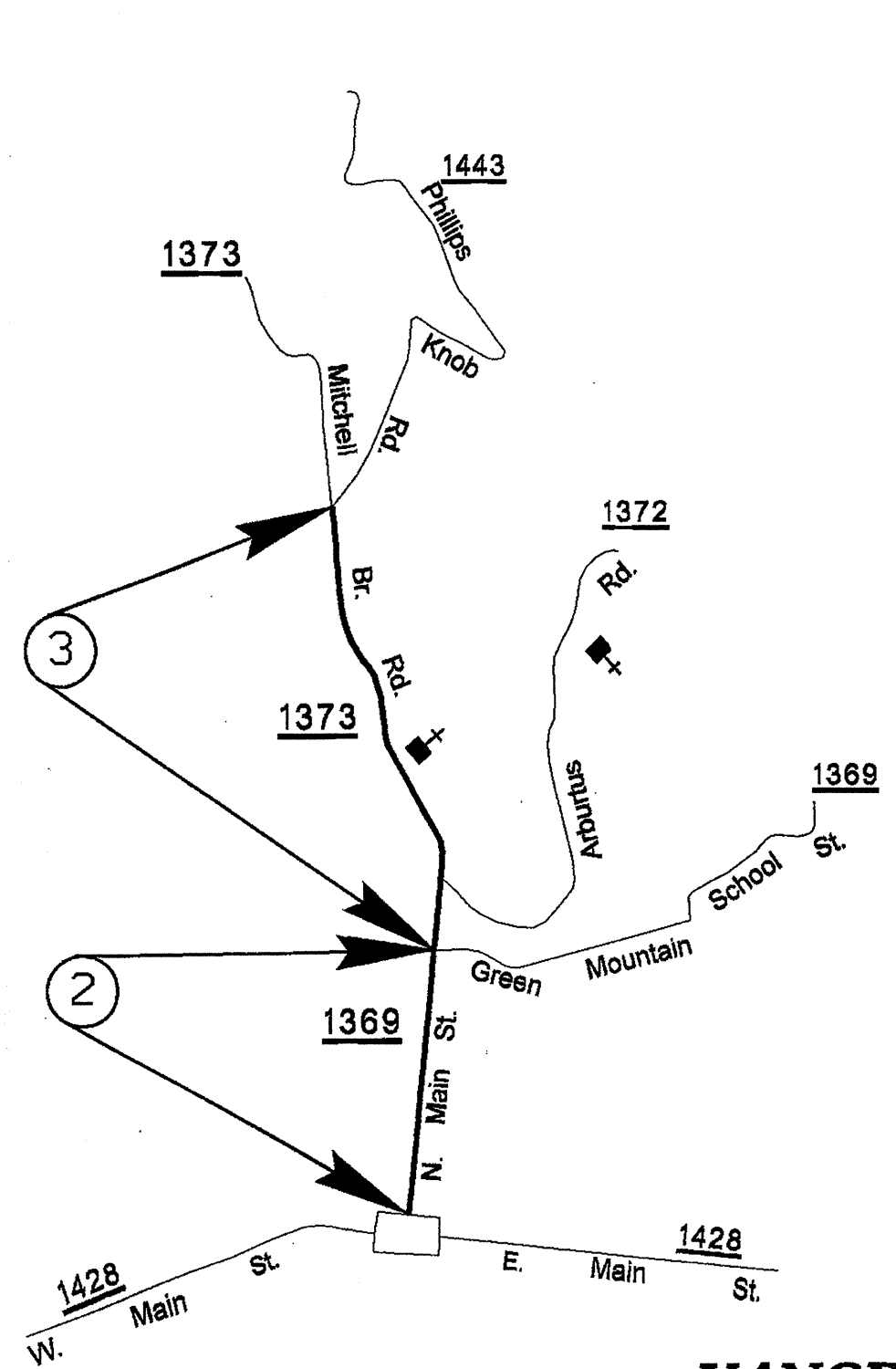
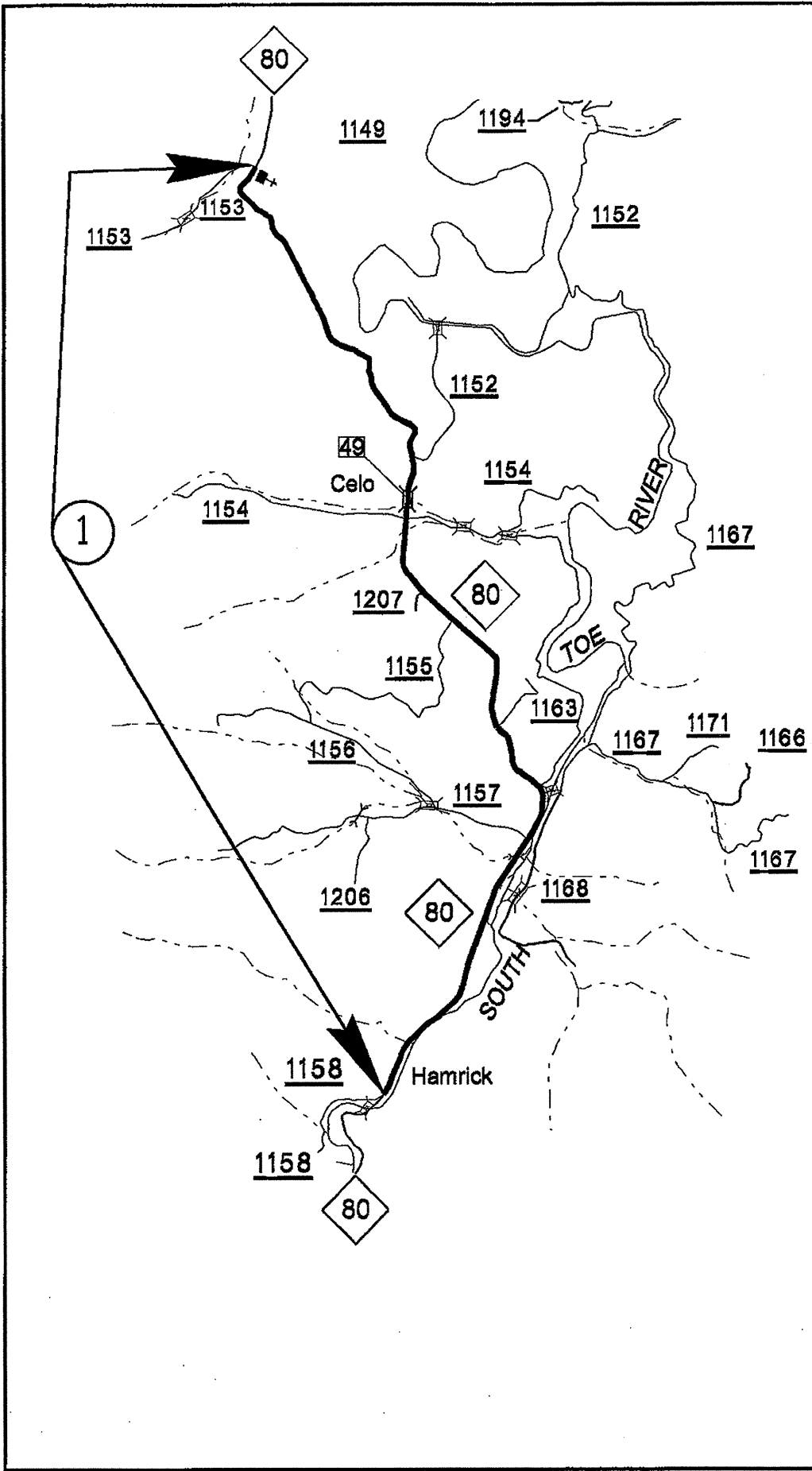
