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09-19-2025 LETTING ITEM 075

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FOR HIGHWAY STANDARDS,
UTILITIES, PROJECT HORIZONTAL AND
VERTICAL CONTROL - SEE SHEET NO. 2

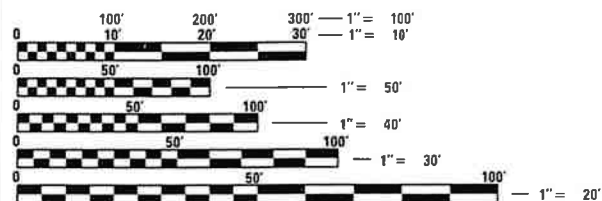
FUNCTIONAL CLASSIFICATION

MINOR ARTERIAL (URBAN)

DESIGN SPEED: 50 MPH

2024 ADT = 4550

P.V.=97.4% S.U.=1.9% M.U.=0.7%



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

J.U.I.E. A233600825 & A233600830
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER - ATK
PROJECT MANAGER - MRL

CONTRACT NO. 85764

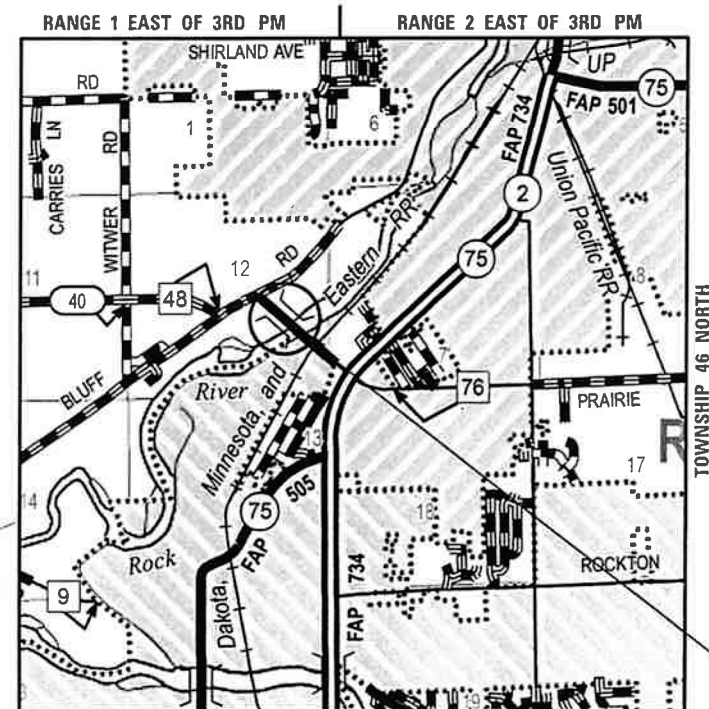
ATTENTION CONTRACTORS

THE ILLINOIS DEPARTMENT OF TRANSPORTATION
BUREAU OF MATERIALS AND PHYSICAL RESEARCH,
"PROJECT PROCEDURES GUIDE" IS APPLICABLE TO
THIS PROJECTS



DATE: 7/23/2025
EXPIRES 11/30/2025

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
FEDERAL AID PROJECT
SURFACE TRANSPORTATION
BRIDGE (FY-24)**
SECTION NO: 18-00655-00-BR
FAU 9876 (PRAIRIE HILL ROAD) OVER ROCK RIVER
PROJECT NO: 9UAJ(753)
BRIDGE REPLACEMENT
WINNEBAGO COUNTY
C-92-032-20



GROSS LENGTH = 1572 FT = 0.30 MILE
NET LENGTH = 1572 FT = 0.30 MILE



PROPOSED STRUCTURE: S.N. 101-0220
A THREE SPAN (130'-10 1/2", 167'-9", 130'-10 1/2")
STEEL PLATE GIRDER BRIDGE WITH 34'-10" OUT
TO OUT CIP DECK ON SPILL THRU ABUTMENTS
AND SOLID WALL PIER ON PILE SUPPORTED
FOOTINGS AT STA. 20+00. 22 DEGREE SKEW
LT. AHD.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	1
WHA# 1570023		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				



LOCATION OF SECTION INDICATED THUS: -

WINNEBAGO COUNTY HIGHWAY DEPARTMENT

APPROVED 7/24/2025
WINNEBAGO COUNTY ENGINEER

PASSED July 24, 2025
DISTRICT 2 LOCAL ROADS & STREETS ENGINEER

RELEASING FOR BID
BASED ON LIMITED
REVIEW July 24, 2025
DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER



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PROJECT CONTROL

VERTICAL CONTROL				
BENCHMARK	STATION	ELEVATION	DESCRIPTION	CULVERT LOCATION
WHA 400	38.10' RT 10+19.07	787.99	RR SPIKE IN PP S/E CORNER OF CULVERT	WEST
WHA 401	38.44' RT 7+21.47	787.91	RR SPIKE IN 1ST PP WEST OF CULVERT	WEST
WHA 402	31.42' LT 20+55.91	716.04	RR SPIKE IN 1ST PP EAST OF CULVERT	EAST
WHA 403	37.52' RT 18+69.49	718.59	RR SPIKE IN 1ST PP WEST OF CULVERT	EAST

HORIZONTAL CONTROL						
POINT #	STATION	NORTHING	EASTING	ELEVATION	DESCRIPTION	CULVERT LOCATION
WHA 31	24.94' RT 21+26.06	2089529.31	2599632.37	718.74	¾" IP	EAST
WHA 32	25.46' LT 19+19.08	2089572.65	2599423.80	716.05	¾" IP	EAST
WHA 34	18.00' LT 13+41.23	2089160.04	2586595.90	797.30	IP W/CAP (FGA)	WEST
WHA 35	14.74' RT 8+60.95	2089117.53	2586116.39	789.24	IP W/CAP (FGA)	WEST
WHA 150	16.35' LT 6+58.00	2089144.49	2585912.85	788.76	IPS W/CAP (WHA)	WEST
WHA 151	46.67' RT 19+15.35	2089500.43	2599422.52	716.71	IPS W/CAP	EAST

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
515001-04	NAME PLATE FOR BRIDGE
542306-03	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
630001-13	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
630111-01	WEAK POST GUARDRAIL ATTACHED TO CULVERT
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-02	DELINEATORS
701201-05	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
701901-10	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGN MARKERS & DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS AND MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION OF RURAL LOCAL HIGHWAYS
BLR 22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

GENERAL NOTES

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION IN ORDER TO ARRANGE FOR APPROPRIATE CONSTRUCTION INSPECTION. WORK PERFORMED OR MATERIALS AND EQUIPMENT INSTALLED WITHOUT INSPECTION MAY BE CONSIDERED UNACCEPTABLE AT THE DISCRETION OF THE ENGINEER AND WILL HAVE TO BE REPLACED AT NO COST TO THE ENGINEER OR OWNER.

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ALL EQUIPMENT, MATERIAL AND CONSTRUCTION METHODS ADHERE TO THE REQUIREMENTS AND STIPULATIONS OF THE MOST CURRENT ADDITION OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL CONSTRUCTION MATERIALS WITHIN THE RIGHT-OF-WAY MUST BE IDOT CERTIFIED. DOCUMENTATION OF MATERIAL CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO INSTALLATION FOR APPROVAL. ALL CONSTRUCTION MATERIAL NEEDING INSPECTION SHALL BE DONE ACCORDING TO THE LATEST IDOT PROJECT AND PROCEDURES GUIDE.

THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKERS AND SECTION OR SUBSECTION MONUMENTS ENCOUNTERED UNTIL AN OWNER, AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. ANY PROPERTY MARKERS AND SECTION OR SUBSECTION MONUMENTS, UNLESS REFERENCED, DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

EXISTING MAIL BOXES, STREET SIGNS AND TRAFFIC SIGNS THAT ARE WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, PROTECTED AND RESET BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION. THE COST OF REMOVING AND RESETTNG IS TO BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION (SPECIAL). THE CONTRACTOR SHALL VERIFY THE LOCATIONS WITH THE ENGINEER PRIOR TO RESETTNG.

GENERAL NOTES (CONT.)

ALL TREES LESS THAN 6" DIAMETER WITHIN THE CONSTRUCTION LIMITS AND SHOWN ON THE PLANS TO BE REMOVED WILL NOT BE PAID FOR UNDER THE PAY ITEMS FOR "TREE REMOVAL". THE COST OF REMOVING THESE TREES SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE PER CUBIC YARD FOR EARTH EXCAVATION (SPECIAL).

SPECIAL CARE SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING TREES. NO ROOTS SHALL REMAIN EXPOSED FOR LONGER THAN 24 HOURS. ALL TREE PROTECTION MEASURES SHALL BE IN ACCORDANCE WITH ARTICLE 201.05 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE PER CUBIC YARD OF EARTH EXCAVATION (SPECIAL).

EXISTING STRUCTURES (INCLUDING FOUNDATIONS, WALLS, CISTERNS, TANKS, WELLS OR OTHER UNDERGROUND STRUCTURES) WITHIN THE RIGHT OF WAY SHALL BE REMOVED IN ACCORDANCE WITH ARTICLE 501.04 OF THE STANDARD SPECIFICATIONS, WITHOUT ANY ADDITIONAL COMPENSATION, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIAL PROVISIONS.

WHERE THE PROPOSED CONSTRUCTION MEETS AN EXISTING BITUMINOUS OR CONCRETE SURFACE, OR WHERE SAW CUTTING IS STATED ON THE PLANS, THE EXISTING SURFACE SHALL BE SAWED IN A NEAT STRAIGHT LINE FOR THE FULL DEPTH OF THE PAVEMENT. THE COST OF SAW CUTTING IS TO BE INCLUDED WITH THE UNIT BID PRICES FOR REMOVAL ITEMS WITHIN THE CONTRACT. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR SAW CUTTING.

ALL BORROW / WASTE / USE SITES MUST BE APPROVED BY THE DEPARTMENT / OWNER PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTH MOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT OF WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL PROPERTIES MUST MATCH THAT OF THE PROPERTIES OF LOCAL SOILS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE PER SQUARE YARD FOR TOPSOIL FURNISH AND PLACE 4". NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

FERTILIZER NUTRIENTS SHALL BE APPLIED AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. ALL FERTILIZER COSTS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE PER ACRE FOR SEEDING, CLASS 2A (SPECIAL). NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

SEE CROSS SECTION SHEETS WITHIN THIS PLAN SET FOR DETAILS ON SPECIAL DITCHES AND DESIRED FORE SLOPES, DITCH DEPTHS, AND BACK SLOPES.

PAVEMENT MARKINGS SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:

- ALL WORDS, SUCH AS "ONLY" SHALL BE 8 FEET HIGH.
- ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
- THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8 INCHES. NOT 7 INCHES, AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.
- CENTERLINE SKIP DASH PAVEMENT MARKING ON MULTI -LANE DIVIDED, MULTI-LANE UNDIVIDED, AND ONE-WAY ROADWAYS SHALL BE ACCORDING TO DISTRICT STANDARD 41.1.

ALL PAVEMENT SHALL BE CLEANED AND FREE OF DEBRIS PRIOR TO ANY PAVEMENT MARKING OPERATIONS.

THE AREA TO BE PRIMED SHALL BE LIMITED TO THAT WHICH CAN BE COVERED WITH HMA ON THE NEXT DAYS PRODUCTIVITY, BUT NO MORE THAN FIVE (5) DAYS IN ADVANCE OF THE PLACEMENT OF HMA, UNLESS APPROVED BY THE ENGINEER.

ALL DUST ON-SITE SHALL BE CONTROLLED BY THE USE OF WATER BASED PRODUCTS ONLY. NO OILS OR PETROLEUM BASED AGENTS SHALL BE PERMITTED FOR DUST CONTROL.

DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING OR ANY OTHER METHOD ACCEPTABLE TO THE ENGINEER. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUIRED DUE TO DELAYS OR UNSTABLE MATERIALS CREATED AS A RESULT THEREOF.

AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL SWEEP OR CLEAN (NOT FLUSH) ANY CONSTRUCTION MATERIAL FROM THE STREET TO PREVENT TRACKING. THE ENGINEER SHALL HAVE AUTHORIZATION TO DETERMINE THE ADEQUACY OF THE CONTRACTOR'S EROSION CONTROL EFFORTS. THE DEPARTMENT / OWNER SHALL HAVE AUTHORITY TO SUSPEND OR LIMIT THE CONTRACTOR'S OPERATIONS PENDING ADEQUATE PERFORMANCE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES THROUGHOUT THE COURSE OF THE PROJECT. THE COST FOR ALL MAINTAINED AND ADJUSTMENTS TO THE EROSION CONTROL MEASURES SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR EACH EROSION CONTROL DEVICE.

ANYTIME DURING CONSTRUCTION OPERATIONS, IF ANY DEBRIS IS DEPOSITED INTO THE FLOW LINE OF ANY DRAINAGE STRUCTURE, DITCHES, ETC., SUCH THAT THE NATURAL FLOW LINE HAS BEEN OBSTRUCTED, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REMOVE THIS DEBRIS PRIOR TO THE CLOSE OF EACH WORKING DAY, AND ENSURE POSITIVE DRAINAGE THROUGH ALL STRUCTURES, STORM SEWERS, DITCHES, ETC. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS FOR THIS PROJECT, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.

THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL FIELD TILES, UNDERGROUND AND SURFACE UTILITIES AS OUTLINED IN SECTION 107 OF THE STANDARD SPECIFICATIONS. ANY FIELD TILE OR UTILITY DAMAGED DURING CONSTRUCTION REGARDLESS IF THEY ARE SHOW ON THE PLANS SHALL BE REPAIRED IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT. NO ADDITIONAL COMPENSATION WILL BE PROVIDED. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR IS REQUIRED TO PROTECT THE VARIOUS UTILITIES DURING CONSTRUCTION. ANY DAMAGE THAT OCCURS TO THE VARIOUS UTILITIES DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE. AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS.

IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT JULIE AND COORDINATE THE UTILITY LOCATE (JULIE'S NUMBER IS 800 - 892 - 0123). A MINIMUM OF 48 HOURS ADVANCED NOTICE IS REQUIRED FOR NON-EMERGEMCY WORK. THE FOLLOWING LISTED UTILITIES ARE LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS, AND ARE MEMBERS OF JULIE:

GENERAL NOTES (CONT.)

Company	Name	Email	Phone	Type
AT&T Distribution	Matthew Vachalik	mv5616@att.com	262-707-6216	Comm.
Charter/Spectrum Communications	Thomas Phillips	Thomas.Phillips@charter.com	608-209-4821	Comm.
Rock Energy Coop	Chris Tullar	chris@rock.coop	608-314-4623	Natural Gas
	Jason Mayer	jasonm@rock.coop	608-314-4463	
Vanguard Utility Partners		operations@vanguardup.com		
Village of Rockton	Adam Bunge	adam.bunge@civilideas.com	815-501-0829	Water
Windstream KDL/Mcleod USA	Andres Bravo	Andres.Bravo@Windstream.com locate.desk@windstream.com	224-201-0230	Fiber

IF THERE ARE ANY UTILITIES WHICH ARE NOT MEMBERS OF JULIE THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THIS AND REQUESTING SAID UTILITIES TO FIELD VERITY AND MARK PERTINENT UTILITY LOCATIONS.

THE APPLICABLE PORTIONS OF ARTICLE 105.07 OF THE STANDARD SPECIFICATIONS SHALL APPLY EXCEPT FOR THE FOLLOWING: THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE THE VERTICAL DEPTHS OF THE UNDERGROUND UTILITIES WHICH MAY INTERFERE WITH CONSTRUCTION OPERATIONS. THIS WORK WILL NOT BE MEASURED OR PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES FOR THE ITEM OF CONSTRUCTION INVOLVED.

COMMITTMENTS

TREES THREE (3) INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1ST THROUGH SEPTEMBER 30TH OF ANY GIVEN YEAR.

SHOULD THE PROJECT REQUIRE NEW/ADDITIONAL TEMPORARY OR PERMANENT LIGHTING, OR REPLACING EXISTING PERMANENT LIGHTS, ALL LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH IDOT BDE MANUAL - CHAPTER 56 AND WITH THE USFWS PBO FOR IBAT, NLEB, AND TCB. THIS INCLUDES THE FOLLOWING: DIRECT TEMPORARY LIGHTING AWAY FROM SUITABLE HABITAT DURING THE ACTIVE SEASON AND AND UTILIZING THE BUG SYSTEM, THE PROJECT SHOULD BE AS CLOSE TO ZERO (0) FOR ALL THREE RATINGS WITH A PRIORITY OF "UPLIGHT" OF ZERO (0) AND "BACKLIGHT" AS LOW AS PRACTICABLE.

TEMPORARY COFFERDAM INSTALLATION AND REMOVAL SHALL BE PERFORMED OUTSIDE THE GRAVEL CHUB SPAWNING SEASON (APRIL 1ST-MAY 31ST).

AFTER THE IN-STREAM WORK IS COMPLETED WITHIN THE RIVER, THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS AND RE-ESTABLISHMENT OF THE CHANNEL BOTTOM AT THE SAME ELEVATIONS.

CONSTRUCTION CREWS WILL MONITOR WEATHER FORECASTS FOR HEAVY RAIN AND FLOODING. IF FLOODING IS EXPECTED/PREDICTED, ALL EQUIPMENT WILL BE MOVED OUT OF THE FLOODPLAIN AND CONSTRUCTION WORK WILL BE SECURED TO WITHSTAND ANTICIPATED HIGHER FLOWS. THE TEMPORARY COFFERDAMS ARE EXPECTED TO WITHSTAND ANY HIGHER FLOWS DUE TO THE LIMITED HEIGHT.

THE DISTRICT HAS COMMITTED TO PLACING APPROXIMATELY 928 CUBIC YARDS OF REGULATED SUBSTANCES MATERIAL CLASSIFIED AS 669.05(A)(1) AND 669.05(B)(1) ALONG THE ROADWAY AS FILL OR EMBANKMENT WITHIN THE PROJECT LIMITS. IF PLANS FOR THIS PROJECT CHANGE AND MATERIAL CLASSIFIED AS 669.05(A)(1) AND 669.05(B)(1) IS TO BE REMOVED, THE REGULATED SUBSTANCES MATERIAL REFERENCED IN THIS SPECIAL PROVISION WILL NEED TO BE MANAGED USING ARTICLE 109.04 AS NON-SPECIAL WASTE. THE INTENT OF THE COMMITMENT IS NOT COVERED BY SECTION 202.

TEMPORARY COFFERDAMS ARE REQUIRED FOR CONSTRUCTION OF THE TWO NEW PIERS.

TEMPORARY COFFERDAMS WILL ONLY SURROUND EACH NEW PIER, ALLOWING WATER TO PASS FREELY UNDER THE BRIDGE SPANS.

THE WIDTH OF THE COFFERDAMS WILL BE AS NARROW AS POSSIBLE TO SUPPORT CONSTRUCTION EQUIPMENT (TEMPORARY COFFERDAMS ARE ANTICIPATED TO OCCUPY, 2,900 SQUARE FEET TOTAL FOR THE TWO PROPOSED PIERS TEMPORARY COFFERDAMS ASSUMING 5 FEET OF WORKSPACE AROUND ALL SIDES OF THE PIER FOOTING).

THE FOUR EXISTING PIERS WILL BE REMOVED TWO FEET BELOW THE EXISTING STREAMBED. REMOVAL OF THE PIERS MAY NOT REQUIRE COFFERDAMS;HOWEVER, IF REQUIRED THEY WOULD TEMPORARILY OCCUPY 3,300 SQUARE FEET ASSUMING 5' OF WORKSPACE ON ALL SIDES.

A TEMPORARY CAUSEWAY MAY NOT BE NEEDED TO CONSTRUCT THE COFFERDAMS; HOWEVER, IF A TEMPORARY CAUSEWAY IS NEEDED IN-STREAM WORK FOR THE COFFERDAM INSTALLATION AND REMOVAL WILL BE PERFORMED OUTSIDE THE GRAVEL CHUB SPAWNING SEASON (APRIL 1ST - MAY 31ST)

WINNEBAGO COUNTY WILL MONITOR THE BEST MANAGEMENT PRACTICES (BMPS) TO CONTROL SEDIMENT AND SOIL EROSION. THESE INSPECTIONS WILL OCCUR PRIOR TO AND AFTER ANY RIVER WORK AND/OR LARGE STORM EVENTS.

IF UNFORESEEN CONSTRUCTION SITUATIONS OCCUR, THE COUNTY WILL CONSULT WITH IDOT AND IDNR TO MAKE SURE ANY CORRECTIVE ACTIONS DO NOT ADVERSELY IMPACT THE GRAVEL CHUB. POTENTIAL ADVERSE SITUATIONS INCLUDE FLOODING, EQUIPEMENT SPILLS OR LEAKS, AND FUEL SPILLS.

CONSTRUCTION WORKERS WILL BE INFORMED OF SENSITIVE RESOURCES IN THE AREA (GRAVEL CHUB), INCLUDING THREATENED AND ENDANGERED SPECIES, REGULATIONS PROTECTING THE SPECIES, WHERE THE SPECIES MIGHT BE FOUND, EQUIPEMENT AVOIDANCE AREAS, HOW TO REPORT SIGHTINGS OR INCIDENTS THAT MAY INVOLVE TAKE, AND THE IMPORTANCE OF AVOIDING TAKE OF THE SPECIES.

REVISION	DATE	BY	REMARKS	DESIGNED	ATK
				DRAWN	XXX
				REVIEWED	ATK
				APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLETT HOFMANN
ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-2-84 3-38 DE SI CN FIRM# 84-09 09 18

GENERAL NOTES AND STANDARDS

SHEET 7 OF 1

F.A.U. RTEL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	2
	WHA" 1570D23		CONTRACT NO.	85764
[I LLINOIS] FED. AID PROJECT				

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SUMMARY OF QUANTITIES

PAY CODE	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
					BRIDGE
				0042	0010
				RURAL	RURAL
20100500	TREE REMOVAL, ACRES	ACRE	0.3		0.3
20300100	CHANNEL EXCAVATION	CU YD	74		74
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3853		3853
25100630	EROSION CONTROL BLANKET	SQ YD	3853		3853
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	16		16
28000400	PERIMETER EROSION BARRIER	FOOT	2450		2450
30300011	AGGREGATE SUBGRADE IMPROVEMENT	TON	884		884
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	204		204
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	21		21
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	80		80
44000100	PAVEMENT REMOVAL	SQ YD	261		261
44200976	CLASS B PATCHES, TYPE IV, 10 INCH	SQ YD	182		182
44201299	DOWEL BARS 1 1/2"	EACH	40		40
44213208	TIE BARS 1 1/4"	EACH	20		20
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	1216		1216

+ INDICATES SPECIALTY ITEM

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REVISION	DATE	BY	REMARKS	DESIGNED	ATK
				DRAWN	CJI
				REVIEWED	XXX
				APPROVED	XXX

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

WA

WILLETT HOFMANN
& ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-030918

SUMMARY OF QUANTITIES

SHEET 1 OF 5

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	3
WHA" 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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SUMMARY OF QUANTITIES

PAY CODE	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
					BRIDGE
				0042	0010
				RURAL	RURAL
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	899		899
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	179		179
50200300	COFFERDAM EXCAVATION	CU YD	961		961
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1		1
50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1		1
50300225	CONCRETE STRUCTURES	CU YD	498.5		498.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	613.7		613.7
50300265	SEAL COAT CONCRETE	CU YD	484.0		484.0
50300280	CONCRETE ENCASEMENT	CU YD	12.0		12.0
50300300	PROTECTIVE COAT	SQ YD	2190		2190
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	97.1		97.1
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1
50500505	STUD SHEAR CONNECTORS	EACH	4200		4200
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	233550		233550

+ INDICATES SPECIALTY ITEM

REVISION	DATE	BY	REMARKS	DESIGNED	ATK
				DRAWN	CJI
				REVIEWED	XXX
				APPROVED	XXX

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLETT HOFMANN
& ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-030918

SUMMARY OF QUANTITIES

SHEET 2 OF 5

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	4
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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SUMMARY OF QUANTITIES

PAY CODE	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
					BRIDGE
				0042	0010
				RURAL	RURAL
50800515	BAR SPLICERS	EACH	1527		1527
+ 50901720	BICYCLE RAILING	FOOT	28		28
51201900	FURNISHING STEEL PILES HP14X89	FOOT	5858		5858
51202305	DRIVING PILES	FOOT	5858		5858
51203900	TEST PILE STEEL HP14X89	EACH	6		6
51204650	PILE SHOES	EACH	100		100
51500100	NAME PLATES	EACH	1		1
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	12		12
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	6		6
52100520	ANCHOR BOLTS, 1"	EACH	36		36
52100540	ANCHOR BOLTS, 1 1/2"	EACH	12		12
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	264		264
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	111		111
60146305	PIPE UNDERDRAINS FOR STRUCTURES (SPECIAL) 4"	FOOT	218		218
+ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1563		1563

+ INDICATES SPECIALTY ITEM

REVISION	DATE	BY	REMARKS	DESIGNED	ATK
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				REVIEWED	XXX
				APPROVED	XXX

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
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809 EAST 2ND STREET, DIXON, IL 61021-0367
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SUMMARY OF QUANTITIES

SHEET 3 OF 5

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	5
WHA" 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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SUMMARY OF QUANTITIES

PAY CODE	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
					BRIDGE
				0042	0010
				RURAL	RURAL
+ 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4		4
+ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4		4
63200310	GUARDRAIL REMOVAL	FOOT	2000		2000
+ 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	928		928
+ 66900530	SOIL DISPOSAL ANALYSIS	EACH	1		1
+ 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1		1
+ 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1		1
+ 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	30		30
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6		6
67100100	MOBILIZATION	L SUM	1		1
+ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4		4
+ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3489		3489
+ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	20		20
+ 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	12		12
+ 78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	4		4

+ INDICATES SPECIALTY ITEM

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WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
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809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-030918

SUMMARY OF QUANTITIES

SHEET 4 OF 5

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	6
WHA# 1570D23		CONTRACT NO. 85764		
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SUMMARY OF QUANTITIES

PAY CODE	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
					BRIDGE
				0042 RURAL	0010 RURAL
Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	1669		1669
Z0076600	TRAINEES	HOUR	1000	1000	
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000	1000	
X2020410	EARTH EXCAVATION (SPECIAL)	CU YD	980		980
X2501020	SEEDING, CLASS 2A (SPECIAL)	ACRE	1.00		1.00
X2810108	STONE RIPRAP, CLASS A4 (SPECIAL)	SQ YD	96		96
X2810110	STONE RIPRAP, CLASS A5 (SPECIAL)	SQ YD	1212		1212
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1315		1315
X5080530	BAR TERMINATORS	EACH	252		252
X5230174	DRAINAGE SCUPPERS, DS-11	EACH	6		6
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		1

+ INDICATES SPECIALTY ITEM

REVISION	DATE	BY	REMARKS	DESIGNED	ATK
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				APPROVED	XXX

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
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809 EAST 2ND STREET, DIXON, IL 61021-0367
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SUMMARY OF QUANTITIES

SHEET 5 OF 5

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	7
WHA" 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

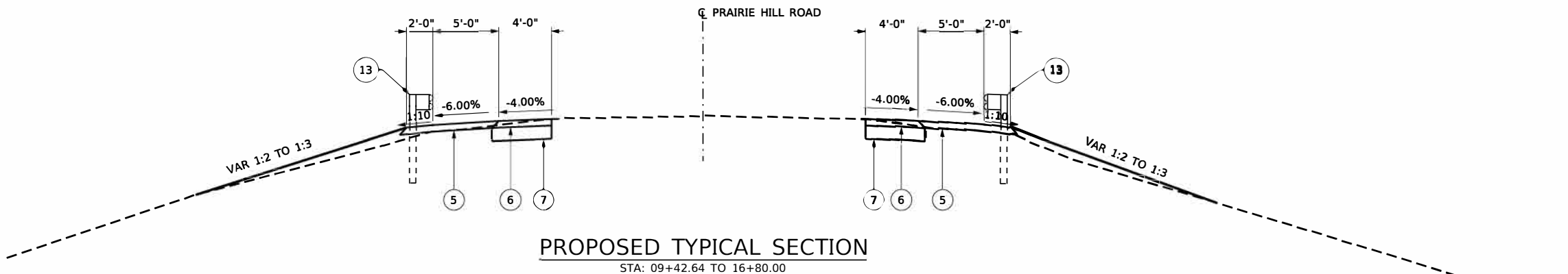
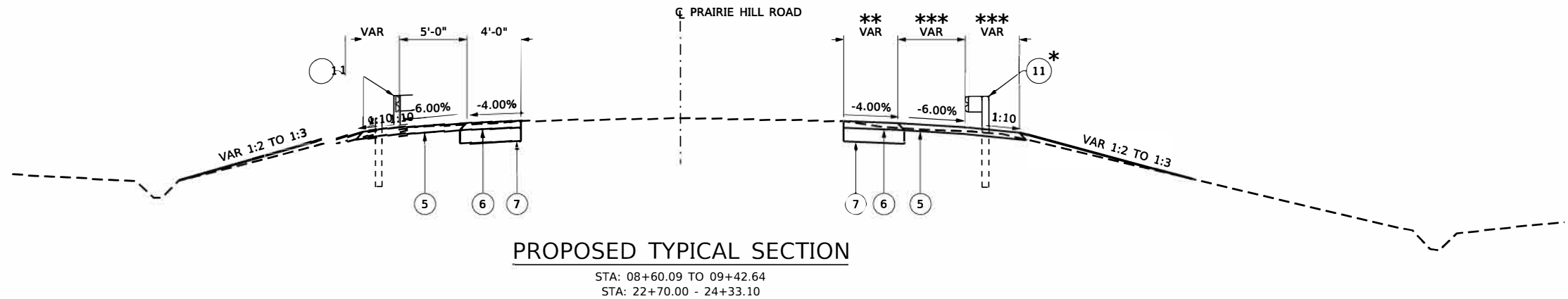
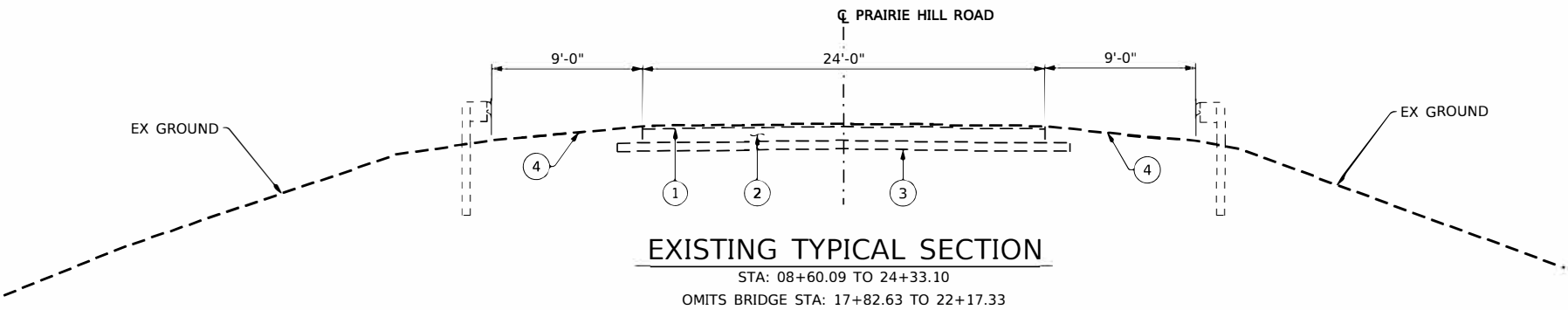
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- LEGEND:
- 1 EXISTING HMA SURFACE (VARIES 0" TO 2")
 - 2 EXISTING CONCRETE PAVEMENT (10 INCHES)
 - 3 EXISTING SUBBASE GRANNULAR MATERIAL (6 INCHES)
 - 4 EXISTING AGGREGATE SHOULDERS
 - 5 AGGREGATE SHOULDERS, TYPE B 6"
 - 6 HOT-MIX ASPHALT SHOULDERS, 6"
 - 7 AGGREGATE SUBGRADE IMPROVEMENT
 - 8 CLASS B PATHCES, TYPE IV, 10 INCH W/ 2" HMA SURFACE COURSE N50
 - 9 PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB (NOT SHOWN)
 - 10 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
 - 11 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
 - 12 TRAFFIC BARRIER TERMINAL, TYPE 6
 - 13 REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A

- NOTES:
- * TYPE 1 GUARDRAIL ENDS AT STA 23+30 ON SOUTH EAST SIDE OF BRIDGE
 - ** HMA SHOULDER ENDS AT STA 22+95 ON SOUTH EAST SIDE OF BRIDGE
 - *** AGGREGATE SHOULDER ENDS AT STA 23+40 ON SOUTH EAST SIDE OF BRIDGE

HOT-MIX ASPHALT MIX CHART

LOCATIONS:	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA SURFACE	HMA BINDER
BINDER GRADE (PG):	PG 58-28	PG 58-28
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL-9.5	IL-19.0
FRICTION AGGREGATE:	MIXTURE C	N/A
MIXTURE WEIGHT:	112.0 LB/SY/IN	N/A
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA
LIFT THICKNESS:	2"	2"
DENSITY TEST METHOD:	NUCLEAR	NUCLEAR
MATERIAL TRANSFER DEVICE (REQUIRED):	NO	NO



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REVISION	DATE	BY	REMARKS	DESIGNED	CBG
				DRAWN	CJI
				REVIEWED	ATK
				APPROVED	MRI

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER



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T: 815-284-3381 DESIGN FIRM: #184-000918

TYPICAL SECTIONS

SHEET 1 OF 2

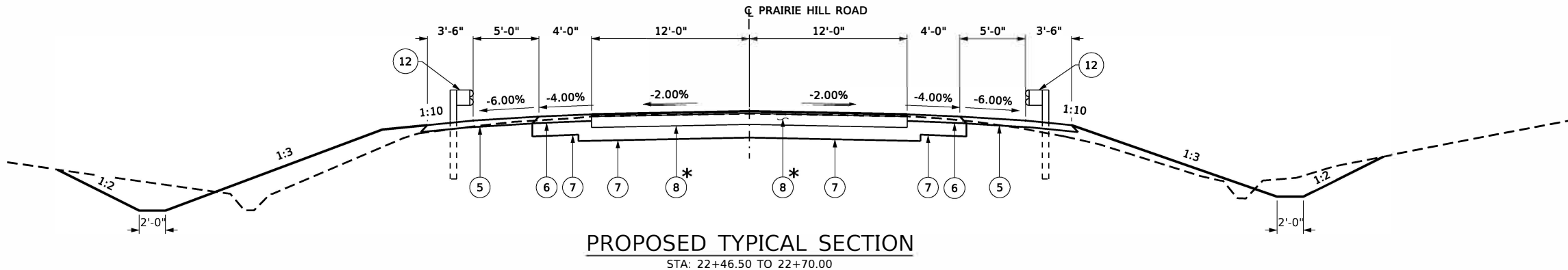
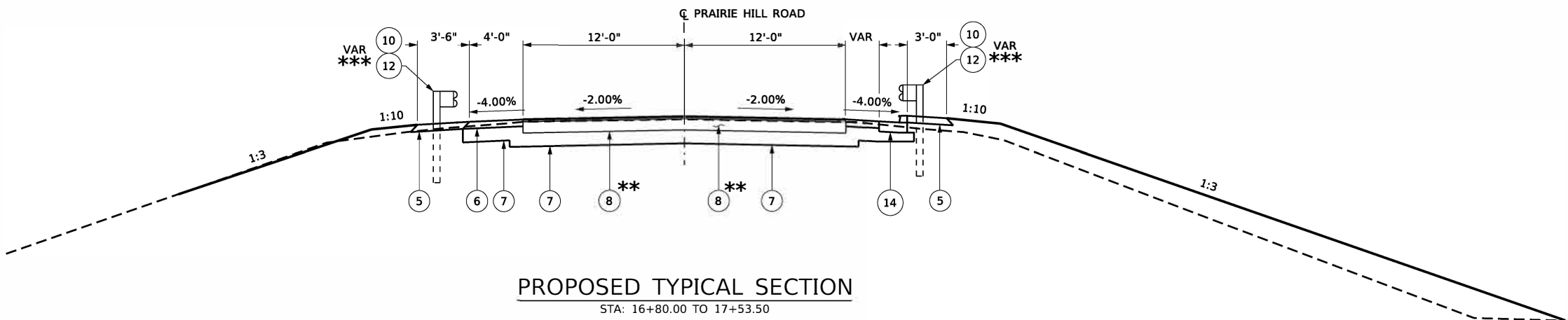
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	8
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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- LEGEND:
- 1 EXISTING HMA SURFACE (VARIES 0" TO 2")
 - 2 EXISTING CONCRETE PAVEMENT (10 INCHES)
 - 3 EXISTING SUBBASE GRANNULAR MATERIAL (6 INCHES)
 - 4 EXISTING AGGREGATE SHOULDERS
 - 5 AGGREGATE SHOULDERS, TYPE B 6"
 - 6 HOT-MIX ASPHALT SHOULDERS, 6"
 - 7 AGGREGATE SUBGRADE IMPROVEMENT
 - 8 CLASS B PATHCES, TYPE IV, 10 INCH W/ 2" HMA SURFACE COURSE N50
 - 9 PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB (NOT SHOWN)
 - 10 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
 - 11 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
 - 12 TRAFFIC BARRIER TERMINAL, TYPE 6
 - 13 REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A
 - 14 COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18

- NOTES:
- * CLASS B PATCH FROM STA 22+61 TO 22+70
PAVEMENT CONNECTOR FROM STA 22+46.5 TO 22+61
 - ** CLASS B PATCH FROM STA 16+80 TO 17+39
PAVEMENT CONNECTOR FROM STA 17+39 TO 17+53.5
 - *** CLASS A GUARDRAIL FROM STA 16+51 TO 17+11
TYPE 6 TERMINAL FROM STA 17+11 TO 17+78



HOT-MIX ASPHALT MIX CHART

LOCATIONS:	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA SURFACE	HMA BINDER
BINDER GRADE (PG):	PG 58-28	PG 58-28
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL-9.5	IL-19.0
FRICTION AGGREGATE:	MIXTURE C	N/A
MIXTURE WEIGHT:	112.0 LB/SY/IN	N/A
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA
LIFT THICKNESS:	2"	2"
DENSITY TEST METHOD:	NUCLEAR	NUCLEAR
MATERIAL TRANSFER DEVICE (REQUIRED):	NO	NO

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REVISION	DATE	BY	REMARKS	DESIGNED	CBG
				DRAWN	C.J.
				REVIEWED	ATK
				APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER

WILLET HOFMANN
ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3331 DESIGN: F1 RM 18 4-000918

TYPICAL SECTIONS

SHEET 2 OF 2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	9
WHA* 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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SCHEDULE OF QUANTITIES

TREE REMOVAL, ACRES		
STATION	ACRE	REMARKS
PRAIRIE HILL ROAD		
LT 16+27 - 17+93	0.12	
RT 16+29 - 17+93	0.18	
PROJECT TOTAL	0.30	
20100500		

TOPSOIL FURNISH AND PLACE, 4"		
STATION	SQ YD	REMARKS
PRAIRIE HILL ROAD		
RT 8+50 - 17+93	1,456	
LT 8+55 - 17+93	1,120	
RT 22+00 - 23+50	480	
LT 22+25 - 24+43	797	
PROJECT TOTAL	3,853	
21101615		

EROSION CONTROL BLANKET		
STATION	SQ YD	REMARKS
PRAIRIE HILL ROAD		
RT 8+50 - 17+93	1,456	
LT 8+55 - 17+93	1,120	
RT 22+00 - 23+50	480	
LT 22+25 - 24+43	797	
PROJECT TOTAL	3,853	
25100630		

TEMPORARY EROSION CONTROL SEEDING		
STATION	POUND	REMARKS
PRAIRIE HILL ROAD		
CONTIGENCY ITEM	16	20% OF EROSION CONTROL AREA
PROJECT TOTAL	16	
28000250		

PERIMETER EROSION BARRIER		
STATION	FOOT	REMARKS
PRAIRIE HILL ROAD		
RT 8+50 - 17+93	1,004	
LT 8+55 - 17+93	1,012	
LT 22+25 - 24+43	257	
RT 22+00 - 23+50	177	
PROJECT TOTAL	2,450	
28000400		

STONE RIPRAP, CLASS A4 (SPECIAL)		
STATION	SQ YD	REMARKS
PRAIRIE HILL ROAD		
RT 17+28 - 17+38	31	AMORED SLOPE, 10' WIDTH
LT 17+51 - 17+61	34	AMORED SLOPE, 10' WIDTH
RT 22+43 - 22+53	15	AMORED SLOPE, 10' WIDTH
LT 22+53 - 22+63	16	AMORED SLOPE, 10' WIDTH
PROJECT TOTAL	96	
X2810108		

AGGREGATE SUBGRADE IMPROVEMENT		
STATION	TON	REMARKS
PRAIRIE HILL ROAD		
LT 8+65 - 16+80	306	HMA SHOULDER
RT 8+60 - 16+80	303	HMA SHOULDER
16+80 - 17+60	146	PAVEMENT CONNECTOR
22+40 - 22+70	47	PAVEMENT CONNECTOR
RT 22+70 - 22+95	19	HMA SHOULDER
LT 22+70 - 24+33	63	HMA SHOULDER
PROJECT TOTAL	884	
30300011		

BITUMINOUS MATERIALS (TACK COAT)		
STATION	POUND	REMARKS
PRAIRIE HILL ROAD		
RT 8+60 - 17+48	89	MAINLINE
LT 8+64 - 17+60	90	MAINLINE
LT 22+51 - 24+33	19	MAINLINE
RT 22+41 - 23+40	6	MAINLINE
PROJECT TOTAL	204	
40600290		

HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50		
STATION	TON	REMARKS
PRAIRIE HILL ROAD		
16+80 - 17+39	18	2' HMA SURFACE ABOVE PCC PATCH
22+61 - 22+70	3	2' HMA SURFACE ABOVE PCC PATCH
PROJECT TOTAL	21	
40604050		

PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB		
STATION	SQ YD	REMARKS
PRAIRIE HILL ROAD		
17+39 - 17+54	40	WEST CONNECTOR
22+47 - 22+61	40	EAST CONNECTOR
PROJECT TOTAL	80	
42000070		

PAVEMENT REMOVAL		
STATION	SQ YD	REMARKS
PRAIRIE HILL ROAD		
16+80 - 17+54	198	
22+47 - 22+70	63	
PROJECT TOTAL	261	
44000100		

REVISION	DATE	BY	REMARKS	DESIGNED	CJI
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				REVIEWED	XXX
				APPROVED	XXX

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



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ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-030918

SCHEDULE OF QUANTITIES

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	10
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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SCHEDULE OF QUANTITIES

CLASS B PATCHES, TYPE IV, 10 INCH		
STATION	SQ YD	REMARKS
PRAIRIE HILL ROAD		
16+80 - 17+39	158	10" CONCRETE BELOW HMA SURFACE
22+61 - 22+70	24	10" CONCRETE BELOW HMA SURFACE
PROJECT TOTAL	182	
44200976		

DOWEL BARS 1 1/2"		
STATION	EACH	REMARKS
PRAIRIE HILL ROAD		
RT 16+80	10	CLASS B PATCH BEFORE BRIDGE
LT 16+80	10	CLASS B PATCH BEFORE BRIDGE
RT 22+70	10	CLASS B PATCH AFTER BRIDGE
LT 22+70	10	CLASS B PATCH AFTER BRIDGE
PROJECT TOTAL	40	
44201299		

TIE BARS 1 1/4"		
STATION	EACH	REMARKS
PRAIRIE HILL ROAD		
16+80 - 17+39	18	CLASS B PATCH BEFORE BRIDGE
22+61 - 22+70	2	CLASS B PATCH AFTER BRIDGE
PROJECT TOTAL	20	
44213208		

AGGREGATE SHOULDERS, TYPE B 6"		
STATION	SQ YD	REMARKS
PRAIRIE HILL ROAD		
RT 8+60 - 17+46	509	MAINLINE
LT 8+64 - 17+80	530	MAINLINE
LT 22+36 - 24+33	123	MAINLINE
RT 22+38 - 23+40	54	MAINLINE
PROJECT TOTAL	1,216	
48101500		

HOT-MIX ASPHALT SHOULDERS, 6"		
STATION	SQ YD	REMARKS
PRAIRIE HILL ROAD		
RT 8+60 - 17+48	395	MAINLINE
LT 8+64 - 17+60	398	MAINLINE
LT 22+51 - 24+33	81	MAINLINE
RT 22+41 - 23+40	25	MAINLINE
PROJECT TOTAL	899	
48203021		

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS		
STATION	FOOT	REMARKS
PRAIRIE HILL ROAD		
RT 9+40 - 17+11	700	MAINLINE
LT 9+40 - 17+11	788	MAINLINE
LT 22+75 - 23+47	75	MAINLINE
PROJECT TOTAL	1,563	
63000001		

TRAFFIC BARRIER TERMINAL, TYPE 6		
STATION	EACH	REMARKS
PRAIRIE HILL ROAD		
LT 17+47	1	
RT 17+47	1	
RT 22+50	1	
LT 22+50	1	
PROJECT TOTAL	4	
63100085		

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT		
STATION	EACH	REMARKS
PRAIRIE HILL ROAD		
LT 9+00	1	
RT 9+00	1	
RT 23+00	1	
LT 24+00	1	
PROJECT TOTAL	4	
63100167		

GUARDRAIL REMOVAL		
STATION	FOOT	REMARKS
PRAIRIE HILL ROAD		
RT 8+95 - 17+86	878	MAINLINE
LT 8+95 - 17+86	890	MAINLINE
LT 22+28 - 23+44	116	MAINLINE
RT 22+14 - 23+30	116	MAINLINE
PROJECT TOTAL	2,000	
63200310		

REVISION	DATE	BY	REMARKS	DESIGNED	CJI
				DRAWN	CJI
				REVIEWED	XXX
				APPROVED	XXX

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



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ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-030918

SCHEDULE OF QUANTITIES

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	11
WHA" 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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SCHEDULE OF QUANTITIES

TERMINAL MARKER - DIRECT APPLIED		
STATION	EACH	REMARKS
PRAIRIE HILL ROAD		
LT 8+91	1	
RT 8+88	1	
RT 23+30	1	
LT 23+98	1	
PROJECT TOTAL		
72501000		

PAINT PAVEMENT MARKING - LINE 4"		
STATION	FOOT	REMARKS
PRAIRIE HILL ROAD		
RT 8+60 - 23+87	1,527	SOLID WHITE EDGE LINE
8+60 - 24+33	394	YELLOW SKIP-DASH LINE
LT 8+65 - 24+33	1,568	SOLID WHITE EDGE LINE
PROJECT TOTAL		
78001110		

RAISED REFLECTIVE PAVEMENT MARKER		
STATION	EACH	REMARKS
PRAIRIE HILL ROAD		
8+60 - 24+33	20	80' MAX SPACING
PROJECT TOTAL		
78100100		

GUARDRAIL REFLECTORS, TYPE A		
STATION	EACH	REMARKS
PRAIRIE HILL ROAD		
RT 8+88 - 17+50	6	
LT 8+91 - 17+78	3	
RT 22+37 - 23+30	1	
LT 22+36 - 23+98	2	
PROJECT TOTAL		
78200005		

BARRIER WALL REFLECTORS, TYPE B		
STATION	EACH	REMARKS
PRAIRIE HILL ROAD		
RT 17+50 - 22+37	1	
LT 17+78 - 22+36	3	
PROJECT TOTAL		
78200010		

SEEDING, CLASS 2A (SPECIAL)		
STATION	ACRE	REMARKS
PRAIRIE HILL ROAD		
RT 8+50 - 17+93	0.25	MAINLINE
LT 8+55 - 17+93	0.25	MAINLINE
RT 22+00 - 23+50	0.25	MAINLINE
LT 22+25 - 24+43	0.25	MAINLINE
PROJECT TOTAL		
X2501020		

EARTHWORK SCHEDULE

SEE COMMITMENT #6 ON PAGE 2 FOR ADDITIONAL EARTHWORK INFORMATION

LOCATION	EARTH EXCAVATION (SPECIAL) X2020410 (Cu Yd)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE 25%	EMBANKMENT	EARTH BALANCE WASTE (+) OR FURNISHED EXCAVATION (-) 20400800 (Cu Yd)
PRAIRIE HILL ROAD	980	735	735	-
TOTALS	980	735	735	0

REVISION	DATE	BY	REMARKS

DESIGNED	CJI
DRAWN	CJI
REVIEWED	XXX
APPROVED	XXX

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLETT HOFMANN
& ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-030918

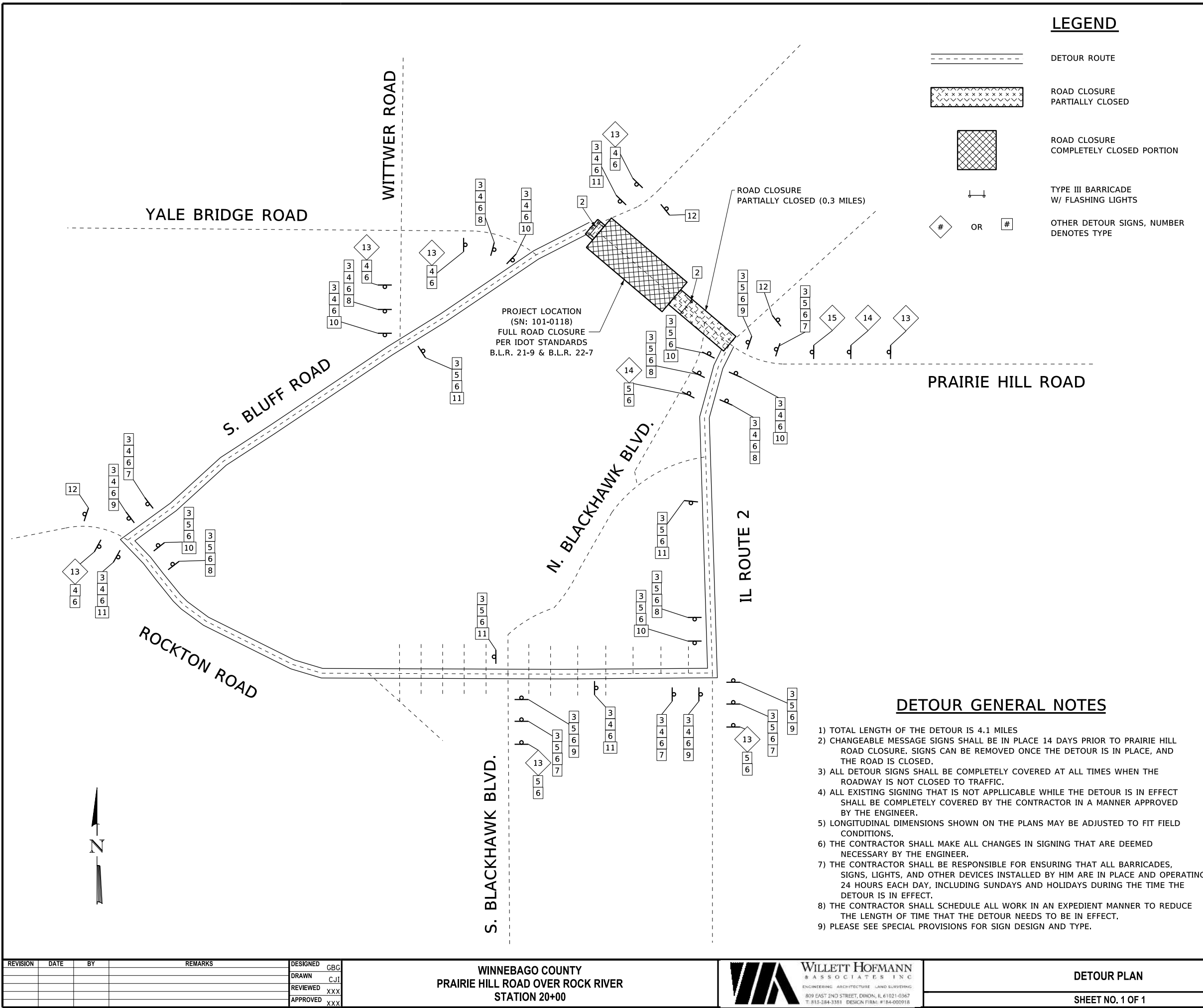
SCHEDULE OF QUANTITIES

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	12
WHA* 1570D23		CONTRACT NO. 85764		
		ILLINOIS FED. AID PROJECT		

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SIGN LEGEND

1	ROAD CLOSED TO THRU TRAFFIC	R11-4, 60" X 30"
2	ROAD CLOSED	R11-2, 48" X 30"
3	DETOUR	M4-8, 24" X 12"
4	EAST	M3-2(0), 24" X 12"
5	WEST	M3-4(0), 24" X 12"
6	PRAIRIE HILL ROAD	MI - I100, 36" X 24"
7	Left Turn Arrow	M5-1L(0), 21" X 15"
8	Right Turn Arrow	M5-1R(0), 21" X 15"
9	Left Arrow	M6-1L(0), 21" X 15"
10	Right Arrow	M6-1R(0), 21" X 15"
11	Up Arrow	M6-3(0), 21" X 15"
12	END DETOUR	M4-8a, 24" X 18"
13	DETOUR AHEAD	W20-2, 48" X 48" WITH AMBER FLASHING LIGHTS AND FLAG.
14	ROAD CLOSED AHEAD	W20-3, 48" X 48" WITH AMBER FLASHING LIGHTS AND FLAG.
15	ROAD CLOSED 1000 FT	W20-3, 48" X 48" WITH AMBER FLASHING LIGHTS AND FLAG.

