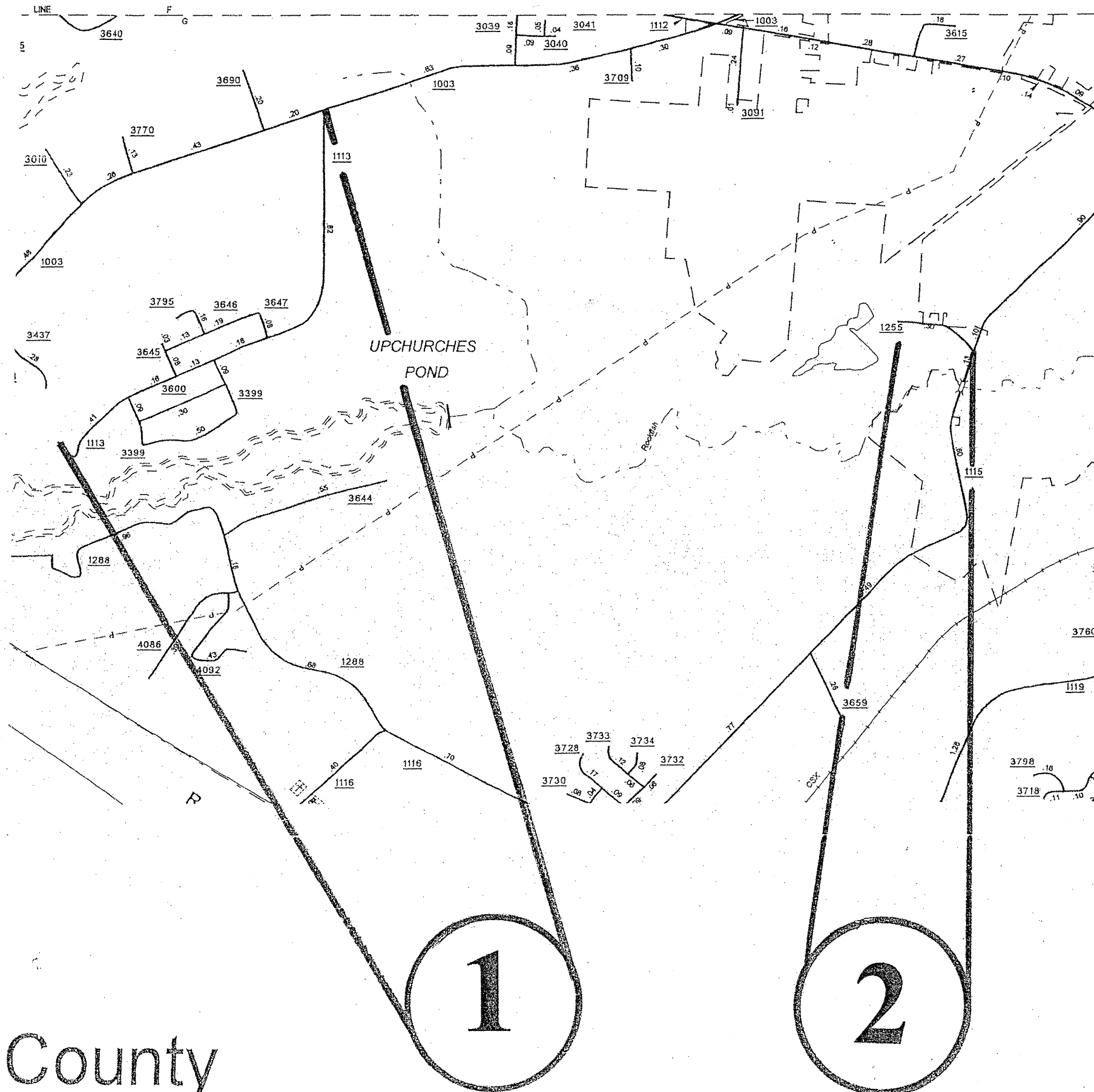
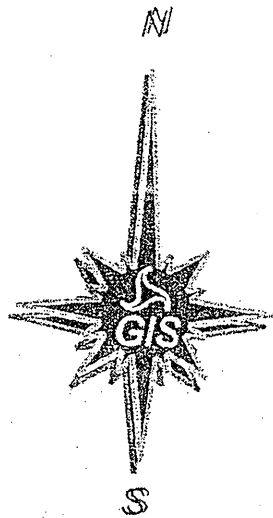


