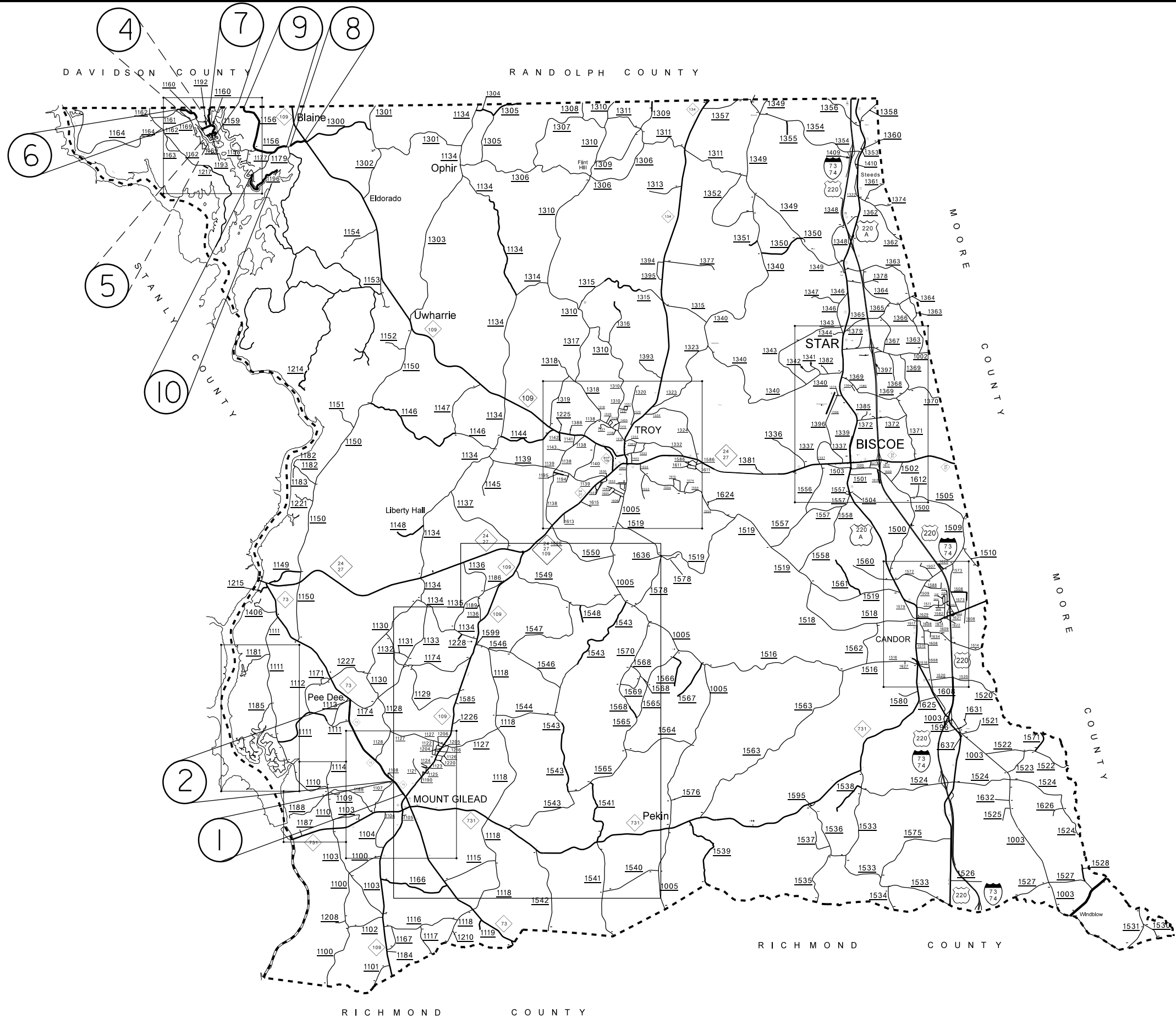


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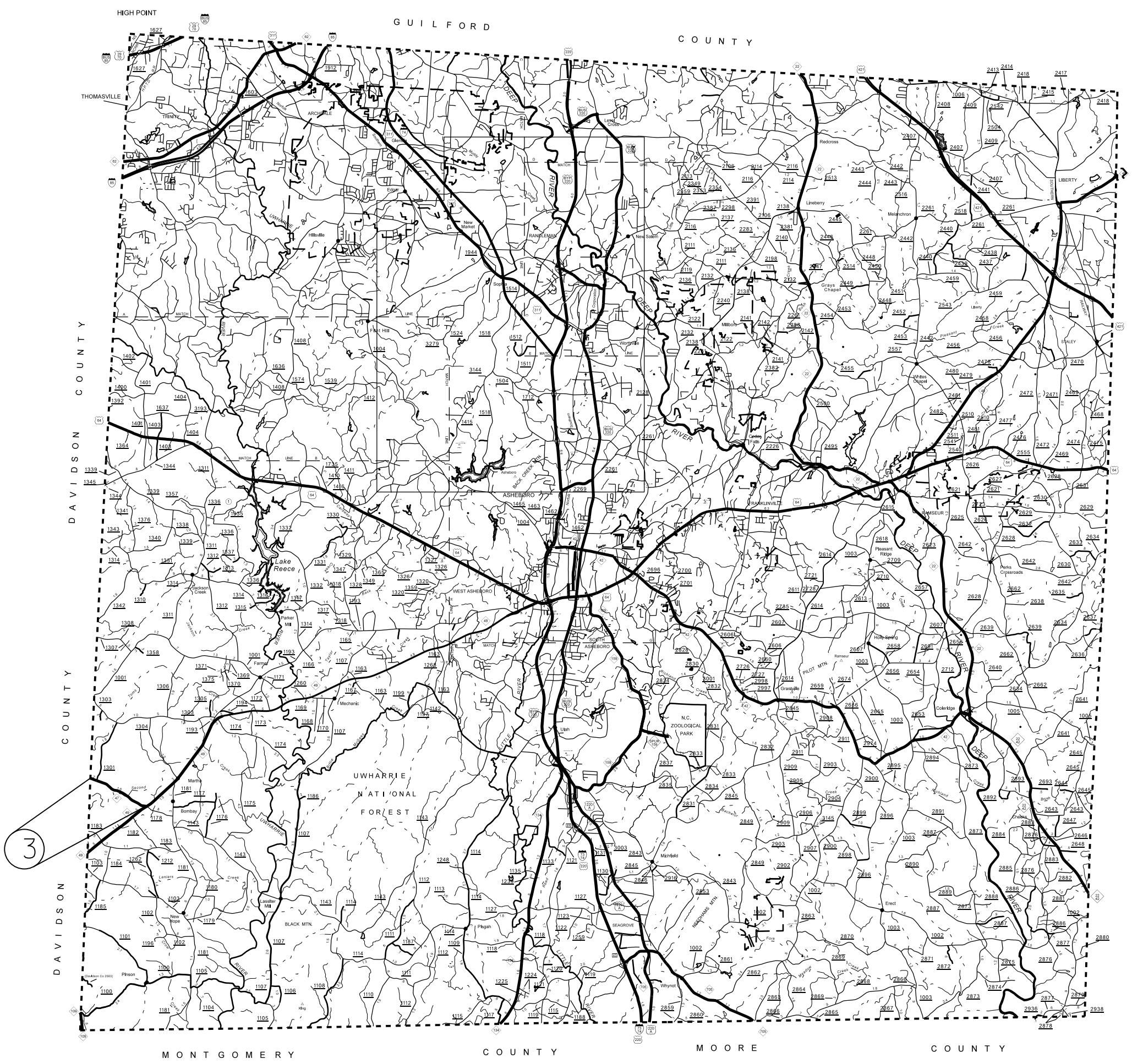


MONTGOMERY COUNTY
OVERALL RESURFACING
REQUEST MAP

06-JAN-2017 09:11:11 Montgomery-Randolph-March-2017-Submittal\Montgomery-2017-Map.dgn

