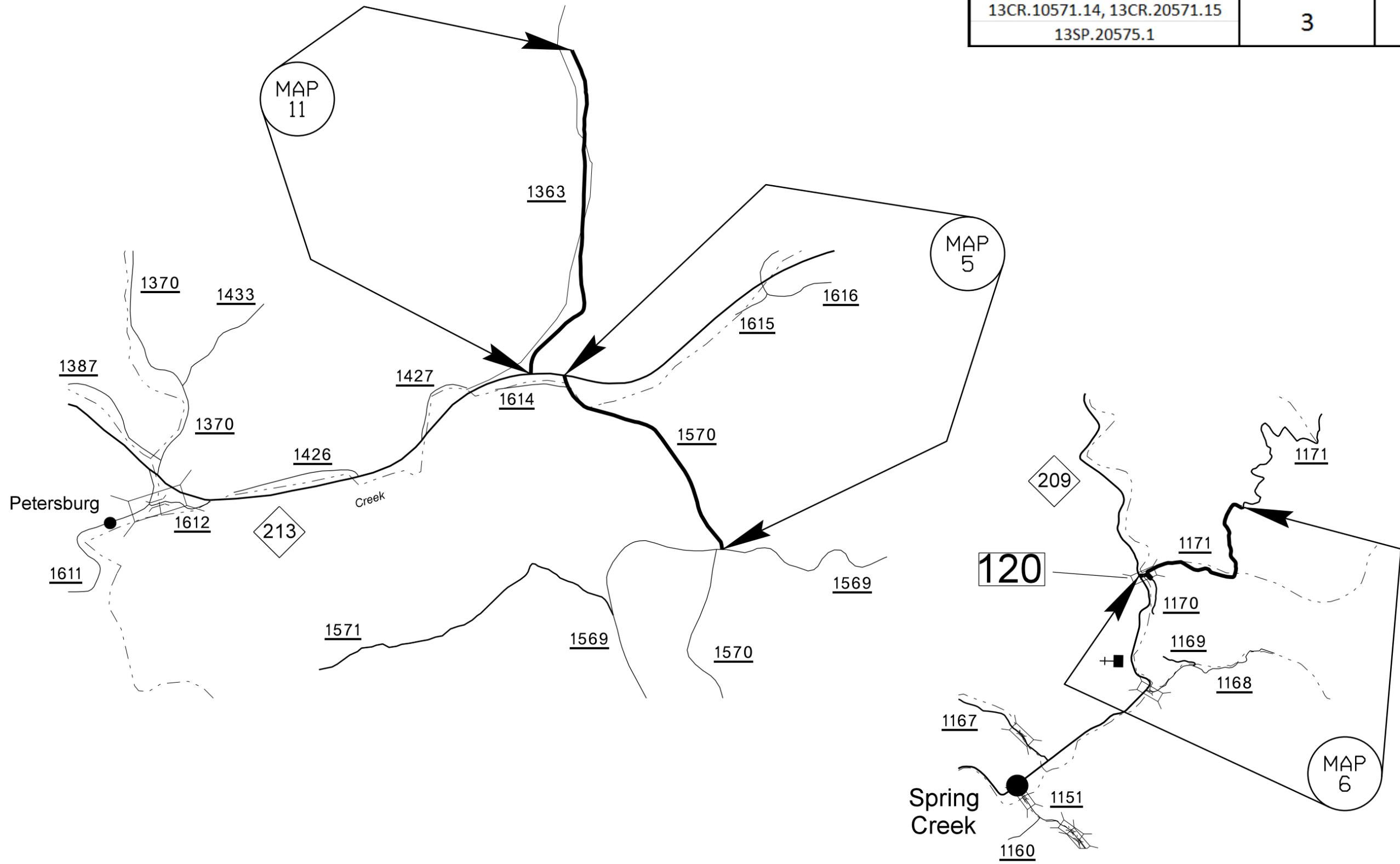
MADISON COUNTY

PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10571.14, 13CR.20571.15	2	21
13SP.20575.1		



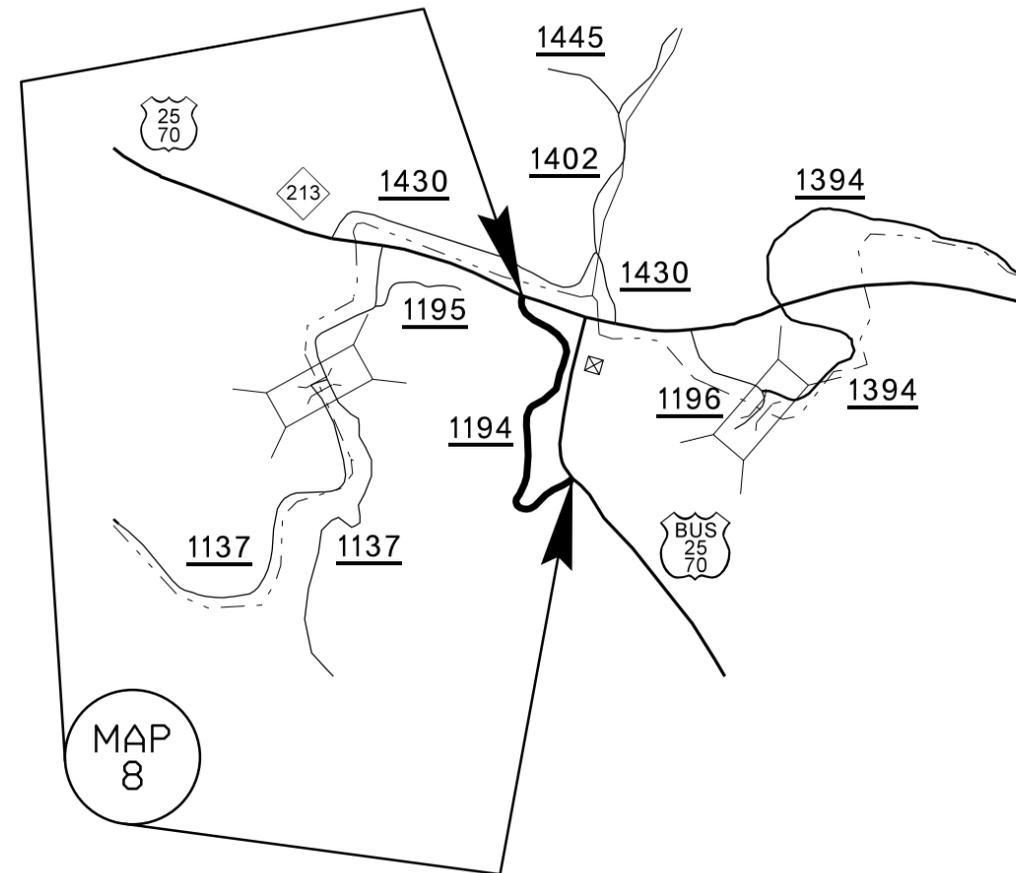
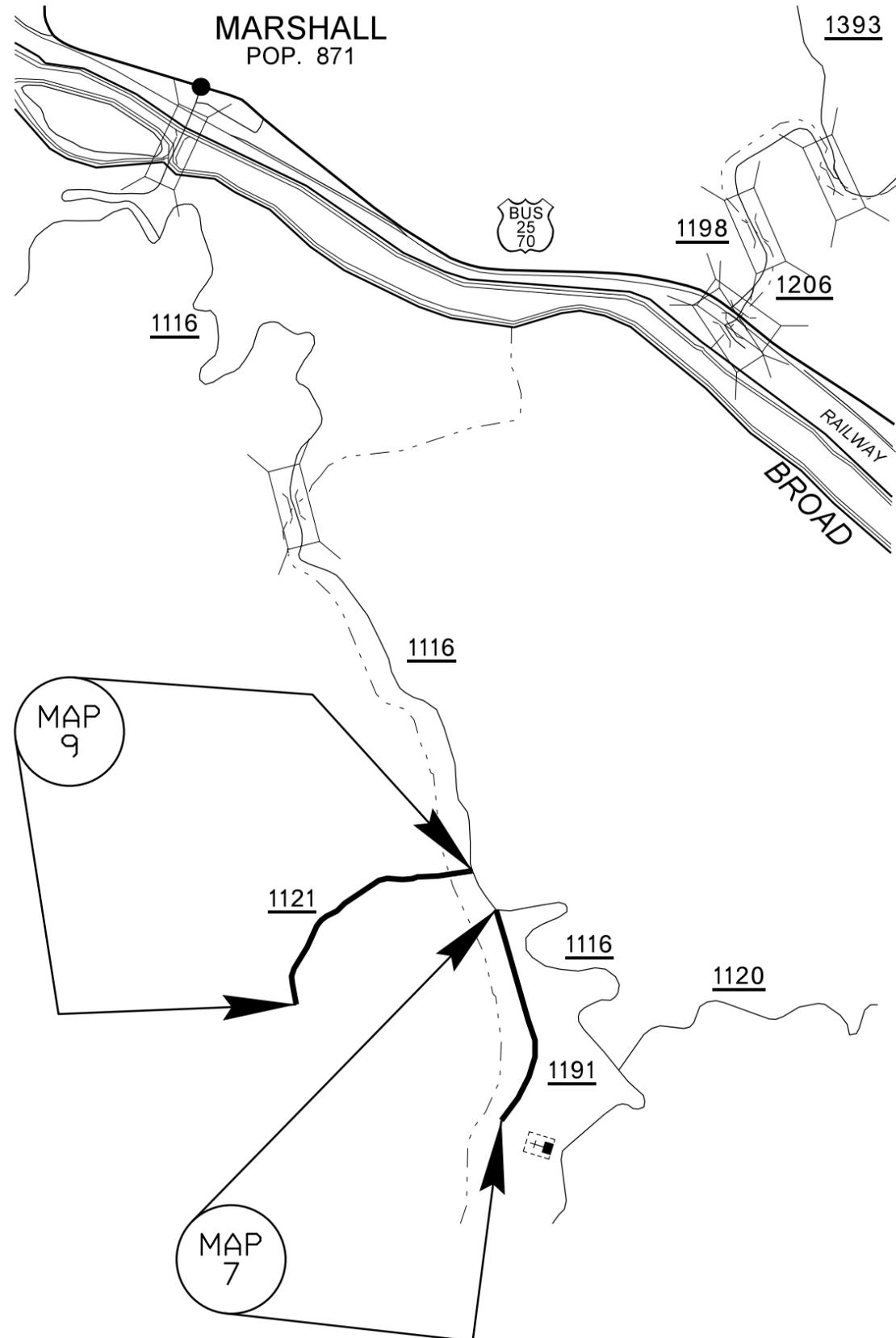
MADISON COUNTY

PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10571.14, 13CR.20571.15	3	21
13SP.20575.1		



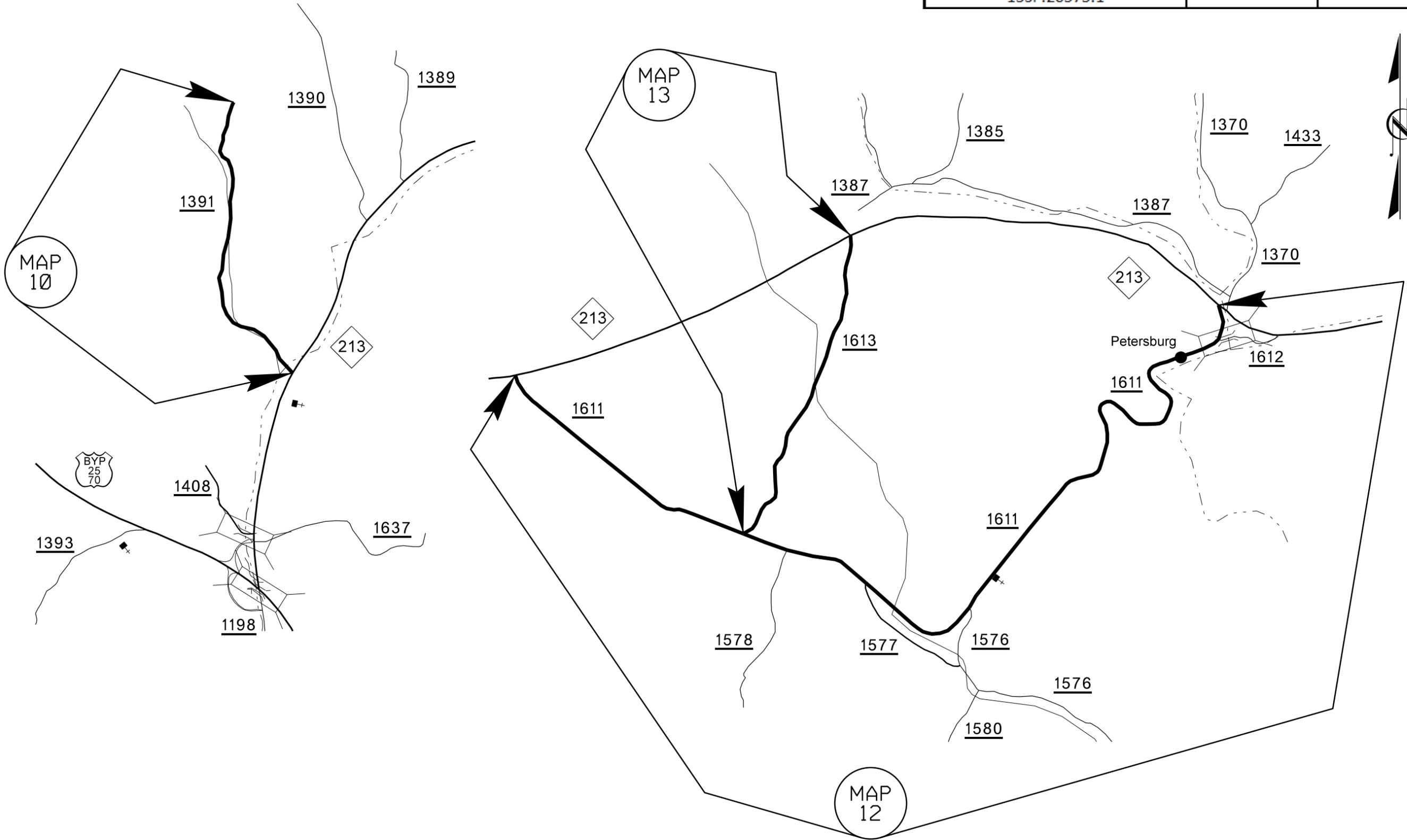
MADISON COUNTY

PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10571.14, 13CR.20571.15	4	21
13SP.20575.1		



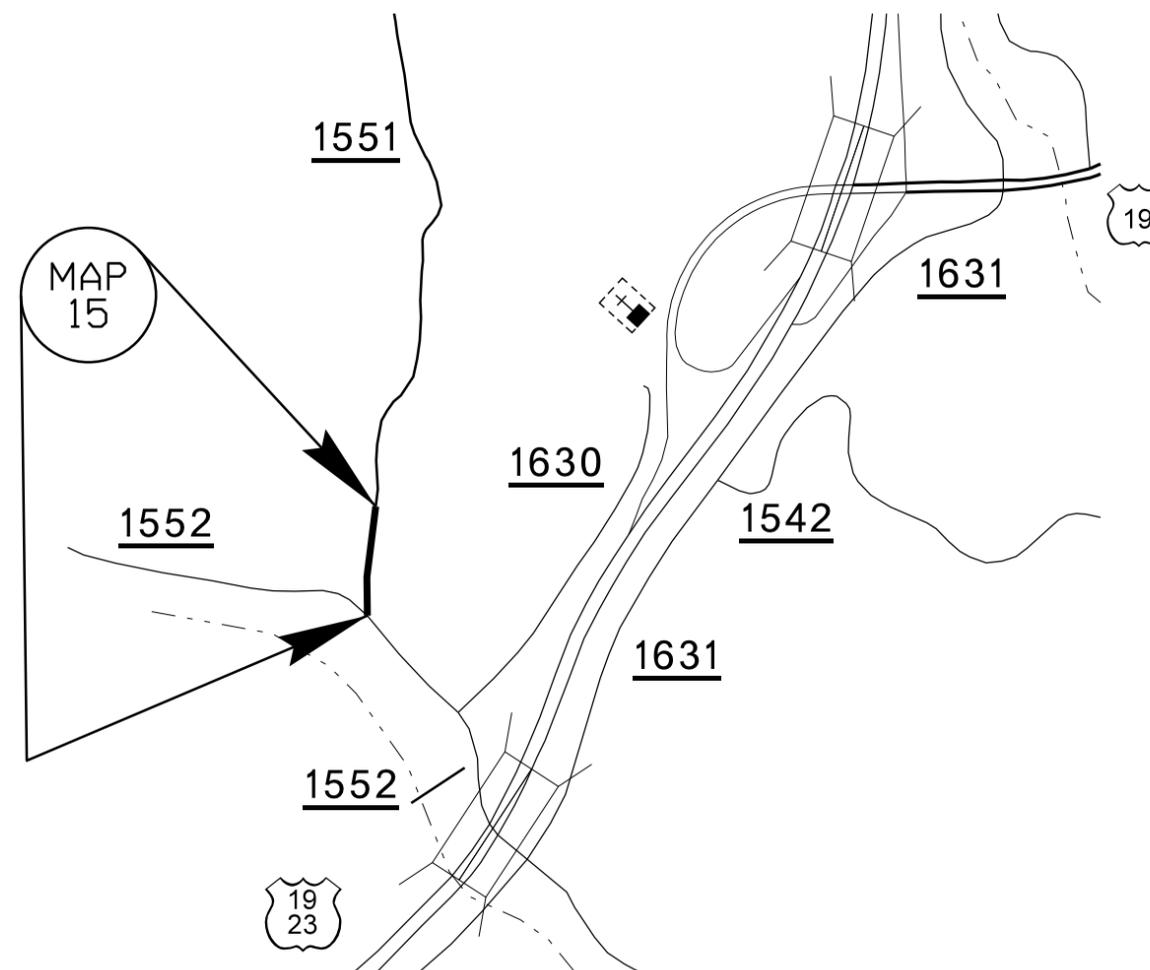
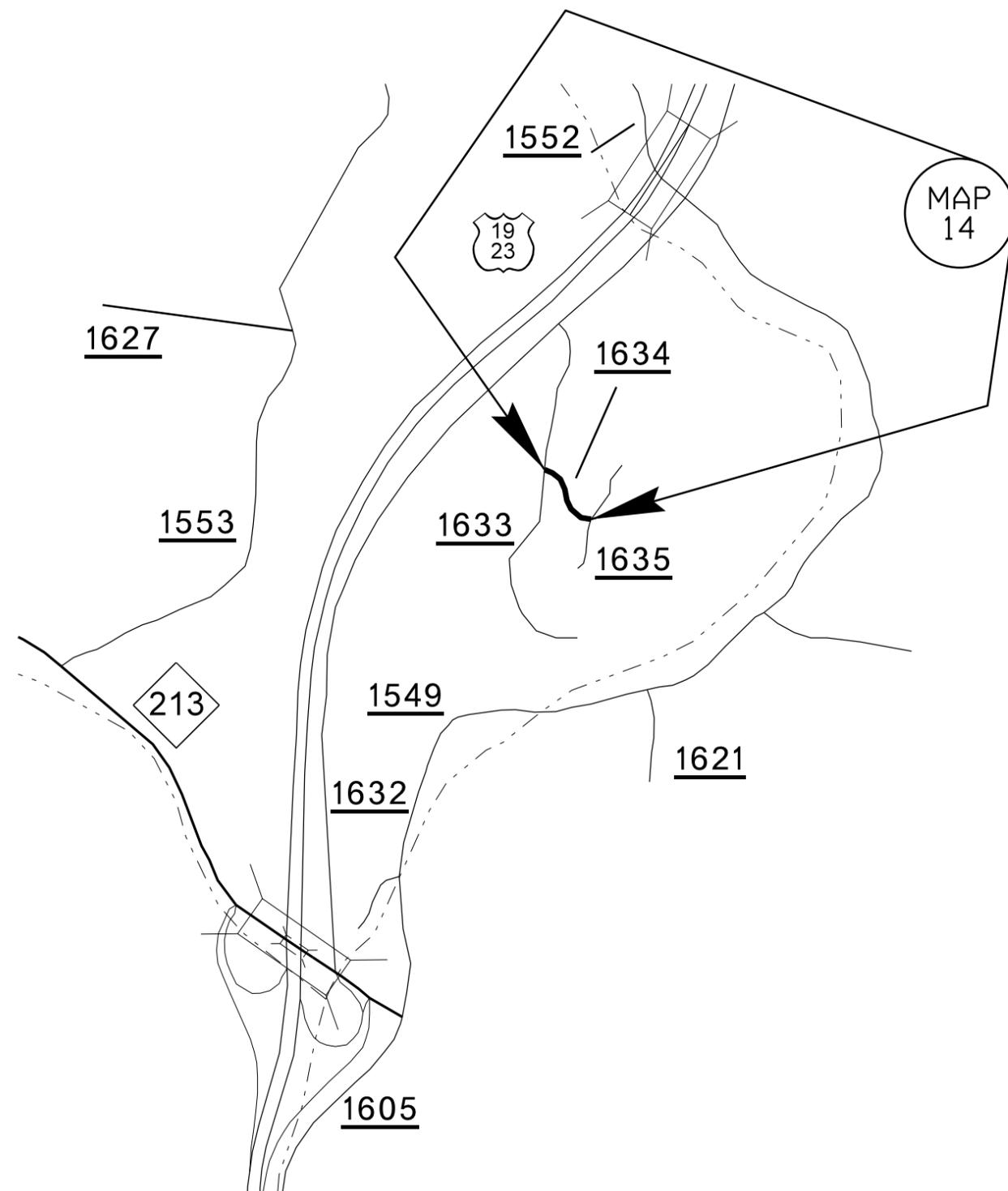
MADISON COUNTY

PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10571.14, 13CR.20571.15	5	21
13SP.20575.1		



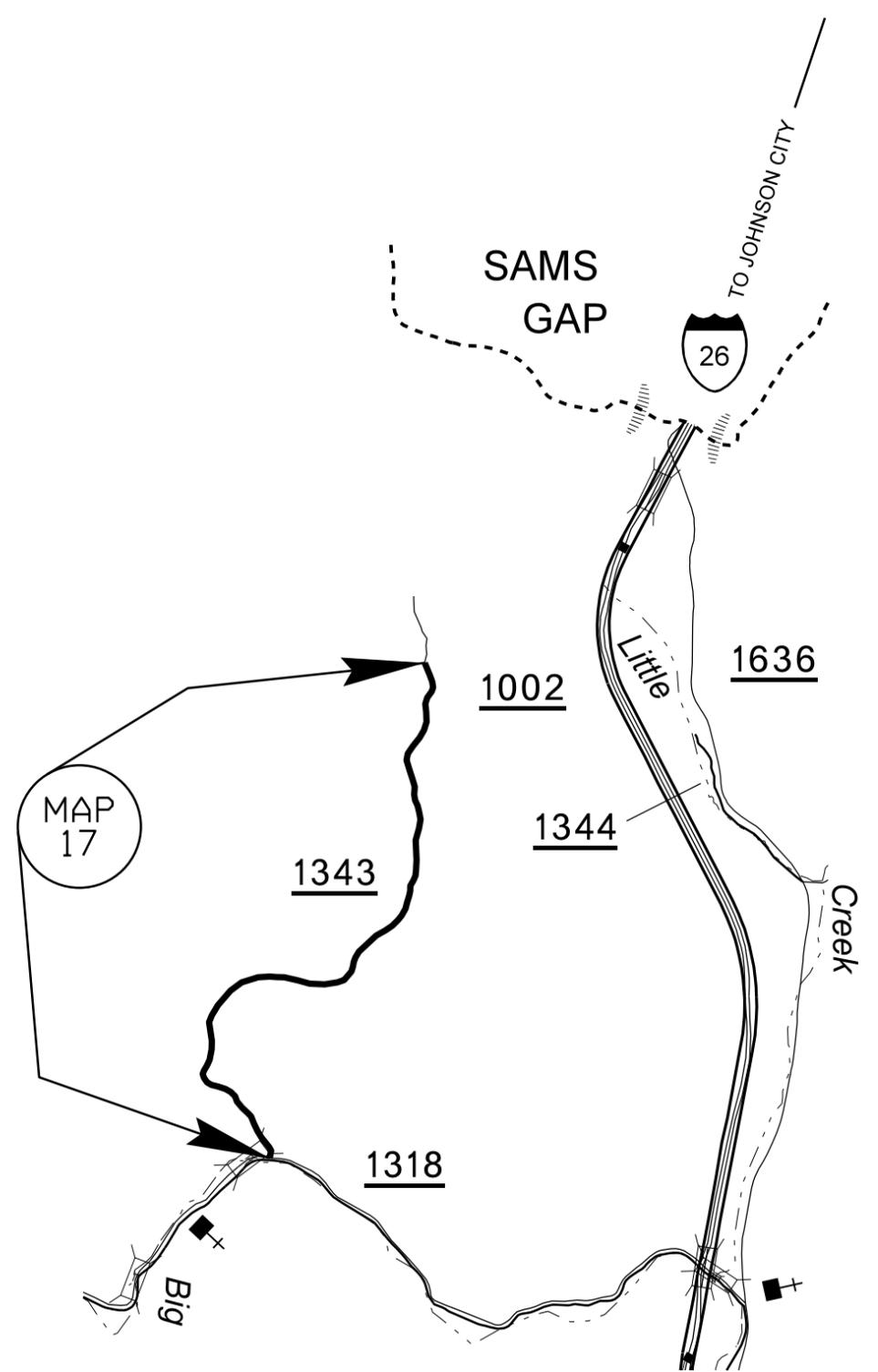
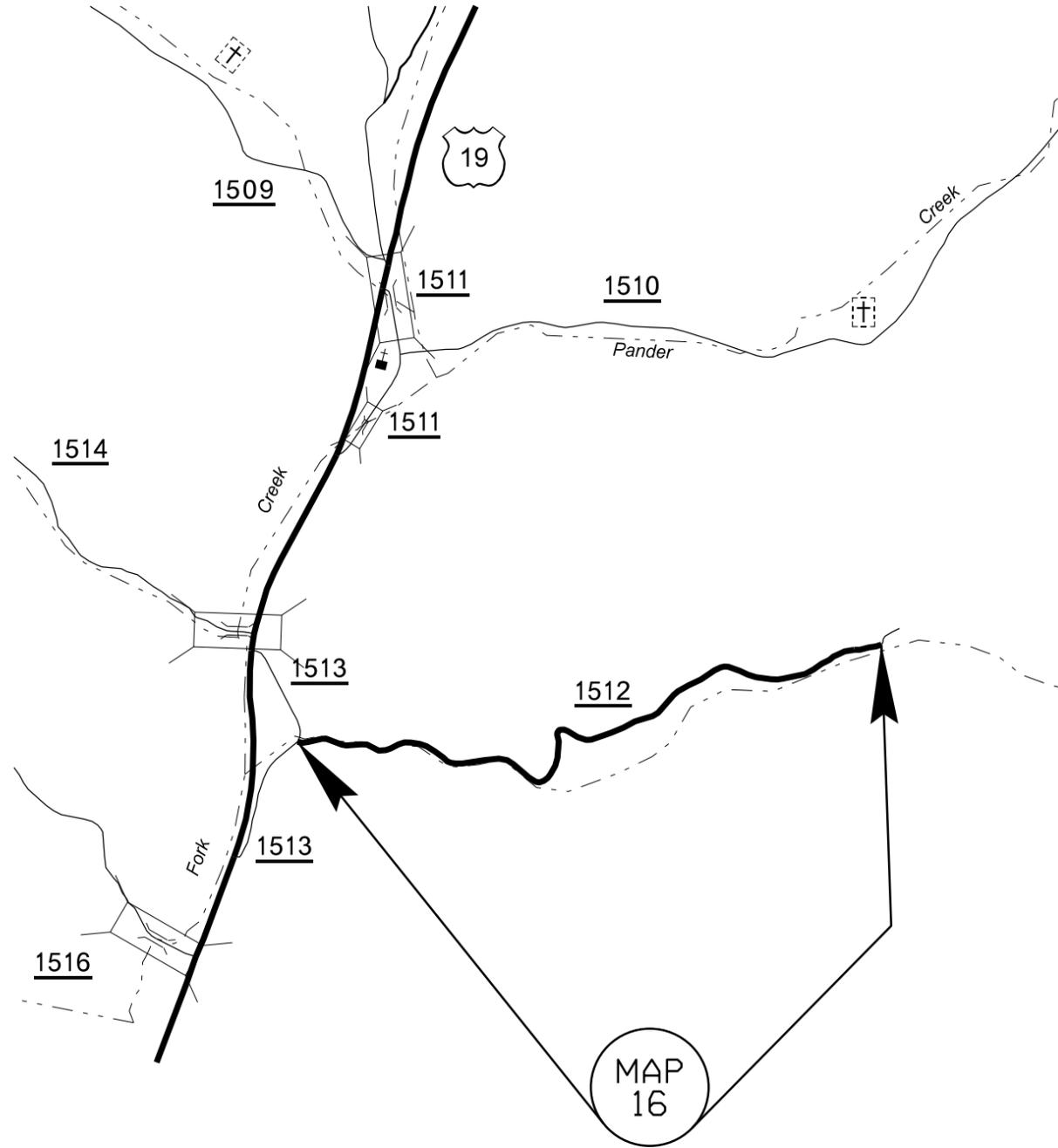
MADISON COUNTY

PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10571.14, 13CR.20571.15	6	21
13SP.20575.1		



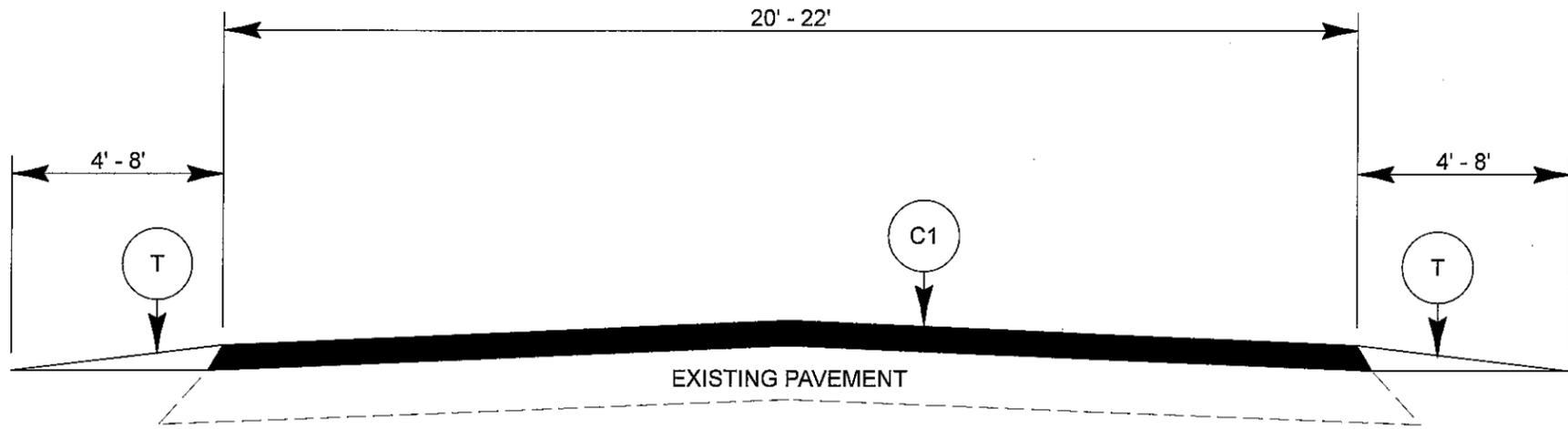
MADISON COUNTY

PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10571.14, 13CR.20571.15	7	21
13SP.20575.1		

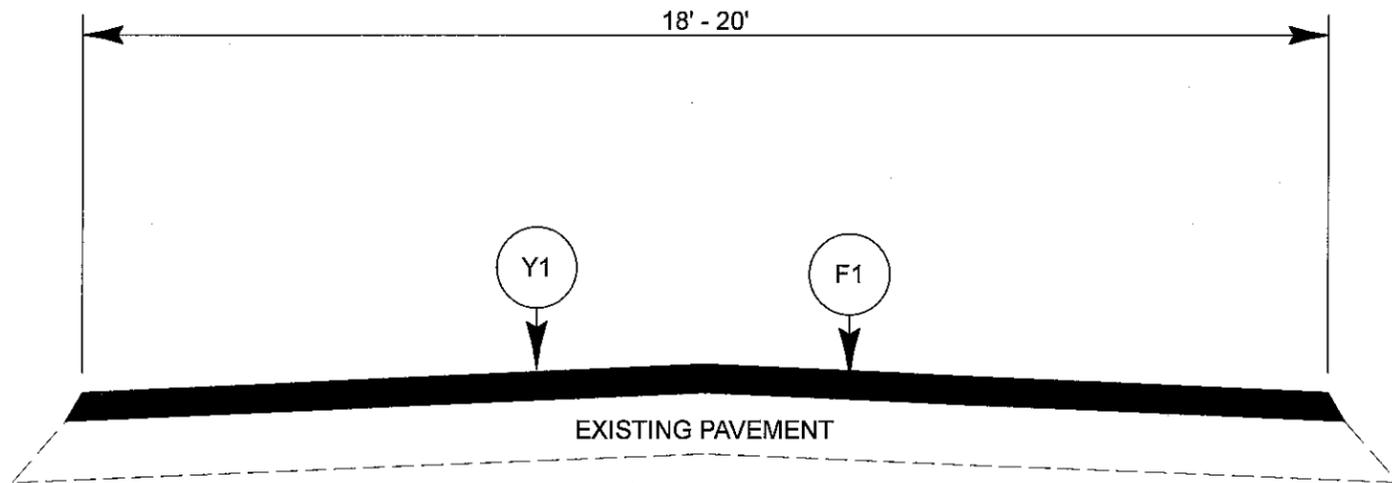
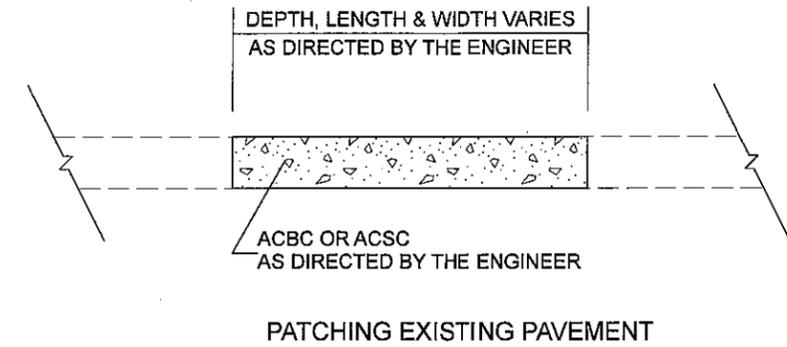


MADISON COUNTY

PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10571.14, 13CR.20571.15 13SP.20575.1	9	21



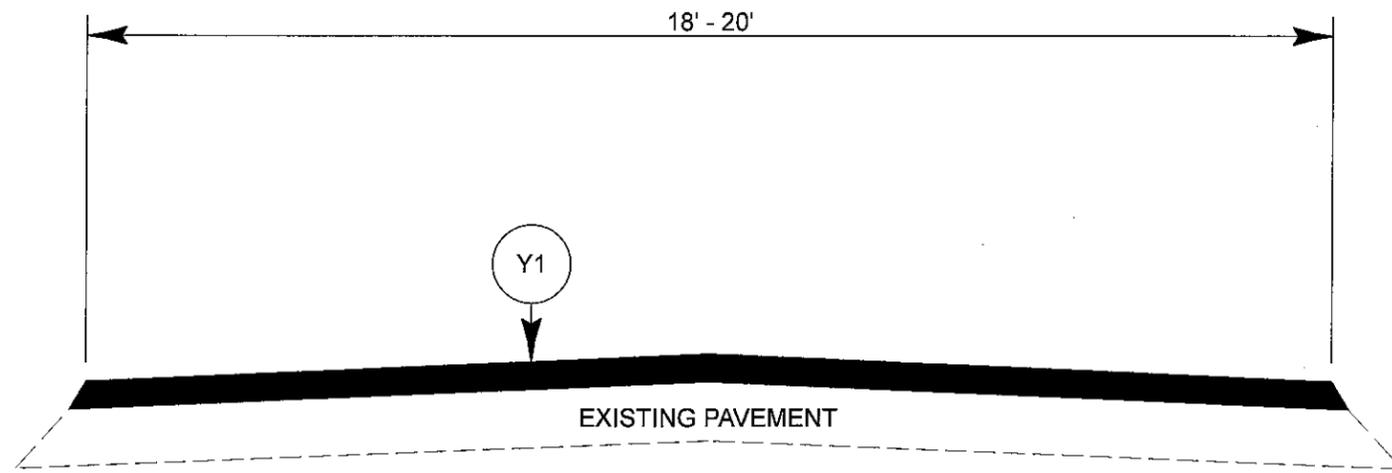
TYPICAL SECTION NO. 1



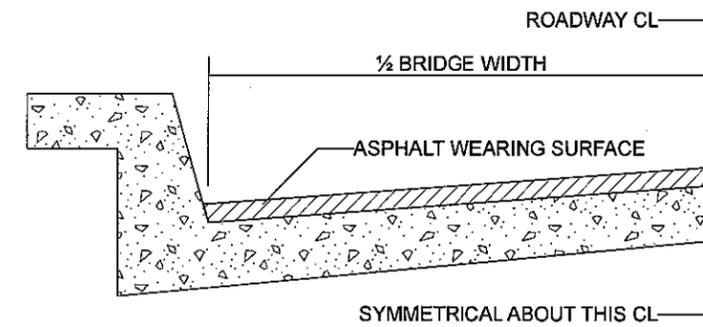
TYPICAL SECTION NO. 2

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS PER SQ. YARD
F1	ASPHALT SURFACE TREATMENT, SPLIT SEAL (LIGHTWEIGHT AGGREGATE)
T	SHOULDER RECONSTRUCTION
V1	INCIDENTAL MILLING
Y1	FOG SEAL

PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10571.14, 13CR.20571.15	10	21
13SP.20575.1		



TYPICAL SECTION NO. 3



BRIDGE HALF TYPICAL SECTION

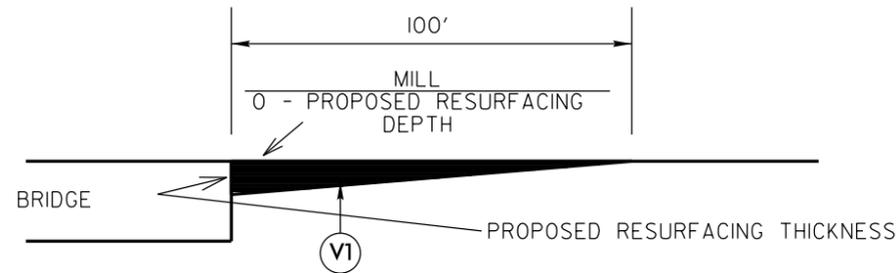
FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN

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", SF9.5A 1.0", S9.5X 1.5", S12.5X 2.0", ULTRATHIN HOT MIX ASPHALT-TYPE A 1/2", ULTRATHIN HOT MIX ASPHALT-TYPE B 5/8", ULTRATHIN HOT MIX ASPHALT-TYPE C 1/2". THE MAXIMUM THICKNESS SHOULD DEPEND ON PAVEMENT TYPE AS FOLLOWS: S4.75A 1.0", SF9.5A 1.5", S9.5X 2.0", S12.5X 2.0", ULTRATHIN HOT MIX ASPHALT-TYPE A 3/4", ULTRATHIN HOT MIX ASPHALT-TYPE B 5/8", ULTRATHIN HOT MIX ASPHALT-TYPE C 1/2".

NOTES

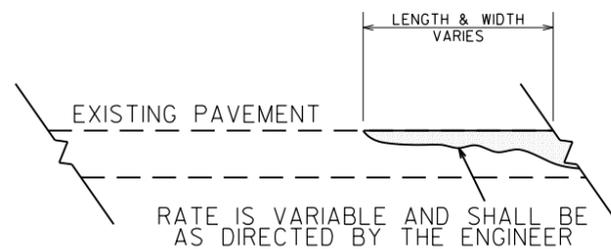
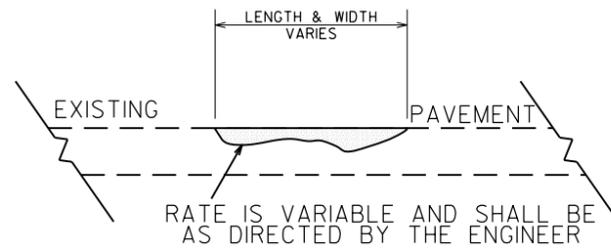
ALL UNPAVED ROADS TO BE RESURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT.
 ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER.
 EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.
 SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS UNLESS OTHERWISE INDICATED.
 BRIDGES ARE TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.

PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10571.14, 13CR.20571.15	11	21
13SP.20575.1		

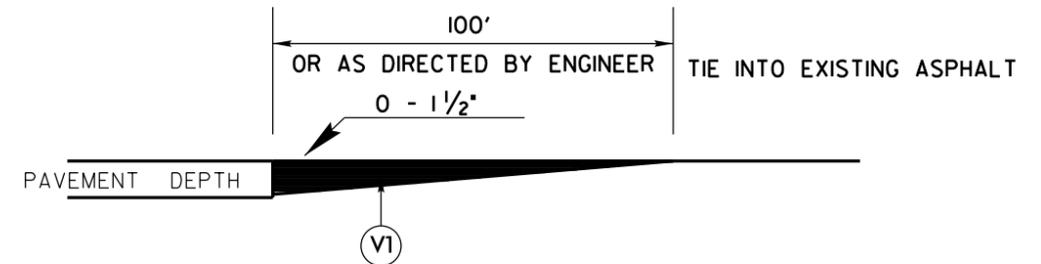


INCIDENTAL MILLING DETAIL AT BRIDGE APPROACHES

**WHERE BRIDGES WILL NOT BE RESURFACED.
THIS WILL BE PAID FOR AS INCIDENTAL MILLING.**



**DETAIL SHOWING
METHOD OF WEDGING**

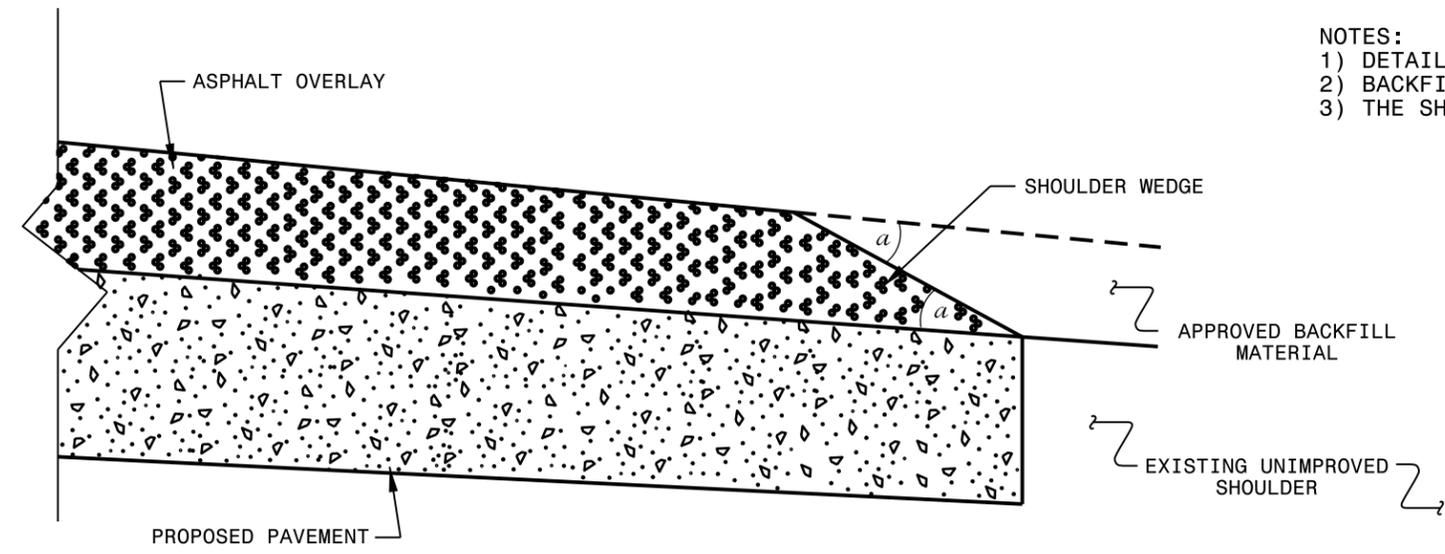


DETAIL TO TIE INTO EXIST PAVEMENT

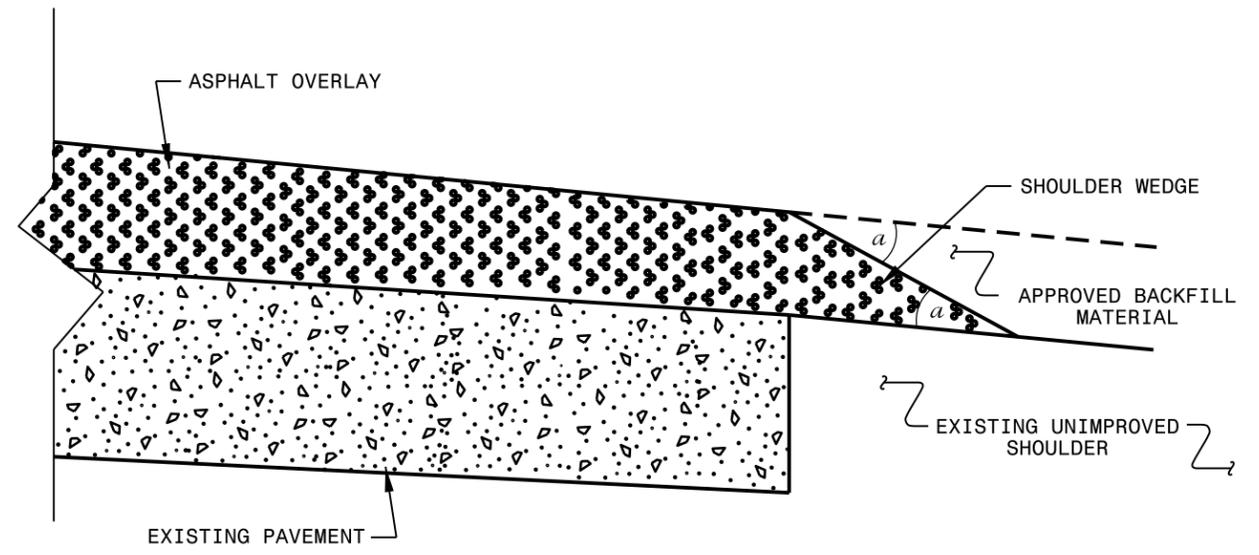
THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT HE WILL BE REQUIRED TO MILL THE EXISTING ASPHALT PAVEMENT TO ENSURE A PROPER TIE-IN WITH THE EXISTING SURFACE AT THE BEGINNING, END AND Y LINES OF EACH MAP TO BE RESURFACED WITH ASPHALT CONC SURFACE COURSE, TYPE S9.5B. THIS WILL BE PAID FOR AS INCIDENTAL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

PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10571.14, 13CR.20571.15 13SP.20575.1	12	21

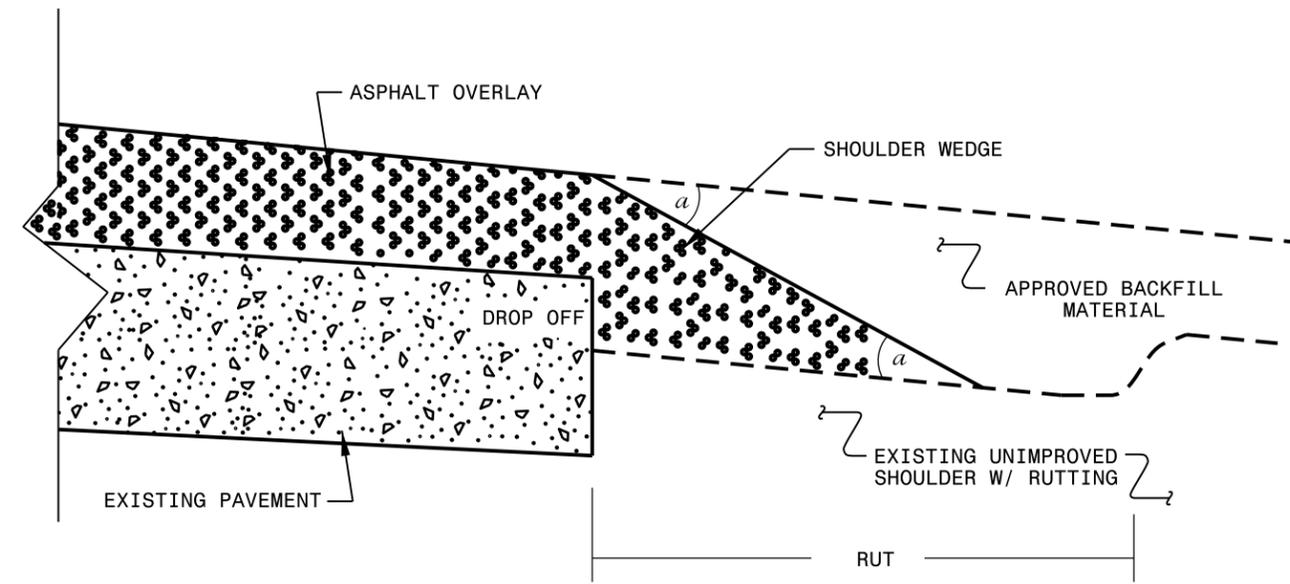
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



SHOULDER WEDGE DETAIL
(Resurfacing Projects w/ Widening or
with Existing Paved Shoulder having no dropoffs)



SHOULDER WEDGE DETAIL
(Resurfacing Projects w/ NO Widening)



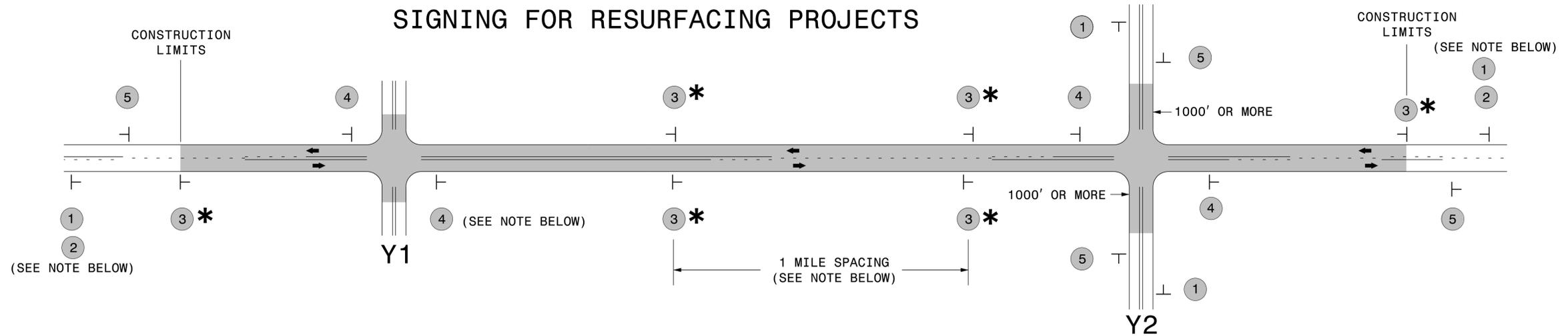
SHOULDER WEDGE DETAIL
(Resurfacing Adjacent to
Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

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: 10/16/12
CHECKED BY:	DATE:
FILE SPEC.: susr/details/stand/shoulderwedgedetail.dgn	

SYSTEMS DESIGN
USER NAME

SIGNING FOR RESURFACING PROJECTS



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>	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>SP 13107 48" X 48"</small>	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.		
	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.		
5	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.	<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;"> <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;"> <small>W20-7 A 48" X 48"</small> </div> </div> <p style="text-align: center;">PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>		

* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)

SUBSTITUTE LOW/SOFT SHOULDER SIGNS BY ALTERNATING THE FOLLOWING TWO SIGNS:
 STARTING WITH "UNMARKED PAVEMENT AHEAD" (SP 06026) FOLLOWED BY "LOOSE GRAVEL" (W8-7).

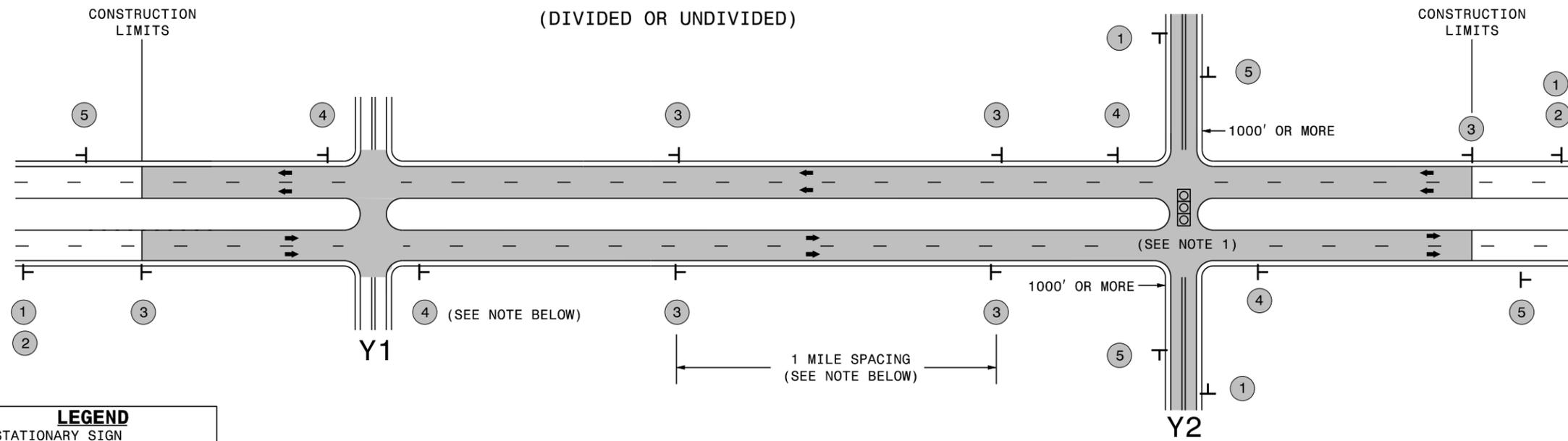


**RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS**

6/3/2014 S:\T\U\WZTC\Apps\WorkZoneGeneral\ExternalWebPage\DesRes\Resurfacing\Resurfacing_AdvWarn_2Ln.dgn User:rmgarr.eht

SIGNING FOR RURAL AND SUBURBAN MULTI-LANE ROADWAYS WITH SHOULDER SECTIONS (DIVIDED OR UNDIVIDED)

PROJECT NO. 13CR.10571.14, 13CR.20571.15 13SP.20575.1	SHEET NO. 14	TOTAL NO. 21
-------------------------------------------------------------	------------------------	------------------------



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>	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>SP 13107 48" X 48"</small>	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.		
	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.		
⑤	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.	<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;"> <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;"> <small>W20-7 A 48" X 48"</small> </div> </div> <p style="text-align: center;">PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1) 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. 		

