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HIGHWAY STANDARDS

SEE SHEET 3

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

FAU ROUTE 7046
 SECTION 10-00341-00-BR
 PROJECT NO. BRS 5016(043)
 MAJOR BRIDGE FUNDS
 CITY OF DANVILLE
 VERMILION COUNTY

C-95-315-14

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7046	10-00341-00-BR	VERMILION	30	1
		ILLINOIS	CONTRACT NO 91512	



LOCATION OF SECTION INDICATED THUS:

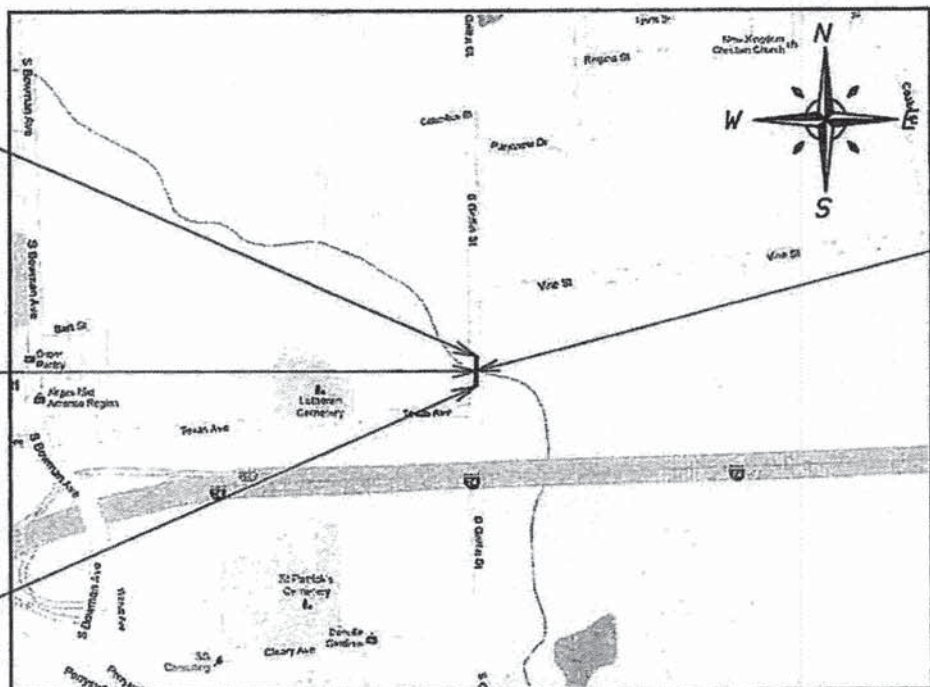
ENGINEERING PLAN SUBMITTAL	
THESE ENGINEERING PLANS AND SUPPORTING DOCUMENTS ARE ISSUED FOR THE FOLLOWING PURPOSE ONLY	
<input type="checkbox"/>	PRELIMINARY PLAN REVIEW NO.
<input type="checkbox"/>	PRE-FINAL PLAN REVIEW NO.
<input checked="" type="checkbox"/>	FINAL PLAN REVIEW NO.
<input type="checkbox"/>	PERMIT APPLICATION
<input type="checkbox"/>	BIDDING
<input type="checkbox"/>	CONSTRUCTION

DATE: 01-26-2015

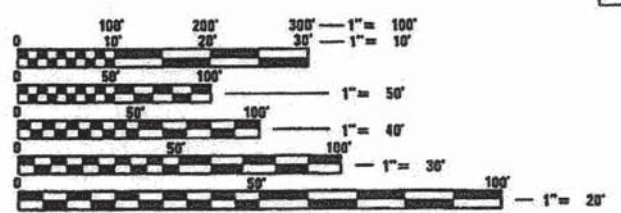
**PROJECT ENDS
STA 16+00.00**

**ROADWAY OMISSION
FROM STA 12+37.48
TO STA 13+37.48**

**PROJECT BEGINS
STA 10+15.00**



**PROPOSED STRUCTURE
REPLACEMENT OVER
STONEY CREEK
DISTRICT 5
SEC 10-00341-00-BR
STATION 12+87.50
SN: 092-6044**



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

PROJECT ENGINEER JOE HICKOX
PROJECT MANAGER DANIEL FEUERBORN

CONTRACT NO. 91512

LOCATION MAP

GROSS LENGTH = 585.0 FT. = 0.111 MILE
 NET LENGTH = 485.0 FT. = 0.092 MILE
 ADT = 950
 FUNCTIONAL CLASSIFICATION = URBAN COLLECTOR

ESI CONSULTANTS, LTD
 783 WINDSOR ROAD
 CHARLESTON, IL 61820
 (217) 246-1500
 WWW.ESICONSULTANTS.LTD.COM
 ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #181-C03648
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 EXCEPT FOR THIS SPECIFIC PROJECT WITHOUT THE WRITTEN CONSENT OF ESI CONSULTANTS, LTD.



Curtis M. Watkins 2/3/2015
 Curtis M. Watkins Date
 License Expires 11-30-2015

CITY OF DANVILLE

APPROVED *Tommy* 20 15
R. Daniel Achille
 CITY ENGINEER

PASSED *02/05* 20 15
Sue deLay
 DISTRICT FIVE ENGINEER-OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW *February 5* 20 15
Pamela James
 DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

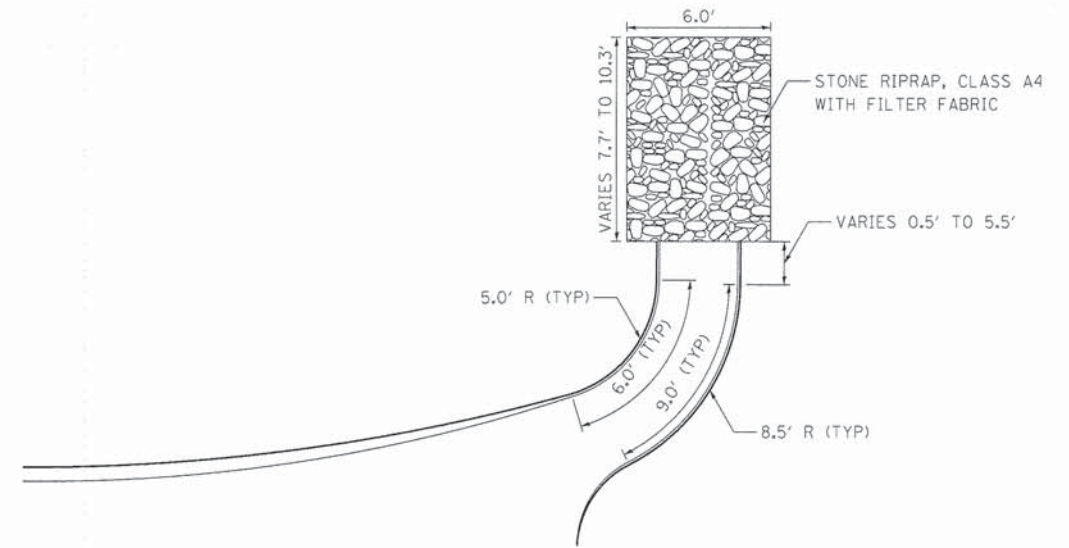
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GENERAL NOTES

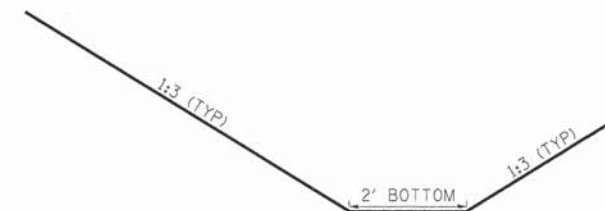
- ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM U.S.G.S. MEAN SEA LEVEL DATUM.
 - THE CONTRACTOR SHALL COORDINATE ACTIVITIES WITH ALL UTILITIES WITHIN THE PROJECT LIMITS. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT ARE NOT GUARANTEED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THEIR EXACT LOCATIONS FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION. THE CONTRACTOR IS REQUIRED TO CONTACT J.U.L.I.E. AT, 1-800-892-0123, PRIOR TO PROCEEDING WITH ANY EXCAVATION AND WORK ON THE PROJECT.
 - DURING CONSTRUCTION THE CONTRACTOR MAY ENCOUNTER VARIOUS TYPES OF UNDERGROUND UTILITIES THAT MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL COOPERATE WITH THE ENGINEER AND THE OWNER OF THE UTILITY WHILE THE UTILITY COMPANY ADJUST THEIR FACILITIES IF NECESSARY. IF IT IS DETERMINED THAT THE UTILITY HAS BEEN ABANDONED, THE CONTRACTOR SHALL BE DIRECTED TO REMOVE THE UTILITY LINES THAT CONFLICT WITH HIS WORK AND CAP OR PLUG THE LINES AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY AND SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT.
 - CONTRACTOR SHALL CAREFULLY PROTECT ANY TREES OR SHRUBS NOT INCLUDED IN THE CONTRACT FOR REMOVAL. SNOW FENCE SHALL BE ERECTED TWO FEET FROM TREES AND SHRUBS TO REMAIN, THAT ARE IMMEDIATELY ADJACENT TO THE WORK, FOR PROTECTION DURING CLEARING AND CONSTRUCTION OPERATIONS. COST OF THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE OF TREE REMOVAL.
 - ALL REMOVAL LIMITS SHALL BE SAW CUT.
 - GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES AND OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THESE ITEMS. IT IS THE INTENT THAT ITEMS THAT DO NOT NEED TO BE DISTURBED BY THE CONSTRUCTION SHALL BE PRESERVED. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS PAY ITEMS AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
 - THE AREA TO BE SEEDED SHALL CONSIST OF ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.
 - ALL EXISTING AND PROPOSED RIGHT -OF -WAY LINES SHOWN ON THE PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
 - ALL WORK NECESSARY TO ATTACH THE PIPE DRAIN TO THE ABUTMENT DRAIN PIPE, TRENCHING IN THE PIPE DRAINS AND INSTALLING THE PIPE DRAIN TO THE CONCRETE HEADWALLS IS INCLUDED IN THE PAY ITEM OF PIPE DRAINS OF THE DIAMETER SELECTED.
 - THE CONTRACTOR WILL PROVIDE INTERNET ACCESSIBILITY TO THE BITUMINOUS PLANT QUALITY CONTROL LAB SO THAT BITUMINOUS PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF ALL BITUMINOUS ITEMS.
 - FOR THE PAY ITEM BITUMINOUS MATERIALS (PRIME COAT), THE CONTRACTOR SHALL USE EITHER SS-1H, OR SS-1HP APPLIED AT THE RATE DIRECTED BY THE ENGINEER.
 - MATERIAL USED FOR AGGREGATE SURFACE, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE.
 - CHANNEL EXCAVATION QUANTITY INCLUDES ANY EXCAVATION BETWEEN EXISTING ABUTMENTS.
 - THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.
 - BEFORE ORDERING STORM SEWERS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR THE EXACT LENGTHS.
- 1004.01 COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

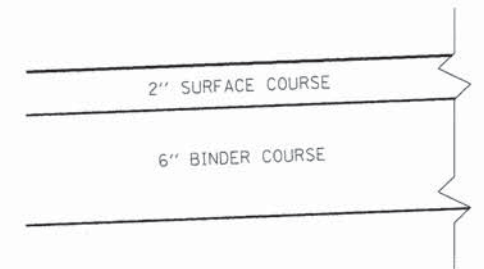
BITUMINOUS MATERIALS (PRIME COAT)	- 0.025 LB/SOFT (ON PAVEMENT)
HOT-MIX ASPHALT SURFACE / BINDER	- 0.056 TON/SOYD/IN
AGGREGATE SURFACE COURSE, TYPE B	- 1.8 TON/CUYD
MULCH METHOD	- 2.0 TON/ACRE
NITROGEN FERTILIZER NUTRIENT	- 90 LB/ACRE
PHOSPHOROUS FERTILIZER NUTRIENT	- 90 LB/ACRE
POTASSIUM FERTILIZER NUTRIENT	- 90 LB/ACRE
TEMPORARY SEEDING	- 100 LB/ACRE - 1 APPLICATIONS



CONCRETE OUTLET DETAIL



SPECIAL DITCH DETAIL



HMA LIFT DETAIL

NOTE:
THE BINDER COURSE SHALL BE PLACED IN 2 LIFTS FOR A TOTAL OF 6". EACH BINDER LIFT SHALL BE A MINIMUM OF 2/4" TO A MAXIMUM OF 4/2".

LOCATION:	GRIFFIN ST	GRIFFIN ST
MIXTURE USE	POLYMER BINDER	POLYMER SURFACE
AC/PG	SBS PG 64-28	SBS PG 64-28
DESIGN AIR VOIDS	4.0% @ Ndes= 50	4.0% @ Ndes= 50
MIX COMP(GRADATION)	IL-19.0	IL-9.5
FRICTION AGGREGATE	N/A	MIX C
MIXTURE WEIGHT	112	112
QUALITY MGMT PROGRAM	QC/OA	QC/OA
SUBLOT SIZE	N/A	N/A

PRINTED DATE: 2/2/2015
FILE NAME: \\Projects\Development\City of Niles\454 Phase II - South Cliff\In Street Bridge\CAD\Drawings\Sheets\02_Cr.f.Dwg



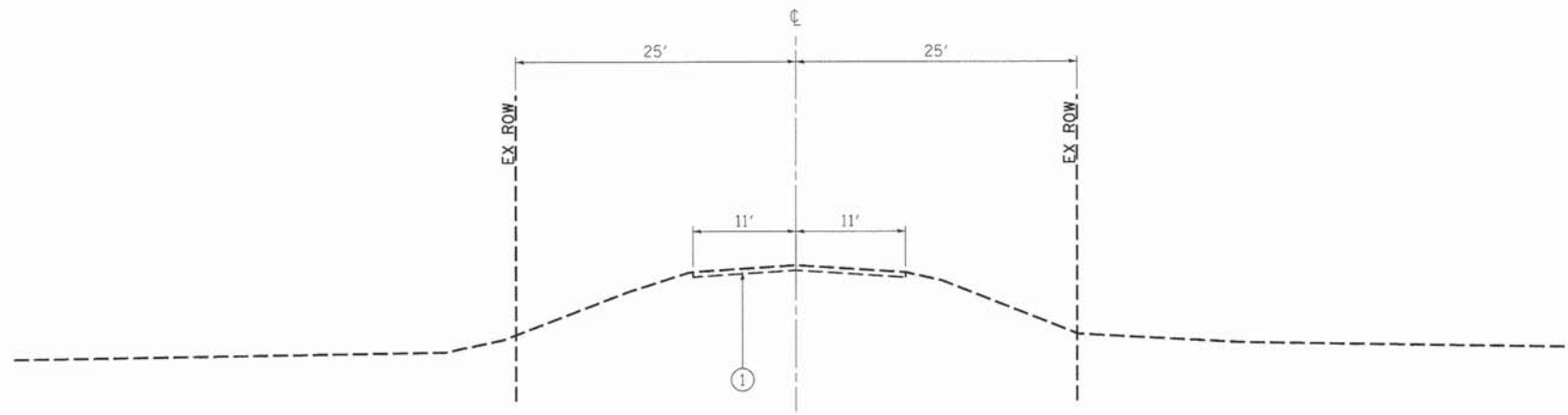
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DRAWN - JEH
CHECKED - DLC
DATE -
PLOT SCALE = 1:8000 * / in.
PLOT DATE = 2/2/2015

DESIGNED - JEH
DRAWN - JEH
CHECKED - DLC
DATE -
REVISED -
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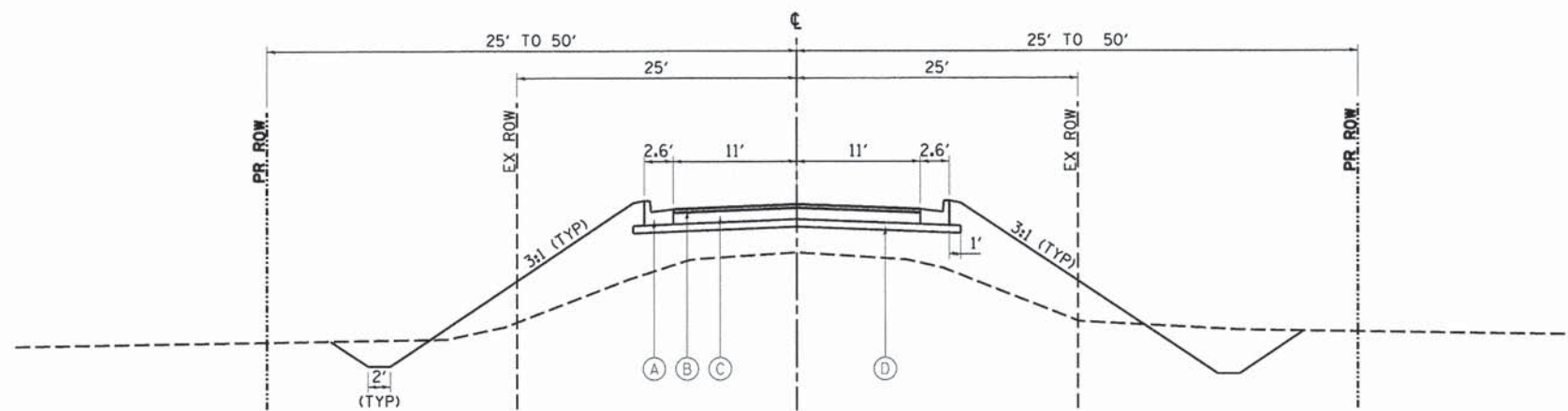
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES / DETAILS

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
7046	10-000341-00-BR	VERMILION	30	2
CONTRACT NO 91512				
ILLINOIS FEDERAL AID PROJECT				



NTS
EXISTING TYPICAL SECTION
 STA 10+15.00 TO STA 12+37.48
 BRIDGE OMISSION
 STA 13+37.48 TO STA 16+00.00



NTS
PROPOSED TYPICAL SECTION
 STA 10+15.00 TO STA 12+37.48
 BRIDGE OMISSION
 STA 13+37.48 TO STA 16+00.00

LEGEND

EXISTING

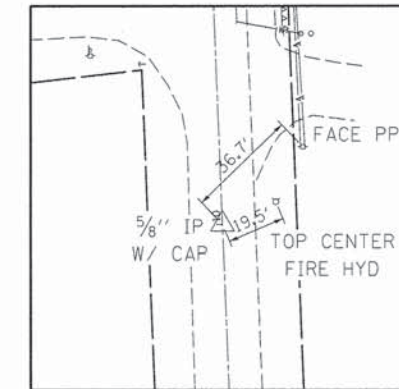
- ① OIL AND CHIP

PROPOSED

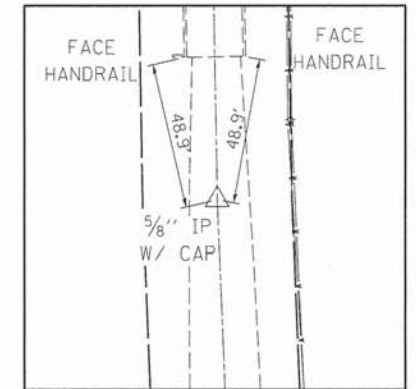
- Ⓐ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- Ⓑ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
- Ⓒ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50
- Ⓓ AGGREGATE BASE COURSE, TYPE B 4"

HIGHWAY STANDARDS

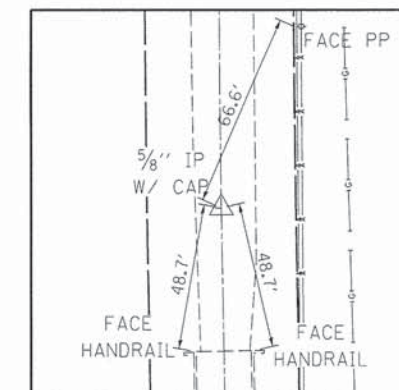
- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 406201-01 MAILBOX TURNOUT
- 420401-11 BRIDGE APPROACH PAVEMENT CONNECTOR
- 515001-03 NAME PLATE FOR BRIDGES
- 601001-04 SUB-SURFACE DRAINS
- 606001-06 CONCRETE CURB AND GUTTER TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 606006-02 OUTLETS FOR CONCRETE CURB AND GUTTER TYPE B-6.24
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 664001-02 CHAIN LINK FENCE
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5M) AWAY
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
- 701901-04 TRAFFIC CONTROL DEVICES



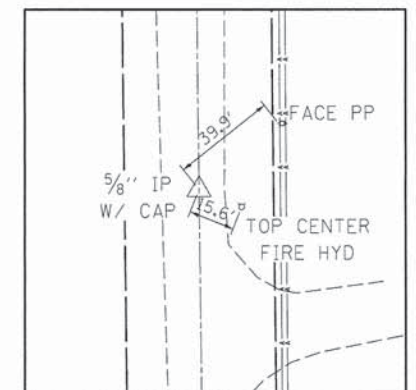
POT
 STA 10+00.00
 N: 1256732.0040
 E: 1188778.6490
 5/8" IRON PIN W/ CAP



PI
 STA 11+99.98
 N: 1256931.8225
 E: 1188770.5710
 5/8" IRON PIN W/ CAP



PI
 STA 13+99.89
 N: 1257131.7905
 E: 1188766.9980
 5/8" IRON PIN W/ CAP



POT
 STA 18+00.0
 N: 1257531.7790
 E: 1188762.2820
 5/8" IRON PIN W/ CAP

PRINTED DATE: 2/2/2015 FILE NAME: W:\Projects\Denver\City of\12-464 Phase II - South Griffin Street Bridge\CAD\Drawings\Sheets\03.Dwg.TYP.dgn



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PLOT DATE = 2/2/2015	CHECKED = DLC	REVISED =
	DATE =	REVISED =

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICALS, TIES

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
7046	10-000341-00-BR	VERMILION	30	3
CONTRACT NO 91512				
ILLINOIS FEDERAL AID PROJECT				

SUMMARY OF QUANTITIES

PAY CODE	ITEM	UNITS	QUANTITY
20200100	EARTH EXCAVATION	CU YD	215
20300100	CHANNEL EXCAVATION	CU YD	184
20400800	FURNISHED EXCAVATION	CU YD	1605
20800150	TRENCH BACKFILL	CU YD	5.0
20900110	POROUS GRANULAR BACKFILL	CU YD	98.0
25000322	SEEDING, CLASS 5A	ACRE	0.75
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	68
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	68
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	68
25100115	MULCH, METHOD 2	ACRE	0.75
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	75
28000305	TEMPORARY DITCH CHECKS	FOOT	36
28000400	PERIMETER EROSION BARRIER	FOOT	1190
28000500	INLET AND PIPE PROTECTION	EACH	3
28100107	STONE RIPRAP, CLASS A4	SQ YD	867
28200200	FILTER FABRIC	SQ YD	867
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	1468
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	16
* 40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	796
40603230	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	397
40603510	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	133
42001300	PROTECTIVE COAT	SQ YD	600
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	85
44000100	PAVEMENT REMOVAL	SQ YD	1272
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	288.0
50300225	CONCRETE STRUCTURES	CU YD	56.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	229.2
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1
50500505	STUD SHEAR CONNECTORS	EACH	870
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	57760
51201600	FURNISHING STEEL PILES HP12X53	FOOT	804
51202305	DRIVING PILES	FOOT	804