040397

WBS ELEMENT	SHEET NO.
2017CPT.08.13.10621, 2017CPT.08.13.10761 2017CPT.08.13.20621	2

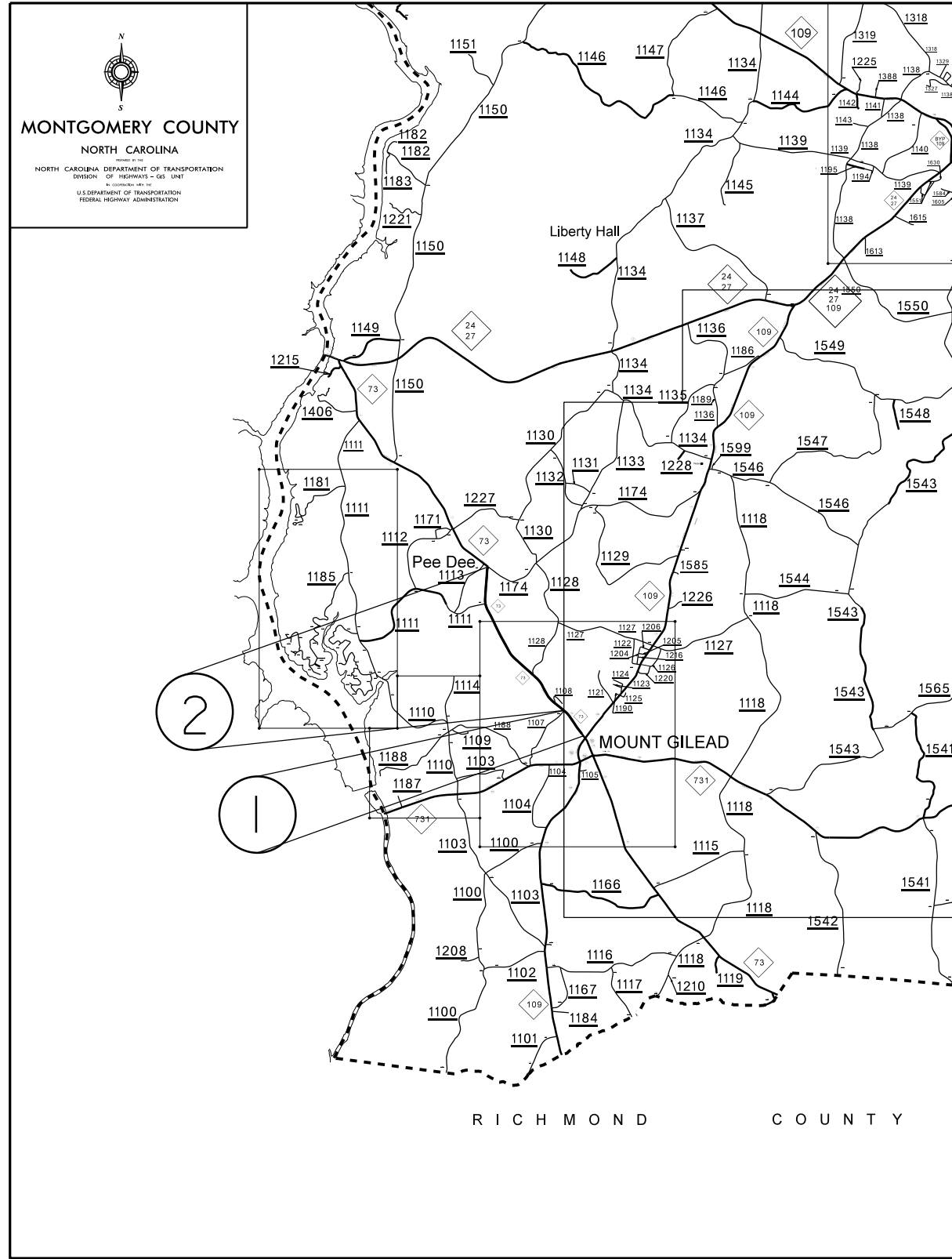


RANDOLPH COUNTY

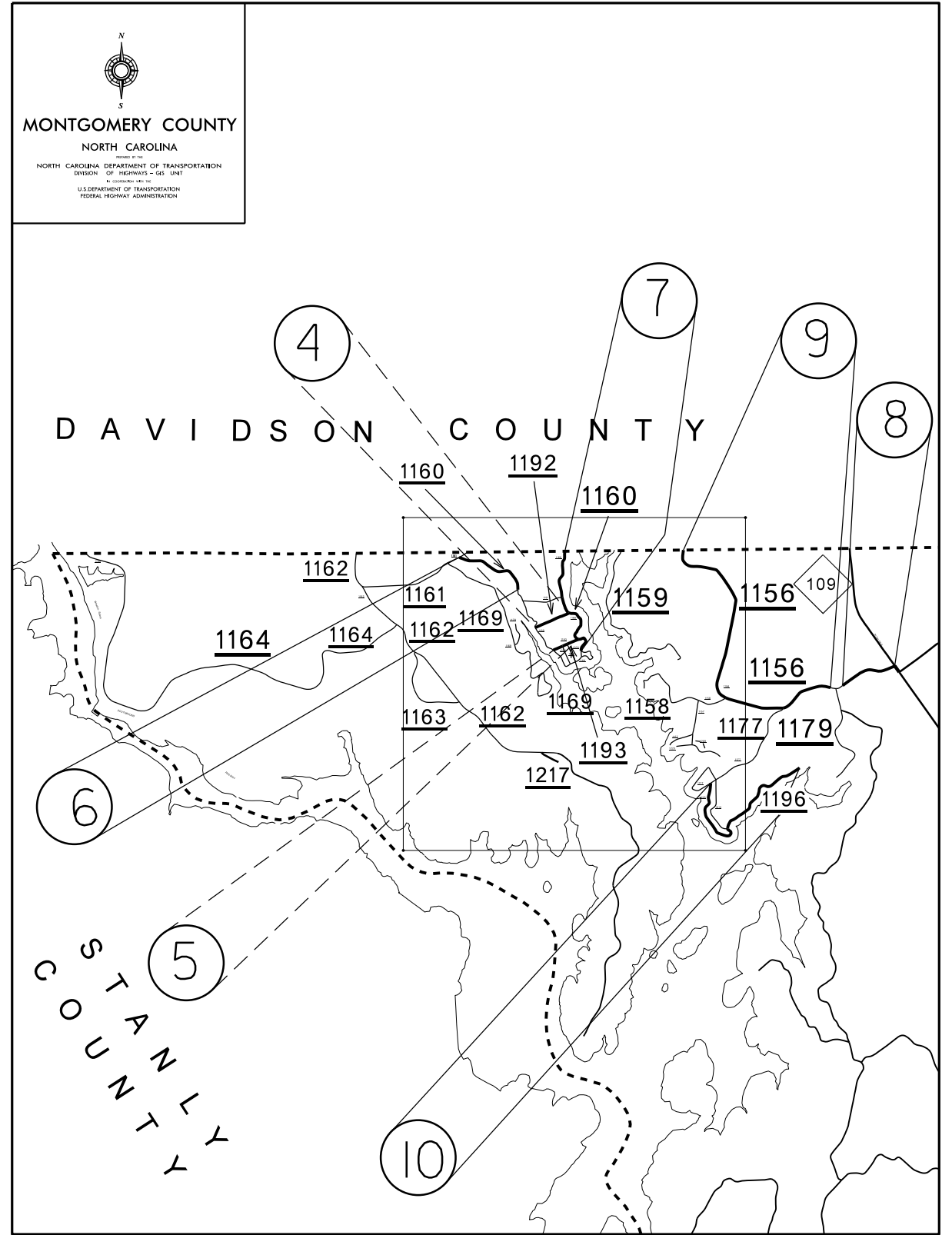
OVERAL RESURFACING REQUEST MAP

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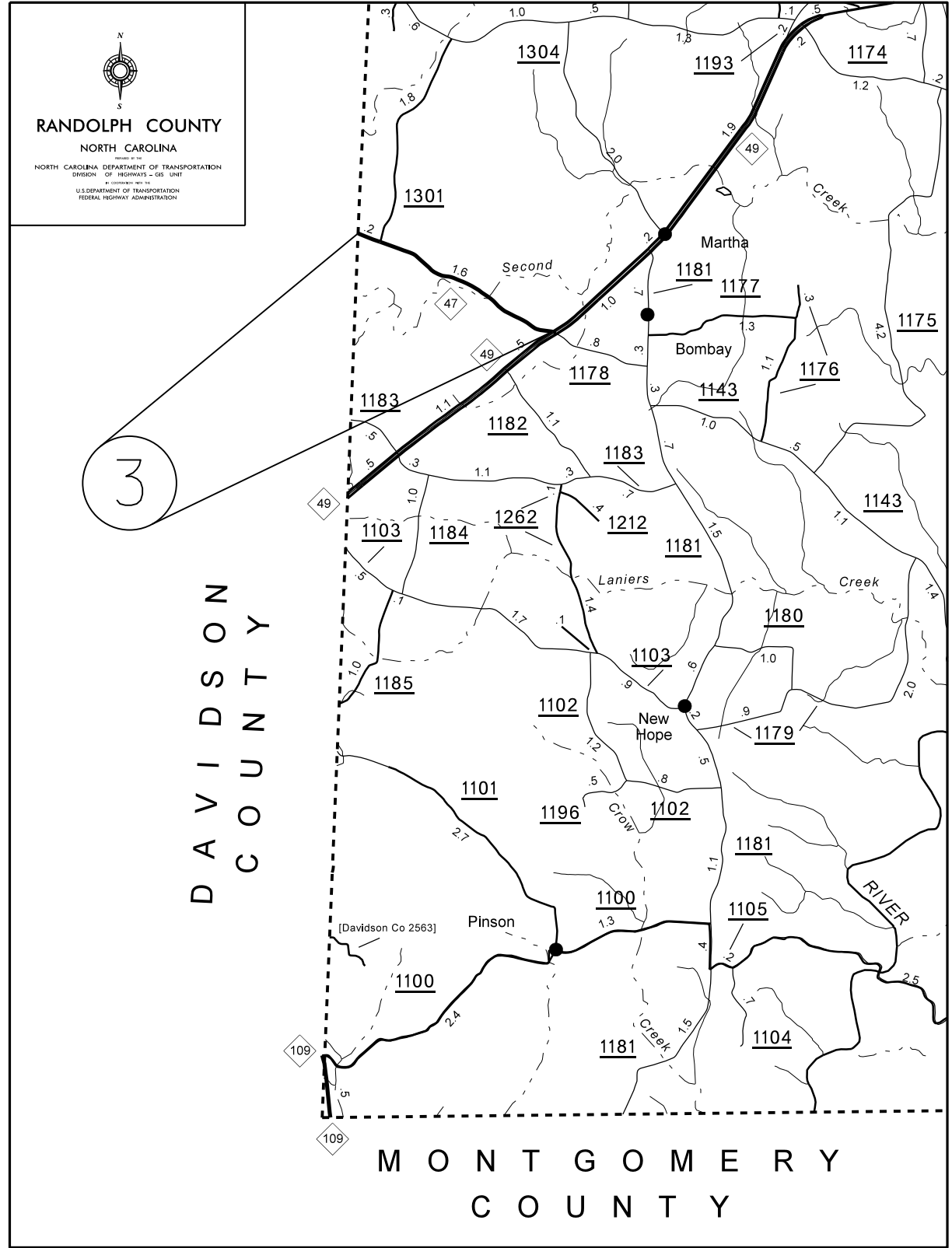
MAPS #1 & #2



