

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

ROUTE FAI 57 (I-57)
SECTION (46-2) I, HBR, VBR
PROJECT: ACIM-057-6(190)306
KANKAKEE COUNTY
C-93-007-04

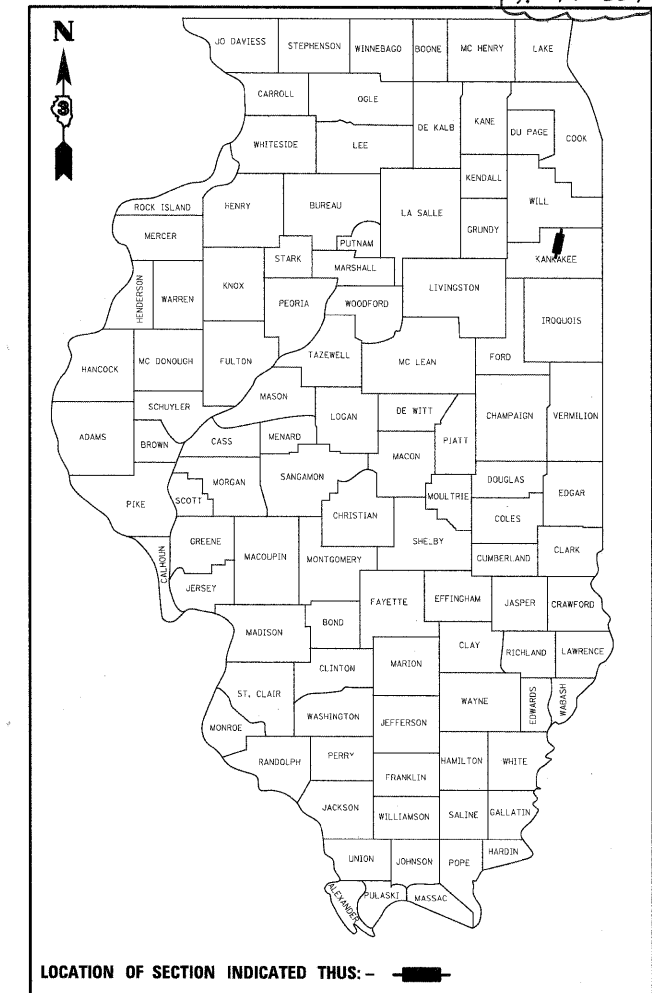
I-57 AT IL ROUTE 50
INTERCHANGE RECONSTRUCTION AND
BRIDGE REPLACEMENT (S.N. 046-0144, 0145, 0146, & 0147)

FOR INDEX OF SHEETS, SEE SHEET NO. 2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(46-2) I, HBR, VBR	KANKAKEE	558	1
FED. ROAD DIST. NO. 3		ILLINOIS	CONTRACT NO. 66409	

P-93-038-94
D-93-012-04

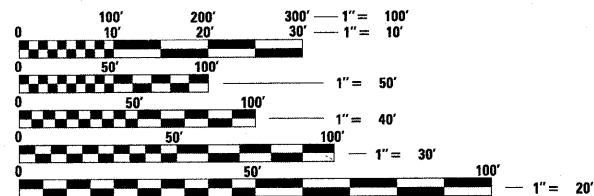
* +1=559



DESIGN DESIGNATION

I-57 2945(25) PRINCIPAL ARTERIAL (URBAN INTERSTATE) 71.4 (CRCP-20)
IL ROUTE 50 835(25) URBAN OTHER PRINCIPAL ARTERIAL 9.71 (PCC-20)

DESIGN SPEED: I-57 = 70 MPH
IL ROUTE 50 = 45 MPH



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.

MICROFILMED _____
REEL NUMBER _____
AWARDED _____
RESIDENT ENGINEER _____
AS BUILT CHANGES WERE MADE ON THE FOLLOWING SHEETS _____

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

DISTRICT 3 NO. (815) 434-6131
PROJECT ENGINEER: JOSEPH E KANNEL, P.E.
UNIT CHIEF: MICHELE LINDEMANN, P.E.
TOWNSHIP: BOURBONNAIS
CONTRACT NO. 66409



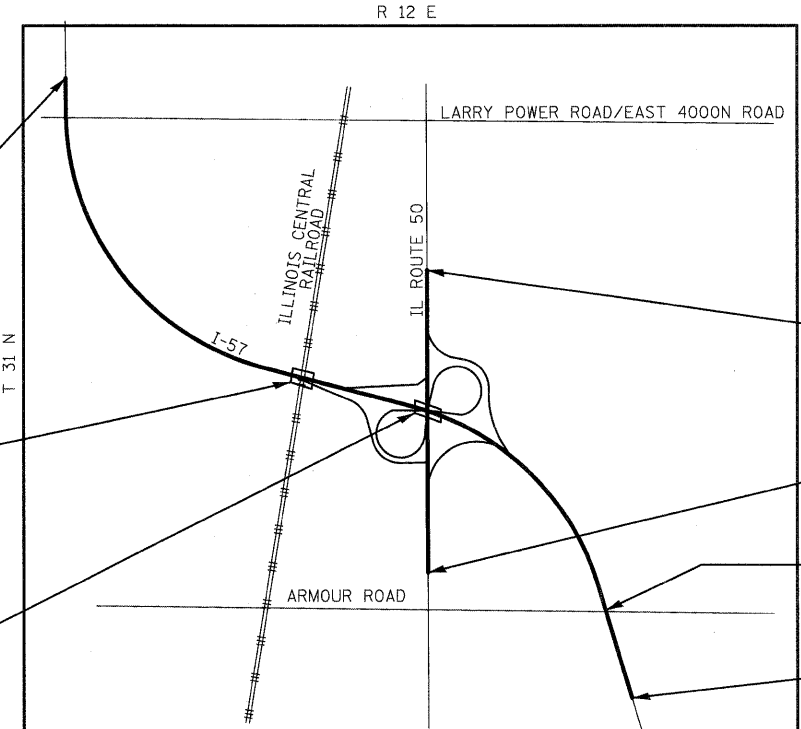
NAME: RICK YOUNG
EXP. 11/30/2011
DATE: _____
SHT NO. 1-215, 270-271, 381-558



NAME: GERALD KOYLASS
EXP. 11/30/2012
DATE: 12/17/2012
SHT NO. 216-225, 272-380



NAME: HARJIT SINGH
EXP. 11/30/2011
DATE: _____
SHT NO. 226-269



END IMPROVEMENT
STA 371+00.00 @ I-57

BRIDGE REPLACEMENT
STA. 325+93.10
EXIST SN 046-0016 (SB)
EXIST SN 046-0017 (NB)

PROP SN 046-0146 (SB)
PROP SN 046-0147 (NB)

BRIDGE REPLACEMENT
STA. 311+37.70
EXIST SN 046-0014 (SB)
EXIST SN 046-0015 (NB)

PROP SN 046-0144 (SB)
PROP SN 046-0145 (NB)

END IMPROVEMENT
STA 1328+25.00 @ IL-50

BEGIN IMPROVEMENT
STA 1292+00.00 @ IL-50

PROP RETAINING WALL
STA, 281+58
PROP SN 046-8804

BEGIN IMPROVEMENT
STA 271+94.00 @ I-57

LOCATION MAP
SCALE= 1:2400

LENGTH OF PROJECT
FAI RTE I-57 = 9,906.00 FT. = 1.876 MI.
GROSS LENGTH = 9,906.00 FT. = 1.876 MI.
NET LENGTH = 9,906.00 FT. = 1.876 MI.

F.A.I. 57 - INTERSTATE 57
FUNCTIONAL CLASSIFICATION: URBAN INTERSTATE
2009 ADT = 31,800
P.V. = 84.0% S.U. = 12.5% M.U. = 3.5%

F.A.P. 840 - IL RTE 50
FUNCTIONAL CLASSIFICATION: URBAN OTHER PRINCIPAL ARTERIAL
2009 ADT = 30,700
P.V. = 95.3% S.U. = 2.1% M.U. = 2.6%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec 23 20 10
Joseph E. Kannel
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 05 20 11
Scott E. Still P.E. Ia
acting ENGINEER OF DESIGN AND ENVIRONMENT

March 05 20 11
Christine M. Reed Ia
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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STANDARD NO.	TITLE
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
202001-01	EARTH MEDIAN DITCH CHECK
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420101-04	24' (7.2m) JOINTED PCC PAVEMENT
420106-04	36' (10.8m) JOINTED PCC PAVEMENT
420201-07	ENTRANCE RAMP TERMINAL (JOINTED PCC RAMP PAVEMENT ADJACENT TO JOINTED PCC MAINLINE PAVEMENT)

HIGHWAY STANDARDS

420206-08	ENTRANCE RAMP TERMINAL (JOINTED PCC RAMP PAVEMENT ADJACENT TO CRC MAINLINE PAVEMENT)
420306-06	EXIT RAMP TERMINAL (JOINTED PCC RAMP PAVEMENT ADJACENT TO CRC MAINLINE PAVEMENT)
420401-08	BRIDGE APPROACH PAVEMENT CONNECTOR
421001-02	BAR REINFORCEMENT FOR CRC PAVEMENT
421106-08	36' (10.8m) CRC PAVEMENT (WITH WIDE FLANGE BEAM TERMINAL JOINT)
424001-05	CURB RAMPS FOR SIDEWALKS
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-02	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
542311-02	GRATING FOR CONCRETE FLARED END SECTION (FOR 24" (600 MM) THRU 54" (1300 MM) PIPE)
601001-04	SUB-SURFACE DRAINS
601101-01	CONCRETE HEADWALL FOR PIPE DRAINS
602001-02	CATCH BASIN, TYPE A
602106-01	DRAINAGE STRUCTURES, TYPES 4, 5 & 6
602301-03	INLET, TYPE A
602401-03	MANHOLE, TYPE A
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS, TYPE 1
604071-04	FRAME AND GRATE, TYPE 20
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606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606006-02	OUTLET FOR CONCRETE CURB AND GUTTER, TYPE B-6.24 (B-15.60)
606301-04	PC CONCRETE ISLANDS AND MEDIANS
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630001-09	STEEL PLATE BEAM GUARDRAIL
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630301-05	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
631006-08	TRAFFIC BARRIER TERMINAL, TYPE 1B
631011-07	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-05	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-09	TRAFFIC BARRIER TERMINAL, TYPE 6
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637006-02	CONCRETE BARRIER, 42 IN. (1065 MM) HEIGHT
642001-01	SHOULDER RUMBLE STRIPS
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665001-02	WOVEN WIRE FENCE
666001-01	RIGHT-OF-WAY MARKERS
667101-01	PERMANENT SURVEY MARKERS
701401-06	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-08	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701406-06	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-07	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701416-06	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH CROSSOVER AND BARRIER
701451-01	RAMP CLOSURE FREEWAY/EXPRESSWAY
701456-01	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701601-07	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W, WITH NONTRAVERSABLE MEDIAN
701606-07	LANE CLOSURE, MULTILANE, 2W, WITH MOUNTABLE MEDIAN
701701-07	LANE CLOSURE, MULTILANE, INTERSECTION
701901-01	TRAFFIC CONTROL DEVICES
704001-06	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
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729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
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835001	LIGHT TOWER
836001	LIGHT POLE FOUNDATION
837001	LIGHT TOWER FOUNDATION
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
876001-01	PEDESTRIAN PUSH BUTTON POST
877006-03	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
877011-04	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877012-01	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001-08	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

FILE NAME = I:\Dgn\sheets\15001.dgn	USER NAME = EricG	DESIGNED - JWM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS AND HIGHWAY STANDARDS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 1:50	CHECKED - EJG	REVISED -	57			(46-2) I, HBR, VBR	KANKAKEE	558	2	
PLOT DATE = 12/22/2010	DATE - 12/17/10	REVISED -	CONTRACT NO. 66409							
						FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

