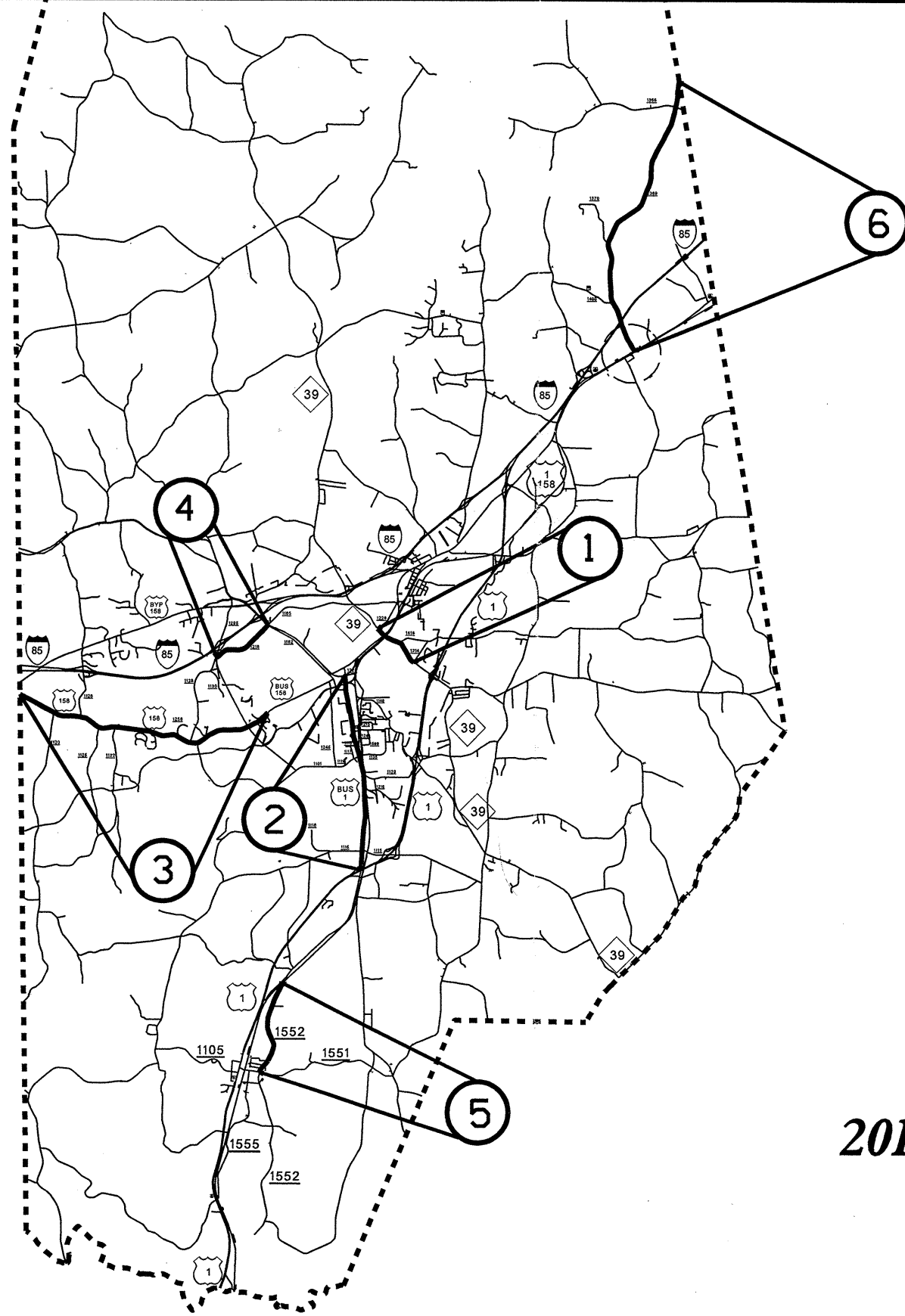


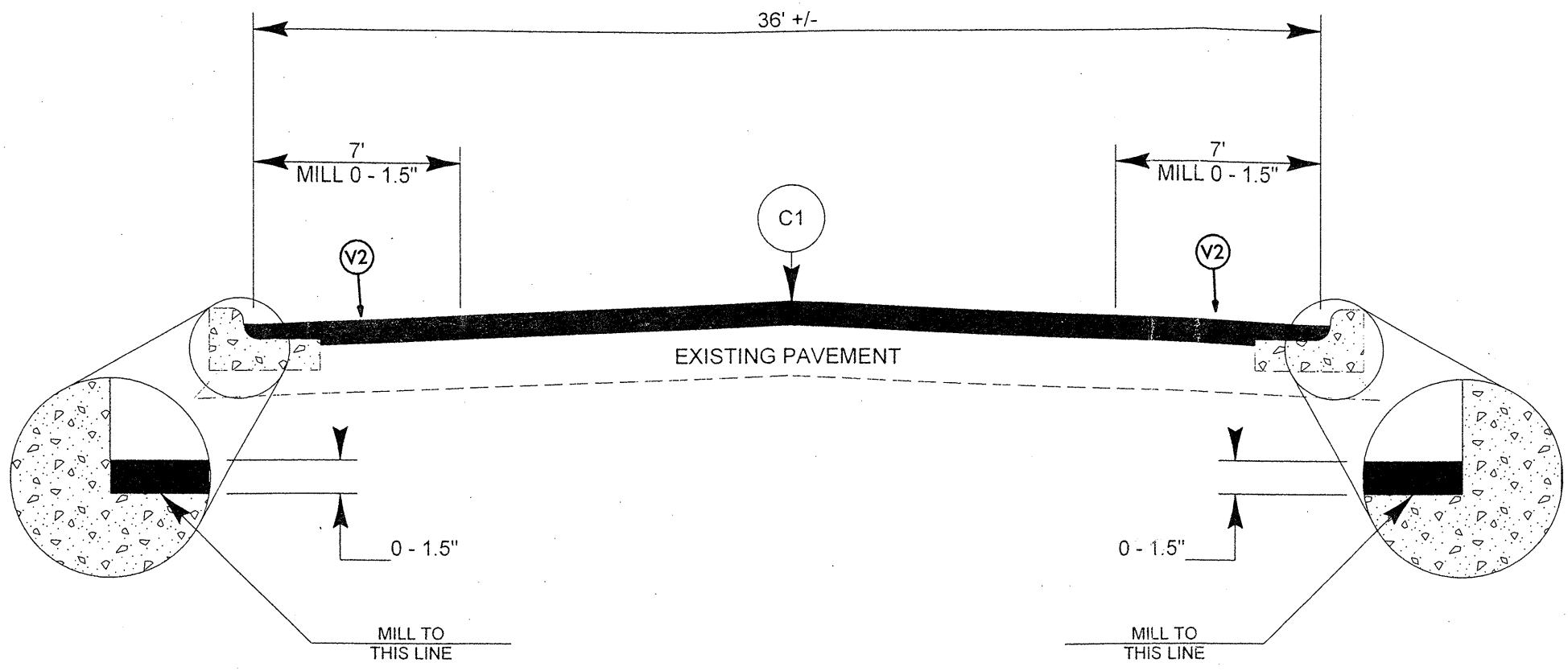
PROJECT NO.	SHEET NO.
SCR.10911.9, SCR.20911.9, SCR.20931.8	1