PROJECT NO.	SHEET NO.	TOTAL NO.
6cr.20261.37, 6cr.20431.37	1	2



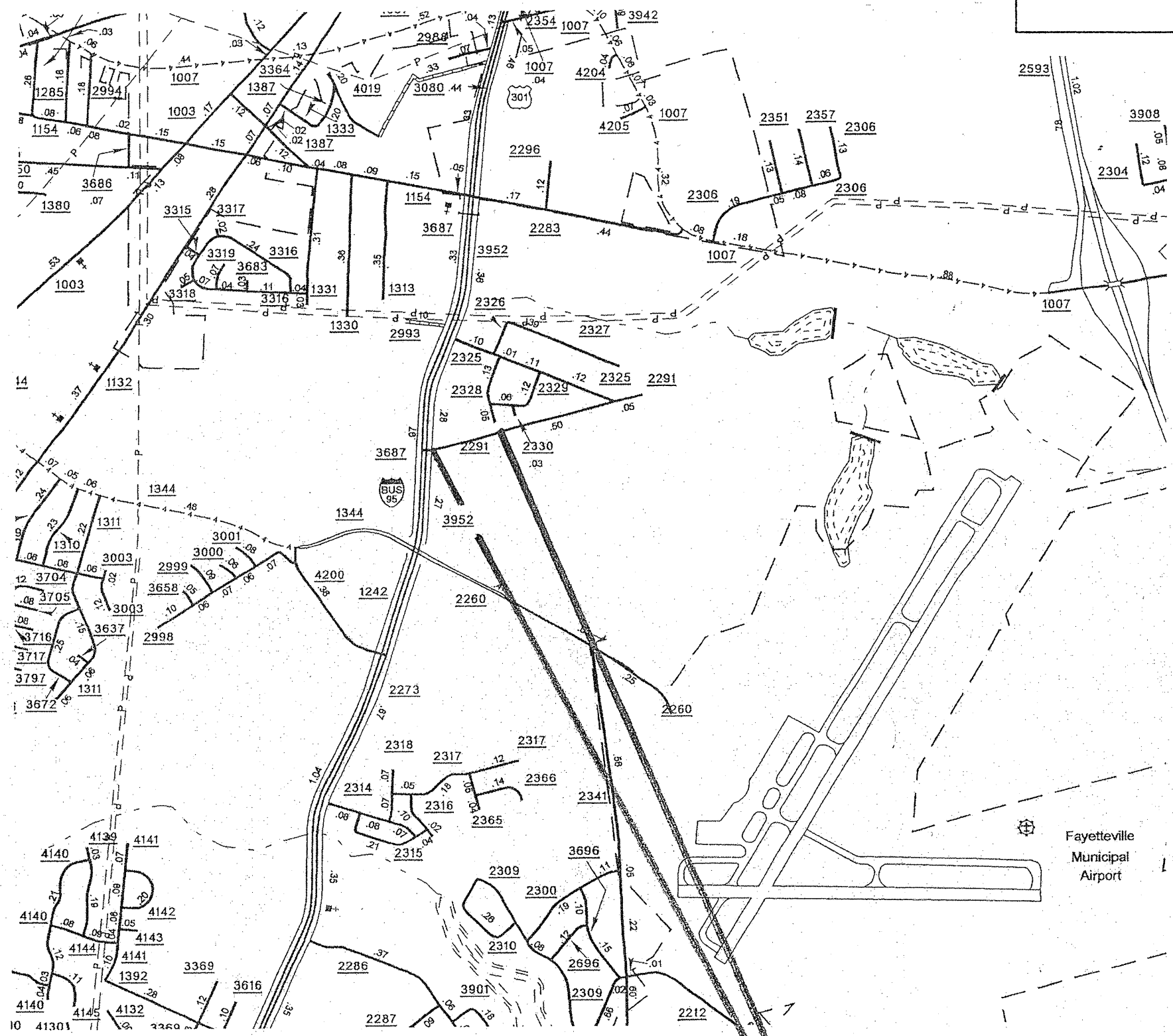
**1**

**2**

Cumberland County



PROJECT NO.	SHEET NO.	TOTAL NO.
6cr.20261.37, 6cr.20431.37	3	12

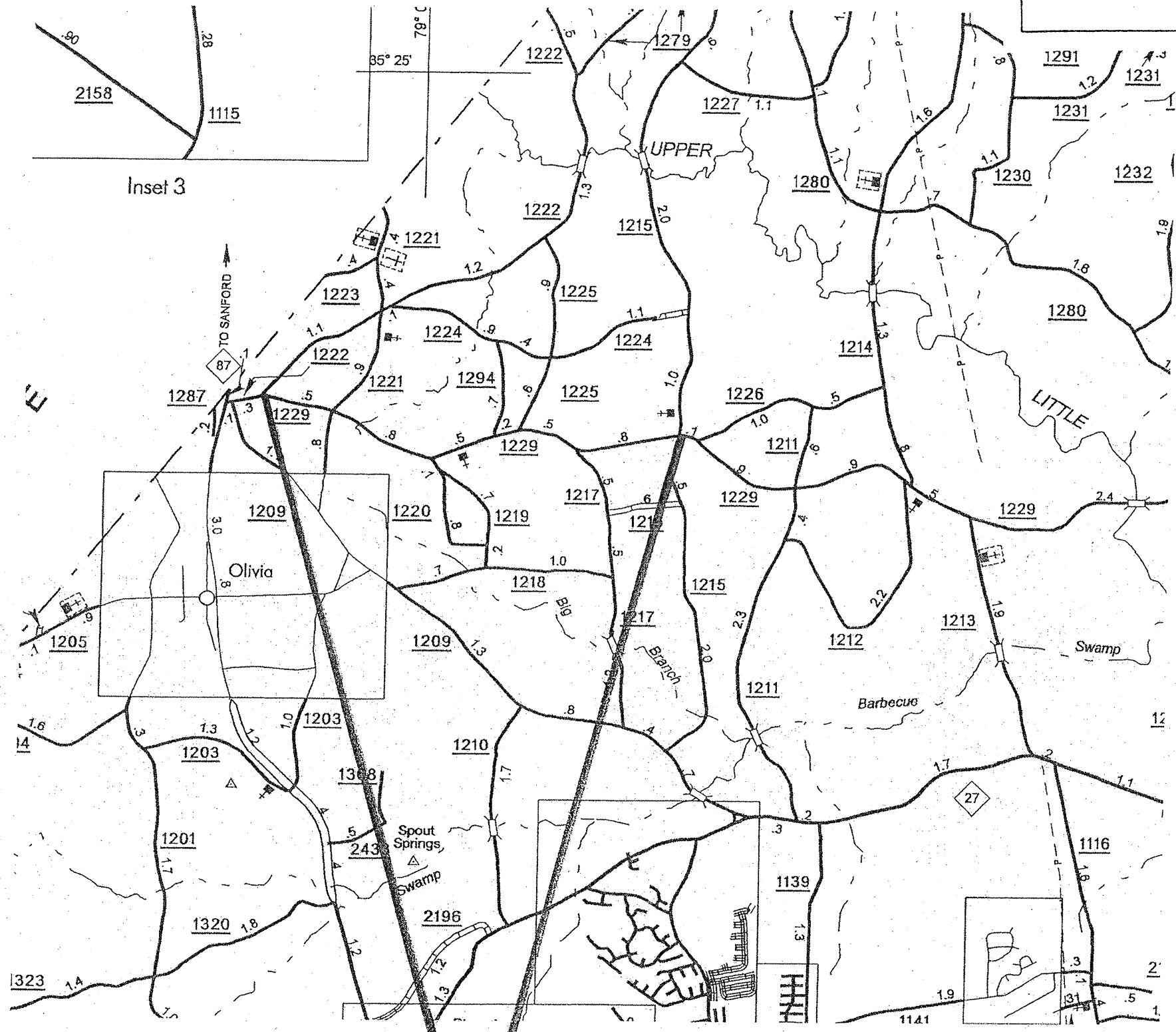
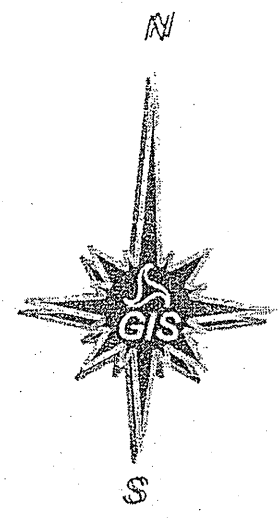


