

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	1
		ILLINOIS	CONTRACT NO. 46923	

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

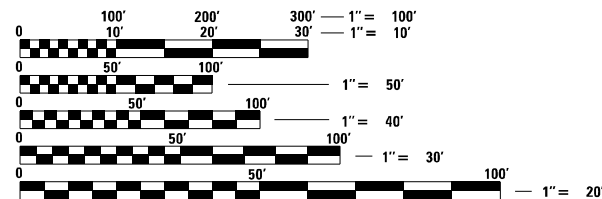
**KICKAPOO STATE PARK
KICKAPOO STRUCTURES 2021
BRIDGE REPAIR / REMOVAL
VERMILION COUNTY**

C-30-002-21
IDNR PROJECT 3-20-033

INDEX OF SHEETS

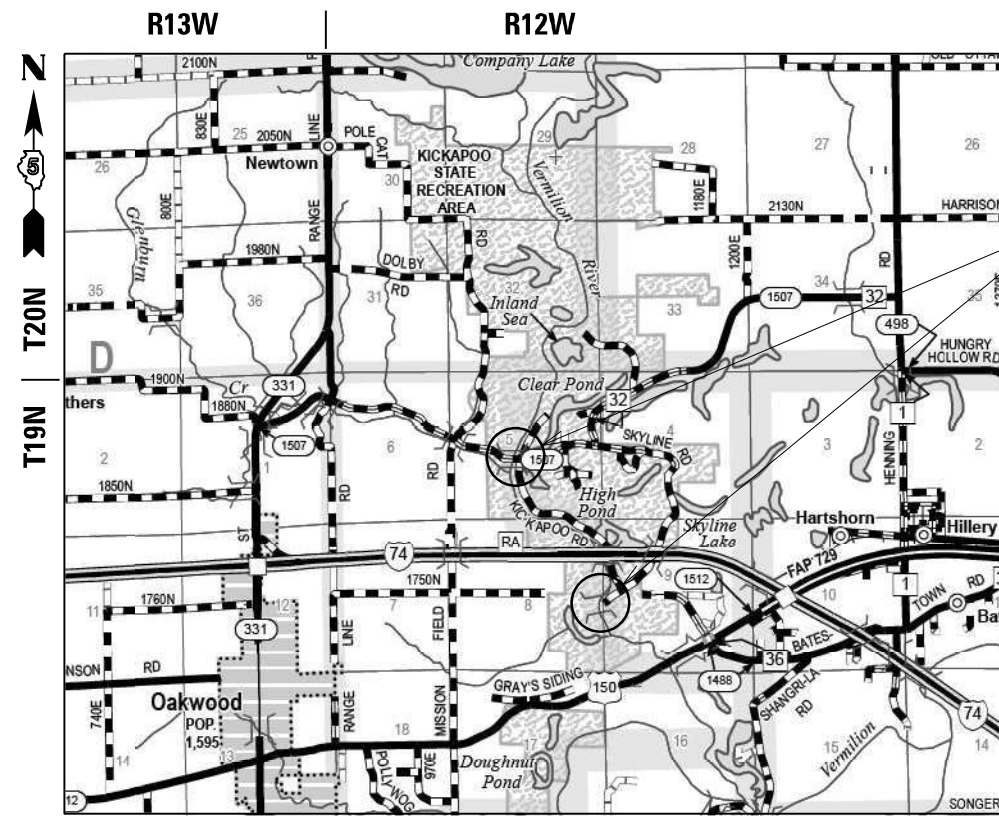
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FOR LIST OF STANDARDS, SEE SHEET NO. 2



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

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



LOCATION MAP
N.T.S.

GROSS LENGTH = 596.32 FT. = 0.113 MILES

NET LENGTH = 596.32 FT. = 0.113 MILES

Farnsworth
GROUP

2211 W. BRADLEY AVENUE
CHAMPAIGN, ILLINOIS 61821
(217) 352-7408 / info@f-w.com



Joseph G. Grimm 12/17/2021
JOSEPH G. GRIMM, P.E.
LICENSED PROFESSIONAL ENGINEER
ILLINOIS NO. 062-065119 EXPIRES 11-30-23
FARNSWORTH GROUP, INC.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED MARCH 25, 2022

SEA, etc
REGIONAL ENGINEER

March 25, 2022
SEA, etc
ENGINEER OF DESIGN AND ENVIRONMENT

March 25, 2022
Stephen M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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GENERAL NOTES

- 1. TREES THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. ANY TREE DUE TO ITS LOCATION AND DEEMED SUITABLE FOR SAVING BY THE ENGINEER SHALL BE PROTECTED DURING ANY OF THE CONTRACTOR'S ACTIVITIES.
- 2. EXISTING TREES AND TREE CANOPY SHALL BE PROTECTED/CLEARED ACCORDING TO ARTICLE 201. ANY BRANCHES BROKEN OR DAMAGED DURING CLEARING OR CONSTRUCTION OPERATIONS SHALL BE PRUNED ACCORDING TO ANSI A300 OR AT THE DIRECTION OF IDNR STAFF/BIOLOGIST. PRUNING SHALL BE INCLUDED IN THE COST OF OTHER ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 3. GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE OF THE ASSOCIATED PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 4. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES AND SHALL BE LIABLE FOR ANY DAMAGE TO THEM RESULTING FROM THEIR OPERATIONS.
- 5. ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- 6. HORIZONTAL COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 83 (1983).
- 7. THE TEMPORARY AGGREGATE ACCESS PATH FROM THE EXISTING ROAD TO THE RIVER ON THE NORTH SIDE OF THE BRIDGE SHALL BE REDUCED TO 8' WIDE AND LEFT IN PLACE AT THE END OF THE PROJECT FOR IDNR TO MAINTAIN AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 8. ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SEEDED AS DIRECTED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED AT THE CONTRACTOR'S EXPENSE.
- 9. WHEN EXISTING SIGNS TO BE REMOVED ARE TO BE REPLACED BY NEW SIGNS, THE NEW SIGNS SHALL BE COMPLETELY INSTALLED PRIOR TO THE REMOVAL OF THE EXISTING AND DUPLICATE SIGNS SHALL NOT EXIST FOR MORE THAN 24 HOURS.
- 10. ALL SAW CUTS, NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS, SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED.
- 11. ILLINOIS STATE LAW REQUIRES A 48 HOUR NOTICE TO BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

	BELOW GROUND	ABOVE GROUND
* ATT DISTRIBUTION X		
* AMEREN IP (NORTH) ATTN: NATHAN HILL 618-301-5327		X
* WINDSTREAM KDL/MCLEOD USA 800-289-1901	X	X

MEMBERS OF J.U.L.I.E. (800)-892-0123 ARE INDICATED BY *.
NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY. (NONE KNOWN)

COMMITMENTS

- 1. FIBER OPTIC CABLE OWNER SHALL TEMPORARILY REMOVE AND SUPPORT CONDUIT DURING CONSTRUCTION ON SN 092-9903. AFTER CONSTRUCTION ON SN 092-9903 IS COMPLETE, THE FIBER OPTIC OWNER SHALL REATTACH CONDUIT TO THE STRUCTURE. SHOP DRAWINGS FOR ATTACHING CONDUIT TO STRUCTURE SHALL BE PROVIDED TO AND APPROVED BY IDNR REGIONAL ENGINEER.
- 2. USGS REGION 3 GREAT LAKES OFFICE SHALL BE CONTACTED PRIOR TO START OF PROJECT TO ALLOW USGS TO TEMPORARILY REMOVE ANY MONITORING EQUIPMENT ON SN 092-9903 DURING CONSTRUCTION.
REGIONAL DIRECTOR: SCOTT MORLOCK
317-600-2753
5957 LAKESIDE BLVD.
INDIANAPOLIS, IN 46278

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
630001-12	STEEL PLATE BEAM GUARDRAIL
631031-17	TRAFFIC BARRIER TERMINAL, TYPE 6
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15', TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701321-18	LANE CLOSURE 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS, & DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATION OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BRL 17-4	TRAFFIC CONTROL DEVICES - DAY LABOR CONSTRUCTION
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 23-4	TRAFFIC BARRIER TERMINAL TYPE 1

RATES OF APPLICATION TABLE

AGGREGATE (SURFACE, BASE, SUBBASE OR BACKFILL) 2.05 TON / CU YD

HOT-MIX ASPHALT

- BITUMINOUS MATERIALS (TACK COAT) (ON EXIST. PAVEMENT) 0.05 LB / SQ FT
- BITUMINOUS MATERIALS (TACK COAT) (ON HMA LIFTS)..... 0.025 LB / SQ FT
- HOT-MIX ASPHALT SURFACE/ BINDER (112 LBS / SQ YD + IN) 0.056 TON / SQ YD + IN

SEEDING AREAS:

- NITROGEN FERTILIZER NUTRIENT 90 LBS / ACRE
- PHOSPHOROUS FERTILIZER NUTRIENT 90 LBS / ACRE
- POTASSIUM FERTILIZER NUTRIENT 90 LBS / ACRE

HMA MIXTURE REQUIREMENTS TABLE

LOCATION	PARK ROADS	PARK ROADS
MIXTURE USE:	TEMPORARY PAVEMENT/ HMA SHOULDERS	SURFACE COURSE
PG	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N _{DES} = 50	4.0% @ N _{DES} = 50
MIXTURE COMPOSITION (GRADATION)	IL 9.5	IL 9.5
FRICTION AGGREGATE	N/A	MIX C
MIXTURE WEIGHT	112	112
QUALITY MANAGEMENT PLAN	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, HIGHWAY STANDARDS, COMMITMENTS
KICKAPOO STATE PARK**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	2
CONTRACT NO.			46923	
ILLINOIS		FED. AID PROJECT		

100% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				BRIDGE	BRIDGE	ROADWAY
				0013 S.N. 092-9903	0044 S.N. 092-9904	0005 RURAL
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	32			32
20200100	EARTH EXCAVATION	CU YD	85			85
20400800	FURNISHED EXCAVATION	CU YD	158			158
Δ 21101600	TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH	SQ YD	203			203
Δ 21101630	TOPSOIL FURNISH AND PLACE, 8"	SQ YD	698			698
Δ 25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.4			0.4
Δ 25100630	EROSION CONTROL BLANKET	SQ YD	223			223
Δ 25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	474			474
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	19			19
28000400	PERIMETER EROSION BARRIER	FOOT	159			159
28000500	INLET AND PIPE PROTECTION	EACH	1			1
28100107	STONE RIPRAP, CLASS A4	SQ YD	242	242		
28200200	FILTER FABRIC	SQ YD	242	242		
35101400	AGGREGATE BASE COURSE, TYPE B	TON	4			4
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2			2
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	2			2
44000100	PAVEMENT REMOVAL	SQ YD	259	10		249
44004250	PAVED SHOULDER REMOVAL	SQ YD	15	15		

* PAY ITEMS WITH SPECIAL PROVISION

Δ SPECIALTY ITEM

100% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				BRIDGE	BRIDGE	ROADWAY
				0013 S.N. 092-9903	0044 S.N. 092-9904	0005 RURAL
48203100	HOT-MIX ASPHALT SHOULDERS	TON	8			8
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1	
50102400	CONCRETE REMOVAL	CU YD	1.8	1.8		
50200100	STRUCTURE EXCAVATION	CU YD	22	22		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	9.6	9.6		
50300300	PROTECTIVE COAT	SQ YD	45	45		
50606701	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 1	L SUM	1	1		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	800	800		
50900105	ALUMINUM RAILING, TYPE L	FOOT	377	377		
58600101	GRANULAR BACKFILL FOR STRUCTURESS	CU YD	14	14		
58700300	CONCRETE SEALER	SQ FT	406	406		
Δ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	25			25
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1		
Δ 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2			2
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
63200310	GUARDRAIL REMOVAL	FOOT	415			415
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6		
67000500	ENGINEERS FIELD OFFICE, TYPE B	CAL MO	12	6	6	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	325	325		
67100100	MOBILIZATION	L SUM	1	0.5	0.5	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	325	325		
Δ 72000100	SIGN PANEL - TYPE 1	SQ FT	12			12
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW) TEST LEVEL 2	EACH	2	2		
Δ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2			2
70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW) TEST LEVEL 2	EACH	2	2		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
KICKAPOO STATE PARK

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	3
CONTRACT NO. 46923			ILLINOIS FED. AID PROJECT	

100% STATE

100% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				BRIDGE 0013	BRIDGE 0044	ROADWAY 0005
				S.N. 092-9903	S.N. 092-9904	RURAL
Δ	7200100	TELESCOPING STEEL SIGN SUPPORT	FOOT	39		39
Δ	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8		8
Δ	A2006516	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	2		2
Δ	A2001016	TREE, ACER RUBRUM (RED MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	2		2
Δ	A2005816	TREE, PLATANUS OCCIDENTALIS (SYCAMORE), 2" CALIPER, BALLED AND BURLAPPED	EACH	2		2
Δ	A2006316	TREE, PRUNUS SEROTINA (BLACK CHERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	2		2
Δ	C2001136	SHRUB, CEPHALANTHUS OCCIDENTALIS (BUTTON BUSH), 3' HEIGHT, BALLED AND BURLAPPED	EACH	2		2
Δ	C2003936	SHRUB, ILEX VERTICILLATA WINTER RED (WINTER RED WINTERBERRY), 3' HEIGHT, BALLED AND BURLAPPED	EACH	2		2
Δ	C2011736	SHRUB, VIBURNUM DENTATUM (ARROWWOOD VIBURNUM), 3' HEIGHT, BALLED AND BURLAPPED	EACH	2		2
Δ *	X2300007	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	2		2
*	X0300249	REMOVE EXISTING GATE	EACH	1		1
*	X0301430	PRECAST CONCRETE PARKING BLOCK	EACH	5		5
*	X0322469	PLUG EXISTING FLOOR DRAINS	EACH	38	38	
*	X0323013	TUBULAR STEEL GATE	EACH	1		1
*	X0323491	SLOPE WALL CRACK SEALING	FOOT	91	91	
*	X0324061	LOG JAM REMOVAL	L SUM	1		1
*	X5030530	FLOOR DRAIN EXTENSION	EACH	20	20	
*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		1

* PAY ITEMS WITH SPECIAL PROVISION

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				BRIDGE 0013	BRIDGE 0044	ROADWAY 0005
				S.N. 092-9903	S.N. 092-9904	RURAL
*	Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1	
*	Z0012102	CONCRETE BRIDGE DECK SCARIFICATION 3/8 INCH	SQ YD	591	591	
*	Z0012193	BRIDGE DECK THIN POLYMER OVERLAY 3/8"	SQ YD	591	591	
*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5	0.5
*	Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	2	2	
*	Z0053750	RETROFIT CONCRETE PARAPET	FOOT	381	381	
*	Z0065700	SLOPE WALL REPAIR	SQ YD	16	16	
*	Z0065730	SLOPE WALL SLURRY PUMPING	CU YD	5	5	

Δ SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
KICKAPOO STATE PARK			
SCALE: NO SCALE	SHEET 2 OF 2 SHEETS	STA.	TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 46923	

REMOVAL							
LOCATION		OFFSET	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	PAVEMENT REMOVAL	GUARDRAIL REMOVAL	REMOVE EXISTING GATE	
STATION	TO	STATION	LT/RT	20100110 UNIT	44000100 SQ YD	63200310 FOOT	X0300249 EACH
2+46.20	TO	3+23.30	LT/RT		150		
		3+20.80	RT	12			
		3+48.15	RT	10			
		5+50.40	RT	10			
5+64.78	TO	6+14.79	LT/RT		99		
2+82.62	TO	3+20.64	RT			38	
2+83.72	TO	3+21.09	LT			38	
5+67.16	TO	6+04.95	LT			38	
5+67.37	TO	6+05.14	RT			38	
24+30.28	TO	25+01.40	RT			78	
24+56.94	TO	25+10.01	LT			53	
26+95.93	TO	27+47.67	RT			53	
27+02.48	TO	27+83.65	LT			79	
INTERSECTION OF POND NO. 6 RD. & CR 1180 E. RD.				CL			1
TOTAL					32	249	415

GUARDRAIL								
LOCATION		OFFSET	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A	TRAFFIC BARRIER TERMINAL, TYPE 1	
STATION	TO	STATION	LT/RT	63000001 FOOT	63100085 EACH	72501000 EACH	78200005 EACH	LR631020 EACH
24+20.25			RT			1		
24+20.25	TO	24+44.95	RT					1
24+20.25	TO	24+96.85	RT				4	
24+44.95	TO	24+57.45	RT	12.5				
24+57.45	TO	24+96.85	RT		1			
27+08.94	TO	27+49.34	LT		1			
27+08.94	TO	27+86.54	LT				4	
27+49.34	TO	27+61.84	LT	12.5				
27+61.84	TO	27+86.54	LT					1
27+86.54			LT			1		
TOTAL				25	2	2	8	2

MISCELLANEOUS					
LOCATION		OFFSET	PRECAST CONCRETE PARKING BLOCK	TUBULAR STEEL GATE	
STATION	TO	STATION	LT/RT	X0301430 EACH	X0323013 EACH
2+82.62	TO	3+20.64	RT		
2+83.72	TO	3+21.09	LT		
5+67.16	TO	6+04.95	LT		
5+67.37	TO	6+05.14	RT		
24+30.28	TO	25+01.40	RT		
24+56.94	TO	25+10.01	LT		
26+95.93	TO	27+47.67	RT		
27+02.48	TO	27+83.65	LT		
INTERSECTION OF POND NO. 6 RD. & CR 1180 E. RD.				CL	
CONCESSIONS PARKING LOT					1
TOTAL				5	1

PAVEMENT							
LOCATION		OFFSET	AG GREGGATE BASE COURSE, TYPE B	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	HOT-MIX ASPHALT SHOULDERS	
STATION	TO	STATION	LT/RT	35101400 TON	40600290 POUND	40604050 TON	48203100 TON
24+89.09	TO	25+04.09	RT	1	1	1	3
27+01.60	TO	27+16.78	LT	3	1	1	5
TOTAL				4	2	2	8

STAGING ITEMS					
LOCATION	TEMPORARY RUMBLE STRIPS	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
	70106700 EACH	70400100 FOOT	70400200 FOOT	70600255 EACH	70600322 EACH
STAGE 1	6	325		2	
STAGE 2			325		2
TOTAL	6	325	325	2	2

PEN TABLE: IDOTSSZ_Standard Project Per-Id
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 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com
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 DATE - 12/17/2021

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
KICKAPOO STATE PARK

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	5
CONTRACT NO. 46923			ILLINOIS FED. AID PROJECT	

EARTHWORK						
LOCATION			1	2	3	4
				[1] X [1 - 0.25]		[3] - [2]
20200100			NO PAY ITEM	NO PAY ITEM	NO PAY ITEM	20400800
EARTH EXCAVATION			MATERIALS TO BE USED IN EMBANK. (ADJUST. FOR SHRINKAGE)	EMBANKMENT	FURNISHED EXCAVATION	
STATION	TO	STATION	(CU YD)	(CU YD)	(CU YD)	(CU YD)
POND NO. 6 ACCESS ROAD						
2+46.20	TO	3+68.73	42	31	53	22
5+24.21	TO	6+14.80	43	32	168	136
TOTAL			85	64	221	158

EROSION CONTROL								
LOCATION			OFFSET	EROSION CONTROL BLANKET	HEAVY DUTY EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION
STATION	TO	STATION	LT/RT	25100630	25100635	28000250	28000400	28000500
				SQ YD	SQ YD	POUND	FOOT	EACH
2+46.20	TO	3+15.18	LT/RT	136		3		
5+70.95	TO	6+14.80	LT/RT	87		2		
3+15.18	TO	3+75.97	LT/RT		287	6		
5+23.15	TO	5+70.95	LT/RT		187	4		
23+85.16	TO	24+91.91	RT			2		
23+99.81	TO	24+91.87	RT				95	
24+04.78			RT					1
27+09.92	TO	28+21.22	LT			2		
27+11.16	TO	27+74.41	LT				64	
TOTAL				223	474	19	159	1

SIGNAGE									
LOCATION							SIGN PANEL - TYPE 1	TELESCOPING STEEL SIGN SUPPORT	
							72000100	72800100	
STATION	LOCATION	OFFSET	MUTCD#	CUSTOM	WIDTH (INCH)	HEIGHT (INCH)	SIGN DESCRIPTION	SQ FT	FOOT
2+47.61		6.0' LT	OM4-2	-	18	18	TYPE 4 OBJECT MARKER	2.3	12.5
2+47.61		0.0'	R11-1100	-	36	30	ROAD ENDS	7.5	13.5
2+47.61		6.0' RT	OM4-2	-	18	18	TYPE 4 OBJECT MARKER	2.3	12.5
TOTAL								12	39

LANDSCAPING														
LOCATION			OFFSET	TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH	TOPSOIL FURNISH AND PLACE, 8"	AGRICULTURAL GROUND LIMESTONE	SEEDING, CLASS 2	SEEDING CLASS, 4A	ZONE 1 SWITCH GRASS & OATS	ZONE 2 FLOODPLAIN SEED MIX	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH METHOD 2
STATION	TO	STATION	LT/RT	21101600	21101630	25000700	FOR INFORMATION ONLY							
				SQ YD	SQ YD	TON	ACRE	ACRE	ACRE	ACRE	POUND	POUND	POUND	ACRE
2+46.20	TO	3+75.97	LT/RT		423	0.17		0.028	0.044	0.015				
5+23.15	TO	6+14.80	LT/RT		275	0.11		0.018	0.028	0.010				
23+85.16	TO	24+91.91	RT	105		0.04	0.022				2	2	2	0.022
27+09.92	TO	28+21.22	LT	98		0.04	0.020				2	2	2	0.020
TOTAL				203	698	0.4	0.04	0.05	0.07	0.03	4	4	4	0.04