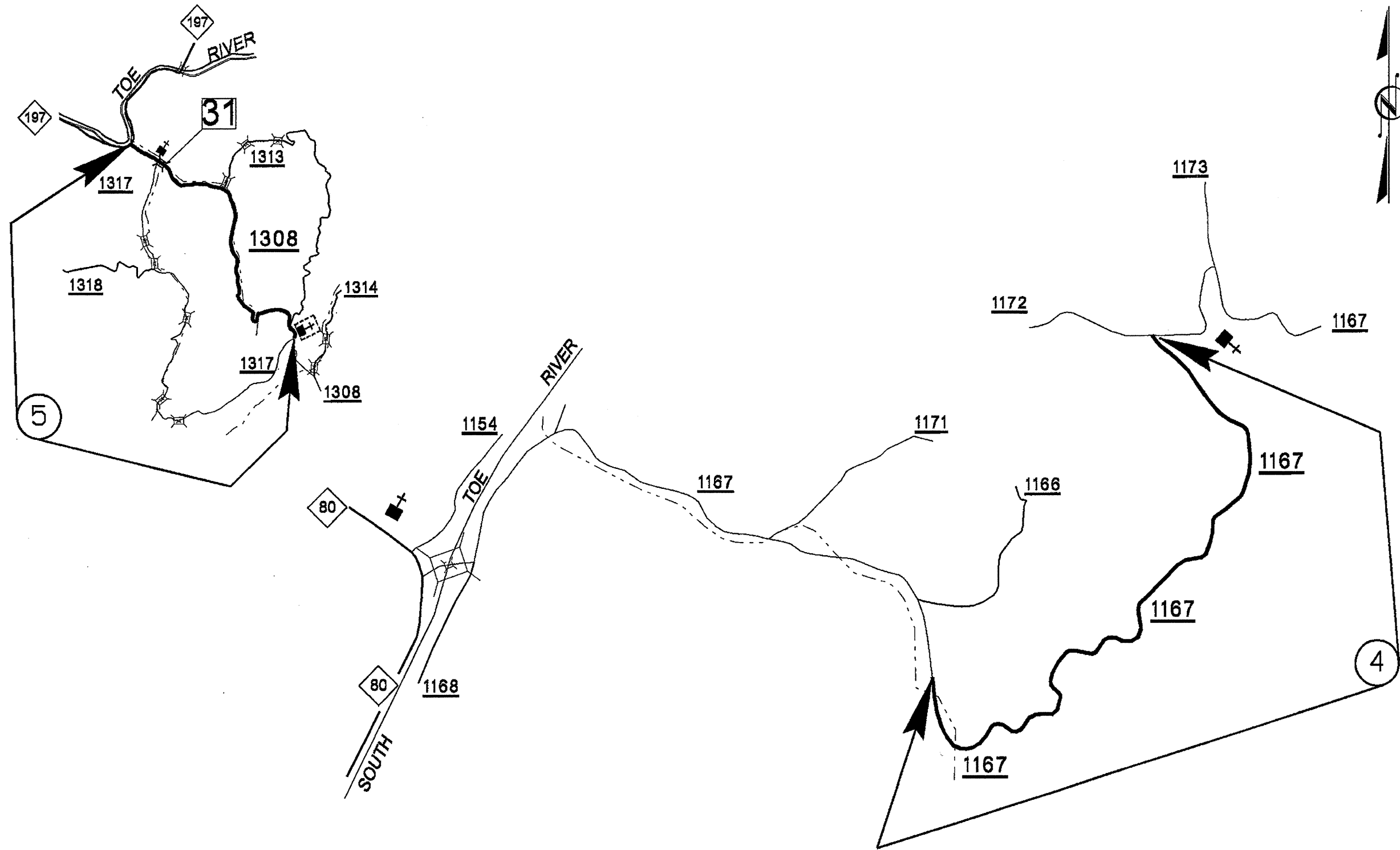


PROJECT NO.	SHEET NO.	TOTAL SHEETS
13CR.11001.12	1	
13CR.21001.12		



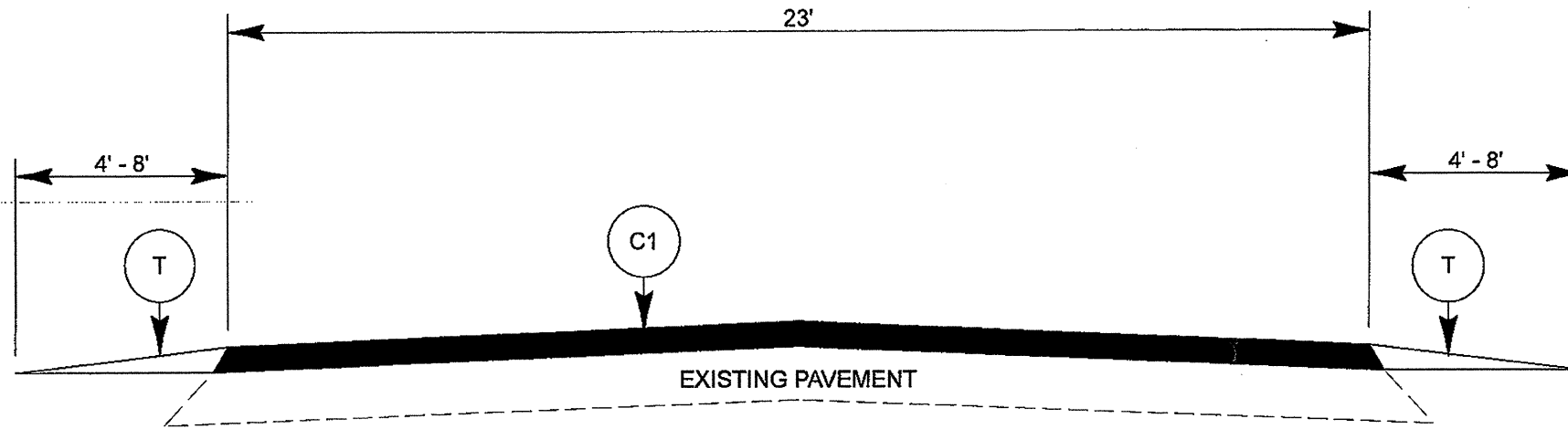
**YANCEY COUNTY**

PROJECT NO.	SHEET NO.	TOTAL SHEETS
13CR.11001.12 13CR.21001.12	2	

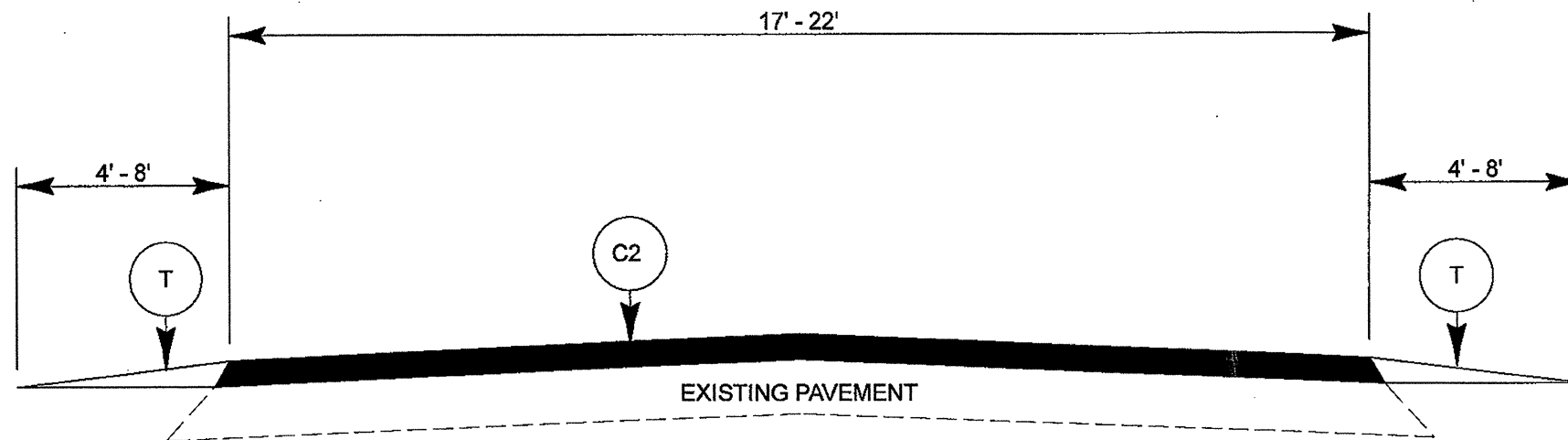
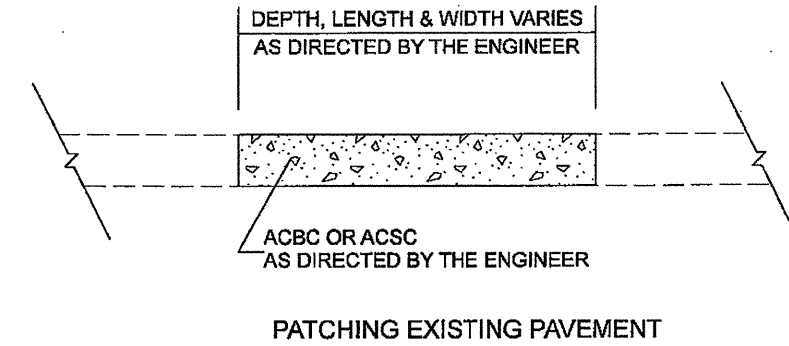


**YANCEY COUNTY**

PROJECT NO.	SHEET NO.	TOTAL SHEETS
13CR.11001.12, 13CR.21001.12	3	



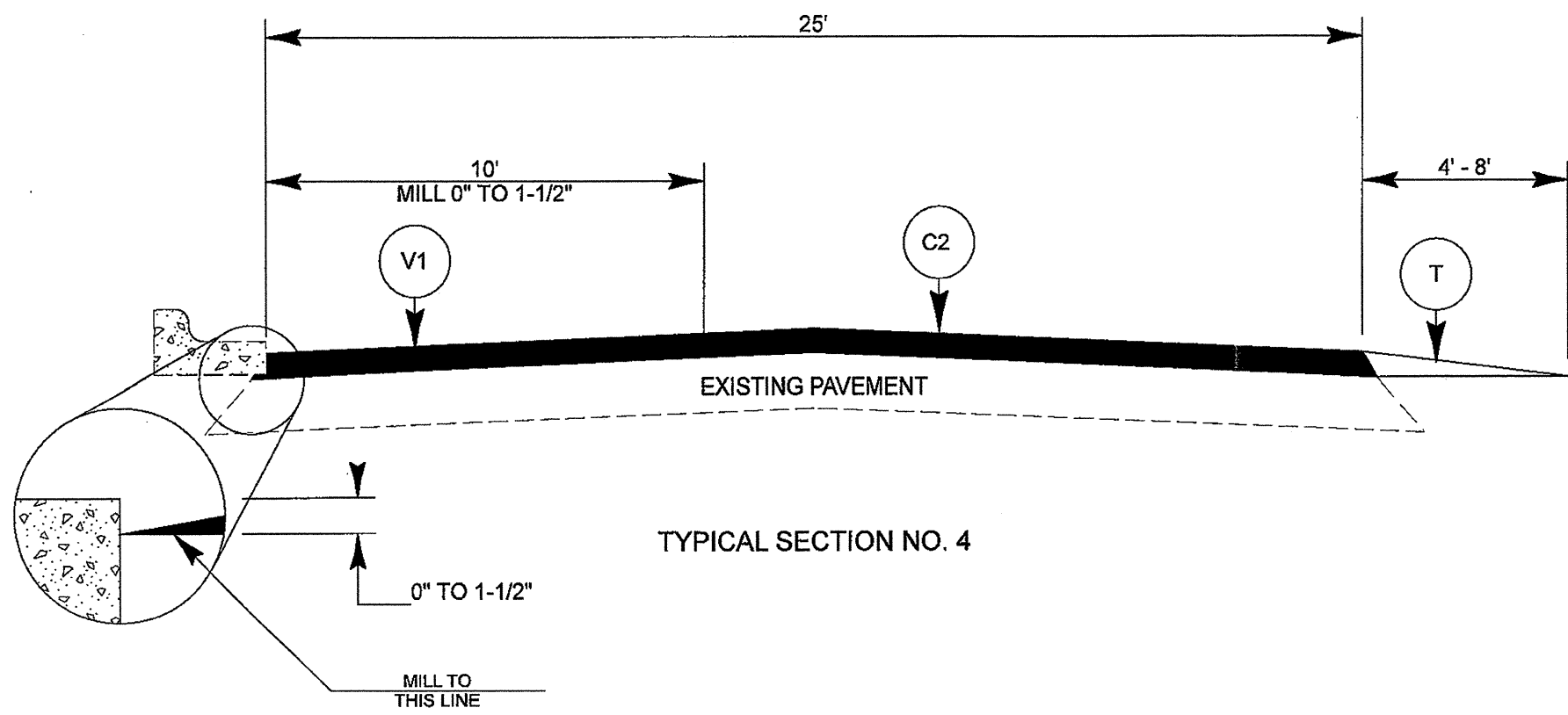
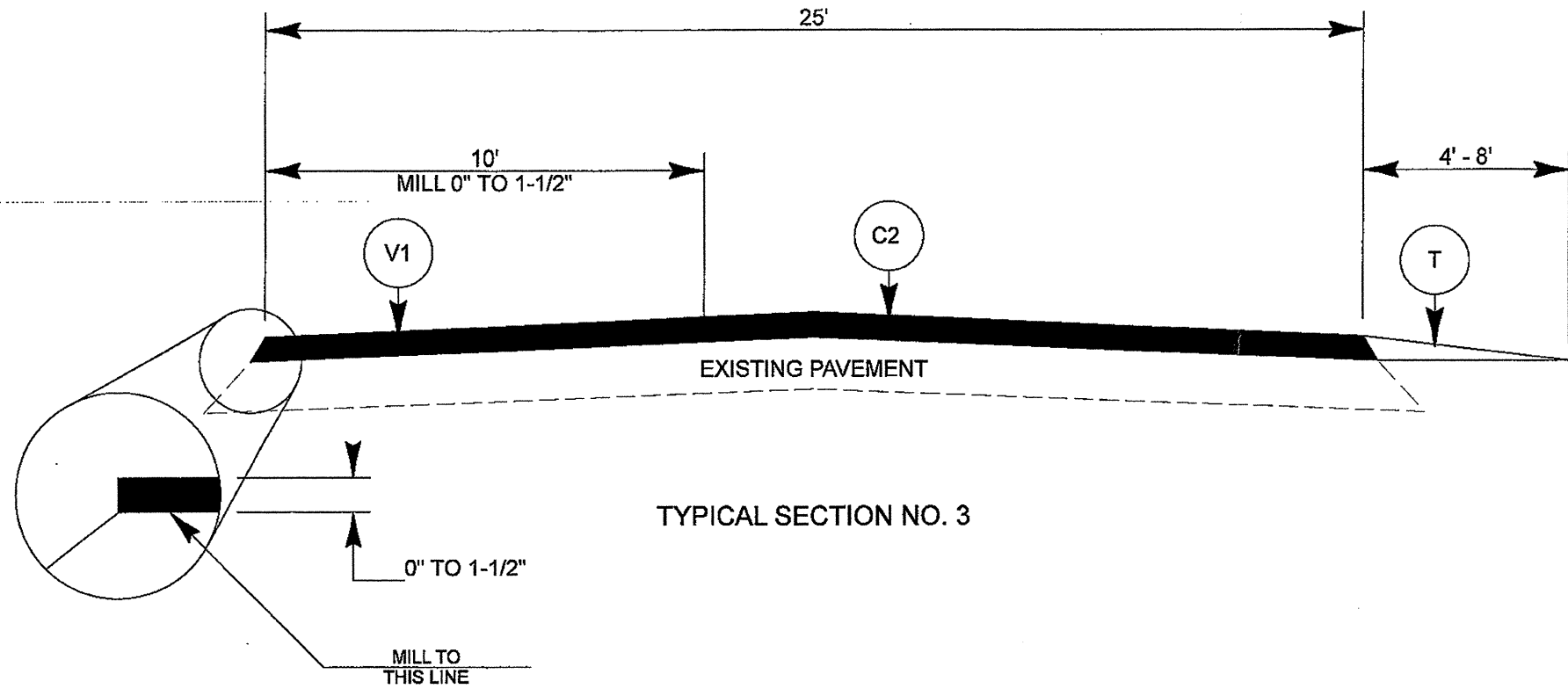
TYPICAL SECTION NO. 1



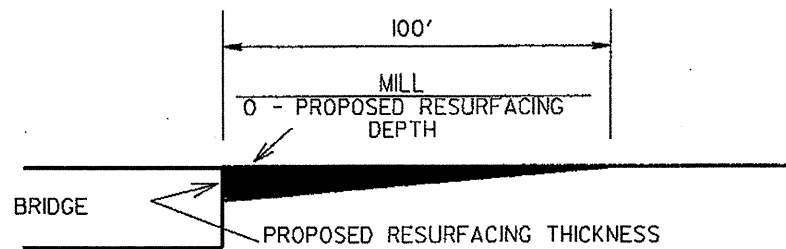
TYPICAL SECTION NO. 2

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1-1/2" ASPHALT CONC SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1-1/2" ASPHALT CONC SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
V1	MILLING ASPHALT PAVEMENT, 0" TO 1-1/2" DEPTH

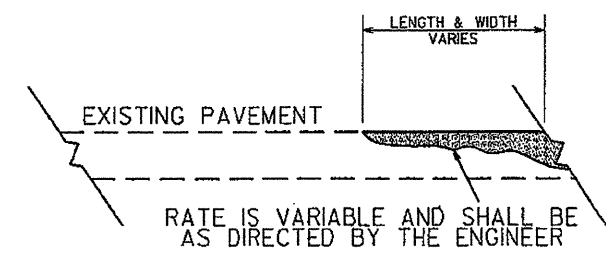
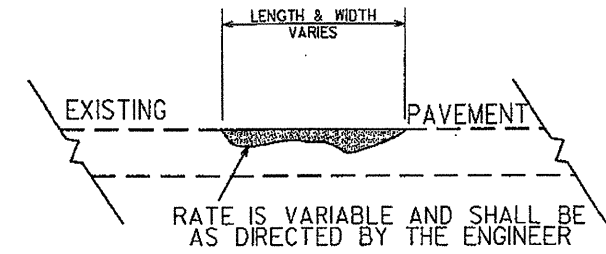
PROJECT NO.	SHEET NO.	TOTAL SHEETS
13CR.11001.12, 13CR.21001.12	4	



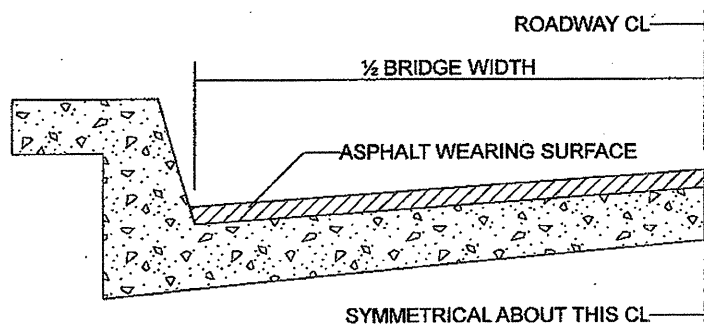
PROJECT NO.	SHEET NO.	TOTAL SHEETS
13CR.11001.12, 13CR.21001.12	5	



**INCIDENTAL MILLING DETAIL AT BRIDGE APPROACHES**  
**WHERE BRIDGES WILL NOT BE RESURFACED**  
**COST OF BRIDGE APPROACH MILLING IS INCIDENTAL TO OTHER ITEMS**



**DETAIL SHOWING  
METHOD OF WEDGING**

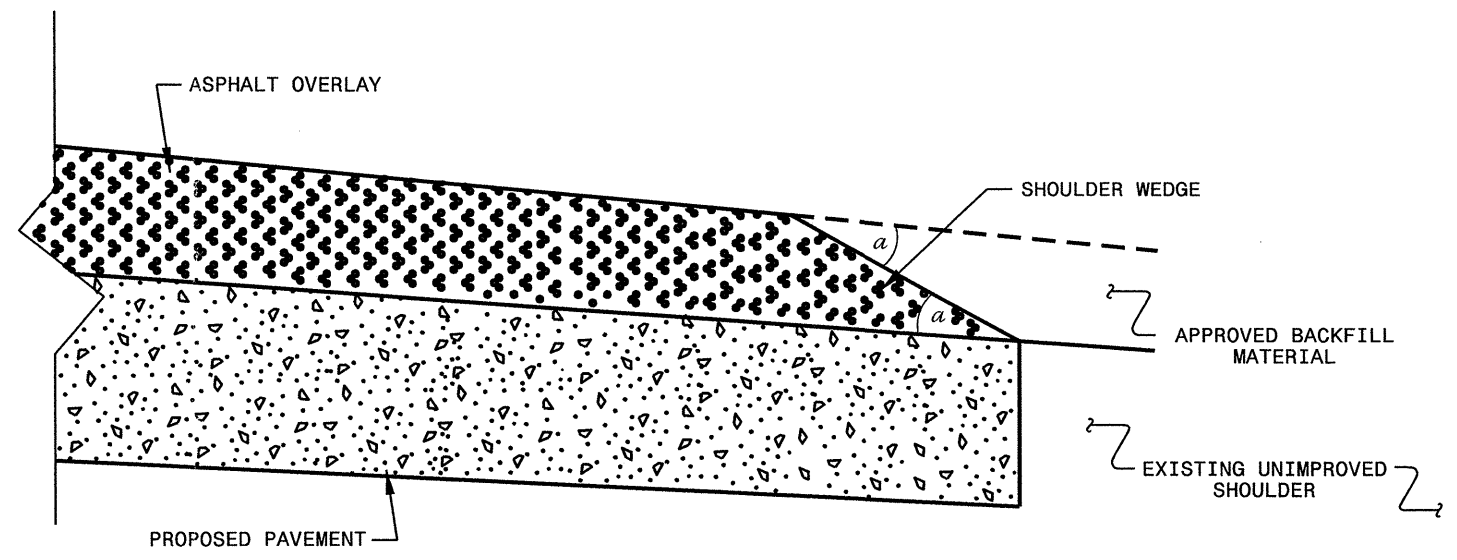


**BRIDGE HALF TYPICAL SECTION**  
FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN

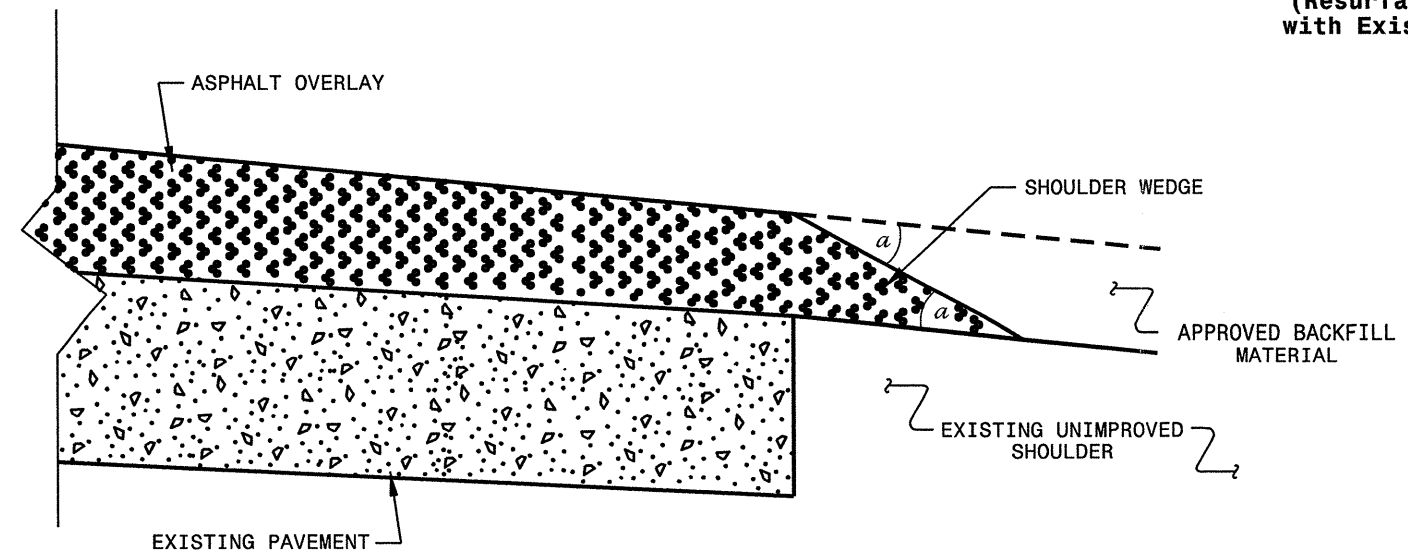
THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. THE MINIMUM THICKNESS SHOULD DEPEND ON PAVEMENT TYPE AS FOLLOWS: S4.75A 1/2", SF9.5A 1.0", S9.5X 1.5", S12.5X 2.0", ULTRATHIN HOT MIX ASPHALT-TYPE A 3/4", ULTRATHIN HOT MIX ASPHALT-TYPE B 5/8", ULTRATHIN 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.



**SHOULDER WEDGE DETAIL**  
 (Resurfacing Projects w/ Widening or  
 with Existing Paved Shoulder > 2 ft.)



**SHOULDER WEDGE DETAIL**  
 (Resurfacing Projects w/ NO Widening)

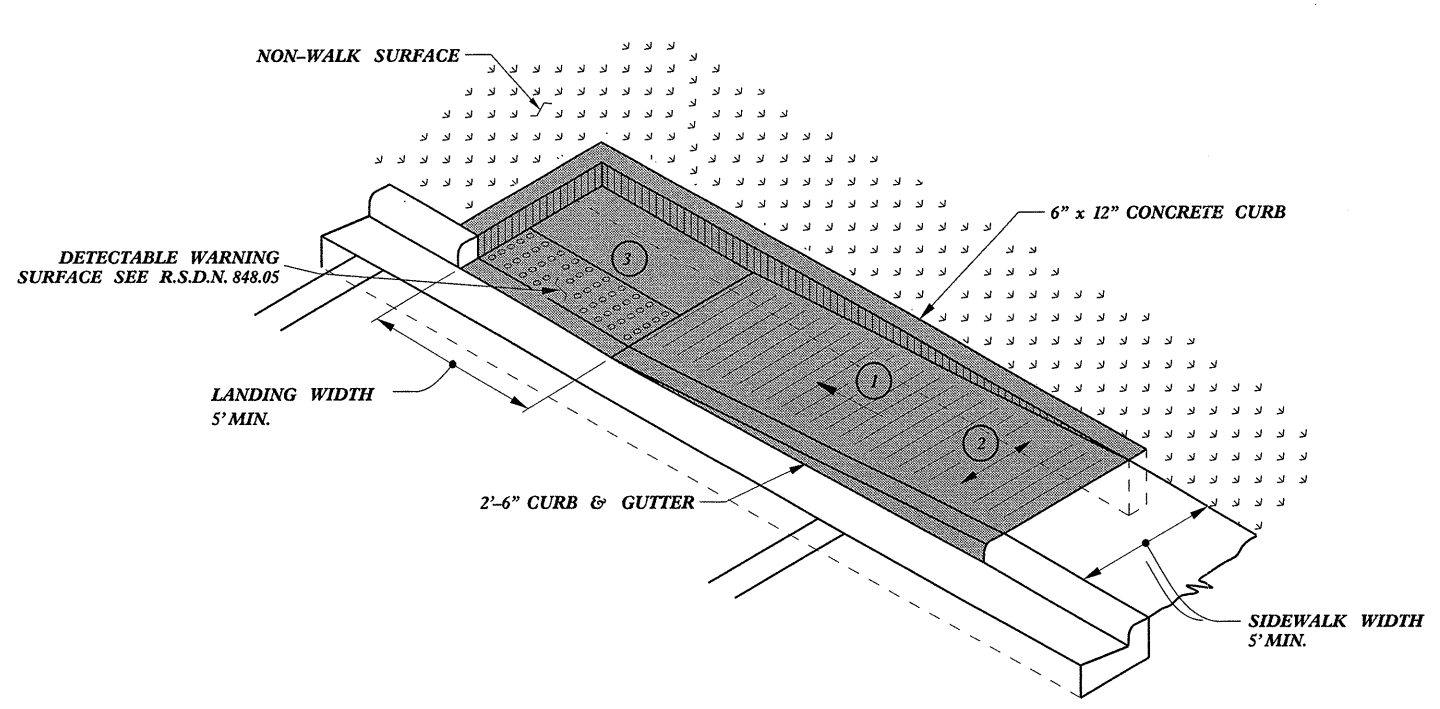
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.

a - SHOULDER WEDGE ANGLE = 30°

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950 FAX 919-250-4119	
<b>SHOULDER WEDGE DETAILS</b>	
ORIGINAL BY: T.SPELL	DATE: 7-19-11
MODIFIED BY:	DATE: 10/16/12
CHECKED BY:	DATE:
FILE SPEC.: s:\usr\details\stand\shoulderwedgedetail.dgn	

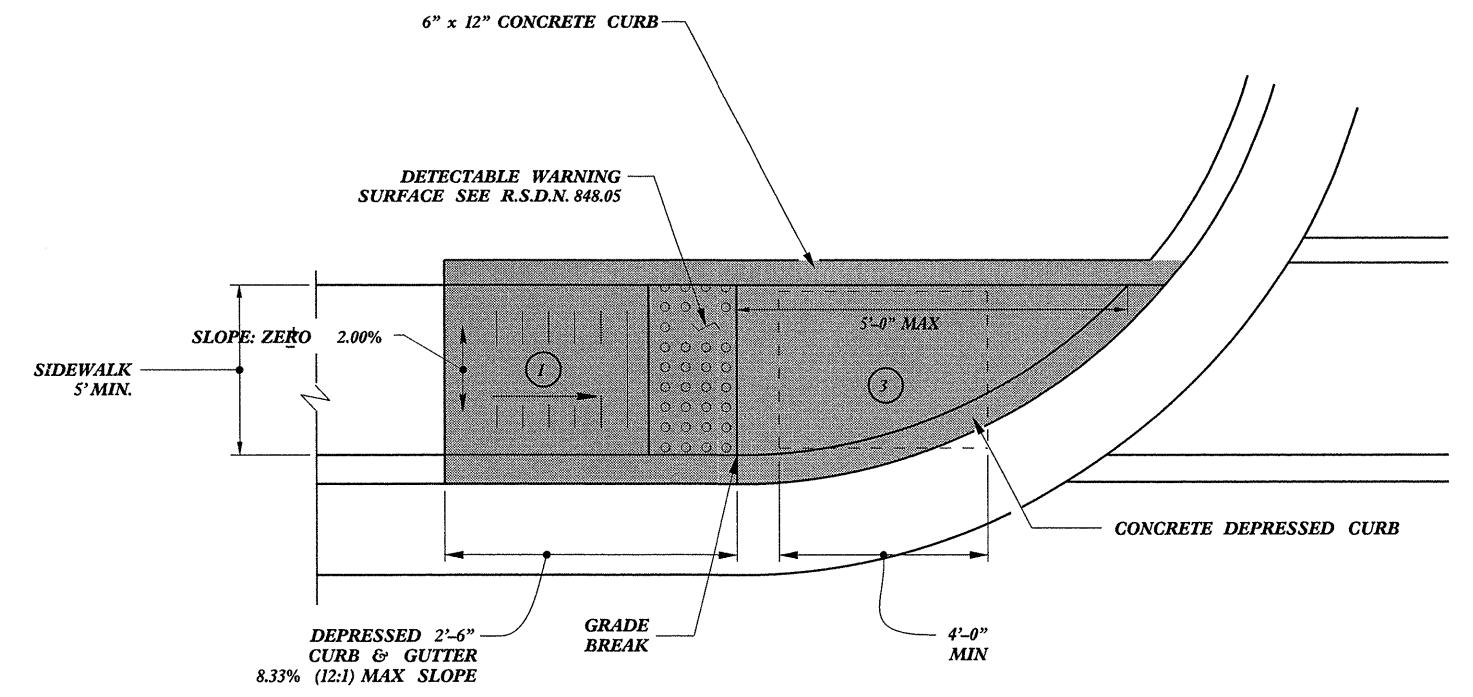
\*\*\*\*\*  
 SYSTEMS  
 SUPERVISOR  
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5/14/99  
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jhowerton



