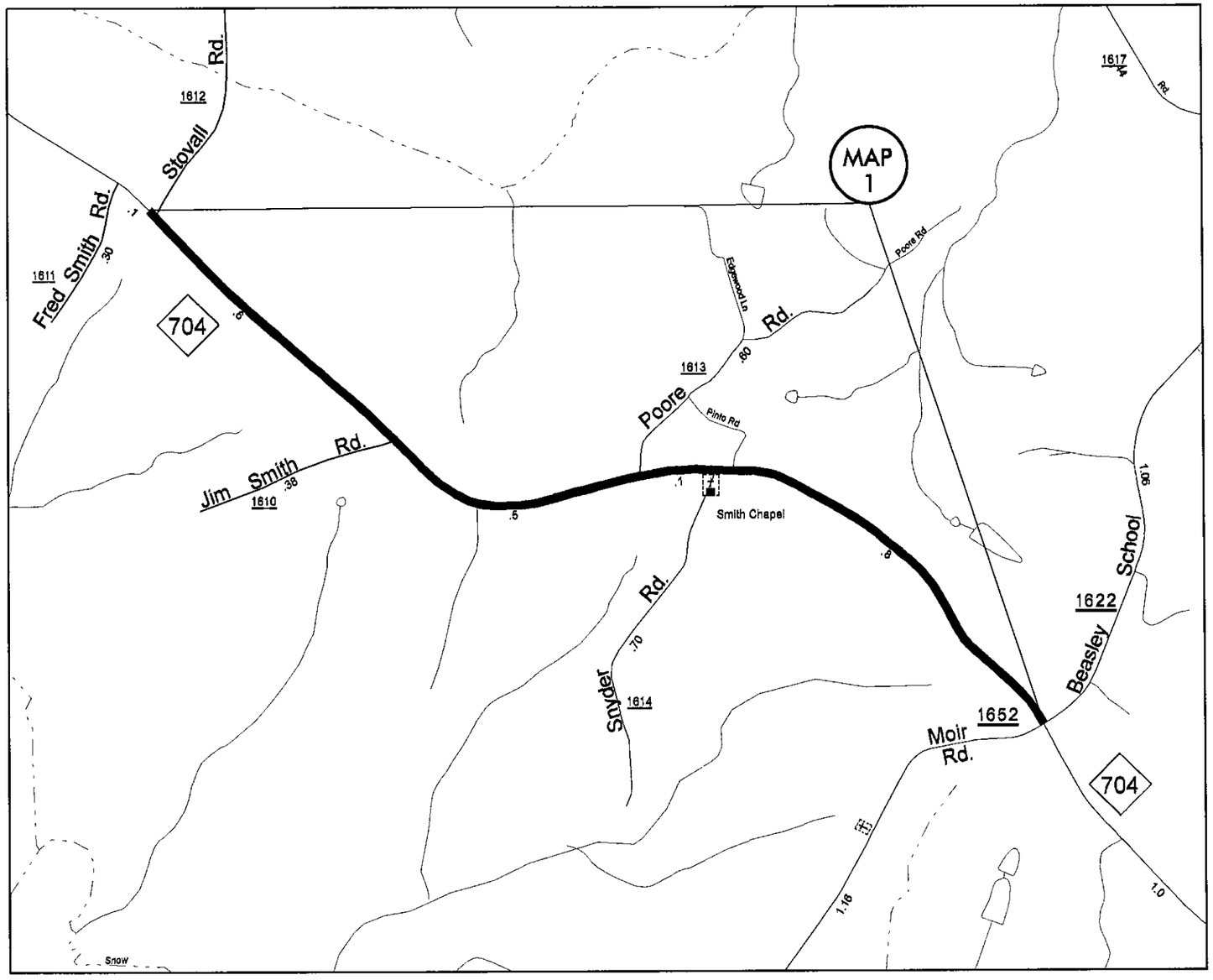
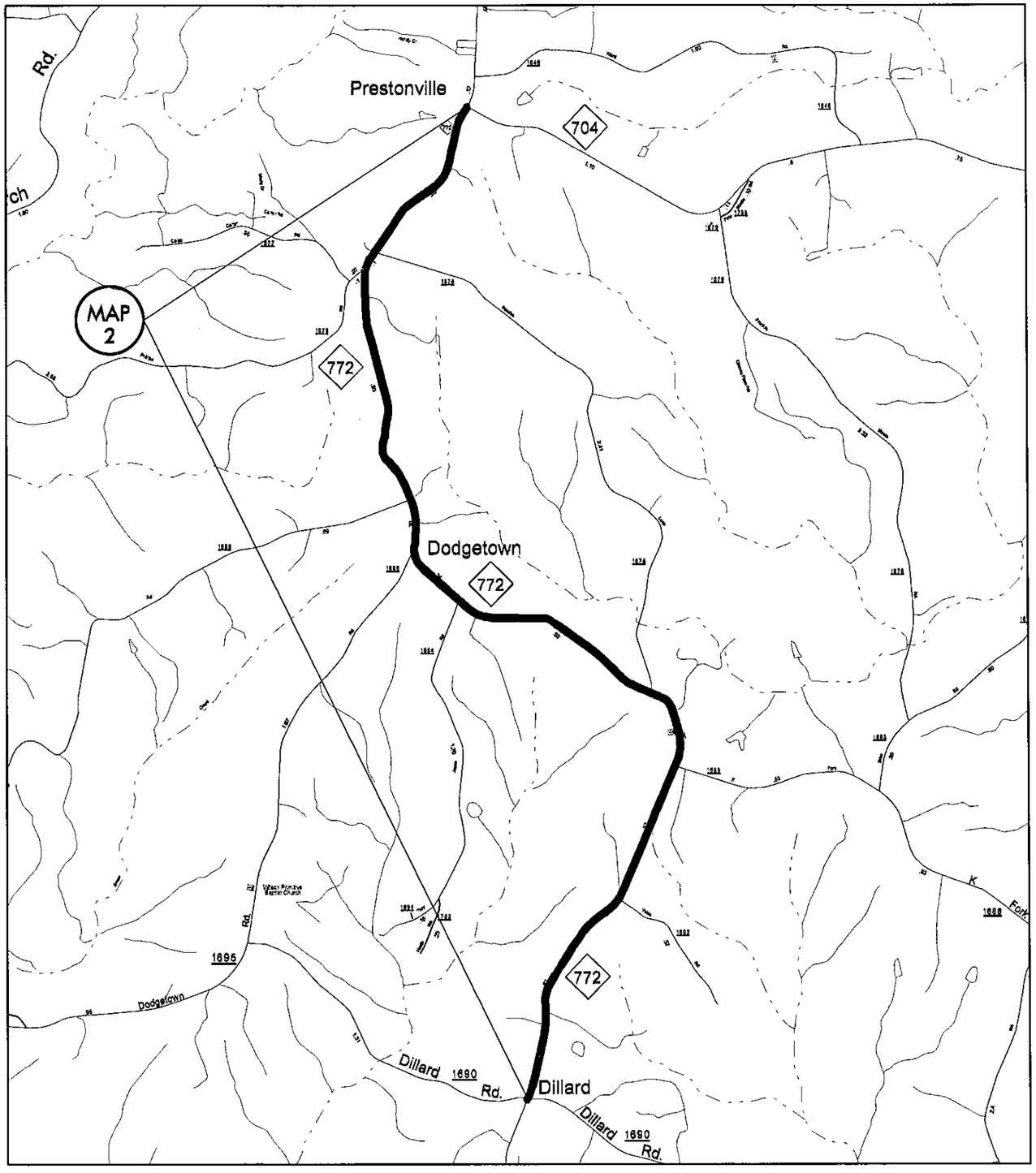
PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.34.10851 2017CPT.09.35.20851	1



MAP 1
NC 704
Patching by Contractor as directed by Engineer.
Tie In Mill.

STOKES COUNTY
NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.34.10851 2017CPT.09.35.20851	2



