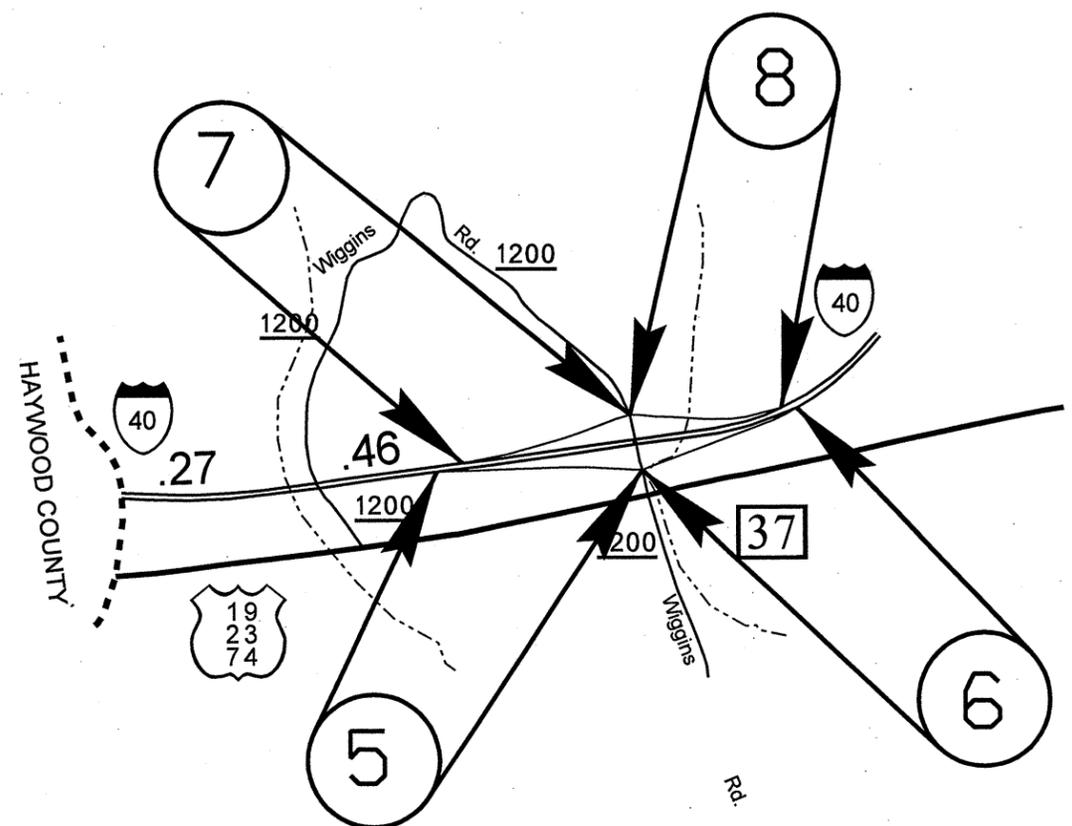
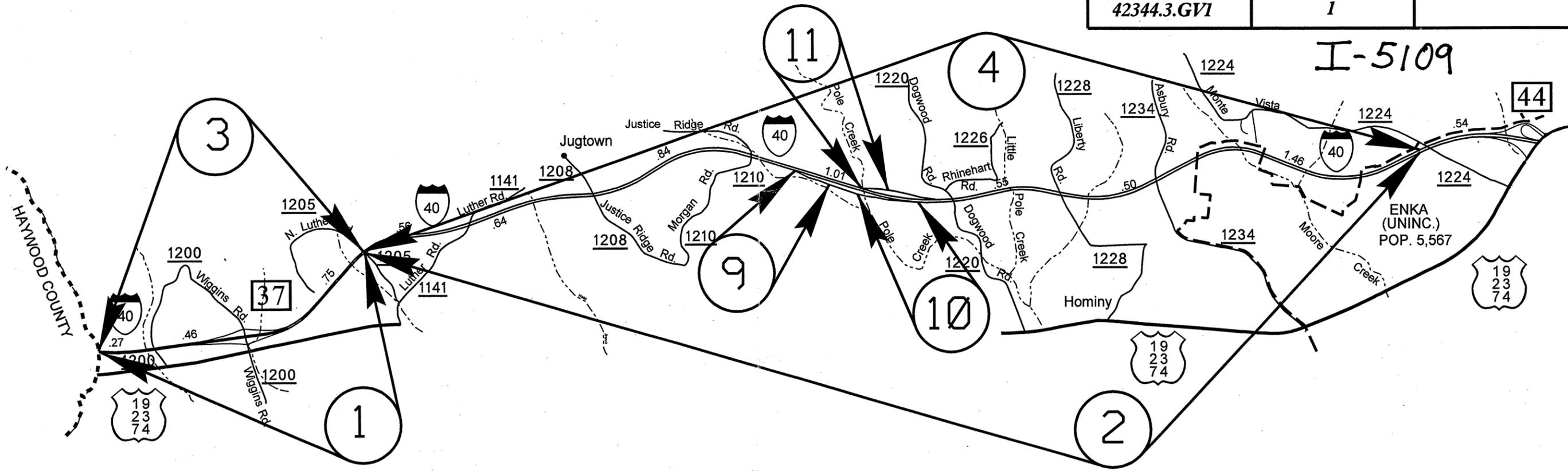


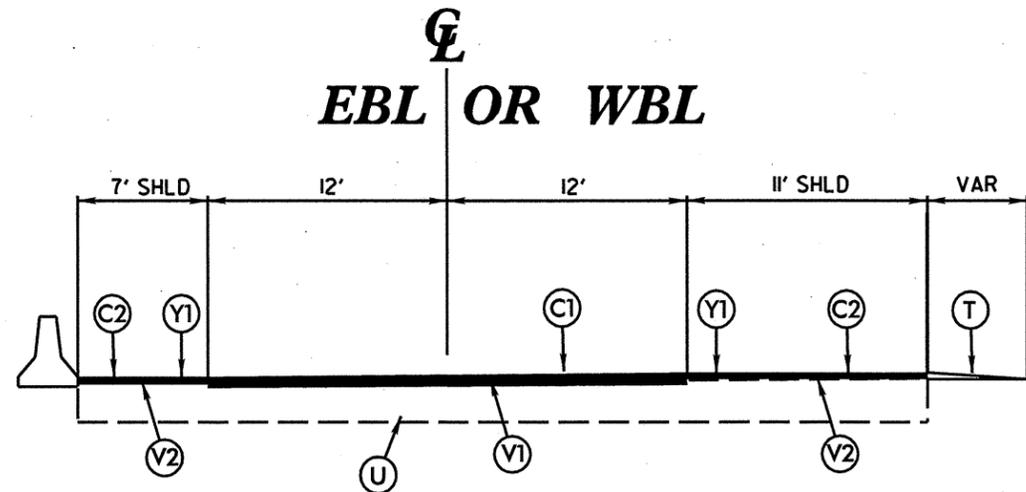
PROJECT NO.	SHEET NO.	TOTAL SHEETS
42344.3.GVI	1	