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Cumberland County



PROJECT NO.	SHEET NO.	TOTAL NO.
6cr.20261.37, 6cr.20431.37	5	12

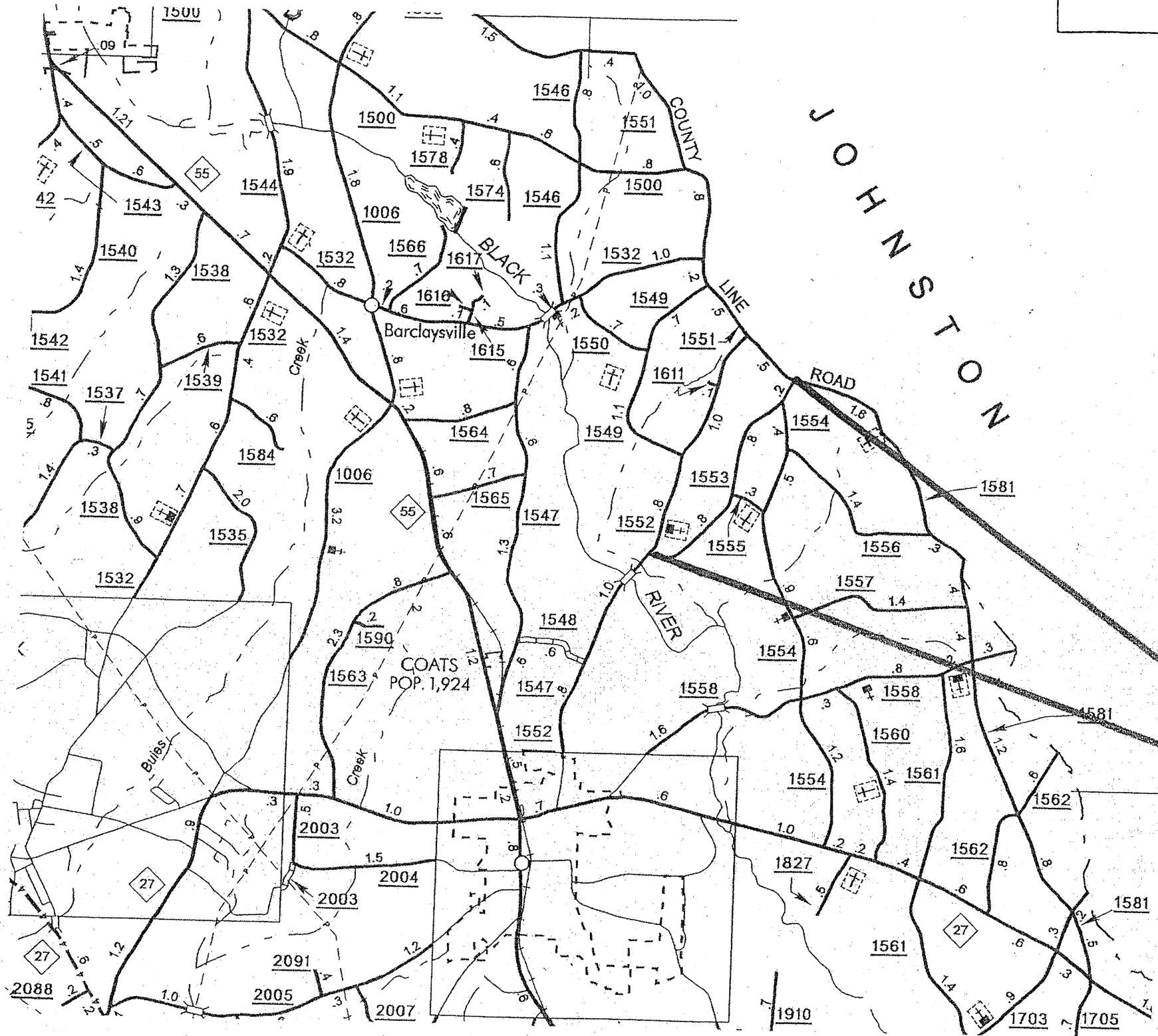
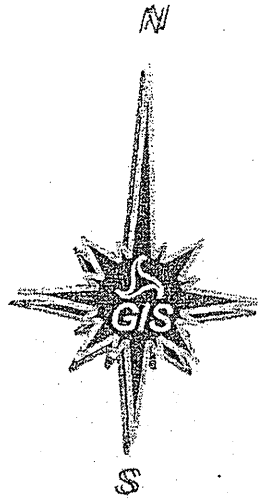