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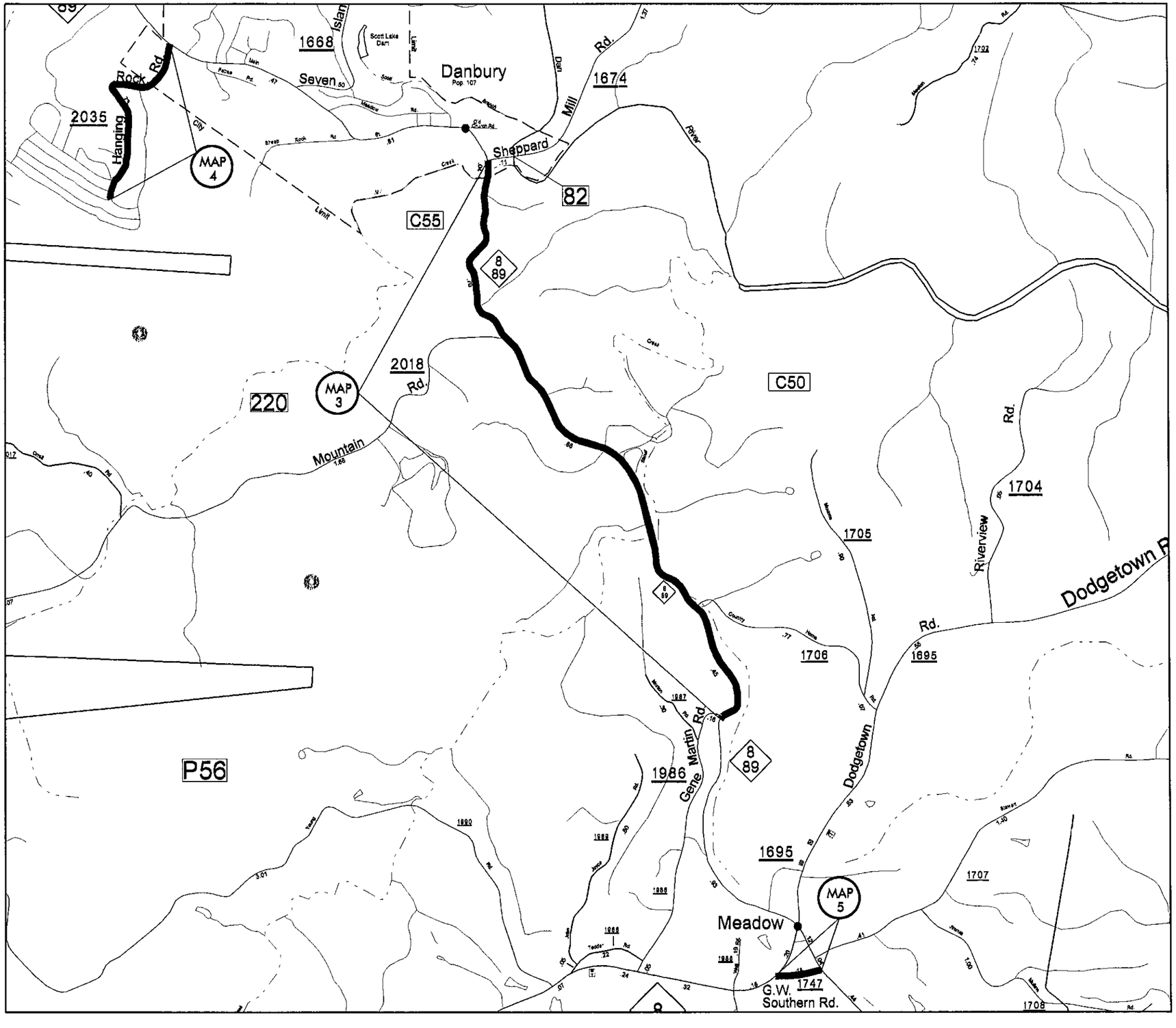
MAP 2
NC 772
Patching by Contractor as directed
by Engineer.
Tie In Mill.

STOKES COUNTY

NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.34.10851 2017CPT.09.35.20851	3



MAP 3
NC 8 /NC 89
Patching by Contractor as directed by Engineer.
Tie In Mill.

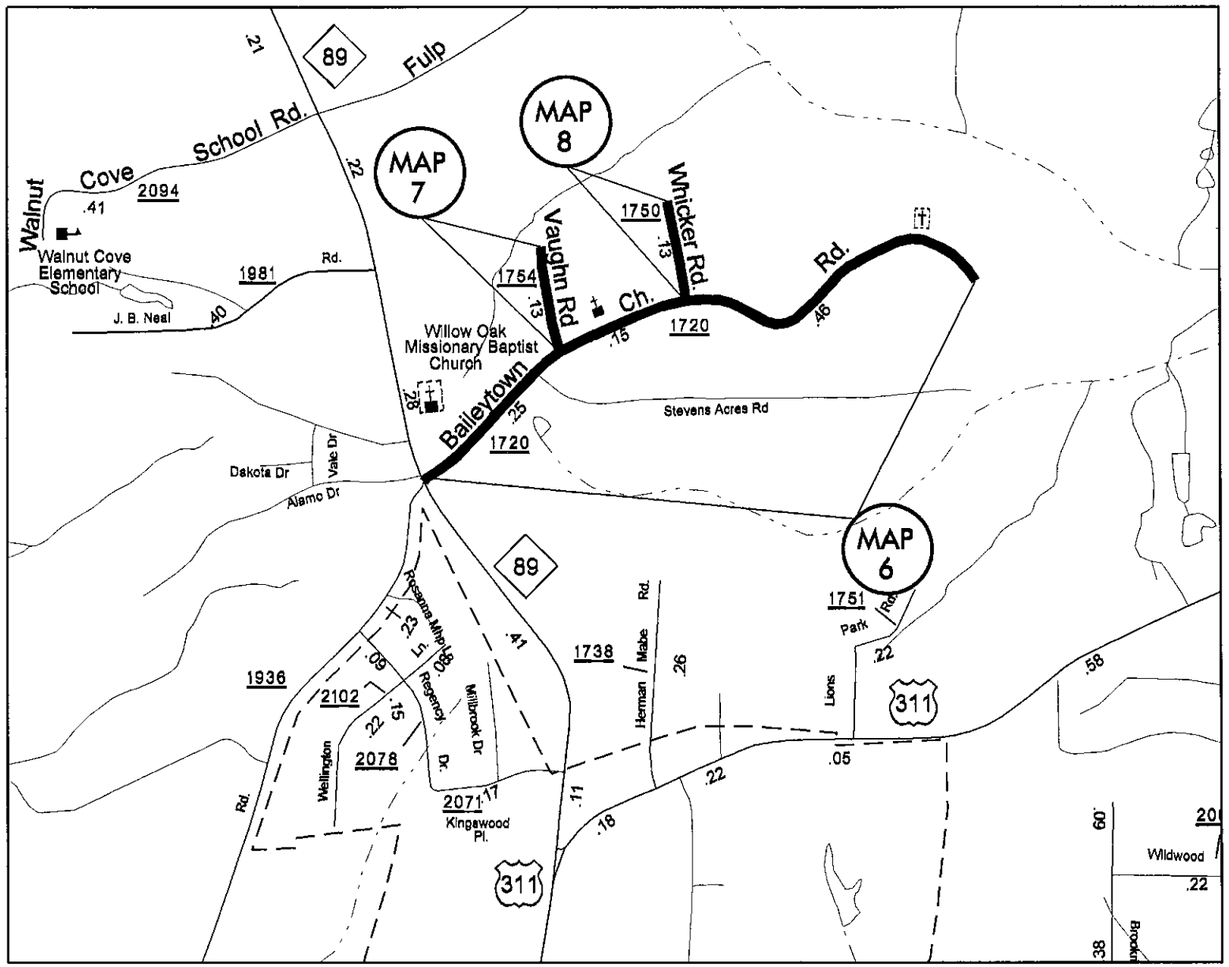
MAP 4
Hanging Rock Forest Rd. SR 2035
Patching by Contractor as directed by Engineer.
Tie In Mill.

MAP 5
G.W. Southern Rd. SR 1747
Mill 1½" Depth.
Patching by Contractor as directed by Engineer.

STOKES COUNTY

NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.34.10851 2017CPT.09.35.20851	4



MAP 6
Baileytown Church Road SR 1720
No Milling.
Patching by Contractor as directed by Engineer

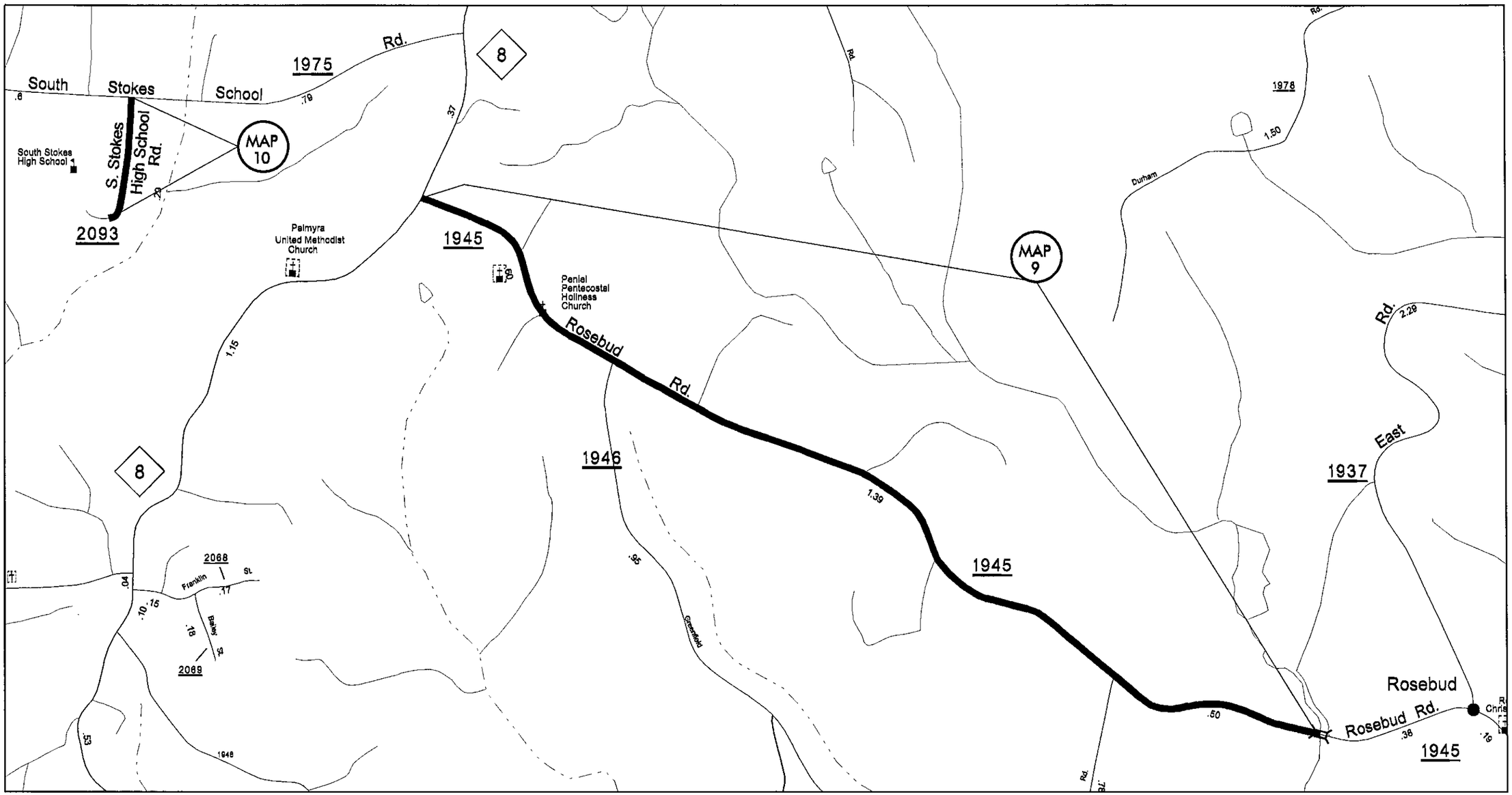
MAP 7
Vaughn Rd SR 1754
No Milling.
Patching by Contractor as directed by Engineer.
NO PAVEMENT MARKING.

