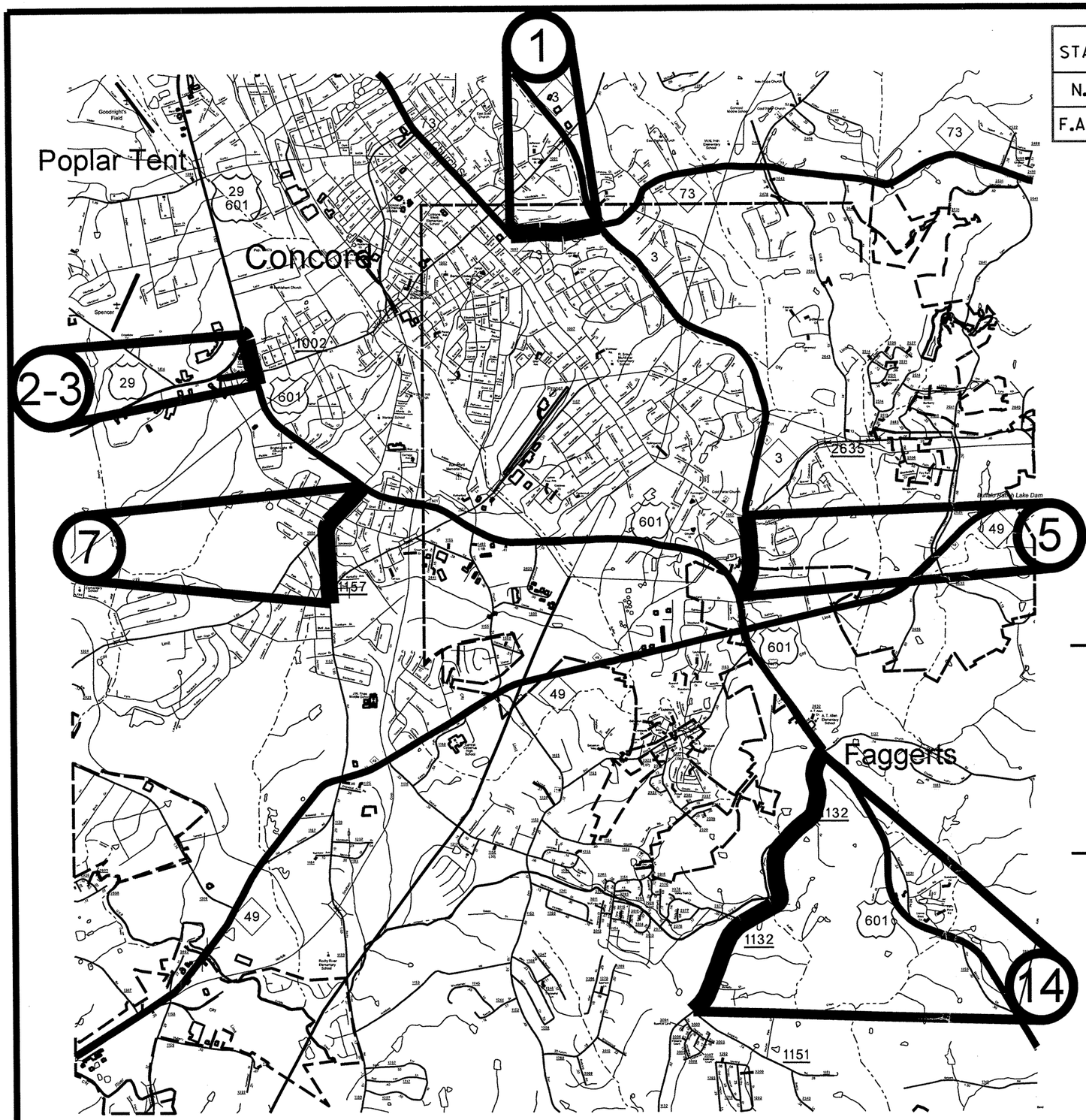
STATE	PROJECT NO.			SHEET NO.	TOTAL SHEETS
N.C.	10CR.10131.31 10CR.10131.35	10CR.10131.32 10CR.20131.92	10CR.10131.33 10CR.20131.99	1	
F.A. PROJECT NO.					



N

S

ENLARGED MUNICIPAL AND SUBURBAN AREAS

CABARRUS COUNTY

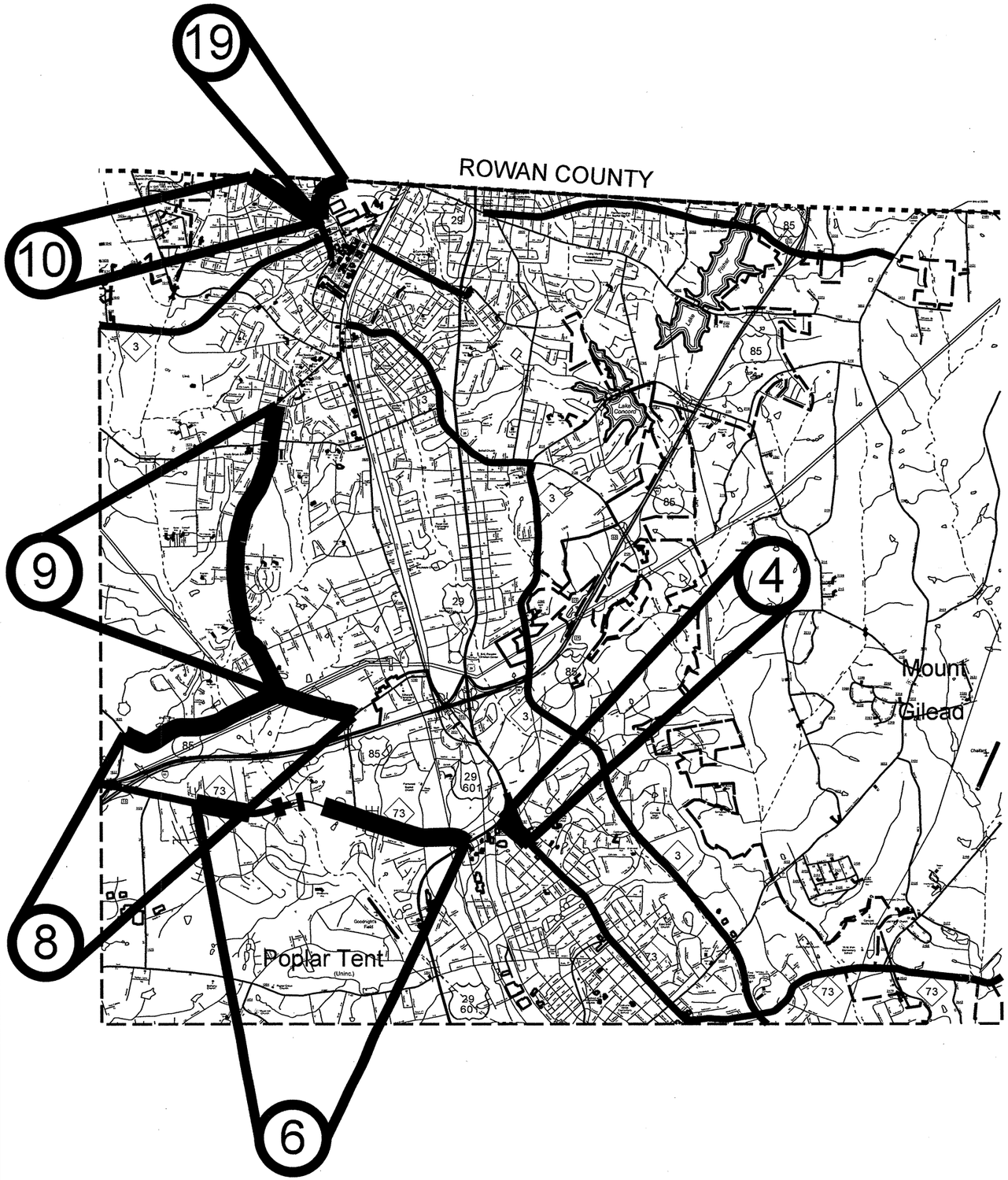
NORTH CAROLINA

PREPARED BY THE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 1

MAP #1 NC 73 (CORBAN AVE SE) 0.48 MILES	MAP #5 NC HWY 3 0.53 MILES
MAP #2 US HWY 601 N 0.31 MILES	MAP #7 SR-1335 (OLD CHARLOTTE RD) 0.73 MILES
MAP #3 US HWY 601 S 0.25 MILES	MAP #14 SR-1132(FLOWES STORE RD) 2.05 MILES

STATE	PROJECT NO.			SHEET NO.	TOTAL SHEETS
N.C.	10CR.10131.34 10CR.20131.94	10CR.10131.36 10CR.20131.95	10CR.20131.93 10CR.20131.104	2	
F.A. PROJECT NO.					



