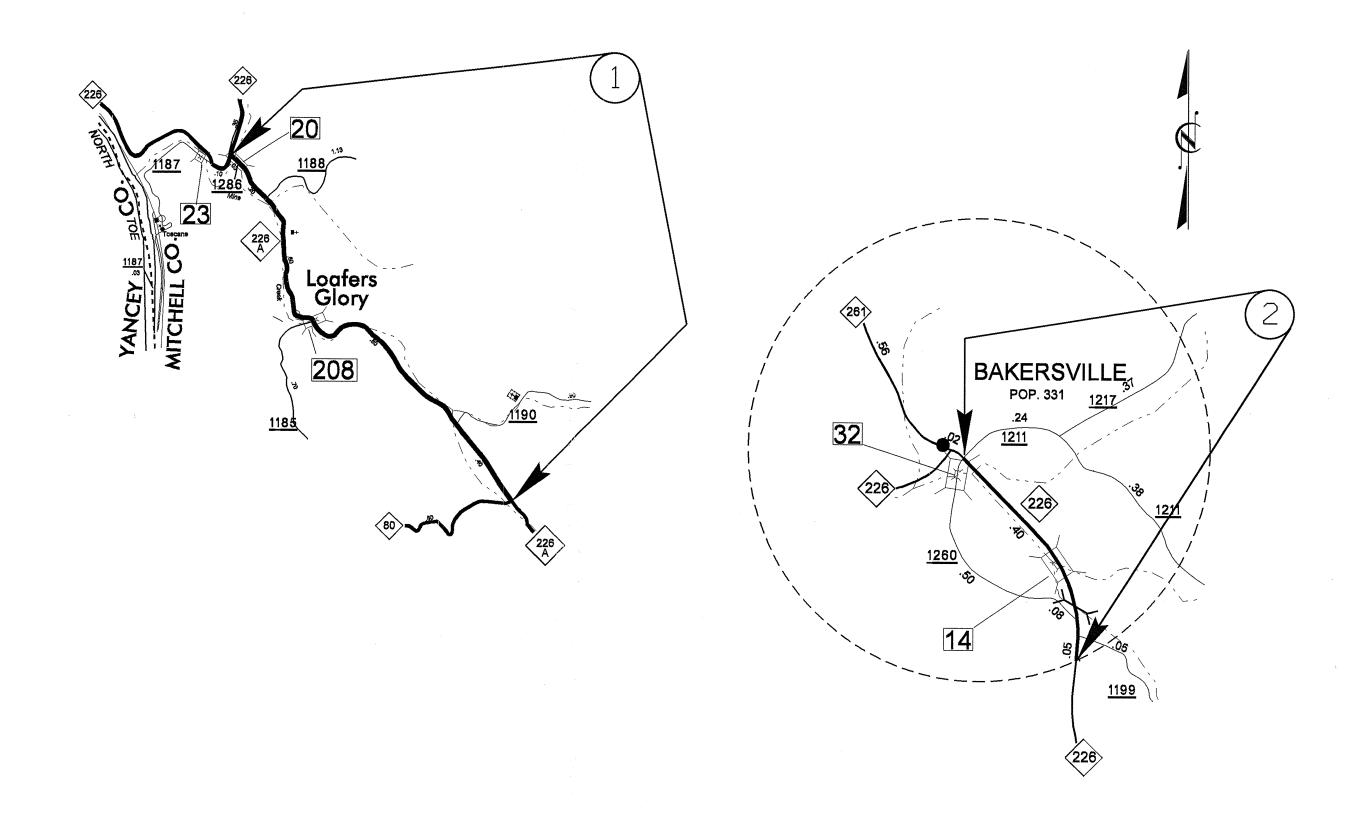
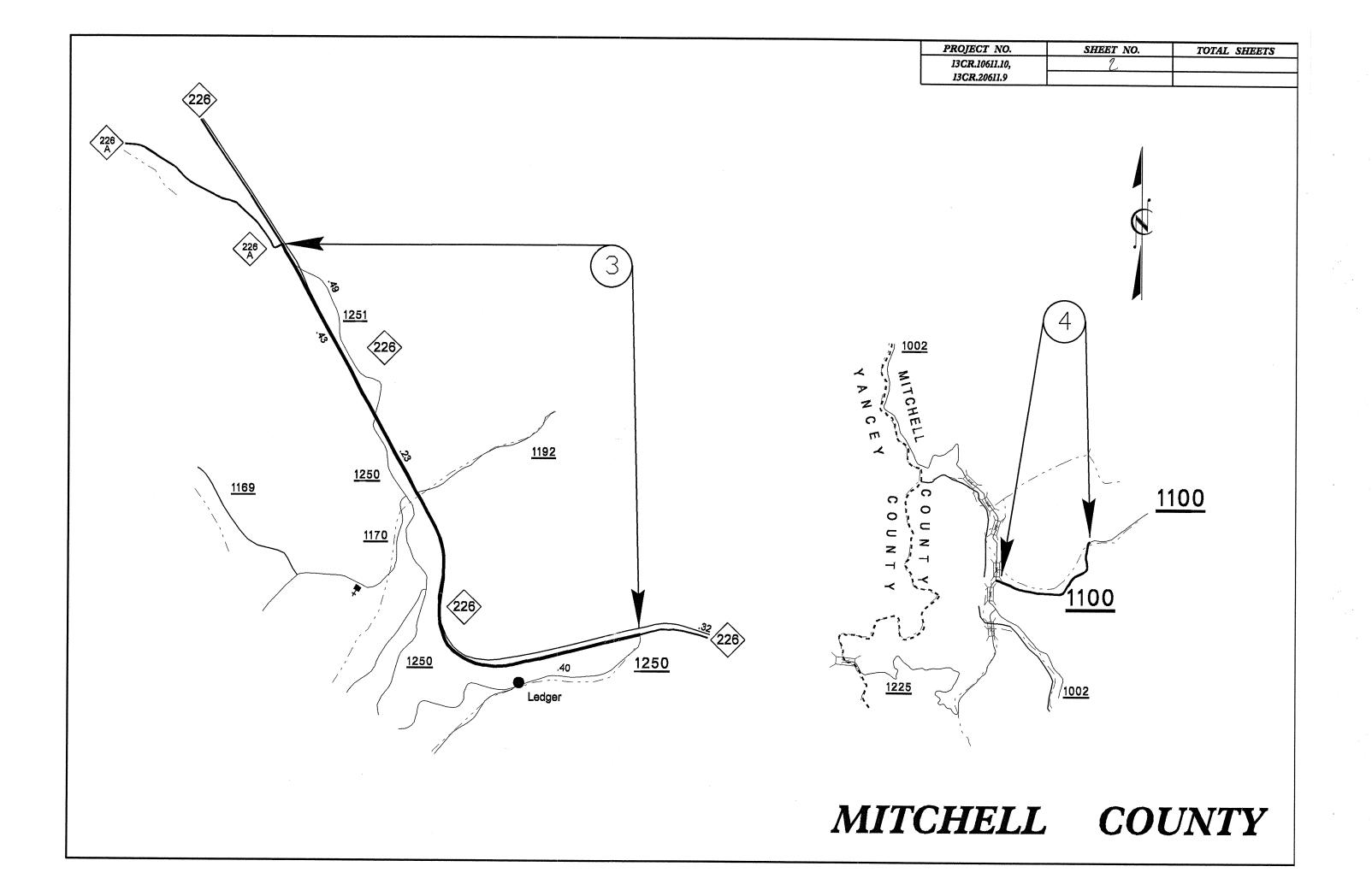