MAPS #4 - #10

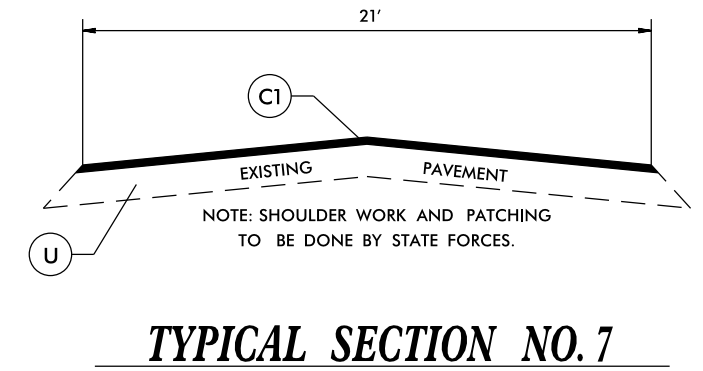
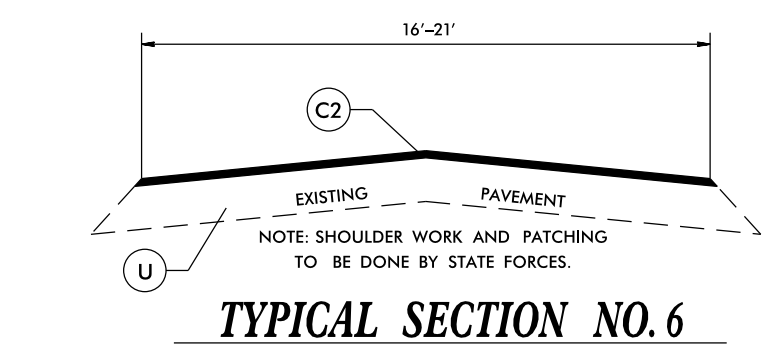
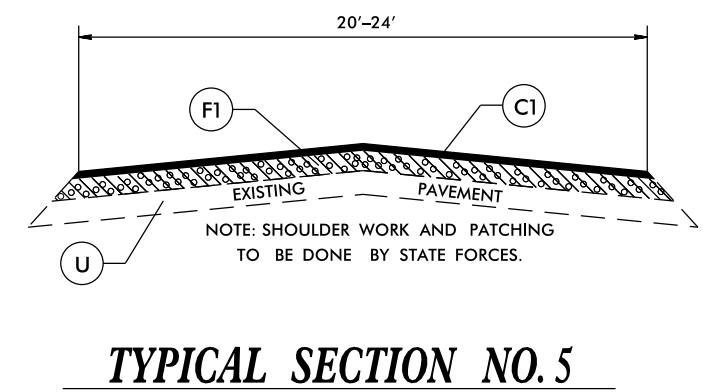
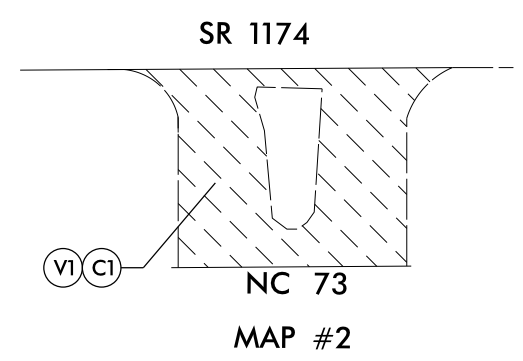
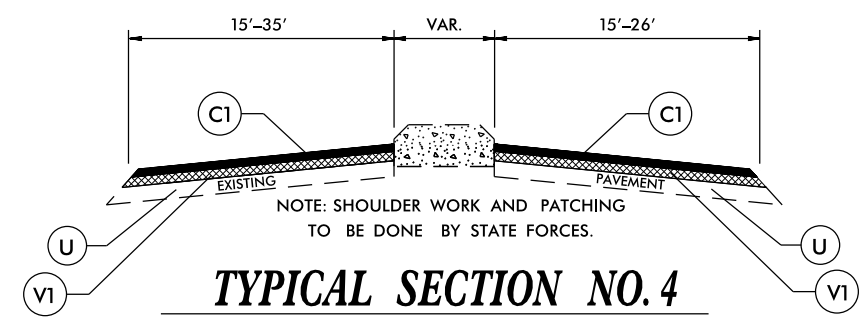
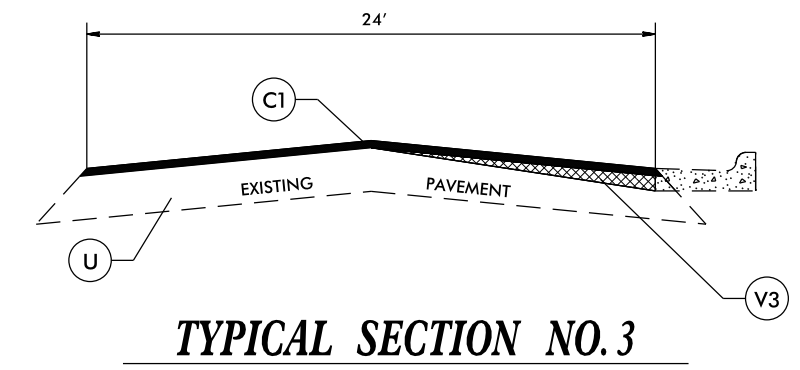
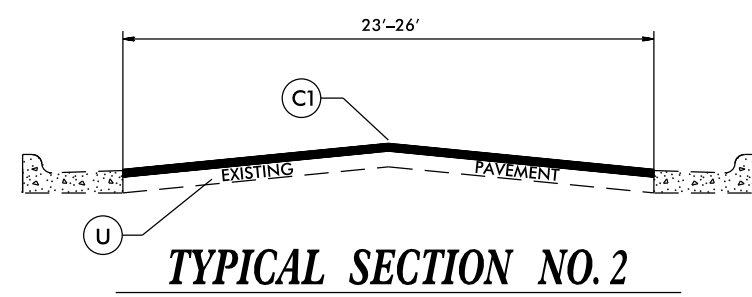
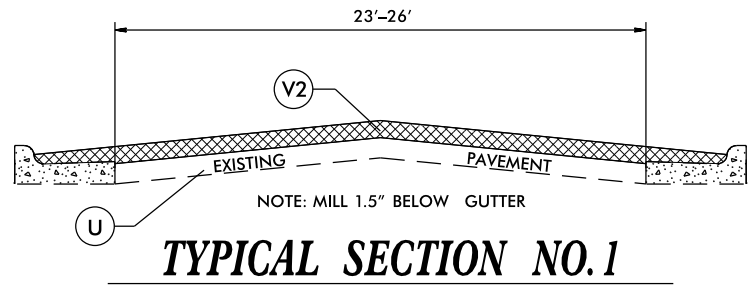