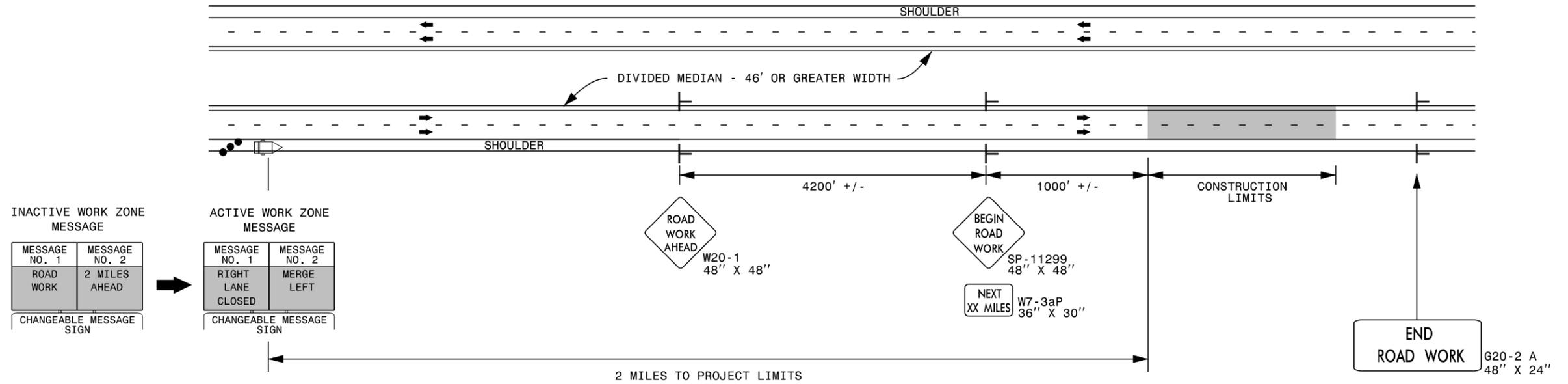
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

**RESURFACING
ADVANCE WARNING SIGNS
FOR RURAL AND SUBURBAN
MULTI-LANE ROADWAYS
W/ SHOULDER SECTIONS
(DIVIDED OR UNDIVIDED)**

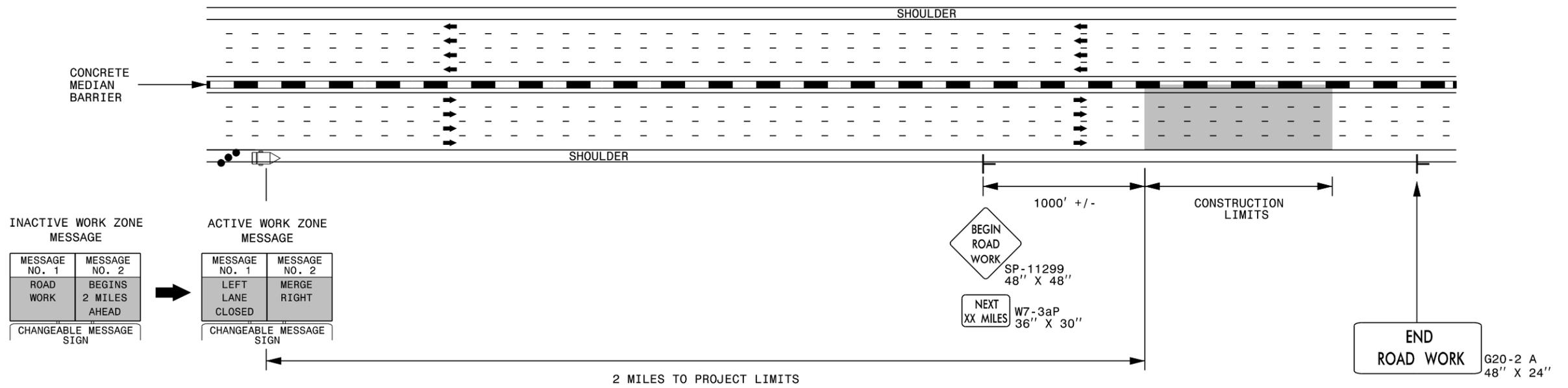
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DIVIDED MEDIANS WITH WIDTHS 46' OR GREATER

PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10571.14, 13CR.20571.15	15	21
13SP.20575.1		



DIVIDED MEDIANS WITH WIDTHS LESS THAN 46' OR WITH PERMANENT MEDIAN BARRIER



NOTES:

- 1) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 6' AS MEASURED FROM THE EDGE OF PAVEMENT.
- 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) FOR MEDIAN WIDTHS LESS THAN 46' (MEASURED EDGELINE TO EDGELINE) USE THE BOTTOM DRAWING.
- 4) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 5) INSTALL "ROAD WORK AHEAD" (W20-1) ALONG ENTRANCE RAMP 500' PRIOR TO RAMP TERMINAL, AND "END ROAD WORK" (G20-2a) AT THE END OF EXIT RAMP WITHIN THE WORK ZONE.
- 6) 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 AND WITH DIVIDED MEDIANS OF 46' OR GREATER. THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

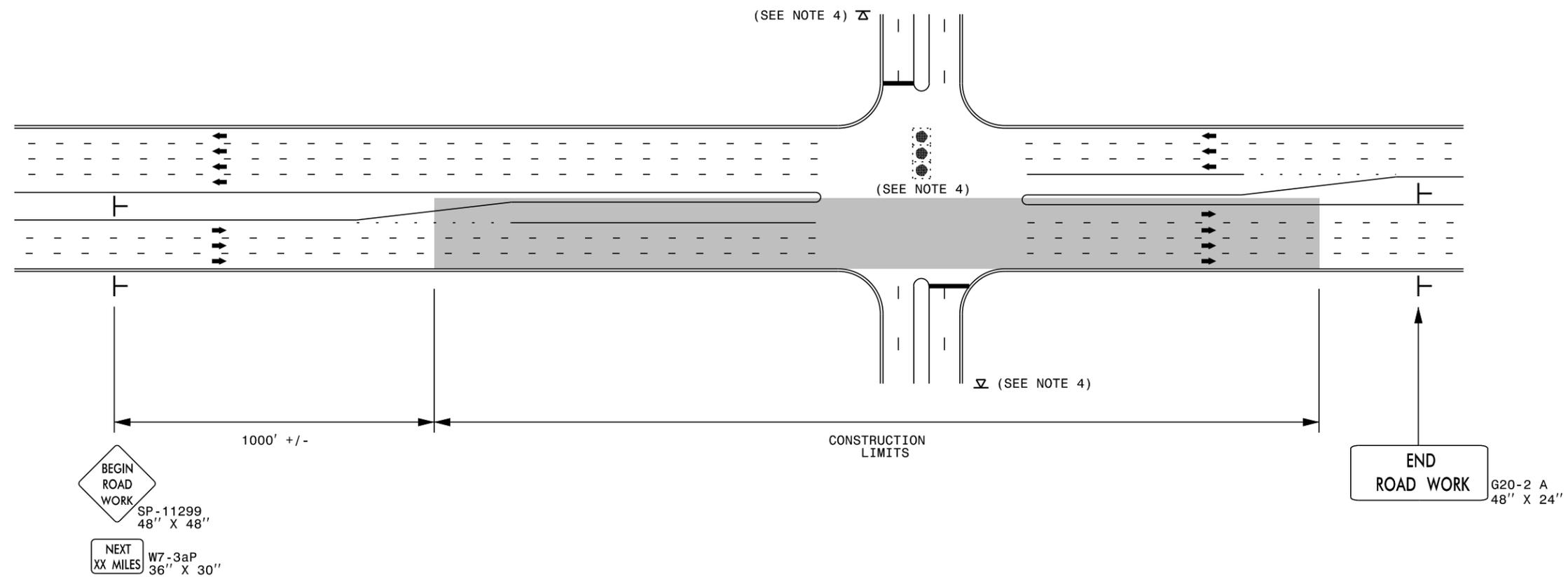
LEGEND

- CHANGEABLE MESSAGE SIGN (CMS)
- STATIONARY SIGN
- DIRECTION OF TRAFFIC FLOW
- TRAFFIC DRUM



RESURFACING ADVANCE
WARNING SIGNS FOR
HIGH SPEED FACILITIES
≥ 60 MPH

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**

2/24/2014 S:\TMU\WZTC\Resurfacing\2013Documents\New_Procedures_05_09_2013\Resurfacing_AdvWarn_UrSub.dgn

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.
13CR.10571.14, 13CR.20571.15	17	21
13SP.20575.1		

TOTAL AREA: 30.5 Sq.Ft.

BORDER TYPE: INSET

RECESS: 0.59"

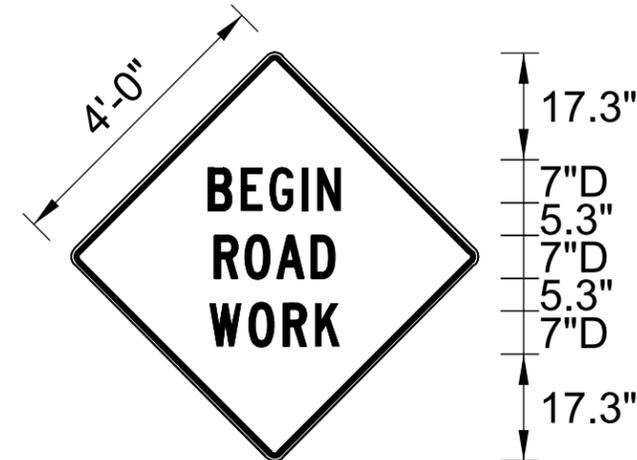
WIDTH: 0.75"

RADII: 1.38"

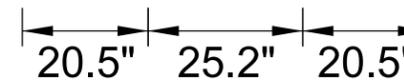
NO. Z BARS: N/A

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

- Legend and border shall be direct applied black non-reflective sheeting.
- 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
	20.5	6	5.4	6.3	2.8	4.8	20.5										25.2
		R	O	A	D												D 2000
	21.4	5.8	5.9	7	4.8	21.4											23.5
		W	O	R	K												D 2000
	20.9	7.1	6.5	5.9	4.9	20.9											24.5

SIGN NUMBER: SP13106
 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

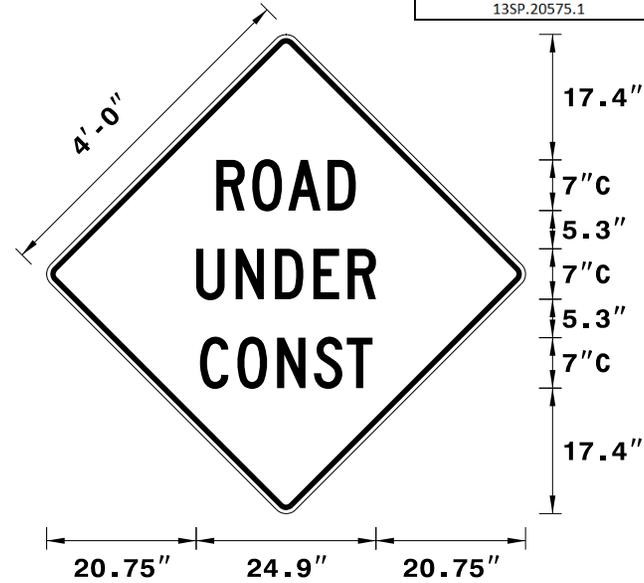
SIGN WIDTH: 4'-0"
 HEIGHT: 4'-0"
 TOTAL AREA: 16.00 Sq.Ft.

