

INDEX OF SHEETS

1. TITLE SHEET
2. GENERAL NOTES AND UTILITY CONTACTS
3. SUMMARY OF QUANTITIES
4. SCHEDULES OF QUANTITIES
5. TYPICAL SECTIONS
6. ALIGNMENTS, TIES AND BENCHMARKS
7. REMOVAL PLANS
8. PLAN AND PROFILE
9. MULTI-USE PATH PLAN AND SECTION
10. MISCELLANEOUS ROADWAY DETAILS
- 11 - 13. EROSION CONTROL PLAN
- 14 - 15. DETOUR ROUTE AND ROAD CLOSURE
- 16 - 62. BRIDGE PLANS (INCLUDING BORING LOGS AND EXISTING DRAWINGS)
- 63 - 66. CROSS SECTIONS

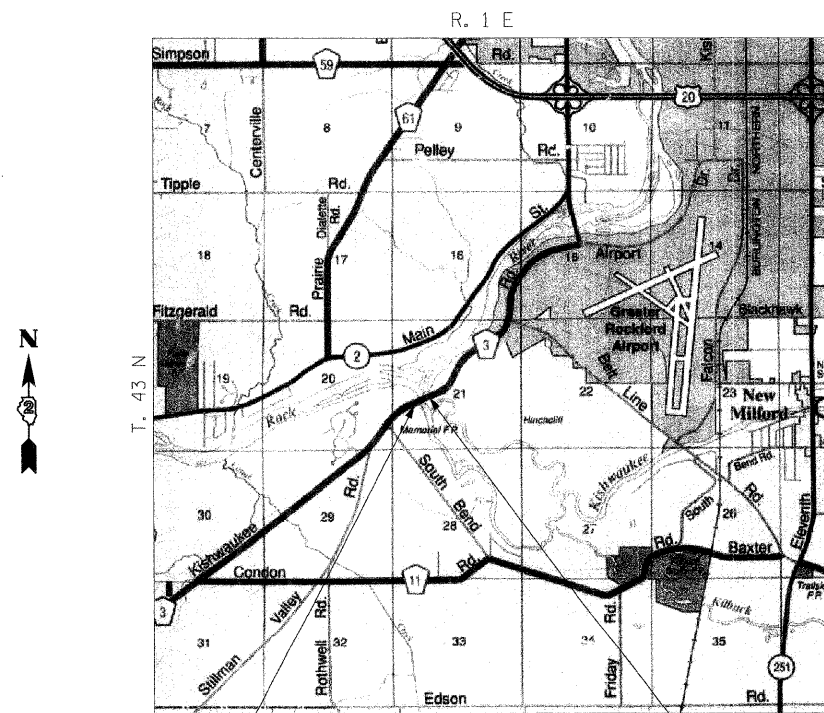
LIST OF STANDARDS

- | | |
|-----------|---|
| 280001-05 | TEMPORARY EROSION CONTROL SYSTEMS |
| 420401-08 | BRIDGE APPROACH PAVEMENT CONNECTOR |
| 515001-03 | NAME PLATE FOR BRIDGES |
| 542401-01 | METAL END SECTIONS FOR PIPE CULVERTS |
| 601101-01 | CONCRETE HEADWALL FOR PIPE DRAIN |
| 606001-04 | CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER |
| 609006-05 | BRIDGE APPROACH PAVEMENT (DRAIN DETAIL) |
| 610001-05 | SHOULDER INLET WITH CURB |
| 630001-09 | STEEL PLATE BEAM GUARDRAIL |
| 631026-05 | TRAFFIC BARRIER TERMINAL TYPE 5 |
| 631031-09 | TRAFFIC BARRIER TERMINAL TYPE 6 |
| 635006-03 | REFLECTOR AND TERMINAL MARKER PLACEMENT |
| 635011-02 | REFLECTOR MARKER AND MOUNTING DETAILS |
| 664001-02 | CHAIN LINK FENCE |
| 701006-03 | OFF-RD OPERATIONS, 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE |
| 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 |
| 701901-01 | TRAFFIC CONTROL DEVICES |
| 720001-01 | SIGN PANEL MOUNTING DETAILS |
| 720006-02 | SIGN PANEL ERECTION DETAILS |
| 720011-01 | METAL POSTS FOR SIGN, MARKERS & DELINEATORS |
| 728001-01 | TELESCOPING STEEL SIGN SUPPORTS |
| 729001-01 | APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS AND MARKERS) |
| 731001-01 | BASE FOR TELESCOPING STEEL SIGN SUPPORT |
| 780001-02 | TYPICAL PAVEMENT MARKINGS |
| BLR 21-8 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS |
| BLR 22-6 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (2L, 2W, ROAD CLOSED TO THRU TRAFFIC) |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PLANS FOR PROPOSED MAJOR BRIDGE PROGRAM F.A.U. ROUTE 5103 (KISHWAUKEE ROAD) OVER KISHWAUKEE RIVER

SECTION 03-00337-00-BR
WINNEBAGO COUNTY
PROJECT BRM-5099(080)
JOB NUMBER C-92-096-09
CONTRACT NO. 85523



IMPROVEMENT ENDS
STATION 93+85

IMPROVEMENT BEGINS
STATION 83+50

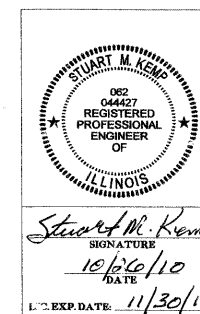
LOCATION PLAN

0 1/8 MI 1/4 MI

SCALE OF LAYOUT
NET LENGTH = 1035 FEET (0.20 MI)

TRAFFIC DATA
HIGHWAY CLASSIFICATION: MINOR ARTERIAL (URBAN)
2010 ADT: 6,400
2030 ADT: 8,600
5% TRUCKS
DESIGN SPEED: 55 MPH
POSTED SPEED: 55 MPH

PROPOSED IMPROVEMENTS
REMOVAL AND REPLACEMENT OF THE EXISTING BRIDGE CARRYING F.A.U. ROUTE 5103 (KISHWAUKEE ROAD) OVER KISHWAUKEE RIVER AT STATION 88+44. NEW BRIDGE CONSISTS OF A THREE-SPAN COMPOSITE CONTINUOUS WELDED STEEL PLATE GIRDER SUPERSTRUCTURE SUPPORTED ON PILE BENT ABUTMENTS AND CONCRETE WALL PIERS. EXISTING STRUCTURE NUMBER 101-3018. PROPOSED STRUCTURE NUMBER 101-3100.



03R1807
DATE
10/26/10

© Copyright Hanson Professional Services Inc. 2009
HANSON

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	1
CONTRACT NO. 85523				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				



LOCATION OF SECTION INDICATED THUS: - ■ -

APPROVED

COUNTY ENGINEER

PASSED

DISTRICT ENGINEER OF LOCAL ROADS & STREET*

RELEASING FOR
BID BASED ON
LIMITED REVIEW

DEPUTY DIRECTOR OF HIGHWAYS REGION 2 ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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



UTILITY NOTE

THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED AMONG THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS, ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



© Copyright Hanson Professional Services Inc. 2010

GENERAL NOTES

1. WHERE SECTION, SUBSECTION, SUBDIVISION, OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS UNTIL AN OWNER OR AUTHORIZED SURVEYOR HAS WITNESSED OR REFERENCED THEIR LOCATION.
2. CONTRACTORS BIDDING THIS PROJECT SHALL VISIT THE SITE BEFORE BIDDING.
3. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY IMMEDIATELY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.
5. ALL SECTIONS, DETAILS, AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE, UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.
7. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL BE REQUIRED AS DIRECTED BY THE ENGINEER TO RELOCATE OR TO REMOVE AND REINSTALL ALL ROAD SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND TO TEMPORARILY RESET ALL SUCH SIGNS DURING CONSTRUCTION. ALL WORK INVOLVING SIGNS SHALL BE GOVERNED BY THE FOLLOWING REQUIREMENTS:

A. SIGNS SHALL NOT BE MOVED UNTIL PROGRESS OF WORK DEMANDS.

B. EVERY SIGN REMOVED MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMAN LIKE MANNER AND BE VISIBLE TO ALL TRAFFIC. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND NEAT FOR THE DURATION OF THE TEMPORARY SETTING.
8. ALL ELEVATIONS, STATIONS, AND OFFSETS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
9. ALL PAVEMENT, CURB, SIDEWALK AND DRIVEWAYS TO BE ADJUSTED SHALL BE SAW CUT FULL DEPTH AT THE LIMITS OF THE ADJUSTMENT AND TRANSITION. PAYMENT FOR THE SAW CUT SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

UTILITY CONTACTS

UTILITY NAME	TYPE	PHONE NUMBER
COMMONWEALTH EDISON CO. 123 ENERGY AVENUE ROCKFORD, ILLINOIS 61109	ELECTRICAL	(815) 490-2320
COMCAST COMMUNICATIONS 4450 KISHWAUKEE STREET ROCKFORD, ILLINOIS 61109	CABLE TV	(815) 395-8977
AT&T LONG DISTANCE NETWORK SERVICES 866 ROCK CREEK ROAD PLANO, ILLINOIS 60545	COMMUNICATIONS	(847) 420-9115
SBC 2404 8TH AVENUE ROCKFORD, ILLINOIS 61108	COMMUNICATIONS	(815) 394-7276
NICOR GAS 4651 LINDEN ROAD ROCKFORD, ILLINOIS 61109	GAS	(815) 965-5416

LEGEND

Power Pole		Right of Way Line	
GuyWire or Deadman Anchor		Proposed Right of Way Line	
Power Pole with Light		Temporary Easement	
PROPOSED LIGHT POLE		Section/Grant Line	
Telephone Splice Box Above Ground		Sold Property/Lot Line	
Controller		Railroad	
Handhole		Edge of Pavement	
Traffic Signal		Edge of Sidewalk	
Traffic Mast Arm			
Deciduous Tree		Stream or Drainage Ditch	
Evergreen Tree		Fence	
Tree Removal		Cable TV	
Stump		Aerial Power Line	
Manhole		Gas Pipe	
Inlet		Guardrail	
Fire Hydrant		Sanitary Sewer	
Light Pole		Storm Sewer	
Culvert End Section		Telephone Cable	
Water Meter Valve Box		Water Pipe	
Valve Vault		Commercial Building	
Test Well			
Mailbox			
Advertising Sign			
ROW Marker			
Flag Pole			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
KISHWAUKEE RIVER BRIDGE
WINNEBAGO COUNTY, ILLINOIS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	WINNEBAGO	66	2
CONTRACT NO. 85523				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

LAYOUT	DRAWN	REVIEWED



© Copyright Hanson Professional Services Inc. 2010

SUMMARY OF QUANTITIES

CODE #	ITEM	UNIT	TOTAL QUANTITY	
			CODE 0011	CODE 0042
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNITS	59.5	
20200100	EARTH EXCAVATION	CU YD	1160	
20800150	TRENCH BACKFILL	CU YD	15	
21101615	TOPSOIL, FURNISH AND PLACE, 4"	SQ YD	1260	
25000210	SEEDING, CLASS 2A	ACRE	0.27	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	24	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	24	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	24	
25100630	EROSION CONTROL BLANKET	SQ YD	1307	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	54	
28000305	TEMPORARY DITCH CHECKS	FOOT	150	
28000400	PERIMETER EROSION BARRIER	FOOT	970	
28100107	STONE RIPRAP, CLASS A4	SQ YD	230	
28100109	STONE RIPRAP, CLASS A5	SQ YD	90	
28200200	FILTER FABRIC	SQ YD	320	
31101810	SUB-BASE GRANULAR MATERIAL, TYPE B 12"	SQ YD	1489	
35100400	AGGREGATE BASE COURSE, TYPE A 5"	SQ YD	342	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	993	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	28.8	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	654.3	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	28.8	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	154	
* 44000100	PAVEMENT REMOVAL	SQ YD	1773	
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SQ YD	838	
48100700	AGGREGATE SHOULDERS, TYPE A 8"	SQ YD	113	
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	7	
* 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	
* 50104650	SLOPE WALL REMOVAL	SQ YD	72	
50200100	STRUCTURE EXCAVATION	CU YD	330	
50200300	COFFERDAM EXCAVATION	CU YD	425.0	
50202901	COFFERDAM LOCATION 1	EACH	1	
50202902	COFFERDAM LOCATION 2	EACH	1	
50300100	FLOOR DRAINS	EACH	14	
50300225	CONCRETE STRUCTURES	CU YD	428.7	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	774.1	
50300260	BRIDGE DECK GROOVING	SQ YD	1601	
50300265	SEAL COAT CONCRETE	CU YD	151.1	
50300280	CONCRETE ENCASEMENT	CU YD	15.3	
50300300	PROTECTIVE COAT	SQ YD	2928	
50500105	FURNISHING & ERECTING STRUCT STEEL	L SUM	1	
50500505	STUD SHEAR CONNECTORS	EACH	4536	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	249170	
50800515	BAR SPLICERS	EACH	91	
Δ 50901720	BICYCLE RAILING	FOOT	486.6	
Δ 50901750	PARAPET RAILING	FOOT	514.5	
51201800	FURNISHING STEEL PILES HP14 X 73	FOOT	2136	
51202305	DRIVING PILES	FOOT	2136	
51203800	TEST PILE STEEL HP14 X 73	EACH	4	
51204650	PILE SHOES	EACH	65	
51500100	NAME PLATES	EACH	1	

* "SEE SPECIAL PROVISIONS, HIGHWAY STANDARDS, GENERAL NOTES, AND/OR DETAILS IN PLANS" Δ SPECIALTY ITEMS

SUMMARY OF QUANTITIES

CODE #	ITEM	UNIT	TOTAL QUANTITY	
			CODE 0011	CODE 0042
52000110	PREFORMED JOINT STRIP SEAL	FOOT	43.8	
52000216	FINGER PLATE EXPANSION JOINT 5"	FOOT	43.8	
52000600	FABRIC REINFORCED ELASTOMERIC TROUGH	FOOT	46.8	
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	7	
52100030	ELASTOMERIC BEARING ASSEMBLY, TYPE III	EACH	7	
52100520	ANCHOR BOLTS, 1"	EACH	28	
52100530	ANCHOR BOLTS, 1 1/4"	EACH	14	
52100540	ANCHOR BOLTS, 1 1/2"	EACH	14	
54213447	END SECTIONS 12"	EACH	2	
550A4000	STORM SEWERS, CLASS A, TYPE 1, EQUIVALENT ROUND SIZE 18"	FOOT	92	
58700300	CONCRETE SEALER	SQ FT	1017	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	77	
60100945	PIPE DRAINS 12"	FOOT	82	
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	
60600605	CONCRETE CURB, TYPE B	FOOT	16	
60900140	TYPE B INLET BOX STANDARD 609006	EACH	1	
* 60900515	CONCRETE THRUST BLOCKS	EACH	2	
Δ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	212.5	
Δ 63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	2	
Δ 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	
* 63200310	GUARDRAIL REMOVAL	FOOT	689	
Δ 66400205	CHAIN LINK FENCE, 5'	FOOT	306	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	
67100100	MOBILIZATION	L SUM	1	
Δ * 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3134	
Δ 78200410	GUARDRAIL MARKERS, TYPE A	EACH	5	
Δ 78200520	BARRIER WALL MARKERS, TYPE B	EACH	12	
Δ 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	
* X0325644	HIGH LOAD MULTI-ROTATION BEARINGS, GUIDED EXPANSION, 400K	EACH	7	
* X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	170.8	
* X6090150	TYPE B INLET BOX STANDARD 609006 (SPECIAL)	EACH	1	
* X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	
* XX006821	CONCRETE TRUCK WASHOUT	L SUM	1	
Z0013302	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	660	
* Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	374	
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1	
* Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	184	
Z0076600	TRAINEES	hour		1000

LAYOUT	REVIEWED
DRAWN	REVIEWED

FILE NAME = C:\B01-S00.dgn
MODEL NAME =

USER NAME =
PLOT SCALE =
PLOT DATE = 10/26/2010

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
KISHWAUKEE RIVER BRIDGE
WINNEBAGO COUNTY, ILLINOIS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	WINNEBAGO	66	3
CONTRACT NO. 85523				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



© Copyright Hanson Professional Services Inc. 2010

PAVEMENT REMOVAL				
STA.	WIDTH (FT.)	AVG. WIDTH (FT.)	LENGTH (FT.)	AREA (SQ. YD.)
83+50.00	24.0	32.0	276.0	981.3
86+26.00	24.0			
90+88.00	24.0	24.0	297.0	792.0
93+85.00	24.0			
TOTAL				1773.3

SUB-BASE GRANULAR MATERIAL, TYPE B 12"					HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50			HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50			BITUMINOUS MATERIAL (PRIME COAT)			
STA.	WIDTH (FT.)	AVG. WIDTH (FT.)	LENGTH (FT.)	AREA (SQ. YD.)	THICKNESS (IN.)	UNIT WT. (LBS. / SY / IN.)	TOT. WT. (TONS)	THICKNESS (IN.)	UNIT WT. (LBS. / SY / IN.)	TOT. WT. (TONS)	SUB-BASE		HMA BINDER	
83+50.00	26.0										RATE	GAL	RATE	GAL
85+84.25	26.0	26.0	234.3	676.7	8.5	112	297.3	2	112	70.0	0.5	312.3	0.1	62.5
91+03.75	26.0													
93+85.00	26.0	26.0	281.3	812.5	8.5	112	357.0	2	112	84.0	0.5	375.0	0.1	75.0
TOTAL							654.3			154.0	SUB	687.3	SUB	137.5
												TOTAL		824.8

AGGREGATE SHOULDERS, TYPE A 8"						
STA.	WIDTH (FT.)	AVG. WIDTH (FT.)	LENGTH (FT.)	SKEW FACTOR	ADJUSTED LENGTH	AREA (SQ. YD.)
84+40.00	3.0	3.0	76.05	1.0	76.0	25.3
85+16.05	3.0	3.0	84.20	1.005	84.6	28.2
86+00.25	3.0					
90+87.75	4.0	4.0	84.20	1.0	84.2	37.4
91+71.95	4.0	4.0	50.05	1.005	50.3	22.4
92+22.00	4.0					
TOTAL						113.3

AGGREGATE SHOULDERS, TYPE A 6"									
STA.	RT. OFFSETS	LT. OFFSETS	RT. WIDTH (FT.)	LT. WIDTH (FT.)	AVG. RT. WIDTH (FT.)	AVG. LT. WIDTH (FT.)	LENGTH (FT.)	RT. AREA (SQ. YD.)	LT. AREA (SQ. YD.)
83+50.00	20.00	12.00	8.00						
84+38.05	20.00	12.00	8.00		8.00		88.05	78.3	
85+57.13	15.42	12.00	3.42		5.71		119.08	75.5	
85+84.25	15.42	12.00	3.42		3.42		27.12	10.3	
91+03.75	15.42	12.00	3.42			3.42	27.13	10.3	
91+30.88	15.42	12.00	3.42		5.71		119.08	75.5	
92+49.96	20.00	12.00	8.00		8.00		135.04	120.0	
93+85.00	20.00	12.00	8.00						
83+50.00		20.00	12.00	8.00		8.00	90.00	80.0	
84+40.00		20.00	12.00	8.00					
84+55.00		25.00	12.00	13.00		13.00	60.45	87.3	
85+15.45		25.00	12.00	13.00		10.21	55.80	63.3	
85+71.25		19.42	12.00	7.42					
85+84.25		18.12	15.42	2.70					
91+03.75		18.12	15.42	2.70		3.19	16.00	5.7	
91+19.75		19.72	16.04	3.68					
91+19.75		19.72	12.00	7.72		7.33	52.80	43.0	
91+72.55		25.00	18.07	6.93		9.97	40.45	44.8	
92+13.00		25.00	12.00	13.00					
92+28.00		20.00	12.00	8.00		8.00	157.00	139.6	
93+85.00		20.00	12.00	8.00					
SUBTOTALS								370.0	468.1
TOTAL								838.1	

EARTHWORK SCHEDULE				
BEGIN STATION	END STATION	A	B	D
		EARTH EXCAVATION CU YD	EXCAVATION TO BE USED IN EMBANKMENT, ADJUSTED FOR SHRINKAGE (20%) CU YD	EARTHWORK BALANCE EXCESS (+) OR SHORTAGE (-) CU YD
83+50.00	86+00.25	498	398	-42
90+87.75	93+85.00	660	528	461
TOTAL		1160	925	420

EQUATIONS USED
B = A * 0.80
D = B - C

AGGREGATE BASE COURSE, TYPE A 5"							LEVELING BINDER (MACHINE METHOD), N50		
STA.	WIDTH (FT.)	AVG. WIDTH (FT.)	LENGTH (FT.)	SKEW FACTOR	ADJUSTED LENGTH	AREA (SQ. YD.)	THICKNESS (IN.)	UNIT WT. (LBS. / SY / IN.)	TOT. WT. (TONS)
84+40.00	23.0	23.0	15.0	1.0	15.0	38.3	1.5	112	3.2
84+55.00	23.0								
84+55.00	10.0	10.0	60.5	1.0	60.5	67.2	1.5	112	5.6
85+15.45	10.0	10.0	68.8	1.005	69.1	76.8	1.5	112	6.5
85+84.25	10.0								
91+03.75	10.0	10.0	68.8	1.005	69.1	76.8	1.5	112	6.5
91+72.55	10.0	10.0	40.5	1.000	40.5	44.9	1.5	112	3.8
92+13.00	10.0								
92+13.00	23.0	23.0	15.0	1.000	15.0	38.3	1.5	112	3.2
92+28.00	23.0								
TOTAL							342.4		28.8

SEEDING SCHEDULE					
LOCATION		SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT
BEGIN STATION	END STATION	ACRES	POUNDS	POUNDS	POUNDS
EAST SIDE OF STRUCTURE					
83+50.00	86+00.25	0.19	17	17	17
SUBTOTAL		0.19	17	17	17
WEST SIDE OF STRUCTURE					
90+87.75	93+85.00	0.08	7	7	7
SUBTOTAL		0.08	7	7	7
SUBTOTAL		0.00	0	0	0
TOTAL		0.27	24	24	24

PAVEMENT MARKING SCHEDULE						
LOCATION			PAINT PAVEMENT MARKING LINE 4"	GUARDRAIL MARKERS TYPE A	BARRIER WALL MARKERS	TERMINAL MARKER DIRECT APPLIED
BEGIN STATION	END STATION	OFFSET	FOOT	EACH	EACH	EACH
83+50.00	93+85.00	LT & RT	2070			
85+80.00	93+85.00	CENTERLINE	805			
83+50.00	93+85.00	CENTERLINE	259			
84+67.00	85+47.00	RT		2		
86+27.00	90+27.00	RT			6	
91+07.00	-	RT		1		
85+52.00	-	LT		1		
86+32.00	90+32.00	LT			6	
91+12.00	-	LT		1		
84+07.10	-	RT				1
91+67.20	-	RT				1
84+67.30	-	LT				1
91+96.90	-	LT				1
TOTAL			3134	5	12	4

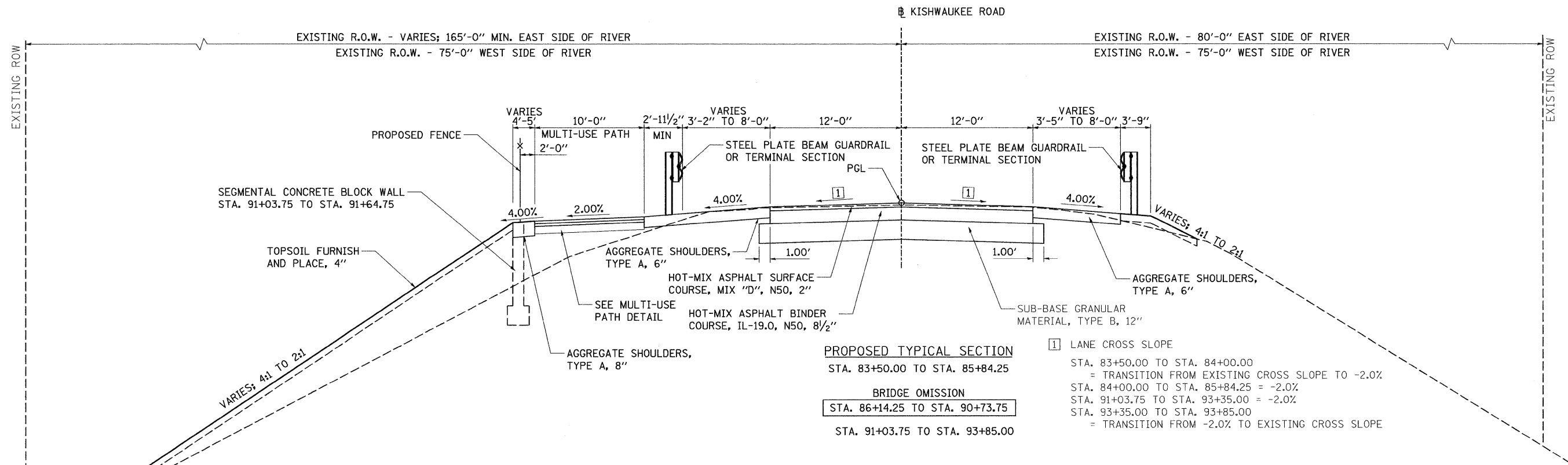
CHAIN LINK FENCE, 5'			
STA.	LENGTH (FT.)	SKEW FACTOR	ADJUSTED LENGTH
84+20.00	96.05	1.0	96.0
85+16.05	83.95	1.005	84.4
86+00.00			
90+88.00	83.95	1.0	84.0
91+71.95	41.05	1.005	41.3
92+13.00			
TOTAL			305.6

LAYOUT
DRAWN
REVIEWED

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES KISHWAUKEE RIVER BRIDGE WINNEBAGO COUNTY, ILLINOIS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C-601-SCH.dgn		DRAWN -	REVISED -			5103	03-00337-00-BR	WINNEBAGO	66	4
MODEL NAME =	PLOT SCALE =	CHECKED -	REVISED -			CONTRACT NO. 85523				
	PLOT DATE = 10/26/2010	DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.
						FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



© Copyright Hanson Professional Services Inc. 2010



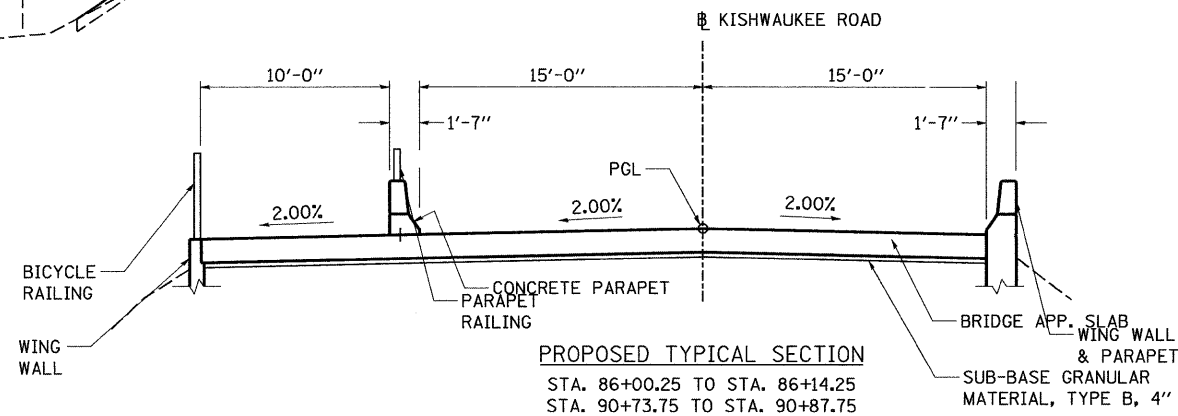
PROPOSED TYPICAL SECTION

STA. 83+50.00 TO STA. 85+84.25

BRIDGE OMISSION

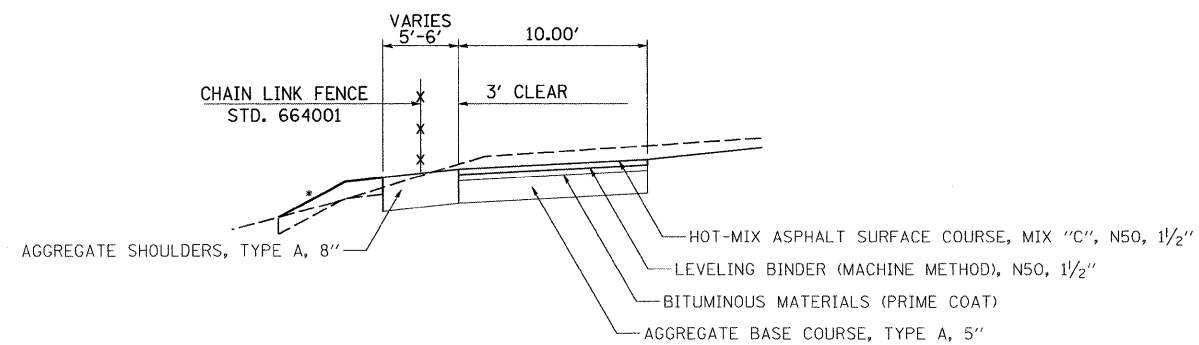
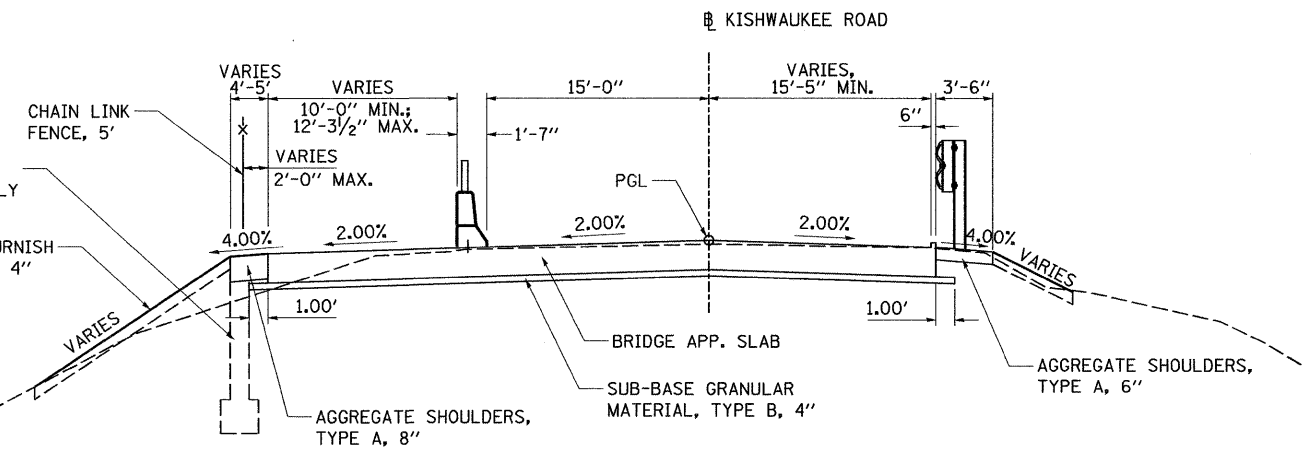
STA. 86+14.25 TO STA. 90+73.75

STA. 91+03.75 TO STA. 93+85.00



SEGMENTAL CONCRETE BLOCK WALL
STA. 90+87.75 TO STA. 91+03.75 ONLY

TOPSOIL FURNISH
AND PLACE, 4"
(TYP.)



	KISHWAUKEE PAVEMENT		SHARED USE PATH
MIXTURE USES(S):	SURFACE	BINDER	& SHOULDER
PG:	PG 64-22	PG 64-22	PG 58-22
DESIGN AIR VOIDS	4.0 @ N50	4.0 @ N50	3 @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5 OR 12.5	IL 19.0	IL 9.5
FRICTION AGGREGATE	D	N/A	C
20 YEAR ESAL	1.7	1.7	N/A
MIX UNIT WEIGHT	112 lbs/sy/in		112 lbs/sy/in

FILE NAME =
C-501-TYP.dgn
MODEL NAME =

USER NAME =
PLOT SCALE =
PLOT DATE = 10/26/2010

DESIGNED - MWH
DRAWN - MWH
CHECKED - DPA
DATE - 07/10/08

REVISED -
REVISED -
REVISED -
REVISED -

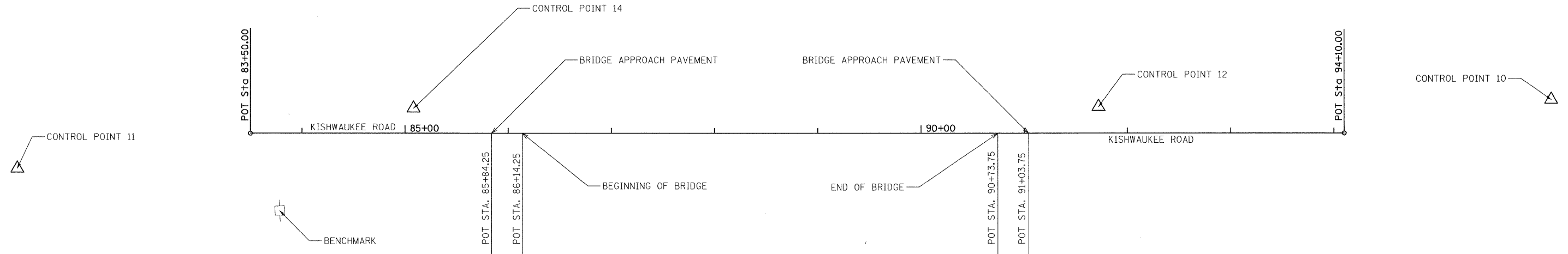
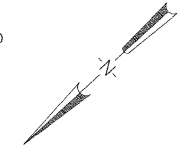
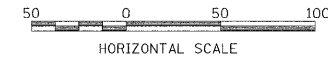
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
KISHWAUKEE RIVER BRIDGE
ROCKFORD, ILLINOIS

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

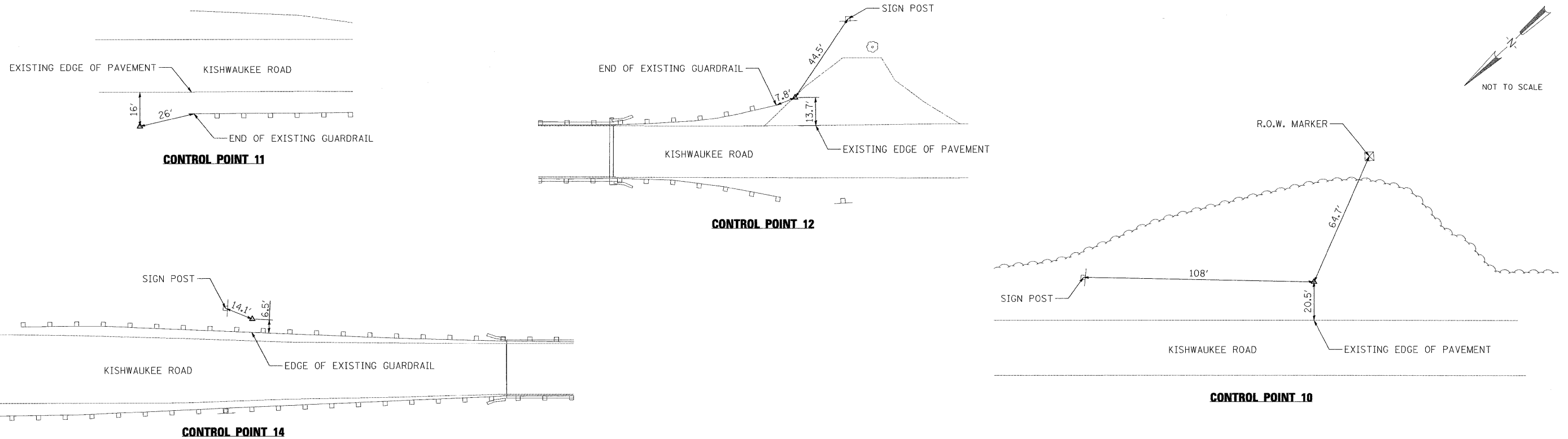
F.A.U. SECTION COUNTY TOTAL SHEETS SHEET NO.
5103 03-00337-00-BR WINNEBAGO 66 5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 85523

ALIGNMENT COORDINATES			
CONTROL ITEM		NORTHING	EASTING
CONTROL	10	2,011,337.15	2,576,648.32
CONTROL	11	2,011,986.74	2,577,986.81
CONTROL	12	2,011,517.12	2,577,048.31
CONTROL	14	2,011,781.34	2,577,657.27
POT	83+50.00	2,011,866.07	2,577,793.02
POT	85+84.25	2,011,773.30	2,577,577.92
POT	86+14.25	2,011,761.42	2,577,550.38
POT	90+73.75	2,011,579.43	2,577,128.45
POT	91+03.75	2,011,567.55	2,577,100.90
POT	94+10.00	2,011,446.26	2,576,819.69



BENCHMARK

RAILROAD SPIKE IN POWER POLE
STA. 83+78.50, 75.30' RT.
ELEVATION 687.86



NOT TO SCALE

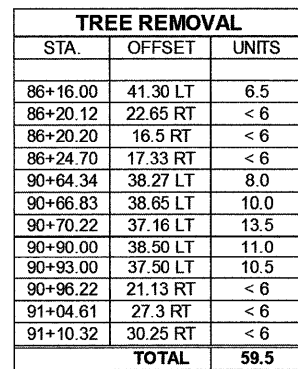
FILE NAME =	USER NAME =	DESIGNED -	REVISED -
C-101-GEOM.dgn		DRAWN -	REVISED -
MODEL NAME =	PLOT SCALE =	CHECKED -	REVISED -
	PLOT DATE = 10/26/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

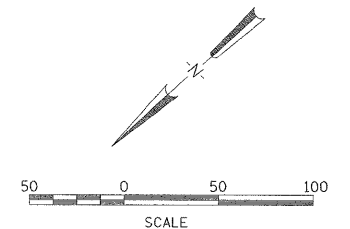
ALIGNMENT, TIES, & BENCHMARKS
KISHWAUKEE RIVER BRIDGE
WINNEBAGO COUNTY, IL

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	WINNEBAGO	66	6
CONTRACT NO. 85523				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



REMOVAL LEGEND

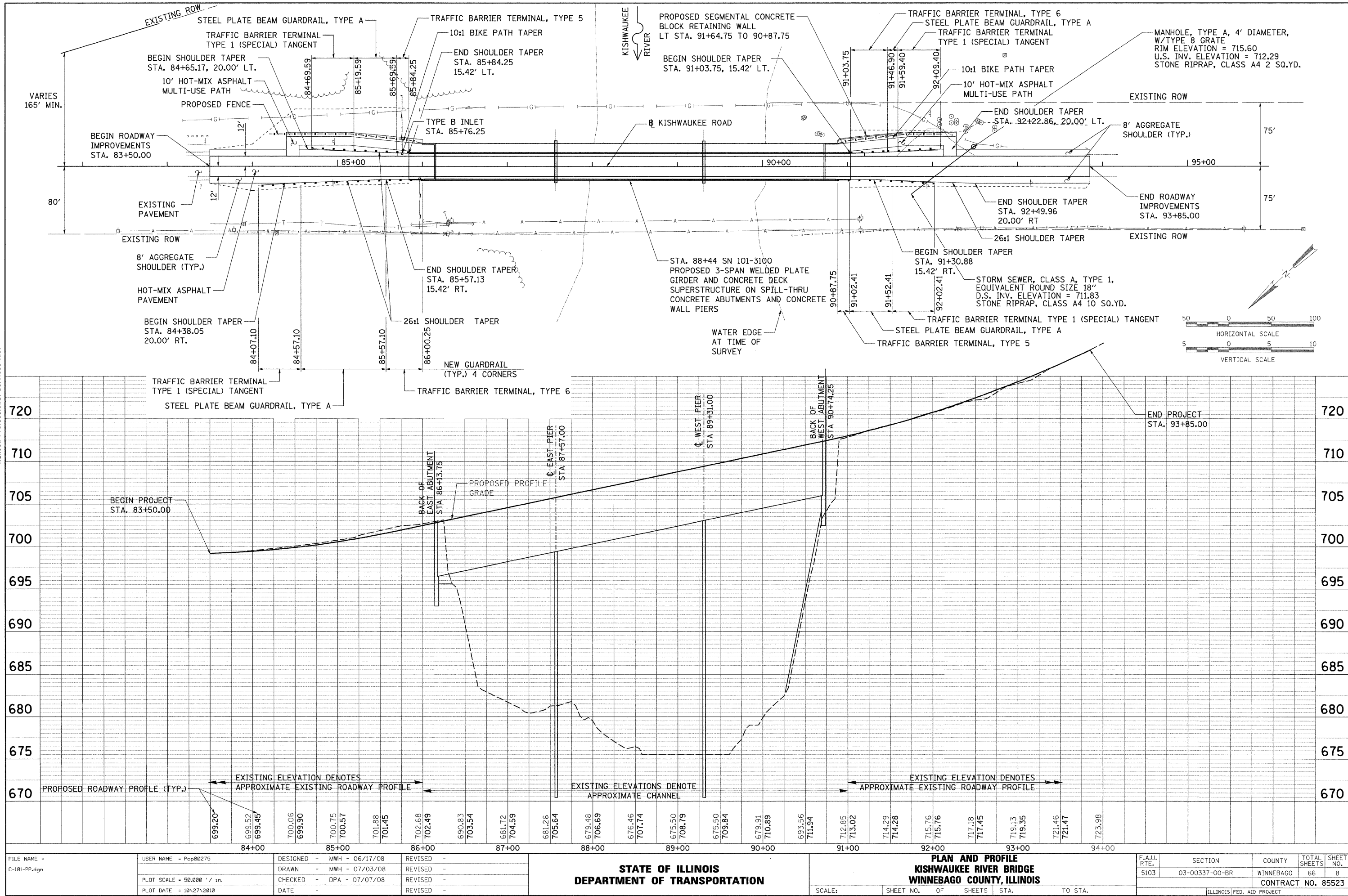


FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLAN KISHWAUKEE RIVER BRIDGE WINNEBAGO COUNTY, IL				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C-102-DEM.dgn		DRAWN -	REVISED -		5103	03-00337-00-BR	WINNEBAGO	66	7				
MODEL NAME =	PLOT SCALE =	CHECKED -	REVISED -		CONTRACT NO. 85523								
	PLOT DATE = 10/26/2010	DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	NO.	
	CADD FILE NAME	

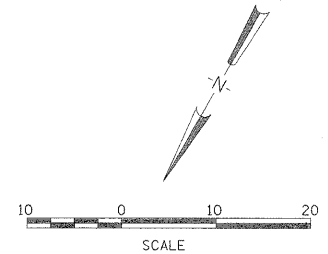
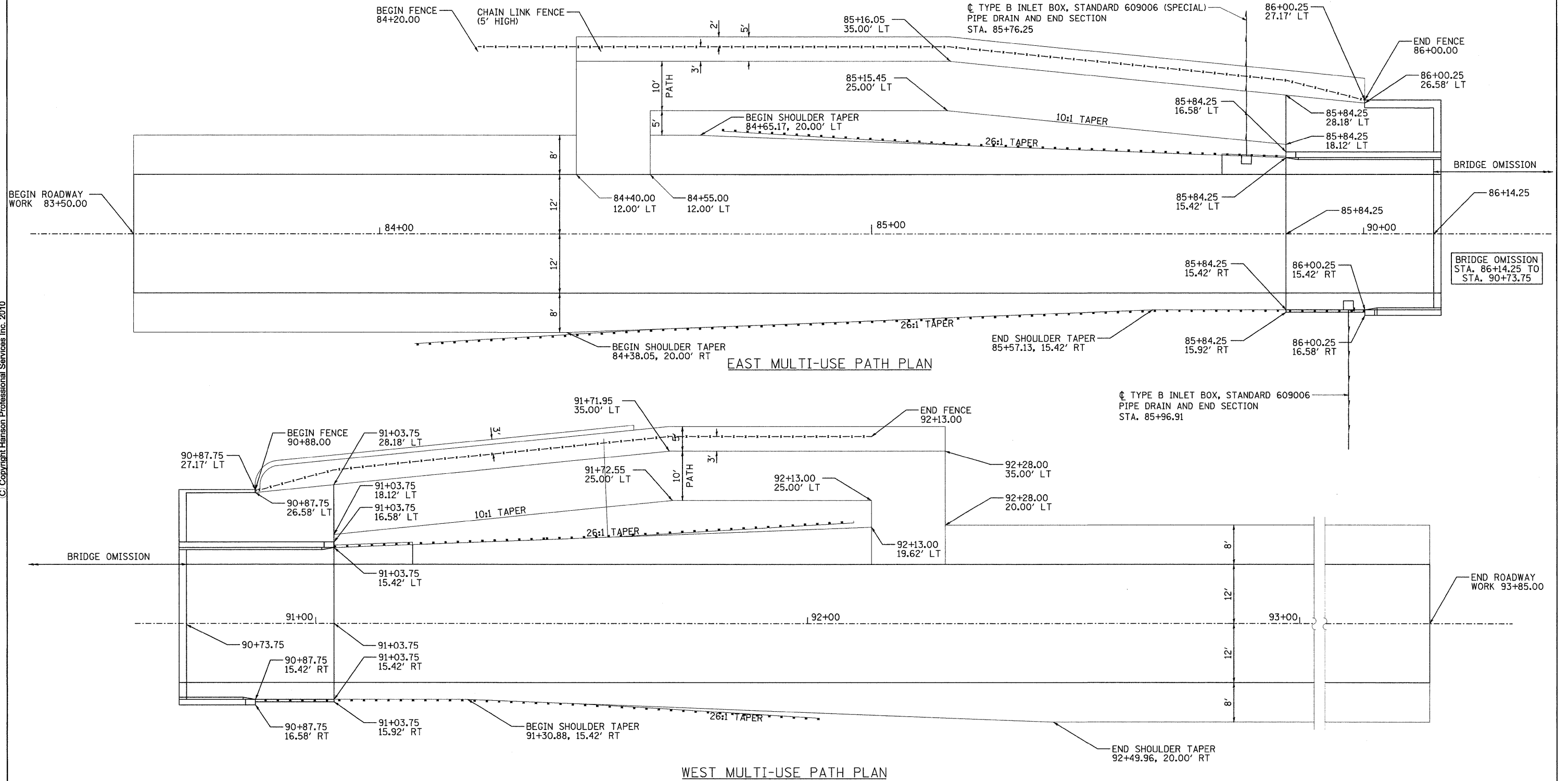
© Copyright Hanson Professional Services Inc. 2010
HANSON
Hanson Professional Services Inc.

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	NO.	
	STRUCTURE NOTATIONS CHKD	

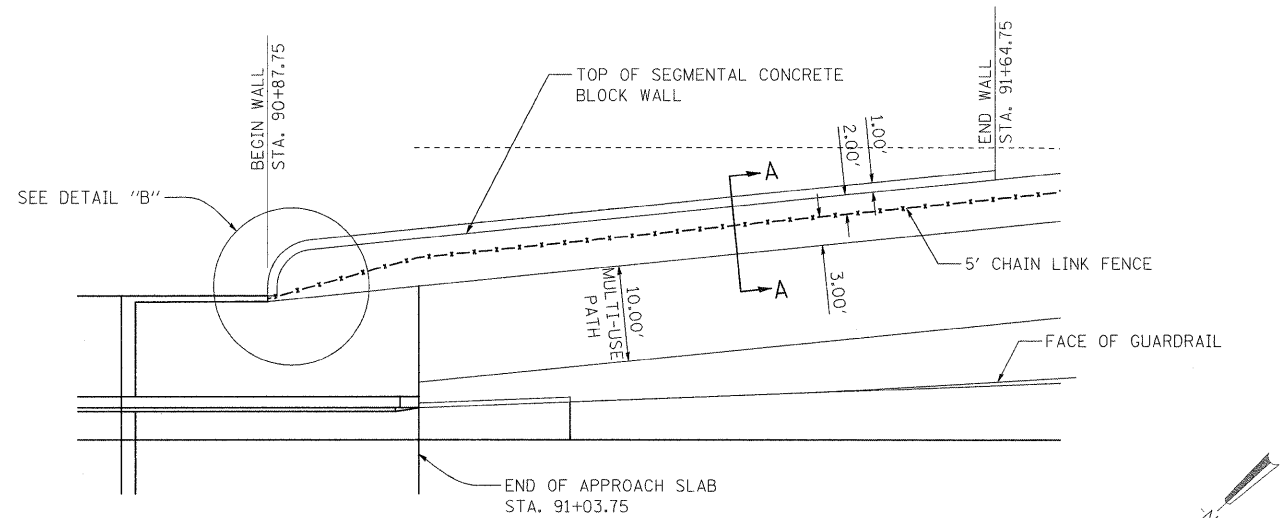




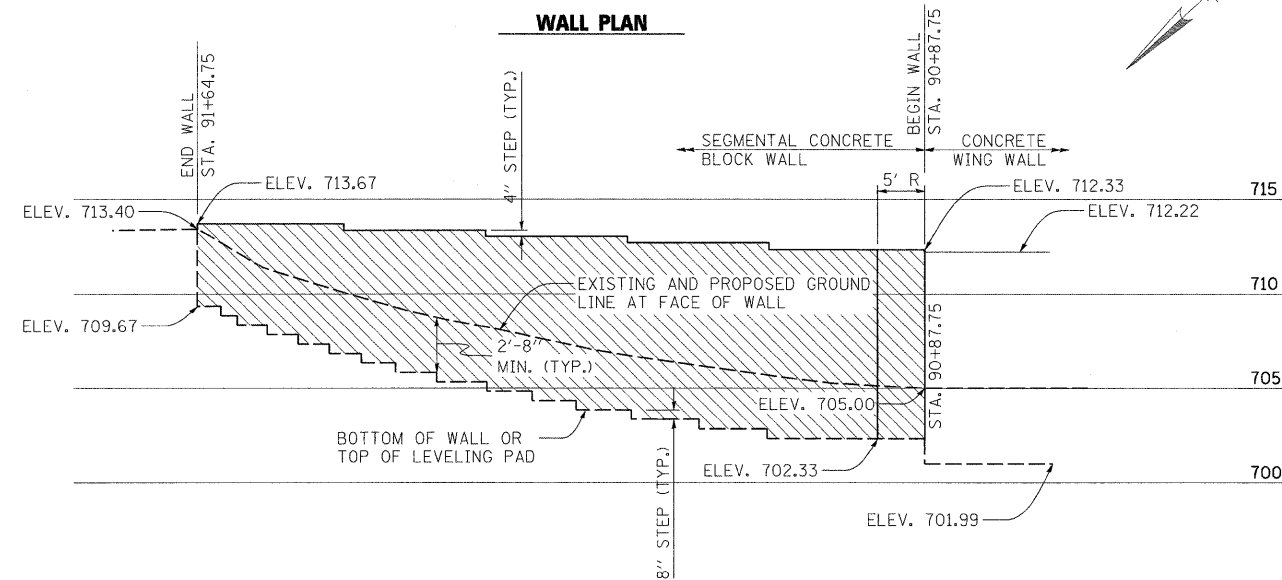
© Copyright Hanson Professional Services Inc. 2010



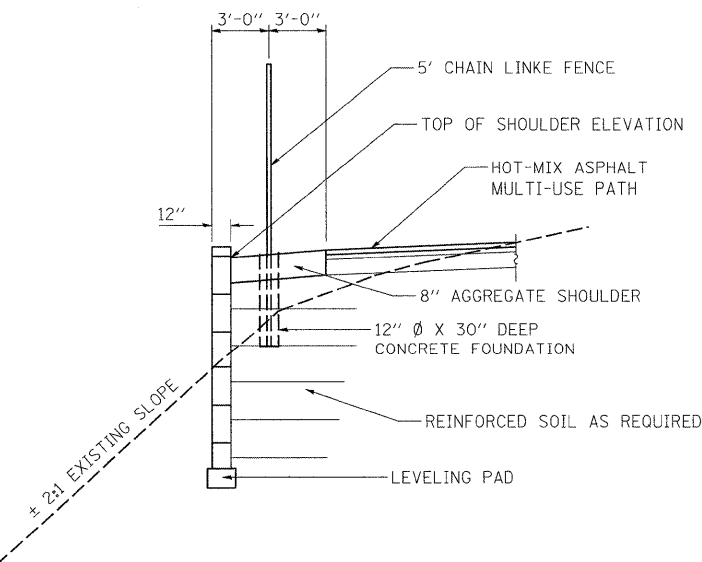
FILE NAME =	USER NAME =	DESIGNED - MWH - 06/17/08	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		MULTI-USE PATH PLAN AND SECTION KISHWAUKEE RIVER BRIDGE WINNEBAGO COUNTY, ILLINOIS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C-902-DET.dgn		DRAWN - MWH - 07/10/08	REVISED -					5103	03-00337-00-BR	WINNEBAGO	66	9
MODEL NAME =		CHECKED - DPA - 07/10/08	REVISED -					CONTRACT NO. 85523				
		DATE -	REVISED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
LAYOUT	DRAWN	REVIEWED		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.		



