



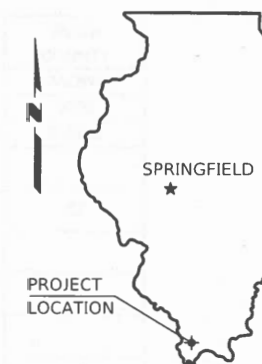
01-16-2026 LETTING ITEM 217

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED

SURFACE TRANSPORTATION PROGRAM

COUNTY HIGHWAY 3 (LAKE ROAD)
SECTION 22-00218-00-RS
PROJECT NO. AEGB(342)
JOB NO. C-99-005-25

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 3	22-00218-00-RS	UNION	14	1
PROJECT NO. AEGB(342)			CONTRACT NO. 99758	



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720001-01 SIGN PANEL MOUNTING DETAILS
720006-04 SIGN PANEL ERECTION DETAILS
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781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
BLR 24-2 MAILBOX TURNOUT FOR LOCAL ROADS

CONTRACT NO. 99758

Round Table Design, Inc.

PROFESSIONAL ENGINEERING - LAND SURVEYING
1020 MAIN STREET MT. VERNON, IL (618) 244-7819
Illinois Professional Design Firm Number: 184-001614



Kevin Phillips
PROFESSIONAL ENGINEER
#062-047293
EXPIRES NOV. 30, 2025

UNION COUNTY



LOCATION MAP

SCALE: 1" = 2 MILES

NET LENGTH OF IMPROVEMENT = 29,323.01 FT. = 5.5536 MILES

BEGIN IMPROVEMENT
STATION 0+12.2

EQ STA 24+78.27 BACK
= STA 24+87.15 AHEAD

EQ STA 175+76.49 BACK
= STA 201+00 AHEAD

EQ STA 273+00 BACK
= STA 272+50 AHEAD

OMISSION
STA 307+50 - STA 308+75

END IMPROVEMENT
STATION 319+42.6

CLASSIFICATION : MINOR COLLECTOR
ADT : 250
DESIGN SPEED : 50 MPH

ILLINOIS DEPARTMENT OF TRANSPORTATION

Approved 11/04/2025

Union County Engineer

Passed 11-6-25

District 9 Engineer of Local Roads and Streets

Releasing for Bid
Based on Limited
Review

11-6-25

Deputy Director of Highways
Region Five Engineer

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 3	22-00218-00-R5	UNION	14	2
PROJECT NO. AEGB(342)			CONTRACT NO. 99758	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	UNION COUNTY ROADWAY
				0005 RURAL
20800150	TRENCH BACKFILL	CU YD	29	29
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	50	50
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	134	134
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3250	3250
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	44835	44835
40600370	LONGITUDINAL JOINT SEALANT	FOOT	29131	29131
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	226	226
40600990	TEMPORARY RAMP	SQ YD	45	45
40602970	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70	TON	9620	9620
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	4730	4730
44200065	PAVEMENT PATCHING, TYPE II, 6 INCH	SQ YD	20	20
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	5794	5794
54262730	METAL FLARED END SECTIONS 30"	EACH	2	2
54262848	METAL FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 48"	EACH	2	2
542C0235	PIPE CULVERTS, CLASS C, TYPE 1 30"	FOOT	52	52

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	UNION COUNTY ROADWAY
				0005 RURAL
542C5503	PIPE CULVERTS, CLASS C, TYPE 1 EQUIVALENT ROUND-SIZE 48"	FOOT	52	52
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	2	2
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	837.5	837.5
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1
* 63200400	CABLE ROAD GUARD REMOVAL	FOOT	822	822
67100100	MOBILIZATION	L SUM	1	1
* 72000100	SIGN PANEL - TYPE 1	SQ FT	244	244
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	8	8
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	1	1
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	526	526
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	104020	104020
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	413	413
* X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	37.5	37.5
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
XX005569	MAILBOX REMOVAL AND REINSTALLATION	EACH	10	10

* SPECIALTY ITEM

SUMMARY OF QUANTITIES
COUNTY HIGHWAY 3 (LAKE ROAD)
SECTION 22-00218-00-R5
PROJECT NO. AEGB(342)
UNION COUNTY

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 3	22-00218-00-RS	UNION	14	3
PROJECT NO. AEGB(342)			CONTRACT NO. 99758	

PAVEMENT SCHEDULE					
LOCATION	40600275	40600290	40600370	40602970	40604052
	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	LONGITUDINAL JOINT SEALANT	HOT-MIX ASPHALT BINDER COURSE IL-9.5FG, N70	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70
	0.25# / SQ FT	0.025# / SQ FT		112# / SQ YD / IN	112# / SQ YD / IN
	POUND	POUND	FOOT	TON	TON
LAKE ROAD		43,985.0	29,131.0	9,245.4	4,572.2
ENTRANCES	2,128.0	267.4		164.6	71.4
SIDE ROADS	282.5	499.2		143.2	57.8
MAILBOX TURNOUTS	836.7	83.4		65.4	27.6
TOTAL	3,247.2	44,835.0	29,131.0	9,618.6	4,729.0
USE	3,250	44,835	29,131	9,620	4,730

PATCHING SCHEDULE		
STATION*	SIDE	44200065
		PAVEMENT PATCHING, TYPE II, 6 INCH
		SQ YD
38+43	LT/RT	14
78+75	LT/RT	6
TOTAL		20

* AT LOCATIONS OF CULVERT REPLACEMENT

FRAME & LID ADJUSTMENT SCHEDULE		
STATION	SIDE	60300305
		FRAMES & LIDS TO BE ADJUSTED
		EACH
317+15	LT	1
319+21	RT	1
TOTAL		2

BUTT JOINT SCHEDULE					
STATION TO STATION		SIDE	40600982	40600990	
			HMA SURFACE REMOVAL - BUTT JOINTS	TEMPORARY RAMPS	
			SQ YD	SQ YD	
0+12.2	0+16.4	LT/RT		27	
0+12.2	0+37.2	LT/RT	128		
319+17.6	319+42.6	LT/RT	98		
319+38.4	319+42.6	LT/RT		18	
TOTAL			226	45	

PIPE CULVERT SCHEDULE						
STATION	SIDE	20800150	54262730	54262848	542C0235	542C5503
		TRENCH BACKFILL	METAL FLARED END SECTIONS		PIPE CULVERTS, CLASS C TYPE 1	
			30"	EQRS 48"	30"	EQRS 48"
		CU YD	EACH	EACH	FOOT	FOOT
38+43	LT/RT	18		2		52
78+75	LT/RT	11	2		52	
TOTAL		29	2	2	52	52

RIPRAP SCHEDULE		
STATION*	SIDE	28100807
		STONE DUMPED RIPRAP, CLASS A4
		TON
71+86	RT	5
78+75	LT/RT	10
95+20	LT	5
107+06	LT	10
128+75	LT	5
151+11	LT	10
259+51	RT	5
TOTAL		50

* AT ENDS OF PIPE CULVERTS

MAILBOX SCHEDULE		
STATION	SIDE	XX005569
		MAILBOX REMOVAL AND REINSTALLATION
		EACH
24+50	RT	1
90+92	RT	1
138+85	RT	1
152+18	RT	1
215+70	RT	1
256+19	RT	1
270+90	RT	1
302+56	RT	1
316+83	RT	2
TOTAL		10

SIGN SCHEDULE						
STATION	FACING	DESIGNATION	SIZE (W x H)	72000100	72800100	DESCRIPTION
				SIGN PANEL - TYPE 1	TELESCOPING STEEL SIGN SUPPORT	
				SQ FT	FOOT	
3+50	W	W14-3	48 x 48 x 36	5.8	15.0	NO PASSING ZONE
7+20	W	W1-5(R)	30 x 30	6.3	16.0	WINDING ROAD (R)
		W13-1P(40)	18 x 18	2.3		ADVISORY SPEED (40)
33+30	E	W1-5(L)	30 x 30	6.3	16.0	WINDING ROAD (L)
		W13-1P(40)	18 x 18	2.3		ADVISORY SPEED (40)
38+50	W	W1-2(R)	30 x 30	6.3	16.0	CURVE (R)
		W13-1P(50)	18 x 18	2.3		ADVISORY SPEED (50)
47+25	E	W1-2(L)	30 x 30	6.3	16.0	CURVE (L)
		W13-1P(50)	18 x 18	2.3		ADVISORY SPEED (50)
51+00	W	W1-4(L)	30 x 30	6.3	16.0	REVERSE CURVE (L)
		W13-1P(50)	18 x 18	2.3		ADVISORY SPEED (50)
71+60	E	W1-4(L)	30 x 30	6.3	16.0	REVERSE CURVE (L)
		W13-1P(50)	18 x 18	2.3		ADVISORY SPEED (50)
76+25	E	W14-3	48 x 48 x 36	5.8	15.0	NO PASSING ZONE
85+50	W	W14-3	48 x 48 x 36	5.8	15.0	NO PASSING ZONE
95+25	W	W14-3	48 x 48 x 36	5.8	15.0	NO PASSING ZONE
97+75	E	W14-3	48 x 48 x 36	5.8	15.0	NO PASSING ZONE
106+75	W	W1-2(L)	30 x 30	6.3	16.0	CURVE (L)
		W13-1P(50)	18 x 18	2.3		ADVISORY SPEED (50)
116+80	E	W1-2(R)	30 x 30	6.3	16.0	CURVE (R)
		W13-1P(50)	18 x 18	2.3		ADVISORY SPEED (50)
127+00	W	W14-3	48 x 48 x 36	5.8	15.0	NO PASSING ZONE
127+50	E	W14-3	48 x 48 x 36	5.8	15.0	NO PASSING ZONE
128+50	W	W1-2(R)	30 x 30	6.3	15.0	CURVE (R)
136+10	W	W1-4(L)	30 x 30	6.3	16.0	REVERSE CURVE
		W13-1P(40)	18 x 18	2.3		ADVISORY SPEED (40)
137+95	E	W1-2(L)	30 x 30	6.3	15.0	CURVE (L)
148+60	E	W1-4(L)	30 x 30	6.3	16.0	REVERSE CURVE (L)
		W13-1P(40)	18 x 18	2.3		ADVISORY SPEED (40)
154+30	W	W1-4(L)	30 x 30	6.3	16.0	REVERSE CURVE (L)
		W13-1P(40)	18 x 18	2.3		ADVISORY SPEED (40)
201+50	W	W14-3	48 x 48 x 36	5.8	15.0	NO PASSING ZONE
		W1-4(L)	30 x 30	6.3		REVERSE CURVE (L)
201+75	E	W13-1P(40)	18 x 18	2.3	16.0	ADVISORY SPEED (40)
		W14-3	48 x 48 x 36	5.8		NO PASSING ZONE
205+74	E	W14-3	48 x 48 x 36	5.8	15.0	NO PASSING ZONE
247+25	E	W14-3	48 x 48 x 36	5.8	15.0	NO PASSING ZONE
256+00	W	W14-3	48 x 48 x 36	5.8	15.0	NO PASSING ZONE
260+50	W	W1-2(L)	30 x 30	6.3	16.0	CURVE (L)
		W13-1P(50)	18 x 18	2.3		ADVISORY SPEED (50)
269+70	E	W1-2(R)	30 x 30	6.3	16.0	CURVE (R)
		W13-1P(50)	18 x 18	2.3		ADVISORY SPEED (50)
275+80	W	W1-2(R)	30 x 30	6.3	16.0	CURVE (R)
		W13-1P(40)	18 x 18	2.3		ADVISORY SPEED (40)
286+20	E	W1-2(L)	30 x 30	6.3	16.0	CURVE (L)
		W13-1P(40)	18 x 18	2.3		ADVISORY SPEED (40)
292+75	E	W14-3	48 x 48 x 36	5.8	15.0	NO PASSING ZONE
294+50	W	W14-3	48 x 48 x 36	5.8	15.0	NO PASSING ZONE
297+80	W	W1-4(R)	30 x 30	6.3	15.0	REVERSE CURVE (R)
305+80	E	W1-4(R)	30 x 30	6.3	15.0	REVERSE CURVE (R)
307+75	E	W14-3	48 x 48 x 36	5.8	15.0	NO PASSING ZONE
TOTAL				244.0	526.0	
USE				244	526	

