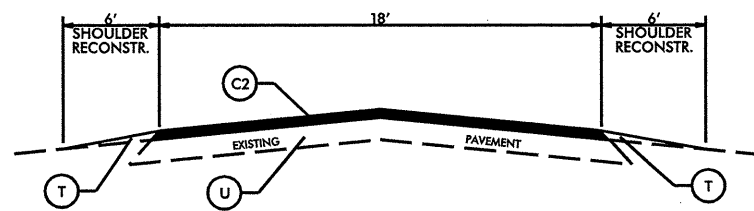
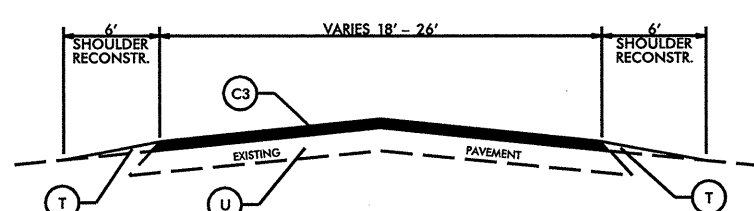


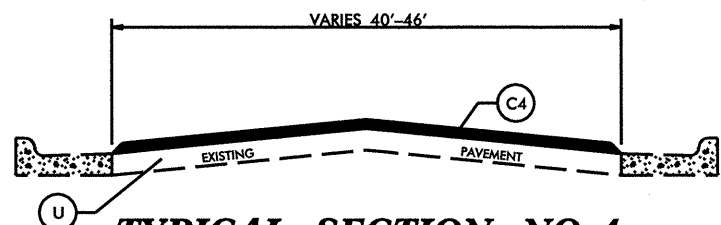
**TYPICAL SECTION NO. 1**



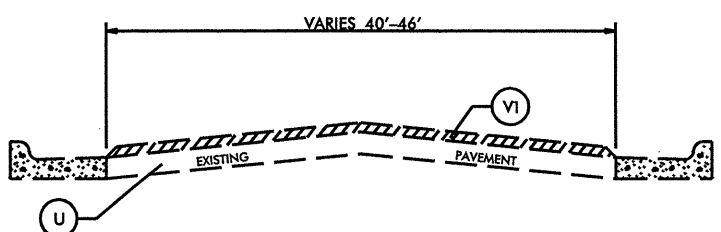
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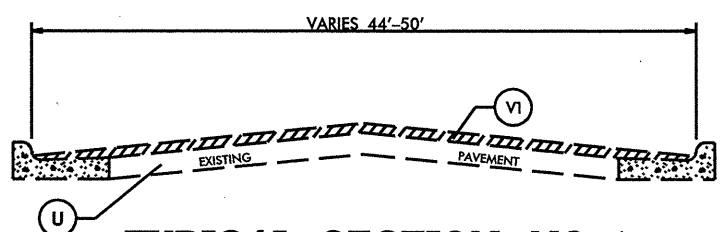
**TYPICAL SECTION NO. 3**