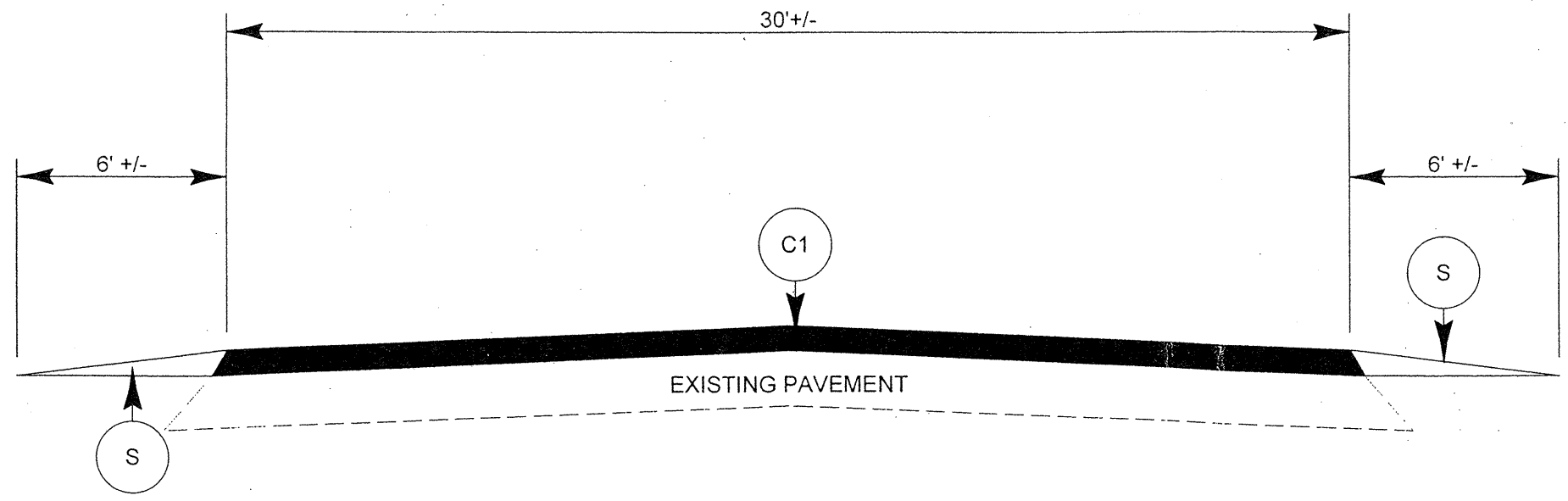
**2010 VANCE COUNTY  
RESURFACING**



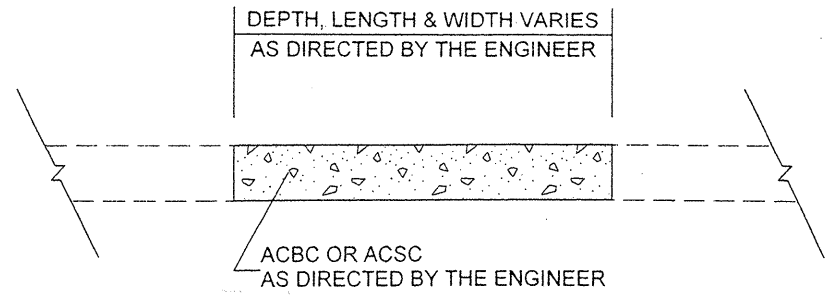
PROJECT NO. 5CR.10911.9, 5CR.20911.9, 5CR.20931.8,	SHEET NO. <b>3</b>	TOTAL SHEETS
--	-----------------------	--------------



TYPICAL SECTION NO. 1



TYPICAL SECTION NO. 2



PATCHING EXISTING PAVEMENT  
EFF. 07-18-06  
REV. 01-02-07

2006 ROADWAY ENGLISH STANDARD DRAWINGS

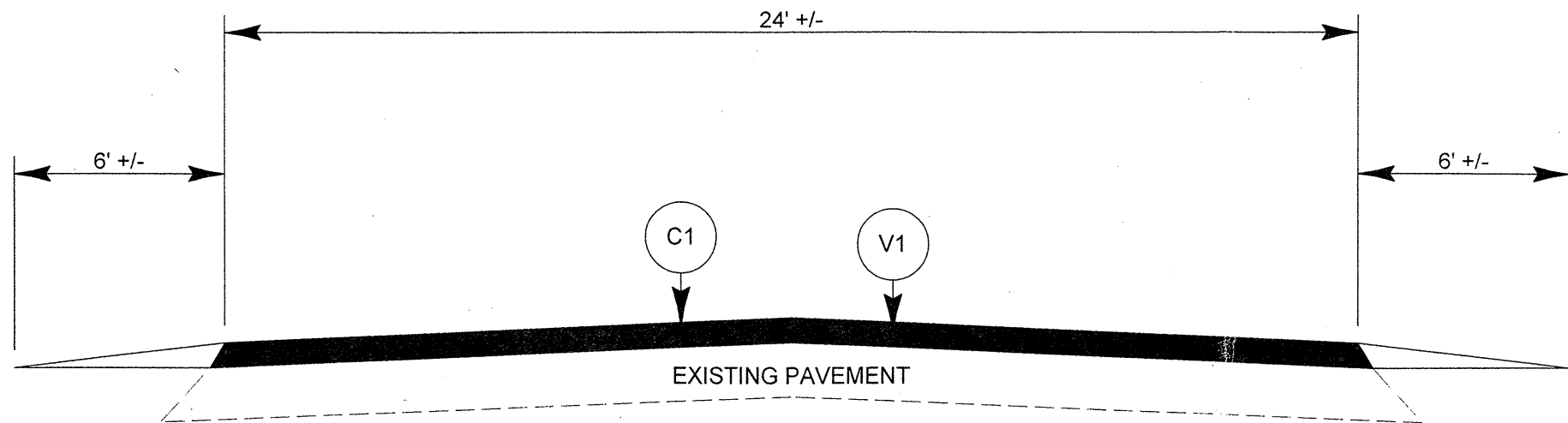
The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated July 18, 2006 are applicable to this project and by reference hereby are considered a part of these plans:

DIVISION 8 - INCIDENTALS

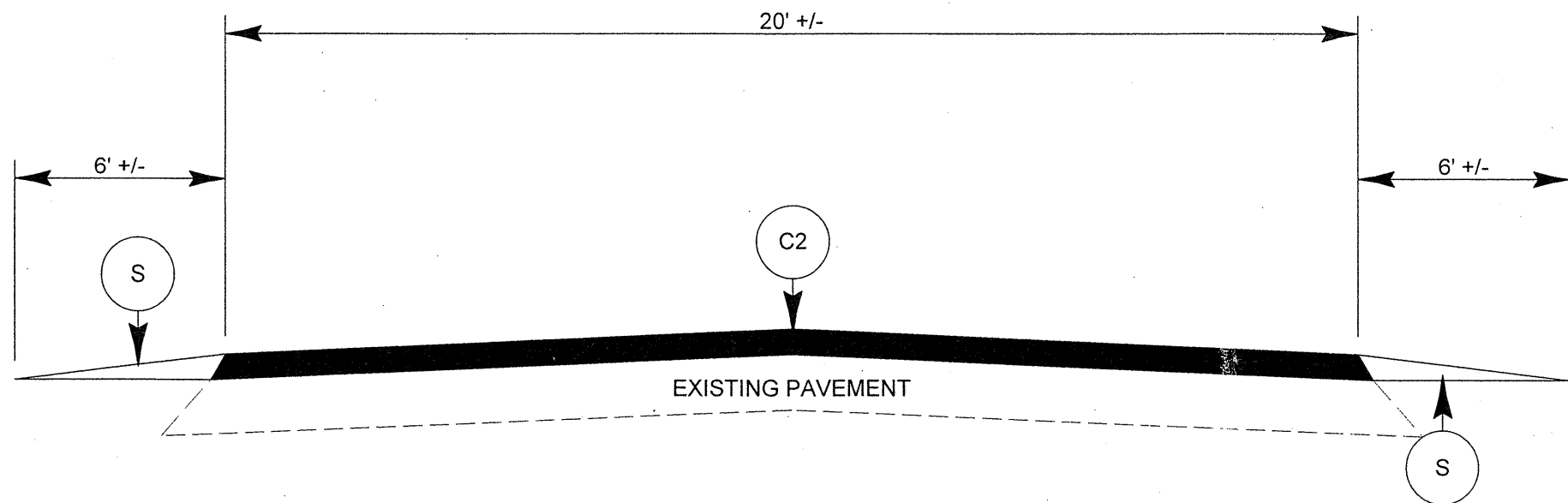
STD.NO. 848.05	TITLE Wheelchair Ramp - Curb Cut
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PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS PER SQUARE YARD
C2	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 138 LBS. PER SQUARE YARD
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE CURVE WIDENING, TYPE B25.0B AT AN AVERAGE RATE OF 627 LBS PER SQUARE YD. AS DIRECTED BY THE ENGINEER
S	SHOULDER RECONSTRUCTION/SEEDING AND MULCHING BY CONTRACTOR
V1	PROP. 1 1/2" MILLING ASPHALT PAVEMENT
V2	PROP. 0" TO 1.5" MILLING ASPHALT PAVEMENT

PROJECT NO.	SHEET NO.	TOTAL SHEETS
5CR.10911.9, 5CR.20911.9, 5CR.20931.8,	4	



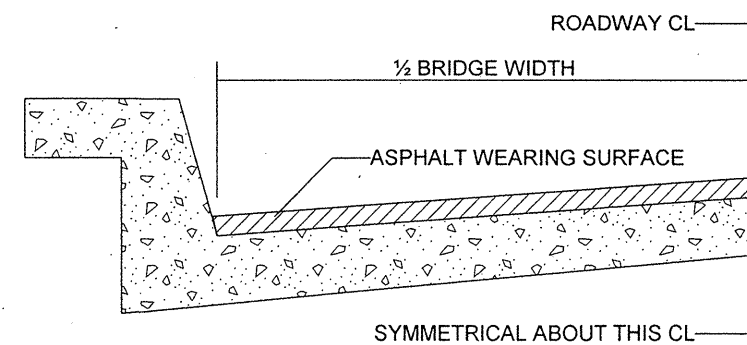
TYPICAL SECTION NO. 3



TYPICAL SECTION NO. 4

Note for Map 10: 1 1/2" milling to be used for asphalt wearing surface on bridge as directed by the Engineer.

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS PER SQUARE YARD
C2	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 138 LBS. PER SQUARE YARD
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE CURVE WIDENING, TYPE B25.0B AT AN AVERAGE RATE OF 627 LBS PER SQUARE YD. AS DIRECTED BY THE ENGINEER
S	SHOULDER RECONSTRUCTION/SEEDING AND MULCHING BY CONTRACTOR
V1	PROP. 1 1/2" MILLING ASPHALT PAVEMENT



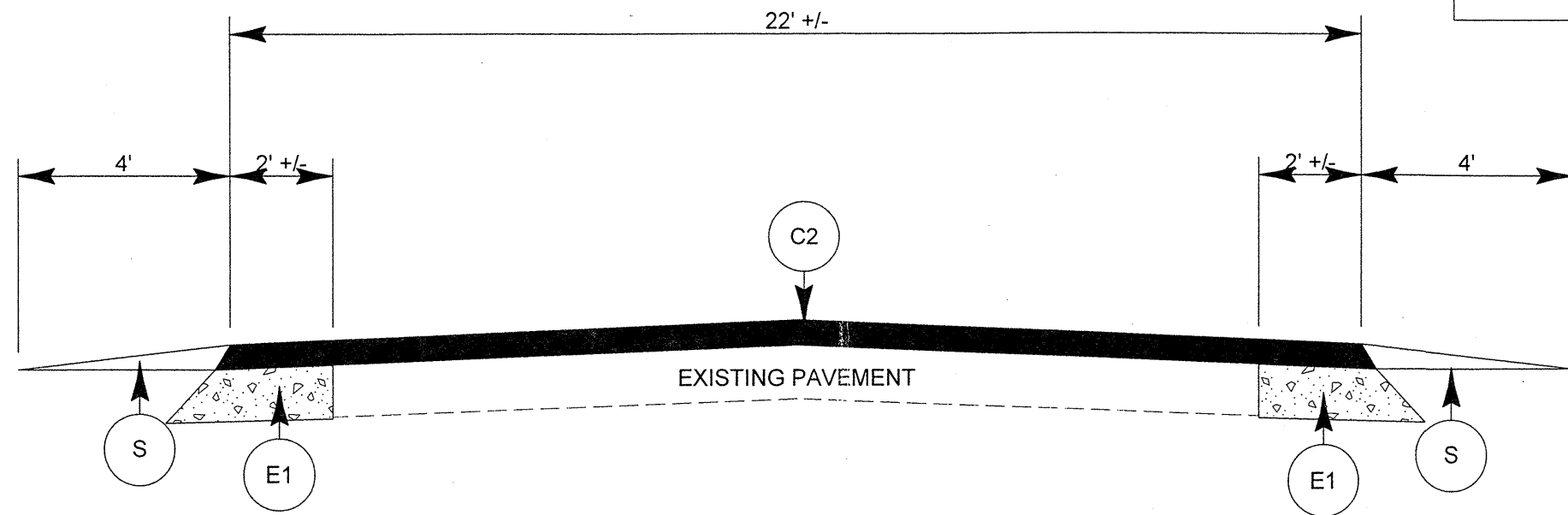
BRIDGE HALF TYPICAL SECTION

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

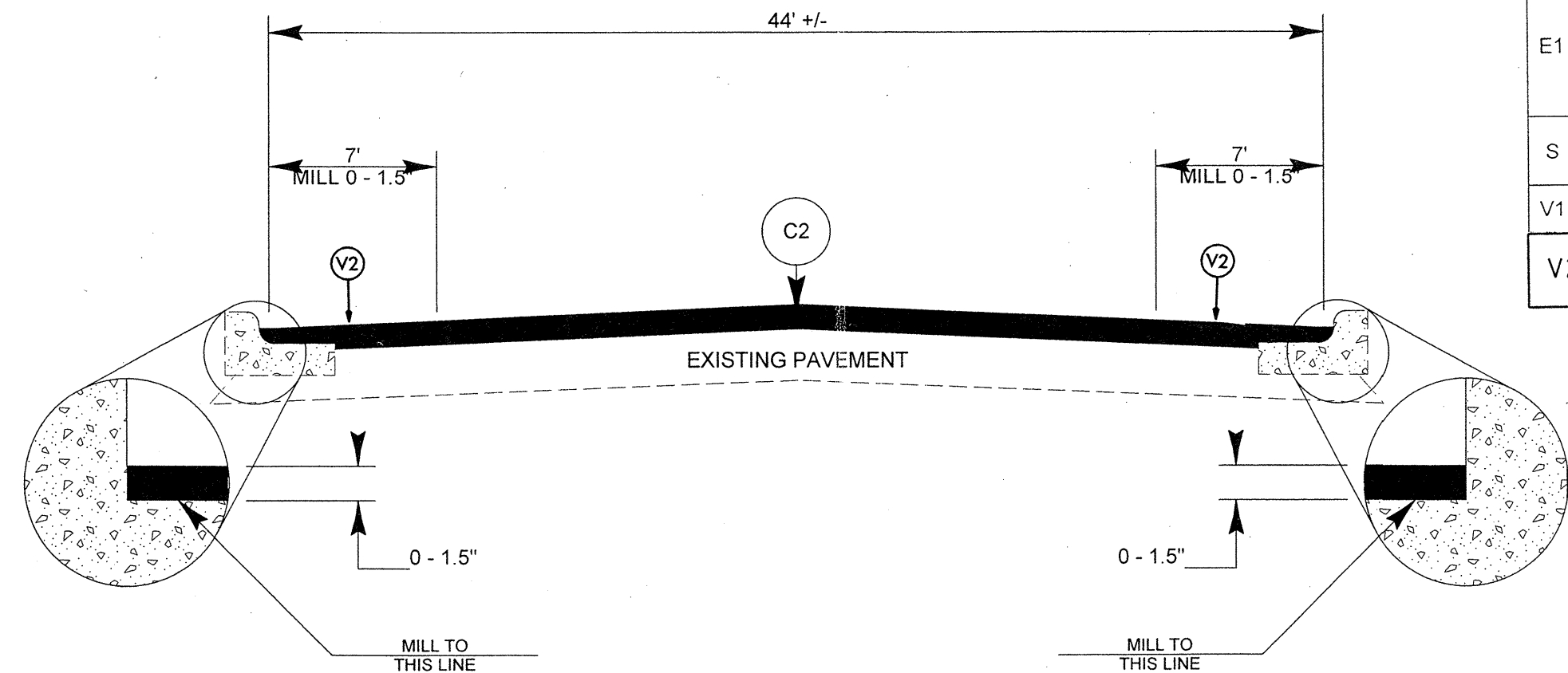
THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. THE MINIMUM THICKNESS SHOULD DEPEND ON PAVEMENT TYPE AS FOLLOWS: S4.75A 1/2", SF9.5A 1.0", S9.5X 1.5", S12.5X 2.0", ULTRATHIN HOT MIX ASPHALT-TYPE A 1/2", ULTRATHIN HOT MIX ASPHALT-TYPE B 5/8", ULTRATHIN 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.



TYPICAL SECTION NO. 5



TYPICAL SECTION NO. 6

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS PER SQUARE YARD
C2	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 138 LBS. PER SQUARE YARD
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE CURVE WIDENING, TYPE B25.0B AT AN AVERAGE RATE OF 627 LBS PER SQUARE YD. AS DIRECTED BY THE ENGINEER
S	SHOULDER RECONSTRUCTION/SEEDING AND MULCHING BY CONTRACTOR
V1	PROP. 1 1/2" MILLING ASPHALT PAVEMENT
V2	PROP. 0" TO 1.5" MILLING ASPHALT PAVEMENT

### SUMMARY OF QUANTITIES

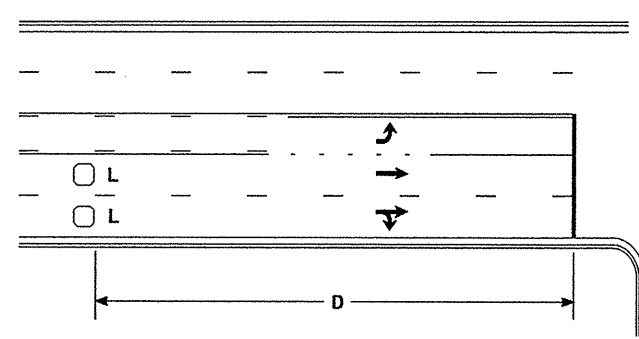
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	1 1/2" MILLING SY	0" TO 1.5" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, S9.5A TON	PG 64-22 PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	WHEELCHAIR RAMPS EA	ADJUST DROP INLET EA	ADJUST MANHOLES EA	ADJUST METER OR VALVE BOX EA	SEED & MULCHING AC	INDUCTIVE LOOP LF	LEAD-IN CABLE (14-2) LF		
5CR.10911.9	Vance	1	NC 39	FROM SR 1214 (PINKSTON) TO SR 1226 (CHESTNUT)	1	NO	0.84	38				7000	134		1,578		95	200	1		18	11		1,700	200		
TOTAL FOR MAP NO. 1							0.84					7000	134		1,578		95	200	1		18	11		1,700	200		
		2	US 1 BUS	FROM US 1 BYPASS TO SR 1228 (CHAVASSE)	1, 2	NO	3.1	30		5.6		2333	859		5,402		324	200		1	3	13	4.0	3,600	400		
TOTAL FOR MAP NO. 2							3.1			5.6		2333	859		5,402		324	200		1	3	13	4.0	3,600	400		
		3	US 158 BUS.	GRANVILLE CO LINE TO CURB AND GUTTER (OMIT OUTERLOOP AREA)	3	NO	4.4	24	106		61952				5,388		323	800				5		220	100		
TOTAL FOR MAP NO. 3							4.4		106	0	61952	0	0		5,388		323	800					5		220	100	
TOTAL FOR PROJ NO. 5CR.10911.9							8.34		106	5.6	61952	9333	993		12,368		742	1,200	1	1	21	29	4.0	5,520	700		
5CR.20911.9	Vance	4	SR 1218 (GRAHAM)	FROM SR 1162 (DABNEY) TO JOINT @ SILO GLEN REST.	4	NO	1	22	24	2			234			892	58	300			5	2	1.0	150	100		
TOTAL FOR MAP NO. 4							1		24	2	0	0	234			892	58	300				5	2	1.0	150	100	
		5	SR 1552 (N. CHAVIS)	FROM US 1 BUS. TO SR 1551 (MAIN ST.)	5	NO	1.75	24	42	3.5			534	40		1,701	112	100				4	1.7				
TOTAL FOR MAP NO. 5							1.75		42	3.5	0	0	534	40		1,701	112	100						4	1.7		
		6	SR 1369 (JACKSONTOWN)	FROM US 1/158 TO WARREN CO. LINE	5, 6	NO	4.97	22	119	9.7		1167	234	350		4,431	303	410	2		1		4.7				
TOTAL FOR MAP NO. 6							4.97		119	9.7	0	1167	234	350		4,431	303	410	2		1			1	4.7		
TOTAL FOR PROJ NO. 5CR.20911.9							7.72		185	15.2	0	1167	1002	390		7,024	473	810	2	2	6	6	7.4	150	100		
5CR.20931.8	Warren	7	SR 1001 (M.L. KING BLVD)	FROM VANCE CO LINE TO SR 1115 (FATE WEAVER RD)	5	NO	3.25	24	78	6.5			209	250		3,160	216	200					4.7				
TOTAL FOR MAP NO. 7							3.25		78	6.5	0	0	209	250		3,160	216	200							4.7		
		8	SR 1200 (DREWRY RD)	FROM VANCE CO. LINE TO SR 1203 (SPAIN RD.)	4	NO	3.75	22	90	7.5			209			3,343	217	50					4.5				
TOTAL FOR MAP NO. 8							3.75		90	7.5	0	0	209	0		3,343	217	50								4.5	
		9	SR 1336 (HUBQUARTER)	FROM SR 1347 (CURRIN) TO SR 1721 (RIDGESHORE CT.)	4	NO	1.56	20	37	3.12			92			1,265	82	200					1.9				
TOTAL FOR MAP NO. 9							1.56		37	3.12	0	0	92	0		1,265	82	200								1.9	
		10	SR 1640 (RABBIT BOTTOM RD.)	FROM SR 1629 (OLD MAPLE) TO HALIFAX CO. LINE	4	NO	5.8	21	139	11.6	500		234			4,937	321	400					7.0				
TOTAL FOR MAP NO. 10							5.8		139	11.6	500	0	234	0		4,937	321	400								7.0	
TOTAL FOR PROJ NO. 5CR.20931.8							14.36		344	28.72	500	0	744	250		12,705	836	850								18.1	
GRAND TOTAL							30.42		635	49.52	62,452	10,500	2,739	640	12,368	19,729	2,051	2,860	3	1	27	35	29.5	5,670	800		

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4685000000-E										4725000000-E				4810000000-E		4835000000-E		4900000000-N					
					4" X 90 M WHITE THERMO LF	4" X 90 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	8" X 90 M WHITE 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 RT ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	THERMO STR ARROW 90 M EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	24" WHITE PAINT LF	YELLOW & YELLOW MARKERS EA	CRYSTAL & RED MARKERS EA								
5CR.10911.9	Vance	1	NC 39	FROM SR 1214 (PINKSTON) TO SR 1226 (CHESTNUT)	900		9,800	150		270				21	2	10	2								165	15		
TOTAL FOR MAP NO. 1					900		9,800	150		270				21	2	10	2								165	15		
		2	US 1 BUS	FROM US 1 BYPASS TO SR 1228 (CHAVASSE)	39,500		42,000	420	150	775	6	65	9	17	1										515	100		
TOTAL FOR MAP NO. 2					39,500		42,000	420	150	775	6	65	9	17	1										515	100		
		3	US 158 BUS.	GRANVILLE CO LINE TO CURB AND GUTTER (OMIT OUTERLOOP AREA)	47,344	900	46,000	100		50				2	4								47,344	46,900	50	290	20	
TOTAL FOR MAP NO. 3					47,344	900	46,000	100		50				2	4								47,344	46,900	50	290	20	
TOTAL FOR PROJ NO. 5CR.10911.9					87,744	900	97,800	670	150	1,095	6	88	15	27	3									47,344	46,900	50	970	135
					88,644										133				94,244		1,105							
5CR.20911.9	Vance	4	SR 1218 (GRAHAM)	FROM SR 1162 (DABNEY) TO JOINT @ SILO GLEN REST.	10,760		10,760			24				1														
TOTAL FOR MAP NO. 4					10,760		10,760			24				1														
		5	SR 1552 (N. CHAVIS)	FROM US 1 BUS. TO SR 1551 (MAIN ST.)	18,830		18,830		100	74	4																	
TOTAL FOR MAP NO. 5					18,830		18,830		100	74	4																	
		6	SR 1369 (JACKSONTOWN)	FROM US 1/158 TO WARREN CO. LINE																					328			
TOTAL FOR MAP NO. 6																									328			
TOTAL FOR PROJ NO. 5CR.20911.9					29,590		29,590		100	98	4	1													328			
					29,590										2						328							
5CR.20931.8	Warren	7	SR 1001 (M.L. KING BLVD)	FROM VANCE CO LINE TO SR 1115 (FATE WEAVER RD)	34,970		41,000																		215			
TOTAL FOR MAP NO. 7					34,970		41,000																		215			
		8	SR 1200 (DREWRY RD)	FROM VANCE CO. LINE TO SR 1203 (SPAIN RD.)	40,350		24,750																		248			
TOTAL FOR MAP NO. 8					40,350		24,750																		248			
		9	SR 1336 (HUBQUARTER)	FROM SR 1347 (CURRIN) TO SR 1721 (RIDGESHORE CT.)	16,786		10,296																					
TOTAL FOR MAP NO. 9					16,786		10,296																					
		10	SR 1640 (RABBIT BOTTOM RD.)	FROM SR 1629 (OLD MAPLE) TO HALIFAX CO. LINE	62,408		38,280																					
TOTAL FOR MAP NO. 10					62,408		38,280																					
TOTAL FOR PROJ NO. 5CR.20931.8					154,514		114,326																		463			
					154,514														463									
GRAND TOTAL					271,848	900	241,716	670	250	1,193	10	89	15	28	3	47,344	46,900	50	1,761	135								
					272,748										135				94,244		1,896							



### High Speed Detection [≥40 mph (64 km/hr)]

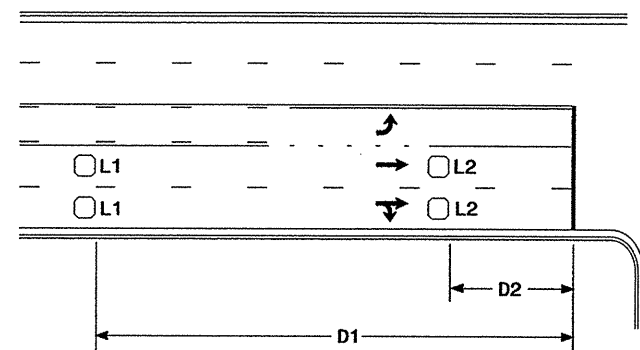


Speed Limit mph (km/hr)	D ft (m)
40 (64)	250 (75)
45 (72)	300 (90)
50 (80)	355 (110)
55 (88)	420 (130)

L = 6ft X 6ft (1.8m X 1.8m)  
Wired in series for TS1  
Controllers  
Wired separately for TS2,  
170, and 2070L Controllers

Volume Density Operation

OR



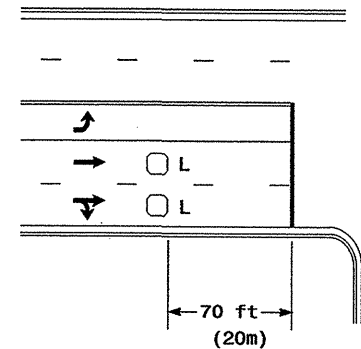
Speed Limit mph (km/hr)	D1 ft (m)	D2 ft (m)
40 (64)	250 (75)	80 (25)
45 (72)	300 (90)	90 (27)
50 (80)	355 (110)	100 (30)
55 (88)	420 (130)	110 (35)

L1 = 6ft X 6ft  
(1.8m X 1.8m)  
Wired in series  
L2 = 6ft X 6ft  
(1.8m X 1.8m)  
Wired in series

"Stretch" Operation

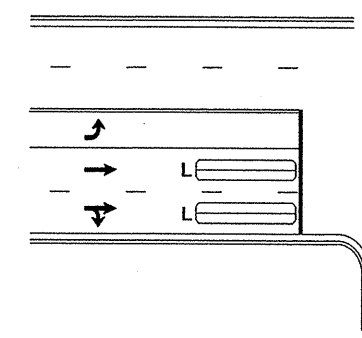
### Low Speed Detection [≤35 mph (56 km/hr)]

5CR.10911.9, 5CR.20911.9 & 5CR.20931.8



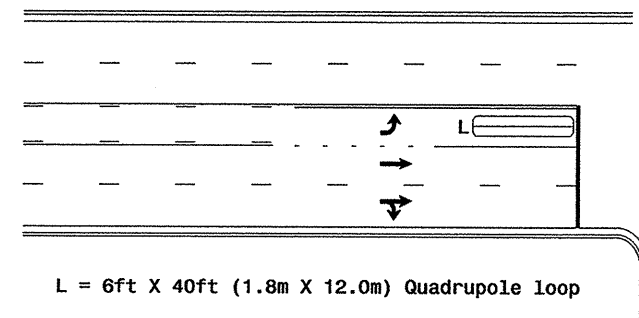
L = 6ft X 6ft (1.8m X 1.8m)  
Wired in series

OR



L = 6ft X 40ft (1.8m X 12.0m)  
Quadrupole loop, wired separately

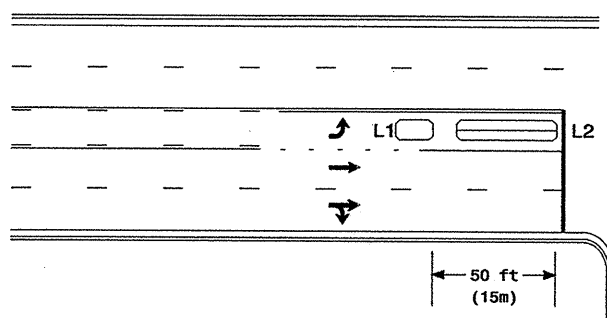
### Left Turn Lane Detection



L = 6ft X 40ft (1.8m X 12.0m) Quadrupole loop

Presence Loop Detection

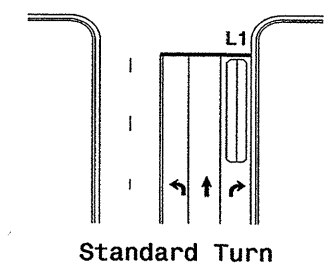
OR



L1 = 6ft X 15ft (1.8m X 4.6m) Queue detector  
L2 = 6ft X 40ft (1.8m X 12.0m) Quadrupole loop

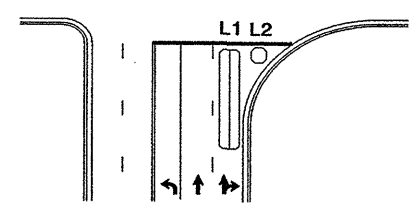
Queue Loop Detection

### Right Turn Lane Detection

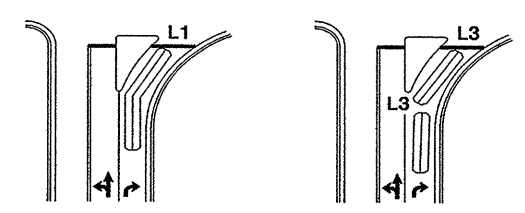


Standard Turn

L1 = 6ft X 40ft (1.8m X 12.0m) Quadrupole loop  
L2 = 6ft X 6ft (1.8m X 1.8m) [Minimum] Presence loop  
Wired separately  
L3 = 6ft X 20ft (1.8m X 6.0m) Quadrupole loop  
Wired in series

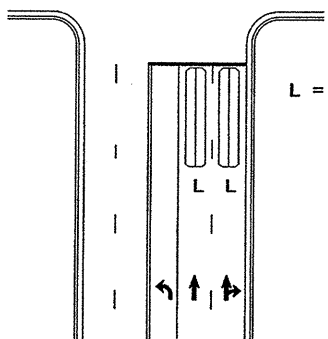


Wide Radius Turn



Channelized Turn

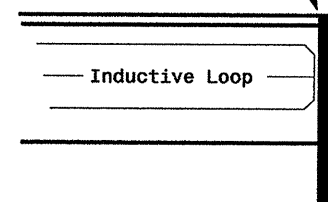
### Side Street Detection



L = 6ft X 40ft (1.8m X 12.0m)  
Quadrupole loop  
Wired to separate  
detectors/channels

### Presence Loop Placement at Stop Lines

Locate loop slightly  
behind leading  
edge of stop line



Note:  
Loop may be located in advance  
of stop line when stop line is  
greater than 15' (4.5m) from edge  
of intersecting roadway; or, when  
loop detects a permissive or  
protected/permissive left turn.

### Recommended Number of Turns

Single 6' X 6' (1.8m X 1.8m)  
loop (wired separately):

Length of Lead-in ft (m)	Number of Turns
< 250 (75)	3
250-375 (75-115)	4
375-525 (115-160)	5
> 525 (160)	6

Quadrupole loops: Use 2-4-2 turns

6' X 15' (1.8m X 4.6m) Loops:  
Lead-in < 150' (45 m), use 2 turns  
Lead-in > 150' (45 m), use 3 turns

	<p>Typical Loop Locations</p>		
	<p>PLAN DATE: June 2006</p>	<p>REVIEWED BY:</p>	
<p>PREPARED BY: P. L. Alexander</p>	<p>REVIEWED BY:</p>	<p>INIT. DATE</p>	<p>SIGNATURE DATE</p>
<p>122 N. McDowell St., Raleigh, NC 27603</p>	<p>REVISIONS</p>	<p>DATE</p>	<p>SIG. INVENTORY NO.</p>

19-DEC-2006 14:29  
s:\projects\signal\lib\turn\_in\misc\loop\lca\2006.dgn  
p.l.alexander



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

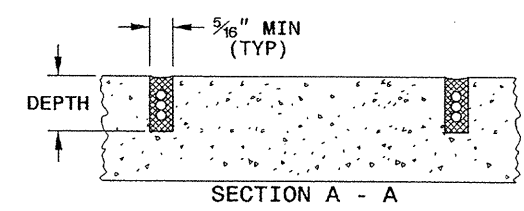
11-08

ENGLISH DETAIL DRAWING FOR  
**INDUCTIVE DETECTION LOOPS**

SHEET 1 OF 3  
**1725D01**

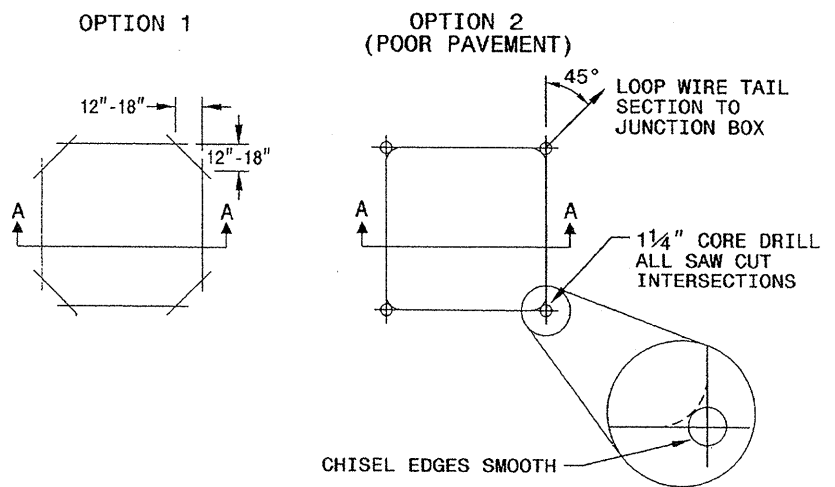
**SAW SLOT DEPTH CHART**

DEPTH (IN)	NO. OF WIRE TURNS				
	2	3	4	5	6
CONCRETE	2.0	2.0	2.5	2.5	3.0
ASPHALT	2.0	2.5	3.0	3.0	3.0

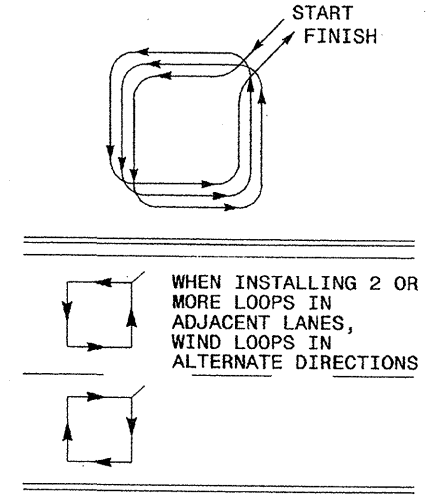


**CONVENTIONAL 4-SIDED LOOP**

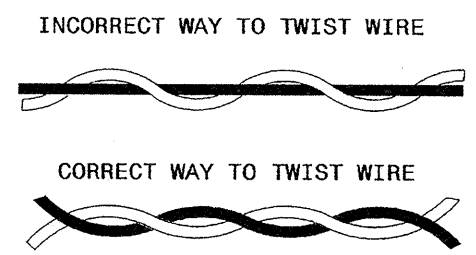
**SAW CUT OPTIONS**



**LOOP WINDING METHOD**



**LOOP WIRE TWISTING METHOD**

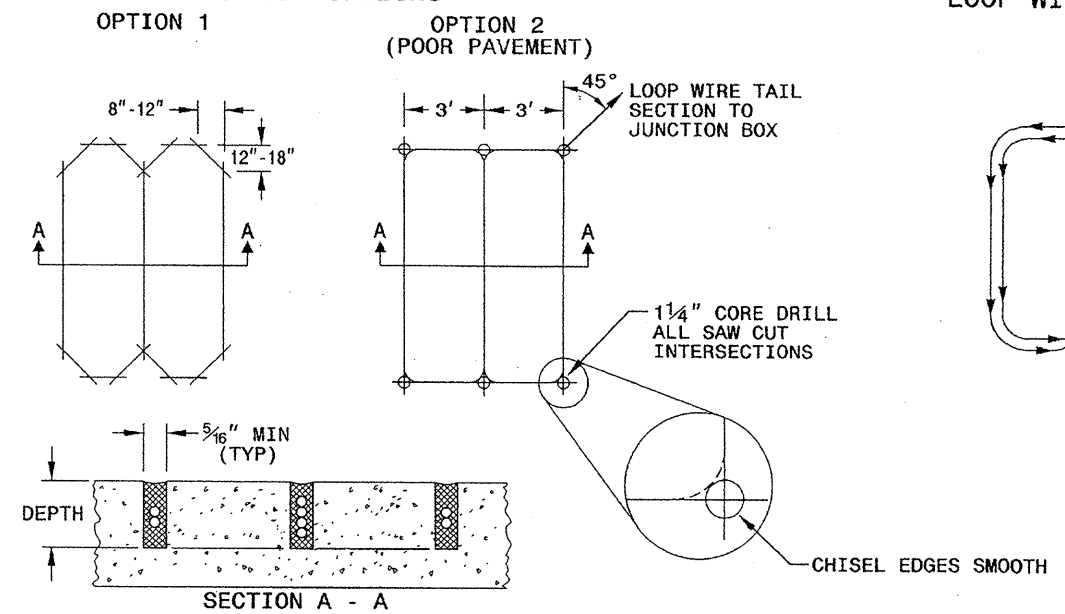


**NOTES**

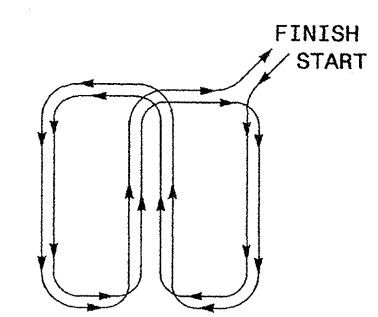
1. OVERLAP SAW CUTS AT CORNERS AND INTERSECTION POINTS TO ENSURE UNIFORM SAW SLOT DEPTH.
2. MAINTAIN 12" SPACING BETWEEN LOOP WIRE TAIL SECTIONS.
3. WIRE LOOPS CONNECTED TO THE SAME DETECTOR CHANNEL IN SERIES.
4. LOCATE LOOPS IN CENTER OF LANES UNLESS OTHERWISE SHOWN ON PLANS OR APPROVED BY ENGINEER.

**QUADRUPOLE LOOP**

**SAW CUT OPTIONS**



**LOOP WINDING METHOD**



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ENGLISH DETAIL DRAWING FOR  
**INDUCTIVE DETECTION LOOPS**

SHEET 1 OF 3  
**1725D01**

See Plate for Title

Prepared in the Offices of:

750 N. Greenfield Parkway  
 Garner, NC 27529

SEAL

WILTON J. DEAN  
 ENGINEER

Signature: *Wilton J. Dean* 4/24/08  
 DATE

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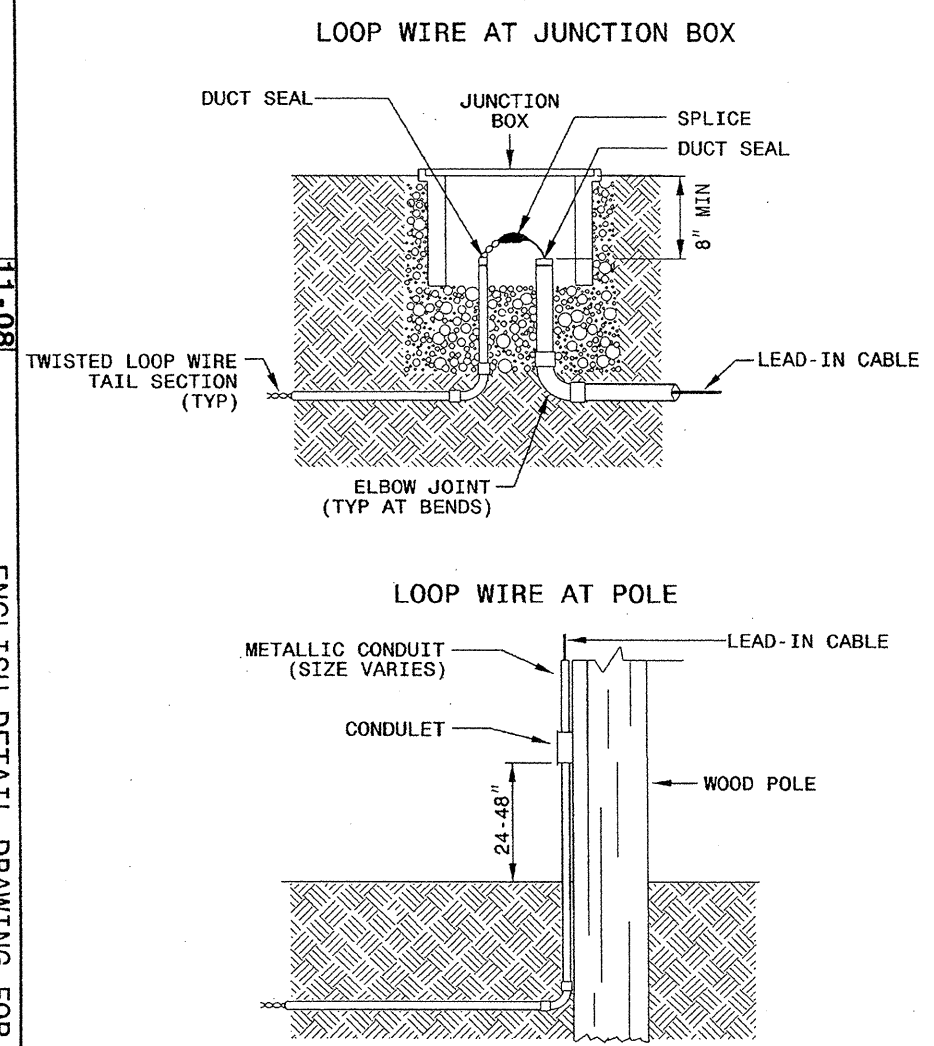
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 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

11-08

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

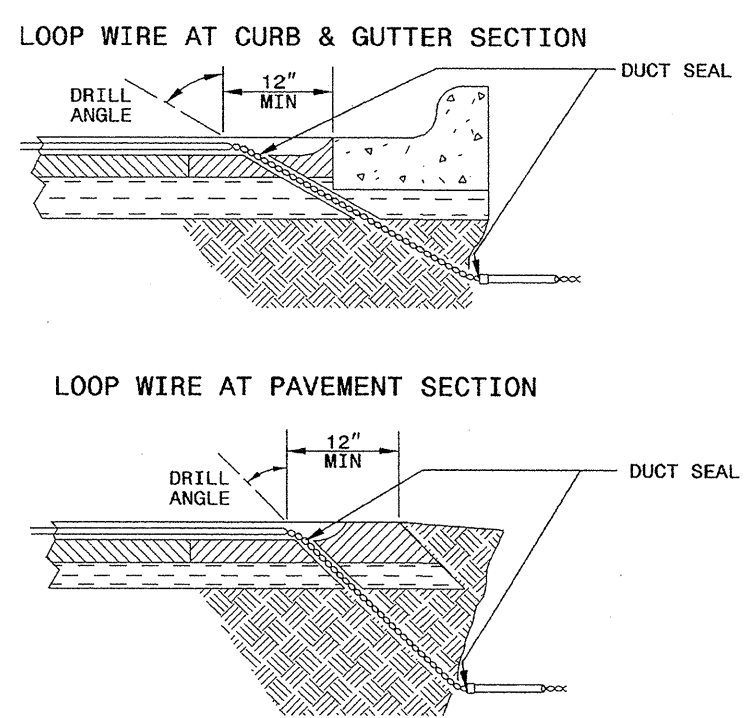
SHEET 2 OF 3  
**1725D01**

**LOOP WIRE SPLICE POINT DETAILS**



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

**LOOP WIRE PAVEMENT EDGE DETAILS**



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

SHEET 2 OF 3  
**1725D01**

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Milton I. Dean 11/24/08  
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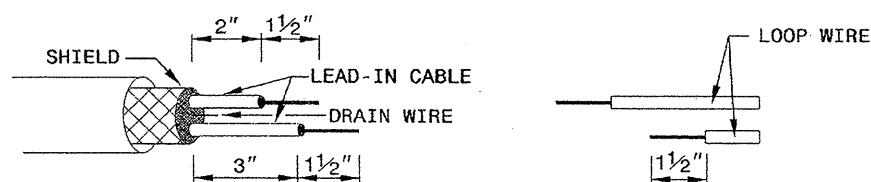
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11-08

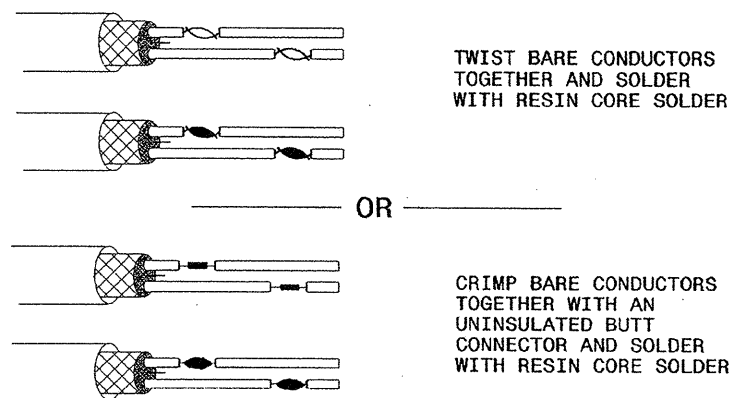
ENGLISH DETAIL DRAWING FOR  
**INDUCTIVE DETECTION LOOPS**  
SPlicing FOR LEAD-IN CABLE AND LOOP WIRE

SHEET 3 OF 3  
**1725D01**

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

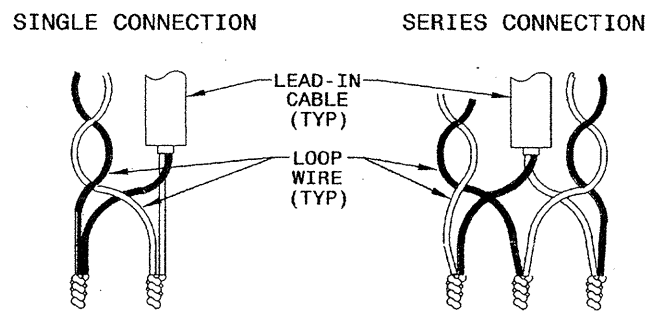


**STEP 2. CONNECT AND SOLDER**

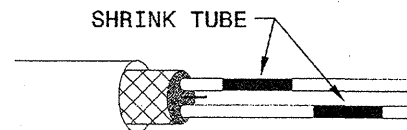


BOND SHIELD DRAIN WIRE AT SPLICE SECTIONS (DO NOT GROUND)

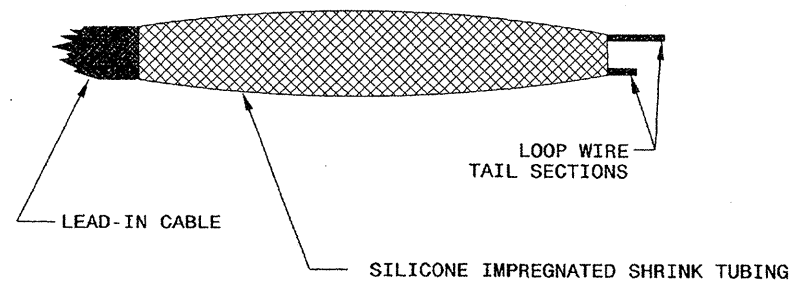
**LOOP WIRE AND LEAD-IN CABLE CONNECTION DETAILS**



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



**STEP 4. ENVIRONMENTALLY PROTECT SPLICE**



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ENGLISH DETAIL DRAWING FOR  
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SPlicing FOR LEAD-IN CABLE AND LOOP WIRE

SHEET 3 OF 3  
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