MAPS #3



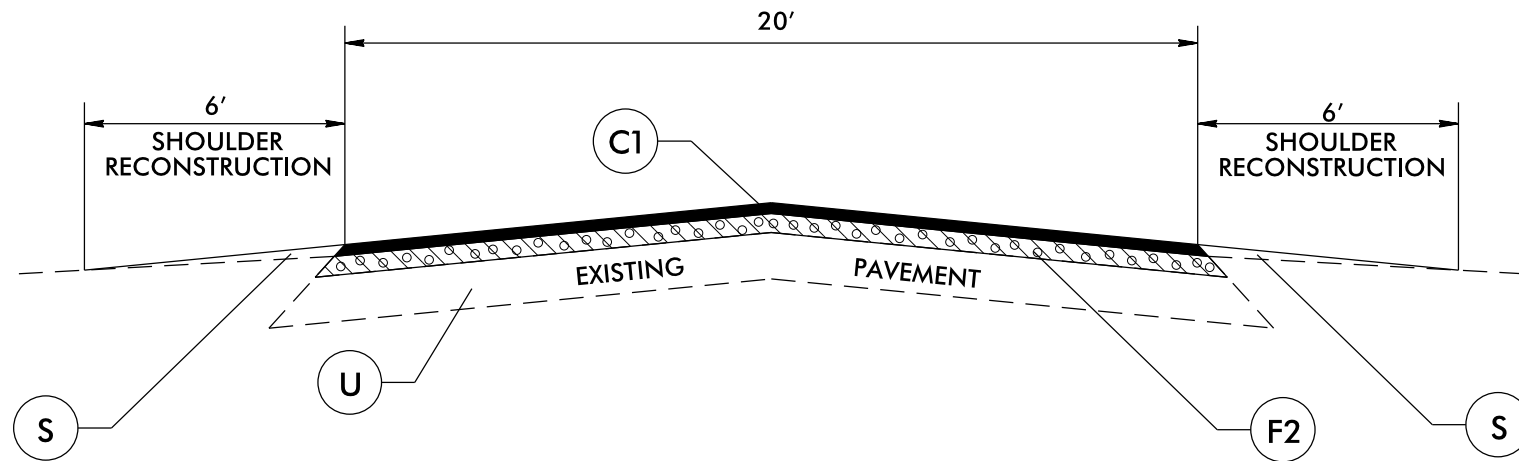
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MONTGOMERY CO. TYPICALS



PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
F1	PROPOSED ASPHALT SURFACE TREATMENT, MATCOAT #78 STONE
U	EXISTING PAVEMENT.
V1	1.5" MILLING
V2	3" MILLING
V3	0" - 1.5" MILLING

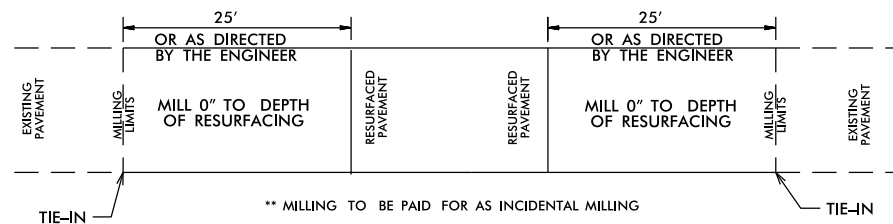
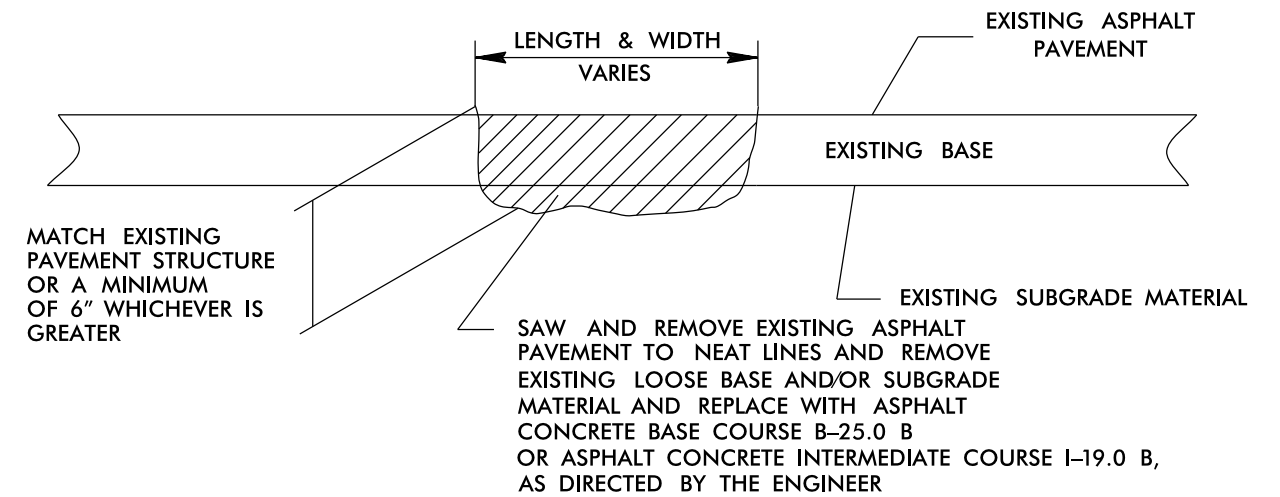
RANDOLPH CO. TYPICALS