**TYPICAL SECTION NO. 4**

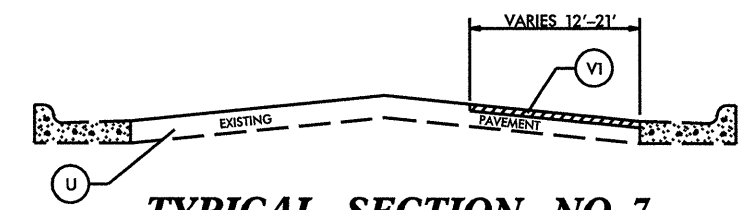


**TYPICAL SECTION NO. 5**

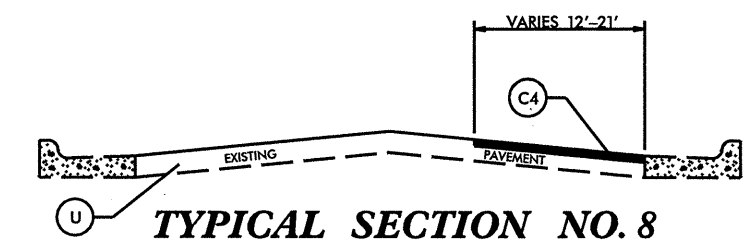


**TYPICAL SECTION NO. 6**

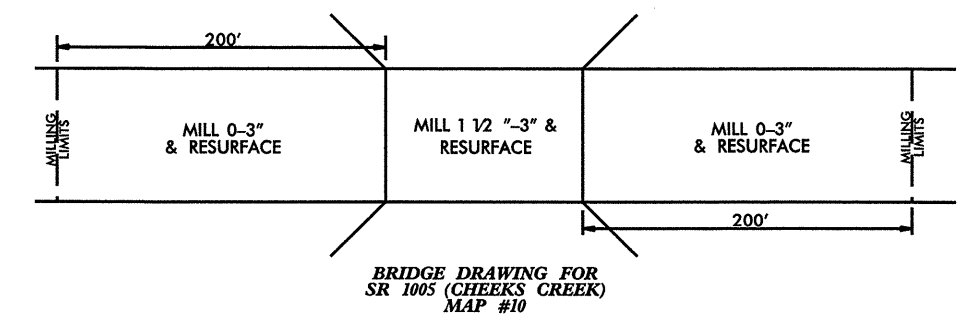
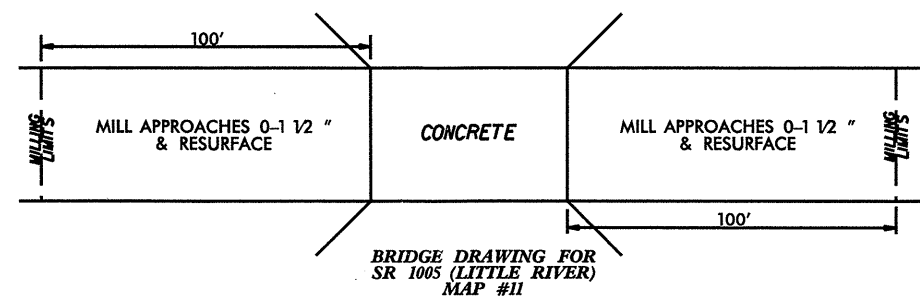
# MONTGOMERY COUNTY TYPICAL SECTIONS



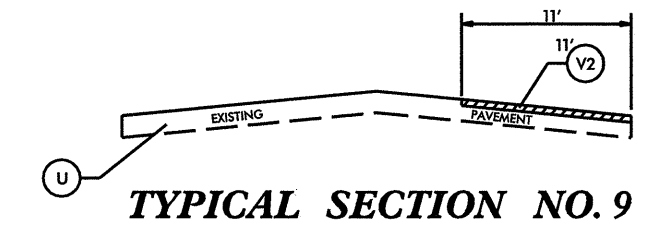
**TYPICAL SECTION NO. 7**



**TYPICAL SECTION NO. 8**

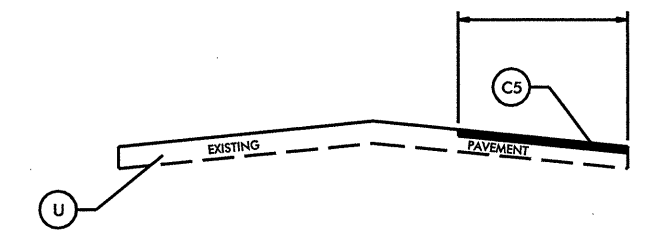


PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C4	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V1	MILLING 0" - 3" IN DEPTH.
V2	MILLING 2" IN DEPTH.



