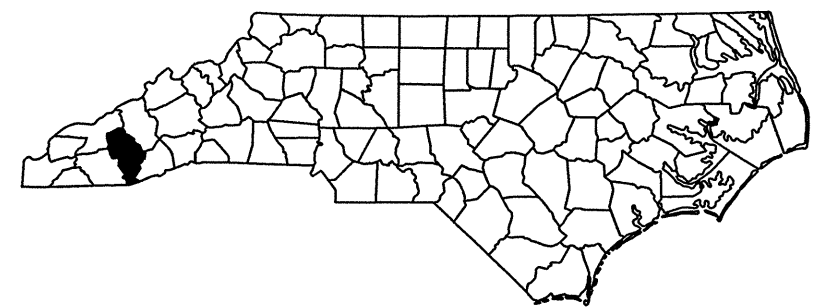
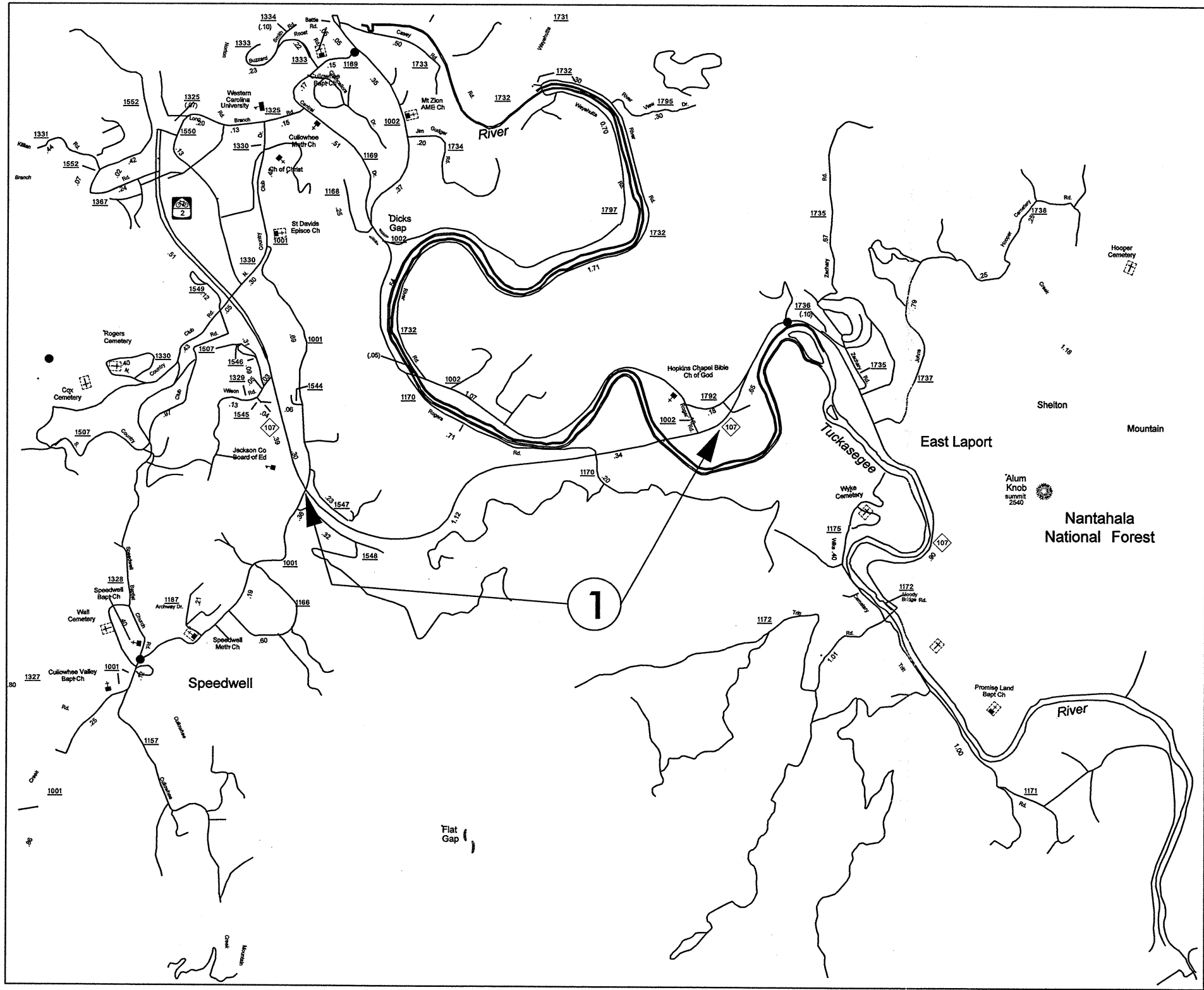


090197

2009 CONTRACT RESURFACING JACKSON COUNTY

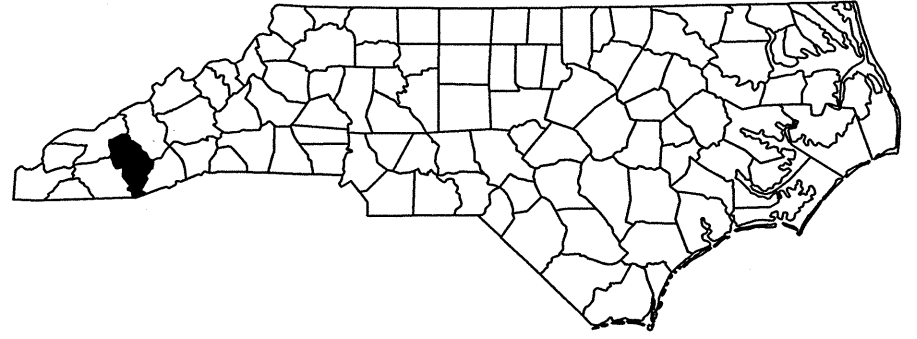
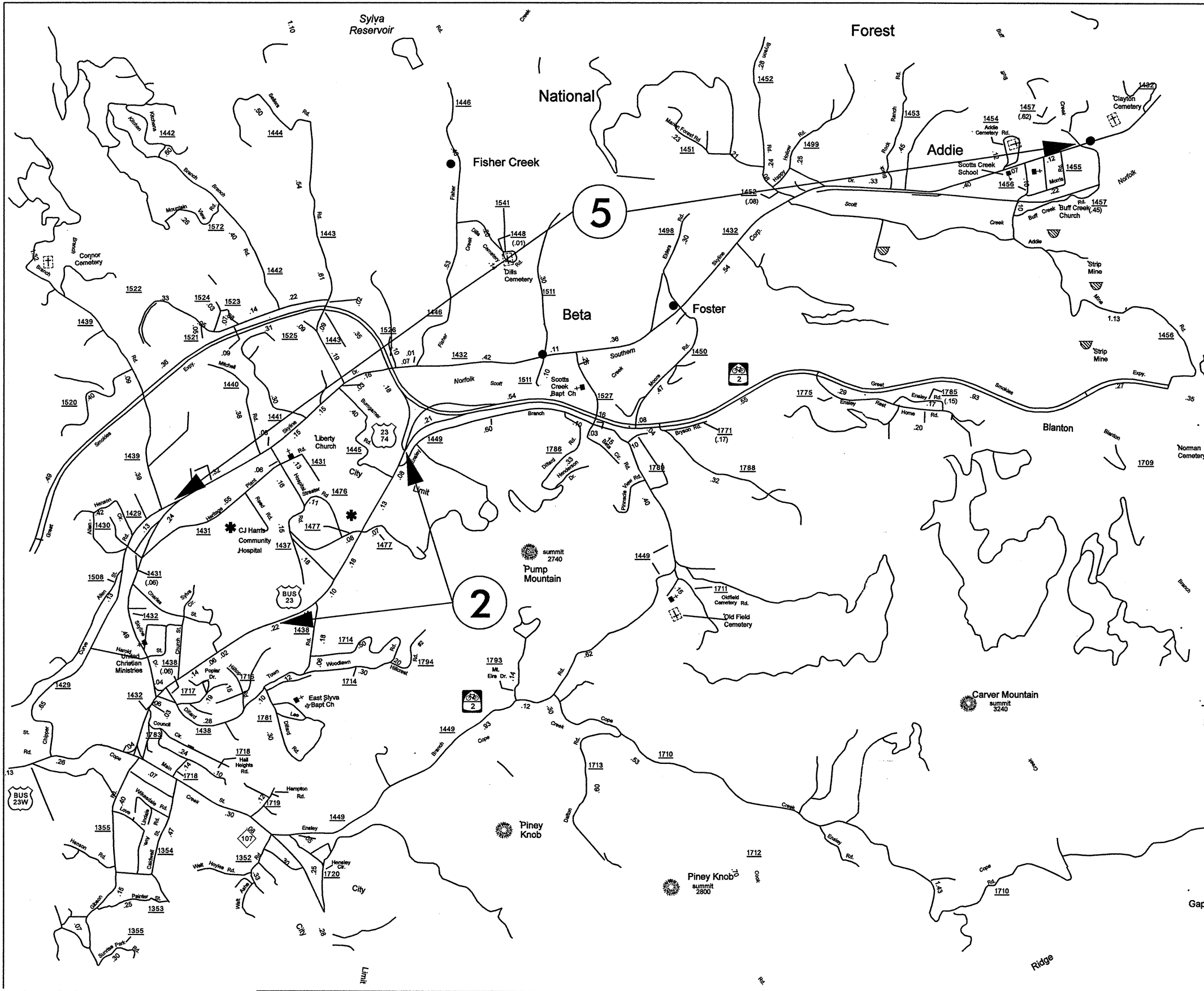
PROJECT REFERENCE NO.		SHEET NO.
14CR.10501.6		1
STATE PROJECT	F.A. PROJECT NO.	DESCRIPTION
14CR.10501.5		
14CR.20501.6		
14CR.10871.4		
14CR.20871.6		