TYPICAL SECTION NO. 8

DETAILS OF PATCHING EXISTING PAVEMENT PRIOR TO RESURFACING

DETAIL

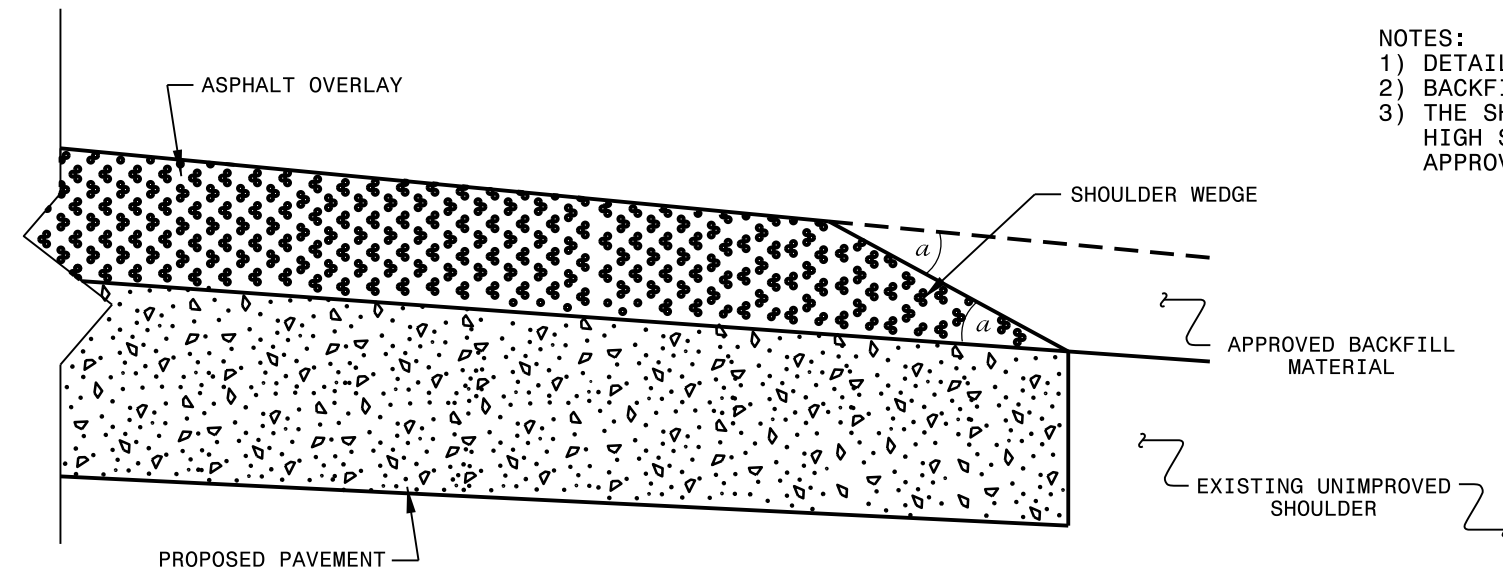


PAVEMENT TIE-IN DETAIL

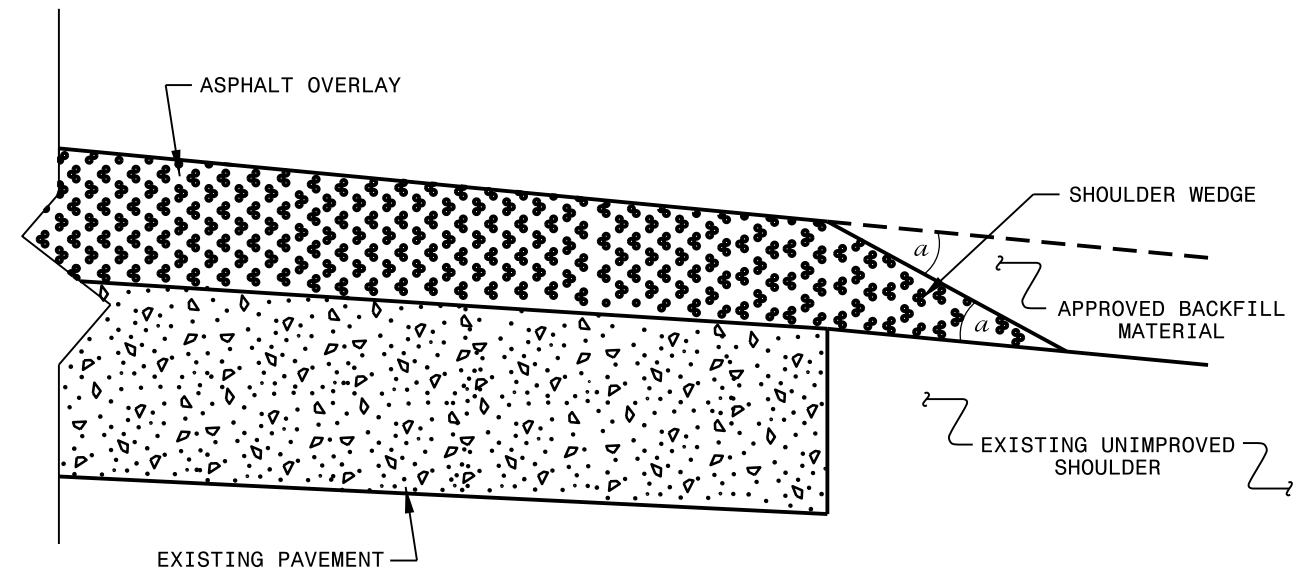
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
F2	PROPOSED ASPHALT SURFACE TREATMENT, MAT COAT WITH #67 STONE
S	AGGREGATE SHOULDER BORROW
U	EXISTING PAVEMENT.

NOTES:

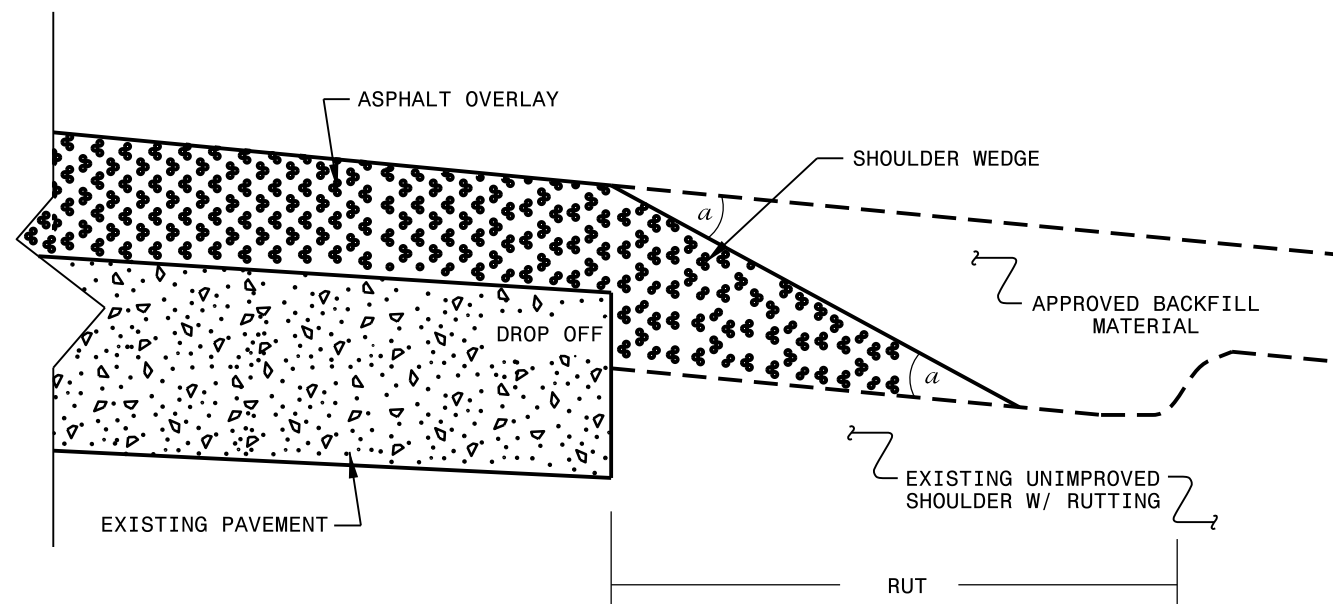
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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)

