

04-25-14 LETTING ITEM 047

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 322 (US 51)
SECTION 54B-3, 54B-2
PROJECT ACNHPP-0322 (100)
BRIDGE SUPERSTRUCTURE REPLACEMENTS
TRIBUTARY OF LONG POINT CREEK 1.8 MILES
NORTH OF WAPELLA
DEWITT COUNTY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	1
		ILLINOIS	CONTRACT NO. 70606	

D-95-120-06



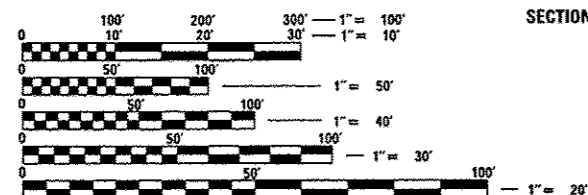
FOR INDEX OF SHEETS, SEE SHEET NO. 2

OTHER PRINCIPAL ARTERIAL

ADT = 10,600 (2011)

SU = 4.0%, MU = 9.1%

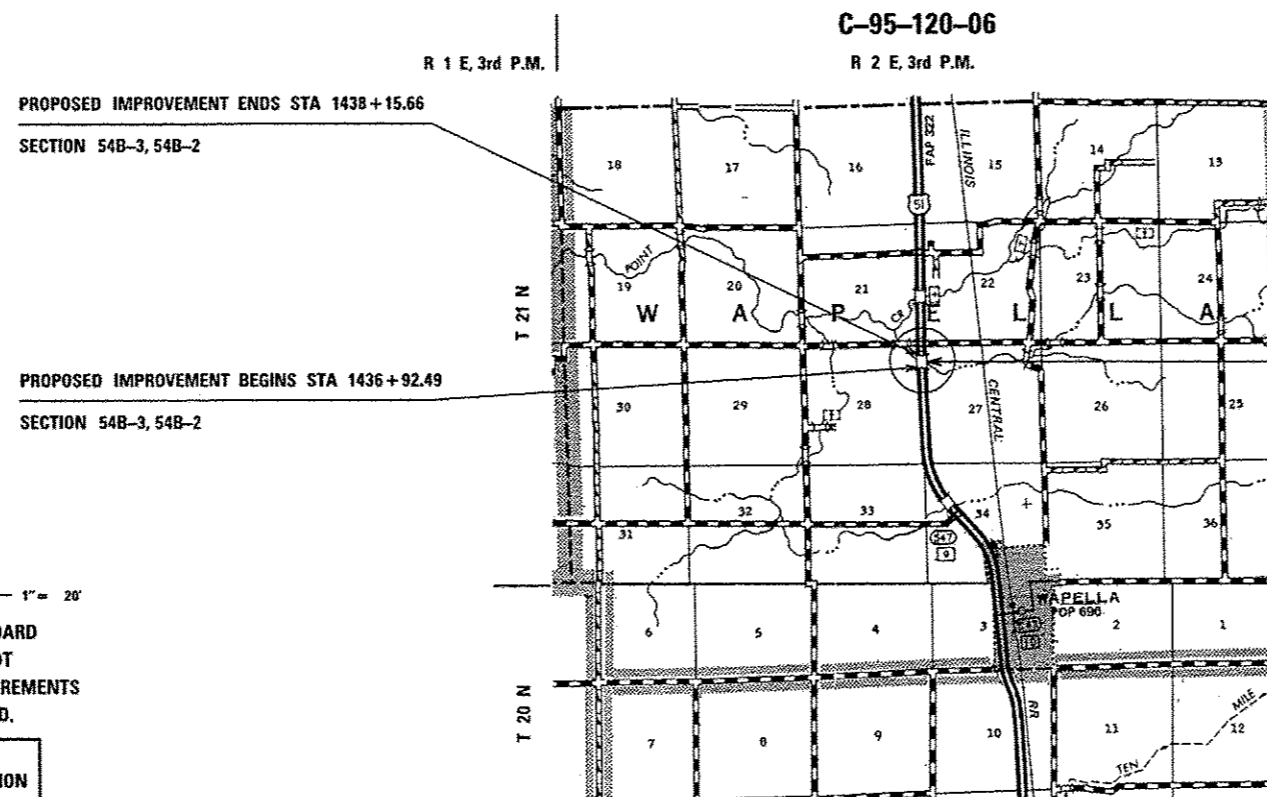
PC = 86.9%



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.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123 WAPELLA TOWNSHIP
OR 811

PROJECT ENGINEER: JASON W. STULTS
PROJECT MANAGER: RUSTIN B. KEYS
PROJECT DESIGNER: DAVID F. JAYME
PHONE NUMBER: 217-465-4181
CONTRACT NO. 70606



GROSS LENGTH = 123.17 FT. = 0.023 MILE
NET LENGTH = 123.17 FT. = 0.023 MILE



PROPOSED SUPERSTRUCTURE REPLACEMENTS
EX S.N. 020-0046 (NB), S.N. 020-0047 (SB)
STA. 1437+48.50 (NB), STA. 1437+53.04 (SB)
SINGLE SPAN 64'-0" B-B ABUTMENTS (NB), 64'-5" B-B ABUTMENTS (SB)
HORIZ. CLR = 41'-4" (NB), 41'-5" (SB)
SKEW = 0 DEGREES (NB), 6 DEGREES 30 MINUTES (SB)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JANUARY 31, 2014

Joseph E. Crowe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 21, 2014
John D. Baranzelli, PE, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

March 21, 2014
Omer Osman, PE, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, LIST OF HIGHWAY STANDARDS, & GENERAL NOTES
3-6	SUMMARY OF QUANTITIES
7-10	TYPICAL SECTIONS
11-15	SCHEDULE OF QUANTITIES
16	ALIGNMENT TIES
17-20	PLAN / PROFILE SHEETS
21	STAGING NOTES
22-29	STAGE I DETAILS
30-37	STAGE II DETAILS
38-40	WIDTH RESTRICTION SIGNAGE DETAILS
41	CURB REMOVAL DETAIL
42	PCC BRIDGE SHOULDER PAVEMENT DETAIL
43	WINGWALL RIPRAP DETAIL
44	PAVEMENT MARKING AND MARKERS (INTERSTATE & MULTILANE APPLICATIONS) DETAILS
45-54	SN 020-0046 BRIDGE PLANS
55-71	SN 020-0047 BRIDGE PLANS
72-89	CROSS SECTION SHEETS

LIST OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATES FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-09	TRAFFIC BARRIER TERMINAL, TYPE 2
631032-08	TRAFFIC BARRIER TERMINAL, TYPE 6A
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701101-04	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701400-07	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-09	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701406-08	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-08	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701426-06	LANE CLOSURE, MULTILANE, INTERMITTANT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701901-03	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
780001-04	TYPICAL PAVEMENT MARKINGS

GENERAL NOTES

G.N. - 100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N. - 100A

ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G.N. - 105.09A

ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N. - 280

TEMPORARY EROSION CONTROL SEEDING IS INCLUDED IN THIS CONTRACT TO SEED DISTURBED EARTH DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE TEMPORARY EROSION CONTROL SEEDING WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING ON EARTH AT THE TIME OF THEIR COMPLETION.

G.N. - 406

THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G.N. - 406H

MIXTURE REQUIREMENTS	
Location(s):	US 51
Mixture Use(s):	SURFACE COURSE
AC/PG:	PG 64-22
RAP %: (Max)	10%
Design Air Voids:	4% @ Density = 90
Mixture Composition: (Gradation Mixture)	IL-9.5
Friction Aggregate:	MIX "D"

G.N. - 504SPL

USE PREPLACED AGGREGATE AND EPOXY RESIN BINDER SYSTEM (EPOXY SYSTEM) IN ACCORDANCE WITH THE SPECIAL PROVISION SHEAR KEYS FOR PRECAST, PRESTRESSED CONCRETE DECK BEAMS ON S.N. 020-0046 (US 51 NORTHBOUND) ONLY.

G.N. - 542

BEFORE ORDERING PIPE CULVERTS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR THE EXACT LENGTHS.

G.N. - 542.07

AT LOCATIONS WHERE END SECTIONS ARE SPECIFIED, CAST-IN-PLACE CONCRETE HEADWALLS WILL NOT BE ALLOWED.

G.N. - 609

PRIOR TO ROUTING TRAFFIC ONTO THE SHOULDERS AS SHOWN IN THE STAGING PLANS, THE CONTRACTOR SHALL SECURE THE GRATINGS ON SHOULDER INLETS AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

G.N. - 1004.01

COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

COMMITMENTS

THERE ARE NO COMMITMENTS ON THIS PROJECT

FILE NAME :	USER NAME : jaynedf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS & LIST OF HIGHWAY STANDARDS	F.A.P. R.I.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
d:\p-work\p\p\dot\jaynedf\02291813\097025-ght-ganno\tdgn	DRAWN - DFJ	REVISÉ -	322			54B-3, 54B-2	DEWITT	89	2	
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISÉ -	CONTRACT NO. 70606							
PLOT DATE = 11/31/2014	DATE -	REVISÉ -	SCALE:			SHEET 001 OF 001 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

TOTAL QUANTITY
 DEWITT CO.
 FAP 322 RURAL MULTILANE
 80% FED. / 20% STATE
 BRIDGE
 0014
 SN 020-0046 / SN 020-0047

CODE NO.	ITEM	UNIT	
20400800	FURNISHED EXCAVATION	CU YD	40
25000210	SEEDING, CLASS 2A	ACRE	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	22.5
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	22.5
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	22.5
25100115	MULCH, METHOD 2	ACRE	0.25
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	25
28000305	TEMPORARY DITCH CHECKS	FOOT	130
28000400	PERIMETER EROSION BARRIER	FOOT	633
28000500	INLET AND PIPE PROTECTION	EACH	2
28100105	STONE RIPRAP, CLASS A3	SD YD	32
40603345	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	75
42001500	P. C. CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT	SD YD	29
44000300	CURB REMOVAL	FOOT	187
*	SPECIALTY ITEMS		

*
14

FILE NAME *	USER NAME * jaymedf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
or\pcc\work\pvidot\jaymedf\id291813\05704828-ahh-500.dgn	DRAWN - DFJ	REVISED -	322			54B-3, 54B-2	DEWITT	89	3	
MODELNAME*	PLT SCALE = 40,000' / in.	CHECKED -	REVISED -			CONTRACT NO. 70606		ILLINOIS FED. AID PROJECT		
	PLT DATE = 1/30/2014	DATE -	REVISED -	SCALE:	SHEET 001 OF 004 SHEETS	STA.	TO STA.			

SUMMARY OF QUANTITIES

TOTAL QUANTITY
 DEWITT CO.
 FAP 322 RURAL MULTILANE
 80% FED. / 20% STATE
 BRIDGE
 0014
 SN 020-0046 / SN 020-0047

CODE NO.	ITEM	UNIT	
48101200	AGGREGATE SHOULDER, TYPE B	TON	43
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	2
50102400	CONCRETE REMOVAL	CU YD	1.1
50105220	PIPE CULVERT REMOVAL	FOOT	36
50300225	CONCRETE STRUCTURES	CU YD	1.2
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	5282
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	80
50901050	STEEL RAILING, TYPE SM	FOOT	252
51500100	NAME PLATES	EACH	2
542A1057	PIPE CULVERTS, CLASS A, TYPE 2 12"	FOOT	30
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	594
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	1446
60262700	INLETS TO BE RECONSTRUCTED	EACH	1
*	SPECIALTY ITEMS		

*

14

SUMMARY OF QUANTITIES

TOTAL QUANTITY
 DEWITT CO.
 FAP 322 RURAL MULTILANE
 80% FED. / 20% STATE
 BRIDGE
 0014
 SN 020-0046 / SN 020-0047

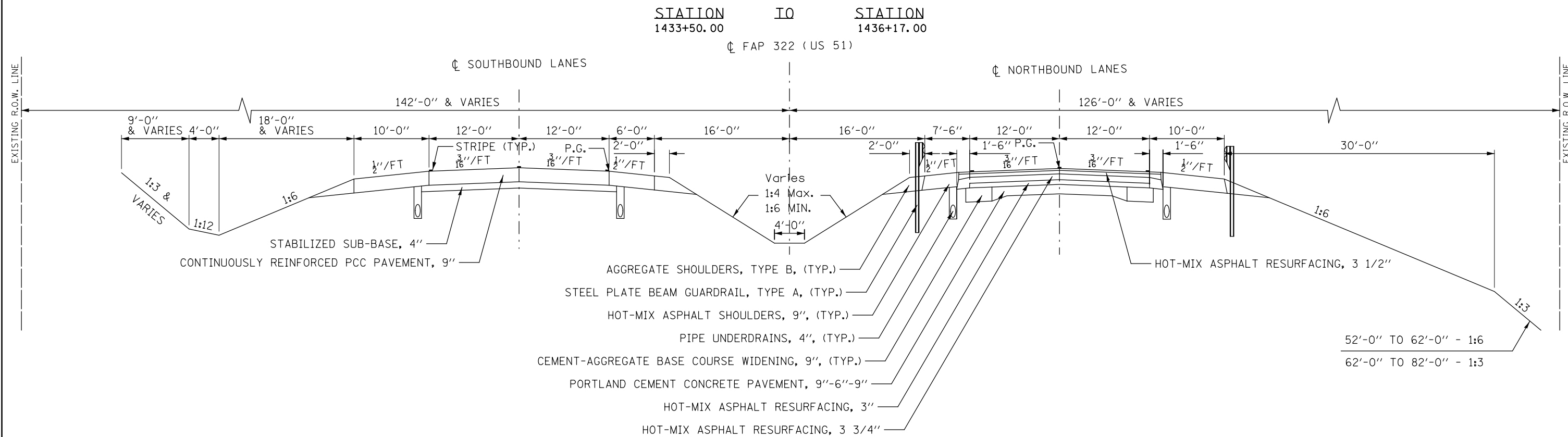
CODE NO.	ITEM	UNIT	QUANTITY
* 6300001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	750
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	4
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	8
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	1328
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	7
67100100	MOBILIZATION	L SUM	1
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3035
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	4423
70400100	TEMPORARY CONCRETE BARRIER	FOOT	575
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	575
* 70400200	SPECIALTY ITEMS		

SUMMARY OF QUANTITIES

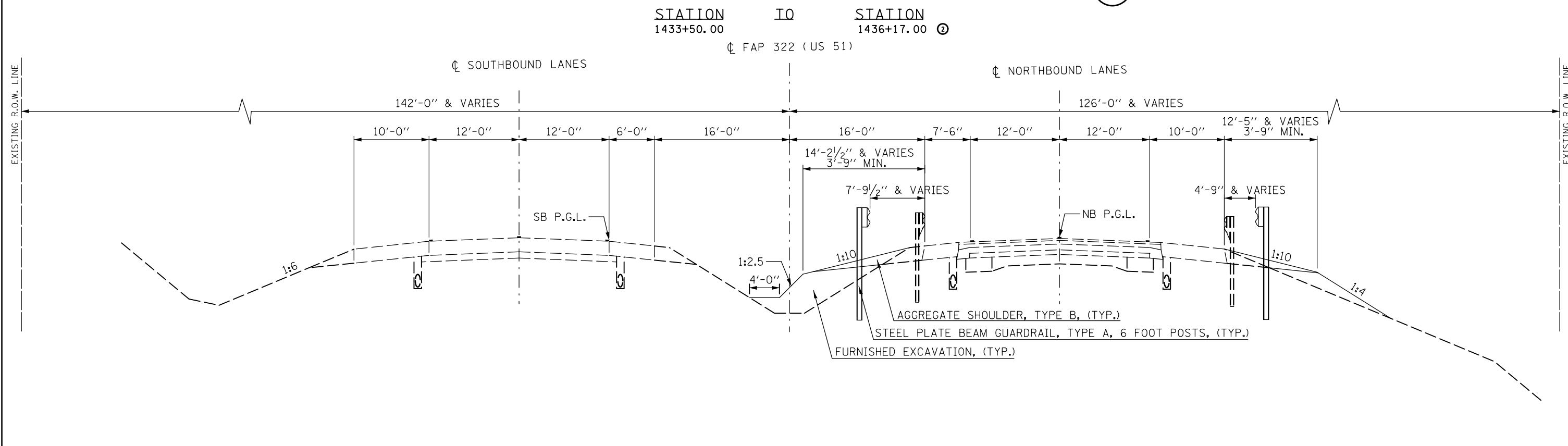
TOTAL QUANTITY
 DEWITT CO.
 FAP 322 RURAL MULTILANE
 80% FED. / 20% STATE
 BRIDGE
 0014
 SN 020-0046 / SN 020-0047

CODE NO.	ITEM	UNIT	QUANTITY
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3035
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	22
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
78300100	PAVEMENT MARKING REMOVAL	SQ FT	969
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	14
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1
Z0001495	BRIDGE APPROACH SHOULDER REMOVAL	SQ YD	29
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	11
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	72
Z0073700	TEMPORARY WALL BRACING SYSTEM	L SUM	1
* 12	SPECIALTY ITEMS		

EXISTING TYPICAL ROADWAY CROSS SECTION

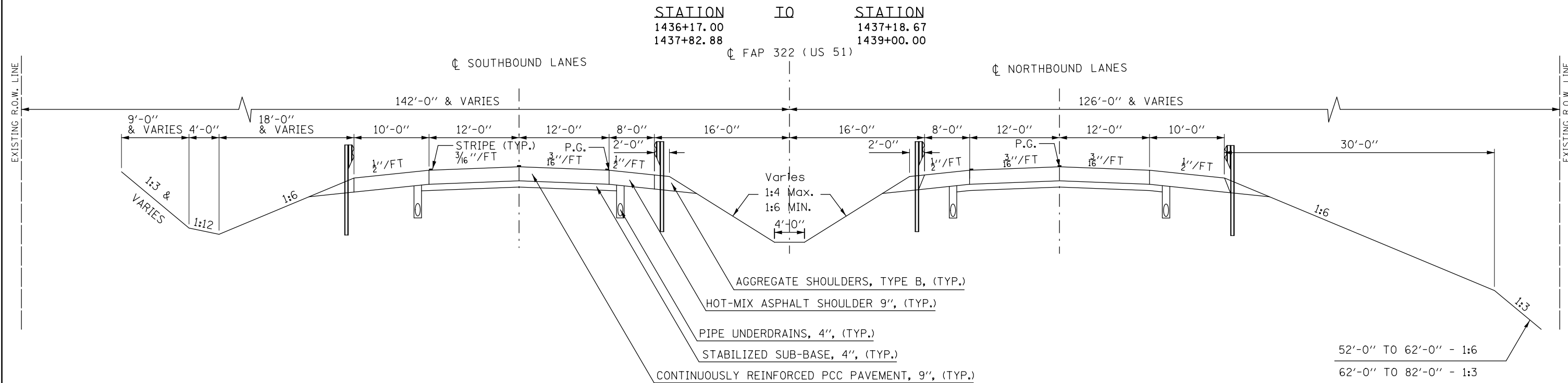


PROPOSED TYPICAL ROADWAY CROSS SECTION 1

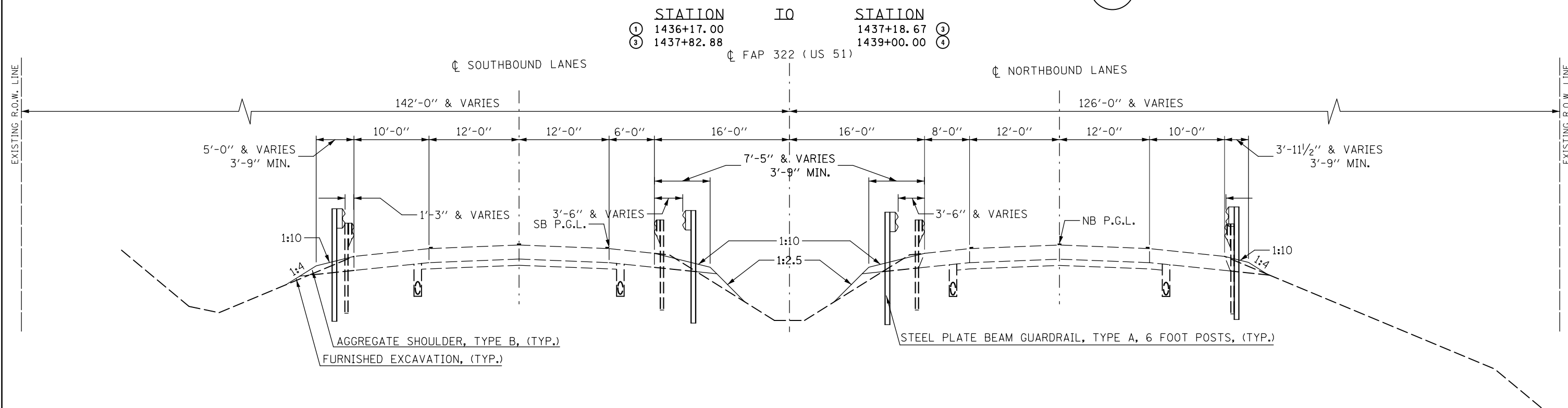


FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pwwork\pwwork\jaymedf\d0291813\05700006-sh-t-Typicals.dgn	DRAWN - DFJ	REVISED -	322			54B-3, 54B-2	DEWITT	89	7	
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 70606							
MODELNAME	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

EXISTING TYPICAL ROADWAY CROSS SECTION



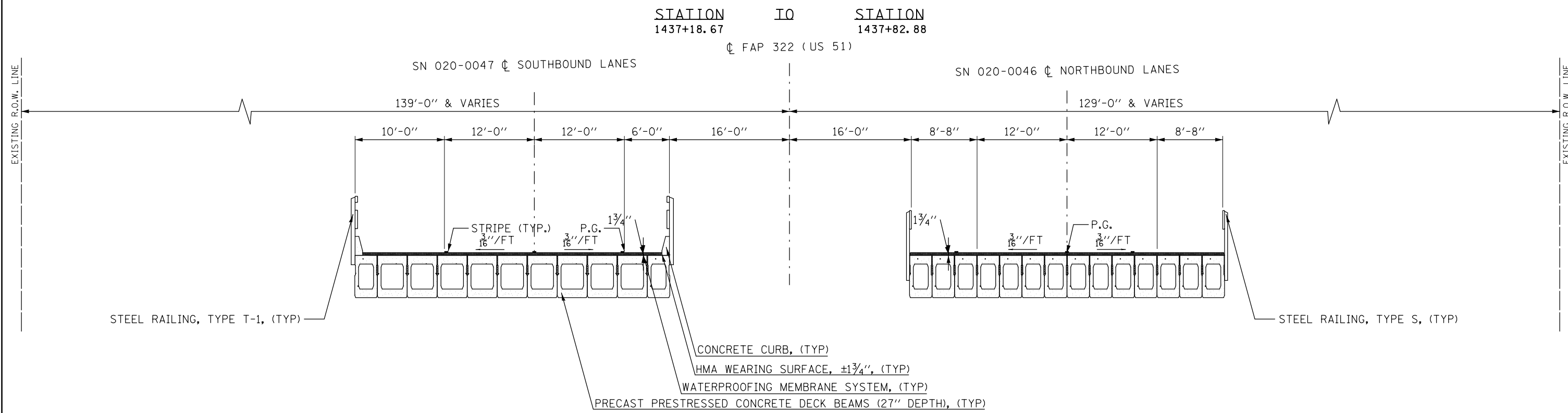
PROPOSED TYPICAL ROADWAY CROSS SECTION 2



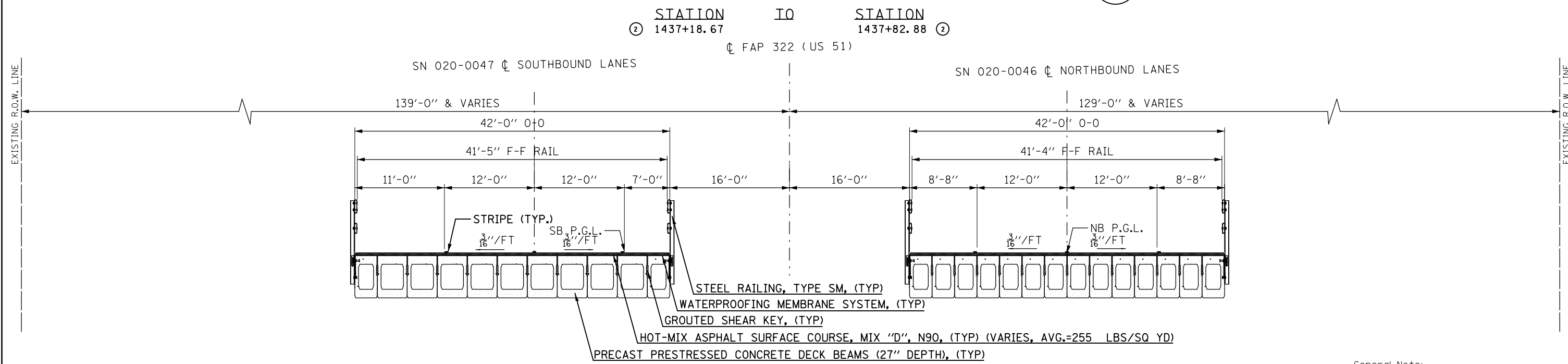
FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pwork\pwork\jaymedf\d0291813\057006-sh-t-Typicals.dgn	DRAWN - DFJ	REVISED -	322			54B-3, 54B-2	DEWITT	89	8	
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 70606							
*MODELNAME#	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

SCALE: SHEET 002 OF 004 SHEETS STA. TO STA.

EXISTING TYPICAL BRIDGE DECK CROSS SECTION



PROPOSED TYPICAL BRIDGE DECK CROSS SECTION 3



General Note:

Use Preplaced Aggregate and Epoxy Resin Binder System (Epoxy System) in accordance with special provision 'SHEAR KEYS FOR PRECAST, PRESTRESSED CONCRETE DECK BEAMS' on S.N. 020-0046 (US 51 Northbound) only.

FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -
ei:\pwork\work\pwork\jaymedf\d0291813\057006\06-sh-t-Typicals.dgn		DRAWN - DFJ	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
#MODELNAME#	PLOT DATE = 1/31/2014	DATE -	REVISED -

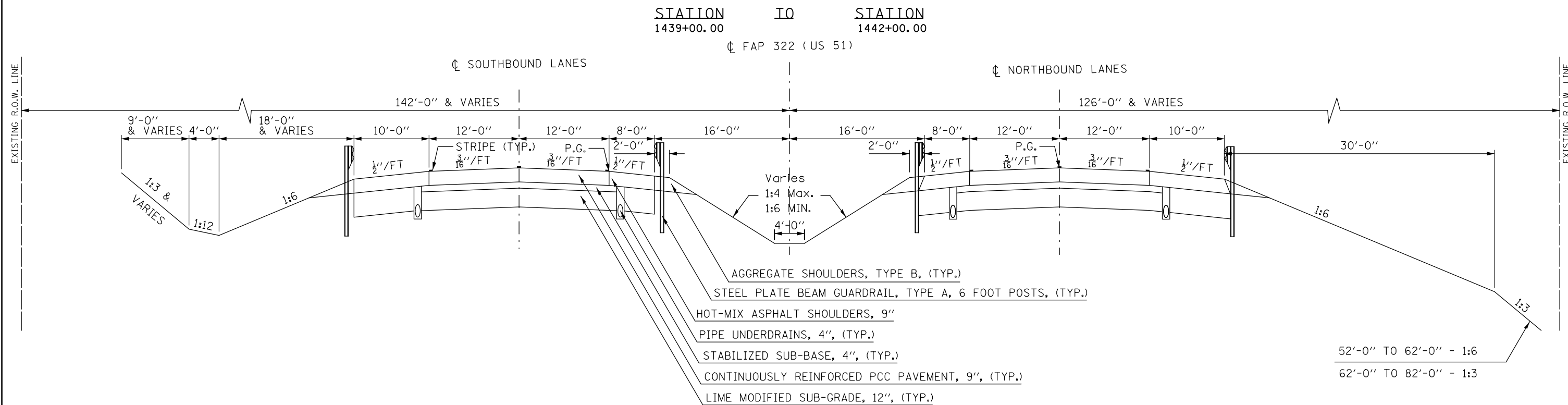
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED
 TYPICAL CROSS SECTIONS

SCALE: SHEET 003 OF 004 SHEETS STA. TO STA.

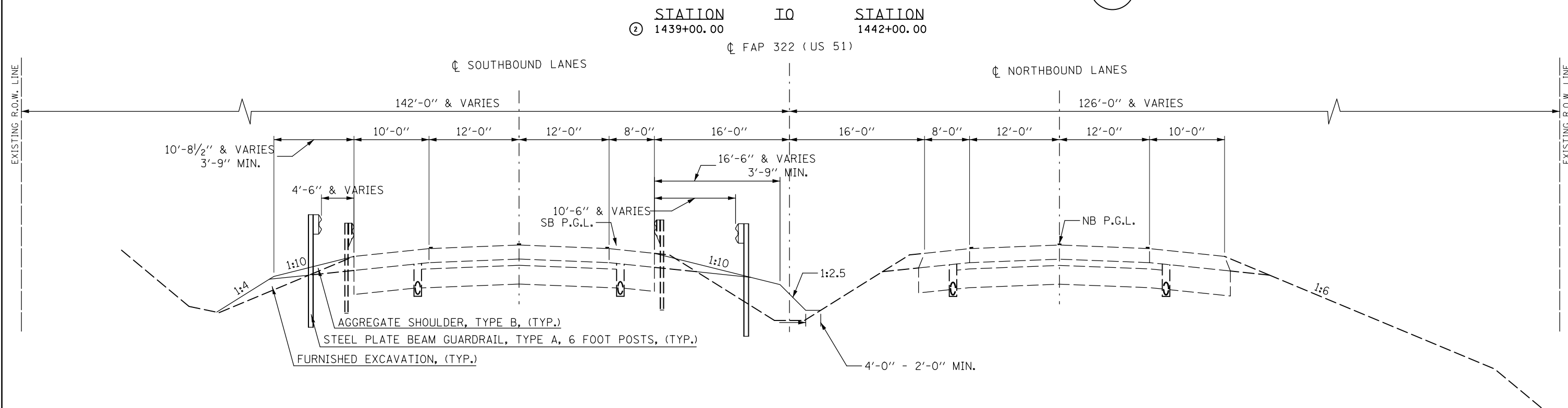
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	9
CONTRACT NO. 70606				
ILLINOIS FED. AID PROJECT				

EXISTING TYPICAL ROADWAY CROSS SECTION



PROPOSED TYPICAL ROADWAY CROSS SECTION

4



FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pwork\work\pwork\jaymedf\d0291813\057006-sh-t-typicals.dgn	DRAWN - DFJ	REVISED -	322			54B-3, 54B-2	DEWITT	89	10	
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 70606							
MODELNAME	DATE -	REVISED -	SCALE:			SHEET 004 OF 004 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

EARTHWORK							
20200100				20400800			
PROFILE	OFFSET	STATION	TO STATION	EARTH EXCAVATION (CUT)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE *	EMBANKMENT (FILL)	FURNISHED EXCAVATION
				CU YD	CU YD	CU YD	CU YD
NORTHBOUND	LT	1434+00.00	1436+00.00			12.7	-12.7
NORTHBOUND	RT	1434+26.70	1434+86.50			1.6	-1.6
SOUTHBOUND	LT	1436+68.05	1437+04.01			2.5	-2.5
SOUTHBOUND	LT	1441+50.00	1442+00.00			0.7	-0.7
SOUTHBOUND	RT	1438+28.65	1440+75.67			20.2	-20.2
TOTAL				0	0	37.7	-37.7
USE				0	0	40	-40

* AN EARTH SHRINKAGE FACTOR OF 0.25 HAS BEEN APPLIED

TEMPORARY DITCH CHECKS		
28000305		
STATION	OFFSET	FOOT
1434+20.00	MEDIAN	12
1435+00.00	MEDIAN	12
1436+00.00	MEDIAN	14
1438+65.00	MEDIAN	11
1439+00.00	MEDIAN	11
1439+35.00	MEDIAN	11
1439+70.00	MEDIAN	11
1440+05.00	MEDIAN	12
1440+40.00	MEDIAN	12
1440+75.00	MEDIAN	12
1441+10.00	MEDIAN	12
TOTAL		130

PERIMETER EROSION BARRIER				
28000400				
PROFILE	OFFSET	STATION	TO STATION	FOOT
NORTHBOUND	RT	1434+00.00	1437+04.01	210
SOUTHBOUND	LT	1436+62.90	1437+04.01	41
SOUTHBOUND	LT	1438+17.66	1442+00.00	382
TOTAL				633

INLET AND PIPE PROTECTION			
28000500			
PROFILE	OFFSET	STATION	EACH
SOUTHBOUND	RT	1435+50.18	1
SOUTHBOUND	RT	1438+34.11	1
TOTAL			2

SEEDING, FERTILIZERS, MULCH, AND BLANKETS									
				25000210	25000400	25000500	25000600	25100115	28000250
PROFILE	OFFSET	STATION	TO STATION	SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2	TEMPORARY EROSION CONTROL SEEDING
				ACRE	POUND	POUND	POUND	ACRE	POUND
NORTHBOUND	LT	1434+00.00	1436+00.00	0.007	0.9	0.9	0.9	0.01	1
NORTHBOUND	RT	1434+26.70	1434+86.50	0.005	0.9	0.9	0.9	0.02	1
SOUTHBOUND	LT	1436+68.05	1437+04.01	0.003	4.5	4.5	4.5	0.05	5
SOUTHBOUND	LT	1441+50.00	1442+00.00	0.002	4.5	4.5	4.5	0.05	5
SOUTHBOUND	RT	1438+28.65	1440+75.67	0.014	0.9	0.9	0.9	0.02	1
TOTAL				0.031	11.7	11.7	11.7	0.15	13
USE				0.25	22.5	22.5	22.5	0.25	25

STONE RIPRAP, CLASS A3				
28100105				
PROFILE	OFFSET	STATION	TO STATION	SQ YD
NORTHBOUND	RT	1436+94.98	1437+09.99	8
NORTHBOUND	LT	1437+92.05	1438+07.05	8
SOUTHBOUND	LT	1437+01.03	1437+16.02	8
SOUTHBOUND	LT	1438+02.83	1438+17.92	8
TOTAL				32

NOTE: OFFSET is based on looking upstation per the given profile.

SCHEDULE OF QUANTITIES

P. C. CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT				
42001500				
PROFILE	OFFSET	STATION	TO STATION	SQ YD
NORTHBOUND	RT	1437+79.93	1438+09.63	29
TOTAL				29

PIPE CULVERT REMOVAL				
50105220				
PROFILE	OFFSET	STATION	TO STATION	FOOT
NORTHBOUND	LT	1437+95.99	1438+32.18	36
TOTAL				36

TRAFFIC CONTROL AND PROTECTION			
	70100207	70100420	70100700
PROFILE	STANDARD	STANDARD	STANDARD
	701402	701411	701406
FOOT	EACH	EACH	EACH
NORTHBOUND	1		1
SOUTHBOUND	1	2	0
TOTAL	2	2	1

CURB REMOVAL				
44000300				
PROFILE	OFFSET	STATION	TO STATION	FOOT
NORTHBOUND	LT	1436+92.49	1437+16.86	24
NORTHBOUND	LT	1437+79.92	1438+09.62	30
NORTHBOUND	RT	1436+93.76	1437+17.01	23
SOUTHBOUND	LT	1437+00.00	1437+25.05	25
SOUTHBOUND	LT	1437+88.50	1438+15.66	27
SOUTHBOUND	RT	1436+93.32	1437+20.48	27
SOUTHBOUND	RT	1437+84.00	1438+15.48	31
TOTAL				187

PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"			
54213657			
PROFILE	OFFSET	STATION	EACH
NORTHBOUND	MEDIAN	1438+02.62	1
TOTAL			1

INLETS TO BE RECONSTRUCTED			
60262700			
PROFILE	OFFSET	STATION	EACH
SOUTHBOUND	MEDIAN	1438+34.11	1

AGGREGATE SHOULDER, TYPE B				
48101200				
PROFILE	OFFSET	STATION	TO STATION	TON
NORTHBOUND	LT	1434+00.00	1436+50.00	5.8
NORTHBOUND	RT	1434+26.70	1434+86.50	1.9
NORTHBOUND	RT	1436+00.00	1436+98.75	0.4
SOUTHBOUND	LT	1436+62.90	1437+04.01	3.7
SOUTHBOUND	LT	1438+15.29	1442+00.00	15
SOUTHBOUND	RT	1438+28.65	1440+75.67	16.4
TOTAL				43.2
USE				43

GUARDRAIL REMOVAL				
63200310				
PROFILE	OFFSET	STATION	TO STATION	FOOT
NORTHBOUND	LT	1437+80.50	1438+07.93	25
NORTHBOUND	LT	1434+77.25	1437+16.21	238.25
NORTHBOUND	RT	1437+80.55	1438+08.05	25
NORTHBOUND	RT	1433+39.69	1437+16.23	375.75
SOUTHBOUND	LT	1436+97.91	1437+25.60	25
SOUTHBOUND	LT	1437+88.56	1441+65.38	375.75
SOUTHBOUND	RT	1436+93.10	1437+20.42	25
SOUTHBOUND	RT	1437+83.65	1440+10.79	238.25
TOTAL				1328

NOTE: OFFSET is based on looking upstation per the given profile.

SCHEDULE OF QUANTITIES

GUARDRAIL AND TERMINALS								
PROFILE	OFFSET	STATION	TO	STATION	63000001	63100045	63100087	63100169
					SPBGR, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 2	TRAFFIC BARRIER TERMINAL, TYPE 6A	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED
					FOOT	EACH	EACH	EACH
NORTHBOUND	RT	1434+60.16		1435+09.89				1
NORTHBOUND	LT	1434+72.48		1435+22.44				1
NORTHBOUND	LT	1435+22.44		1436+72.31	150			
NORTHBOUND	RT	1435+09.89		1436+72.38	162.5			
NORTHBOUND	LT	1436+72.31		1437+16.21			1	
NORTHBOUND	RT	1436+72.38		1437+16.28			1	
NORTHBOUND	LT	1437+80.50		1438+24.40			1	
NORTHBOUND	RT	1437+80.54		1438+24.44			1	
NORTHBOUND	LT	1438+24.40		1438+39.19		1		
NORTHBOUND	RT	1438+24.44		1438+39.23		1		
SOUTHBOUND	RT	1436+62.92		1436+76.52		1		
SOUTHBOUND	LT	1436+68.02		1436+81.42		1		
SOUTHBOUND	RT	1436+76.52		1437+20.42			1	
SOUTHBOUND	LT	1436+81.42		1437+25.32			1	
SOUTHBOUND	RT	1437+83.65		1438+27.55			1	
SOUTHBOUND	LT	1437+88.60		1438+32.50			1	
SOUTHBOUND	RT	1438+27.55		1439+77.70	150			
SOUTHBOUND	LT	1438+32.50		1441+19.82	287.5			
SOUTHBOUND	RT	1439+77.70		1440+27.41				1
SOUTHBOUND	LT	1441+19.82		1441+69.38				1
TOTAL					750	4	8	4

TEMPORARY PAVEMENT MARKING - LINE 4"							
PROFILE	OFFSET	STATION	TO	STATION	70300220	70300220	70300220
					WHITE SOLID	YELLOW SOLID	WHITE SKIP-DASH
					FOOT	FOOT	FOOT
NORTHBOUND	RT	1434+53.14		1440+12.75	560		
NORTHBOUND	RT	1434+39.32		1440+57.58		619	
NORTHBOUND	RT	1437+14.89		1437+82.02			68
NORTHBOUND	LT	1433+73.20		1443+63.09	990		
NORTHBOUND	LT	1435+52.63		1441+23.42		571	
NORTHBOUND	LT	1437+22.29		1437+86.39			65
NORTHBOUND	LT	1447+81.47		1449+43.26			162
SUB-TOTALS					1550	1190	295
TOTAL						3035	

NOTE: OFFSET is based on looking upstation per the given profile.

SCHEDULE OF QUANTITIES

WORK ZONE PAVEMENT MARKING REMOVAL						
					70301000	
PROFILE	OFFSET	STATION	TO	STATION	DESCRIPTION	SQ FT
NORTHBOUND	RT	1434+53.14		1440+12.75	TPM-4"	187
NORTHBOUND	RT	1434+39.32		1440+57.58	TPM-4"	207
NORTHBOUND	RT	1437+14.89		1437+82.02	TPM-4"	23
NORTHBOUND	RT	1422+79.93		1435+79.93	PRE-STAGE	434
NORTHBOUND	LT	1419+36.97		1438+39.19	TC&P (STAGE I)	635
NORTHBOUND	LT	1434+53.14		1440+12.75	TC&P (STAGE I)	187
NORTHBOUND	RT	1420+57.91		1438+39.33	TC&P (STAGE II)	594
NORTHBOUND	RT	1434+39.32		1440+57.58	TC&P (STAGE II)	207
SOUTHBOUND	LT	1433+73.20		1443+63.09	TPM-4"	330
SOUTHBOUND	LT	1435+52.63		1441+23.42	TPM-4"	191
SOUTHBOUND	LT	1437+22.29		1437+86.39	TPM-4"	22
SOUTHBOUND	LT	1447+81.47		1449+43.26	TPM-4"	54
SOUTHBOUND	LT	1447+59.00		1447+72.46	TC&P (STAGE I)	26
SOUTHBOUND	LT	1449+17.46		1449+43.26	TC&P (STAGE I)	30
SOUTHBOUND	LT	1449+43.26		1451+83.99	TC&P (STAGE I)	83
SOUTHBOUND	LT	1452+64.75		1459+43.06	TC&P (STAGE I)	228
SOUTHBOUND	LT	1433+73.20		1443+63.09	TC&P (STAGE II)	330
SOUTHBOUND	LT	1436+63.01		1444+40.67	TC&P (STAGE II)	265
SOUTHBOUND	LT	1447+59.42		1447+81.47	TC&P (STAGE II)	26
SOUTHBOUND	LT	1449+17.40		1449+43.26	TC&P (STAGE II)	30
SOUTHBOUND	LT	1449+43.26		1459+43.21	TC&P (STAGE II)	334
TOTAL						4423

TEMPORARY CONCRETE BARRIERS						
					70400100	70400200
PROFILE	OFFSET	STATION	TO	STATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER
					FOOT	FOOT
NORTHBOUND	RT	1435+22.37		1437+81.74	262.5	262.5
SOUTHBOUND	LT	1437+10.87		1440+29.64	312.5	312.5
TOTAL					575	575

IMPACT ATTENUATORS					
			70600250	70600350	
PROFILE	OFFSET	STATION	TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	
			EACH	EACH	
NORTHBOUND	LT	1435+22.37	1		
SOUTHBOUND	LT	1440+29.64		1	
NORTHBOUND	RT	1435+22.41	1		
SOUTHBOUND	LT	1440+32.93		1	
TOTAL			2	2	

NOTE: OFFSET is based on looking upstation per the given profile.

SCHEDULE OF QUANTITIES

PAINT PAVEMENT MARKING - LINE 4"						
						78001110
PROFILE	OFFSET	STATION	TO	STATION	WHITE SOLID	YELLOW SOLID
					WHITE SKIP-DASH	
					FOOT	FOOT
NORTHBOUND	RT	1434+53.14		1440+12.75	560	
NORTHBOUND	RT	1434+39.32		1440+57.58		619
NORTHBOUND	RT	1437+14.89		1437+82.02		68
NORTHBOUND	LT	1433+73.20		1443+63.09	990	
NORTHBOUND	LT	1435+52.63		1441+23.42		571
NORTHBOUND	LT	1437+22.29		1437+86.39		65
NORTHBOUND	LT	1447+81.47		1449+43.26		162
SUB-TOTALS					1550	1190
TOTAL						3035

PAVEMENT MARKING REMOVAL					
					78300100
PROFILE	OFFSET	STATION	TO	STATION	SQ FT
NORTHBOUND	RT	1434+53.14		1440+12.75	187
NORTHBOUND	LT	1434+39.32		1440+57.58	207
SOUTHBOUND	LT	1435+52.63		1441+23.42	191
SOUTHBOUND	LT	1447+81.47		1449+43.26	54
SOUTHBOUND	LT	1433+73.20		1443+63.09	330
TOTAL					969

PIPE CULVERTS, CLASS A, TYPE 2 12"					
					542A1057
PROFILE	OFFSET	STATION	TO	STATION	FOOT
NORTHBOUND	MEDIAN	1438+03.92		1438+33.98	30

GUARDRAIL MARKERS, TYPE A					
				78200410	
PROFILE	OFFSET	STATION	TO	STATION	
					EACH
NORTHBOUND	LT	1434+72.48		1438+39.19	5
NORTHBOUND	RT	1434+60.16		1438+39.23	5
SOUTHBOUND	LT	1436+68.02		1441+72.70	7
SOUTHBOUND	RT	1436+62.93		1440+27.41	5
TOTAL					22

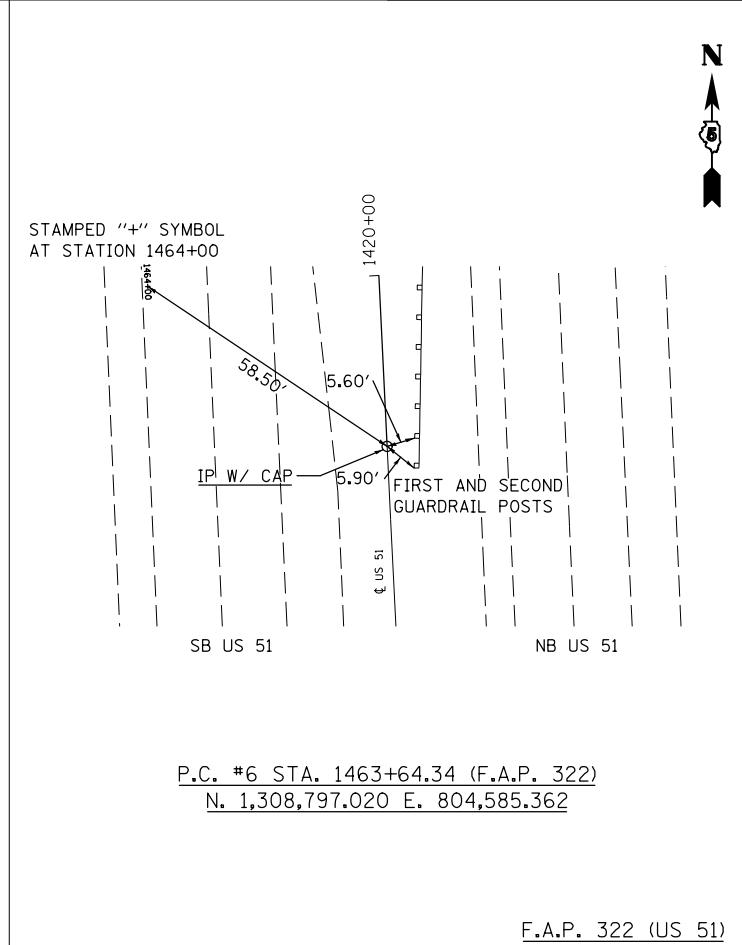
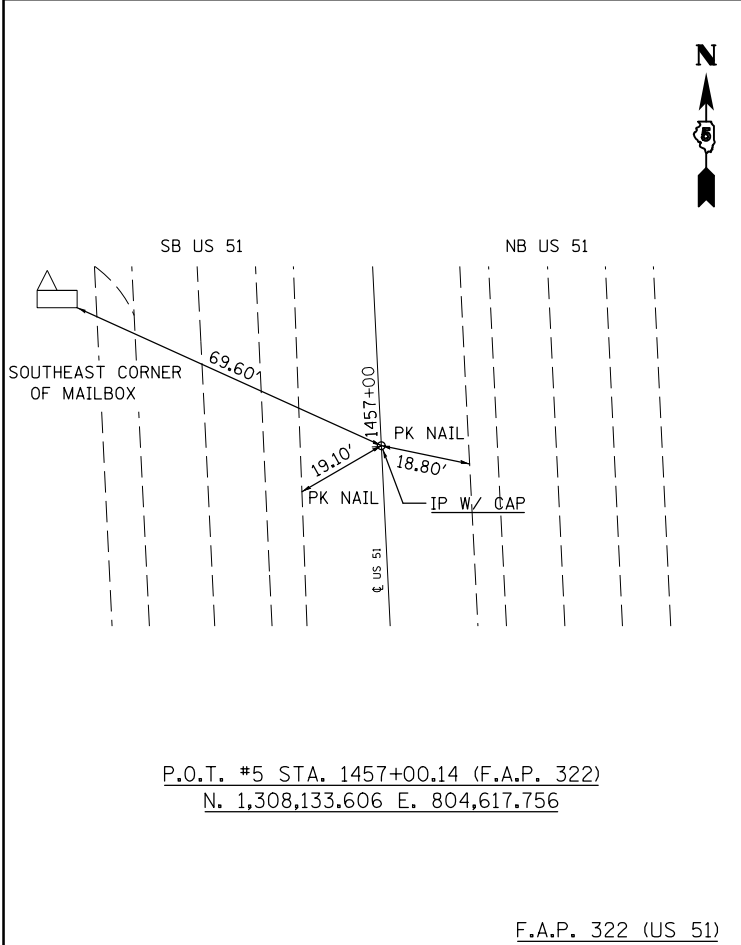
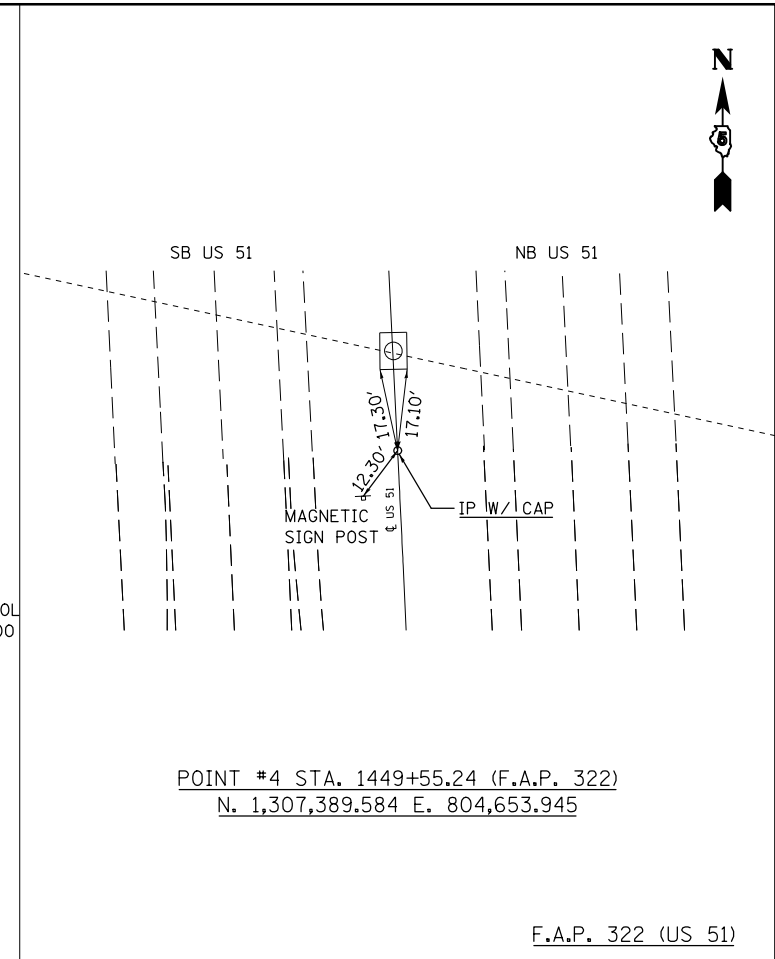
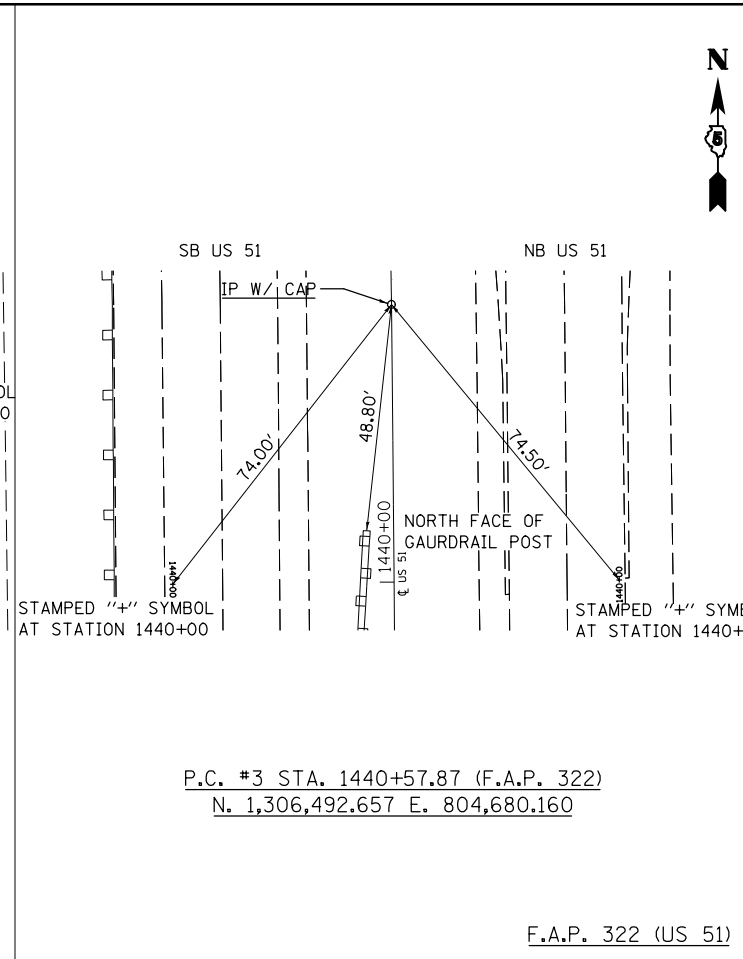
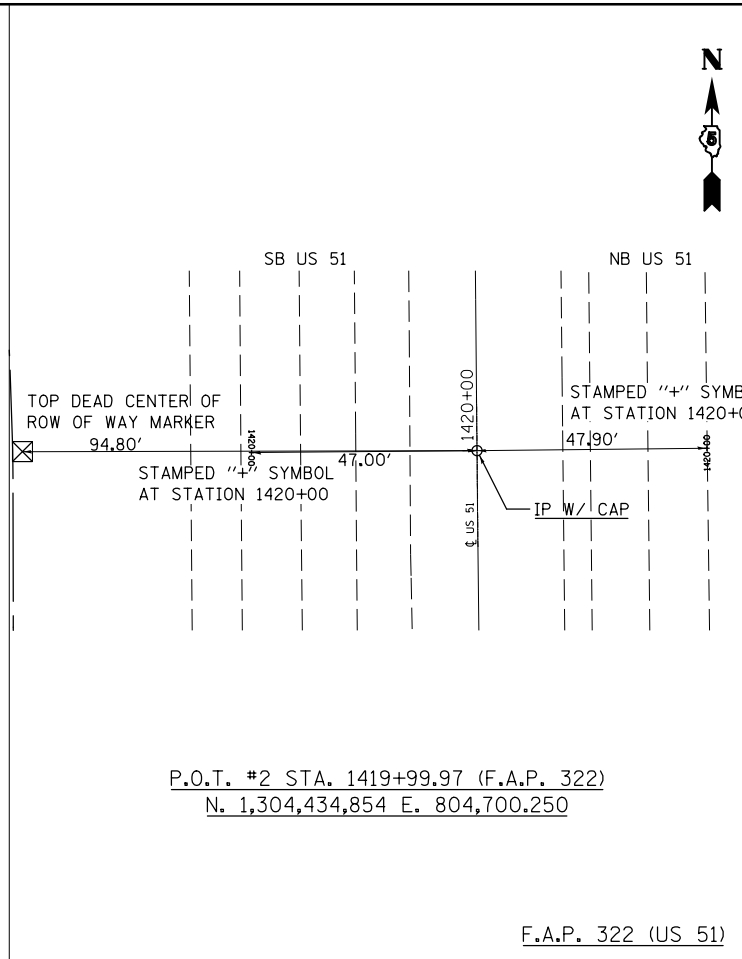
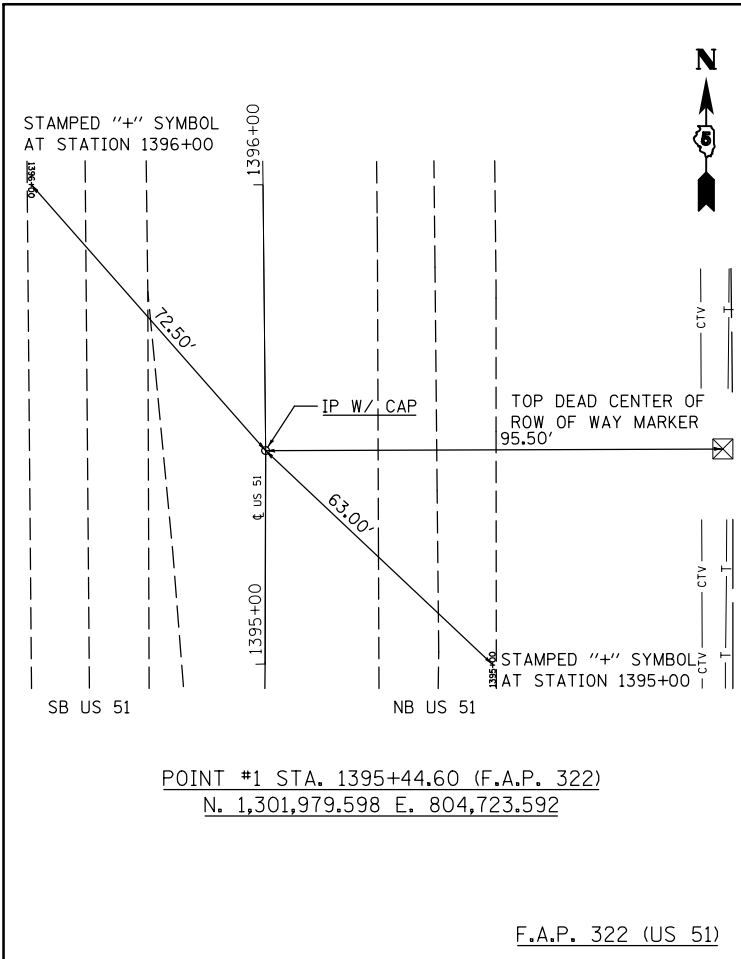
BRIDGE APPROACH SHOULDER REMOVAL					
					Z0001495
PROFILE	OFFSET	STATION	TO	STATION	SQ YD
NORTHBOUND	RT	1437+79.93		1438+09.63	29

APPROACH SLAB REPAIR (PARTIAL DEPTH)					
					Z0001800
PROFILE	LOCATTION	STATION	TO	STATION	SQ YD
NORTHBOUND	MAINLINE	1437+79.93		1438+09.63	5.5
NORTHBOUND	MAINLINE	1437+79.93		1438+09.63	5.5
TOTAL					11

TERMINAL MARKERS - DIRECT APPLIED				
				78201000
PROFILE	OFFSET	STATION	EACH	
NORTHBOUND	LT	1434+72.48	1	
NORTHBOUND	RT	1434+60.16	1	
SOUTHBOUND	LT	1441+72.70	1	
SOUTHBOUND	RT	1440+27.41	1	
TOTAL			4	

TEMPORARY WALL BRACING SYSTEM	
Z0073700	
L SUM	
1	

NOTE: OFFSET is based on looking upstation per the given profile.



ALIGNMENT				
DESCRIPTION	POINT NUMBER	STATION	NORTHING*	EASTING*
PT	1	1395+44.60	1,301,979.598	804,723.592
POT	2	1419+99.97	1,304,434.854	804,700.250
PC	3	1440+57.87	1,306,492.657	804,680.160
PT	4	1449+55.24	1,307,389.584	804,653.945
POT	5	1457+00.14	1,308,133.606	804,617.756
PC	6	1463+64.34	1,308,797.020	804,585.362

* GRID COORDINATES

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

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	NO.
	CHECKED	
	FILE NAME	

N.E. 1/4 SEC. 28, T.21N, R.2E. 3RD P.M.

ROW 102' OFF US 51

ROW 127' OFF US 51

CONSTRUCTION LIMITS (TYP.)

CL FAP ROUTE 322 (US ROUTE 51)

CL & PGL NORTHBOUND

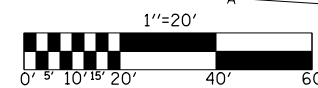
SEC 28
SEC 27

MATCHLINE STATION 1434+50.00

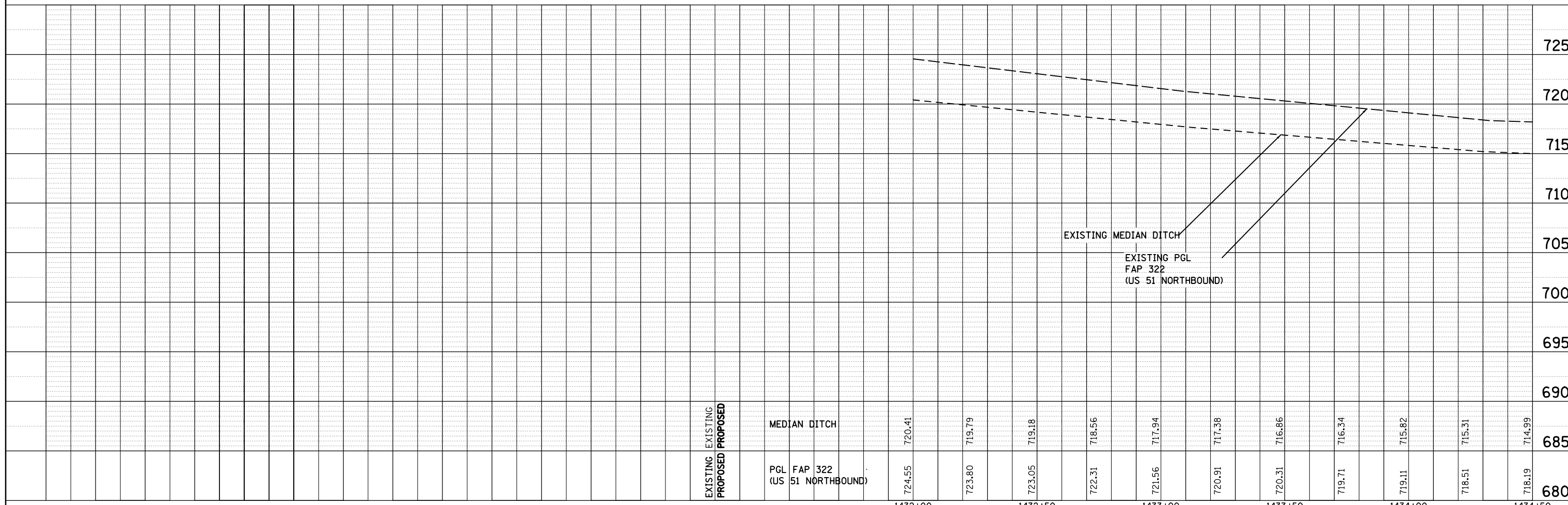
ROW 119' OFF US 51

ROW 123' OFF US 51

GUARDRAIL REMOVAL (TYP.)



N.W. 1/4 SEC. 27, T.21N, R.2E. 3RD P.M.



FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -
c:\pwork\pwork\jmedf\d0291813\0570606.sht	plnpr.f.dgn	DRAWN - DFJ	REVISED -
#MODELNAMEs	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/31/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 020-0046 (US 51 NORTHBOUND)
PLAN & PROFILE SHEETS

SCALE: SHEET 001 OF 002 SHEETS STA. 1432+00.00 TO STA. 1434+50.00

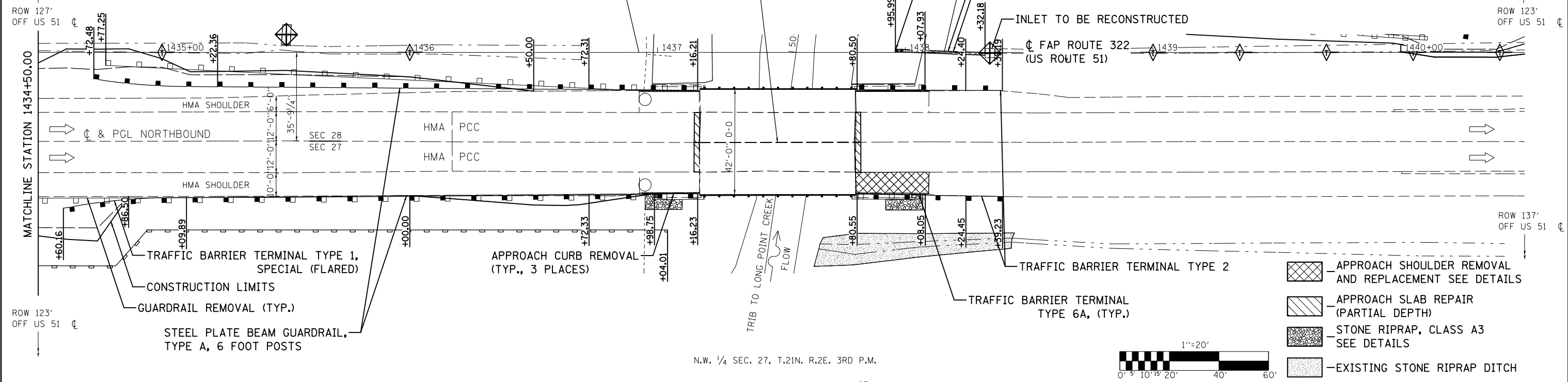
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	17
CONTRACT NO. 70606			ILLINOIS FED. AID PROJECT	

BENCHMARK: CHISELED SQUARE LOCATED ON THE TOP OF THE SE WINGWALL OF SOUTHBOUND BRIDGE S.N. 020-0047, STA. 1437+21.63, ELEV. 718.78

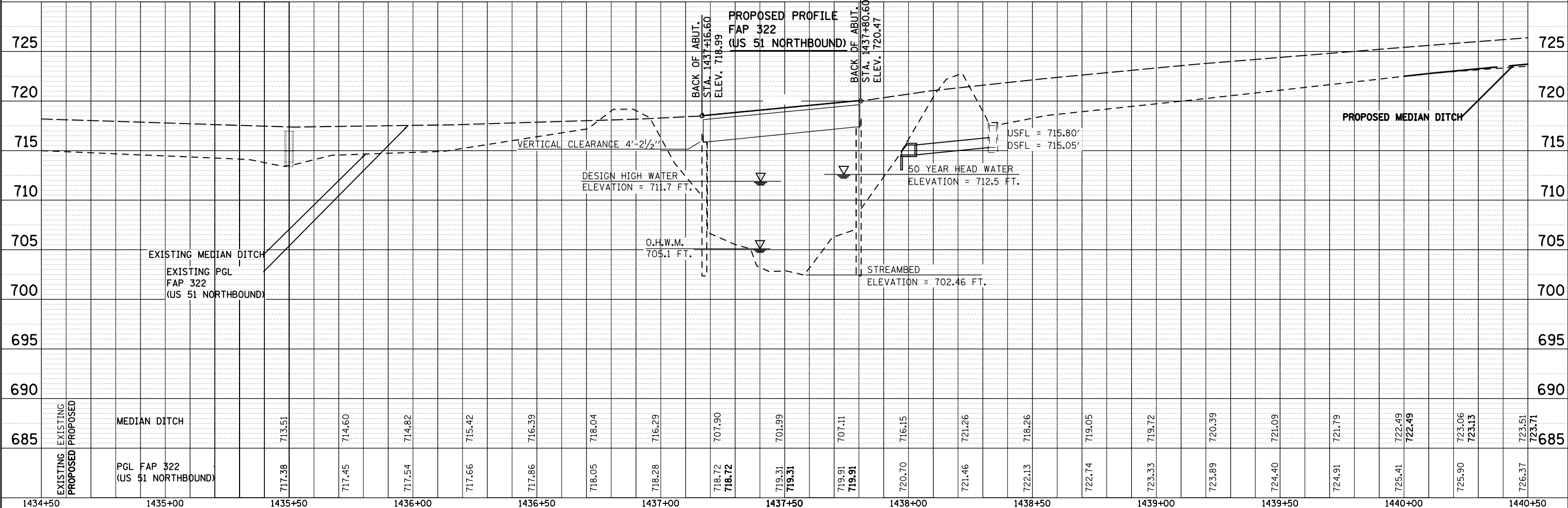
PROPOSED SUPERSTRUCTURE REPLACEMENT
S.N. 020-0046 STA. 1437+48.50
SINGLE SPAN PPC DECK BEAM BRIDGE
PROPOSED 42'-0" OUT TO OUT
64'-0" BACK TO BACK OF ABUTMENTS
NO SKEW

PROPOSED IMPROVEMENT
ENDS STA. 1438+15.66

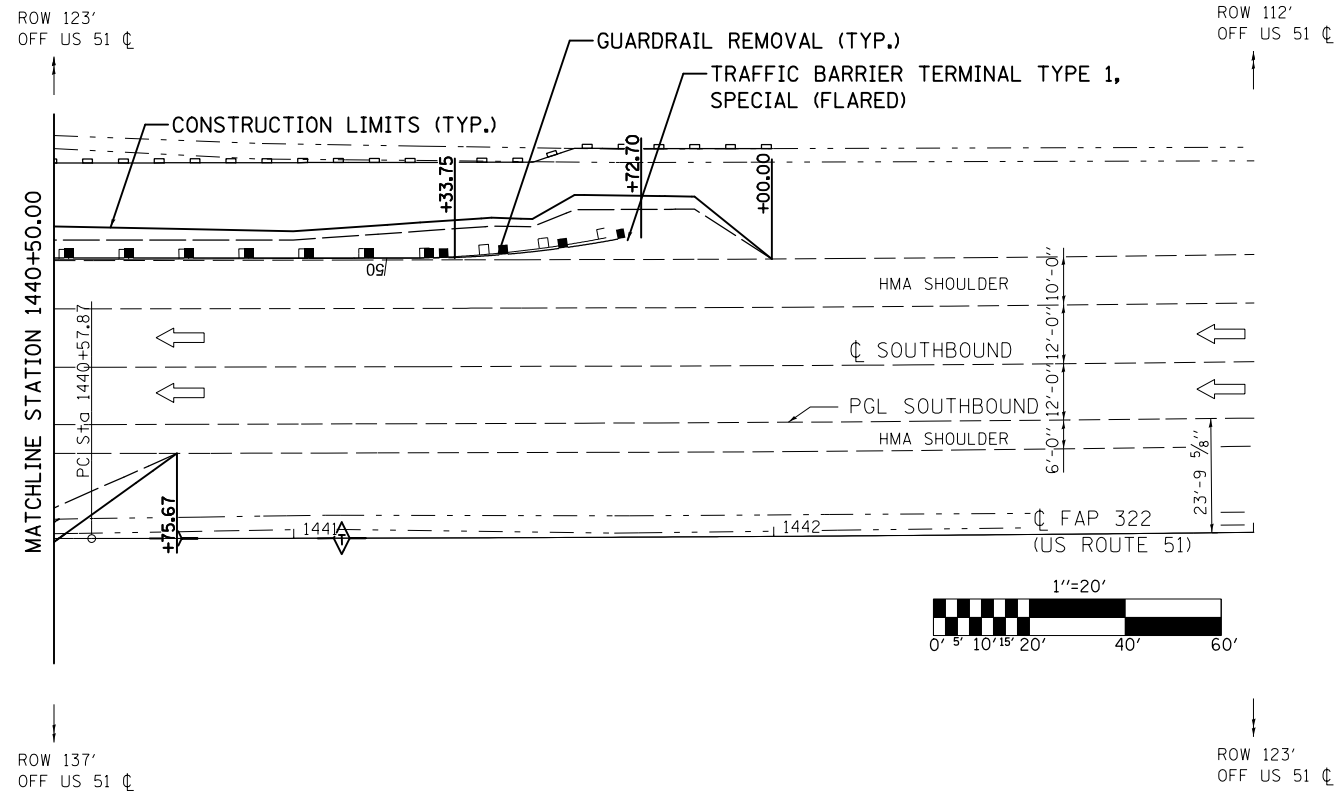
DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
NOTE BOOK	
NO.	
ALIGNED	
CHECKED	
FILE NAME	



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

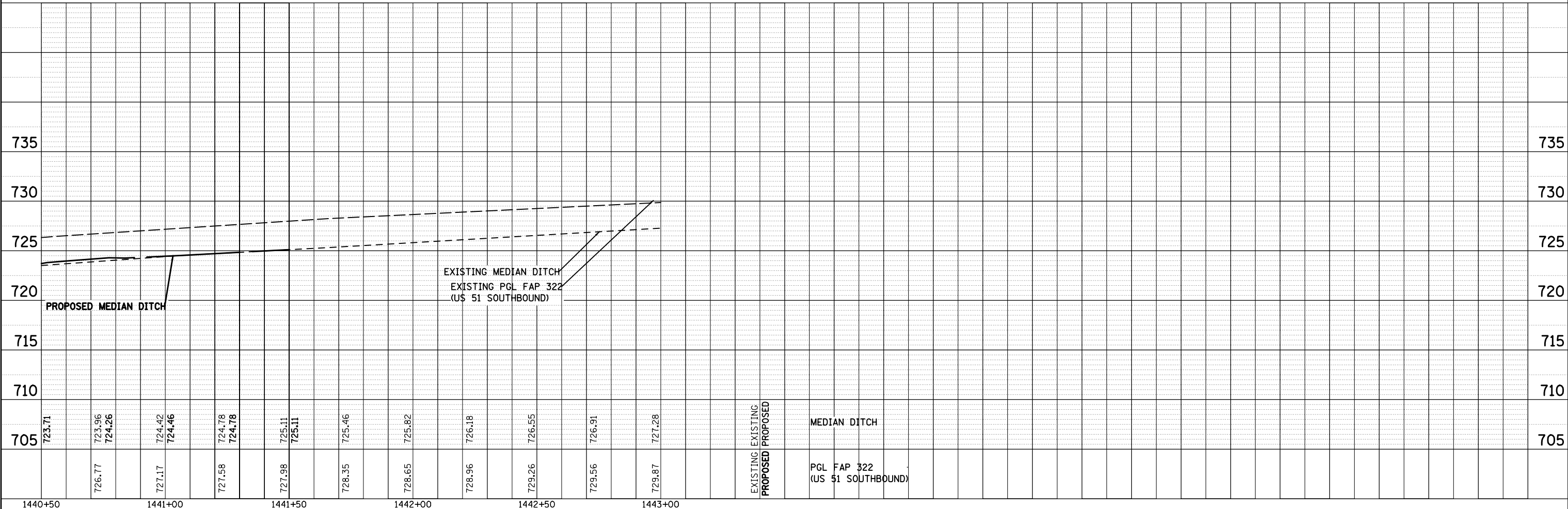


FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">S.N. 020-0046 (US 51 NORTHBOUND) PLAN & PROFILE SHEETS</p>	F.A.P. RTE. = 322	SECTION = 54B-3, 54B-2	COUNTY = DEWITT	TOTAL SHEETS = 89	SHEET NO. = 18
MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		SCALE: 1"=20'	CONTRACT NO. 70606		ILLINOIS FED. AID PROJECT	
	PLOT DATE = 1/31/2014	DATE -	REVISED -		SHEET 002 OF 002 SHEETS	STA. 1434+50.00 TO STA. 1440+50.00			



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		

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



FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -
c:\pwork\pwork\jmedf\d0291813\0570606.sht:plnpr.fgn		DRAWN - DFJ	REVISED -
MODELNAMEs		CHECKED -	REVISED -
		DATE -	REVISED -

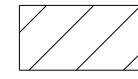
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**S.N. 020-0047 (US 51 SOUTHBOUND)
PLAN & PROFILE SHEETS**

SCALE: SHEET 002 OF 002 SHEETS STA. 1440+50.00 TO STA. 1443+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	20
CONTRACT NO. 70606			ILLINOIS FED. AID PROJECT	

SYMBOLS



WORK AREA



SIGN



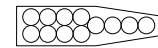
TYPE II BARRICADE, DRUM, OR
VERTICAL BARRICADE WITH
STEADY BURN MONODIRECTIONAL
LIGHT



DRUMS WITH STEADY BURNING
MONODIRECTIONAL LIGHT



ARROW BOARD



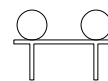
TEMPORARY IMPACT ATTENUATOR,
NON-REDIRECTIVE, TL3



DIRECTION INDICATOR BARRICADE
WITH STEADY BURN
MONODIRECTIONAL LIGHT



MONODIRECTIONAL BARRIER
WALL/GUARDRAIL MARKER



BARRICADE TYPE III WITH
FLASHING BURNING
MONODIRECTIONAL LIGHT



VERTICAL PANEL WITH STEADY
BURNING MONODIRECTIONAL
LIGHT

GENERAL NOTES FOR STAGE CONSTRUCTION

1. ALL SIGNS, TRAFFIC CONTROL EQUIPMENT, AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST VERSIONS OF HIGHWAY STANDARDS 701400, 701402, 701406, 701411, AS SHOWN ON THIS PLAN, AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE EACH FOR TRAFFIC CONTROL AND PROTECTION STANDARDS 701400, 701402, 701406, AND 701411.
2. CARLE SPRING ROAD (1400 N), FROESE LN, AND ALL PRIVATE ENTRANCES ARE TO REMAIN OPEN AT ALL TIMES.
3. RCA SIGNS ARE TO BE POSTED ON BOTH LEGS IN ADVANCE OF THE CARLE SPRINGS ROAD (1400 N) INTERSECTION, ON FROESE LN, AND SOUTH OF BUCKS ROAD (1475 N) AS DIRECTED BY THE ENGINEER.
4. WORK ZONE SPEED LIMIT SIGNS SHALL BE POSTED AT STATION 1443+50.00 AS SHOWN ON THIS PLAN.
5. ALL TRAFFIC CONTROL ITEMS NOT SHOWN ON STAGE I & II PLAN VIEW SHALL BE PER REQUIREMENTS OF TRAFFIC CONTROL AND PROTECTION STANDARDS 701400, 701402, 701406, AND 701411.

PRE-STAGE NOTES

1. REMOVE AND REPLACE THE NORTHEAST APPROACH SHOULDER, LOCATED NORTH OF S. N. 020-0046. (SEE STAGE I TRAFFIC CONTROL, SHEET 25).
2. PRIOR TO ROUTING TRAFFIC ONTO THE SHOULDERS AS SHOWN IN THE STAGING PLANS, THE CONTRACTOR SHALL SECURE THE GRATINGS ON SHOULDER INLETS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

STAGE I NOTES

1. ERECT SIGNS, TRAFFIC CONTROL DEVICES, ETC. ACCORDING TO TRAFFIC CONTROL STANDARDS 701400, 701402, 701406, 701411 (APPLICATION NO. 4), AS SHOWN ON THIS PLAN, AND AS DIRECTED BY THE ENGINEER.
2. PLACE TEMPORARY PAVEMENT MARKING LINE TO ALLOW FOR A 11' -0" DRIVING LANE. REMOVE ANY CONFLICTING STRIPING.
3. PLACE TEMPORARY WALL BRACING SYSTEM.
4. REMOVE THE STAGE I PORTION OF THE EXISTING SUPERSTRUCTURES.
5. CONSTRUCT THE STAGE I PORTION OF THE NEW SUPERSTRUCTURES.
6. REMOVE THE STAGE I PORTION OF THE EXISTING APPROACH CURBS AND GUARDRAIL.
7. CONSTRUCT THE STAGE I PORTION OF THE EARTH EMBANKMENT, PLACE AGGREGATE SHOULDER, AND INSTALL GUARDRAIL.

STAGE II NOTES

1. RELOCATE SIGNS, TRAFFIC SIGNALS, TEMPORARY BARRIERS, ETC. ACCORDING TO TRAFFIC CONTROL STANDARDS 701400, 701402, 701406, 701411 (APPLICATION NO. 4), AS SHOWN ON THIS PLAN, AND AS DIRECTED BY THE ENGINEER.
2. PLACE TEMPORARY PAVEMENT MARKING LINE TO ALLOW FOR A 11' -0" DRIVING LANE. REMOVE ANY CONFLICTING STRIPING.
3. REMOVE THE STAGE II PORTION OF THE EXISTING SUPERSTRUCTURES.
4. CONSTRUCT THE STAGE II PORTION OF THE NEW SUPERSTRUCTURES.
5. REMOVE THE STAGE II PORTION OF THE EXISTING APPROACH CURBS AND GUARDRAIL.
6. CONSTRUCT THE STAGE II PORTION OF THE EARTH EMBANKMENT, PLACE AGGREGATE SHOULDER, AND INSTALL GUARDRAIL.
7. REMOVE TEMPORARY WALL BRACING SYSTEM
8. REMOVE TEMPORARY BARRIERS, WORK ZONE PAVEMENT MARKING, AND SIGNS ASSOCIATED WITH TRAFFIC CONTROL STANDARDS 701402, 701406, 701411, AND AS SHOWN ON THIS PLAN.
9. PLACE PERMANENT PAVEMENT MARKINGS.
10. PLACE SEEDING.

FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -
c:\pwork\pwork\jaymedf\d0291813\057006-sh1-staging.dgn		DRAWN - DFJ	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 1/31/2014	DATE -	REVISED -

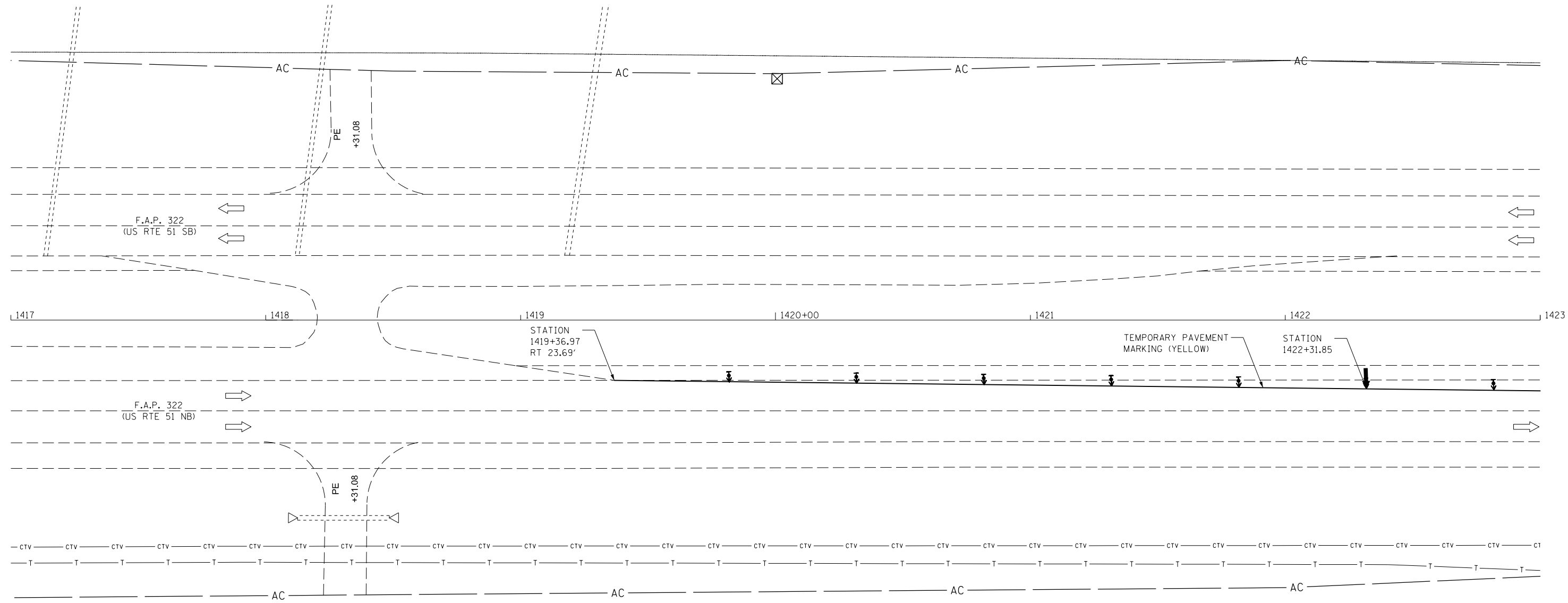
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGING NOTES

SCALE: SHEET 001 OF 001 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	21
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70606	

STAGE I



FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -
c:\pwork\pwork\jaymedf\d0291813\057006-sh1-staging.dgn		DRAWN - DFJ	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 1/31/2014	DATE -	REVISED -

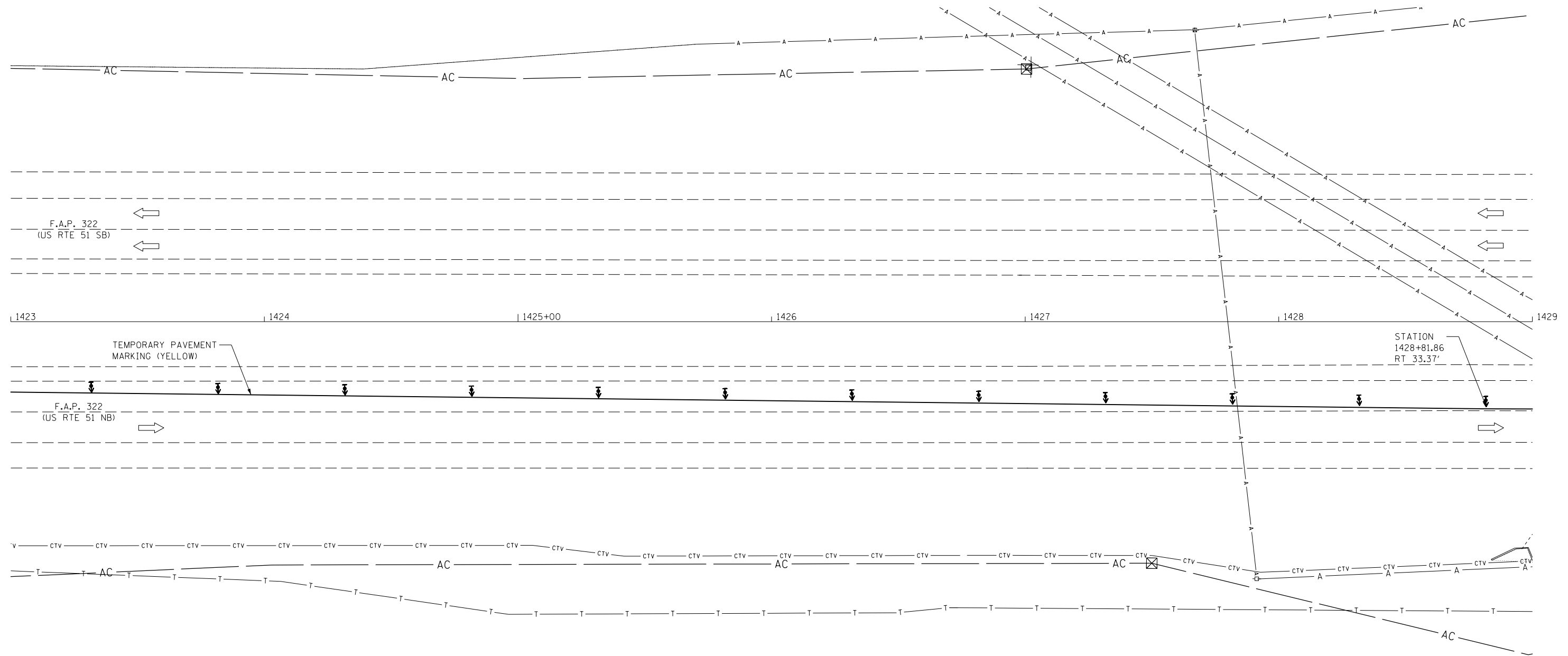
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE I TRAFFIC CONTROL

SCALE: SHEET 001 OF 008 SHEETS STA. 1417+00.00 TO STA. 1423+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	22
CONTRACT NO. 70606			ILLINOIS FED. AID PROJECT	

STAGE I



FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -
c:\pwork\pwork\jaymedf\d0291813\057006-sh1-staging.dgn		DRAWN - DFJ	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
MODELNAME	PLOT DATE = 1/31/2014	DATE -	REVISED -

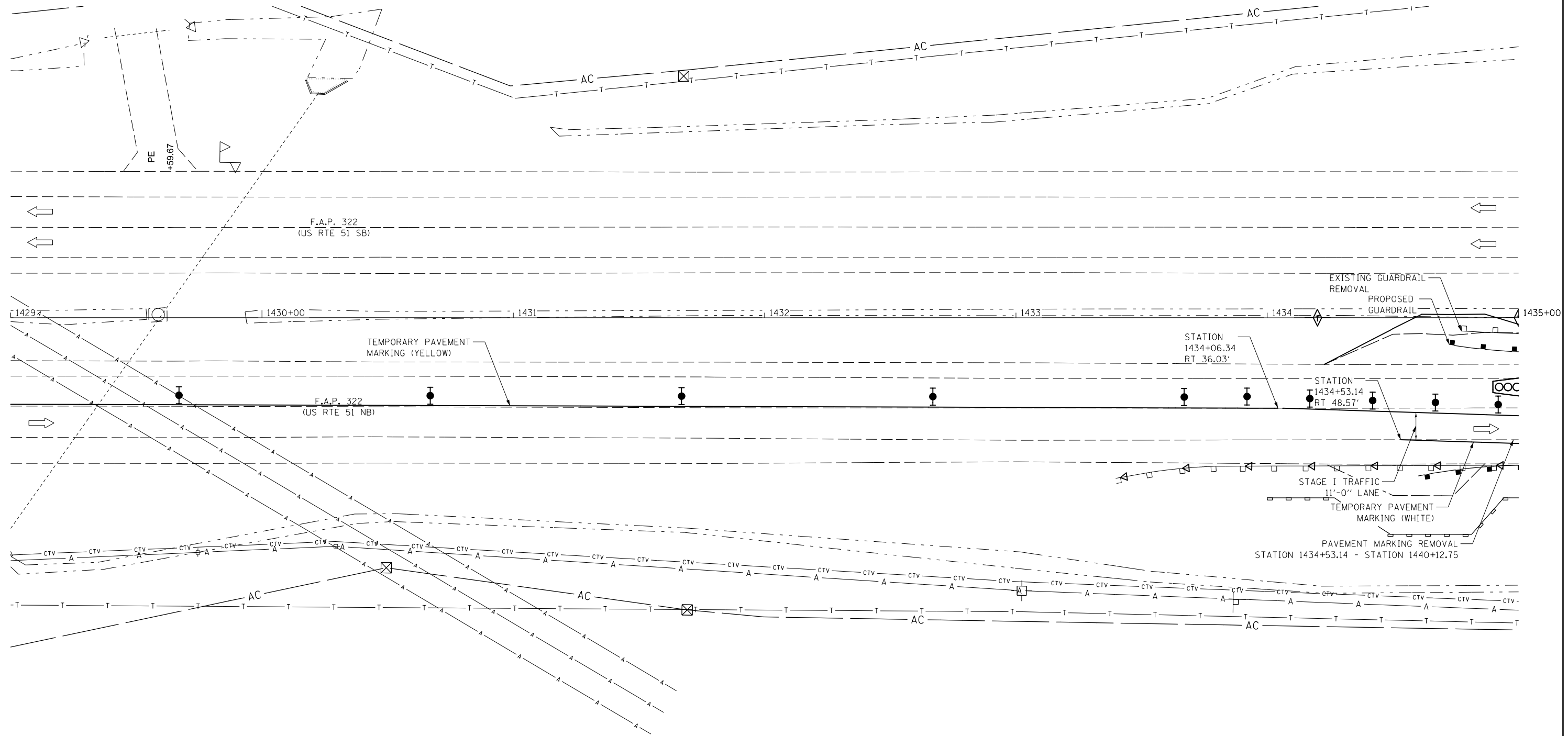
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE I TRAFFIC CONTROL

SCALE: SHEET 002 OF 008 SHEETS STA. 1423+00.00 TO STA. 1429+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	23
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70606	

STAGE I



FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -
c:\pwwork\pwwork\jaymedf\d0291813\057006-sh1-staging.dgn		DRAWN - DFJ	REVISED -
	PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 1/31/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

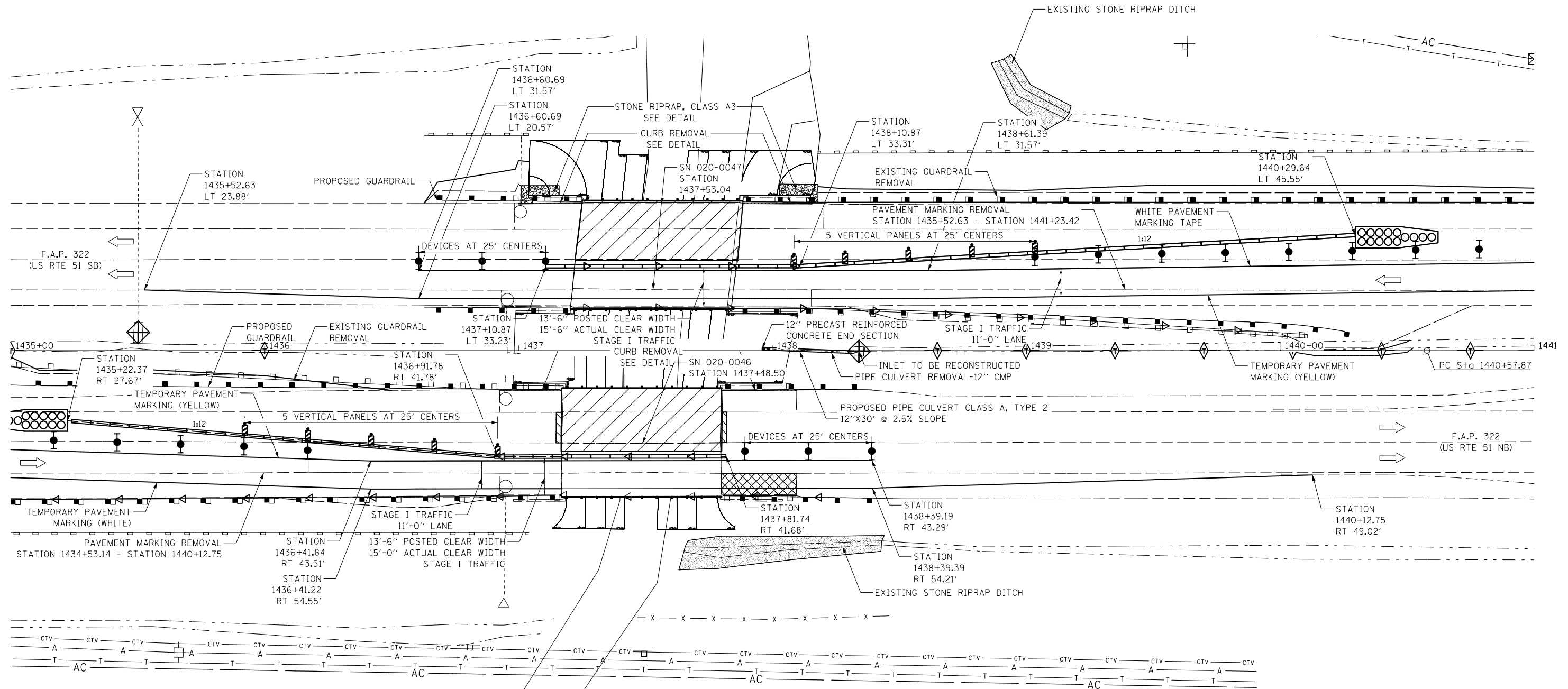
STAGE I TRAFFIC CONTROL

SCALE: SHEET 003 OF 008 SHEETS STA. 1429+00+00 TO STA. 1435+00.00

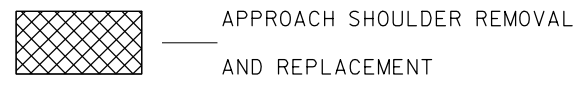
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	24
CONTRACT NO. 70606				
ILLINOIS FED. AID PROJECT				

STAGE I

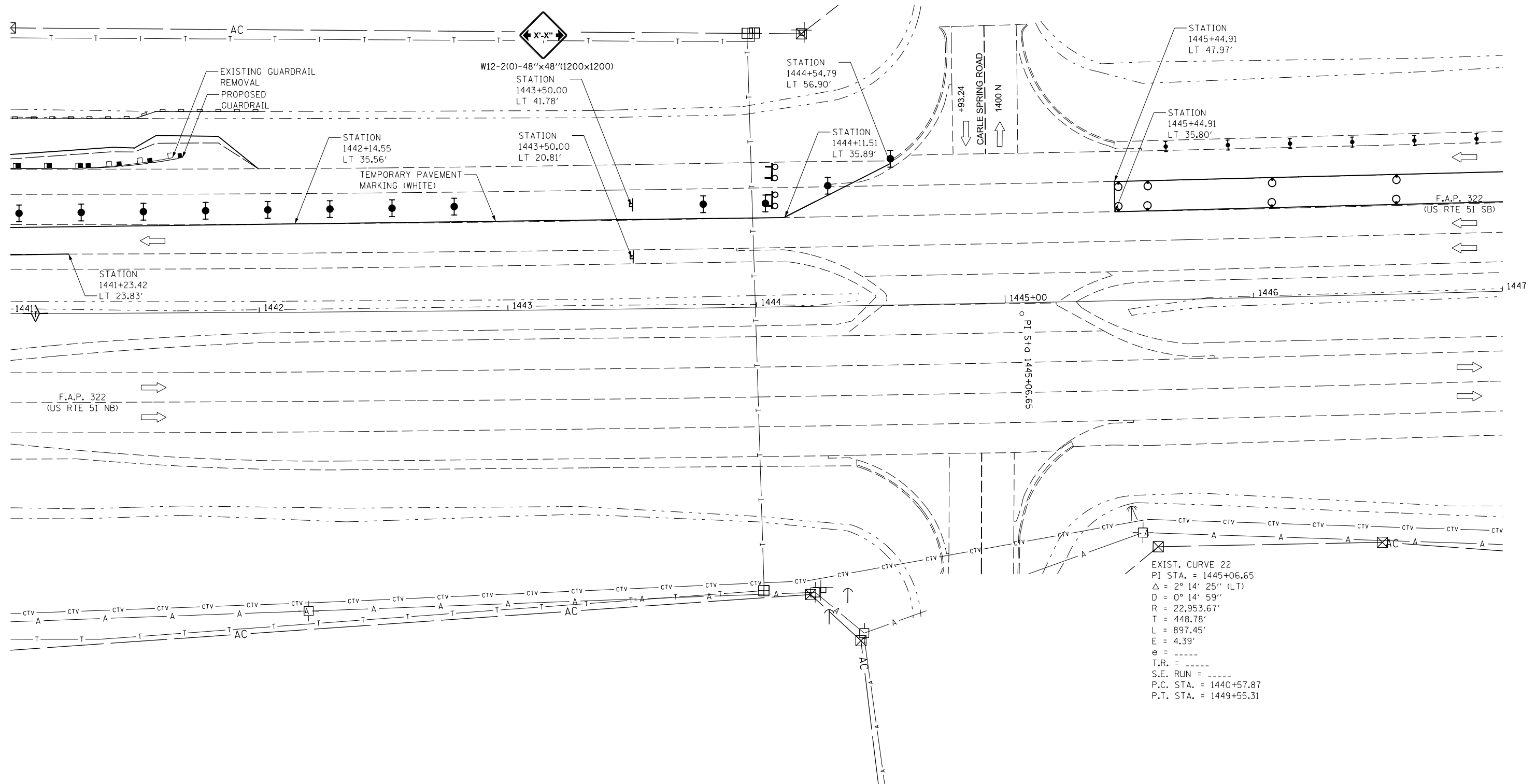
EXISTING PPC DECK BEAM CONDITION
 DICTATES STAGING SEQUENCE.
 PLEASE DO NOT DEVIATE FROM THIS PLAN.



PRE-CONSTRUCTION NOTES:

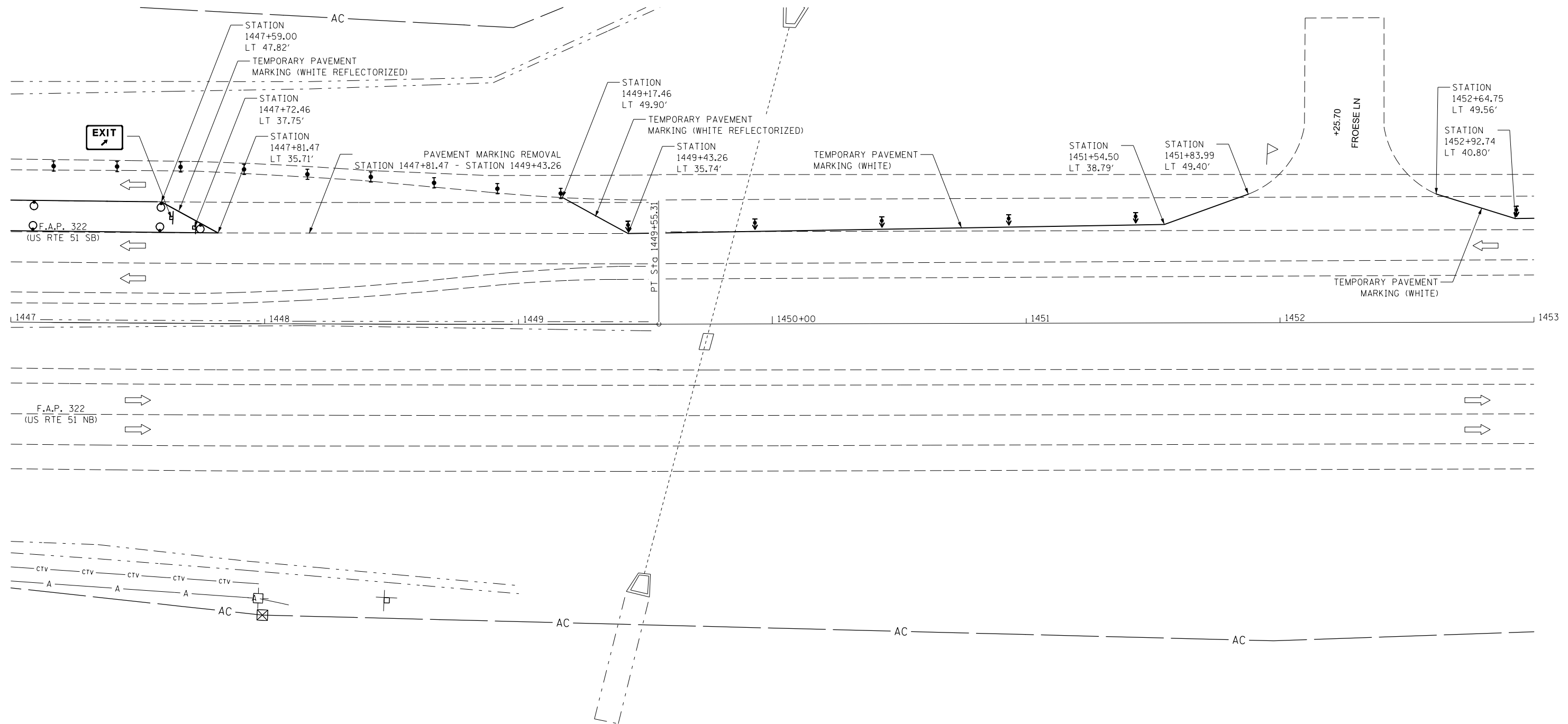


FILE NAME = c:\pw\work\p1dot\jaymedf\d0291813\057006-sh1-staging.dgn	USER NAME = jaymedf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE I TRAFFIC CONTROL			F.A.P. RTE. 322	SECTION 54B-3, 54B-2	COUNTY DEWITT	TOTAL SHEETS 89	SHEET NO. 25
#MODELNAME#	PLOT SCALE = 40.0000' / in.	DRAWN - DFJ	REVISED -		SCALE:	SHEET 004 OF 008 SHEETS	STA. 1435+00.00 TO STA. 1441+00.00	CONTRACT NO. 70606				
	PLOT DATE = 1/31/2014	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									



FILE NAME = c:\pwwork\pwwork\jayedf\d0291813\057006-sh1-staging.dgn	USER NAME = jayedf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE I TRAFFIC CONTROL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	DRAWN - DFJ	REVISED -		SCALE:	SHEET 005 OF 008 SHEETS	STA. 1441+00.00 TO STA. 1447+00.00	322	54B-3, 54B-2	DEWITT	89	26
#MODELNAME#	PLOT DATE = 1/31/2014	CHECKED -	REVISED -		CONTRACT NO. 70606							
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

STAGE I



FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -
ct:\pw\work\p\dot\jaymedf\d0291813\057006-sh1-staging.dgn		DRAWN - DFJ	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 1/31/2014	DATE -	REVISED -

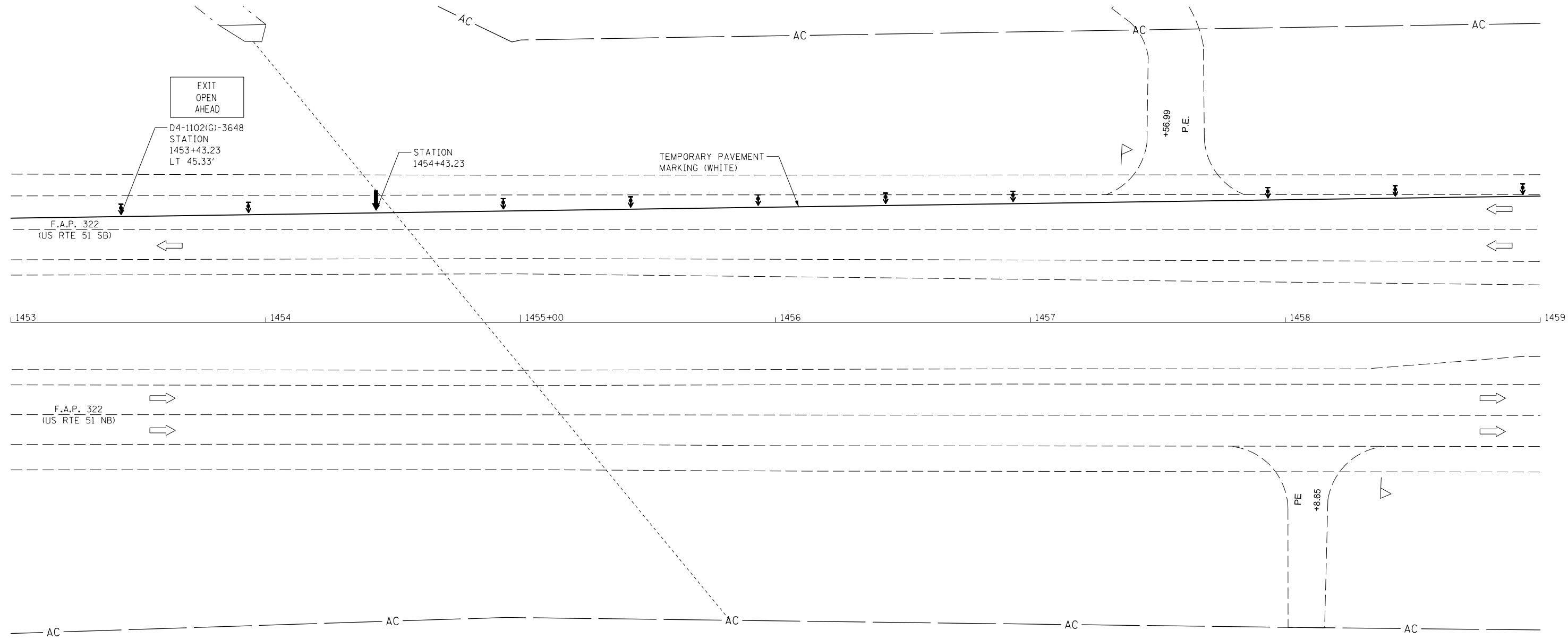
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE I TRAFFIC CONTROL

SCALE: SHEET 006 OF 008 SHEETS STA. 1447+00.00 TO STA. 1453+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	27
CONTRACT NO. 70606			ILLINOIS FED. AID PROJECT	

STAGE I



FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -
c:\pwork\pwork\jaymedf\d0291813\057006-sh1-staging.dgn		DRAWN - DFJ	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
MODELNAME	PLOT DATE = 1/31/2014	DATE -	REVISED -

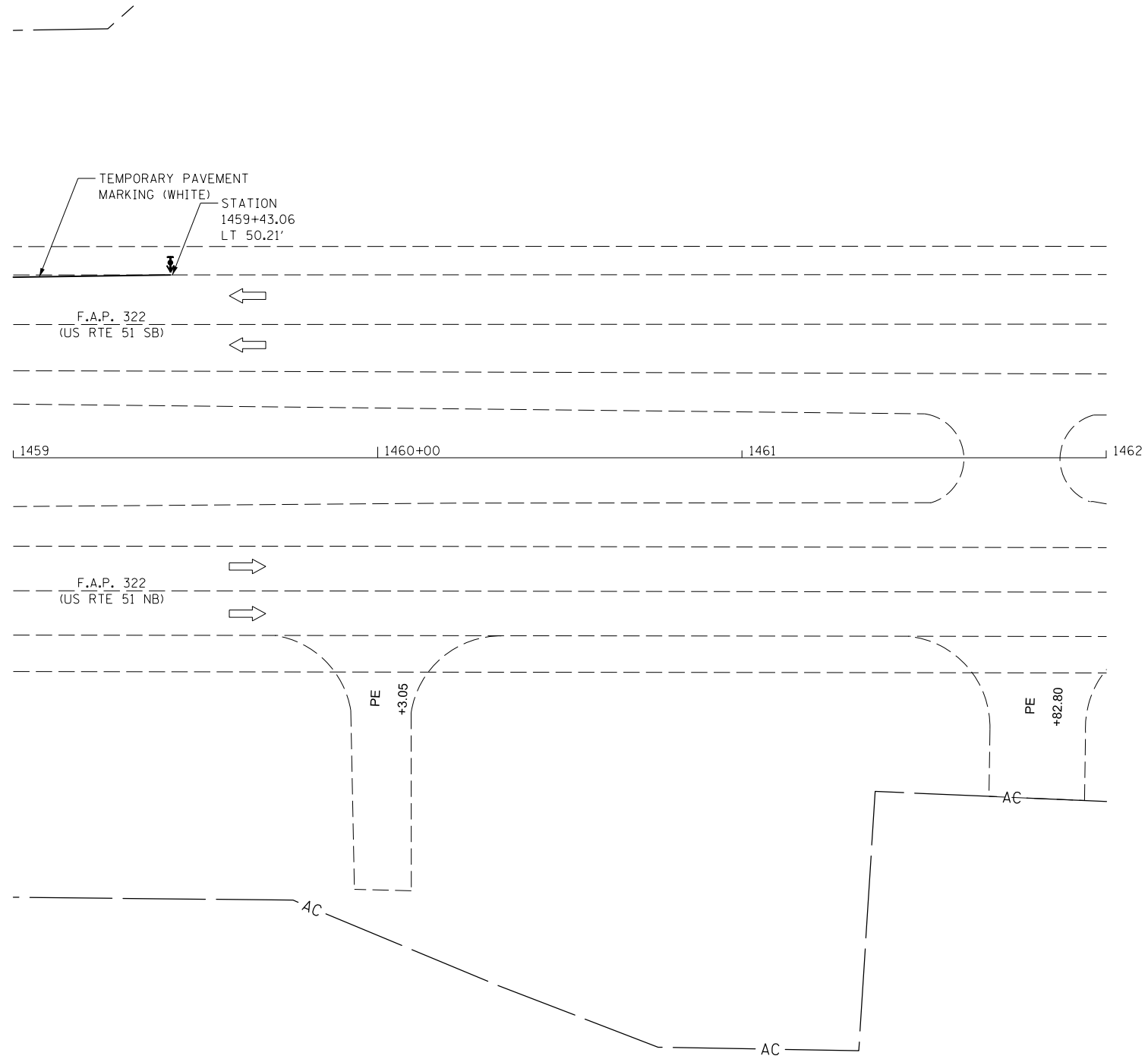
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE I TRAFFIC CONTROL

SCALE: SHEET 007 OF 008 SHEETS STA. 1453+00.00 TO STA. 1459+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	28
CONTRACT NO. 70606			ILLINOIS FED. AID PROJECT	

STAGE I



FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -
c:\pwork\pwork\jaymedf\d0291813\057006-sh1-staging.dgn		DRAWN - DFJ	REVISED -
MODELNAME	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/31/2014	DATE -	REVISED -

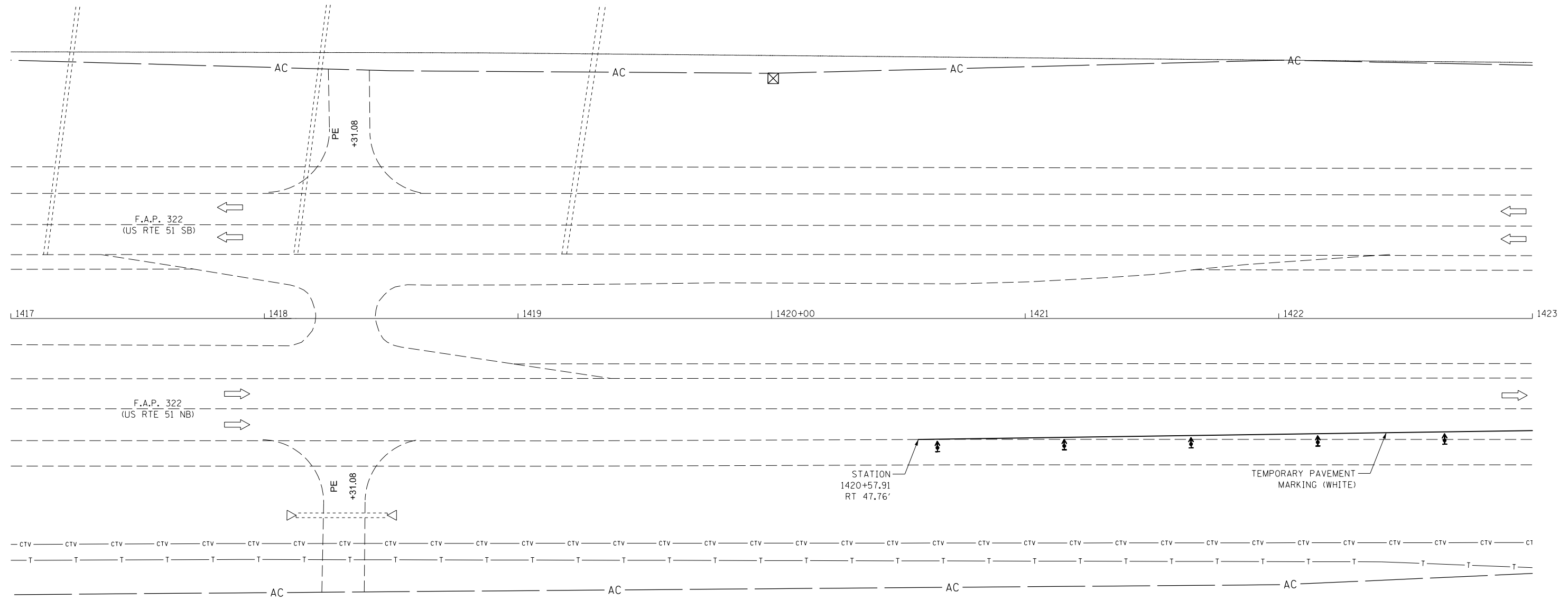
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE I TRAFFIC CONTROL

SCALE: SHEET 008 OF 008 SHEETS STA. 1459+00.00 TO STA. 1462+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	29
CONTRACT NO. 70606			ILLINOIS FED. AID PROJECT	

STAGE II



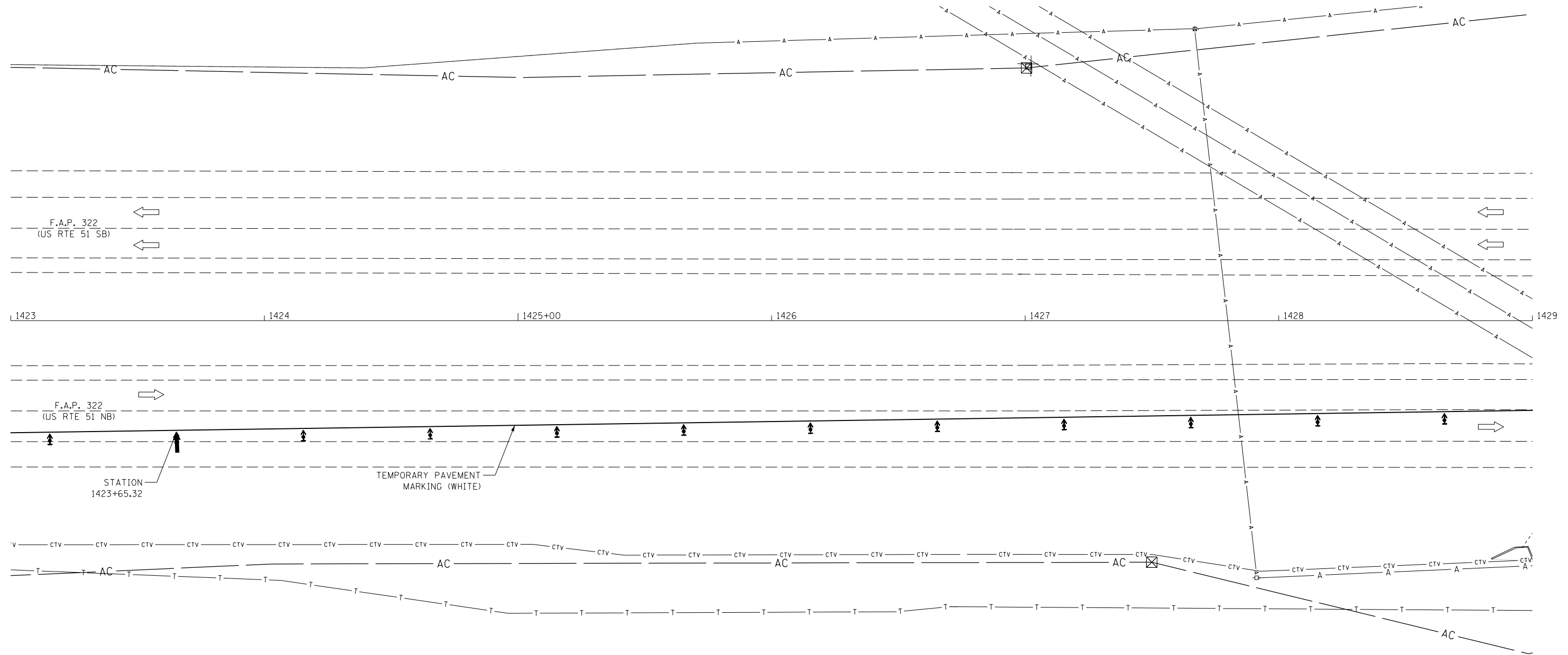
FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -
c:\pwork\pwork\jaymedf\d0291813\057006-sh2-staging.dgn		DRAWN - DFJ	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 1/31/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE II TRAFFIC CONTROL

SCALE: SHEET 001 OF 008 SHEETS STA. 1417+00.00 TO STA. 1423+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	30
CONTRACT NO. 70606			ILLINOIS FED. AID PROJECT	



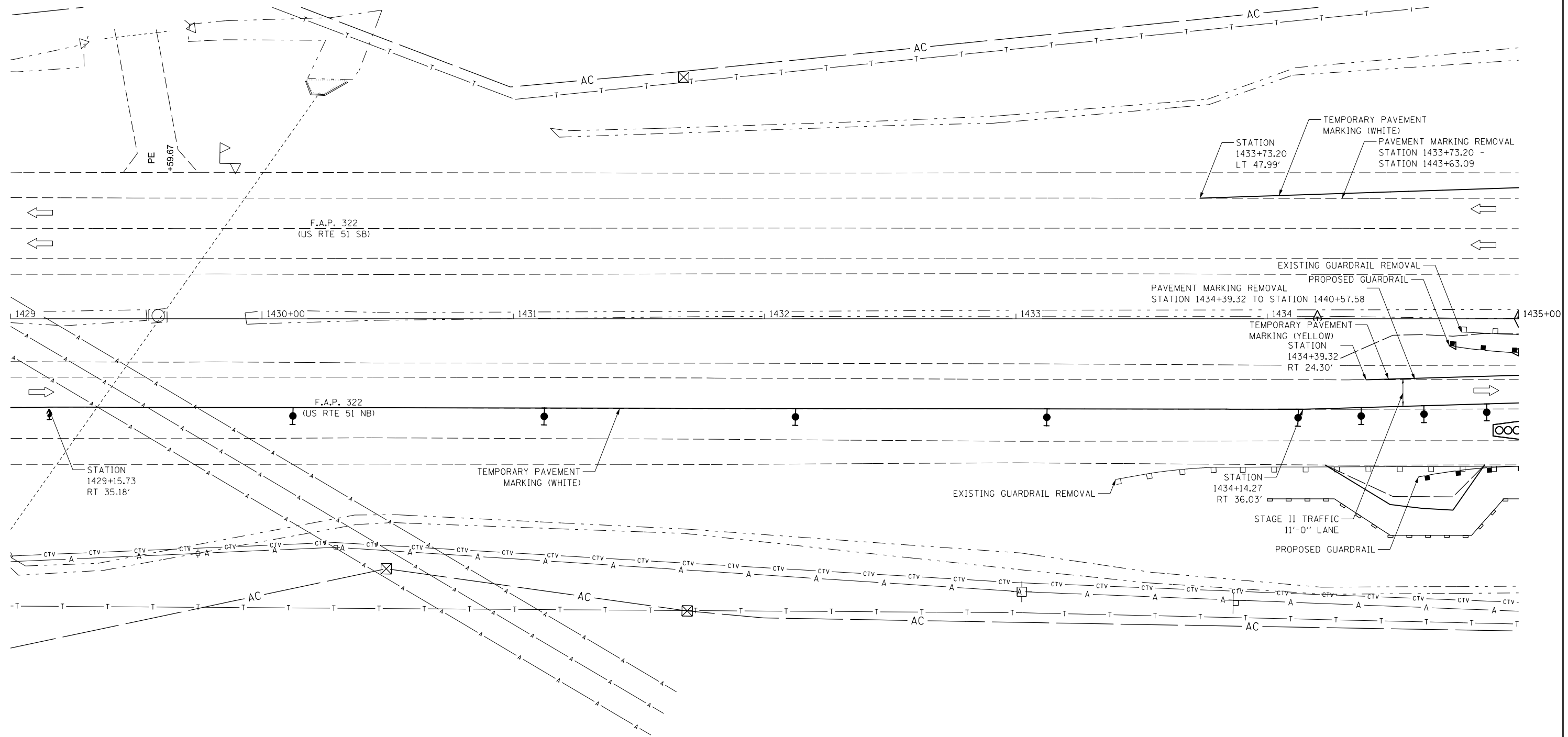
FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -
c:\pwork\pwork\jaymedf\d0291813\057006-sh1-staging.dgn		DRAWN - DFJ	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
MODELNAME	PLOT DATE = 1/31/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE II TRAFFIC CONTROL

SCALE: SHEET 002 OF 008 SHEETS STA. 1423+00.00 TO STA. 1429+00.00

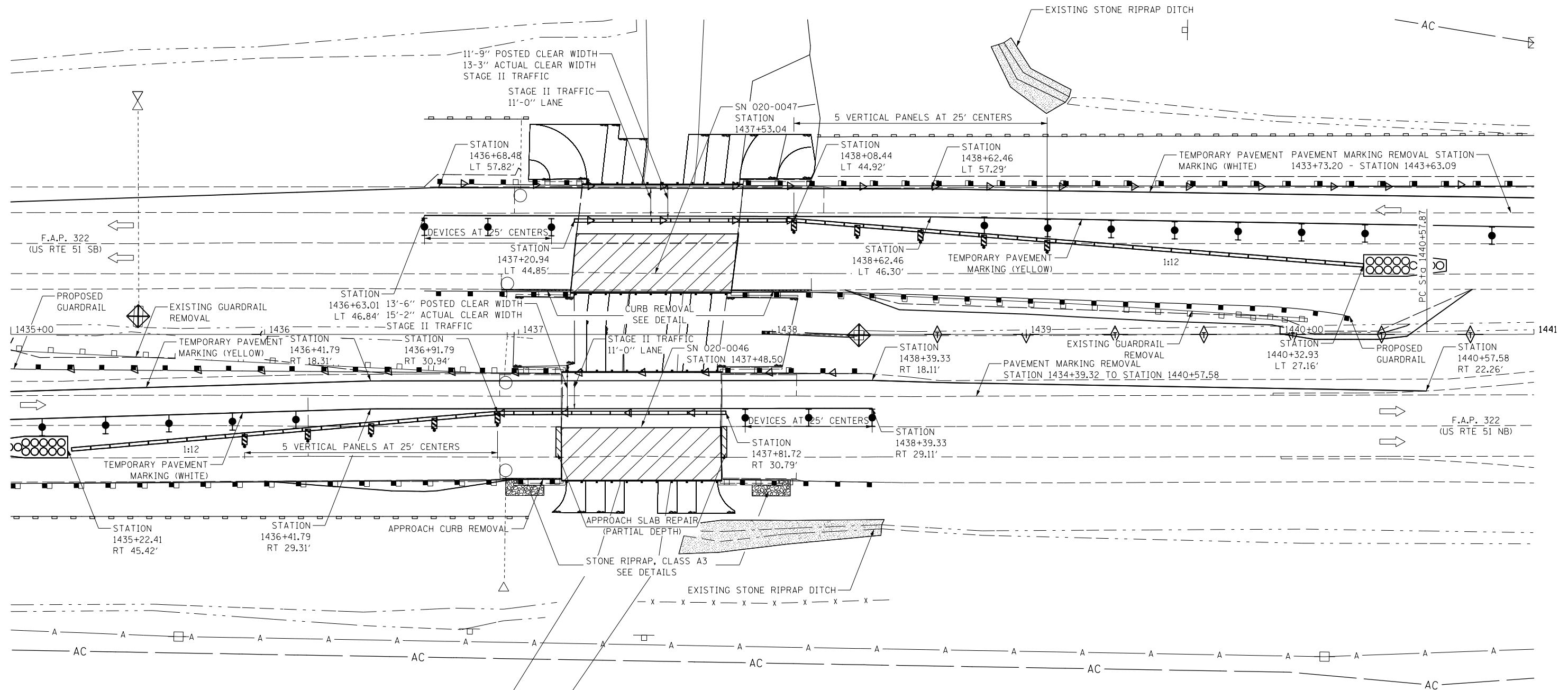
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	31
CONTRACT NO. 70606				
ILLINOIS FED. AID PROJECT				



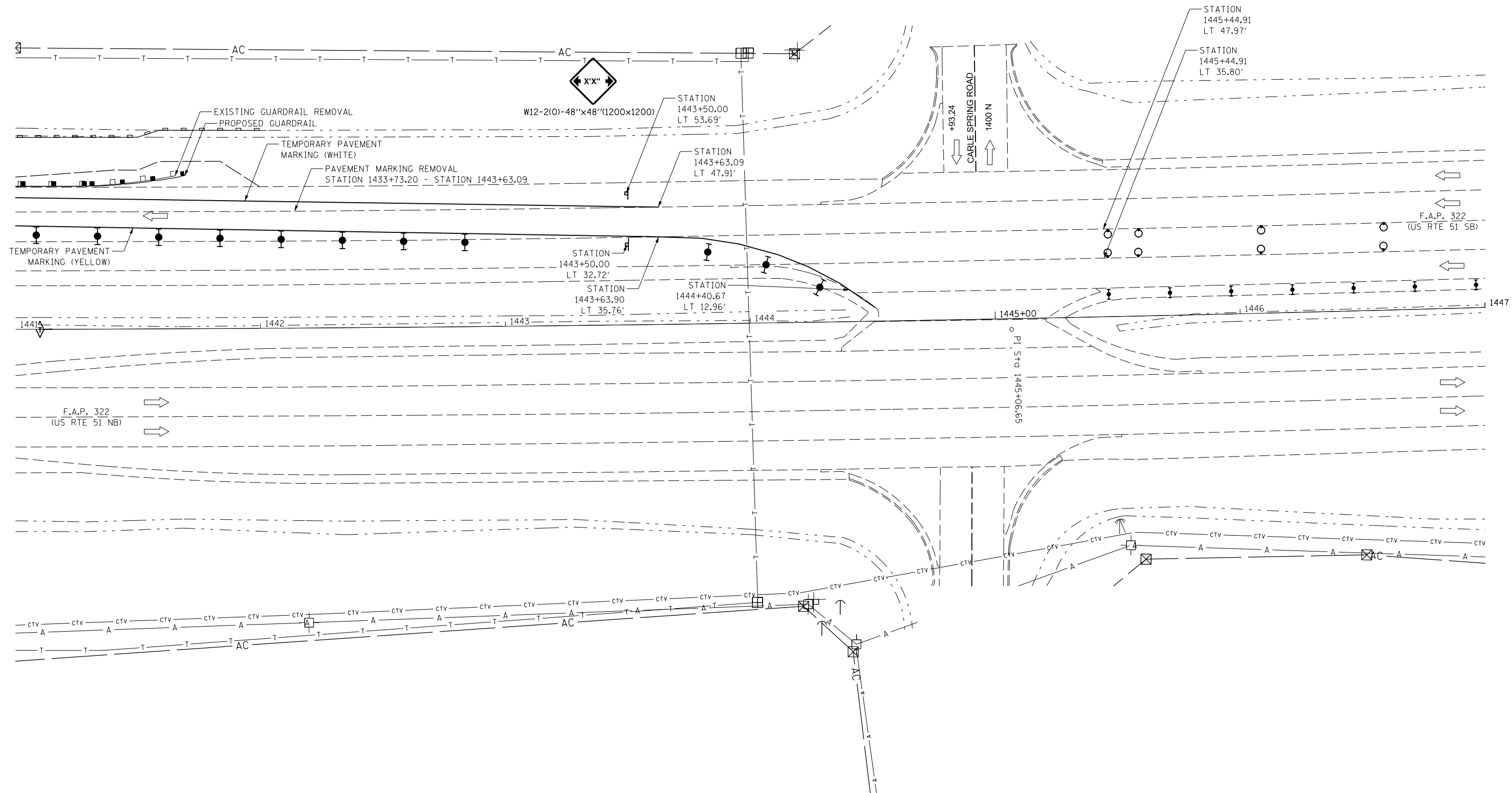
FILE NAME = c:\pwork\pwork\jayedf\d0291813\057006-sh2-staging.dgn	USER NAME = jayedf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE II TRAFFIC CONTROL			F.A.P. RTE. 322	SECTION 54B-3, 54B-2	COUNTY DEWITT	TOTAL SHEETS 89	SHEET NO. 32
	PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -					CONTRACT NO. 70606				
MODELNAME	PLOT DATE = 1/31/2014	DATE -	REVISED -	SCALE: SHEET 003 OF 008 SHEETS STA. 1429+00+00 TO STA. 1435+00.00			ILLINOIS FED. AID PROJECT					

STAGE II

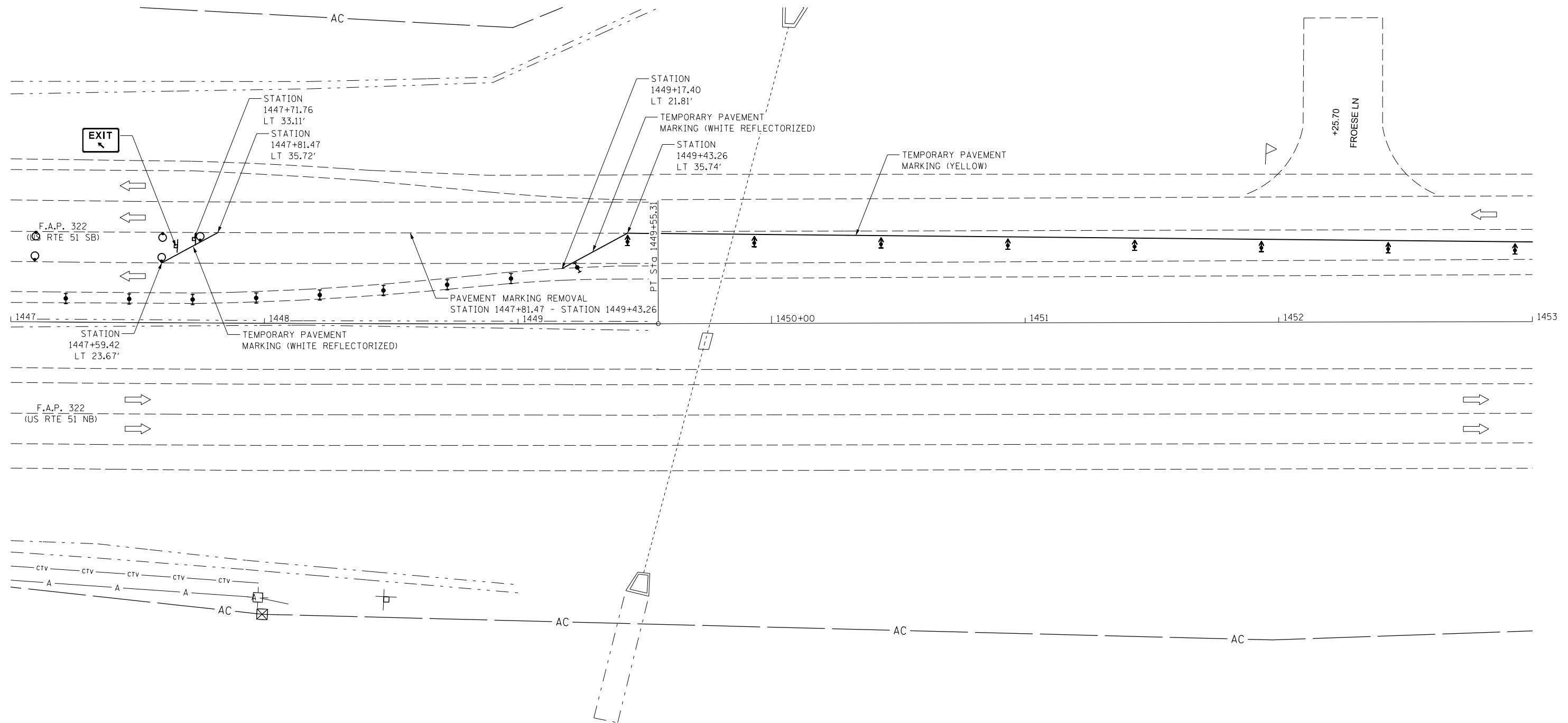
EXISTING PPC DECK BEAM CONDITION
DICTATES STAGING SEQUENCE.
PLEASE DO NOT DEVIATE FROM THIS PLAN.



FILE NAME = c:\pw\work\p1dot\jaymedf\d0291813\057006-sh2-staging.dgn	USER NAME = jaymedf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE II TRAFFIC CONTROL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	DRAWN - DFJ	REVISED -					322	54B-3, 54B-2	DEWITT	89	33
MODELNAME	PLOT DATE = 1/31/2014	CHECKED -	REVISED -	SCALE: SHEET 004 OF 008 SHEETS STA. 1435+00.00 TO STA. 1441+00.00			CONTRACT NO. 70606					
							ILLINOIS FED. AID PROJECT					



FILE NAME = c:\pwwork\pwwork\jaymedf\d0291813\057006-sh2-staging.dgn	USER NAME = jaymedf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE II TRAFFIC CONTROL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	DRAWN - DFJ	REVISED -		322	54B-3, 54B-2	DEWITT	89	34			
MODELNAME	PLOT DATE = 1/31/2014	CHECKED -	REVISED -	SCALE: SHEET 005 OF 008 SHEETS STA. 1441+00.00 TO STA. 1447+00.00			CONTRACT NO. 70606 ILLINOIS FED. AID PROJECT					



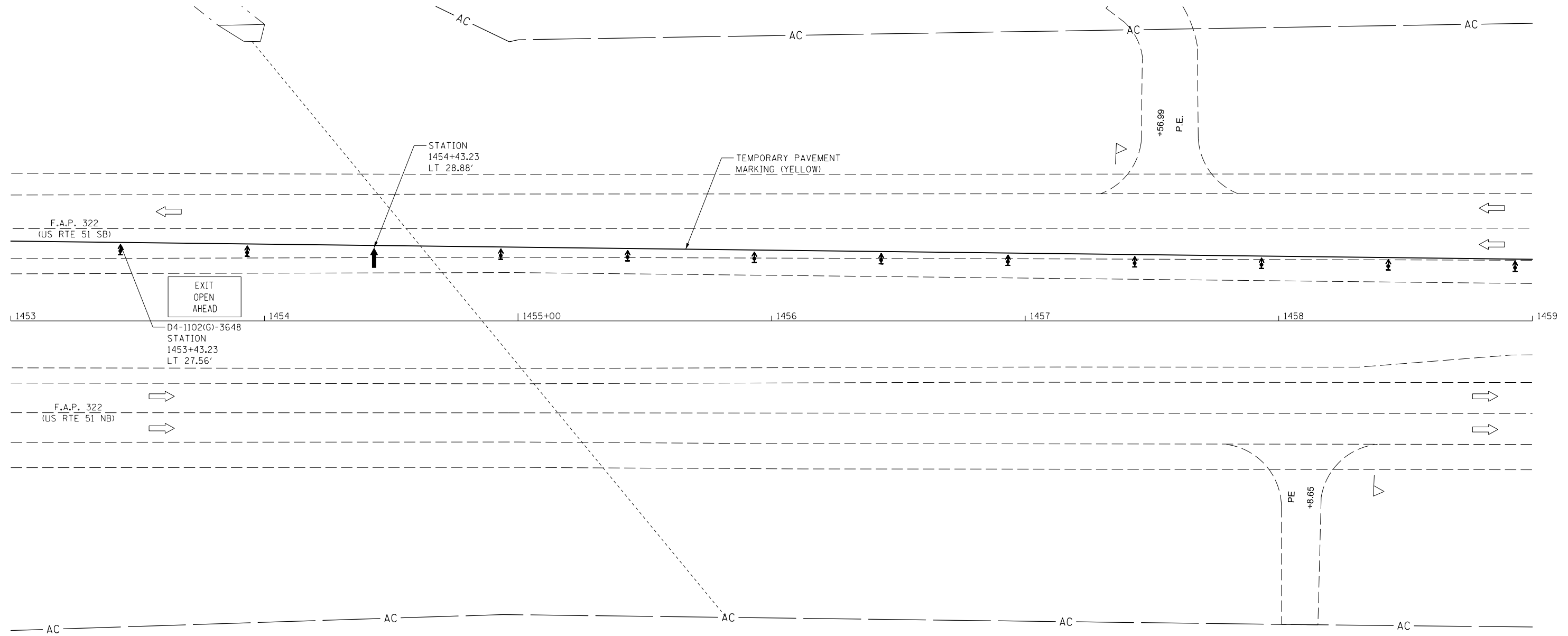
FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -
ct:\pw\work\p\idot\jaymedf\d0291813\057006-sh1-staging.dgn		DRAWN - DFJ	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 1/31/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE II TRAFFIC CONTROL

SCALE: SHEET 006 OF 008 SHEETS STA. 1447+00.00 TO STA. 1453+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	35
CONTRACT NO. 70606			ILLINOIS FED. AID PROJECT	



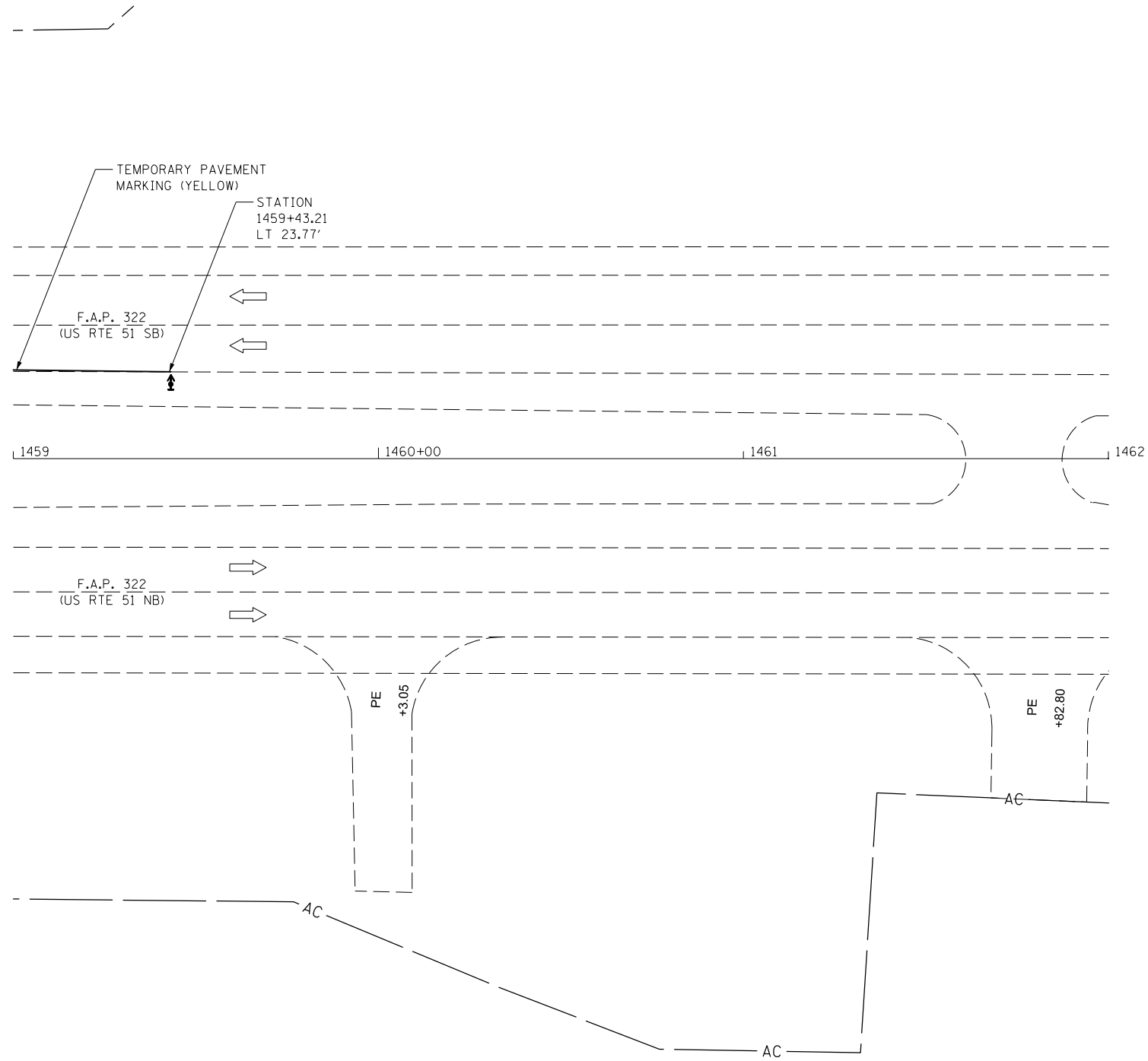
FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -
c:\pwork\pwork\jaymedf\d0291813\057006-sh2-staging.dgn		DRAWN - DFJ	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
MODELNAME	PLOT DATE = 1/31/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE II TRAFFIC CONTROL

SCALE: SHEET 007 OF 008 SHEETS STA. 1453+00.00 TO STA. 1459+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	36
CONTRACT NO. 70606				
ILLINOIS FED. AID PROJECT				



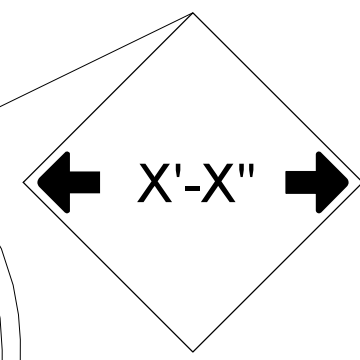
FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -
c:\pwork\pwork\jaymedf\d0291813\057006-sh1-staging.dgn		DRAWN - DFJ	REVISED -
MODELNAME	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/31/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

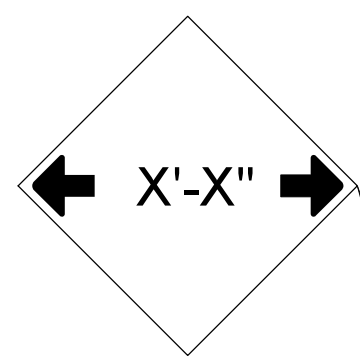
STAGE II TRAFFIC CONTROL

SCALE: SHEET 008 OF 008 SHEETS STA. 1459+00.00 TO STA. 1462+00.00

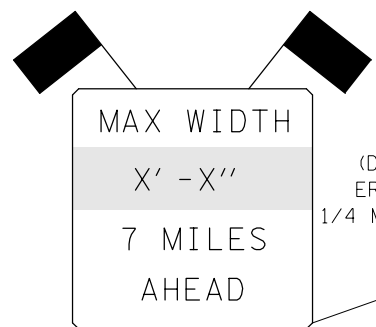
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	37
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70606	



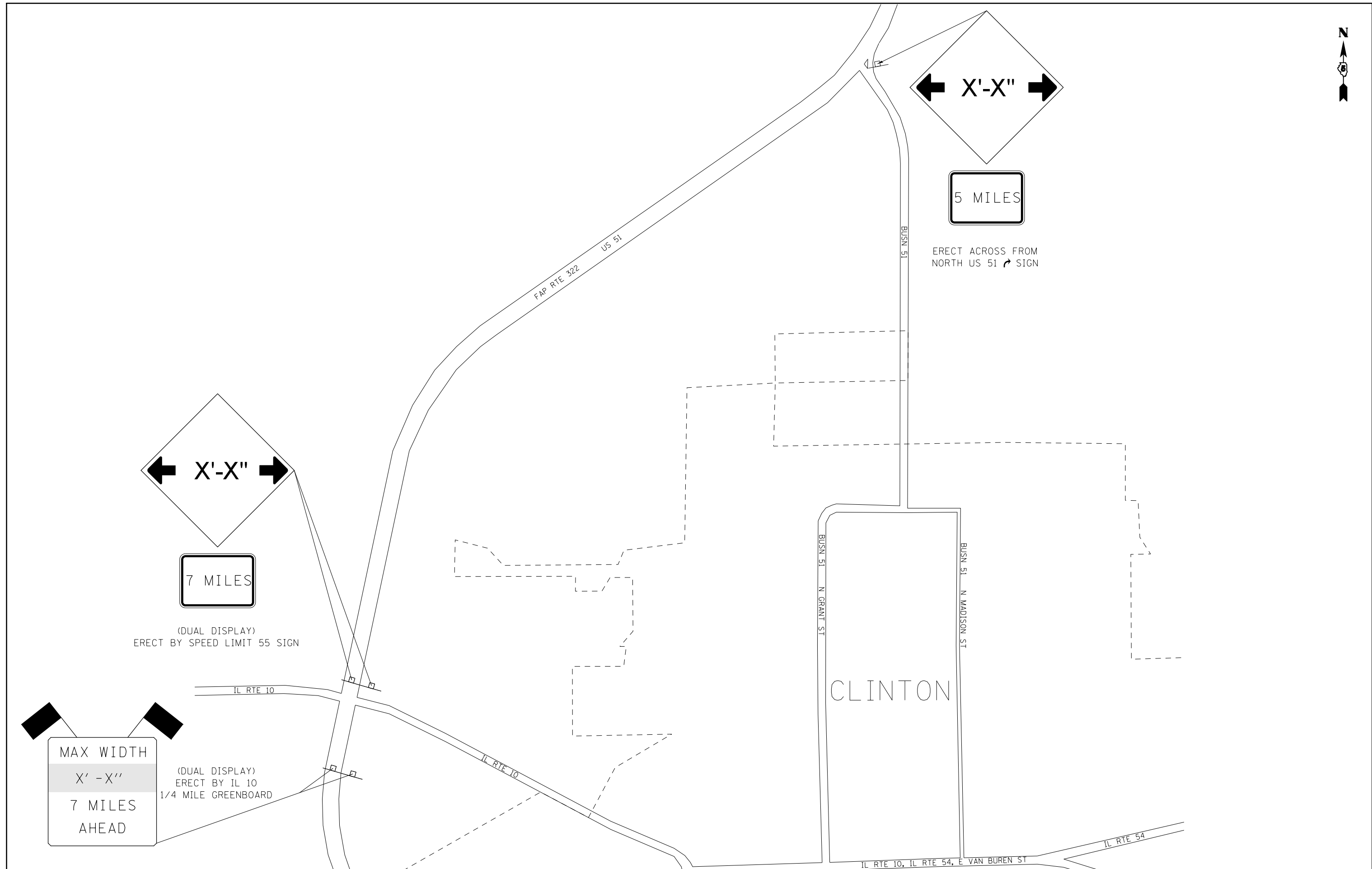
ERECT ACROSS FROM
NORTH US 51 ↻ SIGN



(DUAL DISPLAY)
ERECT BY SPEED LIMIT 55 SIGN



(DUAL DISPLAY)
ERECT BY IL 10
1/4 MILE GREENBOARD



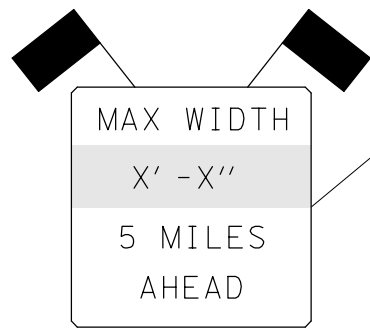
FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -
c:\pwork\pwork\jaymedf\d0291813\057006-sh1-details.dgn		DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 1/31/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

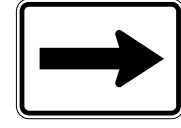
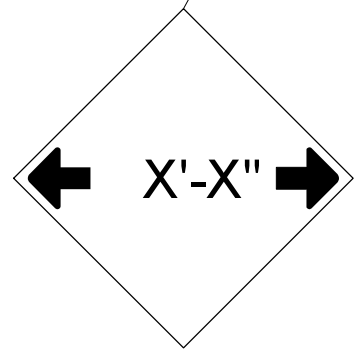
**WIDTH RESTRICTION SIGNING
US 51 NORTHBOUND**

SCALE: SHEET 001 OF 003 SHEETS STA. TO STA.

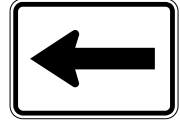
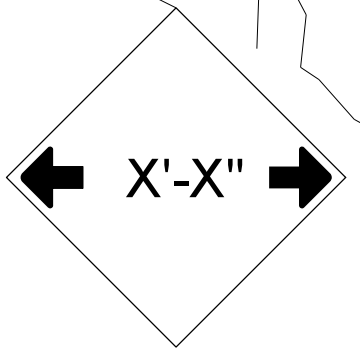
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	38
CONTRACT NO. 70606				
ILLINOIS FED. AID PROJECT				



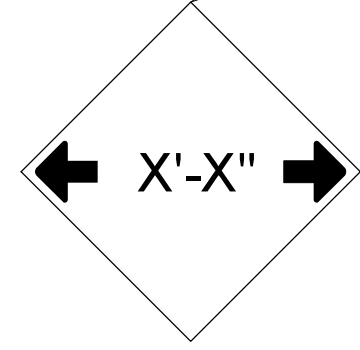
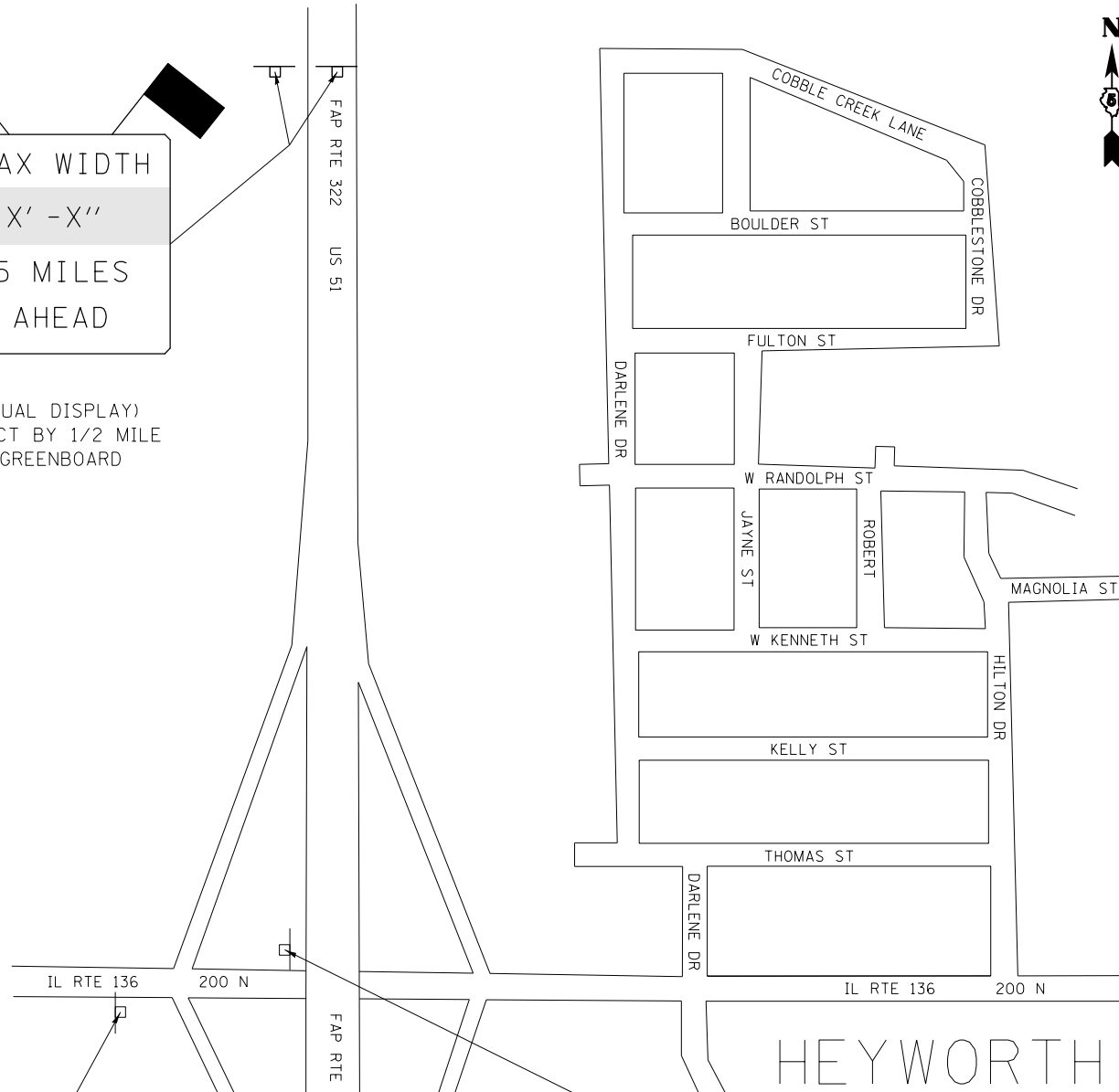
(DUAL DISPLAY)
ERECT BY 1/2 MILE
GREENBOARD



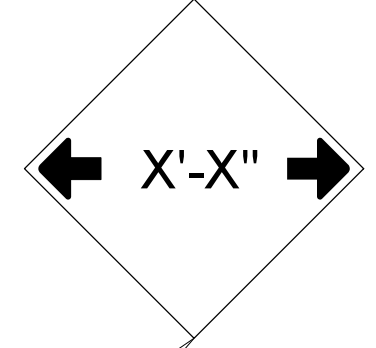
ERECT BESIDE
GREENBOARD



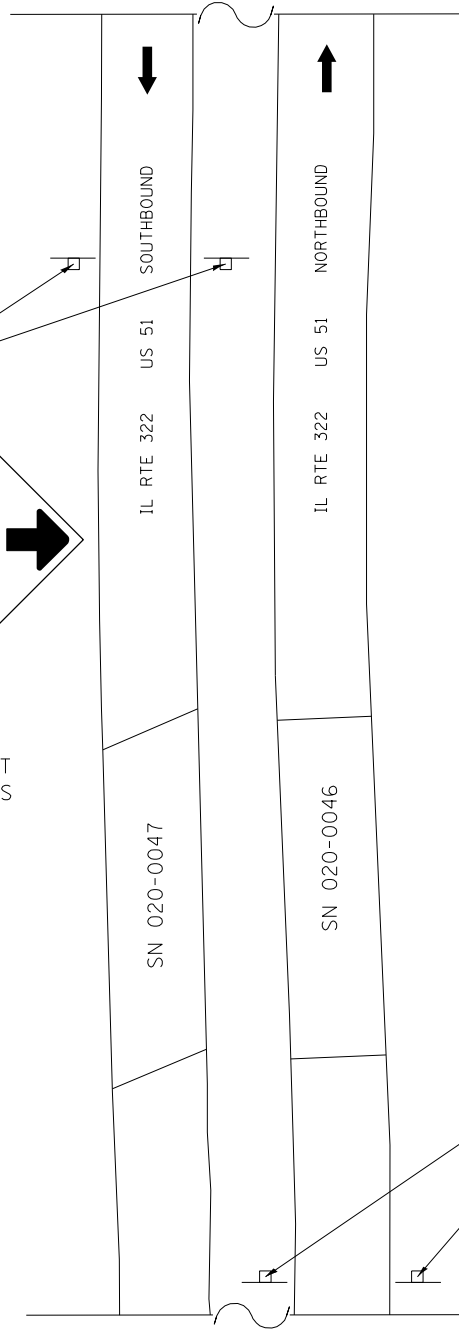
ERECT JUST PRIOR
TO SPEED LIMIT 45
SIGN & GREENBOARD



DUAL DISPLAY
ERECT 500' PAST
LANE DROP SIGNS



DUAL DISPLAY
ERECT 500' PAST
LANE DROP SIGNS



SIGN POSTING NOTES:

NORTHBOUND	13' - 6"	FOR	STAGE I
NORTHBOUND	13' - 6"	FOR	STAGE II
SOUTHBOUND	13' - 6"	FOR	STAGE I
SOUTHBOUND	11' - 9"	FOR	STAGE II

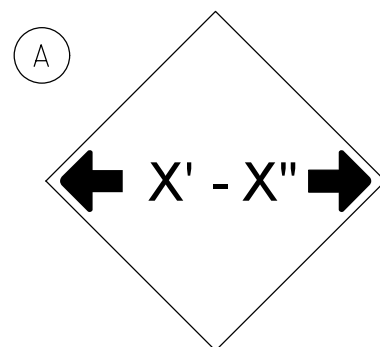
FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -
ct:\pw\work\p\dot\jaymedf\d0291813\05700006-sh1-details.dgn		DRAWN -	REVISED -
MODELNAME	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/31/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGNING
US 51 SOUTHBOUND

SCALE: SHEET 002 OF 003 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	39
CONTRACT NO. 70606				
ILLINOIS FED. AID PROJECT				

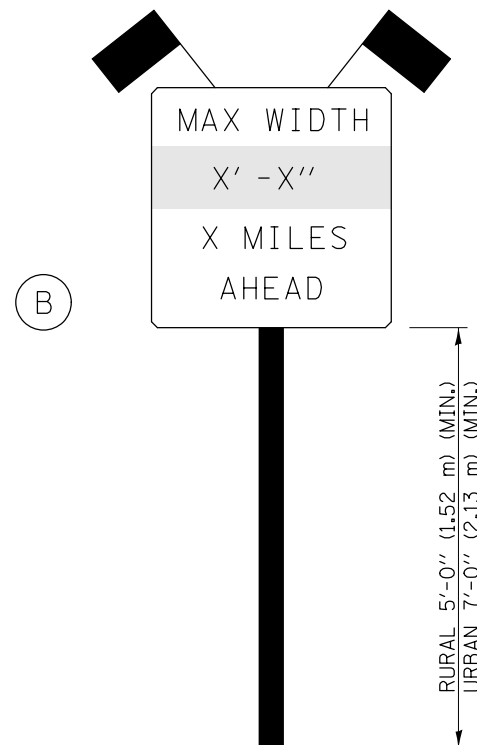


W12-2(0)-48"x48"(1200x1200)

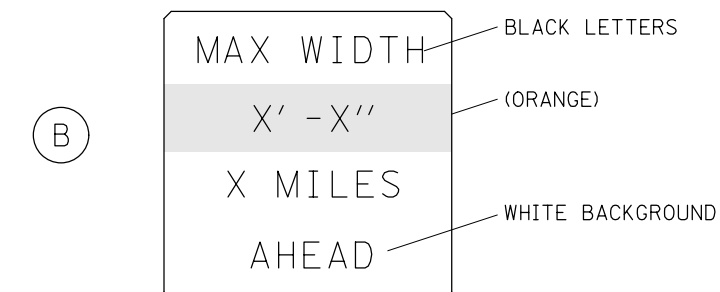
NORTHBOUND	13' -6" FOR STAGE I
NORTHBOUND	13' -6" FOR STAGE II
SOUTHBOUND	13' -6" FOR STAGE I
SOUTHBOUND	11' -9" FOR STAGE II

SIGN (A) 2 SIGNS - W12-2(0)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



SIGN PANEL, TYPE II



W12-I103(0)-48"x48"(1200x1200)
"D" LETTERS/NUMBERS

NORTHBOUND	13' -6" FOR STAGE I
NORTHBOUND	13' -6" FOR STAGE II
SOUTHBOUND	13' -6" FOR STAGE I
SOUTHBOUND	11' -9" FOR STAGE II

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.
7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS BOOK.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED - 03/11 - KJI
et:\pwork\pwork\jaymedf\d0291813\057006-sh-t-details.dgn		DRAWN -	REVISED - 05/08
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - 10/08 - KJI
	PLOT DATE = 1/31/2014	DATE -	REVISED - 7/09 - KJI

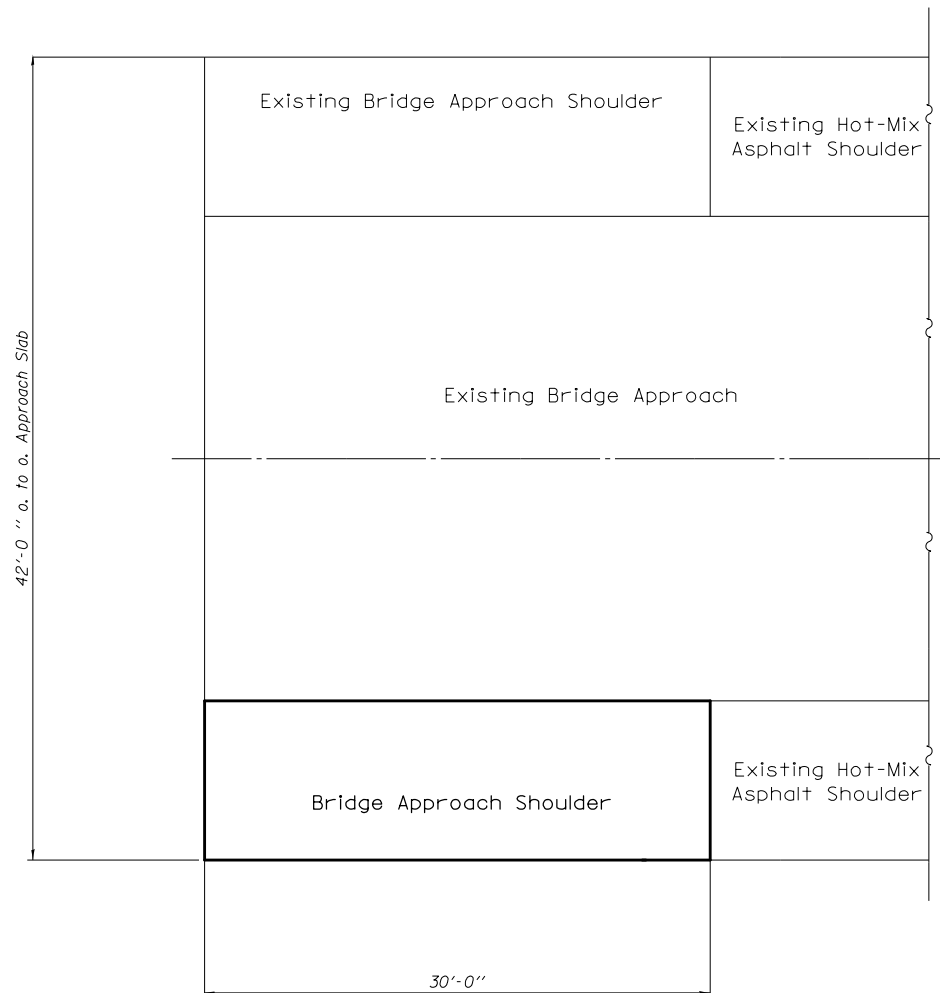
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGNING

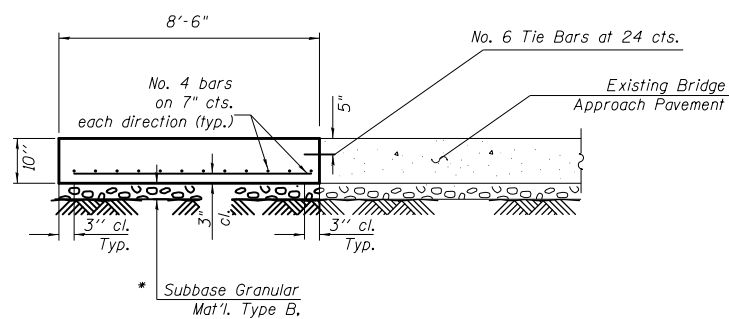
SCALE: SHEET NO. 003 OF 003 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. X7200201

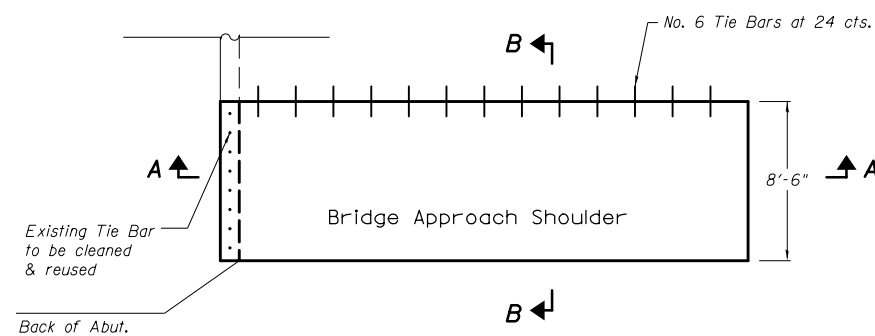
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	40
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 70606	



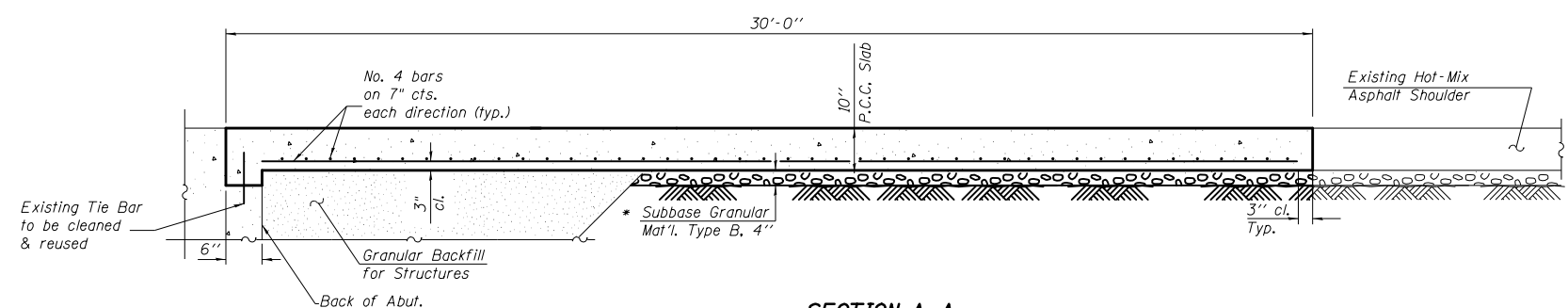
GENERAL PLAN



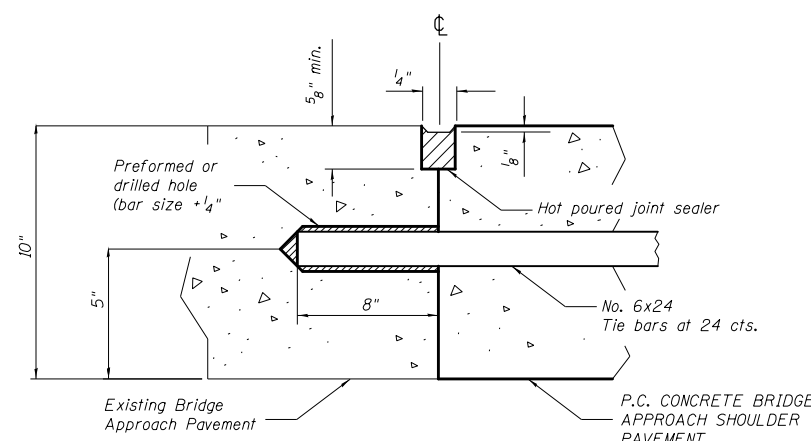
SECTION B-B



TYPICAL DETAIL PLAN (w/o Wingwall)



SECTION A-A



LONGITUDINAL CONSTRUCTION JOINT (TIE BAR GROUTED IN PLACE)

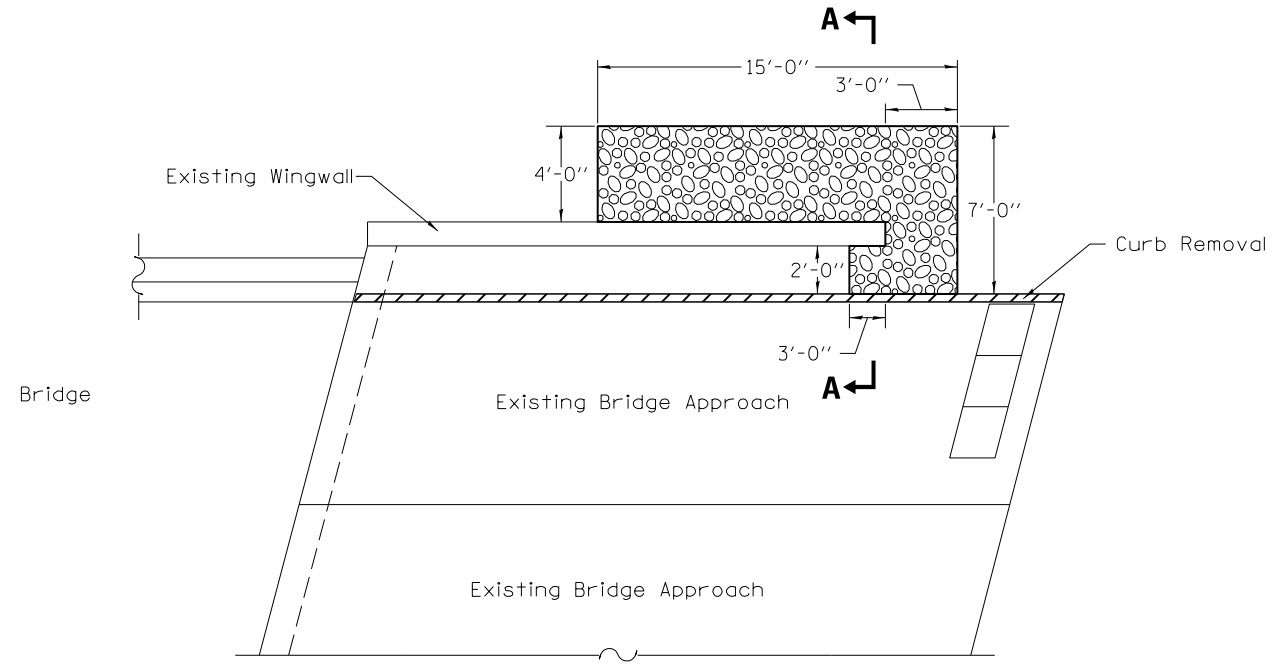
BILL OF MATERIAL

Bar Size	No.	Length	Shape
#6	14	2'-0"	—
#4	14	8'-0"	—
#4	51	29'-3"	—
Concrete Superstructure	Cu. Yd.	8.0	
Reinforcement Bars, Epoxy Coated	Pound	1130	

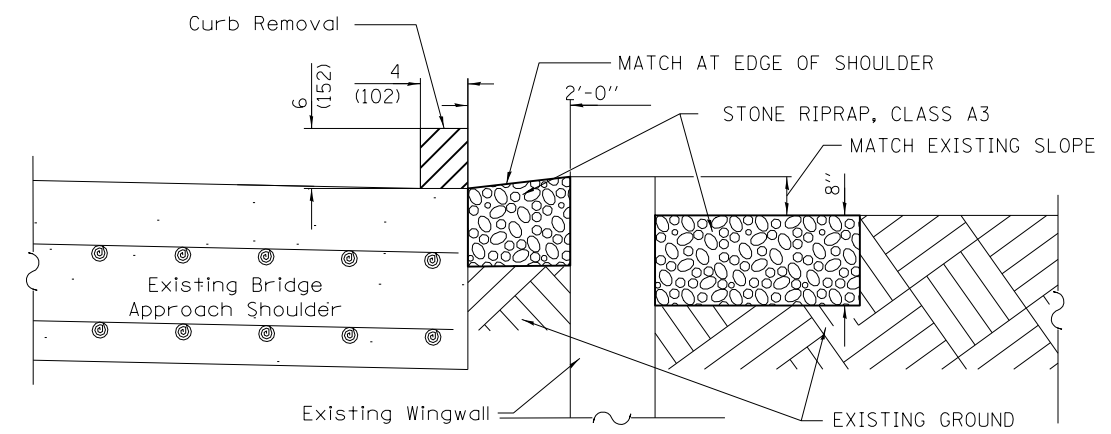
* Cost included with P.C. CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT.

Notes:
 Bridge approach shoulder pavement will be measured in place and paid for in SQ YD as P.C. CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT, which shall include the cost of any subgrade preparation, expansion joints, tie bars, epoxy coated reinforcement bars and joint fillers.
 For placement of drainage elements on existing construction with existing rigid pavement, substitute expansion anchor ties for tie bars.
 For nonrigid pavements or monolithic construction of pcc slab and shoulder, omit tie bars.

WINGWALL RIPRAP DETAILS



TYPICAL DETAIL PLAN
(With Wingwall)

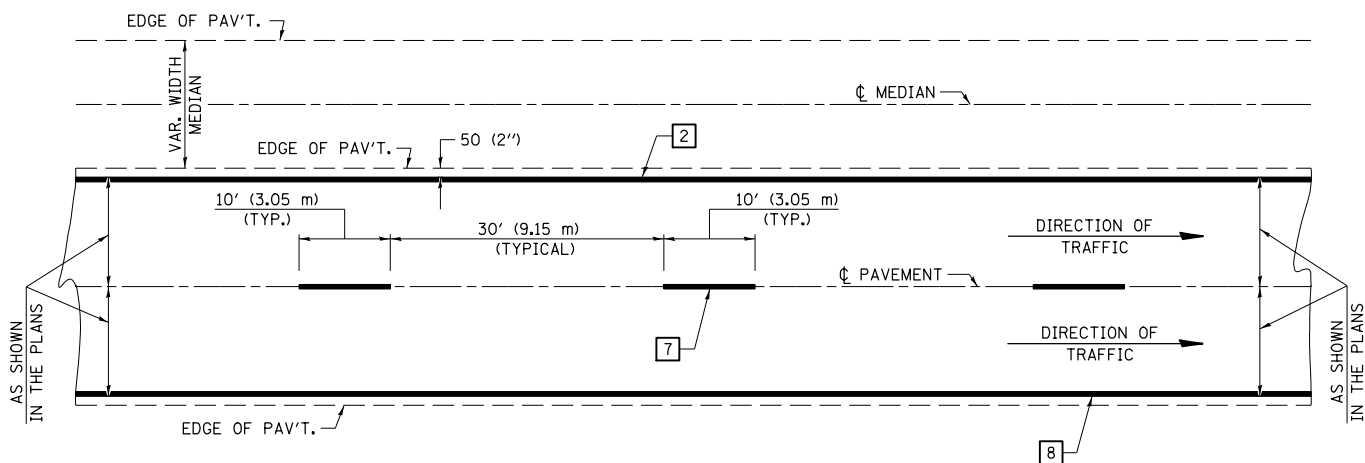


SECTION A-A
(With Wingwall)

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WINGWALL RIPRAP DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pwork\pwork\jaymedf\d0291813\05700006-sh1-details.dgn		DRAWN -	REVISED -		SCALE:	SHEET 001 OF 001 SHEETS	STA.	TO STA.	322	54B-3, 54B-2	DEWITT	89	43
MODELNAME	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 70606								
	PLOT DATE = 1/31/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

CENTERLINE INTERSTATE OR MULTI-LANE TWO WAY DIVIDED HIGHWAY

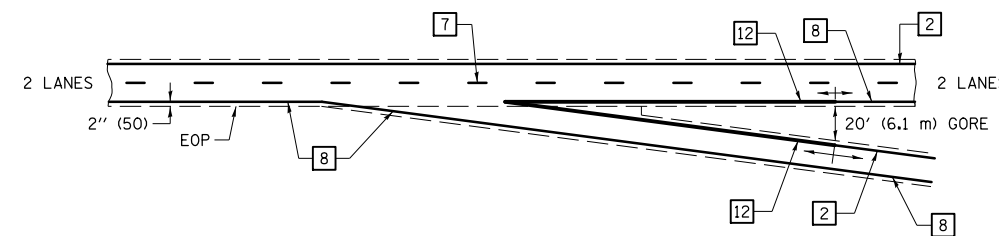


NOTE: PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.

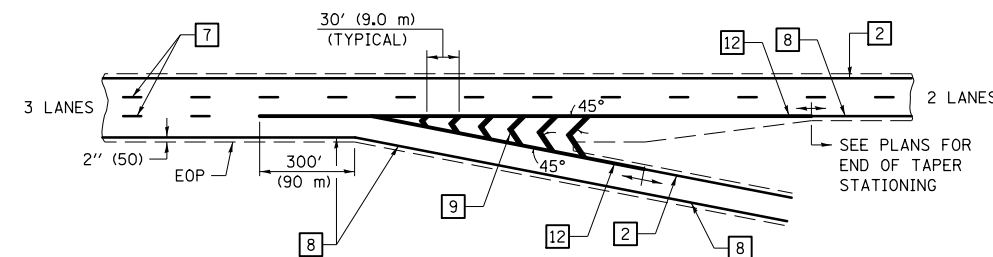
NOTE: SEE ARTICLES 780.04 & 781.03 FOR LOCATION OF STRIPES AND MARKERS RELATIVE TO EDGES OR JOINTS.

FOR RAISED REFLECTIVE PAVEMENT MARKERS, REFER TO STANDARD 781001.

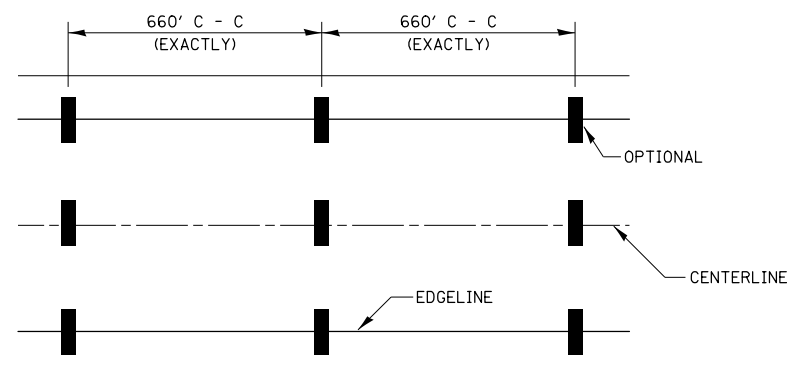
TYPICAL EXIT RAMP TERMINAL



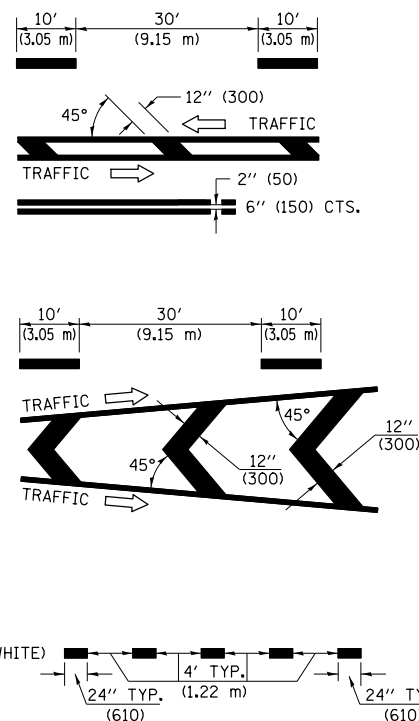
EXIT RAMP TERMINAL with EXCLUSIVE (auxiliary) LANE



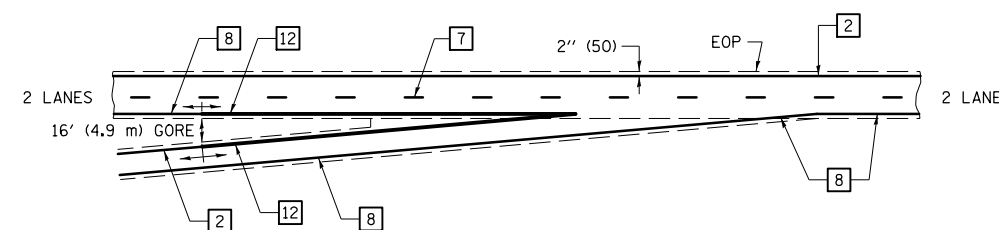
TYPICAL PAVEMENT MARKING LEGEND



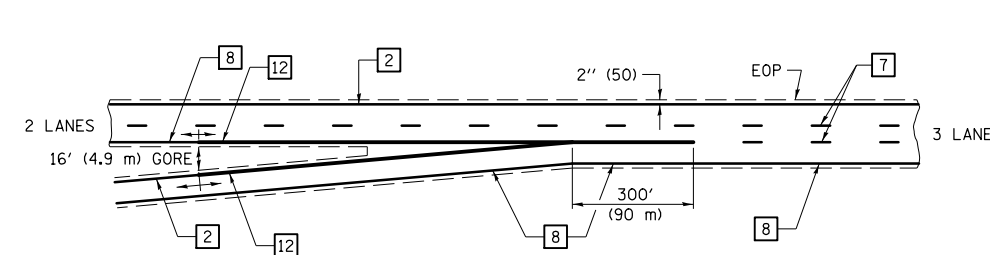
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)



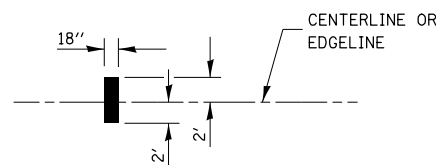
TYPICAL ENTRANCE RAMP TERMINAL



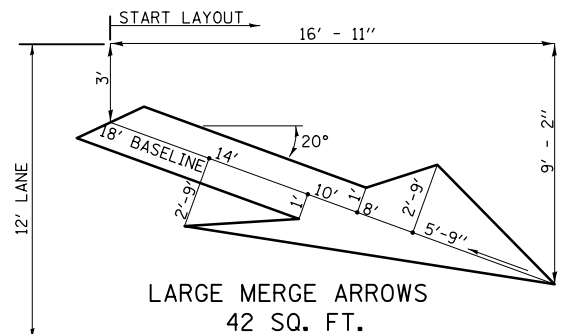
ENTRANCE RAMP TERMINAL with EXCLUSIVE LANE



IT WILL BE NECESSARY TO HAVE A REPRESENTATIVE OF THE STATE POLICE PRESENT SO THAT THE ACCURACY OF MEASUREMENT CAN BE ATTESTED TO IN COURT.



AERIAL SPEED CHECK ZONES



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED - 11/06
ei:\pw\work\p\idot\jaymedf\d0291813\057006\06-sh1-details.dgn		DRAWN -	REVISED -
	PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/31/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING (INTERSTATE & MULTI-LANE APPLICATIONS)

SCALE: SHEET NO. OF SHEETS STA. TO STA.

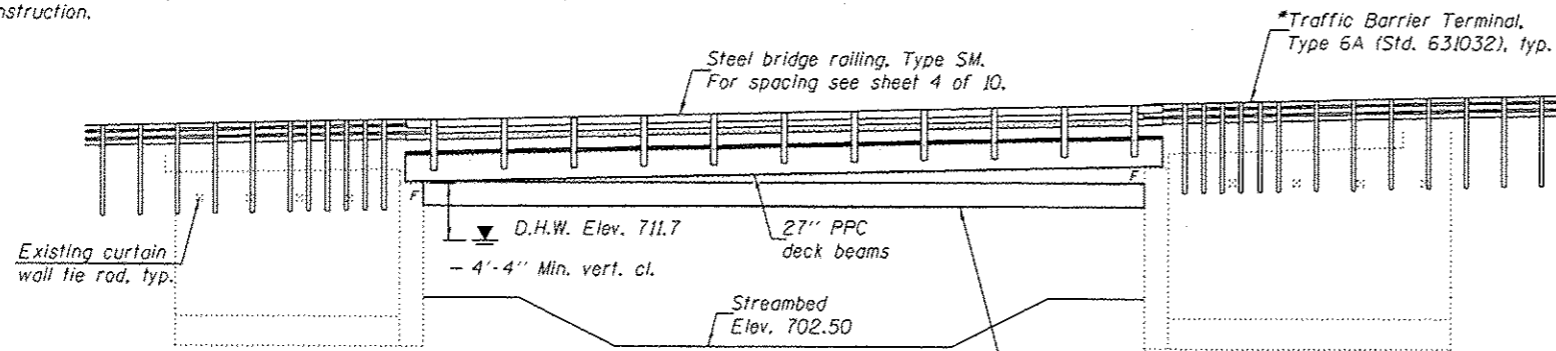
DISTRICT 5 DETAIL NO. 7800BBBB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	44
CONTRACT NO. 70606				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

Benchmark: Chiseled "a" on top of SE wingwall of S.N. 020-0047; Sta. 1437+21.63, 14.79' Lt., Elev. 718.78

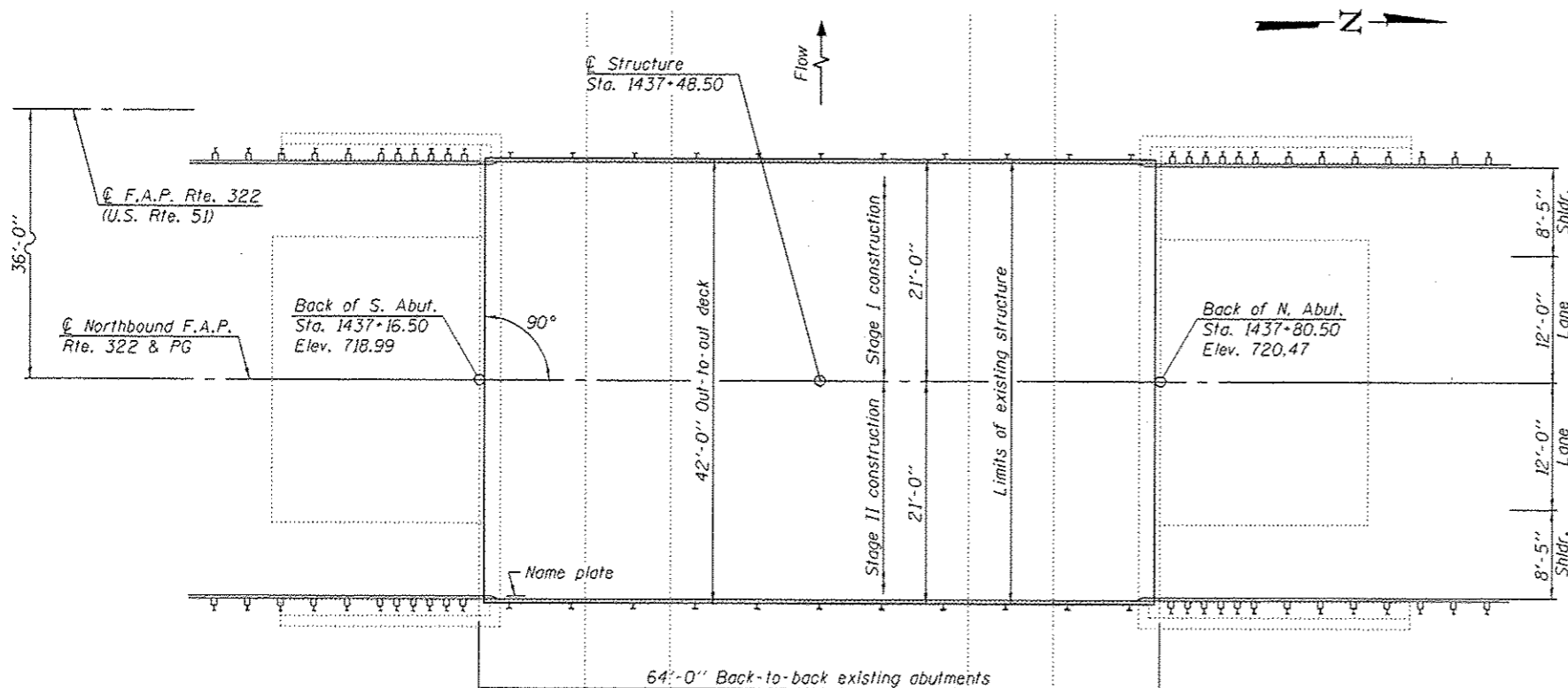
Existing Structure: S.N. 020-0046 built in 1980 as F.A. Route 52, Section 54BR-1 at Sta. 1423+20.60. The existing structure consists of a single span prestressed concrete deck beam superstructure supported on closed abutments with metal shell piles. Back-to-back of abutment length is 64'-0" and out-to-out width of deck is 42'-0". The existing superstructure is to be removed and replaced. Traffic is to be maintained using stage construction.

No Salvage.

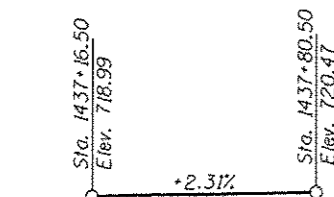


ELEVATION

*The terminal posts shall be spaced to miss the existing curtain wall tie rods and shall be verified by the Contractor, and as directed by the Engineer.



PLAN



PROFILE GRADE

(Along @ Northbound F.A.P. Rte. 322)



EXPIRES 11-30-2014

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	S. Abut.	N. Abut.
	702.91	702.89

WATERWAY INFORMATION

Drainage Area = 8.30 mi.²

		Existing Low Grade Elev. 717.49 @ Sta. 1435+37		Proposed Low Grade Elev. 717.49 @ Sta. 1435+37					
Flood	Freq. Yr.	0 C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.	
	10								
Design	50	1680	425	425	711.7	0.7	0.8	712.4	712.5
Base	100	1930	456	456	712.1	0.8	0.8	712.9	712.9
Max. Calc.	500	2504	534	534	713.1	1.0	1.0	714.1	714.1

Information per 1985 as-built construction plans. Elevations adjusted from NGVD29 (assumed) to NAVD88.

SEISMIC DATA

1500 Year return per AASHTO Standard Specifications)
 Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.046g
 Site Coefficient (S) = 1.5

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2013 Interims
 1995 Seismic Retrofitting Manual for Highway Bridges FHWA-RD-94/052

DESIGN STRESSES

FIELD & EXISTING UNITS

f'c = 3,500 psi
 fy = 60,000 psi (reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
 f'ci = 5,000 psi
 fpu = 270,000 psi (1/2" φ low lax strands)
 fpbt = 201,960 psi (1/2" φ low lax strands)

INDEX OF SHEETS

- 1 General Plan & Elevation
- 2 Stage Construction Details
- 3 Temporary Concrete Barrier for Stage Construction
- 4 Superstructure
- 5 Superstructure Details
- 6 Steel Railing, Type SM with Hot-Mix Asphalt Wearing Surface
- 7 27"x 36" PPC Deck Beam
- 8 27"x 36" PPC Deck Beam Details
- 9 Concrete Removal
- 10 Structural Repair of Concrete

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

TOTAL BILL OF MATERIAL

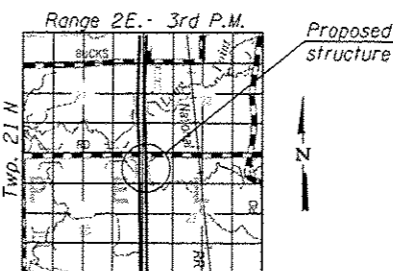
ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		0.7	0.7
Concrete Structures	Cu. Yd.		0.7	0.7
Hot-Mix Asphalt Surface Course, Mix "D", N90	Ton	34.5		34.5
Portland Cement Mortar Fairing Course	Foot	815		815
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	2632		2632
Reinforcement Bars, Epoxy Coated	Pound	20		20
Steel Railing, Type SM	Foot	126		126
Name Plates	Each	1		1
Waterproofing Membrane System	Sq. Yd.	298		298
Temporary Wall Bracing System	L. Sum		0.5	0.5
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.		72	72

STATION 1437+48.50
 REBUILT 20 BY
 STATE OF ILLINOIS
 F.A.P. RTE. 322 SEC. 54B-2
 LOADING HL-93
 STRUCTURE NO. 020-0046

NAME PLATE

See Std. 515001

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost Included with Name Plates.



LOCATION SKETCH

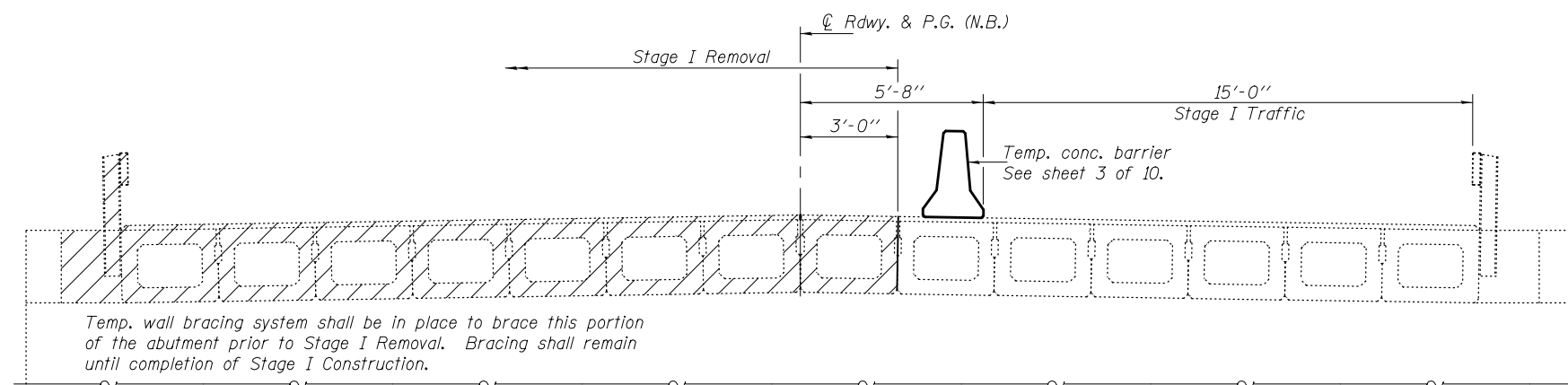
GENERAL PLAN & ELEVATION
NORTHBOUND U.S. ROUTE 51 OVER
TRIBUTARY OF LONG POINT CREEK
F.A.P. RTE. 322 - SEC. 54B-2

DEWITT COUNTY
STATION 1437+48.50
STRUCTURE NO. 020-0046

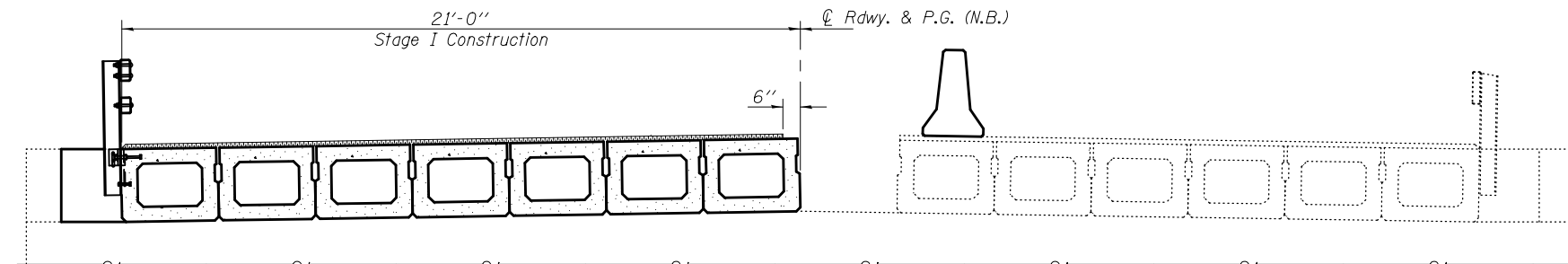
DESIGNED - [Signature]	EXAMINED - [Signature]	DATE - MARCH 24, 2014
CHECKED - [Signature]	PASSED - [Signature]	REVISED -
DRAWN - H.T. duong		REVISED -
CHECKED - [Signature]		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

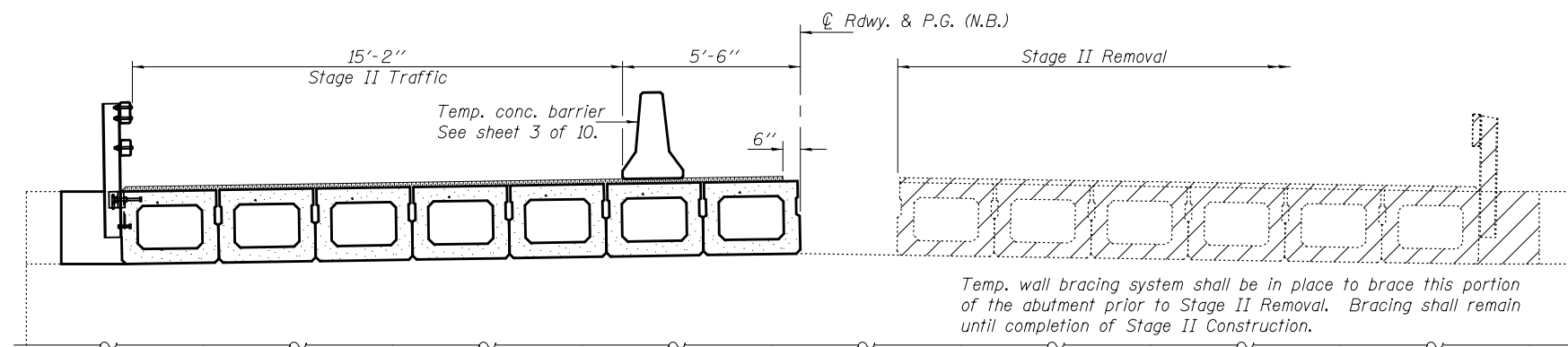
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	45
			CONTRACT NO. 70606	



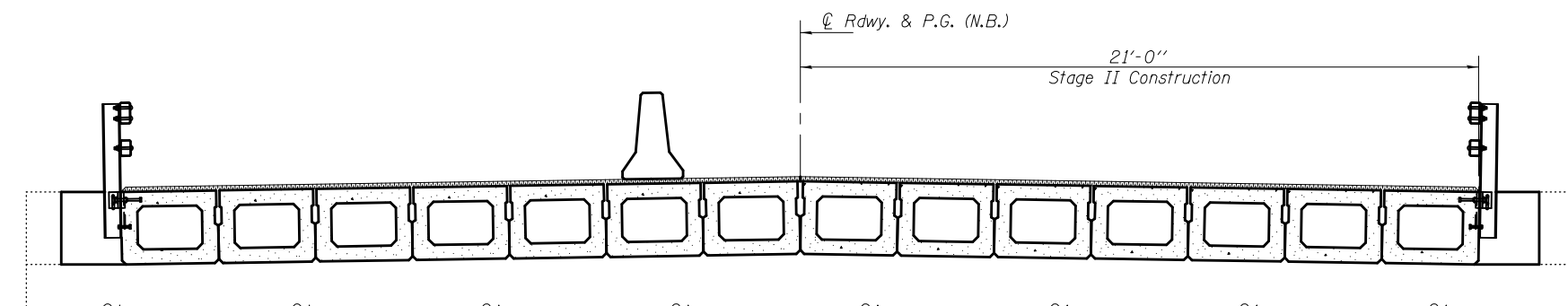
STAGE I REMOVAL



STAGE I CONSTRUCTION

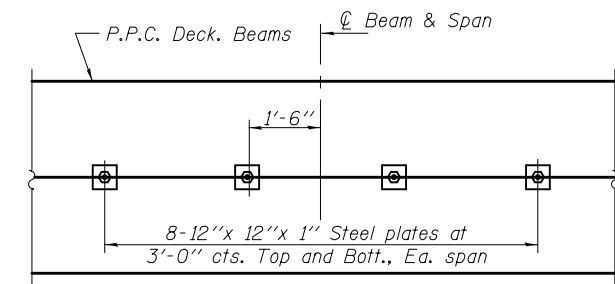


STAGE II REMOVAL

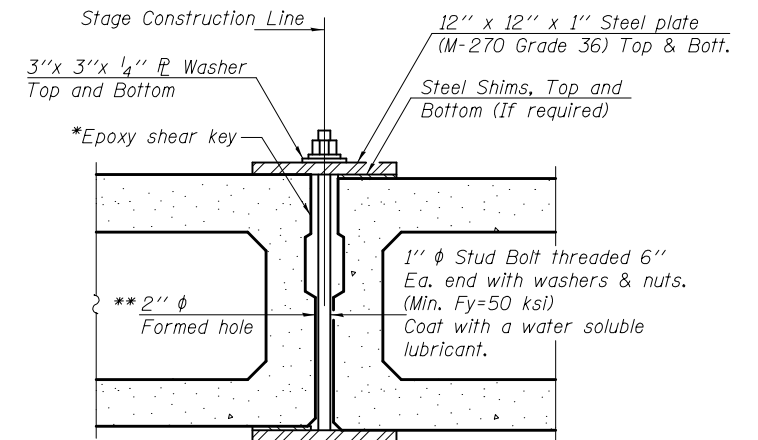


STAGE II CONSTRUCTION

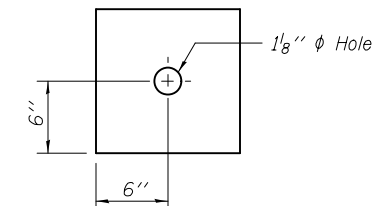
Notes: All staging sections are looking North.
 Hatched area indicates removal of existing superstructure.
 For quantity of temporary concrete barrier, see Roadway Plans.
 Wearing surface removal included in the cost of Removal of Existing Superstructures.



PLAN



SECTION

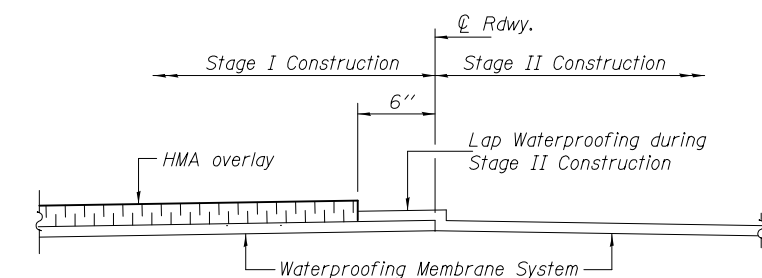


CLAMPING PLATE

SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

Shear key clamping device to be removed prior to installation of waterproofing and HMA overlay.
 Cost included with Precast Prestressed Concrete Deck Beams.
 See Stage Construction Details for traffic lanes.

*Epoxy Resin Binder System. See Special Provisions.
 **Cast semicircular recesses in the sides of each beam adjacent to the stage construction line. These recesses should align to form a hole at the appropriate locations for the clamping device bolts.



WATERPROOFING TREATMENT AT STAGE CONSTRUCTION

DESIGNED - Josue Ortiz-Varela
 CHECKED - Meseret Silma
 DRAWN - h.t. duong
 CHECKED - JOV/MS/GRA

EXAMINED - *Jayne F. [Signature]*
 PASSED - *Carl [Signature]*
 ACTING ENGINEER OF BRIDGE DESIGN
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - MARCH 24, 2014
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

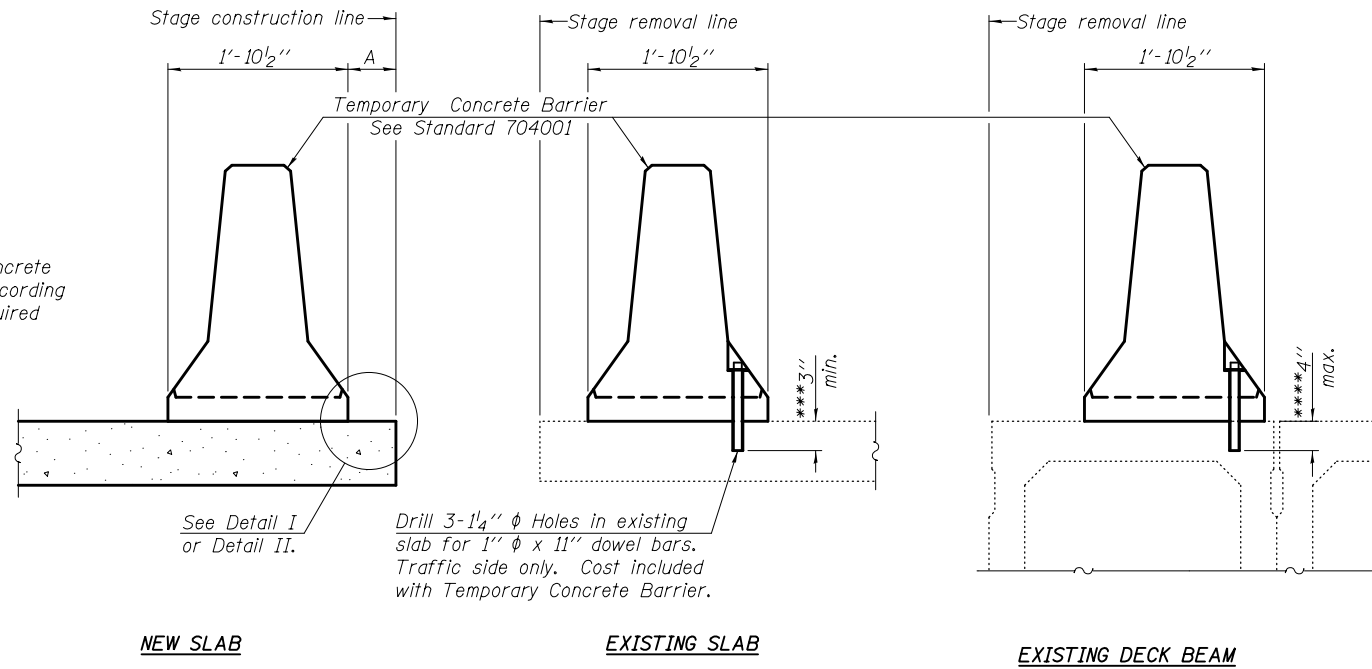
**STAGE CONSTRUCTION DETAILS
 STRUCTURE NO. 020-0046**

SHEET NO. 2 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	46
CONTRACT NO. 70606				

ILLINOIS FED. AID PROJECT

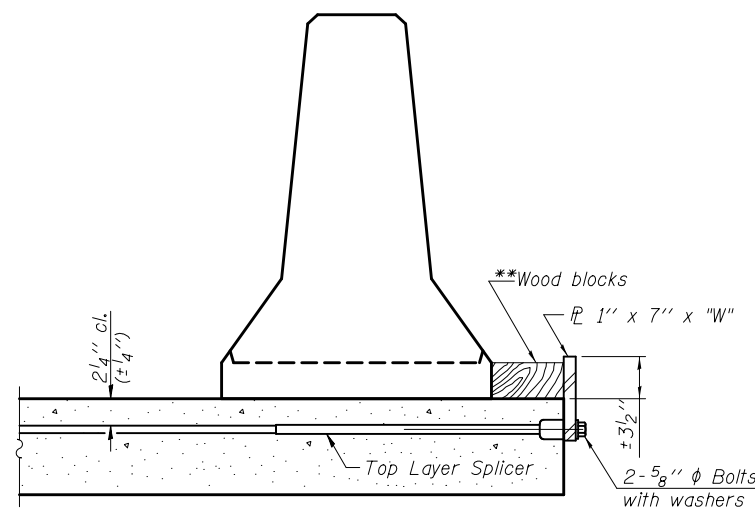
When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



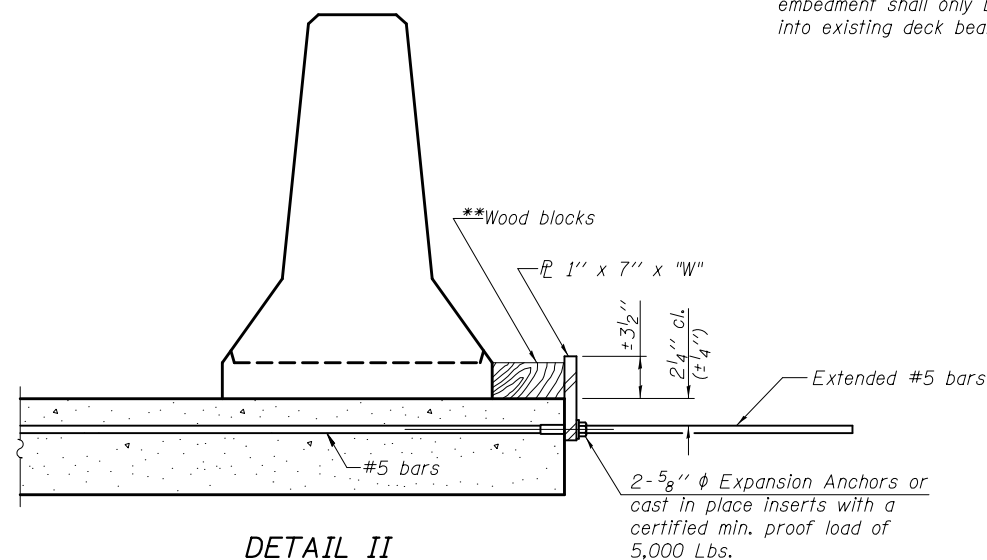
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete.
If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

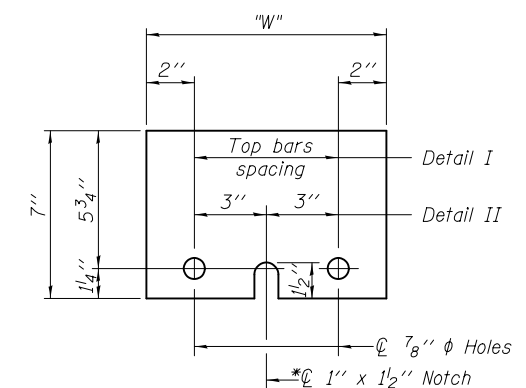
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PLATE 1" x 7" x "W"

* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

NOTES

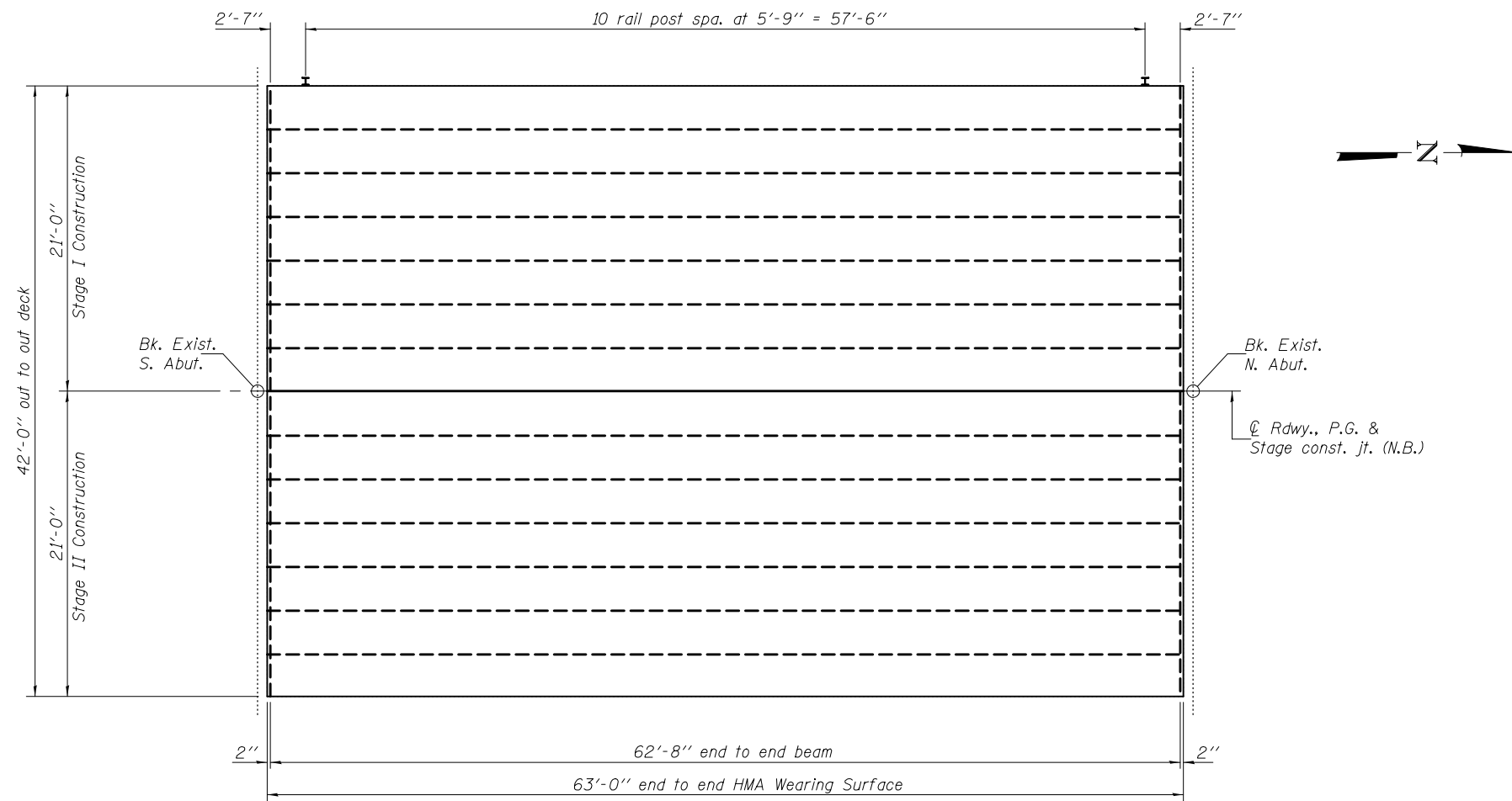
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate ϕ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel PL to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ϕ of each barrier panel.

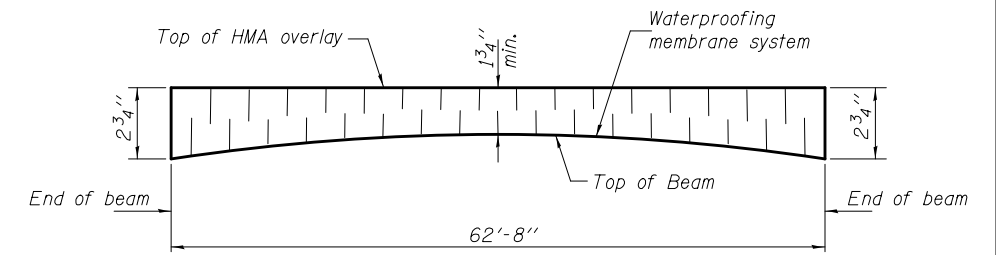
Cost of anchorage is included with Temporary Concrete Barrier.
The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

R-27 7-1-10

DESIGNED - Josue Ortiz-Varela	EXAMINED - <i>Jayne F. [Signature]</i>	DATE - MARCH 24, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE NO. 020-0046	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED - Meseret Sima	PASSED - <i>Carl [Signature]</i>	REVISED -			322	54B-3, 54B-2	DEWITT	89	47	
DRAWN - h.t. duong	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			CONTRACT NO. 70606					
CHECKED - JQV/MS/GRA					SHEET NO. 3 OF 10 SHEETS					



PLAN



ANTICIPATED HMA WEARING SURFACE PROFILE

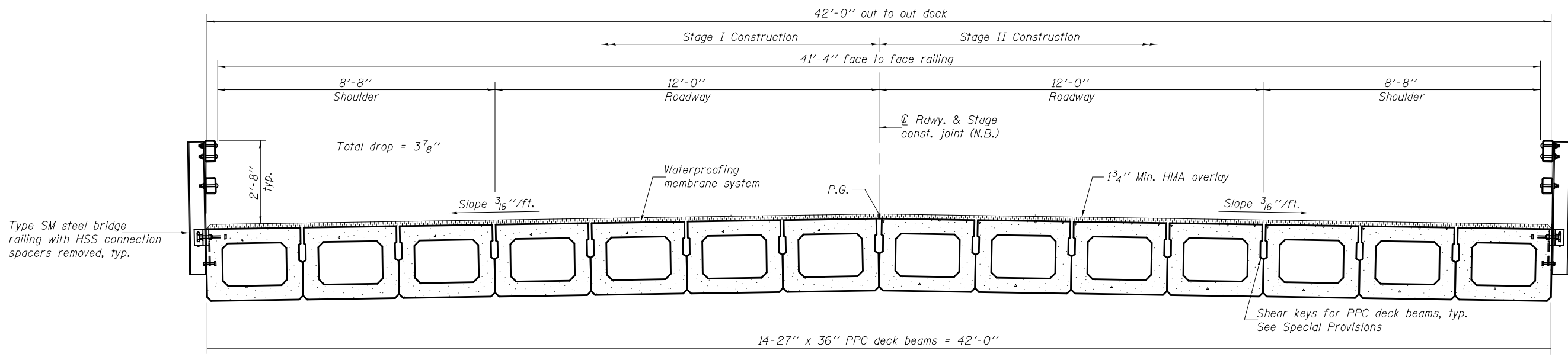
(For information only)

See sheet 1 of 10 for profile grade. Adjustment of the profile grade may be necessary to maintain the minimum 1 3/4" surface thickness. If necessary, transition back to profile grade over entire length of beam. Notify Engineer if adjustment greater than 1/2" is required.

Notes: See sheets 7 & 8 of 10 for deck beam details & Bill of Material. See sheet 5 of 10 for section thru existing abutment.

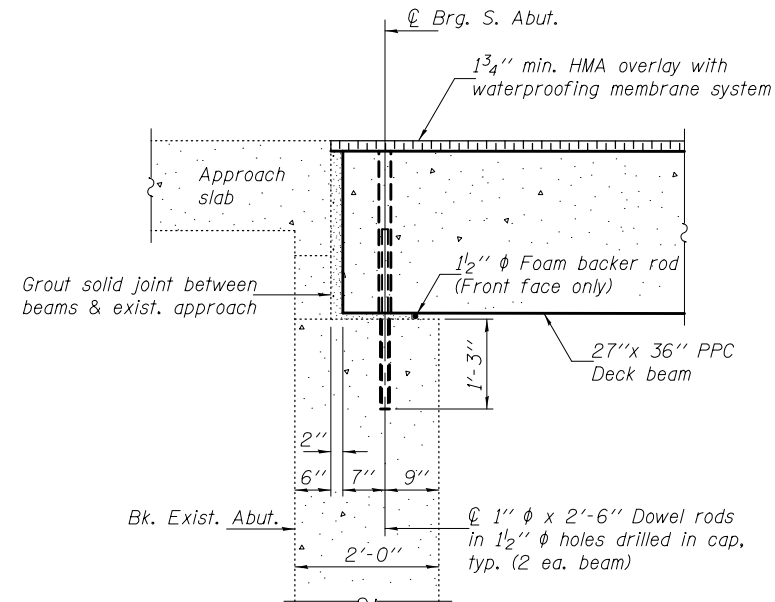
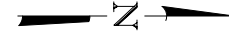
BILL OF MATERIAL

Item	Unit	Quantity
Hot-Mix Asphalt Surface Course, Mix "D", N90	Tons	34.5
Waterproofing Membrane System	Sq. Yd.	298
Portland Cement Mortar Fairing Course	Foot	815

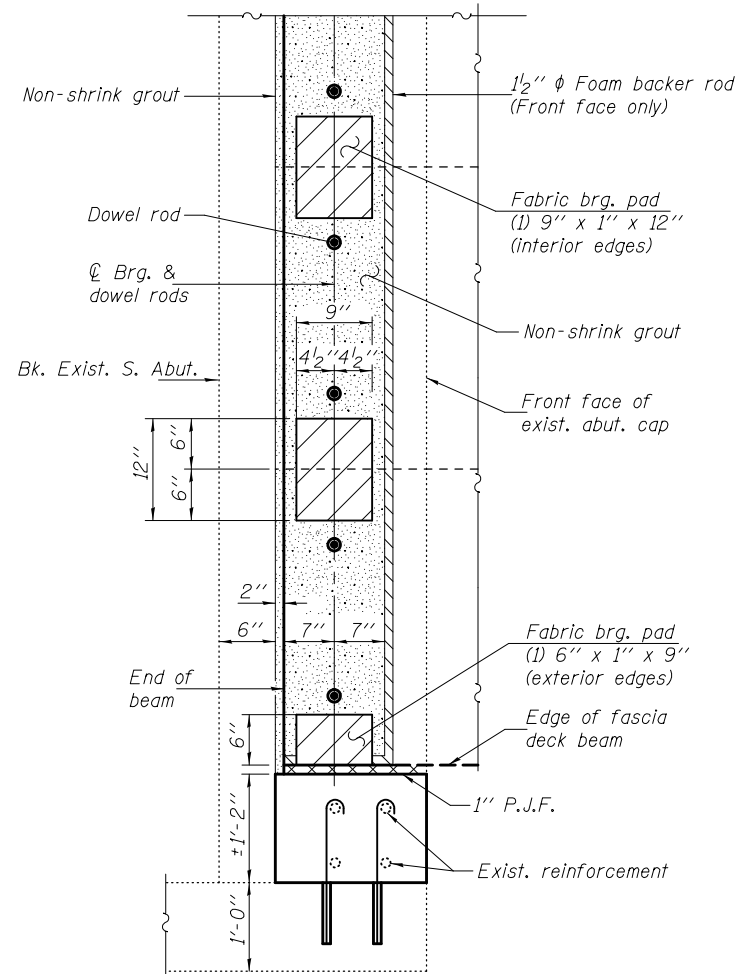


CROSS SECTION

(Looking North)



**SECTION THRU
EXISTING ABUTMENT**



PLAN

(S. Abut. shown; N. Abut. similar)

Notes: Burn existing dowel rods flush with existing abutment surfaces. Cost included with Removal of Existing Superstructures.
The bearing seat surfaces shall be adjusted by shimming the bearing to assure firm and even bearing prior to placing grout. 2-1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shown shall be provided for each beam.
All non-shrink grout is included in the cost of PPC Deck Beams 27".

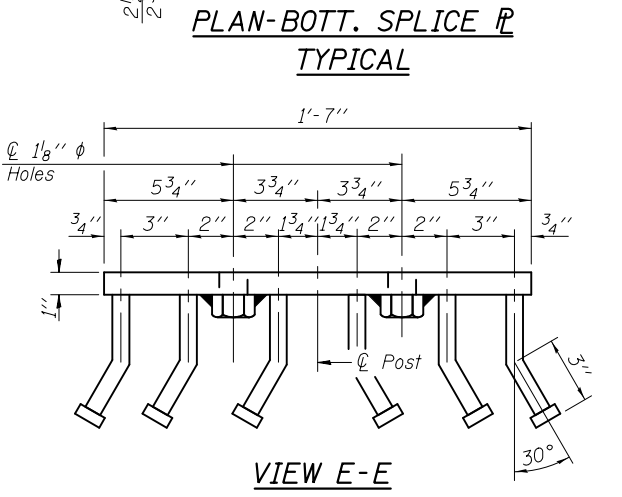
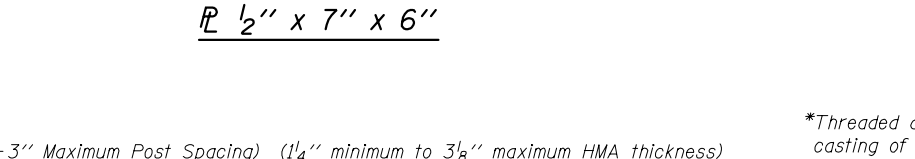
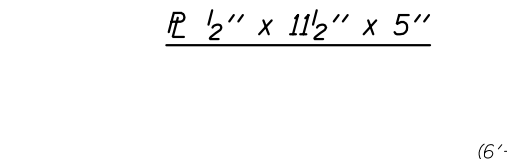
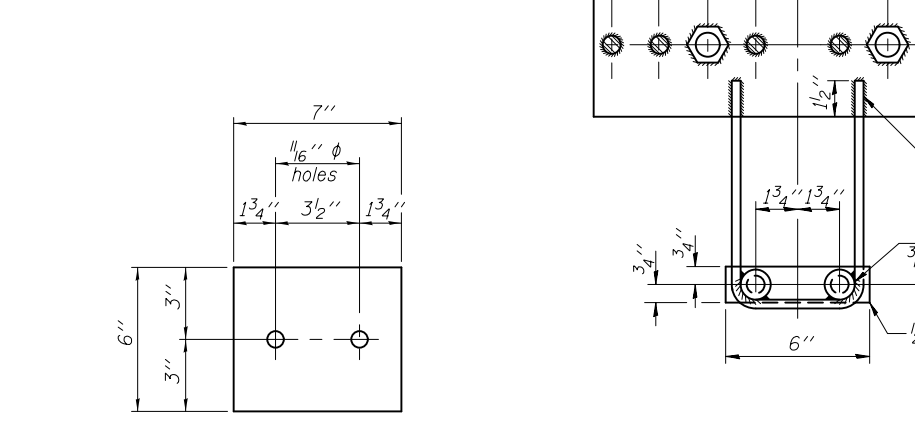
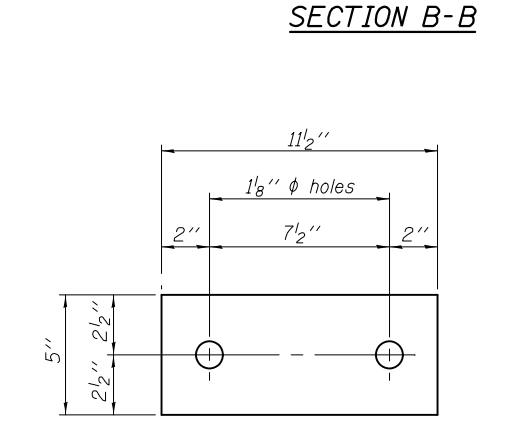
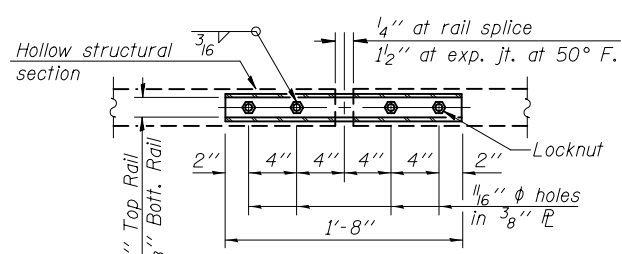
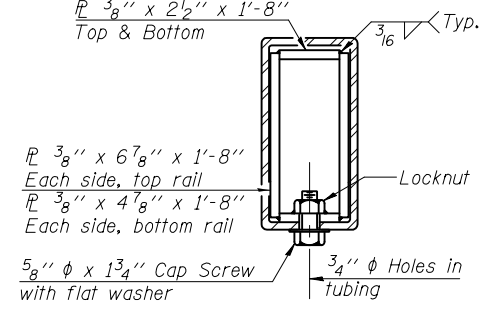
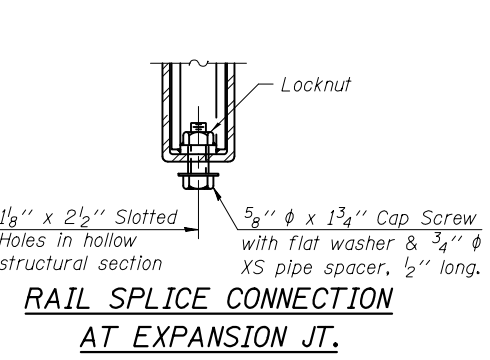
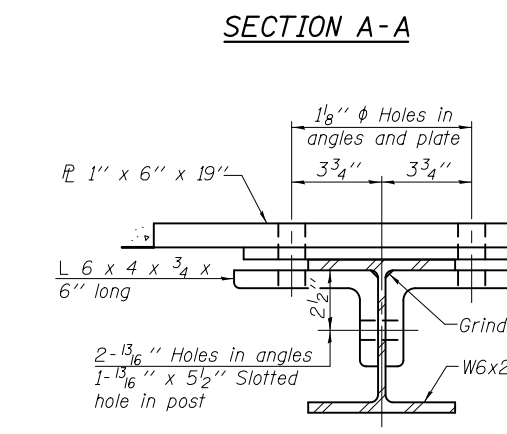
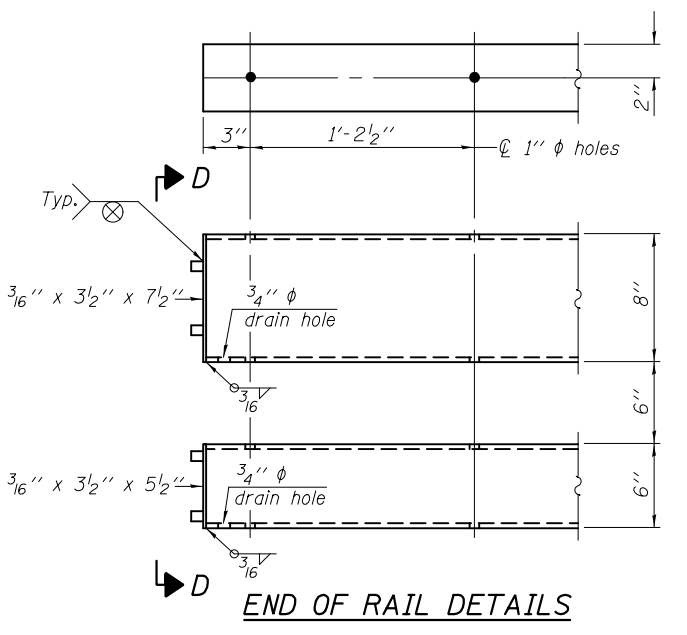
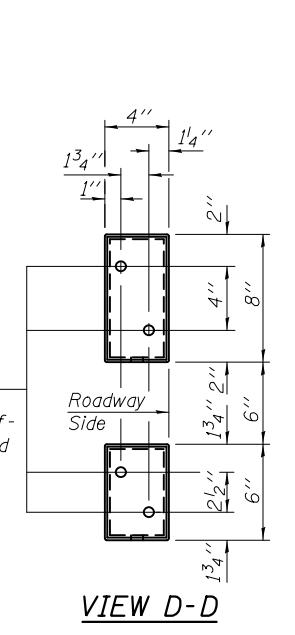
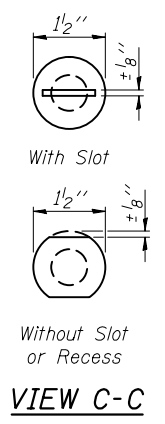
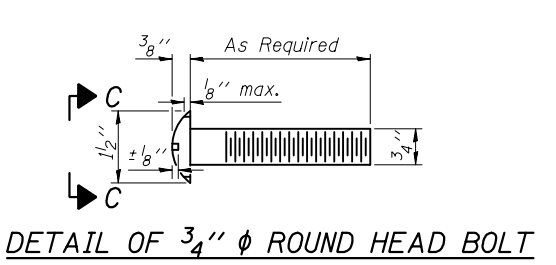
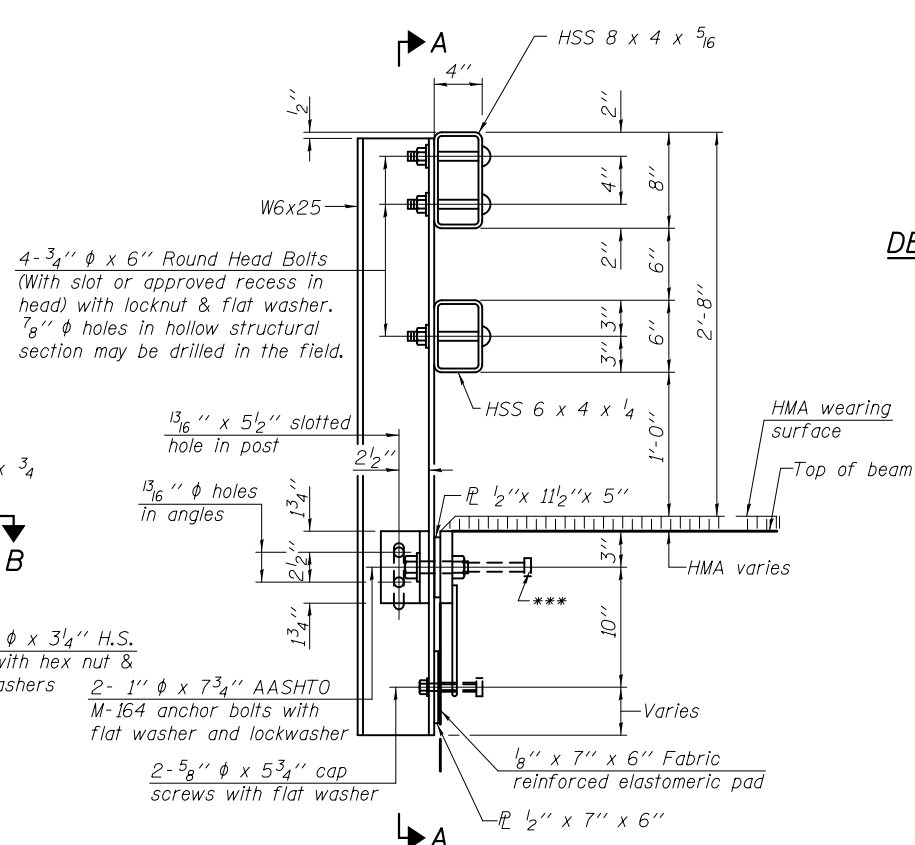
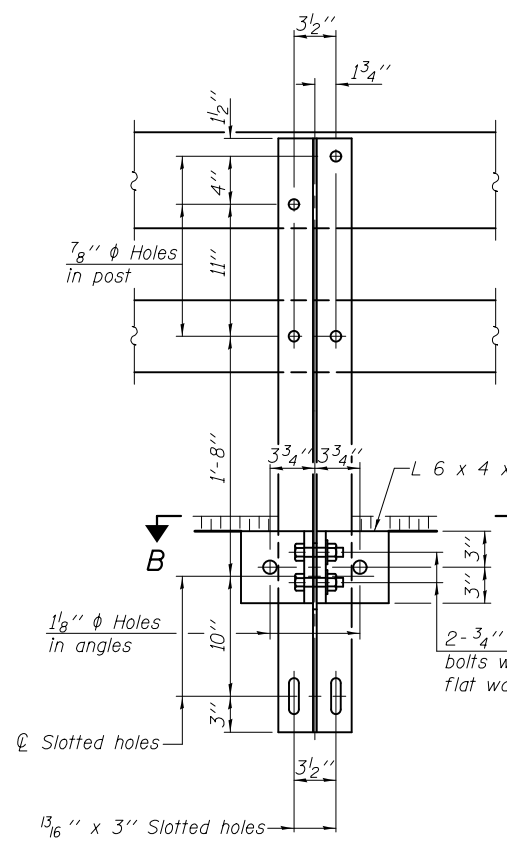
DESIGNED - Josue Ortiz-Varela	EXAMINED - <i>Joanne F. [Signature]</i>	DATE - MARCH 24, 2014
CHECKED - Meseret Sila	PASSED - <i>Carl [Signature]</i>	REVISED -
DRAWN - h.t. duong	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
CHECKED - JQV/MS/GRA		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 020-0046**

SHEET NO. 5 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	49
CONTRACT NO. 70606			ILLINOIS FED. AID PROJECT	



Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
 All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.
 For rail post spacing, see sheet 4 of 10.

** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".
 *** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	126

(6'-3" Maximum Post Spacing) (1/4" minimum to 3/8" maximum HMA thickness)

*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

DESIGNED - Josue Ortiz-Varela
 CHECKED - Maseret Sima
 DRAWN - h.t. duong
 CHECKED - JQV/MS/GRA

EXAMINED - *Jayne F. [Signature]*
 PASSED - *Carl [Signature]*
 ACTING ENGINEER OF BRIDGE DESIGN
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

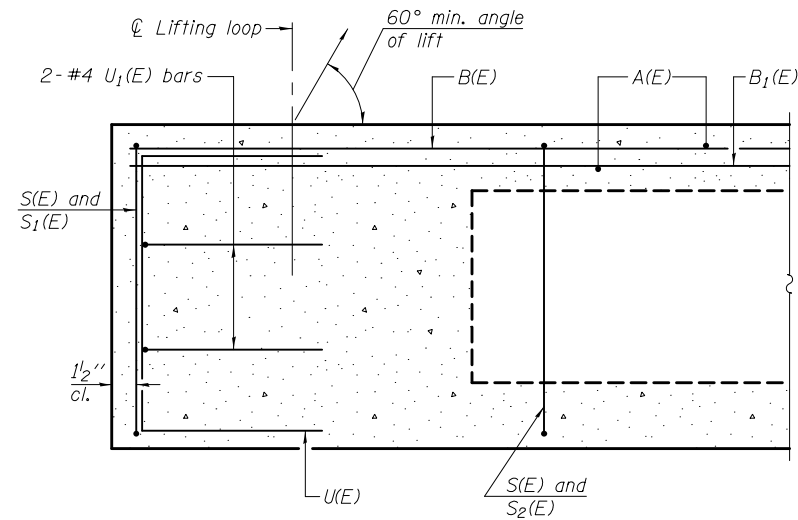
DATE - MARCH 24, 2014
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

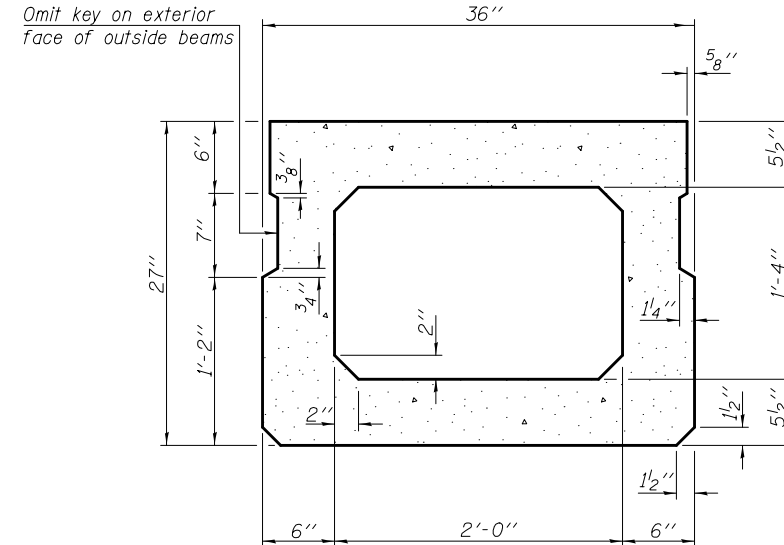
STEEL RAILING, TYPE SM WITH HOT-MIX ASPHALT WEARING SURFACE
 STRUCTURE NO. 020-0046

SHEET NO. 6 OF 10 SHEETS

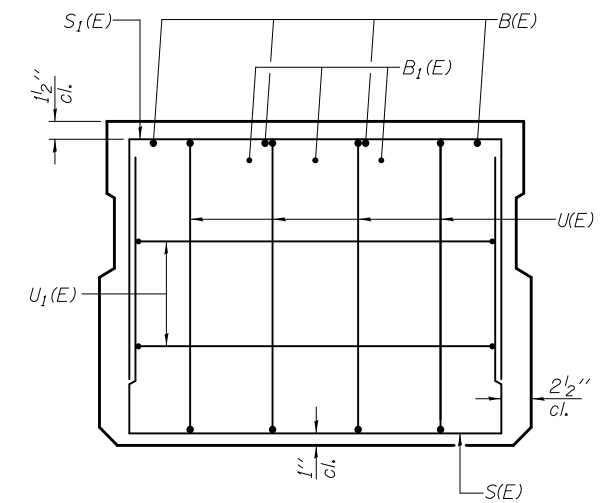
F.A.P. R.T.E. SECTION COUNTY TOTAL SHEETS SHEET NO.
 322 54B-3, 54B-2 DEWITT 89 50
 CONTRACT NO. 70606
 ILLINOIS FED. AID PROJECT



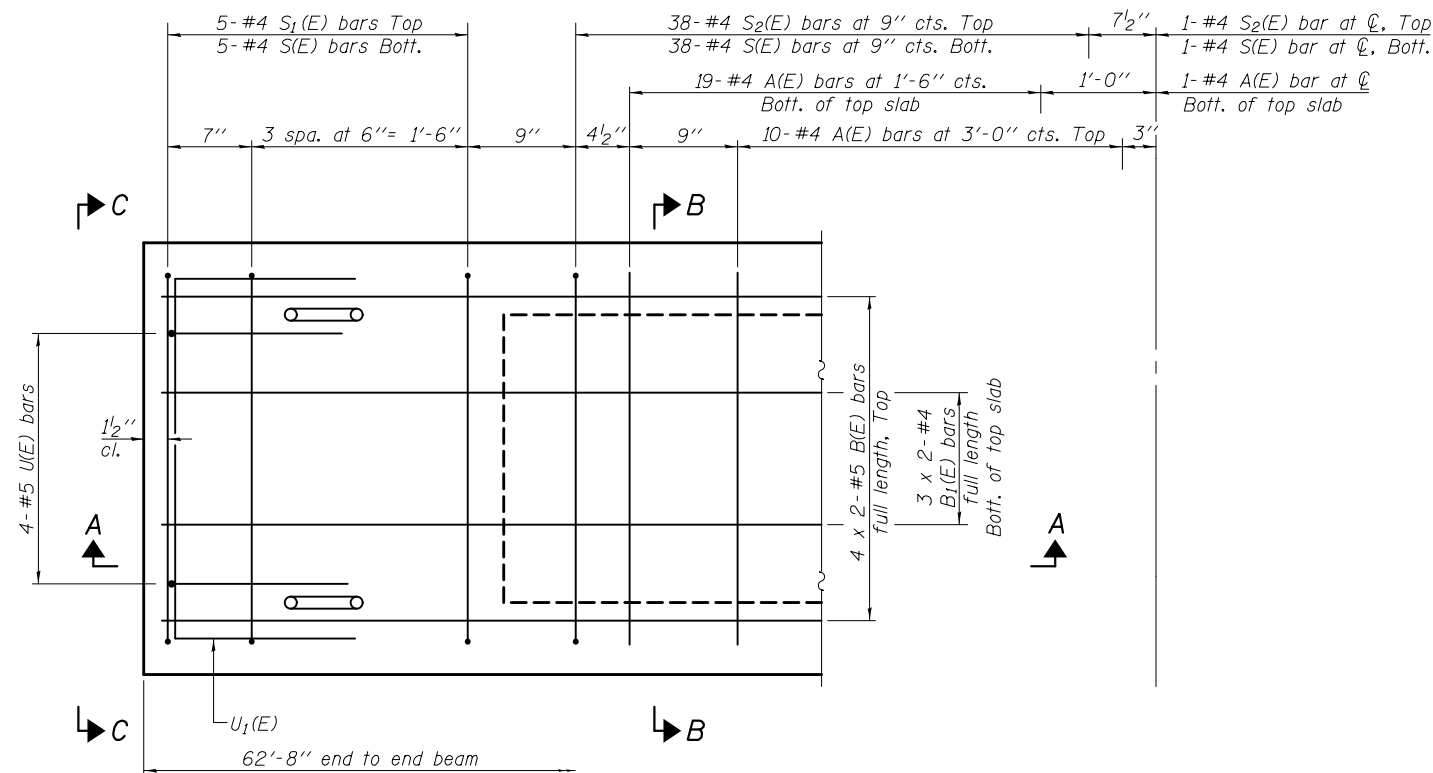
SECTION A-A



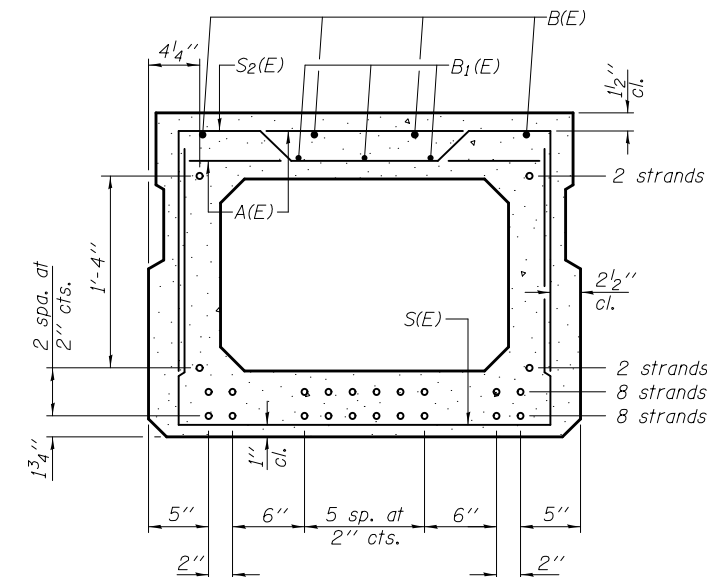
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)	59	#4	2'-7"	—
B(E)	8	#5	32'-6"	—
B1(E)	6	#4	32'-3"	—
S(E)	87	#4	6'-5"	U
S1(E)	10	#4	5'-11"	U
S2(E)	77	#4	6'-2"	U
U(E)	8	#5	4'-6"	C
U1(E)	4	#4	5'-0"	U

Note: See sheet 8 of 10 for additional details and Bill of Material.

MINIMUM BAR LAP

#4 bar = 2'-0"
#5 bar = 2'-6"

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

PD-2736-0 7-1-10

DESIGNED - Josue Ortiz-Varela
CHECKED - Maseret Sima
DRAWN - h.t. duong
CHECKED - JQV/MS/GRA

EXAMINED - *Jayne F. [Signature]*
PASSED - *Carl [Signature]*
ACTING ENGINEER OF BRIDGE DESIGN
ACTING ENGINEER OF BRIDGES AND STRUCTURES

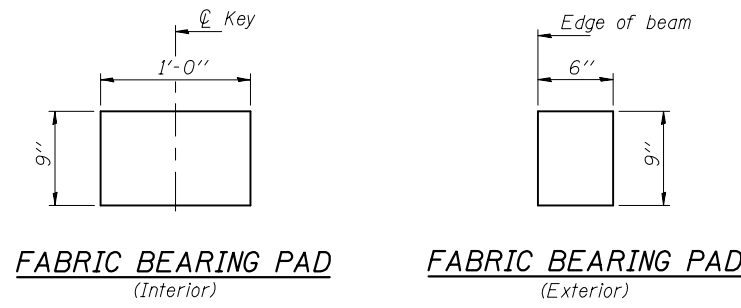
DATE - MARCH 24, 2014
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27" x 36" PPC DECK BEAM
STRUCTURE NO. 020-0046

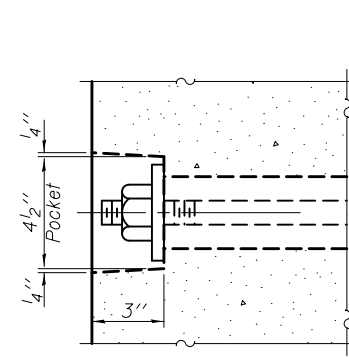
SHEET NO. 7 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	51
CONTRACT NO. 70606			ILLINOIS FED. AID PROJECT	

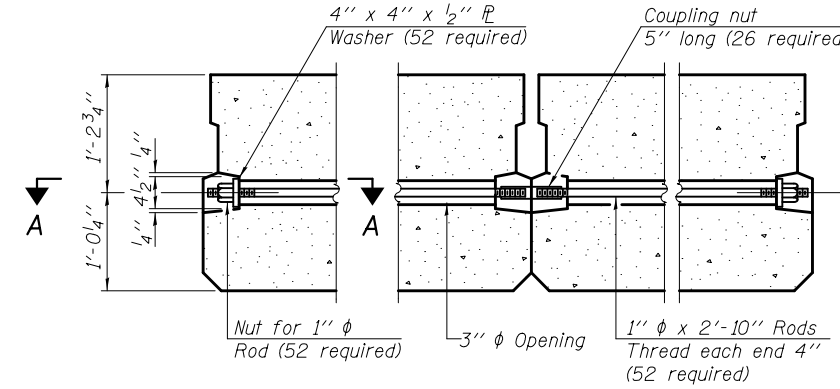


FIXED

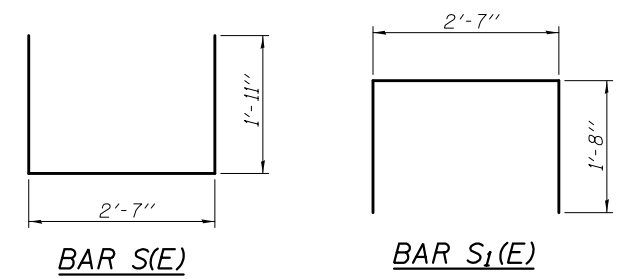
Note: All bearing pads shall be 1" thick.



SECTION A-A

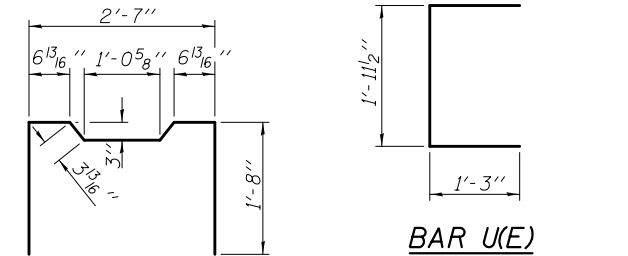


TYPICAL TRANSVERSE TIE ASSEMBLY



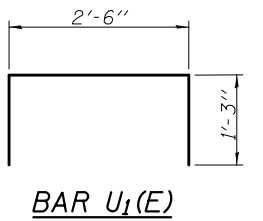
BAR S(E)

BAR S1(E)

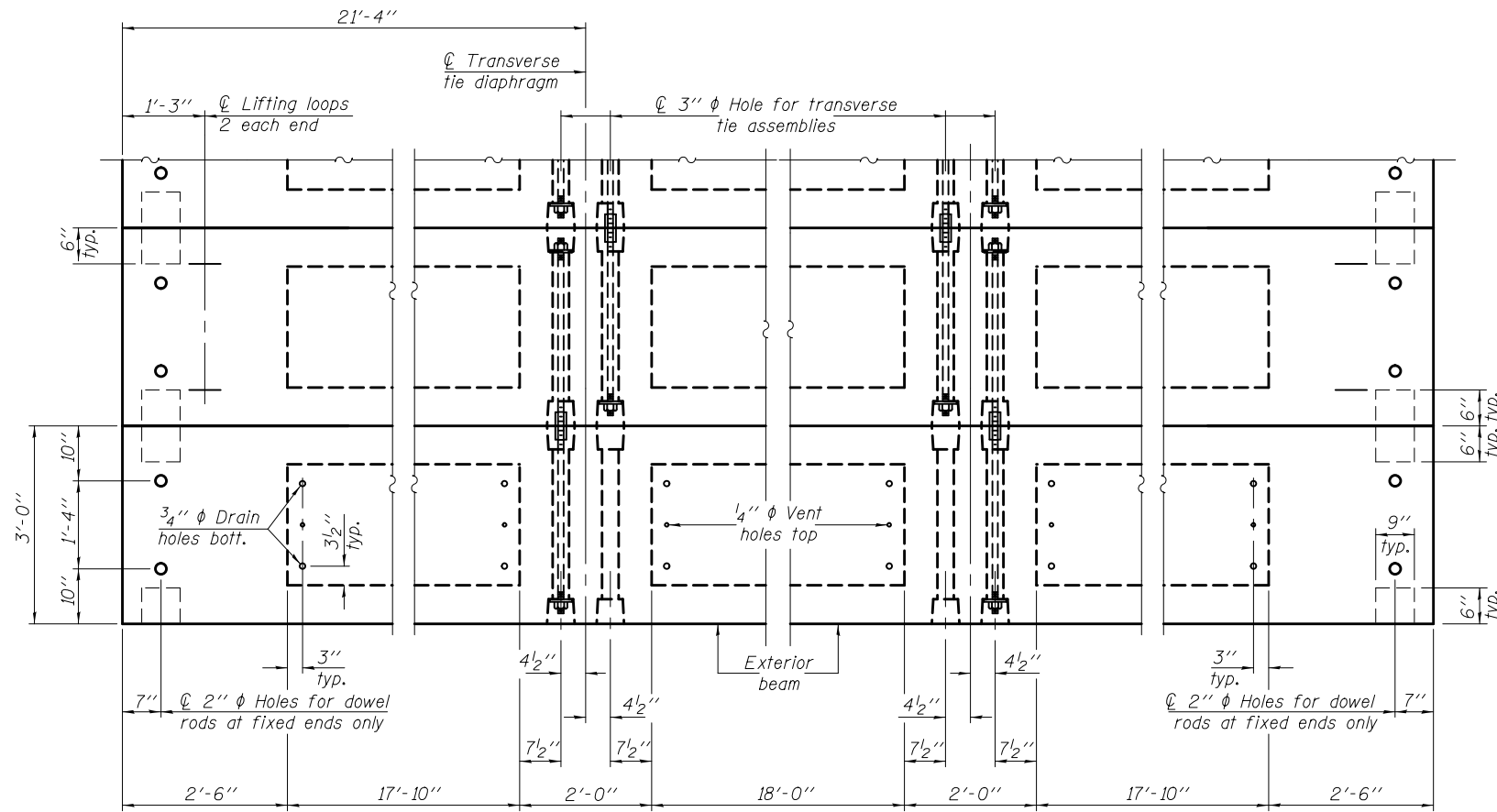


BAR S2(E)

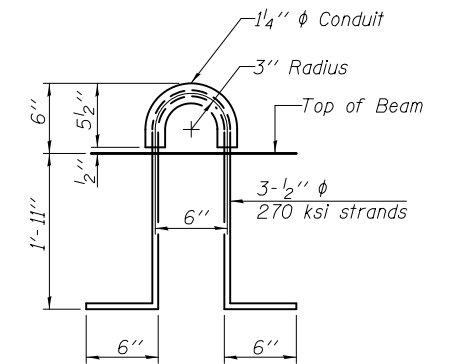
BAR U(E)



BAR U1(E)



PLAN VIEW



LIFTING LOOP DETAIL

NOTES

Note: Connect beams in pairs with the transverse tie configuration shown.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" diameter rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place. Reinforcement bars shall conform to ASTM A 706, Grade 60. Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Concrete Deck Beams (27" depth)	Sq. Ft.	2632
-----------------------------------------------------	---------	------

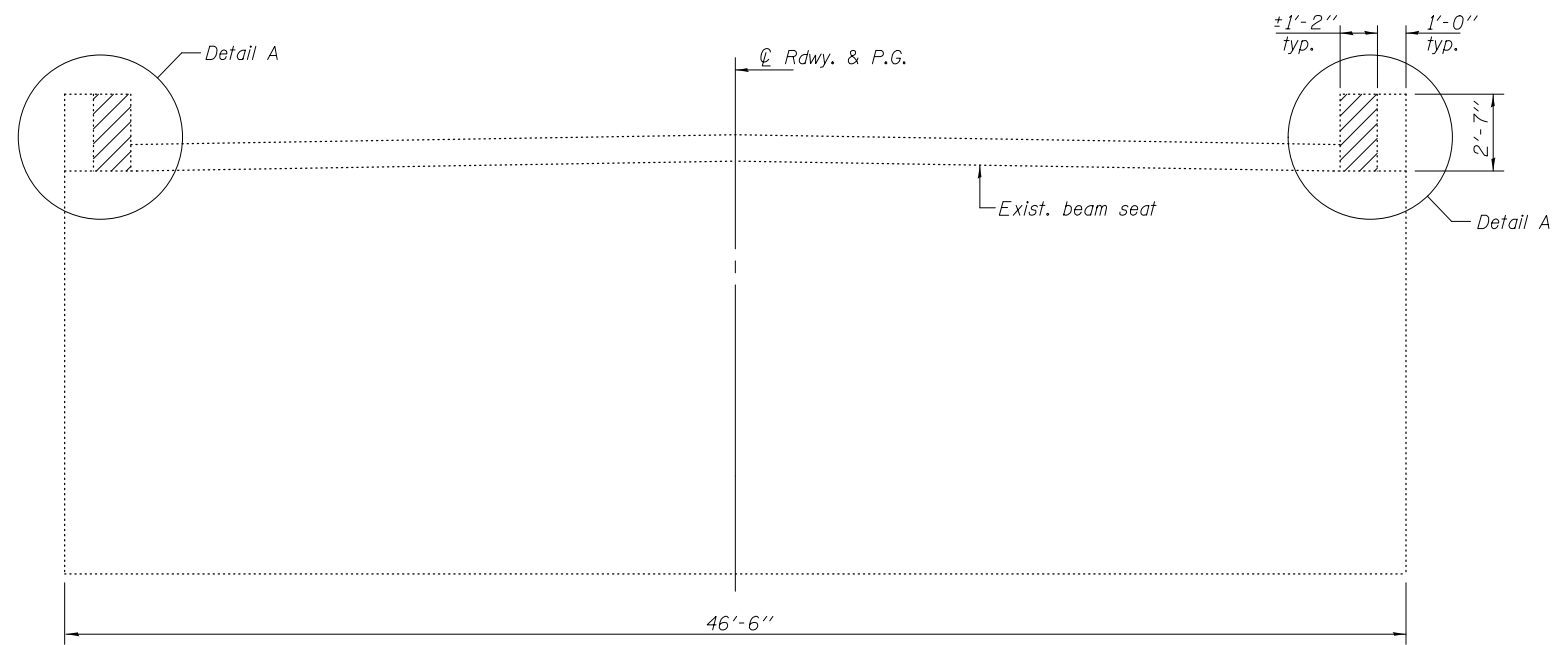
DESIGNED - Josue Ortiz-Varela	EXAMINED - <i>Joey F. [Signature]</i>	DATE - MARCH 24, 2014
CHECKED - Meseret Sima	PASSED - <i>Carl [Signature]</i>	REVISED -
DRAWN - h.t. duong	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
CHECKED - JQV/MS/GRA		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

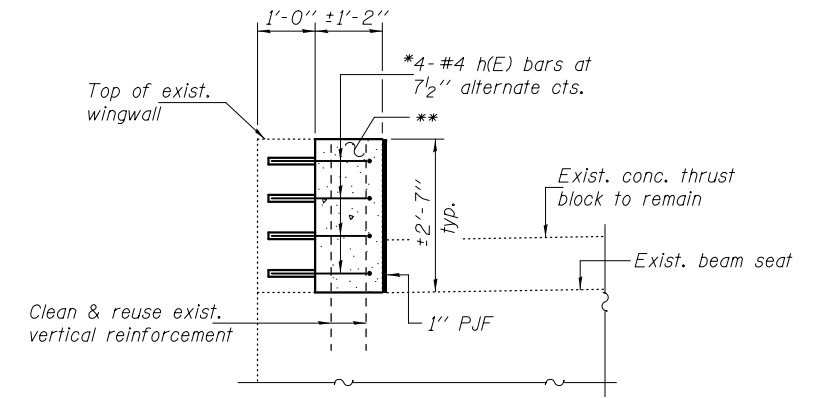
**27" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 020-0046**

SHEET NO. 8 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	52
CONTRACT NO. 70606				
ILLINOIS FED. AID PROJECT				

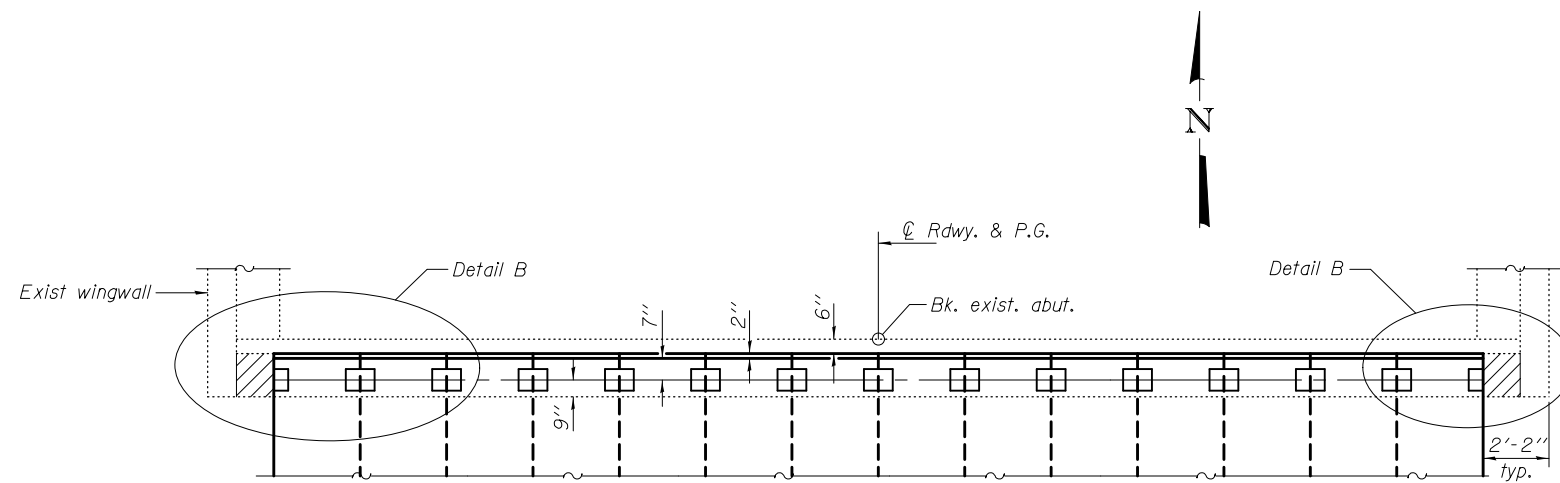


ELEVATION
 (Showing concrete removal)
 (North Abut. - Looking North; South Abut. similar)

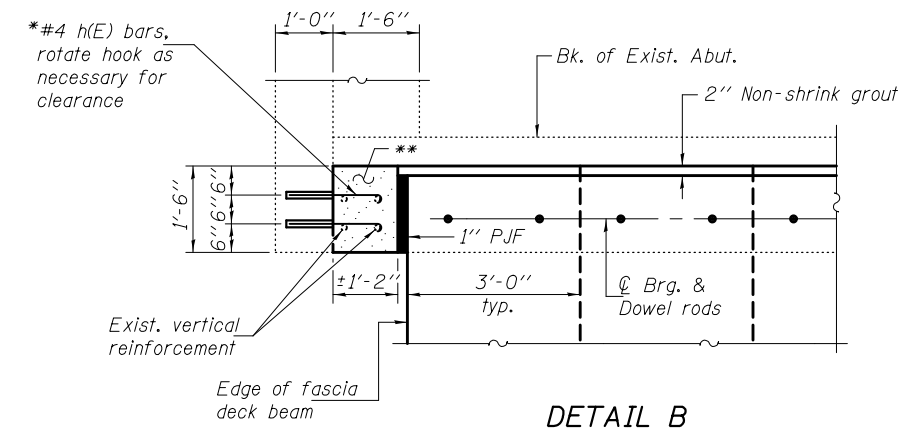


DETAIL A

*Epoxy grout h(E) bars in 9" min. drilled holes according to Section 584 of the Standard Specifications.
 **Concrete to be placed after PPC deck beams have been erected and doweled into place.

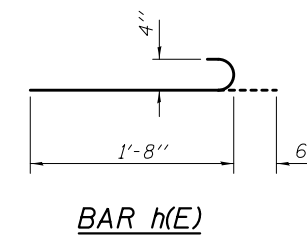


PLAN
 (Showing concrete removal & new beam placement)



DETAIL B

Notes: Existing vertical reinforcement bars extending into the new construction shall be cleaned, straightened and incorporated into the new construction. Cost included with Removal of Existing Superstructures.
 Hatched area indicates concrete removal.



BAR h(E)

**TWO ABUTMENTS
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	16	#4	2'-2"	
Reinforcement Bars, Epoxy Coated			Pound	20
Concrete Removal			Cu. Yd.	0.7
Concrete Structures			Cu. Yd.	0.7

DESIGNED - Josue Ortiz-Varela
 CHECKED - Meseret Sima
 DRAWN - h.t. duong
 CHECKED - JQV/MS/GRA

EXAMINED - *Joanne F. [Signature]*
 ACTING ENGINEER OF BRIDGE DESIGN
 PASSED - *Carl [Signature]*
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

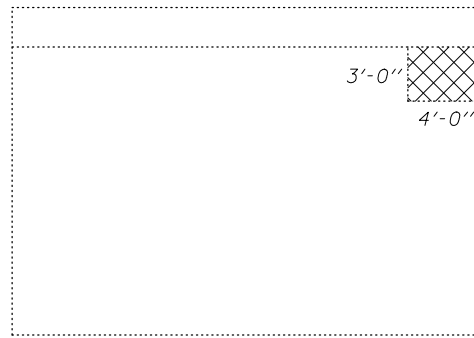
DATE - MARCH 24, 2014
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CONCRETE REMOVAL
 STRUCTURE NO. 020-0046**

SHEET NO. 9 OF 10 SHEETS

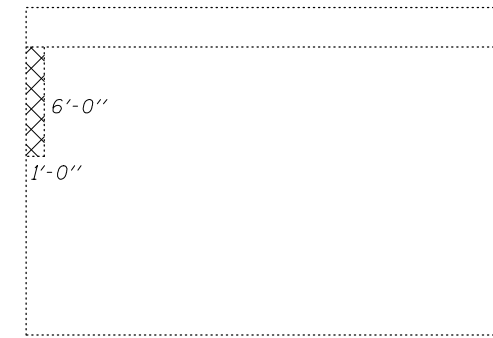
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	53
			CONTRACT NO. 70606	
ILLINOIS FED. AID PROJECT				



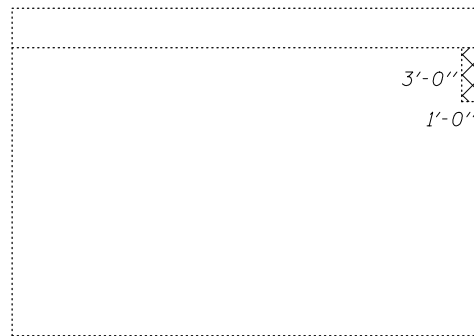
ELEVATION - N.W. WINGWALL



ELEVATION - NORTH ABUTMENT
(North Abut. - Looking North)



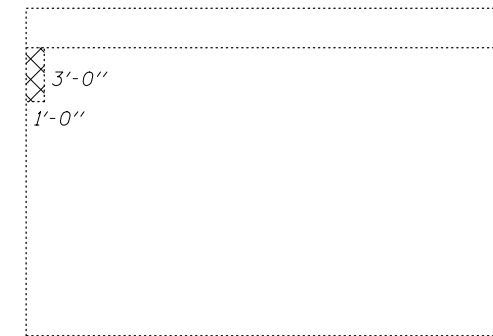
ELEVATION - N.E. WINGWALL



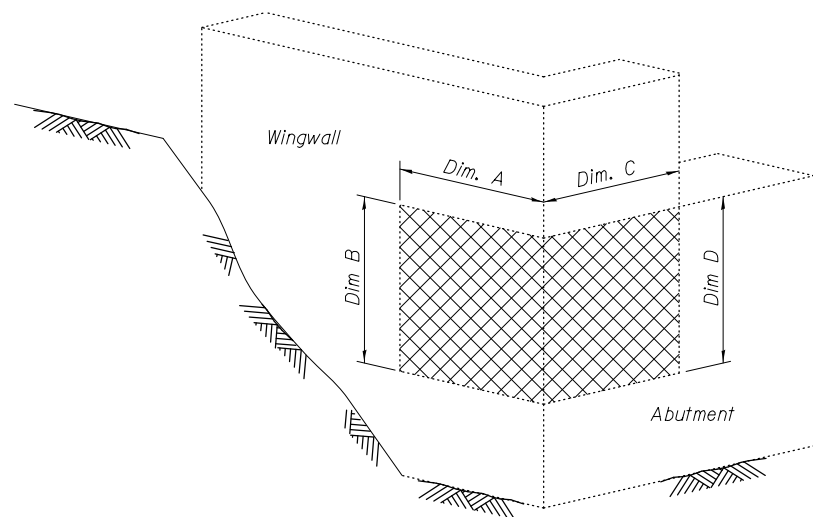
ELEVATION - S.E. WINGWALL



ELEVATION - SOUTH ABUTMENT
(South Abut. - Looking South)



ELEVATION - S.W. WINGWALL



ISOMETRIC VIEW AT ABUTMENT CORNER

STRUCTURAL REPAIR OF CONCRETE
TABLE

Abutment Corner	Repair Area Dimensions				Repair Area Sq. Ft.
	Wingwall		Abutment		
	A	B	C	D	
Northeast	1'-0"	6'-0"	2'-6"	4'-0"	16.0
Northwest	4'-0"	3'-0"	2'-6"	6'-0"	27.0
Southeast	1'-0"	3'-0"	2'-6"	4'-0"	13.0
Southwest	1'-0"	3'-0"	2'-6"	5'-0"	15.5

LEGEND

Structural Repair of Concrete (Depth ≤ 5")

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	72

DESIGNED - Josue Ortiz-Varela
CHECKED - Meseret Sima
DRAWN - h.t. duong
CHECKED - JQV/MS/GRA

EXAMINED -
ACTING ENGINEER OF BRIDGE DESIGN
PASSED -
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - MARCH 24, 2014
REVISED - _____
REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL REPAIR OF CONCRETE
STRUCTURE NO. 020-0046

SHEET NO. 10 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	54
CONTRACT NO. 70606				
ILLINOIS FED. AID PROJECT				

Benchmark: Chiseled square located on the top of the SE wingwall of southbound bridge S.N. 020-0047, Sta. 1437+21.63, 14.79' Lt., Elev. 718.78.

Existing Structure: S.N. 020-0047 built as F.A. Rte. 412 - Sec. 54B-2 in 1986, is a single span P.P.C. deck beam bridge with bituminous wearing surface and waterproofing membrane system. The structure is 64'-5" back to back of closed abutments, and 42'-0" out to out of deck. The railing is Type T-1 steel railing and the skew is 6° 30' Lt. Fwd to F.A.P. 322. In 2011, 4 keyways were repaired under contract Number 70895 due to independent beam movement. In 2012 several loose plates between beams 3 & 4 were retightened and potholes above them filled with hot mix asphalt.

Deck beams to be replaced with PPC Deck Beams.

Traffic to be maintained utilizing Stage Construction.

No Salvage.

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Stage Construction Details
- 3 Temporary Concrete Barrier For Stage Construction
- 4 Superstructure
- 5 27"x36" PPC Deck Beam
- 6 27"x36" PPC Deck Beam Details
- 7 27"x48" PPC Deck Beam
- 8 27"x48" PPC Deck Beam Details
- 9 Steel Railing, Type SM with Hot-Mix Asphalt Wearing Surface
- 10 Abutment & Miscellaneous Details
- 11-17 Existing Bridge Plans

WATERWAY INFORMATION

Drainage Area = 8.3 Sq. Mi. Low Grade Elev. 717.26 @ Sta. 1435+57									
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	1680	425	425	711.7	0.66	0.66	712.33	712.33
Base	100	1930	456	456	712.1	0.78	0.78	712.85	712.85
Overfapping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	2504	534	534	713.1	0.96	0.96	714.03	714.03

Note: Information per 1985 as-built construction plans. Elevations adjusted from NGVD29 (assumed) to NAVD88.

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	N. Abut.	S. Abut.
	702.77	702.77

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition
1995 Seismic Retrofitting Manual for Highway Bridges FHWA-RD-94/052

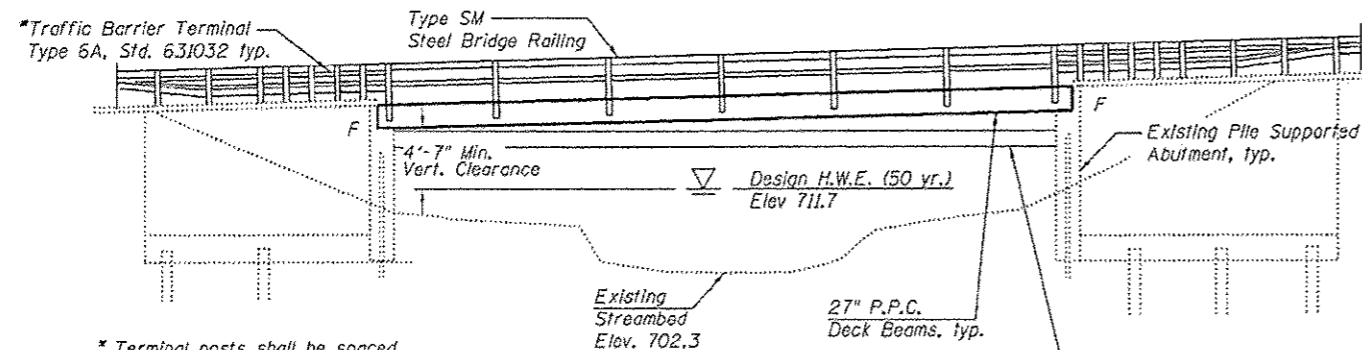
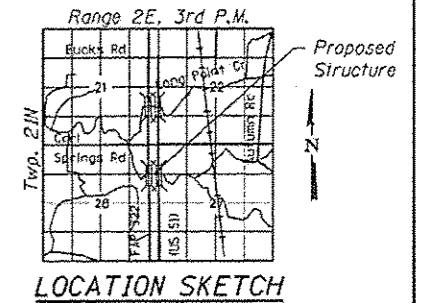
DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f'_ci = 5,000$ psi
 $f_{pu} = 270,000$ psi ($\frac{1}{2}$ " ϕ low lax strands)
 $f_{pb} = 201,960$ psi ($\frac{1}{2}$ " ϕ low lax strands)



* Terminal posts shall be spaced to miss the existing curtain wall tie rods, and shall be verified by the Contractor, and as directed by the Engineer.

ELEVATION

** Elevation based on theoretical Profile Grade. See sheet 4 of 17.

Temporary Wall Bracing System (to be designed by Contractor) Existing abutments shall be braced against horizontal movement prior to removal of existing deck beams.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Hot-Mix Asphalt Surface Course, Mix "D", W90	Ton	40.5	--	40.5
Removal of Existing Superstructures	Each	1	--	1
Concrete Removal	Cu Yd	--	0.4	0.4
Concrete Structures	Cu Yd	--	0.5	0.5
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq Ft	2650	--	2650
Reinforcement Brgs. Epoxy Coated	Pound	--	60	60
Steel Railing, Type SM	Foot	126	--	126
Name Plates	Each	1	--	1
Waterproofing Membrane System	Sq Yd	296	--	296
Portland Cement Mortar Fairing Course	Foot	631	--	631
Temporary Wall Bracing System	L Sum	--	0.5	0.5

SEISMIC DATA

(500 Year return per AASHTO Standard Specifications)
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.046g
Site Coefficient (S) = 1.5

APPROVED

For Structural Adequacy Only

[Signature]
Engineer of Bridges & Structures

GENERAL PLAN AND ELEVATION

F.A.P. 322 (S.B. US 51)

OVER TRIBUTARY OF

LONG POINT CREEK

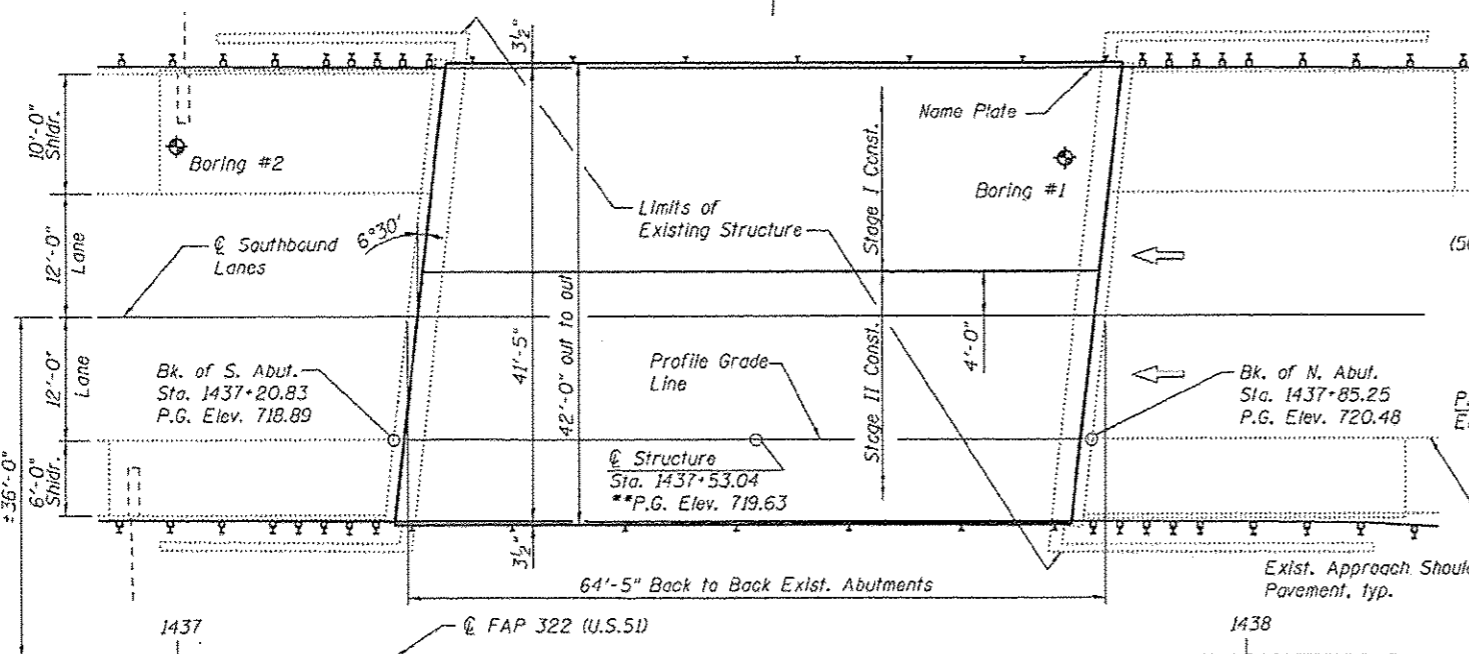
SECTION 54B-3, 54B-2

DEWITT COUNTY

STA. 1437+53.04

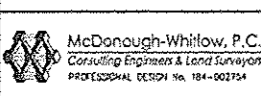
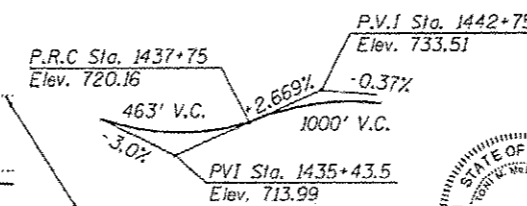
S.N. 020-0047

[Signature] Date 3-19-2014
Toni M. McDonough
Illinois Structural Engineer
No. 81-5025
Exp. Date 11/30/14



PLAN

PROFILE GRADE

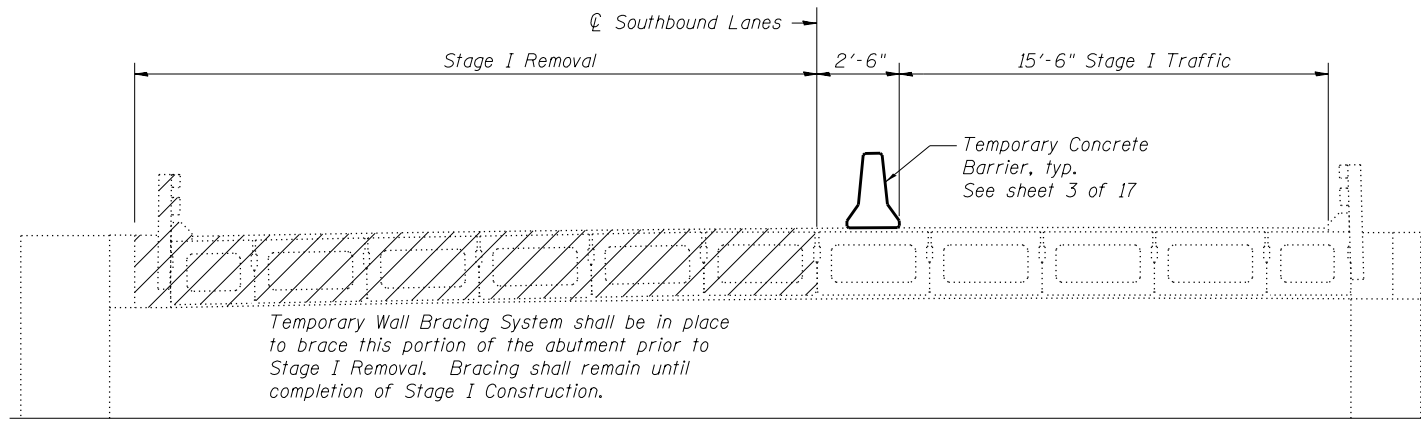


USER NAME = User-1	DESIGNED - CMF	REVISOR
PLCT SCALE = 1/2" = 1' / 32"	CHECKED - TNM	REVISIONS
PLCT DATE = 3/19/2014	DRAWN - JLM	REVISIONS
	CHECKED - TNM	REVISIONS

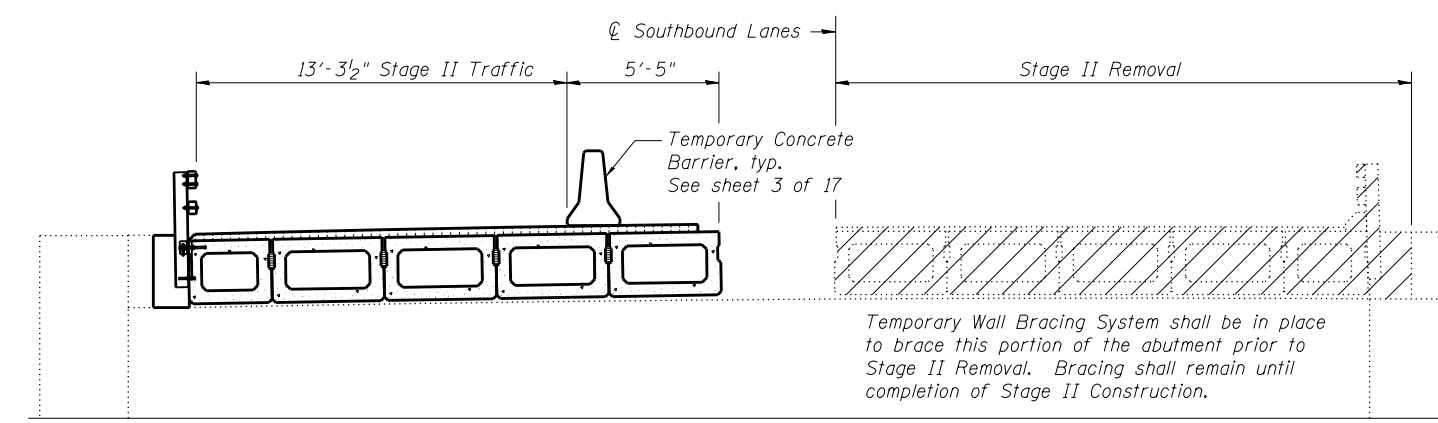
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 020-0047
SHEET NO. 1 OF 17 SHEETS

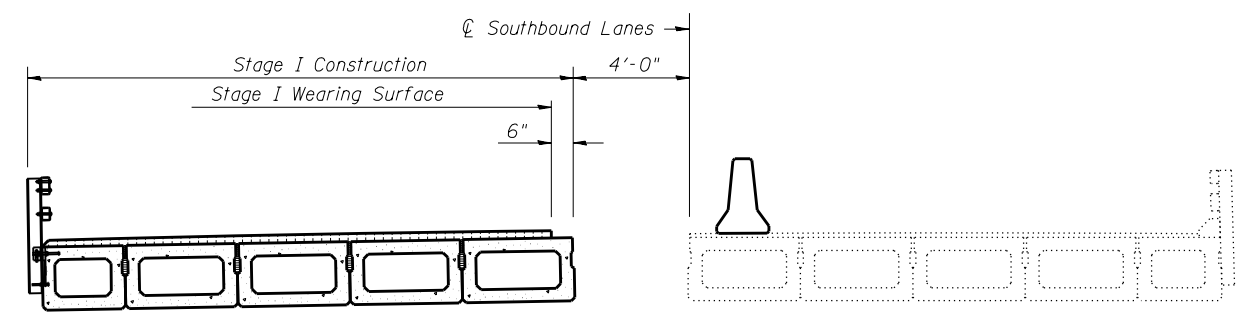
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	55
			CONTRACT NO. 70606	
ILLINOIS FED. AID PROJECT				



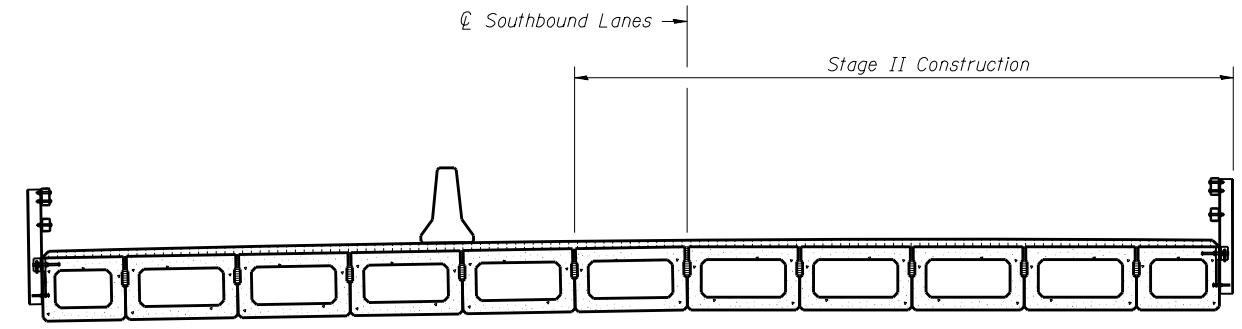
STAGE I REMOVAL



STAGE II REMOVAL

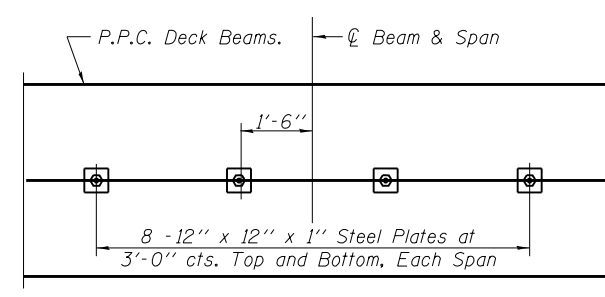


STAGE I CONSTRUCTION

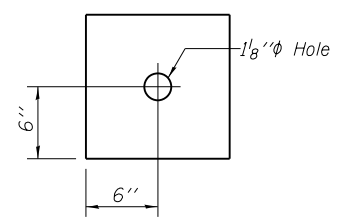


STAGE II CONSTRUCTION

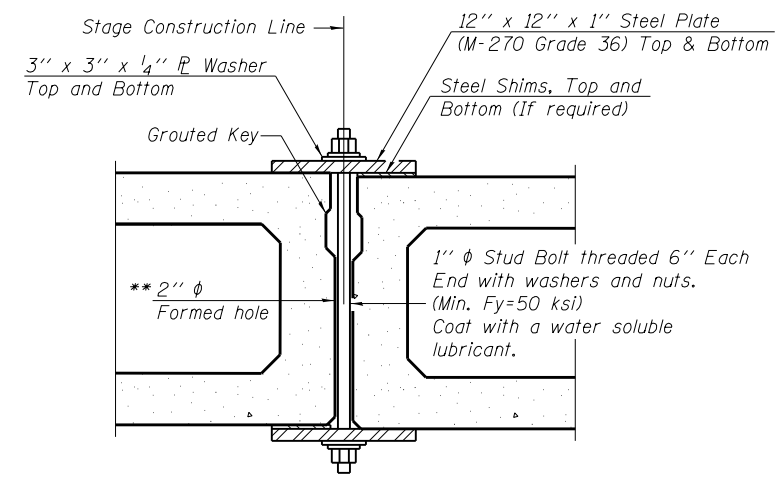
Notes: All staging cross sections are looking North.
 For quantity of Temporary Concrete Barrier, see roadway plans.
 For details of Temporary Concrete Barrier, see sheet 3 of 17.
 Hatched area indicates removal.
 Wearing surface removal included in the cost of Removal of Existing Superstructures.



PLAN



CLAMPING PLATE



SECTION

** Cast semicircular recesses in the sides of each beam adjacent to the stage construction line. These recesses should align to form a hole at the appropriate locations for the clamping device bolts.

SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

Cost included with Precast Prestressed Concrete Deck Beams.
 See Stage Construction Details for traffic lanes.

F:\Projects\10-006-4 DRAWINGS\CADD SHEETS\0220047-70606-002-StageConst\Det.dgn



USER NAME = User1	DESIGNED - CMF	REVISED -
	CHECKED - TMM	REVISED -
PLOT SCALE = @2.0000 '1" / in.	DRAWN - JLM	REVISED -
PLOT DATE = 3/19/2014	CHECKED - TMM	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

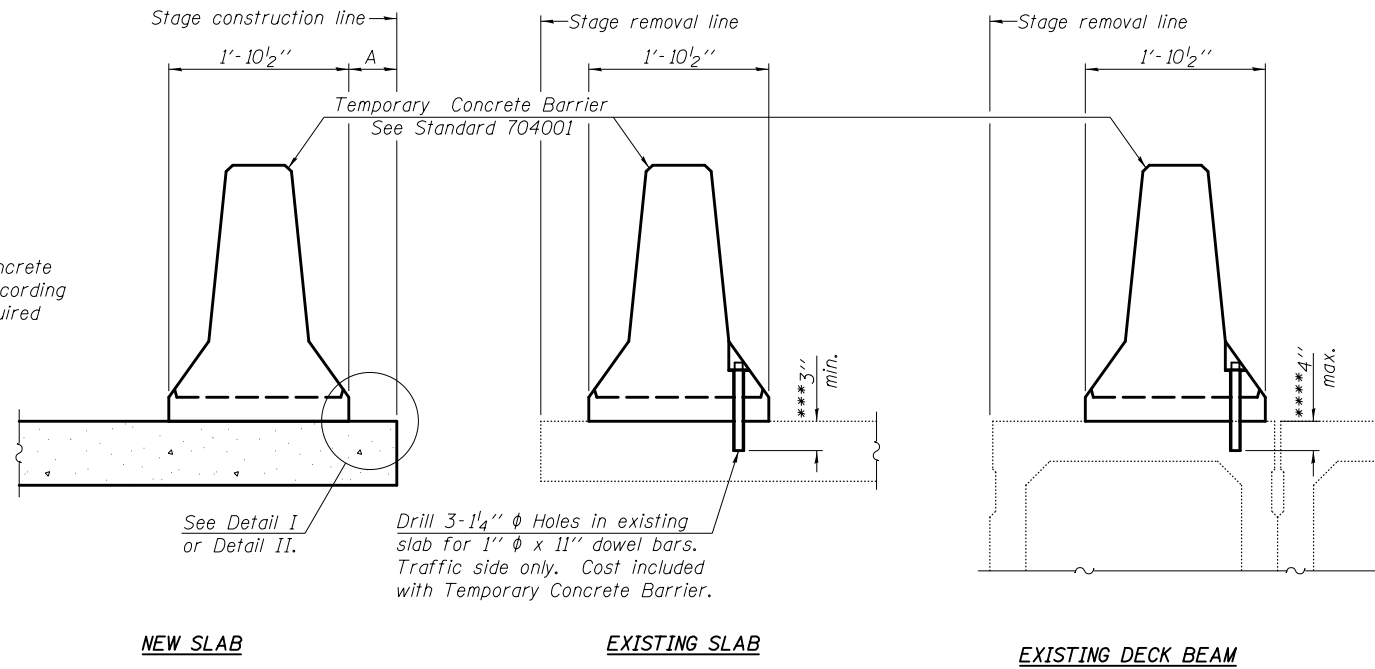
**STAGE CONSTRUCTION DETAILS
 STRUCTURE NO. 020-0047**

SHEET NO. 2 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	56
CONTRACT NO. 70606				

ILLINOIS FED. AID PROJECT

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

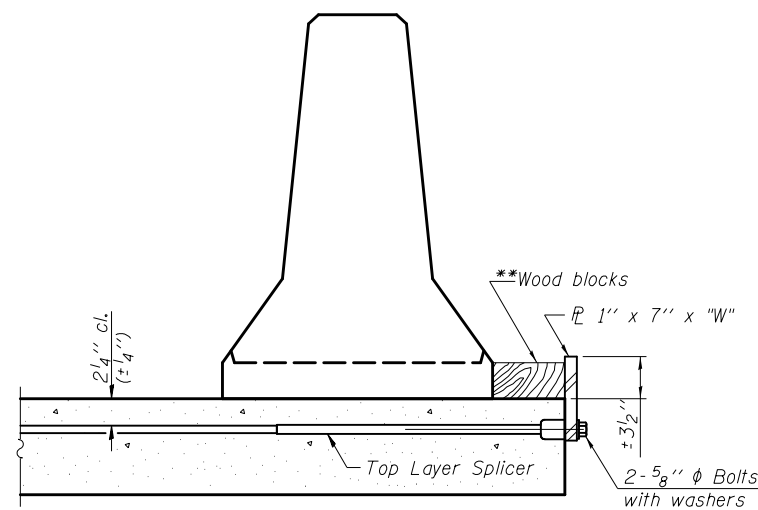
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel PL to the concrete slab or concrete wearing surface with 2-5/8" φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate C of each barrier panel.

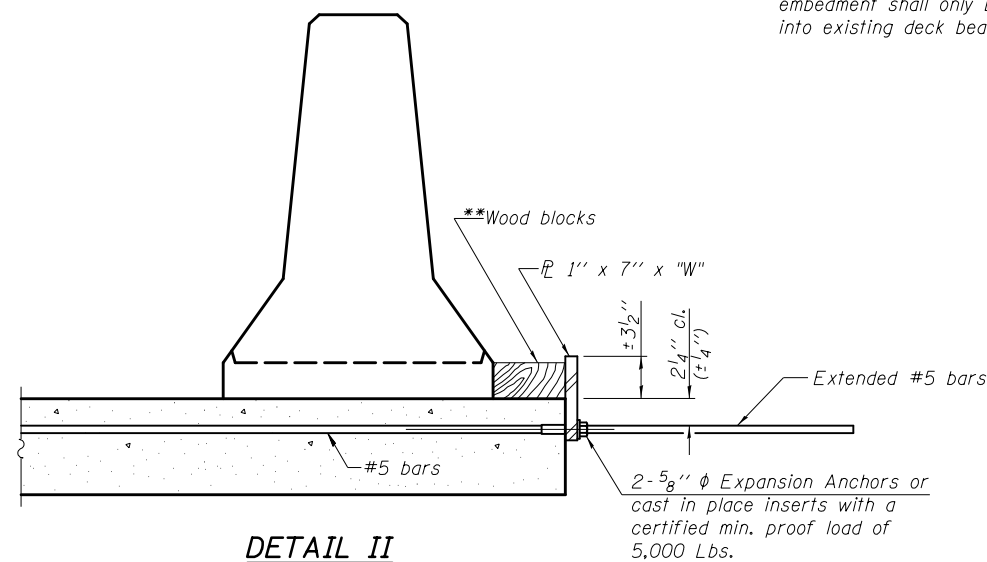
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

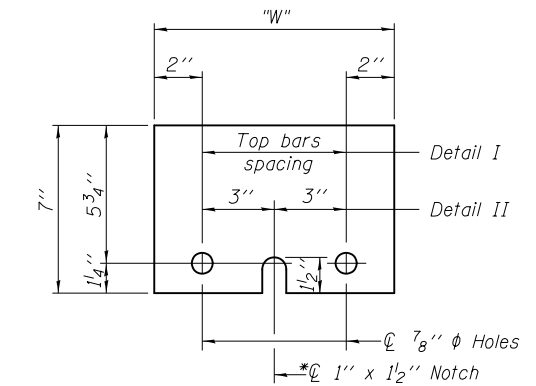
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1" x 7" x "W"

* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

c:\pwwork\jmedf\jmedf.dwg 02/29/13 02:00:47-79686-003-TempConcreteBarrier.dgn

R-27

7-1-10



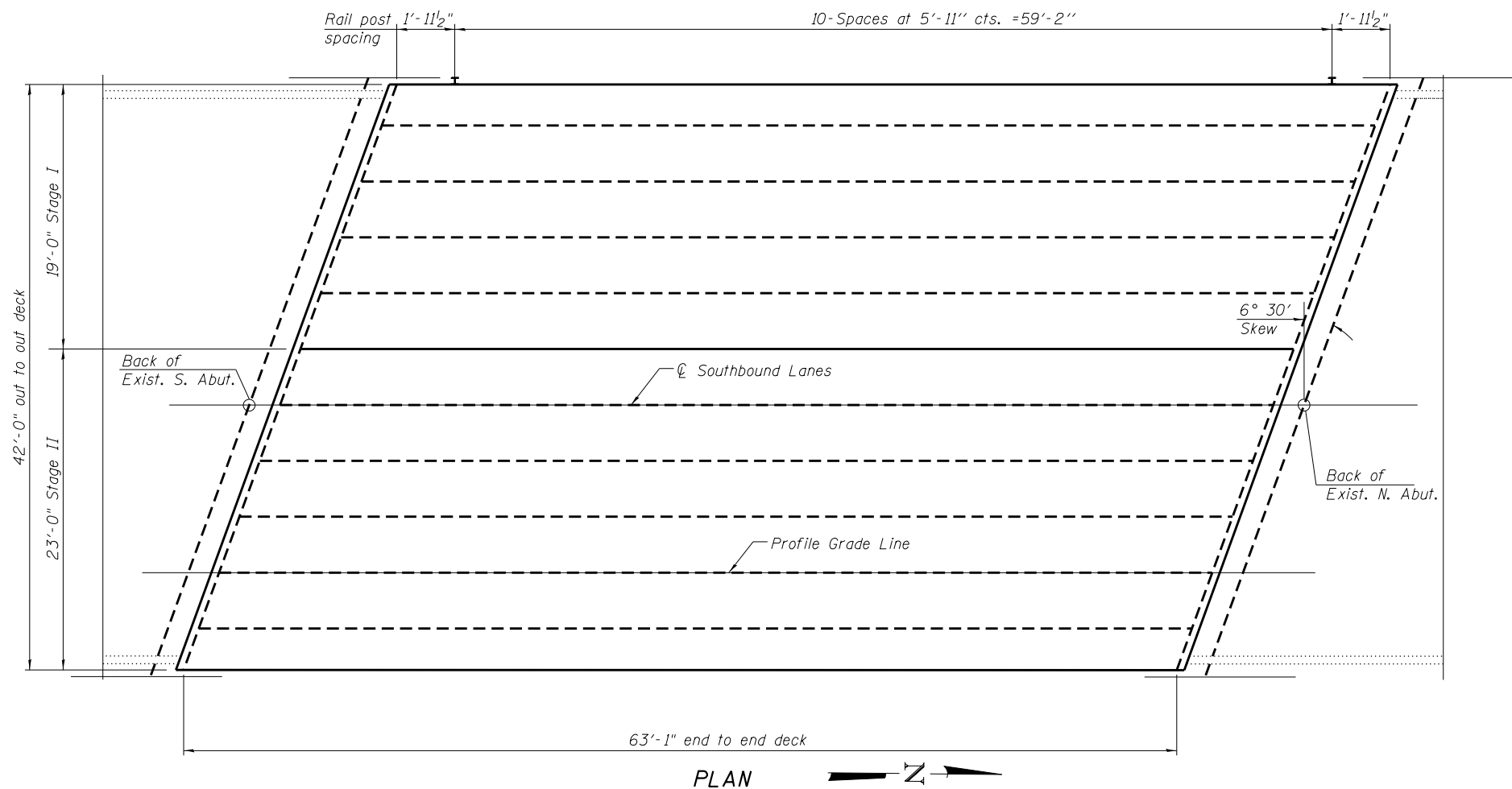
USER NAME = jaymedf	DESIGNED - CMF	REVISED -
PLOT SCALE = 0:2.0000 "1" = 1"	CHECKED - TMM	REVISED -
PLOT DATE = 1/31/2014	DRAWN - JLM	REVISED -
	CHECKED - TMM	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

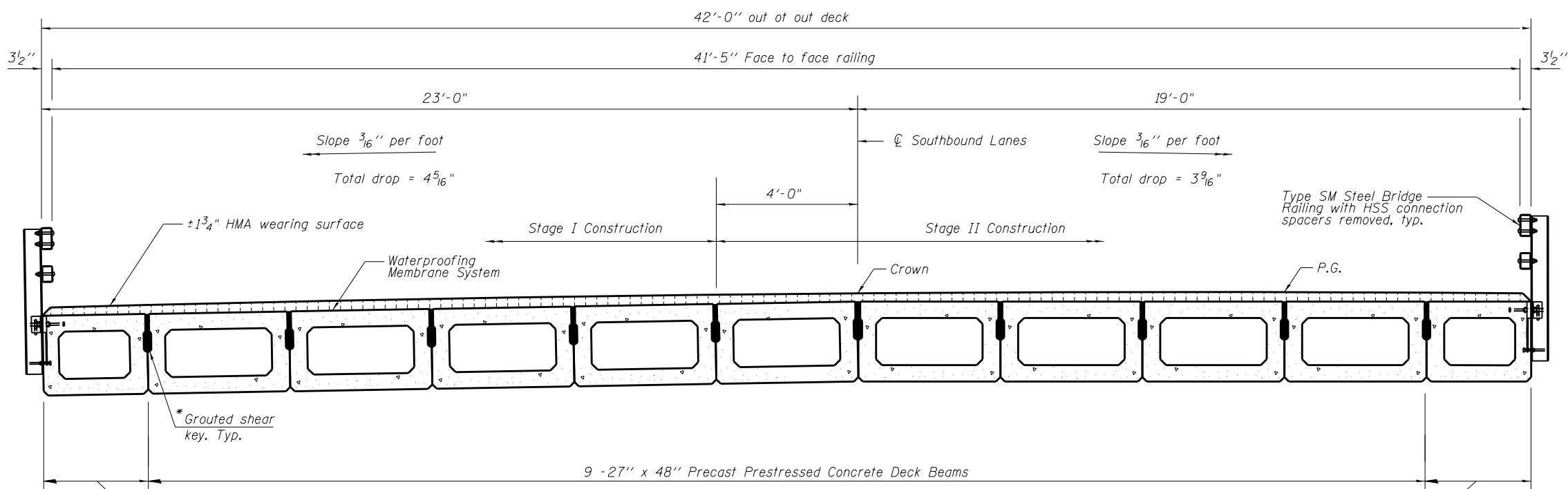
**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 020-0047**

SHEET NO. 3 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	57
CONTRACT NO. 70606			ILLINOIS FED. AID PROJECT	



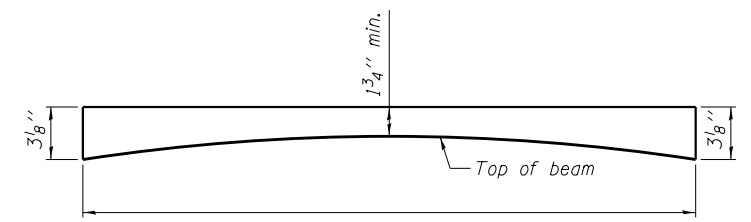
PLAN



CROSS SECTION
(Looking North)

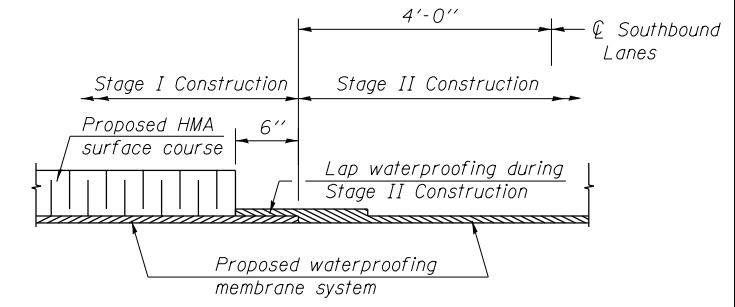
* Longitudinal keyways shall be filled with non-shrink grout.

Notes:
See sheets 6 & 8 of 17 for Deck Beam Details and Bill of Material.
See sheet 10 of 17 for Section Thru Existing Abutment.



ANTICIPATED HMA WEARING SURFACE PROFILE
(For information only)

See sheet 1 of 17 for Profile Grade.
Adjustment of the profile may be necessary to maintain the minimum 1 3/4" surface thickness. If necessary, transition back to Profile Grade over entire length of beam. Notify Engineer if adjustment greater than 1/2" is required.



WATERPROOFING TREATMENT AT STAGE CONSTRUCTION
(Looking North)

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Hot-Mix Asphalt Surface Course, Mix "D", N90	Tons	40.5
Waterproofing Membrane System	Sq. Yd.	296

F:\Projects\10-006-4 DRAWINGS\CADD SHEETS\02200047-70606-004-Super.dgn



USER NAME = User1	DESIGNED - CMF	REVISED -
PLOT SCALE = 0:2.0000 '1" / 1"	CHECKED - TMM	REVISED -
PLOT DATE = 3/19/2014	DRAWN - JLM	REVISED -
	CHECKED - TMM	REVISED -

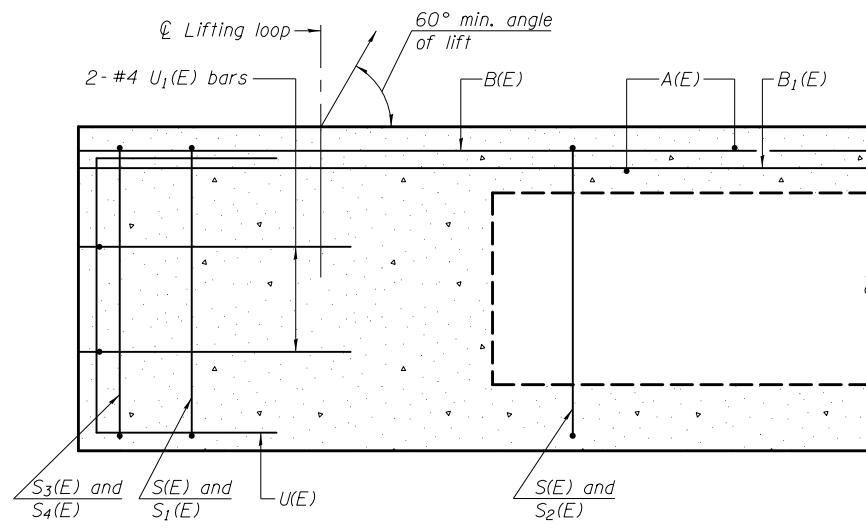
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 020-0047

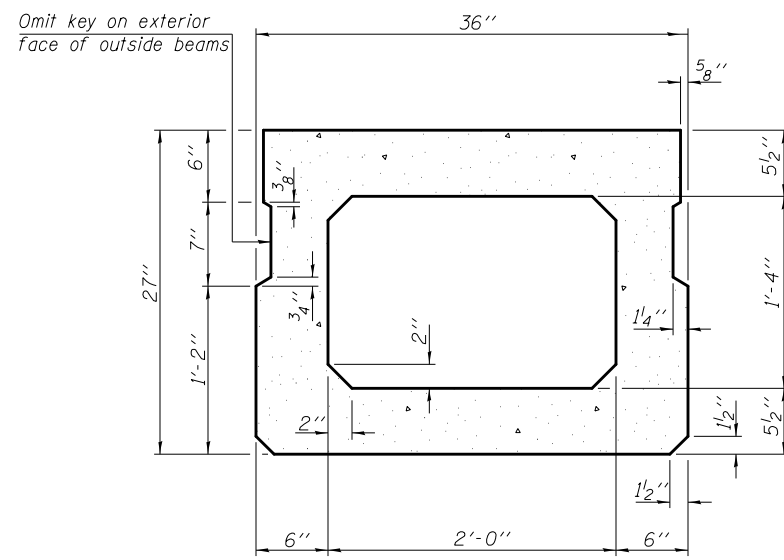
SHEET NO. 4 OF 17 SHEETS

F.A.P. RTE. 322	SECTION 54B-3, 54B-2	COUNTY DEWITT	TOTAL SHEETS 89	SHEET NO. 58
CONTRACT NO. 70606				

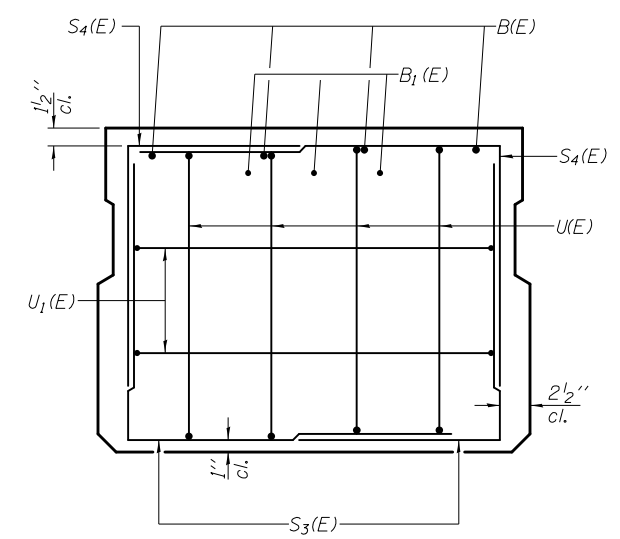
ILLINOIS FED. AID PROJECT



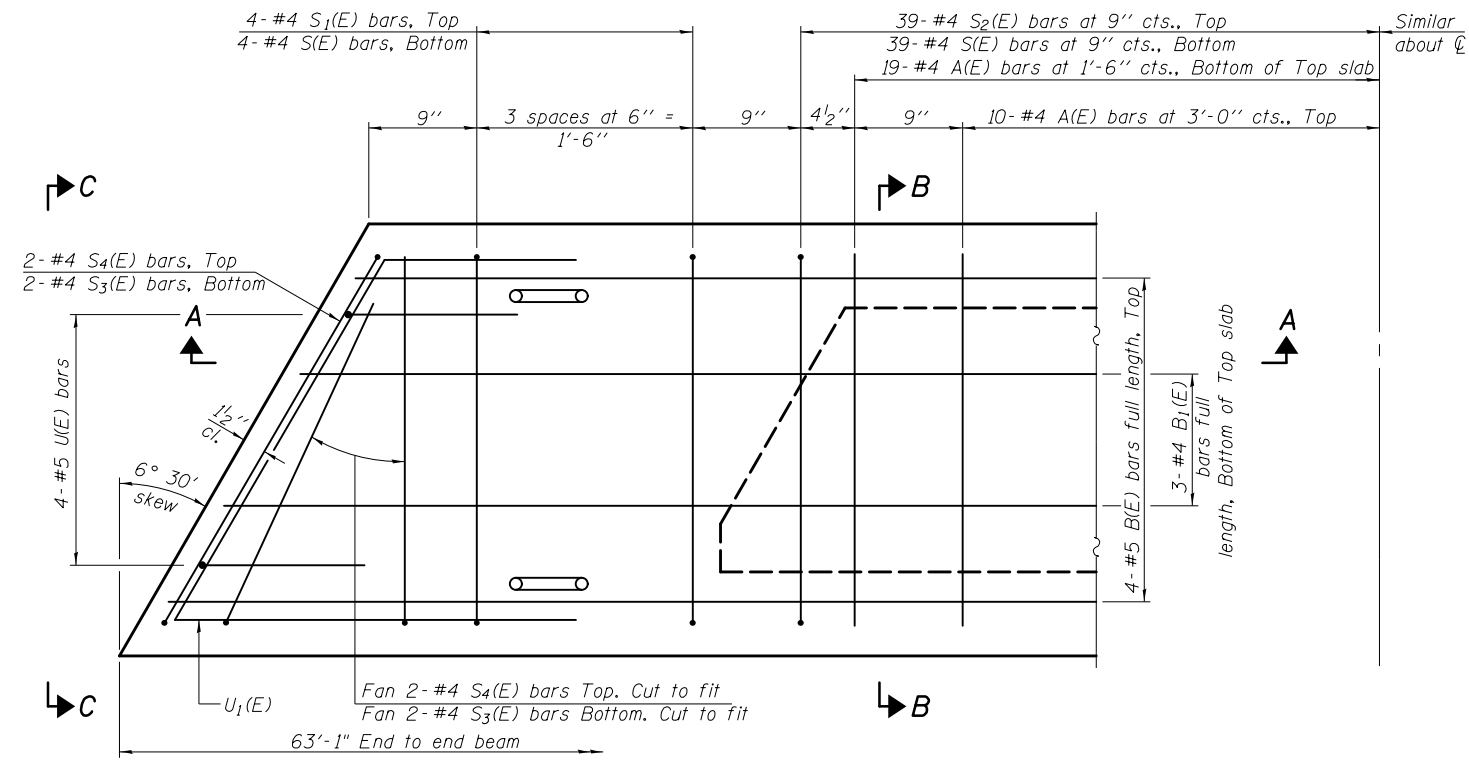
SECTION A-A



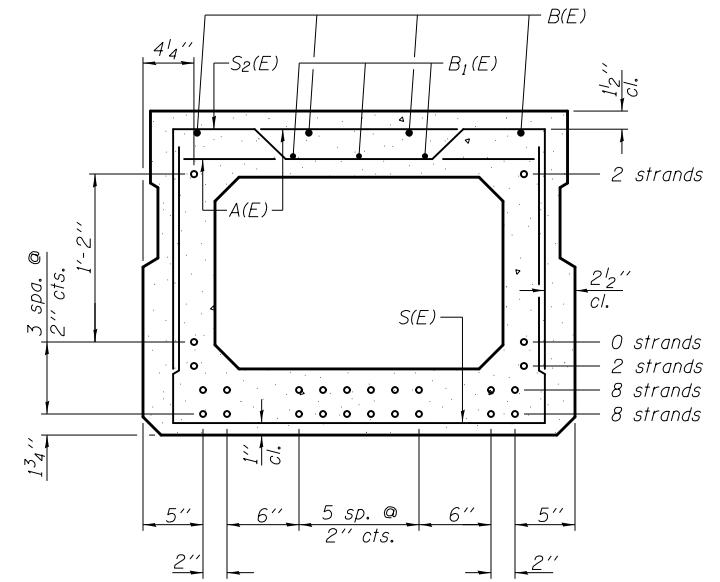
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B

(Showing reinforcement and permissible strand locations)
 Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)	57	#4	2'-7"	—
B(E)	8	#5	32'-8"	—
B1(E)	6	#4	32'-5"	—
S(E)	85	#4	6'-5"	┌
S1(E)	8	#4	5'-11"	┌
S2(E)	77	#4	6'-2"	┌
S3(E)	8	#4	4'-6"	┌
S4(E)	8	#4	4'-3"	┌
U(E)	8	#5	4'-6"	┌
U1(E)	4	#4	5'-4"	┌

Note: See sheet 6 of 17 for additional details and Bill of Material.

