

8/17/99  
I:\AN-2012\1438  
C:\d\8-projects\ddc-projects\Greg\Projects-Docs & Xis\January\Let-2012 Resurfacing\District 1 Resurfacing 2012\Chatham\chatham overview map.dgn  
AT 11:54:53 AM

# CHATHAM COUNTY

PROJECT REFERENCE NO.
8.101911, 8.201911, 8C.019112, 8SP.20194.09

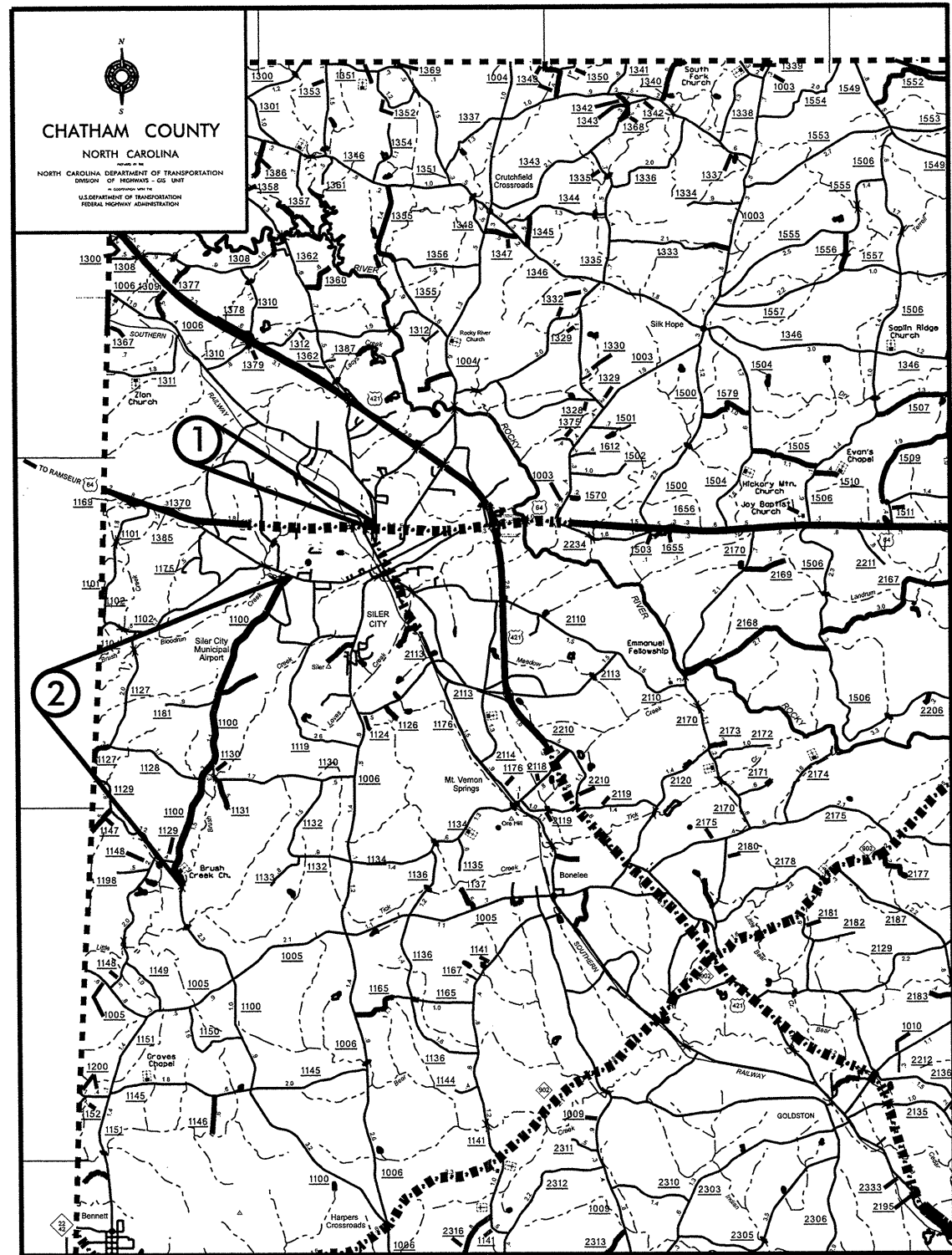
SHEET NO.
1



040397

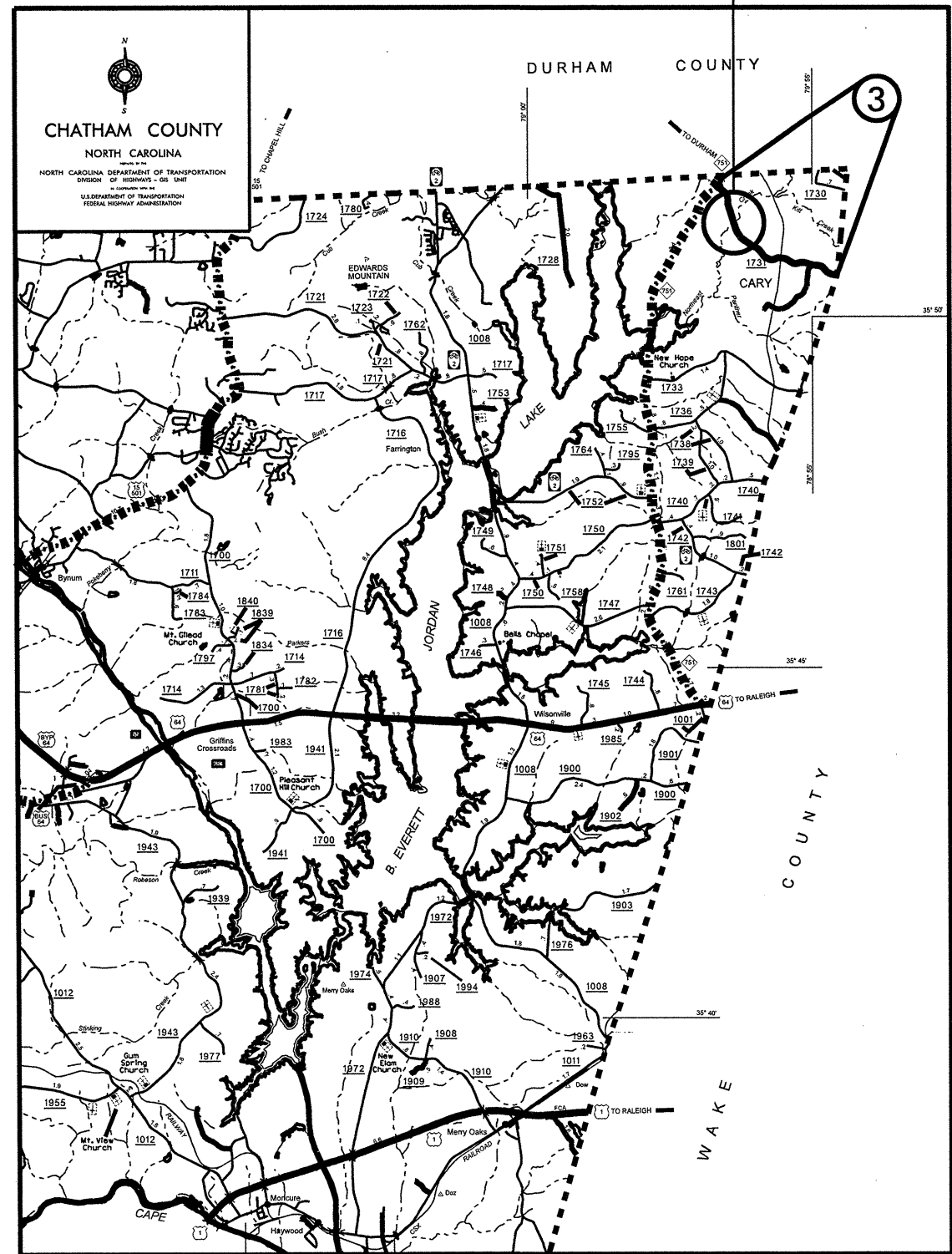
WBS ELEMENT	SHEET NO.
8.101911, 8.201911, 8.C.019112, 8SP.20194.09	2