AGRICULTURAL GROUND LIMESTONE ROUNDED TO NEAREST 0.1 TON

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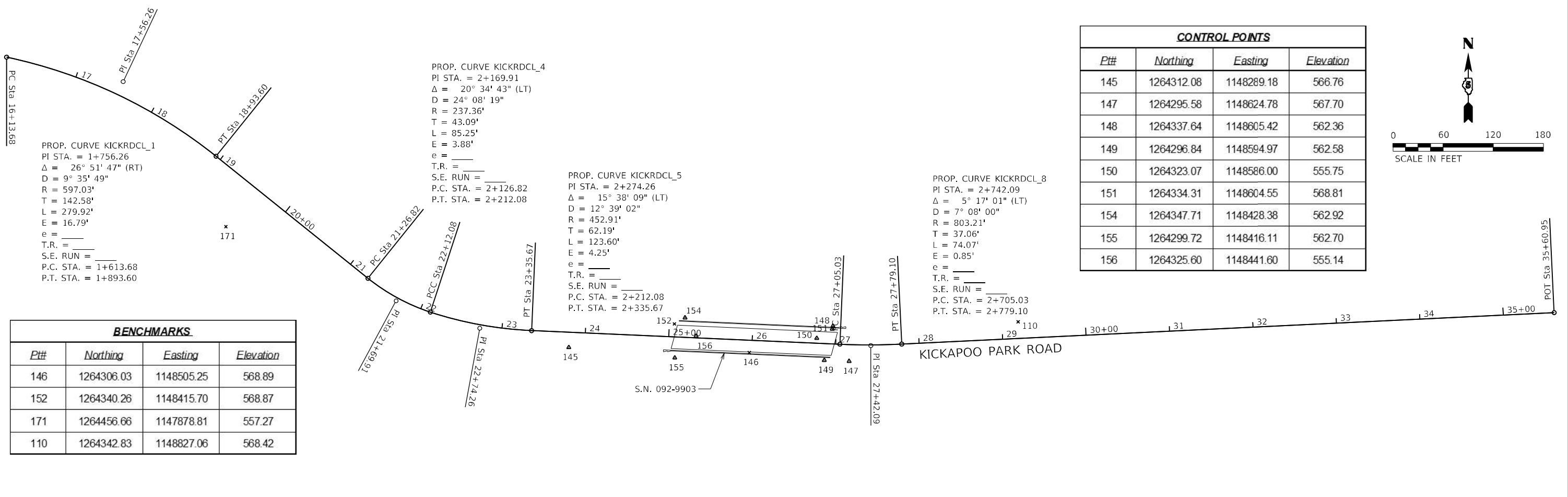
DESIGNED - JGG
 DRAWN - SRL
 CHECKED - GAC
 DATE - 12/17/2021

REVISED
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 DEPARTMENT OF TRANSPORTATION

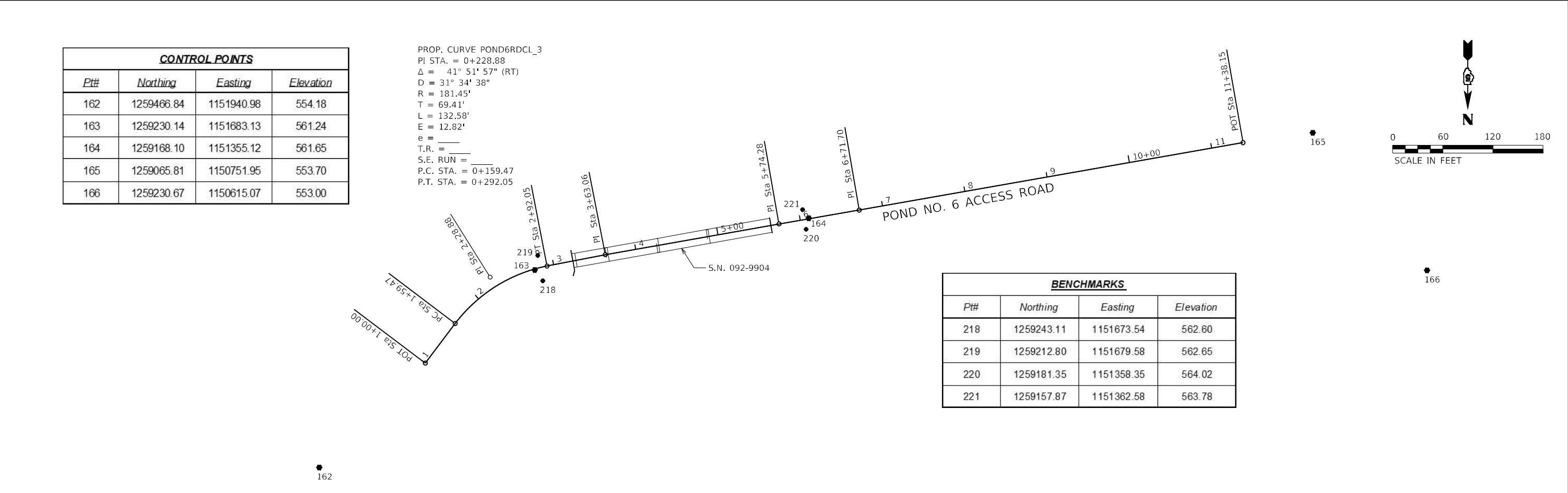
SCHEDULE OF QUANTITIES
 KICKAPOO STATE PARK
 SCALE: NO SCALE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	6
CONTRACT NO. 46923				
ILLINOIS		FED. AID PROJECT		



CONTROL POINTS			
Pt#	Northing	Easting	Elevation
145	1264312.08	1148289.18	566.76
147	1264295.58	1148624.78	567.70
148	1264337.64	1148605.42	562.36
149	1264296.84	1148594.97	562.58
150	1264323.07	1148586.00	555.75
151	1264334.31	1148604.55	568.81
154	1264347.71	1148428.38	562.92
155	1264299.72	1148416.11	562.70
156	1264325.60	1148441.60	555.14

BENCHMARKS			
Pt#	Northing	Easting	Elevation
146	1264306.03	1148505.25	568.89
152	1264340.26	1148415.70	568.87
171	1264456.66	1147878.81	557.27
110	1264342.83	1148827.06	568.42



CONTROL POINTS			
Pt#	Northing	Easting	Elevation
162	1259466.84	1151940.98	554.18
163	1259230.14	1151683.13	561.24
164	1259168.10	1151355.12	561.65
165	1259065.81	1150751.95	553.70
166	1259230.67	1150615.07	553.00

BENCHMARKS			
Pt#	Northing	Easting	Elevation
218	1259243.11	1151673.54	562.60
219	1259212.80	1151679.58	562.65
220	1259181.35	1151358.35	564.02
221	1259157.87	1151362.58	563.78

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 CHAMPAIGN, ILLINOIS 61821
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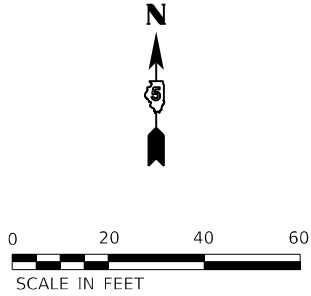
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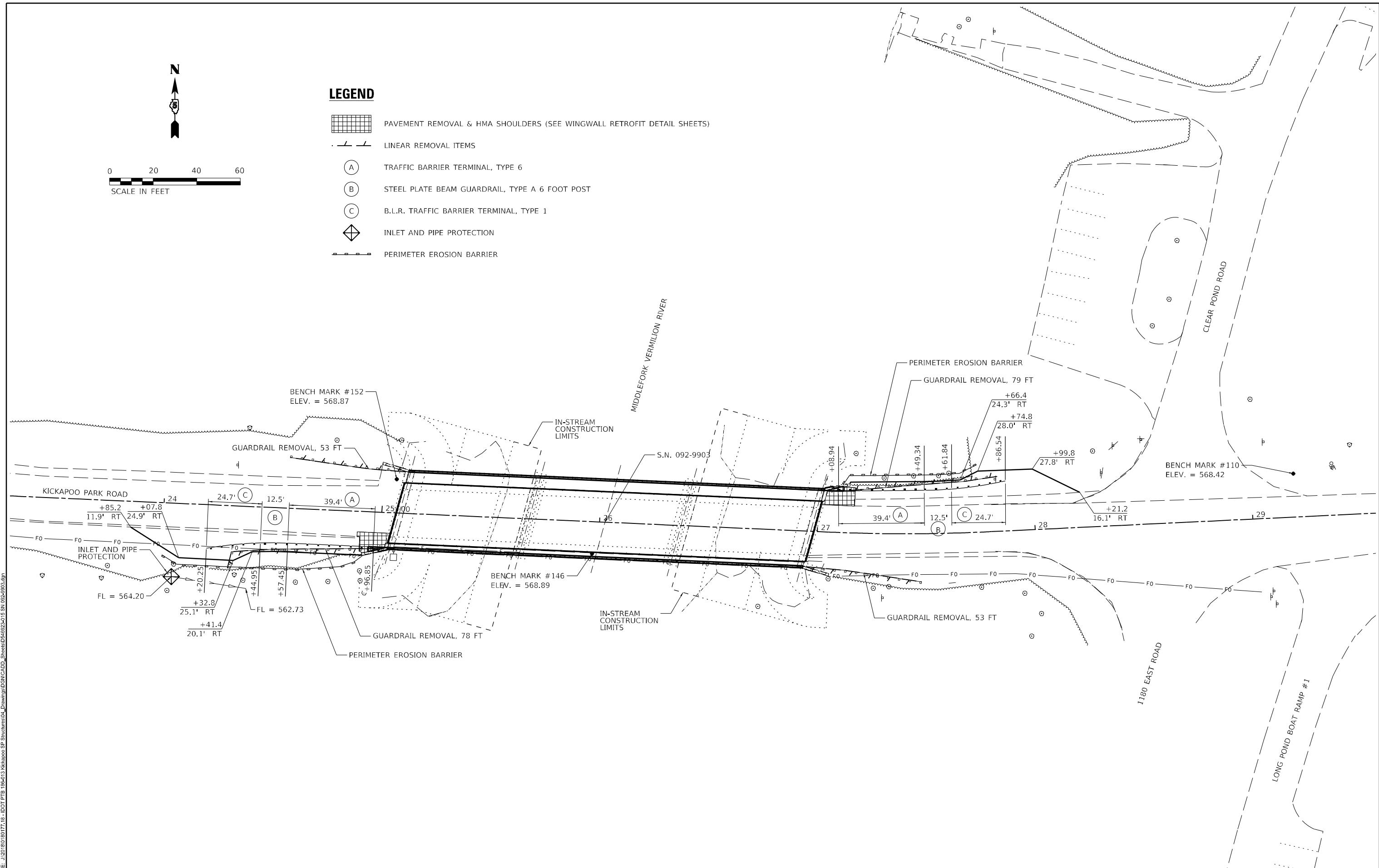
ALIGNMENT, TIES & BENCHMARKS
KICKAPOO STATE PARK

SCALE: AS NOTED SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	7
CONTRACT NO.			46923	
ILLINOIS FED. AID PROJECT				



- LEGEND**
- PAVEMENT REMOVAL & HMA SHOULDERS (SEE WINGWALL RETROFIT DETAIL SHEETS)
 - LINEAR REMOVAL ITEMS
 - TRAFFIC BARRIER TERMINAL, TYPE 6
 - STEEL PLATE BEAM GUARDRAIL, TYPE A 6 FOOT POST
 - B.L.R. TRAFFIC BARRIER TERMINAL, TYPE 1
 - INLET AND PIPE PROTECTION
 - PERIMETER EROSION BARRIER



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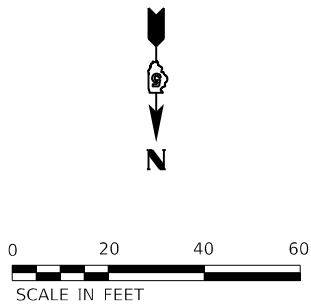
Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@fw.com

USER NAME = jgrimm	DESIGNED - JGG	REVISED
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DEPARTMENT OF TRANSPORTATION

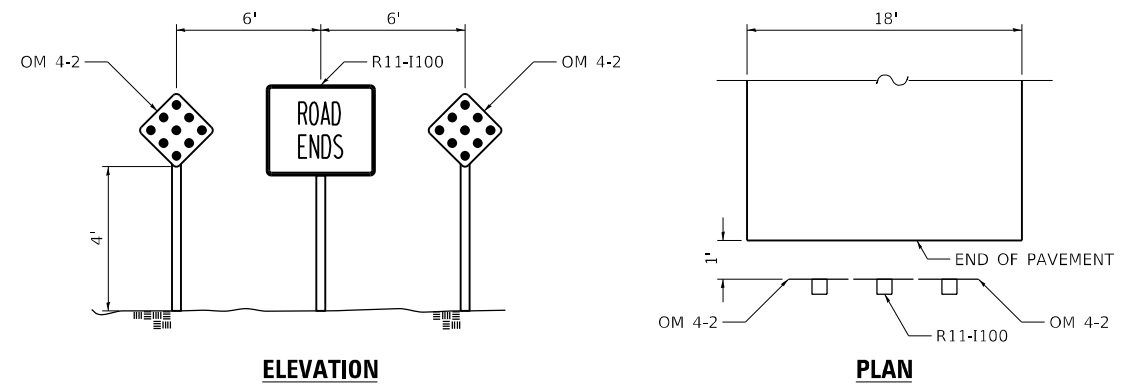
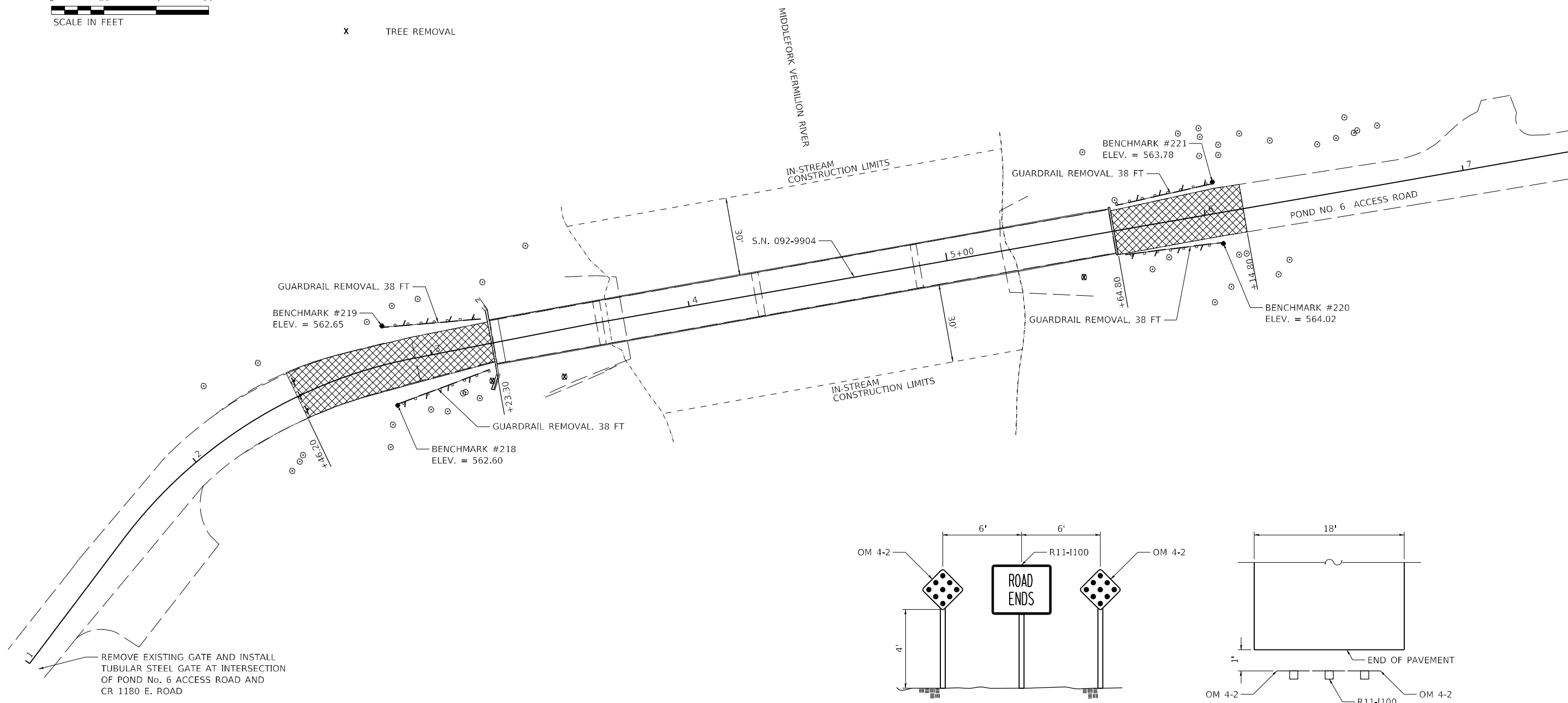
KICKAPOO PARK ROAD PLAN KICKAPOO STATE PARK	
SCALE: 1" = 20'	TO STA.
SHEET 1 OF 1 SHEETS	STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	8
CONTRACT NO. 46923				
ILLINOIS FED. AID PROJECT				



LEGEND

- PAVEMENT REMOVAL
- LINEAR REMOVAL ITEMS
- TREE REMOVAL



ROAD ENDS SIGNAGE DETAIL

NTS
STA. 2+47.20

PEN TABLE: DOTSSZ_Standard Project Pen and
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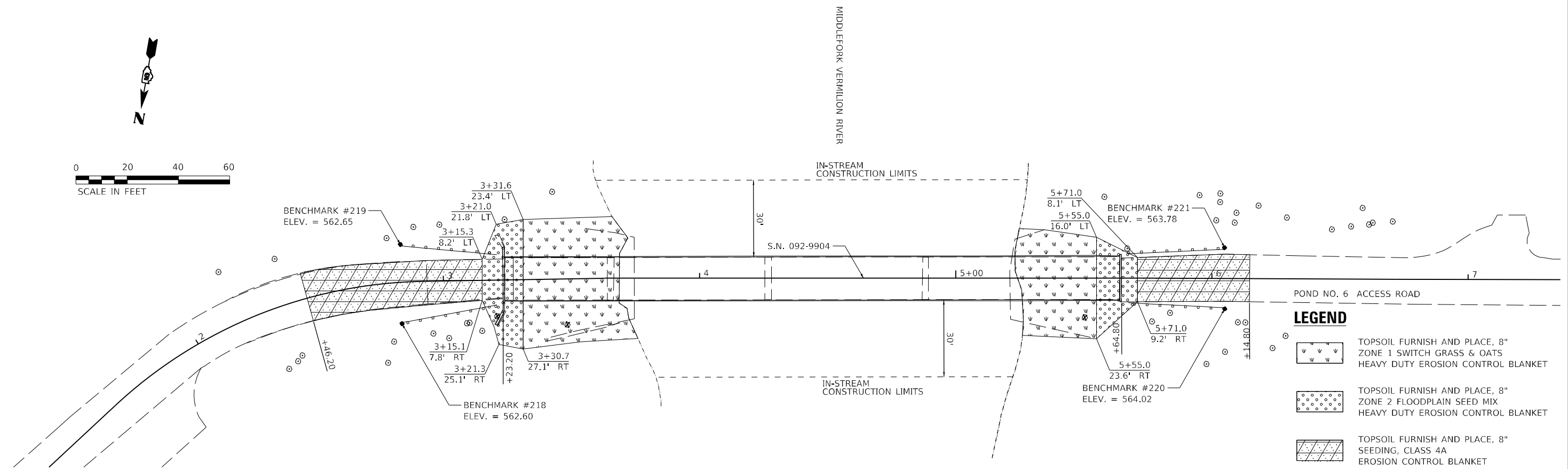
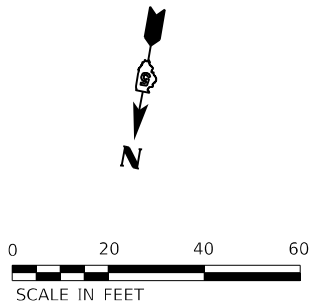
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	DATE - 12/17/2021	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**POND NO. 6 ACCESS ROAD - REMOVAL AND SIGNAGE PLAN
KICKAPOO STATE PARK**

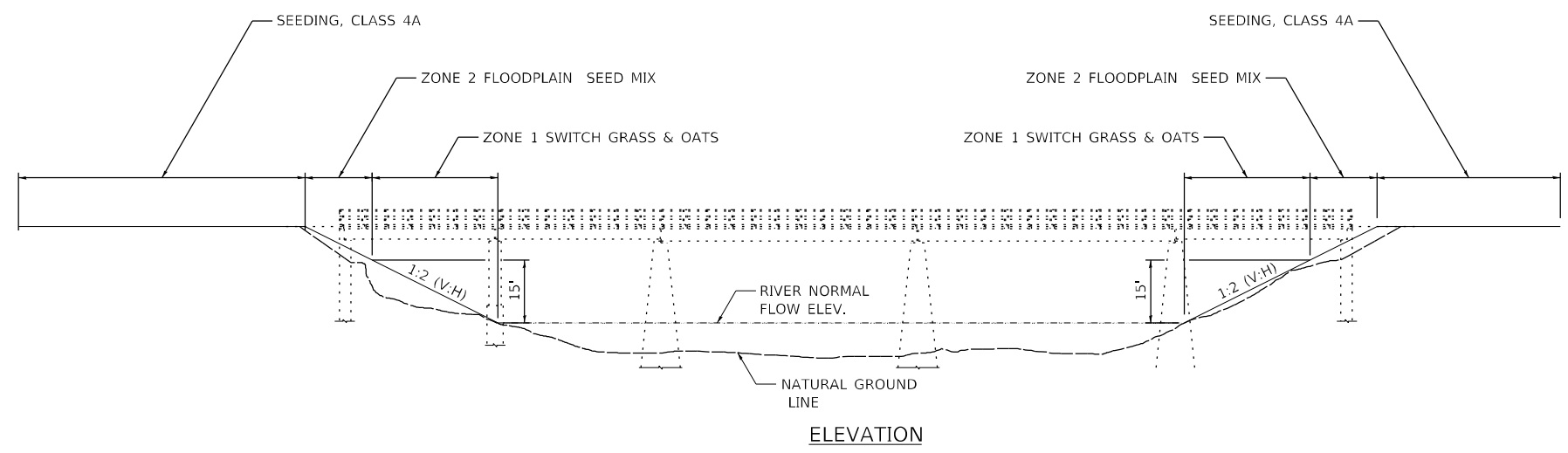
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	KICKAPOO STRUCTURES 2021	VERMILION	38	9
CONTRACT NO. 46923				
ILLINOIS FED. AID PROJECT				



