

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

F.A.P. ROUTE 332 (IL 1)  
SECTION (12,B2)B-1

**BRIDGE REPLACEMENT  
WABASH COUNTY**

C-97-007-07

IL 1 OVER CRAWFISH CREEK

SHEET NO.	INDEX OF SHEETS
1	COVER SHEET
2	GENERAL NOTES AND STANDARDS
3-8A	SUMMARY OF QUANTITIES
9	ROADWAY TYPICAL SECTIONS & BUTT JOINT DETAIL
10-11	SCHEDULE OF QUANTITIES
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17	STAGE CONSTRUCTION DETAILS
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19-20	DETAILS
21-51	BRIDGE PLANS
52-57	EXISTING STRUCTURE PLANS
58-68	CROSS-SECTIONS

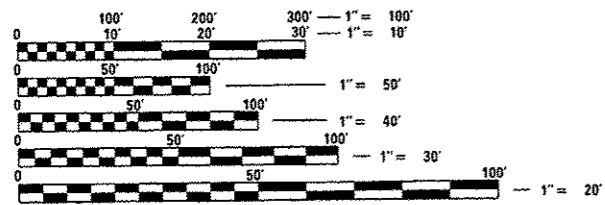
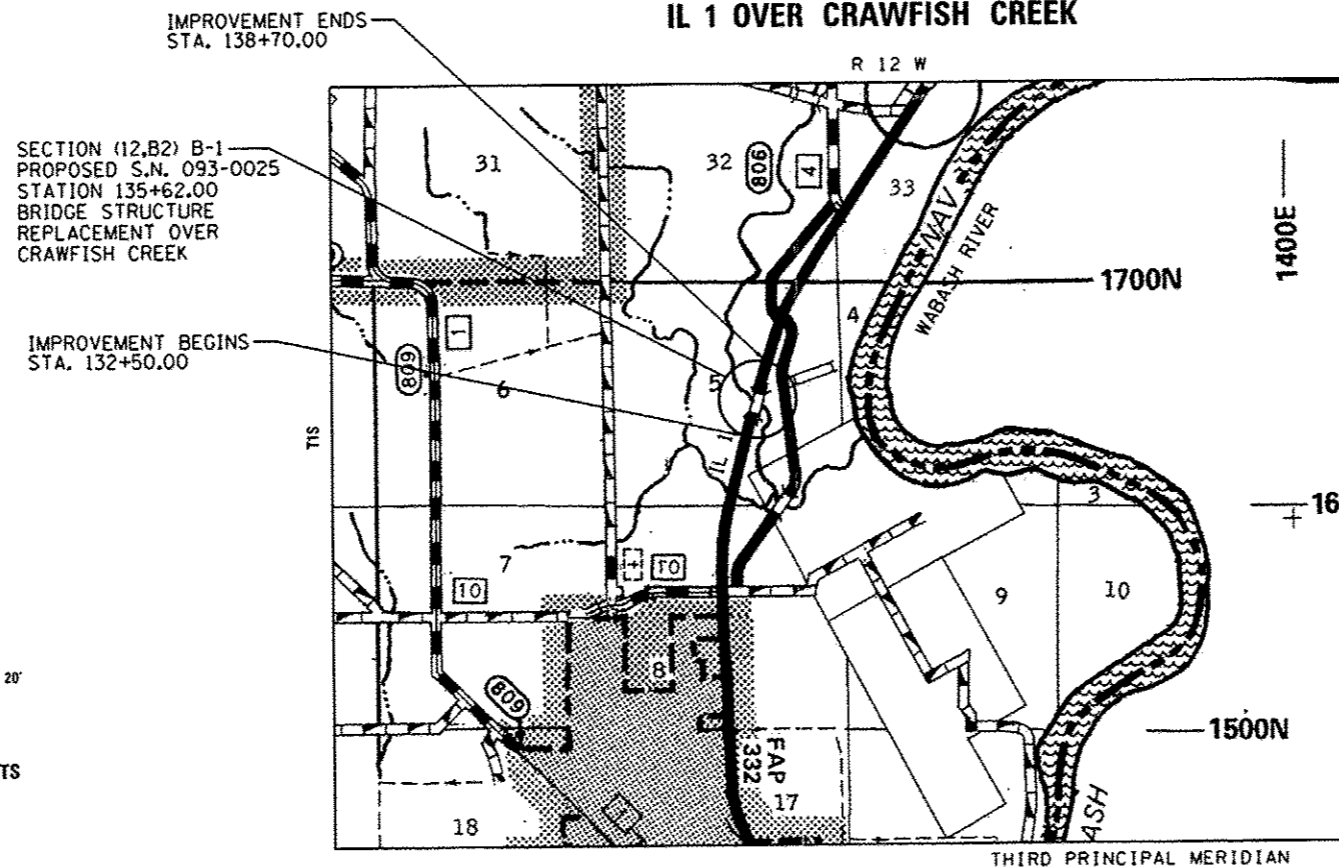
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12-B2)B-1	WABASH	68	1

X68+1=69

D-97-006-07



FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL  
 DESIGN SPEED: 60 MPH  
 POSTED SPEED: 55 MPH  
 ADT: 3450 (2010)  
 PV: 89.5%  
 SU: 5.5%  
 MU: 5.0%

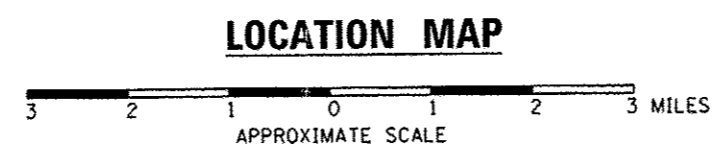


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: TOM RONAN  
(217) 342-8320  
TOWNSHIP: MOUNT CARMEL  
CONTRACT NO. 74219

DESIGN DESIGNATION  
N.A.



GROSS LENGTH = 620.00 FT. = 0.117 MI.  
NET LENGTH = 620.00 FT. = 0.117 MI.

PROFESSIONAL ENGINEER  
MICHAEL T. MATZKE  
062-038471  
STATE OF ILLINOIS

SIGNATURE  
June 5, 2014  
DATE

LIC. EXP. DATE: Nov. 30, 2015  
QUIGG ENGINEERING, INC.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED JUNE 12 20 14  
 Roger L. Drishell, P.E.  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

July 18 20 14  
 John D. Baranzelli, P.E.  
 ENGINEER OF DESIGN AND ENVIRONMENT

July 18 20 14  
 Omar Osman, P.E.  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**GENERAL NOTES**

- THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2012; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2014, AND THE SPECIAL PROVISIONS INCLUDED IN THIS PROPOSAL.
- THE PROPOSED PROJECT IS LOCATED ON ILLINOIS ROUTE 1 APPROXIMATELY 0.8 MILES NORTH OF MT. CARMEL IN WABASH COUNTY. THE WORK INCLUDED IN THIS SECTION CONSISTS OF A BRIDGE REPLACEMENT OVER CRAWFISH CREEK. ALSO INCLUDED ARE MILLING, PLACEMENT OF HOT-MIX ASPHALT LEVELING BINDER AND SURFACE COURSES, CONSTRUCTION OF APPROACH SLABS AND HOT-MIX ASPHALT SHOULDERS, GUARDRAIL REMOVAL AND REPLACEMENT, PAVEMENT MARKING, AND ANY OTHER WORK NECESSARY TO COMPLETE THIS SECTION.
- STRUCTURE NUMBER 093-0003 IS A THREE-SPAN BRIDGE THAT WILL BE REMOVED WHILE MAINTAINING TRAFFIC ON ILLINOIS ROUTE 1 UTILIZING STAGE CONSTRUCTION.
- THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.
- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- ALL SAWCUTTING OF EXISTING PAVEMENT SHALL BE CONSIDERED INCLUDED IN THE PAY ITEMS INVOLVED. THE MINIMUM SAW DEPTH IN THE PAVEMENT SHALL BE 1 1/2" UNLESS OTHERWISE NOTED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- THE THICKNESS OF HMA MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:  

HOT-MIX ASPHALT	112 LBS/SQ YD/IN
AGGREGATES	2.05 TONS/CU YD
BITUMINOUS MATERIALS (PRIME COAT):	
ON PAVEMENT	0.05 LBS/SQ FT
INTERMEDIATE LIFTS (FOG COAT)	0.025 LBS/SQ FT
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE FERTILIZED AND SEEDDED. SEEDING SHALL BE CLASS 2 ACCORDING TO THE APPLICABLE ARTICLES OF SECTION 250 OF THE STANDARD SPECIFICATIONS. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDDED WILL BE DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.
- EXISTING TRAFFIC BARRIER TERMINALS TO BE REMOVED SHALL BE PAID FOR AS GUARDRAIL REMOVAL.
- ALL ELEVATIONS IN THE PLANS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- TREES SHALL BE PRESERVED THROUGHOUT THIS SECTION EXCEPT AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. GENERALLY, TREES OUTSIDE THE CLEAR ZONE, AND WHICH DO NOT INTERFERE WITH CONSTRUCTION, SHALL NOT BE DISTURBED.

- FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.
- THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION FOR THE INITIAL OPENING OF THE COMPLETED STRUCTURE TO TWO LANE TRAFFIC AND ONE APPLICATION ON THE COMPLETED SURFACE COURSE.
- THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED FROM STOP BAR TO STOP BAR.
- THE CONTRACTOR SHALL PROVIDE INTERNET ACCESSIBILITY TO THE HMA PLANT QUALITY CONTROL LAB SO THAT HMA PLANT REPORTS CAN BE EMAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF ALL HOT-MIX ASPHALT ITEMS.
- ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC AND THE TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED OR COVERED.
- REMOVAL OF THE TEMPORARY CONCRETE BARRIER IS INCLUDED IN THE PAY ITEMS TEMPORARY CONCRETE BARRIER AND RELOCATE TEMPORARY CONCRETE BARRIER.
- THE PAY ITEM TEMPORARY RAMP HAS BEEN INCLUDED FOR THE CONSTRUCTION OF TEMPORARY RAMPS IN ACCORDANCE WITH ARTICLE 406.08 OF THE STANDARD SPECIFICATIONS. THE CONTRACT UNIT PRICE PER SQUARE YARD FOR TEMPORARY RAMP SHALL INCLUDE BOTH THE INSTALLATION AND THE REMOVAL OF THE RAMPS.
- THE TOP 4 IN. OF TOPSOIL SHALL BE STRIPPED FROM ALL AREAS WITHIN THE CONSTRUCTION LIMITS. THIS MATERIAL SHALL BE STOCKPILED AT A LOCATION APPROVED BY THE ENGINEER AND REPLACED AFTER MAJOR GRADING OPERATIONS ARE COMPLETED. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION.
- THE EXISTING FORESLOPES SHALL BE BENCHED AS SHOWN ON THE DETAILS SHEET PRIOR TO CONSTRUCTING THE PROPOSED FINISHED GRADE. THE ENGINEER WILL DETERMINE THE EXACT LOCATIONS AND APPLICATION OF THIS DETAIL. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION.
- THE HOT-MIX ASPHALT SHOULDERS SHALL BE MILLED TO THE SAME DEPTH AS ADJACENT ROADWAY TO FACILITATE CONSTRUCTION OF HOT-MIX ASPHALT SURFACE COURSE.
- ALL WORK NECESSARY TO ATTACH THE PIPE DRAIN TO THE ABUTMENT UNDERDRAIN PIPE, TRENCHING IN THE PIPE DRAINS AND INSTALLING THE PIPE DRAIN TO THE CONCRETE HEADWALLS IS INCLUDED IN THE PAY ITEM FOR PIPE DRAINS OF THE DIAMETER SPECIFIED.
- POTHOLES IN THE EXISTING PAVEMENT SHALL BE PATCHED AS DIRECTED BY THE ENGINEER. HOT-MIX ASPHALT FOR PATCHING POTHOLES (COLD MIX) IS INCLUDED IN THE CONTRACT FOR PATCHING THE PAVEMENT ON ILLINOIS ROUTE 1. THE QUANTITY SHOWN IN THE PLANS IS AN ESTIMATE ONLY. THE LOCATIONS AND QUANTITIES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- BASED ON CURRENT INFORMATION, THE EXISTING PAVEMENT SECTION CONSISTS OF 7" HMA OVER 9" CONCRETE PAVEMENT. ASSUME A PAVEMENT REMOVAL THICKNESS OF 16" FOR THE PAY ITEM PAVEMENT REMOVAL AND 7" FOR THE PAY ITEM PAVED SHOULDER REMOVAL.
- DUE TO THE PRESENCE OF INDIANA BATS, NO TREES MAY BE REMOVED BETWEEN MARCH 31 AND OCTOBER 1 OF ANY YEAR.

**LIST OF ILLINOIS DOT 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
420401-10	BRIDGE APPROACH PAVEMENT CONNECTOR
442201-03	CLASS C & D PATCHES
515001-03	NAME PLATE FOR BRIDGES
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-12	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
667101-02	PERMANENT SURVEY MARKERS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-13	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701901-03	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
780001-04	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

**HMA MIXTURES REQUIREMENTS**

APPLICATION(S):	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	HOT-MIX ASPHALT SURFACE COURSE, IL 19.0, N70	HOT-MIX ASPHALT SHOULDERS	HOT-MIX ASPHALT SHOULDERS	HOT-MIX ASPHALT SHOULDERS
MIXTURE USE(S):	SURFACE COURSE, (1 1/2")	LEVEL BINDER (MACHINE METHOD 3/4")	BRIDGE APPROACH CONNECTOR (FLEXIBLE)	HMA SHOULDERS (BOTTOM LIFT)	HMA SHOULDERS (TOP LIFT)	HMA BASE COURSE WIDENING/PAVEMENT PATCHING
AC/PG:	PG64-22	PG64-22	PG64-22	PG64-22	PG64-22	PG64-22
DESIGN AIR VOIDS:	4.0% AT N DESIGN = 70	4.0% AT N DESIGN = 70	4.0% AT N DESIGN = 70	4.0% AT N DESIGN = 30	4.0% AT N DESIGN = 30	4.0% AT N DESIGN = 70
MIXTURE COMPOSITION:	IL-9.5	IL-9.5	IL-19.0	IL-19.0L	IL-9.5L	IL-19.0
FRICTION AGGREGATE:	MIXTURE C	N/A	N/A	N/A	MIXTURE C	N/A

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		100% STATE ROADWAY 0004 RURAL	100% STATE BRIDGE 0011 SN 093-0025
20100500	TREE REMOVAL, ACRES	ACRE	0.5	0.5	
20200100	EARTH EXCAVATION	CU YD	290	290	
20400800	FURNISHED EXCAVATION	CU YD	100	100	
25100630	EROSION CONTROL BLANKET	SQ YD	4840	4840	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	300	300	
28000305	TEMPORARY DITCH CHECKS	FOOT	129	129	
28000400	PERIMETER EROSION BARRIER	FOOT	1738	1738	
28100107	STONE RIPRAP, CLASS A4	SQ YD	1805		1805
28200200	FILTER FABRIC	SQ YD	1805		1805
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	891	891	
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	102	102	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	240	240	
40600990	TEMPORARY RAMP	SQ YD	266	266	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		100% STATE ROADWAY 0004 RURAL	100% STATE BRIDGE 0011 SN 093-0025
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	148	148	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	52	52	
44000100	PAVEMENT REMOVAL	SQ YD	316	316	
44004250	PAVED SHOULDER REMOVAL	SQ YD	262	262	
44201839	CLASS D PATCHES, TYPE II, 16 INCH	SQ YD	12	12	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	283	283	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	800		800
50200300	COFFERDAM EXCAVATION	CU YD	520		520
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1		1
50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1		1
50300100	FLOOR DRAINS	EACH	16		16
50300225	CONCRETE STRUCTURES	CU YD	318		318

FILE NAME =	USER NAME = staffanrk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
or:\pe_work\pwidot\staffanrk\02122332\07	4219-shs-eoq.dgn	DRAWN -	REVISED -					332	(12.8218-1)	WABASH	68	4
Default	PLOT SCALE = 1/20.0000 ' / in.	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	
	PLOT DATE = 6/12/2014	DATE -	REVISED -								CONTRACT NO. 74219	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		100% STATE ROADWAY 0004 RURAL	100% STATE BRIDGE 0011 SN 093-0025
50300255	CONCRETE SUPERSTRUCTURE	CU YD	348.9		348.9
50300260	BRIDGE DECK GROOVING	SQ YD	923		923
50300280	CONCRETE ENCASEMENT	CU YD	12		12
50300300	PROTECTIVE COAT	SQ YD	1160		1160
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1
50500505	STUD SHEAR CONNECTORS	EACH	3978		3978
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	112120		112120
50800515	BAR SPLICERS	EACH	1018		1018
51201900	FURNISHING STEEL PILES HP14X89	FOOT	1320		1320
51202305	DRIVING PILES	FOOT	620		620
51203900	TEST PILE STEEL HP14X89	EACH	2		2
51500100	NAME PLATES	EACH	1		1
52000110	PREFORMED JOINT STRIP SEAL	FOOT	92		92
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	12		12

FILE NAME =	USER NAME = staffennk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\ps_work\pwsdot\staffennk\08122332\07	4219-ehf-a0q.dgn	DRAWN -	REVISED -			332	(12,B218-1)	WABASH	68	5	
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Default	PLOT DATE = 8/12/2014	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO STA.

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		100% STATE ROADWAY 0004 RURAL	100% STATE BRIDGE 0011 SN 093-0025
52100510	ANCHOR BOLTS, 3/4"	EACH	48		48
58700300	CONCRETE SEALER	SQ FT	994		994
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	54		54
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4	
60100905	PIPE DRAINS 4"	FOOT	110	110	
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, FOOT POSTS	6 FOOT	462.5	462.5	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	407	407	
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1	1	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	13	13	
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	

\* SPECIALTY ITEMS

FILE NAME =	USER NAME = staffennk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 8/12/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
				100% STATE ROADWAY 0004 RURAL	100% STATE BRIDGE 0011 SN 093-0025
CODE NO	ITEM	UNIT			
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	8	8	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	360	360	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2112	2112	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	120	120	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	925	925	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	875	875	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	

FILE NAME #	USER NAME # astaffanmk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT SCALE # 1200.0000 / 1 in.	CHECKED -	REVISED -	CONTRACT NO. 74219								
Default	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								
						SCALE:	SHEET	OF	SHEETS	STA.	TO STA.

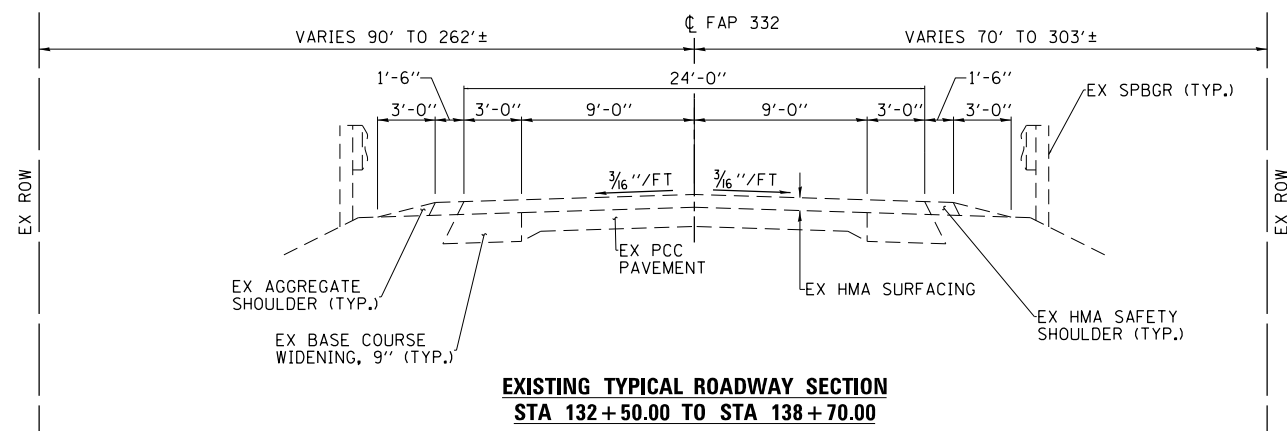
SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		100% STATE ROADWAY 0004 RURAL	100% STATE BRIDGE 0011 SN 093-0025
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2112	2112	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	5	5	
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	3	3	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	9	9	
* 78200520	BARRIER WALL MARKERS, TYPE B	EACH	5	5	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	420	420	
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.9	0.9	
X4060110	BITUMINOUS MATERIALS (PRIME COAT)	POUND	878	878	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	430	430	
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	141	141	
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28	28	
Z0005010	HOT-MIX ASPHALT FOR PATCHING POTHOLES (COLD MIX)	TON	3	3	

13 \*SPECIALTY ITEMS

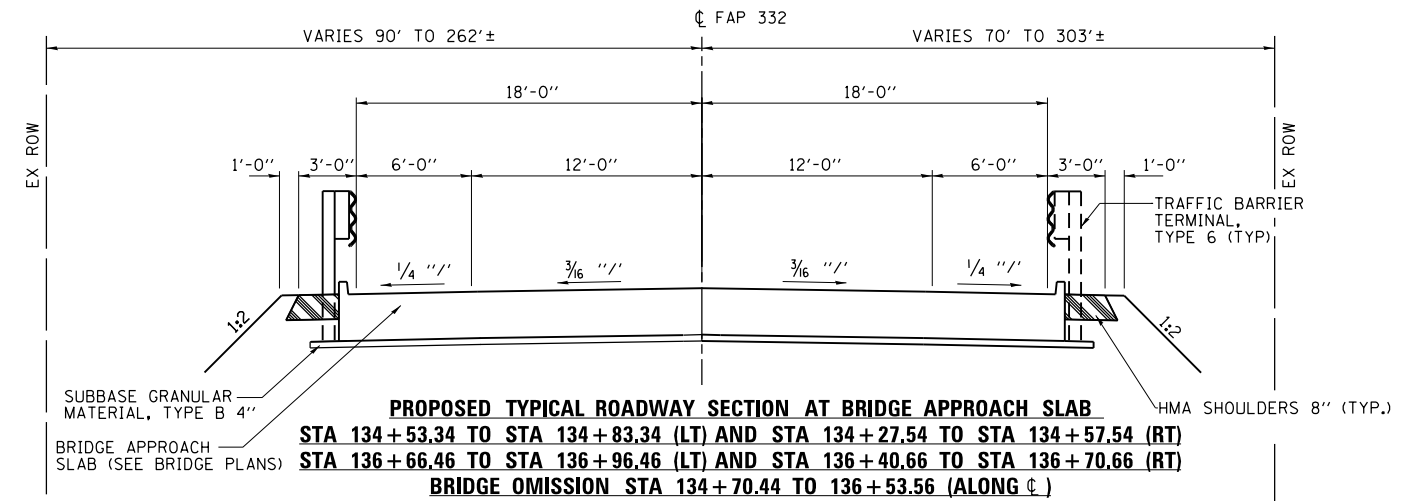
FILE NAME =	USER NAME = staffennk	DESIGNED -	REVISIONS -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\p\work\p\uidot\staffennk\02122332\07	*219-sht-eoq.dgn	DRAWN -	REVISIONS -			332	(12.B2)B-1	WABASH	68	8	
	PLOT SCALE = 1/8" = 100.0000' / 1"	CHECKED -	REVISIONS -			SCALE: SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 74219			
Default	PLOT DATE = 8/12/2014	DATE -	REVISIONS -			ILLINOIS FED. AID PROJECT					



SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		100% STATE ROADWAY 0004 KURAL	100% STATE BRIDGE 0011 SN 093-0025
Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	4		4
Z0026407	TEMPORARY SHEET PILING	SO FT	380		380
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	190		190
Z0065000	SETTING PILES IN ROCK	EACH	20		20
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SO FT	100		100

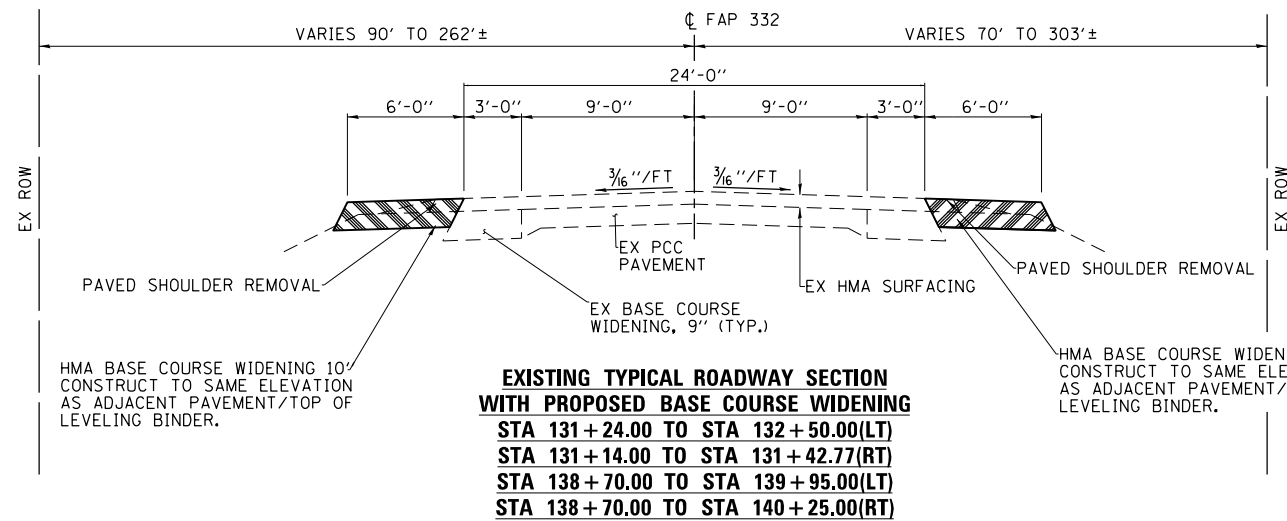


**EXISTING TYPICAL ROADWAY SECTION  
STA 132+50.00 TO STA 138+70.00**

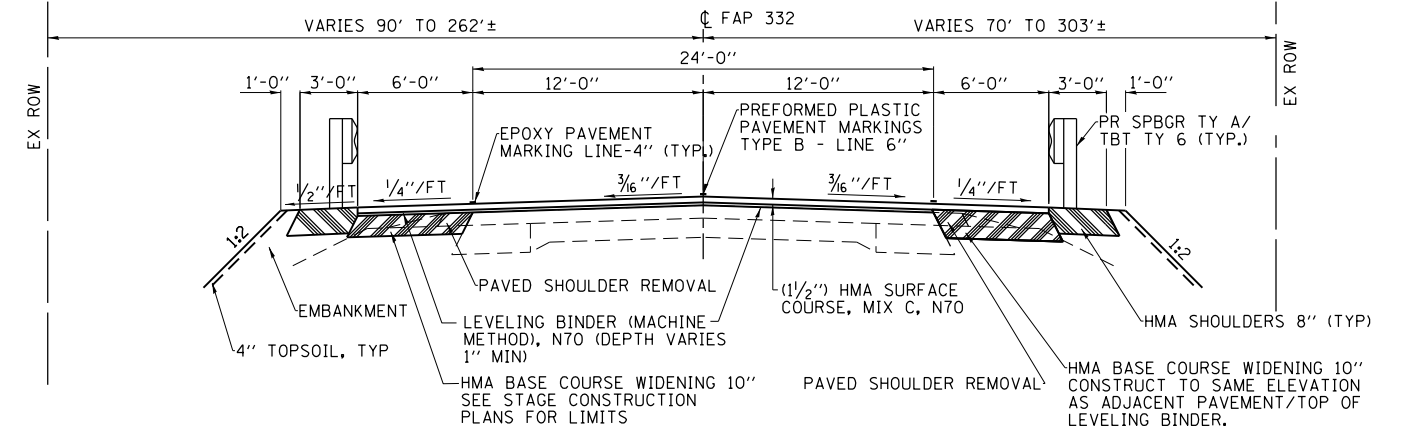


**PROPOSED TYPICAL ROADWAY SECTION AT BRIDGE APPROACH SLAB  
STA 134+53.34 TO STA 134+83.34 (LT) AND STA 134+27.54 TO STA 134+57.54 (RT)  
STA 136+66.46 TO STA 136+96.46 (LT) AND STA 136+40.66 TO STA 136+70.66 (RT)  
BRIDGE OMISSION STA 134+70.44 TO STA 136+53.56 (ALONG C)**

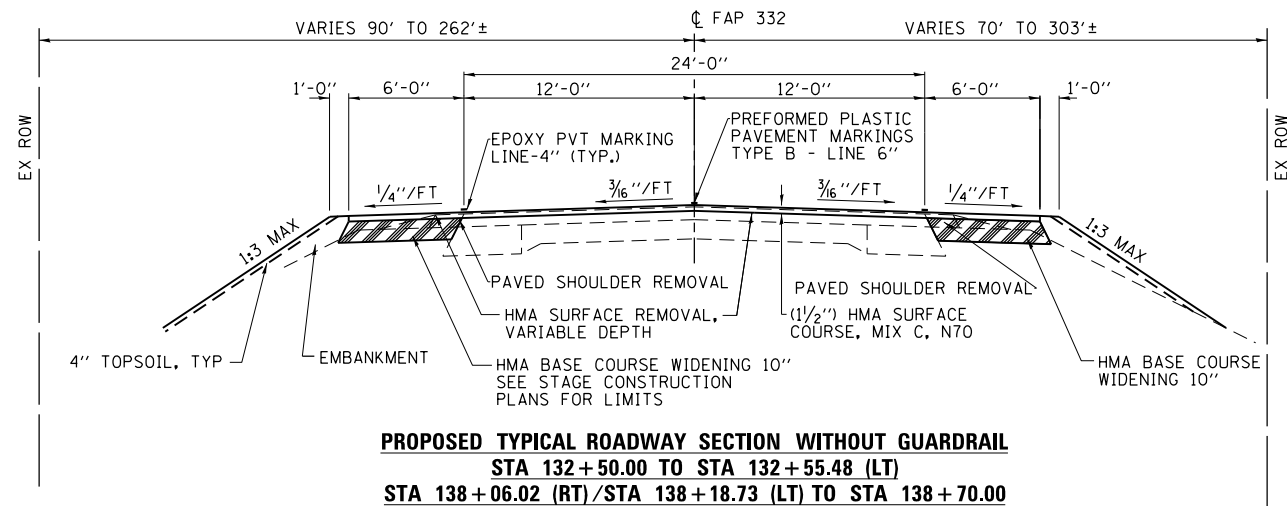
**BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)  
(SEE STD. 420401 FOR DETAIL INFORMATION)  
STA 134+47.34 TO STA 134+53.34 (LT) AND STA 134+21.54 TO STA 134+27.54 (RT)  
STA 137+96.46 TO STA 137+02.46 (LT) AND STA 136+70.66 TO STA 136+76.66 (RT)**



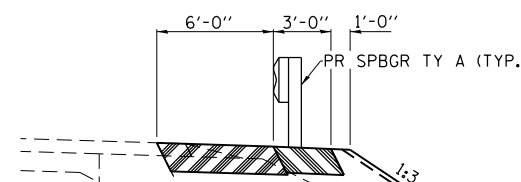
**EXISTING TYPICAL ROADWAY SECTION  
WITH PROPOSED BASE COURSE WIDENING  
STA 131+24.00 TO STA 132+50.00(LT)  
STA 131+14.00 TO STA 131+42.77(RT)  
STA 138+70.00 TO STA 139+95.00(LT)  
STA 138+70.00 TO STA 140+25.00(RT)**



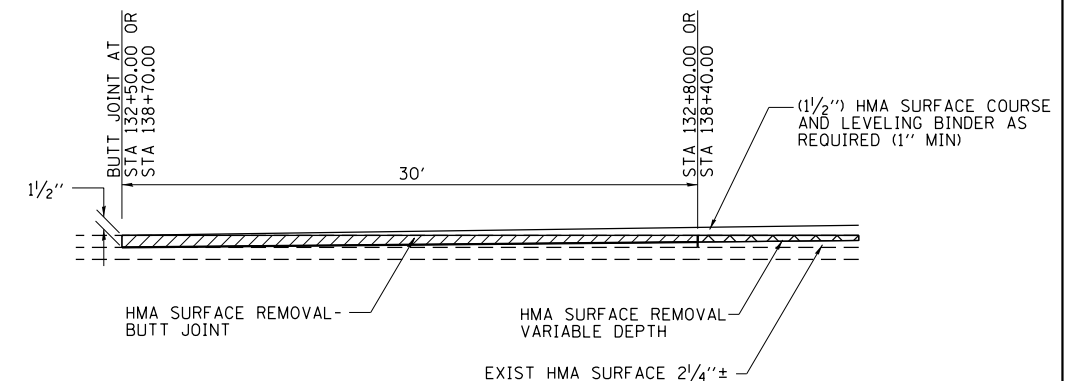
**PROPOSED TYPICAL ROADWAY SECTION WITH GUARDRAIL  
STA 132+55.48 TO STA 134+47.34 LT  
STA 133+42.77 TO STA 134+21.54 RT  
STA 137+02.46 TO STA 138+18.73 LT  
STA 136+76.66 TO STA 138+06.02 RT**



**PROPOSED TYPICAL ROADWAY SECTION WITHOUT GUARDRAIL  
STA 132+50.00 TO STA 132+55.48 (LT)  
STA 138+06.02 (RT)/STA 138+18.73 (LT) TO STA 138+70.00**



**PROPOSED TYPICAL SHOULDER SECTION  
STA 131+42.77 TO STA 132+50.00 RT**



**BUTT JOINT DETAIL**

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- HOT-MIX ASPHALT SURFACE REMOVAL - VARIABLE DEPTH

FILE NAME = D774219-sh-typical.dgn	USER NAME = rhaasis	DESIGNED - CMM	REVISED -
		DRAWN - TWK	REVISED -
		CHECKED - MTM	REVISED -
		DATE - 1/24/2014	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY TYPICAL SECTIONS &  
BUTT JOINT DETAIL**

SCALE: 1/2"=1'-0" SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION (12,B2)B-1	COUNTY WABASH	TOTAL SHEETS 68	SHEET NO. 9
CONTRACT NO. 74219				
ILLINOIS FED. AID PROJECT				

WORK ZONE AND PAVEMENT MARKING REMOVAL SCHEDULE			
LOCATION	PAVEMENT MARKING DESCRIPTION	WORK ZONE PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL
		SQ FT	SQ FT
SHORT TERM PAVEMENT MARKING	SKIP DASH C	70	
SHORT TERM PAVEMENT MARKING	EDGE LINE	50	
TEMPORARY PAVEMENT MARKING	SKIP DASH C		
TEMPORARY PAVEMENT MARKING	EDGE LINE		
STA 129+34 TO 131+24	SKIP DASH C		25
STA 131+04 TO 132+50	EAST EDGE LINE		49
STA 131+50 TO 139+72	WEST EDGE LINE		274
STA 138+70 TO 140+10	EAST EDGE LINE		47
STA 139+95 TO 141+79	SKIP DASH C		25
	TOTALS	120	420

PAVEMENT MARKING SCHEDULE				
LOCATION	DESCRIPTION	SHORT-TERM PAVEMENT MARKING	PAINT PAVEMENT MARKING - LINE	TEMPORARY PAVEMENT MARKING - LINE
		①	4"	4"
		FOOT	FOOT	FOOT
STA 129+34 TO 141+79	YELLOW SKIP-DASH CENTERLINE	208	320	320
STA 131+04 TO 140+25	EAST WHITE EDGE LINE	80	921	921
STA 131+24 TO 139+95	WEST WHITE EDGE LINE	72	871	871
	TOTALS	360	2112	2112

① INCLUDES 2 APPLICATIONS

PAVEMENT MARKERS SCHEDULE		
LOCATION	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	RAISED REFLECTIVE PAVEMENT MARKER
	EACH	EACH
NORTH APPROACH		2
SOUTH APPROACH		3
BRIDGE	3	
	TOTALS	5

BASE COURSE SCHEDULE	
LOCATION	HMA BASE COURSE WIDENING 10"
	SQ YD
STA 131+14 TO 134+23.94, RT	207
STA 131+24 TO 134+73.98, LT	229
STA 136+45.98 TO 139+95 LT	224
STA 136+79.06 TO 140+25, RT	231
	TOTAL
	891

GUARDRAIL SCHEDULE								
LOCATION	TRAFFIC BARRIER TERMINAL		STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	GUARDRAIL MARKERS, TYPE A	BARRIER WALL MARKERS, TYPE B	TERMINAL MARKER, DIRECT APPLIED	GUARDRAIL REMOVAL	
	TYPE 6	TYPE 1 (SPECIAL) TANGENT						
	EACH	EACH						
NE QUADRANT	1	1	65.625	2	2	1	101	
SE QUADRANT	1	1	215.625	4		1	102	
NW QUADRANT	1	1	53.125	1	3	1	102	
SW QUADRANT	1	1	128.125	2		1	102	
	TOTALS	4	4	462.5	9	5	4	407

HMA SURF REMOVAL AND TEMP RAMP SCHEDULE			
LOCATION	HMA SURF REMOVAL VARIABLE DEPTH	HMA SURF REMOVAL BUTT JOINT	TEMPORARY RAMP
	SQ YD	SQ YD	SQ YD
STA 132+50 TO 132+80		120	20
STA 132+80 TO 133+28.85	196		
STA 137+81.67 TO 138+40	234		
STA 138+40 TO 138+70		120	20
NORTH BRIDGE APPROACH			103
SOUTH BRIDGE APPROACH			123
	TOTALS	430	266

REMOVAL SCHEDULE		
LOCATION	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL
	SQ YD	SQ YD
STA 134+34.44 TO 134+64.00	113	
STA 136+36.00 TO 136+89.56	203	
STA 131+14 TO 134+23.94, RT		64
STA 131+24 TO 134+73.98, LT		65
STA 136+45.98 TO 139+95, LT		67
STA 136+79.06 TO 140+25, RT		66
	TOTALS	262

PAVING SCHEDULE					
LOCATION	BITUMINOUS MATERIALS (PRIME COAT)	BRIDGE APPR PVMT CONNECTOR (FLEXIBLE)	HMA SURFACE COURSE, MIX "C", N70	HMA SHOULDERS 8"	LEVELING BINDER (MACHINE METHOD), N70
	POUND	SQ YD	TON	SQ YD	TON
STA 132+50 TO 134+40.44	459	26	74		63
STA 136+83.56 TO 138+70	419	26	74		39
STA 131+26.77 TO 134+48.17				104	
STA 132+39.48 TO 134+73.38				75	
STA 136+50.62 TO 138+22.02				54	
STA 136+75.83 TO 138+34.73				50	
	TOTALS	878	148	283	102



USER NAME = steffenmk	DESIGNED - ELH	REVISED -
ESCA PROJECT NO. 933.14	DRAWN - HAS/JLF	REVISED -
PLOT SCALE = 0.1667' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 6/12/2014 11:33:06 AM	DATE - 06/09/14	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	10
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 74219	

EARTHWORK SCHEDULE						
LOCATION	SUITABLE EARTH EXCAVATION	SUITABLE EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	SUITABLE INCIDENTAL EXCAVATION MATERIAL	SUITABLE INCIDENTAL EXC. MATERIAL ADJUSTED FOR SHRINKAGE	EMBANKMENT (NOT A PAY ITEM)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
NE QUADRANT CUTS & FILLS	60	45			100	-55
SE QUADRANT CUTS & FILLS	120	90			890	-800
NW QUADRANT CUTS & FILLS	60	45			120	-75
SW QUADRANT CUTS & FILLS	50	37			100	-63
RIPRAP			400	300		+300
STRUCTURE EXCAVATION			800	600		+600
TOTALS	290	217	1200	900	1210	-93

TREE REMOVAL SCHEDULE	
LOCATION	TREE REMOVAL, ACRES
NE QUADRANT	0.07
SE QUADRANT	0.30
NW QUADRANT	0.06
SW QUADRANT	0.06
TOTAL	0.50

**NOTES:**

1. EXCAVATION USED AS EMBANKMENT = (SUITABLE EARTH EXCAVATION + SUITABLE INCIDENTAL EXCAVATION)\*0.75

ABUTMENT DRAINAGE SCHEDULE		
LOCATION	CONCRETE HEADWALLS FOR PIPE DRAINS	PIPE DRAINS 4"
	EACH	FOOT
NORTH ABUTMENT	2	55
SOUTH ABUTMENT	2	55
TOTALS	4	110

EROSION CONTROL & SEEDING SCHEDULE					
LOCATION	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	TEMPORARY EROSION CONTROL SEEDING (3 APPLICATIONS)	EROSION CONTROL BLANKET	SEEDING CLASS 2 (SPECIAL)
	FOOT	FOOT	POUND	SQ YD	ACRE
NE QUADRANT	25	474	51	823	0.17
SE QUADRANT	57	424	150	2420	0.40
NW QUADRANT	25	375	48	774	0.16
SW QUADRANT	22	465	51	823	0.17
TOTALS	129	1738	300	4840	0.9



USER NAME = steffenmk  
 ESCA PROJECT NO. 933.14  
 PLOT SCALE = 0.1667" / 1" = 1/6"  
 PLOT DATE = 6/12/2014 11:37:06 AM

DESIGNED - ELH  
 DRAWN - HAS/JLF  
 CHECKED - ELH  
 DATE - 06/09/14

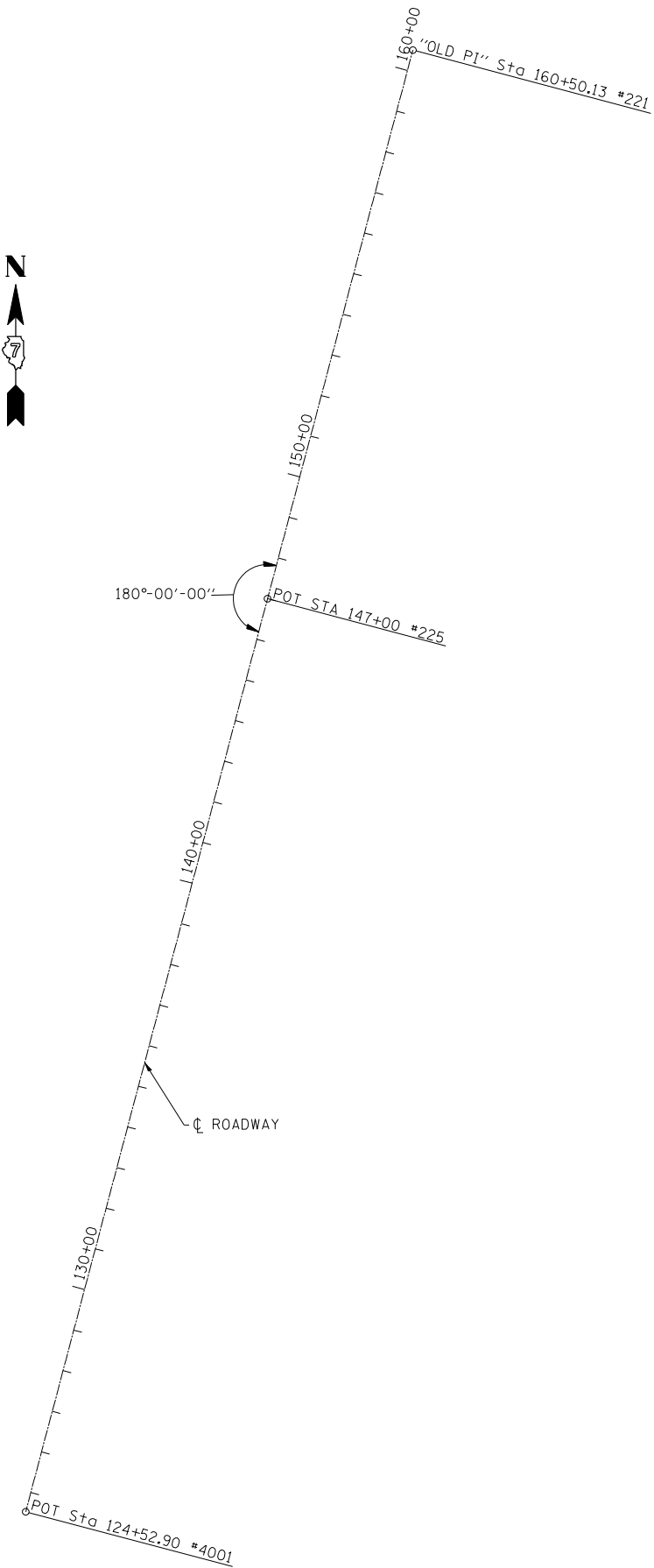
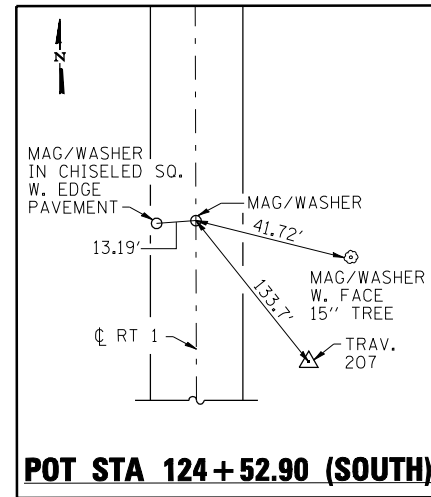
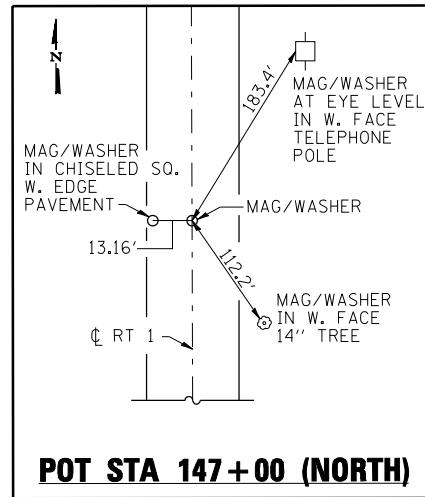
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	11
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 74219	



**BENCHMARK DATA**

- BENCHMARK 313 CHISELED SQ. ON SW CORNER OF BRIDGE  
ELEVATION 410.1238
- BENCHMARK 314 CHISELED SQ. ON NE CORNER OF BRIDGE  
ELEVATION 410.1168

PRINT DRIVER = LUD-ER-BA-011  
 SCALE NAME = PLOT  
 FILE NAME = D:\2014\147+00\147+00.dwg



USER NAME = has	DESIGNED - ELH	REVISED -
ESCA PROJECT NO. 933.14	DRAWN - JLF	REVISED -
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PLOT DATE = 6/10/2014 8:39:38 AM	DATE - 06/09/14	REVISED -

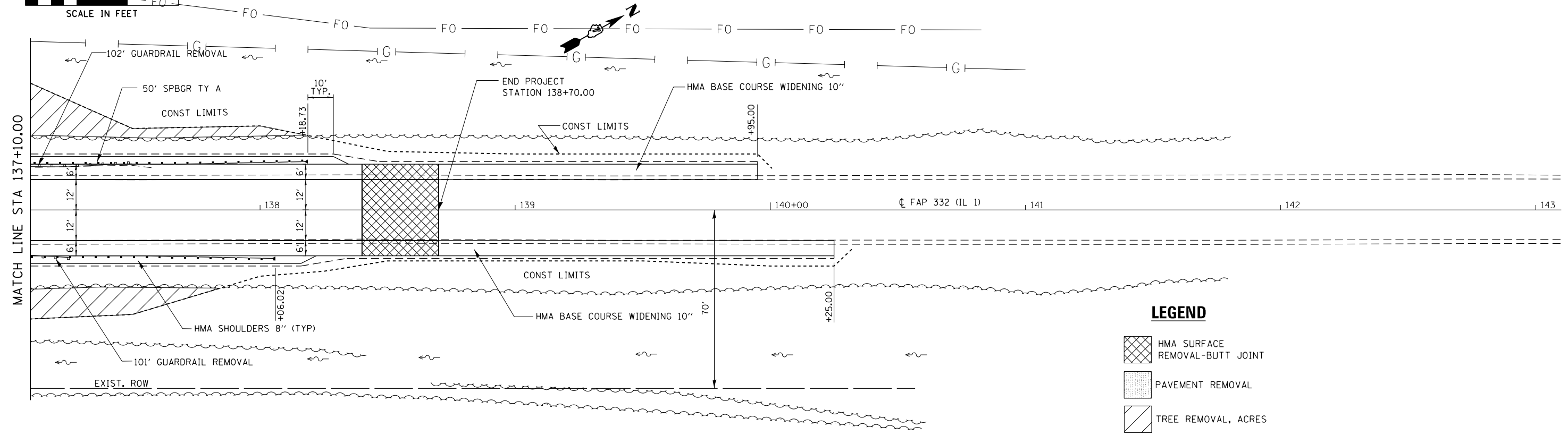
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES AND BENCHMARKS**

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	12
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 74219	



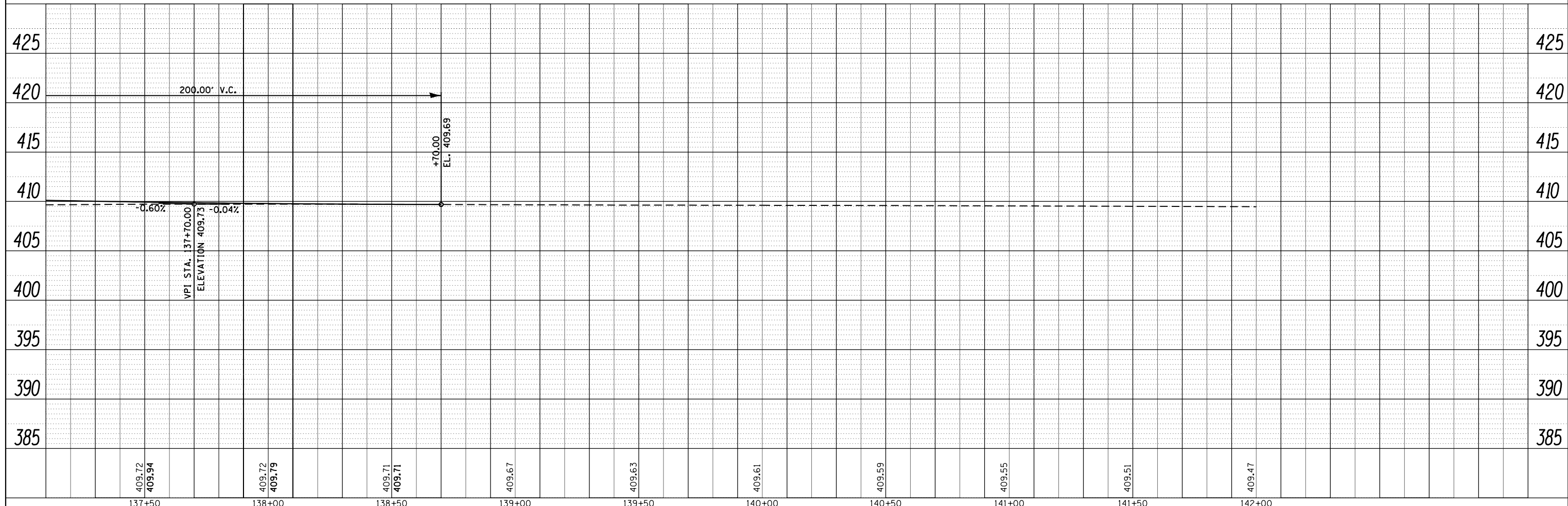


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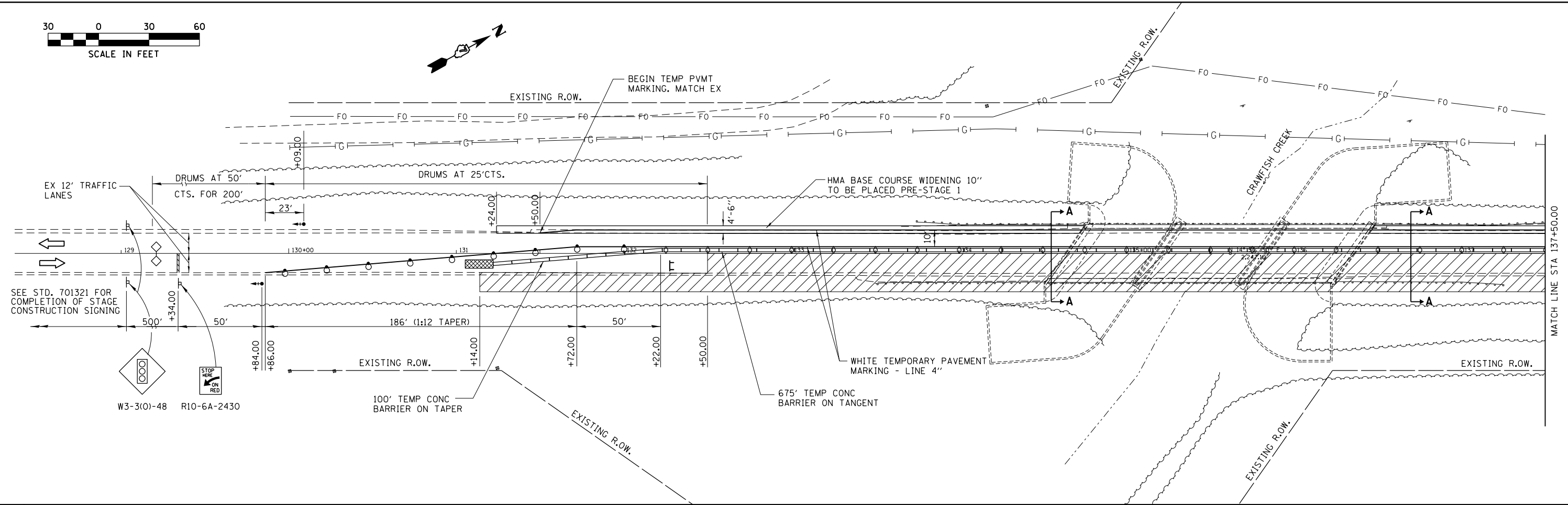
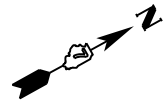
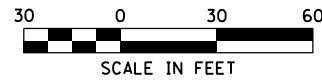
- HMA SURFACE REMOVAL-BUTT JOINT
- PAVEMENT REMOVAL
- TREE REMOVAL, ACRES

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
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PROFILE	SURVEYED	DATE
	PLOTTED	
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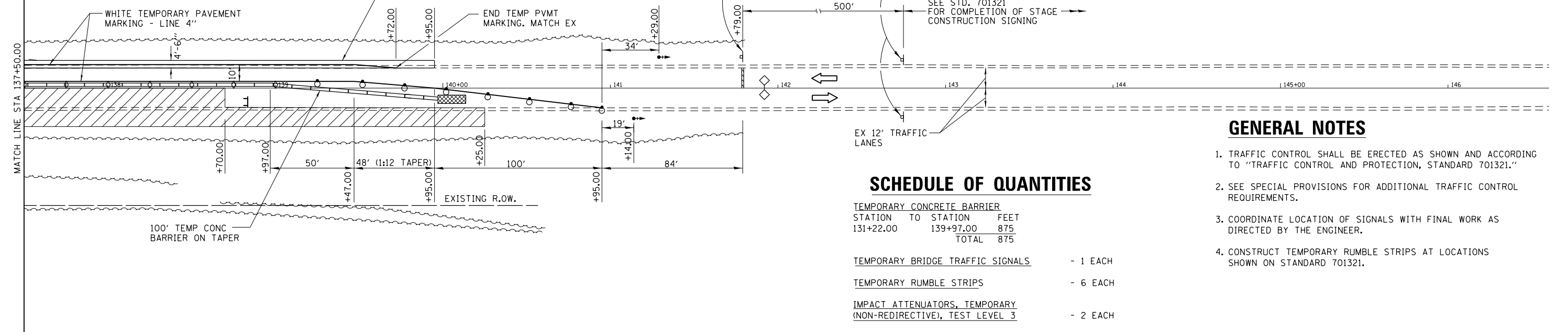


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	PLOT SCALE = 48.0000' / in.	CHECKED - MTM	REVISIED -			SCALE:	SHEET NO. 2 OF 2 SHEETS	STA. 137+10.00 TO STA. 143+00.00	CONTRACT NO. 74219		ILLINOIS FED. AID PROJECT	
	PLOT DATE = 6/4/2014	DATE = 6/4/2014	REVISIED -									



**LEGEND**

- WORK AREA
- SIGN
- TYPE III BARRICADE
- TRAFFIC SIGNAL
- DETECTOR LOOPS
- IMPACT ATTENUATOR
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- TEMPORARY RUMBLE STRIP
- DOUBLE VERTICAL PANEL
- CRYSTAL, BIDIRECTIONAL BARRIER WALL / GUARDRAIL MARKER



**SCHEDULE OF QUANTITIES**

TEMPORARY CONCRETE BARRIER	
STATION TO STATION	FEET
131+22.00	139+97.00
	875
	TOTAL
	875
TEMPORARY BRIDGE TRAFFIC SIGNALS	
	- 1 EACH
TEMPORARY RUMBLE STRIPS	
	- 6 EACH
IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	
	- 2 EACH

**GENERAL NOTES**

1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
4. CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.

FILE NAME =	USER NAME = steffenmk	DESIGNED - CMM	REVISED -
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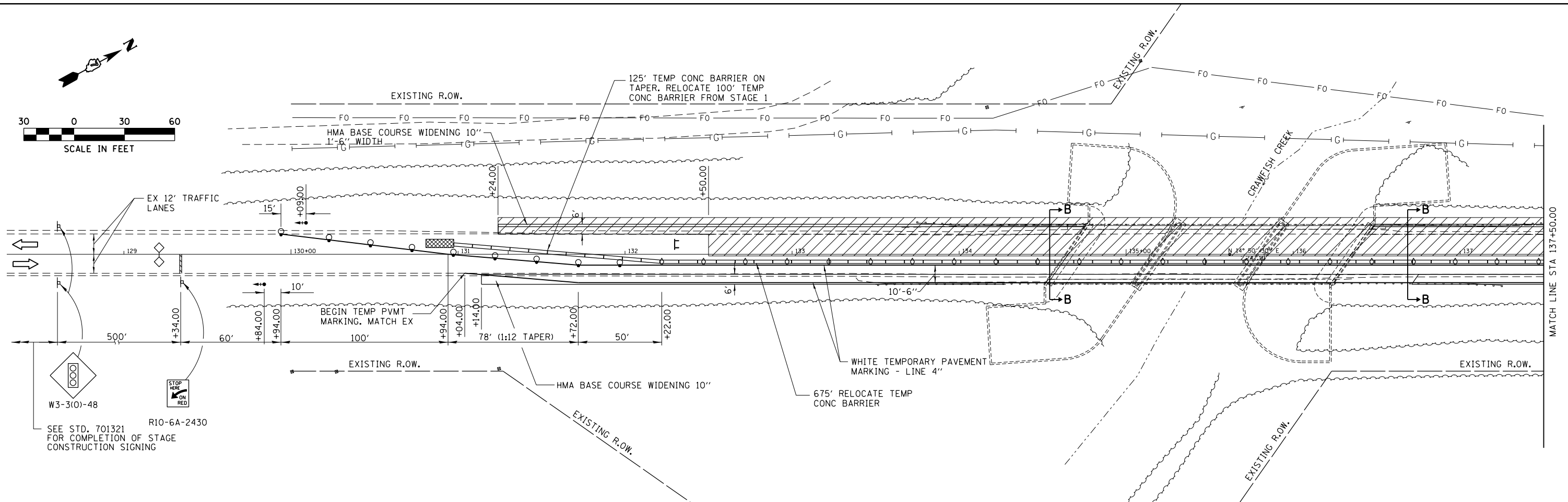
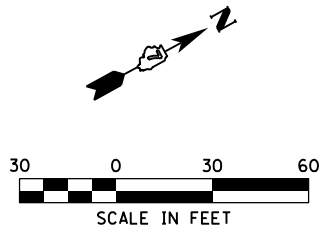
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION  
STAGE 1

SCALE: 1"=30' SHEET NO. 1 OF 2 SHEETS STA. 128+25.00 TO STA. 147+00.00

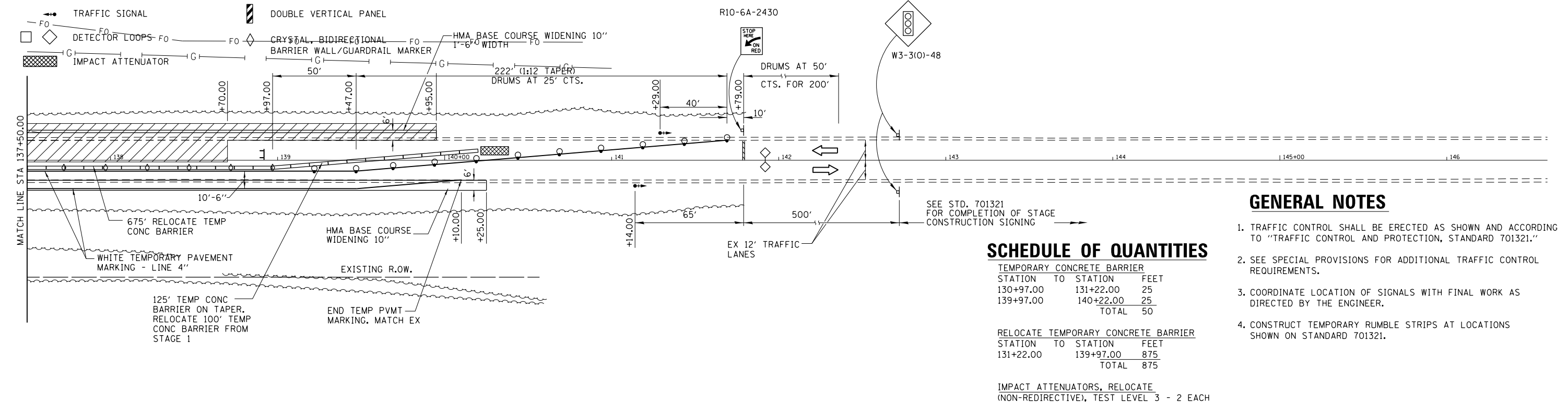
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	15
CONTRACT NO. 74219			ILLINOIS FED. AID PROJECT	





**SYMBOLS**

- WORK AREA
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- SIGN
- TEMPORARY CONCRETE BARRIER
- TYPE III BARRICADE
- TEMPORARY RUMBLE STRIP
- TRAFFIC SIGNAL
- DOUBLE VERTICAL PANEL
- DETECTOR LOOPS
- CRYSTAL BIDIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
- IMPACT ATTENUATOR



**GENERAL NOTES**

1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
4. CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.

**SCHEDULE OF QUANTITIES**

TEMPORARY CONCRETE BARRIER		
STATION TO	STATION	FEET
130+97.00	131+22.00	25
139+97.00	140+22.00	25
	TOTAL	50

RELOCATE TEMPORARY CONCRETE BARRIER		
STATION TO	STATION	FEET
131+22.00	139+97.00	875
	TOTAL	875

IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 - 2 EACH

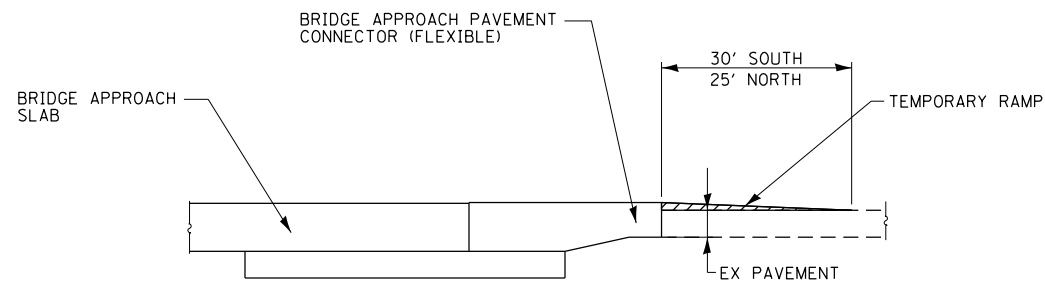
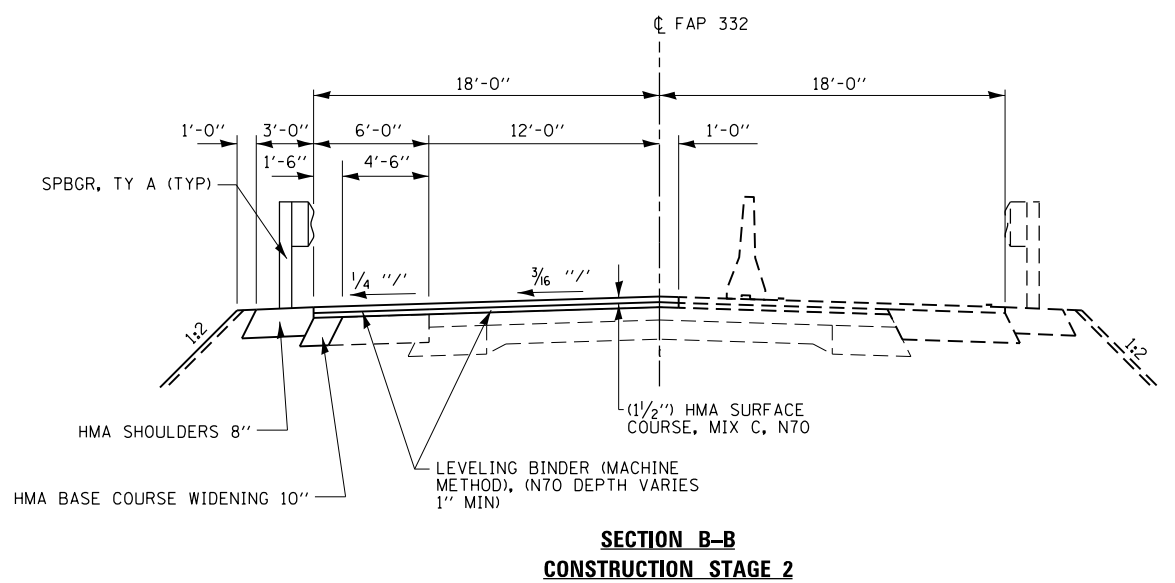
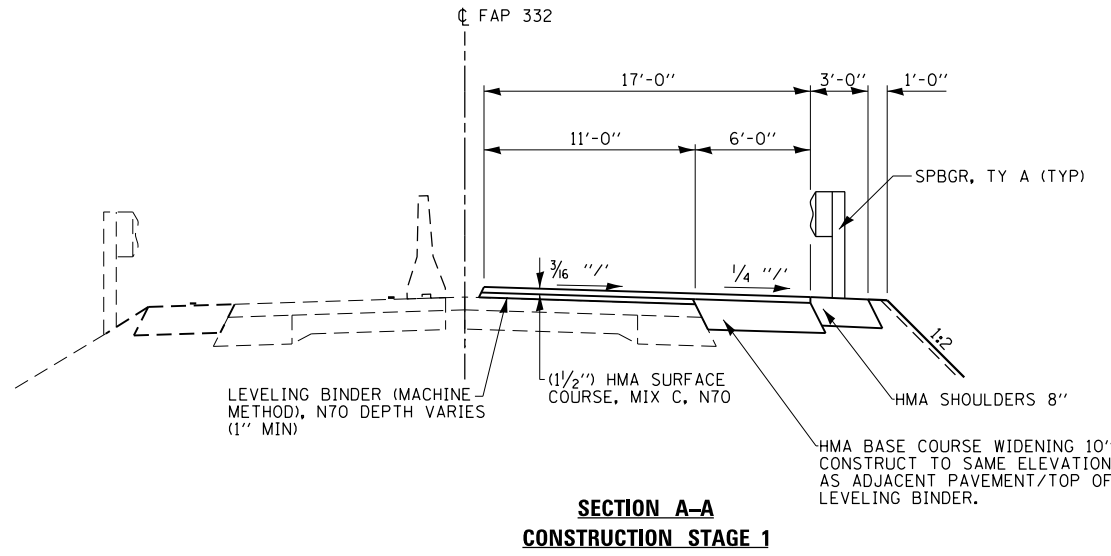
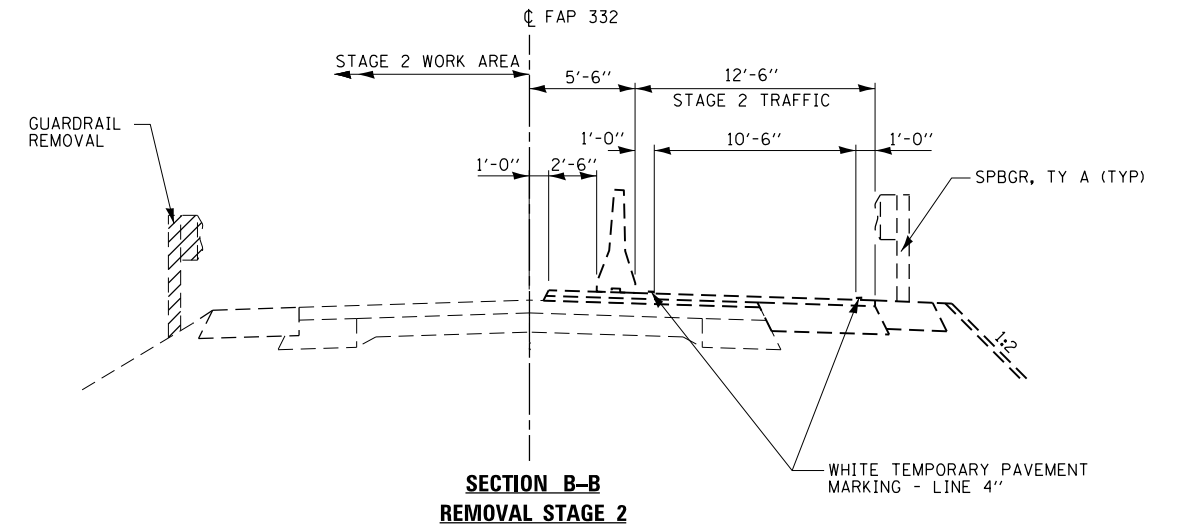
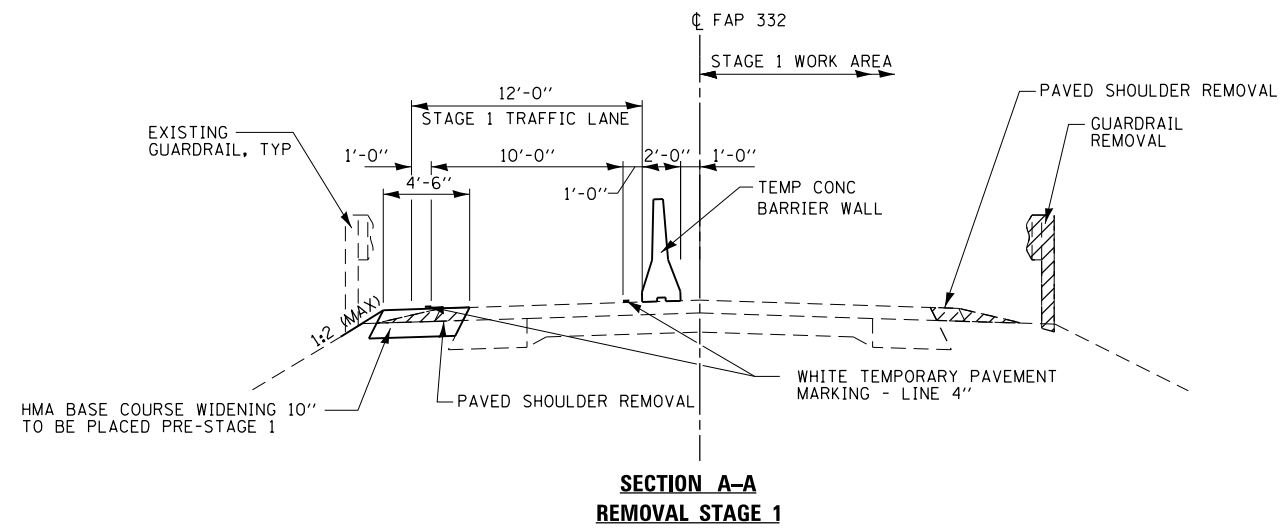
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	PLOT DATE = 6/12/2014	DATE - 6/12/2014	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION  
STAGE 2**

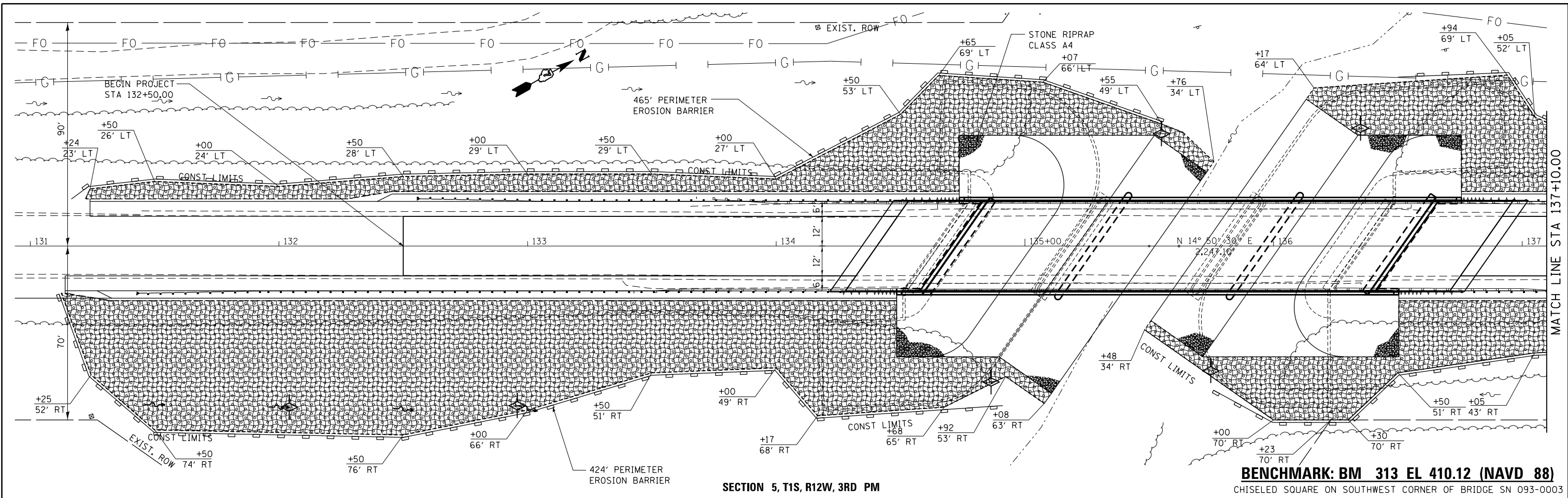
SCALE: 1"=30' SHEET NO. 2 OF 2 SHEETS STA. 128+25.00 TO STA. 147+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	16
CONTRACT NO. 74219			ILLINOIS FED. AID PROJECT	

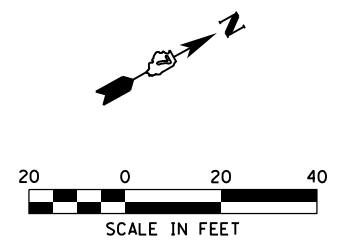
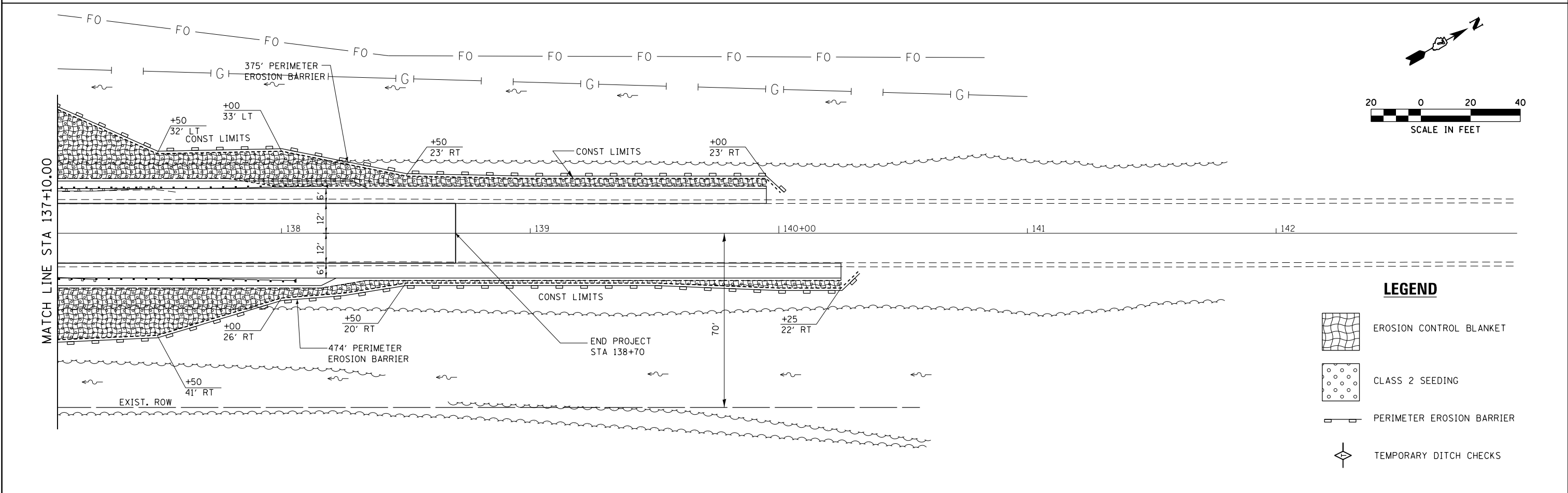


**TEMPORARY RAMP DETAIL**





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	PLOT SCALE = 10.0000' / in.	CHECKED - MTM	REVISED -					332	(12,B2)B-1	WABASH	68	17
PLOT DATE = 1/24/2014	DATE - 1/24/2014	REVISED -	REVISED -	SCALE: 1/2"=1'-0"	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 74219				
ILLINOIS FED. AID PROJECT												



**SECTION 5, T1S, R12W, 3RD PM**



**LEGEND**

-  EROSION CONTROL BLANKET
-  CLASS 2 SEEDING
-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECKS

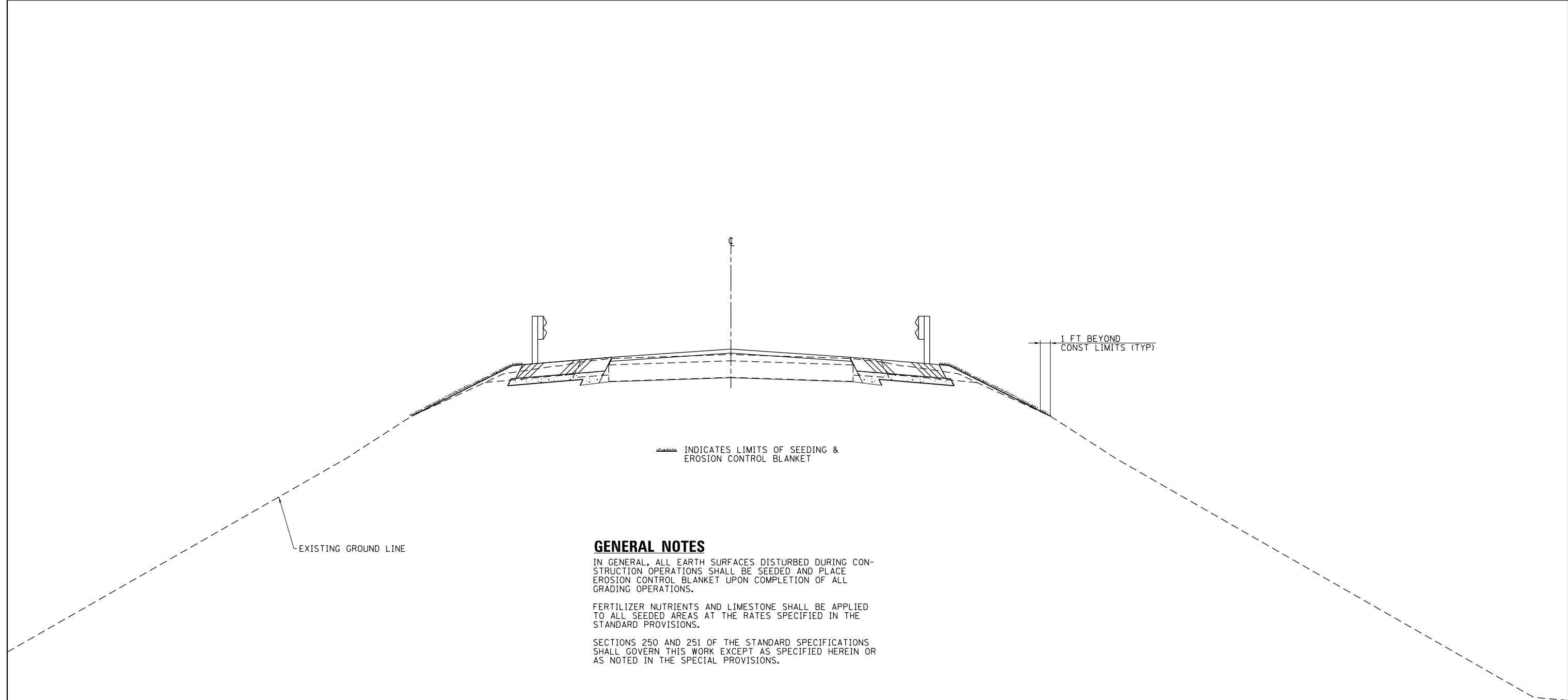
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PLOT DATE = 6/12/2014	DATE - 6/12/2014		REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN**

SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. 131+00.00 TO STA. 143+00.00

F.A.P. RTE. 332	SECTION (12,B2)B-1	COUNTY WABASH	TOTAL SHEETS 68	SHEET NO. 18
CONTRACT NO. 74219			ILLINOIS FED. AID PROJECT	



INDICATES LIMITS OF SEEDING & EROSION CONTROL BLANKET

EXISTING GROUND LINE

1 FT BEYOND CONST LIMITS (TYP)

**GENERAL NOTES**

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND PLACE EROSION CONTROL BLANKET UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDED AREAS AT THE RATES SPECIFIED IN THE STANDARD PROVISIONS.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

**SEEDING DETAIL**

FILE NAME = D774219-sht-details01.dgn	USER NAME = rhaosis	DESIGNED - NLH	REVISED -
		DRAWN - NLH	REVISED -
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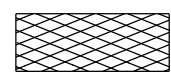
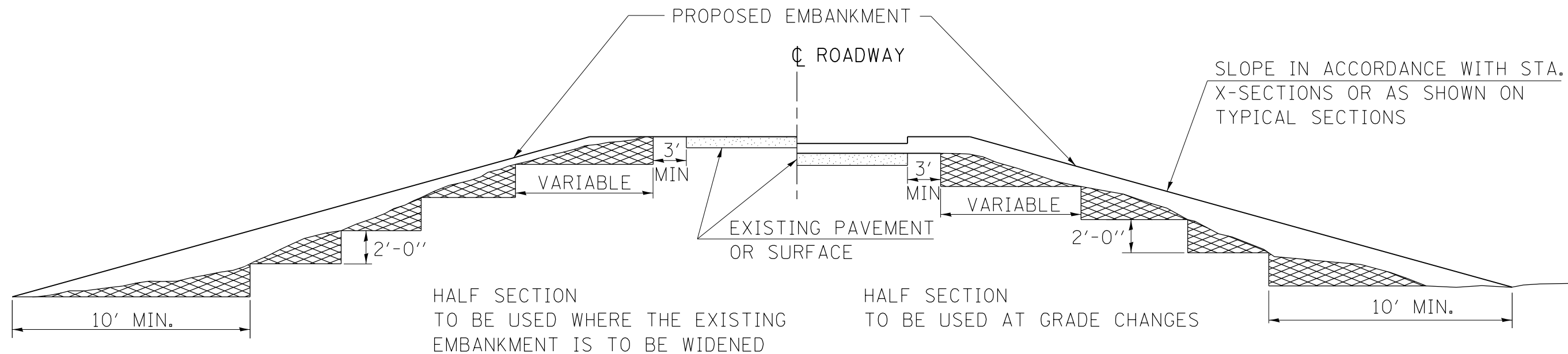
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SEEDING DETAIL

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	19
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74219	

# TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

PRINT DRIVER = DDD:JRP:alcf9  
 SCALE NAME = 8000LWABE  
 FILE NAME = 74219-sht-details02.dgn

FILE NAME = D774219-sht-details02.dgn	USER NAME = rhaosis	DESIGNED - CMM	REVISED -
		DRAWN - DWH/HAS	REVISED -
		CHECKED - MTM	REVISED -
		DATE - 1/24/2014	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETAILS</b>	
SCALE: 1/2"=1'-0"	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.P. RTE. 332	SECTION (12,B2)B-1	COUNTY WABASH	TOTAL SHEETS 68	SHEET NO. 20
CONTRACT NO. 74219			ILLINOIS FED. AID PROJECT	

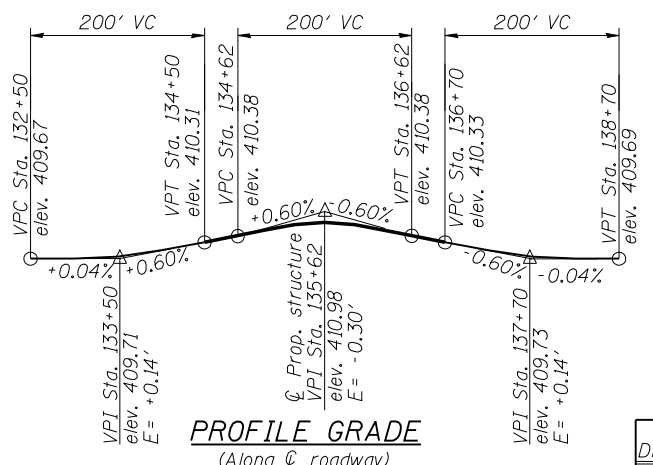
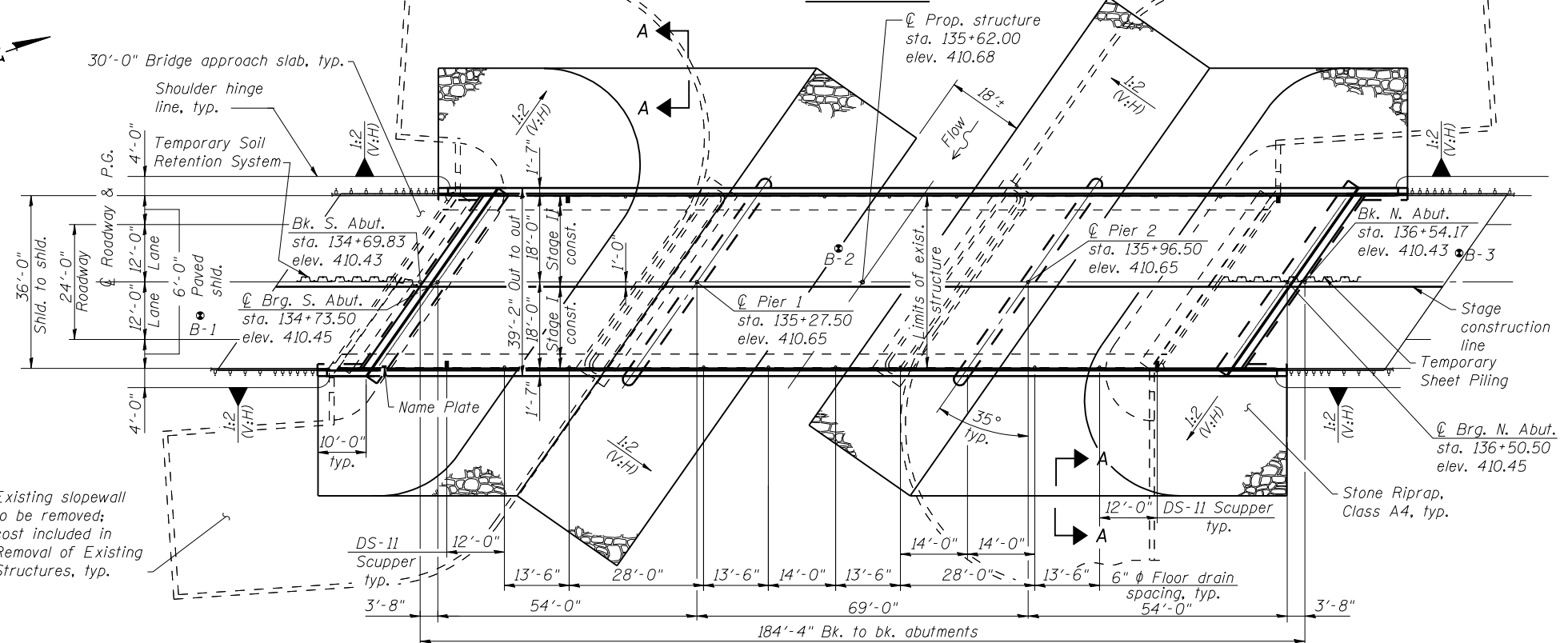
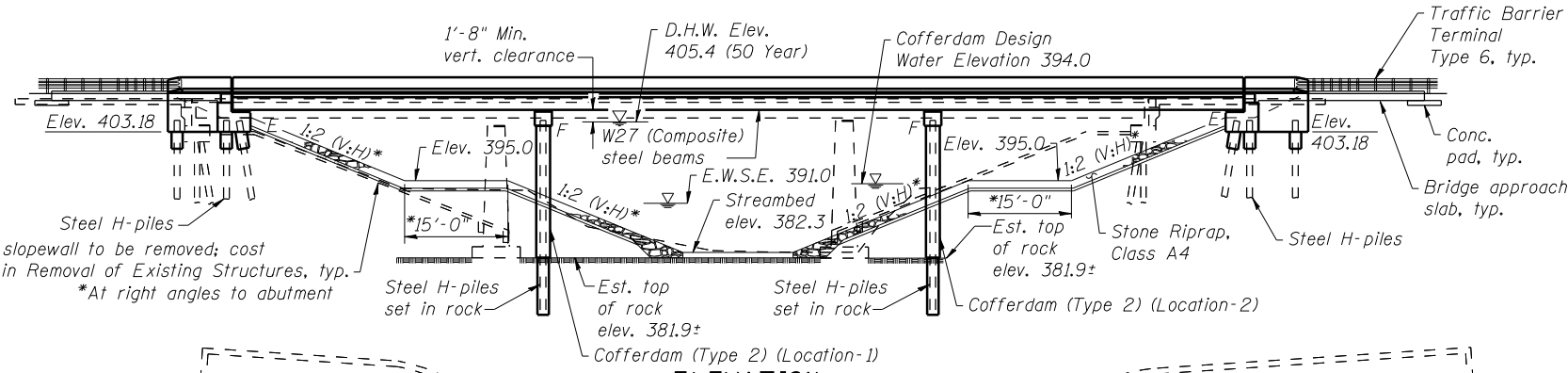
BENCHMARK: BM 313 - Chiseled square on southwest corner of SN 093-0003, elev. 410.12 (NAVD 88)

EXISTING STRUCTURE:  
SN 093-0003 was originally built as SBI 1, Section 12-B-2, in 1956. It is a three span continuous reinforced conc. slab deck on rolled steel beams supported by open abutments on steel piles and solid shaft piers on spread footings founded on rock. The deck width is 35'-8" and the length is 172'-0" back to back of abutments. The structure was constructed with a 35° ft. fwd. skew. Traffic shall be maintained utilizing stage construction

No salvage.

**STRUCTURE INDEX OF SHEETS**

General Plan & Elevation	Sheet No. 1 of 31
General Data	Sheet No. 2 of 31
Stage Construction Details	Sheet No. 3 of 31
Temporary Concrete Barrier for Stage Construction	Sheet No. 4 of 31
Top of Slab Elevations	Sheet Nos. 5 & 6 of 31
Top of South Approach Slab Elevations	Sheet No. 7 of 31
Top of North Approach Slab Elevations	Sheet No. 8 of 31
Superstructure	Sheet No. 9 of 31
Superstructure Details	Sheet Nos. 10 & 11 of 31
Bridge Approach Slab Details	Sheet Nos. 12 & 13 of 31
Preformed Joint Strip Seal	Sheet No. 14 of 31
Drainage Scupper, DS-11	Sheet No. 15 of 31
Steel Framing Plan	Sheet No. 16 of 31
Steel Framing Details	Sheet No. 17 of 31
Bearing Details	Sheet No. 18 of 31
South Abutment	Sheet No. 19 of 31
North Abutment	Sheet No. 20 of 31
Abutment Details	Sheet No. 21 of 31
Pier 1	Sheet No. 22 of 31
Pier 2	Sheet No. 23 of 31
HP Pile Details	Sheet No. 24 of 31
Bar Splicer Assembly and Mechanical Splicer Details	Sheet No. 25 of 31
Cantilever Forming Brackets for Superstructures with W27 Beams and Smaller	Sheet No. 26 of 31
Boring Logs	Sheet Nos. 27 thru 31 of 31



Design Scour Elevations (ft.)

S. Abut.	Pier 1	Pier 2	N. Abut.
403.2	381.5	381.5	403.2

**WATERWAY INFORMATION**

Drainage Area = 34.78 Sq. Mi. Exist. Low Grade Elev. = 408.28 Ft. @ Sta. 124+52.9  
Prop. Low Grade Elev. = 408.28 Ft. @ Sta. 124+52.9

Flood Yr.	Freq. C.F.S.	Opening - Sq. Ft.		Nat. Head - Ft.		Headwater El.	
		Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.
10	3420	1259	1333	403.1	0.2	0.2	403.3
50	5370	1536	1631	405.4	0.3	0.3	405.7
100	6230	1597	1764	406.4	0.4	0.3	406.8
200	7140	1597	1770	407.6	0.6	0.5	408.2

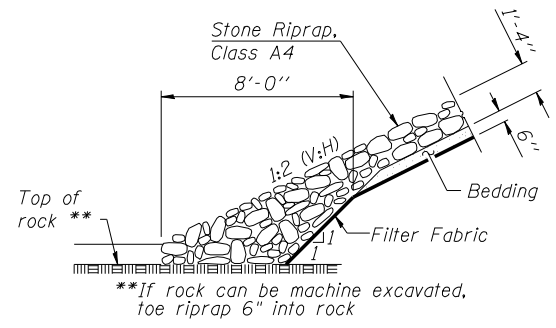
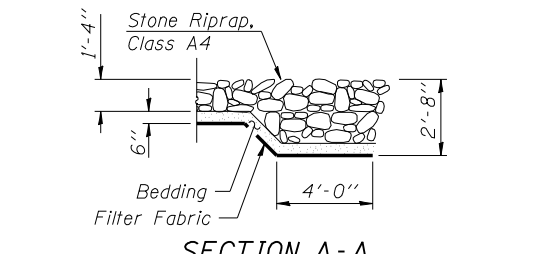
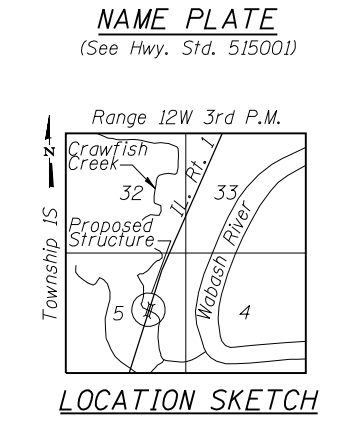
**DESIGN SPECIFICATIONS**  
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

**LOADING HL - 93**  
Allow 50 psf for future wearing surface.

**DESIGN STRESSES**  
FIELD UNITS  
f<sub>c</sub> = 3,500 psi  
f<sub>y</sub> = 60,000 psi (Reinf.)  
f<sub>y</sub> = 50,000 psi (M270 Grade 50)

**SEISMIC DATA**  
Seismic Performance Zone (SPZ) = 2  
Design Spectral Acceleration at 1.0 sec (S<sub>D1</sub>) = 0.250g  
Design Spectral Acceleration at 0.2 sec (S<sub>D5</sub>) = 0.586g  
Soil Site Class = D

STATION 135+62.00  
BUILT 2011 BY  
STATE OF ILLINOIS  
F.A.P. RT. 332 SEC. (12,B2)B-1  
LOADING HL-93  
STR. NO. 093-0025



**GENERAL PLAN & ELEVATION**  
**IL 1 OVER CRAWFISH CREEK**  
**FAP ROUTE 332 - SECTION (12,B2)B-1**  
**WABASH COUNTY**  
**STATION 135+62.00**  
**STRUCTURE NO. 093-0025**

STATE OF ILLINOIS  
F.A.P. RT. 332 SEC. (12,B2)B-1  
LOADING HL-93  
STR. NO. 093-0025  
No. 6159  
EXPIRES 11-30-14  
SIGNATURE  
01-03-14  
DATE

**GENERAL PLAN & ELEVATION**  
**IL 1 OVER CRAWFISH CREEK**  
**FAP ROUTE 332 - SECTION (12,B2)B-1**  
**WABASH COUNTY**  
**STATION 135+62.00**  
**STRUCTURE NO. 093-0025**



USER NAME = has	DESIGNED - ELH 05/11	REVISED -
ESCA PROJECT NO. 933.14	CHECKED - RDP 04/13	REVISED -
PLOT SCALE = 0/2" = 1' / IN.	DRAWN - DWH 05/11	REVISED -
PLOT DATE = 6/10/2014	CHECKED - ELH 01/14	REVISED -

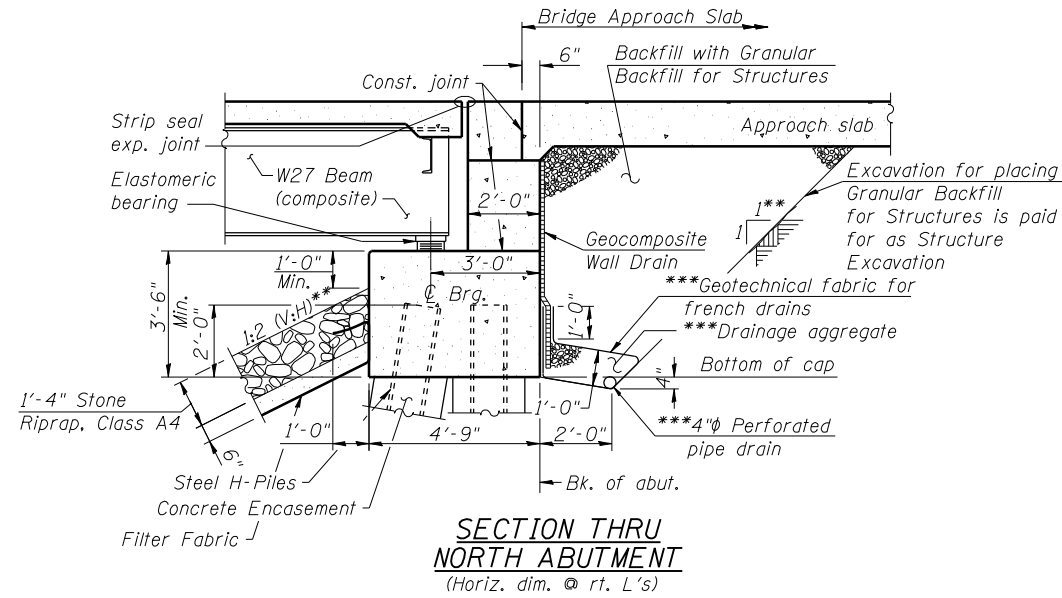
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SHEET NO. 1 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	21
CONTRACT NO. 74219			ILLINOIS FED. AID PROJECT	

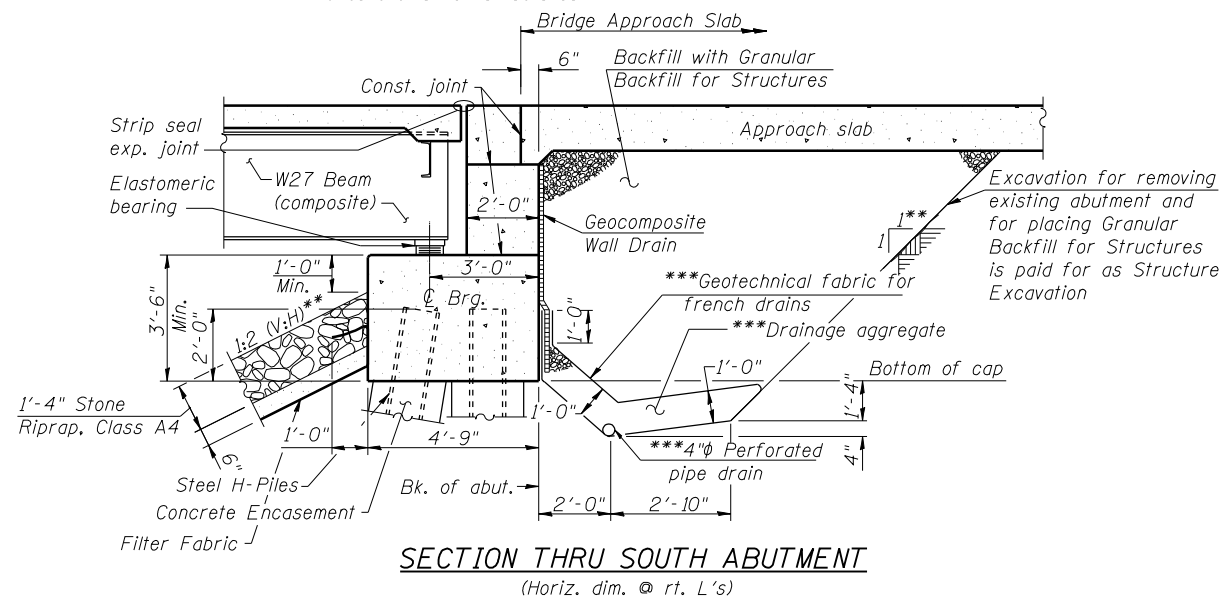
**GENERAL NOTES**

1. Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 7/8" dia., holes 15/16" dia., unless otherwise noted.
2. Calculated weight of structural steel = 119,630 lbs. (AASHTO M270 Gr. 50)  
= 14,770 lbs. (AASHTO M270 Gr. 36)
3. No field welding is permitted except as specified in the contract documents.
4. Reinforcement bars designated (E) shall be epoxy coated.
5. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
6. Concrete Sealer shall be applied to the designated areas of the abutments.
7. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
8. The Inorganic Zinc Rich Primer/Acrylic/Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. 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 bottom flange of the fascia beams shall be gray, Munsell No. 5B 7/1.
9. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
10. Slipforming of the parapets is not allowed.



Note: All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls. The pipe shall extend under the wingwalls until 2'-0" from intersecting the side slopes. The pipe shall be run down the slope to the toe of slope and drain into conc. headwalls (See Article 601.05 of the Std. Spec's. and Hwy. Std. 60110). The horizontal pipe will be paid for as Pipe Underdrains for Structures 4", and the sloped pipe will be paid for as Pipe Drains 4", see roadway plans.

\*\*@ Rt. L's  
\*\*\*Included in the cost of Pipe Underdrains for Structures 4"



**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.	-	1805	1805
Filter Fabric	Sq. Yd.	-	1805	1805
Removal of Existing Structures	Each	-	-	1
Structure Excavation	Cu. Yd.	-	800	800
Cofferdam Excavation	Cu. Yd.	-	520	520
Cofferdam (Type 2) (Location-1)	Each	-	1	1
Cofferdam (Type 2) (Location-2)	Each	-	1	1
Floor Drains	Each	16	-	16
Concrete Structures	Cu. Yd.	-	318.0	318.0
Concrete Superstructure	Cu. Yd.	348.9	-	348.9
Bridge Deck Grooving	Sq. Yd.	923	-	923
Concrete Encasement	Cu. Yd.	-	12.0	12.0
Protective Coat	Sq. Yd.	1160	-	1160
Furnishing and Erecting Structural Steel	L. Sum	1	-	1
Stud Shear Connectors	Each	3978	-	3978
Reinforcement Bars, Epoxy Coated	Pound	83270	28850	112120
Bar Splicers	Each	798	220	1018
Furnishing Steel Piles HP14x89	Foot	-	1320	1320
Driving Piles	Foot	-	620	620
Test Pile Steel HP14x89	Each	-	2	2
Name Plates	Each	1	-	1
Preformed Joint Strip Seal	Foot	92	-	92
Elastomeric Bearing Assembly, Type I	Each	12	-	12
Anchor Bolts, 3/4"	Each	-	48	48
Concrete Sealer	Sq. Ft.	-	994	994
Geocomposite Wall Drain	Sq. Yd.	-	54	54
Granular Backfill for Structures	Cu. Yd.	-	141	141
Drainage Scuppers, DS-11	Each	4	-	4
Temporary Sheet Piling	Sq. Ft.	-	380	380
Pipe Underdrains for Structures 4"	Foot	-	190	190
Setting Piles in Rock	Each	-	20	20
Temporary Soil Retention System	Sq. Ft.	-	100	100

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PLOT SCALE = 1/4" = 1'-0"	DRAWN - DWH/HAS 05/11	REVISED -
PLOT DATE = 6/10/2014 8:47:09 AM	CHECKED - ELH 01/14	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA  
STRUCTURE NO. 093-0025**

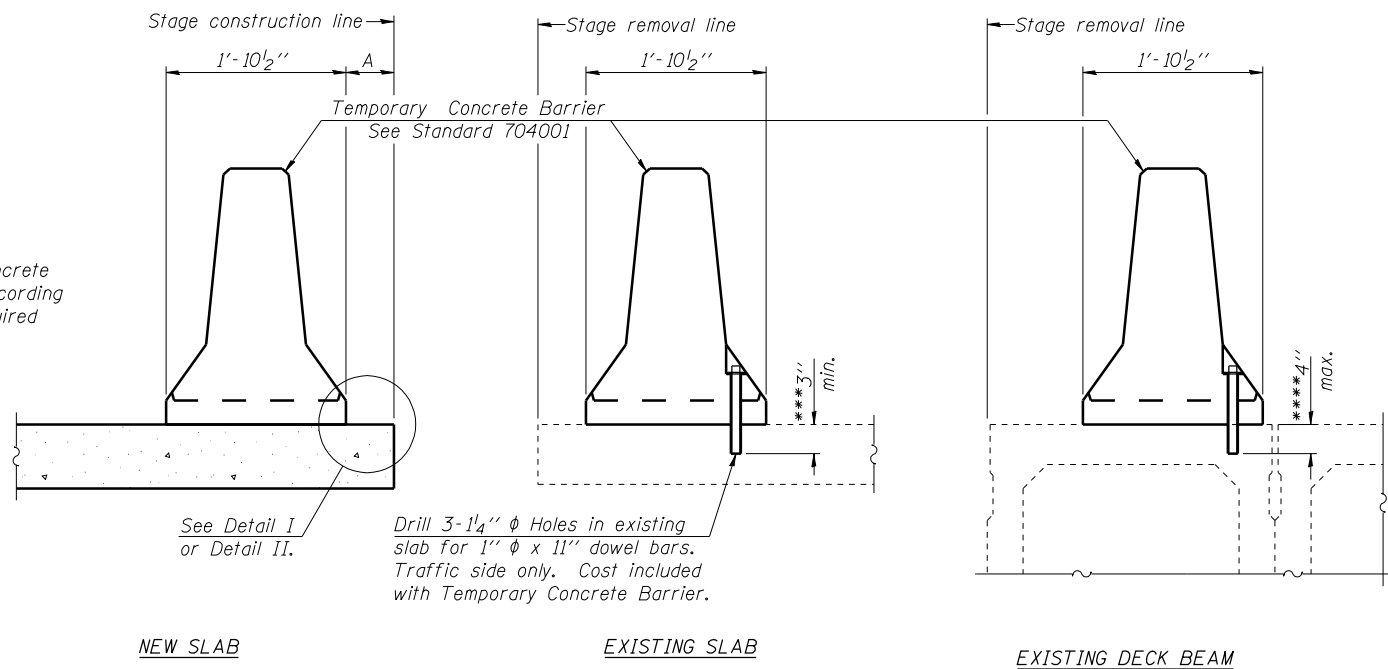
SHEET NO. 2 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74219	





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**

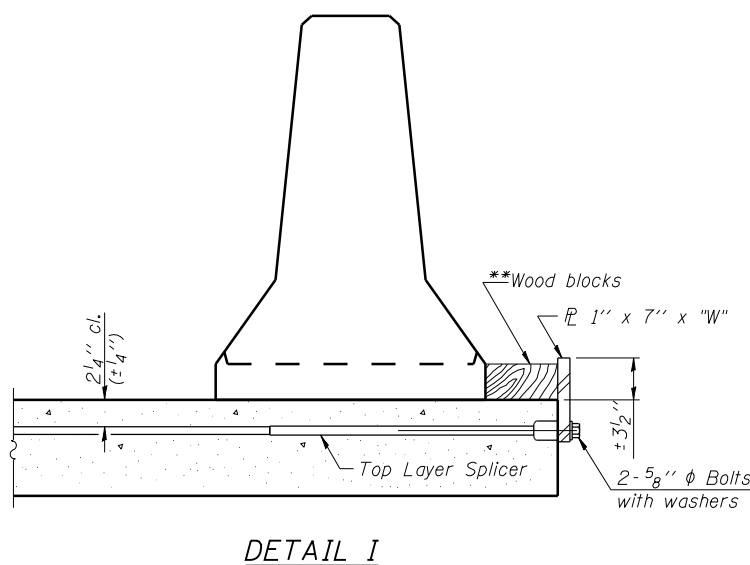
Detail I - With Bar Splicer or Couplers:  
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.

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.

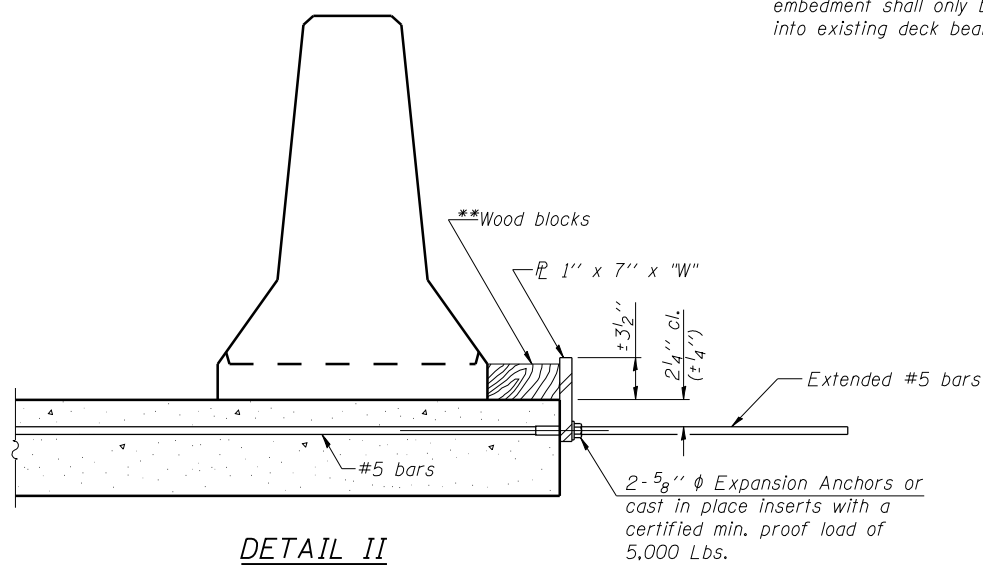
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

\*\*\* 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.



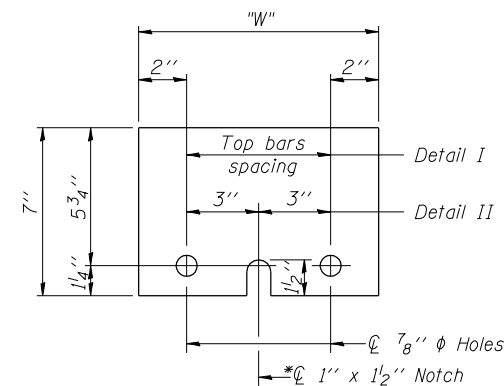
**DETAIL I**



**DETAIL II**

\*\* 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"



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

\* Required only with Detail II

PRINT DRIVER = L:\D-ESCA\B\A\H  
SCALE NAME = PLOT  
FILE NAME = 8:47:32 AM 6/10/2014

R-27

7-1-10



USER NAME = hos	DESIGNED - ELH 05/11	REVISED -
ESCA PROJECT NO. 933.14	CHECKED - RDP 04/13	REVISED -
PLOT SCALE = 0:2' = 1" / IN.	DRAWN - DWH 05/11	REVISED -
PLOT DATE = 6/10/2014 8:47:32 AM	CHECKED - ELH 05/11	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION  
STRUCTURE NO. 093-0025**

SHEET NO. 4 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	24
			CONTRACT NO. 74219	
ILLINOIS FED. AID PROJECT				



CL ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	134+69.83	0.00	410.43	410.43
CL Exp. joint	134+72.37	0.00	410.44	410.44
CL Brg. S. Abut.	134+72.48	0.00	410.45	410.45
a	134+73.50	0.00	410.50	410.52
b	134+83.50	0.00	410.54	410.57
c	134+93.50	0.00	410.58	410.61
d	135+03.50	0.00	410.61	410.62
CL Pier 1	135+13.50	0.00	410.64	410.64
e	135+27.50	0.00	410.66	410.68
f	135+37.50	0.00	410.67	410.72
g	135+47.50	0.00	410.68	410.75
h	135+57.50	0.00	410.68	410.75
i	135+67.50	0.00	410.67	410.72
j	135+77.50	0.00	410.66	410.68
CL Pier 2	135+87.50	0.00	410.64	410.64
k	135+96.50	0.00	410.62	410.63
l	136+06.50	0.00	410.59	410.61
m	136+16.50	0.00	410.56	410.59
n	136+26.50	0.00	410.51	410.54
CL Brg. N. Abut.	136+36.50	0.00	410.45	410.45
CL Exp. joint	136+51.63	0.00	410.44	410.44
Bk. N. Abut.	136+54.17	0.00	410.43	410.43

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	134+69.13	1.00	410.41	410.41
CL Exp. joint	134+71.67	1.00	410.42	410.42
CL Brg. S. Abut.	134+72.80	1.00	410.43	410.43
a	134+82.80	1.00	410.48	410.50
b	134+92.80	1.00	410.52	410.55
c	135+02.80	1.00	410.56	410.59
d	135+12.80	1.00	410.59	410.60
CL Pier 1	135+26.80	1.00	410.63	410.63
e	135+36.80	1.00	410.65	410.67
f	135+46.80	1.00	410.66	410.71
g	135+56.80	1.00	410.66	410.73
h	135+66.80	1.00	410.66	410.73
i	135+76.80	1.00	410.66	410.71
j	135+86.80	1.00	410.65	410.67
CL Pier 2	135+95.80	1.00	410.63	410.63
k	136+05.80	1.00	410.61	410.62
l	136+15.80	1.00	410.58	410.60
m	136+25.80	1.00	410.54	410.57
n	136+35.80	1.00	410.50	410.53
CL Brg. N. Abut.	136+49.80	1.00	410.43	410.43
CL Exp. joint	136+50.93	1.00	410.43	410.43
Bk. N. Abut.	136+53.47	1.00	410.42	410.42

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	134+67.53	3.29	410.36	410.36
CL Exp. joint	134+70.07	3.29	410.38	410.38
CL Brg. S. Abut.	134+71.20	3.29	410.38	410.38
a	134+81.20	3.29	410.43	410.44
b	134+91.20	3.29	410.48	410.51
c	135+01.20	3.29	410.52	410.55
d	135+11.20	3.29	410.55	410.56
CL Pier 1	135+25.20	3.29	410.59	410.59
e	135+35.20	3.29	410.61	410.63
f	135+45.20	3.29	410.62	410.67
g	135+55.20	3.29	410.63	410.70
h	135+65.20	3.29	410.63	410.70
i	135+75.20	3.29	410.62	410.67
j	135+85.20	3.29	410.61	410.63
CL Pier 2	135+94.20	3.29	410.60	410.60
k	136+04.20	3.29	410.58	410.59
l	136+14.20	3.29	410.55	410.57
m	136+24.20	3.29	410.51	410.54
n	136+34.20	3.29	410.47	410.50
CL Brg. N. Abut.	136+48.20	3.29	410.41	410.41
CL Exp. joint	136+49.33	3.29	410.41	410.41
Bk. N. Abut.	136+51.87	3.29	410.39	410.39

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	134+62.92	9.88	410.23	410.23
CL Exp. joint	134+65.46	9.88	410.25	410.25
CL Brg. S. Abut.	134+66.58	9.88	410.25	410.25
a	134+76.58	9.88	410.31	410.33
b	134+86.58	9.88	410.35	410.38
c	134+96.58	9.88	410.40	410.43
d	135+06.58	9.88	410.43	410.44
CL Pier 1	135+20.58	9.88	410.47	410.47
e	135+30.58	9.88	410.50	410.52
f	135+40.58	9.88	410.51	410.56
g	135+50.58	9.88	410.52	410.59
h	135+60.58	9.88	410.53	410.60
i	135+70.58	9.88	410.52	410.57
j	135+80.58	9.88	410.52	410.54
CL Pier 2	135+89.58	9.88	410.50	410.50
k	135+99.58	9.88	410.48	410.49
l	136+09.58	9.88	410.46	410.48
m	136+19.58	9.88	410.43	410.46
n	136+29.58	9.88	410.39	410.42
CL Brg. N. Abut.	136+43.58	9.88	410.33	410.33
CL Exp. joint	136+44.72	9.88	410.33	410.33
Bk. N. Abut.	136+47.26	9.88	410.31	410.31

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	134+58.31	16.46	410.08	410.08
CL Exp. joint	134+60.85	16.46	410.09	410.09
CL Brg. S. Abut.	134+61.97	16.46	410.10	410.10
a	134+71.97	16.46	410.16	410.18
b	134+81.97	16.46	410.21	410.25
c	134+91.97	16.46	410.25	410.28
d	135+01.97	16.46	410.29	410.30
CL Pier 1	135+15.97	16.46	410.34	410.34
e	135+25.97	16.46	410.36	410.38
f	135+35.97	16.46	410.38	410.43
g	135+45.97	16.46	410.39	410.46
h	135+55.97	16.46	410.40	410.47
i	135+65.97	16.46	410.40	410.45
j	135+75.97	16.46	410.39	410.41
CL Pier 2	135+84.97	16.46	410.38	410.38
k	135+94.97	16.46	410.37	410.38
l	136+04.97	16.46	410.34	410.37
m	136+14.97	16.46	410.32	410.36
n	136+24.97	16.46	410.28	410.31
CL Brg. N. Abut.	136+38.97	16.46	410.22	410.22
CL Exp. joint	136+40.11	16.46	410.22	410.22
Bk. N. Abut.	136+42.65	16.46	410.20	410.20

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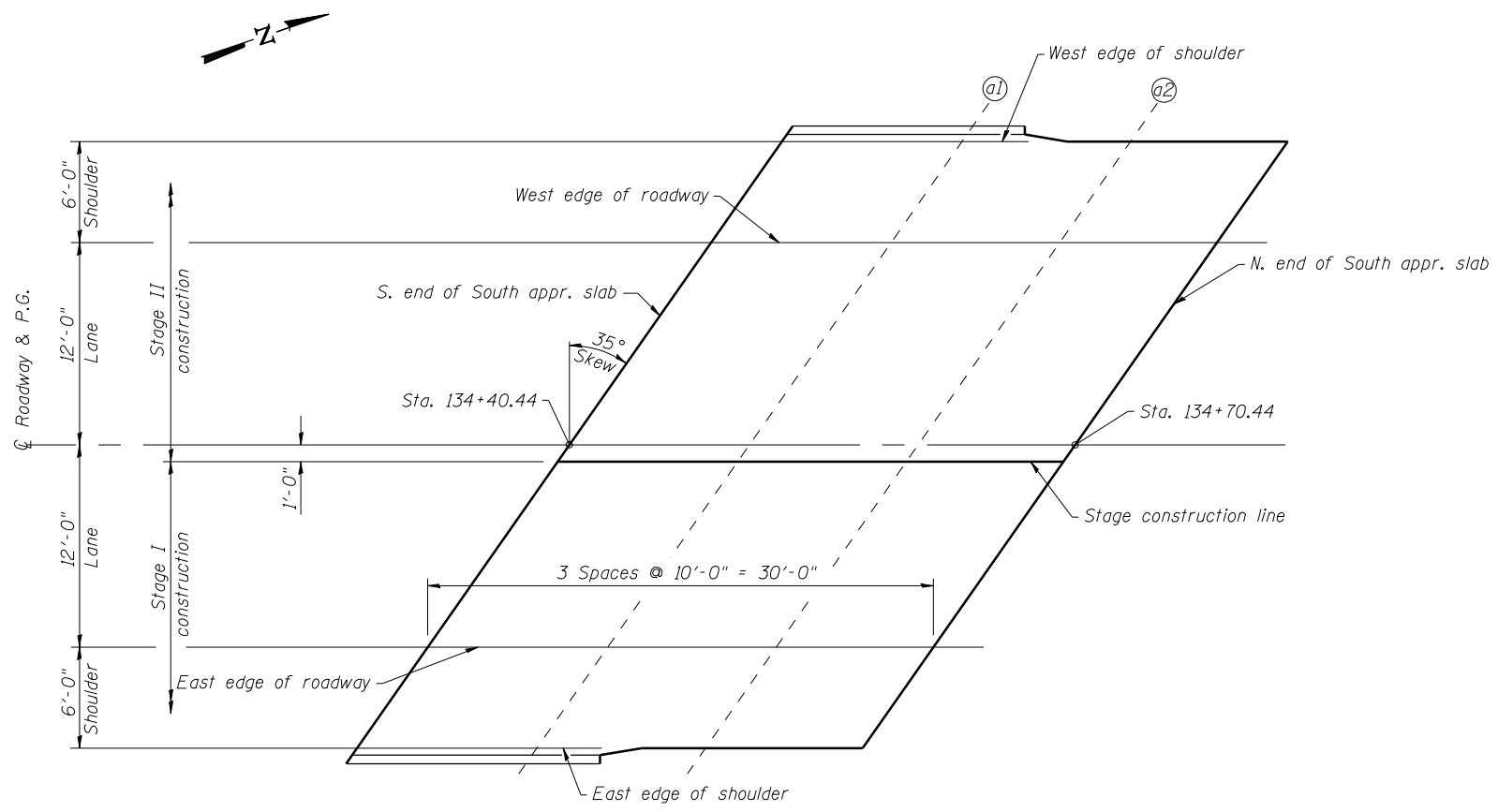
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 093-0025

SHEET NO. 6 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	26
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74219	



PLAN

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. end appr. slab	134+53.04	-18.00	410.02
a1	134+63.04	-18.00	410.07
a2	134+73.04	-18.00	410.13
N. end appr. slab	134+83.04	-18.00	410.18

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
S. end appr. slab	134+39.74	1.00	410.23
a1	134+49.74	1.00	410.29
a2	134+59.74	1.00	410.35
N. end appr. slab	134+69.74	1.00	410.41

WEST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
S. end appr. slab	134+48.84	-12.00	410.12
a1	134+58.84	-12.00	410.17
a2	134+68.84	-12.00	410.23
N. end appr. slab	134+78.84	-12.00	410.29

EAST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
S. end appr. slab	134+32.04	12.00	410.02
a1	134+42.04	12.00	410.08
a2	134+52.04	12.00	410.13
N. end appr. slab	134+62.04	12.00	410.19

CL ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
S. end appr. slab	134+40.44	0.00	410.25
a1	134+50.44	0.00	410.31
a2	134+60.44	0.00	410.37
N. end appr. slab	134+70.44	0.00	410.43

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. end appr. slab	134+27.84	18.00	409.87
a1	134+37.84	18.00	409.93
a2	134+47.84	18.00	409.98
N. end appr. slab	134+57.84	18.00	410.04

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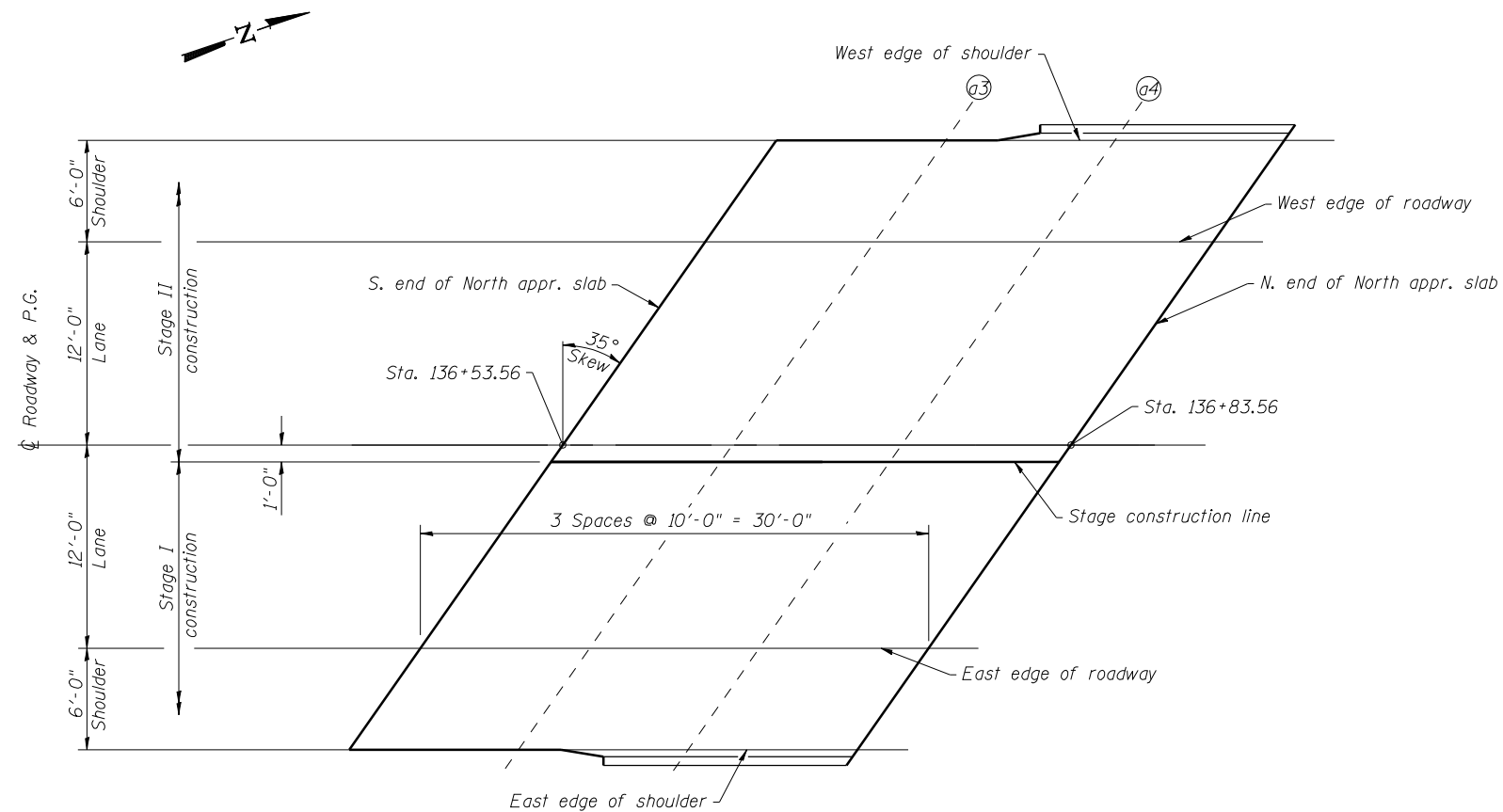
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF SOUTH APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 093-0025

SHEET NO. 7 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	27
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74219	



PLAN

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. end appr. slab	136+66.16	-18.00	410.04
a3	136+76.16	-18.00	409.98
a4	136+86.16	-18.00	409.92
N. end appr. slab	136+96.16	-18.00	409.87

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
S. end appr. slab	136+52.86	1.00	410.42
a3	136+62.86	1.00	410.36
a4	136+72.86	1.00	410.30
N. end appr. slab	136+82.86	1.00	410.24

WEST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
S. end appr. slab	136+61.96	-12.00	410.19
a3	136+71.96	-12.00	410.13
a4	136+81.96	-12.00	410.07
N. end appr. slab	136+91.96	-12.00	410.02

EAST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
S. end appr. slab	136+45.16	12.00	410.29
a3	136+55.16	12.00	410.23
a4	136+65.16	12.00	410.17
N. end appr. slab	136+75.16	12.00	410.11

CL ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
S. end appr. slab	136+53.56	0.00	410.43
a3	136+63.56	0.00	410.37
a4	136+73.56	0.00	410.31
N. end appr. slab	136+83.56	0.00	410.25

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. end appr. slab	136+40.96	18.00	410.18
a3	136+50.96	18.00	410.13
a4	136+60.96	18.00	410.07
N. end appr. slab	136+70.96	18.00	410.01

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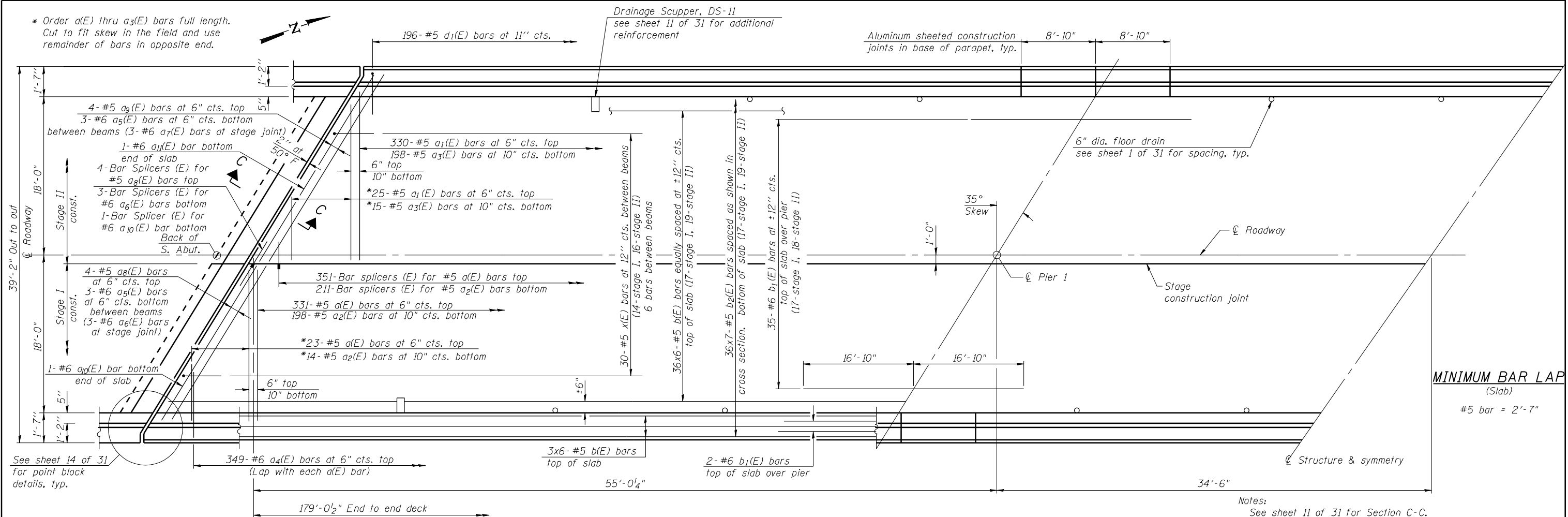
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TOP OF NORTH APPROACH SLAB ELEVATIONS  
 STRUCTURE NO. 093-0025

SHEET NO. 8 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	28
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74219	

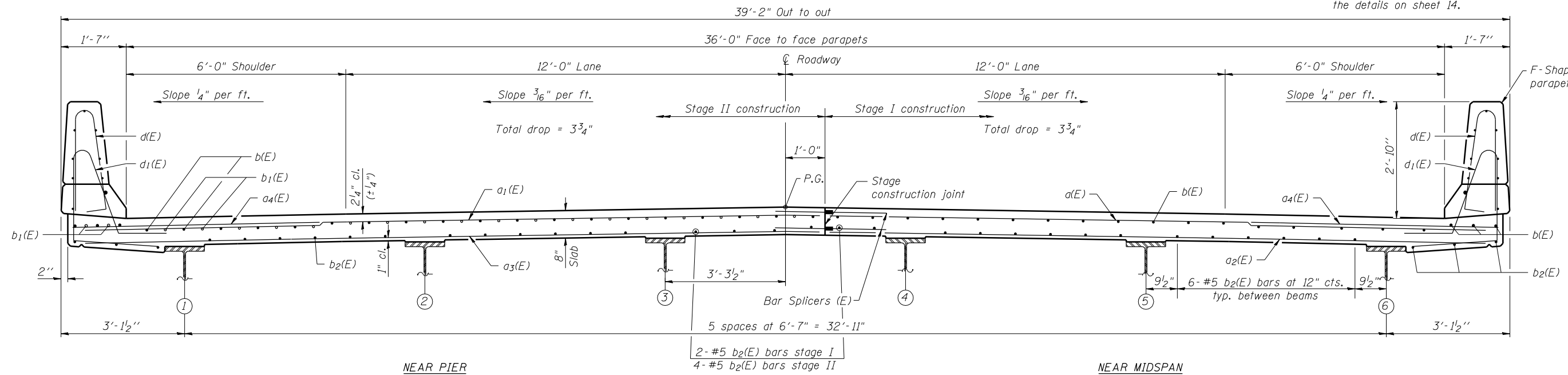
\* Order a(E) thru a3(E) bars full length. Cut to fit skew in the field and use remainder of bars in opposite end.



**PARTIAL PLAN**

Notes:  
 See sheet 11 of 31 for Section C-C.  
 See sheets 10 & 11 of 31 for superstructure details and Bill of Material.  
 Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.  
 See sheet 10 of 31 for parapet reinforcement.  
 Dimensions are based on a rolled rail strip seal joint. If the Contractor elects to use the welded rail strip seal joint, deck dimensions may require adjustments to satisfy the details on sheet 14.

**MINIMUM BAR LAP**  
 (Slab)  
 #5 bar = 2'-7"



**CROSS SECTION**  
 (Looking North)

PRINT DRIVER: LEO E. BARBIL  
 CHECKER: JAMES W. HAYES  
 FILE NAME: 093025-2219-09-20-14



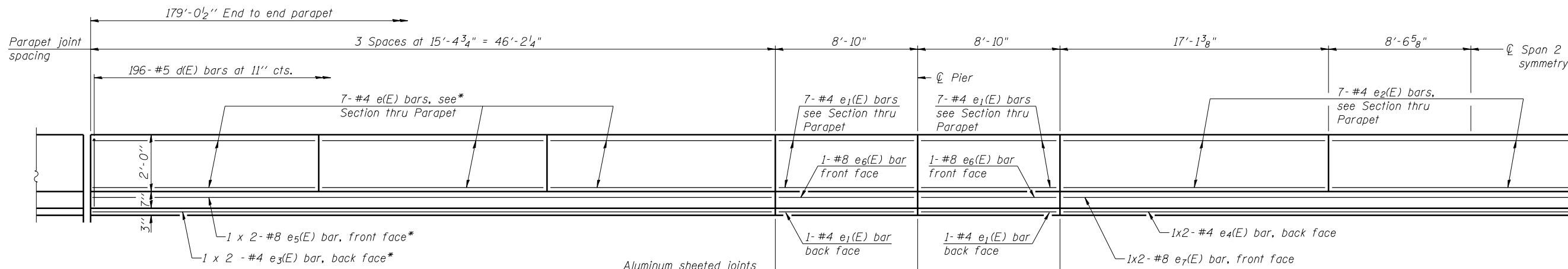
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE**  
**STRUCTURE NO. 093-0025**

SHEET NO. 9 OF 31 SHEETS

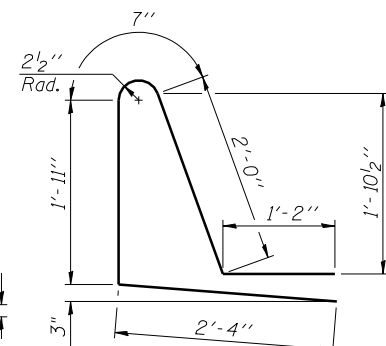
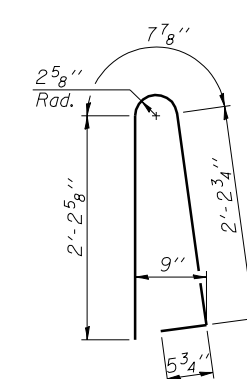
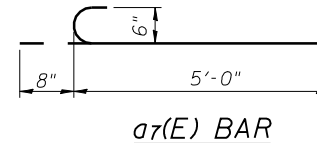
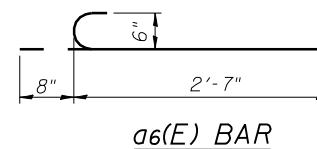
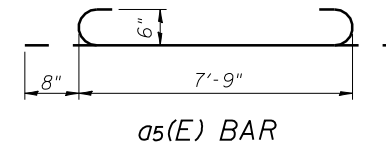
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	29
CONTRACT NO. 74219				
ILLINOIS FED. AID PROJECT				



\*Field cut bars to fit near expansion joint

Aluminum sheeted joints in base of parapet

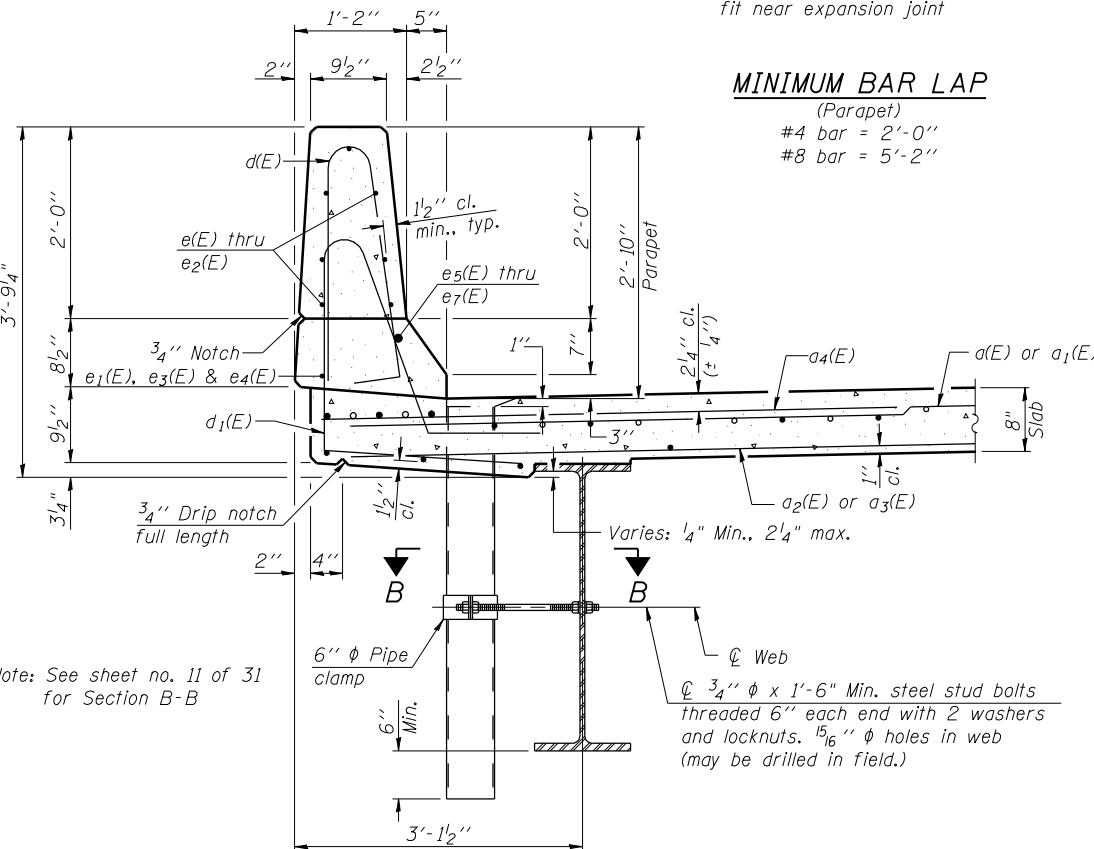
**INSIDE ELEVATION OF PARAPET**



**SUPERSTRUCTURE BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	354	#5	18'-0"	—
a1(E)	355	#5	20'-0"	—
a2(E)	212	#5	17'-11"	—
a3(E)	213	#5	19'-11"	—
a4(E)	698	#6	6'-6"	—
a5(E)	24	#6	9'-1"	—
a6(E)	6	#6	3'-3"	—
a7(E)	6	#6	5'-8"	—
a8(E)	8	#5	22'-1"	—
a9(E)	8	#5	24'-5"	—
a10(E)	2	#6	21'-10"	—
a11(E)	2	#6	24'-3"	—
a2(E)	32	#5	1'-6"	—
b(E)	252	#5	32'-0"	—
b1(E)	78	#6	33'-8"	—
b2(E)	252	#5	27'-9"	—
d(E)	392	#5	5'-7"	—
d1(E)	392	#5	8'-0"	—
e(E)	84	#4	15'-0"	—
e1(E)	64	#4	8'-6"	—
e2(E)	42	#4	16'-9"	—
e3(E)	8	#4	24'-0"	—
e4(E)	4	#4	26'-6"	—
e5(E)	8	#8	25'-7"	—
e6(E)	8	#8	8'-6"	—
e7(E)	4	#8	28'-1"	—
x(E)	60	#5	6'-5"	—
Reinforcement Bars, Epoxy Coated		Pound	58750	
Concrete Superstructure		Cu. Yds.	238.3	

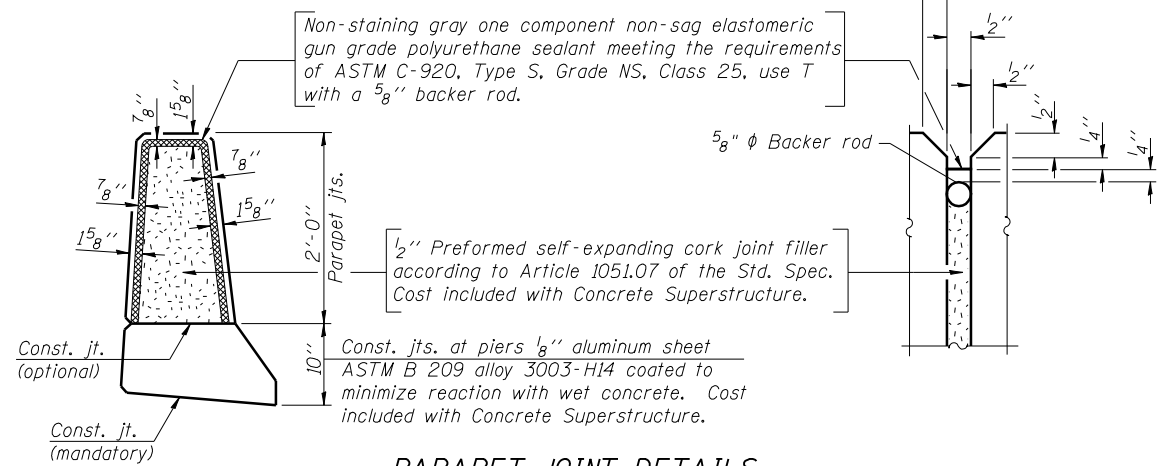
Bars indicated thus 1 x 2 - #8 etc. indicates 1 line of bars with 2 lengths per line.



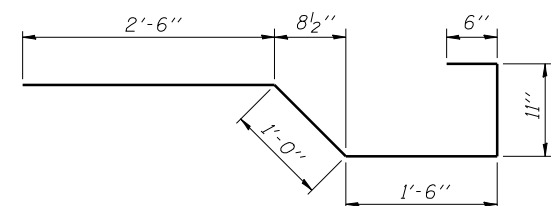
**SECTION THRU PARAPET**

**MINIMUM BAR LAP**

(Parapet)  
#4 bar = 2'-0"  
#8 bar = 5'-2"



**PARAPET JOINT DETAILS**



**BAR x(E)**

Note: See sheet no. 11 of 31 for Section B-B

PRINT DRIVER = JLD-E82828  
SCALE NAME = PLOT  
FILE NAME = 090302-74219-10-58-D1.dwg



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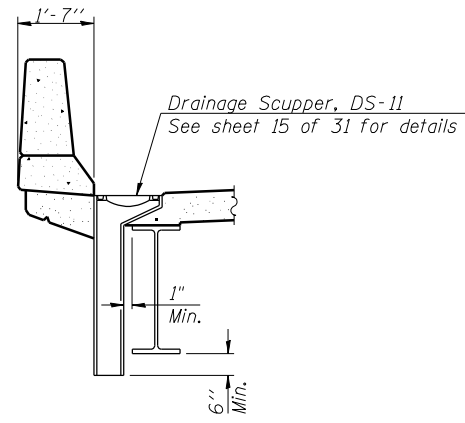
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS STRUCTURE NO. 093-0025**

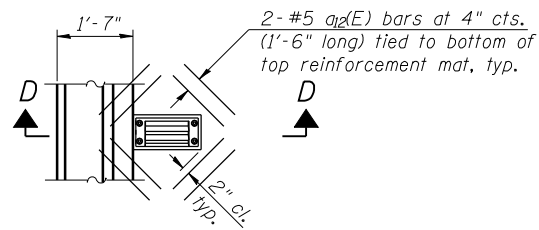
SHEET NO. 10 OF 31 SHEETS

F.A.P. RTE. 332	SECTION (12,B2)B-1	COUNTY WABASH	TOTAL SHEETS 68	SHEET NO. 30
CONTRACT NO. 74219				

ILLINOIS FED. AID PROJECT



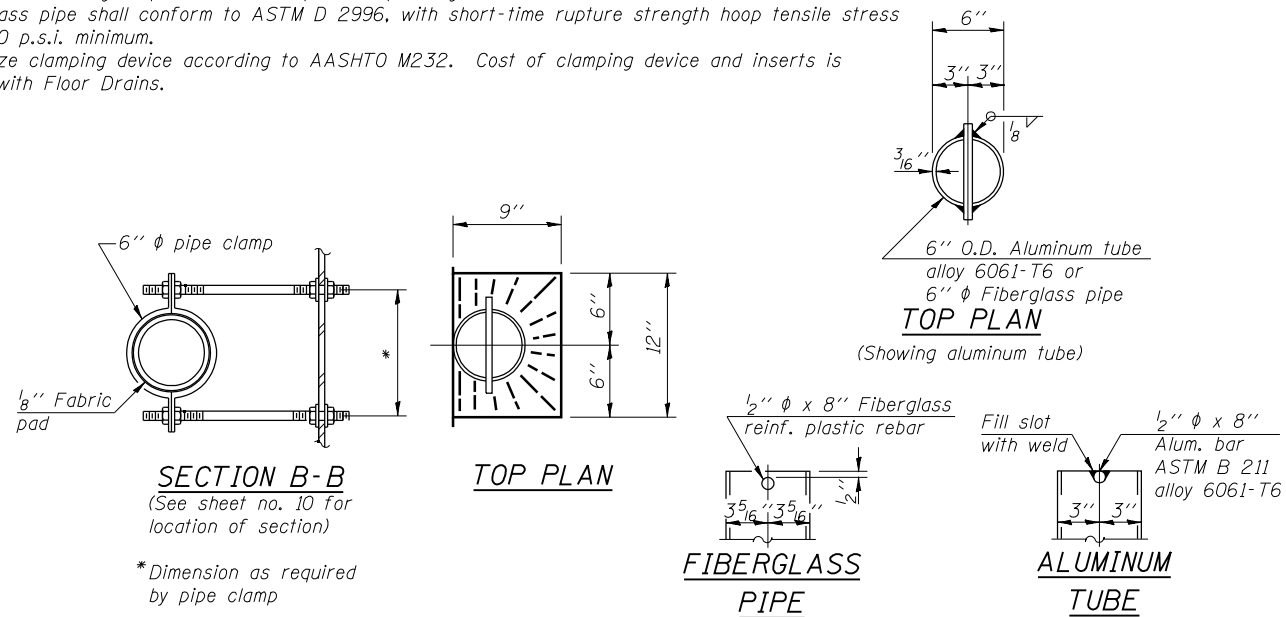
**SECTION D-D**



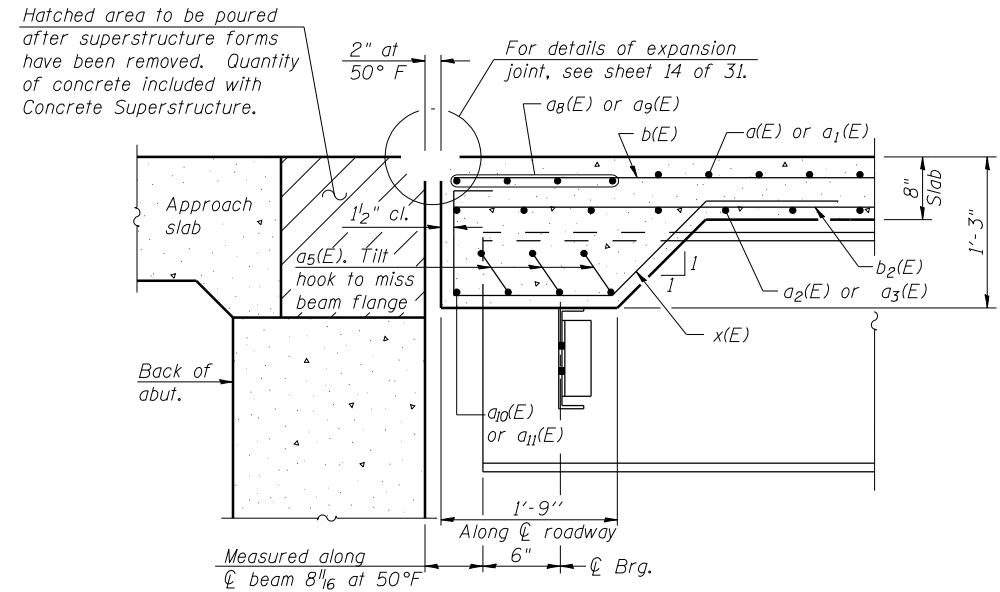
**PLAN AT SCUPPER**

Note:  
Cut longitudinal reinforcement to clear drainage scuppers.

Notes:  
Drains shall be located clear of all diaphragms.  
The exterior surfaces of the floor drains shall be painted with the finish coat as specified in Section 506 of the Standard Specifications. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coatings Spec. SSPC-SP1 prior to painting.  
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.  
Galvanize clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.



**FLOOR DRAIN DETAILS**



**SECTION C-C**

(See sheet no. 9 of 31 for location of section)

PRINT DRIVER = LUD-ER-BA-2011  
 PLOT DATE = 6/10/2014  
 PLOT SCALE = 1/4" = 1'-0"  
 PLOT NAME = 093314-11-500-D11.dwg



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

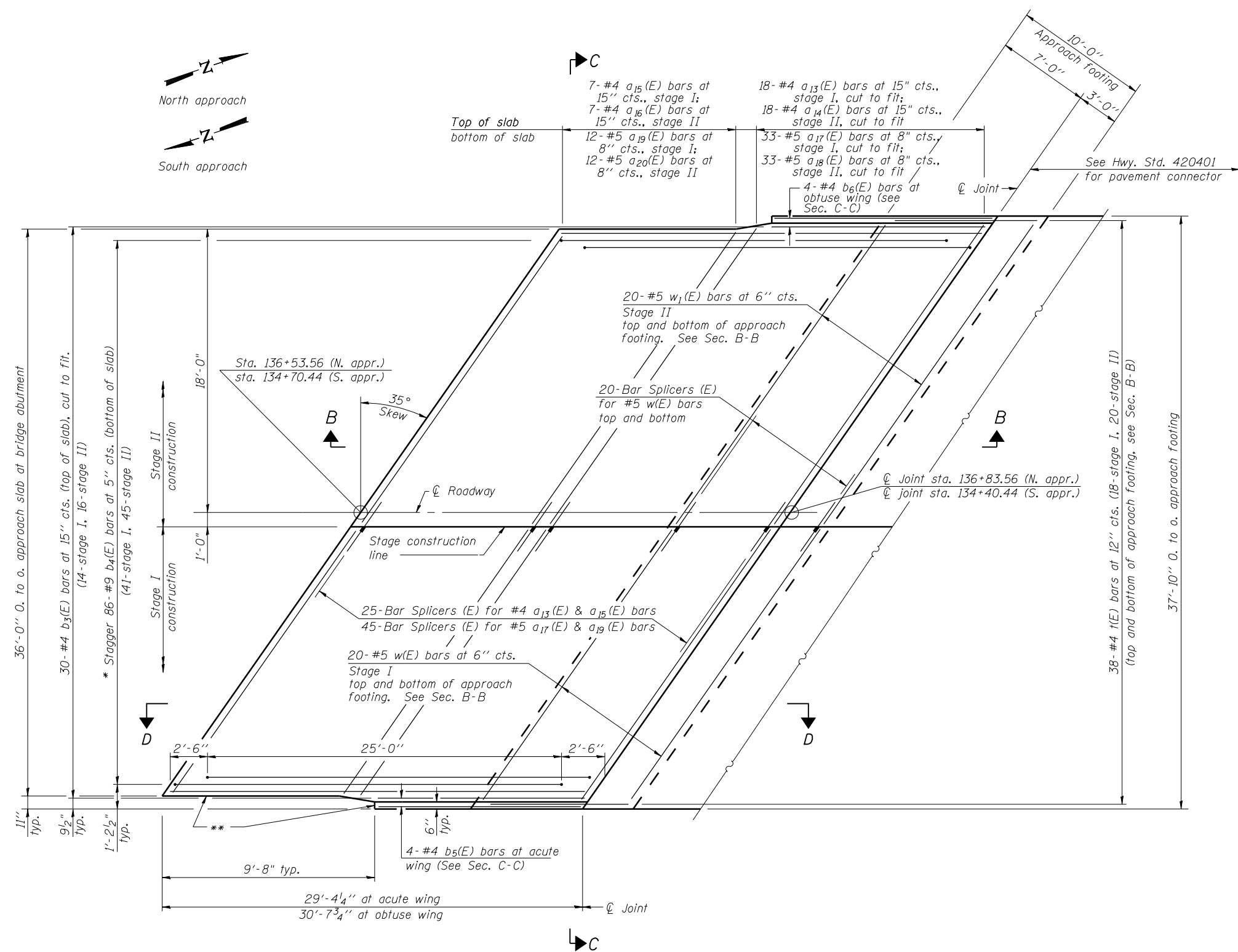
**SUPERSTRUCTURE DETAILS  
STRUCTURE NO. 093-0025**

SHEET NO. 11 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	31
CONTRACT NO. 74219				
ILLINOIS FED. AID PROJECT				



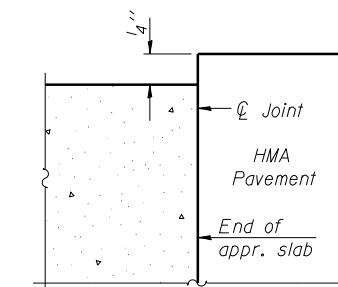
Notes:  
 See sheet 13 of 31 for Sections B-B & C-C and View D-D.  
 $a_{13}(E)$ ,  $a_{14}(E)$ ,  $a_{15}(E)$ ,  $a_{16}(E)$ ,  $a_{17}(E)$ ,  $a_{18}(E)$ ,  $a_{19}(E)$  and  $a_{20}(E)$  bar spacings measured along  $\phi$  roadway.



**PLAN**

(N. appr. shown; S. appr. opposite hand)

- \* Tilt #9  $b_4(E)$  bars as required to maintain clearance.
- \*\* Closed cell joint filler according to Article 1051.09 of the Std. Specifications; full depth of slab, full length of parapet, typ. each parapet.



FLEXIBLE PAVEMENT

DETAIL A

(Sheet 1 of 2)

PRINT DRIVER = LUD-LEBARON  
 SCALE NAME = PLOT  
 FILE NAME = 093025-74219-12-04-01.dwg



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

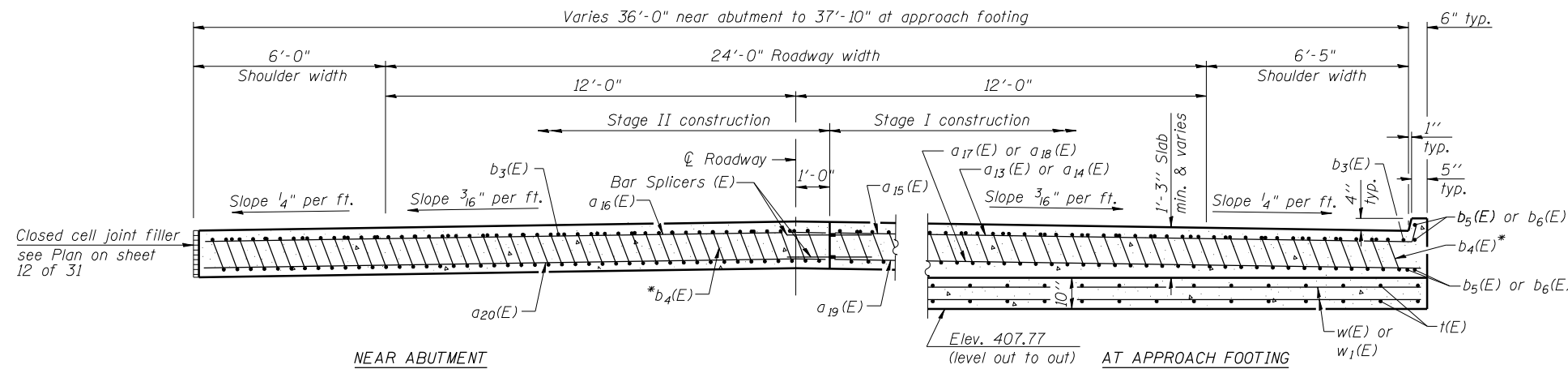
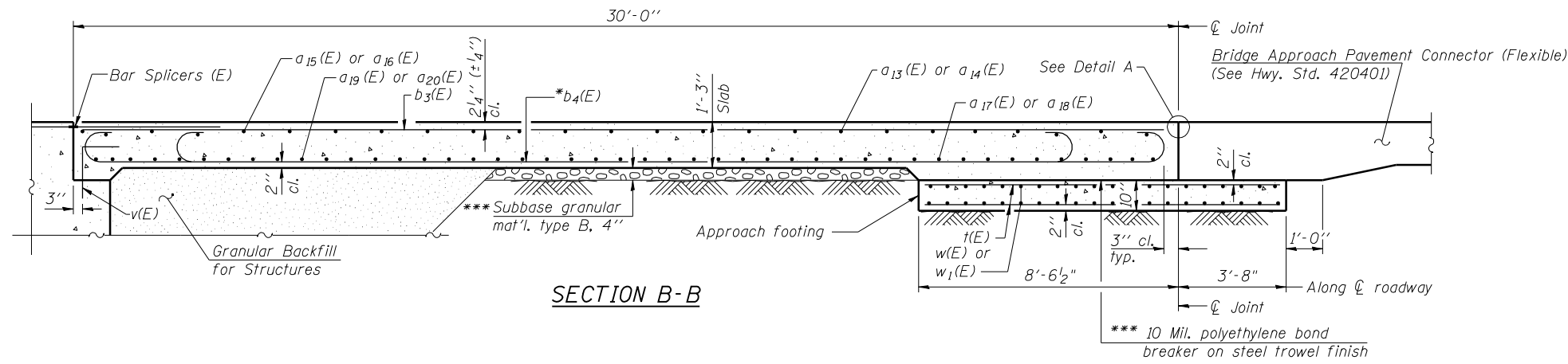
**BRIDGE APPROACH SLAB DETAILS  
 STRUCTURE NO. 093-0025**

SHEET NO. 12 OF 31 SHEETS

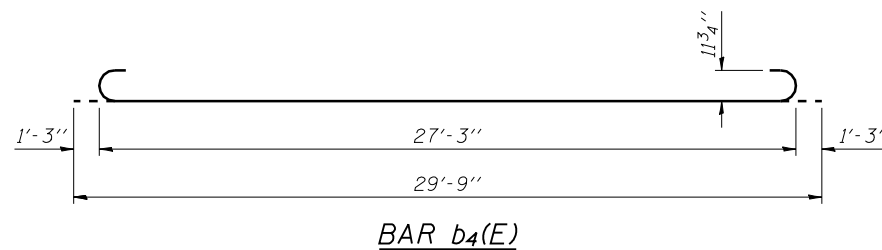
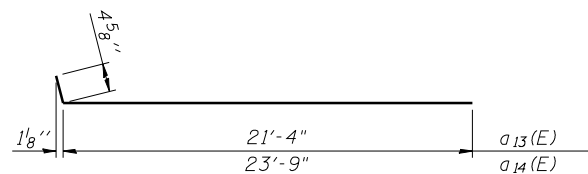
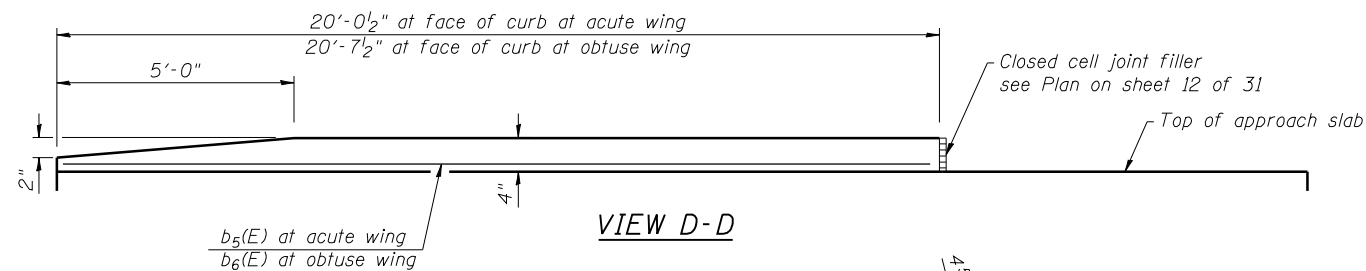
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	32
CONTRACT NO. 74219				
ILLINOIS FED. AID PROJECT				

Notes:

See sheet 12 of 31 for Detail A.  
 Approach slab shall be paid for as Concrete Superstructure.  
 Approach footing concrete shall be paid for as Concrete Structures.  
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.  
 For v(E) bar details, see sheet 19 of 31.  
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.  
 For bar splicer details, see sheet 25 of 31.  
 Cost of excavation for approach footing included with Concrete Structures.  
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 31.  
 Cost of closed cell joint filler included with Concrete Superstructure.



\* Tilt #9 b4(E) bars as required to maintain clearance.  
 \*\*\* Cost included with Concrete Superstructure.



**TWO APPROACHES  
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
a13(E)	36	#4	21'-9"	—	
a14(E)	36	#4	24'-2"	—	
a15(E)	14	#4	20'-4"	—	
a16(E)	14	#4	22'-9"	—	
a17(E)	66	#5	21'-6"	—	
a18(E)	66	#5	23'-11"	—	
a19(E)	24	#5	20'-4"	—	
a20(E)	24	#5	22'-9"	—	
b3(E)	60	#4	29'-8"	—	
b4(E)	172	#9	29'-9"	—	
b5(E)	8	#4	19'-7"	—	
b6(E)	8	#4	20'-6"	—	
t(E)	152	#4	11'-9"	—	
w(E)	80	#5	21'-6"	—	
w1(E)	80	#5	23'-11"	—	
Concrete Superstructure				Cu. Yd.	110.6
Concrete Structures				Cu. Yd.	28.6
Reinforcement Bars, Epoxy Coated				Pound	29,500

(Sheet 2 of 2)

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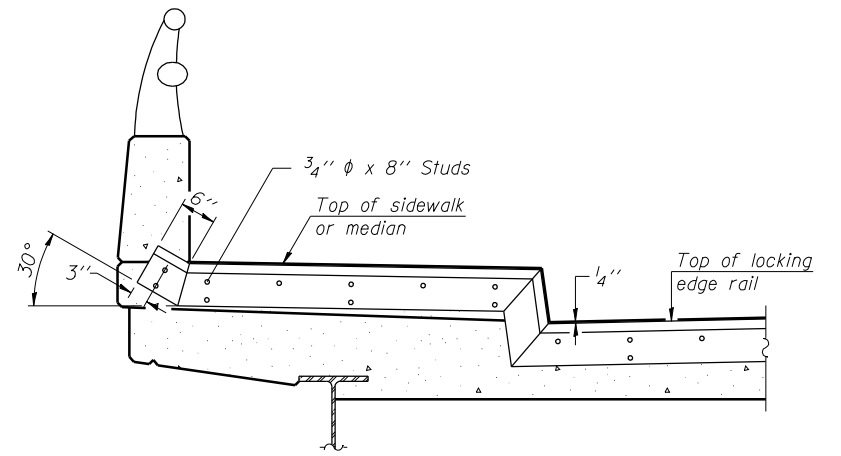
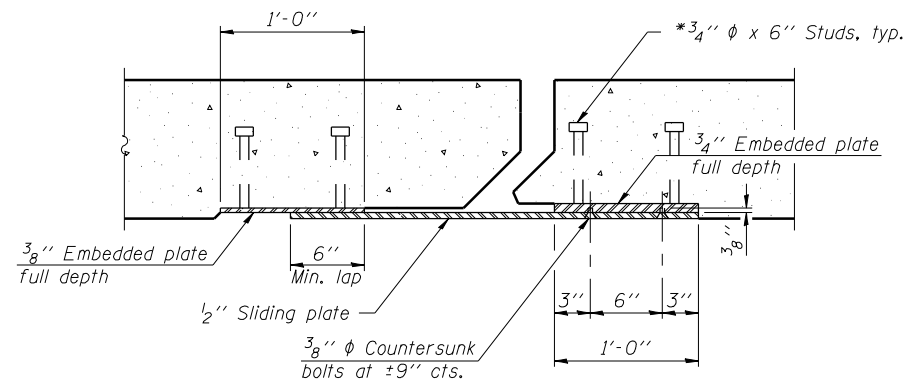
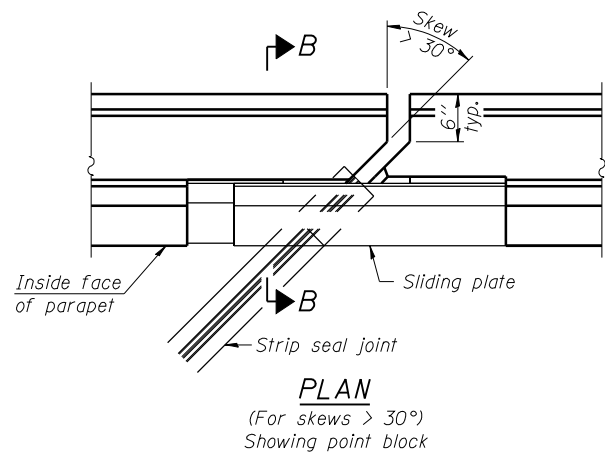
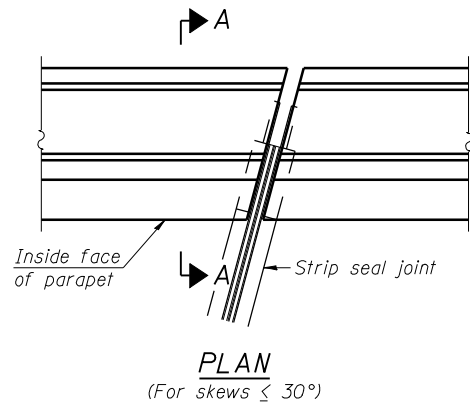
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

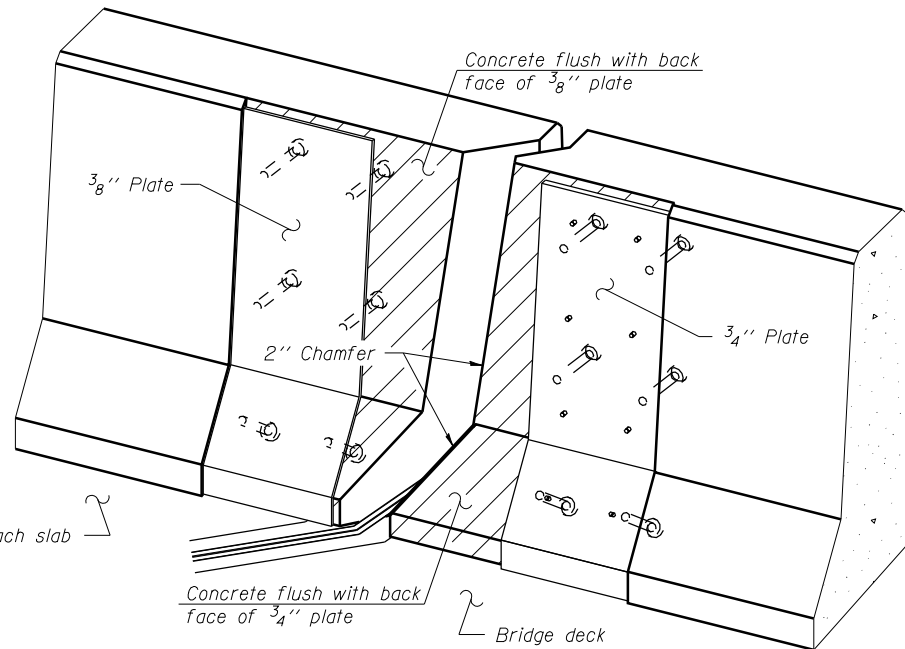
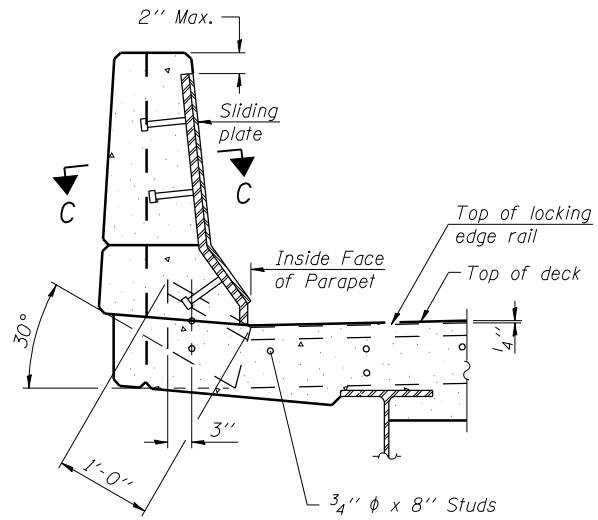
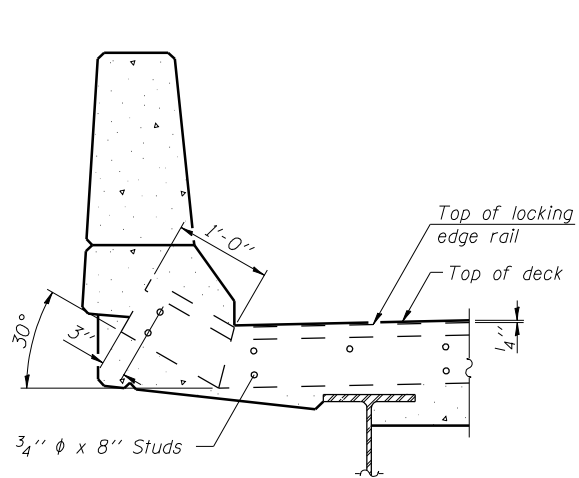
**BRIDGE APPROACH SLAB DETAILS  
 STRUCTURE NO. 093-0025**

SHEET NO. 13 OF 31 SHEETS

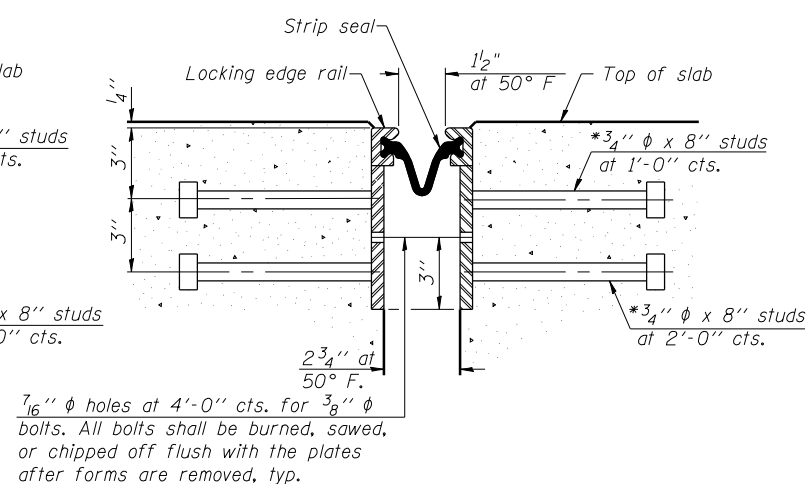
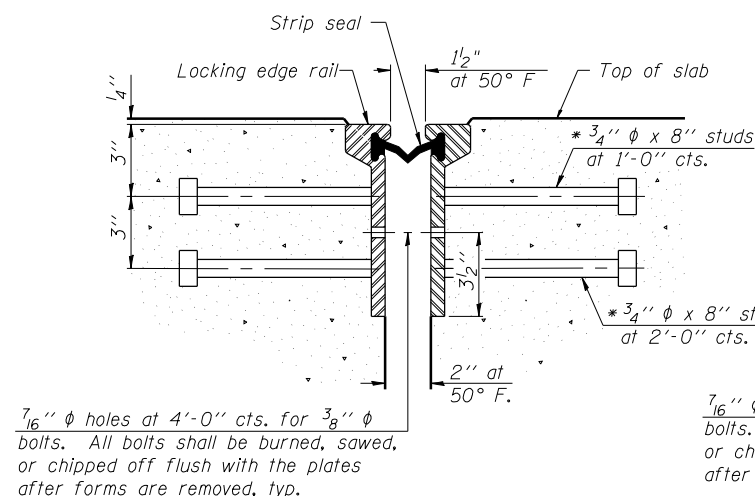
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	33
				CONTRACT NO. 74219
ILLINOIS FED. AID PROJECT				



**TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN**  
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



**Notes:**  
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.  
The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.  
The manufacturer's recommended installation methods shall be followed.  
The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.  
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.  
Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.  
Parapet plates and anchorage studs for skews  $> 30^\circ$  included in the cost of Preformed Joint Strip Seal.



**ROLLED EXTRUDED RAIL WELDED RAIL**

**LOCKING EDGE RAIL SPLICE**

The inside of the locking edge rail groove shall be free of weld residue.  
Rolled rail shown, welded rail similar.

**LOCKING EDGE RAILS**

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	92

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

EJ-SSJ

1-27-12

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL STRUCTURE NO. 093-0025**

SHEET NO. 14 OF 31 SHEETS

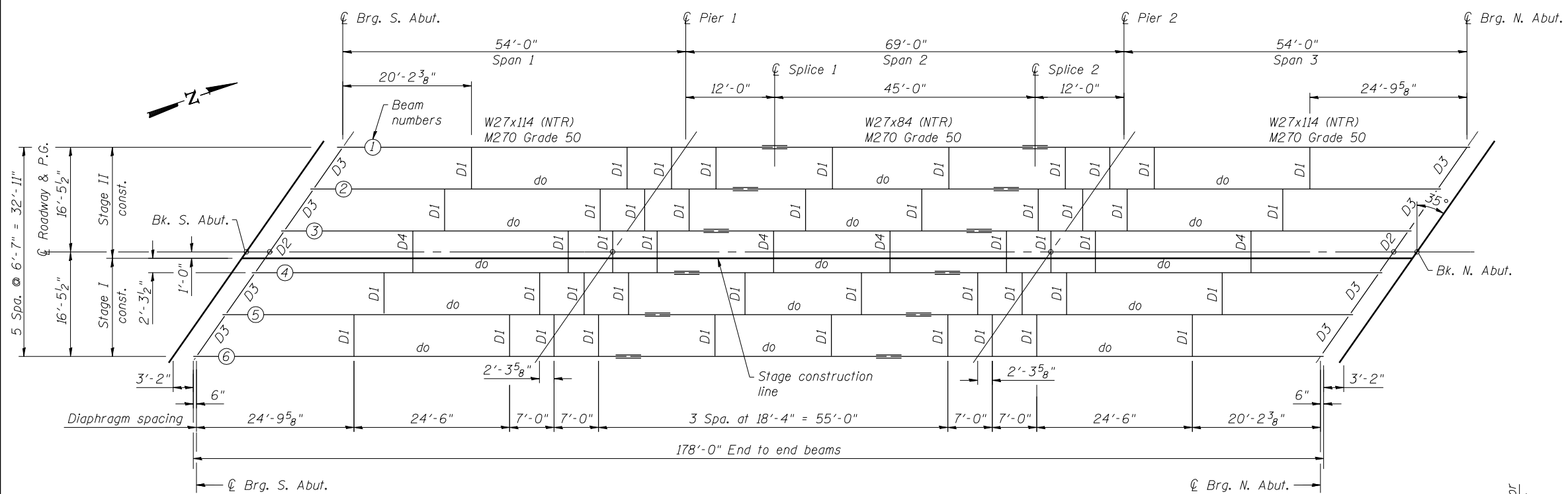
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				CONTRACT NO. 74219
ILLINOIS FED. AID PROJECT				

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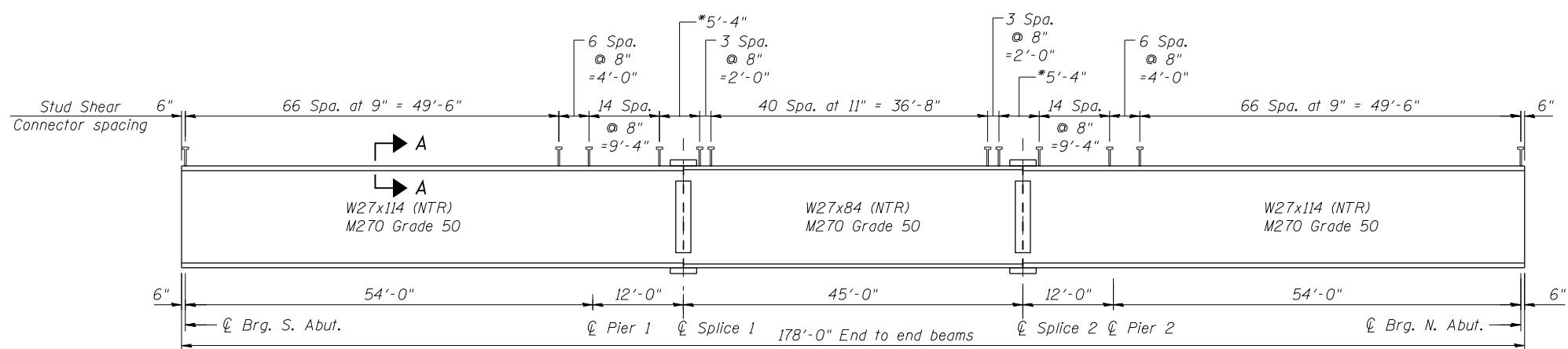


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STEEL FRAMING PLAN

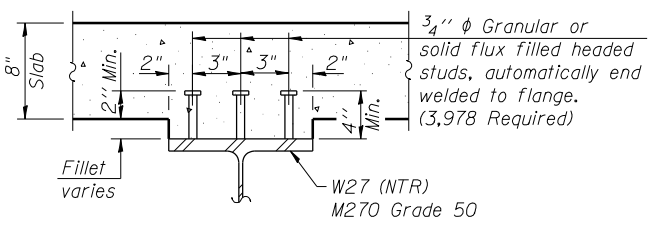


ELEVATION

\* Omit shear connectors over splices

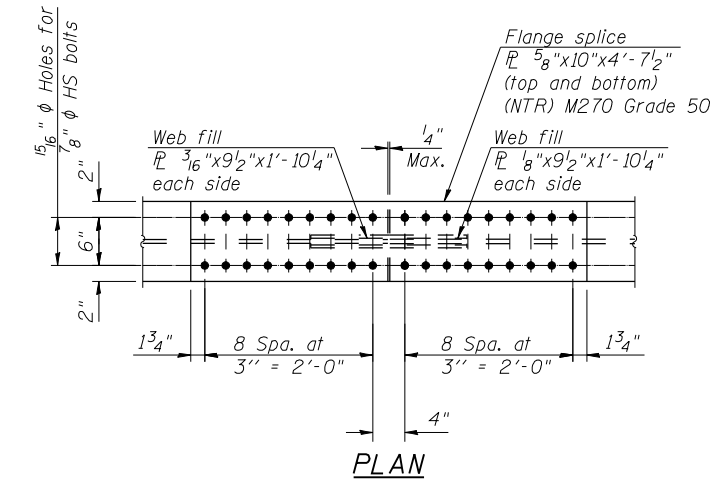
TOP OF BEAM ELEVATIONS  
(For fabrication only)

Beam	¢ Brg. S. Abut.	¢ Pier 1	¢ Splice 1	¢ Splice 2	¢ Pier 2	¢ Brg. N. Abut.
1	409.50	409.60	409.63	409.60	409.56	409.38
2	409.61	409.72	409.75	409.73	409.70	409.54
3	409.69	409.82	409.85	409.84	409.81	409.66
4	409.66	409.81	409.84	409.85	409.82	409.69
5	409.54	409.70	409.73	409.75	409.72	409.61
6	409.38	409.56	409.60	409.63	409.60	409.50

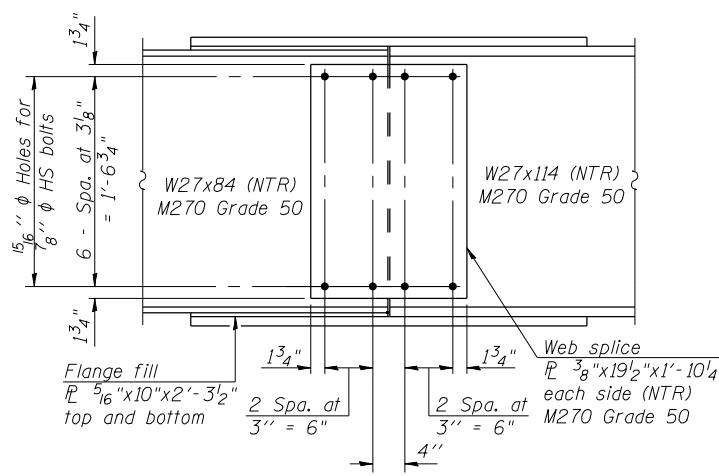


SECTION A-A

Notes:  
Elevations shown do not include deflection and are intended only for use in fabrication of steel beams.  
Elevations at splice locations are top of W27x114 flange (not splice plate).



PLAN



ELEVATION  
SPlice DETAIL  
(12 Required)

Notes:  
See sheet 17 of 31 for steel details.  
All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.  
Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.  
Splice plates shall be M270 Grade 50.

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STEEL FRAMING PLAN  
STRUCTURE NO. 093-0025

F.A.P. R.T.E. 332	SECTION (12,B2)B-1	COUNTY WABASH	TOTAL SHEETS 68	SHEET NO. 36
CONTRACT NO. 74219			ILLINOIS FED. AID PROJECT	

SHEET NO. 16 OF 31 SHEETS

Notes:

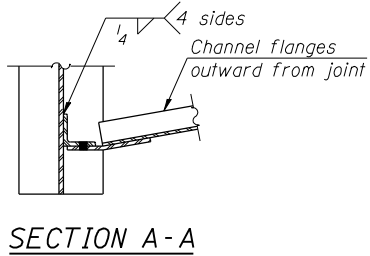
Two hardened washers required for each set of oversized holes.

\*Alternate C12x30 channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.

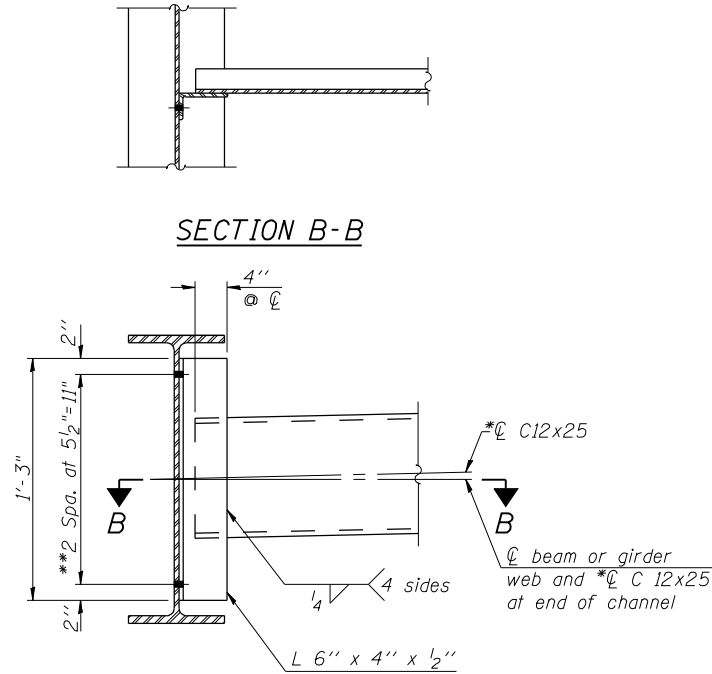
The alternate, if utilized, shall be provided at no additional cost to the Department.

\*\*3/4" φ HS bolts, 15/16" φ holes

\*\*\*Cost of timber block posts is included with structural steel.

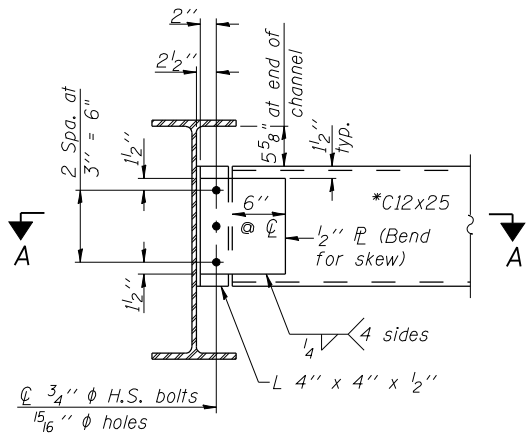


SECTION A-A

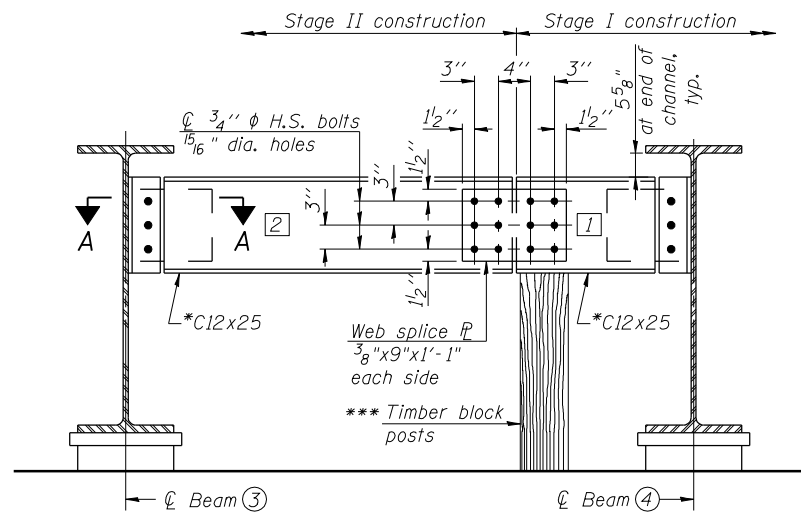


SECTION B-B

INTERIOR DIAPHRAGM D1  
(46 Required)



END DIAPHRAGM D3  
(8 Required)



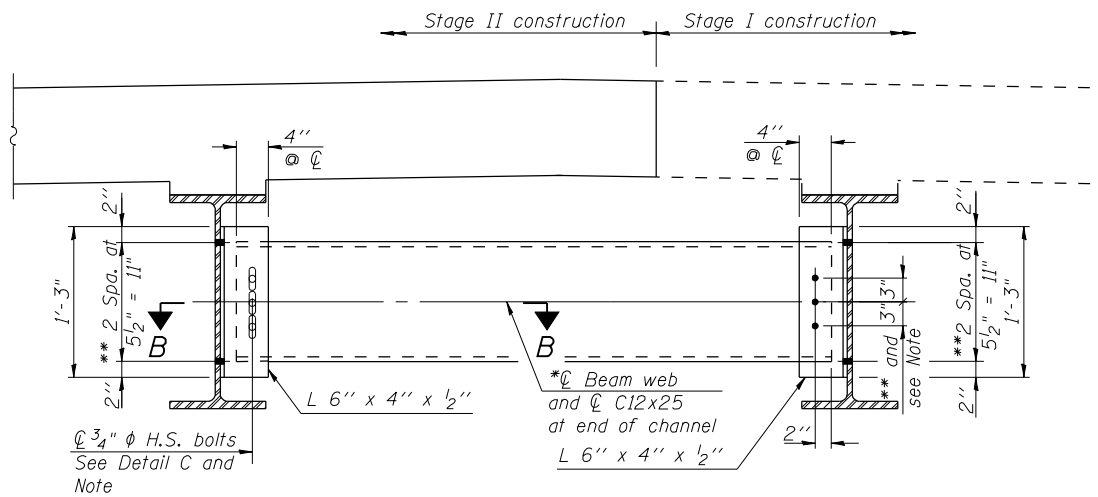
END DIAPHRAGM D2  
(2 Required)

END DIAPHRAGM D2 STAGE  
CONSTRUCTION SEQUENCE

- Order diaphragm in two sections.
- Attach section 1 of diaphragm to beam 4
- Place timber block posts between section 1 of diaphragm and abutment bearing seat.
- Attach section 2 of diaphragm to both beam 3 and section 1 of diaphragm during stage II construction with splice plates.
- Remove timber block posts.

		0.4 Sp. 1 or 0.6 Sp. 3	Piers	0.5 Sp. 2
$I_s$	(in <sup>4</sup> )	4,080	4,080	2,850
$I_c(n)$	(in <sup>4</sup> )	11,926	11,926	9,067
$I_c(3n)$	(in <sup>4</sup> )	8,744	-	6,814
$I_c(cr)$	(in <sup>4</sup> )	-	5,914	-
$S_s$	(in <sup>3</sup> )	299	299	213
$S_c(n)$	(in <sup>3</sup> )	460	460	342
$S_c(3n)$	(in <sup>3</sup> )	414	-	309
$S_c(cr)$	(in <sup>3</sup> )	-	355	-
DC1	(k/')	0.800	0.810	0.790
M <sub>DC1</sub>	(k)	151.9	322.3	147.7
DC2	(k/')	0.150	0.150	0.150
M <sub>DC2</sub>	(k)	28.5	60.1	29.2
DW	(k/')	0.300	0.300	0.300
M <sub>DW</sub>	(k)	56.9	120.2	58.4
M <sub>L + IM</sub>	(k)	591.5	586.2	545.6
M <sub>u</sub> (Strength I)	(k)	1,346.0	1,684.2	1,263.5
φ <sub>r</sub> M <sub>n</sub>	(k)	2,340.5	1,854.1	1,688.3
f <sub>s</sub> DC1	(ksi)	6.10	12.94	8.32
f <sub>s</sub> DC2	(ksi)	0.83	2.03	1.13
f <sub>s</sub> DW	(ksi)	1.65	4.06	2.27
f <sub>s</sub> (L+IM)	(ksi)	15.43	19.82	19.14
f <sub>s</sub> (Service II)	(ksi)	28.63	44.79	36.61
0.95R <sub>n</sub> F <sub>yf</sub>	(ksi)	47.50	47.50	47.50
V <sub>r</sub>	(k)	26.7	25.6	19.6

		Abut.	Piers
R <sub>DC1</sub>	(k)	17.7	55.4
R <sub>DC2</sub>	(k)	3.0	10.3
R <sub>DW</sub>	(k)	5.9	20.7
R <sub>L + IM</sub>	(k)	75.6	100.0
R <sub>Total</sub>	(k)	102.2	186.4



INTERIOR DIAPHRAGM - D4  
(4 Required)

Note:  
Bolts in \*C12x25 shall be finger tightened prior to stage II deck pour to permit differential displacement of beams. Fully tighten after stage II deck pour is complete.

$I_s, S_s$ : Non-composite moment of inertia and section modulus of the steel section used for computing  $f_s$  (Total-Strength I, and Service II) due to non-composite dead loads (in<sup>4</sup> and in<sup>3</sup>).

$I_c(n), S_c(n)$ : Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing  $f_s$  (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in<sup>4</sup> and in<sup>3</sup>).

$I_c(3n), S_c(3n)$ : 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-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).

$I_c(cr), S_c(cr)$ : Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing  $f_s$  (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).

DC1: Un-factored non-composite dead load (kips/ft.).

M<sub>DC1</sub>: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M<sub>DC2</sub>: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M<sub>DW</sub>: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M<sub>L + IM</sub>: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M<sub>u</sub> (Strength I): Factored design moment (kip-ft.).

1.25 (M<sub>DC1</sub> + M<sub>DC2</sub>) + 1.5 M<sub>DW</sub> + 1.75 M<sub>L + IM</sub>

φ<sub>r</sub>M<sub>n</sub>: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).

f<sub>s</sub> DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).

M<sub>DC1</sub> / S<sub>nc</sub>

f<sub>s</sub> DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).

M<sub>DC2</sub> / S<sub>c(3n)</sub> or M<sub>DC2</sub> / S<sub>c(cr)</sub> as applicable.

f<sub>s</sub> DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).

M<sub>DW</sub> / S<sub>c(3n)</sub> or M<sub>DW</sub> / S<sub>c(cr)</sub> as applicable.

f<sub>s</sub> (L+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).

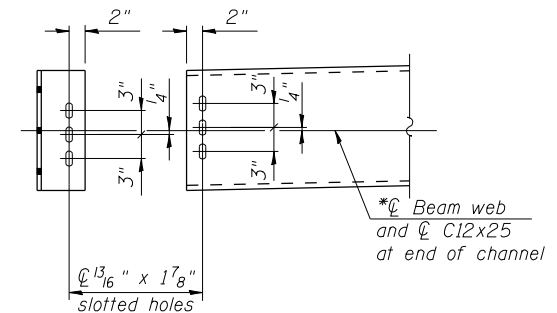
M<sub>L + IM</sub> / S<sub>c(n)</sub> or M<sub>L + IM</sub> / S<sub>c(cr)</sub> as applicable.

f<sub>s</sub> (Service II): Sum of stresses as computed below (ksi).

f<sub>s</sub>DC1 + f<sub>s</sub>DC2 + f<sub>s</sub>DW + 1.3 f<sub>s</sub>(L + IM)

0.95R<sub>n</sub>F<sub>yf</sub>: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

V<sub>r</sub>: Maximum factored shear range in span computed according to Article 6.10.10.



DETAIL C

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L10-ESCA\BATT  
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DATE MADE = 12/1/2011  
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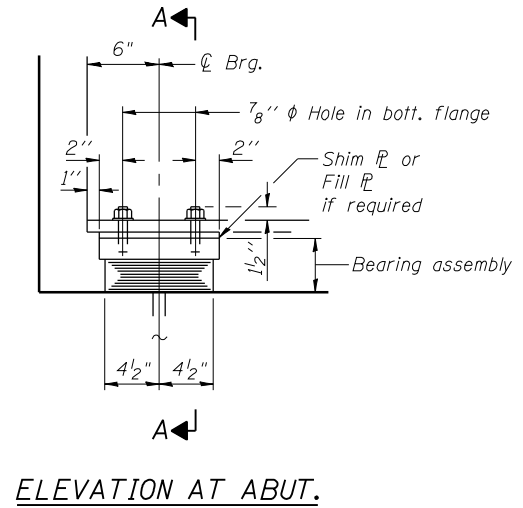
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

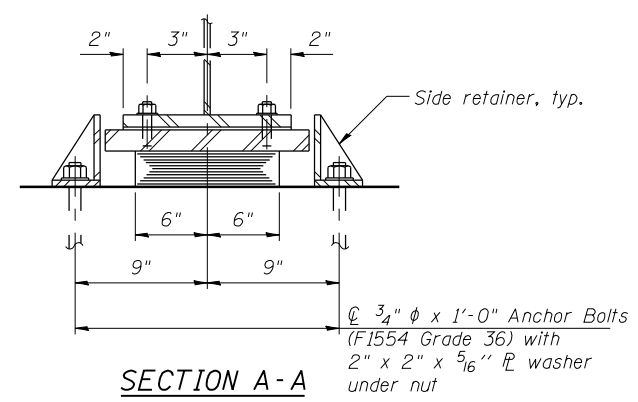
STEEL FRAMING DETAILS  
STRUCTURE NO. 093-0025

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74219				
ILLINOIS FED. AID PROJECT				

SHEET NO. 17 OF 31 SHEETS

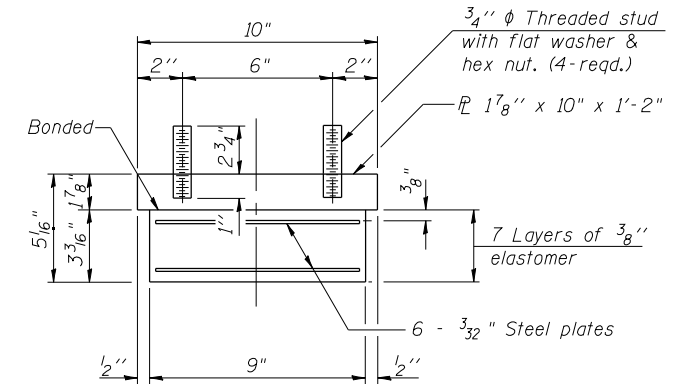


ELEVATION AT ABUT.



SECTION A-A

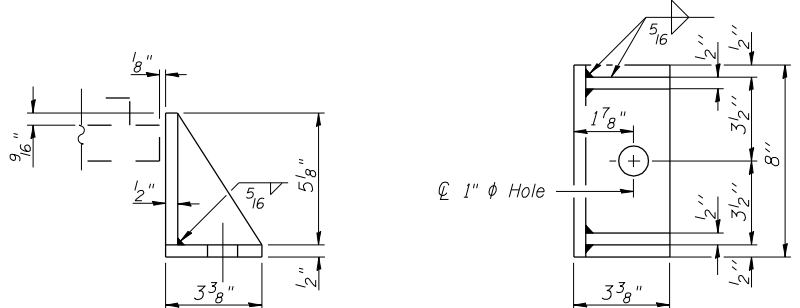
TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

Note:  
Shim plates shall not be placed under bearing assembly.

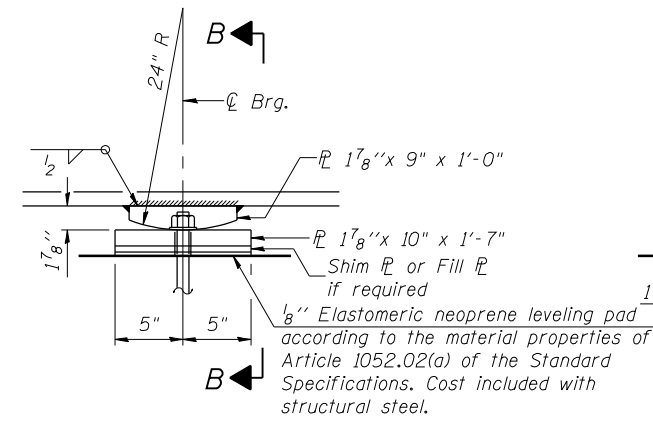
Notes:  
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.  
Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.  
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.  
Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.  
The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.  
Fill plates are required at the locations shown in the table below and shall be placed as shown on bearing details.  
Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.



SIDE RETAINER  
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

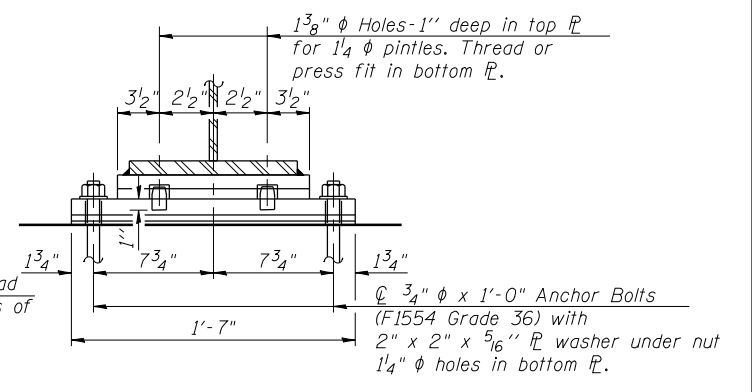
BEARING FILL PLATES

Location	Thickness
South Abutment Beam 3	1"
South Abutment Beam 4	5/8"
Pier 1 Beam 3	1/8"
Pier 2 Beam 4	1/8"
North Abutment Beam 4	1"
North Abutment Beam 3	5/8"

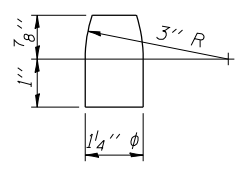


ELEVATION AT PIER

FIXED BEARING



SECTION B-B



PINTLE

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12
Anchor Bolts, 3/4"	Each	48

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SCALE NAME = PLOT  
FILE NAME = 093026-74219-18-B-011.dwg



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS  
STRUCTURE NO. 093-0025

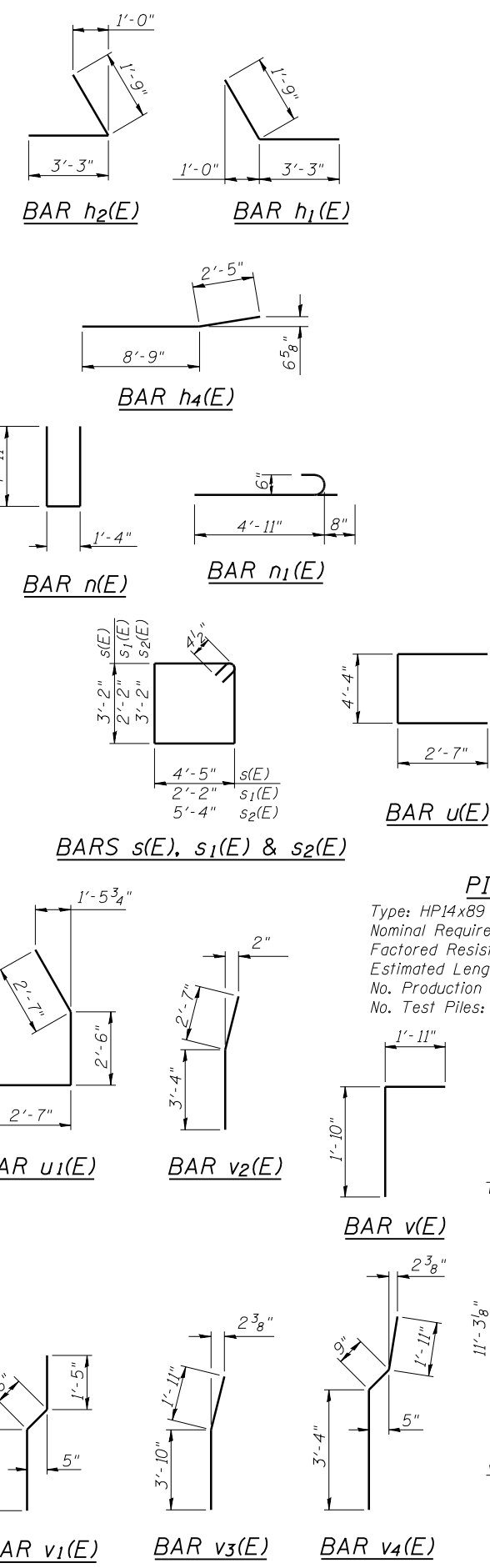
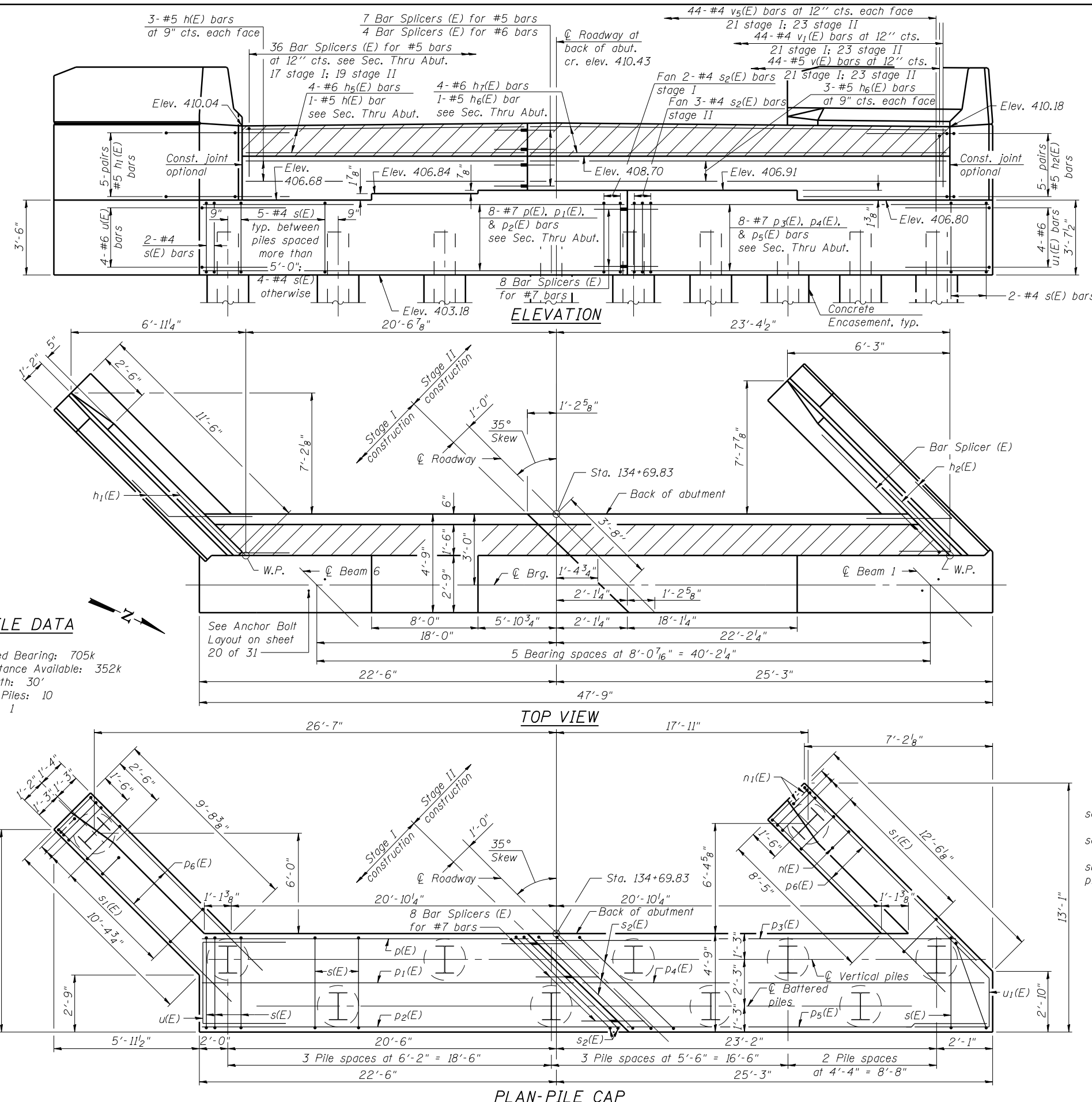
SHEET NO. 18 OF 31 SHEETS

F.A.P. RTE. 332	SECTION (12,B2)B-1	COUNTY WABASH	TOTAL SHEETS 68	SHEET NO. 38
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74219	

**SOUTH ABUTMENT  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	7	#5	20'-4"	
h1(E)	10	#5	5'-0"	
h2(E)	10	#5	5'-0"	
h3(E)	11	#4	11'-11"	
h4(E)	12	#4	11'-2"	
h5(E)	4	#6	20'-4"	
h6(E)	7	#5	22'-9"	
h7(E)	4	#6	22'-9"	
h8(E)	9	#4	10'-4"	
n(E)	18	#6	11'-2"	
n1(E)	12	#6	5'-7"	
p(E)	3	#7	21'-0"	
p1(E)	2	#7	22'-7"	
p2(E)	3	#7	24'-1"	
p3(E)	3	#7	24'-9"	
p4(E)	2	#7	24'-5"	
p5(E)	3	#7	22'-10"	
p6(E)	12	#7	12'-2"	
s(E)	37	#4	15'-11"	
s1(E)	24	#4	9'-5"	
s2(E)	5	#4	17'-9"	
u(E)	4	#6	9'-6"	
u1(E)	4	#6	7'-8"	
v(E)	44	#5	3'-9"	
v1(E)	44	#4	3'-3"	
v2(E)	24	#6	5'-11"	
v3(E)	6	#6	5'-9"	
v4(E)	18	#6	6'-0"	
v5(E)	88	#4	4'-6"	
Structure Excavation		Cu. Yd.	210	
Concrete Structures		Cu. Yd.	46.6	
Reinforcement Bars, Epoxy Coated		Pound	4050	
Furnishing Steel Piles, HP14x89		Foot	300	
Driving Piles		Foot	300	
Test Pile, HP14x89		Each	1	
Concrete Encasement		Cu. Yd.	6.0	
Concrete Sealer		Sq. Ft.	497	
Granular Backfill for Structures		Cu. Yd.	92	
Geocomposite Wall Drain		Sq. Yd.	27	
Pipe Underdrains for Structures 4"		Foot	100	

For details of Bar Splicers, see sheet 25 of 31.  
For details of piles and Concrete Encasement, see sheet 24 of 31.  
For Sec. Thru Abut. and wing wall details, see sheet 21 of 31.  
Concrete Sealer shall be applied to all exposed surfaces of the backwall, bearing seats, and pile cap.  
For location of anchor bolts, see sheet 20 of 31.



**PILE DATA**  
Type: HP14x89  
Nominal Required Bearing: 705k  
Factored Resistance Available: 352k  
Estimated Length: 30'  
No. Production Piles: 10  
No. Test Piles: 1



USER NAME = has	DESIGNED - ELH 12/12	REVISED -
ESCA PROJECT NO. 933.14	CHECKED - RDP 04/13	REVISED -
PLOT SCALE = 3/8" = 1' / IN.	DRAWN - DWH 12/12	REVISED -
PLOT DATE = 6/10/2014	CHECKED - ELH 01/14	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT  
STRUCTURE NO. 093-0025**

SHEET NO. 19 OF 31 SHEETS

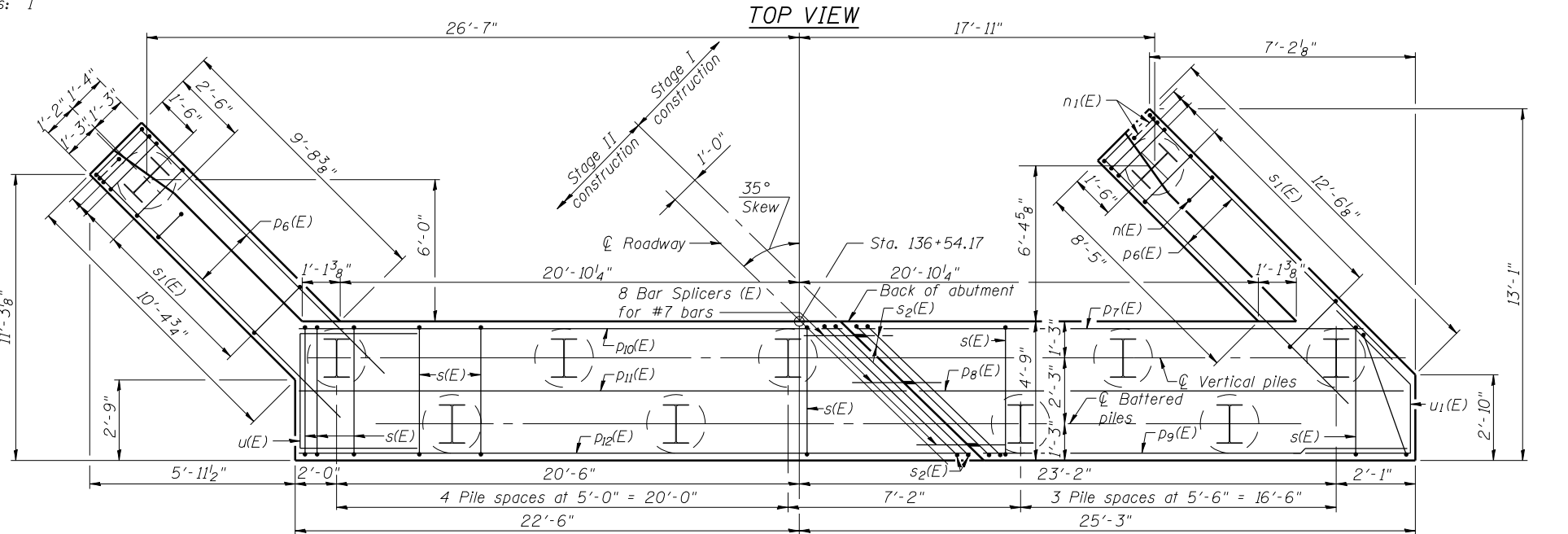
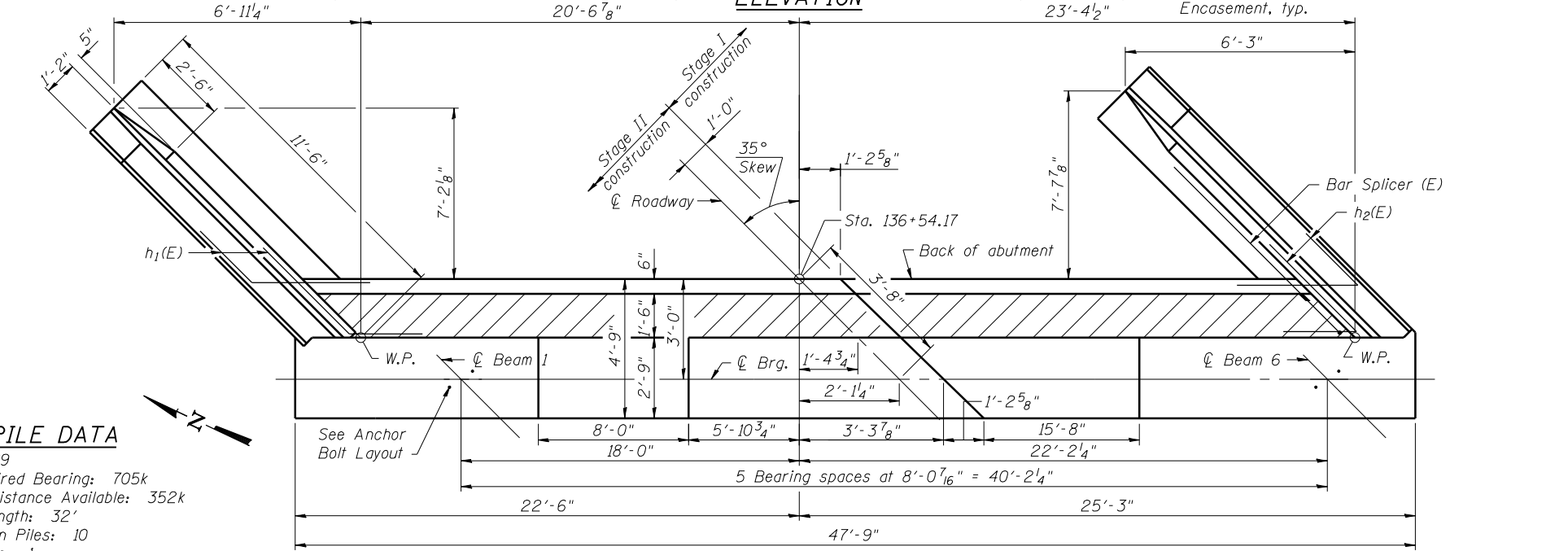
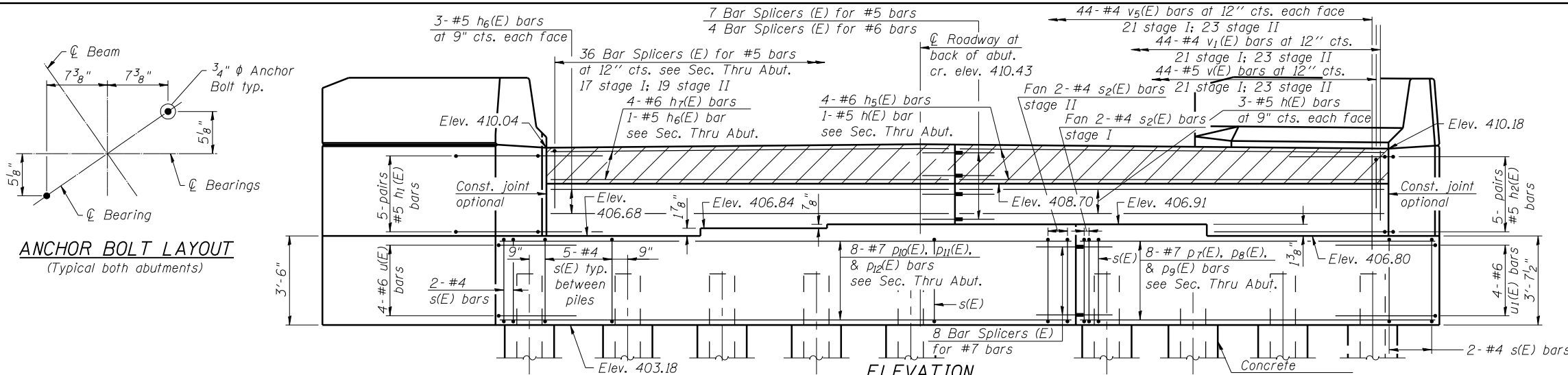
F.A.P. RTE. 332	SECTION (12,B2)B-1	COUNTY WABASH	TOTAL SHEETS 68	SHEET NO. 39
				CONTRACT NO. 74219
ILLINOIS FED. AID PROJECT				



**NORTH ABUTMENT  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	7	#5	20'-4"	
h1(E)	10	#5	5'-0"	
h2(E)	10	#5	5'-0"	
h3(E)	11	#4	11'-11"	
h4(E)	12	#4	11'-2"	
h5(E)	4	#6	20'-4"	
h6(E)	7	#5	22'-9"	
h7(E)	4	#6	22'-9"	
h8(E)	9	#4	10'-4"	
n(E)	18	#6	11'-2"	
n1(E)	12	#6	5'-7"	
p6(E)	12	#7	12'-2"	
p7(E)	3	#7	22'-2"	
p8(E)	2	#7	22'-0"	
p9(E)	3	#7	20'-6"	
p10(E)	3	#7	23'-6"	
p11(E)	2	#7	25'-0"	
p12(E)	3	#7	26'-6"	
s(E)	41	#4	15'-11"	
s1(E)	24	#4	9'-5"	
s2(E)	4	#4	17'-9"	
u(E)	4	#6	9'-6"	
u1(E)	4	#6	7'-8"	
v(E)	44	#5	3'-9"	
v1(E)	44	#4	3'-3"	
v2(E)	24	#6	5'-11"	
v3(E)	6	#6	5'-9"	
v4(E)	18	#6	6'-0"	
v5(E)	88	#4	4'-6"	
Structure Excavation	Cu. Yd.		170	
Concrete Structures	Cu. Yd.		46.6	
Reinforcement Bars, Epoxy Coated	Pound		4080	
Furnishing Steel Piles, HP14x89	Foot		320	
Driving Piles	Foot		320	
Test Pile, HP14x89	Each		1	
Concrete Encasement	Cu. Yd.		6.0	
Concrete Sealer	Sq. Ft.		497	
Granular Backfill for Structures	Cu. Yd.		49	
Geocomposite Wall Drain	Sq. Yd.		27	
Pipe Underdrains for Structures 4"	Foot		90	

For details of Bar Splicers, see sheet 25 of 31.  
For details of piles and Concrete Encasement, see sheet 24 of 31.  
For Sec. Thru Abut. and wing wall details, see sheet 21 of 31.  
Concrete Sealer shall be applied to all exposed surfaces of the backwall, bearing seats, and pile cap.  
For bar bending details, see sheet 19 of 31.



**PILE DATA**  
 Type: HP14x89  
 Nominal Required Bearing: 705k  
 Factored Resistance Available: 352k  
 Estimated Length: 32'  
 No. Production Piles: 10  
 No. Test Piles: 1

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 PLOT SCALE = 0.25" = 1'-0"



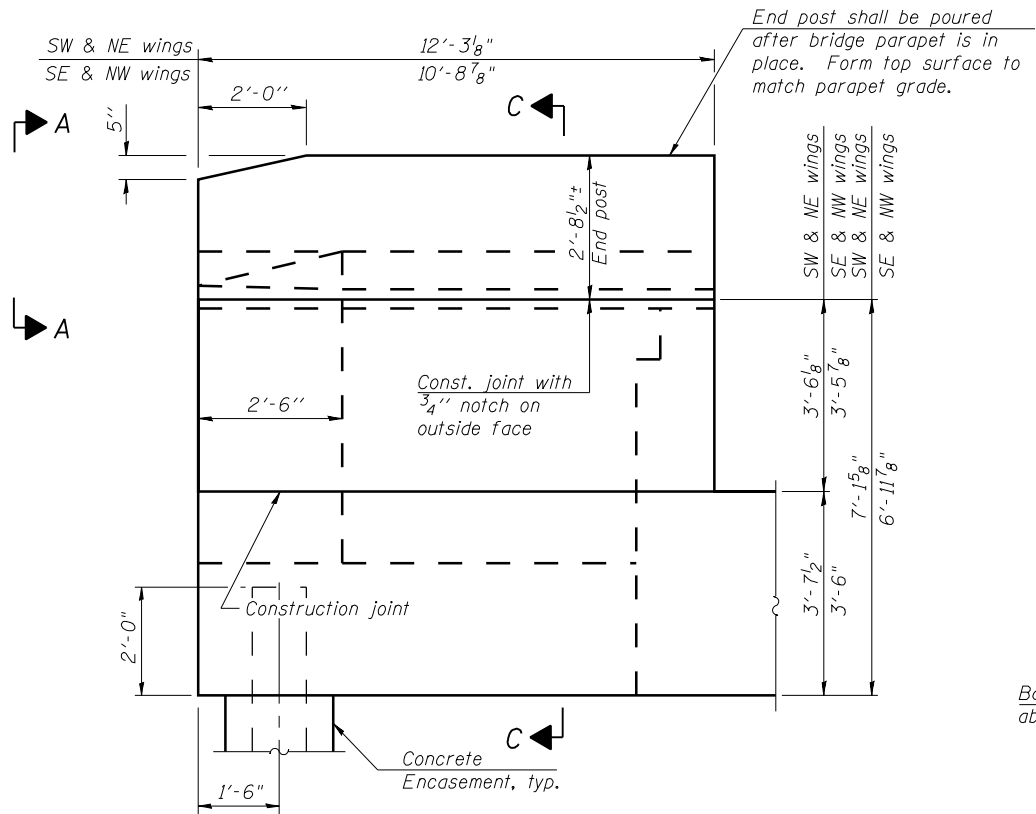
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ESCA PROJECT NO. 0933.14	CHECKED - RDP 04/13	REVISED -
PLOT SCALE = 0.25" = 1'-0"	DRAWN - HAS 03/13	REVISED -
PLOT DATE = 6/10/2014 8:52:52 AM	CHECKED - ELH 01/14	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

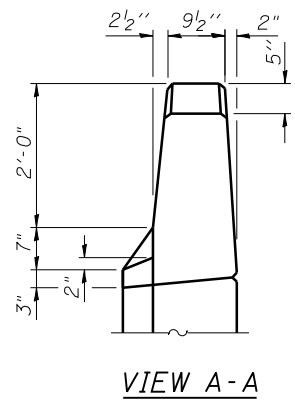
**NORTH ABUTMENT  
STRUCTURE NO. 093-0025**

SHEET NO. 20 OF 31 SHEETS

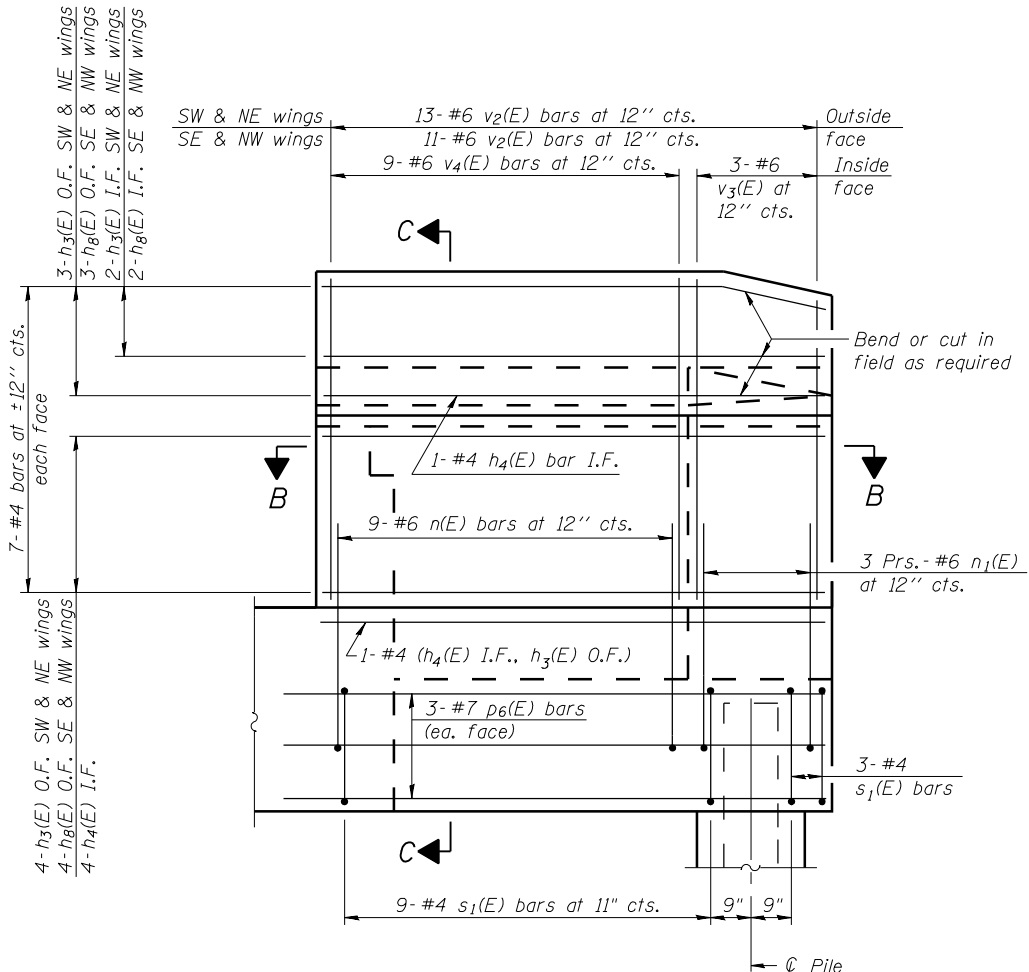
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	40
CONTRACT NO. 74219				
ILLINOIS FED. AID PROJECT				



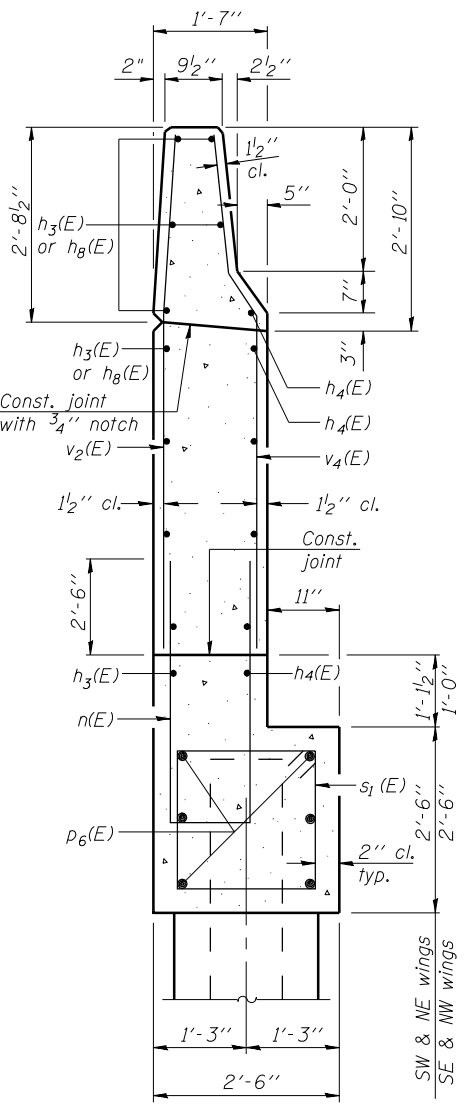
**WING WALL ELEVATION**  
Showing Dimensions



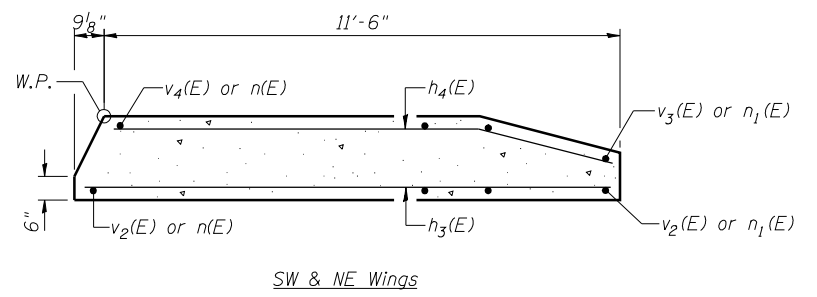
**VIEW A-A**



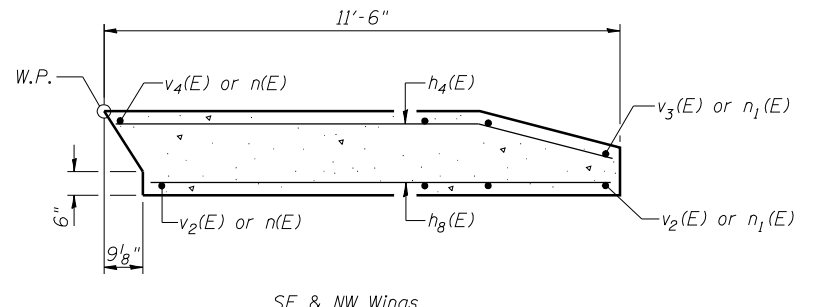
**WING WALL ELEVATION**  
Showing Reinforcement



**SECTION C-C**

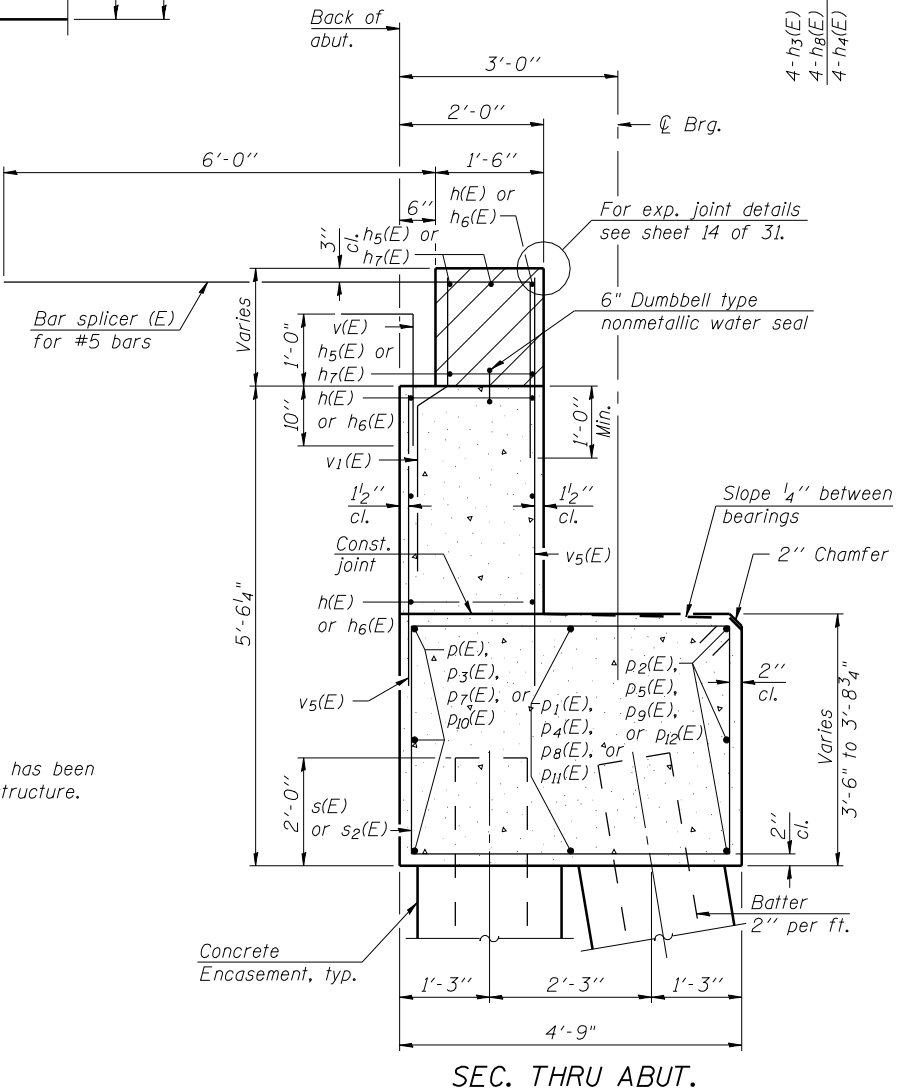


**SW & NE Wings**



**SE & NW Wings**

**SECTION B-B**



**SEC. THRU ABUT.**

**Notes:**  
 Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure. Space reinforcement in cap to miss anchor bolts. Pour steps monolithically with cap. Quantity of concrete in end post included with Concrete Superstructure on sheet 10 of 31. For Concrete Encasement details, see sheet 24 of 31. Space reinforcement in end post to miss bolts for Traffic Barrier Terminal, Type 6.

PRINT DRIVER = LUD-ER-BR-011  
 SCALE MAKE = PLOT  
 FILE NAME = 093314-2219-21-000-01.dwg



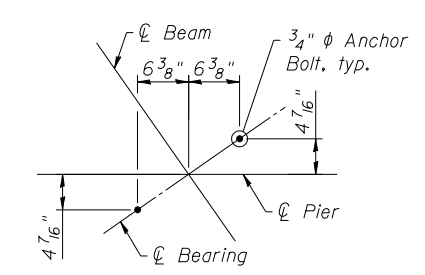
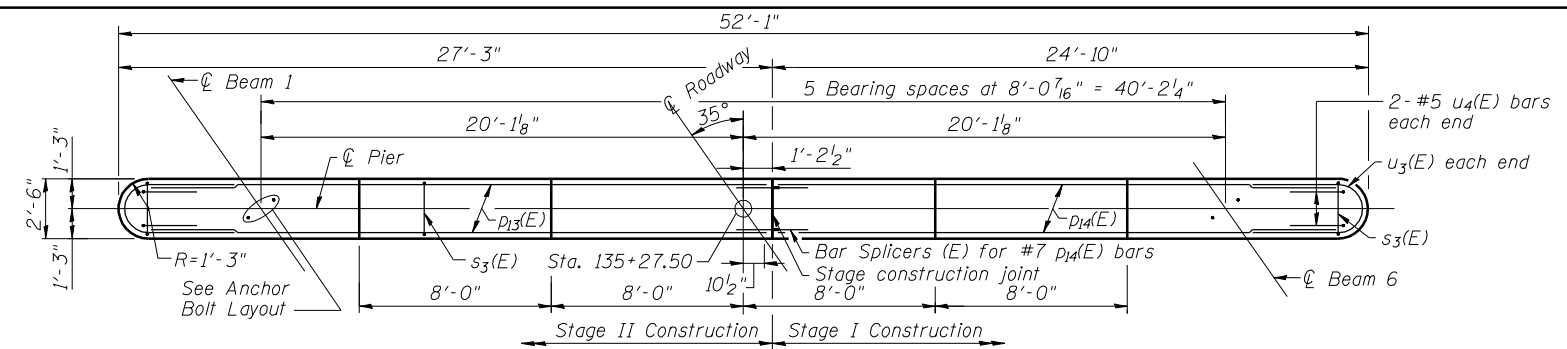
USER NAME = hos	DESIGNED - ELH 12/12	REVISED -
ESCA PROJECT NO. 933.14	CHECKED - RDP 04/13	REVISED -
PLOT SCALE = 1/2" = 1'-0"	DRAWN - DWH 12/12	REVISED -
PLOT DATE = 6/10/2014 8:53:04 AM	CHECKED - ELH 12/12	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ABUTMENT DETAILS**  
**STRUCTURE NO. 093-0025**

SHEET NO. 21 OF 31 SHEETS

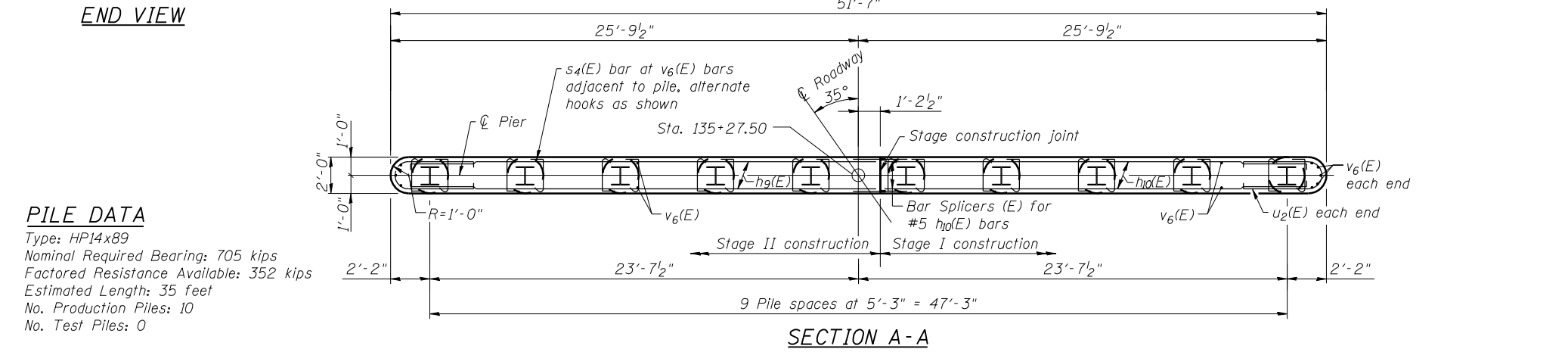
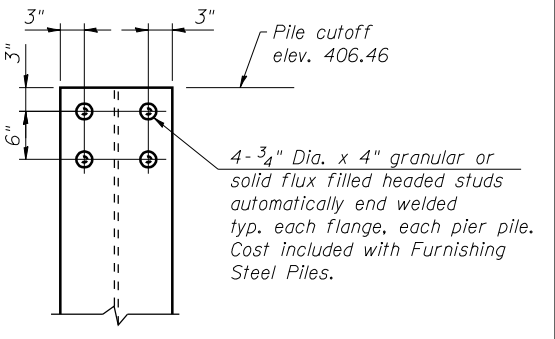
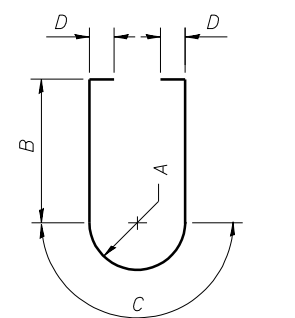
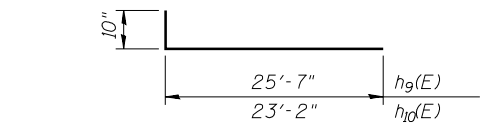
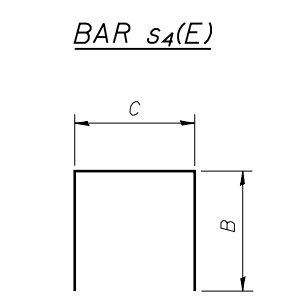
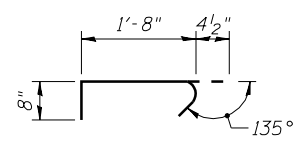
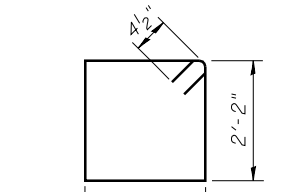
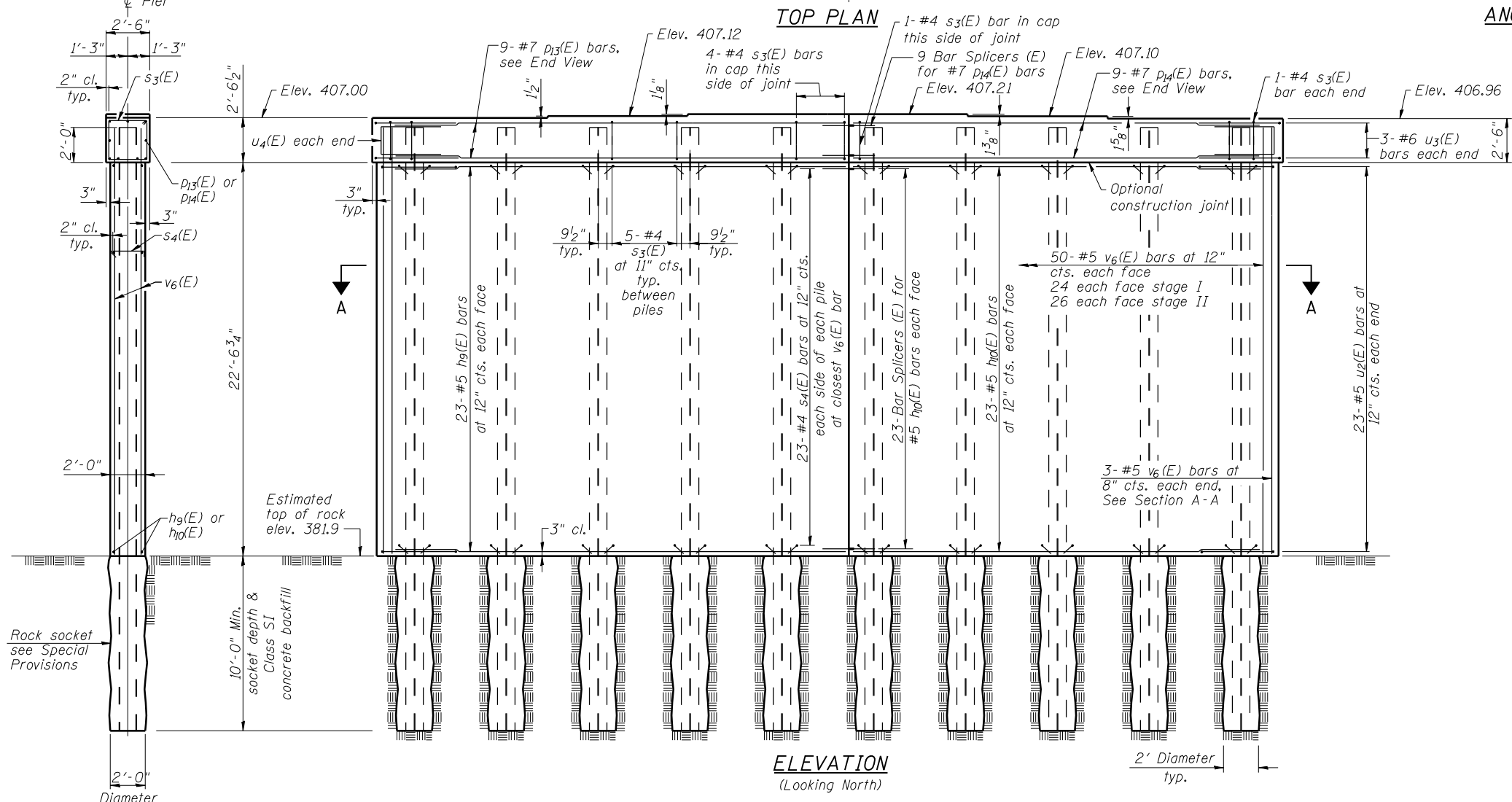
F.A.P. RTE. 332	SECTION (12,B2)B-1	COUNTY WABASH	TOTAL SHEETS 68	SHEET NO. 41
				CONTRACT NO. 74219
ILLINOIS FED. AID PROJECT				



**PIER 1  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
hg(E)	46	#5	26'-5"	—
h0(E)	46	#5	24'-0"	—
p13(E)	9	#7	25'-10"	—
p14(E)	9	#7	23'-5"	—
s3(E)	47	#4	9'-5"	□
s4(E)	460	#4	2'-9"	—
u2(E)	46	#6	8'-8"	—
u3(E)	6	#6	8'-6"	—
u4(E)	4	#5	6'-4"	—
v6(E)	106	#5	24'-5"	—
Cofferdam Excavation	Cu. Yd.	250		
Concrete Structures	Cu. Yd.	98.1		
Reinforcement Bars, Epoxy Coated	Pound	7870		
Furnishing Steel Piles HP14x89	Foot	350		
Cofferdam (Type 2) (Location-1)	Each	1		
Setting Piles in Rock	Each	10		

For details of Bar Splicers, see sheet 25 of 31.  
For details of piles, see sheet 24 of 31.  
Space reinforcement in cap to miss anchor bolts.  
Pour steps monolithically with cap.



**A, B, C, & D DIMENSIONS**

Bar	A	B	C	D
u2(E)	10"	2'-2"	2'-7 3/8"	10"
u3(E)	1'-0 1/2"	2'-7"	3'-3 1/4"	
u4(E)		2'-2"	2'-0"	

**PILE DATA**  
Type: HP14x89  
Nominal Required Bearing: 705 kips  
Factored Resistance Available: 352 kips  
Estimated Length: 35 feet  
No. Production Piles: 10  
No. Test Piles: 0

PRINT DRIVER: LUD-ER-BAR/AL  
SCALE: 1/8" = 1'-0"  
DATE: 6/10/2014



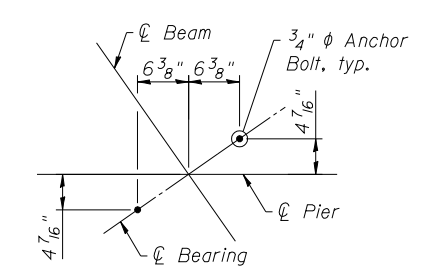
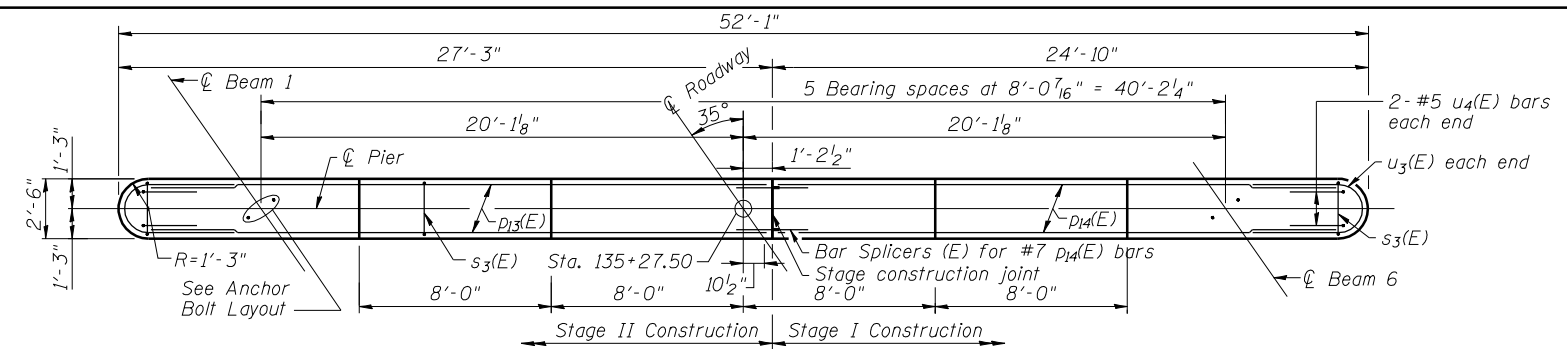
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ESCA PROJECT NO. 933.14	CHECKED - RDP 04/13	REVISED -
PLOT SCALE = 1/8" = 1'-0"	DRAWN - DWH 12/12	REVISED -
PLOT DATE = 6/10/2014 8:53:17 AM	CHECKED - ELH 01/14	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PIER 1  
STRUCTURE NO. 093-0025**

SHEET NO. 22 OF 31 SHEETS

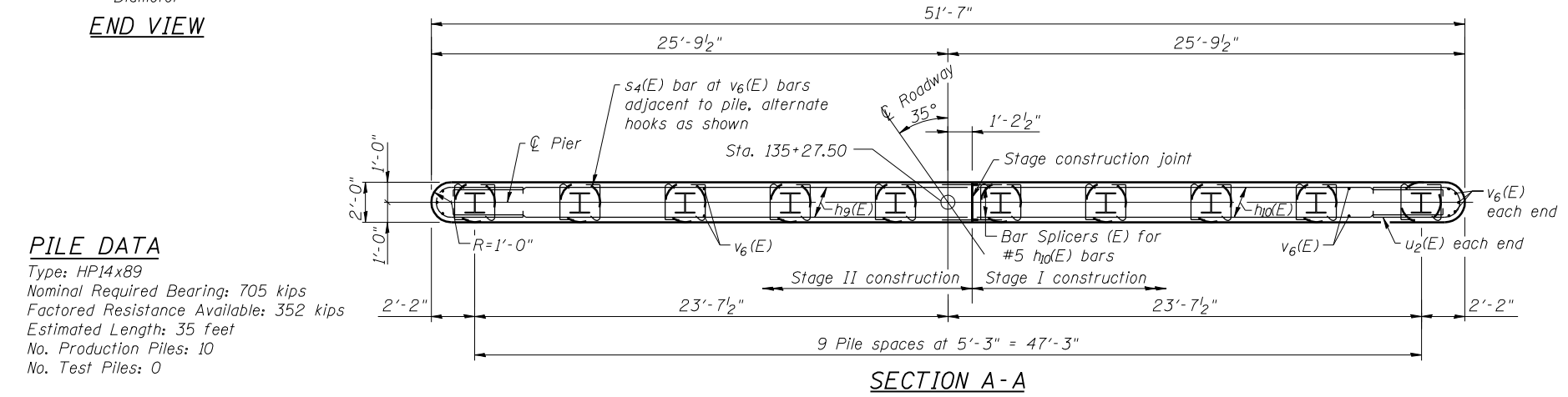
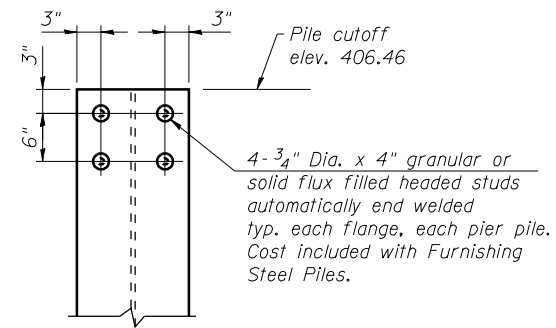
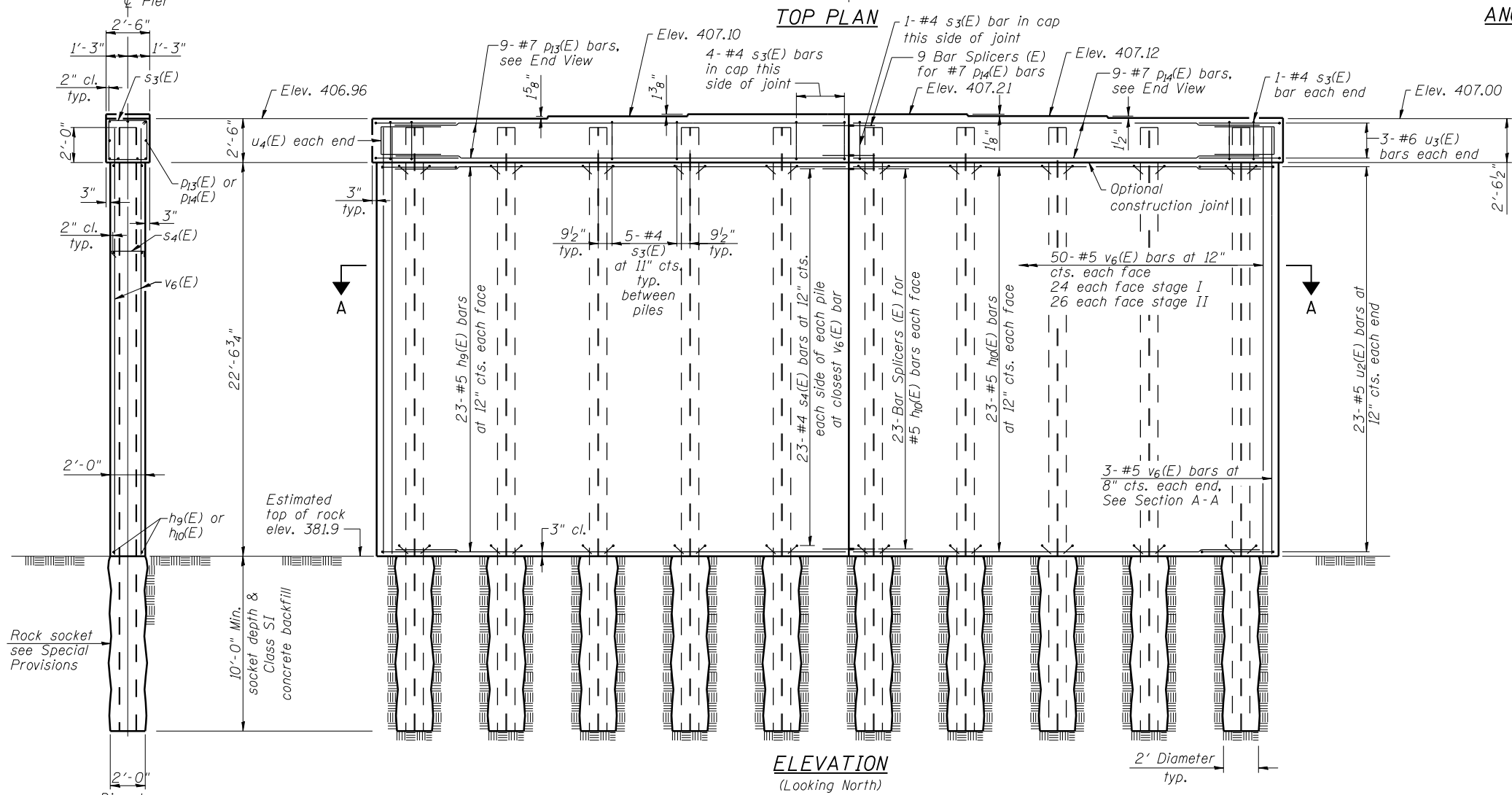
F.A.P. RTE. 332	SECTION (12,B2)B-1	COUNTY WABASH	TOTAL SHEETS 68	SHEET NO. 42
CONTRACT NO. 74219			ILLINOIS FED. AID PROJECT	



**PIER 2  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
hg(E)	46	#5	26'-5"	—
h0(E)	46	#5	24'-0"	—
p13(E)	9	#7	25'-10"	—
p14(E)	9	#7	23'-5"	—
s3(E)	47	#4	9'-5"	□
s4(E)	460	#4	2'-9"	—
u2(E)	46	#6	8'-8"	—
u3(E)	6	#6	8'-6"	—
u4(E)	4	#5	6'-4"	—
v6(E)	106	#5	24'-5"	—
Cofferdam Excavation	Cu. Yd.		270	
Concrete Structures	Cu. Yd.		98.1	
Reinforcement Bars, Epoxy Coated	Pound		7870	
Furnishing Steel Piles HP14x89	Foot		350	
Cofferdam (Type 2) (Location-2)	Each		1	
Setting Piles in Rock	Each		10	

For details of Bar Splicers, see sheet 25 of 31.  
 For details of piles, see sheet 24 of 31.  
 Space reinforcement in cap to miss anchor bolts.  
 Pour steps monolithically with cap.  
 For bar bending details, see sheet 22 of 31.



**PILE DATA**

Type: HP14x89  
 Nominal Required Bearing: 705 kips  
 Factored Resistance Available: 352 kips  
 Estimated Length: 35 feet  
 No. Production Piles: 10  
 No. Test Piles: 0

PRINT DRIVER: LUD-ER-BAR-PAUL  
 LAYOUT: LUD-ER-BAR-PAUL  
 SCALE: 1/8" = 1'-0"  
 FILE NAME: PIER2-23-01-2014.dwg  
 PLOT DATE: 6/10/2014 8:53:29 AM



USER NAME = has	DESIGNED - ELH 12/12	REVISED -
ESCA PROJECT NO. 933.14	CHECKED - RDP 04/13	REVISED -
PLOT SCALE = 1/8" = 1'-0"	DRAWN - DWH 12/12	REVISED -
PLOT DATE = 6/10/2014 8:53:29 AM	CHECKED - ELH 01/14	REVISED -

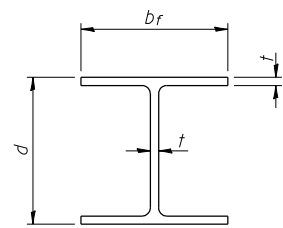
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PIER 2  
STRUCTURE NO. 093-0025**

SHEET NO. 23 OF 31 SHEETS

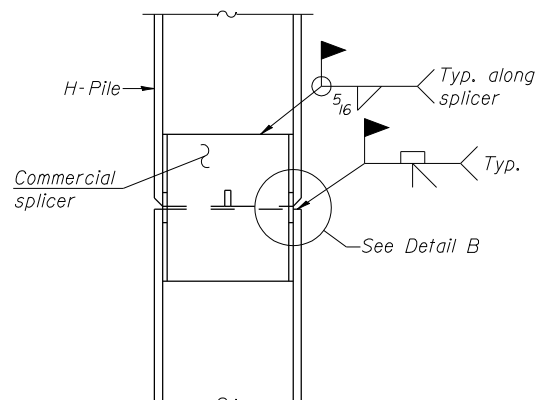
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	43
CONTRACT NO. 74219				

ILLINOIS FED. AID PROJECT

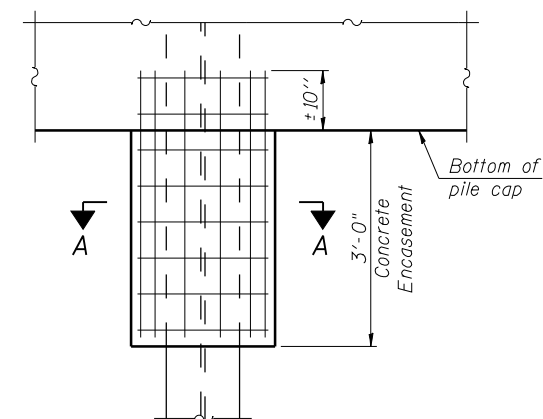


**STEEL PILE TABLE**

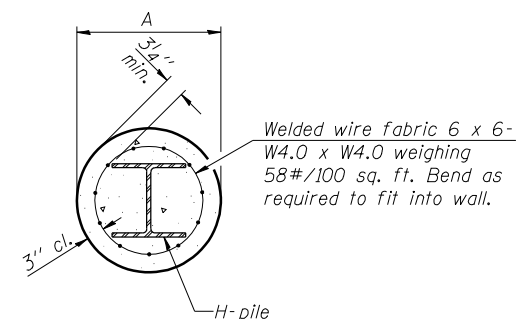
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 3/8"	7/16"	24"
HP 8x36	8"	8 3/8"	7/16"	18"



**ELEVATION**



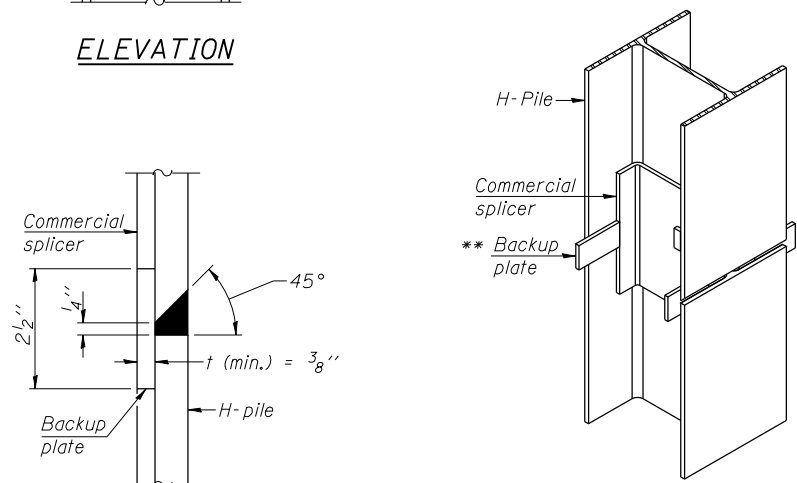
**ELEVATION**



**SECTION A-A**

Note: Forms for encasement may be omitted when soil conditions permit.

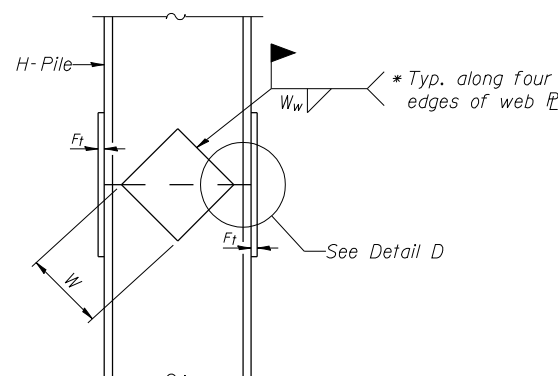
**PILE ENCASEMENT**



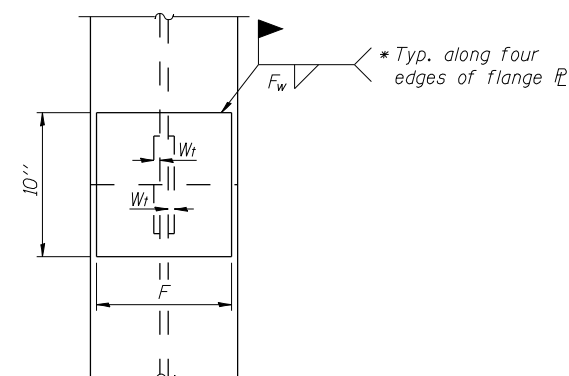
**ISOMETRIC VIEW**

**DETAIL "B"**

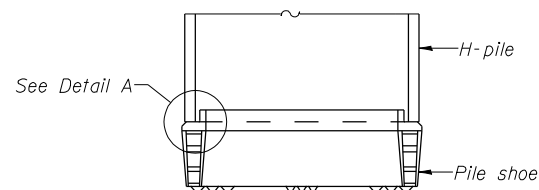
**WELDED COMMERCIAL SPLICE**



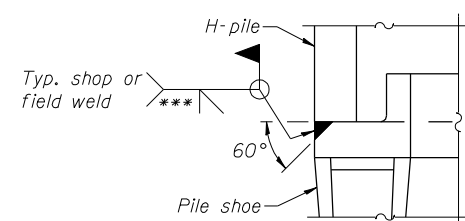
**ELEVATION**



**END VIEW**

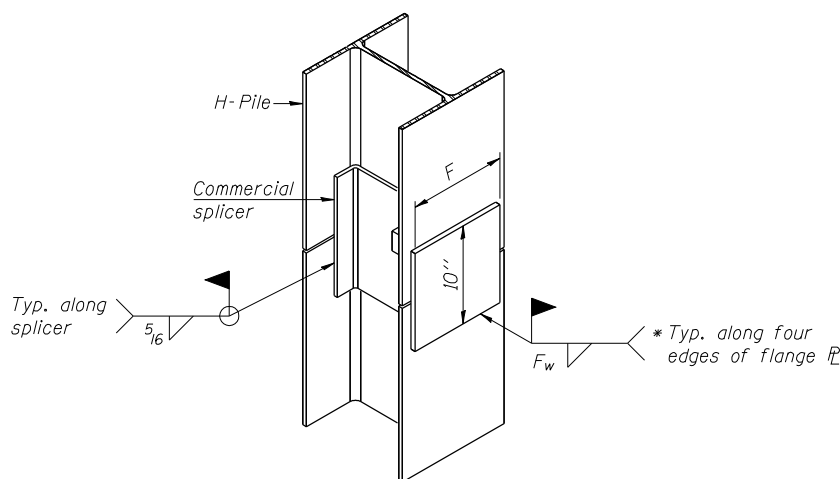


**ELEVATION**



**DETAIL A**

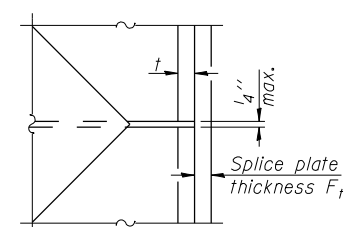
**H-PILE SHOE ATTACHMENT**



**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).



**DETAIL D**

**WELDED PLATE FIELD SPLICE**

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 3/8"	1 1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 3/8"	1 1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5 3/8"	1 1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 3/8"	1 1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5 3/8"	1 1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5 3/8"	1 1/2"
x63	10"	5/8"	1/2"	6 1/2"	1 1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1 1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1 1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1 1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1 1/2"	3/8"

Note: The steel H-piles shall be according to AASHTO M270 Grade 50.

PRINT DRIVER = L:\0-EB\B\B\1  
 ESCA PROJECT NO. 933.14  
 PLOT SCALE = 0.2" = 1'-0"  
 PLOT DATE = 6/10/2014 8:53:42 AM

F-HP 1-27-12



USER NAME = has	DESIGNED - ELH 12/12	REVISED -
ESCA PROJECT NO. 933.14	CHECKED - RDP 04/13	REVISED -
PLOT SCALE = 0.2" = 1'-0"	DRAWN - HAS 12/12	REVISED -
PLOT DATE = 6/10/2014 8:53:42 AM	CHECKED - ELH 12/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

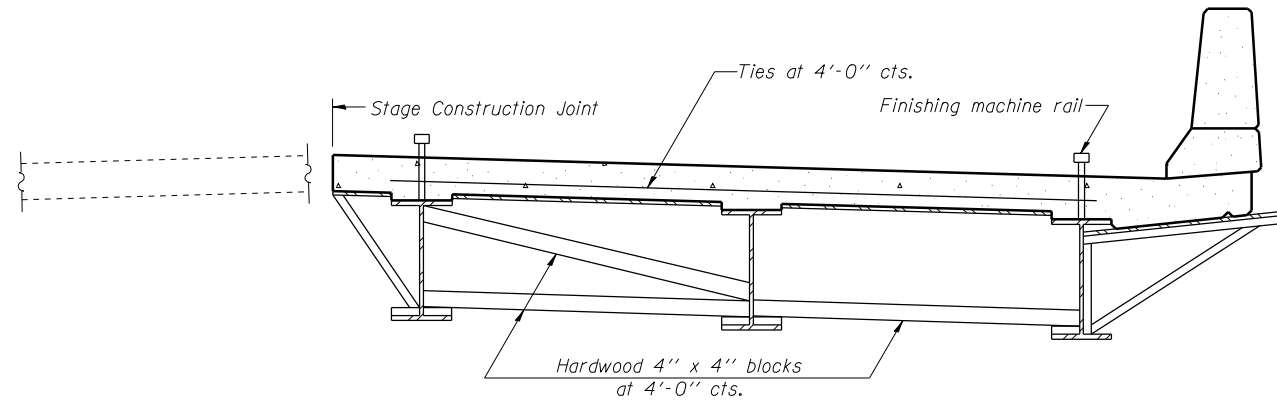
**HP PILE DETAILS  
STRUCTURE NO. 093-0025**

SHEET NO. 24 OF 31 SHEETS

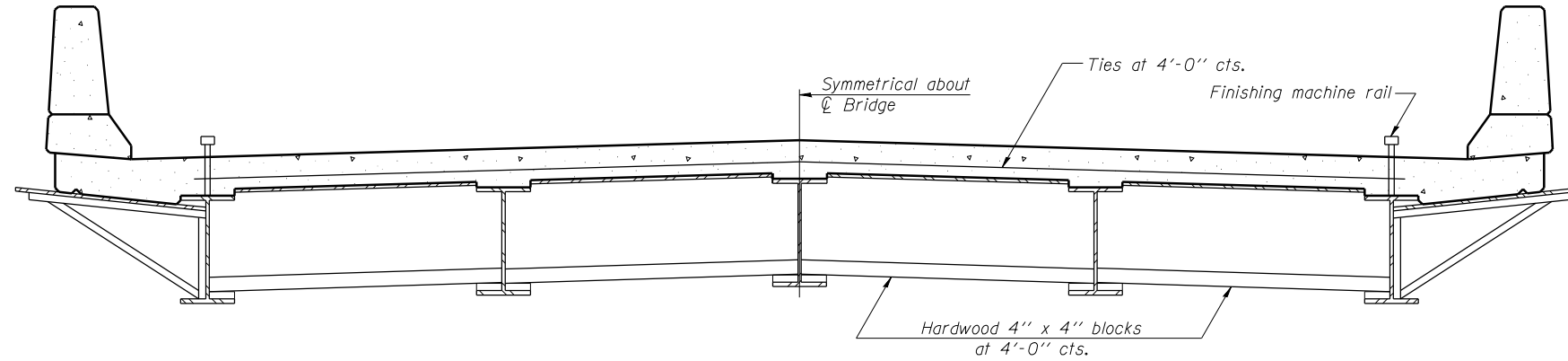
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	44
CONTRACT NO. 74219			ILLINOIS FED. AID PROJECT	



When cantilever forming brackets are used, the work shall be done according to Article 503.06(b) of the Standard Specifications, except as modified below and in the details shown on this sheet.  
 The finishing machine rails shall be placed on the top flange of the exterior beams.  
 The beams or girders, supporting cantilever forming brackets, shall be tied together at 4 foot intervals.  
 For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.



**FORM BRACES FOR  
STAGE CONSTRUCTION**



**FORM BRACES FOR  
STANDARD CONSTRUCTION**

PRINT DRIVER = L:\05-ELH\B\14  
 USER NAME = RDP  
 PLOT DATE = 6/10/2014 8:54:08 AM  
 FILE NAME = 093314-2219-26-FormBrackets.dwg

SB-1

7-1-10



USER NAME = hos	DESIGNED - ELH 05/11	REVISED -
ESCA PROJECT NO. 933.14	CHECKED - RDP 04/13	REVISED -
PLOT SCALE = 0.2" = 1' / IN.	DRAWN - DWH 05/11	REVISED -
PLOT DATE = 6/10/2014 8:54:08 AM	CHECKED - ELH 05/11	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CANTILEVER FORMING BRACKETS FOR SUPERSTRUCTURES WITH  
W27 BEAMS AND SMALLER STRUCTURE NO. 093-0025**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	46
CONTRACT NO. 74219			ILLINOIS FED. AID PROJECT	

SHEET NO. 26 OF 31 SHEETS



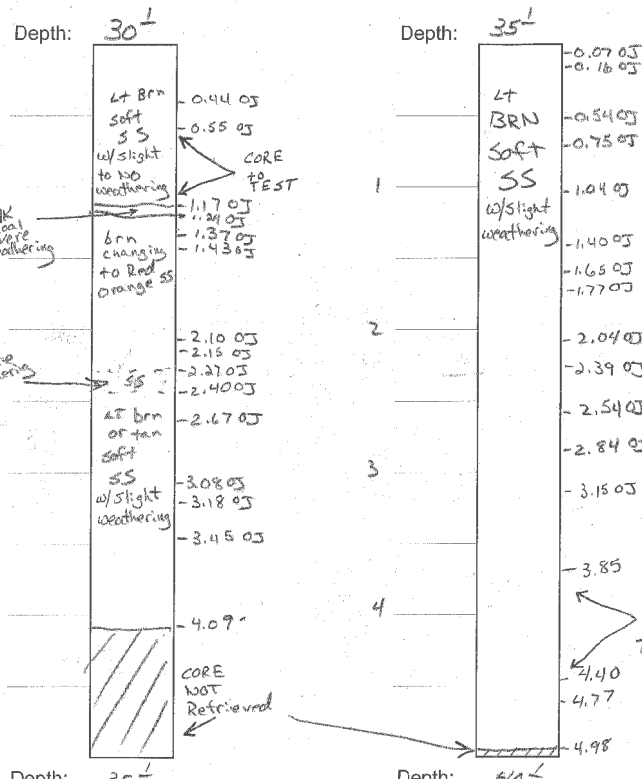


Field Rock Core Log

Date: 4-09-09

Structure #: 093-0003 Boring #: 1

Rock Core #: B1C1 Rock Core #: B1C2



RQD  
 0.44  
 0.60  
 0.78  
 0.39  
 0.60  
 ---  
 2.73

RQD  
 0.37  
 0.36  
 0.35  
 1.60  
 ---  
 2.68

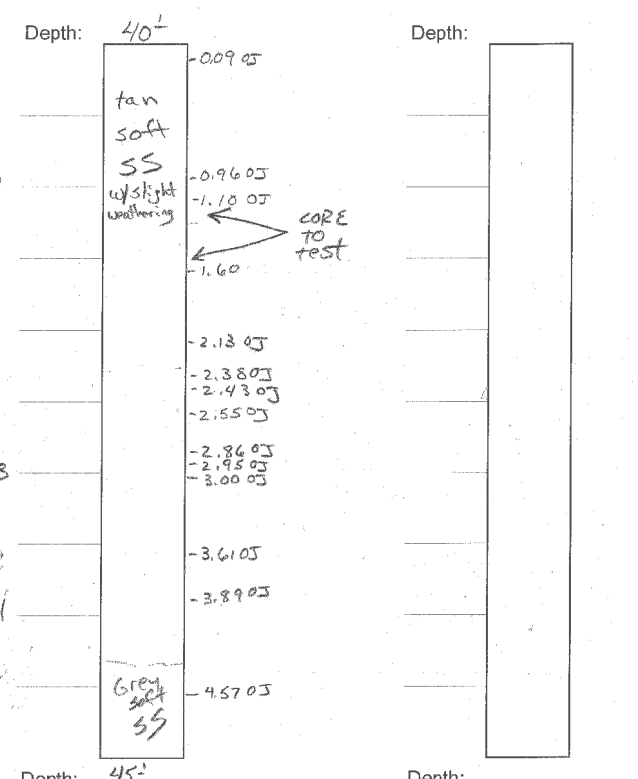
Depth: 35' Core Time: 1 min 0 sec Recovery: 84.8% RQD: 54.6%  
 Depth: 40' Core Time: 1 min Recovery: 99.6% RQD: 53.6%  
 Logged By: Eric Sandschafer

Field Rock Core Log

Date: 4-09-09

Structure #: 093-0003 Boring #:

Rock Core #: B1C3 Rock Core #:



RQD  
 0.87  
 0.50  
 0.53  
 1.57  
 ---  
 3.47

Depth: 45' Core Time: 1 min 25 sec Recovery: 100% RQD: 69.4%  
 Logged By: Eric Sandschafer

PRINT DRIVER: L:\ESB\B1C1...  
PLOT SCALE: 1/4" = 1'-0"  
FILE NAME: 093093-74219-28.dwg



USER NAME = has	DESIGNED - ELH 12/12	REVISED -
ESCA PROJECT NO. 933.14	CHECKED - RDP 04/13	REVISED -
PLOT SCALE = 1/4" = 1'-0"	DRAWN - DWH 12/12	REVISED -
PLOT DATE = 6/10/2014 8:54:35 AM	CHECKED - ELH 12/12	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS  
STRUCTURE NO. 093-0025

SHEET NO. 28 OF 31 SHEETS

F.A.P. RTE. 332	SECTION (12, B2)B-1	COUNTY WABASH	TOTAL SHEETS 68	SHEET NO. 48
CONTRACT NO. 74219				ILLINOIS FED. AID PROJECT





Field Rock Core Log a.xls

### Field Rock Core Log

Date: 4-14-09

Structure #: 093-0003

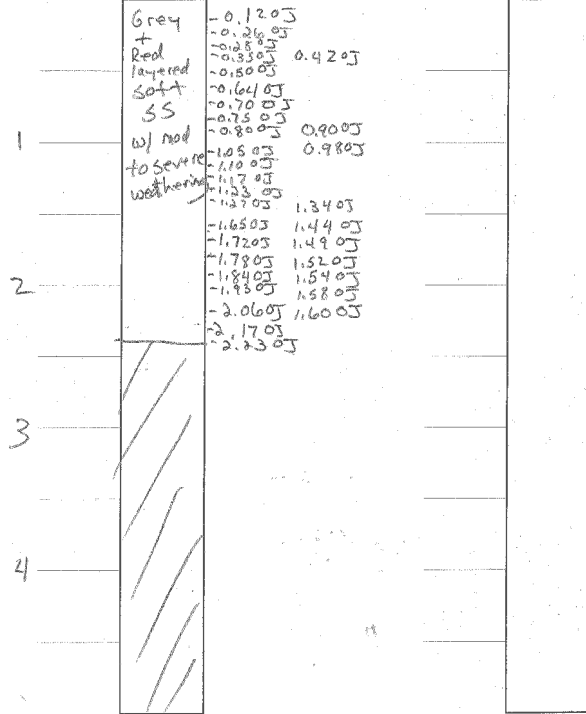
Boring #: B3

Rock Core #: B3C3

Rock Core #: \_\_\_\_\_

Depth: 40<sup>z</sup>

Depth: \_\_\_\_\_



Depth: 4.5<sup>z</sup>

Depth: \_\_\_\_\_

Core Time: 1 min 30 sec

Core Time: \_\_\_\_\_

Recovery: 44.6%

Recovery: 1

RQD: 0%

RQD: \_\_\_\_\_

Logged By: Eric Sandschafer

PRINT DRIVER = L:\ESCA\B3\B3C3\B3C3.dwg  
 PLOT SCALE = 1/4" = 1'-0"  
 PLOT DATE = 6/10/2014 8:55:22 AM



USER NAME = has	DESIGNED - ELH 05/11	REVISED -
ESCA PROJECT NO. 933.14	CHECKED - RDP 04/13	REVISED -
PLOT SCALE = 1/4" = 1'-0"	DRAWN - DWH 05/11	REVISED -
PLOT DATE = 6/10/2014 8:55:22 AM	CHECKED - ELH 05/11	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BORING LOGS  
 STRUCTURE NO. 093-0025**

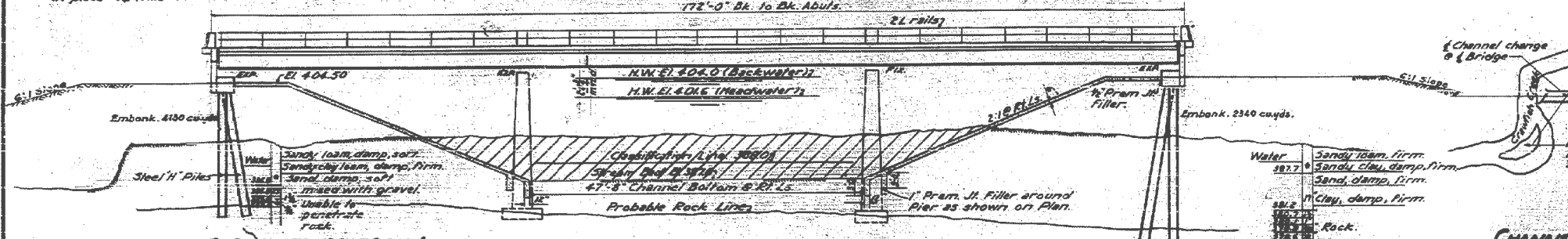
SHEET NO. 31 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	51
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74219	

B.M. 3 1/2 W in North side of leaning Twin Mast  
 100' East of Sta. 135+20, El. 336.72 ± E. 336.35 U.S.G.S. Datum  
 Existing Structure: R.C. Trestle Girder 13 span @ 50'. Roadway 20'  
 on solid concrete abutments on rock. Bridge to remain  
 in place 1/4 mile downstream from Proposed Structure.

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
12-B-2	Webash	11	5	6 SHEETS



CHANNEL CHANGE SKETCH LOCATION SKETCH

**GENERAL NOTES**

Class X concrete shall be used throughout except in hand rails and piers.

Class A concrete shall be used in piers.

The concrete floor slab shall be finished in accordance with Article 5118 (a) of the Standard Specifications.

Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, #4 wires, weighing 58 # per 100 sq. ft. Layout of slope walls may be varied to suit ground conditions in the field as directed by the Engineer.

Rivets 3/4" φ, open holes 3/4" φ, unless noted.

Field connections riveted, unless noted.

Railings shall be adjusted to true alignment after curbs have been poured.

All rollers, rockers, bearing plates, lead plates, pintles and anchor bolts shall be fabricated and set in accordance with Article 5114 of the Standard Specifications and are included for payment as Structural Steel.

Anchor bolts shall be set before riveting diaphragms over supports.

The roadway expansion plate shall be fabricated and erected to fit the crown of roadway.

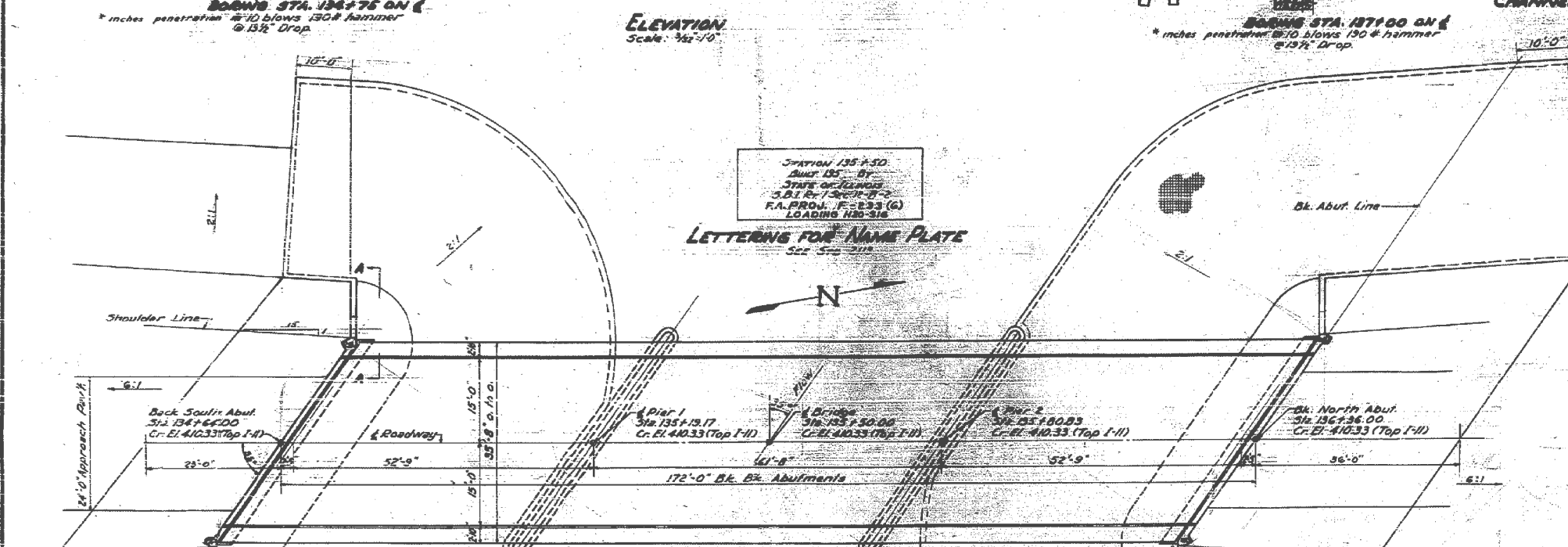
Expansion guards are included for payment as Structural Steel.

The following surfaces of expansion guards shall be given two shop coats of red lead paint and two field coats of aluminum paint, 37 1/2 to 50% inclusive of the Standard Specifications.

All paint shall be furnished and applied by the Contractor.

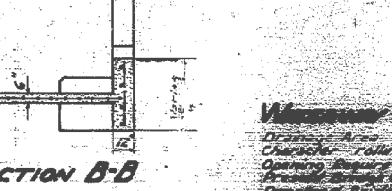
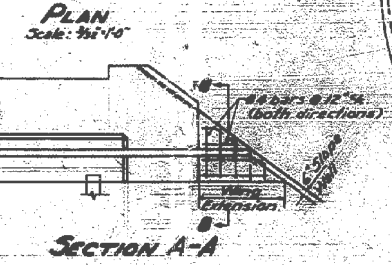
The Contractor shall drive one test pile in a permanent location as directed by the Engineer before ordering remainder of piles.

Boring Data are shown on the drawings only as a guide to bidders in estimating soil conditions which may be encountered in the work.



Station 135+50  
 State of Illinois  
 S.B.I. Rt. 1 Sec. 12-B-2  
 F.A. Proj. F-233 (6)  
 Loading H20-516-44

LETTERING FOR NAME PLATE  
 See Spec 2118



**DESIGN STRESSES**

f<sub>c</sub> = 1400 p.s.i. (Superstructure)  
 f<sub>c</sub> = 800 p.s.i. (Substructure)  
 f<sub>s</sub> = 18000 p.s.i. (Structural)  
 f<sub>s</sub> = 20000 p.s.i. (Reinforcement)  
 n = 10

**TOTAL BILL OF MATERIAL**

Item	Quantity	Supers. Substr.	Total
Class X Concrete	Cu. Yds.	163.0	278.1
Class A Concrete	Cu. Yds.	254.2	254.2
Reinforcement Bars	Lbs.	30034	4186
Structural Steel	Lbs.	178770	178770
Metal Handrail	Lin. Ft.	340	340
Slope wall	Sq. Yds.		2082
Name Plates	Each		One
Class B Excavation for Structure	Cu. Yds.	118	118
Rock Excavation	Cu. Yds.	25	25
Steel Piles	Lin. Ft.		299
Test Piles (Steel)	Each	088	088
Handrail Concrete	cu. yds.	0.5	0.5

GENERAL PLAN & ELEVATION  
 BRIDGE OVER CRAWFISH CREEK  
 S.B.I. RT. 1 SEC. 12-B-2  
 WABASH COUNTY  
 STATION 135+50

DESIGNED Frank A. Curcull  
 CHECKED Robert A. Kowalski  
 DRAWN J. Garcia  
 CHECKED P.D.C.

EXAMINED M. M. Corrine  
 PASSED J. J. Corrine  
 APPROVED R. H. Bostrom

JUNE 2 1955

Welded Wire Fabric 6"x6" Mesh No. 4 wires Wt. 58#/100'

**WARNING INFORMATION**

Designs in yellow color are preliminary construction  
 Openings require 2" (3" for 1000) 1/2" Prsm. Jt. Filler  
 Proposed Bridge (below Westwater) 1033'

Key 2-70-55

Loading H20-516-44



USER NAME = has	DESIGNED - MTD	REVISED -
ESCA PROJECT NO. 933.14	CHECKED - RDP	REVISED -
PLOT SCALE = 0.1667 / IN.	DRAWN - HAS	REVISED -
PLOT DATE = 6/10/2014 8:42:38 AM	CHECKED - 01/31/13	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - SN 093-0003  
 FOR INFORMATION ONLY

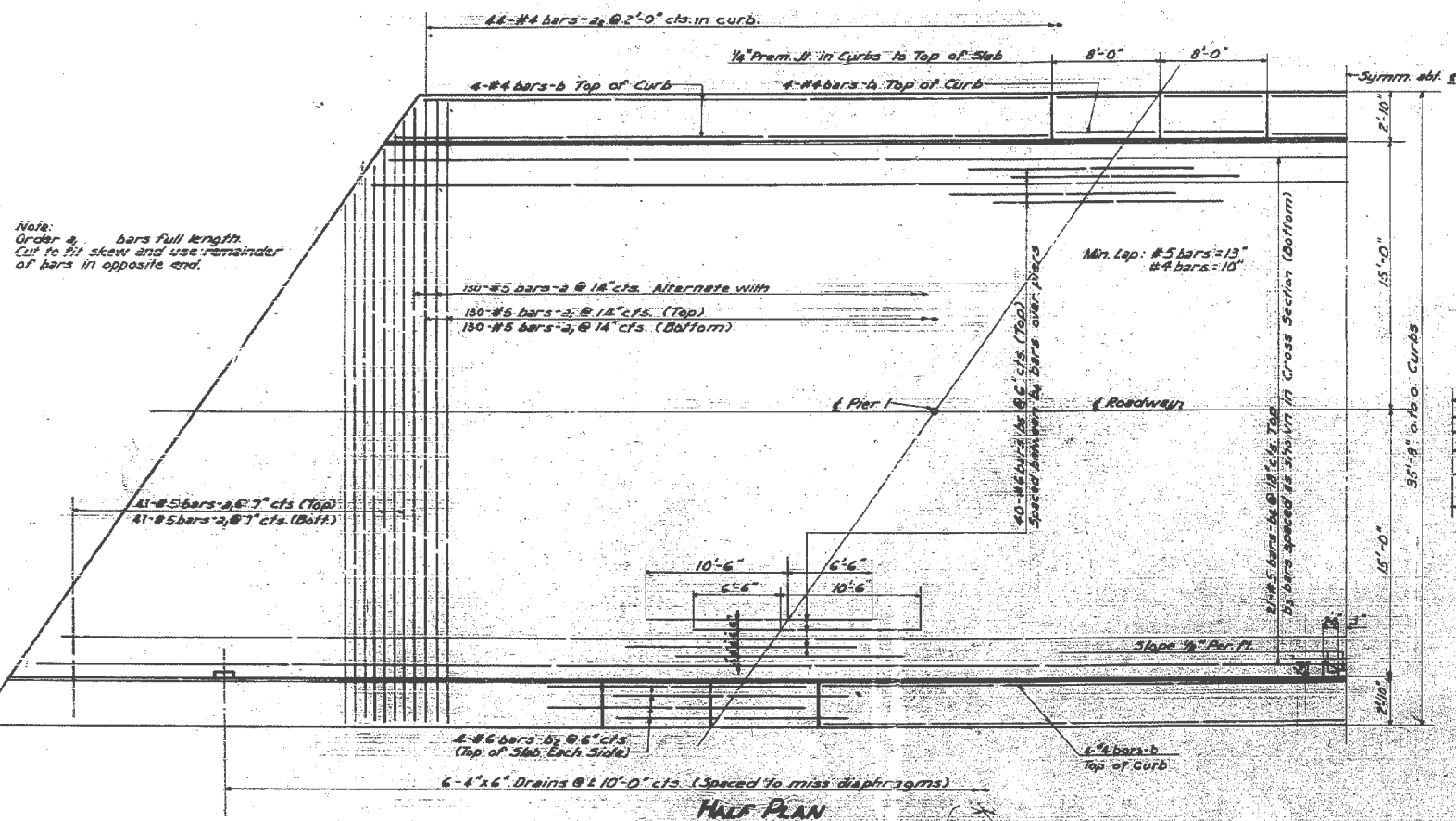
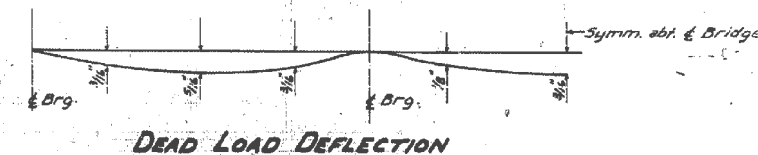
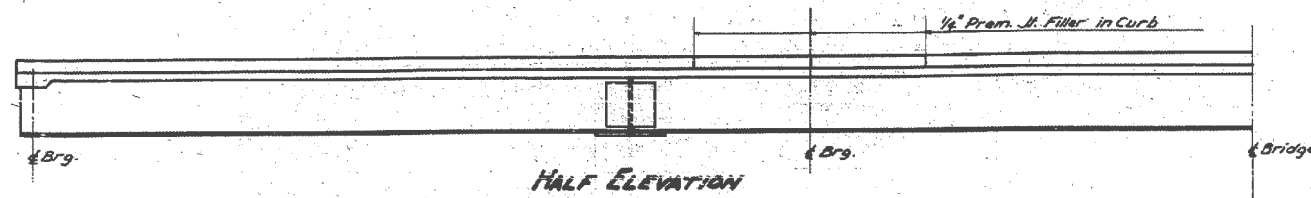
SHEET NO. 1 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12, B2) B-1	WABASH	68	52
			CONTRACT NO. 74219	

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

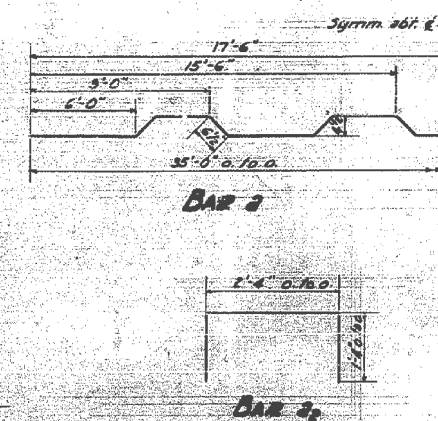
SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
12-B-2	Wabash	11	6
SHEET NO. 2			6 SHEETS



Note:  
Order 4- bars full length.  
Cut to fit skew and use remainder  
of bars in opposite end.

METHOD OF DETERMINING FILLET HEIGHTS -  
After all Structural Steel has been erected,  
elevations of the top flanges of the beams shall  
be taken at intervals not to exceed 10 ft. From  
these elevations subtract the increment of  
deflection for these points, determined from  
the D.L. Deflection Diagram. The elevations  
so obtained subtracted from the theoretical  
grade elevations, minus floor thickness,  
equals the fillet heights above top of beam.

FILLET AND FLOOR DRAIN DETAILS

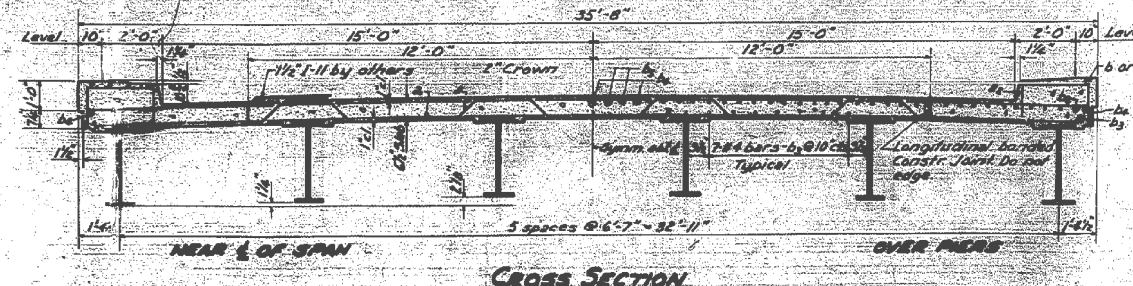


BILL OF MATERIAL

BAR	NO	SIZE	LENGTH	SHAPE
a	130	#5	36'-4"	
b	242	#5	35'-0"	
c	176	#4	5'-0"	
b	48	#4	23'-6"	
b <sub>1</sub>	32	#4	7'-9"	
b <sub>2</sub>	16	#6	17'-0"	
b <sub>3</sub>	222	#4	25'-0"	
b <sub>4</sub>	138	#5	25'-0"	
b <sub>5</sub>	30	#6	17'-0"	
Class A Concrete			Cu. Yds.	163.0
Reinforcement Bars			Lbs.	39844
Structural Steel			Lbs.	118770

DESIGNED Frank D. Cucinelli  
CHECKED Albert A. Kowal  
DRAWN J. Garcia  
CHECKED FOC

JUNE 2 1955  
EXAMINED V.M. Brennan  
PASSED R. R. Bartelmy  
APPROVED R. R. Bartelmy



SUPERSTRUCTURE  
CRAWFISH CREEK  
S.B.I. RT. 1 SEC. 12-B-2  
WABASH COUNTY  
STATION 135+50



USER NAME = has	DESIGNED - MTD	REVISED -
ESCA PROJECT NO. 933.14	CHECKED - RDP	REVISED -
PLOT SCALE = 0.1667' / IN.	DRAWN - HAS	REVISED -
PLOT DATE = 6/10/2014	CHECKED - 01/31/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

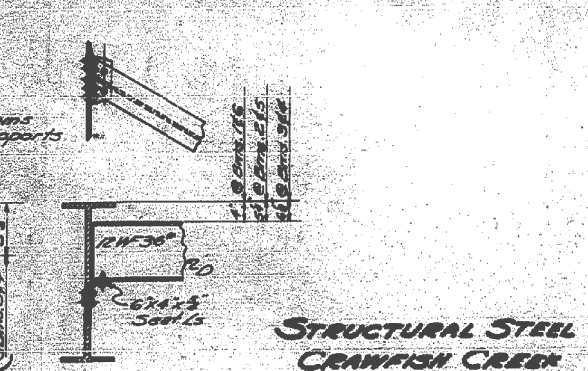
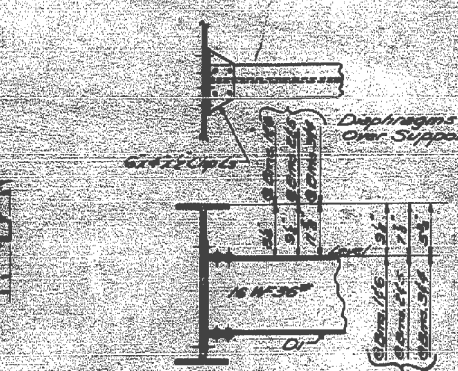
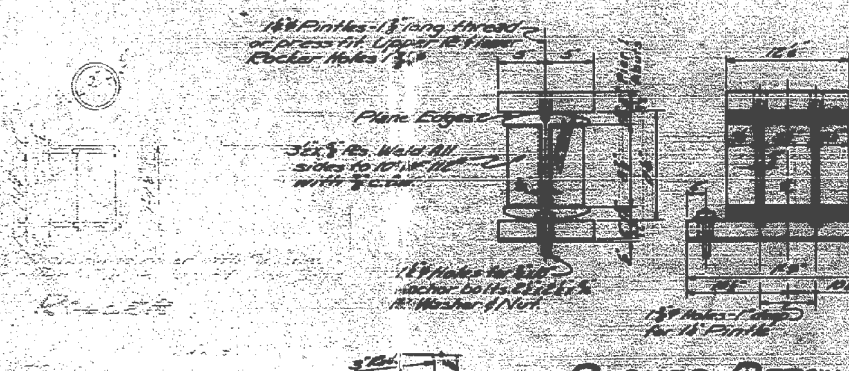
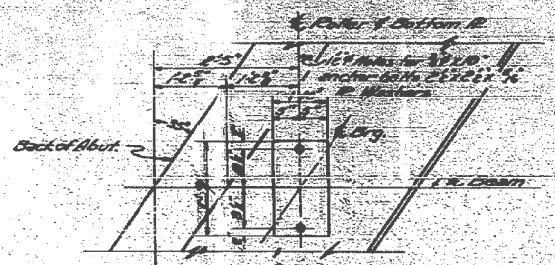
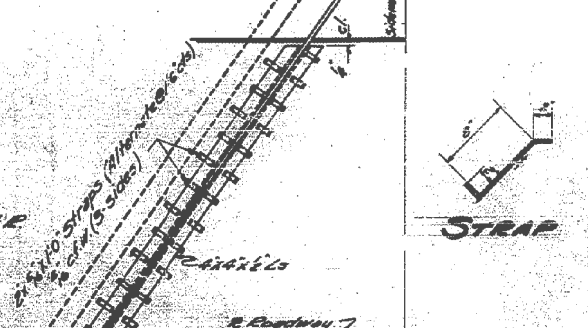
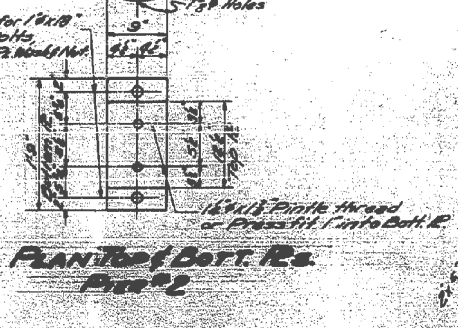
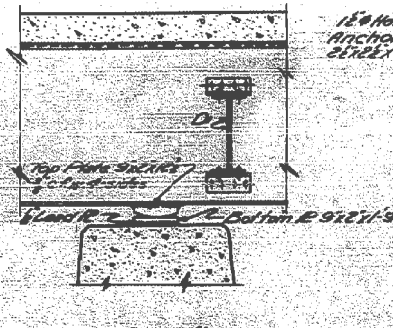
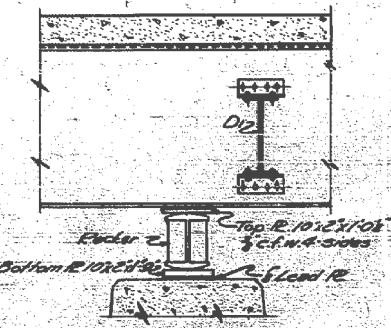
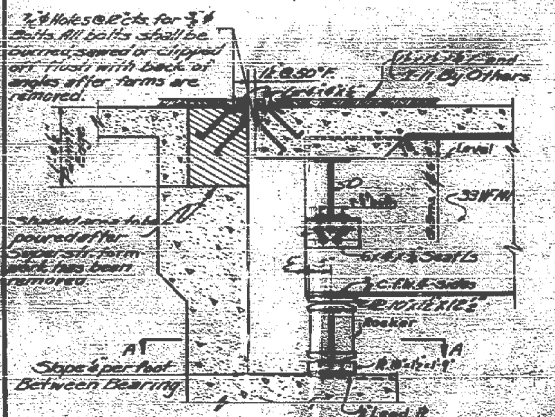
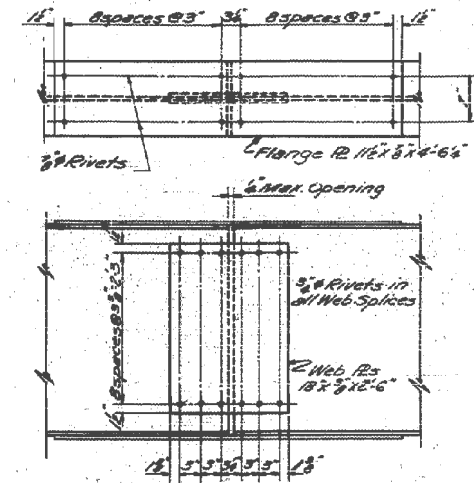
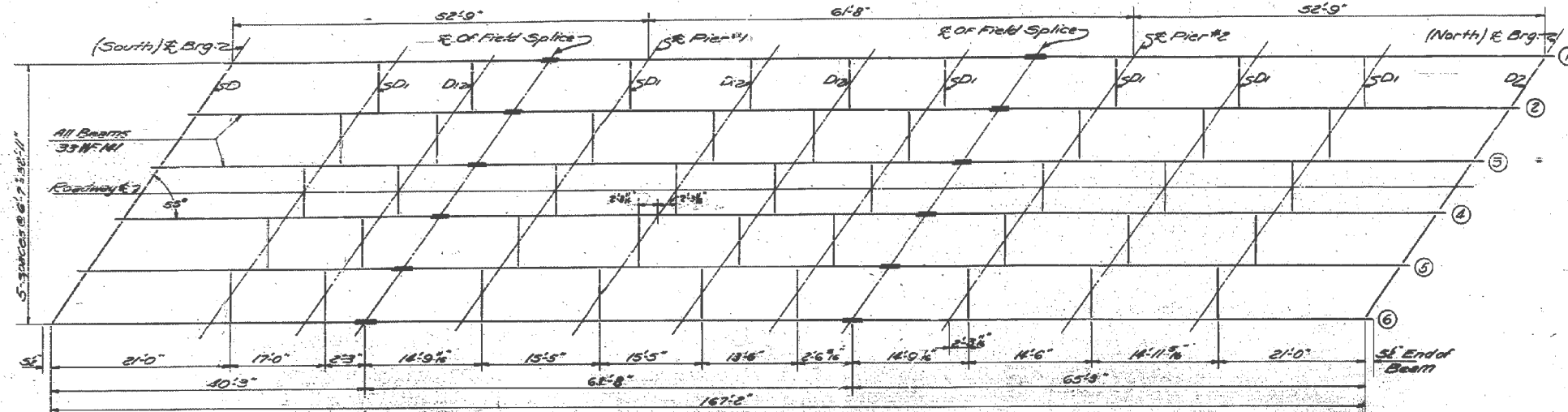
EXISTING STRUCTURE PLANS - SN 093-0003  
FOR INFORMATION ONLY

SHEET NO. 2 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	53
CONTRACT NO. 74219			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
12-B-2	Wabash	11	7	6
SHEET NO. 3		6 SHEETS		



DESIGNED	Frank D. Connolly	EXAMINED	J.M.P.
CHECKED	Robert Albers	DRAWN	E.P.
DRAWN	E.P.	APPROVED	R.H.
CHECKED	F.D.C.		

**STRUCTURAL STEEL**  
CRAWFISH CREEK  
S.B.T. Rt. 1 Sec. 12-B-2  
WABASH COUNTY  
Sta. 135+50



USER NAME = has	DESIGNED - MTD	REVISED -
ESCA PROJECT NO. 933.14	CHECKED - RDP	REVISED -
PLOT SCALE = 0.1667' / IN.	DRAWN - HAS	REVISED -
PLOT DATE = 6/10/2014	CHECKED - 01/31/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - SN 093-0003  
FOR INFORMATION ONLY

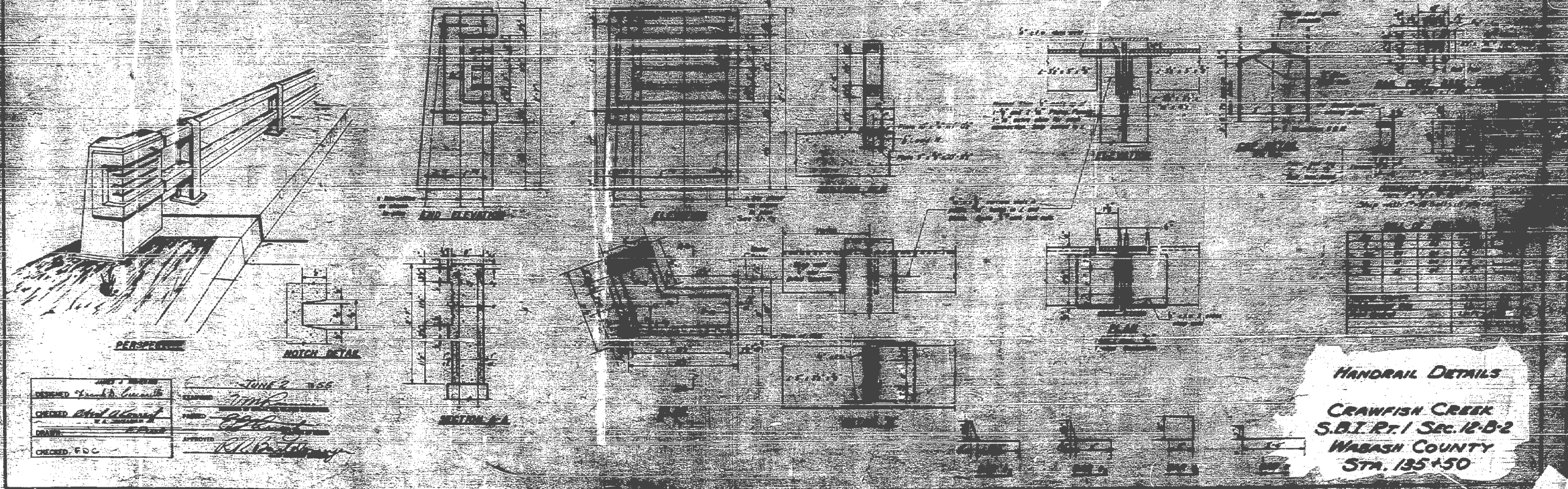
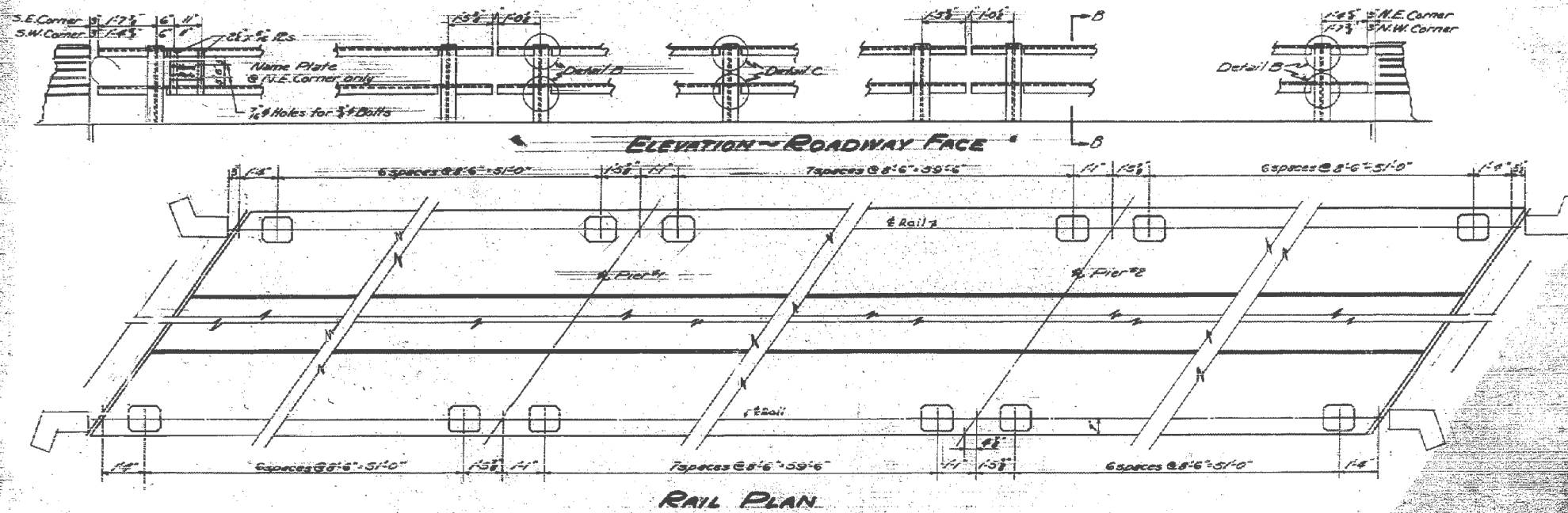
SHEET NO. 3 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	54
				CONTRACT NO. 74219

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

SHEET NO. 4		6 SHEETS	
DATE	11/11/13	PROJECT	Wabash



PRINT DRIVER \* LEO S. B. ...



USER NAME = has	DESIGNED - MTD	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - SN 093-0003  
FOR INFORMATION ONLY

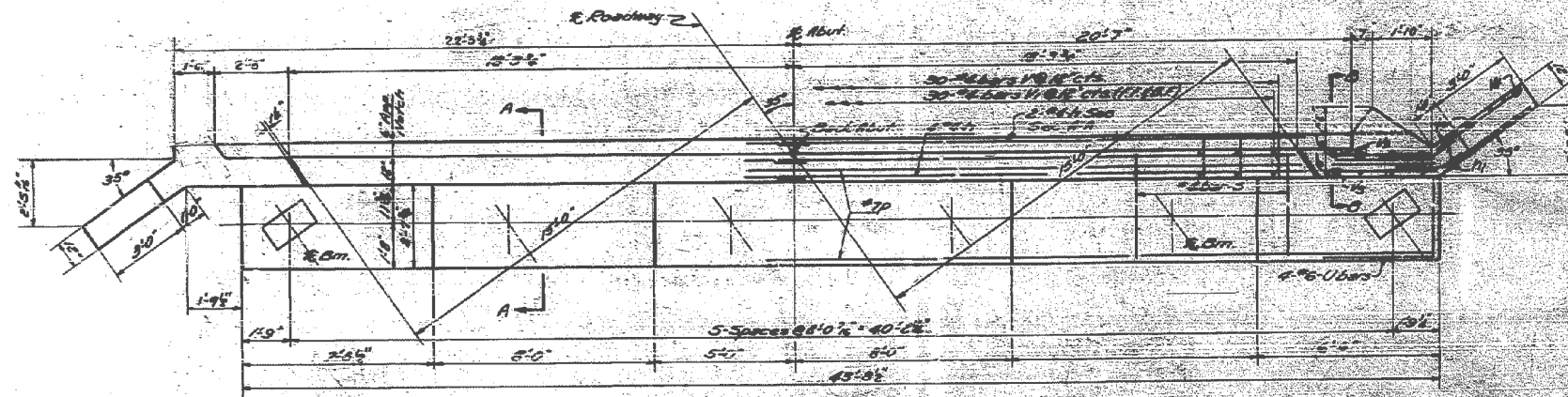
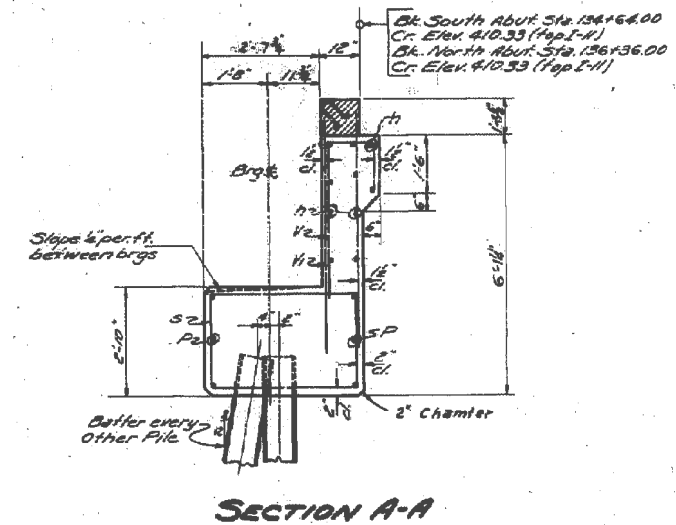
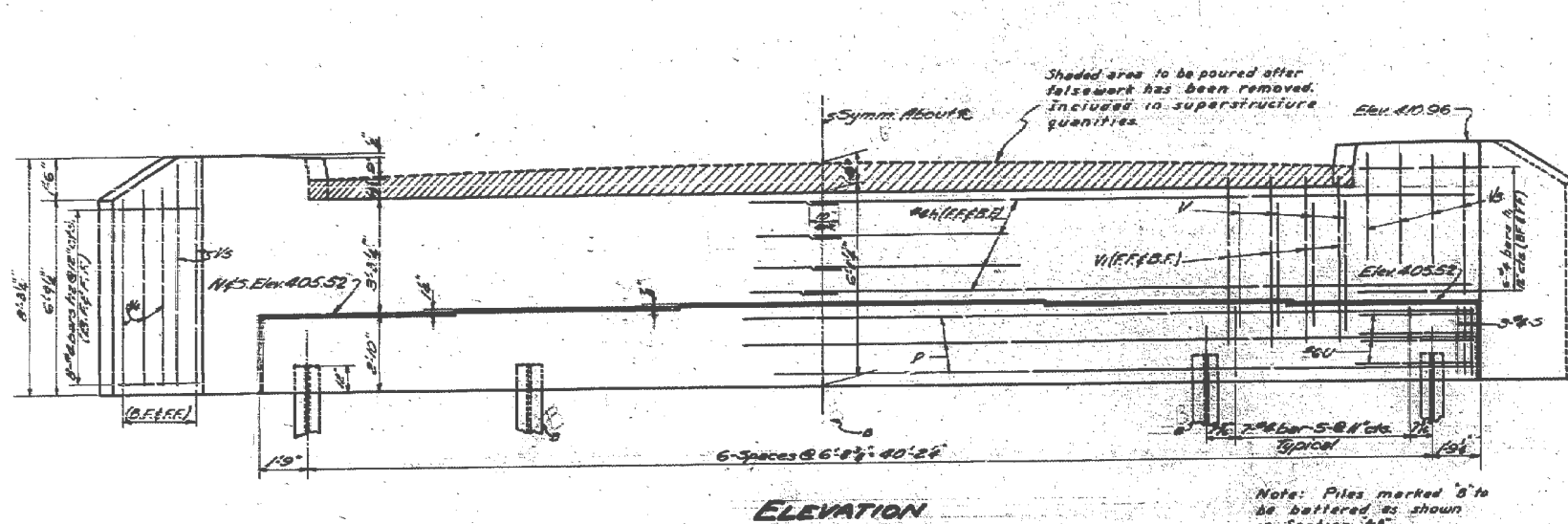
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	55
CONTRACT NO. 74219				
ILLINOIS FED. AID PROJECT				

SHEET NO. 4 OF 6 SHEETS



STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12-B-2	Wabash	11	9	6 SHEETS



**PILE DATA**

Capacity	40 Piles
Est. Length	25 FT
No. Piles	16 (2 Abut)
10.20 FT	

**BILL OF MATERIAL - 2 ABUTS.**

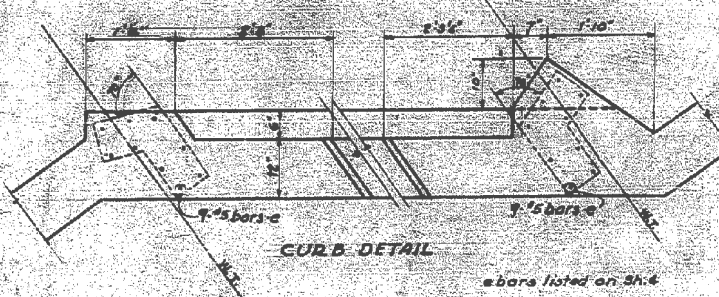
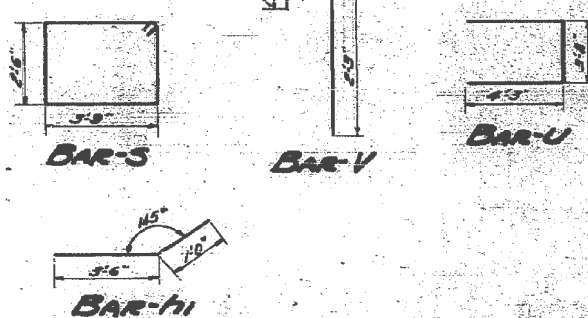
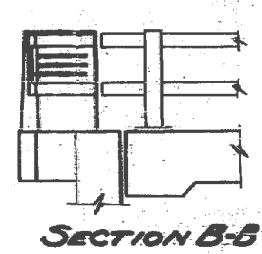
Bar	No.	Size	Length	Shape
h	40	#4	25'-0"	
hi	48	#4	6'-6"	
hi	62	#4	2'-0"	
P	12	#7	43'-3"	
S	96	#4	12'-0"	
U	16	#6	11'-0"	
V	60	#4	6'-9"	
W	120	#4	4'-6"	
X	32	#4	6'-0"	
Y	24	#4	6'-6"	
Z	16	#4	7'-9"	

Class X Concrete Cu Yds. 3000

Reinforcement Bars Lbs. 3300

Pile Piles (Steel) Each - One

Steel Piles Lin. Ft. 299



DESIGNED Frank A. Curran  
CHECKED Edward A. Givens  
DRAWN E. Rush  
CHECKED F.D.C.

EXAMINED M. Romine  
APPROVED R.L. Bost  
DATE: June 2, 1955

**2-ABUTMENTS  
CRAWFISH CREEK  
S.B.I. RT. 1 SEC. 12-B-2  
WABASH COUNTY  
STA. 135+50**



USER NAME = has	DESIGNED - MTD	REVISED -
ESCA PROJECT NO. 933.14	CHECKED - RDP	REVISED -
PLOT SCALE = 0.1667 / IN.	DRAWN - HAS	REVISED -
PLOT DATE = 6/10/2014	CHECKED - 01/31/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - SN 093-0003  
FOR INFORMATION ONLY

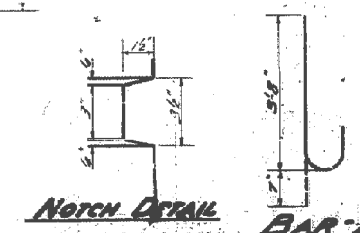
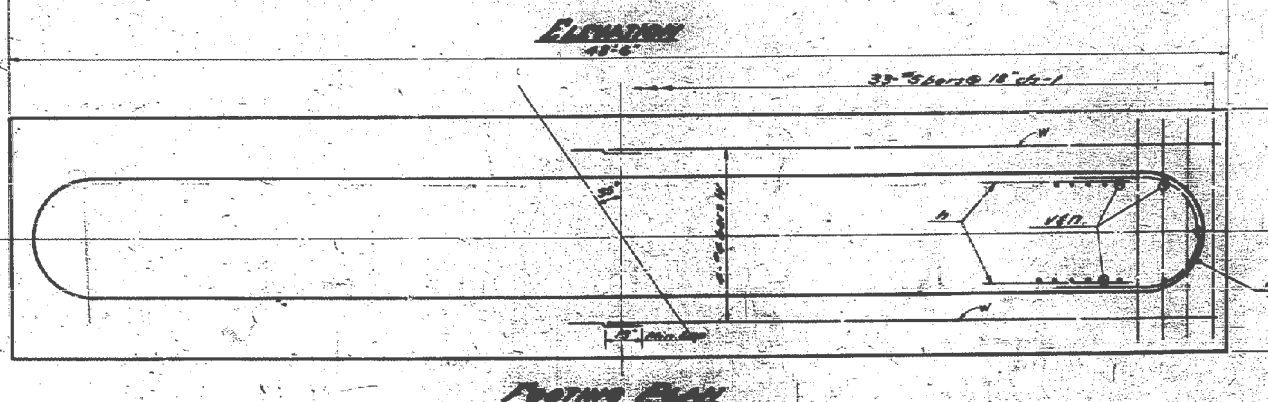
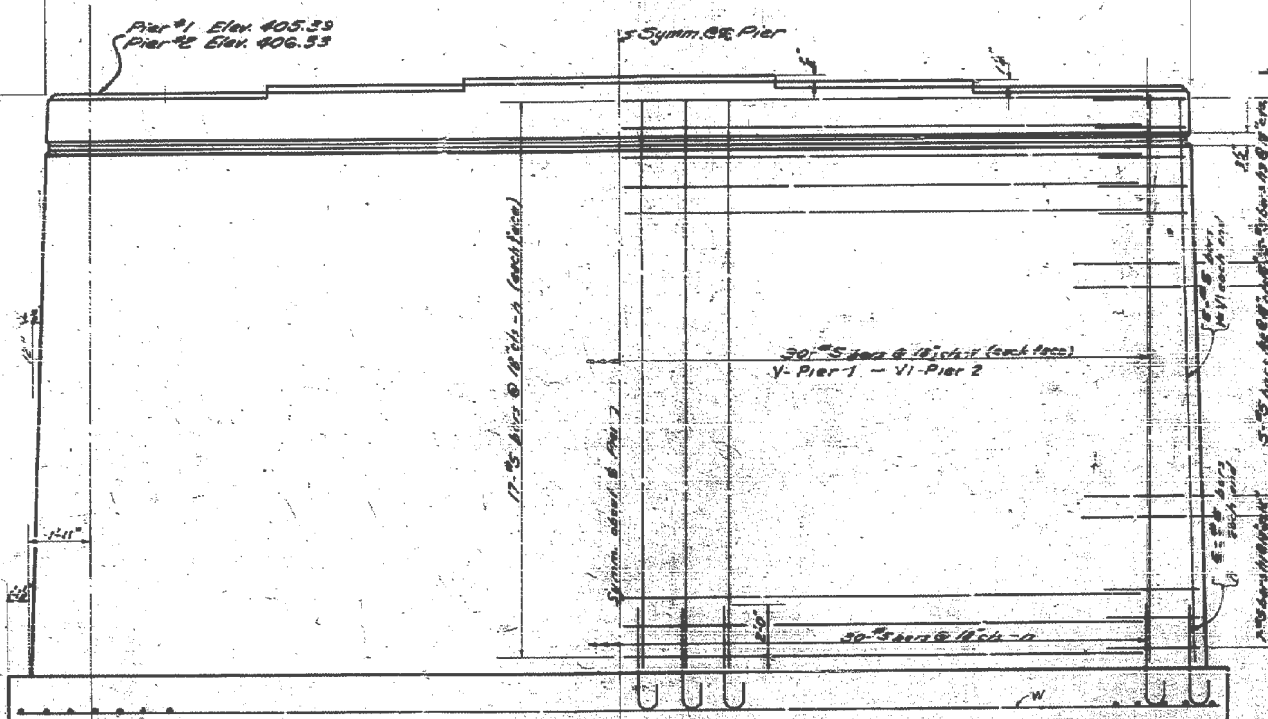
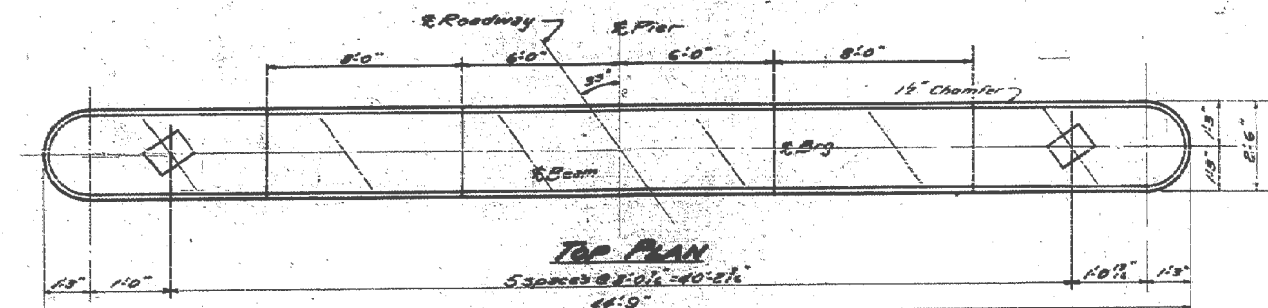
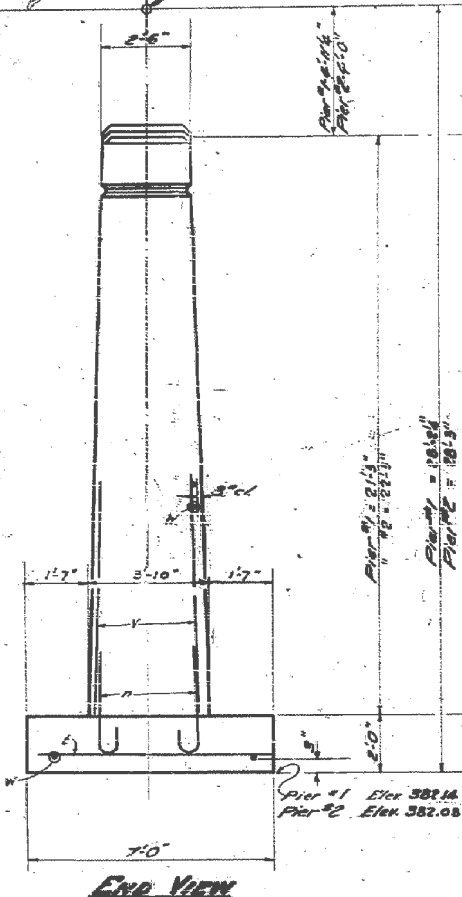
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	56
CONTRACT NO. 74219			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

POST NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
12-B-2	Wabash	11	10	6	6 SHEETS

Note:  
Crown Elev. is to Top of I-11

Pier #1 Sta. 135+19.17 Cr. Elev. 410.33  
Pier #2 Sta. 135+80.83 Cr. Elev. 410.33