Rev. 4-18-11

90% FED. / 10% STATE
 ROADWAY
 ILLINOIS CENTER (S&B)
 BY BRADLEY
 SAFETY (PAID 02/11)
 BY BRADLEY

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES			
				0004	0011	0011	0021
48101200	AGGREGATE SHOULDERS, TYPE B	TON	4,667	4,667			
48300500	PORTLAND CEMENT CONCRETE SHOULDERS 10"	SQ YD	5,993	5,993			
48300705	PORTLAND CEMENT CONCRETE SHOULDERS 12 1/4"	SQ YD	19,391	19,391			
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1			1	
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1			1	
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1		1		
50100600	REMOVAL OF EXISTING STRUCTURES NO. 4	EACH	1		1		
50102400	CONCRETE REMOVAL	CU YD	16.9	16.9			
50104650	SLOPE WALL REMOVAL	SQ YD	149	149			
50105220	PIPE CULVERT REMOVAL	FOOT	129.3	129.3			
50157300	PROTECTIVE SHIELD	SQ YD	3,925		2,174	1,751	
50200100	STRUCTURE EXCAVATION	CU YD	1285	40	706	539	
50300225	CONCRETE STRUCTURES	CU YD	2,291.6	36.6	1,071	1,184	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	2,723		1,325	1,398	
50300260	BRIDGE DECK GROOVING	SQ YD	7,089		3,131	3,958	
50300280	CONCRETE ENCASEMENT	CU YD	35		16	19	
50300300	PROTECTIVE COAT	SQ YD	8,059		3,644	4,415	
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1.00		0.53	0.47	
50500505	STUD SHEAR CONNECTORS	EACH	34,896		18,198	16,698	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,006,838	3,290	511,310	492,238	
50800515	BAR SPLICERS	EACH	4,647		2,488	2,159	
51100100	SLOPE WALL 4 INCH	SQ YD	1,322		1,174	148	
51201500	FURNISHING STEEL PILES HP10X57	FOOT	3,916		1,914	2,002	
51202305	DRIVING PILES	FOOT	3,916		1,914	2,002	
51203500	TEST PILE STEEL HP10X57	EACH	4		2	2	
51204650	PILE SHOES	EACH	98		46	52	
51500100	NAME PLATES	EACH	4		2	2	
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	80		36	44	
52100510	ANCHOR BOLTS, 3/4"	EACH	36		36		
52100520	ANCHOR BOLTS, 1"	EACH	320		144	176	
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	1	1			
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	1	1			
54001007	BOX CULVERT END SECTIONS, CULVERT NO. 7	EACH	1	1			
54002050	EXPANSION BOLTS 3/4 INCH X 9 INCH	EACH	24	24			
54010302	PRECAST CONCRETE BOX CULVERTS 3' X 2'	FOOT	34.8	34.8			

• DENOTES SPECIALTY ITEM

Rev. 4

Rev.

FILE NAME = I:\Dgn\sheet\sq02.dgn
 USER NAME = EricG
 PLOT SCALE = 1:50
 PLOT DATE = 12/22/2010

DESIGNED - JWM	REVISIONS
DRAWN - JWM	REVISIONS
CHECKED - EJC	REVISIONS
DATE - 12/17/10	REVISIONS

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 3 OF 11 SHEETS STA. TO STA.

F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(46-2) I, HBR, VBR	KANKAKEE	558	6
			CONTRACT NO. 66409	
FED. ROAD DIST. NO. 3 [ILLINOIS] FED. AID PROJECT				

90% FED / 10% STATE
 ROADWAY
 URBAN
 I-57 OVER I-55 (CSB) BY BRADLEY
 I-57 OVER I-55 (CSB) BY BRADLEY
 I-57 OVER I-55 (CSB) BY BRADLEY
 SAFETY (BY BRADLEY)

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES				
				0004	0011	0011	0021	0021
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2				
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	5	5				
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	7	7				
60240210	INLETS, TYPE B, TYPE 1 FRAME, OPEN LID	EACH	8	8				
60240328	INLETS, TYPE B, TYPE 24 FRAME AND GRATE	EACH	3	3				
60250200	CATCH BASINS TO BE ADJUSTED	EACH	6	6				
60255500	MANHOLES TO BE ADJUSTED	EACH	9	9				
60270050	DRAINAGE STRUCTURES, TYPE 4 WITH TWO TYPE 20 FRAME AND GRATES	EACH	34	34				
60500040	REMOVING MANHOLES	EACH	1	1				
60500050	REMOVING CATCH BASINS	EACH	7	7				
60500205	FILLING CATCH BASINS	EACH	11	11				
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	35.0	35.0				
60600605	CONCRETE CURB, TYPE B	FOOT	66					66
60602800	CONCRETE GUTTER, TYPE B	FOOT	166	166				
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	10,738	10,738				
60608521	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.24	FOOT	759	759				
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	47,694	47,694				
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	2,275	2,275				
63000005	STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	125	125				
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2				
63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1	1				
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	6	6				
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	9	9				
63200310	GUARDRAIL REMOVAL	FOOT	9,317	9,317				
63500105	DELINEATORS	EACH	786	786				
63700275	CONCRETE BARRIER, DOUBLE FACE, 42 INCH HEIGHT	FOOT	6,913	6,913				
63700805	CONCRETE BARRIER TRANSITION	FOOT	60	60				
63700900	CONCRETE BARRIER BASE	FOOT	6,973	6,973				
63801100	MODULAR BLADE-TYPE GLARE SCREENS	FOOT	19,175	19,175				
64200105	SHOULDER RUMBLE STRIPS	FOOT	24,876	24,876				
66400105	CHAIN LINK FENCE, 4'	FOOT	2,736	2,736				
66500105	WOVEN WIRE FENCE, 4'	FOOT	12,678	12,678				
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1,900	1,900				
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	3	3				
66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1				
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	1	1				
66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	40	40				
67100100	MOBILIZATION	L SUM	1	1				
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	140	140				
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	88,414	88,414				

• DENOTES SPECIALTY ITEM

Rev. 4-18-11

Rev.

FILE NAME = I:\Dgn\sheets\sq005.dgn

USER NAME = EricG
 PLOT SCALE = 1:50
 PLOT DATE = 12/22/2010

DESIGNED - JWM
 DRAWN - JWM
 CHECKED - EJM
 DATE - 12/17/10

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 5 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(46-2) I, HBR, VBR	KANKAKEE	558	8
CONTRACT NO. 66409			FED. ROAD DIST. NO. 3 [ILLINOIS] FED. AID PROJECT	

90% FED. / 10% STATE
 ROADWAY
 I-57 OVER RR
 SN 046-0015 (AND)
 I-57 OVER RR
 SN 046-0016 (AND)
 ILLINOIS CENTRAL RR
 SN 046-0017 (AND)
 SIGNALS
 (PAID FOR BY BRADLEY)
 SAFETY
 (PAID FOR BY BRADLEY)

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES				
				0004	0011	0011	0021	0021
• X8050010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1	1				
• X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1	1				
• X8410118	MAINTENANCE OF TEMPORARY LIGHTING SYSTEM	L SUM	1	1				
• 87100020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	5,658	5,658				
• 87301804	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	2,141	2,141				
• X8730320	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 20 3/C, TWISTED, SHIELDED	FOOT	2,118	2,118				
Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	110,580	110,580				
Z0001058	AGGREGATE SUBGRADE 18"	SQ YD	1,066	1,066				
Z0001060	AGGREGATE SUBGRADE 24"	SQ YD	1,979	1,979				
Z0007601	BUILDING REMOVAL NO. 1	L SUM	1	1				
Z0007602	BUILDING REMOVAL NO. 2	L SUM	1	1				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1				
Z0018800	DRAINAGE SYSTEM	L SUM	1			1		
Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	4			4		
Z0010911	DRILL AND GROUT #6 TIE BARS	EACH	104	104				
Z0022800	FENCE REMOVAL	FOOT	16,148	16,148				
Z0026407	TEMPORARY SHEET PILING	SQ FT	5,722		5,012	710		
Z0029999	IMPACT ATTENUATOR REMOVAL	EACH	9	9				
Z0030030	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2				
Z0030040	IMPACT ATTENUATORS (FULLY REDIRECTIVE, WIDE), TEST LEVEL 2	EACH	6	6				
Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4				
Z0030270	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	EACH	5	5				
Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	13	13				
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4				
• Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1	1				
• 87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	5,658	5,658				
Z0034105	MATERIAL TRANSFER DEVICE	TON	7,438	7,438				
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	655		302	353		
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1				
Z0049801	REMOVAL AND DISPOSAL OF FRIABLE ASBESTOS, BUILDING NO. 1	L SUM						
Z0049802	REMOVAL AND DISPOSAL OF FRIABLE ASBESTOS, BUILDING NO. 2	L SUM						
Z0049901	REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 1	L SUM						
Z0049902	REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 2	L SUM						
Z0062456	TEMPORARY PAVEMENT	SQ YD	30,332	30,332				
Z0065740	SLOTTED DRAIN 12" WITH VARIABLE SLOT	FOOT	2,490	2,490				
• Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2	2				

• DENOTES SPECIALTY ITEM

Rev. 4-18-11

FILE NAME = I:\Dgn\sheet\sq010.dgn	USER NAME = EricG	DESIGNED - JWM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 1:50	CHECKED - EUG	REVISED -	57					(46-2) I, HBR, VBR	KANKAKEE	558	13	
PLOT DATE = 12/22/2010	DATE - 12/17/10	REVISED -	SCALE: NONE SHEET NO. 10 OF 11 SHEETS STA. TO STA.			CONTRACT NO. 66409						
								FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

PROPOSED SCHEDULE														
DRWG NO.	STATIONS	CONCRETE CURB TYPE B FOOT	COMBINATION CC&G TYPE B-6.24 FOOT	CONCRETE MEDIAN SURF, 4 INCH SQ FT	CONC BAR DOUBLE FACE 42" HEIGHT FOOT	CONCRETE BARRIER TRANSITION FOOT	CONCRETE BARRIER BASE FOOT	CHAIN LINK FENCE, 4' FOOT	WOVEN WIRE FENCE, 4' FOOT	CONCRETE ISLAND (SPECIAL) SQ FT	DETECTABLE WARNINGS SQ FT	PCC SIDEWALK 5 INCH SQ FT	CONCRETE GUTTER, TYPE B FOOT	COMBINATION CC&G TYPE M-2.24 FOOT
I-57														
PP-1	255+00 TO 270+00													
PP-2	270+00 TO 285+00				1054	30	1084		1524				166	
PP-3	285+00 TO 300+00				1500		1500		2635					
PP-4	300+00 TO 315+00				1180	30	1210							
PP-5	315+00 TO 330+00				1271		1271		1193					
PP-6	330+00 TO 345+00				1500		1500		2480					
PP-7	345+00 TO 360+00				408		408		1644					
PP-8	360+00 TO 375+00													
PP-9	375+00 TO 390+00													
IL 50														
PP-10	1292+00 TO 1300+00		2094	14165				257						20
PP-11	1300+00 TO 1315+00	32	5395	21220				477		713	40	163		477
PP-12	1315+00 TO 1328+25	34	3249	12309				750		387	40	169		262
RAMPS / FRONTAGE ROAD														
PP-13	RAMP E							1183						
PP-14	RAMP E							69	853					
PP-15	RAMP F								708					
PP-16	RAMP F								1004					
PP-17	RAMP G								637					
PP-18	RAMP G													
PP-19	RAMP H													
PP-20	RAMP H													
PP-21	S. FRONTAGE ROAD													
TOTALS		66	10738	47694	6913	60	6973	2736	12678	1100	80	332	166	759