### MAP #1 & #2



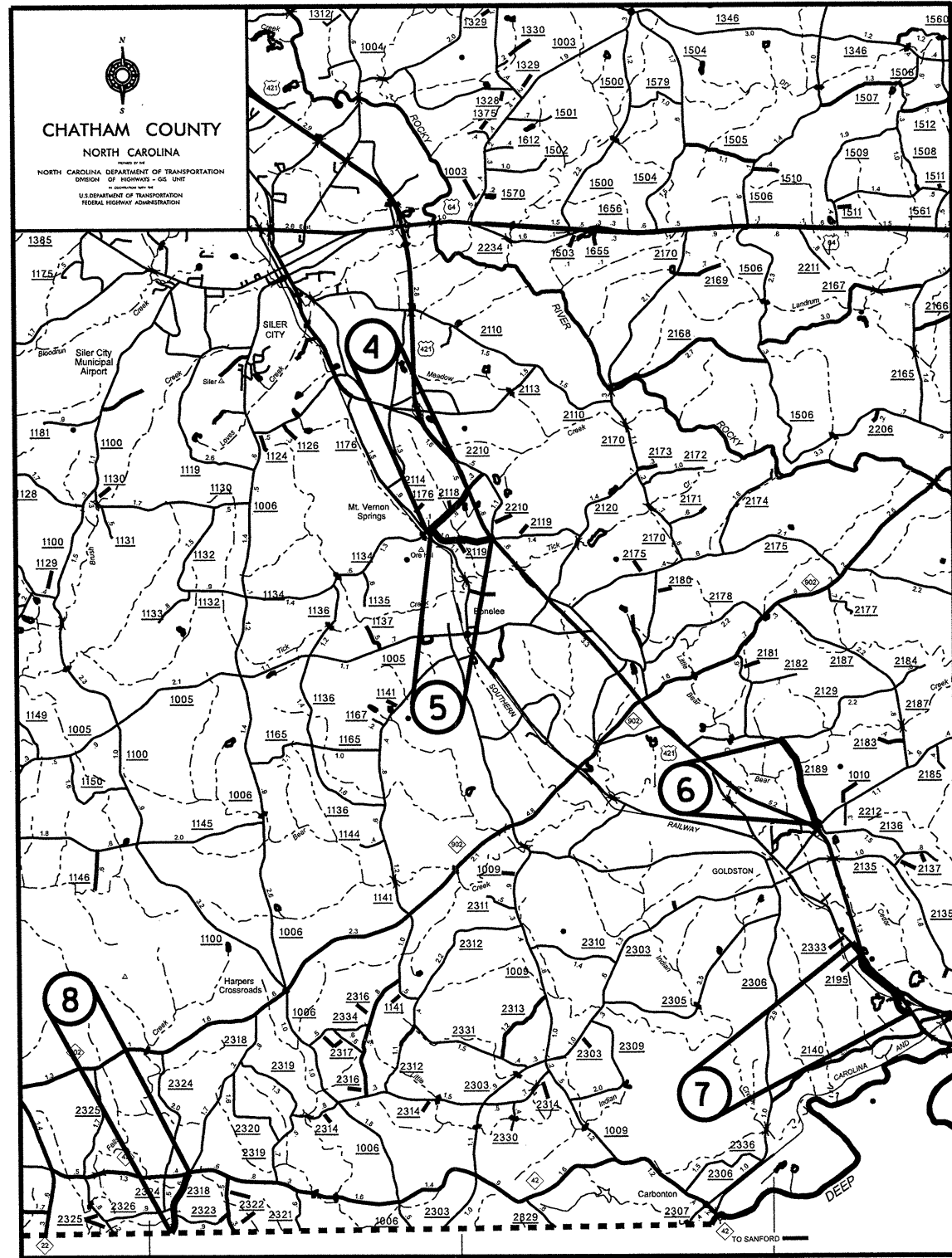
### MAP #3

SEE TYPICAL #3

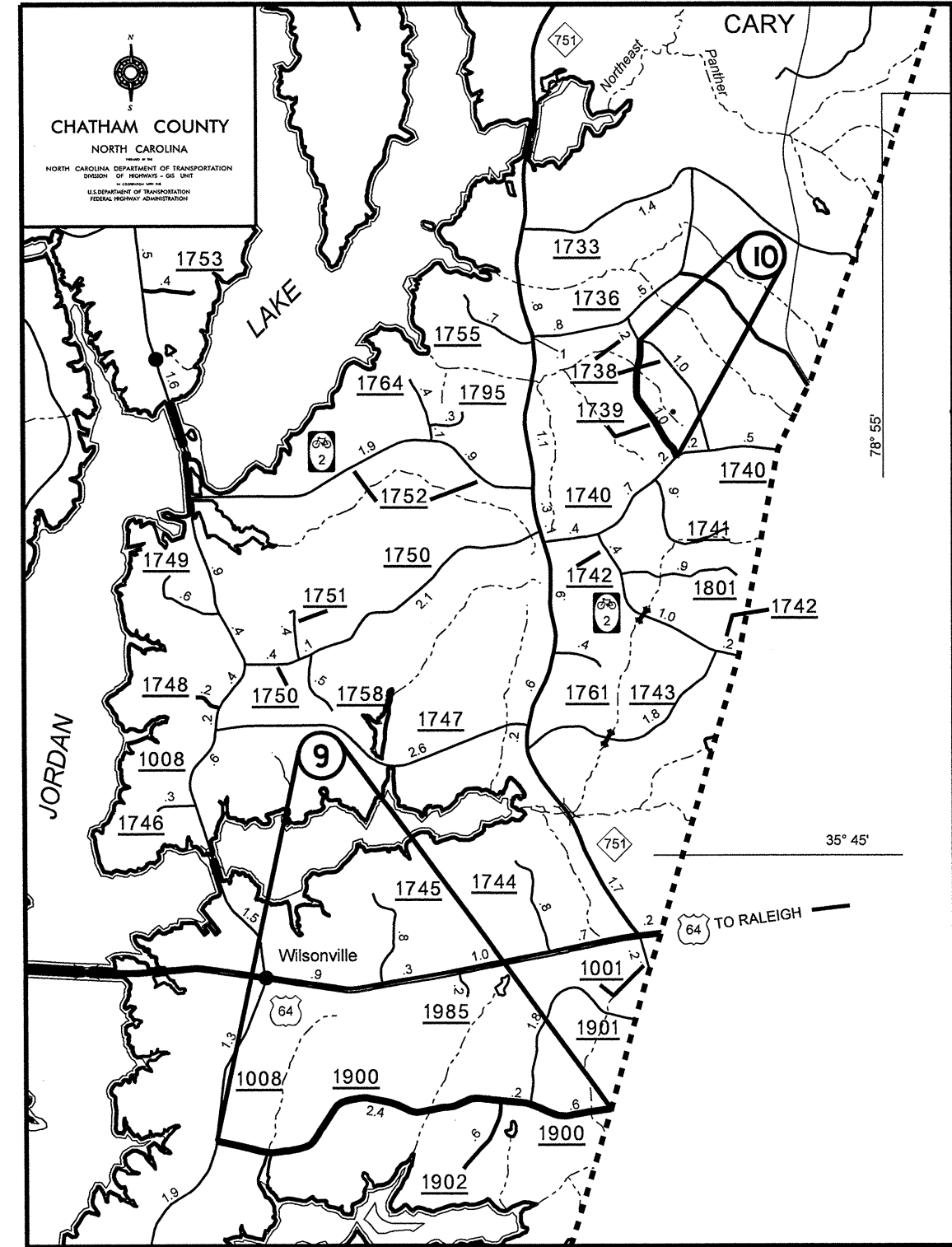


CONTINUED ON REVERSE SIDE

MAP #4 - #8

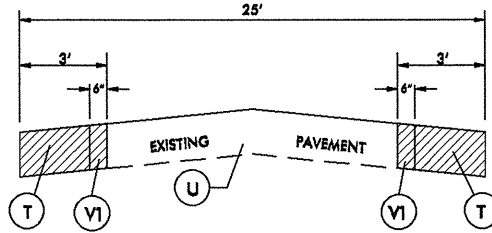


MAP #9 & #10



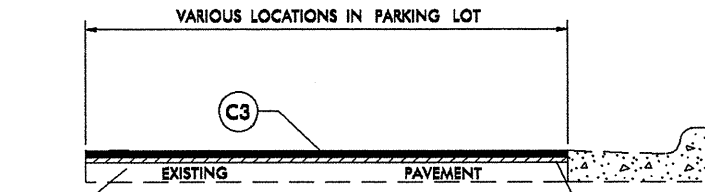
040397



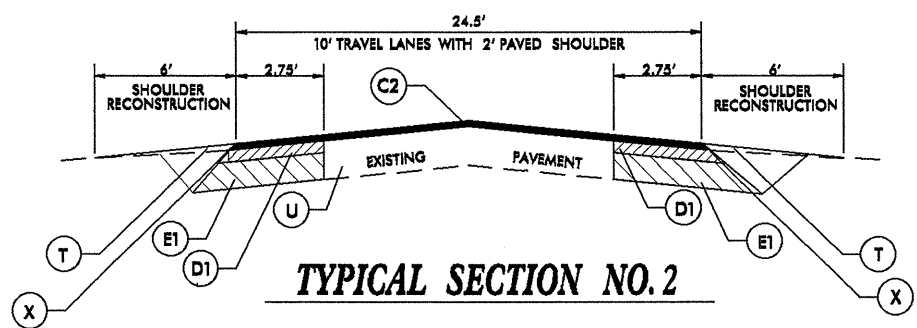


**TYPICAL SECTION NO.1**

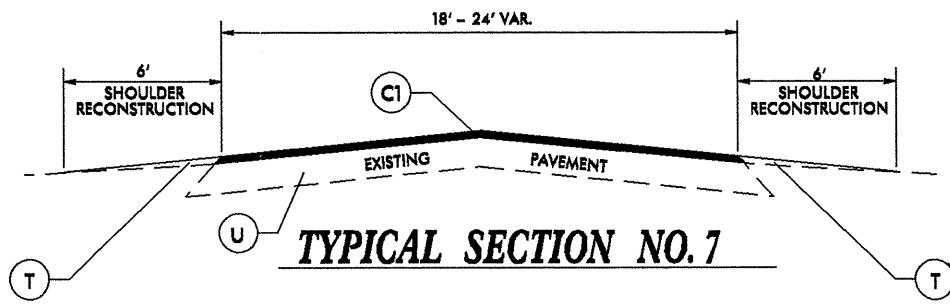
NOTE: CONTRACTOR SHALL MILL 3' WIDE ON EACH SIDE AND EXTEND 6" INTO EXISTING PAVEMENT TO PROVIDE TRENCH FOR WIDENING.



