

# A d d e n d u m

Iowa Department of Transportation  
Office of Contracts

Date of Letting: March 15, 2016  
Date of Addendum: February 26, 2016

<b>B.O.</b>	<b>Proposal ID</b>	<b>Proposal Work Type</b>	<b>County</b>	<b>Project Number</b>	<b>Addendum</b>
105	47-0202-146	PCC PAVEMENT (MISCELLANEOUS)	IDA	NHSN-020-2(146)--2R-47	15MAR105.A01

Make the following changes to plan s:

Replace plan sheets A.1, B.2, C.4, J.01, & U10 with the attached;

On Sheet A.1:

Add Sheet Nos. L1 –L6, Geometric & Staking, Jointing Details to the Index of Sheets, tab 105-3, and to the list of sheets covered by the engineer’s seal;  
Change total sheet count to 192 in the upper right corner of the sheet.

On Sheet B.2:

Revise Note 4 in Typical Section “2LN-PAV-2” to change the spacing of the transverse joints from 20’ to 15’ for the pavement shown in this Typical Section.

On Sheet C.4:

Revise the Station Location for location No. 5 & 6 in Tab 110-7A as follows:

Location	Original Station to Station		Revised Station to Station	
5	1354+16.00	1256+18.00	958+16.00	960+18.00
6	13544+45.00	1356+35.00	958+45.00	960+35.00

Replace Sheet U.10 with the revised sheet provided (to show the Rumble Stripe being located at the edge of pavement).

Add Sheet L.1, L.2, L.3, L.4, L.5, & L.6 to the plans:

Intersection Geometric and Staking Details and Jointing Details.

LETTING DATE  
Mar. 15, 2016

PCC PAVEMENT  
(MISCELLANEOUS)

NHSN-020-2(146)--2R-47

IDA/SAC CO.



Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

IDA/SAC COUNTY

PCC PAVEMENT (MISCELLANEOUS)

Detour for US 20 - Co Rd M25, Co Rd D15, Cory Ave,  
190th St, and US 71

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.

REVISIONS

TOTAL

192

PROJECT IDENTIFICATION NUMBER

98-97-020-010-05

PROJECT NUMBER

NHSN-020-2(146)--2R-47

R.O.W. PROJECT NUMBER

INDEX OF SHEETS

105-3

10-18-05

No.	Description
A.1-A.2	TITLE SHEET & LOCATION MAP
B.1-B.3	TYPICAL SECTIONS
C.1-C.14	ESTIMATED QUANTITIES AND GENERAL INFORMATION
E.1-E.9	PLAN AND PROFILE SHEETS
J.1	TRAFFIC CONTROL PLAN
L.1-L.6	GEOMETRICS & STAKING, JOINTING DETAILS
M.1	STORM SEWER
T.1-T.7	EARTHWORK QUANTITY SHEETS
U.1-U.10	INFORMATIONAL SHEETS
X.200-X.203	CROSS SECTIONS (D15)
X.100-X.175	CROSS SECTIONS (CORY AVE.)
X.1-X.59	CROSS SECTIONS (190TH ST.)

For Project Location Map  
Refer to Sheet No. A.2

CO. RD. M25			
DESIGN DATA RURAL			
2016	AADT	610	V.P.D.
2036	AADT	--	V.P.D.
2036	DHV	--	V.P.H.
	TRUCKS	--	%
Total	Design ESALs	--	

CO. RD. D15			
DESIGN DATA RURAL			
2016	AADT	540	V.P.D.
2036	AADT	--	V.P.D.
2036	DHV	--	V.P.H.
	TRUCKS	--	%
Total	Design ESALs	--	

US 71			
DESIGN DATA RURAL			
2016	AADT	2990	V.P.D.
2036	AADT	--	V.P.D.
2036	DHV	--	V.P.H.
	TRUCKS	--	%
Total	Design ESALs	--	

INDEX OF SEALS		
SHEET NO.	NAME	TYPE
A.1	TODD E. HUJU	Primary Signature Block

LICENSED PROFESSIONAL ENGINEER

**TODD E. HUJU**

13401

IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

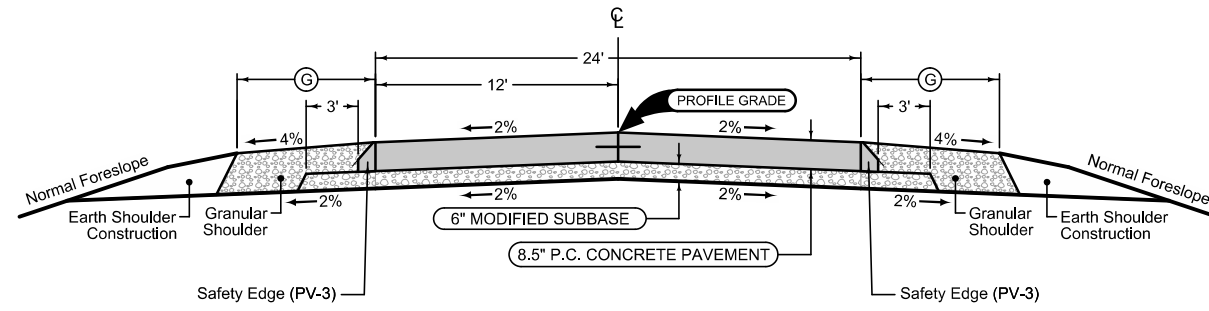
*Todd E. Huju* 01/05/16

Signature: TODD E. HUJU Date

Printed or Typed Name

My license renewal date is December 31, 2016

Pages or sheets covered by this seal:  
A1-A2, B.1-B.3, C.1-C.14, E.1-E.9, J.1, L.1-L.6, M.1, T.1-T.7, U.1-U.10



Notes:  
 Normal section shown may be Modified appropriately in areas of superelevated curves or other locations specifically designated by the engineer.

- ① Shoulder material as specified elsewhere in these plans.
- ② Refer to "E" sheets for additional details.
- ③ 6-Inches of top soil included in quantity.
- ④ Mainline Jointing:  
 Transverse joints: CD at 15' spacing  
 Longitudinal joints: L-2

Location		Side	Design Quantities Per Station				⑥ Feet	Remarks
Road Identification	Station to Station		8.5" PCC, Slip-Form Paving Sq. Yds.	Modified Subbase Cu. Yds.	Earth Shoulder Construction Cu. Yds. ③	Granular Shoulder Type "B" Tons		
D15	1001+50 to 1003+88	Both	288.89	59.3	5.4	17.4	4	
Cory Avenue	503+00 to 557+60	Both	288.89	59.3	5.4	17.4	4	
190th Street	0+85 to 54+67	Both	288.89	59.3	5.4	7.4	2	

**TYPICAL CROSS SECTION  
 PCC PAVING - NEW**

### STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE RAIL END SECTION

Refer to BA-200, BA-201, BA-202, BA-205, BA-206, BA-210, BA-211, BA-250, SI-172, SI-173 and SI-211.

① Lane(s) to which the obstacle is adjacent.

No.	Direction of Traffic	① Side O = Outside M = Median	Location		Layout Lengths					Long-Span System		Delineators and Object Markers				Bid Items					Remarks				
			Station	Offset	BA-250					BA-211	SI-211	SI-172		SI-173		Bolted End Anchor	Barrier Transition Section Mod. BA-201	Steel Beam Guardrail	End Terminal			Post Adapter			
					VT1 (40.625' min.)	VF	VT2	ET (37.5' or 50.0')	SI-172 Type 1			SI-173 Type 2	SI-173 Type 3	BA-202	BA-205				BA-206						
					FT	LF	LF	LF	LF			White	OM2-2	OM3-L	OM3-R				BA-200	BA-205			BA-206	BA-210	
1	EB	O	4+59.00	13.0	28.125				37.5			1	7	2	1		C	1	1	0.0			1		Ida County D15
2	WB	O	4+59.00	13.0	28.125				37.5			1				1	C	1	1	0.0			1		Ida County D15
3	EB	O	5+33.00	13.0	28.125				37.5			1	7	2	1		C	1	1	0.0			1		Ida County D15
4	WB	O	5+33.00	13.0	28.125				37.5			1				1	C	1	1	0.0			1		Ida County D15
5	EB	O	273+60.00	13.0	28.125				37.5			1	7	2	1		C	1	1	0.0			1		Sac County D15
6	WB	O	273+60.00	13.0	28.125				37.5			1				1	C	1	1	0.0			1		Sac County D15
7	EB	O	274+38.00	13.0	28.125				37.5			1	7	2	1		C	1	1	0.0			1		Sac County D15
8	WB	O	274+38.00	13.0	28.125				37.5			1				1	C	1	1	0.0			1		Sac County D15
9	EB	O	286+96.00	13.0	28.125				37.5			1	7	2	1		C	1	1	0.0			1		Sac County D15
10	WB	O	286+96.00	13.0	28.125				37.5			1				1	C	1	1	0.0			1		Sac County D15
11	EB	O	287+98.00	13.0	28.125				37.5			1	7	2	1		C	1	1	0.0			1		Sac County D15
12	WB	O	287+98.00	13.0	28.125				37.5			1				1	C	1	1	0.0			1		Sac County D15

### STEEL BEAM GUARDRAIL FOR SIDE OBSTACLE (TWO-WAY PROTECTION)

Refer to BA-200, BA-205, BA-206, BA-210, BA-211, BA-251, SI-172, SI-173, and SI-211.

① Lane(s) to which the obstacle is adjacent.

No.	Direction of Traffic	① Side O = Outside M = Median	Location		Layout Lengths								Long-Span System		Delineators and Object Markers				Bid Items			Remarks				
			Station	Offset	O <sub>L</sub>	D <sub>0</sub>	Approach Side (A)				Trailing Side (T)				BA-211	SI-211	SI-172		SI-173		Steel Beam Guardrail		End Terminal		Post Adapter	
							ET 37.5' or 50.0'	VT2 <sub>A</sub>	VF <sub>A</sub>	VT1 <sub>A</sub>	VT1 <sub>T</sub>	VF <sub>T</sub>	VT2 <sub>T</sub>	ET 37.5' or 50.0'			SI-172 Type 1	SI-173 Type 2	SI-173 Type 3	BA-200			BA-205	BA-206		
							FT	LF	LF	LF	LF	LF	LF	LF			White	OM2-2	OM3-L	OM3-R			BA-200	BA-205		BA-206
1	EB	O	959+24.00						37.5	18.75	37.50				37.5	959+24.00	2	4	3	4	1	1	50.0		2	
2	WB	O	959+39.00						37.5	18.75	37.50				37.5	959+39.00	2	4	3	4	1	1	50.0		2	

**108-13A**  
08-01-08

#### SAFETY CLOSURES

Refer to Section 2518 of the Standard Specifications

Station	Closure Type		Remarks
	Road Qty.	Hazard Qty.	
78+10.00	1		Ida Co. D15
76+60.00	1		Alley N. of D15
74+60.00	1		Crawford St.
70+60.00	1		Buena Vista St.
52+10.00	4		Marshall Ave.
0+00.00	3		Adams Ave.
873+00.00	4		M27/Armstrong Ave.
896+05.00	4		Bettin Ave.
949+25.00	4		M31/Buchanan Ave.
1001+40.00	1		Sac Co. D15
502+90.00	1		Cory Ave.
557+70.00	1		Cory Ave.
0+75.00	1		190th St.
54+75.00	1		190th St.
TOTAL	28		

**112-7**  
10-19-10

#### RUMBLE STRIP PANELS

Refer to Standard Road Plan PV-10.

Road Ident.	Station	Side	Pavement		Remarks
			New	Existing	
D15	994+00.00	R		x	
D15	997+25.00	R		x	
D15	1000+50.00	R		x	
Cory Ave	495+00.00	R		x	
Cory Ave	498+25.00	R		x	
Cory Ave	501+50.00	R		x	
Cory Ave	508+50.00	L	x		
Cory Ave	511+75.00	L	x		
Cory Ave	515+00.00	L	x		
Cory Ave	536+95.00	R	x		
Cory Ave	540+20.00	R	x		
Cory Ave	543+45.00	R	x		
190th St	5+00.00	L	x		
190th St	8+25.00	L	x		
190th St	11+50.00	L	x		
190th St	44+80.00	R	x		
190th St	48+05.00	R	x		
190th St	51+30.00	R	x		

**110-7A**  
04-17-12

#### REMOVAL OF STEEL BEAM GUARDRAIL

① Lane(s) to which the installation is adjacent.  
② Includes length of End Terminals and End Anchors.

No.	Direction of Traffic	Location		Side	Removal of Guardrail LF
		Station to Station			
1	EB	5+91.00	5+33.00	R	58.3
2	WB	5+91.00	5+33.00	L	58.3
3	EB	4+59.00	4+00.00	R	58.3
4	WB	4+59.00	4+00.00	L	58.3
5	EB	958+16.00	960+18.00	R	202.0
6	WB	958+45.00	960+35.00	L	190.0
7	EB	273+02.00	273+60.00	R	58.3
8	WB	273+02.00	273+60.00	L	58.3
9	EB	274+38.00	274+96.00	R	58.3
10	WB	274+38.00	274+96.00	L	58.3
11	EB	286+38.00	286+96.00	R	58.3
12	WB	286+38.00	286+96.00	L	58.3
13	EB	287+98.00	288+56.00	R	58.3
14	WB	287+98.00	288+56.00	L	58.3
TOTAL					1091.6

108-23A  
08-01-08

### TRAFFIC CONTROL PLAN

1. Through traffic will be maintained at all times on County Road M25 and County Road D15 between IA 110 and US 71.
2. Traffic on County Road D15 in Ida and Sac County between M25 in Galva and Cory Avenue in Schaller will be detoured during the grading, PCC Paving and HMA resurfacing operations on these segments. D15 from Cory Avenue to D15 Sta. 1000+00 will remain open to traffic except as noted in the proposal. Detour to be maintained by others.
3. Traffic on Cory Avenue and 190th Street will be detoured during construction of these segments. Cory Avenue South of D15 to Sta. 506+00 will remain open to traffic except as noted in the proposal. Detour to be maintained by others.
4. Traffic control on this project shall be found in accordance with the TC series of Standard Road Plans found in Tab 105-4 on Sheet C.3 and/or appropriate Detail Sheets included in the plans. For additional complementary information, refer to part VI of the Manual on Uniform Traffic Control Devices and the current Standard Specifications.
5. The Contractor shall coordinate traffic control with other projects in the area.

108-26A  
08-01-08

### STAGING NOTES

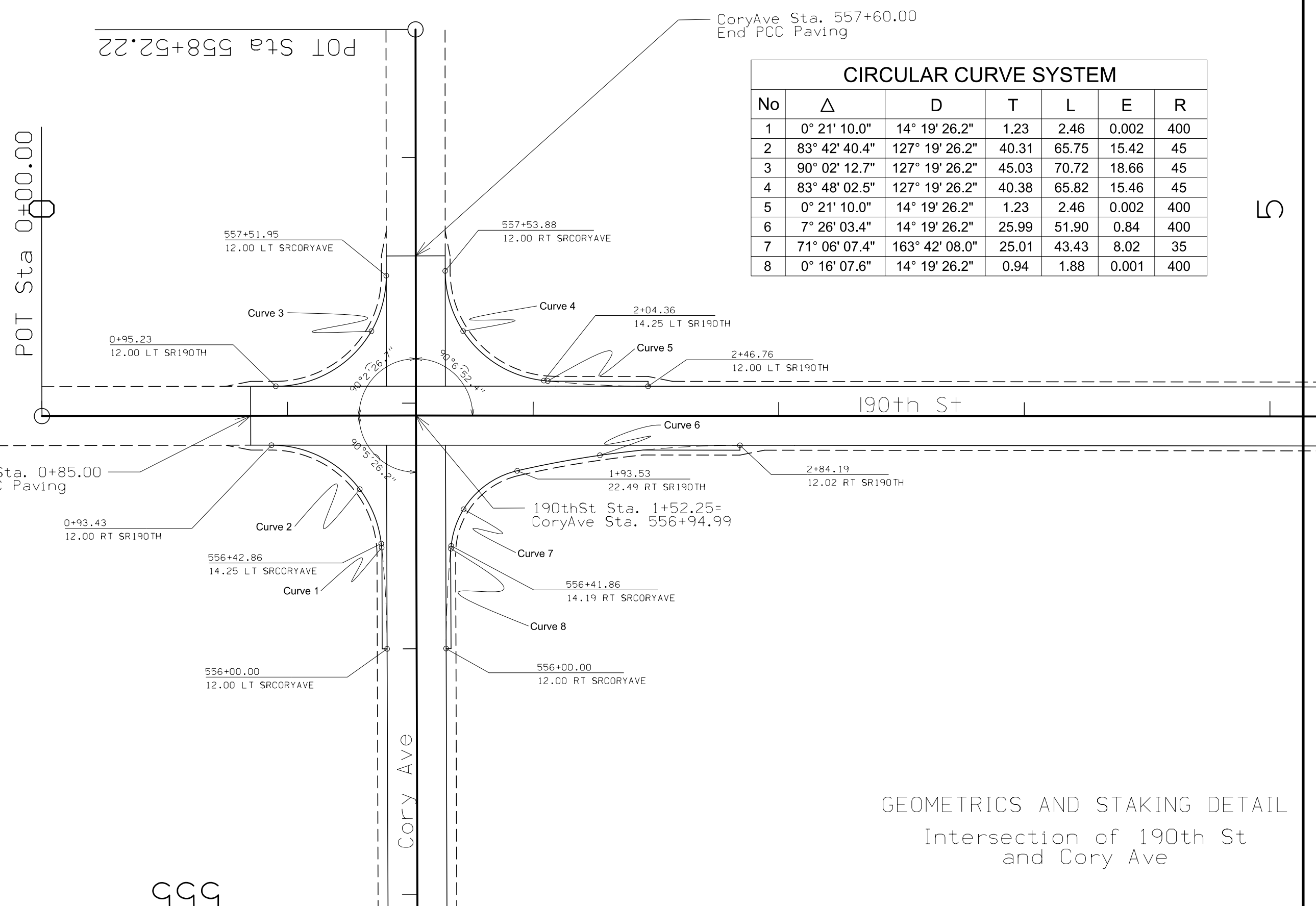
1. With Traffic detoured from County Road D15 in Ida and Sac County between M25 in Galva and Cory Avenue in Schaller, remove pavement on D15 and construct the PCC Pavement from Sta. 81+70 to 0+00. Complete HMA milling and resurfacing on D15 from Sta. 790+00 to 1001+50. During any periods of which there is not HMA resurfacing work in progress on D15 in Sac County the portion of the roadway in Sac County shall be opened to local traffic.
2. With Traffic detoured from Cory Avenue Sta. 506+00 north of D15 and from 190th St., complete grading and paving of Cory Avenue Sta. 506+00 to EOP and 190th Street from BOP to EOP. Coordinate work with Sac County crews replacing the culverts on 190th Street and Cory Avenue in this section.  
  
Contact for Sac County: Zac Anderson - Sac/Calhoun County Engineer, 712-662-7687.
3. With traffic detoured from the intersection of D15 and Cory Avenue, complete the grading and PCC Paving of D15 and Cory Avenue.
4. Complete project.

111-01  
04-17-12

### COORDINATED OPERATIONS

Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

Project	Type of Work
Sac County Local Crew on Cory Ave and 190th Street	Culvert Replacement/Extension
NHSN-020-2(103)-2R-47	PCC Pavement - Grade and New
NHSN-020-2(108)-2R-47	PCC Pavement - Grade and New

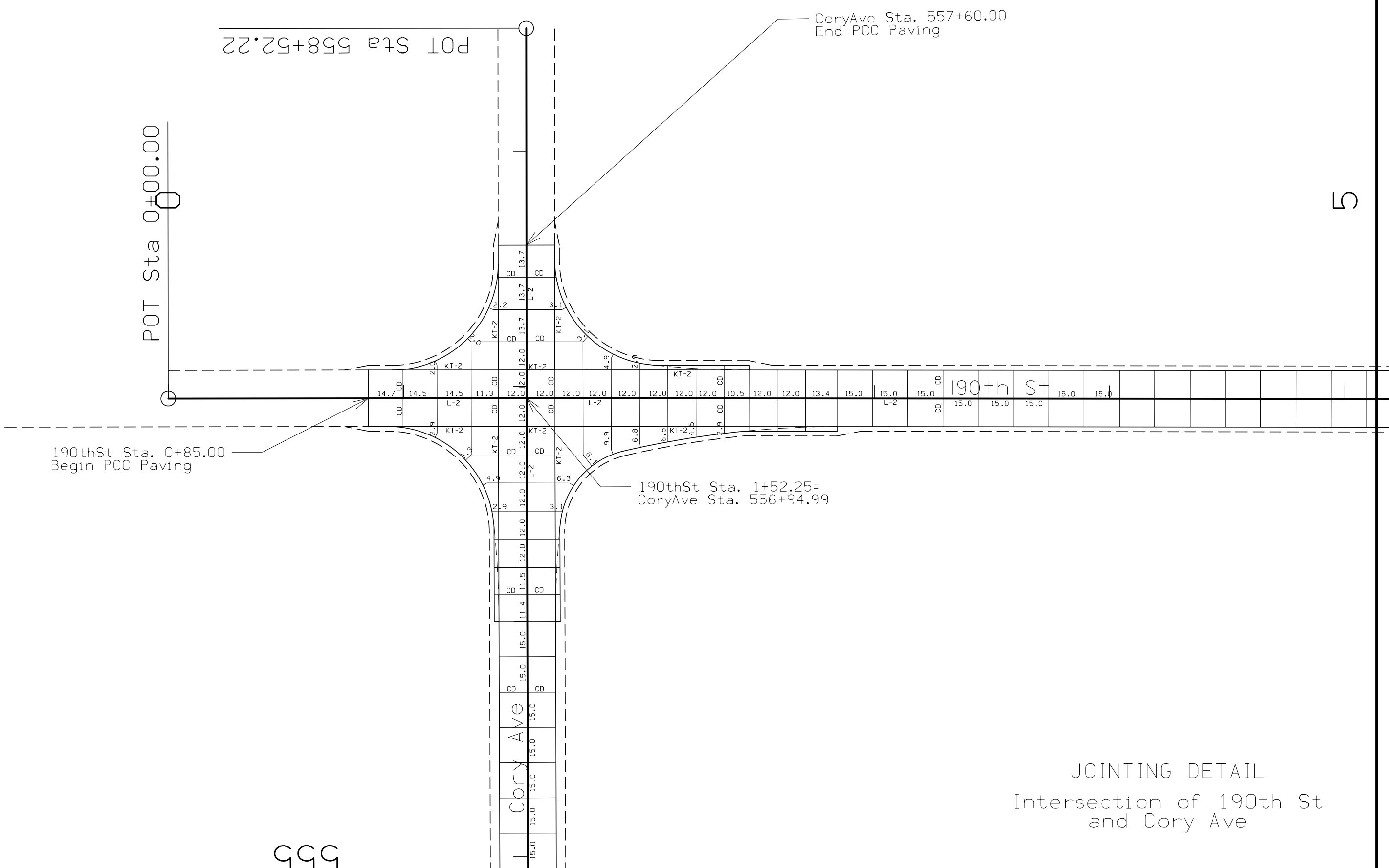


CIRCULAR CURVE SYSTEM						
No	Δ	D	T	L	E	R
1	0° 21' 10.0"	14° 19' 26.2"	1.23	2.46	0.002	400
2	83° 42' 40.4"	127° 19' 26.2"	40.31	65.75	15.42	45
3	90° 02' 12.7"	127° 19' 26.2"	45.03	70.72	18.66	45
4	83° 48' 02.5"	127° 19' 26.2"	40.38	65.82	15.46	45
5	0° 21' 10.0"	14° 19' 26.2"	1.23	2.46	0.002	400
6	7° 26' 03.4"	14° 19' 26.2"	25.99	51.90	0.84	400
7	71° 06' 07.4"	163° 42' 08.0"	25.01	43.43	8.02	35
8	0° 16' 07.6"	14° 19' 26.2"	0.94	1.88	0.001	400

GEOMETRICS AND STAKING DETAIL  
 Intersection of 190th St  
 and Cory Ave

555

5



190thSt Sta. 0+85.00  
Begin PCC Paving

CoryAve Sta. 557+60.00  
End PCC Paving

190thSt Sta. 1+52.25=  
CoryAve Sta. 556+94.99

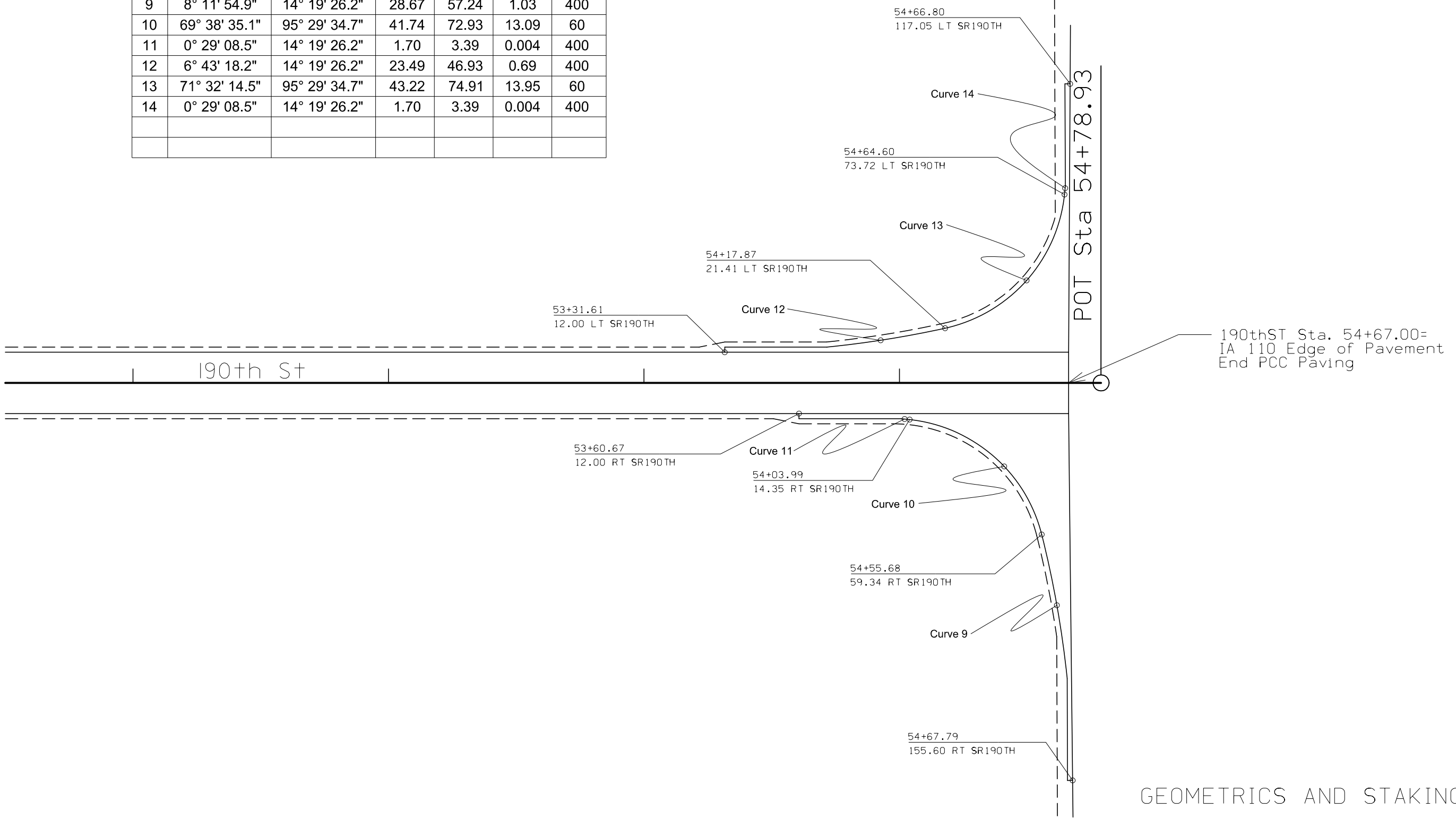
POT Sta 558+52.22

POT Sta 0+00.00

JOINTING DETAIL  
Intersection of 190th St  
and Cory Ave

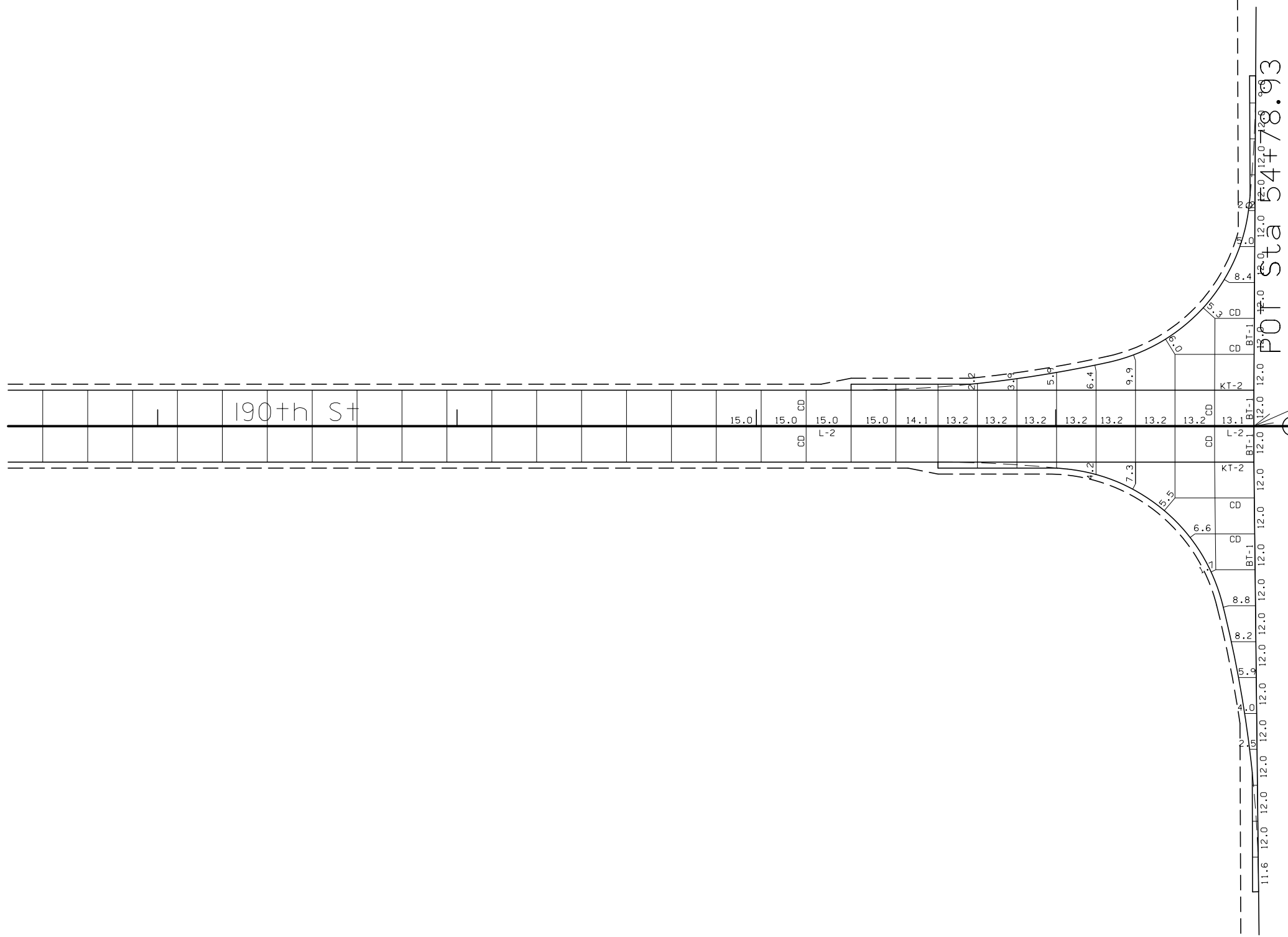
555

CIRCULAR CURVE SYSTEM						
No	$\Delta$	D	T	L	E	R
9	8° 11' 54.9"	14° 19' 26.2"	28.67	57.24	1.03	400
10	69° 38' 35.1"	95° 29' 34.7"	41.74	72.93	13.09	60
11	0° 29' 08.5"	14° 19' 26.2"	1.70	3.39	0.004	400
12	6° 43' 18.2"	14° 19' 26.2"	23.49	46.93	0.69	400
13	71° 32' 14.5"	95° 29' 34.7"	43.22	74.91	13.95	60
14	0° 29' 08.5"	14° 19' 26.2"	1.70	3.39	0.004	400



GEOMETRICS AND STAKING DETAIL  
 Intersection of 190th St  
 and IA 110



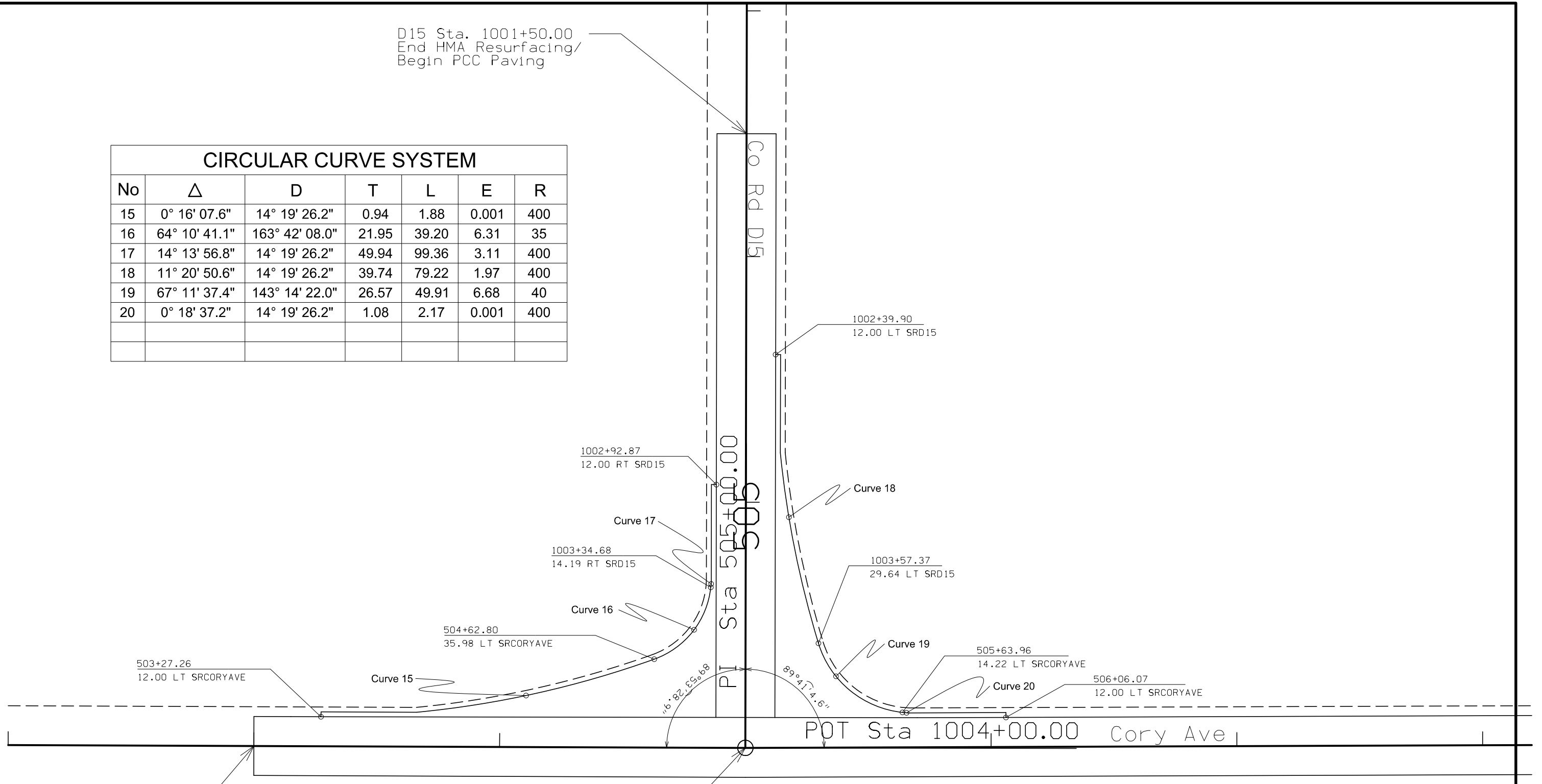


190th St Sta. 54+67.00=  
IA 110 Edge of Pavement  
End PCC Paving

JOINTING DETAIL  
Intersection of 190th St  
and IA 110

D15 Sta. 1001+50.00  
End HMA Resurfacing/  
Begin PCC Paving

CIRCULAR CURVE SYSTEM						
No	Δ	D	T	L	E	R
15	0° 16' 07.6"	14° 19' 26.2"	0.94	1.88	0.001	400
16	64° 10' 41.1"	163° 42' 08.0"	21.95	39.20	6.31	35
17	14° 13' 56.8"	14° 19' 26.2"	49.94	99.36	3.11	400
18	11° 20' 50.6"	14° 19' 26.2"	39.74	79.22	1.97	400
19	67° 11' 37.4"	143° 14' 22.0"	26.57	49.91	6.68	40
20	0° 18' 37.2"	14° 19' 26.2"	1.08	2.17	0.001	400

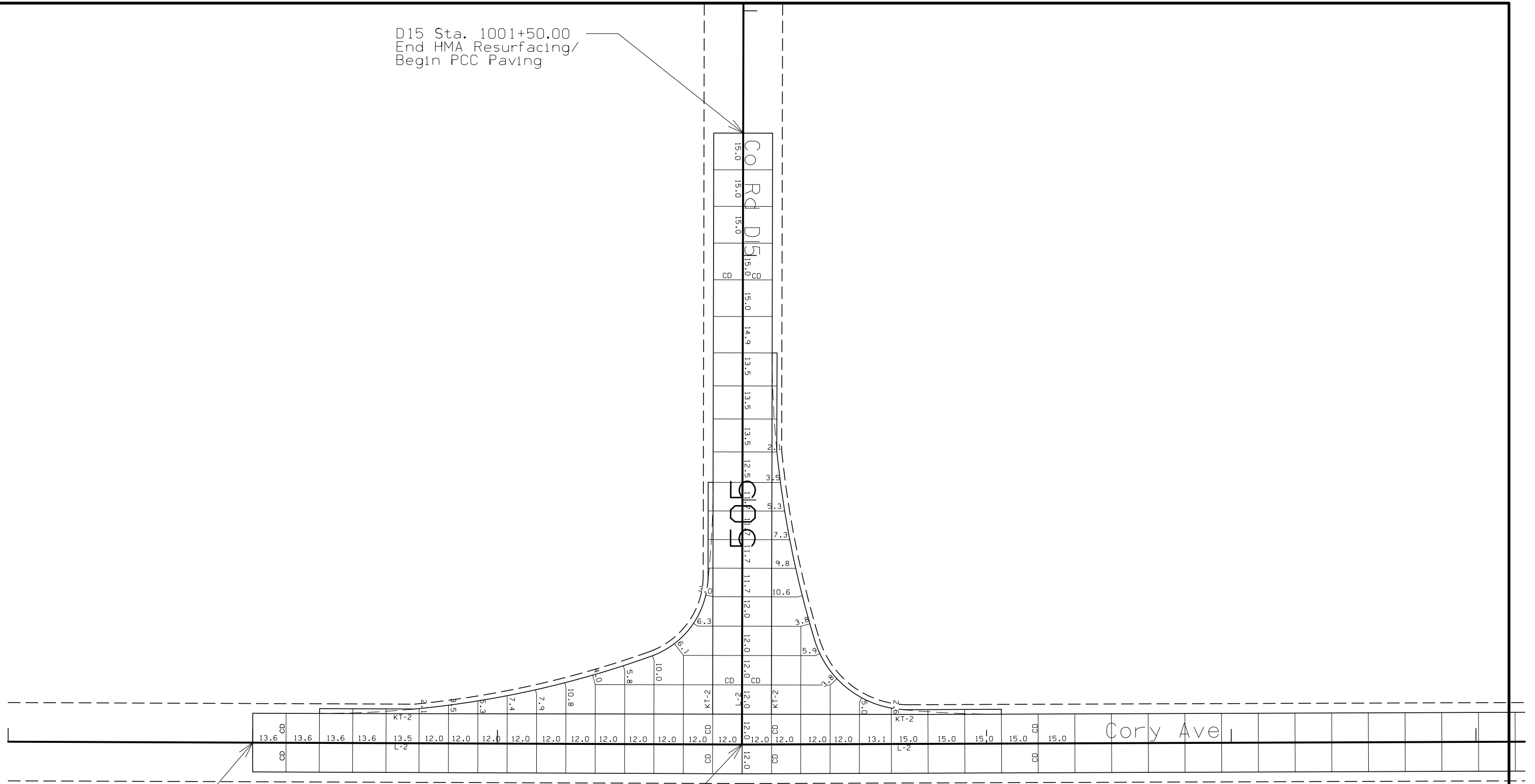


D15 Sta. 1004+00.00=  
CoryAve Sta. 505+00.00

CoryAve Sta. 503+00.00  
Begin PCC Paving

GEOMETRICS AND STAKING DETAIL  
Intersection of Co Rd D15  
and Cory Ave

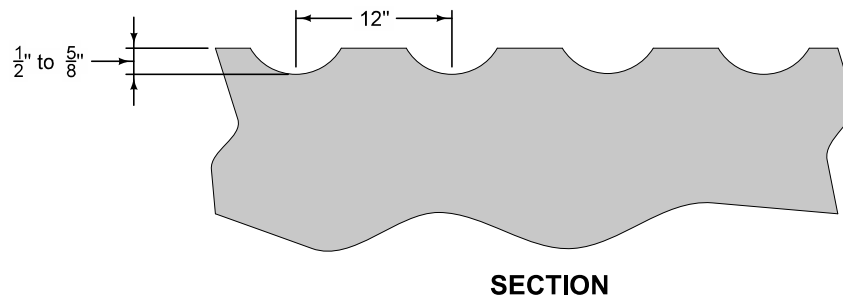
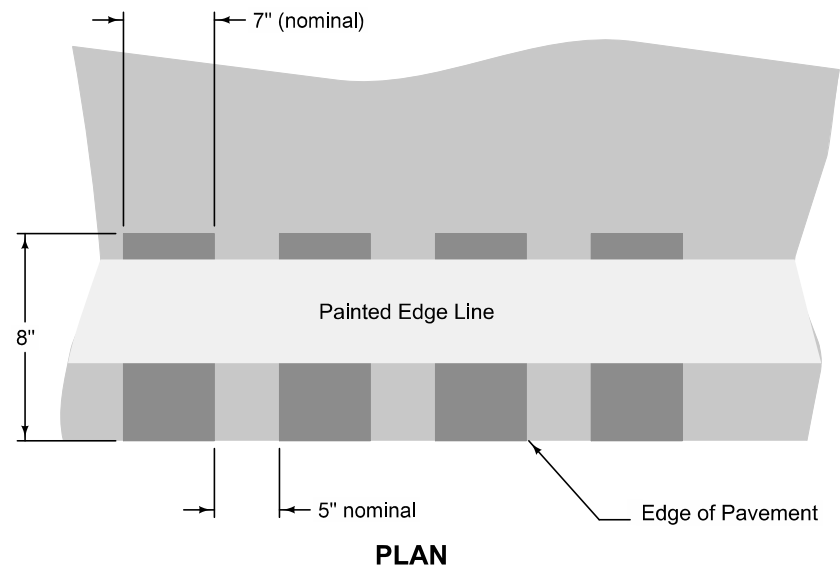
D15 Sta. 1001+50.00  
End HMA Resurfacing/  
Begin PCC Paving



CoryAve Sta. 503+00.00  
Begin PCC Paving

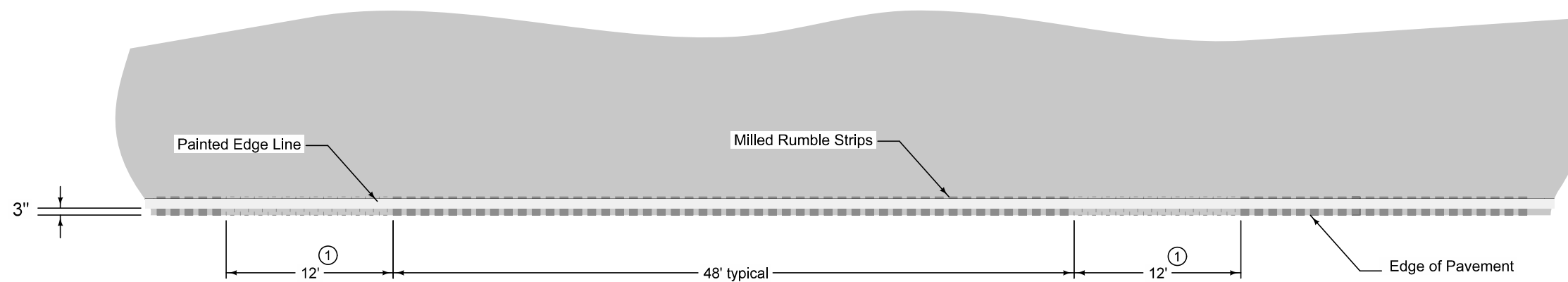
D15 Sta. 1004+00.00=  
CoryAve Sta. 505+00.00

JOINTING DETAIL  
Intersection of Co Rd D15  
and Cory Ave



① Place continuous Milled Rumble Strips (no 12 foot gaps) on all median side shoulders and on all interstate shoulders.

**MILLED RUMBLE STRIP**



Possible Contract Items:  
 Asphalt Emulsion for Fog Seal (Shoulder Rumble Strips)  
 Milled Shoulder Rumble Strips, HMA Surface  
 Milled Shoulder Rumble Strips, PCC Surface

Possible Tabulation:  
 112-10

<b>MODIFIED STANDARD ROAD PLAN</b>	<b>PV-12</b>
	<b>MILLED SHOULDER RUMBLE STRIPE Cory Ave and 190th St</b>

**GAP DETAILS**