Map 8
Whicker Rd SR 1750
No Milling.
Patching by Contractor as directed by Engineer.
NO PAVEMENT MARKING.

STOKES COUNTY

NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.34.10851 2017CPT.09.35.20851	5

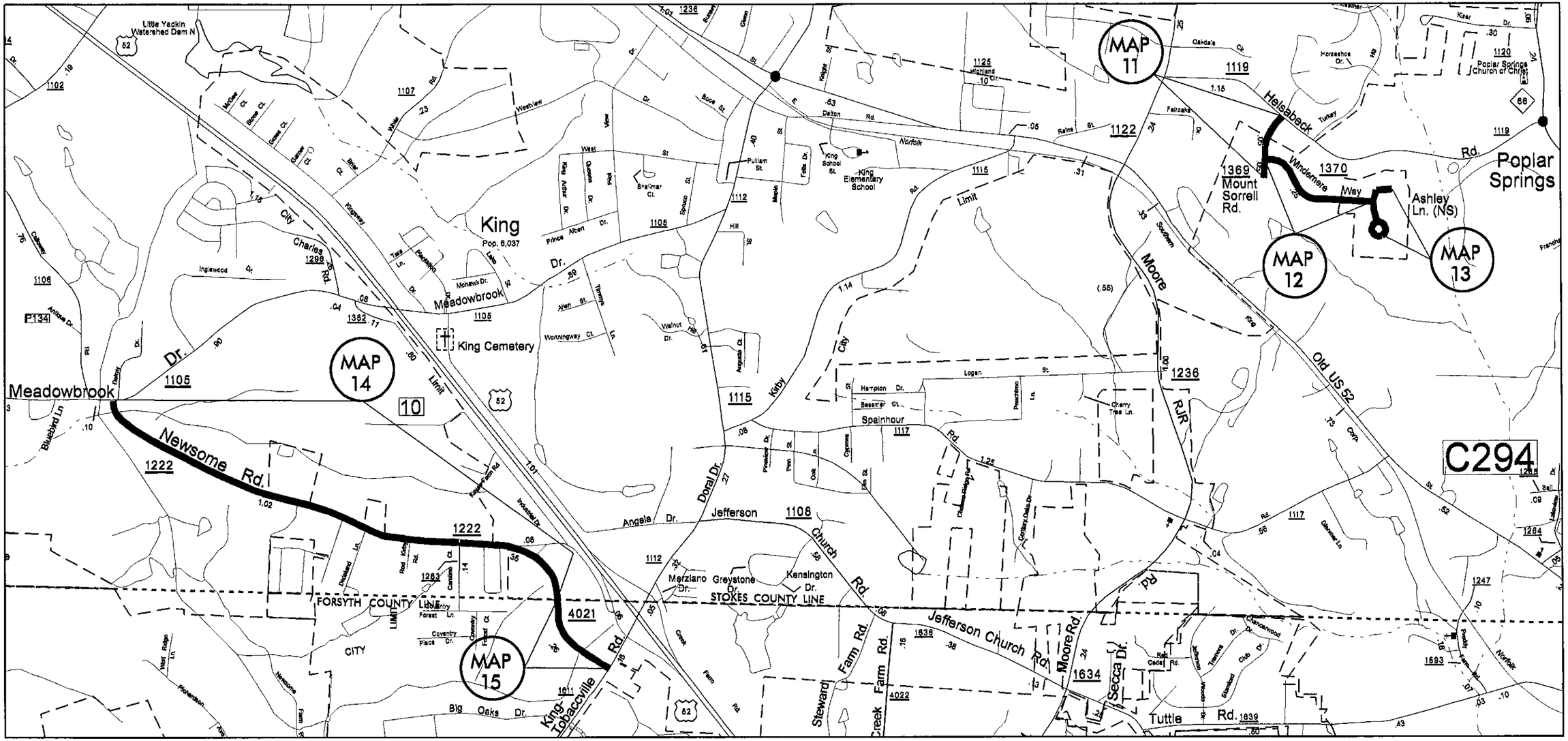


MAP 9
Rosebud Rd. SR 1945
Patching by Contractor as directed by Engineer.
Tie In Mill.

MAP 10
South Stokes High School Rd. SR 2093
Patching by Contractor as directed by Engineer.
Tie In Mill.

STOKES COUNTY
NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.34.10851 2017CPT.09.35.20851 2017CPT.09.31.20341	6



MAP 14
Newsome Road SR 1222 (Stokes County)
Butt Mill Map end at Meadowbrook Dr.
Patching by Contractor as directed by Engineer.

MAP 15
Newsome Road SR 4021 (Forsyth County)
Begin Incidental Mill at Main St.
50 feet from behind stop bar.
Curb Mill from end of Incidental Mill to end of curb.
Patching by Contractor as directed by Engineer.

MAP 11
Mt. Sorrell Rd. SR 1369
Mill 1½"
Pave back with 1½" SF9.5A
NO PAVEMENT MARKINGS.

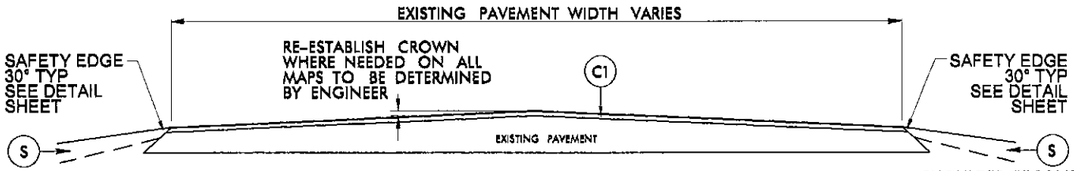
MAP 12
Windermere Way. SR 1370
Mill 1½"
Pave back with 1½" SF9.5A
NO PAVEMENT MARKINGS.

MAP 13
Ashley Ln. (NS)
Mill 1½"
Pave back with 1½" SF9.5A
NO PAVEMENT MARKINGS.

STOKES COUNTY

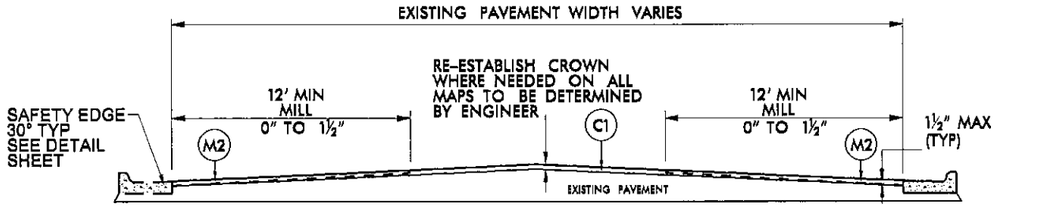
NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.34.10851 2017CPT.09.35.20851 2017CPT.09.31.20341	7

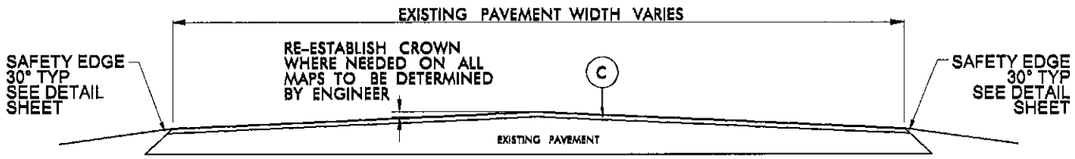


TYPICAL SECTION NO. 1

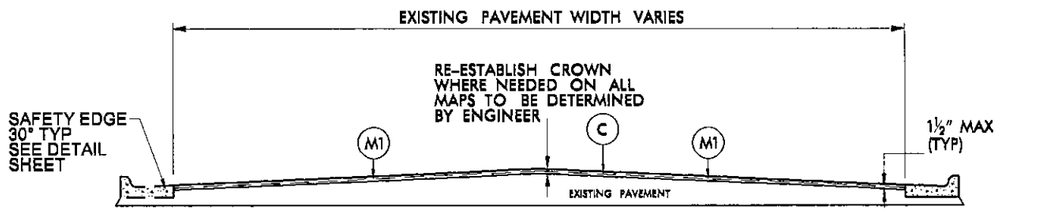
MAP 1 NC 704	MAP 9 ROSEBUD RD. SR 1945
MAP 2 NC 772	MAP 10 SOUTH STOKES HIGH RD. SR 2093
MAP 3 NC 8/NC 89	MAP 14 NEWSOME RD. SR 1222
MAP 4 HANGING ROCK PARK RD. SR 2015	MAP 15 NEWSOME RD. SR 4021 (Forsyth County)



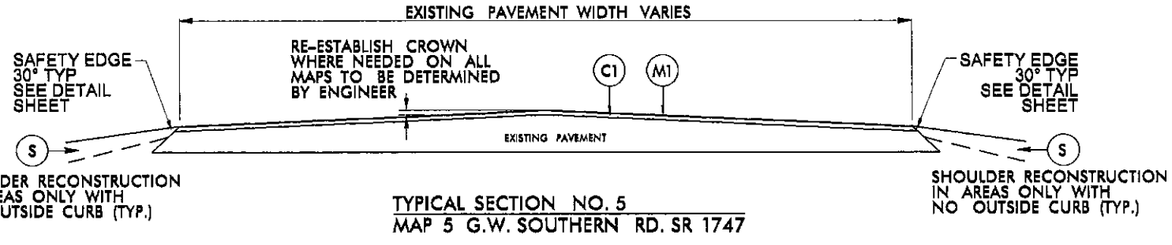
TYPICAL SECTION NO. 2
MAP 15 NEWSOME RD. SR 4021



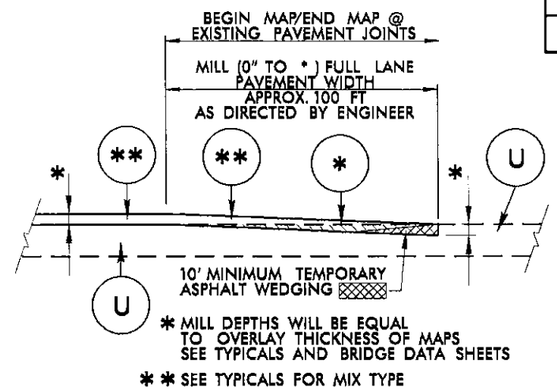
TYPICAL SECTION NO. 3
MAP 6 Bailey town Church Rd. SR 1720
MAP 7 Vaughn Rd. SR 1754
MAP 8 Whicker Rd. SR 1750



TYPICAL SECTION NO. 4
MAP 11 Mt. Sorrel Rd.. SR 1369
MAP 12 Windermere Way SR 1370
MAP 13 Ashley Lane (NS)



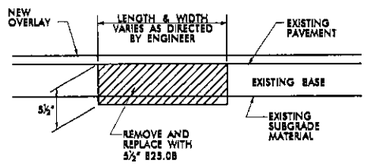
TYPICAL SECTION NO. 5
MAP 5 G.W. SOUTHERN RD. SR 1747



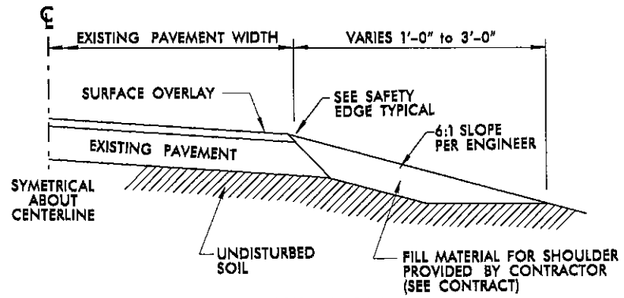
* MILL DEPTHS WILL BE EQUAL TO OVERLAY THICKNESS OF MAPS SEE TYPICALS AND BRIDGE DATA SHEETS

** SEE TYPICALS FOR MIX TYPE

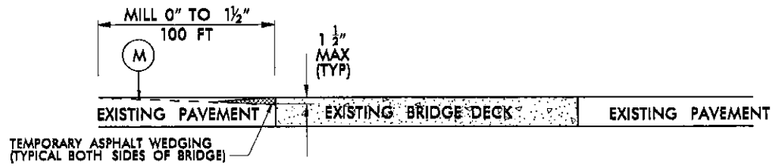
INCIDENTAL TIE-IN MILLING DETAIL



PATCHING DETAIL



SHOULDER RECONSTRUCTION



INCIDENTAL MILLING BRIDGE APPROACHES
(SEE BRIDGE DATA SHEET)

PAVEMENT SCHEDULE	
C	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD
M	INCIDENTAL MILLING
M1	MILL ASPHALT PAVEMENT, 1½" DEPTH
M2	MILL ASPHALT PAVEMENT, 0-1½" DEPTH
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT

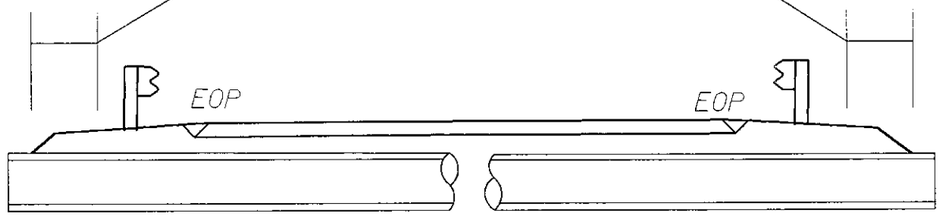
PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.34.10851 2017CPT.09.35.20851 2017CPT.09.31.20341	8

EROSION CONTROL DETAIL

NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle or Silt Fence

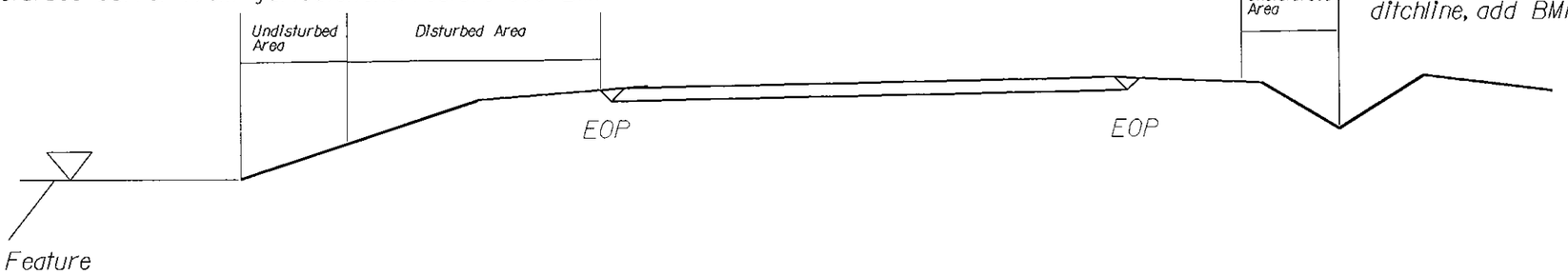
< 5' - 10' Undisturbed buffer add BMP



Pipe/Culvert

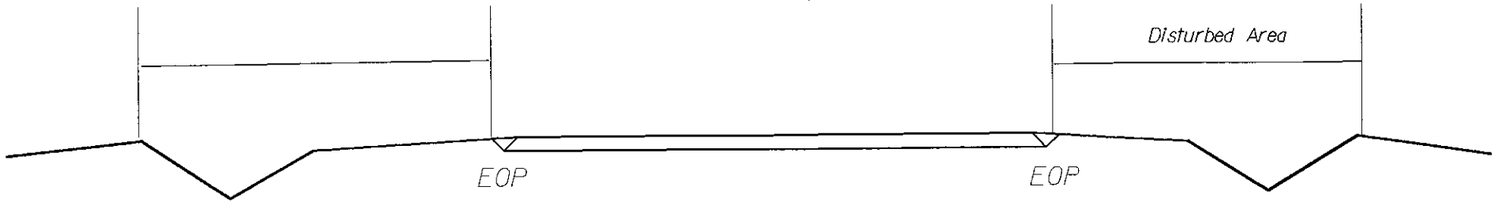
< 5' - 10' Undisturbed buffer from jurisdictional feature add BMP

< 5' - 10' Undisturbed buffer from ditchline, add BMP

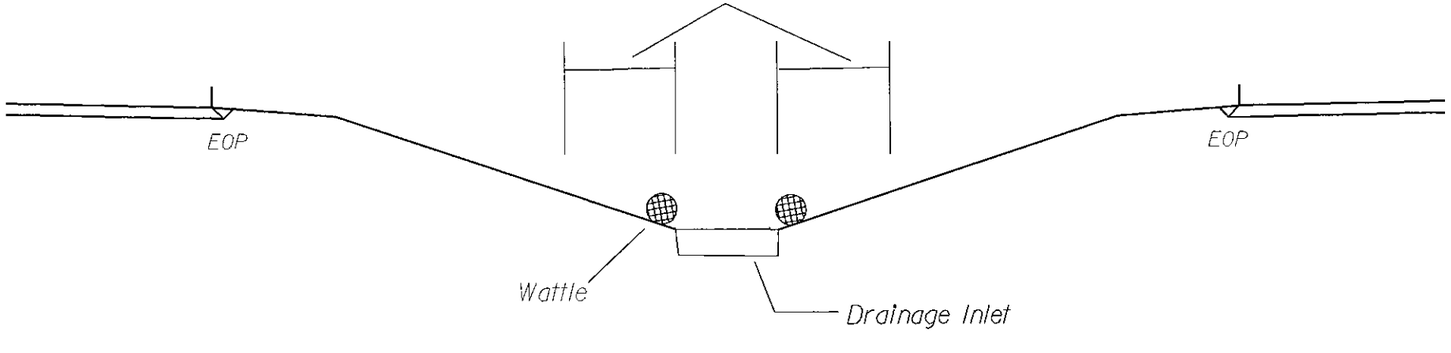


Jurisdictional Feature

Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed

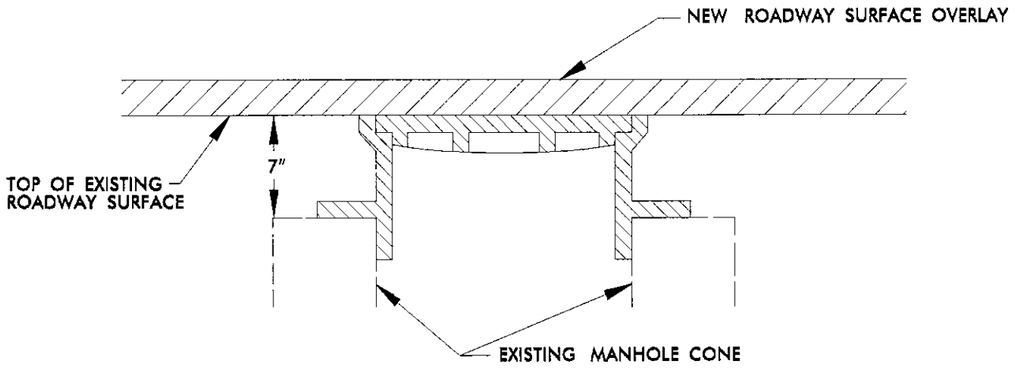


< 5' - 10' Undisturbed buffer from inlet, add wattle

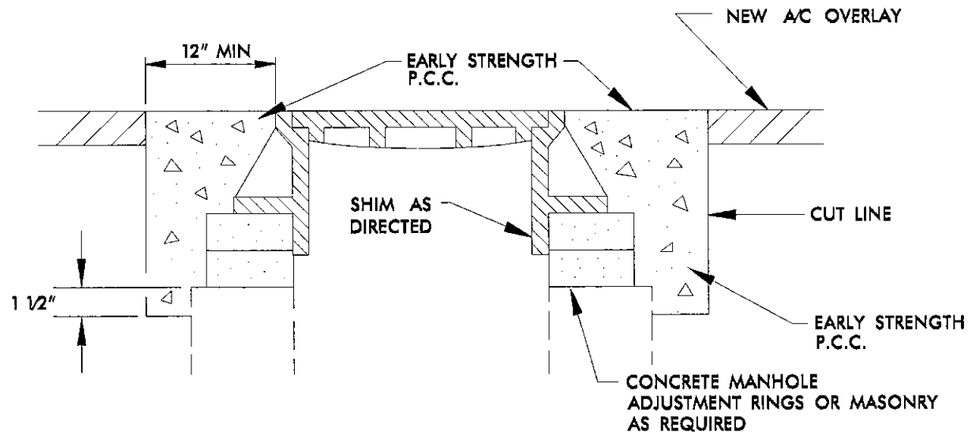


NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.34.10851 2017CPT.09.35.20851 2017CPT.09.31.20341	9



STEP 1



STEPS 2,3, & 4

STEP 1 COVER EXISTING MANHOLE WITH APPROVED MATERIAL AND CONSTRUCT OVERLAY ACROSS TOP OF MANHOLE

STEP 2 SAW CUT EXCAVATION AROUND MANHOLE 12" MIN. FROM MANHOLE FRAME.

STEP 3 RAISE MANHOLE FRAME RINGS TO FINISH PAVEMENT PROFILE AND CROSS SLOPE.

STEP 4 BACKFILL WITH EARLY STRENGTH P.C.C. TO DEPTHS AS DIRECTED.

MANHOLE ADJUSTMENT DETAIL

CONSTRUCTION NOTES:

1. ALL QUANTITIES ARE "ESTIMATED" AS INDICATED IN THE "SUMMARY OF QUANTITIES".

2. CONSTRUCTION SHALL PROGRESS IN PHASES, IN THE ORDER INDICATED BELOW:

   PHASE 1 – MILLING AND PATCHING (WHEN REQUIRED)
   PHASE 2 – SURFACE OVERLAY
   PHASE 3 – SHOULDER DROP–OFF REPAIR (AS NEEDED AND DIRECTED BY ENGINEER)
   PHASE 4 – UTILITY ADJUSTMENTS (MANHOLE RING/COVER, VALVE/METER BOX RING/COVER, CATCH BASIN GRATE/COVER, DROP INLET GRATE/COVER, ETC.) WHEN REQUIRED.

3. BRIDGES THAT HAVE FLOOR DRAINS, SHALL HAVE ALL FLOOR DRAINS LEFT OPEN. EXTRA CARE SHALL BE EXERCISED IN MILLING (IF REQUIRED) AND IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE.

4. TEMPORARY ASPHALT WEDGING SHALL BE PLACED ON THE SAME DAY THAT BRIDGE AND/OR RAILROAD APPROACHES ARE MILLED (AND IF APPROACHES ARE MILLED PRIOR TO BRIDGE DECK).

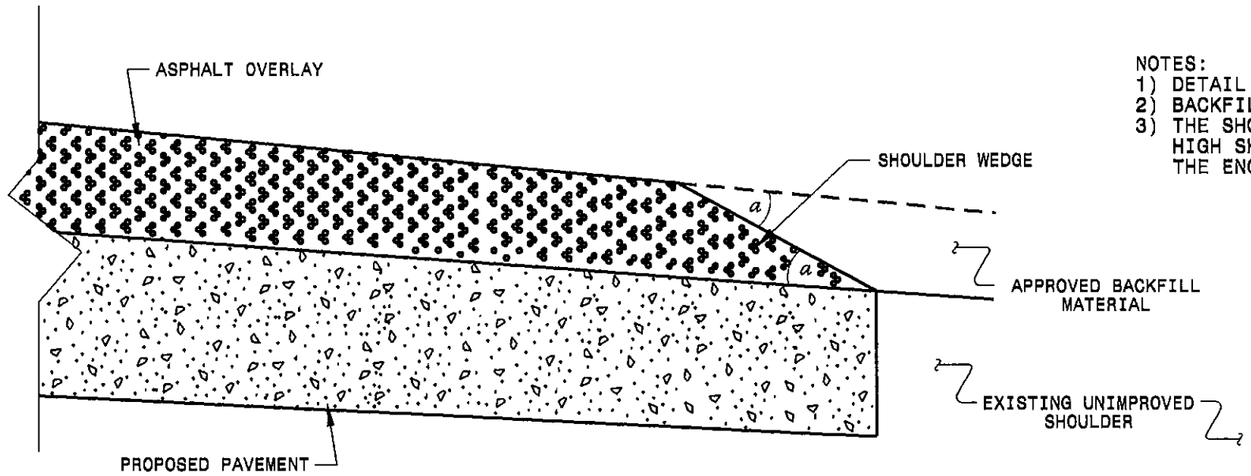
5. FOR TWO–LANE ROADWAYS – IT SHALL BE UNDERSTOOD THAT TYPICALLY ON A ROADWAY MEASURING 20 FEET OR LESS IN WIDTH, THE CENTER OF THE WHITE EDGELINE SHALL BE LOCATED SIX INCHES FROM THE EDGE OF PAVEMENT ON EITHER SIDE OF THE ROADWAY; ON A ROADWAY MEASURING 22 FEET IN WIDTH, TRAVEL LANES SHALL MEASURE 10 FEET AND THE WHITE EDGELINE SHALL BE LOCATED ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE; ON A ROADWAY MEASURING 24 FEET IN WIDTH, TRAVEL LANES SHALL MEASURE 11 FEET AND THE WHITE EDGELINE SHALL BE LOCATED ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE; ON A ROADWAY MEASURING 26 FEET OR MORE IN WIDTH, TRAVEL LANES SHALL MEASURE 12 FEET AND THE WHITE EDGELINE SHALL BE LOCATED NO LESS THAN ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE. THIS SHALL BE STANDARD PRACTICE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

6. PAPER JOINTS ARE TO BE PLACED BETWEEN DAYS OF PAVING OPERATIONS AS SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION 610–11.

7. ALL MILLED AREAS WILL BE PAVED WITHIN 72 HOURS UNLESS APPROVED BY THE ENGINEER.

8. REPLACE ANY PORTION OF STOP BARS AND OTHER PAVEMENT MARKINGS AT ANY INTERSECTION INCLUDING Y–LINES NOT ACTUALLY BEING PAVED OVER, THAT ARE OBLITERATED BY THE PAVING OPERATION EITHER BY HAULING WHEEL TRACKS OR TACK TRUCK BY THE END OF EACH RESURFACING OPERATION

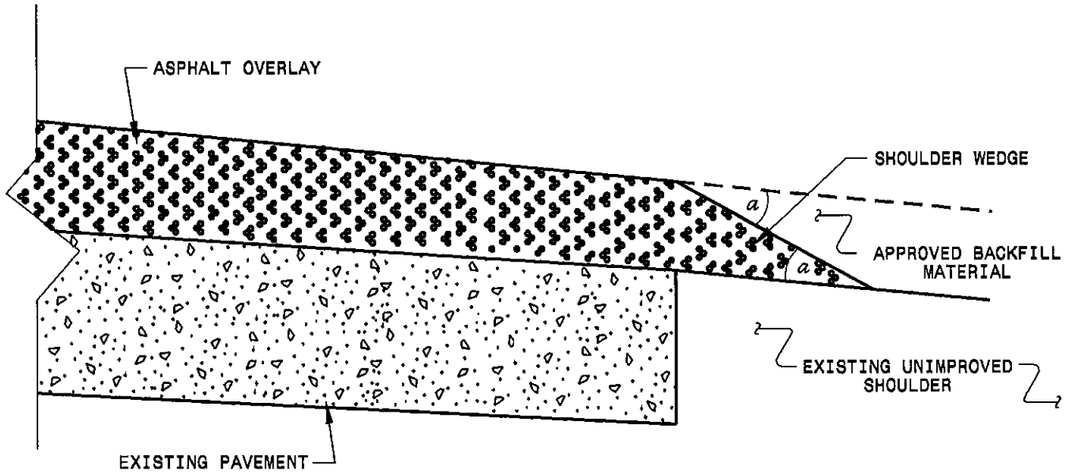
PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.34.10851 2017CPT.09.35.20851 2017CPT.09.31.20341	10



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, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS DIRECTED BY THE ENGINEER.

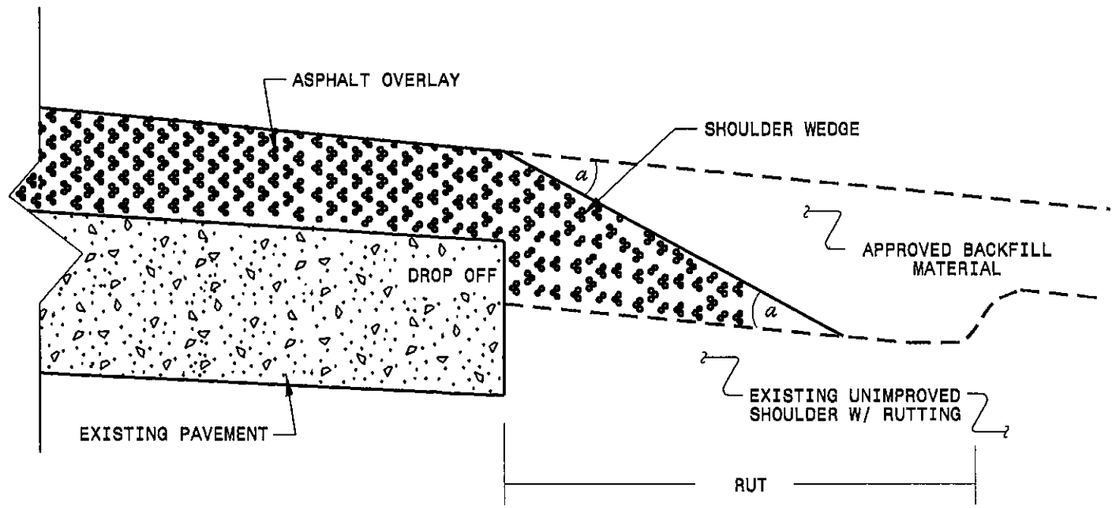
SHOULDER WEDGE DETAIL

(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: 10/18/12
CHECKED BY: _____ DATE: _____
FILE SPEC.: e:\wp\details\stand\shoulderwedgedetail.dgn

Stokes County Resurfacing Bridges

PROJECT NO.	SHEET NO.
2017CPT.09.34.10851 2017CPT.09.35.20851 2017CPT.09.31.20341	11

Map No.	Route No.	Route Name	Bridge No.	Feature Intersected	Floor Construction	Clear Roadway Width (Ft)	Horizontal Clearance Under (Ft.)	Vertical Clearance Under	Length (Ft)	Posting	Recommended Treatment, From Bridge Maintenance
9	SR 1945	Rosebud Rd.	98	Sandy Branch	PPC Cored Slabs; 3.75" AWS	27.8	NA	NA	82.36	N/A	TIE IN MILL at pavement joint at Bridge DO NOT PAVE OVER

PROJECT NO.	SHEET NO.	TOTAL NO.
2017CPT.09.34.10851, 2017CPT.09.35.20851, 2017CPT.09.31.20341	12	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	BORROW EXCAVATION CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	MILLING ASPHALT PAVEMENT, 1 1/2"DEPTH SY	MILLING ASPHALT PAVEMENT, 0"TO 1 1/2" DEPTH SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ADJ. OF MANHOLES EA	TEMPORARY SILT FENCE LF	WATTLE LF
2017CPT.09.34.10851	Stokes	1	NC 704	FROM PAVEMENT JT. AT BEASLEY SCHOOL RD. (SR 1622) THRU INTERSECTION AT STOVALL RD. (SR 1612)	1	2	2WU	NO	NO	2.094	22	251	225	4.19			489	2,511		151	251		838	84
TOTAL FOR MAP NO. 1										**2.094**		**251**	**225**	**4.19**			**489**	**2,511**		**151**	**251**		**838**	**84**
2017CPT.09.34.10851	Stokes	2	NC 772	FROM PAVEMENT JT. AT DILLARD RD. (SR 1690) TOSOUTH SIDE OF INTERSECTION AT NC 704	1	2	2WU	NO	NO	4.777	23	573	414	9.55			511	5,988		359	544		1,911	191
TOTAL FOR MAP NO. 2										**4.777**		**573**	**414**	**9.55**			**511**	**5,988**		**359**	**544**		**1,911**	**191**
2017CPT.09.34.10851	Stokes	3	NC 8/ NC 89	FROM 100 FEET SOUTH OF INTERSECTION AT GENE MARTIN RD. (SR1986) TO SHEPPARD MILL RD. (SR 1652)	1	2	2WU	NO	NO	2.395	24	287	321	4.79			866	3,132		188	626	2	958	96
TOTAL FOR MAP NO. 3										**2.395**		**287**	**321**	**4.79**			**866**	**3,132**		**188**	**626**	**2**	**958**	**96**
TOTAL FOR PROJ NO. 2017CPT.09.34.10851										**9.266**		**1,111**	**960**	**18.53**			**1,866**	**11,631**		**698**	**1,421**	**2**	**3,707**	**371**
2017CPT.09.35.20851	Stokes	4	SR 2015 HANGING ROCK PARK RD.	FROM NOSE OF CONC. MEDIAN ISLAND TO PARK ENTRANCE NEAR MOORE SPRINGS RD. (SR 1001)	1	2	2WU	NO	NO	1.51	21	181	102	3.02			467	1,729		104	346		604	60
TOTAL FOR MAP NO. 4										**1.51**		**181**	**102**	**3.02**			**467**	**1,729**		**104**	**346**		**604**	**60**
2017CPT.09.35.20851	Stokes	5	SR 1747 G.W. SOUTHERN RD.	FROM PAVEMENT JT. AT NC 8 TO PAVEMENT JT. AT NC 89	5	2	2WU	NO	NO	0.137	20	16	33	0.27	1,693			157		9	20		55	5
TOTAL FOR MAP NO. 5										**0.137**		**16**	**33**	**0.27**	**1,693**			**157**		**9**	**20**		**55**	**5**
2017CPT.09.35.20851	Stokes	6	SR 1720 BAILEYTOWN CHURCH RD.	FROM PAVEMENT JT AT NC 89 TO DEAD END	3	2		NO	NO	0.857	18		120						854	57	85		343	34
TOTAL FOR MAP NO. 6										**0.857**			**120**						**854**	**57**	**85**		**343**	**34**
2017CPT.09.35.20851	Stokes	7	SR 1754 VAUGHN RD.	FROM BAILEYTOWN CHURCH RD. (SR 1720) TO END (INCLUDES CUL-DE-SAC)	3	2	2WU	NO	NO	0.147	16		33						126	8	13		59	6
TOTAL FOR MAP NO. 7										**0.147**			**33**						**126**	**8**	**13**		**59**	**6**
2017CPT.09.35.20851	Stokes	8	SR 1750 WHICKER RD.	FROM BAILEYTOWN CHURCH RD. (SR 1720)	3	2	2WU	NO	NO	0.14	18		42						144	10	15		56	6
TOTAL FOR MAP NO. 8										**0.14**			**42**						**144**	**10**	**15**		**56**	**6**
2017CPT.09.35.20851	Stokes	9	SR 1945 ROSEBUD RD.	FROM PAVEMENT JT. AT NC 8 TO BRIDGE #98 PAVEMENT JT.	1	2	2WU	NO	NO	2.472	21	297	312	4.94			467	2,831		170	142		989	99
TOTAL FOR MAP NO. 9										**2.472**		**297**	**312**	**4.94**			**467**	**2,831**		**170**	**142**		**989**	**99**
2017CPT.09.35.20851	Stokes	10	SR 2093 SOUTH STOKES HIGH RD.	FROM SOUTH STOKES SCHOOL RD. (SR9175) TO END OF CURB & GUTTER (DEAD END)	1	2	2WU	NO	NO	0.35	21	42	12	0.70			233	401		24	10		140	14
TOTAL FOR MAP NO. 10										**0.35**		**42**	**12**	**0.70**			**233**	**401**		**24**	**10**		**140**	**14**
2017CPT.09.35.20851	Stokes	11	SR 1369 MT. SORREL	FROM E.O.P. AT SR 1119 HELSABECK RD. TO END	4	2	2WU	NO	NO	0.19	22				2,452				261	17		2		
TOTAL FOR MAP NO. 11										**0.19**					**2,452**				**261**	**17**		**2**		
2017CPT.09.35.20851	Stokes	12	SR 1370 WINDERMERE WAY	FROM E.O.P. AT MT SORRELL SR 1369 TO ASHLEY LN. (NS)	4	2	2WU	NO	NO	0.345	22				4,453				406	27				
TOTAL FOR MAP NO. 12										**0.345**					**4,453**				**406**	**27**				
2017CPT.09.35.20851	Stokes	13	ASHLEY LANE (NS)	FROM END TO END	4	2	2WU	NO	NO	0.262	22				4,144				378	25				
TOTAL FOR MAP NO. 13										**0.262**					**4,144**				**378**	**25**				
2017CPT.09.35.20851	Stokes	14	SR 1222 NEWSOME RD.	FROM MEADOWBROOK DR. (SR 1105) TO FORSYTH CO. LINE	1	2	2WU	NO	NO	1.398	23	168	108	2.79			256	1,752		105	88		559	56
TOTAL FOR MAP NO. 14										**1.398**		**168**	**108**	**2.79**			**256**	**1,752**		**105**	**88**		**559**	**56**
TOTAL FOR PROJ NO. 2017CPT.09.35.20851										**7.808**		**704**	**762**	**11.72**	**12,742**		**1,423**	**6,870**	**2,169**	**556**	**719**	**2**	**2,805**	**280**
2017CPT.09.31.20341	Forsyth	15	SR 4021 NEWSOME RD.	FROM STOKES COUNTY LINE TO 50 FEET FROM STOP BAR AT KING-TOBACCOVILLE RD. (SR 1611)	1,2	2	MU	NO	NO	0.23	23	28		0.46		520	400	316		19	16		23	9
TOTAL FOR MAP NO. 15										**0.23**		**28**		**0.46**		**520**	**400**	**316**		**19**	**16**		**23**	**9**
TOTAL FOR PROJ NO. 2017CPT.09.31.20341										**0.23**		**28**		**0.46**		**520**	**400**	**316**		**19**	**16**		**23**	**9**
GRAND TOTAL										17.304		1,843	1,722	30.71	12,742	520	3,689	18,817	2,169	1,273	2,156	4	6,535	660

NOTE: All Quantities listed include turn lanes and are estimates; Payment will be based on actual field measurements and quantities received.

PROJECT NO.	SHEET NO.	TOTAL NO.
2017CPT.09.34.10851, 2017CPT.09.35.20851, 2017CPT.09.31.20341	13	

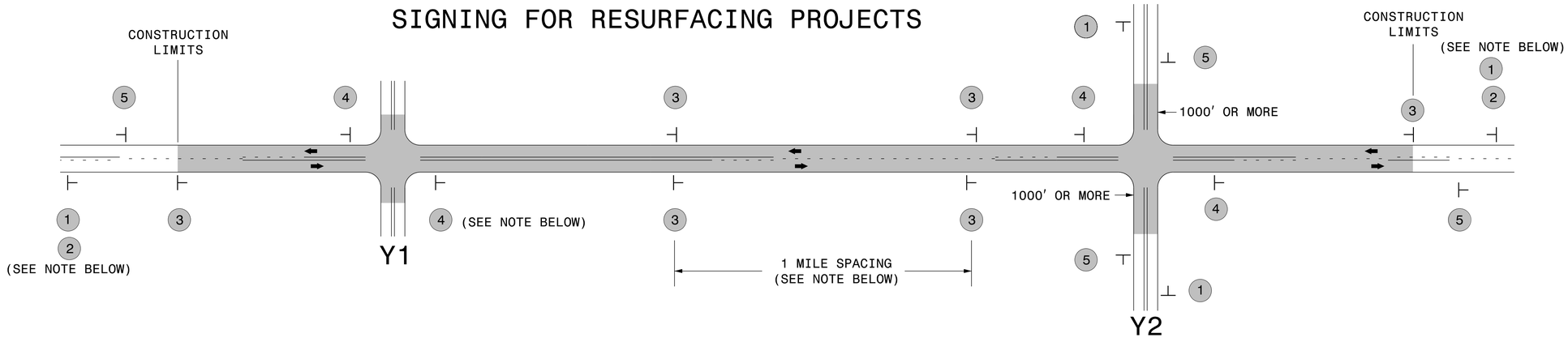
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E WORK ZONE ADVANCE/GENERAL WARNING SIGNING SF	4457000000-N TEMPORARY TRAFFIC CONTROL LS	4685000000-E 4" X 90 M WHITE THERMO LF	4686000000-E 4" X 120 M YELLOW THERMO LF	4686000000-E 4" X 120 M WHITE THERMO LF	4725000000-E THERMO LT ARROW 90 M EA	4725000000-E THERMO RT ARROW 90 M EA	4905000000-N SNOW PLOWABLE MARKERS EA
2017CPT.09.34.10851	Stokes	1	NC 704	FROM PAVEMENT JT. AT BEASLEY SCHOOL RD. (SR 1622) THRU INTERSECTION AT STOVALL RD. (SR 1612)	1	2	2WU	2.094	22	235	1	22,531	22,113	56			138
TOTAL FOR MAP NO. 1								**2.094**		**235**	**1**	**22,531**	**22,113**	**56**			**138**
2017CPT.09.34.10851	Stokes	2	NC 772	FROM PAVEMENT JT. AT DILLARD RD. (SR 1690) TOSOUTH SIDE OF INTERSECTION AT NC 704	1	2	2WU	4.777	23	535		51,401	50,445	114			315
TOTAL FOR MAP NO. 2								**4.777**		**535**		**51,401**	**50,445**	**114**			**315**
2017CPT.09.34.10851	Stokes	3	NC 8/ NC 89	FROM 100 FEET SOUTH OF INTERSECTION AT GENE MARTIN RD. (SR1986) TO SHEPPARD MILL RD. (SR 1652)	1	2	2WU	2.395	24	268		25,770	25,770	36			158
TOTAL FOR MAP NO. 3								**2.395**		**268**		**25,770**	**25,770**	**36**			**158**
TOTAL FOR PROJ NO. 2017CPT.09.34.10851								**9.266**		**1,038**	**1**	**99,702**	**98,328**	**206**			**611**
													98,534				
2017CPT.09.35.20851	Stokes	4	SR 2015 HANGING ROCK PARK RD.	FROM NOSE OF CONC. MEDIAN ISLAND TO PARK ENTRANCE NEAR MOORE SPRINGS RD. (SR 1001)	1	2	2WU	1.51	21	169		16,248	15,946	30			
TOTAL FOR MAP NO. 4								**1.51**		**169**		**16,248**	**15,946**	**30**			
2017CPT.09.35.20851	Stokes	5	SR 1747 G.W. SOUTHERN RD.	FROM PAVEMENT JT. AT NC 8 TO PAVEMENT JT. AT NC 89	5	2	2WU	0.137	20	15							
TOTAL FOR MAP NO. 5								**0.137**		**15**							
2017CPT.09.35.20851	Stokes	6	SR 1720 BAILEYTOWN CHURCH RD.	FROM PAVEMENT JT AT NC 89 TO DEAD END	3	2		0.857	18	96		4,594	4,594	26			
TOTAL FOR MAP NO. 6								**0.857**		**96**		**4,594**	**4,594**	**26**			
2017CPT.09.35.20851	Stokes	7	SR 1754 VAUGHN RD.	FROM BAILEYTOWN CHURCH RD. (SR 1720) TO END (INCLUDES CUL-DE-SAC)	3	2	2WU	0.147	16	16							
TOTAL FOR MAP NO. 7								**0.147**		**16**							
2017CPT.09.35.20851	Stokes	8	SR 1750 WHICKER RD.	FROM BAILEYTOWN CHURCH RD. (SR 1720)	3	2	2WU	0.14	18	16							
TOTAL FOR MAP NO. 8								**0.14**		**16**							
2017CPT.09.35.20851	Stokes	9	SR 1945 ROSEBUD RD.	FROM PAVEMENT JT. AT NC 8 TO BRIDGE #98 PAVEMENT JT.	1	2	2WU	2.472	21	277							
TOTAL FOR MAP NO. 9								**2.472**		**277**							
2017CPT.09.35.20851	Stokes	10	SR 2093 SOUTH STOKES HIGH RD.	FROM SOUTH STOKES SCHOOL RD. (SR9175) TO END OF CURB & GUTTER (DEAD END)	1	2	2WU	0.35	21	39		3,766	3,696				
TOTAL FOR MAP NO. 10								**0.35**		**39**		**3,766**	**3,696**				
2017CPT.09.35.20851	Stokes	11	SR 1369 MT. SORREL	FROM E.O.P. AT SR 1119 HELSABECK RD. TO END	4	2	2WU	0.19	22	21							
TOTAL FOR MAP NO. 11								**0.19**		**21**							
2017CPT.09.35.20851	Stokes	12	SR 1370 WINDERMERE WAY	FROM E.O.P. AT MT SORRELL SR 1369 TO ASHLEY LN. (NS)	4	2	2WU	0.345	22	39							
TOTAL FOR MAP NO. 12								**0.345**		**39**							
2017CPT.09.35.20851	Stokes	13	ASHLEY LANE (NS)	FROM END TO END	4	2	2WU	0.262	22	29							
TOTAL FOR MAP NO. 13								**0.262**		**29**							
2017CPT.09.35.20851	Stokes	14	SR 1222 NEWSOME RD.	FROM MEADOWBROOK DR. (SR 1105) TO FORSYTH CO. LINE	1	2	2WU	1.398	23	182		15,037	14,758	75			
TOTAL FOR MAP NO. 14								**1.398**		**182**		**15,037**	**14,758**	**75**			
TOTAL FOR PROJ NO. 2017CPT.09.35.20851								**7.808**		**899**		**39,645**	**38,994**	**131**			
													39,125				
2017CPT.09.31.20341	Forsyth	15	SR 4021 NEWSOME RD.	FROM STOKES COUNTY LINE TO 50 FEET FROM STOP BAR AT KING-TOBACCOVILLE RD. (SR 1611)	1,2	2	MU	0.23	23			2,475	2,429	194	4	4	
TOTAL FOR MAP NO. 15								**0.23**				**2,475**	**2,429**	**194**	**4**	**4**	
TOTAL FOR PROJ NO. 2017CPT.09.31.20341								**0.23**				**2,475**	**2,429**	**194**	**4**	**4**	
													2,623		**8**		
GRAND TOTAL								**17.304**		**1,937**	**1**	**141,822**	**139,751**	**531**	**4**	**4**	**611**
													140,282		**8**		

NOTE: All Quantities listed include turn lanes and are estimates; Payment will be based on actual field measurements and quantities received.

PROJ. REFERENCE NO.	SHEET NO.

SIGNING FOR RESURFACING PROJECTS



LEGEND

⊢ STATIONARY SIGN

⬅ DIRECTION OF TRAFFIC FLOW

SIGNING NOTES AND PLACEMENT PER DIRECTION

MAINLINE (-L-) SIGNING

1 — ROAD WORK AHEAD, W20-1, 48″ X 48″

PLACE 1000′ PRIOR TO BEGINNING OF CONSTRUCTION LIMITS.
ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000′ ALONG -Y- LINE.

2 — NEXT XX MILES, W7-3aP, 24″ X 18″

#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 — LOW/SOFT SHOULDER, SP 13107, 48″ X 48″

PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET ½ MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.