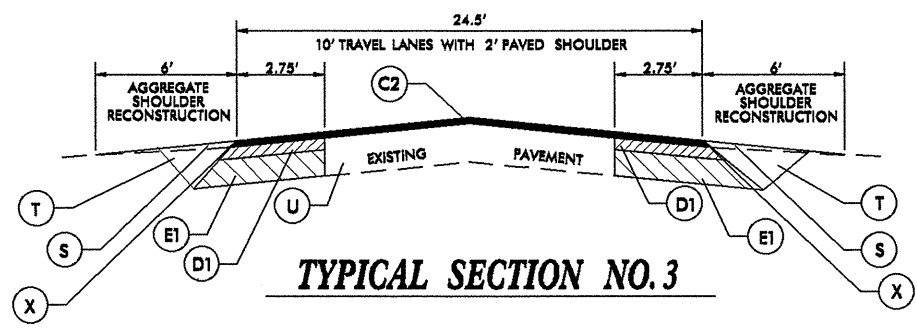
**TYPICAL SECTION NO.6**



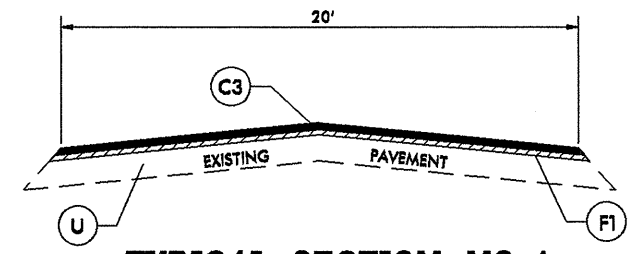
**TYPICAL SECTION NO.2**



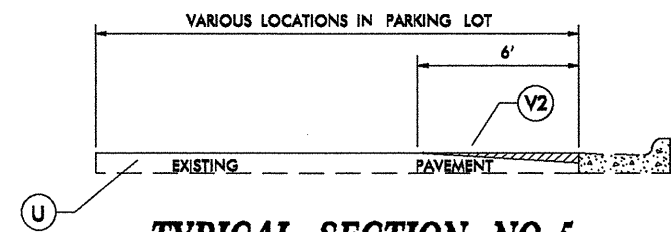
**TYPICAL SECTION NO.7**



**TYPICAL SECTION NO.3**



**TYPICAL SECTION NO.4**



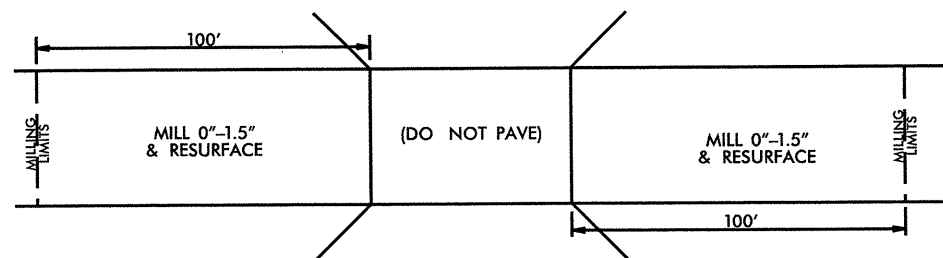
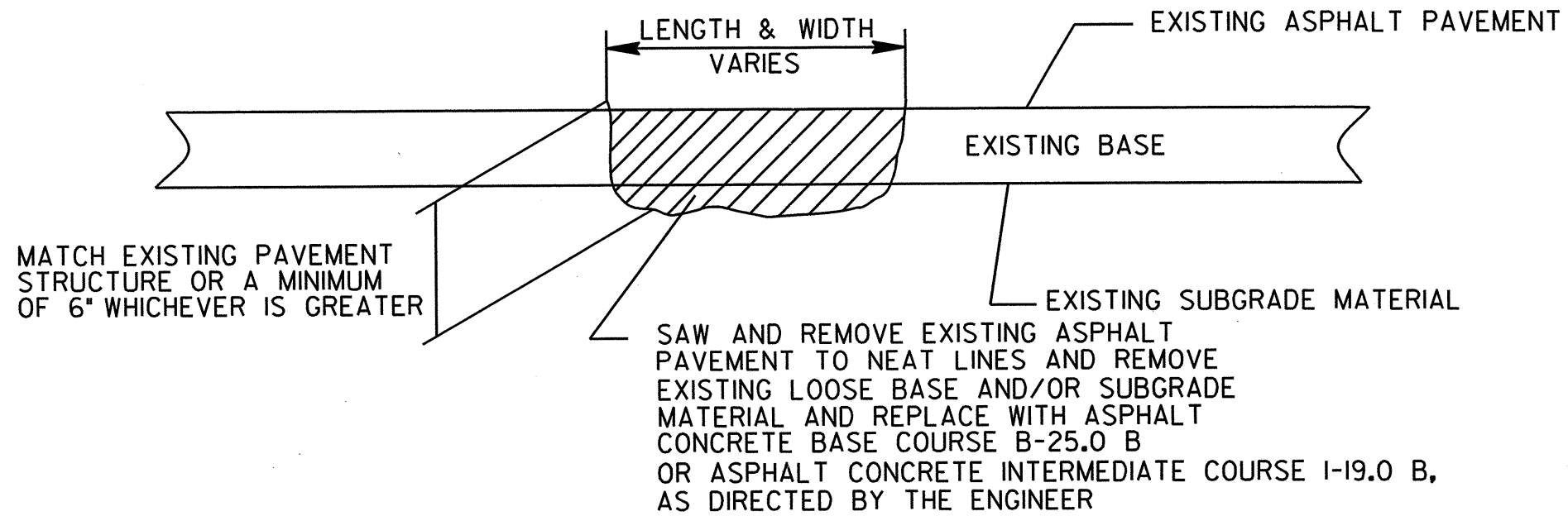
**TYPICAL SECTION NO.5**

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. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
F1	PROPOSED ASPHALT SURFACE TREATMENT, MAT COAT w/#6 STONE
S	AGGREGATE SHOULDER MATERIAL.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
VI	8" MILLING
V2	MILLING 0 TO 1.5" IN DEPTH.
X	SHOULDER WEDGE



# DETAILS OF PATCHING EXISTING PAVEMENT PRIOR TO RESURFACING

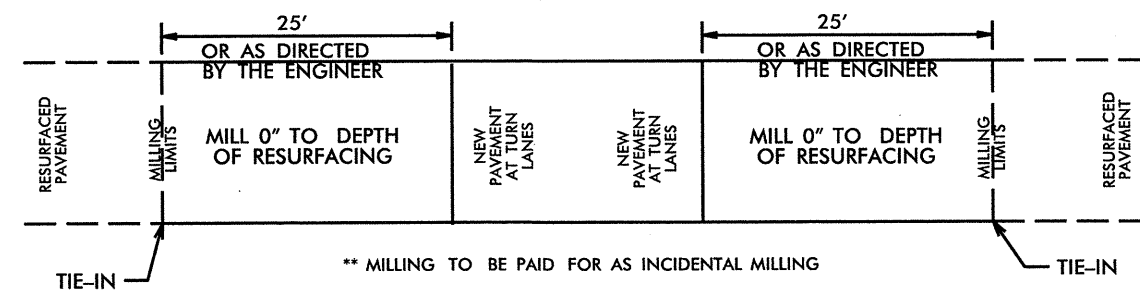
## DETAIL



\*\* - MILLING AT APPROACHES TO BE PAID AS INCIDENTAL MILLING

### BRIDGE MILLING

MAP NO. 3 (BRIDGE #54)



\*\* MILLING TO BE PAID FOR AS INCIDENTAL MILLING

### PAVEMENT TIE-IN DETAIL



PROJECT NO.	SHEET NO.	TOTAL NO.
8.101911, 8.201911 8C.019112, ETC.	8	

## SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	FINAL SURFACE TESTING REQUIRED	AGGREGATE SHOULDER BORROW	LENGTH MI	WIDTH FT	BORROW EXCAVATION CY	AGGREGATE SHOULDER BORROW TON	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	8" MILLING SY	0" TO 1.5" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0C TONS	INTERMEDIATE COURSE, I19.0C TONS	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, S9.5C TONS
8.101911	Chatham	1	SILER CITY DMV LOT	SILER CITY DMV LOT	4, 5, 6	NO	NO	0.053	20						320					
<b>TOTAL FOR PROJ NO. 8.101911</b>								<b>0.053</b>							<b>320</b>					
8.201911	Chatham	2	SR 1100	FROM BRUSHY CREEK TO SR 1107	7	NO	YES	5.62	18	618		562	11.24			1,040			5,365	
<b>TOTAL FOR PROJ NO. 8.201911</b>								<b>5.62</b>		<b>618</b>		<b>562</b>	<b>11.24</b>			<b>1,040</b>			<b>5,365</b>	
8C.019112	Chatham	3	SR 1731	FROM NC 751 TO WAKE CO LINE	1, 2, 3,	NO	YES	2.33	24	256	80	233	4.66	1,370		1,370	2,625	1,535		2,970
<b>TOTAL FOR PROJ NO. 8C.019112</b>								<b>2.33</b>		<b>256</b>	<b>80</b>	<b>233</b>	<b>4.66</b>	<b>1,370</b>		<b>1,370</b>	<b>2,625</b>	<b>1,535</b>		<b>2,970</b>
8SP.20194.09	Chatham	4	SR 2118	FROM SR 1176 TO US 421	8	NO	NO	0.9	20											
		5	SR 2119	FROM SR 2118 TO US 421	8	NO	NO	1	16											
		6	SR 2189	FROM SR 1010 TO SR 2129	8	NO	NO	1.47	20											
		7	SR 2195	FROM US 421 TO SR 2333	8	NO	NO	1.46	19											
		8	SR 2318	FROM MOORE COUNTY LINE TO NC 42	8	NO	NO	0.96	18											
		9	SR 1900	FROM SR 1008 TO WAKE COUNTY LINE	8	NO	NO	3.23	20											
		10	SR 1739	FROM SR1738 TO SR 1740	8	NO	NO	1	20											
		11	SR 1526	FROM SR 1525 TO SR 1528	9	NO	NO	1.94	20											
		12	SR 1532	FROM SR 1525 TO PAVEMENT JOINT	8	NO	NO	0.91	20											
		13	SR 1518	FROM SR 1516 TO NC 87	8	NO	NO	1.22	20											
		14	SR 2219	FROM US 15-501 TO SR 1953	8	NO	NO	1.8	22											
		15	SR 1702	FROM SR 1701 TO END OF MAINTENANCE	8	NO	NO	1.01	20											
		16	SR 2217	FROM US 15-501 TO BEGINNING OF ROAD WIDENING	8	NO	NO	2	20											
		17	SR 2217	FROM ROAD WIDENING TO US 15-501	8	NO	NO	0.55	22											
<b>TOTAL FOR PROJ NO. 8SP.20194.09</b>								<b>19.45</b>												
<b>GRAND TOTAL</b>								<b>27.453</b>		<b>874</b>	<b>80</b>	<b>795</b>	<b>15.90</b>	<b>1,370</b>	<b>320</b>	<b>2,410</b>	<b>2,625</b>	<b>1,535</b>	<b>5,365</b>	<b>2,970</b>