LEGEND

	TOPSOIL FURNISH AND PLACE, 8" ZONE 1 SWITCH GRASS & OATS HEAVY DUTY EROSION CONTROL BLANKET
	TOPSOIL FURNISH AND PLACE, 8" ZONE 2 FLOODPLAIN SEED MIX HEAVY DUTY EROSION CONTROL BLANKET
	TOPSOIL FURNISH AND PLACE, 8" SEEDING, CLASS 4A EROSION CONTROL BLANKET



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Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = jgrimm	DESIGNED - JGG	REVISED
PLOT SCALE = 2.00" / ft.	DRAWN - SRL	REVISED
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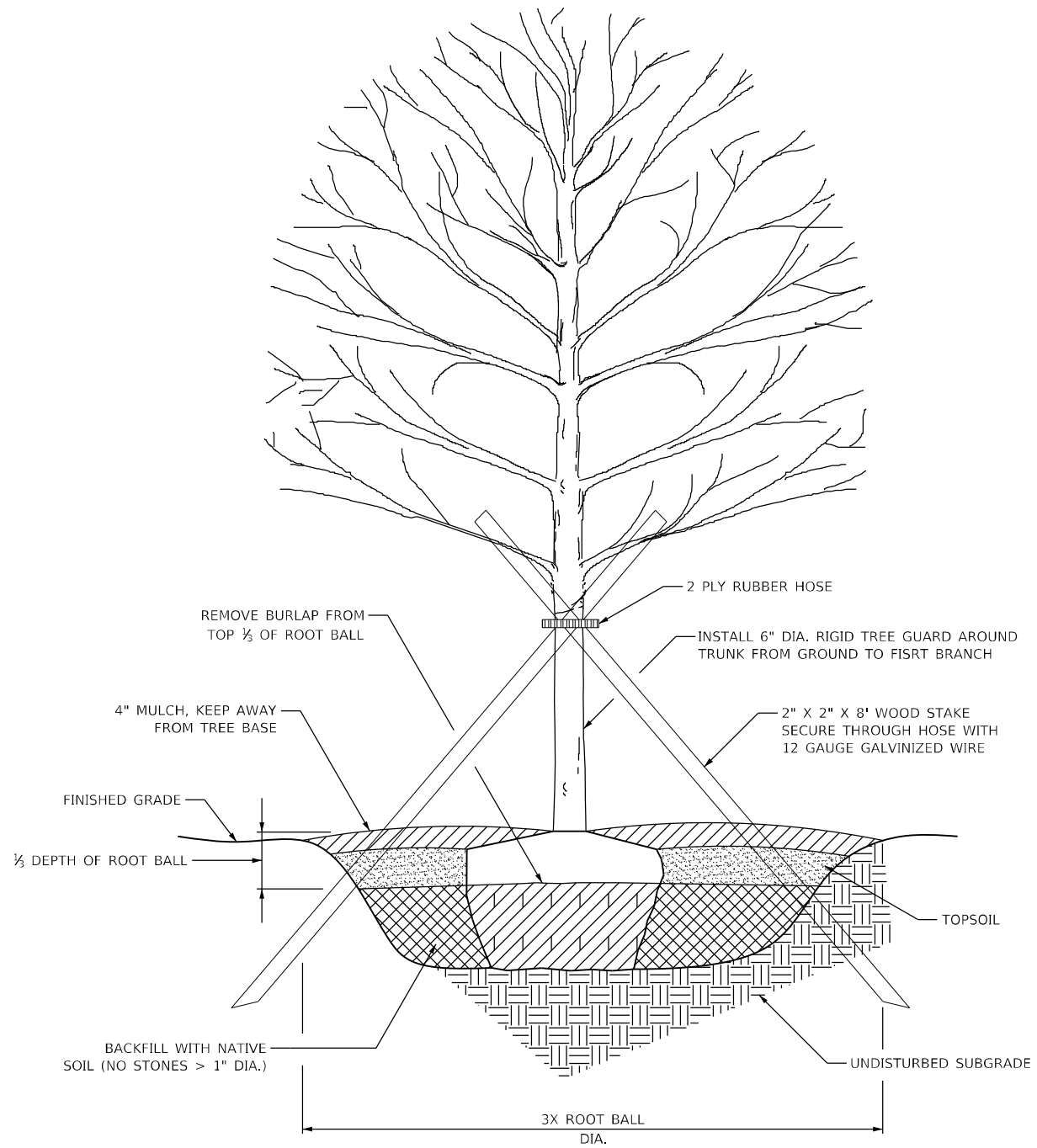
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

POND NO. 6 ACCESS ROAD - EROSION CONTROL PLAN
KICKAPOO STATE PARK
 SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	KICKAPOO STRUCTURES 2021	VERMILION	38	10
CONTRACT NO. 46923			ILLINOIS FED. AID PROJECT	

B&B TREES			
COMMON NAME	SPECIES NAME	SPACING (FEET)	QUANTITY (EACH)
SWAMP WHITE OAK	QUERCUS BICOLOR	20 X 20	2
RED MAPLE	ACER RUBRUM	20 X 20	2
SYCAMORE	PLATANUS OCCIDENTALIS	20 X 20	2
BLACK CHERRY	PRUNUS SEROTINA	20 X 20	2
TOTAL			8

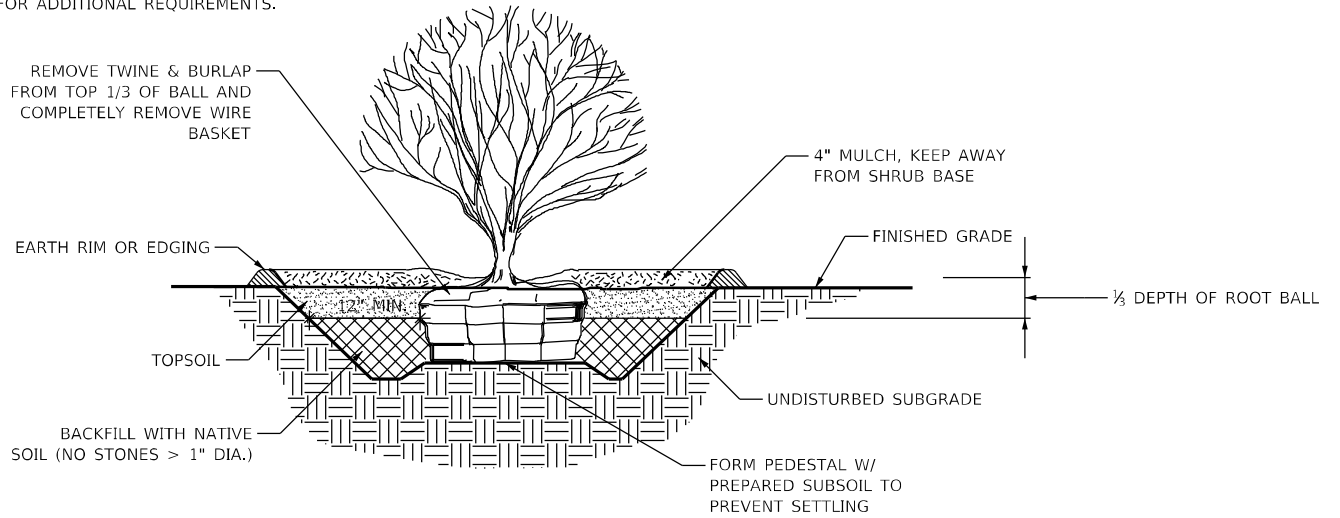
B&B SHRUBS			
COMMON NAME	SPECIES NAME	SPACING (FEET)	QUANTITY (EACH)
ARROWWOOD	VIBURNUM DENTATUM	30 X 30	2
BUTTON BUSH	CEPHALANTHUS OCCIDENTALIS	30 X 30	2
WINTERBERRY	LLEX VERTICILLATA	30 X 30	2
TOTAL			6



TREE PLANTING DETAIL
SCALE: NOT TO SCALE

NOTES:

1. PLACEMENT OF TREES AND SHRUBS SHALL BE DETERMINED BY THE IDNR LANDSCAPE ARCHITECT.
2. PRUNE AS DIRECTED BY THE IDNR LANDSCAPE ARCHITECT.
3. TREES AND SHRUBS SHALL BE PLANTED SO ROOT FLARE IS 1" ABOVE ADJACENT GRADE LINE.
4. SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.



SHRUB PLANTING DETAIL
SCALE: NOT TO SCALE

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 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f4w.com

USER NAME = sllsanby	DESIGNED - JGG	REVISED
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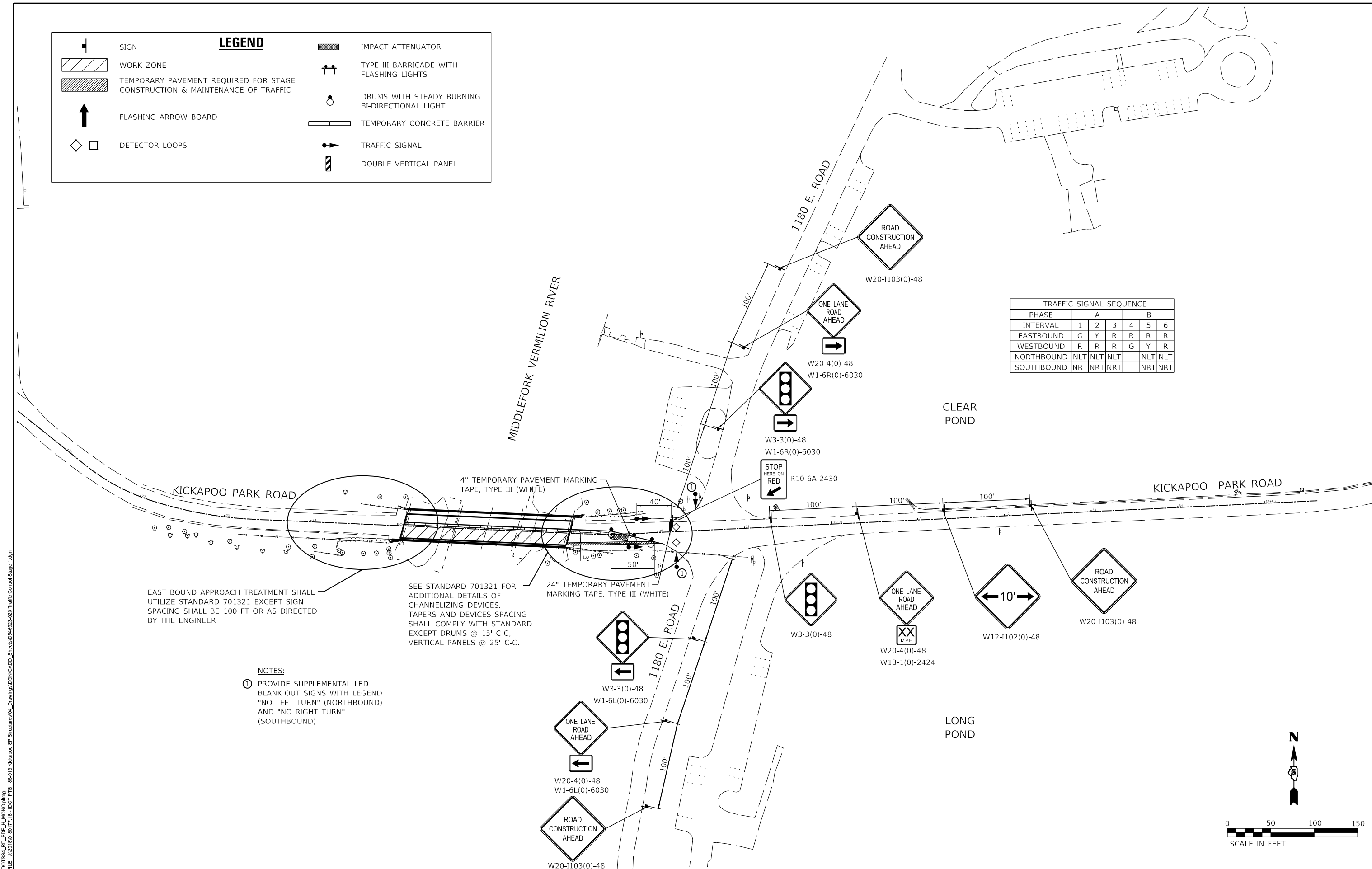
POND NO. 6 ACCESS ROAD - LANDSCAPING DETAILS
KICKAPOO STATE PARK

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	KICKAPOO STRUCTURES 2021	VERMILION	38	11
CONTRACT NO. 46923				
ILLINOIS		FED. AID PROJECT		

LEGEND			
	SIGN		IMPACT ATTENUATOR
	WORK ZONE		TYPE III BARRICADE WITH FLASHING LIGHTS
	TEMPORARY PAVEMENT REQUIRED FOR STAGE CONSTRUCTION & MAINTENANCE OF TRAFFIC		DRUMS WITH STEADY BURNING BI-DIRECTIONAL LIGHT
	FLASHING ARROW BOARD		TEMPORARY CONCRETE BARRIER
	DETECTOR LOOPS		TRAFFIC SIGNAL
			DOUBLE VERTICAL PANEL

TRAFFIC SIGNAL SEQUENCE						
PHASE	1	2	3	4	5	6
EASTBOUND	G	Y	R	R	R	R
WESTBOUND	R	R	R	G	Y	R
NORTHBOUND	NLT	NLT	NLT		NLT	NLT
SOUTHBOUND	NRT	NRT	NRT		NRT	NRT



PEN TABLE: IDOTSSA_Standard Project Pen.tbl
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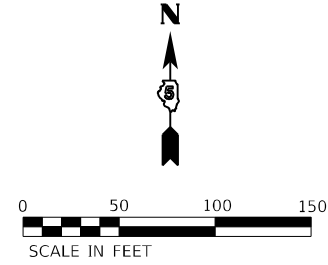
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 1 MAINTENANCE OF TRAFFIC
KICKAPOO STATE PARK**

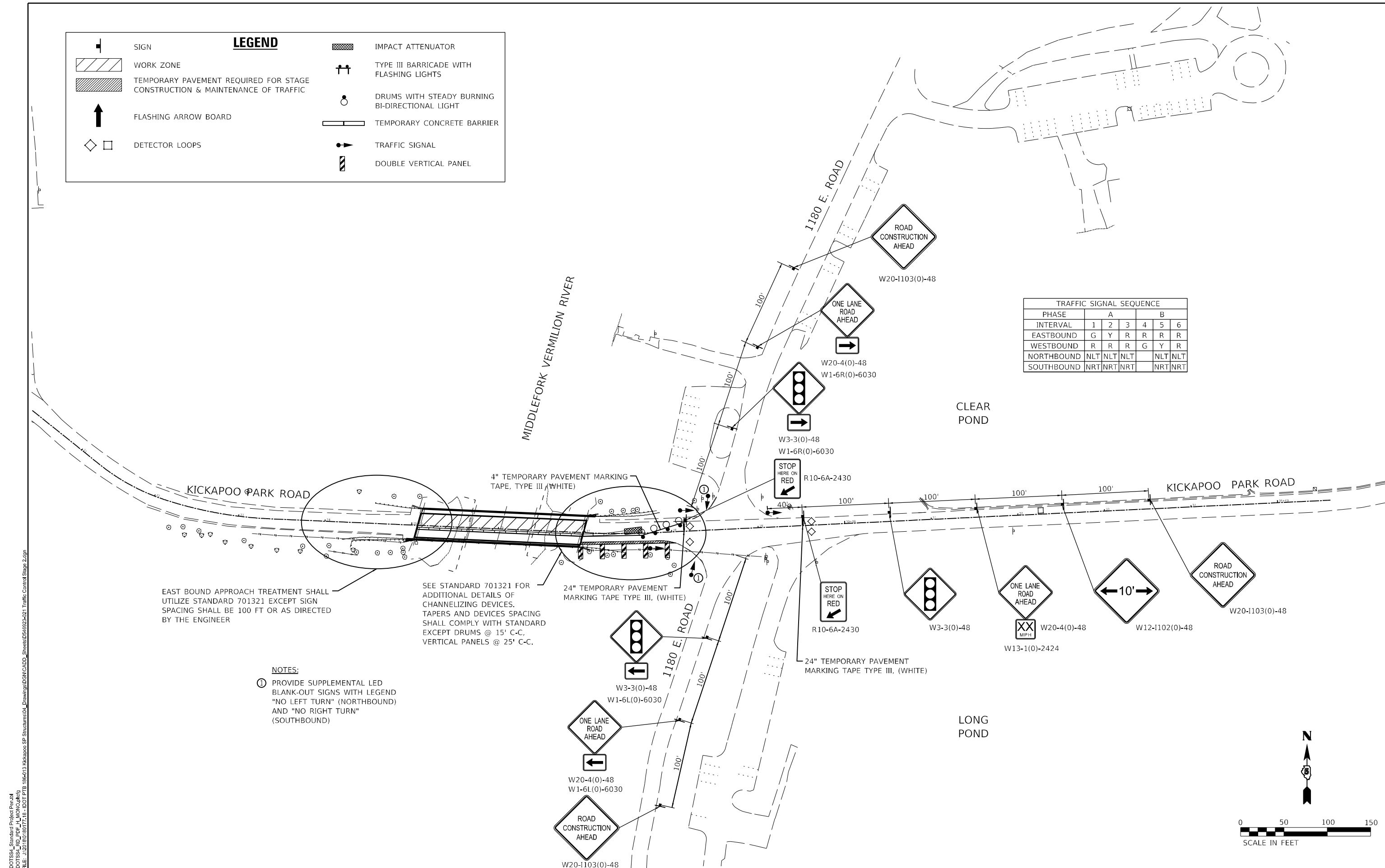
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	12
CONTRACT NO. 46923			ILLINOIS FED. AID PROJECT	



LEGEND	
	SIGN
	WORK ZONE
	TEMPORARY PAVEMENT REQUIRED FOR STAGE CONSTRUCTION & MAINTENANCE OF TRAFFIC
	FLASHING ARROW BOARD
	DETECTOR LOOPS
	IMPACT ATTENUATOR
	TYPE III BARRICADE WITH FLASHING LIGHTS
	DRUMS WITH STEADY BURNING BI-DIRECTIONAL LIGHT
	TEMPORARY CONCRETE BARRIER
	TRAFFIC SIGNAL
	DOUBLE VERTICAL PANEL

TRAFFIC SIGNAL SEQUENCE						
PHASE	1	2	3	4	5	6
EASTBOUND	G	Y	R	R	R	R
WESTBOUND	R	R	R	G	Y	R
NORTHBOUND	NLT	NLT	NLT		NLT	NLT
SOUTHBOUND	NRT	NRT	NRT		NRT	NRT



EAST BOUND APPROACH TREATMENT SHALL UTILIZE STANDARD 701321 EXCEPT SIGN SPACING SHALL BE 100 FT OR AS DIRECTED BY THE ENGINEER

SEE STANDARD 701321 FOR ADDITIONAL DETAILS OF CHANNELIZING DEVICES. TAPERS AND DEVICES SPACING SHALL COMPLY WITH STANDARD EXCEPT DRUMS @ 15' C-C, VERTICAL PANELS @ 25' C-C.

- NOTES:**
- 1 PROVIDE SUPPLEMENTAL LED BLANK-OUT SIGNS WITH LEGEND "NO LEFT TURN" (NORTHBOUND) AND "NO RIGHT TURN" (SOUTHBOUND)

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 PLOT DATE = 12/14/2021 4:32:47 PM

DESIGNED - JGG
 DRAWN - DC
 CHECKED - GAC
 DATE - 12/17/2021

REVISED
 REVISED
 REVISED
 REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STAGE 2 MAINTENANCE OF TRAFFIC
 KICKAPOO STATE PARK

SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	13
CONTRACT NO.				46923
ILLINOIS		FED. AID PROJECT		

Benchmarks: BM #110, rebar in Northeast quadrant of roadway intersection, East of SN 092-9903. Elevation = 568.42, Station 29+19.54, 19.92' LT.
 BM #146, mag nail in sidewalk, South side of SN 092-9903. Elevation = 568.89, Station 25+97.13, 14.77' RT.
 BM #152, mag nail in HMA sidewalk ramp, Northwest quadrant of SN 092-9903. Elevation = 568.87, Station 25+06.16, 15.48' LT.

Existing Structure: Structure No. 092-9903 built in 1965 as Section 5BR. The superstructure consists of a three-span, continuous rolled steel beam bridge with a 7" cast-in-place concrete deck. The substructure consists of stub abutments supported by steel piles and solid wall piers supported by spread footings on bedrock. The back-to-back of abutments length measures 194'-0" and the out-to-out deck width measures 37'-0". The span lengths measure 59'-7", 69'-10", and 59'-7". The structure is skewed 13 degrees left forward. One lane of traffic will be maintained utilizing staged construction.