SIGN REMOVAL SCHEDULE				
STATION	SIDE	72400100	72400310	DESCRIPTION
		REMOVE SIGN PANEL ASSEMBLY - TYPE A	REMOVE SIGN PANEL - TYPE 1	
		EACH	EACH	
14+60	RT	1		CURVE
19+15	LT	1		CURVE
36+00	LT	1		CURVE
147+00	RT	1		CURVE
152+12	LT	1		CURVE
165+45	LT	1		CURVE
213+98	RT		1	ADVISORY SPEED*
296+22	RT	1		CURVE
307+55	LT	1		CURVE
TOTAL		8	1	

* CURVE SIGN TO REMAIN

PAVEMENT MARKING SCHEDULE				
STATION TO STATION		7800110		
		PAINT PAVEMENT MARKING - LINE 4"		
		CENTERLINE	NO PASSING	EDGE LINE
		SKIP-DASH YELLOW	SOLID YELLOW	SOLID WHITE
		FOOT		
0+12.2	319+42.6	3,200	42,457	58,363
USE		104,020		

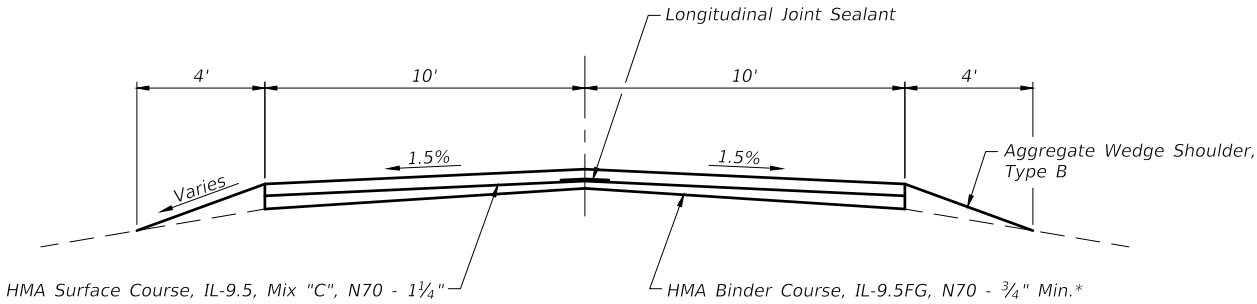
SEE STANDARD 780001 FOR TYPICAL PAVEMENT MARKINGS

"NO PASSING ZONE" SCHEDULE					
WESTBOUND (LEFT) LANE			EASTBOUND (RIGHT) LANE		
STATION TO STATION	FEET		STATION TO STATION	FEET	
12+50	76+25	6,366	3+50	67+25	6,366
94+50	97+75	325	85+50	88+75	325
104+25	127+50	2,325	95+25	118+50	2,325
136+00	205+74	4,450	127+00	171+50	4,450
210+50	247+25	3,675	201+50	238+25	3,675
265+00	292+75	2,825	256+00	284+75	2,925
299+25	307+75	850	294+50	303+00	850
317+25	319+00	175	313+50	319+00	550
TOTAL		20,991			21,466

SCHEDULES OF QUANTITIES

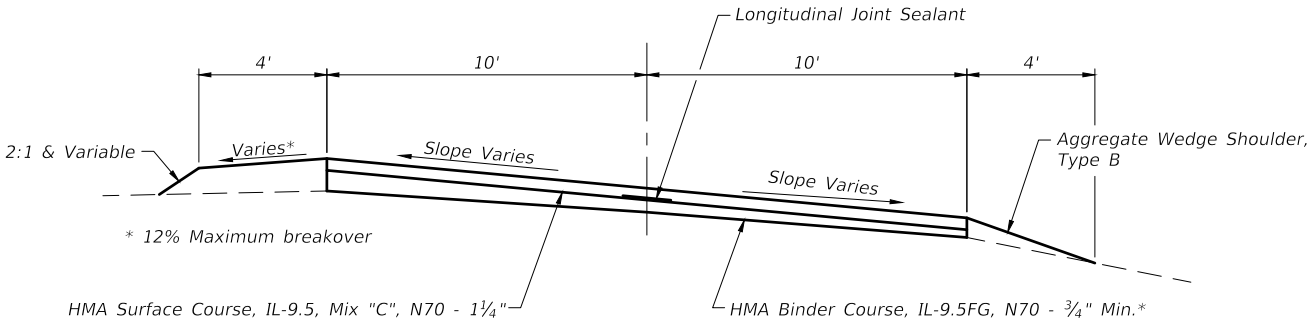
COUNTY HIGHWAY 3 (LAKE ROAD)
SECTION 22-00218-00-RS
PROJECT NO. AEGB(342)
UNION COUNTY

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 3	22-00218-00-RS	UNION	14	4
PROJECT NO. AEGB(342)			CONTRACT NO. 99758	



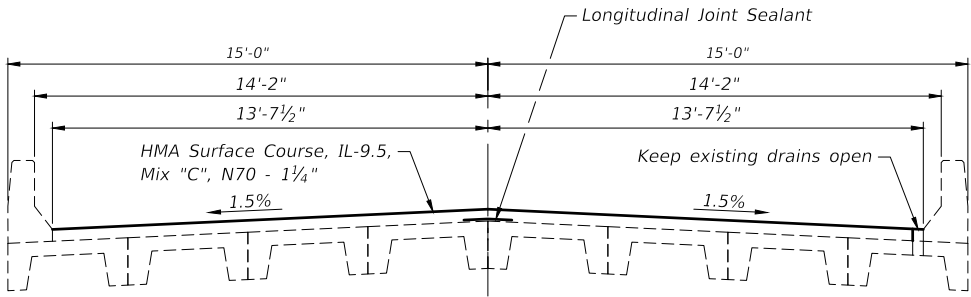
TYPICAL SECTION

* NOTE: Crown and/or superelevation correction shall be completed prior to placing the full lift of HMA Binder Course.



TYPICAL SECTION THRU CURVE

Right curve shown. Reverse for left curve.



TYPICAL SECTION ON BRIDGE

Sta 7+43 - Sta 8+57
Sta 63+44 - 64+22

GENERAL NOTES

1. This section shall be constructed in accordance with the Plans, Special Provisions, and the "Standard Specifications for Road and Bridge Construction", adopted January 1, 2022.
2. Utilities shown were located from visible facilities and surface markings only. Utilities shall be field located horizontally and vertically prior to beginning any work. The Contractor is responsible for the field location of these utilities.
3. It shall be the Contractors responsibility to verify all existing field dimensions and conditions prior to construction and ordering materials.
4. Any reference to a Standard in these plans shall be interpreted to mean the edition indicated by the subnumber listed on the Index of Sheets or the copy of the Standard included in the plans.
5. Factors used for quantity calculations are as follows:

Hot-Mix Asphalt	112.0 Lbs/Sq Yd/Inch
Aggregate	2.025 Tons/Cu Yd
Bit Materials (Prime Coat), on Agg Base	0.25 Lbs/Sq Ft
Bit Materials (Tack Coat), on Oil&Chip Base	0.05 Lbs/Sq Ft
on HMA Lift	0.025 Lbs/Sq Ft

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

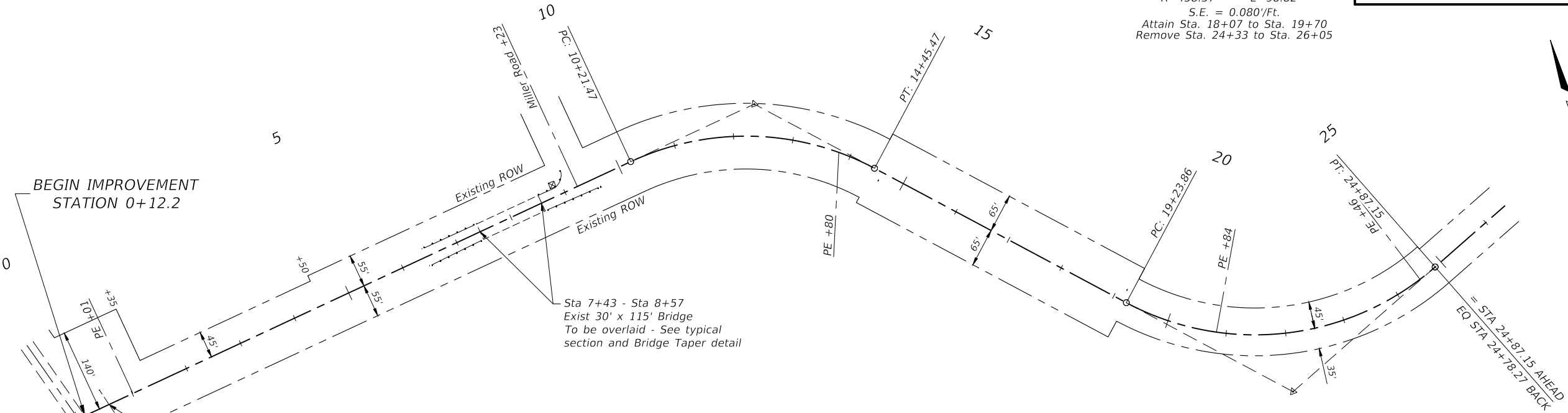
Mixture Use:	HMA Binder Cse, IL-9.5FG, N70	HMA Surface Cse, IL-9.5 Mix C, N70
Thickness	3/4" Minimum	1 1/4"
PG:	PG 64-22	PG 64-22
RAP% (Max):	10	10
Design Air Voids:	4% @ Ndes 70	4% @ Ndes 70
Mixture Composition: (Gradation Mixture)	IL-9.5mm	IL-9.5mm
Friction Aggregate:	None	C Surface

TYPICAL SECTIONS
& GENERAL NOTES
COUNTY HIGHWAY 3 (LAKE ROAD)
SECTION 22-00218-00-RS
PROJECT NO. AEGB(342)
UNION COUNTY

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 3	22-00218-00-RS	UNION	14	5
PROJECT NO. AEGB(342)			CONTRACT NO. 99758	

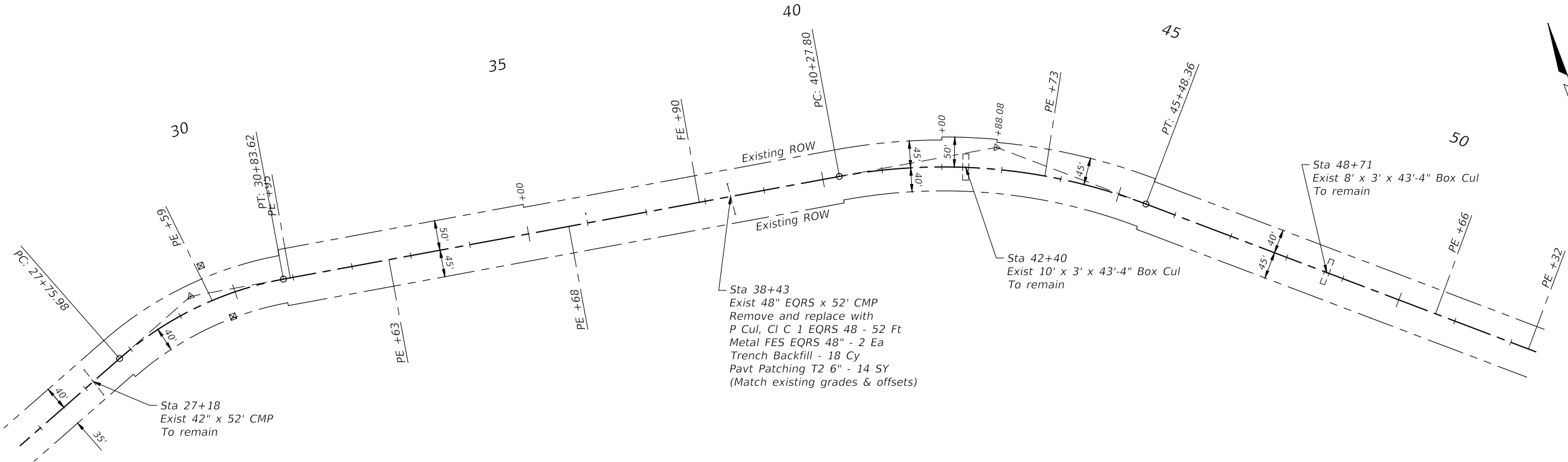
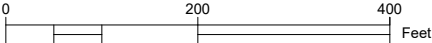
CURVE DATA - PI STA=22+40.66

$\Delta=69^{\circ}18'00''$ $T=316.80'$
 $D=12^{\circ}30'00''$ $L=554.40'$
 $R=458.37'$ $E=98.82'$
 $S.E. = 0.080'/Ft.$
Attain Sta. 18+07 to Sta. 19+70
Remove Sta. 24+33 to Sta. 26+05



CURVE DATA - PI STA=12+50.00

$\Delta=53^{\circ}00'00''$ $T=228.53'$
 $D=12^{\circ}30'00''$ $L=424.00'$
 $R=458.37'$ $E=53.81'$
 $S.E. = 0.080'/Ft.$
Attain Sta. 9+05 to Sta. 10+68
Remove Sta. 14+00 to Sta. 15+63



CURVE DATA - PI STA=29+33.60

$\Delta=30^{\circ}46'00''$ $T=157.63'$
 $D=10^{\circ}00'02''$ $L=307.65'$
 $R=572.92'$ $E=21.29'$
 $S.E. = 0.077'/Ft.$
Attain Sta. 26+63 to Sta. 28+21
Remove Sta. 30+40 to Sta. 31+98

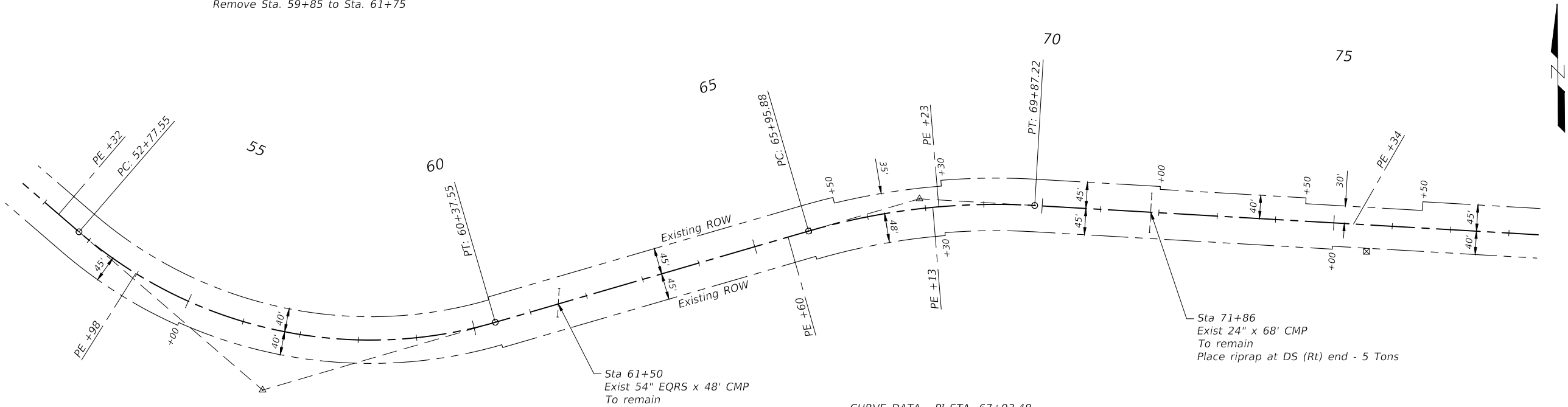
CURVE DATA - PI STA=42+94.73

$\Delta=31^{\circ}14'00''$ $T=266.92'$
 $D=6^{\circ}00'00''$ $L=520.56'$
 $R=954.93'$ $E=36.60'$
 $S.E. = 0.077'/Ft.$
Attain Sta. 38+96 to Sta. 40+80
Remove Sta. 44+98 to Sta. 46+82

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 3	22-00218-00-RS	UNION	14	6
PROJECT NO. AEGB(342)			CONTRACT NO. 99758	

CURVE DATA - PI STA=56+92.34

$\Delta=57^{\circ}00'00''$ $T=414.79'$
 $D=7^{\circ}30'00''$ $L=760.00'$
 $R=763.94'$ $E=105.34'$
 $S.E. = 0.080'/Ft.$
Attain Sta. 51+41 to Sta. 53+31
Remove Sta. 59+85 to Sta. 61+75

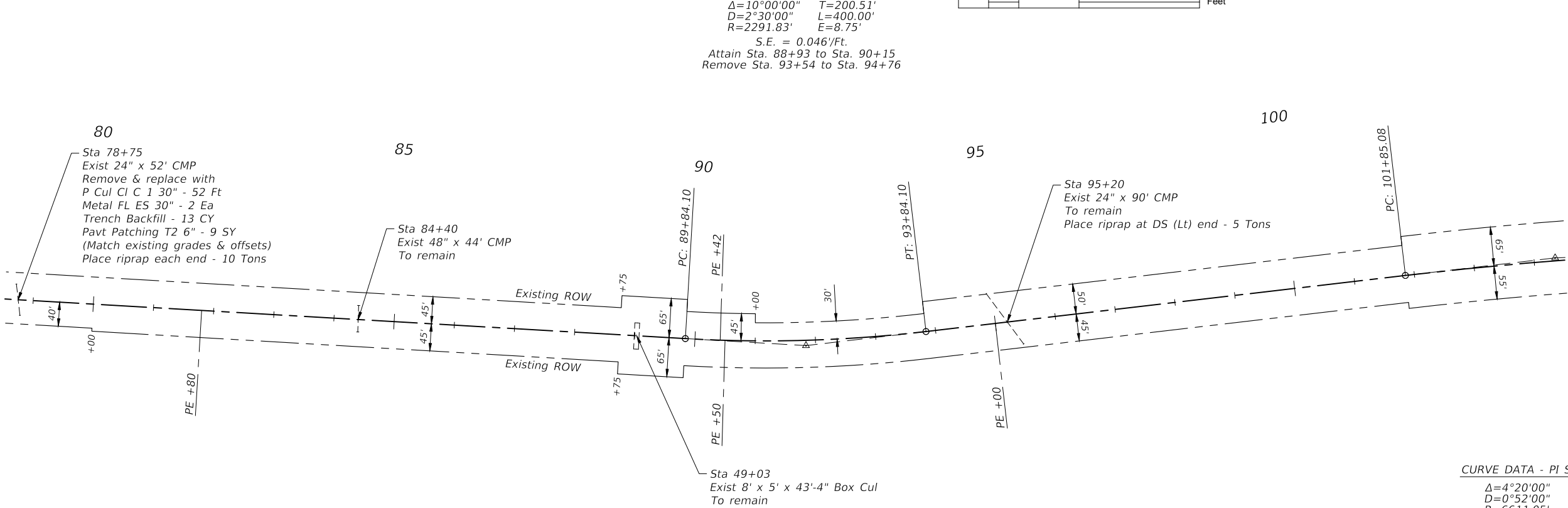
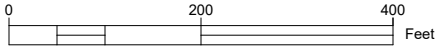


CURVE DATA - PI STA=67+93.48

$\Delta=19^{\circ}34'00''$ $T=197.59'$
 $D=5^{\circ}00'00''$ $L=391.33'$
 $R=1145.92'$ $E=16.91'$
 $S.E. = 0.072'/Ft.$
Attain Sta. 64+70 to Sta. 66+44
Remove Sta. 69+40 to Sta. 71+14

CURVE DATA - PI STA=91+84.61

$\Delta=10^{\circ}00'00''$ $T=200.51'$
 $D=2^{\circ}30'00''$ $L=400.00'$
 $R=2291.83'$ $E=8.75'$
 $S.E. = 0.046'/Ft.$
Attain Sta. 88+93 to Sta. 90+15
Remove Sta. 93+54 to Sta. 94+76



CURVE DATA - PI STA=104+35.20

$\Delta=4^{\circ}20'00''$ $T=250.12'$
 $D=0^{\circ}52'00''$ $L=500.00'$
 $R=6611.05'$ $E=4.73'$
 $S.E. = 0.015'/Ft.$
Attain Sta. 101+36 to Sta. 101+96
Remove Sta. 106+76 to Sta. 107+06
(Level Crown at Sta 107+06)

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 3	22-00218-00-RS	UNION	14	7
PROJECT NO. AEGB(342)			CONTRACT NO. 99758	

CURVE DATA - PI STA=111+96.30
 $\Delta=45^{\circ}57'00''$ $T=347.02'$
 $D=7^{\circ}00'00''$ $L=656.43'$
 $R=818.51'$ $E=70.52'$
 $S.E. = 0.080'/\text{Ft.}$
Attain Sta. 107+06 to Sta. 108+66
(Level Crown at Sta 107+06)
Remove Sta. 114+53 to Sta. 116+43

CURVE DATA - PI STA=104+35.20
 $\Delta=4^{\circ}20'00''$ $T=250.12'$
 $D=0^{\circ}52'00''$ $L=500.00'$
 $R=6611.05'$ $E=4.73'$
 $S.E. = 0.015'/\text{Ft.}$
Attain Sta. 101+36 to Sta. 101+96
Remove Sta. 106+76 to Sta. 107+06
(Level Crown at Sta 107+06)

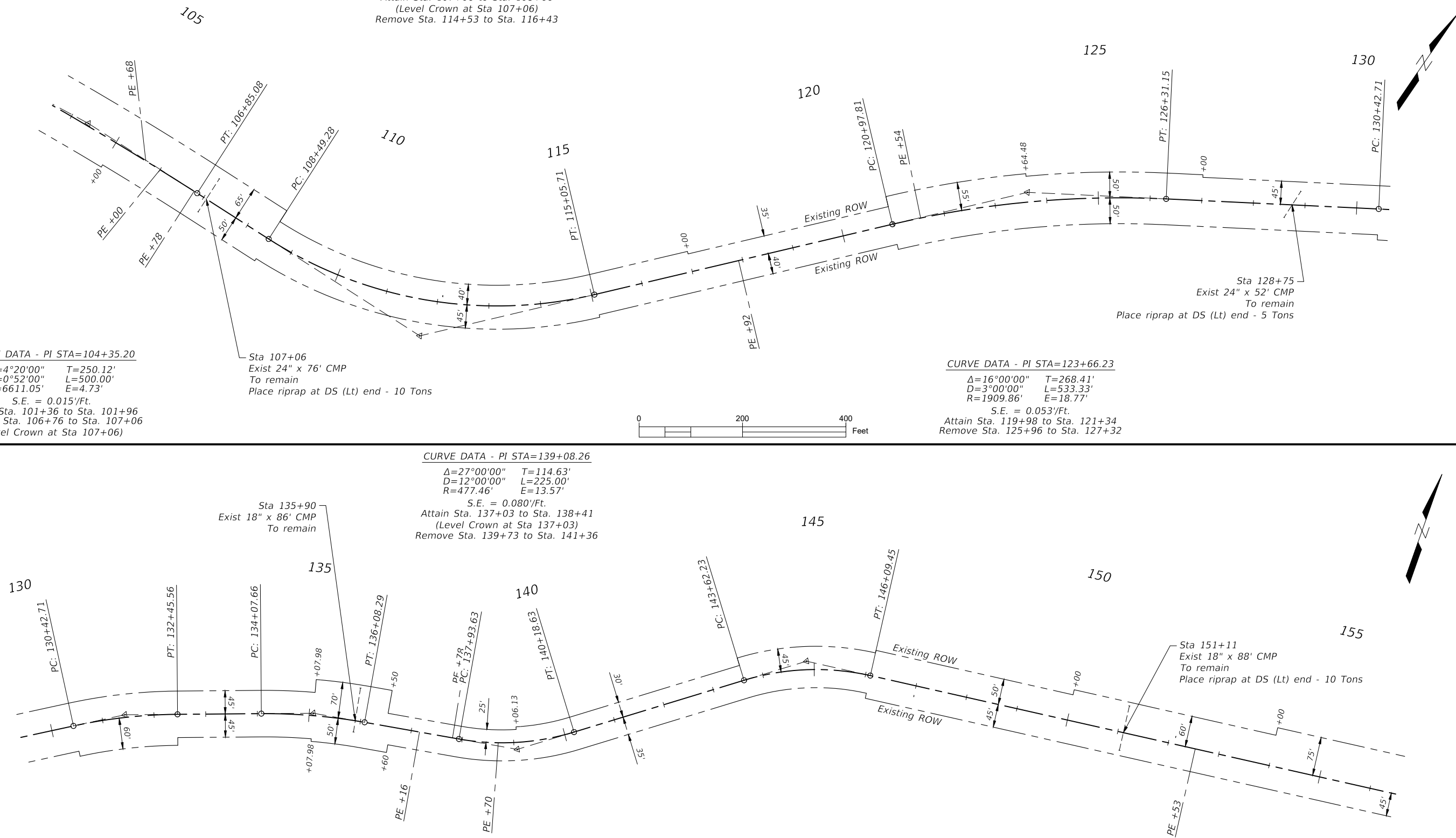
CURVE DATA - PI STA=123+66.23
 $\Delta=16^{\circ}00'00''$ $T=268.41'$
 $D=3^{\circ}00'00''$ $L=533.33'$
 $R=1909.86'$ $E=18.77'$
 $S.E. = 0.053'/\text{Ft.}$
Attain Sta. 119+98 to Sta. 121+34
Remove Sta. 125+96 to Sta. 127+32

CURVE DATA - PI STA=139+08.26
 $\Delta=27^{\circ}00'00''$ $T=114.63'$
 $D=12^{\circ}00'00''$ $L=225.00'$
 $R=477.46'$ $E=13.57'$
 $S.E. = 0.080'/\text{Ft.}$
Attain Sta. 137+03 to Sta. 138+41
(Level Crown at Sta 137+03)
Remove Sta. 139+73 to Sta. 141+36

CURVE DATA - PI STA=144+88.68
 $\Delta=29^{\circ}40'00''$ $T=126.45'$
 $D=12^{\circ}00'00''$ $L=247.22'$
 $R=477.46'$ $E=16.46'$
 $S.E. = 0.080'/\text{Ft.}$
Attain Sta. 142+46 to Sta. 144+09
Remove Sta. 145+64 to Sta. 147+27

CURVE DATA - PI STA=131+44.50
 $\Delta=11^{\circ}50'00''$ $T=101.79'$
 $D=5^{\circ}50'00''$ $L=202.86'$
 $R=982.21'$ $E=5.26'$
 $S.E. = 0.076'/\text{Ft.}$
Attain Sta. 129+12 to Sta. 130+94
Remove Sta. 132+46 to Sta. 134+09
(Full 7.3% SE at Sta 134+09)

CURVE DATA - PI STA=135+08.26
 $\Delta=10^{\circ}30'00''$ $T=100.60'$
 $D=5^{\circ}14'00''$ $L=200.64'$
 $R=1094.82'$ $E=4.61'$
 $S.E. = 0.073'/\text{Ft.}$
Attain Sta. 132+46 to Sta. 134+09
(Full 7.6% SE at Sta 132+46)
Remove Sta. 135+58 to Sta. 137+03
(Level Crown at Sta 137+03)



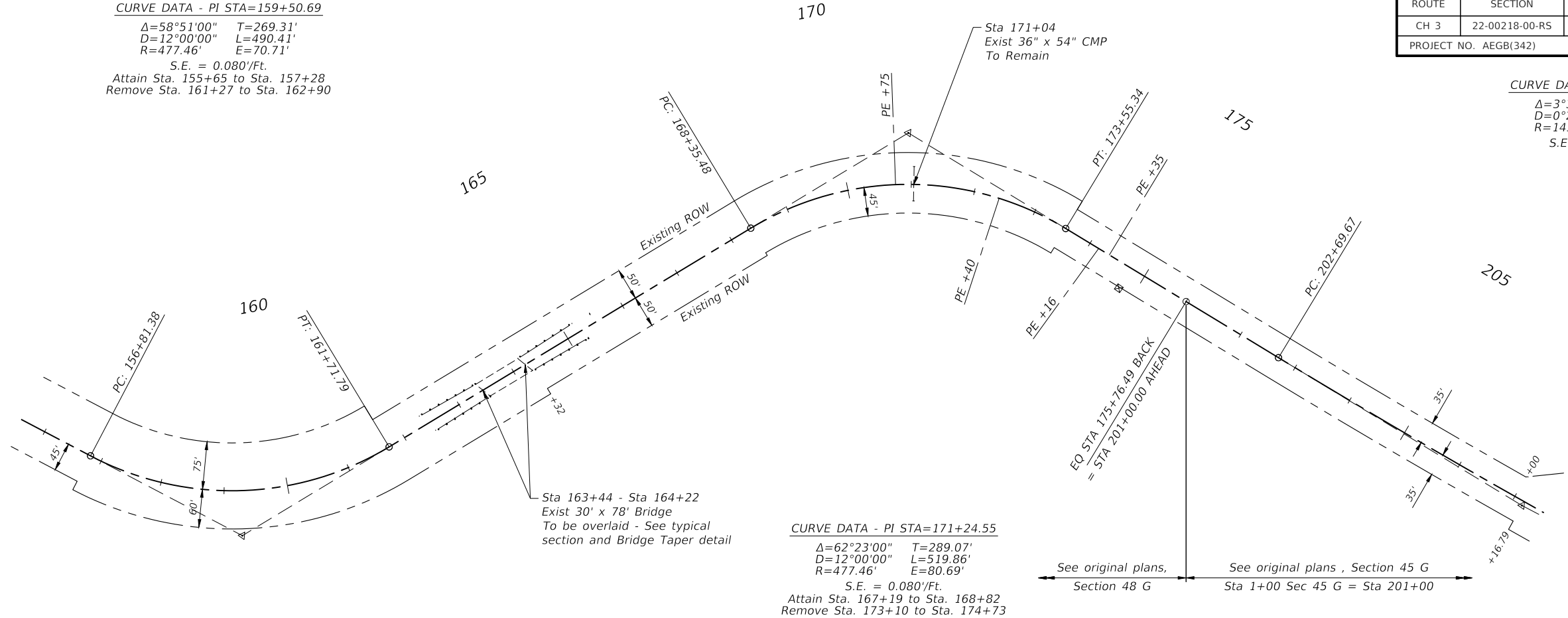
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 3	22-00218-00-RS	UNION	14	8
PROJECT NO. AEGB(342)			CONTRACT NO. 99758	

CURVE DATA - PI STA=159+50.69

$\Delta=58^{\circ}51'00''$ $T=269.31'$
 $D=12^{\circ}00'00''$ $L=490.41'$
 $R=477.46'$ $E=70.71'$
 $S.E. = 0.080'/Ft.$
Attain Sta. 155+65 to Sta. 157+28
Remove Sta. 161+27 to Sta. 162+90

CURVE DATA - PI STA=207+16.93

$\Delta=3^{\circ}34'37''$ $T=447.26'$
 $D=0^{\circ}24'00''$ $L=894.23'$
 $R=14324.00'$ $E=6.98'$
 $S.E. = \text{Normal Crown}$



CURVE DATA - PI STA=221+70.85

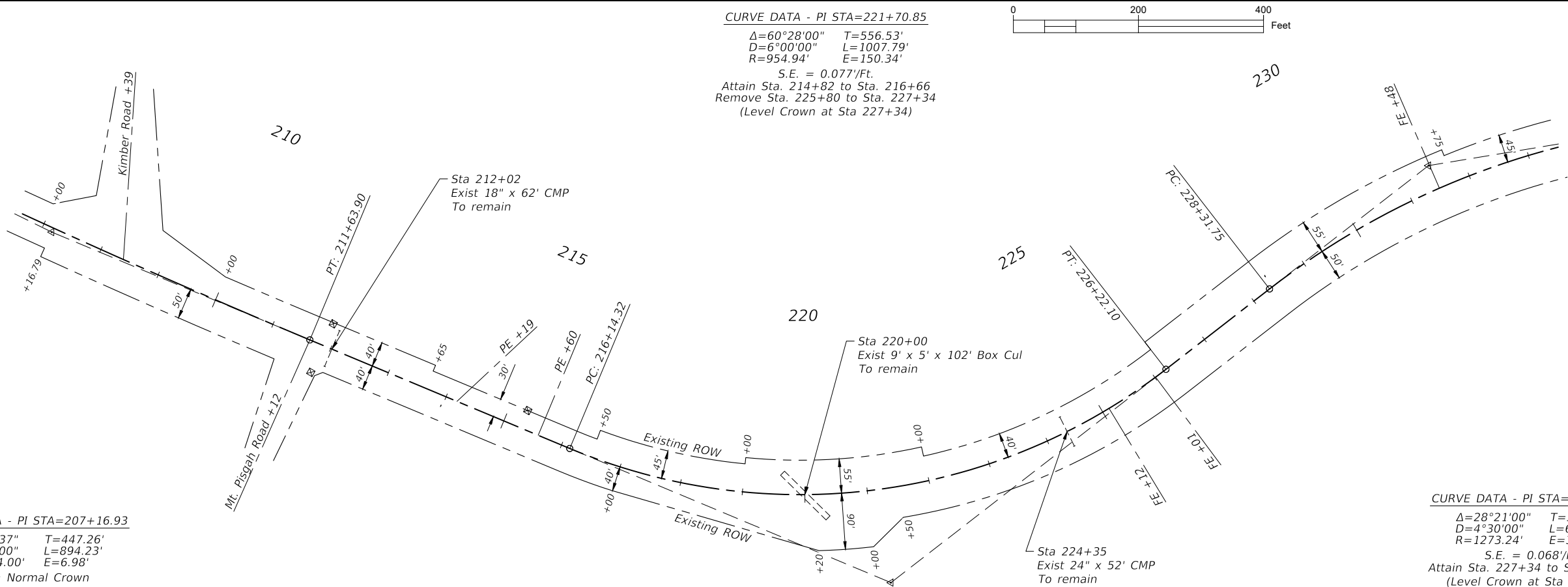
$\Delta=60^{\circ}28'00''$ $T=556.53'$
 $D=6^{\circ}00'00''$ $L=1007.79'$
 $R=954.94'$ $E=150.34'$
 $S.E. = 0.077'/Ft.$
Attain Sta. 214+82 to Sta. 216+66
Remove Sta. 225+80 to Sta. 227+34
(Level Crown at Sta 227+34)

CURVE DATA - PI STA=207+16.93

$\Delta=3^{\circ}34'37''$ $T=447.26'$
 $D=0^{\circ}24'00''$ $L=894.23'$
 $R=14324.00'$ $E=6.98'$
 $S.E. = \text{Normal Crown}$

CURVE DATA - PI STA=231+53.34

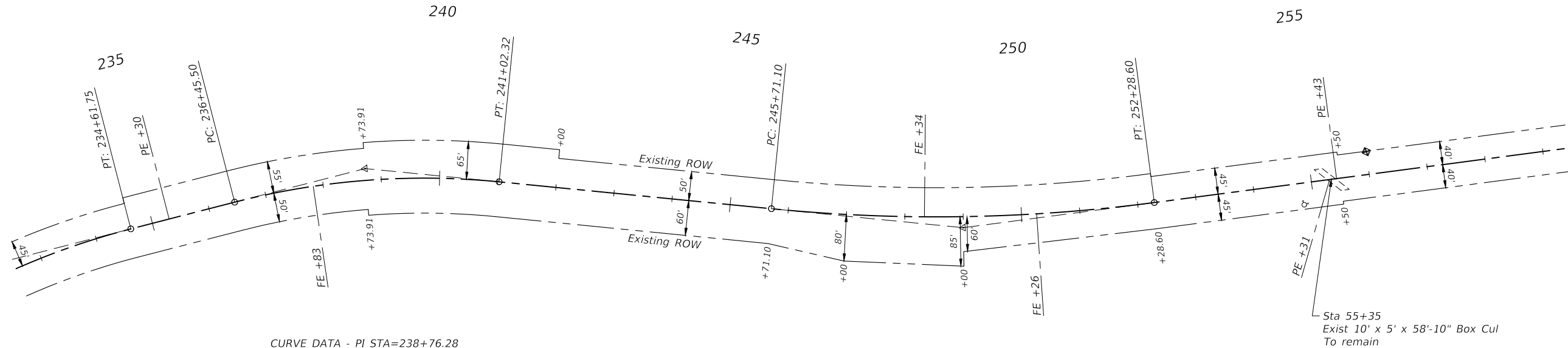
$\Delta=28^{\circ}21'00''$ $T=321.59'$
 $D=4^{\circ}30'00''$ $L=630.00'$
 $R=1273.24'$ $E=39.98'$
 $S.E. = 0.068'/Ft.$
Attain Sta. 227+34 to Sta. 228+68
(Level Crown at Sta 227+34)
Remove Sta. 234+19 to Sta. 235+55
(Full 4.0% SE at Sta 235+55)



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 3	22-00218-00-RS	UNION	14	9
PROJECT NO. AEGB(342)			CONTRACT NO. 99758	

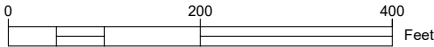
CURVE DATA - PI STA=249+01.30

$\Delta=13^{\circ}09'00''$ $T=330.20'$
 $D=2^{\circ}00'00''$ $L=657.50'$
 $R=2864.79'$ $E=18.97'$
 $S.E. = 0.039'/Ft.$
 Attain Sta. 244+89 to Sta. 245+97
 Remove Sta. 252+03 to Sta. 253+11



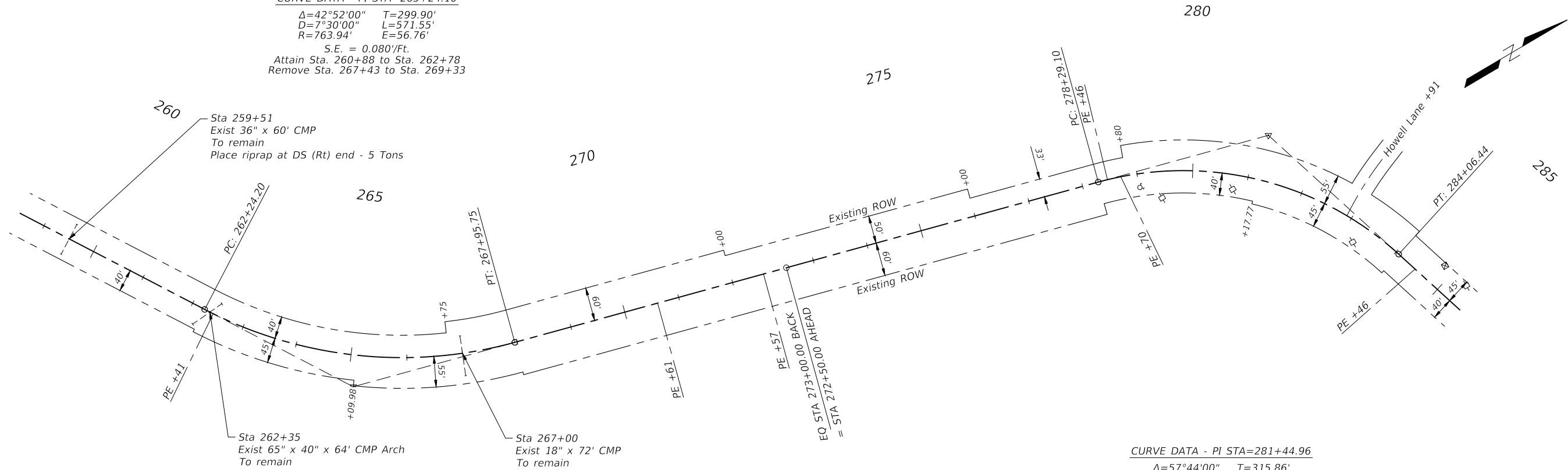
CURVE DATA - PI STA=238+76.28

$\Delta=20^{\circ}06'00''$ $T=230.78'$
 $D=4^{\circ}24'00''$ $L=456.82'$
 $R=1302.18'$ $E=20.29'$
 $S.E. = 0.067'/Ft.$
 Attain Sta. 235+55 to Sta. 236+89
 (Full 4.0% SE at Sta 235+55)
 Remove Sta. 240+58 to Sta. 242+22



CURVE DATA - PI STA=265+24.10

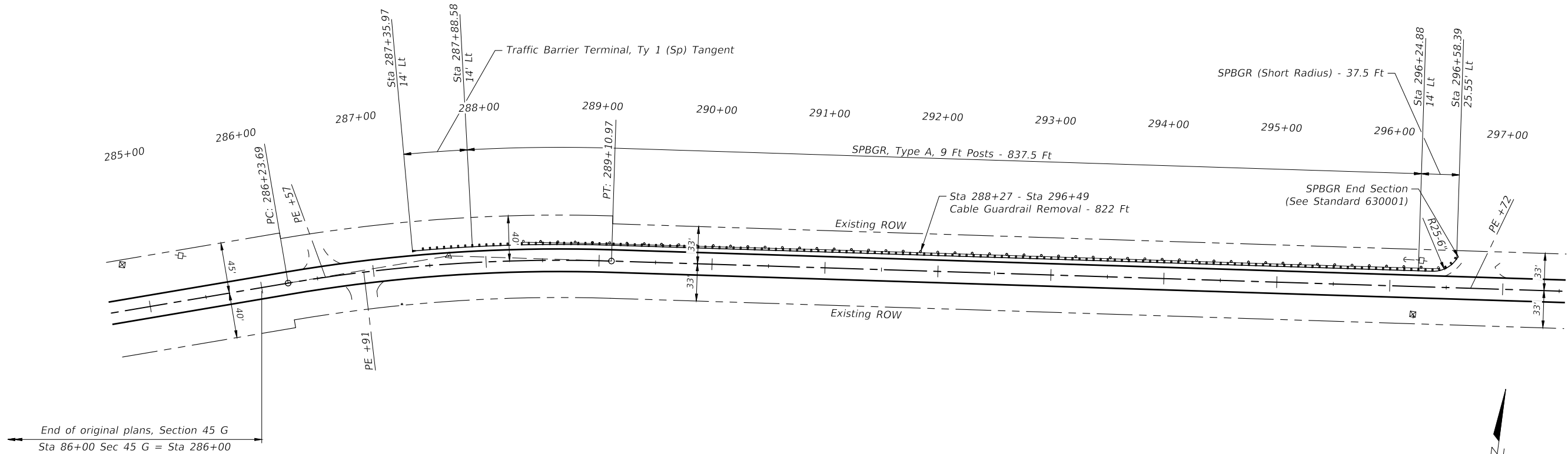
$\Delta=42^{\circ}52'00''$ $T=299.90'$
 $D=7^{\circ}30'00''$ $L=571.55'$
 $R=763.94'$ $E=56.76'$
 $S.E. = 0.080'/Ft.$
 Attain Sta. 260+88 to Sta. 262+78
 Remove Sta. 267+43 to Sta. 269+33



CURVE DATA - PI STA=281+44.96

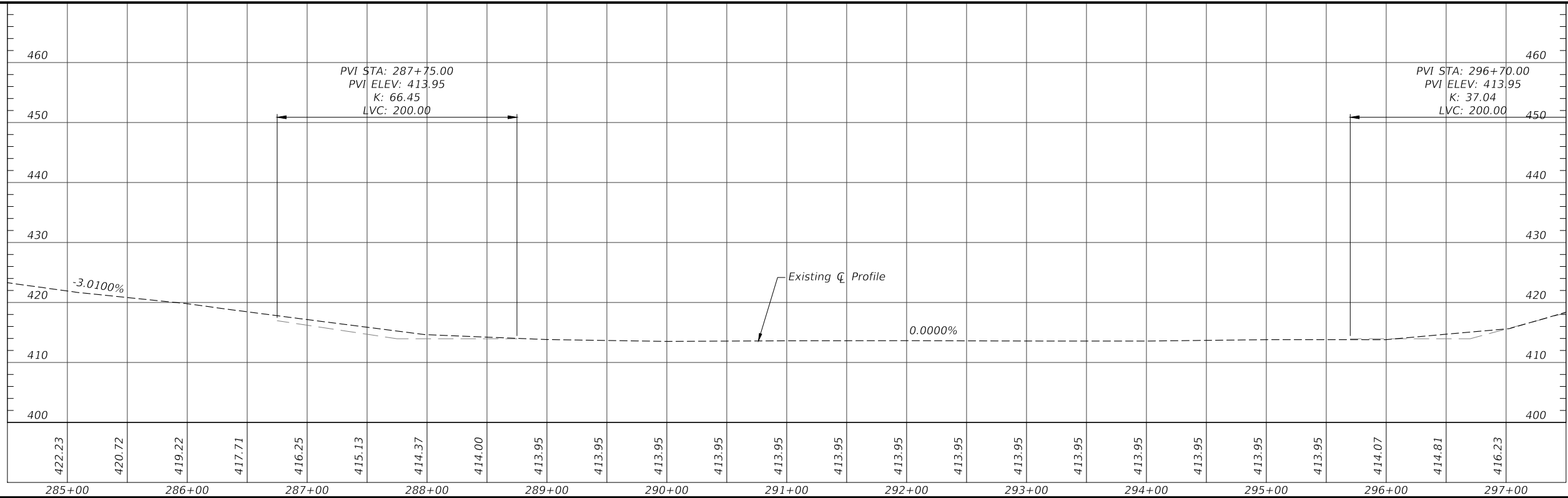
$\Delta=57^{\circ}44'00''$ $T=315.86'$
 $D=10^{\circ}00'00''$ $L=577.34'$
 $R=572.96'$ $E=81.29'$
 $S.E. = 0.080'/Ft.$
 Attain Sta. 277+03 to Sta. 278+79
 Remove Sta. 283+57 to Sta. 285+33

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 3	22-00218-00-RS	UNION	14	10
PROJECT NO. AEGB(342)			CONTRACT NO. 99758	



CURVE DATA - PI STA=287+67.81

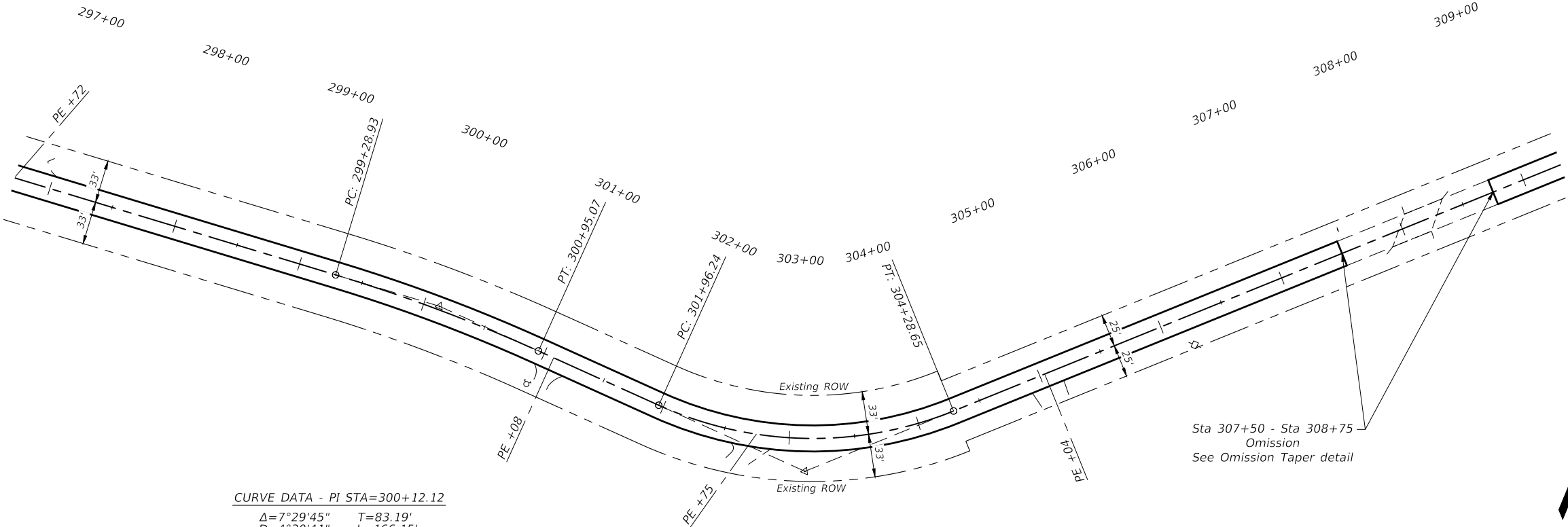
$\Delta = 11^\circ 26' 59''$ $T = 144.12'$
 $D = 3^\circ 59' 08''$ $L = 287.28'$
 $R = 1437.59'$ $E = 7.21'$
 $S.E. = 0.039'/ft.$
Attain Sta. 285+58 to Sta. 286+45
Remove Sta. 288+90 to Sta. 289+77



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 3	22-00218-00-RS	UNION	14	11
PROJECT NO. AEGB(342)			CONTRACT NO. 99758	

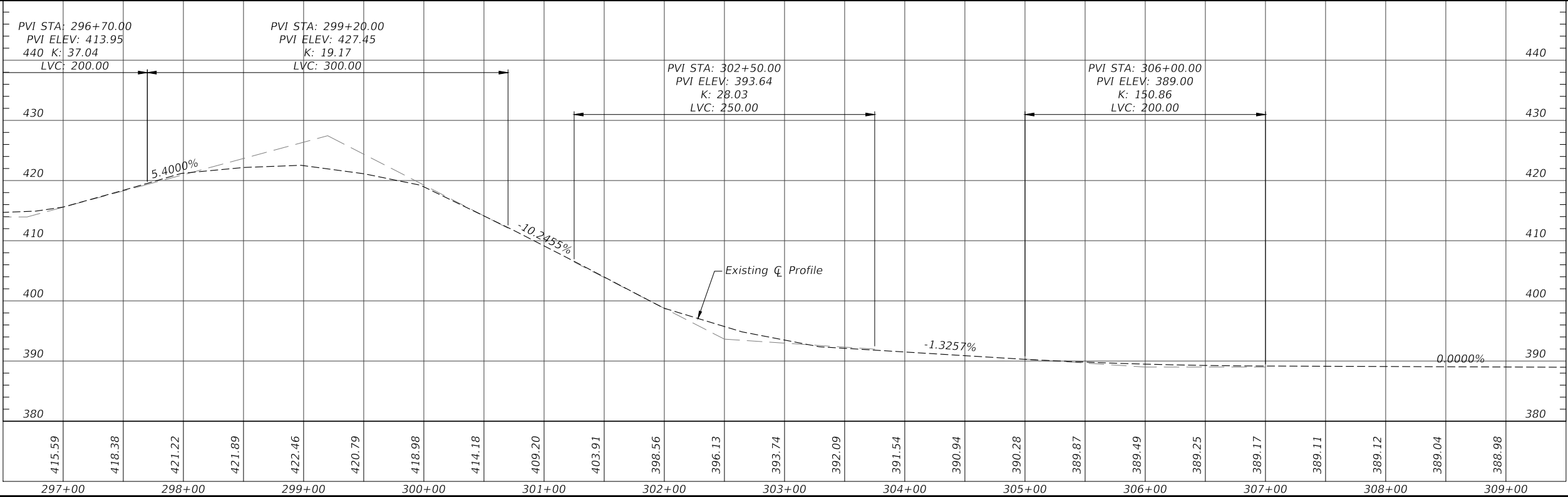
CURVE DATA - PI STA=303+19.24

$\Delta=46^{\circ}23'56"$ $T=123.01'$
 $D=19^{\circ}57'49"$ $L=232.42'$
 $R=287.00'$ $E=25.25'$
 $S.E. = 0.076'/Ft.$
 Attain Sta. 301+24 to Sta. 302+40
 (Level Crown at Sta 301+24)
 Remove Sta. 303+90 to Sta. 305+28

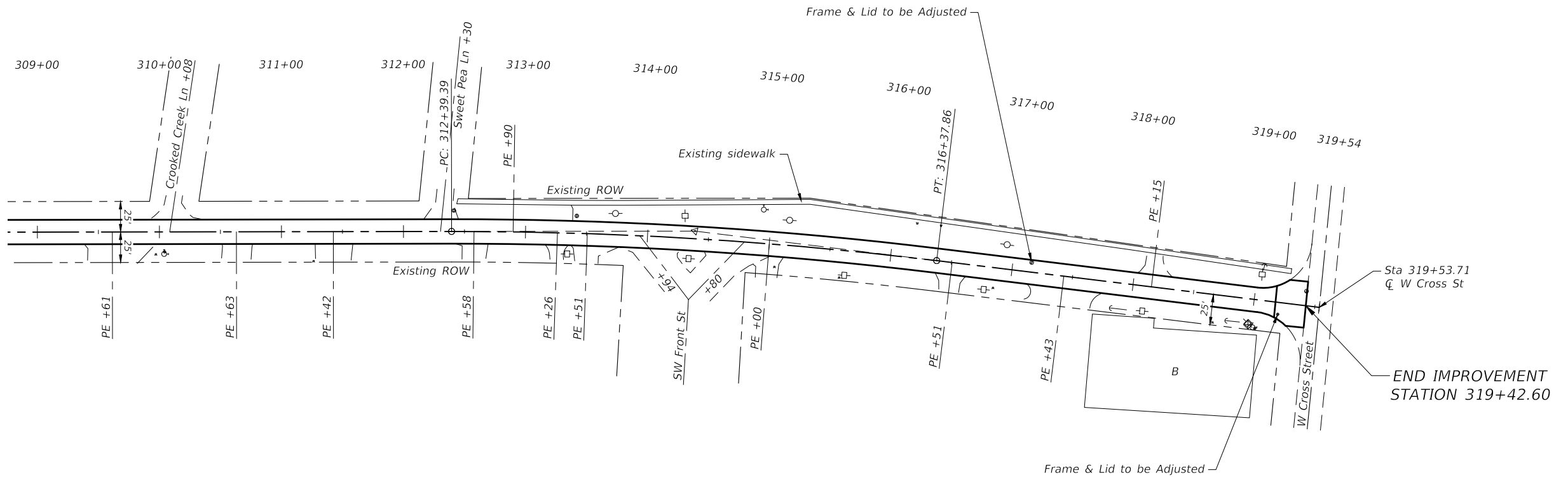


CURVE DATA - PI STA=300+12.12

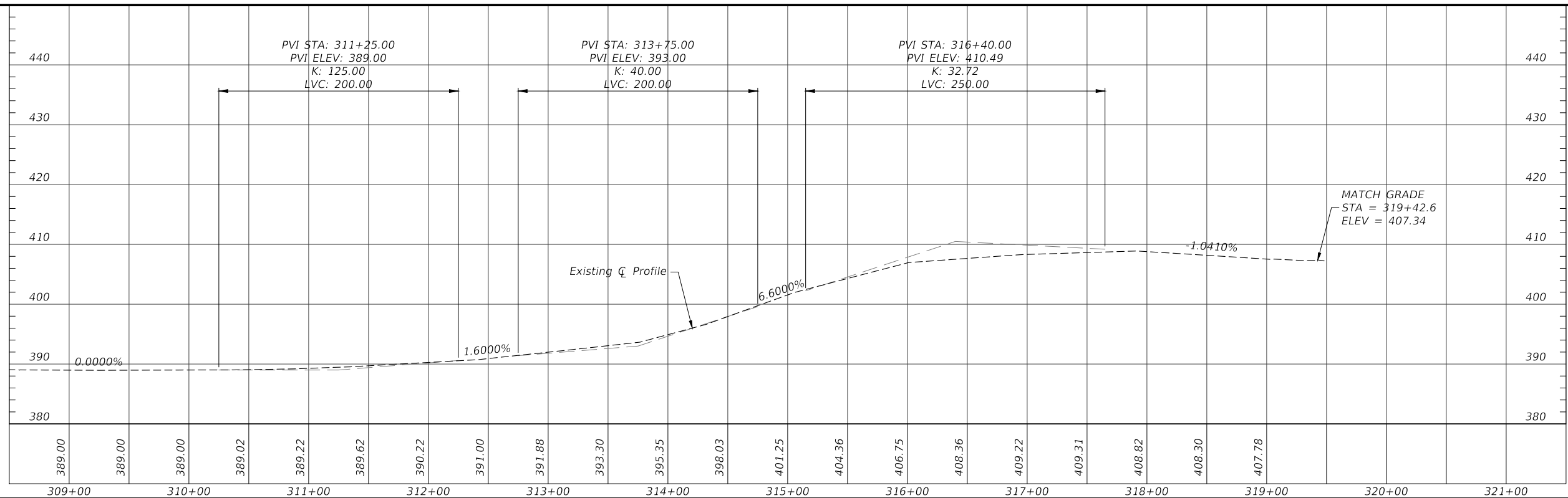
$\Delta=7^{\circ}29'45"$ $T=83.19'$
 $D=4^{\circ}30'41"$ $L=166.15'$
 $R=1270.00'$ $E=2.72'$
 $S.E. = 0.034'/Ft.$
 Attain Sta. 298+72 to Sta. 299+46
 Remove Sta. 300+73 to Sta. 301+24
 (Level Crown at Sta 301+24)



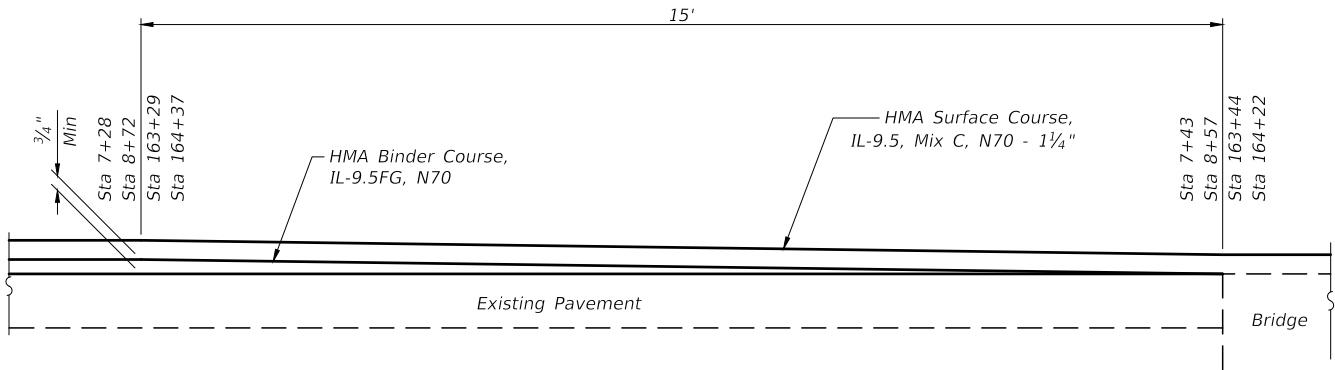
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 3	22-00218-00-RS	UNION	14	12
PROJECT NO. AEGB(342)			CONTRACT NO. 99758	



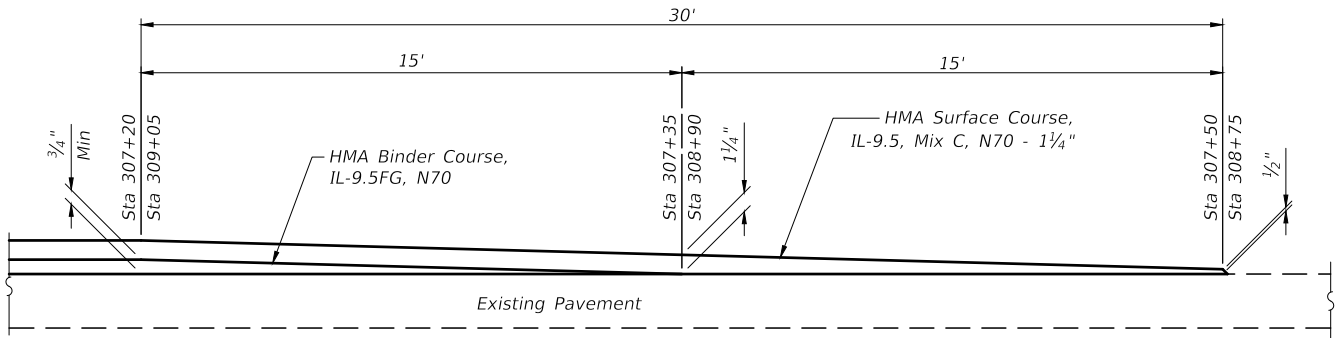
CURVE DATA - PI STA=314+38.88
 $\Delta=7^{\circ}02'47''$ $T=199.48'$
 $D=1^{\circ}46'06''$ $L=398.47'$
 $R=3240.00'$ $E=6.14'$
S.E. = Normal Crown



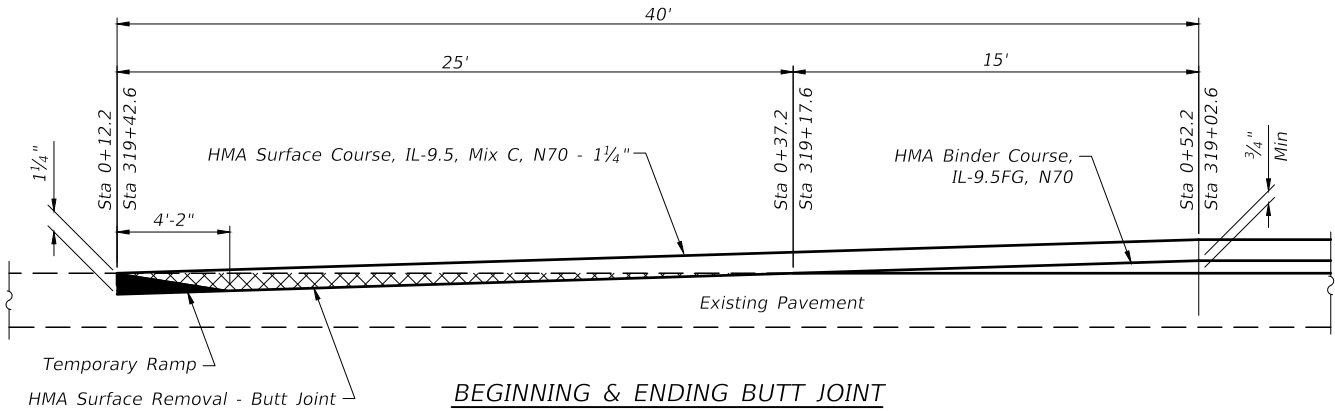
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 3	22-00218-00-RS	UNION	14	13
PROJECT NO. AEGB(342)			CONTRACT NO. 99758	



BRIDGE TAPER



OMISSION TAPER

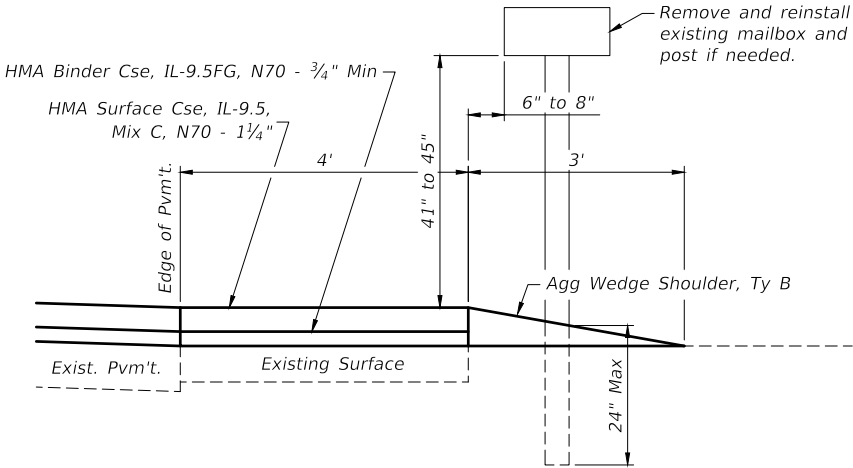


BEGINNING & ENDING BUTT JOINT

MISCELLANEOUS DETAILS

COUNTY HIGHWAY 3 (LAKE ROAD)
SECTION 22-00218-00-RS
PROJECT NO. AEGB(342)
UNION COUNTY

SCHEDULE OF MAILBOX TURNOUTS		
Location	HMA Binder Tons	HMA Surface Tons
14+18 Rt	0.5	0.7
20+42 Rt	1.9	1.1
24+46 Rt	6.1	1.1
29+42 Rt	0.7	1.1
32+97 Rt	0.5	0.7
35+88 Rt	1.8	0.7
43+68 Rt	0.7	1.1
50+63 Rt	1.5	1.1
52+37 Rt	3.8	1.1
65+39 Rt	1.2	0.7
67+89 Rt	0.5	0.7
68+41 Rt	0.5	0.7
82+08 Rt	0.5	0.7
90+92 Rt	4.9	1.1
95+28 Rt	0.5	0.7
106+23 Rt	0.5	0.7
121+56 Rt	2.9	1.1
136+72 Rt	0.5	0.7
138+85 Rt	2.2	0.7
152+18 Rt	2.6	0.7
173+75 Rt	0.7	1.1
215+70 Rt	4.3	1.1
256+19 Rt	2.6	1.1
270+90 Rt	3.7	0.7
278+97 Rt	0.5	0.7
284+56 Rt	4.3	0.7
286+76 Rt	0.5	0.7
302+56 Rt	4.1	0.7
305+18 Rt	0.6	0.7
311+20 Rt	0.9	0.7
315+56 Rt	4.2	1.1
316+83 Rt	4.7	1.1
Totals	65.4	27.6



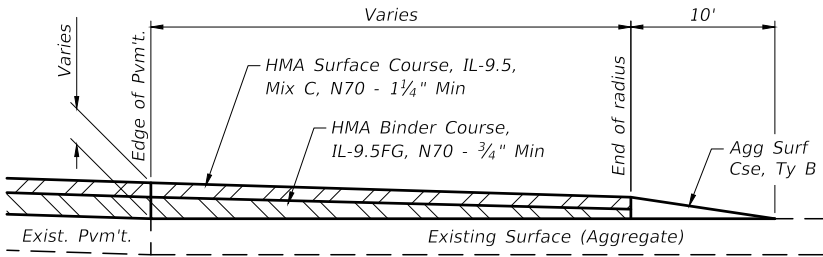
TYPICAL MAILBOX TURNOUT
(See Standard BLR 24 for more details)

NOTES

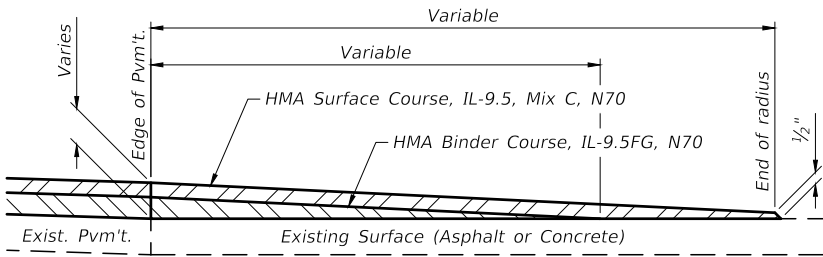
Where asphalt is to be placed, the existing surface shall receive prime or tack coat. (Rates specified elsewhere). HMA type and thickness shall match the mainline resurfacing.

The actual number and locations of entrances and side roads shall be determined in the field by the Engineer.

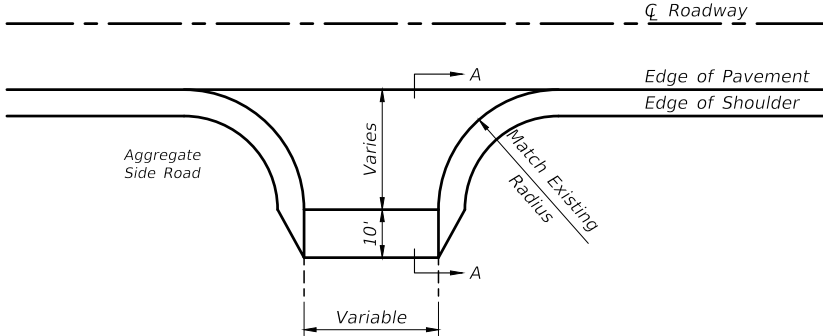
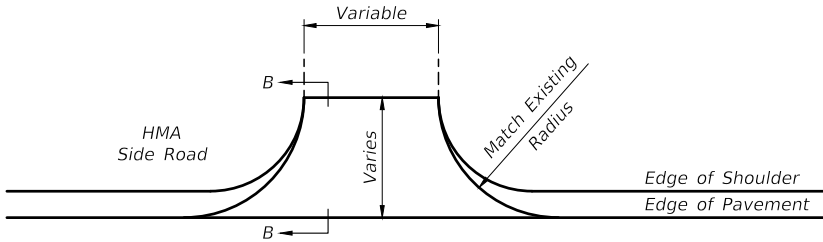
SCHEDULE OF SIDE ROADS					
Location		Width	Agg Surface Tons	HMA Binder Tons	HMA Surface Tons
9+23	Lt	20'	1.3	5.6	8.8
208+39	Lt	22'		45.8	14.4
211+62	Rt	20'		33.5	13.3
282+91	Lt	18'		25.4	6.4
310+08	Lt	16'		2.4	3.0
312+30	Lt	16'		2.6	2.7
313+94	Rt	20'		9.1	4.4
314+80	Rt	20'		18.8	4.8
Totals			1.3	143.2	57.8



SECTION A-A SIDE ROAD - AGGREGATE



SECTION B-B SIDE ROAD - HMA



PLAN

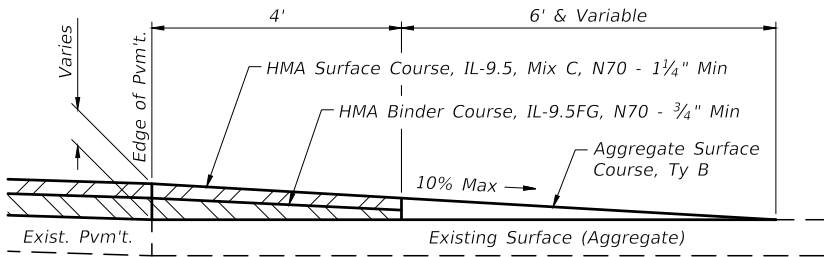
TYPICAL SIDE ROAD DETAILS

NOTES

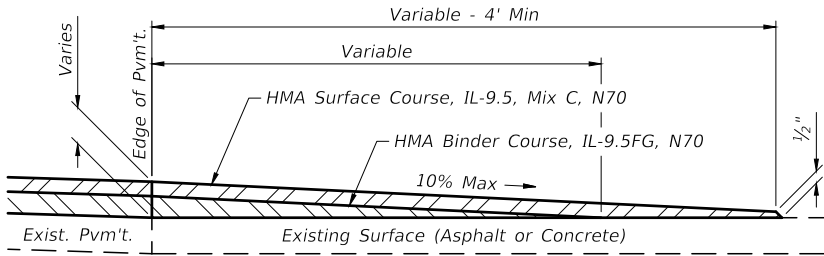
Where asphalt is to be placed, the existing surface shall receive prime or tack coat. (Rates specified elsewhere). HMA type and thickness shall match the mainline resurfacing.

The actual number and locations of entrances and side roads shall be determined in the field by the Engineer.

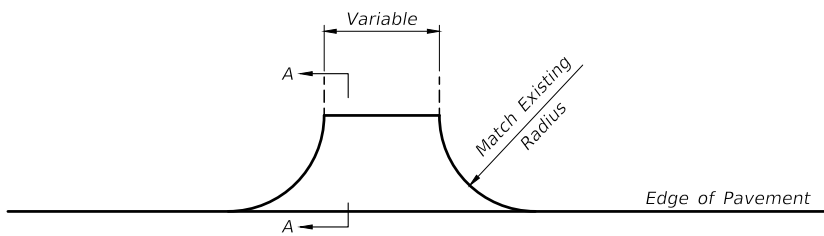
SCHEDULE OF PRIVATE ENTRANCES					
Location		Width	Agg Surface Tons	HMA Binder Tons	HMA Surface Tons
1+01	Lt	12'	1.3	0.8	1.2
13+80	Rt	18'	1.8	0.9	1.6
20+84	Lt	12'	1.2	0.6	1.2
24+46	Lt	12'	0.8	0.4	0.7
29+59	Lt	12'	1.9	2.7	1.1
30+95	Lt	12'	0.8	0.4	0.7
32+63	Rt	12'	1.4	0.7	1.4
35+68	Rt	14'	1.4	1.5	0.9
43+73	Lt	12'	3.1	5.6	1.2
50+66	Lt	16'	1.6	1.5	1.1
52+32	Lt	16'	1.3	0.6	1.1
53+98	Rt	16'	3.4	5.3	1.5
65+60	Rt	12'	1.1	1.2	0.7
68+13	Rt	14'	1.2	0.6	1.1
68+23	Lt	28'	4.5	6.2	1.4
75+34	Lt	22'	1.7	0.8	1.4
81+80	Rt	12'	1.0	0.5	1.0
90+42	Lt	12'	0.8	0.4	0.7
90+50	Rt	32'	5.7	7.9	1.6
95+00	Rt	16'	1.5	0.7	1.3
105+68	Lt	12'	3.3	6.0	1.4
106+00	Rt	16'	1.4	0.7	1.2
106+78	Rt	18'	1.3	0.6	1.1
117+92	Rt	12'	0.9	0.4	0.8
121+54	Lt	14'	2.7	4.6	1.0
137+16	Rt	62'	4.4	1.6	3.0
137+78	Lt	12'	1.1	1.2	0.7
138+70	Rt	16'	2.7	3.8	1.4
152+53	Rt	20'	1.8	1.5	1.1
170+75	Lt	12'	0.9	0.5	0.9
172+40	Rt	12'	1.2	1.3	0.7
174+16	Rt	14'	1.1	0.6	0.9
174+35	Lt	12'	1.6	2.5	0.7
214+19	Lt	12'	1.3	1.7	0.7
215+60	Lt	14'	1.7	2.2	0.9
235+30	Lt	14'	3.5	6.0	1.4
255+31	Rt	16'	2.3	2.4	1.6
255+43	Lt	12'	1.7	2.6	0.7
262+41	Rt	24'	5.4	8.8	1.4
270+61	Rt	18'		4.8	1.2
272+57	Rt	26'	4.8	7.1	1.4
278+46	Lt	24'	5.4	8.7	1.3
278+70	Rt	14'		0.9	1.3
284+46	Rt	22'	3.6	5.1	1.1
286+57	Lt	14'	3.8	7.2	1.0
286+91	Rt	22'		0.7	1.0
296+72	Lt	26'	3.7	4.7	1.4
301+08	Rt	12'	2.3	4.3	0.7
302+75	Rt	16'	2.6	4.1	0.9
305+04	Rt	22'	2.0	1.9	1.1
309+61	Rt	40'	2.8	1.3	1.9
310+63	Rt	24'	2.1	1.7	1.1
311+42	Rt	28'		2.8	1.2
312+58	Rt	20'	1.5	1.0	1.0
312+90	Lt	94'	7.9	5.6	3.2
313+26	Rt	12'	1.0	0.9	0.7
313+51	Rt	18'	1.5	1.2	0.9
315+00	Rt	18'	2.6	3.8	0.9
316+51	Rt	16'		0.6	0.9
317+43	Rt	48'	6.5	7.5	1.9
318+15	Lt	14'	0.9	0.4	0.8
Totals			132.8	164.6	71.4



SECTION A-A PRIVATE ENTRANCE - AGGREGATE



SECTION A-A PRIVATE ENTRANCE - HMA



PLAN

TYPICAL ENTRANCE DETAILS

ENTRANCE & SIDE ROAD DETAILS

COUNTY HIGHWAY 3 (LAKE ROAD)
SECTION 22-00218-00-RS
PROJECT NO. AEGB(342)
UNION COUNTY