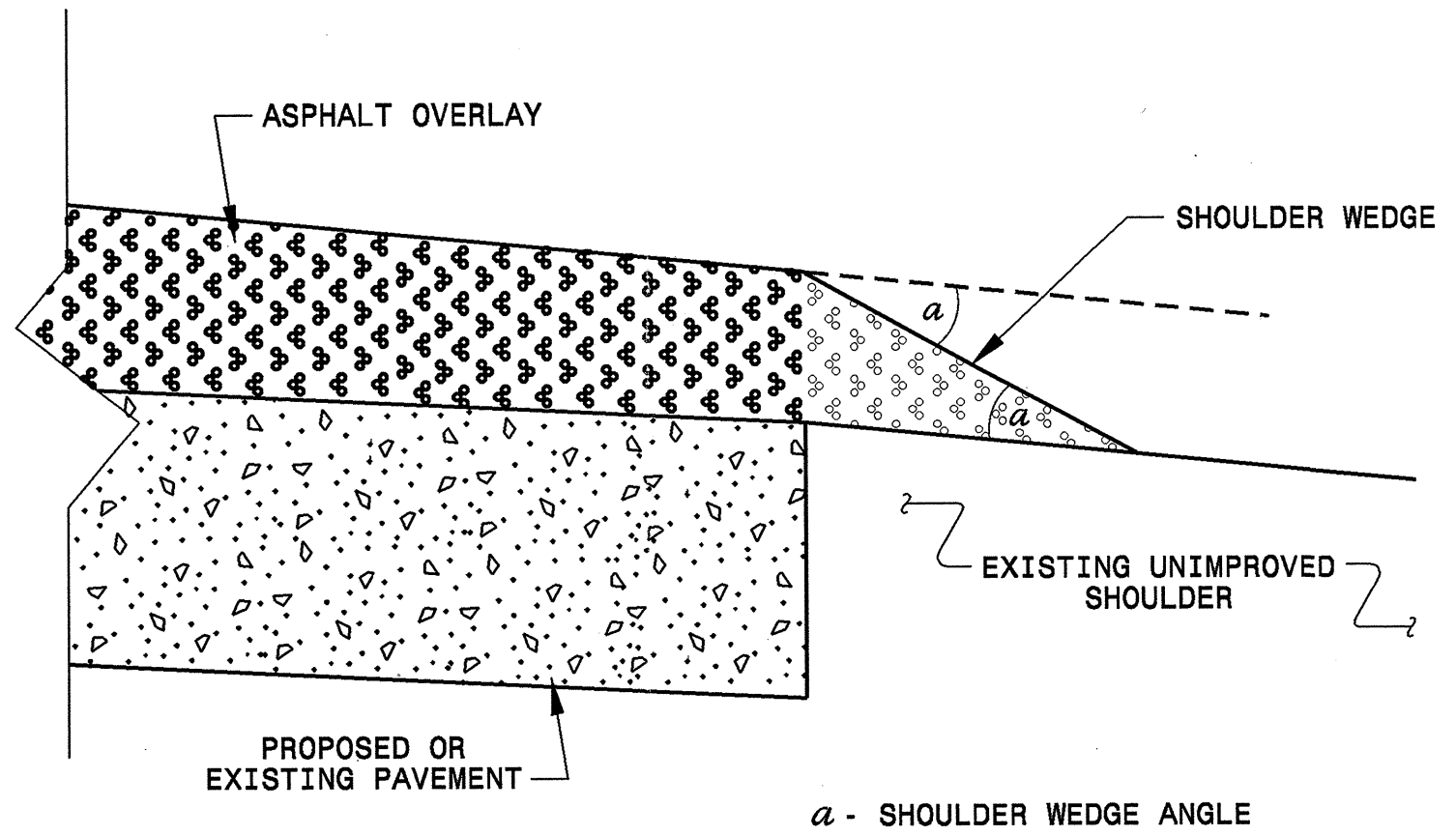
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH MI	WIDTH FT	SURFACE COURSE, SF9.5A TON	SURFACE COURSE, S4.75A LEVELING COURSE TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	AST MAT COAT #6 SY	ASPHALT SURFACE TREATMENT, SPLIT SEAL SY	TEMPORARY SILT FENCE LF	WATTLE LF	SEED & MULCHING AC	SEED FOR REPAIR SEEDING LB	FERTILIZER FOR REPAIR SEEDING TON
8.101911	Chatham	1	SILER CITY DMV LOT	SILER CITY DMV LOT	4, 5, 6	0.053	20	220		14	30	3,806						
<b>TOTAL FOR PROJ NO. 8.101911</b>						<b>0.053</b>		<b>220</b>		<b>14</b>	<b>30</b>	<b>3,806</b>						
8.201911	Chatham	2	SR 1100	FROM BRUSHY CREEK TO SR 1107	7	5.62	18			322	500			565	50	5.62	50	0.50
<b>TOTAL FOR PROJ NO. 8.201911</b>						<b>5.62</b>				<b>322</b>	<b>500</b>			<b>565</b>	<b>50</b>	<b>5.62</b>	<b>50</b>	<b>0.50</b>
8C.019112	Chatham	3	SR 1731	FROM NC 751 TO WAKE CO LINE	1, 2, 3,	2.33	24			358	75			235	50	2.33	50	0.50
<b>TOTAL FOR PROJ NO. 8C.019112</b>						<b>2.33</b>				<b>358</b>	<b>75</b>			<b>235</b>	<b>50</b>	<b>2.33</b>	<b>50</b>	<b>0.50</b>
8SP.20194.09	Chatham	4	SR 2118	FROM SR 1176 TO US 421	8	0.9	20				15		10,560					
		5	SR 2119	FROM SR 2118 TO US 421	8	1	16						9,387					
		6	SR 2189	FROM SR 1010 TO SR 2129	8	1.47	20				110		17,248					
		7	SR 2195	FROM US 421 TO SR 2333	8	1.46	19				180		14,603					
		8	SR 2318	FROM MOORE COUNTY LINE TO NC 42	8	0.96	18				90		10,138					
		9	SR 1900	FROM SR 1008 TO WAKE COUNTY LINE	8	3.23	20				200		38,014					
		10	SR 1739	FROM SR1738 TO SR 1740	8	1	20				70		11,734					
		11	SR 1526	FROM SR 1525 TO SR 1528	9	1.94	20		50	3	100		22,878					
		12	SR 1532	FROM SR 1525 TO PAVEMENT JOINT	8	0.91	20				60		10,678					
		13	SR 1518	FROM SR 1516 TO NC 87	8	1.22	20				50		14,430					
		14	SR 2219	FROM US 15-501 TO SR 1953	8	1.8	22				50		23,232					
		15	SR 1702	FROM SR 1701 TO END OF MAINTENANCE	8	1.01	20				75		11,966					
		16	SR 2217	FROM US 15-501 TO BEGINNING OF ROAD WIDENING	8	2	20				100		23,697					
		17	SR 2217	FROM ROAD WIDENING TO US 15-501	8	0.55	22				25		7,099					
<b>TOTAL FOR PROJ NO. 8SP.20194.09</b>						<b>19.45</b>			<b>50</b>	<b>3</b>	<b>1,125</b>		<b>225,664</b>					
<b>GRAND TOTAL</b>						<b>27.453</b>		<b>220</b>	<b>50</b>	<b>697</b>	<b>1,730</b>	<b>3,806</b>	<b>225,664</b>	<b>800</b>	<b>100</b>	<b>7.95</b>	<b>100</b>	<b>1</b>



PROJECT NO.	SHEET NO.	TOTAL NO.
8.101911, 8.201911 8C.019112, ETC.	9	

## THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	4399000000-N	4685000000-E	4686000000-E	4710000000-E	4725000000-E		4810000000-E		4900000000-N	
							TEMPORARY TRAFFIC CONTROL LS	4" X 90 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	24" X 120 M WHITE THERMO LF	THERMO HANDICAP PARKING 90 M EA	THERMO BICYCLE SYMBOL 90 M EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	YELLOW & YELLOW MARKERS EA	
8.101911	Chatham	1	SILER CITY DMV LOT	SILER CITY DMV LOT	0.053	20	*	1,024				1				
<b>TOTAL FOR PROJ NO. 8.101911</b>					<b>0.053</b>		<b>1</b>	<b>1,024</b>				<b>1</b>				
8.201911	Chatham	2	SR 1100	FROM BRUSHY CREEK TO SR 1107	5.62	18	*	60,471	48,400						371	
<b>TOTAL FOR PROJ NO. 8.201911</b>					<b>5.62</b>		<b>1</b>	<b>60,471</b>	<b>48,400</b>						<b>371</b>	
8C.019112	Chatham	3	SR 1731	FROM NC 751 TO WAKE CO LINE	2.33	24	*	25,071	20,100	40		2			154	
<b>TOTAL FOR PROJ NO. 8C.019112</b>					<b>2.33</b>		<b>1</b>	<b>25,071</b>	<b>20,100</b>	<b>40</b>		<b>2</b>			<b>154</b>	
8SP.20194.09	Chatham	4	SR 2118	FROM SR 1176 TO US 421	0.9	20	*						19,368	19,008		
8SP.20194.09	Chatham	5	SR 2119	FROM SR 2118 TO US 421	1	16								21,520	21,120	
8SP.20194.09	Chatham	6	SR 2189	FROM SR 1010 TO SR 2129	1.47	20								31,634	31,046	
8SP.20194.09	Chatham	7	SR 2195	FROM US 421 TO SR 2333	1.46	19								31,419	30,835	
8SP.20194.09	Chatham	8	SR 2318	FROM MOORE COUNTY LINE TO NC 42	0.96	18								20,659	20,275	
8SP.20194.09	Chatham	9	SR 1900	FROM SR 1008 TO WAKE COUNTY LINE	3.23	20								69,510	68,218	
8SP.20194.09	Chatham	10	SR 1739	FROM SR1738 TO SR 1740	1	20								21,520	21,120	
8SP.20194.09	Chatham	11	SR 1526	FROM SR 1525 TO SR 1528	1.94	20								41,749	40,973	
8SP.20194.09	Chatham	12	SR 1532	FROM SR 1525 TO PAVEMENT JOINT	0.91	20								19,583	19,219	60
8SP.20194.09	Chatham	13	SR 1518	FROM SR 1516 TO NC 87	1.22	20								26,254	25,766	
8SP.20194.09	Chatham	14	SR 2219	FROM US 15-501 TO SR 1953	1.8	22								38,736	38,016	
8SP.20194.09	Chatham	15	SR 1702	FROM SR 1701 TO END OF MAINTENANCE	1.01	20								21,735	21,331	
8SP.20194.09	Chatham	16	SR 2217	FROM US 15-501 TO BEGINNING OF ROAD WIDENING	2	20								43,040	42,240	
8SP.20194.09	Chatham	17	SR 2217	FROM ROAD WIDENING TO US 15-501	0.55	22								11,836	11,616	
<b>TOTAL FOR PROJ NO. 8SP.20194.09</b>					<b>19.45</b>			<b>1</b>						<b>418,563</b>	<b>410,783</b>	<b>60</b>
														<b>829,346</b>		
<b>GRAND TOTAL</b>					<b>27.453</b>			<b>1</b>	<b>86,566</b>	<b>68,500</b>	<b>40</b>	<b>1</b>	<b>2</b>	<b>418,563</b>	<b>410,783</b>	<b>585</b>
											<b>3</b>		<b>829,346</b>			



## SHOULDER WEDGE DETAIL

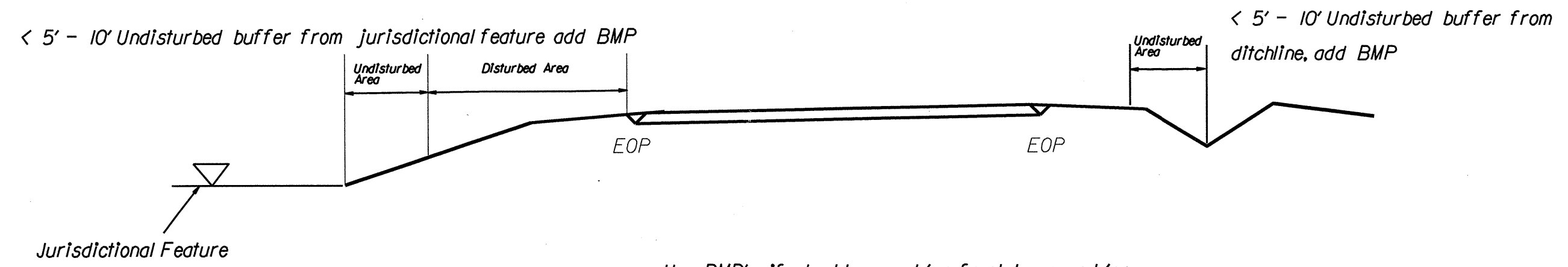
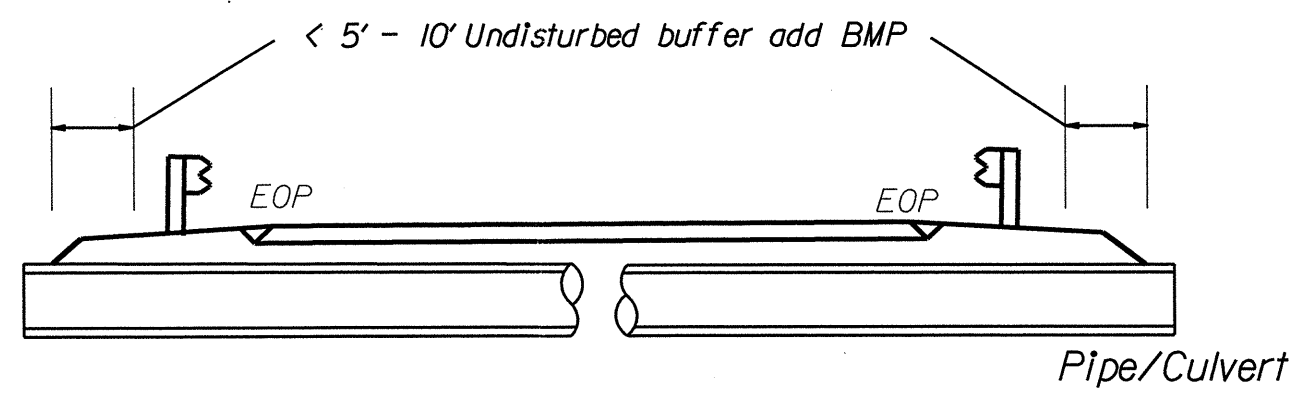
04-LAN-2012-1618  
 C:\misc\shoulder\std\stand\shoulderwedgedetail.dgn  
 P:\port\ter AT CSD237485

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>			
Office 819-707-8950		FAX 819-250-4119	
<b>SHOULDER WEDGE DETAIL</b>			
ORIGINAL BY:	T. SPELL	DATE:	7-19-11
MODIFIED BY:		DATE:	
CHECKED BY:		DATE:	
FILE SPEC.:	\\user\details\stand\shoulderwedgedetail.dgn		

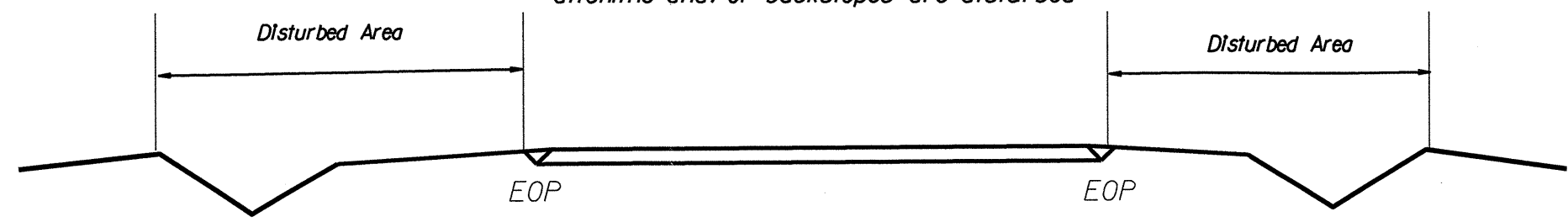
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle or Silt Fence

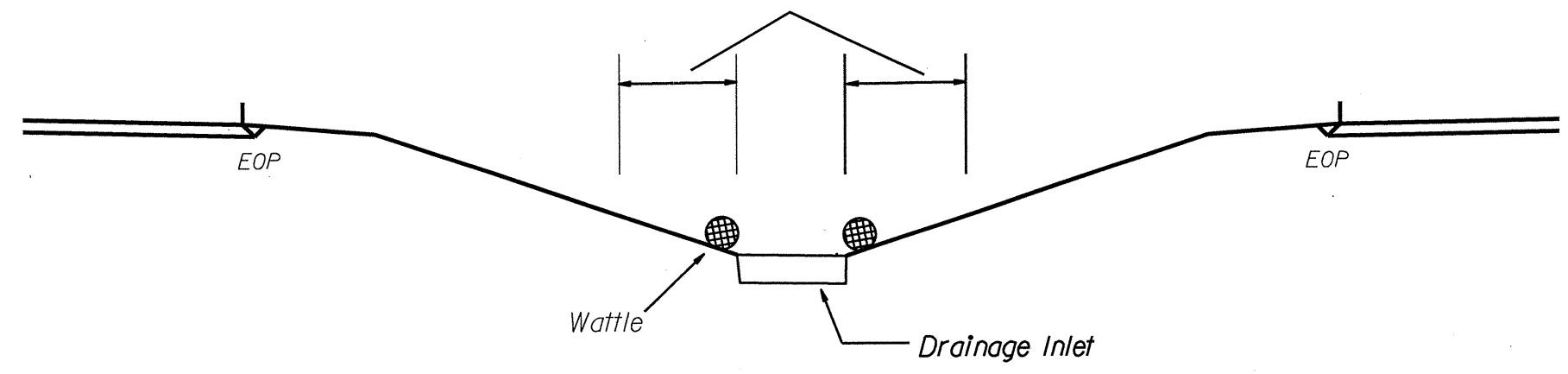
# EROSION CONTROL DETAIL



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

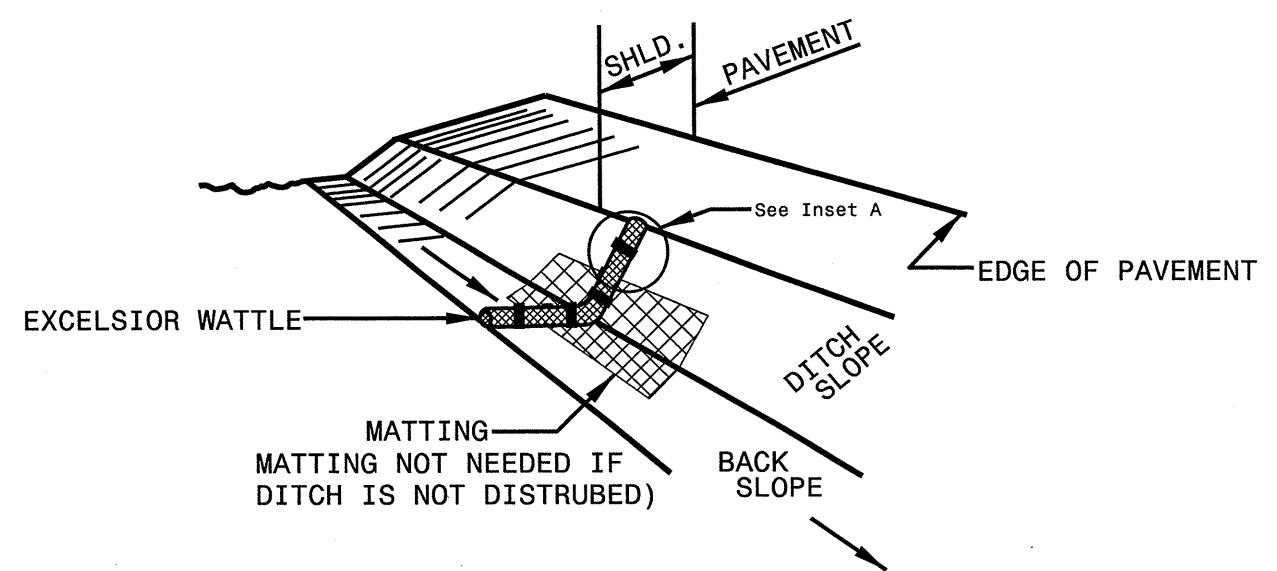


< 5' - 10' Undisturbed buffer from inlet, add wattle

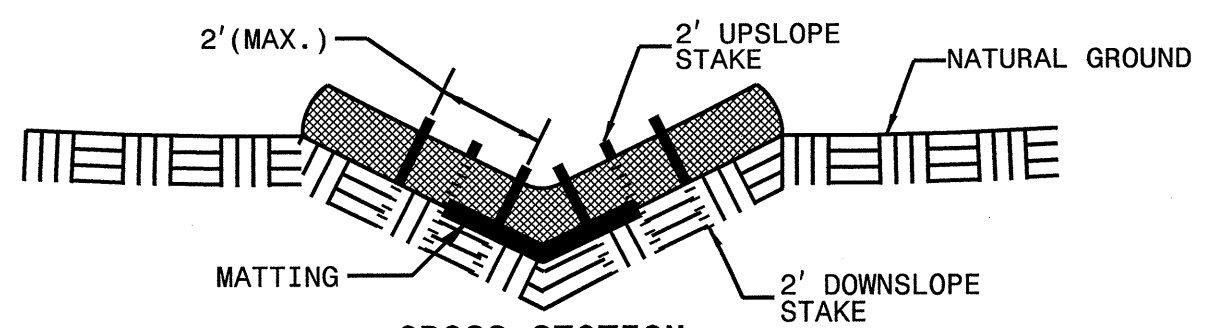


NOT TO SCALE

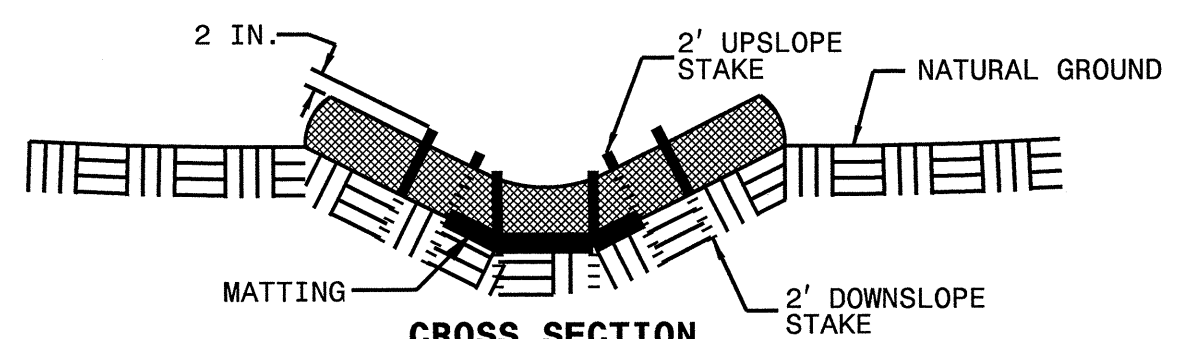
# WATTLE DETAIL



**ISOMETRIC VIEW**



**CROSS SECTION VEE DITCH**

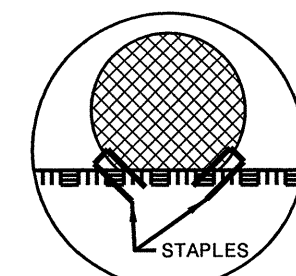


**CROSS SECTION TRAPEZOIDAL DITCH**

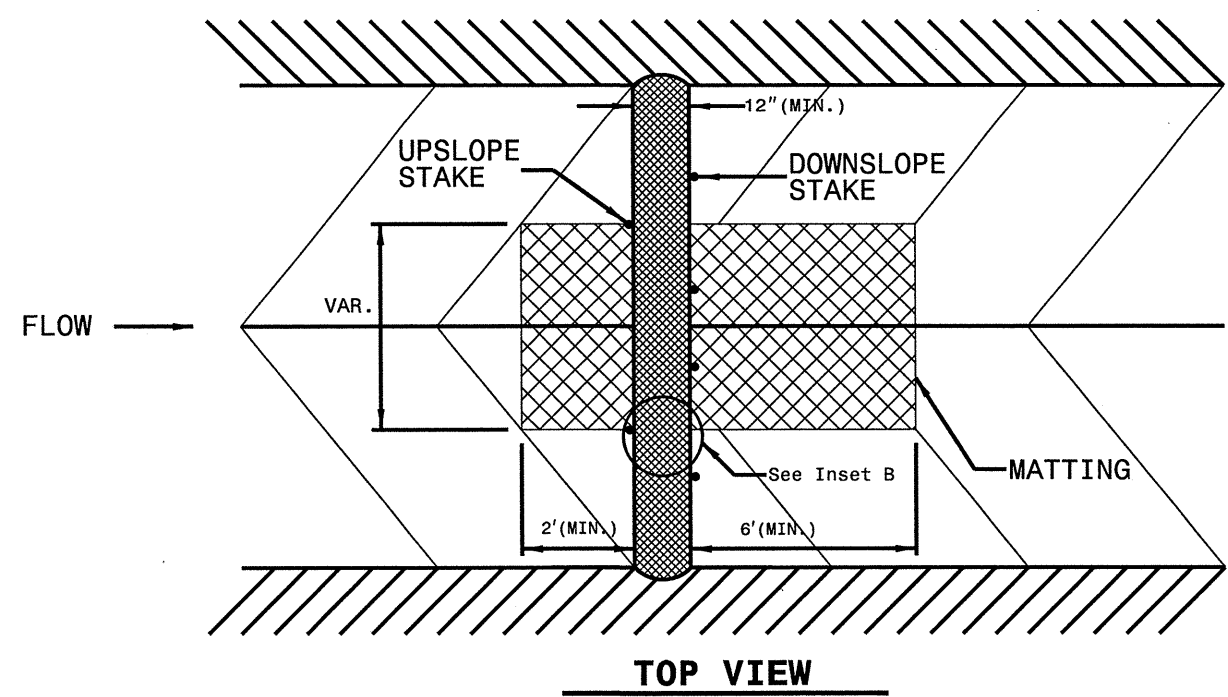
- NOTES:
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
  - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
  - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
  - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
  - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
  - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
  - IF DITCH WILL BE DISTURBED, INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



INSET B



**TOP VIEW**