* DENOTES SPECIAL PROVISION

SUMMARY OF QUANTITIES

PAY CODE	ITEM	UNITS	QUANTITY
51203600	TEST PILE STEEL HP12X53	EACH	2
51204650	PILE SHOES	EACH	14
51500100	NAME PLATES	EACH	1
52100520	ANCHOR BOLTS, 1"	EACH	20
54215553	METAL END SECTIONS 18"	EACH	2
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	27
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	53
* 56109210	WATER VALVES TO BE ADJUSTED	EACH	1
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	52
60100060	CONCRETE HEADWALLS FOR PIPEDRAINS	EACH	4
60107600	PIPE UNDERDRAINS 4"	FOOT	683
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	59
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	2
60255500	MANHOLES TO BE ADJUSTED	EACH	4
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	11
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	681
Δ 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4
Δ 66400105	CHAIN LINK FENCE, 4'	FOOT	194
67100100	MOBILIZATION	L SUM	1
Δ 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
Δ 81200250	CONDUIT EMBEDDED IN STRUCTURE, 3" DIA., PVC	FOOT	100
* X7010216	TRAFFIC CONTROL & PROTECTION SPECIAL	L SUM	1
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	4
Δ * Z0022800	FENCE REMOVAL	FOOT	194
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	184

* DENOTES SPECIAL PROVISION
 Δ SPECIALTY ITEMS

PRINTED DATE: 2/18/2015
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PLOT DATE = 2/18/2015	CHECKED - DLC	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET NO 1 OF 1 SHEETS

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
7046	10-000341-00-BR	VERMILION	30	4
CONTRACT NO 91512				
ILLINOIS FEDERAL AID PROJECT				

EARTHWORK

STATION	CUT		FILL		TOTAL
	SQ FT	CU YD	SQ FT	CU YD	CU YD
10+25	20.9		1.3		
		14.9		0.5	15.4
10+45	19.6		0.1		
		29.0		3.0	32.0
10+75	32.3		5.2		
		15.7		9.6	25.3
11+00	1.6		15.6		
		4.3		29.4	33.7
11+25	7.6		47.7		
		10.6		52.5	63.1
11+50	15.2		65.6		
		14.1		77.9	92.0
11+75	15.2		102.6		
		17.4		97.0	114.4
12+00	22.3		107.1		
		26.4		180.5	206.9
12+37	15.6		152.8		
13+37	0.0		433.9		
		0.0		417.4	417.4
13+75	0.0		166.9		
		0.0		148.1	148.1
14+00	0.0		153.0		
		0.0		133.7	133.7
14+25	0.0		135.8		
		0.0		125.2	125.2
14+50	0.0		134.5		
		0.0		111.0	111.0
14+75	0.0		105.2		
		0.0		91.0	91.0
15+00	0.0		91.3		
		2.4		79.1	81.5
15+25	5.1		79.5		
		7.8		71.5	79.3
15+50	11.7		74.9		
		21.2		66.9	88.1
15+75	34.1		69.7		
		51.0		68.3	119.3
16+00	76.0		77.9		
TOTAL CUT		TOTAL FILL		TOTAL	
EARTH EXCAVATION		EMBANKMENT		EARTHWORK	
215 CU YD		1763 CU YD		1977 CU YD	
20200100					
FURNISHED EXCAVATION =		1605 CU YD			
20400800					

HMA PAVEMENT

			40603230	40603510	40600275
			POLYMERIZED HMA	POLYMERIZED HMA	PRIME ON
			BINDER COURSE	SURFACE COURSE	HMA
Station	To	Station	TON	TON	POUND
10+15.00		12+07.50	159	53	318
TEXAS AVE			47	16	95
BRIDGE OMISSION					
13+67.48		16+00.00	191	64	383
TOTAL			397	133	796

AG BASE COURSE, TYPE B 4"

			35101600	AGGREGATE
				BASE CSE
Station	To	Station	(SQ YD)	
10+15.00		12+07.51	728	
BRIDGE OMISSION				
13+67.48		16+00.00	740	
TOTAL			1468	

PERIMETER EROSION BARRIER

				28000400	PERIMETER EROSION
					BARRIER
Station	To	Station	SIDE	(FOOT)	
10+11.69		10+60.23	LT	67	
10+12.27		10+32.47	RT	27	
10+57.05		12+55.79	RT	218	
10+92.18		12+70.67	LT	204	
BRIDGE OMISSION					
12+89.83		16+07.37	RT	349	
13+04.82		16+08.03	LT	325	
TOTAL				1190	

COMBINATION CONCRETE CURB & GUTTER

				60605000	CCC&G
					TB B-6.24
STATION	TO	STATION	SIDE	FOOT	
10+15.00		10+62.53	LT	64	
10+90.09		12+09.76	LT	136	
11+26.59		12+05.23	RT	79	
13+65.16		15+66.69	RT	202	
13+69.80		15+70.00	LT	200	
TOTAL				681	

TEMPORARY DITCH CHECKS

			28000305	TEMP DITCH
				CHECKS
Station	SIDE	OFFSET	(FOOT)	
11+25.00	RT	31.4	6	
11+50.00	LT	30.5	6	
11+75.00	RT	36.2	6	
12+00.00	LT	37.3	6	
12+25.00	RT	41.5	6	
12+50.00	LT	41.4	6	
TOTAL			36	

DITCH CHECKS

			28000305	TEMP DITCH
				CHECKS
Station	SIDE	OFFSET	(FOOT)	
11+25.00	RT	31.4	6	
11+50.00	LT	30.5	6	
11+75.00	RT	36.2	6	
12+00.00	LT	37.3	6	
12+25.00	RT	41.5	6	
12+50.00	LT	41.4	6	
TOTAL			36	

INLET & PIPE PROTECTION

			28000500	INLET & PIPE
				PROTECTION
Station	SIDE	OFFSET	(EACH)	
10+62.13	LT	40.0	1	
10+90.79	LT	40.0	1	
11+60.60	LT	32.1	1	
TOTAL			3	

MANHOLE TO BE ADJUSTED

			60255500	MANHOLE
				TO BE ADJ
STATION	OFFSET	SIDE	EACH	
10+83.28	5.7	LT	1	
10+83.71	27.1	LT	1	
11+18.33	3.5	RT	1	
11+20.73	19.1	RT	1	
TOTAL			4	

PAVEMENT REMOVAL

			44000100	PAVEMENT
				REMOVAL
Station	To	Station	SQ YD	
10+15.00		12+47.80	701	
BRIDGE OMISSION				
13+52.20		16+00.00	571	
TOTAL			1272	

WATER VALVE TO BE ADJUSTED

			60255500	WATER VALVE
				TO BE ADJ
STATION	OFFSET	SIDE	EACH	
11+62.21	7.7	RT	1	
TOTAL			1	

STONE RIPRAP, CL A4 & FILTER FABRIC

		28100107 & 28200200	STONE RIPRAP, CLASS A4	FILTER FABRIC
Station	SIDE	(SQ YD)	(SQ YD)	
10+95.04	RT	6.0	6.0	
11+17.99	LT	6.0	6.0	
15+98.27	LT	9.0	9.0	
15+98.27	RT	7.0	7.0	
TOTAL		28	28	

NOTE:
QUANTITY FOR OUTLETS ONLY

PRINTED DATE: 2/10/2015 FILE NAME: N:\Projects\Demoville_City of V12-454 Phase II - South-Griffin-Street-Bridge\CADD\Drawings\Sheets\B5_Griffin_Schedule.dgn



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DRAWN - JEH
PLOT SCALE = 1:8000 / in.
CHECKED - DLC
PLOT DATE = 2/10/2015
DATE -
REVISED -

DESIGNED - JEH
DRAWN - JEH
CHECKED - DLC
DATE -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SHEET NO 1 OF 1 SHEETS

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
7046	10-000341-00-BR	VERMILION	30	5
ILLINOIS FEDERAL AID PROJECT			CONTRACT NO 91512	

PR CURB INLET
ELEV = 549.00
N INV 12" RCP = 547.47

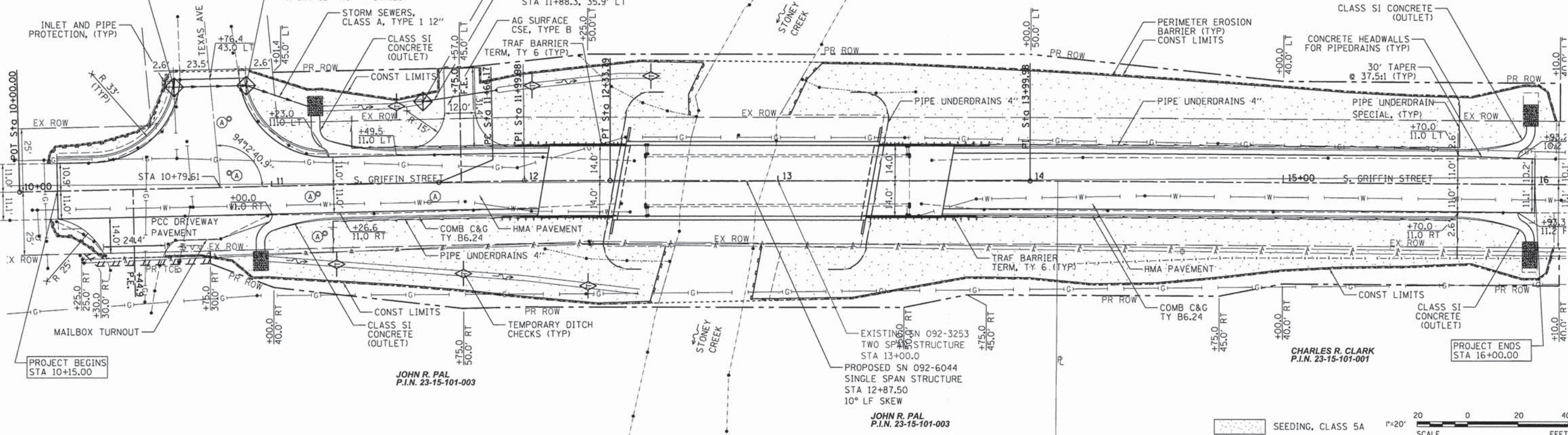
PR CURB INLET
ELEV = 549.00
S INV 12" RCP = 547.29
N INV 12" RCP = 547.29

JOSEPH KINGER
P.I.N. 23-16-226-003

METAL END SECTION, 18" (TYP)
PIPE CULV. CL D,
TY 1 18", 27 LF
STA 11+61.6, 32.2' LT
STA 11+88.3, 35.9' LT

JOSEPH KINGER
P.I.N. 23-16-226-003

CLASS SI CONCRETE (OUTLET)
CONCRETE HEADWALLS FOR PIPEDRAINS (TYP)
30' TAPER @ 37.5:1 (TYP)



PROJECT BEGINS STA 10+15.00

PROJECT ENDS STA 16+00.00

JOHN R. PAL
P.I.N. 23-15-101-003

JOHN R. PAL
P.I.N. 23-15-101-003

CHARLES R. CLARK
P.I.N. 23-15-101-001

SEEDING, CLASS 5A 1"=20'
SCALE 20 0 20 40 FEET

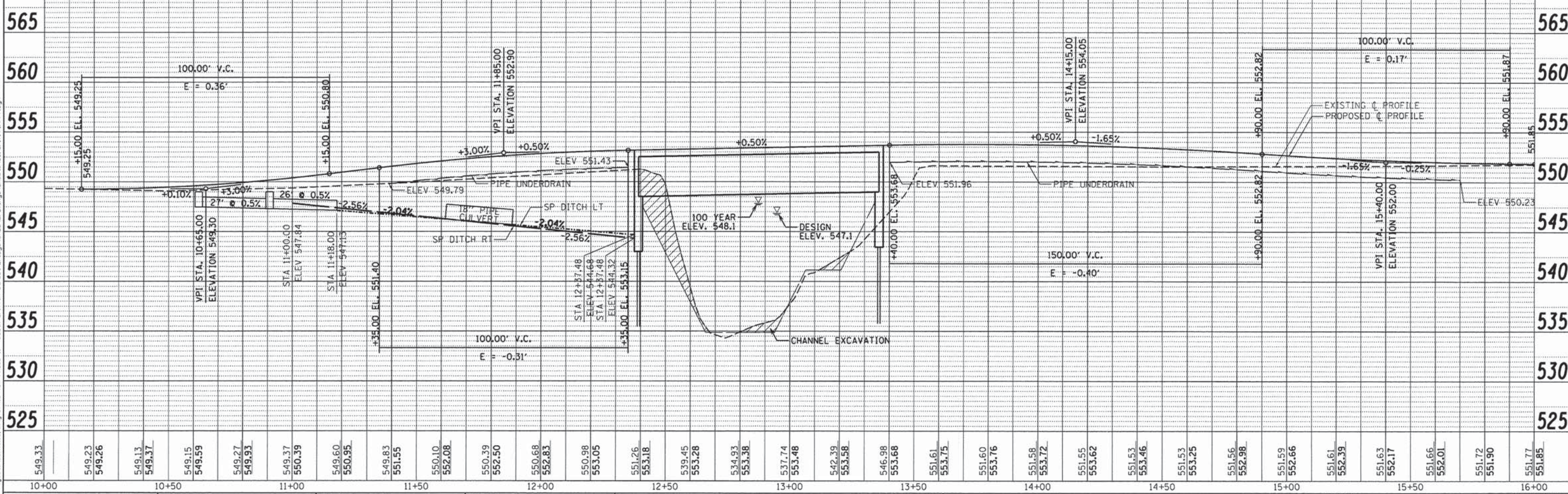


Table with columns for USER NAME, DESIGNED, DRAWN, CHECKED, DATE, REVISED, and SHEET NO. Includes project details like 'STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION' and 'SOUTH GRIFFIN STREET PLAN & PROFILE'.

Table with columns: SURVEYED, ALIGNED, CHECKED, NOTE BOOK NO., DATE.

Table with columns: PROFILE, REVISED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATIONS OK'D, DATE.

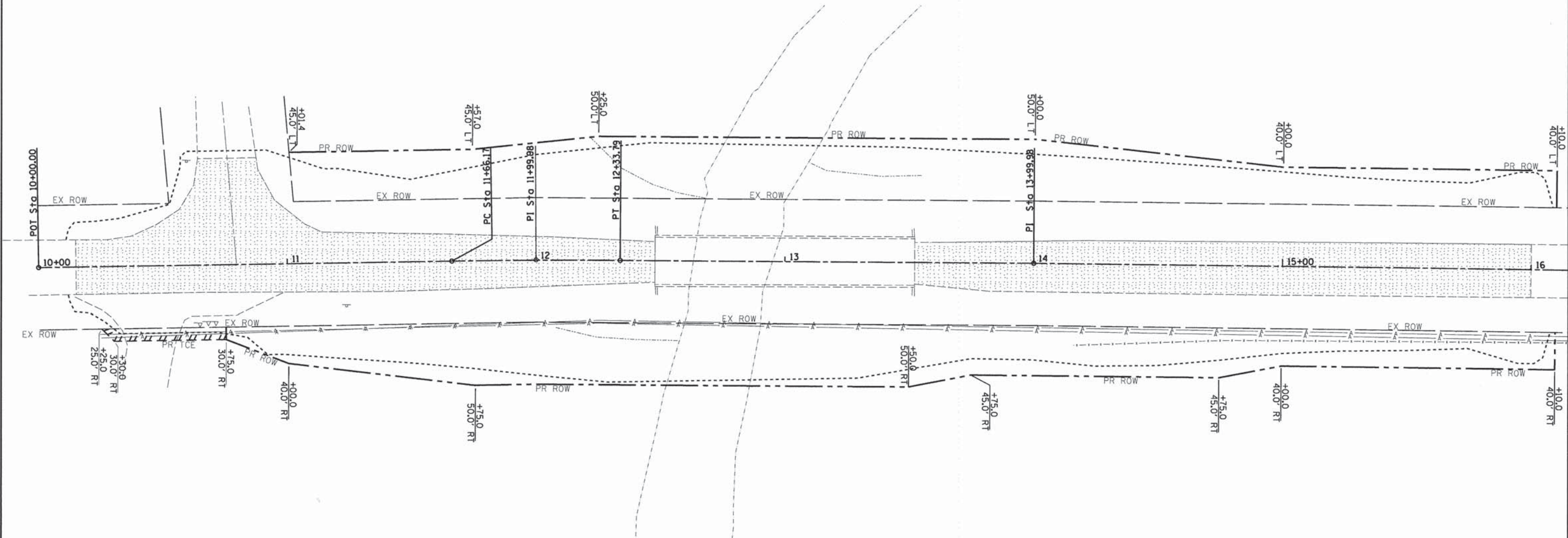
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH GRIFFIN STREET
PLAN & PROFILE

Table with columns: F.A.U. RTE, SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO. Includes values like '7046', '10-00341-00-BR', 'VERMILION', '30', '6', 'CONTRACT NO 91512'.



PAVEMENT REMOVAL



PRINTED DATE: 1/29/2015
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 PLOT DATE = 1/29/2015

DESIGNED - JEH
 DRAWN - JEH
 CHECKED - DLC
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH GRIFFIN STREET
REMOVAL PLAN

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
7046	10-000341-00-BR	VERMILION	30	7
CONTRACT NO 91512				
ILLINOIS FEDERAL AID PROJECT				

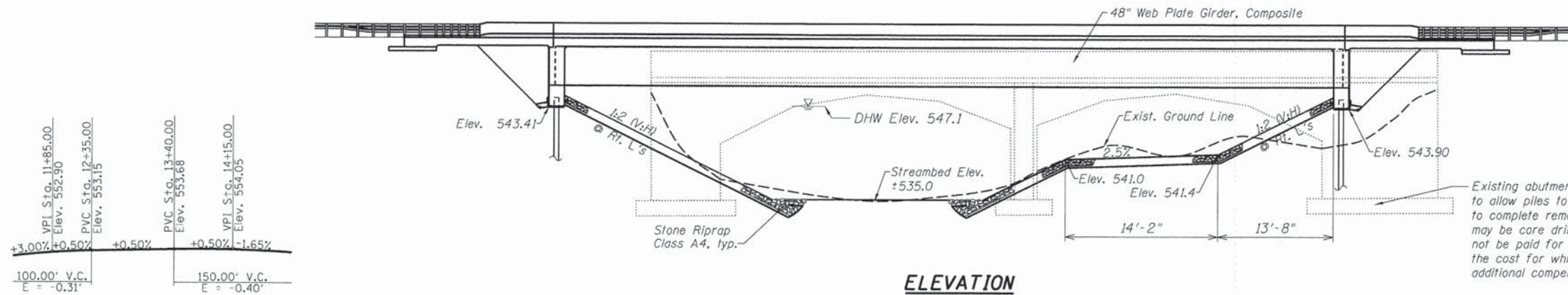
Bench Mark: 5/8" Iron Pin w/ Cap Sta. 11+67.62, 40.35' LT. Elev. 547.23
Spike in Power Pole Sta. 12+26.25, 25.0' RT. Elev. 549.18

Existing Structure: S.N. 092-3253 built in 1900's. Existing superstructure consists of arched reinforced concrete Tee-Beams. The superstructure is supported by concrete closed abutments on a pile supported spread footing, one solid wall reinforced concrete pier on a pile supported spread footing. The back-to-back abutment dimension is 104'-4 1/4" while the out-to-out width measures 20'-7 1/2". Structure to be removed and replaced.

Traffic Control: The roadway will be closed during construction.

INDEX OF SHEETS

1. General Plan & Elevation
2. General Data & Details
- 3.-4. Top of Slab Elevations
5. Top of Approach Slab Elevations
6. Superstructure
7. Superstructure Details
8. Diaphragm Details
- 9.-10. Approach Slab Details
- 11.-12. Plate Girder
13. Drainage Scupper Detail
- 14.-15. Abutments
16. Pile Details
- 17.-18. Boring Logs



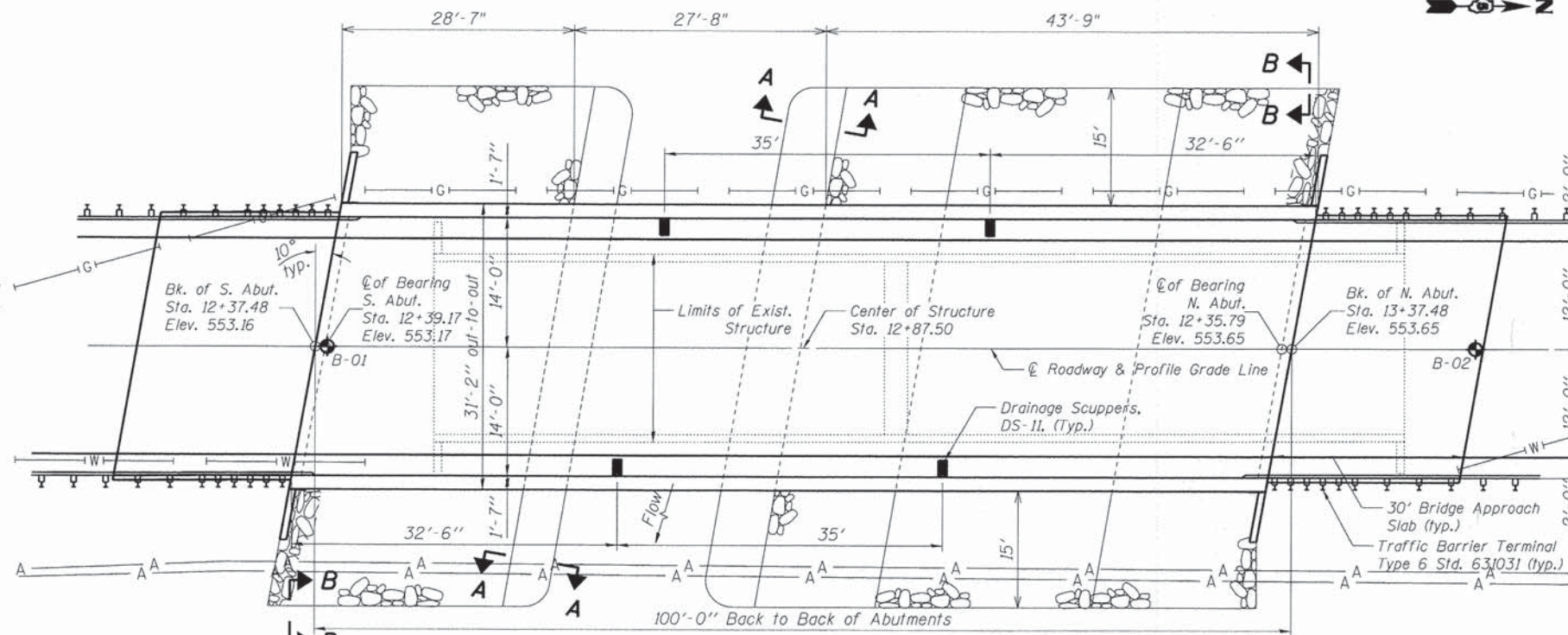
PROFILE GRADE

(Along C Roadway)

STONEY CREEK
BUILT 201_ BY
VERMILION COUNTY
SEC. 10-00341-00-BR
FAU 7046 STA. 12+87.50
STR. NO. 092-6044 LOADING HL-93

LETTERING FOR NAME PLATE

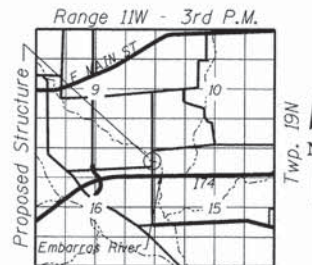
Locate Name Plate on the Outside face of the Southeast Wingwall



PLAN

WATERWAY INFORMATION

Drainage Area = 41.5 sq. mi.		Prop. Low Grade Elev. 549.26 @ Sta. 10+20.00		Nat. H.W.E.		Head - Ft.		Headwater El.	
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exst. Prop.	H.W.E. Exst. Prop.	Head - Ft. Exst. Prop.	Headwater El. Exst. Prop.	Headwater El. Exst. Prop.	Headwater El. Exst. Prop.	Headwater El. Exst. Prop.
Design	30	4290	554.2 777.4	547.1 0.2 0.0	547.3 547.1				
Base	100	5600	605.0 870.6	548.1 0.5 0.0	548.6 548.1				



LOCATION SKETCH



Curtis M. Watkins
License Expires 11-30-2016
Date 1/25/2015

I certify that to the best of knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications with 2012 & 2013 Interims

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (AASHTO M 270 Grade 50W)

LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.131g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.226g
Soil Site Class = D

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	S. Abut.	N. Abut.
	543.41	543.90

GENERAL PLAN

S GRIFFIN ST OVER STONEY CREEK
FAU 7046 - SECTION 10-00341-00-BR
VERMILION COUNTY
STATION 12+87.50
STRUCTURE NO. 092-6044



USER NAME = Jhickox
PLOT SCALE = 8:1,0000 1/4" = 1'-0"
PLOT DATE = 1/13/2015

DESIGNED - DF
CHECKED -
DRAWN - JEH
CHECKED - DF/DC

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

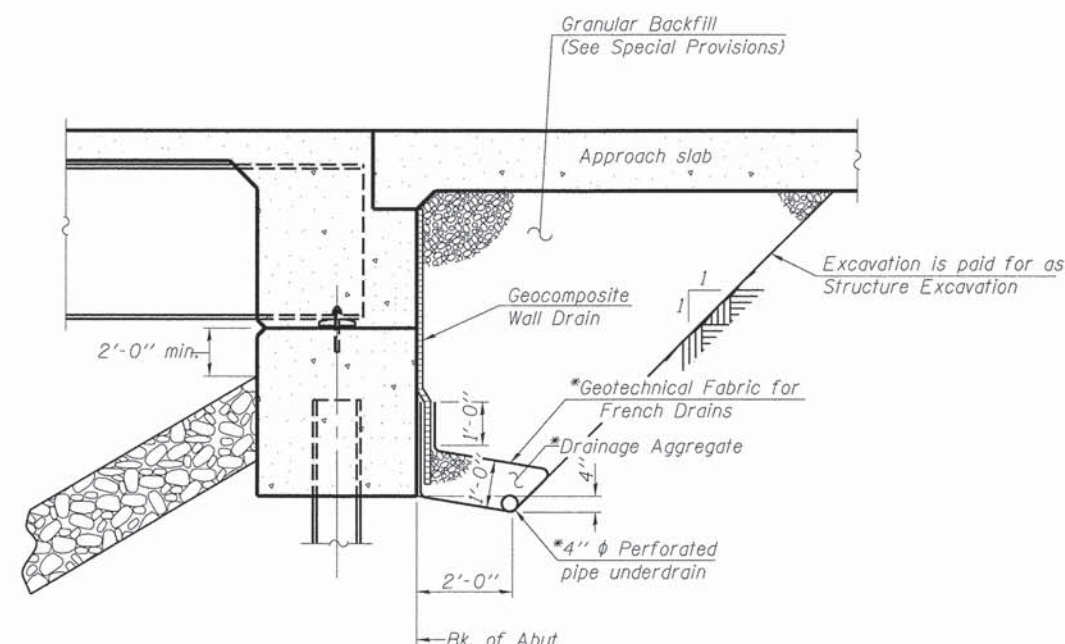
STRUCTURE NO. 092-6044

SHEET NO 1 OF 18 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7046	10-00341-00-BR	VERMILION	30	8

CONTRACT NO. 91512
ILLINOIS FED. AID PROJECT

PRINTED DATE: 1/13/2015
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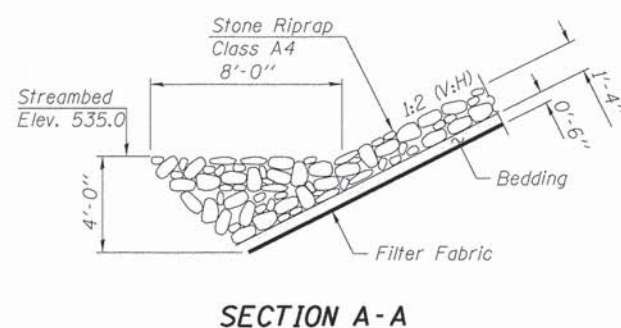


SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

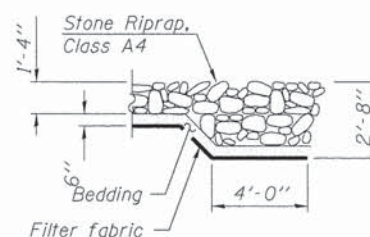
*Included in the cost of Pipe Underdrains for Structures.
(See Special Provisions)

Note:

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 60110).



SECTION A-A



SECTION B-B

GENERAL NOTES

- Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts (in painted areas and ASTM A325 Type 3 in unpainted areas). Bolts $\frac{3}{4}$ -in. ϕ , holes $\frac{15}{16}$ -in. ϕ , unless otherwise noted.
- Calculated weight of Structural Steel = 80,900lb
- All structural steel shall be AASHTO M 270 Grade 50W.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
- All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or 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.
- Two $\frac{1}{8}$ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
- Piles shall be driven through - diameter precored holes extending to elevation - according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yd.	-	288	288
Drainage Scupper, DS-11	Each	4	-	4
Concrete Structures	Cu. Yd.	56	-	56
Concrete Superstructure	Cu. Yd.	229.2	-	229.2
Porous Granular Backfill	Cu. Yd.	-	98	98
Protective Coat	Sq. Yd.	600	-	600
Stone Riprap, Class A4	Sq. Yd.	661.1	-	661.1
Furnishing and Erecting Structural Steel	L. Sum	1	-	1
Stud Shear Connectors	Each	870	-	870
Reinforcement Bars, Epoxy Coated	Pound	51000	6760	57760
Filter Fabric	Sq. Yd.	661.1	-	661.1
Furnishing Steel Piles HP 12x53	Foot	-	804	804
Driving Piles	Foot	-	804	804
Test Pile Steel HP 12x53	Each	-	2	2
Pile Shoes	Each	-	14	14
Name Plates	Each	-	-	1
Removal of Existing Structures	Each	-	-	1
Anchor Bolt 1"	Each	-	20	20
Geocomposite Wall Drain	Sq. Yd.	-	52	52
Pipe Underdrains for Structures, 4"	Foot	-	184	184

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FILE NAME: N:\Projects\Denver\116, City of\12-454 Phase II - South Griffin Street Bridge\CADD\Drawings\Sheets\09-Griffin Bridge.dwg

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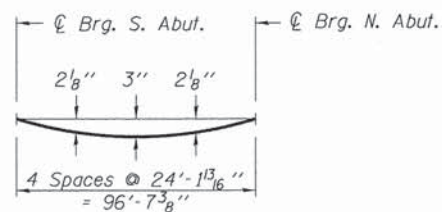
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 092-6044

SHEET NO 2 OF 18 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7046	10-00341-00-BR	VERMILION	30	9

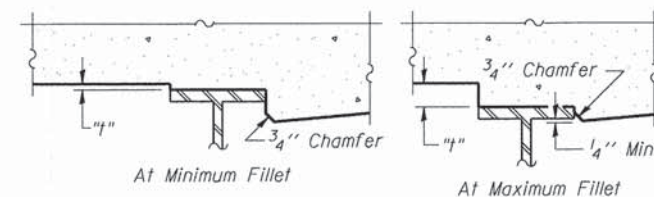
CONTRACT NO. 91512
ILLINOIS FED. AID PROJECT



DEAD LOAD DEFLECTION DIAGRAM

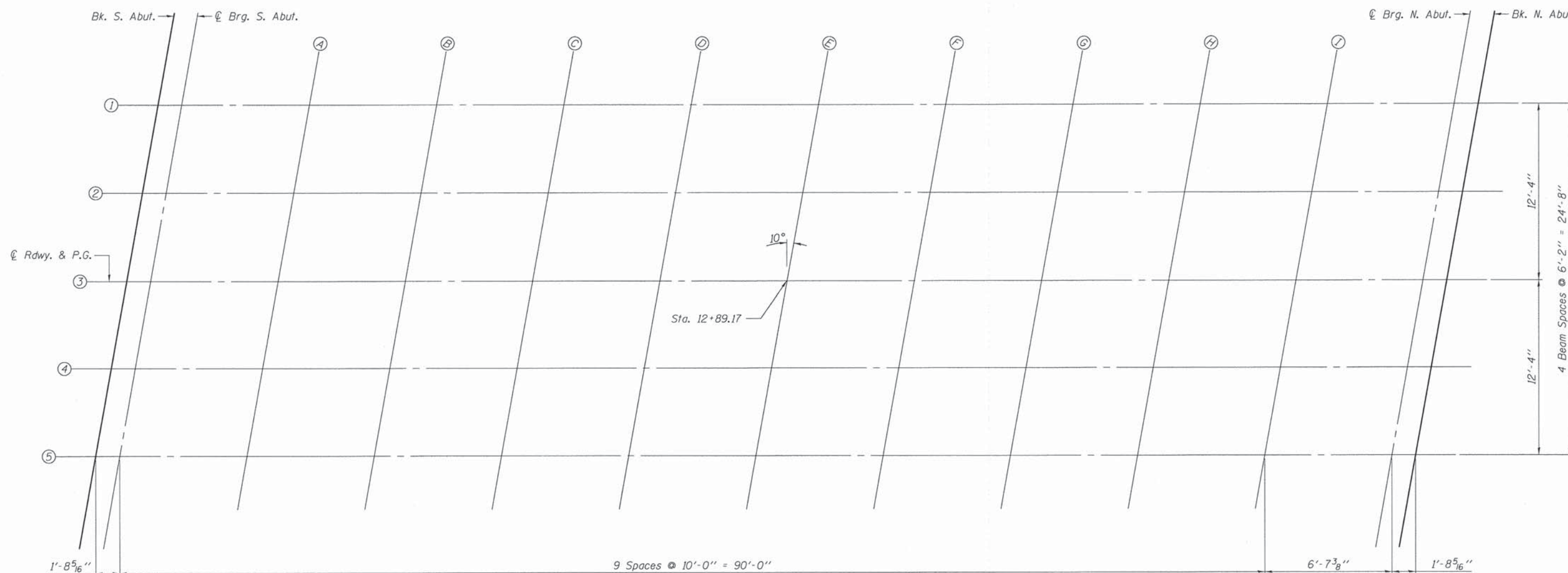
(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN

PRINTED DATE: 1/7/2015
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E-S



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 092-6044

SHEET NO 3 OF 18 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7046	10-00341-00-BR	VERMILION	30	10
CONTRACT NO. 91512				
ILLINOIS FED. AID PROJECT				

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut	12+39.65	-12.33	552.98	552.98
CL Brg. S. Abut	12+41.34	-12.33	552.99	552.99
A	12+51.34	-12.33	553.04	553.12
B	12+61.34	-12.33	553.09	553.24
C	12+71.34	-12.33	553.14	553.35
D	12+81.34	-12.33	553.19	553.44
E	12+91.34	-12.33	553.24	553.49
F	13+01.34	-12.33	553.29	553.53
G	13+11.34	-12.33	553.34	553.53
H	13+21.34	-12.33	553.39	553.52
I	13+31.34	-12.33	553.44	553.49
CL Brg. S. Abut	13+37.96	-12.33	553.47	553.47
Bk N. Abut	13+39.65	-12.33	553.48	553.48

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut	12+38.57	-6.17	553.07	553.07
CL Brg. S. Abut	12+40.26	-6.17	553.08	553.08
A	12+50.26	-6.17	553.13	553.21
B	12+60.26	-6.17	553.18	553.34
C	12+70.26	-6.17	553.23	553.44
D	12+80.26	-6.17	553.28	553.53
E	12+90.26	-6.17	553.33	553.59
F	13+00.26	-6.17	553.38	553.62
G	13+10.26	-6.17	553.43	553.63
H	13+20.26	-6.17	553.48	553.61
I	13+30.26	-6.17	553.53	553.59
CL Brg. S. Abut	13+36.88	-6.17	553.56	553.56
Bk N. Abut	13+38.57	-6.17	553.57	553.57

PGL & BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut	12+37.48	0.00	553.16	553.16
CL Brg. S. Abut	12+39.17	0.00	553.17	553.17
A	12+49.17	0.00	553.22	553.30
B	12+59.17	0.00	553.27	553.43
C	12+69.17	0.00	553.32	553.53
D	12+79.17	0.00	553.37	553.62
E	12+89.17	0.00	553.42	553.68
F	12+99.17	0.00	553.47	553.71
G	13+09.17	0.00	553.52	553.72
H	13+19.17	0.00	553.57	553.70
I	13+29.17	0.00	553.62	553.68
CL Brg. S. Abut	13+35.79	0.00	553.65	553.65
Bk N. Abut	13+37.48	0.00	553.66	553.66

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut	12+36.39	6.17	553.06	553.06
CL Brg. S. Abut	12+38.08	6.17	553.07	553.07
A	12+48.08	6.17	553.12	553.20
B	12+58.08	6.17	553.17	553.33
C	12+68.08	6.17	553.22	553.43
D	12+78.08	6.17	553.27	553.52
E	12+88.08	6.17	553.32	553.58
F	12+98.08	6.17	553.37	553.61
G	13+08.08	6.17	553.42	553.62
H	13+18.08	6.17	553.47	553.60
I	13+28.08	6.17	553.52	553.57
CL Brg. S. Abut	13+34.70	6.17	553.55	553.55
Bk N. Abut	13+36.39	6.17	553.56	553.56

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut	12+35.31	12.33	552.96	552.96
CL Brg. S. Abut	12+37.00	12.33	552.97	552.97
A	12+47.00	12.33	553.02	553.10
B	12+57.00	12.33	553.07	553.22
C	12+67.00	12.33	553.12	553.33
D	12+77.00	12.33	553.17	553.41
E	12+87.00	12.33	553.22	553.47
F	12+97.00	12.33	553.27	553.50
G	13+07.00	12.33	553.32	553.51
H	13+17.00	12.33	553.37	553.50
I	13+27.00	12.33	553.42	553.47
CL Brg. S. Abut	13+33.62	12.33	553.45	553.45
Bk N. Abut	13+35.31	12.33	553.46	553.46

PRINTED DATE: 1/7/2015
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E-S

7-1-10



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 092-6044

SHEET NO 4 OF 18 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7046	10-00341-00-BR	VERMILION	30	11
CONTRACT NO. 91512				
ILLINOIS FED. AID PROJECT				

CL & PGL

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pavmt.	12+08.50	0.00	552.93
A1	12+18.50	0.00	553.03
A2	12+28.50	0.00	553.11
N. End South Appr. Pavmt.	12+38.50	0.00	553.17
S. End North Appr. Pavmt.	13+36.46	0.00	553.66
A3	13+46.46	0.00	553.71
A4	13+56.46	0.00	553.74
N. End North Appr. Pavmt.	13+66.46	0.00	553.76

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pavmt.	12+10.96	-14.00	552.73
A1	12+20.96	-14.00	552.83
A2	12+30.96	-14.00	552.90
N. End South Appr. Pavmt.	12+40.96	-14.00	552.95
S. End North Appr. Pavmt.	12+10.96	-14.00	552.73
A3	12+20.96	-14.00	552.83
A4	12+30.96	-14.00	552.90
N. End North Appr. Pavmt.	12+40.96	-14.00	552.95

WEST EDGE OF PAVEMENT

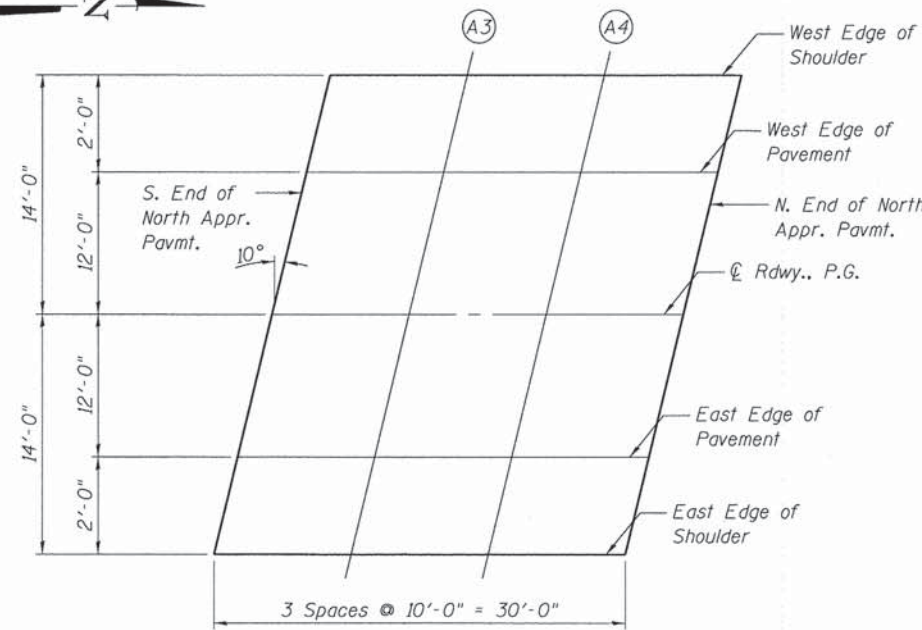
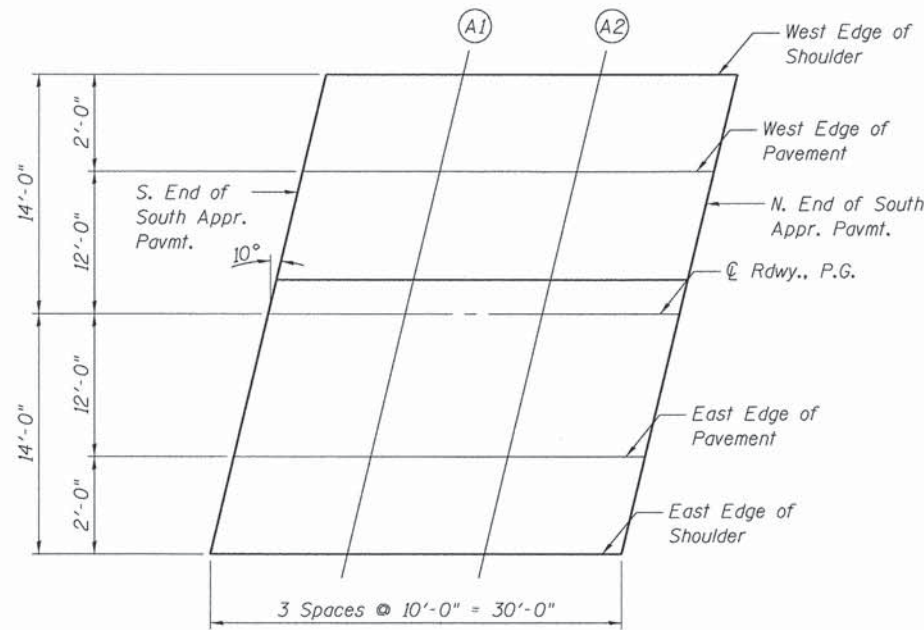
Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pavmt.	12+10.61	-12.00	552.77
A1	12+20.61	-12.00	552.86
A2	12+30.61	-12.00	552.94
N. End South Appr. Pavmt.	12+40.61	-12.00	552.99
S. End North Appr. Pavmt.	12+10.61	-12.00	552.77
A3	12+20.61	-12.00	552.86
A4	12+30.61	-12.00	552.94
N. End North Appr. Pavmt.	12+40.61	-12.00	552.99

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pavmt.	12+06.38	12.00	552.72
A1	12+16.38	12.00	552.83
A2	12+26.38	12.00	552.91
N. End South Appr. Pavmt.	12+36.38	12.00	552.97
S. End North Appr. Pavmt.	12+06.38	12.00	552.72
A3	12+16.38	12.00	552.83
A4	12+26.38	12.00	552.91
N. End North Appr. Pavmt.	12+36.38	12.00	552.97

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pavmt.	12+06.03	14.00	552.67
A1	12+16.03	14.00	552.78
A2	12+26.03	14.00	552.87
N. End South Appr. Pavmt.	12+36.03	14.00	552.93
S. End North Appr. Pavmt.	12+06.03	14.00	552.67
A3	12+16.03	14.00	552.78
A4	12+26.03	14.00	552.87
N. End North Appr. Pavmt.	12+36.03	14.00	552.93



PLAN

E-AS

7-1-10

PRINTED DATE: 1/7/2015
FILE: \\net1\projects\denver\11a_c\12-484 Phase II - South Griffin Street Bridge\CADD\Drawings\Sheets\12-Gr-F-AS\Slab Elev.dwg



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DEPARTMENT OF TRANSPORTATION**

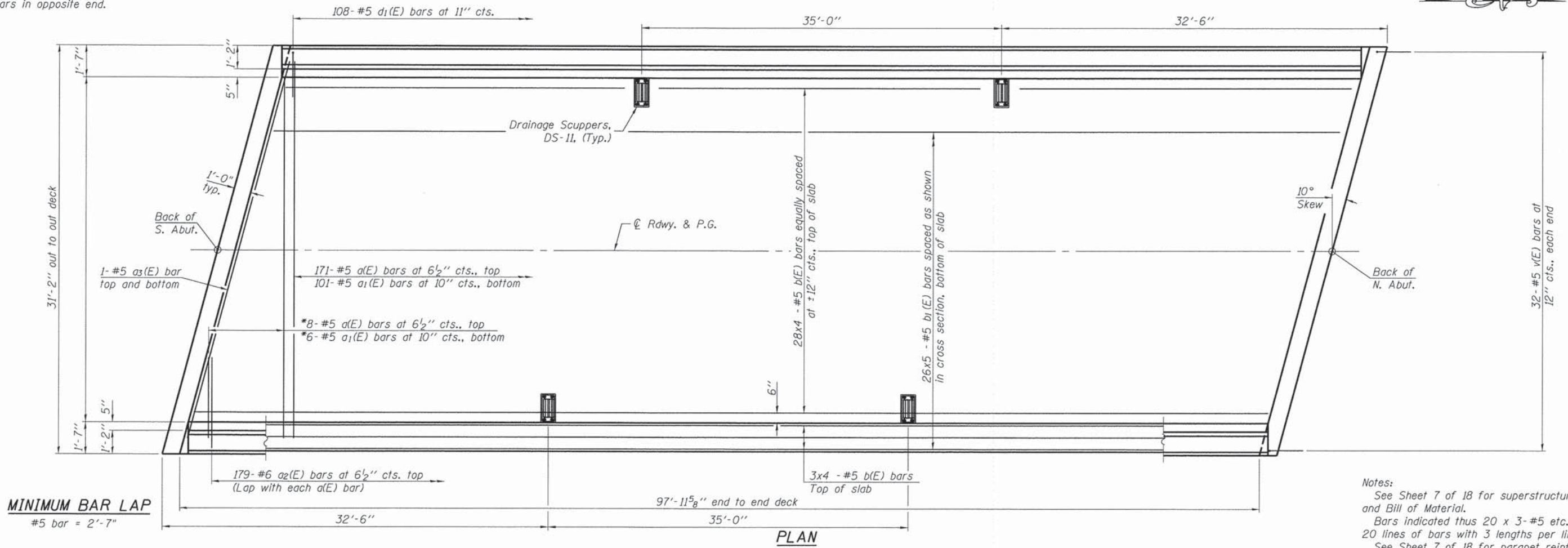
**TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 092-6044**

SHEET NO 5 OF 18 SHEETS

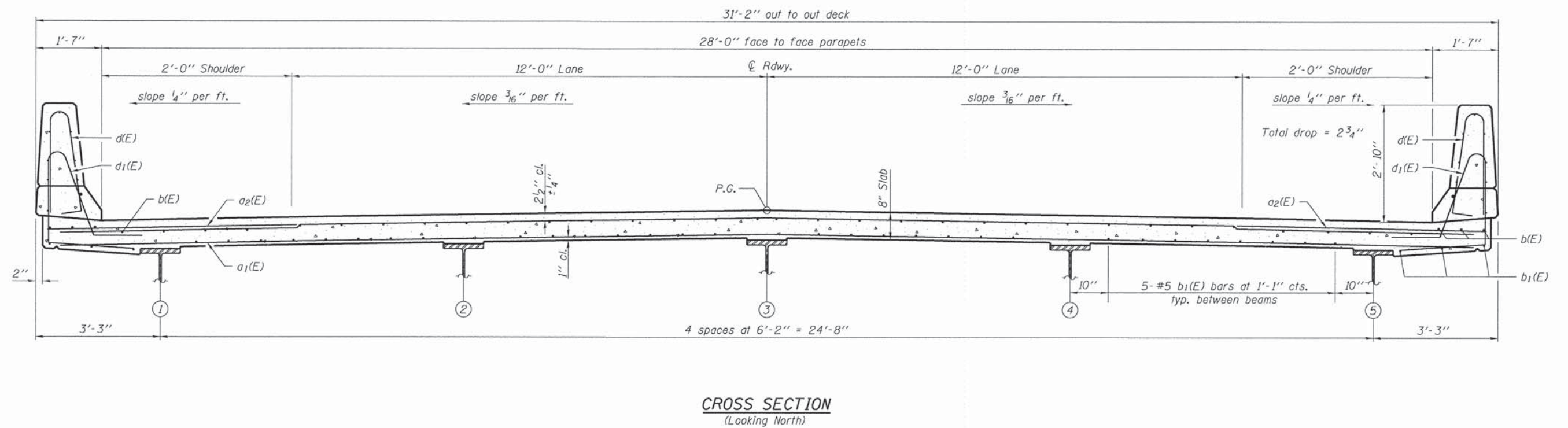
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7046	10-00341-00-BR	VERMILION	30	12
CONTRACT NO. 91512				

ILLINOIS FED. AID PROJECT

* Order d(E) and a₁(E) bars full length.
Cut to fit skew and use remainder
of bars in opposite end.



Notes:
See Sheet 7 of 18 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 7 of 18 for parapet reinforcement.



PRINTED DATE: 1/7/2015
FILE NAME: N:\Projects\Denver\13. Grif. Super Plan.dgn

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8-31-12



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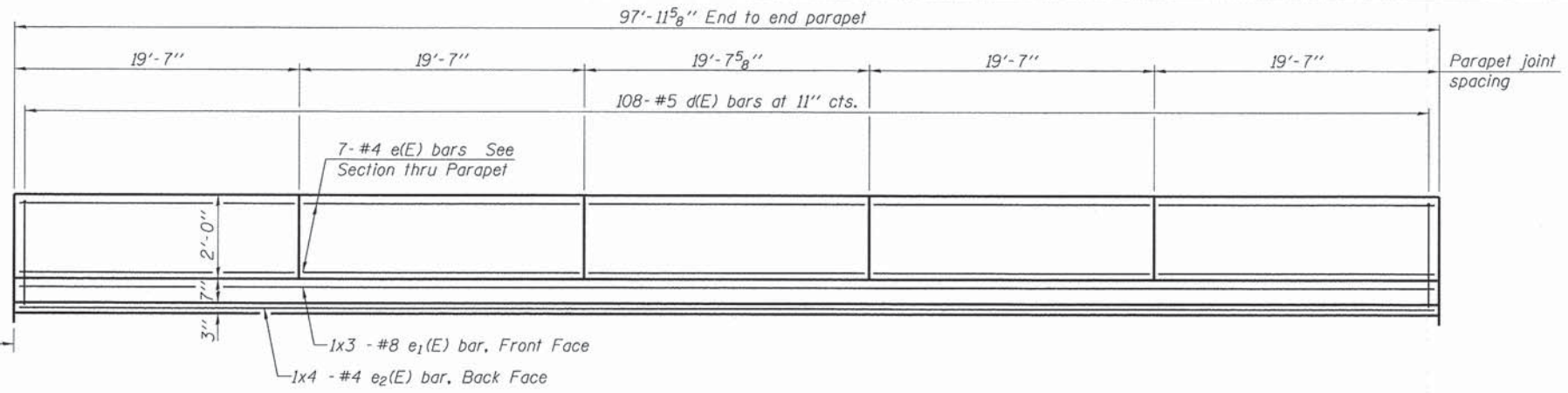
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 092-6044

SHEET NO 6 OF 18 SHEETS

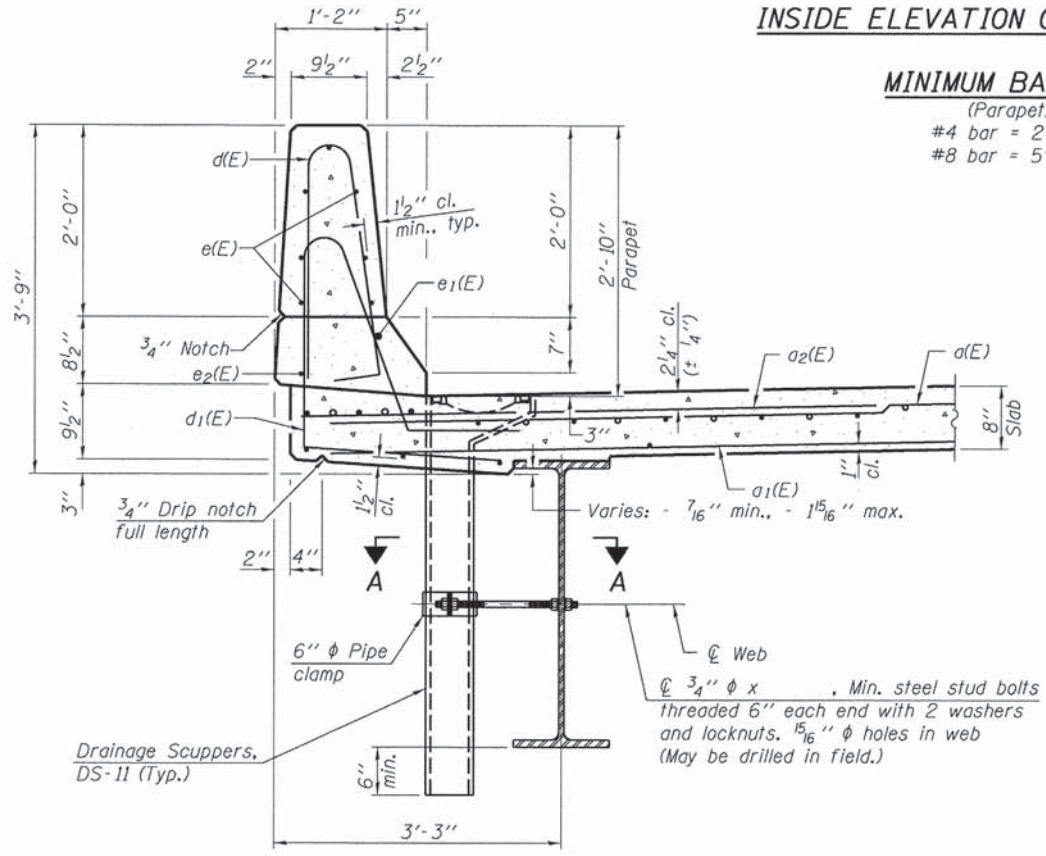
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CONTRACT NO. 91512				

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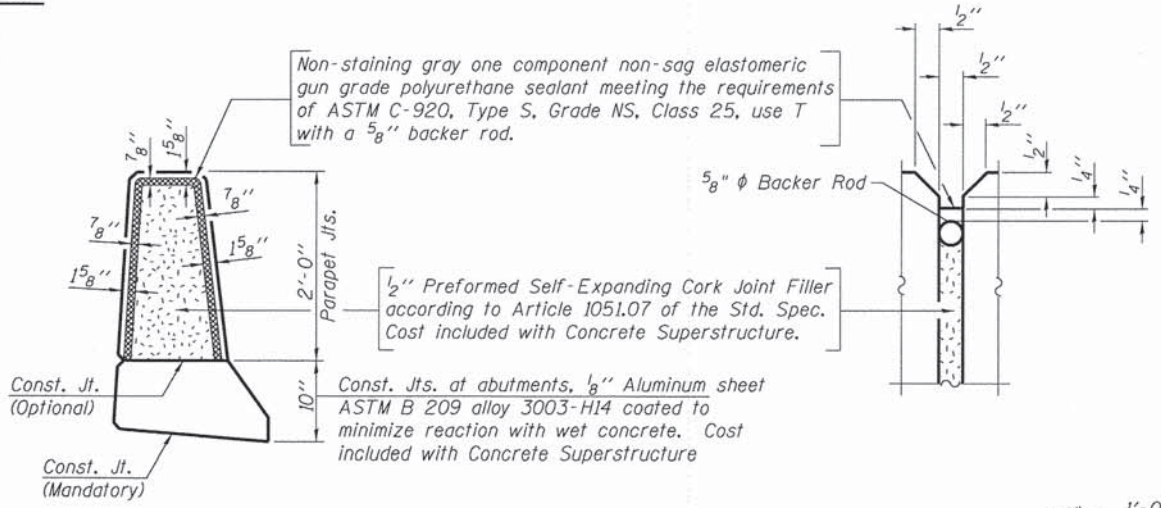


INSIDE ELEVATION OF PARAPET

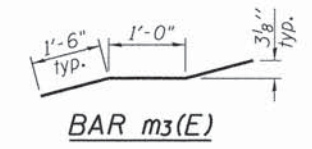
MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"



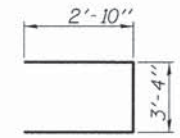
SECTION THRU PARAPET



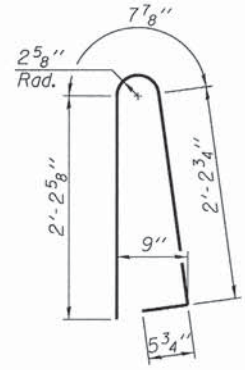
PARAPET JOINT DETAILS



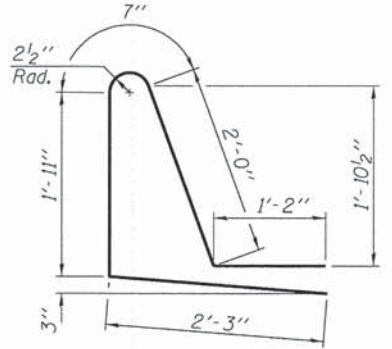
BAR m3(E)



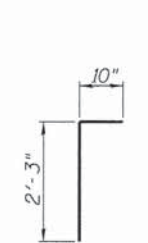
BAR s(E)



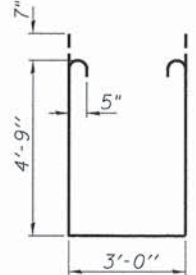
BAR d(E)



BAR d1(E)



BAR v(E)



BAR s1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	179	#5	30'-2"	—
a1(E)	107	#5	29'-11"	—
a2(E)	358	#6	6'-6"	—
a3(E)	4	#5	30'-11"	—
b(E)	136	#5	26'-5"	—
b1(E)	130	#5	21'-8"	—
d(E)	216	#5	5'-7"	⌒
d1(E)	216	#5	7'-11"	⌒
e(E)	70	#4	19'-3"	—
e1(E)	6	#8	36'-0"	—
e2(E)	8	#4	26'-0"	—
m(E)	10	#6	31'-4"	—
m1(E)	32	#6	5'-11"	—
m2(E)	16	#6	2'-11"	—
m3(E)	40	#5	4'-0"	—
s(E)	60	#5	9'-0"	⌒
s1(E)	60	#5	13'-8"	⌒
v(E)	64	#5	3'-1"	⌒
Reinforcement Bars, Epoxy Coated		Pound	26560	
Concrete Superstructure		Cu. Yds.	137.0	

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

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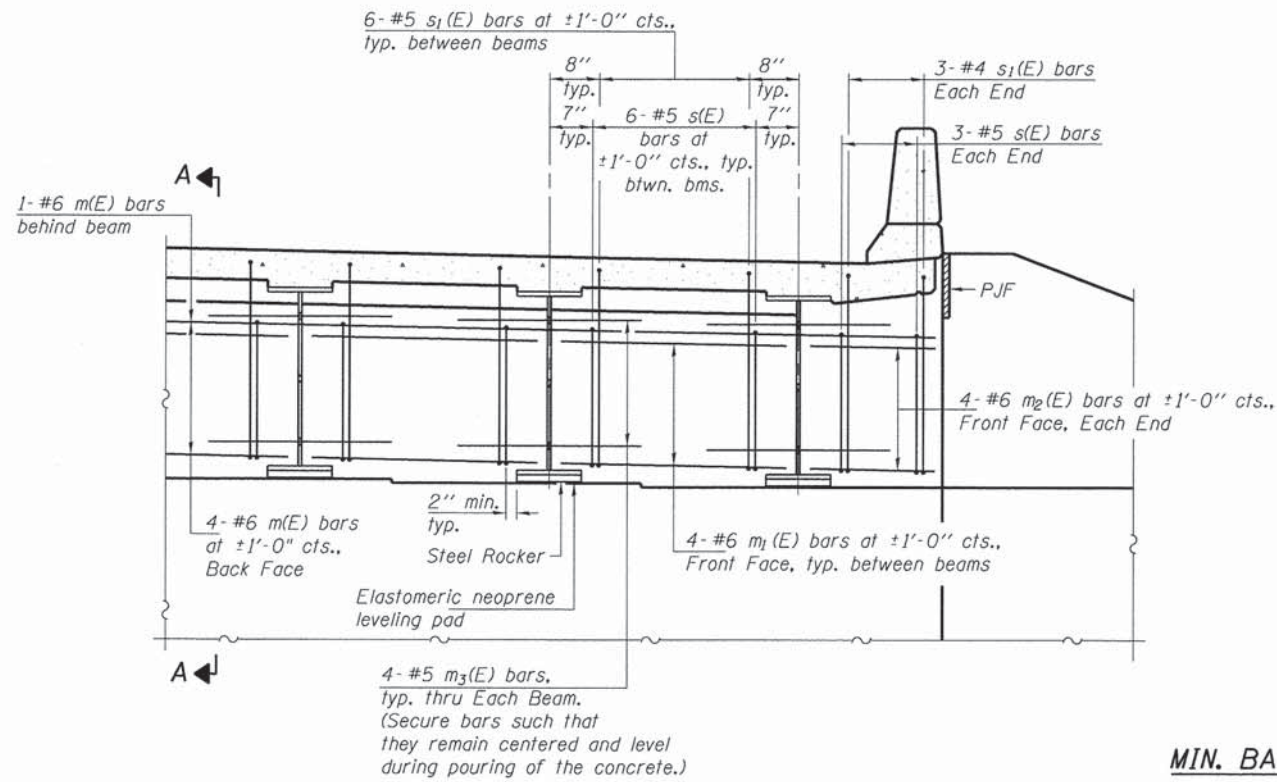
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	CHECKED - DF/DC	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 092-6044

SHEET NO 7 OF 18 SHEETS

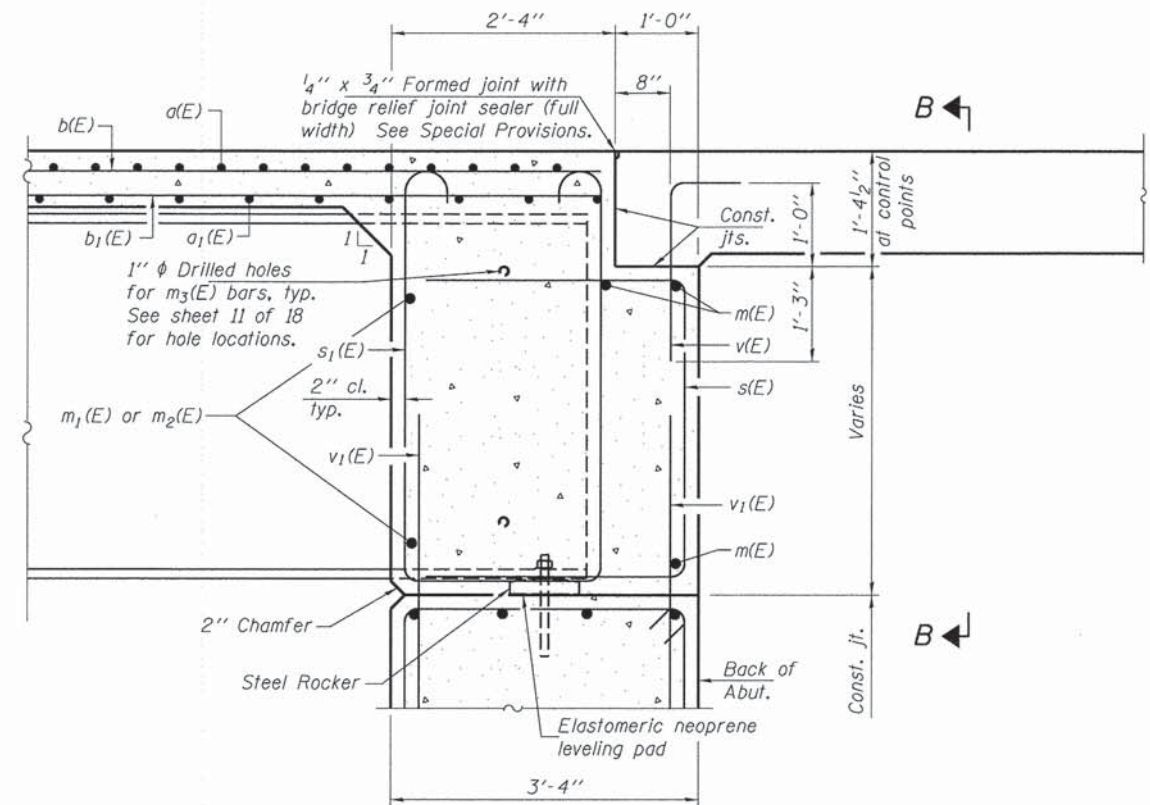
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			CONTRACT NO. 91512	
ILLINOIS FED. AID PROJECT				



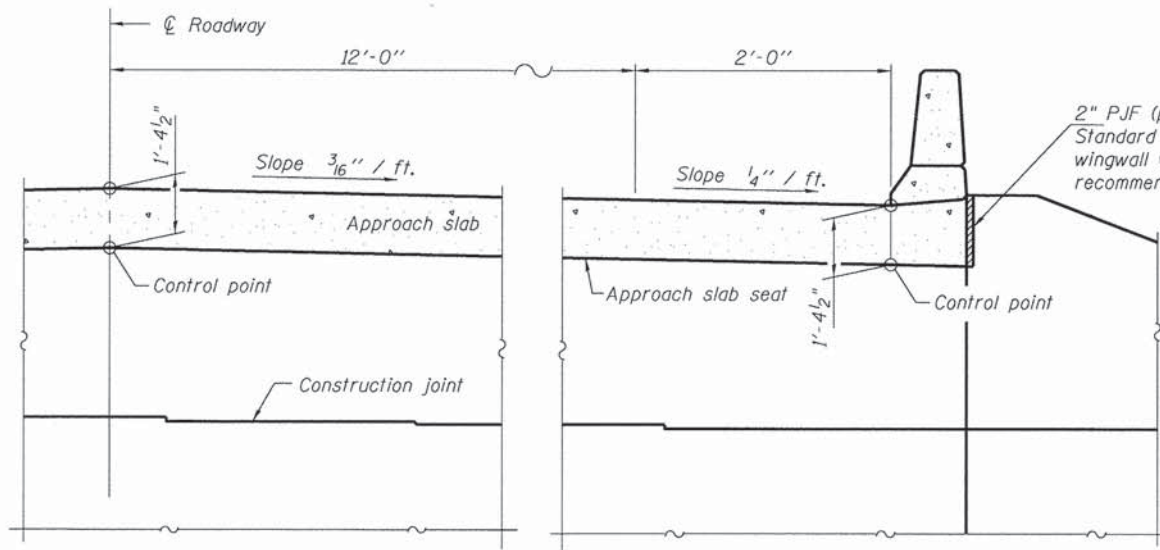
DIAPHRAGM ELEVATION AT ABUTMENT

MIN. BAR LAP

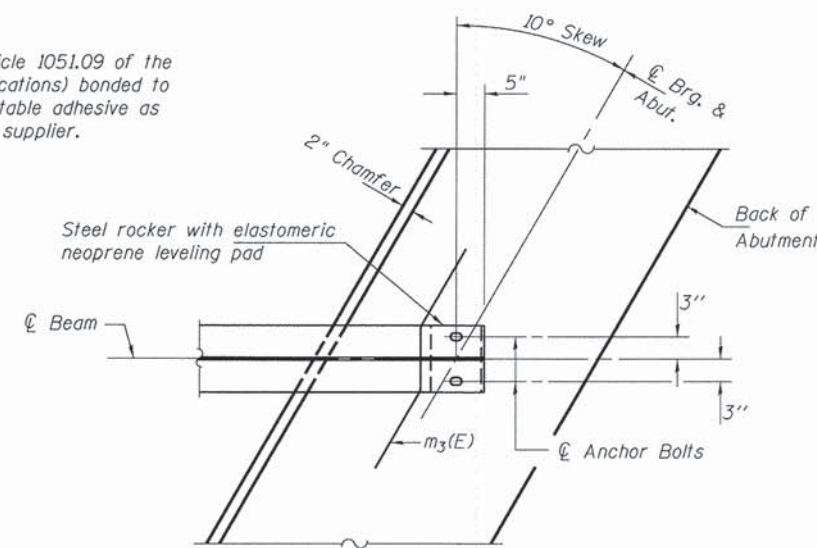
#6 bar = 3'-4"



SECTION A-A
(at Rt. L's)



SECTION B-B



PARTIAL PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
 Reinforcement bars in diaphragm are billed with superstructure on sheet 7 of 18.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 7 of 18.
 For details of bars s(E), s1(E) and v(E) see sheet 7 of 18.
 The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
 The approach slab seat shall have a constant slope determined from the control points shown.
 For bearing details see sheet 12 of 18.