No Salvage.

DESIGN SPECIFICATIONS

CURRENT CONSTRUCTION:
 2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

LOADING HS20-44

ORIGINAL CONSTRUCTION:
 No allowance for future wearing surface

EXISTING DESIGN STRESSES

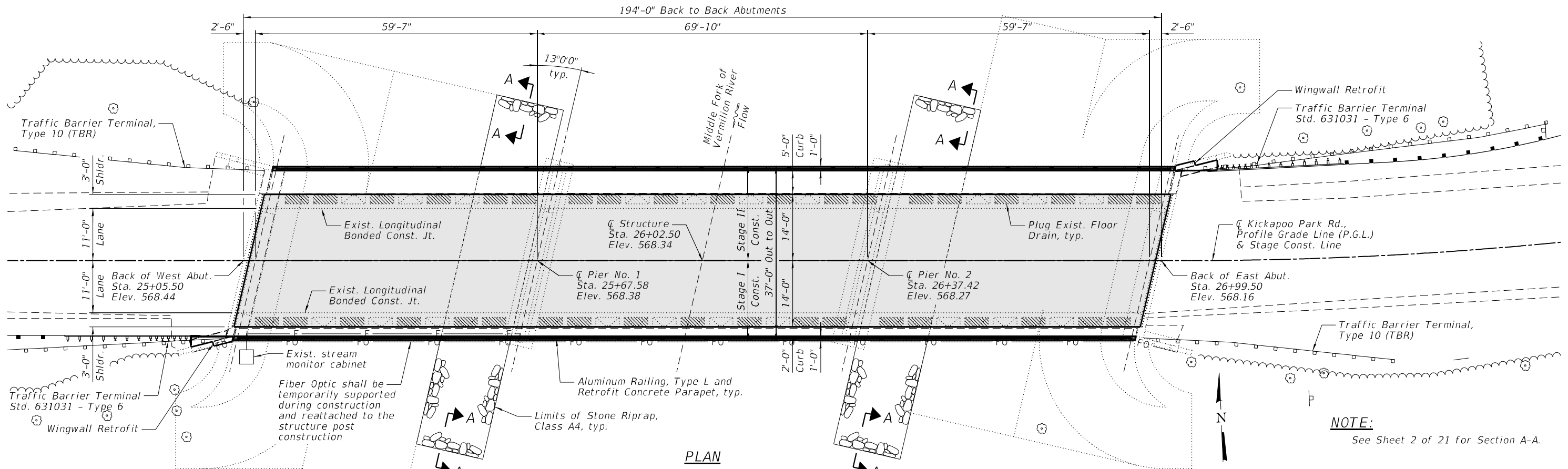
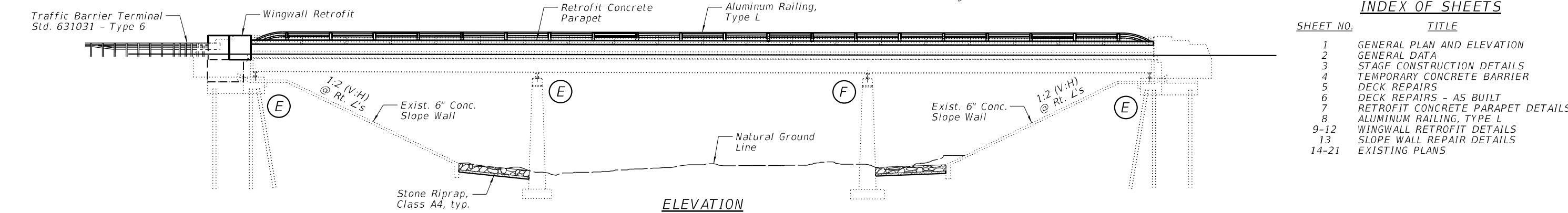
FIELD UNITS
 $f_c = 1,400$ psi (Superstructure & Substructure)
 $V_c = 75$ psi (Footings)
 $f_s = 20,000$ psi (Reinforcement)
 $f_s = 20,000$ psi (Structural Steel A-36)
 $n = 10$

PROPOSED DESIGN STRESSES

FIELD UNITS
 $f'_c = 4,000$ psi (Superstructure)
 $f_y = 60,000$ psi (Reinforcement)

INDEX OF SHEETS

SHEET NO.	TITLE
1	GENERAL PLAN AND ELEVATION
2	GENERAL DATA
3	STAGE CONSTRUCTION DETAILS
4	TEMPORARY CONCRETE BARRIER
5	DECK REPAIRS
6	DECK REPAIRS - AS BUILT
7	RETROFIT CONCRETE PARAPET DETAILS
8	ALUMINUM RAILING, TYPE L
9-12	WINGWALL RETROFIT DETAILS
13	SLOPE WALL REPAIR DETAILS
14-21	EXISTING PLANS

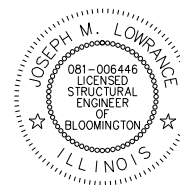


SCOPE OF WORK

- 1.) Maintain one lane of traffic utilizing Stage Construction.
- 2.) Scarify the existing deck.
- 3.) Plug or extend existing deck drains as indicated on the plans.
- 4.) Partial depth repairs to deck.
- 5.) Construct thin polymer overlay on deck.
- 6.) Retrofit the existing concrete parapets.
- 7.) Retrofit the existing wingwalls.
- 8.) Repair slope walls.
- 9.) Clean and paint existing structural steel.

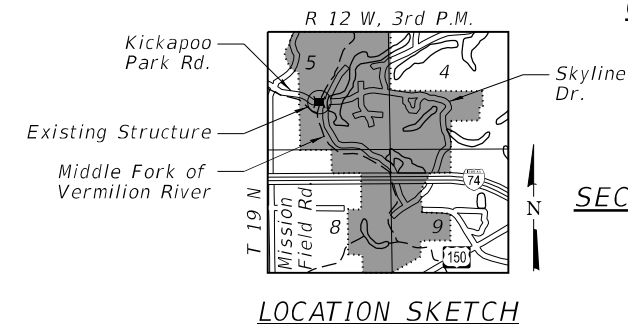
LEGEND

- [Hatched Box] Limits of Bridge Deck Scarification $\frac{3}{8}$ " and Bridge Deck Thin Polymer Overlay $\frac{3}{8}$ "
- [Solid Box] Plug Existing Floor Drains



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

Joseph M. Lowrance Date 12-17-24
 JOSEPH M. LOWRANCE
 ILLINOIS STRUCTURAL ENGINEER
 NO. 081-006446
 Exp. Date 11/30/22



GENERAL PLAN AND ELEVATION

KICKAPOO PARK ROAD OVER

MIDDLE FORK OF

VERMILION RIVER

F.A.S. ROUTE 1507

SECTION KICKAPOO STRUCTURES 2021

VERMILION COUNTY

STATION 26+02.50

STRUCTURE NO. 092-9903



DESIGNED - PMG	REVISION
CHECKED - JML	REVISION
DRAWN - DJM	REVISION
CHECKED - JML	REVISION

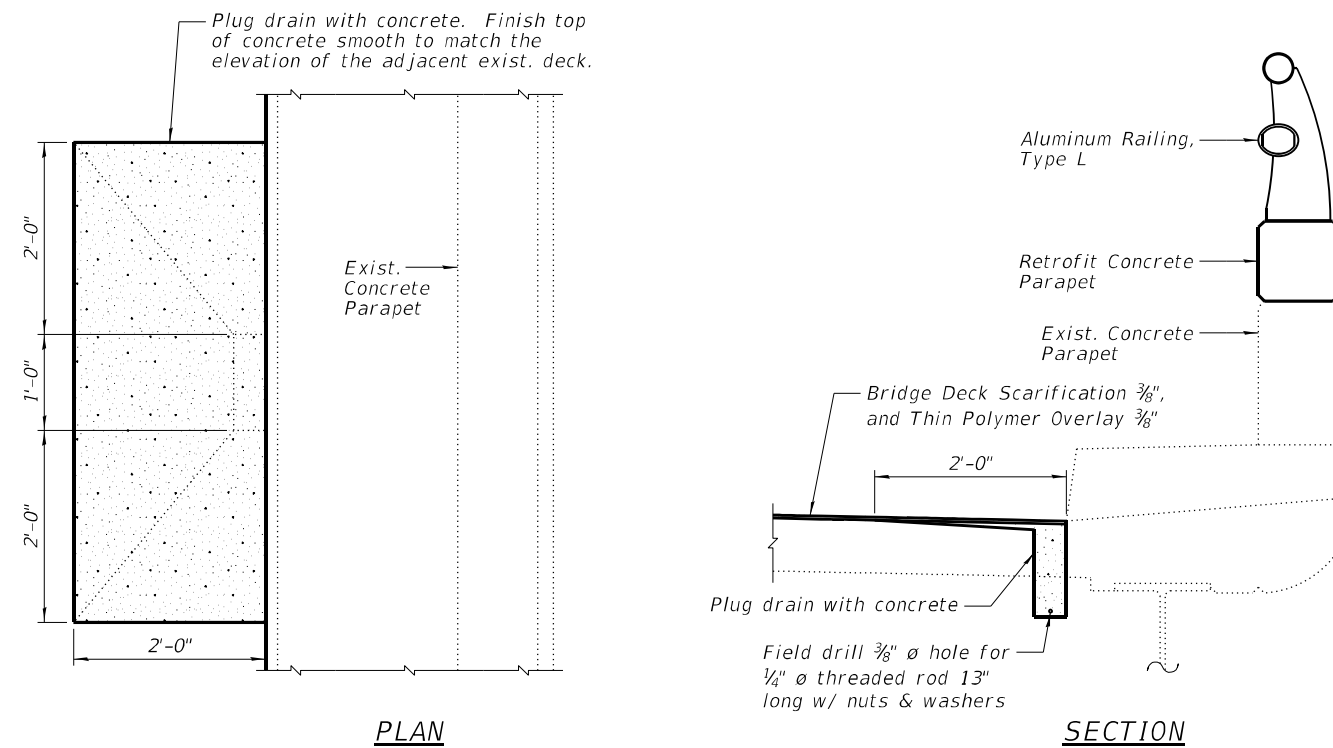
DATE - 12/17/2021

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 46923	

TOTAL BILL OF MATERIAL

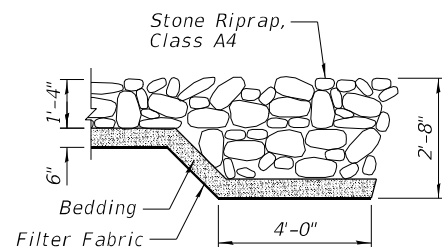
ITEM	UNIT	TOTAL
Stone Riprap, Class A4	Sq. Yd.	242
Filter Fabric	Sq. Yd.	242
Pavement Removal	Sq. Yd.	10
Paved Shoulder Removal	Sq. Yd.	15
Concrete Removal	Cu. Yd.	1.8
Structure Excavation	Cu. Yd.	22
Concrete Superstructure	Cu. Yd.	9.6
Protective Coat	Sq. Yd.	45
Cleaning and Painting of Structural Steel, Location 1	L Sum	1
Reinforcement Bars, Epoxy Coated	Pound	800
Aluminum Railing, Type L	Foot	377
Granular Backfill for Structures	Cu. Yd.	14
Concrete Sealer	Sq. Ft.	406
Plug Existing Floor Drains	Each	38
Slope Wall Crack Sealing	Foot	91
Floor Drain Extension	Each	20
Containment and Disposal of Lead Paint Cleaning Residues No. 1	L Sum	1
Concrete Bridge Deck Scarification 3/8"	Sq. Yd.	591
Bridge Deck Thin Polymer Overlay 3/8"	Sq. Yd.	591
Deck Slab Repair (Partial)	Sq. Yd.	2
Retrofit Concrete Parapet	Foot	381
Slope Wall Repair	Sq. Yd.	16
Slope Wall Slurry Pumping	Cu. Yd.	5.0



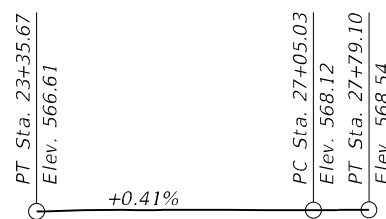
PLUG EXISTING FLOOR DRAIN DETAILS
(See Sheet 1 of 21 for locations)

GENERAL NOTES:

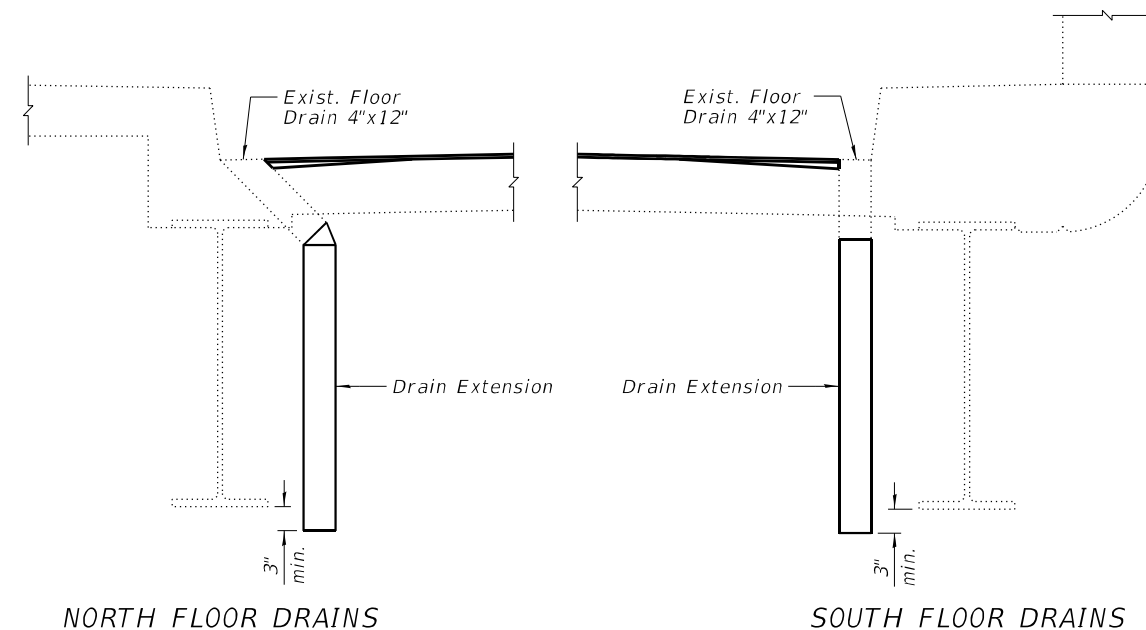
- 1.) Reinforcement bars designated (E) shall be epoxy coated.
- 2.) Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction or ordering of materials. Such variations shall not be cause for additional scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- 3.) Protective Coat shall be applied to proposed concrete surfaces and Concrete Sealer shall be applied to existing concrete surfaces at the locations specified in Article 503.19 of the Standard Specifications. Protective Coat and Concrete Sealer shall not be applied to surfaces to which Bridge Deck Thin Polymer Overlay is applied.
- 4.) The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project according to the Guide Bridge Special Provision "Containment and Disposal of Lead Paint Cleaning Residues".
- 5.) A minimum of 2 air monitors will be required to monitor abrasive blasting operations at this site. See Special Provision for "Containment and Disposal of Lead Paint Cleaning Residues".
- 6.) Cleaning and painting of the existing structural steel shall be as specified in the Special Provision for "Cleaning and Painting Existing Steel Structures". All existing steel shall be cleaned per Near White Blast Cleaning (SSPC-SP10). All existing steel shall be painted according to the requirements of Paint System 1 OZ/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flanges of the fascia beams shall be Green, Munsell No. 7.5 G 4/8.
- 7.) Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 8.) See the roadway plans for details related to the hot-mix asphalt mixture requirements, guardrail items, and traffic control items.



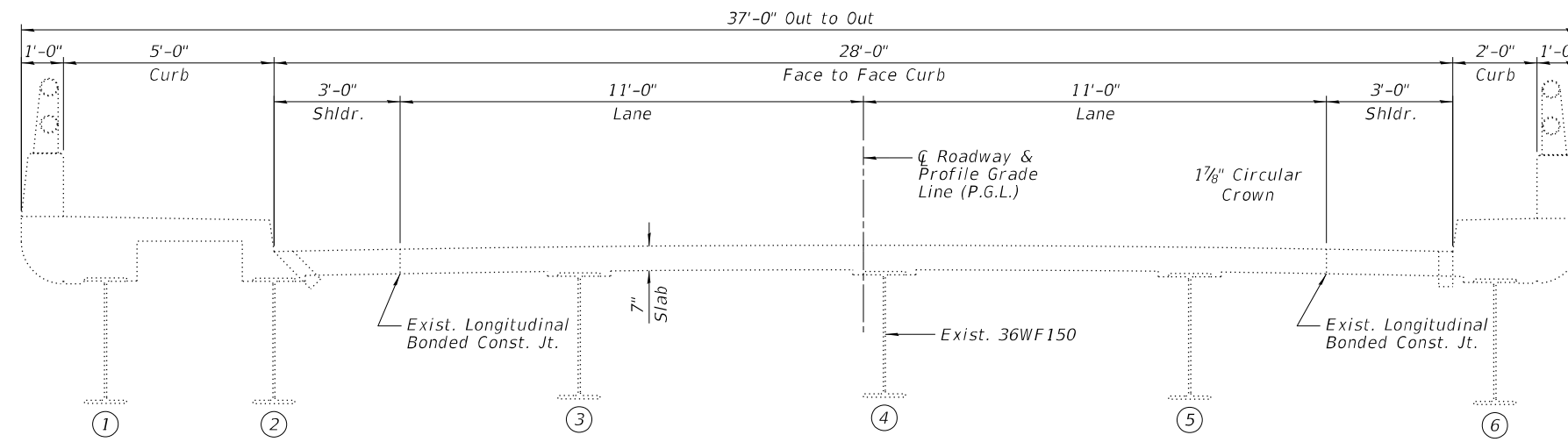
SECTION A-A
(See Sheet 1 of 21 for locations)



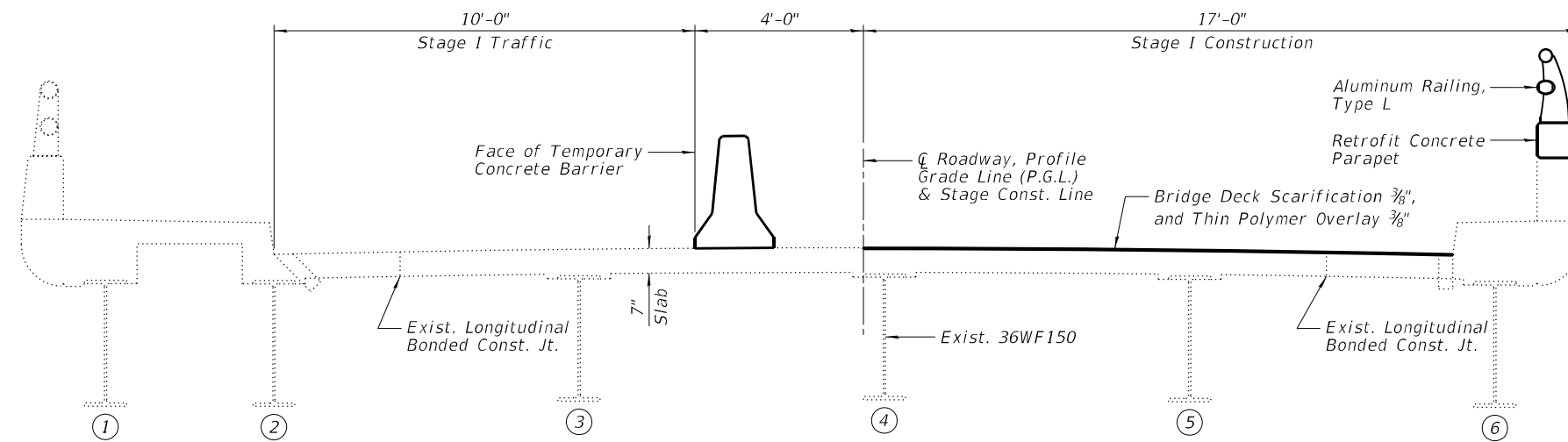
PROFILE GRADE
(Along \bar{C} Roadway)



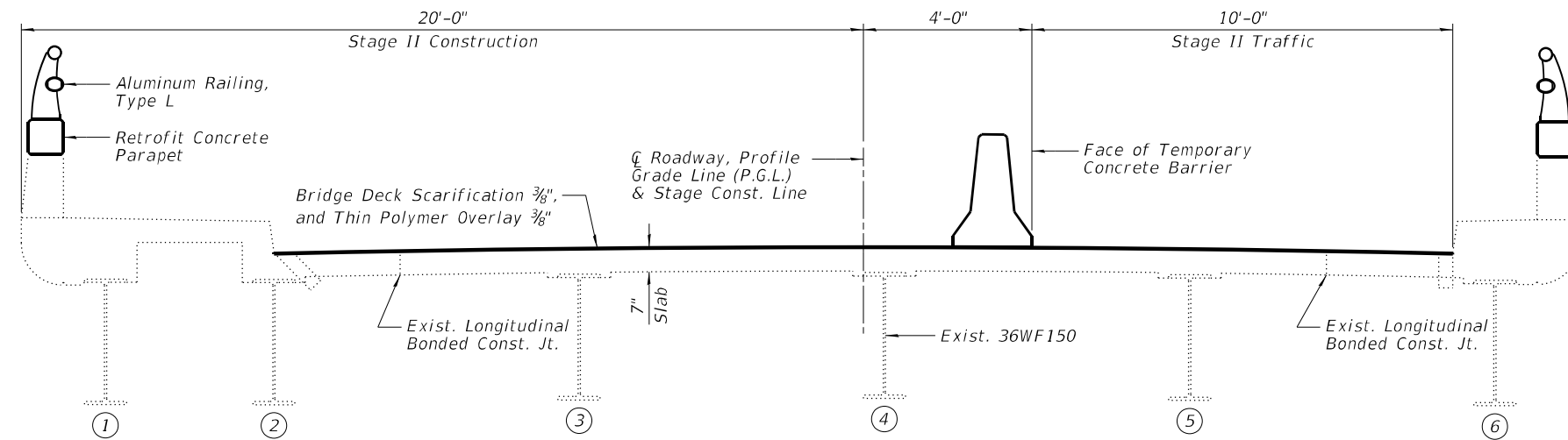
FLOOR DRAIN EXTENSION DETAILS
(See Figure 2.8-1 of the IDOT Structural Services Manual for additional details)



EXISTING CROSS SECTION
(Looking East)



STAGE I
(Looking East)



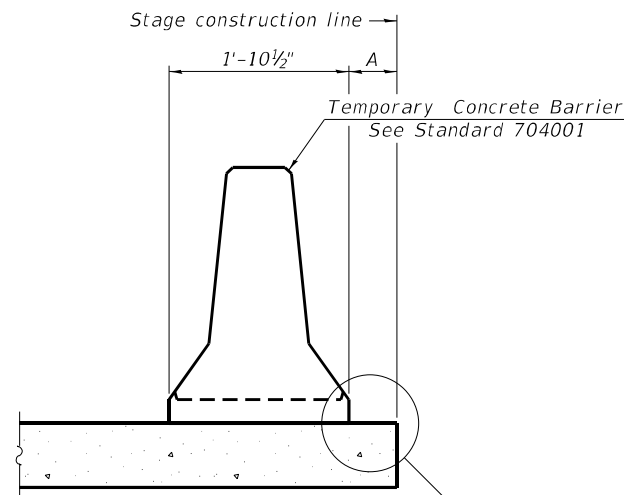
STAGE II
(Looking East)

NOTE:

See Roadway Plans for Temporary Concrete Barrier quantity.