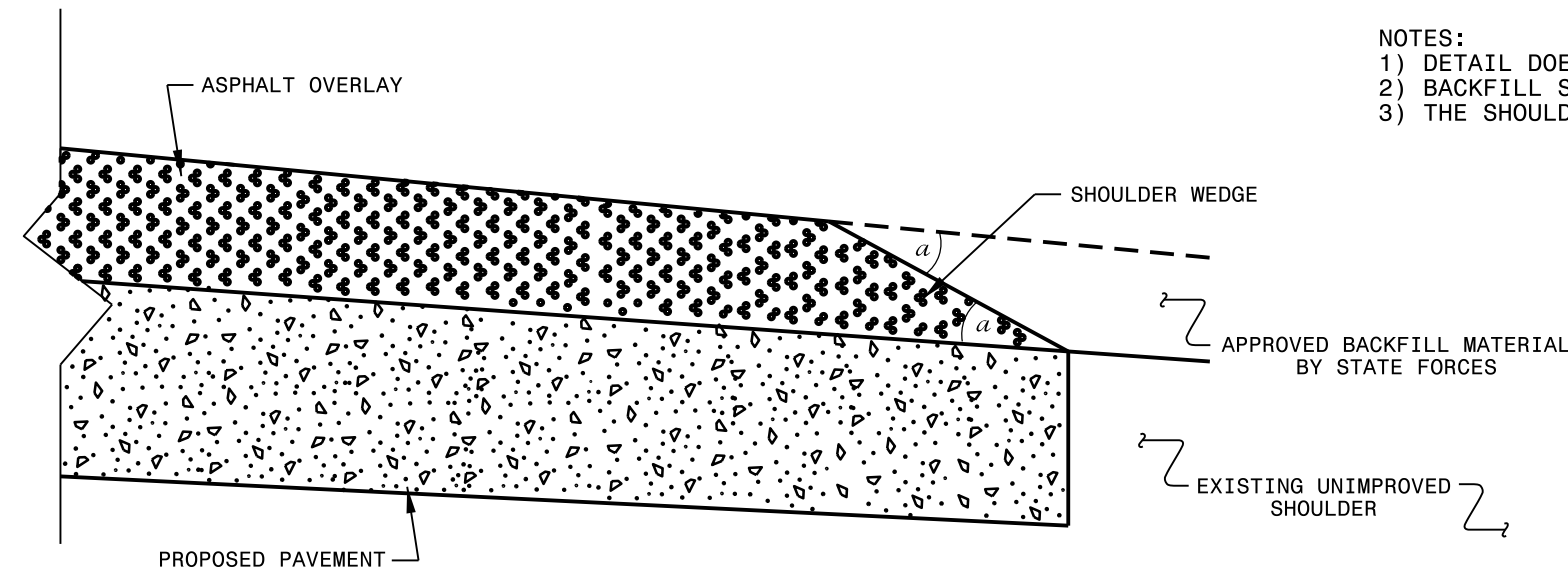
USE WITH TYPICAL SECTION NO. 8

- SHOULDER WEDGE ANGLE = 30°

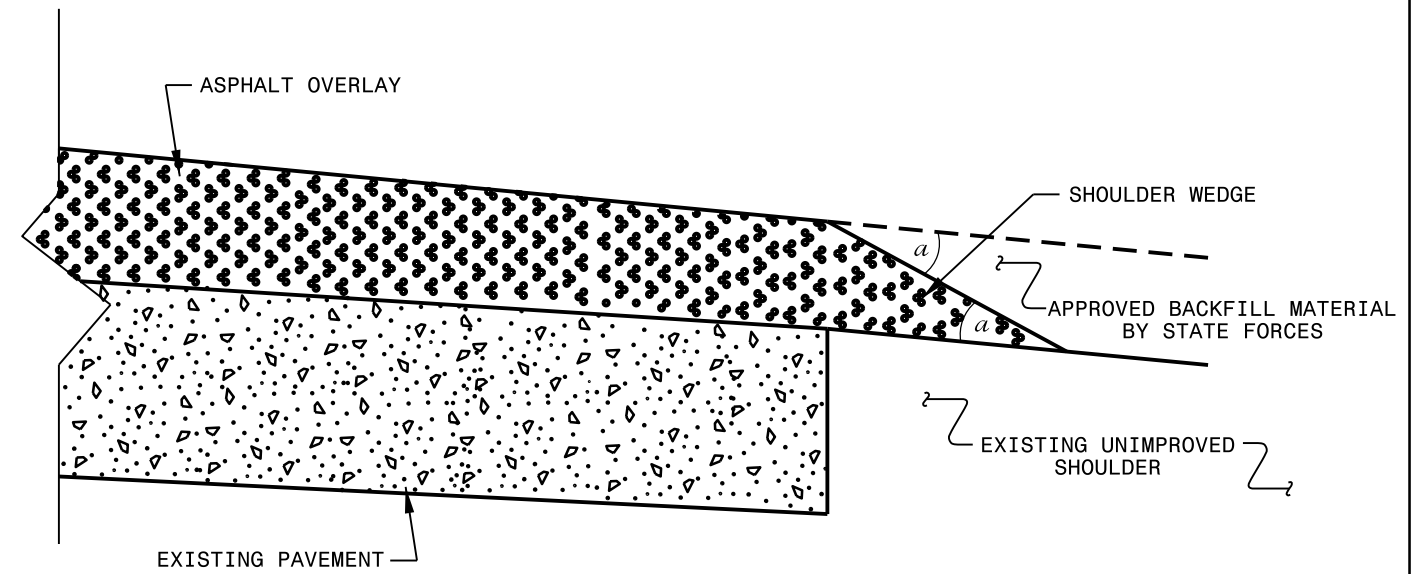
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950 FAX 919-250-4119	
SHOULDER WEDGE DETAILS	
ORIGINAL BY: T.SPELL	DATE: 7-19-11
MODIFIED BY:	DATE: 2/2/16
CHECKED BY:	DATE:
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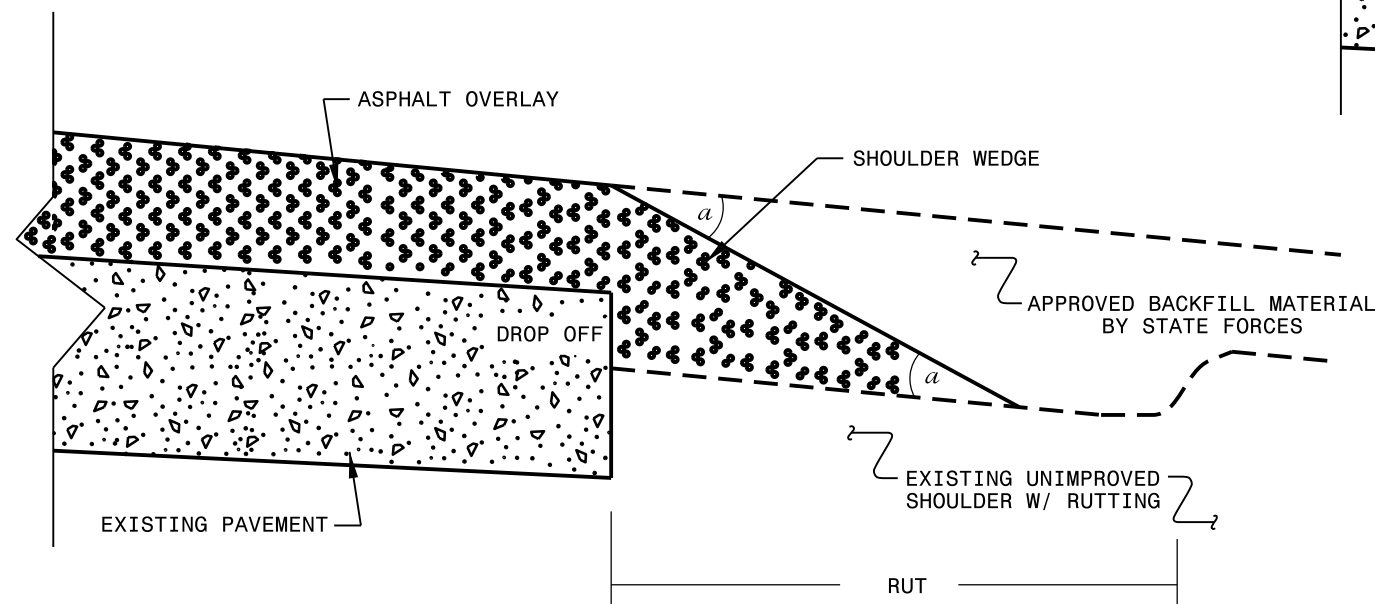
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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)

