

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PLANS FOR PROPOSED  
SURFACE TRANSPORTATION PROGRAM-RURAL**

**SECTION 13-00203-00-RS  
F.A.S. 1511 / C.H. 20 / WEST NEWELL ROAD  
VERMILION COUNTY  
PROJECT RS-0183(323)  
C-95-311-16**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1511	13-00203-00-RS	VERMILION	19	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 91545	

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.-4.	TYPICAL CROSS SECTIONS
5.	SCHEDULE OF QUANTITIES
6.	ALIGNMENT AND BENCHMARKS
7.-15.	PLAN AND PROFILE SHEETS
16.	EXISTING INTERSECTION DETAIL
17.-18.	PAVEMENT PATCHING DETAILS
19.	ENTRANCE DETAILS

HIGHWAY STANDARDS:

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
442201-03	CLASS C AND D PATCHES
601101-02	CONCRETE HEADWALLS FOR PIPE UNDERDRAINS
630001-11	STEEL PLATE BEAM GUARDRAIL
701011-04	OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS - DAY ONLY FOR SPEEDS > 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS, DAY ONLY
701901-06	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS

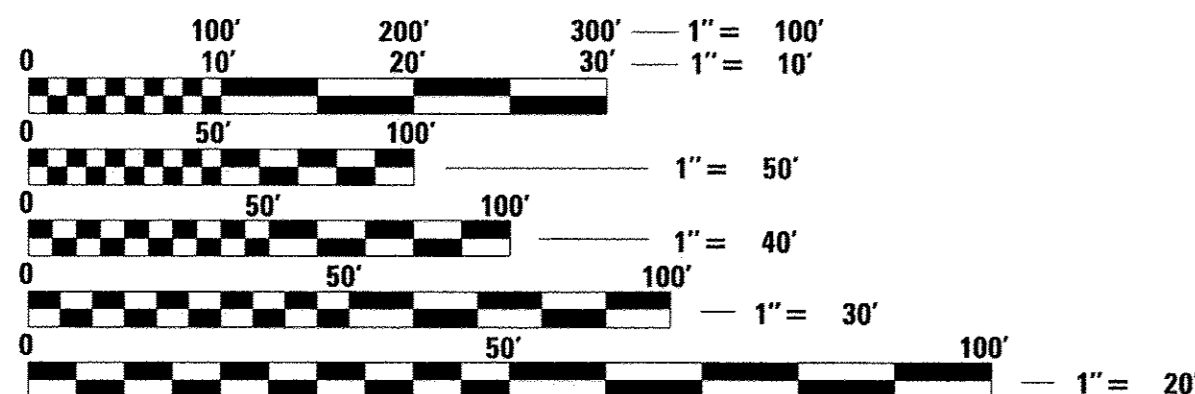
**UTILITIES**

AT&T  
201 S. NEIL STREET  
CHAMPAIGN, IL 61820

COMCAST  
806 1/2 E. MAIN STREET  
DANVILLE, IL 61832

AMEREN IP  
1155 E. VOORHEES ST.  
DANVILLE, IL 61832

AQUA ILLINOIS  
322 N. GILBERT  
DANVILLE, IL 61832

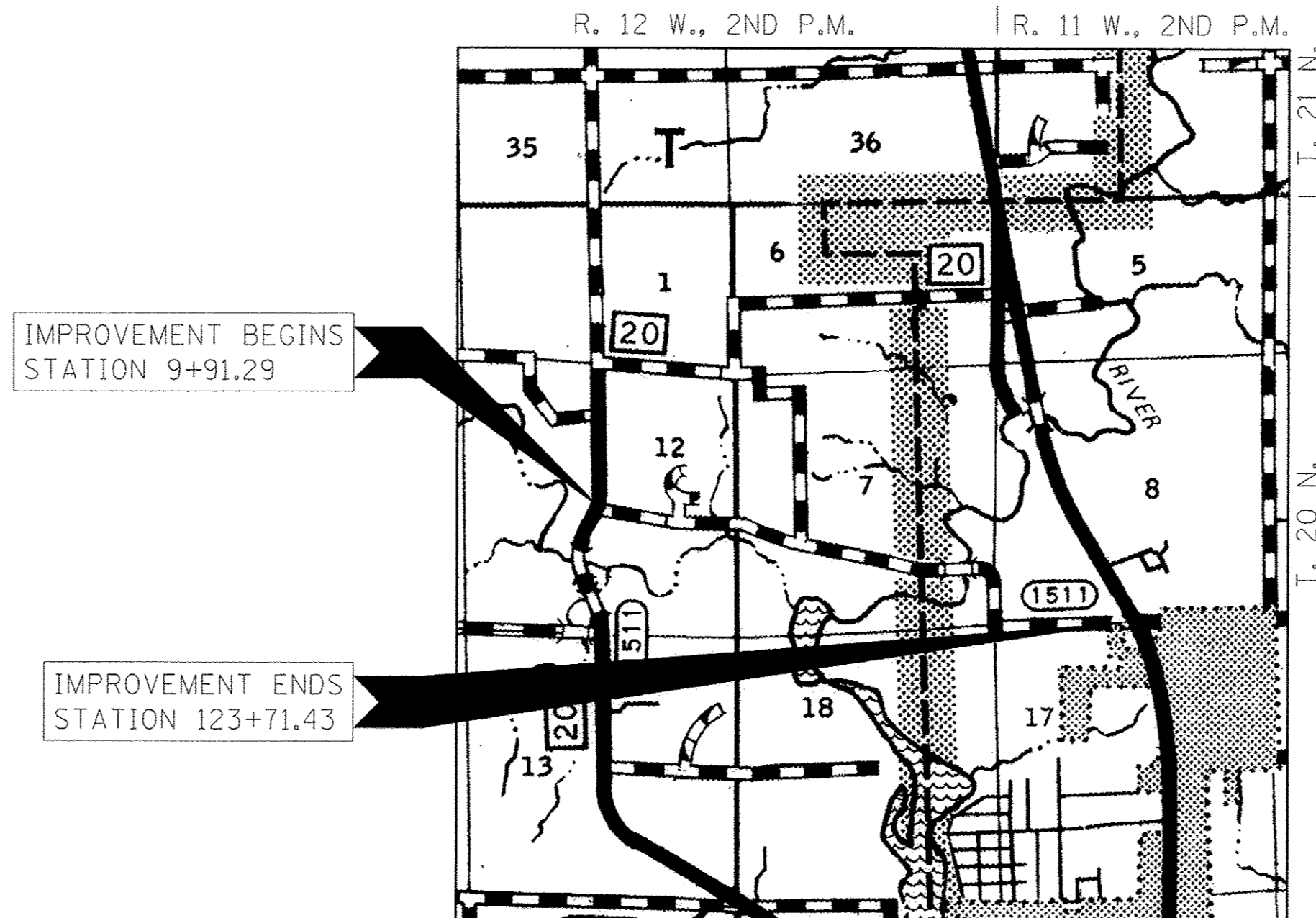


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.



LOCATION OF SECTION INDICATED THUS: - [black box] -

FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR RURAL  
DESIGN SPEED: 50 MPH  
DESIGN TRAFFIC: ADT 1274 (2013)



LOCATION MAP

APPROXIMATE SCALE: 0 1/2 MILE  
NET LENGTH OF SECTION = 11,380.14 FEET = 2.155 MILES : WEST NEWELL ROAD  
NET LENGTH OF SECTION = 163.80 FEET = 0.031 MILES : DENMARK ROAD  
TOTAL LENGTH OF PROJECT = 11,543.94 FEET = 2.186 MILES



**ILLINOIS DEPARTMENT OF TRANSPORTATION**

APPROVED January 31, 2017  
*Douglas R. Steake*  
COUNTY ENGINEER

PASSED FEBRUARY 27, 2017  
*[Signature]*  
DISTRICT FIVE ENGINEER OF LOCAL ROADS & STREETS  
Releasing For Bid Based on Limited Review  
2/27 2017  
*Kenneth A. Dunnett*  
REGION THREE ENGINEER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



HAMPTON, LENZINI AND RENWICK, INC.  
CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS  
3085 STEVENSON DRIVE, SUITE 201  
SPRINGFIELD, ILLINOIS 62703  
217.546.3400 www.hlrengineering.com  
184.000959  
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

DATE: 01/26/2017  
EXPIRES: 11/30/2017

PROJECT NUMBER: 14.0023 DATE: 01/26/17

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION CODE 0004	
		UNIT	TOTAL
20200100	EARTH EXCAVATION	CU YD	479
28100101	STONE RIPRAP, CLASS A1	SQ YD	498
35101400	AGGREGATE BASE COURSE, TYPE B	TON	378
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	62
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	33,996
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	745
40600990	TEMPORARY RAMP	SQ YD	313
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	3,814
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	3,090
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	163
44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	831
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1,145
48203100	HOT-MIX ASPHALT SHOULDERS	TON	2,179
56109210	WATER VALVES TO BE ADJUSTED	EACH	1
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	10
60108104	PIPE UNDERDRAINS, TYPE 1, 4"	FOOT	300
60255500	MANHOLES TO BE ADJUSTED	EACH	1
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	263
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
63200310	GUARDRAIL REMOVAL	FOOT	363
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	21,214
67100100	MOBILIZATION	LSUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	3,406
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1,134
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	40,158
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	27
78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	50
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	40,158
78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	27
LR400005	CIR-FDR EMULSIFIED ASPHALT	GALLON	71,522
LR400860	FULL-DEPTH RECLAMATION, 6.0"	SQ YD	39,734
LR403300	SURFACE PROFILE MILLING	SQ YD	39,734

^ SEE SPECIAL PROVISIONS

\* SPECIALTY ITEMS

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION CODE 0004	
		UNIT	TOTAL
Z0013798	CONSTRUCTION LAYOUT	LSUM	1
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	11,066
X6330210	VERTICAL ADJUSTMENT OF TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FRUGENT)	EACH	6
X6330900	VERTICAL ADJUSTMENT OF GUARDRAIL	FOOT	725
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1
XX005569	MAILBOX REMOVAL AND REINSTALLATION	EACH	7

^ SEE SPECIAL PROVISIONS

### GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- THE ROAD SHALL BE OPEN TO TRAFFIC AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE ACCESS TO ADJACENT PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.
- THE ELEVATIONS SHOWN ON THE PLANS ARE AN ASSUMED DATUM AND ARE NOT U.S.G.S. DATUM.
- THE LOCATION OF EXISTING GAS MAINS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATIONS AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITIES. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT OR PROTECTION IS NECESSARY.
- ALL EXCAVATED MATERIAL SHALL BE DISPOSED AT AN OFF SITE LOCATION APPROVED BY THE ENGINEER.
- WEIGHT LIMIT DESIGNATED OF PNEUMATIC TIRE ROLLER IN LR400-4 SHT 4 OF 8, NOTE 1 SHALL NOT APPLY
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

STONE RIPRAP CLASS A1	1.8 TON/CU.YD.
AGGREGATE SURFACE AND BASE COURSES	2.05 TON/CU.YD.
HOT-MIX ASPHALT	112 LBS/SQ.YD./INCH THICKNESS
AGGREGATE WEDGE SHOULDER, TYPE B	2.05 TON/CU.YD.
RAP	1.6 TON/CU.YD.

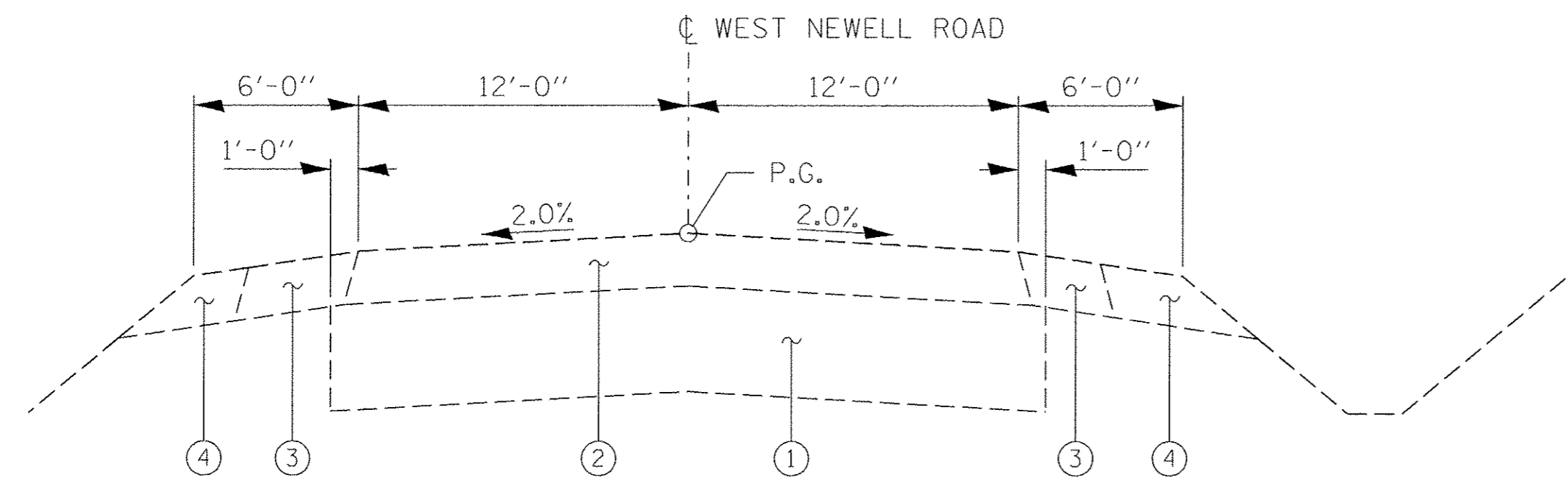
### ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE	HOT-MIX ASPHALT BINDER COURSE	HMA SHOULDERS (TOP LIFT)	HMA SHOULDERS (BOTTOM LIFTS)	CLASS D PATCHES	INCIDENTAL HMA SURFACING
PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4% @ Ndes 50	4% @ Ndes 50	4% @ Ndes 50	4% @ Ndes 50	4% @ Ndes 50	4% @ Ndes 50
MIXTURE COMPOSITION: (MIXTURE GRADATION):	IL 9.5	IL 19.0	IL 9.5	IL 19.0	IL 19.0	IL 9.5
FRICITION AGGREGATE:	MIXTURE C	NONE	MIXTURE C	NONE	NONE	MIXTURE C
MIXTURE WEIGHTS:	112 LBS. / SQ. YD. / INCH	112 LBS. / SQ. YD. / INCH	112 LBS. / SQ. YD. / INCH	112 LBS. / SQ. YD. / INCH	112 LBS. / SQ. YD. / INCH	112 LBS. / SQ. YD. / INCH
QUALITY CONTROL PROGRAM:	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA

### BITUMINOUS MATERIALS RATES

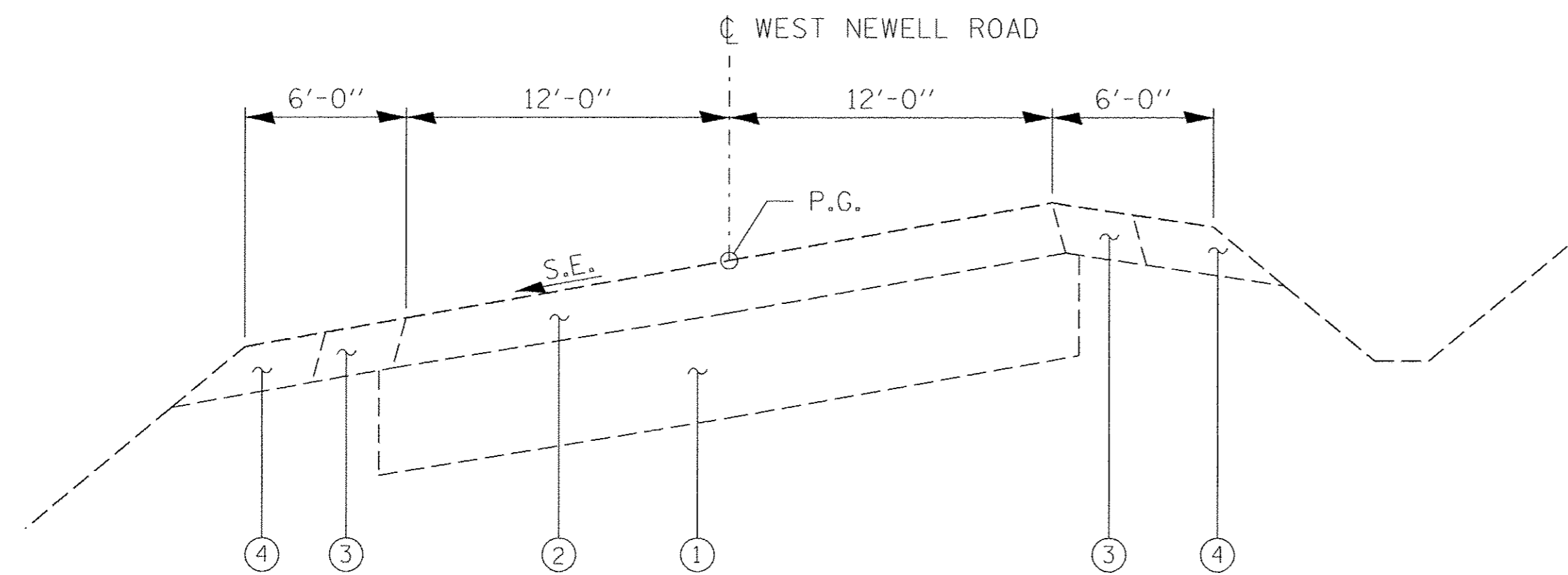
SURFACE TYPE	RESIDUAL RATE
MILLED HMA OR PCC (TACK COAT)	0.05 LB/SQ FT
EXISTING PAVEMENT (TACK COAT)	0.05 LB/SQ FT
ON FULL DEPTH RECLAMATION (TACK COAT)	0.05 LB/SQ FT
BETWEEN LIFTS (TACK COAT)	0.025 LB/SQ FT





**EXISTING TYPICAL CROSS SECTION**

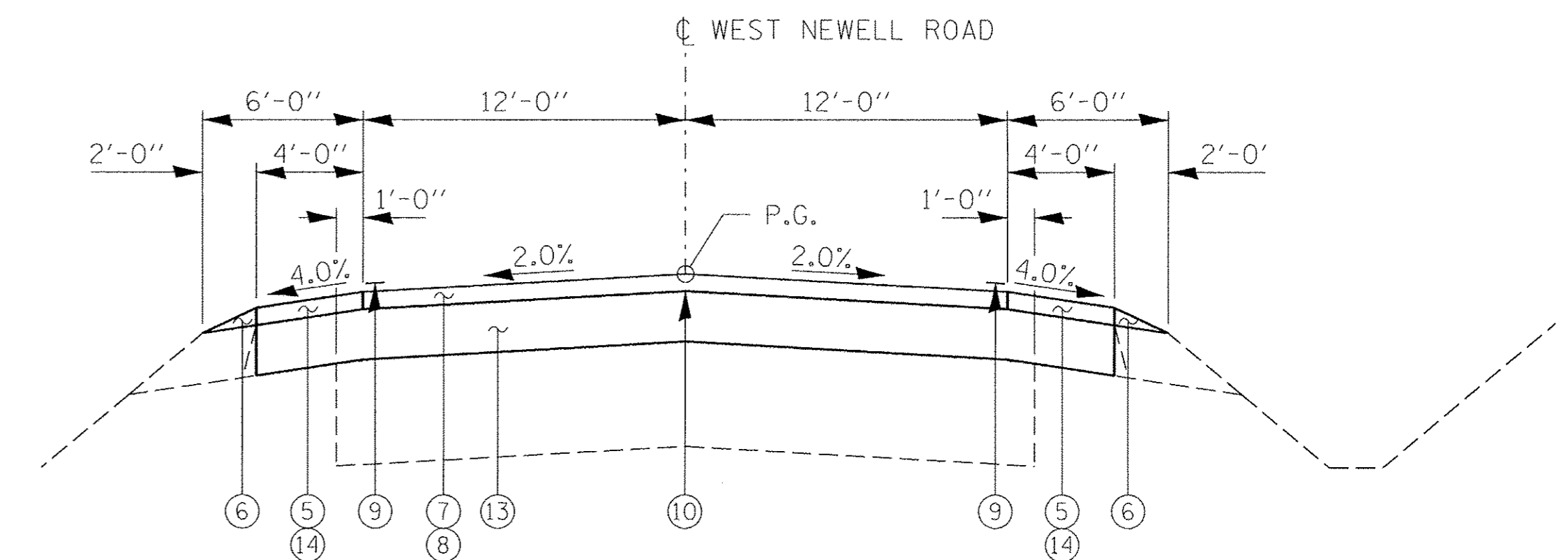
STA 16+16.91 TO STA 23+47.95  
 STA 34+42.46 TO STA 34+83.40  
 STA 48+38.70 TO STA 72+84.94  
 STA 81+00.09 TO STA 88+10.88  
 STA 85+65.20 TO STA 85+96.52  
 STA 95+10.97 TO STA 95+96.61  
 STA 105+68.31 TO STA 123+71.43



**EXISTING TYPICAL CROSS SECTION  
SUPERELEVATED SECTIONS**

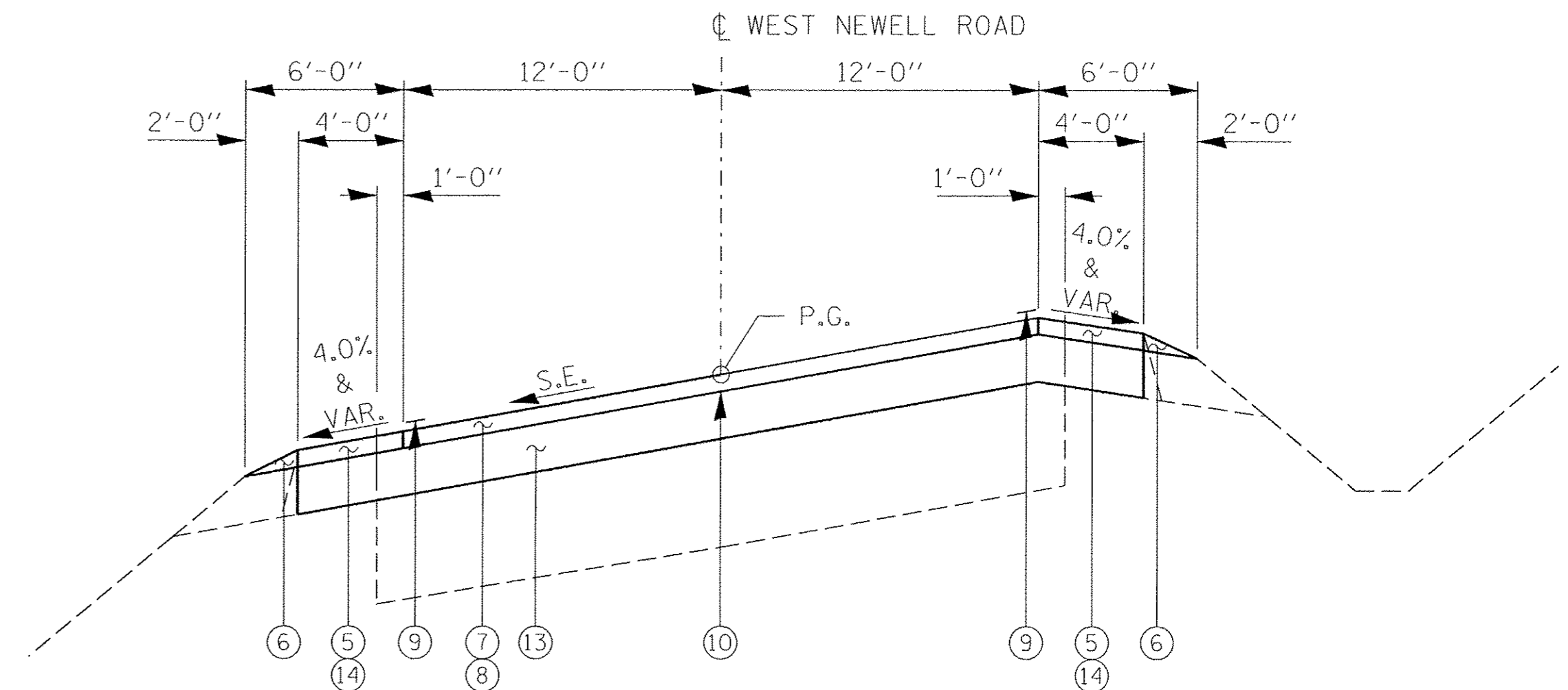
STA 9+91.29 TO STA 16+16.91  
 STA 23+47.95 TO STA 34+42.46  
 STA 34+83.40 TO STA 48+38.70  
 STA 72+84.94 TO STA 81+00.09  
 STA 85+96.52 TO STA 95+10.97  
 STA 95+96.61 TO STA 105+68.31

- LEGEND**
- ① EXISTING LIME MODIFIED BASE (12")
  - ② EXISTING BITUMINOUS PAVEMENT (6")
  - ③ EXISTING BITUMINOUS SHOULDERS (6")
  - ④ EXISTING AGGREGATE SHOULDERS (6")
  - ⑤ HMA SHOULDERS (4" THICKNESS)
  - ⑥ AGGREGATE WEDGE SHOULDERS, TYPE B
  - ⑦ HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (1 3/4")
  - ⑧ HOT-MIX ASPHALT BINDER COURSE (2 1/4")
  - ⑨ PAINT PAVEMENT MARKING - LINE 4"
  - ⑩ LONGITUDINAL JOINT SEALANT
  - ⑪ HMA SURFACE REMOVAL - BUTT JOINT
  - ⑫ TEMPORARY RAMP
  - ⑬ FULL-DEPTH RECLAMATION (6" THICKNESS)
  - ⑭ SHOULDER RUMBLE STRIPS, 8"



**PROPOSED TYPICAL CROSS SECTION**

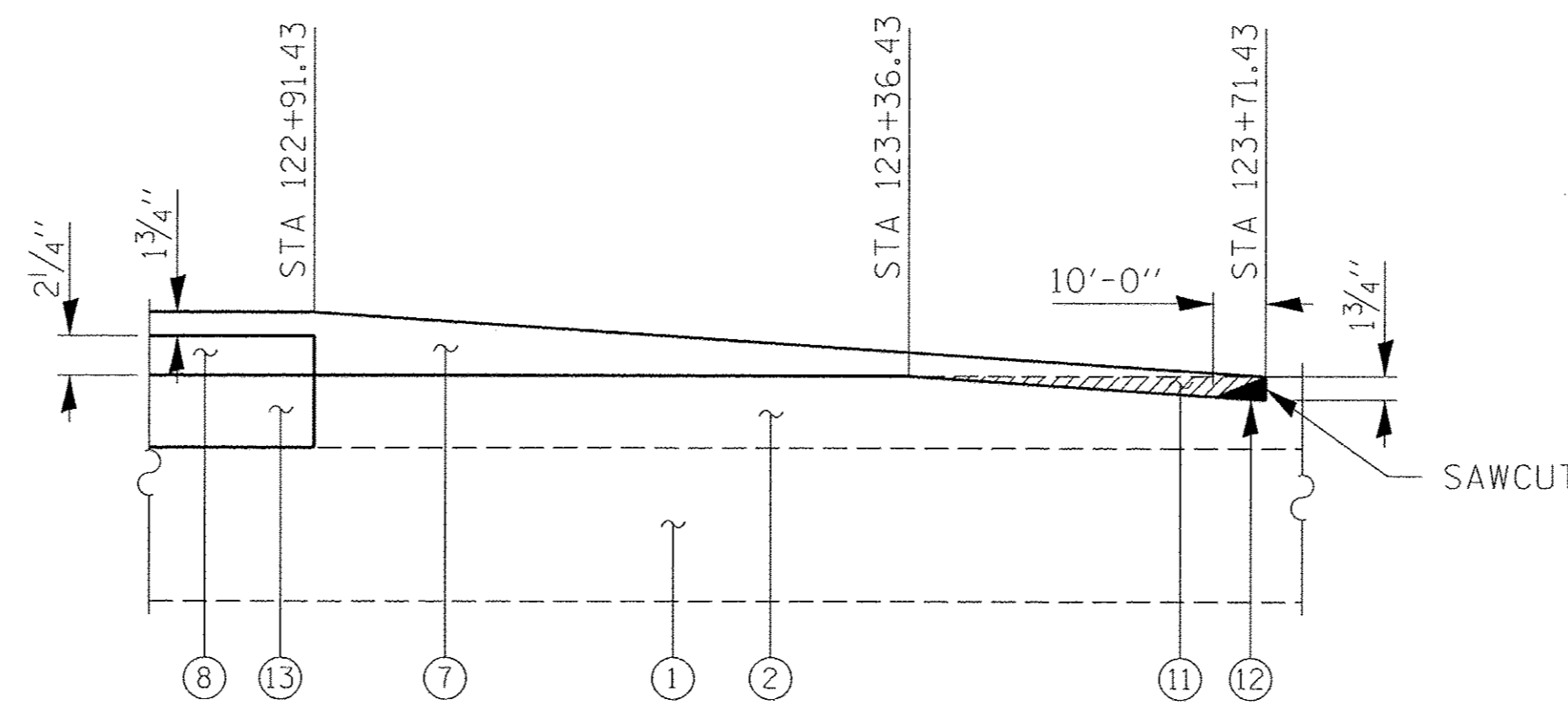
STA 16+16.91 TO STA 23+47.95  
 STA 34+42.46 TO STA 34+83.40  
 STA 48+38.70 TO STA 72+84.94  
 STA 81+00.09 TO STA 83+10.88  
 STA 85+65.12 TO STA 85+96.52  
 STA 95+10.97 TO STA 95+96.61  
 STA 105+68.31 TO STA 123+71.43



**PROPOSED TYPICAL CROSS SECTION  
SUPERELEVATED SECTIONS**

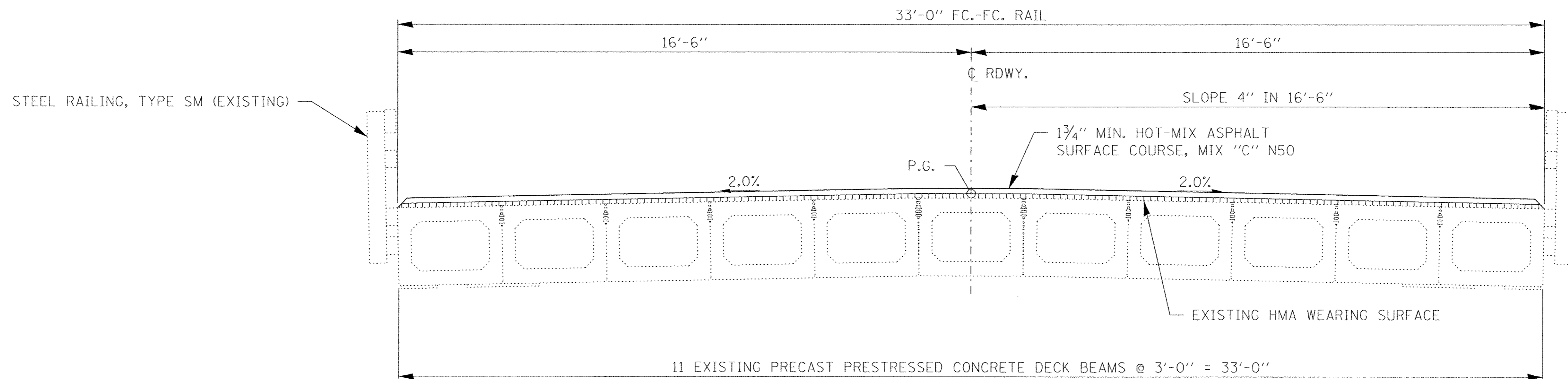
STA 9+91.29 TO STA 16+16.91  
 STA 23+47.95 TO STA 34+42.46  
 STA 34+83.40 TO STA 48+38.70  
 STA 72+84.94 TO STA 81+00.09  
 STA 85+96.52 TO STA 95+10.97  
 STA 95+96.61 TO STA 105+68.31

NOTE: SEE PLAN SHEETS FOR EXISTING SUPERELEVATION RATES & TRANSITIONS.



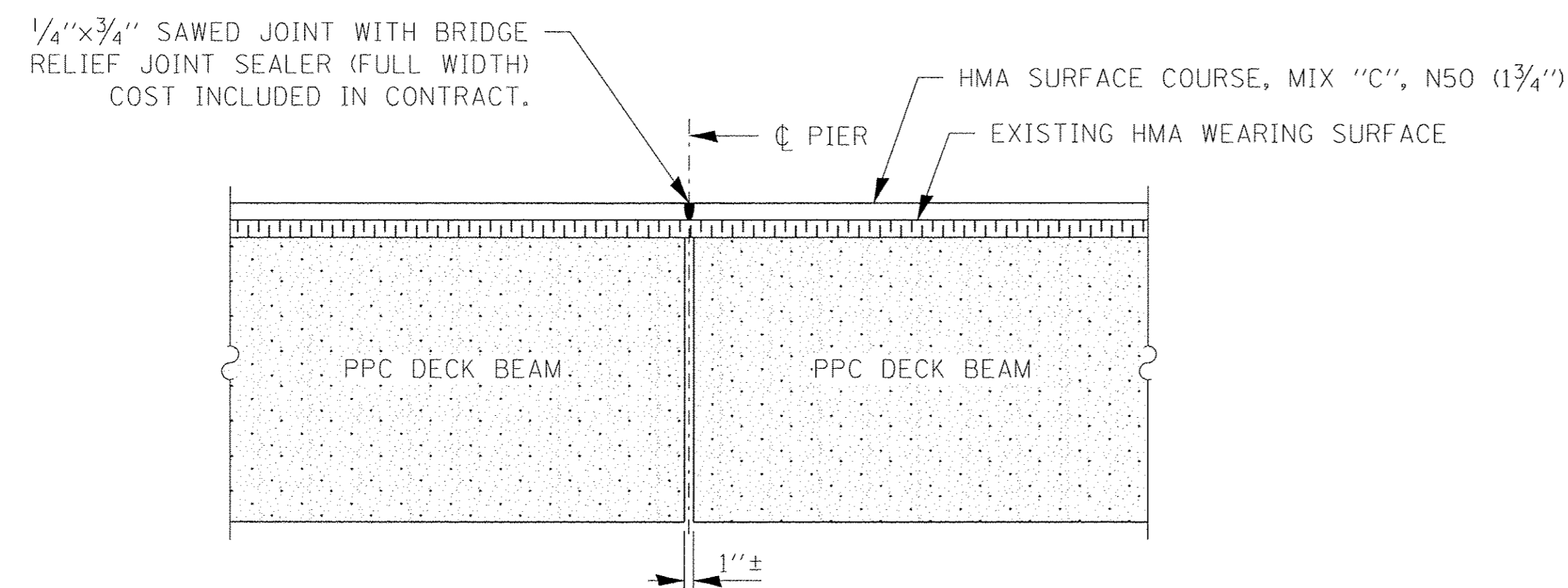
**BUTT JOINT DETAIL**

FILE NAME = 14023-sht-tysections.dgn	USER NAME = #USER#	DESIGNED - S.W.M.	REVISED -	<b>STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT</b>	<b>TYPICAL CROSS SECTIONS</b>		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.00958	PLOT SCALE = #SCALE#	DRAWN - D.A.B.	REVISED -		1511	13-00203-00-RS	VERMILION	19	3		
PLOT DATE = 2/24/2017	DATE - 01/26/17	CHECKED - J.W.F.	REVISED -		WEST NEWELL ROAD / C.H. 20	ILLINOIS	FED. AID PROJECT RS-0183(323)	CONTRACT NO. 91545			
		DATE - 01/26/17	REVISED -		SCALE:	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.			

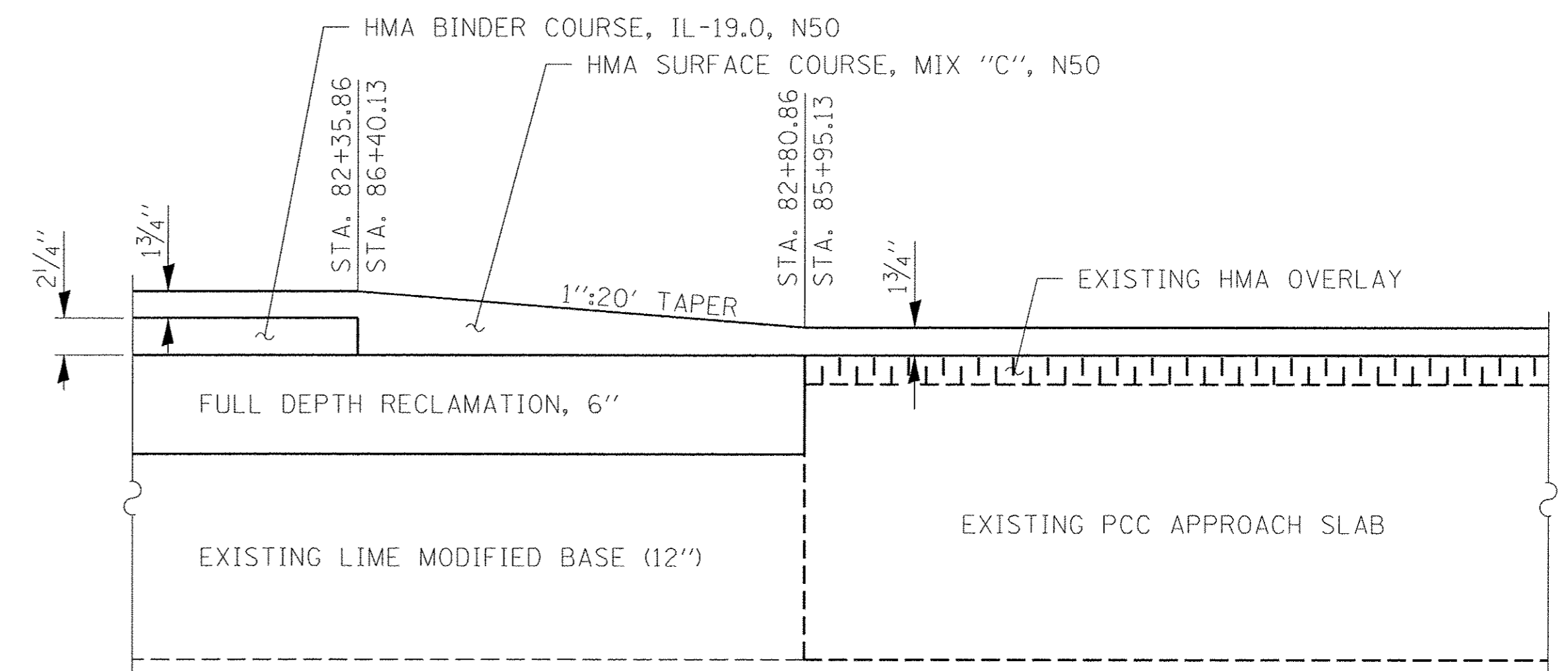


**PROPOSED BRIDGE CROSS SECTION**  
 STA. 83+10.86 TO STA. 85+65.13

NOTE:  
 PCC APPROACH SLABS FROM STA. 82+80.86 TO STA. 83+10.86  
 AND STA. 85+65.13 TO STA. 85+95.13 ALSO TO BE OVERLAYED  
 WITH 1 3/4" HMA SURFACE COURSE. SHOULDER RUMBLE STRIPS  
 SHALL BE CONSTRUCTED.



**DETAIL OF RELIEF JOINT AT BRIDGE PIERS**  
 STA. 83+68.92  
 STA. 84+38  
 STA. 85+07.08



**PAVEMENT TRANSITION DETAIL**  
 AT BRIDGE APPROACH PAVEMENTS

FILE NAME = 140023-sh-typsections.dgn	USER NAME = #USER#	DESIGNED - S.W.M.	REVISED -	<b>STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT</b>	<b>TYPICAL CROSS SECTIONS</b>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009959	PLOT SCALE = #SCALE#	DRAWN - D.A.B.	REVISED -			1511	13-00203-00-RS	VERMILION	19	4
PLOT DATE = 2/24/2017	DATE - 01/26/17	CHECKED - J.W.F.	REVISED -			WEST NEWELL ROAD / C.H. 20				CONTRACT NO. 91545
		SCALE:				SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT R5-0183(323)	

ROADWAY SCHEDULE														
LOCATION	AGGREGATE SURFACE COURSE TYPE B	BITUMINOUS MATERIALS (TACK COAT)	HMA SURF REMOVAL BUTT JOINT	TEMPORARY RAMP (10 locations)	HOT-MIX ASPHALT BINDER COURSE IL-19.0, N50	HOT-MIX ASPHALT SURFACE COURSE MIX "C", N50	INCIDENTAL HOT-MIX ASPHALT SURFACING	SHOULDER RUMBLE STRIPS, 8"	AGGREGATE WEDGE SHOULDER TYPE B	HOT-MIX ASPHALT SHOULDERS (4")	CIR-FDR EMULSIFIED ASPHALT	FULL DEPTH RECLAMATION (6")	SURFACE PROFILE MILLING	LONGITUDINAL JOINT SEALANT
FAS 1511 / CH 20 / WEST NEWELL ROAD	40200800 TON	40600290 POUND	40600982 SQ YD	40600990 SQ YD	40603080 TON	40603310 TON	40800050 TON	64200108 FOOT	48102100 TON	482003100 TON	LR400005 GAL	LR400860 SQ YD	LR403300 SQ YD	Z0033700 FOOT
STA 9+91.29 TO STA 82+80.86		21718	465	133	2547	1955		14,708	745	1427	47354	26307	26307	7290
STA 82+80.86 TO STA 85+95.13		519				113		374						
STA 85+95.13 TO STA 123+71.43		10963	93	133	1267	993		7,553	400	752	24168	13427	13427	3776
DENMARK ROAD ENTRANCES	62	661	187	47		29		163	-1421					
TOTAL	62	33996	745	313	3814	3090	163	21214	1145	2179	71522	39734	39734	11066

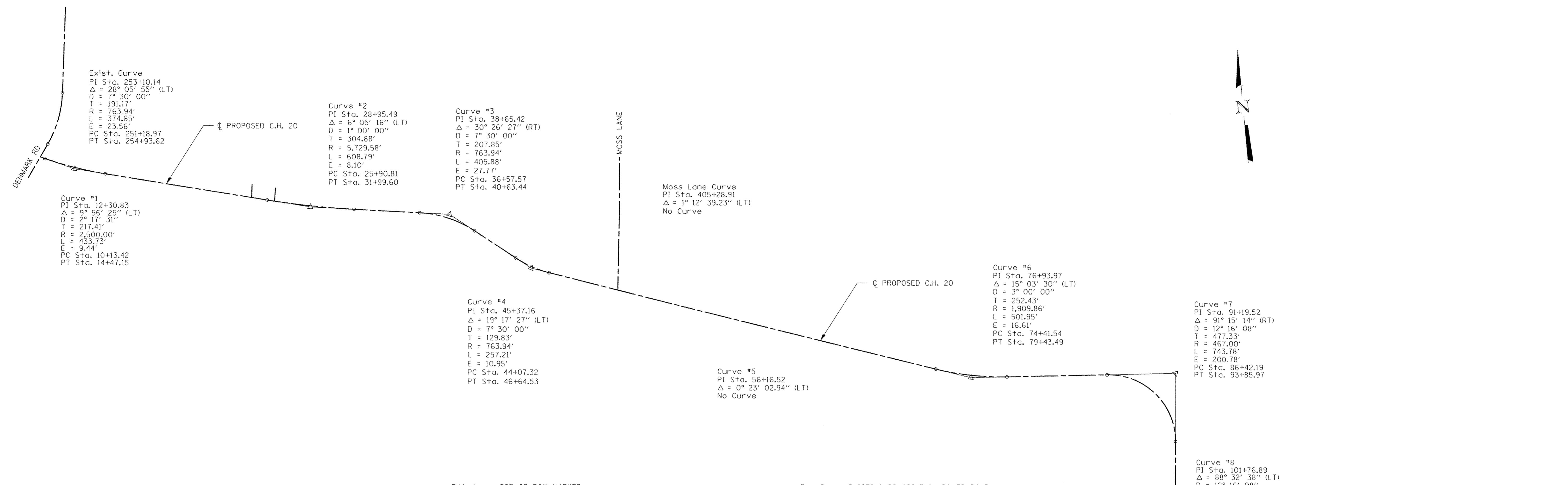
MAILBOX REMOVAL AND REINSTALLATION	
LOCATION	XX005569
FAS 1511 / CH 20 / WEST NEWELL ROAD	EACH
LT. STA 104+95	1
LT. STA 107+01	1
LT. STA 107+50	1
LT. STA 111+37	1
LT. STA 111+80	1
LT. STA 115+64	1
LT. STA 118+96	1
TOTAL	7

PAVEMENT PATCHING SCHEDULE						
LOCATION	EARTH EXCAVATION	STONE RIPRAP CLASS A1	AGGREGATE BASE COURSE, TYPE B	CLASS D PATCHES TYPE IV, 6 INCH	PIPE UNDERDRAINS TYPE 1, 4"	CONCRETE HEADWALLS FOR PIPE DRAINS
FAS 1511 / CH 20 / WEST NEWELL ROAD	20200100 CU YD	28100101 TON	35101400 TON	44201723 SQ YD	60108106 FOOT	60100060 EACH
LT. STA 66+74 TO STA 68+44	179	185	141	309	120	4
LT. STA 71+54 TO STA 72+64	116	120	91	200	90	3
LT. STA 90+61 TO STA 91+01	46	44	33	73	90	3
RT. STA 89+92 TO STA 91+29	138	149	113	249		
TOTAL	479	498	378	831	300	10

PAVEMENT MARKING SCHEDULE									
LOCATION	PAINT PAVEMENT MARKING LETTERS AND SYMBOLS (8' HIGH)	PAINT PAVEMENT MARKING LINE, 4"			PAINT PAVEMENT MARKING LINE, 24" WHITE SOLID STOP BAR	SHORT TERM PAVEMENT MARKING LINE, 4"	TEMPORARY PAVEMENT MARKING LINE, 4"	TEMPORARY PAVEMENT MARKING LINE, 24"	SHORT TERM PAVEMENT MARKING REMOVAL
		WHITE SOLID EDGE LINES	YELLOW SOLID NO PASSING	YELLOW SKIP-DASH CENTERLINE					
FAS 1511 / CH 20 / WEST NEWELL ROAD	78001100 SQ FT	78001110 FOOT	78001110 FOOT	78001110 FOOT	78001180 FOOT	70300100 FOOT	70300220 FOOT	70300280 FOOT	70300150 SQ FT
LT. STA 9+91.29 TO STA 10+79.16		211				21	211		7
LT. STA 10+79.16 TO LT. STA 123+71.43 (OMIT S.R.)		11198				1120	11198		373
RT. STA 11+13.46 TO RT. STA 123+71.43 (OMIT S.R.)		11144				1114	11144		371
RT. STA 9+91.29 TO STA 11+13.46		134				13	134		4
LT. STA 9+91.29 TO STA 53+40			4349				4349		
LT. STA 78+99 TO STA 123+71.43			4473				4473		
CL. STA 44+81 TO STA 80+83				900			900		
RT. STA 9+91.29 TO STA 44+81			3460				3460		
RT. STA 80+83 TO STA 123+71.43			4289				4289		
RT. STA 10+20					27			27	
LT. STA 17+75 (STOP AHEAD)	50								
CL. STA 9+91.29 TO STA 123+71.43						1138			379
SUBTOTAL		22687	16571	900					
TOTAL	50		40158		27	3406	40158	27	1134

GUARDRAIL SCHEDULE					
LOCATION	STEEL PLATE BEAM GUARDRAIL TYPE A	TRAFFIC BARRIER TERMINAL TY 1, (SPL)	GUARDRAIL REMOVAL	VERTICAL ADJUSTMENT OF TBT TY 1, (SPL)	VERTICAL ADJUSTMENT OF GUARDRAIL
	FAS 1511 / CH 20 / WEST NEWELL ROAD	6 FOOT POSTS 63000001 FOOT	TANGENT 63100167 EACH	63200310 FOOT	X6330210 EACH
LT. STA 35+00.25 TO STA 39+25.25				2	325
LT. STA 81+46.00 TO STA 82+83.50				1	87.5
RT. STA 81+01.00 TO STA 82+88.50				1	137.5
LT. STA 85+91.50 TO STA 87+54.00				1	112.5
RT. STA 85+88.50 TO STA 87+01.00				1	62.5
LT. STA 90+85.77 TO STA 94+50.00	262.5	2	362.5		
TOTAL	262.5	2	362.5	6	725
USE	263	2	363	6	725





HORIZONTAL ALIGNMENT			
POINT	STATION	NORTHING	EASTING
DENMARK ROAD			
POT	248+46.17	10758.2702	5939.8531
PI	253+10.14	11160.0975	6171.7990
POT	260+94.17	11951.3906	6197.9954
C.H. 20			
POT	9+79.682	10905.2051	6024.6680
PI	12+30.83	10823.1620	6262.0359
PI	28+95.49	10558.9437	7906.7027
PI	38+65.42	10507.4957	8875.8374
PI	45+37.16	10131.5177	9444.3201
PI	56+16.52	9866.3487	10493.1332
PI	76+93.97	9370.6490	12510.5801
PI	91+19.52	9401.9091	13938.7033
PI	101+76.89	8133.6535	13938.7032
PI	123+40.43	8073.8707	16290.3410
POT	125+33.90	8069.7767	16483.7722
POT	127+81.38	8064.5400	16731.1970
TR 1475E			
POT	600+00.00	10624.5950	7498.0460
POT	601+00.00	10724.5440	7501.2340
DENMAR			
POT	300+00.00	10599.0401	7657.1165
POT	301+00.00	10698.8024	7664.0076
MOSS LANE			
POT	400+00.00	9978.7169	10048.6876
PI	405+28.91	10507.5200	14061.5174
POT	409+29+71	10908.3200	10058.9600
ACCESS ROAD 1			
POT	489+70.00	9,027.8850	13,747.4890
PI	494+23.31	8574.6760	13757.0440
PI	498+50.50	8147.6440	13745.3980
POT	500+00.00	8142.2920	13946.4080
PI	501+15.15	8139.2270	14061.5174
POT	502+06.75	8218.0840	14121.8720

- B.M. A ~ TOP OF ROW MARKER  
STA. 10+09.60 65.56 FT. RT.  
ELEV. 648.03
- B.M. B ~ SPIKE NAIL IN POWER POLE  
STA. 12+77.20 27.12 FT. LT  
ELEV. 650.44
- B.M. C ~ SPIKE NAIL IN POWER POLE  
STA. 18+11.36 42.27 FT. LT.  
ELEV. 663.65
- B.M. D ~ SPIKE NAIL IN POWER POLE  
STA. 24+70.94 9.50 FT. RT.  
ELEV. 653.15
- B.M. E ~ TOP OF LAKE PROPERTY CONCRETE MONUMENT  
STA. 32+92.61 5.01 FT. LT.  
ELEV. 604.14
- B.M. F ~ SPIKE NAIL IN POWER POLE  
STA. 38+61.30 0.55 FT. LT.  
ELEV. 591.87
- B.M. G ~ SPIKE NAIL IN POWER POLE  
STA. 44+18.54 77.40 FT. RT.  
ELEV. 590.31
- B.M. H ~ SPIKE NAIL IN POWER POLE  
STA. 51+11.30 47.19 FT. LT.  
ELEV. 592.39.
- B.M. I ~ SPIKE NAIL IN POWER POLE  
STA. 56+91.10 24.70 FT. RT.  
ELEV. 584.71
- B.M. J ~ SPIKE NAIL IN POWER POLE  
STA. 63+56.38 24.29 FT. RT.  
ELEV. 589.20
- B.M. K ~ SPIKE NAIL IN POWER POLE  
STA. 70+18.83 18.93 FT. RT.  
ELEV. 583.46
- B.M. L ~ R.R. SPIKE IN POWER POLE  
STA. 79+11.39 34.24 FT. RT.  
ELEV. 585.24
- B.M. M ~ CHISELED "O" TOP OF S.W. WINGWALL BRIDGE  
STA. 83+14.15 17.61 FT. RT.  
ELEV. 591.98
- B.M. N ~ CHISELED "O" TOP OF S.E. WINGWALL BRIDGE IDOT No. 4395-1  
STA. 85+66.48 17.31 FT. RT.  
ELEV. 591.99
- B.M. O ~ SPIKE NAIL IN POWER POLE  
STA. 90+27.02 116.38 FT. RT.  
ELEV. 592.02
- B.M. P ~ EXISTING RR SPIKE IN POWER POLE  
STA. 95+94.35 204.30 FT. RT.  
ELEV. 622.15
- B.M. Q ~ N.E. CAP BOLT FIRE HYDRANT  
STA. 99+57.84 304.59 FT. RT.  
ELEV. 637.99
- B.M. R ~ SPIKE NAIL IN POWER POLE  
STA. 105+52.00 21.63 FT. RT.  
ELEV. 655.44
- B.M. S ~ N.W. CAP BOLT, FIRE HYDRANT  
STA. 113+88.00 26.83 FT. LT.  
ELEV. 667.55
- B.M. T ~ S.W. CAP BOLT, FIRE HYDRANT  
STA. 120+68.64 19.61 FT. LT.  
ELEV. 665.24
- B.M. U ~ CHISELED "O" TOP OF S.E. HEADWALL, BOX CULVERT  
STA. 124+38.79 35.28 FT. RT.  
ELEV. 654.26
- B.M. H1 ~ SPIKE NAIL IN POWER POLE (MOSS LANE)  
STA. 403+27.15 12.69 FT. LT.  
ELEV. 632.63
- B.M. H2 ~ SPIKE NAIL IN POWER POLE (MOSS LANE)  
STA. 407+32.18 20.18 FT. LT.  
ELEV. 663.21

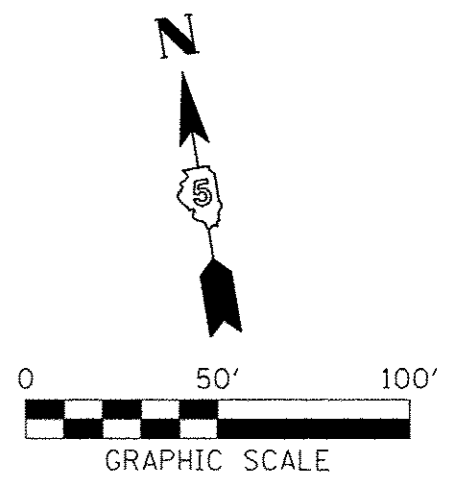
- Curve #8  
PI Sta. 101+76.89  
Δ = 88° 32' 38" (LT)  
D = 12° 16' 08"  
T = 455.28'  
R = 467.00'  
L = 721.69'  
E = 185.20'  
PC Sta. 97+21.61  
PT Sta. 104+43.31
- Access Road 1  
Curve Data  
PI Sta. 501+15.15  
Δ = 54° 05' 46" (LT)  
D = 57° 17' 45"  
T = 51.06'  
R = 100.00'  
L = 94.42'  
E = 12.28'  
PC Sta. 500+64.09  
PT Sta. 501+58.51
- Curve #9  
PI Sta. 123+40.43  
Δ = 0° 14' 37.56" (LT)  
No Curve

**CURVE DATA**

P.I. STA. 253+10.14  
 $\Delta = 28^\circ 05' 55''$  (LT)  
 $D = 7^\circ 30' 00''$   
 $T = 191.17'$   
 $R = 763.94'$   
 $L = 374.65'$   
 $E = 23.56'$   
 P.C. STA. 251+18.97  
 P.T. STA. 254+93.62

**CURVE #1  
 CURVE DATA**

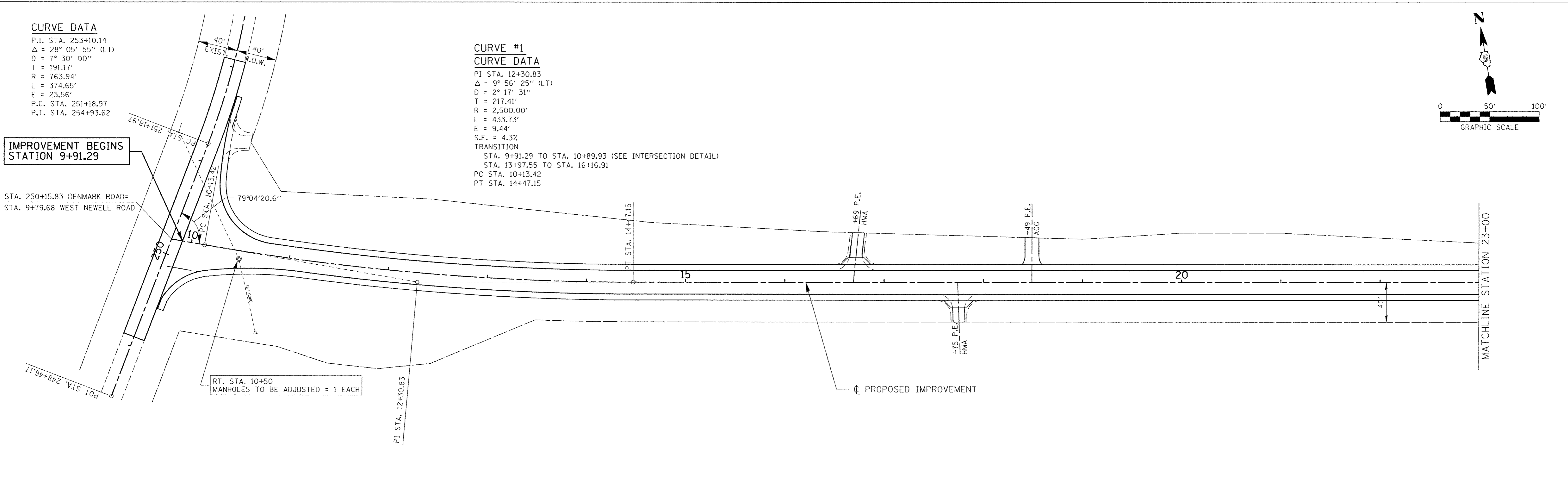
PI STA. 12+30.83  
 $\Delta = 9^\circ 56' 25''$  (LT)  
 $D = 2^\circ 17' 31''$   
 $T = 217.41'$   
 $R = 2,500.00'$   
 $L = 433.73'$   
 $E = 9.44'$   
 $S.E. = 4.3\%$   
 TRANSITION  
 STA. 9+91.29 TO STA. 10+89.93 (SEE INTERSECTION DETAIL)  
 STA. 13+97.55 TO STA. 16+16.91  
 PC STA. 10+13.42  
 PT STA. 14+47.15



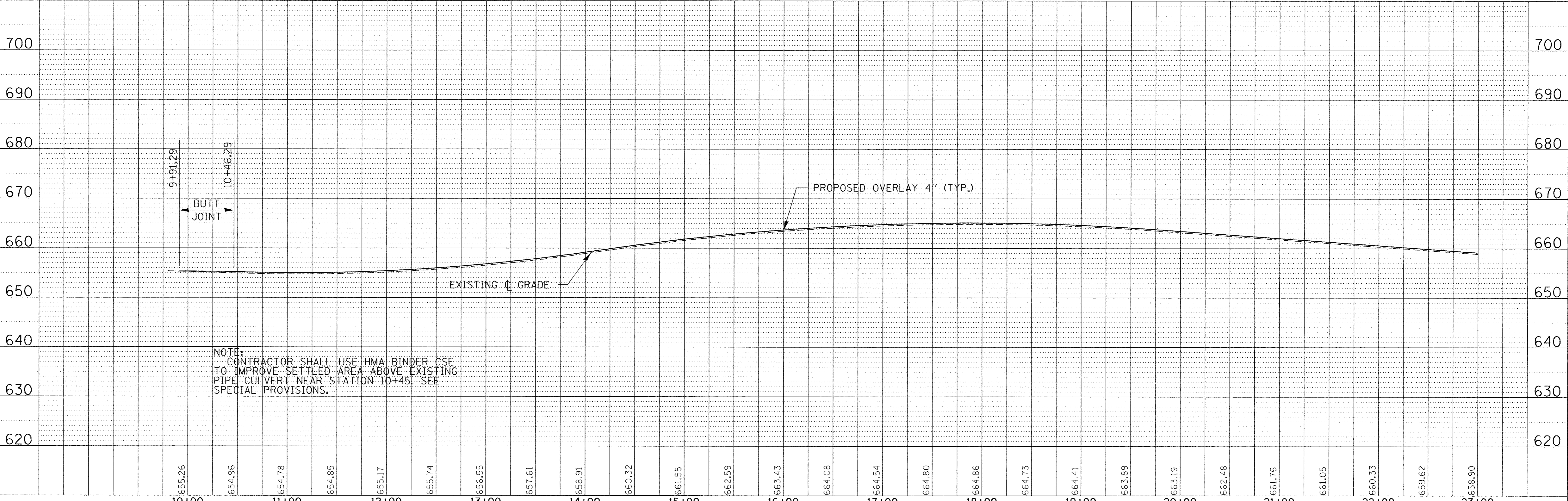
PLAN	DESIGNED	DATE
NOTE BOOK	PLOTTED	
NO.	GRADES CHECKED	
	BY	
	DATE	

**IMPROVEMENT BEGINS  
 STATION 9+91.29**

STA. 250+15.83 DENMARK ROAD=  
 STA. 9+79.68 WEST NEWELL ROAD



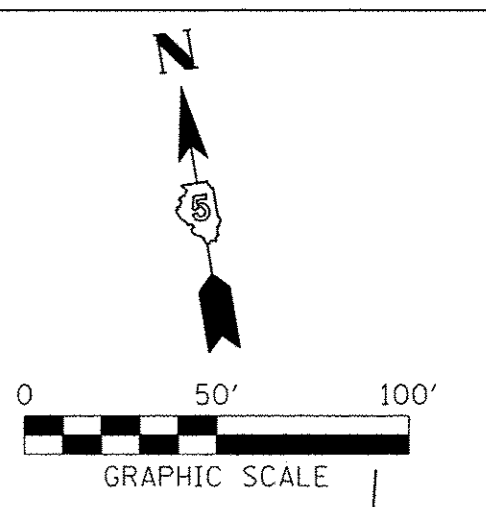
PROFILE	DESIGNED	DATE
NOTE BOOK	PLOTTED	
NO.	GRADES CHECKED	
	BY	
	DATE	



FILE NAME = 140023-sht-pp1.dgn	USER NAME = #USER#	DESIGNED - S.W.M.	REVISED -	<b>STATE OF ILLINOIS          VERMILION COUNTY HIGHWAY DEPARTMENT</b>	<b>PLAN &amp; PROFILE          WEST NEWELL ROAD</b>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = #SCALE#	DRAWN - D.A.B.	REVISED -			1511	13-00203-00-RS	VERMILION	19	7	
	PLOT DATE = 2/24/2017	CHECKED - J.W.F.	REVISED -			WEST NEWELL ROAD / C.H. 20	CONTRACT NO. 91545				
		DATE - 01/26/17	REVISED -			[ILLINOIS] FED. AID PROJECT RS-0183(323)					

SCALE: 50H:10V SHEET NO. 1 OF 9 SHEETS STA. 9+91.29 TO STA. 23+00.00



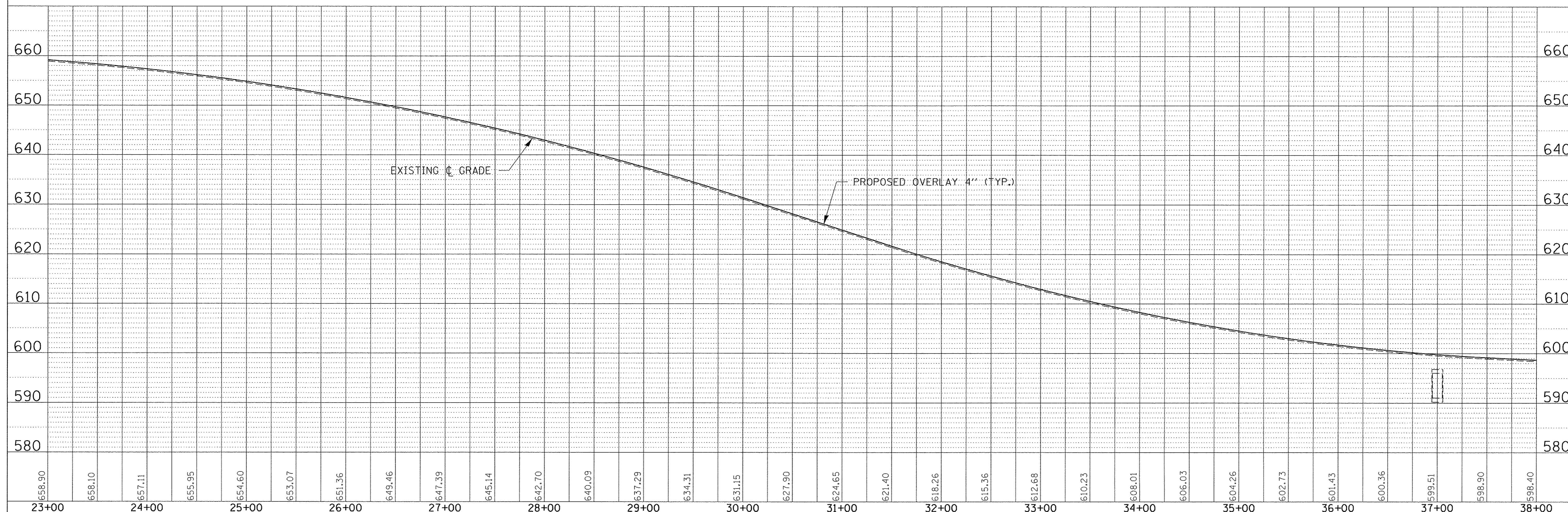
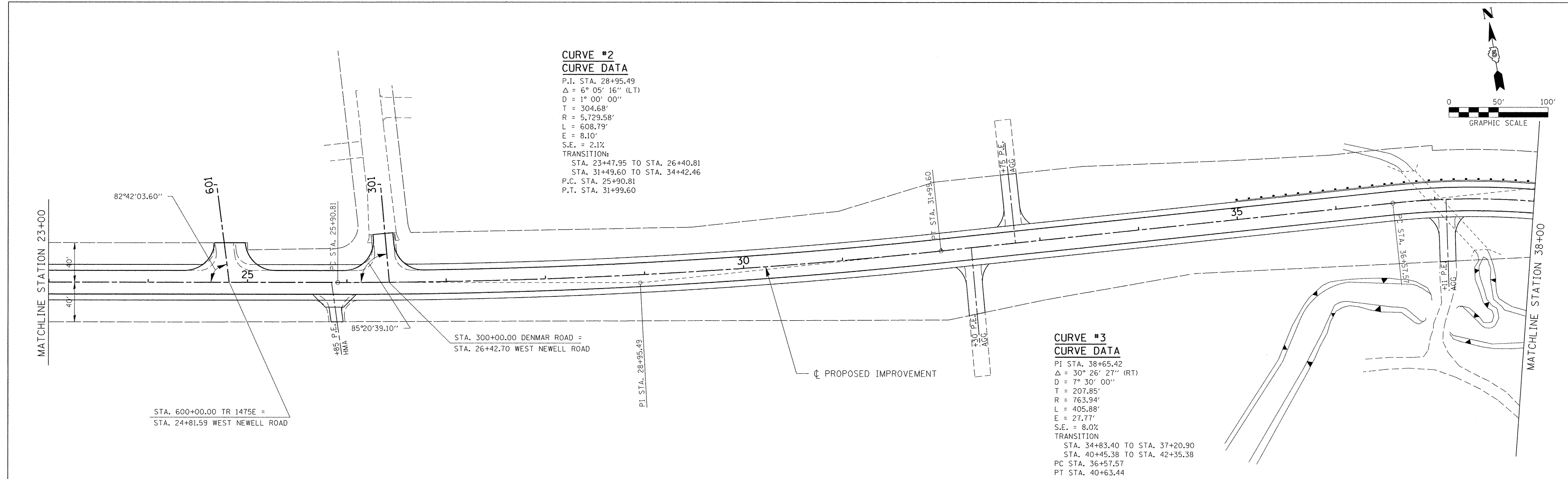


**CURVE #2  
CURVE DATA**  
 P.I. STA. 28+95.49  
 $\Delta = 6^\circ 05' 16''$  (LT)  
 $D = 1^\circ 00' 00''$   
 $T = 304.68'$   
 $R = 5,729.58'$   
 $L = 608.79'$   
 $E = 8.10'$   
 $S.E. = 2.1\%$   
 TRANSITION:  
 STA. 23+47.95 TO STA. 26+40.81  
 STA. 31+49.60 TO STA. 34+42.46  
 P.C. STA. 25+90.81  
 P.T. STA. 31+99.60

**CURVE #3  
CURVE DATA**  
 P.I. STA. 38+65.42  
 $\Delta = 30^\circ 26' 27''$  (RT)  
 $D = 7^\circ 30' 00''$   
 $T = 207.85'$   
 $R = 763.94'$   
 $L = 405.88'$   
 $E = 27.77'$   
 $S.E. = 8.0\%$   
 TRANSITION:  
 STA. 34+83.40 TO STA. 37+20.90  
 STA. 40+45.38 TO STA. 42+35.38  
 P.C. STA. 36+57.57  
 P.T. STA. 40+63.44

PLAN	REVISIONS	DATE
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
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PROFILE	REVISIONS	DATE
NO.	BY	
NO.	BY	
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NO.	BY	

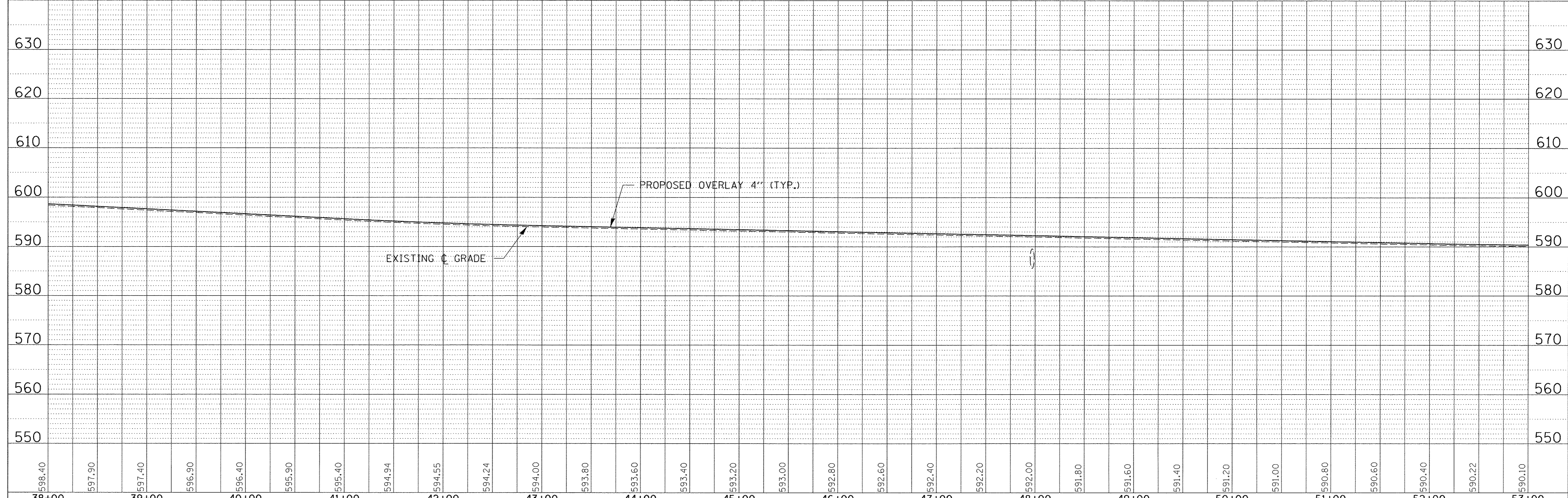
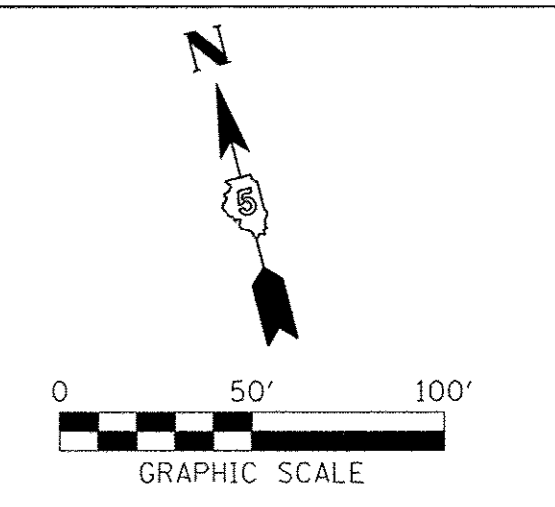
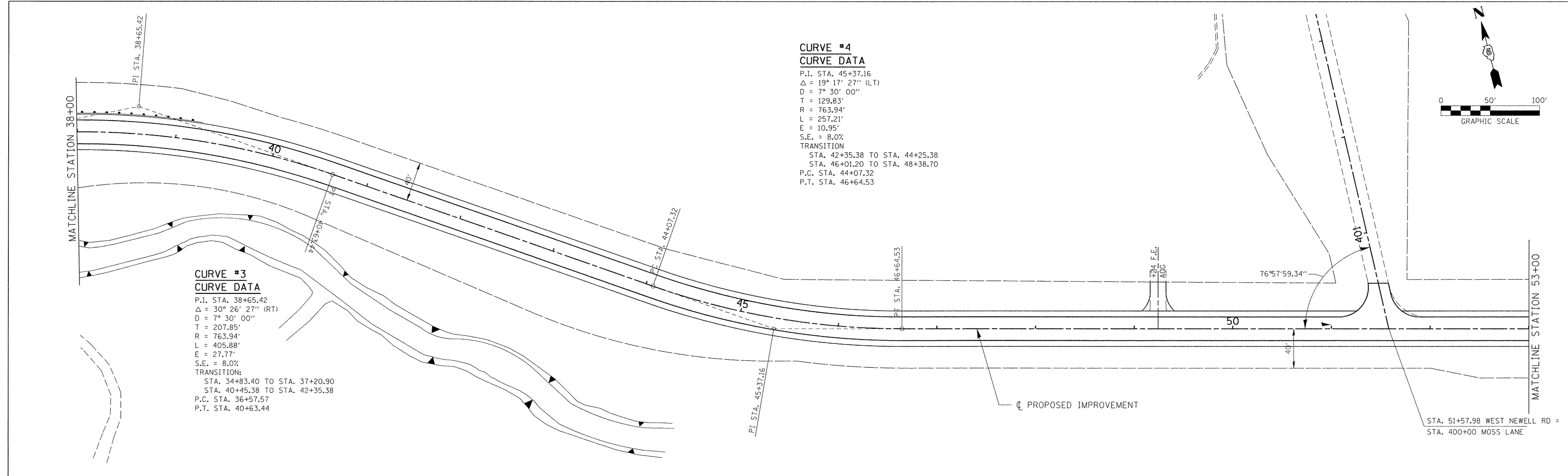


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DESIGNED - S.W.M.	DRAWN - D.A.B.	REVISED -	1511			13-00203-00-RS	VERMILION	19	8	
CHECKED - J.W.F.	DATE - 01/26/17	REVISED -	WEST NEWELL ROAD / C.H. 20			CONTRACT NO. 91545				
PLOT SCALE = #SCALE#	PLOT DATE = 2/24/2017	REVISED -	ILLINOIS FED. AID PROJECT RS-0183(323)							



PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	ALIGNED		
	CHECKED		
	BY		
	DATE		

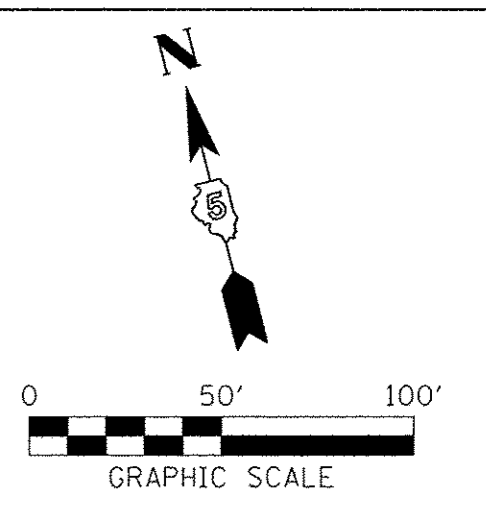
PROFILE	GRADES	BY	DATE
NOTE BOOK NO.	CHECKED		
	BY		
	DATE		



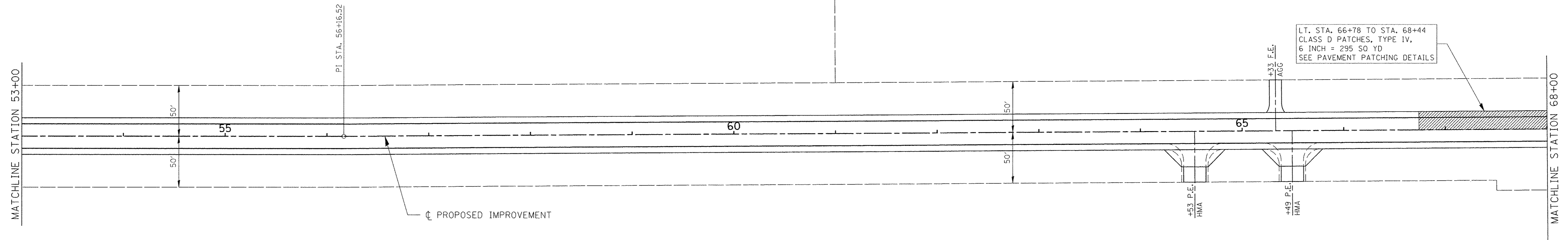
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HAMPTON, LENZINI AND RENWICK, INC. 3055 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = #SCALE#	DRAWN - D.A.B.	REVISED -			1511	13-00203-00-RS	VERMILION	19	9	
PLOT DATE = 2/24/2017	DATE - 01/26/17	CHECKED - J.W.F.	REVISED -			WEST NEWELL ROAD / C.H. 20	CONTRACT NO. 91545	ILLINOIS FED. AID PROJECT RS-0183(323)			
		SCALE: 50H:10V				SHEET NO. 3 OF 9 SHEETS	STA. 38+00.00 TO STA. 53+00.00				



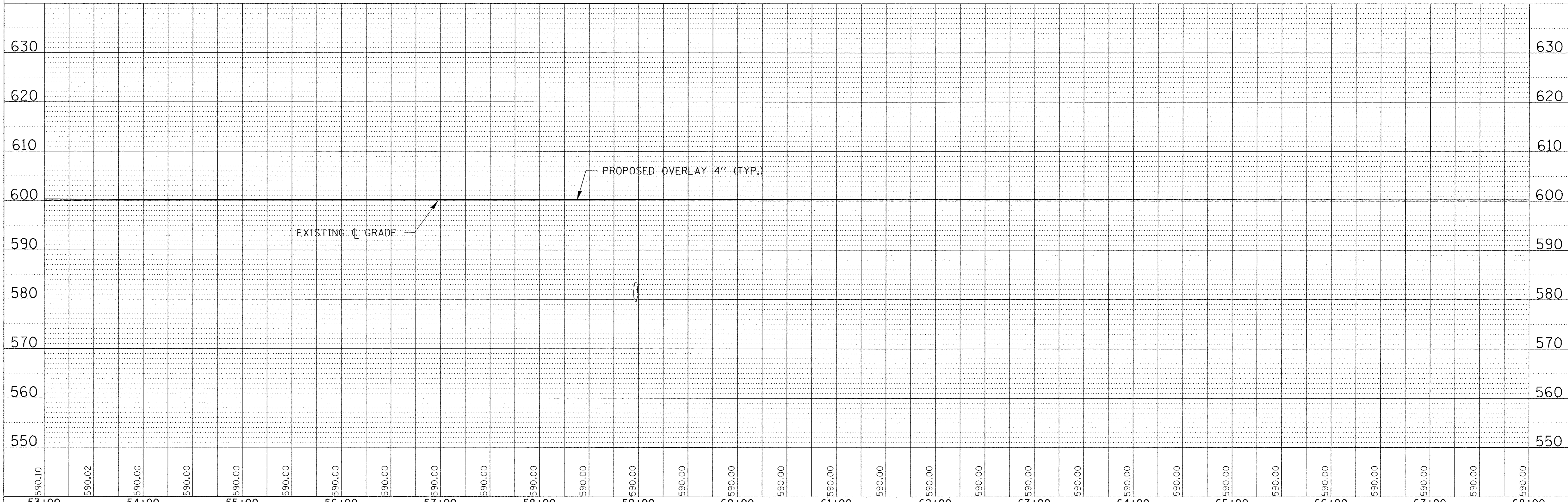
**CURVE #5  
CURVE DATA**  
 P.I. STA. 56+16.52  
 $\Delta = 0^\circ 23' 02.94''$  (LT)  
 NO CURVE



PLAN	DATE
SURVEYED	BY
ALIGNED	CHECKED
RT. OF WAY	CHECKED
NO.	FILE NAME



PROFILE	DATE
SURVEYED	BY
GRADES	CHECKED
B.M. NOTED	NOTATING
NO.	CRVD



53+00	54+00	55+00	56+00	57+00	58+00	59+00	60+00	61+00	62+00	63+00	64+00	65+00	66+00	67+00	68+00
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FILE NAME = 140023-sht-pp4.dgn  
 HAMPSON, LENZINI AND RENWICK, INC.  
 3085 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184.000559

USER NAME = #USER#  
 PLOT SCALE = #SCALE#  
 PLOT DATE = 2/24/2017

DESIGNED - S.W.M.  
 DRAWN - D.A.B.  
 CHECKED - J.W.F.  
 DATE - 01/26/17

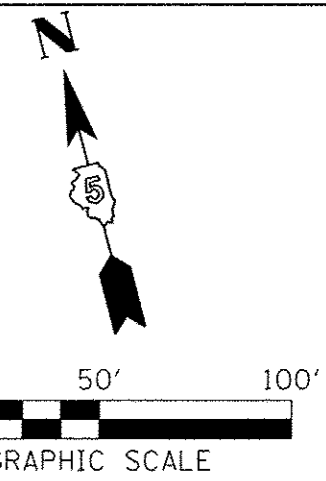
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
VERMILION COUNTY HIGHWAY DEPARTMENT**

**PLAN & PROFILE  
WEST NEWELL ROAD**  
 SCALE: 50H:10V SHEET NO. 4 OF 9 SHEETS STA. 53+00.00 TO STA. 68+00.00

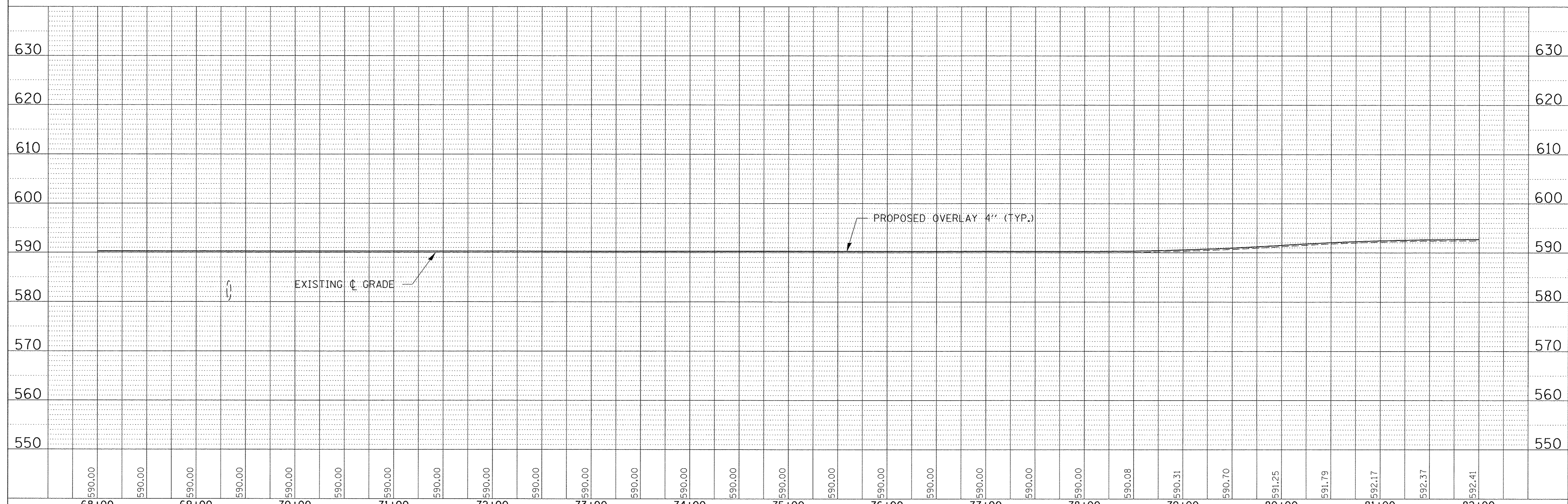
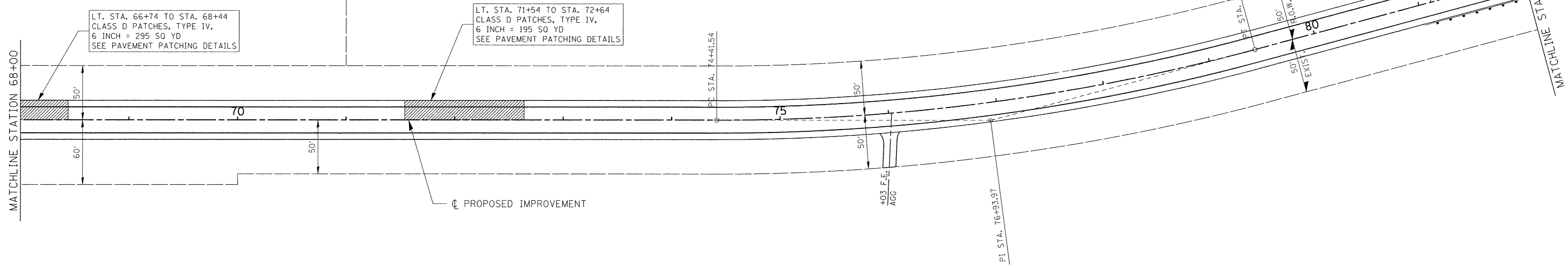
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1511	13-00203-00-RS	VERMILION	19	10
WEST NEWELL ROAD / C.H. 20		CONTRACT NO. 91545		
ILLINOIS FED. AID PROJECT RS-018313231				





**CURVE #6  
CURVE DATA**

PI STA. 76+93.97  
 $\Delta = 15^\circ 03' 30''$  (LT)  
 $D = 3^\circ 00' 00''$   
 $T = 252.43'$   
 $R = 1,909.86'$   
 $L = 501.95'$   
 $E = 16.61'$   
 $S.E. = 5.3\%$   
 TRANSITION  
 STA. 72+84.94 TO STA. 74+91.54  
 STA. 78+93.49 TO STA. 81+00.09  
 PC STA. 74+41.54  
 PT STA. 79+43.49

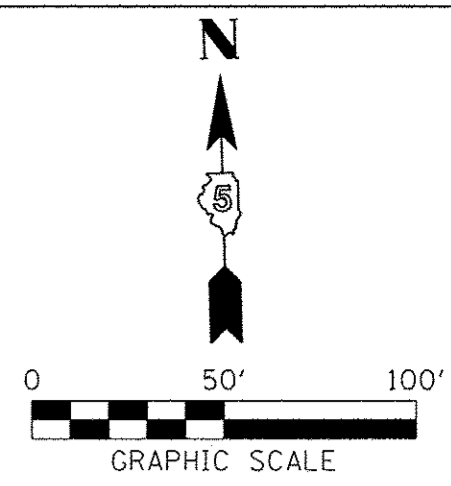


PLAN	BY	DATE
SURVEYED		
ALIGNED		
CHECKED		
NO.		
NOTE BOOK		
FILE NAME		

PROFILE	BY	DATE
DESIGNED		
CHECKED		
NO.		
NOTE BOOK		
FILE NAME		

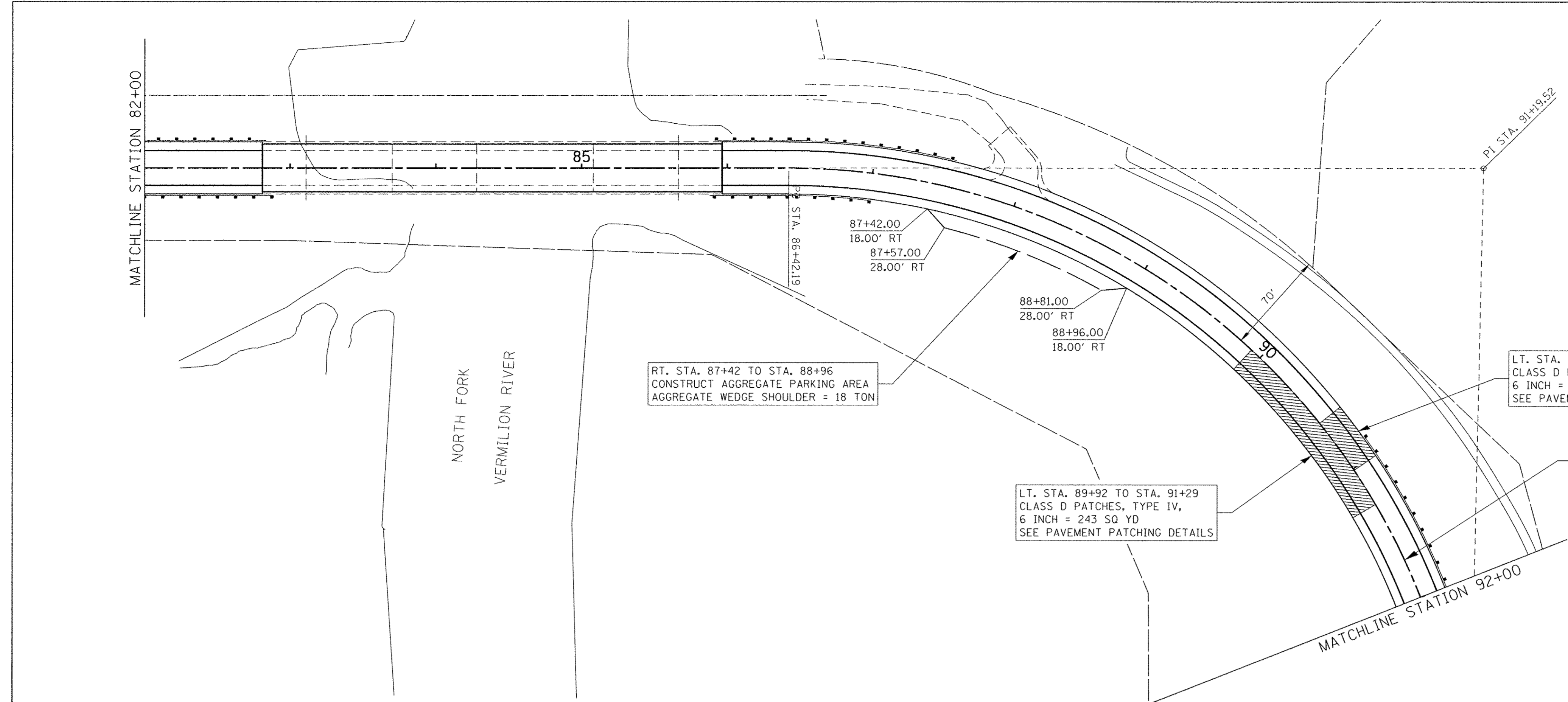
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DESIGNED BY: HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = #SCALE#	DRAWN - D.A.B.	REVISED -			1511	13-00203-00-RS	VERMILION	19	11
PLOT DATE = 2/24/2017	CHECKED - J.W.F.	DATE - 01/26/17	REVISED -			WEST NEWELL ROAD / C.H. 20		CONTRACT NO. 91545		ILLINOIS FED. AID PROJECT RS-0183(323)
						SCALE: 50H:10V	SHEET NO. 5 OF 9 SHEETS	STA. 68+00.00 TO STA. 82+00.00		



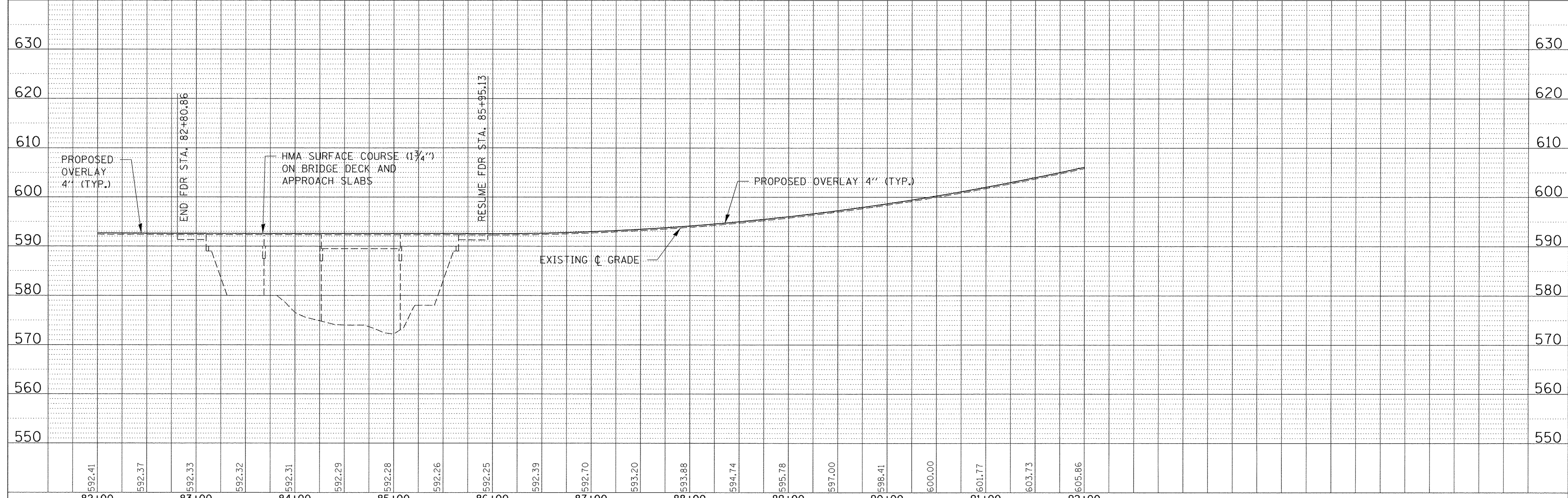


PLAN	DATE
BY	
SURVEYED	
ALIGNED	
CHECKED	
NO. _____	
NOTE BOOK	
NO. _____	
DATE	
BY	
DESIGNED	
CHECKED	
DATE	

PROFILE	DATE
BY	
DESIGNED	
CHECKED	
DATE	
NO. _____	
NOTE BOOK	
NO. _____	
DATE	
BY	
DESIGNED	
CHECKED	
DATE	

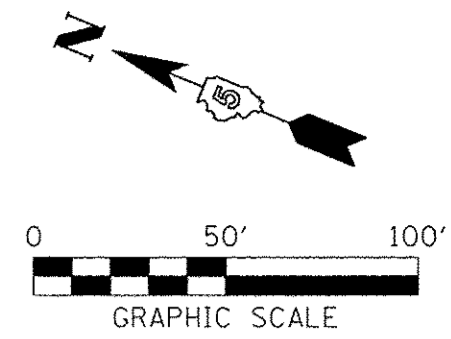


**CURVE #7**  
**CURVE DATA**  
 PI STA. 91+19.52  
 $\Delta = 91^\circ 15' 14''$  (RT)  
 $D = 12^\circ 16' 08''$   
 $T = 477.33'$   
 $R = 467.00'$   
 $L = 743.78'$   
 $E = 200.78'$   
 $S.E. = 6.0\%$   
 TRANSITION  
 STA. 85+96.52 TO STA. 87+63.19  
 STA. 93+44.31 TO STA. 95+10.97  
 PC STA. 86+42.19  
 PT STA. 93+85.97



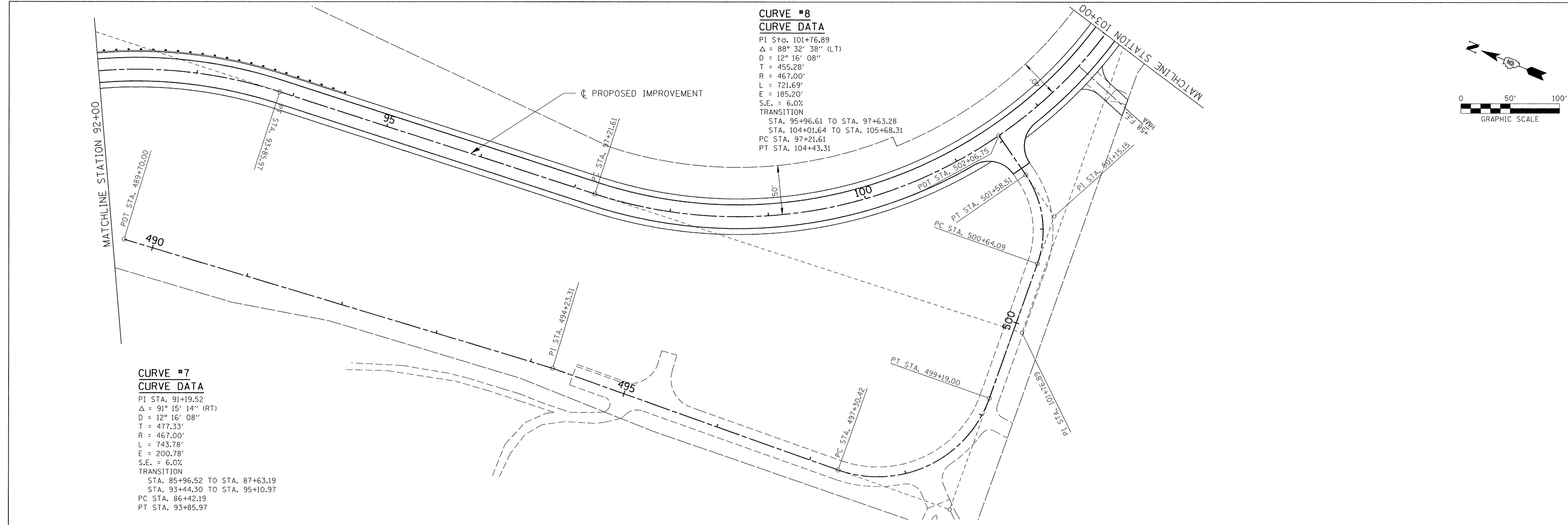
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DESIGNED BY: HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS/PE/SE CORP. 184.000959	PLOT SCALE = #SCALE#	CHECKED - J.W.F.	REVISED -			1511	13-00203-00-RS	VERMILION	19	12
PLOT DATE = 2/24/2017	DATE - 01/26/17	REVISED -	REVISED -			WEST NEWELL ROAD / C.H. 20		CONTRACT NO. 91545		
						SCALE: 50H:10V		SHEET NO. 6 OF 9 SHEETS		STA. 82+00.00 TO STA. 92+00.00





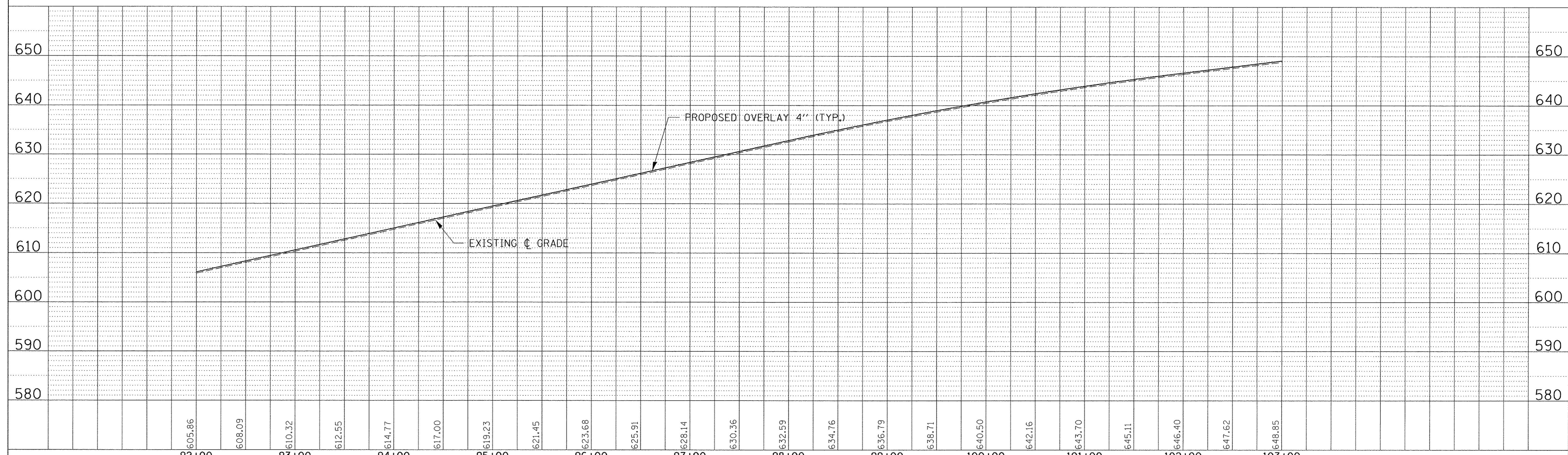
**CURVE #8**  
**CURVE DATA**  
 PI STA. 101+76.89  
 $\Delta = 88^\circ 32' 38''$  (LT)  
 D = 12° 16' 08"  
 T = 455.28'  
 R = 467.00'  
 L = 721.69'  
 E = 185.20'  
 S.E. = 6.0%  
 TRANSITION  
 STA. 95+96.61 TO STA. 97+63.28  
 STA. 104+01.64 TO STA. 105+68.31  
 PC STA. 97+21.61  
 PT STA. 104+43.31

**CURVE #7**  
**CURVE DATA**  
 PI STA. 91+19.52  
 $\Delta = 91^\circ 15' 14''$  (RT)  
 D = 12° 16' 08"  
 T = 477.33'  
 R = 467.00'  
 L = 743.78'  
 E = 200.78'  
 S.E. = 6.0%  
 TRANSITION  
 STA. 85+96.52 TO STA. 87+63.19  
 STA. 93+44.30 TO STA. 95+10.97  
 PC STA. 86+42.19  
 PT STA. 93+85.97



PLAN	SURVEYED	BY	DATE
NOTE BOOK	ALIGNED		
NO.	CHECKED		
	BY		
	FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	GRADES CHECKED		
NO.	B.M. NOTED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		

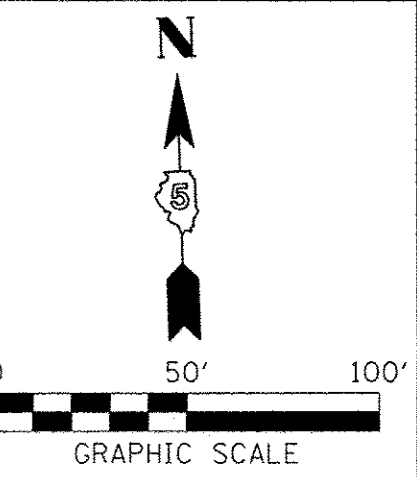


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<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = #SCALE#	DRAWN - D.A.B.	REVISED -			1511	13-00203-00-RS	VERMILION	19	13
<b>ILR</b> ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-000959	PLOT DATE = 2/24/2017	CHECKED - J.W.F.	REVISED -			WEST NEWELL ROAD / C.H. 20		CONTRACT NO. 91545		
		DATE - 01/26/17	REVISED -			SCALE: 50H:10V		SHEET NO. 7 OF 9 SHEETS		STA. 92+00.00 TO STA. 103+00.00



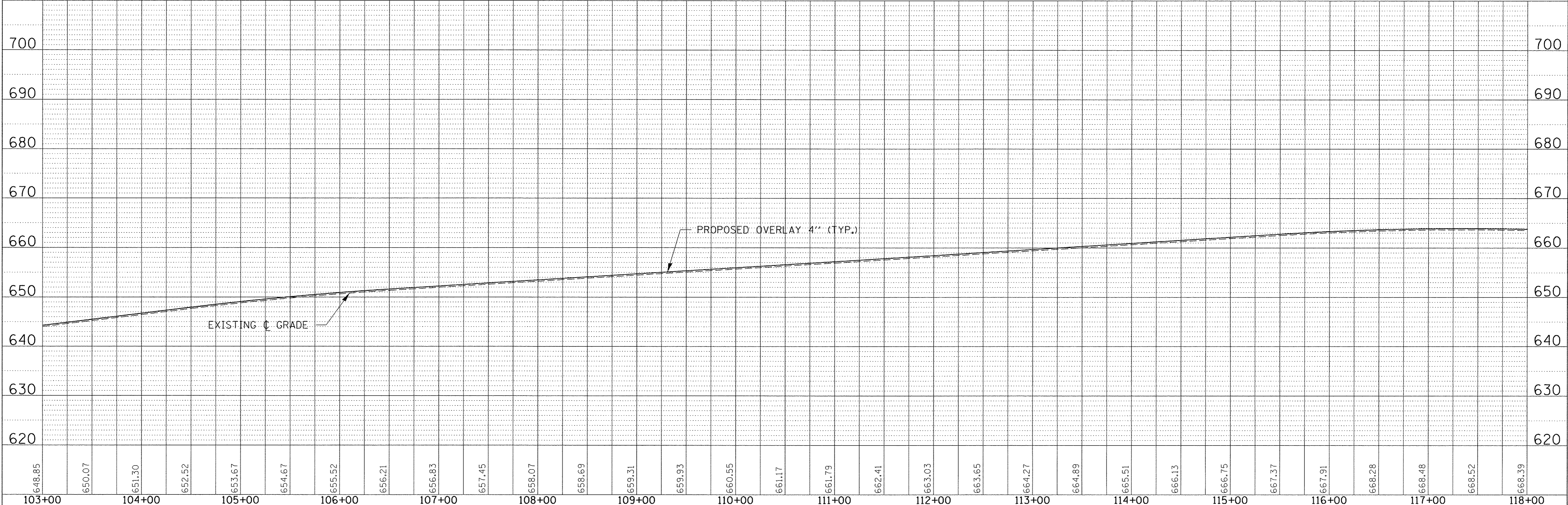
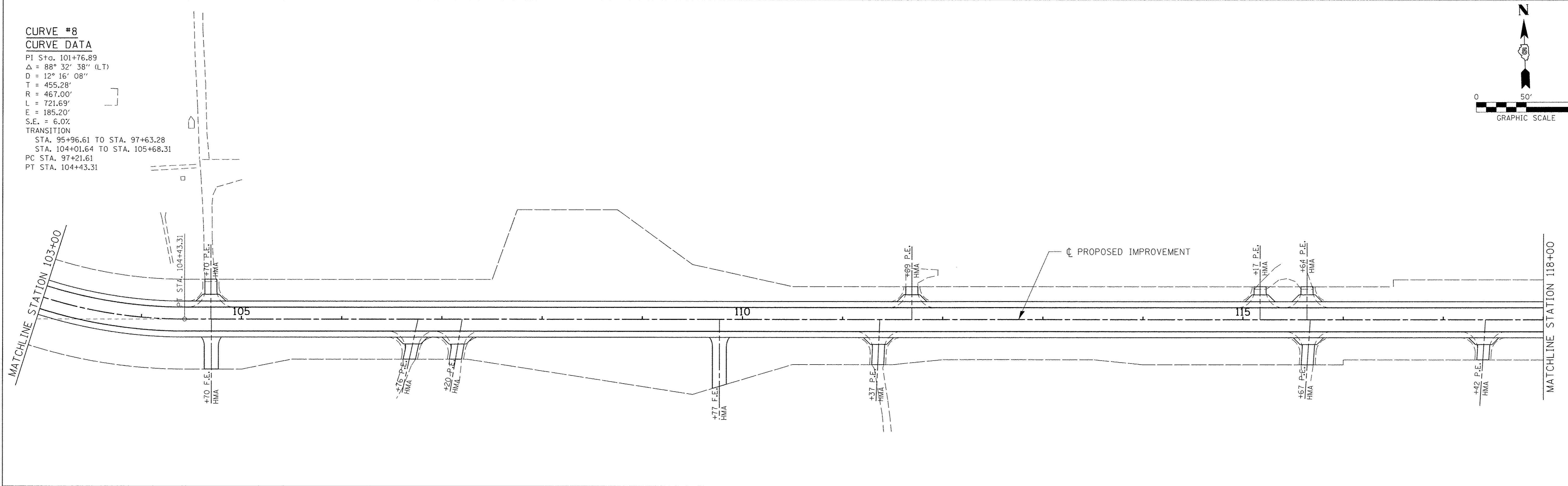
**CURVE #8**  
**CURVE DATA**

PI STA. 101+76.89  
 $\Delta = 88^\circ 32' 38''$  (L.T.)  
 $D = 12^\circ 16' 08''$   
 $T = 455.28'$   
 $R = 467.00'$   
 $L = 721.69'$   
 $E = 185.20'$   
 $S.E. = 6.0\%$   
 TRANSITION  
 STA. 95+96.61 TO STA. 97+63.28  
 STA. 104+01.64 TO STA. 105+68.31  
 PC STA. 97+21.61  
 PT STA. 104+43.31



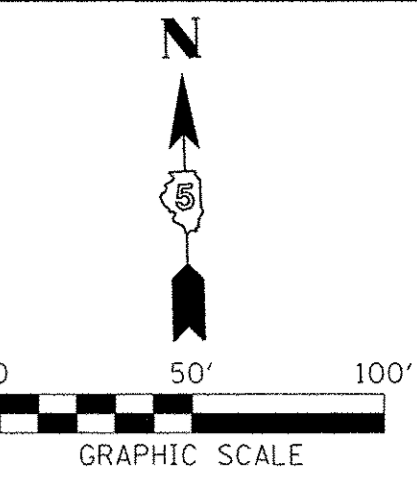
PLAN	REVISED	DATE
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	

PROFILE	REVISED	DATE
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	



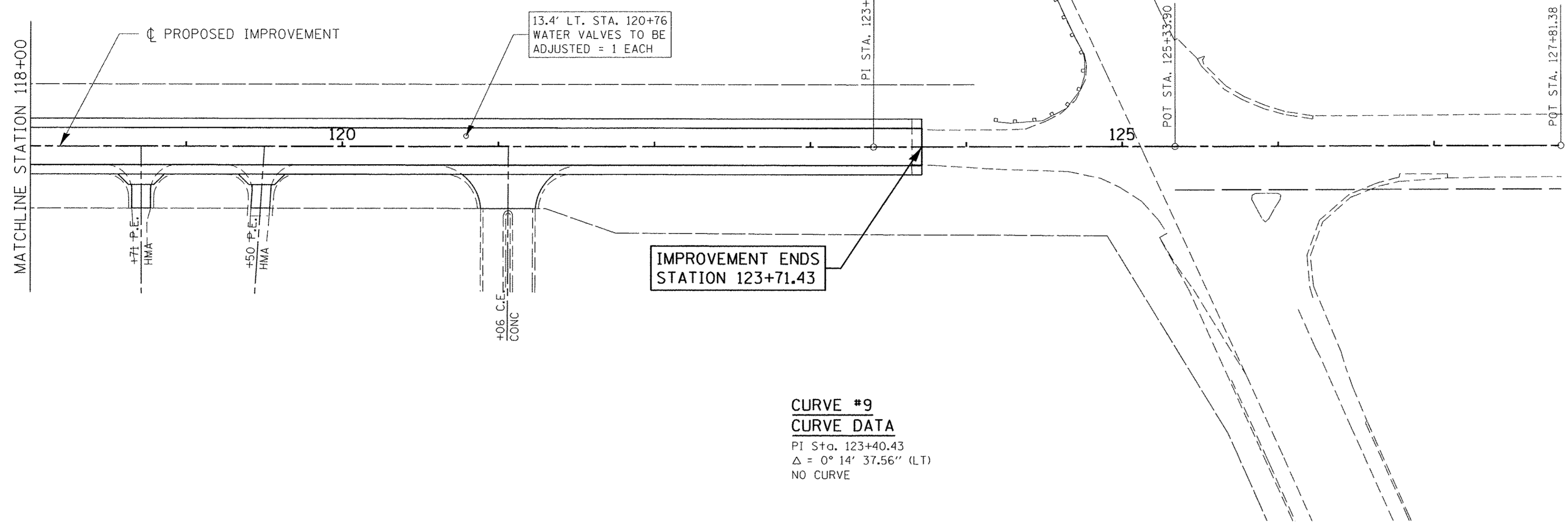
FILE NAME = 140023-sht-pp8.dgn	USER NAME = #USER#	DESIGNED - S.W.M.	REVISED -	<b>STATE OF ILLINOIS</b> <b>VERMILION COUNTY HIGHWAY DEPARTMENT</b>	<b>PLAN &amp; PROFILE</b> <b>WEST NEWELL ROAD</b>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3055 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009959	PLOT SCALE = #SCALE#	DRAWN - D.A.B.	REVISED -			1511	13-00203-00-RS	VERMILION	19	14
PLOT DATE = 2/24/2017	CHECKED - J.W.F.	REVISED -	DATE - 01/26/17			WEST NEWELL ROAD / C.H. 20	CONTRACT NO. 91545	ILLINOIS	FED. AID PROJECT RS-018313231	
SCALE: 50H:10V	SHEET NO. 8 OF 9 SHEETS	STA. 103+00.00 TO STA. 118+00.00								



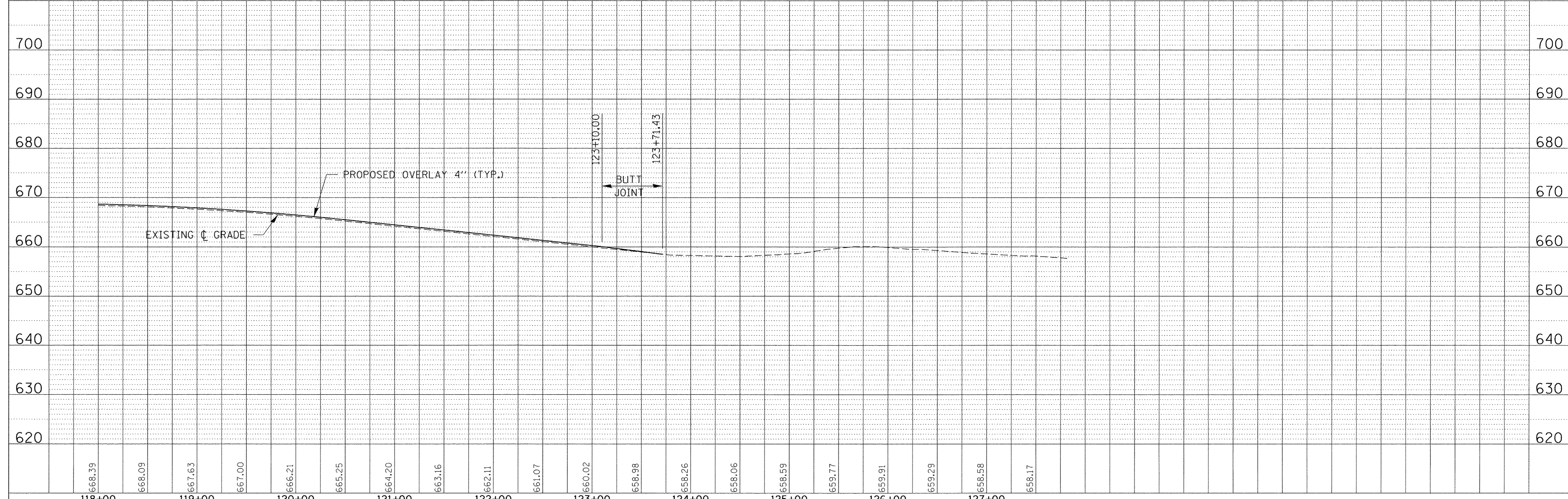


PLAN	SURVEYED	BY	DATE
NOTE BOOK	ALIGNED		
NO.	FILE NAME		

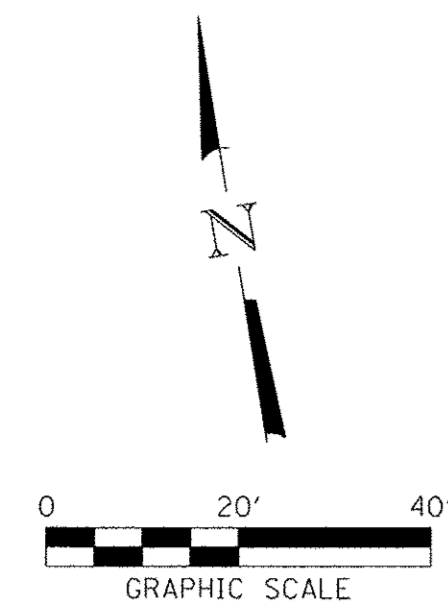
PROFILE	SURVEYED	BY	DATE
NOTE BOOK	GRADES CHECKED		
NO.	STRUCTURE NOTATIONS CHECKED		



**CURVE #9**  
**CURVE DATA**  
 PI Sta. 123+40.43  
 $\Delta = 0^\circ 14' 37.56''$  (LT)  
 NO CURVE

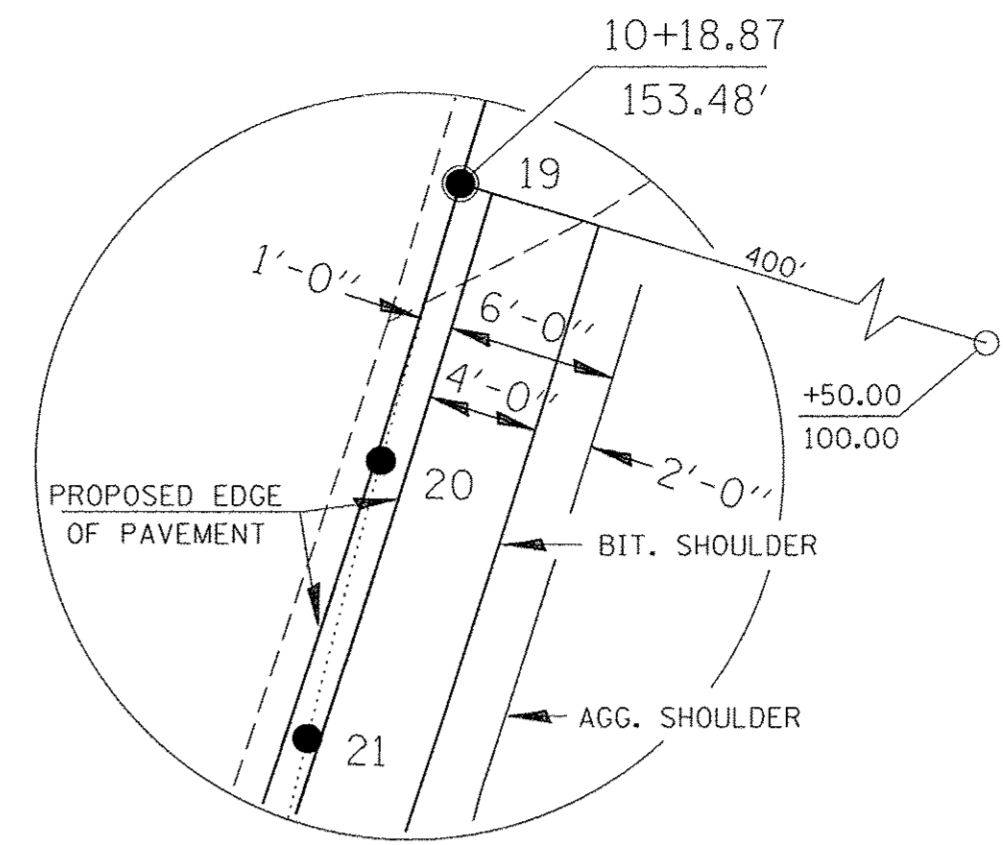
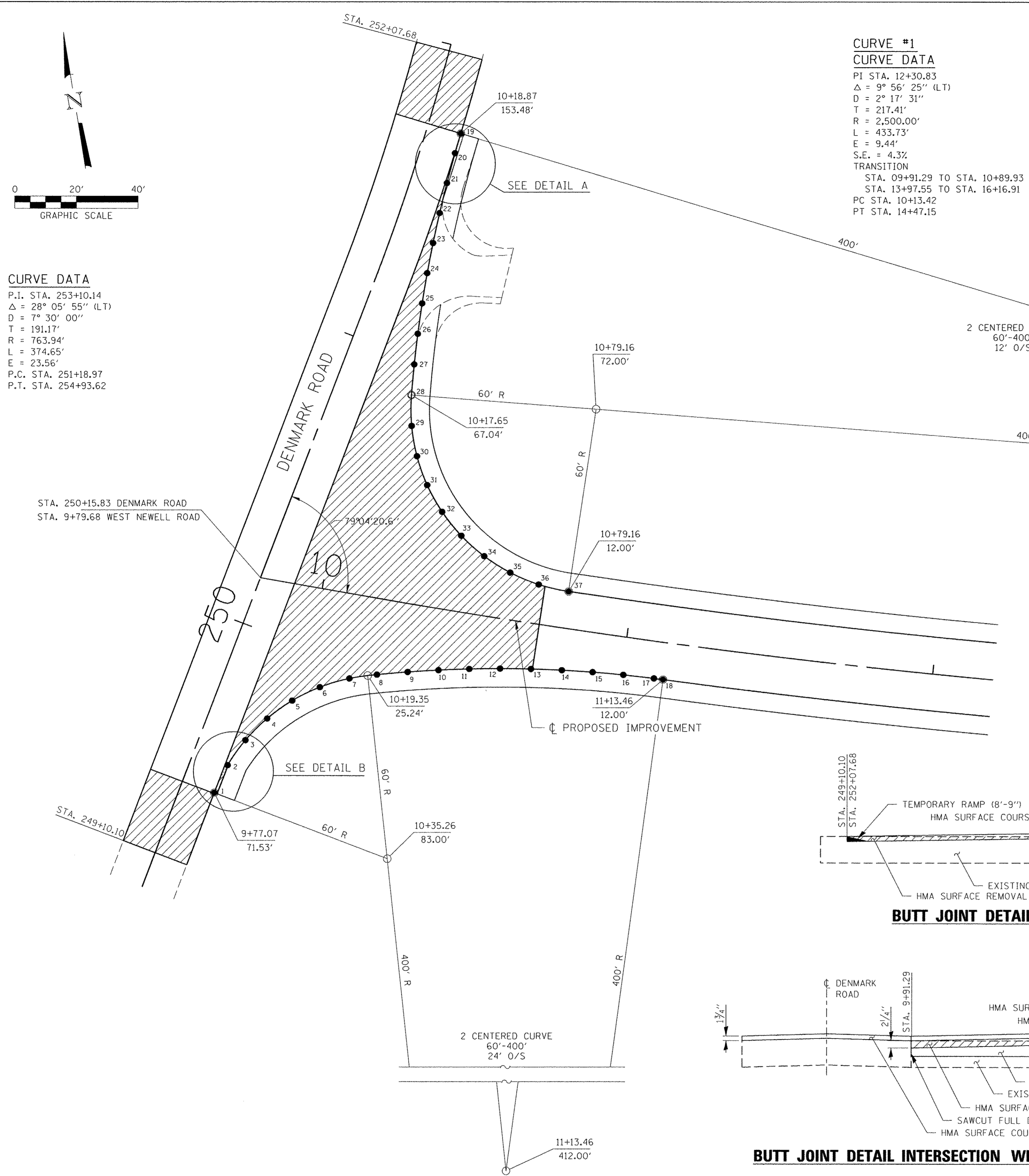


FILE NAME = 140023-sht-pp9.dgn	USER NAME = #USER#	DESIGNED - S.W.M.	REVISED -	<b>STATE OF ILLINOIS</b> <b>VERMILION COUNTY HIGHWAY DEPARTMENT</b>	<b>PLAN &amp; PROFILE</b> <b>WEST NEWELL ROAD</b>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009589	PLOT SCALE = #SCALE#	DRAWN - D.A.B.	REVISED -			1511	13-00203-00-RS	VERMILION	19	15
PLOT DATE = 2/24/2017	DATE = 01/26/17	CHECKED - J.W.F.	REVISED -			WEST NEWELL ROAD / C.H. 20		CONTRACT NO. 91545		[ILLINOIS] FED. AID PROJECT RS-0183(323)
		DATE = 01/26/17	REVISED -			SCALE: 50H:10V	SHEET NO. 9 OF 9 SHEETS	STA. 118+00.00 TO STA. 123+65.00		

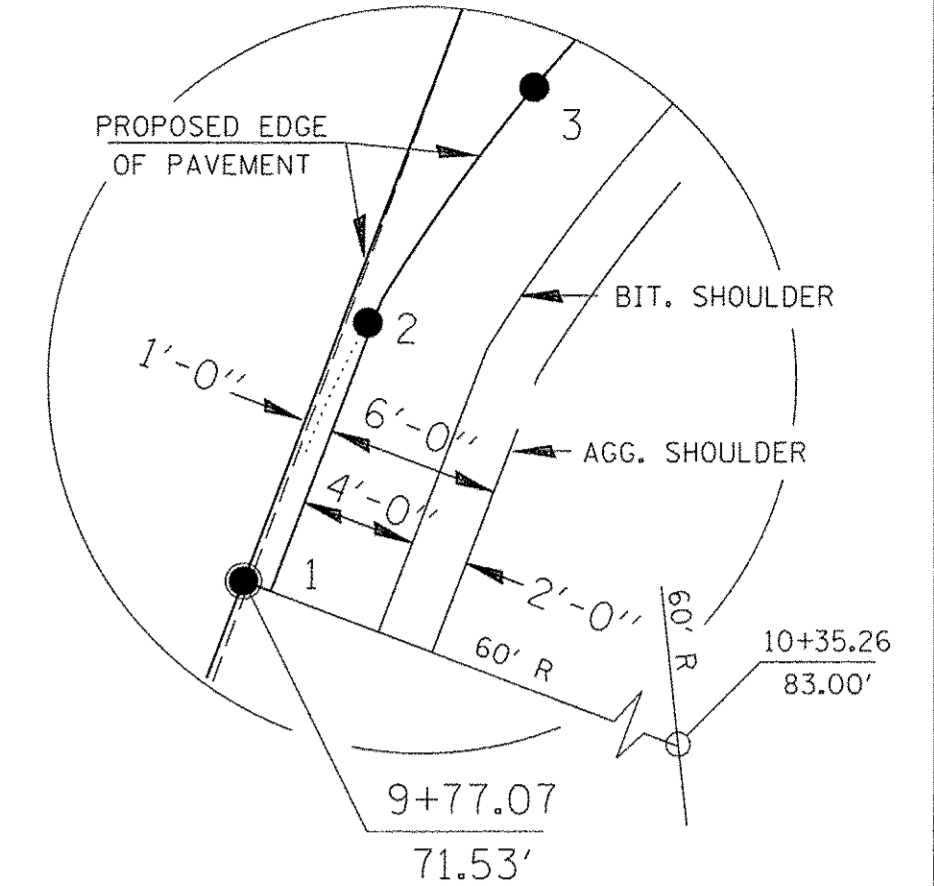


**CURVE DATA**  
 P.I. STA. 253+10.14  
 $\Delta = 28^\circ 05' 55''$  (LT)  
 $D = 7^\circ 30' 00''$   
 $T = 191.17'$   
 $R = 763.94'$   
 $L = 374.65'$   
 $E = 23.56'$   
 P.C. STA. 251+18.97  
 P.T. STA. 254+93.62

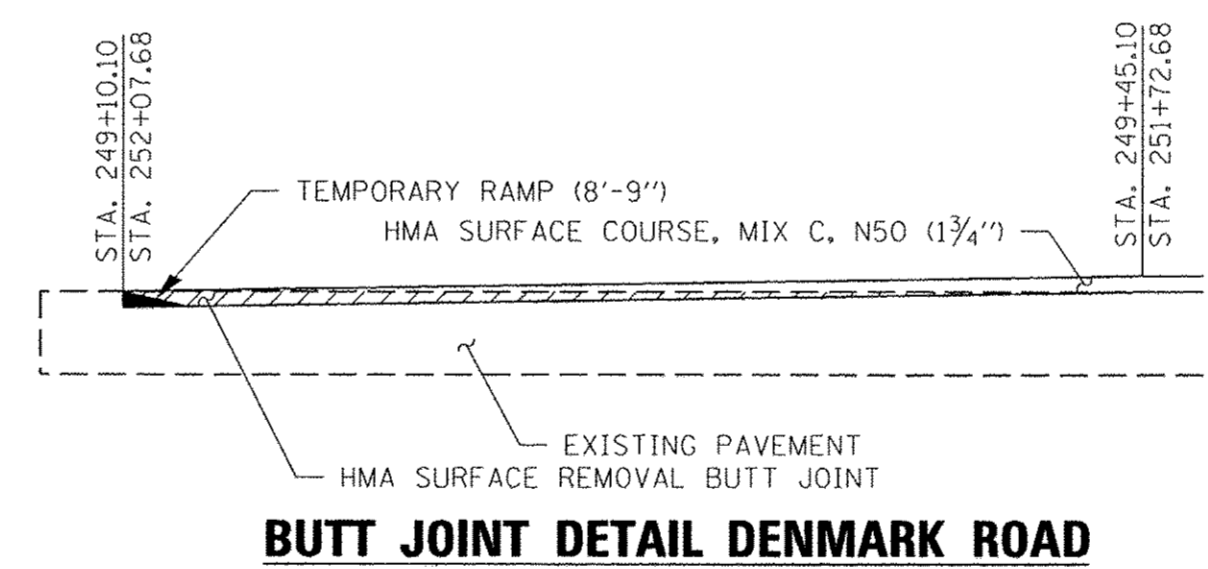
**CURVE #1  
 CURVE DATA**  
 P.I. STA. 12+30.83  
 $\Delta = 9^\circ 56' 25''$  (LT)  
 $D = 2^\circ 17' 31''$   
 $T = 217.41'$   
 $R = 2,500.00'$   
 $L = 433.73'$   
 $E = 9.44'$   
 $S.E. = 4.3\%$   
 TRANSITION  
 STA. 09+91.29 TO STA. 10+89.93  
 STA. 13+97.55 TO STA. 16+16.91  
 PC STA. 10+13.42  
 PT STA. 14+47.15



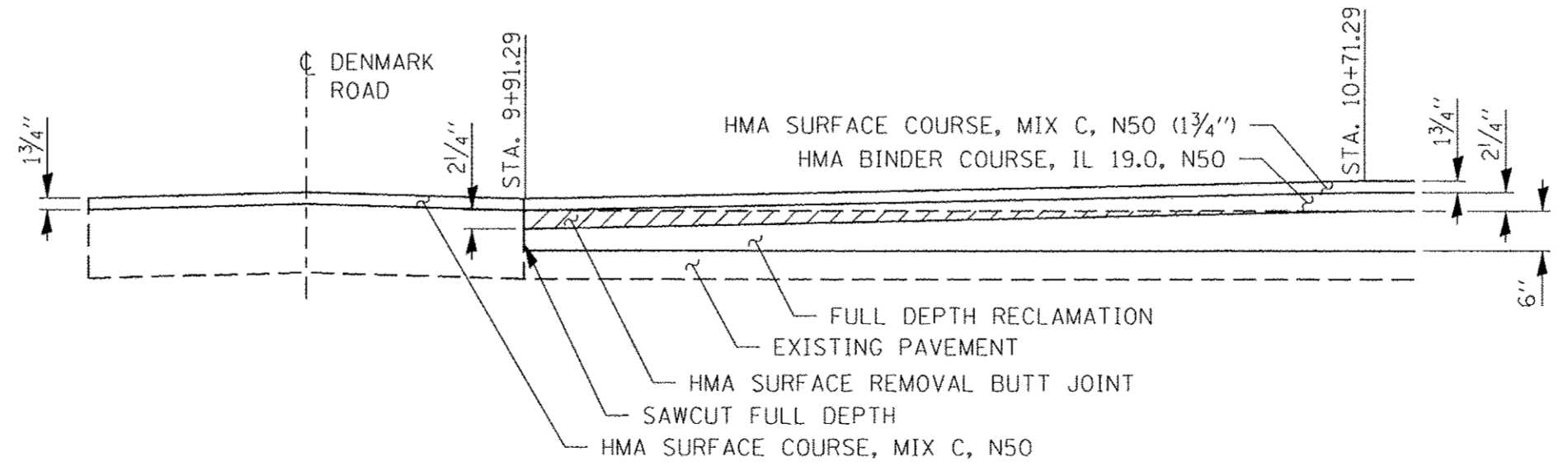
DETAIL "A"



DETAIL "B"



BUTT JOINT DETAIL DENMARK ROAD

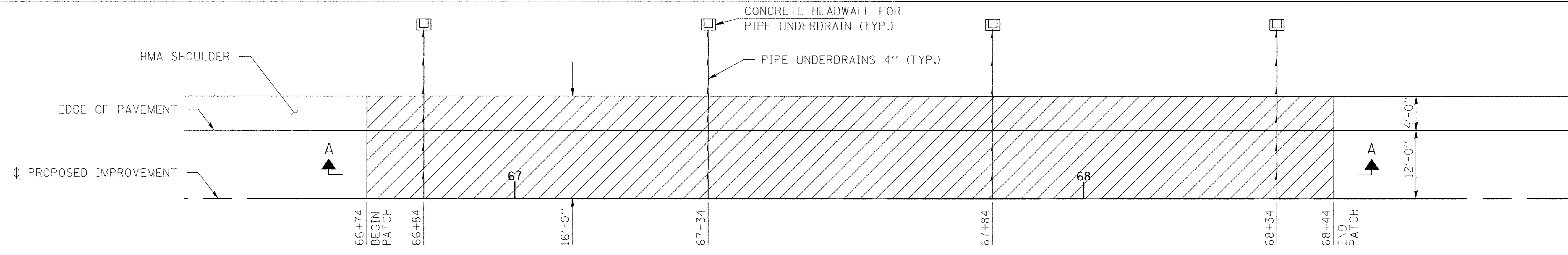


BUTT JOINT DETAIL INTERSECTION WEST NEWELL ROAD / DENMARK ROAD

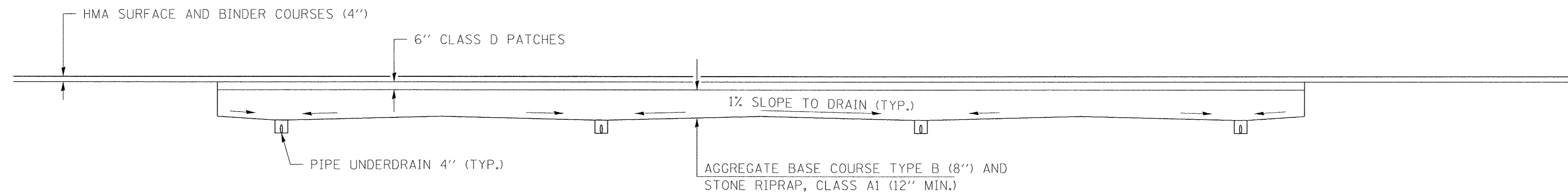
POINT NUMBER	F.A.S. 1511		DENMARK ROAD		ELEVATION
	STATION	OFFSET	STATION	OFFSET	
1	9+77.075	71.527' RT	249+45.106	11.000' RT	653.79
2	9+79.779	61.912' RT	249+55.060	11.831' RT	653.88
3	9+84.040	52.878' RT	249+64.738	14.303' RT	653.98
4	9+89.740	44.676' RT	249+73.872	18.345' RT	654.07
5	9+96.723	37.533' RT	249+82.209	23.847' RT	654.16
6	10+04.793	27.183' RT	249+89.517	30.655' RT	654.25
7	10+13.725	27.183' RT	249+95.595	38.582' RT	654.35
8	10+22.212	24.434' RT	249+99.934	46.472' RT	654.44
9	10+31.801	21.917' RT	250+04.289	55.474' RT	654.53
10	10+41.467	19.680' RT	250+08.418	64.581' RT	654.62
11	10+51.201	17.725' RT	250+12.318	73.789' RT	654.72
12	10+60.994	16.055' RT	250+15.986	83.091' RT	654.81
13	10+70.837	14.670' RT	250+19.421	92.483' RT	654.90
14	10+80.720	13.573' RT	250+22.620	101.957' RT	654.99
15	10+90.635	12.763' RT	250+25.581	111.508' RT	655.09
16	11+00.571	12.243' RT	250+28.303	121.130' RT	655.18
17	11+10.520	12.013' RT	250+30.783	130.818' RT	655.27
18	11+13.463	12.000' RT	250+31.470	133.694' RT	655.29
19	10+18.869	153.485' LT	251+73.169	11.000' RT	659.20
20	10+18.068	146.885' LT	251+66.622	11.084' RT	658.72
21	10+17.091	136.928' LT	251+56.777	11.525' RT	658.57
22	10+16.384	126.951' LT	251+46.964	12.344' RT	658.19
23	10+15.945	116.960' LT	251+37.202	13.539' RT	657.81
24	10+15.771	106.961' LT	251+27.507	15.108' RT	657.43
25	10+15.858	96.962' LT	251+17.876	17.046' RT	657.05
26	10+16.204	86.968' LT	251+08.128	19.278' RT	656.67
27	10+16.804	76.985' LT	250+98.439	21.752' RT	656.29
28	10+17.656	67.039' LT	250+88.816	24.468' RT	655.91
29	10+19.473	57.190' LT	250+79.507	28.091' RT	655.54
30	10+22.914	47.786' LT	250+70.929	33.207' RT	655.16
31	10+27.867	39.064' LT	250+63.318	39.676' RT	654.78
32	10+34.185	31.256' LT	250+56.886	47.318' RT	654.69
33	10+41.688	24.569' LT	250+51.811	55.921' RT	654.66
34	10+50.172	19.178' LT	250+48.234	65.247' RT	654.63
35	10+59.408	15.225' LT	250+46.253	75.037' RT	654.60
36	10+69.155	12.811' LT	250+45.923	85.020' RT	654.57
37	10+79.160	12.000' LT	250+47.255	94.919' RT	654.54

DESIGN VEHICLE - WHEEL BASE 55

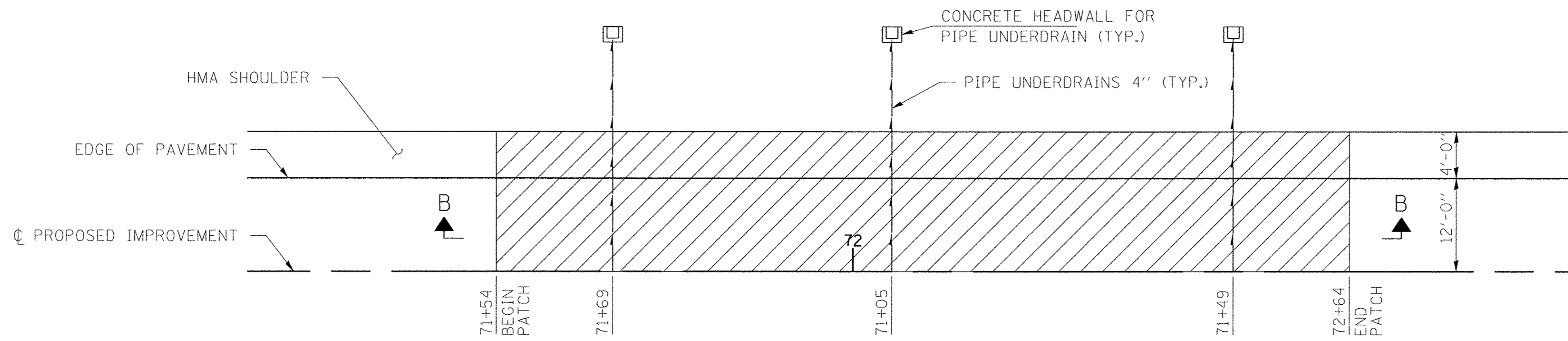




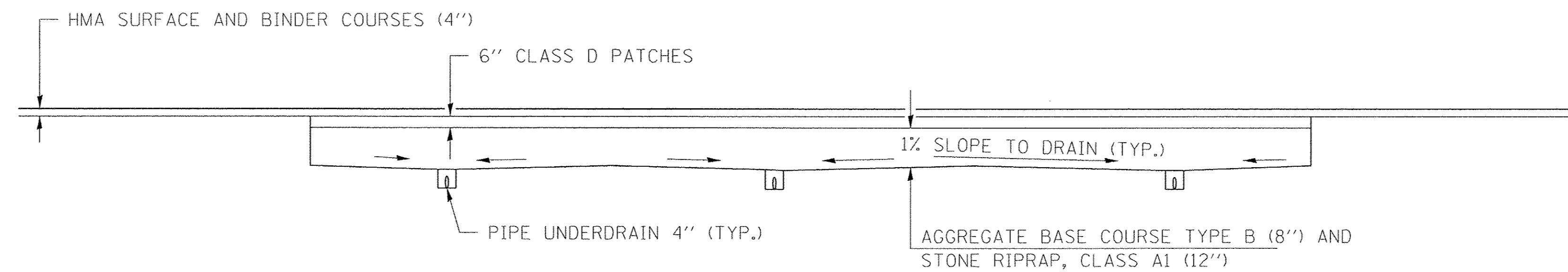
PLAN - PAVEMENT PATCH 1



SECTION A-A



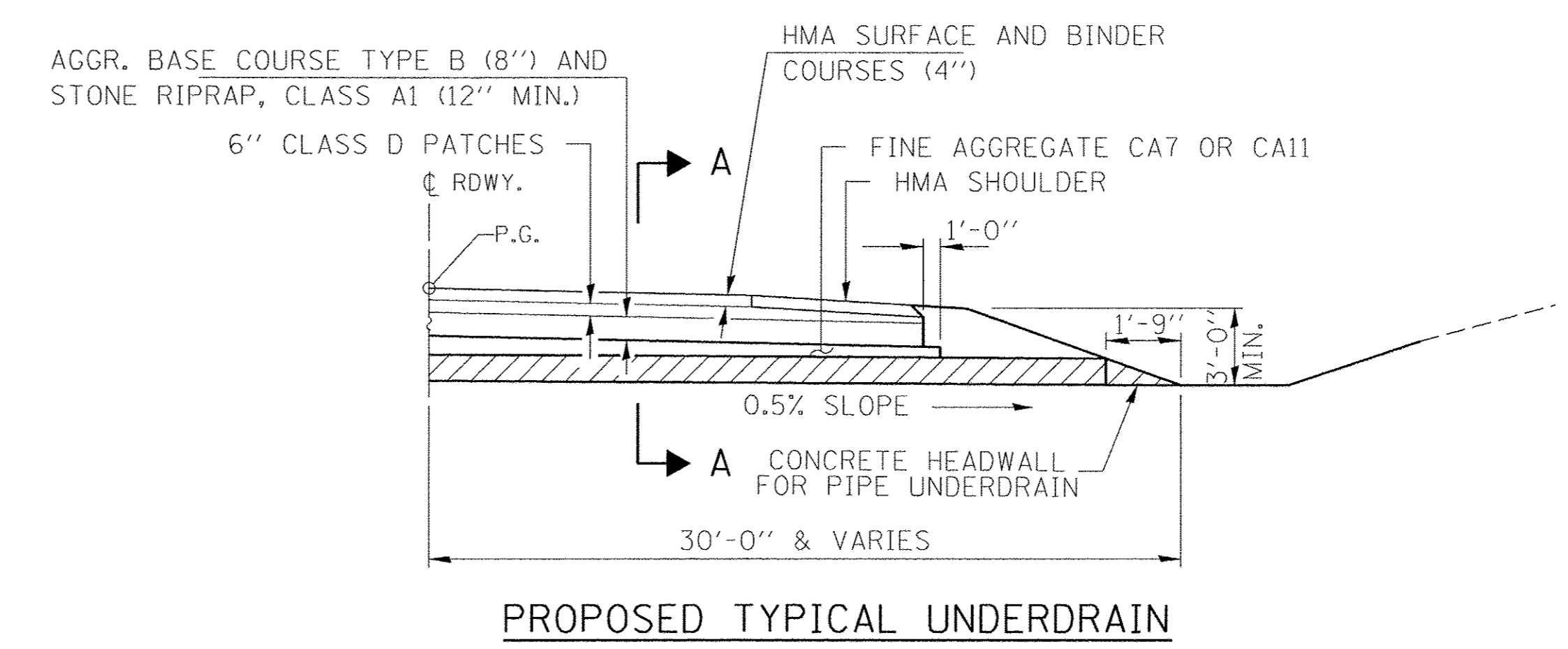
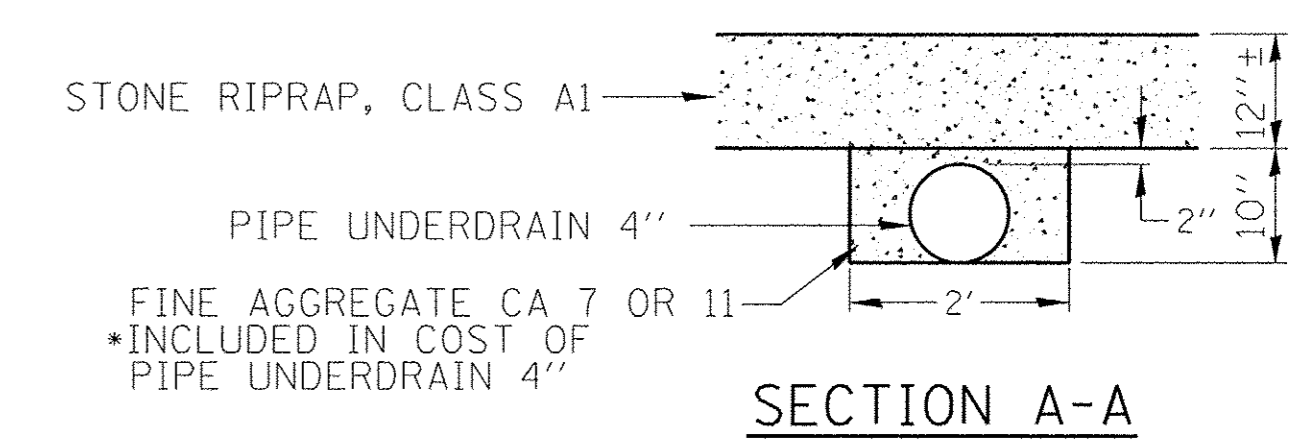
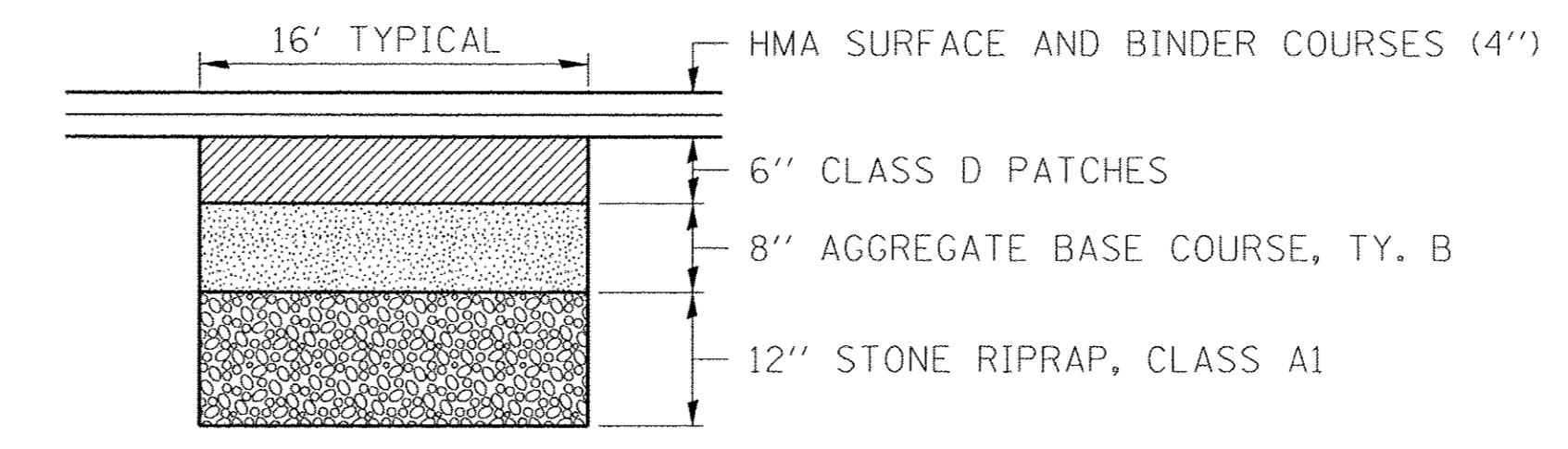
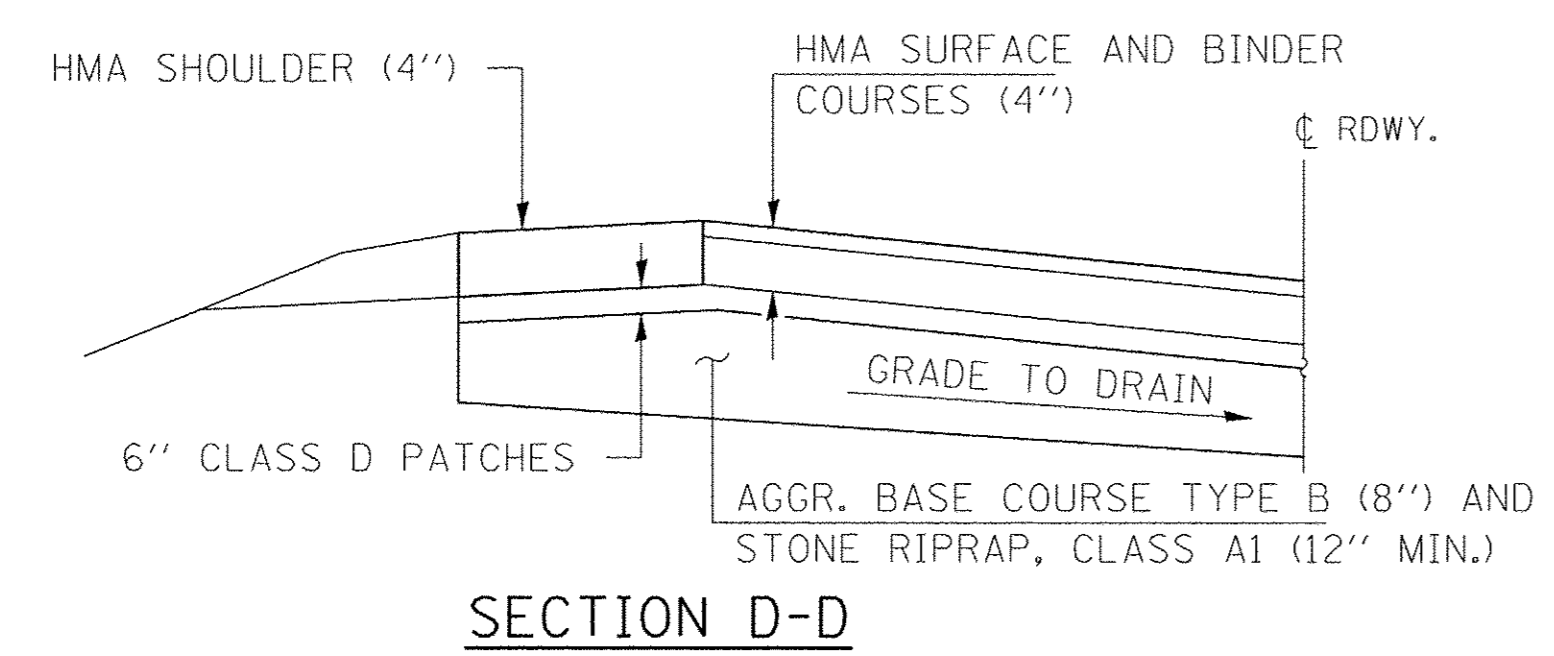
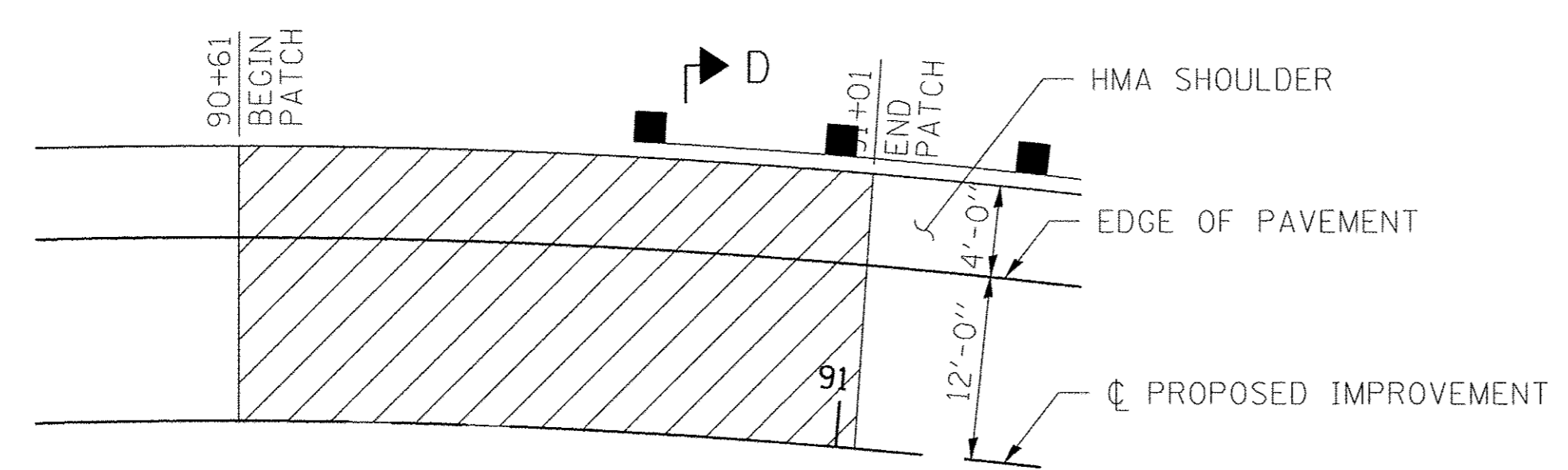
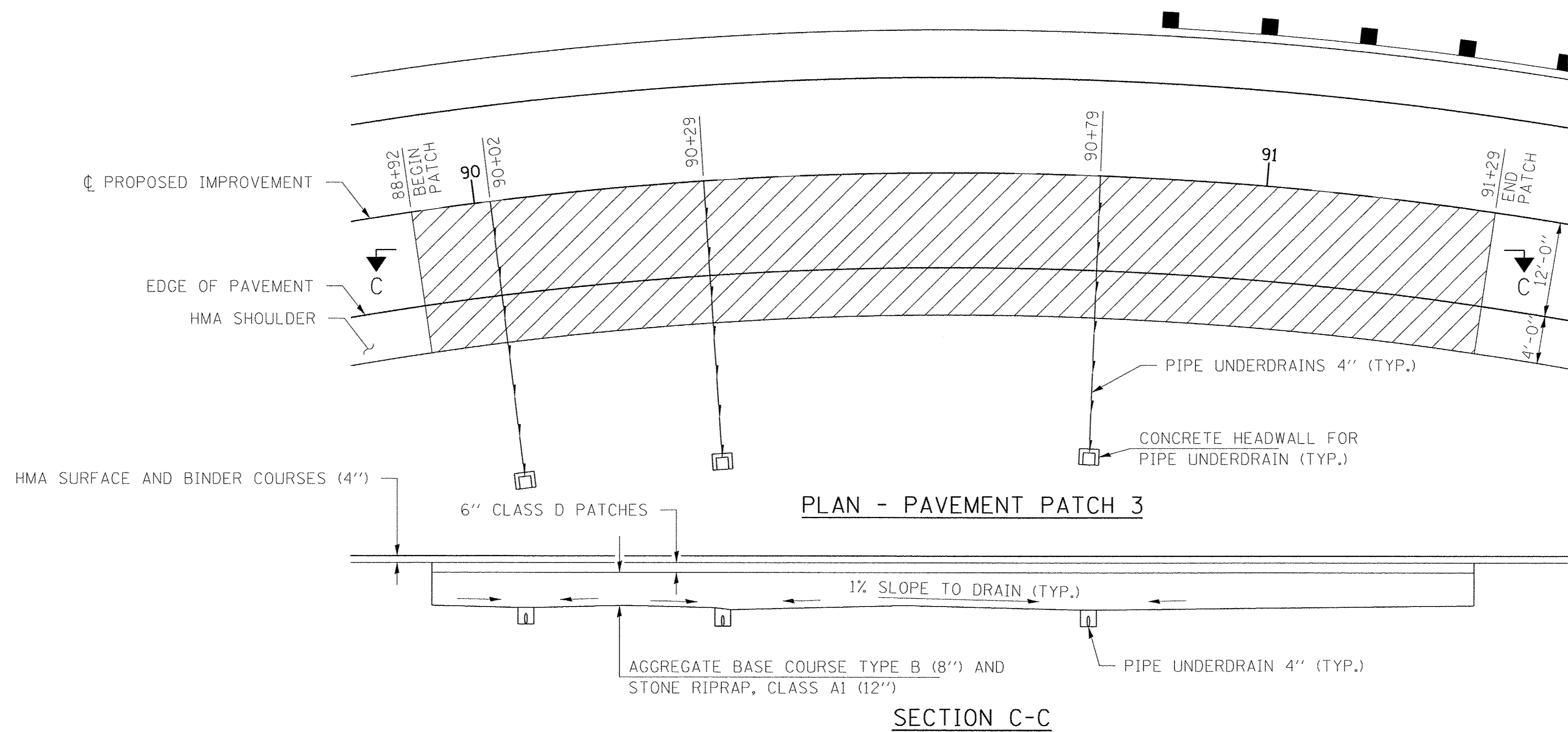
PLAN - PAVEMENT PATCH 2



SECTION B-B

SEE SHT. 18 FOR DETAILS

FILE NAME = 140023-sht-pavepatch.dgn HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS/PE/SE CORP. 184.000969	USER NAME = #USER#	DESIGNED - J.W.F. DRAWN - D.A.B. CHECKED - S.W.M. DATE - 01/26/17	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>VERMILION COUNTY HIGHWAY DEPARTMENT</b>	<b>PAVEMENT PATCHING DETAIL</b>		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE# PLOT DATE = 2/24/2017	SCALE: NONE	SHEET NO. 1 OF 2 SHEETS		STA.	TO STA.	1511	13-00203-00-RS	VERMILION	19	17



FILE NAME = 14023-sht-pavepatch.dgn	USER NAME = #USER#	DESIGNED - J.W.F.	REVISED -
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000998	PLOT SCALE = #SCALE#	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 2/24/2017	CHECKED - S.W.M.	REVISED -
		DATE - 01/26/17	REVISED -

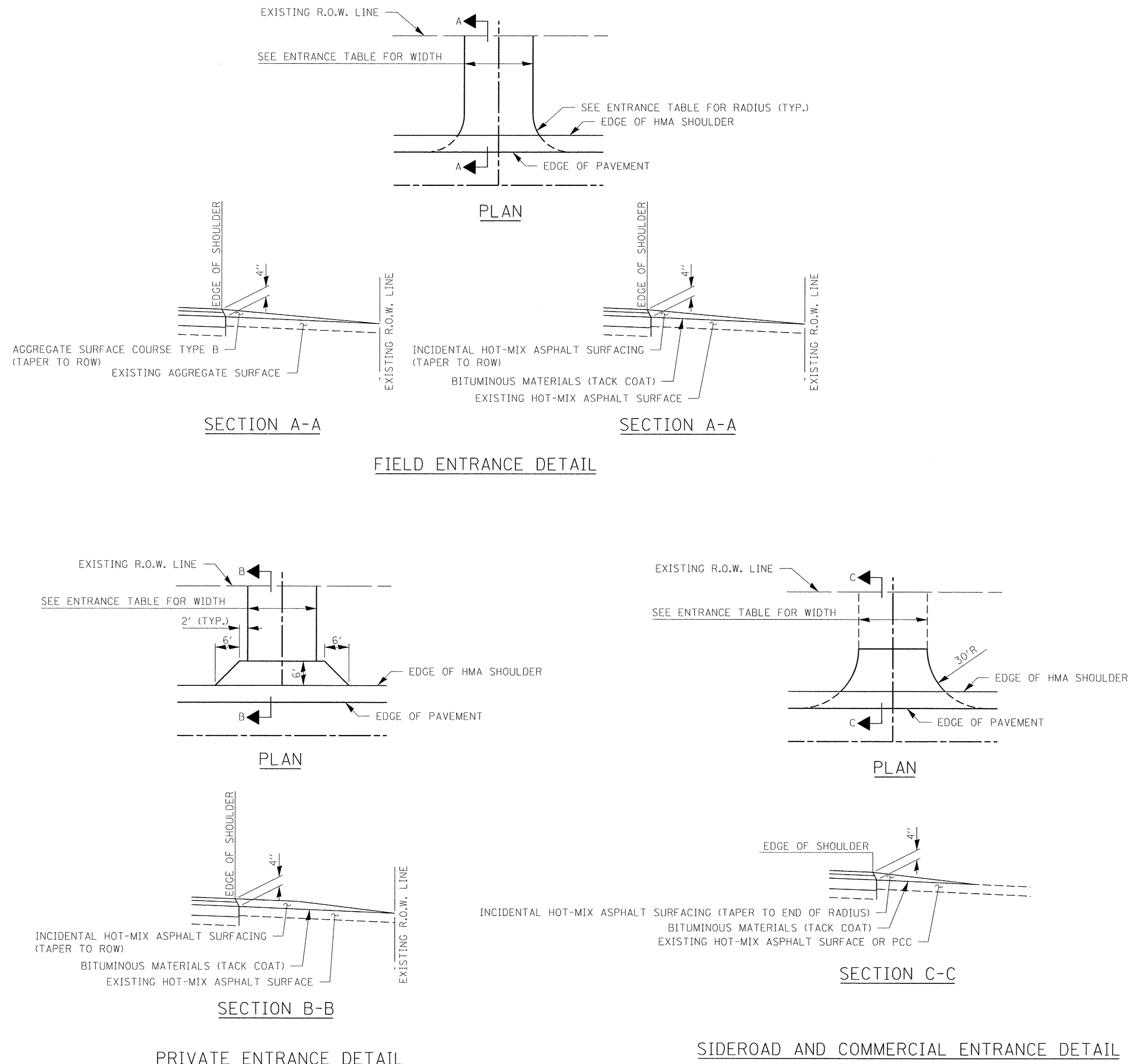
**STATE OF ILLINOIS  
VERMILION COUNTY HIGHWAY DEPARTMENT**

**PAVEMENT PATCHING DETAIL**

SCALE: NONE    SHEET NO. 2 OF 2 SHEETS    STA.    TO STA.

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1511	13-00203-00-RS	VERMILION	19	18
WEST NEWELL ROAD / C.H. 20		CONTRACT NO. 91545		
ILLINOIS		FED. AID PROJECT RS-0183(323)		





SIDE ROAD AND ENTRANCE SCHEDULE												
STATION	TYPE	EXISTING SURFACE	WIDTH	RADIUS	LENGTH	AGGREGATE SURFACE COURSE TYPE B	BITUMINOUS MATERIALS (TACK COAT)	INCIDENTAL HOT-MIX ASPHALT SURFACING				
						40200800	40600290	40800050				
						TON	POUND	TON				
<b>ENTRANCES</b>												
16+69.00	LT	PE	HMA	12				23	6			
17+75.00	RT	PE	HMA	12				17	4			
18+49.00	LT	FE	AGG	14	15	29	5					
25+85.00	RT	PE	HMA	12		24		17	4			
32+30.00	RT	PE	AGG	16		51	10					
32+75.00	LT	PE	AGG	16		54	11					
37+11.00	RT	PE	AGG	16		47	10					
49+24.00	LT	FE	AGG	16	25	32	6					
64+53.00	RT	PE	HMA	22		34		40	10			
65+33.00	LT	FE	AGG	12	15	34	5					
65+49.00	RT	PE	HMA	22		34		40	10			
76+03.00	RT	FE	AGG	12	15	34	5					
80+11.00	LT	FE	AGG	24	30	34	10					
102+58.00	RT	FE	HMA	16	25	44		35	9			
104+70.00	RT	FE	HMA	14	15	34		24	6			
104+70.00	LT	PE	HMA	12		24		17	4			
106+76.00	RT	PE	HMA	12		24		17	4			
107+20.00	RT	PE	HMA	12		24		17	4			
109+77.00	RT	FE	HMA	14	15	44		31	8			
111+37.00	RT	PE	HMA	12		29		20	5			
111+69.00	LT	PE	HMA	12		17		13	3			
115+17.00	LT	PE	HMA	12		17		13	3			
115+64.00	LT	PE	HMA	12		17		13	3			
115+67.00	RT	PE	HMA	12		29		20	5			
117+42.00	RT	PE	HMA	12		24		17	4			
118+71.00	RT	PE	HMA	12		24		17	4			
119+50.00	RT	PE	HMA	12		24		17	4			
121+06.00	RT	CE	PCC	35	30	30		35	9			
<b>SIDE ROADS</b>												
24+81.59	LT	SR	HMA	30	30	30		60	15			
26+42.70	LT	SR	HMA	20	30	30		56	14			
51+57.98	LT	SR	HMA	20	30	30		57	14			
100+50.11	RT	SR	HMA	20	30	30		45	11			
<b>TOTAL</b>										62	661	163