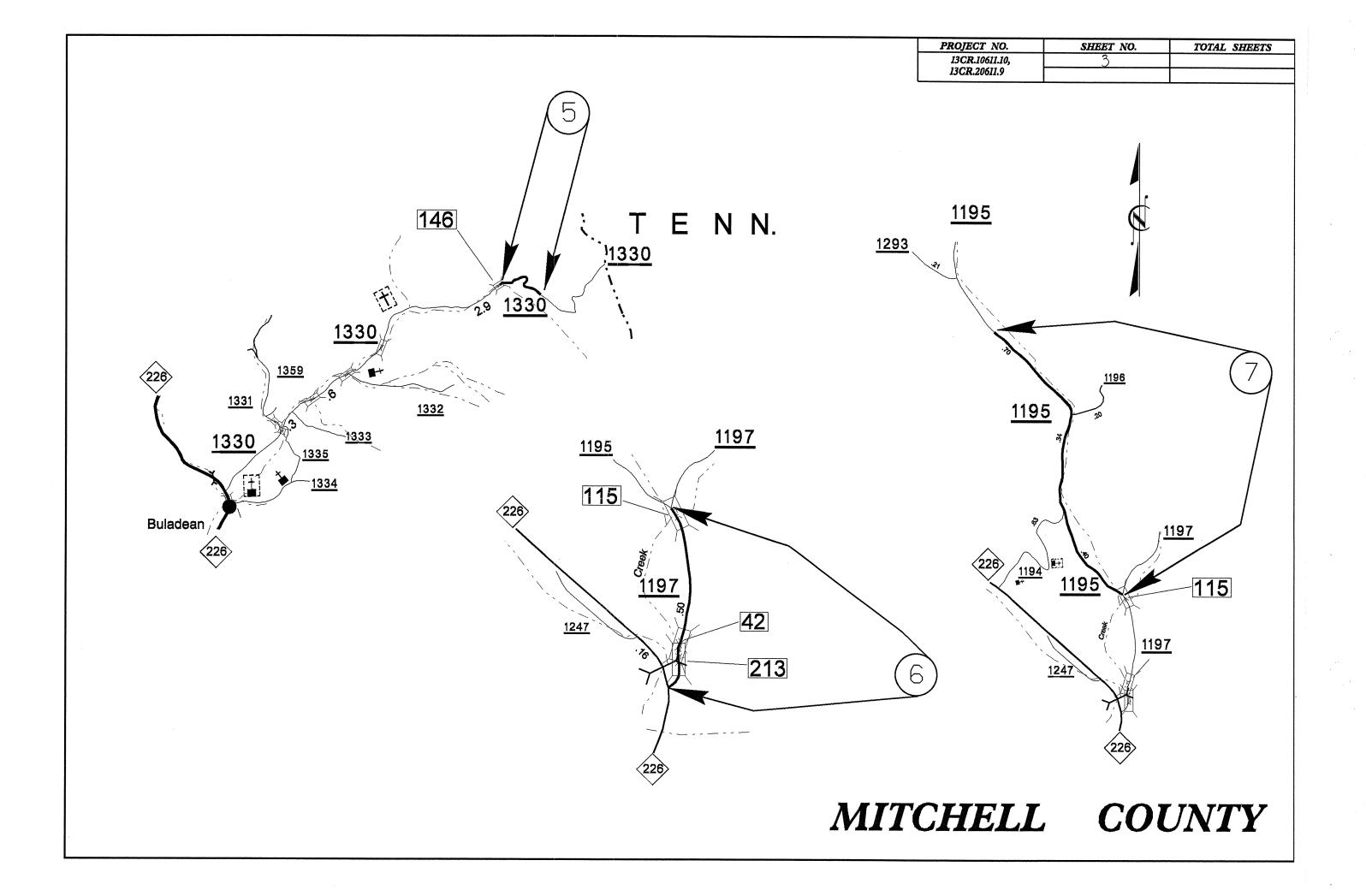
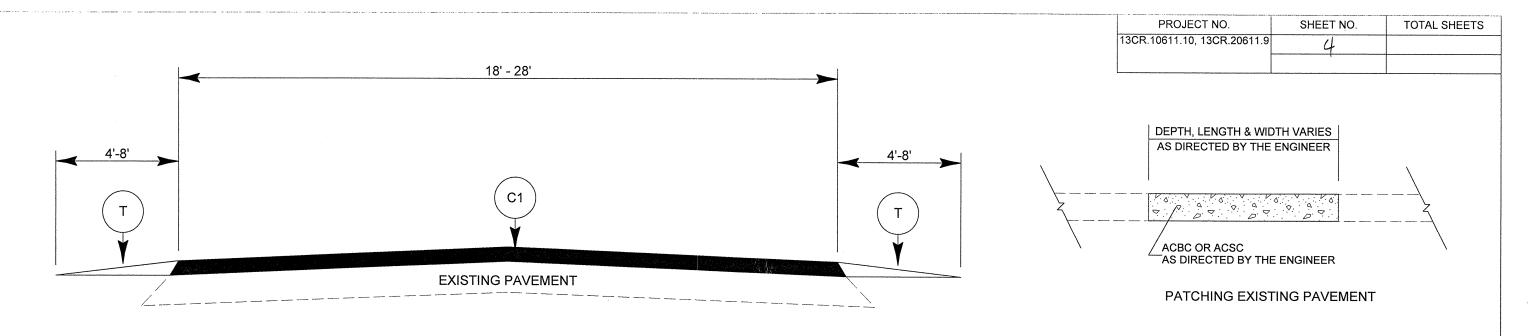
PROJECT NO.	SHEET NO.	TOTAL SHEETS
13CR.10611.10,		
<i>13CR.20611.9</i>		