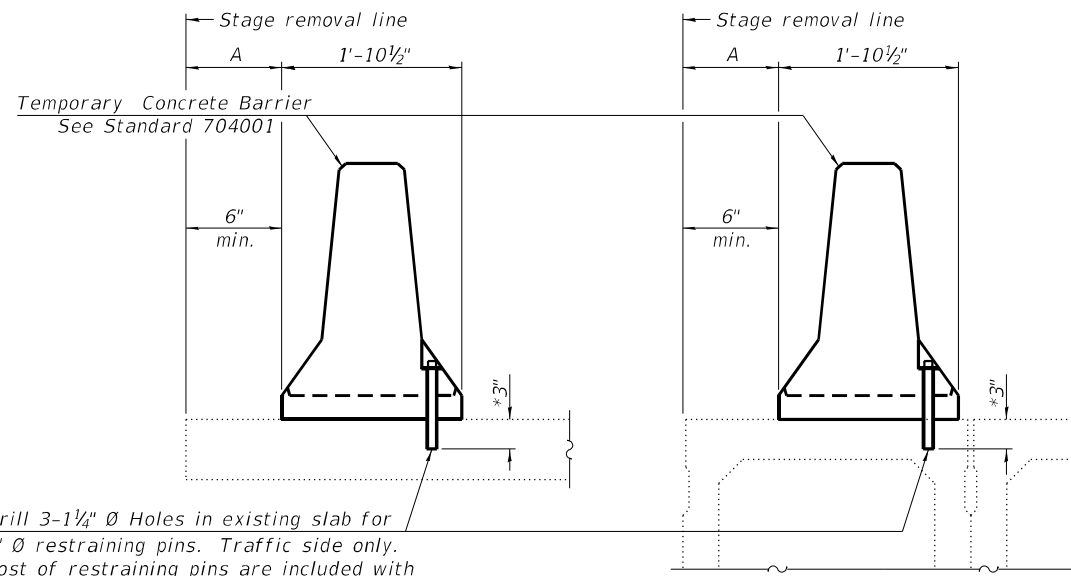
DESIGNED - PMG	REVISED
CHECKED - JML	REVISED
DRAWN - DJM	REVISED
CHECKED - JML	REVISED
DATE - 12/17/2021	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	16
			CONTRACT NO. 46923	
ILLINOIS FED. AID PROJECT				



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



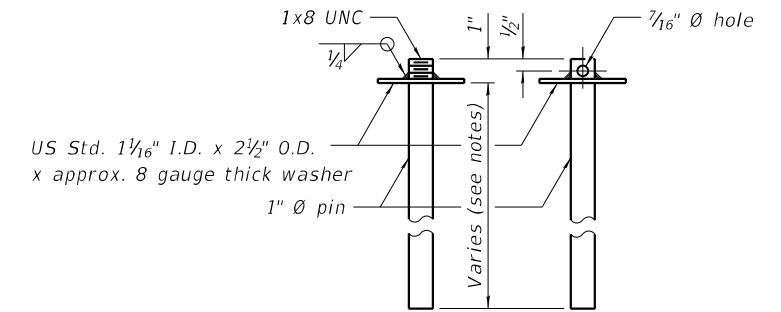
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

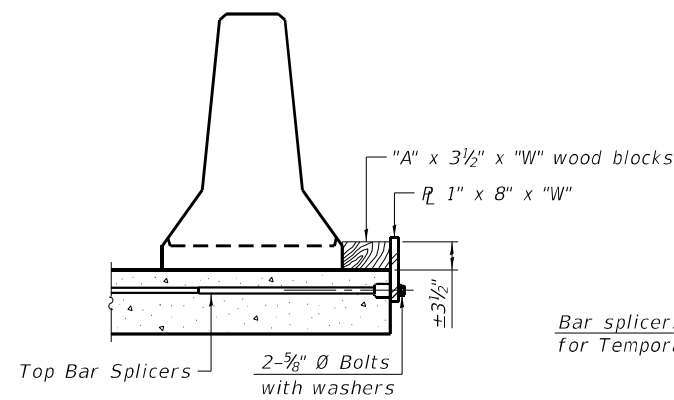
EXISTING SLAB

EXISTING DECK BEAM

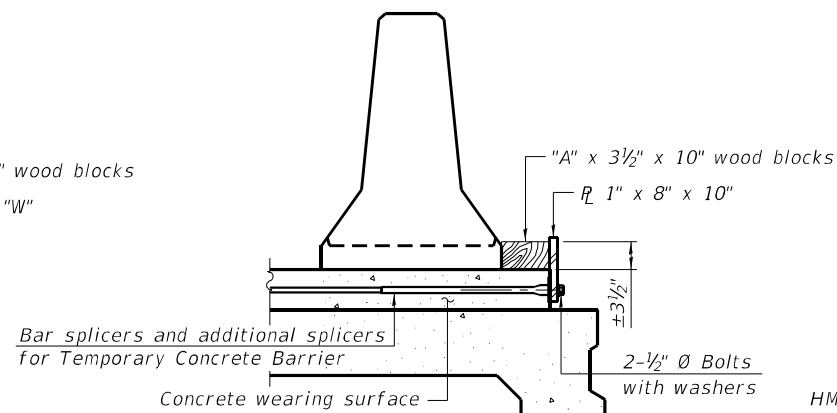
SECTIONS THRU SLAB OR DECK BEAM



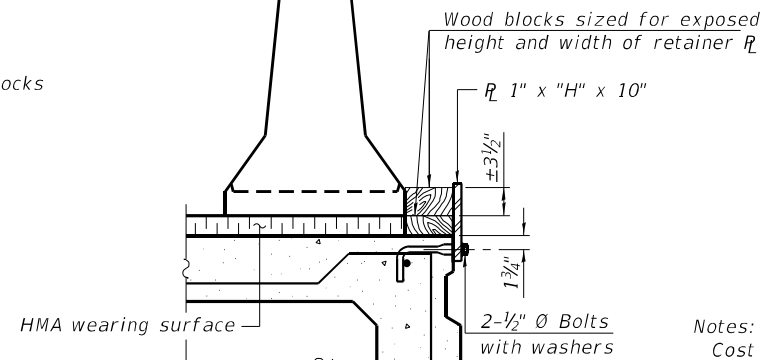
RESTRAINING PIN



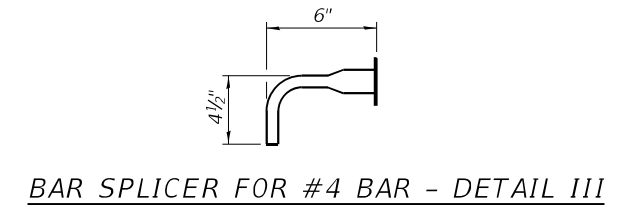
DETAIL I



DETAIL II



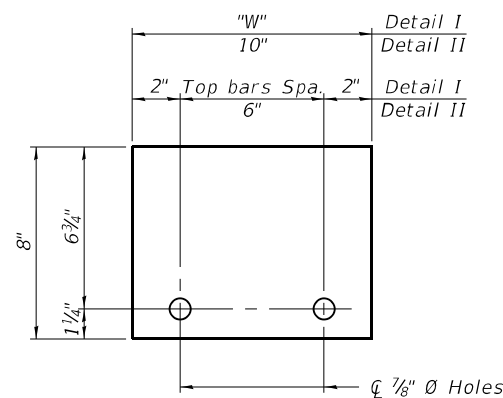
DETAIL III



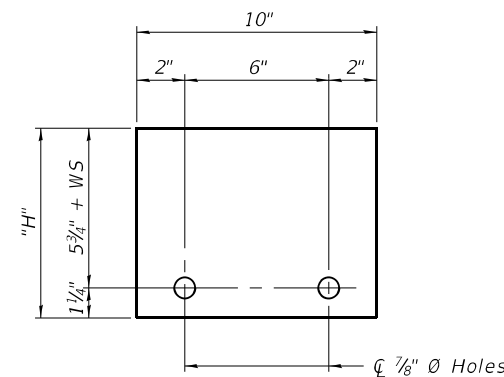
BAR SPLICER FOR #4 BAR - DETAIL III

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate C of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate.
 For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.
 Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
 Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)

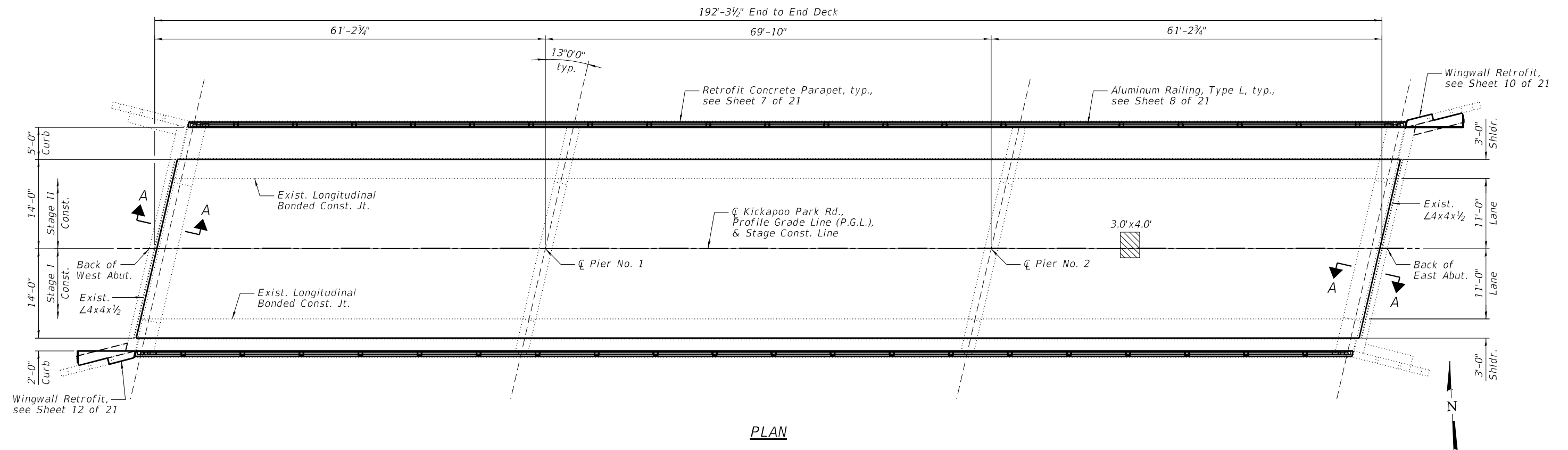


STEEL RETAINER R 1" x "H" x 10"
(Detail III)

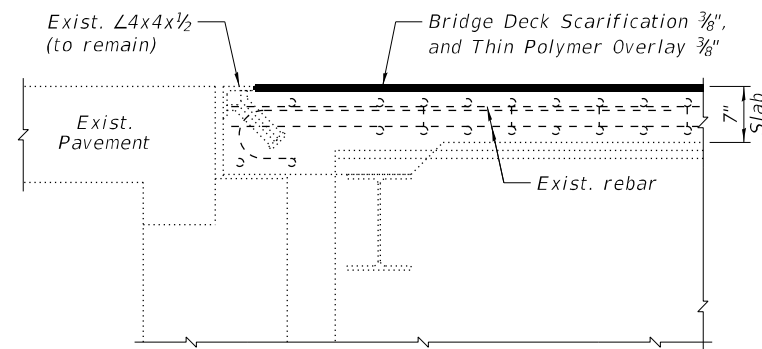
RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021



PLAN



SECTION A-A

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Bridge Deck Scarification 3/8"	Sq. Yd.	591
Bridge Deck Thin Polymer Overlay 3/8"	Sq. Yd.	591
Deck Slab Repair (Partial)	Sq. Yd.	2

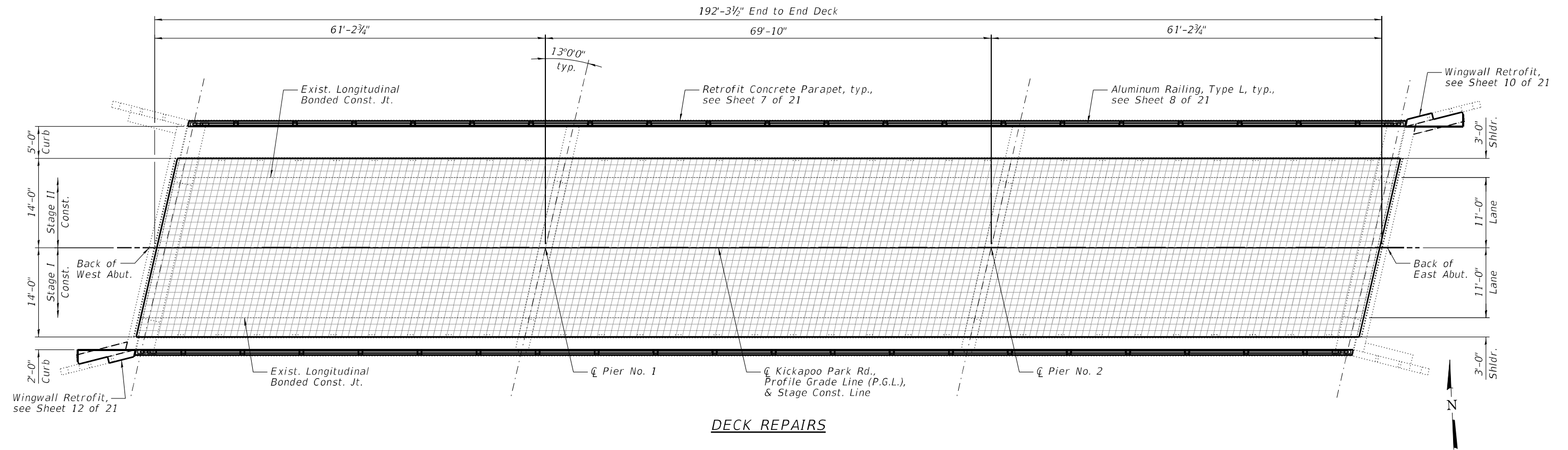
LEGEND:



Deck Slab Repair (Partial)

NOTE:

The repair areas shown are estimated based on a field inspection conducted in July 2020. The actual repair areas required shall be verified according to the Special Provisions.



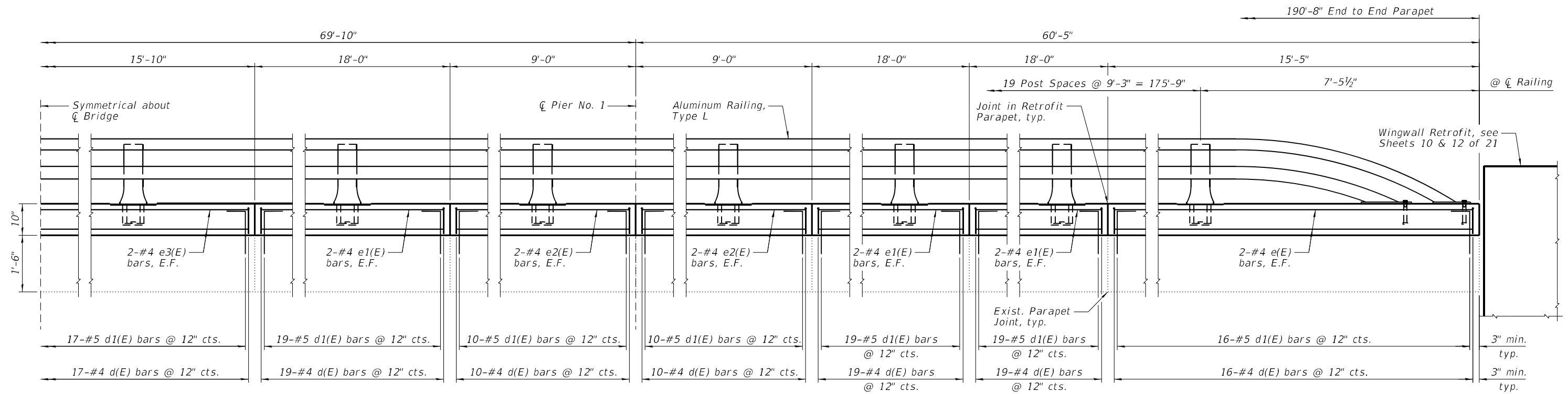
DECK REPAIRS

NOTES:

- 1.) The Engineer will record the as-built deck slab repair areas on this sheet.
- 2.) The reference grid was drawn with 1'x1' squares.

DESIGNED - PMG	REVISED
CHECKED - JML	REVISED
DRAWN - DJM	REVISED
CHECKED - JML	REVISED
DATE - 12/17/2021	

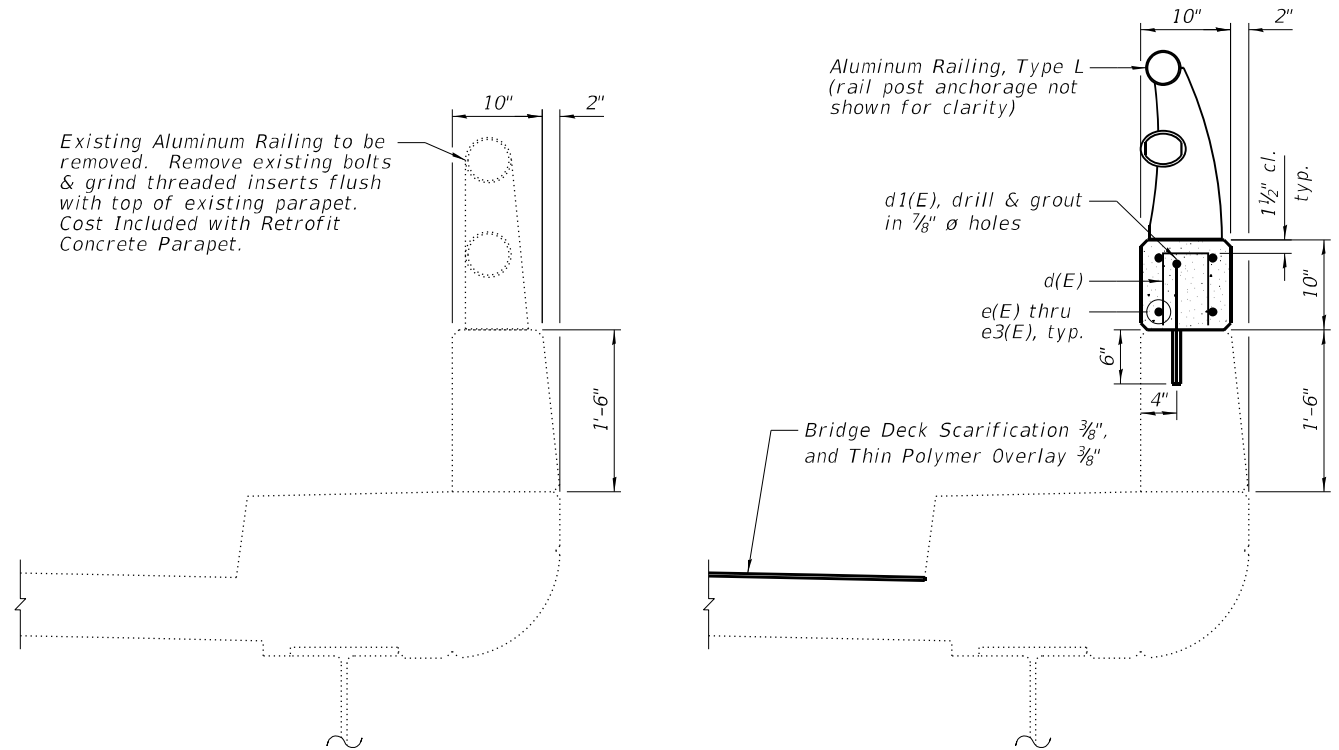
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	19
			CONTRACT NO. 46923	
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF PARAPET

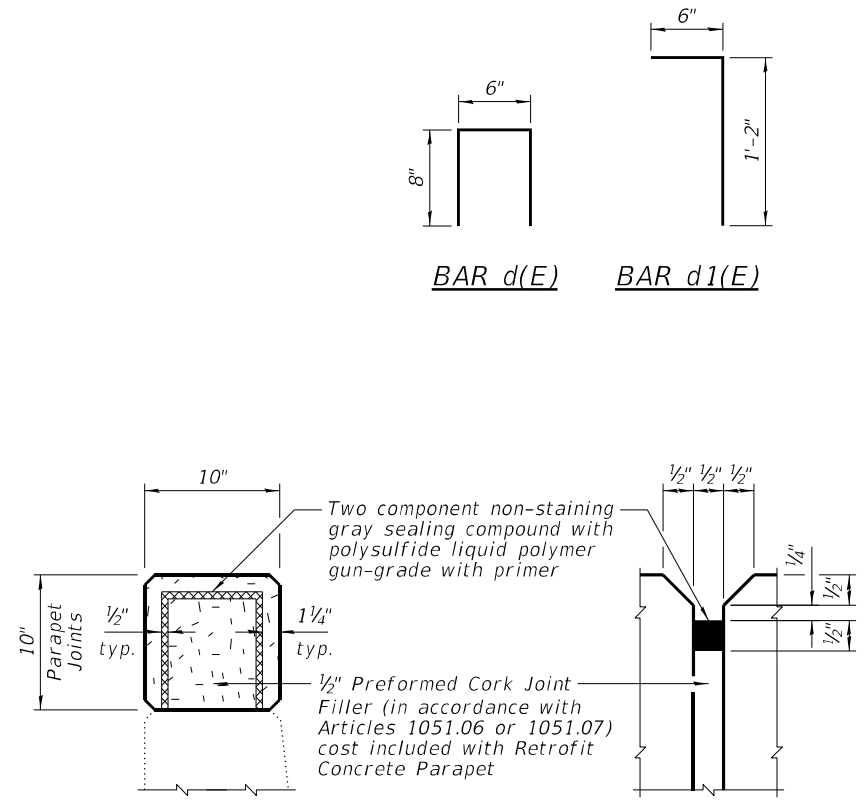
BILL OF MATERIAL
(Rebar for informational use only.)