4 — ROAD UNDER CONST, SP 13106, 48″ X 48″

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 — END ROAD WORK, G20-2 A, 48″ X 24″

PLACE 500′ FOLLOWING THE END OF CONSTRUCTION LIMITS.

-Y- LINE SIGNING

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.

ROAD WORK AHEAD, W20-1, 48″ X 48″ — PLACED 500′ IN ADVANCE OF FLAGGER.

W20-7 A, 48″ X 48″ — PLACED 250′ IN ADVANCE OF FLAGGER.

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

RESURFACING ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2 LANE ROADWAYS

3/19/2015
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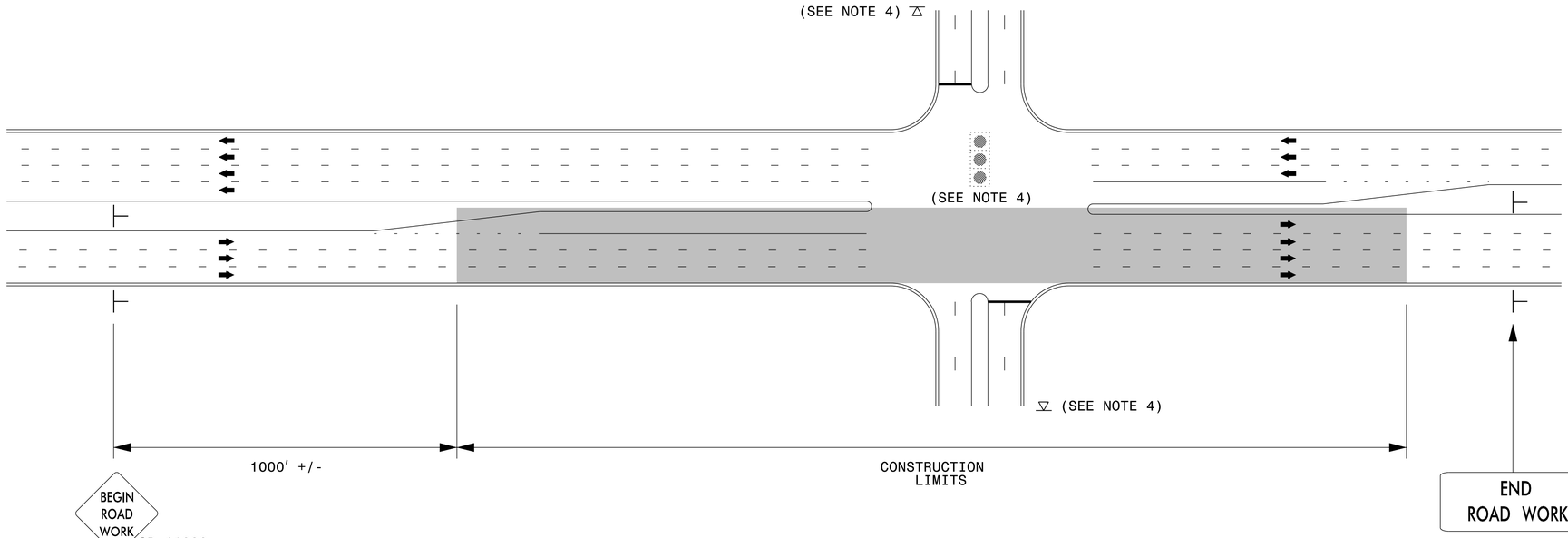
PROJ. REFERENCE NO.	SHEET NO.

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

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

RESURFACING ADVANCE WARNING SIGNS FOR URBAN / SUBURBAN FACILITIES

4/8/2015
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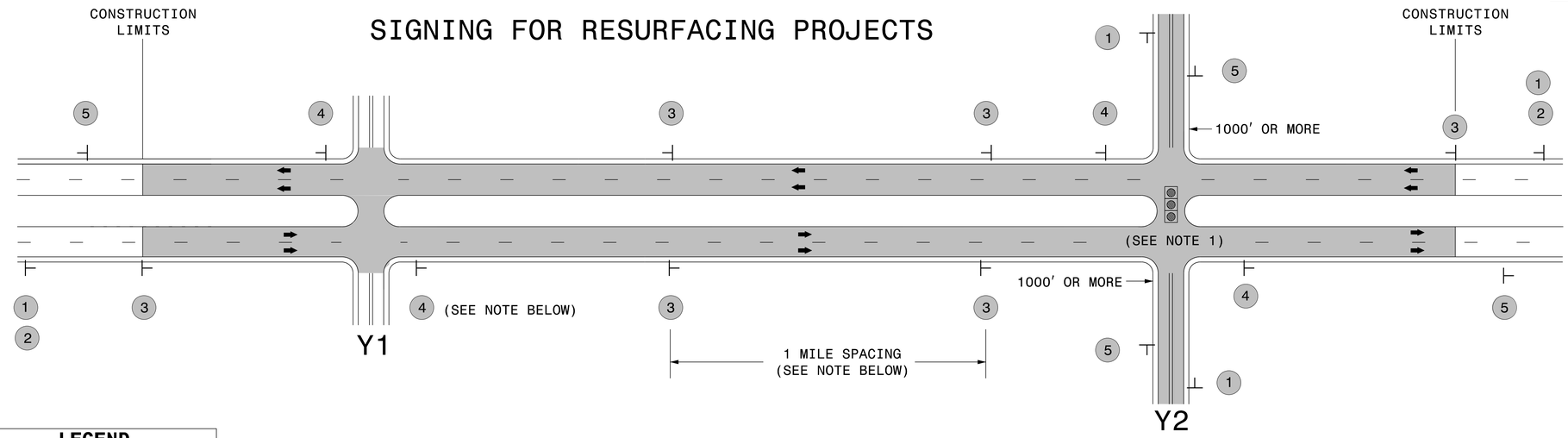
PROJ. REFERENCE NO.	SHEET NO.

SIGNING FOR RESURFACING PROJECTS



LEGEND

⊢ STATIONARY SIGN

⬅ DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION

1	ROAD WORK AHEAD W20-1 48″ X 48″	PLACE 1000′ PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000′ ALONG -Y- LINE.
2	NEXT XX MILES W7-3aP 24″ X 18″	#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	LOW/SOFT SHOULDER SP 13107 48″ X 48″	PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET ½ MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.
4	ROAD UNDER CONST SP 13106 48″ X 48″	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	END ROAD WORK G20-2 A 48″ X 24″	PLACE 500′ FOLLOWING THE END OF CONSTRUCTION LIMITS.

-Y- LINE SIGNING

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.

ROAD WORK AHEAD W20-1 48″ X 48″ — PLACED 500′ IN ADVANCE OF FLAGGER.

W20-7 A 48″ X 48″ — PLACED 250′ IN ADVANCE OF FLAGGER.

NOTES:

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

3/23/2015
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Notes on Moving Operation Caravan for Placing Pavement Marking or Markers on Four Lanes or More of a Multi-Lane Roadway

(1) The following options may be used as the first advance warning the motorists see:

a. Truck mounted advance warning signs
b. Truck mounted changeable message sign (CMS)
c. Ground mounted advance warning signs
(Must circle to pick up signs)
d. Ground mounted changeable message sign (CMS)
(Must circle to pick up signs)

(2) All advance warning signs must be 48" x 48" with fluorescent orange type VII, VIII, or IX sheeting. If space limitations on shoulder prohibit a 48" x 48" sign, a smaller sign can be used with approval from engineer.

(3) Signs on vehicles should be mounted a minimum of one foot from the ground and should not block the motorist's sight of the flashing arrow board and/or warning lights.

(4) Ground mounted advanced warning signs should be mounted a minimum of five feet from the ground to the bottom of the sign.

(5) Sign spacing should be adjusted for horizontal and vertical curves, etc. to improve sight distances.

(6) Additional vehicles should be used in work caravan to facilitate drying of pavement marking material (TMA's are optional on these additional vehicles). However, the first vehicle motorists see in the travel lane shall have a TMA.

(7) Adjust distances as needed to prevent motorists from entering space between the application and protection vehicle. Distance can be lengthened to accommodate sight distance needs.

(8) Round up mileage to next whole mile. Work zone should not exceed five miles in length.

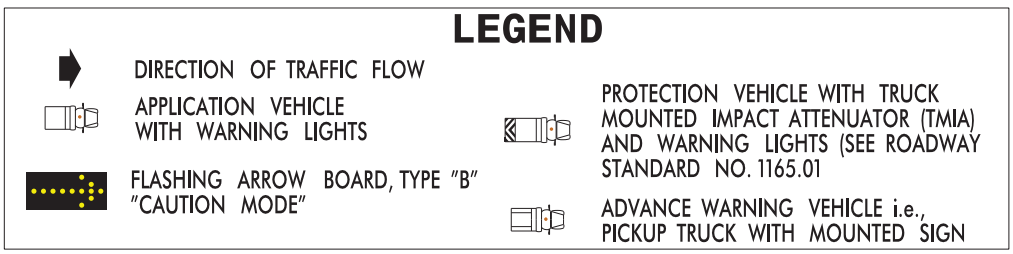
(9) Radio communication between vehicles is required.

(10) Use of warning lights on all vehicles if preferred, but a rotating beacon may be used instead.

(11) If work is performed at night, the work area must be illuminated with machine and/or tower lights as approved by engineer.

(12) All traffic control devices will be considered incidental to the pay items for pavement marking and markers.

(13) Informational signs should be activity specific, i.e. "Paint Crew in Road". Signs may be rectangular or diamond shape. Sign size should be based on the motorist ability to recognize sign when traveling five miles above posted speed limit.



Moving Operation Caravan

(Operations Traveling 3 mph or Faster)
Placing Pavement Marking or Markers
On Four Lanes or More of a Multi-Lane Roadway