N

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ENLARGED MUNICIPAL AND SUBURBAN AREAS

CABARRUS COUNTY

NORTH CAROLINA

PREPARED BY THE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 1

MAP #4
NC HWY 73 BUS. (DAVIDSON DR)
0.2 MILES

MAP #9
SR-1745 (OAKWOOD AVE)
2.48 MILES

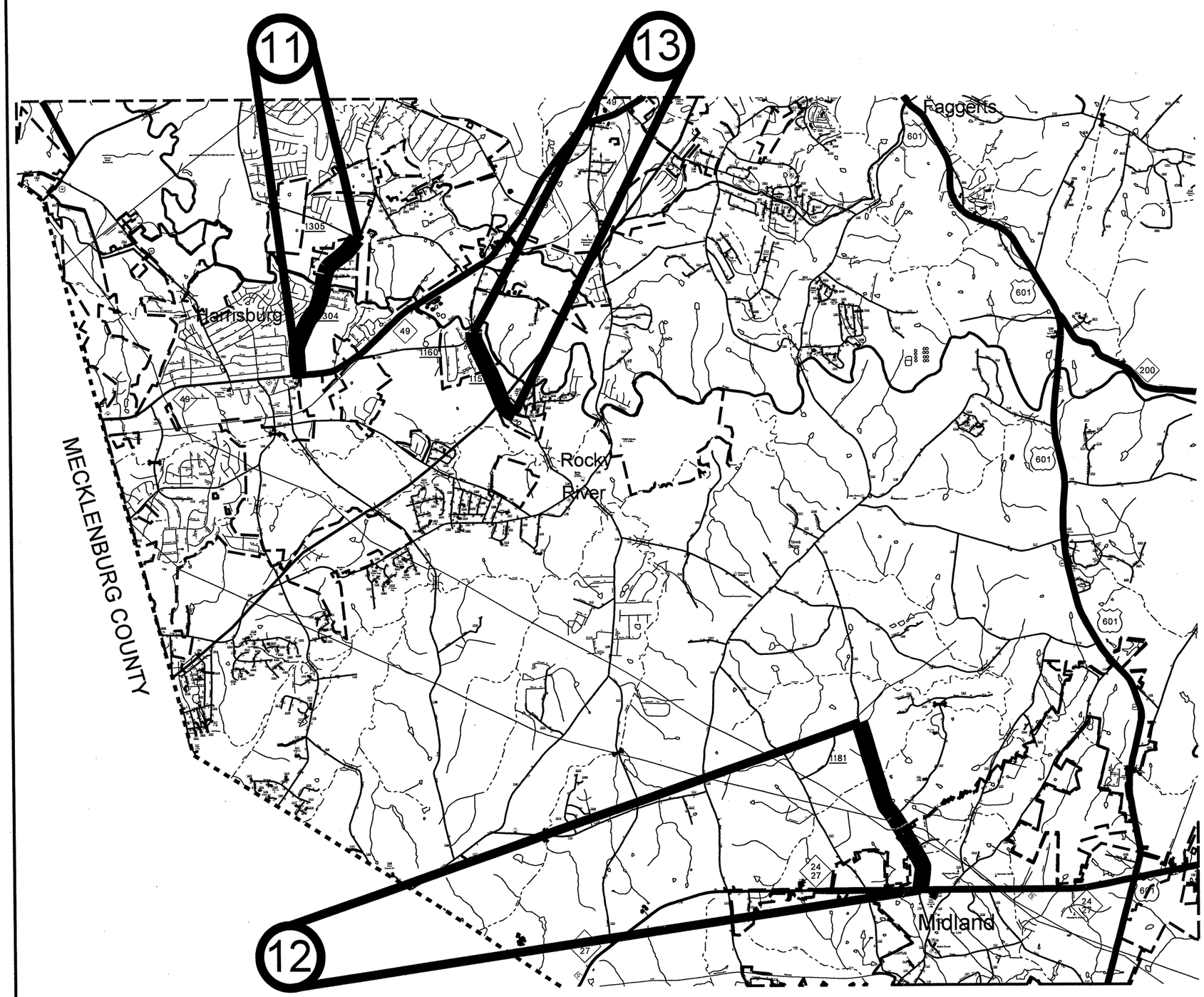
MAP #6
NC HWY 73
2.24 MILES

MAP #10
SR-1680 (WEST C ST)
0.62 MILES

MAP #8
SR-1778 (ORPHANAGE RD)
1.64 MILES

MAP #19
SR-1691 (N. LOOP RD)
0.38 MILES

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.20131.96 10CR.20131.97 10CR.20131.98	3	
F.A. PROJECT NO.			



N

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ENLARGED MUNICIPAL AND SUBURBAN AREAS

CABARRUS COUNTY

NORTH CAROLINA

PREPARED BY THE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 1

MAP #11

SR-1304 (ROBERTA RD)
1.24 MILES

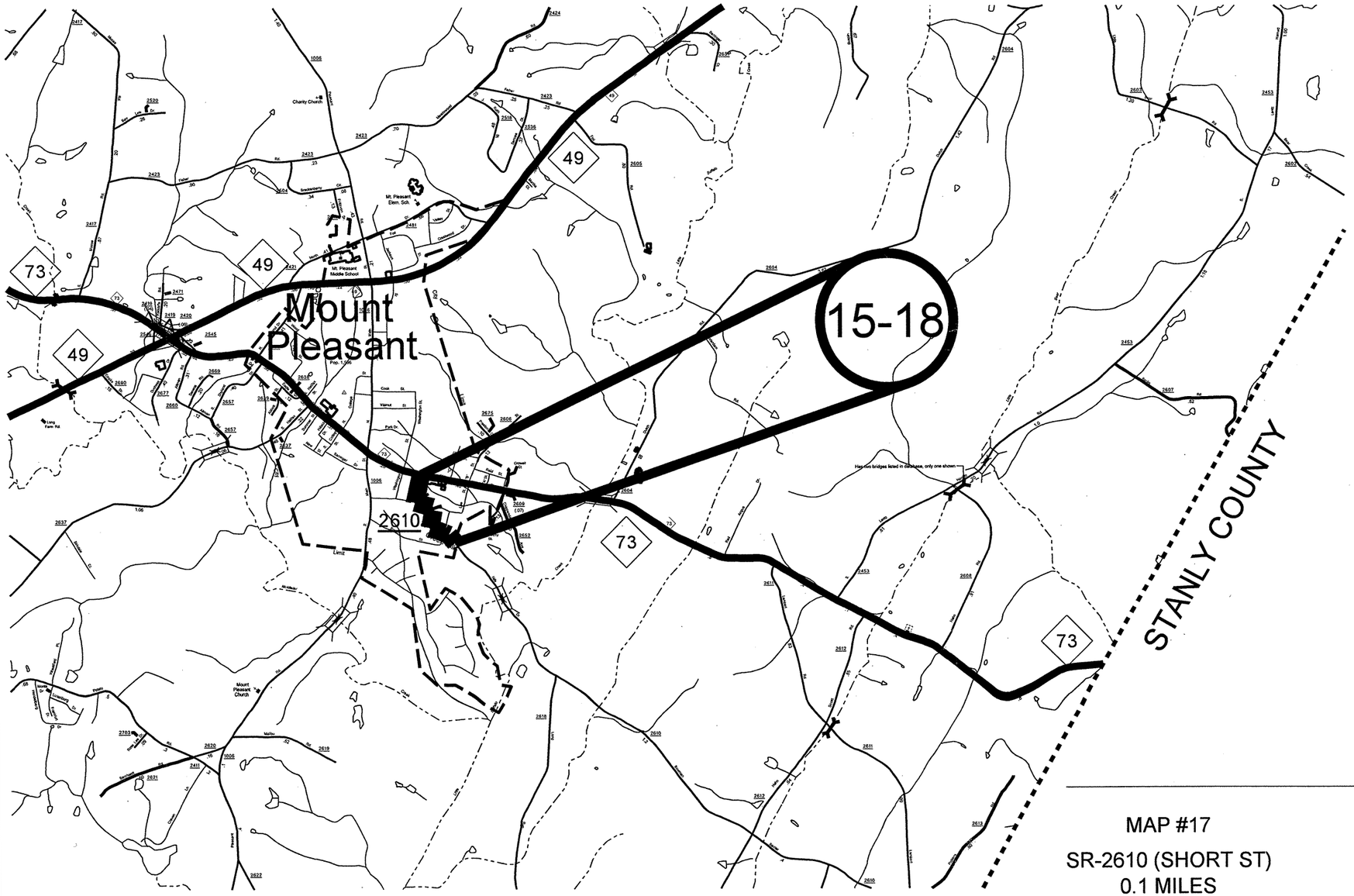
MAP #12

SR-1125 (BETHEL CHURCH RD)
1.8 MILES

MAP #13

SR-1158 (PHARR MILL RD)
0.75 MILES

STATE	PROJECT NO.		SHEET NO.	TOTAL SHEETS
N.C.	10CR.20131.100 10CR.20131.102	10CR.20131.101 10CR.20131.103	4	
F.A. PROJECT NO.				



N

S

ENLARGED MUNICIPAL AND SUBURBAN AREAS

CABARRUS COUNTY

NORTH CAROLINA

PREPARED BY THE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 1

MAP #15

SR-2610 (BARRINGER ST)
0.144 MILES

MAP #16

SR-2610 (LEE ST)
0.09 MILES

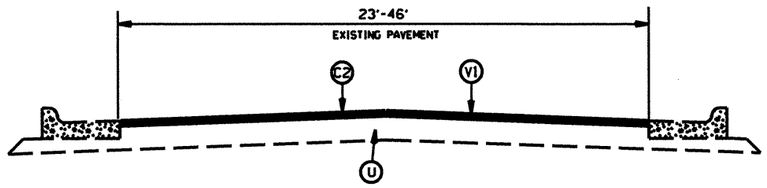
MAP #17

SR-2610 (SHORT ST)
0.1 MILES

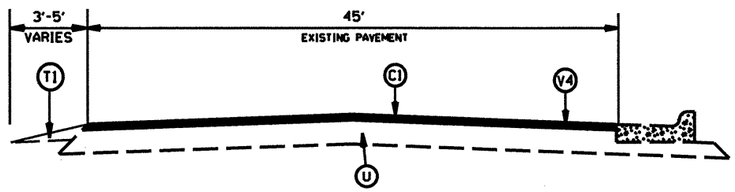
MAP #18

SR-2610 (GREEN HILLS DR)
0.32 MILES

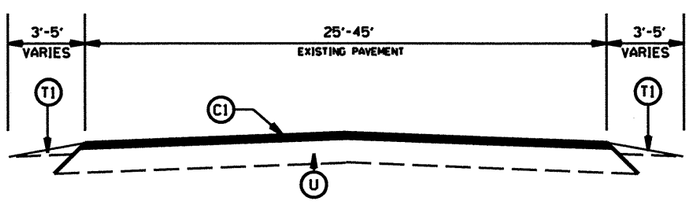
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10131.31-10CR.20131.104	5	
F.A. PROJECT NO.			



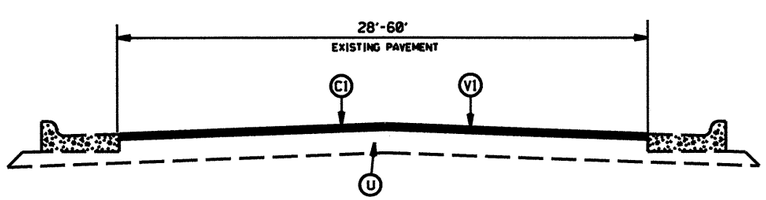
TYPICAL SECTION NO. 4
(MAP 9) SR-1745



TYPICAL SECTION NO. 3
(MAP 6) NC 73

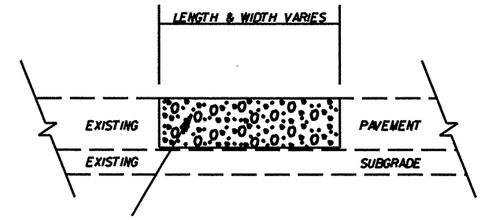


TYPICAL SECTION NO. 2
(MAP 5) NC 3 (UNION ST)
(MAP 6) NC 73



TYPICAL SECTION NO. 1
(MAP 5) NC 3 (UNION ST)
(MAP 1) NC 73 (CORBAN AVE)
(MAP 19) SR-1691

PATCHING DETAIL



RATE IS VARIABLE AND SHALL BE AS DIRECTED BY THE ENGINEER. ASPHALT TYPE 119.0C SHALL BE PLACED.

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP. APPROX. ASPHALT SURFACE TREATMENT, MATCOAT #6M STONE (WASHED), AT AN AVERAGE RATE OF 25 LBS. PER SQ. YD. (STONE) AND .35 GAL PER SQ. YD. (ASPHALT)
T1	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH
V2	MILLING OF EXISTING PAVEMENT, 2.5" IN DEPTH
V3	MILLING OF EXISTING PAVEMENT, 1.5"-3.0" IN DEPTH
V4	PROFILE MILLING OF EXISTING PAVEMENT, 0"-1.5" IN DEPTH

NOTES:
1: ON MAPS #2,#3,#4,#7 MILL 2.5", SWEEP TO REMOVE ALL LOOSE DEBRIS, PLACE MATCOAT #6M (WASHED STONE), ROLL, THEN PLACE PROP. ASPHALT. THE PROP. ASPHALT OPERATION SHOULD IMMEDIATELY FOLLOW THE MATCOAT PROCESS SO THAT IT BONDS. DO NOT ALLOW TRAFFIC ON TO THE MATCOAT. SEE SPECIAL PROVISION.

2: ON MAP #6, DO NOT RESURFACE OVER CONCRETE BRIDGE. ALSO EXCLUDE THE 1000' TURN LANE PROJECT AT CHADBOURNE AVE AND THE 1100' NEWLY PAVED SECTION AT CONCORD CHRISTIAN CHURCH.

3: ON MAP #6,#9,#11,#14,#15, PROFILE MILLING WILL BE NEEDED AT LOCATIONS AS DIRECTED BY THE ENGINEER.

4: ON MAP #8, DO NOT RESURFACE THE NEWLY PAVED BRIDGE SECTION.

5: ON MAP #10, IN SOME AREAS, THE EXISTING ASPHALT IS 1.5" ABOVE THE CURB AND GUTTER. MILL 1.5"-3" TO BRING PROPOSED ASPHALT FLUSH WITH EXISTING CURB AND GUTTER.

6: ON MAP #14, M111/F111 1.5" ON THE BRIDGE.

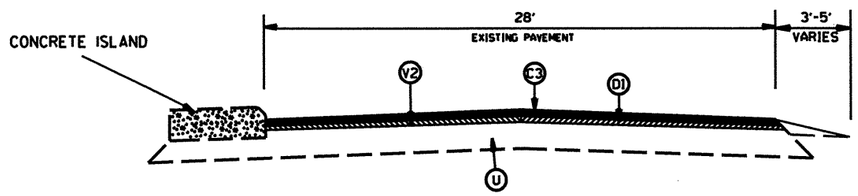
7: ON MAP #15, DO NOT RESURFACE THE PAVED SHOULDER AREA.

8: ON MAP #19, DO NOT RESURFACE THE 530' NEWLY PAVED SECTION.

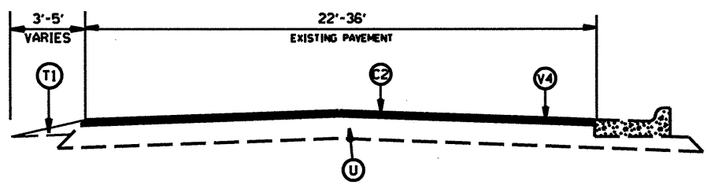
2013-2014 CABARRUS COUNTY RESURFACING

		REVISIONS	
SCALE	-NA-		
DATE	1/12		
DWG. BY	JAB		
DESIGN BY	JAB		
APPROVED	MPM		

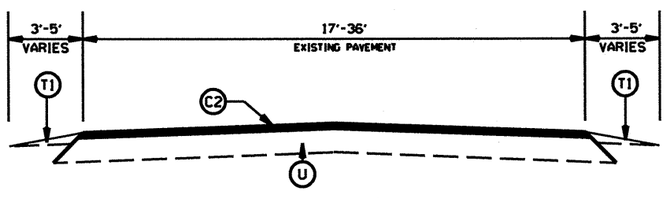
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10131.31- 10CR.20131.104	6 6	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 7
(MAP 2) US 601 N
(MAP 3) US 601 S

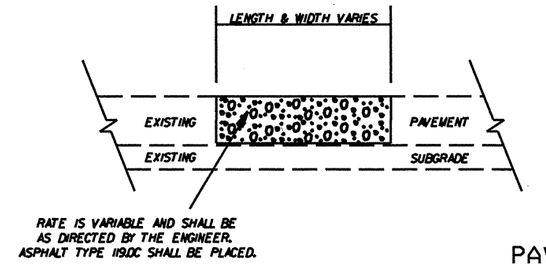


TYPICAL SECTION NO. 6
(MAP 11) SR-1304
(MAP 9) SR-1745



TYPICAL SECTION NO. 5
(MAP 14) SR-1132
(MAP 12) SR-1125
(MAP 15,16,17,18) SR-2610
(MAP 13) SR-1158
(MAP 11) SR-1304
(MAP 8) SR-1778
(MAP 9) SR-1745

PATCHING DETAIL



PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP. APPROX. ASPHALT SURFACE TREATMENT, MATCOAT #6M STONE (WASHED), AT AN AVERAGE RATE OF 25 LBS. PER SQ. YD. (STONE) AND .35 GAL PER SQ. YD. (ASPHALT)
T1	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH
V2	MILLING OF EXISTING PAVEMENT, 2.5" IN DEPTH
V3	MILLING OF EXISTING PAVEMENT, 1.5"-3.0" IN DEPTH
V4	PROFILE MILLING OF EXISTING PAVEMENT, 0"-1.5" IN DEPTH

NOTES:
1: ON MAPS #2,#3,#4,#7 MILL 2.5", SWEEP TO REMOVE ALL LOOSE DEBRIS, PLACE MATCOAT #6M (WASHED STONE), ROLL, THEN PLACE PROP. ASPHALT. THE PROP. ASPHALT OPERATION SHOULD IMMEDIATELY FOLLOW THE MATCOAT PROCESS SO THAT IT BONDS. DO NOT ALLOW TRAFFIC ON TO THE MATCOAT. SEE SPECIAL PROVISION.

2: ON MAP #6, DO NOT RESURFACE OVER CONCRETE BRIDGE. ALSO EXCLUDE THE 1000' TURN LANE PROJECT AT CHADBOURNE AVE AND THE 1100' NEWLY PAVED SECTION AT CONCORD CHRISTIAN CHURCH.

3: ON MAP #6,#9,#11,#14,#15, PROFILE MILLING WILL BE NEEDED AT LOCATIONS AS DIRECTED BY THE ENGINEER.

4: ON MAP #8, DO NOT RESURFACE THE NEWLY PAVED BRIDGE SECTION.

5: ON MAP #10, IN SOME AREAS, THE EXISTING ASPHALT IS 1.5" ABOVE THE CURB AND GUTTER. MILL 1.5"-3" TO BRING PROPOSED ASPHALT FLUSH WITH EXISTING CURB AND GUTTER.

6: ON MAP #14, M111/F111 1.5" ON THE BRIDGE.

7: ON MAP #15, DO NOT RESURFACE THE PAVED SHOULDER AREA.

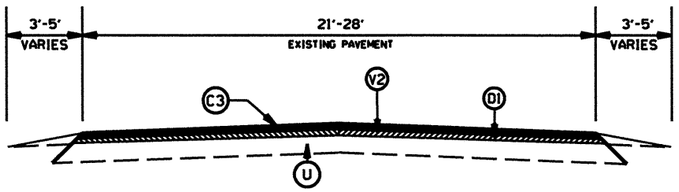
8: ON MAP #19, DO NOT RESURFACE THE 530' NEWLY PAVED SECTION.

2013-2014 CABARRUS COUNTY
RESURFACING

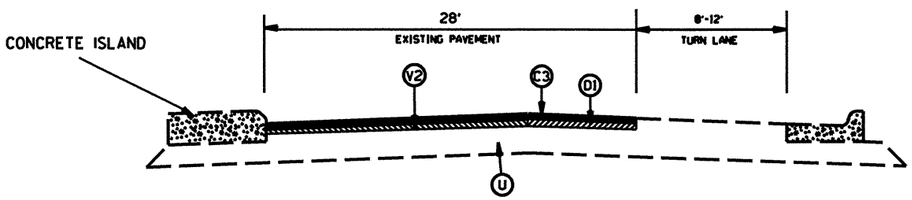
SCALE	-NA-
DATE	1/12
DWG. BY	JAB
DESIGN BY	JAB
APPROVED	MPM

REVISIONS

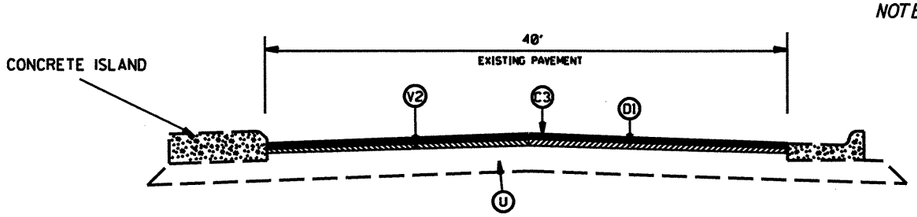
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10131.31- 10CR.20131.104	7	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 10
(MAP 2) US 601 N
(MAP 3) US 601 S
(MAP 7) SR-1335

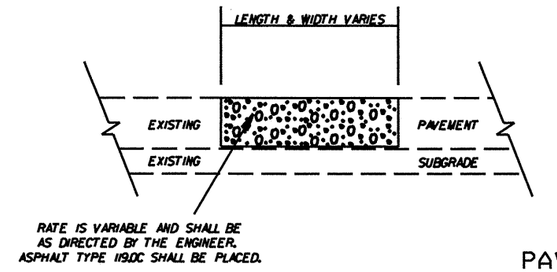


TYPICAL SECTION NO. 9
(MAP 2) US 601 N



TYPICAL SECTION NO. 8
(MAP 3) US 601 S

PATCHING DETAIL



PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP. APPROX. ASPHALT SURFACE TREATMENT, MATCOAT #6M STONE (WASHED), AT AN AVERAGE RATE OF 25 LBS. PER SQ. YD. (STONE) AND .35 GAL PER SQ. YD. (ASPHALT)
T1	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH
V2	MILLING OF EXISTING PAVEMENT, 2.5" IN DEPTH
V3	MILLING OF EXISTING PAVEMENT, 1.5"-3.0" IN DEPTH
V4	PROFILE MILLING OF EXISTING PAVEMENT, 0"-1.5" IN DEPTH

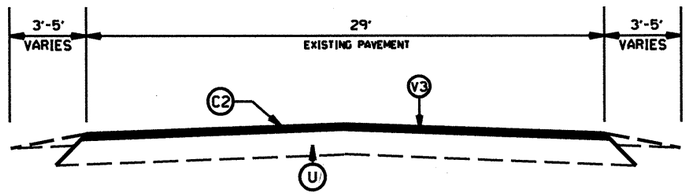
NOTES:
1: ON MAPS #2, #3, #4, #7 MILL 2.5", SWEEP TO REMOVE ALL LOOSE DEBRIS. PLACE MATCOAT #6M (WASHED STONE), ROLL, THEN PLACE PROP. ASPHALT. THE PROP. ASPHALT OPERATION SHOULD IMMEDIATELY FOLLOW THE MATCOAT PROCESS SO THAT IT BONDS. DO NOT ALLOW TRAFFIC ON TO THE MATCOAT. SEE SPECIAL PROVISION.
2: ON MAP #6, DO NOT RESURFACE OVER CONCRETE BRIDGE. ALSO EXCLUDE THE 1000' TURN LANE PROJECT AT CHADBOURNE AVE AND THE 1100' NEWLY PAVED SECTION AT CONCORD CHRISTIAN CHURCH.
3: ON MAP #6, #9, #11, #14, #15, PROFILE MILLING WILL BE NEEDED AT LOCATIONS AS DIRECTED BY THE ENGINEER.
4: ON MAP #8, DO NOT RESURFACE THE NEWLY PAVED BRIDGE SECTION.
5: ON MAP #10, IN SOME AREAS, THE EXISTING ASPHALT IS 1.5" ABOVE THE CURB AND GUTTER. MILL 1.5"-3" TO BRING PROPOSED ASPHALT FLUSH WITH EXISTING CURB AND GUTTER.
6: ON MAP #14, MILL/FILL 1.5" ON THE BRIDGE.
7: ON MAP #15, DO NOT RESURFACE THE PAVED SHOULDER AREA.
8: ON MAP #19, DO NOT RESURFACE THE 530' NEWLY PAVED SECTION.

2013-2014 CABARRUS COUNTY RESURFACING

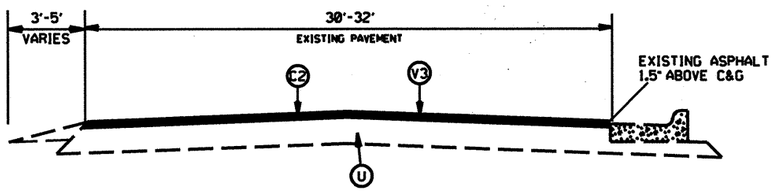
SCALE	-NA-
DATE	1/12
DWG. BY	JAB
DESIGN BY	JAB
APPROVED	MPM

REVISIONS

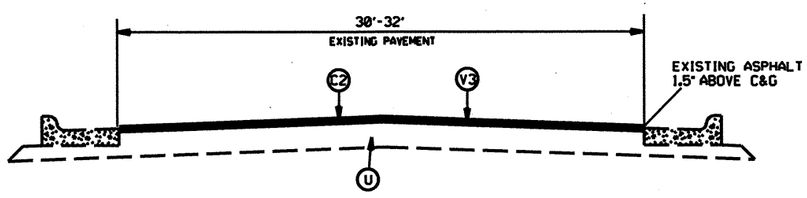
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10131.31-10CR.20131.104	8	
F.A. PROJECT NO.			



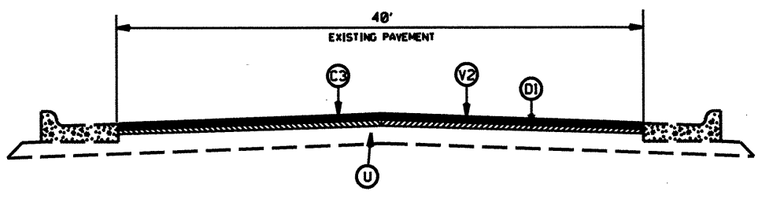
TYPICAL SECTION NO. 14
(MAP 10) SR-1680



TYPICAL SECTION NO. 13
(MAP 10) SR-1680

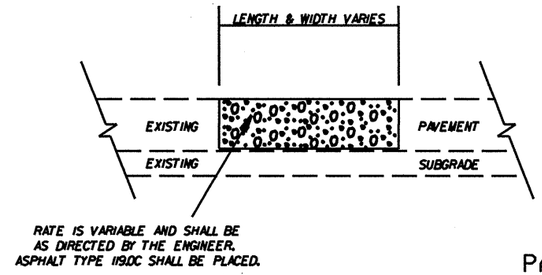


TYPICAL SECTION NO. 12
(MAP 10) SR-1680



TYPICAL SECTION NO. 11
(MAP 4) NC 73 (DAVIDSON DR)

PATCHING DETAIL



PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP. APPROX. ASPHALT SURFACE TREATMENT, MATCOAT #6M STONE (WASHED), AT AN AVERAGE RATE OF 25 LBS. PER SQ. YD. (STONE) AND .35 GAL PER SQ. YD. (ASPHALT)
T1	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH
V2	MILLING OF EXISTING PAVEMENT, 2.5" IN DEPTH
V3	MILLING OF EXISTING PAVEMENT, 1.5"-3.0" IN DEPTH
V4	PROFILE MILLING OF EXISTING PAVEMENT, 0"-1.5" IN DEPTH

NOTES:
1: ON MAPS #2,#3,#4,#7 MILL 2.5", SWEEP TO REMOVE ALL LOOSE DEBRIS, PLACE MATCOAT #6M (WASHED STONE), ROLL, THEN PLACE PROP. ASPHALT. THE PROP. ASPHALT OPERATION SHOULD IMMEDIATELY FOLLOW THE MATCOAT PROCESS SO THAT IT BONDS. DO NOT ALLOW TRAFFIC ON TO THE MATCOAT. SEE SPECIAL PROVISION.
2: ON MAP #6, DO NOT RESURFACE OVER CONCRETE BRIDGE. ALSO EXCLUDE THE 1000' TURN LANE PROJECT AT CHADBOURNE AVE AND THE 1100' NEWLY PAVED SECTION AT CONCORD CHRISTIAN CHURCH.
3: ON MAP #6, #9, #11, #14, #15, PROFILE MILLING WILL BE NEEDED AT LOCATIONS AS DIRECTED BY THE ENGINEER.
4: ON MAP #8, DO NOT RESURFACE THE NEWLY PAVED BRIDGE SECTION.
5: ON MAP #10, IN SOME AREAS, THE EXISTING ASPHALT IS 1.5" ABOVE THE CURB AND GUTTER, MILL 1.5"-3" TO BRING PROPOSED ASPHALT FLUSH WITH EXISTING CURB AND GUTTER.
6: ON MAP #14, M111/F111 1.5" ON THE BRIDGE.
7: ON MAP #15, DO NOT RESURFACE THE PAVED SHOULDER AREA.
8: ON MAP #19, DO NOT RESURFACE THE 530' NEWLY PAVED SECTION.

2013-2014 CABARRUS COUNTY RESURFACING

		REVISIONS	
SCALE	-NA-		
DATE	1/12		
DWG. BY	JAB		
DESIGN BY	JAB		
APPROVED	MPM		

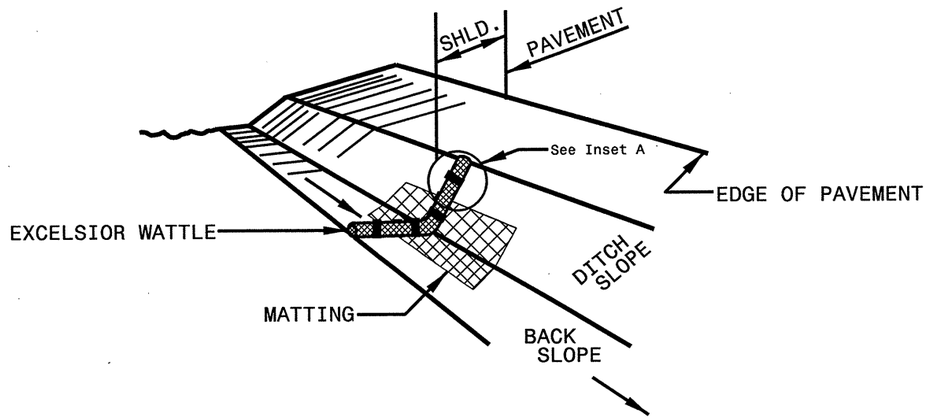
PROJECT NO.	SHEET NO.	TOTAL NO.
10CR.10131.31-10CR.20131.104	9	

SUMMARY OF QUANTITIES

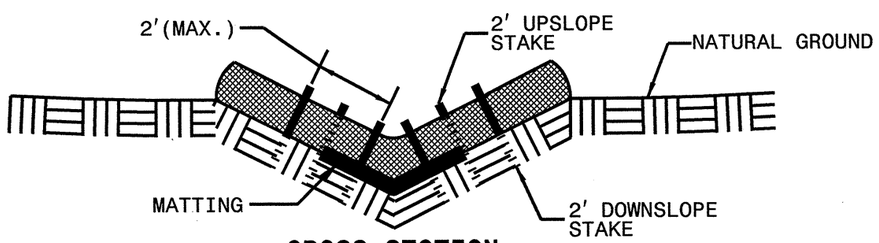
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	BORROW CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	1½" MILLING SY	2.5" MILLING SY	0" TO 1.5" MILLING SY	1.5" TO 3" MILLING SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	LEVELING COURSE, S9.5B TONS	SURFACE COURSE, S9.5C TONS	LEVELING COURSE, S9.5C TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ASPHALT SURFACE TREATMENT, MATCOAT, #6 STONE SY	RETROFIT EXISTING CURB RAMP EA	6" DRIVEWAYS SY	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA	TEMPORARY SILT FENCE LF	STONE FOR EROSION CONTROL, CLASS B TN	SEDIMENT CONTROL STONE TN	WATTLE LF	POLYACRYLAMIDE (PAM) LB
10CR.10131.31	Cabarrus	1	NC 73 (CORBAN AVE SE)	FROM THE INTERSECTION OF HWY 3 (BRANCHVIEW ST) TO THE PAVEMENT JOINT AT SHINN ST. MILEPOST 11.564 - 12.045	1	NO	NO	0.48	28-34				8,750							780		46	30		10			1						
10CR.10131.32	Cabarrus	2	US 601 N	FROM SR-1002 (CABARRUS AVE) TO THE PAVEMENT JOINT AT HWY 29. MILEPOST 17.42 - 17.73	7,9,10	NO	NO	0.31	28-40					5,200						670		40	60	5,200									
10CR.10131.33	Cabarrus	3	US 601 S	FROM SR-1002 (CABARRUS AVE) TO HWY 29. MILEPOST 17.6 - 17.35	7,8,10	NO	NO	0.25	28-40					4,700						570		34	50	4,700									
10CR.10131.34	Cabarrus	4	NC 73 BUS (DAVIDSON DR	FROM HWY 29 TO THE PAVEMENT JOINT AT SR-2287 (CHURCH ST). MILEPOST 9.27 - 9.47	11	NO	NO	0.2	40					4,750						580		34	100	4,750									
10CR.10131.35	Cabarrus	5	NC 3	FROM THE PAVEMENT JOINT AT SR-2635 (OLD AIRPORT RD) TO THE PAVEMENT JOINT AT HWY 601. MILEPOST 0.562 - 0.032	1,2	NO	NO	0.53	25-60	125	25	0.80	8,000							1,425		84	60			90	1	2				80	0.2
10CR.10131.36	Cabarrus	6	NC 73	FROM HWY 29 TO THE END OF THE I-85 PROJECT NEAR BRANSON RD. MILEPOST 6.7 - 8.91	2,3	NO	NO	2.24	25-45	400	140	3.40			600		50			3,375	750	243	650			90	4	8	200	30	15	200	0.5
10CR.20131.92	Cabarrus	7	SR-1335 (OLD CHARLOTTE RD)	FROM THE PAVEMENT JOINT AT HWY 601 TO THE PAVEMENT JOINT AT SR-1157 (WILSHIRE DR). MILEPOST 0.738 - 0.008	10	NO	NO	0.73	21					9,000						1,150		68	350	9,000									
10CR.20131.93	Cabarrus	8	SR-1778 (ORPHANAGE RD)	FROM THE PAVEMENT JOINT AT SR-1622 (TRINITY CHURCH RD) TO SR-1790 (WINCOFF SCHOOL RD). MILEPOST 0.009 - 1.649	5	NO	NO	1.64	22-36	500	70	3.10					50	2,230	900			188	550			36		2	200	30	15	200	0.5
10CR.20131.94	Cabarrus	9	SR-1745 (OAKWOOD AVE)	FROM SR-1778 (ORPHANAGE RD) TO WALKER ST. MILEPOST 0.0 - 2.48	4,5,6	NO	NO	2.48	20-46	900	186	4.00	8,100		1,500			3,366	1,400			286	750			90	7	3	350	50	25	350	0.8
10CR.20131.95	Cabarrus	10	SR-1680 (WEST C ST)	FROM SR-1691 (N. LOOP RD) TO THE PAVEMENT JOINT AT THE ROWAN COUNTY LINE. MILEPOST 0.0 - 0.62	12,13,14	NO	NO	0.62	29-32							11,500		1,065				64	300		4								
10CR.20131.96	Cabarrus	11	SR-1304 (ROBERTA RD)	FROM THE PAVEMENT JOINT NEAR HWY 49 TO THE PAVEMENT JOINT PAST SOLEN DR. MILEPOST 0.019 - 1.259	5,6	NO	NO	1.24	23-36	175	62	2.07			1,880			2,400	500			174	350			72	2	9	150	24	12	150	0.4
10CR.20131.97	Cabarrus	12	-1125 (BETHEL CHURCH R	FROM THE PAVEMENT JOINT AT HWY 24/27 TO SR-1181 (HELMSDALE RD) MILEPOST 0.364 - 2.164	5	NO	NO	1.8	20	1,000	70	3.60					40	2,250	1,500			225	1,000						300			300	0.7
10CR.20131.98	Cabarrus	13	SR-1158 (PHARR MILL RD)	FROM THE BRIDGE JOINT AT SR-1160 (SHAMROCK RD) TO THE PAVEMENT JOINT AT CANTERFIELD SUBDIVISION. MILEPOST 0.676 - 1.426	5	NO	NO	0.75	21	350	20	1.50					40	920	300			73	200			270	1		100	10	5	100	0.3
10CR.20131.99	Cabarrus	14	SR-1132 (FLOWES STORE RD)	FROM THE PAVEMENT JOINT AT HWY 601 TO THE PAVEMENT JOINT PAST SR-1151 (SIMPLICITY RD) MILEPOST 6.256 - 8.306	5	NO	NO	2.05	22	400	100	4.10	400		1,000			2,545	1,250			228	200					3				150	0.4
10CR.20131.100	Cabarrus	15	SR-2610 (BARRINGER ST)	FROM THE PAVEMENT JOINT AT HWY 73 TO SR-2610 (LEE ST) MILEPOST 0.009 - 0.153	5	NO	NO	0.144	17-18	10		0.04			400			140	50			11	86				3	2					
10CR.20131.101	Cabarrus	16	SR-2610 (LEE ST)	FROM SR-2610 (BARRINGER ST) TO SR-2610 (SHORT ST) MILEPOST 0.153-0.243	5	NO	NO	0.09	18								20	90	32			7	54				1						
10CR.20131.102	Cabarrus	17	SR-2610 (SHORT ST)	FROM SR-2610 (LEE ST) TO SR-2610 (GREEN HILLS DR) MILEPOST 0.243 - 0.343	5	NO	NO	0.1	18.5	6		0.05					16	100	20			7	40				1						
10CR.20131.103	Cabarrus	18	SR-2610 (GREEN HILLS DR)	FROM SR-2610 (SHORT ST) TO THE AST PAVEMENT JOINT. MILEPOST 0.343 - 0.663	5	NO	NO	0.32	18	16		0.32					16	330	80			25	100			36		1					
10CR.20131.104	Cabarrus	19	SR-1691 (N. LOOP RD)	FROM SR-1680 (WEST C ST) TO THE ROWAN COUNTY LINE PAST OVAL ST. MILEPOST 0.14 - 0.36	1	NO	NO	0.38	55				9,100							840		50	160		8								
GRAND TOTAL								16.354		3,882	673	22.98	34,350	23,650	5,380	11,500	232	15,436	6,032	9,390	750	1,887	5,090	23,650	22	684	20	31	1,300	144	72	1,530	3.8

PROJECT REFERENCE NO.	SHEET NO.
10CR.20131.31-10CR.20131.104	11

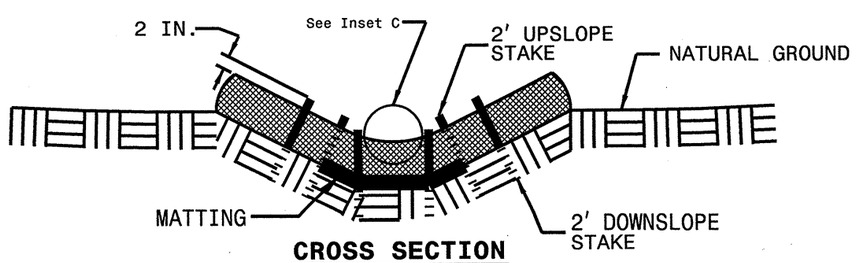
WATTLE WITH POLYACRYLAMIDE DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. CROSS SECTION.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

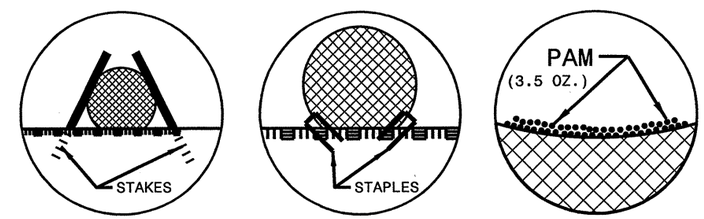
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

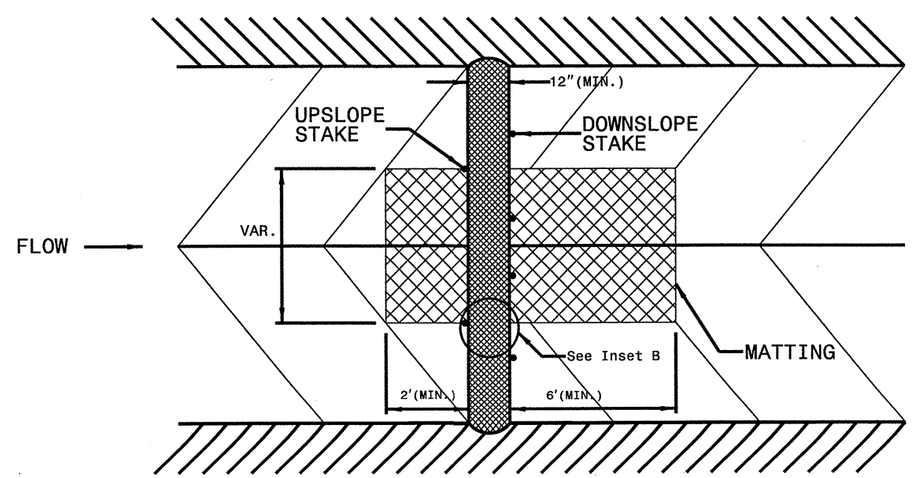
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 3.5 OUNCES OF ANIONIC OR NEUTRALLY CHARGED POLYACRYLAMIDE (PAM) OVER WATTLE WHERE WATER WILL FLOW AND AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



INSET A INSET B INSET C



TOP VIEW

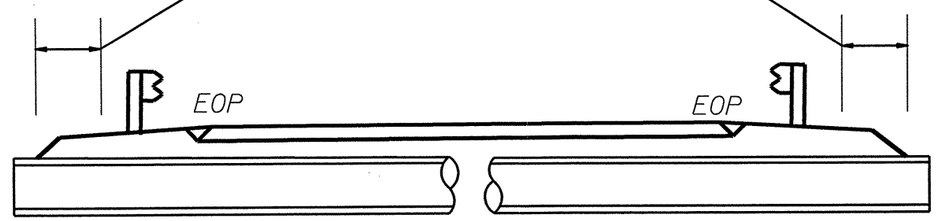
PROJECT REFERENCE NO.	SHEET NO.
10CR.10131.31, etc	12

EROSION CONTROL DETAIL

NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle or Silt Fence

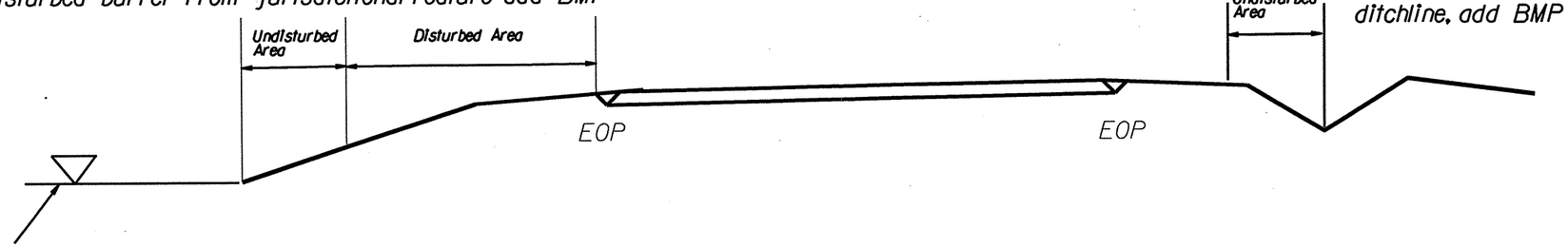
< 5' - 10' Undisturbed buffer add BMP



Pipe/Culvert

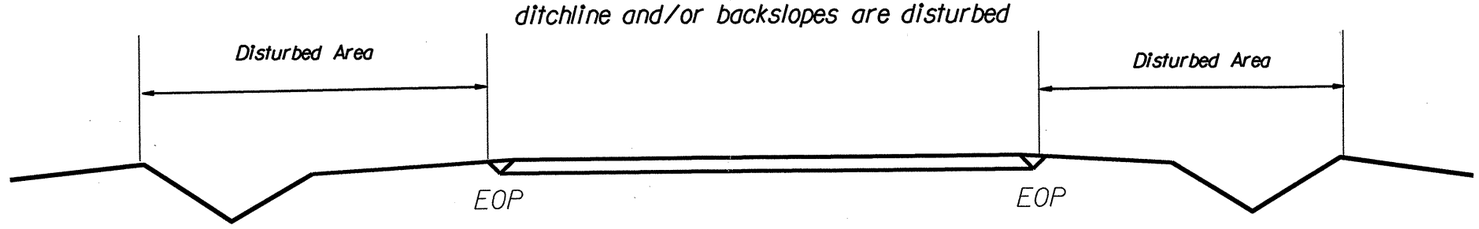
< 5' - 10' Undisturbed buffer from jurisdictional feature add BMP

< 5' - 10' Undisturbed buffer from ditchline, add BMP

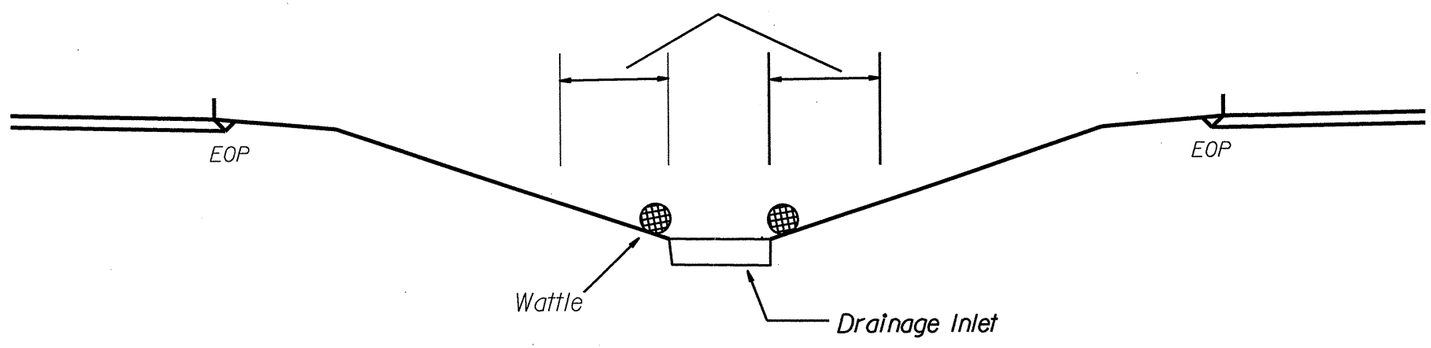


Jurisdictional Feature

Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed



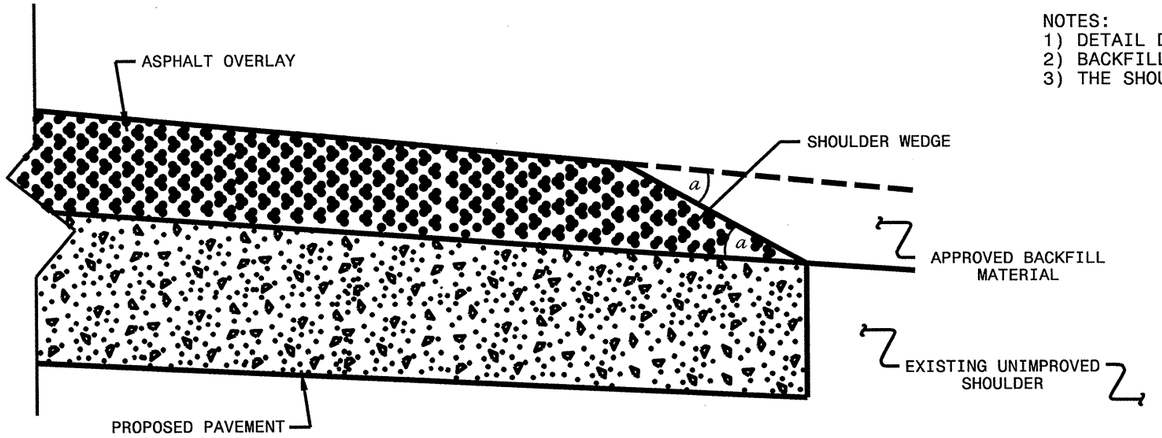
< 5' - 10' Undisturbed buffer from inlet, add wattle



NOT TO SCALE

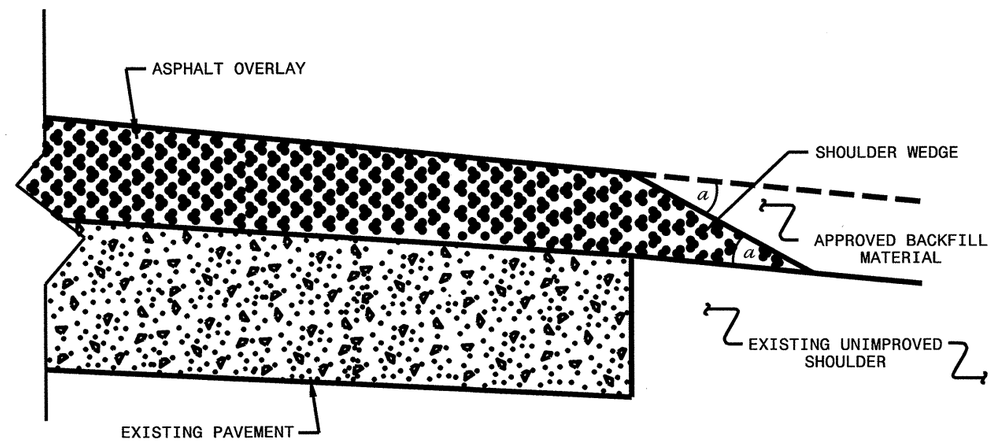
PROJECT REFERENCE NO.	SHEET NO.
10CR.10131.31- 10CR.20131.104	13

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.



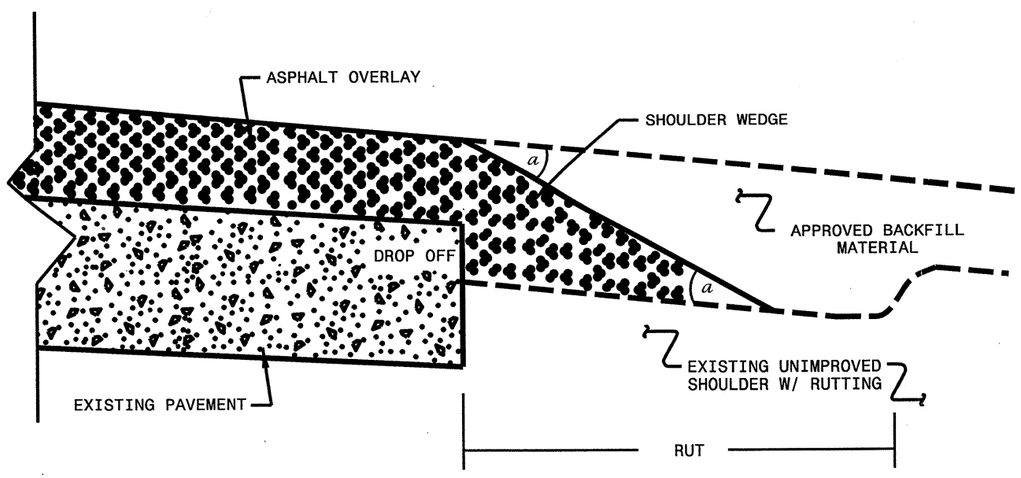
SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ Widening or with Existing Paved Shoulder having no dropoffs)



SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ NO Widening)



SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

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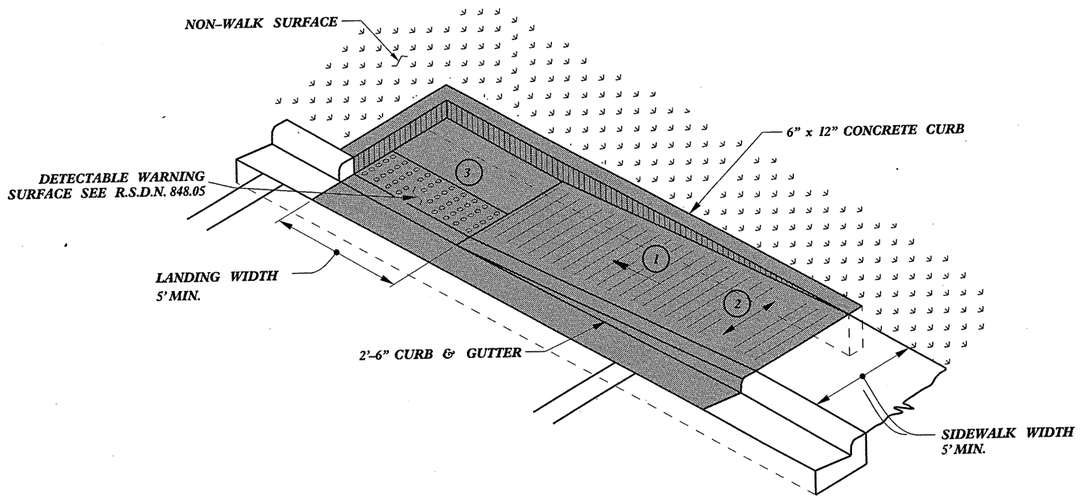
SHOULDER WEDGE DETAILS

ORIGINAL BY: T.SPELL DATE: 7-19-11
MODIFIED BY: DATE: 10/16/12
CHECKED BY: DATE:
FILE SPEC.: s:usr/details/stand/shoulder-wedgedetail.dgn

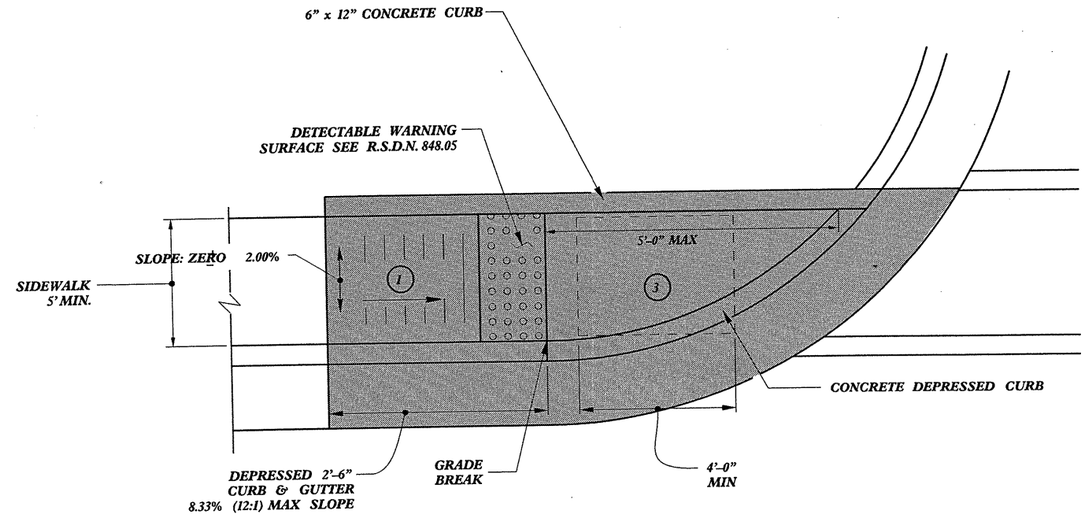
$$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$

PROJECT REFERENCE NO.	SHEET NO.
10CL.10131.31, etc.	14

PAY LIMITS FOR CURB RAMP



TYPE 1A



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

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Office 919-707-6950 FAX 919-250-4119

CURB RAMPS

Directional Ramps

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC. stds/2012CurbRamp/CurbRampDetails.dgn

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22-MAR-2012 15:06
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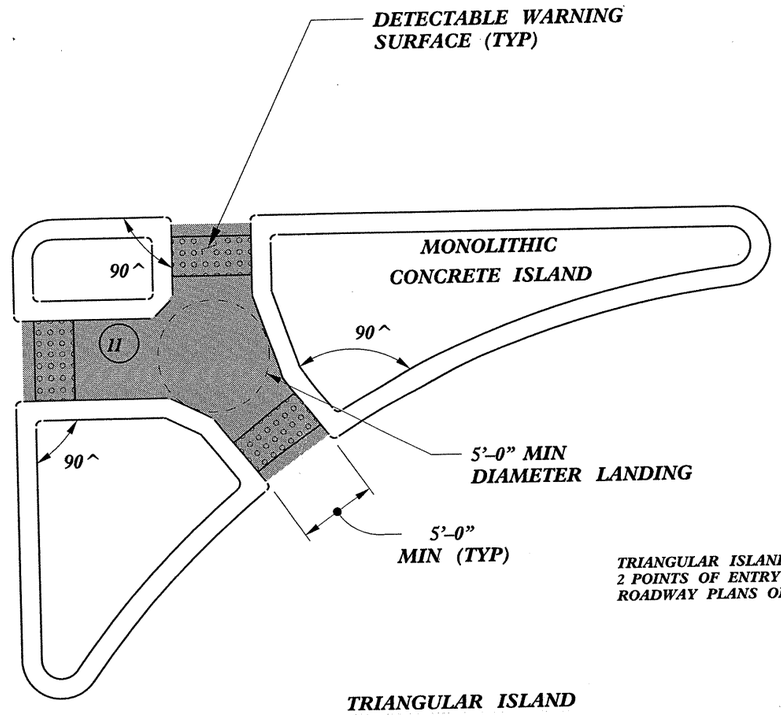
jhowerton AT CSD237501

PROJECT REFERENCE NO.	SHEET NO.
10CK.10131.31, etc	15

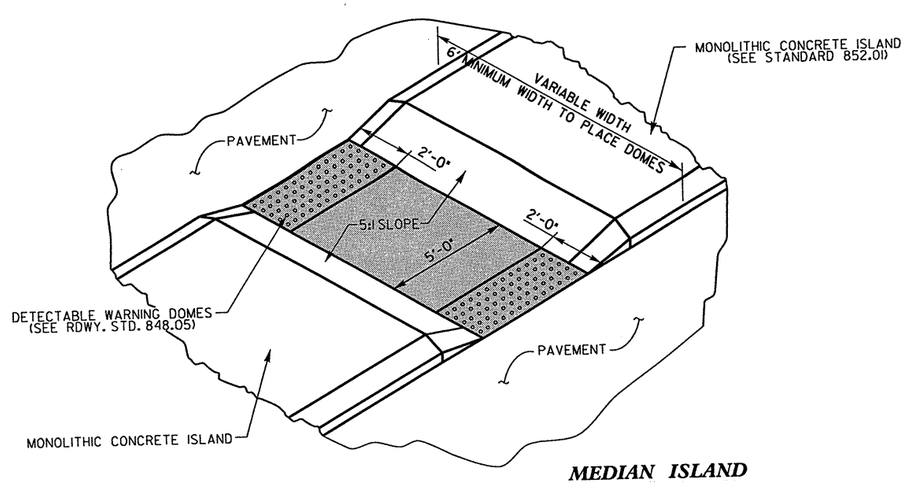
5/14/99



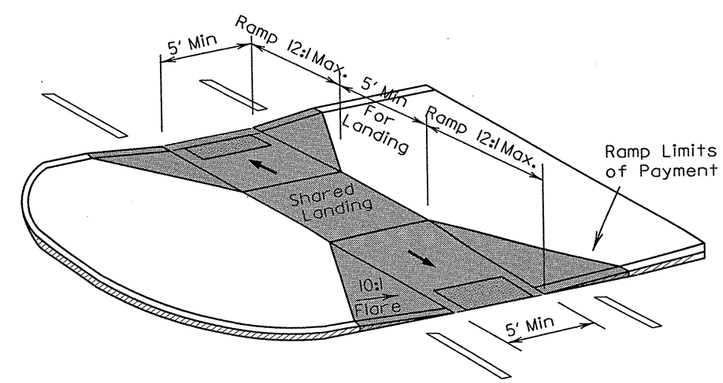
PAY LIMITS FOR 1 CURB RAMP

TRIANGULAR ISLANDS MAY BE CONSTRUCTED WITH ONLY 2 POINTS OF ENTRY AND EXIT AS SHOWN IN THE ROADWAY PLANS OR AS DIRECTED BY THE ENGINEER.

TRIANGULAR ISLAND WITH CUT THROUGH



MEDIAN ISLAND WITH CUT THROUGH



MEDIAN ISLAND CURB RAMPS

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CURB RAMPS

Median or Turn Lane Islands

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC. stds/2012CurbRamp/CurbRampDetails.dgn

$$$$SYSTIME$$$$
$$$$DGN$$$$
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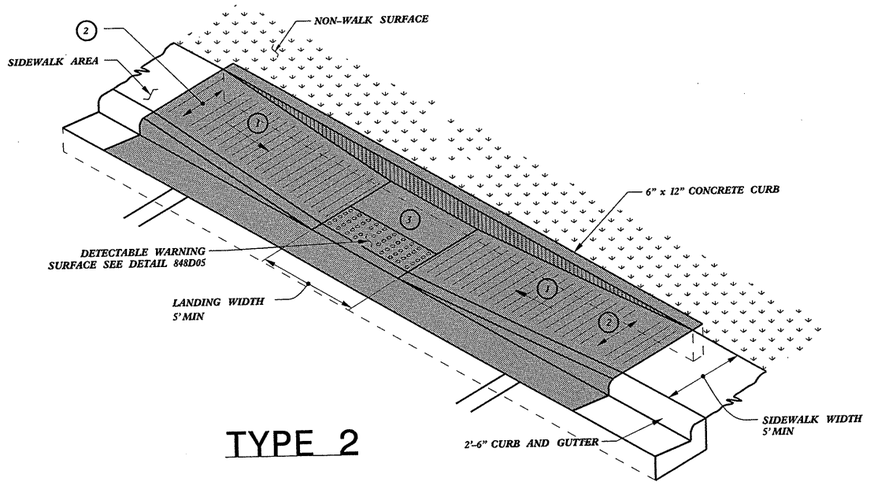
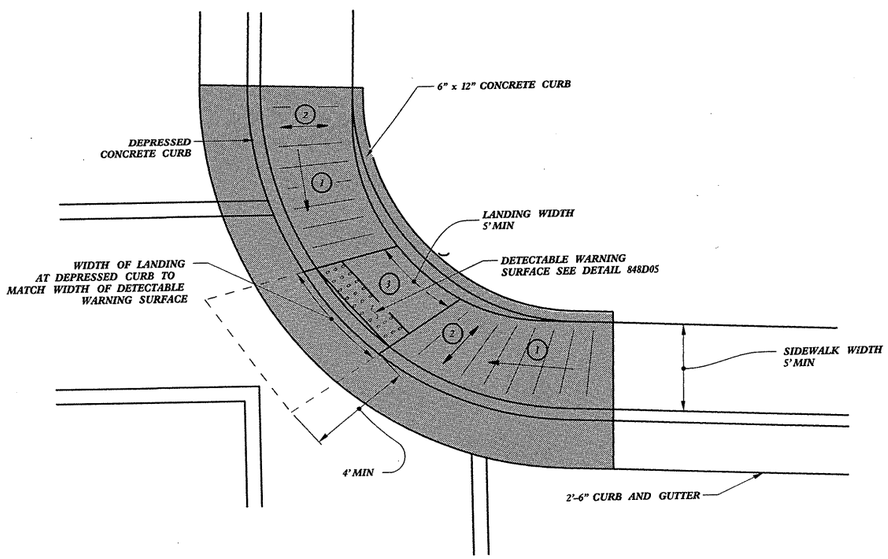
PROJECT REFERENCE NO.	SHEET NO.
10CK.10131.31, etc	16



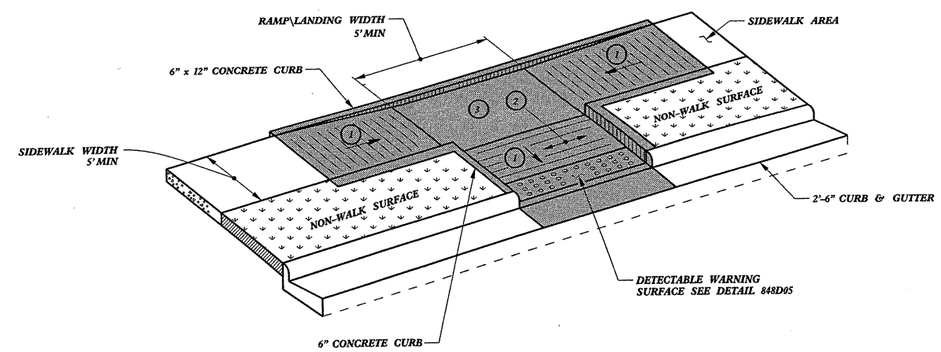
TYPE 2

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

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CURB RAMPS

Parallel Ramps

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC. stds/2012CurbRamp/CurbRampDetails.dgn

5/14/99
22-MAR-2012 15:07
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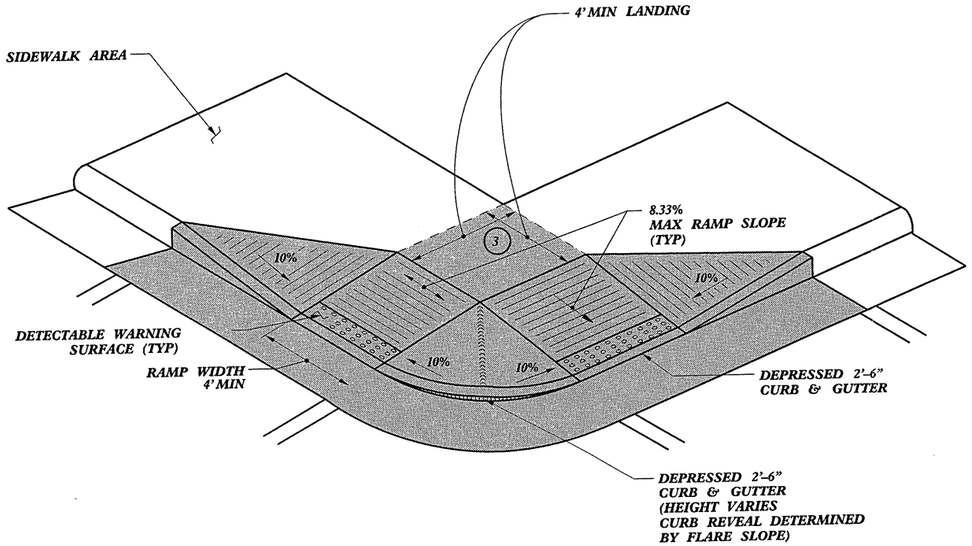
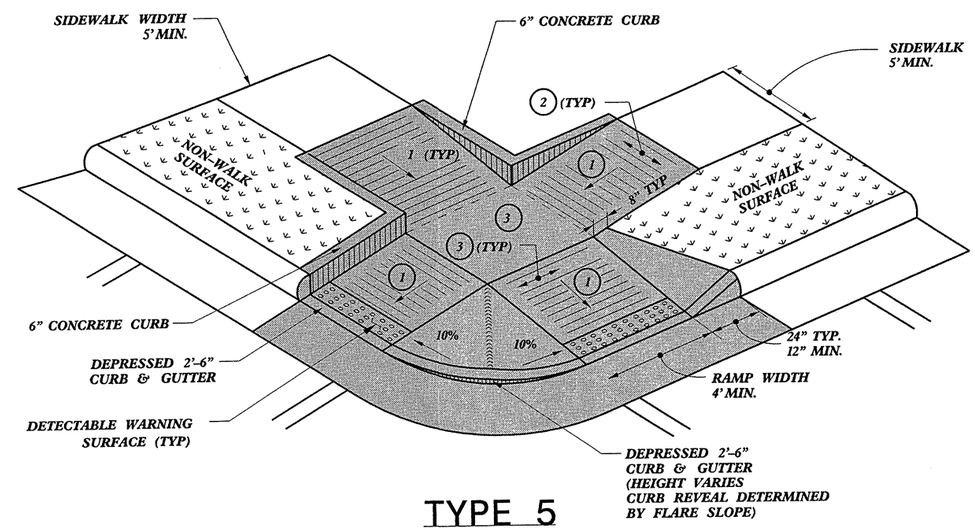
jhowerton AT CSD23760

PROJECT REFERENCE NO.	SHEET NO.
10CK.10131.31, etc	17

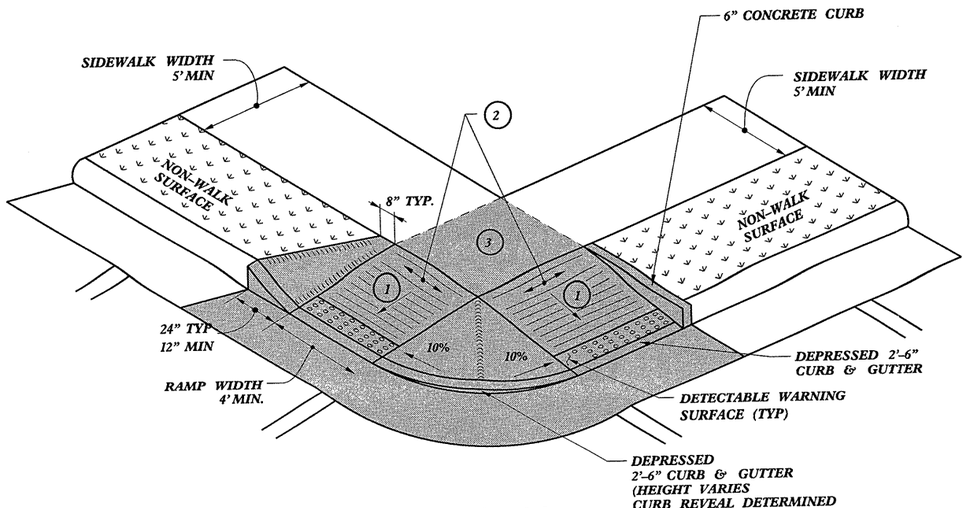
PAY LIMITS FOR CURB RAMP



TYPE 4



TYPE 5



TYPE 4A

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

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CURB RAMPS

Shared Landing

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: stds/2012CurbRamp/CurbRampDetails.dgn

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22-MAR-2012 15:08
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