20% PARTICIPATION ITEM - BRADLEY (SHARED PATH)

20% PARTICIPATION ITEM - BRADLEY (SHARED PATH)

SPBGR, TYPE A, 6 FOOT POSTS				
DRWG#	STATION TO STATION	R/L	LENGTH	
PP-2/3	282+40.75 285+78.25	L	337.5	
PP-4	308+35.11 309+98.76	R	175.0	
PP-4	312+69.50 315+05.33	L	237.5	
PP-5	151+77.38 152+89.89	R	125.0	
PP-5	10+73.44 13+96.53	R	325.0	
PP-11	1309+75.08 1310+25.08	R	50.0	
PP-11	1312+87.16 1313+37.16	L	50.0	
PP-13/14	16+23.34 24+39.61	R	825.0	
PP-10/11	1299+00.00 1300+50.00	R	150.0	
				TOTAL = 2275.0

TRAFFIC BARRIER TERMINAL, TYPE 2				
DRWG#	STATION	R/L	EACH	
PP-2	282+41	L	1	
PP-14	24+54	R	1	
PP-11	1300+50	R	1	
PP-12	1320+44.5	L	1	
				TOTAL = 4

TRAFFIC BARRIER TERMINAL, TYPE 6				
DRWG#	STATION	R/L	EACH	
PP-4	310+43	R	1	
PP-4	312+24	L	1	
PP-5	324+81	R	1	
PP-5	326+68	L	1	
PP-11	1310+25	R	1	
PP-11	1312+41	L	1	
				TOTAL = 6

TBT, TYPE 1 (SPECIAL) TANGENT				
DRWG#	STATION	R/L	EACH	
PP-3	285+78	L	1	
PP-4	307+85	R	1	
PP-5	315+05	L	1	
PP-5	151+27	R	1	
PP-6	10+73	R	1	
PP-11	1309+25	R	1	
PP-11	1313+37	L	1	
PP-10	1298+75	R	1	
PP-12	1322+05	L	1	
				TOTAL = 9

STEEL PLATE BEAM GUARDRAIL, TYPE B				
DRWG#	STATION TO STATION	R/L	LENGTH	
PP-12	1320+55.00 1321+80.00	L	125.0	
				TOTAL = 125.0

TRAFFIC BARRIER TERMINAL, TYPE 5				
DRWG#	STATION	R/L	EACH	
PP-13	16+08	R	1	
				TOTAL = 1

PERMANENT SURVEY MARKERS, TYPE I				
DRWG#	STATION	DESC.	EACH	
PP-2	284+11.96	PC	1	
PP-4	313+76.54	PT	1	
PP-6	330+48.50	PC	1	
				TOTAL = 3

IMPACT ATTENUATORS (FRD, NAR) TL3				
DRWG#	STATION	R/L	EACH	
PP-3	273+50	LT	1	
PP-7	349+07	RT	1	
				TOTAL = 2

PERMANENT SURVEY MARKERS, TYPE II				
DRWG#	STATION	DESC.	EACH	
PP-8	367+86.89	PT	1	
				TOTAL = 1

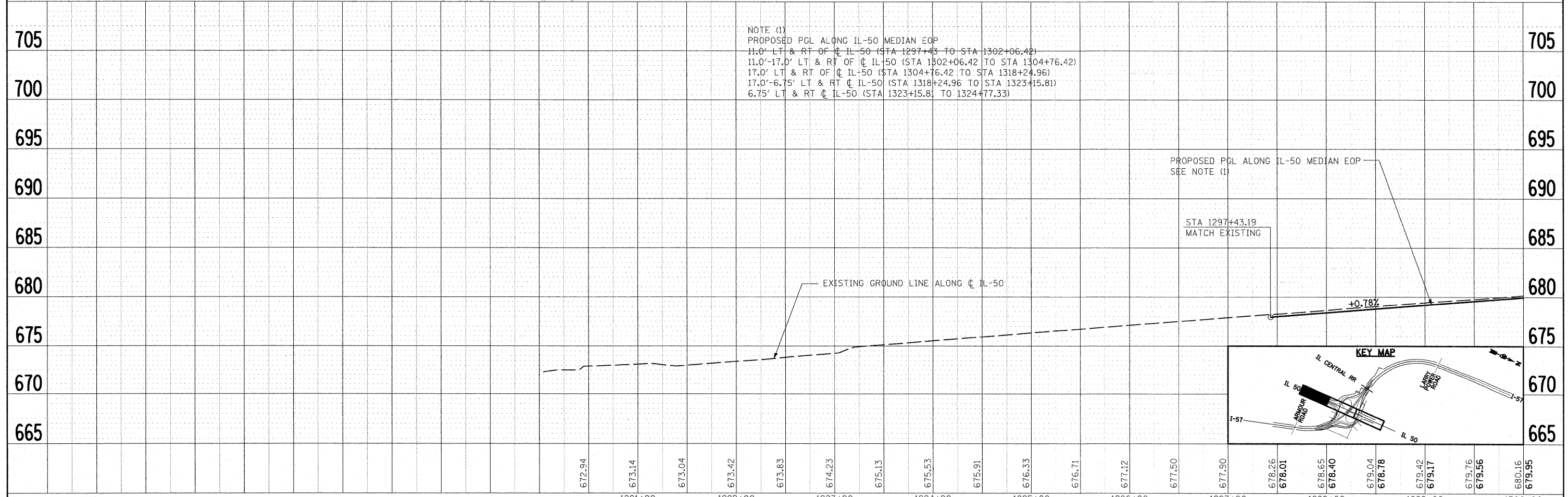
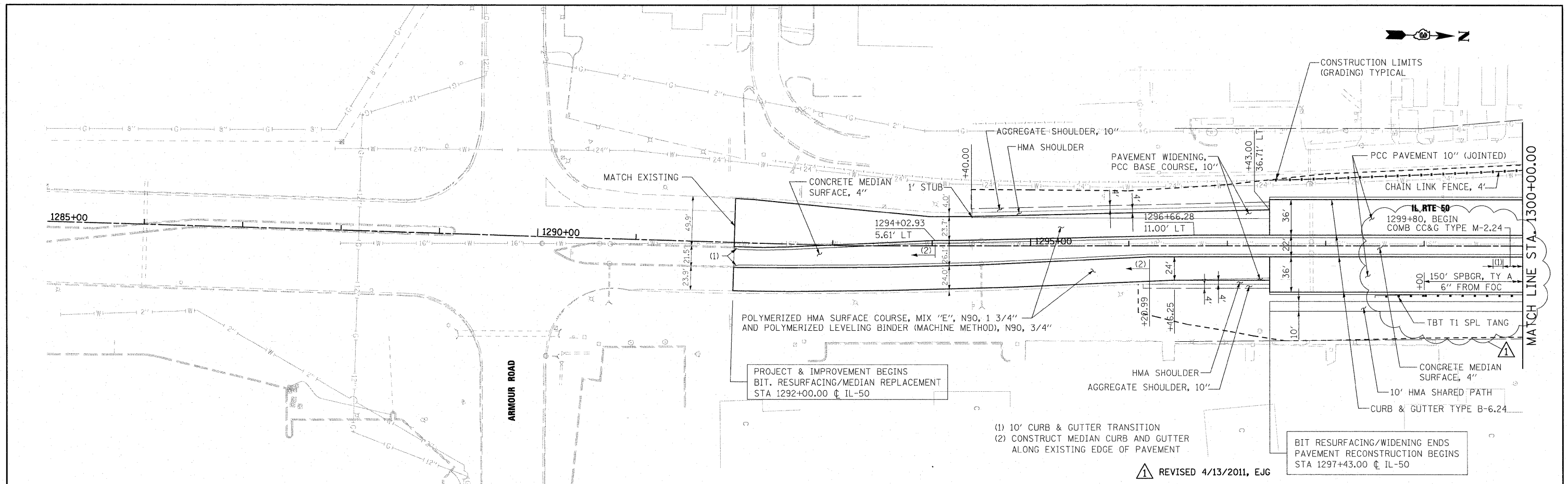
IMPACT ATTENUATORS (FRD, WID) TL2				
DRWG#	STATION	R/L	EACH	
PP-11	1300+91.5	-	1	
PP-11	1301+02.5	-	1	
PP-11	1310+89.5	L	1	
PP-11	1312+26.5	L	1	
PP-12	1320+44.5	L	1	
PP-12	1320+55.5	L	1	
				TOTAL = 6

REVISED 4/13/2011, EJJ

FILE NAME = I:\Dgn\sheets\sc026.dgn	USER NAME = EricG	DESIGNED - JWM	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES	F.A.I. RTE. 57	SECTION (46-2) I, HBR, VBR	COUNTY KANKAKEE	TOTAL SHEETS 558	SHEET NO. 28	CONTRACT NO. 66409
PLOT SCALE = 1:500	DESIGNED - JWM	REVISIONS -	SCALE:			SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. 3 [ILLINOIS] FED. AID PROJECT				
PLOT DATE = 4/14/2011	CHECKED - EJJ	REVISIONS -									
	DATE - 12/17/10	REVISIONS -									

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

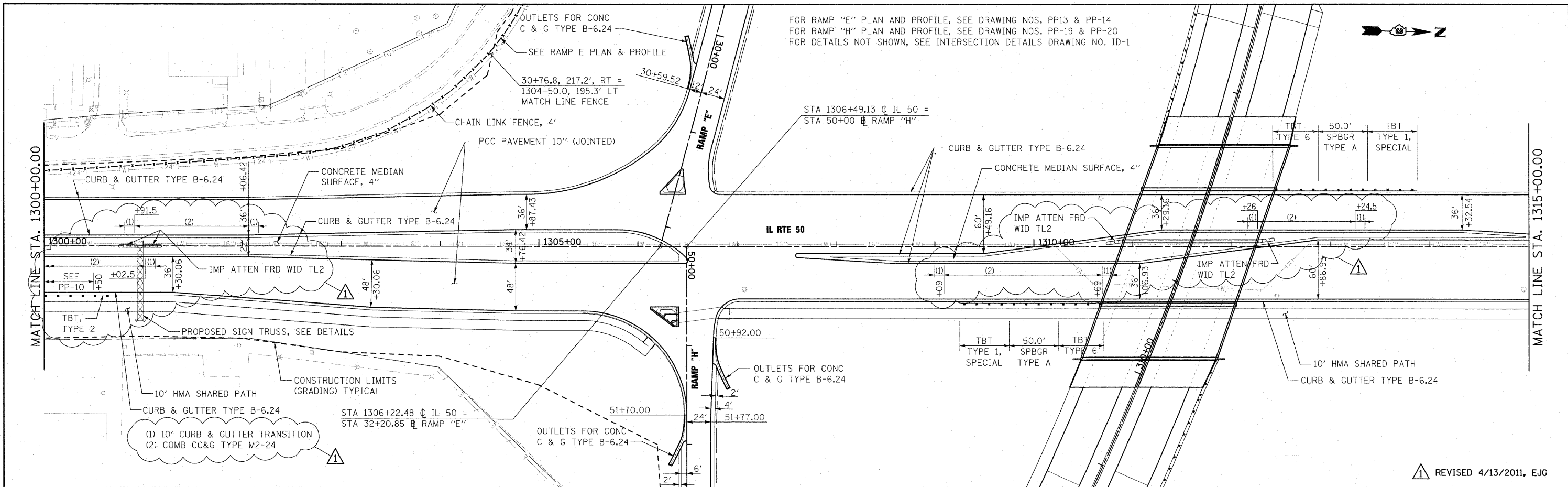
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	PLOTTED	
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	FILE NAME	



