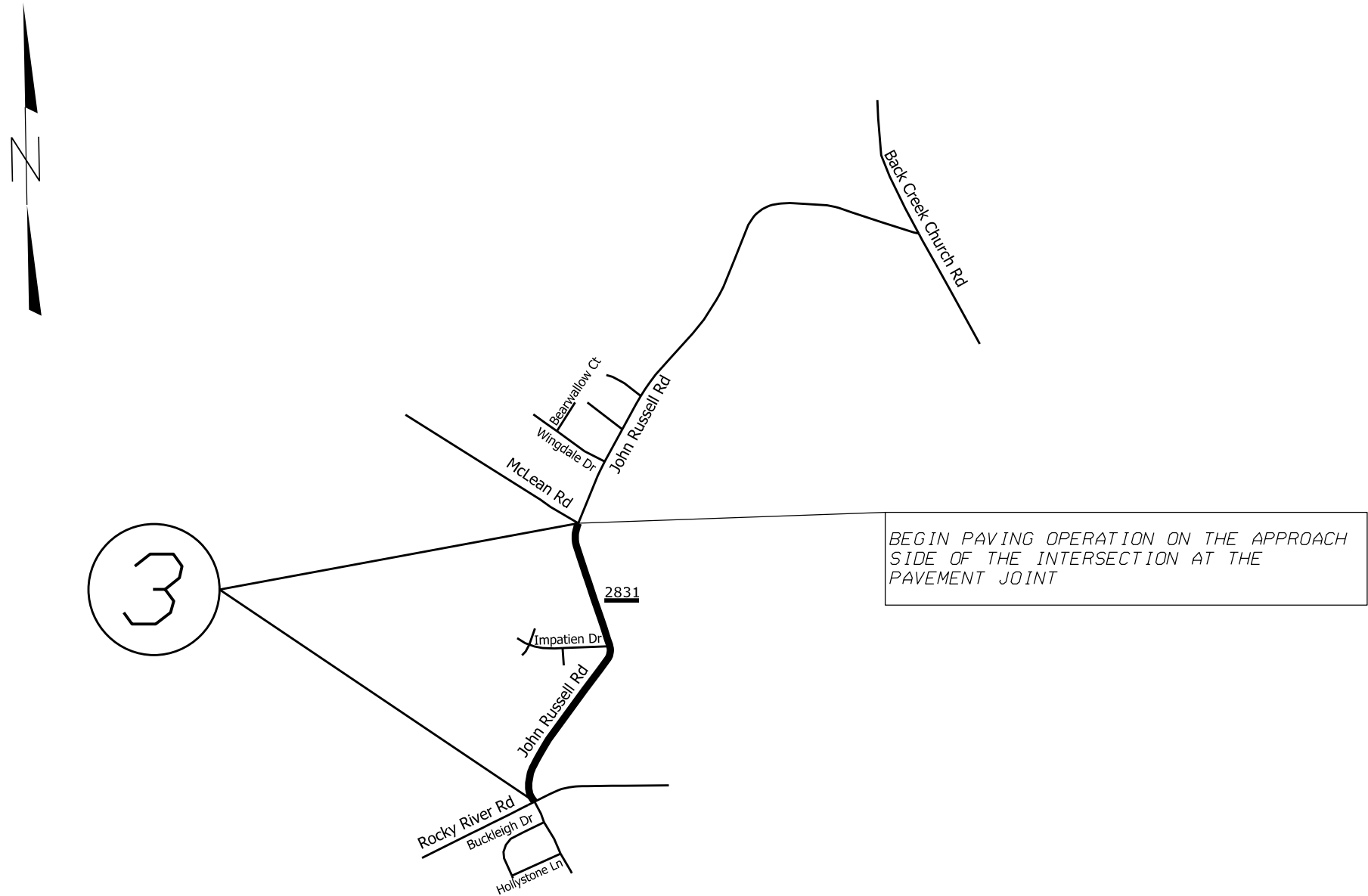


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO. 2023CPT.J0.08.J060I 2023CPT.J0.08.2060I			



MAP

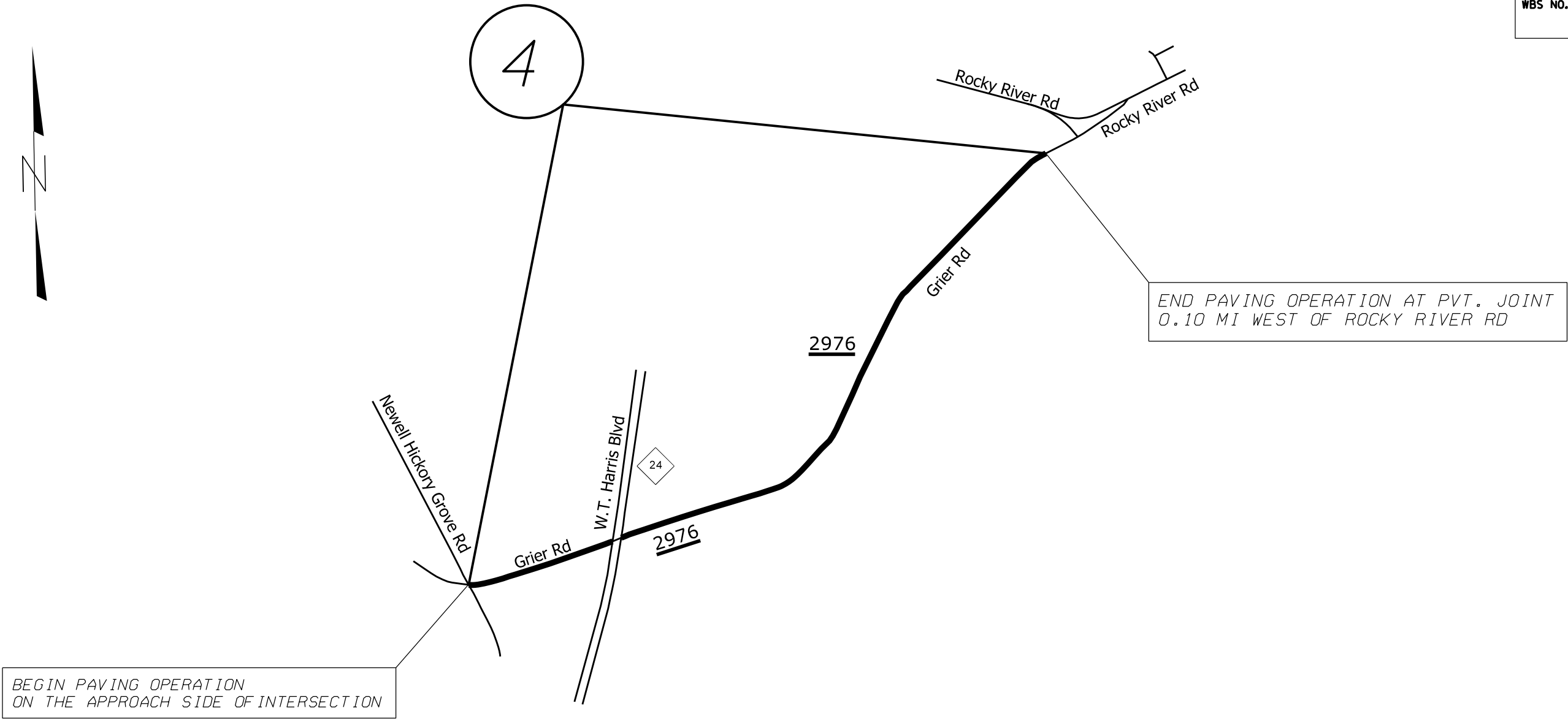
3 SR 2831 JOHN RUSSELL ROAD

DESCRIPTION

FROM PVT. JOINT AT McLEAN ROAD TO ROCKY RIVER ROAD

2023 MECKLENBURG COUNTY RESURFACING CONTRACT 2			
SCALE	-NA-		REVISIONS
DATE	10/22		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2023CPT.I0.08.I060I 2023CPT.I0.08.2060I		



MAP

4 SR 2976 GRIER ROAD

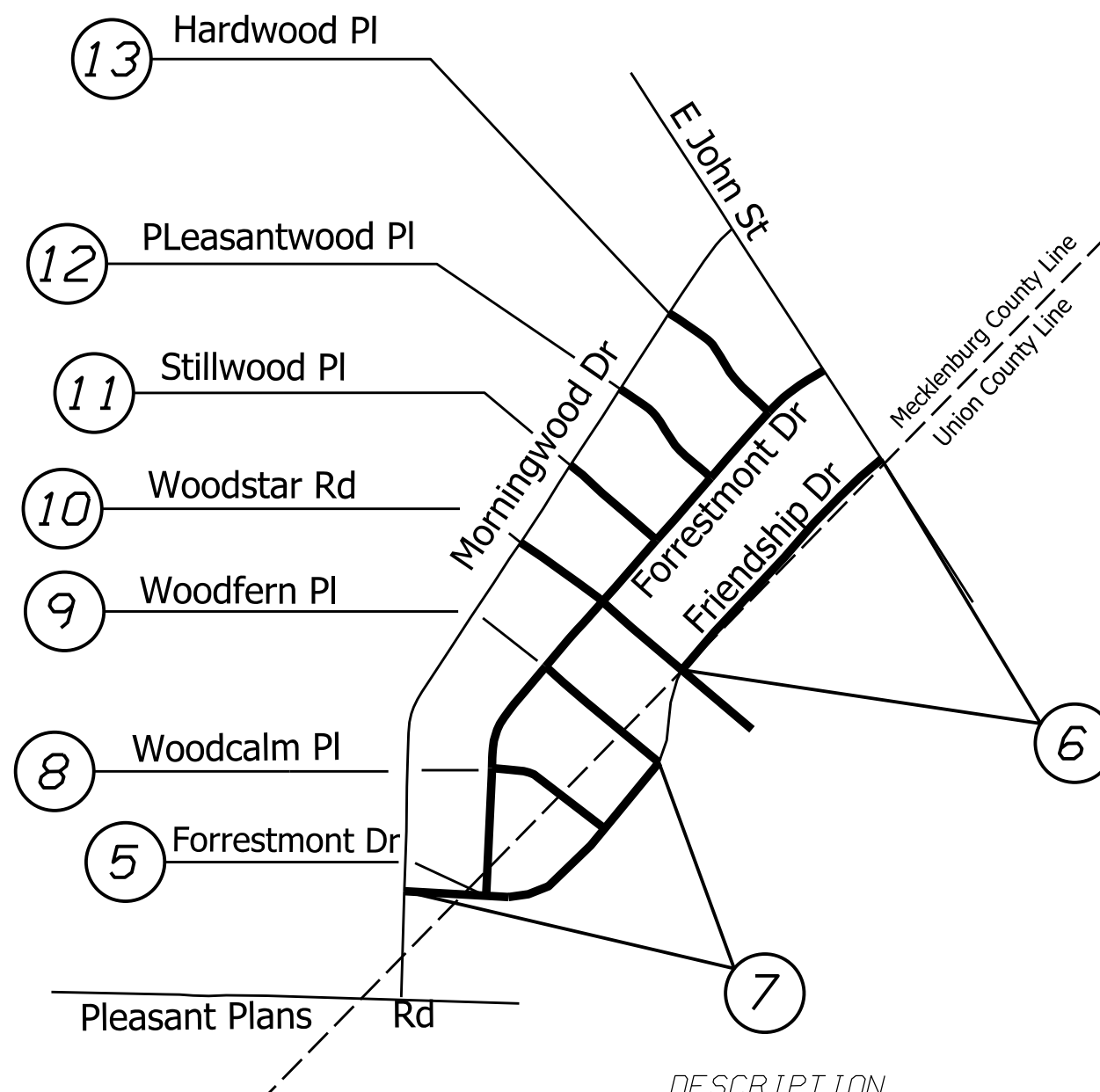
DESCRIPTION

FROM NEWELL HICKORY GROVE RD TO
PVT. JOINT WEST OF ROCKY RIVER ROAD

2023 MECKLENBURG COUNTY RESURFACING CONTRACT 2			
SCALE	-1A-	REVISIONS	
DATE	10/22		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2023CPT.J0.08.J0601 2023CPT.J0.08.20601		



EASTWOOD FOREST SUBDIVISION

MAP

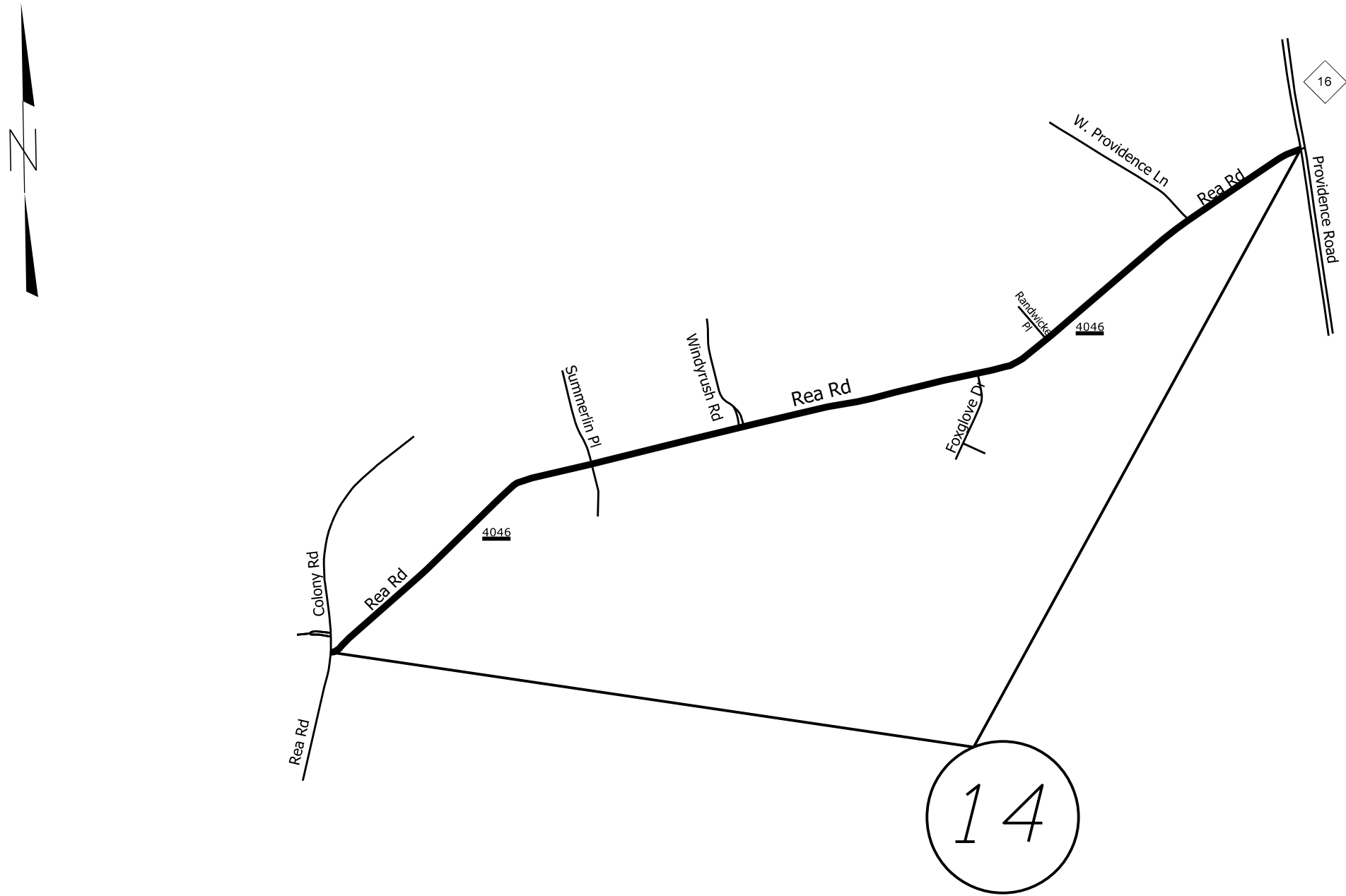
DESCRIPTION

#5 SR 3554 FORRESTMONT DRIVE	FROM E. JOHN ST TO FRIENDSHIP DR
#6 SR 3553 FRIENDSHIP DRIVE	FROM E. JOHN ST TO WOODSTAR RD
#7 SR 3562/1405 FREIENDSHIP DRIVE	FROM MORNINGWOOD DR TO WOODFERN PL
#8 SR 3561/1407 WOODCALM PLACE	FROM FORRESTMONT DR TO FRIENDSHIP DR.
#9 SR 3560/1405 WOODFERN PLACE	FROM FORRESTMONT DR TO FRIENSHIP DR.
#10 SR 3559/2846 WOODSTAR ROAD	FROM MORNINGWOOD DR TO END OF MAINTENANCE
#11 SR 3558 STILLWOOD PLACE	FROM MORNINGWOOD DR TO FORRESTMONT DR
#12 SR 3557 PLEASANTWOOD PLACE	FROM MORNINGWOOD DR TO FORRESTMONT DR
#13 SR 3556 HARDWOOD PLACE	FROM MORNINGWOOD DR TO FORRESTMONT DR

2023 MECKLENBURG COUNTY
RESURFACING CONTRACT 2

SCALE	-NA-		REVISIONS	
DATE	10/22			
DWG. BY	JHE			
DESIGN BY	JHE			
APPROVED				

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO. 2023CPT.10.08.10601 2023CPT.10.08.20601			



MAP

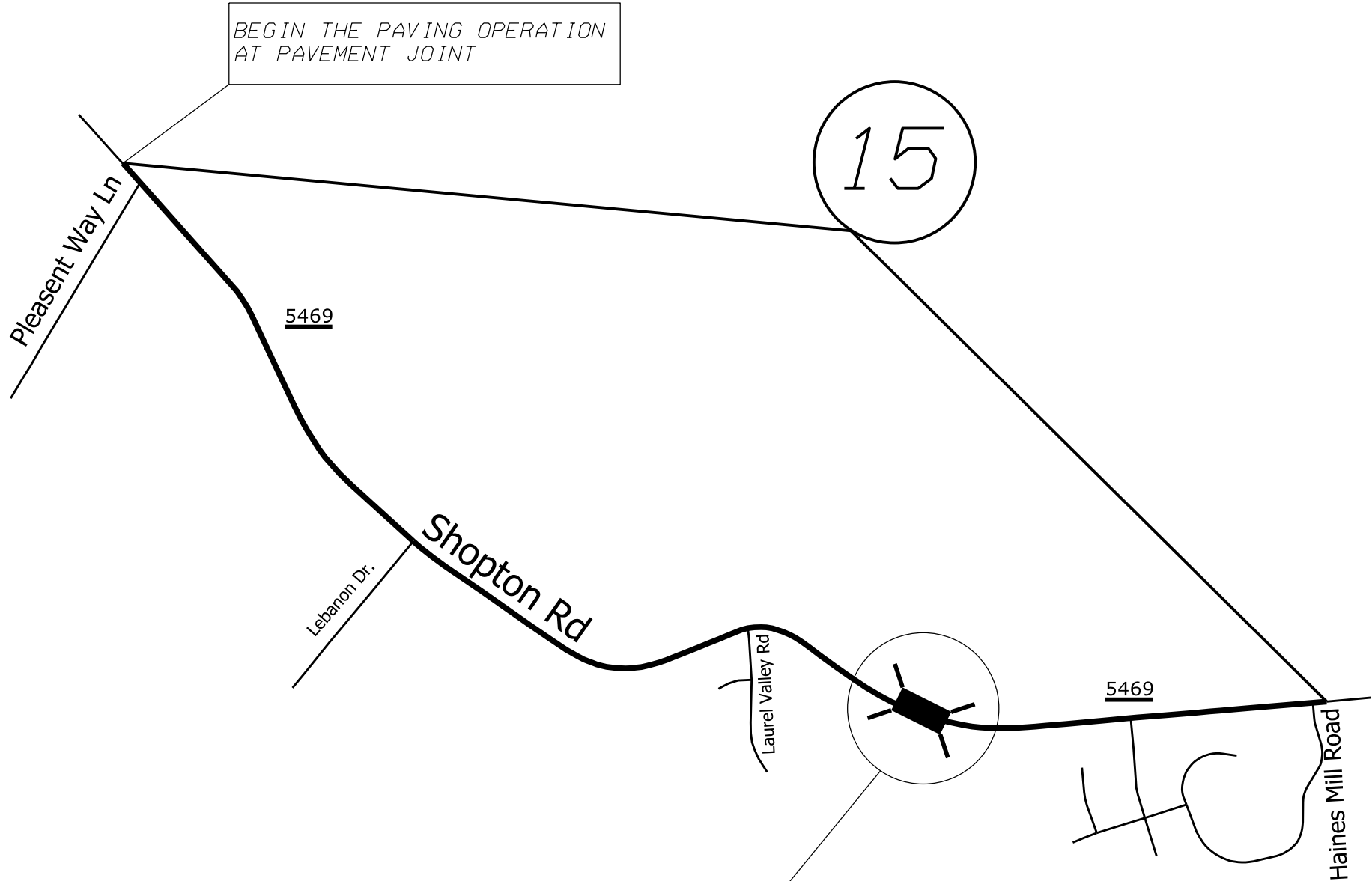
14 SR 4046 REA ROAD

DESCRIPTION

FROM PROVIDENCE ROAD TO COLONY ROAD

2023 MECKLENBURG COUNTY RESURFACING CONTRACT 2			
SCALE	-NA-		REVISIONS
DATE	10/22		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2023CPT.10.08.10601 2023CPT.10.08.20601		



NOTE :

THE PAVING OPERATION IS TO PAVE UP TO THE BRIDGE APPROACHES OMITTING THE RESURFACING OF THE BRIDGE DECK.

THE MAX LOAD FOR BRIDGE IS 23 TONS, THE CONTRACTOR IS NOT TO CROSS THE BRIDGE STRUCTURE WITH ANY EQUIPMENT OR LOADS THAT EXCEED THIS WEIGHT LIMIT.

MAP

15 SR 5469 SHOPTON ROAD

DESCRIPTION

FROM PLEASANT WAY LANE TO HAINES MILL ROAD

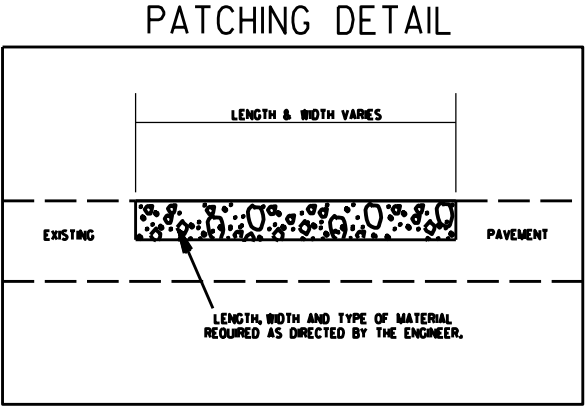
2023 MECKLENBURG COUNTY
RESURFACING CONTRACT 2

SCALE	-NA-
DATE	10/22
DWG. BY	JHE
DESIGN BY	JHE
APPROVED	



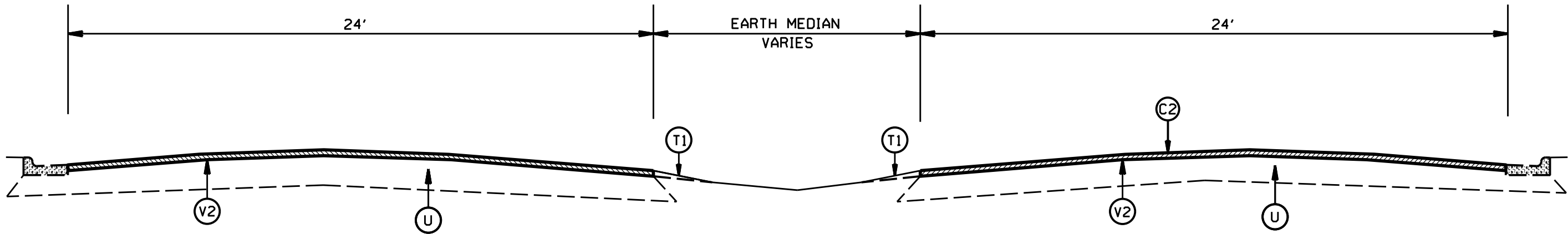
REVISIONS	

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING 1.5" DEPTH
V2	MILLING 2.0" DEPTH
V3	PROFILE MILLING 0" TO 1.5"
V4	INCIDENTAL MILLING



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2023CPT.J0.08.I060I 2023CPT.J0.08.2060I		

EB & WB ALBEMARLE ROAD



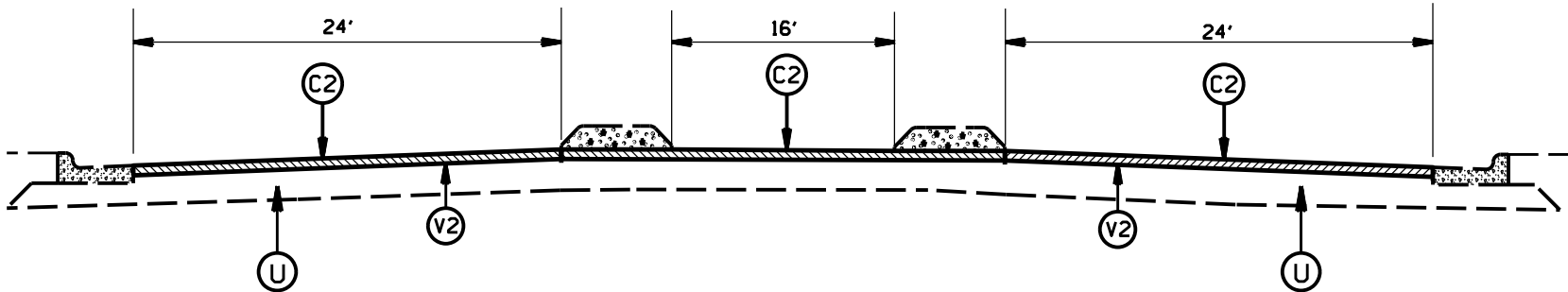
TYPICAL SECTION NO. 1

2023 MECKLENBURG COUNTY RESURFACING CONTRACT 2			
SCALE	-NA-		REVISIONS
DATE	8/22		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING 1.5" DEPTH
V2	MILLING 2.0" DEPTH
V3	PROFILE MILLING 0" TO 1.5"
V4	INCIDENTAL MILLING

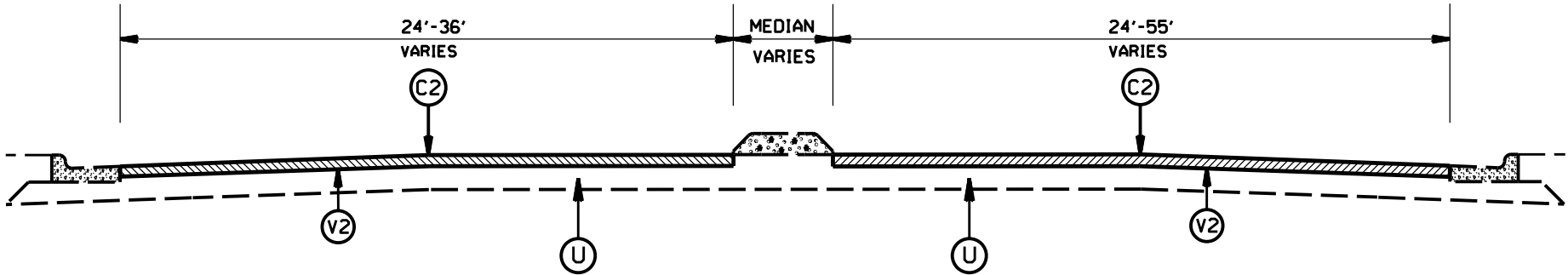
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2023CPT.J0.08.J060I 2023CPT.J0.08.2060I		

EB & WB ALBEMARLE ROAD



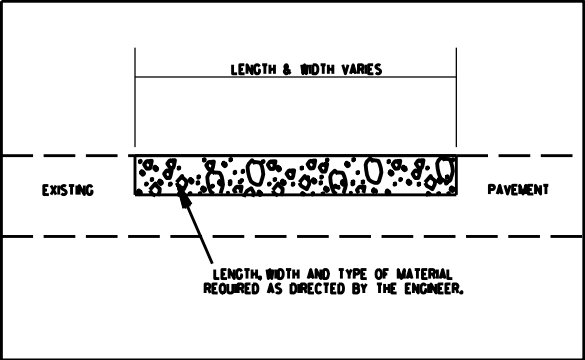
TYPICAL SECTION NO. 2

EB & WB ALBEMARLE ROAD



TYPICAL SECTION NO. 3

PATCHING DETAIL

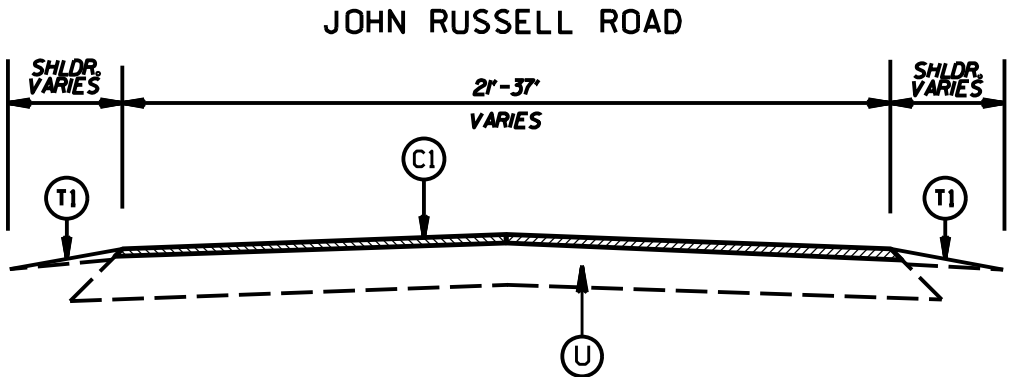


2023 MECKLENBURG COUNTY
RESURFACING CONTRACT 2

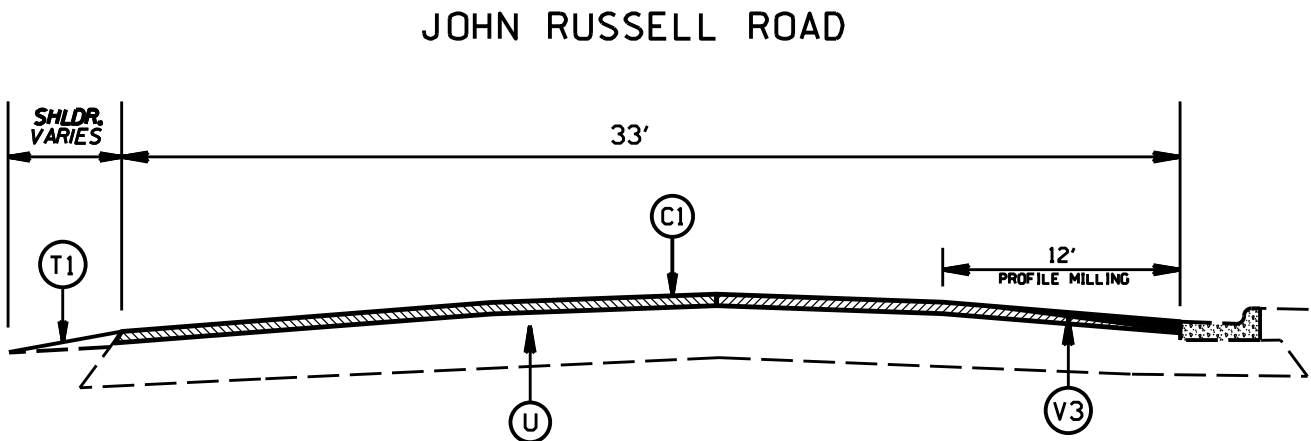
SCALE	-NA-		REVISIONS
DATE	8/22		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2023CPT.J0.08.J0601 2023CPT.J0.08.20601		

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING 1.5" DEPTH
V2	MILLING 2.0" DEPTH
V3	PROFILE MILLING 0" TO 1.5"
V4	INCIDENTAL MILLING

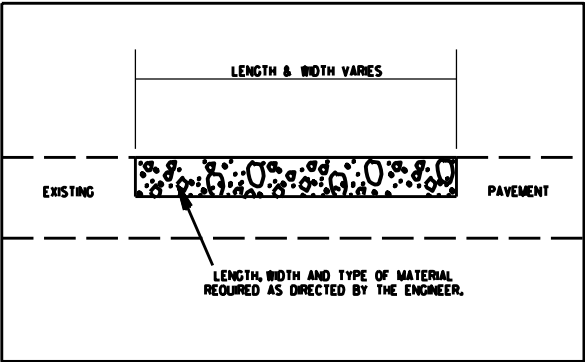


TYPICAL SECTION NO. 4



TYPICAL SECTION NO. 5

PATCHING DETAIL

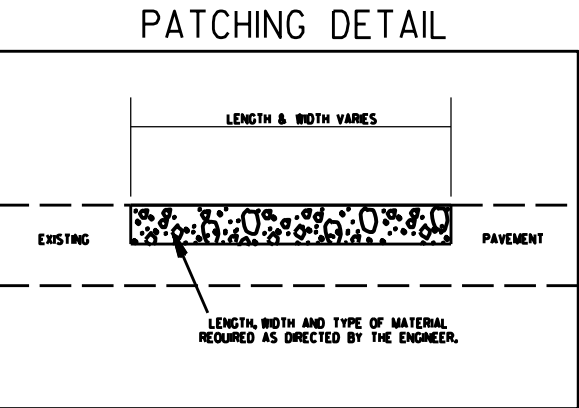


2023 MECKLENBURG COUNTY
RESURFACING CONTRACT 2

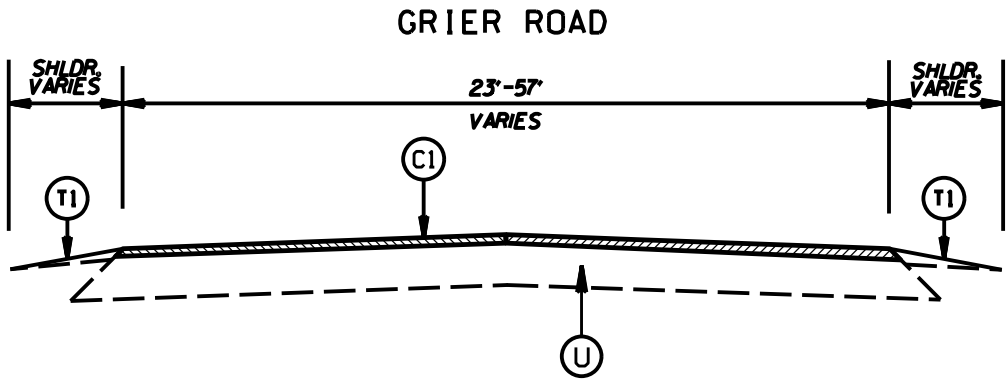
SCALE	-NA-	REVISIONS	
DATE	8/22		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			



PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING 1.5" DEPTH
V2	MILLING 2.0" DEPTH
V3	PROFILE MILLING 0" TO 1.5"
V4	INCIDENTAL MILLING



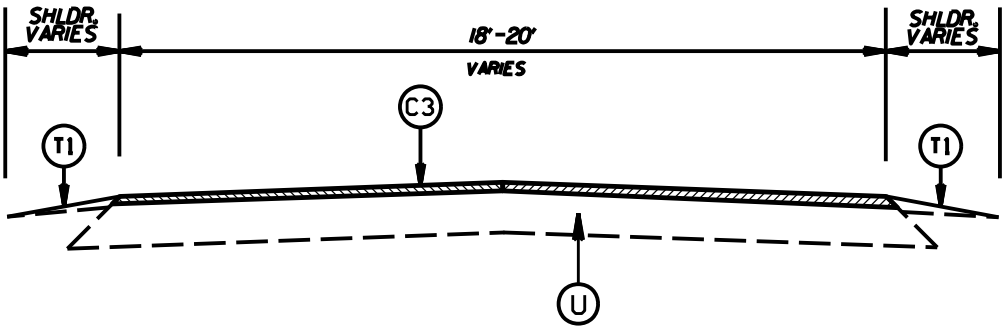
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2023CPTJ0.08J060I 2023CPTJ0.08.2060I		



TYPICAL SECTION NO. 6

EASTWOOD FOREST SUBDIVISION

FORRESTMONT DRIVE
FRIENDSHIP DRIVE
WOODCALM PLACE
WOODFERN PLACE
WOODSTAR ROAD
STILLWOOD PLACE
PLEASANTWOOD PLACE
HARDWOOD PLACE



TYPICAL SECTION NO. 7

2023 MECKLENBURG COUNTY
RESURFACING CONTRACT 2

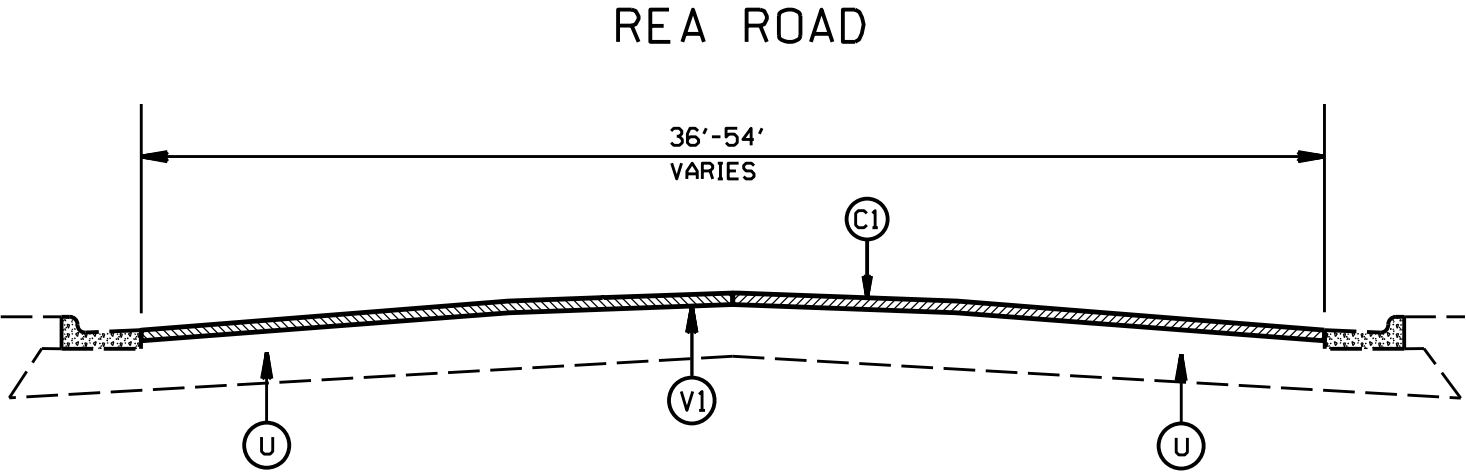
SCALE	-NA-
DATE	8/22
DWG. BY	JHE
DESIGN BY	JHE
APPROVED	



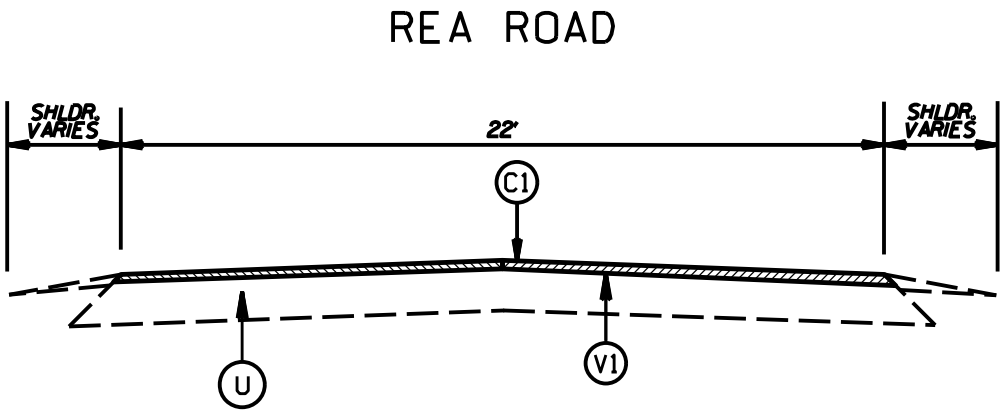
REVISIONS	

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING 1.5" DEPTH
V2	MILLING 2.0" DEPTH
V3	PROFILE MILLING 0" TO 1.5"
V4	INCIDENTAL MILLING

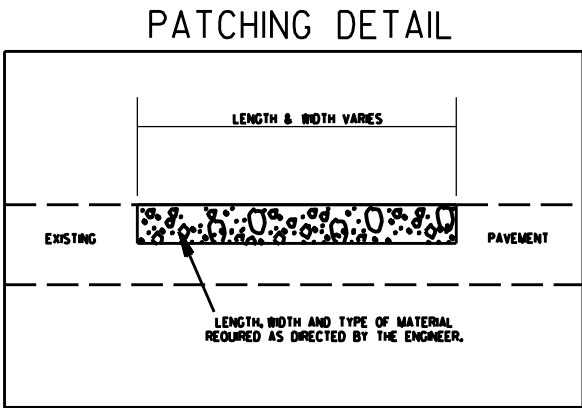
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2023CPT.J0.08.J060I 2023CPT.J0.08.2060I		



TYPICAL SECTION NO. 8



TYPICAL SECTION NO. 9



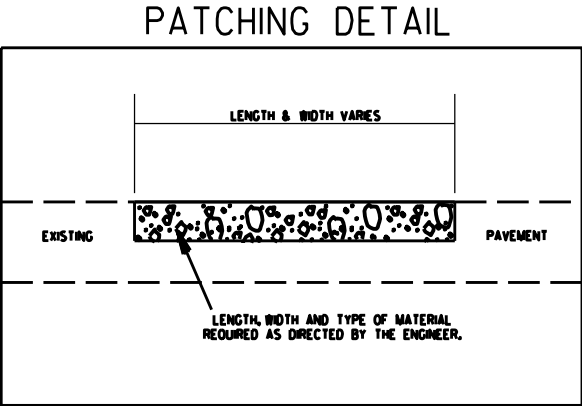
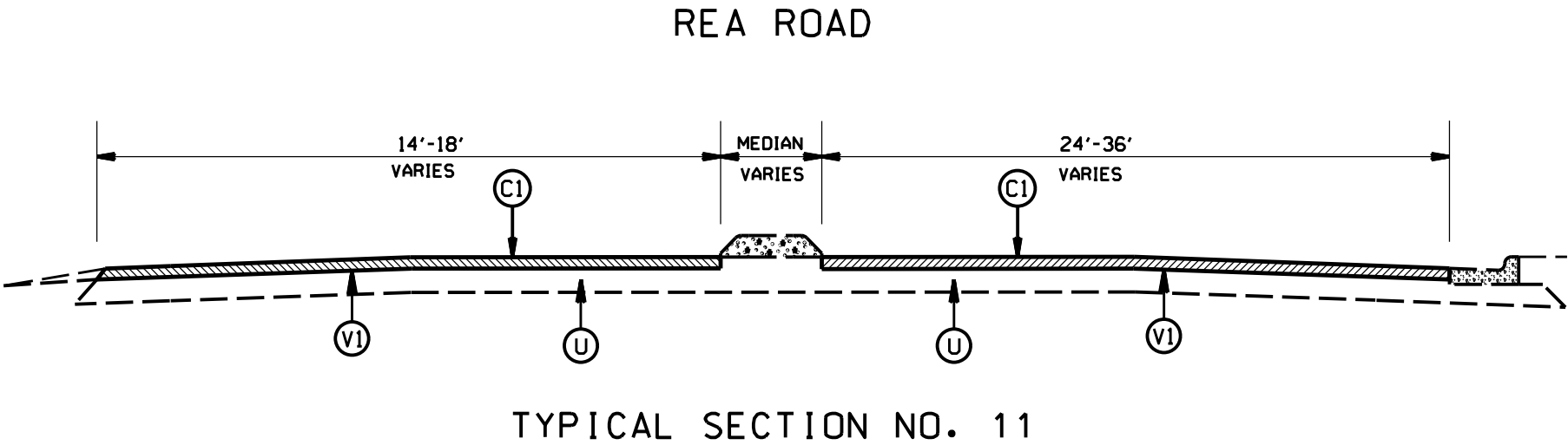
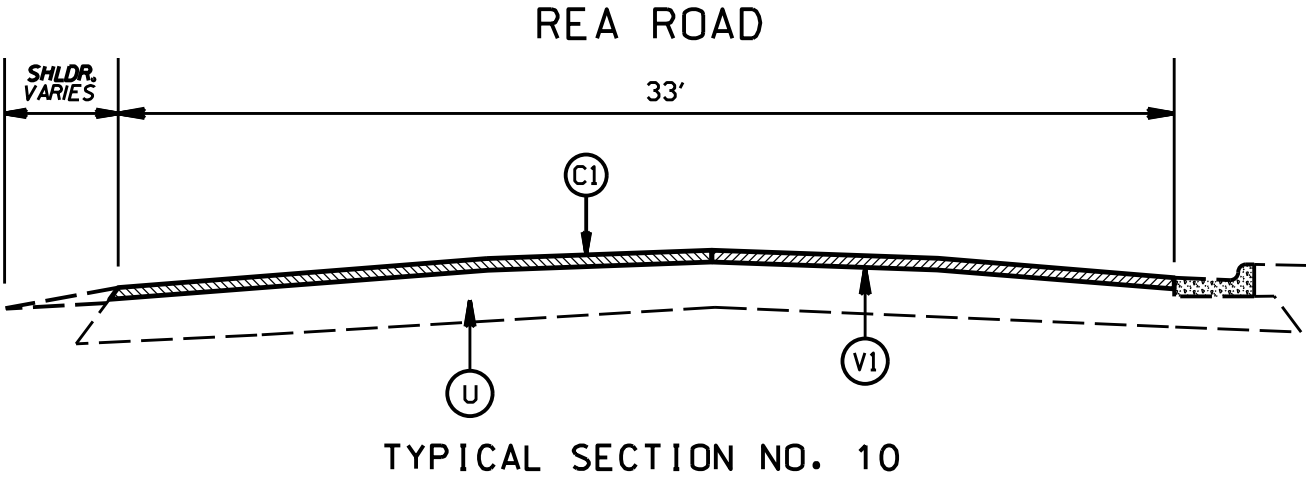
2023 MECKLENBURG COUNTY
RESURFACING CONTRACT 2

SCALE	-NA-	REVISIONS	
DATE	8/22		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			



PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING 1.5" DEPTH
V2	MILLING 2.0" DEPTH
V3	PROFILE MILLING 0" TO 1.5"
V4	INCIDENTAL MILLING

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2023CPT.J0.08.J060I 2023CPT.J0.08.2060I		



2023 MECKLENBURG COUNTY
RESURFACING CONTRACT 2

SCALE	-NA-
DATE	8/22
DWG. BY	JHE
DESIGN BY	JHE
APPROVED	

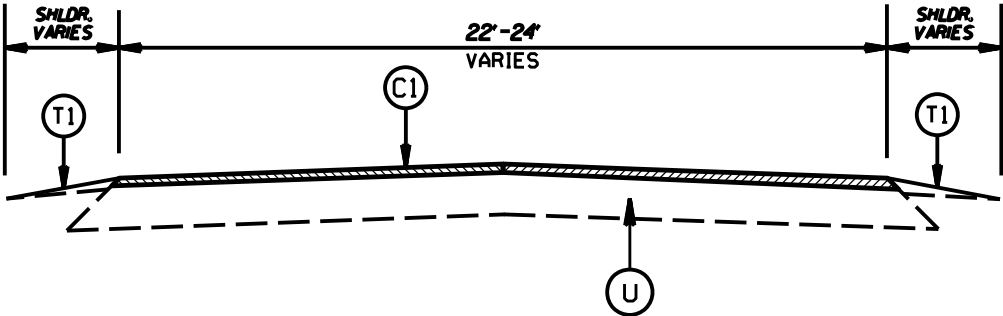


REVISIONS	

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING 1.5" DEPTH
V2	MILLING 2.0" DEPTH
V3	PROFILE MILLING 0" TO 1.5"
V4	INCIDENTAL MILLING

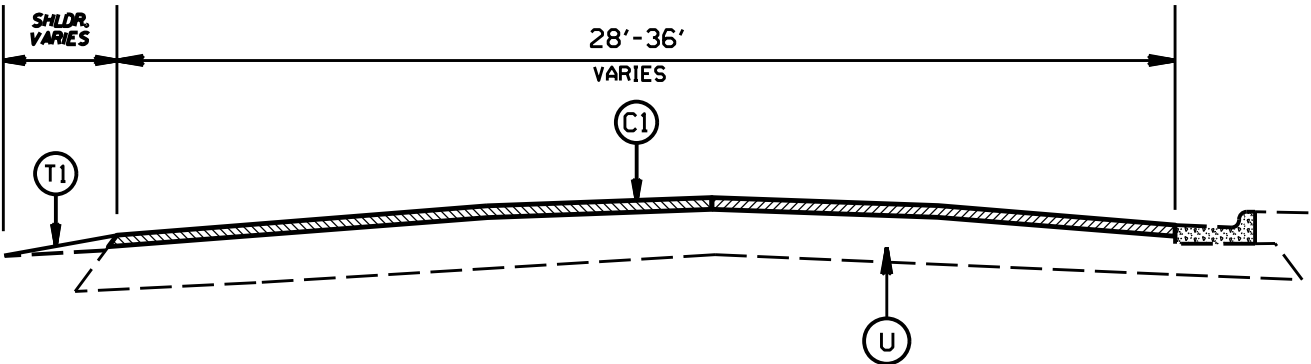
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2023CPT.J0.08.J060I 2023CPT.J0.08.2060I		

SHOPTON ROAD



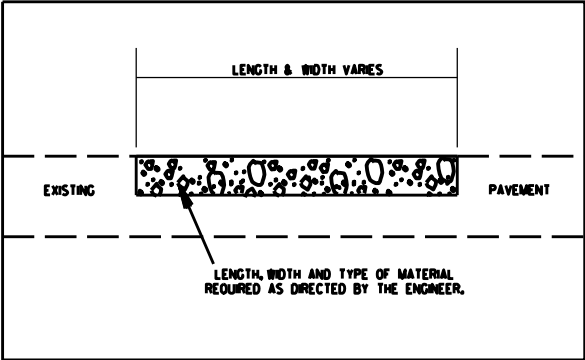
TYPICAL SECTION NO. 12

SHOPTON ROAD



TYPICAL SECTION NO. 13

PATCHING DETAIL



2023 MECKLENBURG COUNTY
RESURFACING CONTRACT 2

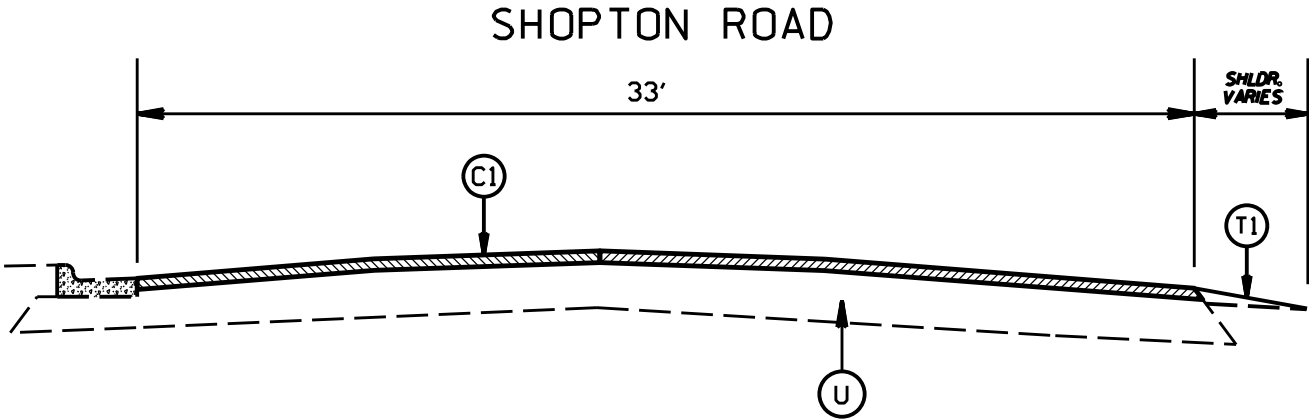
SCALE	-NA-
DATE	8/22
DWG. BY	JHE
DESIGN BY	JHE
APPROVED	



REVISIONS	

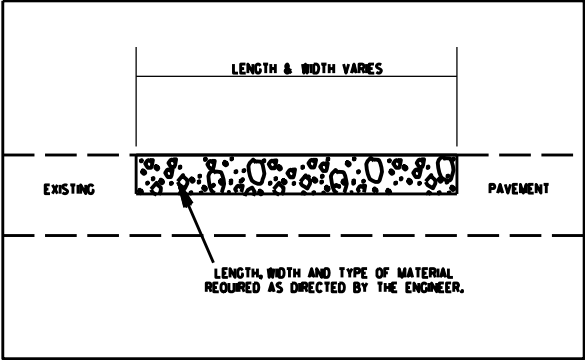
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING 1.5" DEPTH
V2	MILLING 2.0" DEPTH
V3	PROFILE MILLING 0" TO 1.5"
V4	INCIDENTAL MILLING

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2023CPT.I0.08.I060I 2023CPT.I0.08.2060I		



TYPICAL SECTION NO. 14

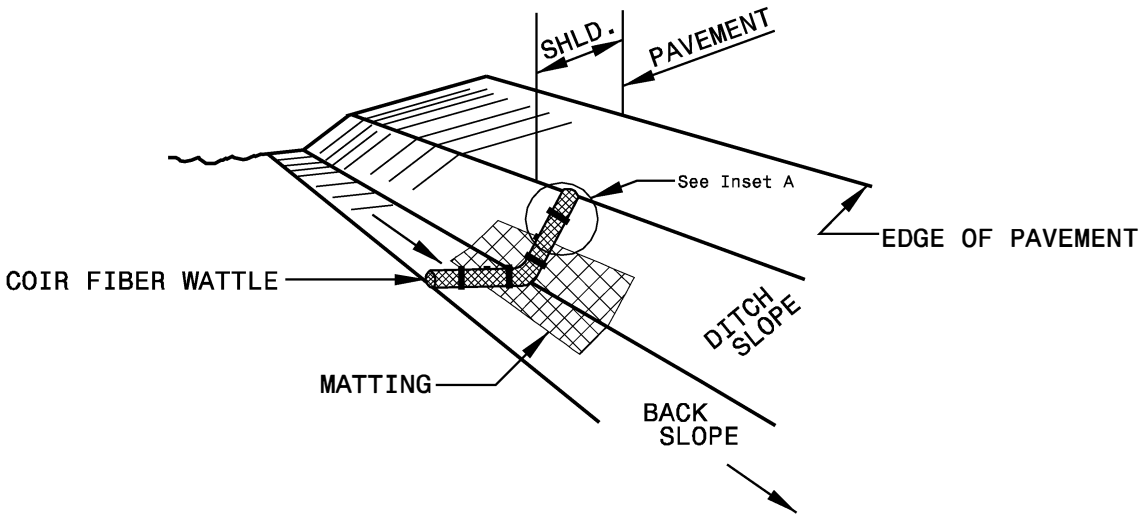
PATCHING DETAIL



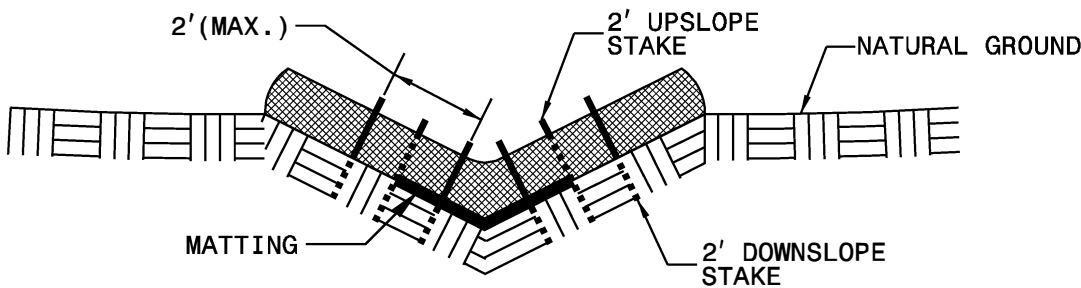
2023 MECKLENBURG COUNTY RESURFACING CONTRACT 2			
SCALE	-NA-		REVISIONS
DATE	8/22		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			

COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

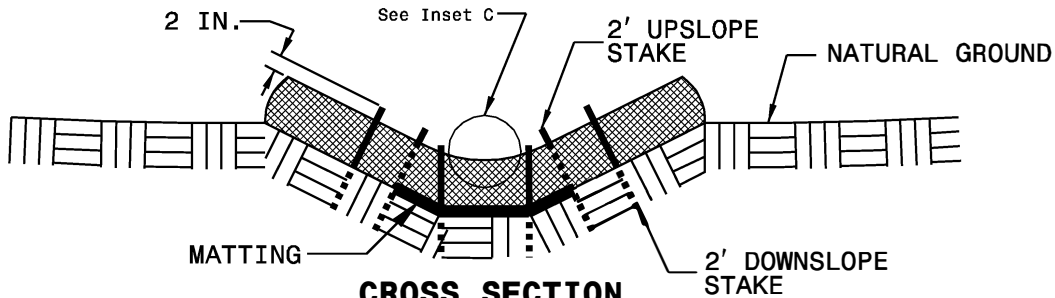
PROJECT REFERENCE NO.		SHEET NO.	
RW. SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



ISOMETRIC VIEW



**CROSS SECTION
VEE DITCH**



**CROSS SECTION
TRAPEZOIDAL DITCH**

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

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

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

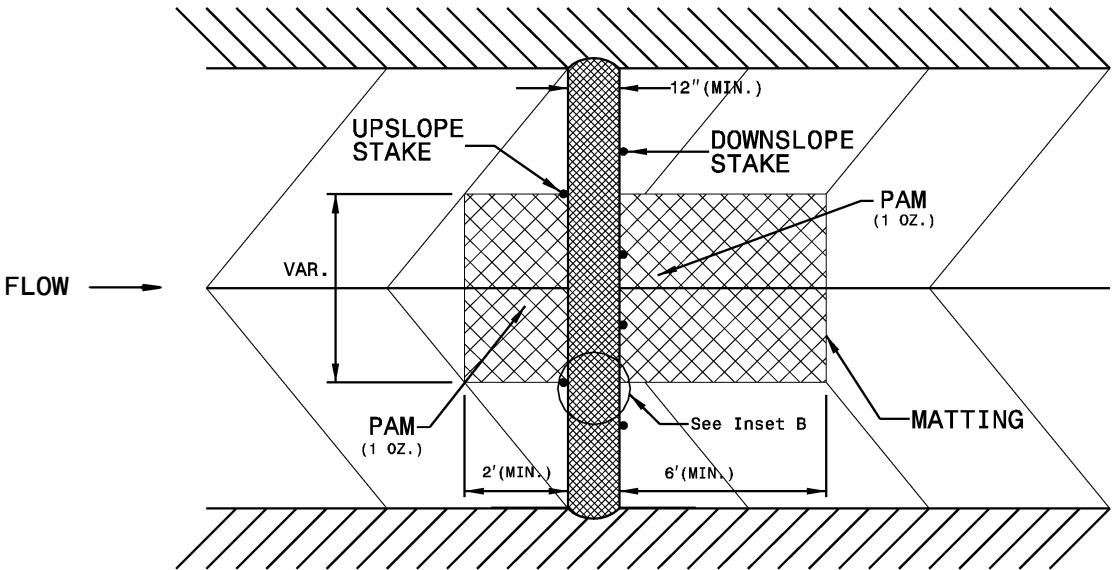
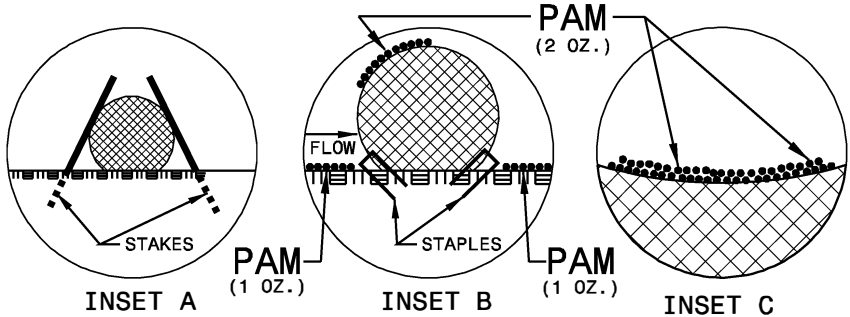
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

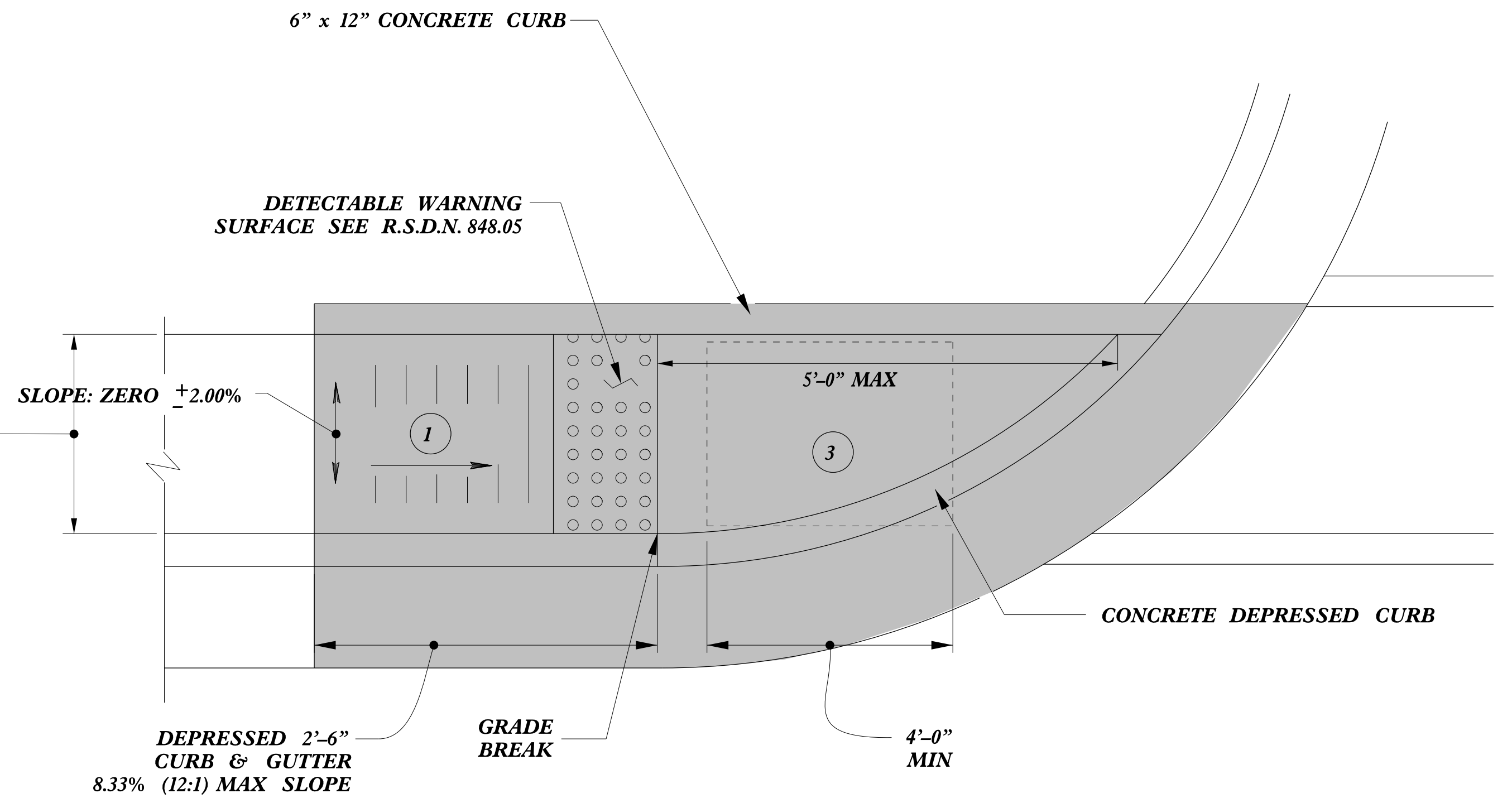
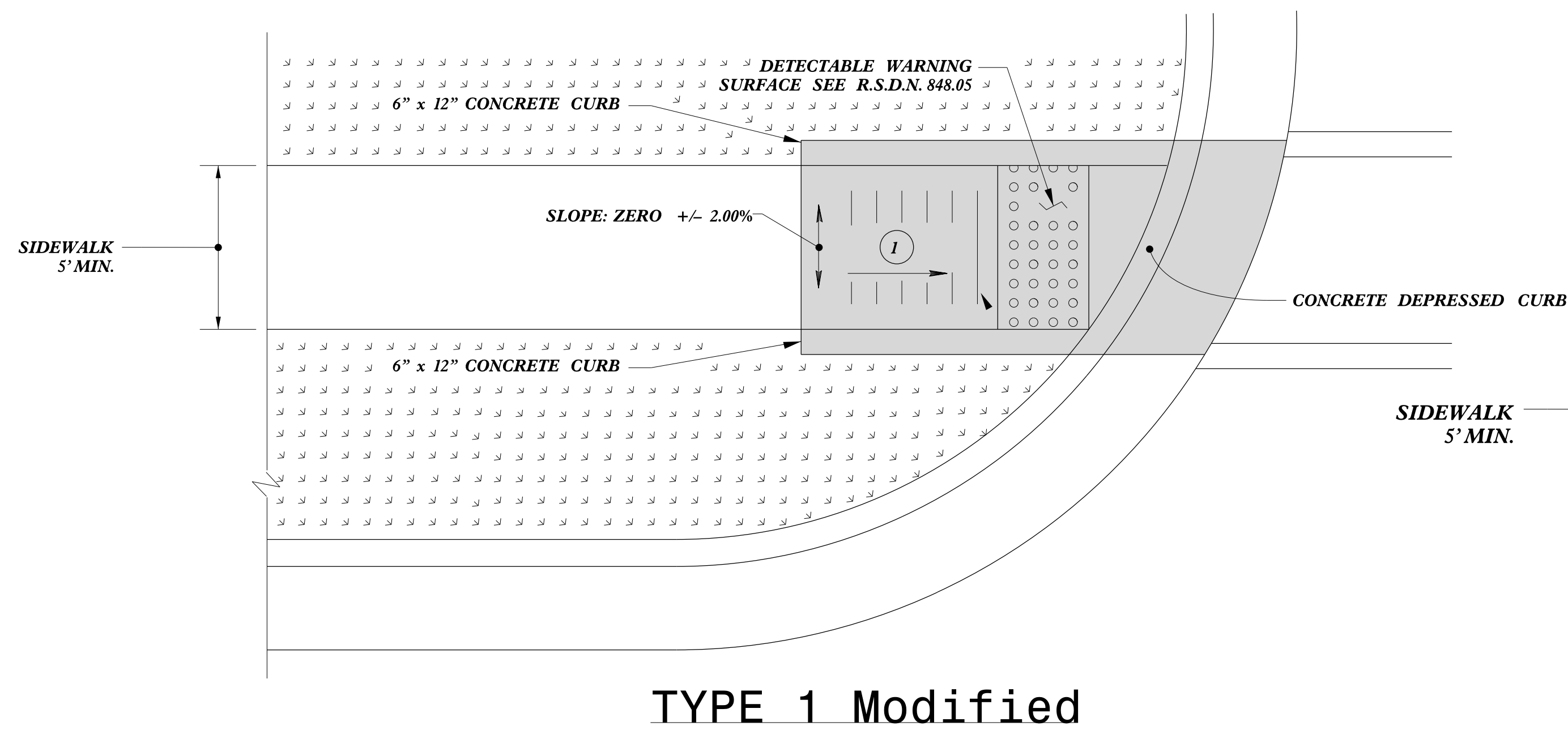
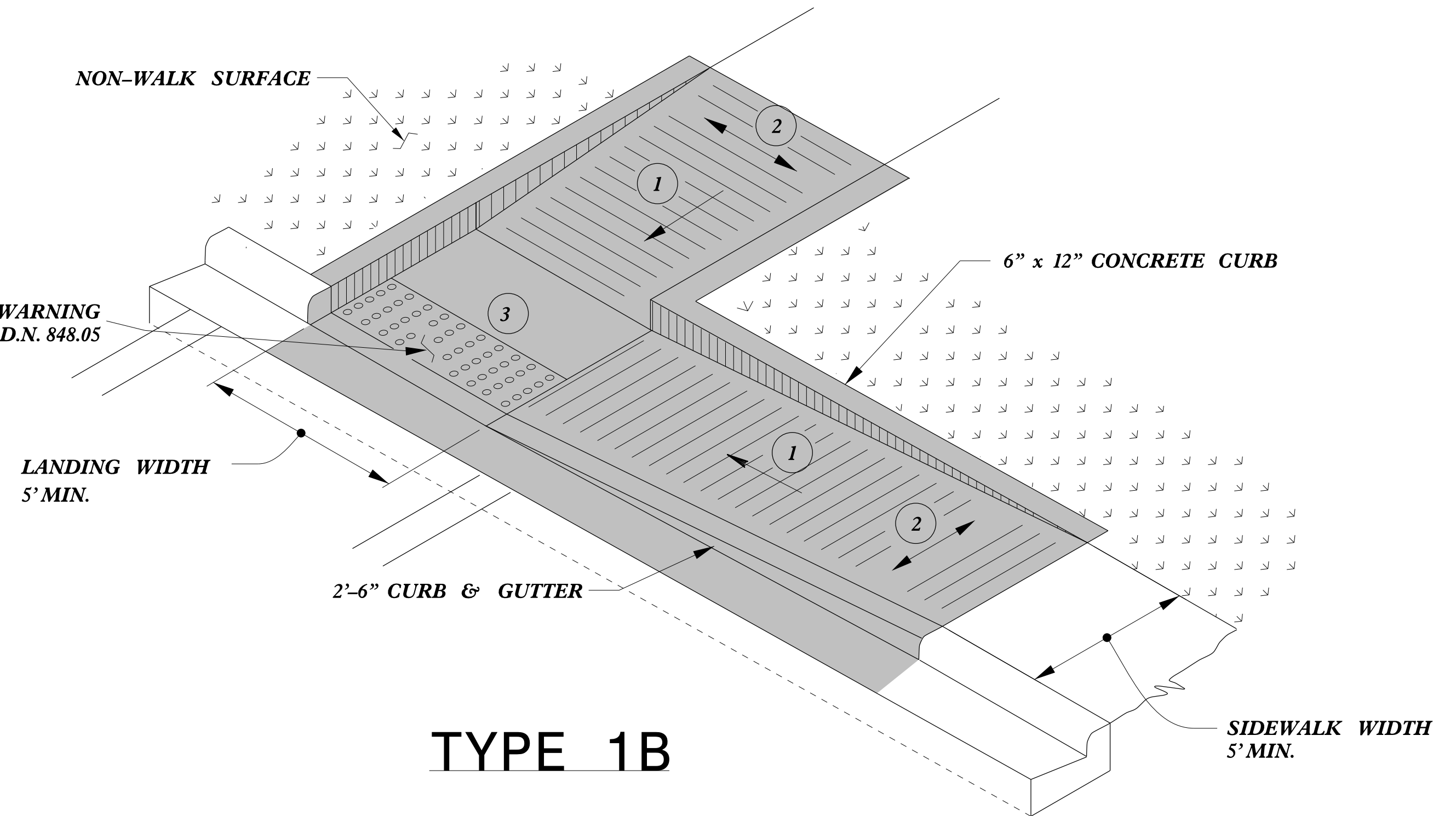
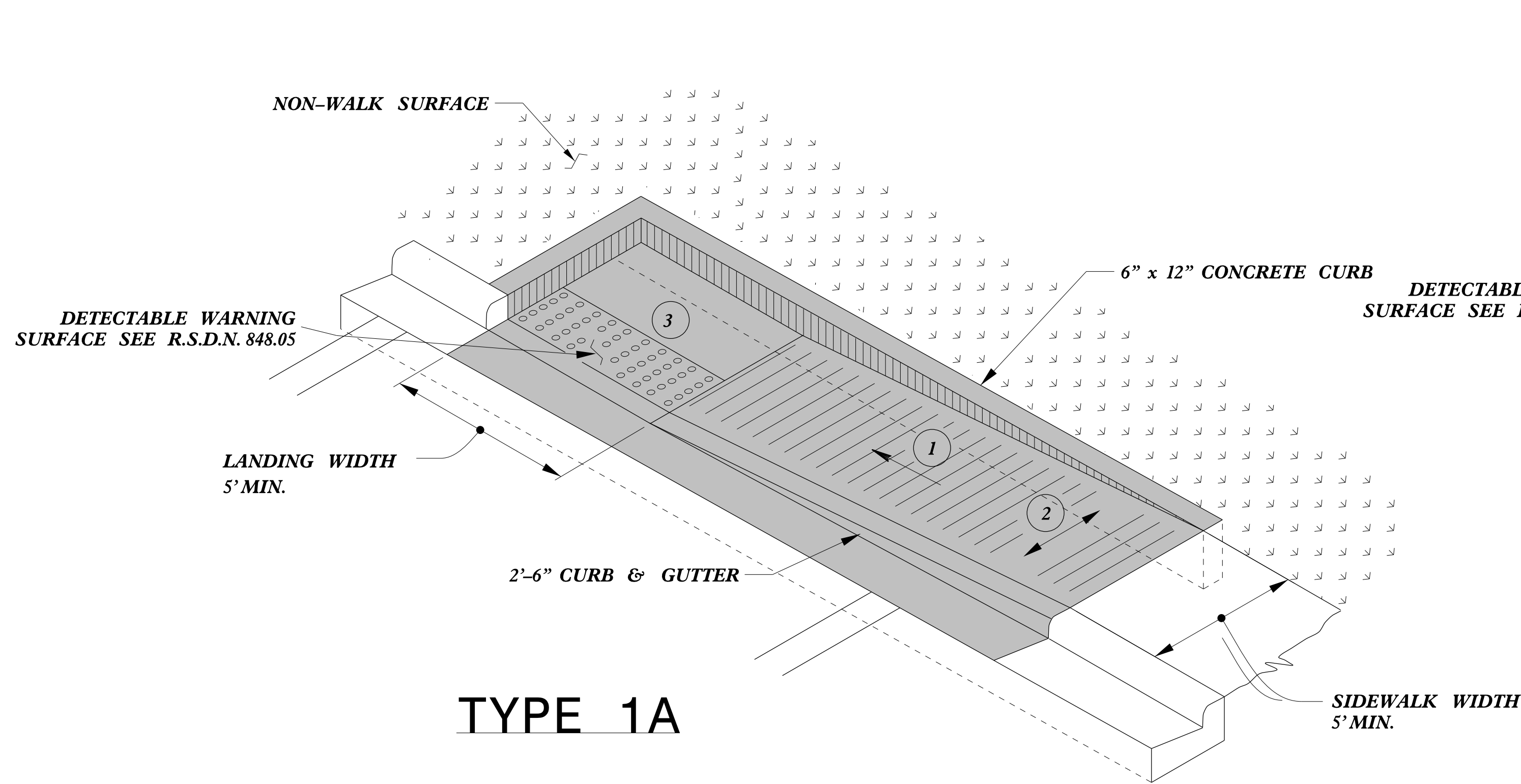
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

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 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



TOP VIEW



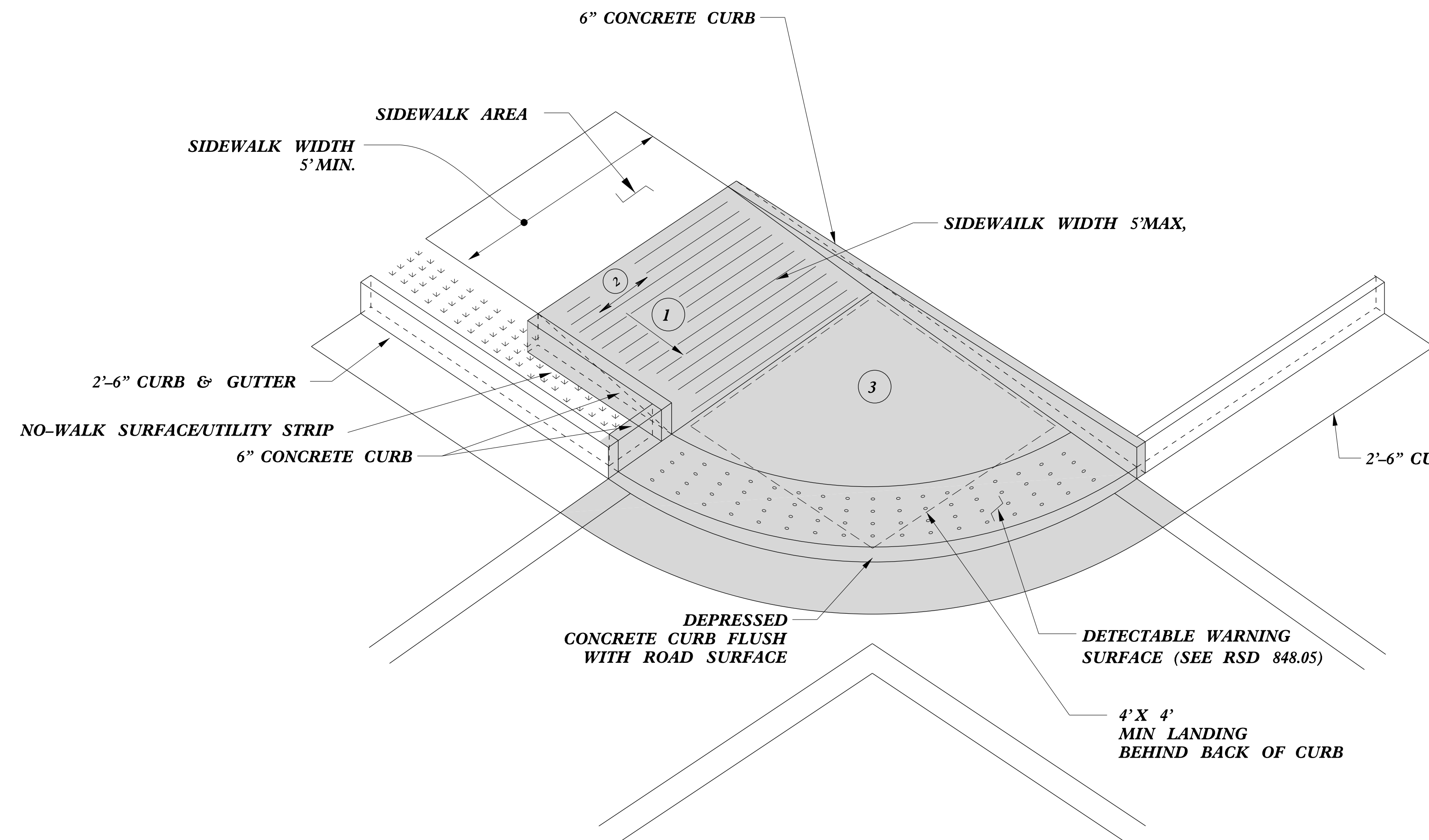
- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

PAY LIMITS FOR 1 CURB RAMP

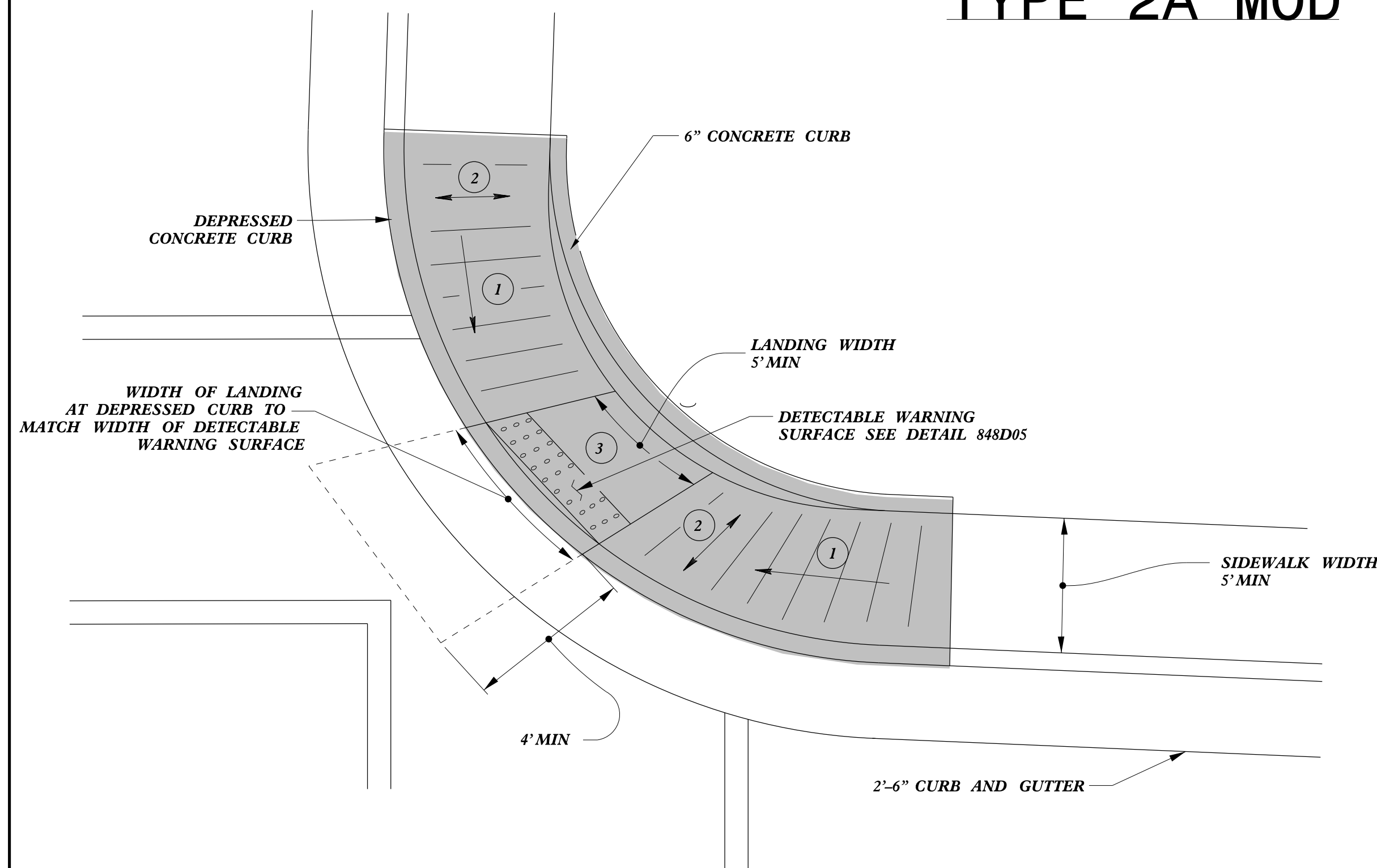
REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
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	



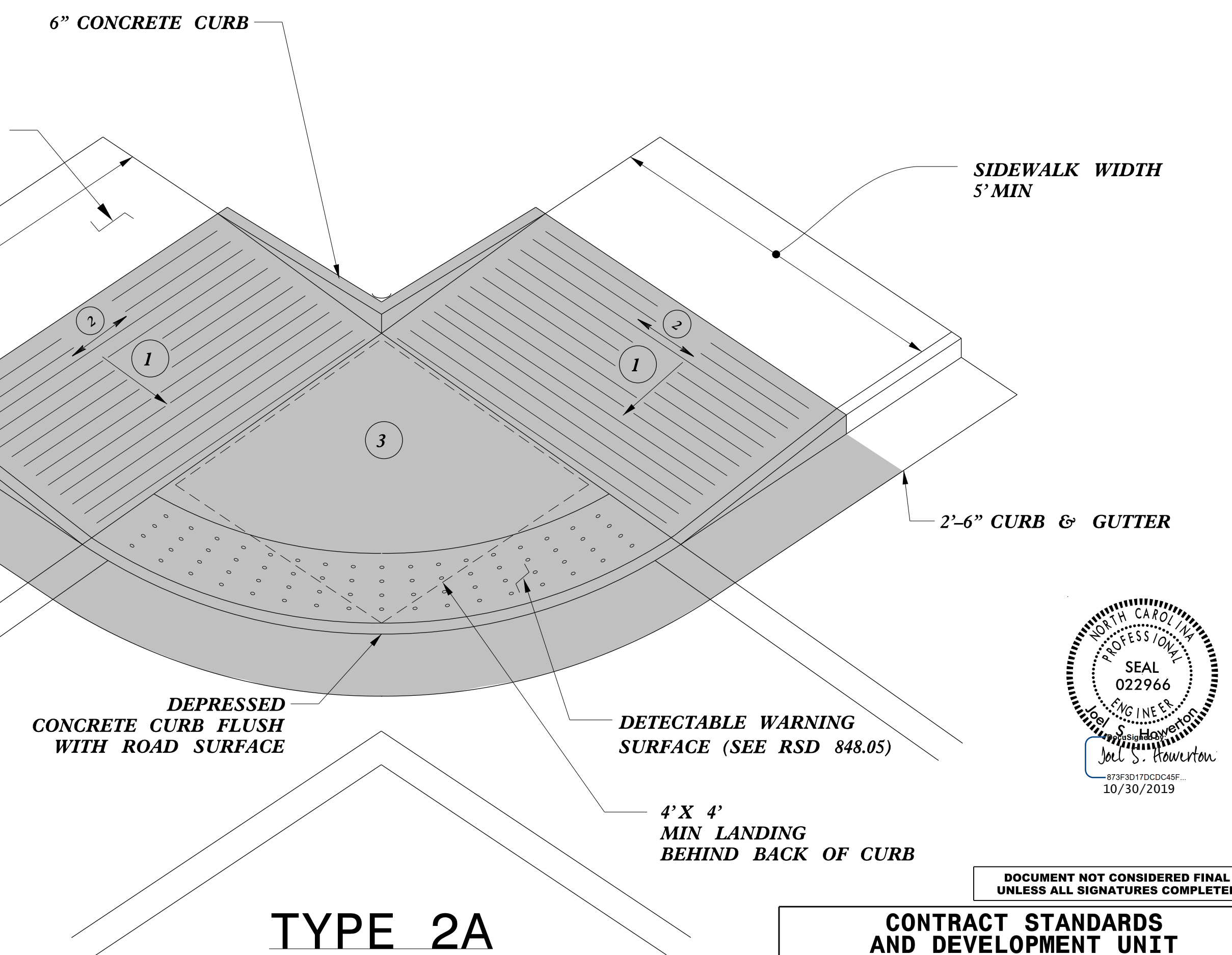
TYPE 2A MOD



TYPE 2B

- 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.

PAY LIMITS FOR 1 CURB RAMP



TYPE 2A



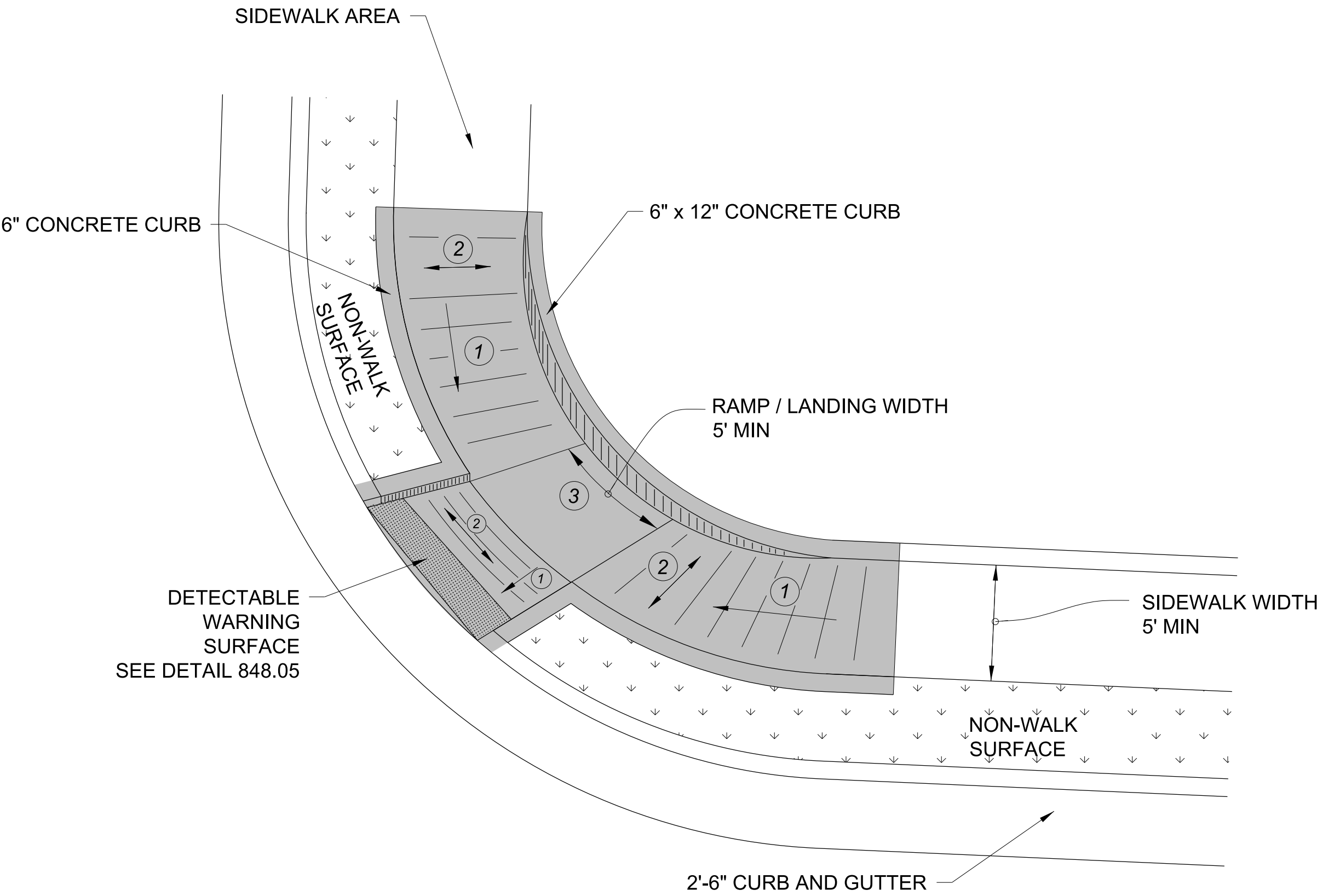
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

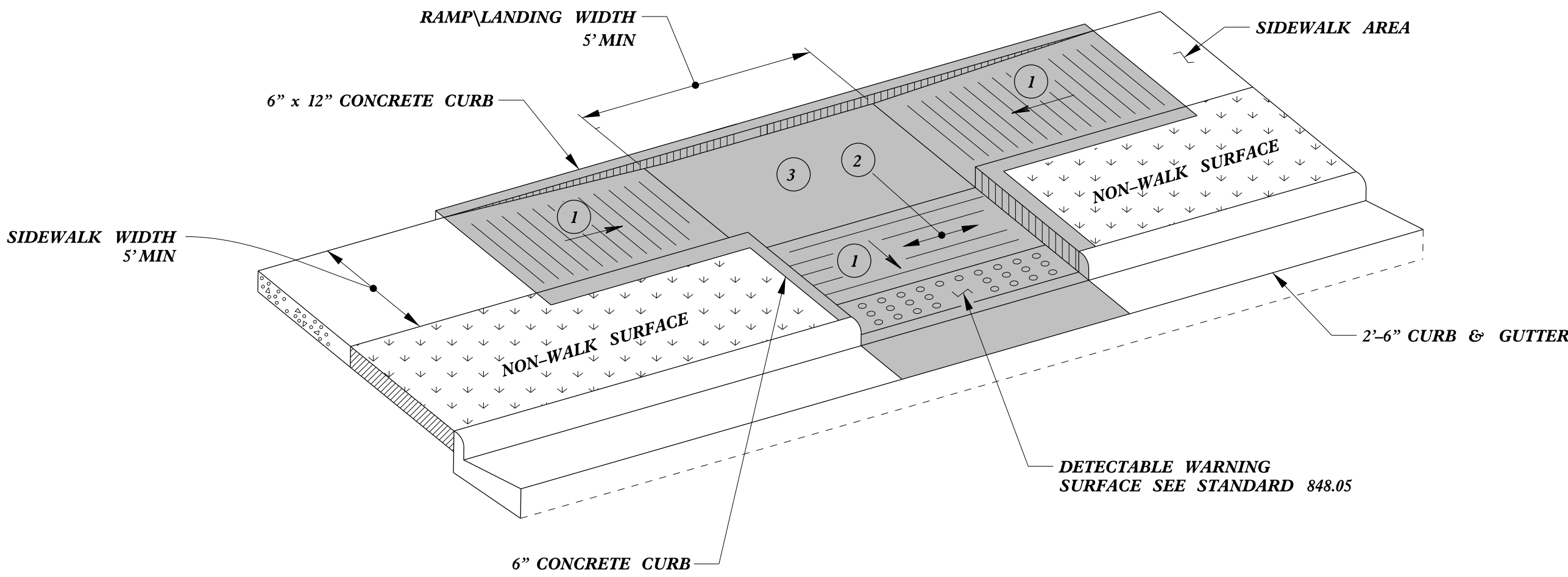
CURB RAMPS

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

PAY LIMITS FOR 1 CURB RAMP



TYPE 3 MODIFIED
INSTALLATION IN A RADIUS

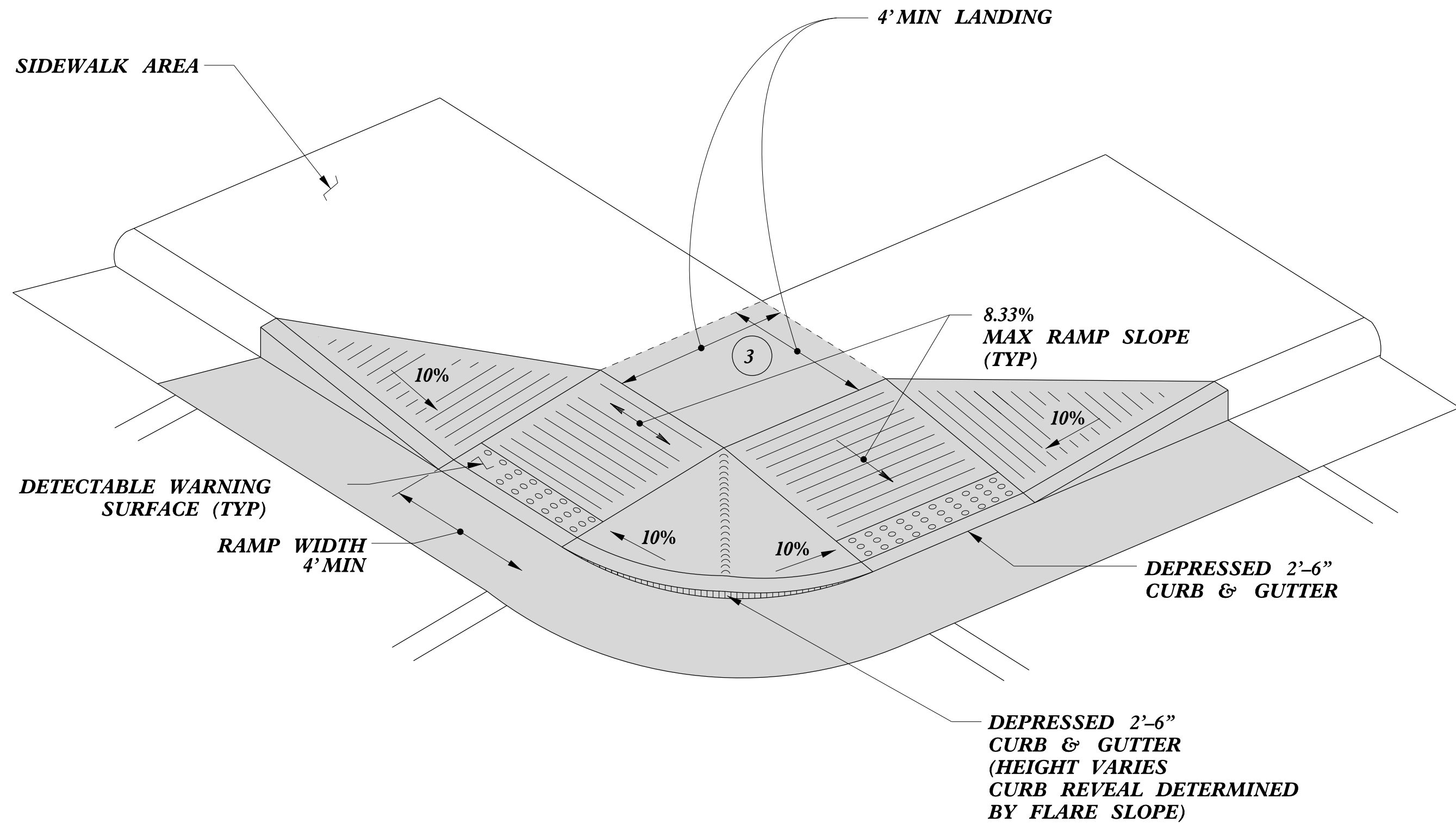


TYPE 3

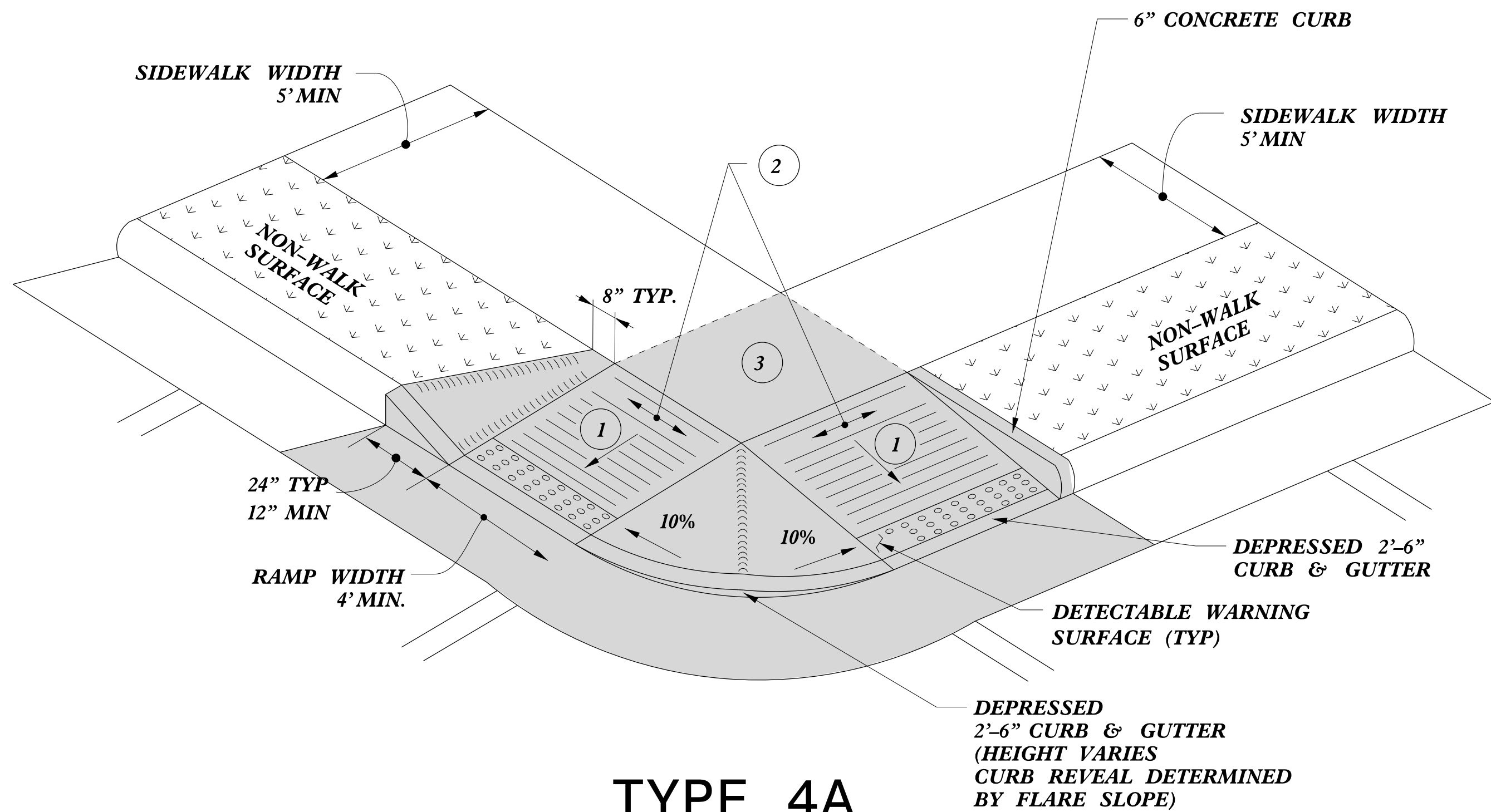
- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



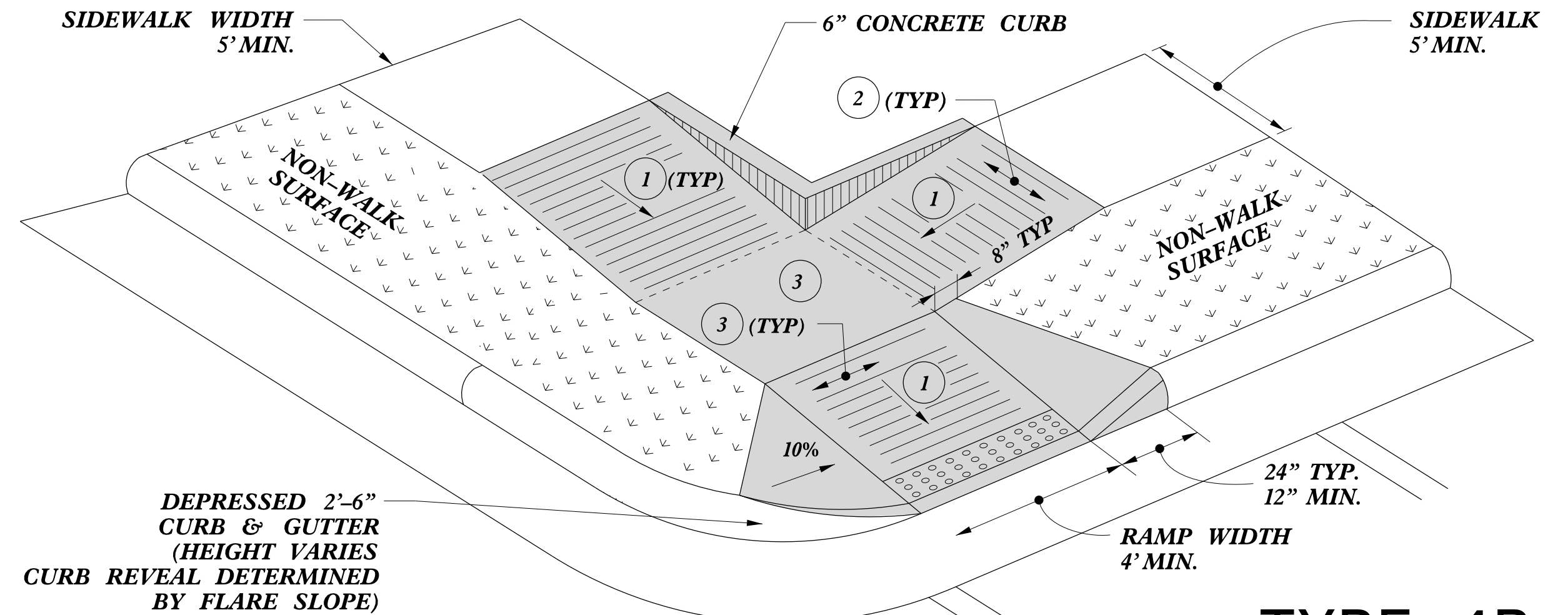
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.:stds/2012CurbRamp/CurbRampDetails.dgn	



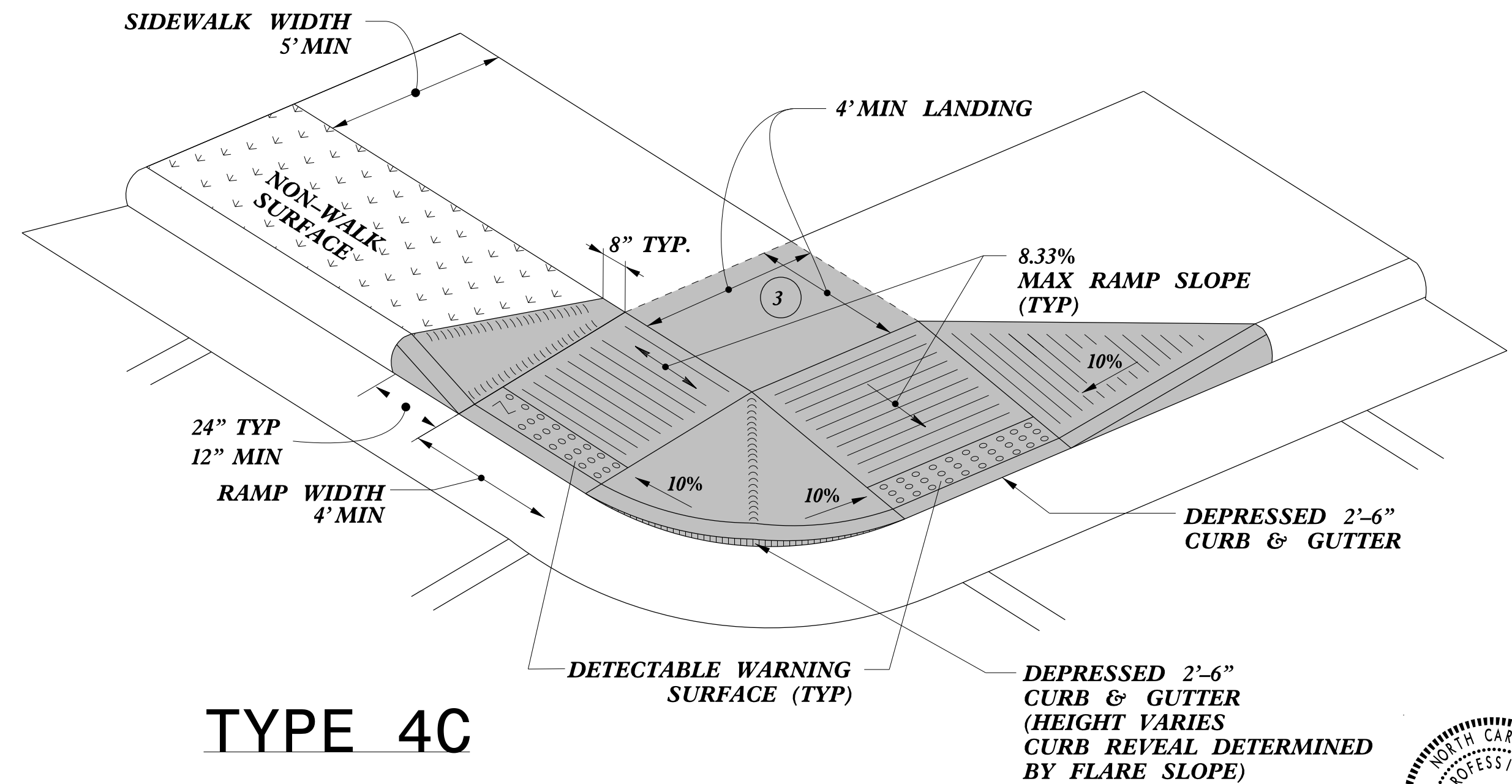
TYPE 4



TYPE 4A

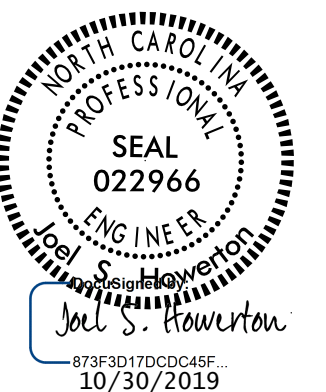


TYPE 4B



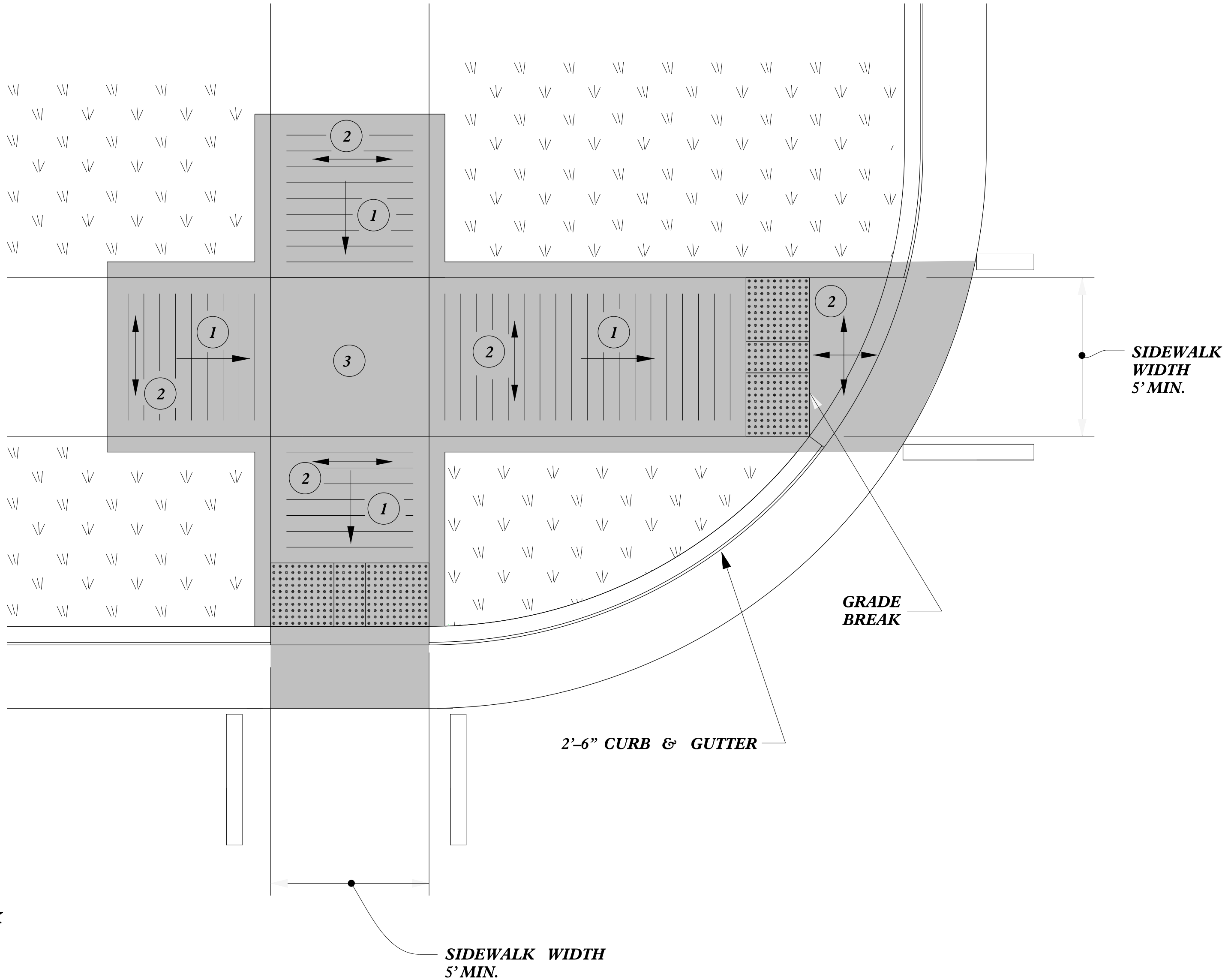
TYPE 4C

- 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.

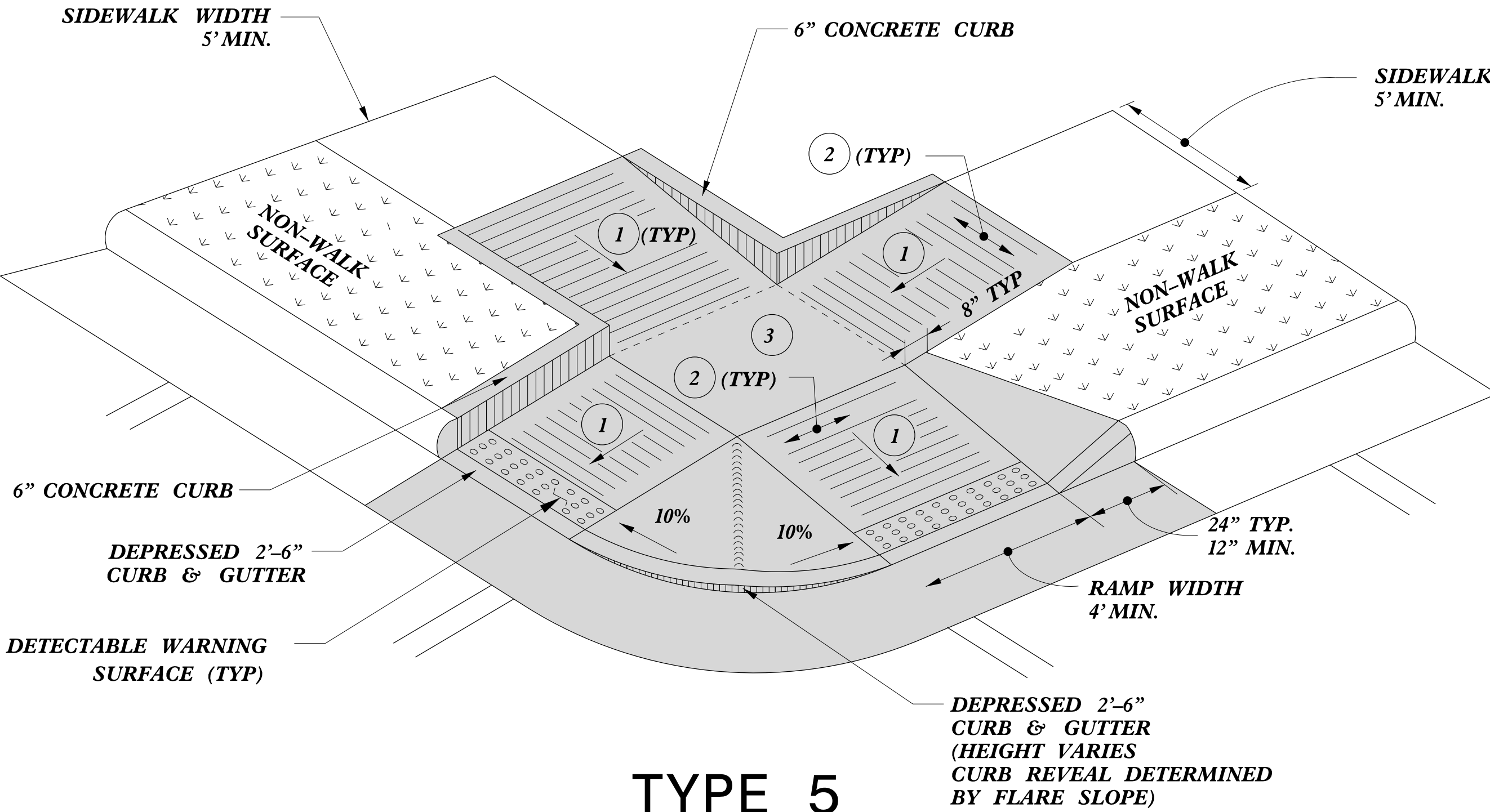


CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC. :stds\2012CurbRamp\CurbRampDetails.dgn	

PAY LIMITS FOR 1 OR 2 CURB RAMPS
(CALCULATE BASED ON NUMBER OF SETS
OF TRUNCATED DOMES)



TYPE 5A



TYPE 5

- 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.



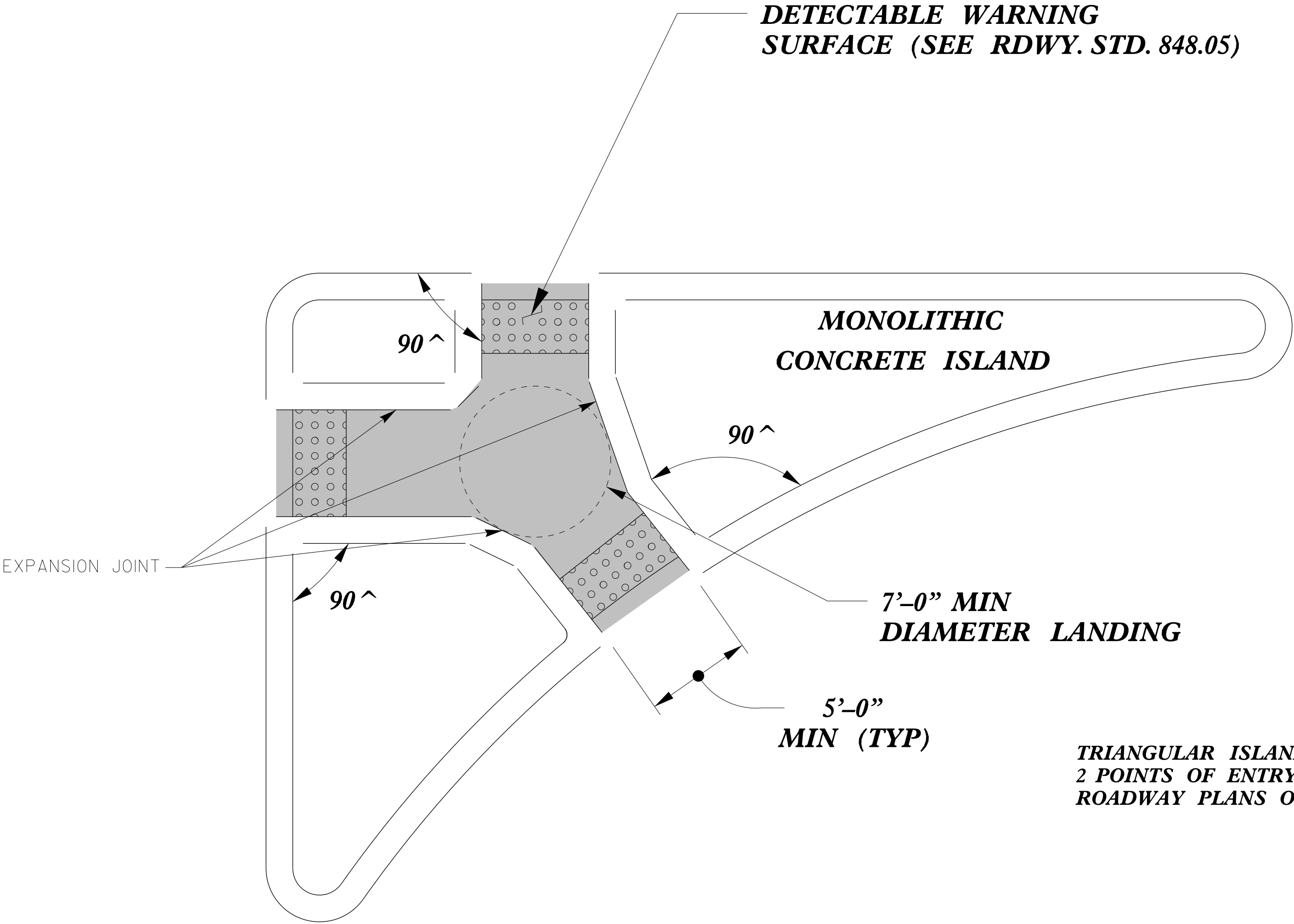
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.: stds/2012CurbRamp/CurbRampDetails.dgn	

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

5/14/99

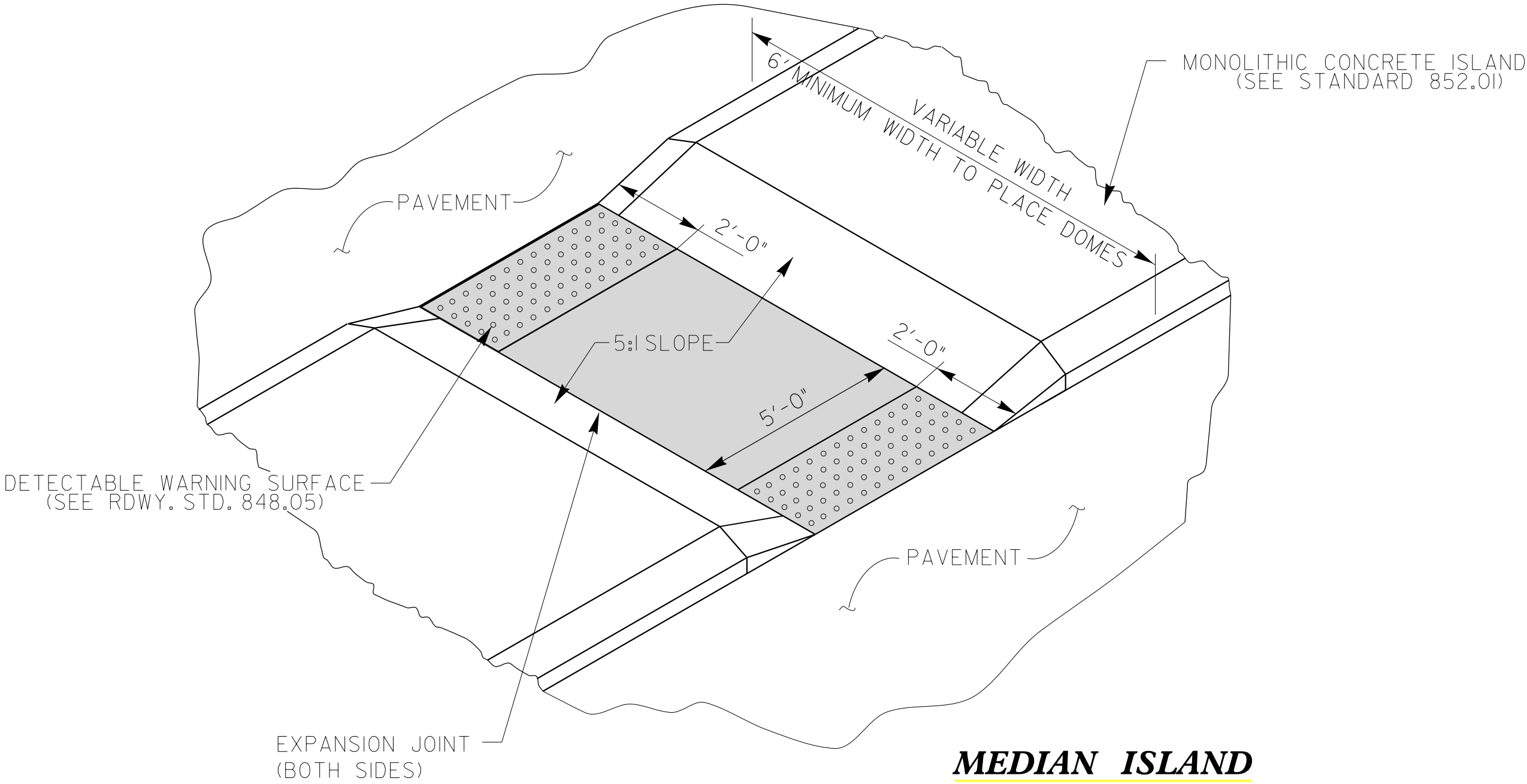
PROJECT REFERENCE NO. SHEET NO.

PAY LIMITS FOR 2 OR 3 CURB RAMPS
(CALCULATE BASED ON NUMBER OF
SETS OF TRUNCATED DOMES)

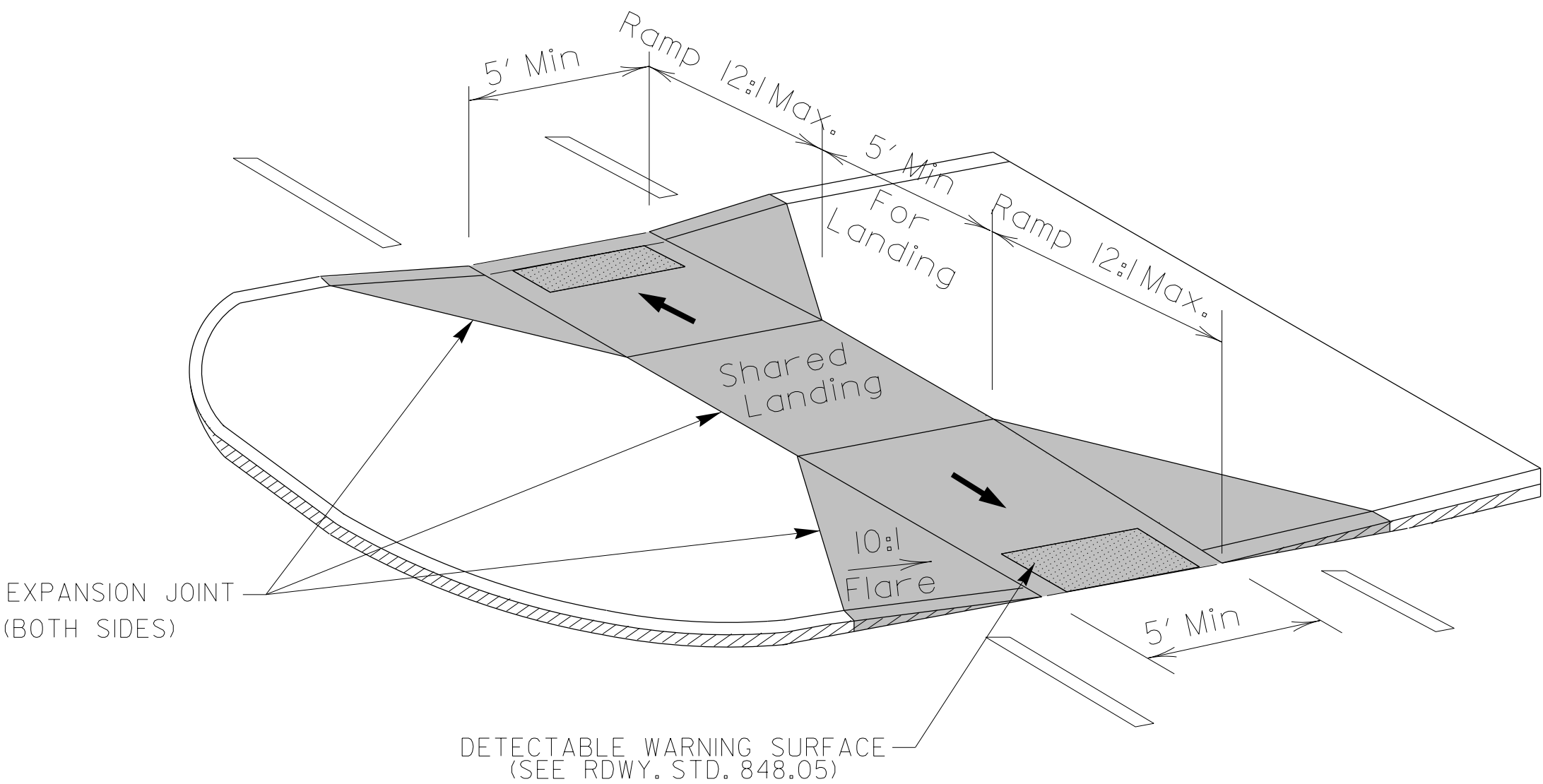


TRIANGULAR ISLANDS MAY BE CONSTRUCTED WITH ONLY
2 POINTS OF ENTRY AND EXIT AS SHOWN IN THE
ROADWAY PLANS OR AS DIRECTED BY THE ENGINEER.

**TRIANGULAR ISLAND
WITH CUT THROUGH
TYPE 6**



**MEDIAN ISLAND
WITH CUT THROUGH
TYPE 7**



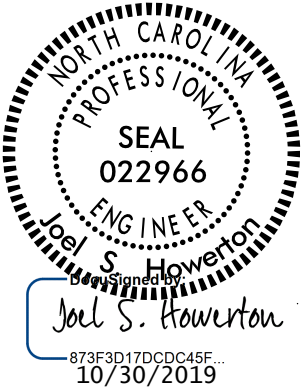
**MEDIAN ISLAND
CURB RAMPS
TYPE 8**

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

**CONTRACT STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-6950 FAX 919-250-4119

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

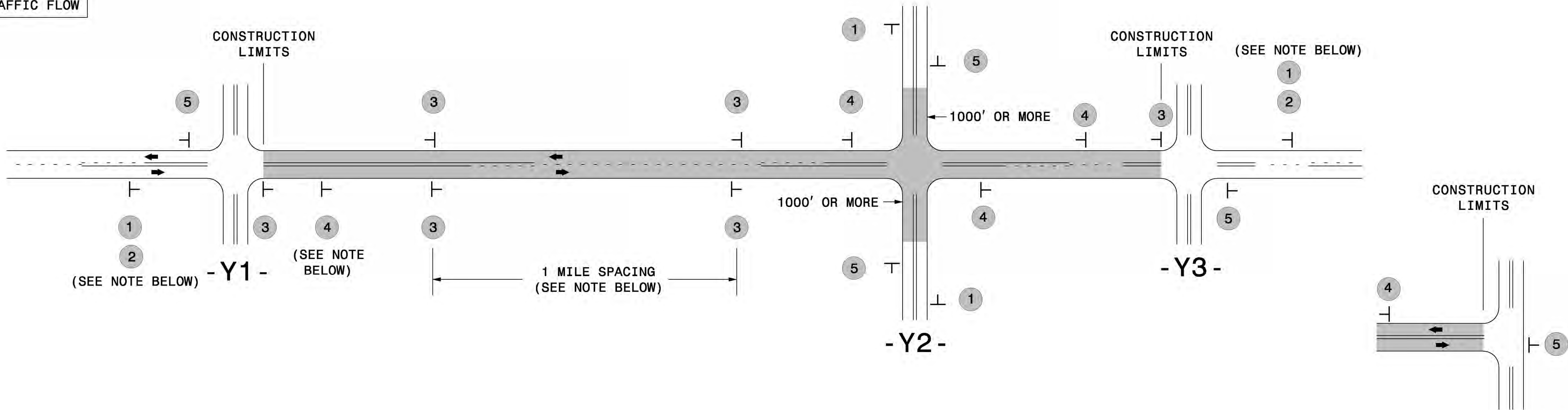


SIGNING FOR RESURFACING PROJECTS

LEGEND

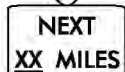
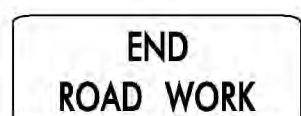
STATIONARY SIGN

DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1  W20-1 48" X 48" 2  W7-3aP 24" X 18" PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE. #2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER.(NO FRACTIONAL OR DECIMAL NUMBERS)	NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS: 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.
	3  SP 13107 48" X 48" - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.	
	4  SP 13106 48" X 48" - THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. - DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. - INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. - FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. - A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.	
	5  G20-2 A 48" X 24" PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	
	THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.	
LESS 2 MILES	FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.	



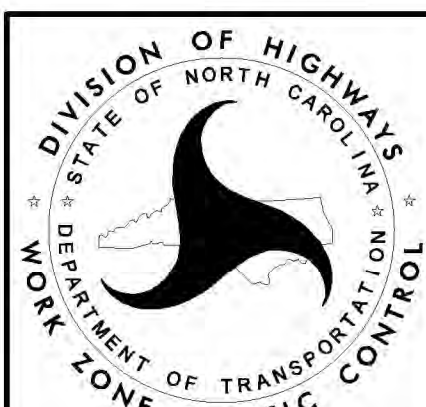
W20-1
48" X 48"

PLACED 500' IN ADVANCE
OF FLAGGER.



W20-7 A
48" X 48"

PLACED 250' IN ADVANCE
OF FLAGGER.

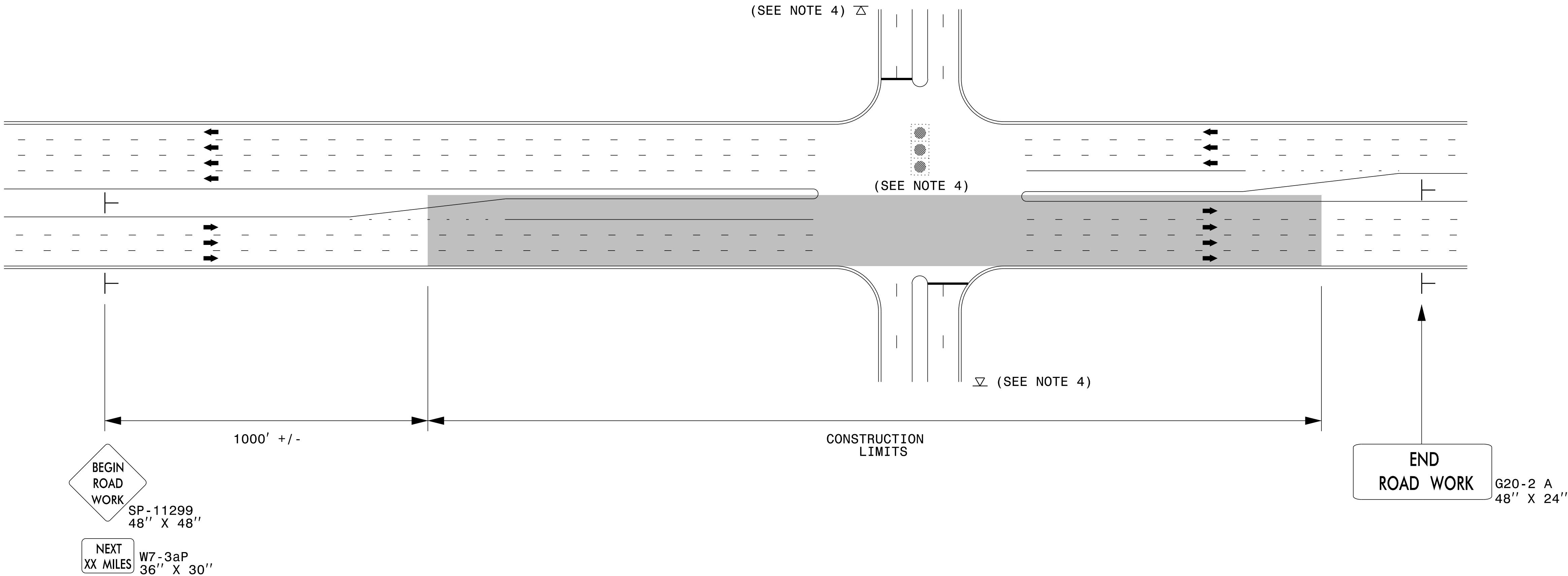


AD



ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2-LANE ROADWAY
RESURFACING

URBAN / SUBURBAN WORKZONES

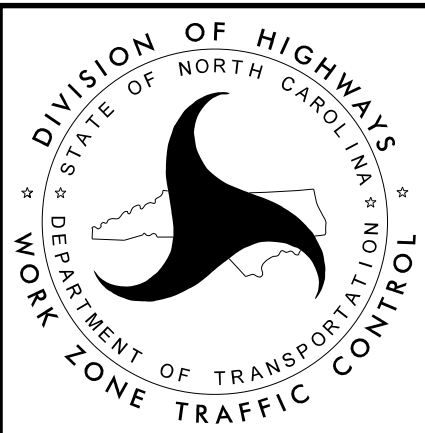


NOTES:

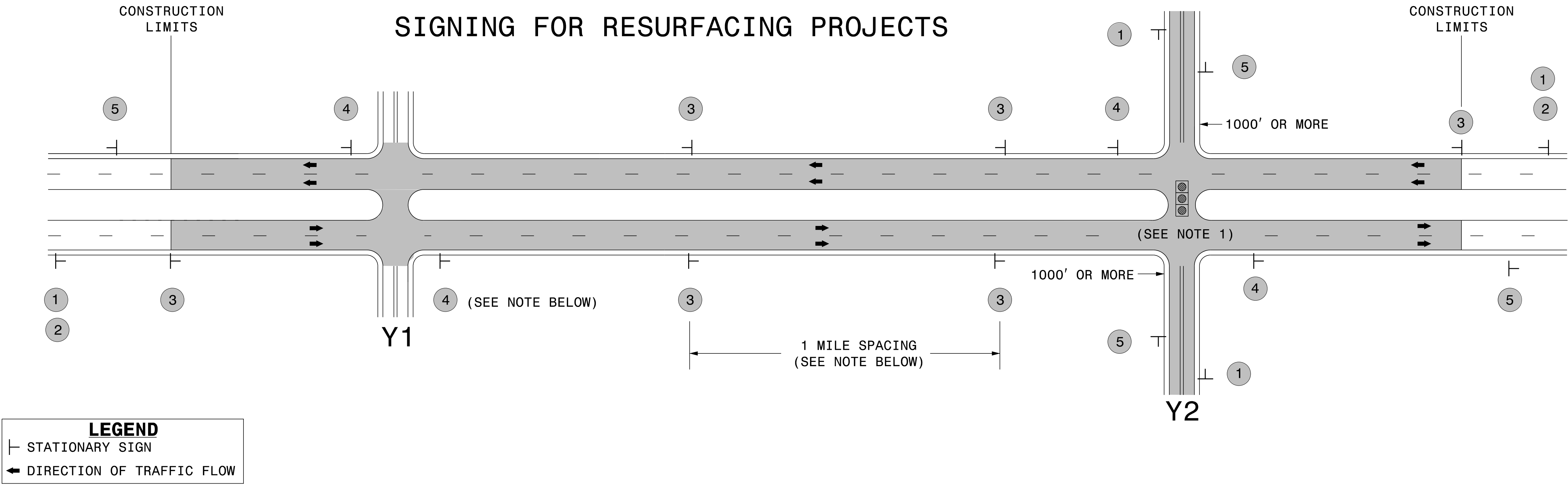
- 1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 36" ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
- 3) ADVANCE WARNING SIGNS NOT REQUIRED ON NON-SIGNALIZED SIDE STREETS.
- 4) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
- 5) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 2' AS MEASURED FROM THE EDGE OF PAVEMENT OR THE FACE OF THE CURB. WHEN UNABLE TO OBTAIN THE LATERAL CLEARANCE WITHIN THE MEDIAN AREA USE SHOULDER MOUNTS ONLY.
- 6) SIGN MOUNT LOCATIONS SHALL NOT BLOCK SIDEWALKS OR DRIVEWAYS.
- 7) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 8) IF MILLED AREAS ARE NOT PAVED BACK BY THE END OF THE WORK DAY, PORTABLE SIGNS SHALL BE USED TO WARN DRIVERS OF THE PRESENT CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO "ROUGH ROAD" W8-8, "UNEVEN LANES" W8-11, "GROOVED PAVEMENT" W8-15 w/MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER WHERE LATERAL CLEARANCE CAN BE OBTAINED WITHIN THE MEDIAN AREAS.THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

LEGEND

- STATIONARY SIGN
- DIRECTION OF TRAFFIC FLOW



RESURFACING ADVANCE
WARNING SIGNS FOR
URBAN / SUBURBAN
FACILITIES



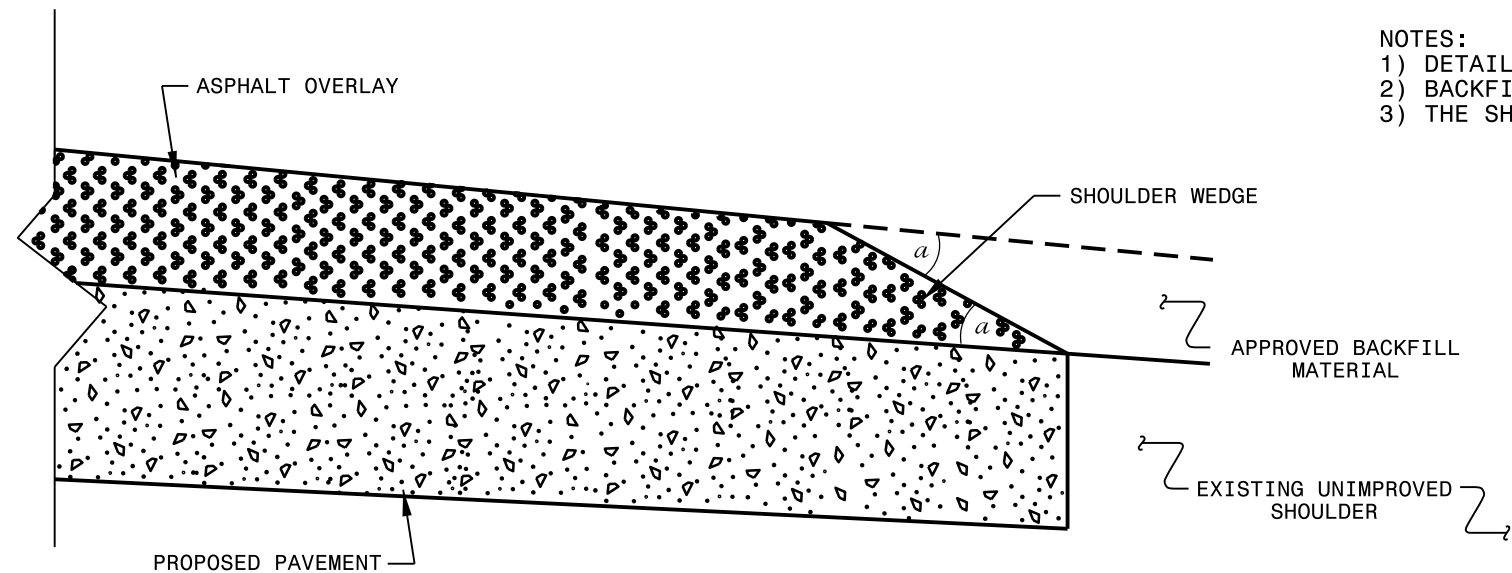
MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

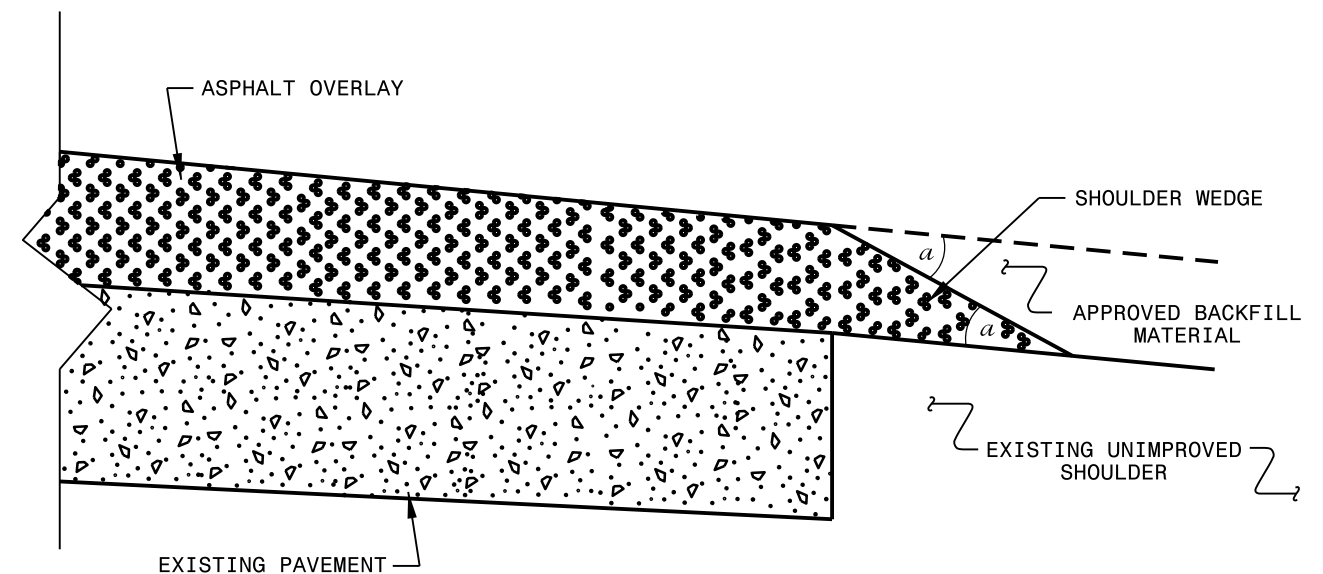
SIGNING NOTES AND PLACEMENT PER DIRECTION	1 2 ROAD WORK AHEAD W20-1 48" X 48" NEXT XX MILES W7-36P 24" X 18" PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE. #2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER.(NO FRACTIONAL OR DECIMAL NUMBERS)	NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS: 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK. ROAD WORK AHEAD W20-1 48" X 48" ROAD WORK AHEAD W20-7 A 48" X 48" PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER. NOTES: 1) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
	3 LOW/SOFT SHOULDER SP 13107 48" X 48" PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET ½ MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.	
	4 ROAD UNDER CONST SP 13106 48" X 48" THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.	
	5 END ROAD WORK G20-2 A 48" X 24" PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.	

NOTES:

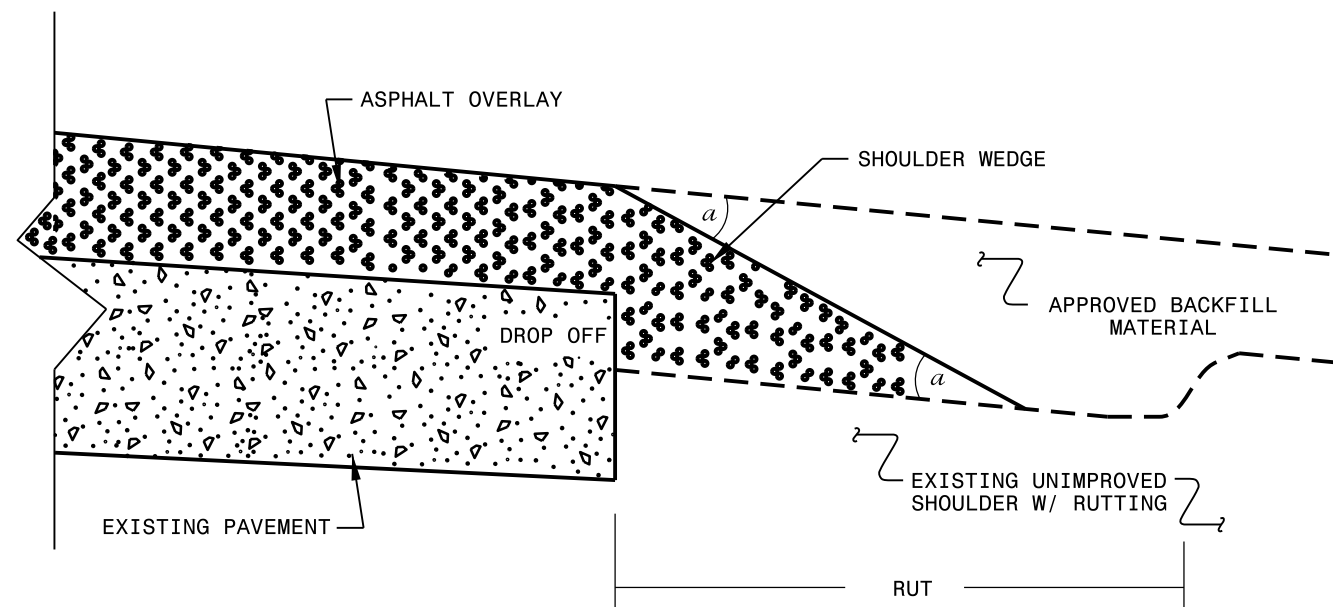
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.

**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°

CONTRACT STANDARDS AND DEVELOPMENT UNIT			
Office 919-707-6950		FAX 919-250-4119	
SHOULDER WEDGE DETAILS			
ORIGINAL BY: _____	T.SPELL	DATE: _____	7-19-11
MODIFIED BY: _____		DATE: _____	10/16/12
CHECKED BY: _____		DATE: _____	
ETLE.SP6C. s:\usr\details\stand\shoulderwedgedetail.dgn			

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4510000000-N	4685000000-E		4695000000-E		4709000000-E	4720000000-E		4725000000-E				4810000000-E		4820000000-E		4835000000-E	4840000000-N		4845000000-N				4905100000-N			
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	LAW ENFORCEMENT	THERMOPLASTIC PAVEMENT MARKING LINES WHITE (4", 90 MILS)	THERMOPLASTIC PAVEMENT MARKING LINES YELLOW (4", 90 MILS)	THERMOPLASTIC PAVEMENT MARKING LINES WHITE (8", 90 MILS)	THERMOPLASTIC PAVEMENT MARKING LINES YELLOW (8", 90 MILS)	THERMOPLASTIC PAVEMENT MARKING LINES WHITE (24", 90 MILS)	THERMO MSG SCHOOL 90 M	THERMO MSG ONLY 90 M	THERMO LT ARROW 90 M	THERMO RT ARROW 90 M	THERMO STR ARROW 90 M	THERMO STR & LT ARROW 90 M	4" YELLOW PAINT	4" WHITE PAINT	8" WHITE PAINT	8" YELLOW PAINT	24" WHITE PAINT	PAINT MSG SCHOOL	PAINT MSG ONLY	PAINT LT ARROW	PAINT RT ARROW	PAINT STR ARROW	PAINT STR & RT ARROW	NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKER			
								MI	FT	SF	LS	HR	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA				
2023CPT.10.08.10601	Mecklenburg	1	WB NC 24/27 ALBEMARLE ROAD (30600024060)	FROM CIRCUMFERENTIAL RD. TO W.T. HARRIS BLVD. (MP 5.80 TO MP 7.86)	1,2,3	2	MD	2.06	26	126	0.067	304	5,916	10,314	1,862		128			24	4	6		10,314	5,916	1,862		128			24	4	6	2	265			
TOTAL FOR MAP NO. 1								2.06		126	0.067	304	5,916	10,314	1,862		128			24	4	6		10,314	5,916	1,862		128			24	4	6	2	265			
2023CPT.10.08.10601	Mecklenburg	2	EB NC 24/27 ALBEMARLE ROAD (30000024060)	FROM W.T. HARRIS BLVD TO CIRCUMFERENTIAL ROAD (MP 16.27 TO MP 18.33)	1,2,3	2	MD	2.06	28	126	0.067	256	5,120	10,343	1,858		117			22	7	12		10,343	5,120	1,858		117			22	7	12		205			
TOTAL FOR MAP NO. 2								2.06		126	0.067	256	5,120	10,343	1,858		117			22	7	12		10,343	5,120	1,858		117			22	7	12		205			
TOTAL FOR PROJ NO. 2023CPT.10.08.10601								4.12		252	0.133	560	11,036	20,657	3,720		245			46	11	18		20,657	11,036	3,720		245			46	11	18	2	470			
										31,693				3,720				75				31,693		3,720						77								
2023CPT.10.08.20601	Mecklenburg	3	SR 2831 JOHN RUSSELL ROAD (40002831060)	FROM PVT. JOINT AT MCLEAN ROAD TO ROCKY RIVER ROAD (MP 1.06 TO MP 1.56)	4,5	2	2WU	0.5	24	64	0.067	32	4,853	7,344		118	24			4	3		3															
TOTAL FOR MAP NO. 3								0.5		64	0.067	32	4,853	7,344		118	24			4	3		3															
2023CPT.10.08.20601	Mecklenburg	4	SR 2976 GRIER ROAD (40002976060)	FROM NEWELL HICKORY GROVE ROAD TO 0.10 MI WEST OF ROCKY RIVER ROAD (MP 0.00 TO MP 1.12)	6	2	2WU	1.12	26	126	0.067	192	14,378	16,134	461		210	12	4	18	10	7																
TOTAL FOR MAP NO. 4								1.12		126	0.067	192	14,378	16,134	461		210	12	4	18	10	7																
2023CPT.10.08.20601	Mecklenburg	5	SR 3554 FORRESTMONT DRIVE (40003554060)	FROM E. JOHN ST. TO FRIENDSHIP DR. (MP 0.00 TO MP 0.45)	7	2	2WU	0.45	20	32	0.067																											
TOTAL FOR MAP NO. 5								0.45		32	0.067																											
2023CPT.10.08.20601	Mecklenburg	6	SR 3553 FRIENDSHIP DRIVE (40003553060)	FROM E. JOHN ST. TO WOODSTAR RD (MP 0.00 TO MP 0.20)	7	2	2WU	0.2	20	32	0.067																											
TOTAL FOR MAP NO. 6								0.2		32	0.067																											
2023CPT.10.08.20601	Mecklenburg	7	SR 3562/1405 FRIENDSHIP DRIVE (40003562060)	FROM MORNINGWOOD DR. TO WOODFERN PLACE (MP 0.00 TO MP 0.21)	7	2	2WU	0.21	20	32	0.067																											
TOTAL FOR MAP NO. 7								0.21		32	0.067																											
2023CPT.10.08.20601	Mecklenburg	8	SR 3561/1407 WOODCALM PLACE (40003561060)	FROM FORRESTMONT DR. TO FRIENDSHIP DR (MP 0.00 TO MP 0.07)	7	2	2WU	0.07	18	32	0.067																											
TOTAL FOR MAP NO. 8								0.07		32	0.067																											
2023CPT.10.08.20601	Mecklenburg	9	SR 3560/1405 WOODFERN PLACE (40003560060)	FROM FORRESTMONT DRIVE TO FRIENDSHIP DR (MP 0.00 TO MP 0.08)	7	2	2WU	0.08	18	32	0.067																											
TOTAL FOR MAP NO. 9								0.08		32	0.067																											
2023CPT.10.08.20601	Mecklenburg	10	SR 3559/2846 WOODSTAR ROAD (40003559060)	FROM MORNINGWOOD DR. TO END OF MAINTENANCE (MP 0.00 TO MP 0.21)	7	2	2WU	0.21	18	32	0.067																											
TOTAL FOR MAP NO. 10								0.21		32	0.067																											
2023CPT.10.08.20601	Mecklenburg	11	SR 3558 STILLWOOD PLACE (40003558060)	FROM MORNINGWOOD DR. TO FORRESTMONT DR. (MP 0.00 TO MP 0.08)	7	2	2WU	0.08	18	32	0.067																											
TOTAL FOR MAP NO. 11								0.08		32	0.067																											
2023CPT.10.08.20601	Mecklenburg	12	SR 3557 PLEASANTWOOD PLACE (40003557060)	FROM MORNINGWOOD DRIVE TO FORRESTMONT DR. (MP 0.00 TO MP 0.09)	7	2	2WU	0.09	18	32	0.067																											
TOTAL FOR MAP NO. 12								0.09		32	0.067																											
2023CPT.10.08.20601	Mecklenburg	13	SR 3556 HARDWOOD PLACE (40003556060)	FROM MORNINGWOOD DR. TO FORRESTMONT DR. (MP 0.00 TO MP 0.10)	7	2	2WU	0.1	18	32	0.067																											
TOTAL FOR MAP NO. 13								0.1		32	0.067																											
2023CPT.10.08.20601	Mecklenburg	14	SR 4046 REA ROAD (40004046060)	FROM NC 16 PROVIDENCE ROAD TO COLONY ROAD (MP 0.00 TO MP 1.87)	8,9,10,11	2	2WU	1.87	22	210	0.067	272	9,908	22,650	1,364	560	217	12	12	52	11	3		22,650	9,908	1,364	560	217	12	12	52	11	3					
TOTAL FOR MAP NO. 14								1.87		210	0.067	272	9,908	22,650	1,364	560	217	12	12	52	11	3		22,650	9,908	1,364	560	217	12	12	52	11	3					
2023CPT.10.08.20601	Mecklenburg	15	SR 5469 SHOPTON ROAD (40005469060)	FROM PLEASANT WAY LANE TO HAINES MILL ROAD (MP 1.15 TO MP 2.28)	13,14,15	2	2WU	1.13	24	80	0.067		11,477	14,110	45	158	24	6		9																		
TOTAL FOR MAP NO. 15								1.13		80	0.067		11,477	14,110	45	158	24	6		9																		
TOTAL FOR PROJ NO. 2023CPT.10.08.20601								6.11		768	0.866	496	40,616	60,238	1,870	836	475	30	16	83	24	10	3	22,650	9,908	1,364	560	217	12	12	52	11	3					
										100,854				2,706				46				120				32,558		1,924		24				66				
GRAND TOTAL								10.23		1,020	1	1,056	51,652	80,895	5,590	836	720	30	16	129	35	28	3	43,307	20,944	5,084	560	462	12	12	98	22	21	2	470			
										132,547				6,426				46				195				64,251		5,644		24				143				