USE WITH TYPICAL SECTIONS NO. 4, 5, 6 AND 7

- 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:
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PROJECT NO.	SHEET NO.	TOTAL NO.
2017CPT.08.13.10621, 2017CPT.08.13.10761	9	
2017CPT.08.13.20621,		

SUMMARY OF QUANTITIES

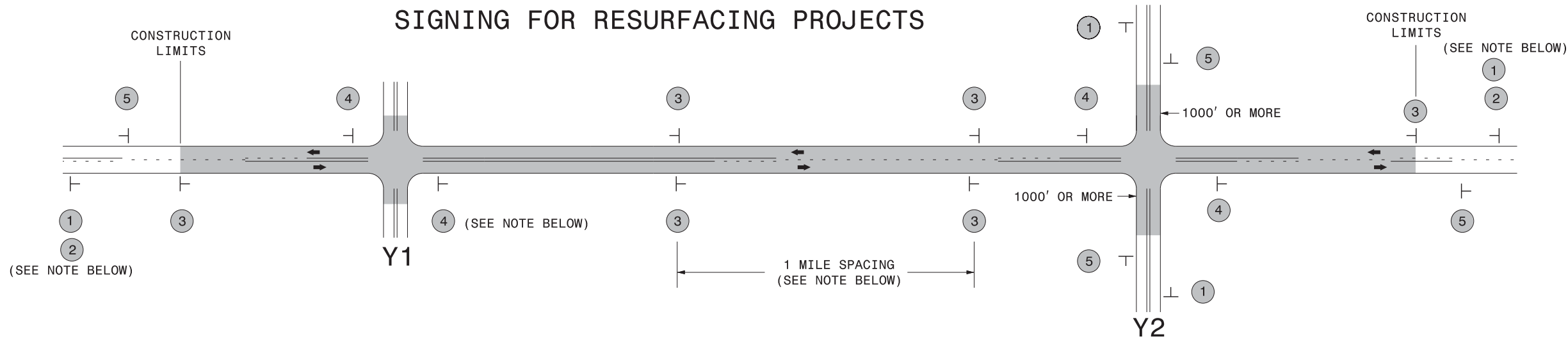
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	AGGREGATE SHOULDER BORROW TON	SHOULDER RECONSTRUCTION SMI	3" MILLING SY	1.5" MILLING SY	0" TO 1.5" MILLING SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TON	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ASPHALT SURFACE TREATMENT, MATCOAT, #78 STONE SY	ASPHALT SURFACE TREATMENT, MATCOAT, #67 STONE SY	EMULSION FOR ASPHALT SURFACE TREATMENT GAL	ADJUST MANHOLES EA
2017CPT.08.13.10621	Montgomery	1	NC 73	PVT JT N OF BRIDGE #40 (950 FT N OF NC 109) TO END CURB AND GUTTER AT SR 1108 (PARKERTOWN RD)	1-3	2	2WU	NO	NO	0.311	23-26			3,000		1,015		430		26					3
TOTAL FOR MAP NO. 1										0.311				3,000		1,015		430		26					3
2017CPT.08.13.10621	Montgomery	2	NC 73	FROM END C&G AT SR 1108 (PARKERTOWN RD) TO SR 1174 (PEE DEE RD)	4,5	2	2WU	NO	NO	2.866	20-24				5,778		333	3,300		198		34,500.00		12,075	
TOTAL FOR MAP NO. 2										2.866					5,778		333	3,300		198		34,500.00		12,075	
TOTAL FOR PROJ NO. 2017.08.13.10621										3.177				3,000	5,778	1,015	333	3,730		224		34,500.00		12,075	3
2017CPT.08.13.10761	Randolph	3	NC 47	NC 49 TO DAVIDSON CO LINE	8	2	2WU	NO	NO	1.774	20	492.00	3.55				167	1,935		116	245		20,900.00	8,400	
TOTAL FOR MAP NO. 3										1.774		492.00	3.55				167	1,935		116	245		20,900.00	8,400	
TOTAL FOR PROJ NO. 2017CPT.08.13.10761										1.774		492.00	3.55				167	1,935		116	245		20,900.00	8,400	
2017CPT.08.13.20621	Montgomery	4	SR 1192 (7TH AVE)	FROM SR 1160 (PINEHAVEN - E. CONNECTION) TO SR 1160 (PINEHAVEN - W. CONNECTION)	6	2	2WU	NO	NO	0.299	16						400		215	14					
TOTAL FOR MAP NO. 4										0.299							400		215	14					
2017CPT.08.13.20621	Montgomery	5	SR 1193 (11TH AVE)	FROM SR 1160 (PINEHAVEN - E CONNECTION) TO SR 1160 (PINEHAVEN - W CONNECTION)	6	2	2WU	NO	NO	0.22	16						178		160	11					
TOTAL FOR MAP NO. 5										0.22							178		160	11					
2017CPT.08.13.20621	Montgomery	6	SR 1160 (PINEHAVEN)	FROM PVT. JT S OF SR 1161 (BLAINE RD) TO SR 3399 (1ST AVE)	6	2	2WU	NO	NO	0.535	21						117		500	34					
TOTAL FOR MAP NO. 6										0.535							117		500	34					
2017CPT.08.13.20621	Montgomery	7	SR 1160 (PINEHAVEN)	FROM SR 1200 (WEAVER LN) TO DAVIDSON CO LINE	6	2	2WU	NO	NO	1.032	18						233		970	65					
TOTAL FOR MAP NO. 7										1.032							233		970	65					
2017CPT.08.13.20621	Montgomery	8	SR 1156 (BLAINE RD)	FROM NC 109 TO PVT. JT. E OF NEW BRIDGE #5	7	2	2WU	NO	NO	0.518	21						175	595		36					
TOTAL FOR MAP NO. 8										0.518							175	595		36					
2017CPT.08.13.20621	Montgomery	9	SR 1156 (BLAINE RD)	FROM PVT. JT W OF NEW BRIDGE #5 TO DAVIDSON CO LINE	7	2	2WU	NO	NO	2.515	21						233	2,880		173					
TOTAL FOR MAP NO. 9										2.515							233	2,880		173					
2017CPT.08.13.20621	Montgomery	10	SR 1196 (SHORELINE RD)	FROM SR 1177 (SHORELINE DR) TO DEAD END	6	2	2WU	NO	NO	1.549	18						100		1,245	83					
TOTAL FOR MAP NO. 10										1.549							100		1,245	83					
TOTAL FOR PROJ NO. 2017CPT.08.13.20621										6.668							1,436	3,475	3,090	416					
GRAND TOTAL										11.619		492.00	3.55	3,000	5,778	1,015	1,936	9,140	3,090	756	245	34,500.00	20,900.00	20,475	3