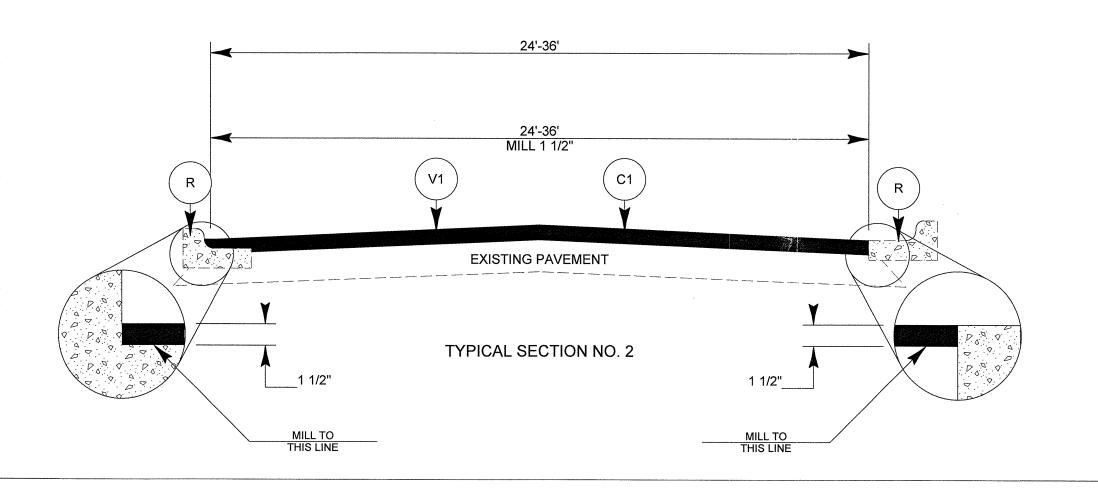
MITCHELL COUNTY



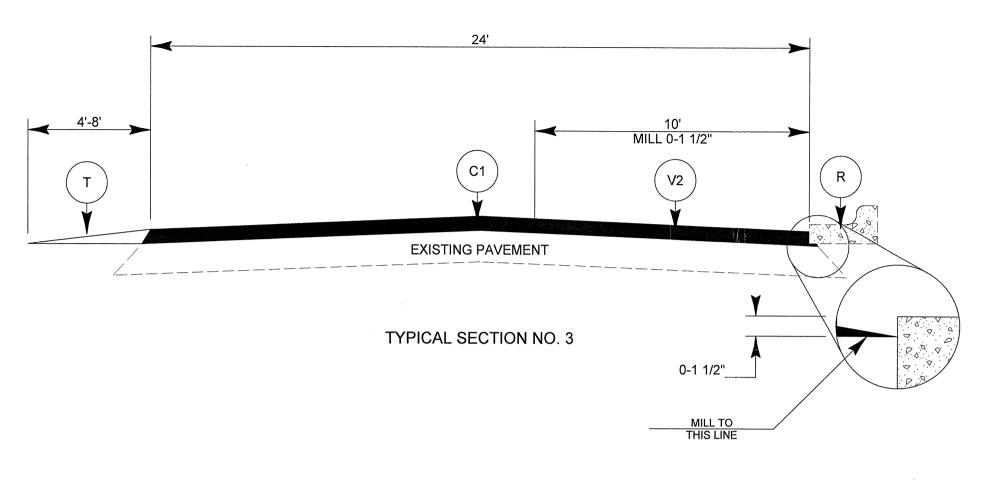


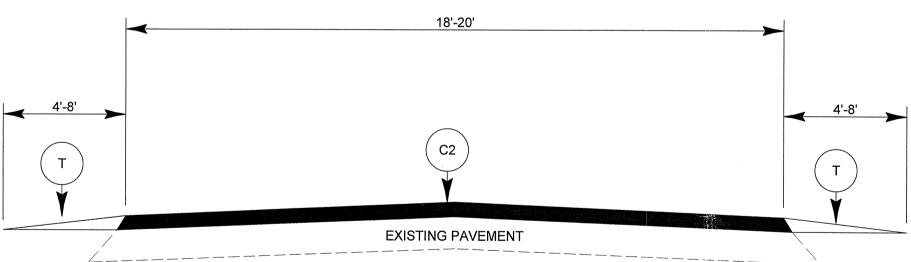


TYPICAL SECTION NO. 1



	PAVEMENT SCHEDULE
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
R	EXISTING CURB AND GUTTER OR SIDEWALK
Т	SHOULDER RECONSTRUCTION
V1	MILL 1 1/2"
V2	MILL 0-1 1/2"



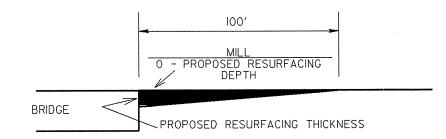


TYPICAL SECTION NO. 4

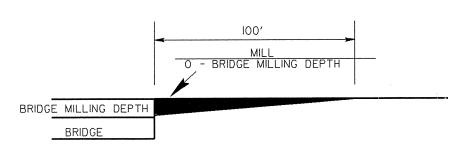
PROJECT NO.	SHEET NO.	TOTAL SHEETS
13CR.10611.10, 13CR.20611.9	5	