Bar	No.	Size	Length	Shape
d(E)	440	#4	1'-10"	□
d1(E)	440	#5	1'-8"	└
e(E)	16	#4	14'-11"	—
e1(E)	48	#4	17'-6"	—
e2(E)	32	#4	8'-6"	—
e3(E)	16	#4	15'-4"	—
Item	Unit	Quantity		
Protective Coat	Sq. Yd.	35		
Concrete Sealer	Sq. Ft.	318		
Retrofit Concrete Parapet	Foot	381		



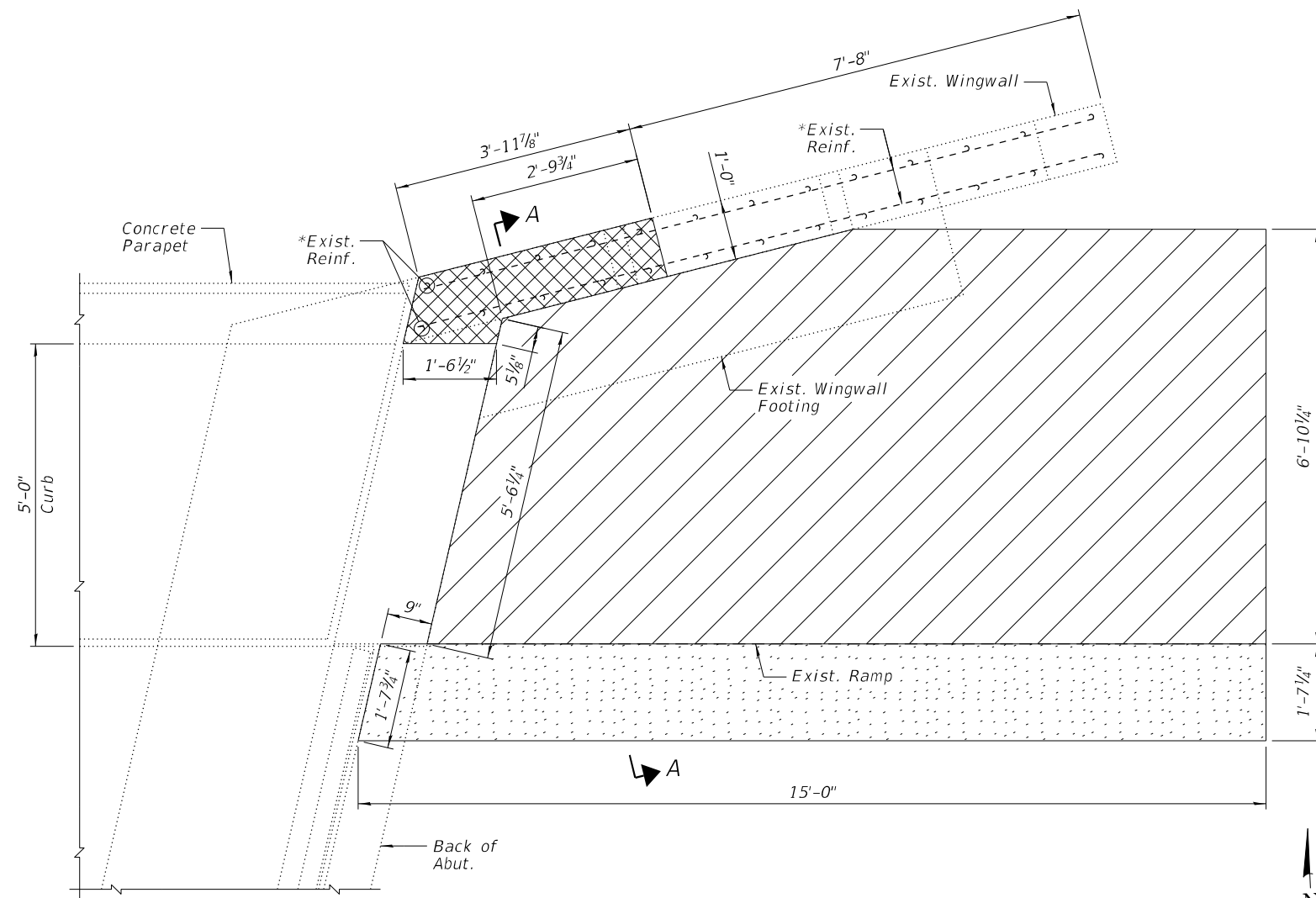
EXISTING SECTION

PROPOSED SECTION

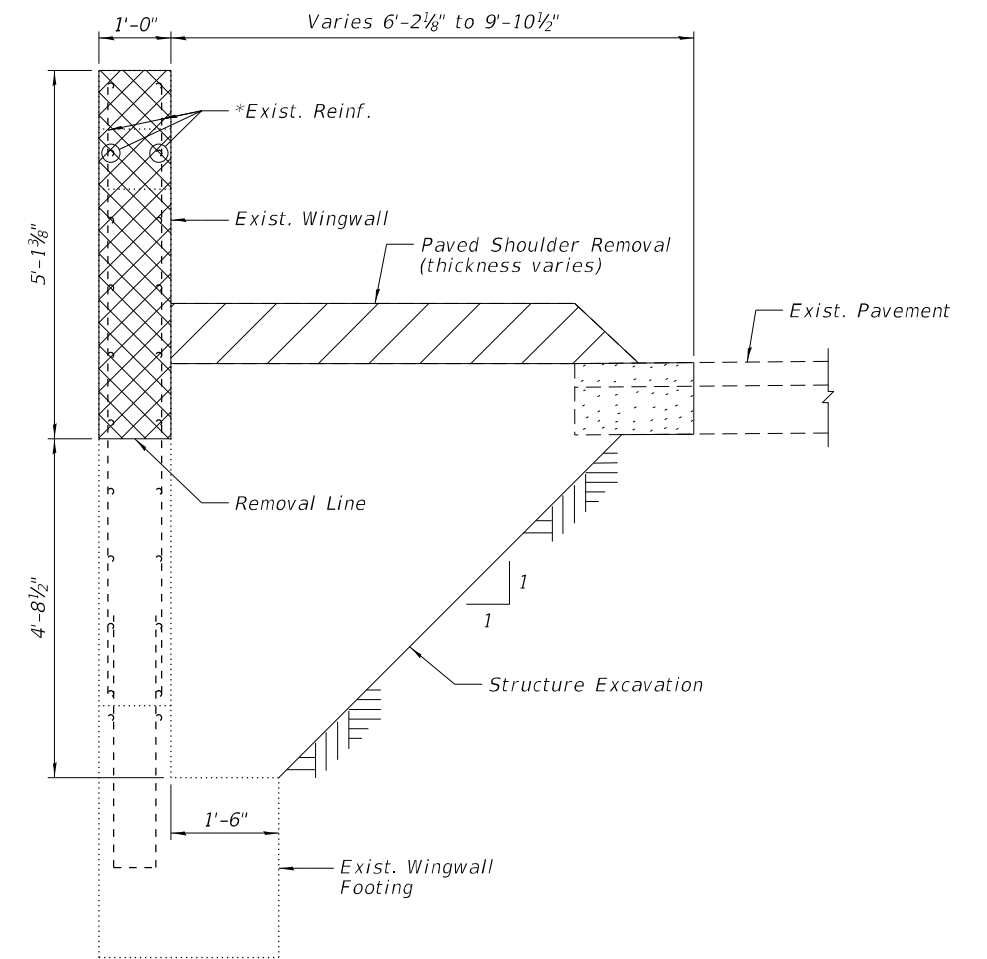


JOINT DETAILS

- NOTES:**
- 1.) E.F. denotes Each Face.
 - 2.) Drill & grout into existing concrete according to Section 584 of the Standard Specifications, avoiding existing bolts.
 - 3.) Place reinforcement to miss rail post anchorage.
 - 4.) See Sheet 8 of 21 for Aluminum Railing, Type L.






REMOVAL PLAN NORTHEAST WINGWALL



SECTION A-A
(Horiz. dimensions @ Rt. L's)

LEGEND

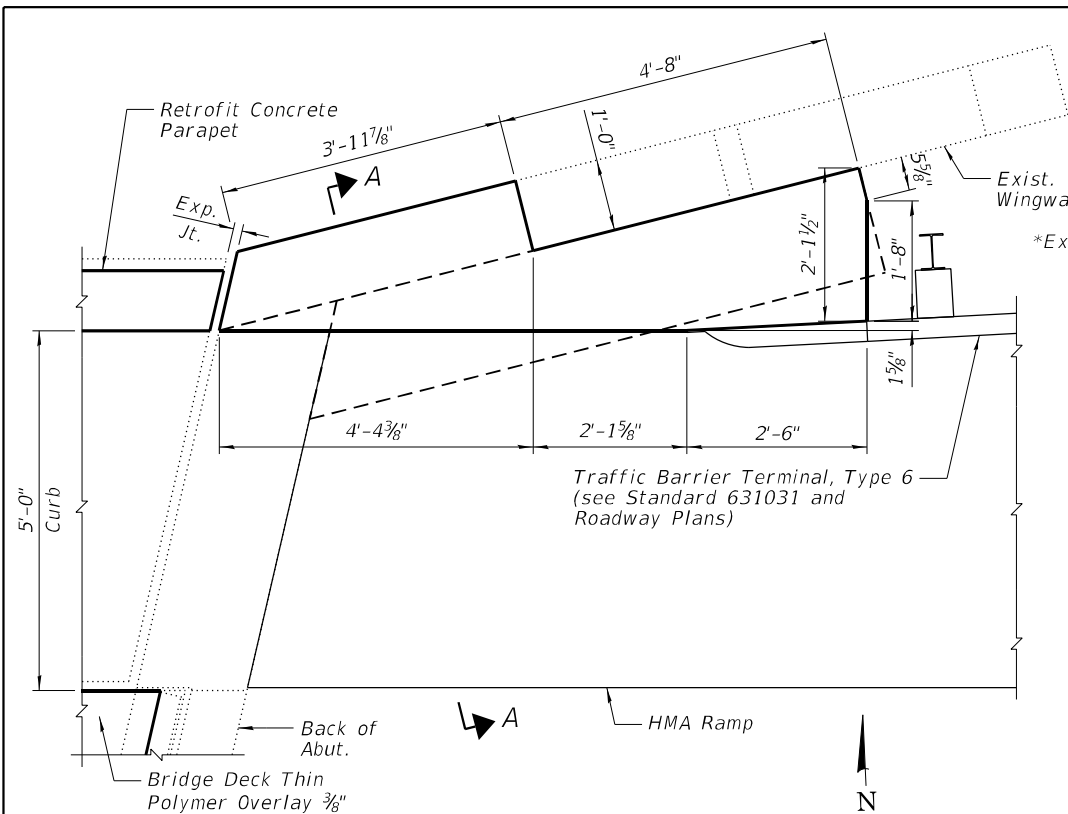
-  Concrete Removal
-  Paved Shoulder Removal
-  Pavement Removal

NOTE:

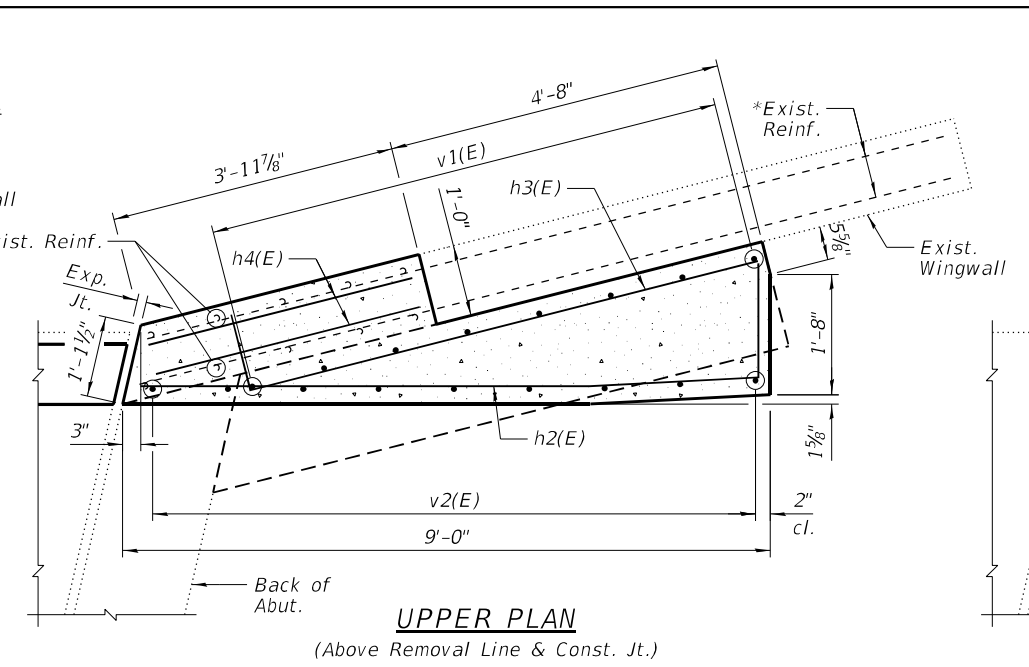
*Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.

DESIGNED - PMG	REVISED
CHECKED - JML	REVISED
DRAWN - DJM	REVISED
CHECKED - JML	REVISED
DATE - 12/17/2021	

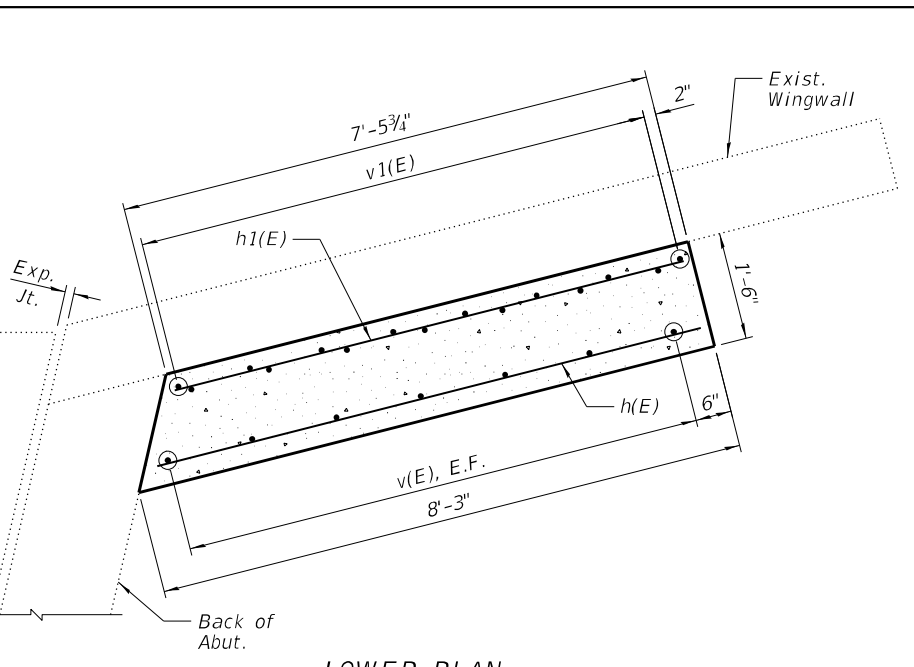
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	22
CONTRACT NO. 46923				
ILLINOIS FED. AID PROJECT				



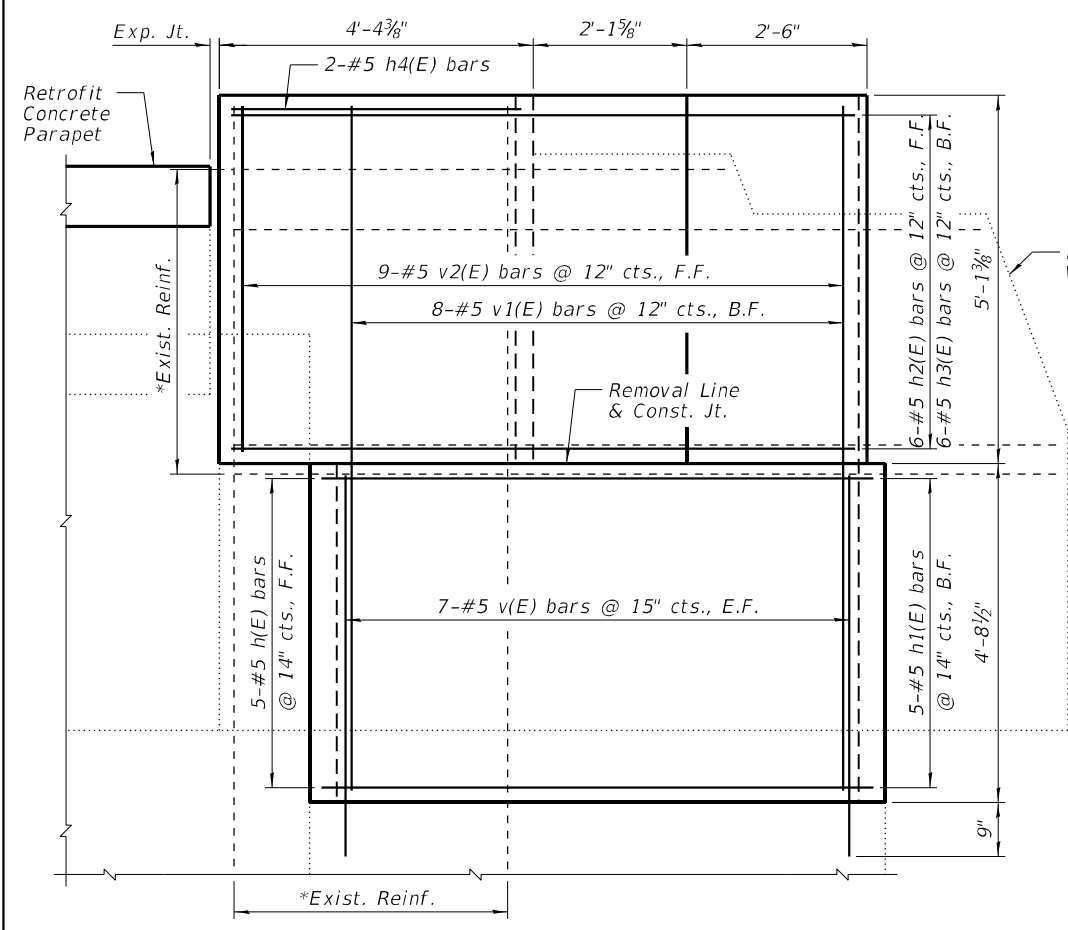
PLAN NORTHEAST WINGWALL
(Aluminum Railing not shown for clarity.)



UPPER PLAN
(Above Removal Line & Const. Jt.)