PRINTED DATE: 1/7/2015
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8-31-12

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 092-6044

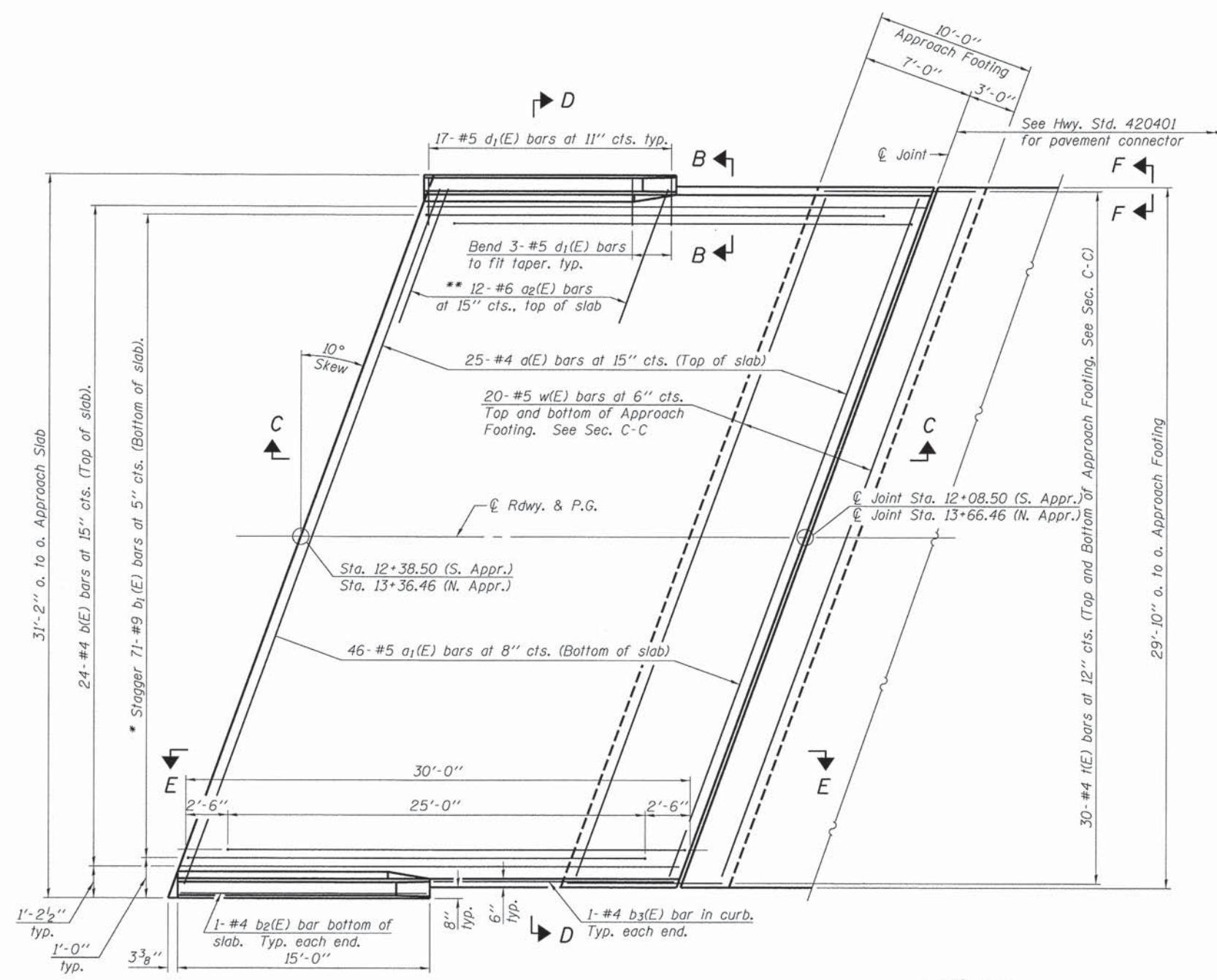
SHEET NO 8 OF 18 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 91512				

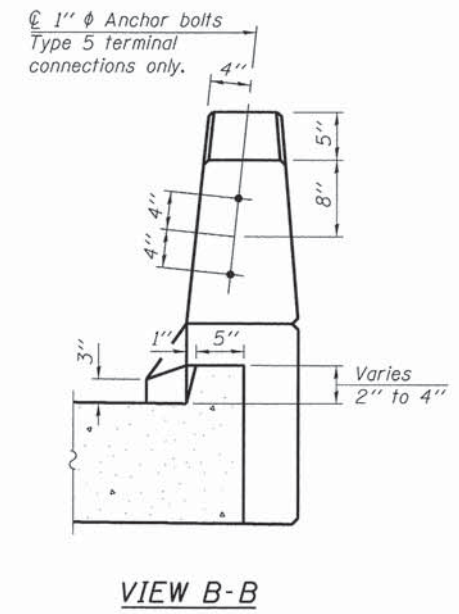
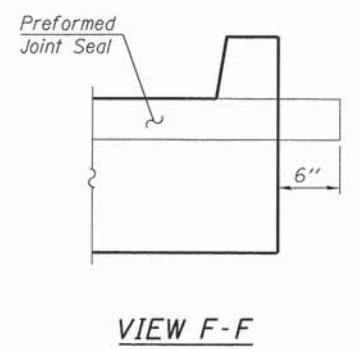
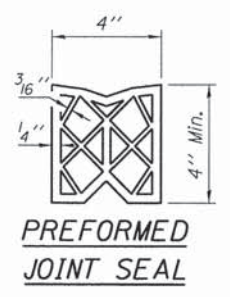
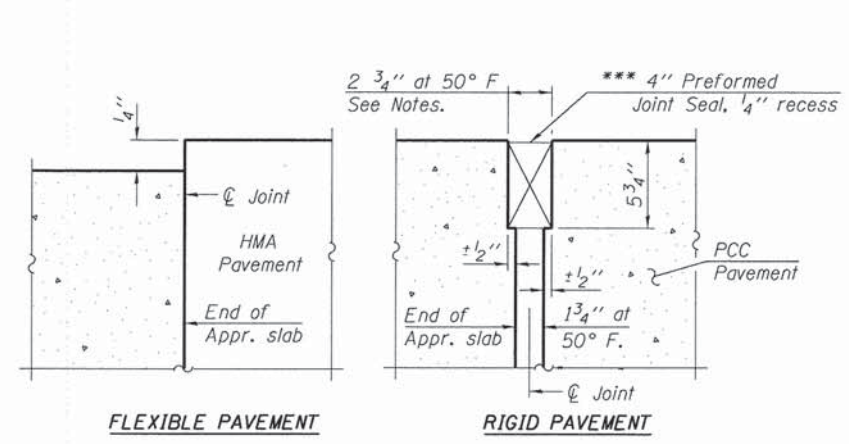
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Notes:
 See sheet 10 of 18 for Sections C-C & D-D and View E-E.
 a(E) and a₁(E) bar spacings measured along ϕ Rdwy.
 The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be 1 1/2' for installation purposes.

*** Cost included with Concrete Superstructure.



* Tilt #9 b₁(E) bars as required to maintain clearance.
 ** Space between a(E) bars, typ. each parapet.



BA-L

12-12-12

(Sheet 1 of 2)



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

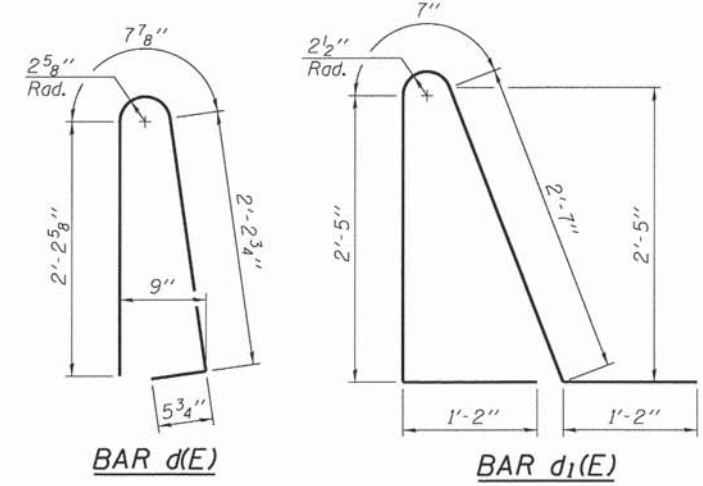
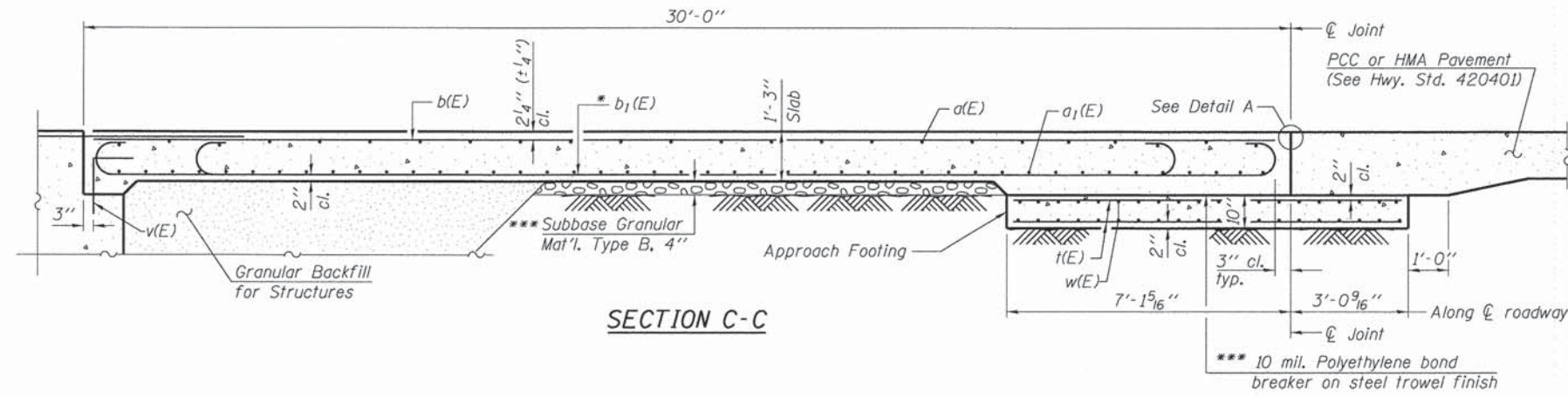
BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 092-6044

SHEET NO 9 OF 18 SHEETS

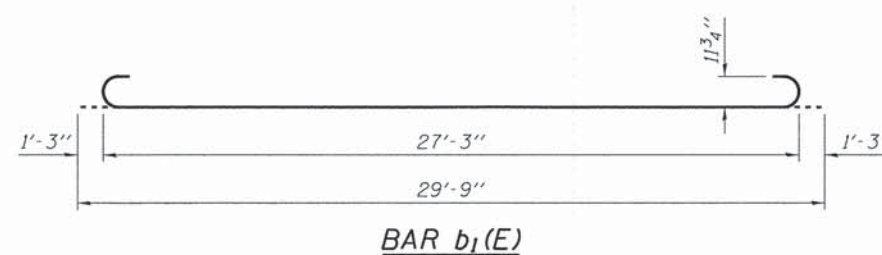
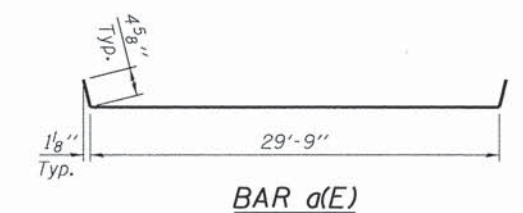
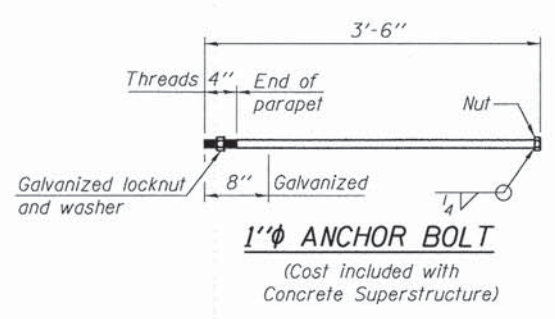
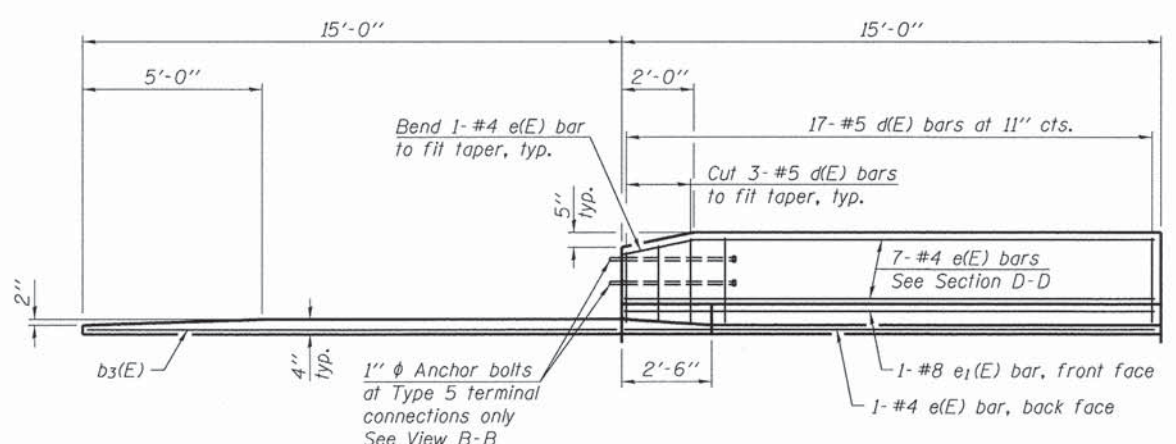
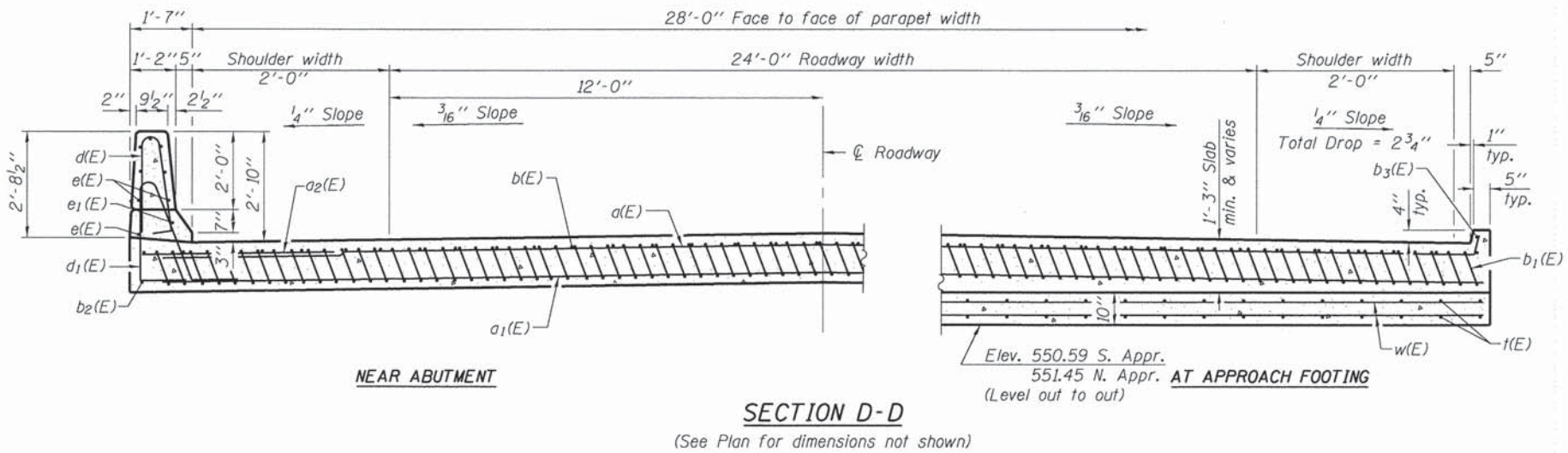
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CONTRACT NO. 91512				
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 Phase II - South Dr. Street Bridge\092-6044\Drawings\Sheet\16_Dr-F_Slab Det.dwg

Notes:
 See sheet 9 of 18 for Detail A and View B-B.
 Approach slab and parapet concrete 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 7 of 18.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 18.
 For additional parapet details, see sheet 7 of 18.



* Tilt #9 b₁(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.



**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	50	#4	30'-6"	U
a ₁ (E)	92	#5	29'-9"	U
a ₂ (E)	48	#6	6'-6"	U
b(E)	48	#4	29'-8"	U
b ₁ (E)	142	#9	29'-9"	U
b ₂ (E)	4	#4	14'-8"	U
b ₃ (E)	4	#4	14'-8"	U
d(E)	68	#5	5'-7"	U
d ₁ (E)	68	#5	7'-11"	U
e(E)	32	#4	14'-8"	U
e ₁ (E)	4	#8	14'-8"	U
t(E)	120	#4	9'-9"	U
w(E)	80	#5	29'-11"	U
Concrete Superstructure			Cu. Yd.	92.2
Concrete Structures			Cu. Yd.	18.7
Reinforcement Bars, Epoxy Coated			Pound	24440

PRINTED DATE: 1/7/2015
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BA-L

12-12-12



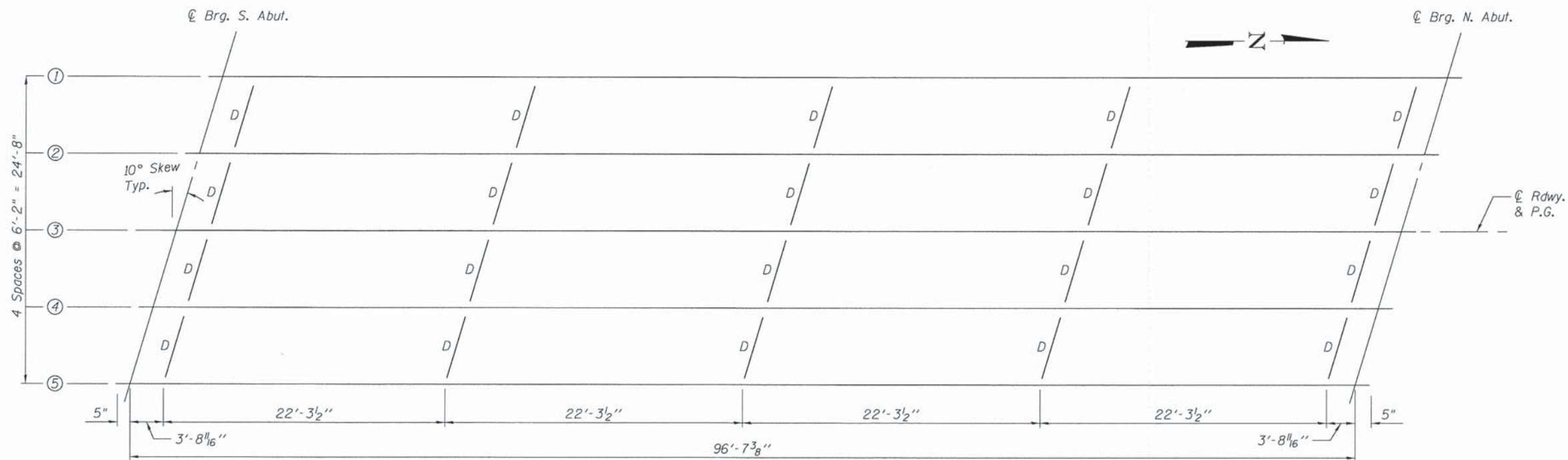
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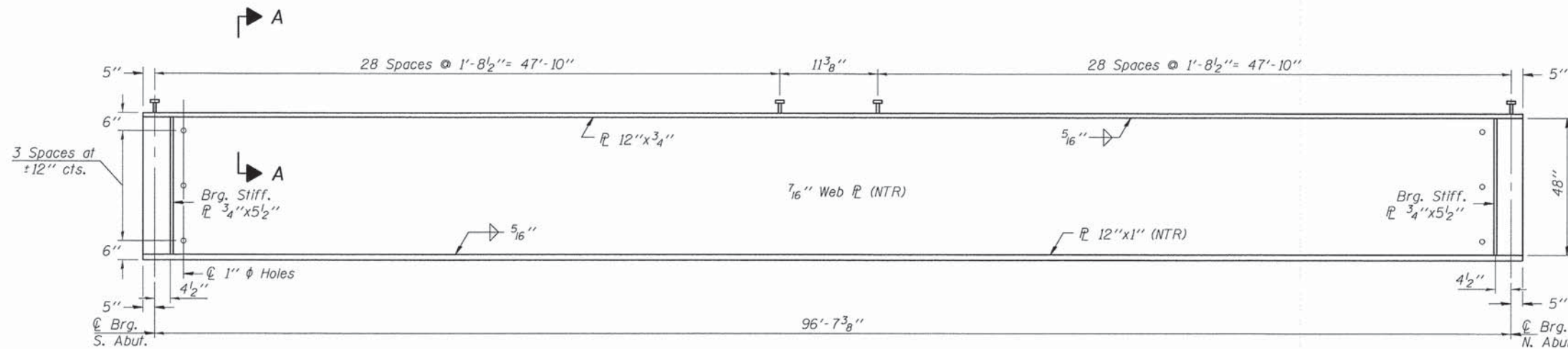
BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 092-6044

SHEET NO 10 OF 18 SHEETS

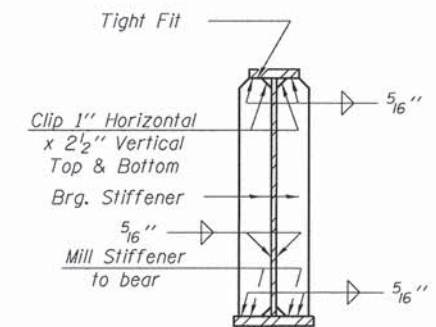
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ILLINOIS FED. AID PROJECT				



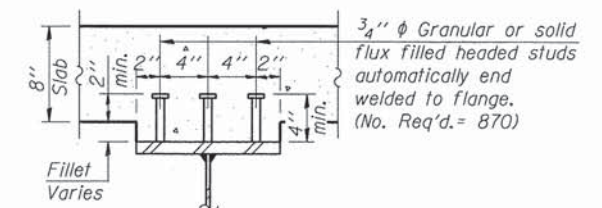
FRAMING PLAN



GIRDER ELEVATION
 "NTR" denotes plates to which notch toughness requirements are applicable.



SECTION AT ABUTMENT



SECTION A-A

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G-1 7-1-10



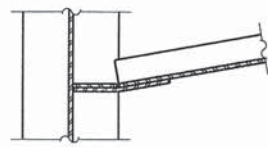
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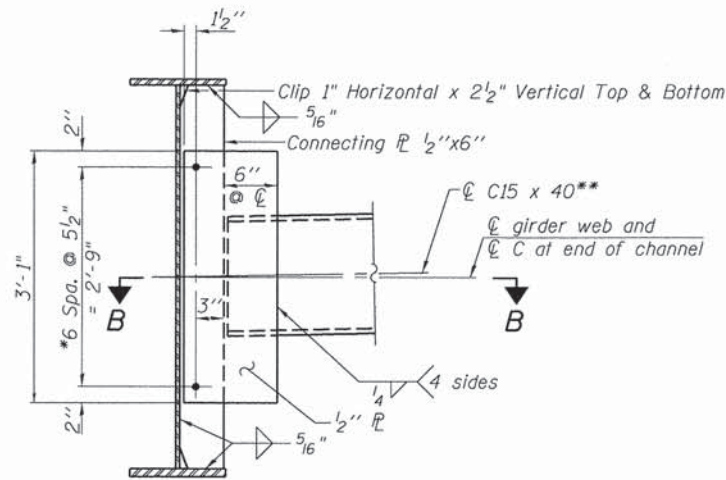
STRUCTURAL STEEL
 STRUCTURE NO. 092-6044

SHEET NO 11 OF 18 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7046	10-00341-00-BR	VERMILION	30	18
CONTRACT NO. 91512				
ILLINOIS FED. AID PROJECT				



SECTION B-B



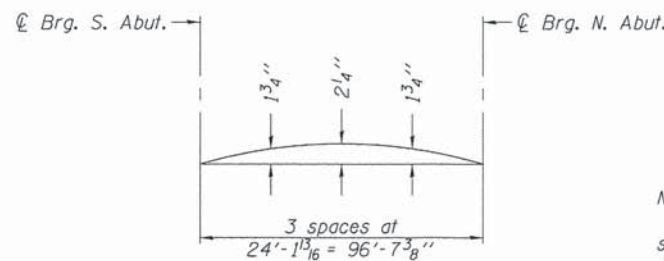
INTERIOR DIAPHRAGM (D)

Note:
 Two hardened washers required for each set of oversized holes.
 *3/4" φ HS bolts, 5/16" φ holes, 1 3/8" vertical slotted holes in bracing and main member connection plates on the south side of Beam 3. Provide 5/16" plate washers for slotted holes. The bolts for the slotted holes shall be finger tightened prior to the deck slab pouring of Stage II Construction and fully tightened after completion of stage II pour. Position slotted holes in connection plates so bolts start at one end with no concrete load and finish near the opposite end under deck load, allowing maximum displacement.
 ** Alternate channels C15x50 are permitted to facilitate material acquisition. Calculated weight of structural steel is based on C15x40 sections. The alternate, if utilized shall be provided at no extra cost to the department.

***TOP OF WEB ELEVATIONS

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5
CL Brg. S. Abut.	552.20	552.29	552.38	552.28	552.17
CL Brg. N. Abut.	552.68	552.77	552.86	552.76	552.66

*** For Fabrication only.



CAMBER DIAGRAM

Note:
 All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

All structural steel shall be AASHTO M 270 Grade 50W.

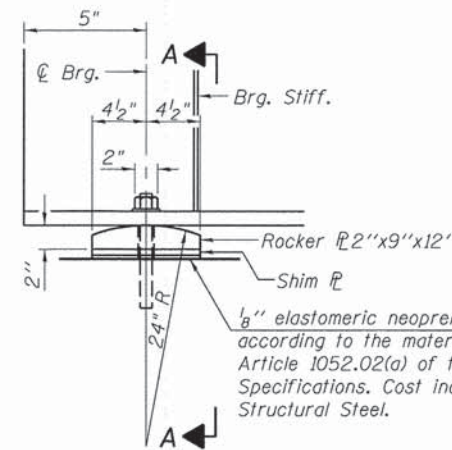
BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	20

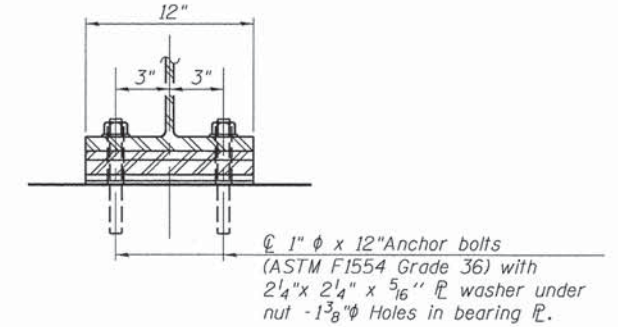
INTERIOR GIRDER MOMENT TABLE		0.5 Sp.
I_s	(in ⁴)	16451
$I_c(n)$	(in ⁴)	40689
$I_c(3n)$	(in ⁴)	29992
S_s	(in ³)	708
$S_c(n)$	(in ³)	972
$S_c(3n)$	(in ³)	890
DC1	(k/')	0.793
M _{DC1}	('k)	925
DC2	(k/')	0.180
M _{DC2}	('k)	210
DW	(k/')	0.280
M _{DW}	('k)	327
$M_L + IM$	('k)	1422
M_u (Strength I)	('k)	4396
$\phi_r M_n$	('k)	5067
f_s DC1	(ksi)	15.7
f_s DC2	(ksi)	2.8
f_s DW	(ksi)	4.4
f_s (L+IM)	(ksi)	17.6
f_s (Service II)	(ksi)	45.8
0.95R _h F _{yf}	(ksi)	47.5
V _r	(k)	35.4

INTERIOR GIRDER REACTION TABLE		Abut.
R _{DC1}	(k)	38.3
R _{DC2}	(k)	8.7
R _{DW}	(k)	13.5
R _{L + IM}	(k)	80.2
R _{Total}	(k)	140.7

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 (in⁴ and in³).
 $I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) due to short-term composite live loads (in⁴ and in³).
 $I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in⁴ and in³).
 DC1: Un-factored non-composite dead load (kips/ft.).
 M_{DC1}: 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_{DC2}: 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_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 $M_L + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
 M_u (Strength I): Factored design moment (kip-ft.).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_L + IM$
 $\phi_r M_n$: 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_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
 M_{DC1} / S_{nc}
 f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 $M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.
 f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
 $M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.
 f_s (L+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).
 $M_L + IM / S_c(n)$ or $M_L + IM / S_c(cr)$ as applicable.
 f_s (Service II): Sum of stresses as computed below (ksi).
 $f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s L + IM$
 0.95R_hF_{yf}: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
 f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
 $1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s L + IM$
 V_r: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.



ELEVATION AT ABUTMENT



SECTION A-A

FIXED BEARING

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 CHECKED - JEH
 DRAWN - JEH
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 PLOT DATE = 1/7/2015

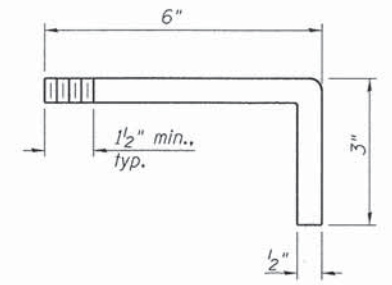
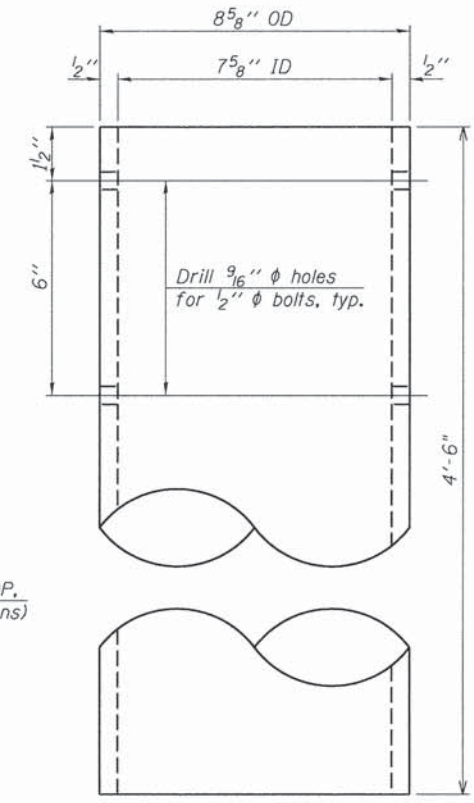
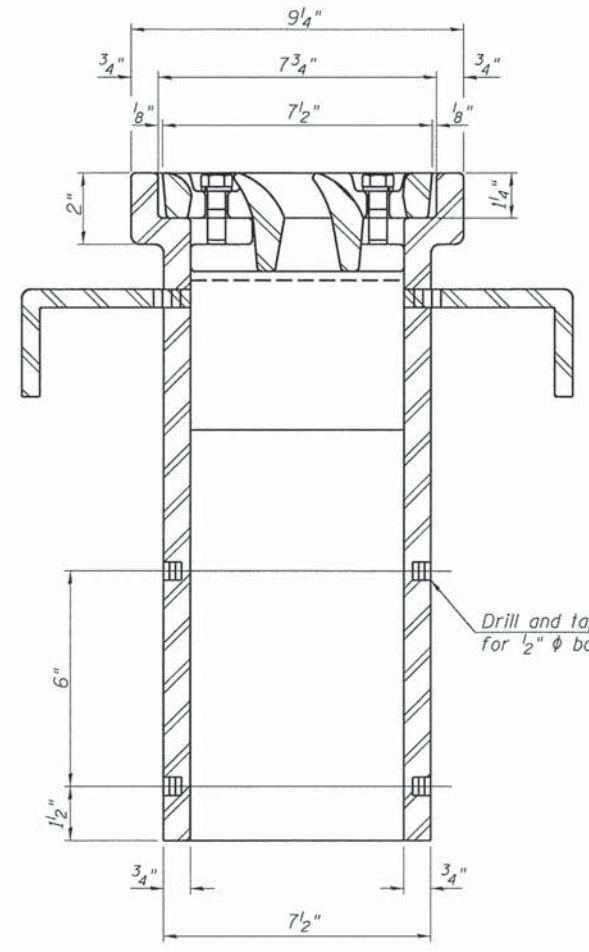
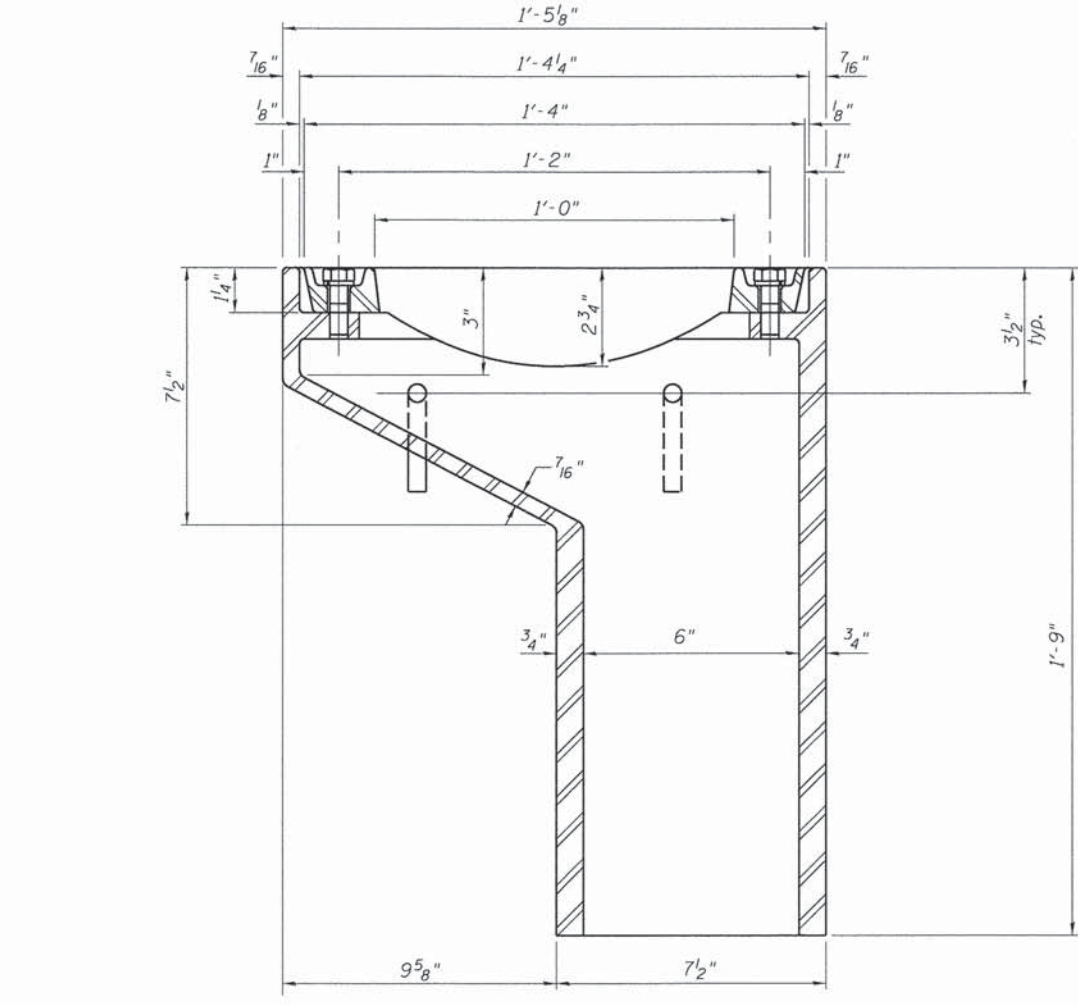
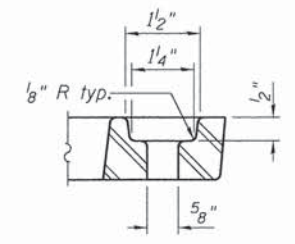
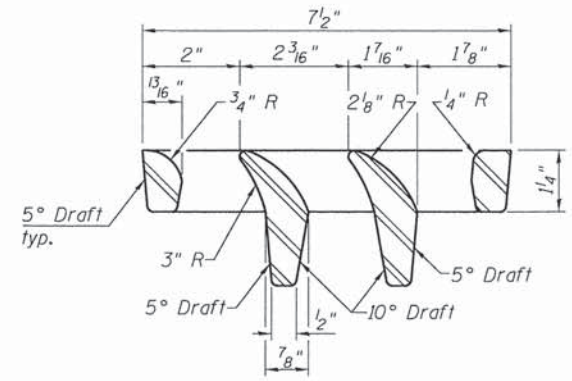
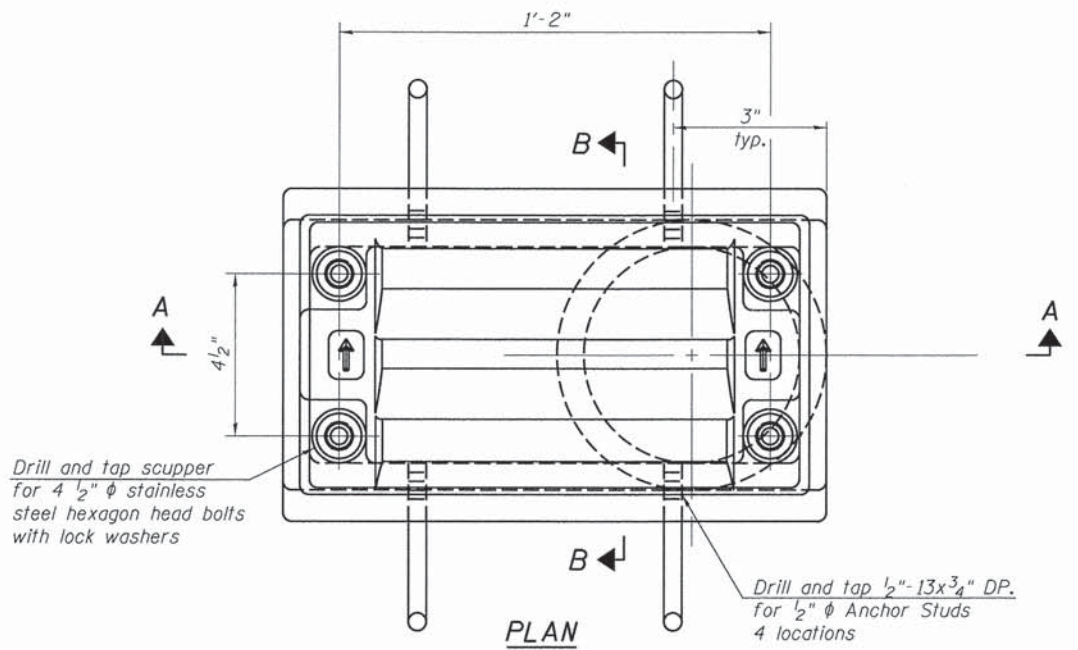
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 CHECKED - JEH
 DRAWN - JEH
 CHECKED - DF/DC
 REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL & BEARING DETAILS
 STRUCTURE NO. 092-6044

SHEET NO 12 OF 18 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7046	10-00341-00-BR	VERMILION	30	19
CONTRACT NO. 91512				
ILLINOIS FED. AID PROJECT				



See sheet of for scupper location relative to parapet.

Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.

As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.

The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.

Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.

ANCHOR STUD DETAIL

DOWNSPOUT

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	4

DS-11

7-1-10



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PLOT DATE = 1/7/2015	DRAWN - JEH	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

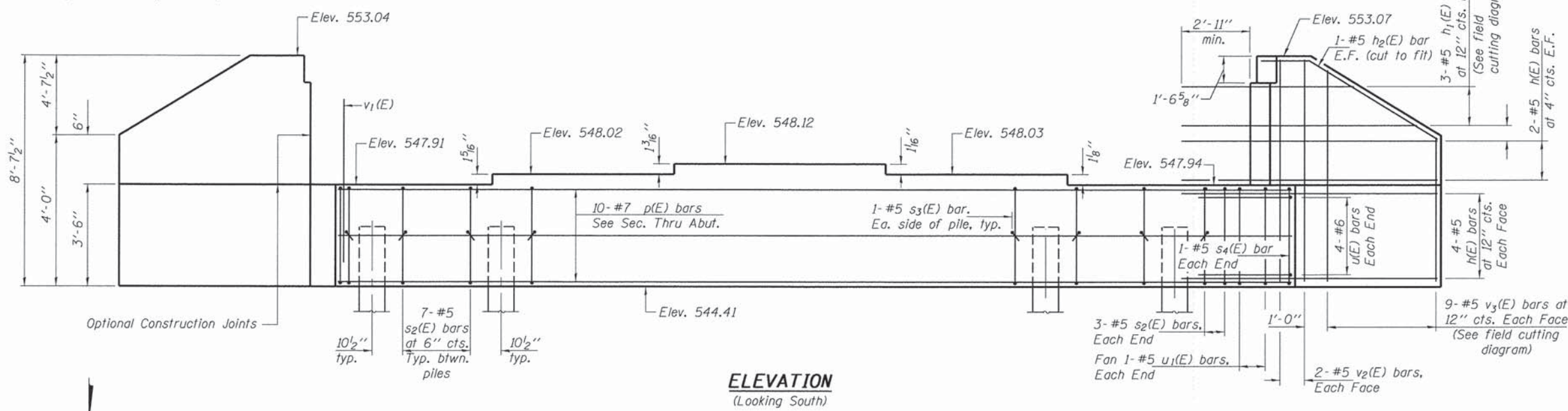
DRAINAGE SCUPPER, DS-11
STRUCTURE NO. 092-6044

SHEET NO 13 OF 18 SHEETS

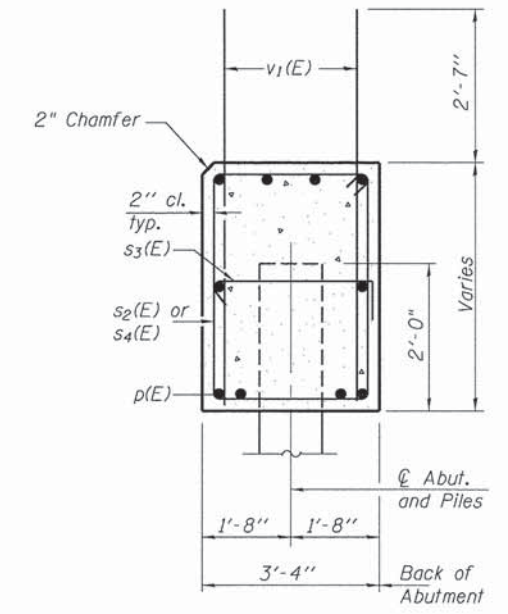
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7046	10-00341-00-BR	VERMILION	30	20
				CONTRACT NO. 91512
ILLINOIS FED. AID PROJECT				

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Notes:
Pour steps monolithically with cap.

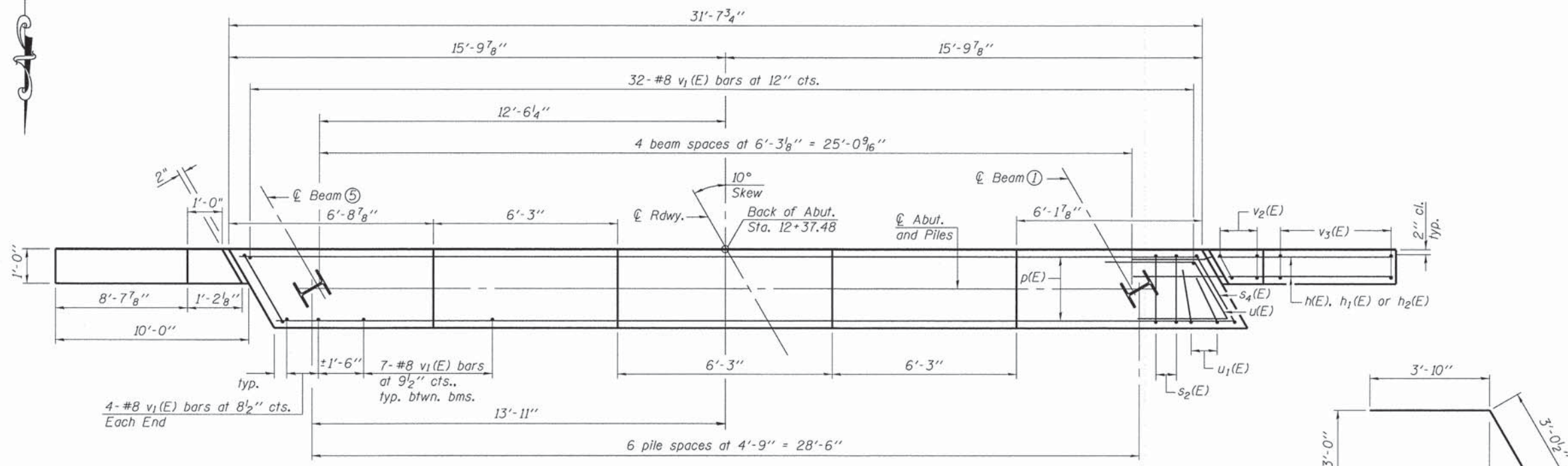


ELEVATION
(Looking South)



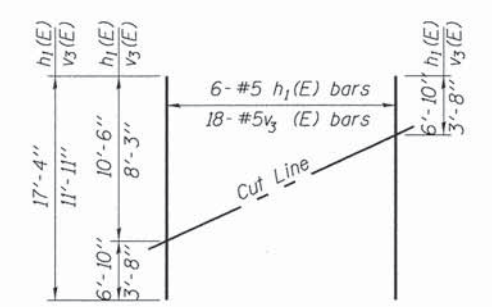
SEC. THRU ABUT.

Dimensions at right angles to abutment.



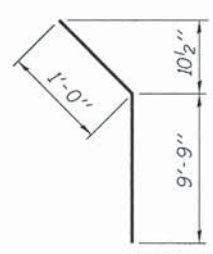
PLAN

PILE DATA
Type: Steel HP 12x53
Nominal Required Bearing: 40k
Factored Resistance Available: 220k
Est. Length: 67'
No. Production Piles: 6
No. Test Piles: 1

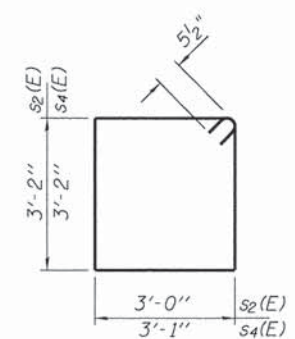


FIELD CUTTING DIAGRAM

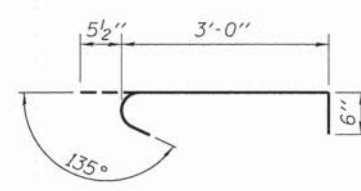
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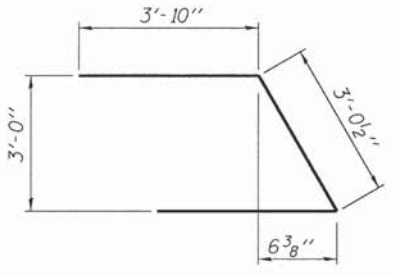
BAR h2(E)



BAR s2(E) & s4(E)



BAR s3(E)



BAR u1(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	24	#5	12'-11"	—
h1(E)	6	#5	17'-4"	—
h2(E)	4	#5	10'-9"	—
p(E)	10	#7	31'-3"	—
s2(E)	48	#5	13'-3"	□
s3(E)	14	#5	4'-0"	□
s4(E)	2	#5	13'-5"	□
u(E)	8	#6	10'-9"	—
u1(E)	2	#5	9'-2"	—
v1(E)	68	#8	5'-11"	—
v2(E)	8	#5	8'-3"	—
v3(E)	18	#5	11'-11"	—
Structure Excavation	Cu. Yd.		144	
Concrete Structures	Cu. Yd.		18.6	
Reinforcement Bars, Epoxy Coated	Pound		3380	
Furnishing Steel Piles HP12X53	Foot		402	
Driving Piles	Foot		402	
Test Piles, Steel HP12X53	Each		1	

For details of piles see sheet 16 of 18.

AI-240-L

8-31-12



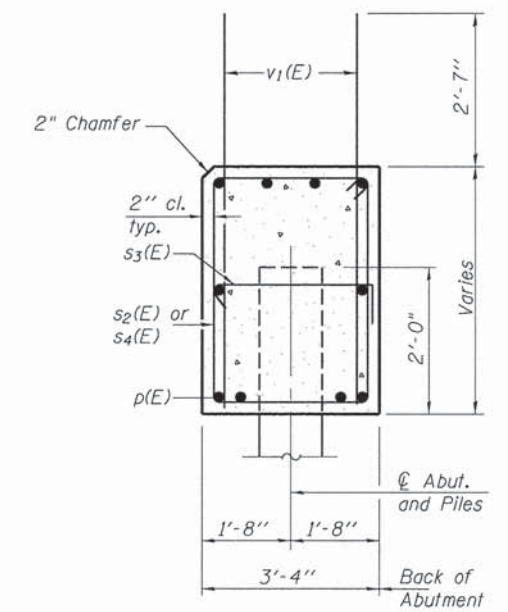
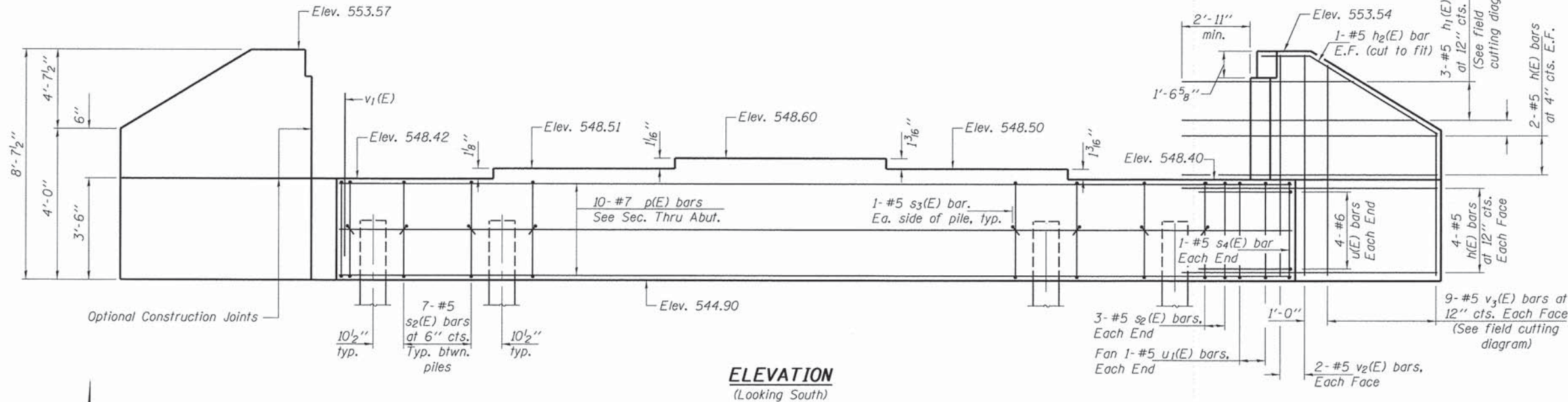
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
STRUCTURE NO. 092-6044
SHEET NO 14 OF 18 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7046	10-00341-00-BR	VERMILION	30	21
				CONTRACT NO. 91512
ILLINOIS FED. AID PROJECT				

Notes:
Pour steps monolithically with cap.



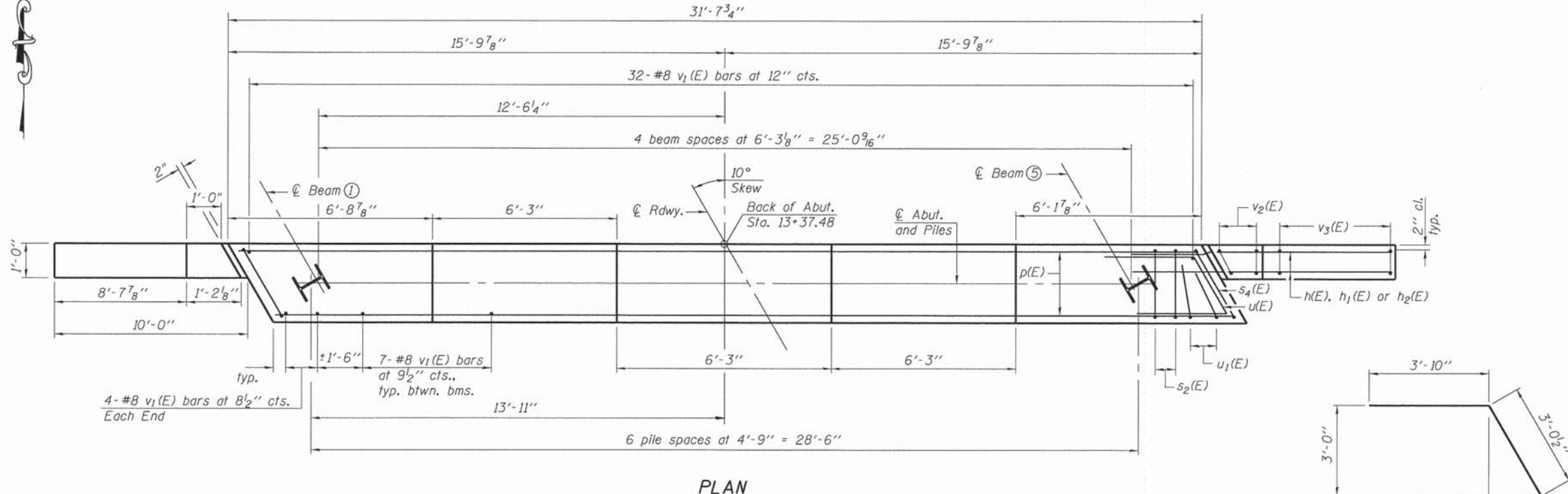
SEC. THRU ABUT.

Dimensions at right angles to abutment.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	24	#5	12'-11"	—
h1(E)	6	#5	17'-4"	—
h2(E)	4	#5	10'-9"	—
p(E)	10	#7	31'-3"	—
s2(E)	48	#5	13'-3"	□
s3(E)	14	#5	4'-0"	□
s4(E)	2	#5	13'-5"	□
u(E)	8	#6	10'-9"	—
u1(E)	2	#5	9'-2"	—
v1(E)	68	#8	5'-11"	—
v2(E)	8	#5	8'-3"	—
v3(E)	18	#5	11'-11"	—
Structure Excavation	Cu. Yd.	144		
Concrete Structures	Cu. Yd.	18.6		
Reinforcement Bars, Epoxy Coated	Pound	3380		
Furnishing Steel Piles HP12X53	Foot	402		
Driving Piles	Foot	402		
Test Piles, Steel HP12X53	Each	1		

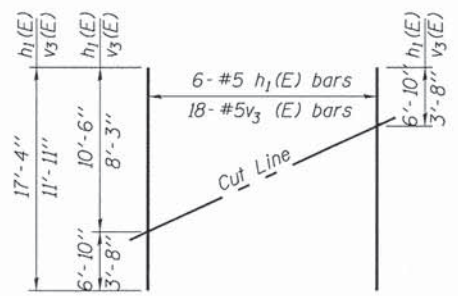
For details of piles see sheet 16 of 18.



PLAN

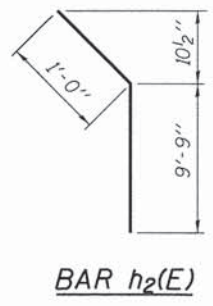
PILE DATA

Type: Steel HP 12x53
Nominal Required Bearing: 401k
Factored Resistance Available: 220k
Est. Length: 67'
No. Production Piles: 6
No. Test Piles: 1

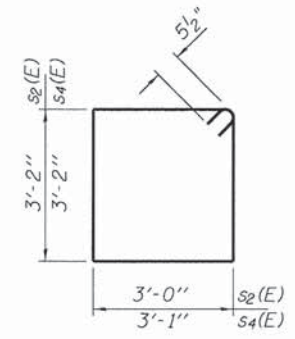


FIELD CUTTING DIAGRAM

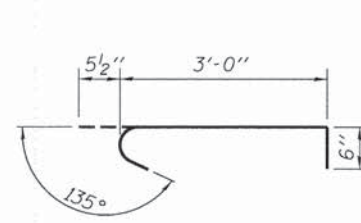
Order h1(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.



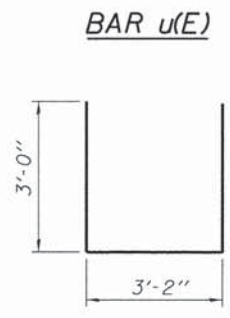
BAR h2(E)



BAR s2(E) & s4(E)



BAR s3(E)



BAR u1(E)

AI-40-L

8-31-12



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PLOT DATE = 1/7/2015	DRAWN - JEH	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
STRUCTURE NO. 092-6044

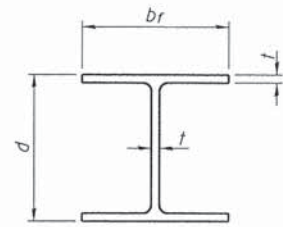
SHEET NO 15 OF 18 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7046	10-00341-00-BR	VERMILION	30	22

CONTRACT NO. 91512

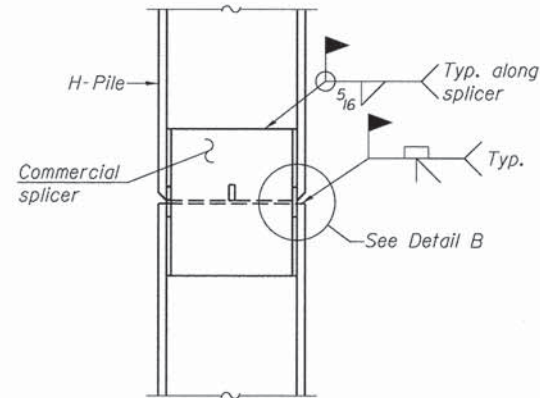
ILLINOIS FED. AID PROJECT

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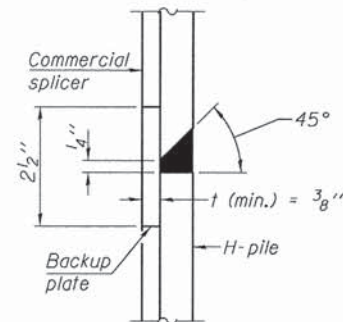


STEEL PILE TABLE

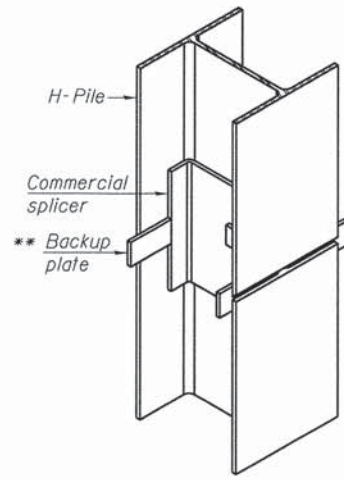
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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



ELEVATION

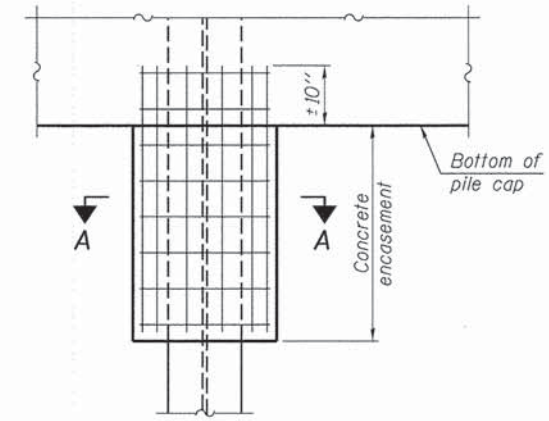


DETAIL "B"



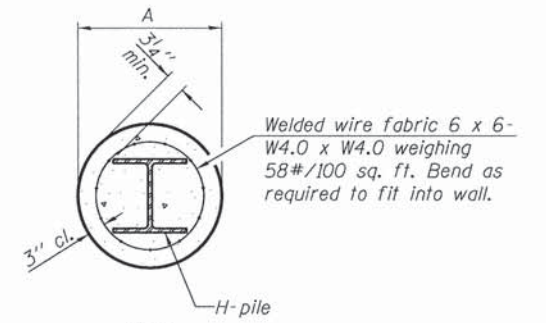
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



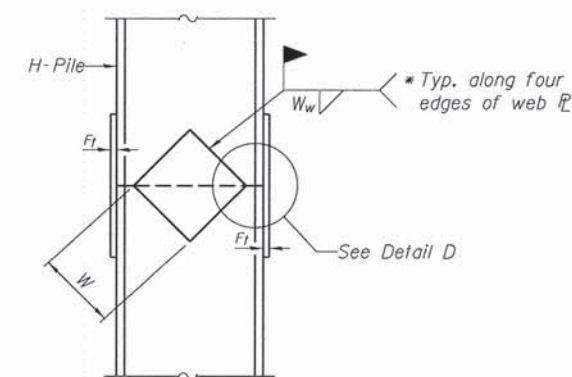
ELEVATION

PILE ENCASEMENT

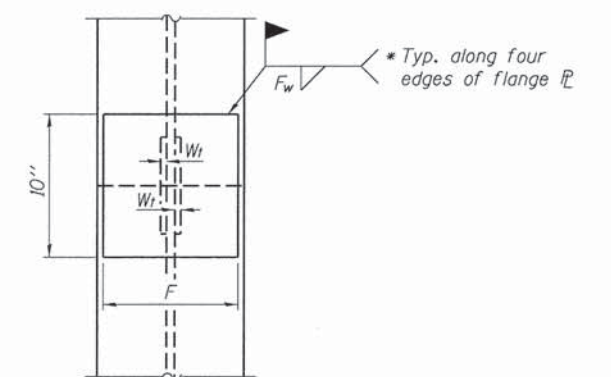


Note:
Forms for encasement may be omitted when soil conditions permit.

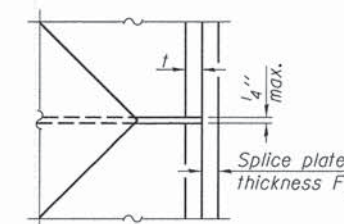
SECTION A-A



ELEVATION



END VIEW

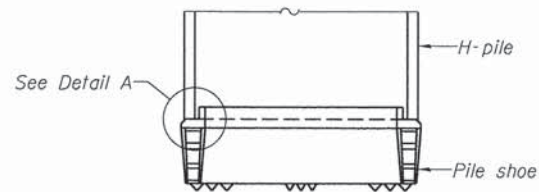


DETAIL D

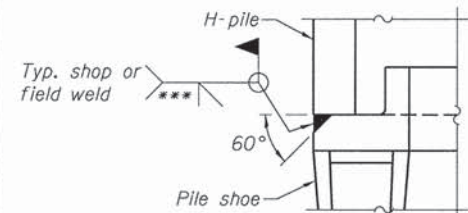
WELDED PLATE FIELD SPLICE

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

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

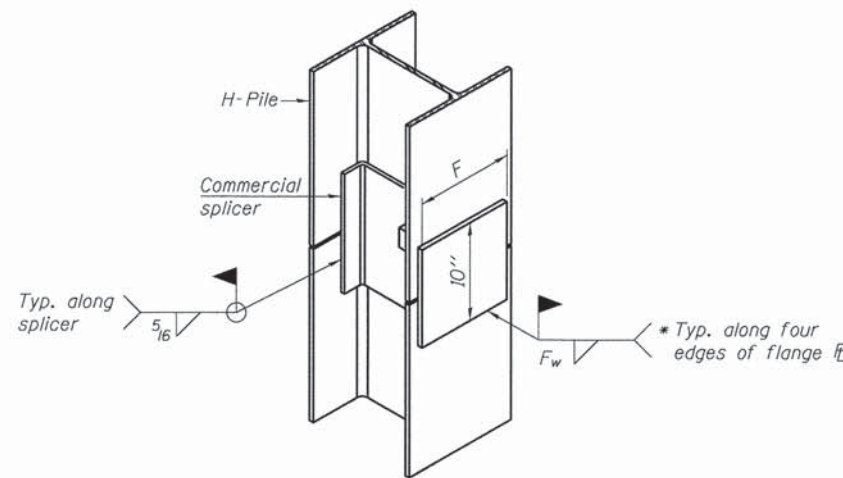


ELEVATION



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.).

PRINTED DATE: 1/7/2015
FILE NAME: N:\Projects\Oswego\City of\12-454 Phase II - South Dr\Trn Street Bridge\CD\Drawings\Sheets\23-Gr-F-Pile-De.dgn

F-HP 1-27-12



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PLOT DATE = 1/7/2015	DRAWN - JEH	REVISED -
	CHECKED - DF/DC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 092-6044

SHEET NO 16 OF 18 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7046	10-00341-00-BR	VERMILION	30	23
				CONTRACT NO. 91512
ILLINOIS FED. AID PROJECT				

HOLCOMB FOUNDATION ENGINEERING INC. P.O. Box 88 618-529-5262 Carbondale, Il. 62903 618-457-8991 fax											
Page 1 of 3											
Bridge Foundation Boring Log											
Project: <u>H-12113</u> Bridge: <u>Griffin Street</u> Date: <u>6/11/2012</u> Section: _____ Station: _____ Structure: _____ Bored by: <u>B. Schwartz</u> County: <u>Vermilion</u> Checked By: <u>T. Holcomb</u>											
Boring No: <u>1</u> Station: _____ Offset: _____		Surface Water Elev. _____ Ground Water Elev. <u>86.1</u> During Drilling Upon Completion <u>97.1</u>		Elevation N Qu tsf w %		Elevation N Qu tsf w %		Elevation N Qu tsf w %		Elevation N Qu tsf w %	
Ground Surface <u>100.1</u> 0 4" Asphalt Surface over 7" C. Stone <u>99.1</u>		sandy clay (continued)									
Brown Clayey SAND w/ gravel (A-2-4)				9 8		15 3.85 12					
96.1 Gray Sandy CLAY w/pebbles (A-6)				5 2.78 13		13 2.28 13					
93.6 Brown Mott. Gray Fine to Medium SAND (A-2-4)				6 7		23 3.38 12					
88.6 Brown Mott. Gray Fine SAND w/ gravel (A-2-4)				9 5		32 ---					
83.1 Gray Sandy CLAY w/sand and pebbles (A-6)				24 3.68 11		40 24 ---					
61.1 Gray Fine to Medium SAND w/gravel (A-2-4)				21 4.28 12		1 0.88 22					
16 3.78 12											
N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30" Qu = Unconfined Compressive Strength in tons/sq.ft. w = Water Content - percentage of oven dry weight-% B = Bulge Failure S = Shear Failure E = Estimated Value P = Penetrometer											

HOLCOMB FOUNDATION ENGINEERING INC. P.O. Box 88 618-529-5262 Carbondale, Il. 62903 618-457-8991 fax											
Page 2 of 3											
Bridge Foundation Boring Log											
Project: <u>H-12113</u> Bridge: <u>Griffin Street</u> Date: <u>6/11/2012</u> Section: _____ Station: _____ Structure: _____ Bored by: <u>B. Schwartz</u> County: <u>Vermilion</u> Checked By: <u>T. Holcomb</u>											
Boring No: <u>1</u> Station: _____ Offset: _____		Surface Water Elev. _____ Ground Water Elev. <u>86.1</u> During Drilling Upon Completion <u>97.1</u>		Elevation N Qu tsf w %		Elevation N Qu tsf w %		Elevation N Qu tsf w %		Elevation N Qu tsf w %	
sand (continued)		silt (continued)									
45.56 ---		31.1				59 --- 18					
Gray Fine to Medium SAND w/gravel (A-2-4)				70 ---		105 --- 20					
46.1 Gray Clayey SILT to SILT (A-4)				55 37 ---		87 --- 24					
36.1 Gray SILT w/sand (A-4)				60 ---		105 ---					
65 ---											
N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30" Qu = Unconfined Compressive Strength in tons/sq.ft. w = Water Content - percentage of oven dry weight-% B = Bulge Failure S = Shear Failure E = Estimated Value P = Penetrometer											

HOLCOMB FOUNDATION ENGINEERING INC. P.O. Box 88 618-529-5262 Carbondale, Il. 62903 618-457-8991 fax											
Page 3 of 3											
Bridge Foundation Boring Log											
Project: <u>H-12113</u> Bridge: <u>Griffin Street</u> Date: <u>6/11/2012</u> Section: _____ Station: _____ Structure: _____ Bored by: <u>B. Schwartz</u> County: <u>Vermilion</u> Checked By: <u>T. Holcomb</u>											
Boring No: <u>1</u> Station: _____ Offset: _____		Surface Water Elev. _____ Ground Water Elev. <u>86.1</u> During Drilling Upon Completion <u>97.1</u>		Elevation N Qu tsf w %		Elevation N Qu tsf w %		Elevation N Qu tsf w %		Elevation N Qu tsf w %	
sand (continued)		10.1 -90.64 --- 13									
End of Boring @ -90.0'											
N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30" Qu = Unconfined Compressive Strength in tons/sq.ft. w = Water Content - percentage of oven dry weight-% B = Bulge Failure S = Shear Failure E = Estimated Value P = Penetrometer											

PRINTED DATE: 1/7/2015
 FILE NAME: N:\Projects\Shawnee, IL\12-454 Phase II - South Griffin Street Bridge\GD\Drawings\Sheets\24 Gr-F Boring.dgn

(Sheet 1 of 2)



USER NAME = Jhickox	DESIGNED - DF	REVISED -
PLOT SCALE = 0.1, 0.000 '1" = 10'	CHECKED -	REVISED -
PLOT DATE = 1/7/2015	DRAWN - JEH	REVISED -
	CHECKED - DF/DC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 092-6044

SHEET NO 17 OF 18 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7046	10-00341-00-BR	VERMILION	30	24
CONTRACT NO. 91512				
ILLINOIS FED. AID PROJECT				

HOLCOMB FOUNDATION ENGINEERING INC. P.O. Box 88 618-529-5262 Carbondale, Il. 62903 618-457-8991 fax Page 1 of 3												
Bridge Foundation Boring Log												
Project: H-12113		Bridge: Griffin Street		Date: 6/12/2012		Section: _____		Station: _____		Bored by: B. Schwartz		
Structure: _____		County: Vermilion		Checked By: T. Holcomb		Surface Water Elev. _____		Ground Water Elev. During Drilling 71.3		Upon Completion _____		
Boring No.	Station	Offset	Elevation	N	Qu	w	%	Elevation	N	Qu	w	%
Ground Surface 100.3 0												
Brown Mott. Gray Fine to Medium SAND w/ gravel (A-2-4)												
			22	---	4			-25	11	2.58	13	
			-5	11	---	6			12	2.08	14	
93.8												
Brown Mott. Gray Fine to Medium SAND w/concrete rubble (A-2-4)												
			15	---	10			-30	13	1.78	15	
91.3												
Gray Mott. Brown Sandy CLAY w/gravel (A-6)												
			-10	9	---	12			29	2.65	12	
			25	---	6			-35	29	2.65	12	
86.3												
Gray Sandy CLAY w/sand & pebbles (fill) (A-6)												
			-15	9	2.18	13			40	56	---	11
61.3												
Gray Fine to Medium SAND w/gravel (A-2-4)												
			11	2.48	13			-40	56	---	11	
			-20	11	2.38	13						
			10	2.39	13							

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
 Qu - Unconfined Compressive Strength in tons/sq.ft.
 w - Water Content - percentage of oven dry weight-%
 B = Bulge Failure
 S = Shear Failure
 E = Estimated Value
 P = Penetrometer

HOLCOMB FOUNDATION ENGINEERING INC. P.O. Box 88 618-529-5262 Carbondale, Il. 62903 618-457-8991 fax Page 2 of 3												
Bridge Foundation Boring Log												
Project: H-12113		Bridge: Griffin Street		Date: 6/12/2012		Section: _____		Station: _____		Bored by: B. Schwartz		
Structure: _____		County: Vermilion		Checked By: T. Holcomb		Surface Water Elev. _____		Ground Water Elev. During Drilling 71.3		Upon Completion _____		
Boring No.	Station	Offset	Elevation	N	Qu	w	%	Elevation	N	Qu	w	%
sand (continued)												
			45	35	---	---						
31.3												
Gray Fine to Medium SAND w/gravel (A-2-4)												
			-70	49	---	15						
			-50	58	---	10						
46.3												
Gray SILT w/sand (A-4)												
			-55	45	0.85	21						
41.3												
Gray SILT (A-4)												
			-60	40	2.35	23						
36.3												
Gray Fine to Medium SAND (A-2-4)												
			-65	23	---	18						

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
 Qu - Unconfined Compressive Strength in tons/sq.ft.
 w - Water Content - percentage of oven dry weight-%
 B = Bulge Failure
 S = Shear Failure
 E = Estimated Value
 P = Penetrometer

HOLCOMB FOUNDATION ENGINEERING INC. P.O. Box 88 618-529-5262 Carbondale, Il. 62903 618-457-8991 fax Page 3 of 3												
Bridge Foundation Boring Log												
Project: H-12113		Bridge: Griffin Street		Date: 6/12/2012		Section: _____		Station: _____		Bored by: B. Schwartz		
Structure: _____		County: Vermilion		Checked By: T. Holcomb		Surface Water Elev. _____		Ground Water Elev. During Drilling 71.3		Upon Completion _____		
Boring No.	Station	Offset	Elevation	N	Qu	w	%	Elevation	N	Qu	w	%
sand (continued)												
			-90	48	---	16						
0.3												
End of Boring @ -100.0'												
			-100	67	---	9						
			-115									
			-120									
			-125									
			-130									
			-110									

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
 Qu - Unconfined Compressive Strength in tons/sq.ft.
 w - Water Content - percentage of oven dry weight-%
 B = Bulge Failure
 S = Shear Failure
 E = Estimated Value
 P = Penetrometer

PRINTED DATE: 1/7/2015
 FILE NAME: N:\Projects\Griffin Street Bridge\ADD\Drawings\Sheets\25.Drf. BoringLog



USER NAME = Jhickox	DESIGNED - DF	REVISED -
CHECKED -	REVISED -	
PLOT SCALE = 0:1.0000' = 1/4"	DRAWN - JEH	REVISED -
PLOT DATE = 1/7/2015	CHECKED - DF/DC	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS
 STRUCTURE NO. 092-6044

(Sheet 2 of 2)

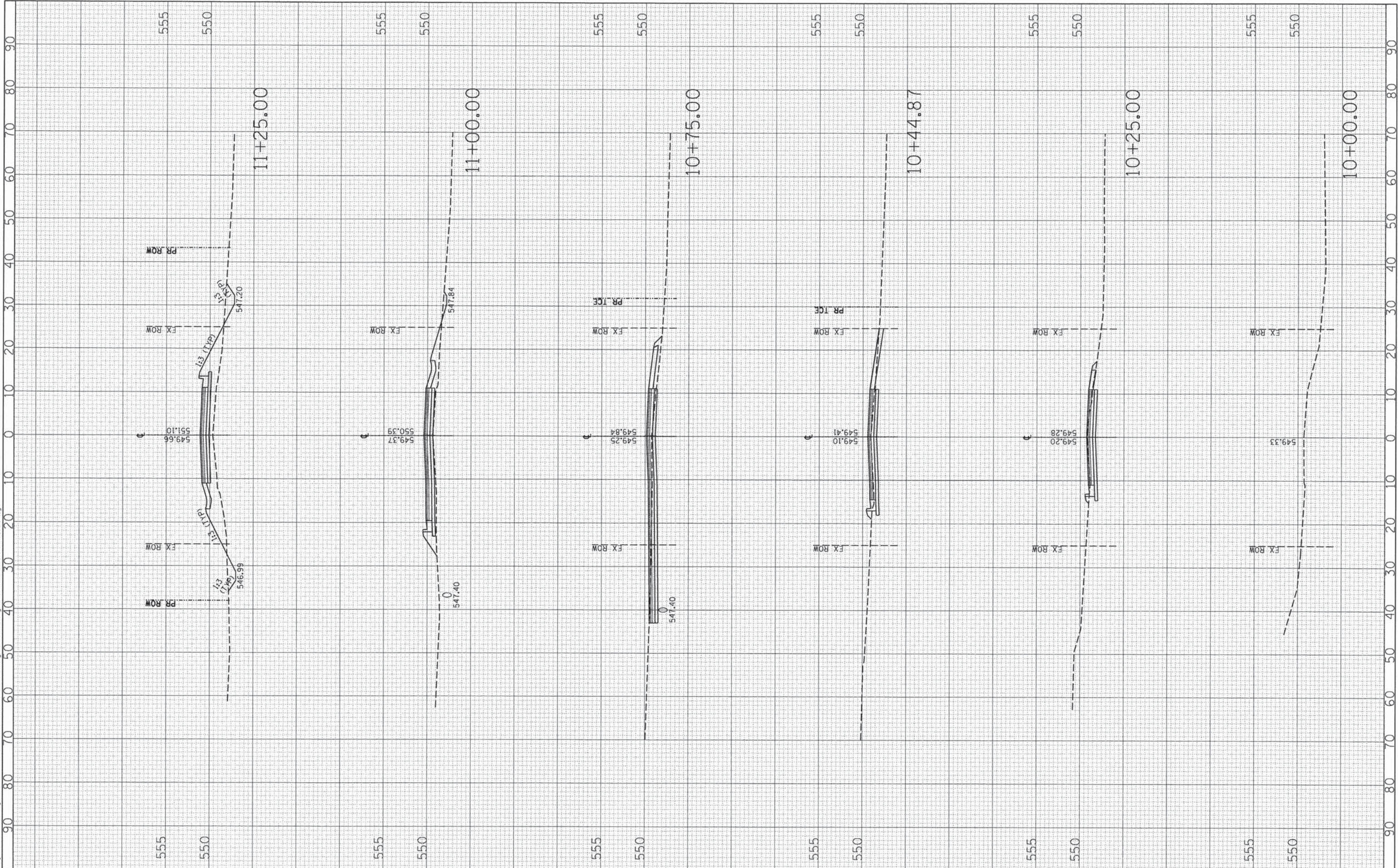
SHEET NO 18 OF 18 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7046	10-00341-00-BR	VERMILION	30	25
CONTRACT NO. 91512				
ILLINOIS FED. AID PROJECT				

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

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

PRINTED DATE: 1/7/2015
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PLOT SCALE = 10.0000' / in.	DRAWN - JEH	REVISED -
PLOT DATE = 1/7/2015	CHECKED - DF/DC	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS-SECTIONS

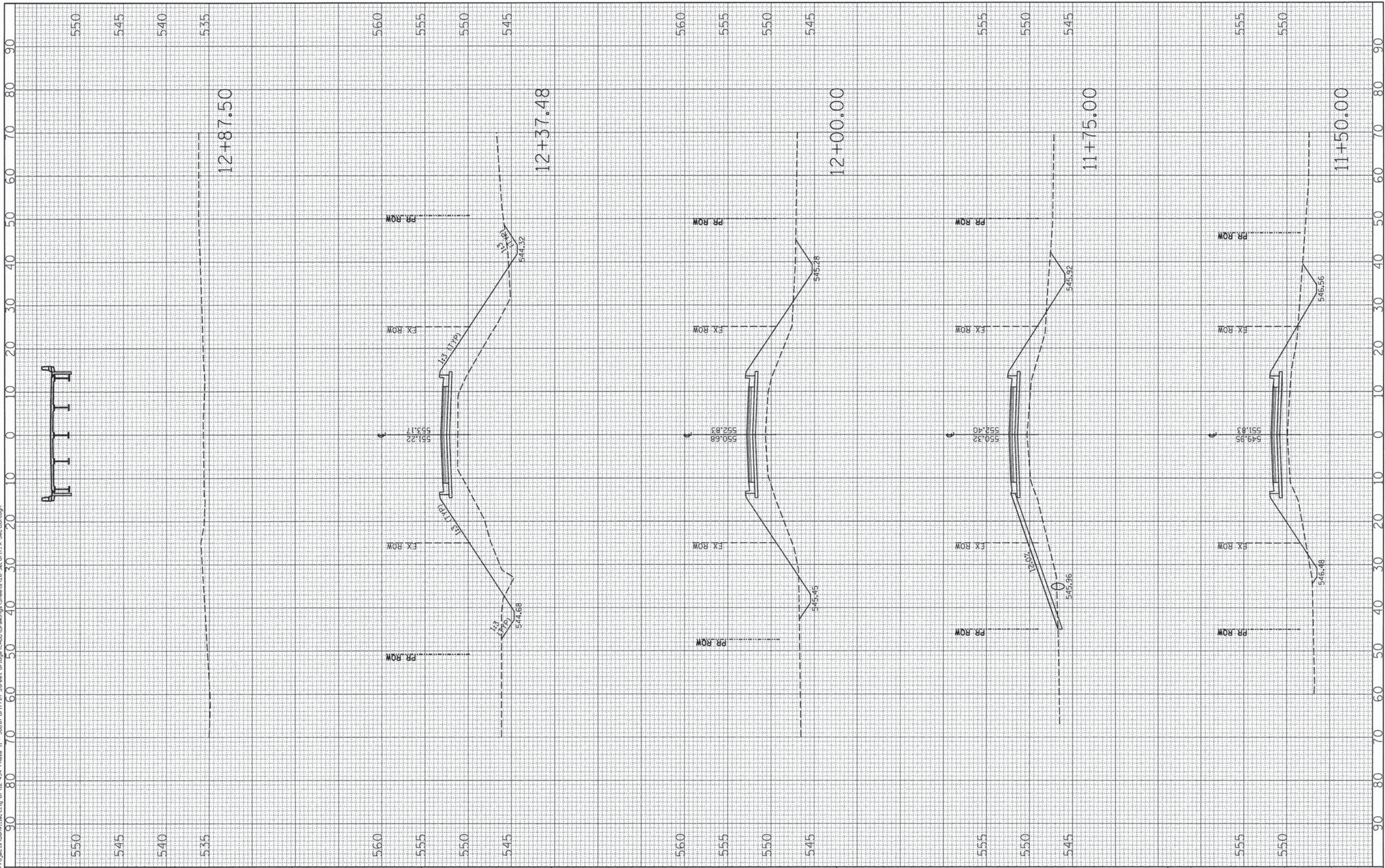
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F.A.U. RTE 7046	SECTION 10-000341-00-BR	COUNTY VERMILION	TOTAL SHEETS 30	SHEET NO 26
CONTRACT NO 91512				
ILLINOIS FEDERAL AID PROJECT				

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

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

PRINTED DATE: 2/10/2015
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USER NAME = Jhickox
 PLT SCALE = 10.0000' / in.
 PLT DATE = 2/10/2015

DESIGNED - JEH
 DRAWN - JEH
 CHECKED - DLC
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

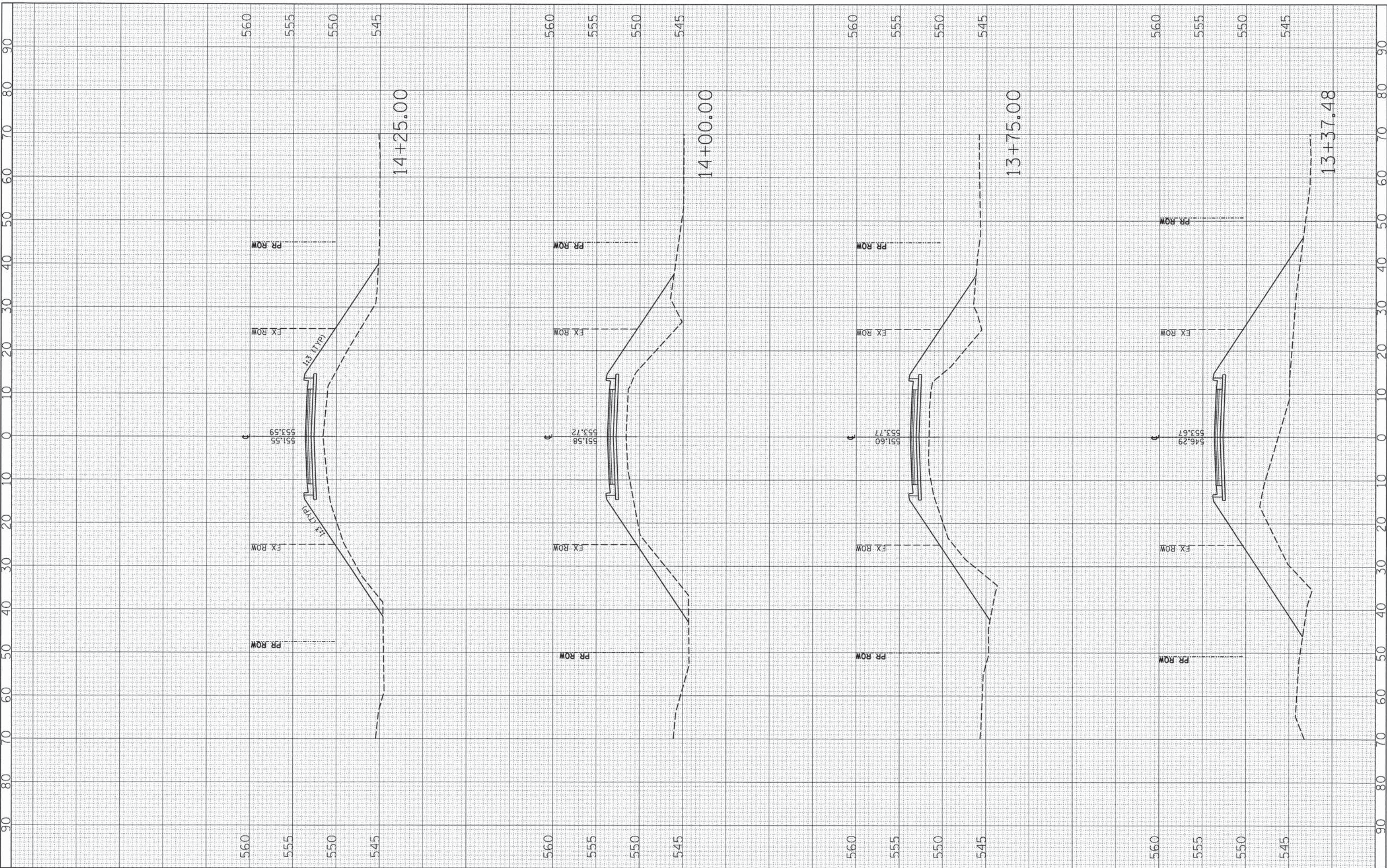
CROSS-SECTIONS
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F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
7046	10-000341-00-BR	VERMILION	30	27
CONTRACT NO 91512				
ILLINOIS FEDERAL AID PROJECT				

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

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

PRINTED DATE: 1/7/2015
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USER NAME = jhickox	DESIGNED - JEH	REVISED -
	DRAWN - JEH	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - DF/DC	REVISED -
PLOT DATE = 1/7/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS-SECTIONS

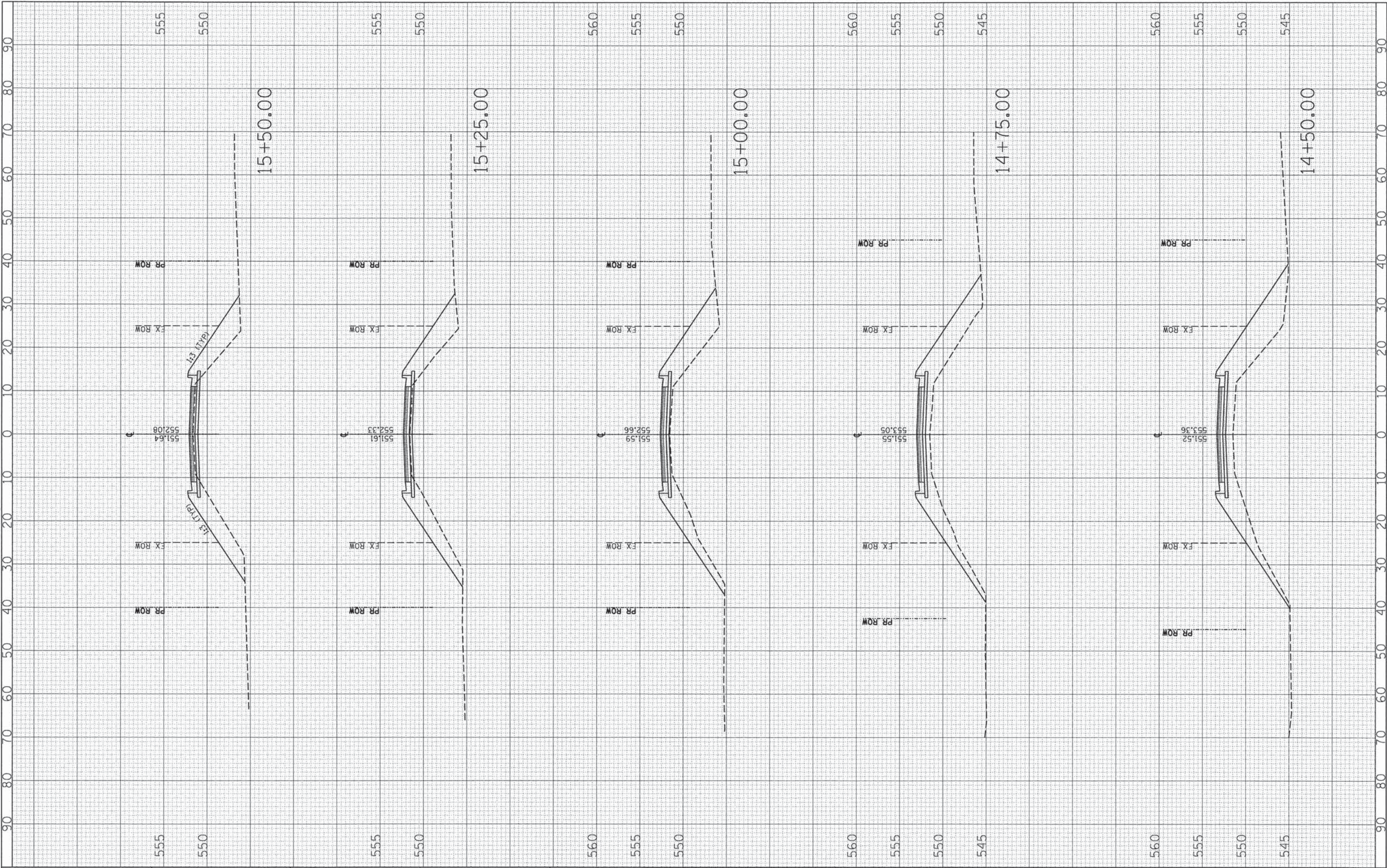
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F.A.U. RTE 7046	SECTION 10-000341-00-BR	COUNTY VERMILION	TOTAL SHEETS 30	SHEET NO 28
CONTRACT NO 91512				ILLINOIS FEDERAL AID PROJECT

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

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

PRINTED DATE: 1/7/2015
 FILE NAME: N:\Projects\Oswego, City of\12-484 Phase II - South Driftin Street Bridge\GD00\Drawings\Sheets\26-30, G-r-f-X-Section.dgn



USER NAME = Jhickox
 PLOT SCALE = 18.0000' / in.
 PLOT DATE = 1/7/2015

DESIGNED - JEH
 DRAWN - JEH
 CHECKED - DF/DC
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS

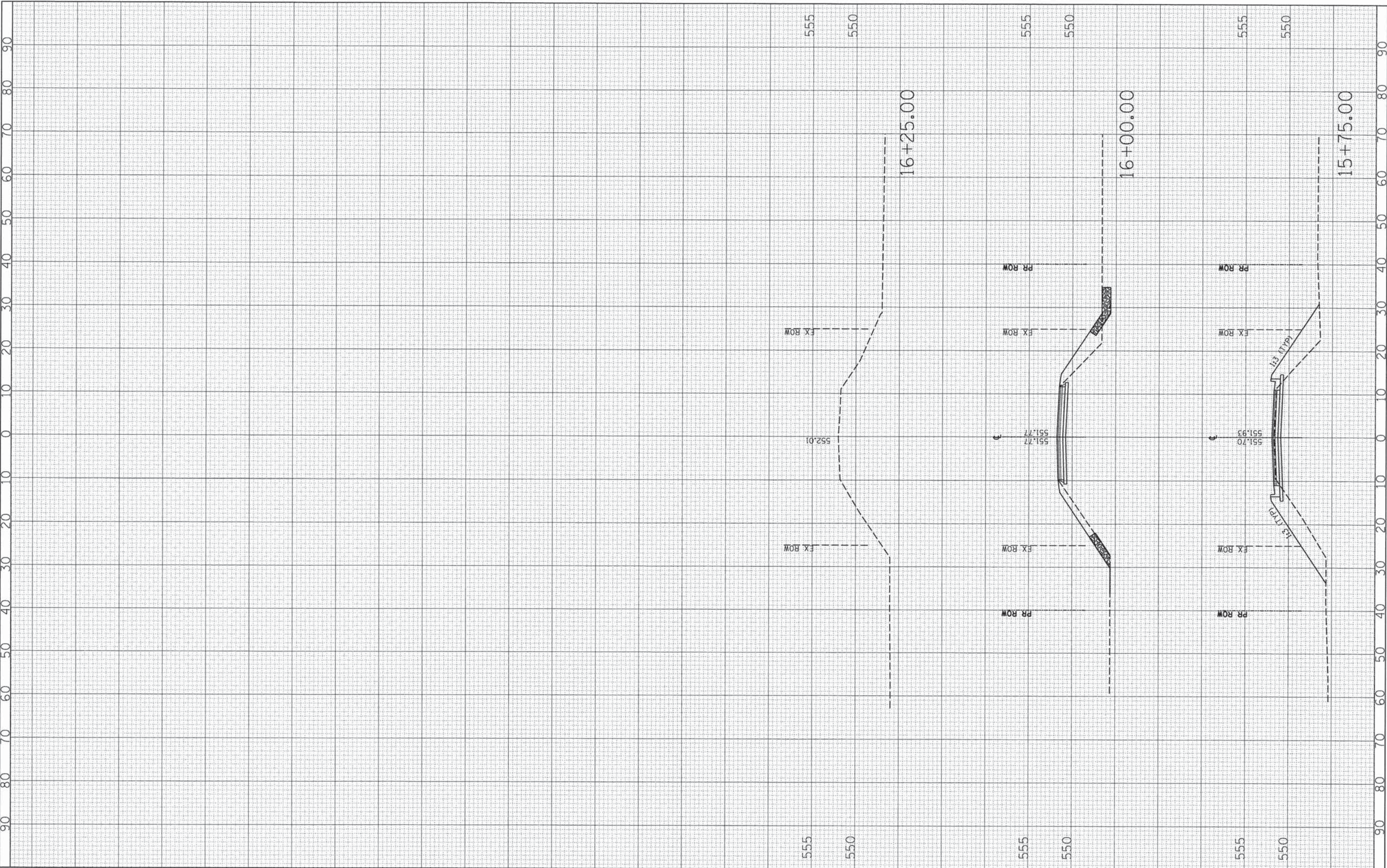
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F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
7046	10-000341-00-BR	VERMILION	30	29
				CONTRACT NO 91512
ILLINOIS FEDERAL AID PROJECT				

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

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

PRINTED DATE: 1/7/2015
 FILE NAME: N:\Projects\Urberville, City of\12-454 Phase II - South Priffin Street Bridge\CADD\Drawings\Sheets\26-38_Cr1f_X-Section.dgn



USER NAME = Jhtakax	DESIGNED - JEH	REVISED -
PLOT SCALE = 10,0000' / in.	DRAWN - JEH	REVISED -
PLOT DATE = 1/7/2015	CHECKED - DF/DC	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS-SECTIONS

SCALE: 1"=10' 1"V=5' SHEET NO 5 OF 5 SHEETS STA 15+75.00 TO STA 16+25.00

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
7046	10-000341-00-BR	VERMILION	30	30
CONTRACT NO 91512				
ILLINOIS FEDERAL AID PROJECT				