PROJECT NO.	SHEET NO.	TOTAL NO.
2017CPT.08.13.10621, 2017CPT.08.13.10761	10	
2017CPT.08.13.20621,		

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4685000000-E	4686000000-E			4695000000-E	4725000000-E	4810000000-E	4900000000-N	4905000000-N
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 120 M WHITE THERMO	4" X 120 M YELLOW THERMO	8" X 90 M YELLOW THERMO	THERMO LT ARROW 90 M	4" YELLOW PAINT	YELLOW & YELLOW MARKERS	SNOW PLOWABLE MARKERS Y & Y MARKERS	
										SF	LS	LF	LF	LF	LF	EA	LF	EA	EA	
2017CPT.08.13.10621	Montgomery	1	NC 73	PVT JT N OF BRIDGE #35 TO END CURB AND GUTTER AT SR 1108 (PARKERTOWN RD)	1-3	2	2WU	0.311	23-26	35				4,800	60	4	4,800		82	
TOTAL FOR MAP NO. 1										35			4,800	60	4	4,800		82		
2017CPT.08.13.10621	Montgomery	2	NC 73	FROM END C&G AT SR 1108 (PARKERTOWN RD) TO SR 1174 (PEE DEE RD)	4,5	2	2WU	2.866	20-24	325		30,838	100	30,838					189	
TOTAL FOR MAP NO. 2										325	*	30,838	100	30,838					189	
TOTAL FOR PROJ NO. 2017.08.13.10621										360	*	30,838	100	35,638	60	4	4,800		271	
													35,738							
2017CPT.08.13.10761	Randolph	3	NC 47	NC 49 TO DAVIDSON CO LINE	8	2	2WU	1.774	20	200		19,088	100	19,088					160	
TOTAL FOR MAP NO. 3										200	*	19,088	100	19,088					160	
TOTAL FOR PROJ NO. 2017CPT.08.13.10761										200	*	19,088	100	19,088					160	
													19,188							
2017CPT.08.13.20621	Montgomery	4	SR 1192 (7TH AVE)	FROM SR 1160 (PINEHAVEN - E CONNECTION) TO SR 1160 (PINEHAVEN - W CONNECTION)	6	2	2WU	0.299	16	40										
TOTAL FOR MAP NO. 4										40										
2017CPT.08.13.20621	Montgomery	5	SR 1193 (11TH AVE)	FROM SR 1160 (PINEHAVEN - E CONNECTION) TO SR 1160 (PINEHAVEN - W CONNECTION)	6	2	2WU	0.22	16	30										
TOTAL FOR MAP NO. 5										30										
2017CPT.08.13.20621	Montgomery	6	SR 1160 (PINEHAVEN)	FROM PVT. JT S OF SR 1161 (BLAINE RD) TO SR 3399 (1ST AVE)	6	2	2WU	0.535	21	60		5,757		5,757						
TOTAL FOR MAP NO. 6										60		5,757		5,757						
2017CPT.08.13.20621	Montgomery	7	SR 1160 (PINEHAVEN)	FROM SR 1200 (WEAVER LN) TO DAVIDSON CO LINE	6	2	2WU	1.032	18	120		11,104		11,104						
TOTAL FOR MAP NO. 7										120		11,104		11,104						
2017CPT.08.13.20621	Montgomery	8	SR 1156 (BLAINE RD)	FROM NC 109 TO PVT. JT. E OF NEW BRIDGE #5	7	2	2WU	0.518	21	60		5,574		5,574				34		
TOTAL FOR MAP NO. 8										60		5,574		5,574				34		
2017CPT.08.13.20621	Montgomery	9	SR 1156 (BLAINE RD)	FROM PVT. JT W OF NEW BRIDGE #5 TO DAVIDSON CO LINE	7	2	2WU	2.515	21	290		27,061	100	27,061				166		
TOTAL FOR MAP NO. 9										290		27,061	100	27,061				166		
2017CPT.08.13.20621	Montgomery	10	SR 1196 (SHORELINE RD)	FROM SR 1177 (SHORELINE DR) TO DEAD END	6	2	2WU	1.549	18	180										
TOTAL FOR MAP NO. 10										180	*									
TOTAL FOR PROJ NO. 2017CPT.08.13.20621										780	*	49,496	100	49,496				200		
													49,596							
GRAND TOTAL										11,619	1	99,422	300	104,222	60	4	4,800	200	431	
													104,522							

SIGNING FOR RESURFACING PROJECTS



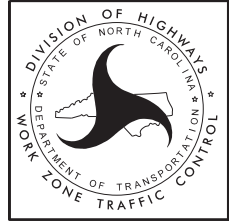
LEGEND	
	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

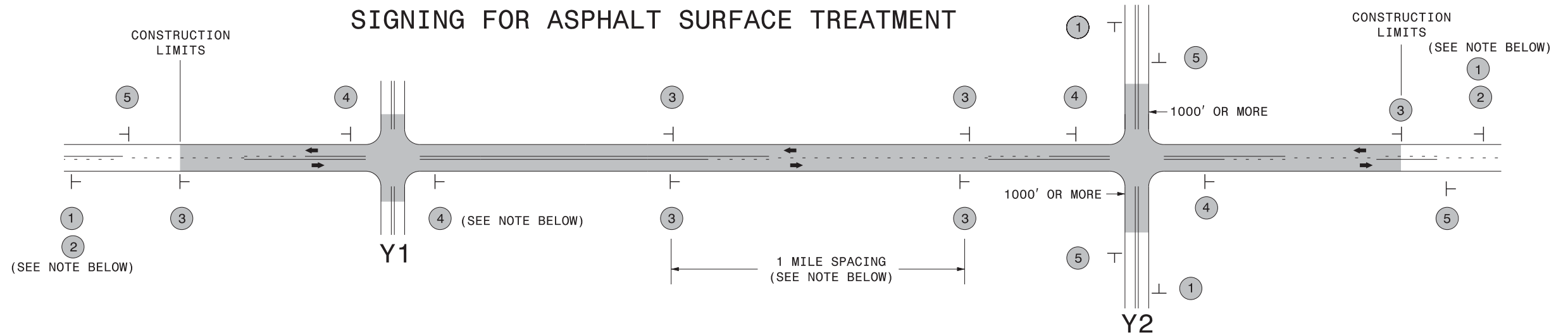
SIGNING NOTES AND PLACEMENT PER DIRECTION		
1 2		<p style="text-align: center;">NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p style="text-align: center;">WHEN 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;"> <p style="font-size: small;">W20-1 48" X 48"</p> </div> <div style="text-align: center;"> <p style="font-size: small;">W20-7 A 48" X 48"</p> </div> </div> <p style="text-align: center;">PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
3		
4		
5		

3/19/2015 C:\Users\rmgarrett\Downloads\Resurfacing_AdvWarn_2Ln (2).dgn User:rmgarrett



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

SIGNING FOR ASPHALT SURFACE TREATMENT

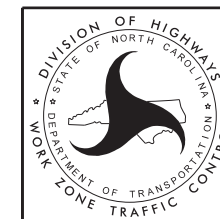


LEGEND	
	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

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 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	 W8-7 48" X 48" SP 48" X 48"	<p style="text-align: center;">ALTERNATE THE FOLLOWING TWO SIGNS:</p> <p style="text-align: center;">STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT".</p> <p style="text-align: center;">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 style="text-align: center;">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 style="text-align: center;">PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>



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