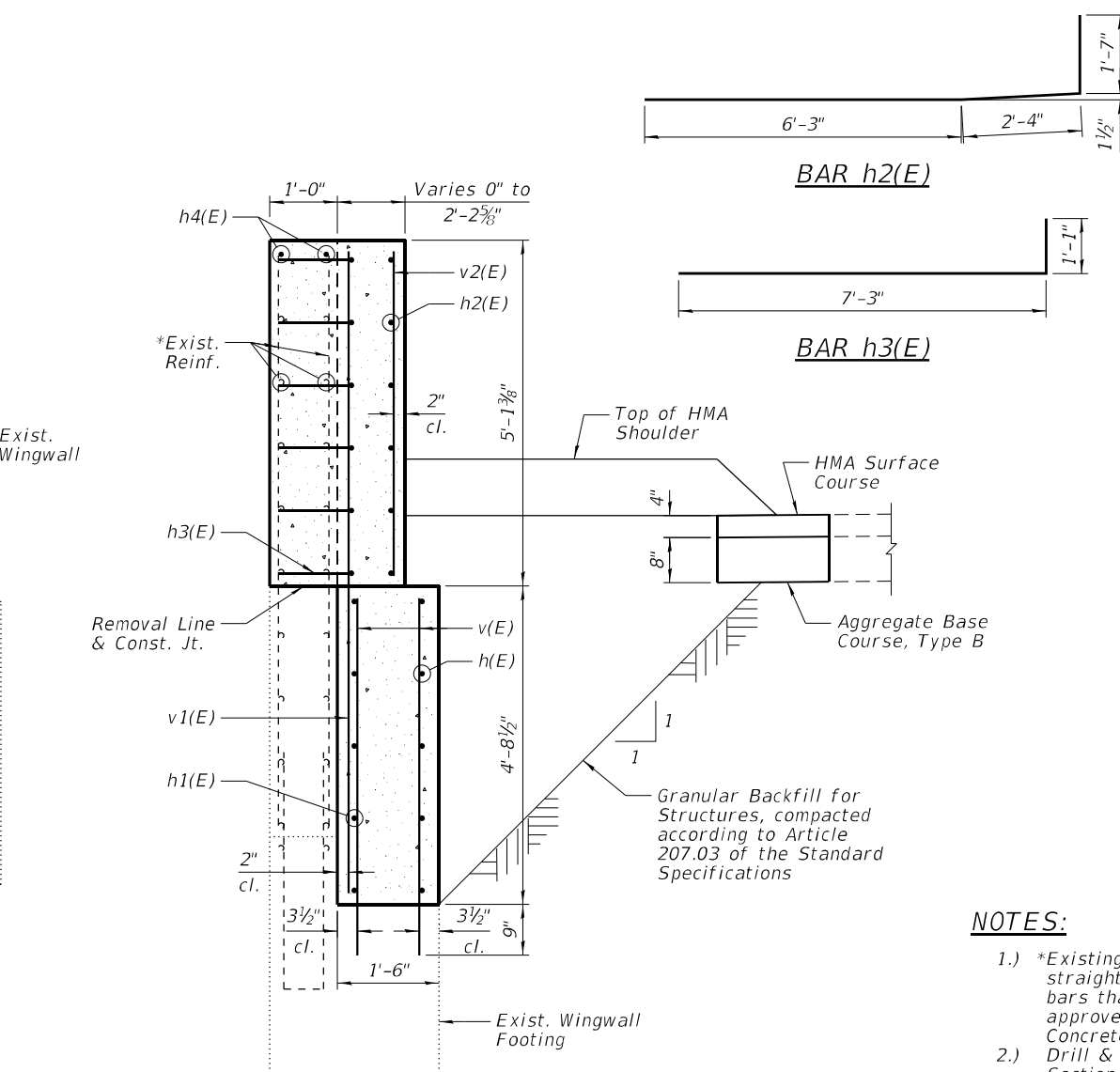


LOWER PLAN
(Below Removal Line)



INSIDE ELEVATION

(Aluminum Railing & Traffic Barrier Terminal, Type 6 not shown for clarity. For Type 6 terminal connections, see Highway Standard 631031.)



SECTION A-A
(Horiz. dimensions @ Rt. L's)

NORTHEAST WINGWALL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	5	#5	7'-9"	—
h1(E)	5	#5	7'-3"	—
h2(E)	6	#5	10'-2"	┘
h3(E)	6	#5	8'-4"	┘
h4(E)	2	#5	3'-9"	—
v(E)	14	#5	5'-3"	—
v1(E)	8	#5	9'-5"	—
v2(E)	9	#5	4'-9"	—

Item	Unit	Quantity
** Pavement Removal	Sq. Yd.	7
** Paved Shoulder Removal	Sq. Yd.	5
Concrete Removal	Cu. Yd.	0.9
Structure Excavation	Cu. Yd.	13
Concrete Superstructure	Cu. Yd.	4.8
Protective Coat	Sq. Yd.	5
Reinforcement Bars, Epoxy Coated	Pound	400
Granular Backfill for Structures	Cu. Yd.	8
Concrete Sealer	Sq. Ft.	44

** Roadway Quantity

NOTES:

- 1.) *Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.
- 2.) Drill & grout #5 v(E) bars 9" min. into existing concrete according to Section 584 of the Standard Specifications.
- 3.) E.F. denotes Each Face, B.F. denotes Back Face and F.F. denotes Front Face.
- 4.) See Sheet 7 of 21 for Retrofit Concrete Parapet Details.
- 5.) See Roadway Plans for HMA Ramp details.



DESIGNED - PMG	REVIS
CHECKED - JML	REVIS
DRAWN - DJM	REVIS
CHECKED - JML	REVIS

DATE - 12/17/2021

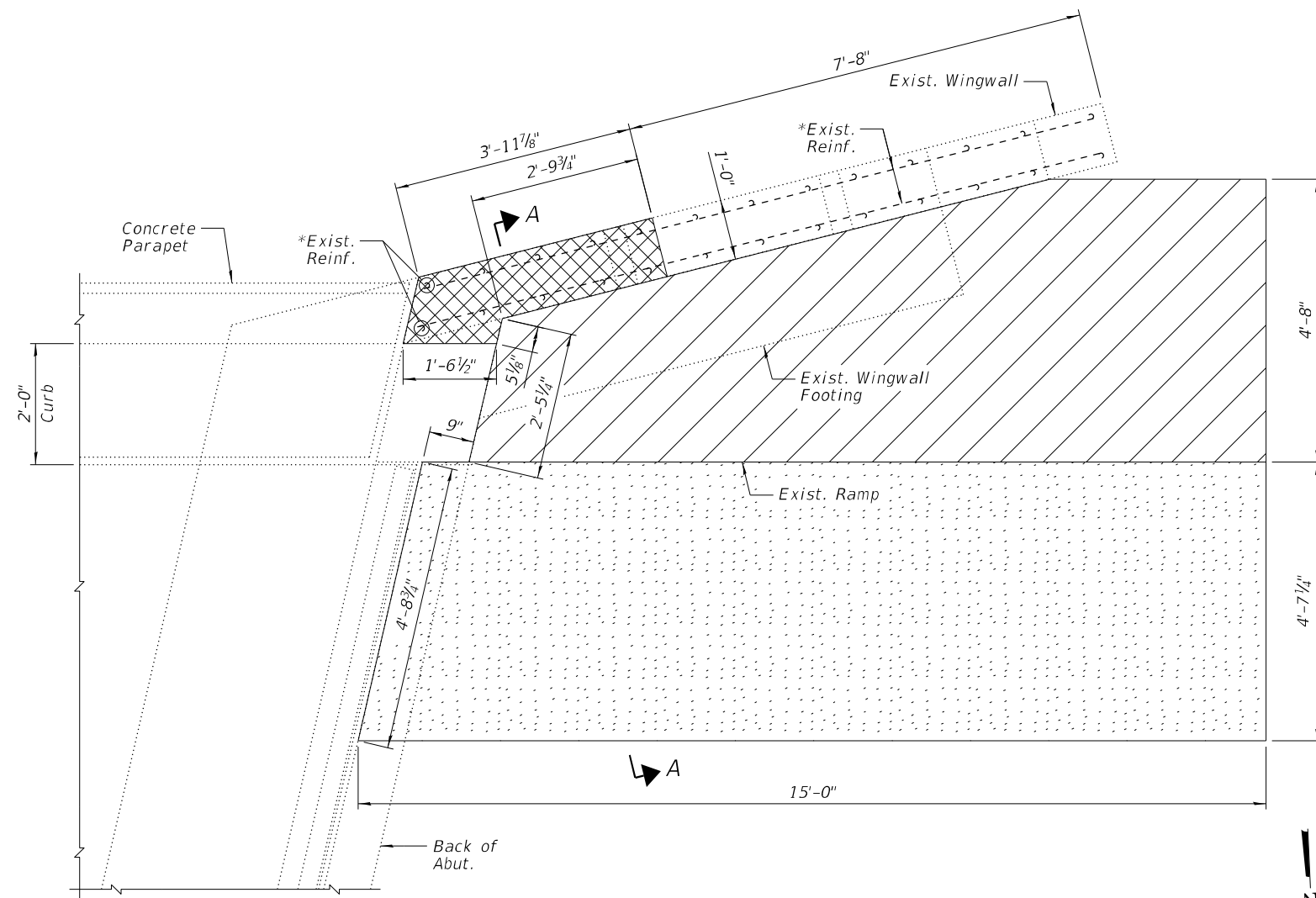
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WINGWALL RETROFIT DETAILS
STRUCTURE NO. 092-9903

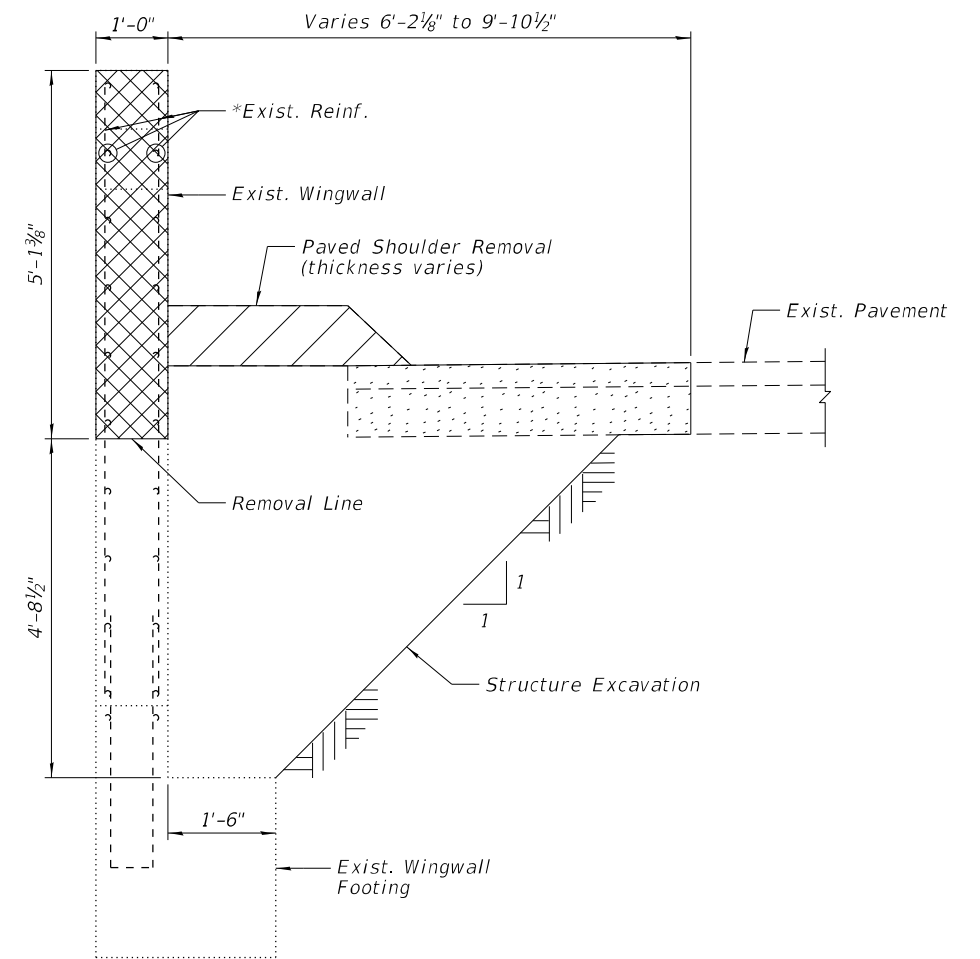
SHEET NO. 10 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	23
CONTRACT NO. 46923				

ILLINOIS FED. AID PROJECT






REMOVAL PLAN SOUTHWEST WINGWALL



SECTION A-A
(Horiz. dimensions @ Rt. L's)

LEGEND

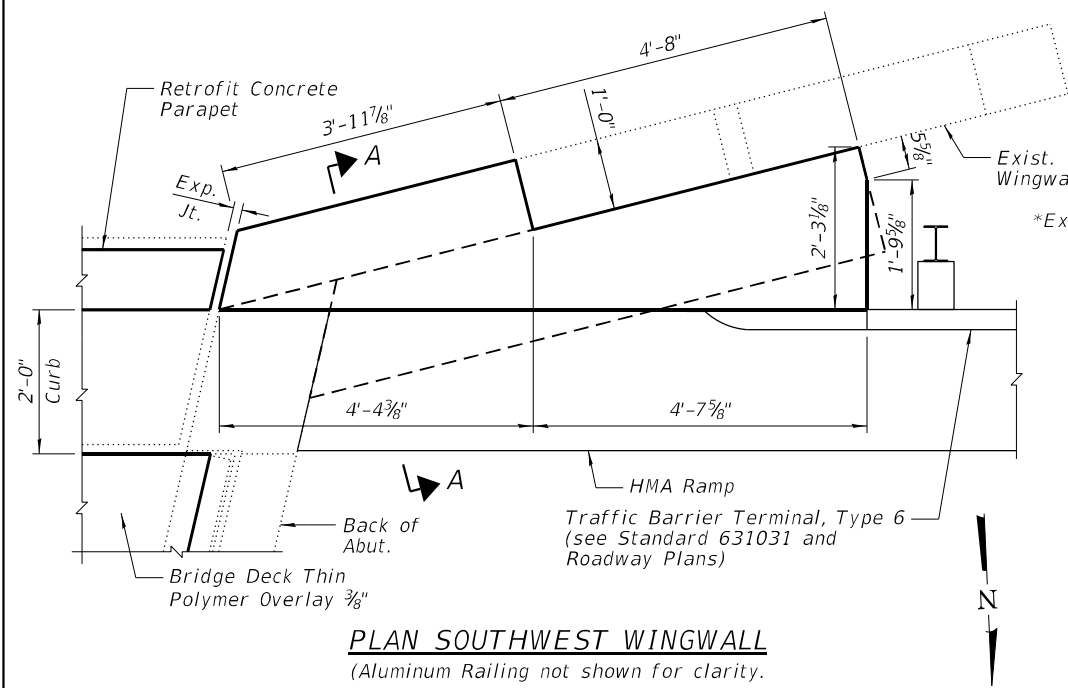
-  Concrete Removal
-  Paved Shoulder Removal
-  Pavement Removal

NOTE:

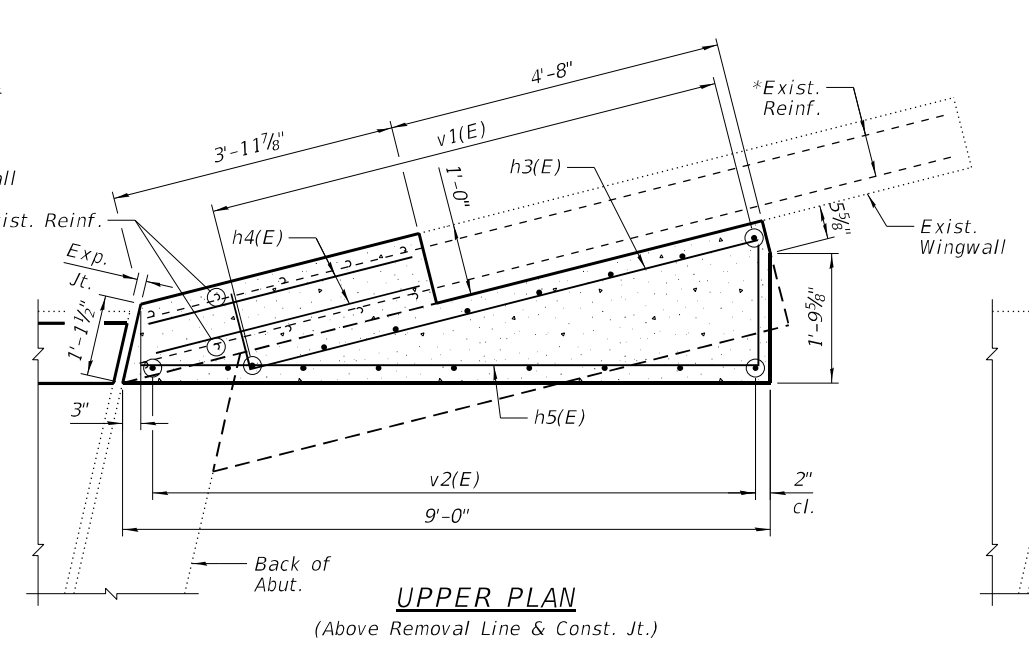
*Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.

DESIGNED - PMG	REVISED
CHECKED - JML	REVISED
DRAWN - DJM	REVISED
CHECKED - JML	REVISED
DATE - 12/17/2021	

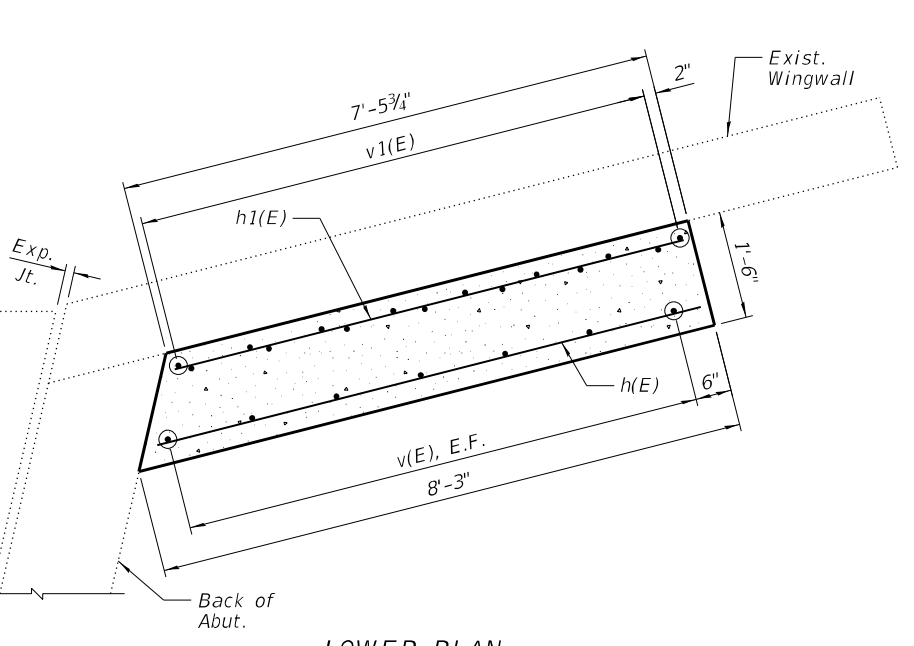
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	24
			CONTRACT NO. 46923	
		ILLINOIS	FED. AID PROJECT	



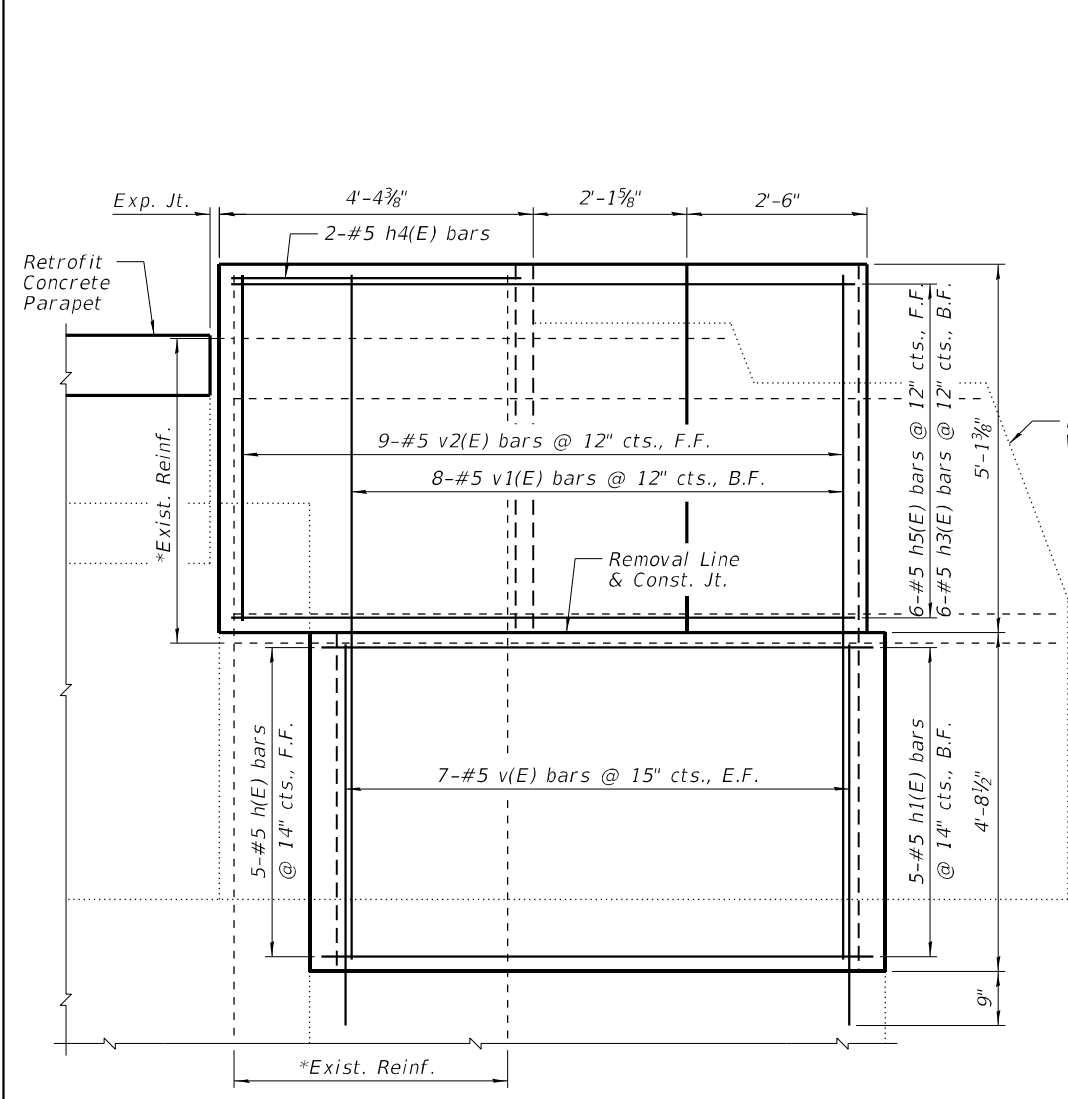
PLAN SOUTHWEST WINGWALL
(Aluminum Railing not shown for clarity.)