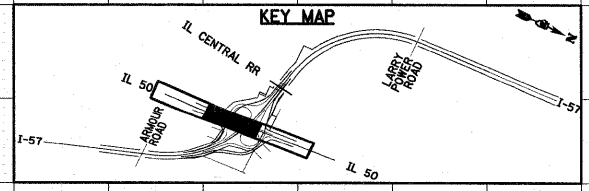
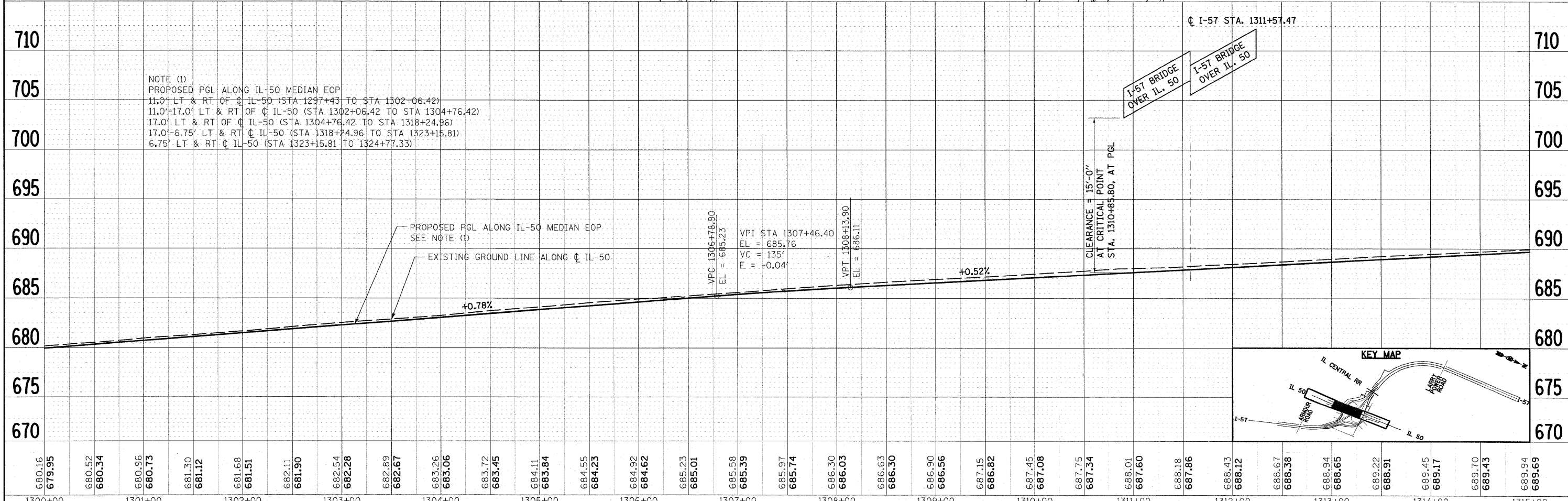
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PLOT DATE = 4/14/2011	DATE - 12/17/10	CHECKED - EJG	REVISD -			FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT					
		DATE - 12/17/10	REVISD -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.			

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
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PROFILE	SURVEYED	DATE
	PLOTTED	
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	STRUCTURE NOTATIONS OK'D	
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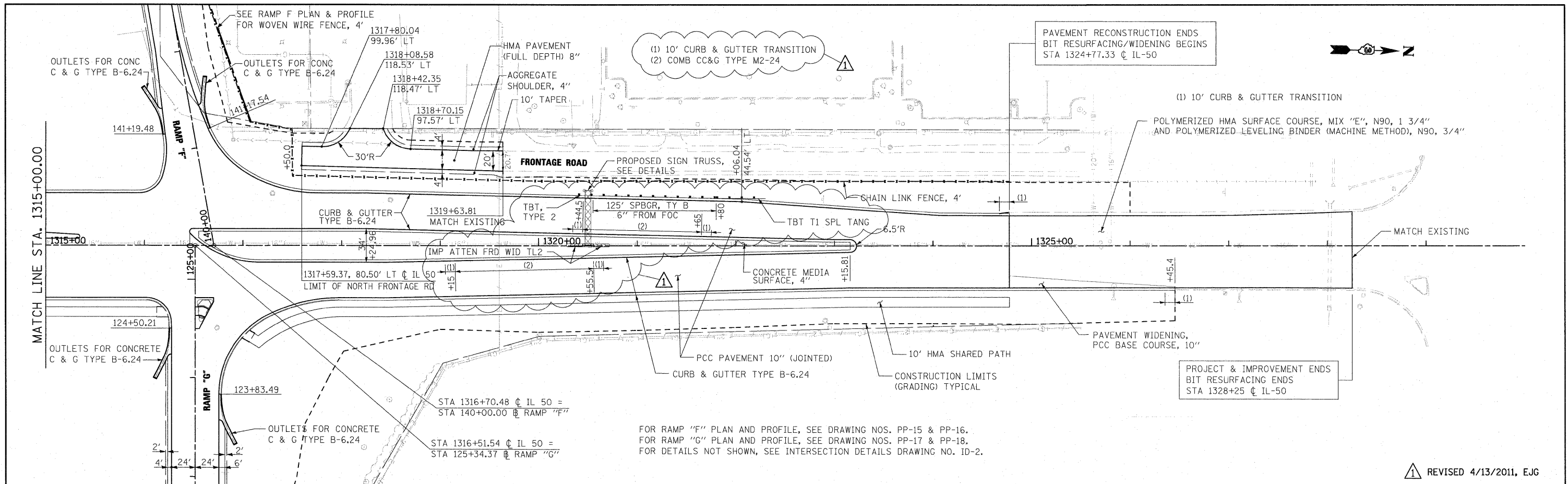
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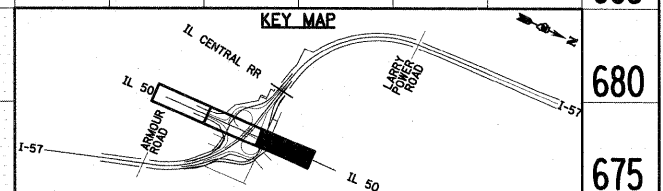
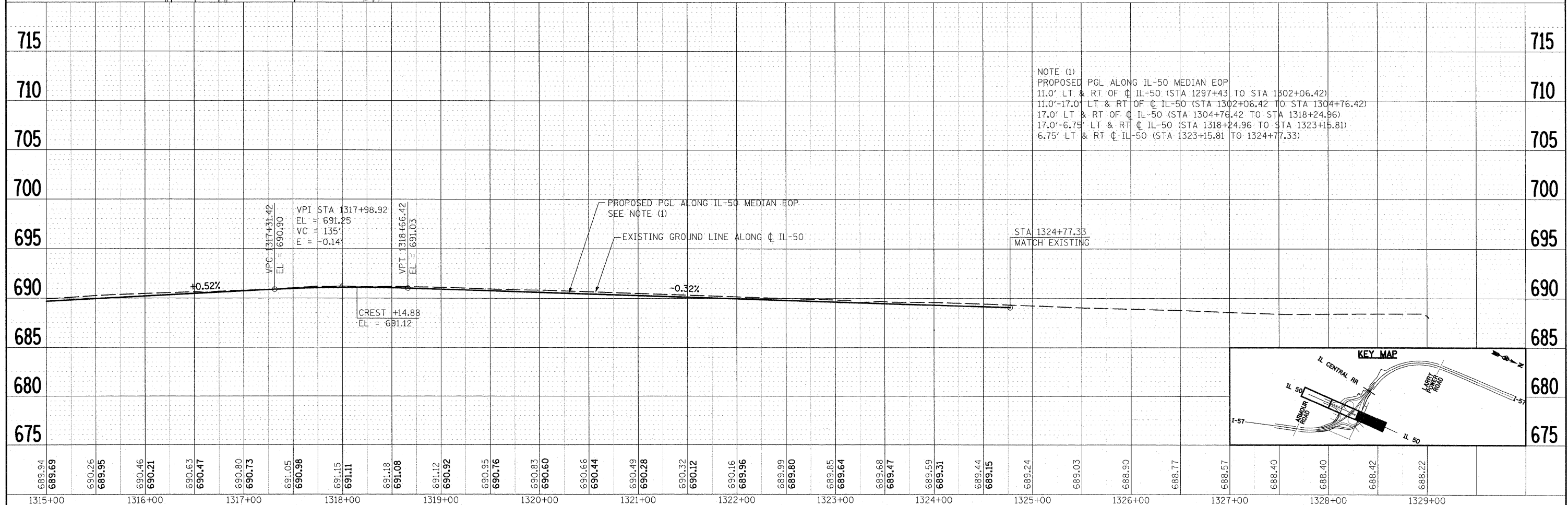
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		DATE - 12/17/10	REVISED -											

PLAN	SURVEYED	DATE
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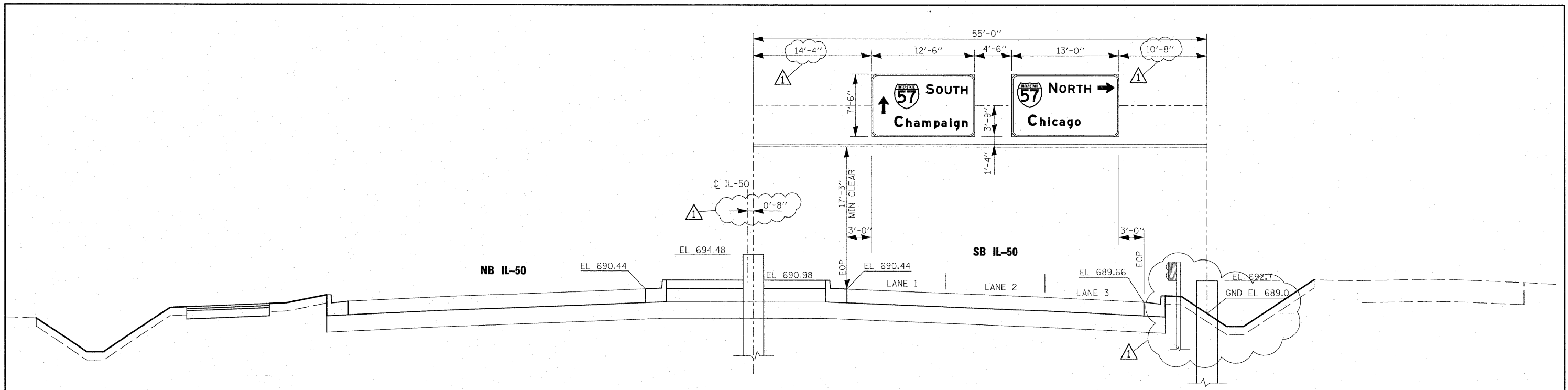
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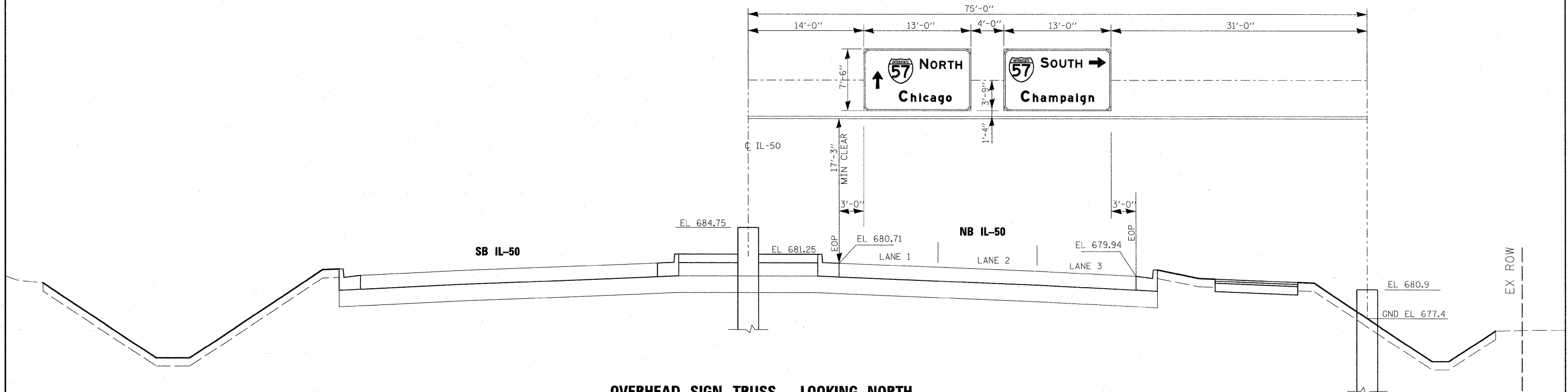
REVISD 4/13/2011, E.JG