*****SYSTEM*****
 *****DGN*****
 *****USERNAME*****

2009 CONTRACT RESURFACING JACKSON COUNTY

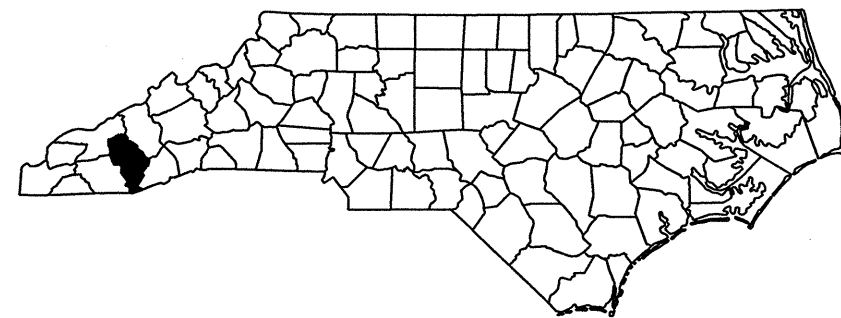
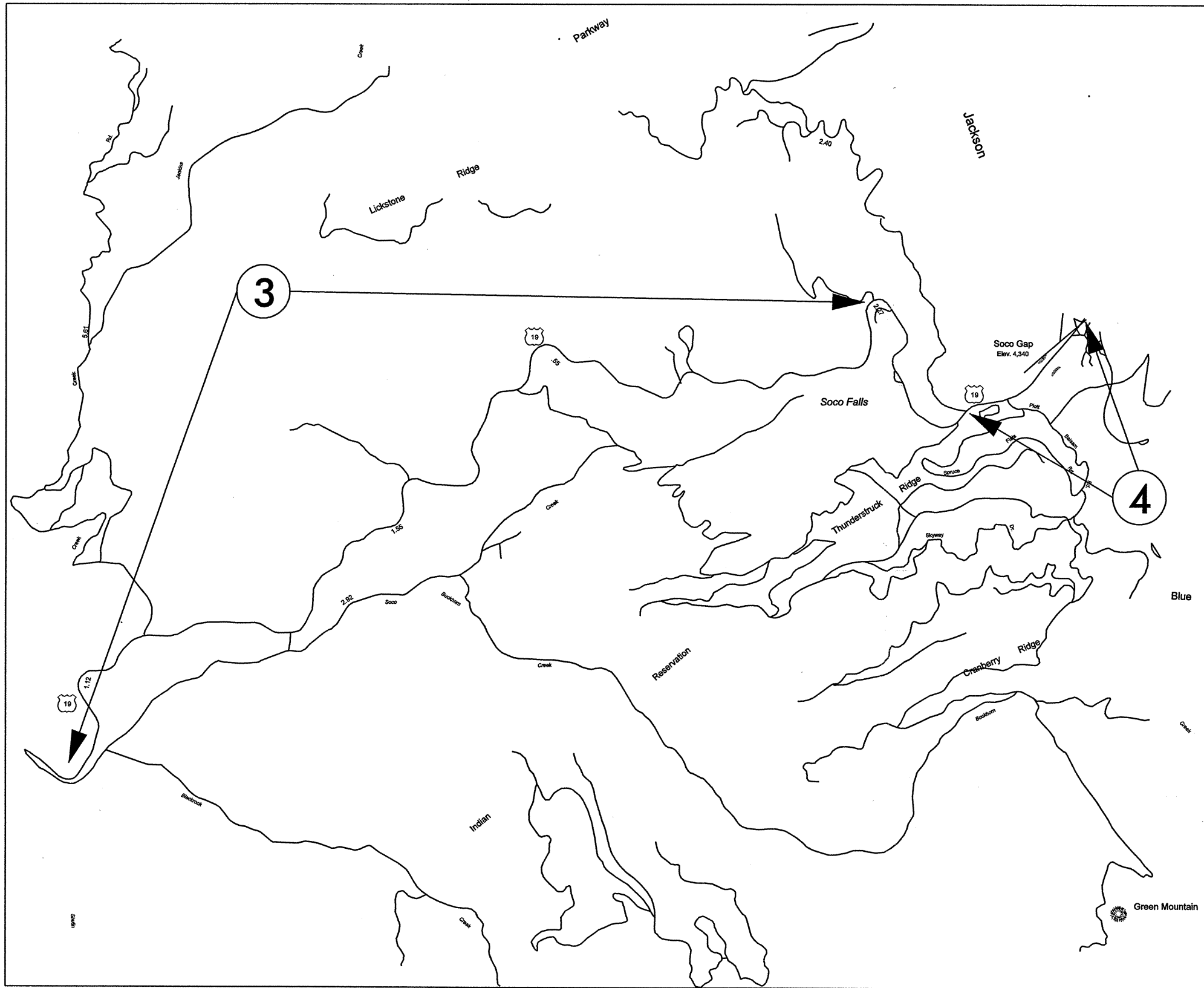
PROJECT REFERENCE NO.		SHEET NO.
14CR.10501.5		2
STATE PROJECT	F.A. PROJECT NO.	DESCRIPTION
14CR.10501.5		
14CR.20501.6		
14CR.10871.4		
14.CR.20871.6		



050197

2009 CONTRACT RESURFACING JACKSON COUNTY

PROJECT REFERENCE NO.		SHEET NO.
14CR.10501.5		3
STATE PROJECT	F.A. PROJECT NO.	DESCRIPTION
14CR.10501.5		
14CR.20501.6		
14CR.10871.4		
14.CR.20871.6		

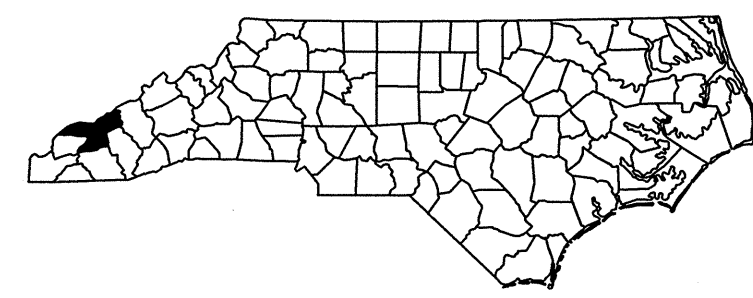
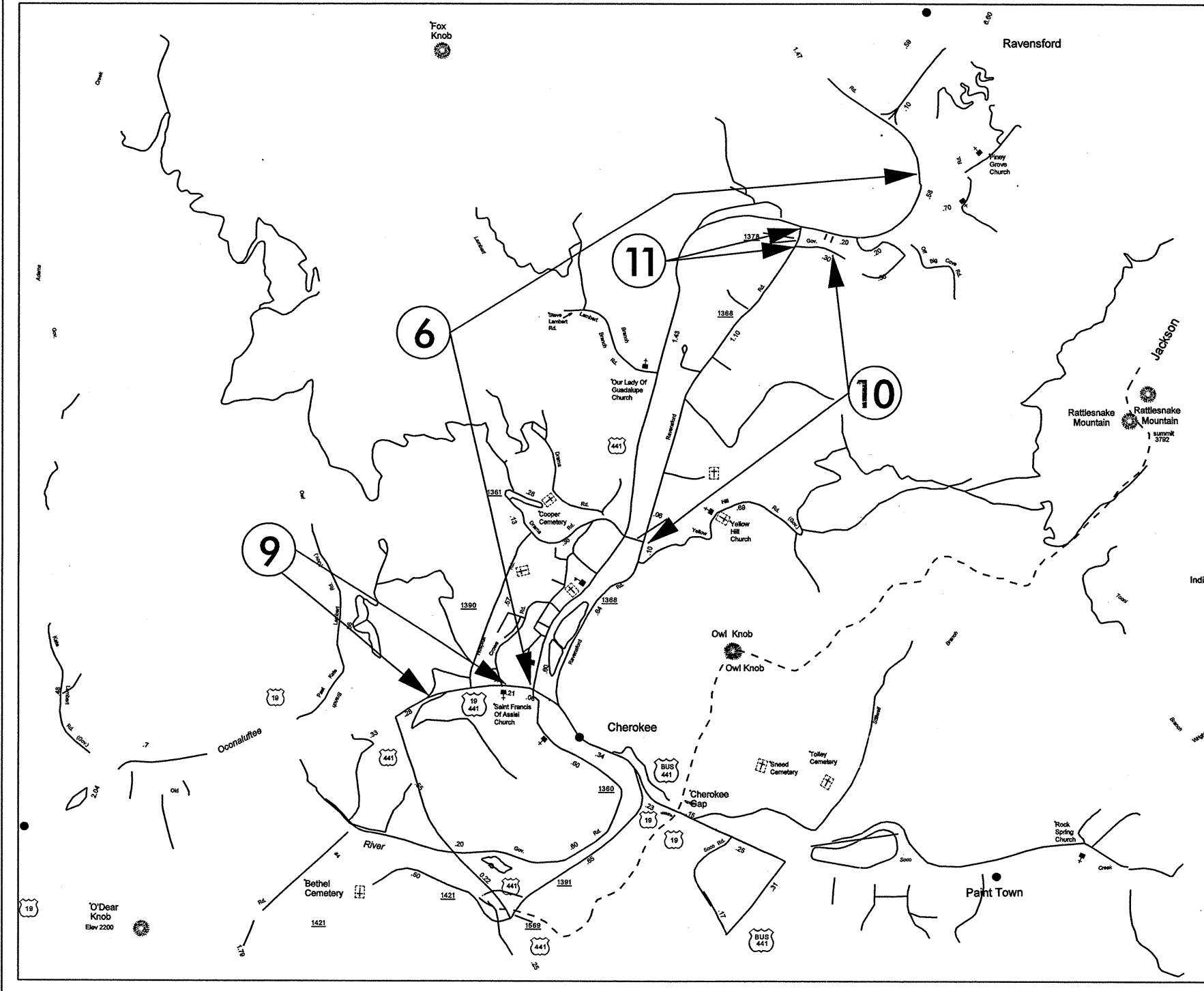