MITCHELL COUNTY

PROJECT NO.	SHEET NO.	TOTAL SHEETS
13CR.10611.10 & 13CR.20611.9	6	
15CK.10011.10 & 15CK.20011.9		

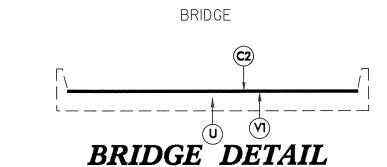


MILLING DETAIL AT BRIDGE APPROACHES
WHERE BRIDGES WILL NOT BE RESURFACED
COST OF MILLING IS INCIDENTAL TO OTHER ITEMS



MILLING DETAIL AT BRIDGE APPROACHES

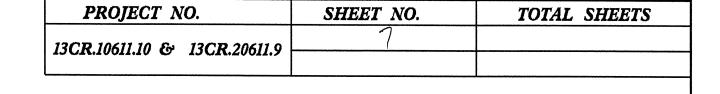
WHERE BRIDGES WILL BE MILLED THEN RESURFACED COST OF MILLING IS INCIDENTAL TO OTHER ITEMS

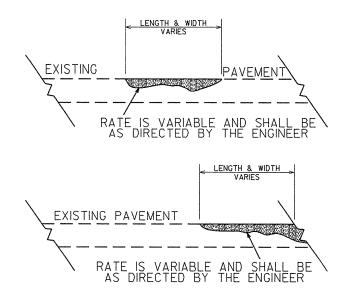


BRIDGE # 42, #115 AND #213 MAP 6
MILL 1¹/₂" OFF EXISTING PAVEMENT
SEE MAPS FOR BRIDGE LOCATION

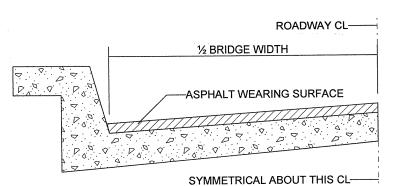
	PAVEMENT SCHEDULE								
C2	PROP. APPROX. $11/2^{\prime\prime}$ ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.								
U	EXISTING PAVEMENT								
V1	MILL 11/2"								

MITCHELL COUNTY





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: \$4.75A ½", \$F9.5A 1.0", \$9.5X 1.5", \$12.5X 2.0", ULTRATHIN HOT MIX ASPHALT-TYPE A ¾", 'ULTRATHIN HOT MIX ASPHALT-TYPE B 5/8", ULTRATHIN HOT MIX ASPHALT-TYPE C ½". THE MAXIMUM THICKNESS SHOULD DEPEND ON PAVEMENT TYPE AS FOLLOWS: \$4.75A 1.0", \$F9.5A 1.5",\$9.5X 2.0", \$12.5X 2.0", ULTRATHIN HOT MIX ASPHALT-TYPE A ¾", ULTRATHIN HOT MIX ASPHALT-TYPE C ½".

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

EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE

BRIDGES ARE TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE

PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10611.10, 13CR.20611.9	8	

SUMMARY OF QUANTITIES

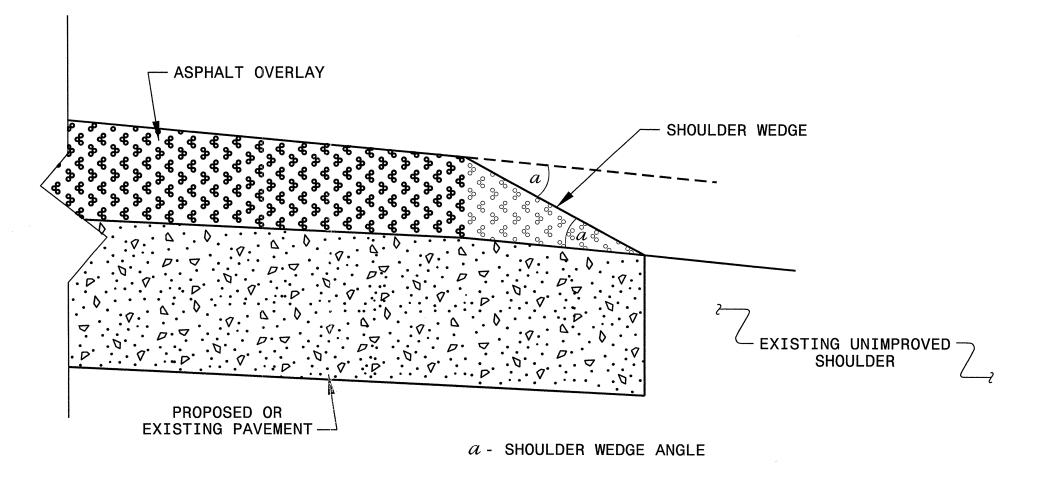
			T T			T				01011050			·	Т		
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	FINAL	LENGTH	WIDTH	INCIDENTAL	SHOULDER	1½" MILLING	0" TO 1½"	ASPHALT CONC	ASPHALT CONC	ASPHALT BINDER	PATCHING
						SURFACE			STONE BASE	RECONSTRUCTION		MILLING	SURFACE	SURFACE COURSE,	FOR PLANT MIX	EXISTING
		İ				TESTING							COURSE, TYPE	TYPE SF9.5A		PAVEMENT
						REQUIRED							S9.5B			
NO		NO			NO		MI	FT	TON	SMI	SY	SY	TON	TON	TON	TON
				FROM NC 80 MP 1.66 TO NC 226 MP												
13CR.10611.10	Mitchell	1	NC 226A	3.72	1	NO	2.06	18	103.00	4.12			2,024		121	90
				FROM SCL BAKERSVILLE MP 14.37 TO												
	Mitchell	2	NC 226	SR 1211 MP 14.87	1,2,3	NO	0.5	24-36	5.00	0.25	4,800	1,600	979		59	125
				FROM SR 1250 MP 10.35 TO NC 226A												
	Mitchell	3	NC 226	MP 12.02	1	NO	1.58	28	79.00	3.16			2,409		145	320
TOTAL FOR F	ROJ NO. 1	3CR.10	0611.10				4.14		187.00	7.53	4,800	1,600	5,412		325	535
				FROM PAVEMENT CHANGE MP 2.46												
13CR.20611.9	Mitchell	4	SR 1100	TO SR 1002 MP 3.36	4	NO	0.9	20	45.00	1.80			·	964	65	240
				FROM PAVEMENT CHANGE MP 2.83												
	Mitchell	5	SR 1330	TO EOP MP 3.48	4	NO	0.65	18	32.50	1.30				627	42	100
				FROM NC 226 MP 0 TO SR 1195 MP												i
	Mitchell	6	SR 1197	0.48	4	NO	0.48	18	24.00	0.96	330			463	31	100
				FROM SR 1197 MP 0 TO 0.20 MILES												
	Mitchell	7	SR 1195	SOUTH OF SR 1293 MP 1.28	4	NO	1.28	18	64.00	2.56				1,235	83	110
TOTAL FOR	PROJ NO.	13CR.2	0611.9				3.31		165.50	6.62	330			3,289	221	550
G	RAND TOT	AL	-				7.45		352.50	14.15	5,130	1,600	5,412	3,289	546	1,085

THERMOPLASTIC AND PAINT QUANTITIES

							4685000000-E	4686000000-E	4697000000-E	4710000000-E	4721000000-E	481000	0000-F	4820000000-E	4905000000-N
PROJECT	COUNTY	МАР	ROUTE	DESCRIPTION	LENGTH	WIDTH	4" X 90 M WHITE		8" X 120 M	24" X 120 M WHITE	THERMOPLASTIC	PAINT PAVEMENT	,	PAINT PAVEMENT	SNOWPLOWABLE
							THERMO	YELLOW THERMO	WHITE THERMO	THERMO	PAVEMENT	MARKING LINES	MARKING LINES	MARKING LINES	PAVEMENT
											MARKING	(4") WHITE	(4") YELLOW	(8") WHITE	MARKERS
						İ	İ				CHARACTER (120				
											MILS, SCHOOL)				
NO							LF	LF	LF	LF	EA	LF	LF	LF	FA
NO		NO		FROM NC 80 MP 1.66 TO NC 226 MP		<u> </u>	LF LF	LF	LF	LF	EA	LF	Lr	LF	EA
13CR.10611.10	Mitchell	1	NC 226A	3.72	2.06	18	21,754	21,754							272
13CK.10011.10	WITCHEI		NC ZZOA	FROM SCL BAKERSVILLE MP 14.37 TO		10	21,734	2.1,754							212
	Mitchell	2	NC 226	SR 1211 MP 14.87	0.5	36	5,280	5,280	216	72	12				40
	WITCHEI		140 220	FROM SR 1250 MP 10.35 TO NC 226A	0.5	- 30	3,200	3,200	210						
	Mitchell	3	NC 226	MP 12.02	1.58	28	16,685	16,685							209
		L			4.14		43,719	43,719	216	72	12				521
TOTAL FOR F	PROJ NO. 1	3CR.10	0611.10										<u> </u>		
	·····	·				T		T			T	T	1		***
				FROM PAVEMENT CHANGE MP 2.46	i										
13CR.20611.9	Mitchell	4	SR 1100		0.9	20						19,008	19,008	80	
		_	an 1000	FROM PAVEMENT CHANGE MP 2.83	1	10						40.720	40.700		
	Mitchell	5	SR 1330	TO EOP MP 3.48 FROM NC 226 MP 0 TO SR 1195 MP	0.65	18						13,728	13,728		
	0 0 ta a la a 11	_	CD 1107	i	0.48	18						10 130	10,138		
	Mitchell	6	SR 1197	FROM SR 1197 MP 0 TO 0.20 MILES	0.48	10	 					10,138	10,138		
	Mitchell	7	SR 1195	SOUTH OF SR 1293 MP 1.28	1.28	18						27,034	27,034		
	Mitchell	<u> </u>	30 1133	300111 OF 3K 1293 WIF 1.28	3.31	10	 	 	 			69,908	69,908	80	
TOTAL FOR PROJ NO. 13CR.20611.9		0611.9		3.31							139		80		
					l	1	.1			<u> </u>	<u> </u>	1 233	,	L	
	DAND TO	· A I			7.45		43,719	43,719	216	72	12	69,908	69,908	80	521
GRAND TOTAL											139	139,816			