**TYPE 1A**

PAY LIMITS FOR CURB RAMP

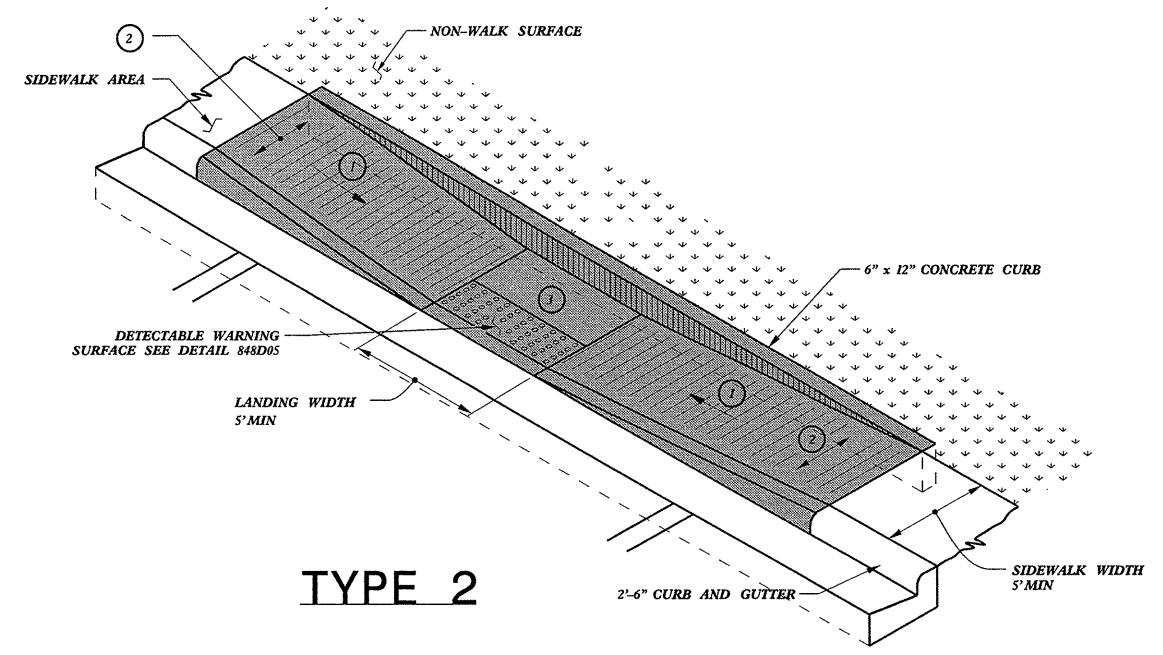


**TYPE 1**

- ① 8.33% (12:1) MAX RAMP SLOPE
- ② CROSS SLOPE: 2.00%
- ③ CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

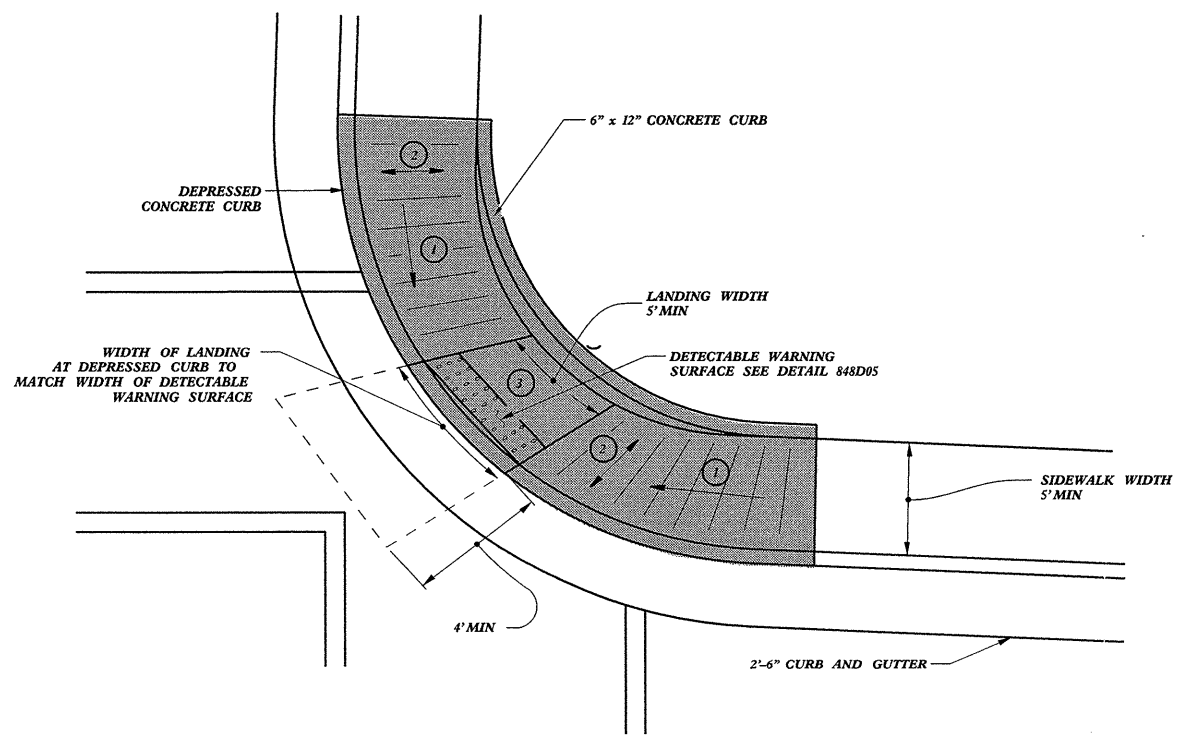
<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950 FAX 919-250-4119	
<b>CURB RAMPS</b>	
Directional Ramps	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn	



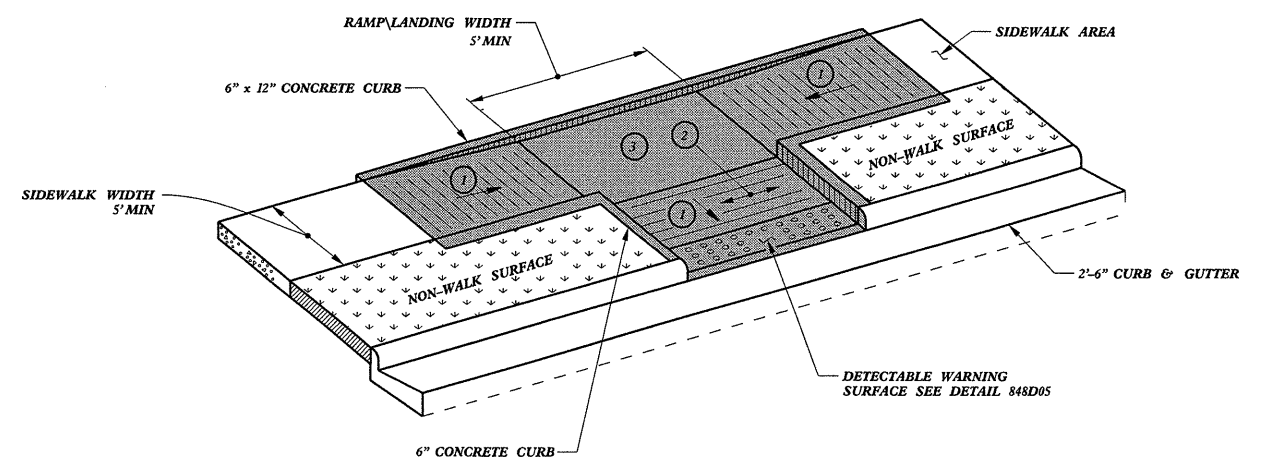
**TYPE 2**

 PAY LIMITS FOR CURB RAMP

- ① 8.33% (12:1) MAX RAMP SLOPE
- ② CROSS SLOPE: 2.00%
- ③ CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



**TYPE 2A**



**TYPE 3**

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950	FAX 919-250-4119
<b>CURB RAMPS</b>	
Parallel Ramps	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn	

14-SEP-2010 08:04 S:\Contracts\AT\CS0237501\howerton\Standard Drawings\2012 Standard Drawings\2012 Curb Ramp Special Details\Curb Ramp Details.dgn



PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.11001.12, 13CR.21001.12	9	

### SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TON	SHOULDER RECONSTRUCTION SMI	MILLING ASPHALT PAVEMENT, 0" TO 1 1/2" DEPTH SY	ASPHALT CONC SURFACE COURSE, TYPE S9.5B TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A TON	ASPHALT BINDER FOR PLANT MIX TON	PATCHING EXISTING PAVEMENT TON	CONCRETE CURB RAMP Std. 848.06 and/or details in plans EA	ADJUSTMENT OF DROP INLET EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES EA
13CR.11001.12	Yancey	1	NC 80	FROM SR 1158 TO SR 1153 (MP 5.72 - MP 12.12)	1	2	2WU	NO	NO	6.4	23	320	12.80	1,700	8,023		481	800			
<b>TOTAL FOR PROJ NO. 13CR.11001.12</b>										6.4		320	12.80	1,700	8,023		481	800			
13CR.21001.12	Yancey	2	SR 1369	FROM SR 1373 TO SR 1428 (MP 2.10 - MP 2.37)	3,4	2	2WU	NO	NO	0.27	25	7	0.27	1,590		361	24	400	7	1	4
		3	SR 1373	FROM SR 1369 TO SR 1443 (MP 0.00 - MP 0.50)	2	2	2WU	NO	NO	0.5	22	25	1.00		589	39	400				
		4	SR 1167	FROM SR 1172 FOR 1.4 MILES SOUTH OF SR 1172 (MP 2.87 - MP 1.47)	2	2	2WU	NO	NO	1.4	17	70	2.80			1,276	86	1,300			
		5	SR 1308	FROM SR 1317 TO NC 197N (MP 8.60 - MP 11.20)	2	2	2WU	NO	NO	2.6	19	130	5.20			2,647	177	800			
<b>TOTAL FOR PROJ NO. 13CR.21001.12</b>										4.77		232	9.27	1,590		4,873	326	2,900	7	1	4
<b>GRAND TOTAL</b>										11.17		552	22.07	3,290	8,023	4,873	807	3,700	7	1	4

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4457000000-E	4413000000-E	4710000000-E	4721000000-E	4725000000-E		4810000000-E		4847000000-E		4905000000-N
										TEMPORARY TRAFFIC CONTROL LS	WORK ZONE ADVANCE/GENERAL WARNING SIGNING SF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS) WHITE LF	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS) SCHOOL EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) RT ARROW EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) 24" YIELD LINE EA	PAINT PAVEMENT MARKING LINES (4") WHITE LF	PAINT PAVEMENT MARKING LINES (4") YELLOW LF	POLYUREA PAVEMENT MARKING LINES (4") WHITE (HIGHLY REFLECTIVE ELEMENTS) LF	POLYUREA PAVEMENT MARKING LINES (4") YELLOW (HIGHLY REFLECTIVE ELEMENTS) LF	SNOWPLOWABLE PAVEMENT MARKERS EA
13CR.11001.12	Yancey	1	NC 80	FROM SR 1158 TO SR 1153 (MP 5.72 - MP 12.12)	1	2	2WU	6.4	23	*	718	44	12					67,584	67,584	845
<b>TOTAL FOR PROJ NO. 13CR.11001.12</b>								6.4		0.5	718	44	12					67,584	67,584	845
										<b>135,168</b>										
13CR.21001.12	Yancey	2	SR 1369	FROM SR 1373 TO SR 1428 (MP 2.10 - MP 2.37)	3,4	2	2WU	0.27	25		30	180		1	8	5,702	5,702			
		3	SR 1373	FROM SR 1369 TO SR 1443 (MP 0.00 - MP 0.50)	2	2	2WU	0.5	22		56					10,560	10,560			
		4	SR 1167	FROM SR 1172 FOR 1.4 MILES SOUTH OF SR 1172 (MP 2.87 - MP 1.47)	2	2	2WU	1.4	17		157					29,568	29,568			
		5	SR 1308	FROM SR 1317 TO NC 197N (MP 8.60 - MP 11.20)	2	2	2WU	2.6	19		291					54,912	54,912			
<b>TOTAL FOR PROJ NO. 13CR.21001.12</b>								4.77		0.5	534	180		1	8	100,742	100,742			
										<b>201,484</b>										
<b>GRAND TOTAL</b>								11.17		1	1,252	224	12	1	8	100,742	100,742	67,584	67,584	845
										<b>135,168</b>										