**TYPICAL SECTION NO. 9**

NOTE: OUTSIDE LANE ONLY



**TYPICAL SECTION NO. 10**

NOTE: OUTSIDE LANE ONLY

PROJECT NO.	SHEET NO.	TOTAL NO.
8CR.10621.8, 8CR.20621.8	6	

### SUMMARY OF QUANTITIES

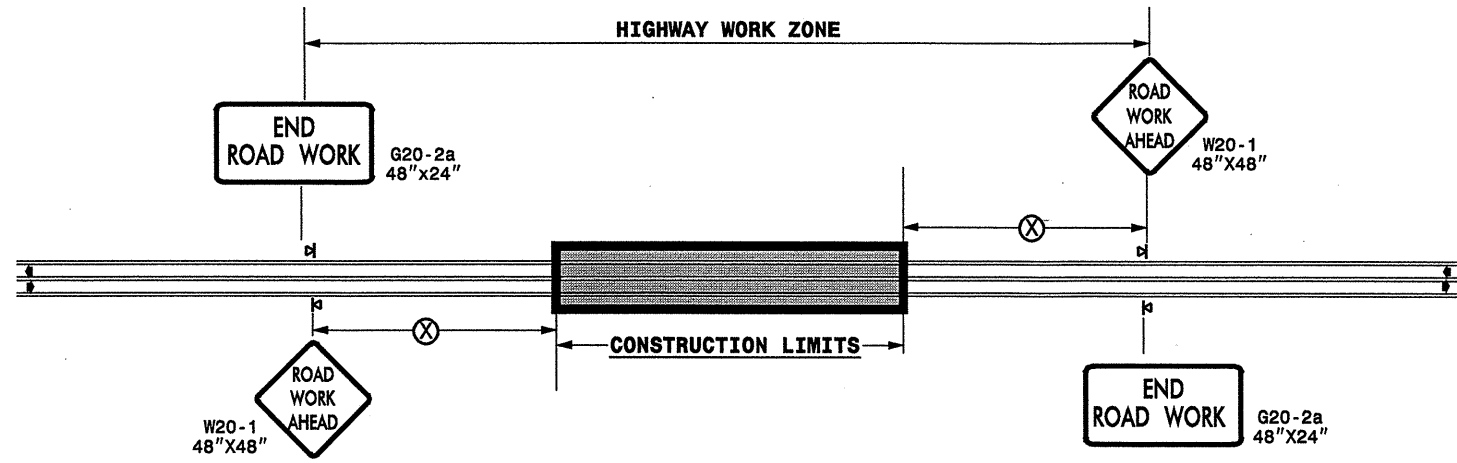
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	2" MILLING SY	0" TO 3" MILLING SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, S9.5C TONS	SURFACE COURSE, SF9.5A TON	PG 64-22 PLANT MIX TONS	PG 70-22 PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	WHEELCHAIR RAMP EA	WHEELCHAIR RAMP (RETROFIT) EA	ADJUST MANHOLES EA	AJUST METER OR VALVE BOX EA	SEED & MULCHING AC	INDUCTIVE LOOP LF
8CR.10621.8	Montgomery	1	US 220 NB	FROM US 220A TO CJ SOUTH OF NC24/27 BRIDGE	9, 10	7.92	11			51110				6,105			366							
8CR.10621.8		2	NC 109	FROM NCL OF TROY TO SR 1134	3	1.5	23	75	3			100	1835			110		10					2.20	
8CR.10621.8		3	NC 109	FROM SR 1154 TO RANDOLPH CO. LINE	3	4.5	22	225	9			100	5200			312		20					6.60	
8CR.10621.8		4	NC 24-27	FROM NC 109 BUS. TO END OF C & G	4, 5	0.52	40				14035	100		1,260			76	10		11	5	2		300
8CR.10621.8		5	NC 24-27	FROM PAVEMENT JT. TO NC 109 BUS.	4, 6	0.93	40				25000			2,250			135	15	5	40	12	4		500
8CR.10621.8		6	NC 24-27	FROM BEG. OF C & G TO PAVEMENT JT.	4	0.9	40					100		1,910			115	5		5	1			
8CR.10621.8		7	NC 24-27	FROM SR 1137 TO BRIDGE AT STANLY CO LINE	3	7.43	25	200	14.86			300	9675			581		10					10.80	
8CR.10621.8		8	NC 24-27	FROM RR CROSSING FOR 0.65 MILE WEST	7, 8	0.65	12				4600			550			33	5						
8CR.10621.8		9	NC 24-27	BEG. 360' WEST FROM RR CROSSING HEADED EAST TO RR CROSSING	7, 8	0.07	21				865			105			6	5						300
<b>TOTAL FOR PROJ NO. 8CR.10621.8</b>						<b>24.42</b>		<b>500</b>	<b>26.86</b>	<b>51110</b>	<b>44500</b>	<b>700</b>	<b>16710</b>	<b>12,180</b>		<b>1,003</b>	<b>731</b>	<b>80</b>	<b>5</b>	<b>56</b>	<b>18</b>	<b>6</b>	<b>19.60</b>	<b>1,100</b>
8CR.20621.8	Montgomery	10	SR 1005	FROM NC 731 TO RICHMOND CO. LINE	2	2.42	18	120	4.84		1425	100	4585			275		30					3.50	
8CR.20621.8		11	SR 1005	FROM SR 1565 TO SR 1578	3	1.91	18	95	3.82		600	100	1805			108		10					2.80	
8CR.20621.8		12	SR 1519	FROM US 220A TO SR 1554	1	5.82	22	300	11.64			100			5,500		357	20					8.50	
<b>TOTAL FOR PROJ NO. 8CR.20621.8</b>						<b>10.15</b>		<b>515</b>	<b>20.3</b>	<b>0</b>	<b>2025</b>	<b>300</b>	<b>6390</b>		<b>5,500</b>	<b>740</b>		<b>60</b>					<b>14.80</b>	
<b>GRAND TOTAL</b>						<b>34.57</b>		<b>1015</b>	<b>47.16</b>	<b>51,110</b>	<b>46,525</b>	<b>1,000</b>	<b>23,100</b>	<b>12,180</b>	<b>5,500</b>	<b>1,743</b>	<b>731</b>	<b>140</b>	<b>5</b>	<b>56</b>	<b>18</b>	<b>6</b>	<b>34.40</b>	<b>1,100.00</b>

PROJECT NO.	SHEET NO.	TOTAL NO.
8CR.10621.8, 8CR.20621.8	7	

## THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4685000000-E	4686000000-E	4695000000-E	4705000000-E	4710000000-E	4721000000-E	4725000000-E			4810000000-E		4900000000-N			
					4" X 90 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	8" X 90 M YELLOW THERMO LF	16" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO RXR 120 M EA	THERMO LT ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	THERMO STR ARROW 90 M EA	THERMO RT ARROW 90 M EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	YELLOW & YELLOW MARKERS EA	CYAN & RED MARKERS EA
8CR.10621.8	Montgomery	1	US 220 NB	FROM US 220A TO CJ SOUTH OF NC24/27 BRIDGE															
8CR.10621.8		2	NC 109	FROM NCL OF TROY TO SR 1134	16,500	13,200											135		
8CR.10621.8		3	NC 109	FROM SR 1154 TO RANDOLPH CO. LINE	48,500	38,800											400		
8CR.10621.8		4	NC 24-27	FROM NC 109 BUS. TO END OF C & G	5,500	9,000	350	160		120		15	2		1,000	3,500	90	15	
8CR.10621.8		5	NC 24-27	FROM PAVEMENT JT. TO NC 109 BUS.	1,000	14,800	350			120		29	6	5	1,000	10,000	130	15	
8CR.10621.8		6	NC 24-27	FROM BEG. OF C & G TO PAVEMENT JT.		14,300		300				38					130		
8CR.10621.8		7	NC 24-27	FROM SR 1137 TO BRIDGE AT STANLY CO LINE	78,500	62,800		100		200		6		4	2		655	50	
8CR.10621.8		8	NC 24-27	FROM RR CROSSING FOR 0.65 MILE WEST			900								200			12	
8CR.10621.8		9	NC 24-27	BEG. 360' WEST FROM RR CROSSING HEADED EAST TO RR CROSSING		450	90		100	50	4			2	2		5	5	
<b>TOTAL FOR PROJ NO. 8CR.10621.8</b>					<b>150,000</b>	<b>153,350</b>	<b>1,690</b>	<b>560</b>	<b>100</b>	<b>490</b>	<b>4</b>	<b>88</b>	<b>8</b>	<b>11</b>	<b>4</b>	<b>2,200</b>	<b>13,500</b>	<b>1,545</b>	<b>97</b>
						<b>155,040</b>							<b>111</b>		<b>15,700</b>				
8CR.20621.8	Montgomery	10	SR 1005	FROM NC 731 TO RICHMOND CO. LINE	26,100	19,575												215	
8CR.20621.8		11	SR 1005	FROM SR 1565 TO SR 1578	20,550	15,410												170	
8CR.20621.8		12	SR 1519	FROM US 220A TO SR 1554											125,300	93,975			
<b>TOTAL FOR PROJ NO. 8CR.20621.8</b>					<b>46,650</b>	<b>34,985</b>									<b>125,300</b>	<b>93,975</b>	<b>385</b>		
						<b>34,985</b>									<b>219,275</b>				
<b>GRAND TOTAL</b>					<b>196,650</b>	<b>188,335</b>	<b>1,690</b>	<b>560</b>	<b>100</b>	<b>490</b>	<b>4</b>	<b>88</b>	<b>8</b>	<b>11</b>	<b>4</b>	<b>127,500</b>	<b>107,475</b>	<b>1,930</b>	<b>97</b>
						<b>190,025</b>							<b>111</b>		<b>234,975</b>		<b>2,027</b>		

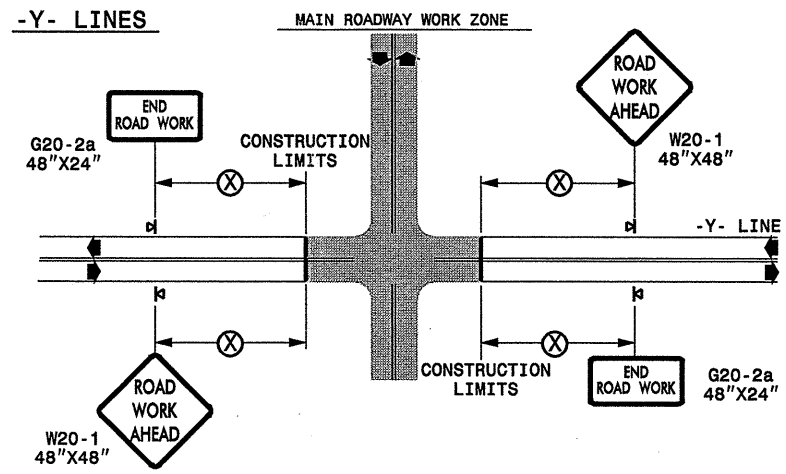
**TWO-WAY UNDIVIDED \*\* (L-LINES)**



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

**ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)**



**GENERAL NOTES**

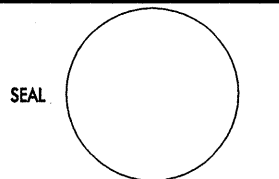
- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE PORTABLE WORK ZONE SIGNS ONLY WITH PORTABLE WORK ZONE SIGN STANDS SPECIFICALLY DESIGNED FOR ONE ANOTHER. PORTABLE WORK ZONE SIGNS MAY BE ROLL UP OR APPROVED COMPOSITE.
- PROVIDE PORTABLE WORK ZONE SIGN STANDS, PORTABLE SIGNS AND SIGN SHEETING WHICH ARE LISTED ON THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCT LIST OR ACCEPTED AS TRAFFIC QUALIFIED BY THE TRAFFIC CONTROL UNIT.
- \*\* TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

**LEGEND**

☒ PORTABLE SIGN

➔ DIRECTION OF TRAFFIC FLOW

DETAIL DRAWING  
FOR TWO-WAY UNDIVIDED  
WORK ZONE WARNING SIGNS

APPROVED: _____	DATE: _____	DETAIL DRAWING FOR TWO-WAY UNDIVIDED ADVANCED WORK ZONE WARNING SIGNS	
			
SCALE: NONE	REVISIONS		
DATE: 7-98	10/01		
DWG. BY:	10-98	03/04	
DESIGN BY:	01/01	11/04	
REVIEWED BY:			

03-DEC-2007 19:02  
 \\DOT\DP\SR001\01\GROUPS\WZTCCC\designgroup4\resur-facing\resur-facing2007\div08\c201985\_8cr106218etc\montgomery\_us220etc\c201985\_8cr106218etc\_2wayundivurbfrwysjuly2006.dgn  
 pseymore AT WZTCCC





### SP 03353

SIGN NUMBER: SP-03353	BACKG COLOR: Fluorescent Orange	DESIGN BY: CL DOWNEY	CHECKED BY: CHECKED	STD #: W20-1
TYPE: A	COPY COLOR: Black	PROJECT ID: ALL PROJECTS	DIV: DIV	DATE: Aug 20, 2003
QUANTITY: 1				
SIGN WIDTH: 4'-0"				
HEIGHT: 4'-0"				
TOTAL AREA: 16.0 Sq.Ft.				
BORDER TYPE: FLUSH				
RECESS: 0.59"				
WIDTH: 0.75"				
RADII: 1.38"				
NO. Z BARS: N/A	MAT'L:			
LENGTH: N/A				

**USE NOTES: 2, 4**

- Legend and border shall be direct applied Type VII reflective sheeting.
- Legend and border shall be direct applied non-reflective sheeting.
- Shields shall be Type VII reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
- Background shall be Type VII reflective sheeting.
- Background shall be Type I reflective sheeting.
- Center arrow(s) vertically on sign.
- Bottom panel shall be yellow Type III sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS										
Letter spacings are to start of next letter										
	B	E	G	I	N					Series/Size Text Length
22.4	5.3	4.0	5.4	2.5	3.8	22.4				C7 21.6
23.4	5	5.2	5.6	3.8	23.4					C7 19.6
22.6	5.4	5.6	5.2	4	22.6					C7 21.2

Spacing Factor is 1 unless specified otherwise

FILENAME: SP03353.DWG NORTH CAROLINA D.O.T. SIGN DETAIL

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

DETAIL DRAWING FOR  
WORK ZONE SIGNS  
BEGIN ROAD WORK

#### GENERAL NOTES FOR SIGN SP-03353 "BEGIN ROAD WORK"

- SIGN SP-03353 "BEGIN ROAD WORK" ONLY APPLIES TO FULL CONTROL AND PARTIAL CONTROL OF ACCESS ROADWAYS
- WHEN USED, INSTALL SIGN SP-03353 "BEGIN ROAD WORK" ACCORDING TO DETAIL FOR FREEWAY WORK ZONE SIGNS

APPROVED: _____	DATE: _____	DETAIL DRAWING FOR ADVANCED WORK ZONE WARNING SIGN DESIGNS	
	SCALE: NONE		REVISIONS
	DATE: 0803		0404
	DWG. BY:		1104
	DESIGN BY:		
REVIEWED BY:			

03-DEC-2007 15:19  
\\ADOT\DFSR00101\groups\WZTCCC\designgroup4\resurfacing\resurfacing2007\div08\c20985\scr\06218etc\c20985\scr\06218etc\SignDesigns\July2006.dgn  
pseyimre AT WZTCCC



STATE OF  
NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

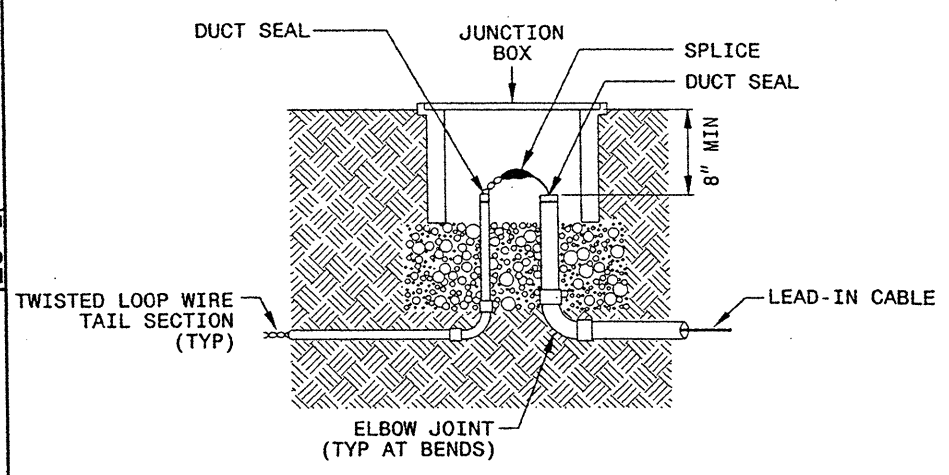
5-07

ENGLISH DETAIL DRAWING FOR  
**INDUCTIVE DETECTION LOOPS**  
LOOP WIRE DETAILS

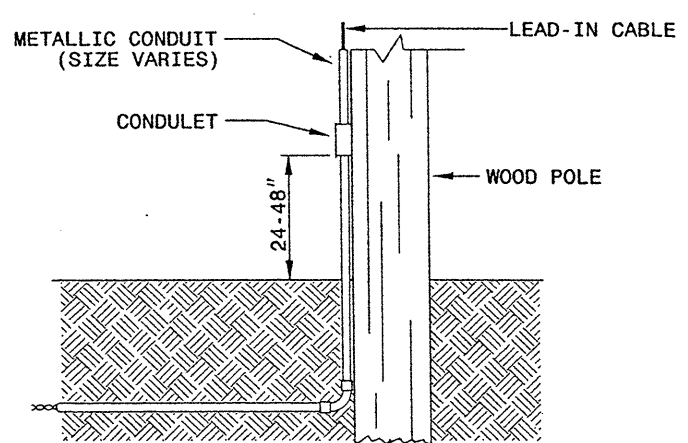
SHEET 2 OF 3  
**1725D01**

**LOOP WIRE SPLICE POINT DETAILS**

**LOOP WIRE AT JUNCTION BOX**



**LOOP WIRE AT POLE**

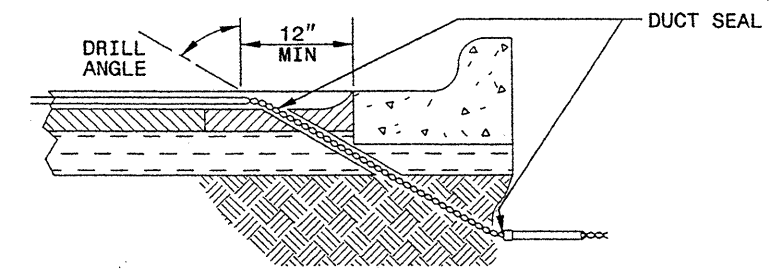


**NOTE**

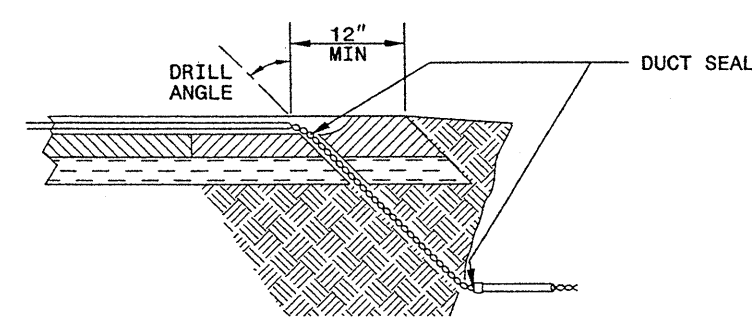
SPLICE ALL LOOP WIRE TAIL SECTIONS/LEAD-IN CABLE IN JUNCTION BOXES OR APPROVED CONDULETS.

**LOOP WIRE PAVEMENT EDGE DETAILS**

**LOOP WIRE AT CURB & GUTTER SECTION**



**LOOP WIRE AT PAVEMENT SECTION**



**NOTES**

1. DO NOT EXCAVATE UNDER CURB AND GUTTER SECTIONS FOR CONDUIT INSTALLATION.
2. TWIST LOOP WIRE TAIL SECTIONS FROM WHERE LOOP WIRE TAIL LEAVES SAW CUT TO JUNCTION BOX, INCLUDING THROUGH CONDUIT.
3. BEFORE SEALING LOOPS, INSTALL DUCT SEAL WHERE LOOP WIRE TAIL SECTION LEAVES SAW CUT IN PAVEMENT AND AT ENTRANCE OF CONDUIT TO JUNCTION BOX.

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RALEIGH, N.C.

5-07

ENGLISH DETAIL DRAWING FOR  
**INDUCTIVE DETECTION LOOPS**  
LOOP WIRE DETAILS

SHEET 2 OF 3  
**1725D01**

See Plate for Title

Prepared in the Offices of:

750 N. Greenfield Parkway  
Garner, NC 27529

SEAL

Milton I. Dean 9/5/07  
SIGNATURE DATE

06-SEP-2007 14:00  
C:\pdocuments and settings\zmlittle\dottask\topostandard metal pole sheets\1725D01\_02.mxd  
zmlittle

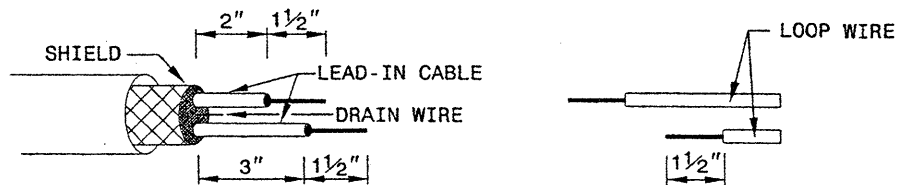
STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

5-07

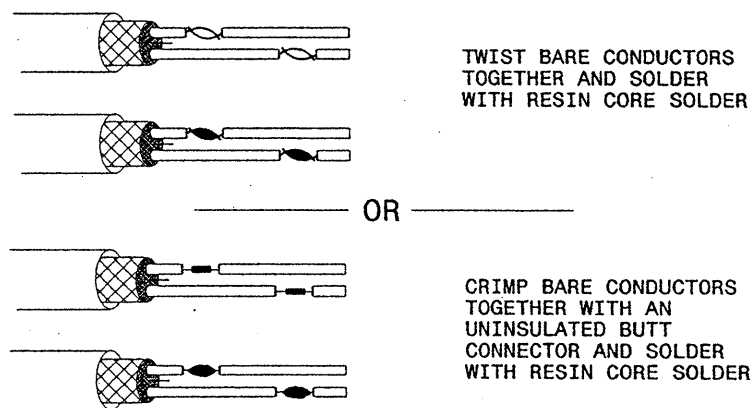
ENGLISH DETAIL DRAWING FOR  
**INDUCTIVE DETECTION LOOPS**  
SPlicing FOR LEAD-IN CABLE AND LOOP WIRE

SHEET 3 OF 3  
**1725D01**

**STEP 1. STRIP LOOP WIRE AND LEAD-IN CABLE**

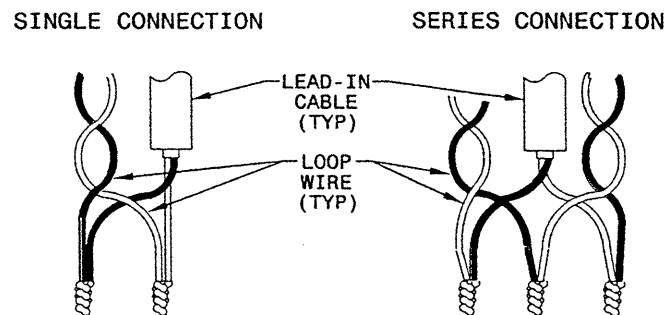


**STEP 2. CONNECT AND SOLDER**

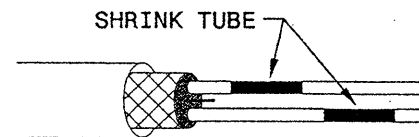


BOND SHIELD DRAIN WIRE AT SPLICE SECTIONS (DO NOT GROUND)

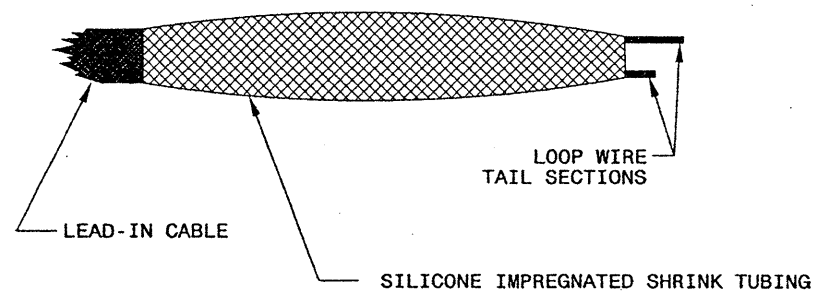
**LOOP WIRE AND LEAD-IN CABLE CONNECTION DETAILS**



**STEP 3. INSULATE EACH SOLDER JOINT SEPARATELY**



**STEP 4. ENVIRONMENTALLY PROTECT SPLICE**



STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

5-07

ENGLISH DETAIL DRAWING FOR  
**INDUCTIVE DETECTION LOOPS**  
SPlicing FOR LEAD-IN CABLE AND LOOP WIRE

SHEET 3 OF 3  
**1725D01**

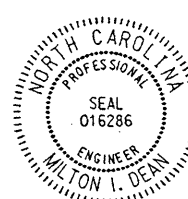
See Plate for Title

Prepared in the Office of:



750 N. Greenfield Parkway  
Garner, NC 27529

SEAL



*Milton I. Dean* 9/5/07  
SIGNATURE DATE