TYPICAL DETOUR & ROAD CLOSURE SIGN SPACING

REVISION	DATE	BY	REMARKS	DESIGNED	GBG
				DRAWN	CJI
				REVIEWED	XXX
				APPROVED	XXX

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

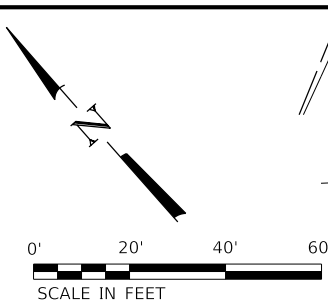


DETOUR PLAN

SHEET NO. 1 OF 1

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	13
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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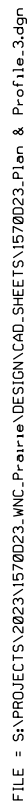
MATCHLINE 11+00.00

EXISTING OUTLET ✓

[illegible]

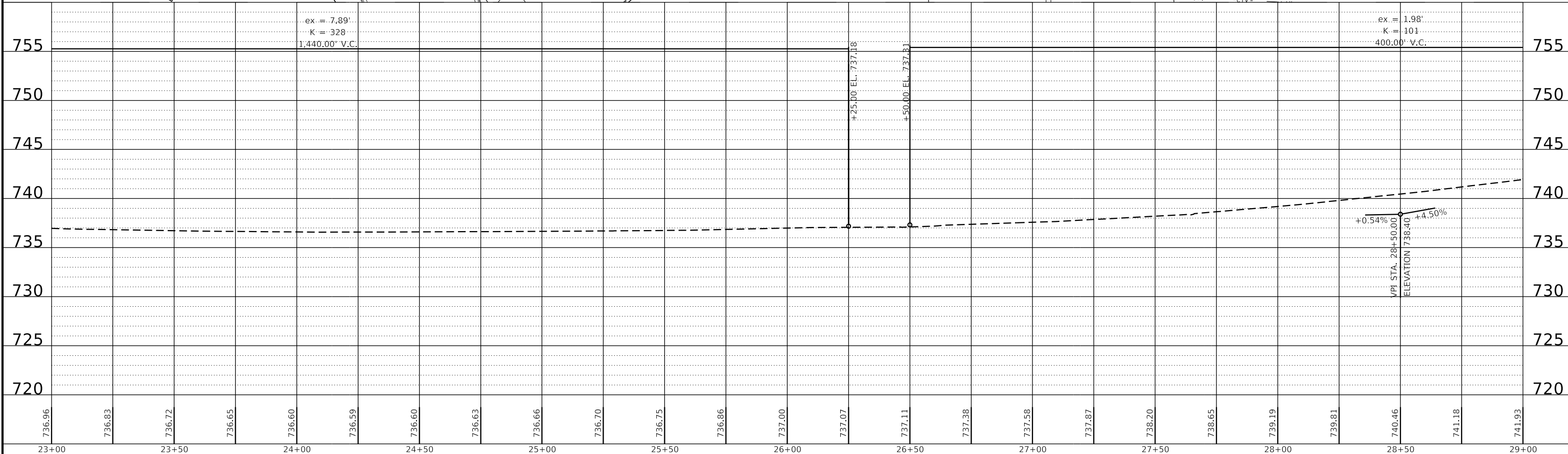
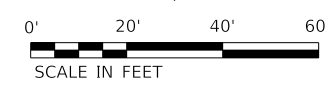
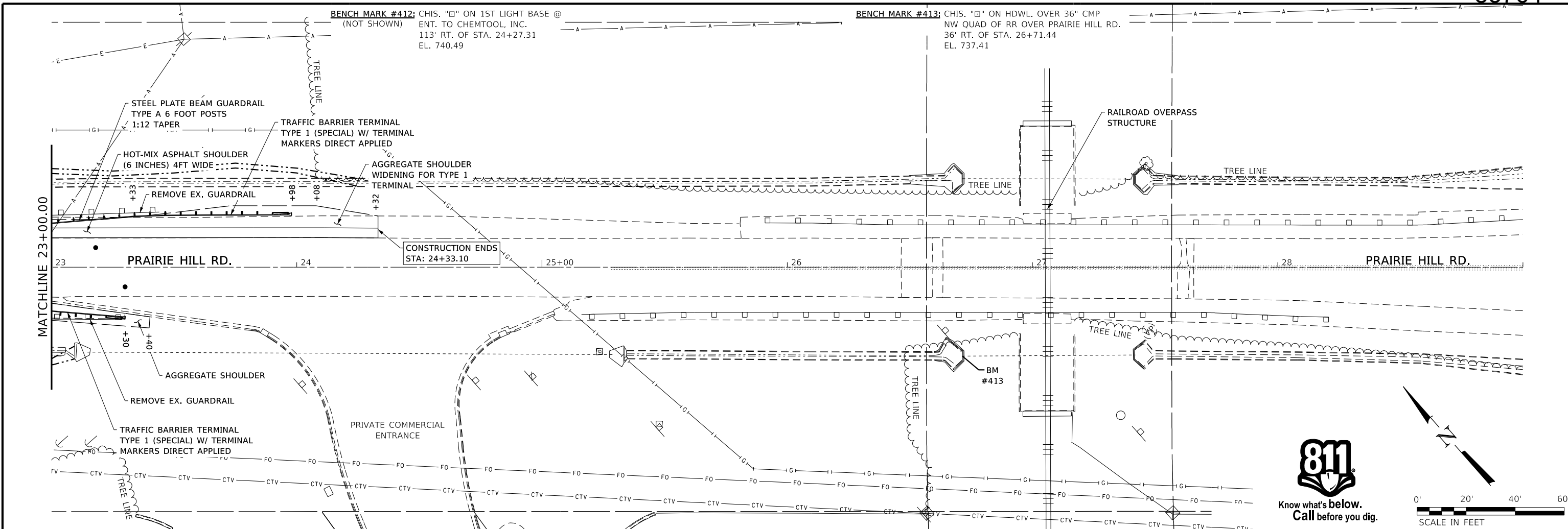
REVISION	DATE	BY	REMARKS	DESIGNED	GBG	WINNEBAGO COUNTY PRAIRIE HILL ROAD OVER ROCK RIVER STATION 20+00	 WILLETT HOFMANN ASSOCIATES INC. ENGINEERING ARCHITECTURE LAND SURVEYING 809 EAST 2ND STREET, DIXON, IL 61021-0367 T: 815-284-3381 DESIGN FIRM: #184-000918	PLAN AND PROFILE	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				DRAWN	GBG				9876	18-00655-00-BR	WINNEBAGO	89	14
				REVIEWED	ATK				WHA# 1570D23		CONTRACT NO. 85764		
				APPROVED	MRI				SHEET NO. 1 OF 4 SHEETS		ILLINOIS FED. AID PROJECT		





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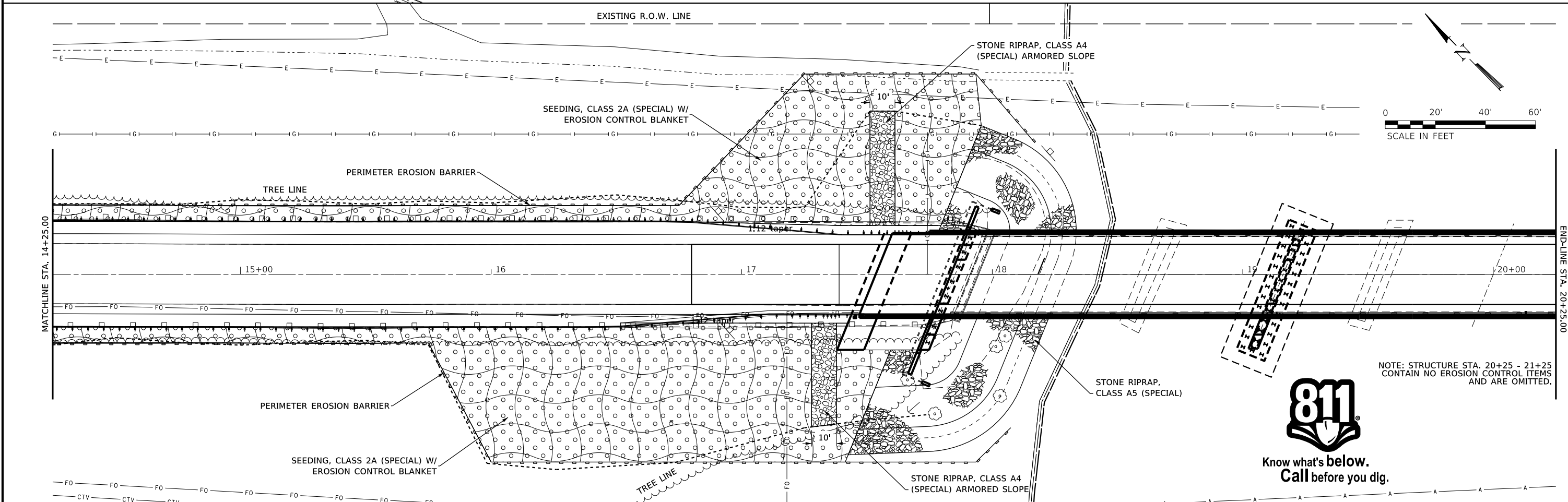
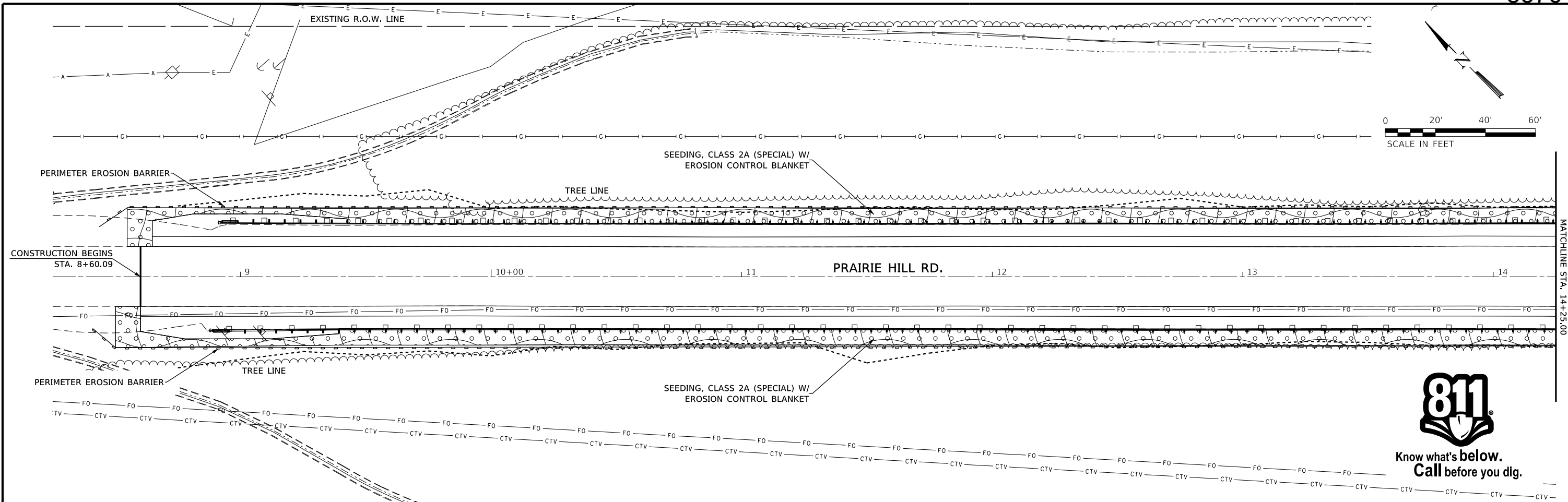
REVISION	DATE	BY	REMARKS	DESIGNED	DRAWN	REVIEWED	APPROVED	WINNEBAGO COUNTY PRAIRIE HILL ROAD OVER ROCK RIVER STATION 20+00	WILLET HOFMANN & ASSOCIATES INC. ENGINEERING ARCHITECTURE LAND SURVEYING 809 EAST 2ND STREET, DIXON, IL 61021-0367 T: 815-284-3351 DESIGN FIRM: #184-000918	PLAN AND PROFILE	SHEET NO. 4 OF 4 SHEETS	F.A.U. RTE. 9876	SECTION 18-00655-00-BR	COUNTY WINNEBAGO	TOTAL SHEETS 89	SHEET NO. 17	CONTRACT NO. 85764	ILLINOIS FED. AID PROJECT
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REVISION	DATE	BY	REMARKS	DESIGNED XXX	WINNEBAGO COUNTY PRAIRIE HILL ROAD OVER ROCK RIVER STATION 20+00	 WILLETT HOFMANN ASSOCIATES INC ENGINEERING ARCHITECTURE LAND SURVEYING 809 EAST 2ND STREET, DIXON, IL 61021-0367 T: 815-284-3381 DESIGN FIRM: #184-000918	GRADING PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
				DRAWN CJJ				9876	18-00655-00-BR	WINNEBAGO	89	18	
				REVIEWED XXX					WHA# 1570D23	CONTRACT NO. 85764			
				APPROVED XXX					SHEET NO. 1 OF 1 SHEETS				
								ILLINOIS FED. AID PROJECT					

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NOTE: STRUCTURE STA. 20+25 - 21+25
CONTAIN NO EROSION CONTROL ITEMS
AND ARE OMITTED.

REVISION	DATE	BY	REMARKS

DESIGNED	XXX
DRAWN	CJI
REVIEWED	XXX
APPROVED	XXX

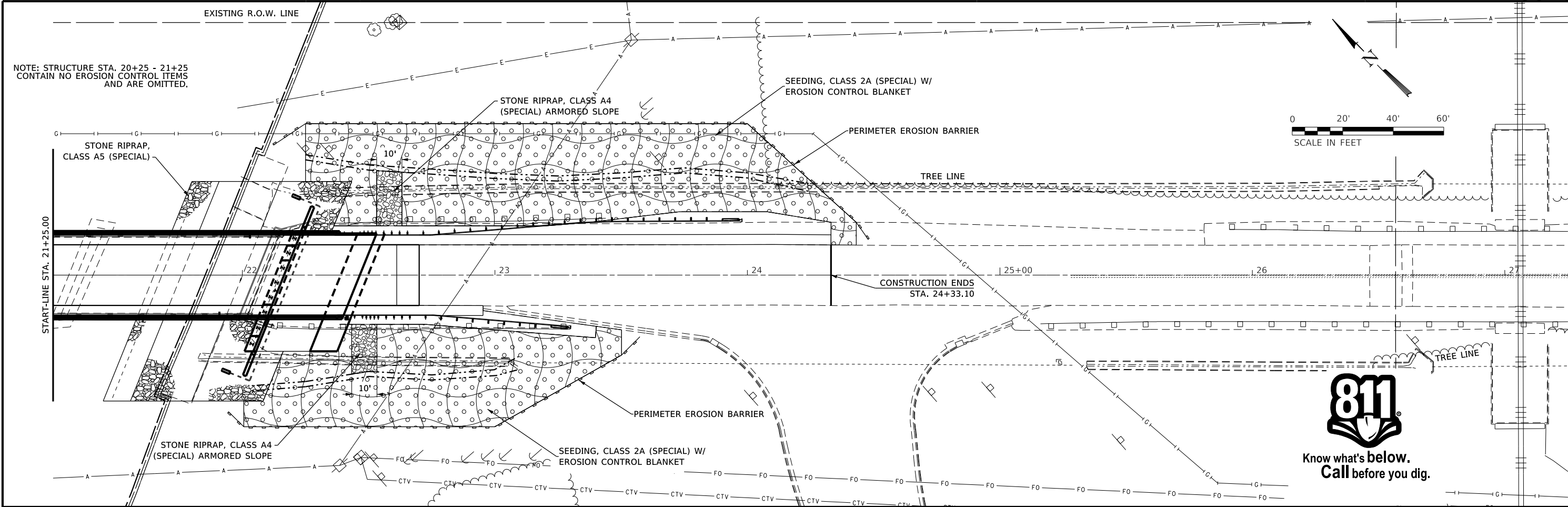
WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



EROSION CONTROL PLAN
SHEET NO. 1 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	19
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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EROSION CONTROL NOTES

THE SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND AFTER 1/2 INCH OF RAIN OR MORE BY THE INDIVIDUAL ON SITE IN CHARGE OF SOIL EROSION AND SEDIMENT CONTROL DURING THE CONSTRUCTION OF THE PROJECT.

PERIMETER EROSION BARRIER SHALL COMPLY WITH SECTION 280 OF THE STANDARD SPECIFICATIONS AND SHALL BE PLACED AS SHOWN ON THIS EROSION CONTROL PLAN AND IN ACCORDANCE WITH STATIONS SHOWN ON THE SCHEDULE OF QUANTITIES SHEET OR AS DIRECTED BY THE ENGINEER.

EROSION CONTROL BLANKET SHALL BE PLACED ON ALL DISTURBED AREAS AS SHOWN ON THIS EROSION CONTROL PLAN SHEET AND IN ACCORDANCE WITH SECTION 251 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE USE OF GREEN DYE IN THE EROSION CONTROL BLANKET IS NOT ACCEPTABLE.

STOCKPILES OF SOIL AND OTHER MATERIALS TO REMAIN IN PLACE MORE THAN 3 DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

LEGEND

- PERIMETER EROSION BARRIER
- EROSION CONTROL BLANKET
- SEEDING, CLASS 2A (SPECIAL)
- STONE RIPRAP, CLASS A4 & A5 (SPECIAL)

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REVISION	DATE	BY	REMARKS	DESIGNED	XXX
				DRAWN	CJI
				REVIEWED	XXX
				APPROVED	XXX

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



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809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

EROSION CONTROL PLAN

SHEET NO. 2 OF 2 SHEETS

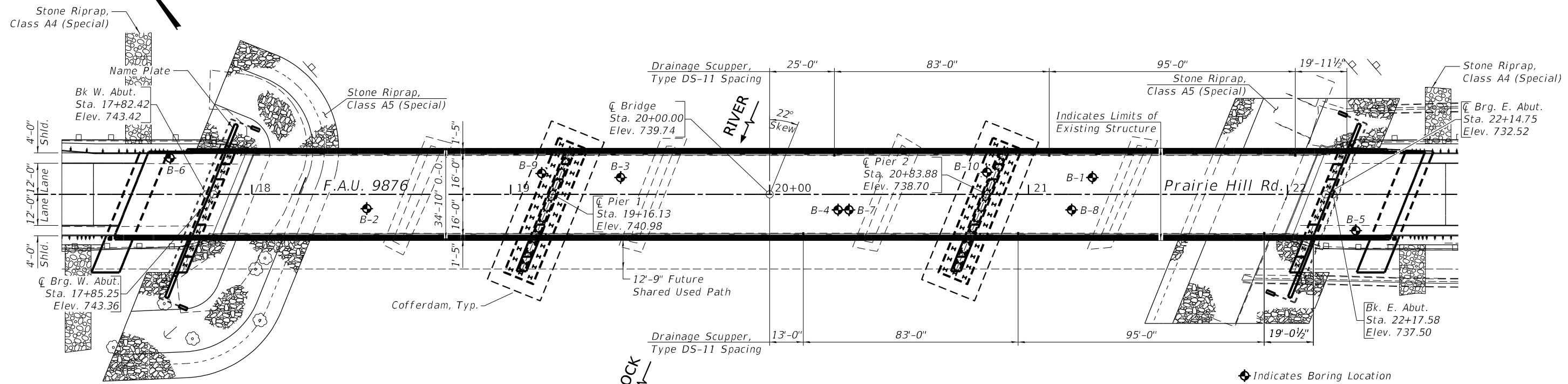
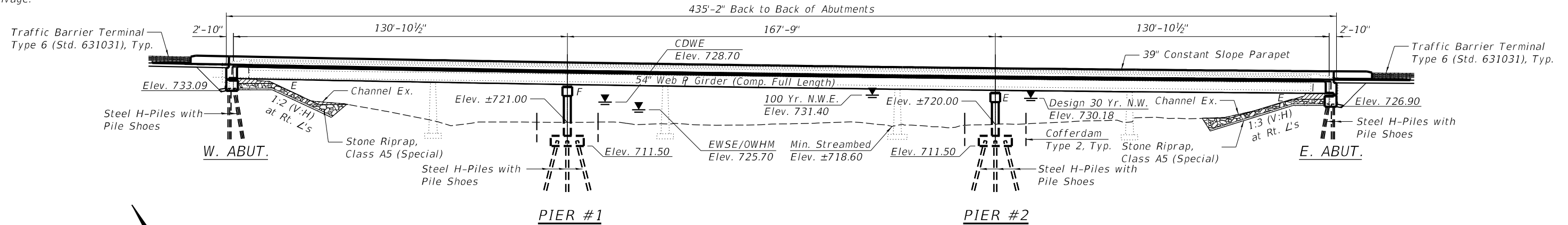
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	20
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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Existing Structure: S.N. 101-0118 Originally built in 1966 as C.H. 76 Section 133-B-Cf. The existing structure consists of 5 continuous steel spans, 420'-6" Bk. to Bk. abutments and 36'-0" Out to Out of deck, on pile supported abutments and spread footing piers. Structure to be removed and replaced. Bridge to be closed to traffic and traffic will be maintained utilizing a detour. No Salvage.

BENCH MARK #410: RR SPIKE IN 1ST PP N. OF PRAIRIE HILL RD. & S. BLUFF RD. INTERSECTION ±71' LT. OF STA. ±5+97.80 EL. 779.75
BENCH MARK #411: RR SPIKE IN 24" TREE ±422' NW OF BRIDGE & 26' N OF CL 26' LT. OF STA. 13+72.14 EL. 753.83
BENCH MARK #412: CHIS. "I" ON 1ST LIGHT BASE @ ENT. TO CHEMTOL, INC. 113' RT. OF STA. 24+27.31 EL. 740.49
BENCH MARK #413: CHIS. "I" ON HDWL. OVER 36" CMP NW QUAD OF RR OVER PRAIRIE HILL RD. 36' RT. OF STA. 26+71.44 EL. 737.41



DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)				Item
	W. Abut.	Pier 1	Pier 2	E. Abut.	
Q100	733.09	708.8	708.8	726.90	5
Q200	733.09	707.5	707.5	726.90	
Design	733.09	708.8	708.8	726.90	
Check	733.09	707.5	707.5	726.90	

WATERWAY INFORMATION

Drainage Area = 3,716 Sq. Mi. Low Grade Elev. 736.59 @ Sta. 24+25								
Flood	Freq. Yr.	Q C.F.S.	Opening Ft²		Nat. H.W.E.	Head - Ft.		Headwater El.
			Exist.	Prop.		Exist.	Prop.	
Design	30	13,291	3,275	3,347	730.2	0.0	0.0	730.2
Base	100	17,600	3,756	3,849	731.4	0.0	0.0	731.4
Scour	200	21,093	4,079	4,145	732.2	0.0	0.0	732.2
Max. Calc.	500	25,420	4,447	4,402	733.1	0.1	0.1	733.2

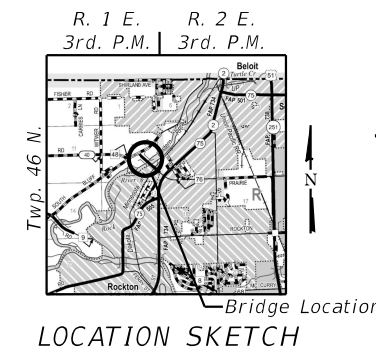
ROCK RIVER
BUILT 2026 BY
WINNEBAGO COUNTY
SECTION 18-00655-00-BR
PRAIRIE HILL ROAD STA. 20+00
STR. NO. 101-0220 LOADING HL-93

NAME PLATE LETTERING
Refer To Std. 515001



DATE: 7/23/2025
EXPIRES 11/30/26

"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 Bridge Design Specifications."



GENERAL PLAN & ELEVATION
F.A.U. 9876 (PRAIRIE HILL ROAD)
OVER ROCK RIVER
SECTION 18-00655-00-BR
EXISTING S.N. 101-0118
PROPOSED S.N. 101-0220
WINNEBAGO COUNTY
STATION 20+00.00

REVISION	DATE	BY	REMARKS	DESIGNED	ATK
				DRAWN	DAL
				REVIEWED	EEL
				APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

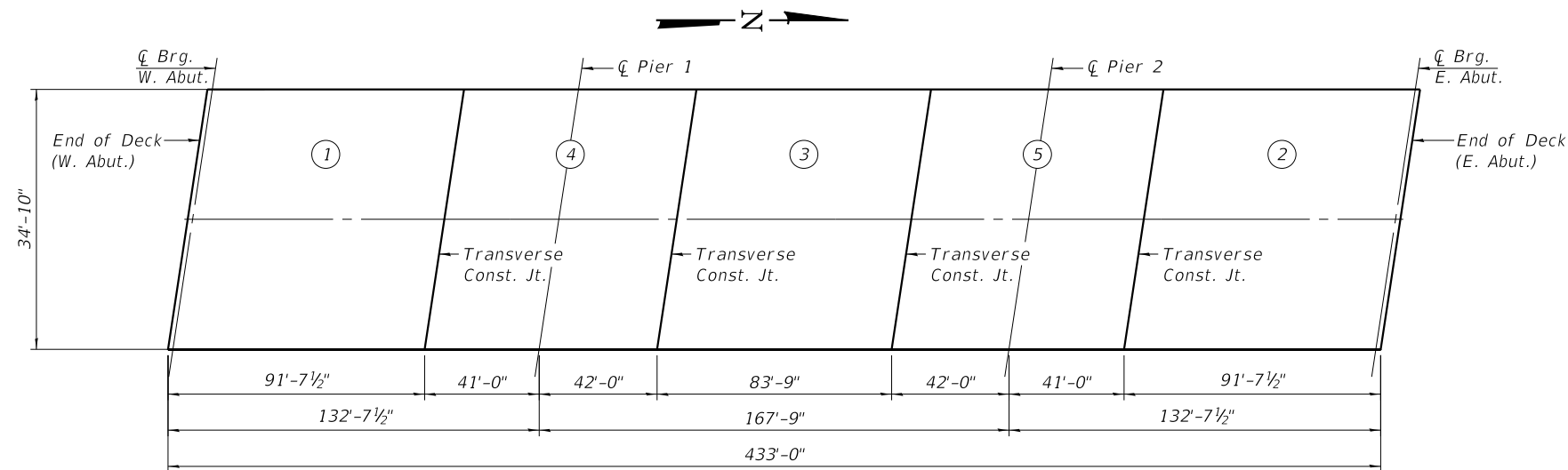


WILLETT HOFMANN
& ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

GENERAL PLAN & ELEVATION
STRUCTURAL SHEET NO. 1 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	21
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

- 1 General Plan and Elevation
- 2 General Data
- 3-4 Riprap and Pile Layout
- 5-8 Top of Slab Elevations
- 9-10 Top of Approach Slab Elevations
- 11 Superstructure
- 12 Superstructure Details
- 13-14 Diaphragm Details
- 15-18 Bridge Approach Slab Details
- 19 Framing Plan
- 20-21 Structural Steel Details
- 22 Drainage Scuppers, DS-11
- 23-25 Bearing Details
- 26-27 West Abutment Details
- 28-29 East Abutment Details
- 30-31 Pier #1 Details
- 32-33 Pier #2 Details
- 34 HP Pile Details
- 35 Concrete Parapet Slipforming Option
- 36 Bar Splicer Assembly
- 37-38 Bicycle Railing
- 39-46 Boring Logs
- 47-48 Existing Plans



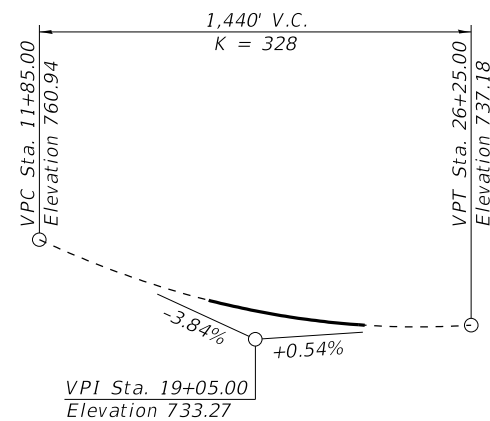
LEGEND

- ① *Pour Sequence Number*

DECK POURING SEQUENCE

When the deck pour is stopped for the day at one or more of the bonded construction joints in the deck pouring sequence as shown, the next pour shall not be made until both of the following are met:

1. At least 72 hours have elapsed from the end of the previous pour.
2. The concrete strength shall have attained a minimum flexural strength of 675 psi or a minimum compression strength of 4,000 psi



PROFILE GRADE PRAIRIE HIL ROAD

(Along C Roadway)

Up to 1/4" to be ground off the bridge deck and the bridge approach slabs. The Profile Grade shows the final grade after grinding.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.11g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.2g
Soil Site Class = D

DESIGN STRESSES

FIELD UNITS

$f'_c = 4,000 \text{ psi}$ (Superstructure)
 $f'_c = 3,500 \text{ psi}$ (Substructure)
 $f_y = 60,000 \text{ psi}$ (Reinforcement)
 $f_y = 50,000 \text{ psi}$ (M270 Grade 50W)

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

LOADING HL-93

*Allow 50#/sq. ft. for future wearing surface.
All future superstructure modifications
including future widening shall verify
impacts to the overall structure*

BYPASS FLOWRATE FROM BRIDGE LIMITS
(END OF APPROACH SLAB) TO ROADWAY

	NW Curbline	SW Curbline	NE Curbline	SE Curbline
Q (C.F.S.)	N/A	N/A	0.137	0.137

HIGHWAY CLASSIFICATION

F.A.U. 9876 – Prairie Hill Road
Functional Class: Minor Arterial
ADT: 4550 (2024 – Current); 4550 (2044 – Design)
ADTT: 137 (2024 – Current); 137 (2044 – Design)
DHV: 455
Design Speed: 50 m.p.h.
Posted Speed: 55 m.p.h.
Two-Way Traffic
Directional Distribution: 50:50

GENERAL DATA

F.A.U. 9876 (PRAIRIE HILL ROAD)

OVER ROCK RIVER

SECTION 18-00655-00-BR

EXISTING S.N. 101-0118

PROPOSED S.N. 101-0220

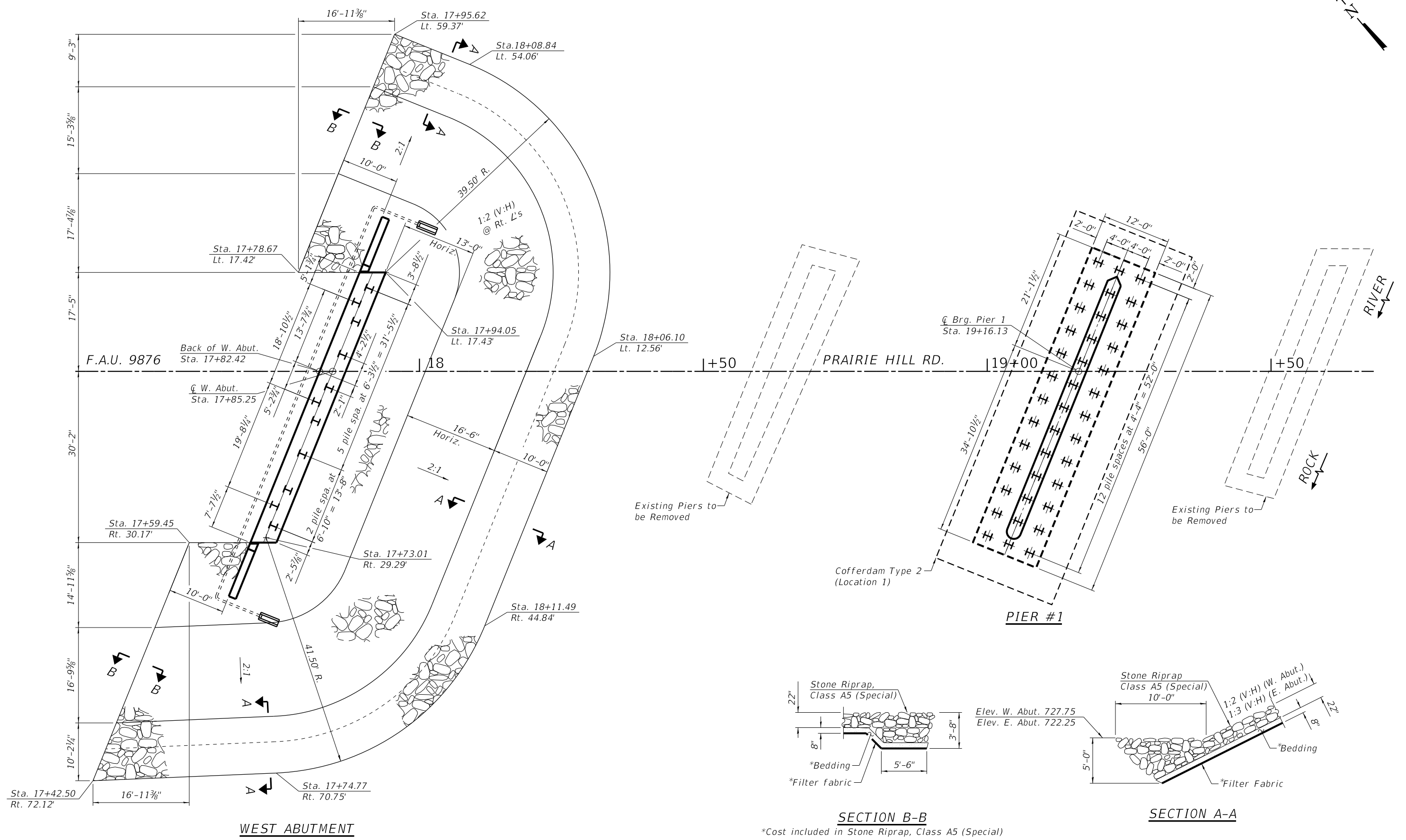
WINNEBAGO COUNTY

STATION 20+00.00

REVISION	DATE	BY	REMARKS	DESIGNED	ATK	WINNEBAGO COUNTY PRAIRIE HILL ROAD OVER ROCK RIVER STATION 20+00	WHA WILLETT HOFMANN * ASSOCIATES INC ENGINEERING ARCHITECTURE LAND SURVEYING 809 EAST 2ND STREET, DIXON, IL 61021-0367 T: 815-284-3381 DESIGN FIRM: #184-000918	GENERAL DATA			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				DRAWN	DAL			9876	18-00655-00-BR	WINNEBAGO	89	22			
				REVIEWED	EEL			WHA# 1570D23		CONTRACT NO. 85764					
				APPROVED	MRL			STRUCTURAL SHEET NO.2 OF 48 SHEETS			ILLINOIS FED. AID PROJECT				

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REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	EEL
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

WILLETT HOFMANN & ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

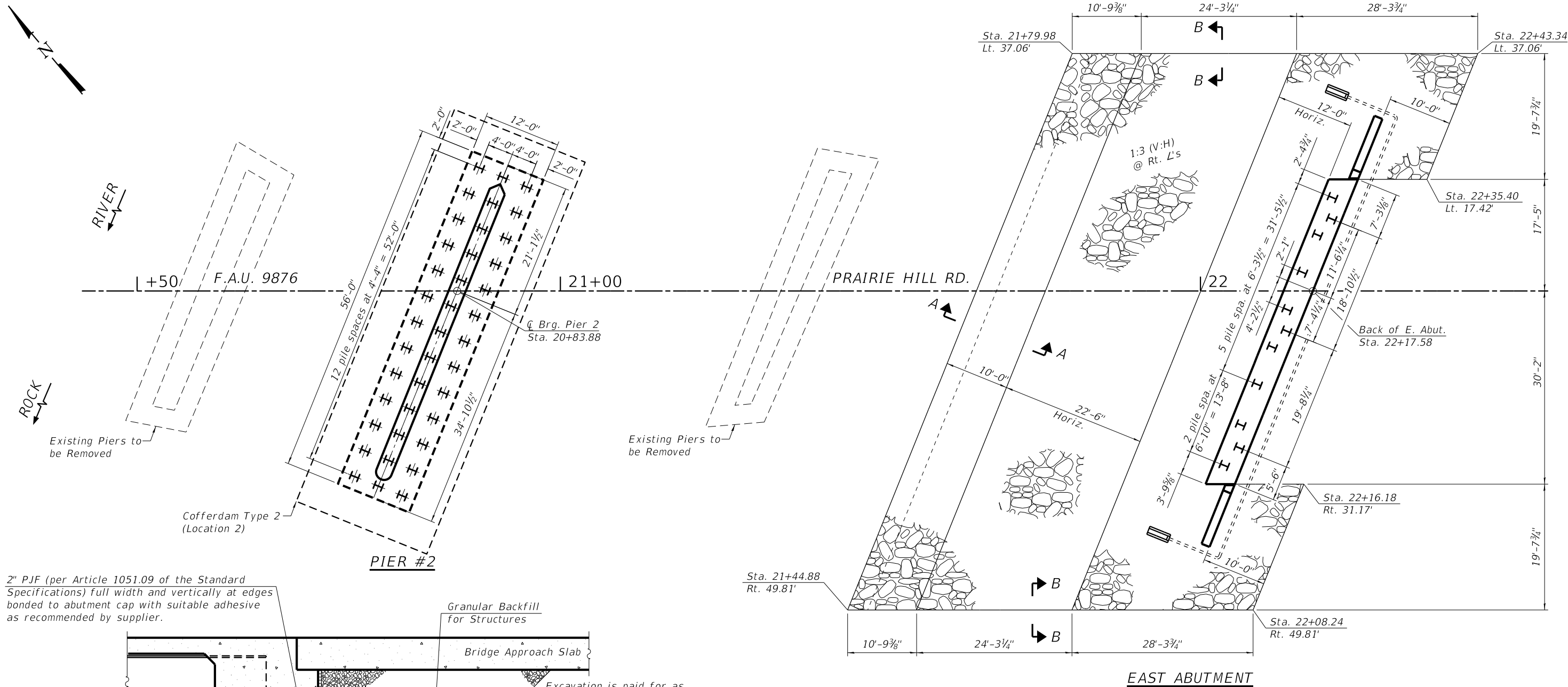
RIPRAP AND PILE LAYOUT
STRUCTURE NO. 101-0220
STRUCTURAL SHEET NO. 3 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	23
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

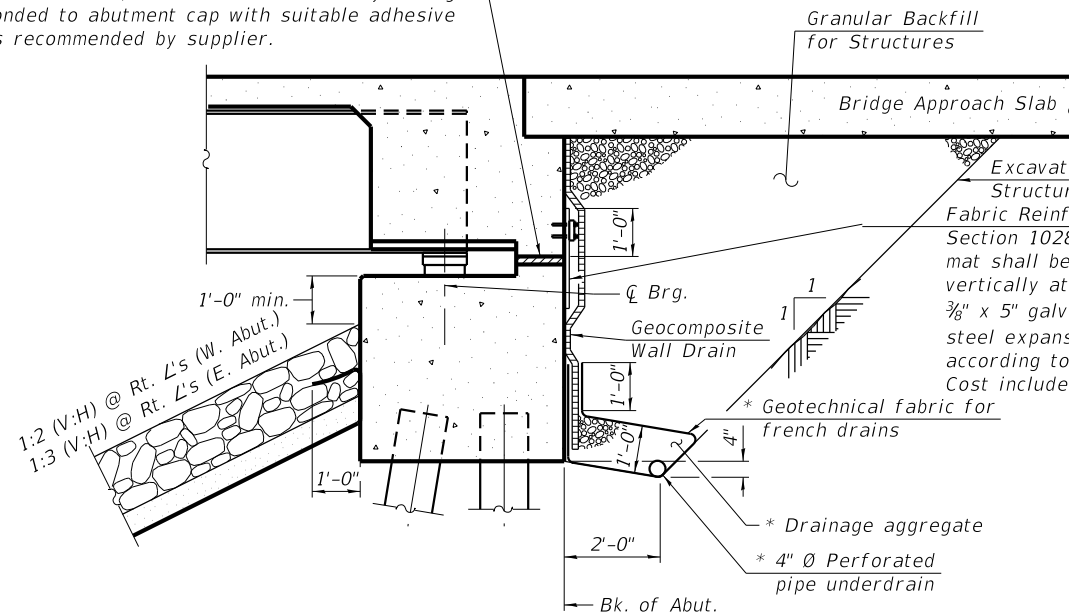
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2" PJF (per Article 1051.09 of the Standard Specifications) full width and vertically at edges bonded to abutment cap with suitable adhesive as recommended by supplier.



SECTION THRU SEMI-INTEGRAL ABUTMENT
(Horiz. dim. at Rt. Z's)

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

Excavation is paid for as Structure Excavation
Fabric Reinforced Elastomeric Mat according to Section 1028 of the Standard Specifications. Fabric mat shall be 24" wide and attached full width and vertically at edges to the abutment cap with a 3/8" x 5" galvanized steel plate and 1/2" O stainless steel expansion bolts with nuts and washers at 12" according to article 1006.29(d) of the Standard Specification. Cost included with Concrete Superstructure.

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

BILL OF MATERIAL		
Item	Unit	Quantity
Stone Riprap, Class A5 (Special)	Sq. Yd.	1,212
Pipe Underdrains for Structures (Special) 4"	Foot	218

REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	EEL
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLETT HOFMANN
& ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

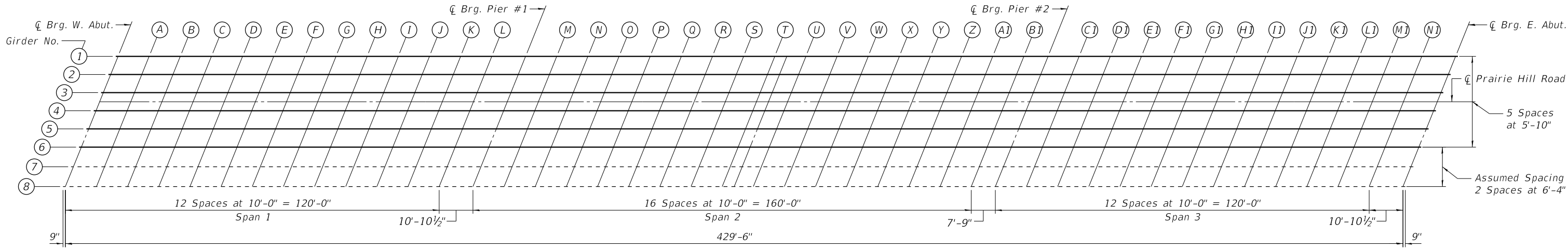
RIPRAP AND PILE LAYOUT
STRUCTURE NO. 101-0220

STRUCTURAL SHEET NO. 4 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	24
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

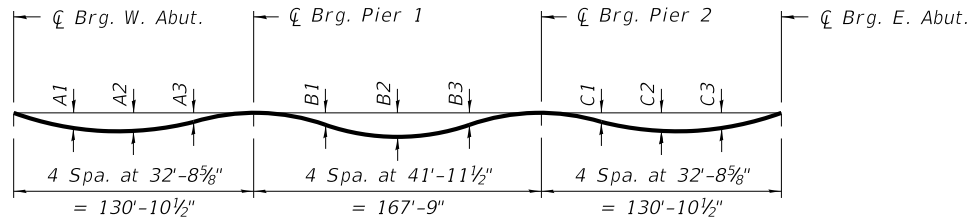
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PLAN

(Girder Beams 7 and 8 will not be built under this contract)



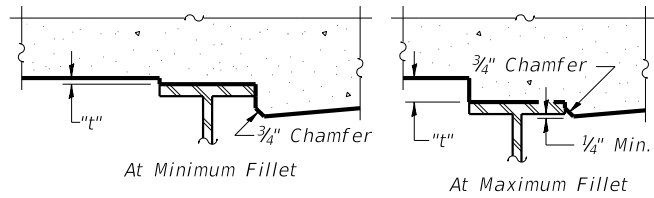
DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:

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

	A1	A2	A3	B1	B2	B3	C1	C2	C3
Interior Girder	1 3/4"	2"	7/8"	1 1/8"	2 1/8"	1 1/8"	7/8"	2"	1 3/4"
Exterior Girder	1 3/4"	1 7/8"	3/4"	1"	1 7/8"	1"	3/4"	1 7/8"	1 3/4"



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

The slab is to be ground after curing to achieve smoothness, but the slab is not to be ground to elevations below the "Theoretical Grade Elevations" shown below. For grinding the deck, see Special Provisions.

FILLET HEIGHTS

REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	EEL
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLETT HOFMANN
& ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

TOP OF SLAB ELEVATIONS LAYOUT
STRUCTURE NO. 101-0220

STRUCTURAL SHEET NO. 5 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	25
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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EDGE OF ROADWAY/FACE OF PARAPET NORTH					GIRDER 1					GIRDER 2					GIRDER 3				
Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. of Abut	17+88.88	-16.00	743.03	743.05	Bk. of Abut	17+88.31	-14.58	743.07	743.09	Bk. of Abut	17+85.95	-8.75	743.21	743.23	Bk. of Abut	17+83.60	-2.92	743.35	743.37
C Brg.	17+91.71	-16.00	742.97	742.99	C Brg.	17+91.14	-14.58	743.01	743.03	C Brg.	17+88.79	-8.75	743.16	743.18	C Brg.	17+86.43	-2.92	743.29	743.31
A	18+01.71	-16.00	742.77	742.84	A	18+01.14	-14.58	742.81	742.88	A	17+98.79	-8.75	742.96	743.03	A	17+96.43	-2.92	743.09	743.16
B	18+11.71	-16.00	742.58	742.69	B	18+11.14	-14.58	742.62	742.73	B	18+08.79	-8.75	742.76	742.88	B	18+06.43	-2.92	742.90	743.01
C	18+21.71	-16.00	742.38	742.53	C	18+21.14	-14.58	742.42	742.57	C	18+18.79	-8.75	742.57	742.72	C	18+16.43	-2.92	742.70	742.85
D	18+31.71	-16.00	742.20	742.37	D	18+31.14	-14.58	742.24	742.40	D	18+28.79	-8.75	742.38	742.55	D	18+26.43	-2.92	742.51	742.68
E	18+41.71	-16.00	742.01	742.19	E	18+41.14	-14.58	742.05	742.23	E	18+38.79	-8.75	742.19	742.37	E	18+36.43	-2.92	742.32	742.50
F	18+51.71	-16.00	741.83	742.00	F	18+51.14	-14.58	741.87	742.04	F	18+48.79	-8.75	742.01	742.18	F	18+46.43	-2.92	742.14	742.32
G	18+61.71	-16.00	741.65	741.81	G	18+61.14	-14.58	741.69	741.84	G	18+58.79	-8.75	741.83	741.99	G	18+56.43	-2.92	741.96	742.12
H	18+71.71	-16.00	741.47	741.61	H	18+71.14	-14.58	741.51	741.64	H	18+68.79	-8.75	741.65	741.79	H	18+66.43	-2.92	741.78	741.92
I	18+81.71	-16.00	741.30	741.40	I	18+81.14	-14.58	741.34	741.44	I	18+78.79	-8.75	741.48	741.58	I	18+76.43	-2.92	741.61	741.71
J	18+91.71	-16.00	741.13	741.21	J	18+91.14	-14.58	741.16	741.24	J	18+88.79	-8.75	741.31	741.38	J	18+86.43	-2.92	741.43	741.51
K	19+01.71	-16.00	740.96	741.01	K	19+01.14	-14.58	741.00	741.05	K	18+98.79	-8.75	741.14	741.19	K	18+96.43	-2.92	741.26	741.32
L	19+11.71	-16.00	740.79	740.83	L	19+11.14	-14.58	740.83	740.86	L	19+08.79	-8.75	740.97	741.00	L	19+06.43	-2.92	741.10	741.13
C Pier	19+22.59	-16.00	740.62	740.64	C Pier	19+22.02	-14.58	740.66	740.68	C Pier	19+19.66	-8.75	740.80	740.82	C Pier	19+17.30	-2.92	740.92	740.94
M	19+32.59	-16.00	740.46	740.49	M	19+32.02	-14.58	740.50	740.53	M	19+29.66	-8.75	740.64	740.66	M	19+27.30	-2.92	740.76	740.79
N	19+42.59	-16.00	740.31	740.35	N	19+42.02	-14.58	740.34	740.39	N	19+39.66	-8.75	740.48	740.52	N	19+37.30	-2.92	740.60	740.65
O	19+52.59	-16.00	740.15	740.22	O	19+52.02	-14.58	740.19	740.25	O	19+49.66	-8.75	740.33	740.39	O	19+47.30	-2.92	740.45	740.52
P	19+62.59	-16.00	740.01	740.10	P	19+62.02	-14.58	740.04	740.13	P	19+59.66	-8.75	740.18	740.27	P	19+57.30	-2.92	740.30	740.39
Q	19+72.59	-16.00	739.86	739.98	Q	19+72.02	-14.58	739.90	740.01	Q	19+69.66	-8.75	740.03	740.15	Q	19+67.30	-2.92	740.15	740.27
R	19+82.59	-16.00	739.72	739.86	R	19+82.02	-14.58	739.75	739.89	R	19+79.66	-8.75	739.89	740.03	R	19+77.30	-2.92	740.01	740.15
S	19+92.59	-16.00	739.58	739.74	S	19+92.02	-14.58	739.61	739.77	S	19+89.66	-8.75	739.75	739.91	S	19+87.30	-2.92	739.87	740.03
T	20+02.59	-16.00	739.44	739.61	T	20+02.02	-14.58	739.48	739.64	T	19+99.66	-8.75	739.61	739.78	T	19+97.30	-2.92	739.73	739.90
U	20+12.59	-16.00	739.31	739.47	U	20+12.02	-14.58	739.34	739.51	U	20+09.66	-8.75	739.47	739.64	U	20+07.30	-2.92	739.59	739.76
V	20+22.59	-16.00	739.18	739.33	V	20+22.02	-14.58	739.21	739.36	V	20+19.66	-8.75	739.34	739.50	V	20+17.30	-2.92	739.46	739.62
W	20+32.59	-16.00	739.05	739.18	W	20+32.02	-14.58	739.08	739.22	W	20+29.66	-8.75	739.21	739.35	W	20+27.30	-2.92	739.33	739.47
X	20+42.59	-16.00	738.92	739.03	X	20+42.02	-14.58	738.96	739.07	X	20+39.66	-8.75	739.09	739.20	X	20+37.30	-2.92	739.20	739.32
Y	20+52.59	-16.00	738.80	738.89	Y	20+52.02	-14.58	738.84	738.92	Y	20+49.66	-8.75	738.97	739.05	Y	20+47.30	-2.92	739.08	739.17
Z	20+62.59	-16.00	738.68	738.74	Z	20+62.02	-14.58	738.72	738.78	Z	20+59.66	-8.75	738.85	738.91	Z	20+57.30	-2.92	738.96	739.02
A1	20+72.59	-16.00	738.57	738.61	A1	20+72.02	-14.58	738.60	738.64	A1	20+69.66	-8.75	738.73	738.77	A1	20+67.30	-2.92	738.84	738.88
B1	20+82.59	-16.00	738.46	738.48	B1	20+82.02	-14.58	738.49	738.51	B1	20+79.66	-8.75	738.62	738.64	B1	20+77.30	-2.92	738.73	738.75
C Pier	20+90.34	-16.00	738.37	738.39	C Pier	20+89.77	-14.58	738.40	738.43	C Pier	20+87.41	-8.75	738.53	738.55	C Pier	20+85.05	-2.92	738.64	738.66
C1	21+00.34	-16.00	738.26	738.29	C1	20+99.77	-14.58	738.30	738.33	C1	20+97.41	-8.75	738.42	738.45	C1	20+95.05	-2.92	738.54	738.57
D1	21+10.34	-16.00	738.16	738.21	D1	21+09.77	-14.58	738.19	738.24	D1	21+07.41	-8.75	738.32	738.37	D1	21+05.05	-2.92	738.43	738.48
E1	21+20.34	-16.00	738.06	738.13	E1	21+19.77	-14.58	738.09	738.17	E1	21+17.41	-8.75	738.22	738.29	E1	21+15.05	-2.92	738.33	738.40
F1	21+30.34	-16.00	737.96	738.06	F1	21+29.77	-14.58	737.99	738.10	F1	21+27.41	-8.75	738.12	738.22	F1	21+25.05	-2.92	738.23	738.33
G1	21+40.34	-16.00	737.87	738.00	G1	21+39.77	-14.58	737.90	738.03	G1	21+37.41	-8.75	738.02	738.16	G1	21+35.05	-2.92	738.13	738.26
H1	21+50.34	-16.00	737.77	737.93	H1	21+49.77	-14.58	737.81	737.96	H1	21+47.41	-8.75	737.93	738.09	H1	21+45.05	-2.92	738.04	738.20
I1	21+60.34	-16.00	737.68	737.86	I1	21+59.77	-14.58	737.72	737.89	I1	21+57.41	-8.75	737.84	738.01	I1	21+55.05	-2.92	737.95	738.12
J1	21+70.34	-16.00	737.60	737.78	J1	21+69.77	-14.58	737.63	737.81	J1	21+67.41	-8.75	737.75	737.93	J1	21+65.05	-2.92	737.86	738.04
K1	21+80.34	-16.00	737.52	737.69	K1	21+79.77	-14.58	737.55	737.72	K1	21+77.41	-8.75	737.67	737.84	K1	21+75.05	-2.92	737.78	737.95
L1	21+90.34	-16.00	737.44	737.59	L1	21+89.77	-14.58	737.47	737.62	L1	21+87.41	-8.75	737.59	737.74	L1	21+85.05	-2.92	737.69	737.84
M1	22+00.34	-16.00	737.36	737.48	M1	21+99.77	-14.58	737.39	737.51	M1	21+97.41	-8.75	737.51	737.63	M1	21+95.05	-2.92	737.62	737.73
N1	22+10.34	-16.00	737.29	737.36	N1	22+09.77	-14.58	737.32	737.39	N1	22+07.41	-8.75	737.44	737.51	N1	22+05.05	-2.92	737.54	737.62
C Brg.	22+21.21	-16.00	737.21	737.23	C Brg.	22+20.64	-14.58	737.24	737.26	C Brg.	22+18.29	-8.75	737.36	737.38	C Brg.	22+15.93	-2.92	737.46	737.48
Bk. of Abut	22+24.05	-16.00	737.19	737.21	Bk. of Abut	22+23.47	-14.58	737.22	737.24	Bk. of Abut	22+21.12	-8.75	737.34	737.36	Bk. of Abut	22+18.76	-2.92	737.44	737.46

*Prior to grinding

REVISION	DATE	BY	REMARKS	DESIGNED	ATK	WINNEBAGO COUNTY PRAIRIE HILL ROAD OVER ROCK RIVER STATION 20+00	 WILLET HOFMANN & ASSOCIATES INC. ENGINEERING ARCHITECTURE LAND SURVEYING 809 EAST 2ND STREET, DIXON, IL 61021-0367 T: 815-284-3351 DESIGN FIRM: #184-000918	TOP OF SLAB ELEVATIONS STRUCTURE NO. 101-0220				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				DRAWN	DAL							9876	18-00655-00-BR	WINNEBAGO	89	26
				REVIEWED	EEL							WHA# 1570D23		CONTRACT NO. 8576		
				APPROVED	MRL			STRUCTURAL SHEET NO. 6 OF 48 SHEETS				ILLINOIS FED. AID PROJECT				

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P.G.L./CROWN					GIRDER 4					GIRDER 5					GIRDER 6				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. of Abut	17+82.42	0.00	743.42	743.44	Bk. of Abut	17+81.24	2.92	743.40	743.42	Bk. of Abut	17+78.88	8.75	743.36	743.38	Bk. of Abut	17+76.53	14.58	743.30	743.33
C Brg.	17+85.25	0.00	743.36	743.38	C Brg.	17+84.07	2.92	743.34	743.36	C Brg.	17+81.71	8.75	743.30	743.32	C Brg.	17+79.36	14.58	743.25	743.27
A	17+95.25	0.00	743.16	743.23	A	17+94.07	2.92	743.14	743.21	A	17+91.71	8.75	743.10	743.17	A	17+89.36	14.58	743.05	743.11
B	18+05.25	0.00	742.96	743.08	B	18+04.07	2.92	742.94	743.06	B	18+01.71	8.75	742.90	743.01	B	17+99.36	14.58	742.85	742.96
C	18+15.25	0.00	742.77	742.92	C	18+14.07	2.92	742.75	742.90	C	18+11.71	8.75	742.71	742.85	C	18+09.36	14.58	742.65	742.80
D	18+25.25	0.00	742.58	742.75	D	18+24.07	2.92	742.56	742.73	D	18+21.71	8.75	742.51	742.68	D	18+19.36	14.58	742.46	742.63
E	18+35.25	0.00	742.39	742.57	E	18+34.07	2.92	742.37	742.55	E	18+31.71	8.75	742.32	742.50	E	18+29.36	14.58	742.27	742.44
F	18+45.25	0.00	742.21	742.38	F	18+44.07	2.92	742.18	742.36	F	18+41.71	8.75	742.14	742.31	F	18+39.36	14.58	742.08	742.25
G	18+55.25	0.00	742.02	742.18	G	18+54.07	2.92	742.00	742.16	G	18+51.71	8.75	741.96	742.12	G	18+49.36	14.58	741.90	742.06
H	18+65.25	0.00	741.84	741.98	H	18+64.07	2.92	741.82	741.96	H	18+61.71	8.75	741.78	741.91	H	18+59.36	14.58	741.72	741.85
I	18+75.25	0.00	741.67	741.78	I	18+74.07	2.92	741.65	741.75	I	18+71.71	8.75	741.60	741.71	I	18+69.36	14.58	741.54	741.65
J	18+85.25	0.00	741.50	741.58	J	18+84.07	2.92	741.47	741.55	J	18+81.71	8.75	741.43	741.50	J	18+79.36	14.58	741.37	741.44
K	18+95.25	0.00	741.33	741.38	K	18+94.07	2.92	741.30	741.36	K	18+91.71	8.75	741.26	741.31	K	18+89.36	14.58	741.20	741.25
L	19+05.25	0.00	741.16	741.19	L	19+04.07	2.92	741.14	741.17	L	19+01.71	8.75	741.09	741.12	L	18+99.36	14.58	741.03	741.06
C Pier	19+16.13	0.00	740.98	741.00	C Pier	19+14.95	2.92	740.96	740.98	C Pier	19+12.59	8.75	740.91	740.93	C Pier	19+10.23	14.58	740.85	740.87
M	19+26.13	0.00	740.82	740.85	M	19+24.95	2.92	740.80	740.82	M	19+22.59	8.75	740.75	740.77	M	19+20.23	14.58	740.69	740.71
N	19+36.13	0.00	740.67	740.71	N	19+34.95	2.92	740.64	740.68	N	19+32.59	8.75	740.59	740.63	N	19+30.23	14.58	740.53	740.57
O	19+46.13	0.00	740.51	740.58	O	19+44.95	2.92	740.49	740.55	O	19+42.59	8.75	740.44	740.50	O	19+40.23	14.58	740.37	740.43
P	19+56.13	0.00	740.36	740.45	P	19+54.95	2.92	740.34	740.43	P	19+52.59	8.75	740.28	740.37	P	19+50.23	14.58	740.22	740.31
Q	19+66.13	0.00	740.21	740.33	Q	19+64.95	2.92	740.19	740.30	Q	19+62.59	8.75	740.13	740.25	Q	19+60.23	14.58	740.07	740.18
R	19+76.13	0.00	740.07	740.21	R	19+74.95	2.92	740.04	740.18	R	19+72.59	8.75	739.99	740.13	R	19+70.23	14.58	739.92	740.06
S	19+86.13	0.00	739.93	740.09	S	19+84.95	2.92	739.90	740.06	S	19+82.59	8.75	739.85	740.00	S	19+80.23	14.58	739.78	739.93
T	19+96.13	0.00	739.79	739.96	T	19+94.95	2.92	739.76	739.93	T	19+92.59	8.75	739.71	739.87	T	19+90.23	14.58	739.64	739.80
U	20+06.13	0.00	739.65	739.82	U	20+04.95	2.92	739.62	739.79	U	20+02.59	8.75	739.57	739.74	U	20+00.23	14.58	739.50	739.66
V	20+16.13	0.00	739.52	739.68	V	20+14.95	2.92	739.49	739.65	V	20+12.59	8.75	739.43	739.59	V	20+10.23	14.58	739.37	739.52
W	20+26.13	0.00	739.39	739.53	W	20+24.95	2.92	739.36	739.50	W	20+22.59	8.75	739.30	739.44	W	20+20.23	14.58	739.23	739.37
X	20+36.13	0.00	739.26	739.37	X	20+34.95	2.92	739.23	739.35	X	20+32.59	8.75	739.18	739.29	X	20+30.23	14.58	739.11	739.21
Y	20+46.13	0.00	739.14	739.22	Y	20+44.95	2.92	739.11	739.19	Y	20+42.59	8.75	739.05	739.14	Y	20+40.23	14.58	738.98	739.06
Z	20+56.13	0.00	739.02	739.08	Z	20+54.95	2.92	738.99	739.05	Z	20+52.59	8.75	738.93	738.99	Z	20+50.23	14.58	738.86	738.92
A1	20+66.13	0.00	738.90	738.94	A1	20+64.95	2.92	738.87	738.91	A1	20+62.59	8.75	738.81	738.85	A1	20+60.23	14.58	738.74	738.78
B1	20+76.13	0.00	738.79	738.81	B1	20+74.95	2.92	738.76	738.78	B1	20+72.59	8.75	738.70	738.72	B1	20+70.23	14.58	738.62	738.65
C Pier	20+83.88	0.00	738.70	738.72	C Pier	20+82.70	2.92	738.67	738.69	C Pier	20+80.34	8.75	738.61	738.63	C Pier	20+77.98	14.58	738.53	738.56
C1	20+93.88	0.00	738.59	738.62	C1	20+92.70	2.92	738.56	738.59	C1	20+90.34	8.75	738.50	738.53	C1	20+87.98	14.58	738.42	738.45
D1	21+03.88	0.00	738.49	738.54	D1	21+02.70	2.92	738.45	738.50	D1	21+00.34	8.75	738.39	738.44	D1	20+97.98	14.58	738.32	738.37
E1	21+13.88	0.00	738.38	738.46	E1	21+12.70	2.92	738.35	738.43	E1	21+10.34	8.75	738.29	738.36	E1	21+07.98	14.58	738.21	738.29
F1	21+23.88	0.00	738.28	738.39	F1	21+22.70	2.92	738.25	738.36	F1	21+20.34	8.75	738.19	738.29	F1	21+17.98	14.58	738.11	738.21
G1	21+33.88	0.00	738.19	738.32	G1	21+32.70	2.92	738.15	738.29	G1	21+30.34	8.75	738.09	738.22	G1	21+27.98	14.58	738.01	738.14
H1	21+43.88	0.00	738.09	738.25	H1	21+42.70	2.92	738.06	738.22	H1	21+40.34	8.75	737.99	738.15	H1	21+37.98	14.58	737.92	738.07
I1	21+53.88	0.00	738.00	738.18	I1	21+52.70	2.92	737.97	738.14	I1	21+50.34	8.75	737.90	738.08	I1	21+47.98	14.58	737.82	737.99
J1	21+63.88	0.00	737.91	738.09	J1	21+62.70	2.92	737.88	738.06	J1	21+60.34	8.75	737.81	737.99	J1	21+57.98	14.58	737.73	737.91
K1	21+73.88	0.00	737.83	738.00	K1	21+72.70	2.92	737.80	737.97	K1	21+70.34	8.75	737.73	737.90	K1	21+67.98	14.58	737.65	737.82
L1	21+83.88	0.00	737.75	737.90	L1	21+82.70	2.92	737.71	737.86	L1	21+80.34	8.75	737.65	737.80	L1	21+77.98	14.58	737.56	737.71
M1	21+93.88	0.00	737.67	737.79	M1	21+92.70	2.92	737.63	737.75	M1	21+90.34	8.75	737.57	737.68	M1	21+89.98	14.58	737.48	737.60
N1	22+03.88	0.00	737.59	737.67	N1	22+02.70	2.92	737.56	737.63	N1	22+00.34	8.75	737.49	737.56	N1	21+97.98	14.58	737.41	737.48
C Brg.	22+14.75	0.00	737.52	737.54	C Brg.	22+13.57	2.92	737.48	737.50	C Brg.	22+11.21	8.75	737.41	737.43	C Brg.	22+08.86	14.58	737.33	737.35
Bk. of Abut	22+17.58	0.00	737.50	737.52	Bk. of Abut	22+16.40	2.92	737.46	737.48	Bk. of Abut	22+14.05	8.75	737.39	737.41	Bk. of Abut	22+11.69	14.58	737.31	737.33

*Prior to grinding

EDGE OF ROADWAY/FACE OF PARAPET SOUTH

Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. of Abut	17+75.95	16.00	743.29	743.31
℄ Brg.	17+78.79	16.00	743.23	743.25
A	17+88.79	16.00	743.03	743.10
B	17+98.79	16.00	742.83	742.94
C	18+08.79	16.00	742.63	742.78
D	18+18.79	16.00	742.44	742.61
E	18+28.79	16.00	742.25	742.43
F	18+38.79	16.00	742.06	742.24
G	18+48.79	16.00	741.88	742.04
H	18+58.79	16.00	741.70	741.84
I	18+68.79	16.00	741.52	741.63
J	18+78.79	16.00	741.35	741.43
K	18+88.79	16.00	741.18	741.23
L	18+98.79	16.00	741.01	741.04
℄ Pier	19+09.66	16.00	740.83	740.85
M	19+19.66	16.00	740.67	740.69
N	19+29.66	16.00	740.51	740.55
O	19+39.66	16.00	740.35	740.42
P	19+49.66	16.00	740.20	740.29
Q	19+59.66	16.00	740.05	740.17
R	19+69.66	16.00	739.90	740.04
S	19+79.66	16.00	739.76	739.92
T	19+89.66	16.00	739.62	739.79
U	19+99.66	16.00	739.48	739.65
V	20+09.66	16.00	739.34	739.50
W	20+19.66	16.00	739.21	739.35
X	20+29.66	16.00	739.08	739.20
Y	20+39.66	16.00	738.96	739.04
Z	20+49.66	16.00	738.84	738.90
A1	20+59.66	16.00	738.72	738.76
B1	20+69.66	16.00	738.60	738.63
℄ Pier	20+77.41	16.00	738.51	738.53
C1	20+87.41	16.00	738.40	738.43
D1	20+97.41	16.00	738.29	738.34
E1	21+07.41	16.00	738.19	738.27
F1	21+17.41	16.00	738.09	738.19
G1	21+27.41	16.00	737.99	738.12
H1	21+37.41	16.00	737.89	738.05
I1	21+47.41	16.00	737.80	737.97
J1	21+57.41	16.00	737.71	737.89
K1	21+67.41	16.00	737.62	737.80
L1	21+77.41	16.00	737.54	737.69
M1	21+87.41	16.00	737.46	737.58
N1	21+97.41	16.00	737.38	737.46
℄ Brg.	22+08.29	16.00	737.30	737.32
Bk. of Abut	22+11.12	16.00	737.28	737.30

*Prior to grinding

REVISION	DATE	BY	REMARKS	DESIGNED	ATK
				DRAWN	DAL
				REVIEWED	EEL
				APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

WILLETT HOFMANN
& ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 101-0220

STRUCTURAL SHEET NO. 8 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	28
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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NORTH EDGE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
W. End Approach Pavement	17+59.96	-16.00	743.62	743.64
A	17+69.96	-16.00	743.41	743.43
B	17+79.96	-16.00	743.21	743.23
E. End Approach Pavement	17+89.96	-16.00	743.00	743.03

NORTH EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
W. End Approach Pavement	17+58.35	-12.00	743.73	743.75
A	17+68.35	-12.00	743.52	743.55
B	17+78.35	-12.00	743.32	743.34
E. End Approach Pavement	17+88.35	-12.00	743.12	743.14

P.G.L./CROWN

Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
W. End Approach Pavement	17+53.50	0.00	744.01	744.04
A	17+63.50	0.00	743.80	743.83
B	17+73.50	0.00	743.60	743.62
E. End Approach Pavement	17+83.50	0.00	743.39	743.42

SOUTH EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
W. End Approach Pavement	17+48.65	12.00	743.94	743.96
A	17+58.65	12.00	743.73	743.75
B	17+68.65	12.00	743.52	743.54
E. End Approach Pavement	17+78.65	12.00	743.31	743.33

SOUTH EDGE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
W. End Approach Pavement	17+47.03	16.00	743.89	743.91
A	17+57.03	16.00	743.68	743.70
B	17+67.03	16.00	743.47	743.49
E. End Approach Pavement	17+77.03	16.00	743.27	743.29

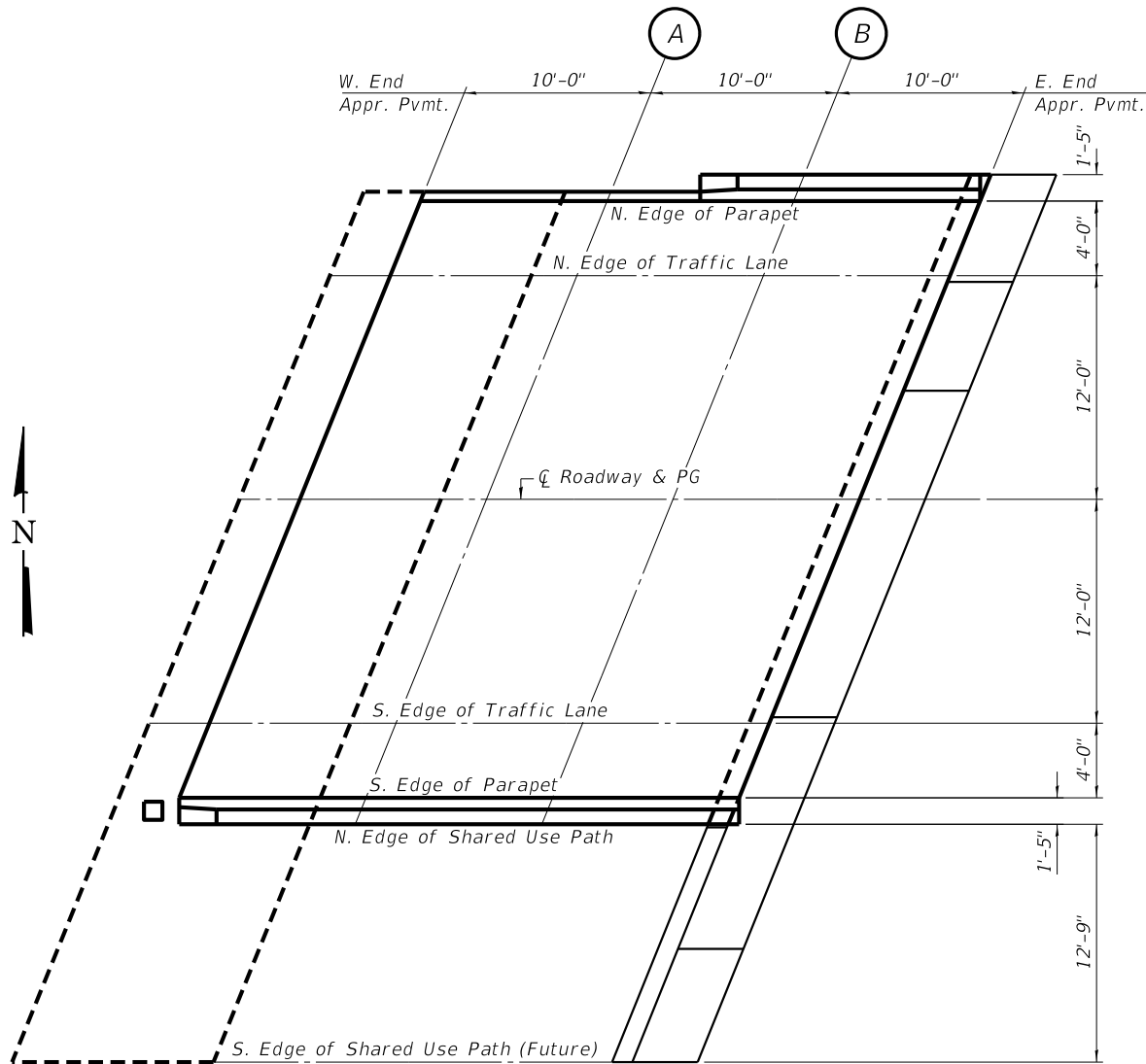
NORTH EDGE OF SHARED USE PATH

Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
W. End Approach Pavement	17+46.46	17.42	743.88	743.90
A	17+56.46	17.42	743.66	743.68
B	17+66.46	17.42	743.45	743.48
E. End Approach Pavement	17+76.46	17.42	743.25	743.27

SOUTH EDGE OF SHARED USE PATH (FUTURE)

Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
W. End Approach Pavement	17+41.31	30.17	743.73	743.75
A	17+51.31	30.17	743.52	743.54
B	17+61.31	30.17	743.31	743.33
E. End Approach Pavement	17+71.31	30.17	743.10	743.12

*Prior to griding



PLAN

REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	EEL
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLETT HOFMANN
& ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 101-0220
STRUCTURAL SHEET NO. 9 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	29
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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NORTH EDGE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
W. End Approach Pavement	22+22.97	-16.00	737.20	737.22
A	22+32.97	-16.00	737.13	737.15
B	22+42.97	-16.00	737.07	737.09
E. End Approach Pavement	22+52.97	-16.00	737.01	737.03

NORTH EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
W. End Approach Pavement	22+21.35	-12.00	737.29	737.31
A	22+31.35	-12.00	737.22	737.24
B	22+41.35	-12.00	737.16	737.18
E. End Approach Pavement	22+51.35	-12.00	737.10	737.12

P.G.L./CROWN

Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
W. End Approach Pavement	22+16.50	0.00	737.50	737.52
A	22+26.50	0.00	737.43	737.46
B	22+36.50	0.00	737.37	737.39
E. End Approach Pavement	22+46.50	0.00	737.31	737.33

SOUTH EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
W. End Approach Pavement	22+11.65	12.00	737.36	737.38
A	22+21.65	12.00	737.29	737.31
B	22+31.65	12.00	737.22	737.24
E. End Approach Pavement	22+41.65	12.00	737.16	737.18

SOUTH EDGE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
W. End Approach Pavement	22+10.04	16.00	737.29	737.31
A	22+20.04	16.00	737.22	737.24
B	22+30.04	16.00	737.15	737.17
E. End Approach Pavement	22+40.04	16.00	737.09	737.11

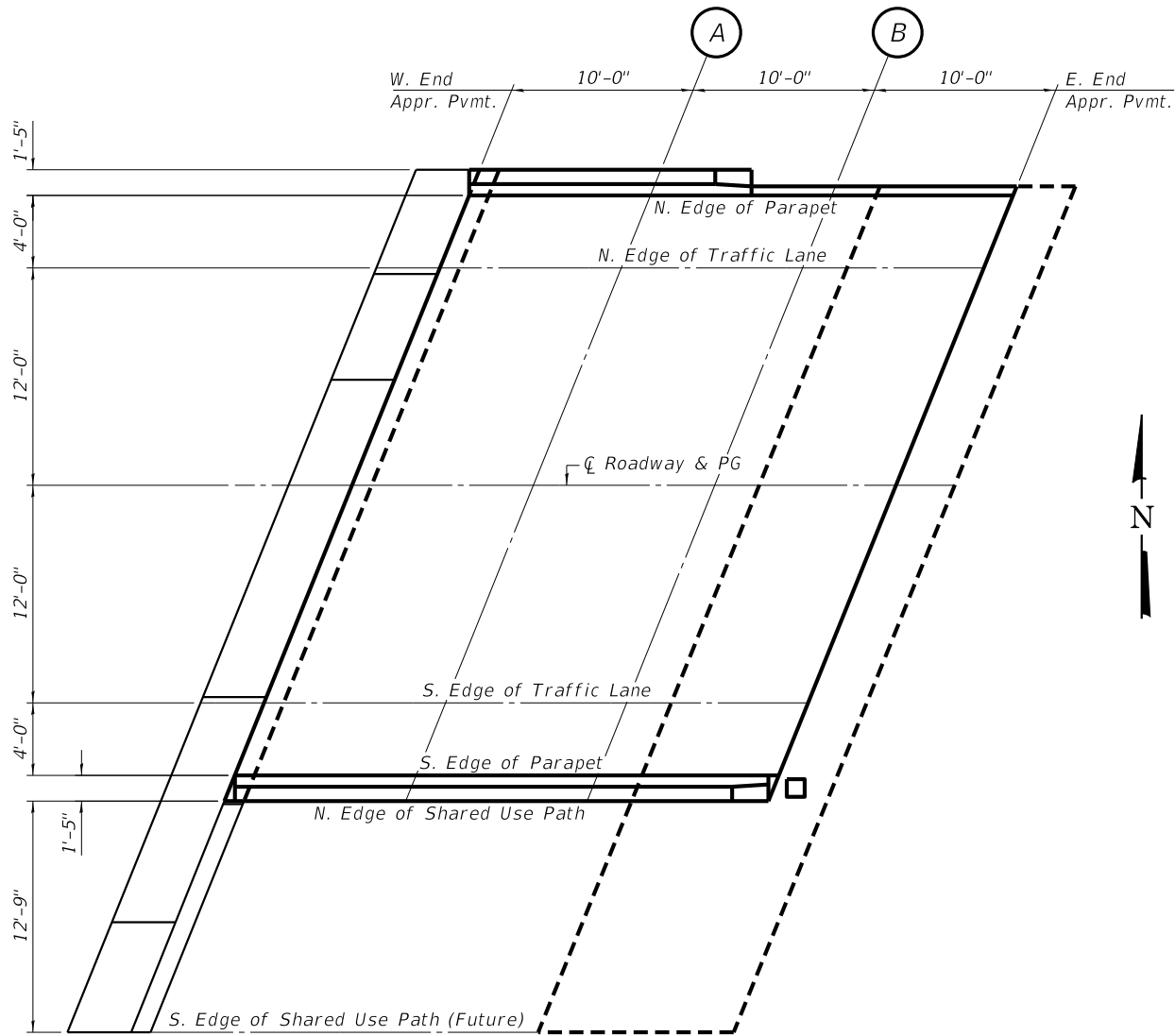
NORTH EDGE OF SHARED USE PATH

Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
W. End Approach Pavement	22+09.47	17.42	737.26	737.29
A	22+19.47	17.42	737.19	737.21
B	22+29.47	17.42	737.13	737.15
E. End Approach Pavement	22+39.47	17.42	737.06	737.08

SOUTH EDGE OF SHARED USE PATH (FUTURE)

Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
W. End Approach Pavement	22+04.31	30.17	737.05	737.07
A	22+14.31	30.17	736.98	737.00
B	22+24.31	30.17	736.91	736.93
E. End Approach Pavement	22+34.31	30.17	736.84	736.86

*Prior to grinding



PLAN

REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	EEL
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLETT HOFMANN
& ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

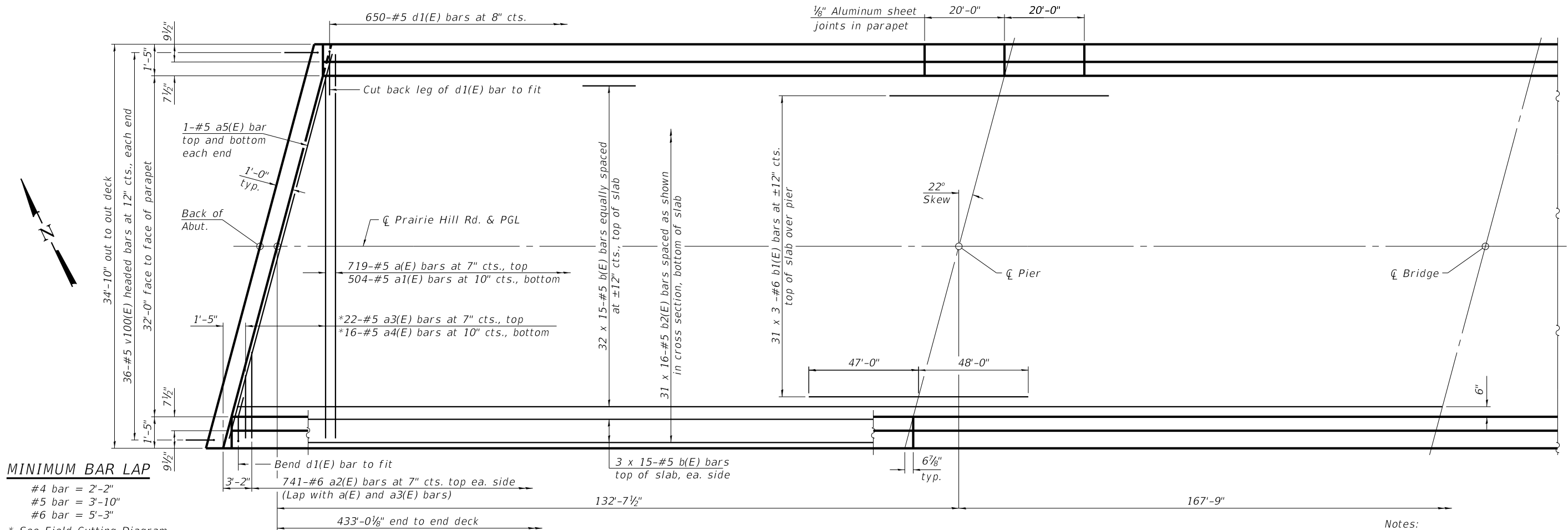
TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 101-0220
STRUCTURAL SHEET NO. 10 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	30
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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MINIMUM BAR LAP

- #4 bar = 2'-2"
- #5 bar = 3'-10"
- #6 bar = 5'-3"

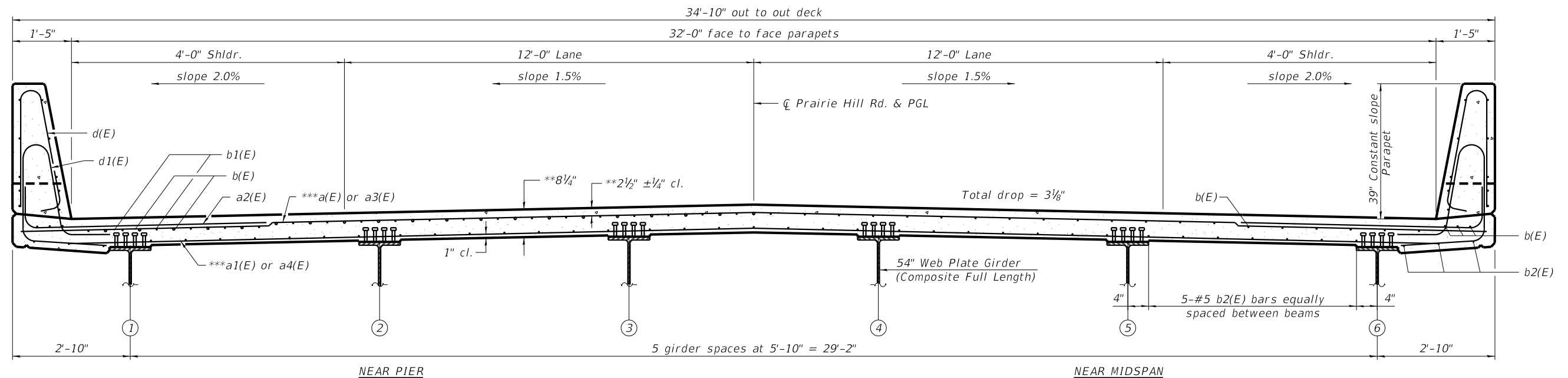
* See Field Cutting Diagram on structural sheet 12.

**Prior to grinding

***Provide Bar Splicers on south face of bridge. Lap splicers with a(E), a1(E), a3(E), and a4(E). See Structural Sheet 36 for additional information.

PARTIAL PLAN

Notes:
See structural sheet 12 for superstructure details and Bill of Material.
Bars indicated thus 32 x 15-#5 etc. indicates 32 lines of bars with 15 lengths per line.
See structural sheet 36 for future shared use path information



CROSS SECTION
(Looking East)

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

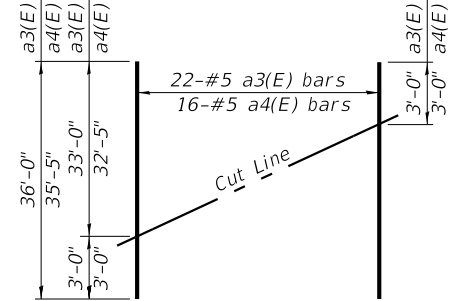
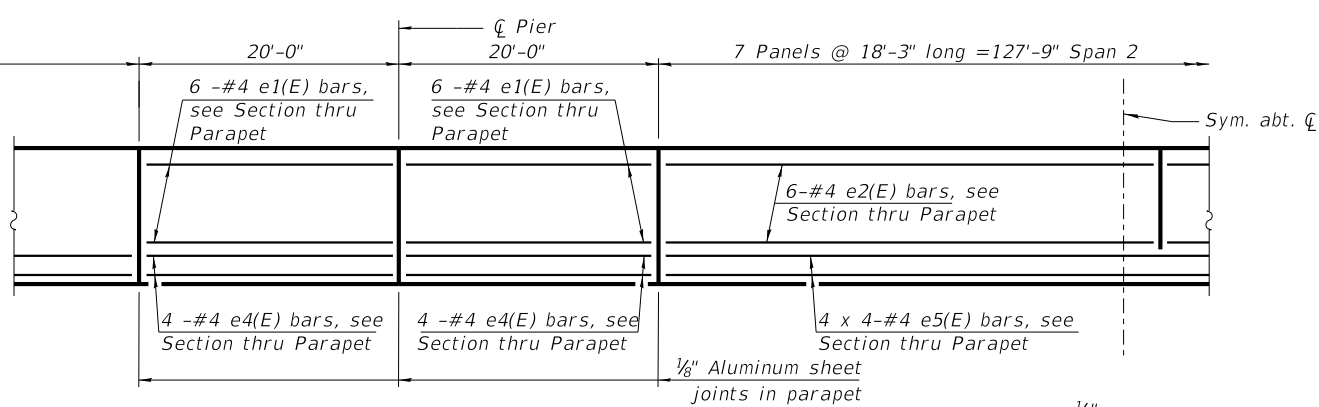
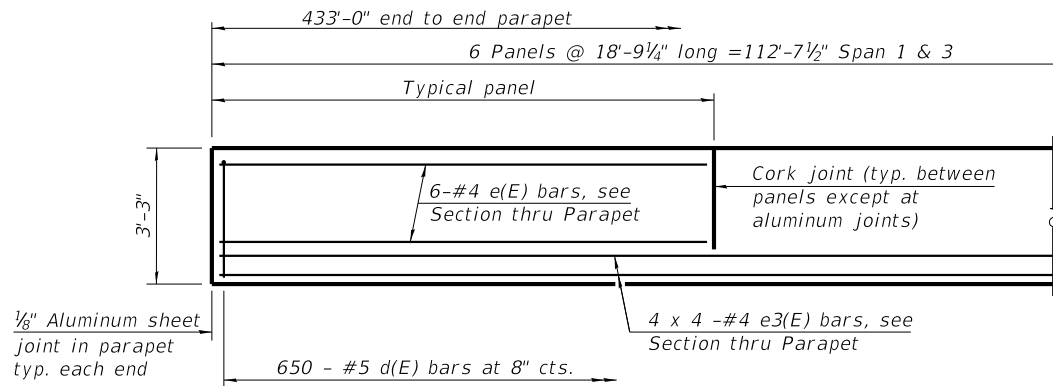


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SUPERSTRUCTURE
STRUCTURE NO. 101-0220

STRUCTURAL SHEET NO. 11 OF 48 SHEETS

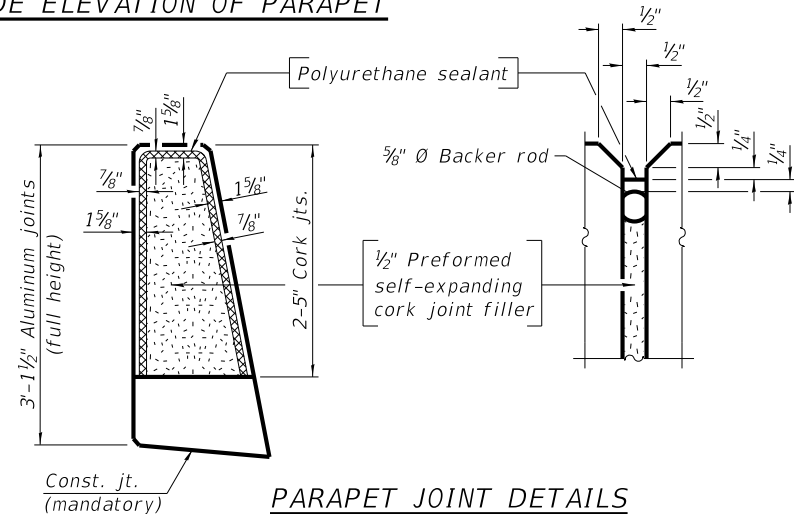
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	31
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				



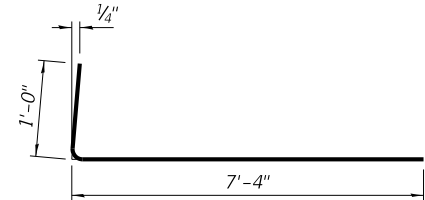
FIELD CUTTING DIAGRAM

Order a3(E) and a4(E) bars full length. Cut as shown and use remainder of bars in opposite end of deck.

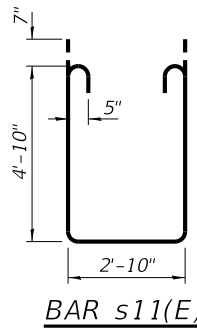
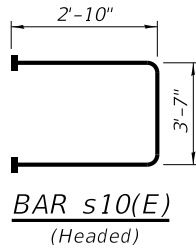
INSIDE ELEVATION OF PARAPET



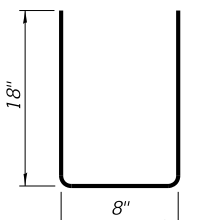
PARAPET JOINT DETAILS



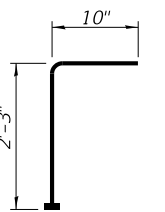
BAR a2(E)



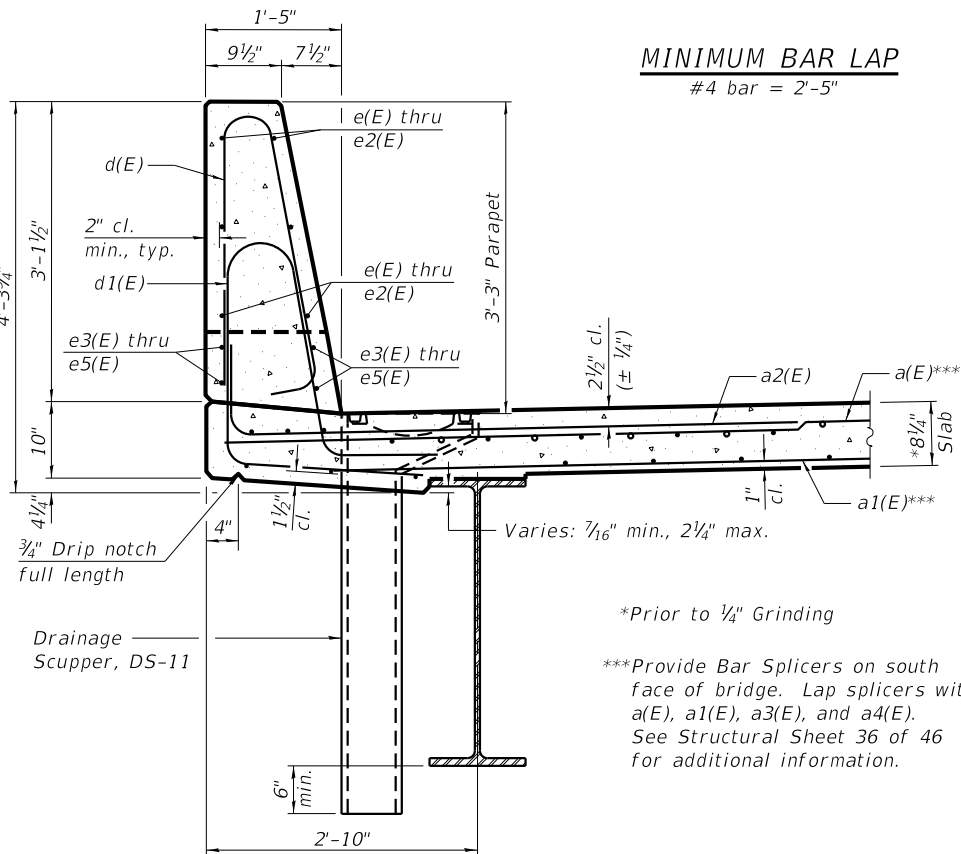
BAR s11(E)



BAR u10(E)



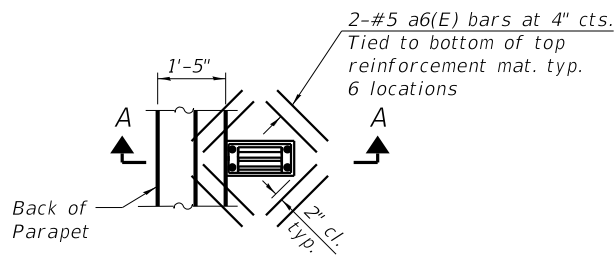
BAR v100(E)
(Headed)



SECTION THRU PARAPET

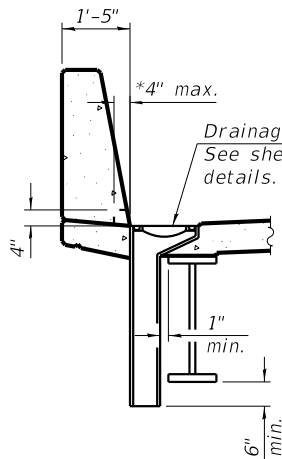
*Prior to 1/4" Grinding

***Provide Bar Splicers on south face of bridge. Lap splicers with a(E), a1(E), a3(E), and a4(E). See Structural Sheet 36 of 46 for additional information.



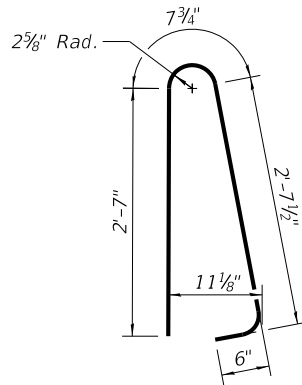
PLAN

Note:
Cut longitudinal reinforcement to clear drainage scuppers.

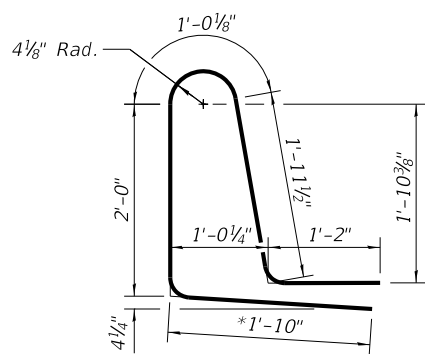


SECTION A-A

*Only permitted at 24" top flange locations



BAR d(E)



BAR d1(E)

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	719	#5	34'-6"	—
a1(E)	504	#5	34'-6"	—
a2(E)	1482	#6	8'-4"	—
a3(E)	22	#5	36'-0"	—
a4(E)	16	#5	35'-5"	—
a5(E)	4	#5	37'-2"	—
a6(E)	96	#5	1'-6"	—
b(E)	570	#5	32'-6"	—
b1(E)	186	#6	35'-3"	—
b2(E)	496	#5	30'-8"	—
d(E)	1300	#5	6'-5"	—
d1(E)	1300	#5	8'-0"	—
e(E)	144	#4	18'-5"	—
e1(E)	48	#4	19'-8"	—
e2(E)	84	#4	17'-11"	—
e3(E)	64	#4	29'-9"	—
e4(E)	32	#4	19'-8"	—
e5(E)	56	#4	33'-6"	—
m10(E)	16	#6	37'-2"	—
m11(E)	20	#6	5'-11"	—
m12(E)	8	#6	2'-8"	—
m13(E)	30	#6	5'-11"	—
m14(E)	12	#6	2'-8"	—
m15(E)	4	#4	37'-2"	—
s10(E)	62	#5	9'-3"	—
s11(E)	62	#5	13'-8"	—
u10(E)	62	#4	3'-8"	—
v100(E)	72	#5	3'-1"	—
Concrete Superstructure		Cu. Yd.	601.8	
Protective Coat		Sq. Yd.	1,935	
Reinforcement Bars, Epoxy Coated		Pound	138,600	
Diamond Grinding (Bridge Section)		Sq. Yd.	1,348	
Bridge Deck Grooving (Longitudinal)		Sq. Yd.	1,155	
Bar Splicers		Each	1,261	
Bar Terminators		Each	252	

Bars indicated thus 4 x 4-#4 etc. indicates 4 line of bars with 4 lengths per line.

REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	EEL
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLET-HOFMANN
ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

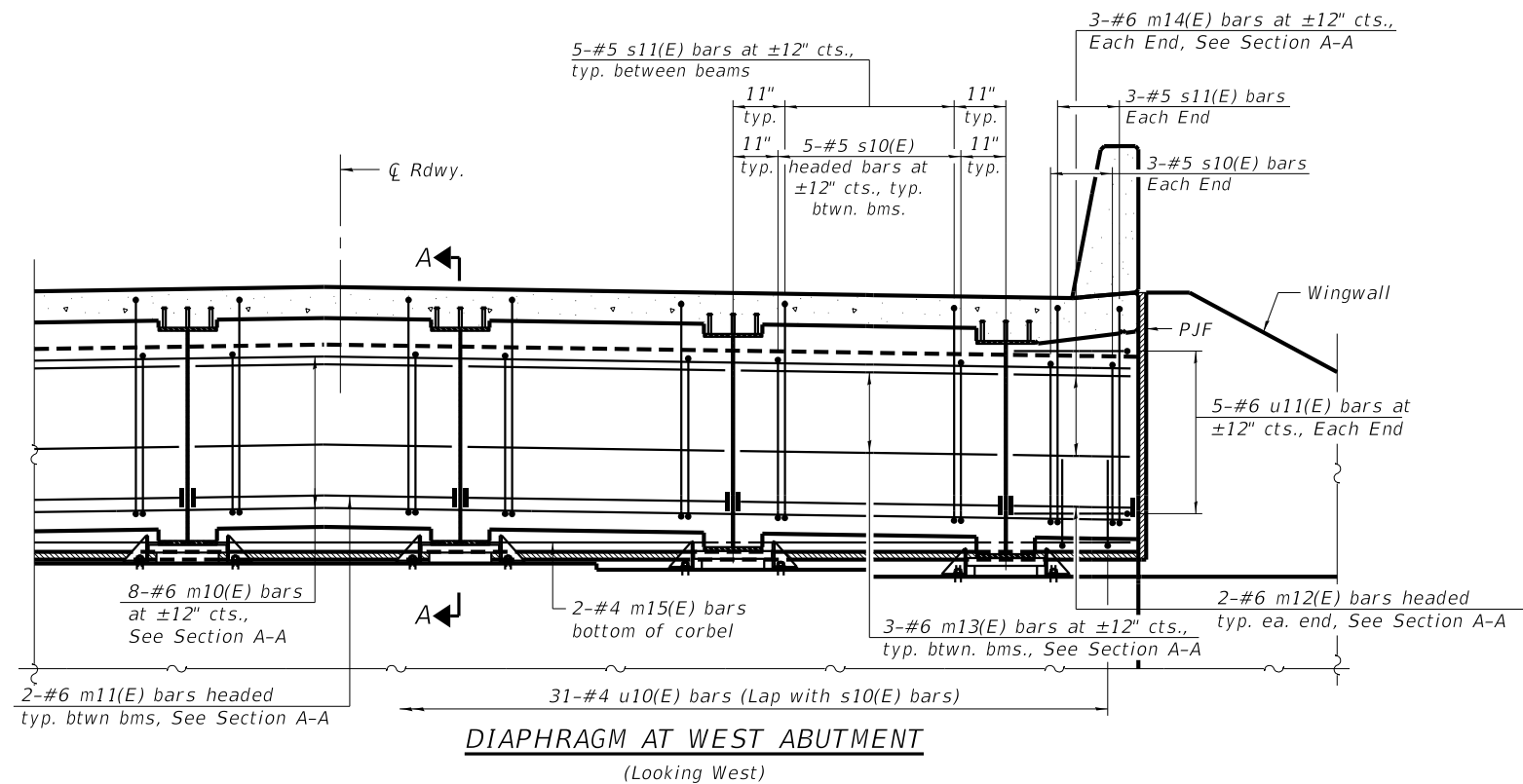
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 101-0220

STRUCTURAL SHEET NO. 12 OF 48 SHEETS

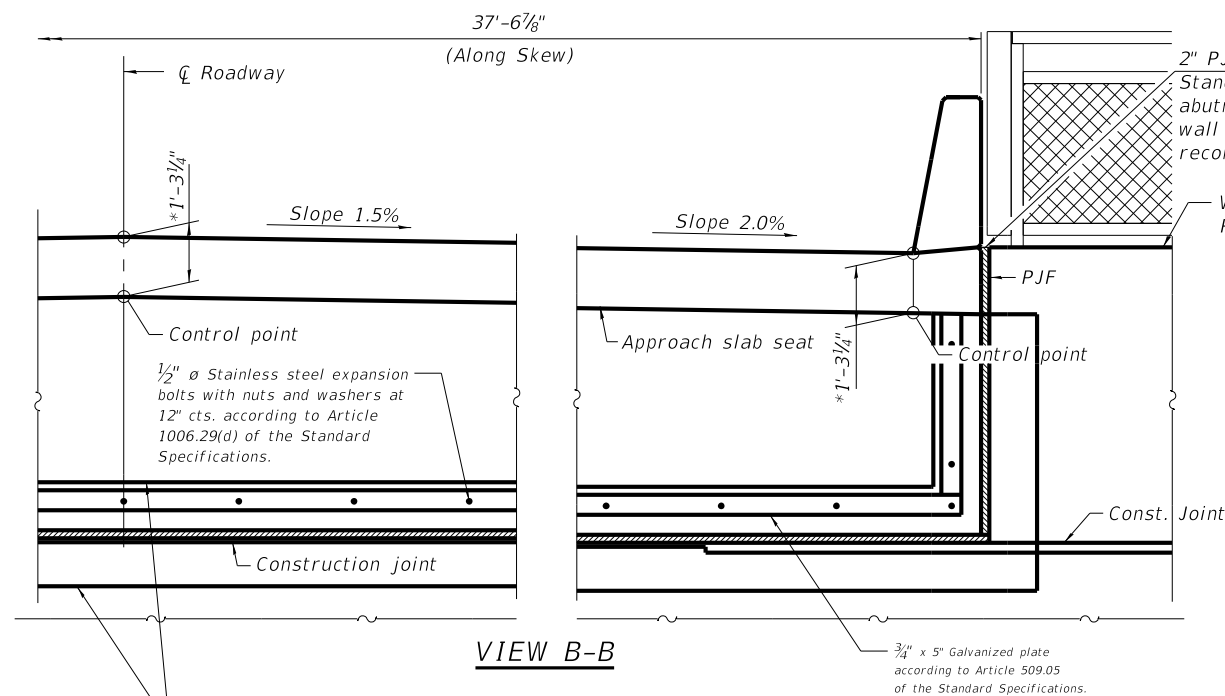
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	32
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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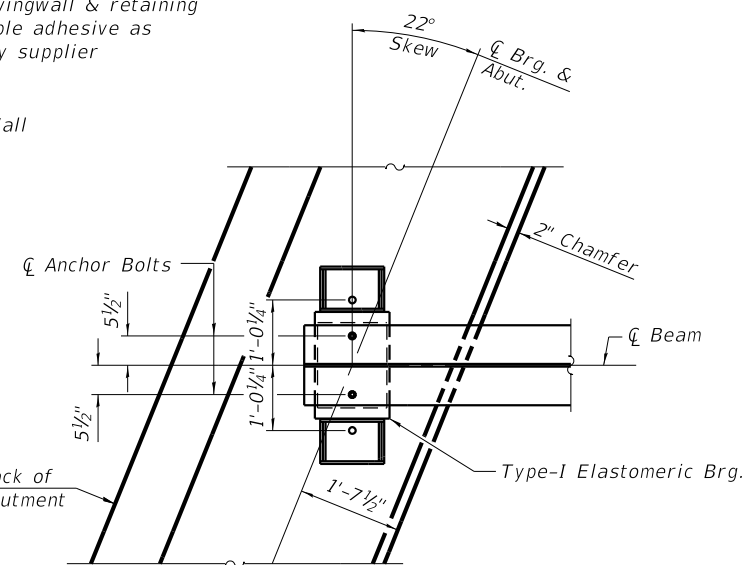
DIAPHRAGM AT WEST ABUTMENT
(Looking West)



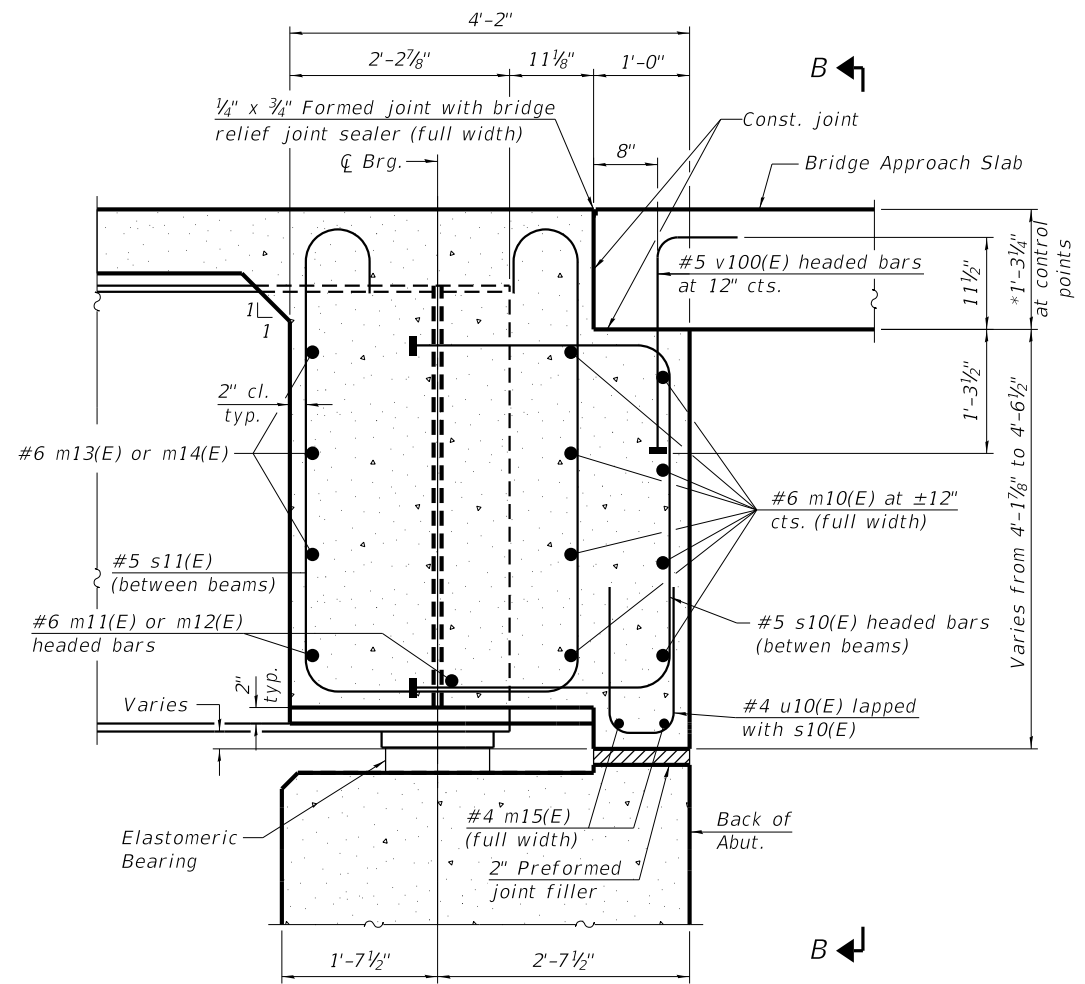
VIEW B-B

Limits of fabric reinforced elastomeric mat according to Section 1028 of the Standard Specifications and installed according to applicable requirements of Article 520.09 of the Standard Specifications.

*Prior to Grinding



PLAN AT WEST ABUTMENT
(Showing bottom flange of beam)



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

Notes:
See structural sheet 12 for superstructure details and Bill of Material.
The s10(E) and s11(E) bars shall be placed parallel to the beams.
Spacing for these bars shall be at right angles to the beams.
The approach slab seat shall have a constant slope determined from the control points shown.
Headed reinforcement will be paid for as Reinforcement Bars, Epoxy Coated and the heads will be paid for as Bar Terminators.
Cost of fabric reinforced elastomeric mat, galvanized plate, stainless steel expansion bolts with nuts and washers and installation are included in the cost of concrete superstructure.

REVISION	DATE	BY	REMARKS	DESIGNED	ATK
				DRAWN	DAL
				REVIEWED	EEL
				APPROVED	MRL

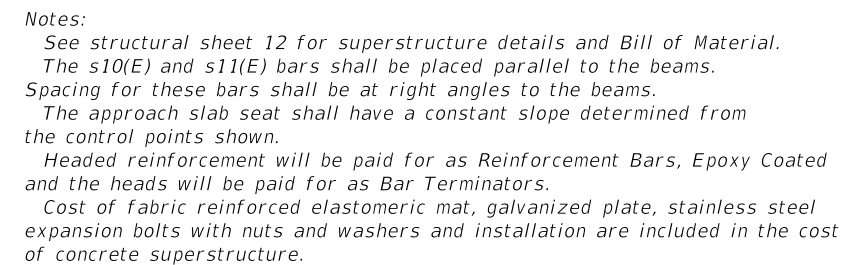
WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLETT HOFMANN
& ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

WEST ABUTMENT DIAPHRAGM DETAILS
STRUCTURE NO. 101-0220
STRUCTURAL SHEET NO. 13 OF 48 SHEETS

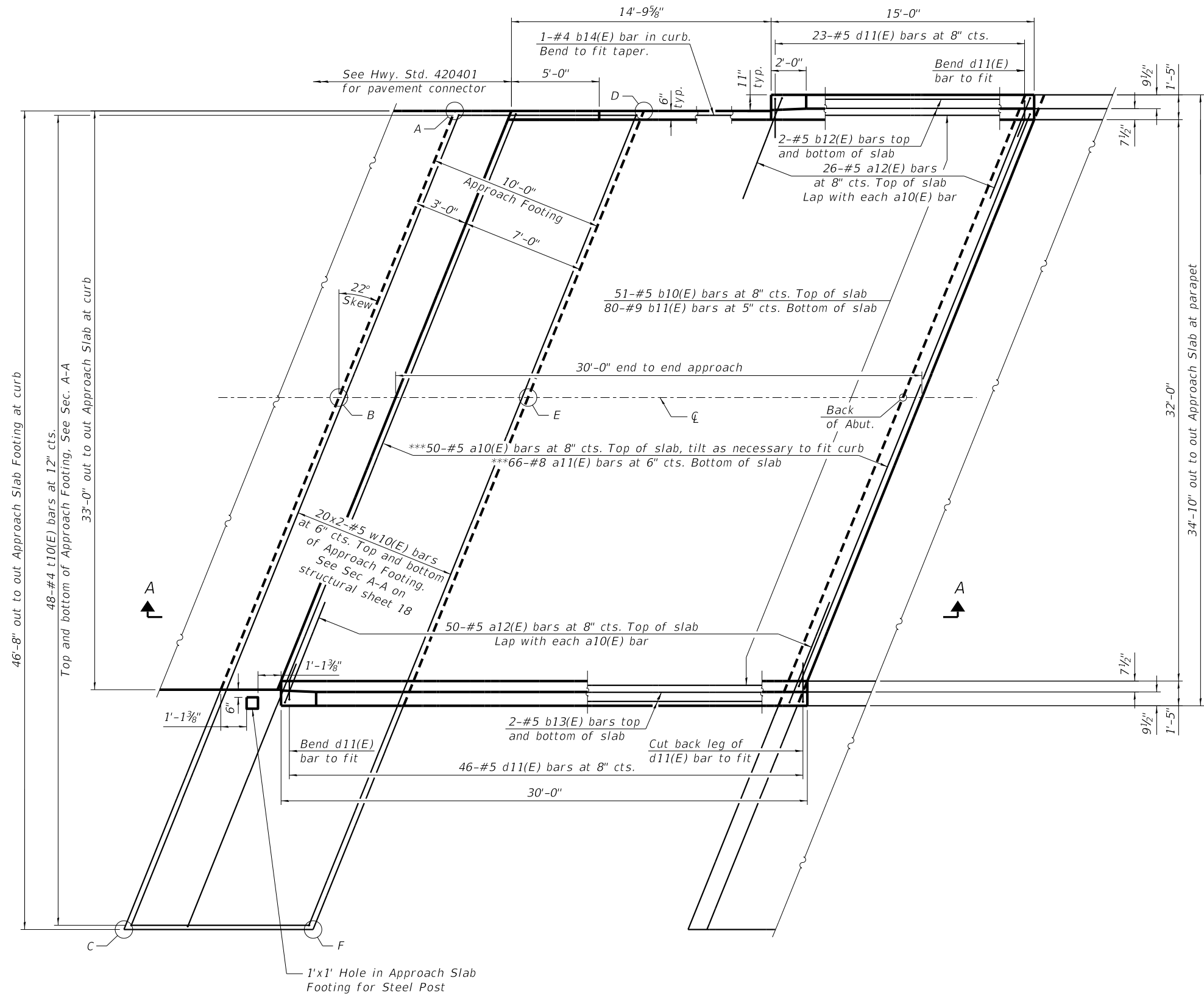
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	33
WHA* 1570D23		CONTRACT NO. 85764		
		ILLINOIS FED. AID PROJECT		



REVISION	DATE	BY	REMARKS	DESIGNED	ATK	WINNEBAGO COUNTY PRAIRIE HILL ROAD OVER ROCK RIVER STATION 20+00	 WILLETT HOFMANN ASSOCIATES INC ENGINEERING ARCHITECTURE LAND SURVEYING 809 EAST 2ND STREET, DIXON, IL 61021-0367 T: 815-284-3351 DESIGN FIRM: #184-000918	EAST ABUTMENT DIAPHRAGM DETAILS STRUCTURE NO. 101-0220	STRUCTURAL SHEET NO. 14 OF 48 SHEETS	F.A.U.	SECTION	COUNTY	TOTAL	SHEET	
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				REVIEWED	EEL						WHA# 1570D23		CONTRACT NO. 85764		
				APPROVED	MRL							ILLINOIS	FED. AID PROJECT		

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TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING

West Approach		
Point / Location	Top	Bottom
A	742.42	741.59
B	742.83	742.00
C	742.55	741.72
D	742.20	741.36
E	742.61	741.77
F	742.32	741.49

MINIMUM BAR LAP

#5 bar = 3'-7"

***Provide Bar Splicers on south face of bridge.
Lap splicers with a10(E) & a11(E) See Structural
Sheet 36 for additional information.

Notes:
See structural sheet 18 for Bill of Materials.

REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	EEL
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLETT HOFMANN
& ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

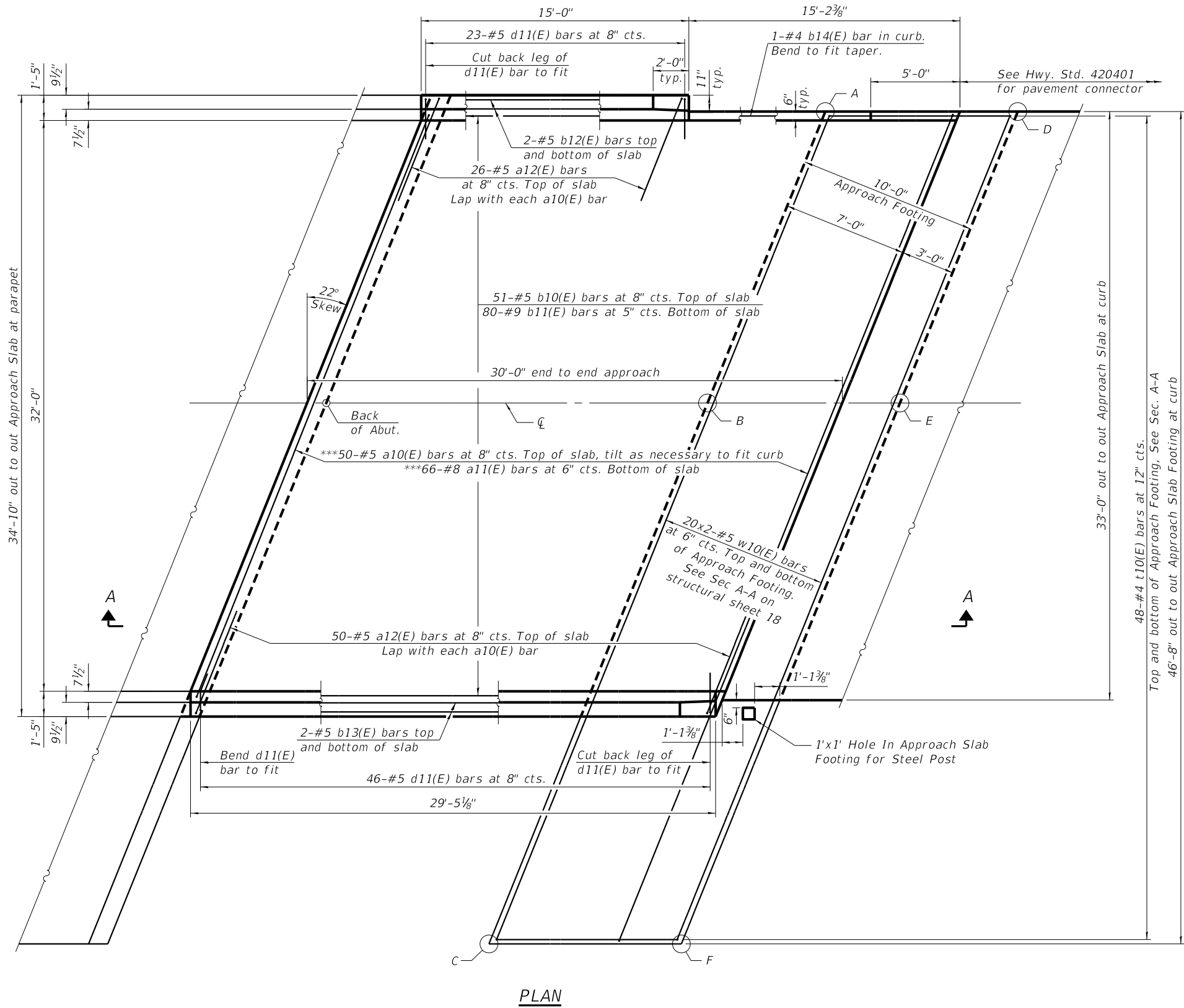
WEST APPROACH SLAB LAYOUT
STRUCTURE NO. 101-0220

STRUCTURAL SHEET NO. 15 OF 48 SHEETS

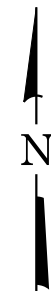
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	35
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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PLAN



TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING

East Approach		
Point / Location	Top	Bottom
A	735.79	734.96
B	736.10	735.27
C	735.64	734.81
D	735.73	734.89
E	736.04	735.20
F	735.57	734.74

MINIMUM BAR LAP

#5 bar = 3'-7"

***Provide Bar Splicers on south face of bridge.
Lap splicers with a10(E) & a11(E) See Structural
Sheet 36 for additional information.

Notes:
See structural sheet 18 for Bill of Materials.

REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	EEL
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



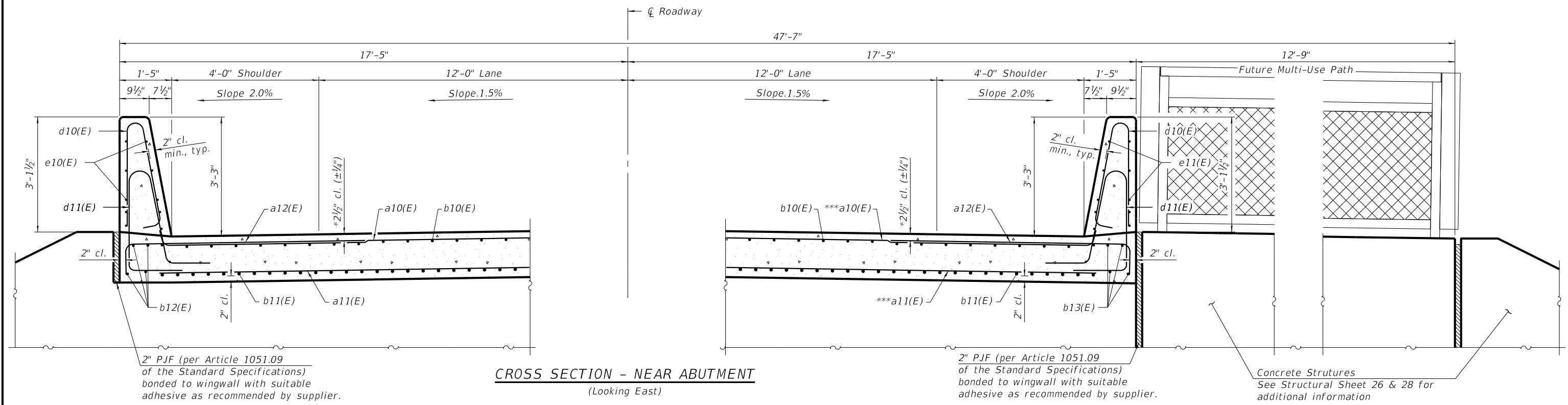
EAST APPROACH SLAB LAYOUT
STRUCTURE NO. 101-0220

STRUCTURAL SHEET NO. 16 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	36
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

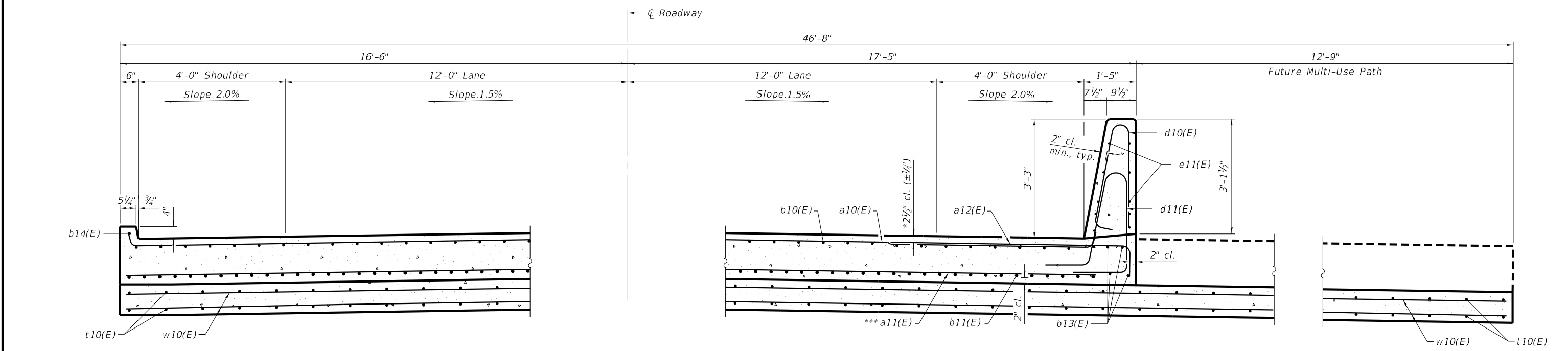
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CROSS SECTION - NEAR ABUTMENT
(Looking East)

*Prior to grinding



CROSS SECTION - AT APPROACH FOOTING
(Looking East)

*Prior to grinding

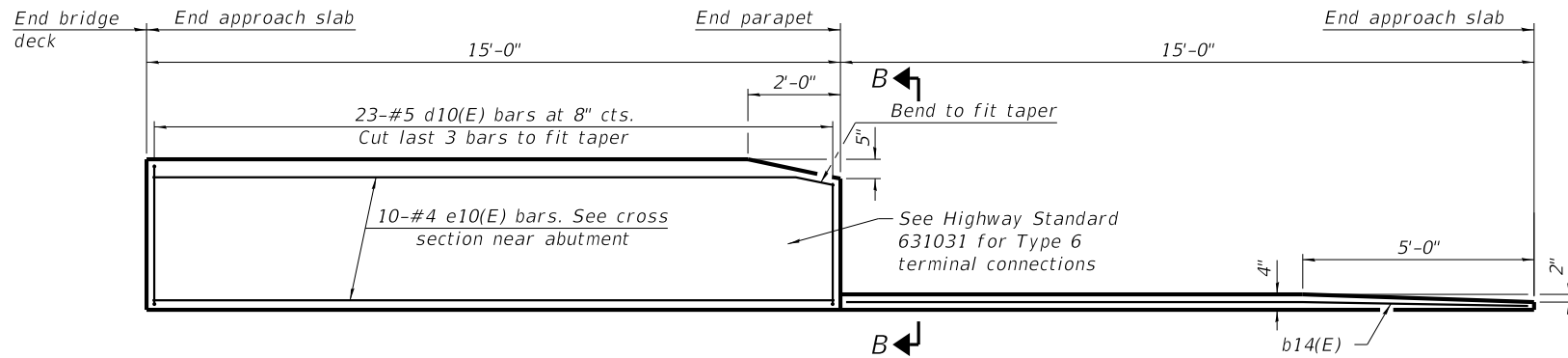
***Provide Bar Splicers on south face of bridge.
Lap splicers with a10(E) & a11(E) See Structural Sheet 36 for additional information.

NOTES:
See Structural Sheet 18 for Bill of Materials

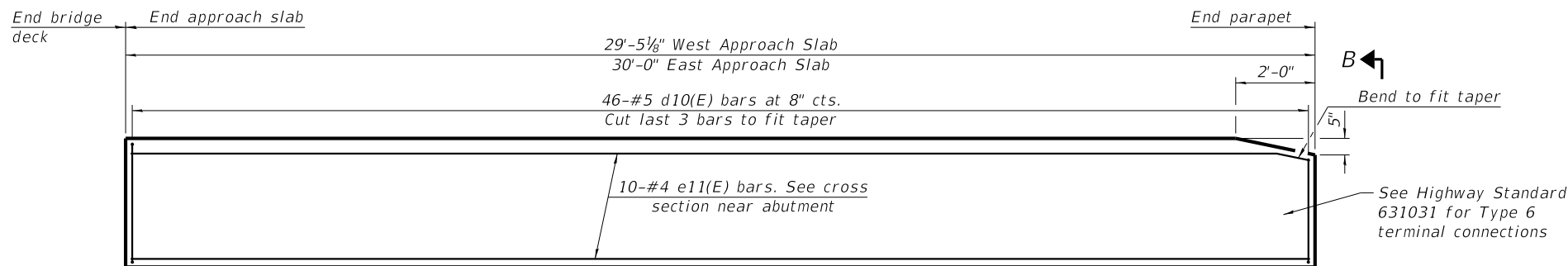
REVISION	DATE	BY	REMARKS	DESIGNED ATK	WINNEBAGO COUNTY PRAIRIE HILL ROAD OVER ROCK RIVER STATION 20+00	 WILLET & HOFMANN & ASSOCIATES, INC. ENGINEERING ARCHITECTURE LAND SURVEYING 809 EAST 2ND STREET, DIXON, IL 61021-0367 T: 815-284-3351 DESIGN FIRM: #184-000918	BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 101-0220		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
				DRAWN DAL			9876	18-00655-00-BR	WINNEBAGO	89	37			
				REVIEWED EEL			WHA# 1570D23		CONTRACT NO. 85764					
				APPROVED MRL			STRUCTURAL SHEET NO. 17 OF 48 SHEETS		ILLINOIS FED. AID PROJECT					

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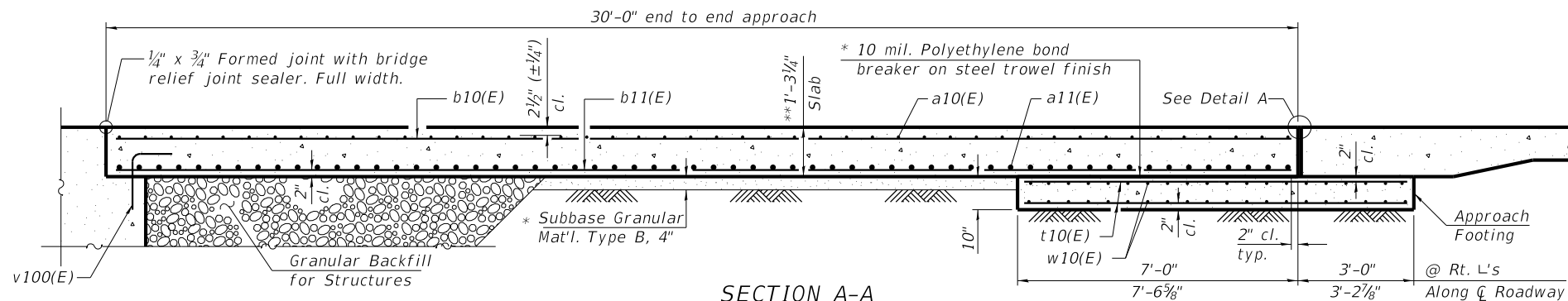
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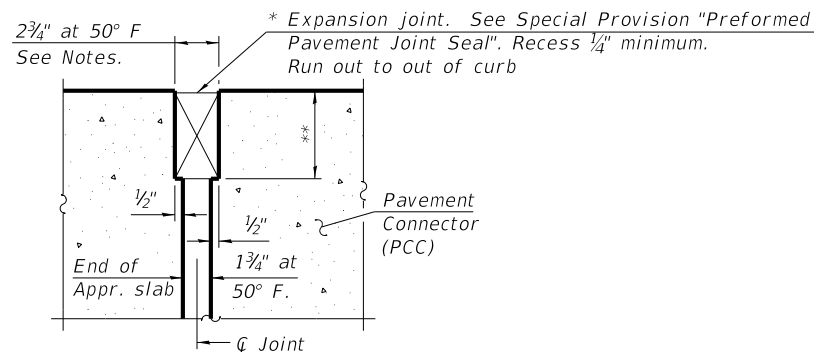
INSIDE ELEVATION OF PARAPET AND CURB - NORTH SIDE
(Looking North)



INSIDE ELEVATION OF PARAPET - SOUTH SIDE
(Looking South)

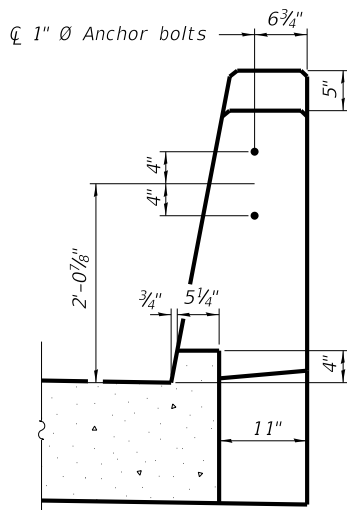


SECTION A-A
**Prior to grinding

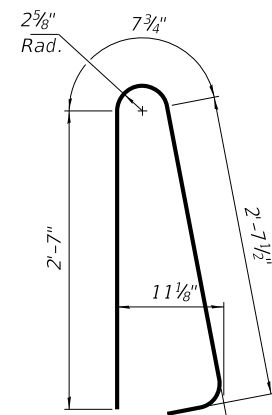


DETAIL A
(at Rt. L's)

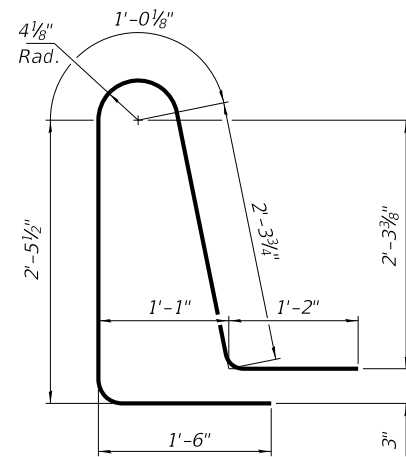
* Cost included with Concrete Superstructure (Approach Slab).
** Per manufacturer recommendations



VIEW B-B



BAR d10(E)



BAR d11(E)

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	100	#5	35'-10"	
a11(E)	132	#8	36'-2"	
a12(E)	152	#5	7'-4"	
b10(E)	102	#5	29'-8"	
b11(E)	160	#9	29'-8"	
b12(E)	8	#5	14'-8"	
b13(E)	8	#5	29'-8"	
b14(E)	2	#4	14'-6"	
d10(E)	138	#5	6'-5"	
d11(E)	138	#5	8'-6"	
e10(E)	20	#4	14'-8"	
e11(E)	20	#4	29'-8"	
t10(E)	192	#4	10'-5"	
w10(E)	160	#5	26'-10"	
Concrete Structures			Cu. Yd.	31.1
Concrete Superstructure			Cu. Yd.	11.9
Protective Coat			Sq. Yd.	255
Concrete Superstructure (Approach Slab)			Cu. Yd.	97.1
Reinforcement Bars, Epoxy Coated			Pound	45,890
Diamond Grinding (Bridge Section)			Sq. Yd.	321
Bridge Deck Grooving (Longitudinal)			Sq. Yd.	160
Bar Splicers			Each	232

NOTES:

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.

Parapet concrete shall be paid for as Concrete Superstructure.

Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

For Granular Backfill for Structures and drainage treatment details, see structural sheet 4.

REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	EEL
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLETT HOFMANN
& ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

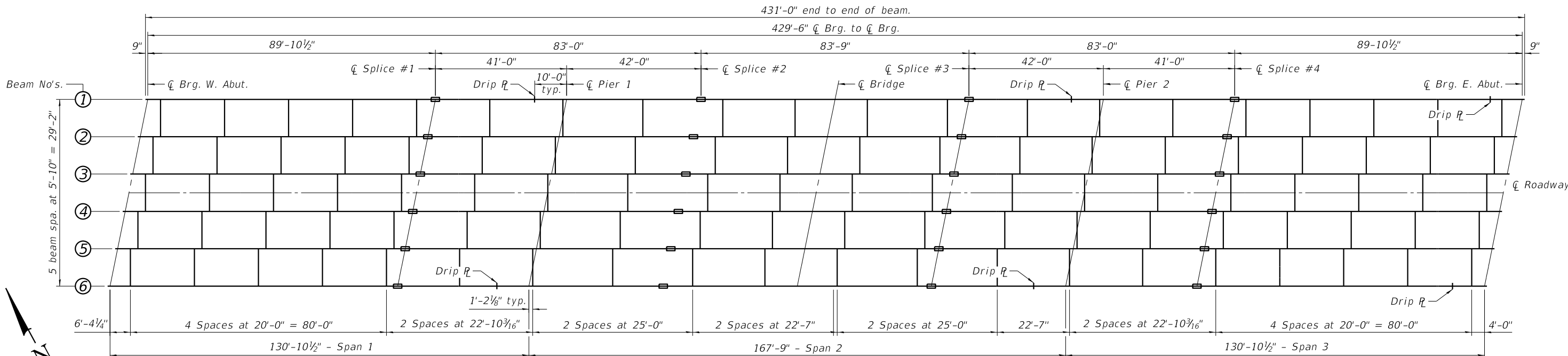
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 101-0220

STRUCTURAL SHEET NO. 18 OF 48 SHEETS

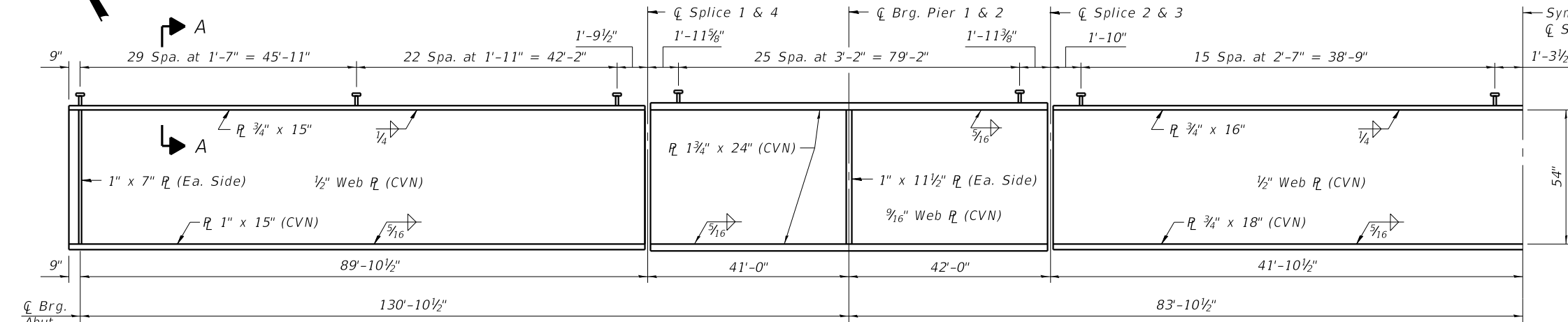
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9876	18-00655-00-BR	WINNEBAGO	89	38
WHA# 1570023		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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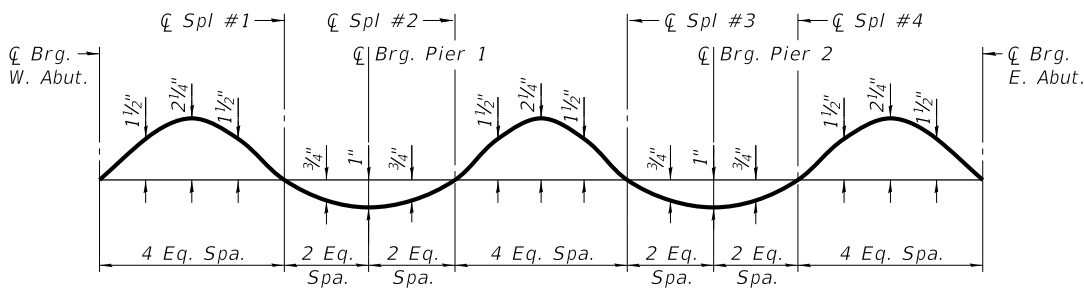
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FRAMING PLAN

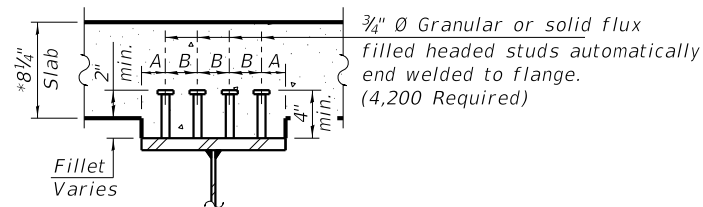


GIRDER ELEVATION
"CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.



TOP OF WEB ELEVATIONS (FOR FABRICATION ONLY)

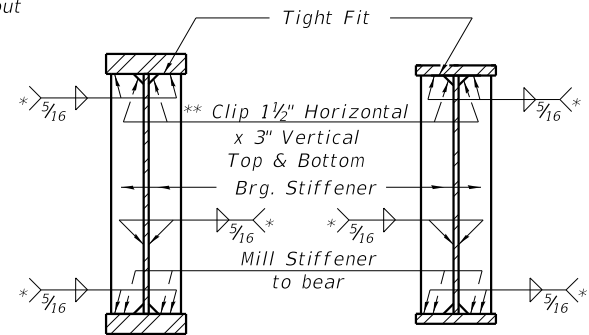
Girder	Q Brg. W Abut.	Q Field Splice 1	Q Brg. Pier 1	Q Field Splice 2	Q Field Splice 3	Q Brg. Pier 2	Q Field Splice 4	Q Brg. E Abut.
1 (North Fascia)	742.11	740.44	739.68	739.12	737.99	737.43	737.09	736.35
2	742.26	740.58	739.82	739.25	738.12	737.55	737.21	736.46
3	742.40	740.71	739.94	739.37	738.24	737.66	737.32	736.57
4	742.44	740.75	739.98	739.41	738.27	737.69	737.35	736.58
5	742.40	740.71	739.93	739.36	738.21	737.63	737.28	736.51
6 (South Fascia)	742.35	740.65	739.87	739.29	738.14	737.56	737.20	736.43



SECTION A-A

*Prior to 1/4" Grinding

Flange Width	Variable		
	Studs Per Row	A	B
15"	3	3"	4 1/2"
24"	5	3"	4 1/2"
16"	4	2"	4"



SECTION AT PIER

Required = 12

SECTION AT ABUTMENT

Required = 12

* Terminate 1/4" (±1/8") from the end of plate intersects.
** Clip may be rounded for ease of shop painting.

NOTES:

Fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts in painted or coated metalized areas. Fasteners shall be ASTM F 3125 Grade A325 Type 1, hot-dipped galvanized in unpainted areas. Fasteners shall be ASTM F3125 Grade A325 Type 3 weathering steel bolts in unpainted areas. Bolts 7/8 in. diameter, holes 1 1/16 in. diameter, unless otherwise noted. No field welding is permitted except as specified in the contract documents. Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy Requirement, Zone 2. 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 bolts. Drains shall be located clear of all diaphragms. All structural steel for plate girder flanges, webs, and bearing stiffeners shall conform to the requirements of AASHTO M270, Grade 50W

REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	EEL
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



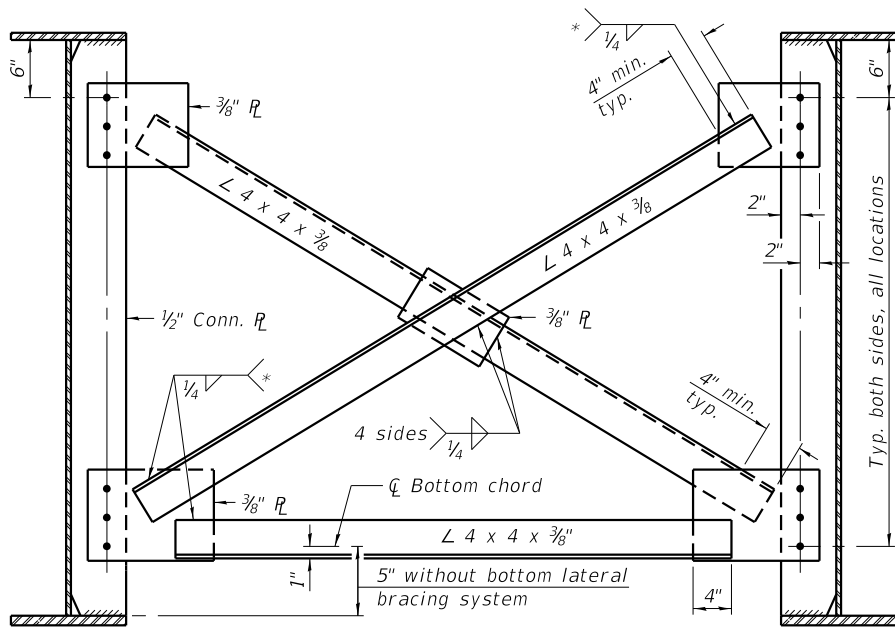
WILLET & HOFMANN
ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

FRAMING PLAN
STRUCTURE NO. 101-0220
STRUCTURAL SHEET NO. 19 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	39
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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FILE = S:\PROJECTS\2023\1570223.WNC.Prairie Hill Road Over Rock River Station 20+00\2023.Structural Steel.dgn

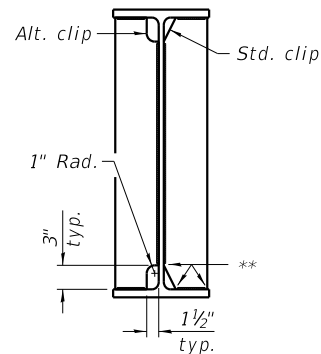


* Fillet weld angles along 3 sides on one face of gusset plate

CROSS FRAME CONNECTION PLATE

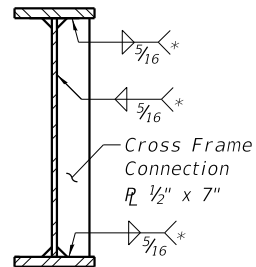
(100 Required)

Notes:
Detail 1 1/16" Ø holes for all 3/4" Ø bolts (1 1/16" Ø holes for all 7/8" Ø bolts only if required by design).
Two hardened washers required for each set of oversized holes.



WELD LIMITS AND CLIP DETAILS

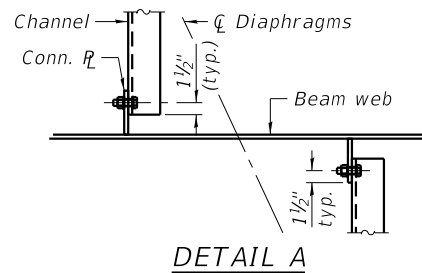
** Stop welds 1/4" (±1/8") from edges as shown.
Typical.



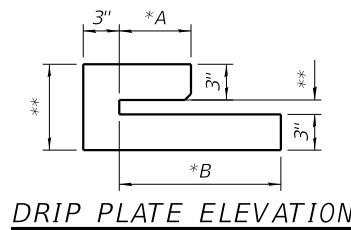
CROSS FRAME CONNECTION PLATE

(No. req'd = 200)

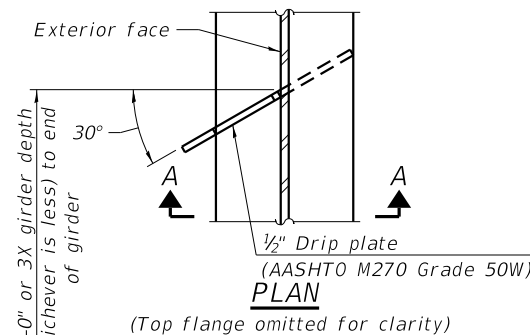
Notes:
Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy Requirement, Zone 2.
All structural steel for splice plates, except fill plates, shall conform to the requirements of AASHTO M270, Grade 50.



DETAIL A

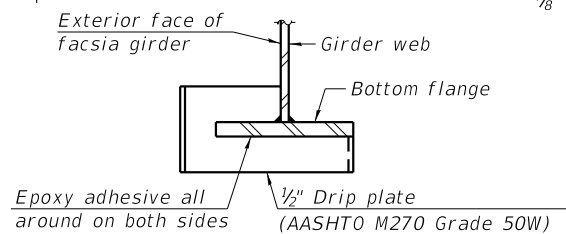


DRIP PLATE ELEVATION



PLAN

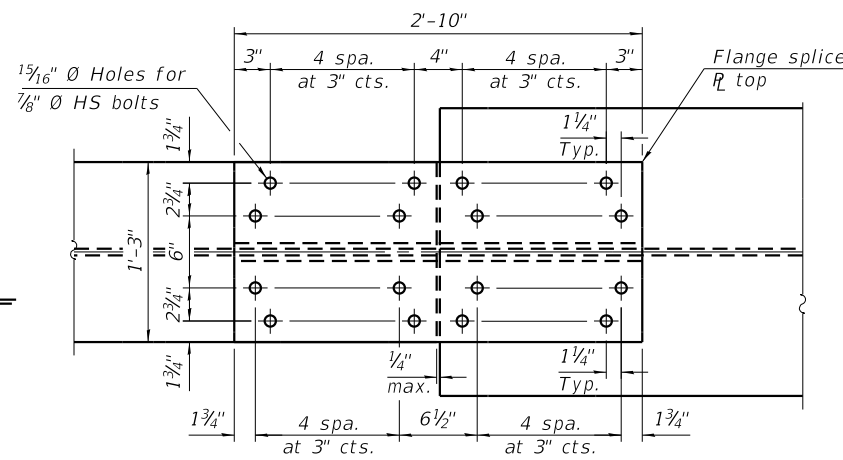
(Top flange omitted for clarity)



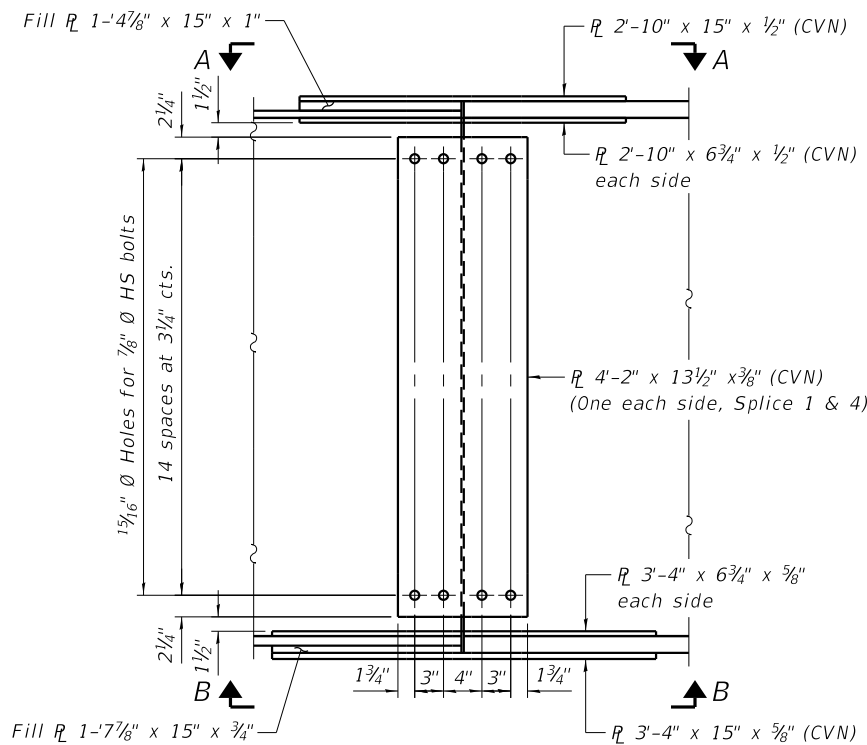
SECTION A-A

DRIP PLATE DETAIL

*Adjust A and B to fit girder bottom flange
**Adjust dimensions as required for thickness tolerance and fit-up

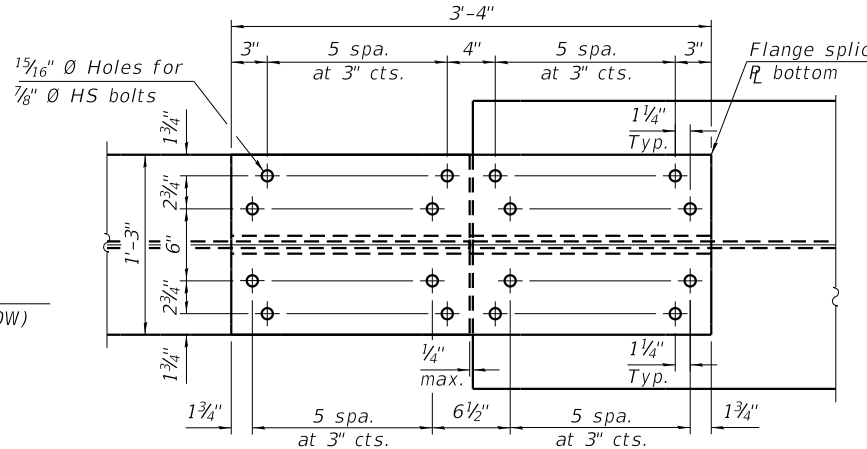


SECTION A-A

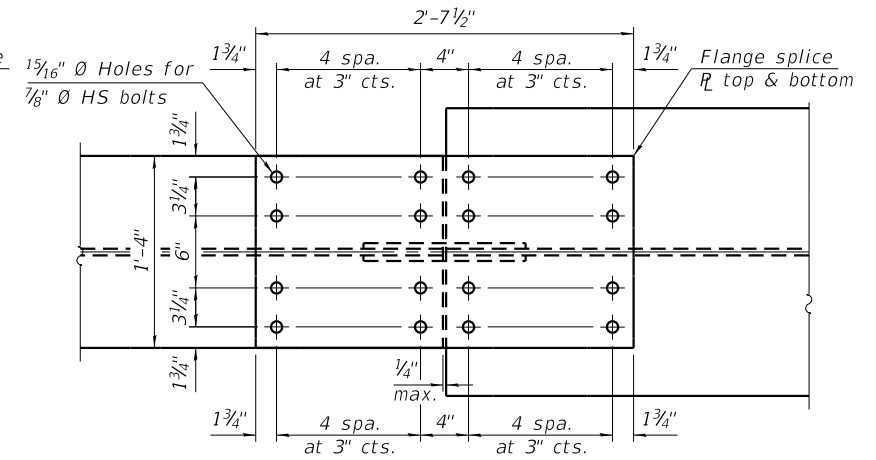


FIELD SPLICE DETAIL - SPLICE 1 & 4

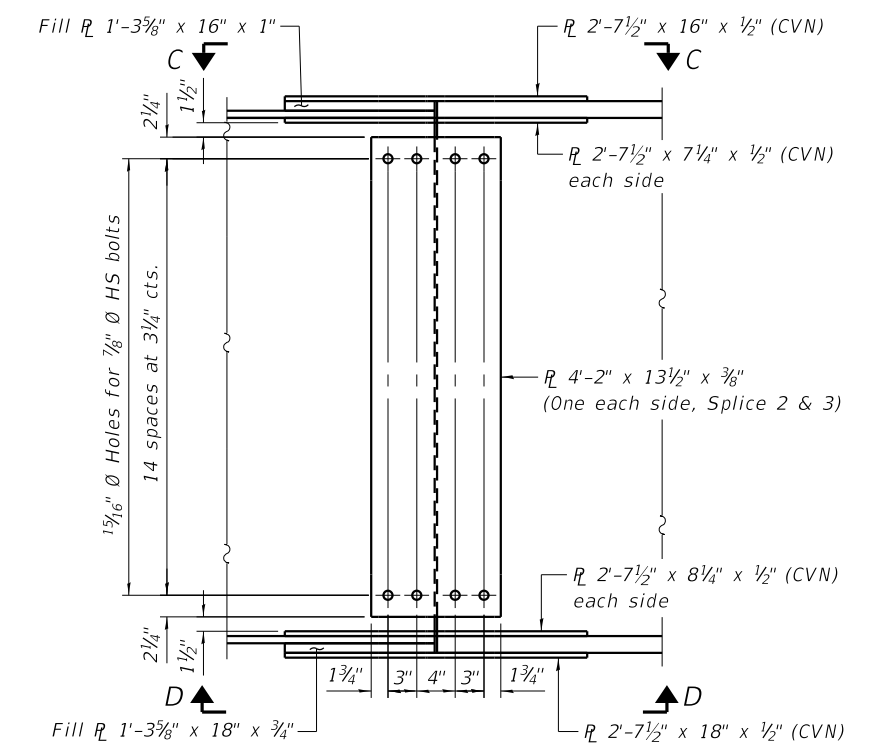
(12 Required)



SECTION B-B

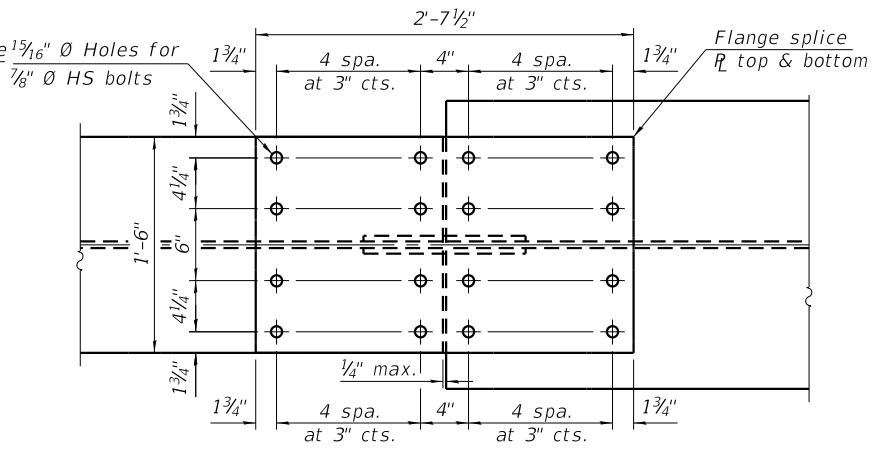


SECTION C-C



FIELD SPLICE DETAIL - SPLICE 2 & 3

(12 Required)



SECTION D-D

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

WILLETT HOFMANN
ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

STRUCTURAL STEEL
STRUCTURE NO. 101-0220

STRUCTURAL SHEET NO. 20 OF 48 SHEETS

REVISION	DATE	BY	REMARKS	DESIGNED	ATK
				DRAWN	DAL
				REVIEWED	EEL
				APPROVED	MRL

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	40

WHA# 1570D23 CONTRACT NO. 85764

ILLINOIS FED. AID PROJECT

INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1 or 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. 2
I_s	(in ⁴)	26,132	72,672	25,640
$I_c(n)$	(in ⁴)	62,327	—	59,093
$I_c(3n)$	(in ⁴)	45,958	—	44,026
$I_c(cr)$	(in ⁴)	—	79,250	—
S_s	(in ³)	1,004	—	951
$S_c(n)$	(in ³)	1,356	—	1,276
$S_c(3n)$	(in ³)	1,242	—	1,169
$S_c(cr)$	(in ³)	—	2,497	—
S_x	(in ³)	1,251	2,922	1,196
DC1	(k/')	0.876	1.125	0.873
M_{DC1}	(k)	881	2699	674
DC2	(k/')	0.179	0.179	0.179
M_{DC2}	(k)	206	409	220
DW	(k/')	0.292	0.292	0.292
M_{DW}	(k)	336	668	359
LLDF		0.466	0.483	0.436
$M_{\ell + IM}$	(k)	1,527	1,982	1,358
f_t (Strength I)	(ksi)	0	0	0
$M_u + \frac{1}{3} f_t S_x$	(k)	4,534	8,356	4,033
$\phi_f M_n$	(k)	7,043	11,443	6,704
f_s DC1	(ksi)	10.529	12.972	8.502
f_s DC2	(ksi)	1.989	1.968	2.260
f_s DW	(ksi)	3.245	3.210	3.687
f_s ($\ell + IM$)	(ksi)	13.515	9.525	12.772
f_t (Service II)	(ksi)	0	0	0
$f_s + \frac{f_t}{2}$ (Service II)	(ksi)	34.008	31.008	31.691
Service II Resistance	(ksi)	47.5	47.5	47.5
$f_s + \frac{f_t}{3}$ (Strength I)	(ksi)	—	45	—
$\phi_f F_n$	(ksi)	—	50	—
V_f	(k)	301	330	213

GIRDER REACTION TABLE		
	Abut.	Pier
LLDF	0.66	0.66
OCF	1.09	1.00
R_{DC1}	(k) 38.98	170.67
R_{DC2}	(k) 8.59	30.37
R_{DW}	(k) 14.00	48.70
R_{ℓ}	(k) 74.26	147.15
R_{IM}	(k) 15.50	25.62
R_{Total} (Strength I)(Impact)	(k) 237.55	626.71
R_{Total} (Strength I)(No Impact)	(k) 210.42	581.88

- I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).
- $I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).
- $I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).
- $I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).
- S_x : Section modulus about the major axis of a section to the controlling flange, tension or compression, taken as yield moment with respect to the controlling flange over the yield strength of the controlling flange (in.³).
- DC1: Un-factored non-composite dead load (kips/ft.).
- M_{DC1} : Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M_{DC2} : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- LLDF: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.
- $M_{\ell + IM}$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- M_u : Strength I load combination of factored design moments (kip-ft.).
1.25 ($M_{DC1} + M_{DC2}$) + 1.5 M_{DW} + 1.75 $M_{\ell + IM}$
- f_t : Factored calculated flange lateral bending stress as calculated using Article 6.10.1.6 and as further simplified by IDOT provisions (ksi).
- $\phi_f M_n$: Factored nominal flexural resistance of the section determined as specified in Article 6.10.7.1 or A6 as applicable (kip-ft.).

- f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
 M_{DC1} / S_s
- f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 $M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.
- f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
 $M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.
- f_s ($\ell + IM$): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
 $M_{\ell + IM} / S_c(n)$ or $M_{\ell + IM} / S_c(cr)$ as applicable.
- $f_s + f_t / 2$ (Service II): Sum of stresses as computed below (ksi).
 f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s ($\ell + IM$) + $f_t / 2$
- Service II Resistance: Composite (0.95 $R_h F_{yf}$) or noncomposite (0.80 $R_h F_{yf}$) stress capacity according to Article 6.10.4.2 (ksi).
- $f_s + f_t / 3$ (Strength I): Sum of stresses as computed below on non-compact sections (ksi).
1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s ($\ell + IM$) + $f_t / 3$
- $\phi_f F_n$: Factored nominal flexural resistance of the section as specified in Article 6.10.7.2 or 6.10.8 as applicable (ksi).
- V_f : Maximum factored shear range in span computed according to Article 6.10.10.
- OCF: Obtuse Correction Factor according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.
- R_{DC1} : Un-factored reaction due to non-composite dead load (kip).
- R_{DC2} : Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).
- R_{DW} : Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).
- R_{ℓ} : Un-factored live load reaction (kip).
- R_{IM} : Un-factored dynamic load allowance (impact) (kip).
- R_{Total} (Strength I)(Impact): Strength I load combination of factored design reactions (kip).
1.25 ($R_{DC1} + R_{DC2}$) + 1.5 R_{DW} + 1.75 ($R_{\ell} + R_{IM}$)
- R_{Total} (Strength I)(No Impact): Strength I load combination of factored design reactions, not including dynamic load allowance (Impact) (kip).
1.25 ($R_{DC1} + R_{DC2}$) + 1.5 R_{DW} + 1.75 (R_{ℓ})

REVISION	DATE	BY	REMARKS	DESIGNED	ATK
				DRAWN	DAL
				REVIEWED	EEL
				APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLET HOFMANN
& ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

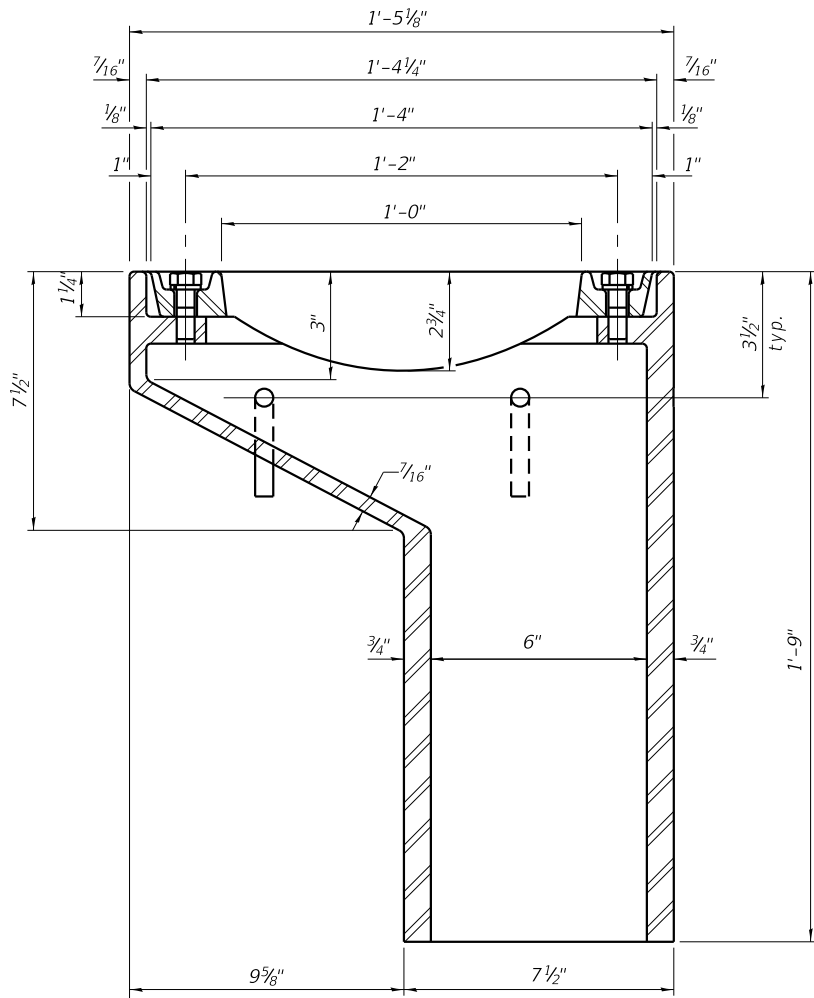
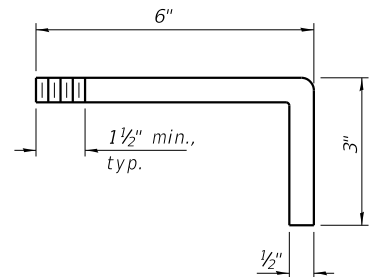
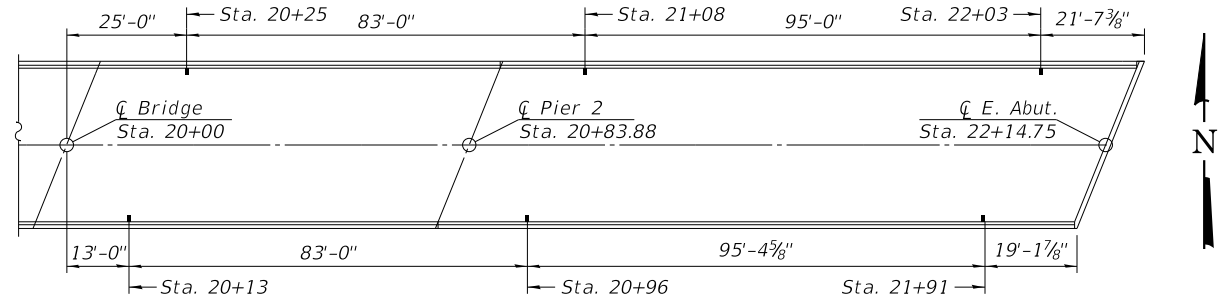
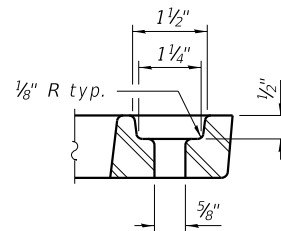
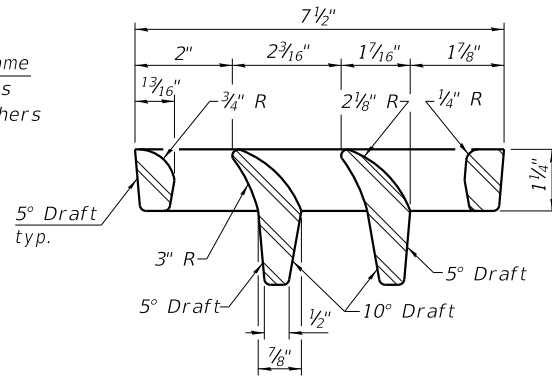
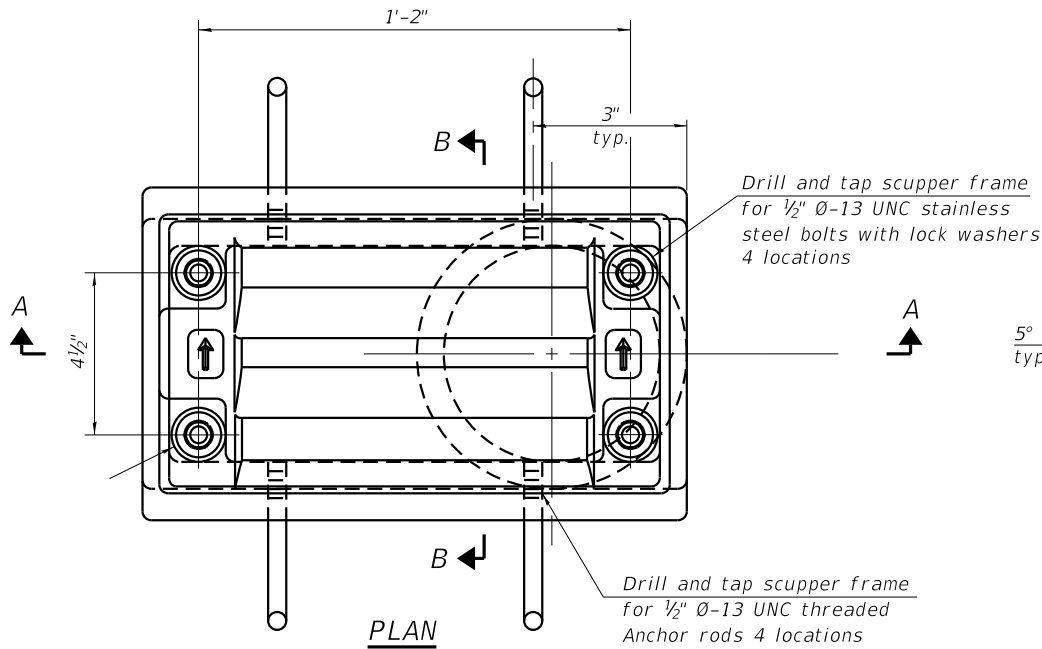
STRUCTURAL STEEL DETAILS
STRUCTURE NO. 101-0220

STRUCTURAL SHEET NO. 21 OF 48 SHEETS

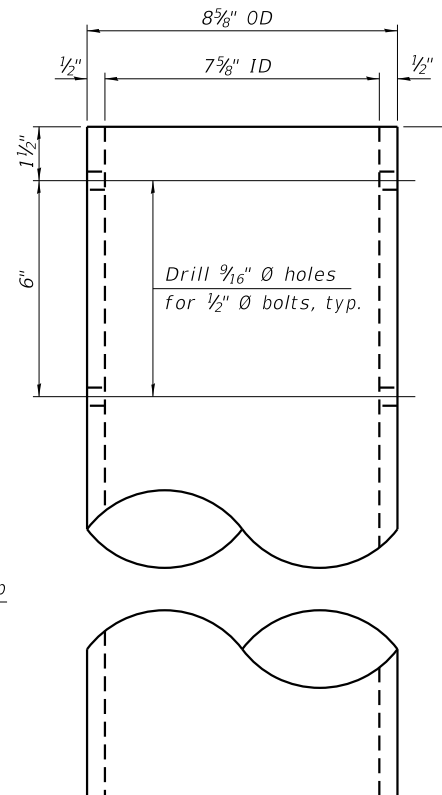
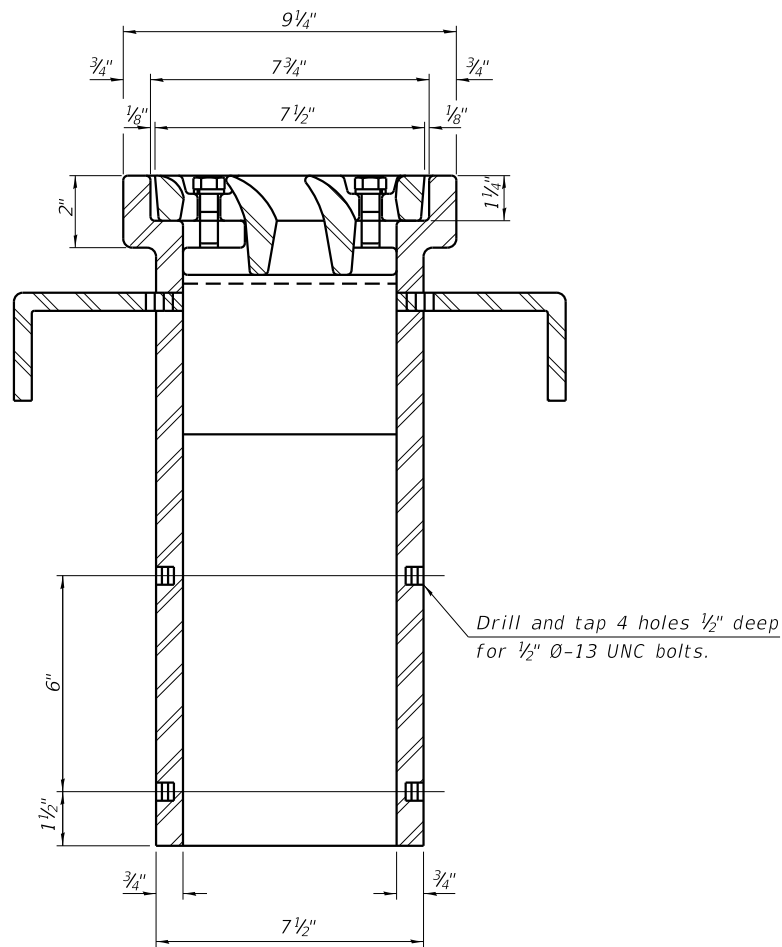
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	41
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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See sheet 12 for scupper location relative to parapet.



NOTES:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306. Bolts, anchor rods, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used. Stainless steel hardware shall be according to Article 1006.29(d) of the Standard Specifications. Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111. As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel. Drains need not be painted. The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper. Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scuppers, DS-11. Drains shall be located clear of all diaphragm.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers, DS-11	Each	6

REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	EEL
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

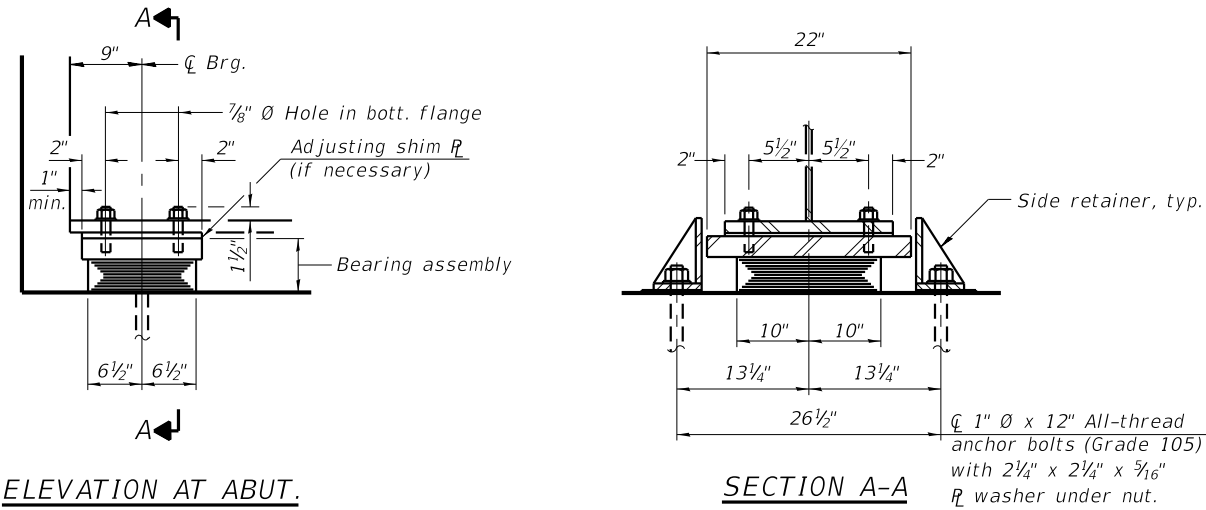


WILLETT HOFMANN
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ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

DRAINAGE SCUPPERS, DS-11
STRUCTURE NO. 101-0220

STRUCTURAL SHEET NO. 22 OF 48 SHEETS

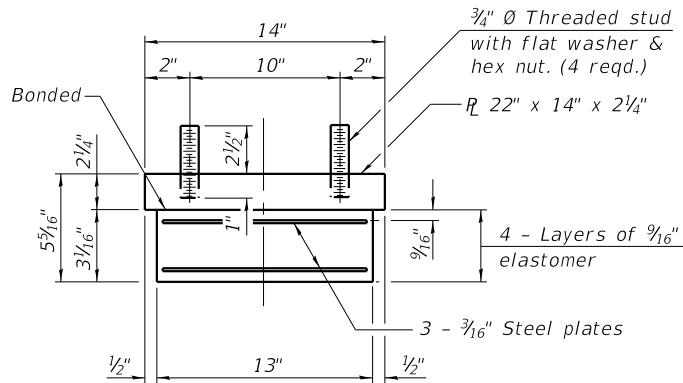
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	42
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				



ELEVATION AT ABUT.

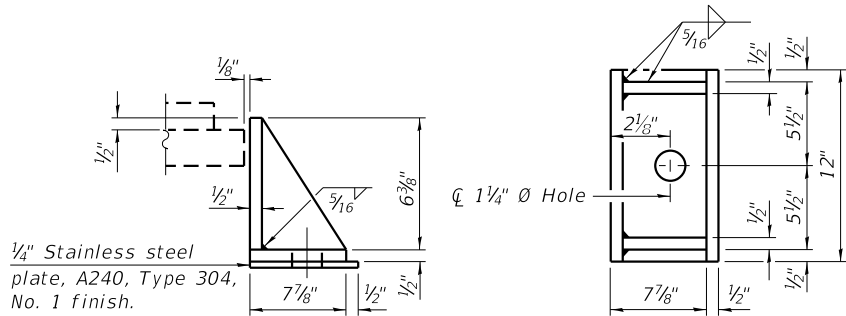
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG. - WEST ABUTMENT



BEARING ASSEMBLY

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



SIDE RETAINER

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

NOTES

Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50W.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	6
Anchor Bolts, 1"	Each	12

REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	EEL
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

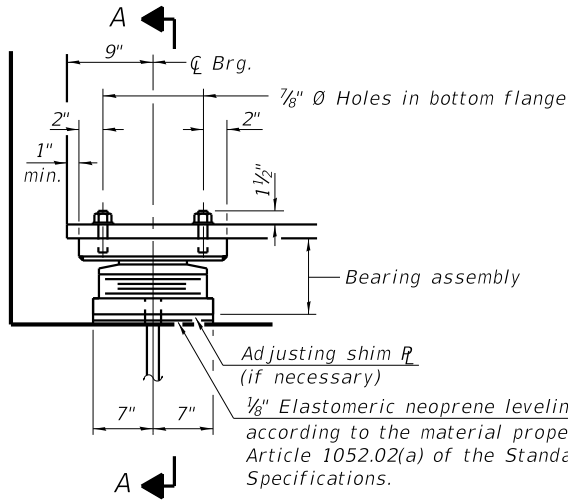


WILLETT HOFMANN
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ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

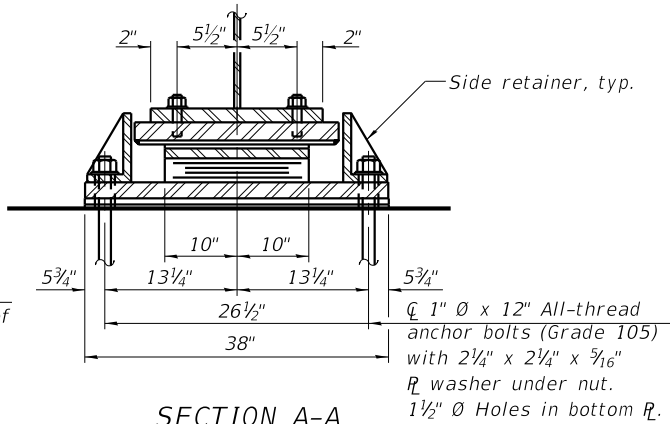
BEARING DETAILS - WEST ABUTMENT
STRUCTURE NO. 101-0220

STRUCTURAL SHEET NO. 23 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	43
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

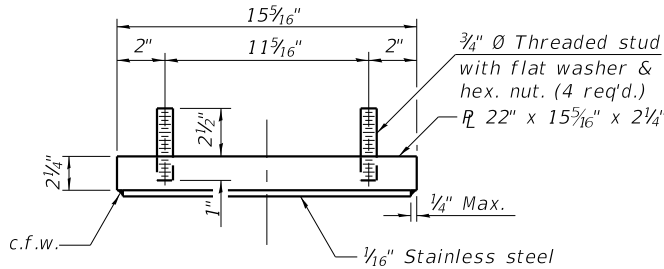


ELEVATION AT ABUT.

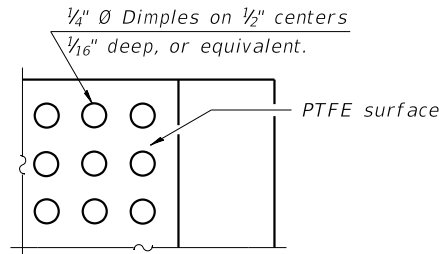


SECTION A-A

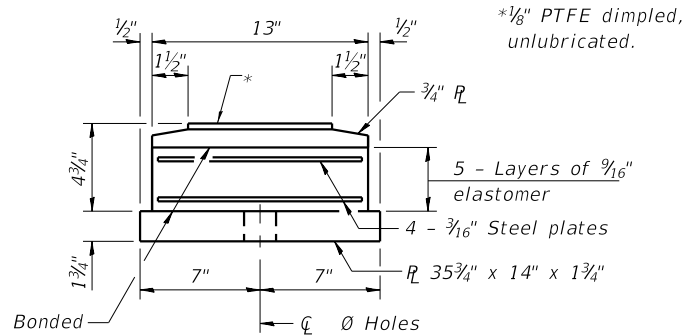
TYPE II ELASTOMERIC EXP. BRG. - EAST ABUTMENT



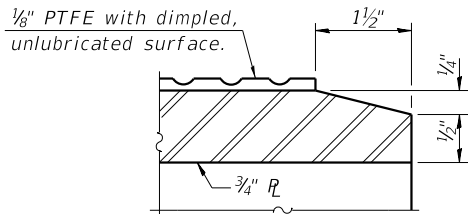
TOP BEARING ASSEMBLY



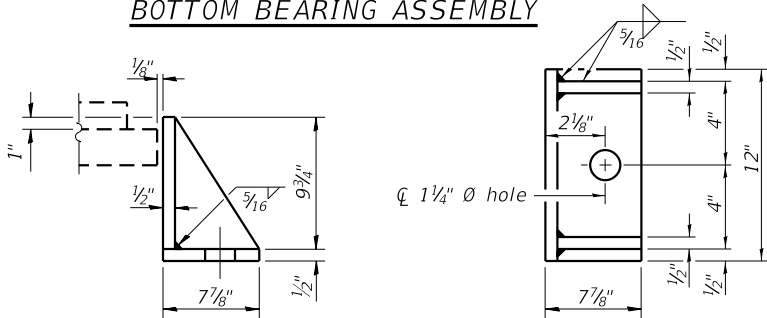
PLAN-PTFE SURFACE



BOTTOM BEARING ASSEMBLY

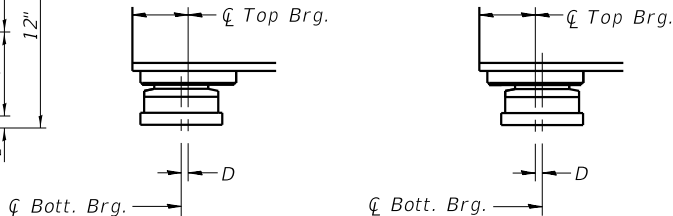


SECTION THRU PTFE



SIDE RETAINER

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



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

EXPANSION BEARING ORIENTATION

NOTES

Side retainers and leveling pad required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.

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.

Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50W.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	6
Anchor Bolts, 1"	Each	12

REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	EEL
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLETT HOFMANN
& ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

BEARING DETAILS - EAST ABUTMENT
STRUCTURE NO. 101-0220

STRUCTURAL SHEET NO. 24 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET
9876	18-00655-00-BR	WINNEBAGO	89
WHA# 1570D23		CONTRACT NO.	
ILLINOIS FED. AID PROJECT			



TYPE I ELASTOMERIC EXP. BRG. - PIER 2



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

NOTES:

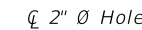
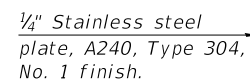
Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50W.

Two $\frac{1}{8}$ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.



SIDE RETAINER

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

BILL OF MATERIAL - PIER 1

<i>Item</i>	<i>Unit</i>	<i>Total</i>
Anchor Bolts, 1½"	Each	12

BILL OF MATERIAL - PIER 2

<i>Item</i>	<i>Unit</i>	<i>Total</i>
<i>Elastomeric Bearing Assembly Type I</i>	<i>Each</i>	<i>6</i>
<i>Anchor Bolts, 1½"</i>	<i>Each</i>	<i>12</i>

REVISION	DATE	BY	REMARKS	DESIGNED	ATK
				DRAWN	DAL
				REVIEWED	EEL
				APPROVED	MRI

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLETT HOFMANN
 & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

BEARING DETAILS - PIER 1 & 2
STRUCTURE NO. 101-0220

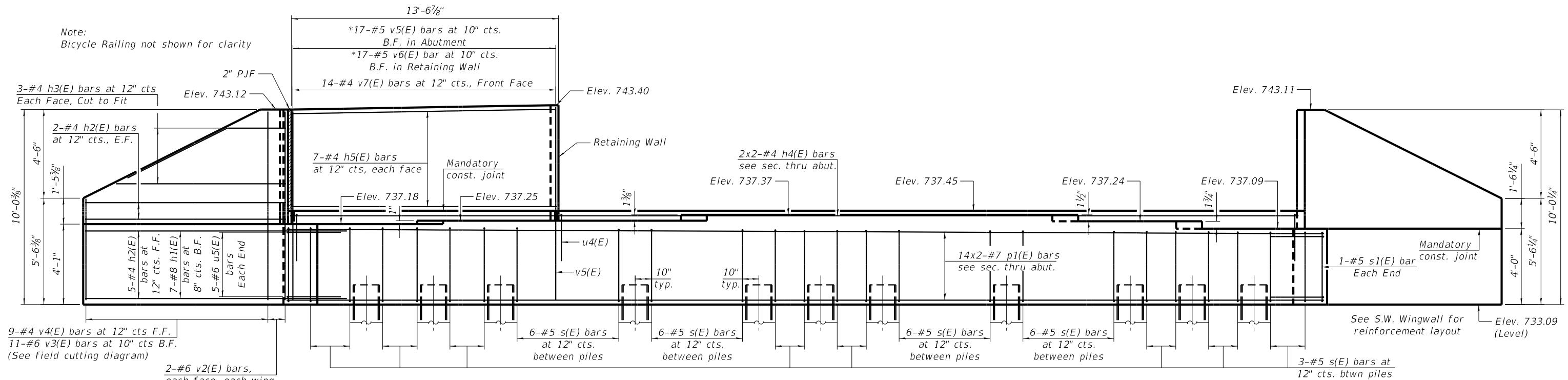
STRUCTURAL SHEET NO. 25 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	45
WHA* 1570D23		CONTRACT NO. 8576		
ILLINOIS FED. AID PROJECT				

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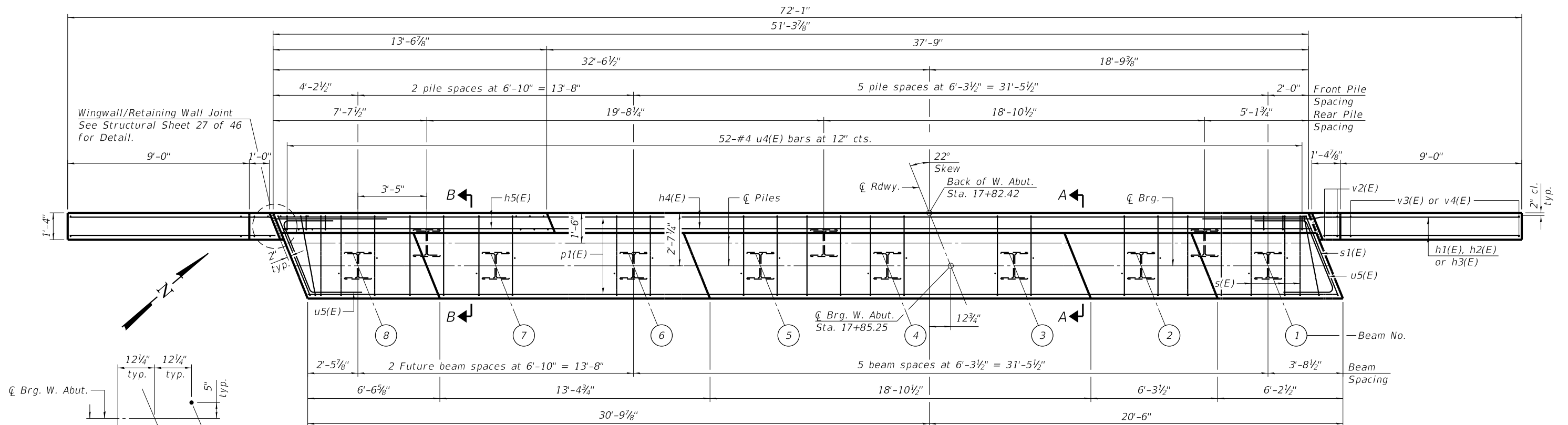
FILE = S:\PROJECTS\2023\15702023.WNC.Prairie Hill Road Over Rock River\15702023.West Abutment Details.dgn

*v5(E) and v7(E) bars are connected via Splicer Assembly



ELEVATION

Concrete Encasement not shown for clarity. See Structural Sheet 34 for details



PLAN

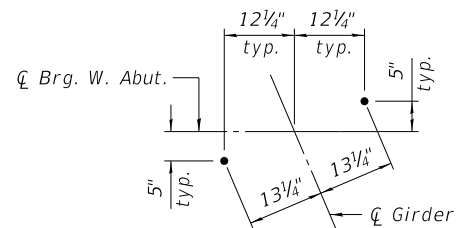
(All Dimensions Are Along Skew)

Concrete Encasement not shown for clarity. See Structural Sheet 34 for details

MINIMUM BAR LAP

#4 bar = 2'-2"
#7 bar = 4'-11"

ANCHOR BOLT LAYOUT



REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	EEL
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLET-HOFMANN
ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

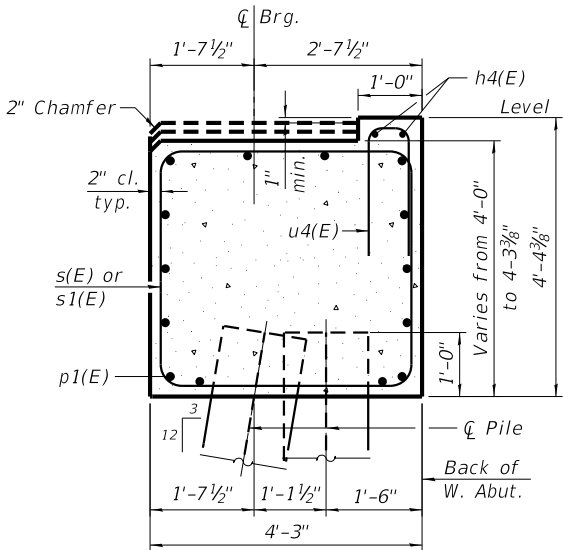
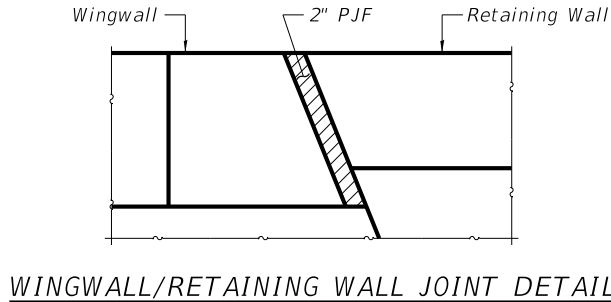
WEST ABUTMENT DETAILS
STRUCTURE NO. 101-0220

STRUCTURAL SHEET NO. 26 OF 48 SHEETS

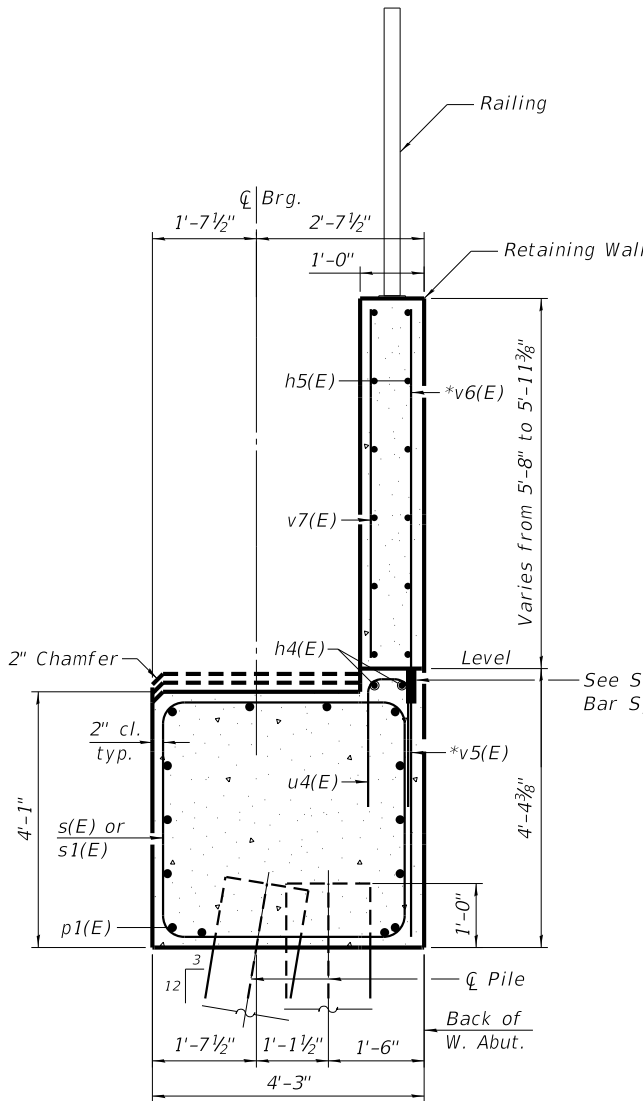
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	46
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

PILE DATA

Type: Steel HP Pile 16x121 w/Shoes
Nominal Required Bearing: 400 k
Factored Resistance Available: 220 k
Est. Length: 61'
No. Production Piles: 10
No. Test Piles: 1



SECTION A-A
At Rt. L's to Abutment
(Concrete Encasement
not shown for clarity)



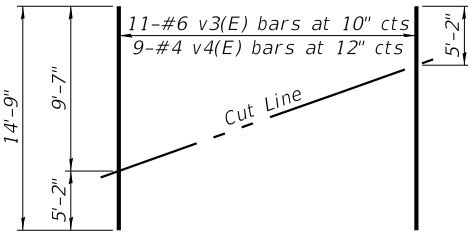
SECTION B-B
At Rt. L's to Abutment
(Concrete Encasement
not shown for clarity)

See Structural Sheet 36 for
Bar Splicer Assembly Detail

BILL OF MATERIAL

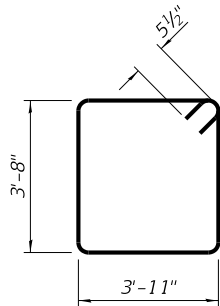
Bar	No.	Size	Length	Shape
h1(E)	14	#8	16'-9"	—
h2(E)	18	#4	9'-8"	—
h3(E)	12	#4	9'-2"	—
h4(E)	4	#4	26'-7"	—
h5(E)	14	#4	13'-2"	—
p1(E)	28	#7	28'-0"	—
s(E)	48	#5	16'-1"	□
s1(E)	2	#5	16'-7"	□
u4(E)	52	#4	3'-8"	—
u5(E)	10	#6	11'-8"	—
v2(E)	8	#6	9'-7"	—
v3(E)	11	#6	14'-9"	—
v4(E)	9	#4	14'-9"	—
v5(E)	17	#5	3'-9"	—
v6(E)	17	#5	5'-7"	—
v7(E)	14	#4	5'-5"	—
Structure Excavation			Cu. Yd.	82
Concrete Structures			Cu. Yd.	45.3
Concrete Encasement			Cu. Yd.	6.0
Reinforcement Bars, Epoxy Coated			Pound	4,420
Furnishing Steel Piles HP 14x89			Foot	610
Driving Piles			Foot	610
Test Pile Steel HP 14x89			Each	1
Pile Shoes			Each	11
Granular Backfill for Structures			Cu. Yd.	129
Geocomposite Wall Drain			Sq. Yd.	55
Bar Splicers			Each	17

Notes:
All exposed edges shall have standard 3/4" chamfers,
except as noted
For pile details, see structural sheet 34.
Pour steps monolithically with cap.
v5(E) and v6(E) bars are connected by Splicer
assembly. See structural sheet 36 for
additional information.

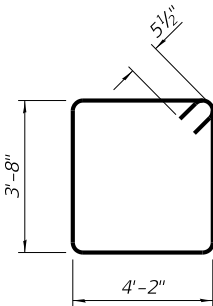


FIELD CUTTING DIAGRAM

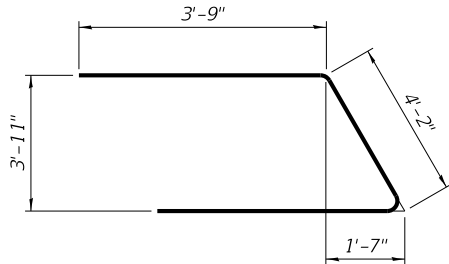
Order v3(E) & v4(E) bars full length. Cut as shown
and use remainder of bars in opposite wing.



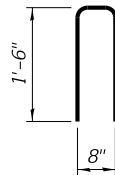
BARS s(E)



BARS s1(E)



BAR u5(E)



BAR u4(E)

REVISION	DATE	BY	REMARKS	DESIGNED	ATK
				DRAWN	DAL
				REVIEWED	EEL
				APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLETT HOFMANN
& ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

WEST ABUTMENT DETAILS
STRUCTURE NO. 101-0220

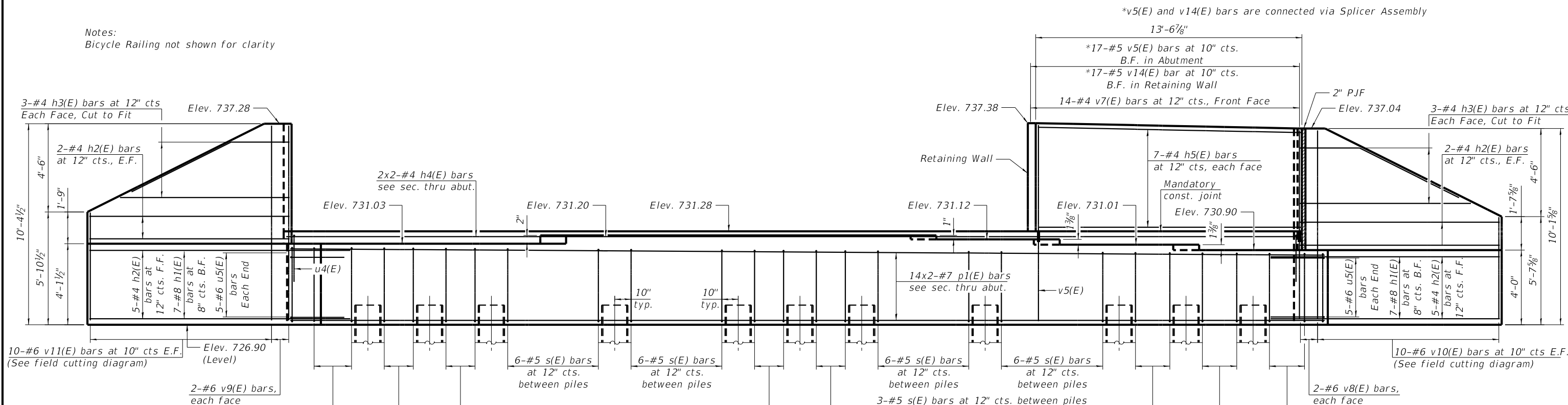
STRUCTURAL SHEET NO. 27 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	47
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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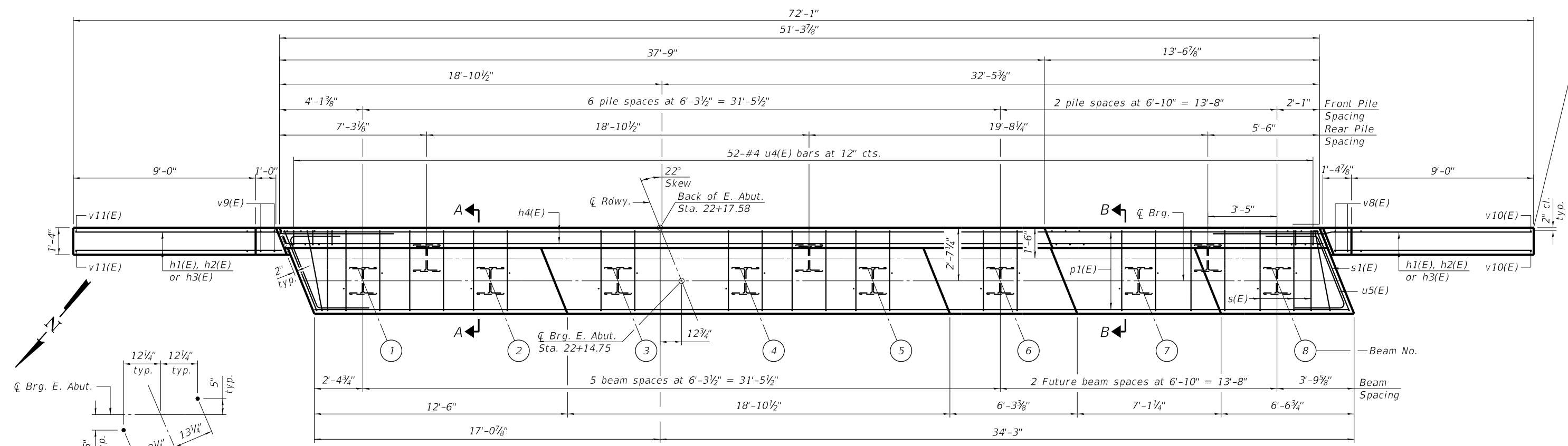
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Notes:
Bicycle Railing not shown for clarity



ELEVATION

Concrete Encasement not shown for clarity. See Structural Sheet 34 for details



PLAN

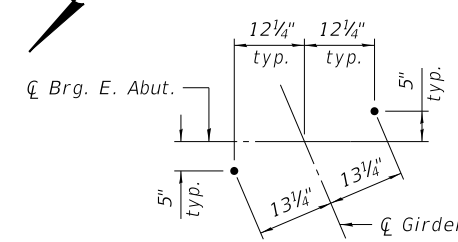
(All Dimensions Are Along Skew)

Concrete Encasement not shown for clarity. See Structural Sheet 34 for details

MINIMUM BAR LAP

#4 bar = 2'-2"
#7 bar = 4'-11"

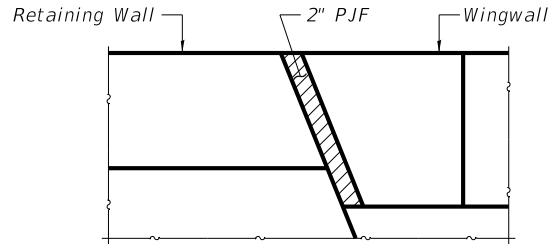
ANCHOR BOLT LAYOUT



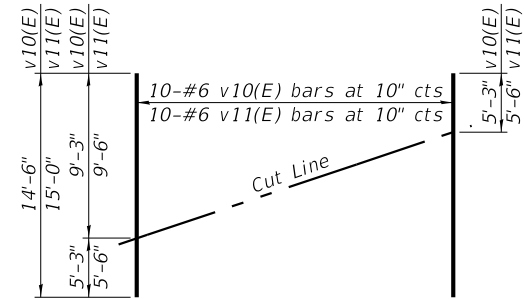
REVISION	DATE	BY	REMARKS	DESIGNED	ATK	WINNEBAGO COUNTY PRAIRIE HILL ROAD OVER ROCK RIVER STATION 20+00	 WILLET-HOFMANN ASSOCIATES INC. ENGINEERING ARCHITECTURE LAND SURVEYING 809 EAST 2ND STREET, DIXON, IL 61021-0367 T: 815-284-3351 DESIGN FIRM: #184-000918	EAST ABUTMENT DETAILS STRUCTURE NO. 101-0220	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
			DRAWN	DAL	9876				18-00655-00-BR	WINNEBAGO	89	48			
			REVIEWED	EEL	WHA# 1570D23				CONTRACT NO. 85764						
			APPROVED	MRL	STRUCTURAL SHEET NO. 28 OF 48 SHEETS										
														ILLINOIS FED. AID PROJECT	

PILE DATA

Type: Steel HP Pile 16x121 w/Shoes
Nominal Required Bearing: 400 k
Factored Resistance Available: 220 k
Est. Length: 66'
No. Production Piles: 10
No. Test Piles: 1

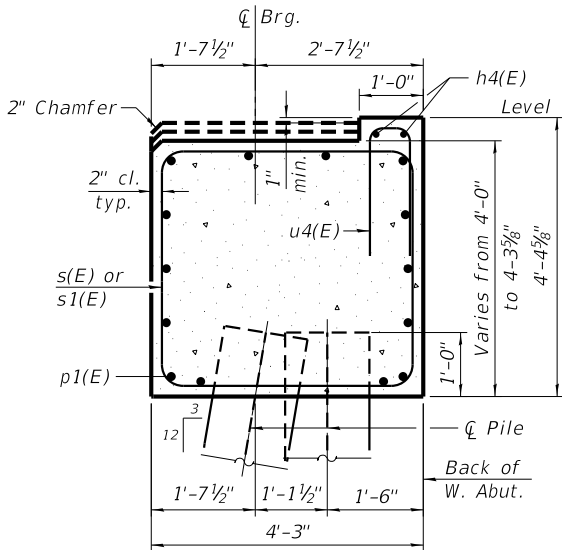


WINGWALL/RETAINING WALL JOINT DETAIL

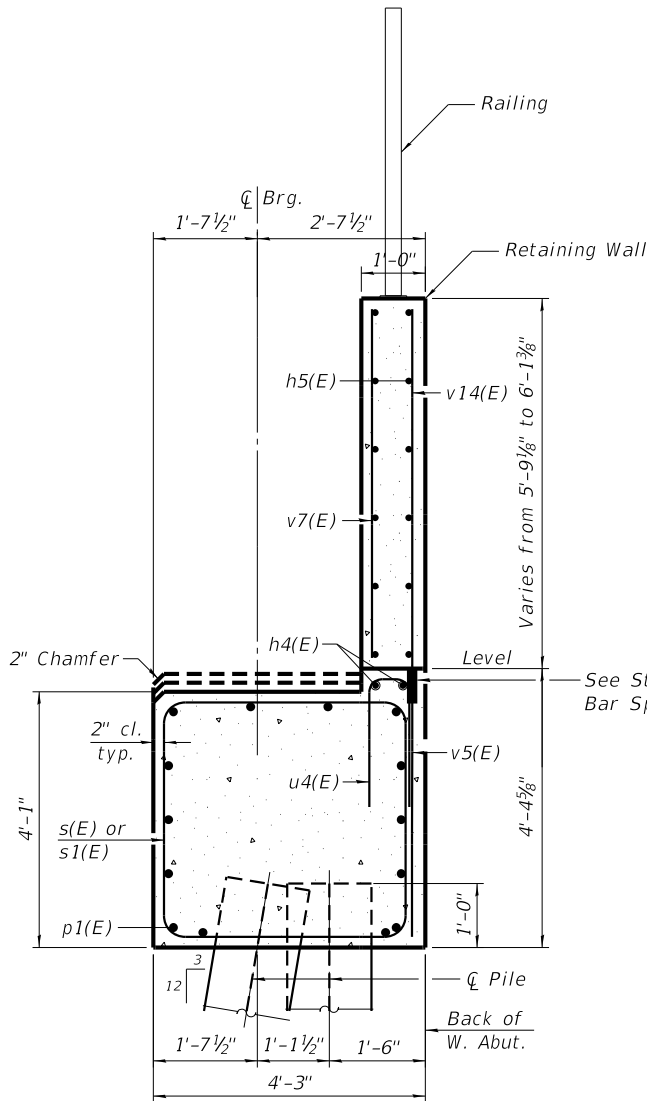


FIELD CUTTING DIAGRAM

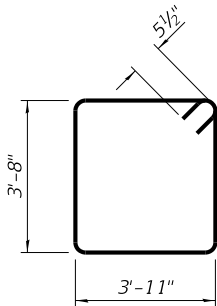
Order v10(E) & v11(E) bars full length. Cut as shown and use remainder of bars in opposite face.



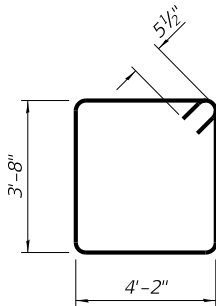
SECTION A-A
At Rt. L's to Abutment
(Concrete Encasement
not shown for clarity)



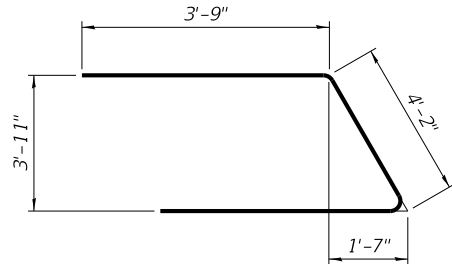
SECTION B-B
At Rt. L's to Abutment
(Concrete Encasement
not shown for clarity)



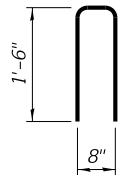
BARS s(E)



BARS s1(E)



BAR u5(E)



BAR u4(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	14	#8	16'-9"	
h2(E)	18	#4	9'-8"	
h3(E)	12	#4	9'-2"	
h4(E)	4	#4	26'-7"	
h5(E)	14	#4	13'-2"	
p1(E)	28	#7	28'-0"	
s(E)	48	#5	16'-1"	
s1(E)	2	#5	16'-7"	
u4(E)	52	#4	3'-8"	
u5(E)	10	#6	11'-8"	
v5(E)	17	#5	3'-9"	
v7(E)	14	#4	5'-5"	
v8(E)	4	#6	9'-8"	
v9(E)	4	#6	9'-11"	
v10(E)	10	#6	14'-6"	
v11(E)	10	#6	15'-0"	
v14(E)	17	#5	5'-9"	
Structure Excavation			Cu. Yd.	97
Concrete Structures			Cu. Yd.	45.7
Concrete Encasement			Cu. Yd.	6.0
Reinforcement Bars, Epoxy Coated			Pound	4,540
Furnishing Steel Piles HP 14x89			Foot	660
Driving Piles			Foot	660
Test Pile Steel HP 14x89			Each	1
Pile Shoes			Each	11
Granular Backfill for Structures			Cu. Yd.	135
Geocomposite Wall Drain			Sq. Yd.	56
Bar Splicers			Each	17

Notes:
All exposed edges shall have standard 3/4" chamfers, except as noted.
For pile details, see structural sheet 34.
Pour steps monolithically with cap.
v5(E) and v14(E) bars are connected by Splicer assembly. See structural sheet 36 for additional information.

REVISION	DATE	BY	REMARKS	DESIGNED	ATK
				DRAWN	DAL
				REVIEWED	EEL
				APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



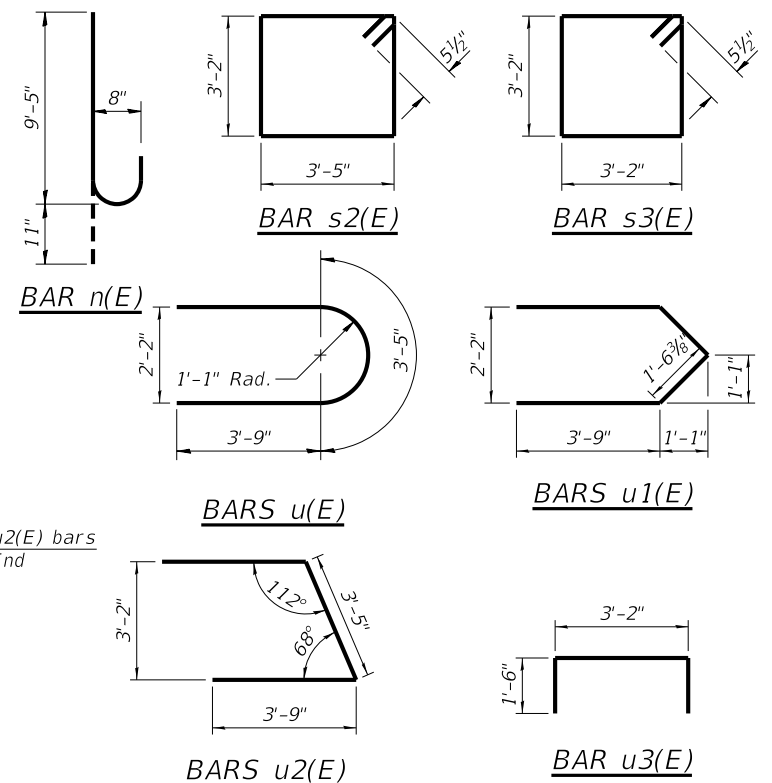
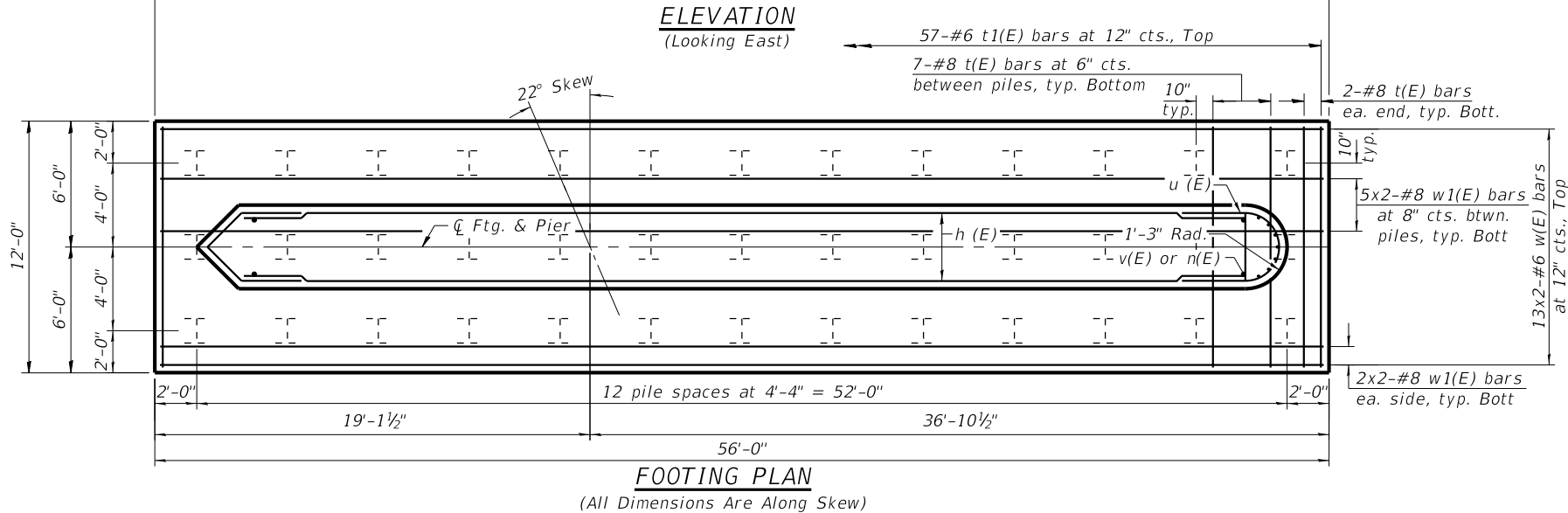
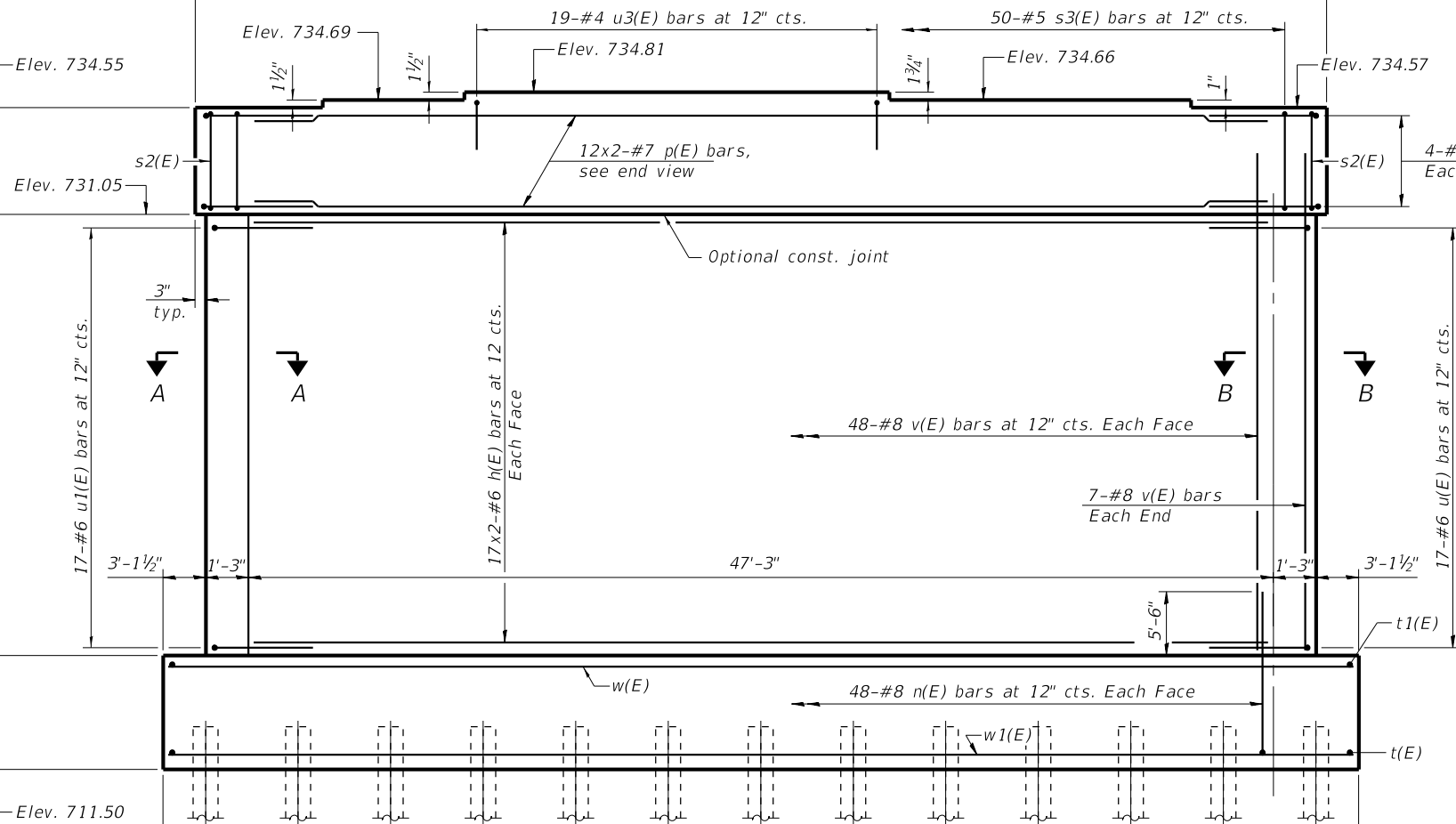
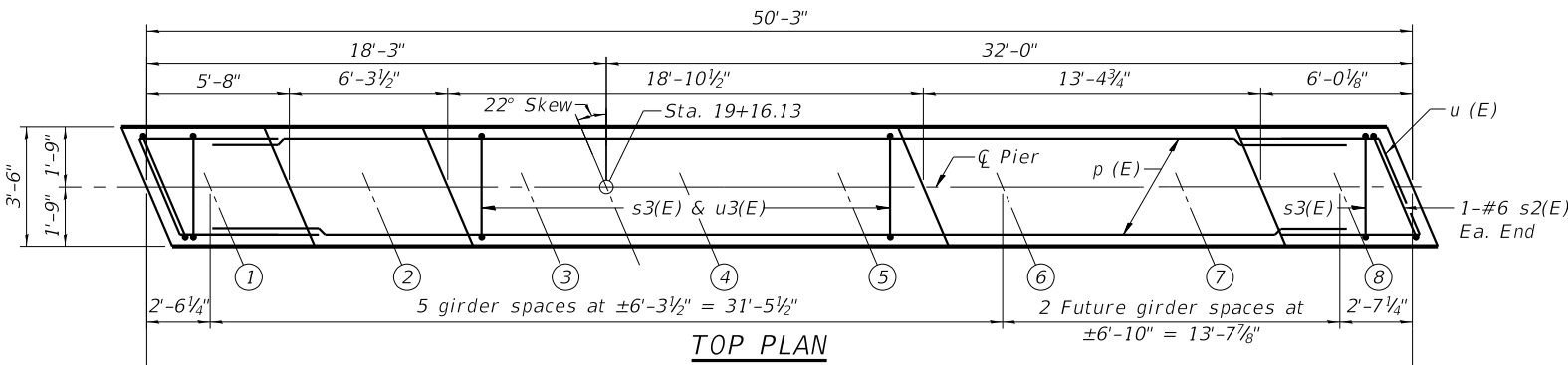
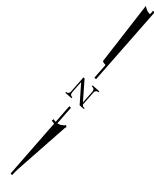
WILLETT HOFMANN
& ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

EAST ABUTMENT DETAILS
STRUCTURE NO. 101-0220

STRUCTURAL SHEET 29 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	49
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see structural sheet 34.
Concrete within 10 ft. of the outer edge of shoulder shall have all exposed surface areas treated with Concrete Sealer. A film-forming Concrete Sealer shall be used for horizontal surfaces. Concrete Sealer shall be incidental to Concrete Structures.
All exposed edges shall have standard $\frac{3}{4}$ " chamfers, except as noted.

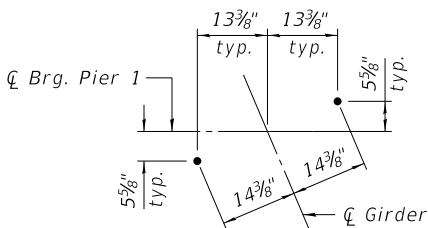


BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
h(E)	68	#6	25'-6"	—
n(E)	96	#8	10'-4"	┐
p(E)	24	#7	27'-5"	—
s2(E)	2	#5	14'-1"	□
s3(E)	50	#5	13'-7"	□
t(E)	88	#8	11'-9"	—
t1(E)	57	#6	11'-9"	—
u(E)	17	#6	10'-11"	U
u1(E)	17	#6	10'-7"	U
u2(E)	8	#6	10'-11"	U
u3(E)	19	#4	6'-2"	U
v(E)	110	#8	18'-4"	—
w(E)	26	#6	29'-9"	—
w1(E)	28	#8	30'-7"	—
Cofferdam Excavation			Cu. Yd.	498
Cofferdam (Type 2) (Location-1)			Each	1
Concrete Structures			Cu. Yd.	193.7
Seal Coat Concrete			Cu. Yd.	242.0
Reinforcement Bars, Epoxy Coated			Pound	20,700
Furnishing Steel Piles HP 14x89			Foot	2,294
Driving Piles			Foot	2,294
Test Pile, Steel HP 14x89			Each	2
Pile Shoes			Each	39

PILE DATA

Type: Steel HP Pile 16x121 w/Shoes
Nominal Required Bearing: 146 k
Factored Resistance Available: 265 k.
Est. Length: 62'
No. Production Piles: 37
No. Test Piles: 2

END VIEW
At Rt. L's to Pier Footing



ANCHOR BOLT LAYOUT

REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	EEL
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLETT HOFMANN
& ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

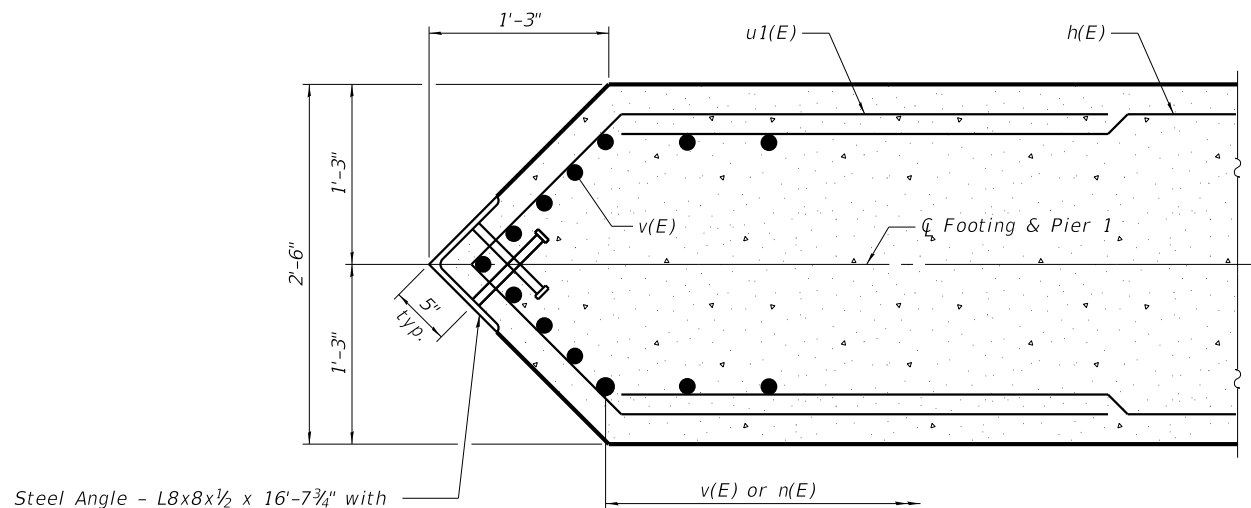
PIER #1 DETAILS
STRUCTURE NO. 101-0220

STRUCTURAL SHEET NO. 30 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	50
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

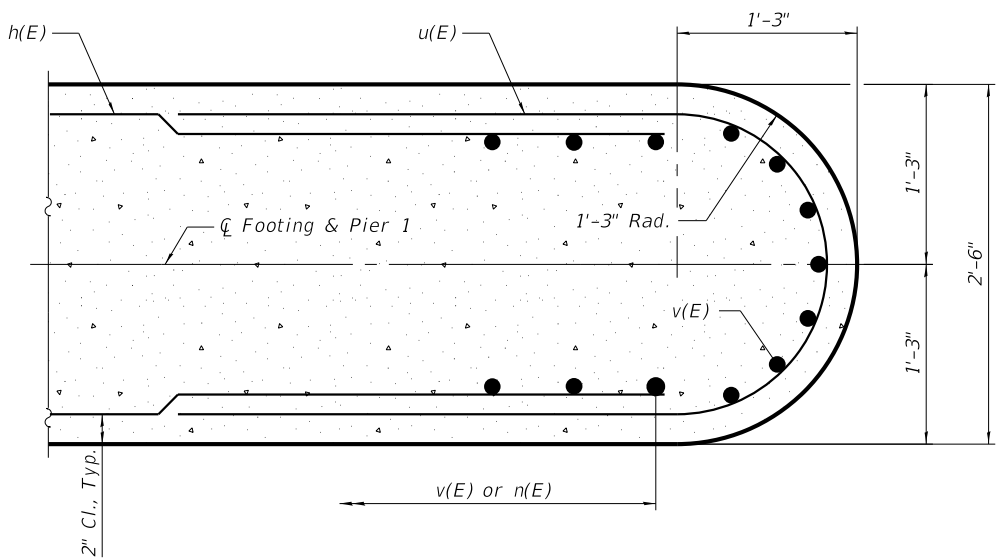
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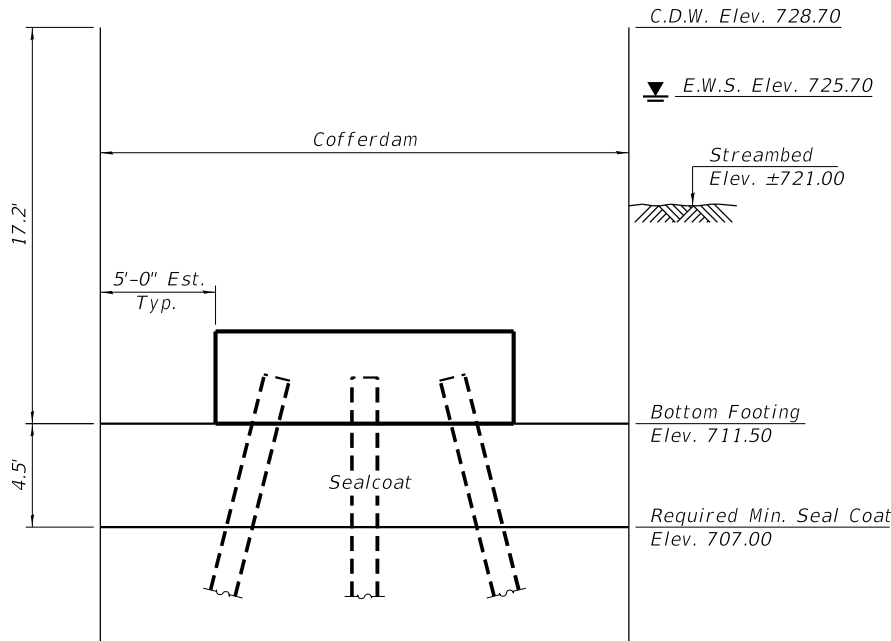


Steel Angle - L8x8x1/2 x 16'-7 3/4" with 8" long x 3/4" Ø shear studs at 12" alternating cts. welded to steel angle Steel Angle shall conform to the requirements of ASTM A709, Grade 50. All steel shall be galvanized according to AASHTO M111. Cost included with Furnishing and Erecting Structural Steel.

SECTION A-A



SECTION B-B



SEAL COAT SCHEMATIC

REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	EEL
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLETT HOFMANN
& ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

PIER #1 DETAILS
STRUCTURE NO. 101-0220

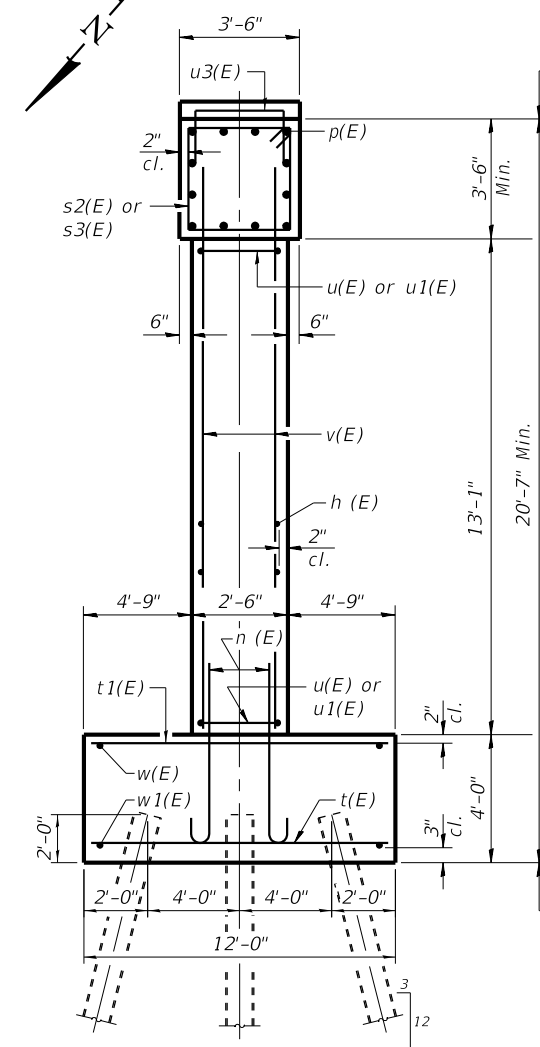
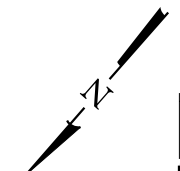
STRUCTURAL SHEET 31 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	51
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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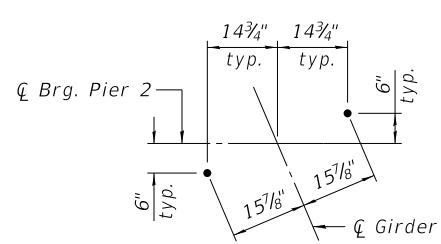
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Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see structural sheet 34.
Concrete within 10 ft. of the outer edge of shoulder shall have all exposed surface areas treated with Concrete Sealer. A film-forming Concrete Sealer shall be used for horizontal surfaces. Concrete Sealer shall be incidental to Concrete Structures
All exposed edges shall have standard 3#4" chamfers, except as noted.

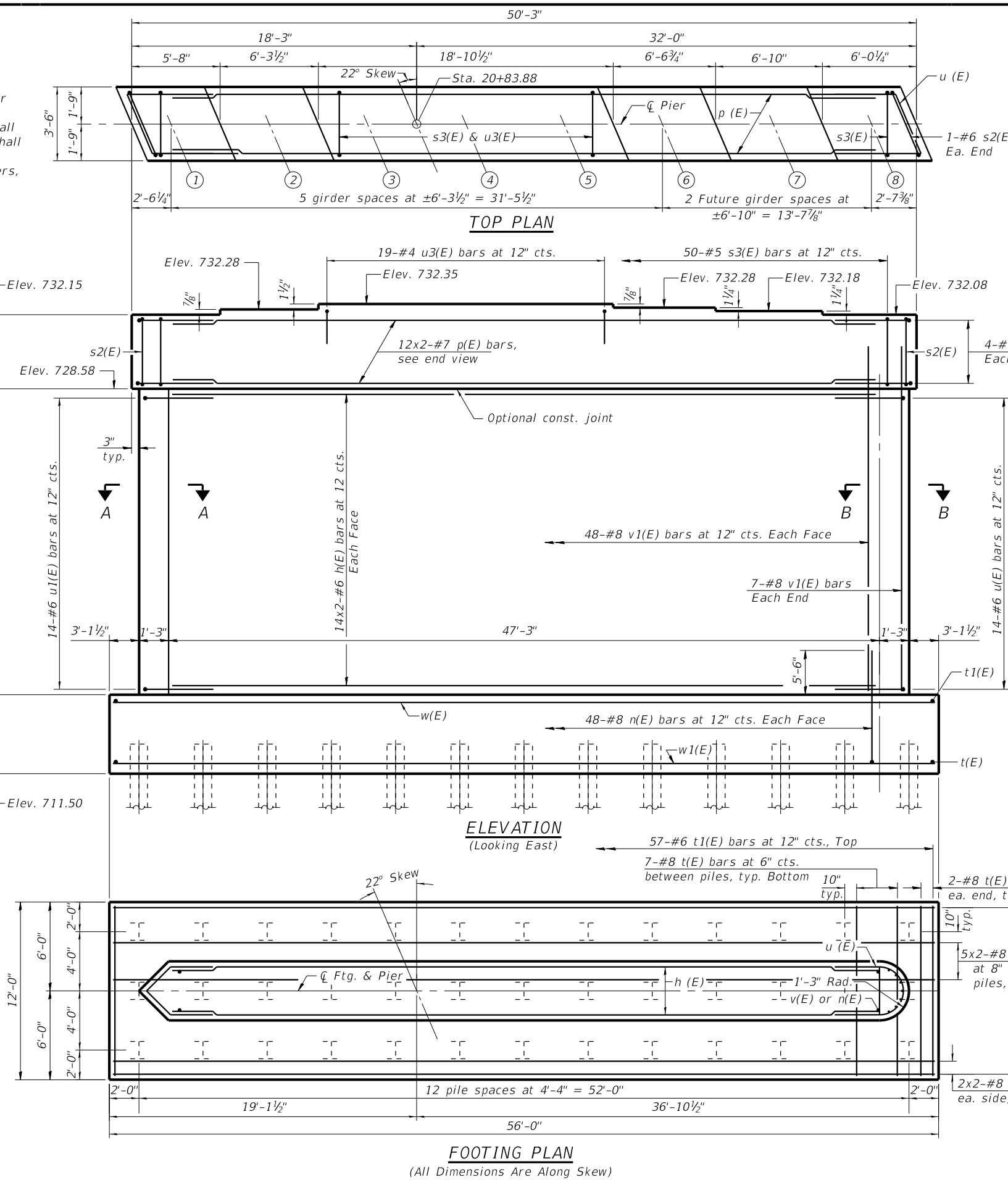


END VIEW

At Rt. L's to Pier Footing



ANCHOR BOLT LAYOUT

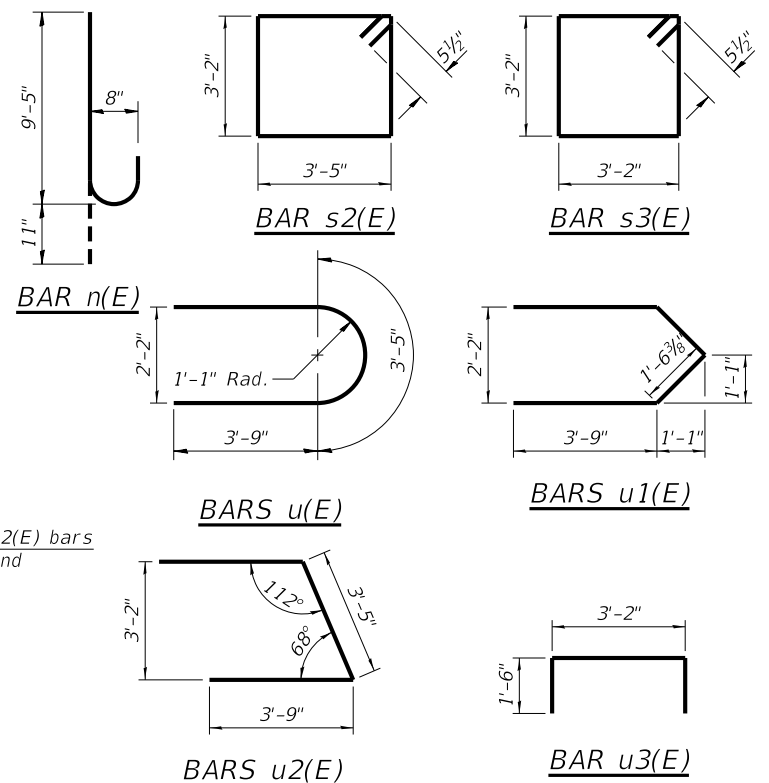


ELEVATION

(Looking East)

FOOTING PLAN

(All Dimensions Are Along Skew)



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	56	#6	25'-5"	—
n(E)	96	#8	10'-4"	U
p(E)	24	#7	27'-5"	—
s2(E)	2	#5	14'-1"	□
s3(E)	50	#5	13'-7"	□
t(E)	88	#8	11'-9"	—
t1(E)	57	#6	11'-9"	—
u(E)	14	#6	10'-11"	U
u1(E)	14	#6	10'-7"	U
u2(E)	8	#6	10'-11"	U
u3(E)	19	#4	6'-2"	U
v(E)	110	#8	15'-10"	—
w(E)	26	#6	29'-8"	—
w1(E)	28	#8	30'-7"	—

Cofferdam Excavation	Cu. Yd.	463
Cofferdam (Type 2)	Each	1
Concrete Structures	Cu. Yd.	182.7
Seal Coat Concrete	Cu. Yd.	242.0
Reinforcement Bars, Epoxy Coated	Pound	19,400
Furnishing Steel Piles HP 14x89	Foot	2,294
Driving Piles	Foot	2,294
Test Pile, Steel HP 14x89	Each	2
Pile Shoes	Each	39

PILE DATA

Type: Steel HP Pile 14x89 w/Shoes
Nominal Required Bearing: 146 k
Factored Resistance Available: 265 k.
Est. Length: 52'
No. Production Piles: 37
No. Test Piles: 2

REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	EEL
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

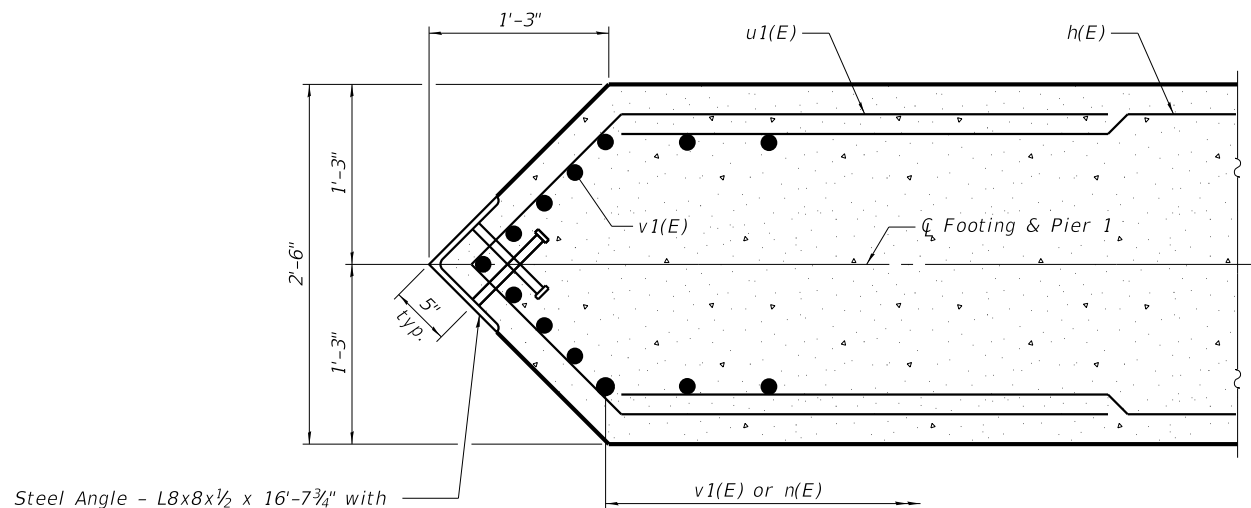


PIER #2 DETAILS
STRUCTURE NO. 101-0220
STRUCTURAL SHEET NO. 32 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	52
WHA# 1570023			CONTRACT NO. 85764	
ILLINOIS FED. AID PROJECT				

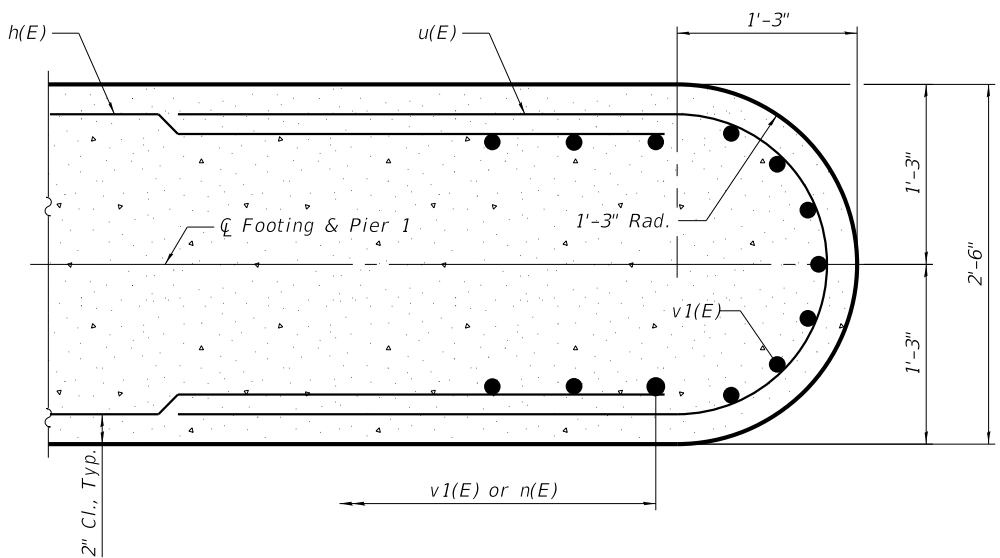
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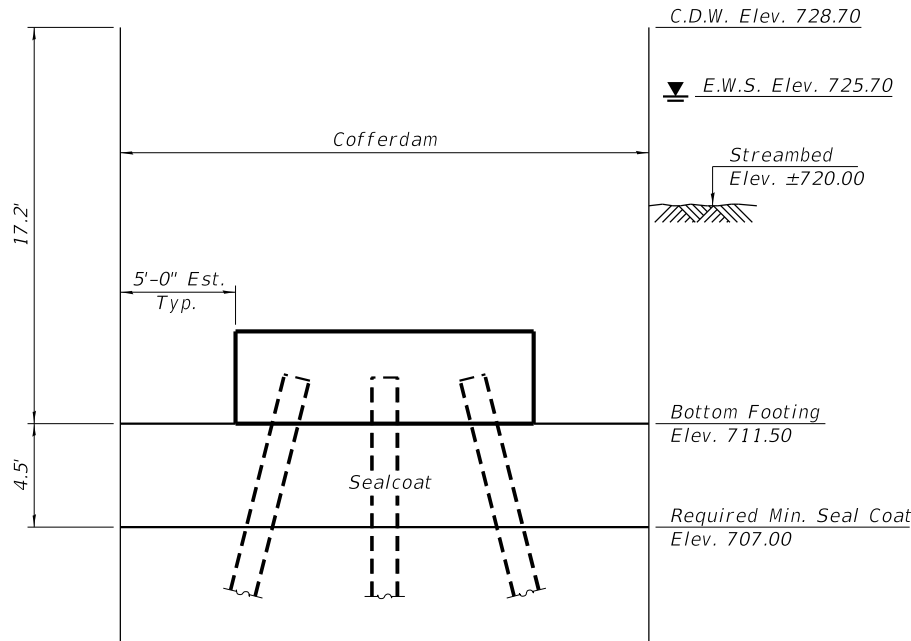


Steel Angle - L8x8x1/2 x 16'-7 3/4" with 8" long x 3/4" Ø shear studs at 12" alternating cts. welded to steel angle Steel Angle shall conform to the requirements of ASTM A709, Grade 50. All steel shall be galvanized according to AASHTO M111. Cost included with Furnishing and Erecting Structural Steel.

SECTION A-A



SECTION B-B



SEAL COAT SCHEMATIC

REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	EEL
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLETT HOFMANN
& ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

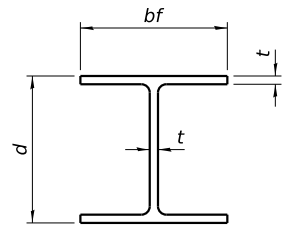
PIER #2 DETAILS
STRUCTURE NO. 101-0220

STRUCTURAL SHEET NO. 33 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	53
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

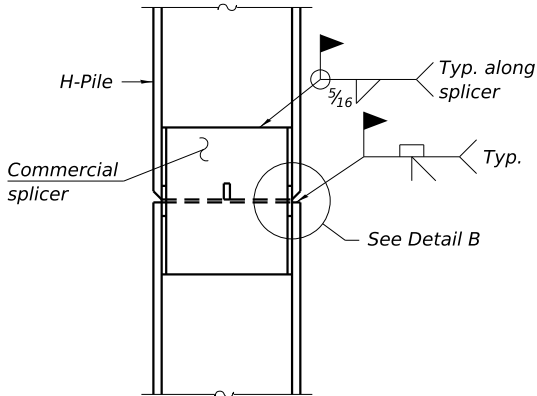
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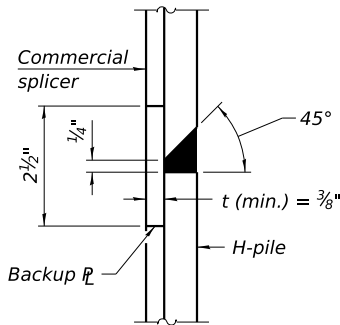


STEEL PILE TABLE

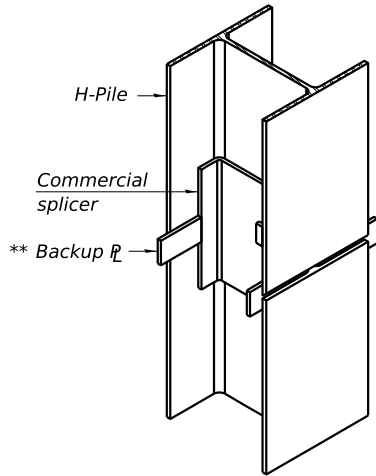
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 18x181	18	18	1	36"
x157	17¾"	17⅞"	⅞"	36"
x135	17½"	17¾"	¾"	36"
HP 16x183	16½"	16½"	1⅛"	36"
x162	16¼"	16⅜"	1"	36"
x141	16	16	⅞"	36"
x121	15¾"	15⅞"	¾"	36"
HP 14x117	14¼"	14⅞"	1⅜ ₁₆ "	30"
x102	14"	14¾"	1⅜ ₁₆ "	30"
x89	13⅞"	14¾"	⅝"	30"
x73	13⅝"	14⅝"	½"	30"
HP 12x84	12¼"	12¼"	1⅜ ₁₆ "	24"
x74	12⅝"	12¼"	⅝"	24"
x63	12"	12⅝"	½"	24"
x53	11¾"	12"	⅞ ₁₆ "	24"
HP 10x57	10"	10¼"	⅝ ₁₆ "	24"
x42	9¾"	10⅞"	⅞ ₁₆ "	24"
HP 8x36	8"	8⅞"	⅞ ₁₆ "	18"



ELEVATION

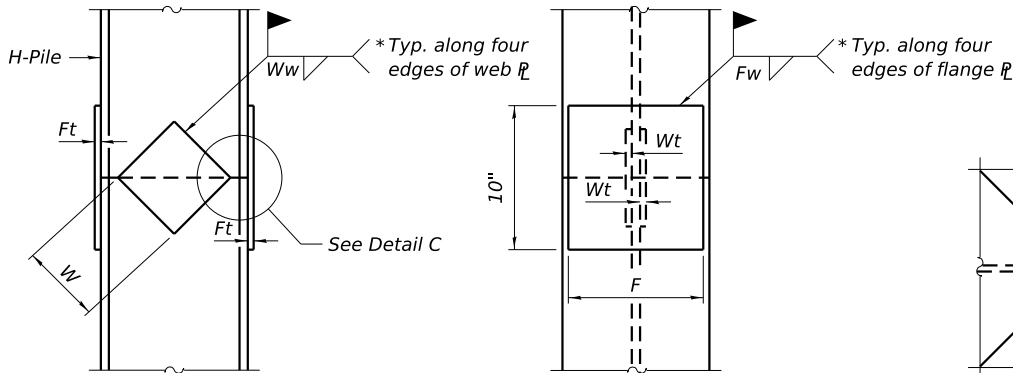


DETAIL B



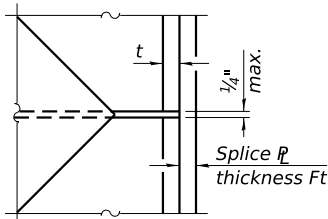
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



ELEVATION

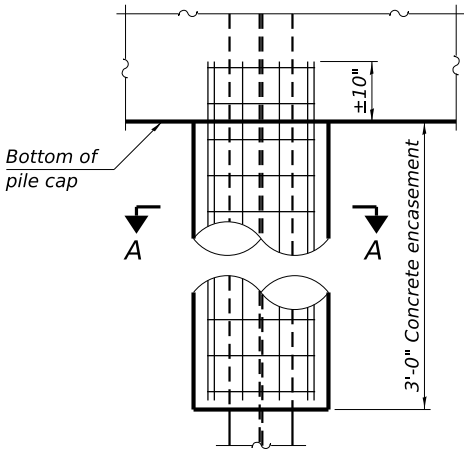
END VIEW



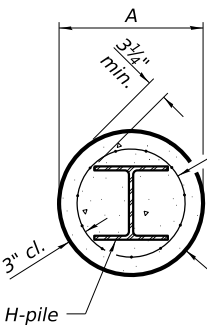
DETAIL C

Designation	F	Ft	Fw	W	Wt	Ww
HP 18x181	15½"	1½"	1"	9½"	⅞"	¾"
x157	15¼"	1¼"	1"	9½"	⅞"	¾"
x135	15¼"	1¼"	1"	9½"	⅞"	¾"
HP 16x183	13¾"	1½"	1"	8¼"	⅞"	¾"
x162	13½"	1½"	1"	8¼"	¾"	⅝"
x141	13½"	1¼"	⅞"	8¼"	¾"	⅝"
x121	13½"	1¼"	⅞"	8¼"	¾"	⅝"
HP 14x117	12½"	1¼"	⅞"	7¾"	⅝"	½"
x102	12½"	1"	¾"	7¾"	⅝"	½"
x89	12½"	⅞"	1⅜ ₁₆ "	7¾"	⅝"	½"
x73	12½"	¾"	⅝ ₁₆ "	7¾"	⅝"	½"
HP 12x84	10"	1"	1⅜ ₁₆ "	6½"	⅝"	½"
x74	10"	⅞"	1⅜ ₁₆ "	6½"	⅝"	½"
x63	10"	¾"	½"	6½"	½"	⅜"
x53	10"	¾"	½"	6½"	½"	⅜"
HP 10x57	8"	⅞"	⅝ ₁₆ "	5¼"	½"	⅜"
x42	8"	¾"	⅝ ₁₆ "	5¼"	½"	⅜"
HP 8x36	6¾"	⅝"	⅞ ₁₆ "	4"	½"	⅜"

WELDED PLATE FIELD SPLICE



ELEVATION



SECTION A-A

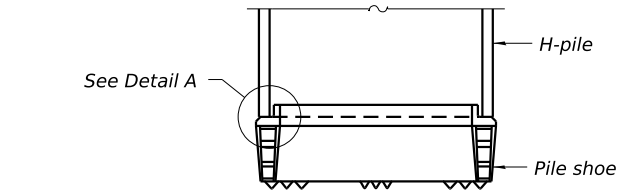
Welded wire fabric 6 x 6- W4.0 x W4.0 weighing 58#/100 sq. ft. Bend as required to fit into wall. Reinforcement for encasements at abutments is included with Concrete Encasement according to Article 503.13 of the Standard Specifications.

Forms for encasement may be omitted when soil conditions permit.

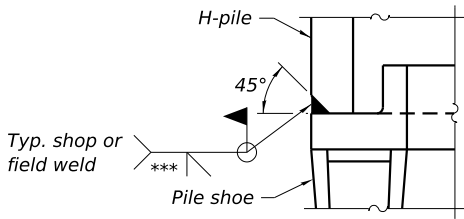
INDIVIDUAL PILE
CONCRETE ENCASEMENT
(Abutments)

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds ¼" from end of web and/or each flange.
- ** Remove portions of backup PL's that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (⅞₁₆" min.).



ELEVATION



DETAIL A

SHOE ATTACHMENT

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

REVISION	DATE	BY	REMARKS	DESIGNED	ATK
				DRAWN	DAL
				REVIEWED	EEL
				APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



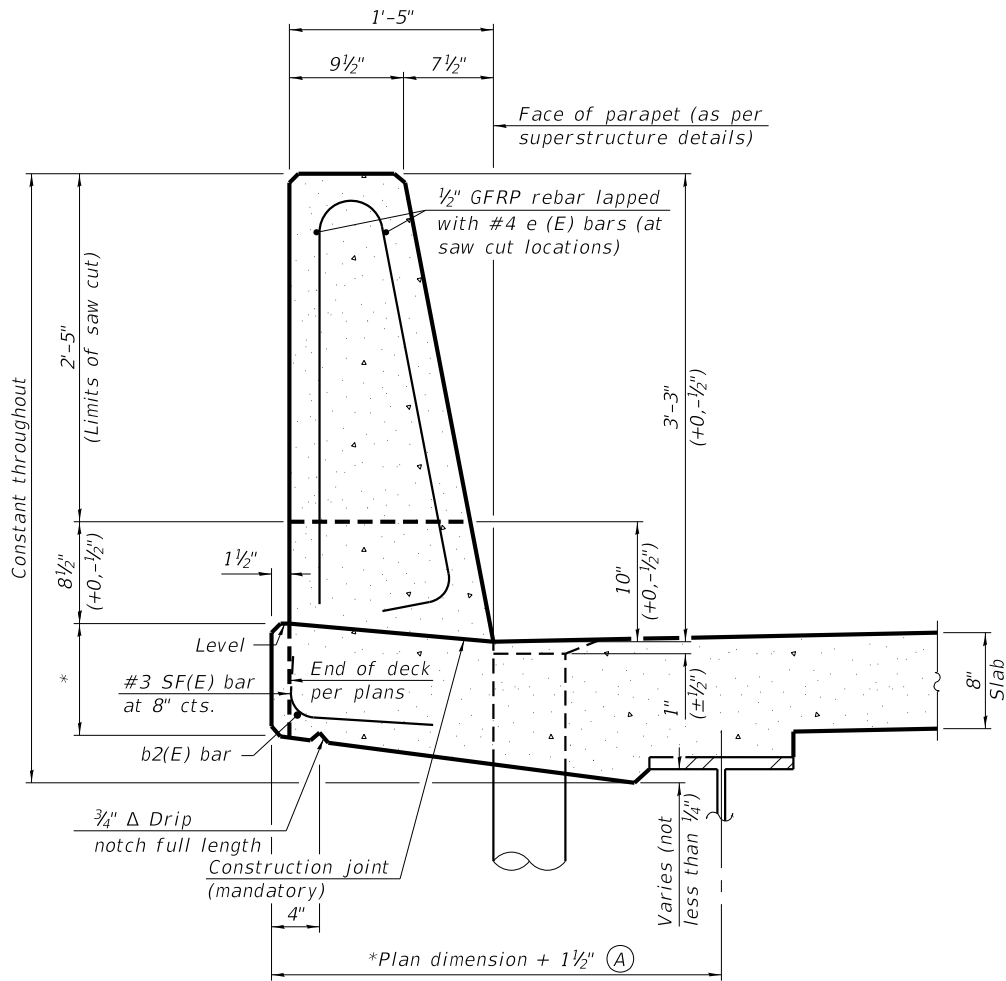
WILLET HOFMANN
& ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

HP PILE DETAILS
STRUCTURE NO. 101-0220
STRUCTURAL SHEET NO. 34 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	54
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS		FED. AID PROJECT		

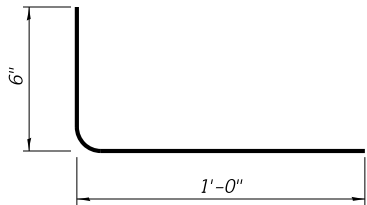
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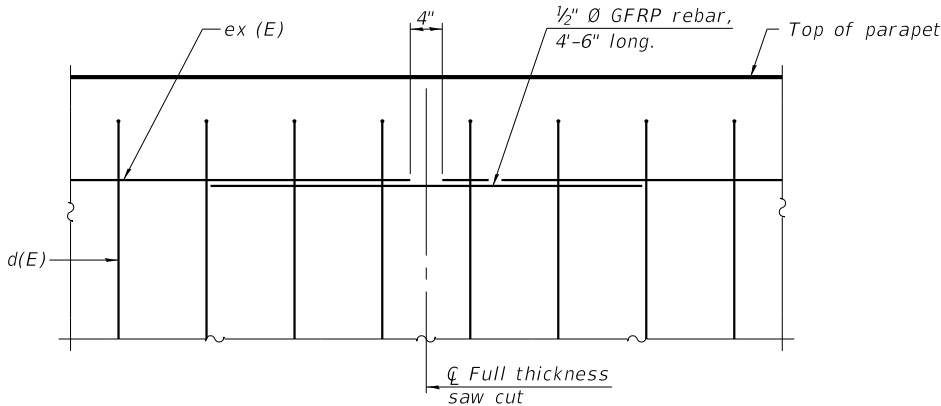


**39" CONSTANT-SLOPE
PARAPET SECTION**
(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)

*See Superstructure Details.



SF(E) BAR



GFRP REBAR STIFFENING DETAIL
(Place as shown in parapet section at each parapet joint location.)

Notes:
All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.00348 cu. yds./ft. for 39" and 44" parapets.
Place full depth aluminum sheets as shown on superstructure details.
Replace all cork joint filler locations with a full thickness saw cut.
Steel superstructure shown. Other superstructure types similar.

REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	EEL
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



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& ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

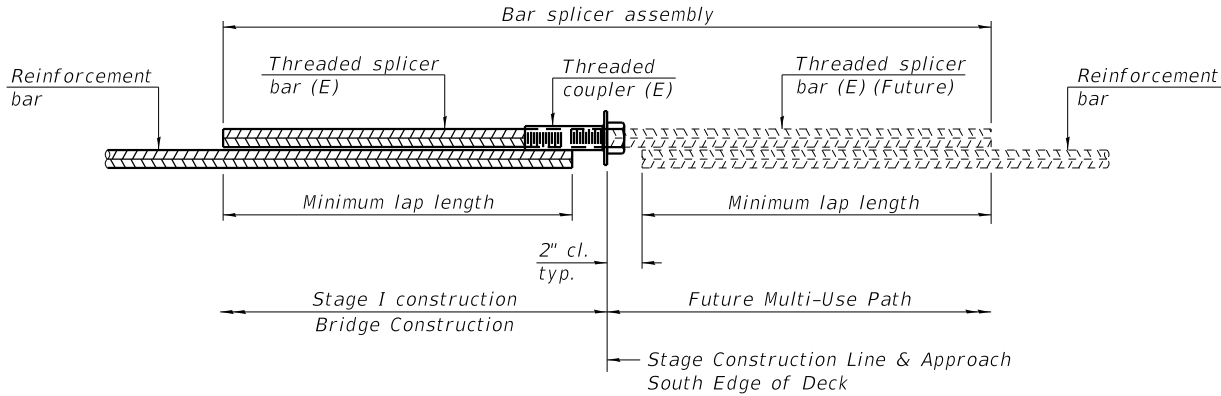
CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 101-0220
STRUCTURAL SHEET NO. 35 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	55
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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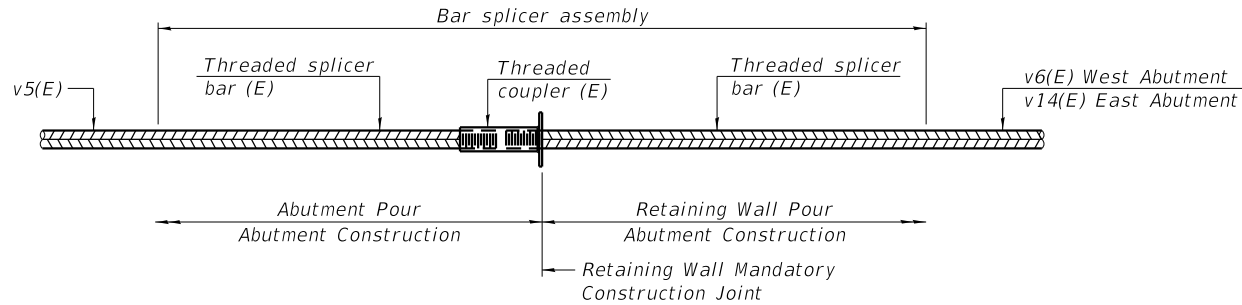
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

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

After form removal replace template bolt in bar splicer.
Epoxy coat template bolt.

Location	Bar size	No. assemblies required	Minimum lap length
Top of Bridge Deck	#5	741	3'-10"
Bottom of Bridge Deck	#5	520	3'-10"
Top of Approach	#5	100	3'-10"
Bottom of Approach	#8	132	5'-6"

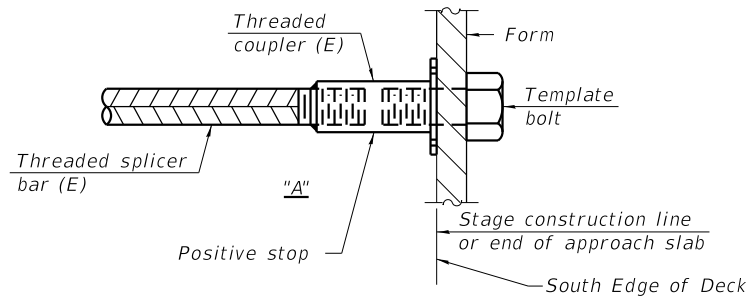


STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

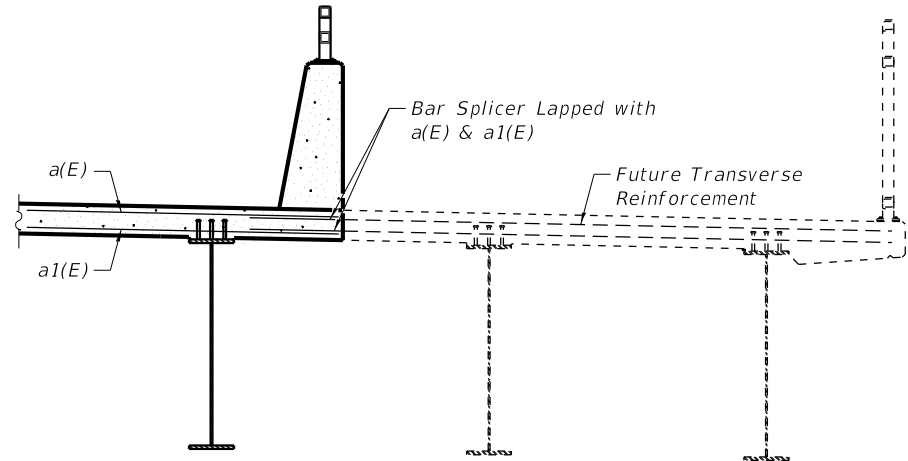
Threaded splicer bar length = min. lap length + 2" + thread length

Location	Bar size	No. assemblies required	Minimum lap length
W. Abut. Retaining Wall	#5	17	N/A
E. Abut. Retaining Wall	#5	17	N/A



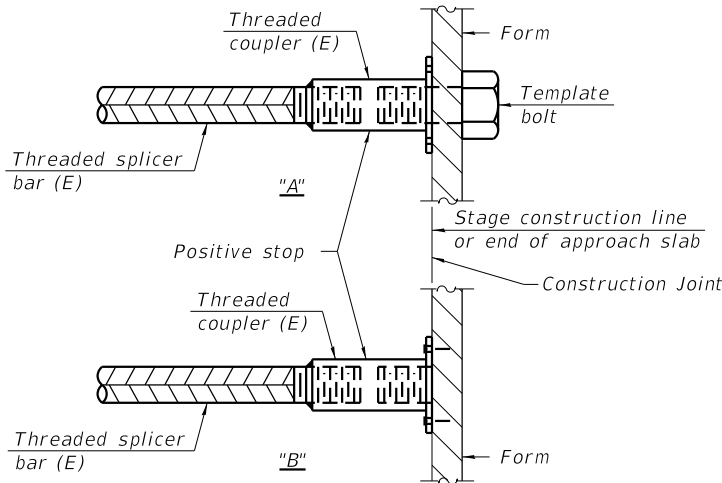
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.



SECTION THRU FUTURE SHARED USE PATH

(Only relevant bars shown for clarity)



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.

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 approved list of bar splicer assemblies for alternatives.

REVISION	DATE	BY	REMARKS	DESIGNED	ATK
				DRAWN	DAL
				REVIEWED	EEL
				APPROVED	MRL

WINNEBAGO COUNTY PRAIRIE HILL ROAD OVER ROCK RIVER STATION 20+00
--

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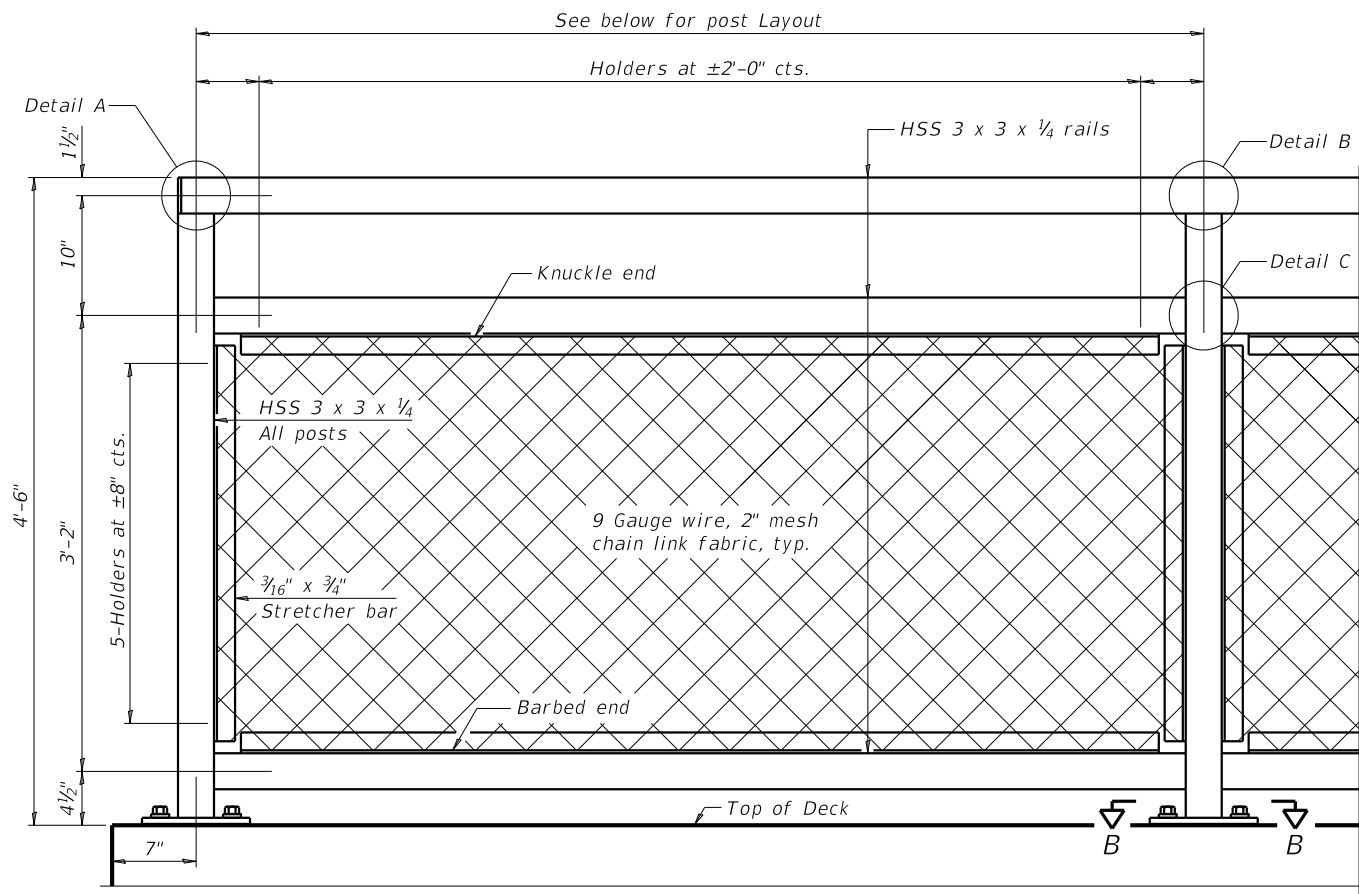
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 101-0220
STRUCTURAL SHEET NO. 36 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	56
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

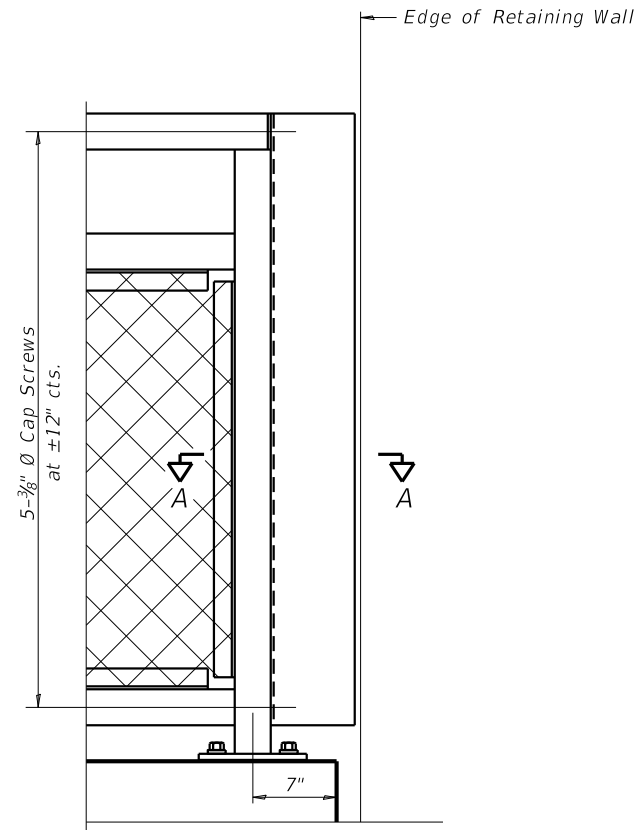
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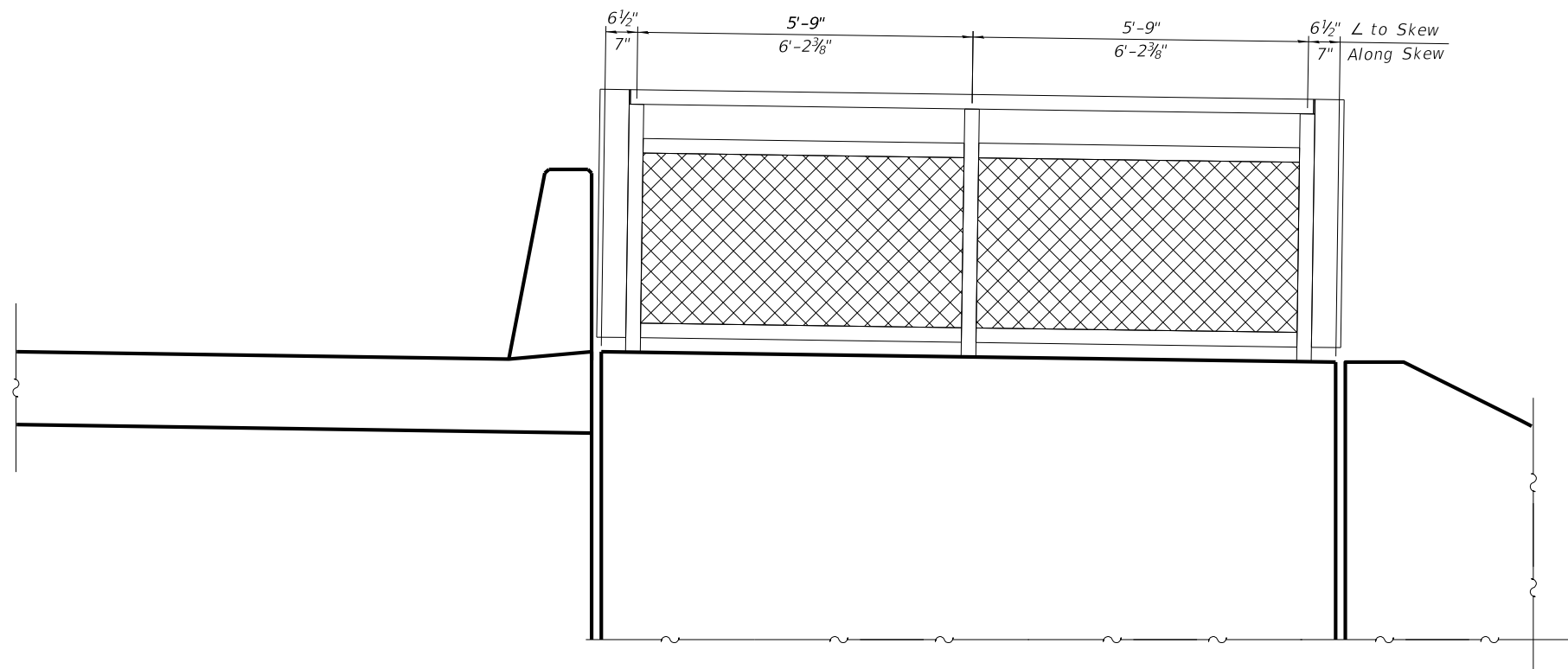
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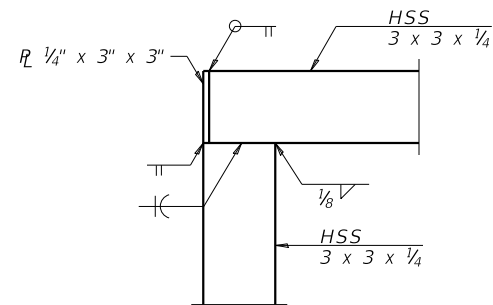
ELEVATION BICYCLE RAILING
(Inside face)



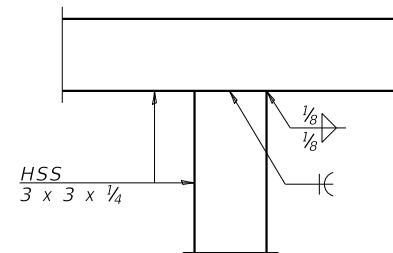
AT EXPANSION JOINT



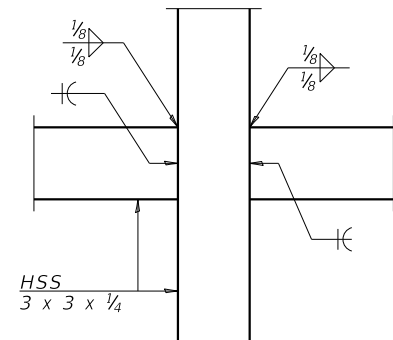
ELEVATION VIEW ABUTMENT



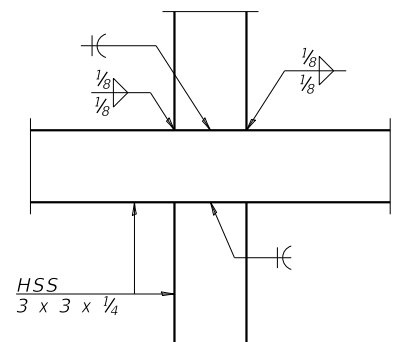
DETAIL A



DETAIL B



DETAIL C



DETAIL D

RAILING CRITERIA

MASH 2016 Test Level	4
Parapet Railing Weight (plf)	25
Bicycle Railing Weight (plf)	50
Max Post Spacing	10'-0"

R-29 9-1-2022

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLET HOFMANN
& ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

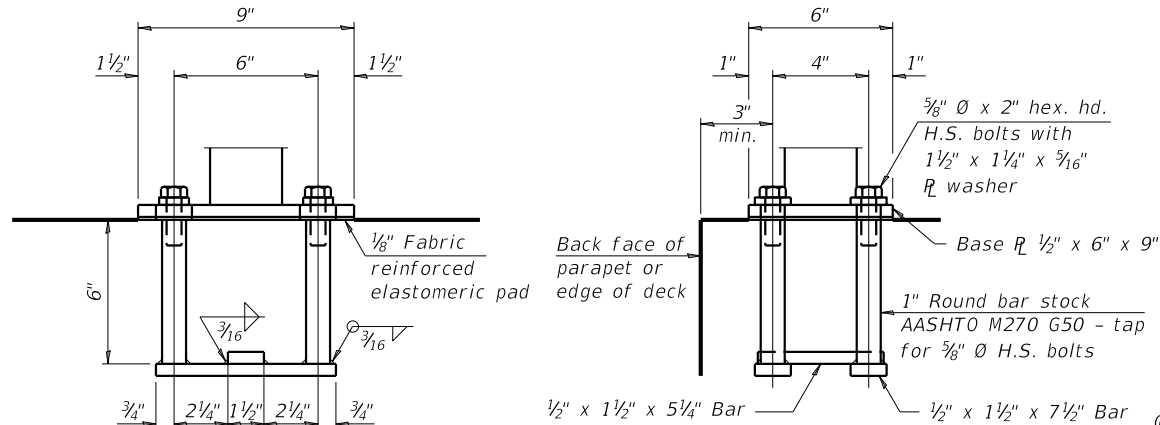
BICYCLE RAILING
STRUCTURE NO. 101-0220

STRUCTURAL SHEET NO. 37 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	57
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

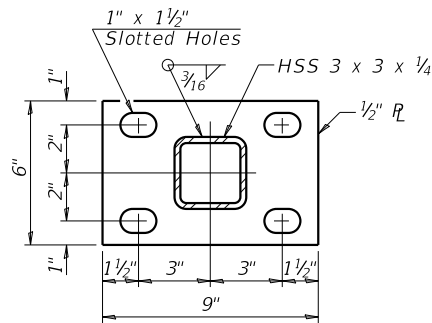
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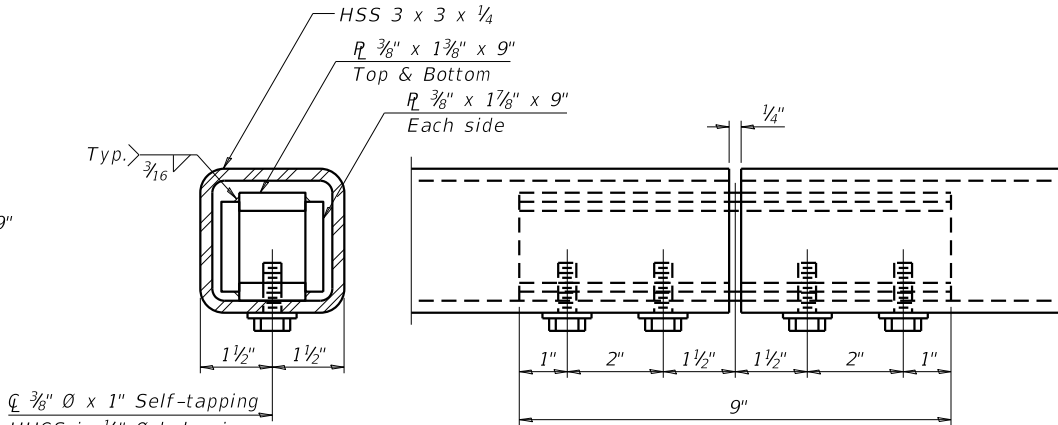


ANCHORAGE ASSEMBLY

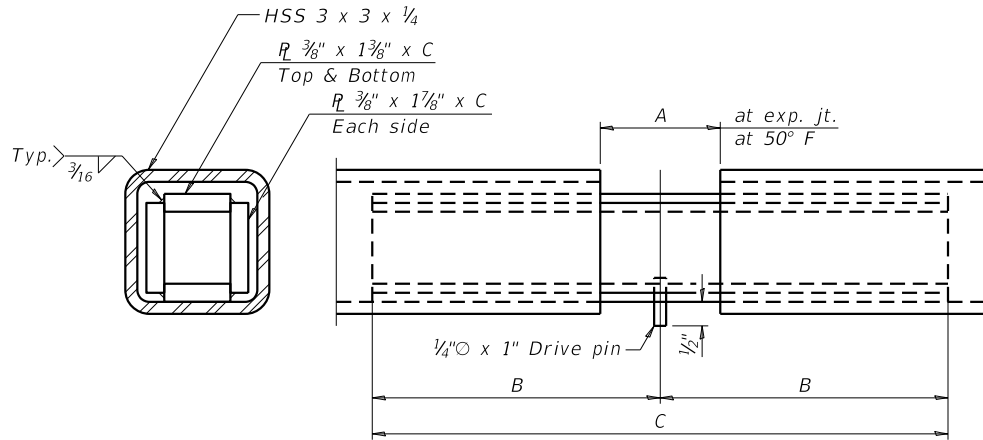
The Bicycle Railing fasteners for end posts near expansion joints may need to be installed prior to installing the bent plates. In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



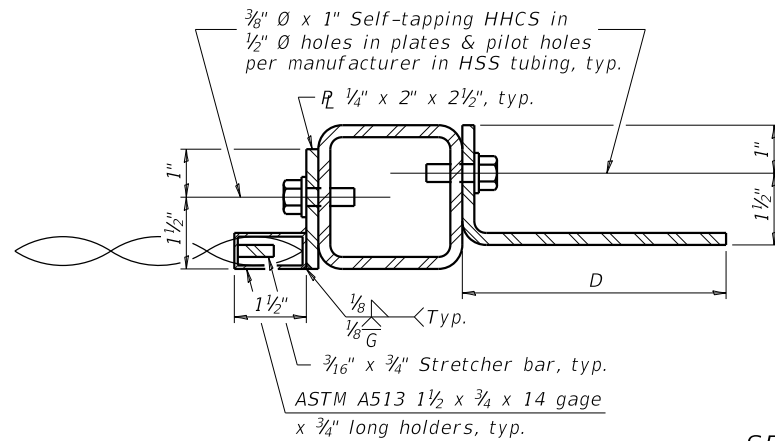
SECTION B-B



MATERIAL SPLICE



EXPANSION SPLICE



SECTION A-A

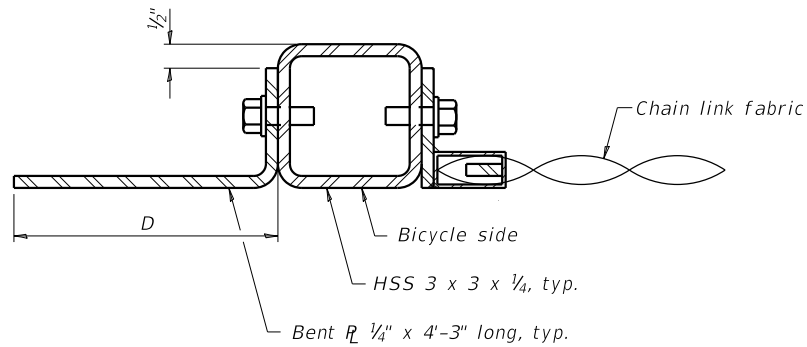


TABLE OF DIMENSIONS

Location	T	A	B	C	D	E
Over Strip Seal Jt.	≤4"	2 1/2"	1'-2"	2'-4"	7 1/4"	7"
Over Finger or Modular Jt.	≤9 1/2"	5 1/2"	1'-7 3/4"	3'-3 1/2"		
Over Finger or Modular Jt.	≤15"	8 1/4"	2'-1 1/4"	4'-2 1/2"		

T = ; total movement based on total temperature range from -20°F to 120°F along centerline of roadway at expansion joint.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	28

R-29 9-1-2022

REVISION	DATE	BY	REMARKS
DESIGNED	ATK		
DRAWN	DAL		
REVIEWED	EEL		
APPROVED	MRL		

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLETT HOFMANN
& ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

BICYCLE RAILING
STRUCTURE NO. 101-0220
STRUCTURAL SHEET NO. 38 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	58
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 8/3/98

ROUTE FA 354 DESCRIPTION P92-050-94 Prairie Hill Road over Rock River LOGGED BY C. Jenkins

SECTION 12 LOCATION Rockton Twp. - SE 12, SEC., TWP. 46N, RNG. 1E

COUNTY Winnebago DRILLING METHOD HAMMER TYPE

STRUCT. NO.	101-0118	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	724.00	DEPTH	BLOW	UCS	MOIST
Station	65+47.50	H	S	Qu	T	Stream Bed Elev.		ft	H	S	Qu
BORING NO.	B-1					Groundwater Elev.:					
Station	14+90					First Encounter					
Offset	6.50R L1 CL					Upon Completion	Wash				
Ground Surface Elev.	737.80	ft	(ft)	(/6")	(tsf)	After	Hrs.	ft	(ft)	(/6")	(tsf)
AIR						DENSE tan well-cemented SAND & GRAVEL		9			
								17			
								26			
								715.80			
						HARD tan SANDY LOAM TILL with GRAVEL		27			
								48	4.5	8.0	
								46	P		
								713.30			
						DENSE tan well-cemented SAND & river GRAVEL		25			
								21			
								711.30			
						DENSE orange, coarse SAND & river GRAVEL		14			
								15			
								708.80			
								21			
						VERY DENSE orange medium grained SAND & GRAVEL		27			
								46			
								706.30			
								50			
						began wash		26			
bottom of stream 721.4 Muck						VERY DENSE orange fine to medium grained SAND		100/10			
								PEN			
								703.80			
						VERY DENSE tan very fine grained SAND		100/9			
								PEN			
								701.80			
						End of Boring					
VERY LOOSE tan SAND with some GRAVEL											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 2

Date 8/10/98

ROUTE FA 354 DESCRIPTION P92-050-94 Prairie Hill Road over Rock River LOGGED BY C. Jenkins

SECTION 12 LOCATION Rockton Twp. - SE 12, SEC., TWP. 46N, RNG. 1E

COUNTY Winnebago DRILLING METHOD HAMMER TYPE

STRUCT. NO.	101-0118	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	725.70	DEPTH	BLOW	UCS	MOIST
Station	65+47.50	H	S	Qu	T	Stream Bed Elev.		ft	H	S	Qu
BORING NO.	B-2					Groundwater Elev.:					
Station	12+10					First Encounter					
Offset	5.50R R1 CL					Upon Completion	Wash				
Ground Surface Elev.	741.70	ft	(ft)	(/6")	(tsf)	After	Hrs.	ft	(ft)	(/6")	(tsf)
AIR 16'						MEDIUM tan river SAND & GRAVEL		8			
								13			
								720.20			
								15			
						VERY DENSE brown/orange SAND & GRAVEL with LIMESTONE fragments		13			
								27			
								717.20			
								31			
						VERY STIFF mauve SILTY CLAY		13			
								7	2.7	24.0	
								715.20			
								10	B		
						HARD mauve SILTY CLAY		10			
								11	4.3	23.0	
								712.70			
								16	B		
						Same as above		5			
								9	4.5	23.0	
								710.20			
								13	B		
water						VERY STIFF mauve SILTY CLAY		7			
								8	2.5	23.0	
								707.70			
								10	B		
						Same as above		6			
								9	2.5	25.0	
								705.20			
								11	B		
						Same as above		6			
								10	2.7	25.0	
river bottom 725.1 LOOSE dirty brown river SAND & GRAVEL								724.20			
								3			
								2			
								722.70			
								6			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 2 of 2

Date 8/10/98

ROUTE FA 354 DESCRIPTION P92-050-94 Prairie Hill Road over Rock River LOGGED BY C. Jenkins

SECTION 12 LOCATION Rockton Twp. - SE 12, SEC., TWP. 46N, RNG. 1E

COUNTY Winnebago DRILLING METHOD HAMMER TYPE

STRUCT. NO.	101-0118	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	725.70	DEPTH	BLOW	UCS	MOIST
Station	65+47.50	H	S	Qu	T	Stream Bed Elev.		ft	H	S	Qu
BORING NO.	B-2					Groundwater Elev.:					
Station	12+10					First Encounter					
Offset	5.50R R1 CL					Upon Completion	Wash				
Ground Surface Elev.	741.70	ft	(ft)	(/6")	(tsf)	After	Hrs.	ft	(ft)	(/6")	(tsf)
STIFF tan SANDY LOAM TILL						MEDIUM tan SAND & GRAVEL		9			
								14	1.2	9.0	
								21	S		
								699.70			
								15			
								680.20			
						VERY DENSE tan well-cemented SAND & GRAVEL		17			
								25			
								697.70			
								29			
begin wash DENSE tan well-cemented SAND & GRAVEL						MEDIUM tan fine grained SAND		5			
								8			
								677.70			
								9			
						VERY DENSE tan fine grained SAND with a SILT lens		21			
								31			
								675.20			
						End of Boring		35			
MEDIUM tan well-cemented SAND & GRAVEL								3			
								9			
								692.70			
								13			
								10			
								690.20			
								13			
								15			
								10			
								17			
DENSE well-cemented SAND & GRAVEL								22			
								687.70			
								20			
								25			
								685.20			
								23			
								10			
								15			
								682.70			
								23			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

REVISION	DATE	BY	REMARKS	DESIGNED	ATK
				DRAWN	DAL
				REVIEWED	EEL
				APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLET-HOFMANN
ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

BORING LOGS
STRUCTURE NO. 101-0220

STRUCTURAL SHEET NO. 39 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	59
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 8/11/08

ROUTE FA 354 DESCRIPTION P92-050-94 Prairie Hill Road over Rock River LOGGED BY C. Jenkins

SECTION 12 LOCATION Rockton Twp. - SE 12, SEC., TWP. 46N, RNG. 1E

COUNTY Winnebago DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. 101-0118
Station 65+47.50

BORING NO. B-4
Station 13+92
Offset 6.00 ft RL CL
Ground Surface Elev. 738.90 ft

D E P T H S	B L O W S	U C S	M O I S T	Surface Water Elev. <u>725.90</u> ft	D E P T H	B L O W S	U C S	M O I S T
(ft)	(/6")	(tsf)	(%)	Stream Bed Elev. _____ ft	(ft)	(/6")	(tsf)	(%)
				Groundwater Elev.: _____ ft				
				First Encounter _____ ft				
				Upon Completion _____ ft				
				After _____ Hrs. _____ ft				
				DENSE tan/gray well-cemented SAND & GRAVEL	7			
					8			
					24			
					718.90			
				HARD tan SANDY LOAM TILL with GRAVEL lens	100/10.5"			
					PEN	4.6	7.0	
						S		
					714.40			
				VERY DENSE tan well-cemented SAND & GRAVEL	100/11.5"			
					PEN			
					712.40			
				Same as above	39			
					100/9"			
					PEN			
					709.90			
				Same as above	30			
					26			
					28			
					38			
					707.40			
				Same as above	22			
					31			
					36			
					704.90			
				Same as above	35			
					25			
					31			
					28			
					702.40			
				VERY DENSE tan orange river SAND & GRAVEL	31			
					100/10"			
					PEN			
					699.90			
				End of Boring				
					40			

AIR 13'

Water to 17.5'

river bottom 721.4

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

REVISION	DATE	BY	REMARKS	DESIGNED	ATK	WINNEBAGO COUNTY PRAIRIE HILL ROAD OVER ROCK RIVER STATION 20+00	WA WILLETT HOFMANN * ASSOCIATES INC ENGINEERING ARCHITECTURE LAND SURVEYING 809 EAST 2ND STREET, DIXON, IL 61021-0367 T: 815-284-3381 DESIGN FIRM: #184-000918	BORING LOGS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				DRAWN	DAL			STRUCTURE NO. 101-0220			9876	18-00655-00-BR	WINNEBAGO	89	60
				REVIEWED	EEL			STRUCTURAL SHEET NO. 40 OF 48 SHEETS			WHA# 1570D23		CONTRACT NO. 85764		
				APPROVED	MRL						ILLINOIS FED. AID PROJECT				

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Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 8/12/98

ROUTE FA 354 DESCRIPTION P92-050-94 Prairie Hill Road over Rock River LOGGED BY C. Jenkins

SECTION 12 LOCATION Rockton Twp. - SE 12, SEC., TWP. 46N, RNG. 1E

COUNTY Winnebago DRILLING METHOD HAMMER TYPE

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	Wash	After Hrs.	DEPT	BLOW	UCS	MOIST
101-0118	65+47.50	B-5	15+92	14.00R RI CL	737.00	(ft)	(/6")	(tsf)	(%)	725.70		725.0					(ft)	(/6")	(tsf)	(%)
MEDIUM brown SANDY LOAM with GRAVEL																				PEN
735.00																				716.00
VERY DENSE tan SAND & GRAVEL																				7
733.50																				21
DENSE tan SAND & large GRAVEL																				24
731.00																				25
DENSE tan well-cemented SAND & large GRAVEL																				17
728.50																				33
VERY DENSE tan well-cemented SAND & large GRAVEL																				20
726.00																				25
VERY STIFF tan SANDY LOAM TILL																				37
723.50																				34
VERY DENSE tan well-cemented SAND & GRAVEL with LIMESTONE fragments																				40
721.00																				31
VERY DENSE tan well-cemented SAND & GRAVEL																				35
718.50																				45
Same as above																				End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 8/13/98

ROUTE FA 354 DESCRIPTION P92-050-94 Prairie Hill Road over Rock River LOGGED BY C. Jenkins

SECTION 12 LOCATION Rockton Twp. - SE 12, SEC., TWP. 46N, RNG. 1E

COUNTY Winnebago DRILLING METHOD HAMMER TYPE

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	Wash	After Hrs.	DEPT	BLOW	UCS	MOIST
101-0118	65+47.50	B-6	11+34	14.00R LI CL	742.80	(ft)	(/6")	(tsf)	(%)	725.70		723.3					(ft)	(/6")	(tsf)	(%)
SOFT black SANDY LOAM																				10
740.80																				14
DENSE brown SAND & GRAVEL																				18
739.30																				16
begin wash VERY DENSE brown SAND & GRAVEL																				20
718.80																				39
MEDIUM brown SAND & GRAVEL																				24
736.80																				15
DENSE brown SAND & GRAVEL																				13
734.30																				21
VERY DENSE brown SAND & GRAVEL																				28
731.80																				14
VERY STIFF tan SANDY LOAM TILL																				21
729.30																				30
DENSE brown SAND & GRAVEL																				39
726.80																				20
Same as above																				15
724.30																				17
MEDIUM brown SAND & GRAVEL																				8
721.00																				10
Same as above																				6
718.50																				31
VERY DENSE tan SAND & GRAVEL																				35
716.00																				40
Same as above																				End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

REVISION	DATE	BY	REMARKS	DESIGNED	ATK
				DRAWN	DAL
				REVIEWED	EEL
				APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



WILLET HOFMANN & ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

BORING LOGS
STRUCTURE NO. 101-0220
STRUCTURAL SHEET NO. 41 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	61
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 2

Date 7/26/11

ROUTE FA 354 DESCRIPTION P92-050-94 Prairie Hill Road over the Rock River LOGGED BY W. Garza

SECTION 12 LOCATION Rockton Twp. - SE 12, SEC., TWP. 46N, RNG. 1E

COUNTY Winnebago DRILLING METHOD HAMMER TYPE

STRUCT. NO. 101-0118
Station 65+47.50
BORING NO. B-7
Station 13+96
Offset 6.00 ft RL CL
Ground Surface Elev. 738.90 ft

DEPTH	B	U	M	Surface Water Elev.	DEPTH	B	U	M
(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)

AIR				DENSE tan/gray well-cemented SAND & GRAVEL	7			
					8			
					24			
					716.90			
				HARD tan SANDY LOAM TILL with GRAVEL lens	100/10.5"			
					PEN 4.6	7.0		
						S		
					714.40			
				VERY DENSE tan well-cemented SAND & GRAVEL	100/11.5"			
					PEN			
Same as above					712.40			
Same as above					709.90			
Same as above					707.40			
Same as above					704.90			
Same as above					702.40			
river bottom 18.5					720.40			
					699.90			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 2 of 2

Date 7/26/11

ROUTE FA 354 DESCRIPTION P92-050-94 Prairie Hill Road over the Rock River LOGGED BY W. Garza

SECTION 12 LOCATION Rockton Twp. - SE 12, SEC., TWP. 46N, RNG. 1E

COUNTY Winnebago DRILLING METHOD HAMMER TYPE

STRUCT. NO. 101-0118
Station 65+47.50
BORING NO. B-7
Station 13+96
Offset 6.00 ft RL CL
Ground Surface Elev. 738.90 ft

DEPTH	B	U	M	Surface Water Elev.	DEPTH	B	U	M
(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)

Wash HARD tan SANDY LOAM TILL					17			
					21	4.2	8.0	
					22	S		
					697.40			
DENSE tan dirty SAND & GRAVEL					9			
					16			
					17			
					694.90			
STIFF tan SANDY LOAM with SAND lens					8			
					10	1.7	11.0	
					11	B		
					692.40			
DENSE tan dirty SAND & GRAVEL with clean fine SAND lens					13			
					15		9.0	
					17			
					689.90			
MEDIUM tan fine SAND					5			
					5			
					8			
					687.40			
DENSE tan SAND with medium GRAVEL					17			
					17			
					22			
					684.90			
Wash DENSE tan well-cemented SAND & GRAVEL					19			
					23			
					24			
					682.40			
DENSE tan SAND & GRAVEL					17			
					15			
					18			
					679.90			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

REVISION	DATE	BY	REMARKS	DESIGNED	ATK
				DRAWN	DAL
				REVIEWED	EEL
				APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

WILLET HOFMANN
ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

BORING LOGS
STRUCTURE NO. 101-0220
STRUCTURAL SHEET NO. 42 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	62
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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REVISION	DATE	BY	REMARKS	DESIGNED	ATK	WINNEBAGO COUNTY PRAIRIE HILL ROAD OVER ROCK RIVER STATION 20+00	WA WILLETT HOFMANN * ASSOCIATES INC ENGINEERING ARCHITECTURE LAND SURVEYING 809 EAST 2ND STREET, DIXON, IL 61021-0367 T: 815-284-3351 DESIGN FIRM: #184-000918	BORING LOGS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	THIS DOCUMENT IS UNOFFICIAL
				DRAWN	DAL			STRUCTURE NO. 101-0220			9876	18-00655-00-BR	WINNEBAGO	89	63	
				REVIEWED	EEL			STRUCTURAL SHEET NO. 43 OF 48 SHEETS			WHA# 1570D23		CONTRACT NO. 85764			
				APPROVED	MRL						ILLINOIS FED. AID PROJECT					

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PROJECT **Prairie Hill Rd Over Rock River, Winnebago County, South Beloit, WI**

CLIENT **Winnebago County Highway Dept, 424 North Springfield Avenue, Rockford, IL**

STARTED **04/03/2025** FINISHED **04/04/2025** DRILL RIG NO. **315**

TSC

JOB **L-98,601**

ELEVATIONS

GROUND SURFACE **733.5**

END OF BORING **614.5**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **N/A Rotary Wash**

AT END OF BORING **N/A Rotary Wash**

Depth (ft.)	Lithology	Length	Recovery	SAMPLE		N	WC (%)	Qp (tsf)	Qu (tsf)	γ DRY (pcf)	DEPTH (ft)	ELEV.	SOIL DESCRIPTIONS
				NO.	TYPE								
0	Bituminous Concrete										0.2	733.3	Bituminous Concrete
	P.C. Concrete										0.9	732.6	P.C. Concrete
5													
10													Air space below bridge deck
15											15.5	718.0	Water
20				1	SS	11	9.3				19.0	714.5	Medium dense dark gray GRAVEL, little sand, saturated (GP-SP)
25				2A	SS	21	7.0				23.0	710.5	
				2B			7.7						
30				3	SS	26	7.8						
35				4	SS	38	8.3						Dense to medium dense brownish-gray clayey SAND, little to some gravel, damp (SC)
				5	SS	35	8.4						
				6	SS	34	11.2						
				7	SS	36	10.4				34.5	699.0	Dense brown fine to medium SAND and GRAVEL, saturated (SP-GP)
				8	SS	21	8.5				37.0	696.5	
40				9	SS	24	8.2						Medium dense brown clayey SAND, little gravel, damp (SC)

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT **Prairie Hill Rd Over Rock River, Winnebago County, South Beloit, WI**

CLIENT **Winnebago County Highway Dept, 424 North Springfield Avenue, Rockford, IL**

STARTED **04/03/2025** FINISHED **04/04/2025** DRILL RIG NO. **315**

TSC

JOB **L-98,601**

ELEVATIONS

GROUND SURFACE **733.5**

END OF BORING **614.5**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **N/A Rotary Wash**

AT END OF BORING **N/A Rotary Wash**

Depth (ft.)	Lithology	Length	Recovery	SAMPLE		N	WC (%)	Qp (tsf)	Qu (tsf)	γ DRY (pcf)	DEPTH (ft)	ELEV.	SOIL DESCRIPTIONS
				NO.	TYPE								
40				9	SS	24	8.2				41.5	692.0	Medium dense brown clayey SAND, little gravel, damp (SC)
45				10	SS	12	9.5						Medium dense gray clayey SAND, trace gravel, moist (SC)
				11	SS	14	9.7				47.0	686.5	
				12	SS	65	10.4						Very dense brown silty fine SAND, little to some gravel, saturated (SM)
50											51.0	682.5	
55				13	SS	30	9.4						Dense brown clayey SAND, little gravel, very moist (SC)
60				14	SS	23	8.3						
65				15	SS	29	7.5				65.0	668.5	
70				16	SS	31	20.2	3.0	2.98				Very stiff to hard brown silty CLAY, little sand, moist (CL)
				17	SS	24	20.7	4.0	4.04				
75											75.5	658.0	
80				18	SS	36	16.0						Dense brown fine to medium SAND, saturated (SP)

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

REVISION	DATE	BY	REMARKS	DESIGNED	ATK	WINNEBAGO COUNTY PRAIRIE HILL ROAD OVER ROCK RIVER STATION 20+00	WILLET HOFMANN ASSOCIATES INC ENGINEERING ARCHITECTURE LAND SURVEYING 809 EAST 2ND STREET, DIXON, IL 61021-0367 T: 815-284-3351 DESIGN FIRM: #184-000918	BORING LOGS STRUCTURE NO. 101-0220 STRUCTURAL SHEET NO. 44 OF 48 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				DRAWN	DAL				9876	18-00655-00-BR	WINNEBAGO	89	64
				REVIEWED	EEL				WHA# 1570D23	CONTRACT NO. 85764			
				APPROVED	MRL				ILLINOIS	FED. AID PROJECT			

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PROJECT **Prairie Hill Rd Over Rock River, Winnebago County, South Beloit, WI**

CLIENT **Winnebago County Highway Dept, 424 North Springfield Avenue, Rockford, IL**

STARTED **04/03/2025** FINISHED **04/04/2025** DRILL RIG NO. **315**

TSC

JOB **L-98,601**

ELEVATIONS

GROUND SURFACE **733.5**

END OF BORING **614.5**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **N/A Rotary Wash**

AT END OF BORING **N/A Rotary Wash**

Depth (ft.)	Lithology	Length Recovery	SAMPLE		N	WC (%)	Qp (tsf)	Qu (tsf)	γ DRY (pcf)	DEPTH (ft)	ELEV.	SOIL DESCRIPTIONS
			NO.	TYPE								
80			19	SS	32	17.4						Dense brown fine to medium SAND, saturated (SP)
85			20	SS	9	22.8				85.5	648.0	
90			21	SS	17	20.8						Loose to medium dense brown clayey SILT, little sand, very moist (ML)
95			22	SS	19	10.8	4.5			96.0	637.5	
100			23	SS	18	23.8	4.5	4.50				Hard brown silty CLAY, little sand, trace gravel, moist to very moist (CL)
105			24	SS	35	20.9				106.0	627.5	Dense brown SILT, trace sand, very moist (ML)
110			25	SS	41	19.0				111.0	622.5	Dense brown silty fine SAND, very moist (SM)
115			26	SS	47	11.7	4.5			115.0	618.5	Hard brown silty CLAY, little sand, moist (CL)
120												

End of Boring at 120.0'

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT **Prairie Hill Rd Over Rock River, Winnebago County, South Beloit, WI**

CLIENT **Winnebago County Highway Dept, 424 North Springfield Avenue, Rockford, IL**

STARTED **03/31/2025** FINISHED **04/01/2025** DRILL RIG NO. **315**

TSC

JOB **L-98,601**

ELEVATIONS

GROUND SURFACE **731.0**

END OF BORING **613.0**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **N/A Rotary Wash**

AT END OF BORING **N/A Rotary Wash**

Depth (ft.)	Lithology	Length Recovery	SAMPLE		N	WC (%)	Qp (tsf)	Qu (tsf)	γ DRY (pcf)	DEPTH (ft)	ELEV.	SOIL DESCRIPTIONS
			NO.	TYPE								
0										0.2	730.8	Bituminous Concrete
										0.9	730.1	P.C. Concrete
5												Air space below bridge deck
10												
15										14.0	717.0	Water
										18.0	713.0	
20			1	SS	5	15.9						Loose brownish-gray SAND and GRAVEL, saturated (SP/GP)
			2	SS	7	6.3						
25			3	SS	19	14.8				23.5	707.5	Medium dense brown SILT, little sand, moist (ML)
			4	SS	57	14.1				26.0	705.0	Very dense brown SILT, little sand, moist (ML)
30			5	SS	50	15.8				31.0	700.0	Hard brown very silty CLAY, trace sand, moist (CL-ML)
			6	SS	54	18.1	4.5+			34.0	697.0	Dense brown SILT, moist (ML)
35			7	SS	47	18.0				36.0	695.0	Stiff brown silty CLAY, little sand, trace gravel, moist (CL)
			8	SS	42	15.8	1.75	1.80		38.5	692.5	Hard brown silty CLAY, little sand, trace gravel, moist (CL)
40			9	SS	55	16.3	4.5+	5.79				

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

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PROJECT **Prairie Hill Rd Over Rock River, Winnebago County, South Beloit, WI**

CLIENT **Winnebago County Highway Dept, 424 North Springfield Avenue, Rockford, IL**

STARTED **03/31/2025** FINISHED **04/01/2025** DRILL RIG NO. **315**

TSC

JOB **L-98,601**

BORING

10

ELEVATIONS

GROUND SURFACE **731.0**

END OF BORING **613.0**

WATER LEVEL OBSERVATIONS

▽ WHILE DRILLING **N/A Rotary Wash**

▽ AT END OF BORING **N/A Rotary Wash**

Depth (ft.)	Lithology	Length Recovery	SAMPLE		N	WC (%)	Qp (tsf)	Qu (tsf)	γ DRY (pcf)	DEPTH (ft)	ELEV.	SOIL DESCRIPTIONS
			NO.	TYPE								
40			9	SS	55	16.3	4.5+	5.79				
			10	SS	52	15.1	4.0					Hard brown silty CLAY, little sand, trace gravel, moist (CL)
45			11	SS	47	15.0	4.5			46.0	685.0	
			12	SS	43	19.9						Dense brown SILT, trace sand, moist (ML)
50										50.0	681.0	
			13	SS	45	18.1	4.5					Hard brown silty CLAY, little sand, moist (CL)
55										55.0	676.0	
			14	SS	29	12.4						Dense brown med. to coarse SAND, little to some gravel, wet (SP)
60												
			15	SS	34	12.9						
65										64.5	666.5	
			16	SS	32	16.1	4.5					Hard brown silty CLAY, little sand, moist (CL)
70												
			17	SS	41	16.6						
75										75.0	656.0	
			18	SS	56	13.2						Dense brown silty fine SAND, little gravel, wet (SM)
80												

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT **Prairie Hill Rd Over Rock River, Winnebago County, South Beloit, WI**

CLIENT **Winnebago County Highway Dept, 424 North Springfield Avenue, Rockford, IL**

STARTED **03/31/2025** FINISHED **04/01/2025** DRILL RIG NO. **315**

TSC

JOB **L-98,601**

BORING

10

ELEVATIONS

GROUND SURFACE **731.0**

END OF BORING **613.0**

WATER LEVEL OBSERVATIONS

▽ WHILE DRILLING **N/A Rotary Wash**

▽ AT END OF BORING **N/A Rotary Wash**

Depth (ft.)	Lithology	Length Recovery	SAMPLE		N	WC (%)	Qp (tsf)	Qu (tsf)	γ DRY (pcf)	DEPTH (ft)	ELEV.	SOIL DESCRIPTIONS
			NO.	TYPE								
80												
			19	SS	36	10.0						Dense brown silty fine SAND, little gravel, wet (SM)
85										84.5	646.5	
			20	SS	40-48-50/1"	19.7						
90												
			21	SS	56-50/3"	18.6						
95												
			22	SS	63	23.1						
100												Very dense brown silty fine SAND, little gravel, wet (SM)
			23	SS	63	22.1						
105												
			24	SS	52	17.7						
110												
			25	SS	50	17.8						
115										115.0	616.0	
			26	SS	62	13.2	4.5+					Hard brown silty CLAY, trace sand and gravel, moist (CL)
120												End of Boring at 119.0'

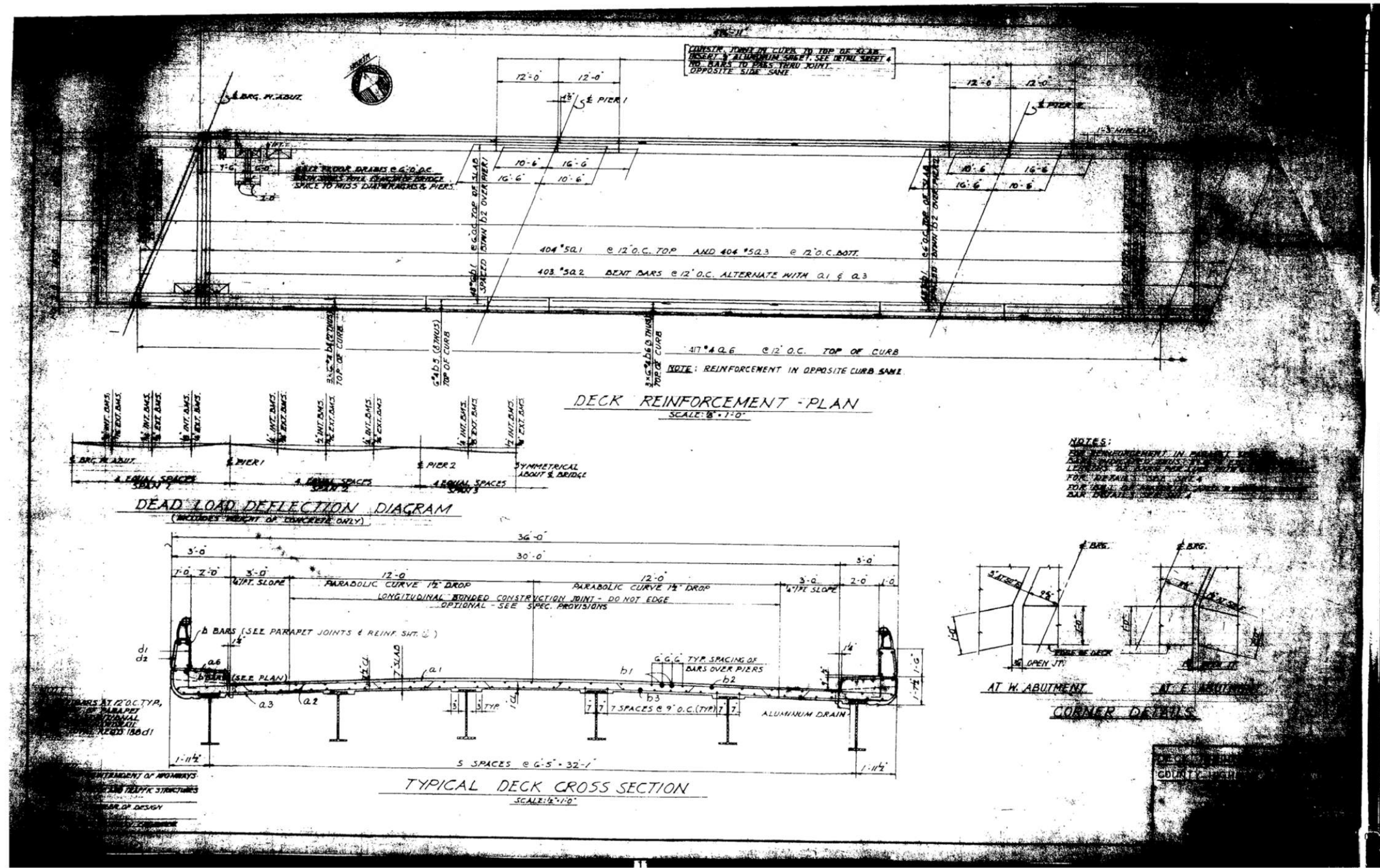
Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	67
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	DAL
REVIEWED	ATK
APPROVED	MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



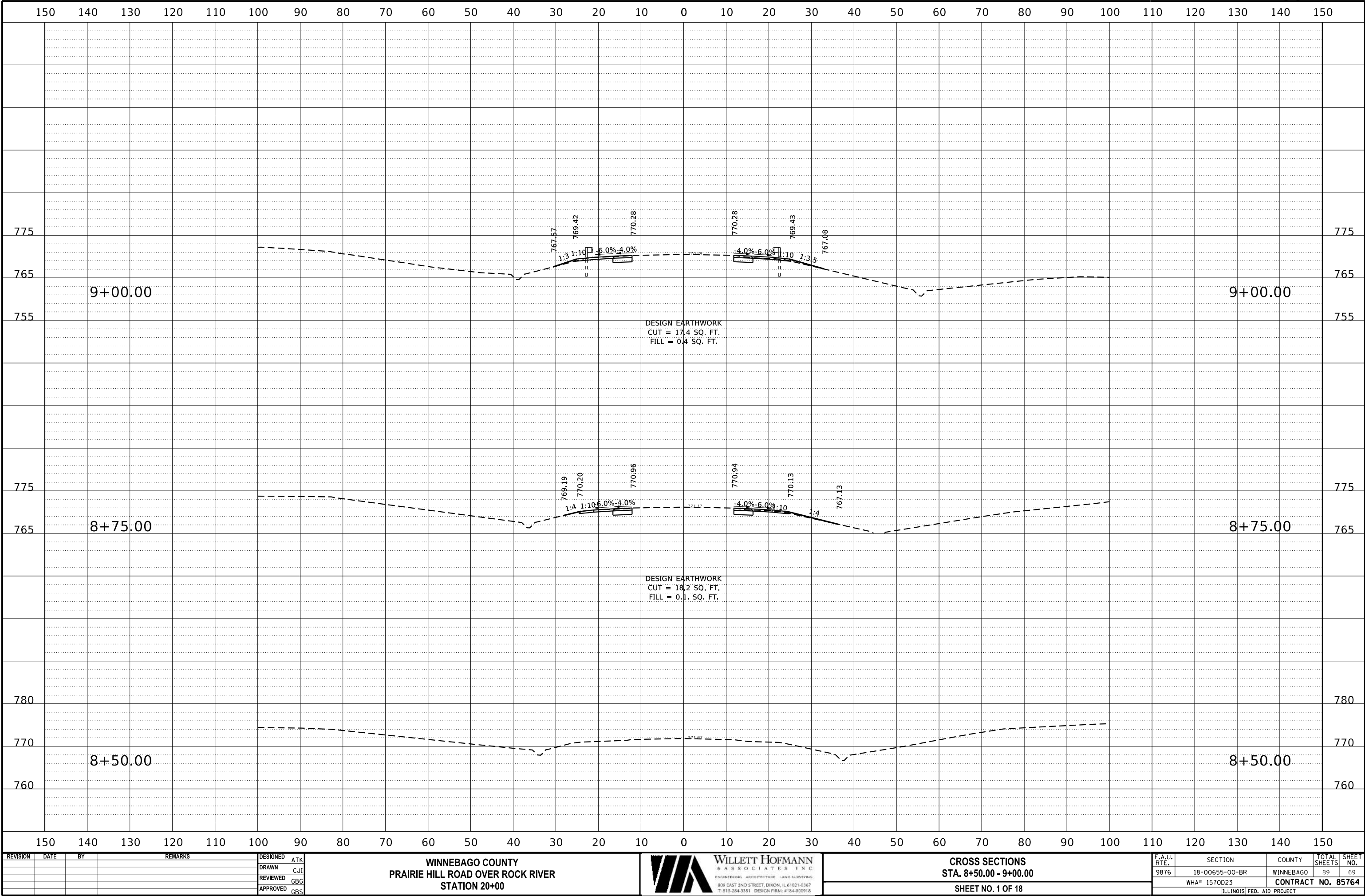
WILLET HOFMANN
ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

EXISTING PLANS
STRUCTURE NO. 101-0220
STRUCTURAL SHEET NO. 48 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	68
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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DESIGNED	ATK
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REVIEWED	GBG
APPROVED	GBS

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



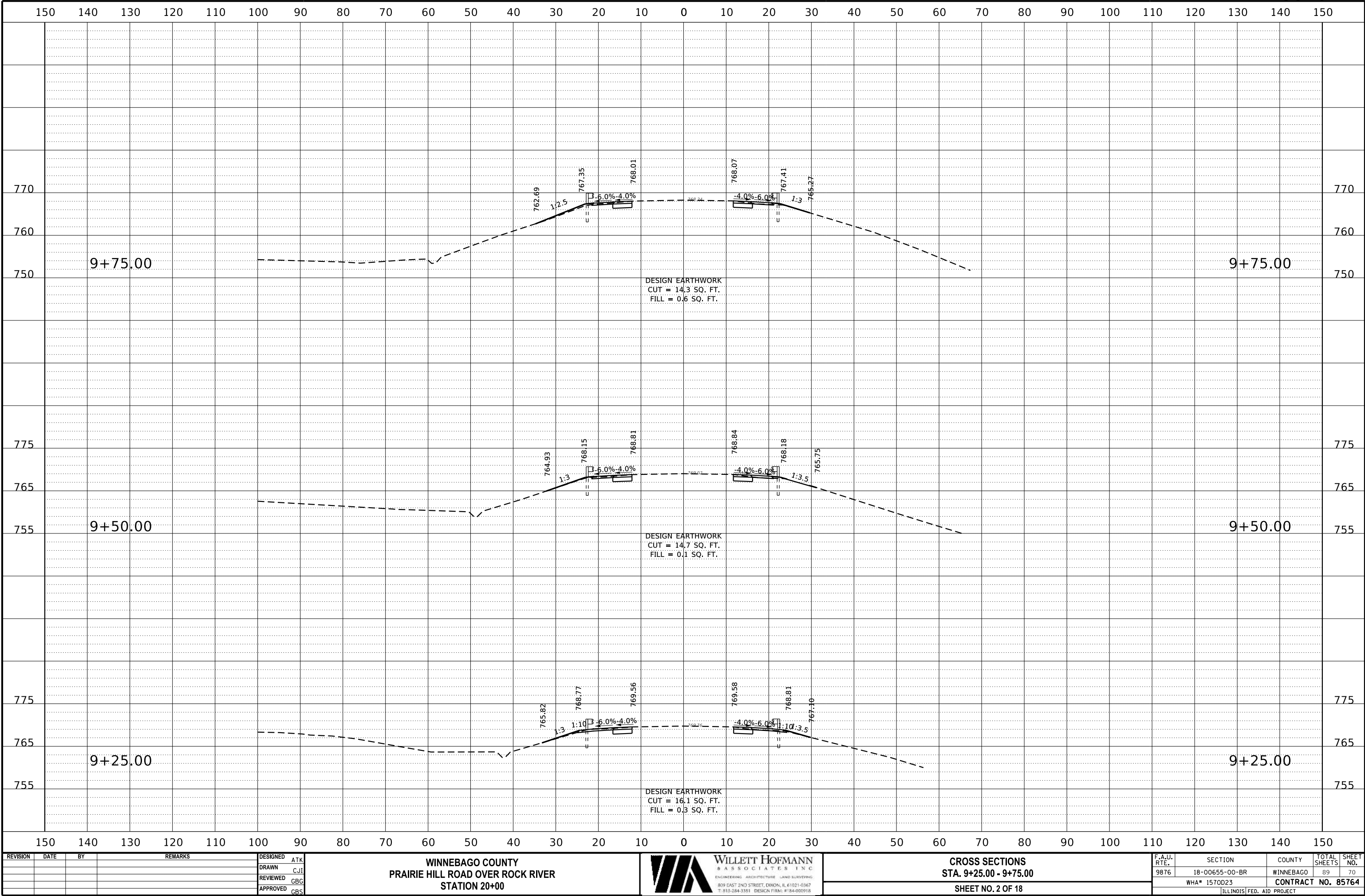
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STA. 8+50.00 - 9+00.00
SHEET NO. 1 OF 18

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	69
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

WILLET HOFMANN
& ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

CROSS SECTIONS
STA. 9+25.00 - 9+75.00

SHEET NO. 2 OF 18

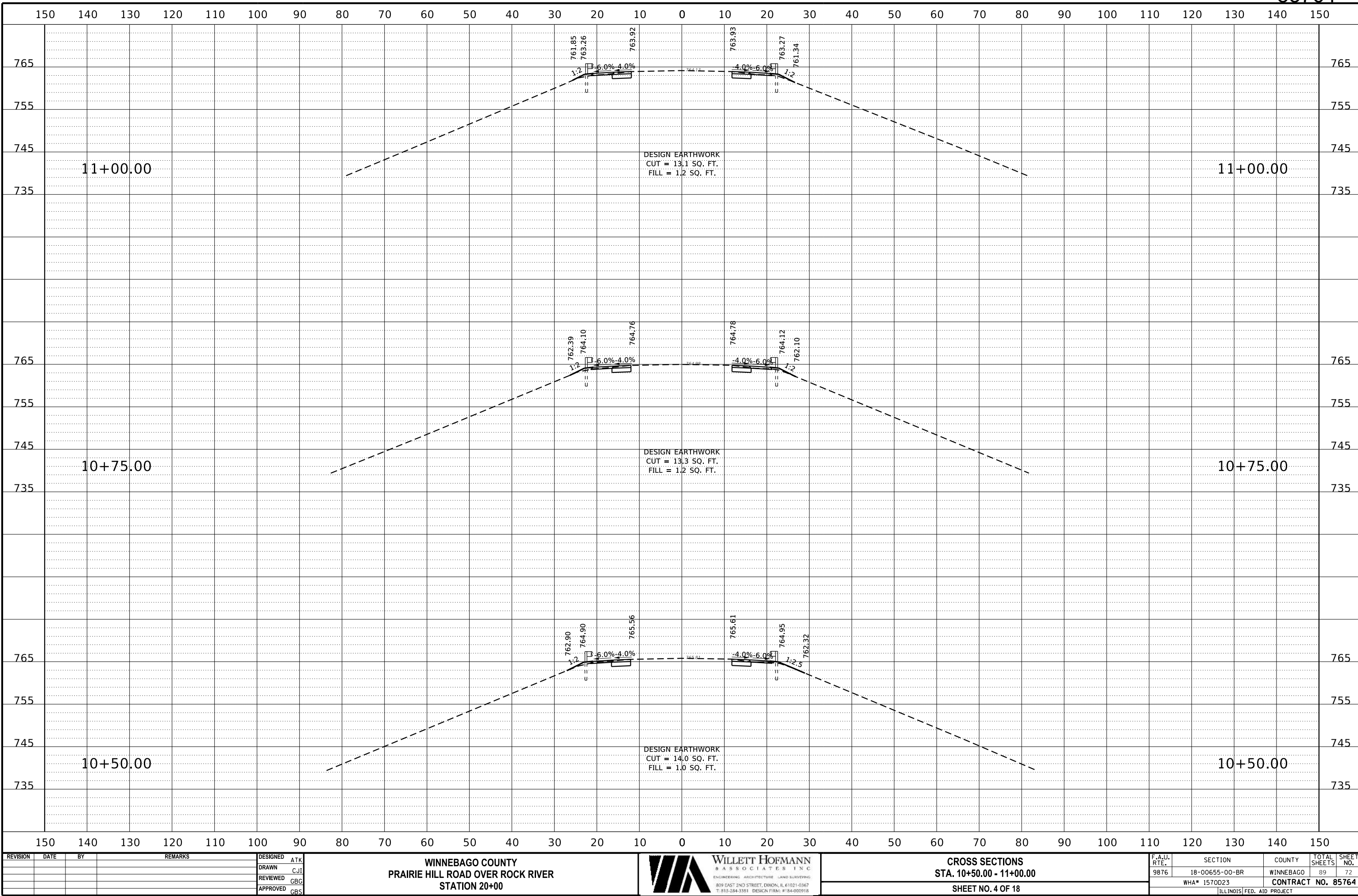
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9876	18-00655-00-BR	WINNEBAGO	89	70
WHA# 1570D23		CONTRACT NO. 85764		



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WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

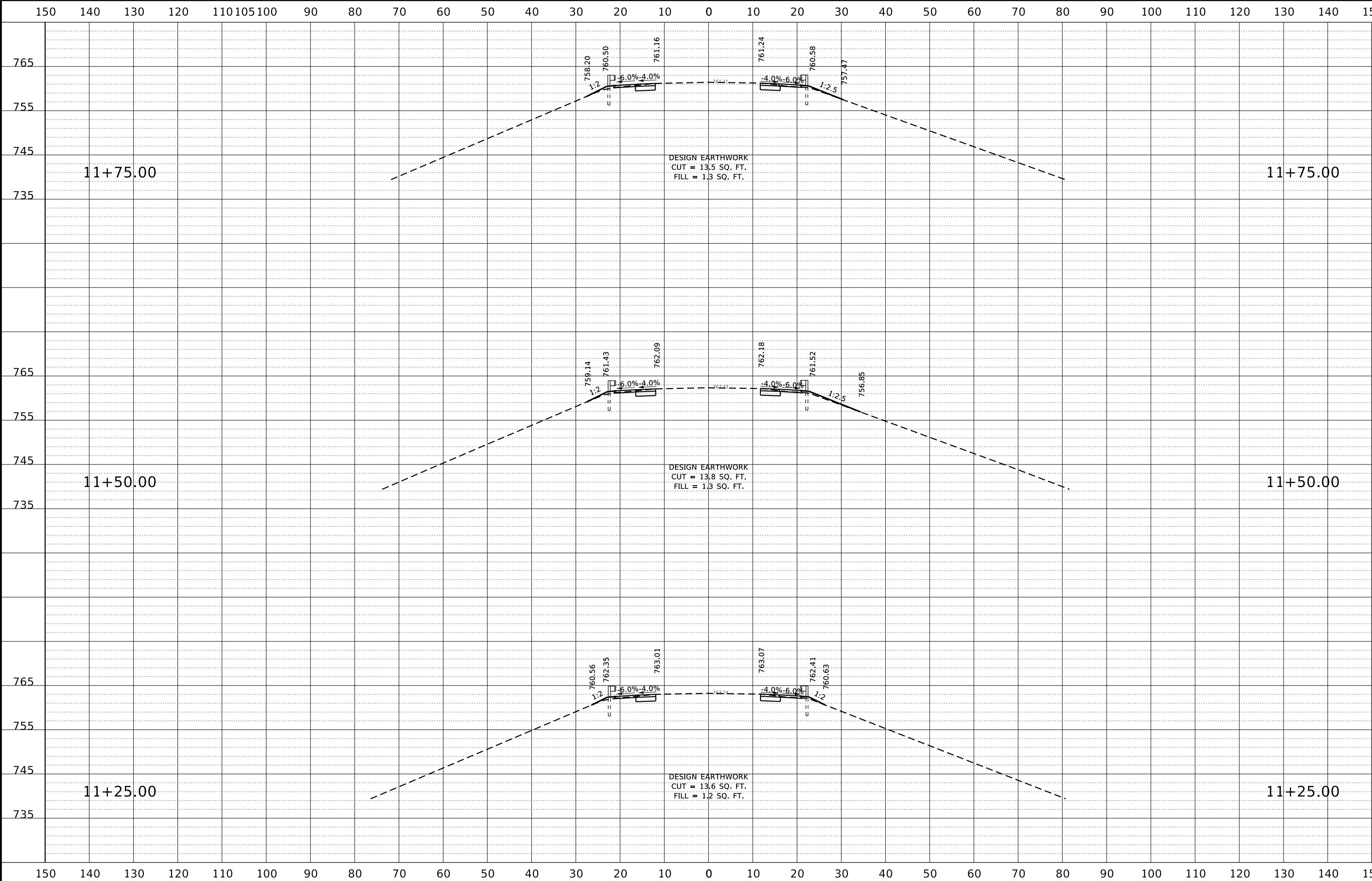


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SHEET NO. 4 OF 18

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ILLINOIS FED. AID PROJECT				

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DESIGNED	ATK
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REVIEWED	GBG
APPROVED	GBS

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
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ASSOCIATES INC

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T: 815-284-3381 DESIGN FIRM: #184-000918

CROSS SECTIONS
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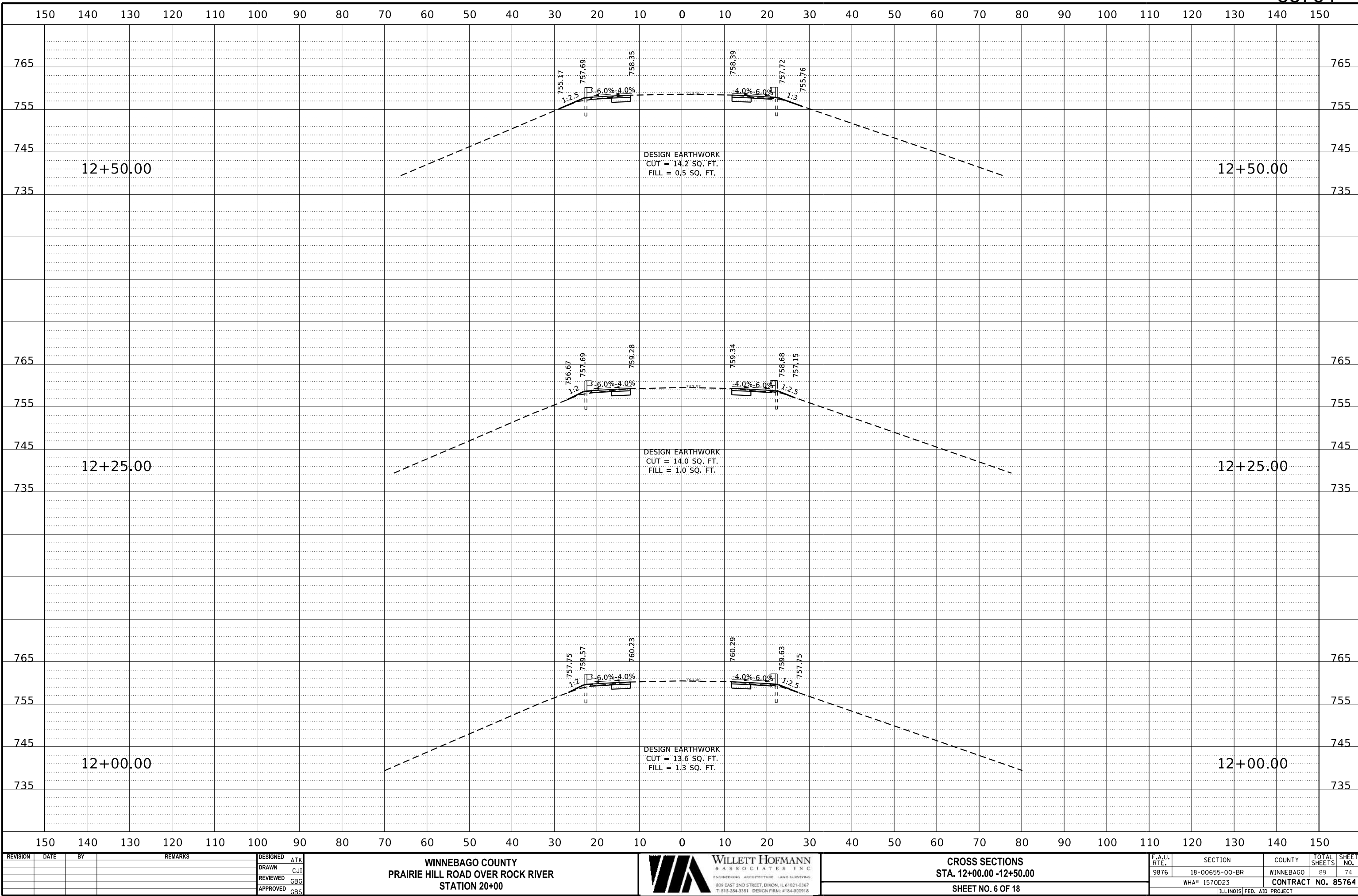
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS		FED. AID PROJECT		

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REVISION	DATE	BY	REMARKS

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REVIEWED	GBG
APPROVED	GBS

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

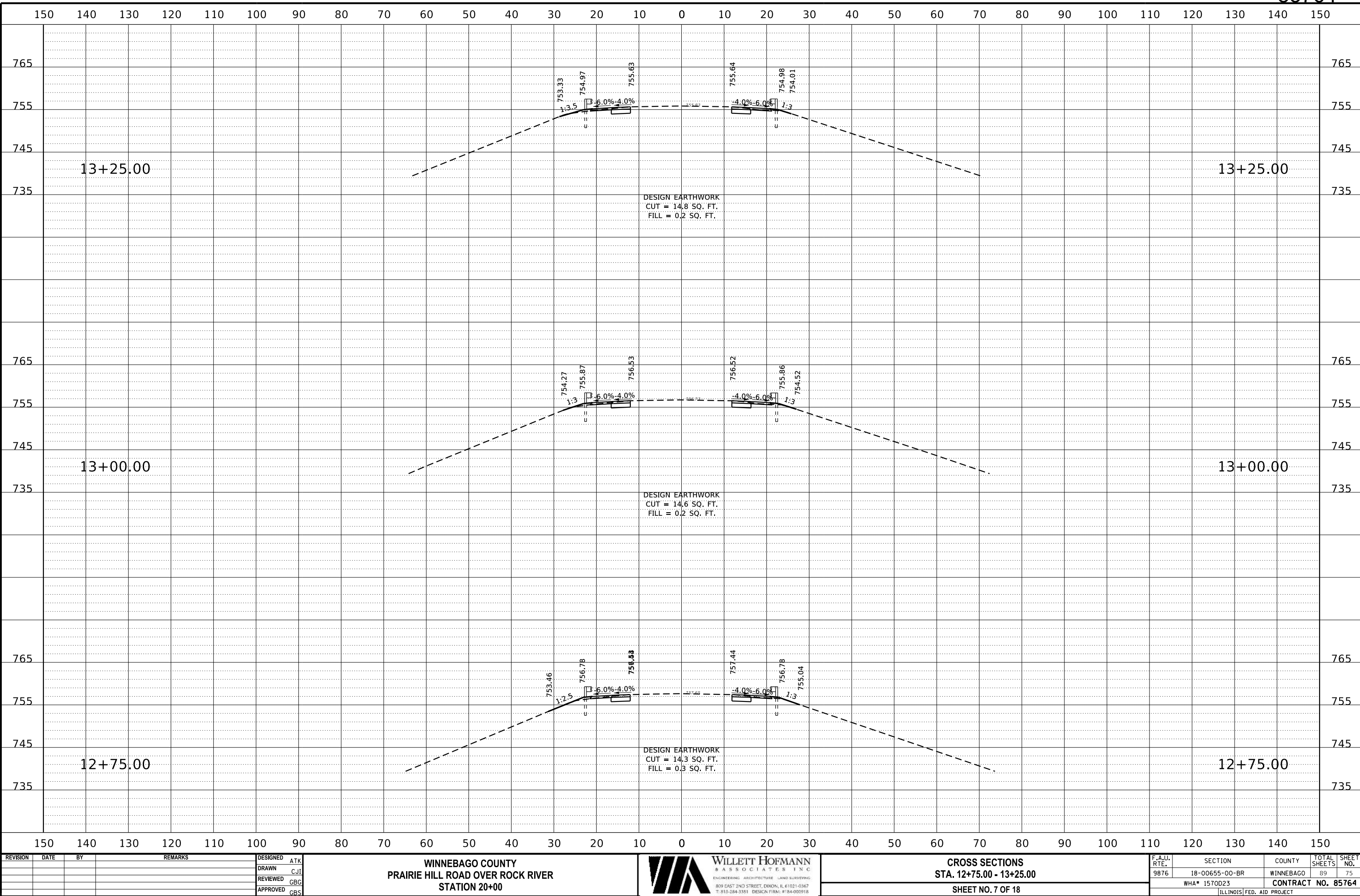


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SHEET NO. 6 OF 18

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	74
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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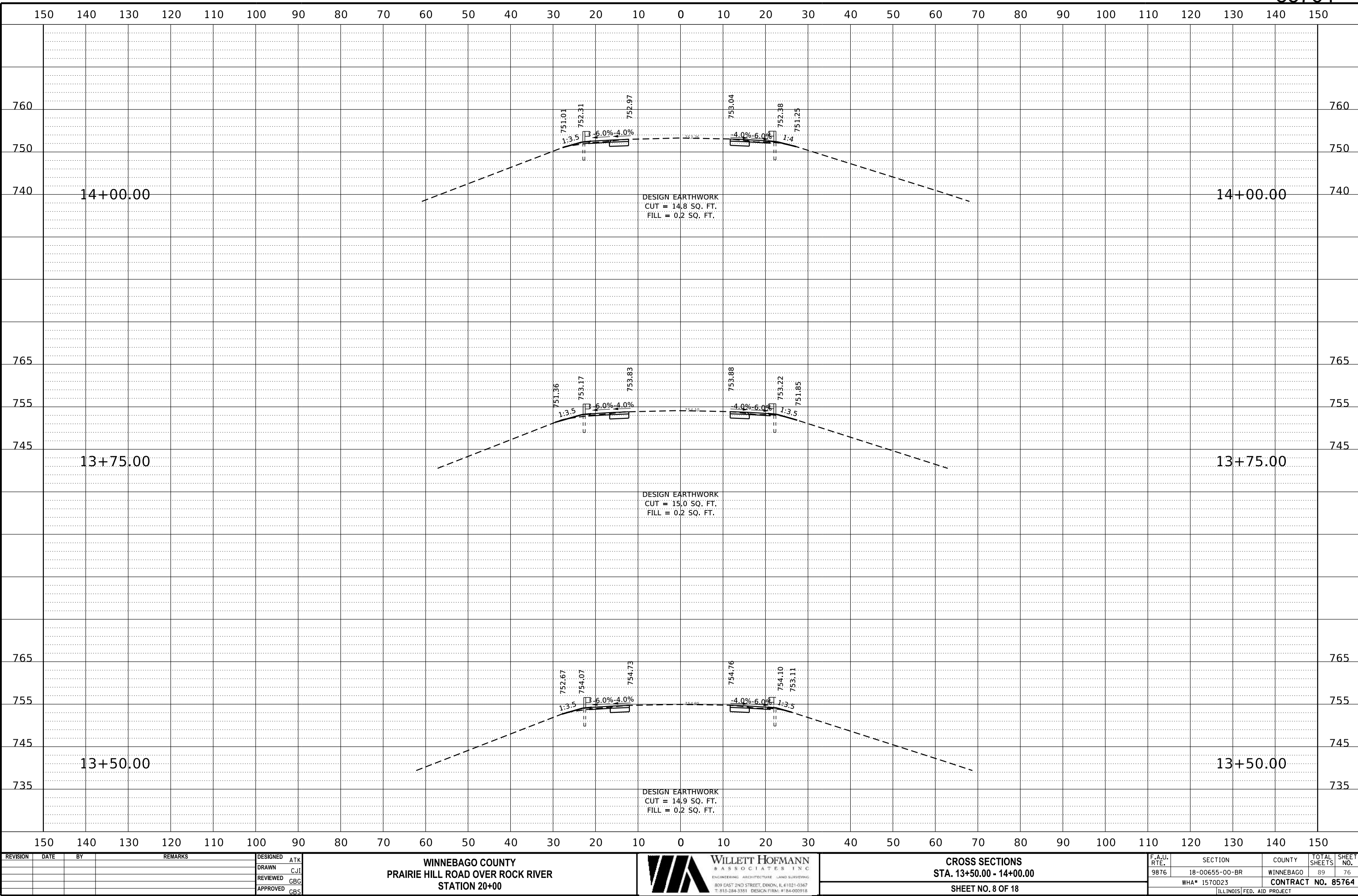
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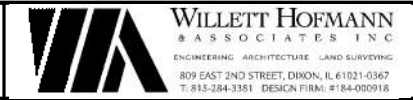
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REVISION	DATE	BY	REMARKS

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WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



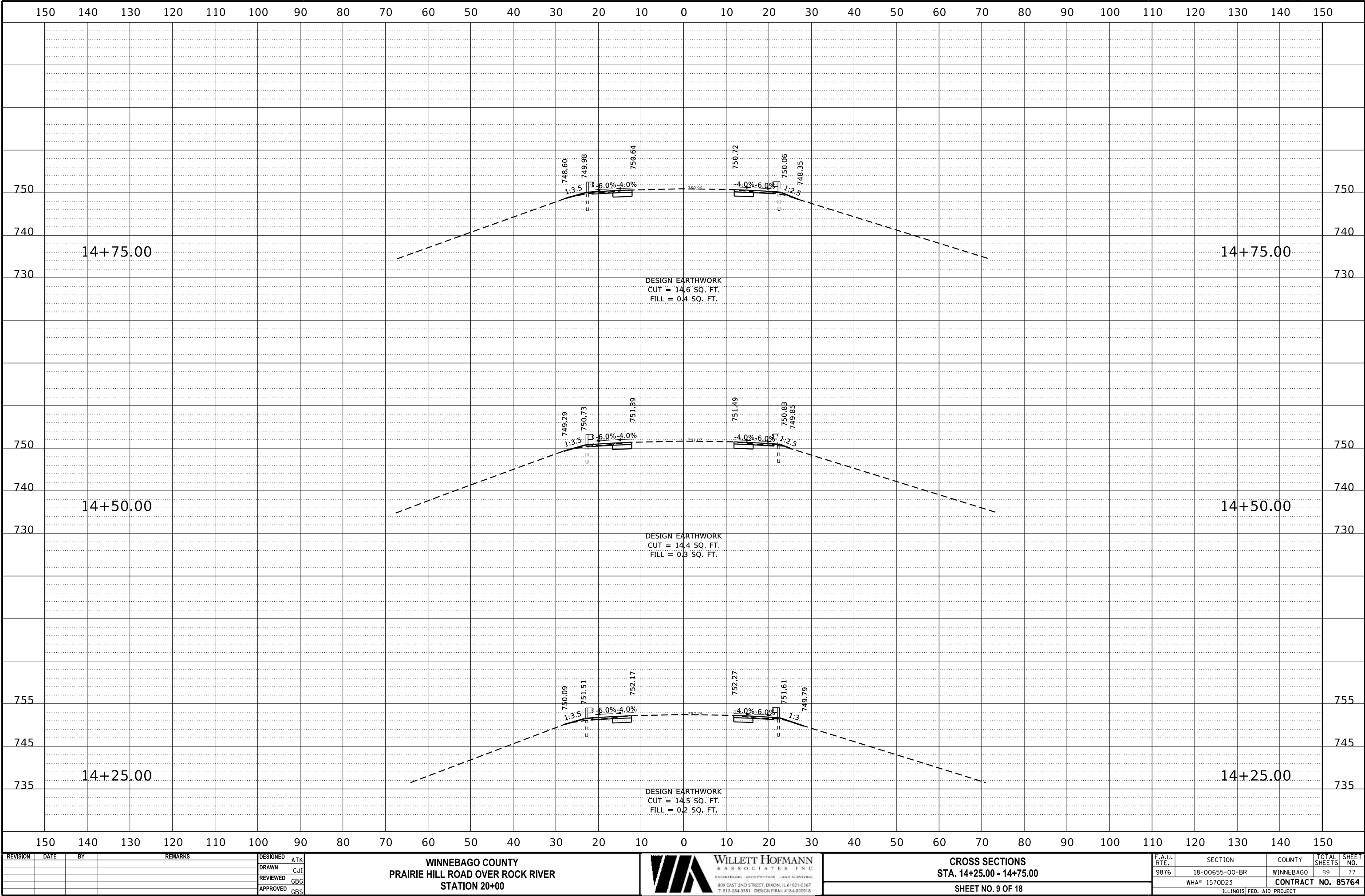
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SHEET NO. 8 OF 18

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	76
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS		FED. AID PROJECT		

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APPROVED	GBS

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

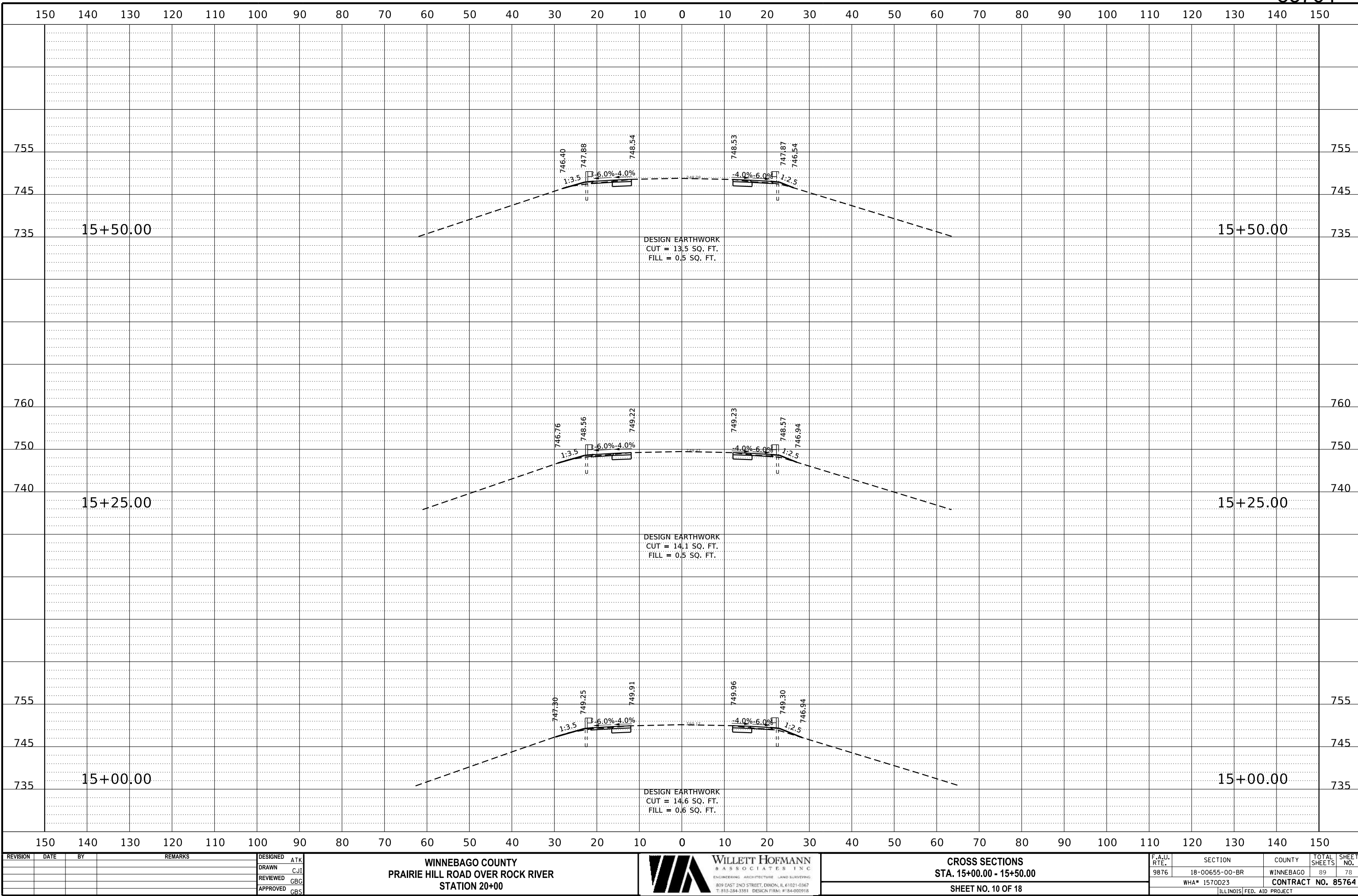


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STA. 14+25.00 - 14+75.00
SHEET NO. 9 OF 18

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	77
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS		FED. AID PROJECT		

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REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	CJI
REVIEWED	GBG
APPROVED	GBS

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

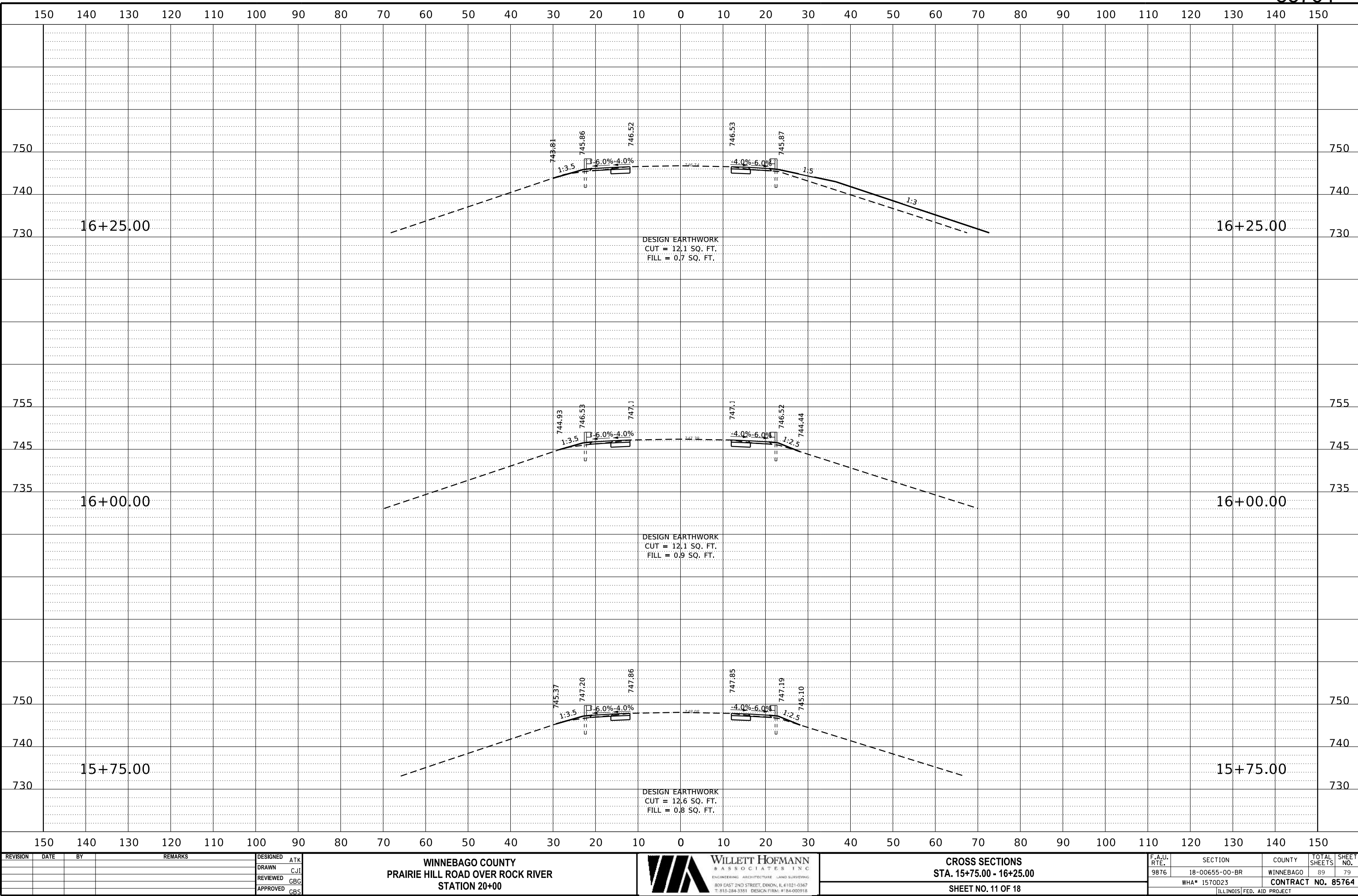


CROSS SECTIONS
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SHEET NO. 10 OF 18

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	78
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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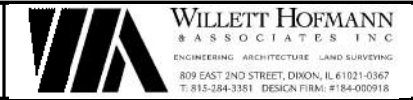
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REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	CJI
REVIEWED	GBG
APPROVED	GBS

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



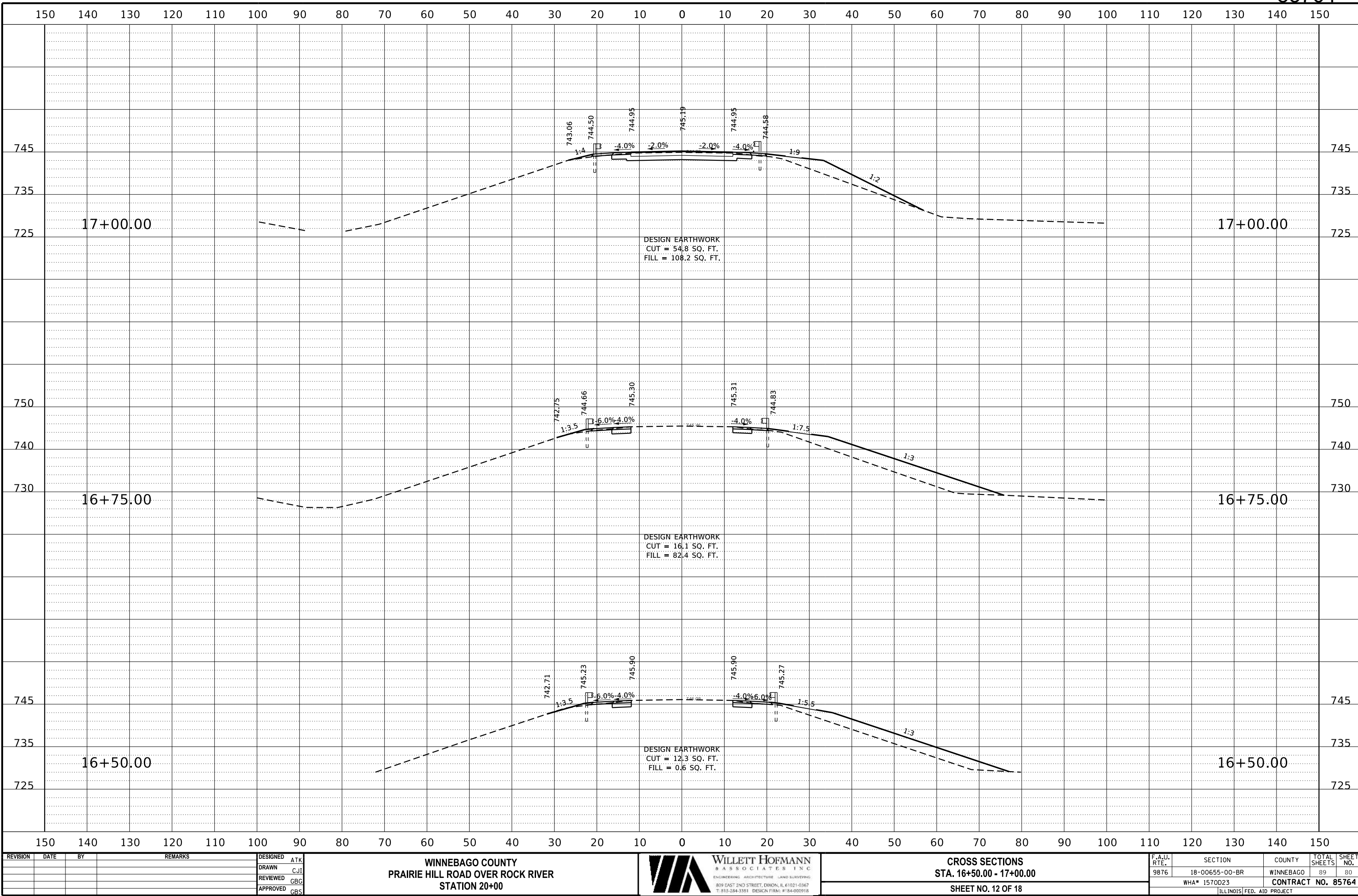
CROSS SECTIONS
STA. 15+75.00 - 16+25.00

SHEET NO. 11 OF 18

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	79
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS		FED. AID PROJECT		

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REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	CJI
REVIEWED	GBG
APPROVED	GBS

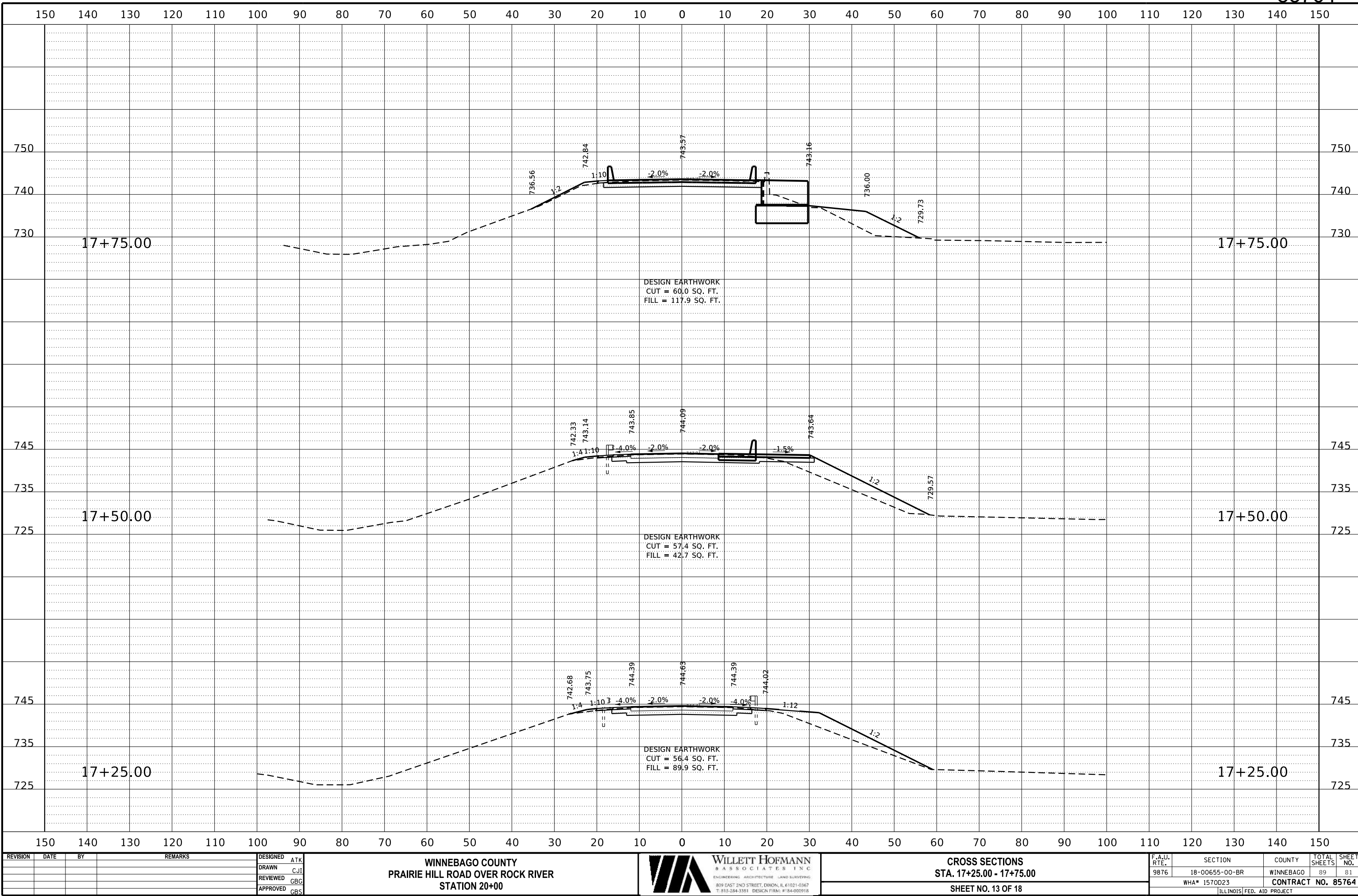
WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



CROSS SECTIONS
STA. 16+50.00 - 17+00.00
SHEET NO. 12 OF 18

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	80
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	CJI
REVIEWED	GBG
APPROVED	GBS

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

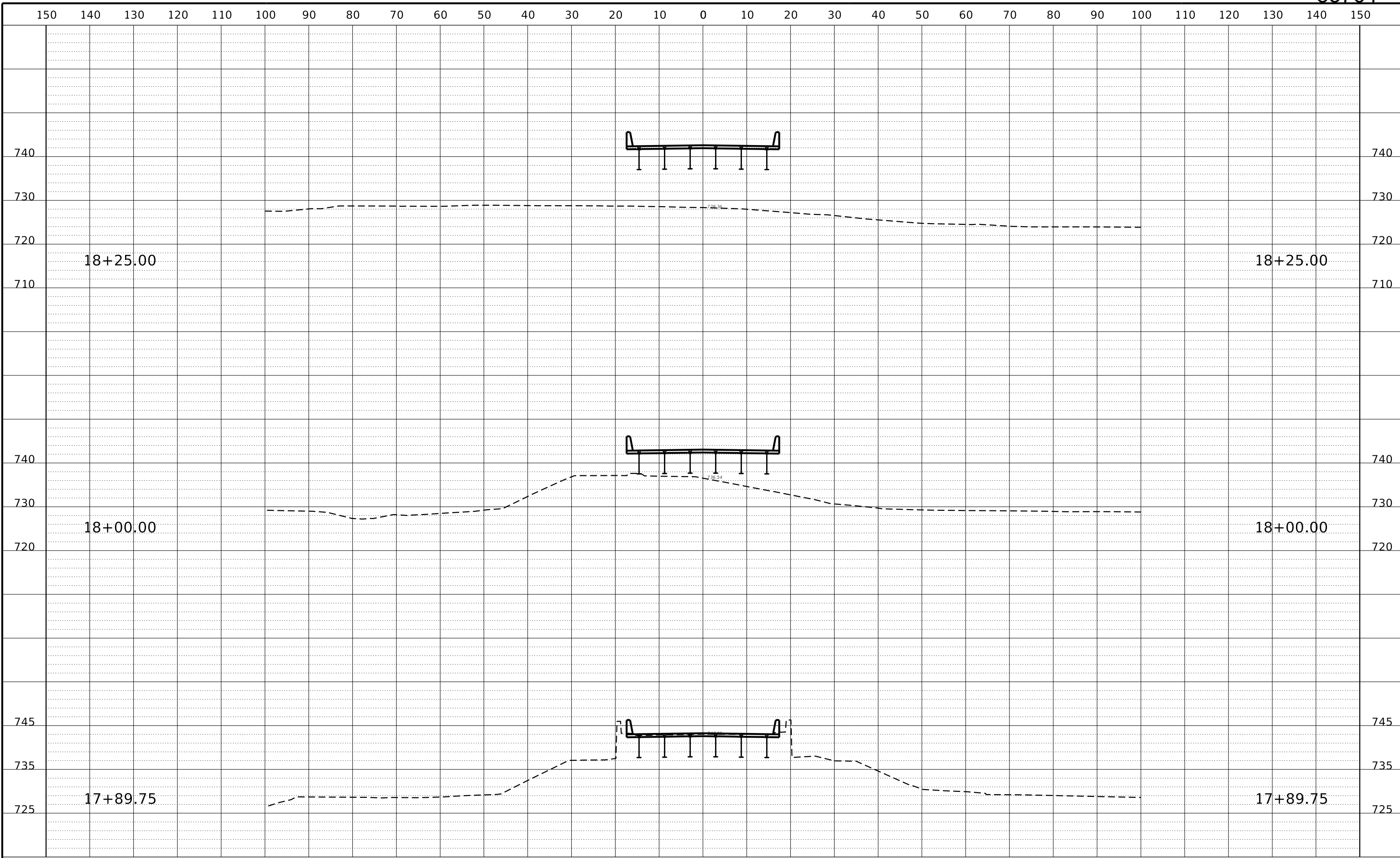


CROSS SECTIONS
STA. 17+25.00 - 17+75.00
SHEET NO. 13 OF 18

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	81
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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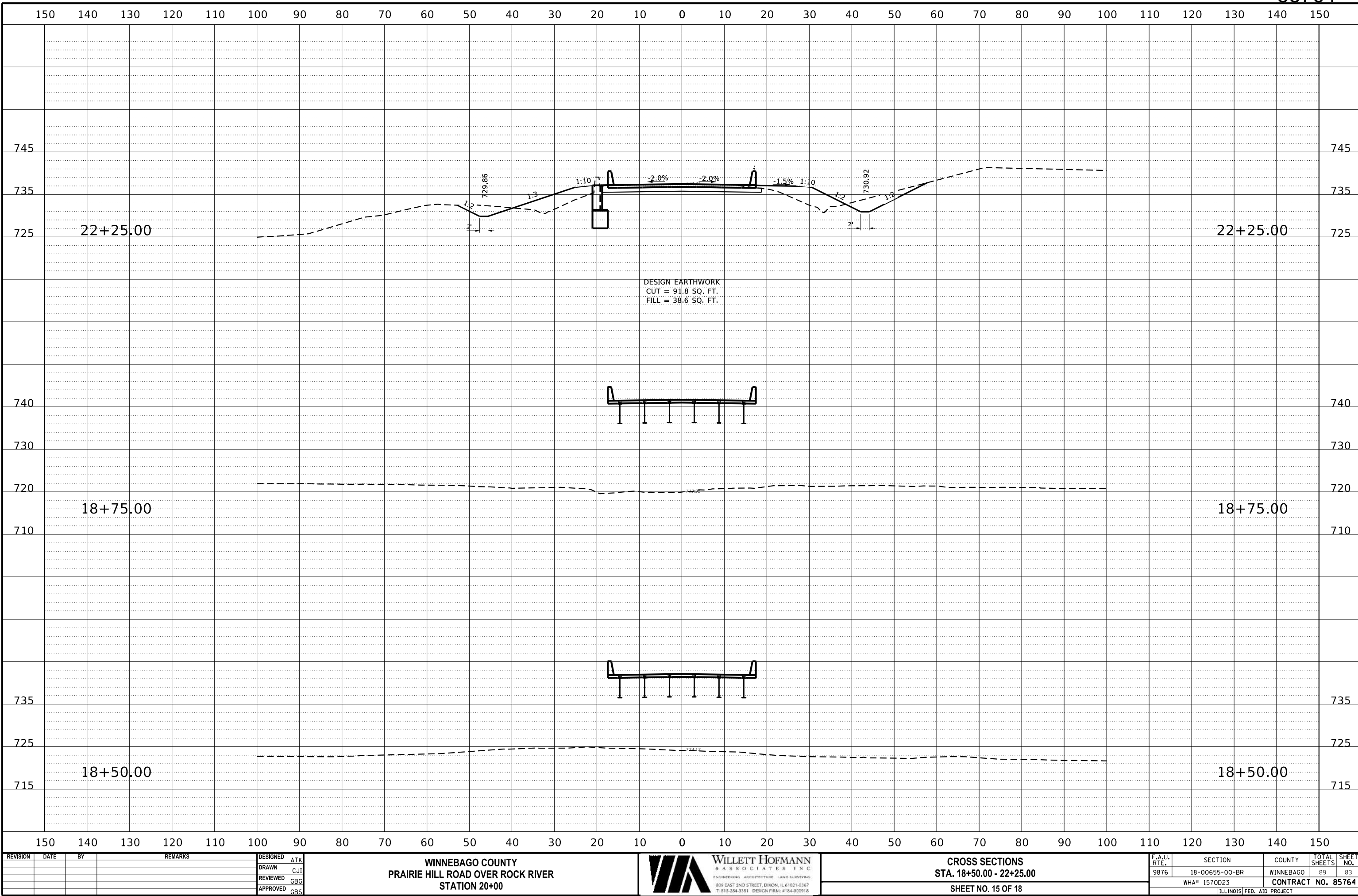


150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150			
REVISION	DATE	BY	REMARKS			DESIGNED	ATK	WINNEBAGO COUNTY PRAIRIE HILL ROAD OVER ROCK RIVER STATION 20+00										CROSS SECTIONS STA. 17+89.75 - 18+25.00										F.A.U. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
						DRAWN	CJI																					9876	18-00655-00-BR		WINNEBAGO	89	82
						REVIEWED	GBG																					WHA# 1570D23		CONTRACT NO. 85764			
						APPROVED	GBS											SHEET NO. 14 OF 18										ILLINOIS FED. AID PROJECT					

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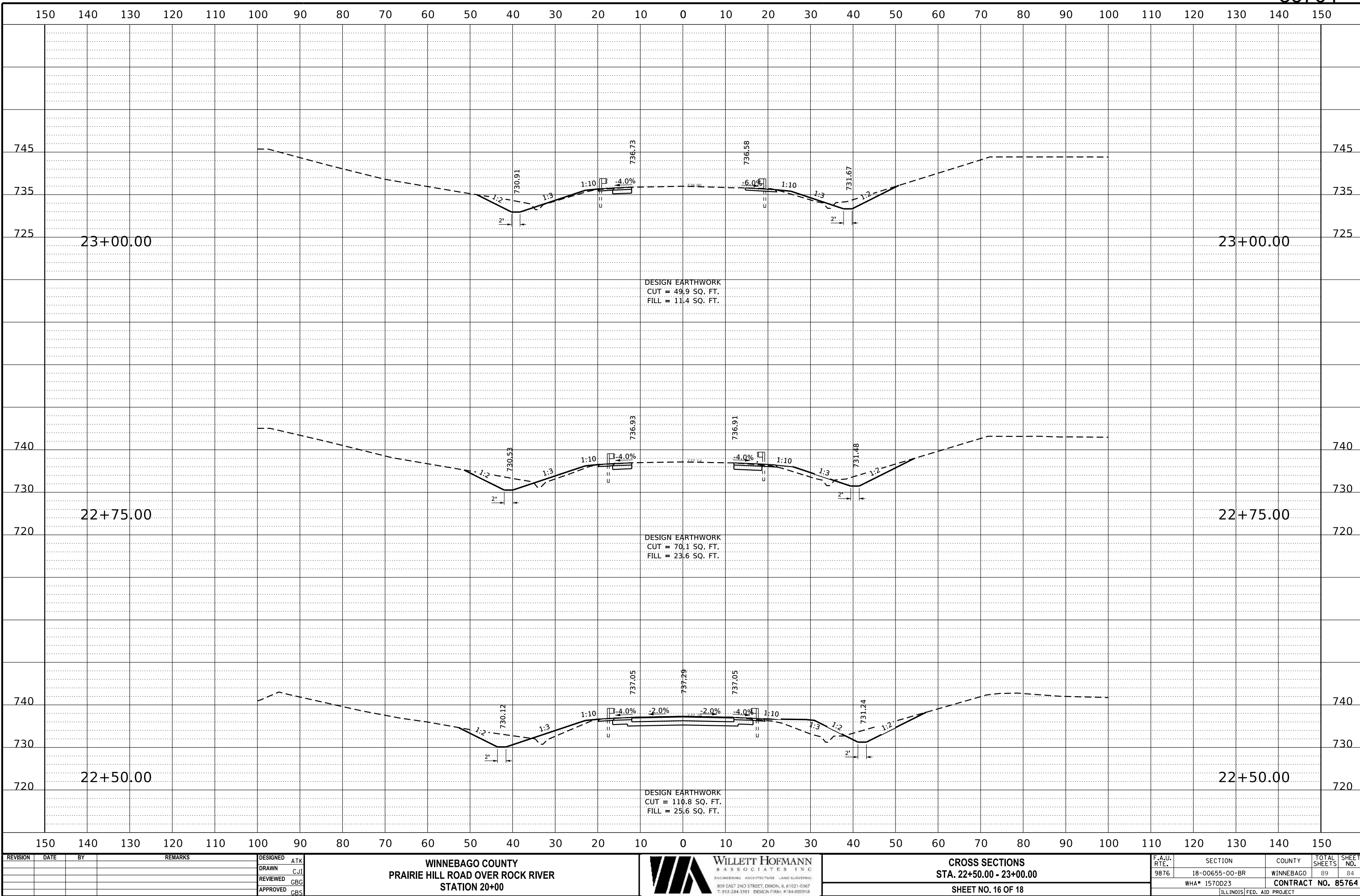
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REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	CJI
REVIEWED	GBG
APPROVED	GBS

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

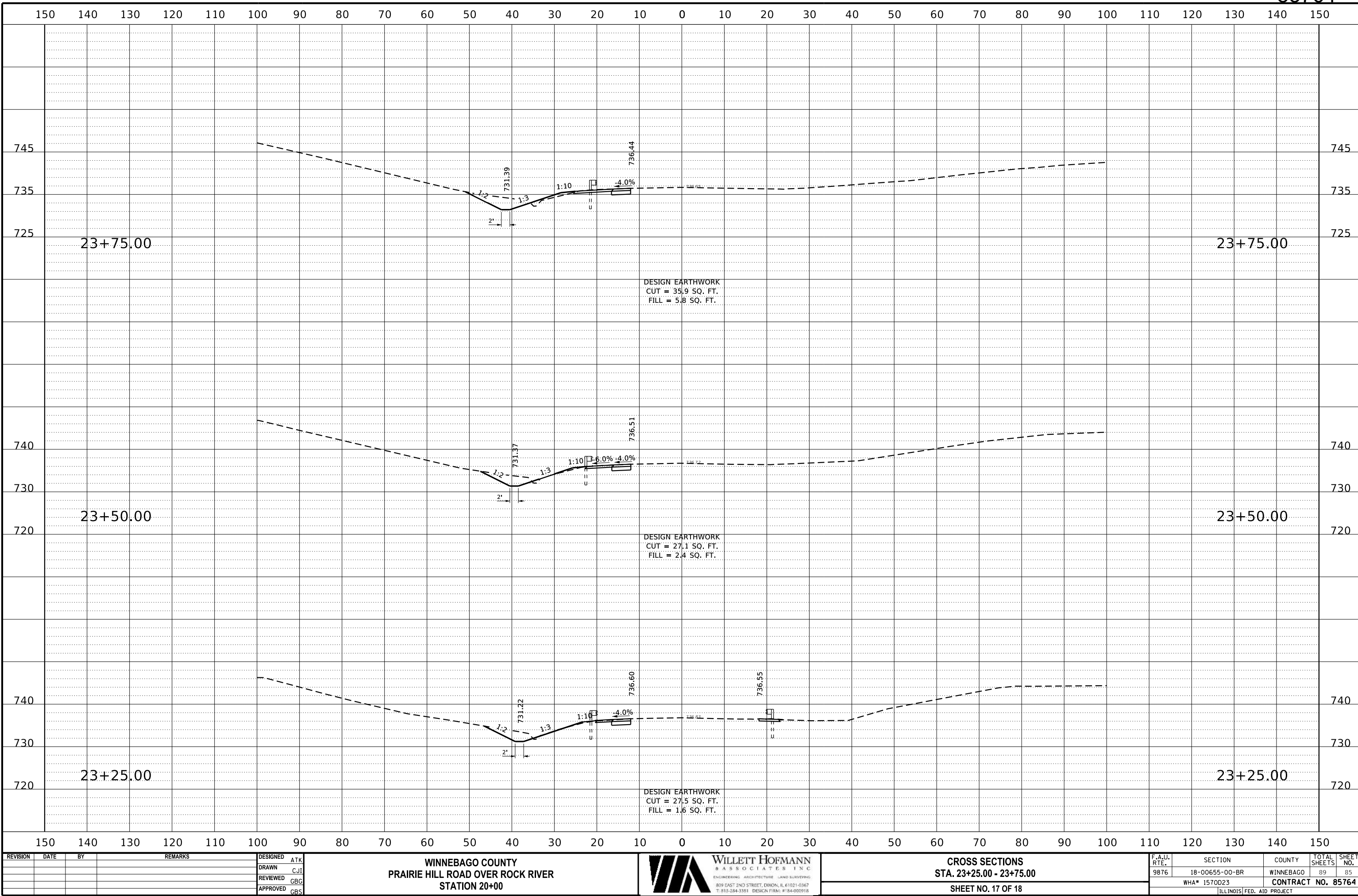


CROSS SECTIONS
STA. 22+50.00 - 23+00.00
SHEET NO. 16 OF 18

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	84
WHA* 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	CJI
REVIEWED	GBG
APPROVED	GBS

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

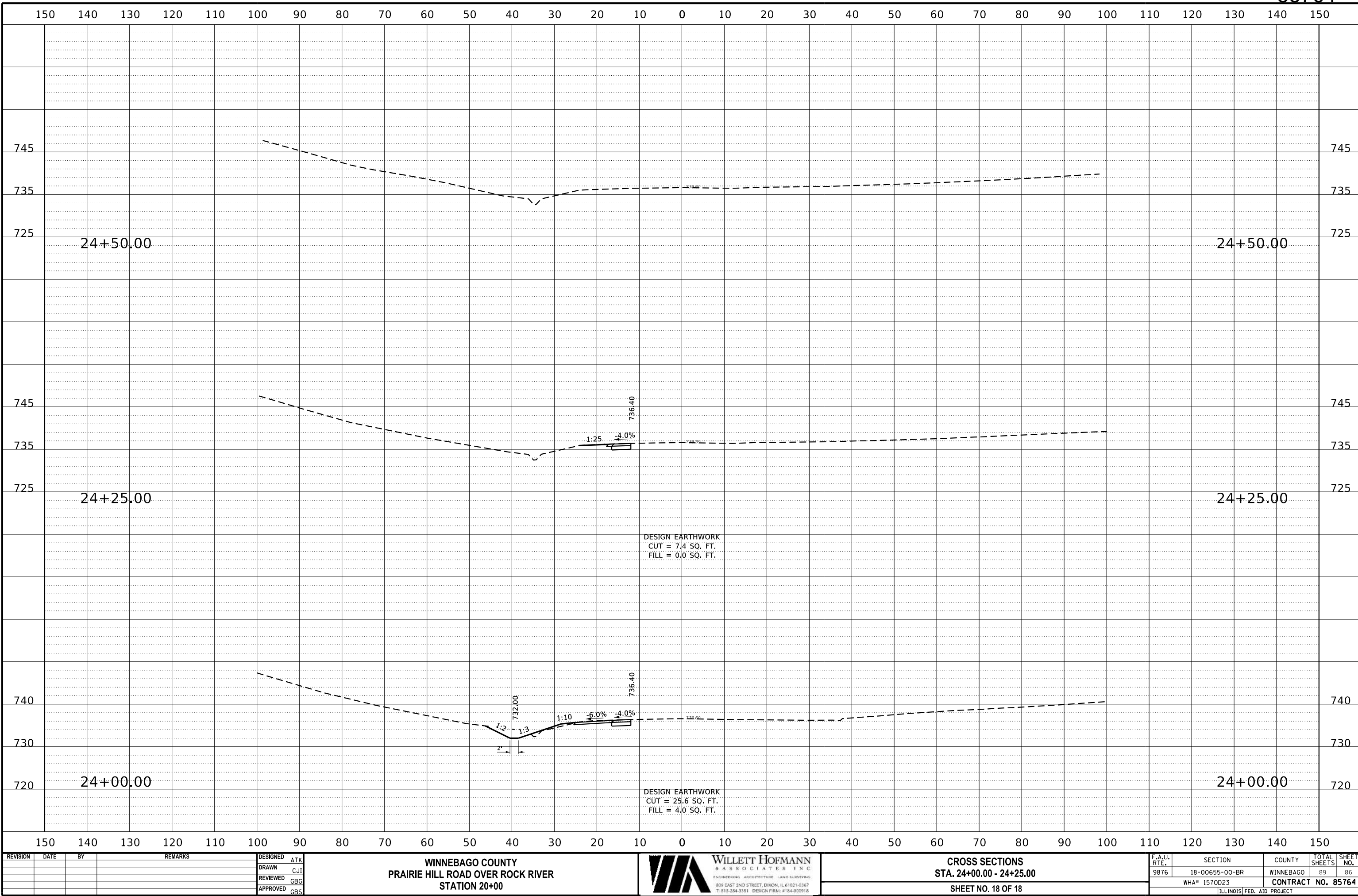


CROSS SECTIONS
STA. 23+25.00 - 23+75.00
SHEET NO. 17 OF 18

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	85
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

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REVISION	DATE	BY	REMARKS

DESIGNED	ATK
DRAWN	CJI
REVIEWED	GBG
APPROVED	GBS

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



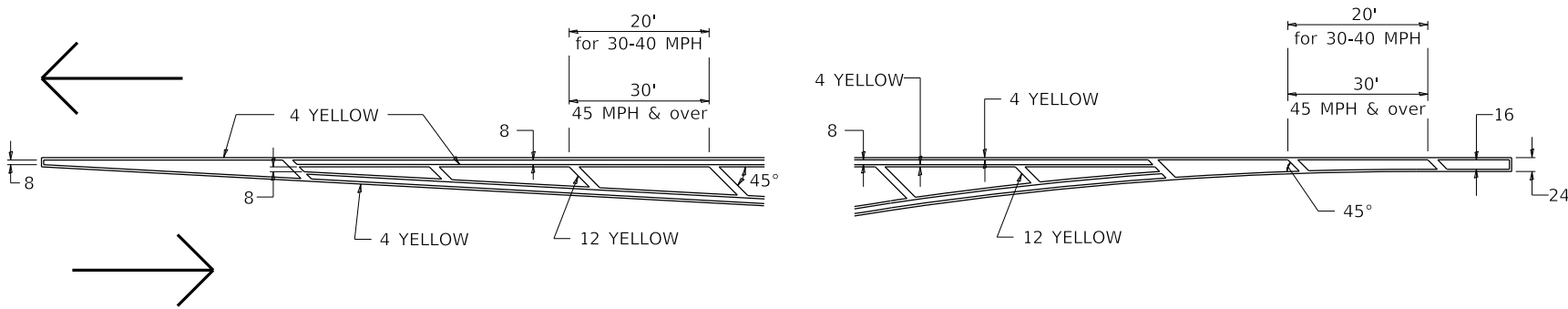
CROSS SECTIONS
STA. 24+00.00 - 24+25.00
SHEET NO. 18 OF 18

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	86
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

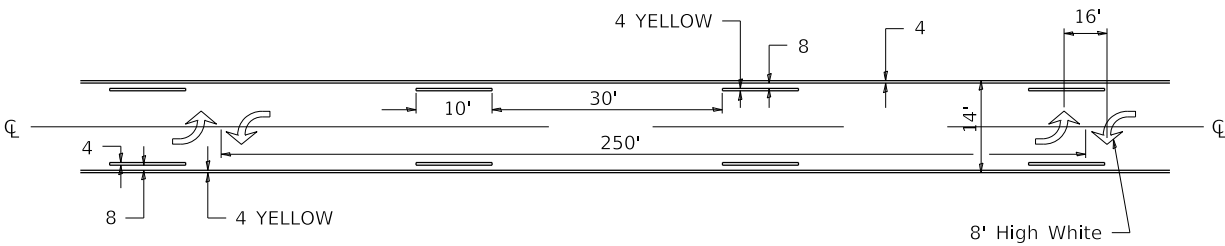
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TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN
AT LEFT TURN LANE

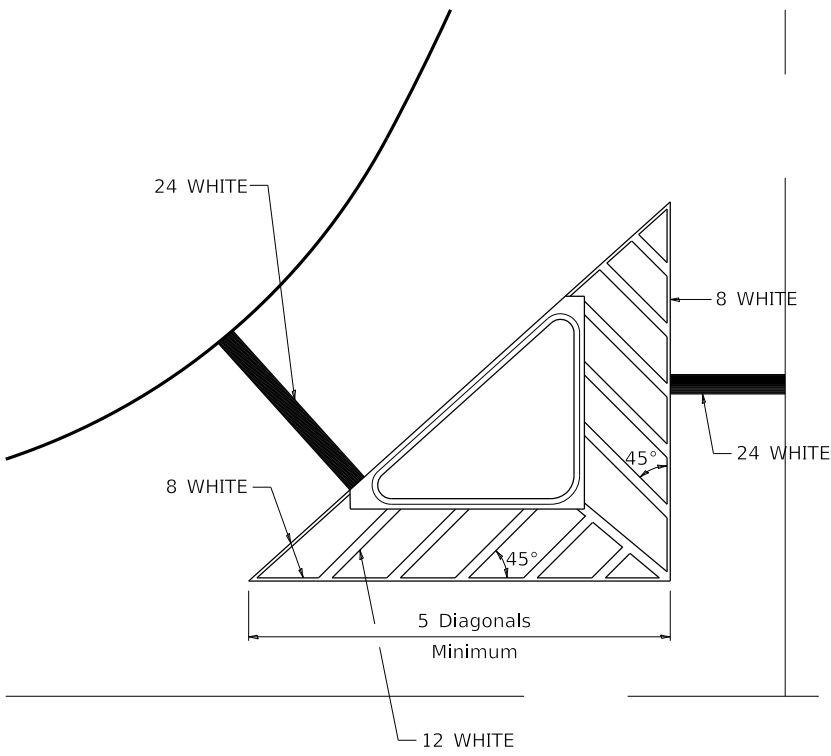


MEDIAN PAVEMENT MARKING



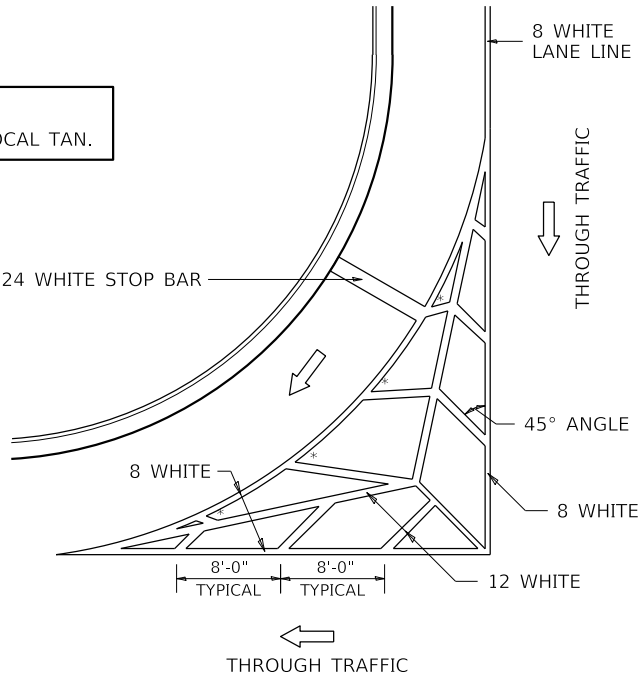
** ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND
OFFSET SHOULDER WIDTH



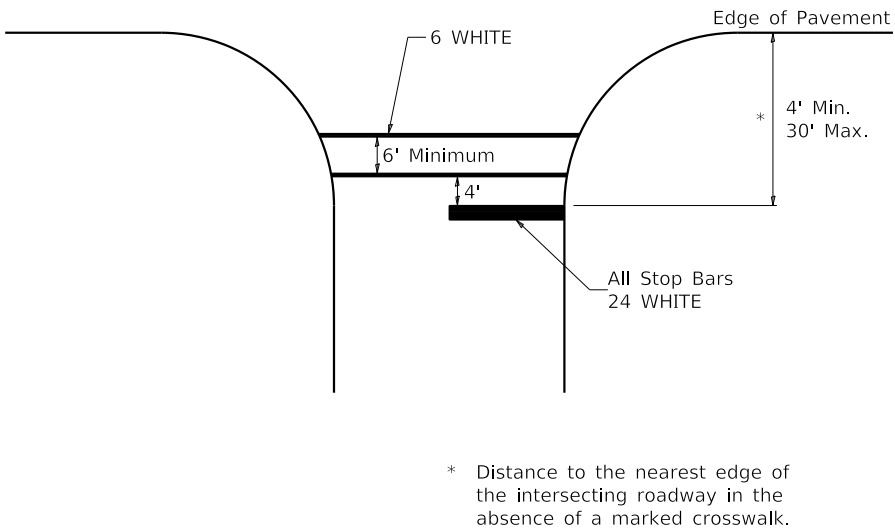
TYPICAL MARKING FOR
PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations



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REVISION	DATE	BY	REMARKS	DESIGNED	CJI
				DRAWN	CJI
				REVIEWED	XXX
				APPROVED	XXX

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00



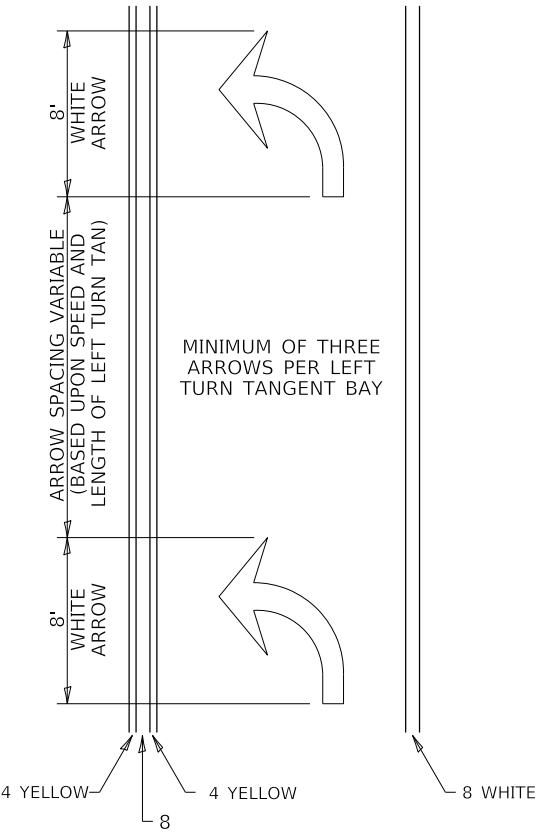
WILLET-HOFMANN
ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

REGION 2 / DISTRICT 2 STANDARD
TYPICAL PAVEMENT MARKINGS 41.1
SHEET 1 OF 3

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	87
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT



- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER
- TWO-WAY AMBER MARKER

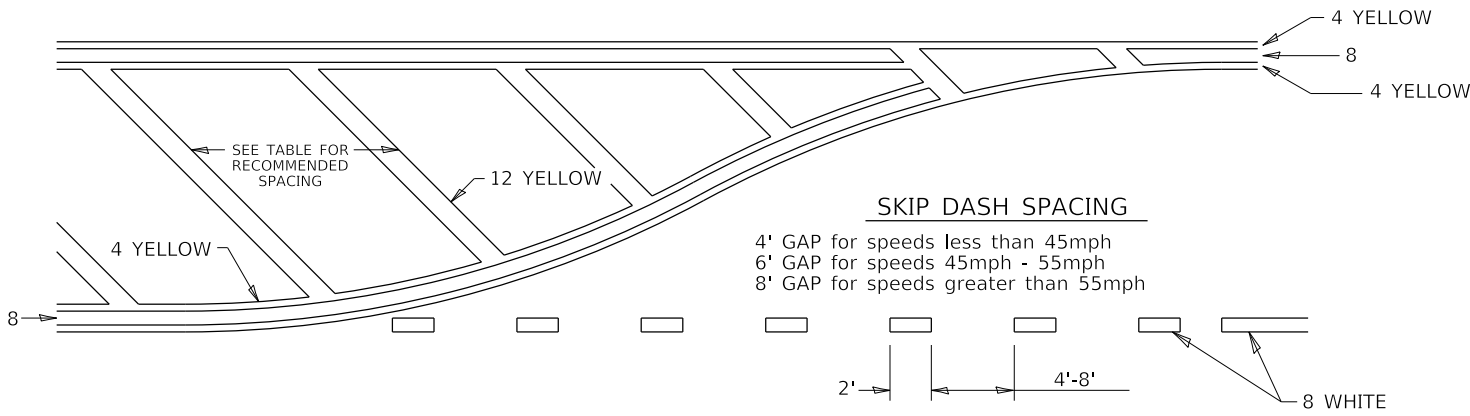
ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE NOTED.

6 at 40' O.C.
APPROACH SIDE ONLY

See Typical
Drawing at right

40' O.C.

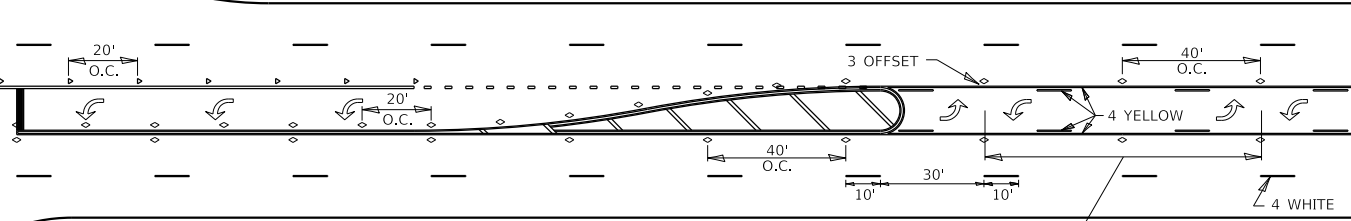
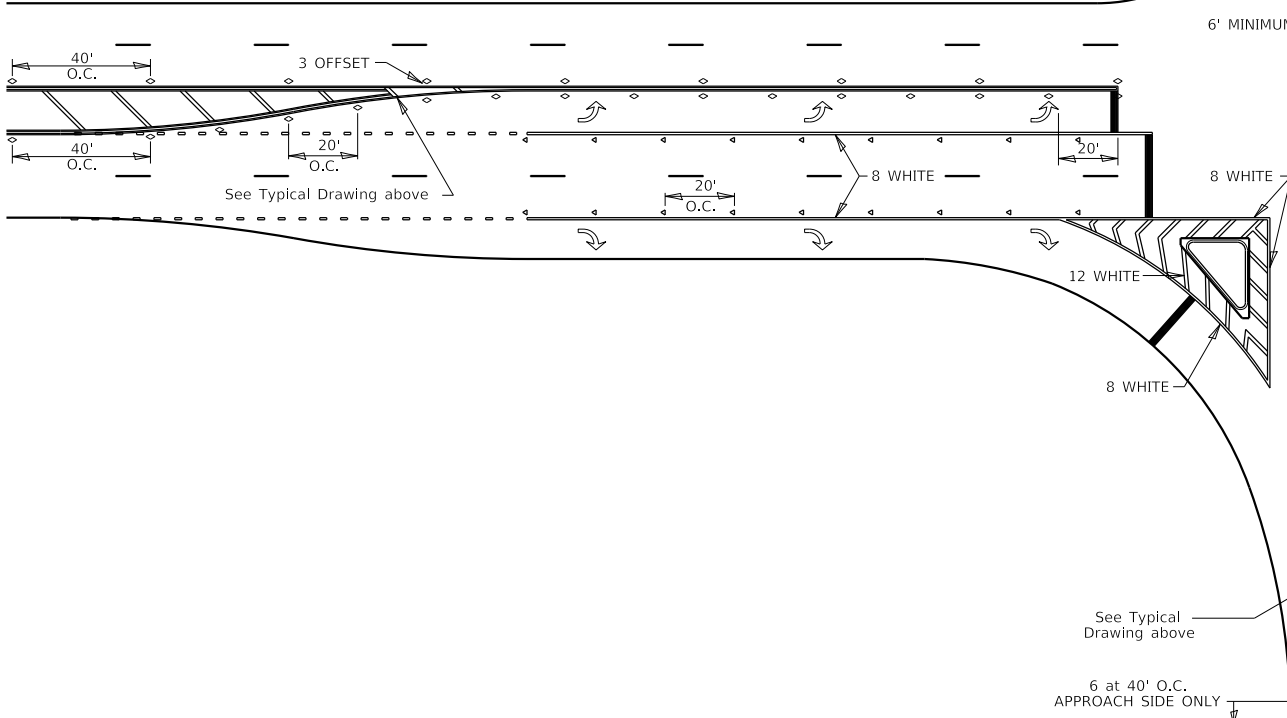
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



MINIMUM OF TWO PAIRS OF ARROWS.
ADDITIONAL PAIRS EVERY 200'-300'.

REVISION	DATE	BY	REMARKS	DESIGNED	CJI
				DRAWN	CJI
				REVIEWED	XXX
				APPROVED	XXX

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

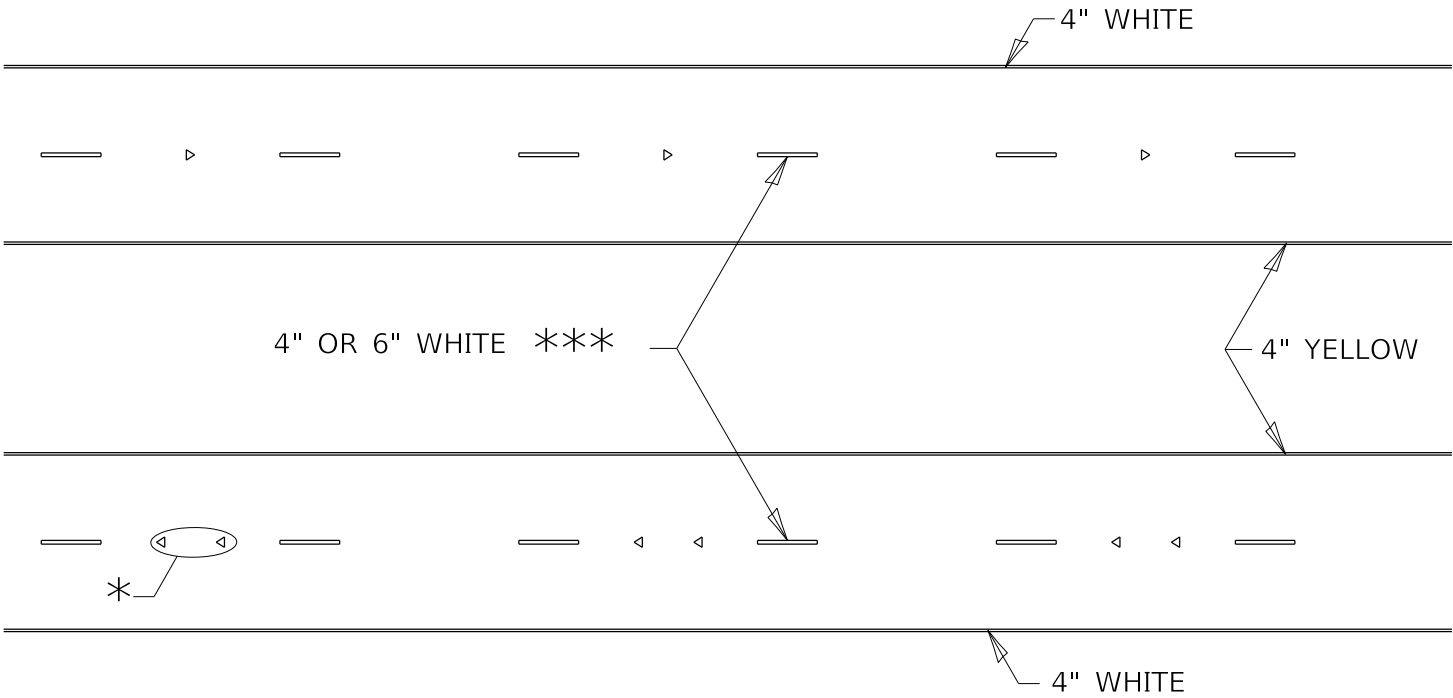
WILLETT HOFMANN & ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000918

REGION 2 / DISTRICT 2 STANDARD
TYPICAL PAVEMENT MARKINGS 41.1

SHEET 2 OF 3

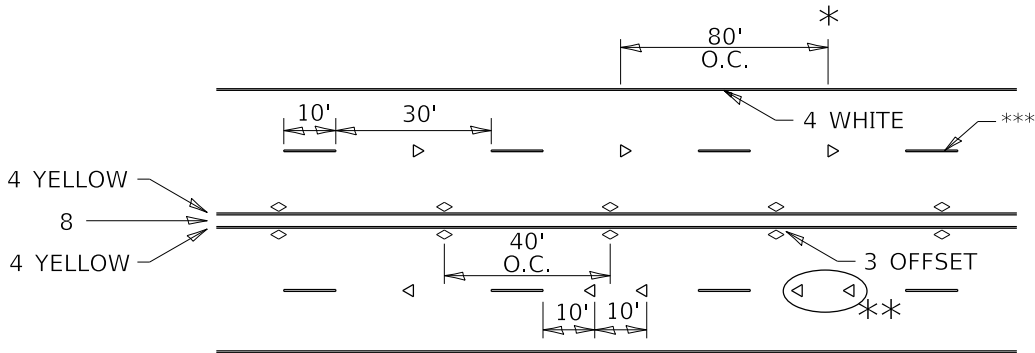
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	88
WHA# 1570D23		CONTRACT NO. 85764		
ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT ≥ 20,000.

MULTI-LANE / DIVIDED



* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

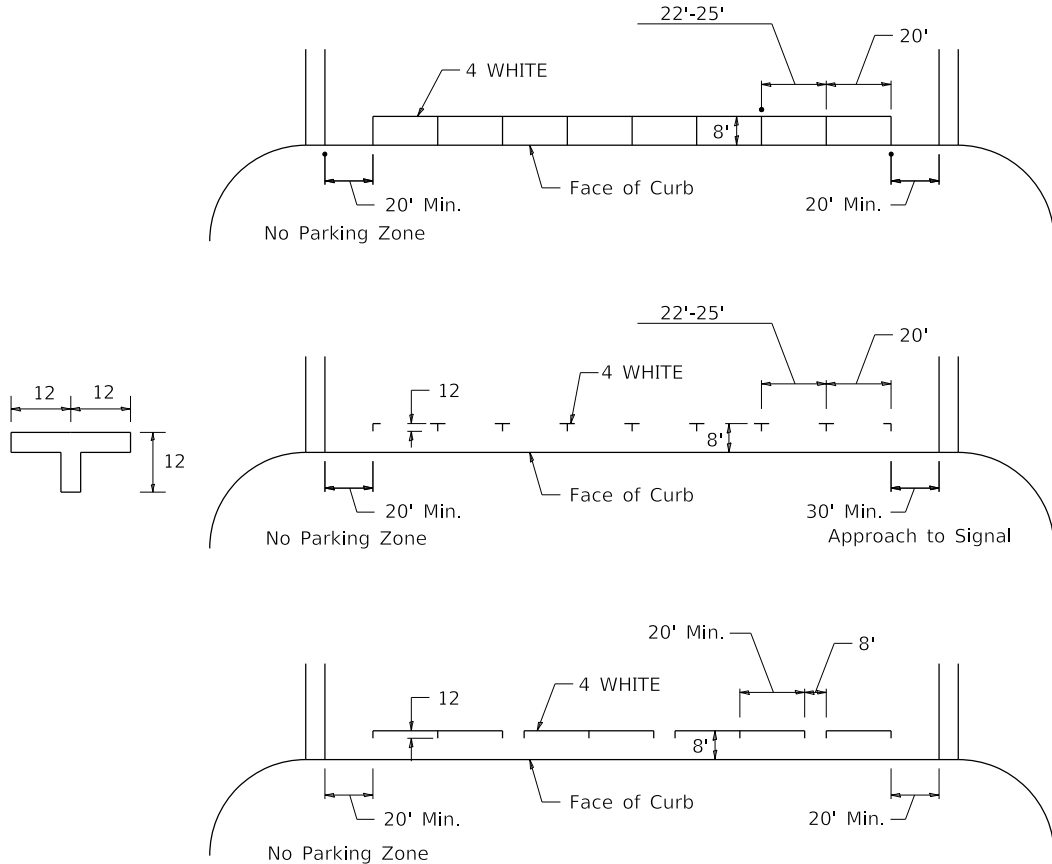
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

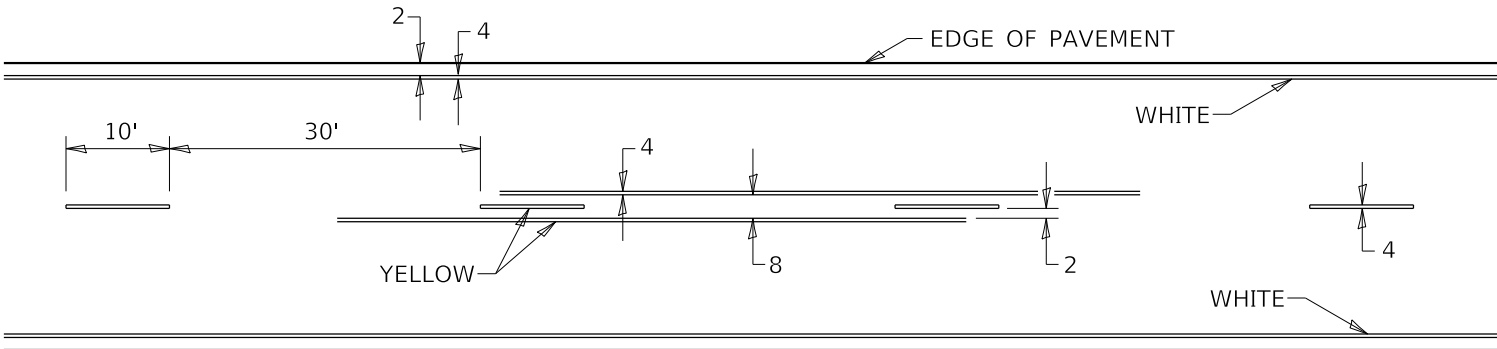
MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS
DETAIL NOT HIGHWAY STANDARD 781001)

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



SYMBOLS

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REVISION	DATE	BY	REMARKS	DESIGNED	CJI	DRAWN	CJI	REVIEWED	XXX	APPROVED	XXX	WINNEBAGO COUNTY PRAIRIE HILL ROAD OVER ROCK RIVER STATION 20+00	WILLET HOFMANN ASSOCIATES INC ENGINEERING ARCHITECTURE LAND SURVEYING 809 EAST 2ND STREET, DIXON, IL 61021-0367 T: 815-284-3351 DESIGN FIRM: #184-000918	REGION 2 / DISTRICT 2 STANDARD TYPICAL PAVEMENT MARKINGS 41.1	SHEET3 OF 3	F.A.A.U. RTE. 9876	SECTION 18-00655-00-BR WHA# 1570D23	COUNTY WINNEBAGO	TOTAL SHEETS 89	SHEET 89	CONTRACT NO. 85764	ILLINOIS FED. AID PROJECT
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