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 *****DGN*****
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050197

2009 CONTRACT RESURFACING SWAIN COUNTY

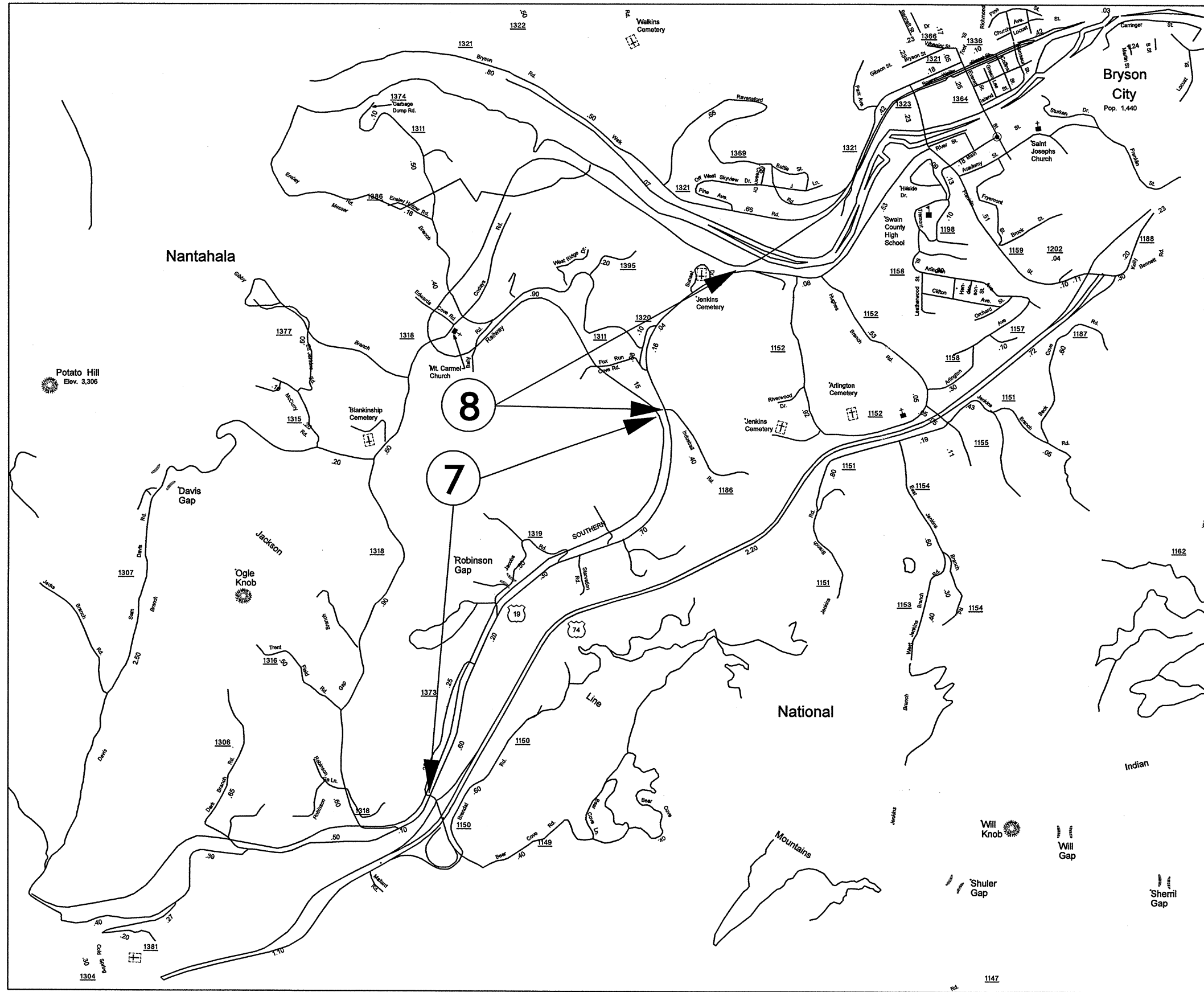
PROJECT REFERENCE NO.		SHEET NO.
14CR.10501.5		4
STATE PROJECT	F.A. PROJECT NO.	DESCRIPTION
14CR.10501.5		
14CR.20501.6		
14CR.10871.4		
14.CR.20871.6		



*****SYTIME*****
 *****DGN*****
 *****USERNAME*****

2009 CONTRACT RESURFACING SWAIN COUNTY

PROJECT REFERENCE NO.		SHEET NO.
14CR.10501.5		5
STATE PROJECT	F.A. PROJECT NO.	DESCRIPTION
14CR.20501.6		
14CR.10871.4		
14CR.20871.6		



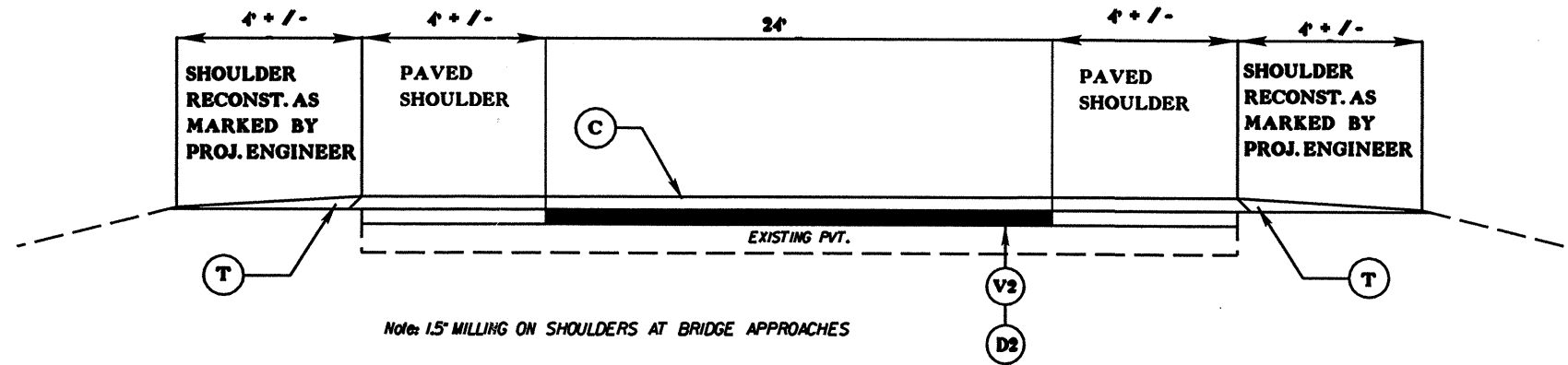
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SURFACING SCHEDULE

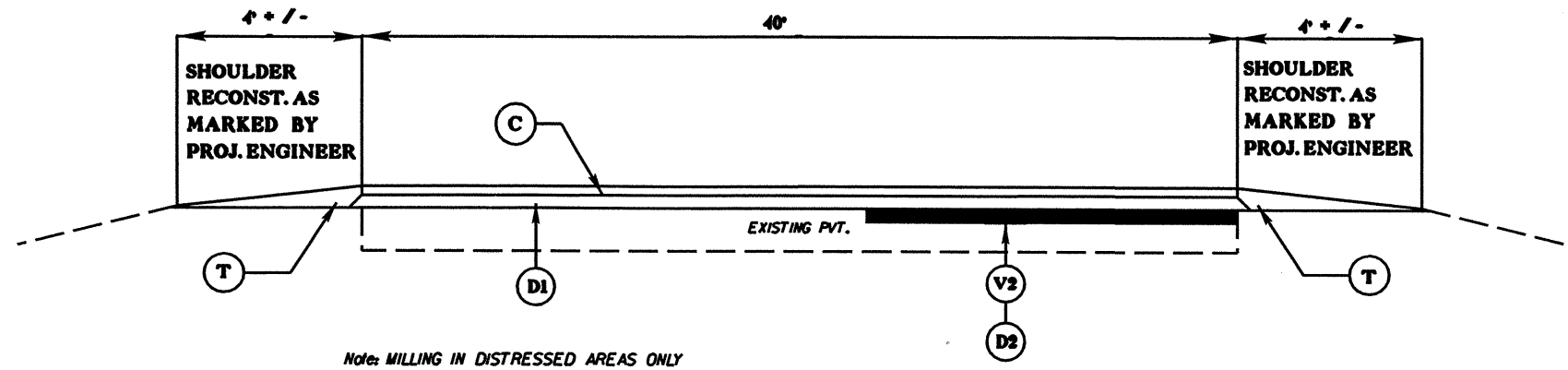
ITEM NO	DESCRIPTION
C	ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. (1 1/2")
D1	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD. (2 1/2")
D2	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD. (3")
V1	MILLING ASPHALT PAVEMENT 1 1/2" IN DEPTH AS DIRECTED BY THE PROJ. ENGINEER.
V2	MILLING ASPHALT PAVEMENT 3" IN DEPTH AS DIRECTED BY THE PROJECT ENGINEER.
V3	MILLING ASPHALT PAVEMENT 4" IN DEPTH AS DIRECTED BY THE PROJECT ENGINEER.
T	SHOULDER RECONSTRUCTION WITH ABCM - SEE SPECIAL PROVISIONS

PROJECT REFERENCE NO.		SHEET NO.
14CR.10501.5		6
STATE PROJECT	F.A. PROJECT NO.	DESCRIPTION
14CR.10501.5		
14CR.20501.6		
14CR.10871.4		
14CR.20871.6		

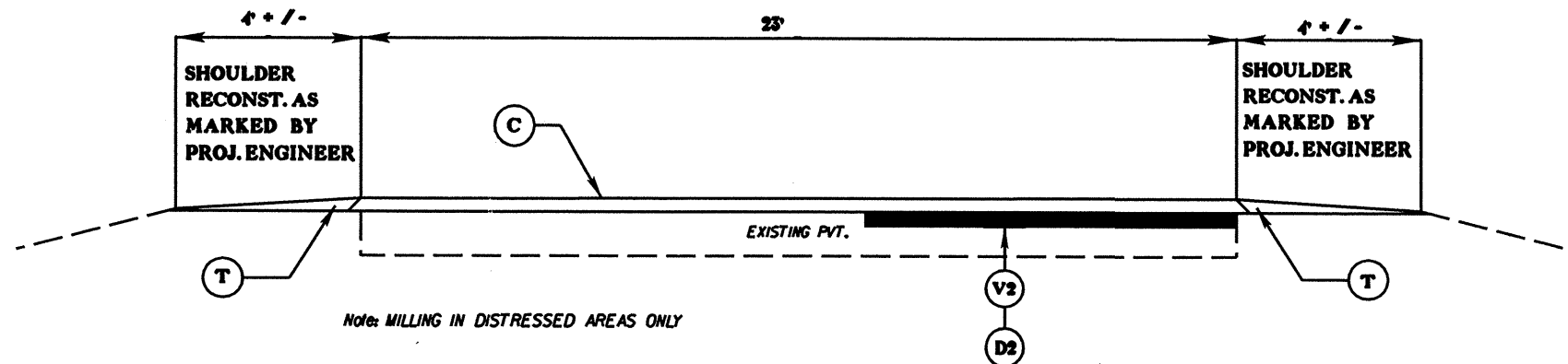
TYPICAL 1



TYPICAL 2



TYPICAL 3



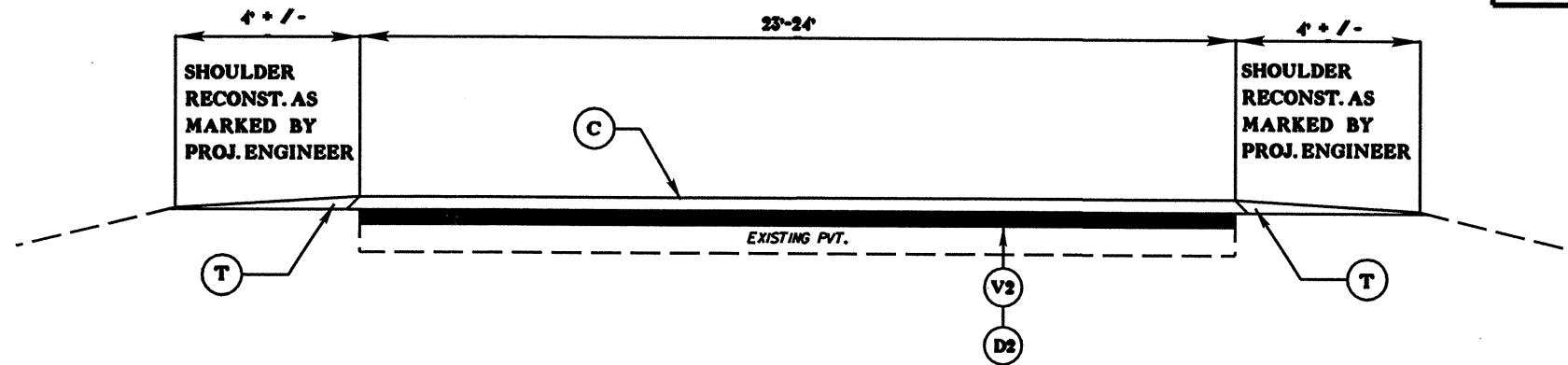
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SURFACING SCHEDULE

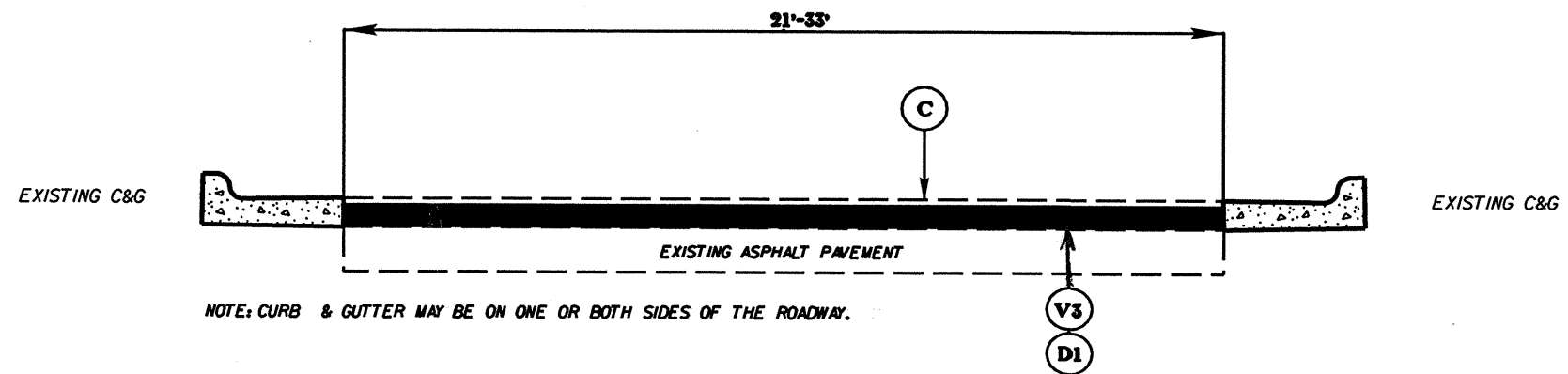
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D1	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.(2 1/2")
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V1	MILLING ASPHALT PAVEMENT 1 1/2" IN DEPTH AS DIRECTED BY THE PROJ. ENGINEER.
V2	MILLING ASPHALT PAVEMENT 3" IN DEPTH AS DIRECTED BY THE PROJECT ENGINEER.
V3	MILLING ASPHALT PAVEMENT 4" IN DEPTH AS DIRECTED BY THE PROJECT ENGINEER.
T	SHOULDER RECONSTRUCTION WITH ABCM - SEE SPECIAL PROVISIONS

PROJECT REFERENCE NO.		SHEET NO.
14CR.10501.5		7
STATE PROJECT	F.A. PROJECT NO.	DESCRIPTION
14CR.10501.5		
14CR.20501.6		
14CR.10871.4		
14CR.20871.6		

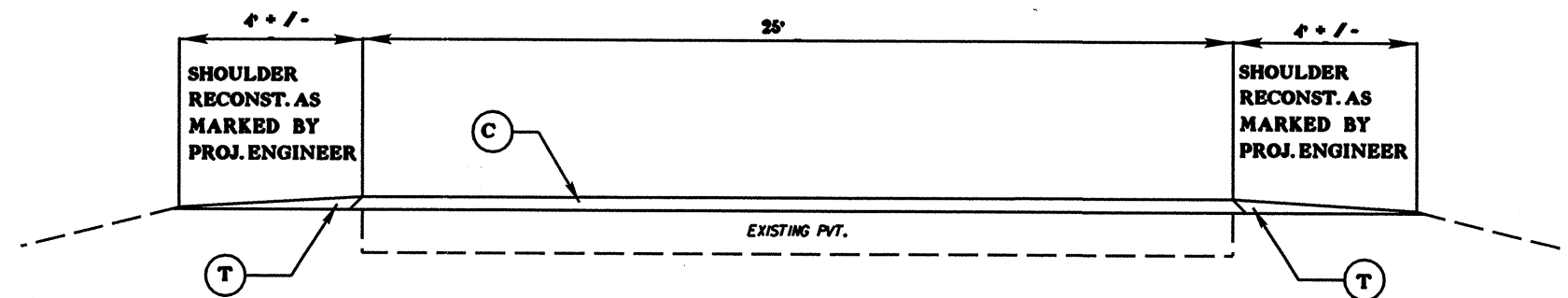
TYPICAL 4



TYPICAL 5



TYPICAL 6



\$\$\$\$\$SYTIME\$\$\$\$\$
 \$\$\$\$\$\$SDGN\$\$\$\$\$
 \$\$\$\$\$\$USERNAME\$\$\$\$\$

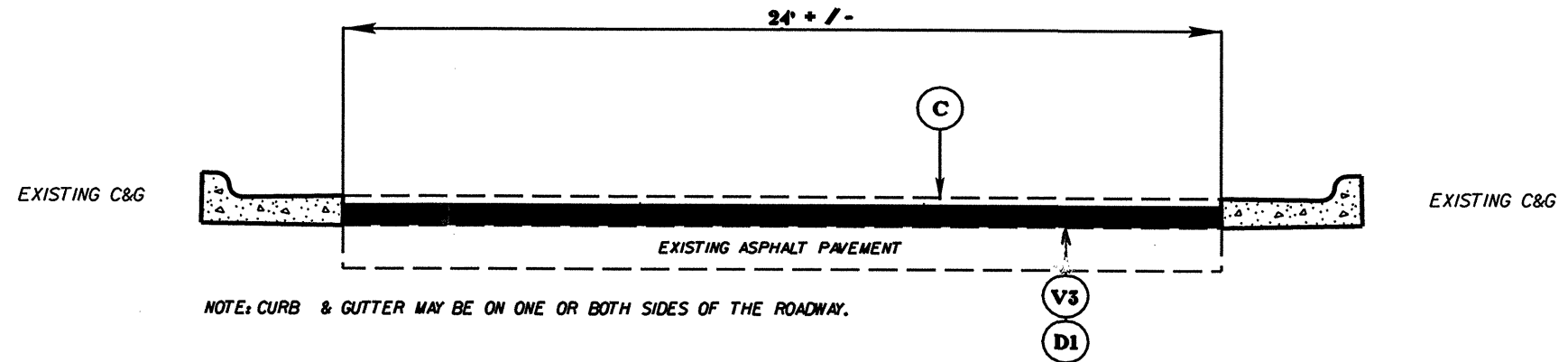
050197

SURFACING SCHEDULE

ITEM NO	DESCRIPTION
C	ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. (1 1/2")
D1	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.(2 1/2")
D2	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.(3")
V1	MILLING ASPHALT PAVEMENT 1 1/2" IN DEPTH AS DIRECTED BY THE PROJ. ENGINEER.
V2	MILLING ASPHALT PAVEMENT 3" IN DEPTH AS DIRECTED BY THE PROJECT ENGINEER.
V3	MILLING ASPHALT PAVEMENT 4" IN DEPTH AS DIRECTED BY THE PROJECT ENGINEER.
T	SHOULDER RECONSTRUCTION WITH ABCM - SEE SPECIAL PROVISIONS

PROJECT REFERENCE NO.	SHEET NO.	
14CR.10501.5	8	
STATE PROJECT	F.A. PROJECT NO.	DESCRIPTION
14CR.10501.5		
14CR.20501.6		
14CR.10871.4		
14CR.20871.6		

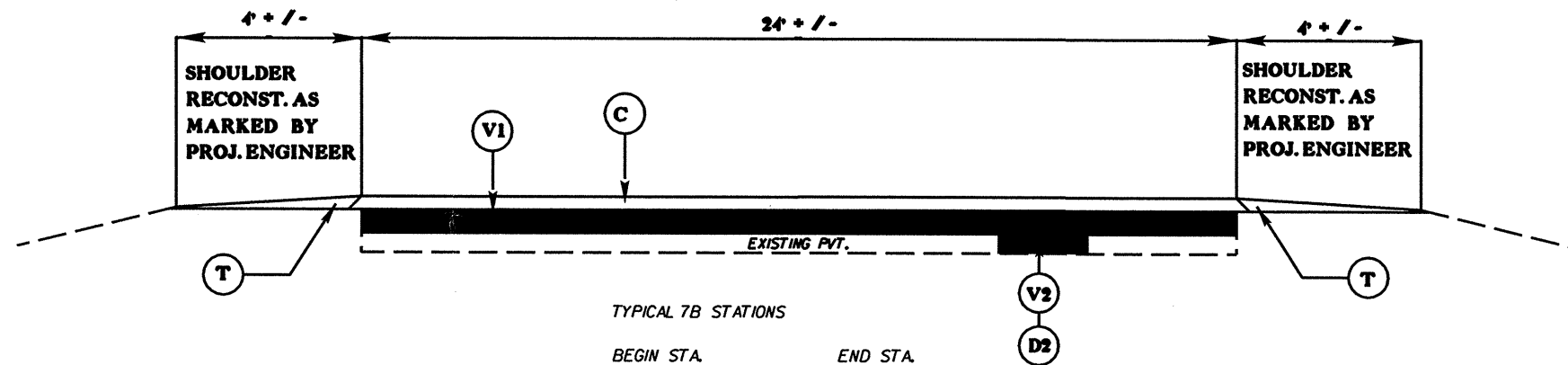
TYPICAL 7A



TYPICAL 7A STATIONS

BEGIN STA.	END STA.
0+00	36+20
43+50	47+45
59+50	71+37
79+00	81+10
97+15	105+50

TYPICAL 7B



TYPICAL 7B STATIONS

BEGIN STA.	END STA.
36+20	43+50
47+45	59+50
71+37	79+00
81+80	97+15
105+50	126+19

NOTE: V2 MILLING IN DISTRESSED AREAS ONLY.

*****SYTIME*****
 *****DGN*****
 *****USERNAME*****

PROJECT NO.	SHEET NO.	TOTAL NO.
14CR.10501.5, 14CR.20501.6	9	
14CR.10871.4, 14CR.20871.6		

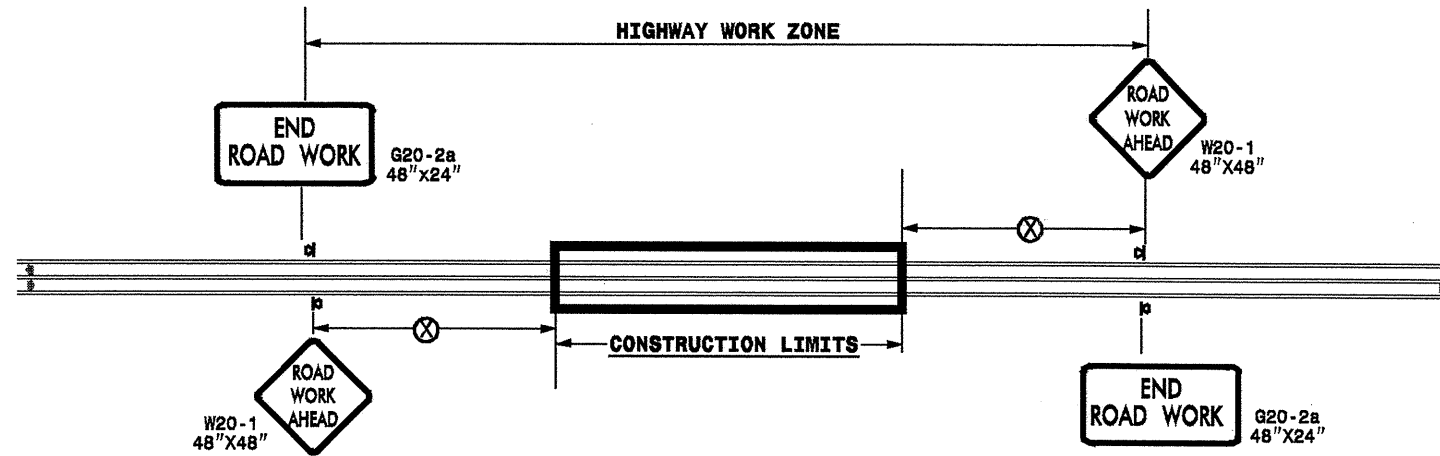
SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LENGTH MI	WIDTH FT	SHOULDER RECONSTRUCTION SMI	1 1/2" MILLING SY	3" MILLING SY	4" MILLING SY	INTERMEDIATE COURSE, 119.0B TONS	SURFACE COURSE, S9.5B TONS	PG 64-22 PLANT MIX TONS	DRAINAGE STRUCTURE REPAIR LF	REMOVE & REPLACE 2'-6" CURB & GUTTER LF	WHEELCHAIR RAMPS WITH TRUNCATED DOMES EA	RETROFIT EXISTING WHEELCHAIR RAMPS EA	REMOVE & REPLACE 6" CONCRETE DRIVEWAYS SY	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA	INDUCTIVE LOOP SAWCUT LF	LEAD-IN CABLE, 14-2 LF	
14CR.10501.5	Jackson	1	NC107	FROM SR1001 TO PVMT CHNG 0.33 MILES EAST OF SR1002	1	1.83	34	3.65	375	25,766		4,626	3,220	411										
		2	US23 BUS	FROM 0.38 MILE WEST OF SR1438 TO PVMT CHNG 0.08 MILE NORTH OF SR1449	2	0.92	40	1.84		704		3,389	1,922	275										
		3	US19	FROM JOSHA TOINEETA ROAD TO PVMT CHNG 0.12 MILE NORTHEAST OF ROUGH BRANCH	4	5.74	23	11.48		77,452		13,906	6,831	1,063										
		4	US19	FROM HYATT CREEK ROAD TO HAYWOOD COUNTY	4	0.52	23	1.04		7,016		1,260	619	96										
TOTAL FOR PROJ NO. 14CR.10501.4						9.01		18.01	375	110,938		23,181	12,592	1,845										
14CR.20501.6	Jackson	5	SR1432	FROM SR1429 TO SR1457	3	3.4	21	6.80		14,000		2,514	3,695	340										
TOTAL FOR PROJ NO. 14CR.20501.6						3.4		6.80		14,000		2,514	3,695	340										
14CR.10871.4	Swain	6	US441	FROM US19 TO GSMNP LINE	7A & 7B	2.39	24	0.90	16,805	1,467	19,072	3,688	2,968	351								8	1,194	80
		7	US19	FROM SR1309 TO SR1186	4	1.64	24	3.28		23,091		4,146	2,037	317										
		8	US19	FROM SR1186 TO TEPAL TERRACE ROAD	6	0.72	25	1.44					940	56										
		9	US19	FROM US441 TO PVMT CHNG 0.25 MILE WEST	5	0.25	33				4,840	703	415	58										
TOTAL FOR PROJ NO. 14CR.10871.4						5.00		5.62	16,805	24,558	23,912	8,537	6,360	782								8	1,194	80
14CR.20871.6	Swain	10	SR1368	FROM PVMT CHNG 678 FT EAST OF SR1378 TO SR1361	5	1.28	21				15,770	2,360	1,391	194	3	100	2	6	160	4	1	52	20	
		11	SR1378	FROM SR1368 TO US441	5	0.063	24				887	126	78	11										
TOTAL FOR PROJ NO. 14CR.20871.6						1.343					16,657	2,486	1,469	205	3	100	2	6	160	4	1	52	20	
GRAND TOTAL						18.753		30.43	17,180	149,496	40,569	36,718	24,116	3,172	3	100	2	6	160	12	1	1,246	100	

PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4810000000-E		4820000000-E		4825000000-E	4830000000-E	4835000000-E	4840000000-N		4845000000-N									
					4" WHITE PAINT LF	4" YELLOW PAINT LF	8" YELLOW PAINT LF	8" WHITE PAINT LF	12" WHITE PAINT LF	16" WHITE PAINT LF	24" WHITE PAINT LF	PAINT MSG SCHOOL EA	PAINT MSG RXR EA	PAINT LT ARROW EA	PAINT RT ARROW EA	PAINT STR ARROW EA	PAINT STR & LT ARROW EA	PAINT STR & RT ARROW EA					
14CR.10501.5	Jackson	1	NC107	FROM SR1001 TO PVMT CHNG 0.33 MILES EAST OF SR1002	59,373	46,875	1,020				456	6		8	10								
		2	US23 BUS	FROM 0.38 MILE WEST OF SR1438 TO PVMT CHNG 0.08 MILE NORTH OF SR1449	11,400	31,122	1,536	600			606			28	2								
		3	US19	FROM JOSHA TOINEETA ROAD TO PVMT CHNG 0.12 MILE NORTHEAST OF ROUGH BRANCH	182,344	181,944					18							3					
		4	US19	FROM HYATT CREEK ROAD TO HAYWOOD COUNTY	16,473	16,473																	
TOTAL FOR PROJ NO. 14CR.10501.4					269,590	276,414	2,556	600			1,080	6		36	12			3					
					546,004		3,156					6					51						
14CR.20501.6	Jackson	5	SR1432	FROM SR1429 TO SR1457	71,808	83,846																	
TOTAL FOR PROJ NO. 14CR.20501.6					71,808	83,846																	
					155,654																		
14CR.10871.4	Swain	6	US441	FROM US19 TO GSMNP LINE	50,926	76,438	270		1,548		642	12		22	2		6	2					10
		7	US19	FROM SR1309 TO SR1186	51,955	51,955				50	25				2								
		8	US19	FROM SR1186 TO TEPAL TERRACE ROAD	15,206	15,206																	
		9	US19	FROM US441 TO PVMT CHNG 0.25 MILE WEST	5,168	7,956																1	
TOTAL FOR PROJ NO. 14CR.10871.4					123,255	151,555	270		1,548	50	667	12	2	23	2		6	3				1	10
					274,810		270					14				44							
14CR.20871.6	Swain	10	SR1368	FROM PVMT CHNG 678 FT EAST OF SR1378 TO SR1361	24,248	52,752					856	12											
		11	SR1378	FROM SR1368 TO US441	1,996	1,996					822												
TOTAL FOR PROJ NO. 14CR.20871.6					26,244	54,748					1,678	12											
					80,992							12											
GRAND TOTAL					490,897	566,563	2,826	600	1,548	50	3,425	30	2	59	14		9	3					10
					1,057,460		3,426					32				95							

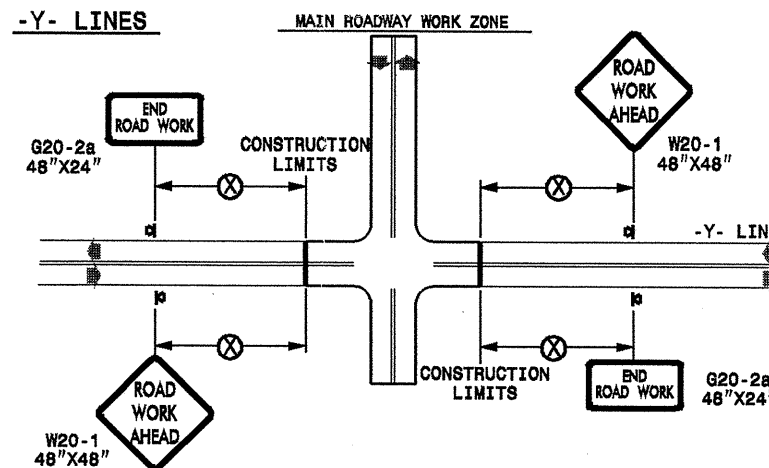
TWO-WAY UNDIVIDED ** (L-LINES)



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 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.

LEGEND

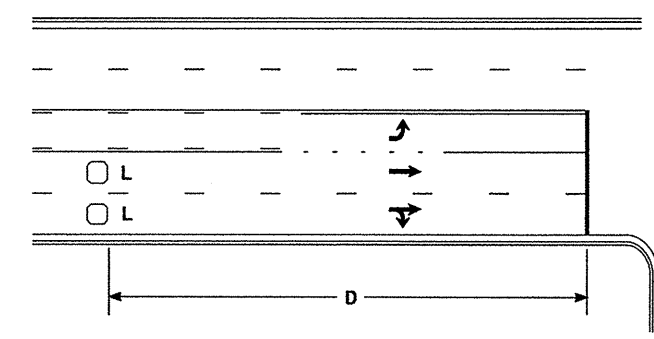
- ◀ PORTABLE SIGN
- ➡ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

**DETAIL DRAWING
FOR TWO-WAY UNDIVIDED
WORK ZONE WARNING SIGNS**

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

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

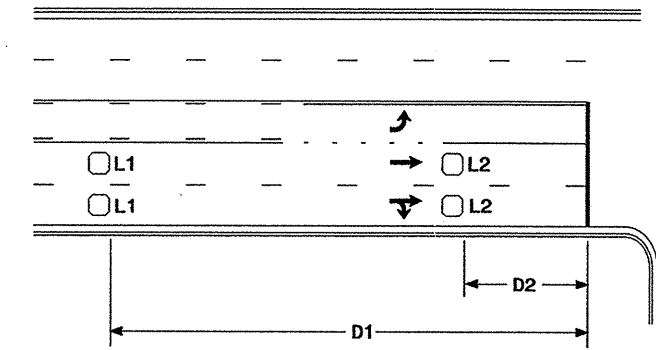


Speed Limit mph (km/hr)	D ft (m)
40 (64)	250 (75)
45 (72)	300 (90)
50 (80)	355 (110)
55 (88)	420 (130)

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



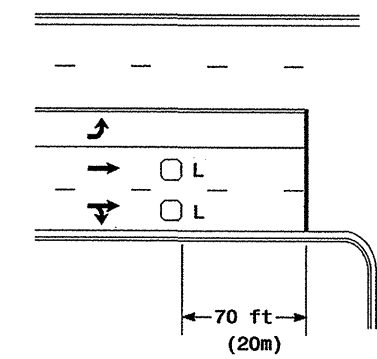
Speed Limit mph (km/hr)	D1 ft (m)	D2 ft (m)
40 (64)	250 (75)	80 (25)
45 (72)	300 (90)	90 (27)
50 (80)	355 (110)	100 (30)
55 (88)	420 (130)	110 (35)

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

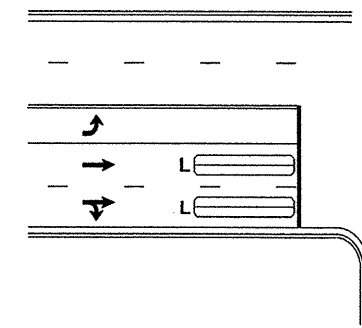
Low Speed Detection [≤35 mph (56 km/hr)]

14CR.10501.5, 14CR.10871.4,
14CR.20501.6 & 14CR.20871.6



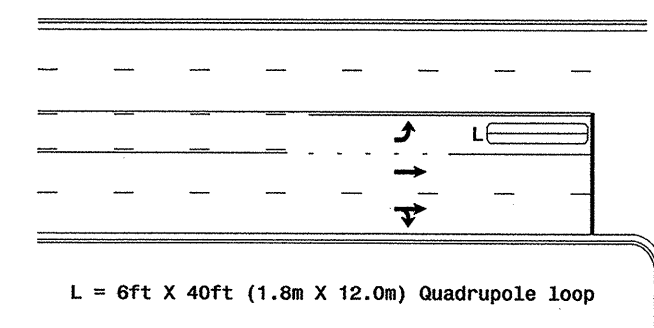
L = 6ft X 6ft (1.8m X 1.8m)
Wired in series

OR



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

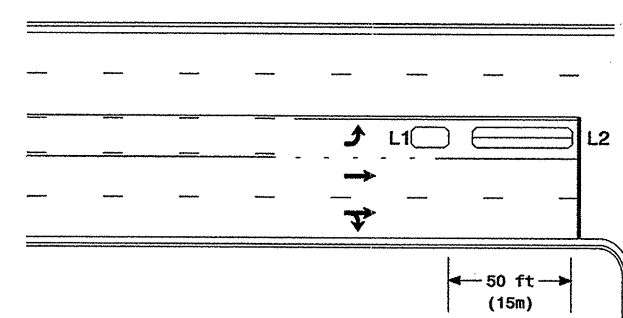
Left Turn Lane Detection



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

Presence Loop Detection

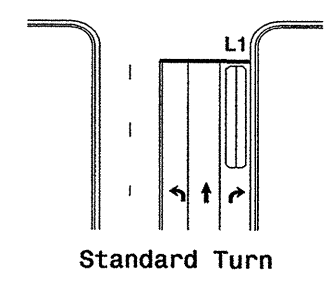
OR



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

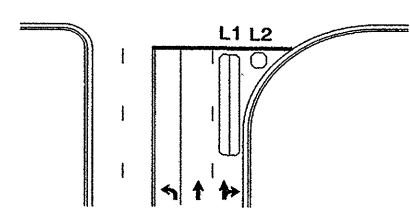
Queue Loop Detection

Right Turn Lane Detection

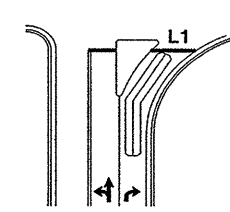


Standard Turn

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

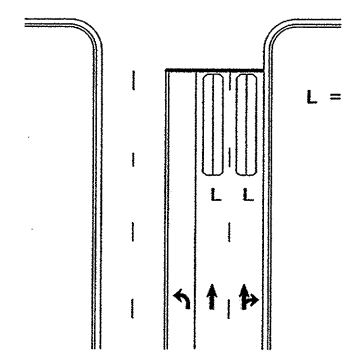


Wide Radius Turn



Channelized Turn

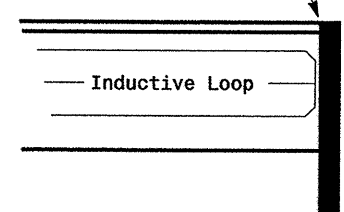
Side Street Detection



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

14-000-2005, 14-139
signal/turn_inmate/loop/typical/2006.dgn
P.L. Alexander

Typical Loop Locations

PLAN DATE: June 2006 REVIEWED BY:
PREPARED BY: P.L. Alexander REVIEWED BY:
SCALE: N/A

REVISIONS

NO.	REVISION	INIT.	DATE
1	Revise pavement markings	aa	12/15/06

SIGNATURE: *P.L. Alexander* DATE: 6/6/06
SIG. INVENTORY NO.

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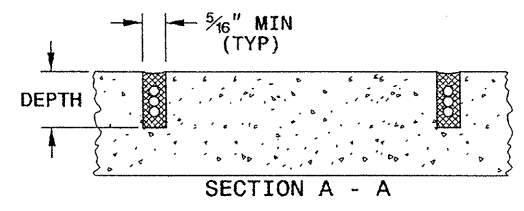
11-08

ENGLISH DETAIL DRAWING FOR
INDUCTIVE DETECTION LOOPS

SHEET 1 OF 3
1725D01

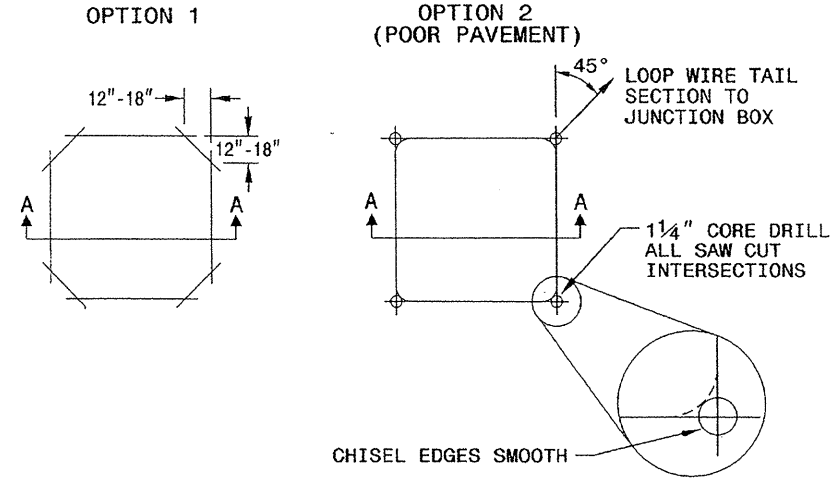
SAW SLOT DEPTH CHART

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	

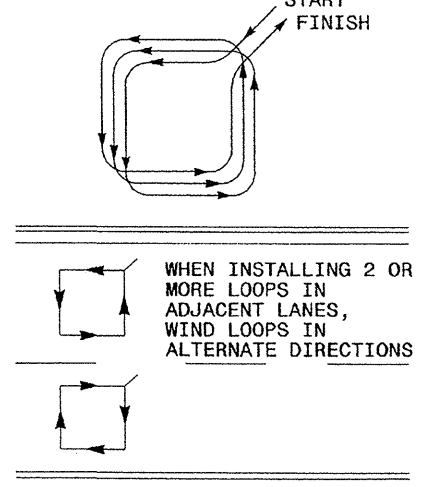


CONVENTIONAL 4-SIDED LOOP

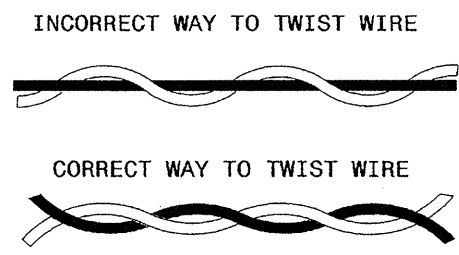
SAW CUT OPTIONS



LOOP WINDING METHOD



LOOP WIRE TWISTING METHOD

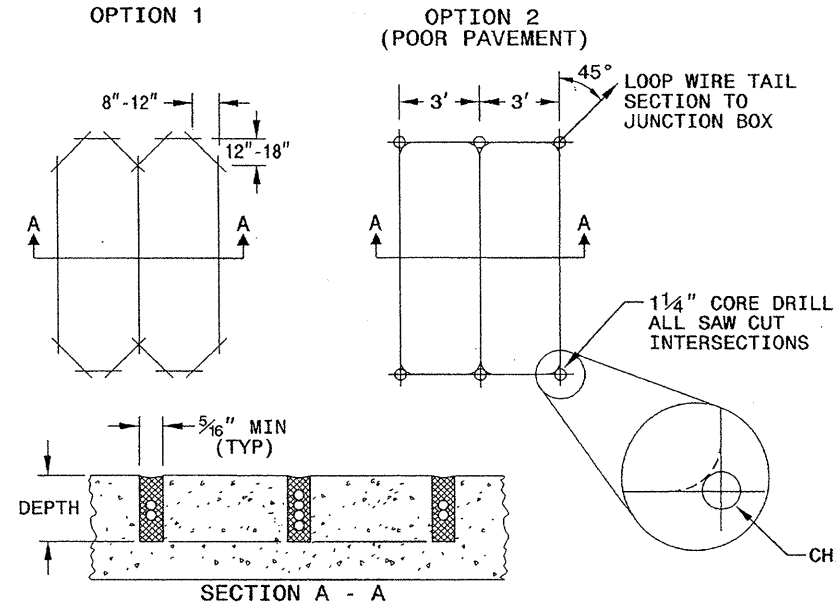


NOTES

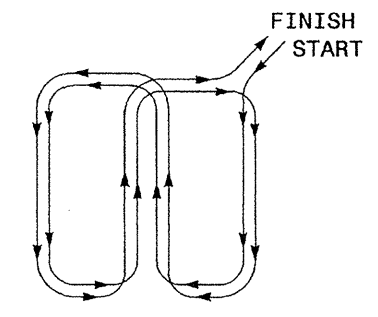
1. OVERLAP SAW CUTS AT CORNERS AND INTERSECTION POINTS TO ENSURE UNIFORM SAW SLOT DEPTH.
2. MAINTAIN 12" SPACING BETWEEN LOOP WIRE TAIL SECTIONS.
3. WIRE LOOPS CONNECTED TO THE SAME DETECTOR CHANNEL IN SERIES.
4. LOCATE LOOPS IN CENTER OF LANES UNLESS OTHERWISE SHOWN ON PLANS OR APPROVED BY ENGINEER.

QUADRUPOLE LOOP

SAW CUT OPTIONS



LOOP WINDING METHOD



DEPTH IS 2.5" FOR CONCRETE AND 3.0" FOR ASPHALT

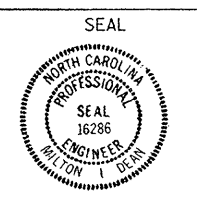
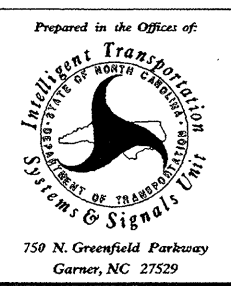
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ENGLISH DETAIL DRAWING FOR
INDUCTIVE DETECTION LOOPS

SHEET 1 OF 3
1725D01

See Plate for Title



Milton I. Dean 1/24/08
SIGNATURE DATE

750 N. Greenfield Parkway
Garner, NC 27529

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RALEIGH, N.C.

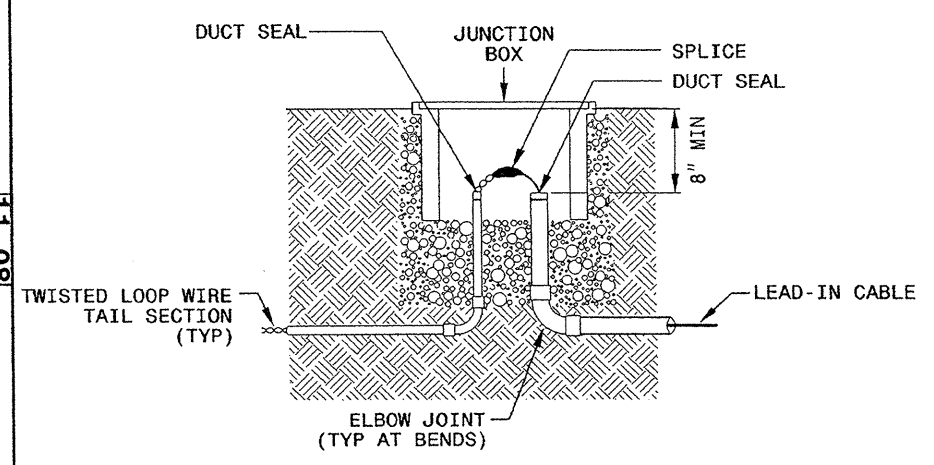
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ENGLISH DETAIL DRAWING FOR
INDUCTIVE DETECTION LOOPS
LOOP WIRE DETAILS

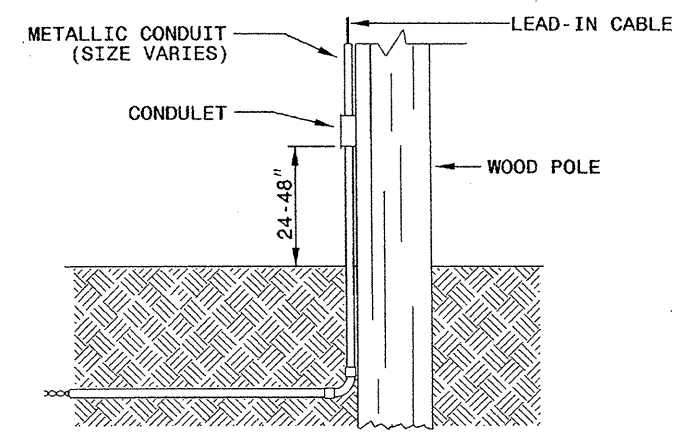
SHEET 2 OF 3
1725D01

LOOP WIRE SPLICE POINT DETAILS

LOOP WIRE AT JUNCTION BOX



LOOP WIRE AT POLE

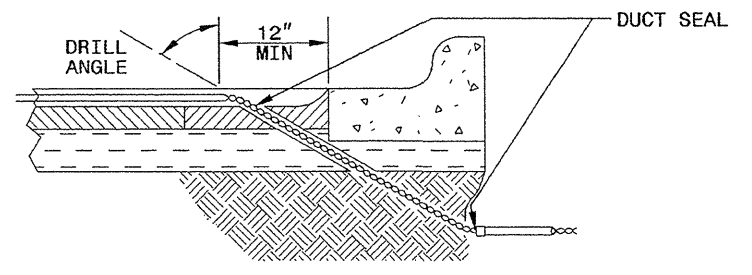


NOTE

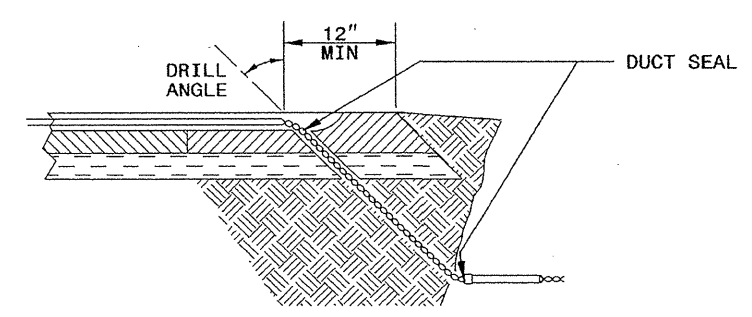
SPLICE ALL LOOP WIRE TAIL SECTIONS/LEAD-IN CABLE IN JUNCTION BOXES OR APPROVED CONDULETS.

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.

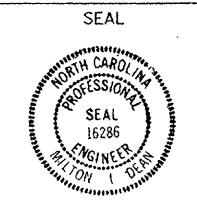
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ENGLISH DETAIL DRAWING FOR
INDUCTIVE DETECTION LOOPS
LOOP WIRE DETAILS

SHEET 2 OF 3
1725D01

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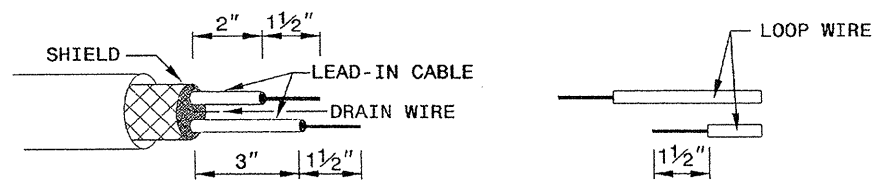
Milton J. Allen 11/24/08
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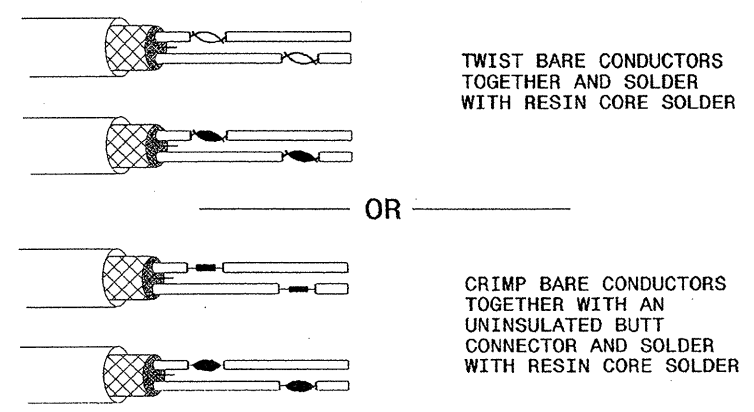
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ENGLISH DETAIL DRAWING FOR
INDUCTIVE DETECTION LOOPS
SPlicing FOR LEAD-IN CABLE AND LOOP WIRE

SHEET 3 OF 3
1725D01

STEP 1. STRIP LOOP WIRE AND LEAD-IN CABLE

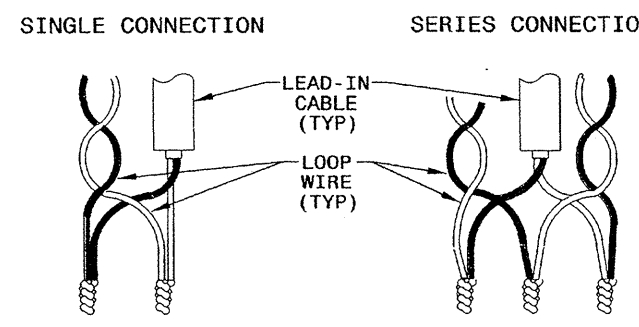


STEP 2. CONNECT AND SOLDER

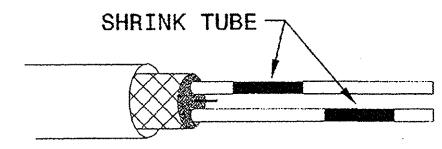


BOND SHIELD DRAIN WIRE AT SPLICE SECTIONS (DO NOT GROUND)

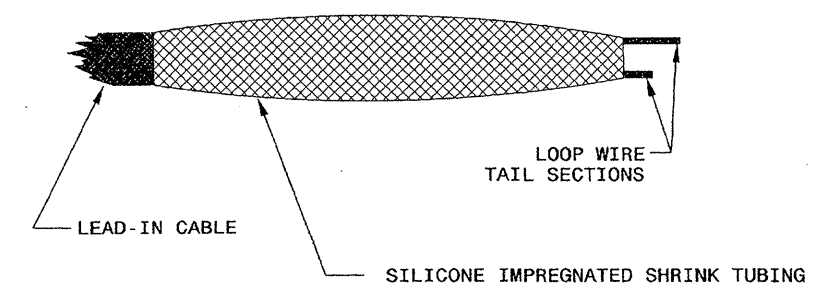
LOOP WIRE AND LEAD-IN CABLE CONNECTION DETAILS



STEP 3. INSULATE EACH SOLDER JOINT SEPARATELY



STEP 4. ENVIRONMENTALLY PROTECT SPLICE



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

SHEET 3 OF 3
1725D01

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Prepared in the Offices of:

750 N. Greenfield Parkway
Garner, NC 27529

SEAL

Milton I. Dean 11/24/08
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24-NOV-2008 09:16
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