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

NO. Z BARS:
 LENGTH:

MAT'L: 0.080" (2.0 mm) ALUMINUM

PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10571.14, 13CR.20571.15 13SP.20575.1	18	21



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

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

PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10571.14, 13CR.20571.15 13SP.20575.1	20	21

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TON	SHOULDER RECONSTRUCTION SMI	INCIDENTAL MILLING SY	ASPHALT CONC SURFACE COURSE, TYPE S9.5B TON	ASPHALT BINDER FOR PLANT MIX TON	PATCHING EXISTING PAVEMENT TON	ASPHALT SURFACE TREATMENT, SPLIT SEAL SY	GENERIC PAVING ITEM FOG SEAL SY
13CR.10571.14	Madison	1	NC 209	3.3 MILES FROM HAYWOOD CL TO 0.55 MILES NORTH OF SR 1165 (MP 3.30 - MP 8.45)	1	2	2WU	NO	NO	5.15	20	125	10.30	1,096	5,618	337	1,430		
TOTAL FOR PROJ NO. 13CR.10571.14										5.15		125	10.30	1,096	5,618	337	1,430		
13CR.20571.15	Madison	2	SR 1135	FROM US 25/70 TO SR 1136 (MP 0.00 - MP 0.98)	1	2	2WU	NO	NO	0.98	22	49	1.96		1,175	71	400		
		3	SR 1535	FROM SR 1540 TO SR 1530 (MP 0.00 - MP 2.45)	2	2	2WU	NO	NO	2.45	20							28,747	28,747
		4	SR 1587	FROM SR 1576 TO US 25/70 (MP 0.00 - MP 1.1)	2	2	2WU	NO	NO	1.1	18							11,616	11,616
		5	SR 1570	FROM NC 213 TO SR 1569 (MP 0.00 - MP 0.6)	2	2	2WU	NO	NO	0.6	20							7,040	7,040
TOTAL FOR PROJ NO. 13CR.20571.15										5.13		49	1.96		1,175	71	400	47,403	47,403
13SP.20575.1	Madison	6	SR 1171	FROM NC 209 TO EOP (MP 0.00 - MP 1.2)	3	2	2WU	NO	NO	1.2	18								12,672
		7	SR 1191	FROM SR 1116 TO EOP (MP 0.00 - MP 0.35)	3	2	2WU	NO	NO	0.35	18								3,696
		8	SR 1194	FROM US 25BUS TO US 25/70 (MP 0.00 - MP 0.4)	3	2	2WU	NO	NO	0.4	20								4,693
		9	SR 1121	FROM SR 1116 TO EOP (MP 0.00 - MP 0.37)	3	2	2WU	NO	NO	0.37	18								3,907
		10	SR 1391	FROM NC 213 EOP (MP 0.00 - MP 0.8)	3	2	2WU	NO	NO	0.8	18								8,448
		11	SR 1363	FROM NC 213 TO EOP (MP 0.00 - MP 0.7)	3	2	2WU	NO	NO	0.7	18								7,392
		12	SR 1611	FROM NC 213 TO NC 213 (MP 0.00 - MP 2.3)	3	2	2WU	NO	NO	2.3	20								26,987
		13	SR 1613	FROM NC 213 TO 1611 (MP 0.00 TO MP 0.8)	3	2	2WU	NO	NO	0.8	20								9,387
		14	SR 1634	FROM SR 1633 TO SR 1635 (MP 0.00 - MP 0.2)	3	2	2WU	NO	NO	0.2	18								2,112
		15	SR 1551	FROM SR 1552 TO EOP (MP 0.00 - MP 0.1)	3	2	2WU	NO	NO	0.1	18								1,056
		16	SR 1512	FROM SR 1513 TO EOP (MP 0.00 - MP 1.00)	3	2	2WU	NO	NO	1	18								10,560
		17	SR 1343	FROM SR 1318 TO EOP (MP 0.00 - MP 2.3)	3	2	2WU	NO	NO	2.3	18								24,288
		18	SR 1578	FROM SR 1611 TO EOP (MP 0.00 - MP 0.4)	3	2	2WU	NO	NO	0.4	18								4,224
		19	SR 1580	FROM SR 1576 TO SR 1582 (MP 0.00 - MP 3.3)	3	2	2WU	NO	NO	3.3	20								38,720
TOTAL FOR PROJ NO. 13SP.20575.1										14.22									158,142
GRAND TOTAL										24.5		174	12.26	1,096	6,793	408	1,830	47,403	205,545

PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10571.14, 13CR.20571.15 13SP.20575.1	21	21

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4810000000-E		4847000000-E		4905000000-N		
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	PAINT PAVEMENT MARKING LINES (4") WHITE	PAINT PAVEMENT MARKING LINES (4") YELLOW	POLYUREA PAVEMENT MARKING LINES (4") WHITE (HIGHLY REFLECTIVE ELEMENTS)	POLYUREA PAVEMENT MARKING LINES (4") YELLOW (HIGHLY REFLECTIVE ELEMENTS)	SNOWPLOWABLE PAVEMENT MARKERS		
										SF	LS	LF	LF	LF	LF	EA		
13CR.10571.14	Madison	1	NC 209	3.3 MILES FROM HAYWOOD CL TO 0.55 MILES NORTH OF SR 1165 (MP 3.30 - MP 8.45)	1	2	2WU	5.15	20	577	*			54,384	54,384	429		
TOTAL FOR PROJ NO. 13CR.10571.14								5.15		577	LS			54,384	54,384	429		
												108,768						
13CR.20571.15	Madison	2	SR 1135	FROM US 25/70 TO SR 1136 (MP 0.00 - MP 0.98)	1	2	2WU	0.98	22	575	*	20,698	20,698					
		3	SR 1535	FROM SR 1540 TO SR 1530 (MP 0.00 - MP 2.45)	2	2	2WU	2.45	20			51,744	51,744					
		4	SR 1587	FROM SR 1576 TO US 25/70 (MP 0.00 - MP 1.1)	2	2	2WU	1.1	18			23,232	23,232					
		5	SR 1570	FROM NC 213 TO SR 1569 (MP 0.00 - MP 0.6)	2	2	2WU	0.6	20			12,672	12,672					
TOTAL FOR PROJ NO. 13CR.20571.15								5.13				575	LS	108,346	108,346			
												216,692						
13SP.20575.1	Madison	6	SR 1171	FROM NC 209 TO EOP (MP 0.00 - MP 1.2)	3	2	2WU	1.2	18	1593	*	25,344	25,344					
		7	SR 1191	FROM SR 1116 TO EOP (MP 0.00 - MP 0.35)	3	2	2WU	0.35	18									
		8	SR 1194	FROM US 25BUS TO US 25/70 (MP 0.00 - MP 0.4)	3	2	2WU	0.4	20			8,448	8,448					
		9	SR 1121	FROM SR 1116 TO EOP (MP 0.00 - MP 0.37)	3	2	2WU	0.37	18									
		10	SR 1391	FROM NC 213 EOP (MP 0.00 - MP 0.8)	3	2	2WU	0.8	18									
		11	SR 1363	FROM NC 213 TO EOP (MP 0.00 - MP 0.7)	3	2	2WU	0.7	18									
		12	SR 1611	FROM NC 213 TO NC 213 (MP 0.00 - MP 2.3)	3	2	2WU	2.3	20			48,576	48,576					
		13	SR 1613	FROM NC 213 TO 1611 (MP 0.00 TO MP 0.8)	3	2	2WU	0.8	20			16,896	16,896					
		14	SR 1634	FROM SR 1633 TO SR 1635 (MP 0.00 - MP 0.2)	3	2	2WU	0.2	18									
		15	SR 1551	FROM SR 1552 TO EOP (MP 0.00 - MP 0.1)	3	2	2WU	0.1	18									
		16	SR 1512	FROM SR 1513 TO EOP (MP 0.00 - MP 1.00)	3	2	2WU	1	18			21,120	21,120					
		17	SR 1343	FROM SR 1318 TO EOP (MP 0.00 - MP 2.3)	3	2	2WU	2.3	18			48,576	48,576					
		18	SR 1578	FROM SR 1611 TO EOP (MP 0.00 - MP 0.4)	3	2	2WU	0.4	18									
		19	SR 1580	FROM SR 1576 TO SR 1582 (MP 0.00 - MP 3.3)	3	2	2WU	3.3	20			69,696	69,696					
TOTAL FOR PROJ NO. 13SP.20575.1								14.22				1,593	LS	238,656	238,656			
												477,312						
GRAND TOTAL									24.5			2,745	1	347,002	347,002	54,384	54,384	429
												694,004		108,768				