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PLOT SCALE = 1:50	CHECKED - E.JG	DATE - 12/17/10	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 66409			
PLOT DATE = 4/14/2011						FED. ROAD DIST. NO. 3 [ILLINOIS] FED. AID PROJECT					



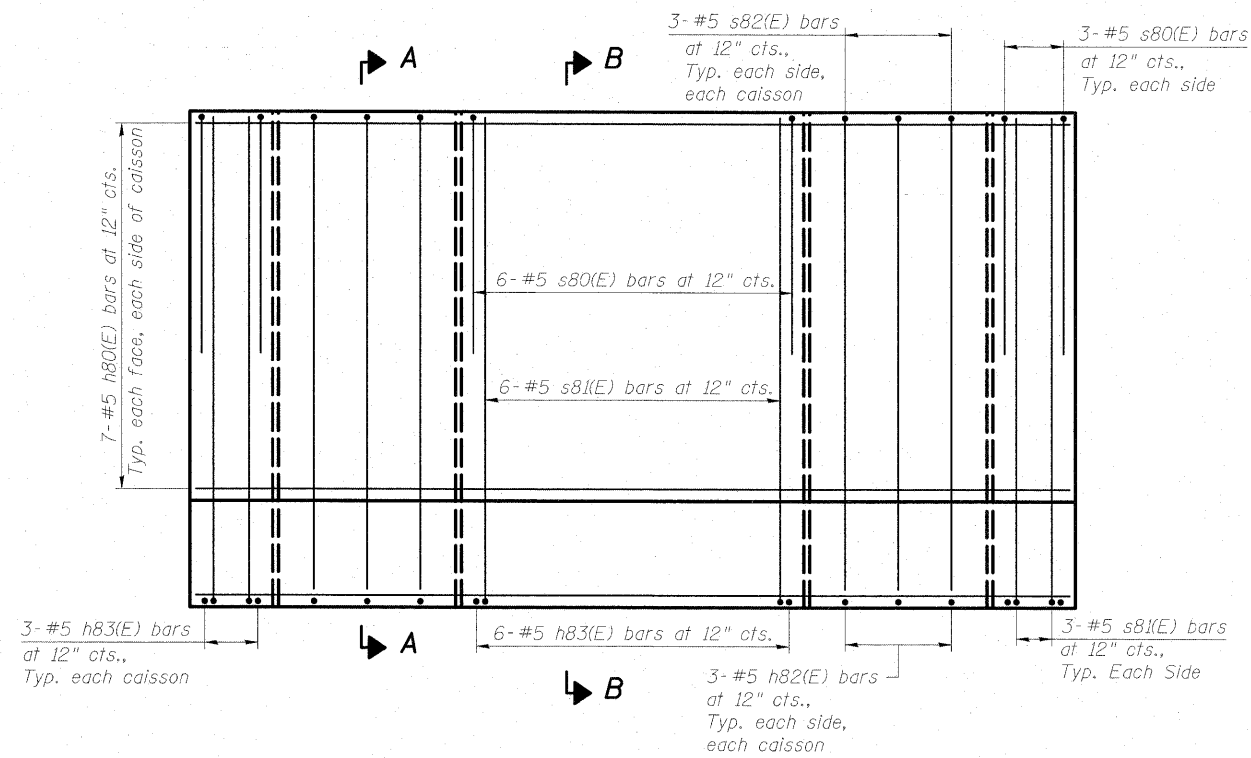
OVERHEAD SIGN TRUSS - LOOKING SOUTH
STA 1320+50 (SB IL-50)



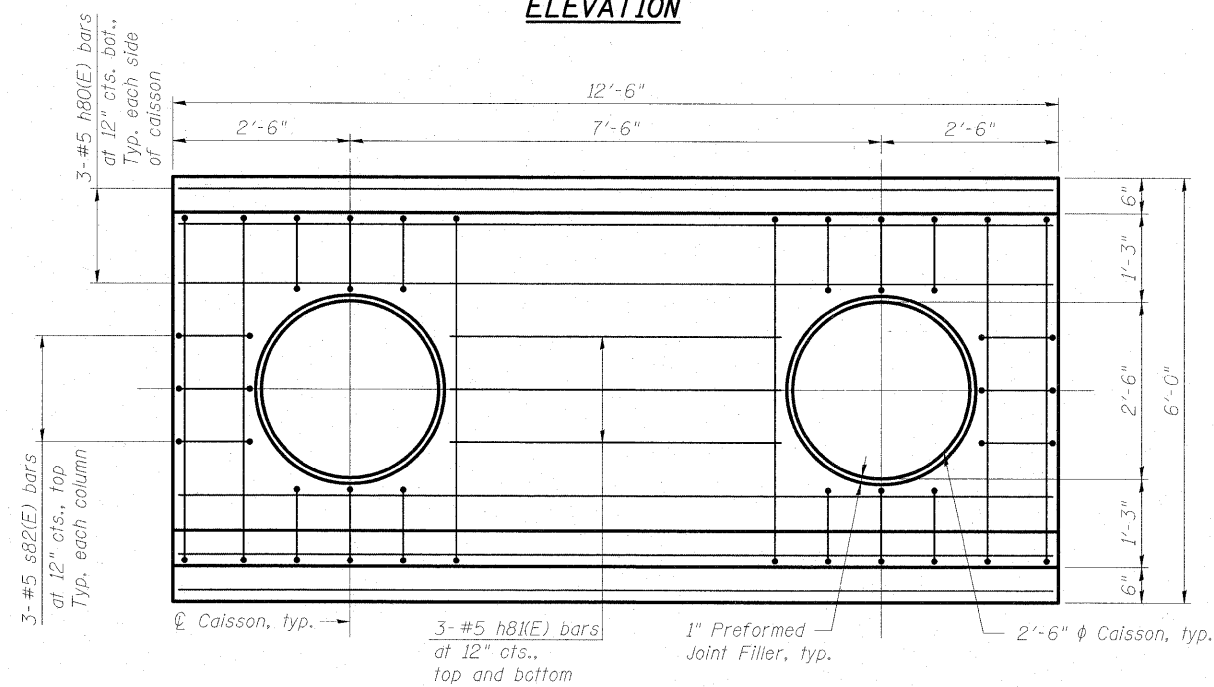
OVERHEAD SIGN TRUSS - LOOKING NORTH
STA 1300+97 (NB IL-50)

REVISD 4/13/2011, EJG

FILE NAME = I:\Dgn\sheets\1109.dgn	USER NAME = EricG	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL LAYOUT			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:6	DRAWN -	REVISED -					57	(46-2) I, HBR, VBR	KANKAKEE	558	211
	PLOT DATE = 4/14/2011	CHECKED -	REVISED -		CONTRACT NO. 66409							
		DATE = 12/17/10	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 3	ILLINOIS

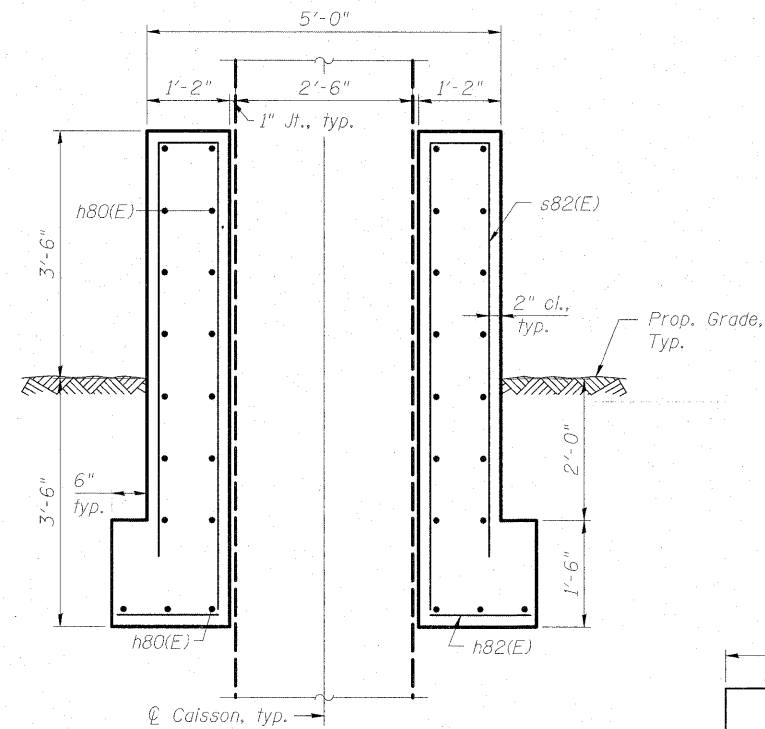


ELEVATION

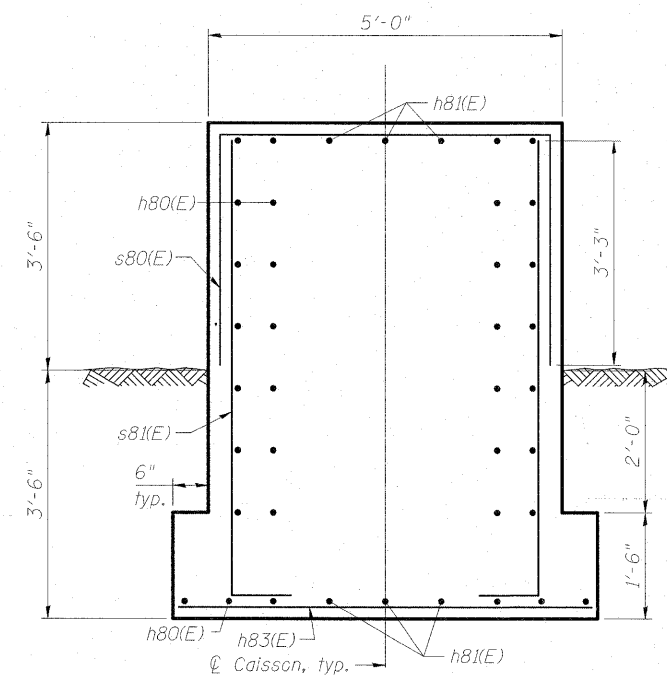


PLAN

Typical at each sign foundation, median locations only.
(2 locations total)