E

9

Harnett County

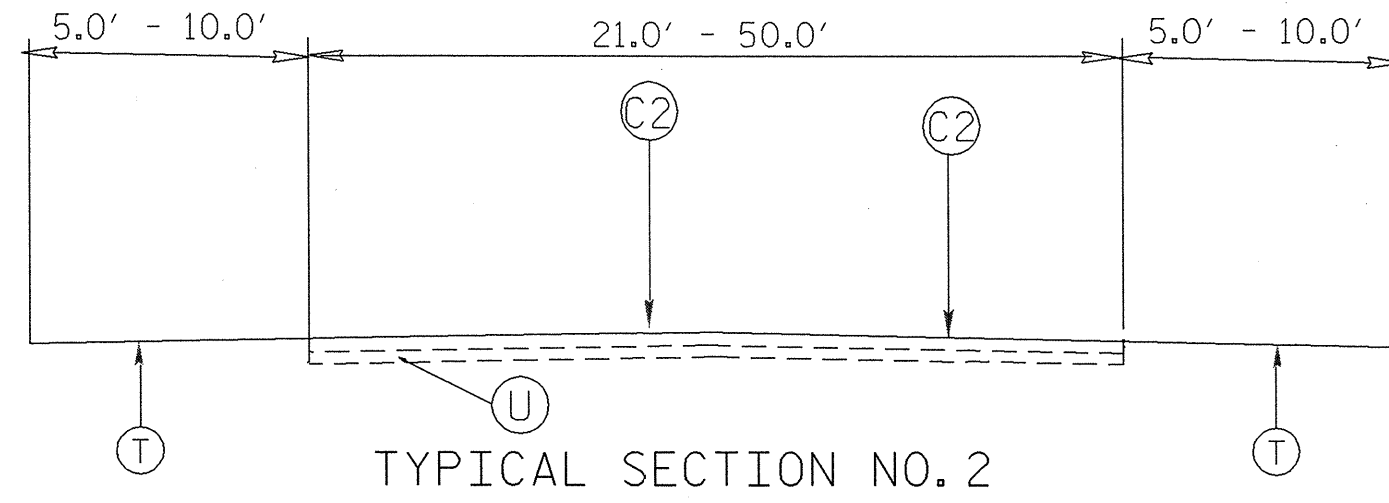
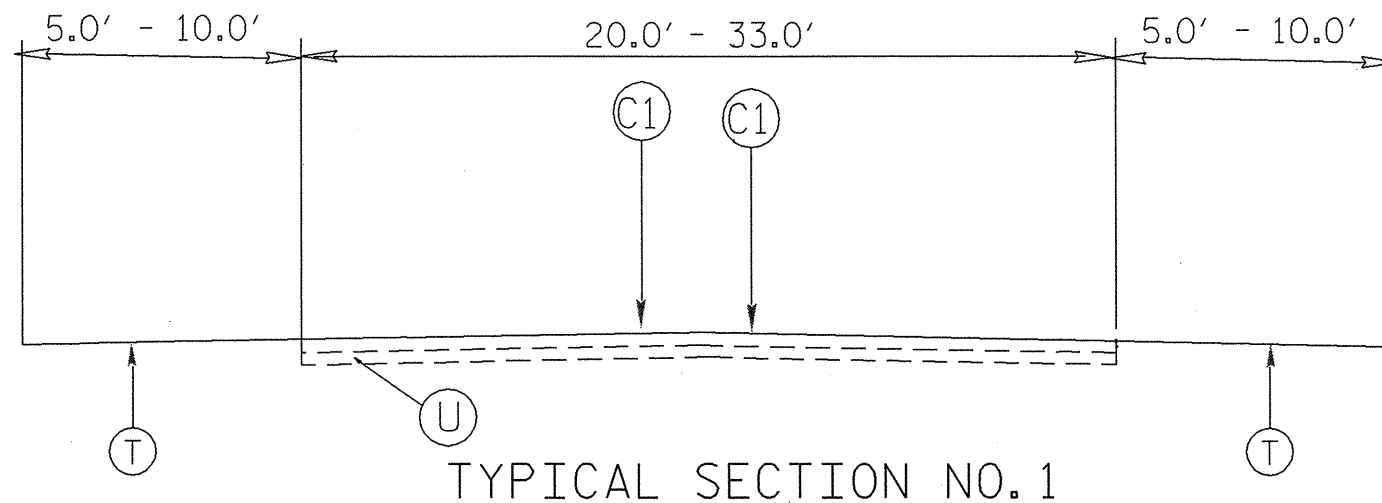
PROJECT NO.	SHEET NO.	TOTAL NO.
6cr.20261.37, 6cr.20431.37	6	12



Harnett County

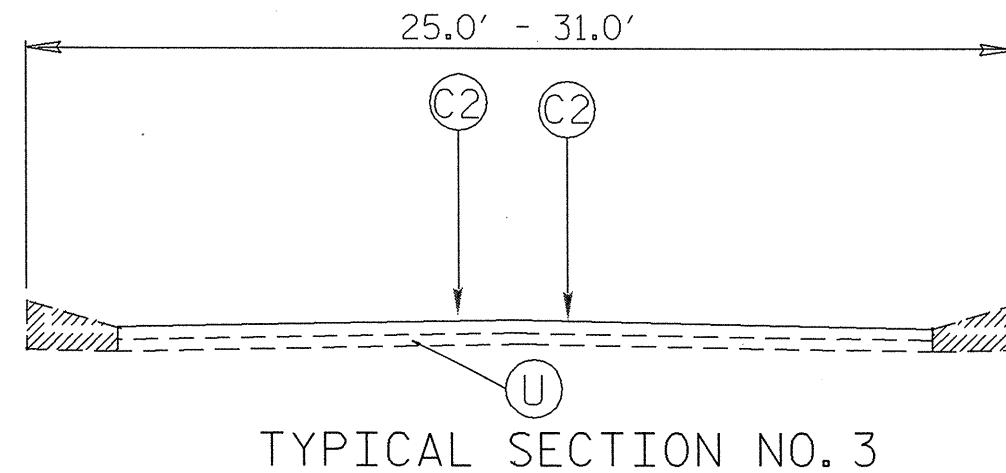


PROJECT NO.	SHEET NO.	TOTAL SHEETS
6CR.20261.37 6CR.20431.37	8	12



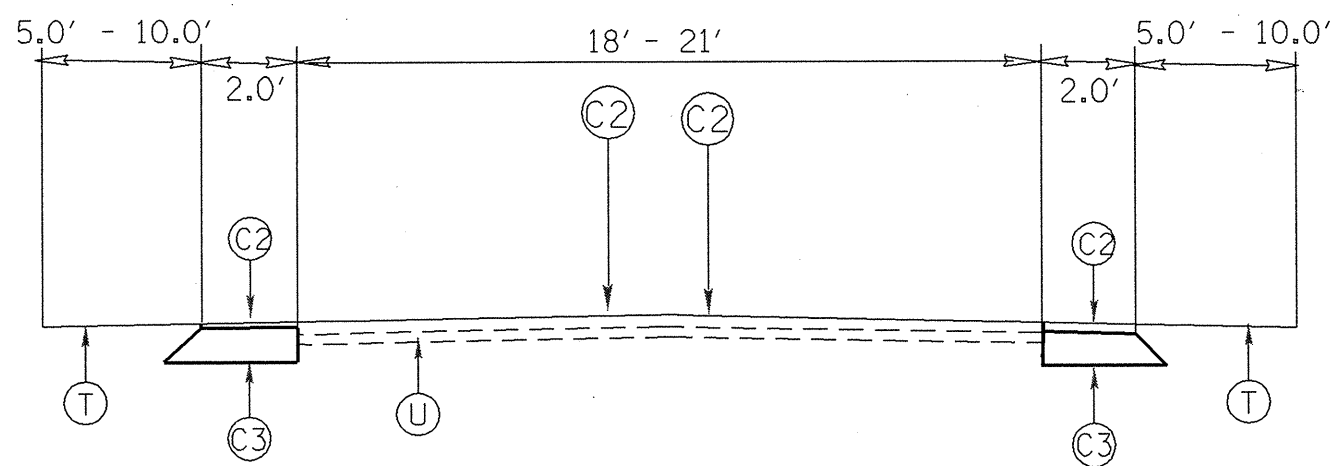
**PAVEMENT SCHEDULE**

<b>C1</b>	PROP. APPROX. 1.50" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
<b>C2</b>	PROP. APPROX. 1.50" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
<b>C3</b>	PROP. APPROX. 4.00" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
<b>M1</b>	MILLING AT A DEPTH OF 0" TO 1.50" TO BE MILLED TO A DEPTH OF 1.50" BELOW THE GUTTER AT EP AS DIRECTED BY THE ENGINEER.
<b>T</b>	SHOULDER RECONSTRUCTION
<b>U</b>	EXISTING PAVEMENT



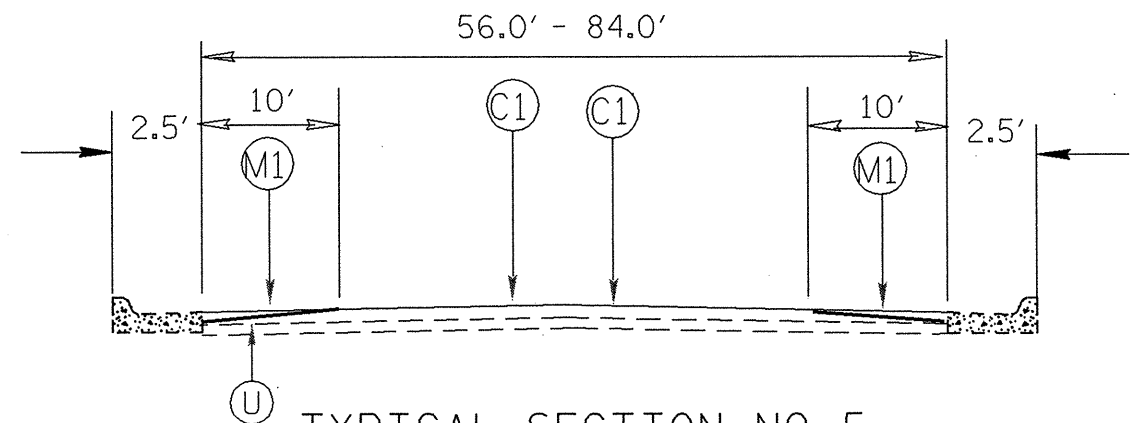
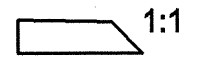


PROJECT NO.	SHEET NO.	TOTAL SHEETS
6CR.20261.37 6CR.20431.37	9	12



TYPICAL SECTION NO. 4

- \* ENTIRE ROADWAY TO INCLUDE 2' SYMMETRICAL WIDENING TO BE OVERLAID WITH 1.5" OF SF9.5A.
- \* SEE SPECIAL PROVISIONS FOR MILLING
- \* PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE

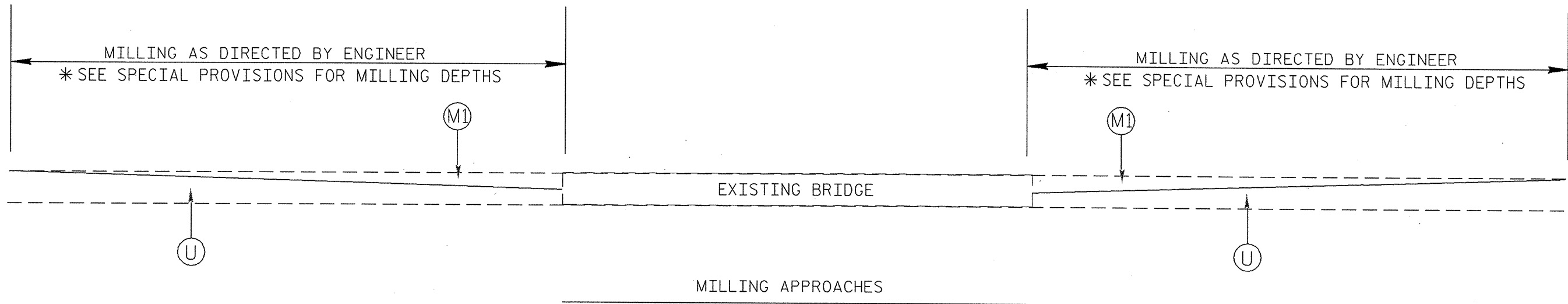


TYPICAL SECTION NO. 5

- \* SEE SPECIAL PROVISIONS FOR ADDITIONAL MILLING

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.50" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.50" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C3	PROP. APPROX. 4.00" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
M1	MILLING AT A DEPTH OF 0" TO 1.50" TO BE MILLED TO A DEPTH OF 1.50" BELOW THE GUTTER AT EP AS DIRECTED BY THE ENGINEER.
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT

PROJECT NO.	SHEET NO.	TOTAL SHEETS
6CR.20261.37	10	12
6CR.20431.37		



PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.50" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.50" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C3	PROP. APPROX. 4.00" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
M1	MILLING AT A DEPTH OF 0" TO 1.50" TO BE MILLED TO A DEPTH OF 1.50" BELOW THE GUTTER AT EP AS DIRECTED BY THE ENGINEER.
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT

PROJECT NO.	SHEET NO.	TOTAL NO.
6cr.20261.37, 6cr.20431.37	11	12

## SUMMARY OF QUANTITIES

PROJECT NO.	COUNTY	MAP NO.	ROUTE	DESCRIPTION	TYP	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	0" TO 1.5" MILLING SY	INTERMEDIATE COURSE, I19.0B TONS	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	PG 64-22 PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ADJUSTMENT OF MANHOLES EA	ADJUSTMENT OF METER OR VALVE BOX EA	SEED & MULCHING AC	PAVED TRENCHING FT	UNPAVED TRENCHING FT	JUNCTION BOX (STANDARD) EA	JUNCTION BOX (OVERSIZED, HEAVY DUTY) EA	2" RISER WITH WEATHER HEAD EA	INDUCTIVE LOOP LF	LEAD-IN CABLE LF	2" PVC CONDUIT FT	1" PVC CONDUIT FT		
6cr.20261.37	Cumberland	1	SR 1113	FROM SR 1003 TO DEAD END	2	NO	1.5	21	36	3				1586	103	50	1	1	3.64											
TOTAL FOR MAP NO. 1							1.5		36	3				1586	103	50	1	1	3.64											
		2	SR 1255	FROM SR 1115 TO DEAD END	3	NO	0.28	25						351	23	60														
TOTAL FOR MAP NO. 2							0.28		0	0				351	23	60														
		3	SR 1404	FROM US 401 BYPASS TO SR 1403	5	NO	2.69	56.5			35209		8208		492	70	25	12		45.00	200.00	5.00	2.00	6.00	9,000.00	30,000.00	150.00	30.00		
TOTAL FOR MAP NO. 3							2.69		0	0	35209		8208	0	492	70	25	12		45.00	200.00	5.00	2.00	6.00	9,000.00	30,000.00	150.00	30.00		
		4	SR 2291	FROM SR 2273 TO END OF THE CURB AND GUTTER SECTION	3	NO	0.14	25						182	12	40	1													
TOTAL FOR MAP NO. 4							0.14		0	0	0			182	12	40	1													
		5	SR 3065	FROM SR 1135 TO THE PAVEMENT JOINT AT SR 1133	3	NO	0.57	28						847	55	35	8	2												
TOTAL FOR MAP NO. 5							0.57		0	0	0			847	55	35	8	2												
		6	SR 3066	FROM SR 3065 TO DEAD END	3	NO	0.09	28						134	9	2	1	1												
TOTAL FOR MAP NO. 6							0.09		0	0	0			134	9	2	1	1												
		7	SR 3067	FROM SR 3065 TO SR 3065	3	NO	0.24	28						350	23	10	1	2												
TOTAL FOR MAP NO. 7							0.24		0	0	0			350	23	10	1	2												
		8	SR 3068	FROM SR 3065 TO SR 3065	3	NO	0.35	28						499	32	15	1													
TOTAL FOR MAP NO. 8							0.35		0	0	0			499	32	15	1													
TOTAL FOR PROJ NO. 6cr.20261.37							5.86		36	3	35209		8208	3949	749	282	38	18	3.64	45.00	200.00	5.00	2.00	6.00	9,000.00	30,000.00	150.00	30.00		
6cr.20431.37	Harnett	9	SR 1229	FROM SR 1215 TO SR 1222	4	NO	3.34	24	80	6.68		2082		3925	353	15			8.10											
TOTAL FOR MAP NO. 9							3.34		80	6.68	0	2082	0	3925	353	15			8.10											
		10	SR 1553	FROM SR 1552 TO SR 1581	4	NO	1.87	22	45	3.74		1165		2041	187	50			4.53											
TOTAL FOR MAP NO. 10							1.87		45	3.74	0	1165	0	2041	187	50			4.53											
		11	SR 1709	FROM SR 1808 TO THE PAVEMENT JOINT IN FRONT OF THE TRUCK STOP	1	NO	0.63	24	15	1.26			758		45	10			1.53											
TOTAL FOR MAP NO. 11							0.63		15	1.26	0	0	758	0	45	10			1.53											
		12	SR 1810	FROM US 301 TO SR 1709	4	NO	1.37	23	33	2.74	1226	854		1575	143	15		4	3.32											
TOTAL FOR MAP NO. 12							1.37		33	2.74	1226	854	0	1575	143	15		4	3.32											
TOTAL FOR PROJ NO. 6cr.20431.37							7.21		173	14.42	1226	4101	758	7541	728	90		4	17.48											
GRAND TOTAL							13.07		209	17.42	36435	4101	8966	11490	1477	372	38	22	21.12	45.00	200.00	5.00	2.00	6.00	9,000.00	30,000.00	150.00	30.00		

PROJECT NO.	SHEET NO.	TOTAL NO.
6cr.20261.37, 6cr.20431.37	12	12

## THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4686000000-E		4697000000-E	4695000000-E	4705000000-E	4710000000-E	4721000000-E		4725000000-E				4810000000-E		4820000000-E	4835000000-E	4840000000-N	4900000000-N		
					4" X 120 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	8" 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 MSG SCHOOL 120 M EA	THERMO MSG ONLY 120 M EA	THERMO RXR 120 M EA	THERMO LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	THERMO STR ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	8" WHITE PAINT LF	24" WHITE PAINT LF	PAINT MSG SCHOOL EA	CYAN & RED MARKERS EA	YELLOW & YELLOW MARKERS EA
6cr.20261.37	Cumberland	1	SR 1113	FROM SR 1003 TO DEAD END																				
TOTAL FOR MAP NO. 1																								
		2	SR 1255	FROM SR 1115 TO DEAD END																				
TOTAL FOR MAP NO. 2																								
		3	SR 1404	FROM US 401 BYPASS TO SR 1403	39,875	9,570	300	1,400		725	12	16		98	41	58	12	9,570	39,875	1,700	725	12	400	400
TOTAL FOR MAP NO. 3					39,875	9,570	300	1,400		725	12	16		98	41	58	12	9,570	39,875	1,700	725	12	400	400
		4	SR 2291	FROM SR 2273 TO END OF THE CURB AND GUTTER SECTION																				
TOTAL FOR MAP NO. 4																								
		5	SR 3065	FROM SR 1135 TO THE PAVEMENT JOINT AT SR 1133																				
TOTAL FOR MAP NO. 5																								
		6	SR 3066	FROM SR 3065 TO DEAD END																				
TOTAL FOR MAP NO. 6																								
		7	SR 3067	FROM SR 3065 TO SR 3065																				
TOTAL FOR MAP NO. 7																								
		8	SR 3068	FROM SR 3065 TO SR 3065																				
TOTAL FOR MAP NO. 8																								
TOTAL FOR PROJ NO. 6cr.20261.37					39,875	9,570	300	1,400		725	12	16		98	41	58	12	41,570	67,075	1,700	725	12	400	400
					49,445							28			209		108,645							
6cr.20431.37	Harnett	9	SR 1229	FROM SR 1215 TO SR 1222														70,400	56,320					
TOTAL FOR MAP NO. 9																		70,400	56,320					
		10	SR 1553	FROM SR 1552 TO SR 1581														40,000	34,000					
TOTAL FOR MAP NO. 10																		40,000	34,000					
		11	SR 1709	FROM SR 1808 TO THE PAVEMENT JOINT IN FRONT OF THE TRUCK STOP														13,400	10,720					
TOTAL FOR MAP NO. 11																		13,400	10,720					
		12	SR 1810	FROM US 301 TO SR 1709				100	130				4					29,000	26,100					
TOTAL FOR MAP NO. 12								100	130				4					29,000	26,100					
TOTAL FOR PROJ NO. 6cr.20431.37								100	130				4					152,800	127,140					
												4					279,940							
GRAND TOTAL					39,875	9,570	300	1,400	100	855	12	16	4	98	41	58	12	194,370	194,215	1,700	725	12	400	400
					49,445							32			209		388,585						800	











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

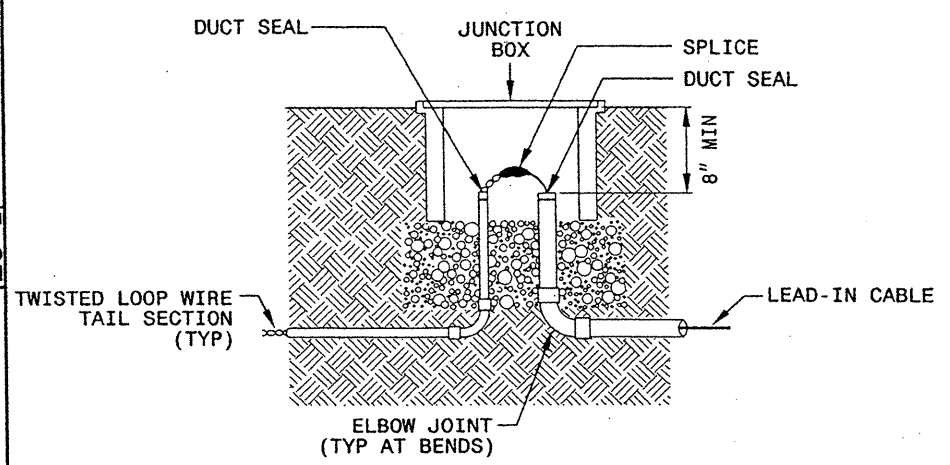
5-07

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

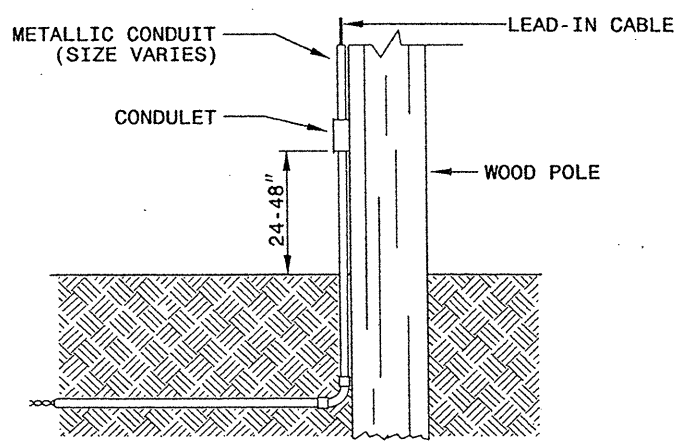
SHEET 2 OF 3  
**1725D01**

**LOOP WIRE SPLICE POINT DETAILS**

**LOOP WIRE AT JUNCTION BOX**



**LOOP WIRE AT POLE**

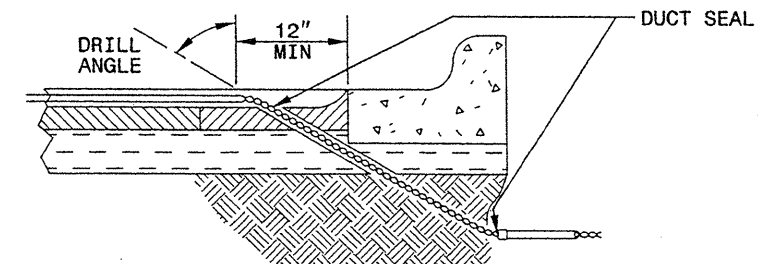


**NOTE**

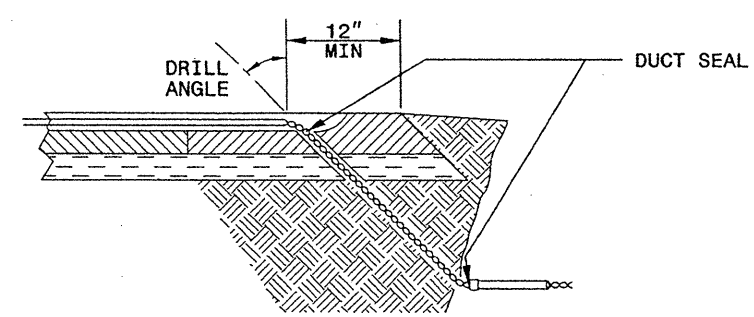
SPLICE ALL LOOP WIRE TAIL SECTIONS/LEAD-IN CABLE IN JUNCTION BOXES OR APPROVED CONDULETS.

**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.

STATE OF NORTH CAROLINA  
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 DIVISION OF HIGHWAYS  
 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

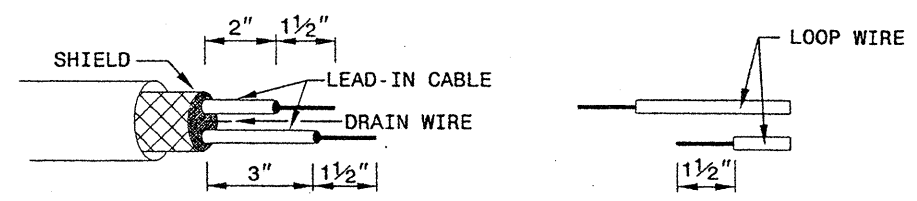
STATE OF  
NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

5-07

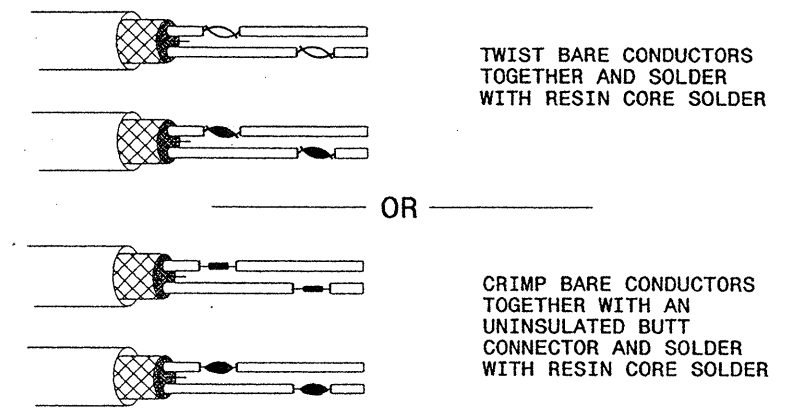
ENGLISH DETAIL DRAWING FOR  
**INDUCTION DETECTION LOOPS**  
SPlicing FOR LEAD-IN CABLE AND LOOP WIRE

SHEET 3 OF 3  
**1725D01**

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

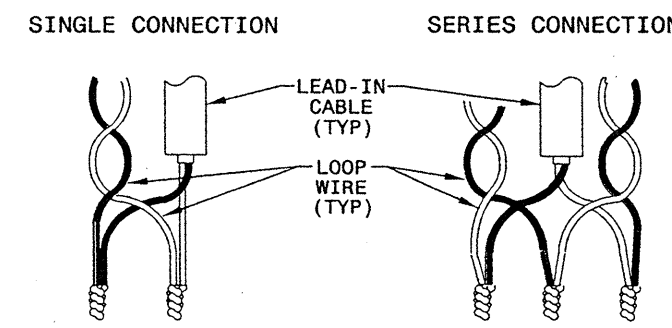


**STEP 2. CONNECT AND SOLDER**

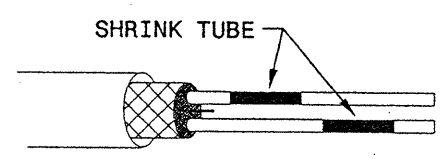


BOND SHIELD DRAIN WIRE AT SPLICE SECTIONS (DO NOT GROUND)

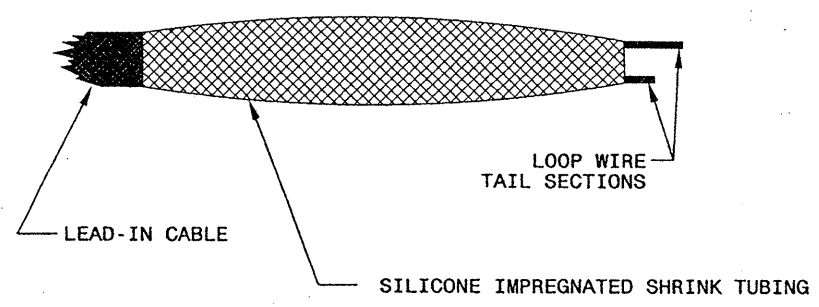
**LOOP WIRE AND LEAD-IN CABLE CONNECTION DETAILS**



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



**STEP 4. ENVIRONMENTALLY PROTECT SPLICE**



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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 Offices of:

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Garner, NC 27529

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Milton L. Dean 9/5/07  
SIGNATURE DATE

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