I-5109

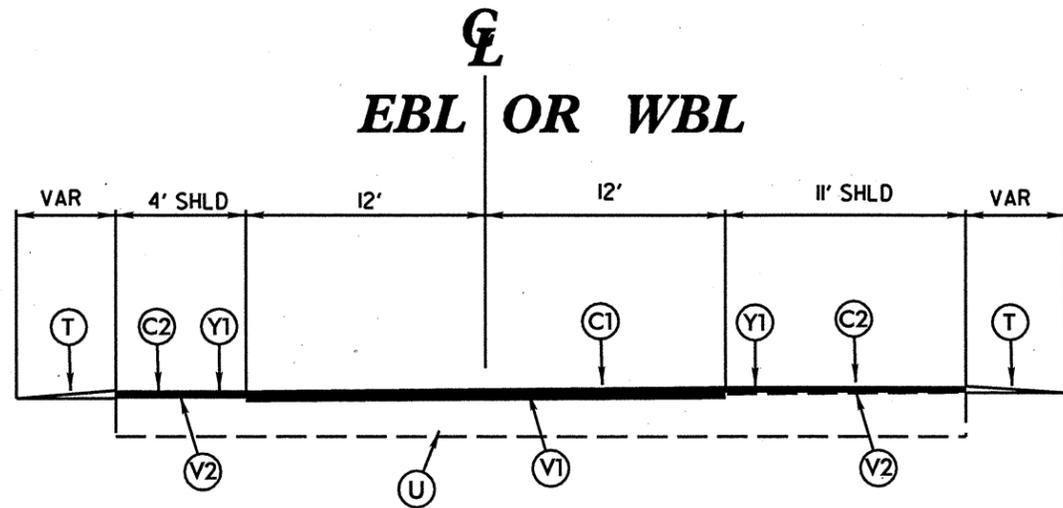


BUNCOMBE COUNTY

PROJECT NO.	SHEET NO.	TOTAL SHEETS
42344.3.GVI	2	



TYPICAL SECTION NO. 1

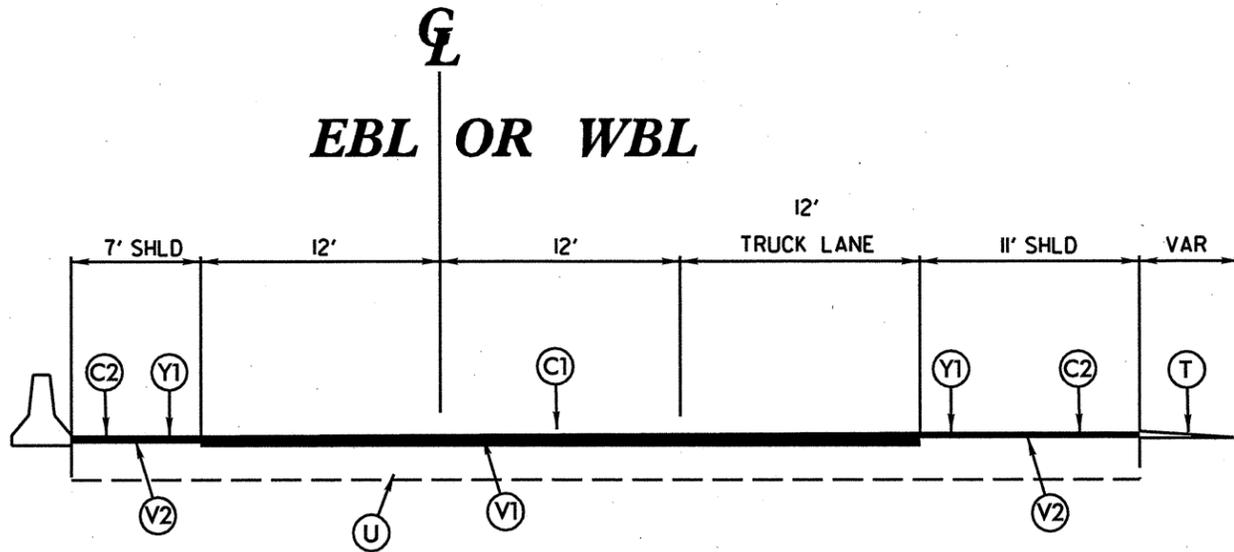


TYPICAL SECTION NO. 2

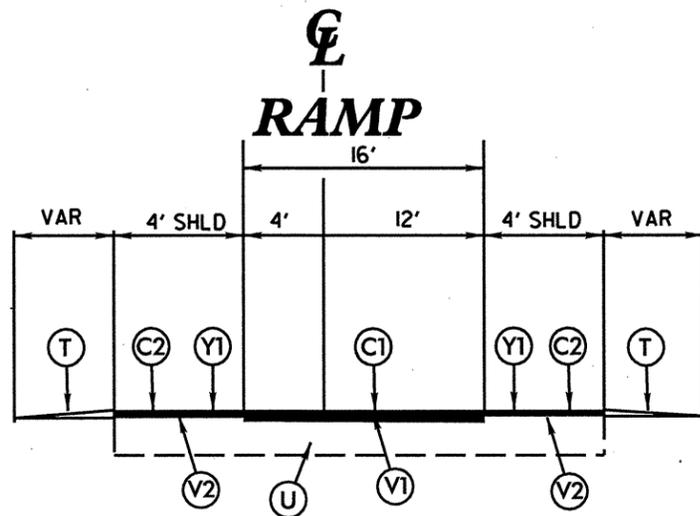
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
C2	PROP. APPROX. 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION USING EARTH MATERIAL, LOCATIONS AS DIRECTED BY ENGINEER
U	EXISTING PAVEMENT
V1	MILL 3" OVER ENTIRE ROADWAY WIDTH
V2	MILL 1 1/2" OVER ENTIRE SHOULDER WIDTH
Y1	MILLED RUMBLE STRIPS IN ACCORDANCE WITH STD. DWG. 665.01

BUNCOMBE COUNTY

PROJECT NO.	SHEET NO.	TOTAL SHEETS
42344.3.GV1	3	



TYPICAL SECTION NO. 3

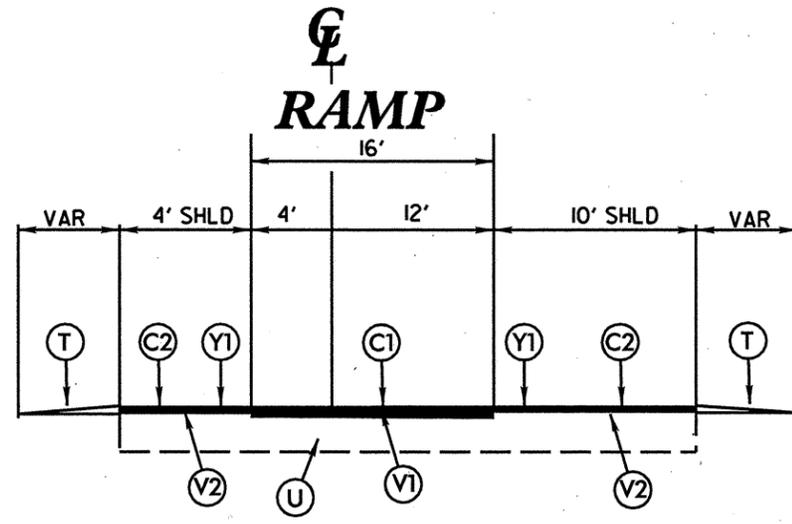


TYPICAL SECTION NO. 4

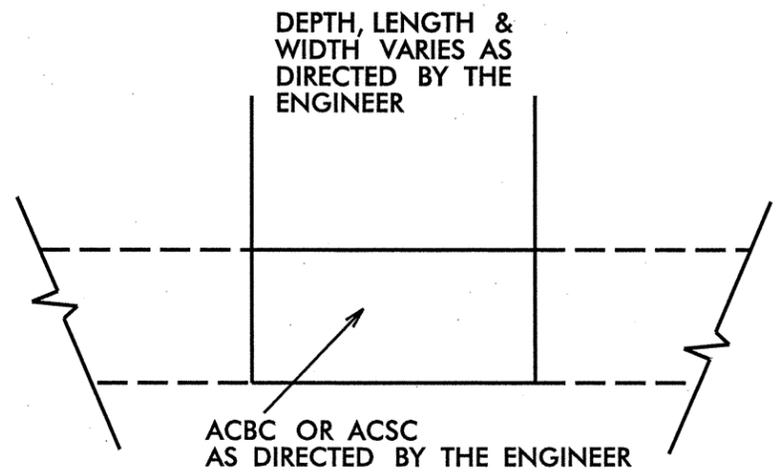
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
C2	PROP. APPROX. 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION USING EARTH MATERIAL, LOCATIONS AS DIRECTED BY ENGINEER
U	EXISTING PAVEMENT
V1	MILL 3" OVER ENTIRE ROADWAY WIDTH
V2	MILL 1 1/2" OVER ENTIRE SHOULDER WIDTH
Y1	MILLED RUMBLE STRIPS IN ACCORDANCE WITH STD. DWG. 665.01

BUNCOMBE COUNTY

PROJECT NO.	SHEET NO.	TOTAL SHEETS
42344.3.GV1	4	



TYPICAL SECTION NO. 5



PATCHING DETAIL

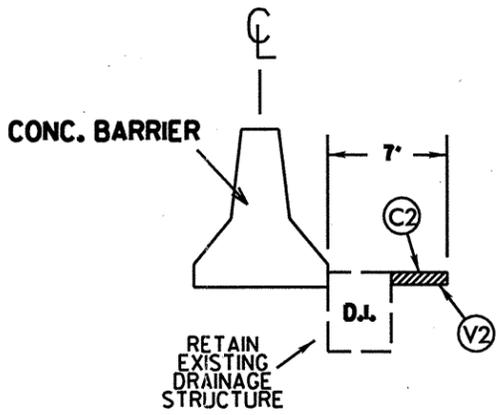
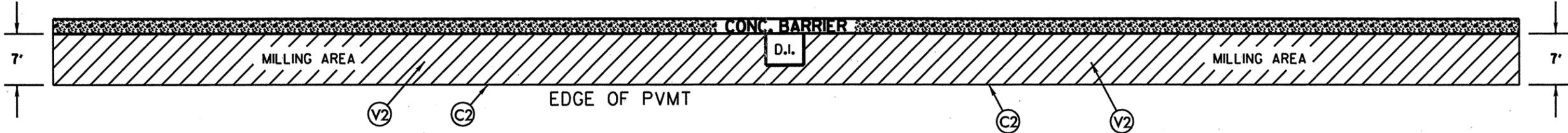
PATCH EXISTING PAVEMENT

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
C2	PROP. APPROX. 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION USING EARTH MATERIAL, LOCATIONS AS DIRECTED BY ENGINEER
U	EXISTING PAVEMENT
V1	MILL 3" OVER ENTIRE ROADWAY WIDTH
V2	MILL 1 1/2" OVER ENTIRE SHOULDER WIDTH
Y1	MILLED RUMBLE STRIPS IN ACCORDANCE WITH STD. DWG. 665.01

BUNCOMBE COUNTY

PROJECT NO.	SHEET NO.	TOTAL SHEETS
42344.3.GV1	5	

PAVEMENT SCHEDULE	
C2	PROP. APPROX. 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V2	MILL 1 1/2" OVER ENTIRE SHOULDER WIDTH



**MILLING DETAILS FOR
EXISTING DRAINAGE STRUCTURES.
FOR TYPICAL NUMBER 1 AND 3**

BUNCOMBE COUNTY

PROJECT NO.		SHEET NO.	TOTAL NO.
I-5109	42344.3.GV1	6	

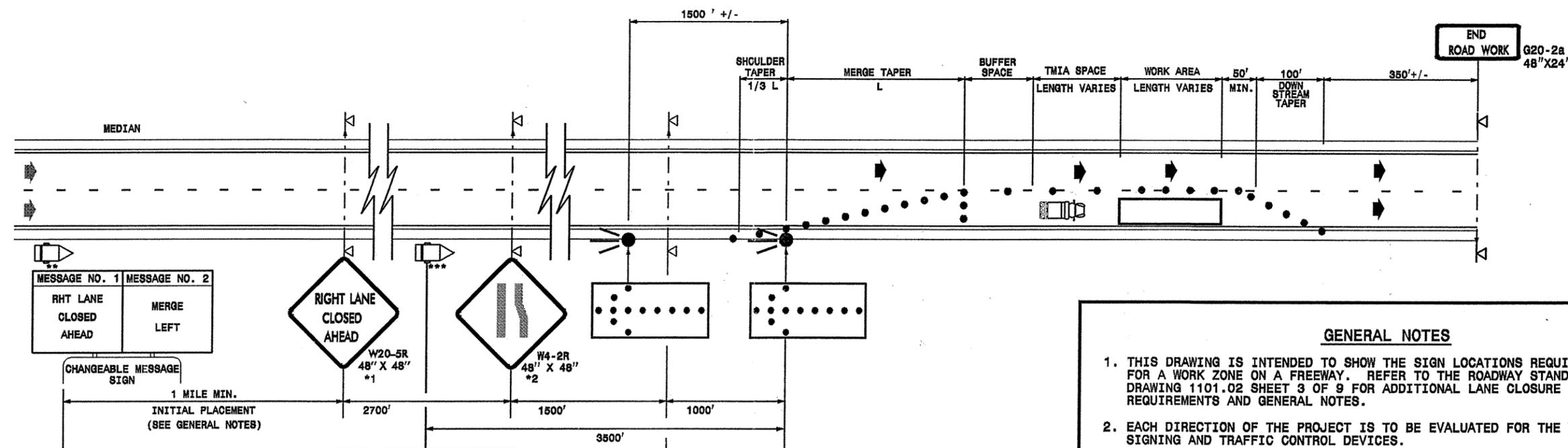
SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH MI	WIDTH FT	SHOULDER RECONSTRUCTION SMI	3" MILLING SY	1 1/2" MILLING SY	SURFACE COURSE, S9.5C TONS	SURFACE COURSE, S9.5D TON	PG 70-22 PLANT MIX TONS	PG 76-22 PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	MILLED RUMBLE STRIPS LF	SEED & MULCHING AC	EVAZOTE EXPANSION JOINT REPLACEMENT LF	PLACEMENT OF EPOXY SF	CONCRETE DECK REPAIR USING ELASTOMERIC SY	PORTABLE LIGHTING LS
I-5109	Buncombe	1	I-40 EBL	HAYWOOD CO TO 1.50 MILES EAST	1	1.5	24	0.9	21120	15840	1340	3,944	80	237	500	15,840	0.55	301	12,800	142	*
		2	I-40 EBL	1.50 MILES EAST OF HAYWOOD CO TO PROJECT I-4401 MP 43	2	5.05	24	3.03	71104	44440	3764	13,277	226	797	1,700	53,328	1.85	320	12,400	138	*
		3	I-40 WBL	HAYWOOD CO TO 1.50 MILES EAST	1 & 3	1.5	24	0.9	24640	15840	1340	4,594	80	276	500	15,840	0.55	301	12,800	142	*
		4	I-40 WBL	1.50 MILES EAST OF HAYWOOD CO TO PROJECT I-4401 MP 43	2	5.05	24	3.03	71104	44440	3764	13,277	226	797	1,700	53,328	1.85	320	12,960	144	*
		5	I-40 EBL OFF RAMP EXIT 37	I-40 EBL OFF RAMP EXIT 37	4	0.39	16	0.23	3661	1830	156	687	9	41	20	4,118	0.14				
		6	I-40 EBL ON RAMP EXIT 37	I-40 EBL ON RAMP EXIT 37	4	0.36	16	0.22	3379	1690	144	634	9	38	20	3,802	0.13				
		7	I-40 WBL ON RAMP EXIT 37	I-40 WBL ON RAMP EXIT 37	5	0.23	16	0.14	2159	1889	160	405	10	24	20	2,429	0.08				
		8	I-40 WBL OFF RAMP EXIT 37	I-40 WBL OFF RAMP EXIT 37	5	0.24	16	0.14	2253	1971	167	423	10	25	20	2,534	0.09				
		9	I-40 EBL OFF RAMP WEIGH STATION	I-40 EBL OFF RAMP WEIGH STATION	4	0.13	16	0.08	1220	610	52	229	3	14	10	1,300	0.05				
		10	I-40 EBL ON RAMP WEIGH STATION	I-40 EBL ON RAMP WEIGH STATION	4	0.41	16	0.25	3849	1924	164	722	10	43	10	4,000	0.15				
		11	I-40 WBL OFF RAMP WEIGH STATION	I-40 WBL OFF RAMP WEIGH STATION	4	0.17	16	0.1	1596	798	68	299	4	18	10	1,700	0.06				
TOTAL FOR PROJ NO. 42344.3.GV1						15.03		9.02	206,085	131,272	11,119	38,491	667	2,310	4,510	158,219	5.50	1,242	50,960	566	1
GRAND TOTAL						15.03		9.02	206,085	131,272	11,119	38,491	667	2,310	4,510	158,219	5.50	1,242	50,960	566	1

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4405000000-E	4415000000-E	4420000000-N	4430000000-E	4480000000-N	4815000000-E		4847100000-E		4847120000-E	4721000000-N	4725000000-N
					PORTABLE WORK ZONE SIGN	FLASHING ARROW PANELS, TYPE C	CHANGEABLE MESSAGE SIGN	DRUMS	TRUCK MTD. IMPACT ATTENUATOR (60 MPH)	6" YELLOW PAINT	6" WHITE PAINT	6" YELLOW POLYUREA	6" WHITE POLYUREA	12" WHITE POLYUREA	THERMOPLASTIC MSG - NO TRUCKS THIS LANE	THERMOPLASTIC STR ARROW
					SF	EA	EA	EA	EA	LF	LF	HIGHLY REFLECTIVE LF	REFLECTIVE LF	ELEMENTS LF	EA	EA
I-5109	Buncombe	1	I-40 EBL	HAYWOOD CO TO 1.50 MILES EAST	96	2	2	50	2	7,920	9,900	7,920	9,900			
		2	I-40 EBL	1.50 MILES EAST OF HAYWOOD CO TO PROJECT I-4401 MP 43	*	*	*	*	*	26,664	33,330	26,664	33,330			
		3	I-40 WBL	HAYWOOD CO TO 1.50 MILES EAST						7,920	10,560	7,920	10,560	16		
		4	I-40 WBL	1.50 MILES EAST OF HAYWOOD CO TO PROJECT I-4401 MP 43						26,664	33,330	26,664	33,330			
		5	I-40 EBL OFF RAMP EXIT 37	I-40 EBL OFF RAMP EXIT 37								2,059	2,099	1,000		
		6	I-40 EBL ON RAMP EXIT 37	I-40 EBL ON RAMP EXIT 37								1,900	2,020	600		3
		7	I-40 WBL ON RAMP EXIT 37	I-40 WBL ON RAMP EXIT 37								1,214	1,214	640		
		8	I-40 WBL OFF RAMP EXIT 37	I-40 WBL OFF RAMP EXIT 37								1,267	1,297	800		
		9	I-40 EBL OFF RAMP WEIGH STATION	I-40 EBL OFF RAMP WEIGH STATION								686	786	800		
		10	I-40 EBL ON RAMP WEIGH STATION	I-40 EBL ON RAMP WEIGH STATION								2,165	2,465	640		3
		11	I-40 WBL OFF RAMP WEIGH STATION	I-40 WBL OFF RAMP WEIGH STATION								898	968	720		
TOTAL FOR PROJ NO. 42344.3.GV1					96	2	2	50	2	69,168	87,120	79,357	97,969	5,200	16	6
GRAND TOTAL					96	2	2	50	2	69,168	87,120	79,357	97,969	5,200	16	6

* re-use same items for opposite direction



MESSAGE NO. 1	MESSAGE NO. 2
RHT LANE CLOSED AHEAD	MERGE LEFT

CHANGEABLE MESSAGE SIGN

1 MILE MIN.
INITIAL PLACEMENT
(SEE GENERAL NOTES)

**OPTIONAL CHANGEABLE MESSAGE	
MESSAGE NO. 1	MESSAGE NO. 2
UNEVEN LANES	NEXT XX MILES

**OPTIONAL
CHANGEABLE MESSAGE

TO BE USED WHEN UNEVEN LANES EXIST
BETWEEN OPEN LANES OF TRAFFIC. "XX"
WILL BE DETERMINED BY THE ENGINEER.

MESSAGE NO. 1	MESSAGE NO. 2
ROAD PAVING AHEAD	WORKERS IN ROADWAY

CHANGEABLE MESSAGE SIGN

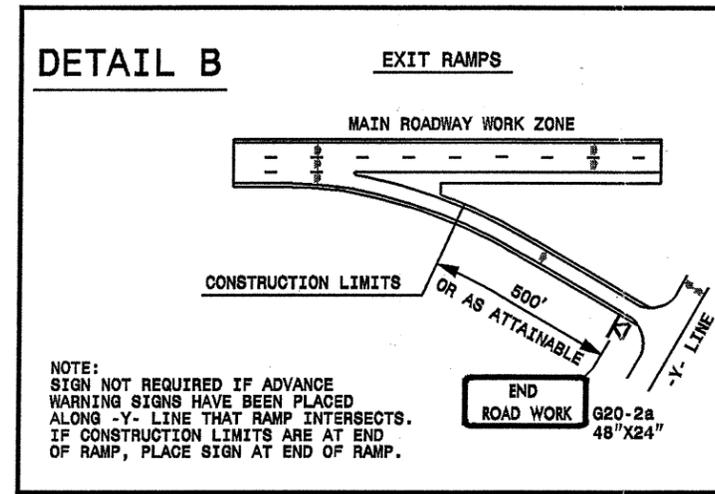
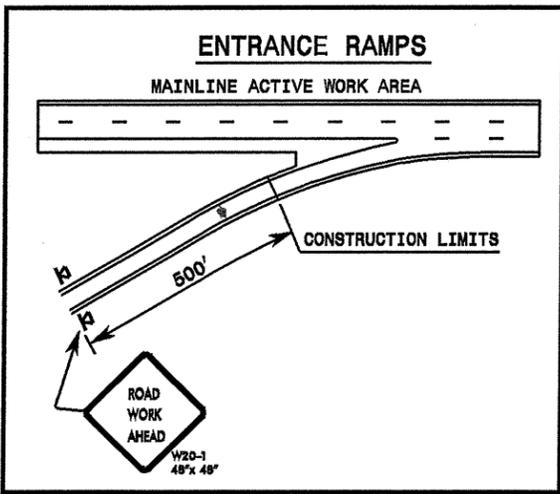
***OPTIONAL CHANGEABLE MESSAGE	
MESSAGE NO. 1	MESSAGE NO. 2
UNEVEN LANES	REDUCE LANE CHANGES

***OPTIONAL
CHANGEABLE MESSAGE

TO BE USED WHEN UNEVEN LANES EXIST
BETWEEN OPEN LANES OF TRAFFIC.

GENERAL NOTES

1. THIS DRAWING IS INTENDED TO SHOW THE SIGN LOCATIONS REQUIRED FOR A WORK ZONE ON A FREEWAY. REFER TO THE ROADWAY STANDARD DRAWING 1101.02 SHEET 3 OF 9 FOR ADDITIONAL LANE CLOSURE REQUIREMENTS AND GENERAL NOTES.
2. EACH DIRECTION OF THE PROJECT IS TO BE EVALUATED FOR THE WORK ZONE SIGNING AND TRAFFIC CONTROL DEVICES.
3. IN ADDITION, FOR ACTIVE WORK AREAS THAT EXCEED 1 MILE IN LENGTH, AN EVALUATION IS TO BE MADE TO DETERMINE IF ADDITIONAL SIGNS ARE NEEDED TO SUPPLEMENT THE INITIAL ONES.
4. THE CHANGEABLE MESSAGES ARE IN USE WHEN A LANE CLOSURE IS IN EFFECT. OPTIONAL MESSAGES MAY BE USED WHEN UNEVEN LANES EXIST BETWEEN OPEN LANES OF TRAFFIC. THE CHANGEABLE MESSAGE SIGNS ARE TO BE REMOVED WHEN NEITHER OF THESE CONDITIONS EXIST.
5. WHEN OPTIONAL CHANGEABLE MESSAGE SIGNS ARE IN EFFECT, THE PORTABLE LANE CLOSURE SIGNS (*1, *2, & *3) WILL BE REMOVED AND THE "UNEVEN LANES" SIGNS WILL BE PLACED ACCORDINGLY.
6. DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
7. ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
8. SINGLE MOUNTED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.
9. CONTACT THE TRAFFIC MANAGEMENT UNIT AT 919-250-4159 FOR ADDITIONAL TRAFFIC CONTROL GUIDANCE.



NOTE:
SIGN NOT REQUIRED IF ADVANCE
WARNING SIGNS HAVE BEEN PLACED
ALONG -Y- LINE THAT RAMP INTERSECTS.
IF CONSTRUCTION LIMITS ARE AT END
OF RAMP, PLACE SIGN AT END OF RAMP.

LEGEND

- FLASHING ARROW PANEL (TYPE C)
- TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
- DRUM
- PORTABLE SIGN
- DIRECTION OF TRAFFIC FLOW
- CHANGEABLE MESSAGE SIGN

APPROVED: _____	DATE: _____	"WORK ZONE VARIABLE SPEED LIMIT" REDUCTION WITH PORTABLE SIGNS	
SEAL	SCALE: NONE	REVISIONS	
	DATE: 08-08	02-09	
	DWG. BY: PS		
	DESIGN BY: SK		
	REVIEWED BY: SK		

23-FEB-2009 17:41
 d:\resurfacing\0508\resurfacing2009\dwg\3\C202253_423443.gvl_14908BA_noReduction_022009.dgn
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