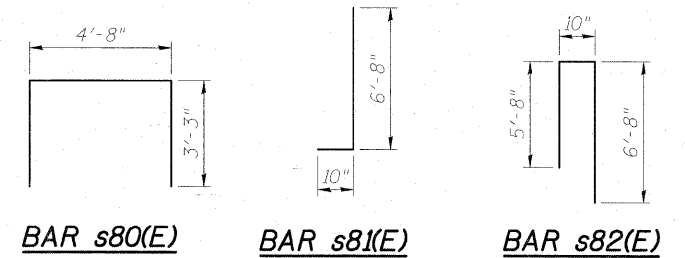
SECTION A-A



SECTION B-B

BILL OF MATERIAL

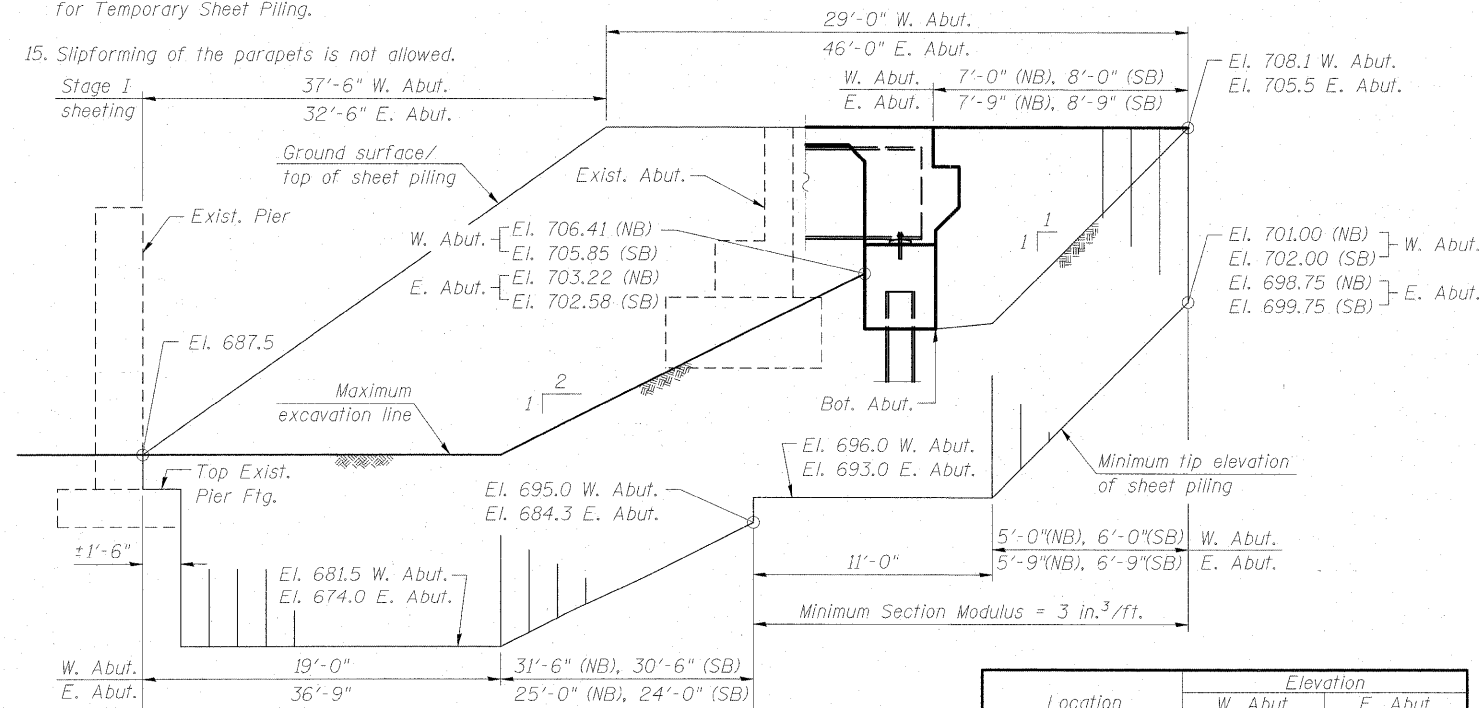
Bar	No.	Size	Length	Shape
h80(E)	68	#5	12'-2"	—
h81(E)	12	#5	4'-6"	—
h82(E)	24	#5	1'-4"	—
h83(E)	24	#5	5'-8"	—
s80(E)	24	#5	11'-2"	⌊
s81(E)	24	#5	7'-6"	⌋
s82(E)	36	#5	13'-2"	⌋
Structure Excavation			Cu. Yd.	40
Reinforcement Bars, Epoxy Coated			Pound	2,060
Concrete Structures			Cu. Yd.	28.0



FILE NAME = I:\Struct\vdgn\shh\IL 58-S133.dgn	USER NAME = Phannemann	DESIGNED - MGB	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES CRASHWALL DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 1/4"=1'-0"	CHECKED - PMH	REVISD -	57			(46-2) I, HBR, VBR	KANKAKEE	558	225A	
PLOT DATE = 4/14/2011	DRAWN - PMH	REVISD -	CONTRACT NO. 66409							
	CHECKED -	REVISD -	FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT							

GENERAL NOTES

- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 7/8 in. dia., holes 15/16 in. dia., unless otherwise noted.
- Calculated weight of Structural Steel:
AASHTO M270 Grade 50 = 524,980 lbs
AASHTO M270 Grade 36 = 52,290 lbs
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Concrete Sealer shall be applied to the designated areas of the piers.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception of the exterior surfaces and the bottom of the bottom flange of fascia beams, masked off connection surfaces, field installed fasteners and damaged areas shall be touched up and finish coated in the field. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and the bottom of the bottom flange of fascia beams shall be Blue, Munsell No. 10B 3/6. See Special Provision for "Cleaning and Painting New Metal Structures."
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.
- If the contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
- The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.
- Slipforming of the parapets is not allowed.



TEMPORARY SHEET PILING FRONT ELEVATION

DESIGNED	PMH
CHECKED	BB
DRAWN	PMH
CHECKED	BB

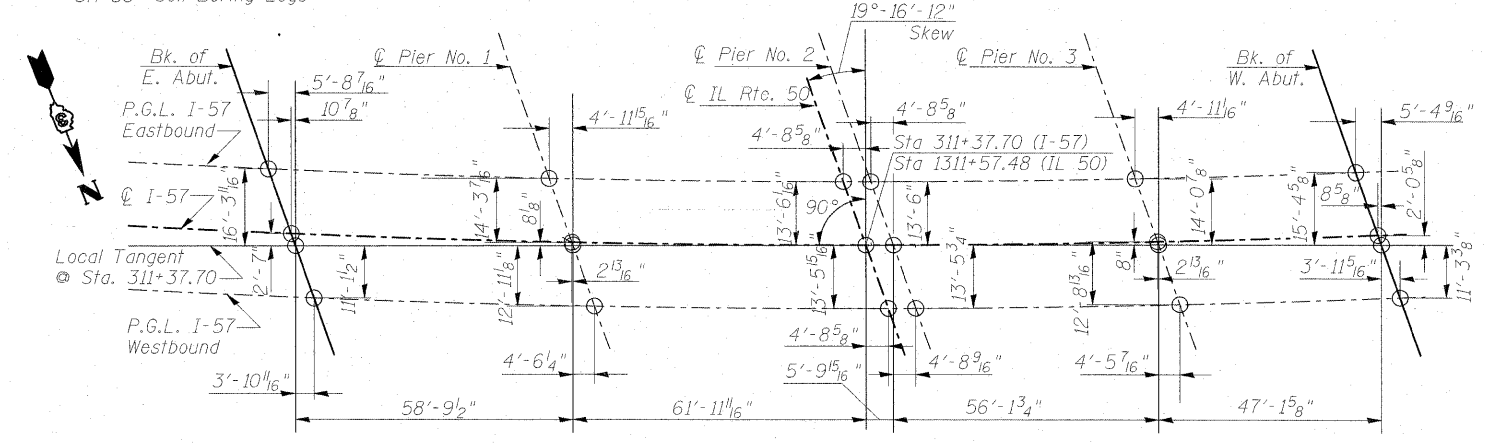
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS

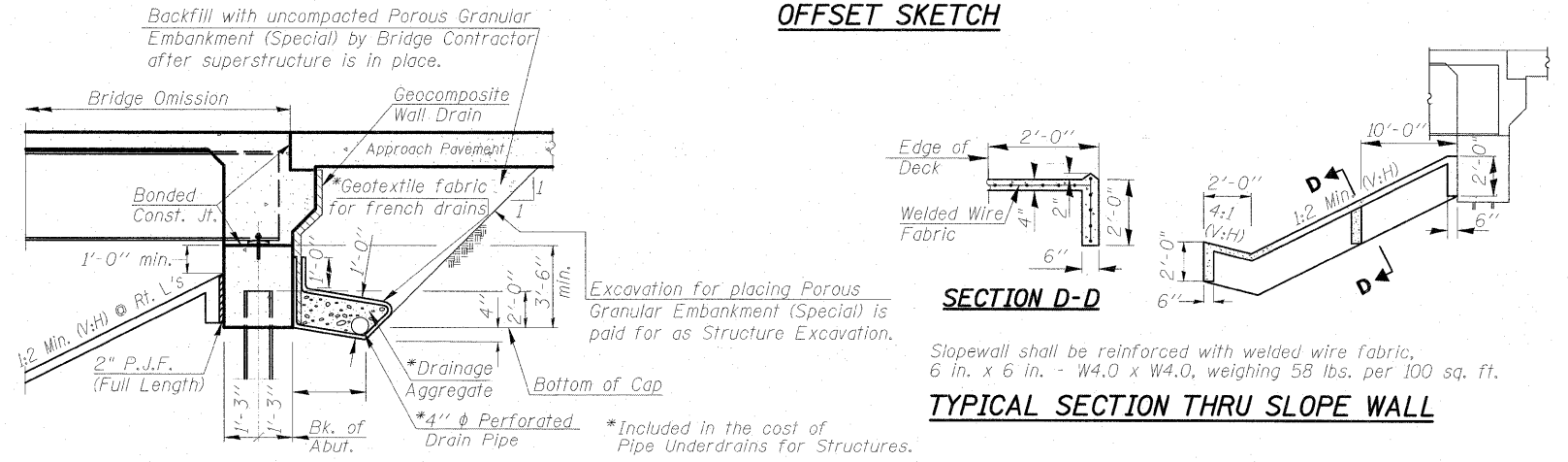
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|---|---|
| SH-1 General Plan and Elevation | SH-31 Approach Slab Details (NB) |
| SH-2 General Notes & Total Bill of Material | SH-32 SB Framing Plan |
| SH-3 Construction Staging | SH-33 NB Framing Plan |
| SH-4 Footing Layout | SH-34 Steel Details 1 of 2 |
| SH-5 Top of Slab Elevations 1 of 7 | SH-35 Steel Details 2 of 2 |
| SH-6 Top of Slab Elevations 2 of 7 | SH-36 Bearing Details 1 of 2 |
| SH-7 Top of Slab Elevations 3 of 7 | SH-37 Bearing Details 2 of 2 |
| SH-8 Top of Slab Elevations 4 of 7 | SH-38 East Abutment & Details (SB) |
| SH-9 Top of Slab Elevations 5 of 7 | SH-39 East Abutment & Details (NB) |
| SH-10 Top of Slab Elevations 6 of 7 | SH-40 West Abutment & Details (SB) |
| SH-11 Top of Slab Elevations 7 of 7 | SH-41 West Abutment & Details (NB) |
| SH-12 Top of East Approach Slab Elevations (SB) | SH-42 East and West Abutment Removal |
| SH-13 Top of East Approach Slab Elevations (NB) | SH-43 Pier 1 (SB) |
| SH-14 Top of West Approach Slab Elevations (SB) | SH-44 Pier 1 (NB) |
| SH-15 Top of West Approach Slab Elevations (NB) | SH-45 Pier 2 (SB) |
| SH-16 Southbound Deck Geometry Plan | SH-46 Pier 2 (NB) |
| SH-17 Northbound Deck Geometry Plan | SH-47 Pier 3 (SB) |
| SH-18 Deck Plan and Section (SB) | SH-48 Pier 3 (NB) |
| SH-19 Deck Plan and Section (NB) | SH-49 Piers 1, 2 and 3 Removal |
| SH-20 Parapet Details 1 of 2 | SH-50 Temporary Concrete Barrier for Stage Construction |
| SH-21 Parapet Details 2 of 2 | SH-51 Bar Splicer Assembly and Mechanical Splicer Details |
| SH-22 Deck Details and Bill of Material | SH-52 HP Pile Details |
| SH-23 Bar Cutting Diagrams | SH-53 Cantilever Forming Brackets |
| SH-24 Diaphragm at East Abutment (SB) | SH-54 Soil Boring Logs |
| SH-25 Diaphragm at East Abutment (NB) | SH-55 Soil Boring Logs |
| SH-26 Diaphragm at West Abutment (SB) | SH-56 Soil Boring Logs |
| SH-27 Diaphragm at West Abutment (NB) | |
| SH-28 Approach Slab Plan (SB) | |
| SH-29 Approach Slab Details (SB) | |
| SH-30 Approach Slab Plan (NB) | |

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures No. 3	Each			1
Removal of Existing Structures No. 4	Each			1
Protective Shield	Sq Yd	2,174		2,174
Structure Excavation	Cu Yd		706	706
Concrete Structures	Cu Yd		1,071.0	1,071.0
Concrete Superstructure	Cu Yd	1,325.0		1,325.0
Bridge Deck Grooving	Sq Yd	3,131		3,131
Concrete Encasement	Cu Yd		16.0	16.0
Protective Coat	Sq Yd	3,644		3,644
Furnishing and Erecting Structural Steel	L Sum	0.53		0.53
Stud Shear Connectors	Each	18,198		18,198
Reinforcement Bars, Epoxy Coated	Pound	324,890	186,420	511,310
Bar Splicers	Each	1,960	528	2,488
Slope Wall 4 Inch	Sq Yd		1,174	1,174
Furnishing Steel Piles HP10x57	Ft		1,914	1,914
Driving Piles	Ft		1,914	1,914
Test Pile Steel HP10x57	Each		2	2
Pile Shoes	Each		46	46
Name Plates	Each	2		2
Elastomeric Bearing Assembly, Type I	Each		36	36
Anchor Bolts, 3/4"	Each		36	36
Anchor Bolts, 1"	Each		144	144
Concrete Sealer	Sq Ft		9,149	9,149
Geocomposite Wall Drain	Sq Yd		203	203
Braced Excavation	Cu Yd		2,990	2,990
Porous Granular Embankment, Special	Cu Yd		336	336
Temporary Sheet Piling	Sq Ft		5,012	5,012
Pipe Underdrains for Structures 4"	Ft		302	302



OFFSET SKETCH



SECTION D-D

TYPICAL SECTION THRU SLOPE WALL

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101)

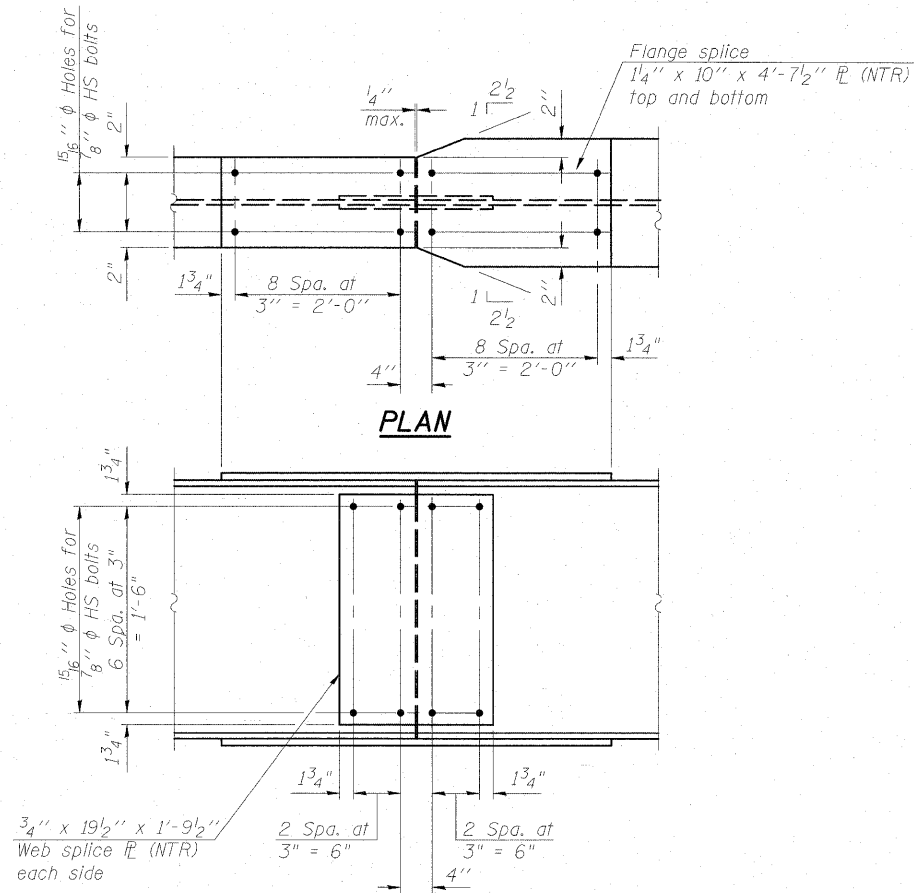
SECTION THRU INTEGRAL ABUTMENT

**GENERAL NOTES
& TOTAL BILL OF MATERIAL
STRUCTURE NO. 046-0144 (S.B.)
& STRUCTURE NO. 046-0145 (N.B.)**

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO. SH-2 SHEETS SH-56	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	57	(46-2) HBR	KANKAKEE	558	273
CONTRACT NO. 66409					
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT					

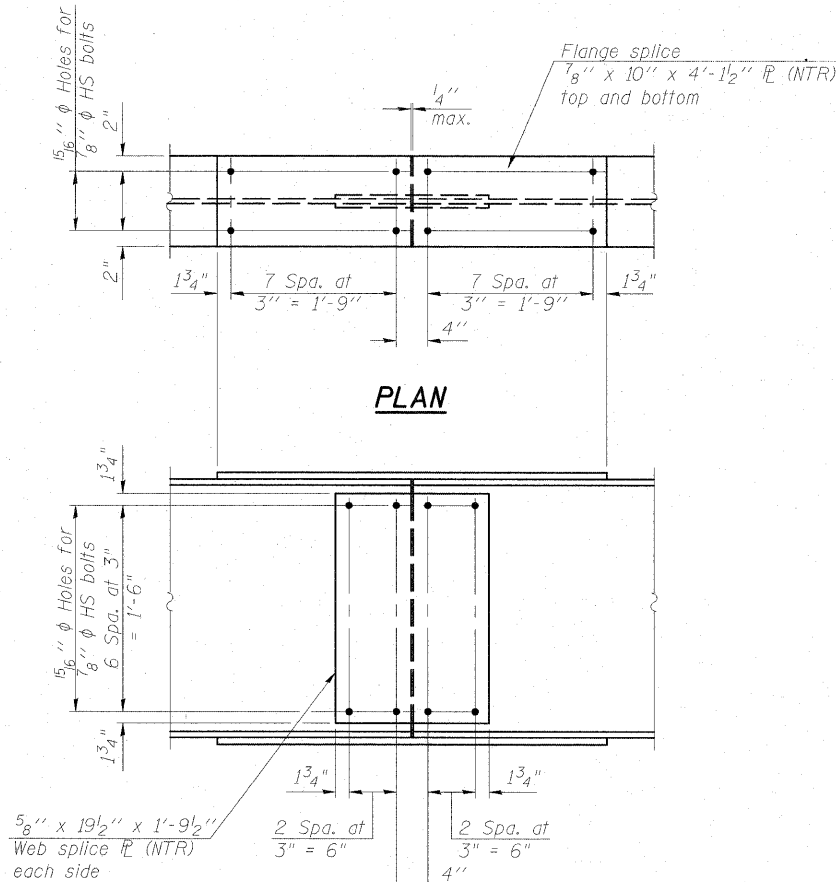
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION

SPLICE #1 DETAIL

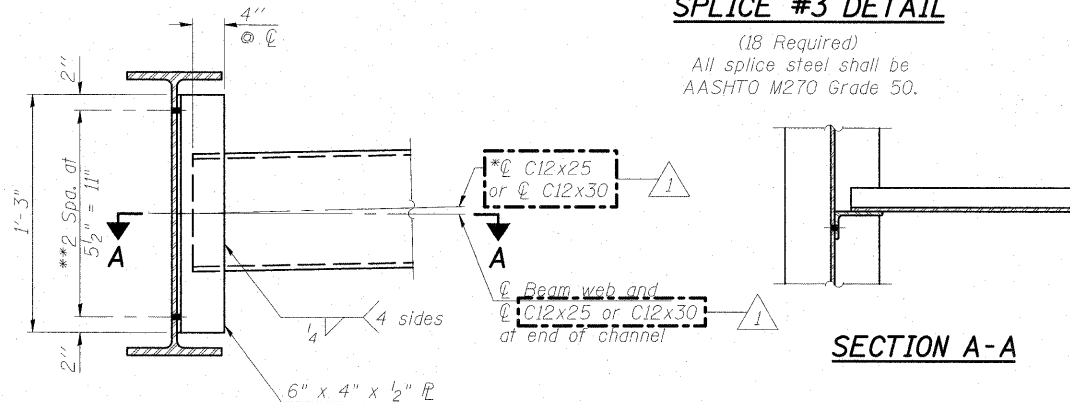
(Splice #2 Similar)
(36 required)
All splice steel shall be
AASHTO M270 Grade 50.



ELEVATION

SPLICE #3 DETAIL

(18 Required)
All splice steel shall be
AASHTO M270 Grade 50.



INTERIOR DIAPHRAGM

Two hardened washers required for each set of oversized holes.

* Alternate channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.

** 3/4 inch HS bolts, 15/16 inch holes

Note:
Load carrying components designated "NTR" shall conform to the supplemental requirements for notch toughness, zone 2.

INTERIOR BEAM REACTION TABLE						
	E. Abut.	Pier 1	Pier 2	Pier 3	W. Abut.	
R _ℓ	(k)	32.7	107.1	91.9	80.7	26.5
R _ℓ	(k)	40.2	46.4	45.5	44.9	38.0
Imp.	(k)	11.0	12.3	12.1	12.8	11.1
R _{Total}	(k)	83.9	165.8	149.5	138.4	75.6

INTERIOR BEAM MOMENT TABLE								
		0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.5 Sp. 3	Pier 3	0.6 Sp. 4
I _s	(in ⁴)	4036	5578	5578	4036	4036	3222	3222
I _c (n)	(in ⁴)	12627		15718		12620		10586
I _c (3n)	(in ⁴)	9324		11450		9317		7957
S _s	(in ³)	296	407	407	296	296	239	239
S _c (n)	(in ³)	471		607		471		389
S _c (3n)	(in ³)	425		548		425		353
Z	(in ³)							
ℓ	(k/')	0.935	1.510	0.952	1.499	0.918	1.477	0.901
M _ℓ	(k)	206	594	202	415	112	326	139
s _ℓ	(k/')	0.569		0.563		0.564		0.569
M _{sℓ}	(k)	152		164		101		101
M _ℓ	(k)	444	258	478	214	353	173	326
M _{Imp}	(k)	122	69	124	57	98	49	96
⁵ ₃ [M _ℓ + M _{Imp}]	(k)	943	545	1003	452	752	370	703
M _a	(k)	1692	1481	1780	1127	1255	905	1226
M _u	(k)	1781		2378		1860		1494
f _s ℓ non-comp	(ksi)	8.4	17.5	6.0	16.8	4.6	16.3	7.0
f _s ℓ (comp)	(ksi)	4.3		3.6		2.9		3.4
f _s ⁵ ₃ [M _ℓ + M _{Imp}]	(ksi)	24.0	16.0	19.9	18.4	19.2	18.6	21.7
f _s (Overload)	(ksi)	36.7	33.5	29.5	35.2	26.7	34.9	32.1
** f _s (Total)	(ksi)		43.6		45.8		45.4	
VR	(k)	50.3		51.8		51.1		47.7

* Compact section

** Braced non-compact and partially braced section

- I_s, S_s: Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total and Overload) due to non-composite dead loads (in⁴ and in³).
- I_c(n), S_c(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total and Overload) due to short-term composite live loads (in⁴ and in³).
- I_c(3n), S_c(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total and Overload) due to long-term composite (superimposed) dead loads (in⁴ and in³).
- Z: Plastic Section Modulus of the steel section in non-composite areas (in³).
- ℓ: Un-factored non-composite dead load (kips/ft.).
- M_ℓ: Un-factored moment due to non-composite dead load (kip-ft.).
- s_ℓ: Un-factored long-term composite (superimposed) dead load (kips/ft.).
- M_{sℓ}: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
- M_ℓ: Un-factored live load moment (kip-ft.).
- M_{Imp}: Un-factored moment due to impact (kip-ft.).
- M_a: Factored design moment (kip-ft.).
1.3 [M_ℓ + M_{sℓ} + 3/5 (M_ℓ + M_{Imp})]
- M_u: Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).
- f_s (Overload): Sum of stresses as computed from the moments below (ksi).
M_ℓ + M_{sℓ} + 3/5 (M_ℓ + M_{Imp})
- f_s (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).
1.3 [M_ℓ + M_{sℓ} + 3/5 (M_ℓ + M_{Imp})]
- VR: Maximum ℓ + impact horizontal shear range within the composite portion of the span for stud shear connector design (kips).

DESIGNED	PMH
CHECKED	MGB
DRAWN	PMH
CHECKED	BB

STEEL DETAILS 2 OF 2
STRUCTURE NO. 046-0144 (S.B.)
& STRUCTURE NO. 046-0145 (N.B.)

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SH-35	57	(46-2) HBR	KANKAKEE	558	306
SHEETS			CONTRACT NO. 66409		
SH-56			FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT		

GENERAL NOTES

- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 7/8 in. dia., holes 15/16 in. dia., unless otherwise noted.
- Calculated weight of Structural Steel:
 AASHTO M270 Gr50 = 454,830 lbs
 AASHTO M270 Gr36 = 54,680 lbs
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception of the exterior surfaces and the bottom of the bottom flange of fascia beams, masked off connection surfaces, field installed fasteners and damaged areas shall be touched up and finish coated in the field. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and the bottom of the bottom flange of fascia beams shall be Blue, Munsell No. 10B 3/6. See Special Provision for "Cleaning and Painting New Metal Structures."
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.
- The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.
- If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
- The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.
- Slipforming of the parapets is not allowed.

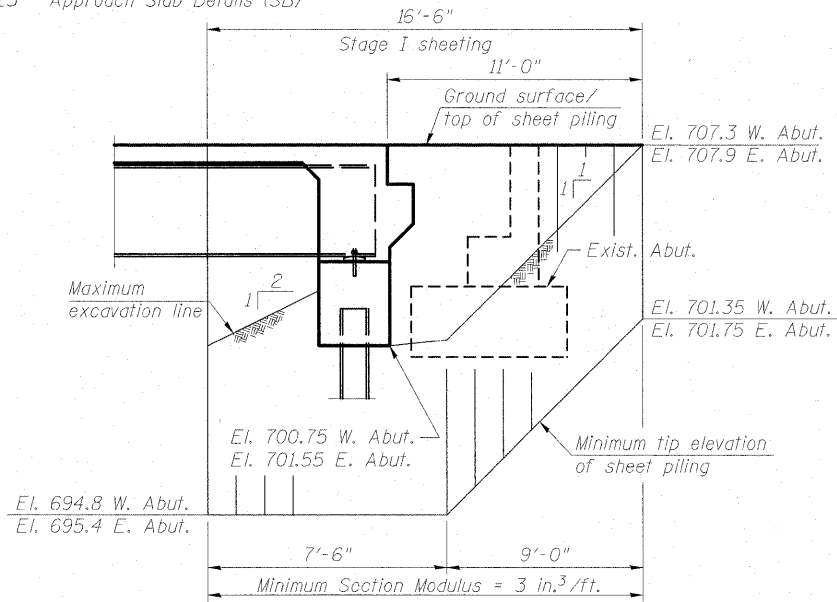
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

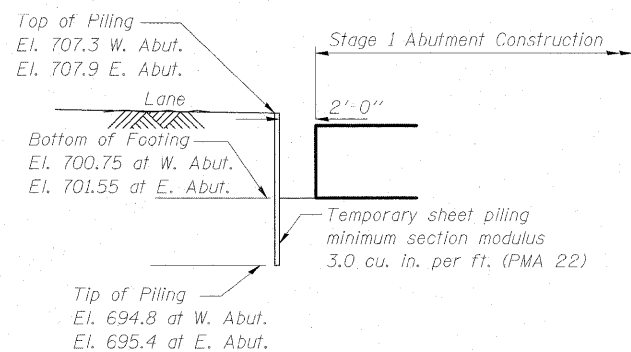
SR-1 General Plan and Elevation	SR-26 Approach Slab Plan (NB)
SR-2 General Notes & Total Bill of Material	SR-27 Approach Slab Details (NB)
SR-3 Construction Staging	SR-28 SB Framing Plan
SR-4 Footing Layout	SR-29 NB Framing Plan
SR-5 Top of Slab Elevations 1 of 5	SR-30 Steel Details
SR-6 Top of Slab Elevations 2 of 5	SR-31 Bearing Details
SR-7 Top of Slab Elevations 3 of 5	SR-32 East Abutment and Details (SB)
SR-8 Top of Slab Elevations 4 of 5	SR-33 East Abutment and Details (NB)
SR-9 Top of Slab Elevations 5 of 5	SR-34 West Abutment and Details (SB)
SR-10 Top of East Approach Slab Elevations (SB)	SR-35 West Abutment and Details (NB)
SR-11 Top of East Approach Slab Elevations (NB)	SR-36 East and West Abutment Removal
SR-12 Top of West Approach Slab Elevations (SB)	SR-37 Pier 1 (SB)
SR-13 Top of West Approach Slab Elevations (NB)	SR-38 Pier 1 (NB)
SR-14 Deck Plan and Section (SB)	SR-39 Pier 2 (SB)
SR-15 Deck Plan and Section (NB)	SR-40 Pier 2 (NB)
SR-16 Parapet Details	SR-41 Piers 1 and 2 Removal
SR-17 Deck Details and Bill of Material	SR-42 Temporary Concrete Barrier for Stage Construction
SR-18 Drainage System Details	SR-43 Bar Splicer Assembly and Mechanical Splicer Details
SR-19 Drainage Scupper, DS-II	SR-44 HP Pile Details
SR-20 Diaphragm at East Abutment (SB)	SR-45 Soil Boring Logs
SR-21 Diaphragm at East Abutment (NB)	SR-46 Soil Boring Logs
SR-22 Diaphragm at West Abutment (SB)	SR-47 Soil Boring and Rock Core Logs
SR-23 Diaphragm at West Abutment (NB)	SR-48 Soil Boring and Rock Core Logs
SR-24 Approach Slab Plan (SB)	
SR-25 Approach Slab Details (SB)	

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures No. 1	Each			1
Removal of Existing Structures No. 2	Each			1
Protective Shield	Sq Yd	1,751		1,751
Structure Excavation	Cu Yd		539	539
Concrete Structures	Cu Yd		1,184.0	1,184.0
Concrete Superstructure	Cu Yd	1,398.0		1,398.0
Bridge Deck Grooving	Sq Yd	3,958		3,958
Concrete Encasement	Cu Yd		19.0	19.0
Protective Coat	Sq Yd	4,415		4,415
Furnishing and Erecting Structural Steel	L Sum	0.47		0.47
Stud Shear Connectors	Each	16,698		16,698
Reinforcement Bars, Epoxy Coated	Pound	323,326	168,912	492,238
Bar Splicers	Each	1,711	448	2,159
Slope Wall 4 Inch	Sq Yd		148	148
Furnishing Steel Piles HP10x57	Ft		2,002	2,002
Driving Piles	Ft		2,002	2,002
Test Pile Steel HP10x57	Each		2	2
Pile Shoes	Each		52	52
Name Plates	Each	2		2
Elastomeric Bearing Assembly, Type I	Each		44	44
Anchor Bolts, 1"	Each		176	176
Geocomposite Wall Drain	Sq Yd		240	240
Bituminous Coated Aggregate SlopeWall 6"	Sq Yd		2,109	2,109
Braced Excavation	Cu Yd		1,224	1,224
Porous Granular Embankment, Special	Cu Yd		394	394
Drainage Scuppers, DS-II	Each	4		4
Drainage System	L Sum	1		1
Temporary Sheet Piling	Sq Ft		710	710
Pipe Underdrains for Structures 4"	Ft		353	353

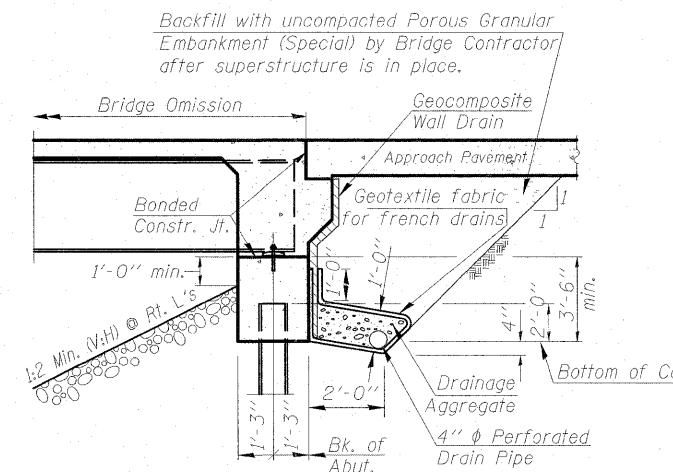


TEMPORARY SHEET PILING FRONT ELEVATION



TEMPORARY SHEET PILING SIDE ELEVATION

(Southbound piling shown, Northbound piling similar)



All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101)

SECTION THRU INTEGRAL ABUTMENT

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

STATION 325+93.10
BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RT. 57 SEC (46-2) VBR
LOADING HS20
STRUCTURE NO. 046-0146

NAME PLATE

(Southbound)
See Std. 515001

STATION 325+93.10
BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RT. 57 SEC (46-2) VBR
LOADING HS20
STRUCTURE NO. 046-0147

NAME PLATE

(Northbound)
See Std. 515001

GENERAL NOTES & TOTAL BILL OF MATERIAL
STRUCTURE NO. 046-0146 (S.B.)
& STRUCTURE NO. 046-0147 (N.B.)

DESIGNED	PMH
CHECKED	BB
DRAWN	PMH
CHECKED	BB

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SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SR-2	57	(46-2) VBR	KANKAKEE	558	329
CONTRACT NO. 66409					
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT					