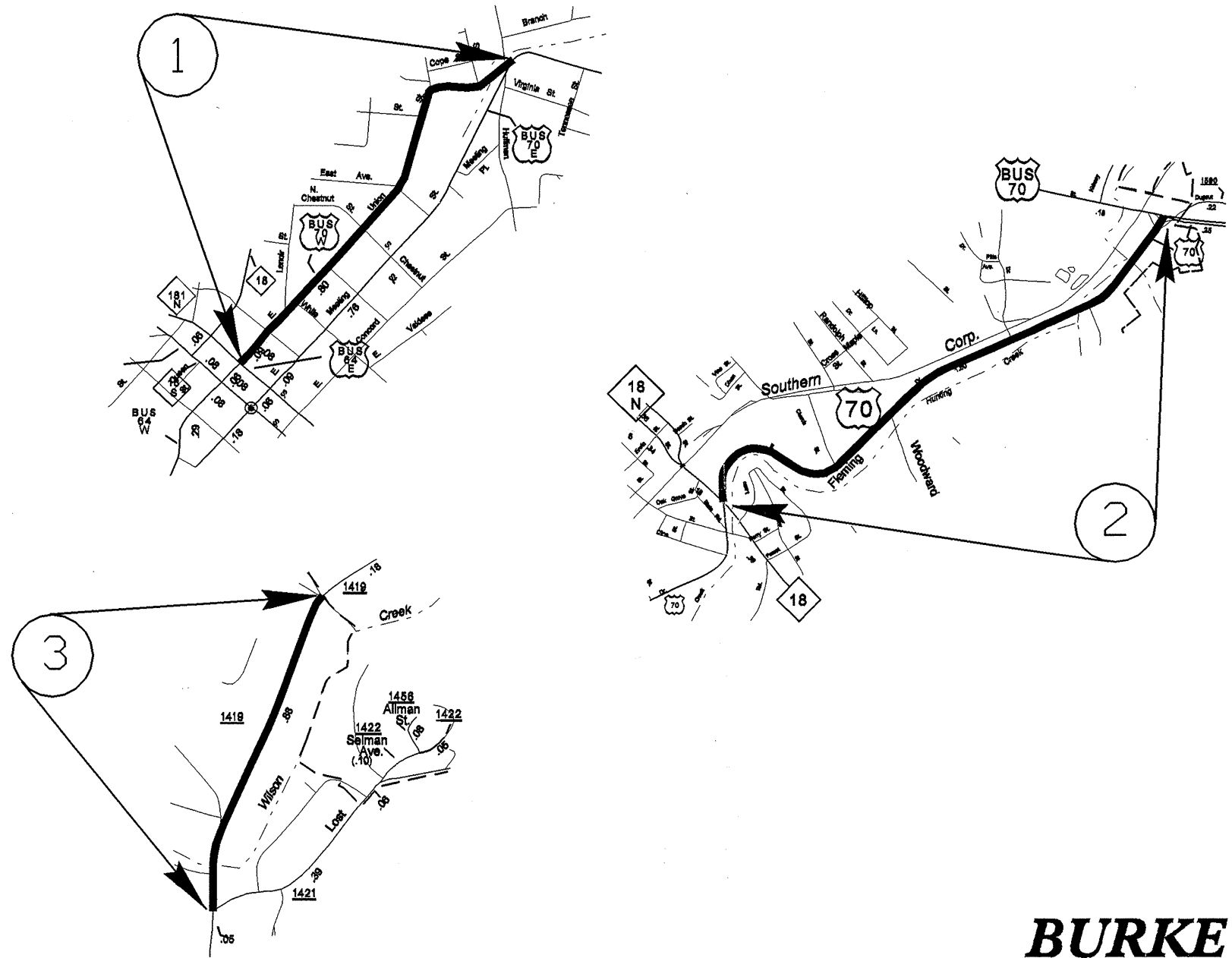
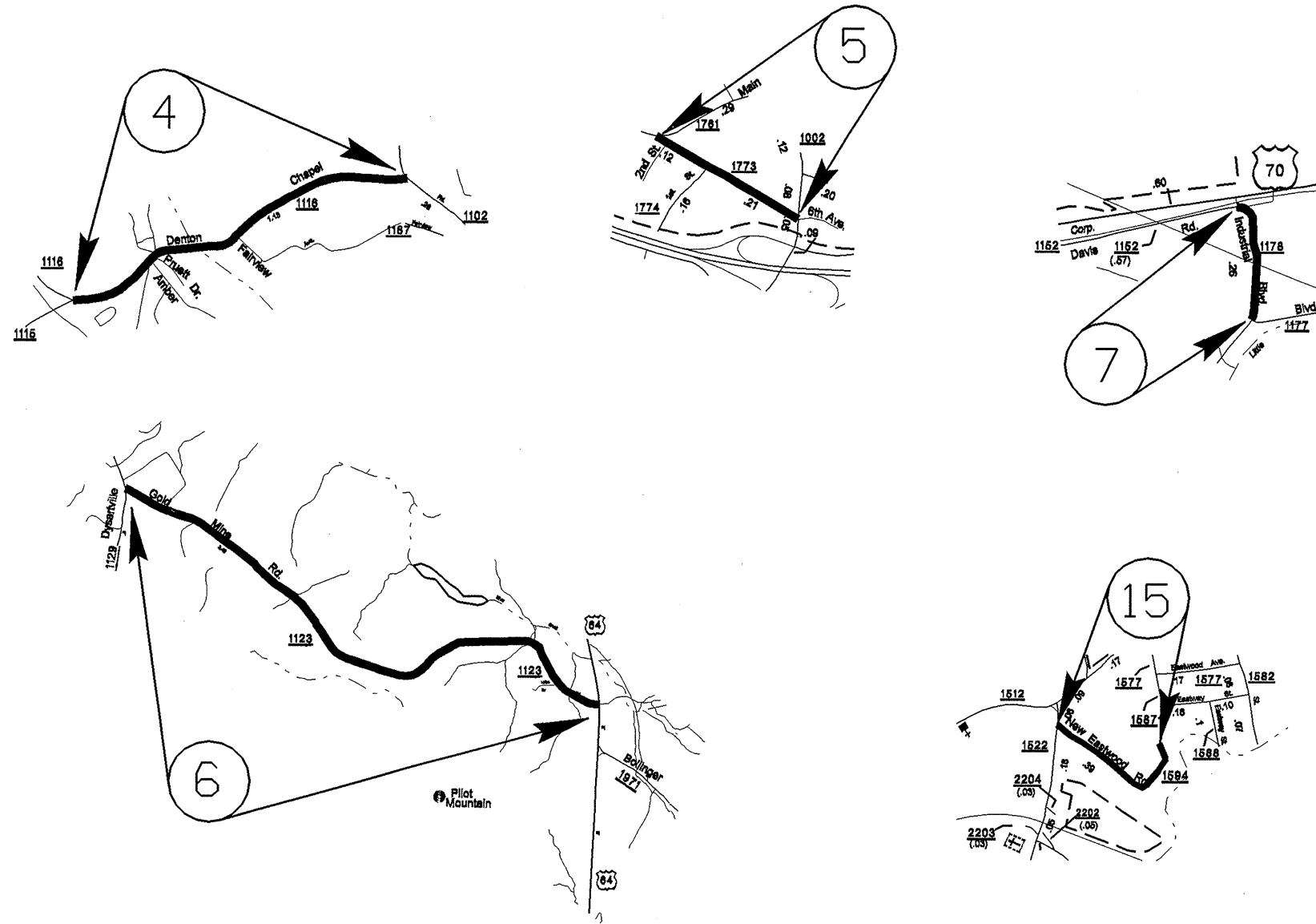


PROJECT NO.	SHEET NO.	TOTAL SHEETS
13CR.1012L.4 , 13CR.2012L.4	1	



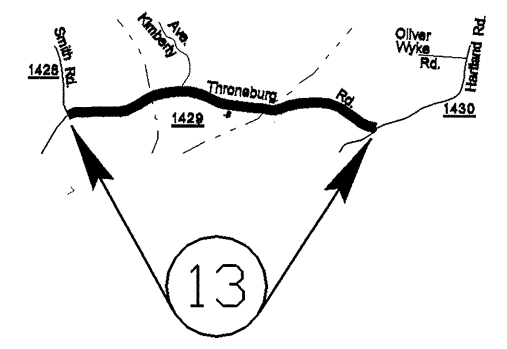
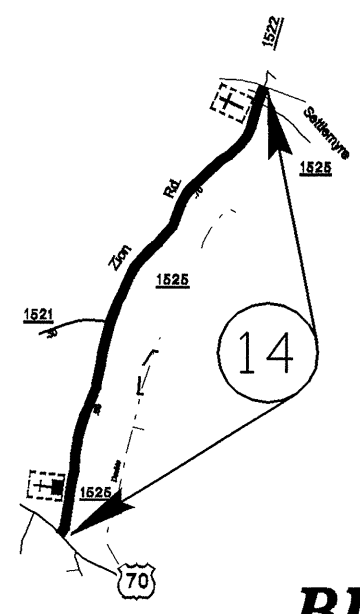
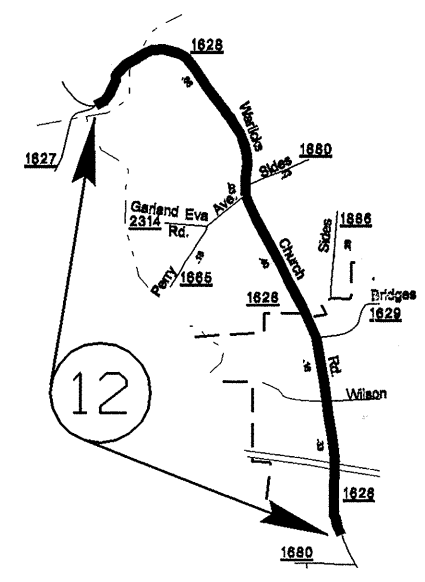
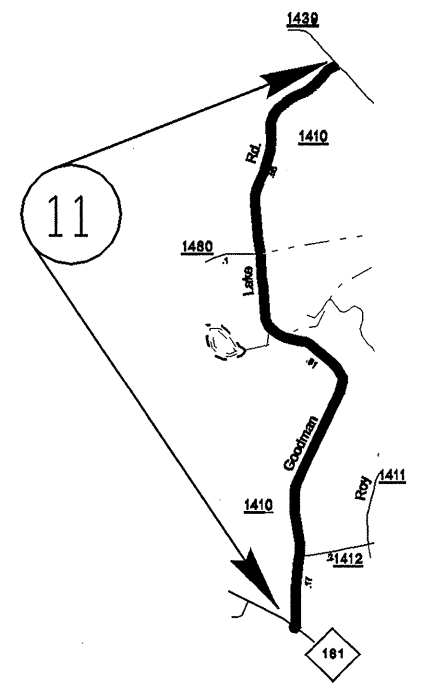
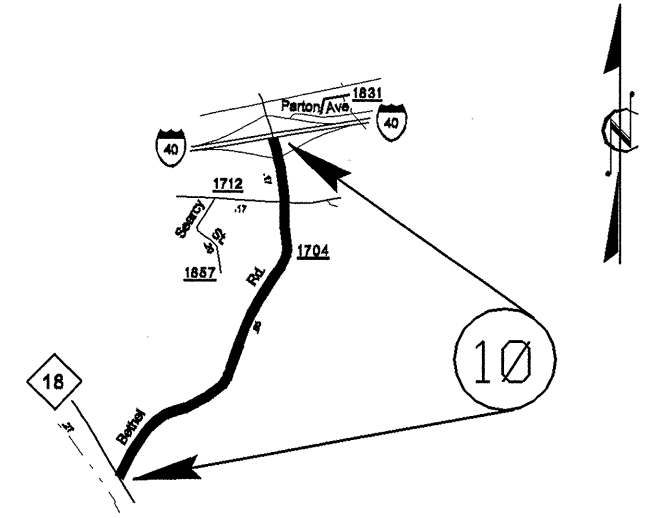
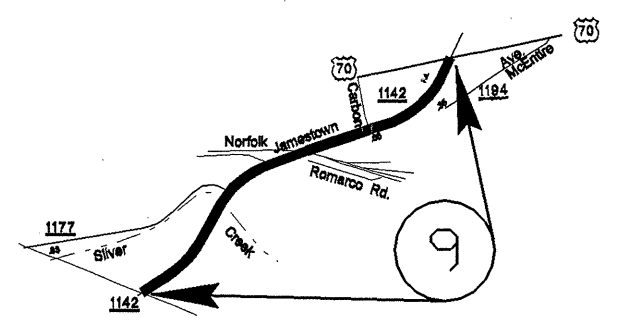
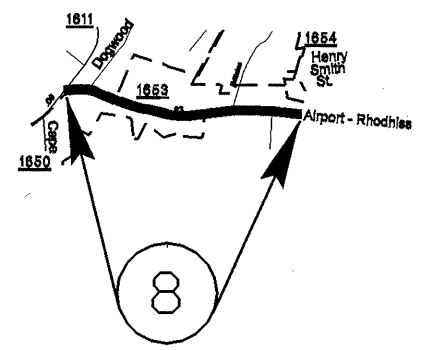
BURKE COUNTY

PROJECT NO.	SHEET NO.	TOTAL SHEETS
13CR.10121.4 , 13CR.20121.4	2	



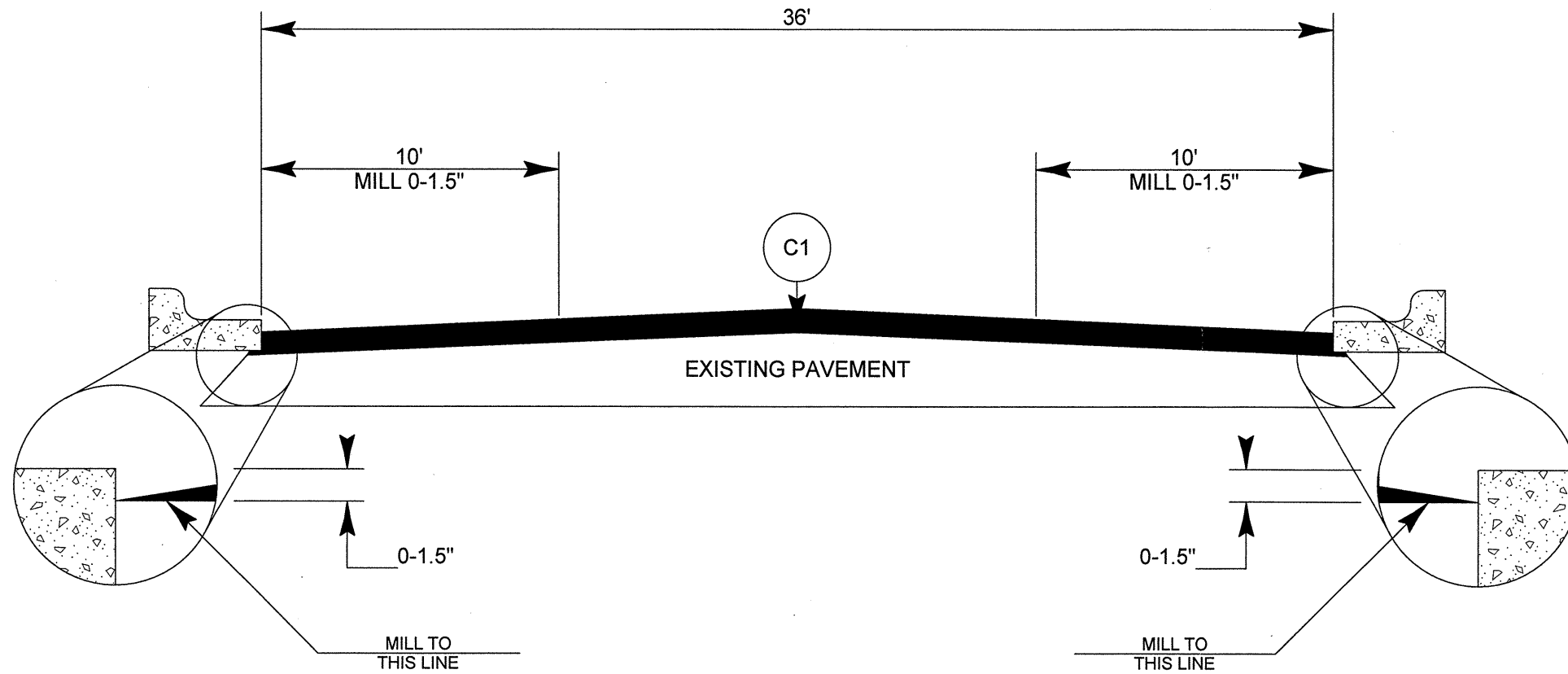
BURKE COUNTY

PROJECT NO.	SHEET NO.	TOTAL SHEETS
13CR.10121.4, 13CR.20121.4	3	

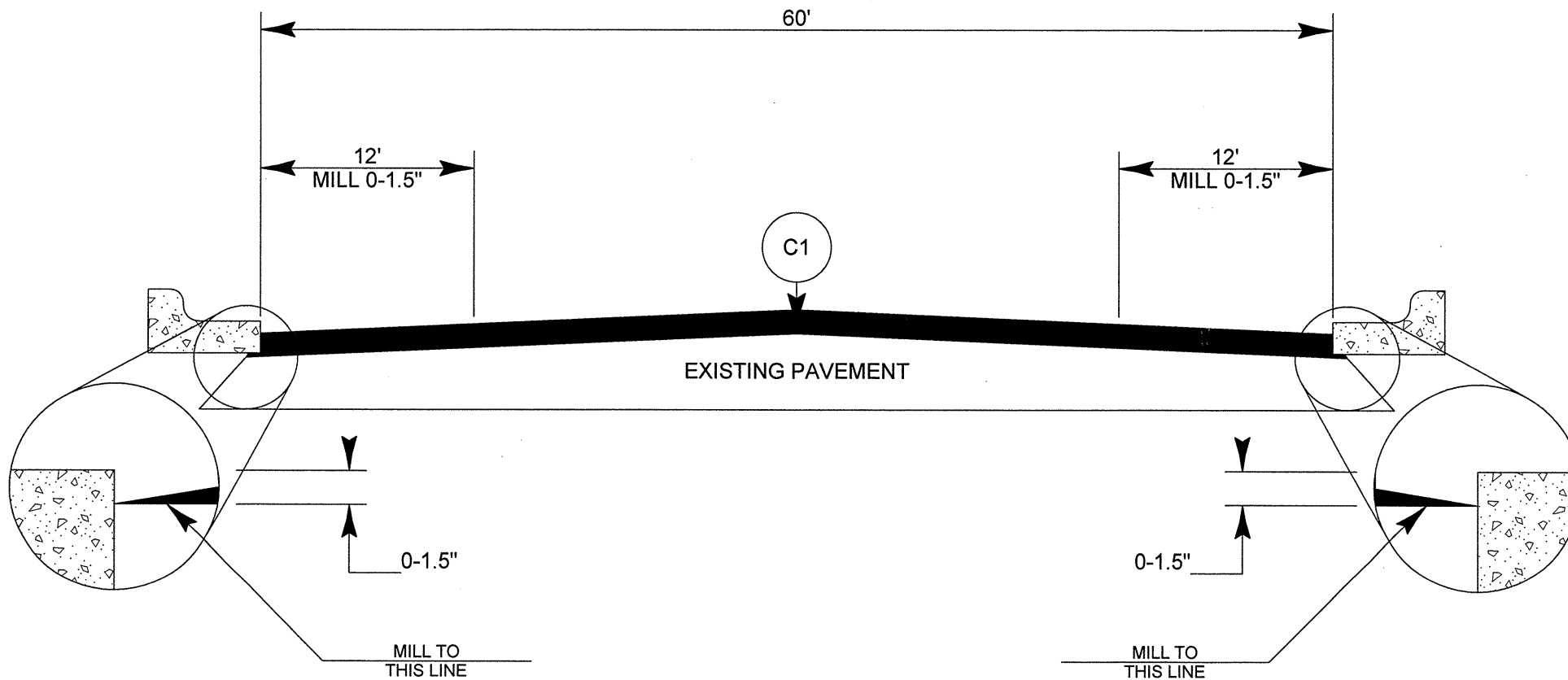


BURKE COUNTY

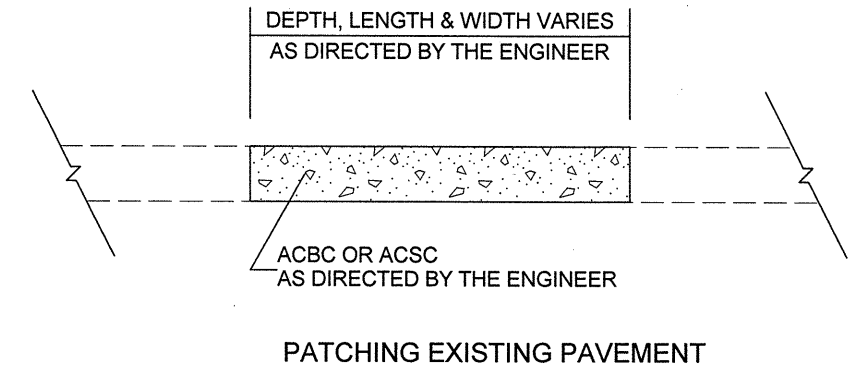
PROJECT NO. 13CR.10121.4, 13CR.20121.4	SHEET NO. 4	TOTAL SHEETS
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TYPICAL SECTION NO. 1

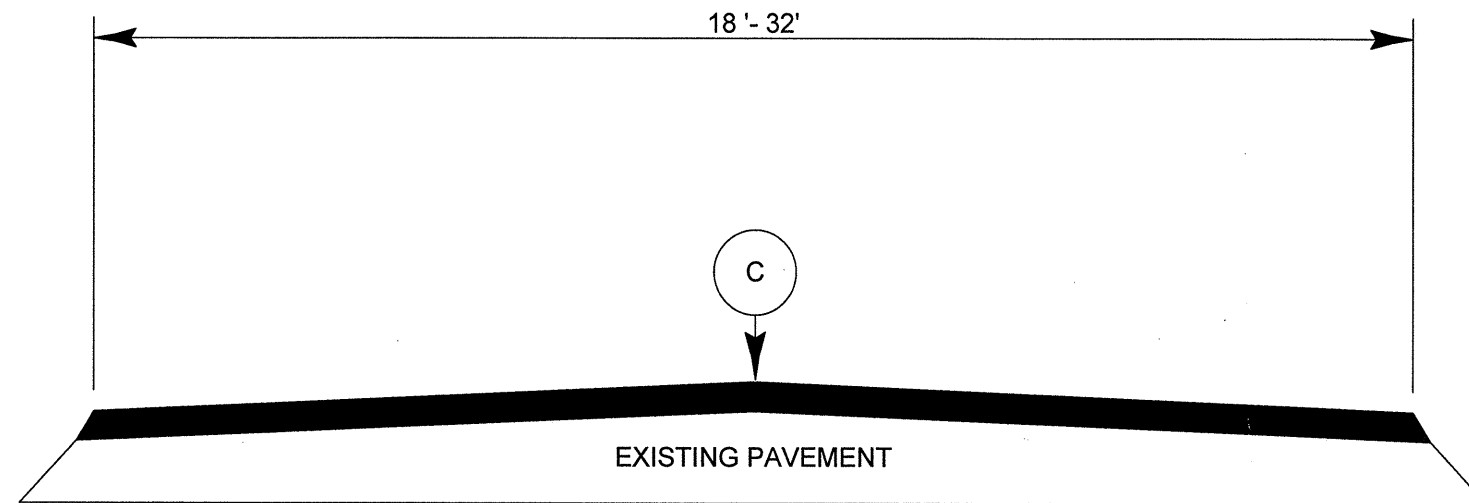


TYPICAL SECTION NO. 2

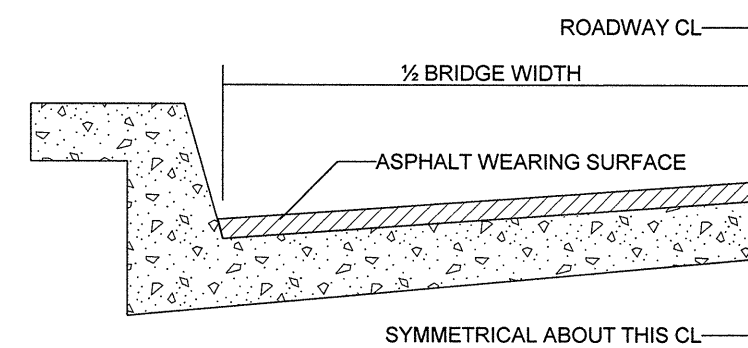


PAVEMENT SCHEDULE	
C	PROP. APPROX. 1 1/2" ACSC, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS PER SQ. YD.
C1	PROP. APPROX. 1 1/2" ACSC, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.

PROJECT NO.	SHEET NO.	TOTAL SHEETS
13CR.10121.4, 13CR.20121.4	5	



TYPICAL SECTION NO. 3



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. A THICKNESS OF NOT LESS THAN 5/8" SHALL BE PROVIDED. THE MAXIMUM THICKNESS SHALL PREFERABLY BE 1 1/2" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.

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.

PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10121.4, 13CR.20121.4	6	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	0" TO 1.5" MILLING SY	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TON	PG 64-22 PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	WHEELCHAIR RAMPS EA	MANHOLES EA	METER OR VALVE BOX EA
13CR.10121.4	Burke	1	US 70 BUS	NC 181 TO CENTER ST.	1	0.89	36		10,443	1,743		105	20	9	12	1
		2	US 70 BYPASS	NC 18 TO US 70	2	1.8	60		25,344	5,867		352	225		17	19
TOTAL FOR PROJ NO. 13CR.10121.4						2.69			35,787	7,610		457	245	9	29	20
13CR.20121.4	Burke	3	SR 1419	FROM NCMA TO NCL MORGANTON	3	0.87	19	44			886	58	30			
		4	SR 1116	FROM SR 1115 TO SR 1102	3	1.25	18	63			1,206	78	60			
		5	SR 1773	FROM OLD NC 10 TO 1002	3	0.33	18	17			318	21	50			
		6	SR 1123	FROM US 64 TO SR 1129	3	2.5	22	125			2,945	191	190			
		7	SR 1178	FROM SR 1178 TO SR 1152	3	0.3	20	15			321	21	30		1	1
		8	SR 1653	FROM SR 1611 TO CL	3	0.66	20	33			707	46	20			
		9	SR 1142	US 70 TO BEGIN 3 LANE	3	1	32	50			1,710	111				
		10	SR 1704	FROM NC 18S TO I-40	3	1.02	18	51			984	64	40		1	2
		11	SR 1410	FROM NC 181 TO SR 1439	3	1.7	18	85			1,640	107	80			
		12	SR 1628	FROM CL TO SR 1627	3	1.61	20	81			1,725	112				
		13	SR1429	FROM SR 1430 TO SR 1428	3	0.8	18	40			772	50	10			
		14	SR 1525	FROM US 70 TO SR 1522	3	1.26	20	63			1,350	88				1
		15	SR 1594	FROM SR 1522 TO D.E.	3	0.39	20	20			418	27	50			
TOTAL FOR PROJ NO. 13CR.20121.4						13.69		687			14,982	974	560		2	4
GRAND TOTAL						16.38		687	35,787	7,610	14,982	1,431	805	9	31	24

THERMOPLASTIC AND PAINT QUANTITIES

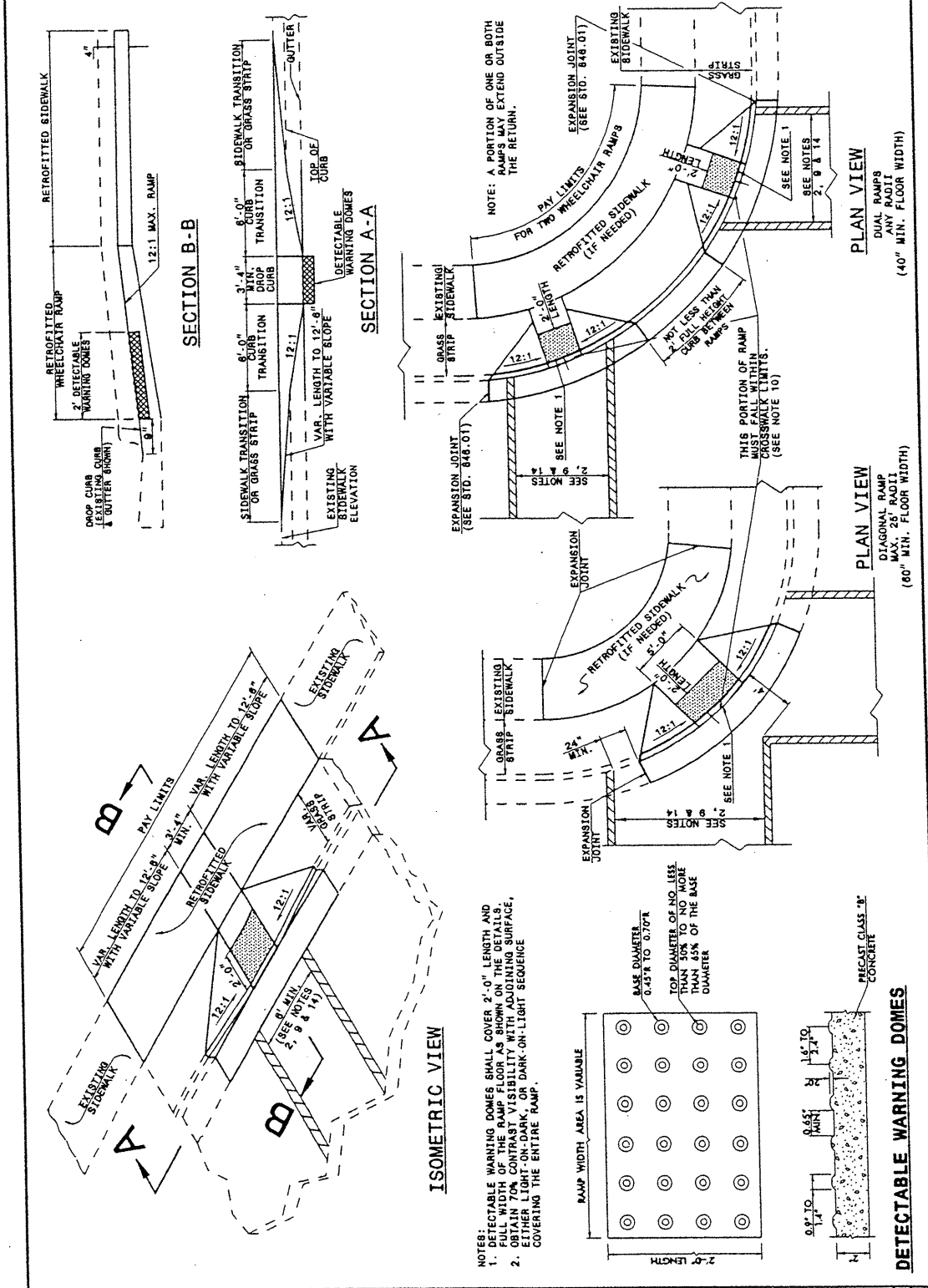
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	468600000-E		469700000-E	471000000-E	472500000-E			481000000-E	
					4" X 120 M WHITE THERMO	4" X 120 M YELLOW THERMO	8" X 120 M WHITE THERMO	24" X 120 M WHITE THERMO	THERMO LT ARROW 90 M	THERMO STR ARROW 90 M	THERMO RT ARROW 90 M	4" WHITE PAINT	4" YELLOW PAINT
					LF	LF	LF	LF	EA	EA	EA	LF	LF
13CR.10121.4	Burke	1	US 70 BUS	NC 181 TO CENTER ST.	1,175		144	168	30	4	2		
		2	US 70 BYPASS	NC 18 TO US 70	4,752	23,760		96	67	6	4		
TOTAL FOR PROJ NO. 13CR.10121.4					5,927	23,760	144	264	97	10	6		
					29,687				113				
13CR.20121.4	Burke	3	SR 1419	FROM NCMA TO NCL MORGANTON								18,374	18,374
		4	SR 1116	FROM SR 1115 TO SR 1102								26,400	26,400
		5	SR 1773	FROM OLD NC 10 TO 1002								6,970	6,970
		6	SR 1123	FROM US 64 TO SR 1129								52,800	52,800
		7	SR 1178	FROM SR 1178 TO SR 1152								6,336	6,336
		8	SR 1653	FROM SR 1611 TO CL								13,939	13,939
		9	SR 1142	US 70 TO BEGIN 3 LANE								21,120	21,120
		10	SR 1704	FROM NC 18S TO I-40								21,542	21,542
		11	SR 1410	FROM NC 181 TO SR 1439								35,904	35,904
		12	SR 1628	FROM CL TO SR 1627								34,003	34,003
		13	SR1429	FROM SR 1430 TO SR 1428								16,896	16,896
		14	SR 1525	FROM US 70 TO SR 1522								26,611	26,611
		15	SR 1594	FROM SR 1522 TO D.E.								8,237	8,237
TOTAL FOR PROJ NO. 13CR.20121.4												289,132	289,132
GRAND TOTAL					5,927	23,760	144	264	97	10	6	289,132	289,132
					29,687				113			578,264	

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

ENGLISH DETAIL DRAWING FOR
WHEELCHAIR RAMP AND EXISTING SIDEWALK
WITH GRASS STRIP
CURB CUT

SHEET 1 OF 5
848D06



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

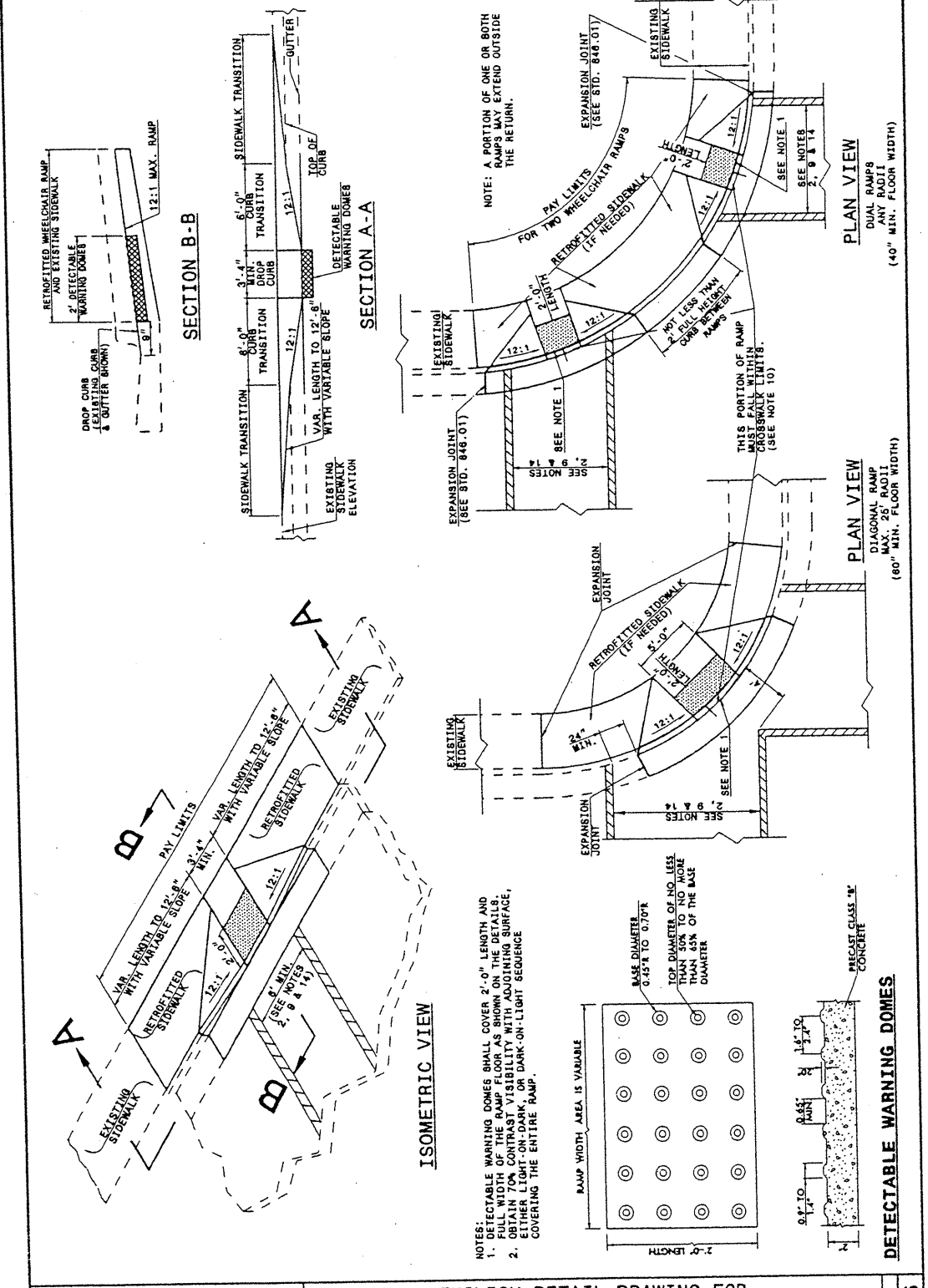
ENGLISH DETAIL DRAWING FOR
WHEELCHAIR RAMP AND EXISTING SIDEWALK
WITH GRASS STRIP
CURB CUT

SHEET 1 OF 5
848D06

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

ENGLISH DETAIL DRAWING FOR
WHEELCHAIR RAMP AND EXISTING SIDEWALK
ADJACENT TO CURB
CURB CUT

SHEET 2 OF 5
848D06



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

ENGLISH DETAIL DRAWING FOR
WHEELCHAIR RAMP AND EXISTING SIDEWALK
ADJACENT TO CURB
CURB CUT

SHEET 2 OF 5
848D06

PROJECT SERVICES UNIT
STANDARDS AND SPECIAL DESIGN
Office 919-250-4128 FAX 919-250-4119

SEE PLATE FOR TITLE

ORIGINAL BY: DETAIL 848005 DATE: 09-06-05
MODIFIED BY: E.E. WARD DATE: 09-06-05
CHECKED BY: DATE:
FILE SPEC.: usrfstds\02todetail\english\84806\848d06.dgn

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

ENGLISH DETAIL DRAWING FOR WHEELCHAIR RAMP AND EXISTING SIDEWALK CURB CUT

SHEET 5 OF 5
848D06

- NOTES:
1. CONSTRUCT THE WALKING SURFACE WITH SLIP RESISTANCE AND A 70% CONTRASTING COLOR TO THE SIDEWALK.
 2. CROSSWALK WIDTHS AND CONFIGURATION VARY, BUT MUST CONFORM TO TRAFFIC DESIGN STANDARDS.
 3. NORTH CAROLINA GENERAL STATUTE 136-44.14 REQUIRES THAT ALL STREET CURBS BEING CONSTRUCTED OR RECONSTRUCTED FOR MAINTENANCE PROCEDURES, TRAFFIC OPERATIONS, REPAIRS, CORRECTION OF UTILITIES OR ALTERED FOR ANY REASON AFTER SEPTEMBER 1, 1973 SHALL PROVIDE WHEELCHAIR RAMPS FOR THE PHYSICALLY DISABLED AT ALL INTERSECTIONS WHERE BOTH CURB AND GUTTER AND SIDEWALKS ARE PROVIDED AND AT OTHER POINTS OF PEDESTRIAN FLOW.
 4. IN ADDITION, SECTION 228 OF THE 1973 FEDERAL AID HIGHWAY SAFETY ACT REQUIRES PROVISION OF CURB RAMPS ON ANY CURB CONSTRUCTION AFTER JULY 1, 1976 WHETHER A SIDEWALK IS PROPOSED INITIALLY OR IS PLANNED FOR A FUTURE DATE.
 5. THE AMERICANS WITH DISABILITIES ACT (ADA) OF 1990 EXTENDS TO INDIVIDUALS WITH DISABILITIES, COMPREHENSIVE CIVIL RIGHTS PROTECTIONS SIMILAR TO THOSE PROVIDED TO PERSONS ON THE BASIS OF RACE, SEX, NATIONAL ORIGIN AND RELIGION UNDER THE CIVIL RIGHTS ACT OF 1964. THESE CURB RAMPS HAVE BEEN DESIGNED TO COMPLY WITH THE CURRENT ADA STANDARDS.
 6. PROVIDE WHEELCHAIR RAMPS AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. LOCATE WHEELCHAIR RAMPS AS DIRECTED BY THE ENGINEER WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT. WHERE TWO RAMPS ARE INSTALLED PLACE NOT LESS THAN 2 FEET OF FULL HEIGHT CURB BETWEEN THE RAMPS. PLACE DUAL RAMPS AS NEAR PERPENDICULAR TO THE TRAVEL LANE BEING CROSSED AS POSSIBLE.
 7. DO NOT EXCEED 0.08 (12:1) SLOPE ON THE WHEELCHAIR RAMP IN RELATIONSHIP TO THE GRADE OF THE STREET.
 8. CONSTRUCT WHEELCHAIR RAMPS 40" (3'-4") OR GREATER FOR DUAL RAMPS AND 60" (5'-0") OR GREATER FOR DIAGONAL RAMPS.
 9. USE CLASS "B" CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NON-SKID TYPE SURFACE.
 10. PLACE A 1/2" EXPANSION JOINT WHERE THE CONCRETE WHEELCHAIR RAMP JOINS THE CURB AND AS SHOWN ON STD. DWG. 848.01.
 11. PLACE THE INSIDE PEDESTRIAN CROSSWALK LINES NO CLOSER IN THE INTERSECTION BY BISECTING THE INTERSECTION RADIUS, WITH ALLOWANCE OF A 4' CLEAR ZONE IN THE VEHICULAR TRAVELWAY WHEN ONE RAMP IS INSTALLED. (SEE NOTE 14)
 12. COORDINATE THE CURB CUT AND THE PEDESTRIAN CROSSWALK LINES SO THE FLOOR OF THE WHEELCHAIR RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES. PLACE DIAGONAL RAMPS WITH FLARED SIDES SO 24" OF FULL HEIGHT CURB FALLS WITHIN THE CROSSWALK MARKINGS ON EACH SIDE OF THE FLARES.
 13. CONSTRUCT THE PEDESTRIAN CROSSWALK A MINIMUM OF 6 FEET. A CROSSWALK WIDTH OF 10 FEET OR GREATER IS DESIRABLE.
 14. USE STOP LINES, NORMALLY PERPENDICULAR TO THE LANE LINES, WHERE IT IS IMPORTANT TO INDICATE THE POINT BEHIND WHICH VEHICLES ARE REQUIRED TO STOP IN COMPLIANCE WITH A TRAFFIC SIGNAL, STOP SIGN OR OTHER LEGAL REQUIREMENT. AN UNUSUAL APPROACH SKEW MAY REQUIRE THE PLACEMENT OF THE STOP LINE TO BE PARALLEL TO THE INTERSECTING ROADWAY.
 15. TERMINATE PARKING A MINIMUM OF 20 FEET BACK OF PEDESTRIAN CROSSWALK.
 16. PLACE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION AND THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD.

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

ENGLISH DETAIL DRAWING FOR WHEELCHAIR RAMP AND EXISTING SIDEWALK CURB CUT

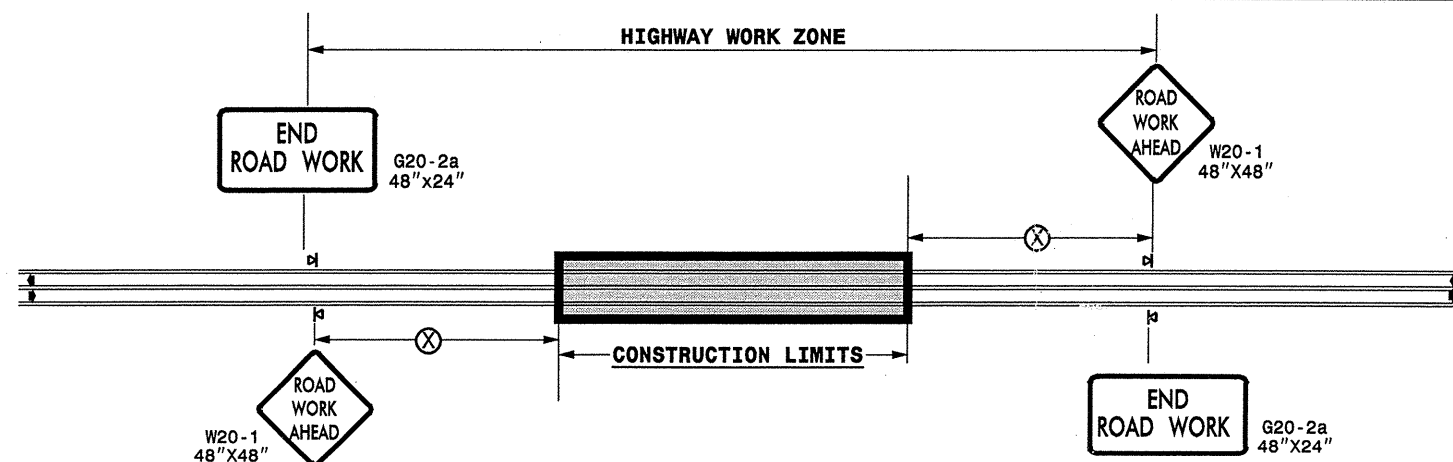
SHEET 5 OF 5
848D06

PROJECT SERVICES UNIT
STANDARDS AND SPECIAL DESIGN
Office 919-250-4128 FAX 919-250-4119

SEE PLATE FOR TITLE

ORIGINAL BY: DETAIL 848D05 DATE: _____
 MODIFIED BY: E.E. WARD DATE: 09-06-05
 CHECKED BY: _____ DATE: _____
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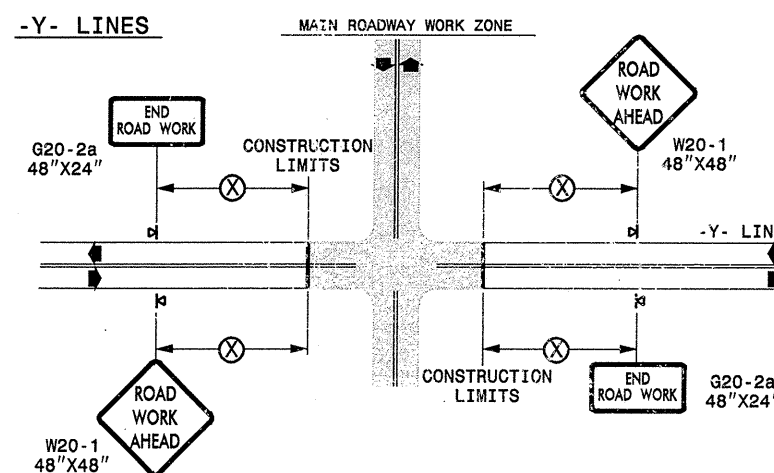
TWO-WAY UNDIVIDED ** (L-LINES)



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 ADVANCED 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

DETAIL DRAWING
FOR TWO-WAY UNDIVIDED
WORK ZONE WARNING SIGNS

SHEET 1 OF 1

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	CADD FILE	

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