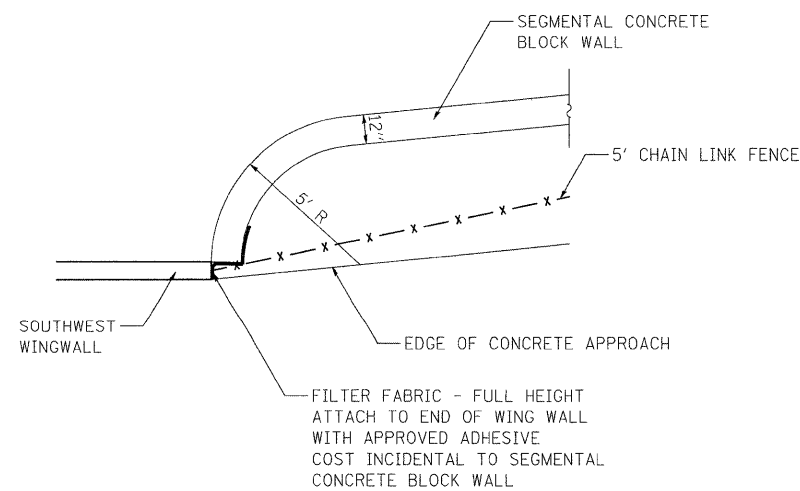
WALL PLAN



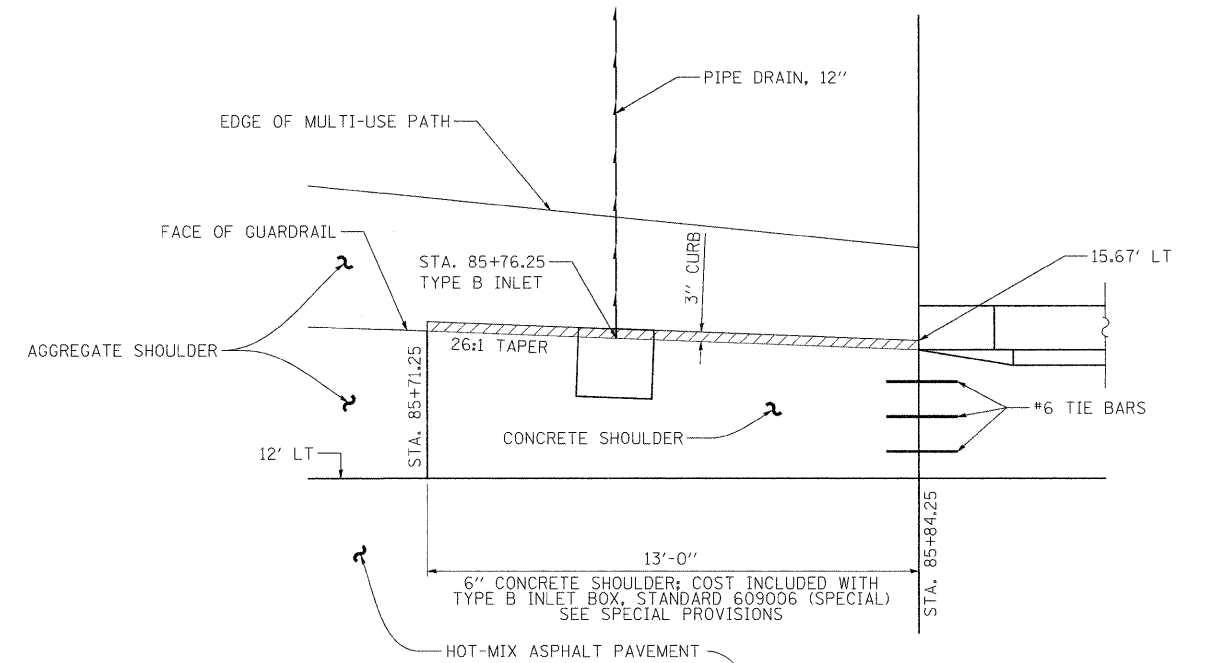
WALL ELEVATION (LOOKING NORTH)



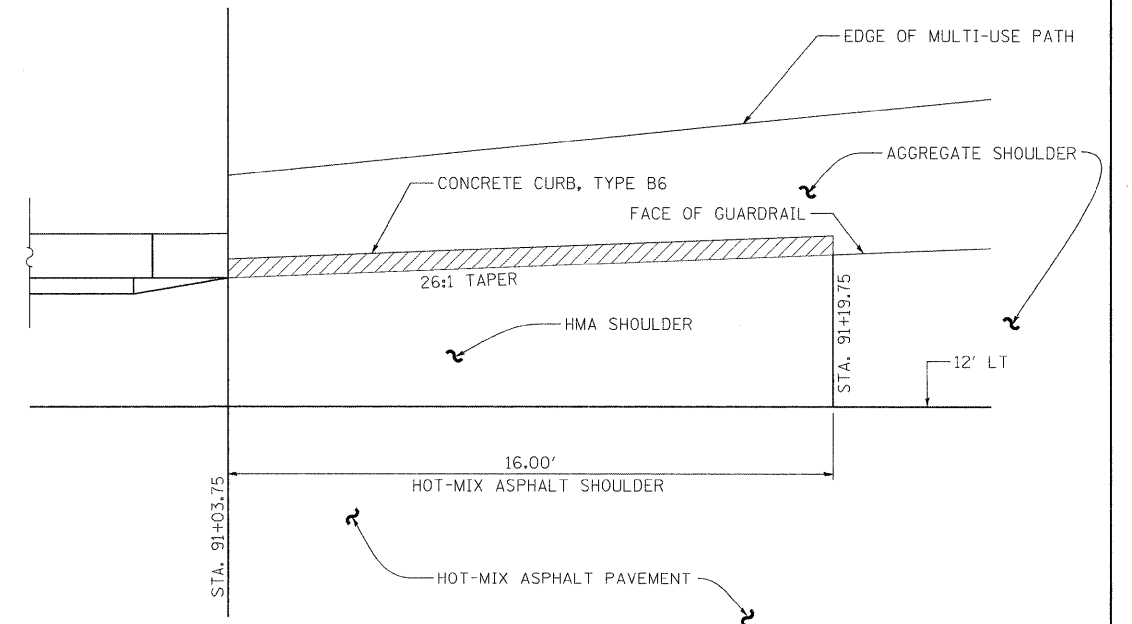
SECTION A-A



DETAIL "B"



DRAINAGE DETAIL (SOUTH EAST CORNER)



DRAINAGE DETAIL (SOUTH WEST CORNER)

FILE NAME =
C-503-MISC_DET.dgn
MODEL NAME =

USER NAME =
PLOT SCALE =
PLOT DATE = 10/26/2010

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

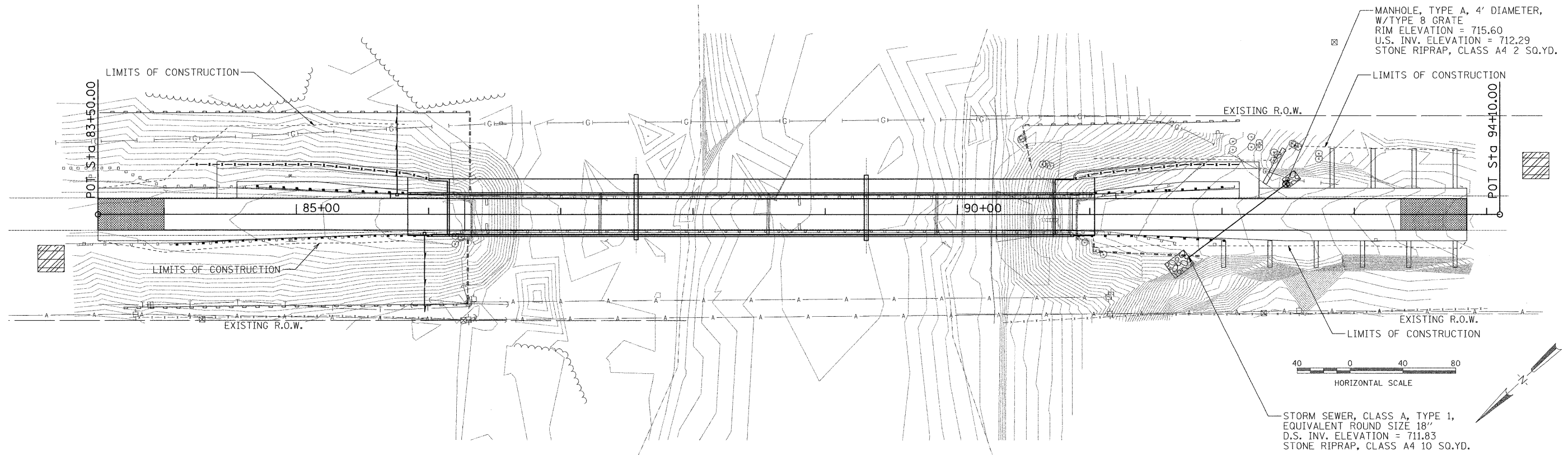
**MISCELLANEOUS ROADWAY DETAILS
KISHWAUKEE RIVER BRIDGE
WINNEBAGO COUNTY, ILLINOIS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	WINNEBAGO	66	10
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 85523	



© Copyright Hanson Professional Services Inc. 2010



GENERAL

1. THE EROSION CONTROL PLANS ARE INCLUDED TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.
2. PLACEMENT AND MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION WORK ZONE AS SOON AS POSSIBLE TO STABILIZE EXPOSED SOILS AND PREVENT ON-SITE DAMAGE. THIS WORK MAY BE CONSTRUCTED OF HAY OR STRAW BALES, SILT FILTER FENCE, SEEDING, OR OTHER APPROPRIATE METHODS AND MATERIALS, SEPARATELY OR IN COMBINATION AS APPROVED BY THE RESIDENT ENGINEER.
3. EROSION CONTROL DEVICES SHALL BE IN PLACE AND APPROVED BY THE RESIDENT ENGINEER AS TO PROPER PLACEMENT AND INSTALLATION PRIOR TO BEGINNING OTHER WORK.
4. THE RESIDENT ENGINEER WILL DETERMINE WHEN TEMPORARY EROSION CONTROL SYSTEMS SHOWN ON THE PLAN MAY BE MOVED TO A DIFFERENT LOCATION OR DELETED.
5. THE WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 280-TEMPORARY EROSION CONTROL OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
6. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE RESIDENT ENGINEER AND AS SHOWN IN STANDARD 280001, OR IN THESE PLANS.
7. TEMPORARY EROSION CONTROL SYSTEMS ARE NOTED ON THE EROSION CONTROL PLAN. THE PLAN MAY INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
 - TEMPORARY DITCH CHECKS
 - PERIMETER EROSION BARRIER
 - INLET AND PIPE PROTECTION
 - TEMPORARY EROSION CONTROL SEEDING
 - EROSION CONTROL BLANKET
8. THE EROSION CONTROL PLAN INCLUDES WEEKLY INSPECTIONS TO BE COMPLETED BY THE CONTRACTOR AND RESIDENT ENGINEER.
9. IN THE EVENT OF HIGH WATER AND/OR HIGH FLOW RATES THAT DAMAGE THE PERIMETER EROSION AND SEDIMENT CONTROLS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING EROSION CONTROLS AND FOR RETRIEVING ANY CONTROLS THAT HAVE BEEN WASHED DOWNSTREAM.
10. STRAW BALES ARE NOT ALLOWED FOR ANY USE EXCEPT FOR CONCRETE TRUCK CLEAN UP.
11. SILT FENCING IS NOT ALLOWED FOR USE IN DITCH CHECKS.

PRIOR TO CONSTRUCTION

1. PRIOR TO PERFORMING CONSTRUCTION ACTIVITIES RESULTING IN LAND DISTURBANCE, THE CONTRACTOR SHALL INSTALL ITEMS (IF SPECIFIED ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER) INTENDED TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THE ITEMS MAY INCLUDE THE FOLLOWING:
 - TEMPORARY DITCH CHECKS
 - INLET AND PIPE PROTECTION
 - PERIMETER EROSION BARRIER

DURING CONSTRUCTION

1. DURING CONSTRUCTION, THE CONTRACTOR SHALL:
 - CLEAN UP AND GRADE THE WORK AREA TO ELIMINATE CONCENTRATION OF RUNOFF.
 - INSTALL TEMPORARY DITCH CHECKS AT LOCATIONS SPECIFIED IN THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.
 - INSTALL INLET AND PIPE PROTECTION AT LOCATIONS SPECIFIED IN THE PLAN OR AS DIRECTED BY THE RESIDENT ENGINEER.
 - COVER THE OPEN ENDS OF PIPES IN TRENCHES AT THE CLOSE OF EACH WORKING DAY.
 - PERFORM TEMPORARY EROSION CONTROL SEEDING AS SPECIFIED IN ARTICLE 280.04(f) OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS DIRECTED BY THE RESIDENT ENGINEER. TEMPORARY EROSION CONTROL SEEDING, SHALL ONLY BE PLACED ON AREAS EXPECTED TO REMAIN UNDISTURBED FOR GREATER THAN 21 CONTINUOUS DAYS.
2. THE CONTRACTOR SHALL MAINTAIN OR REPLACE (IF SPECIFIED BY THE RESIDENT ENGINEER) SEDIMENT CONTROL ITEMS:
 - THE TEMPORARY EROSION CONTROL SYSTEMS INSTALLED BY THE CONTRACTOR SHALL BE PROPERLY MAINTAINED AS DIRECTED BY THE RESIDENT ENGINEER AT ALL TIMES DURING THE PROJECT. THIS WORK SHALL INCLUDE REPAIR OF THE VARIOUS SYSTEMS, AND REMOVAL OF TRAPPED SEDIMENT.
 - IF THE CONTRACTOR FAILS TO MAINTAIN THE TEMPORARY EROSION CONTROL SYSTEMS AS DIRECTED BY THE RESIDENT ENGINEER, THE RESIDENT ENGINEER MAY AT THE EXPIRATION OF A PERIOD OF 48 HOURS, AFTER HAVING GIVEN THE CONTRACTOR WRITTEN NOTICE, PROCEED TO MAINTAIN THE SYSTEMS AS DEEMED NECESSARY, AND THE COST THEREOF WILL BE DEDUCTED FROM ANY COMPENSATION DUE, OR WHICH MAY BECOME DUE TO THE CONTRACTOR UNDER THIS CONTRACT.

PRIOR TO LANDSCAPING/RESTORATION

1. IMMEDIATELY PRIOR TO LANDSCAPING/RESTORATION WORK, THE CONTRACTOR SHALL:
 - REMOVE AND DISPOSE OF SILT RETAINED BY THE TEMPORARY DITCH CHECKS, REINSTALL THE TEMPORARY DITCH CHECKS AFTER CLEANING, AND REMOVE AND REPLACE PLUGGED OR DAMAGED HAY OR STRAW BALES.
 - REMOVE AND DISPOSE OF SILT RETAINED BY THE PERIMETER EROSION BARRIER, REINSTALL THE PERIMETER EROSION BARRIER AFTER CLEANING, AND REMOVE AND REPLACE PLUGGED OR DAMAGED SILT FILTER FENCE.

FOLLOWING LANDSCAPING/RESTORATION

1. AFTER LANDSCAPING/RESTORATION WORK, THE CONTRACTOR SHALL MAINTAIN OR REPLACE (IF SPECIFIED BY THE RESIDENT ENGINEER) SEDIMENT CONTROL ITEMS.

VEGETATION ESTABLISHED

1. AFTER THE VEGETATION IS ESTABLISHED IN THE DISTURBED AREA, THE CONTRACTOR SHALL:
 - REMOVE THE REMAINING SEDIMENT CONTROL ITEMS AS DIRECTED BY THE RESIDENT ENGINEER.
 - RESTORE THE AREAS DISTURBED BY THE SEDIMENT CONTROL ITEMS BY PERMANENT SEEDING MEASURES.

INTENDED SEQUENCE

1. PLACE PERIMETER EROSION CONTROL BARRIER PRIOR TO COMMENCEMENT OF ANY WORK. SEE STD. 280001
2. CONSTRUCT EARTHWORK, INCLUDING DITCHES. (MAXIMUM 10 ACRES DISTURBED AT ONE TIME PRIOR TO SEEDING. SEE ART. 280).
3. PLACE AND MAINTAIN TEMPORARY AND PERMANENT EROSION CONTROLS AS WORK PROGRESSES, SEED EVERY 7 DAYS. SEE ART. 280.
4. FINAL SHAPE, GRADE, AND PAVE ROADWAY.
5. PLACE REMAINING PERMANENT EROSION CONTROLS.

LEGEND

- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION
- EROSION CONTROL BLANKET
- DITCH FLOW
- TYPE A EROSION CONTROL BARRIER INCLUDES ALL TYPES OF PERIMETER EROSION CONTROL MATERIALS
- TYPE B EROSION CONTROL BARRIER INCLUDES ONLY THOSE TYPES OF EROSION CONTROL MATERIALS THAT DO NOT DISTURB THE SOIL FOR INSTALLATION
- CONCRETE TRUCK CLEAN OUT
- STABILIZED CONSTRUCTION ENTRANCE

LAYOUT
DRAWN
REVIEWED

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
C-101-ERO.dgn		DRAWN -	REVISED -
MODEL NAME =	PLOT SCALE =	CHECKED -	REVISED -
	PLOT DATE = 10/26/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
KISHWAUKEE RIVER BRIDGE
WINNEBAGO COUNTY, ILLINOIS

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

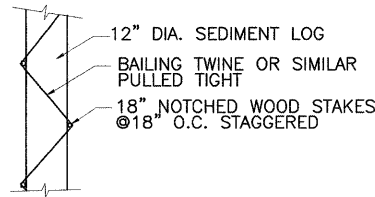
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	WINNEBAGO	66	11
CONTRACT NO. 85523				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



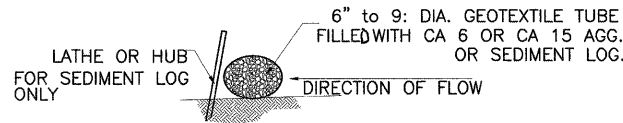
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL PLAN (DETAILS) KISHWAUKEE RIVER BRIDGE WINNEBAGO COUNTY, IL				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C-102-ERO.dgn		DRAWN -	REVISED -						5103	03-00337-00-BR	WINNEBAGO	66	12
MODEL NAME =		CHECKED -	REVISED -		CONTRACT NO. 85523								
	PLOT SCALE =	DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	
	PLOT DATE = 10/26/2010	DATE -	REVISED -										

DITCH CHECK INSTALLATION

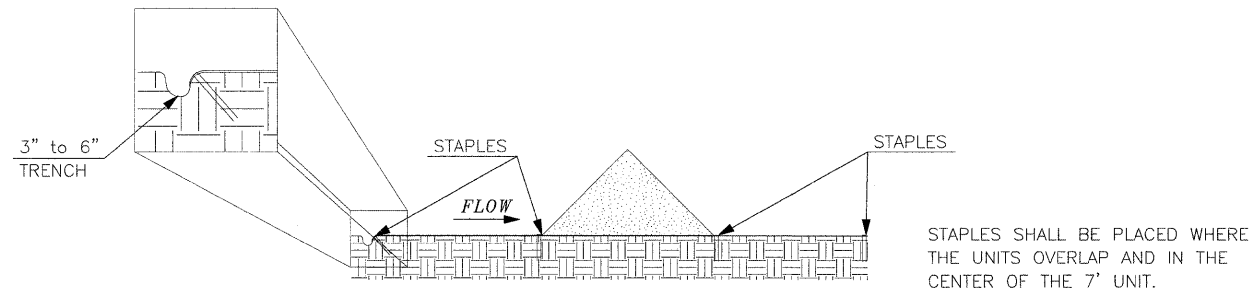
GEOTEXTILE TUBE FILLED
WITH AGGREGATE



SEDIMENT LOG PLAN VIEW
NTS

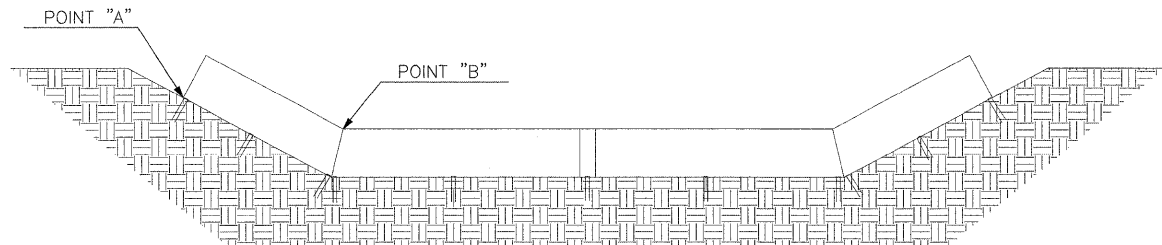


ROC-SOC OR ROCK FILLED TUBE
NTS



TRIANGULAR DITCH CHECK

SEDIMENT BARRIERS FOR CONCENTRATED FLOWS



POINT "A" MUST BE 6" HIGHER THAN POINT "B" TO
ENSURE THAT WATER FLOWS OVER THE DIKE
AND NOT AROUND THE ENDS.

GENERAL LAYOUT OF DITCH CHECKS

LAYOUT	
DRAWN	
REVIEWED	

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
C-102-ER0.dgn		DRAWN -	REVISED -
MODEL NAME =	PLOT SCALE =	CHECKED -	REVISED -
	PLOT DATE = 10/26/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN (DETAILS)
KISHWAUKEE RIVER BRIDGE
WINNEBAGO COUNTY, IL

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	WINNEBAGO	66	13
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 85523	



© Copyright Hanson Professional Services Inc. 2010

5

DETOUR
M4-8 (24"X12")

KISHWAUKEE ROAD

4.2 32.8 4 13.8 4.2

59

3.0" Radius, 1.0" Border, Black on Orange;
(KISHWAUKEE ROAD) D;

6

DETOUR
M4-8 (24"X12")



W16-5P (24"X18")

KISHWAUKEE ROAD

4.7 32.8 4 13.8 4.7

60

3.0" Radius, 1.0" Border, Black on Orange;
(KISHWAUKEE ROAD) D;

7

DETOUR
M4-8 (24"X12")



W16-5P (24"X18")

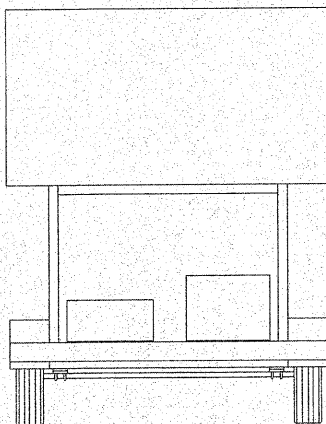
KISHWAUKEE ROAD

4.7 32.8 4 13.8 4.7

60

3.0" Radius, 1.0" Border, Black on Orange;
(KISHWAUKEE ROAD) D;

9

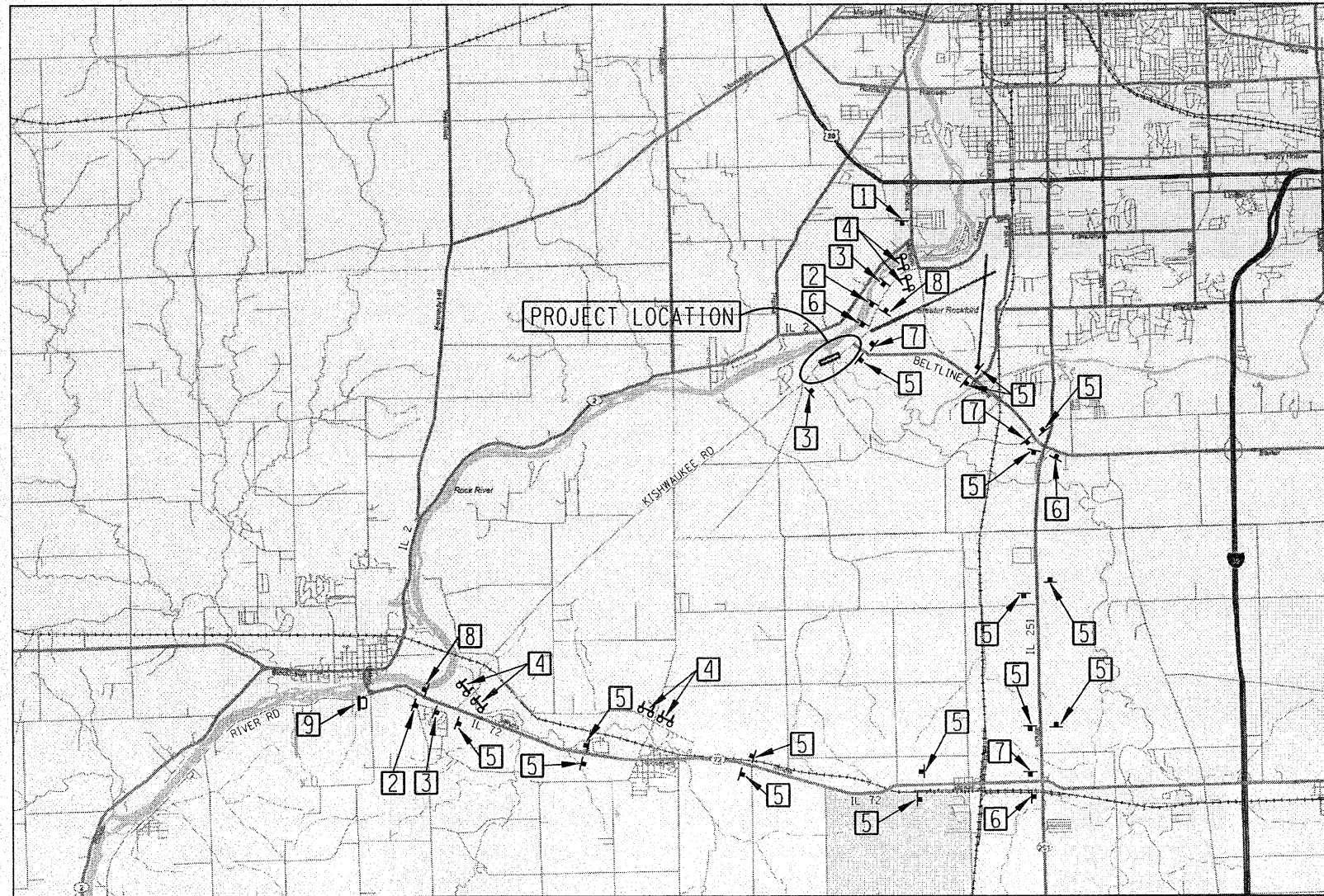


Message Board to display
sign 1 message.

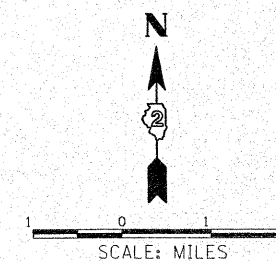
8

**END
DETOUR**

W4-8a (24"X18")



LOCATION MAP



1

**KISHWAUKEE RD
CLOSED AT
KISHWAUKEE RIVER**

8.5 32.7 4 6.3 8.5

15.1 19.7 4 6.1 15.1

4.3 32.7 4 14.7 4.3

60

3.0" Radius, 1.0" Border, Black on Orange;
(KISHWAUKEE RD) D; (CLOSED AT) D;
(KISHWAUKEE RIVER) D;

2

TYPE B FLASHER



**DETOUR
AHEAD**

W20-2 (48"X48")

3



**ROAD
CLOSED
AHEAD**

W20-3 (48"X48")

**KISHWAUKEE RD AT
KISHWAUKEE RIVER**

6.5 32.7 4 6.3 4 6 6.5

6.8 32.8 5 14.6 6.8

66

3.0" Radius, 1.0" Border, Black on Orange;
(KISHWAUKEE RD AT) D; (KISHWAUKEE RIVER) D;

4

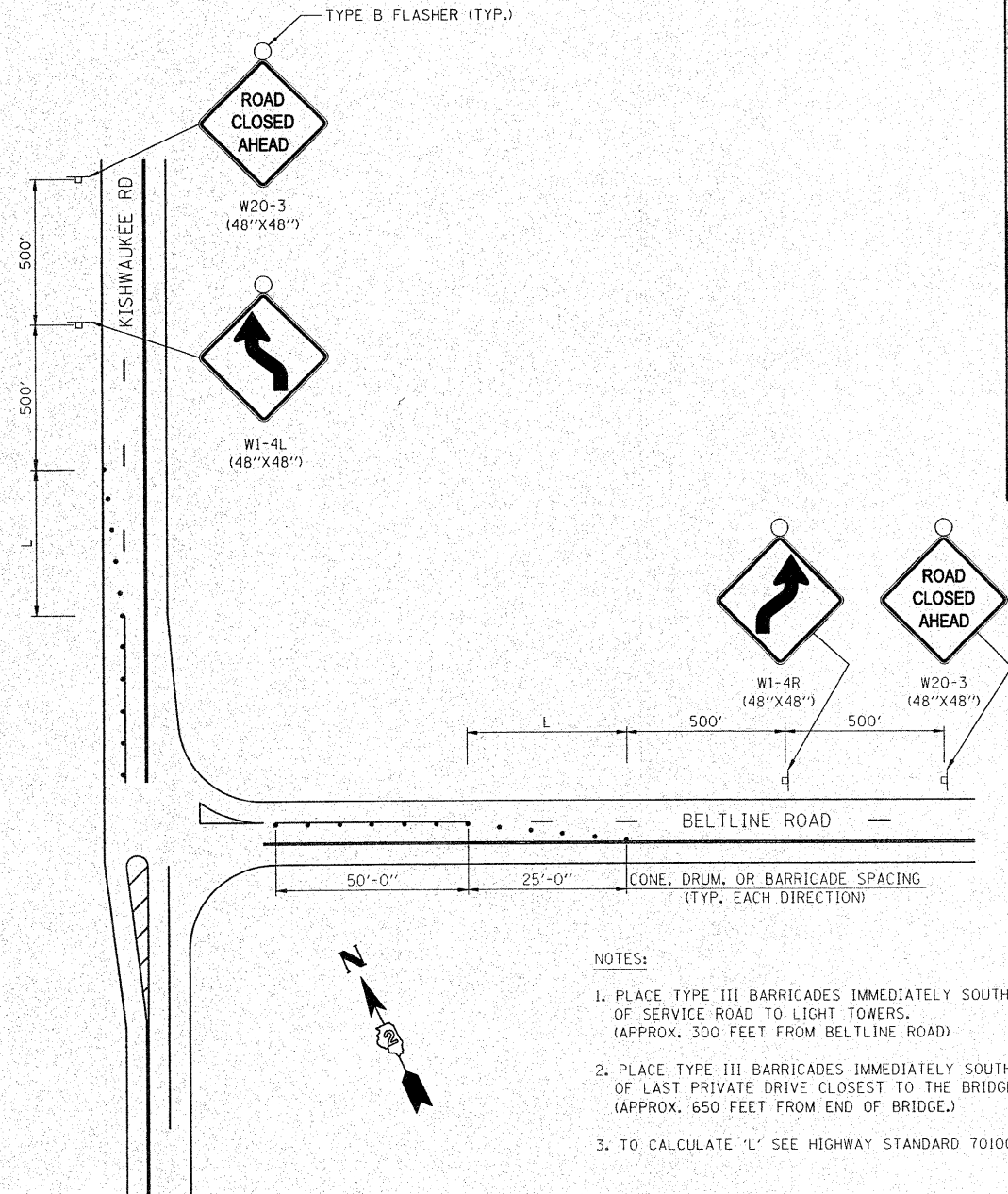
**ROAD CLOSED
XX MILES AHEAD
LOCAL TRAFFIC ONLY**

R11-3a (60"X30")

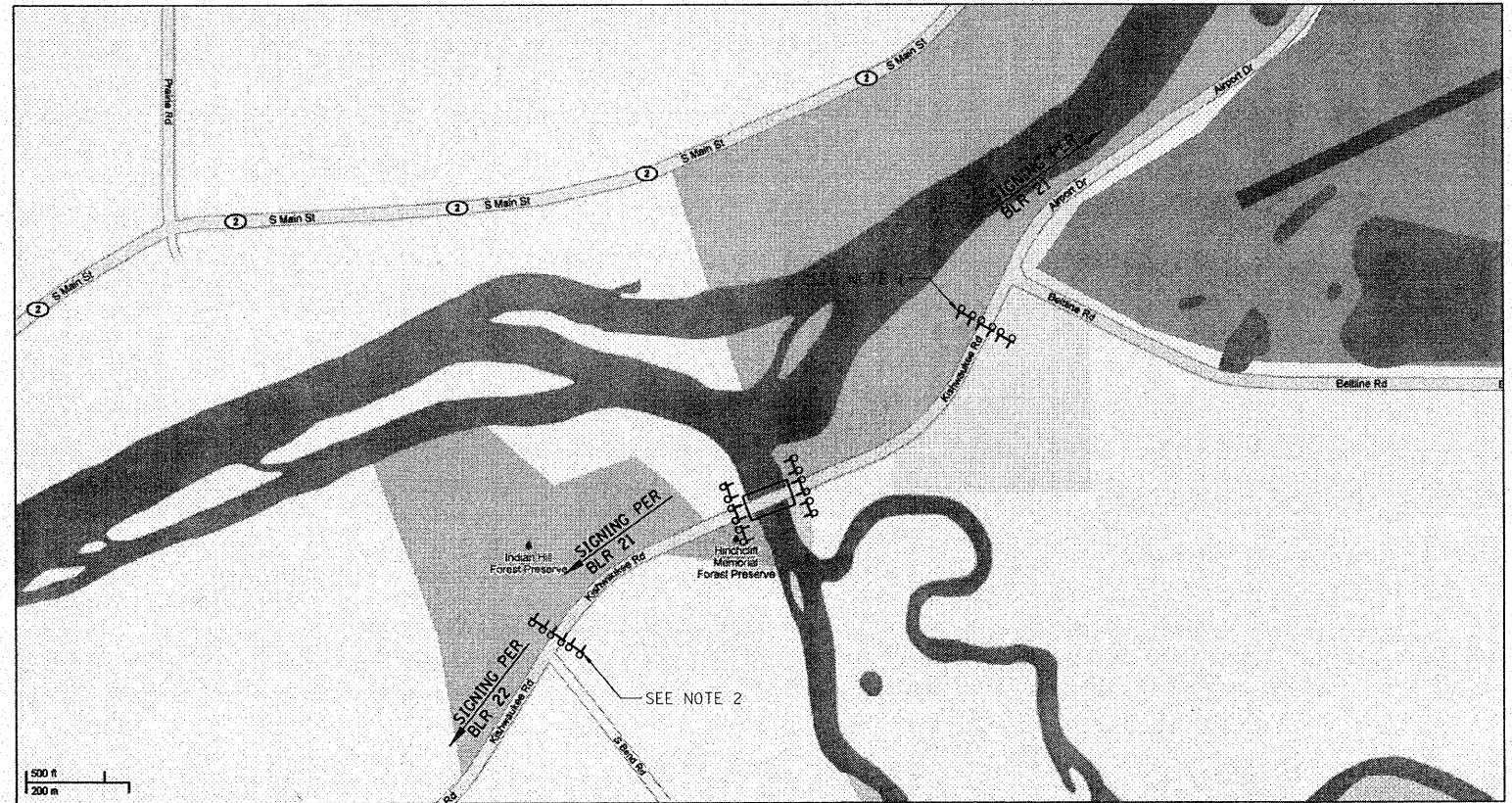
FILE NAME = C:\504-DET.dgn	USER NAME =	DESIGNED - DPA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR ROUTE KISHWAUKEE RIVER BRIDGE WINNEBAGO COUNTY, IL	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MODEL NAME =		DRAWN - JDM	REVISED -			5103	03-00337-00-BR	WINNEBAGO	66	14
	PLOT SCALE =	CHECKED - DPA	REVISED -			CONTRACT NO. 85523				
	PLOT DATE =	DATE - 11/08/10	REVISED -							
SCALE: SHEET NO. OF SHEETS STA. TO STA.						FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				



© Copyright Hanson Professional Services Inc. 2010



KISHWAUKEE RD./BELTLINE RD.
INTERSECTION DETAIL



ROAD CLOSURE DETAIL

FILE NAME = C-605-DET.dgn	USER NAME =	DESIGNED - DPA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROAD CLOSURE DETAIL KISHWAUKEE RIVER BRIDGE WINNEBAGO COUNTY, IL	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MODEL NAME =	PLOT SCALE =	DRAWN - JDM	REVISED -			5103	03-00337-00-BR	WINNEBAGO	66	15
	PLOT DATE =	CHECKED - DPA	REVISED -			CONTRACT NO. 85523				
		DATE - 11/08/10	REVISED -			FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

Existing Structure: Structure Number 101-3018 consists of a four-span, riveted, steel plate girder bridge built in 1950. The existing structure is 462'-0" long and 29'-6" wide. The substructure consists of spill-through concrete abutments and reinforced concrete wall-type piers with footings founded on timber piles. The existing structure shall be completely removed, unless noted otherwise. Kishwaukee Road will be closed during construction.

Salvage: Existing Name Plate to be salvaged and delivered to Winnebago County Highway Dept.

Bench Marks: Railroad spike in power pole Station 83+78.50, 75.30 ft. Rt., Elev. 687.86

LOADING HS25

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

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

1999 AASHTO Guide for the Development of Bicycle Facilities

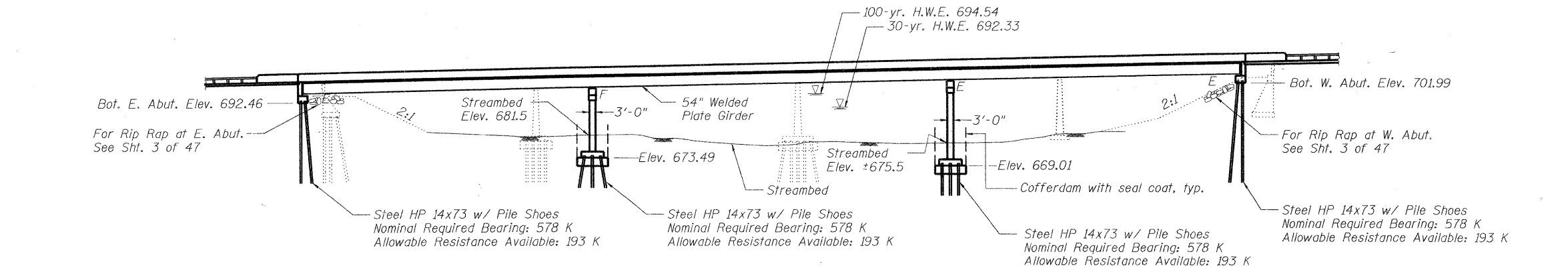
DESIGN STRESSES

FIELD UNITS

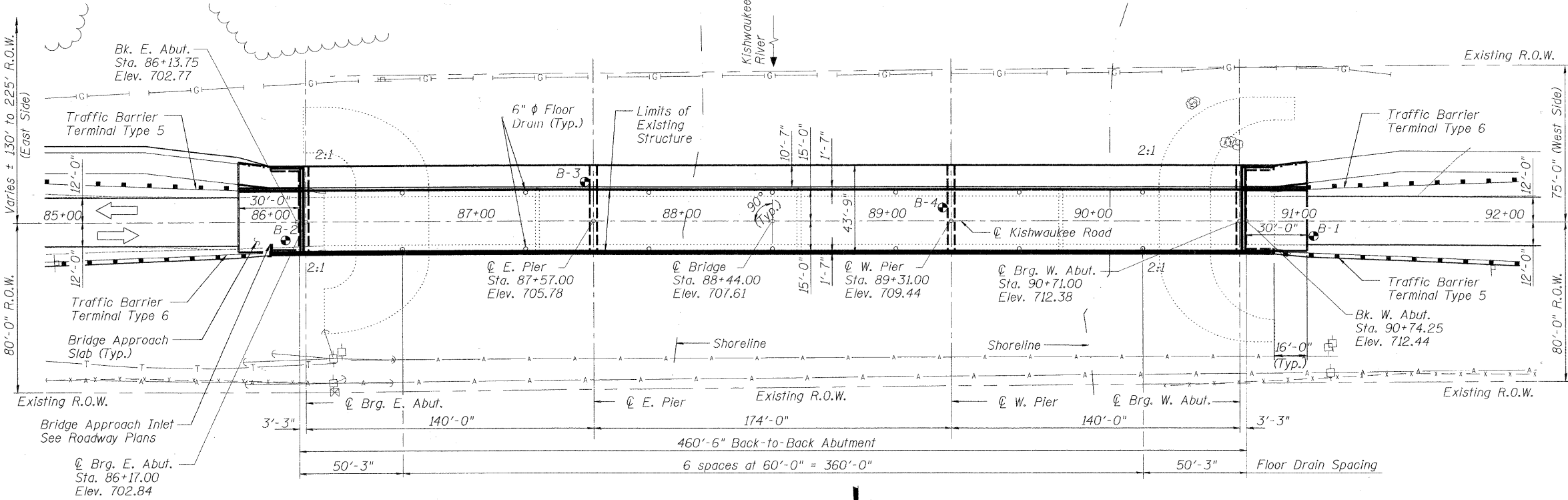
f'c = 3,500 psi
fy = 60,000 psi (reinforcement)
fy = 50,000 psi (AASHTO M270 Gr. 50)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.035g
Site Coefficient (S) = 1.0



ELEVATION



PLAN

WATERWAY INFORMATION

Drainage Area = 1257 sq. mi. Low Grade Elev. 699.21 ft. @ Sta. 83+50									
Flood	Freq. Yr.	Q C.F.S.	Opening Exist.	Sq. Ft. Prop.	Nat. H.W.E.	Head-Ft. Exist.	Head-Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	30	24,200	4895	5023	692.33	-0.10	-0.14	692.23	692.19
Base	100	32,100	5700	5916	694.54	-0.16	-0.23	694.38	694.31

DESIGN SCOUR ELEVATION TABLE

	E. Abut.	E. Pier	W. Pier	W. Abut.
Design Scour Elev. (ft)	692.5	670.5	664.0	702.0

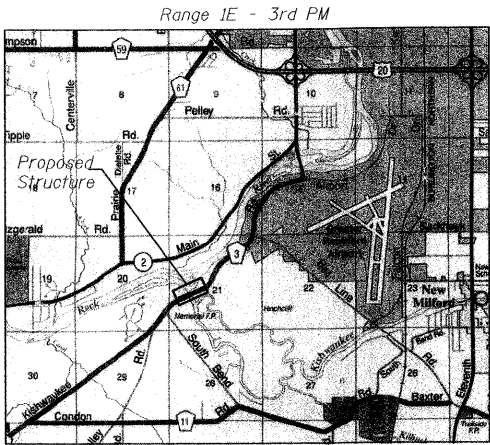
GENERAL PLAN & ELEVATION
STRUCTURE NUMBER 101-3100

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

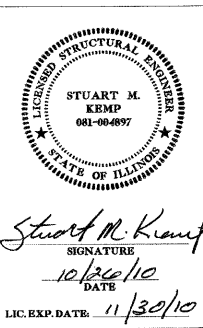


DATE 10/26/10
SHEET NO. 1
47 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	16
CONTRACT NO. 85523				
ILLINOIS FED. AID PROJECT				



LOCATION SKETCH



"I certify that to the best of my 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."

10/27/2010
LAYOUT
DRAWN
REVIEWED
10/25/10
10/26/10
10/26/10

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts $\frac{7}{8}$ " ϕ , holes $\frac{15}{16}$ " ϕ , unless otherwise noted.

Calculated weight of Structural Steel = 856,130 lbs (AASHTO M270 Grade 50)
Calculated weight of Structural Steel = 37,080 lbs (AASHTO M270 Grade 36)

Field welding of construction accessories will not be permitted to beams or girders.

Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch. Adjustment shall be made either by grinding the surface or by shimming the bearing.

Concrete Sealer shall be applied to the abutment backwalls, bridge seats, and front face of caps.

Protective coat shall be applied to the entire top surface of the bridge deck, the top surface of the multi-use path, the top and inside face of the N. Parapet, and the top and both faces of the S. Parapet.

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 steel surfaces shall be reddish brown, Munsell No. 2.5YR 3/4. See Special Provision for Cleaning and Painting New Metal Structures.

The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water, except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to IDNR Floodway Construction permit number 3704 allowing permanent construction as shown on the contract plans.

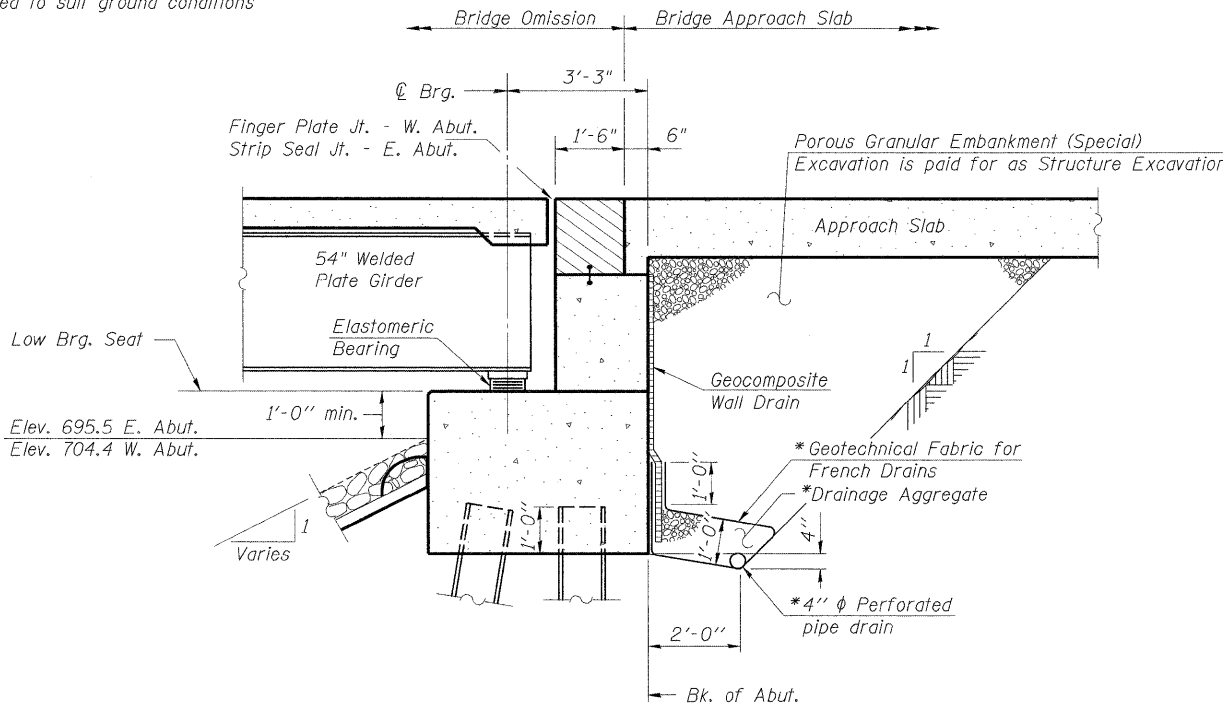
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

INDEX OF SHEETS

- | | | |
|------|-----|--|
| | 1. | General Plan and Elevation |
| | 2. | General Notes and Bridge Bill of Materials |
| | 3. | Slope Protection Plan and Details |
| 4 - | 6. | Top of Bridge Slab Elevations |
| | 7. | Top of Approach Slab Elevations |
| | 8. | Superstructure |
| 9 - | 11. | Superstructure Details |
| 12 - | 13. | Bridge Approach Slab Details |
| | 14. | Strip Seal Expansion Joint |
| 15 - | 17. | Finger Plate Expansion Joint |
| | 18. | Bicycle and Parapet Railing |
| | 19. | Bicycle and Parapet Railing Details |
| | 20. | Structural Steel |
| 21 - | 22. | Structural Steel Details |
| 23 - | 24. | Bearing Details |
| | 25. | East Abutment |
| 26 - | 27. | East Abutment Details |
| | 28. | West Abutment |
| 29 - | 30. | West Abutment Details |
| | 31. | East Pier |
| | 32. | West Pier |
| | 33. | Bar Splicers |
| | 34. | Steel H-Pile Details |
| 35 - | 37. | Boring Logs |
| 38 - | 47. | Existing Bridge Drawings |

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.	—	170.8	170.8
Stone Riprap, Class A4	Sq. Yd.	—	218	218
Stone Riprap, Class A5	Sq. Yd.	—	90	90
Filter Fabric	Sq. Yd.	—	308	308
Removal of Existing Structures	Each	1	—	1
Slope Wall Removal	Sq. Yd.	—	72	72
Structure Excavation	Cu. Yd.	—	330	330
Cofferdam Excavation	Cu. Yd.	—	425.0	425.0
Cofferdams (Pier 1)	Each	—	1	1
Cofferdams (Pier 2)	Each	—	1	1
Floor Drains	Each	14	—	14
Concrete Structures	Cu. Yd.	—	428.7	428.7
Concrete Superstructure	Cu. Yd.	774.1	—	774.1
Seal Coat Concrete	Cu. Yd.	—	151.1	151.1
Bridge Deck Grooving	Sq. Yd.	1601	—	1601
Concrete Encasement	Cu. Yd.	—	15.3	15.3
Protective Coat	Sq. Yd.	2928	—	2928
Furnishing and Erecting Structural Steel	L. Sum	1	—	1
Stud Shear Connectors	Each	4536	—	4536
Reinforcement Bars, Epoxy Coated	Pound	195,160	54,010	249,170
Bar Splicers	Each	—	91	91
Bicycle Railing	Foot	486.6	—	486.6
Parapet Railing	Foot	514.5	—	514.5
Furnishing Steel Piles, HP 14x73	Foot	—	2136	2136
Driving Piles	Foot	—	2136	2136
Test Pile Steel HP 14x73	Each	—	4	4
Pile Shoes	Each	—	65	65
Name Plates	Each	1	—	1
Preformed Joint Strip Seal	Foot	43.8	—	43.8
Finger Plate Expansion Joint 5"	Foot	43.8	—	43.8
Fabric Reinforced Elastomeric Trough	Foot	46.8	—	46.8
Elastomeric Bearing Assembly, Type II	Each	7	—	7
Elastomeric Bearing Assembly, Type III	Each	7	—	7
Anchor Bolts, 1"	Each	—	28	28
Anchor Bolts, 1 1/4"	Each	—	14	14
Anchor Bolts, 1 1/2"	Each	—	14	14
Concrete Sealer	Sq. Ft.	—	1017	1017
Geocomposite Wall Drain	Sq. Yd.	—	77	77
Pipe Underdrains for Structures 4"	Foot	—	184	184
High Load Multi-Rotation Bearings, Guided Expan. 400K	Each	7	—	7



SECTION THRU ABUTMENT

* Included in the cost of Pipe Underdrains for Structures.

Note:

All drainage system components shall extend to the inside face of abutment wingwalls except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

© Copyright Hanson Professional Services Inc. 2010



Hanson Professional Services Inc

JOB NO.

JOB NO.
03R1807

DATE
10/26/10

SHEET NO. 2

47 SHEETS

F.A.U.
RTE.

5103

SECTION

3-00337-00

COUNTY

Winnebago

TOTAL SHEETS	SHEET NO.
--------------	-----------

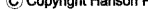
66	17
----	----

CONTRACT NO. 85523

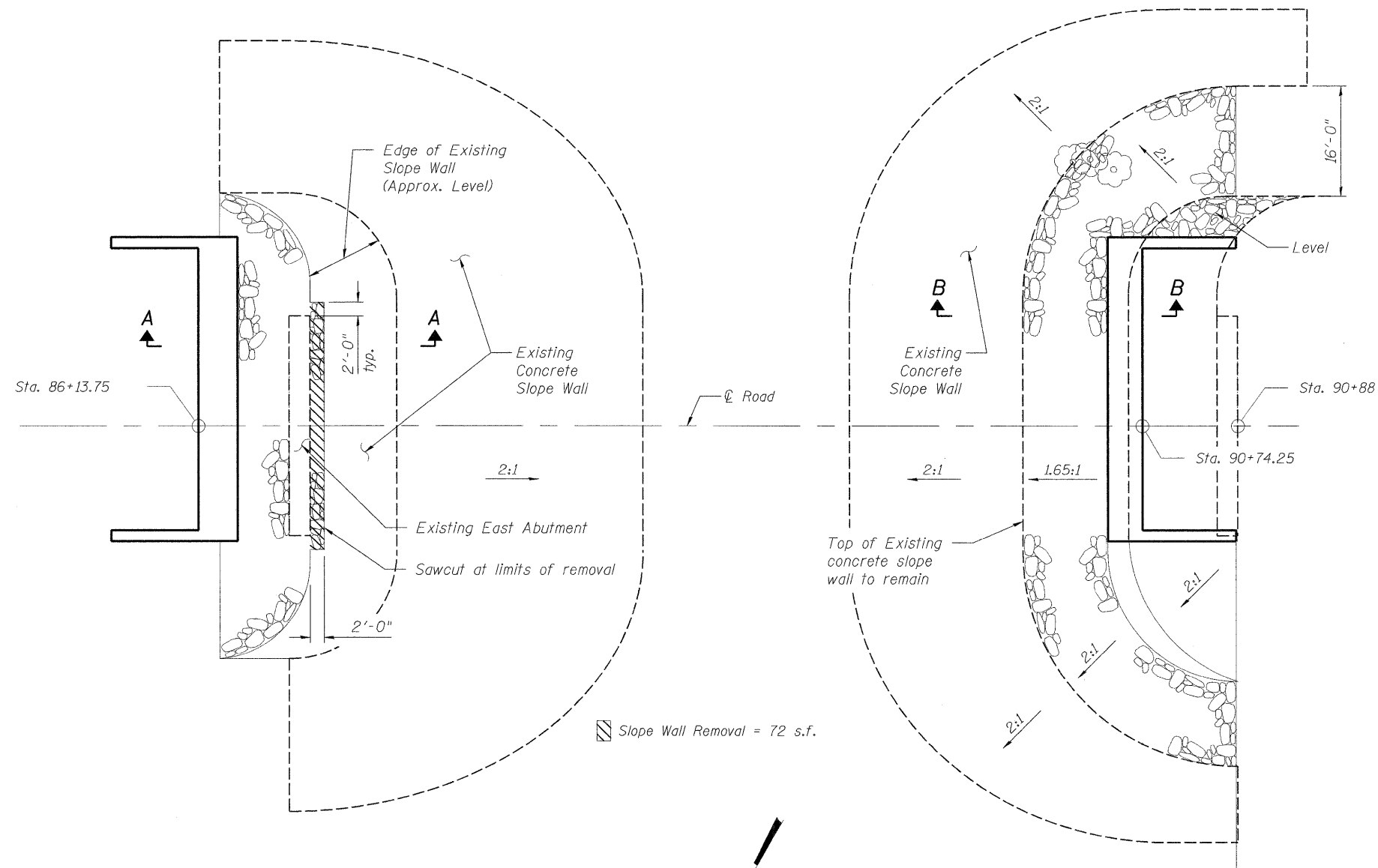
ILLINOIS	FED. AID PROJECT
----------	------------------

GENERAL NOTES & DETAILS

STRUCTURE NUMBER 101-3100

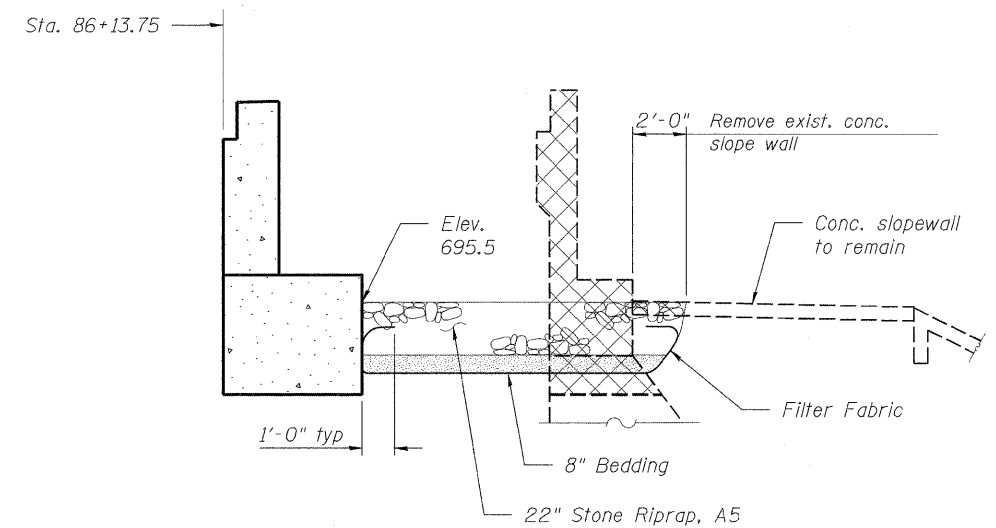
© Copyright Hanson Professional Services Inc. 2010  HANSON Hanson Professional Services Inc.		JOB NO. 03R1807	SHEET NO. 2	F.A.U. RTE. 5103	SECTION 03-00337-00-BR	COUNTY Winnebago	TOTAL SHEETS 66	SHEET NO. 17
DATE 10/26/10		47 SHEETS			CONTRACT NO. 85523			
				ILLINOIS FED. AID PROJECT				

LAYOUT	JKR/SMK	08/23/10
DRAWN	MGM	10/25/10
REVIEWED	JKR/SMK	10/26/10

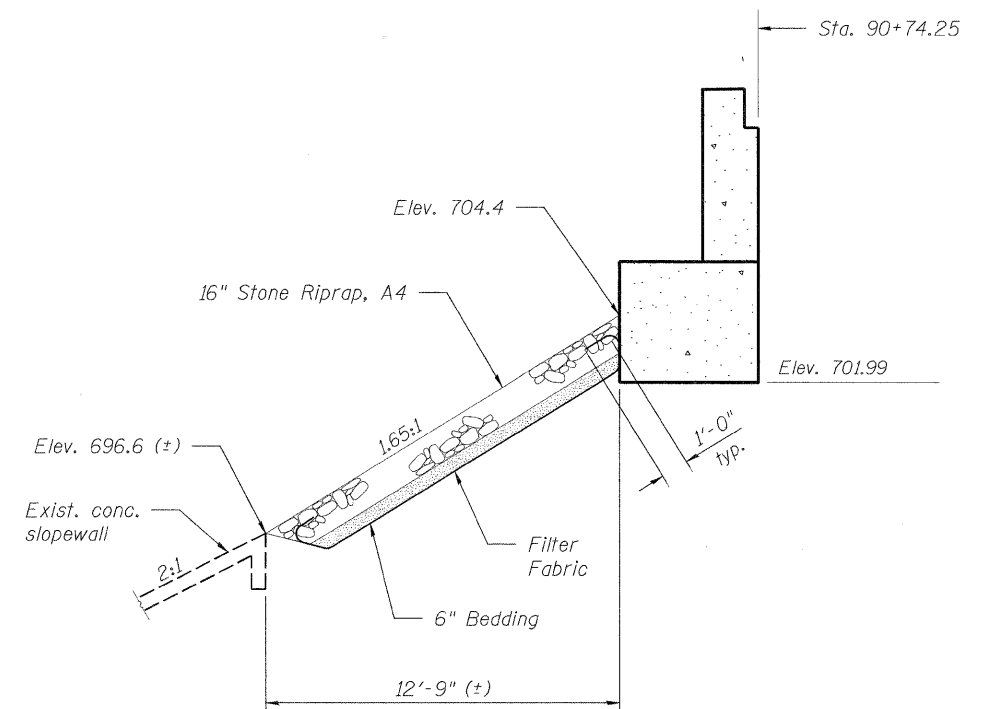


EAST SLOPE PROTECTION PLAN

WEST SLOPE PROTECTION PLAN



SECTION A-A



SECTION B-B

**SLOPE PROTECTION DETAILS
STRUCTURE NUMBER 101-3100**

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

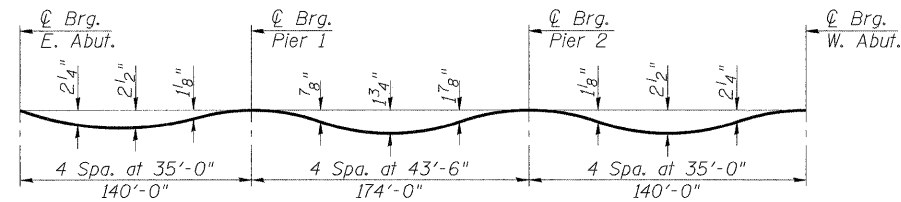
© Copyright Hanson Professional Services Inc. 2010



JOB NO.
03R1807
DATE
10/26/10

SHEET NO. 3
47 SHEETS

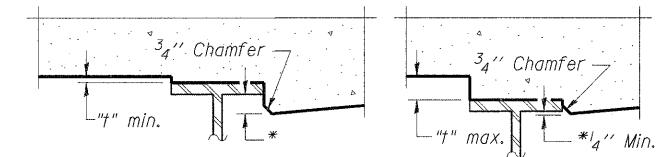
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	18
CONTRACT NO. 85523				
ILLINOIS FED. AID PROJECT				



INTERIOR GIRDER 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 "Theoretical Grade Elevations Adjusted for Dead Load Deflection."

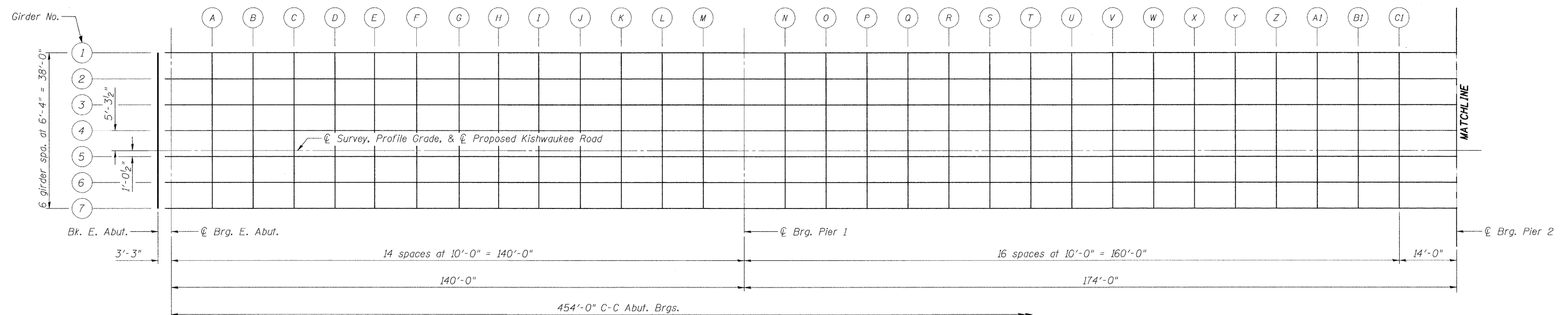


*Variable (not less than 1/4")

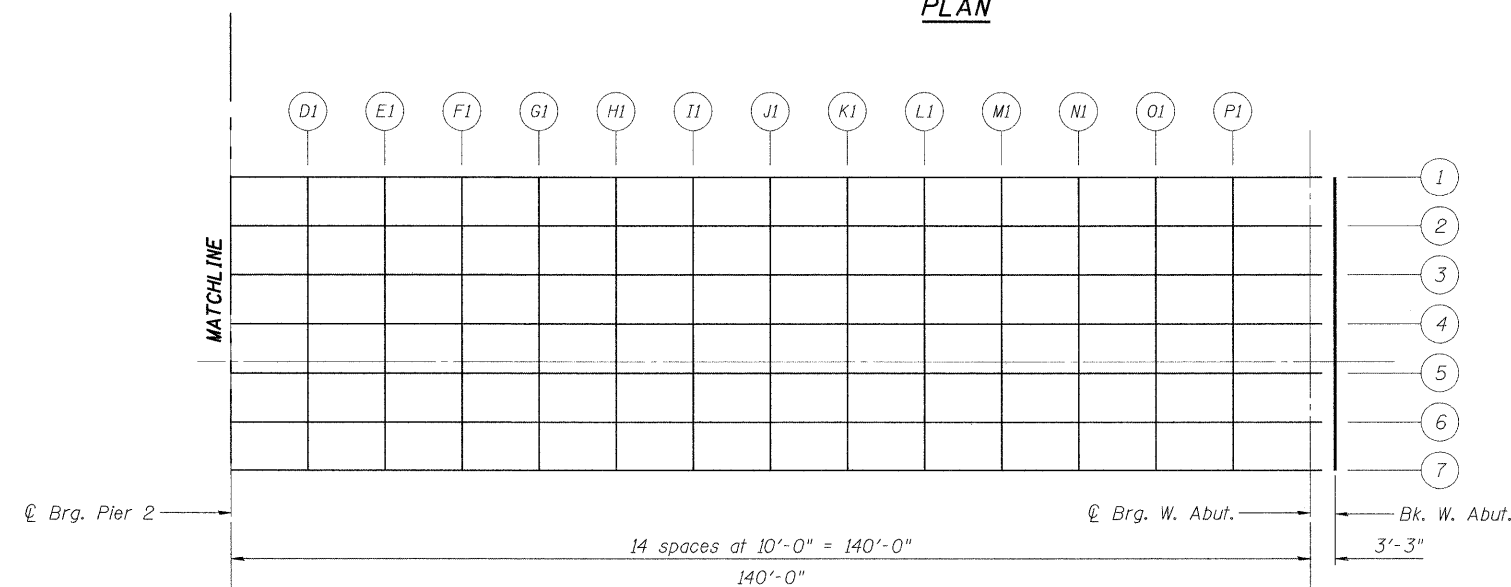
At Minimum Fillet At Maximum Fillet

To determine "f": 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 "f" above top flange of beams.

FILLET HEIGHTS



PLAN



PLAN



TOP OF SLAB ELEVATIONS STRUCTURE NUMBER 101-3100

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

© Copyright Hanson Professional Services Inc. 2010



JOB NO.
03R1807

DATE
10/26/10

SHEET NO. 4

47 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	19
CONTRACT NO. 85523				
ILLINOIS FED. AID PROJECT				

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	86+13.75	-5.29	702.67	702.67
☉ Brg. E. Abut.	86+17.00	-5.29	702.74	702.74
A	86+27.00	-5.29	702.95	703.00
B	86+37.00	-5.29	703.16	703.26
C	86+47.00	-5.29	703.37	703.52
D	86+57.00	-5.29	703.58	703.76
E	86+67.00	-5.29	703.79	703.98
F	86+77.00	-5.29	704.00	704.20
G	86+87.00	-5.29	704.21	704.41
H	86+97.00	-5.29	704.42	704.59
I	87+07.00	-5.29	704.63	704.77
J	87+17.00	-5.29	704.84	704.94
K	87+27.00	-5.29	705.05	705.13
L	87+37.00	-5.29	705.26	705.31
M	87+47.00	-5.29	705.47	705.49
☉ Brg. Pier 1	87+57.00	-5.29	705.68	705.68
N	87+67.00	-5.29	705.89	705.90
O	87+77.00	-5.29	706.10	706.13
P	87+87.00	-5.29	706.31	706.35
Q	87+97.00	-5.29	706.52	706.58
R	88+07.00	-5.29	706.73	706.81
S	88+17.00	-5.29	706.94	707.04
T	88+27.00	-5.29	707.15	707.26
U	88+37.00	-5.29	707.36	707.49
V	88+47.00	-5.29	707.57	707.71
W	88+57.00	-5.29	707.78	707.90
X	88+67.00	-5.29	707.99	708.09
Y	88+77.00	-5.29	708.20	708.29
Z	88+87.00	-5.29	708.41	708.48
A1	88+97.00	-5.29	708.62	708.67
B1	89+07.00	-5.29	708.83	708.87
C1	89+17.00	-5.29	709.04	709.06
☉ Brg. Pier 2	89+31.00	-5.29	709.33	709.33
D1	89+41.00	-5.29	709.54	709.57
E1	89+51.00	-5.29	709.75	709.80
F1	89+61.00	-5.29	709.96	710.04
G1	89+71.00	-5.29	710.17	710.28
H1	89+81.00	-5.29	710.38	710.52
I1	89+91.00	-5.29	710.59	710.76
J1	90+01.00	-5.29	710.80	711.01
K1	90+11.00	-5.29	711.01	711.21
L1	90+21.00	-5.29	711.22	711.41
M1	90+31.00	-5.29	711.43	711.62
N1	90+41.00	-5.29	711.64	711.80
O1	90+51.00	-5.29	711.85	711.96
P1	90+61.00	-5.29	712.06	712.11
☉ Brg. W. Abut.	90+71.00	-5.29	712.27	712.27
Bk. W. Abut.	90+74.25	-5.29	712.34	712.34

ILLINOIS	FED. AID PROJECT
----------	------------------

LAYOUT
DRAWN
REVIEWED

10/26/2010
11/03/10

☪ SURVEY, PROFILE GRADE &
☪ PROPOSED KISHWAUKEE ROAD

GIRDER 5

GIRDER 6

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut	86+13.75	0.00	702.77	702.77
☪ Brg. E. Abut.	86+17.00	0.00	702.84	702.84
A	86+27.00	0.00	703.05	703.11
B	86+37.00	0.00	703.26	703.37
C	86+47.00	0.00	703.47	703.63
D	86+57.00	0.00	703.68	703.87
E	86+67.00	0.00	703.89	704.09
F	86+77.00	0.00	704.10	704.30
G	86+87.00	0.00	704.31	704.52
H	86+97.00	0.00	704.52	704.70
I	87+07.00	0.00	704.73	704.87
J	87+17.00	0.00	704.94	705.05
K	87+27.00	0.00	705.15	705.23
L	87+37.00	0.00	705.36	705.41
M	87+47.00	0.00	705.57	705.60
☪ Brg. Pier 1	87+57.00	0.00	705.78	705.78
N	87+67.00	0.00	705.99	706.01
O	87+77.00	0.00	706.20	706.23
P	87+87.00	0.00	706.41	706.46
Q	87+97.00	0.00	706.62	706.69
R	88+07.00	0.00	706.83	706.91
S	88+17.00	0.00	707.04	707.14
T	88+27.00	0.00	707.25	707.37
U	88+37.00	0.00	707.46	707.60
V	88+47.00	0.00	707.67	707.82
W	88+57.00	0.00	707.88	708.01
X	88+67.00	0.00	708.09	708.20
Y	88+77.00	0.00	708.30	708.39
Z	88+87.00	0.00	708.51	708.58
A1	88+97.00	0.00	708.72	708.78
B1	89+07.00	0.00	708.93	708.97
C1	89+17.00	0.00	709.14	709.16
☪ Brg. Pier 2	89+31.00	0.00	709.44	709.44
D1	89+41.00	0.00	709.65	709.67
E1	89+51.00	0.00	709.86	709.91
F1	89+61.00	0.00	710.07	710.14
G1	89+71.00	0.00	710.28	710.38
H1	89+81.00	0.00	710.49	710.63
I1	89+91.00	0.00	710.70	710.87
J1	90+01.00	0.00	710.91	711.11
K1	90+11.00	0.00	711.12	711.32
L1	90+21.00	0.00	711.33	711.52
M1	90+31.00	0.00	711.54	711.72
N1	90+41.00	0.00	711.75	711.90
O1	90+51.00	0.00	711.96	712.06
P1	90+61.00	0.00	712.17	712.22
☪ Brg. W. Abut.	90+71.00	0.00	712.38	712.38
Bk. W. Abut.	90+74.25	0.00	712.44	712.44

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut	86+13.75	1.04	702.75	702.75
☪ Brg. E. Abut.	86+17.00	1.04	702.82	702.82
A	86+27.00	1.04	703.03	703.08
B	86+37.00	1.04	703.24	703.35
C	86+47.00	1.04	703.45	703.61
D	86+57.00	1.04	703.66	703.85
E	86+67.00	1.04	703.87	704.07
F	86+77.00	1.04	704.08	704.28
G	86+87.00	1.04	704.29	704.50
H	86+97.00	1.04	704.50	704.68
I	87+07.00	1.04	704.71	704.85
J	87+17.00	1.04	704.92	705.03
K	87+27.00	1.04	705.13	705.21
L	87+37.00	1.04	705.34	705.39
M	87+47.00	1.04	705.55	705.58
☪ Brg. Pier 1	87+57.00	1.04	705.76	705.76
N	87+67.00	1.04	705.97	705.99
O	87+77.00	1.04	706.18	706.21
P	87+87.00	1.04	706.39	706.44
Q	87+97.00	1.04	706.60	706.67
R	88+07.00	1.04	706.81	706.89
S	88+17.00	1.04	707.02	707.12
T	88+27.00	1.04	707.23	707.35
U	88+37.00	1.04	707.44	707.58
V	88+47.00	1.04	707.65	707.80
W	88+57.00	1.04	707.86	707.99
X	88+67.00	1.04	708.07	708.18
Y	88+77.00	1.04	708.28	708.37
Z	88+87.00	1.04	708.49	708.56
A1	88+97.00	1.04	708.70	708.76
B1	89+07.00	1.04	708.91	708.95
C1	89+17.00	1.04	709.12	709.14
☪ Brg. Pier 2	89+31.00	1.04	709.42	709.42
D1	89+41.00	1.04	709.63	709.65
E1	89+51.00	1.04	709.84	709.89
F1	89+61.00	1.04	710.05	710.12
G1	89+71.00	1.04	710.26	710.36
H1	89+81.00	1.04	710.47	710.61
I1	89+91.00	1.04	710.68	710.85
J1	90+01.00	1.04	710.89	711.09
K1	90+11.00	1.04	711.10	711.30
L1	90+21.00	1.04	711.31	711.50
M1	90+31.00	1.04	711.52	711.70
N1	90+41.00	1.04	711.73	711.88
O1	90+51.00	1.04	711.94	712.04
P1	90+61.00	1.04	712.15	712.20
☪ Brg. W. Abut.	90+71.00	1.04	712.36	712.36
Bk. W. Abut.	90+74.250	1.04	712.42	712.42

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut	86+13.75	7.38	702.63	702.63
☪ Brg. E. Abut.	86+17.00	7.38	702.70	702.70
A	86+27.00	7.38	702.90	702.96
B	86+37.00	7.38	703.12	703.22
C	86+47.00	7.38	703.33	703.48
D	86+57.00	7.38	703.53	703.72
E	86+67.00	7.38	703.75	703.94
F	86+77.00	7.38	703.96	704.16
G	86+87.00	7.38	704.16	704.37
H	86+97.00	7.38	704.38	704.55
I	87+07.00	7.38	704.58	704.73
J	87+17.00	7.38	704.79	704.90
K	87+27.00	7.38	705.01	705.08
L	87+37.00	7.38	705.21	705.27
M	87+47.00	7.38	705.42	705.45
☪ Brg. Pier 1	87+57.00	7.38	705.64	705.64
N	87+67.00	7.38	705.84	705.86
O	87+77.00	7.38	706.06	706.09
P	87+87.00	7.38	706.27	706.31
Q	87+97.00	7.38	706.47	706.54
R	88+07.00	7.38	706.69	706.77
S	88+17.00	7.38	706.89	706.99
T	88+27.00	7.38	707.10	707.22
U	88+37.00	7.38	707.32	707.45
V	88+47.00	7.38	707.52	707.67
W	88+57.00	7.38	707.73	707.86
X	88+67.00	7.38	707.95	708.05
Y	88+77.00	7.38	708.15	708.24
Z	88+87.00	7.38	708.37	708.44
A1	88+97.00	7.38	708.58	708.63
B1	89+07.00	7.38	708.78	708.82
C1	89+17.00	7.38	709.00	709.02
☪ Brg. Pier 2	89+31.00	7.38	709.29	709.29
D1	89+41.00	7.38	709.50	709.53
E1	89+51.00	7.38	709.71	709.76
F1	89+61.00	7.38	709.92	710.00
G1	89+71.00	7.38	710.13	710.24
H1	89+81.00	7.38	710.34	710.48
I1	89+91.00	7.38	710.55	710.72
J1	90+01.00	7.38	710.76	710.97
K1	90+11.00	7.38	710.97	711.17
L1	90+21.00	7.38	711.18	711.37
M1	90+31.00	7.38	711.39	711.58
N1	90+41.00	7.38	711.60	711.76
O1	90+51.00	7.38	711.81	711.91
P1	90+61.00	7.38	712.02	712.07
☪ Brg. W. Abut.	90+71.00	7.38	712.23	712.23
Bk. W. Abut.	90+74.25	7.38	712.30	712.30

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut	86+13.75	13.71	702.50	702.50
☪ Brg. E. Abut.	86+17.00	13.71	702.57	702.57
A	86+27.00	13.71	702.78	702.83
B	86+37.00	13.71	702.99	703.09
C	86+47.00	13.71	703.20	703.36
D	86+57.00	13.71	703.41	703.60
E	86+67.00	13.71	703.62	703.81
F	86+77.00	13.71	703.83	704.03
G	86+87.00	13.71	704.04	704.25
H	86+97.00	13.71	704.25	704.42
I	87+07.00	13.71	704.46	704.60
J	87+17.00	13.71	704.67	704.78
K	87+27.00	13.71	704.88	704.96
L	87+37.00	13.71	705.09	705.14
M	87+47.00	13.71	705.30	705.32
☪ Brg. Pier 1	87+57.00	13.71	705.51	705.51
N	87+67.00	13.71	705.72	705.73
O	87+77.00	13.71	705.93	705.96
P	87+87.00	13.71	706.14	706.19
Q	87+97.00	13.71	706.35	706.41
R	88+07.00	13.71	706.56	706.64
S	88+17.00	13.71	706.77	706.87
T	88+27.00	13.71	706.98	707.10
U	88+37.00	13.71	707.19	707.32
V	88+47.00	13.71	707.40	707.54
W	88+57.00	13.71	707.61	707.73
X	88+67.00	13.71	707.82	707.93
Y	88+77.00	13.71	708.03	708.12
Z	88+87.00	13.71	708.24	708.31
A1	88+97.00	13.71	708.45	708.50
B1	89+07.00	13.71	708.66	708.70
C1	89+17.00	13.71	708.87	708.89
☪ Brg. Pier 2	89+31.00	13.71	709.16	709.16
D1	89+41.00	13.71	709.37	709.40
E1	89+51.00	13.71	709.58	709.63
F1	89+61.00	13.71	709.79	709.87
G1	89+71.00	13.71	710.00	710.11
H1	89+81.00	13.71	710.21	710.35
I1	89+91.00	13.71	710.42	710.60
J1	90+01.00	13.71	710.63	710.84
K1	90+11.00	13.71	710.84	711.04
L1	90+21.00	13.71	711.05	711.25
M1	90+31.00	13.71	711.26	711.45
N1	90+41.00	13.71	711.47	711.63
O1	90+51.00	13.71	711.68	711.79
P1	90+61.00	13.71	711.89	711.94
☪ Brg. W. Abut.	90+71.00	13.71	712.10	712.10
Bk. W. Abut.	90+74.25	13.71	712.17	712.17

TOP OF SLAB ELEVATIONS
STRUCTURE NUMBER 101-3100

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

© Copyright Hanson Professional Services Inc. 2010



JOB NO.
03R1807

DATE
10/26/10

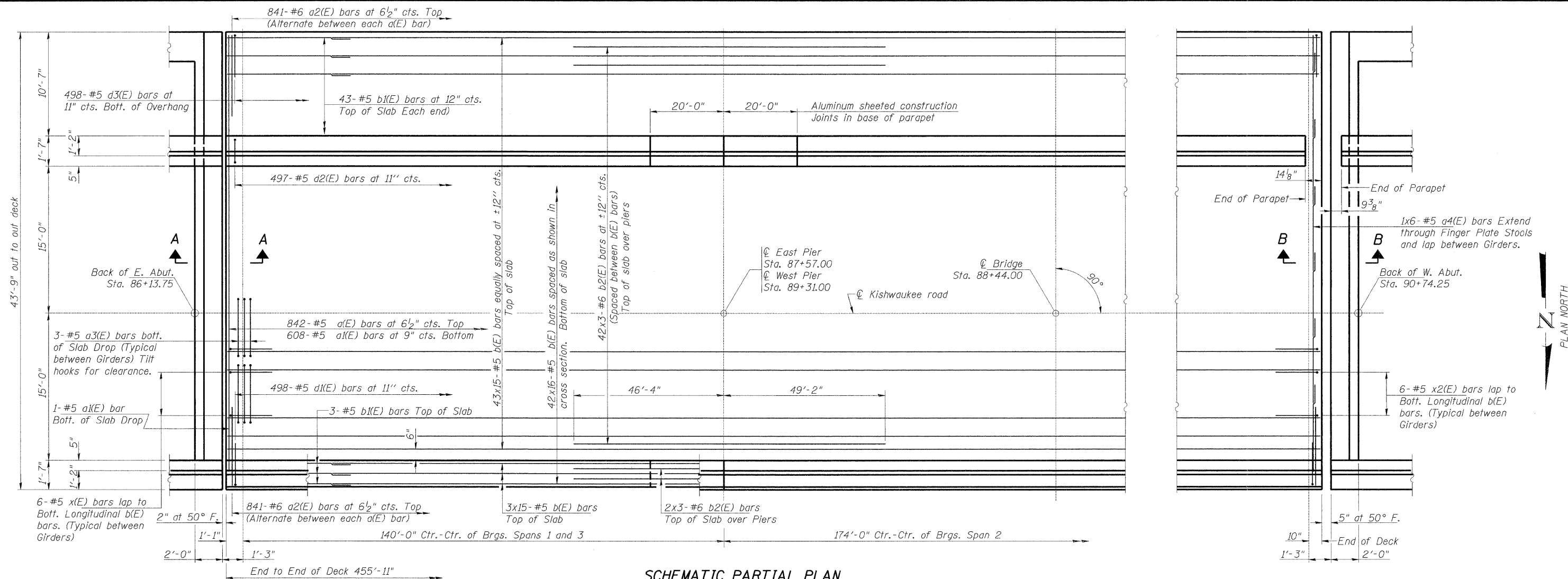
SHEET NO. 6

47 SHEETS

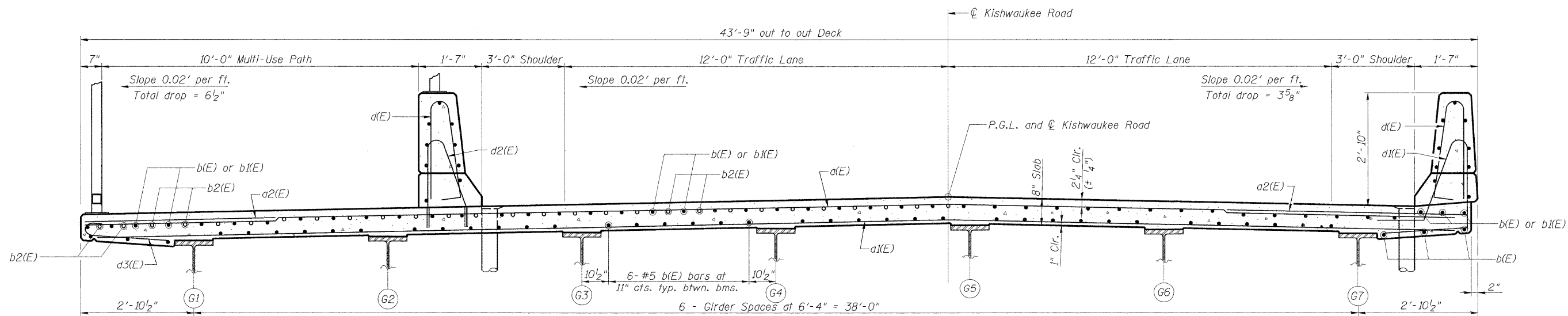
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	21
CONTRACT NO.				85523
ILLINOIS FED. AID PROJECT				



LAYOUT	JKR/SMK	08/23/10
DRAWN	MGM	10/25/10
REVIEWED	JKR/SMK	10/26/10



SCHEMATIC PARTIAL PLAN



CROSS SECTION
(Looking Upstation)

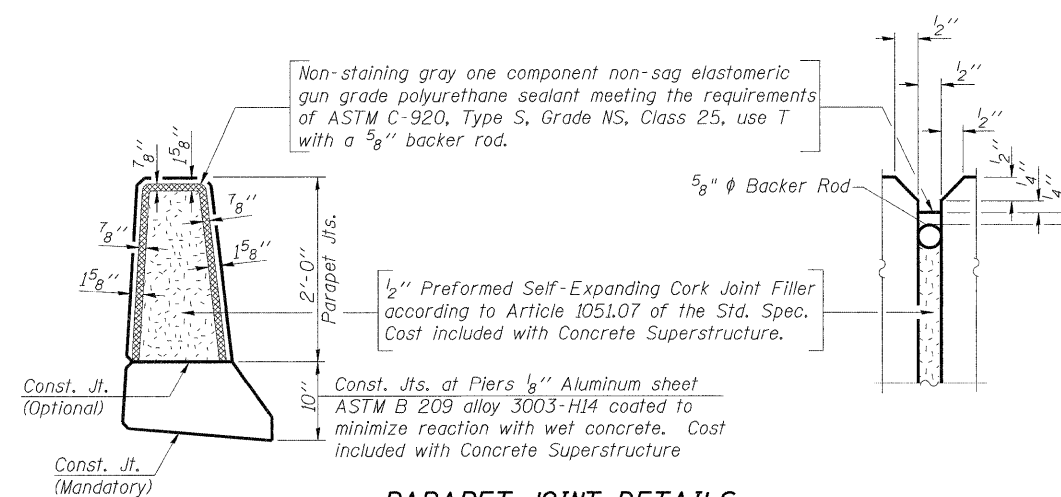
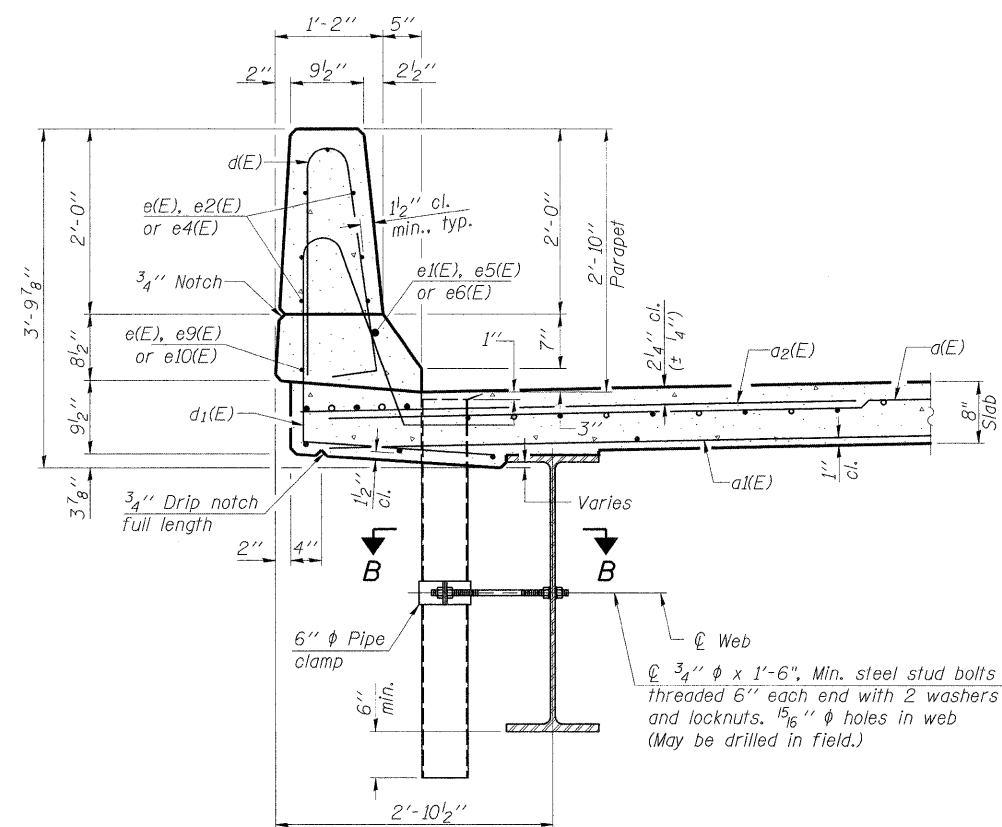
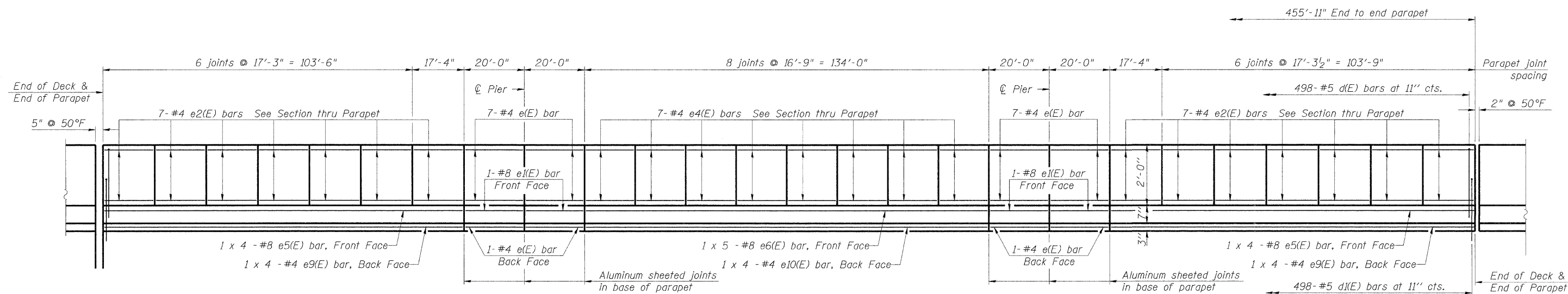
Notes:
See Sheet 11 of 47 for Sections 'A'- 'A' & 'B'- 'B',
Bar Bends and Bill of Material.
Bars indicated thus 40 x 3- #6 etc. indicates
40 lines of bars with 3 lengths per line.
See Sheets 9 & 10 of 47 for parapet reinforcement.
Dimensions are based on a Rolled Rail Strip Seal
Joint. If the Contractor elects to use the Welded
Rail Strip Seal Joint, deck dimensions may require
adjustments to satisfy the details on Base Sheet
EJ-SSJ, Sheet 14 of 47.

MIN BAR LAP
#5 - 2'-7"
#6 - 3'-1"

**SUPERSTRUCTURE
STRUCTURE NUMBER 101-3100**

PROFESSIONAL DESIGN FIRM LICENSE #184-001084										STRUCTURE NUMBER 101-5100									
© Copyright Hanson Professional Services Inc. 2010				JOB NO. 03R1807		SHEET NO. 8		F.A.U. RTE.		SECTION				COUNTY		TOTAL SHEETS		SHEET NO.	
 HANSON Hanson Professional Services Inc.				DATE 10/26/10		47 SHEETS		5103		03-00337-00-BR				Winnebago		66		23	
												CONTRACT NO. 85523							
										ILLINOIS		FED. AID PROJECT							

10/26/2010
 LAYOUT: JKR/SWK 08/23/10
 DRAWN: MCM 10/25/10
 REVIEWED: JKR/SWK 10/26/10



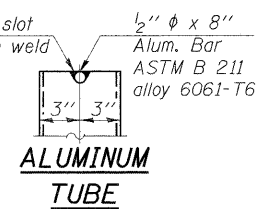
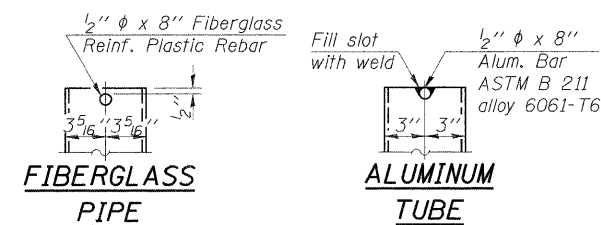
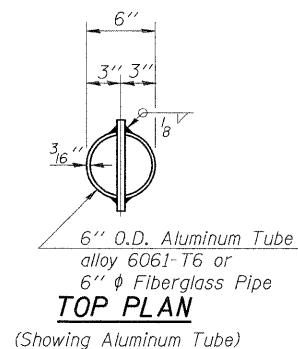
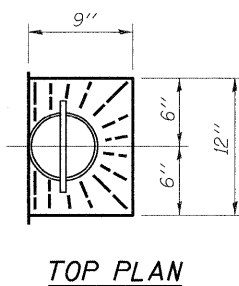
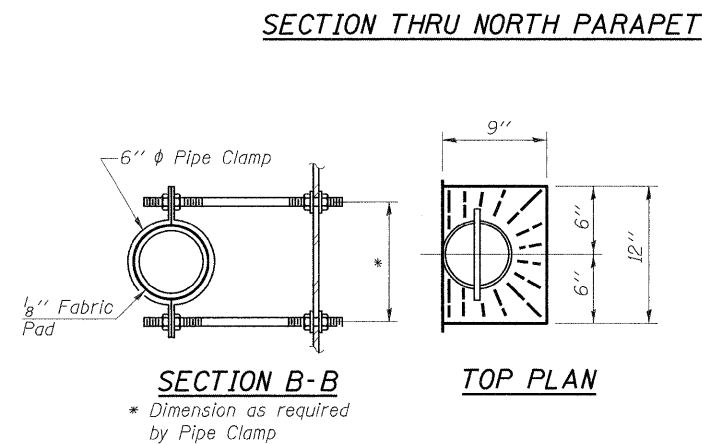
Notes:

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 the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coatings' Spec. SSPC-SPI 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.

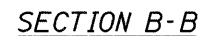
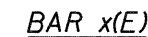
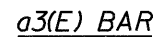
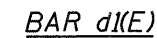
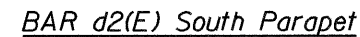
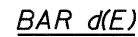
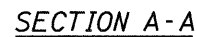


MINIMUM BAR LAP

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

SUPERSTRUCTURE DETAILS
STRUCTURE NUMBER 101-3100

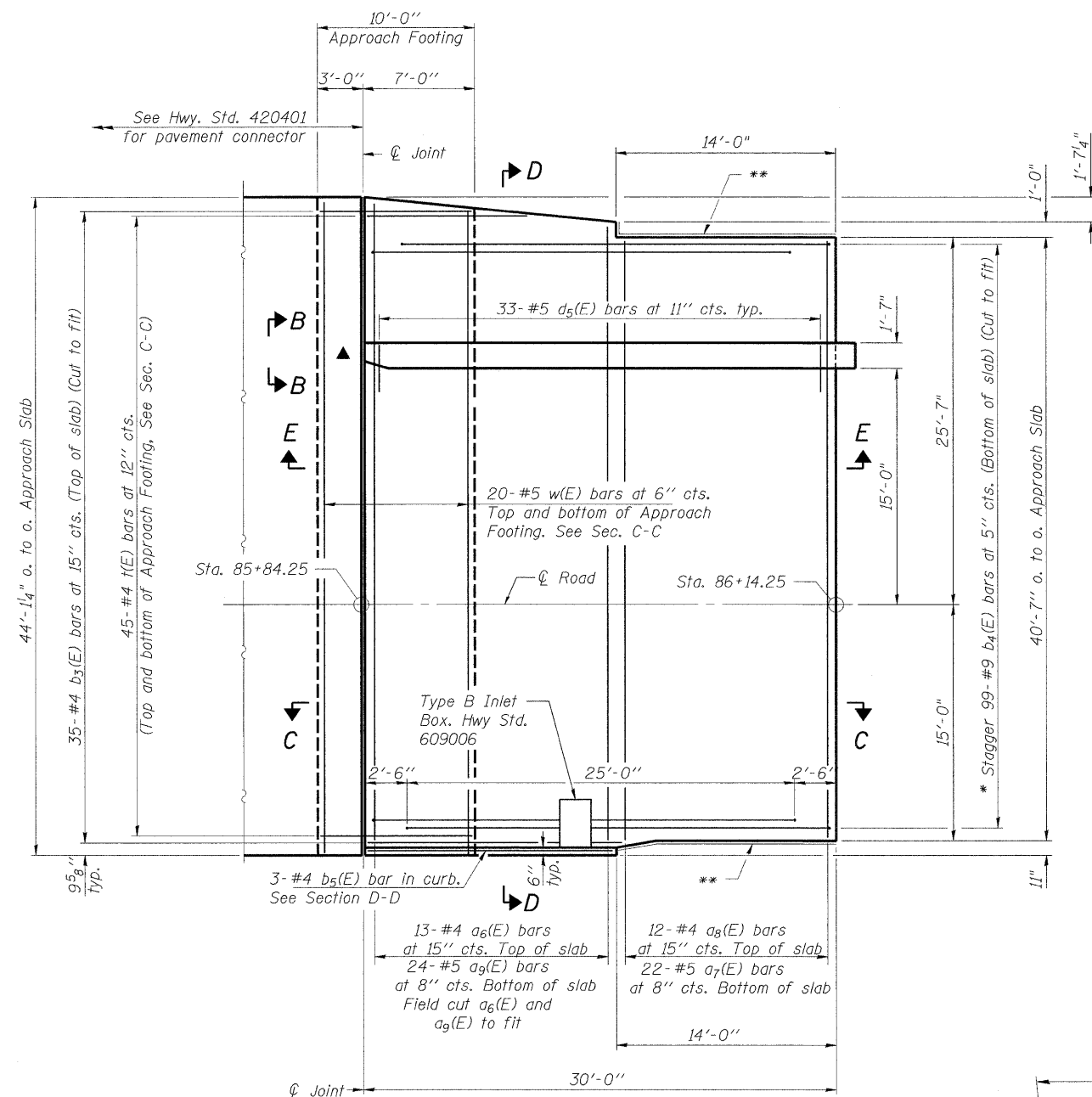
PROFESSIONAL DESIGN FIRM LICENSE #184-001084 © Copyright Hanson Professional Services Inc. 2010  HANSON Hanson Professional Services Inc.		JOB NO. 03R1807	SHEET NO. 10	F.A.U. RTE. 5103	SECTION 03-00337-00-BR	COUNTY Winnebago	TOTAL SHEETS 66	SHEE NO. 25
DATE 10/26/10		47 SHEETS			CONTRACT NO. 85523			
				ILLINOIS FED. AID PROJECT				



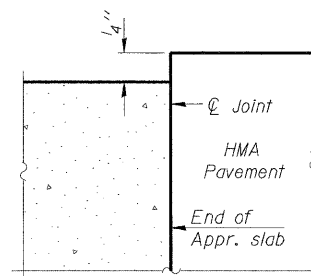
Bar	No.	Size	Length	Shape
a1(E)	842	#5	43'-3"	_____
a1(E)	609	#5	43'-0"	_____
a2(E)	1682	#6	6'-6"	_____
a3(E)	18	#5	7'-3"	
a4(E)	6	#5	8'-11"	_____
a5(E)				Not Used
b(E)	1362	#5	30'-11"	_____
b1(E)	92	#5	16'-7"	_____
b2(E)	264	#6	33'-11"	_____
d(E)	995	#5	5'-7"	
d1(E)	498	#5	7'-5"	
d2(E)	497	#5	4'-8"	
d3(E)	498	#5	2'-6"	
e(E)	64	#4	19'-8"	_____
e1(E)	8	#8	19'-8"	_____
e2(E)	147	#4	17'-1"	_____
e3(E)	49	#4	16'-10"	_____
e4(E)	112	#4	16'-6"	_____
e5(E)	12	#8	34'-3"	_____
e6(E)	10	#8	31'-0"	_____
e7(E)	4	#8	33'-11"	_____
e8(E)	4	#4	31'-4"	_____
e9(E)	12	#4	32'-0"	_____
e10(E)	8	#4	35'-2"	_____
x(E)	36	#5	6'-5"	
x1(E)				Not Used
x2(E)	36	#5	5'-0"	
Reinforcement Bars, Epoxy Coated			Pound	162,200
Concrete Superstructure			Cu. Yds.	639.8
Bridge Deck Grooving			Sq. Yds.	1414
Protective Coat			Sq. Yds.	2584
Floor Drains			Each	14

SUPERSTRUCTURE DETAILS
STRUCTURE NUMBER 101-3100

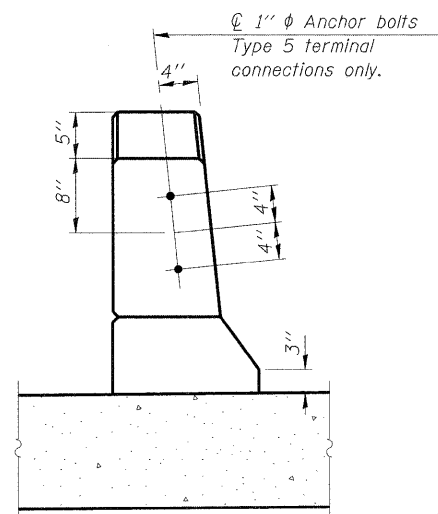
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	26
		CONTRACT NO. 85523		
ILLINOIS		FED. AID PROJECT		



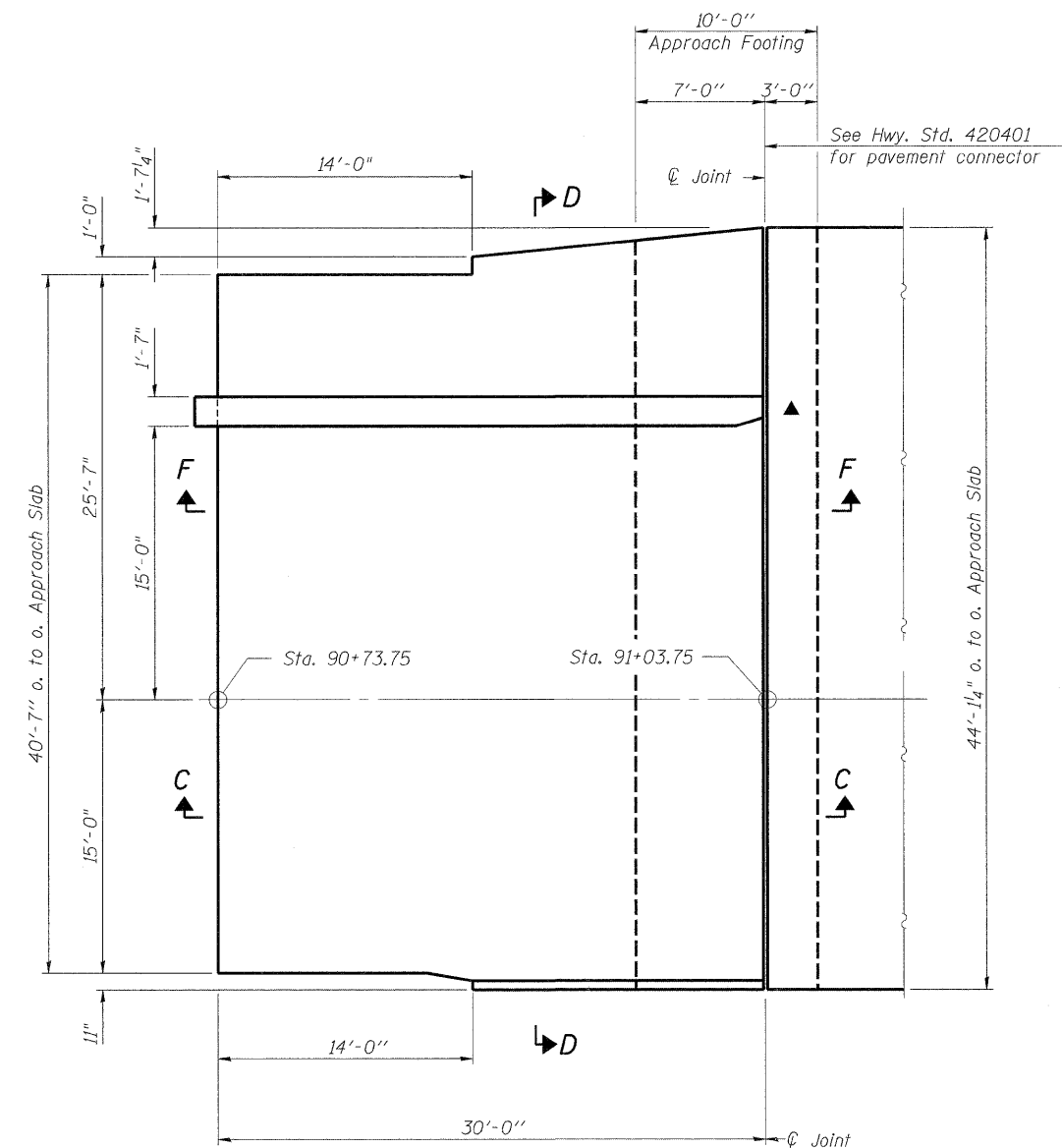
- * Tilt #9 b₄(E) bars as required to maintain clearance.
- ** Closed cell joint filler.
- ▲ Notch sleeper pad as required to facilitate the installation of the terminal barrier posts.



FLEXIBLE PAVEMENT
DETAIL A



VIEW B-B



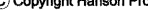
WEST APPROACH PLAN
(For reinf. see East Approach Plan)

Notes:
See sheet 13 of 47 for Sections C-C & D-D and Views E-E & F-F.
Omit Type B Inlet in West Approach.

BRIDGE APPROACH SLAB PLAN
STRUCTURE NUMBER 101-3100

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

© Copyright Hanson Professional Services Inc. 2010



HANSON

Hanson Professional Services Inc.

JOB NO.
03R1807

DATE
10/26/10

SHEET NO. 12

47 SHEETS

F.A.U.
RTE.
5103

SECTION
03-00337-00-BR

COUNTY
Winnebago

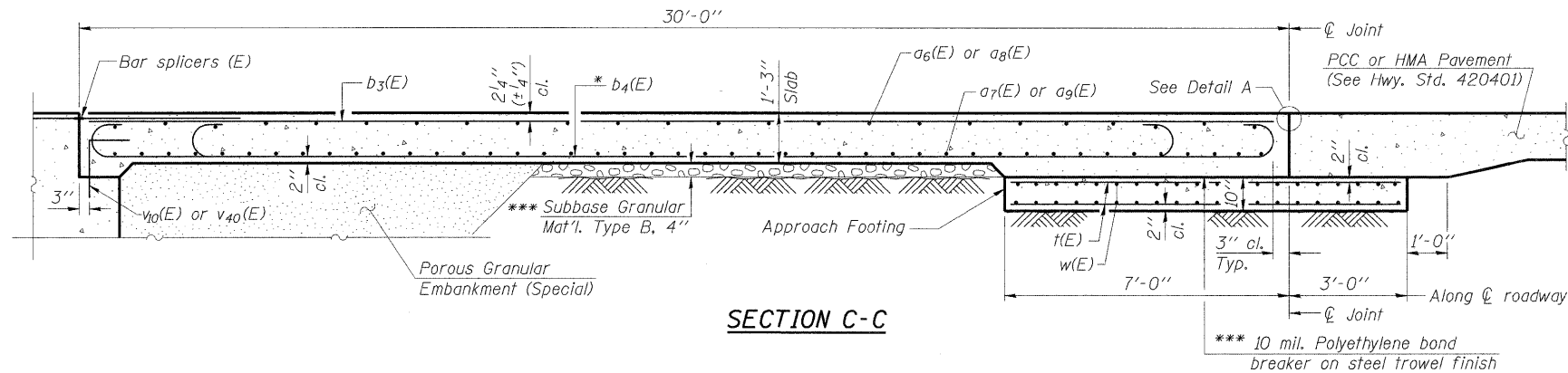
CONTRACT NO. 85523

ILLINOIS

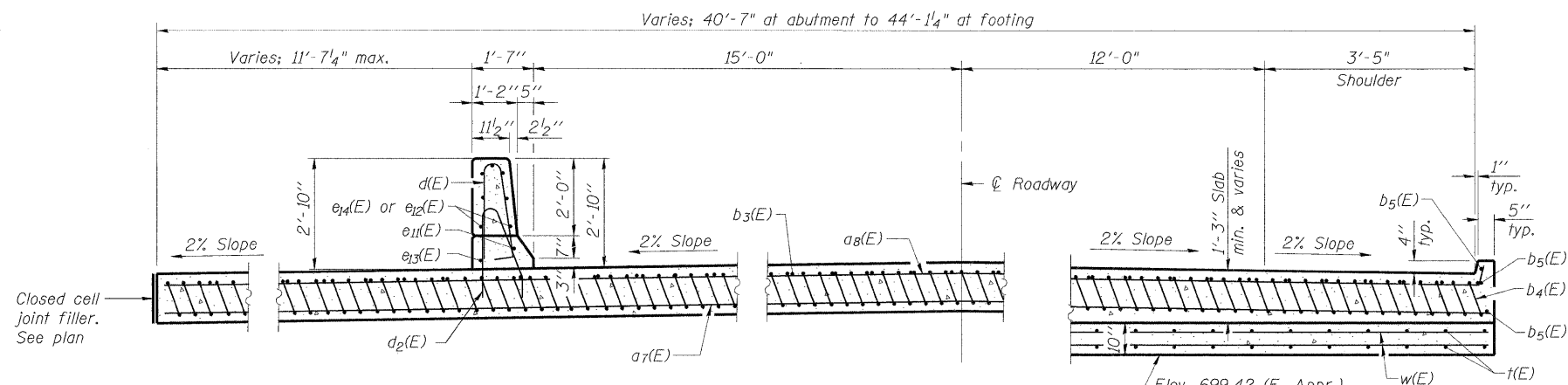
FED. AID PROJECT

TOTAL
SHEETS
66

SHEET
NO.
27



SECTION C-C



NEAR ABUTMENT

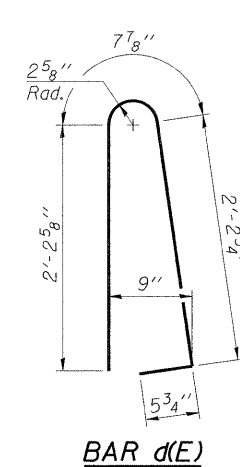
SECTION D-D

(See Plan for dimensions not shown)

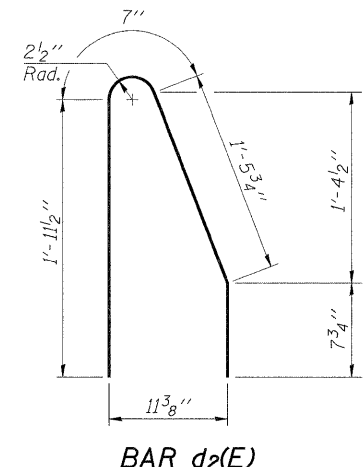
Elev. 699.42 (E. Appr.)
Elev. 710.27 (W. Appr.)
(Level out to out)
AT APPROACH FOOTING

Notes:

See sheet 12 of 47 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 $v_{10}(E)$ or $v_{40}(E)$ bar details, see sheets 27 and 30 of 47.
The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
For bar splicer details, see sheet 33 of 47.
Cost of excavation for approach footing included with Concrete Structures.
For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 47.
For additional parapet details, see sheets 9 and 10 of 47.



BAR d(E)



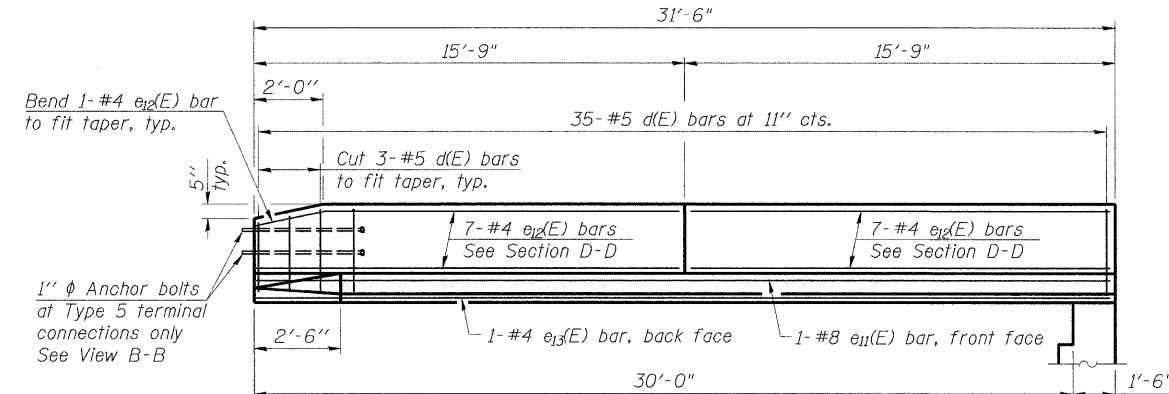
BAR d2(E)

* Tilt #9 $b_4(E)$ bars as required to maintain clearance.

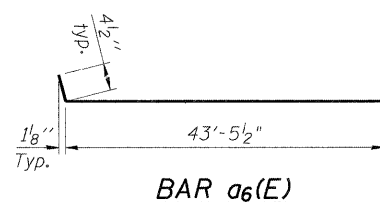
*** Cost included with Concrete Superstructure.

**TWO APPROACHES
BILL OF MATERIAL**

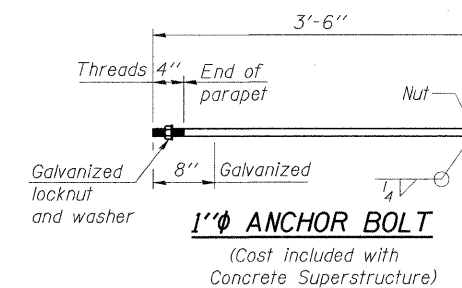
Bar	No.	Size	Length	Shape
$a_6(E)$	26	#4	43'-10"	
$a_7(E)$	44	#5	40'-3"	
$a_8(E)$	24	#4	40'-3"	
$a_9(E)$	48	#5	43'-9"	
$b_3(E)$	70	#4	29'-8"	
$b_4(E)$	198	#9	29'-9"	
$b_5(E)$	6	#4	15'-8"	
$d(E)$	70	#5	5'-7"	
$d_2(E)$	66	#5	4'-8"	
$e_{11}(E)$	2	#8	31'-3"	
$e_{12}(E)$	14	#4	15'-6"	
$e_{13}(E)$	2	#4	31'-3"	
$e_{14}(E)$	14	#4	15'-1"	
$t(E)$	180	#4	9'-8"	
$w(E)$	80	#5	43'-9"	
Concrete Superstructure		Cu. Yd.	134.3	
Concrete Structures		Cu. Yd.	27.0	
Reinforcement Bars, Epoxy Coated		Pound	32,960	
Bridge Deck Grooving		Sq. Yd.	187	
Protective Coat		Sq. Yd.	344	



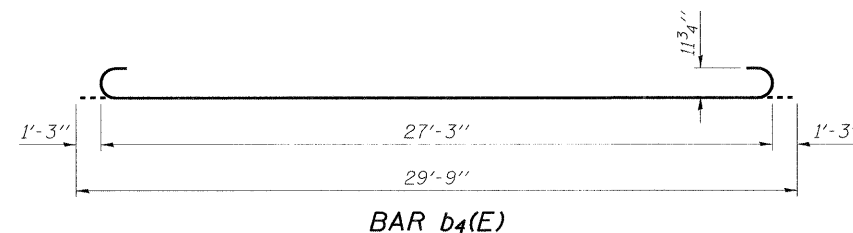
VIEW E-E



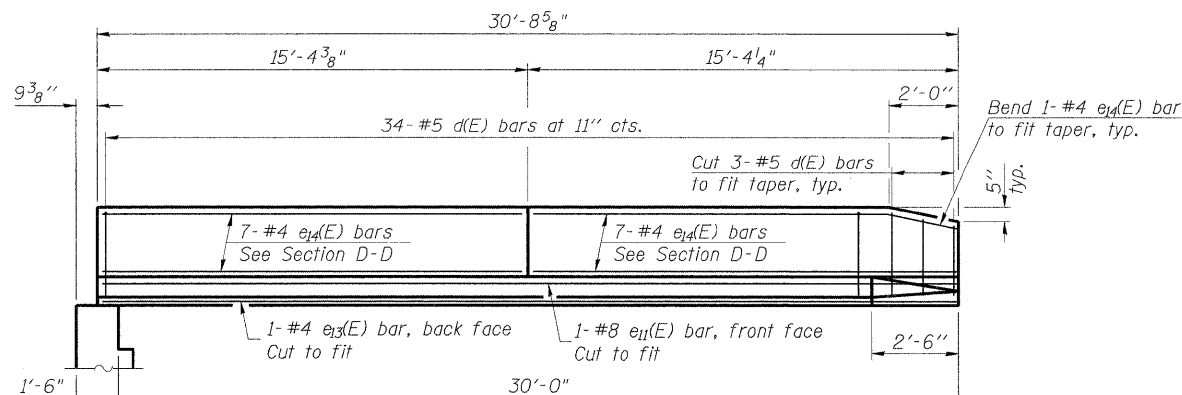
BAR a6(E)



1" ANCHOR BOLT
(Cost included with Concrete Superstructure)



BAR b4(E)



VIEW F-F

**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NUMBER 101-3100**

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

© Copyright Hanson Professional Services Inc. 2010



JOB NO.

03R1807

DATE

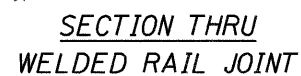
10/26/10

SHEET NO. 13

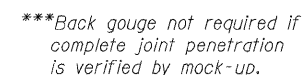
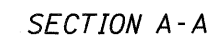
47 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	28
			CONTRACT NO.	85523
			ILLINOIS FED. AID PROJECT	

LAYOUT	JKR/SMK/08/23/10	10-26-2010	10-03-2009
DRAWN	MGM	10/25/10	10-03-2009
REVIEWED	JKR/SMK	10/26/10	10-03-2009



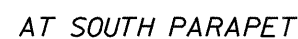
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.



WELDED RAIL

The inside of the locking edge rail groove shall be free of weld residue.

LOCKING EDGE RAILS



PREFORMED JOINT STRIP SEAL
STRUCTURE NUMBER 101-3100

<u>BILL OF MATERIAL</u>		
<i>Item</i>	<i>Unit</i>	<i>Total</i>
<i>Preformed Joint Strip Seal</i>	<i>Foot</i>	<i>43.8</i>

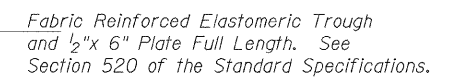
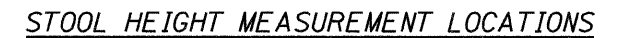
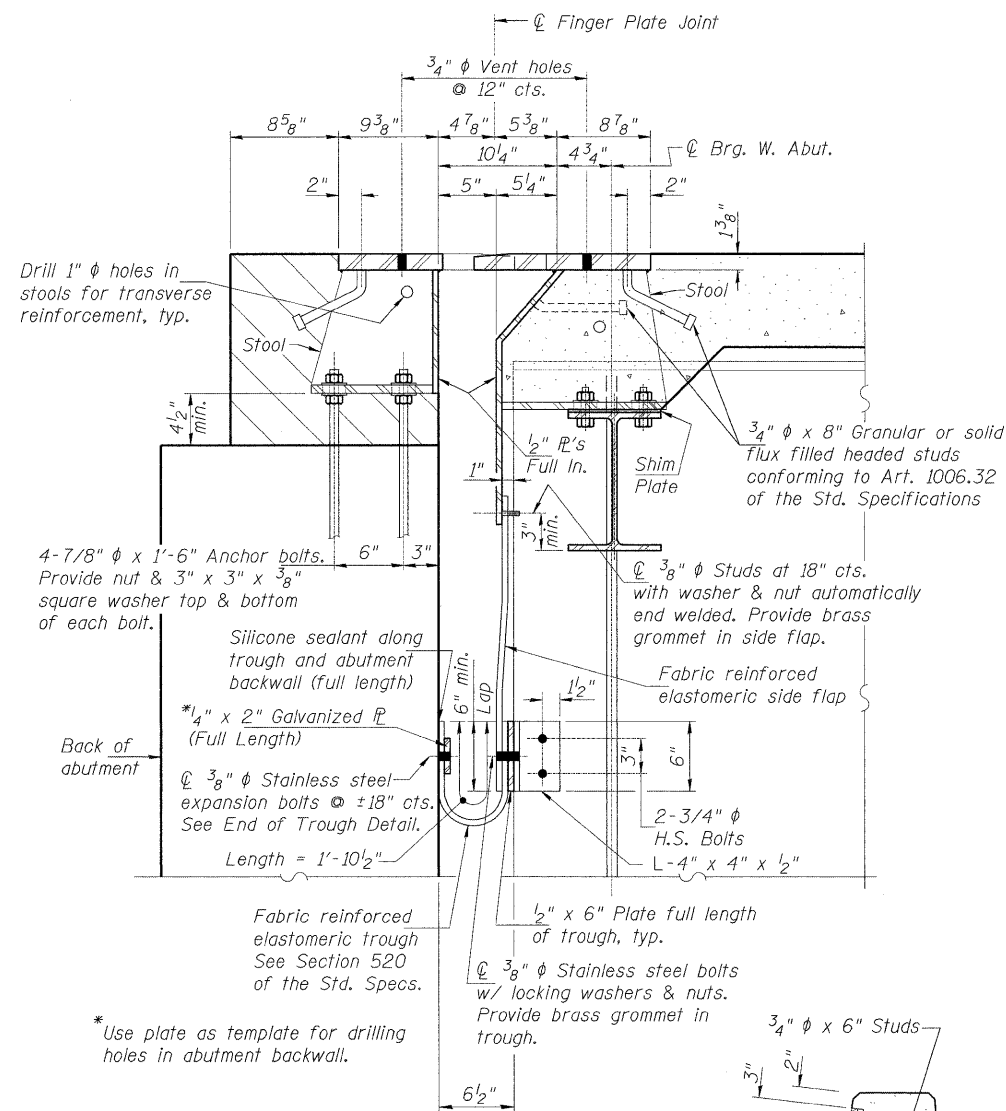


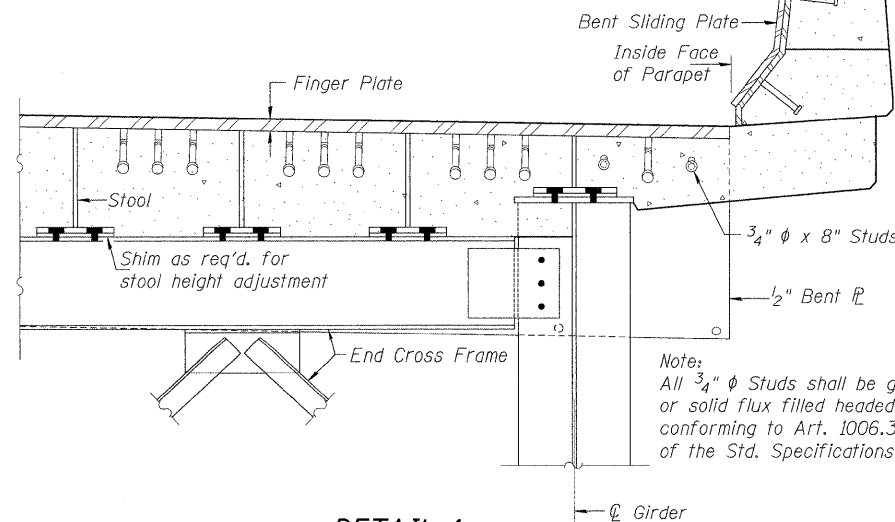
TABLE OF STOOL HEIGHTS

ILLINOIS	FED. AID PROJECT
----------	------------------

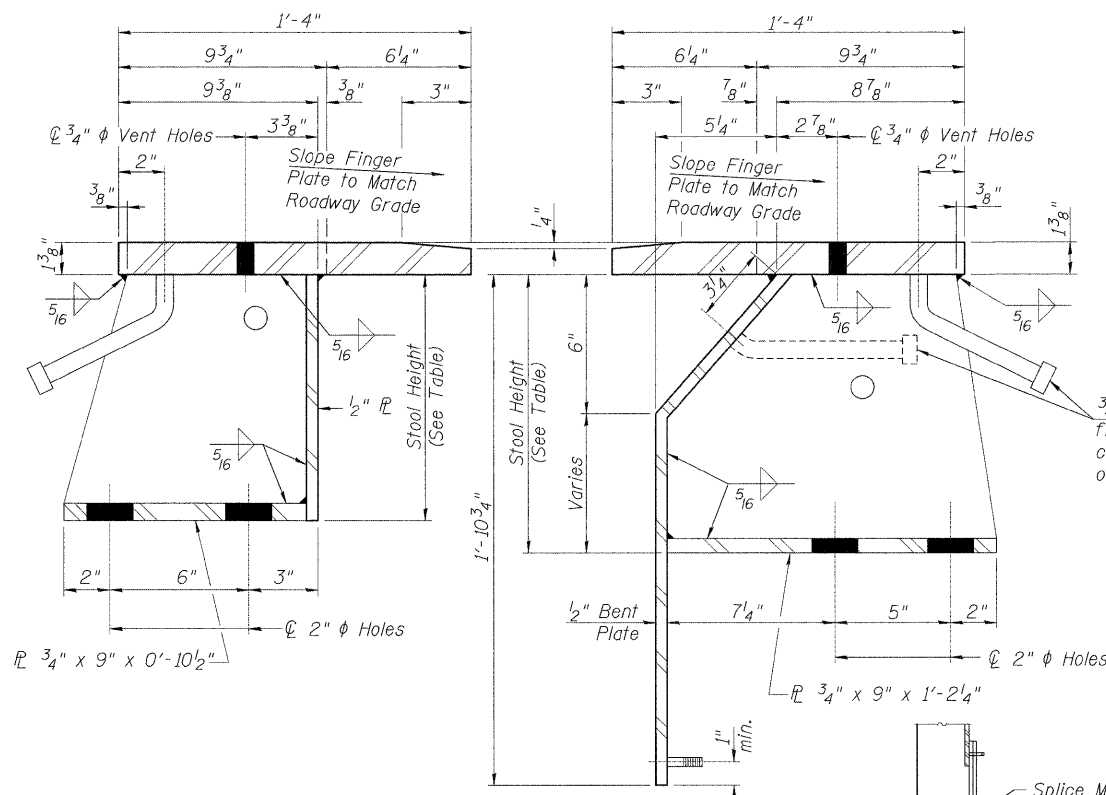


SECTION B-B

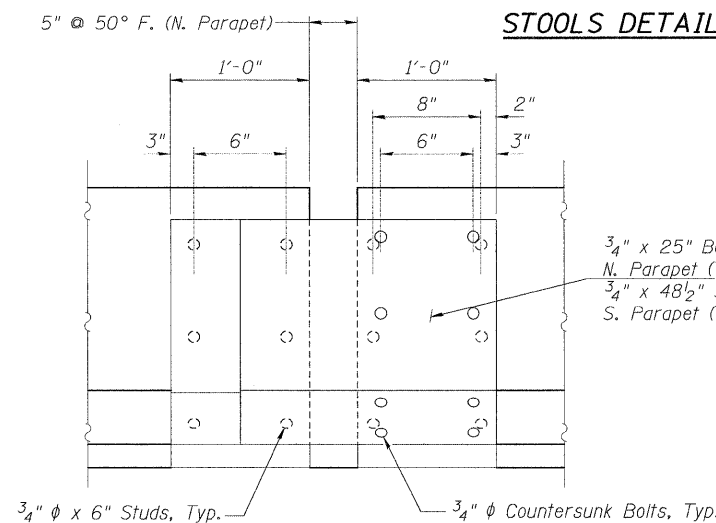
(At Right Angles to Bk. of Abut.)
Horizontal dimensions are at 50° F.



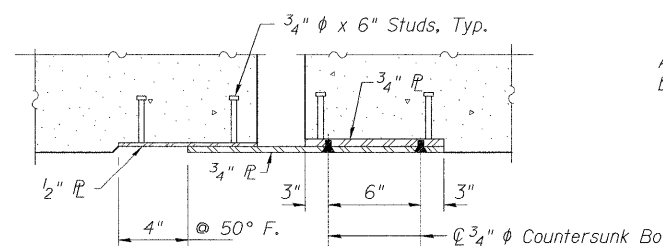
DETAIL 1



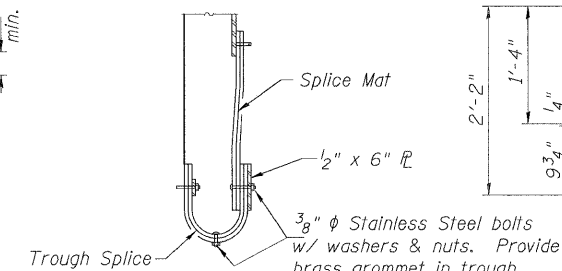
STOOLS DETAIL



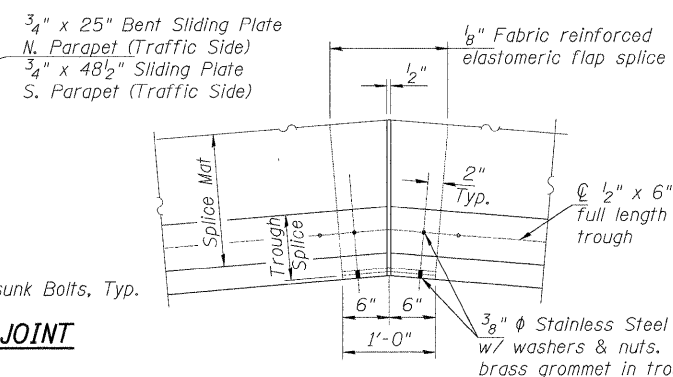
INSIDE ELEVATION OF N. PARAPET AT JOINT



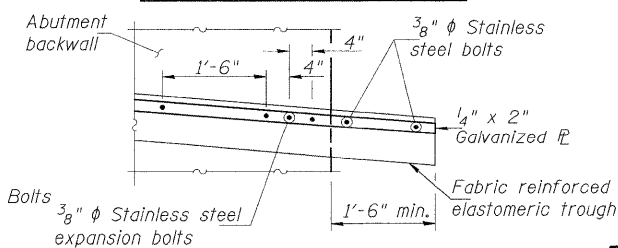
HORIZONTAL SECTION OF N. PARAPET AT JOINT



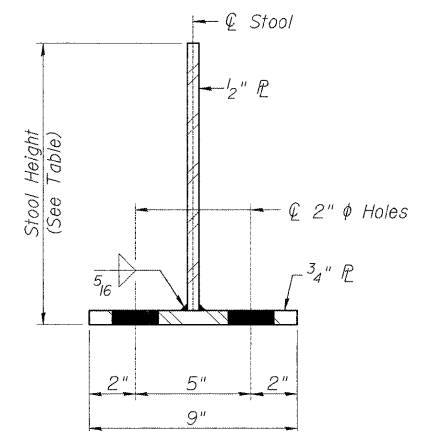
SECTION THRU TROUGH SPLICE



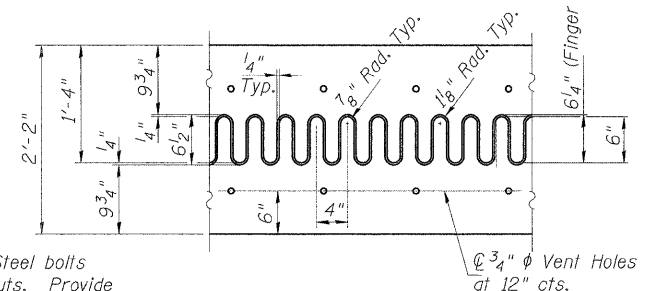
TROUGH SPLICE DETAIL



END OF TROUGH DETAIL AT ABUT.

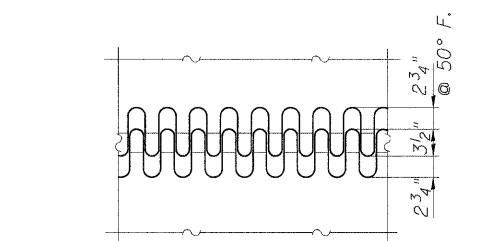


SECTION THRU STOOL



FLAME CUTTING DIAGRAM

Cut from 2 1/4" x 3'-2 7/8" x 41'-2 1/4"



FINGER PLATE SETTING DIAGRAM

- NOTES:
1. Work this sheet with Sheet 15 of 47.
 2. Provide 1-1/4", 1-1/8" and 1-1/16" shim plates for stools supported by girders and cross frames.

**FINGER PLATE JOINT DETAIL
STRUCTURE NUMBER 101-3100**

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

© Copyright Hanson Professional Services Inc. 2010



Hanson Professional Services Inc.

JOB NO.

03R1807

DATE

10/26/10

SHEET NO. 16

47 SHEETS

F.A.U.
RTE.
5103

SECTION
03-00337-00-BR

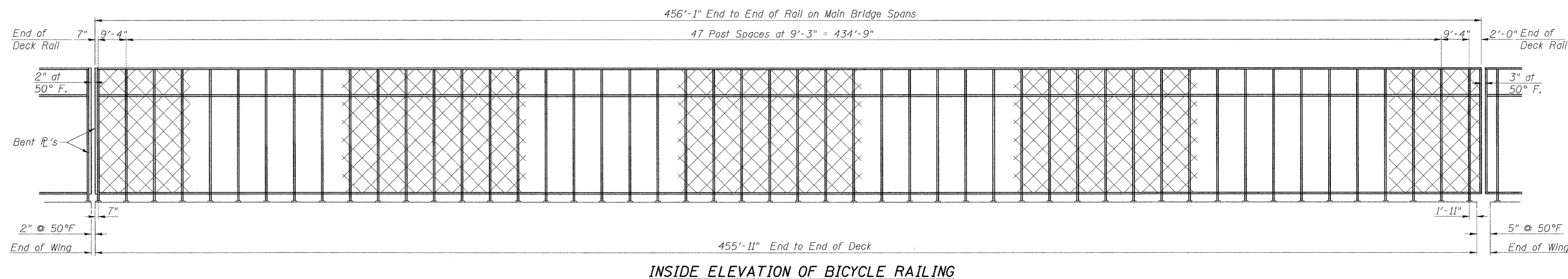
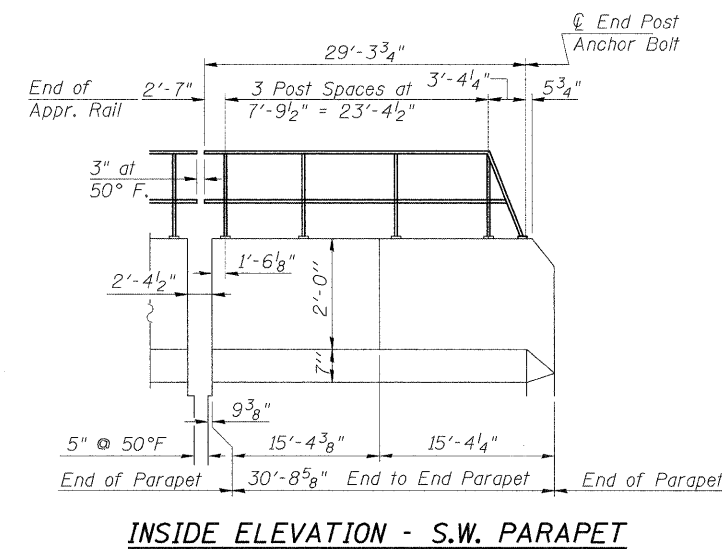
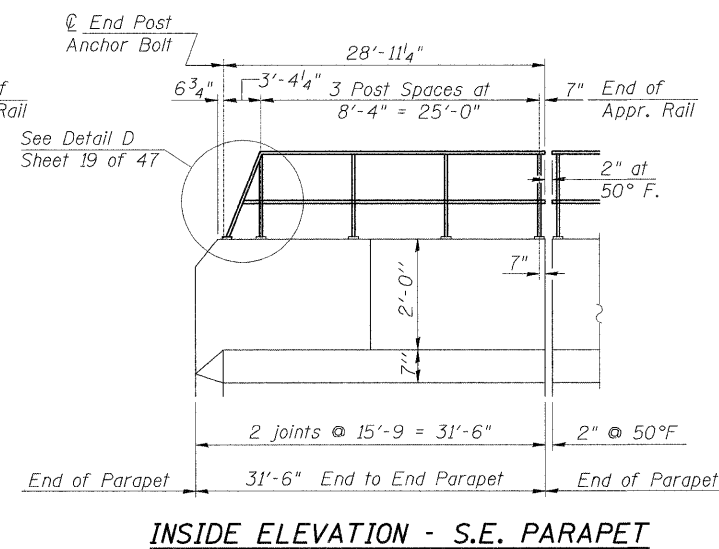
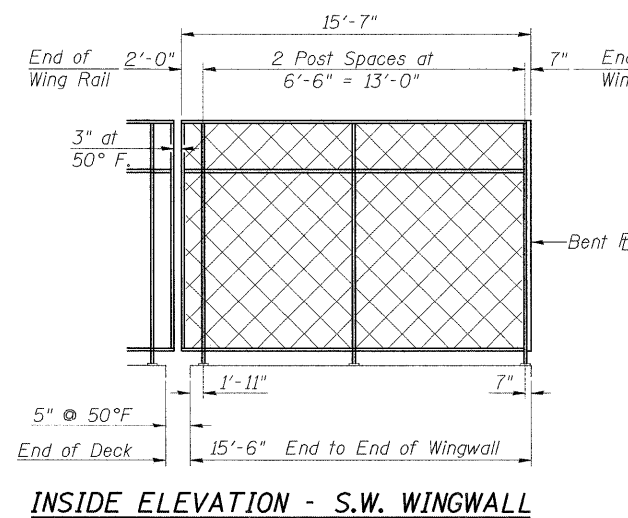
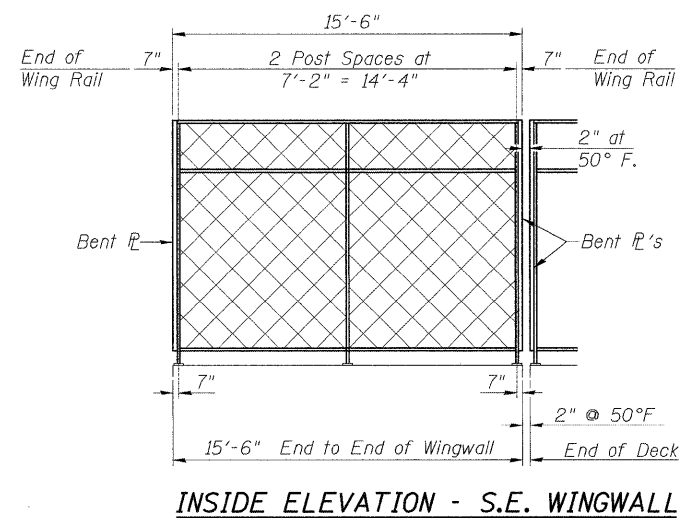
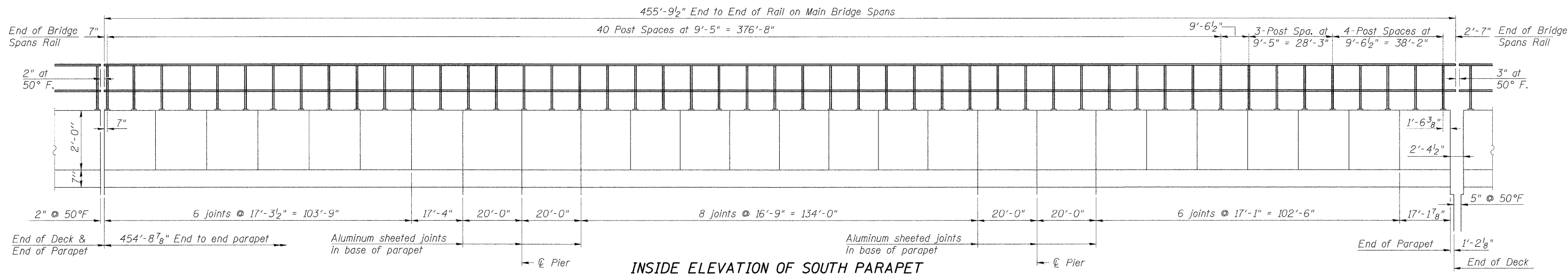
COUNTY
Winnebago

TOTAL
SHEETS
66

SHEET
NO.
31

CONTRACT NO. 85523

ILLINOIS FED. AID PROJECT



Note: See sheet 19 of 47 for Rail Post and Rail Details.

**SUPERSTRUCTURE DETAILS
STRUCTURE NUMBER 101-3100**

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

© Copyright Hanson Professional Services Inc. 2010



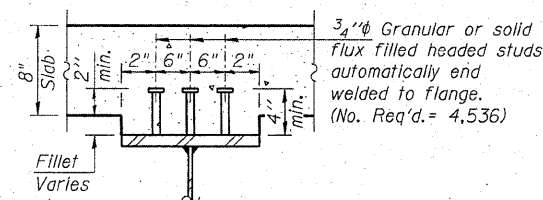
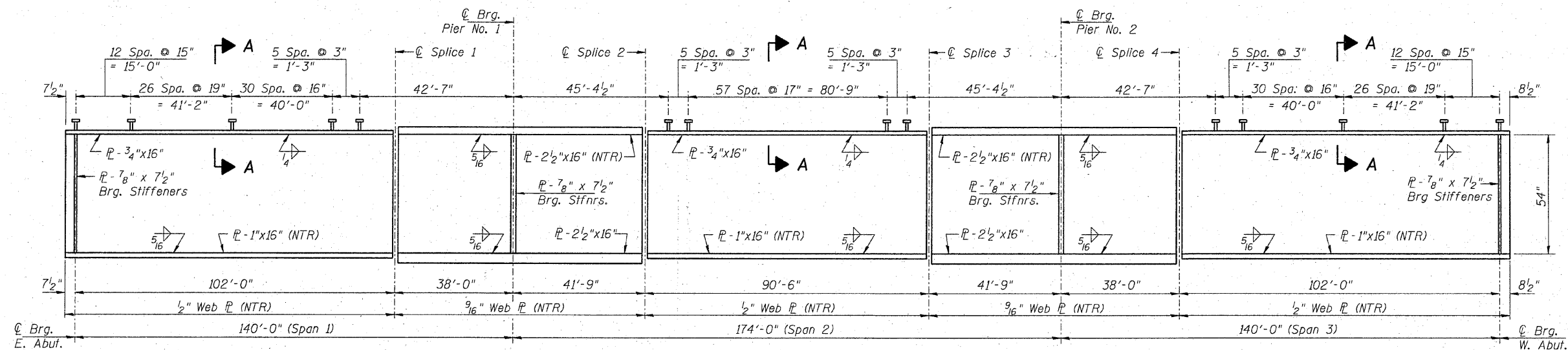
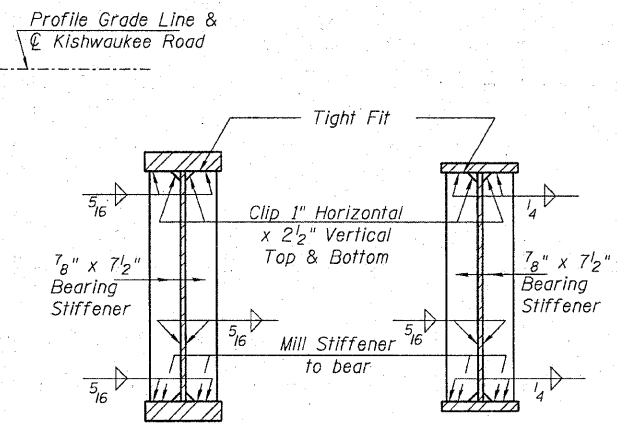
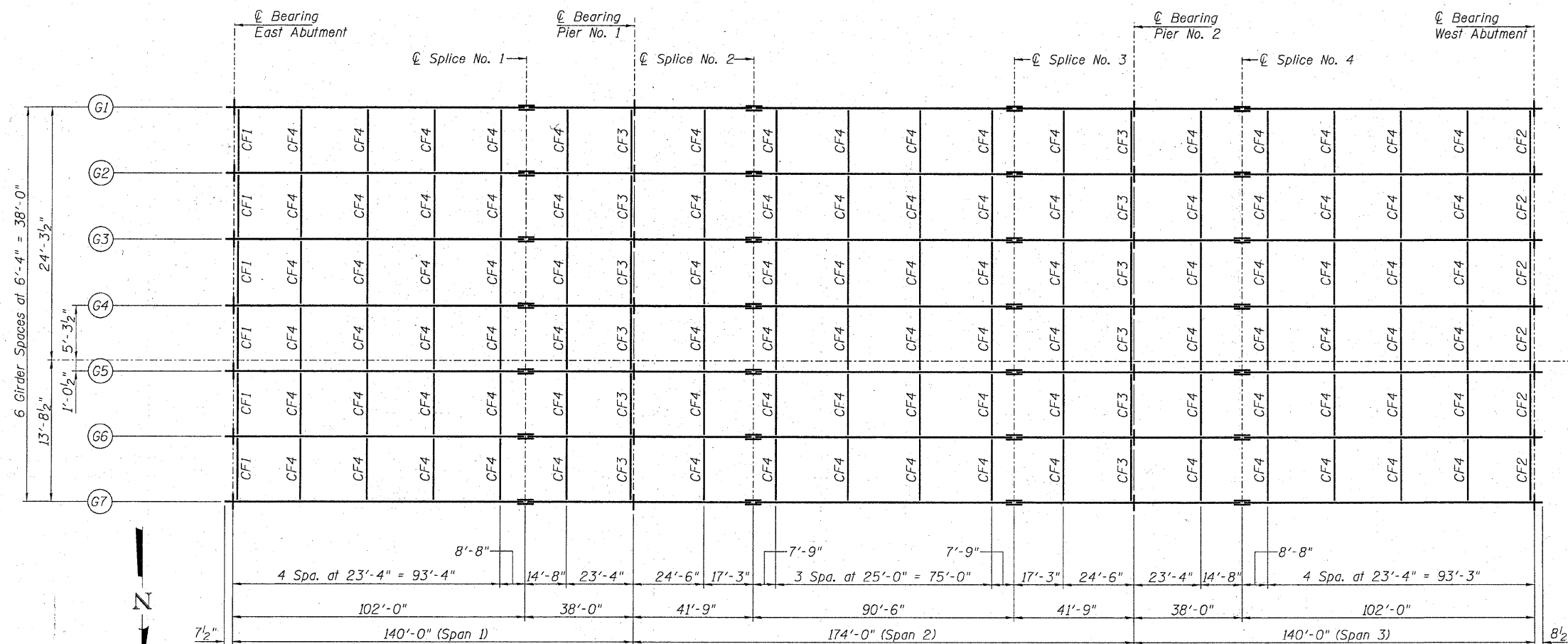
JOB NO. 03R1807

DATE 10/26/10

SHEET NO. 18

47 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	33
CONTRACT NO. 85523				
ILLINOIS FED. AID PROJECT				



Notes:

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 Supplemental Requirements for Notch Toughness, Zone 2.

All girders and splice plates shall be AASHTO M270, Grade 50.

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

© Copyright Hanson Professional Services Inc. 2010



Hanson Professional Services Inc.

034

03R1807

DATE _____

11/08/10

SHEET NO. 20

47 SHEETS

F.A.U. RTE.	5103
----------------	------

SECTION
3-00337-00-

COUNTY
Winnebago

TOTAL	
SHEETS	
66	

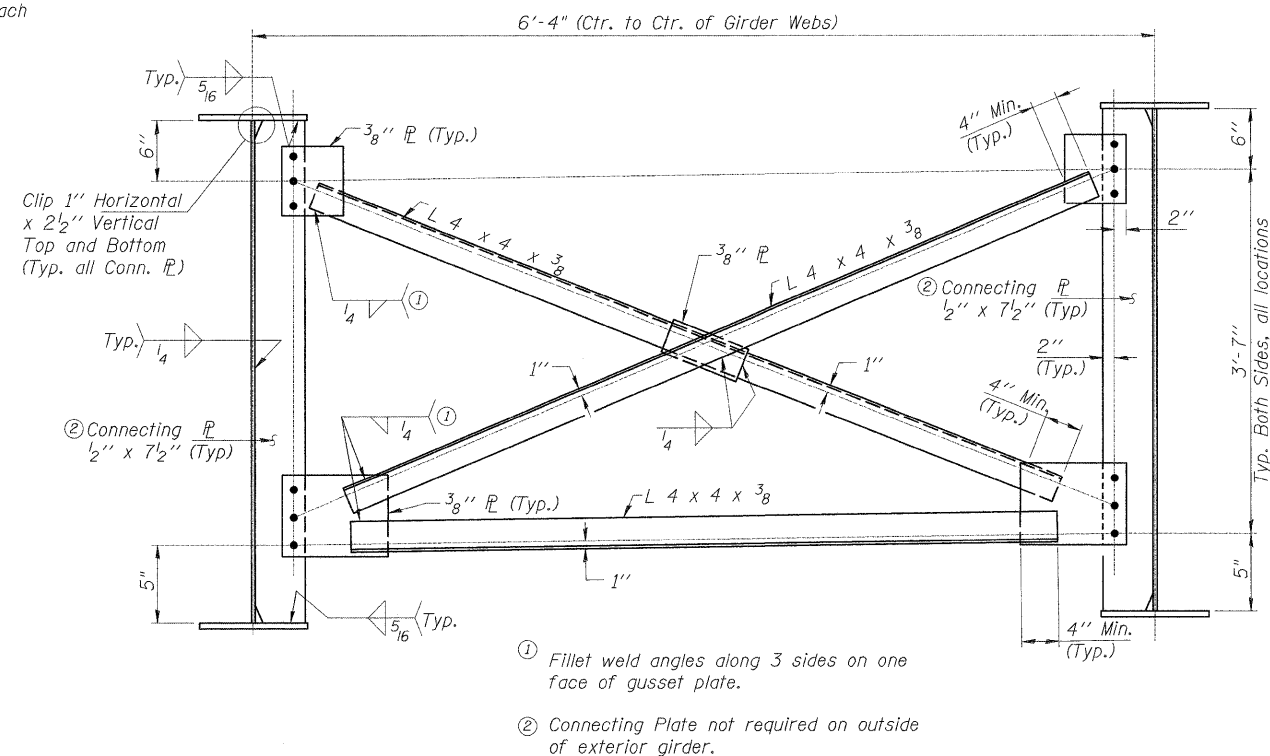
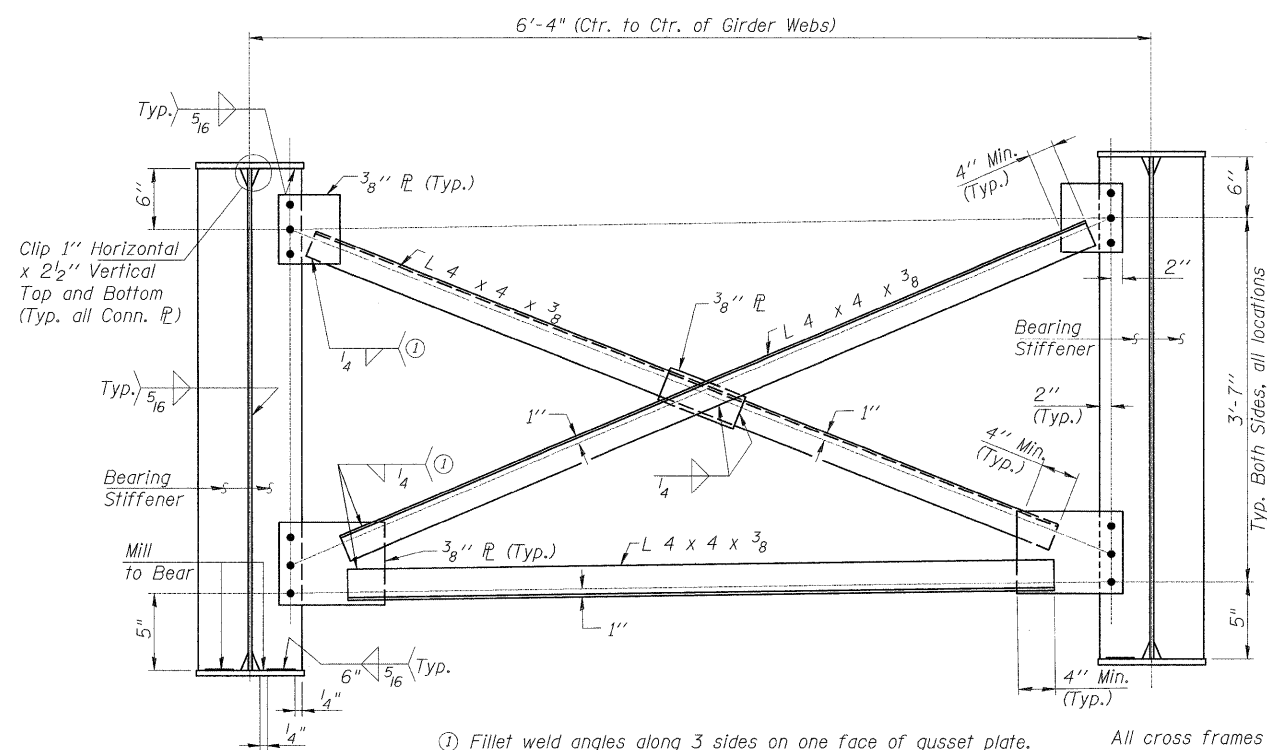
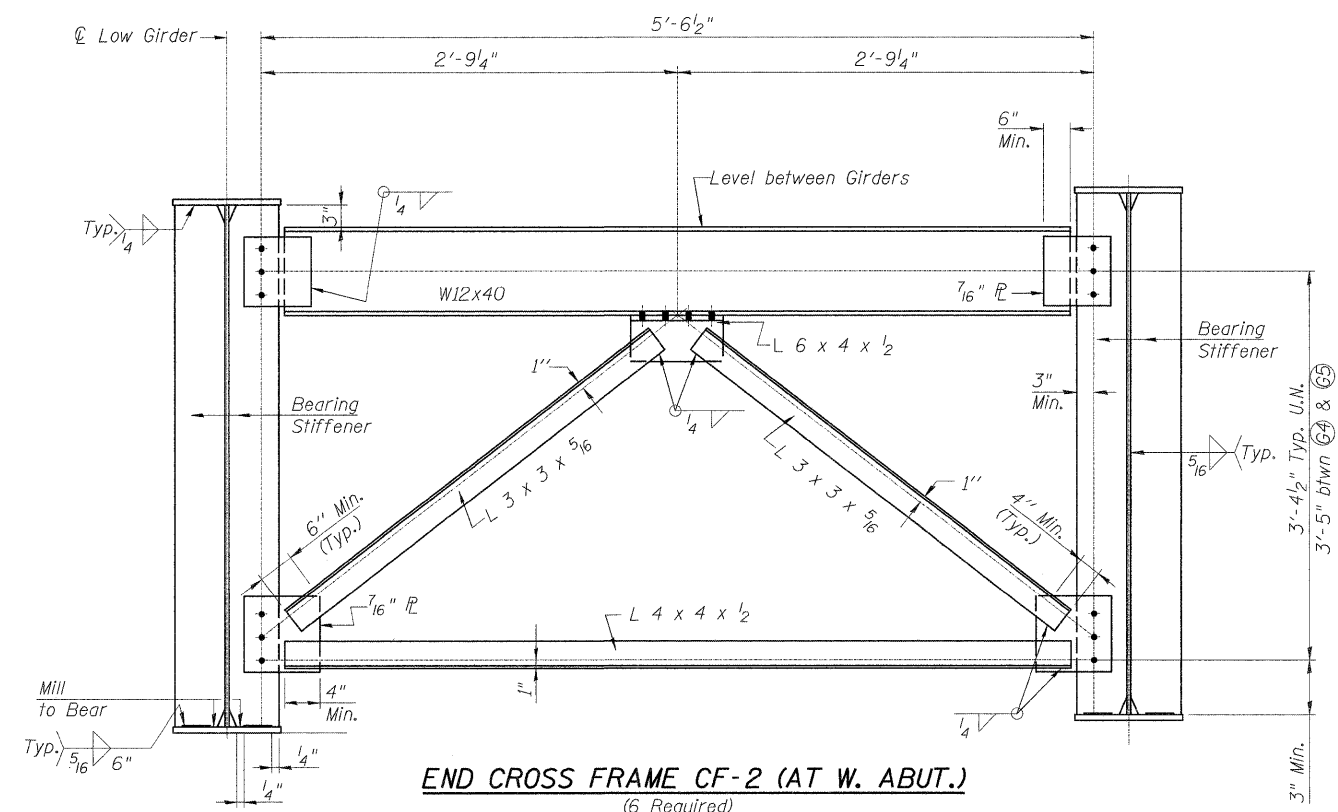
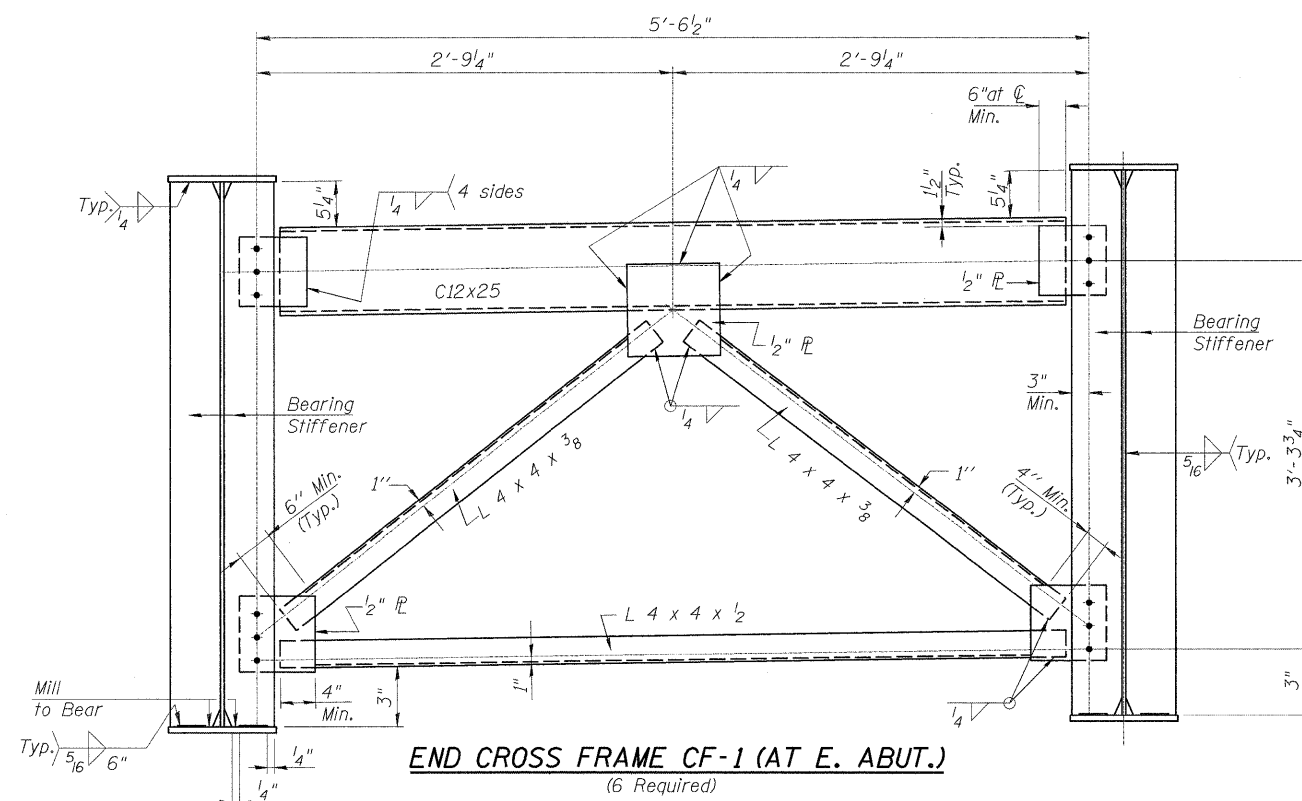
SHEET NO.
35

CONTRACT NO.	85523
--------------	-------

ILLINOIS	FED. AID PROJECT
----------	------------------

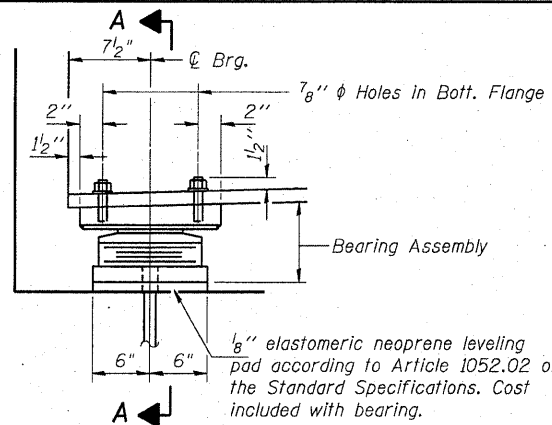
LAYOUT	JKR/S/MK	08/23/10
DRAWN	MM	10/25/10
REVIEWED	JKR/S/MK	10/26/10

IN23-2010
 IN03 Jous03H807 Struck Sheet S-020-Framing Plan.dgn

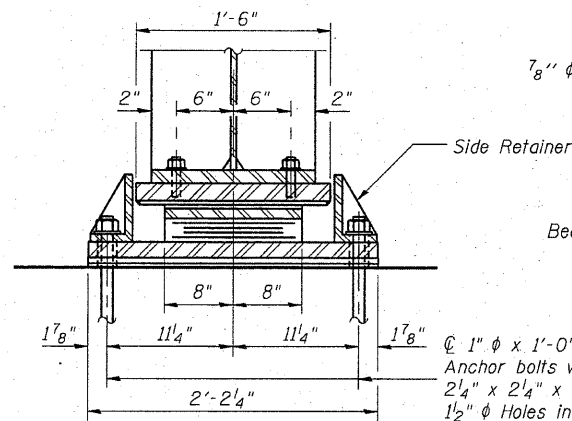


CROSS FRAME DETAILS
STRUCTURE NUMBER 101-3100

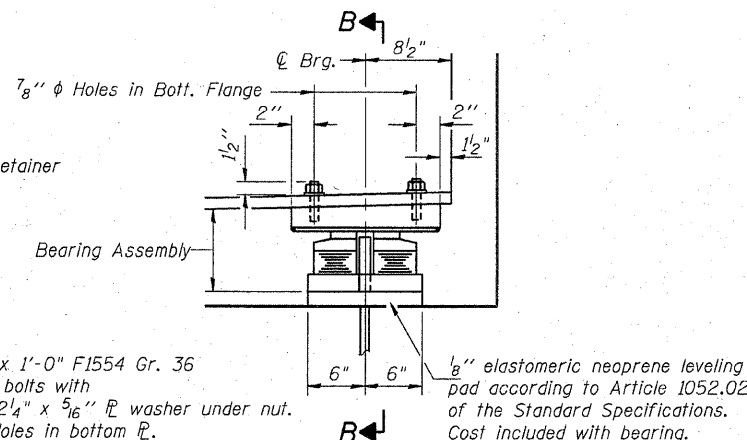
PROFESSIONAL DESIGN FIRM LICENSE #184-001084 © Copyright Hanson Professional Services Inc. 2010 HANSON Hanson Professional Services Inc.		JOB NO. 03R1807	SHEET NO. 21 47 SHEETS	F.A.U. RTE. 5103	SECTION 03-00337-00-BR	COUNTY Winnebago	TOTAL SHEETS 66	SHEET NO. 36
				CONTRACT NO. 85523				
				ILLINOIS FED. AID PROJECT				



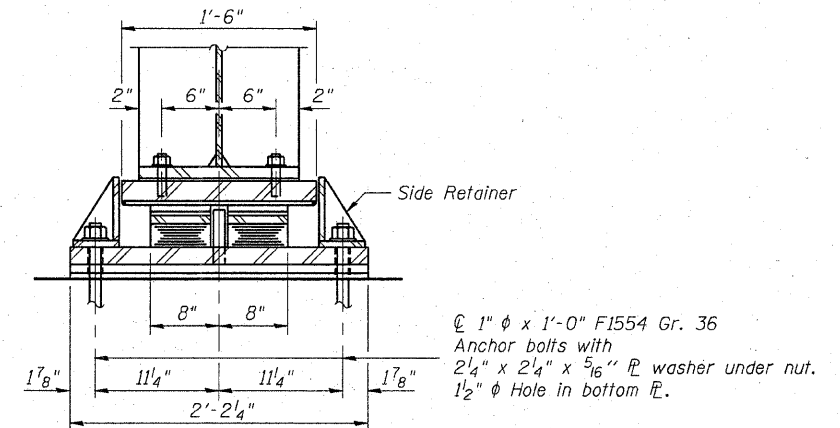
ELEVATION AT EAST ABUT.



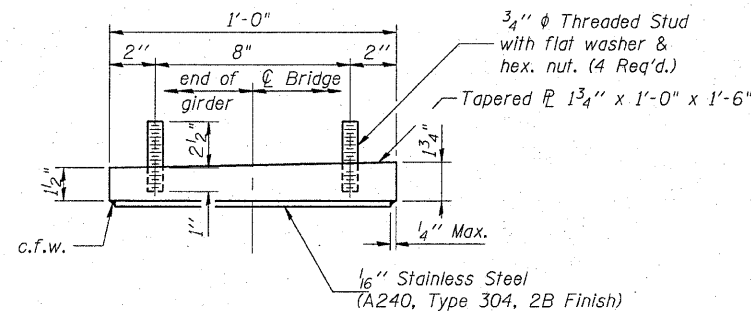
SECTION A-A



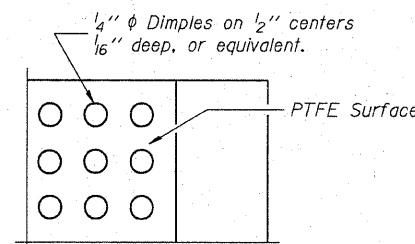
ELEVATION AT WEST ABUT.



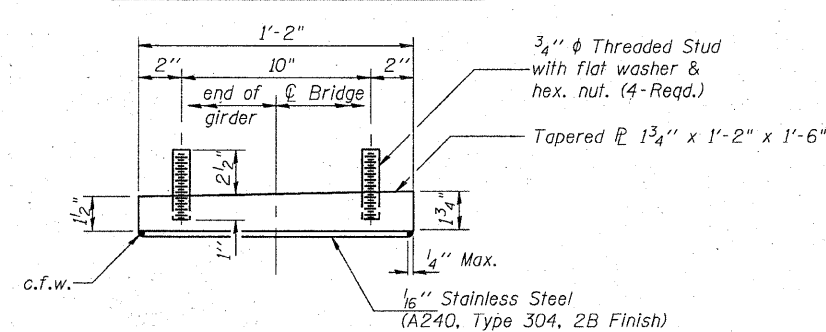
SECTION B-B



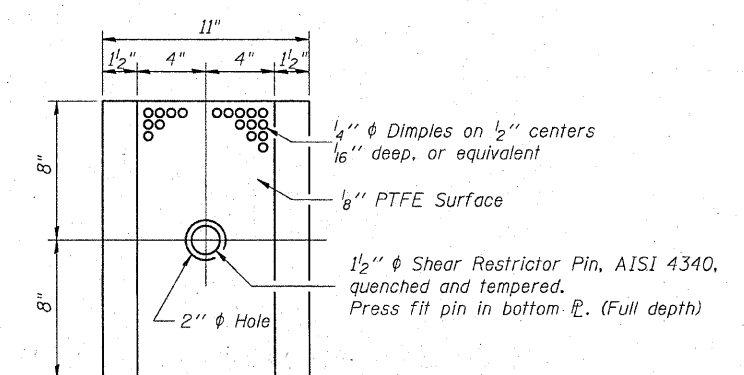
TYPE II TOP BEARING ASSEMBLY



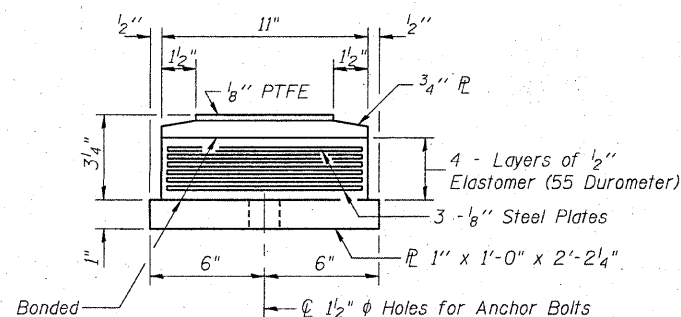
PLAN-PTFE SURFACE



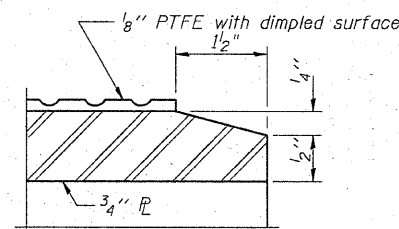
TYPE III TOP BEARING ASSEMBLY



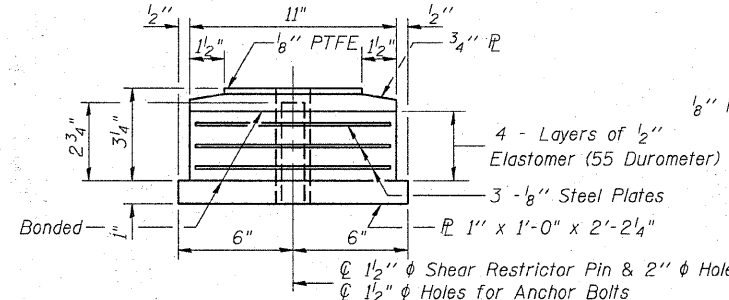
PLAN-PTFE ELASTOMERIC BRG.



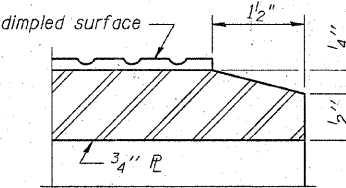
TYPE II BOTTOM BEARING ASSEMBLY



SECTION THRU PTFE



TYPE III BOTTOM BEARING ASSEMBLY



SECTION THRU PTFE

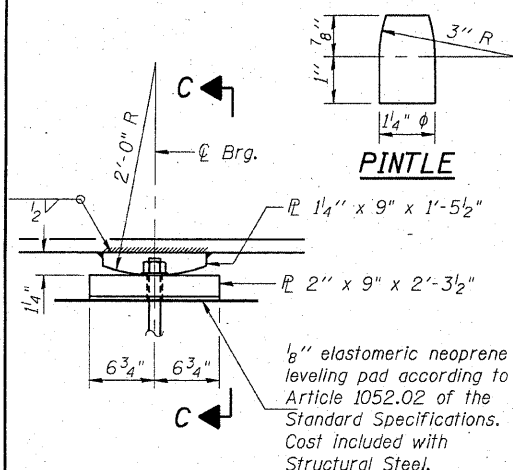
BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	7
Elastomeric Bearing Assembly Type III	Each	7
Anchor Bolts, 1"	Each	28
Anchor Bolts, 1 1/2"	Each	14

Notes:
Anchor bolts at fixed bearings may be built into the masonry. See Sheet 31 of 47 for Anchor Bolt location.
The 1/8" PTFE Sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
Bonding of 1/8" PTFE Sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.
All structural steel bearing plates and pintles for low profile fixed bearings and Elastomeric Bearing Assemblies shall be AASHTO M270, Grade 50.

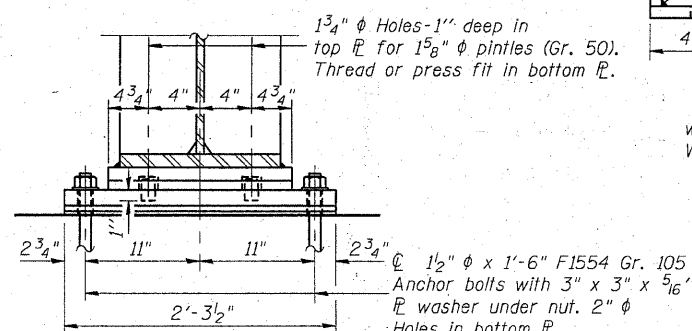
ELASTOMERIC AND FIXED BEARING DETAILS
STRUCTURE NUMBER 101-3100

TYPE II ELASTOMERIC EXP. BRG. AT EAST ABUTMENT

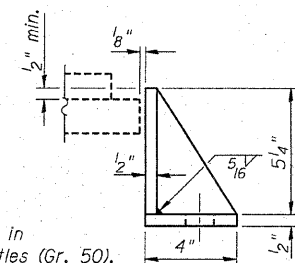


ELEVATION AT PIER 1

LOW PROFILE FIXED BEARING

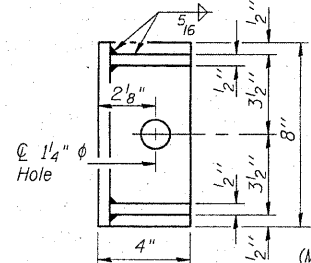


SECTION C-C



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.



SETTING ANCHOR BOLTS AT EXP. BRG.

D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50° F.

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

© Copyright Hanson Professional Services Inc. 2010



Hanson Professional Services Inc.

JOB NO.

03R1807

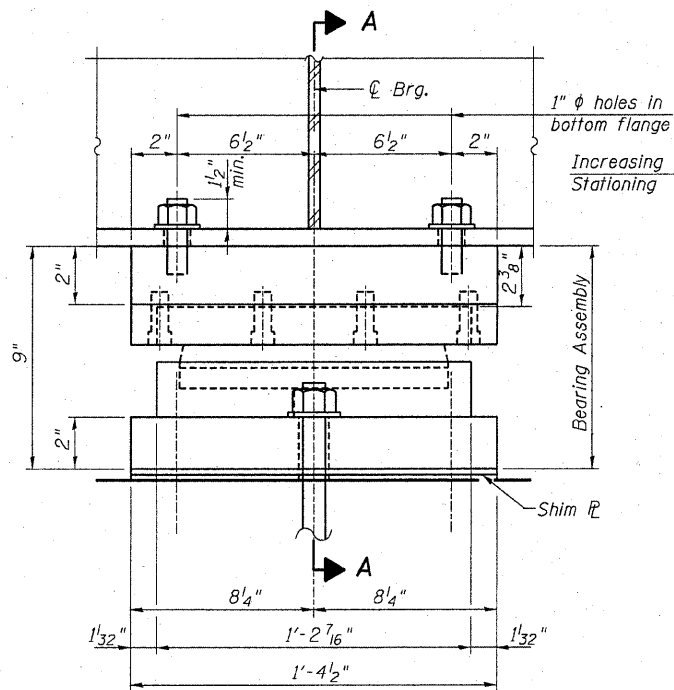
DATE

11/08/10

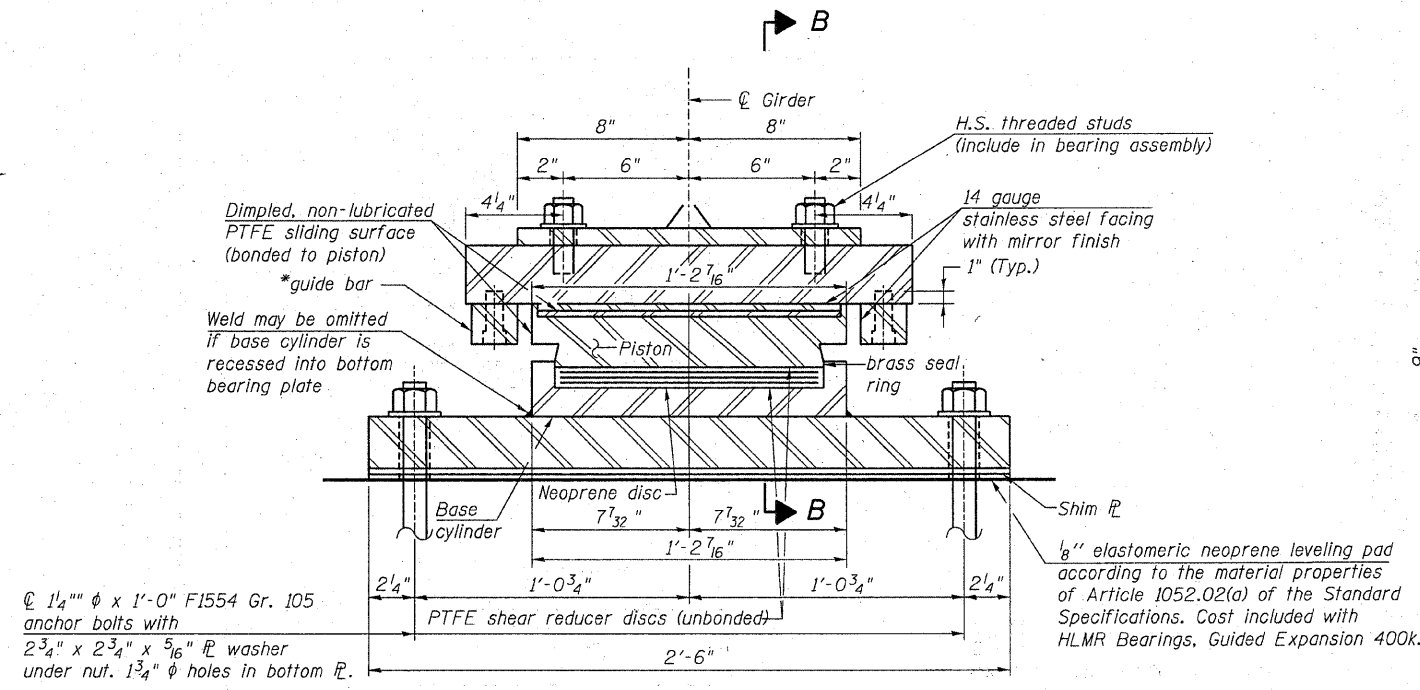
SHEET NO. 23

47 SHEETS

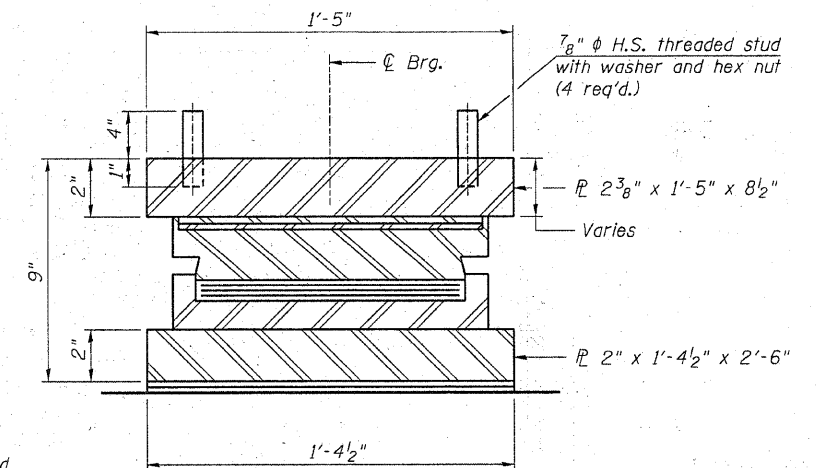
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	38
CONTRACT NO. 85523				
ILLINOIS FED. AID PROJECT				



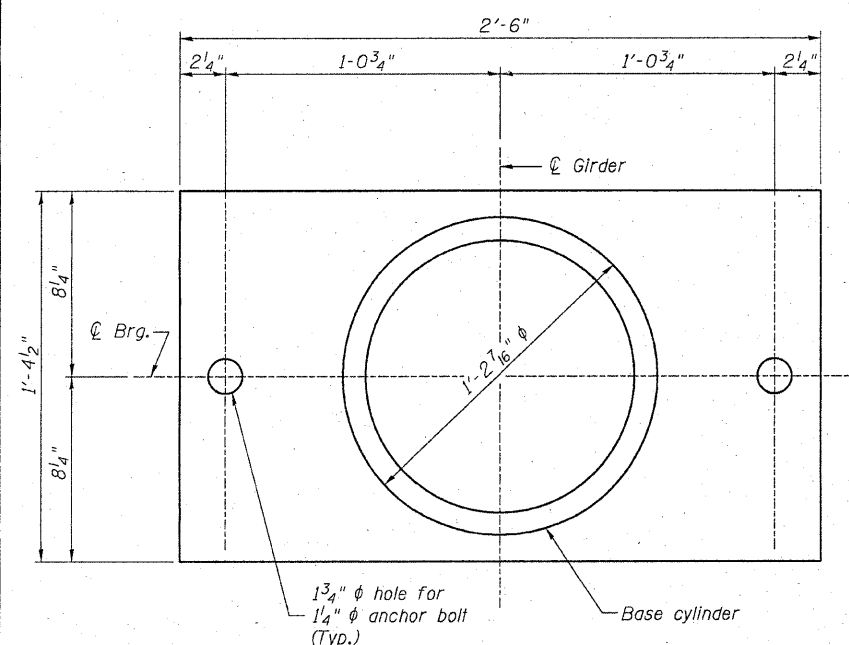
ELEVATION AT PIER 2



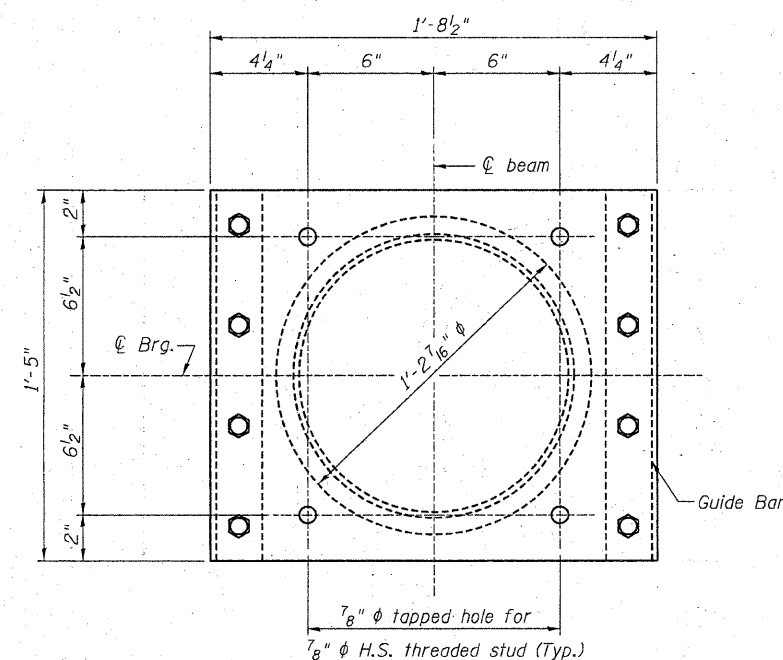
SECTION A-A



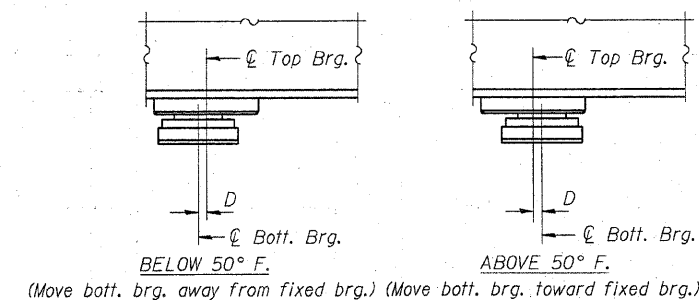
SECTION B-B
(Guide Bar omitted for clarity)



BOTTOM BEARING $\mathbb{P}$ AND BASE CYLINDER PLAN



TOP BEARING $\mathbb{P}$ AND PISTON PLAN



SETTING ANCHOR BOLTS AT EXP. BRG.

$D=1/8"$ per each 100' of expansion for every 15° temp. change from the normal temp. of 50° F.

NOTES

The plates of the Bearing Assembly shall be AASHTO M270, Grade 50.
The Bearing Assembly shall be capable of transmitting 20% of the vertical design load as a horizontal force in the direction normal to the guide bars.
Shim plate(s) shall be the full dimension of the bottom bearing plate.
Cost of shims is included with HLMR Bearings, Guided Expansion 400k.

* As alternates to the bolted connection shown, the guide bars may be connected to the top bearing plate by groove welds or the guide bars and top bearing plate may be fabricated as a single piece.

Bearing Data	
Vertical Design Load	400 K
Total Required Movement	1 1/8"
Service Design Rotation	0.014 rad.

BILL OF MATERIAL

Item	Unit	Total
HLMR Bearings, Guided Expansion 400k	Each	7
Anchor Bolts, 1 1/4"	Each	14

**BEARING DETAILS
STRUCTURE NUMBER 101-3100**

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

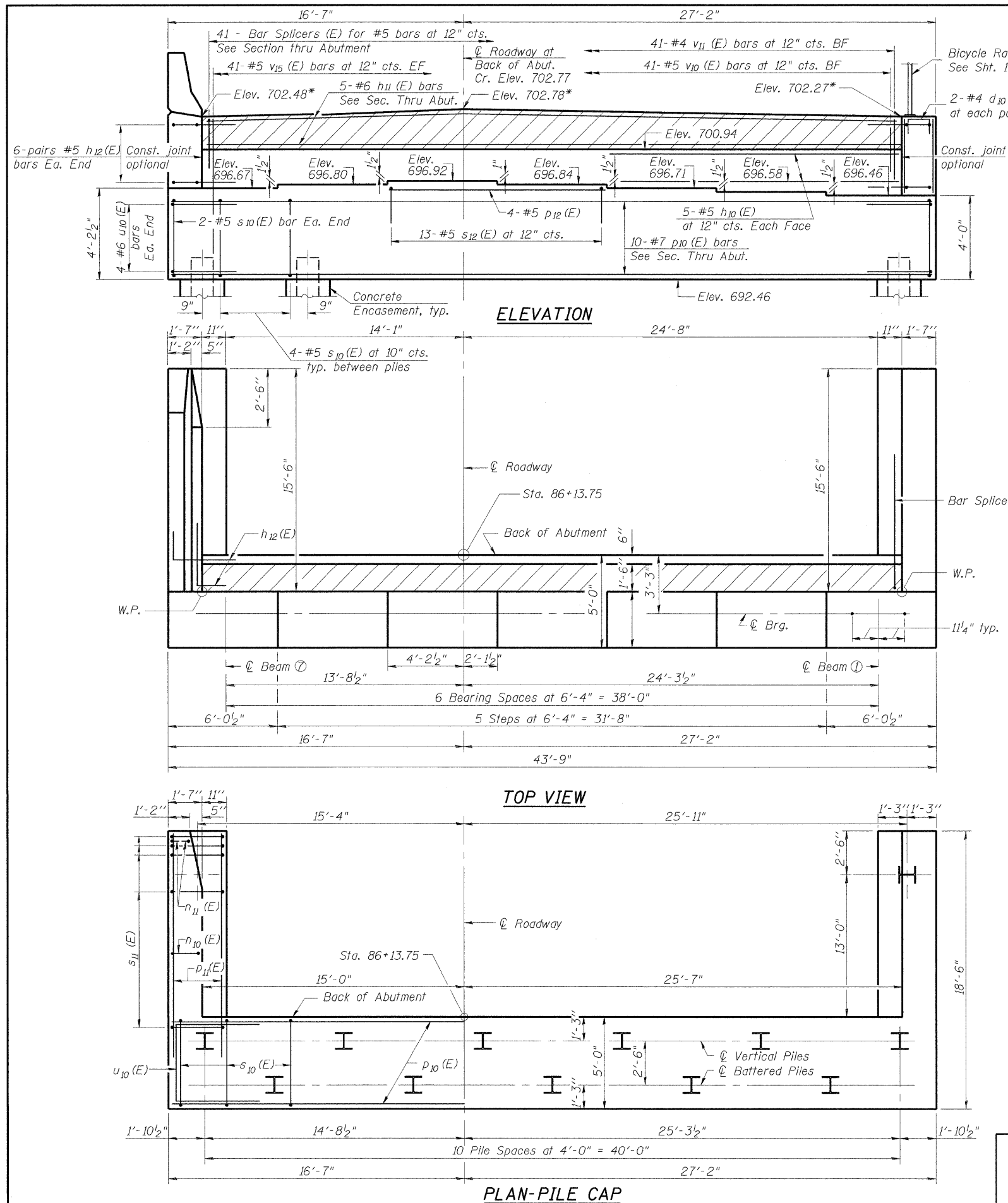
© Copyright Hanson Professional Services Inc. 2010



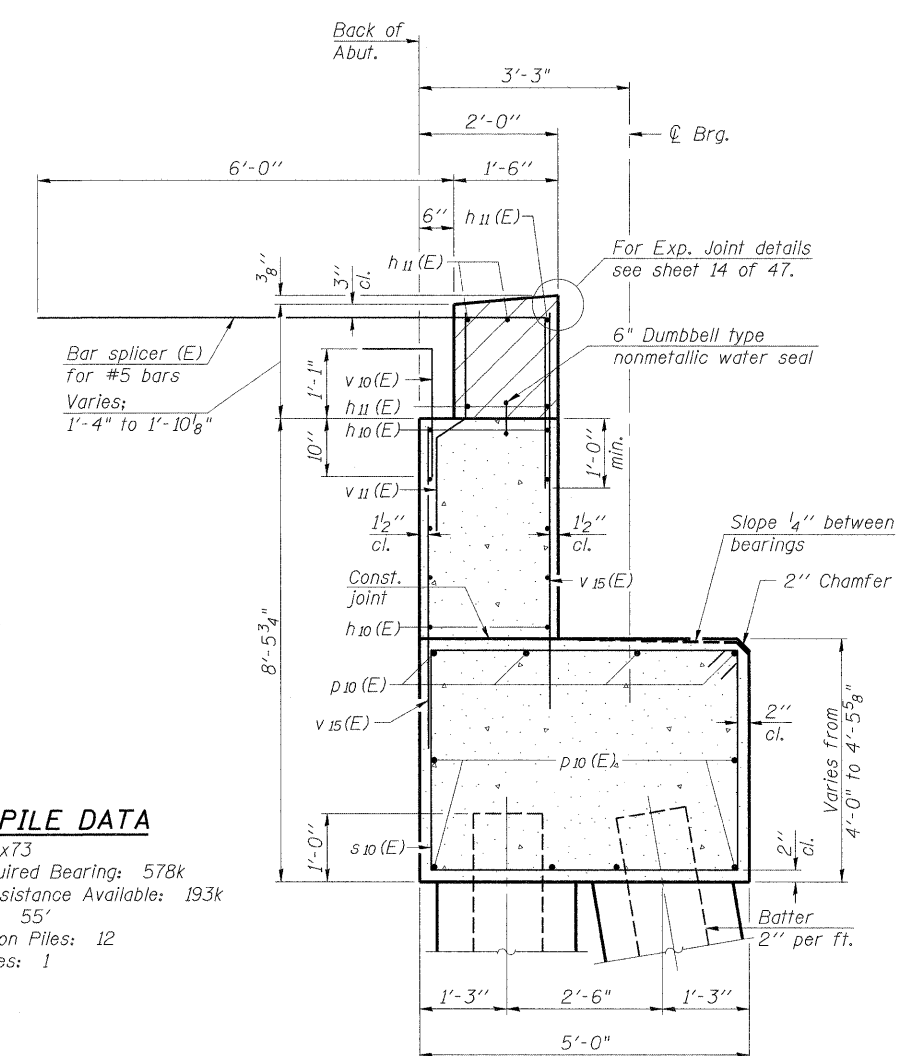
Hanson Professional Services Inc.

JOB NO.
03R1807
SHEET NO. 24
47 SHEETS
DATE
11/08/10

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	39
		CONTRACT NO. 85523		
ILLINOIS		FED. AID PROJECT		



* Elev's given at back of thrust block.



PILE DATA

Type: HP14x73
 Nominal Required Bearing: 578k
 Factored Resistance Available: 193k
 Est. Length: 55'
 No. Production Piles: 12
 No. Test Piles: 1

Notes:
 Hatched area to be poured after superstructure falsework has been removed. Quantity of concrete included with Concrete Superstructure.
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

© Copyright Hanson Professional Services Inc. 2010

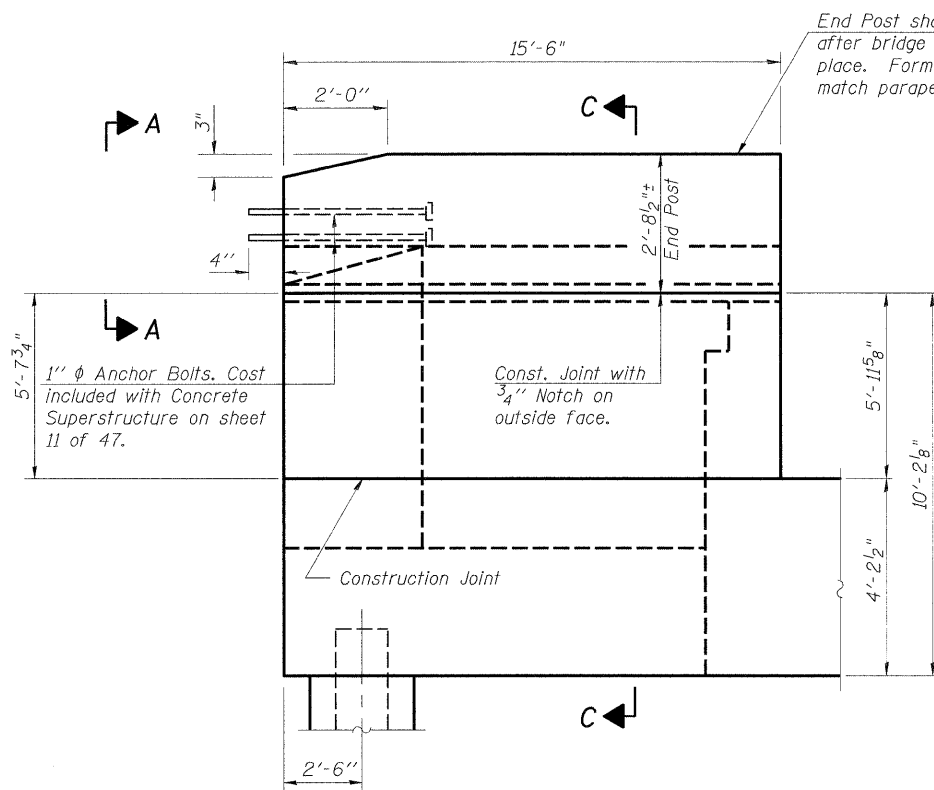


JOB NO. 03R1807	SHEET NO. 25
DATE 10/26/10	47 SHEETS

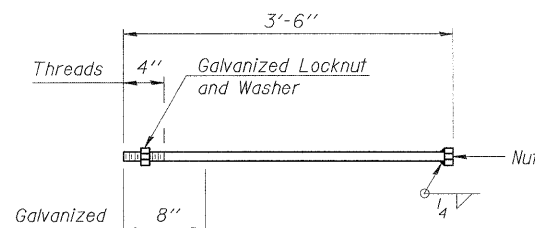
**EAST ABUTMENT
 STRUCTURE NUMBER 101-3100**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	40
CONTRACT NO. 85523				
ILLINOIS FED. AID PROJECT				

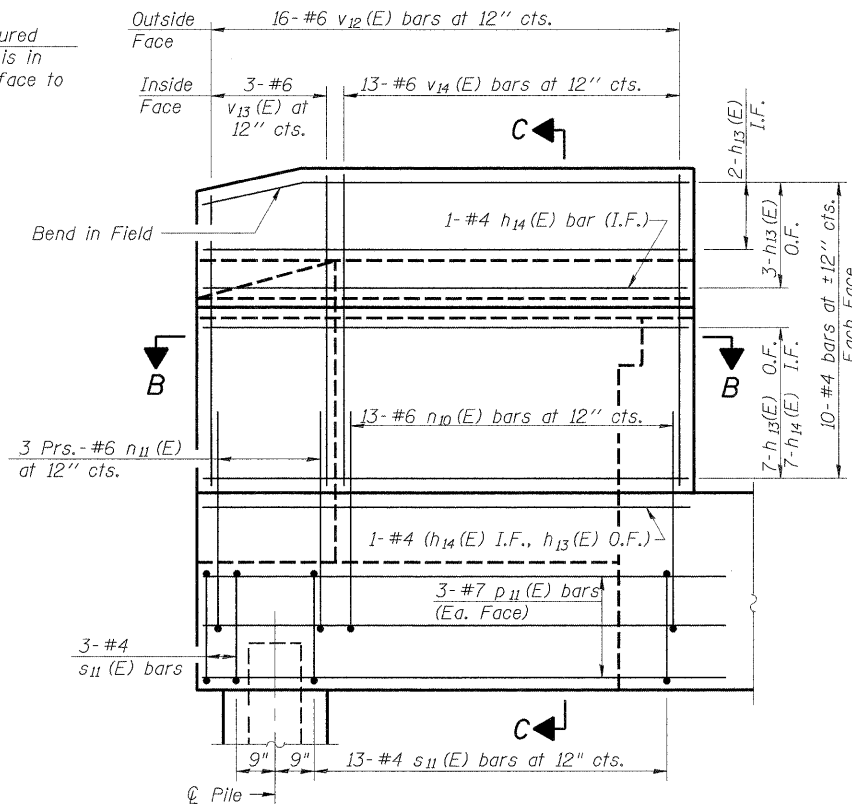
10/26/2010
 LAYOUT
 DRAWN
 REVIEWED



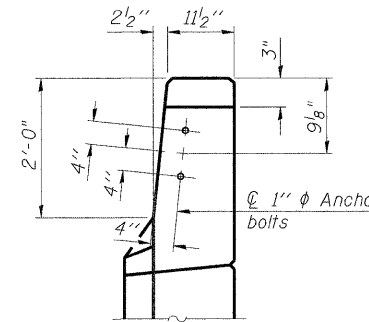
NORTH WING WALL ELEVATION
Showing Dimensions



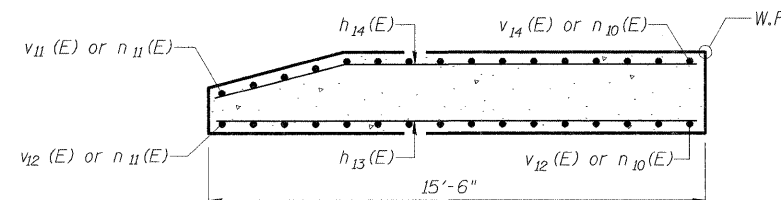
1" ϕ ANCHOR BOLT



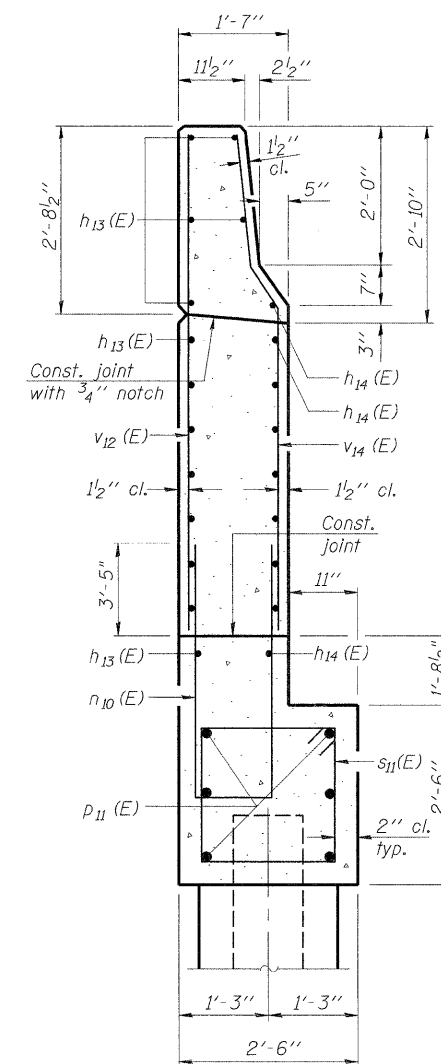
NORTH WING WALL ELEVATION
Showing Reinforcement



VIEW A-A



SECTION B-B



SECTION C-C

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 11 of 47.
For Concrete Encasement details, see sheet 34 of 47.

EAST ABUTMENT
STRUCTURE NUMBER 101-3100

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

© Copyright Hanson Professional Services Inc. 2010



Hanson Professional Services Inc.

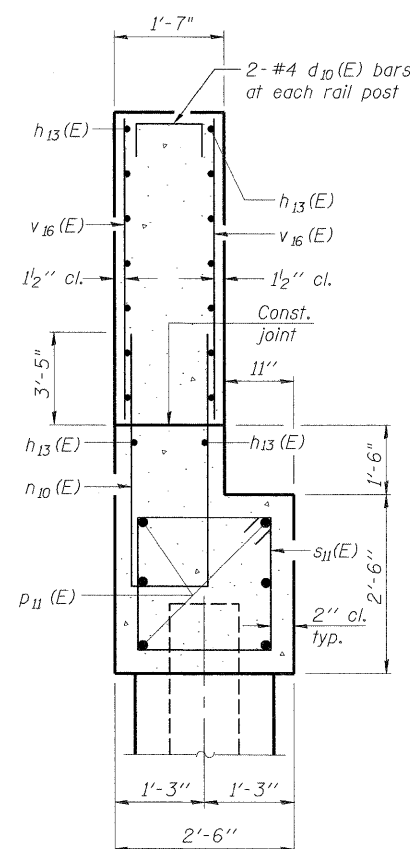
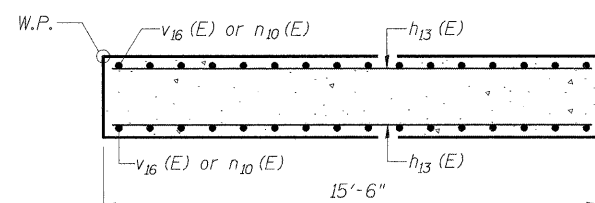
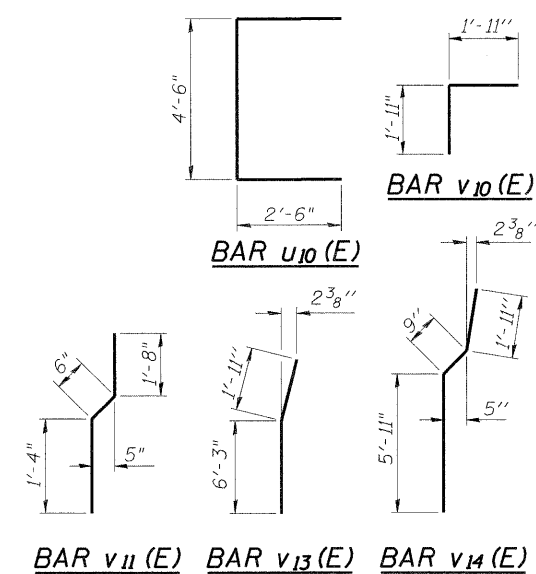
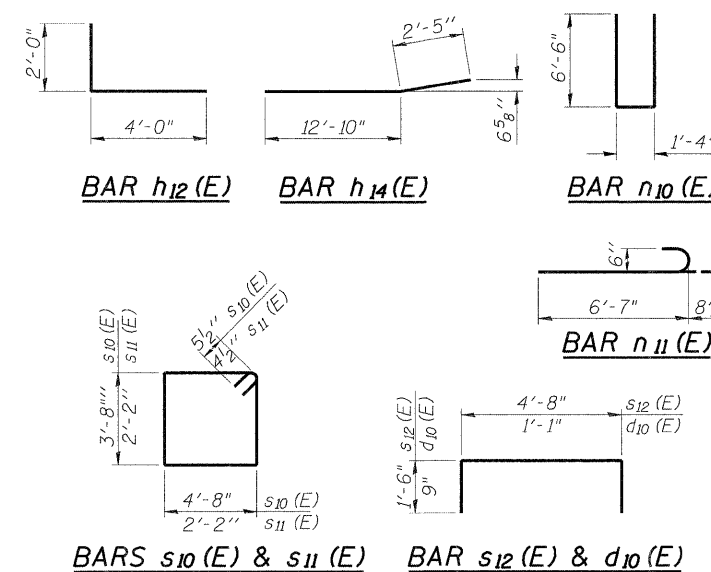
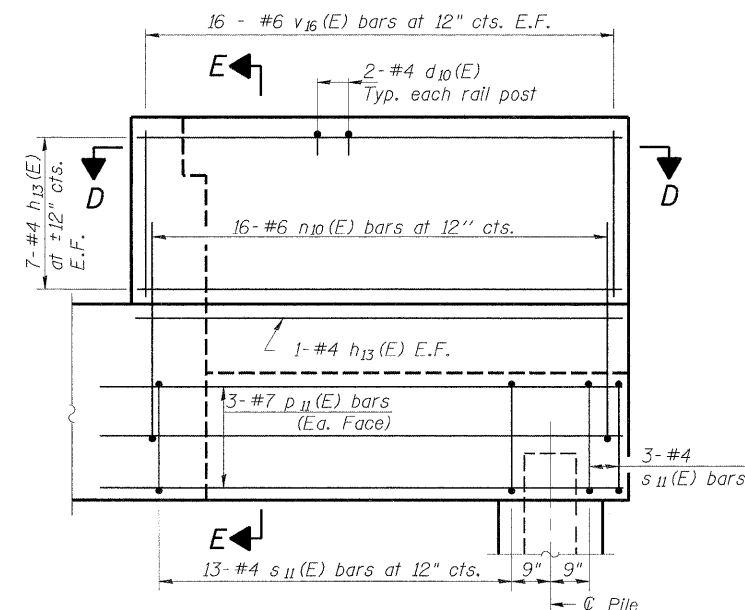
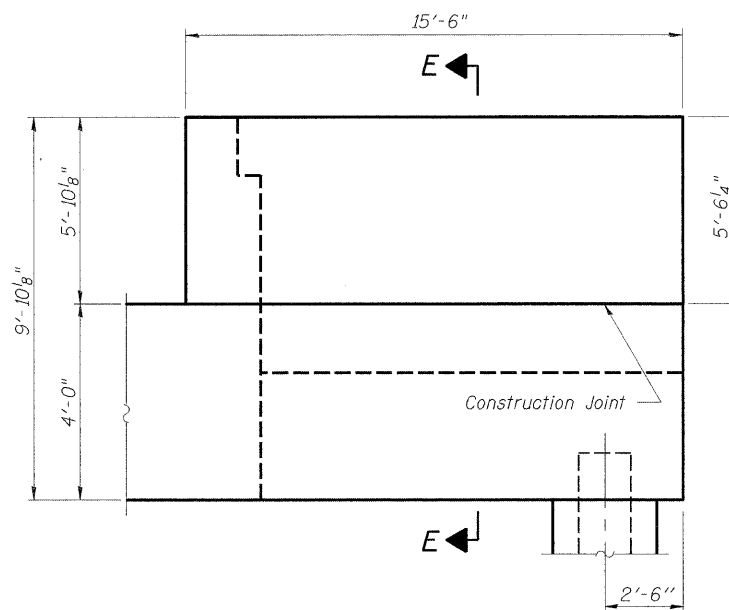
JOB NO.
03R1807

DATE
10/26/10

SHEET NO. 26

47 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	41
CONTRACT NO. 85523				
ILLINOIS FED. AID PROJECT				



EAST ABUTMENT
BILL OF MATERIAL

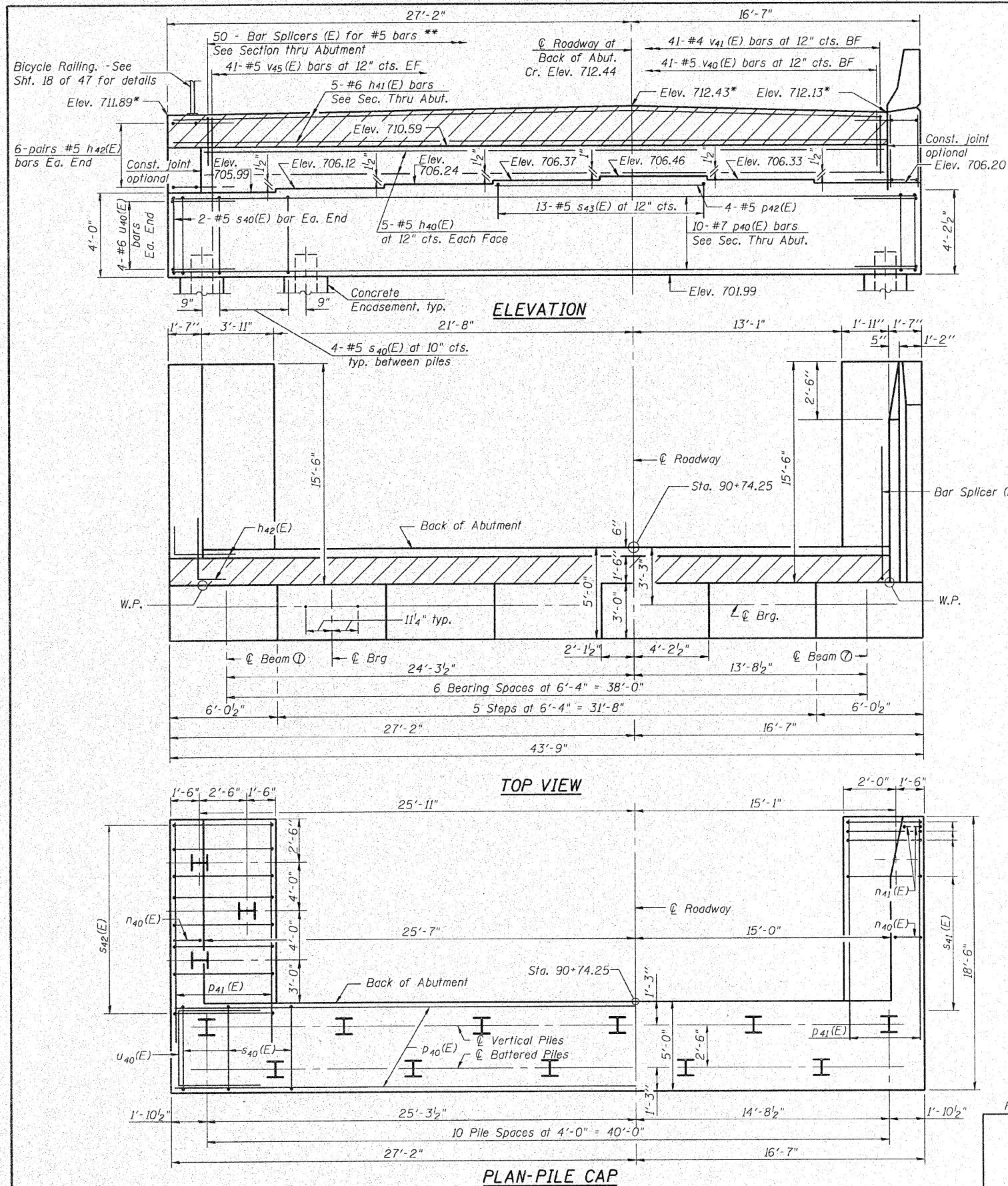
Bar	No.	Size	Length	Shape
d ₁₀ (E)	6	#4	2'-7"	
h ₁₀ (E)	10	#5	40'-3"	
h ₁₁ (E)	5	#6	40'-3"	
h ₁₂ (E)	24	#5	6'-0"	
h ₁₃ (E)	29	#4	15'-3"	
h ₁₄ (E)	9	#4	15'-3"	
n ₁₀ (E)	29	#6	14'-4"	
n ₁₁ (E)	6	#6	7'-3"	
p ₁₀ (E)	10	#7	43'-5"	
p ₁₁ (E)	12	#7	16'-0"	
p ₁₂ (E)	4	#5	12'-4"	
s ₁₀ (E)	44	#5	17'-7"	
s ₁₁ (E)	32	#4	9'-5"	
s ₁₂ (E)	13	#5	7'-8"	
u ₁₀ (E)	8	#6	9'-6"	
v ₁₀ (E)	41	#5	3'-10"	
v ₁₁ (E)	41	#4	3'-6"	
v ₁₂ (E)	16	#6	8'-3"	
v ₁₃ (E)	3	#6	8'-2"	
v ₁₄ (E)	13	#6	8'-7"	
v ₁₅ (E)	82	#5	7'-2"	
v ₁₆ (E)	32	#6	5'-5"	
Structure Excavation			Cu. Yd.	165
Concrete Structures			Cu. Yd.	66.2
Reinforcement Bars, Epoxy Coated			Pound	6050
Furnishing - Piles, HP14x73			Foot	660
Driving Piles			Foot	660
Test Pile, HP 14x73			Each	1
Concrete Encasement			Cu. Yd.	7.1
Concrete Sealer			Sq. Ft.	507
Pile Shoes			Each	12

For details of Bar Splicers, see sheet 33 of 47.
For details of piles and Concrete Encasement,
see sheet 34 of 47.

Notes:
*Haunched 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 11 of 47.*

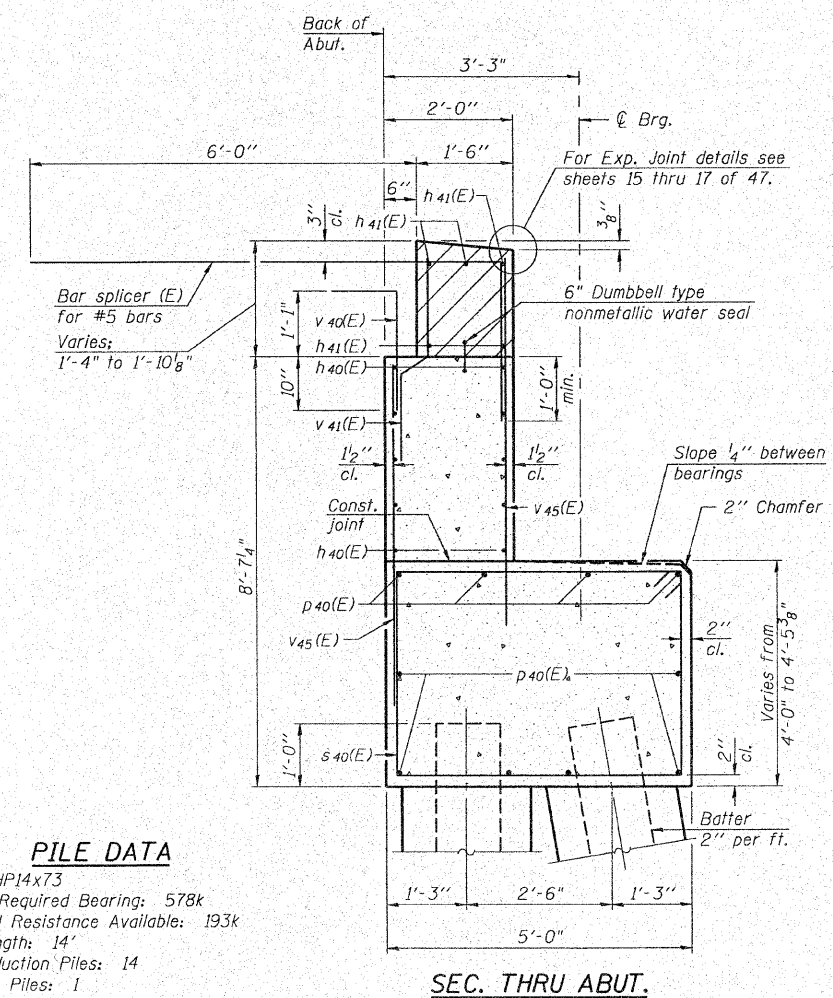
EAST ABUTMENT
STRUCTURE NUMBER 101-3100

PROFESSIONAL DESIGN FIRM LICENSE #184-001084		<u>STRUCTURE NUMBER 101-3100</u>	
 HANSON Hanson Professional Services Inc.	JOB NO. 03R1807	SHEET NO. 27	F.A.U. RTE. 5103
	DATE 10/26/10	47 SHEETS	SECTION 03-00337-00-BR
			COUNTY Winnebago
		TOTAL SHEETS 66	
		SHEET NO. 42	
		CONTRACT NO. 85523	
		ILLINOIS FED. AID PROJECT	



* Elev's given at back of thrust block.

** See Sheet 15 of 47 for layout of Bar Splicers



PILE DATA

Type: HP14x73
Nominal Required Bearing: 578k
Factored Resistance Available: 193k
Est. Length: 14'
No. Production Piles: 14
No. Test Piles: 1

Notes:
Hatched area to be poured after superstructure falsework has been removed. Quantity of concrete included with Concrete Superstructure.
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.

WEST ABUTMENT STRUCTURE NUMBER 101-3100

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

© Copyright Hanson Professional Services Inc. 2010

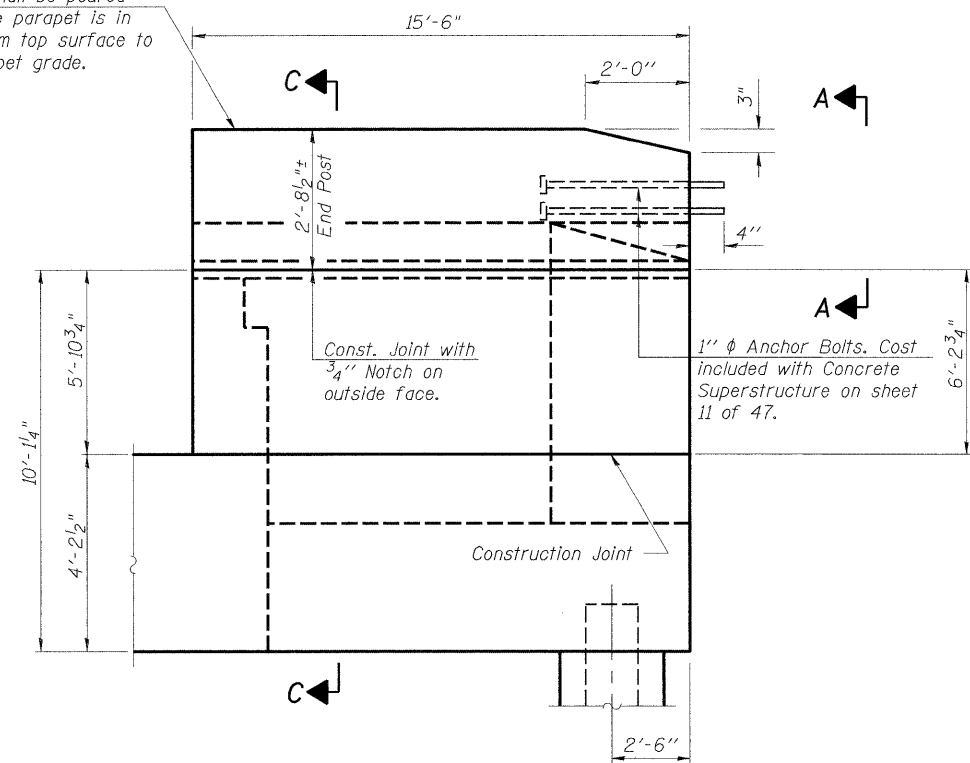


03R1807
11/08/10

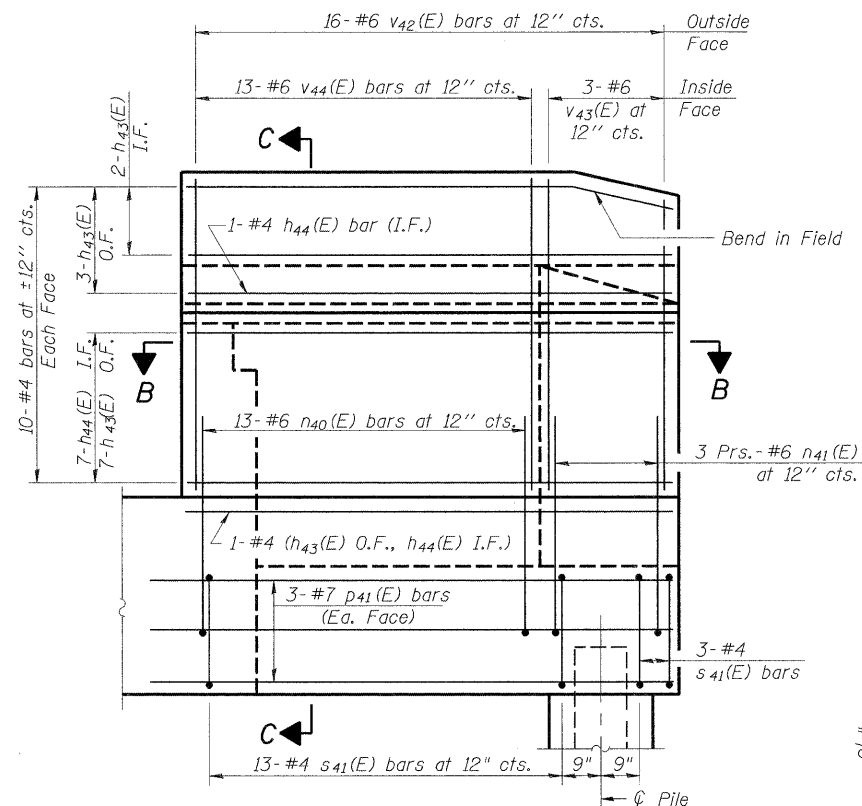
SHEET NO. 28
47 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	43
CONTRACT NO. 85523				
ILLINOIS FED. AID PROJECT				

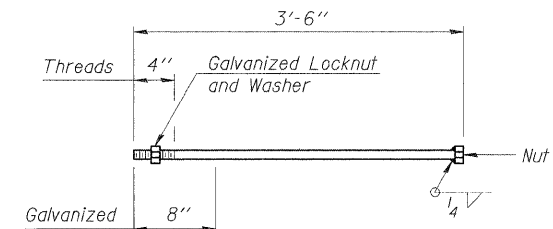
End Post shall be poured after bridge parapet is in place. Form top surface to match parapet grade.



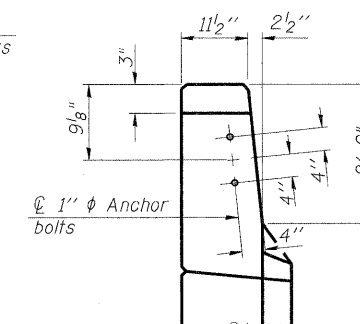
NORTH WING WALL ELEVATION
Showing Dimensions



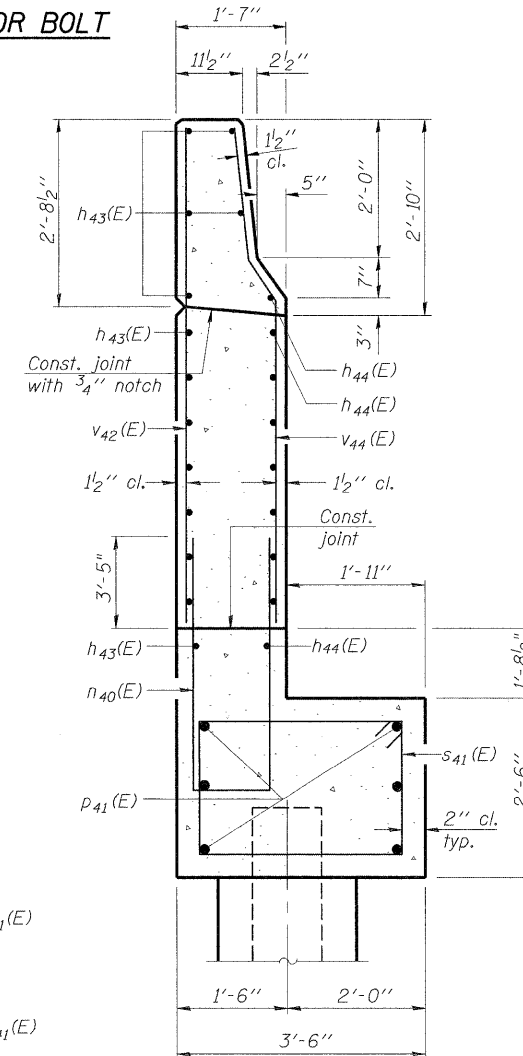
NORTH WING WALL ELEVATION
Showing Reinforcement



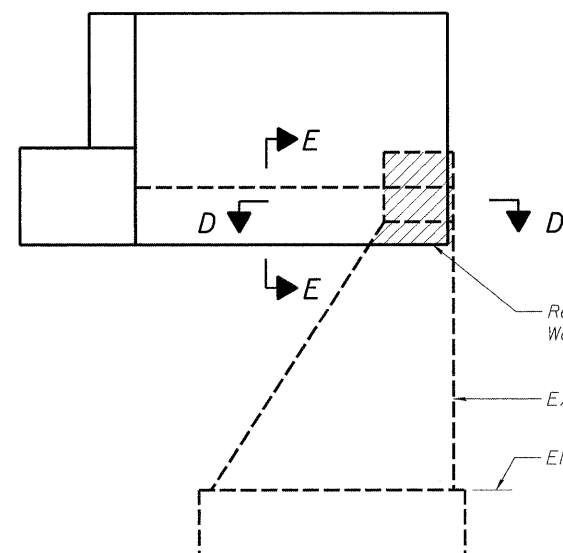
1" ϕ ANCHOR BOLT



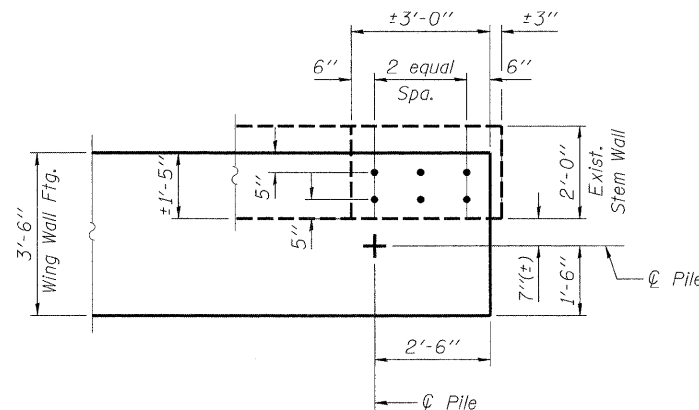
VIEW A-A



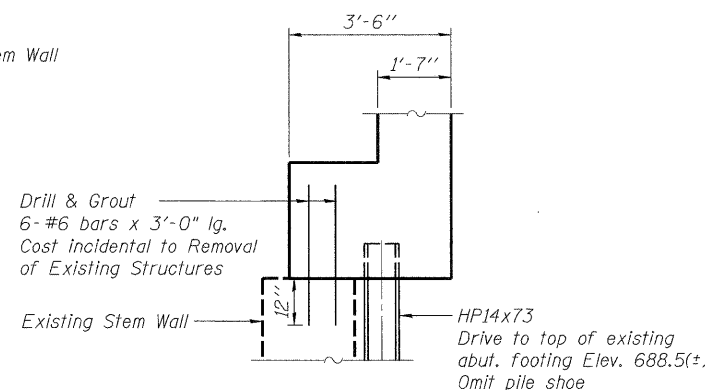
SECTION C-C



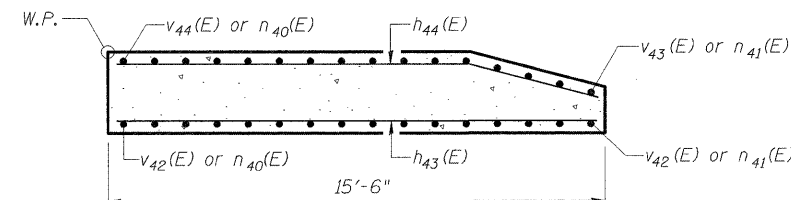
ELEVATION - NW WING WALL



VIEW D-D



VIEW E-E



SECTION B-B

Notes:
Quantity of concrete in end post included with Concrete Superstructure on sheet 11 of 47.
For Concrete Encasement details, see sheet 34 of 47.

**WEST ABUTMENT
STRUCTURE NUMBER 101-3100**

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

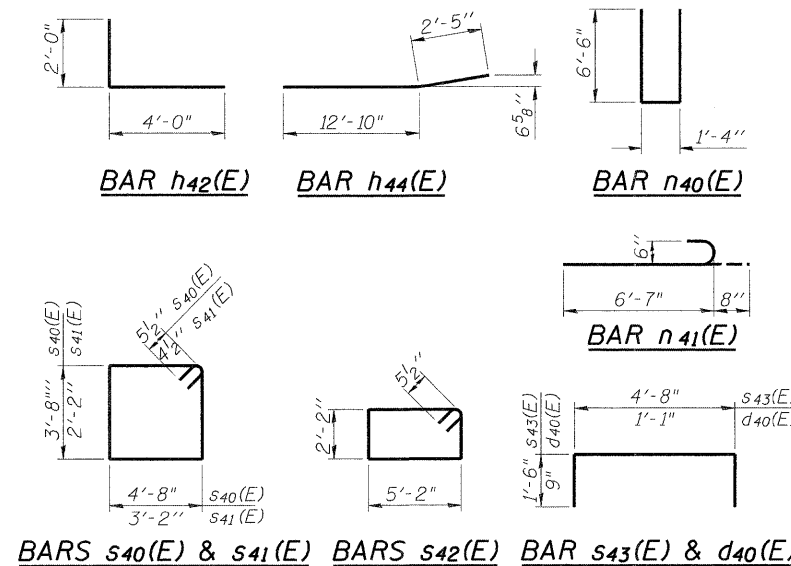
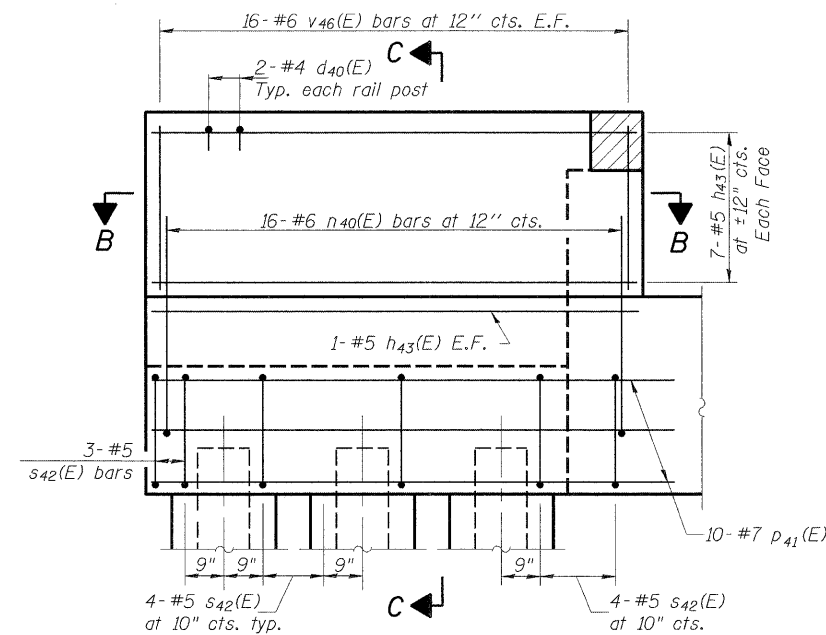
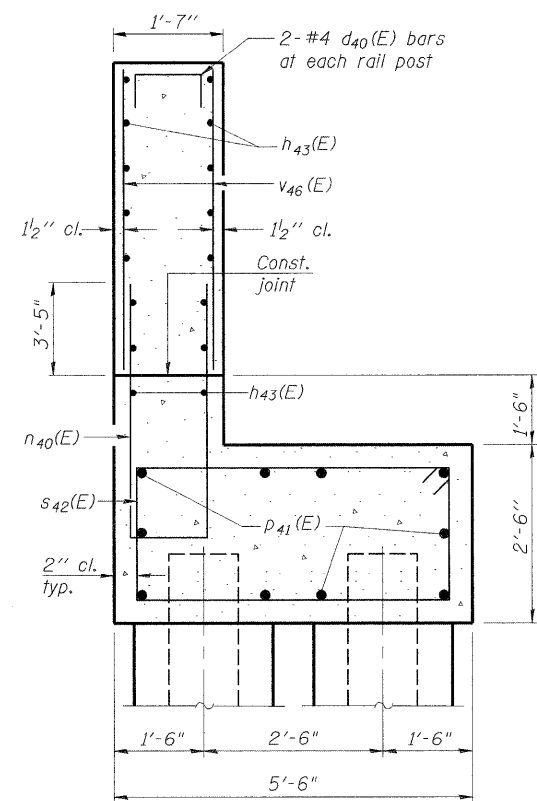
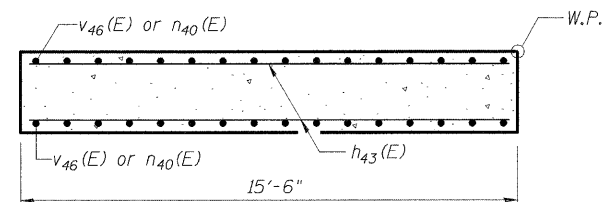
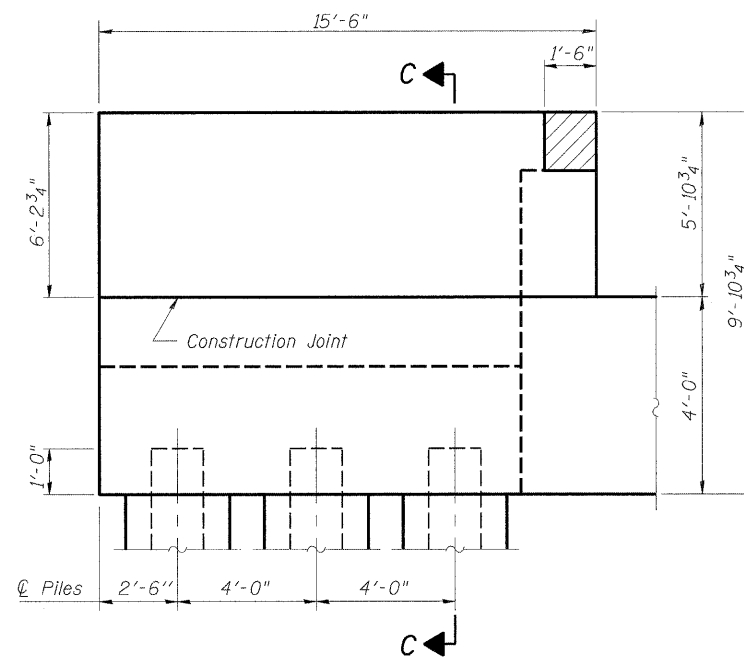
© Copyright Hanson Professional Services Inc. 2010



JOB NO.
03R1807
DATE
10/26/10

SHEET NO. 29
47 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	44
CONTRACT NO. 85523			ILLINOIS FED. AID PROJECT	



WEST ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d40(E)	6	#4	2'-7"	
h40(E)	10	#5	40'-3"	
h41(E)	5	#6	41'-10"	
h42(E)	24	#5	6'-0"	
h43(E)	29	#4	15'-3"	
h44(E)	9	#4	15'-3"	
n40(E)	29	#6	14'-4"	
n41(E)	6	#6	7'-3"	
p40(E)	10	#7	43'-5"	
p41(E)	16	#7	16'-0"	
p42(E)	4	#5	12'-4"	
s40(E)	44	#5	17'-7"	
s41(E)	16	#4	11'-5"	
s42(E)	15	#5	15'-7"	
s43(E)	13	#5	7'-8"	
u40(E)	8	#6	9'-6"	
v40(E)	41	#5	3'-10"	
v41(E)	41	#4	3'-6"	
v42(E)	16	#6	8'-5"	
v43(E)	3	#6	8'-8"	
v44(E)	13	#6	8'-8"	
v45(E)	82	#5	7'-2"	
v46(E)	32	#6	5'-9"	
Structure Excavation			Cu. Yd.	165
Concrete Structures			Cu. Yd.	72.0
Reinforcement Bars, Epoxy Coated			Pound	6370
Furnishing - Piles, HP14x73			Foot	196
Driving Piles			Foot	196
Test Pile, HP 14x73			Each	1
Concrete Encasement			Cu. Yd.	8.2
Concrete Sealer			Sq. Ft.	510
Pile Shoes			Each	13*

* Omit pile shoe on N.W. Wingwall pile.

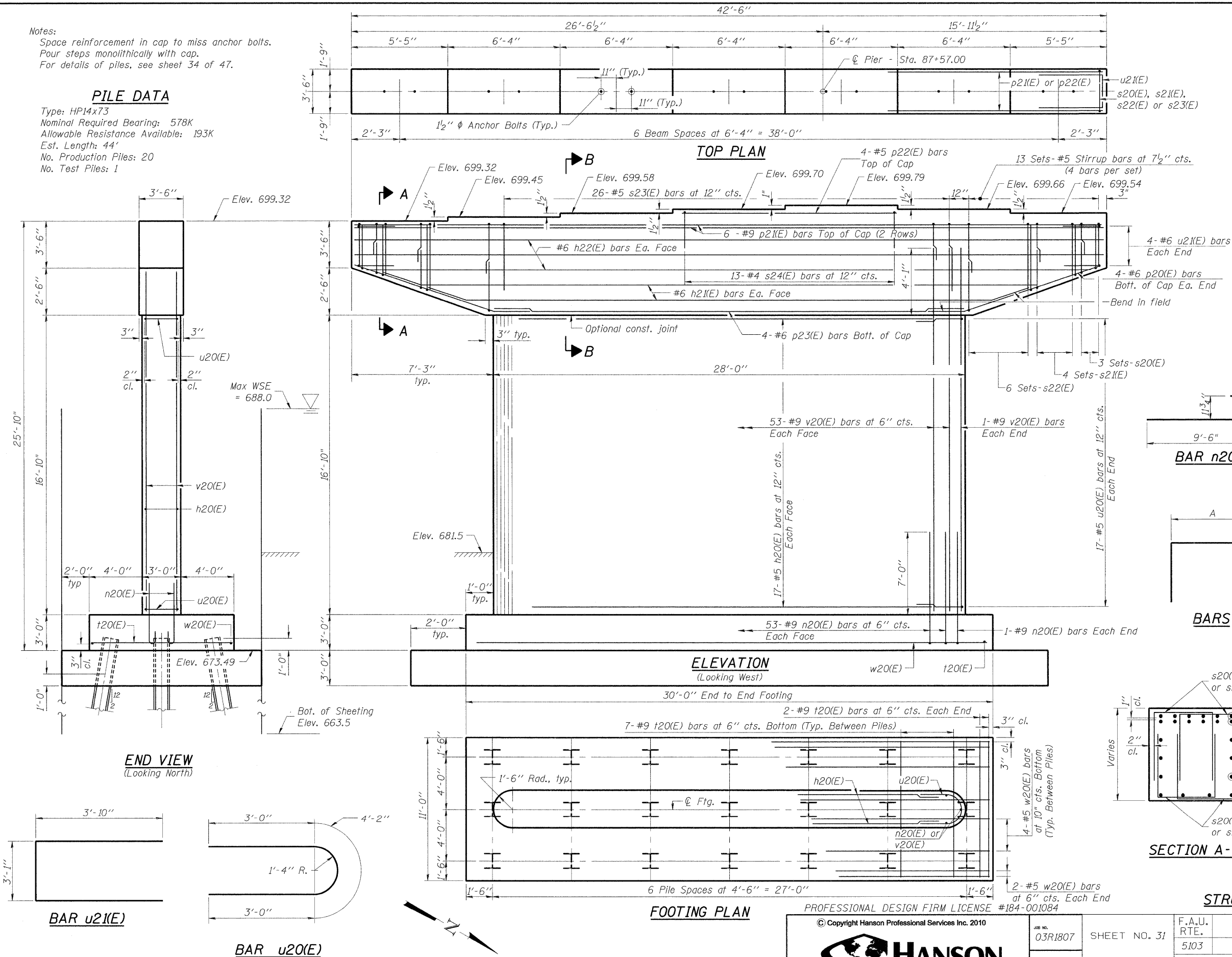
WEST ABUTMENT
STRUCTURE NUMBER 101-3100

PROFESSIONAL DESIGN FIRM LICENSE #184-001084 © Copyright Hanson Professional Services Inc. 2010  HANSON Hanson Professional Services Inc.		JOB NO. 03R1807	SHEET NO. 30 47 SHEETS	F.A.U. RTE. 5103	SECTION 03-00337-00-BR	COUNTY Winnebago	TOTAL SHEETS 66	SHEET NO. 45
				CONTRACT NO. 85523				
				ILLINOIS FED. AID PROJECT				

Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 34 of 47.

PILE DATA

Type: HP14x73
Nominal Required Bearing: 578K
Allowable Resistance Available: 193K
Est. Length: 44'
No. Production Piles: 20
No. Test Piles: 1



PIER BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h20(E)	34	#5	24'-6"	—
h21(E)	4	#6	36'-6"	—
h22(E)	6	#6	42'-2"	—
n20(E)	108	#9	10'-9"	—
p20(E)	8	#6	10'-10"	—
p21(E)	12	#9	42'-2"	—
p22(E)	4	#5	12'-4"	—
p23(E)	4	#6	28'-0"	—
s20(E)	24	#5	8'-4"	—
s21(E)	32	#5	9'-4"	—
s22(E)	48	#5	10'-4"	—
s23(E)	26	#5	13'-2"	—
s24(E)	13	#4	6'-2"	—
t20(E)	46	#9	10'-6"	—
u20(E)	34	#5	10'-2"	—
u21(E)	8	#6	10'-9"	—
v20(E)	108	#9	20'-10"	—
w20(E)	12	#5	29'-6"	—
Cofferdam Excavation	Cu. Yd.	207.8		
Concrete Structures	Cu. Yd.	120.1		
Reinforcement Bars, Epoxy Coated	Pound	19,100		
Furnishing - Piles, HP14x73	Foot	880		
Driving Piles	Foot	880		
Test Pile, HP14x73	Each	1		
Seal Coat Concrete	Cu. Yd.	56.7		
Pile Shoes	Each	20		

BAR n20(E)

BARS

A & B DIMENSIONS

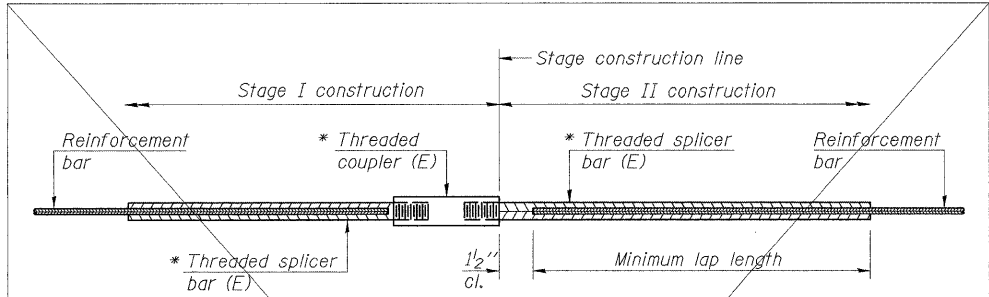
Bar	A	B
s20(E)	2'-0"	3'-2"
s21(E)	2'-0"	3'-8"
s22(E)	2'-0"	4'-2"
s23(E)	3'-2"	5'-0"
s24(E)	3'-2"	1'-6"

SECTION A-A

SECTION B-B

PIER #1 - EAST STRUCTURE NUMBER 101-3100

PROFESSIONAL DESIGN FIRM LICENSE #184-001084	© Copyright Hanson Professional Services Inc. 2010	JOB NO. 03R1807	SHEET NO. 31	F.A.U. RTE. 5103	SECTION 03-00337-00-BR	COUNTY Winnebago	TOTAL SHEETS 66	SHEET NO. 46
DATE 10/26/10				CONTRACT NO. 85523				
ILLINOIS FED. AID PROJECT								



STANDARD BAR SPLICER ASSEMBLY

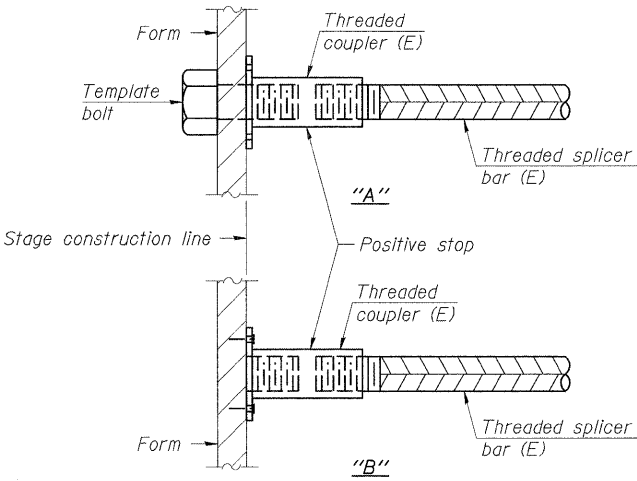
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

Table 1: Black bar, 0.8 Class C
Table 2: Black bar, Top bar lap, 0.8 Class C
Table 3: Epoxy bar, 0.8 Class C
Table 4: Epoxy bar, Top bar lap, 0.8 Class C
Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

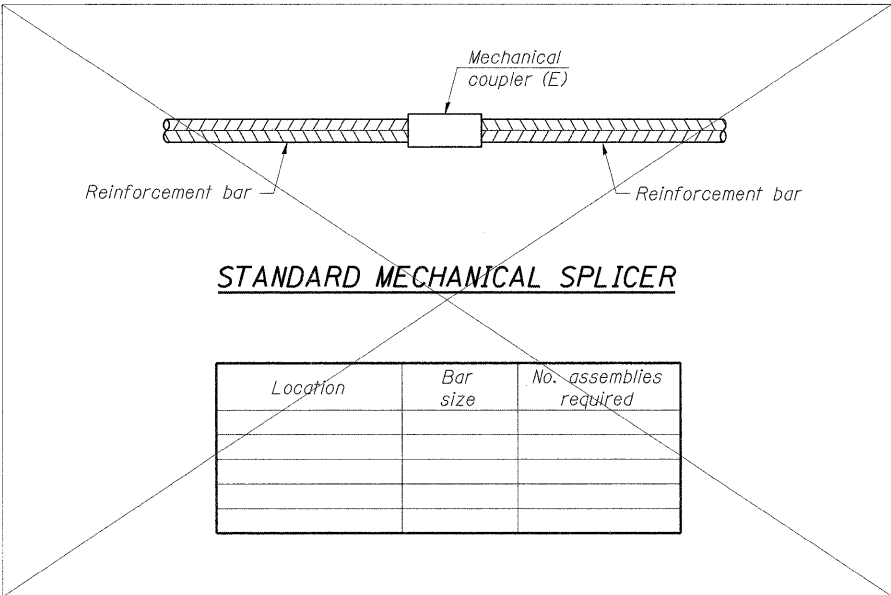
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



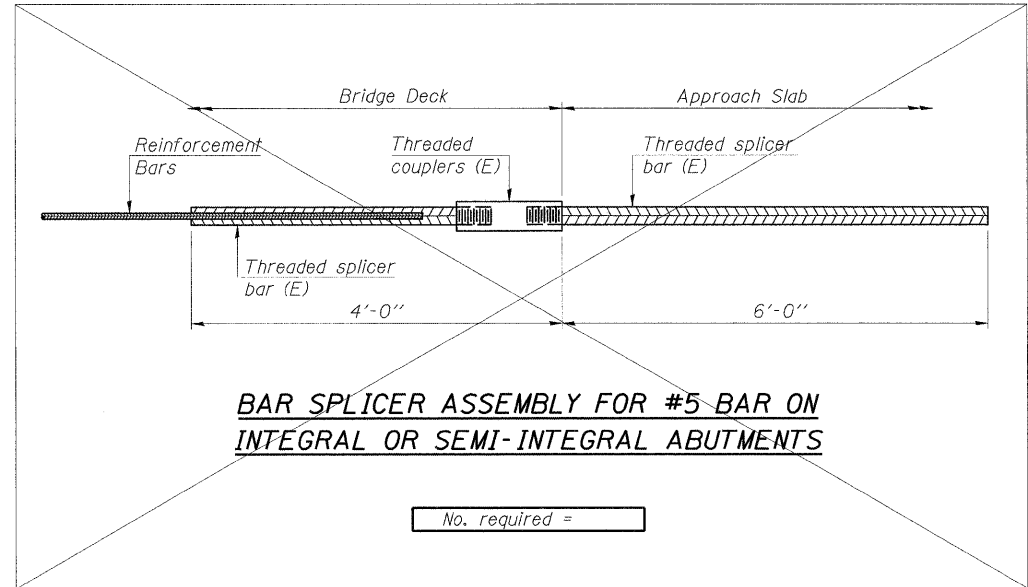
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



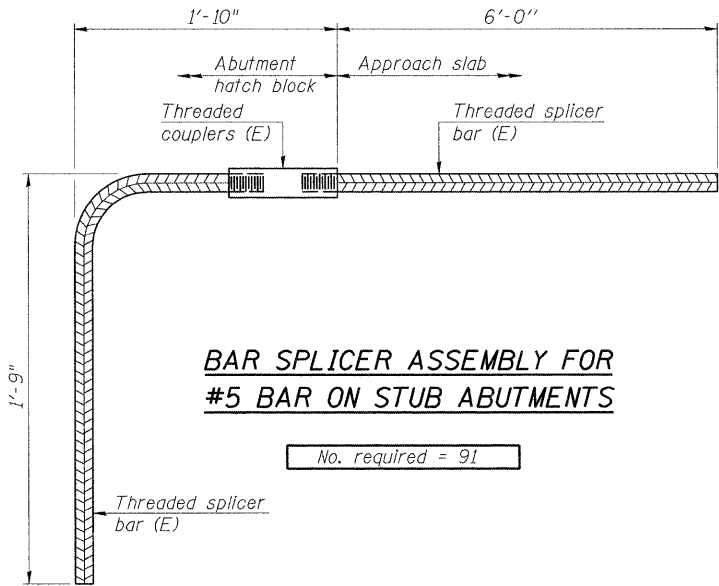
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 91

NOTES

Splicer bars shall be deformed with Threaded ends and have a minimum 60 ksi yield strength.
All reinforcement shall be lapped and tied to the splicer bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
See special provision for Mechanical Splicers.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NUMBER 101-3100

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

© Copyright Hanson Professional Services Inc. 2010



JOB NO.

03R1807

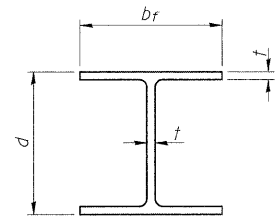
DATE

10/26/10

SHEET NO. 33

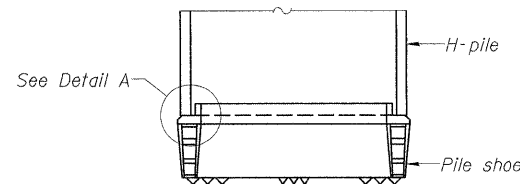
47 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	48
CONTRACT NO. 85523				
ILLINOIS FED. AID PROJECT				

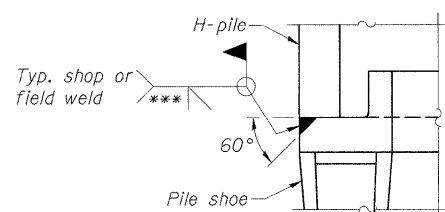


STEEL PILE TABLE

Designation	Depth d	Flange width b _f	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 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"

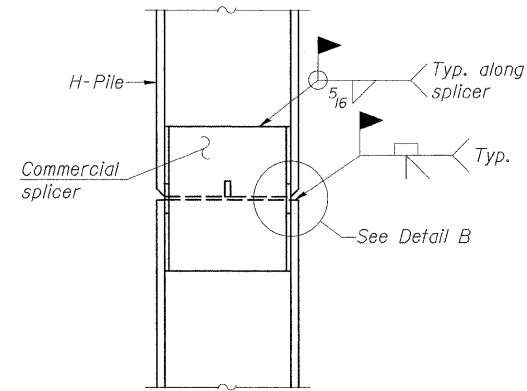


ELEVATION

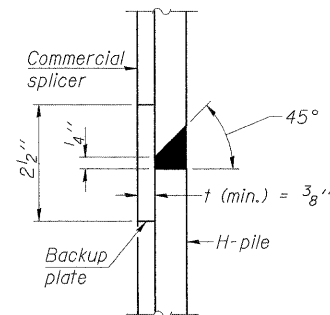


DETAIL A

H-PILE SHOE ATTACHMENT

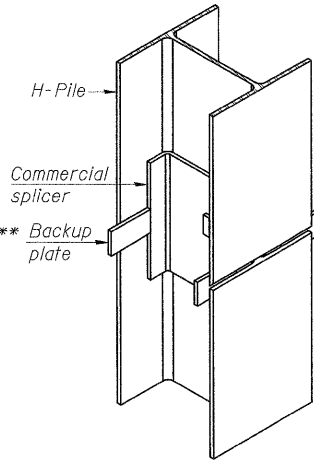


ELEVATION

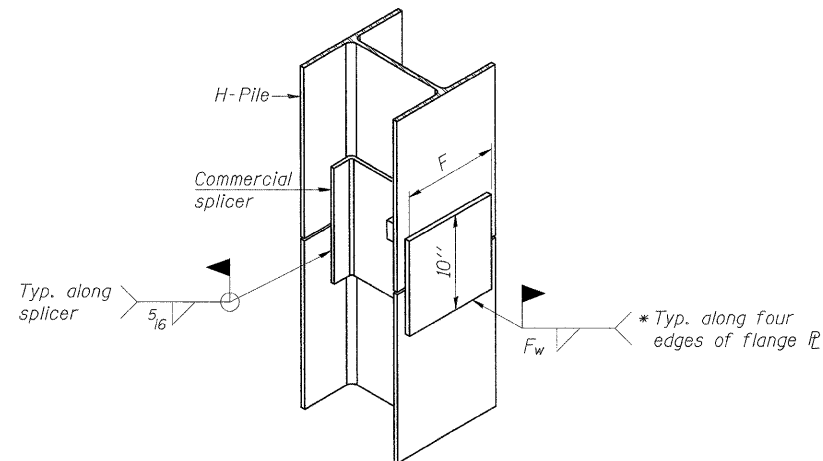


DETAIL "B"

WELDED COMMERCIAL SPLICE



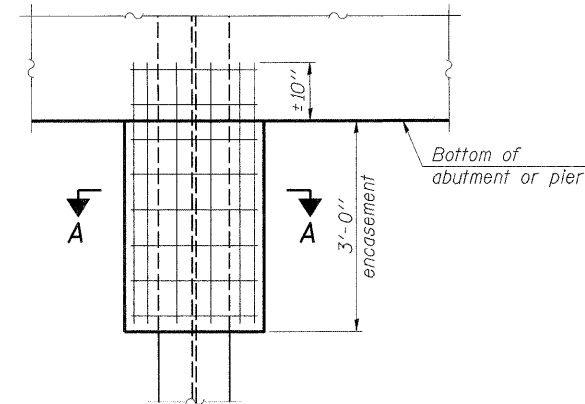
ISOMETRIC VIEW



ISOMETRIC VIEW

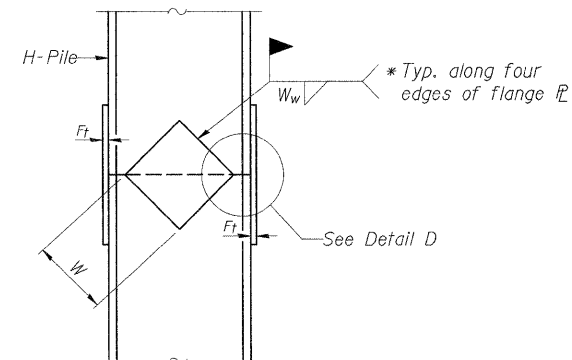
WELDED COMMERCIAL SPLICE ALTERNATE

- * 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.).

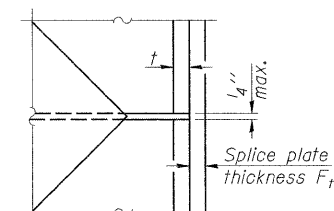


ELEVATION

PILE ENCASEMENT

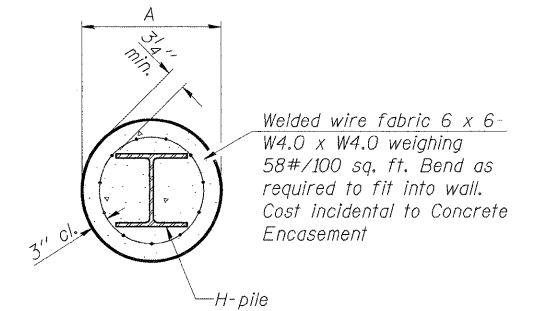


ELEVATION



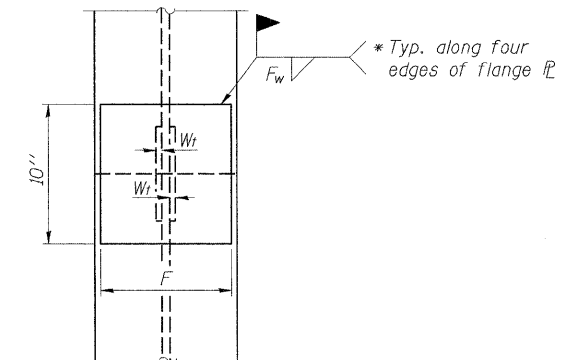
DETAIL D

WELDED PLATE FIELD SPLICE



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

SECTION A-A



END VIEW

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 1/2"	1 1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 1/2"	1 1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5 1/2"	1 1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 1/2"	1 1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5 1/2"	1 1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5 1/2"	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.

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

© Copyright Hanson Professional Services Inc. 2010



JOB NO.

03R1807

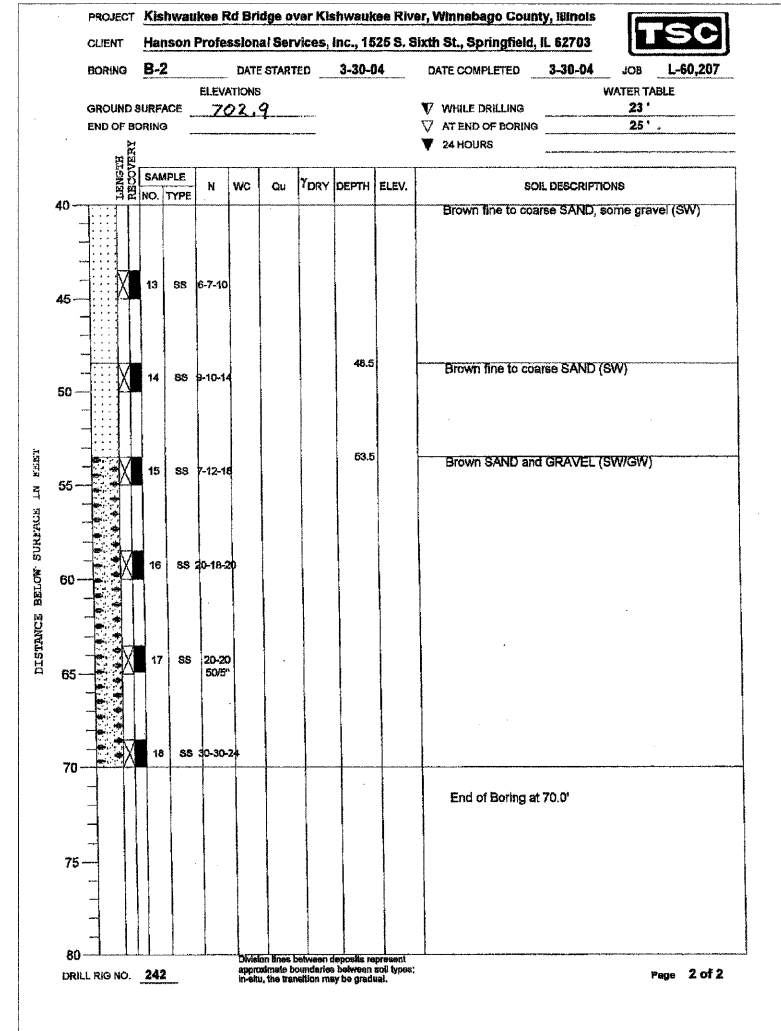
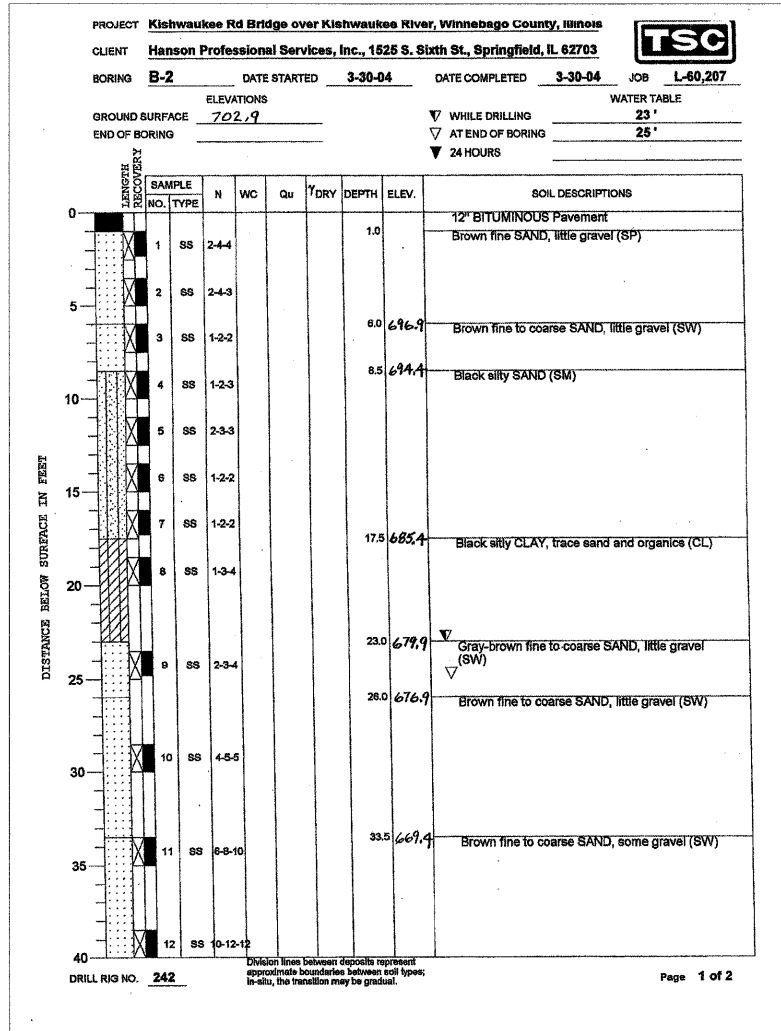
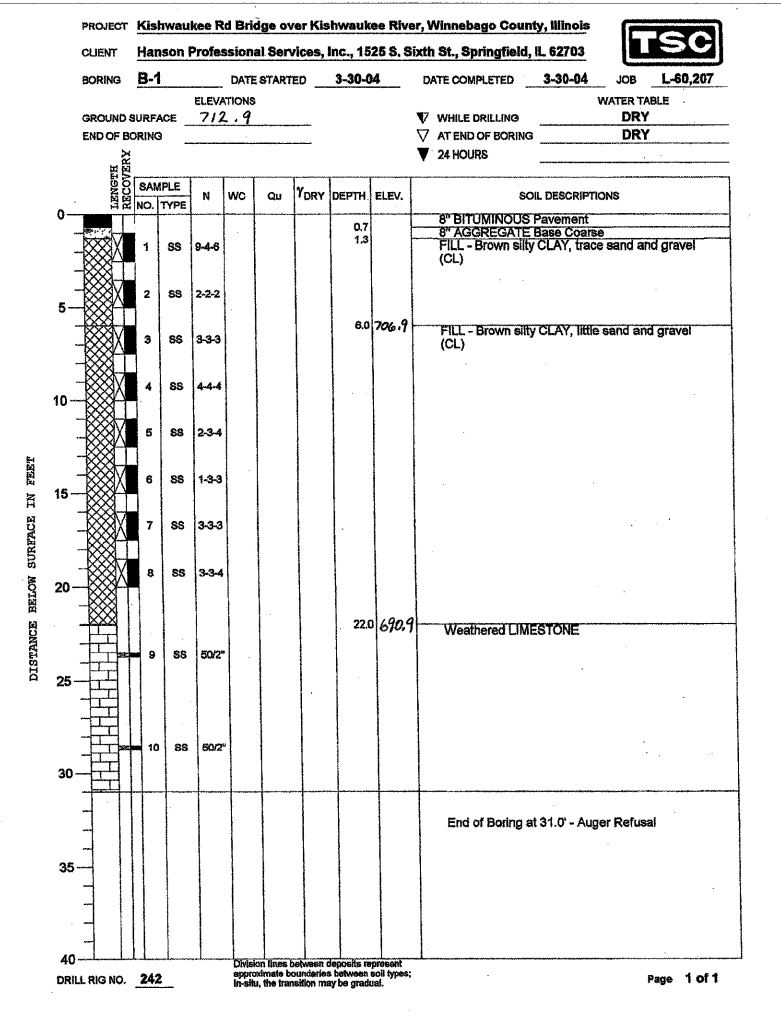
DATE

10/26/10

SHEET NO. 34

47 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	49
CONTRACT NO. 85523			ILLINOIS FED. AID PROJECT	



BORING LOGS
STRUCTURE NUMBER 101-3100

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

© Copyright Hanson Professional Services Inc. 2010



JOB NO.
03R1807

DATE
10/26/10

SHEET NO. 35

47 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	50
CONTRACT NO. 85523				
ILLINOIS FED. AID PROJECT				

Project No. 03R1807		LOG OF BOREHOLE NO. B-3				Sheet 2 of 2				
CLIENT		ARCHITECT/ENGINEER								
SITE		PROJECT								
Winnebago County, Illinois		Kishwaukee River Bridge								
		GRAPHIC LOG	SAMPLES				TESTS			ADDITIONAL DATA/REMARKS
			DEPTH (ft)	SLUGGER N-VALUE LOG	NUMBER	TYPE	RECOVERED (in) LTH SMPLED (in)	MOISTURE %	DRY DENSITY (pcf)	
(continued)										
Brown fine to coarse sand & fine to medium gravel, little fractured limestone. (continued)										
		32.5								
		35.0	11-36 32 N=68	SS-11	SS	18/18 100%	10			
		37.5								
		40.0	12-14 18 N=30	SS-12	SS	18/18 100%	8			
		42.5								
		45.0	8-10 10 N=20	SS-13	SS	18/18 100%	11			
		47.5								
		50.0	10-18 50ft	SS-14	SS	13/13 100%				
52.0	629.6									
End of Boring on Boulder.										
		52.5								
		55.0								

WATER LEVEL OBSERVATIONS



HANSON

Hanson Professional Services Inc.

Springfield, Illinois

STARTED

FINISHED

DRILL CO.

DRILL RIG

DRILLER

ASST DRILLER

LOGGED BY

APPROVED

ILLINOIS	FED. AID PROJECT
----------	------------------

A detailed cross-section diagram of a bridge over a river channel. The diagram shows the bridge structure with piers labeled "Pier 1" through "Pier 6". Below the bridge, the river channel is shown with various features like "Channel Excavation", "Sandy Loam", "Gravel & coarse sand", and "Broken Limestone". Elevation points are marked throughout, such as "Elev. 78.51", "Elev. 75.0", "Elev. 66.80", "Elev. 65.75", "Elev. 77.10", "Elev. 92.0", "Elev. 88.5", "Elev. 80.0", and "Elev. 84.0". Slopes are indicated as "2:1 Slope" and "1:1 Slope". A scale bar at the bottom indicates "Scale: 1\" = 20\".

NOTE:
Channel shall be excavated by the contractor for Section 78.8 for a distance of 80 feet each side of E of Roadway.
Excavated material shall be used to construct Embankment of East Abutment.

EAST ABUTMENT
Embankment 1445 Cu.Yds.
Channel Excavation 4190 Cu.Yds.

WEST ABUTMENT
Embankment 2250 Cu.Yds.
Earth Excavation 2910 Cu.Yds.

LETTERING ON NAME PLATE
STATION 10+00
BUILT 1945
FAS REC-85
E.A. PROJECT 7-88(5)
LOADING 1100
See Structural 7003

SLOPE WALL DETAIL
6a. Welded Wire Fabric
6 x 6 mesh 20' x 20' Sp. 12

LETTERING ON NAME PLATE

STATION 10-44
BUILT 1949
FA 3 RLB 88 SECTION 75B
FA DISTRICT 5-6415
LOADING 11:30

DEFINITIONS

fc = 1000 ft - 5 ft/sec
fs = 800 ft - 5 ft/sec
fs = 18000 ft - 5 ft/sec
fs = 20000 ft - 5 ft/sec
fs = 10

H2O - 44 Loading

Figure 1 is a cross-section diagram of a coastal profile. The horizontal axis is labeled "Daring" and has five points: 1 (86°26'), 2 (87°29'), 3 (88°57'), 4 (89°54'), and 5 (90°55'). The vertical axis represents elevation in feet, with markings at 10, 20, 30, 40, 50, 60, 70, 80, and 90. The profile shows several distinct layers and features:

- Black Loam**: A layer at the top, with elevations of 83.2, 78.5, 75.6, and 73.3.
- Gravel & Coarse Sand**: A layer below the Black Loam, with elevations of 70.6, 68.4, 63.8, and 58.2.
- Yellow Sand and Gravel packed**: A layer at the bottom, with elevations of 41.5, 36.6, and 26.8.
- Curved Gravel**: A feature on the right side, with an elevation of 64.
- Gravel Limestone**: A feature in the middle, with an elevation of 56.3.
- Lime Stone**: A feature at the bottom right, with an elevation of 58.

The profile is drawn with a grid and includes various annotations and measurements.

APPROVED O. R. Lester
COUNTY SUPERVISOR - DISTRICT HIGHWAYS
EXAMINED 9-22-54 (5-2-54)
STANDARD INSPECTOR
PASSED [Signature]
ENGINEER OF DESIGN
APPROVED [Signature]
CITY HIGHWAY ENGINEER
Revised 10/1/54 - Copeland Pay Items

Item	Unit	Super.	Sub.	1916 Sec. 75.2	Sec. 75.1
Class-A Concrete	CuYds.	382.5	125.5	\$26.1	
Class-A Concrete	CuYds.		362.3	\$26.1	
Structural Steel	Lbs.	676,390		\$76,980	\$76,290
Reinforcement Bars	Lbs.	66,920	4,320	187,760	
Handrail Concrete	CuYds.	4.1	5.2	2.8	
Unreated Piling (25' long)	Lineal		2,770	13,310	
Rock Excavation for Retaining Wall	CuYds.		36	2	
Unreated Test Piles	Each		1	4.00	
Slope Wall	SqYds.				4,190
Channel Excavation	CuYds.				4,190
Removal Existing Structure	Each				2,220
Tree Removal	Acres				2.2
C&G Frames & Girders	Each	1			
Collar for Pier	Each		1		
Gravel for Pier	Each				
Gravel for Pier	Each		37	37	
Gravel for Pier	CuYds.		156.2	156.2	
Soil Cost Concrete	CuYds.				
Water Main	Each				
Water Main	SqYds.				
Water Main	Each				

[illegible]

WATERWAY DATA

Interco Area	799,000 Acres
Water	Rolling
seal Opening	3750 Sq. Ft.
podded Opening	4287 Sq. Ft.

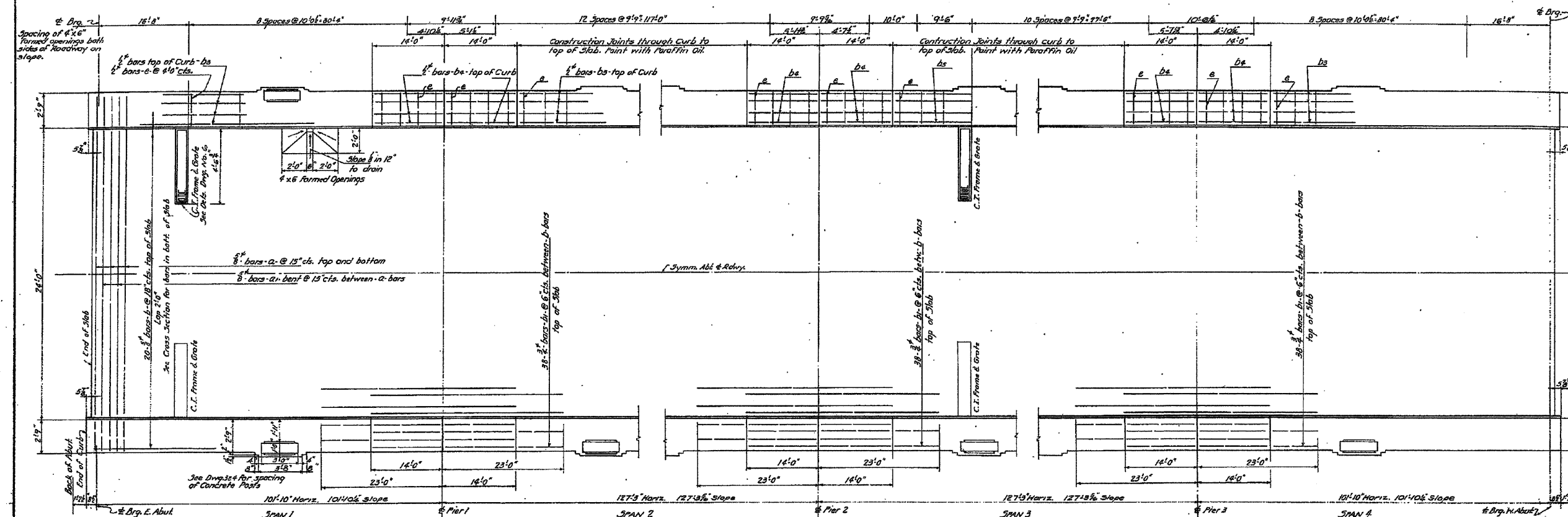
KISHNAUKKEE RIVER BRIDGE
PROJECT 3 G4G
PA 5 RT 18 - 54 RT 6
SECTION 75 D F
WINNEBAGO COUNTY
STATION 284.57

© Copyright Hanson Professional Services Inc. 2010

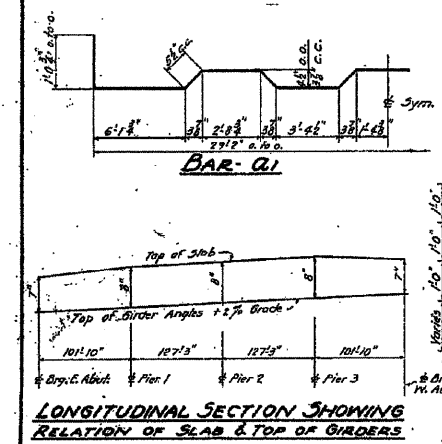


JOB NO. 03R1807	SHEET NO. 38	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		5103	03-00337-00-BR	Winnebago	66	53
DATE 10/26/10		47 SHEETS	CONTRACT NO. 85523			
		ILLINOIS		FED. AID PROJECT		

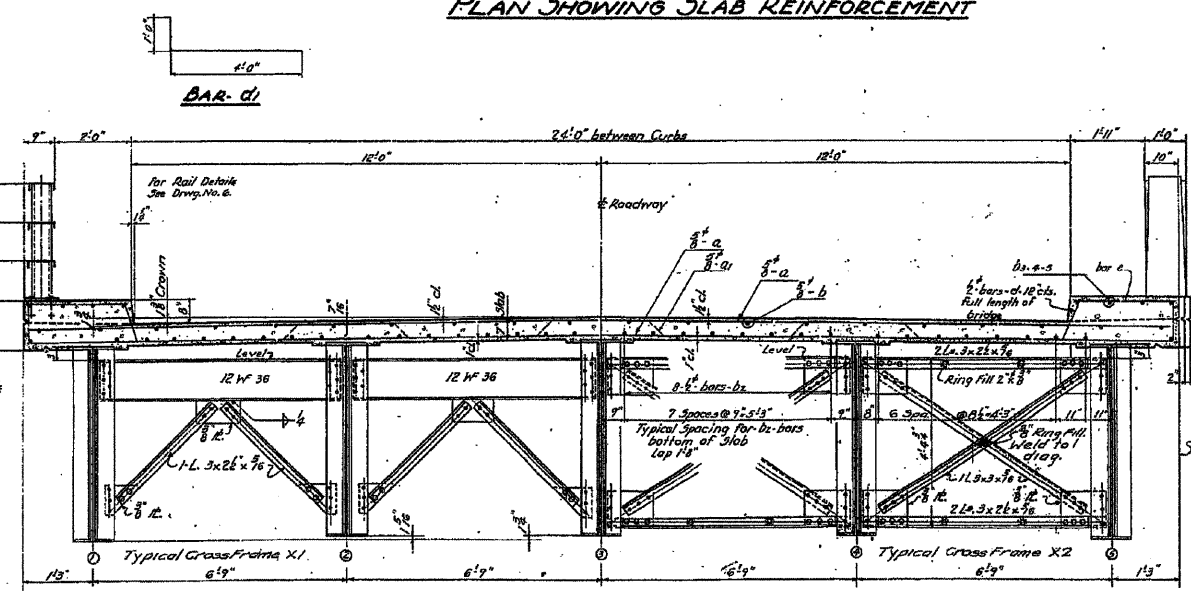
FOR REFERENCE ONLY



PLAN SHOWING SLAB REINFORCEMENT

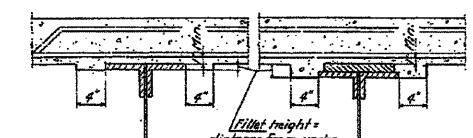


LONGITUDINAL SECTION SHOWING RELATION OF SLAB & TOP OF GIRDERS

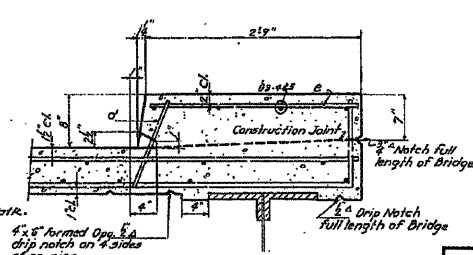


HALF CROSS SECTION AT ABUTMENTS

INTERIOR CROSS SECTION



TOP FLANGE ENCASEMENT



WALK & FORMED OPENING

BILL OF MATERIALS

BAR NO.	SIZE	LENGTH	QTY
2	3/4"	29'5"	1
3	3/4"	32'0"	1
4	3/4"	27'5"	1
5	3/4"	37'0"	1
6	3/4"	27'5"	1
7	3/4"	29'5"	1
8	3/4"	13'6"	1
9	3/4"	26'0"	1
10	3/4"	1'0"	1
11	3/4"	5'0"	1
12	3/4"	2'0"	1
13	3/4"	2'0"	1
14	3/4"	2'0"	1

CLASS	QTY
Class II Concrete	10.00
Reinforcement Bars	10.00
C.I. Frames & Grates	10.00
Structural Steel	10.00

Note: Cut slab bars in field of C.I. and Grates.

SLAB DETAILS
KISHWAUKEE RIVER BRIDGE
PROJECT 5-64(G)
FA.3 RTE. 88 SA. RTE. 3
SECTION 75-01
WINNEBAGO COUNTY
STATION 88+57

ALFRED BENESCH & ASSOCIATES
CONSULTING ENGINEERS
38 EAST ADAMS ST. CHICAGO 3, ILL.

EXISTING DRAWING
STRUCTURE NUMBER 101-3100

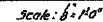
FOR REFERENCE ONLY

PROFESSIONAL DESIGN FIRM LICENSE #184-001084



© Copyright Hanson Professional Services Inc. 2010
JOB NO. 03R1807
SHEET NO. 39
DATE 10/26/10
47 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	54
CONTRACT NO. 85523				
ILLINOIS FED. AID PROJECT				



ILLINOIS	FED. AID PROJECT
----------	------------------



APPROVED A. R. Masters
COUNTY SUPERINTENDENT OF HIGHWAYS

EXAMINED [Signature]
BRIDGE ENGINEER

PASSED [Signature]
ENGINEER OF DESIGN

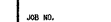
APPROVED C. M. Haskins
COUNTY HIGHWAY ENGINEER

STEEL FRAMING PLANS DETAILS
KISHWAUKEE RIVER BRIDGE
PROJECT 3-64(G)
F.A.S. RTE. 88 S.A. RTE. 3
SECTION 75-B.F.
WINNEBAGO COUNTY
STATION 88+57

EXISTING DRAWING
STRUCTURE NUMBER 101-3100

FOR REFERENCE ONLY

© Copyright Hanson Professional Services Inc. 2010



JOB NO.

0.3R1807

--	--

SHEET NO. 41

47 SHEETS

F.A.U. RTE.	5103
----------------	------

SECTION
03-00337-00-BR

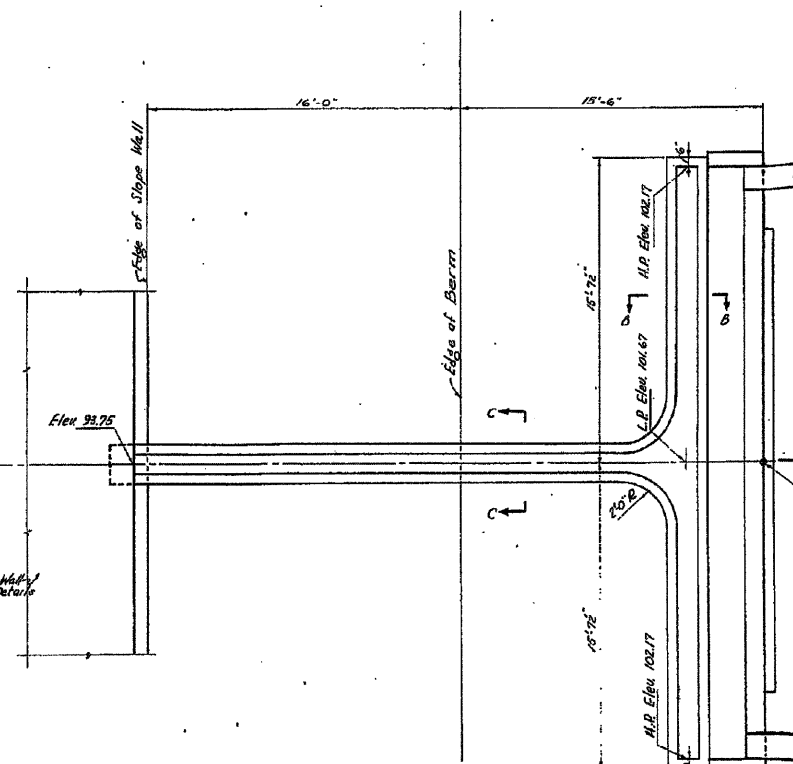
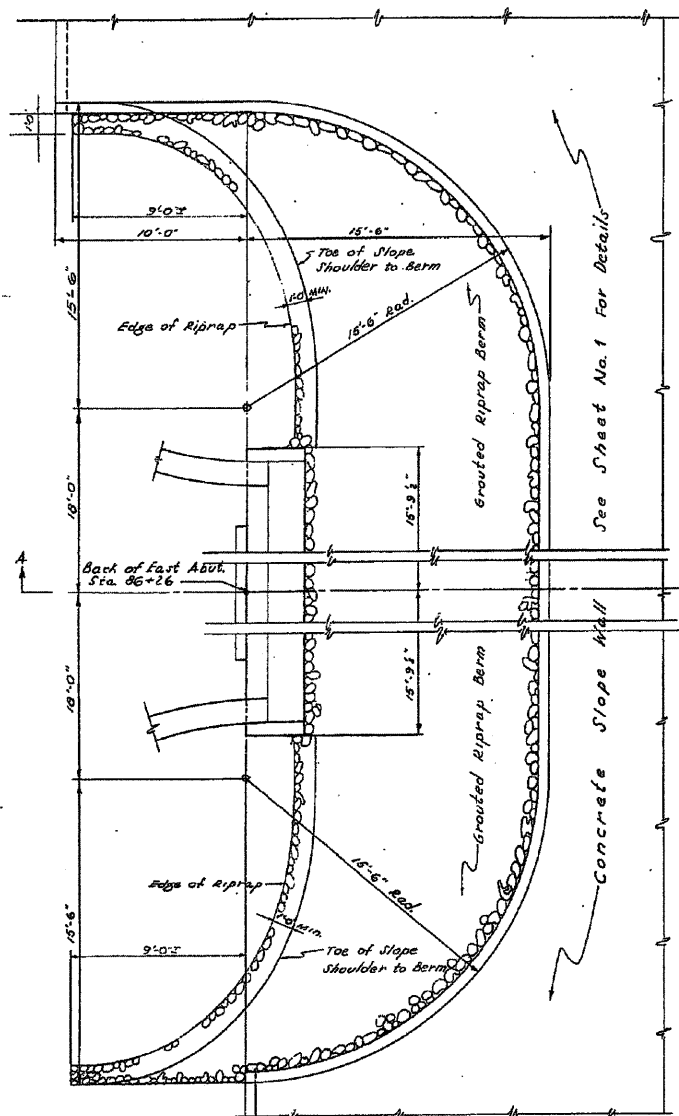
COUNTY	TOTAL SHEETS	SHEET NO.
<i>Winnebago</i>	66	56

CONTRACT NO.	85523
--------------	-------

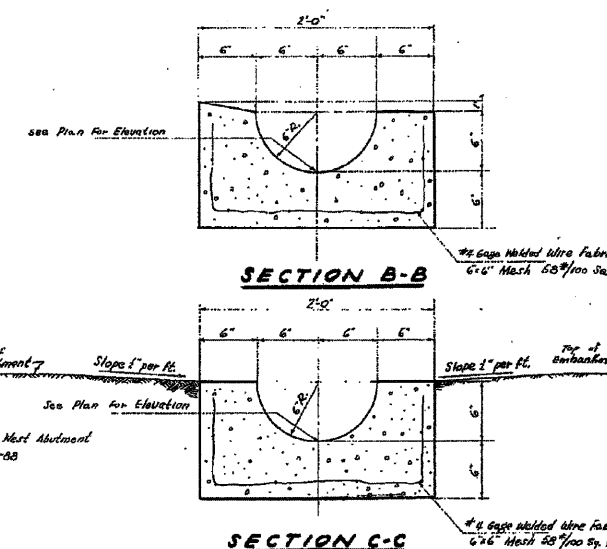
ILLINOIS	FED. AID PROJECT
----------	------------------

FRS. 08	75B	Winnebago	14	0
75F				

SHEET NO. 8
SHEETS 18



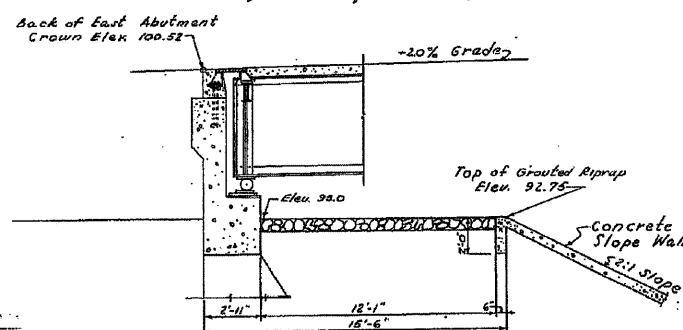
PLAN OF GUTTER AND GROUTED RIPRAP BERM
AT ABUTMENTS



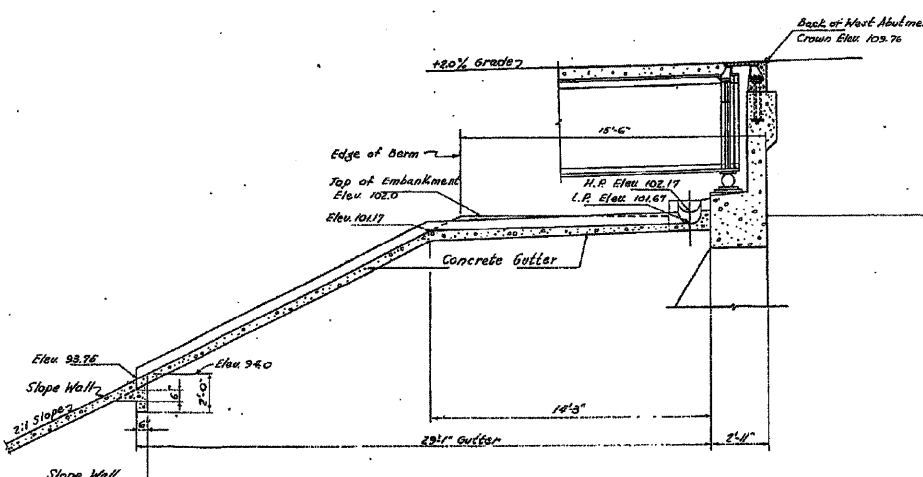
NOTES

Concrete Gutters shall be class "X" concrete. Estimated quantity 26 cu. yds. included in quantity of class "X" concrete in Bill of Materials on Sheet No. 1 of 12. Cost of furnishing Welded Wire Fabric shall be included in contract unit price for class "X" concrete. Estimated quantity of Grouted Riprap - 85 cu. yds.

APPROVED
COUNTY SUPERINTENDENT OF HIGHWAYS
EXAMINED
BRIDGE ENGINEER
PASSED
DESIGNER
APPROVED
CHIEF HIGHWAY ENGINEER



LONGITUDINAL SECTION A-A



**GROUTED RIPRAP AND
CONCRETE GUTTER AT ABUTMENTS
KISHWAUKEE RIVER BRIDGE
PROJECT S-64(3)
F.A.S. RTE 88 S.A. RTE. 3
SECTION 75-B
WINNEBAGO COUNTY
STATION 88+57**

ALFRED BENESCH & ASSOCIATES
CONSULTING ENGINEERS
35 EAST ADAMS ST. CHICAGO 3, ILL.

EXISTING DRAWING
STRUCTURE NUMBER 101-3100

FOR REFERENCE ONLY

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

© Copyright Hanson Professional Services Inc. 2010



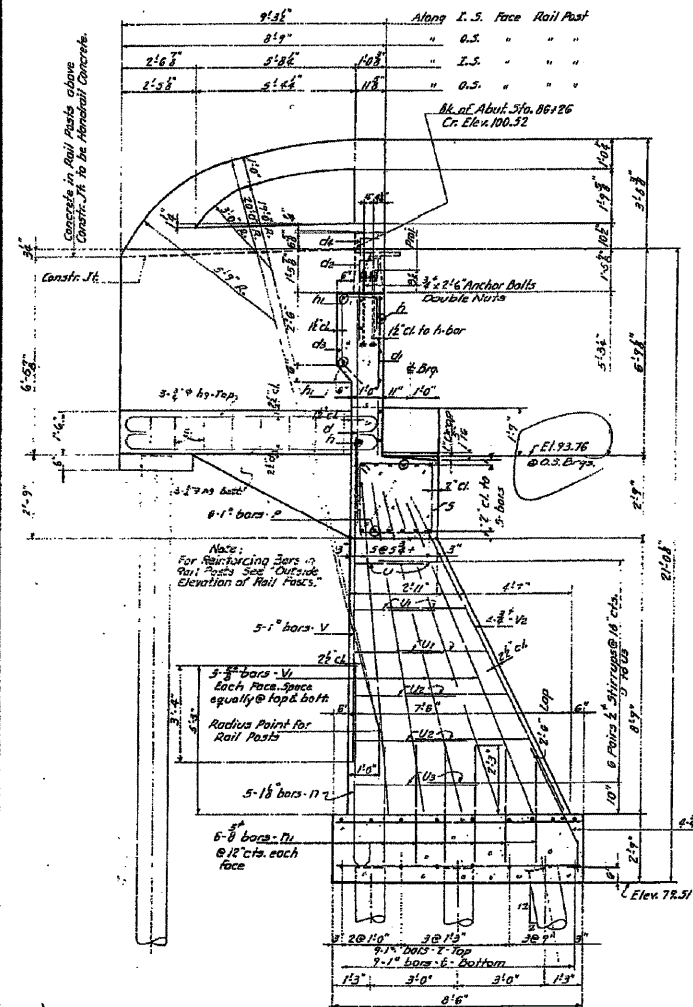
Hanson Professional Services Inc.

JOB NO.
03R1807
DATE
10/26/10

SHEET NO. 42
47 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	57
CONTRACT NO. 85523			ILLINOIS FED. AID PROJECT	

LAYOUT
DRAWN
REVIEWED
10/25/2010
10/25/2010
10/25/2010
10/25/2010



SECTION THRU ABUTMENT & INSIDE ELEVATION OF RAIL POSTS

- Indicates 10 Ton Pile, Estimated Length 35'-0" - 2 Required-Treated
- Indicates 18 Ton Pile, Estimated Length 25'-0" - 16 Required-Treated
- Indicates 20 Ton Pile, Estimated Length 25'-0" - 16 Required-Treated

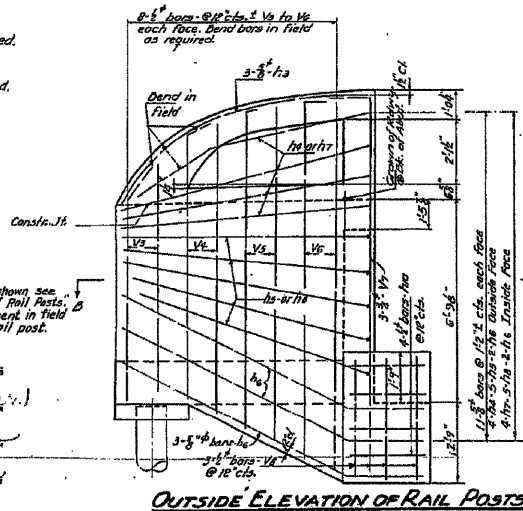
Note: For dimensions not shown see
Traverse Elevation of Rail Posts.
Horns bars to be bent in field
for curvature of rail post.

APPROVED: *[Signature]*
COUNTY SUPERVISOR OF HIGHWAYS

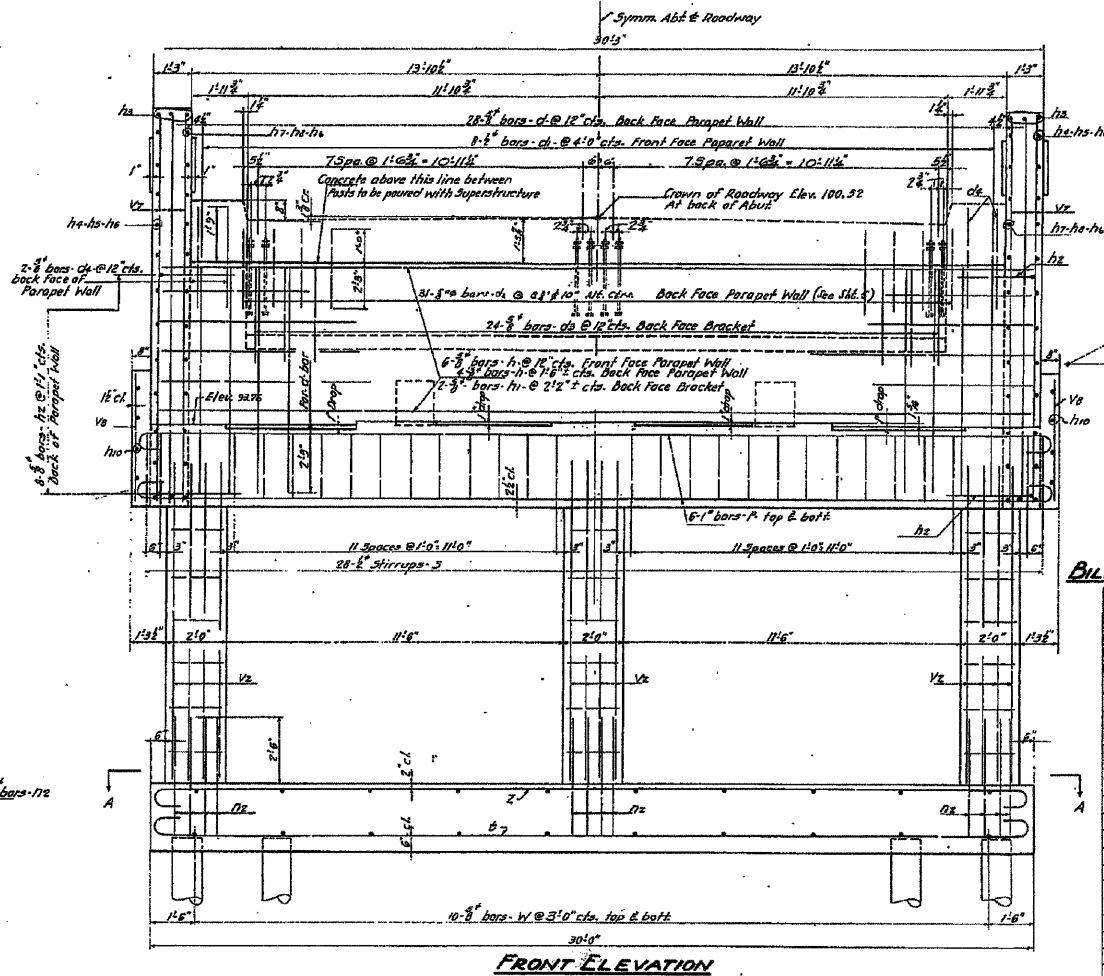
EXAMINED: *[Signature]*
BRIDGE ENGINEER

PASSED: *[Signature]*
DESIGNER

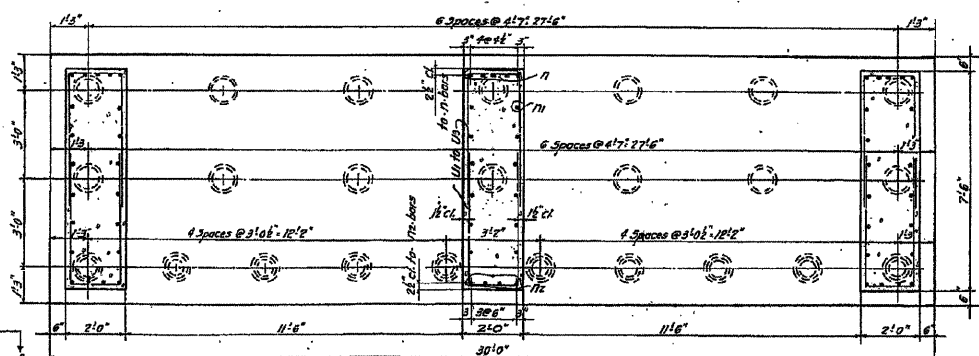
APPROVED: *[Signature]*
CHIEF HIGHWAY BUSINESS



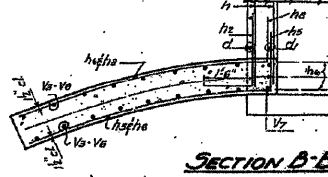
OUTSIDE ELEVATION OF RAIL POSTS



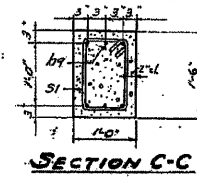
FRONT ELEVATION



SECTION A-A SHOWING POST REINFORCING & FOOTING



SECTION B-B



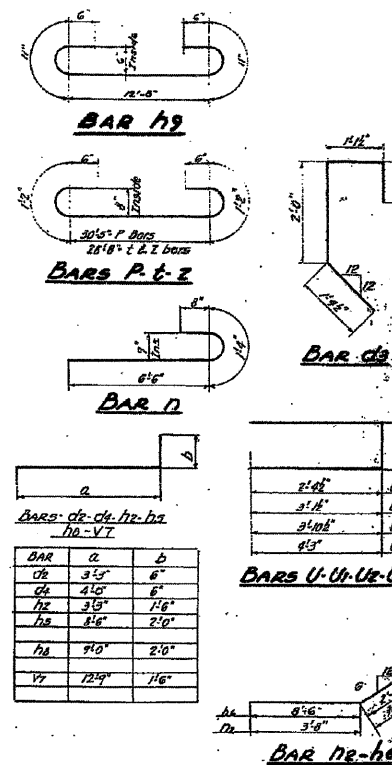
SECTION C-C

BAR-S-SI

BILL OF MATERIAL EAST ABUTMENT

BAR	NO.	SIZE	LENGTH	SHAPE
C1	28	3"	7'-6"	
C2	8	2"	5'-3"	
C3	34	3"	3'-9"	
C4	24	3"	3'-9"	
C5	4	3"	4'-6"	
H1	10	3"	23'-3"	
H2	2	3"	23'-6"	
H3	16	3"	6'-9"	
H4	6	3"	10'-0"	
H5	8	3"	8'-6"	
H6	10	3"	10'-8"	
H7	14	3"	11'-0"	
H8	8	3"	9'-0"	
H9	12	2"	15'-6"	
H10	8	2"	2'-6"	
N1	15	18"	8'-6"	
N2	36	3"	4'-0"	
N3	12	3"	2'-6"	
P1	12	1"	33'-9"	
P2	28	2"	11'-0"	
P3	9	1"	33'-0"	
S1	16	2"	4'-9"	
U1	6	2"	6'-6"	
U2	12	2"	8'-0"	
U3	12	2"	9'-6"	
U4	6	2"	10'-0"	
V1	15	1"	10'-9"	
V2	30	3"	11'-0"	
V3	12	3"	11'-6"	
V4	8	2"	8'-3"	
V5	8	2"	9'-9"	
V6	8	2"	11'-3"	
V7	6	3"	16'-3"	
V8	6	3"	4'-0"	
W	20	3"	8'-0"	
Z	9	1"	33'-0"	
CLASS-2 Concrete				Cu Yds. 59.3
Handrail Concrete				Cu Yds. 2.7
Reinforcement Bars				Lbs. 7910
Untreated Piling (Est. 10th 25')				Lin. Ft. 800
Timber Post Piles-Untreated/ Each				1
Treated Piling (Est. 10th 35')				Lin. Ft. 70

ALFRED BENESCH & ASSOCIATES
CONSULTING ENGINEERS
30 EAST ADAMS ST. CHICAGO 3, ILL.



EAST ABUTMENT
KISHWAUKEE RIVER BRIDGE
PROJECT 5-64(3)
FA.5 RTE. 80 S.A. RTE. 3
SECTION 75-B
WINNEBAGO COUNTY
STATION 86157

EXISTING DRAWING
STRUCTURE NUMBER 101-3100

FOR REFERENCE ONLY

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

© Copyright Hanson Professional Services Inc. 2010



Hanson Professional Services Inc.

JOB NO.

03R1807

DATE

10/26/10

SHEET NO. 43

47 SHEETS

F.A.U. RTE.

5103

SECTION

03-00337-00-BR

COUNTY

Winnebago

TOTAL SHEETS

66

SHEET NO.

58

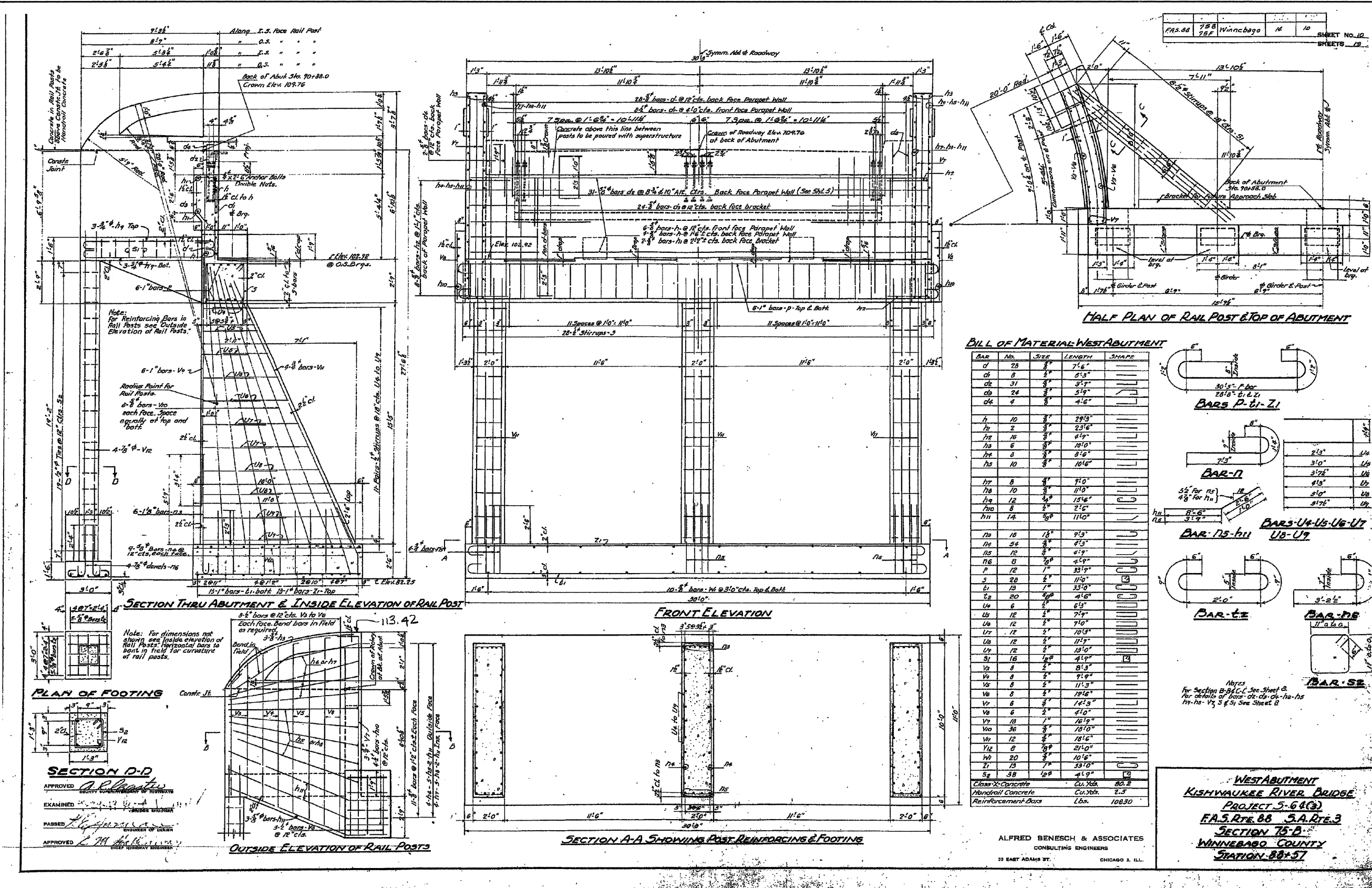
CONTRACT NO. 85523

ILLINOIS FED. AID PROJECT

LAYOUT: 10/25/2010
DRAWN: 10/25/2010
REVIEWED: 10/26/2010

10/25/2010
10/25/2010
10/25/2010

10/25/2010
10/25/2010
10/25/2010



FOR REFERENCE ONLY

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

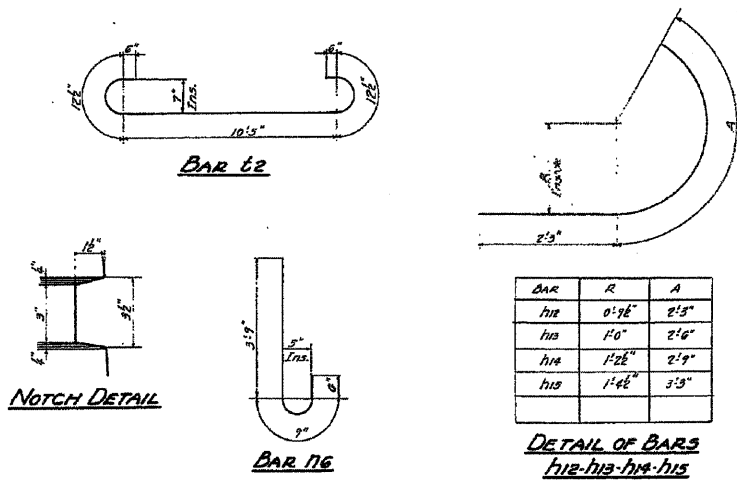
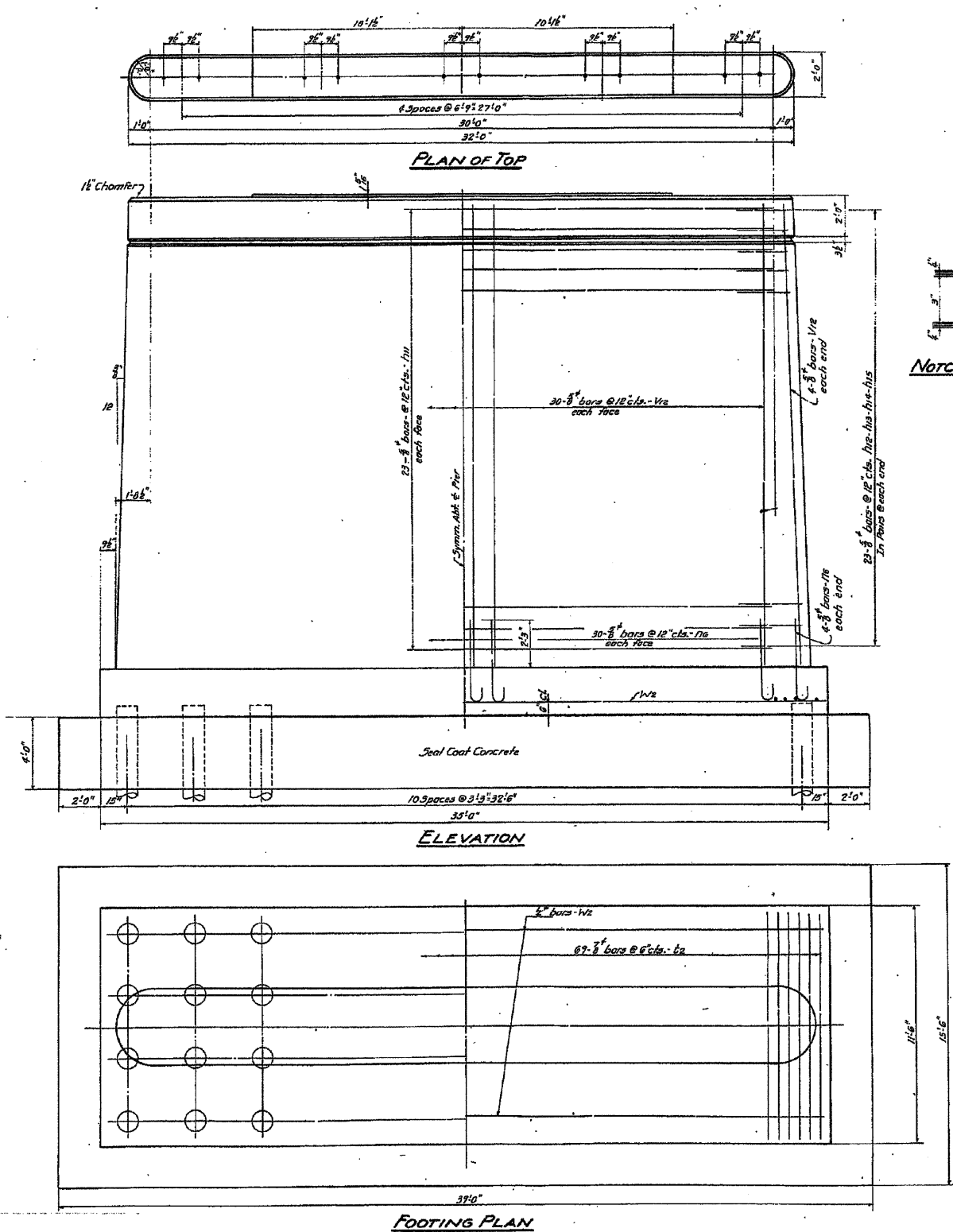
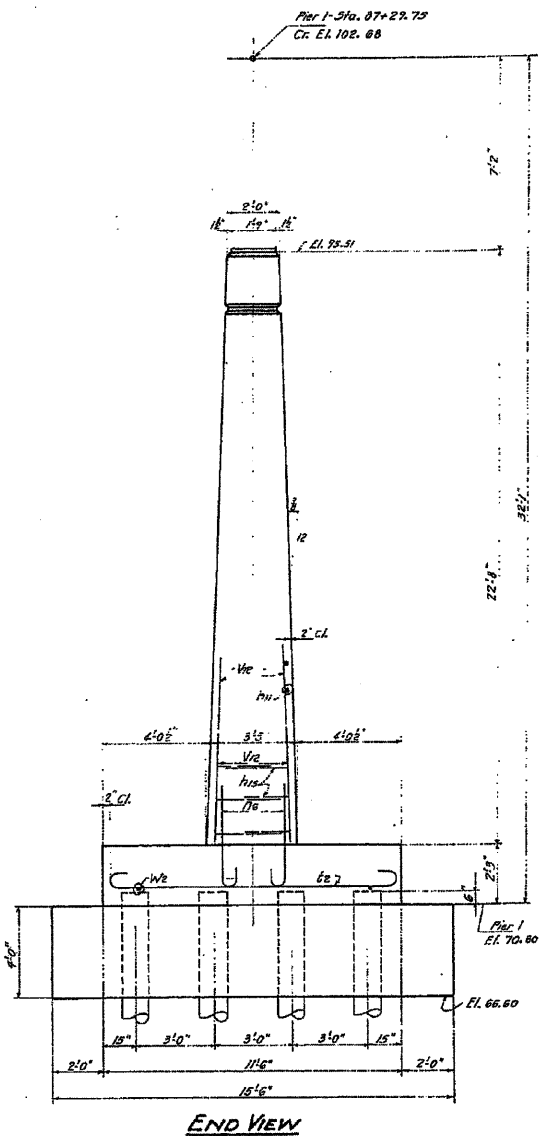
© Copyright Hanson Professional Services Inc. 2010



JOB NO.
03R1807
DATE
10/26/10

EXISTING DRAWING
STRUCTURE NUMBER 101-3100

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	59
CONTRACT NO. 85523			ILLINOIS FED. AID PROJECT	



BILL OF MATERIAL - PIER 1

BAR	No.	SIZE	LENGTH	BAR	No.	SIZE	LENGTH
V2	68	3"	22'-6"	h11	46	3"	30'-0"
h6	58	3"	5'-0"	h12	24	3"	4'-6"
h10	24	3"	4'-6"	h13	24	3"	4'-6"
h14	20	3"	5'-0"	h15	20	3"	5'-0"
h16	20	3"	5'-0"				
Class-A Concrete			Cu.Yds.	108.1			
Reinforcement Bars			Lbs.	5800			
Seal Coat Concrete			Cu.Yds.	84.5			
Cofferdam for Pier 1			Each	1			
Cofferdam Excavation			Cu.Yds.	370			
Untreated Piles (Est. Lgth. 25 Ft.)			Lin. Ft.	1100			
Timber Test Piles - Untreated			Each	1			

PIER 1
KISHWAUKEE RIVER BRIDGE
PROJECT 5-64(3)
F.A.S. RTE. 88 S.A. RTE. 3
SECTION 75-B
WINNEBAGO COUNTY
STATION 88+57

ALFRED BENESCH & ASSOCIATES
CONSULTING ENGINEERS
38 EAST ADAMS ST. CHICAGO 3, ILL.

EXISTING DRAWING
STRUCTURE NUMBER 101-3100

FOR REFERENCE ONLY

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

© Copyright Hanson Professional Services Inc. 2010



JOB NO.
03R1807

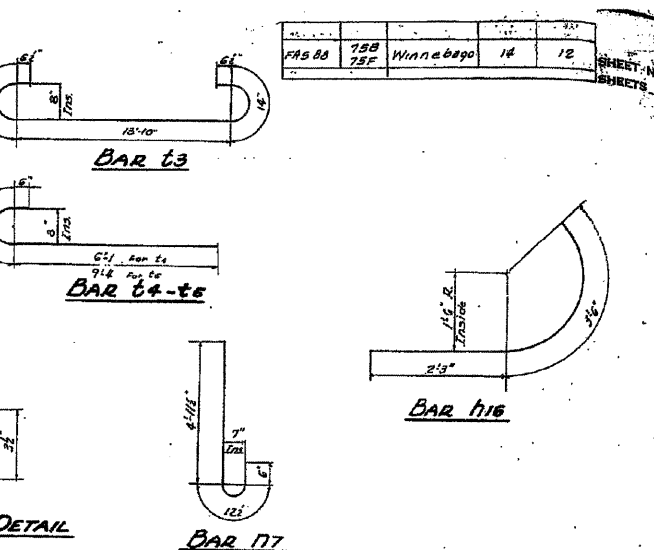
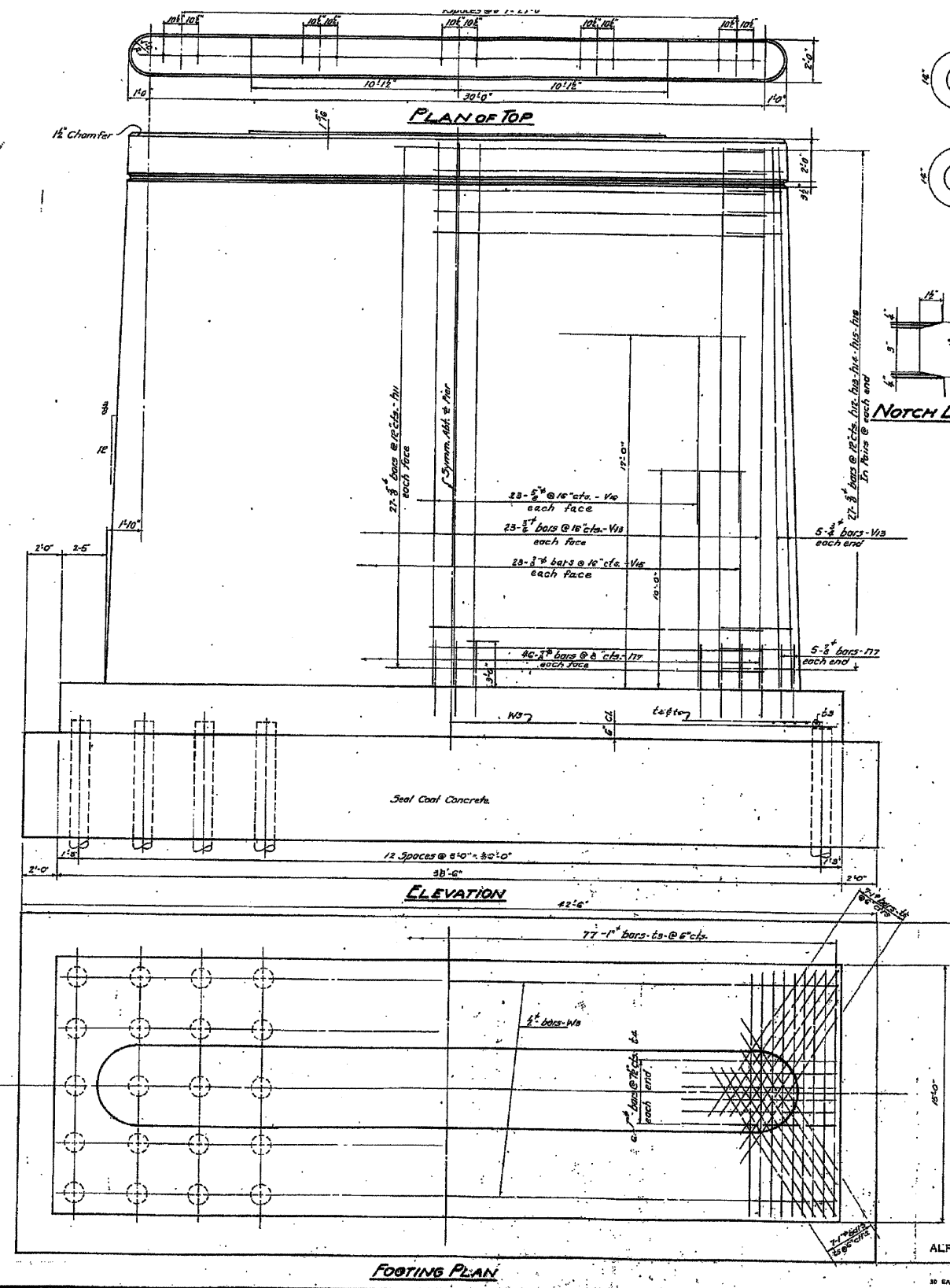
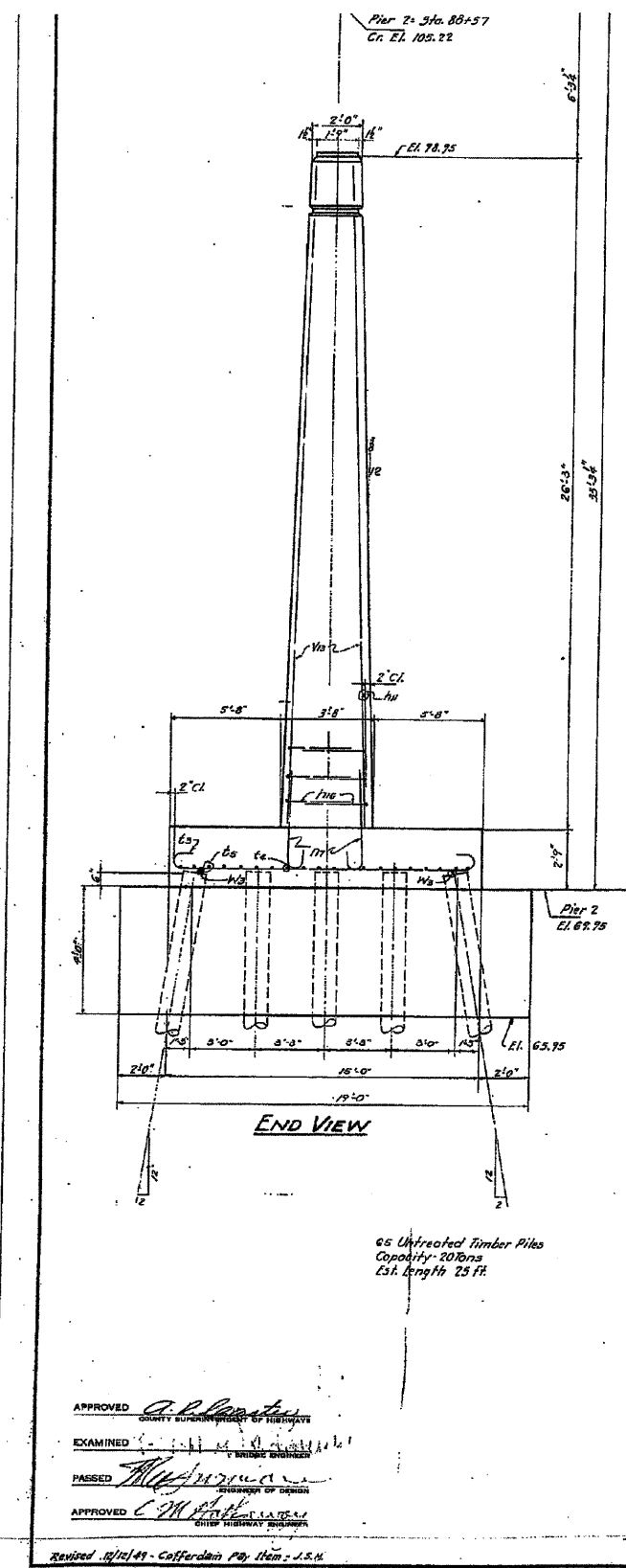
DATE
10/26/10

SHEET NO. 45

47 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	60
CONTRACT NO. 85523			ILLINOIS FED. AID PROJECT	

10/25/2010
LAYOUT JRP/SWK 08/23/10
DRAWN MCM 10/25/10
REVIEWED JRP/SWK 10/26/10



BILL OF MATERIAL-PIER 2

BAR	NO.	SIZE	LENGTH	BAR	NO.	SIZE	LENGTH
V8	60	5/8"	26'-0"	H8	24	5/8"	30'-0"
V15	40	5/8"	10'-0"	H15	24	5/8"	30'-0"
V16	40	5/8"	9'-0"	H16	24	5/8"	30'-0"
L8	77	1"	16'-9"	H18	20	5/8"	30'-0"
t4	12	1"	7'-9"	H19	20	5/8"	30'-0"
t5	20	1"	11'-0"	H20	20	5/8"	30'-0"
H8	4	2"	22'-0"	H21	20	5/8"	30'-0"
H7	102	5/8"	6'-6"				

Class A Concrete Cu. Yds. 140.5
Reinforcement Bars Lbs. 11,380
Seal Coat Concrete Cu. Yds. 112.2
Cofferdam for Pier 2 Each 1
Cofferdam Excavation Cu. Yds. 21.5
Untreated Piles (Est. Lgth. 25 ft) Lin. Ft. 1600
Timber Test Piles - Untreated Each 2

Note: for details of bars - see to fits - see Sheet 19

PIER 2
KISHWAUKEE RIVER BRIDGE
PROJECT 5-64(3)
F.A.S. RTE. 88 S.A. RTE. 3
SECTION 75-B
WINNEBAGO COUNTY
STATION 80+57

ALFRED BENESCH & ASSOCIATES
CONSULTING ENGINEERS
30 EAST ADAMS ST.
CHICAGO 3, ILL.

FOR REFERENCE ONLY

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

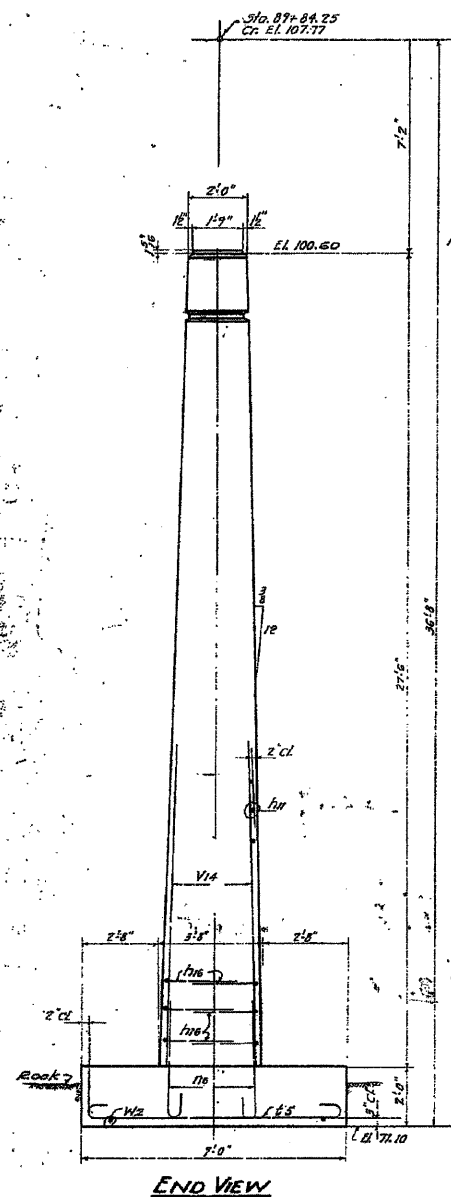


© Copyright Hanson Professional Services Inc. 2010
JOB NO. 03R1807
DATE 10/26/10
SHEET NO. 46
47 SHEETS

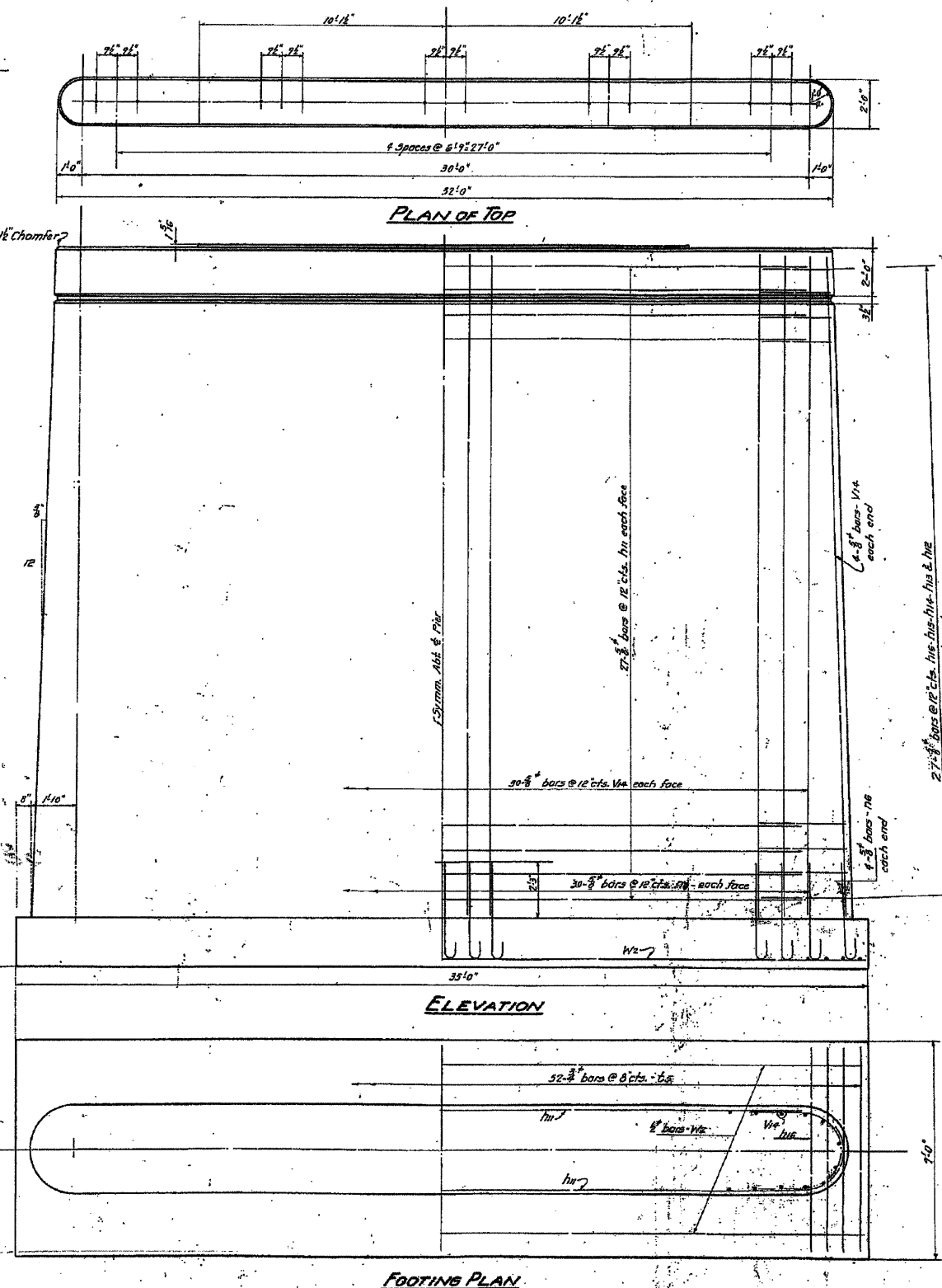
EXISTING DRAWING
STRUCTURE NUMBER 101-3100

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	61
CONTRACT NO. 85523			ILLINOIS FED. AID PROJECT	

DATE	7/26/10	BY	Winnipeg	12	15
REVISION	10/26/10	BY	Winnipeg	12	15



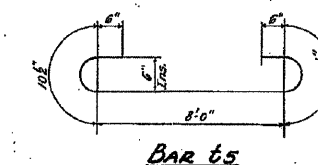
END VIEW



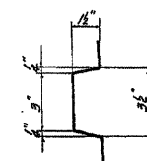
PLAN OF TOP

ELEVATION

FOOTING PLAN



BAR 65



NOTCH DETAIL

BILL OF MATERIAL

BAR	No.	Qty.	Unit	Notes
W#	65			
W#	65			
W#	65			
W#	65			
W#	65			

Class-A Concrete
Reinforcement Bars
Cofferdam for Retention
Cofferdam Excavation
Rock Excavation for Foundation
For details of bars, see sheet 101-3100-1
For details of bars, see sheet 101-3100-2

APPROVED: *[Signature]*
COUNTY ENGINEER OF HIGHWAYS
EXAMINED: *[Signature]*
PROJECT ENGINEER
DESIGNED: *[Signature]*
CIVIL ENGINEER
DATE: 10/26/10

ALFRED BENESCH & ASSOCIATES
CONSULTING ENGINEERS
30 EAST ADAMS ST.
CHICAGO 4, ILL.

PIER 3
KISHKAWAKE RIVER BRIDGE
PROJECT 5-64(3)
FA 5-RTE 88 - S.A. RTE 3
SECTION 10-D
WINNEBAGO COUNTY
STATION 88+57

EXISTING DRAWING
STRUCTURE NUMBER 101-3100

FOR REFERENCE ONLY

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

© Copyright Hanson Professional Services Inc. 2010



Hanson Professional Services Inc.

JOB NO.

03R1807

DATE

10/26/10

SHEET NO. 47

47 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5103	03-00337-00-BR	Winnebago	66	62
			CONTRACT NO.	85523
			ILLINOIS	FED. AID PROJECT

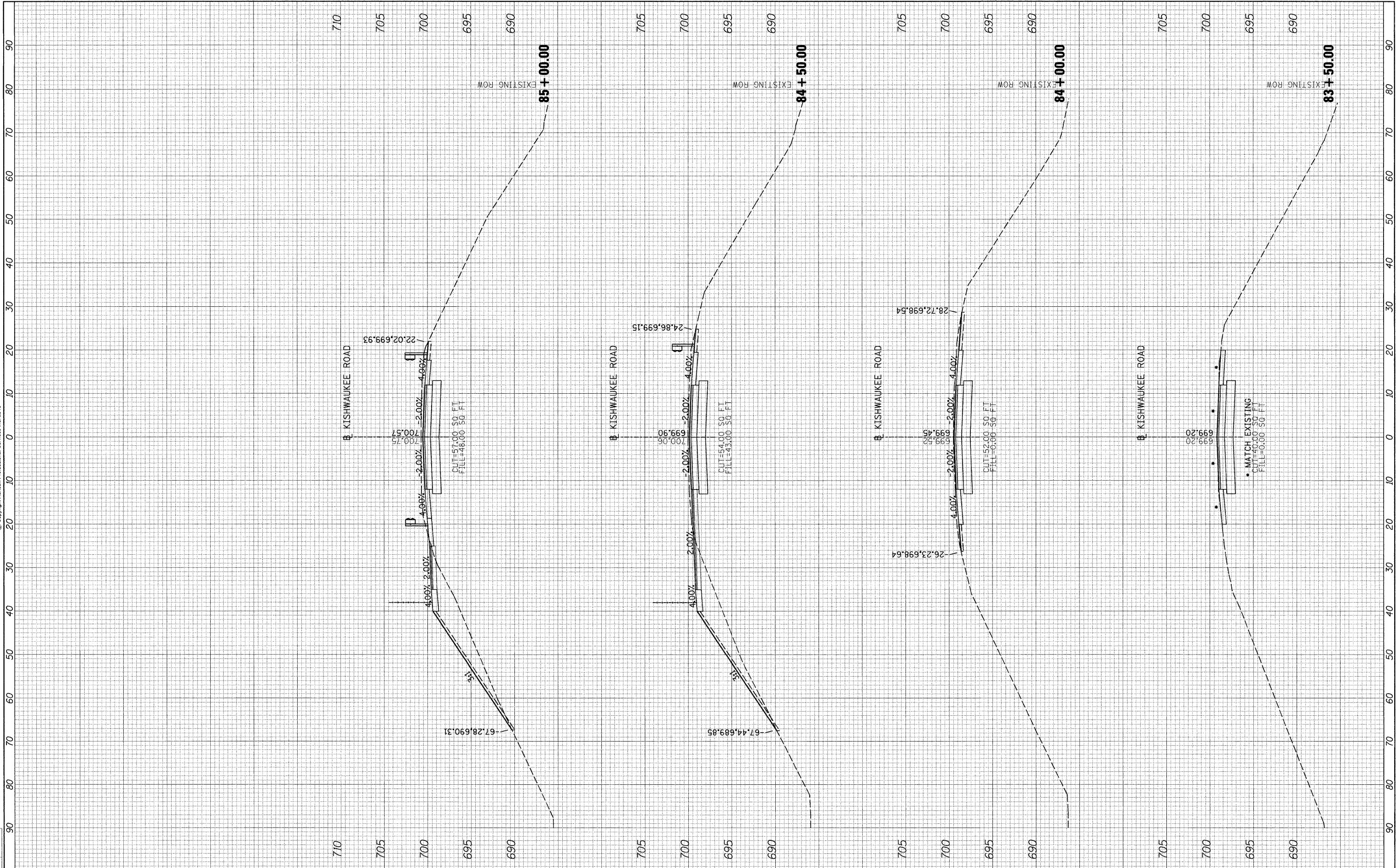
FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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

LAYOUT	
DRAWN	
REVIEWED	



© Copyright Hanson Professional Services Inc. 2010



FILE NAME = I:\03\Jobs\03R1807\CADD\Road\Sheet\C-301-XS.dgn		USER NAME = Pop00275		DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		CROSS SECTIONS KISHWAUKEE RIVER BRIDGE WINNEBAGO COUNTY, ILLINOIS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 10.0000' / 1" =		PLOT DATE = 10\27\2010		DRAWN -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. 83+50.00 TO STA. 85+00.00		5103	03-00337-00-BR	WINNEBAGO	66	63
				CHECKED -	REVISED -					CONTRACT NO. 85523				
				DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

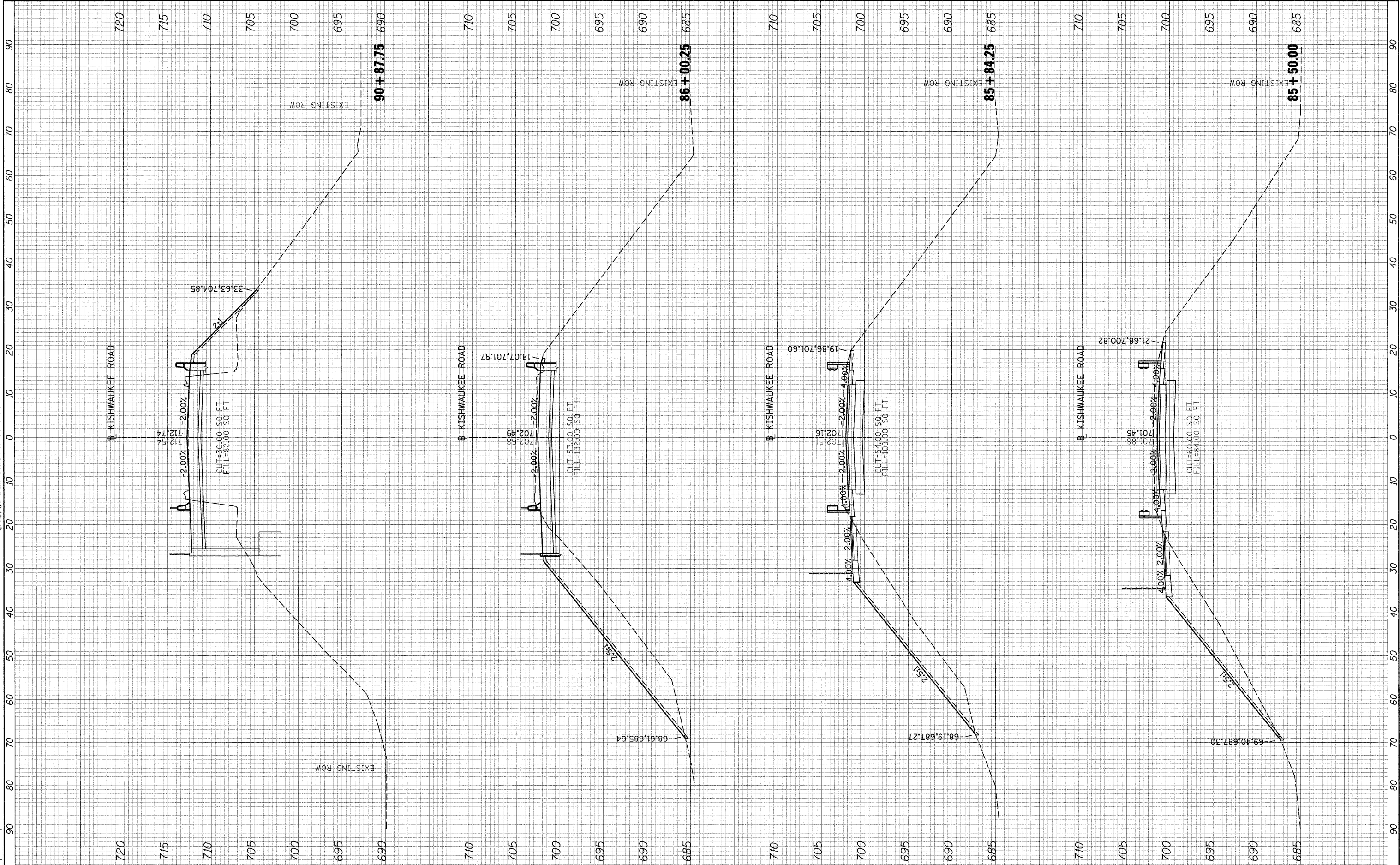
FINAL SURVEY	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

LAYOUT	
DRAWN	
REVIEWED	



© Copyright Hanson Professional Services Inc. 2010



FILE NAME =	USER NAME = Pop00275	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				CROSS SECTIONS KISHWAUKEE RIVER BRIDGE WINNEBAGO COUNTY, ILLINOIS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I:\03\jobs\03R1807\CADD\Road\Sheet\1C-301-XS.dgn		DRAWN -	REVISED -									5103	03-00337-00-BR	WINNEBAGO	66	64
PLOT SCALE = 10.0000' / 1" =		CHECKED -	REVISED -									CONTRACT NO. 85523				
PLOT DATE = 10\27\2010		DATE -	REVISED -									FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

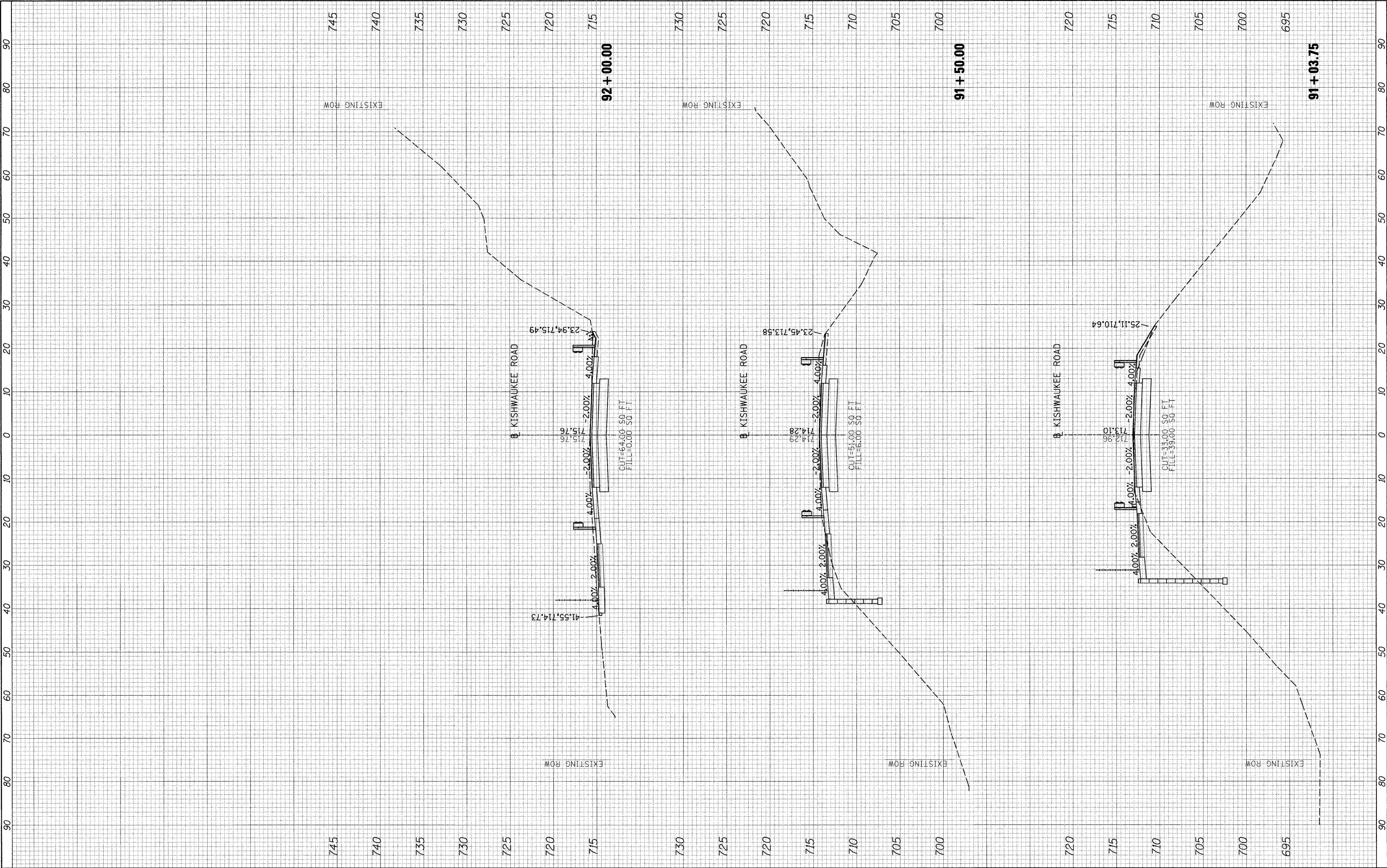
FINAL SURVEY	NO.	BY	DATE	SURVEYED	PLOTTED	TEMPLATE	AREAS	CHECKED
				NOTE BOOK				

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

LAYOUT	
DRAWN	
REVIEWED	



© Copyright Hanson Professional Services Inc. 2010



FILE NAME =	USER NAME = Pop00275	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS KISHWAUKEE RIVER BRIDGE WINNEBAGO COUNTY, ILLINOIS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
t:\03\jobs\03R1807\CADD\Road\Sheet\XC-301-XS.dgn		DRAWN -	REVISED -					5103	03-00337-00-BR	WINNEBAGO	66	65
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -	CONTRACT NO. 85523									
PLOT DATE = 10\27\2010	DATE -	REVISED -										
SCALE:	SHEET NO.	OF	SHEETS	STA. 91+03.75	TO STA. 92+00.00							
				FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT						

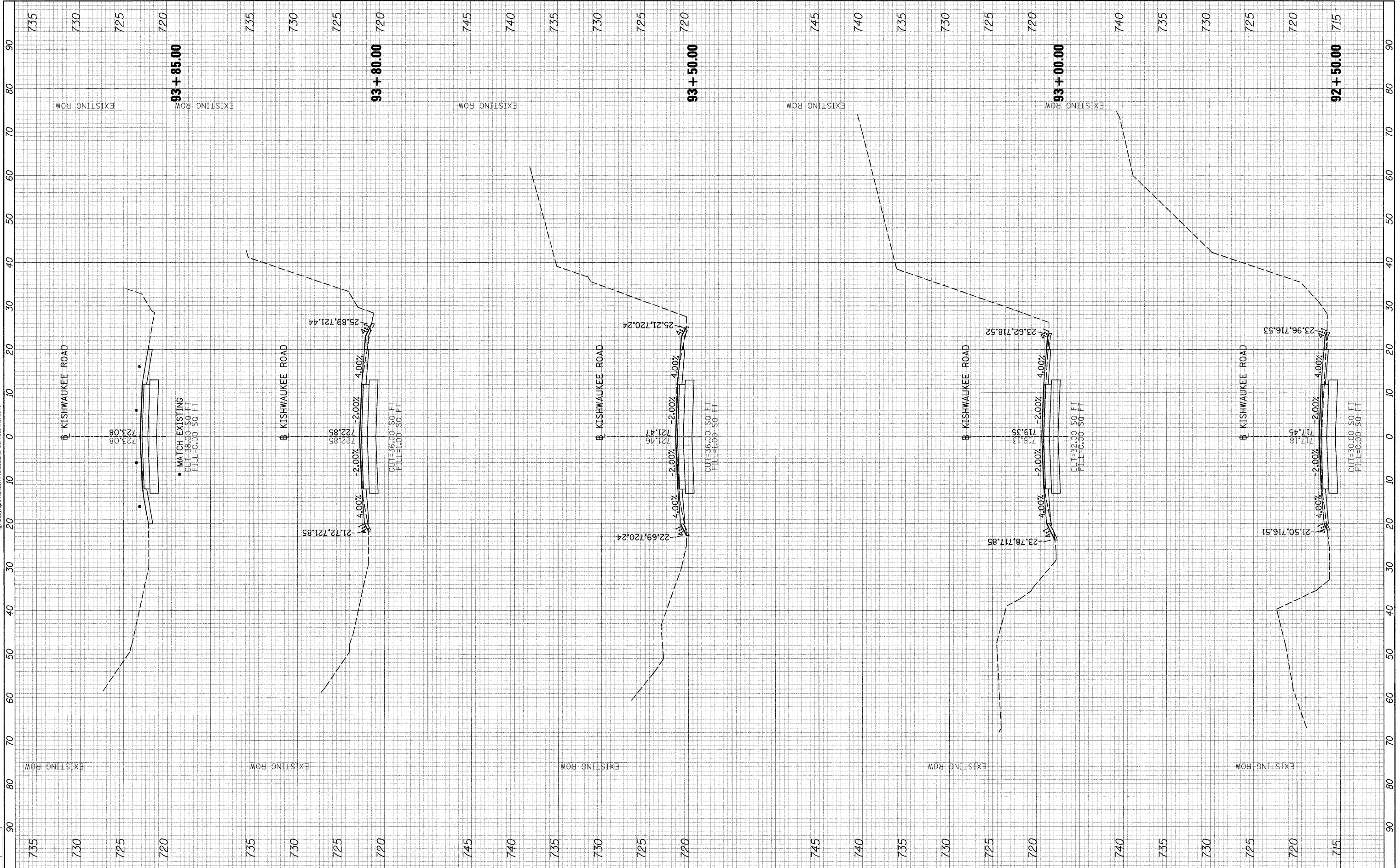
NO.	AREAS CHECKED	NOTE BOOK	FINL SURVEY	BY	DATE
			SURVEYED		
			PLOTTED		
			TEMPLATE		



© Copyright Hanson Professional Services Inc. 2010

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

LAYOUT	DRAWN	REVIEWED



FILE NAME =	USER NAME = Pop00275	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS KISHWAUKEE RIVER BRIDGE WINNEBAGO COUNTY, ILLINOIS					F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I:\23\jobs\03R1807\CADD\Road\Sheet\C-301-XS.dgn		DRAWN -	REVISED -		5103	03-00337-00-BR	WINNEBAGO	66	66					
PLOT SCALE = 10.0000' / 1in		CHECKED -	REVISED -		CONTRACT NO. 85523									
PLOT DATE = 10\27\2010		DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. 92+50.00 TO STA. 93+85.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT				