001	STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS  ———————————	PTATE STATE PROJECT REPERENCE NA. SHRET TOTAL MASETS N.C. R—5001 1 6  STATE PROJ.NO. P.A. PROJ.NO. SECCRIPTION
R-5001	NORTHAMPTON COUNTY	
¿CT:	LOCATION: US 158 – FROM HALIFAX COUNTY LINE (NEAR WELDON, NC)  TO BEGIN DIVIDED HIGHWAY (NEAR MURFREESBORO, NC)	
PROJECT:	TYPE OF WORK: MILLING, CURB & GUTTER, RESURFACING, STEEL BEAM GUARDRAIL AND LONG LIFE PAVEMENT MARKINGS	
	MAP 1 MAP 3 MAP 5	MAP 7
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	1306 1301 1308 1301 1308 1301 1308 1301 1308 1301 1308 1300 1300	Pa-villeton 1363
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41157	10 1555 10 1555 10 1555 1555 1555 1555	1541 1547 1548 1549 1540 1541 2 1541
IT:	MAP 2 MAP 4 MAP 6	1558
EMEN	PROJECT LENGTH  Prepared in the Office of:	DIVISION OF HIGHWAYS
EL	LENGTH ROADWAY STATE PROJECT = 28.18 MILES  DIVISION OF HIGHWAYS  113 Airport Dr., Edenton NC 27932  2006 STANDARD SPECIFICATIONS  W.B. HOBBS, P.E.	DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA
WBS	TOTAL LENGTH STATE PROJECT = 28.18 MILES  LETTING DATE:  W.B. HOBBS, P.E.  DIVISION PROJECT MANAGER  C. E. SLACHTA  DIVISION PROPOSALS ENGINEER	TRANSPORT OF TRANS

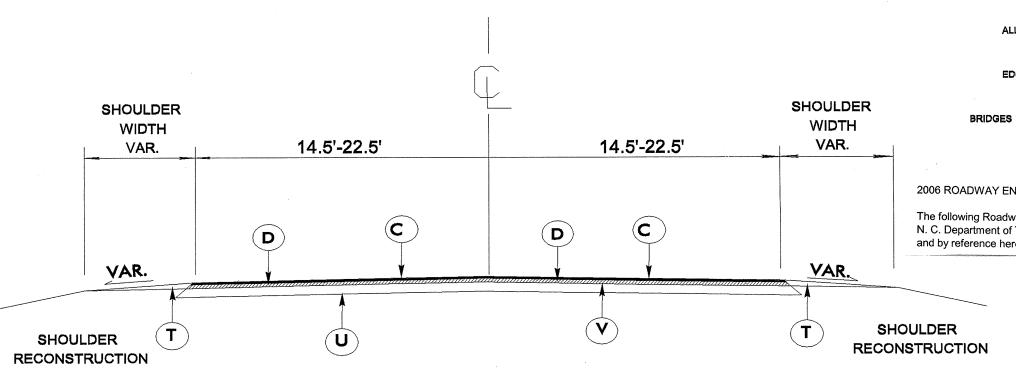
ASPHALT PLANT MIX FOR PAVEMENT REPAIR WILL BE REQUIRED AS DIRECTED BY THE ENGINEER

THE FOLLOWING PAVEMENT DESIGN SHALL BE USED FOR ASPHALT PLANT MIX FOR PAVEMENT REPAIR:

5 1/2" ACBC, TYPE B25.0C 1 1/2" ACSC, TYPE \$9.5C

PRIOR TO PAVEMENT REPAIR, EXISTING PAVEMENT SHALL BE SAW CUT AND REMOVED

REPAIRED AREAS WILL RECEIVE AN ADDITIONAL 1 1/2" OF \$9.5C WHEN FINAL LAYER OF SURFACE IS APPLIED



## TYPICAL SECTION #1

USE WITH US 158 MAPS 1, 3 AND 5-7

SHOULDER RECONSTRUCTION TO BE PERFORMED AS DIRECTED BY THE ENGINEER

PROJECT REFERENCE NO.	SHEET NO.
R-5001	2 OF 6

<b>(C)</b>	PROP. APPROX. 1.5" ACSC TYPE \$9.5C AT AN AVERAGE RATE OF 168.0 LBS. PER \$Q. YD.
	PROP. APPROX. 2.5" ACIC 119.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
	EXISTING PAVEMENT
<b>(&gt;</b> )	MILLING ASPHALT PAVEMENT: 1.5" DEPTH
$(\mathbf{F})$	EARTH MATERIAL

#### NOTES:

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

BRIDGES TO BE SURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY ENGINEER

PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE

#### 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:

TD.NO. TI

DIVISION 6 - ASPHALT BASES AND PAVEMENTS 654.01 Pavement Repairs

## **DIVISION 8 - INCIDENTALS**

846.01 Concrete Curb, Gutter and Curb & Gutter

848.05 Wheelchair Ramp - Curb Cut

848.06 Wheelchair Ramp - Retrofitting of Existing Curb

862.01 Guardrail Placement

862.02 Guardrail Installation

ASPHALT PLANT MIX FOR PAVEMENT REPAIR WILL BE REQUIRED AS DIRECTED BY THE ENGINEER

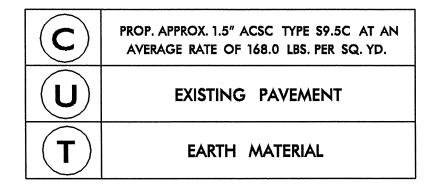
THE FOLLOWING PAVEMENT DESIGN SHALL BE USED FOR ASPHALT PLANT MIX FOR PAVEMENT REPAIR:

5 1/2" ACBC, TYPE B25.0C 1 1/2" ACSC, TYPE S9.5C

PRIOR TO PAVEMENT REPAIR, EXISTING PAVEMENT SHALL BE SAW CUT AND REMOVED

REPAIRED AREAS WILL RECEIVE AN ADDITIONAL 1 1/2" OF S9.5C WHEN FINAL LAYER OF SURFACE IS APPLIED

PROJECT REFERENCE NO.	SHEET NO.
R-5001	3 OF 6



#### NOTE

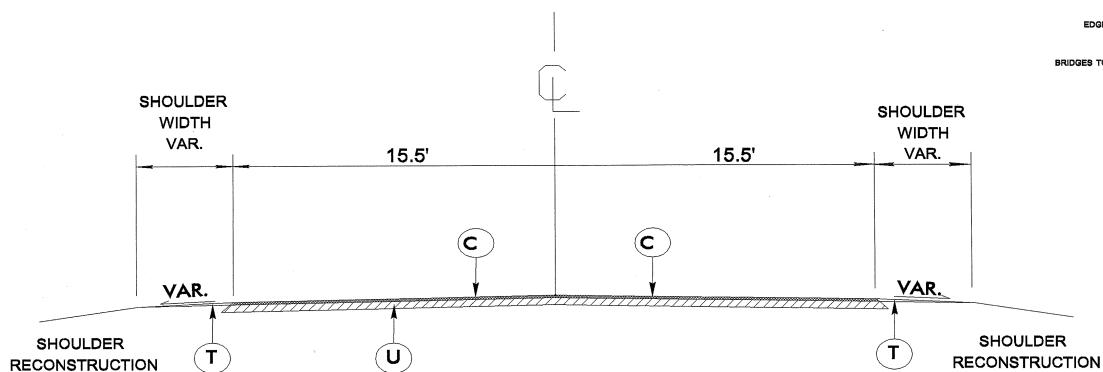
ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER

EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE

BRIDGES TO BE SURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY ENGINEER

PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE

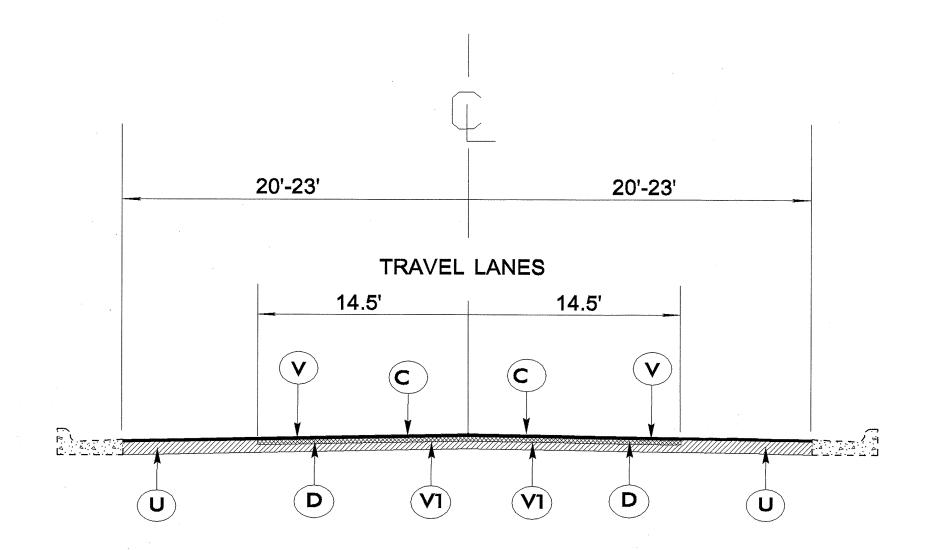
SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS



# TYPICAL SECTION #2

USE WITH US 158 MAP 2

SHOULDER RECONSTRUCTION TO BE PERFORMED AS DIRECTED BY THE ENGINEER



# TYPICAL SECTION #3

USE WITH US 158 MAP 4

PROJECT REFERENCE NO.	SHEET NO.
R-5001	4 OF 6

(C)	PROP. APPROX. 1.5" ACSC TYPE S9.5C AT AN AVERAGE RATE OF 168 LBS PER SQ. YD.
<b>D</b>	PROP. APPROX. 2.5" ACIC TYPE 119.0C AT AN AVERAGE RATE OF 285 LBS PER SQ. YD. PAVE IN TRAVEL LANES ONLY
U	EXISTING PAVEMENT
V	MILLING ASPHALT PAVEMENT: 1.5" DEPTH
	MILLING ASPHALT PAVEMENT 2.5" DEPTH MILL TRAVEL LANES ONLY

### CONSTRUCTION SEQUENCE:

- 1. MILL APPROXIMATELY 1.5" OVER ENTIRE SURFACE CURB TO CURB.
- 2. MILL TRAVEL LANES (APPROX. 29' WIDE) DOWN AN ADDITIONAL 2.5".
- 3. PLACE APPROX. 2.5" OF I19.0C IN TRAVEL LANES TO REFILL TRENCH.
- 4. INSTALL INDUCTIVE LOOPS AT INTERSECTION OF US 158 & NC 305.
- 5. OVERLAY THE ENTIRE ROADWAY WITH APPROX. 1.5" OF \$9.5C.
- 6. APPLY THERMOPLASTIC PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS.

#### NOTES

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

PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE

ALL ASPHALT TO BE REMOVED FROM EXISTING CURB AND GUTTER

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.

TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.

FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.

W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.

G = GATING IMPACT ATTENUATOR TYPE 350

NG = NON-GATING IMPACT ATTENUATOR TYPE 350

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
R-5001	5 OF 6

## CHADDDAH CHMMADV

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PROJECT NO.	SHEET NO.	TOTAL NO.
R-5001	6	6

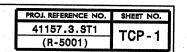
## SUMMARY OF QUANTITIES

									0000100000-N	1220000000-E	1245000000-E	1297000000-E	1297000000-E	1308000000-E	1503000000-E	1523000000-E	1560000000-E	1565000000-E	1693000000-E	2549000000-E	2600000000-N	2605000000-N
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	ТҮР	FINAL SURFACE TESTING REQUIRED	LENGTH	WIDTH	MOBILIZATION	INCIDENTAL STONE BASE	SHOULDER RECON- STRUCTION	MILLING ASPHALT PAVEMENT, 1.5" DEPTH	MILLING ASPHALT PAVEMENT, 2.5" DEPTH	MILLING ASPHALT PAVEMENT, 2" TO 4" DEPTH	ASPHALT CONC. INTERMEDIATE COURSE, TYPE 119.0C	ASPHALT CONC. SURFACE COURSE, TYPE S9.5C	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22	ASPHALT PLANT MIX, PAVEMENT REPAIR	2'-6" CONC. CURB & GUTTER	RETROFIT EXISTING WHEELCHAIR RAMPS	CONC. WHEELCHAIR RAMPS
NO		NO			NO		MI	FT	LS	TONS	SMI	SY	SY	SY	TONS	TONS	TONS	TONS	TONS	LF	EA	EA
R-5001	Northampton	11	US 158	FROM ROANOKE RIVER TO HILLTOP DRIVE	1	Yes	1.20	32	1	100	2.4	23,500		800	3,582	2,090	168	125	150			
R-5001	Northampton	2	US 158	HILLTOP DRIVE TO US 301	2	No	0.58	31	1	50	1.16					1,050		63				
. R-5001	Northampton	3	US 158	FROM US 301 TO WCL JACKSON	1	Yes	9.52	29	1	250	19.04	171,000		800	25,789	15,100	1,212	906	1,350			
R-5001	Northampton	4	US 158		3	No	1.00	41	1		AN-ARCH CO. C.	26,500	17,013		2,686	2,400	126	144		450	11	18
R-5001	Northampton	5	US 158	FROM ECL JACKSON TO SR SR 1344	11	Yes	7.16	29	1	500	14.32	131,400			19,396	11,600	912	696	1,000			
R-5001	Northampton	6	US 158		1	Yes	4.59	29	1	200	9.18	83,000	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		12,434	7,400	584	444	800			
R-5001	Northampton	7	US 158	FROM ECL CONWAY TO BEGIN DIVIDED HIGHWAY	11	Yes	4.14 <b>28.19</b>	29		250	8.28	76,000			11,215	6,800	527	408	700			
TOTAL FOR PROJ NO. R-5001									1 1	1,350	54.38	511,400	17,013	1,600	75,102	46,440	3,529	2,786	4,000	450	1	18

								2655000000-E	2815000000-N	2830000000-N	2845000000-N	3030000000-E	3270000000-N	3345000000-E	3360000000-E	4589000000-N	6084000000-E	7444000000-E	7456000000-E
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LENGTH	WIDTH	5" MONOLITHIC CONCRETE ISLAND (KEYED-IN)	ADJUST- MENTS OF DROP INLET	ADJUST- MENTS OF MANHOLES	ADJUSTMENT OF METER BOXES OR VALVE BOXES	STEEL BEAM GUARDRAIL	GUARDRAIL ANCHOR UNITS, TYPE 350	REMOVE & RESET OF EXISTING GUARDRAIL	REMOVE EXISTING GUARDRAIL	TRAFFIC CONTROL	SEED & MULCHING	INDUCTIVE LOOP	LEAD-IN CABLE, 14-2
NO		NO			NO	MI	FT	SY	EA	EA	EA	LF	EA	LF	LF	LS	AC	LF	LF
R-5001	Northampton	1	US 158	FROM ROANOKE RIVER TO HILLTOP DRIVE	1	1.20	32	,		11			2	100	225	*	1.80		
R-5001	Northampton	2	US 158	HILLTOP DRIVE TO US 301	2	0.58	31									*	0.90		
R-5001	Northampton	3	US 158	FROM US 301 TO WCL JACKSON	1	9.52	29	250		3	3	100	8	425	650	*	13.90		
R-5001	Northampton	4	US 158	FROM WCL JACKSON TO END CURBING	3	1.00	41			20	22					*		300	100
R-5001	Northampton	5	US 158	FROM ECL JACKSON TO SR SR 1344	1	7.16	29		11				4	100	100	*	10.50		
R-5001	Northampton	6	US 158	SR 1344 TO WCL CONWAY	1	4.59	29				3	-				*	6.70		
R-5001	Northampton	7	US 158	FROM ECL CONWAY TO BEGIN DIVIDED HIGHWAY	1	4.14	29					300	4				6.10		
TOTA	AL FOR PROJ I	NO. R-5	001			28.19		250	] 1	24	28	400	18	625	975	<u> </u>	39.90	300	100

## THERMOPLASTIC AND PAINT QUANTITIES

								4685000000-E	468600	0000-E	4697000000-E	4710000000-E	710000000-E 4725000000-E			4835000000-E 490000000		0000-N
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LENGTH	WIDTH	4" X 90 M WHITE THERMO	4" X 120 M WHITE THERMO	4" X 120 M YELLOW THERMO	8" X 120 M YELLOW THERMO	24" X 120 M WHITE THERMO	THERMO LT ARROW 90 M	THERMO RT ARROW 90 M	4" YELLOW PAINT	24" WHITE PAINT	CRYSTAL & RED MARKERS	YELLOW & YELLOW MARKERS
NO		NO			NO	MI	FT	LF	LF	LF	LF	LF	EA	EA	LF	LF	EA	EA
R-5001	Northampton	1	US 158	FROM ROANOKE RIVER TO HILLTOP DRIVE	1	1.20	32	12,912	125	9,025	250		2		23,760		8	105
R-5001	Northampton	2	US 158	HILLTOP DRIVE TO US 301	2	0.58	31	6,241		3,828					3,828		-	40
R-5001	Northampton	3	US 158	FROM US 301 TO WCL JACKSON	1	9.52	29	102,435	1,000	65,012	500		4	6	22,000		50	680
R-5001	Northampton	4	US 158	FROM WCL JACKSON TO END CURBING	3	1.00	41			10,530		75			21,120	75		100
.R-5001	Northampton	5	US 158	FROM ECL JACKSON TO SR SR 1344	1	7.16	29	77,042	1,200	48,100	250		4	8	20,600		60	515
R-5001	Northampton	6	US 158	SR 1344 TO WCL CONWAY	1	4.59	29	49,388	500	33,924	500		6	1	94,540		10	390
R-5001	Northampton	7	US 158	FROM ECL CONWAY TO BEGIN DIVIDED HIGHWAY	1	4.14	29	44,546	600	27,825	300 1,800	75	46	4	82,450	75	35 <b>163</b>	300 <b>2,130</b>
ТОТА	AL FOR PROJ N	NO. R-5	001			28.19		292,564	292,564 3,425 198,244 201,669			75	16 3	19 5	268,298	75	2,293	



CAROLINA

NORTH

P

STATE

TRANSPORTATION

9F

DEPT.

**HIGHWAYS** 

PF

DIVISION

SIGNS

WARNING

ZONE

UNDIVIDED

TWO-WAY

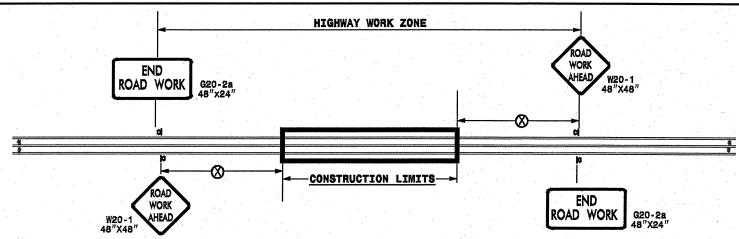
DRAWING

DETAIL

Z

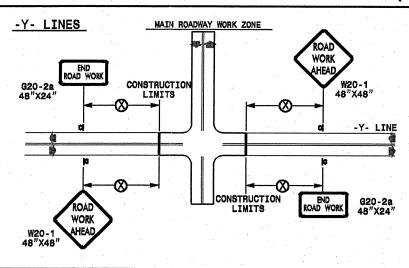
RALEIGH,





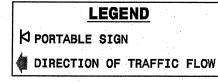
	RECOMMENDED MINIMUM SIGN SPACING
POSTED SPEED LIMIT (M.P.H.)	⊗
≤ 50	500'
≥ 55	1000'

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



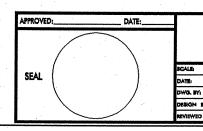
## GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCE 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.



FOR WORK

SHEET 1 OF 1

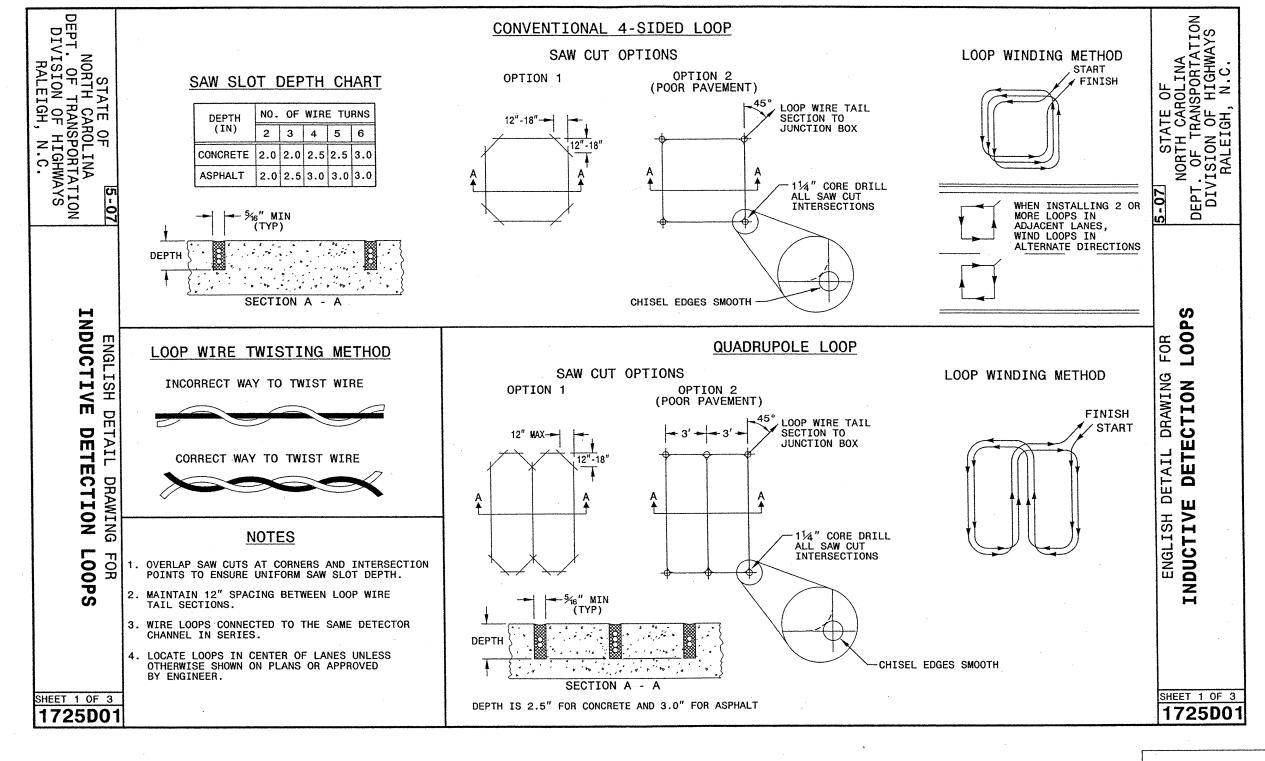


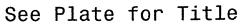
 CONTEON

DETAIL DRAWING TWO-WAY UNDIVIDED

ADVANCED WORK ZONE WARNING SIGNS				
NONE STEER TO		REVISIONS		
		7-98	10/01	
1		10-98	03/04	
BY:		01/01	11/04	
) BY:	CONTROL	CADD	<del></del>	

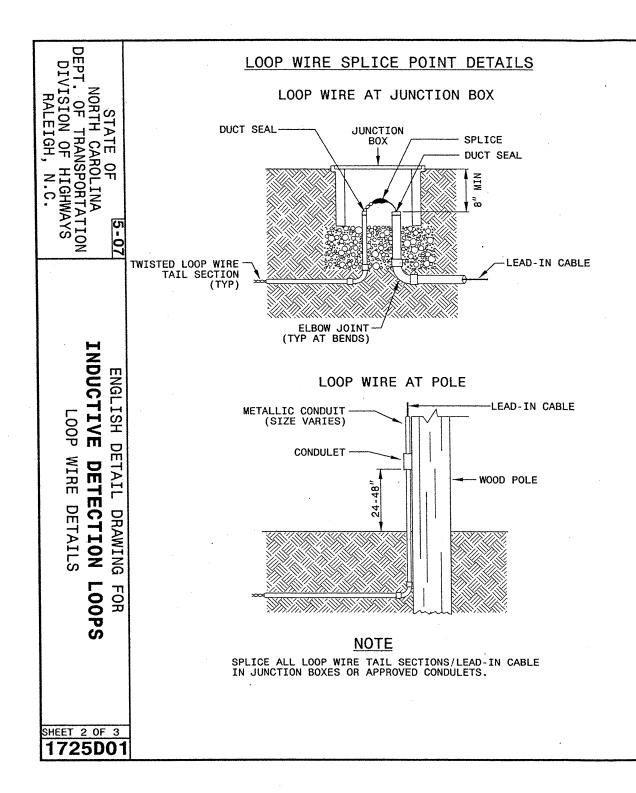
PROJECT REFERENCE NO. SHEET NO. R-5001 Sig.





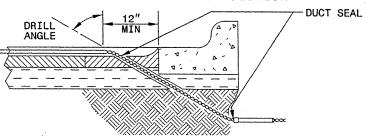


SEAL CAR

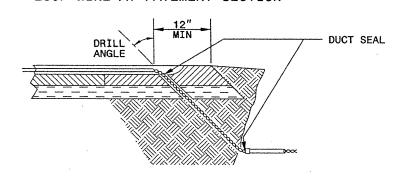


## LOOP WIRE PAVEMENT EDGE DETAILS

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.

5-07 STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

FOR LOOPS DETAIL DRAWING IDETECTION L ENGLISH DETAIL I INDUCTIVE DETE LOOP WIRE D

SHEET 2 OF 3 1725D01

## See Plate for Title