PROJECT REFERENCE NO. SHEET

13 CR. 10611.10, etc.



SHOULDER WEDGE DETAIL

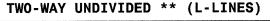
CONTRACT STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-41

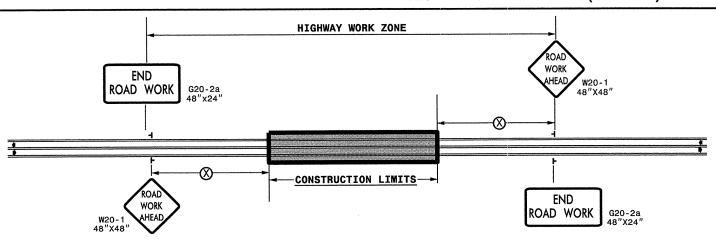
SHOULDER WEDGE DETAIL

ORIGINAL BY	T.SPELL	DATE:	7-19-11
MODIFIED BY		DATE: _	
CHECKED BY:		DATE: _	
FILE SPEC.:	s:usr/details/s	tand/shoulderwedged	etail.dgn

S:\Contracts\Contracts\Special Details\jhowerton\shou \$\$\$\$USERNAME\$\$\$\$

13CR.10611.10 TCP-1 13CR.20611.9





	RECOMMENDED Minimum Sign Spacing
POSTED SPEED LIMIT (M.P.H.)	8
≤ 50	500'
≥ 55	1000′

NORTH P Ы DEPT

HIGHWAY 9F DIVISION

Z

RALEIGH,

GNS

 \Box

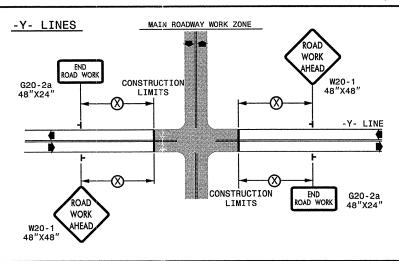
DRAWING Y UNDIVIE WARNING

DETAIL TWO-WA\ K ZONE

TWO X Z

FOR

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



GENERAL NOTES

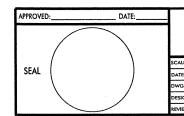
- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- ** 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

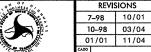
├ STATIONARY SIGN

■ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1



	DETAI UNDIVID	L DRAWING FOR TWO DED AND URBAN FR	
	ADVANCED	WORK ZONE WARNIN	NG SIGNS
SCALE:	NONE	O GINESO T	REVISIONS





- (1) THE FOLLOWING OPTIONS MAY BE USED FOR ADVANCE WARNING SIGNS:
 - A. TRUCK MOUNTED SIGNS
 - B. TRUCK MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
 C. GROUND MOUNTED ADVANCE WARNING SIGNS
 - (MUST CIRCLE TO PICK UP SIGNS)
 - D. GROUND MOUNTED CHANGEABLE MESSAGE SIGN (CMS) (MUST USE CIRCLE TO PICK UP SIGNS)
- (2) ALL ADVANCE WARNING SIGNS MUST BE 48" X 48" WITH FLUORESCENT ORANGE TYPE VII, VIII OR IX SHEETING. IF SPACE LIMITATIONS ON SHOULDER PROHIBIT A 48" X 48" SIGN, A SMALLER SIGN CAN BE USED WITH APPROVAL FROM ENGINEER.
- (3) SIGNS ON VEHICLES SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND AND SHOULD NOT BLOCK THE MOTORIST'S SIGHT OF THE FLASHING ARROW PANEL AND/OR LIGHTBAR.
- (4) GROUND MOUNTED ADVANCED WARNING SIGNS SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND TO ROTTOM OF SIGN.
- (5) SIGN SPACING SHOULD BE ADJUSTED FOR HORIZONTAL AND VERTICAL CURVES, ETC. TO IMPROVE SIGHT DISTANCES.
- (6) ADDITIONAL VEHICLES SHOULD BE USED IN WORK CARAVAN TO FACILITATE DRYING OF PAVEMENT MARKING MATERIAL (TMIA'S ARE OPTIONAL ON THESE ADDITIONAL VEHICLES). HOWEVER, THE FIRST VEHICLE MOTORISTS SEE IN THE TRAVEL LANE SHALL HAVE A TMIA.

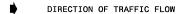
(1)(2)(3)(4)(8)

W26-1CSP

- (7) ADJUST DISTANCE AS NEEDED TO PREVENT MOTORISTS FROM ENTERING SPACE BETWEEN THE APPLICATION AND PROTECTION VEHICLE. DISTANCE CAN BE LENGTHENED TO ACCOMODATE SIGHT DISTANCE NEEDS.
- (8) ROUND UP MILEAGE TO NEXT WHOLE MILE. WORK ZONE SHOULD NOT EXCEED FIVE (5) MILES IN LENGTH.
- (9) RADIO COMMUNICATION BETWEEN VEHICLES IS REQUIRED.
- (10) USE OF A LIGHT BAR ON ALL VEHICLES IS PREFERRED, BUT A ROTATING BEACON MAY BE USED INSTEAD.
- (11) IF WORK IS PERFORMED AT NIGHT, THE WORK AREA MUST BE ILLUMINATED WITH MACHINE AND/OR TOWER LIGHTS AS APPROVED BY THE ENGINEER.
- (12) ALL TRAFFIC CONTROL DEVICES WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS FOR PAVEMENT MARKING AND MARKERS.
- (13) INFORMATIONAL SIGNS SHOULD BE ACTIVITY SPECIFIC, i.e. "PAINT CREW IN ROAD". SIGNS MAY BE RECTANGULAR OR DIAMOND SHAPE. SIGN SIZE SHOULD BE BASED ON THE MOTORIST ABILITY TO RECOGNIZE SIGN WHEN TRAVELING FIVE (5) MILES ABOVE POSTED SPEED LIMIT.
- (14) IF A LEAD VEHICLE IS ADDED TO OPERATION, IT SHOULD HAVE THE SAME ADVANCE WARNING SIGNS AS THE APPLICATION VEHICLE SHOWN BELOW.

LEGEND

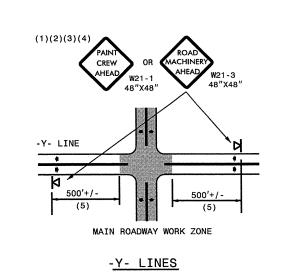
O PORTABLE SIGN. SIGNS MUST BE NCHRP-350 AND NCDOT APPROVED.

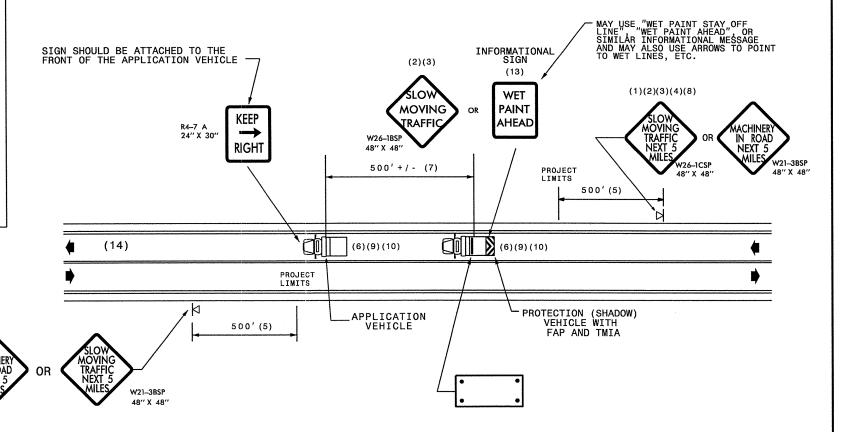


APPLICATION VEHICLE WITH LIGHT BAR

PROTECTION VEHICLE WITH TRUCK
MOUNTED IMPACT ATTENUATOR (TMIA)
AND LIGHT BAR (SEE ROADWAY
STANDARD NO. 1165.01). TMIA MUST
BE NCHRP-350 TEST LEVEL 3 (60+MPH)

FLASHING ARROW PANEL,
TYPE "B" (60"X30" MIN.),
"CAUTION MODE"





MOVING OPERATION CARAVAN

(OPERATIONS TRAVELING 3 MPH OR FASTER)
PLACING PAVEMENT MARKING OR MARKERS
ON TWO-LANE TWO-WAY ROADWAYS

DRAWING NUMBER 6
IMPLEMENTATION DATE: 07/01/97
REVISED: 11/03/04