MINIMUM BAR LAP

- #4 bar = 2'-0"
- #5 bar = 2'-6"

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

ct:\pwwork\jayedf\02291813\0220047-79686-005-27x36DeckBms.dgn

PD-2736-L

7-1-10



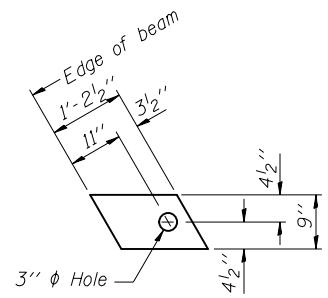
USER NAME = jayedf	DESIGNED - CMF	REVISED -
PLOT SCALE = 0.25000 '1' / in.	CHECKED - TMM	REVISED -
PLOT DATE = 1/31/2014	DRAWN - JLM	REVISED -
	CHECKED - TMM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27" x 36" PPC DECK BEAM
STRUCTURE NO. 020-0047

SHEET NO. 5 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	548-3, 548-2	DEWITT	89	59
CONTRACT NO. 70606				
ILLINOIS FED. AID PROJECT				

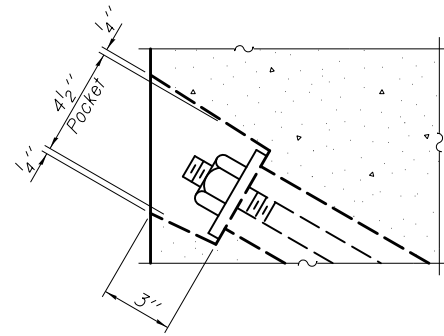


FABRIC BEARING PAD
(Exterior)

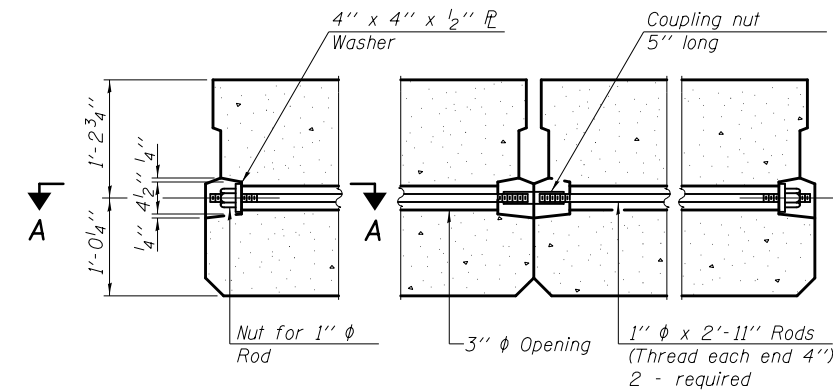
FIXED

Notes:

All bearing pads shall be 1/2" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.

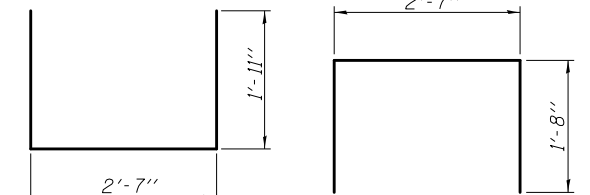


SECTION A-A



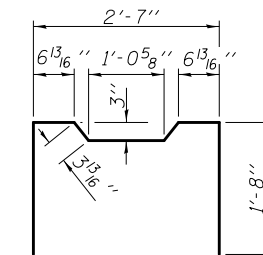
TYPICAL TRANSVERSE TIE ASSEMBLY

See sheet 8 of 17 for total number of nuts and washers required at each assembly.

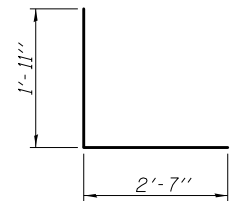


BAR S(E)

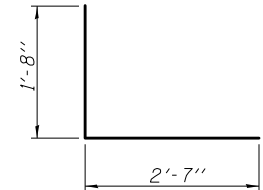
BAR S₁(E)



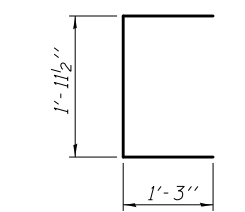
BAR S₂(E)



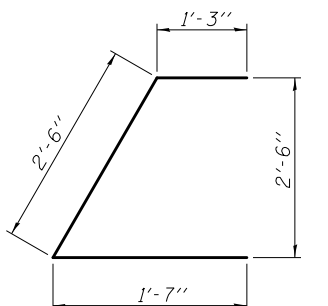
BAR S₃(E)



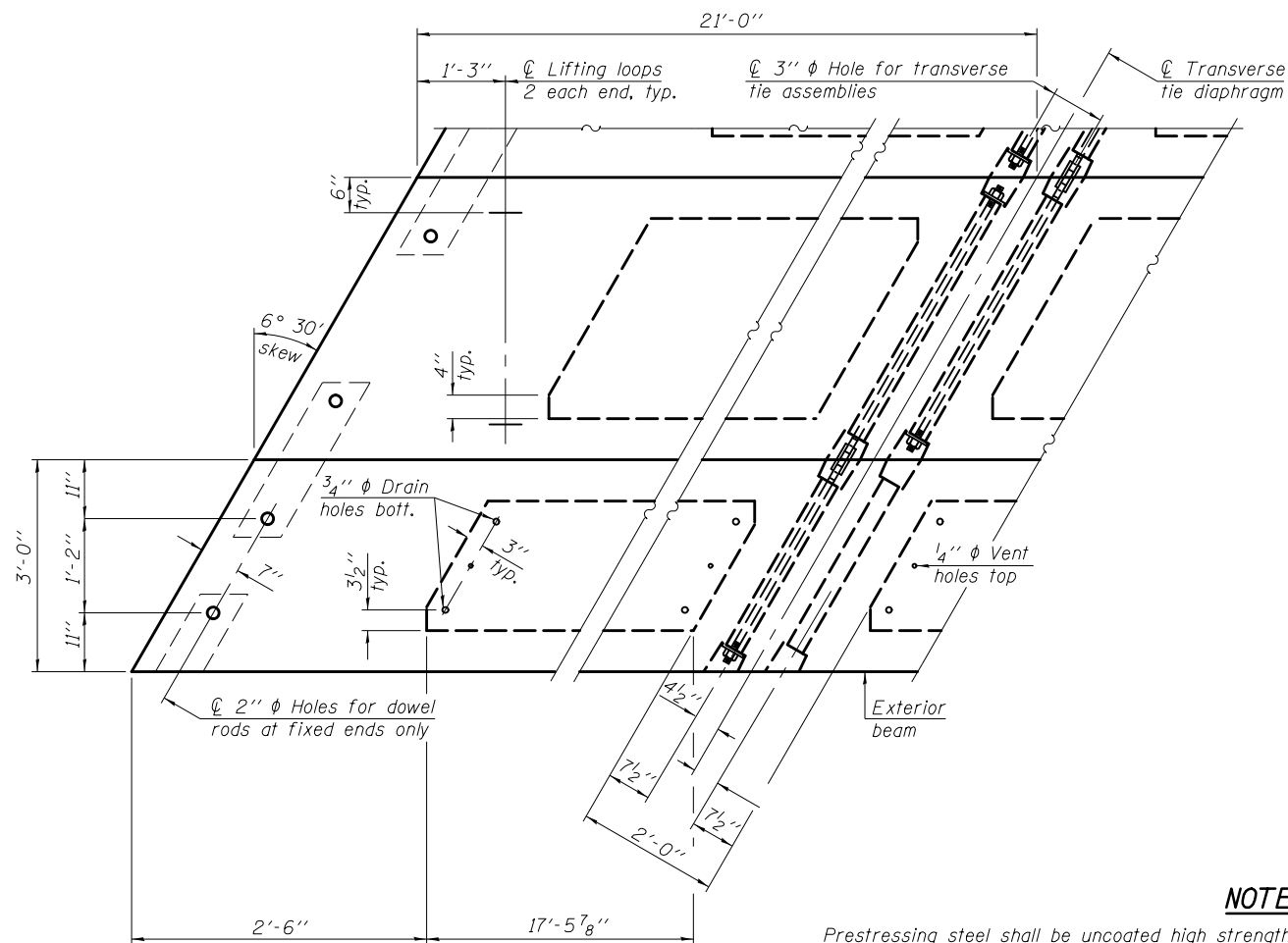
BAR S₄(E)



BAR U(E)



BAR U₁(E)

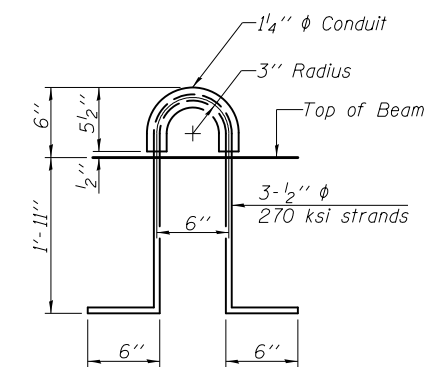


PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

- 1. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- 2. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- 3. Reinforcement bars shall conform to ASTM A 706, Grade 60.
- 4. Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- 5. A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
- 6. Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- 7. Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- 8. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



LIFTING LOOP DETAIL

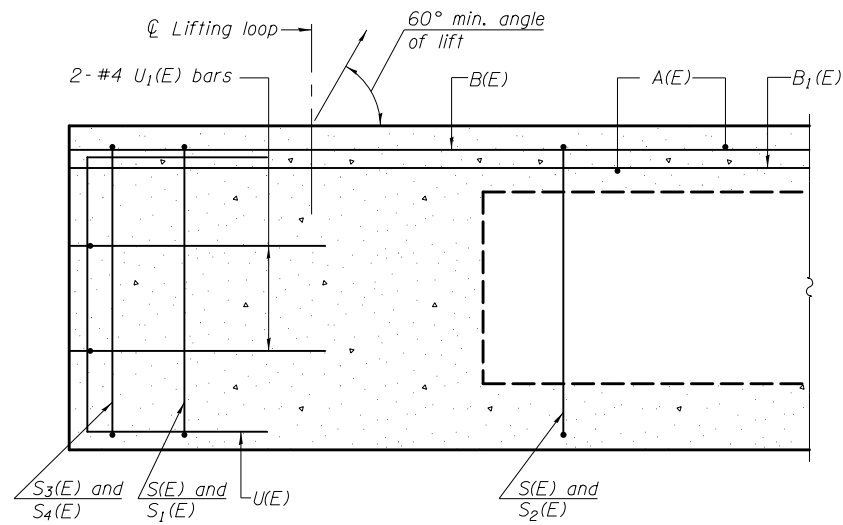
BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	379
(36" Wide PPC Deck Beams Only)		

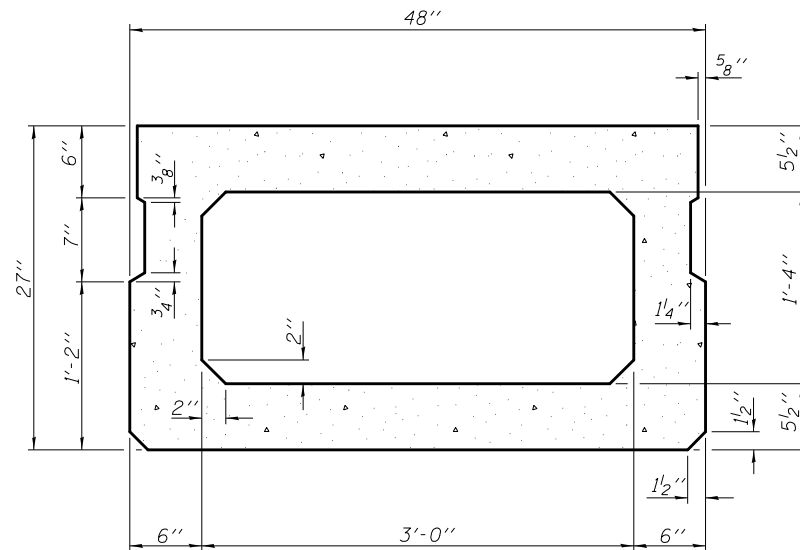
c:\pwwork\jayed\jayed.dwg 02/20/2014 7:06:06 AM 2006-DeckBmDe.r.dwg

USER NAME = jayedf	DESIGNED - CMF	REVISED -
PLOT SCALE = 0:2.0000" = 1" / 1'	CHECKED - TMM	REVISED -
PLOT DATE = 1/31/2014	DRAWN - JLM	REVISED -
	CHECKED - TMM	REVISED -

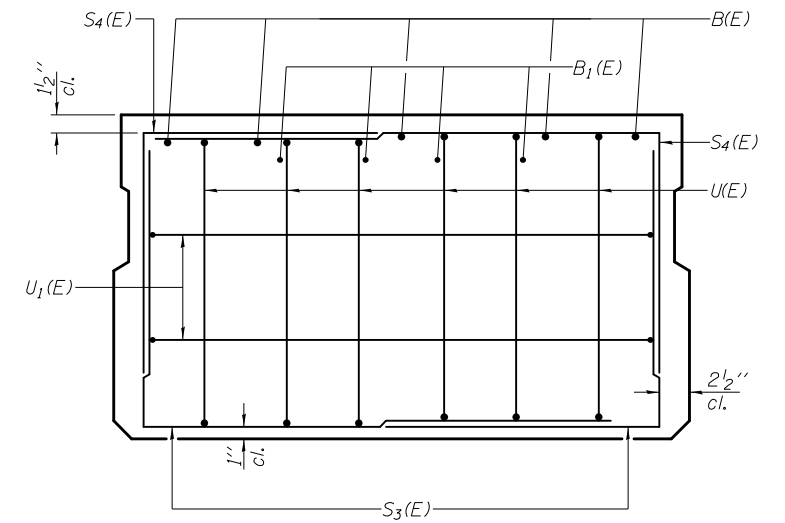
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	60
CONTRACT NO. 70606				
ILLINOIS FED. AID PROJECT				



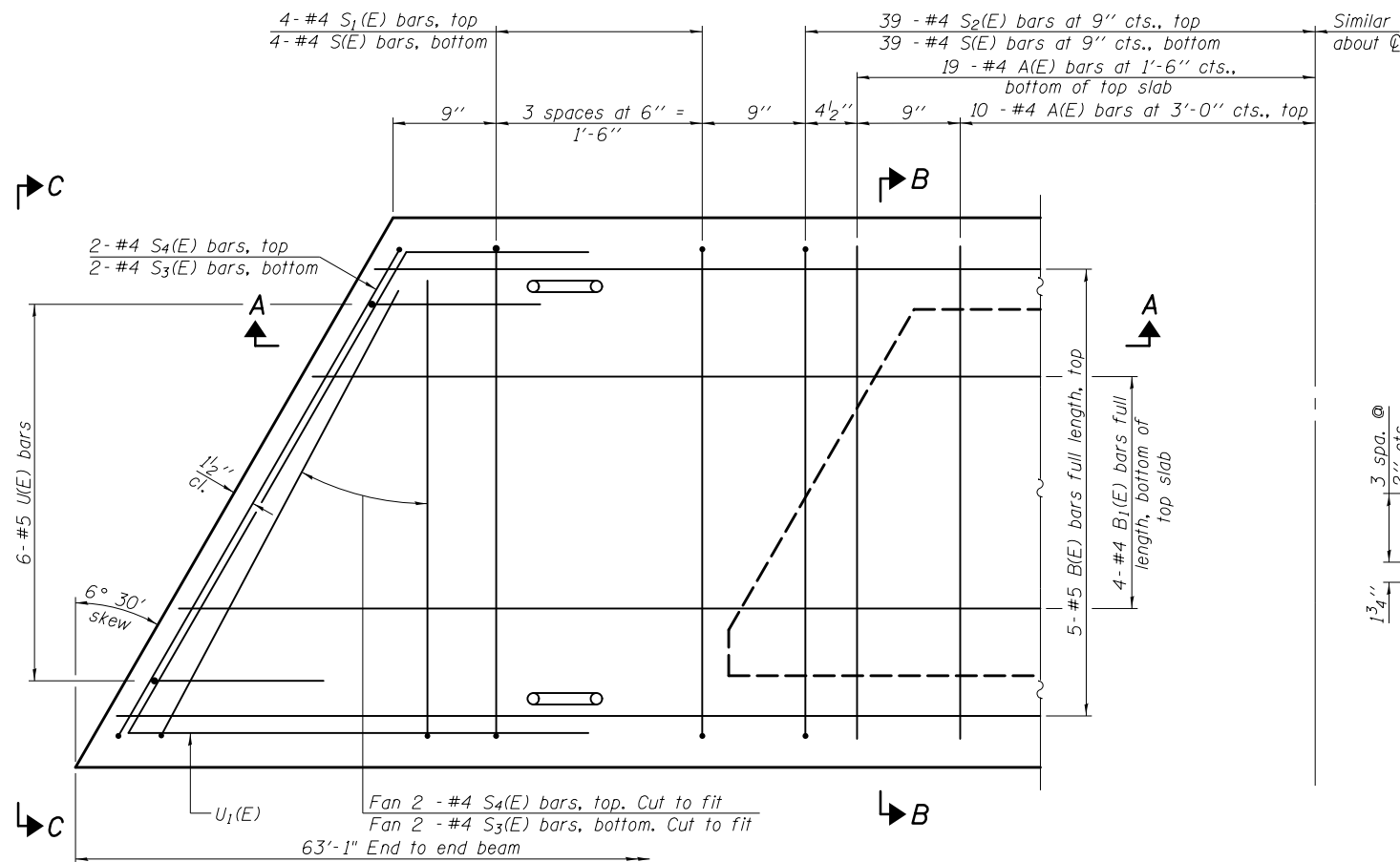
SECTION A-A



SECTION B-B
(Showing dimensions)

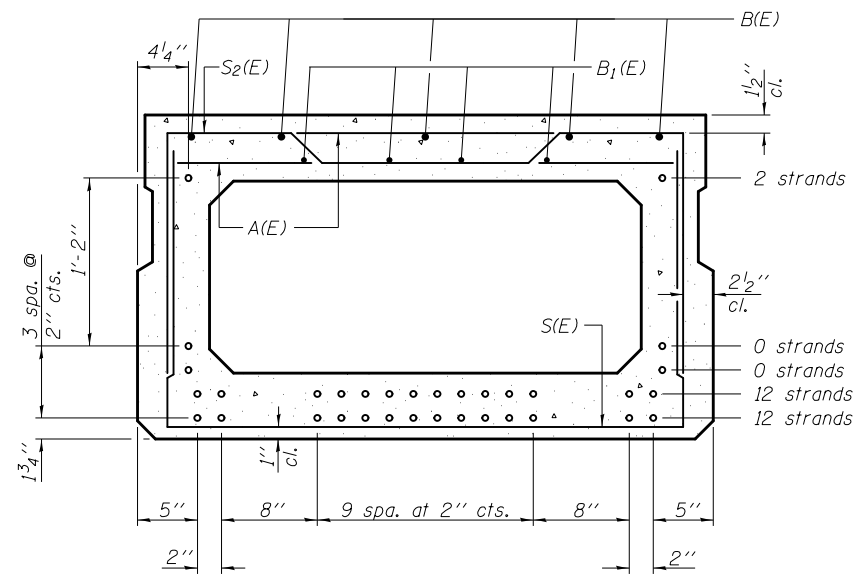


VIEW C-C



PLAN VIEW

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4 inches in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION B-B

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

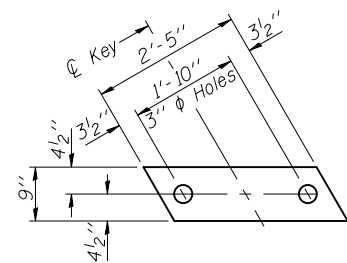
Bar	No.	Size	Length	Shape
A(E)	57	#4	3'-7"	—
B(E)	10	#5	32'-8"	—
B1(E)	8	#4	32'-5"	—
S(E)	85	#4	7'-5"	┌
S1(E)	8	#4	6'-11"	┌
S2(E)	77	#4	7'-2"	┌
S3(E)	8	#4	5'-6"	┌
S4(E)	8	#4	5'-3"	┌
U(E)	12	#5	4'-6"	┌
U1(E)	4	#4	6'-5"	┌

Note: See sheet 8 of 17 for additional details and Bill of Material.

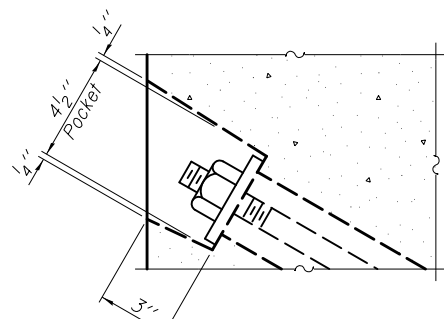
MINIMUM BAR LAP

#4 bar = 2'-0"
#5 bar = 2'-6"

c:\pwwork\jayedf\jayedf\0220047-70606-007-27x48\DeckBms.dgn

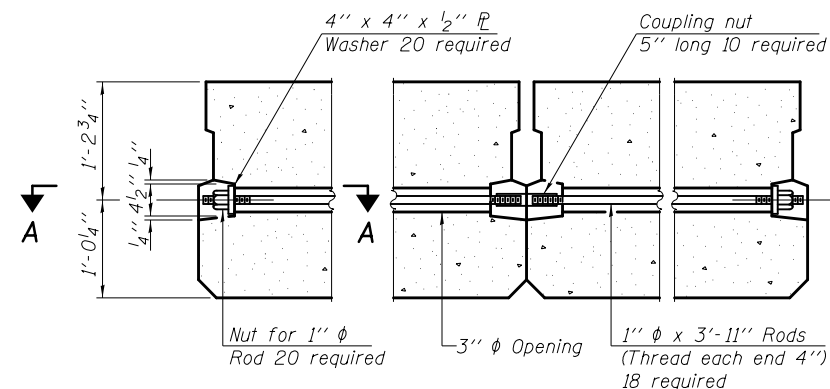


FABRIC BEARING PAD
(Interior)

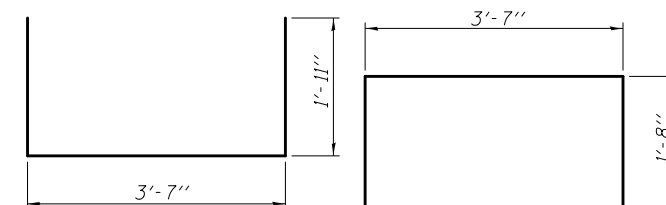


SECTION A-A

Notes:
FIXED
All bearing pads shall be 1/2" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.

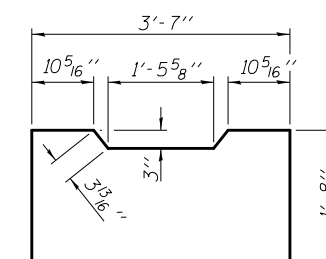


TYPICAL TRANSVERSE TIE ASSEMBLY



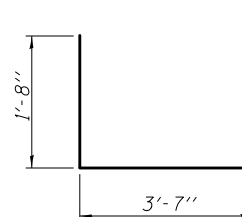
BAR S(E)

BAR S1(E)

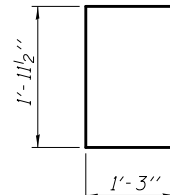


BAR S2(E)

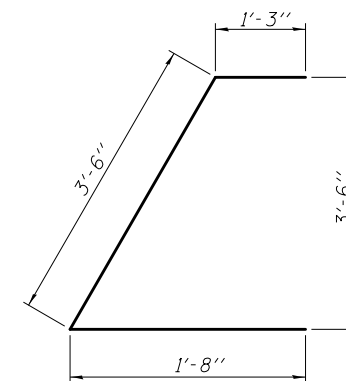
BAR S3(E)



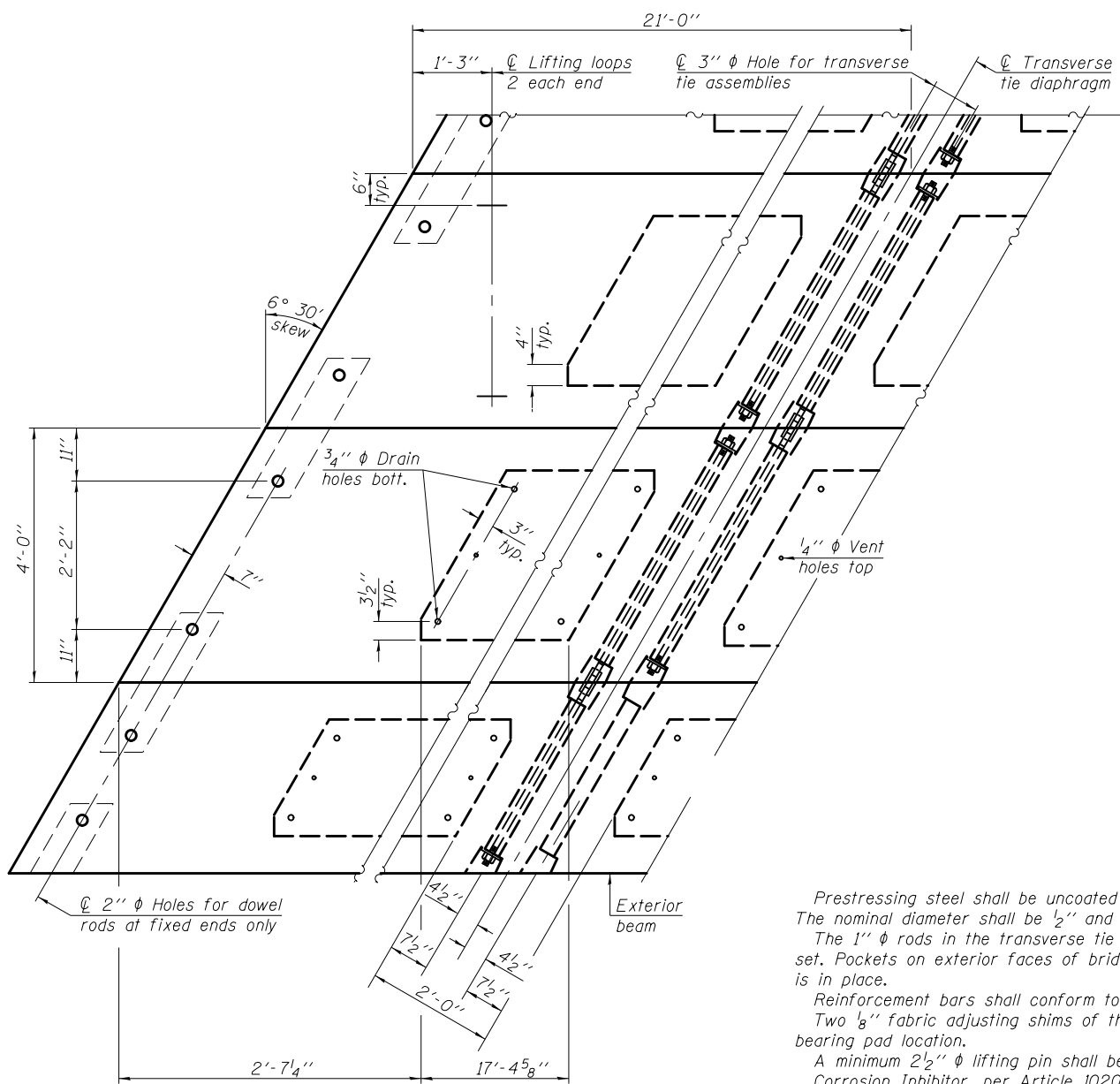
BAR S4(E)



BAR U(E)



BAR U1(E)

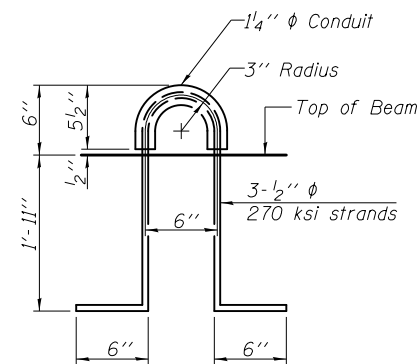


PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" phi rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Reinforcement bars shall conform to ASTM A 706, Grade 60.
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2" phi lifting pin shall be used to engage the lifting loops during handling.
Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



LIFTING LOOP DETAIL

BILL OF MATERIAL

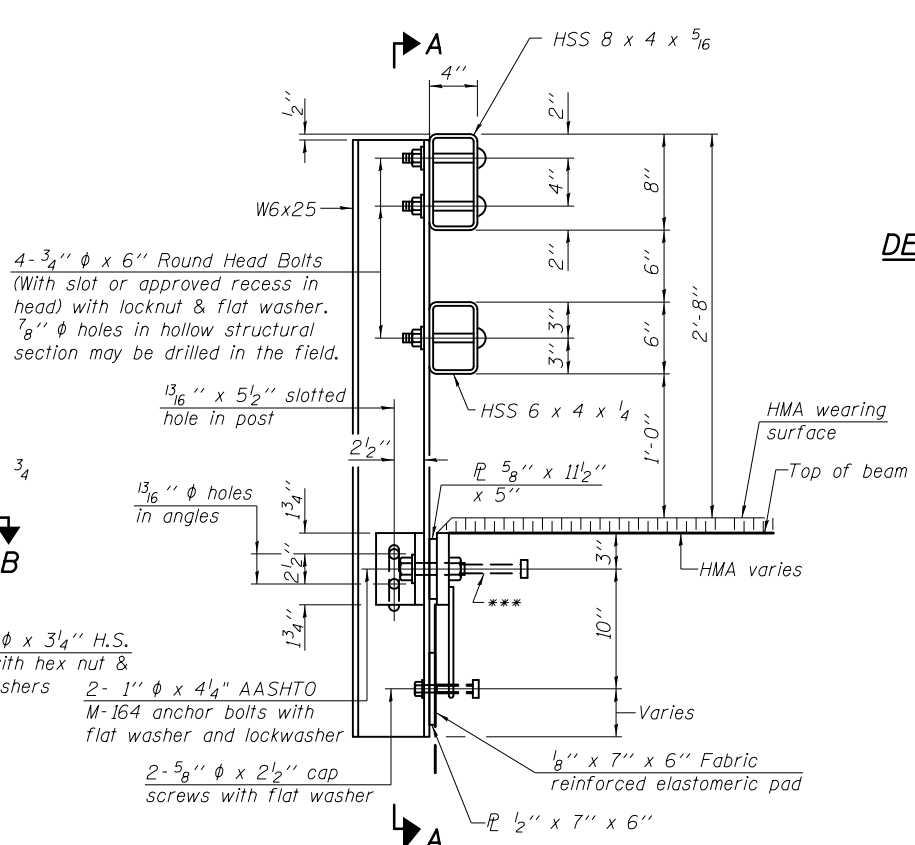
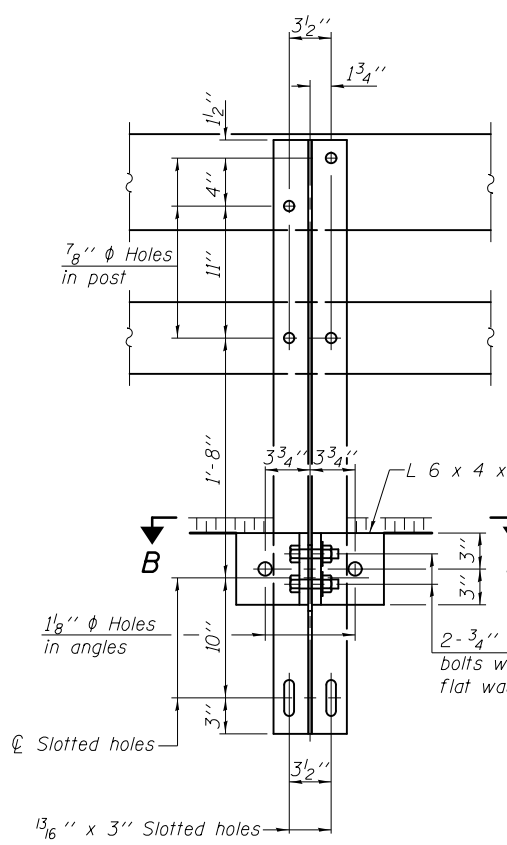
Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	2271
-------------------------------------------------	---------	------

(48" Wide PPC Deck Beams Only)

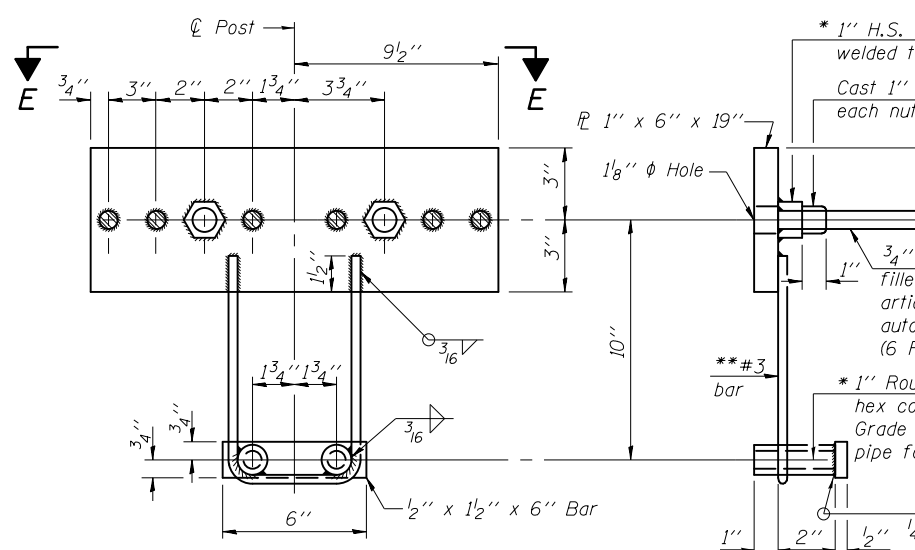
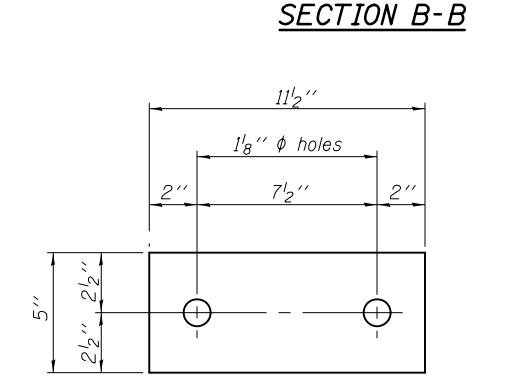
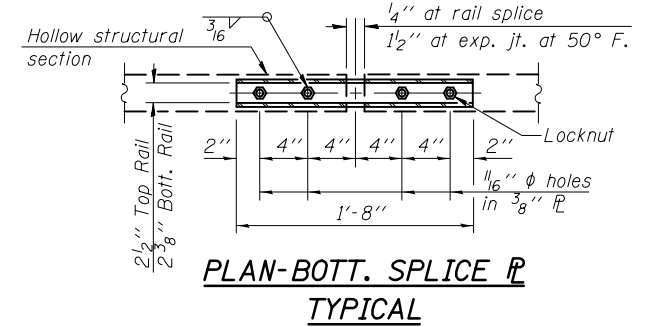
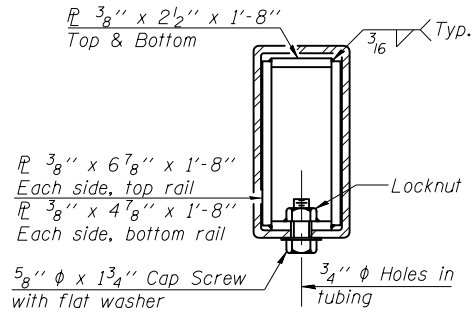
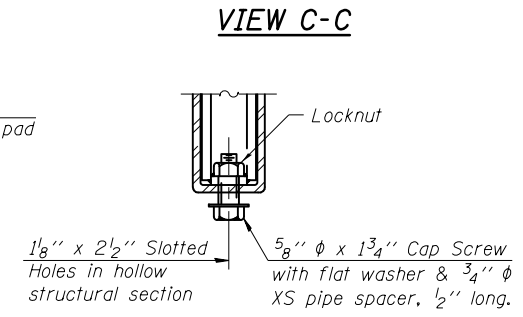
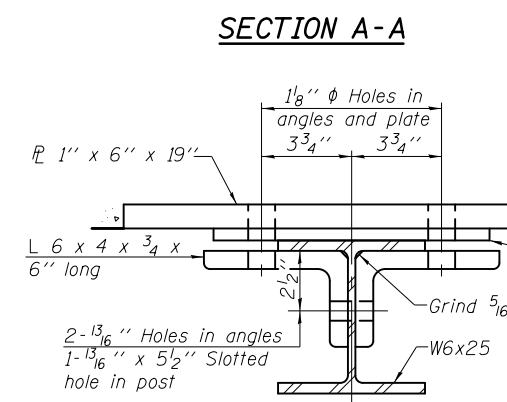
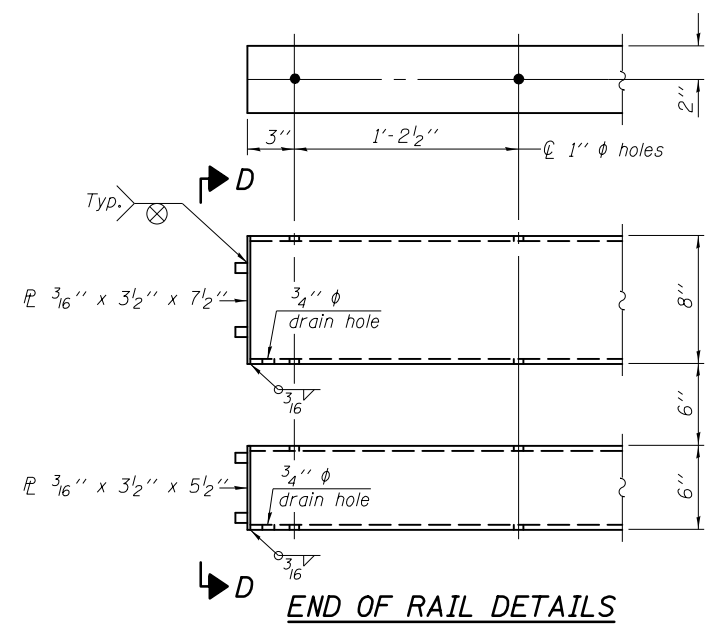
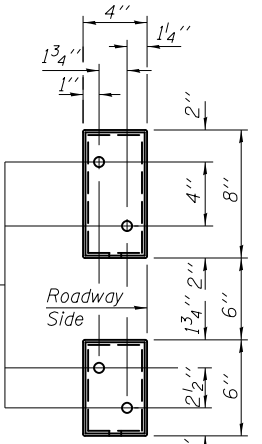
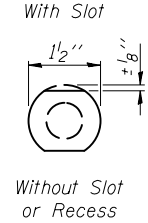
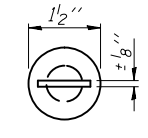
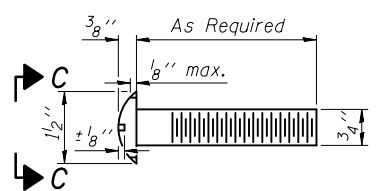
c:\pwwork\jayed\130200047-70606-008-27x48DeckBmDet.dgn

USER NAME = jayed	DESIGNED - CMF	REVISED -
PLOT SCALE = 0:2.0000' = 1" / 1'	CHECKED - TMM	REVISED -
PLOT DATE = 1/31/2014	DRAWN - JLM	REVISED -
	CHECKED - TMM	REVISED -

F.A.P. RTE. 322	SECTION 54B-3, 54B-2	COUNTY DEWITT	TOTAL SHEETS 89	SHEET NO. 62
CONTRACT NO. 70606			ILLINOIS FED. AID PROJECT	

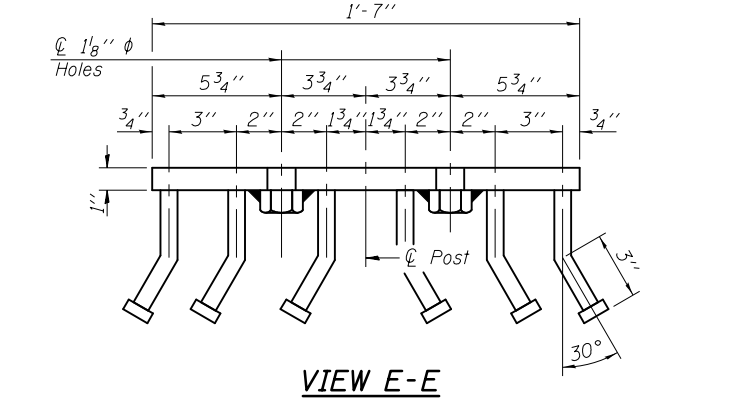


DETAIL OF 3/4" φ ROUND HEAD BOLT



BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	126



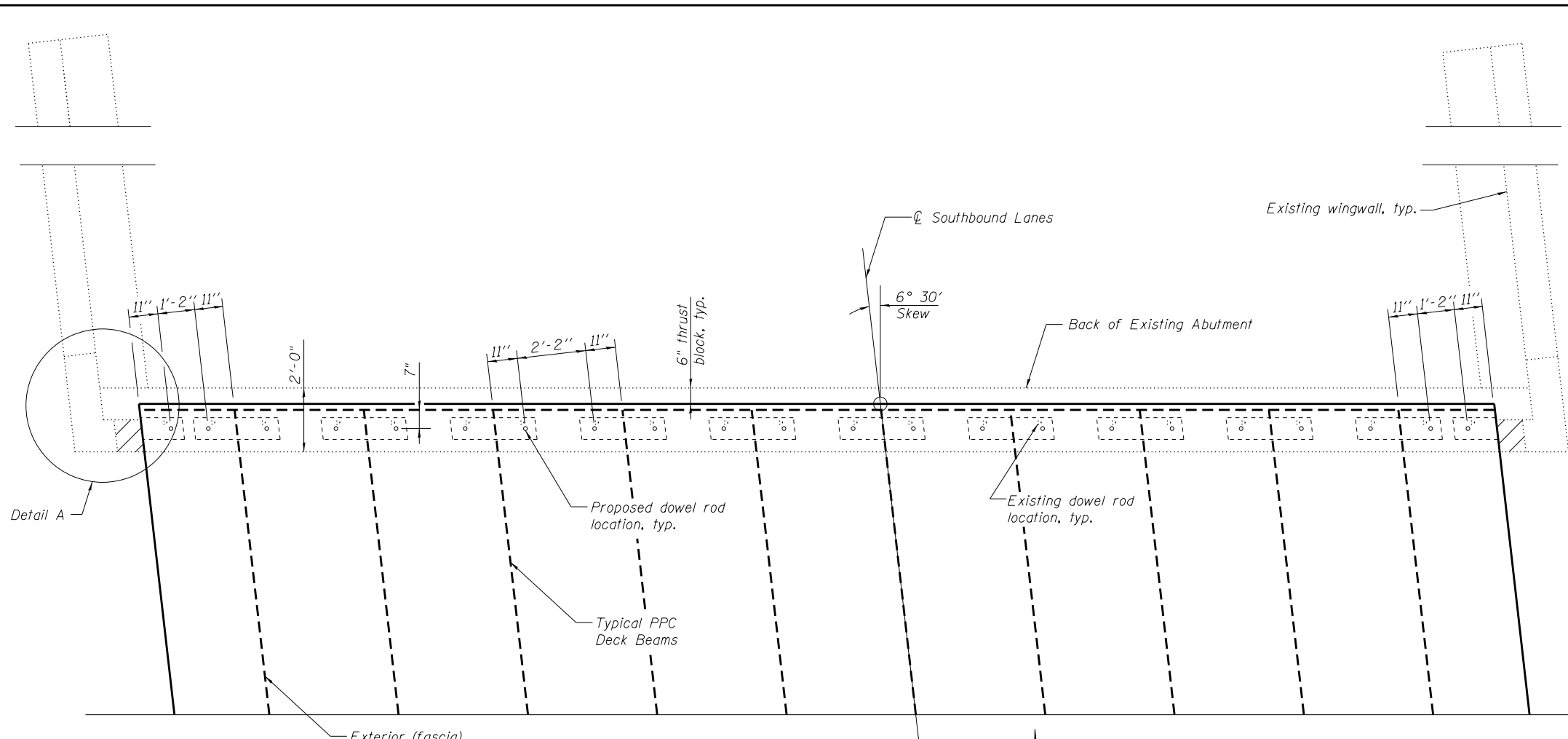
Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
 All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.
 *** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".

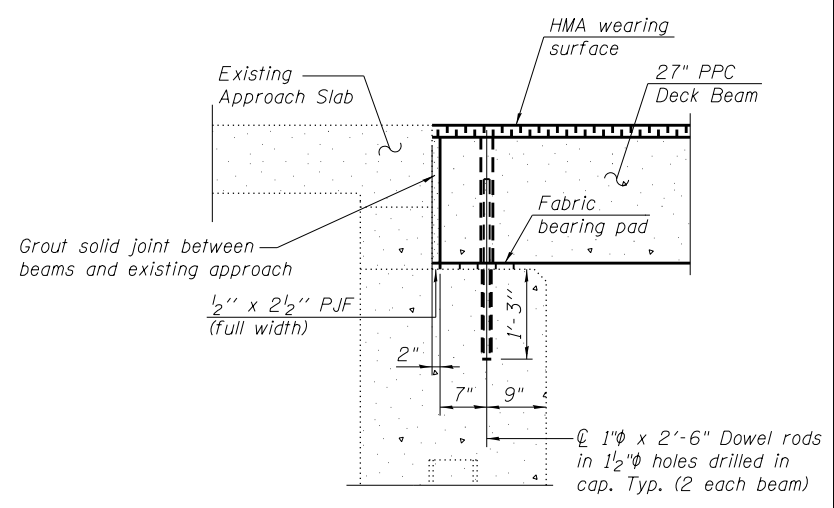
(6'-3" Maximum Post Spacing) (1 1/4" minimum to 3 1/8" maximum HMA thickness)

c:\pwwork\jayed\130220047-70606-000-51Rail.dgn



PLAN

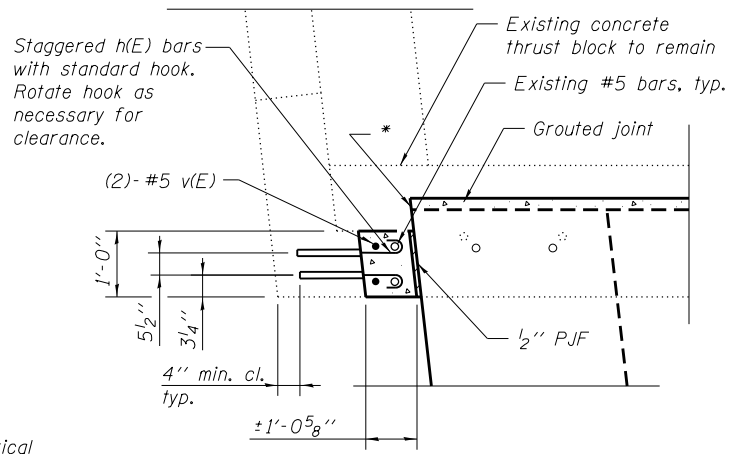
Showing Concrete Removal and new beam placement



SECTION THRU EXISTING ABUTMENT

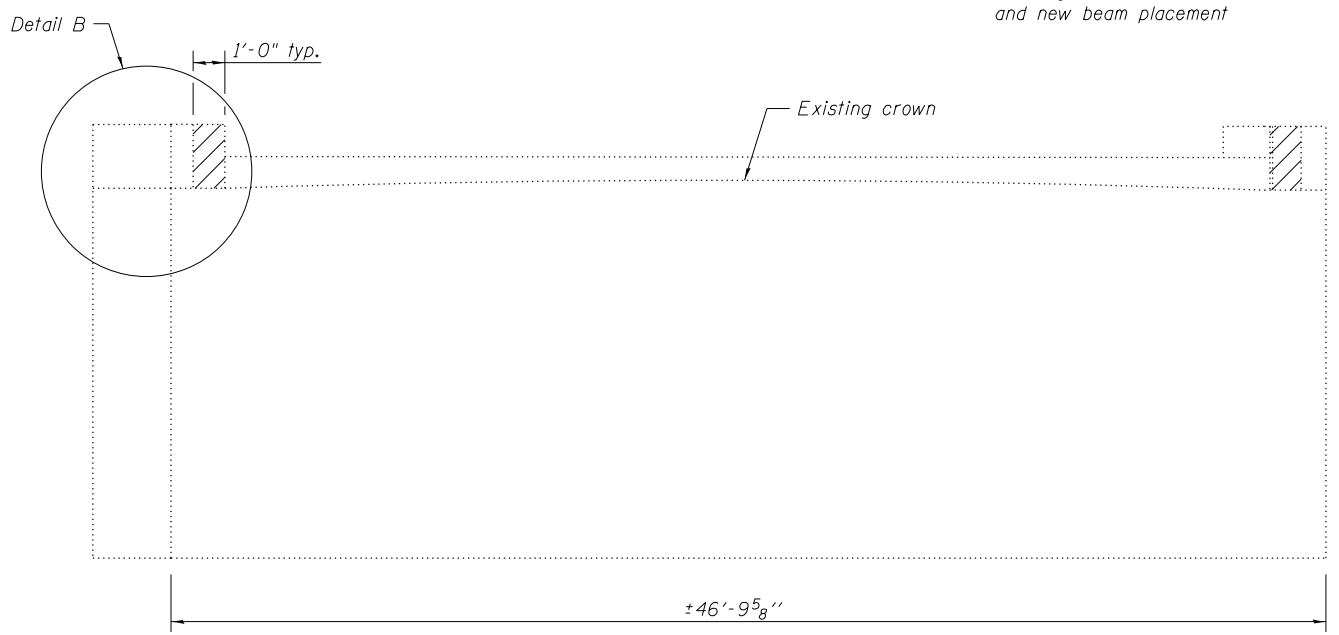
(Horiz. dim. @ Rt. L's)

* Grind or saw cut portion of existing thrust block for proposed beam placement. Void space shall be filled with grout upon completion. Cost included with Concrete Removal.



DETAIL A

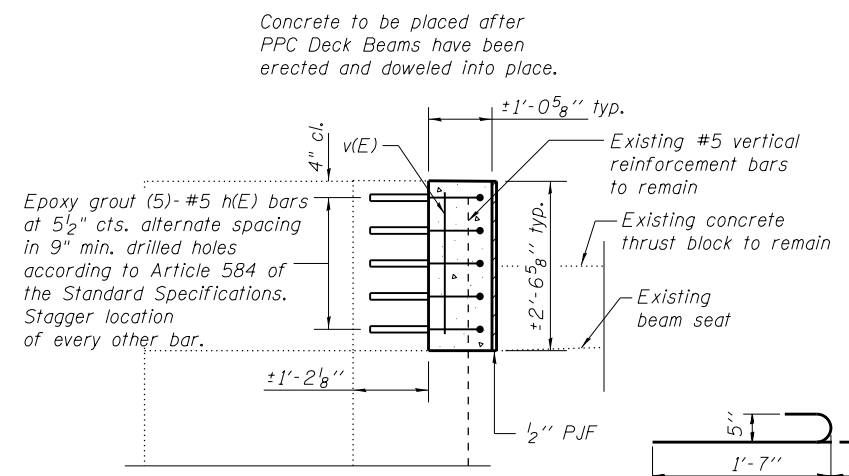
Showing placement of concrete



ELEVATION

Showing Concrete Removal (North Abutment Shown, South Abutment Similar)

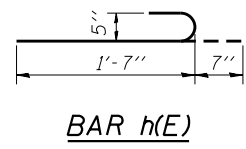
Burn existing dowel rods flush with existing concrete surface. Grind rods smooth and seal with epoxy. Cost is included with Removal of Existing Superstructures.



DETAIL B

Showing placement of concrete

(PPC Deck Beam and wearing surface not shown.) Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.



BILL OF MATERIAL FOR TWO ABUTMENTS

Bar	No.	Size	Length	Shape
v(E)	8	#5	2'-3"	—
h(E)	20	#5	2'-2"	⌋
Concrete Removal			Cu. Yd.	0.4
Concrete Structures			Cu. Yd.	0.5
Reinforcement Bars, Epoxy Coated			Pound	60

F:\Projects\10-006-4 DRAWINGS\CADD SHEETS\0220047-70606-010-Abuts.dgn



USER NAME = User1	DESIGNED - CMF	REVISED -
PLOT SCALE = 0:2.0000 '1" / in.	CHECKED - TMM	REVISED -
PLOT DATE = 3/19/2014	DRAWN - JLM	REVISED -
	CHECKED - TMM	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ABUTMENT & MISCELLANEOUS DETAILS
STRUCTURE NO. 020-0047**

SHEET NO. 10 OF 17 SHEETS

F.A.P. RTE. 322	SECTION 54B-3, 54B-2	COUNTY DEWITT	TOTAL SHEETS 89	SHEET NO. 64
CONTRACT NO. 70606			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 412	8	DEWITT	111	56
F.P.D. ROAD DIST. NO. 1				
F.P.D. ROAD DIST. NO. 1				

GENERAL NOTES

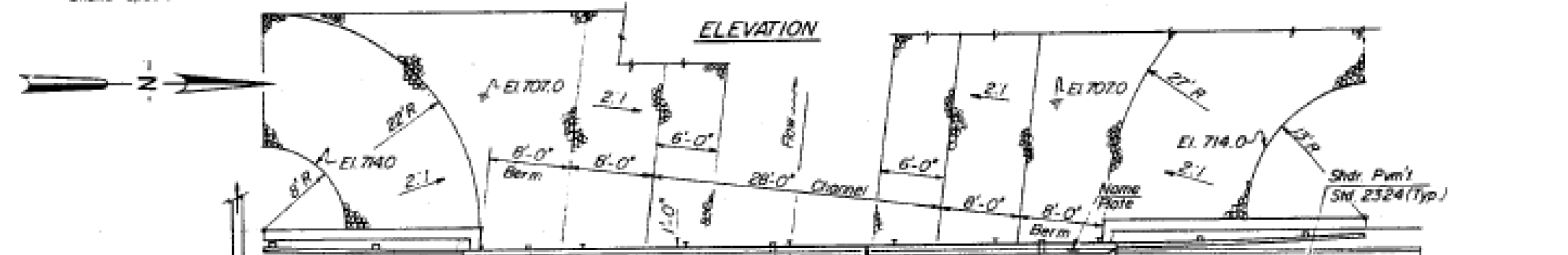
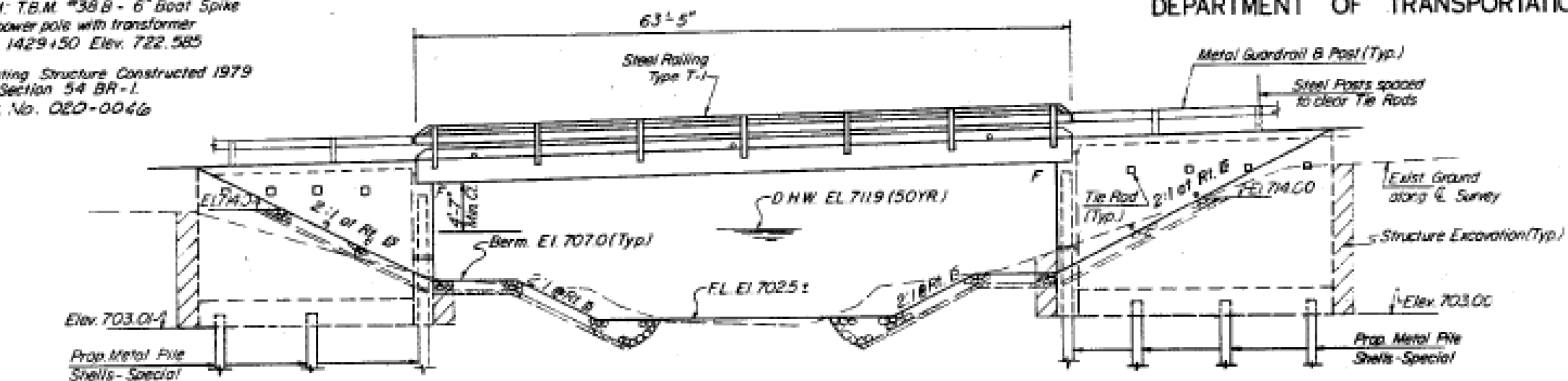
See Proposal for Boring Date
All reinforcing bars shall conform to AASHTO M-31 or M-53 Grade 60.
A Calcium Nitrite Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for Precast Prestressed Concrete Deck Beams.
The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered, a min. of a 1/4".
The back of the breastwalls and the back of wings shall be waterproofed in accordance with Article 503.11 of the Standard Specifications.
Backfill shall be placed behind the abutments after the superstructure has been erected and the thrust blocks poured.
Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied. Layout of stone riprap may be varied in the field to suit ground conditions as directed by the Engineer.
The Contractor shall drive two Metal Pile Shells - Special, Test Piles in a permanent location one at each Abutment as directed by the Engineer before ordering the remainder of the piles.
The 1/4" Steel Tie Rods, and all associated hardware, that will be used for the Abutment Tie-Backs, shall be galvanized in accordance with AASHTO M252, M111, &/or ASTM A365.
Protective Coat shall be applied to Inside Face and Top of Curbs, and Top of Abutment Wingwalls.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Class X Concrete	Cu Yds	4.1	175.7	179.8
P.P.C. Deck Beams (2" Depth)	Sq. Ft	2664		2664
Reinforcement Bars	Lbs	200	21,170	21,370
Furnishing Metal Pile Shells - Special	Lin. Ft		1204	1204
Driving & Filling Shells	Lin. Ft		1204	1204
Test Pile Metal Shells - Special	Each		2	2
Structure Excavation	Cu Yds		321	321
Structural Steel	Lbs		2100	2100
Steel Railing Type T-1	Lin. Ft	127		127
Leveling Binder (Machine Method)	Ton	11		11
Bit Coat Surf. Course, Mixture D, Class I	Ton	27		27
Waterproofing Membrane System	Sq. Yds	286		286
Portland Cement Mortar Facing Course	Lin. Ft	634		634
Name Plates	Each	1		1
Channel Excavation	Cu Yds		113	113
Stone Riprap	Sq. Yds		745	745
Protective Coat	Sq. Yds		33	33

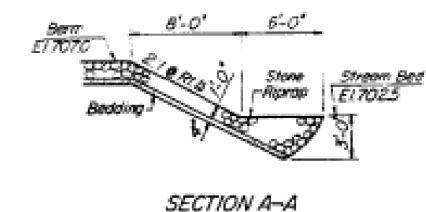
Joe Ganci
52927

B.M. T.B.M. #38 B - 6" Bolt Spike
in power pole with transformer
Sta. 1429+50 Elev. 722.585
Existing Structure Constructed 1979
as Section 54 BR-1.
Str. No. 020-0046

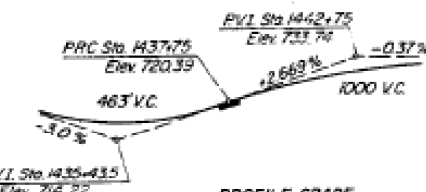


STATION 1437+53.04
BUILT BY
STATE OF ILLINOIS
F.A. RTE. 412 SEC. 54B-2
F.A. PROJ. FD-42 (R1)
LOADING HS20
STRUCTURE NO. 020-0047

NAME PLATE
(See Std. 2113)



SECTION A-A



PROFILE GRADE
(Applies to Top Class I thru limits of Bridge & Med. Edge of Pavl.)

DESIGN STRESSES

PRECAST PRESTRESSED UNITS
f_c = 5,000 p.s.i.
f_{ci} = 4,000 p.s.i.
f_s = 270,000 p.s.i. 1/2" Strands
f_{si} = 189,000 p.s.i. 1/2" Strands

FIELD UNITS SUBSTRUCTURE
f_c = 3,500 p.s.i.
f_y = 60,000 p.s.i. (Reinf. Grade 60)

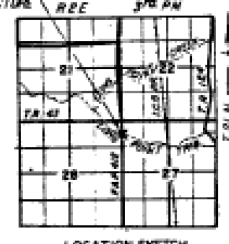
Allowable Future W.S. = 25 p.s.f.
DESIGN LOADING: HS 20-44
DESIGN SPECIF. - 1977 A.A.S.H.T.O. & 1978, 1979, 1980 & 1981
Interims as applicable
LOAD FACTOR DESIGN

WATERWAY INFORMATION

Drainage Area 8.30 Sq. Mi. *Low Grade Elev. 717.49 @ Sta. 1435+57

Flood	Freq. W.	C.F.S.	Opening Sq. Ft.	Nat. Exist.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	1680	425	425	711.9	0.54	0.66	712.44
Base	100	1930	456	456	712.3	0.63	0.78	712.93
Overtopping	-	-	-	-	-	-	-	-
Max. Calc.	500	2504	534	534	713.3	0.78	0.96	714.08

* Prop. S.B. Lanes



LOCATION SKETCH

APPROVED
FOR STRUCTURAL ACCOUNT ONLY
James J. Anderson
Engineer of Bridge Structures



GENERAL PLAN & ELEVATION
F.A.P. 412 (U.S. RTE. 51) OVER
TRIB. OF LONG POINT CREEK
SECTION 54B-2
DEWITT COUNTY
STATION 1437+53.04

FOR INFORMATION ONLY

DESIGNED	EFV
CHECKED	D.V.K.
DRAWN	J.T.
CHECKED	G.E.P.

12-2-82



USER NAME	-	DESIGNED	-	REVISED	-
CMF		TMM			
DESIGNED	-	DRAWN	-	REVISED	-
CMF		JLM			
CHECKED	-	CHECKED	-	REVISED	-
TMM		TMM			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

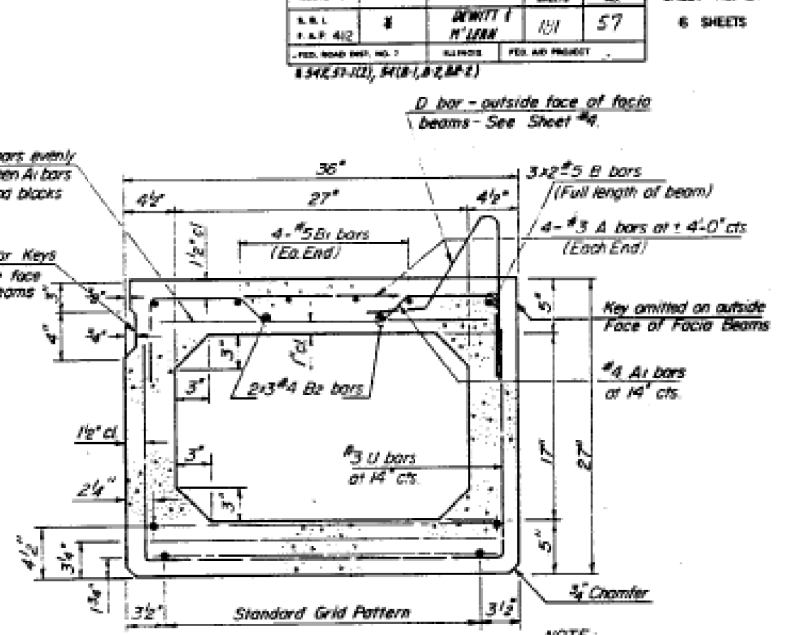
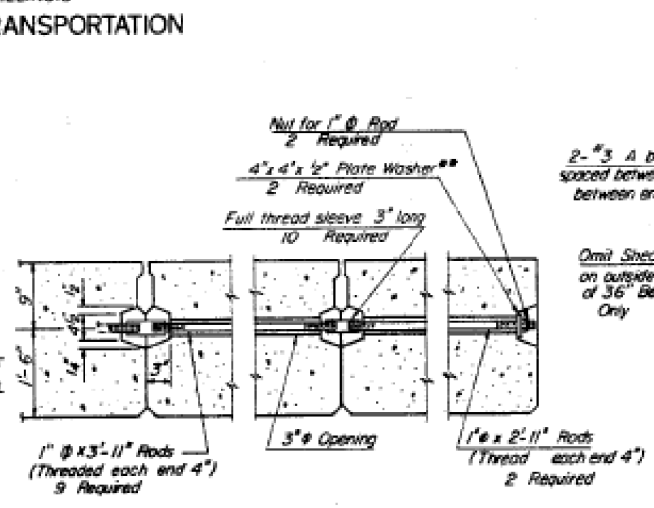
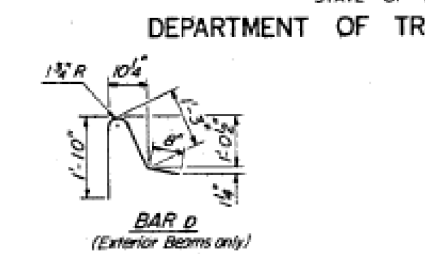
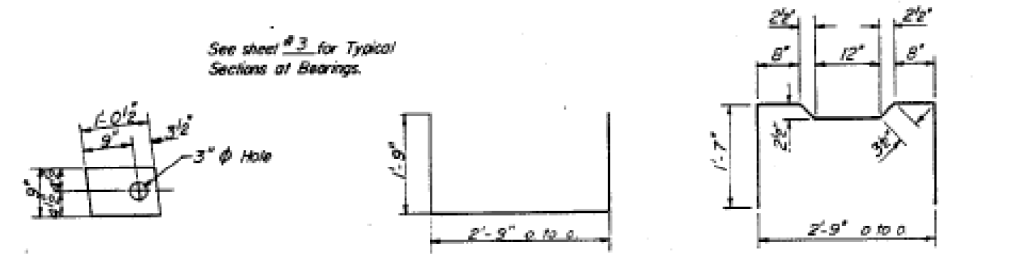
EXISTING BRIDGE PLANS
STRUCTURE NO. 020-0047
SHEET NO. 11 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	65
CONTRACT NO. 70606				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

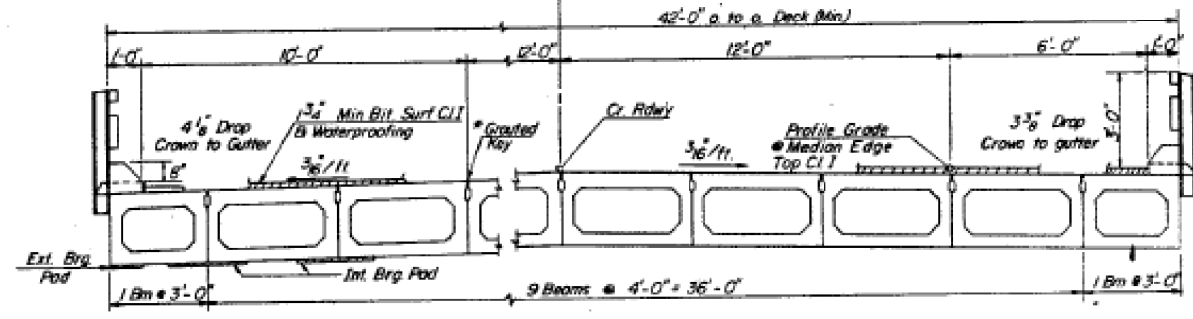
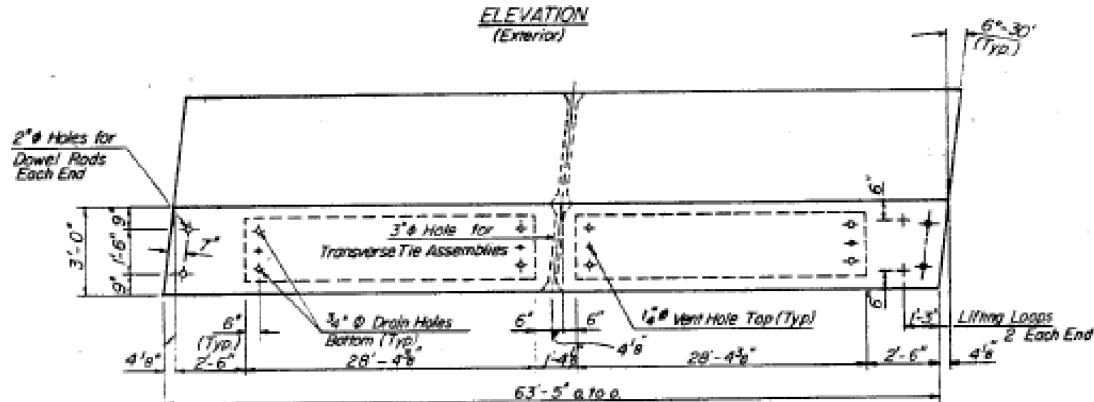
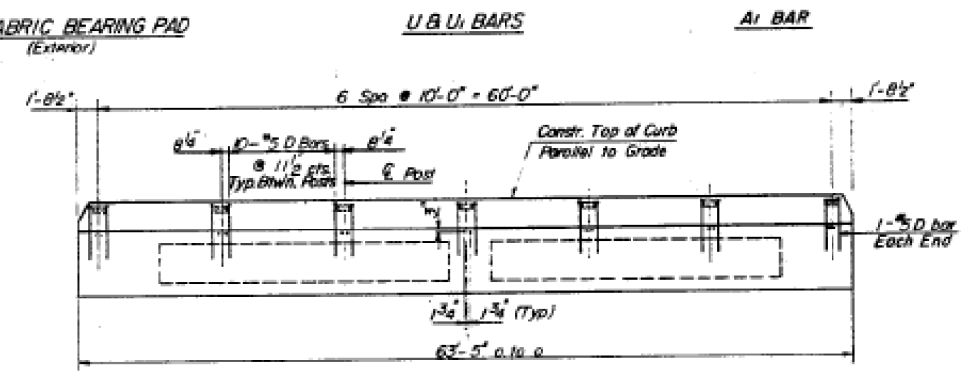
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 412	5	DEWITT	101	57
FED. ROAD DIST. NO. 7		SUBNOTE	FED. AID PROJECT	
154E-51-021, 541B-1, 2, 3A-2				

SHEET NO. 2
6 SHEETS



NOTE:
Place strands symmetrically about E beam, and to miss drain holes cast in beam.

15-1/2" Strands, Each Strand Stressed to 28,900 lbs
6-Strands 1-3/4" up, 7-Strands 3/4" up, 2-Strands 4 1/2" up.



* See Special Provisions

For Details of Rolling Curb, B Drains See Sheet No. 4.

ONE UNIT
BAR SCHEDULE

Bar	No	Size	Length	Shape
A	108	#3	2'-8"	—
A1	59	#4	6'-1"	—
B	6	#5	22'-9"	—
B1	8	#5	12'-9"	—
B2	6	#4	22'-3"	—
D	62	#5	3'-9"	—
U	51	#3	6'-3"	—
U1	8	#4	6'-3"	—

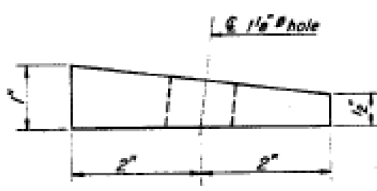
BILL OF MATERIAL

Precast Prestressed Conc.	Sq. Ft.	381
Deck Beams (27" Depth)		

36" BEAM DETAIL
FAP. 412 (U.S. RTE. 51) OVER
TRIB. OF LONG POINT CREEK
SECTION 54B-2
DEWITT COUNTY
STA 1437+53.04

NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270.
The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
Lifting loops shall be 3/4" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 46,000 lbs. or 3-7 Wire stressed relieved 5 @ 270 ksi strands.
The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive the bar on outside shall be filled with grout after transverse tie assembly is in place.
Reinforcement bars shall conform to AASHTO M-31 or M-53, Grade 60.
The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/2" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.
Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.
Required Release Strength, f_{ci} shall be 4,000 psi.
An equal substitution of the low-relaxation strands for the stress relieved strands will be permitted.



FOR LIFTING LOOP DETAIL SEE SHEET NO. 3

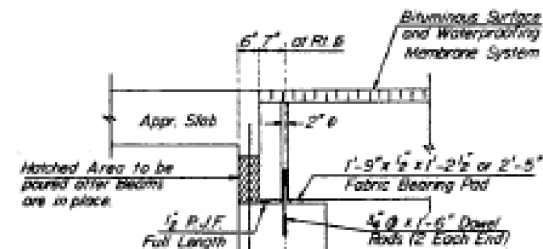
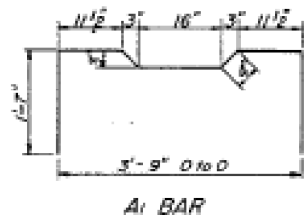
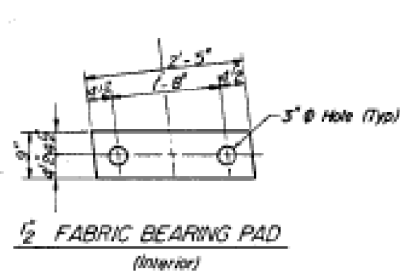
DESIGNED	E.F.V.
CHECKED	D.V.K.
DRAWN	T.D.
CHECKED	G.E.P.

c:\pwwork\jayed\jayed\0200047-70606-012-Ex-BridgePlans.dgn

FOR INFORMATION ONLY

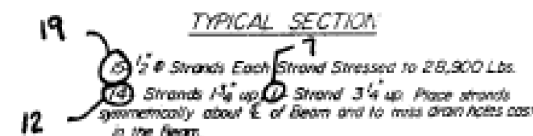
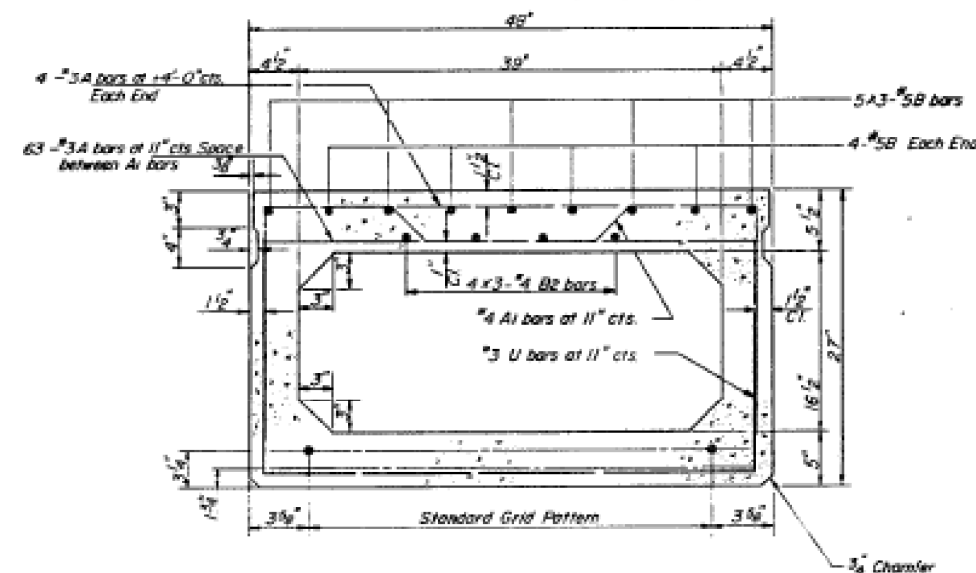
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3
U.S. 412	8	DEWITT	101	56	6 SHEETS
FED. ROAD DIST. NO. 1		ILLINOIS	FED. PROJ. NO.		
# 548, 57-102, 5418 (R 2, R 2)					



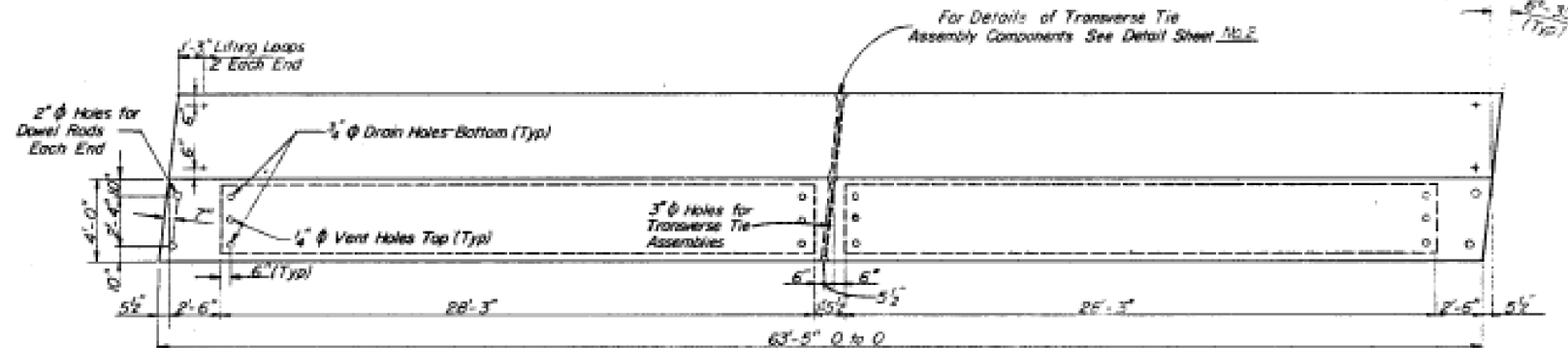
FIXED BRG'S • ABUT'S

Dowel Rods to be grouted after Beams are in place and, prior to grouting the Shear Keys, grout at dowels shall have 3 k.s.i. strength.

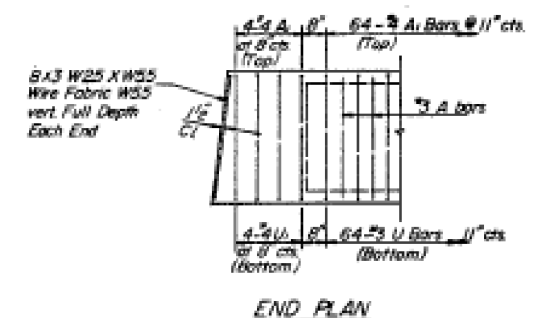


REVISED-4-9-86 JMG

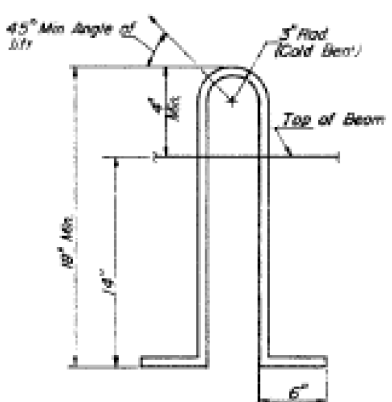
NOTE: See sheet No. 2 for Typical Cross Section.



PLAN

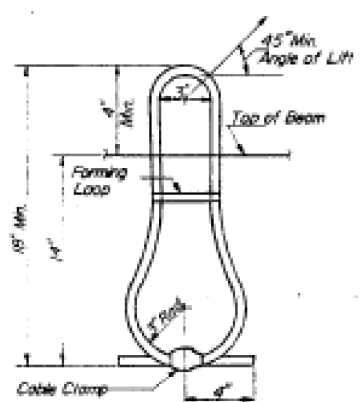


END PLAN



LIFTING LOOP DETAIL

(Lifting Loops consisting of 3-1/2" #270 ksi strands.)



ALTERNATE LIFTING LOOP DETAIL

(Lifting Loops consisting of 3-1/2" #270 ksi strands.)

NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be 1/2 and the nominal cross-sectional area shall be 0.153 sq. in.
The 1/2 rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Packers that receive the bar on outside shall be filled with grout after transverse tie assembly is in place.
Reinforcement bars shall conform to AASHTO: M-31 or M-33, Grade 60.
The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8 fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.
Lifting loops shall be 3/4 diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 46,000 lbs, or 3-7 wire stress relieved 1/2 # 270-ksi strands.
Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.
Required Release Strength, f_{cr} shall be 4,000 psi.
An equal substitution of the low-relaxation strands for the stress relieved strands will be permitted.

ONE UNIT BAR SCHEDULE

Bar	No	Size	Length	Shape
A	71	#3	3'-8"	
A1	72	#4	7'-1"	
B	15	#5	22'-9"	
B1	8	#5	12'-8"	
B2	12	#4	22'-3"	
U	64	#3	7'-3"	
U1	8	#4	7'-3"	

BILL OF MATERIAL		
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq Ft.	2283

48" BEAM DETAIL
FAR 412 (U.S. RTE. 51) OVER
TRIB. OF LONG POINT CREEK
DEWITT COUNTY
STATION 1437 + 53.04

DESIGNED	E.F.V.
CHECKED	D.V.K.
DRAWN	T.D.
CHECKED	D.V.K.

FOR INFORMATION ONLY

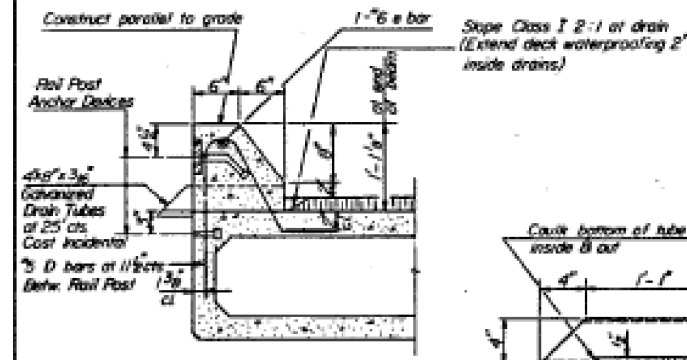


USER NAME	= jaymedf	DESIGNED	- CMF	REVISED	-
		CHECKED	- TMM	REVISED	-
PLOT SCALE	= @2.0000 "1" = 1"	DRAWN	- JLM	REVISED	-
PLOT DATE	= 1/31/2014	CHECKED	- TMM	REVISED	-

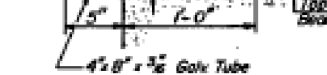
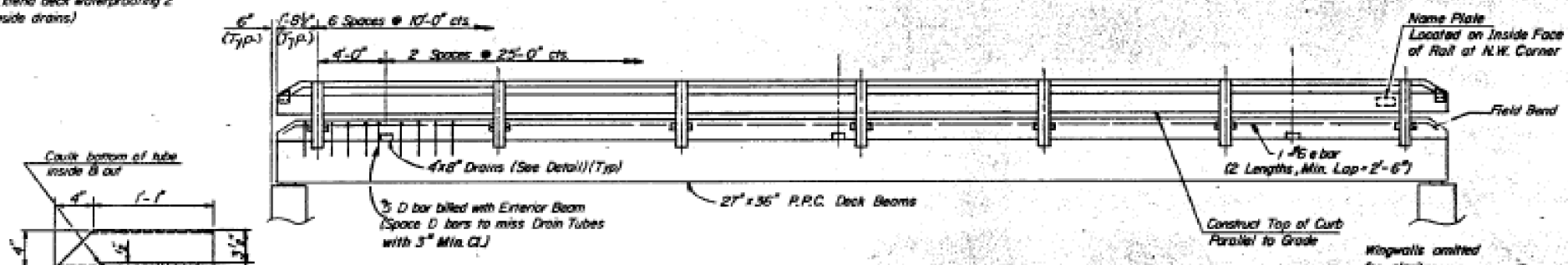
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
STRUCTURE NO. 020-0047
SHEET NO. 13 OF 17 SHEETS

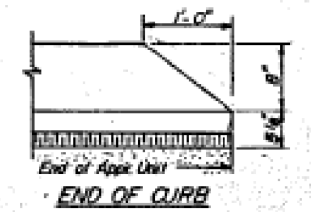
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	548-3, 548-2	DEWITT	89	67
ILLINOIS			CONTRACT NO. 70606	
FED. AID PROJECT				



SECTION THRU CURB
Curbs shall be poured in the field.



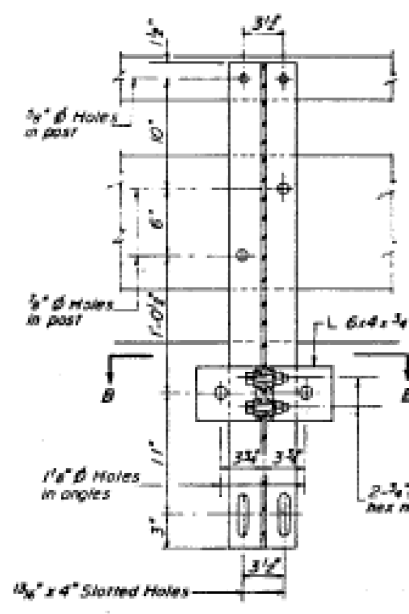
DRAIN DETAIL
(Cost Incidental to Class X Concrete)



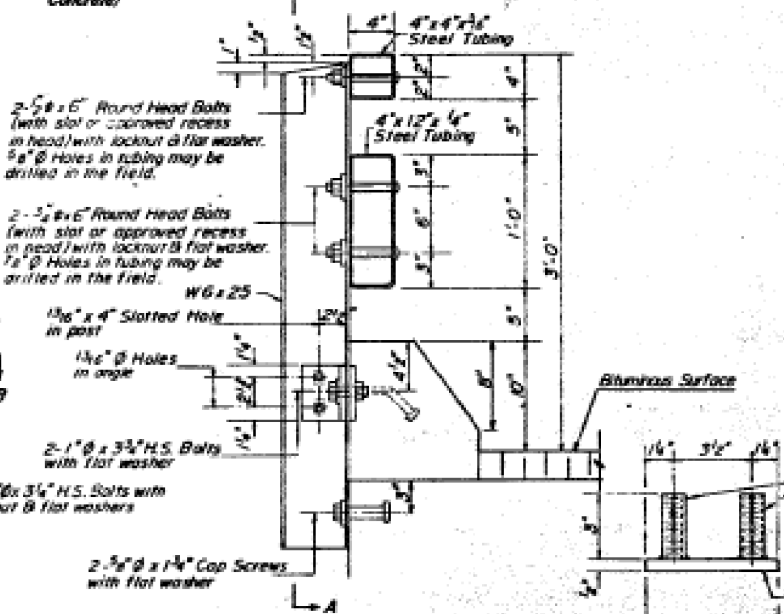
END OF CURB

NOTES

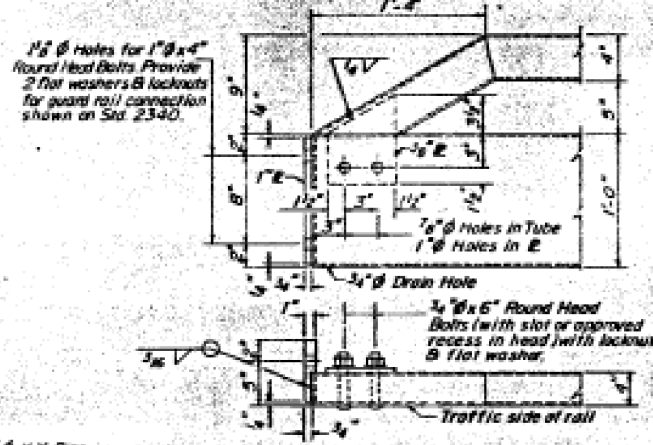
- All structural steel tubing shall conform to the requirements of A.S.T.M. designation A-500 Grade B Structural Steel Tubing.
- All other steel shapes and plates shall conform to the requirements of A.A.S.H.T.O. M-153 except posts and angles shall conform to A.A.S.T.H.O. M-223, Grade 50.
- Bolts, cap screws and nuts shall conform to the requirements of A.S.T.M. designation A-307 except for high strength bolts, nuts and washers noted which shall conform to A.A.S.H.T.O. M-154.
- All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with A.A.S.H.T.O. M-232.
- All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with A.A.S.H.T.O. M-151 and A.S.T.M. A-395 Galvanized rail shall not be painted.
- Railing shall be in accordance with Section 505 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per linear foot for STEEL RAILING, TYPE T-1.
- All field drilled holes shall be coated with an approved zinc rich paint before erection.
- The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.00 Type B or place 1/2" fabric bearing pad between the post and concrete.
- The 1/2" high strength bolts used to connect the 6x4x1/2 angles to the post shall be tightened in accordance with Article 307.04 (g)(3) of the Standard Specifications. The 1" high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/2 turn. The 3/8" cap screws in bottom of posts shall be tightened to a snug fit only.



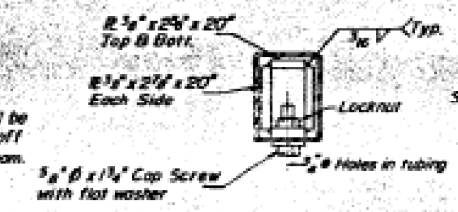
SECTION A-A



SECTION AT RAIL POST

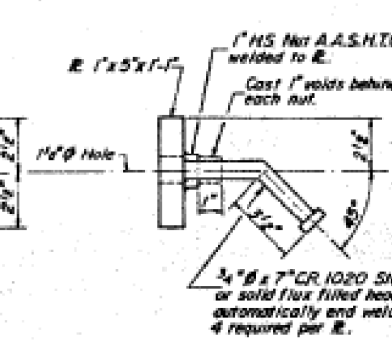


END OF RAIL DETAILS

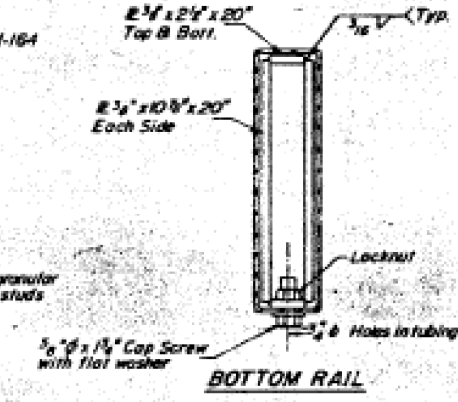


TOP RAIL

BOTTOM ANCHOR DEVICE

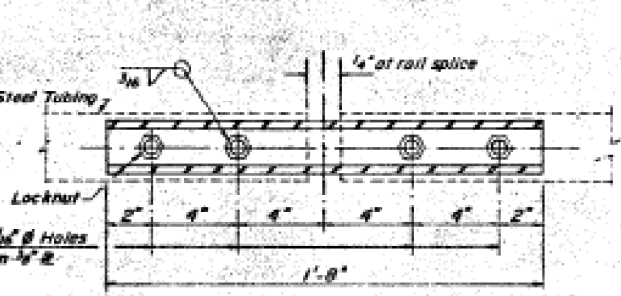


TOP ANCHOR DEVICE



BOTTOM RAIL

SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE R. TYPICAL

CURB & RAIL BILL OF MATERIAL

Bar No.	Size	Length	Shape
1	4	#6	32'-9"
Reinforcement Bars			Lbs. 200
Class X Concrete			Cu. Yds. 4.1
Steel Railing, Type T-1			Lin. Ft. 127

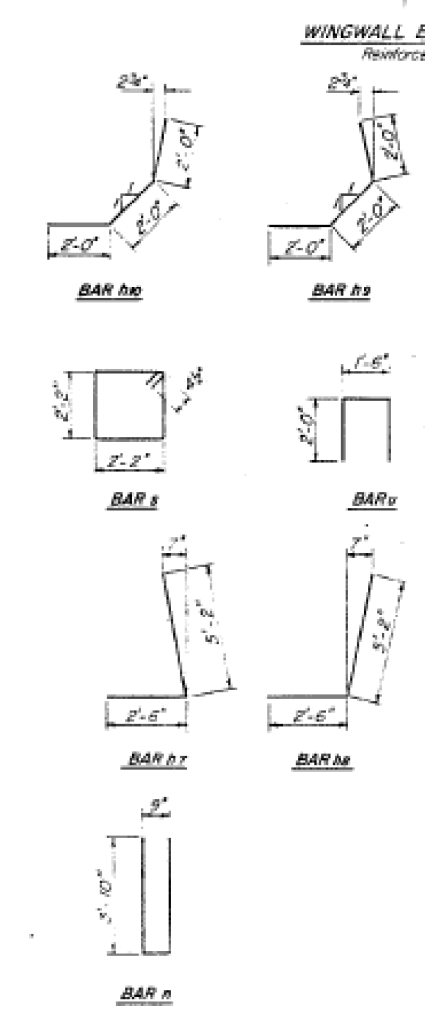
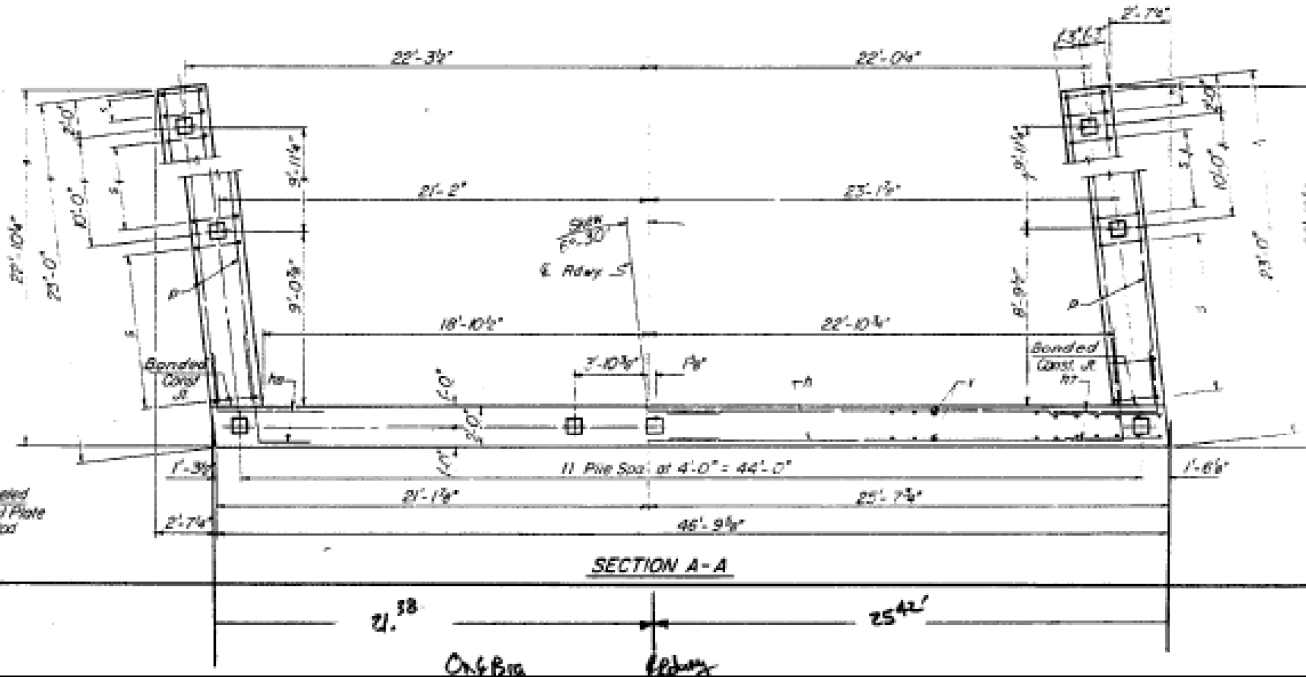
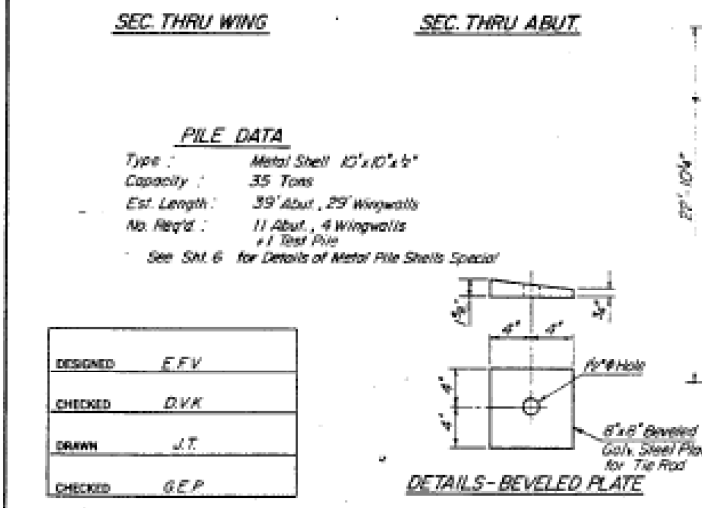
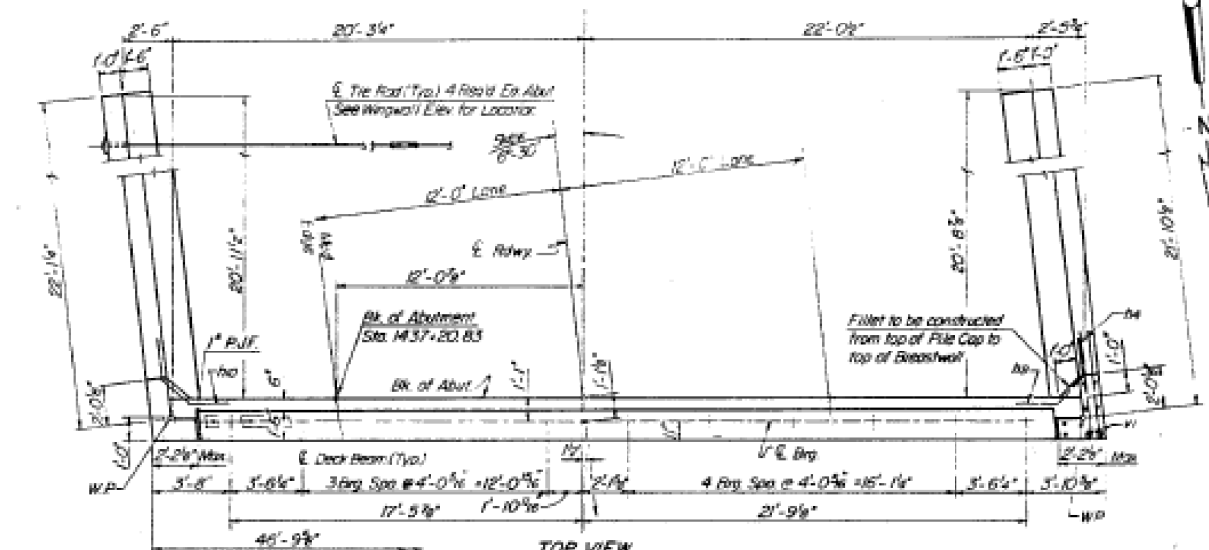
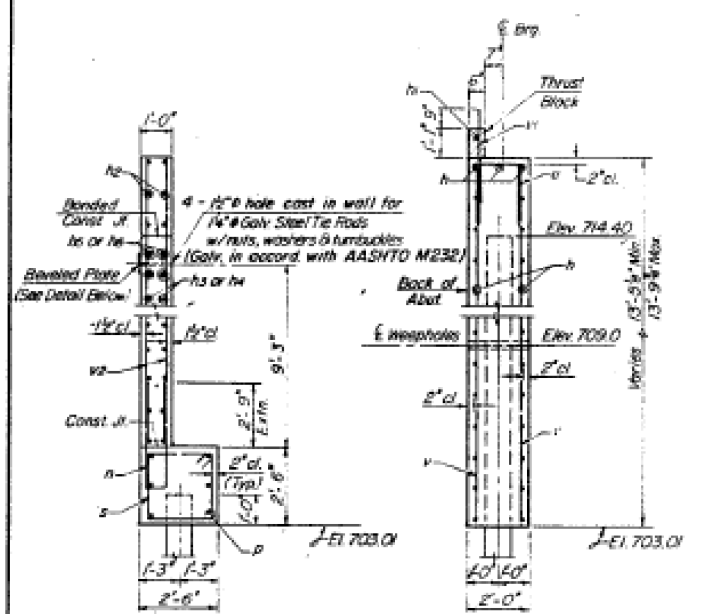
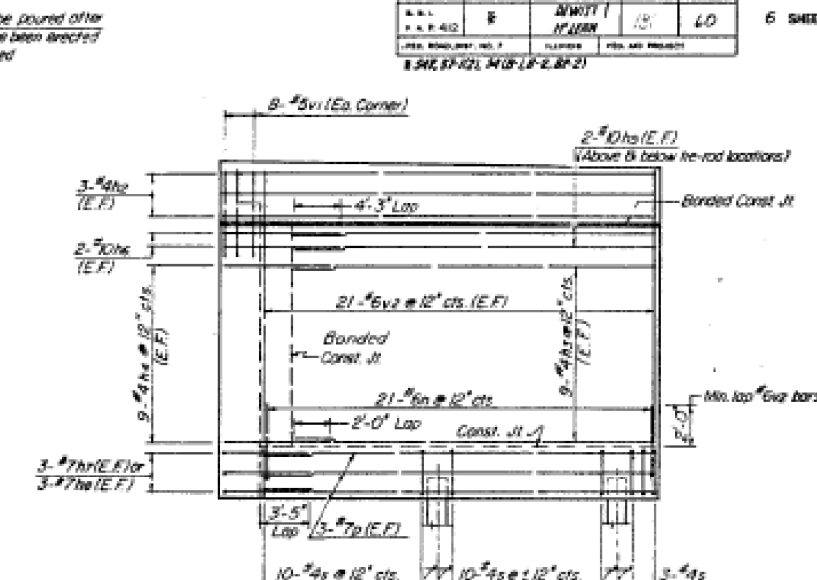
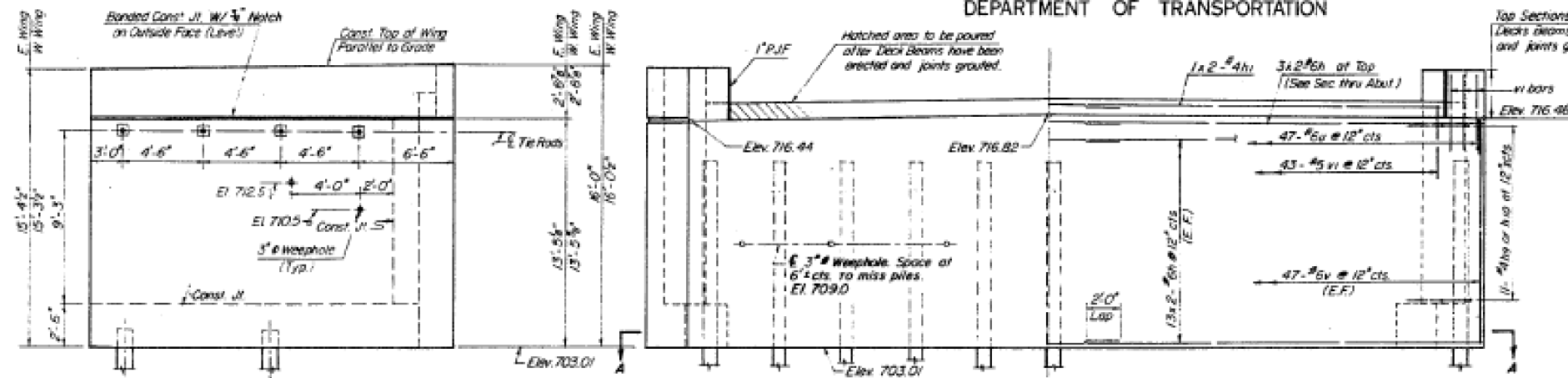
TYPE T-1
STEEL RAILING
FAP. 412 (US. RTE. 51) OVER
TRIB. OF LONG POINT CREEK
DEWITT COUNTY
STA. 1437+53.04

DESIGNED	EFY
CHECKED	DKK
DRAWN	T.D.
CHECKED	GEP

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 412	E	DEWITT	15	10
6 SHEETS				



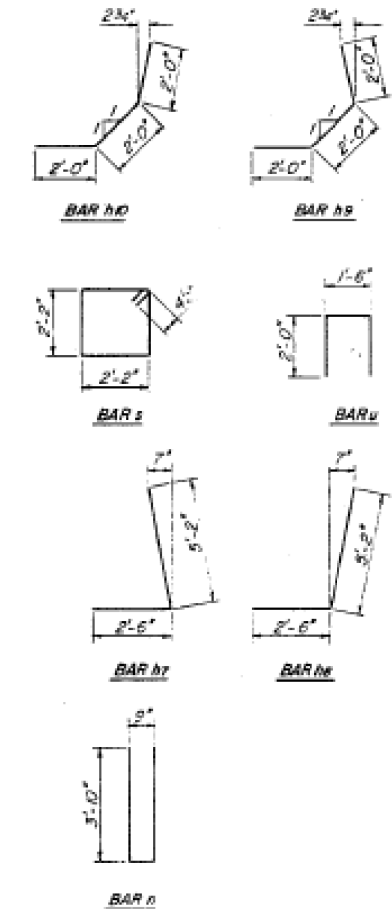
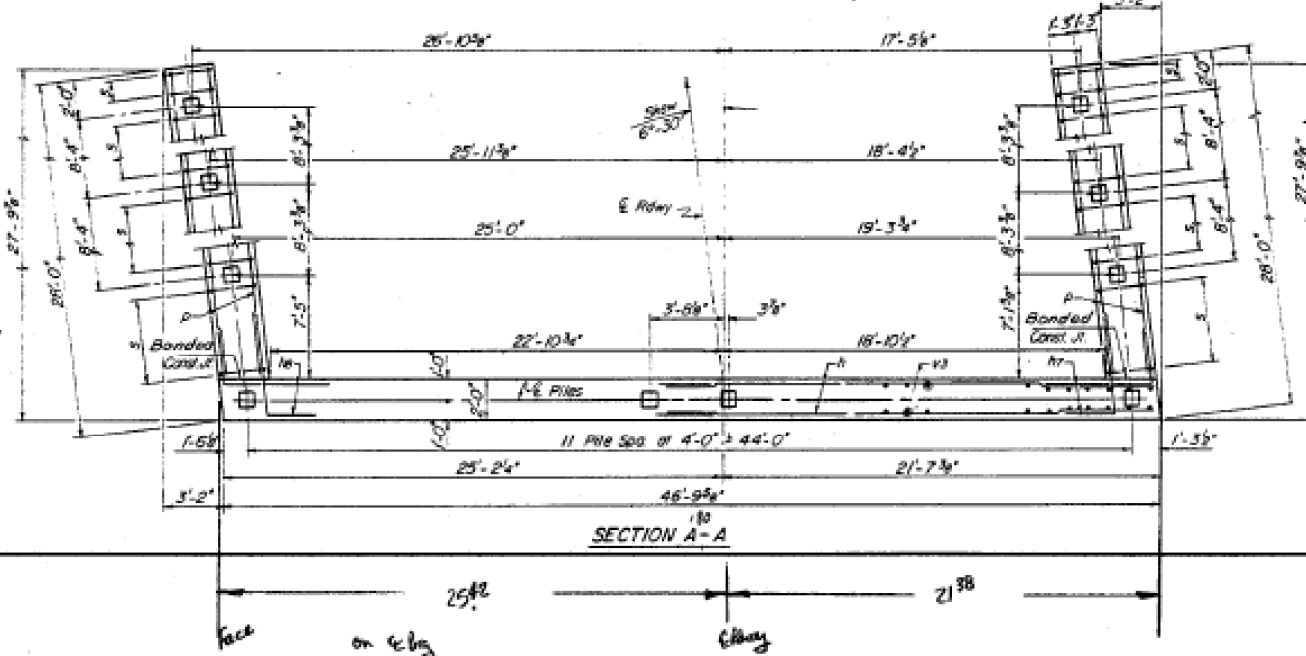
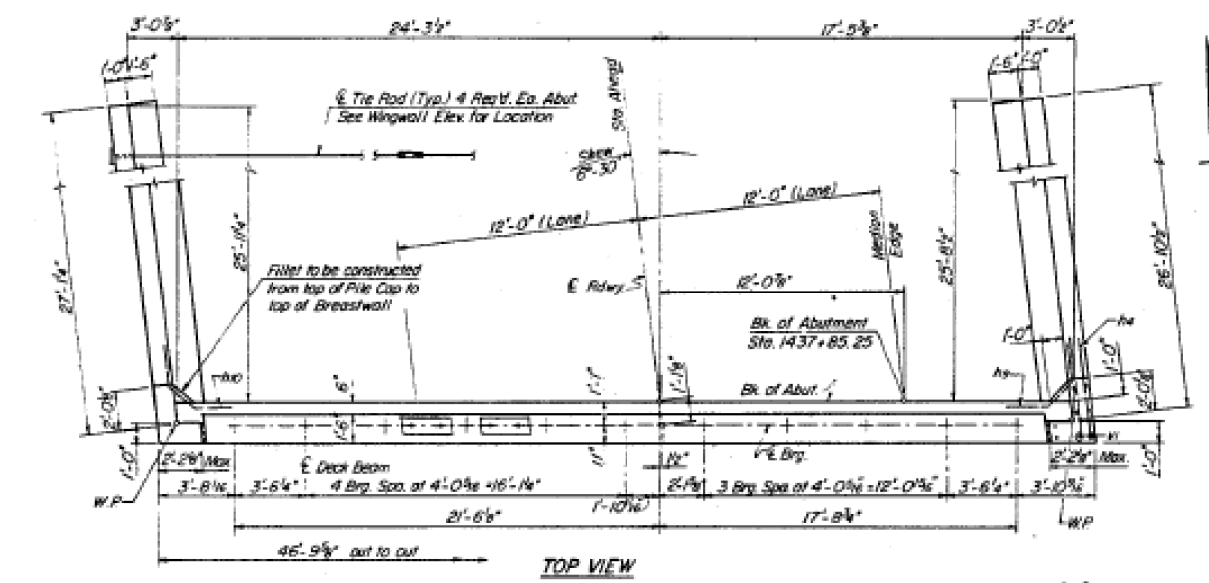
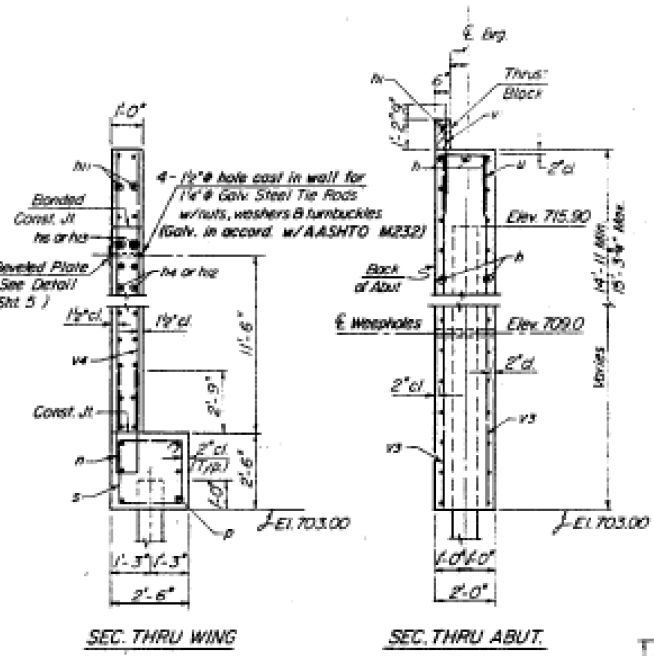
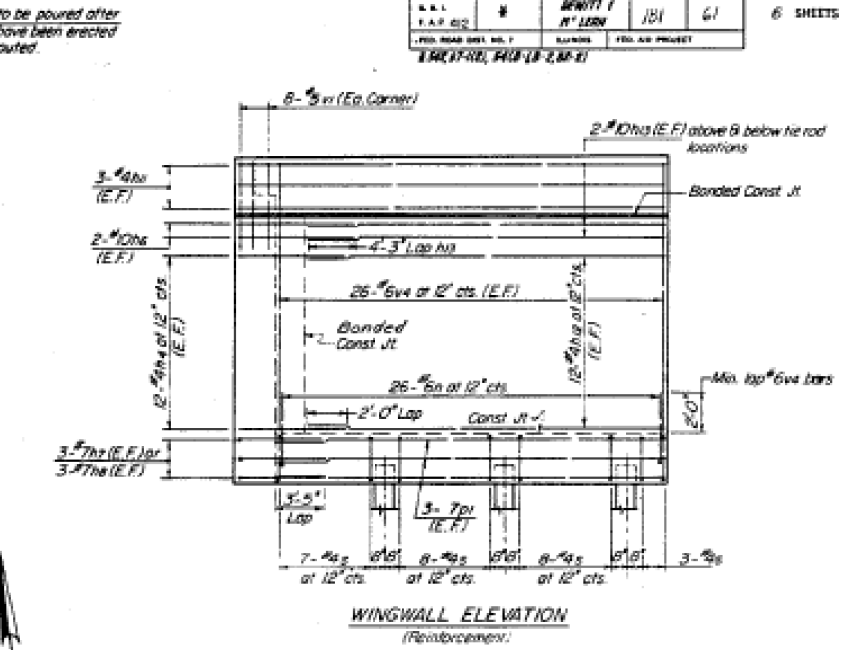
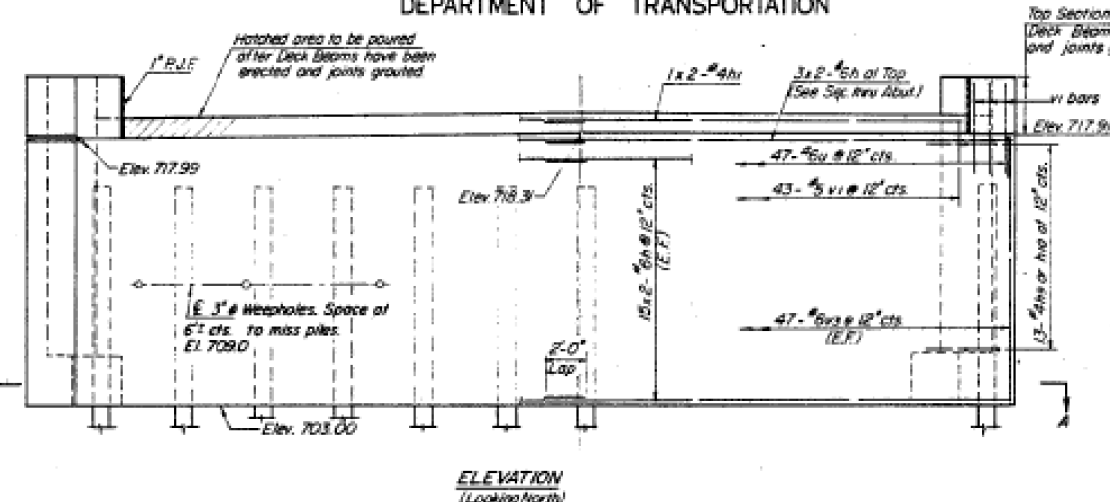
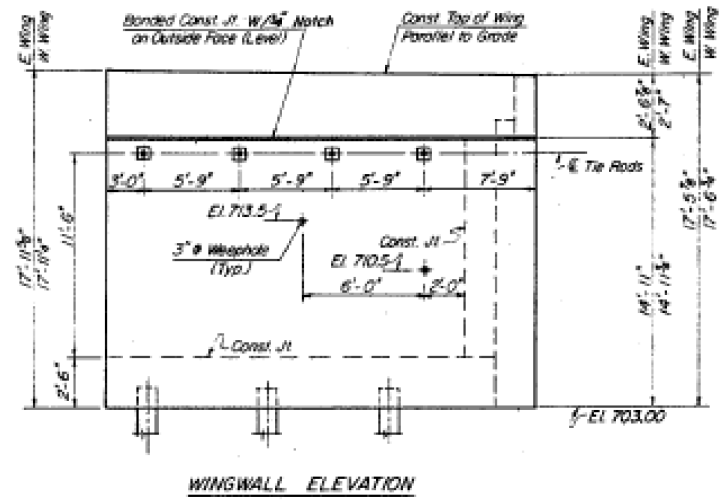
SOUTH ABUTMENT
F.A.P. 412 (U.S. RTE. 51) OVER
TRIB. OF LONG POINT CREEK
DEWITT COUNTY
STATION 1437+53.04

c:\pwworkspace\jayed\1\2020047-70606-015-E-Sub.dwg

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 412	548-3, 548-2	DEWITT	89	70
SHEET NO. 6				



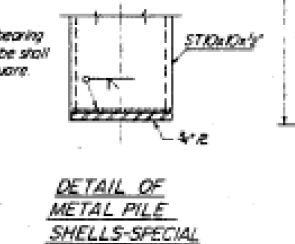
BILL OF MATERIALS

BAR NO	NO	SIZE	LENGTH	SHAPE
n	66	#6	24'-3"	
ni	2	#4	23'-3"	
na	48	#4	5'-0"	
nb	8	#10	7'-3"	
nc	6	#7	7'-8"	
nd	6	#7	7'-8"	
ne	13	#4	6'-0"	
nf	13	#4	6'-0"	
ng	12	#4	27'-9"	
nh	48	#4	24'-8"	
ni	8	#10	24'-8"	
nj	52	#6	8'-5"	
nk	12	#7	25'-6"	
nl	52	#4	9'-5"	
nm	47	#6	5'-6"	
nn	59	#3	4'-5"	
no	94	#6	14'-8"	
np	104	#6	14'-9"	

Class X Concrete	Cu Yds.	96.1
Reinforcement Bars	Lbs.	11,640
Structural Steel	Lbs.	1050
Metal Pile Shells - Special	Lin. Ft.	659
Test Pile Metal Shell - Special	Each	1

PILE DATA
Type: Metal Shell 10x10x1/2"
Capacity: 35 Tons
Est. Length: 43' Abut., 3' Wingwalls
No. Req'd.: 11 Abut., 6 Wingwalls
+ 1 Test Pile

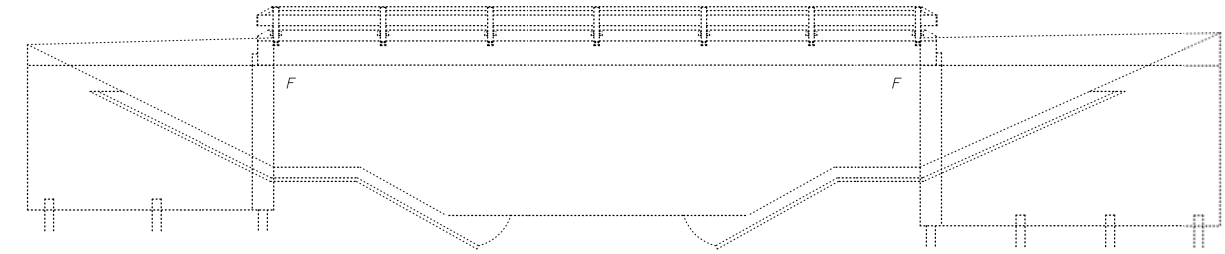
DESIGNED	EFV
CHECKED	DVK
DRAWN	JT
CHECKED	G.P.



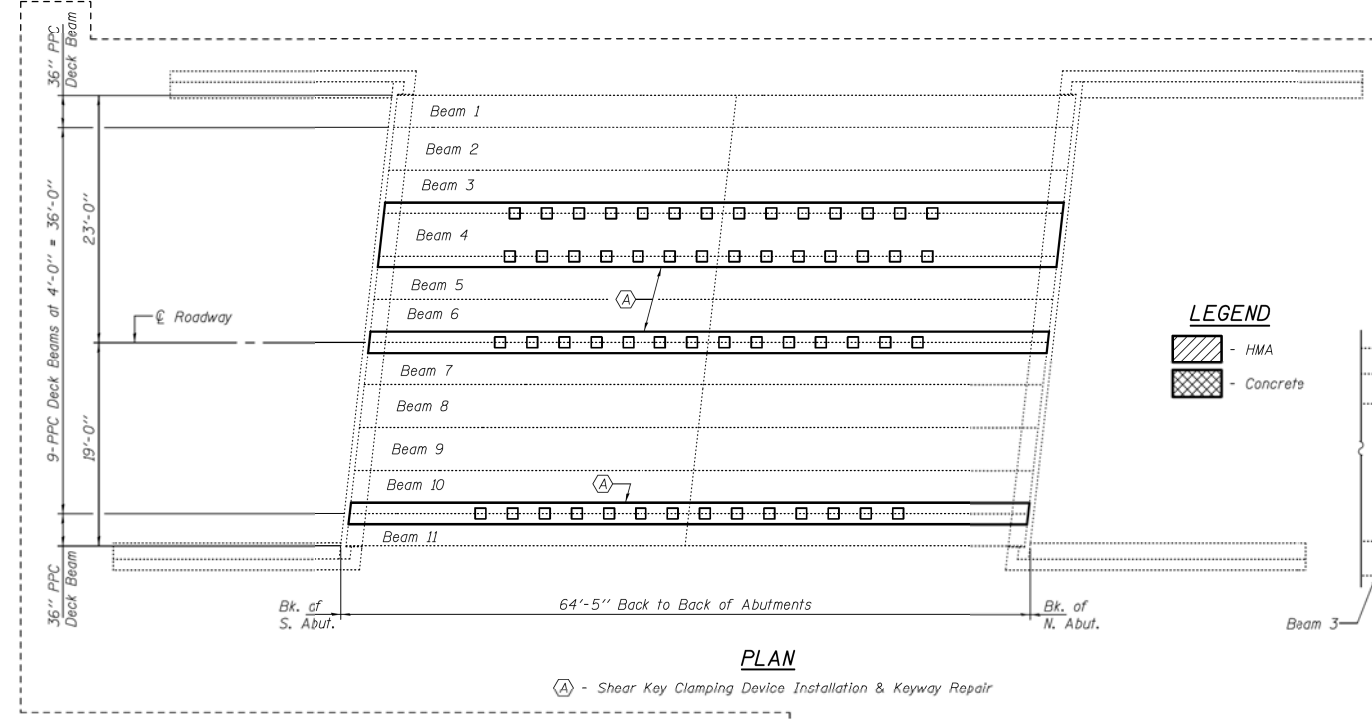
NORTH ABUTMENT
F.A.P. 412 (U.S. RTE. 51) OVER
TRIB. OF LONG-POINT CREEK
DEWITT COUNTY
STATION 1437+53.04

c:\pwwork\jayed\10220047-70606-016-Ex-BridgePlans.dgn

FOR INFORMATION ONLY



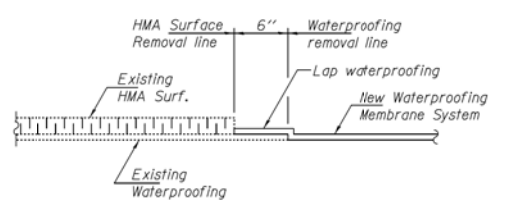
ELEVATION



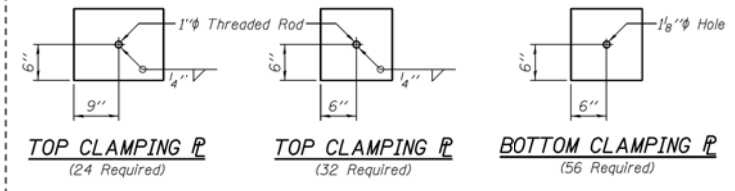
PLAN

(A) - Shear Key Clamping Device Installation & Keyway Repair

DRAFT
DATE: 09-13-2011



WATERPROOFING TREATMENT

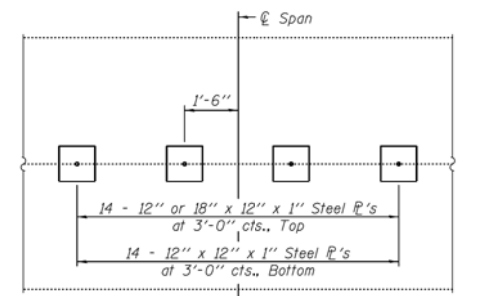


SHEAR KEY CLAMPING CONSTRUCTION SEQUENCE

1. Install 14 shear key clamping devices (7 on each side of ℓ span).
2. Install backer rod in open joint.
3. Place concrete and cure.

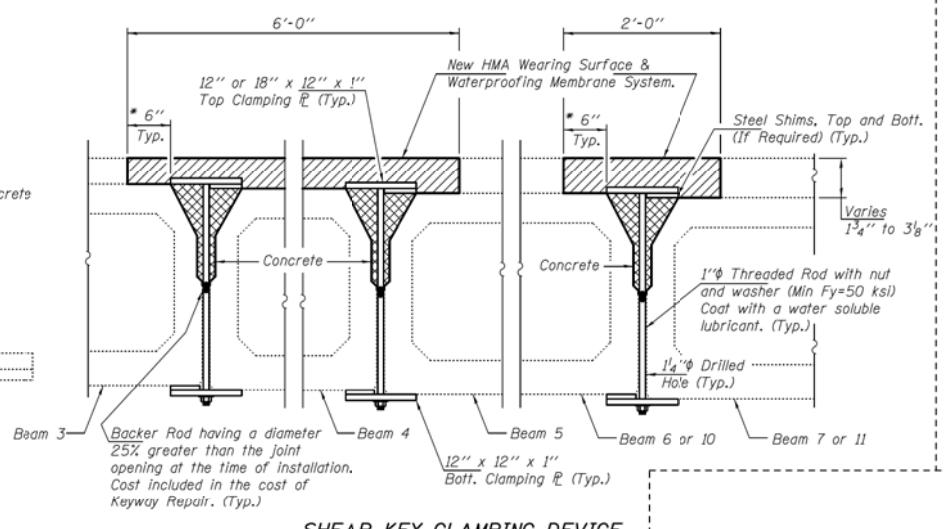
GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
The shear key clamping devices shall be galvanized after shop fabrication according to AASHTO M111 and ASTM 385.



PLAN

* Existing waterproofing to remain. Lap new waterproofing membrane system with existing waterproofing.



SHEAR KEY CLAMPING DEVICE

Cost included with Keyway Repair (56 Required)

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Hot-Mix Asphalt Surface Course, Mix "D", N50	Tons	12.4
HMA Surface Removal (Deck)	Sq. Yd.	71
Waterproofing Membrane System	Sq. Yd.	71
PC Mortar Fairing Course	Foot	254
Keyway Repair	Foot	254

DESIGNED -	EXAMINED -	DATE - MARCH 14, 2011
CHECKED -	PASSED -	REVISED [1] - 08/12/2011 ADP
DRAWN - Kyle M. Steffen	PASSED -	REVISED [2] - 09/13/2011 VW
CHECKED -	PASSED -	

NOTE: THESE PLANS ARE IN THE DRAFT STAGE & AS SUCH, ARE ONLY INTENDED TO OUTLINE THE SCOPE OF THE WORK REQUIRED. DIMENSIONS, DETAILS & QUANTITIES ARE SUBJECT TO CHANGE.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN, ELEVATION & REPAIR DETAILS
SN 020-0047

F.A.P. RTE. 322	SECTION Postage Mitigation FY2011-2	COUNTY DEWITT	TOTAL SHEETS 16	SHEET NO. 4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70695	

These are Draft Plans of the in-place repairs and are for information only.

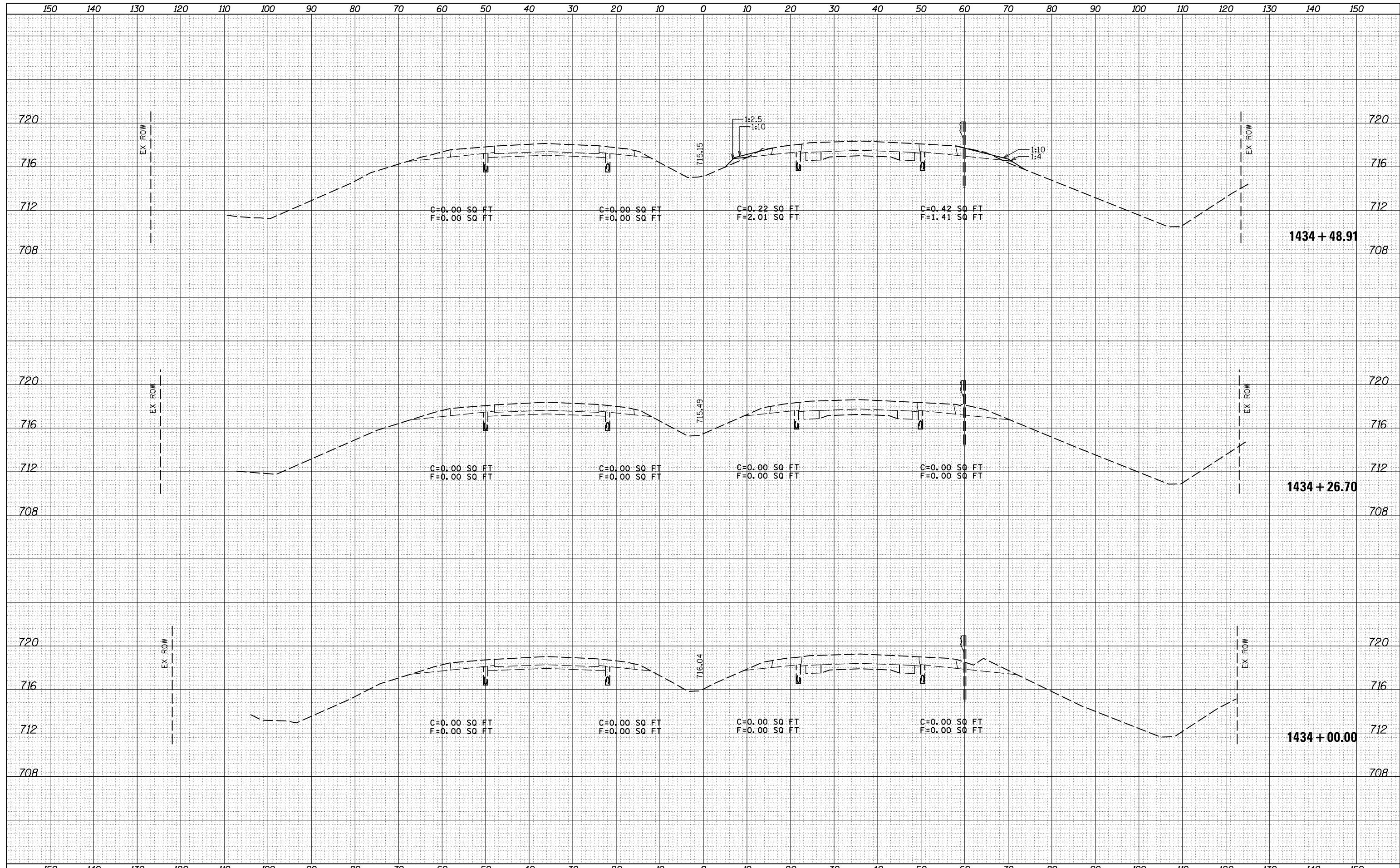
FOR INFORMATION ONLY

c:\pwwork\jayedof\jayedof\0200047-70695-017-Ex-BridgePlans.dgn

USER NAME = jayedof	DESIGNED - CMF	REVISED -
PLOT SCALE = 0:2.0000 '1" / 1"	CHECKED - TMM	REVISED -
PLOT DATE = 1/31/2014	DRAWN - JLM	REVISED -
	CHECKED - TMM	REVISED -

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

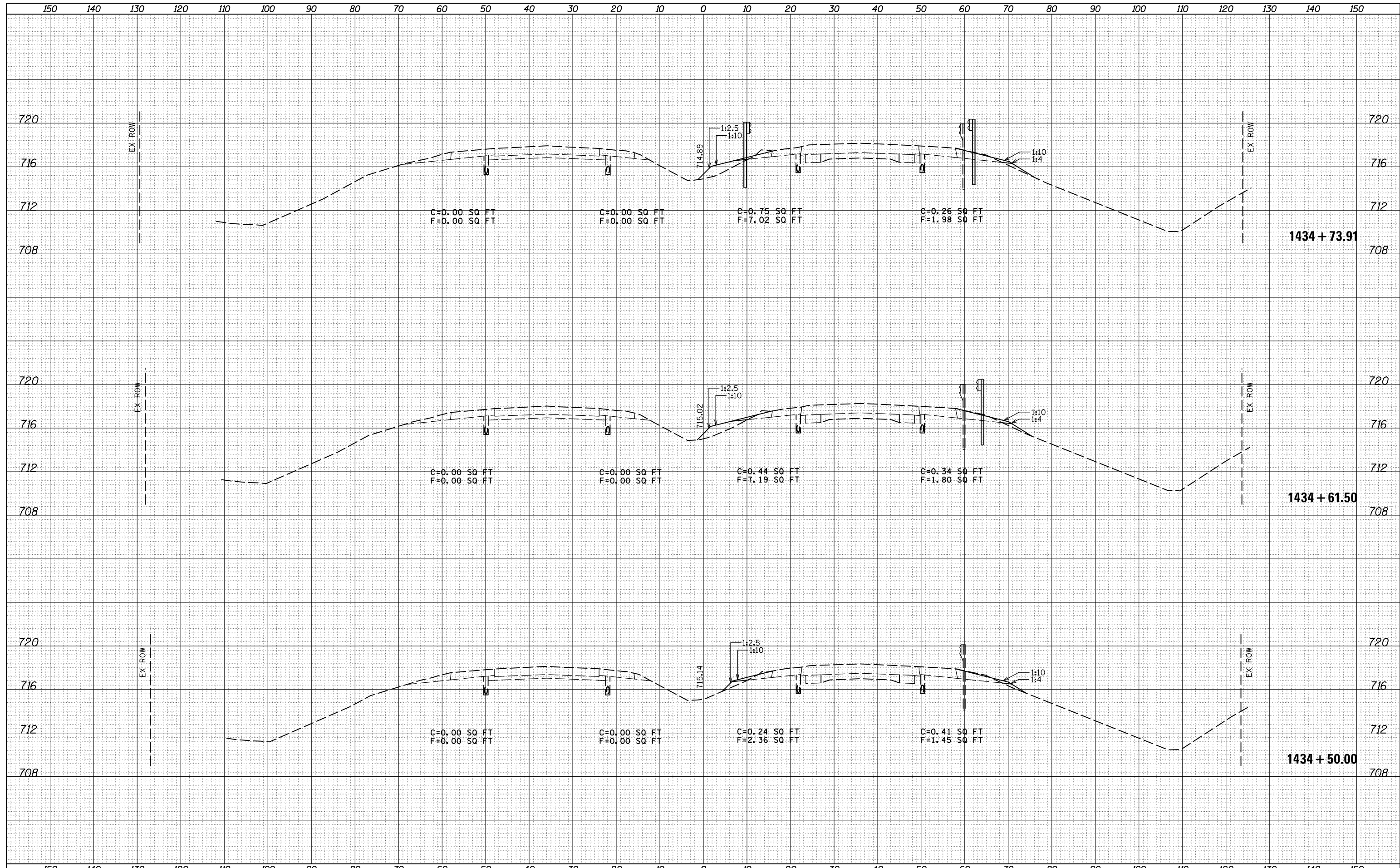
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 51 CROSS SECTION SHEETS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pw_work\pwidot\jaymedf\d0291813\0570606-shs-XS-Safety.dgn	DRAWN -	REVISED -	322					54B-3, 54B-2	DEWITT	89	72	
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 70606									
MODELNAME	DATE -	REVISED -	SCALE:		SHEET 1	OF 18 SHEETS	STA. 1434+00.00 TO STA. 1434+48.91	ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

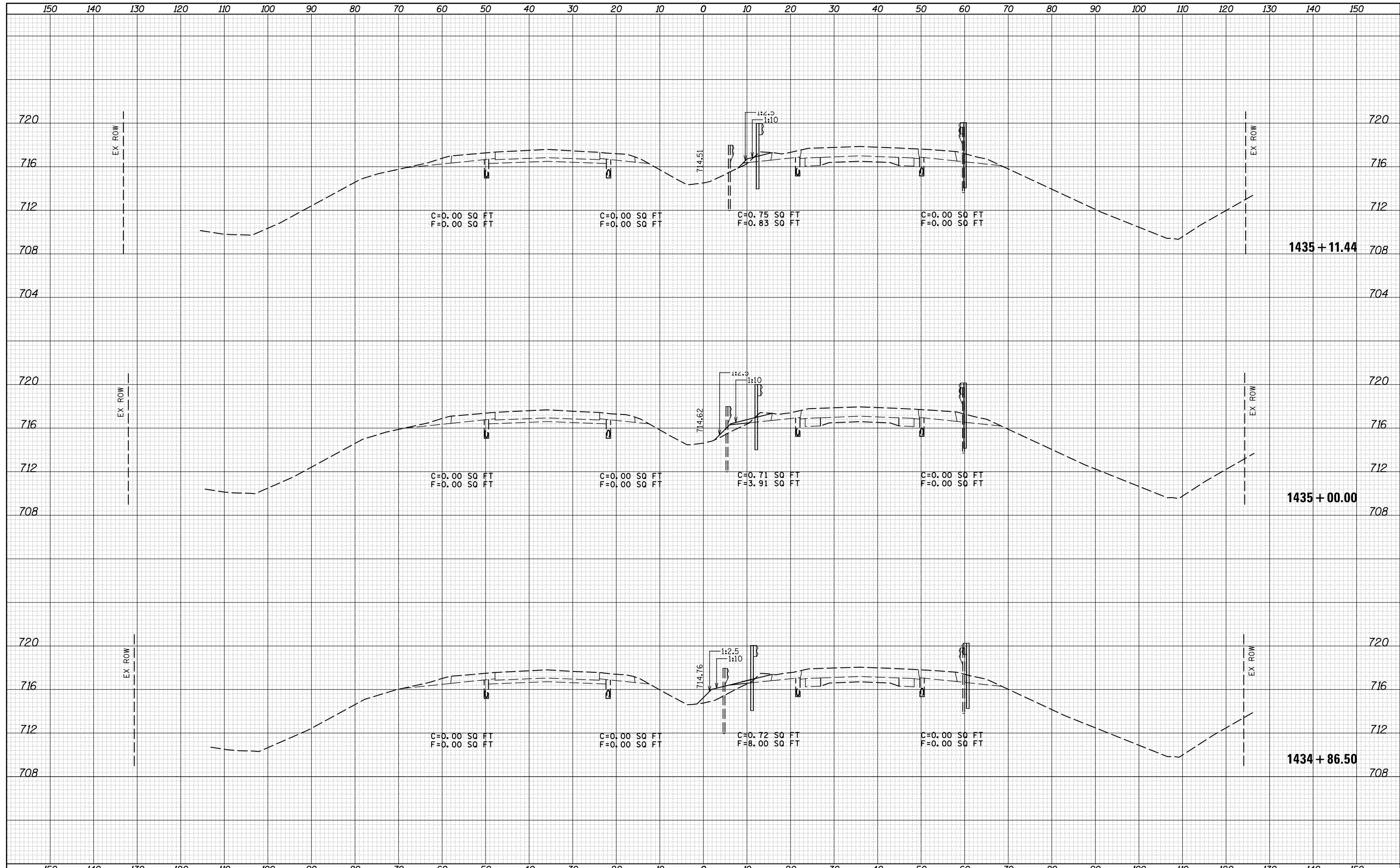
DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	



FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 51 CROSS SECTION SHEETS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cs:\pw_work\pwwidot\jaymedf\d0291813\0570606-shd-XS-Safety.dgn	DRAWN -	REVISED -	322					54B-3, 54B-2	DEWITT	89	73	
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 70606									
MODELNAME	DATE -	REVISED -	ILLINOIS FED. AID PROJECT									
				SCALE:	SHEET 2 OF 18 SHEETS			STA. 1434+50.00 TO STA. 1434+73.91				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

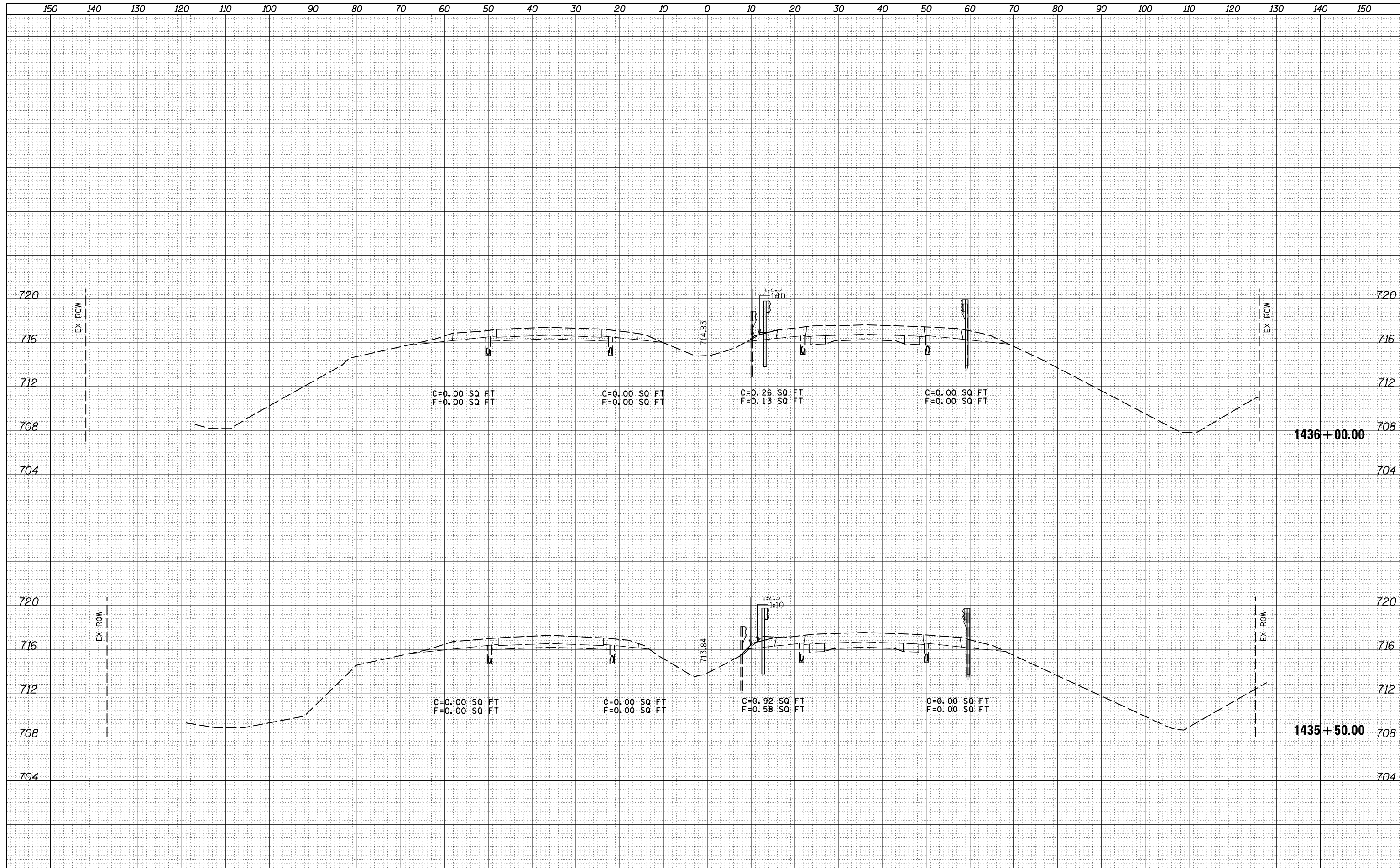
DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 51 CROSS SECTION SHEETS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cs:\pw_work\pwidot\jaymedf\d0291813\0570606-shd-XS-Safety.dgn		DRAWN -	REVISED -					322	54B-3, 54B-2	DEWITT	89	74
		CHECKED -	REVISED -					CONTRACT NO. 70606				
MODELNAME		DATE -	REVISED -					SCALE:	SHEET 3	OF 18	SHEETS	STA. 1434+86.50

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -
c:\pw_work\pwwork\jaymedf\d0291813\0570606-shd-XS-Safety.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
MODELNAME		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

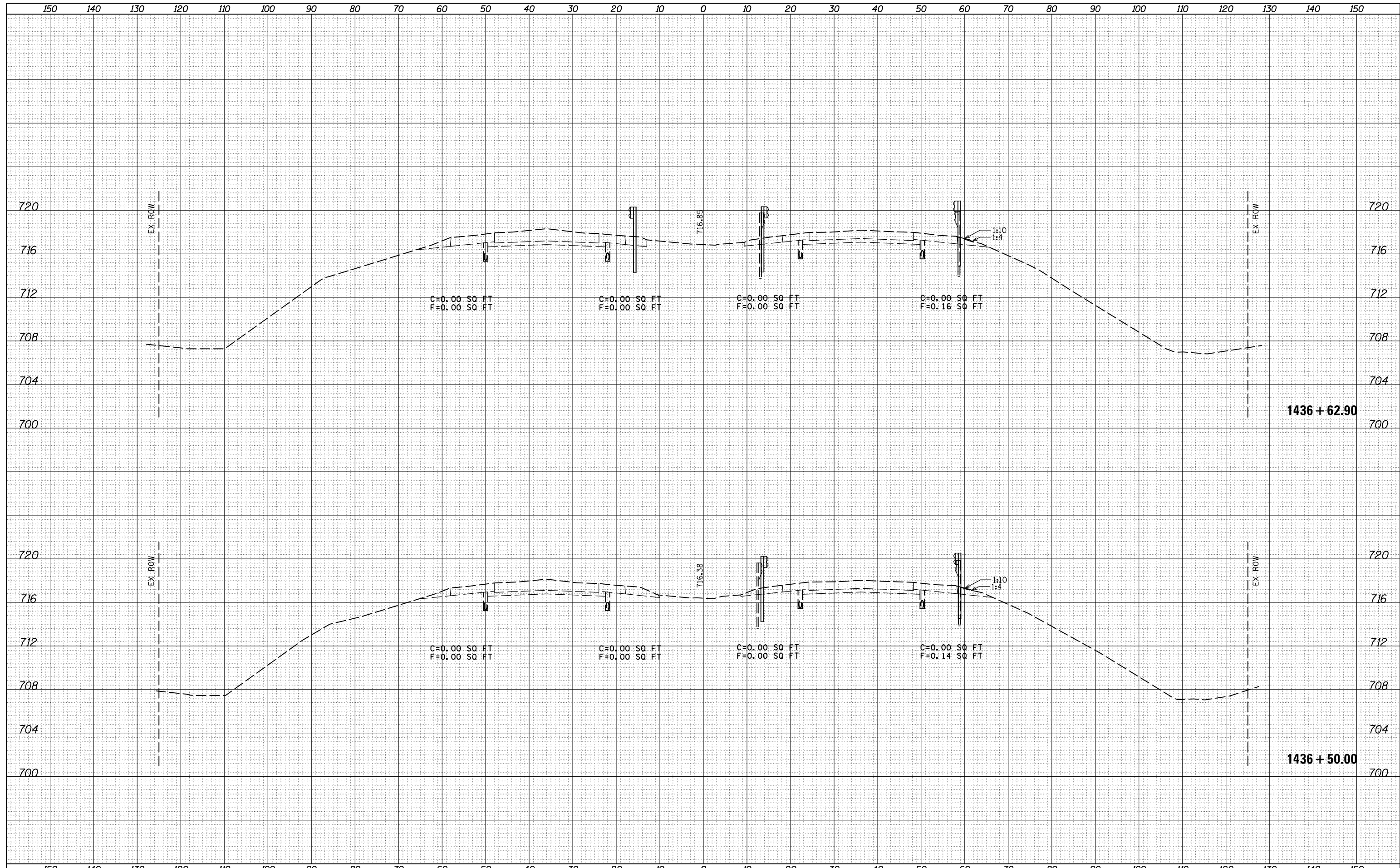
US 51 CROSS SECTION SHEETS

SCALE: SHEET 4 OF 18 SHEETS STA. 1435+50.00 TO STA. 1436+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	75
			CONTRACT NO. 70606	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	



FILE NAME =
 c:\pw_work\pwidot\jayedf\d0291813\0570606-shd-XS-Safety.dgn
 MODELNAME

USER NAME = jayedf
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

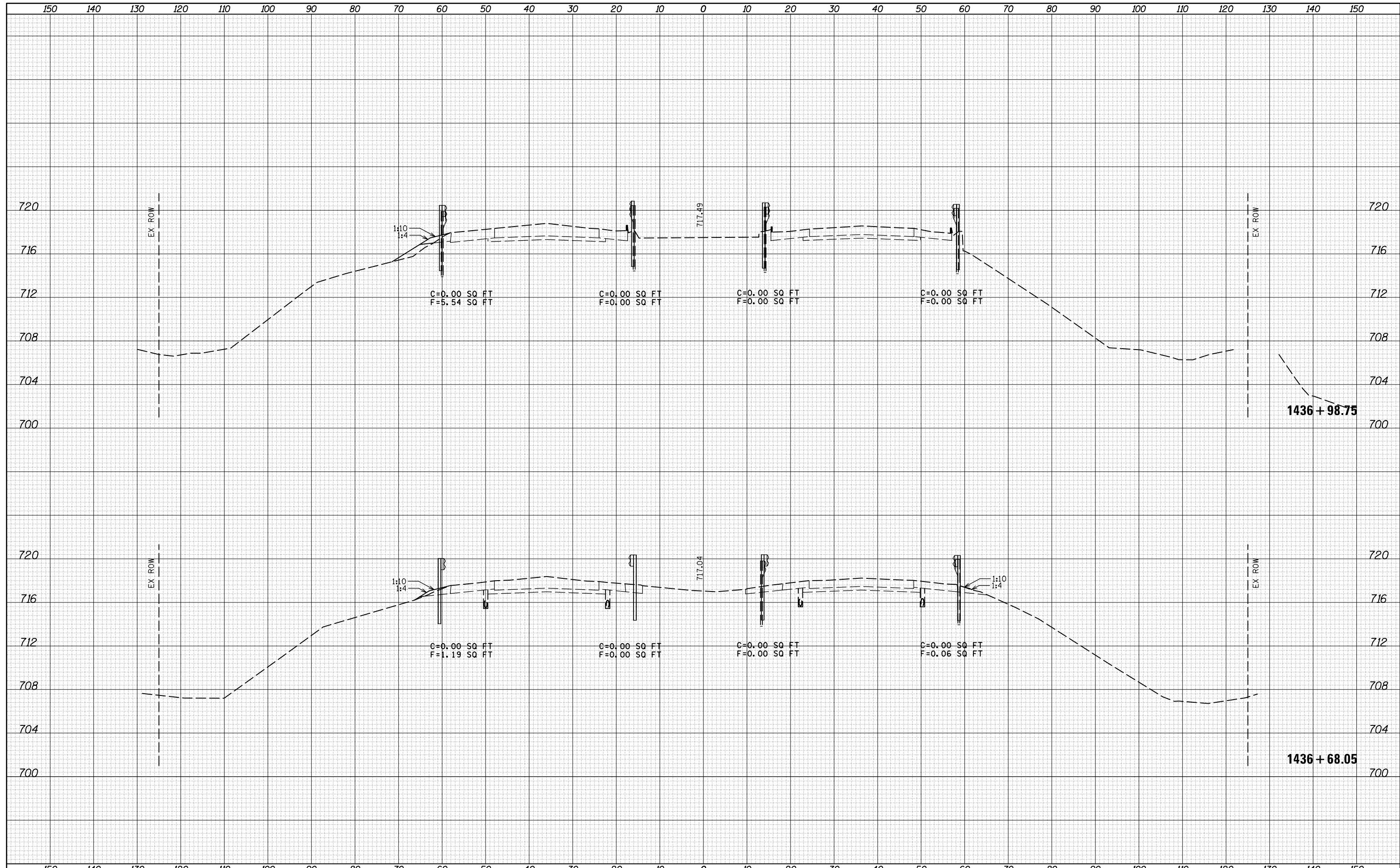
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

US 51 CROSS SECTION SHEETS
 SCALE: SHEET 5 OF 18 SHEETS STA. 1436+50.00 TO STA. 1436+62.90

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	76
CONTRACT NO. 70606			ILLINOIS FED. AID PROJECT	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

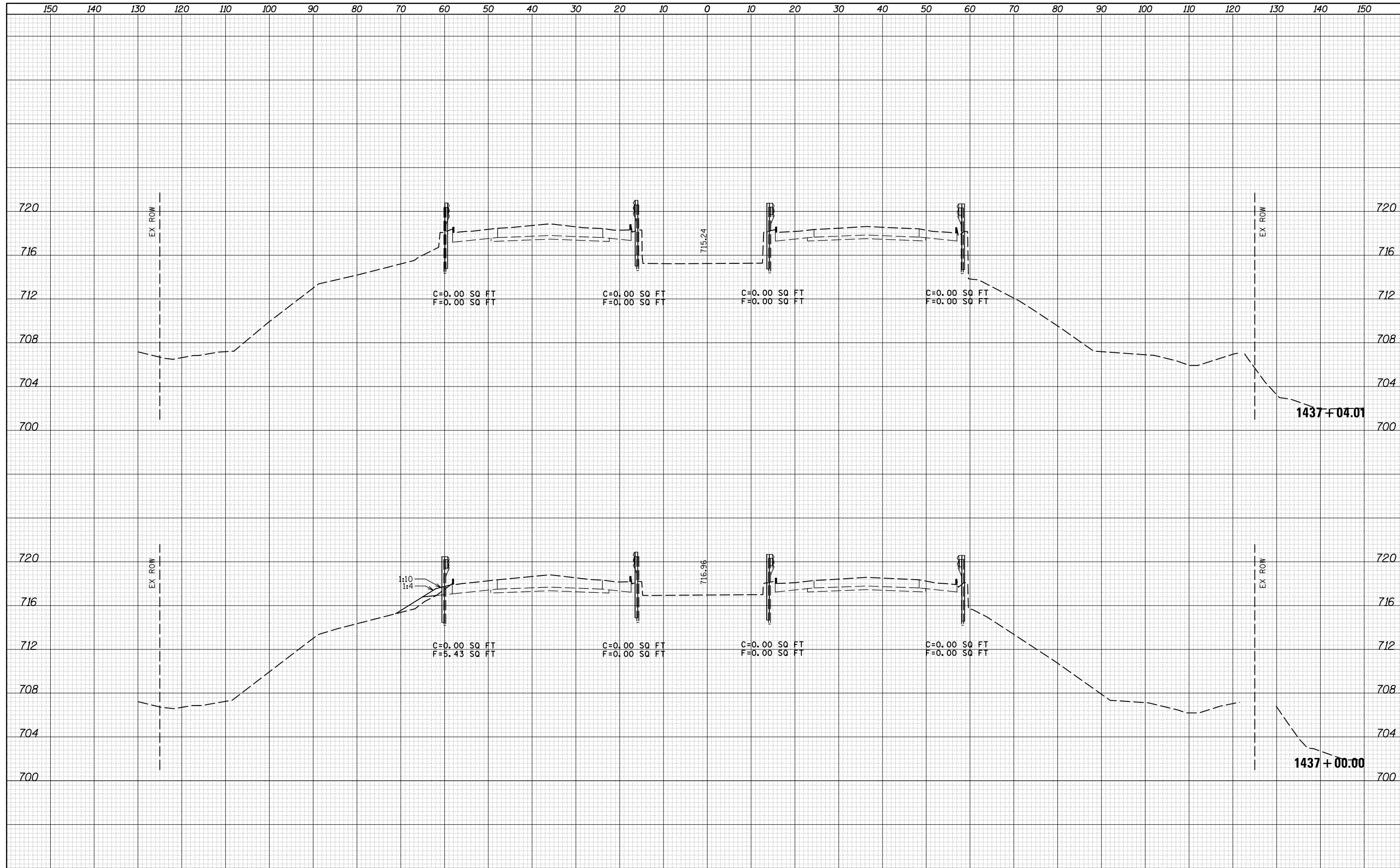
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 51 CROSS SECTION SHEETS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pw_work\pwidot\jaymedf\d0291813\0570606-shd-XS-Safety.dgn	DRAWN -	REVISED -	322					54B-3, 54B-2	DEWITT	89	77	
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 70606									
MODELNAME	DATE -	REVISED -	SCALE:		SHEET 6	OF 18	SHEETS	STA. 1436+68.05	TO STA. 1436+98.75	ILLINOIS FED. AID PROJECT		

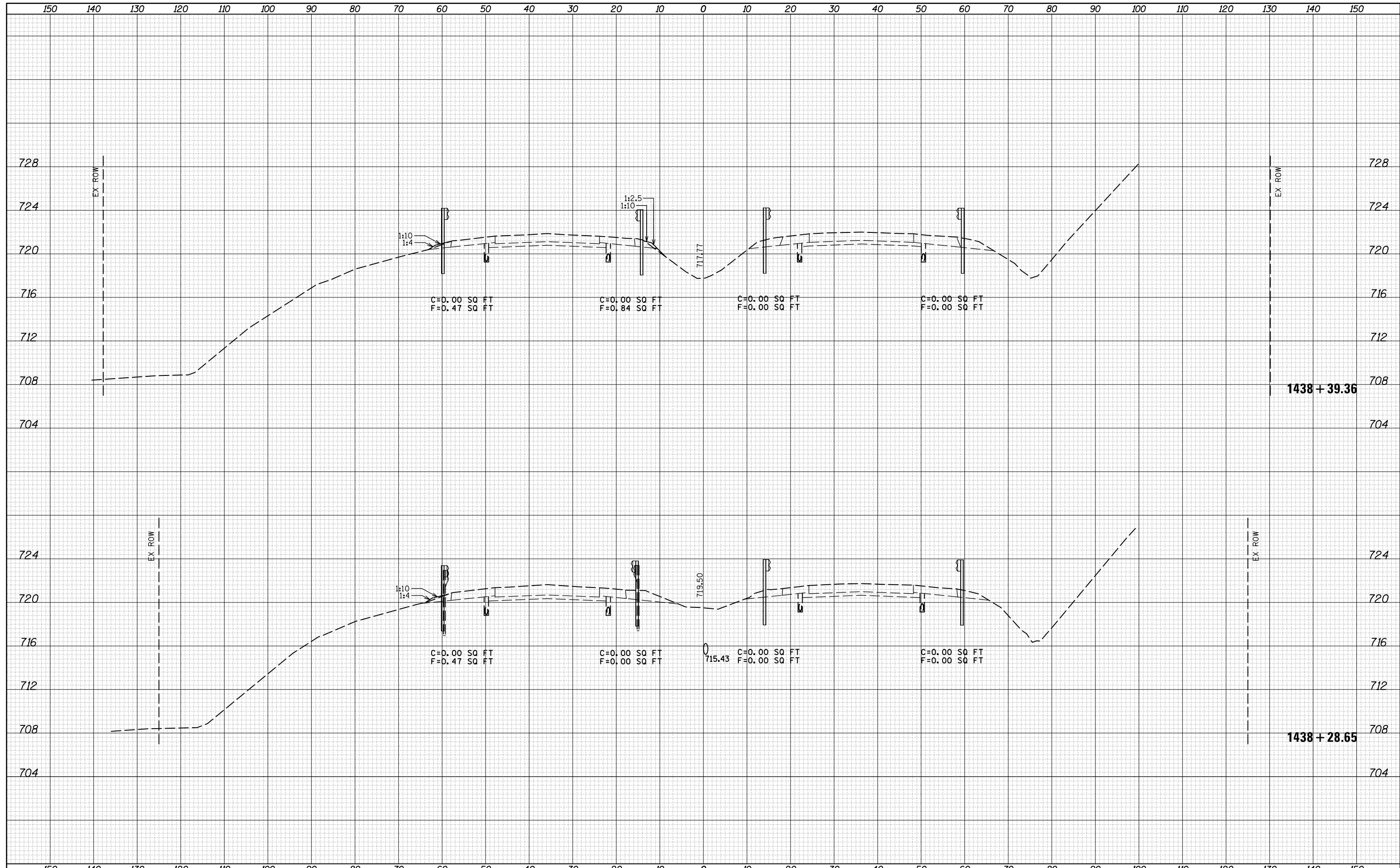
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



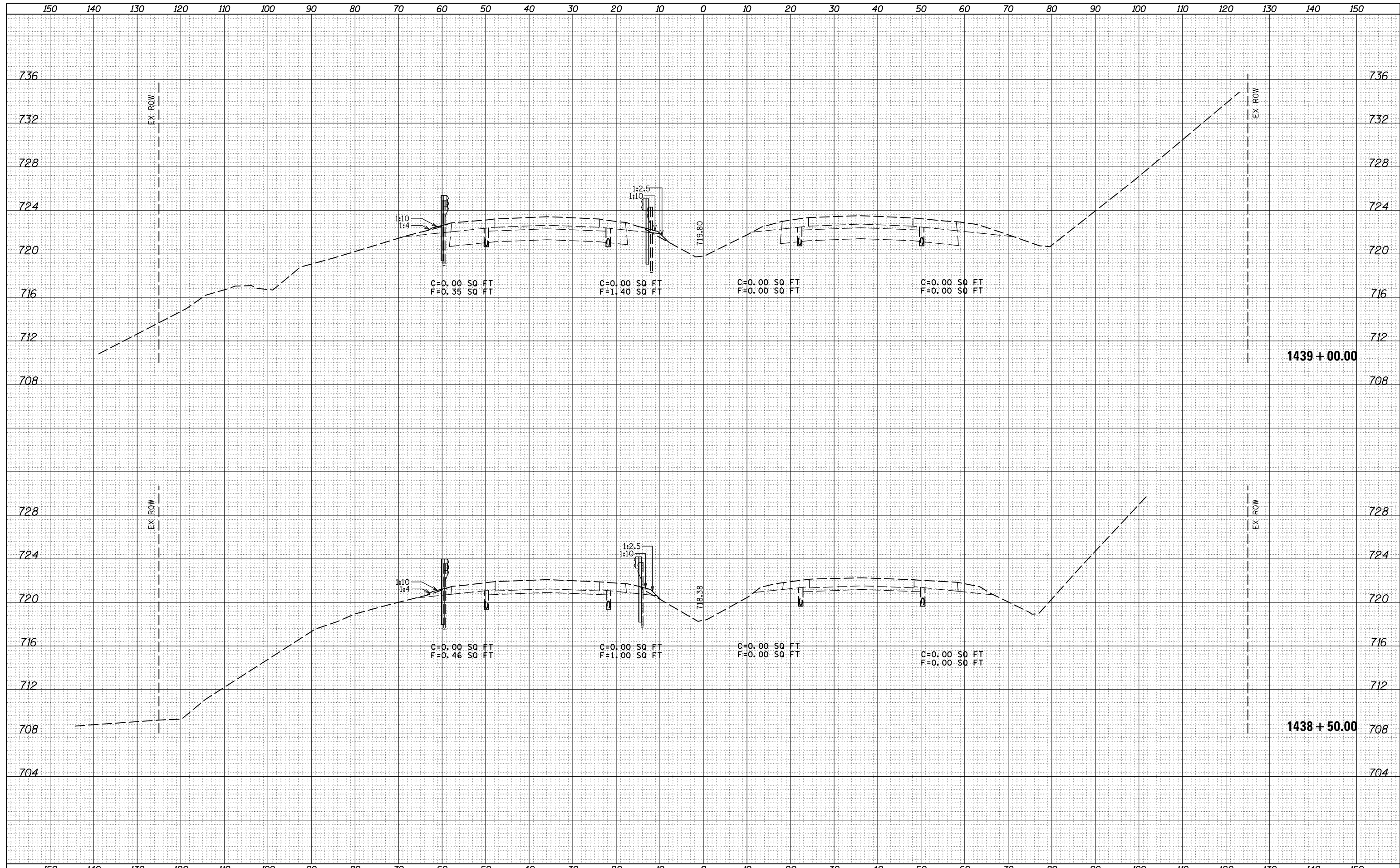
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

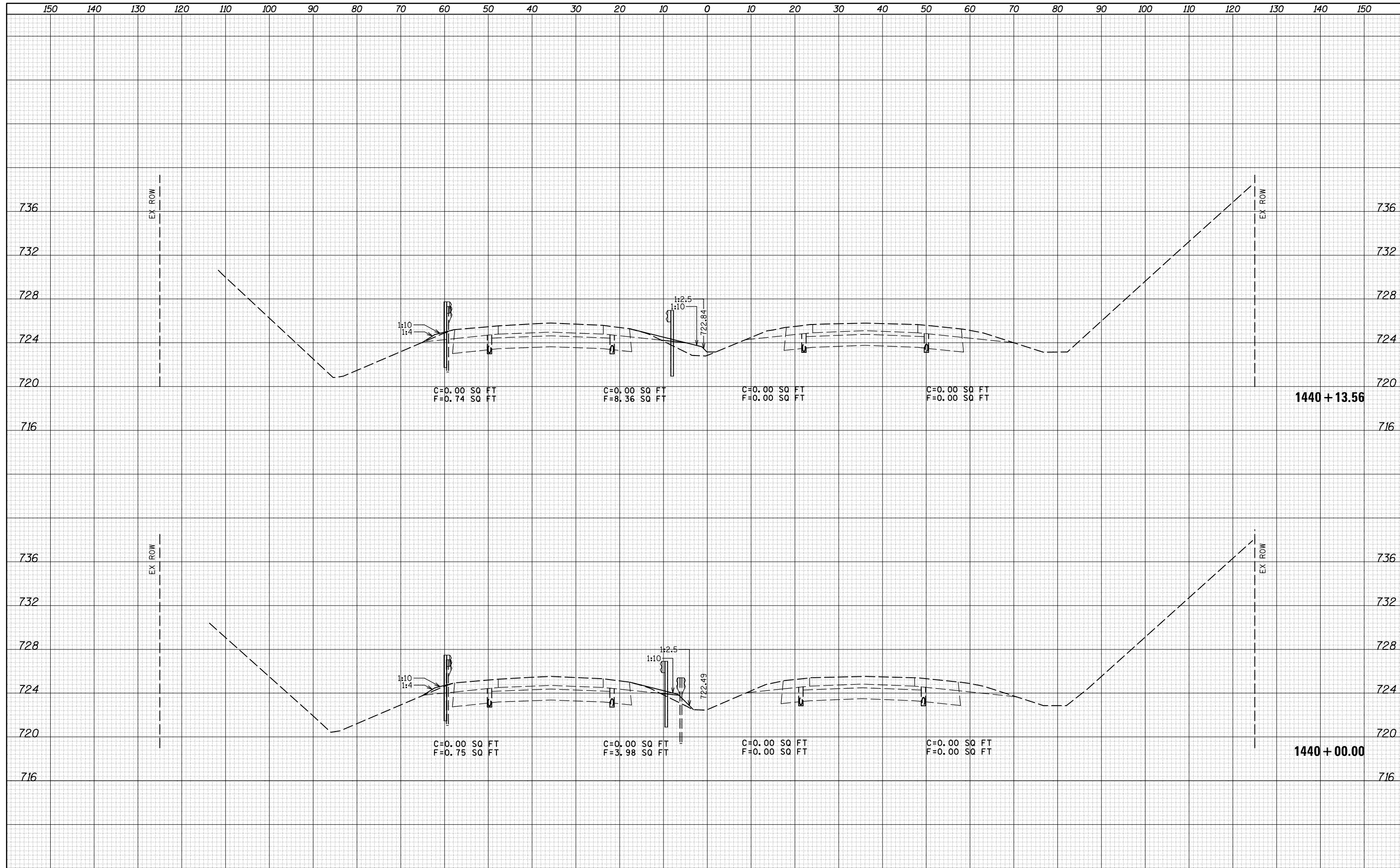
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 51 CROSS SECTION SHEETS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\pwwork\jaymedf\d0291813\0570606-shd-XS-Safety.dgn	DRAWN -	REVISED -	322					54B-3, 54B-2	DEWITT	89	82	
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 70606									
MODELNAME	DATE -	REVISED -	SCALE:		SHEET 11	OF 18	SHEETS	STA. 1438+50.00	TO STA. 1439+00.00	ILLINOIS FED. AID PROJECT		

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



FILE NAME =
 c:\pw_work\pwidot\jaymedf\d0291813\0570606-shd-XS-Safety.dgn

USER NAME = jaymedf
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

US 51 CROSS SECTION SHEETS

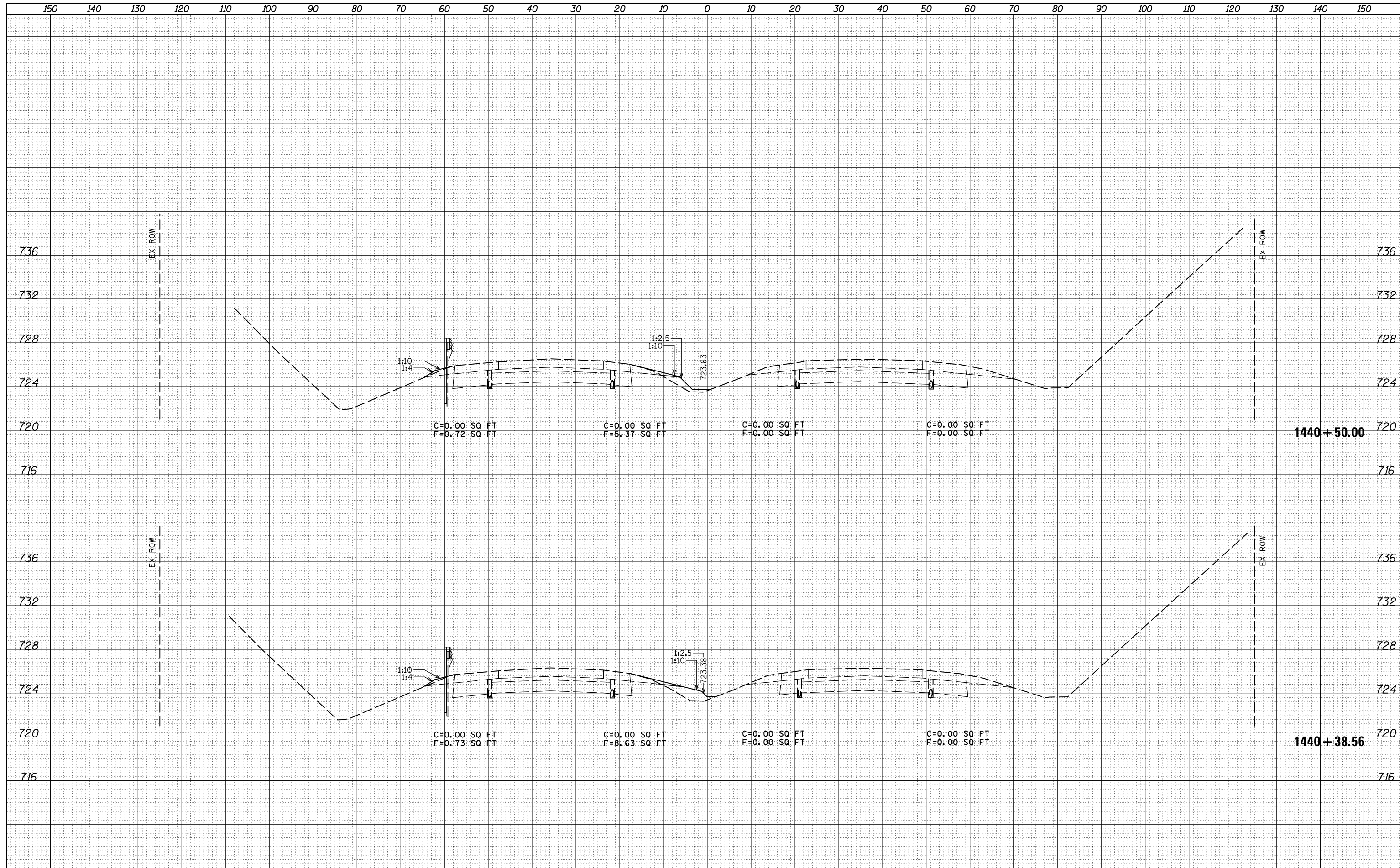
SCALE: SHEET 13 OF 18 SHEETS STA. 1440+00.00 TO STA. 1440+13.56

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	84
			CONTRACT NO. 70606	

ILLINOIS FED. AID PROJECT

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME =
 c:\pw_work\pwidot\jaymedf\d0291813\0570606-sh1-XS-Safety.dgn
 MODELNAME

USER NAME = jaymedf	DESIGNED -	REVISED -
XS-Safety.dgn	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/30/2014	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

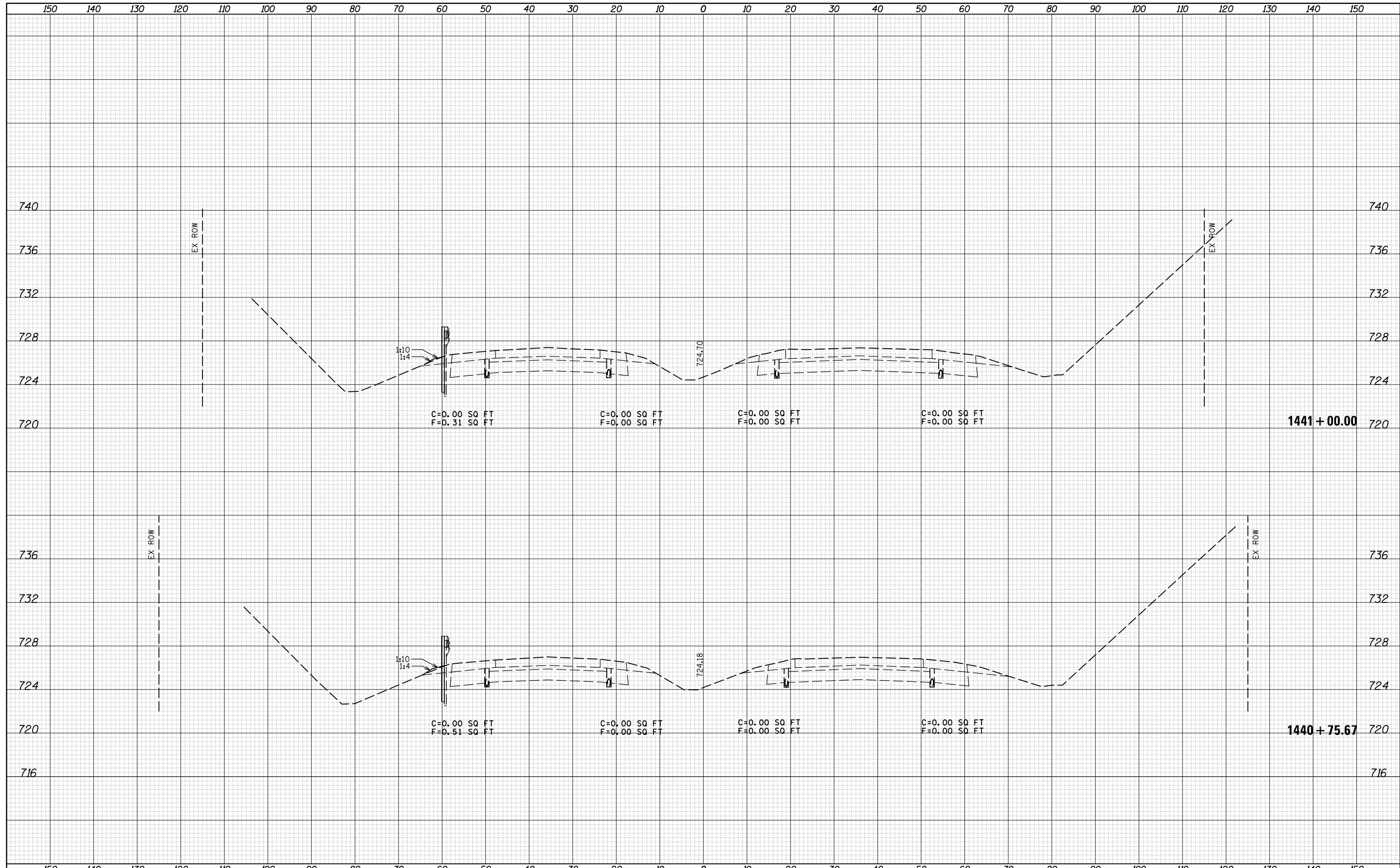
US 51 CROSS SECTION SHEETS

SCALE: SHEET 14 OF 18 SHEETS STA. 1440+38.56 TO STA. 1440+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	85
			CONTRACT NO. 70606	
ILLINOIS FED. AID PROJECT				

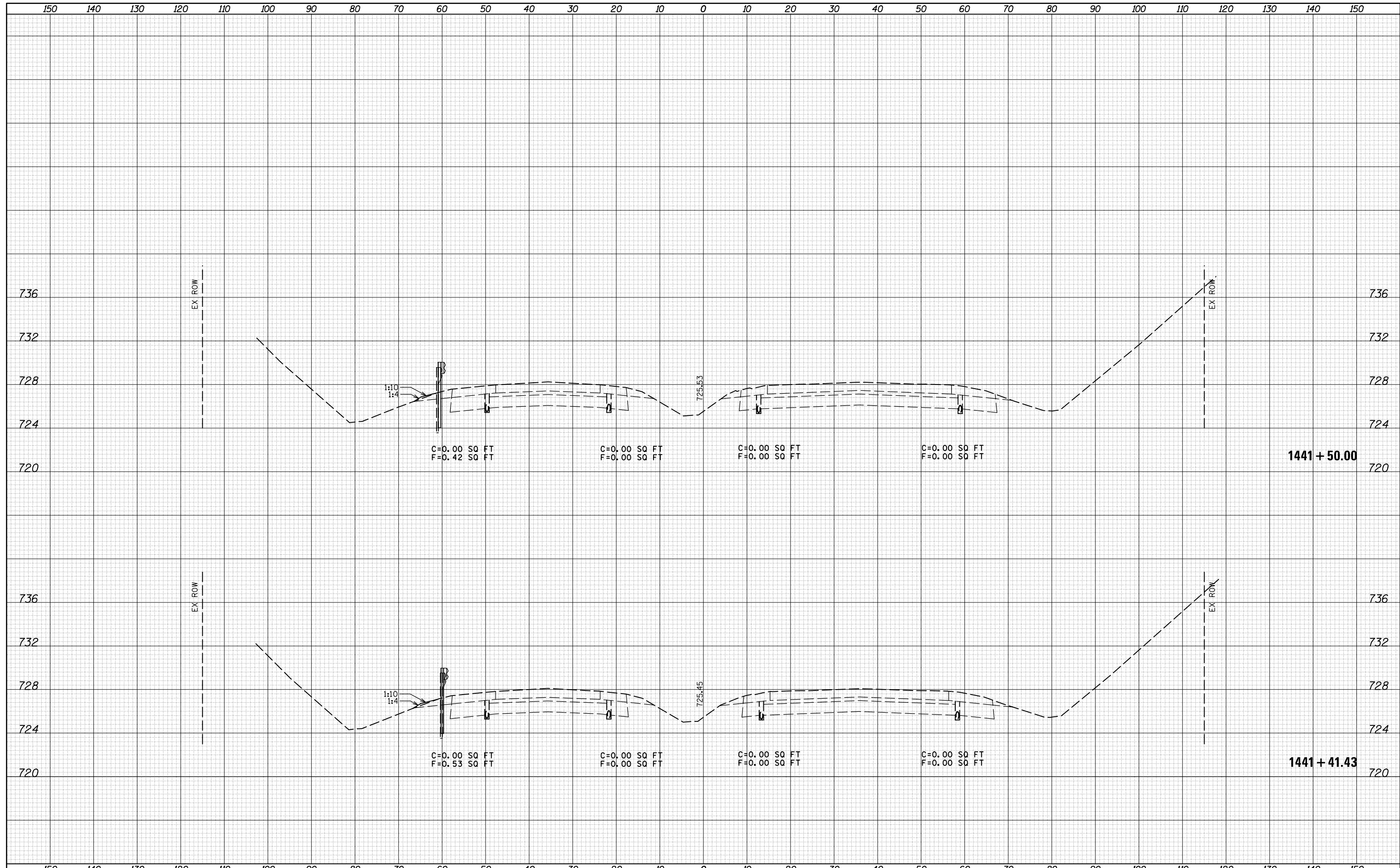
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

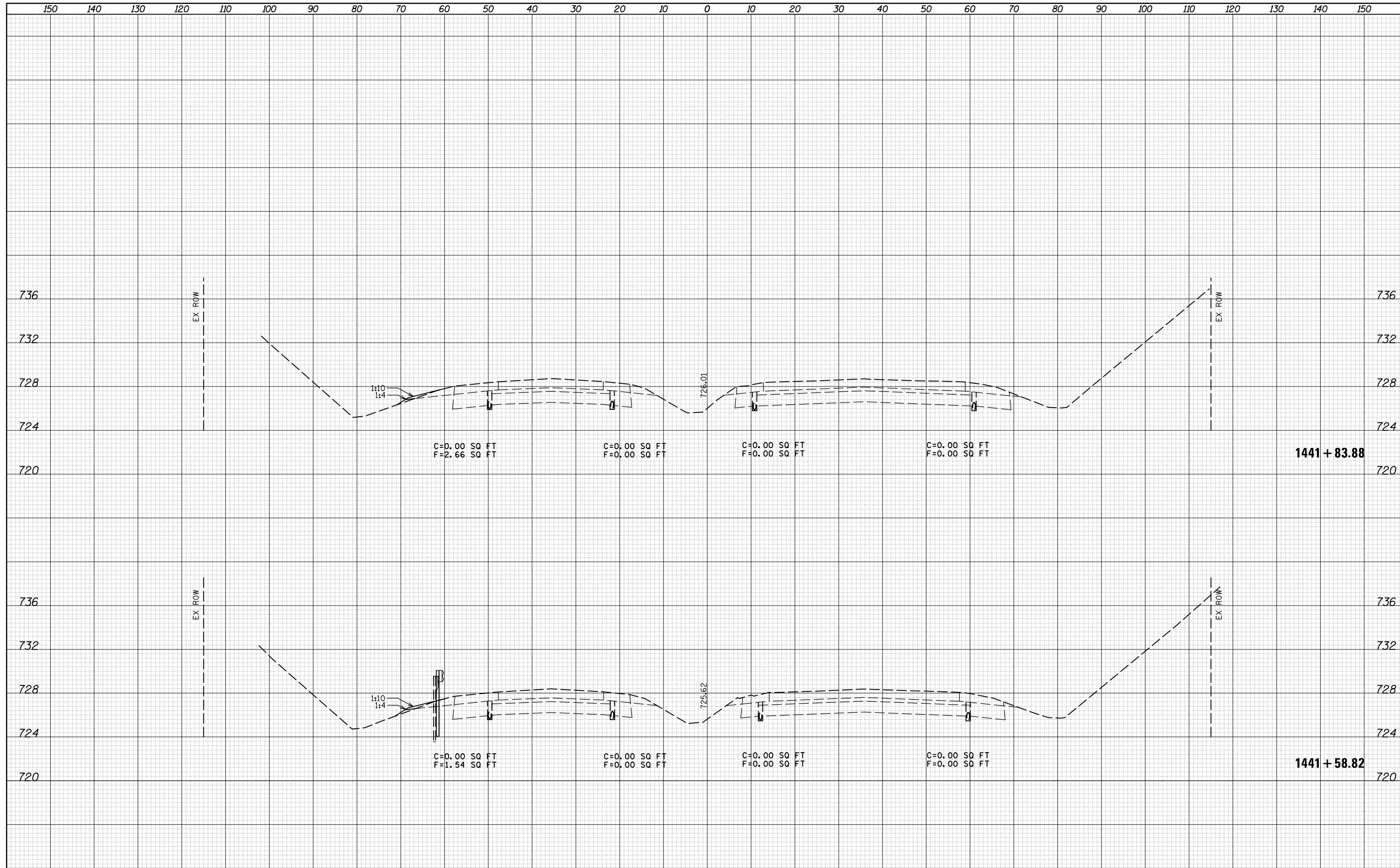
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 51 CROSS SECTION SHEETS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\pwidot\jaymedf\d0291813\0570606-shd-XS-Safety.dgn	DRAWN -	REVISED -	322					54B-3, 54B-2	DEWITT	89	87	
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 70606									
MODELNAME	DATE = 1/30/2014	REVISED -	SCALE:		SHEET 16	OF 18	SHEETS	STA. 1441+41.43	TO STA. 1441+50.00	ILLINOIS FED. AID PROJECT		

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS
	CHECKED

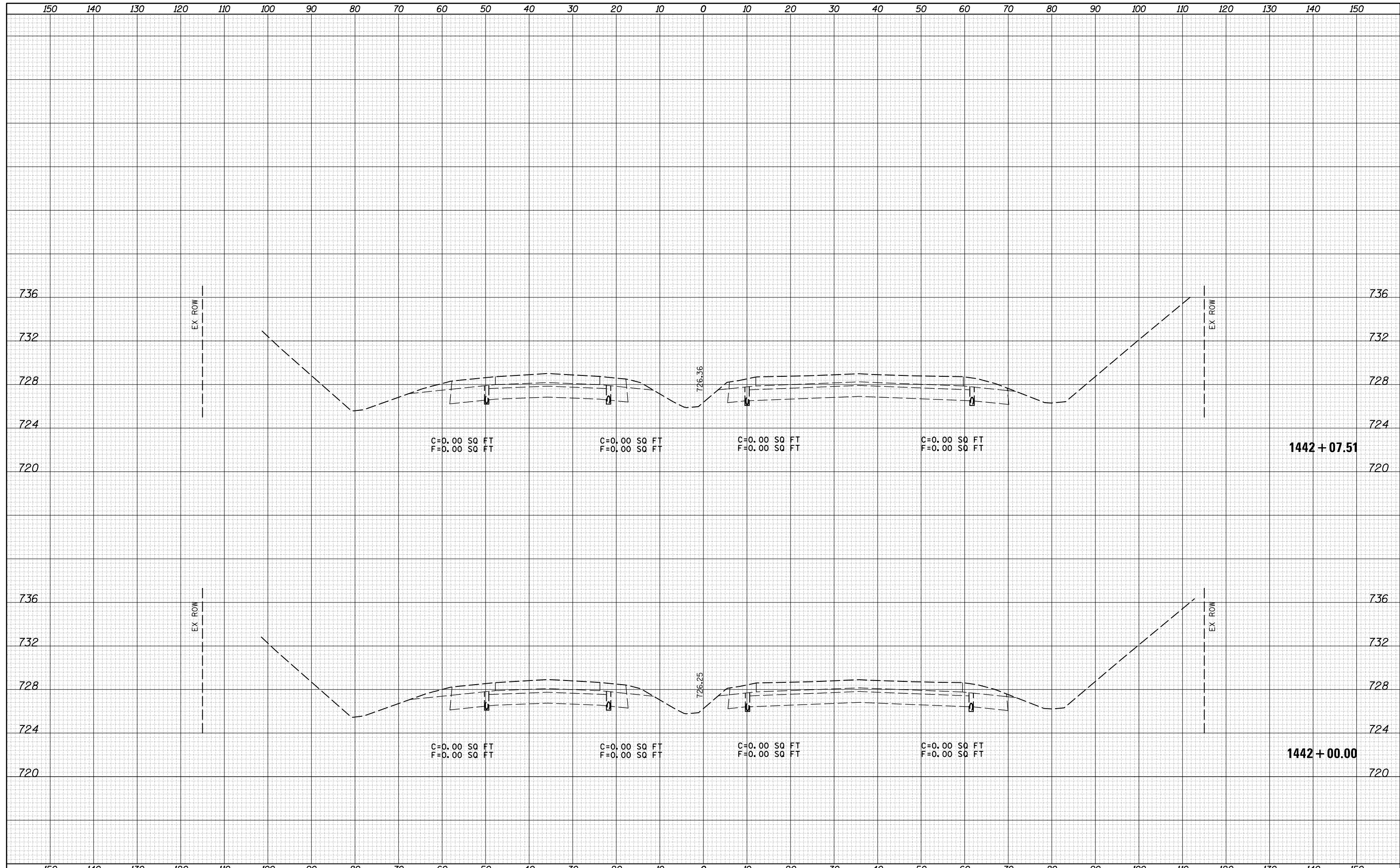
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS
	CHECKED



FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 51 CROSS SECTION SHEETS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\pwidot\jaymedf\d0291813\0570606-shd-XS-Safety.dgn	DRAWN -	REVISED -	322					54B-3, 54B-2	DEWITT	89	88	
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 70606									
MODELNAME	DATE -	REVISED -	SCALE:		SHEET 17	OF 18	SHEETS	STA. 1441+58.82	TO STA. 1441+83.88	ILLINOIS FED. AID PROJECT		

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME =	USER NAME = jaymedf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 51 CROSS SECTION SHEETS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cs:\pw_work\pwidot\jaymedf\d0291813\0570606-shd-XS-Safety.dgn	DRAWN -	REVISED -	322					54B-3, 54B-2	DEWITT	89	89	
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 70606									
MODELNAME	DATE - 1/31/2014	REVISED -	SCALE:		SHEET 18	OF 18	SHEETS	STA. 1442+00.00	TO STA. 1442+07.51	ILLINOIS FED. AID PROJECT		