Bar	R	A
#1	178	3-5
#2	142	2-5
#3	10	3-5

**BILL OF MATERIALS**

BAR	NO.	SIZE	LENGTH	WEIGHT	QTY	UNIT
I	70	#5	21'-0"	17	17	100 LB
VI	70	#5	22'-0"	21	21	100 LB
II	140	#5	4'-5"	14	40	100 LB
				15	60	100 LB
L	66	#5	8'-0"	8	66	100 LB
W	16	#4	28'-6"	1	16	100 LB

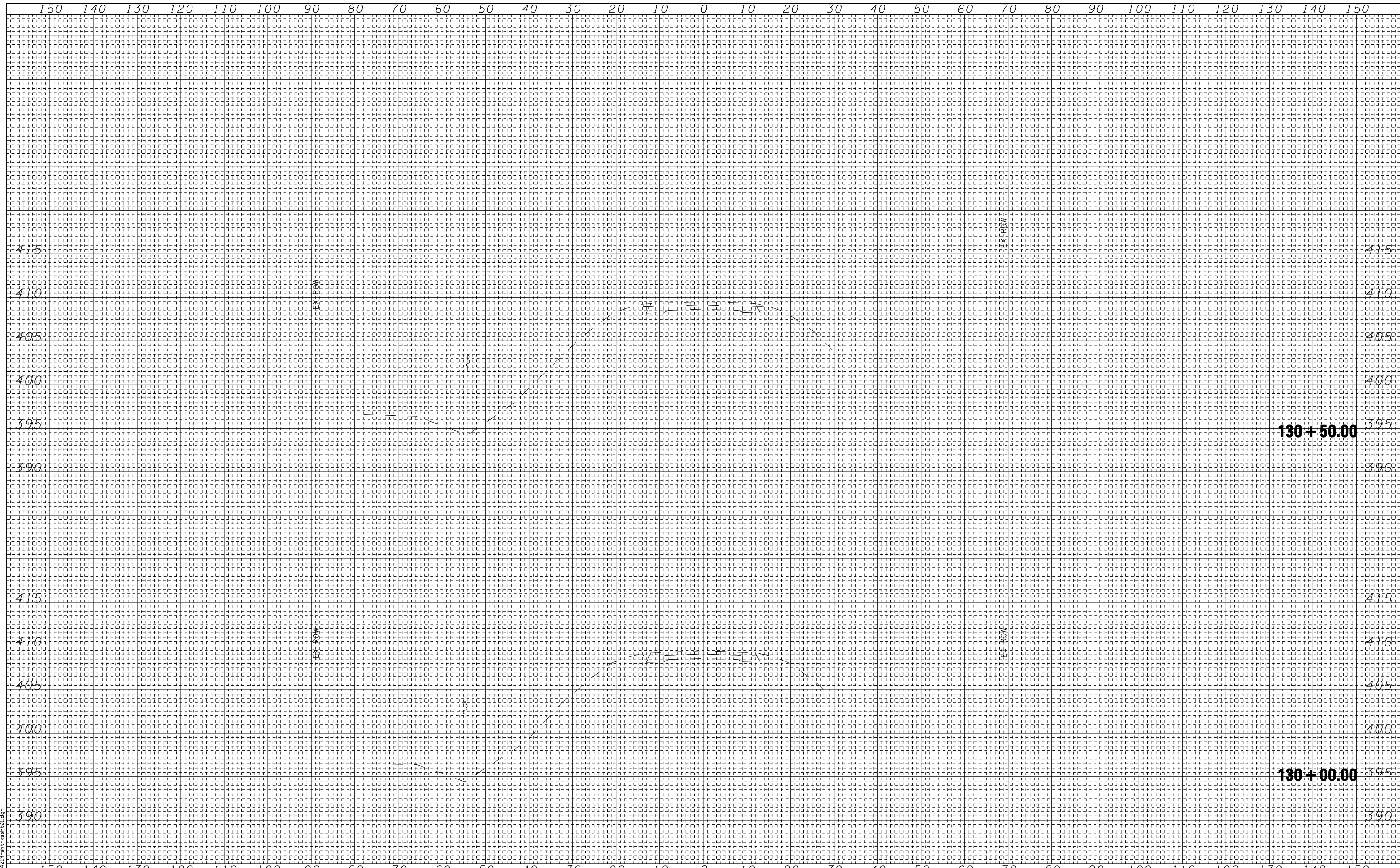
Class 2 Concrete Ca. No. 254.2  
Reinforcement Bars 141 8200

PIER #2  
CRAWFISH CREEK  
S.B.I. RT. 1 SEC. 12-B-2  
WABASH COUNTY  
STA. 135+50

DESIGNED: Fred D. L...  
CHECKED: Robert A...  
DRAWN: E. Rush, R. Griffin  
CHECKED: FPG

EXAMINED: [Signature]  
APPROVED: [Signature]

JUNE 2 1955



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

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

USER: hos  
PRINT DATE: 6/10/2014  
FILE NAME: D:\74219\130+00.dgn



USER NAME = hos	DESIGNED - MTD/NHP	REVISED -
ESCA PROJECT NO. 933.14	DRAWN - RJT/HAS	REVISED -
PLOT SCALE = 20.0000' / IN.	CHECKED - ELH	REVISED -
PLOT DATE = 6/10/2014	DATE - 05/30/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

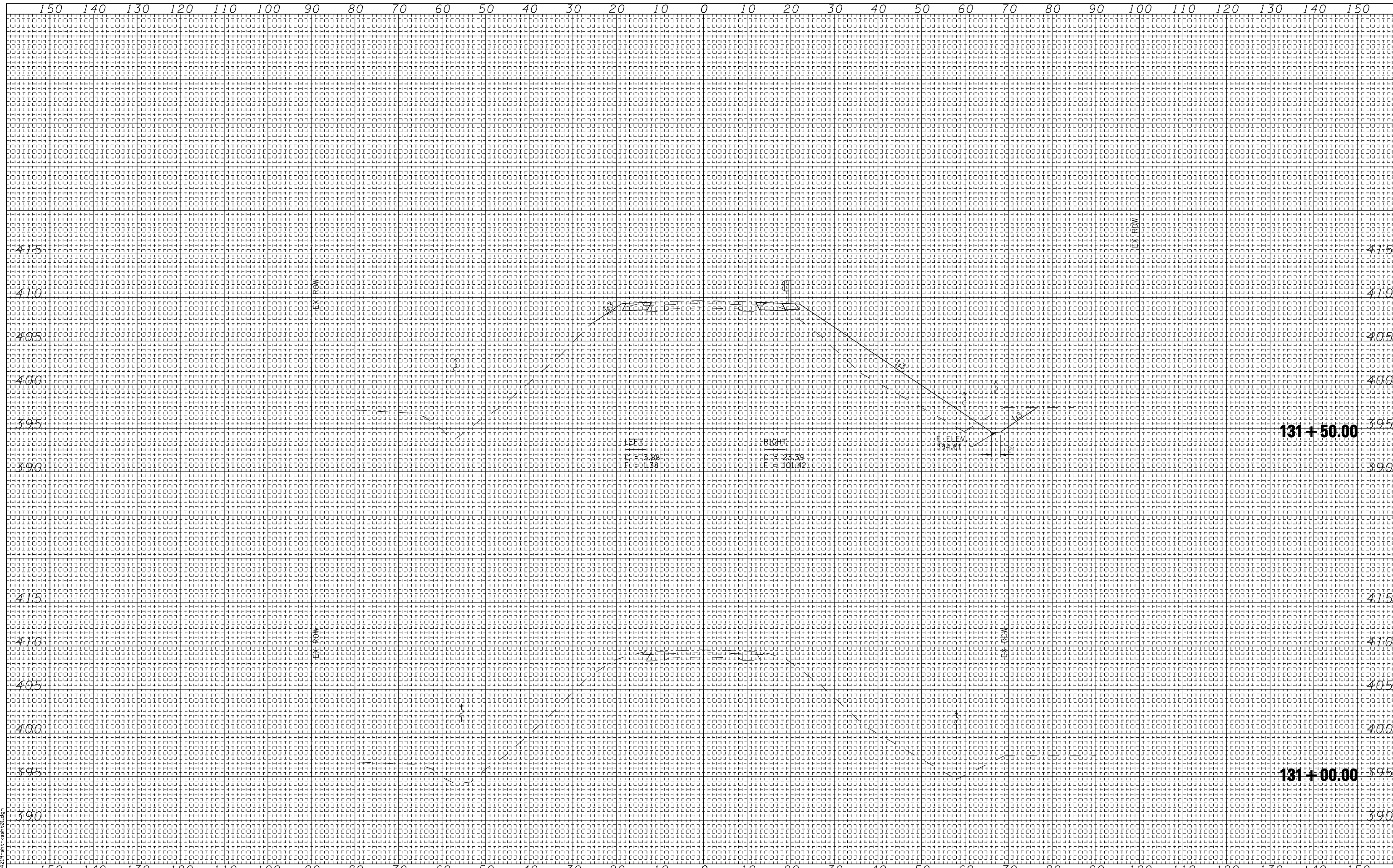
IL ROUTE 1 CROSS SECTIONS

SCALE: AS SHOWN SHEET NO. 1 OF 11 SHEETS STA. 130+00.00 TO STA. 130+50.00

F.A.P. RTE. 332	SECTION (12,B2)B-1	COUNTY WABASH	TOTAL SHEETS 68	SHEET NO. 58
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 74219	

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

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



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PRINT DATE: 6/10/2014  
FILE NAME: D:\74219\131+00-131+50.dgn



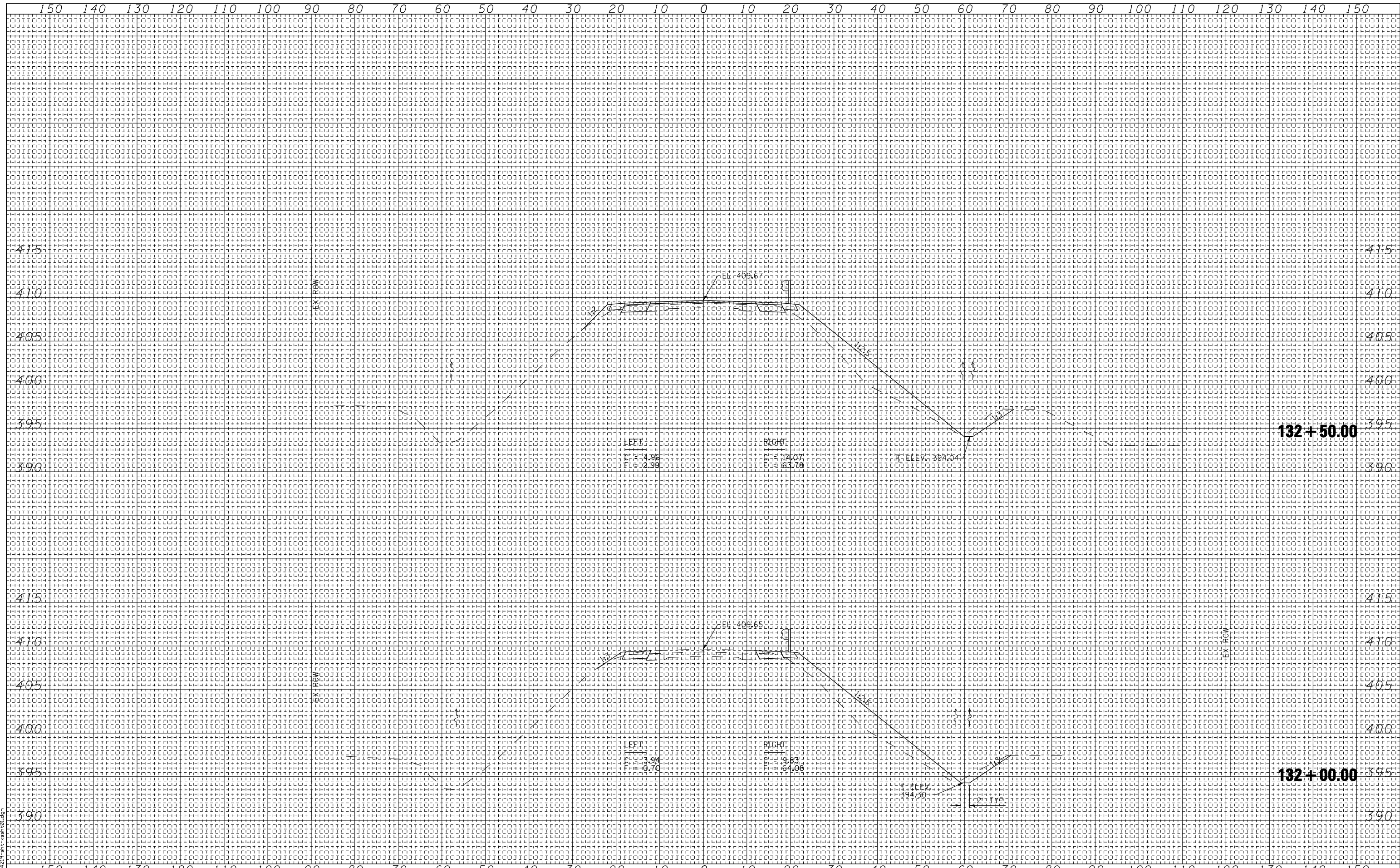
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ESCA PROJECT NO. 933.14	DRAWN - RJT/HAS	REVISED -
PLOT SCALE = 20.0000' / IN.	CHECKED - ELH	REVISED -
PLOT DATE = 6/10/2014	DATE - 01/30/14	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 CROSS SECTIONS

SCALE: AS SHOWN SHEET NO. 2 OF 11 SHEETS STA. 131+00.00 TO STA. 131+50.00

F.A.P. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	59
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 74219	



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

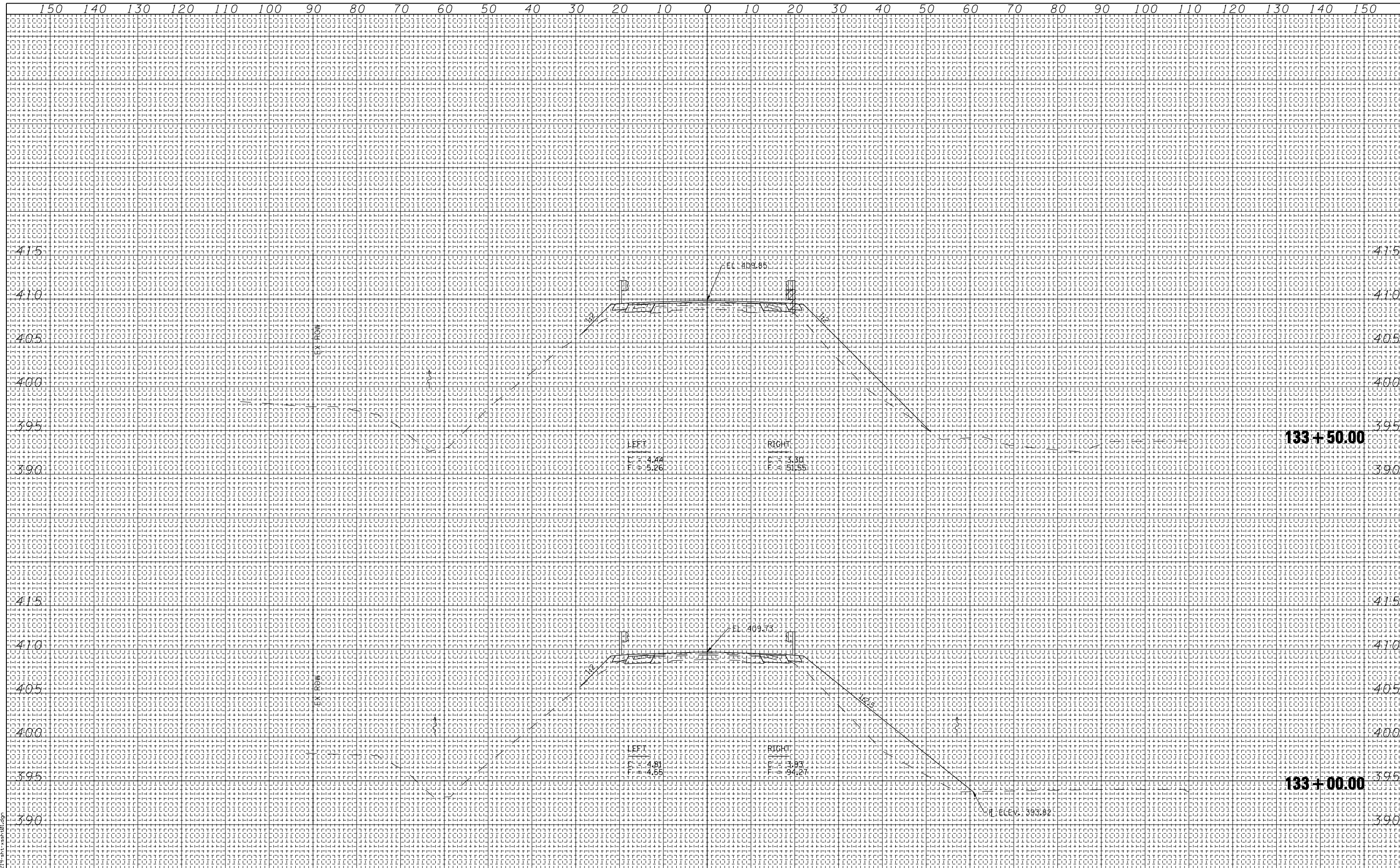
DATE	BY
NO.	NO.
AREAS CHECKED	AREAS CHECKED
TEMPLATE	TEMPLATE
PLOTTED	PLOTTED
SURVEYED	SURVEYED
NOTE BOOK	NOTE BOOK
ORIGINAL SURVEY	ORIGINAL SURVEY

USER = hos  
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DATE	BY
FINISHED SURVEY PLOTTED TEMPLATE AREAS CHECKED	
NO.	

DATE	BY
ORIGINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED	
NO.	

USER PRINT DATE = 6/10/2014  
FILE NAME = D:\74219\11\133+00.dwg



USER NAME = hos	DESIGNED - MTD/NHP	REVISED -
ESCA PROJECT NO. 933.14	DRAWN - RJT/HAS	REVISED -
PLOT SCALE = 20.0000' / IN.	CHECKED - ELH	REVISED -
PLOT DATE = 6/10/2014	DATE = 01/30/14	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 1 CROSS SECTIONS**

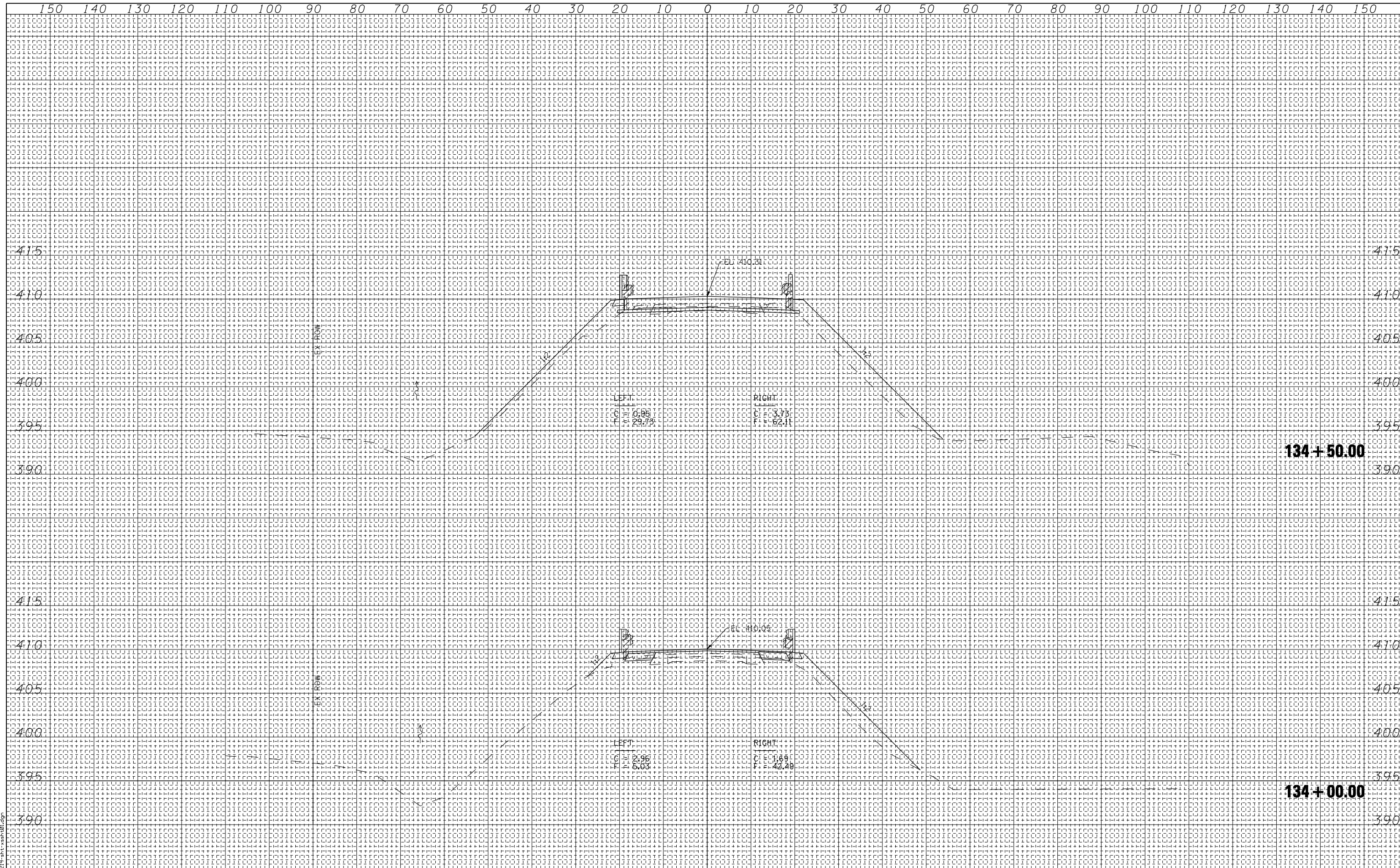
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	61
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 74219				

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

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

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ESCA PROJECT NO. 933.14	DRAWN - RJT/HAS	REVISED -
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PLOT DATE = 6/10/2014 8:45:03 AM	DATE - 01/30/14	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 1 CROSS SECTIONS**

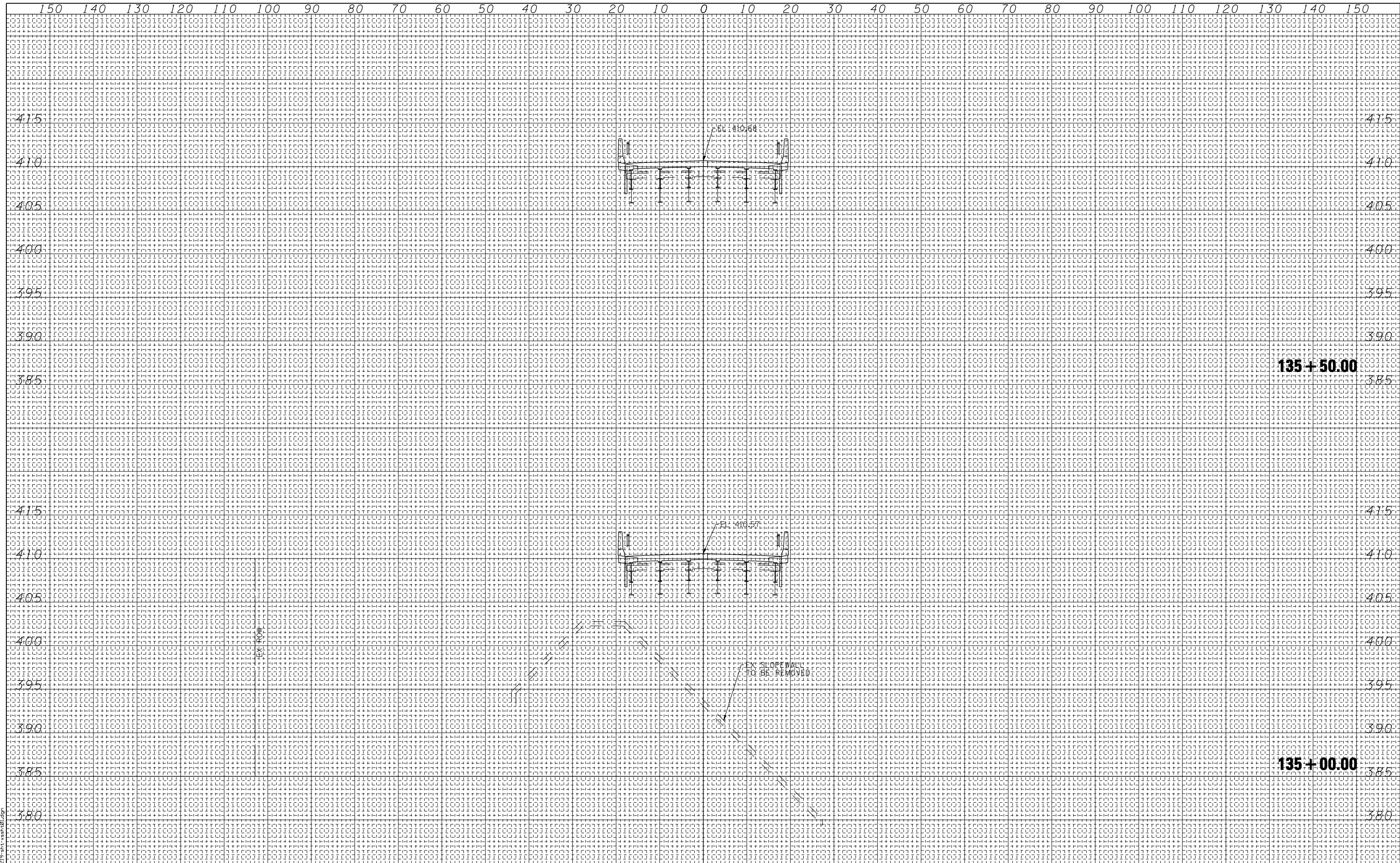
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F.A.P. RTE. 332	SECTION (12,B2)B-1	COUNTY WABASH	TOTAL SHEETS 68	SHEET NO. 62
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 74219				

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

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

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ESCA PROJECT NO. 933.14	DRAWN - RJT/HAS	REVISED -
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PLOT DATE = 6/10/2014	DATE - 05/30/13	REVISED -

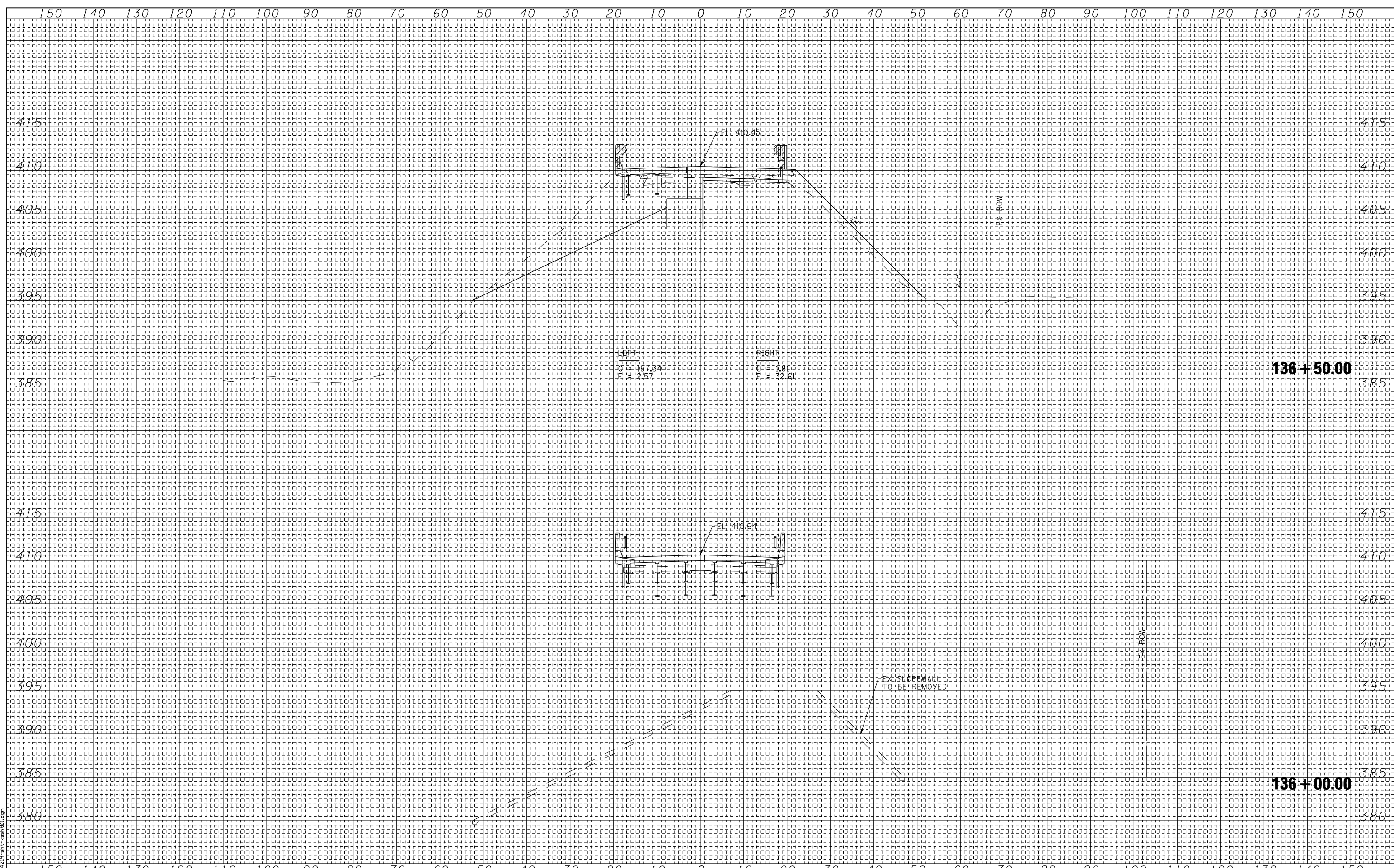
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 1 CROSS SECTIONS**

SCALE: AS SHOWN    SHEET NO. 6 OF 11 SHEETS    STA. 135+00.00 TO STA. 135+50.00

F.A.P. RTE. 332	SECTION (12,B2)B-1	COUNTY WABASH	TOTAL SHEETS 68	SHEET NO. 63
CONTRACT NO. 74219				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		





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

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

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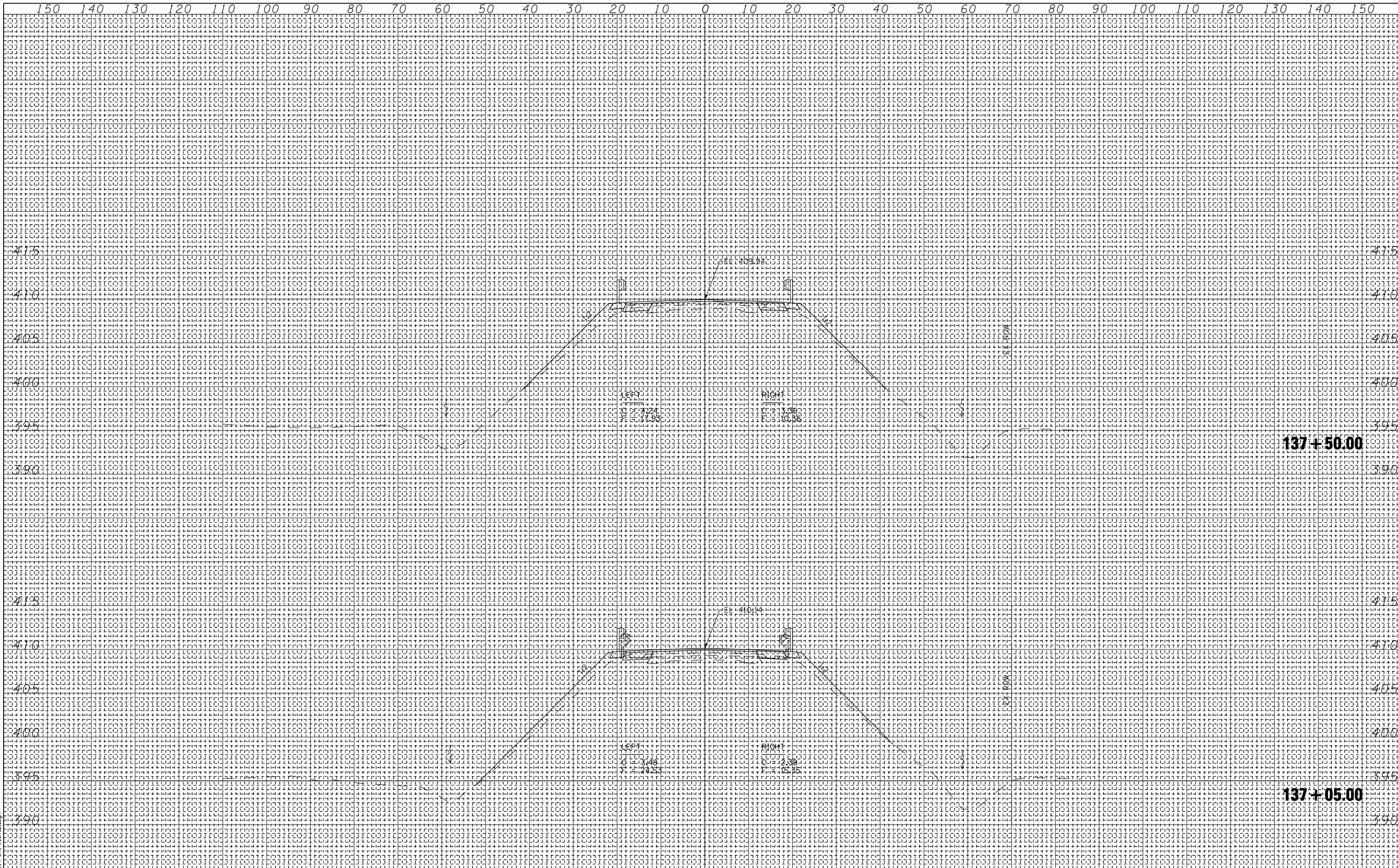
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PLOT SCALE = 20.0000' / IN.	CHECKED - ELH	REVISED -
PLOT DATE = 6/10/2014	DATE - 05/30/13	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 1 CROSS SECTIONS**

SCALE: AS SHOWN    SHEET NO. 7 OF 11 SHEETS    STA. 136+00.00 TO STA. 136+50.00

F.A.P. RTE. 332	SECTION (12,B2)B-1	COUNTY WABASH	TOTAL SHEETS 68	SHEET NO. 64
CONTRACT NO. 74219		ILLINOIS FED. AID PROJECT		

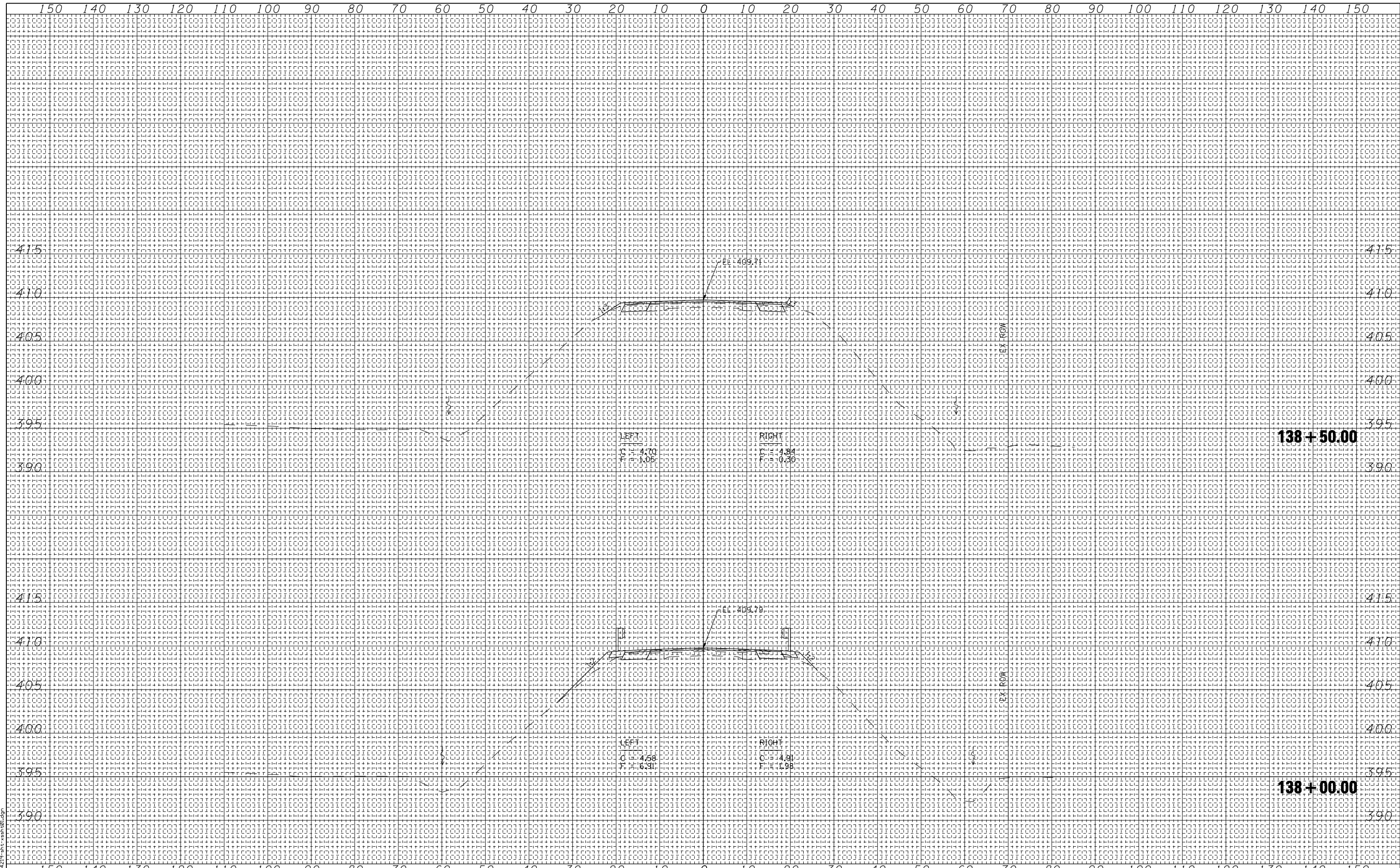


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BY	
FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED	
SURVEY NOTE BOOK NO.	

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

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

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

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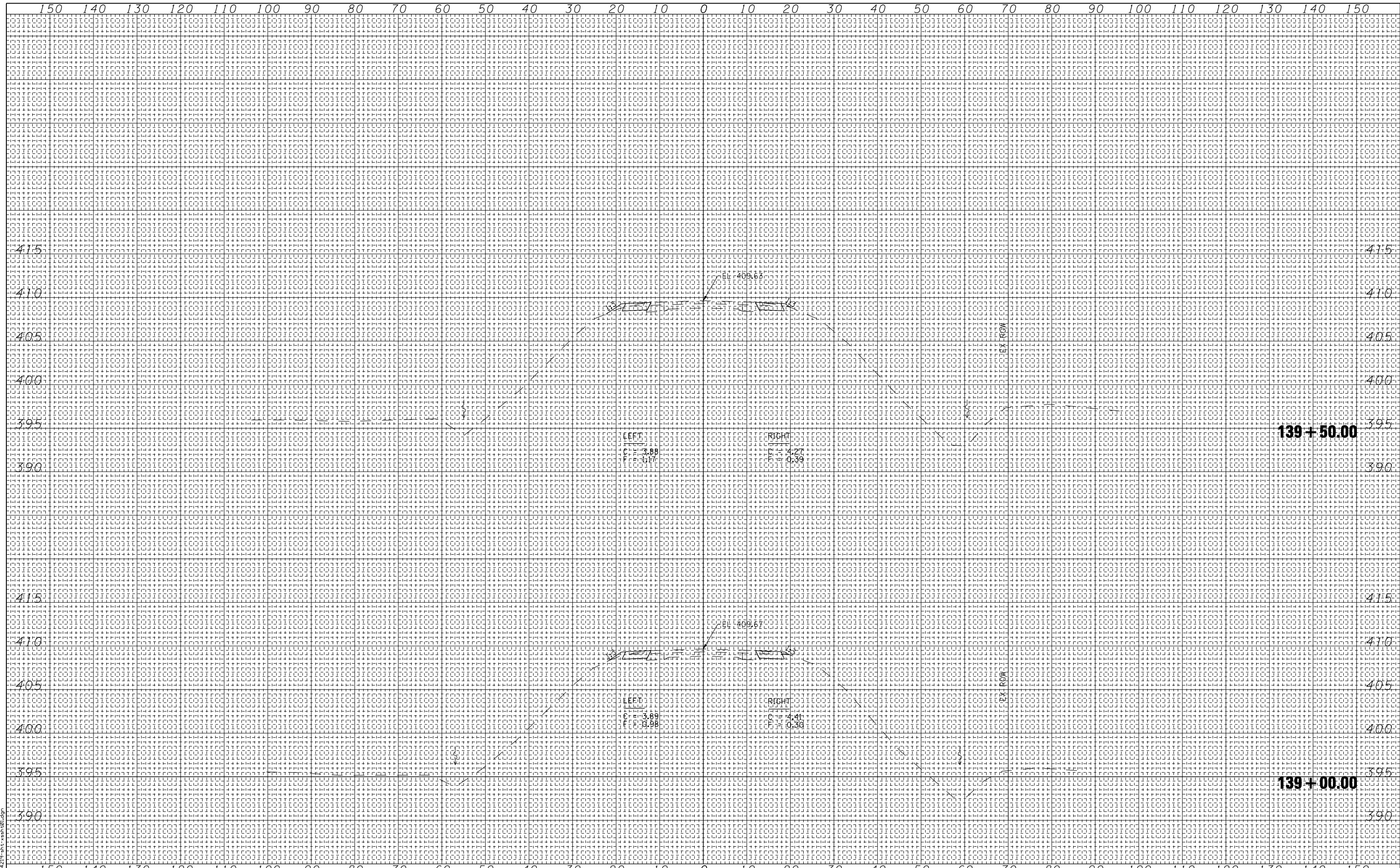
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PLOT SCALE = 20.0000' / IN.	CHECKED - ELH	REVISED -
PLOT DATE = 6/10/2014	DATE - 01/30/14	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 1 CROSS SECTIONS**

SCALE: AS SHOWN    SHEET NO. 9 OF 11 SHEETS    STA. 138+00.00 TO STA. 138+50.00

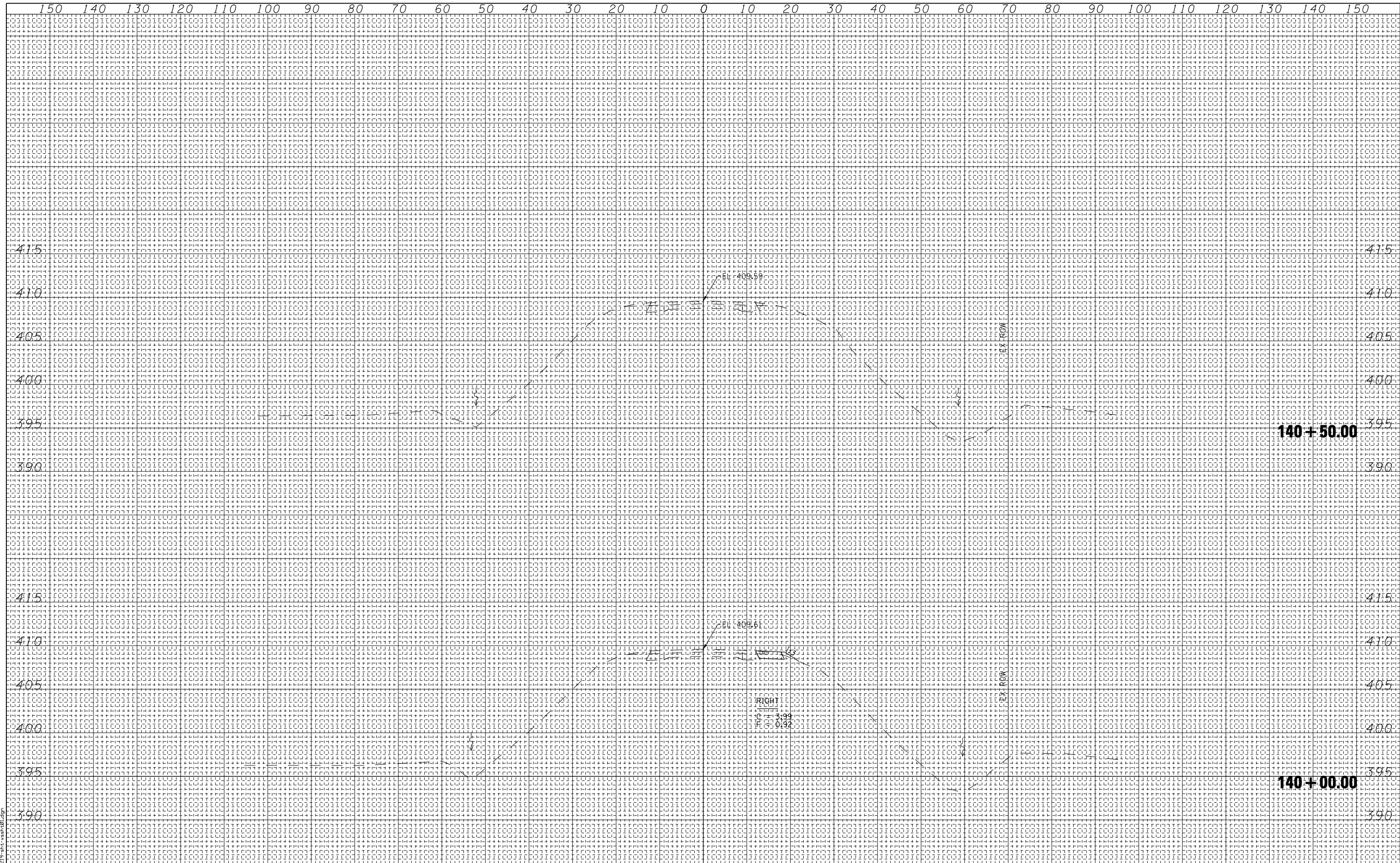
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	66
CONTRACT NO. 74219				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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

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

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

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

USER: hbs  
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USER NAME = hbs	DESIGNED - MTD/NHP	REVISED -
ESCA PROJECT NO. 933.14	DRAWN - RJT/HAS	REVISED -
PLOT SCALE = 20.0000' / IN.	CHECKED - ELH	REVISED -
PLOT DATE = 6/10/2014	DATE - 01/30/14	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 1 CROSS SECTIONS**

SCALE: AS SHOWN    SHEET NO. 11 OF 11 SHEETS    STA. 140+00.00 TO STA. 140+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	68
				CONTRACT NO. 74219
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		