

04-24-2020 LETTING ITEM 160

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STANDARDS

000001-07	701006-05	701501-06
001001-02	701011-04	725001-01
280001-07	701201-05	780001-05
406201-01	701206-05	781001-04
442101-09	701301-04	782006-01
630001-12	701306-04	886001-01
630301-09	701311-03	886006-01
631011-10	701336-07	BLR 27-1

UTILITIES

AMEREN (ELECTRIC) 1050 WEST BLVD. BELLEVILLE, IL 62222 (800) 892-7715	AT&T (TELEPHONE) 203 GOETHE ST. COLLINSVILLE, IL 62234 (618) 346-6400
CITY OF O'FALLON (WATER) 255 S. LINCOLN AVE. O'FALLON, IL 62269 (618) 624-5000	PHILLIPS PIPE LINE CO. (GAS) 3300 MISSISSIPPI AVE. CAHOKIA, IL 62206 (618) 337-6066

CALL JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (J.U.L.I.E) BEFORE DIGGING: (800) 892-0123 or 811

ST. CLAIR TOWNSHIP W 1/2, SECTION 4, T.1N., R.8W.
ST. CLAIR TOWNSHIP E 1/2, SECTION 5, T.1N., R.8W.
CASEYVILLE TOWNSHIP E 1/2, SECTION 32, T.2N., R.8W.
CASEYVILLE TOWNSHIP W 1/2, SECTION 33, T.2N., R.8W.

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE SCALES BELOW MAY BE USED.

10	0	10	20
DRAWING SCALE 1" = 10'			
20	0	20	40
DRAWING SCALE 1" = 20'			
40	0	40	80
DRAWING SCALE 1" = 40'			

STATION EQUATIONS

STA. 298+67.30 BK = STA. 298+78.56 AH.
STA. 316+90.36 BK = STA. 316+98.40 AH.
STA. 328+89.87 BK = STA. 329+02.20 AH.
STA. 345+01.45 BK = STA. 346+09.20 AH.

STATE of ILLINOIS

DEPARTMENT OF TRANSPORTATION

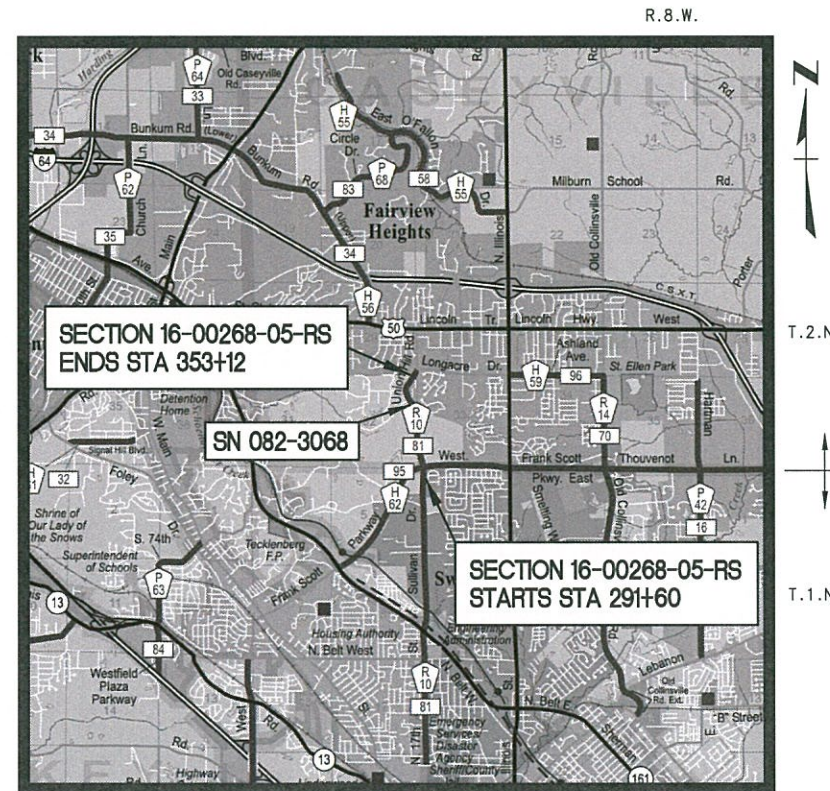
PLANS FOR PROPOSED SURFACE TRANSPORTATION PROGRAM

SECTION 16-00268-05-RS

FAU 9167 - COUNTY HIGHWAY 81

SULLIVAN DRIVE / UNION HILL ROAD

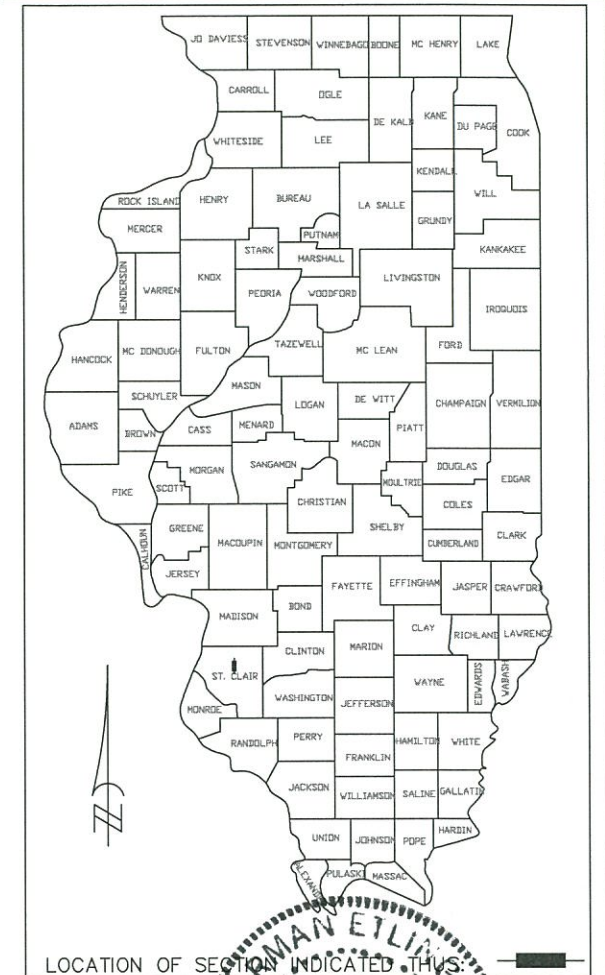
PROJECT NO.: PFIL(104)
JOB NO.: C-98-331-16
ST. CLAIR COUNTY



LOCATION MAP
SCALE: 1 INCH = 1 MILE

GROSS LENGTH OF PROJECT = 6,152.00 FEET (1.165 MILES)
OMISSIONS = 139.38 FEET (DUE TO STA EQUATIONS)
NET LENGTH OF PROJECT = 6,012.62 FEET (1.139 MILES)
ROADWAY DESIGNATION: MAJOR COLLECTOR
DESIGN TRAFFIC (2020) = 11,260 ADT
DESIGN YEAR (2030) = 12,132 ADT
POSTED SPEED: 35 MPH (URBAN) & 45 MPH (RURAL)

FAU ROUTE	FAS ROUTE	SECTION NO.	COUNTY	SHEET OF SHEETS
9167		16-00268-05-RS	ST. CLAIR	1 OF 19
STA. 291+60 TO STA. 353+12				
PROJECT NO. PFIL(104)		CONTRACT #97724		



These plans were prepared by me or by a full-time member of my staff working under my personal supervision.
 Norman Etling, P.E.
 County Engineer
 License Number 62-041820
 License Expiration Date: November 30, 2021

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COUNTY OF ST. CLAIR
DEPARTMENT OF ROADS AND BRIDGES

APPROVED 2/5, 2020

 NORMAN ETLING, P.E. COUNTY ENGINEER

PASSED February 11, 2020

 DISTRICT 8 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW February 11, 2020

 KEITH ROBERTS
 REGION 5 ENGINEER

FAU ROUTE	FAS ROUTE	SECTION NO.	COUNTY	SHEET OF SHEETS
9167		16-00268-05-RS	ST. CLAIR	2 OF 19
GENERAL NOTES, COMMITMENTS, AND TRAFFIC CONTROL PLAN				
PROJECT NO. PFIL(104)			CONTRACT #97724	

GENERAL NOTES

- THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE	HMA SURFACE COURSE
AC/PG	PG 64 - 22
RAP % (MAX)	SEE SPECIFICATION
DESIGN AIR VOIDS	4% N DESIGN = 70
MIX COMPOSITION (GRADATION MIXTURE)	IL - 9.5
FRICTION AGG	MIXTURE D
- A QUANTITY FOR TEMPORARY PAVEMENT MARKING EQUAL TO THE AMOUNT OF PERMANENT PAVEMENT MARKING HAS BEEN INCLUDED IN THE PLANS.
- THE LOCATION OF UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAS BEEN DETERMINED FROM SURFACE OBSERVATIONS, AVAILABLE SURVEYS AND RECORDS, AND MUST BE CONSIDERED APPROXIMATE. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT PRESENTLY SHOWN OR KNOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION. CONTACT J.U.L.I.E. BEFORE DIGGING AT 1-800-892-0123.
- ALL TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED. TERMINAL ENDS SHALL HAVE CRIMPED-ON RING TONGUE CONNECTORS.
- THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
- DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER ARTICLE 873.03 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD DRAWING 886001. CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD. ROSIN-CORE SOLDER SHALL BE USED.
- AN APPROXIMATE QUANTITY OF 2 TONS FOR PAY ITEM "MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS" IS INCLUDED IN THE "SUMMARY OF QUANTITIES" IN ORDER TO ESTABLISH A UNIT COST FOR WORK WHICH MAY BE REQUIRED TO CONSTRUCT THIS SECTION. THE ACTUAL QUANTITY OF THE ITEM SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

FACTORS USED FOR QUANTITY CALCULATION

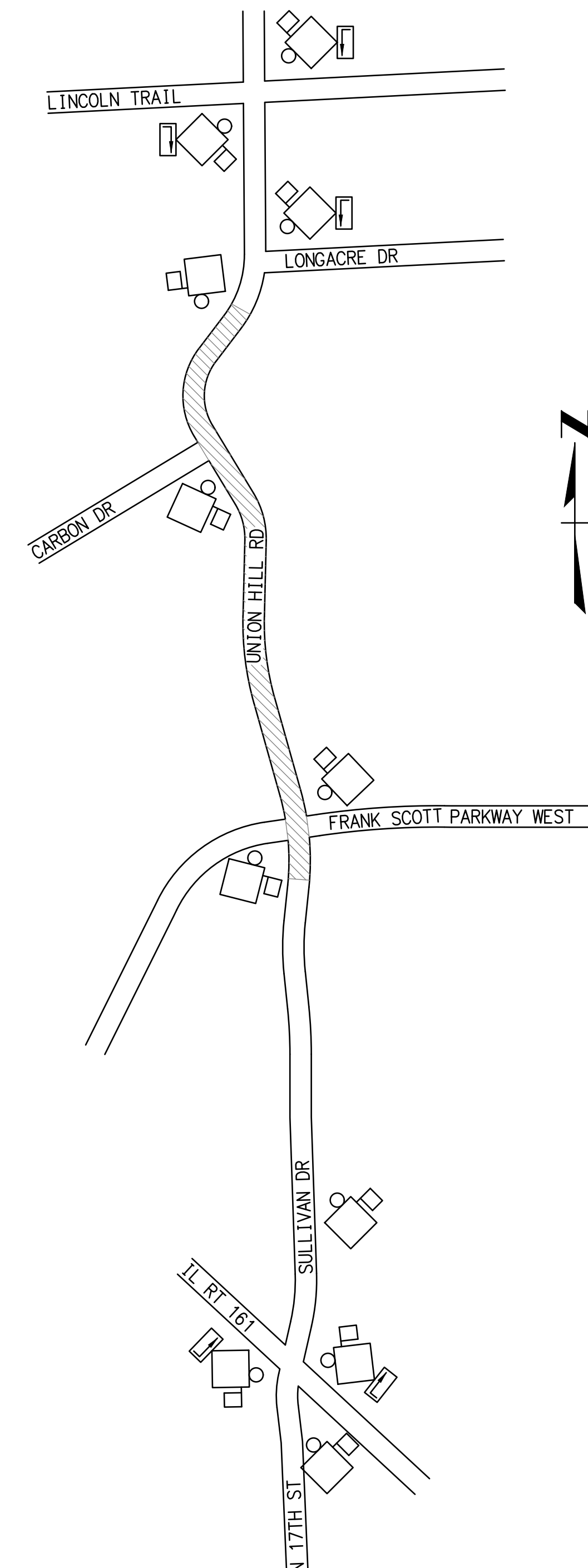
- AGGREGATE AND AGGREGATE WEDGE SHOULDER: 2.1 TON/CU YD
- AGGREGATE SURFACE COURSE: 2.1 TON/CU YD
- BITUMINOUS MATERIALS (TACK COAT): 0.05 LB/SQ FT
- HOT-MIX ASPHALT SURFACE COURSE, MIXTURE D, N70: 112 LB/SQ YD/INCH
- INCIDENTAL HOT-MIX ASPHALT SURFACING: 2.016 TON/CU YD
- NITROGEN FERTILIZER NUTRIENT: 90 LB/ACRE
- PHOSPORUS FERTILIZER NUTRIENT: 90 LB/ACRE
- POTASSIUM FERTILIZER NUTRIENT: 90 LB/ACRE
- A-2 SURFACE TREATMENT:
 - BITUMINOUS MATERIALS (COVER & SEAL COAT): 2.7 LB/SQ YD
 - SEAL COAT AGGREGATE: 20 LB/SQ YD
 - COVER COAT AGGREGATE: 20 LB/SQ YD
 - BITUMINOUS MATERIALS (PRIME COAT): 3.14 LB/SQ YD

COMMITMENTS

NONE

TRAFFIC CONTROL PLAN

- NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED—EXCEPT FOR PAVEMENT PATCHING. THE ROADWAY SHALL REMAIN OPEN TO TRAFFIC DURING CONSTRUCTION.
- FLAGGERS SHALL BE PRESENT DURING ALL CLOSURE HOURS, INCLUDING LUNCH HOUR, AND NO ADDITIONAL COMPENSATION SHALL BE APPLIED.
- ALL WARNING SIGNS SHALL BE A MINIMUM OF 48"x48" AND HAVE A BLACK LEGEND ON AN ORANGE REFLECTORIZED BACKGROUND.
- TYPE A FLASHING LIGHTS SHALL BE USED ON EACH ADVANCED WARNING SIGN.



- LEGEND**
- ROAD CONSTRUCTION AHEAD W20-1103(0)-48
 - WORK AREA

FAU ROUTE	FAS ROUTE	SECTION NO.	COUNTY	SHEET OF SHEETS
9167		16-00268-05-RS	ST. CLAIR	3 OF 19
SUMMARY OF QUANTITIES				
PROJECT NO. PFIL(104)		CONTRACT #97724		

SUMMARY OF QUANTITIES

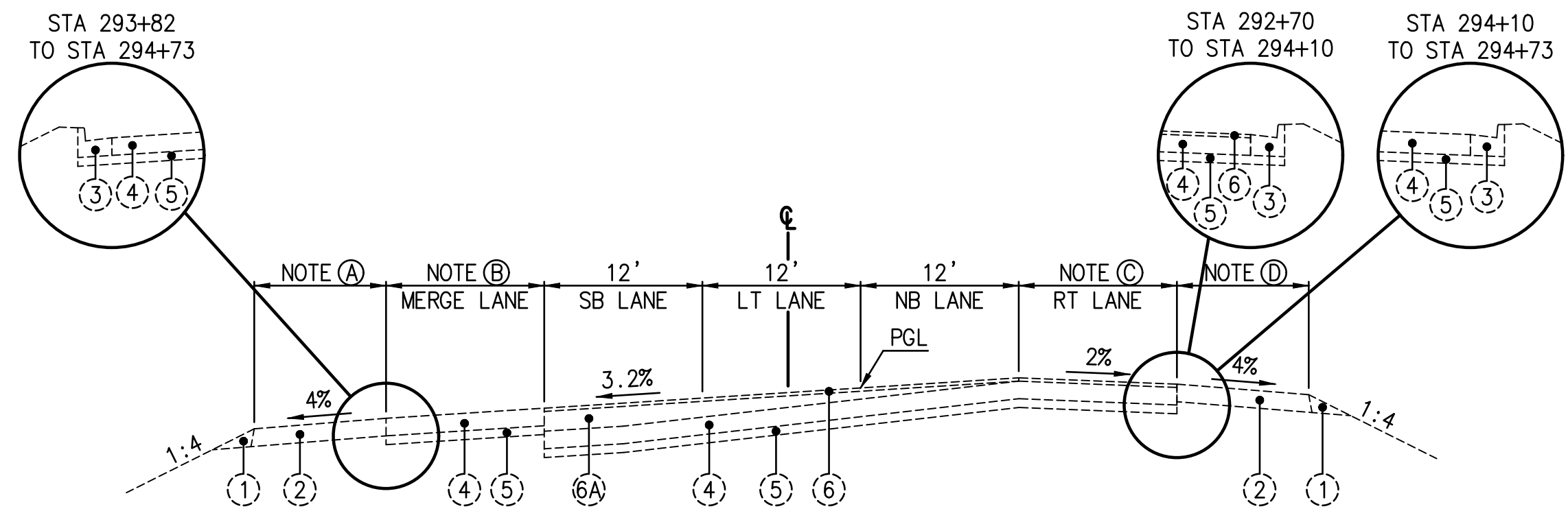
CODE NO.	ITEM	UNIT	QUANTITY
20400800	FURNISHED EXCAVATION	CU YD	165
25000200	SEEDING, CLASS 2	ACRE	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23
25100115	MULCH METHOD 2	ACRE	0.25
28000400	PERIMETER EROSION BARRIER	FOOT	715
28000500	INLET AND PIPE PROTECTION	EACH	3
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	25
40300200	BITUMINOUS MATERIALS (PRIME COAT)	TON	17.2
40300400	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	TON	25
40300500	COVER COAT AGGREGATE	TON	92
40300600	SEAL COAT AGGREGATE	TON	92
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	8426
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	2
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	143
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	138
40600990	TEMPORARY RAMP	SQ YD	169
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	2861
40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	213
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	79
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	2455
44200050	WELDED WIRE REINFORCEMENT	SQ YD	86
44200934	CLASS B PATCHES, TYPE II, 8 INCH	SQ YD	977
44200942	CLASS B PATCHES, TYPE III, 8 INCH	SQ YD	86
44201298	DOWEL BARS 1 1/4"	EACH	2584
44213200	SAW CUTS	FOOT	6233
48101200	AGGREGATE SHOULDERS, TYPE B	TON	405
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	366
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	275

* : DENOTES SPECIALTY ITEM

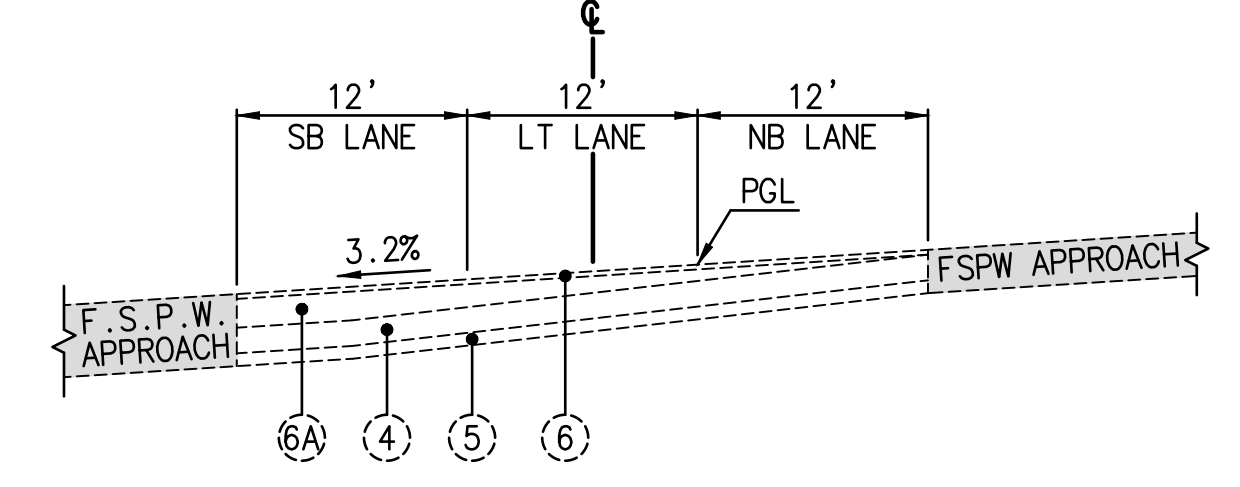
CODE NO.	ITEM	UNIT	QUANTITY
* 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	6
63200310	GUARDRAIL REMOVAL	FOOT	470
67100100	MOBILIZATION	LSUM	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	LSUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1384
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	461
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	94
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	24989
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	195
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	184
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	48
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	6
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	94
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	24989
* 78001140	PAINT PAVEMENT MARKING - LINE 8"	FOOT	195
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	184
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	48
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	143
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	12
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	69
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	131
* 88600100	DETECTOR LOOP, TYPE I	FOOT	2037
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	66
X0327301	RELOCATE EXISTING MAILBOX	EACH	6
Z0010600	CLEANING DRAINAGE SYSTEM	FOOT	526
Z0010615	CLEANING EXISTING INLETS	EACH	4

* : DENOTES SPECIALTY ITEM

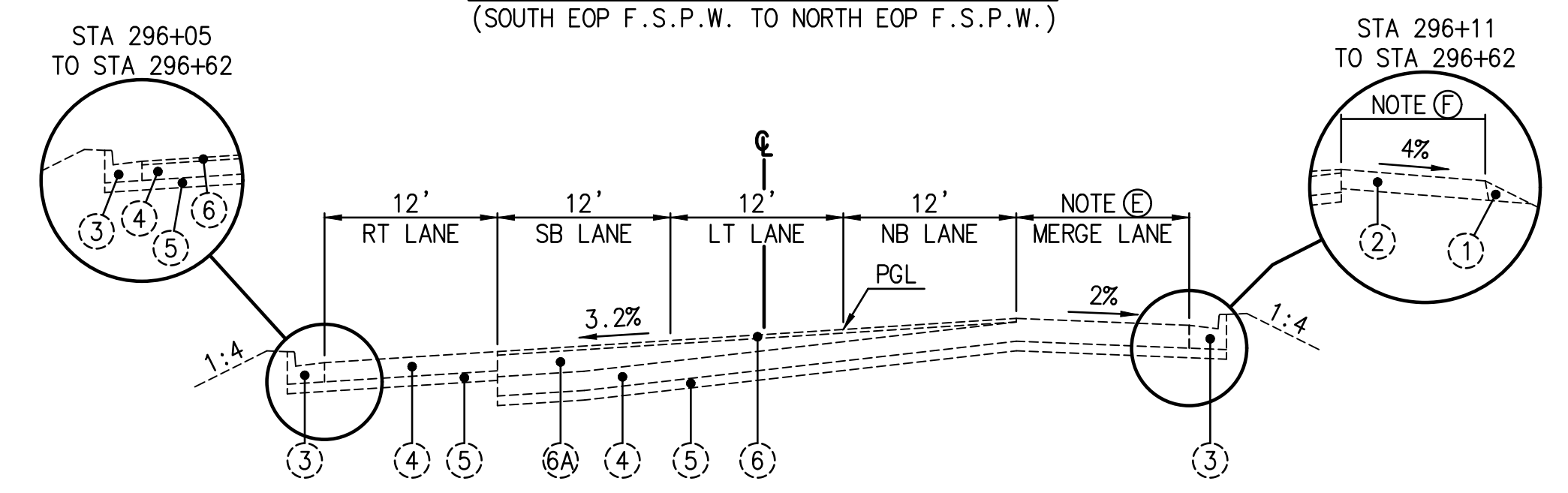
FAU ROUTE	FAS ROUTE	SECTION NO.	COUNTY	SHEET OF SHEETS
9167		16-00268-05-RS	ST. CLAIR	4 OF 19
EXISTING TYPICAL SECTIONS				
PROJECT NO. PFIL(104)			CONTRACT #97724	



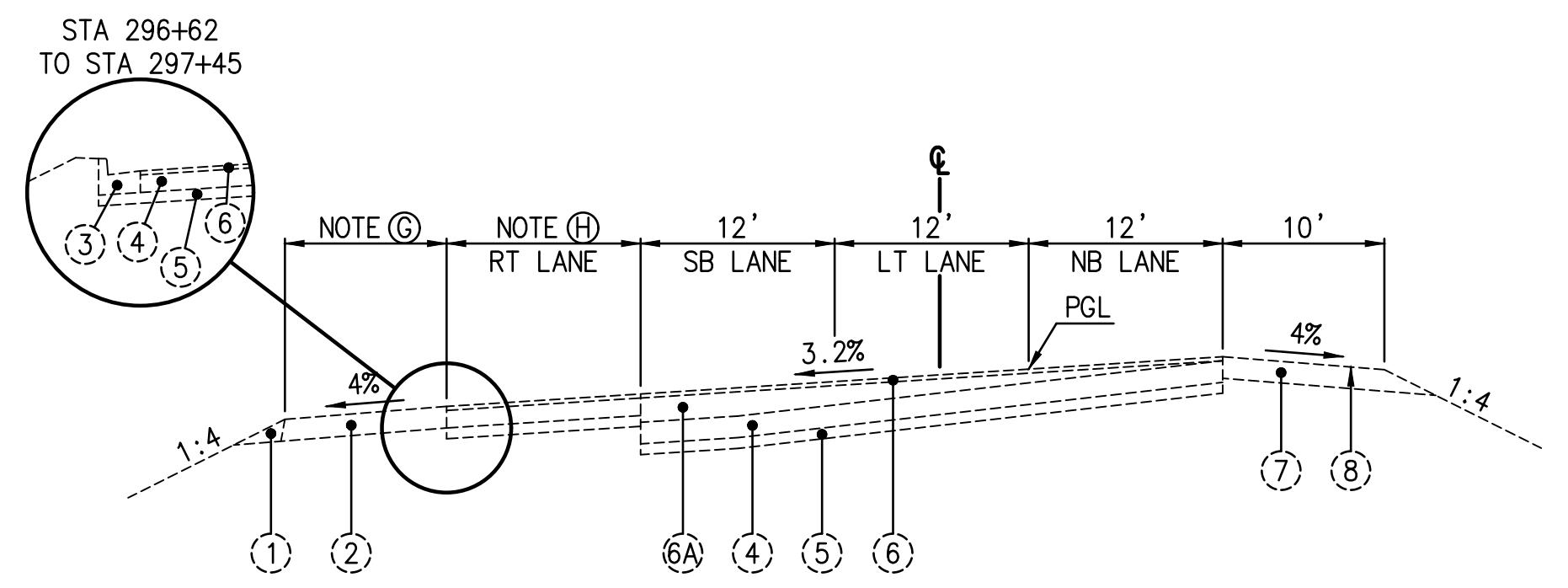
STA 291+60 TO STA 294+73 (SOUTH EOP F.S.P.W.)



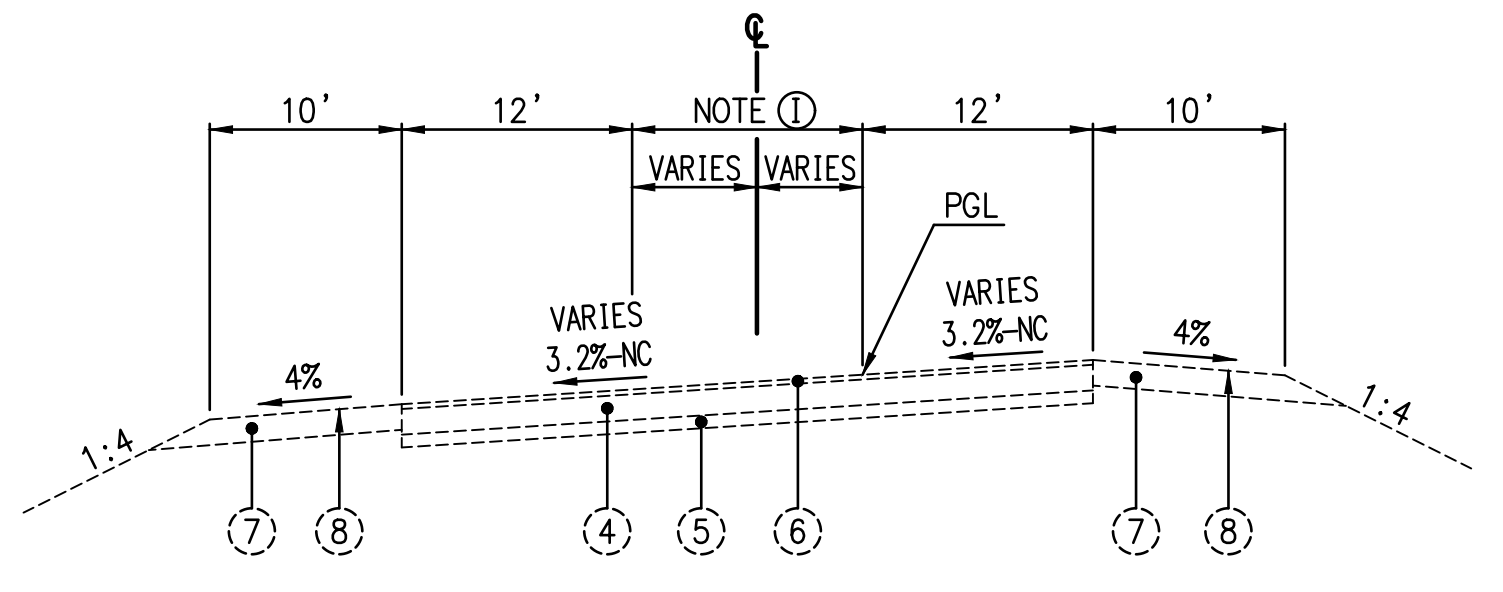
STA 294+73 TO STA 295+33 (SOUTH EOP F.S.P.W. TO NORTH EOP F.S.P.W.)



STA 295+33 (NORTH EOP F.S.P.W.) TO STA 296+62



STA 296+62 TO STA 298+47



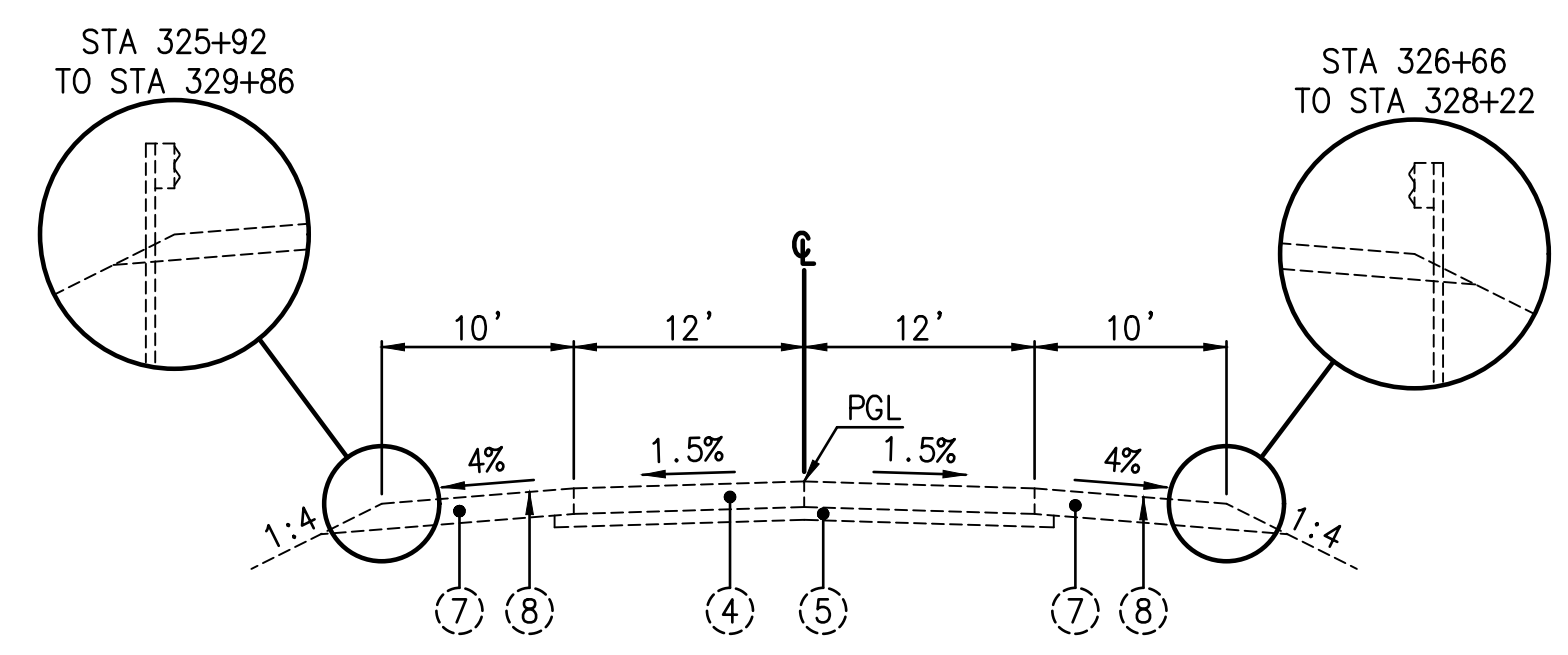
STA 298+47 TO STA 302+18

LEGEND

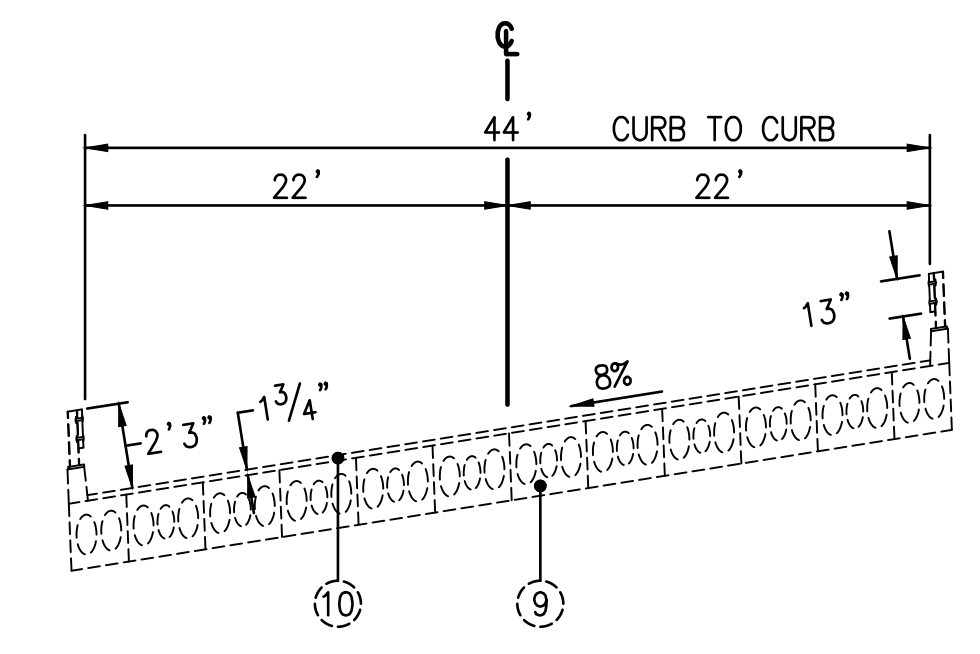
- ① EX AGGREGATE WEDGE
- ② EX HMA SHOULDER, 8"
- ③ EX COMB CONC C&G, TYPE B-6.24
- ④ EX PCC PAVEMENT, 8"
- ⑤ EX STABILIZED SUB-BASE, 4"
- ⑥ EX HMA OVERLAY, 1.6"
- ⑥A EX LEVELING BINDER, DEPTH VARIES
- ⑦ EX AGGREGATE SHOULDER, 8"
- ⑧ EX OIL & CHIP SEAL COAT
- ⑨ EX PRECAST PRESTRESSED DECK BEAMS (21" DEPTH)
- ⑩ EX WATERPROOFING MEMBRANE SYSTEM W/ HMA SURFACE, 1 3/4"

NOTES

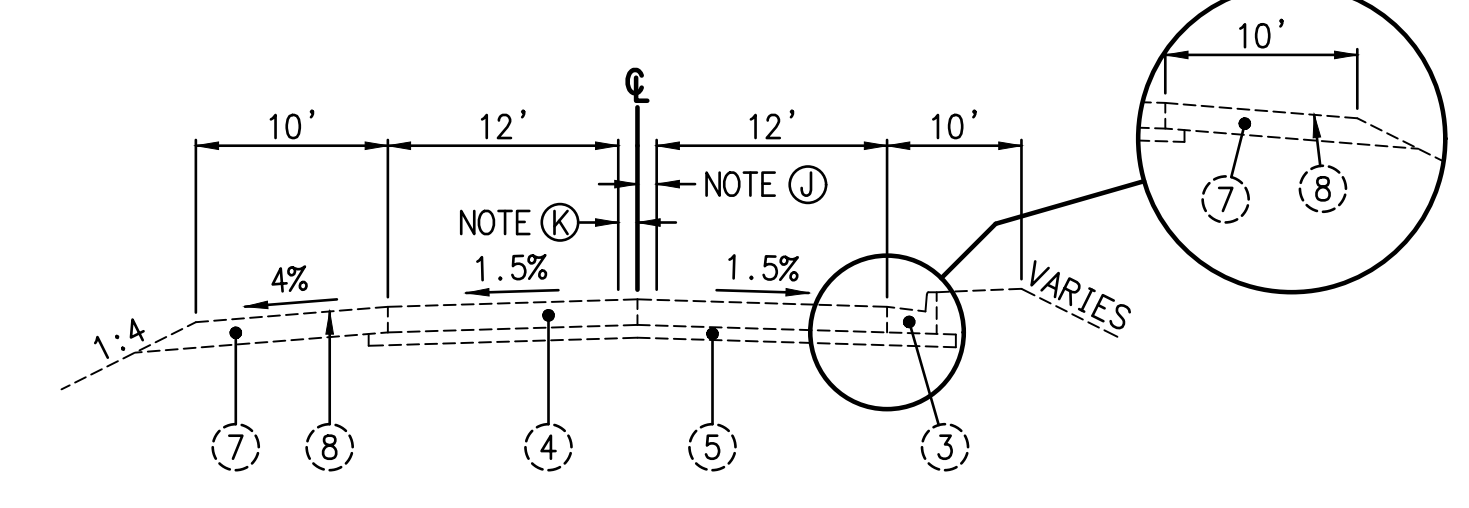
- (A) 10' FROM STA 291+60 TO STA 293+38
VARIES 10' TO 3' FROM STA 293+38 TO STA 293+82
- (B) VARIES 1' TO 12' FROM STA 293+38 TO STA 294+73
- (C) VARIES 1' TO 12' FROM STA 291+65 TO STA 293+47
12' FROM STA 293+47 TO STA 294+73
- (D) VARIES 10' TO 7' FROM STA 291+60 TO STA 292+70
- (E) VARIES 12' TO 1' FROM STA 295+33 TO STA 296+40
- (F) VARIES 4.5' TO 10' FROM STA 296+11 TO STA 296+62
- (G) VARIES 2' TO 9' FROM STA 297+45 TO STA 298+47
- (H) VARIES 12' TO 1' FROM STA 296+62 TO STA 298+47
- (I) 12' FROM STA 298+47 TO STA 299+12
VARIES 12' TO 0' FROM STA 299+12 TO STA 302+18
- (J) VARIES 0' TO 1' FROM STA 339+90 TO STA 340+50
1' FROM STA 340+50 TO STA 342+00
- (K) VARIES 0' TO 1' FROM STA 341+40 TO STA 342+00
- (L) VARIES 0' TO 7.5' FROM STA 350+00 TO STA 353+00
7.5' FROM STA 353+00 TO END



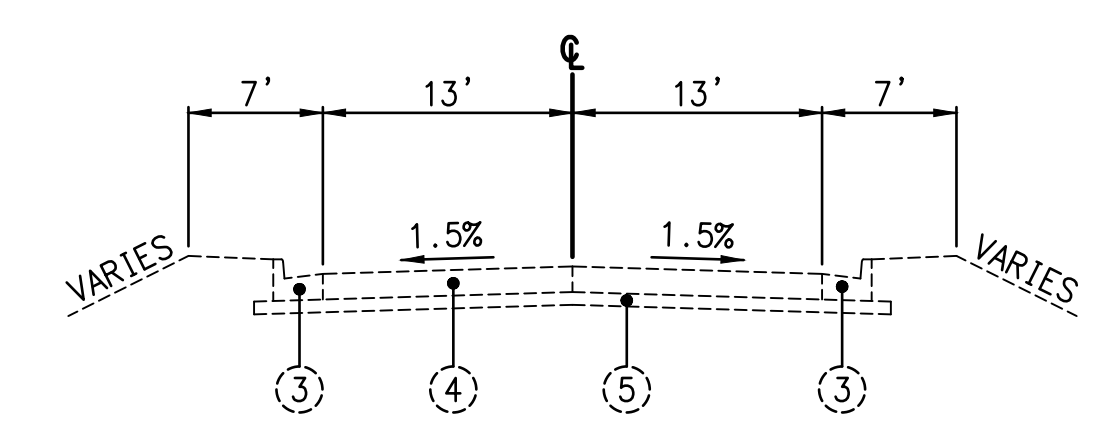
STA 302+18 TO STA 327+43
STA 327+83 TO STA 339+90



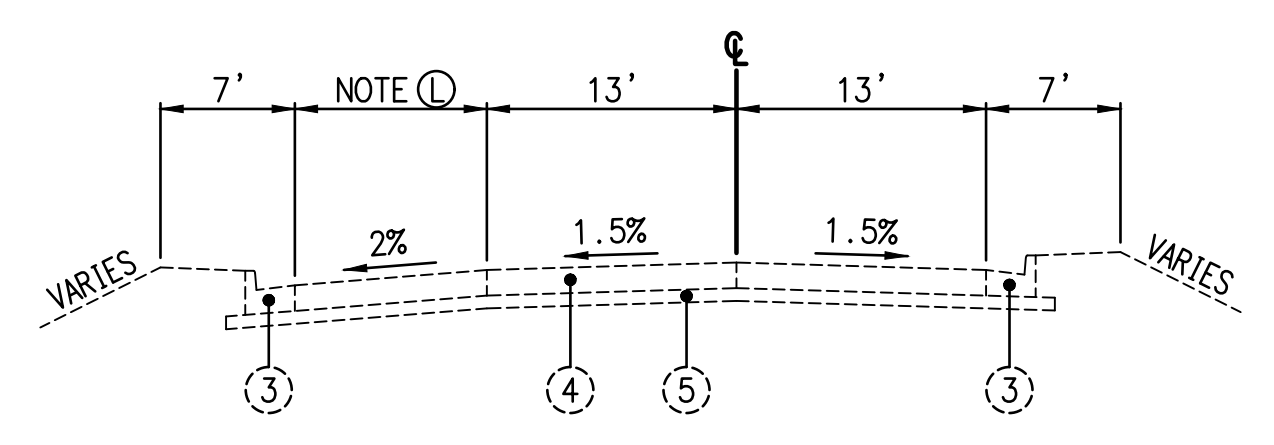
STA 327+43 TO STA 327+83 (SECTION THRU BRIDGE DECK)



STA 339+90 TO STA 342+00

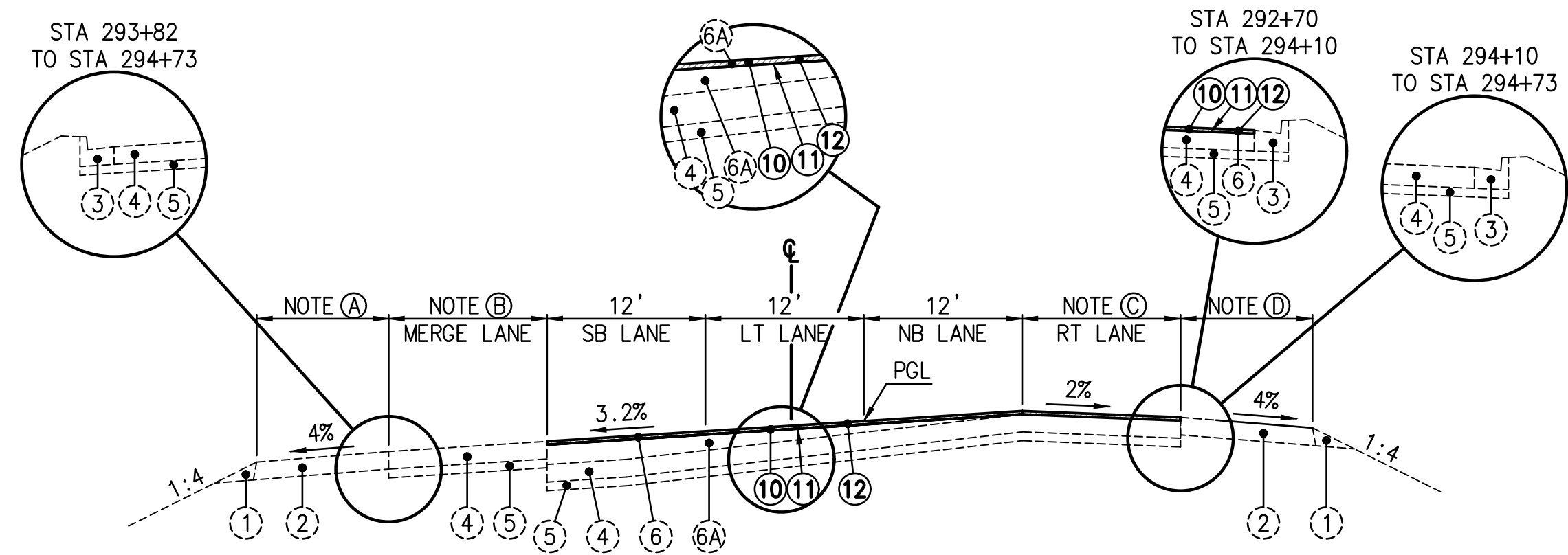


STA 342+00 TO STA 350+00

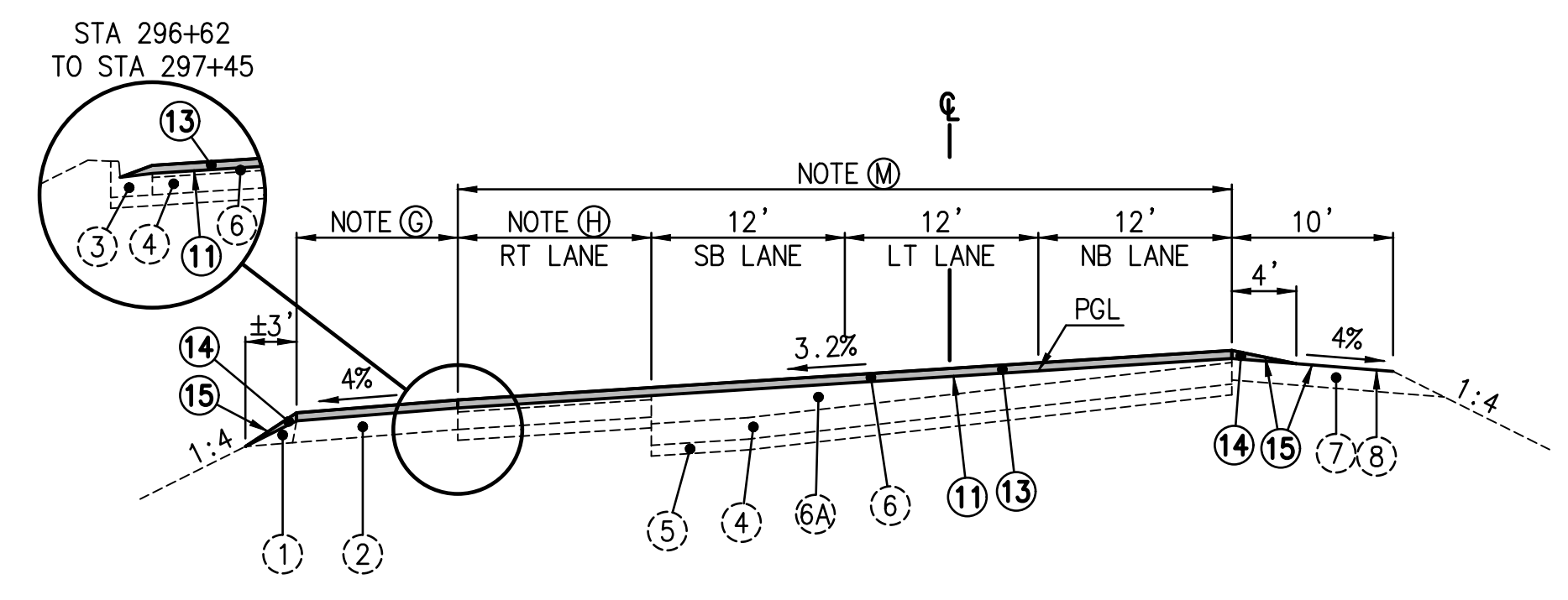


STA 350+00 TO STA 353+12

FAU ROUTE	FAS ROUTE	SECTION NO.	COUNTY	SHEET OF SHEETS
9167		16-00268-05-RS	ST. CLAIR	5 OF 19
PROPOSED TYPICAL SECTIONS				
PROJECT NO. PFIL(104)			CONTRACT #97724	



STA 291+60 TO STA 294+73 (SOUTH EOP F.S.P.W.)



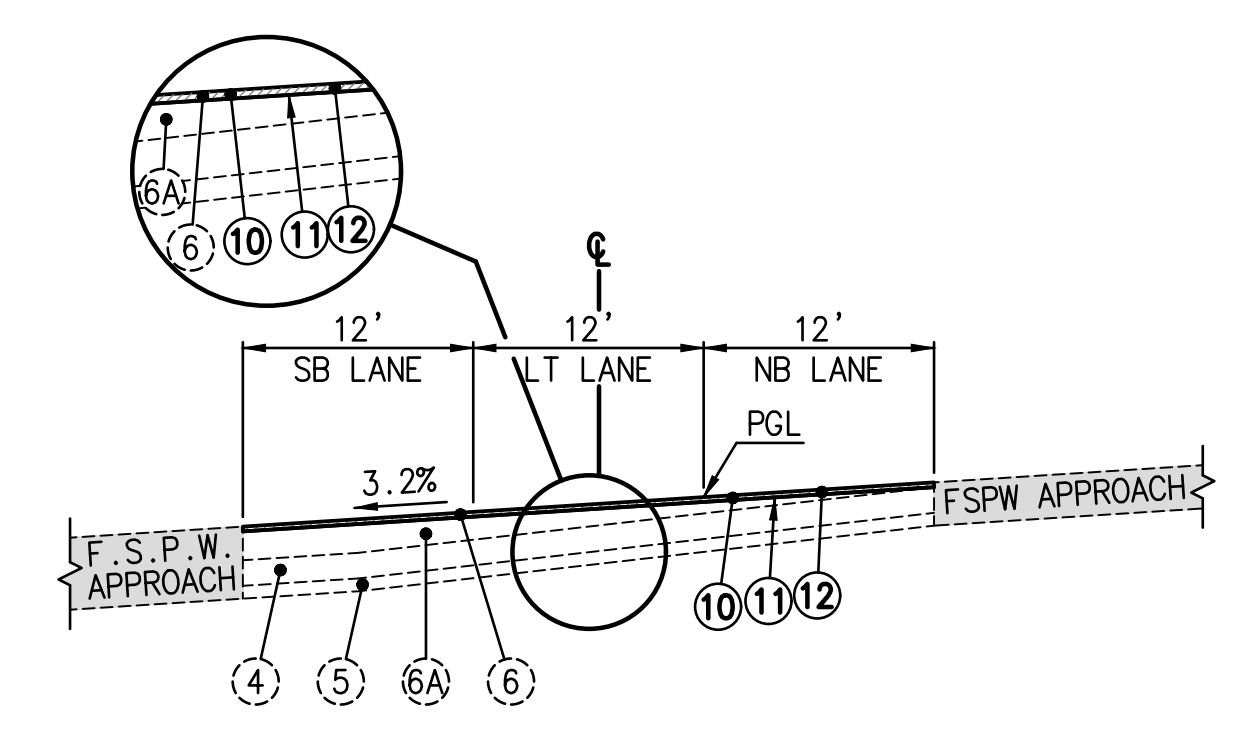
STA 296+62 TO STA 298+47

LEGEND

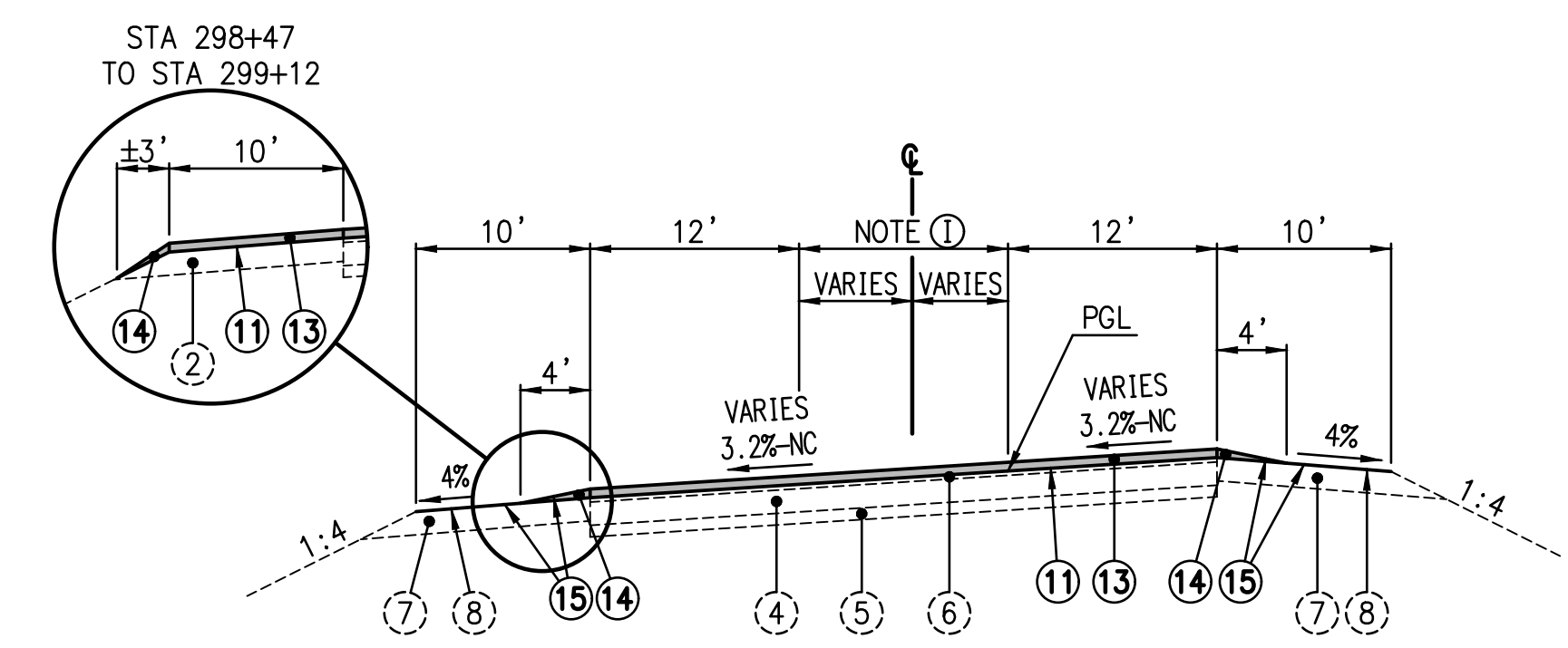
- ① EX AGGREGATE WEDGE
- ② EX HMA SHOULDER, 8"
- ③ EX COMB CONC C&G, TYPE B-6.24
- ④ EX PCC PAVEMENT, 8"
- ⑤ EX STABILIZED SUB-BASE, 4"
- ⑥ EX HMA OVERLAY, 1.6"
- ⑥A EX LEVELING BINDER, DEPTH VARIES
- ⑦ EX AGGREGATE SHOULDER, 8"
- ⑧ EX OIL & CHIP SEAL COAT
- ⑨ EX PRECAST PRESTRESSED DECK BEAMS (21" DEPTH)
- ⑩ PR HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- ⑪ PR BITUMINOUS MATERIALS (TACK COAT)
- ⑫ PR HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1 1/2"
- ⑬ PR HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 3"
- ⑭ PR AGGREGATE WEDGE SHOULDER, TYPE B
- ⑮ PR CLASS A-2 BITUMINOUS SURFACE TREATMENT

NOTES

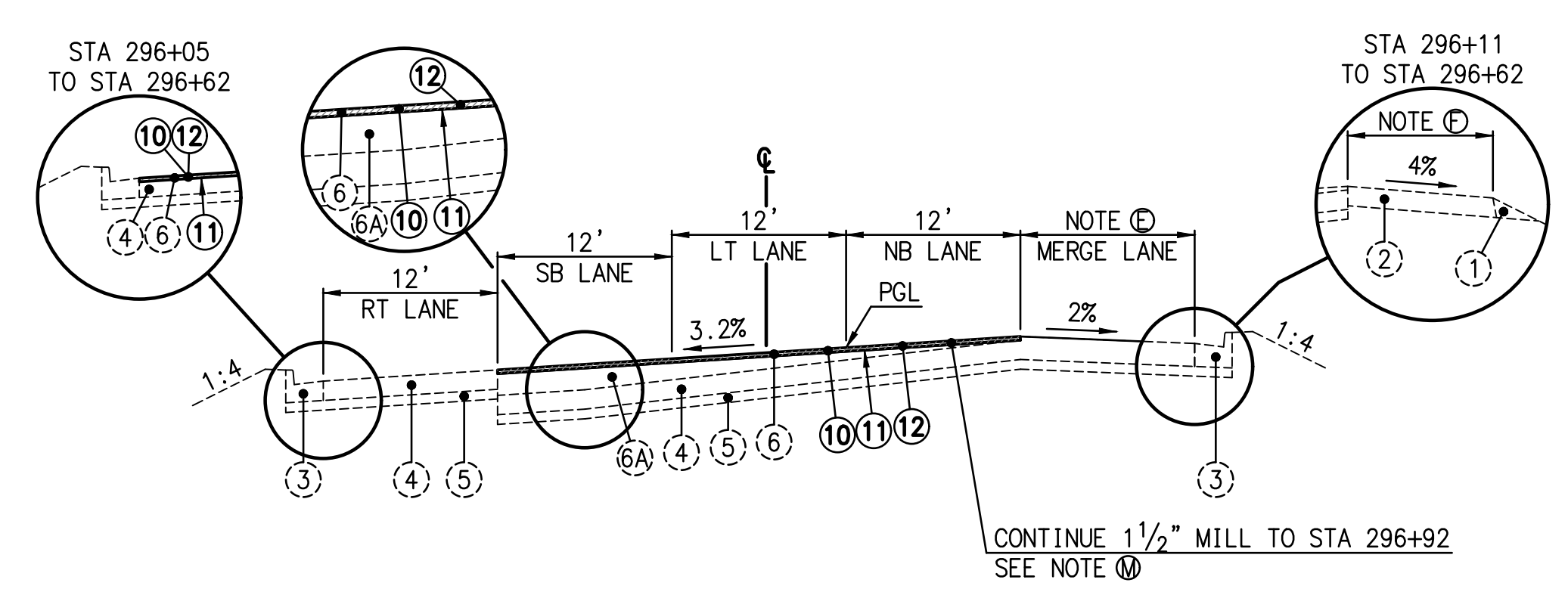
- (A) 10' FROM STA 291+60 TO STA 293+38
VARIES 10' TO 3' FROM STA 293+38 TO STA 293+82
- (B) VARIES 1' TO 12' FROM STA 293+38 TO STA 294+73
- (C) VARIES 1' TO 12' FROM STA 291+65 TO STA 293+47
12' FROM STA 293+47 TO STA 294+73
- (D) VARIES 10' TO 7' FROM STA 291+60 TO STA 292+70
- (E) VARIES 12' TO 1' FROM STA 295+33 TO STA 296+40
- (F) VARIES 4.5' TO 10' FROM STA 296+11 TO STA 296+62
- (G) VARIES 2' TO 9' FROM STA 297+45 TO STA 298+47
- (H) VARIES 12' TO 1' FROM STA 296+62 TO STA 298+47
- (I) 12' FROM STA 298+47 TO STA 299+12
VARIES 12' TO 0' FROM STA 299+12 TO STA 302+18
- (J) VARIES 0' TO 1' FROM STA 339+90 TO STA 340+50
1' FROM STA 340+50 TO STA 342+00
- (K) VARIES 0' TO 1' FROM STA 341+40 TO STA 342+00
- (L) VARIES 0' TO 7.5' FROM STA 350+00 TO STA 353+00
7.5' FROM STA 353+00 TO END
- (M) TRANSITION FROM 1 1/2" MILL & FILL TO 3" OVERLAY
FROM STA 296+62 TO STA 297+22
(1 1/2" MILL FROM STA 296+62 TO 296+92)
- (N) TRANSITION FROM 3" TO 1 1/2" OVERLAY - STA 327+13 TO 327+43
TRANSITION FROM 1 1/2" TO 3" OVERLAY - STA 327+83 TO 328+13



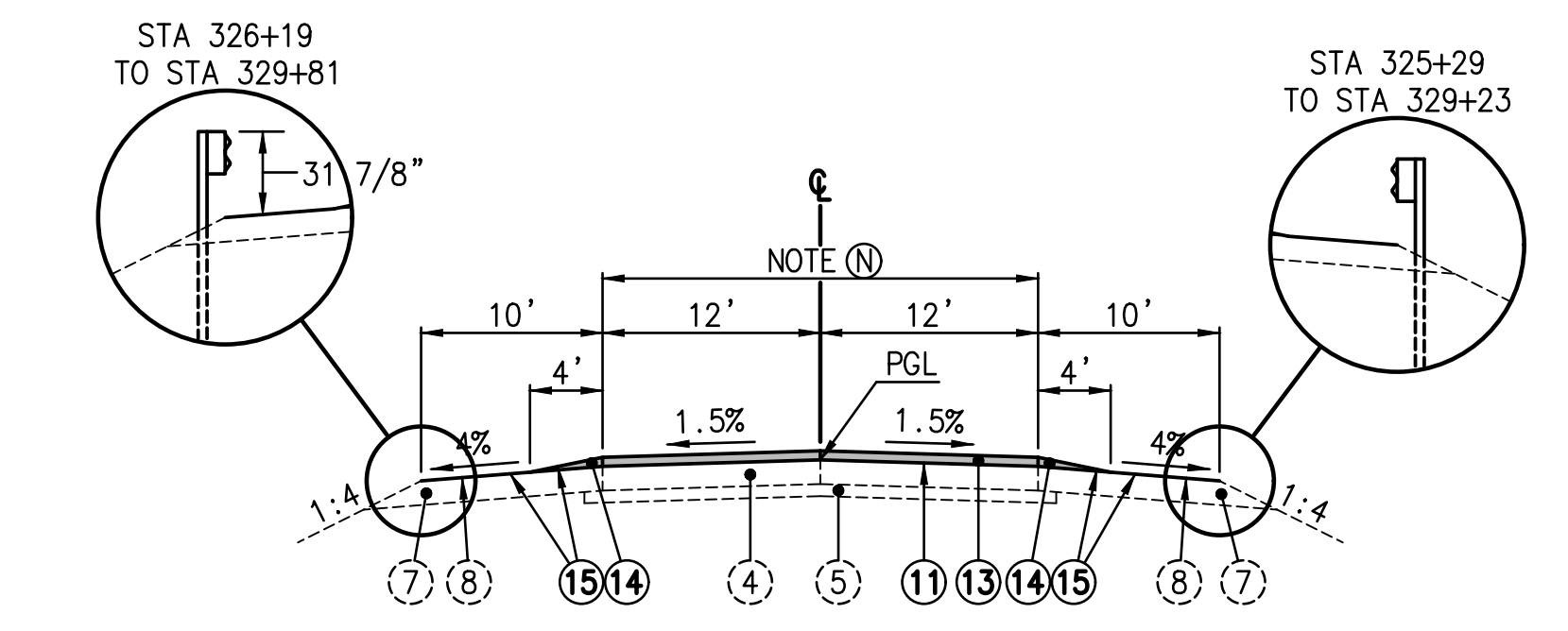
STA 294+73 TO STA 295+33
(SOUTH EOP F.S.P.W. TO NORTH EOP F.S.P.W.)



STA 298+47 TO STA 302+18

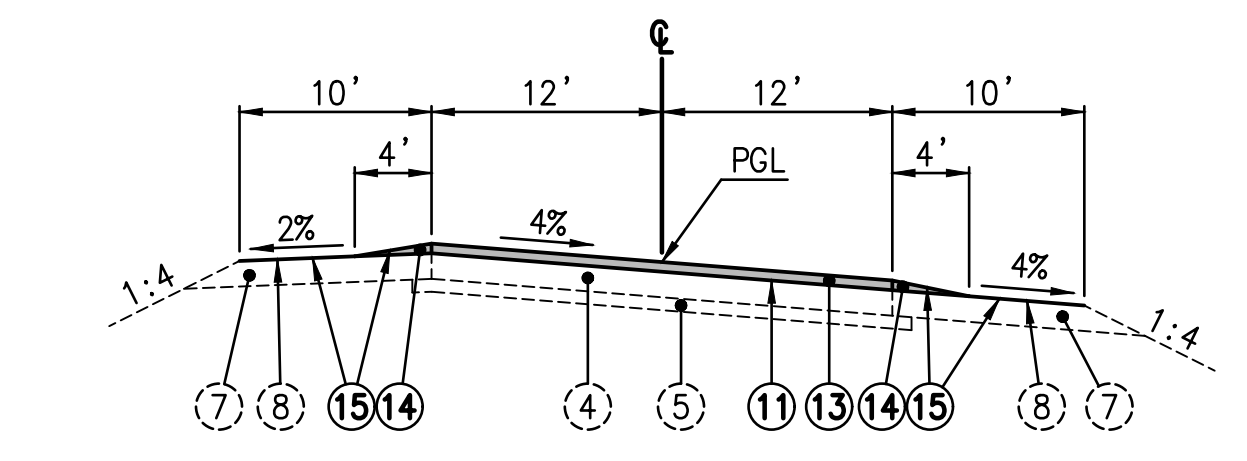


STA 295+33 (NORTH EOP F.S.P.W.) TO STA 296+62



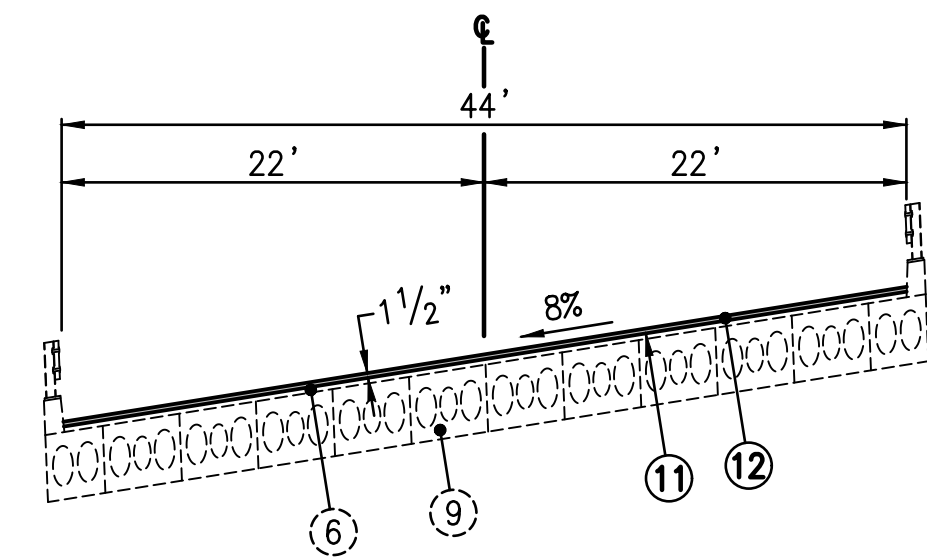
STA 302+18 TO STA 308+87
STA 316+40 TO STA 325+21
STA 328+26 TO STA 337+47

NOTE: SEE SHEET No. 13 FOR SHOULDER BUILDUP ON SUPER ELEVATION SECTIONS.



STA 308+87 TO STA 316+40

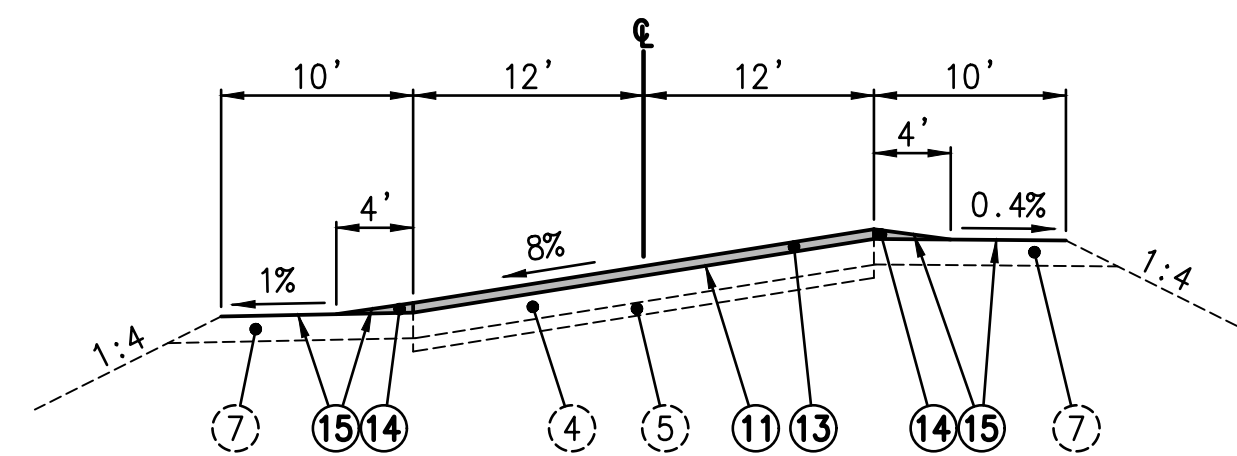
FAU ROUTE	FAS ROUTE	SECTION NO.	COUNTY	SHEET OF SHEETS
9167		16-00268-05-RS	ST. CLAIR	6 OF 19
PROPOSED TYPICAL SECTIONS				
PROJECT NO. PFIL(104)			CONTRACT #97724	



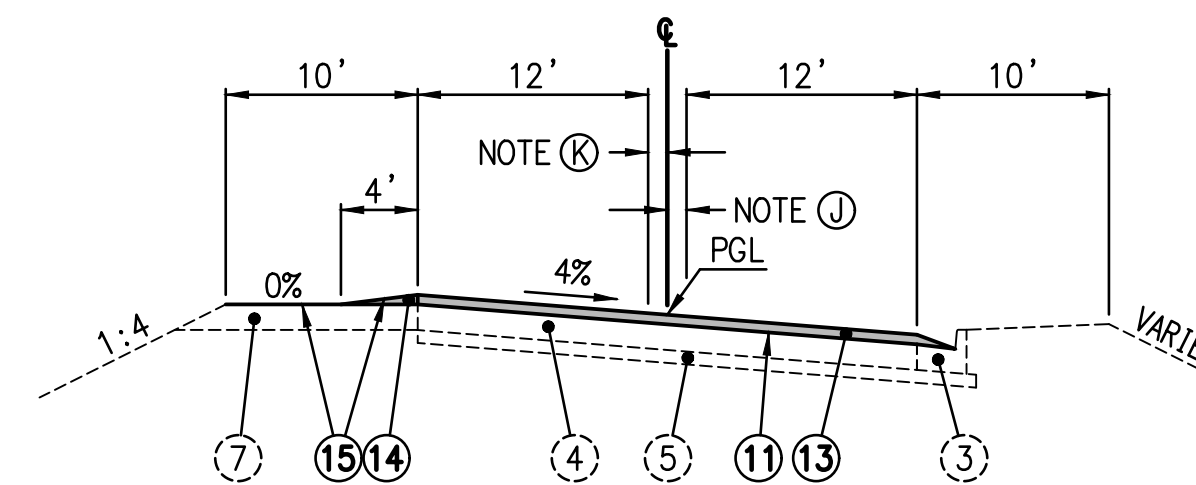
**STA 327+43 TO STA 327+83
(SECTION THRU BRIDGE DECK)**

LEGEND

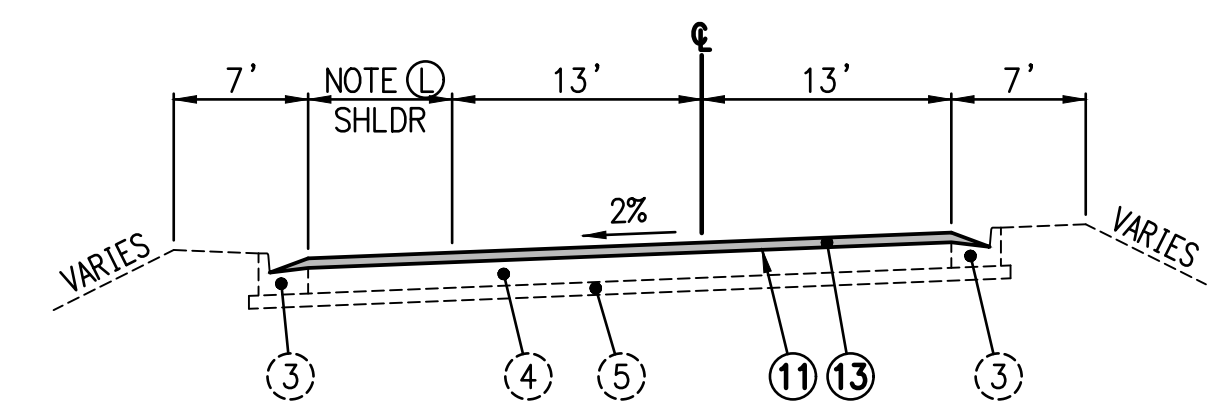
- ① EX AGGREGATE WEDGE
- ② EX HMA SHOULDER, 8"
- ③ EX COMB CONC C&G, TYPE B-6.24
- ④ EX PCC PAVEMENT, 8"
- ⑤ EX STABILIZED SUB-BASE, 4"
- ⑥ EX HMA SURFACE, 1 3/4" w/ WATERPROOFING MEMBRANE SYSTEM
- ⑦ EX AGGREGATE SHOULDER, 8"
- ⑧ EX OIL & CHIP SEAL COAT
- ⑨ EX PRECAST PRESTRESSED DECK BEAMS (21" DEPTH)
- ⑩ PR HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- ⑪ PR BITUMINOUS MATERIALS (TACK COAT)
- ⑫ PR HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1 1/2"
- ⑬ PR HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 3"
- ⑭ PR AGGREGATE WEDGE SHOULDER, TYPE B
- ⑮ PR CLASS A-2 BITUMINOUS SURFACE TREATMENT



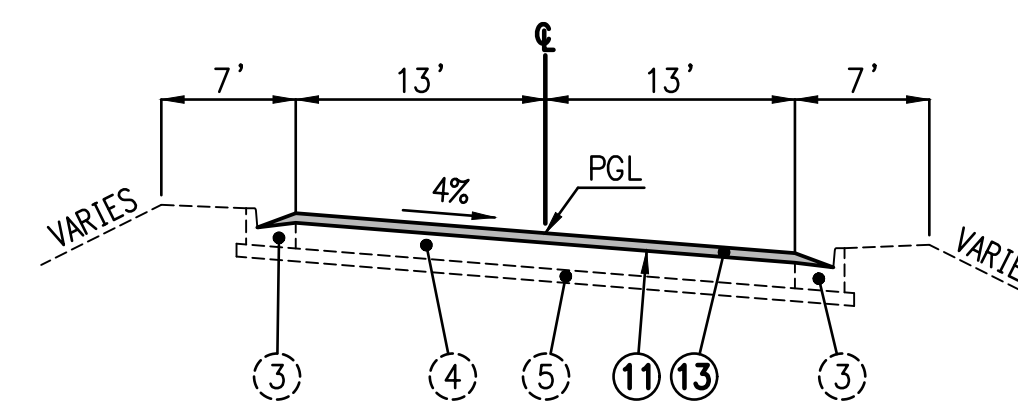
**STA 325+21 TO STA 327+43
STA 327+83 TO STA 328+26**



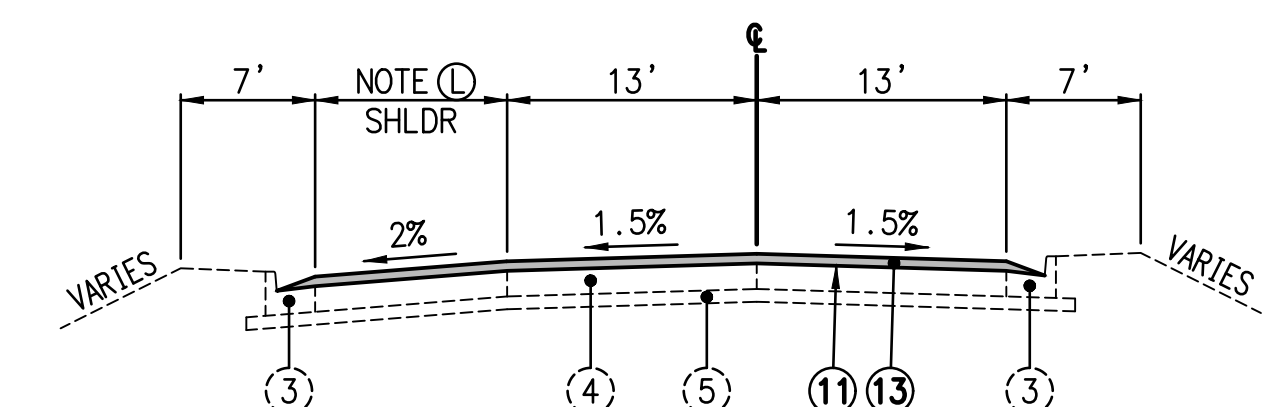
STA 340+44 TO STA 342+00



STA 349+21 TO STA 350+00



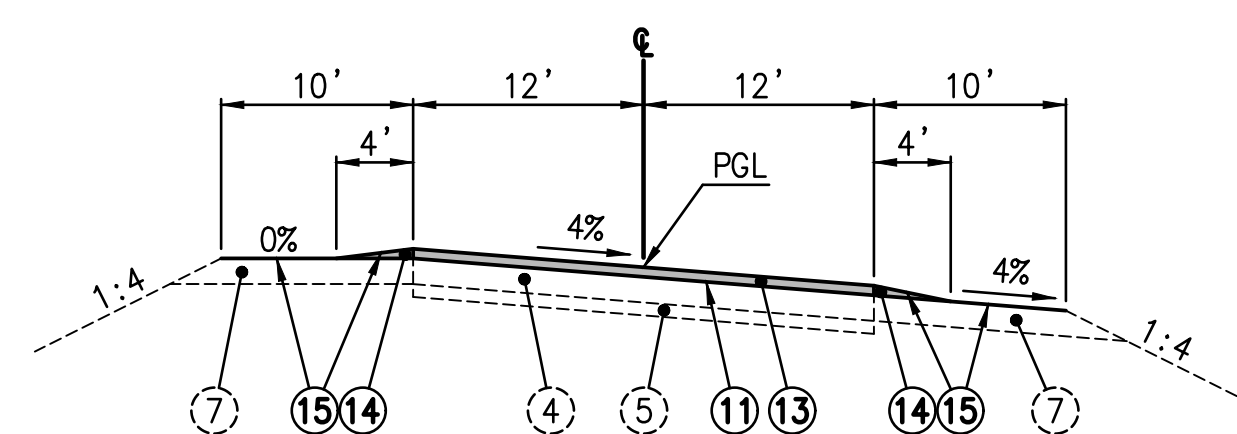
STA 342+00 TO STA 344+51



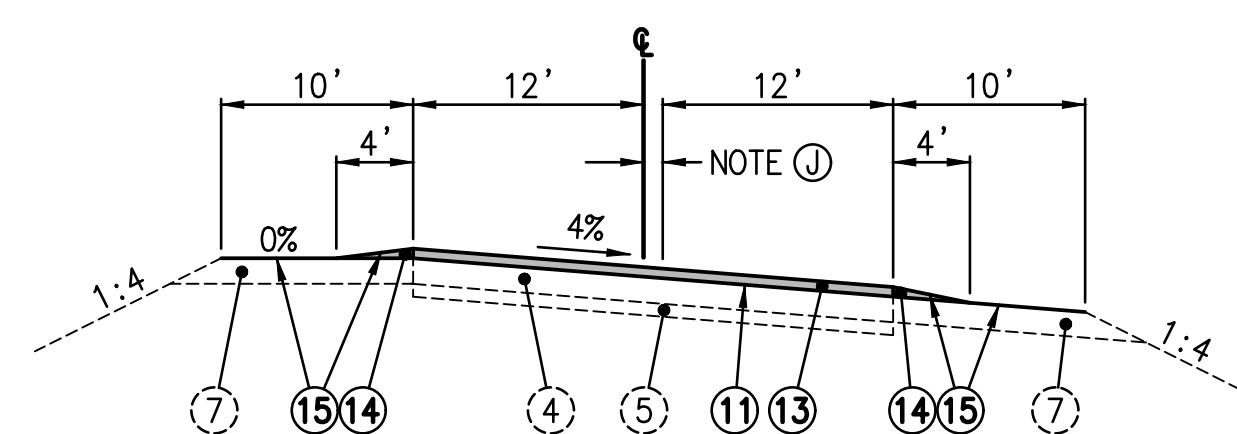
STA 350+00 TO STA 353+12

NOTES

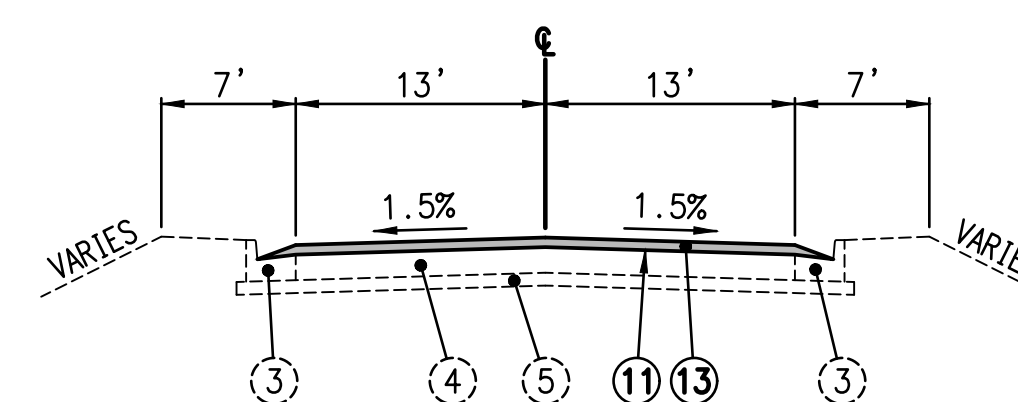
- (A) 10' FROM STA 291+60 TO STA 293+38
VARIES 10' TO 3' FROM STA 293+38 TO STA 293+82
- (B) VARIES 1' TO 12' FROM STA 293+38 TO STA 294+73
- (C) VARIES 1' TO 12' FROM STA 291+65 TO STA 293+47
12' FROM STA 293+47 TO STA 294+73
- (D) VARIES 10' TO 7' FROM STA 291+60 TO STA 292+70
- (E) VARIES 12' TO 1' FROM STA 295+33 TO STA 296+40
- (F) VARIES 4.5' TO 10' FROM STA 296+11 TO STA 296+62
- (G) VARIES 2' TO 9' FROM STA 297+45 TO STA 298+47
- (H) VARIES 12' TO 1' FROM STA 296+62 TO STA 298+47
- (I) 12' FROM STA 298+47 TO STA 299+12
VARIES 12' TO 0' FROM STA 299+12 TO STA 302+18
- (J) VARIES 0' TO 1' FROM STA 339+90 TO STA 340+50
1' FROM STA 340+50 TO STA 342+00
- (K) VARIES 0' TO 1' FROM STA 341+40 TO STA 342+00
- (L) VARIES 0' TO 7.5' FROM STA 350+00 TO STA 353+00
7.5' FROM STA 353+00 TO END
- (M) TRANSITION FROM 1 1/2" MILL & FILL TO 3" OVERLAY
FROM STA 296+62 TO STA 297+22
(1 1/2" MILL FROM STA 296+62 TO 296+92)
- (N) TRANSITION FROM 3" TO 1 1/2" OVERLAY - STA 327+13 TO 327+43
TRANSITION FROM 1 1/2" TO 3" OVERLAY - STA 327+83 TO 328+13



STA 337+47 TO STA 339+90



STA 339+90 TO STA 340+44



STA 344+51 TO STA 349+21

FAU ROUTE	FAS ROUTE	SECTION NO.	COUNTY	SHEET OF SHEETS
9167		16-00268-05-RS	ST. CLAIR	7 OF 19
TABULATION OF QUANTITIES				
PROJECT NO. PFIL(104)			CONTRACT #97724	

EARTHWORK AND SEEDING SCHEDULE

LOCATION (STATION)	SIDE	FURNISHED EXCAVATION (CU YD)	SEEDING, CLASS 2 (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	MULCH, METHOD 2 (ACRE)
325+82 TO 330+18	LT	31	0.08	7	7	7	0.08
324+91.50 TO 329+60	RT	132	0.12	11	11	11	0.12
TOTAL		163	0.20	18	18	18	0.20
USE		165	0.25	23	23	23	0.25

EROSION CONTROL SCHEDULE

LOCATION (STATION)	SIDE	PERIMETER EROSION BARRIER (FOOT)	INLET AND PIPE PROTECTION (EACH)	CLEANING EXISTING INLETS (EACH)
324+01 TO 327+20.49	RT	215		
325+78.22 TO 327+45.3	LT	160		
326+35.0	RT		1	
327+83 TO 328+08.83	RT	30		
328+07.82 TO 330+18.36	LT	195		
334+00	RT		1	
328+38.79 TO 329+63	RT	115		
327+00	LT			1
338+10	RT		1	
341+45	RT			1
342+44	RT			1
349+87	RT			1
TOTAL		715	3	4

SCHEDULE OF ENTRANCES

LOCATION (STATION)	SIDE	WIDTH	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (SQ YD)	PC CONCRETE SURFACE REMOVAL - BUTT JOINT (SQ YD)	AGGREGATE SURFACE COURSE, TYPE B (TON)	BITUMINOUS MATERIALS (TACK COAT) (POUND)	INCIDENTAL HOT-MIX ASPHALT SURFACING (TON)
298+26	RT	28	15.6			14	3.9
299+17	RT	32	17.8			16	4.5
300+40	LT	20			1.9		
309+20	LT	25			2.4		
312+70	RT	20			1.9		
313+22	LT	20			1.9		
315+55	RT	34			3.3		
323+40	LT	25	13.9			13	3.5
325+15	LT	24			2.3		
325+72	LT	36			3.5		
326+45	RT	34	34.0			47	22.0
328+34	RT	45	35.0			56	26.7
331+65	RT	40			3.9		
332+20	RT	40			3.9		
335+20	LT	85		26.7		43	11.9
337+23	RT	48	26.7			24	6.7
TOTAL			143	26.7	25.0	213	79.2

AGGREGATE SHOULDER SCHEDULE

LOCATION (STATION TO STATION)	SIDE	WIDTH (FOOT)	AGGREGATE SHOULDERS, TYPE B (TON)	AGGREGATE WEDGE SHOULDERS, TYPE B (TON)
296+62	298+12	RT	4	7.5
297+44.5	299+12	LT	3	6.3
298+40	299+01	RT	4	3.0
299+12	300+30	LT	4	5.8
299+33	312+60	RT	4	66.1
300+50	307+61.53	LT	4	35.4
307+61.53	309+07.5	LT	3	5.4
307+61.53	309+07.5	LT	10	28.5
309+32.5	313+12	LT	3	14.2
309+32.5	313+12	LT	10	74.2
312+80	315+38	RT	4	12.8
313+32	317+74.3	LT	3	16.5
313+32	317+74.3	LT	10	84.9
315+72	323+43.79	RT	4	38.4
317+74.3	323+27.5	LT	4	27.6
323+43.79	324+91.5	RT	3	5.5
323+43.79	326+28	RT	10	55.2
323+52.5	325+03	LT	4	7.5
325+27	325+54	LT	4	1.3
325+90	327+47	LT	4	7.8
326+62	327+40	RT	10	15.2
327+76	328+12	RT	10	7.0
327+88	334+77.43	LT	4	34.3
328+56	330+14.95	RT	10	30.9
329+60	330+14.95	RT	3	2.1
330+14.95	331+45	RT	4	6.5
331+85	332+00	RT	4	0.8
332+40	337+08	RT	4	23.3
335+62.48	336+20.84	LT	4	2.9
336+20.84	341+82.5	LT	3	20.9
336+20.84	341+82.5	LT	10	109.3
337+52	340+43.5	RT	4	14.5
TOTAL			405.20	366.4

PAVEMENT SCHEDULE

LOCATION (STATION TO STATION)	PC CONCRETE SURFACE REMOVAL - BUTT JOINT (SQ YD)	HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2" (SQ YD)	BITUMINOUS MATERIALS (TACK COAT) (POUND)	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N70 (TON)
291+60	296+92			2455
291+60	297+22		1172	231.7
297+22	327+13		3848	1436.9
327+13	328+13		160	36.6
328+13	342+00		1677	622.9
342+00	353+12		1569	533.1
352+82	353+12	111		
TOTAL	111	2455	8426	2861

TEMPORARY RAMPS SCHEDULE

LOCATION (STATION)	MAIN LINE, SIDE ROAD, AND ENTRANCE	LENGTH (FOOT)	WIDTH (FOOT)	TEMPORARY RAMP (SQ YD)
291+60	BEGINNING OF JOB	5	37.9	21.1
294+09.5	RIGHT ONTO F.S.P.	5	12	6.7
295+02.5	FRANK SCOTT PARKWAY	5	70	38.9
295+21.2	FRANK SCOTT PARKWAY	5	70	38.9
296+05	RIGHT ONTO F.S.P.	5	12	6.7
296+92	END OF MILLING	5	45.5	25.3
335+20	CARBON ST	5	30	16.7
353+12	END OF JOB	5	26	14.4
TOTAL				168.7
USE				169

SHOULDER TREATMENT SCHEDULE

LOCATION (STATION TO STATION)	SIDE	BITUMINOUS MATERIALS (PRIME COAT) (TON)	BITUMINOUS MATERIALS (COVER AND SEAL COATS) (TON)	SEAL COAT AGGREGATE (TON)	COVER COAT AGGREGATE (TON)
296+62	298+12	RT	0.3	0.5	1.7
298+40	299+01	RT	0.1	0.2	0.6
299+12	323+27.5	LT	5.0	7.2	26.8
299+33	326+28	RT	5.6	8.1	29.8
323+52.5	327+49	LT	0.8	1.2	4.3
326+62	327+40	RT	0.2	0.2	0.9
327+76.5	328+12	RT	0.1	0.1	0.4
328+56	337+08	RT	1.8	2.6	9.5
327+87	334+77.5	LT	1.4	2.1	7.5
335+62.5	341+94	LT	1.3	1.9	7.1
337+52	340+43.5	RT	0.6	0.9	3.2
TOTAL			17.2	25.0	91.8
USE			17.2	25	92

FAU ROUTE	FAS ROUTE	SECTION NO.	COUNTY	SHEET OF SHEETS
9167		16-00268-05-RS	ST. CLAIR	8 OF 19
TABULATION OF QUANTITIES				
PROJECT NO. PFIL(104)			CONTRACT #97724	

SCHEDULE OF PATCHES, TYPE II

LOCATION (SIDE)	SIDE	LENGTH (FOOT)	TRANSVERSE WIDTH (FOOT)	CLASS B PATCHES TYPE II, 8 INCH (SQ YD)	SAW CUTS (FOOT)	DOWEL BARS 1 1/4" (EACH)	
291+96.3	292+02.3	RT	6	12	8	54	20
301+92.0	301+98.0	RT	6	12.5	8.3	49.5	20
302+40.0	302+46.0	LT	6	12	8	48	20
302+40.0	302+46.0	RT	6	12	8	48	20
302+98.5	303+04.5	LT	6	12	8	48	20
302+98.5	303+04.5	RT	6	12	8	48	20
303+49.5	303+55.5	LT	6	12	8	48	20
303+49.5	303+55.5	RT	6	12	8	48	20
303+99.5	304+05.5	LT	6	12	8	48	20
303+99.5	304+05.5	RT	6	12	8	48	20
304+46.0	304+52.0	LT	6	12	8	48	20
304+46.0	304+52.0	RT	6	12	8	48	20
305+48.5	305+54.5	LT	6	12	8	48	20
305+48.5	305+54.5	RT	6	12	8	48	20
308+37.0	308+43.0	LT	6	12	8	48	20
308+37.0	308+43.0	RT	6	12	8	48	20
308+83.7	308+89.7	LT	6	12	8	48	20
309+53.0	309+59.0	LT	6	12	8	48	20
311+35.8	311+41.8	RT	6	12	8	48	20
312+03.0	312+09.0	LT	6	12	8	48	20
313+17.7	313+23.7	RT	6	12	8	48	20
313+52.8	313+58.8	LT	6	12	8	48	20
313+52.8	313+58.8	RT	6	12	8	48	20
314+02.0	314+08.0	LT	6	12	8	48	20
314+02.0	314+08.0	RT	6	12	8	48	20
314+32.2	314+38.2	LT	6	12	8	48	20
314+32.2	314+38.2	RT	6	12	8	48	20
314+52.3	314+58.3	LT	6	12	8	48	20
314+52.3	314+58.3	RT	6	12	8	48	20
315+02.5	315+08.5	RT	6	12	8	48	20
315+45.2	315+51.2	RT	6	12	8	48	20
315+71.8	315+77.8	LT	6	12	8	48	20
316+54.2	316+60.2	LT	6	12	8	48	20
316+54.2	316+60.2	RT	6	12	8	48	20
317+04.3	317+10.3	LT	6	12	8	48	20
317+35.3	317+41.3	LT	6	12	8	48	20
317+35.3	317+41.3	RT	6	12	8	48	20
317+54.3	317+60.3	RT	6	12	8	48	20
317+72.3	317+78.3	LT	6	12	8	48	20
317+72.3	317+78.3	RT	6	12	8	48	20
318+04.3	318+10.3	LT	6	12	8	48	20
318+04.3	318+10.3	RT	6	12	8	48	20
318+34.3	318+40.3	LT	6	12	8	48	20
318+34.3	318+40.3	RT	6	12	8	48	20
318+54.3	318+60.3	RT	6	12	8	48	20
319+04.3	319+10.3	LT	6	12	8	48	20
319+55.3	319+61.3	LT	6	12	8	48	20
319+55.3	319+61.3	RT	6	12	8	48	20
319+87.3	319+93.3	LT	6	12	8	48	20

SCHEDULE OF PATCHES, TYPE II

LOCATION (SIDE)	SIDE	LENGTH (FOOT)	TRANSVERSE WIDTH (FOOT)	CLASS B PATCHES TYPE II, 8 INCH (SQ YD)	SAW CUTS (FOOT)	DOWEL BARS 1 1/4" (EACH)	
320+05.3	320+11.3	LT	6	12	8	48	20
320+05.3	320+11.3	RT	6	12	8	48	20
321+53.3	321+59.3	RT	6	12	8	48	20
322+90.3	322+96.3	LT	6	12	8	48	20
322+90.3	322+96.3	RT	6	12	8	48	20
323+03.3	323+09.3	RT	6	12	8	48	20
323+37.0	323+43.0	LT	6	12	8	48	20
323+37.0	323+43.0	RT	6	12	8	48	20
324+01.3	324+07.3	LT	6	12	8	48	20
324+01.3	324+07.3	RT	6	12	8	48	20
325+24.0	325+30.0	LT	6	12	8	48	20
325+24.0	325+30.0	RT	6	12	8	48	20
325+49.7	325+55.7	LT	6	12	8	48	20
325+61.5	325+67.5	LT	6	12	8	48	20
325+61.5	325+67.5	RT	6	12	8	48	20
329+18.0	329+24.0	LT	6	12	8	48	20
329+18.0	329+24.0	RT	6	12	8	48	20
329+46.0	329+52.0	LT	6	12	8	48	20
329+46.0	329+52.0	RT	6	12	8	48	20
329+74.0	329+80.0	LT	6	12	8	48	20
330+19.0	330+25.0	LT	6	12	8	48	20
330+45.0	330+51.0	RT	6	12	8	48	20
330+95.0	331+01.0	LT	6	12	8	48	20
330+95.0	331+01.0	RT	6	12	8	48	20
331+45.0	331+51.0	LT	6	12	8	48	20
331+45.0	331+51.0	RT	6	12	8	48	20
331+96.0	332+02.0	LT	6	12	8	48	20
331+96.0	332+02.0	RT	6	12	8	48	20
332+22.5	332+28.5	LT	6	12	8	48	20
332+22.5	332+28.5	RT	6	12	8	48	20
332+45.0	332+51.0	RT	6	12	8	48	20
332+95.0	333+01.0	LT	6	12	8	48	20
332+95.0	333+01.0	RT	6	12	8	48	20
333+46.0	333+52.0	LT	6	12	8	48	20
333+46.0	333+52.0	RT	6	12	8	48	20
334+00.0	334+06.0	RT	6	12	8	48	20
334+45.0	334+51.0	LT	6	12	8	48	20
334+45.0	334+51.0	RT	6	12	8	48	20

SCHEDULE OF PATCHES, TYPE II

LOCATION (SIDE)	SIDE	LENGTH (FOOT)	TRANSVERSE WIDTH (FOOT)	CLASS B PATCHES TYPE II, 8 INCH (SQ YD)	SAW CUTS (FOOT)	DOWEL BARS 1 1/4" (EACH)	
335+17.0	335+23.0	LT	6	12	8	48	20
335+17.0	335+23.0	RT	6	12	8	48	20
336+45.0	336+51.0	LT	6	12	8	48	20
337+93.0	337+99.0	RT	6	12	8	48	20
338+44.0	338+50.0	LT	6	12	8	48	20
338+44.0	338+50.0	RT	6	12	8	48	20
338+94.0	339+00.0	RT	6	12	8	48	20
339+61.3	339+67.3	LT	6	12	8	48	20
339+61.3	339+67.3	RT	6	12	8	48	20
339+92.0	339+98.0	RT	6	12.1	8.1	48.3	20
340+39.8	340+45.8	LT	6	12	8	48	20
340+89.8	340+95.8	LT	6	12	8	48	20
341+38.7	341+44.7	LT	6	12	8	48	20
341+38.7	341+44.7	RT	6	13	8.7	57	24
341+87.7	341+93.7	LT	6	13	8.7	51	24
342+37.6	342+43.6	RT	6	13	8.7	57	24
342+86.6	342+92.6	LT	6	13	8.7	57	24
342+86.6	342+92.6	RT	6	13	8.7	57	24
343+35.5	343+41.5	LT	6	13	8.7	57	24
343+84.5	343+90.5	LT	6	13	8.7	57	24
344+83.5	344+89.5	LT	6	13	8.7	57	24
344+83.5	344+89.5	RT	6	13	8.7	57	24
347+47.7	347+53.7	LT	6	13	8.7	57	24
348+48.7	348+54.7	LT	6	13	8.7	57	24
350+48.3	350+54.3	LT	6	13.8	9.2	59.4	24
350+48.3	350+54.3	RT	6	13	8.7	57	24
351+49.2	351+55.2	LT	6	16.8	11.2	68.4	28
351+97.5	352+03.5	RT	6	13	8.7	57	24
352+11.4	352+17.4	LT	6	18.4	12.3	73.2	34
352+11.4	352+17.4	RT	6	13	8.7	57	24
352+47.0	352+53.0	RT	6	13	8.7	57	24
352+76.7	352+82.7	LT	6	20	13.3	78	38
TOTAL				976.9	5935.8	2484	
USE				977	5936	2484	

SCHEDULE OF PATCHES, TYPE III

LOCATION (SIDE)	SIDE	LENGTH (FOOT)	TRANSVERSE WIDTH (FOOT)	CLASS B PATCHES TYPE III, 8 INCH (SQ YD)	SAW CUTS (FOOT)	DOWEL BARS 1 1/4" (EACH)	WELDED WIRE REINFORCEMENT (SQ YD)
296+52.1	296+58.1	RT	6	24	16	84	16
305+12.8	305+31.3	LT	18.5	12	24.7	73	24.7
305+12.8	305+31.3	RT	18.5	12	24.7	73	24.7
330+48	330+63.5	LT	15.5	12	20.7	67	20.7
TOTAL				86.1	297	100	86.1
USE				86	297	100	86

GUARDRAIL SCHEDULE

LOCATION (STATION)	SIDE	GUARDRAIL REMOVAL (INCLUDING END TREATMENT) (FEET)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS (FOOT)	TRAFFIC BARRIER TERMINAL, TYPE 5A (EACH)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (EACH)	GUARDRAIL REFLECTORS, TYPE A (EACH)	TERMINAL MARKER DIRECT APPLIED (EACH)
325+28.94 TO 326+26.06	RT				2	1	2
325+92.50 TO 327+48.75	LT	151					
326+19.31 TO 327+48.75	LT		62.5	1	1	2	1
326+61.75 TO 327+37.50	RT	77					
326+63.85 TO 327+37.42	RT		12.5	1	1	1	1
327+76.30 TO 328+15.10	RT	39					
327+76.31 TO 328+07.83	RT		37.50	1		2	
327+89.90 TO 330+08.40	LT	203					
327+89.94 TO 329+80.49	LT		112.5	1	1	3	1
328+37.11 TO 329+22.58	RT		50		1	3	1
TOTAL		470	275	4	6	12	6

REFLECTIVE MARKER SCHEDULE

LOCATION (STATION TO STATION)	SIDE	DISTANCE O.C. BETWEEN MARKERS (FOOT)	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL (EACH)	RAISED REFLECTIVE PAVEMENT MARKER ONE WAY CRYSTAL (EACH)	RAISED REFLECTIVE PAVEMENT MARKER ONE WAY AMBER (EACH)	RAISED REFLECTIVE PAVEMENT MARKER TWO WAY AMBER (EACH)
291+60 TO 294+73			15			
291+70.88 TO 293+30.86		40			10	
293+50.3 TO 294+62.7	RT	40		4		
293+70.94 TO 294+47.5		40				3
294+73 TO 302+06.7			32			
295+57.29 TO 302+86.7		40			22	8
295+62.52 TO 297+23	LT	40		5		
302+06.7 TO 327+63			15			
302+86.7 TO 308+46.7	CL	80				7
308+46.7 TO 316+86.7	CL	40				21
316+86.7 TO 324+14.7	CL	80				9
324+14.7 TO 328+50.19	CL	40				11
327+63 TO 353+12			7			
328+50.19 TO 336+62.2	CL	80				10
336+62.2 TO 346+09.21	CL	40				21
346+09.21 TO 350+09.21	CL	80				5
350+09.21 TO 353+12	CL	40				7
SUB-TOTAL			69	9	32	102
TOTAL			69		143	

PAINT PAVEMENT MARKING SCHEDULE

LOCATION (STATION TO STATION)	SIDE	LINE 4" WHITE SOLID (FOOT)	LINE 4" DOUBLE YELLOW SOLID (FOOT)	LINE 8" WHITE SOLID (FOOT)	LINE 12" YELLOW SOLID (FOOT)	LINE 24" WHITE SOLID (FOOT)	LETTERS AND SYMBOLS WHITE (SQ FT)
291+60 TO 293+40.4	LT	179					
291+60 TO 293+47.4	RT	190					
291+60 TO 293+50.3			734		56		
293+50.3 TO 294+50.15	LT		198				
293+50.3 TO 294+26	RT	76					
293+50.3 TO 294+62.7	RT	112					
293+66 TO 293+66	RT						15.6
293+66 TO 293+66	RT						15.6
294+18.6 TO 294+73	LT			54			
294+21 TO 294+21	RT						15.6
294+26 TO 294+74	RT			49			
294+49.15 TO 294+49.15	RT					12	
294+61.71 TO 294+61.71	RT					12	
295+32.1 TO 295+75.3	LT			43			
295+32.3 TO 295+81	RT			49			
295+42.84 TO 297+23	LT	180					
295+43.67 TO 295+43.84	LT					12	
295+58.29 TO 297+23	RT			330			
295+59.29 TO 295+59.29	LT					12	
295+75.3 TO 297+23	LT	147					
295+89.5 TO 295+89.5	LT						15.6
296+39.93 TO 302+06.7	RT	557					
296+51.7 TO 296+51.7	LT						15.6
296+61.78 TO 302+06.7	LT	624					
297+01.3 TO 297+01.3	LT						15.6
297+23 TO 302+06.7			1828				
297+23 TO 302+06.7					128		
302+06.7 TO 334+82.58	LT	3253					
302+06.7 TO 353+12	RT	4970					
302+06.7 TO 353+12			9957				
335+62.58 TO 353+12	LT	1654					
SUB-TOTAL		11942	13047	195	184	48	93.6
TOTAL			24989	195	184	48	94

SHORT TERM MARKING SCHEDULE

LOCATION (STATION)	SHORT TERM PAVEMENT MARKING (FOOT)	SHORT TERM PAVEMENT MARKING REMOVAL (SQ FT)
291+60 TO 296+92	148	49.4
296+92 TO 302+18	92	30.7
302+18 TO 352+82	448	149.4
352+82 TO 353+12	4	1.1
TOTAL		X 2 APPL 1384
		X 2 APPL 461

RELOCATE MAILBOX

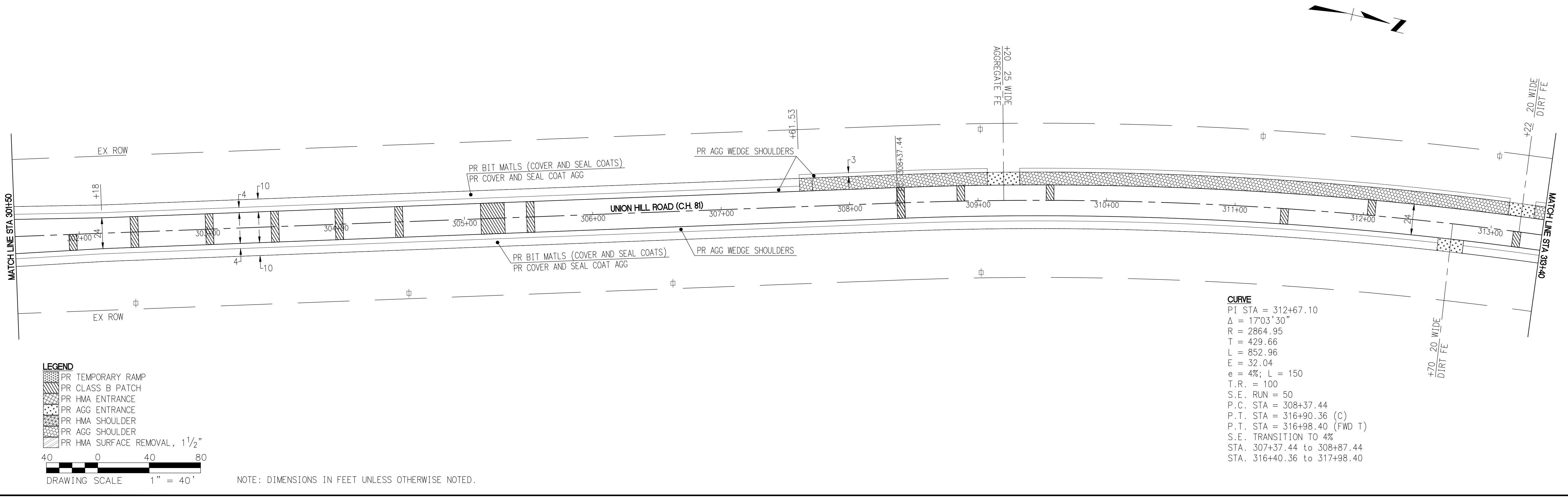
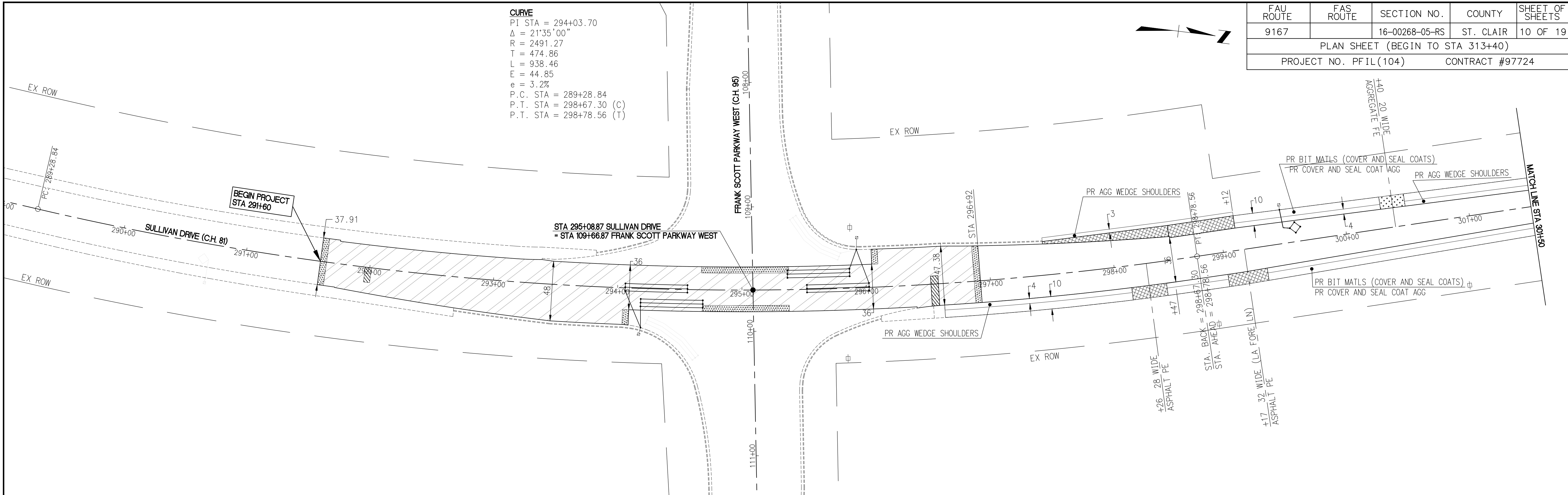
LOCATION (STATION)	SIDE	RELOCATE EXISTING MAILBOX (EACH)
326+62	RT	1
328+16	RT	5
TOTAL		6

TRAFFIC SIGNAL MODIFICATIONS

LOCATION (STATION)	SIDE	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 2C (FOOT)	DETECTOR LOOP, TYPE 1 (FOOT)	REMOVE ELECTRIC CABLE FROM CONDUIT (FOOT)
294+06.1 TO 294+56.1	RT		488	
294+18 TO 294+18	RT	46		20
294+18.8 TO 294+68.6	RT		458	
295+36.7 TO 295+87.0	LT		457	
295+52.3 TO 296+02.3	LT		482	
295+94 TO 295+94	LT	62		36
299+50 TO 299+50	LT	23		10
299+55.6 TO 299+55.6	LT		152	
TOTAL		131	2037	66

FAU ROUTE	FAS ROUTE	SECTION NO.	COUNTY	SHEET OF SHEETS
9167		16-00268-05-RS	ST. CLAIR	10 OF 19
PLAN SHEET (BEGIN TO STA 313+40)				
PROJECT NO. PFIL(104)		CONTRACT #97724		

CURVE
 PI STA = 294+03.70
 $\Delta = 21'35''00''$
 R = 2491.27
 T = 474.86
 L = 938.46
 E = 44.85
 e = 3.2%
 P.C. STA = 289+28.84
 P.T. STA = 298+67.30 (C)
 P.T. STA = 298+78.56 (T)



LEGEND

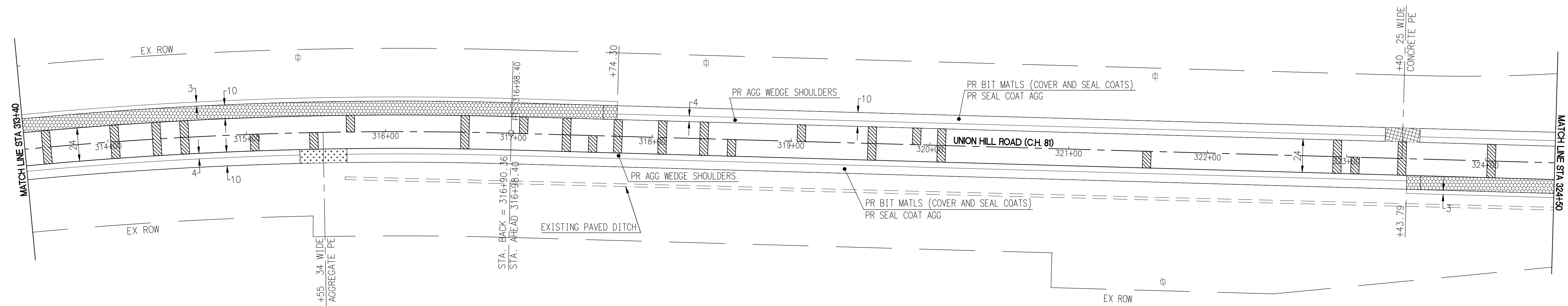
- PR TEMPORARY RAMP
- PR CLASS B PATCH
- PR HMA ENTRANCE
- PR AGG ENTRANCE
- PR HMA SHOULDER
- PR AGG SHOULDER
- PR HMA SURFACE REMOVAL, 1 1/2"

DRAWING SCALE 1" = 40'

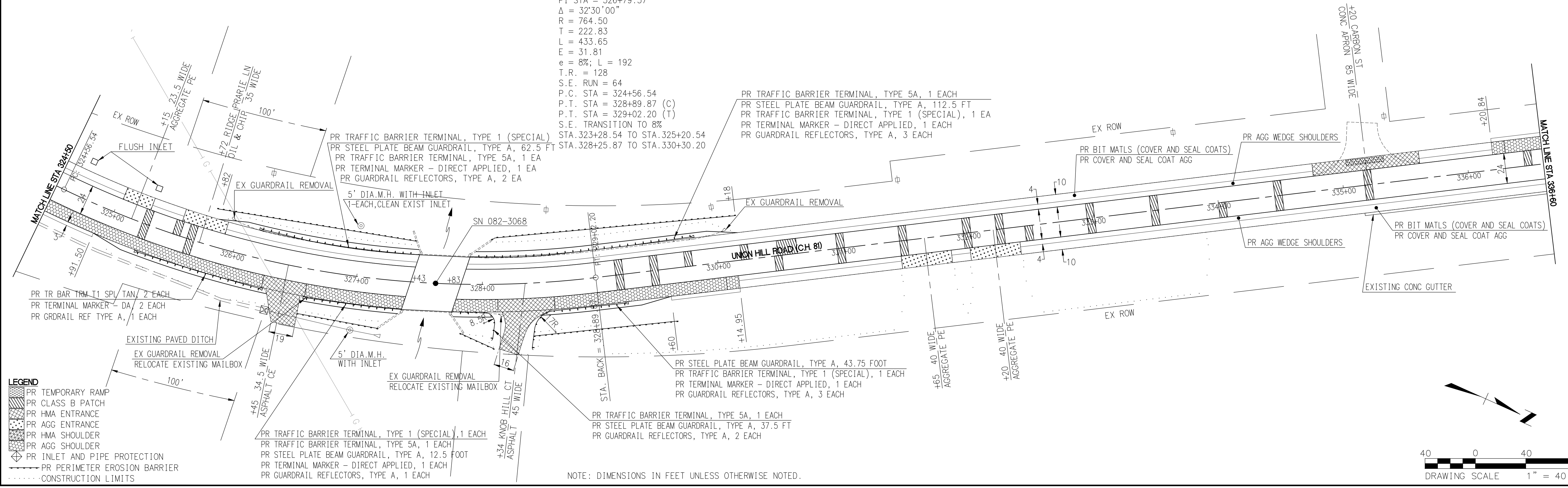
CURVE
 PI STA = 312+67.10
 $\Delta = 17'03''30''$
 R = 2864.95
 T = 429.66
 L = 852.96
 E = 32.04
 e = 4%; L = 150
 T.R. = 100
 S.E. RUN = 50
 P.C. STA = 308+37.44
 P.T. STA = 316+90.36 (C)
 P.T. STA = 316+98.40 (FWD T)
 S.E. TRANSITION TO 4%
 STA. 307+37.44 TO 308+87.44
 STA. 316+40.36 TO 317+98.40

NOTE: DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

FAU ROUTE	FAS ROUTE	SECTION NO.	COUNTY	SHEET OF SHEETS
9167		16-00268-05-RS	ST. CLAIR	11 OF 19
PLAN SHEET (STA 313+40 TO STA 336+60)				
PROJECT NO. PFIL(104)			CONTRACT #97724	

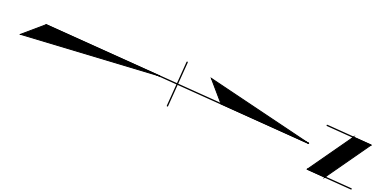
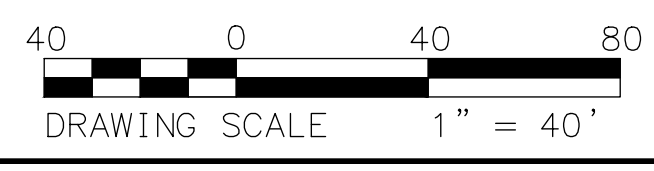


CURVE
 P.I. STA = 326+79.37
 $\Delta = 32'30''00''$
 R = 764.50
 T = 222.83
 L = 433.65
 E = 31.81
 e = 8%; L = 192
 T.R. = 128
 S.E. RUN = 64
 P.C. STA = 324+56.54
 P.T. STA = 328+89.87 (C)
 P.T. STA = 329+02.20 (T)
 S.E. TRANSITION TO 8%

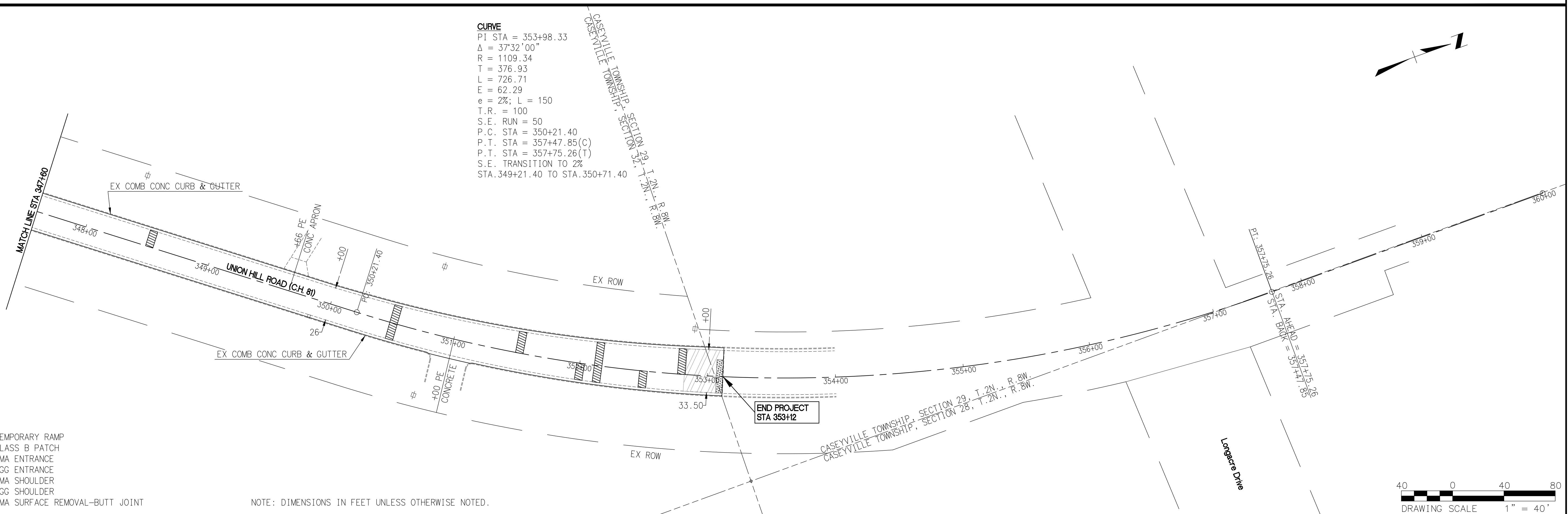
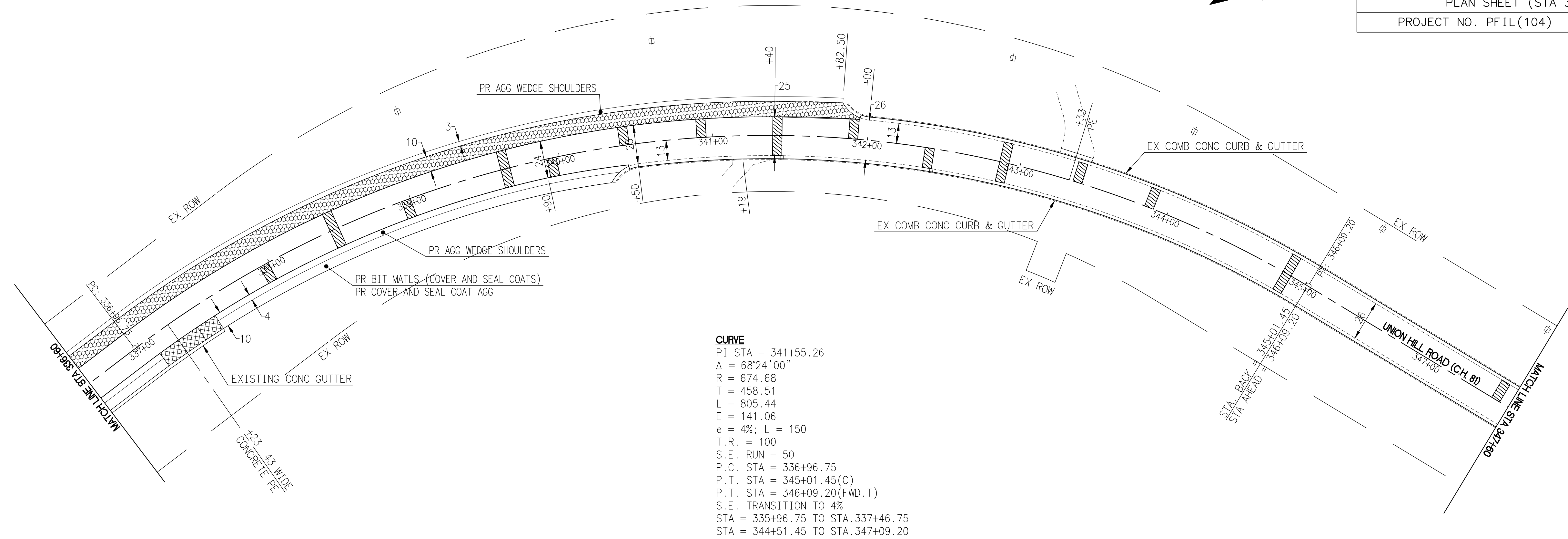


- LEGEND**
- PR TEMPORARY RAMP
 - PR CLASS B PATCH
 - PR HMA ENTRANCE
 - PR AGG ENTRANCE
 - PR HMA SHOULDER
 - PR AGG SHOULDER
 - PR INLET AND PIPE PROTECTION
 - PR PERIMETER EROSION BARRIER
 - CONSTRUCTION LIMITS

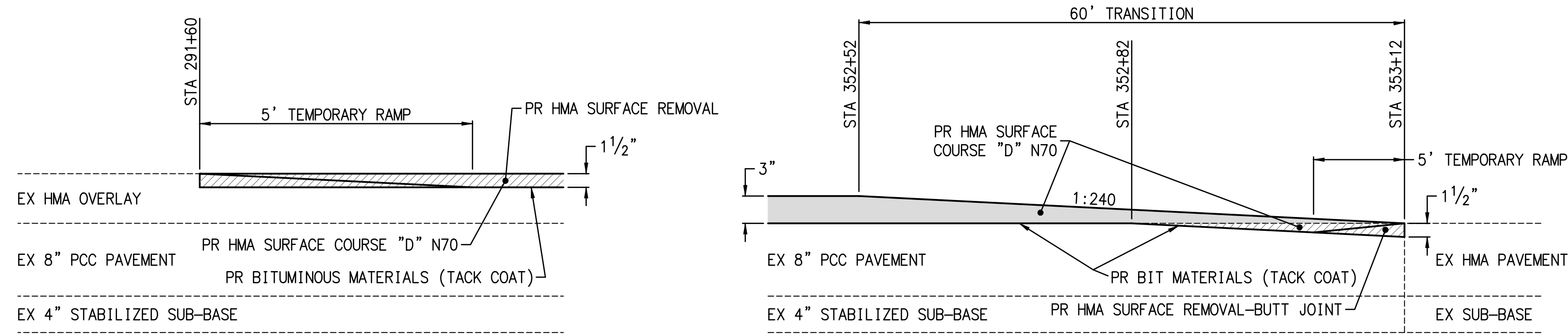
NOTE: DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.



FAU ROUTE	FAS ROUTE	SECTION NO.	COUNTY	SHEET OF SHEETS
9167		16-00268-05-RS	ST. CLAIR	12 OF 19
PLAN SHEET (STA 336+60 TO END)				
PROJECT NO. PFIL(104)			CONTRACT #97724	

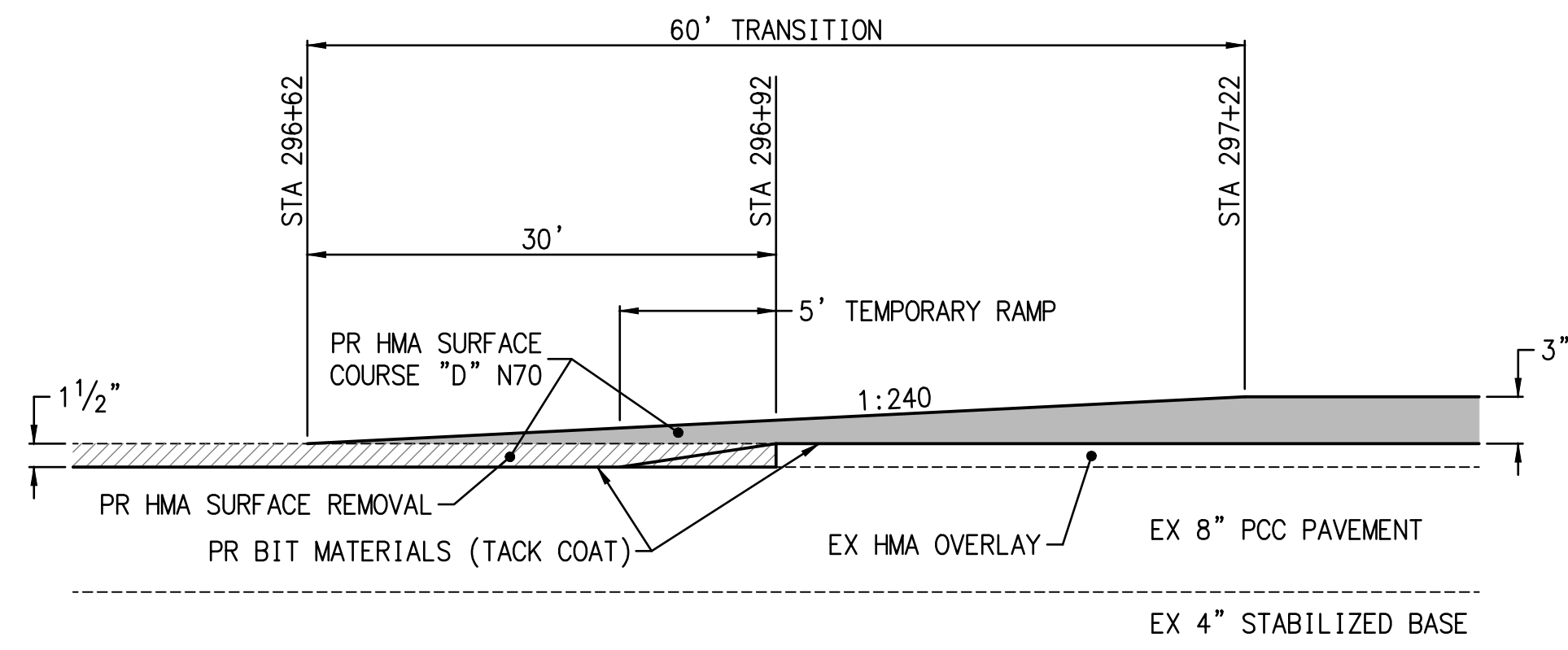


FAU ROUTE	FAS ROUTE	SECTION NO.	COUNTY	SHEET OF SHEETS
9167		16-00268-05-RS	ST. CLAIR	13 OF 19
DETAILS				
PROJECT NO. PFIL(104)			CONTRACT #97724	

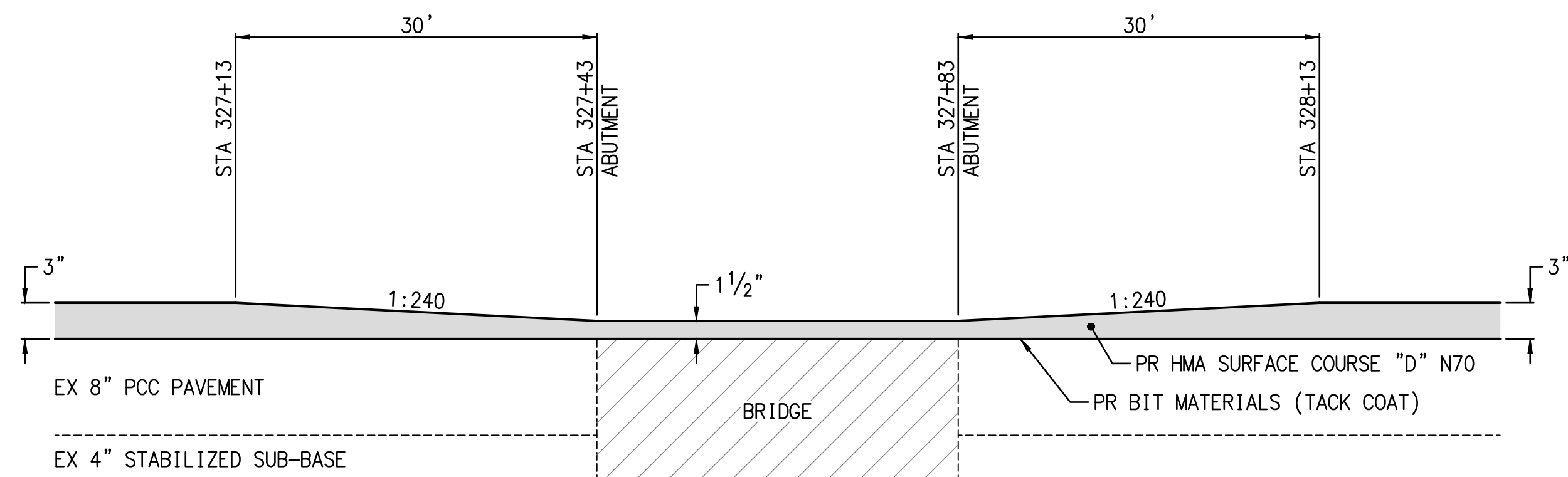


**DETAIL OF CONNECTION
STA 291+60
(NOT TO SCALE)**

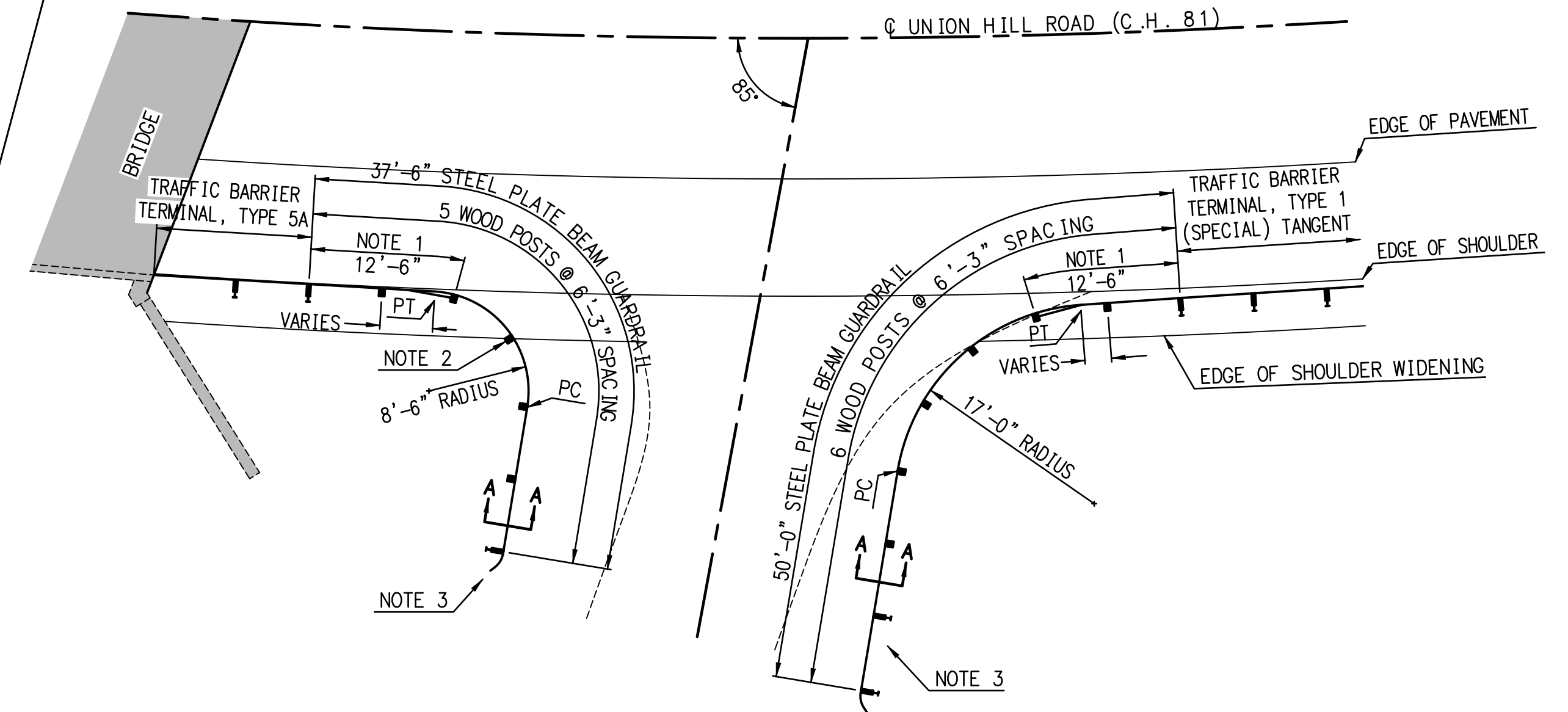
**DETAIL OF CONNECTION
STA 353+12
(NOT TO SCALE)**



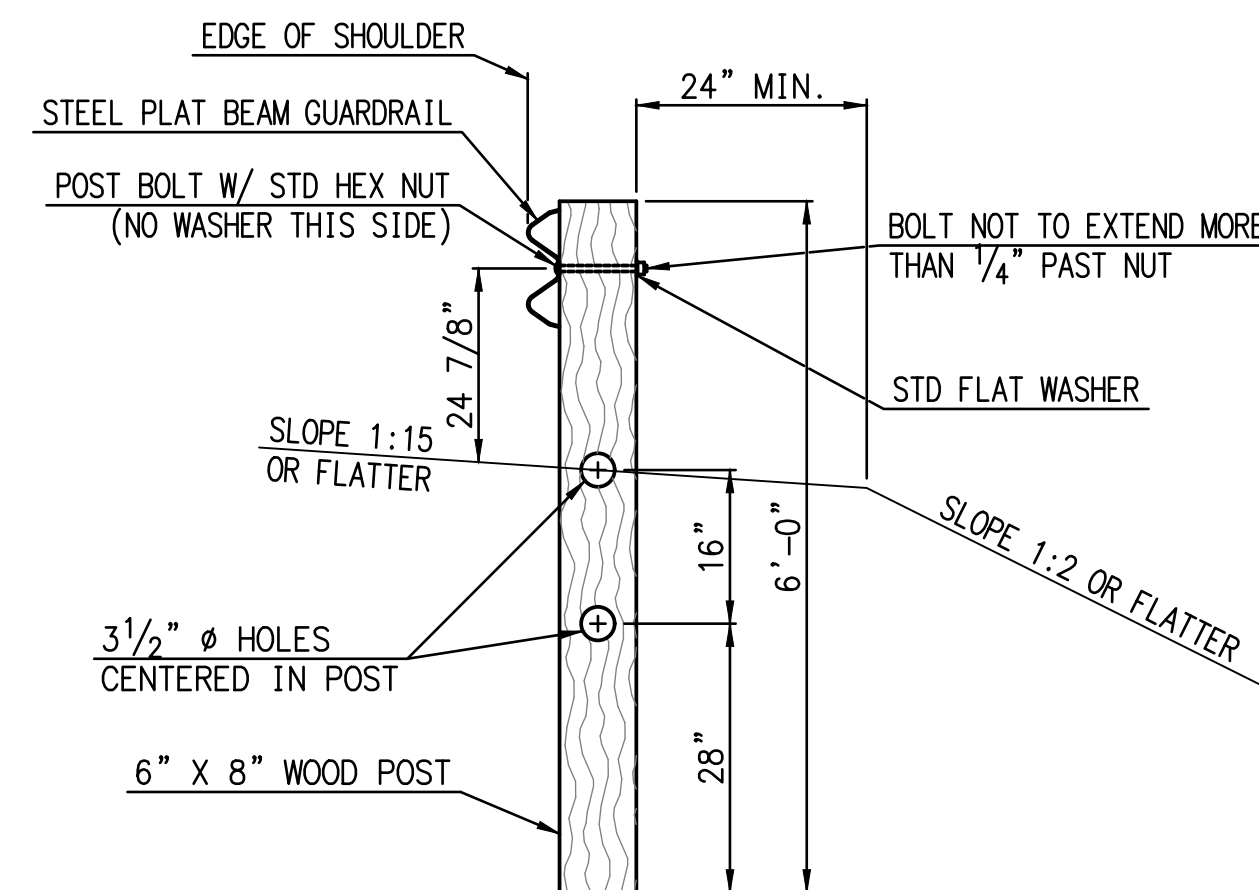
**DETAIL OF TRANSITION FROM MILL AND FILL TO OVERLAY
STA 296+62 TO STA 297+22
(NOT TO SCALE)**



**DETAIL OF OVERLAY TRANSITION DEPTH AT BRIDGE
STA 327+13 TO STA 328+13
(NOT TO SCALE)**



**PLAN VIEW
SCALE: 1" = 10'**



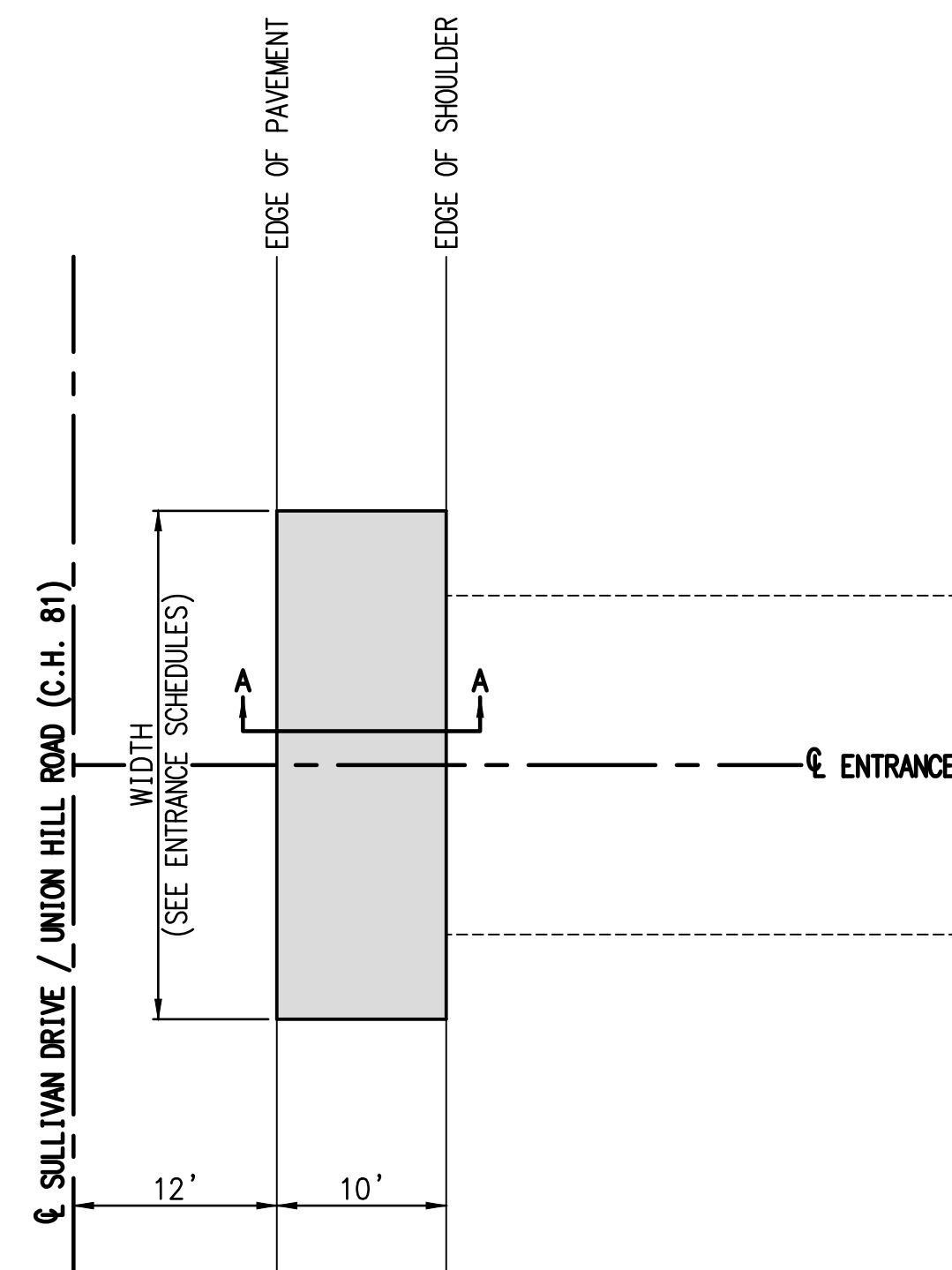
**SECTION A-A
NOT TO SCALE**

**DETAIL OF STEEL PLATE BEAM GUARDRAIL
STA 327+89.19 TO STA 328+07.83 RT
STA 328+37.11 TO STA 328+61.42 RT**

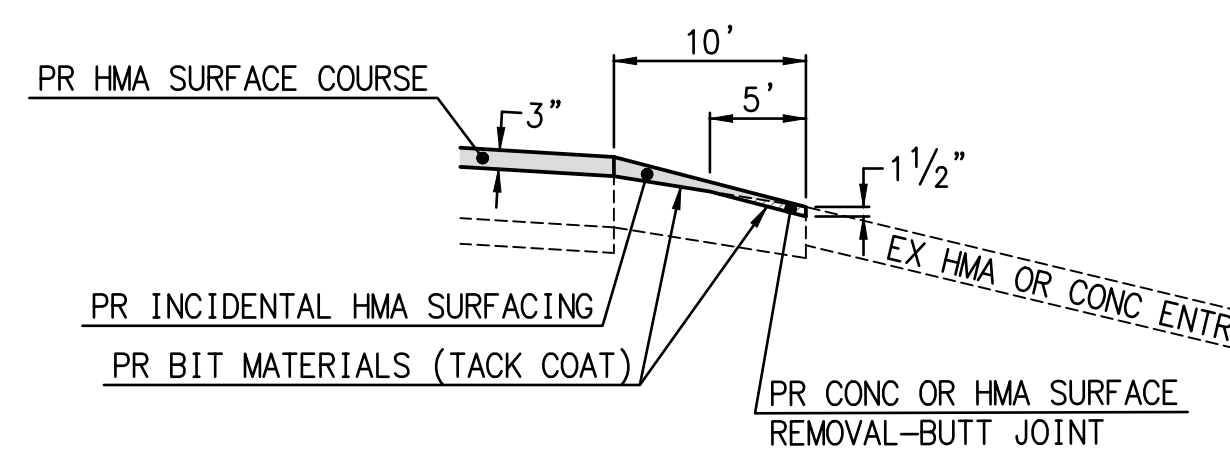
NOTES

1. CONSTRUCT ACCORDING TO STANDARD 631011 FOR TRAFFIC BARRIER TERMINAL, TYPE 2, EXCEPT DELETE END SECTION AND SPLICE INTO RADIUS GUARDRAIL.
2. FOR THE 8'-6" RADIUS, THE RAIL IS NOT BOLTED TO THE POST LOCATED AT THE MIDPOINT OF THE CURVE.
3. CONSTRUCT END SECTION ACCORDING TO STANDARD 630001.

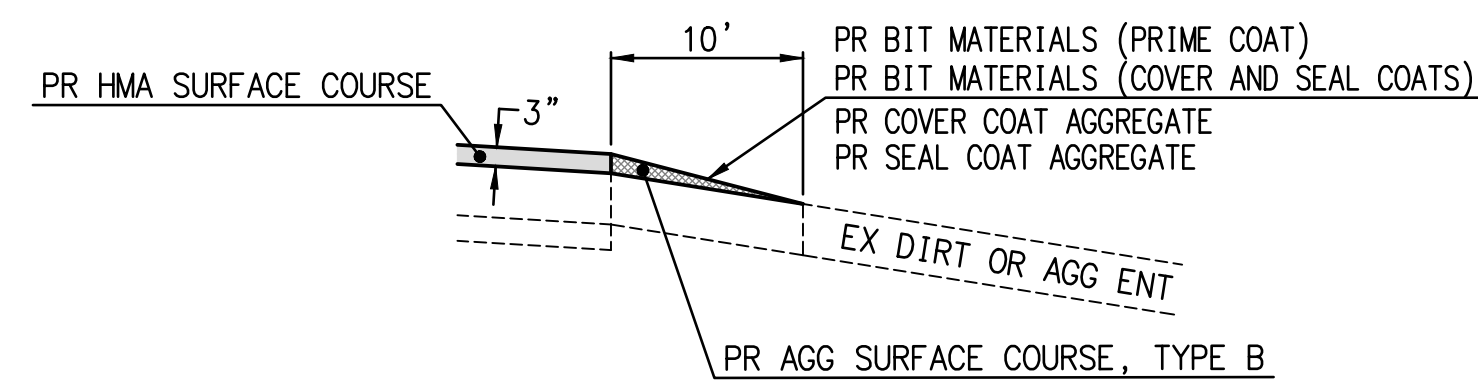
FAU ROUTE	FAS ROUTE	SECTION NO.	COUNTY	SHEET OF SHEETS
9167		16-00268-05-RS	ST. CLAIR	14 OF 19
DETAILS				
PROJECT NO. PFIL(104)			CONTRACT #97724	



PLAN VIEW
SCALE: 1" = 10'



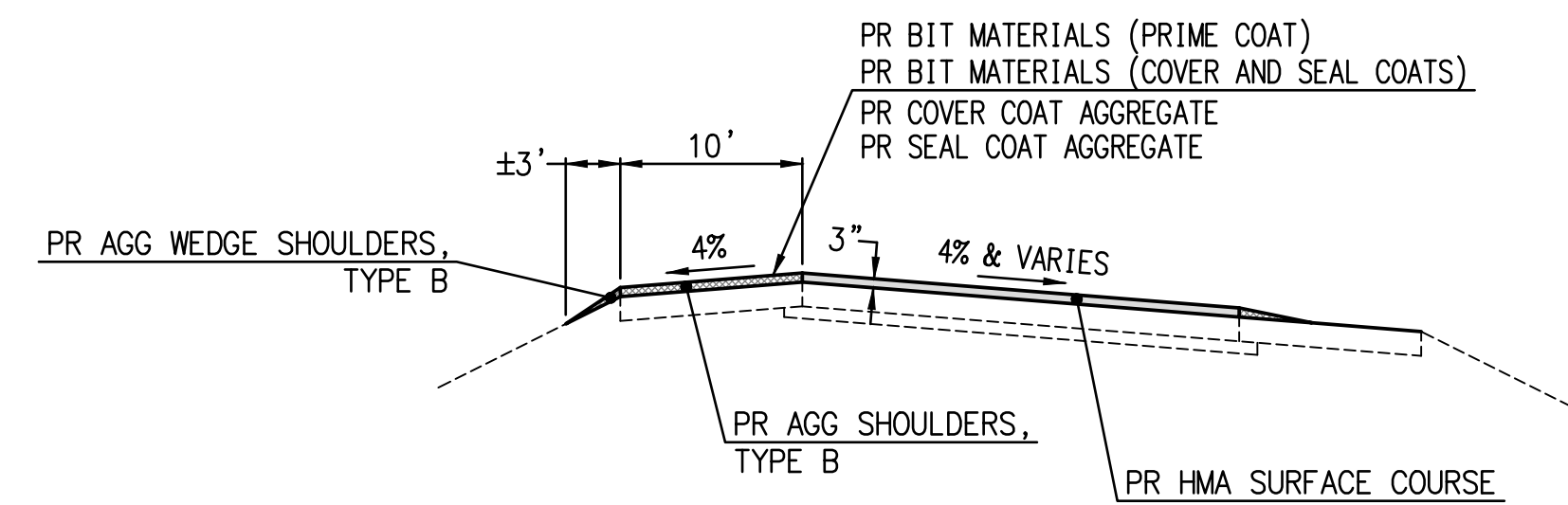
SECTION A-A
HOT MIX ASPHALT OR
CONCRETE ENTRANCE
(NOT TO SCALE)



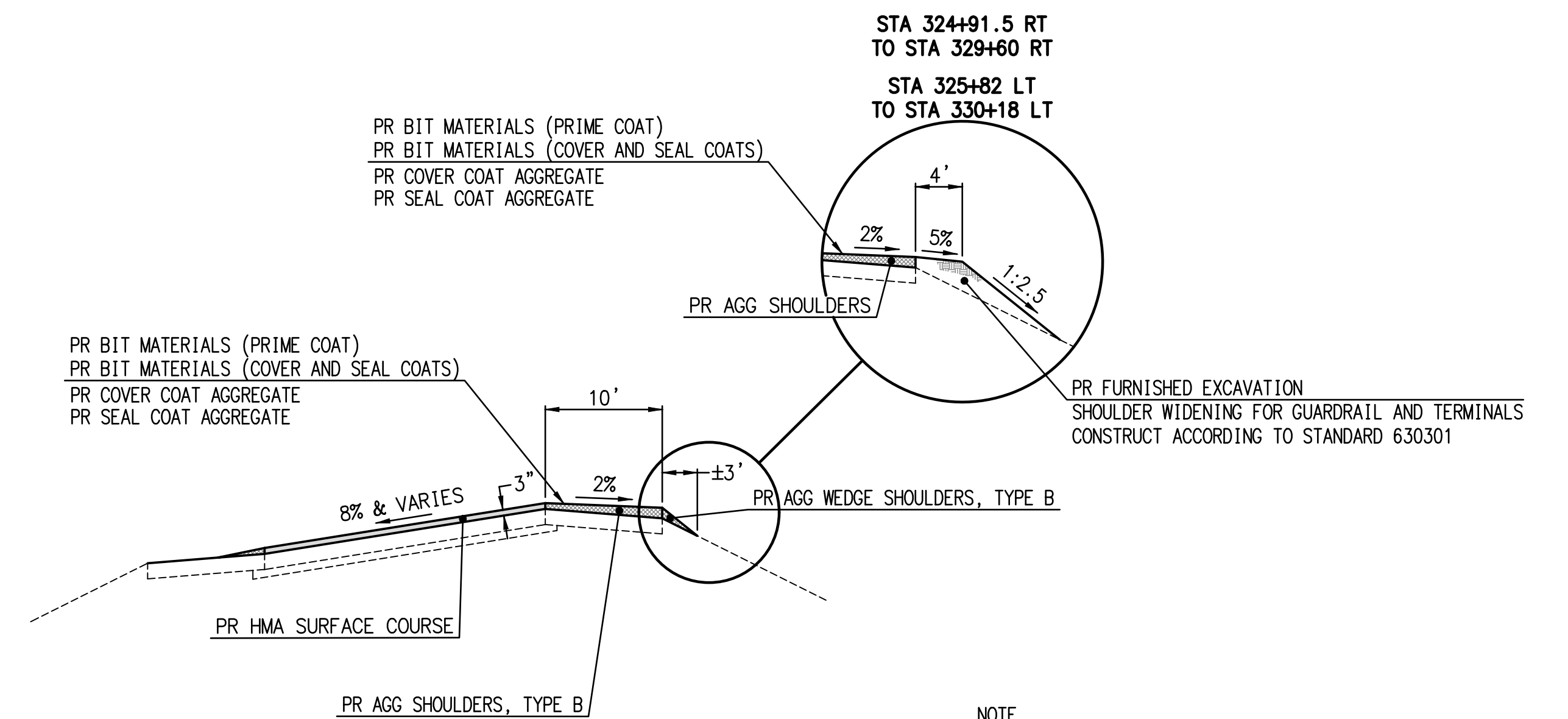
SECTION A-A
AGGREGATE OR
DIRT ENTRANCE
(NOT TO SCALE)

TYPICAL ENTRANCE DETAIL
SEE ENTRANCE SCHEDULE FOR LOCATION AND TYPE

NOTE
USE 1:240 MAX LONGITUDINAL SLOPE TO TRANSITION FROM EXISTING SHOULDER GRADE TO PROPOSED SHOULDER
BUILD UP GRADE - STA 307+61.53 LT TO STA 307+71.53 LT
STA 317+64.30 LT TO STA 317+74.30 LT; AND
STA 336+20.84 LT TO STA 336+30.84 LT



DETAIL OF SHOULDER BULDUP
STA 307+61.53 LT TO STA 317+74.30 LT
STA 336+20.84 LT TO STA 341+82.50 LT
(NOT TO SCALE)

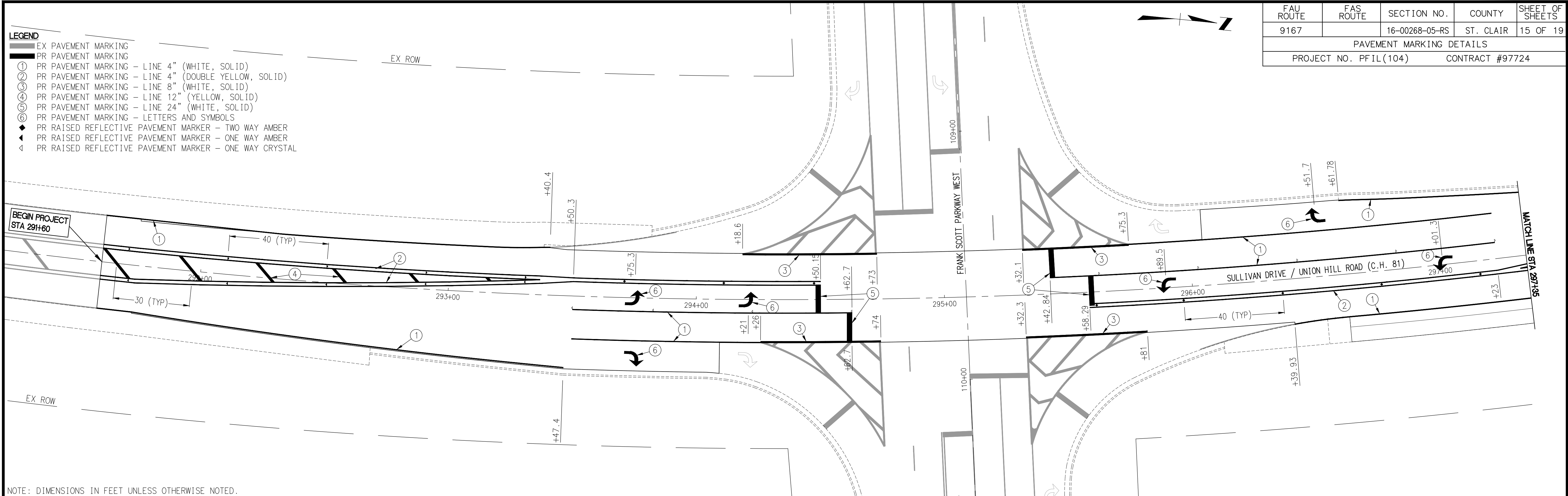


NOTE
USE 1:240 MAX LONGITUDINAL SLOPE TO TRANSITION FROM EXISTING SHOULDER GRADE TO PROPOSED SHOULDER
BUILD UP GRADE - STA 323+73.79 RT TO STA 323+53.79 RT AND
STA 330+04.95 RT TO STA 330+14.95 RT

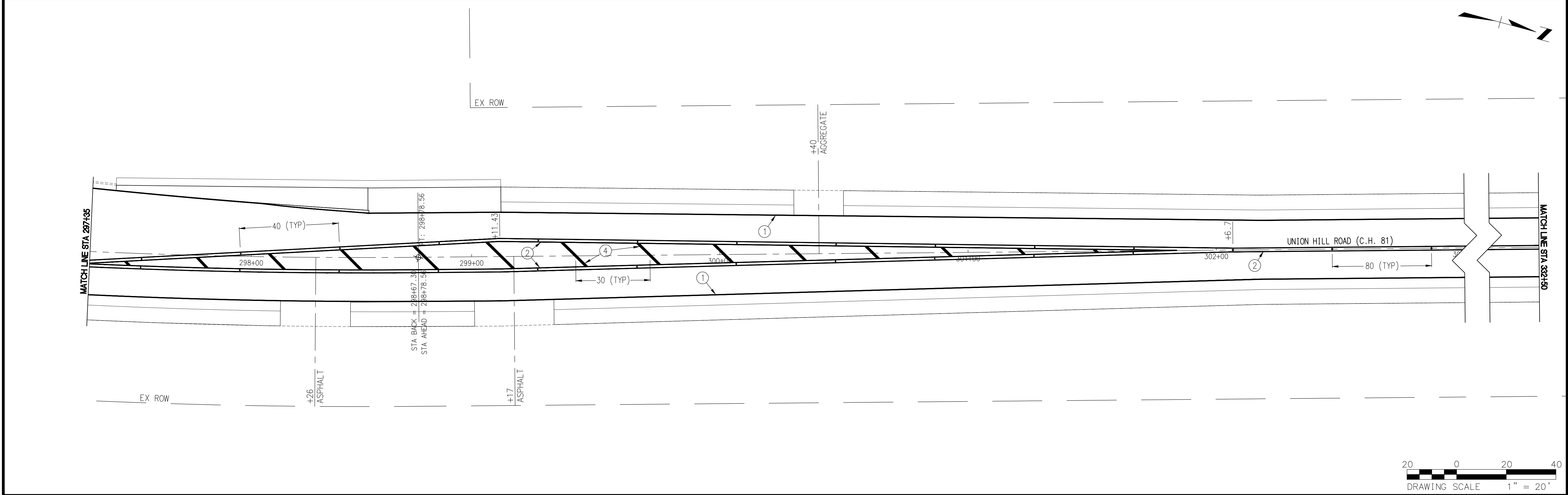
DETAIL OF SHOULDER BULDUP
STA 323+73.79 RT TO STA 330+14.95 RT
(NOT TO SCALE)

FAU ROUTE	FAS ROUTE	SECTION NO.	COUNTY	SHEET OF SHEETS
9167		16-00268-05-RS	ST. CLAIR	15 OF 19
PAVEMENT MARKING DETAILS				
PROJECT NO. PFIL(104)			CONTRACT #97724	

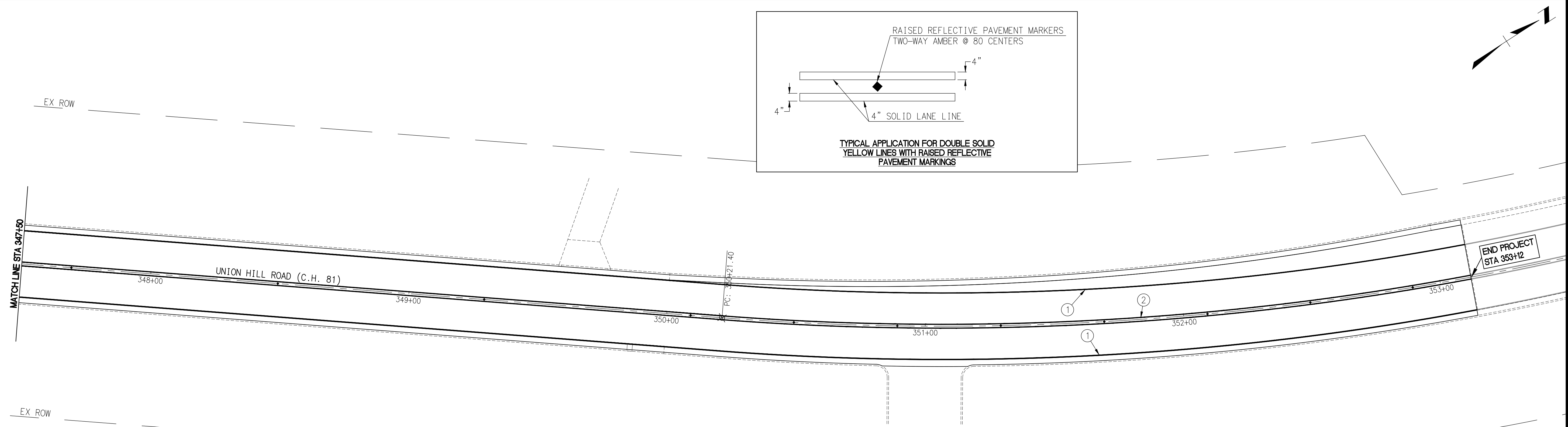
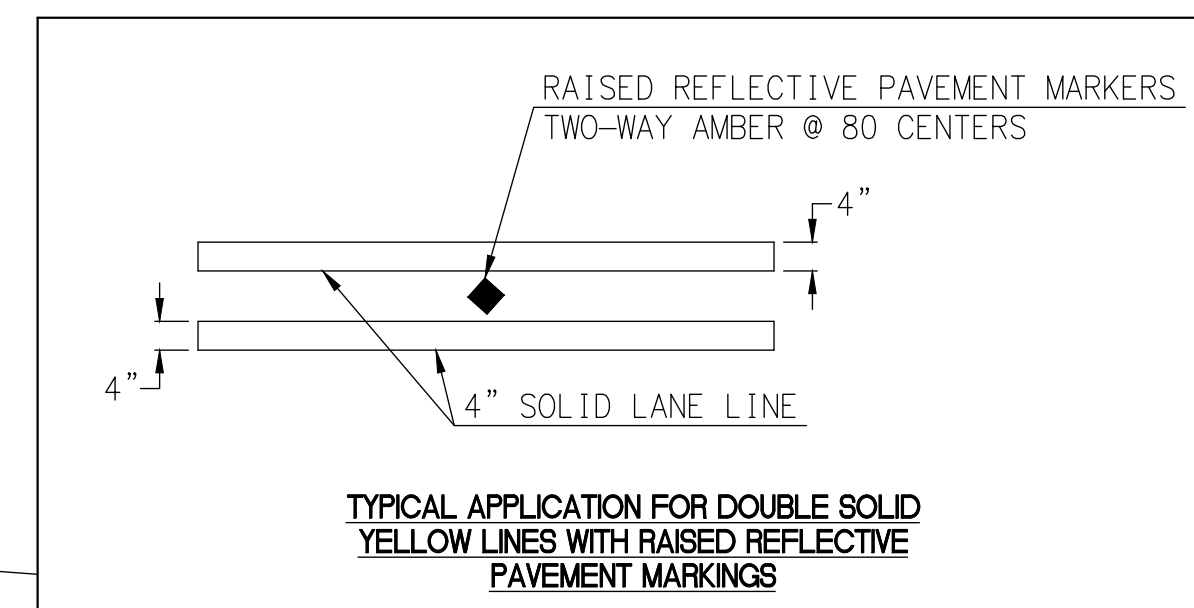
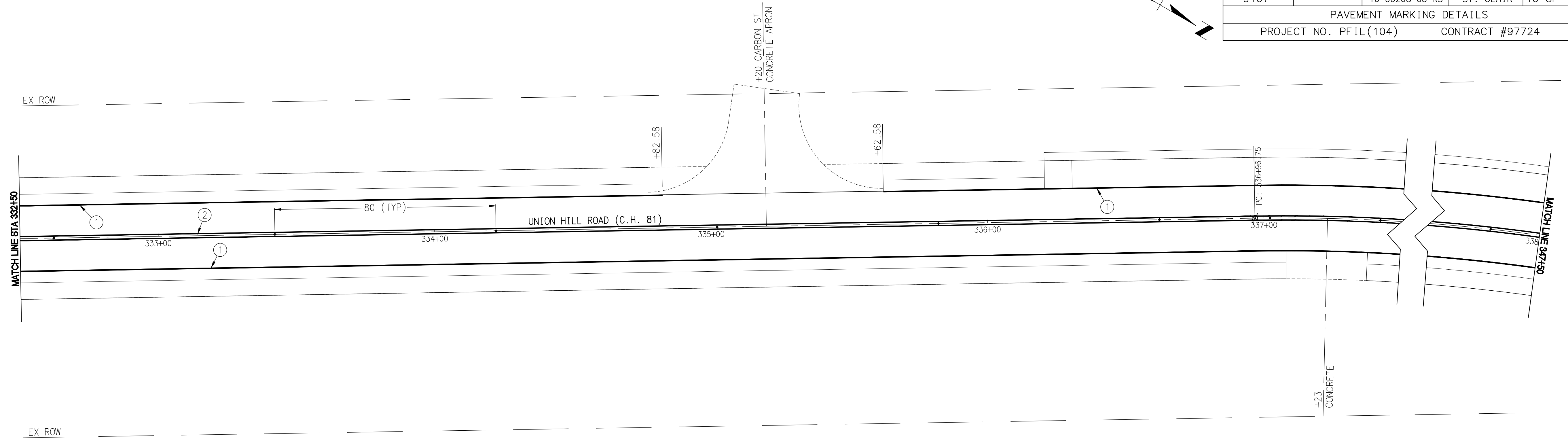
- LEGEND**
- EX PAVEMENT MARKING
 - PR PAVEMENT MARKING
 - ① PR PAVEMENT MARKING - LINE 4" (WHITE, SOLID)
 - ② PR PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW, SOLID)
 - ③ PR PAVEMENT MARKING - LINE 8" (WHITE, SOLID)
 - ④ PR PAVEMENT MARKING - LINE 12" (YELLOW, SOLID)
 - ⑤ PR PAVEMENT MARKING - LINE 24" (WHITE, SOLID)
 - ⑥ PR PAVEMENT MARKING - LETTERS AND SYMBOLS
 - ◆ PR RAISED REFLECTIVE PAVEMENT MARKER - TWO WAY AMBER
 - ▲ PR RAISED REFLECTIVE PAVEMENT MARKER - ONE WAY AMBER
 - 4 PR RAISED REFLECTIVE PAVEMENT MARKER - ONE WAY CRYSTAL



NOTE: DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.



FAU ROUTE	FAS ROUTE	SECTION NO.	COUNTY	SHEET OF SHEETS
9167		16-00268-05-RS	ST. CLAIR	16 OF 19
PAVEMENT MARKING DETAILS				
PROJECT NO. PFIL(104)			CONTRACT #97724	

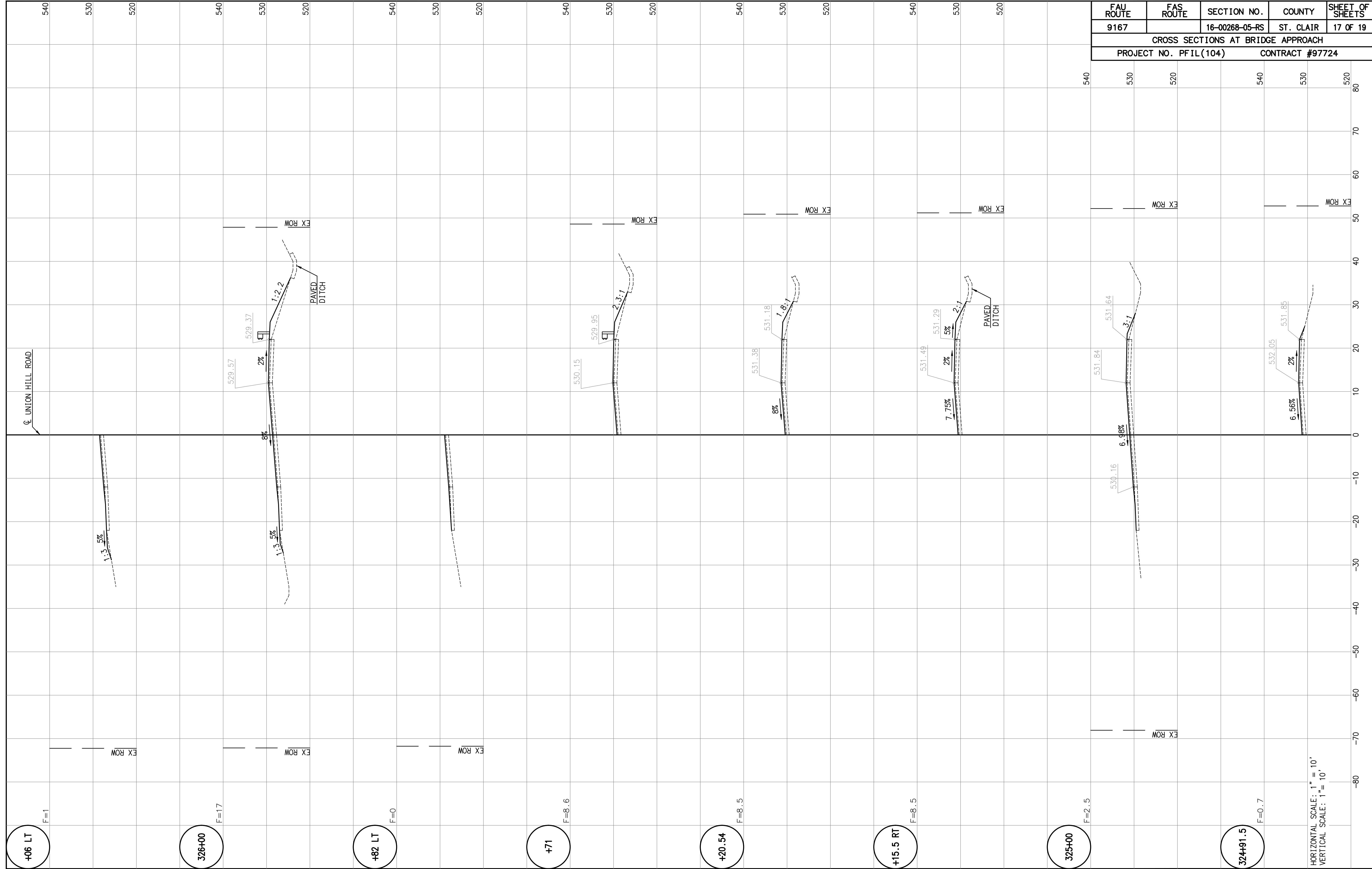


- LEGEND**
- EX PAVEMENT MARKING
 - PR PAVEMENT MARKING
 - ① PR PAVEMENT MARKING - LINE 4" (WHITE, SOLID)
 - ② PR PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW, SOLID)
 - ◆ PR RAISED REFLECTIVE PAVEMENT MARKER - TWO WAY AMBER

NOTE: DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

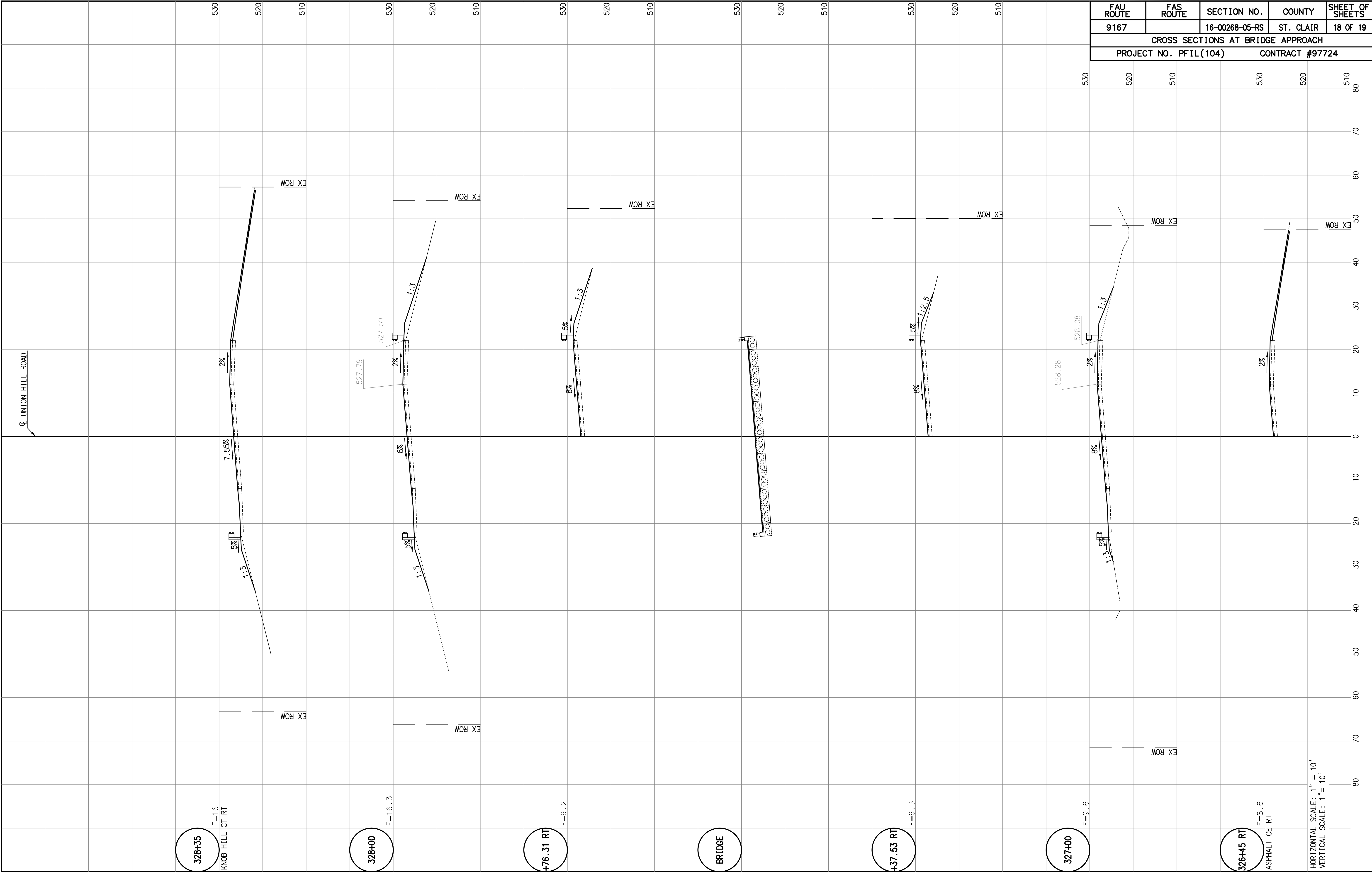


FAU ROUTE	FAS ROUTE	SECTION NO.	COUNTY	SHEET OF SHEETS
9167		16-00268-05-RS	ST. CLAIR	17 OF 19
CROSS SECTIONS AT BRIDGE APPROACH				
PROJECT NO. PFIL(104)			CONTRACT #97724	



HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'

FAU ROUTE	FAS ROUTE	SECTION NO.	COUNTY	SHEET OF SHEETS
9167		16-00268-05-RS	ST. CLAIR	18 OF 19
CROSS SECTIONS AT BRIDGE APPROACH				
PROJECT NO. PFIL(104)		CONTRACT #97724		



328+35
F=16
KNOB HILL CT RT

328+00
F=16.3

+76.31 RT
F=9.2

BRIDGE

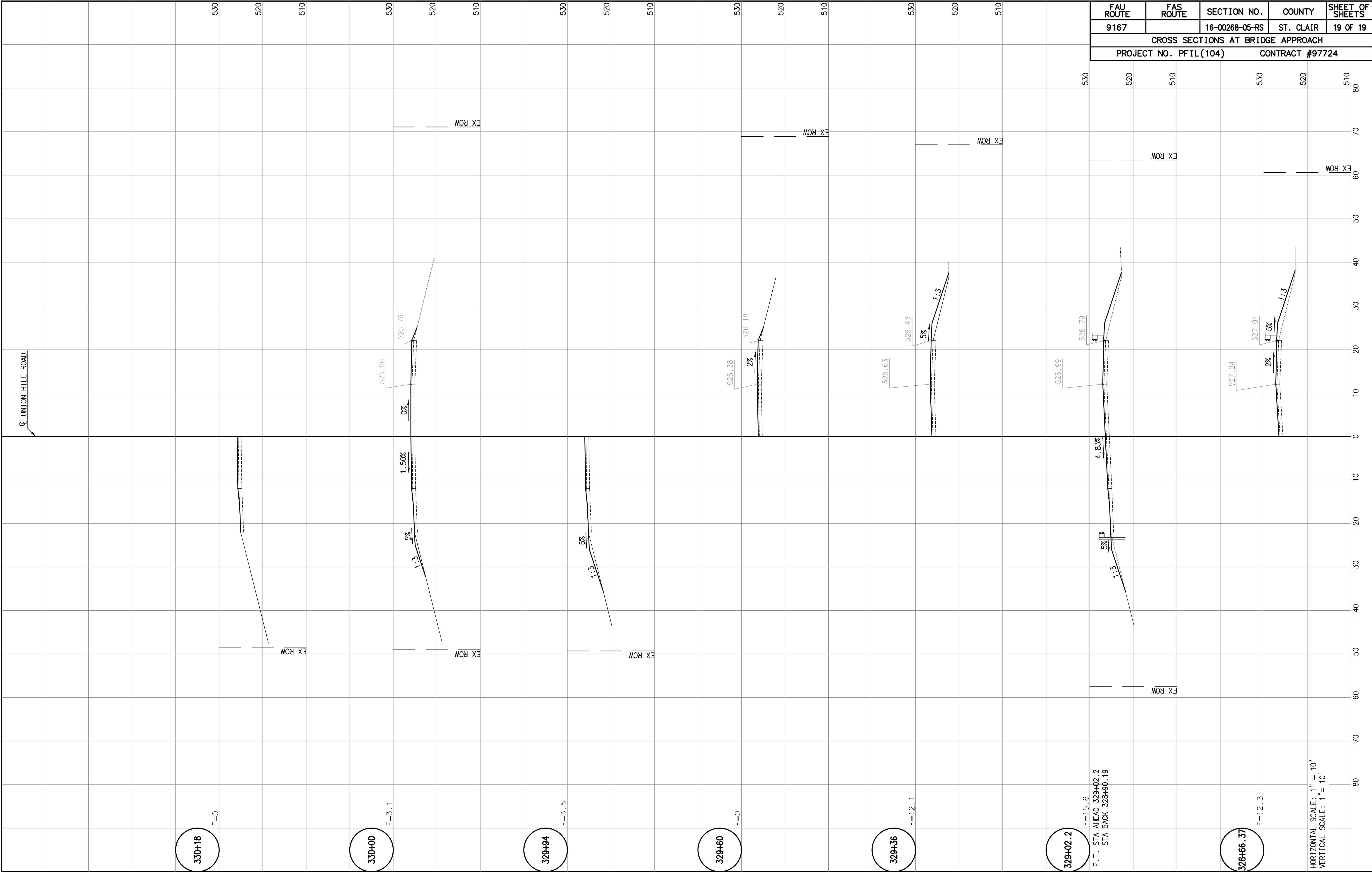
+37.53 RT
F=6.3

327+00
F=9.6

326+45 RT
F=8.6
ASPHALT CE RT

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'

FAU ROUTE	FAS ROUTE	SECTION NO.	COUNTY	SHEET OF SHEETS
9167		16-00268-05-RS	ST. CLAIR	19 OF 19
CROSS SECTIONS AT BRIDGE APPROACH				
PROJECT NO. PFIL(104)			CONTRACT #97724	



UNION HILL ROAD

330+18
F=0

330+00
F=3.1

329+94
F=3.5

329+60
F=0

329+36
F=12.1

329+02.2
F=15.6
P.T. STA AHEAD 329+02.2
STA BACK 328+90.19

328+66.37
F=12.3

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'