UPPER PLAN
(Above Removal Line & Const. Jt.)

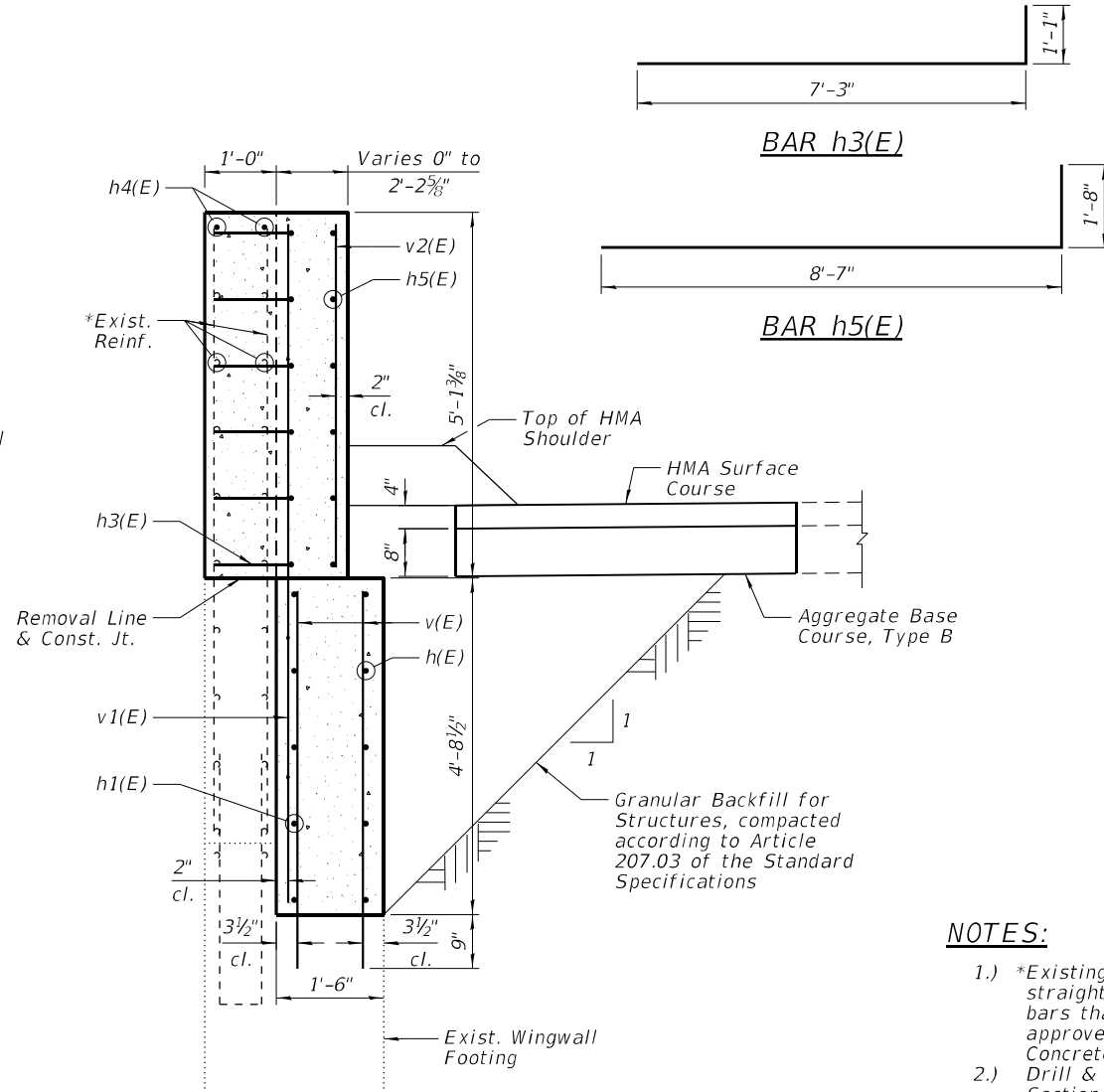


LOWER PLAN
(Below Removal Line)



INSIDE ELEVATION

(Aluminum Railing & Traffic Barrier Terminal, Type 6 not shown for clarity. For Type 6 terminal connections, see Highway Standard 631031.)



SECTION A-A
(Horiz. dimensions @ Rt. L's)

SOUTHWEST WINGWALL BILL OF MATERIAL

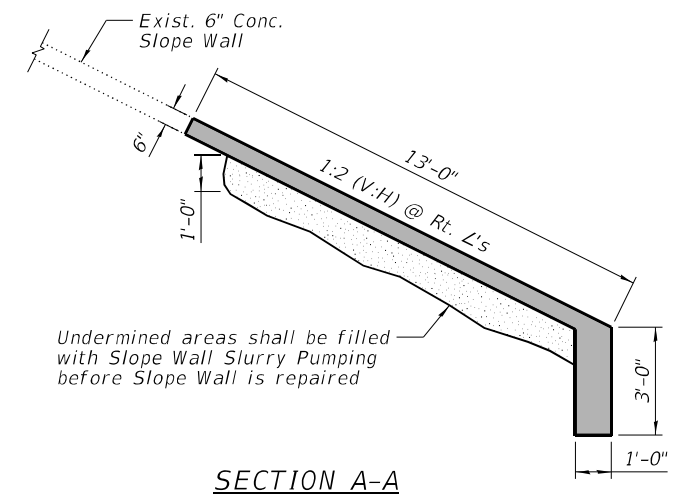
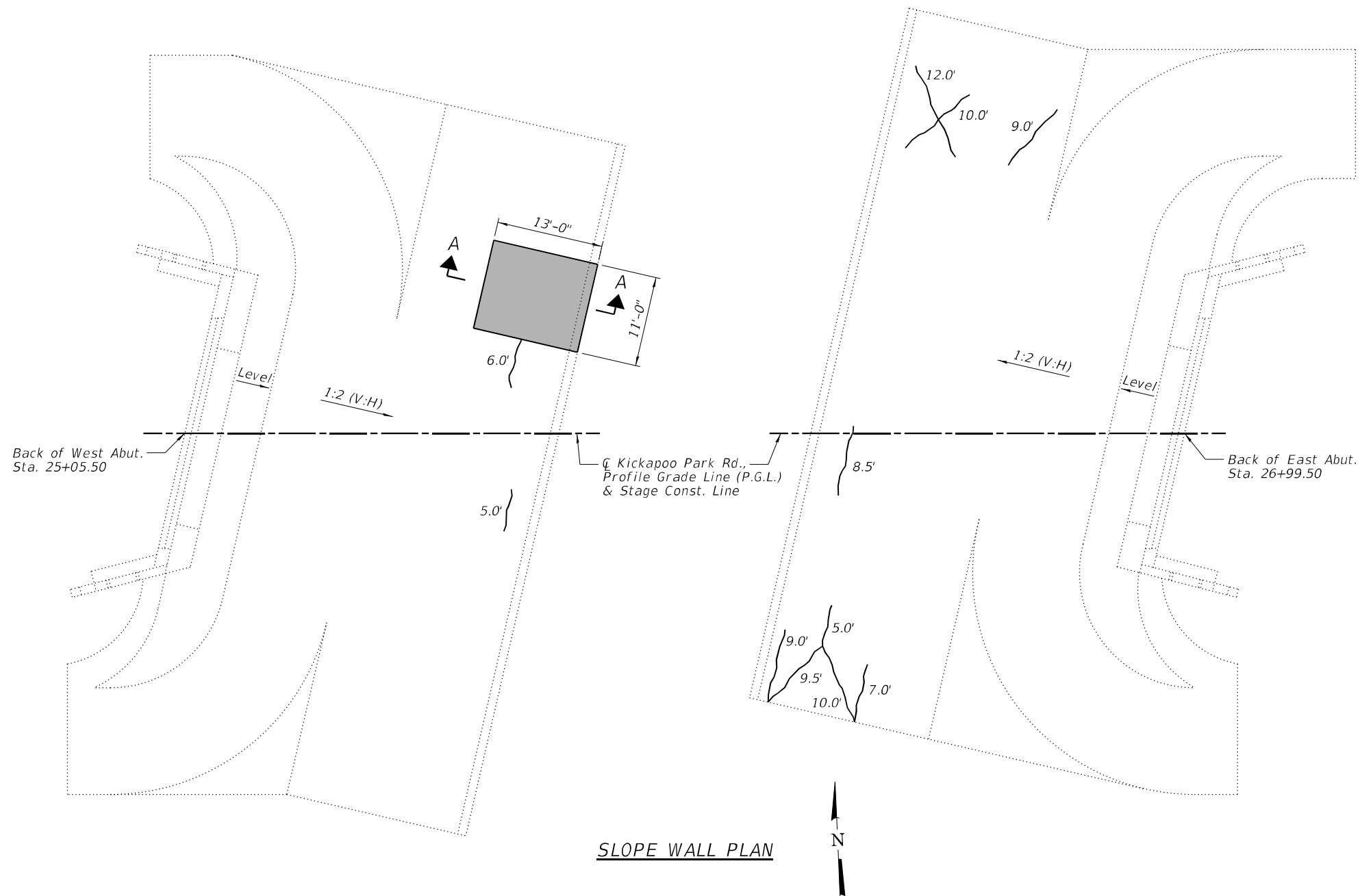
Bar	No.	Size	Length	Shape
h(E)	5	#5	7'-9"	—
h1(E)	5	#5	7'-3"	—
h3(E)	6	#5	8'-4"	┘
h4(E)	2	#5	3'-9"	—
h5(E)	6	#5	10'-3"	┘
v(E)	14	#5	5'-3"	—
v1(E)	8	#5	9'-5"	—
v2(E)	9	#5	4'-9"	—

Item	Unit	Quantity
** Pavement Removal	Sq. Yd.	7
** Paved Shoulder Removal	Sq. Yd.	5
Concrete Removal	Cu. Yd.	0.9
Structure Excavation	Cu. Yd.	9
Concrete Superstructure	Cu. Yd.	4.8
Protective Coat	Sq. Yd.	5
Reinforcement Bars, Epoxy Coated	Pound	400
Granular Backfill for Structures	Cu. Yd.	6
Concrete Sealer	Sq. Ft.	44

** Roadway Quantity

NOTES:

- 1.) *Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.
- 2.) Drill & grout #5 v(E) bars 9" min. into existing concrete according to Section 584 of the Standard Specifications.
- 3.) E.F. denotes Each Face, B.F. denotes Back Face and F.F. denotes Front Face.
- 4.) See Sheet 7 of 21 for Retrofit Concrete Parapet Details.
- 5.) See Roadway Plans for HMA Ramp details.



BILL OF MATERIAL

ITEM	UNIT	TOTAL
Slope Wall Crack Sealing	Foot	91
Slope Wall Repair	Sq. Yd.	16
Slope Wall Slurry Pumping	Cu. Yd.	5.0

LEGEND

- # Slope Wall Crack Sealing
- █ Slope Wall Repair

NOTES:

- 1.) Slope wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0 weighing 58 lbs. per 100 sq. ft.
- 2.) The repair areas shown are estimated based on a field inspection conducted in July 2020. The actual repair areas required shall be verified according to the Special Provisions.

B.M. S.E. corner West Abutment Elevation 564.04
 N.W. corner East Abutment Elevation 564.09
 Existing steel thru truss, 108' span, 15'-6" roadway
 and masonry abutments shall be removed by
 bridge contractor.

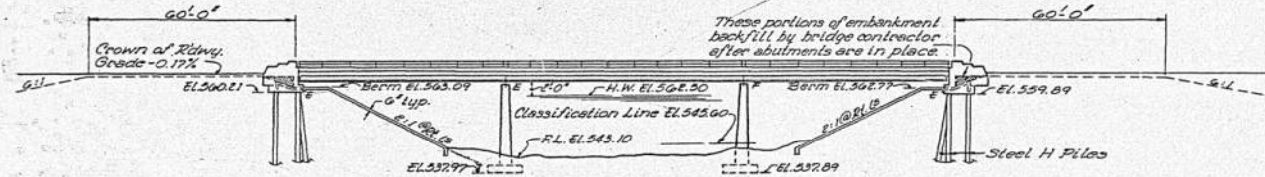
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

SENATE BILL 275

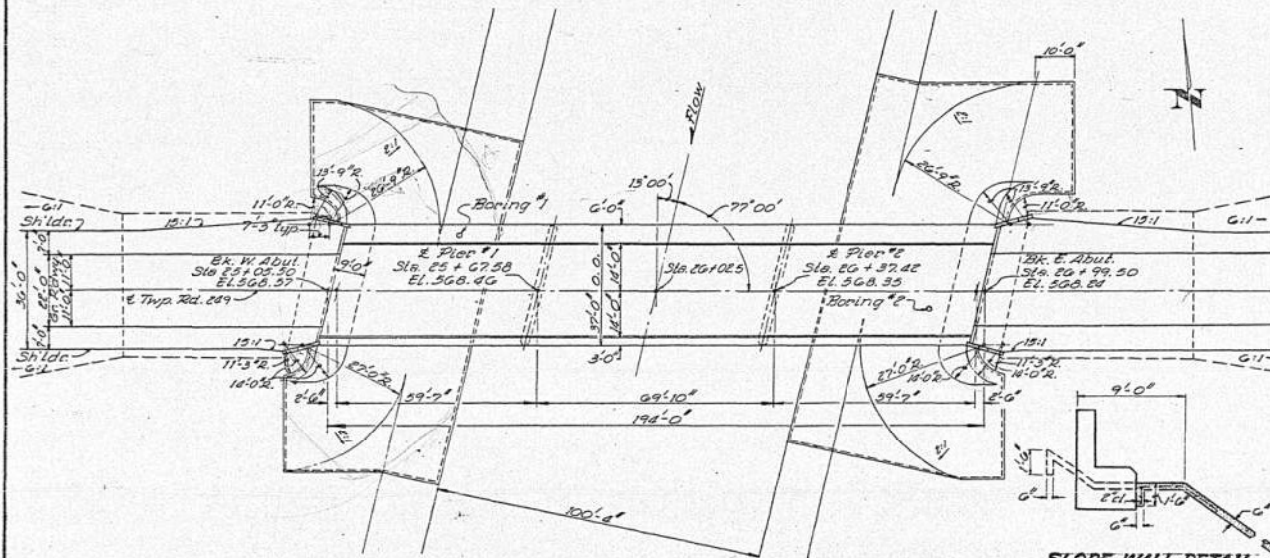
DATE	BY	REVISION	NO.	DATE
*	5BR	VERMILION	19	+
SHEET NO. 1				
9 SHEETS				

GENERAL NOTES

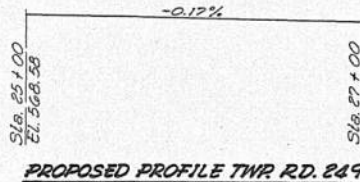
Class X Concrete shall be used throughout except in piers.
 Class A Concrete shall be used in piers.
 Coarse aggregate to be used in parapet, handrails and end posts must
 be absolutely free of chert, flint, limonite, lignite and soft sandstone.
 The concrete floor shall be finished in accordance with Article 51.19
 of the Standard Specifications.
 Slope wall shall be reinforced with welded wire fabric 6" x 6" mesh,
 weighing 58# per 100 sq. ft.
 All reinforcement bars shall be lapped 20 diameters unless
 otherwise shown.
 Rivets 3/4"; Open holes 1 1/2" unless otherwise noted.
 Anchor bolts shall be set before riveting diaphragms over supports.
 The exposed surfaces of expansion guard (4" x 4" x 1/2") shall be given
 two shop coats of red lead paint. The contact surfaces shall be given one
 coat of red lead paint and anchor studs shall not be painted.
 Expansion guards are included in quantity of structural steel.
 Estimated weight = 800 lbs.
 Except as otherwise provided, all structural steel shall receive one
 shop coat of red lead paint and two field coats of aluminum paint. See
 Article 26.1 to 26.5 inclusive of the Standard Specifications.
 The Contractor shall drive one steel test pile in a permanent location
 at the west abutment as directed by the Engineer before ordering the
 remainder of piles.
 Permanent forms will not be permitted in forming the concrete floor.
 Layout of slope walls may be varied to suit ground conditions
 in the field as directed by the Engineer.



ELEVATION



PLAN



PROPOSED PROFILE TWR RD. 249

SLOPE WALL DETAIL

LOCATION PLAN

STATION 26 + 02.5
 BUILT 196 BY
 STATE OF ILLINOIS
 T.R. 249 SEC. 5 BR.
 SENATE BILL 275
 LOADING HS20

NAME PLATE

See Standard 2113-1

* Excavation for Slope Wall is included in Class A
 and Class B Excavation For Structures.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER.	SUB.	TOTAL
Removal of Exist. Structures	Each			1
* Class A Excav. for Structures	Cu. yds.		325	325
* Class B Excav. for Structures	Cu. yds.		209	209
Class A Concrete	Cu. yds.	217.0		217.0
Class X Concrete	Cu. yds.	214.2	81.0	295.2
Reinforcement Bars	Lbs.	43,460	12,380	55,840
Structural Steel	Lbs.	20,430		20,430
Alum. Handrail	Lin. Ft.	382		382
Steel Piles (3 BP 36)	Lin. Ft.		425	425
Test Piles Steel (2 BP 36)	Each		1	1
Name Plates	Each		1	1
Slope Wall	Sq. yds.		1,147	1,147
Protective Coat	Sq. yds.	906		906
Rock Excav. for Structures	Cu. yd.		15	15
Bridge Seat Sealant	L.S.		1	1

WATERWAY INFORMATION
 Drainage Area..... 283,520 Acres.
 Character..... Level, Clay, Cultiv.
 Required Opening (85 yr)..... 2,209 Sq. Ft.
 Present Opening..... 1,258 Sq. Ft.
 Proposed Opening..... 2,363 Sq. Ft.
 Ordinary Water Elevation..... 545.70
 Low Water Elevation..... 544.60

DESIGN STRESSES
 V₀ = 1,400 psi..... Super. & Sub.
 V₁ = 75 psi..... Footings.
 V₂ = 20,000 psi..... Reinforcement.
 V₃ = 20,000 psi..... Struct. (A-36).
 n = 10
LOADING HS20-44

GENERAL PLAN & ELEVATION
 SENATE BILL 275
 TWR RD. 249 SEC. 5 BR.
 VERMILION COUNTY
 STATION 26 + 02.5

DESIGNED V.B. COOPER
 CHECKED P.H. ALLEN
 DRAWN J. MULLENIX
 CHECKED G.H.W.
 EXAMINED H.E. BENNING
 PASSED
 APPROVED V.E. CLIFF
 July 23 1964

FOR INFORMATIONAL
 USE ONLY

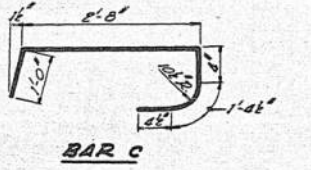
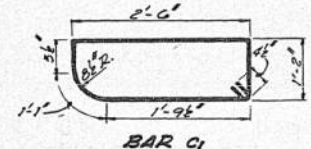
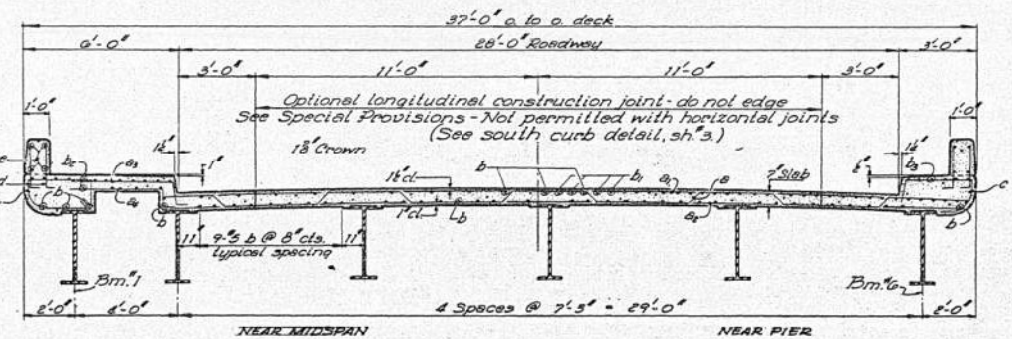
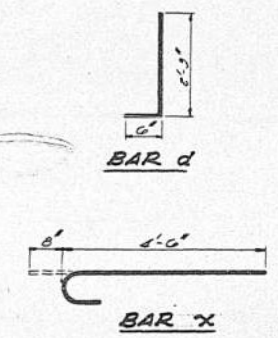
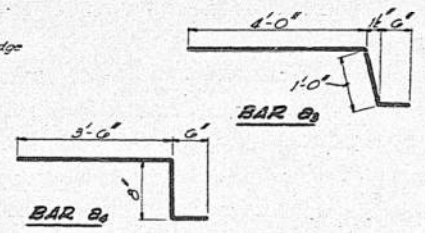
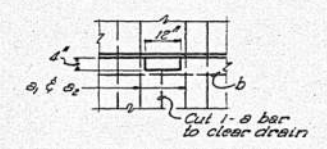
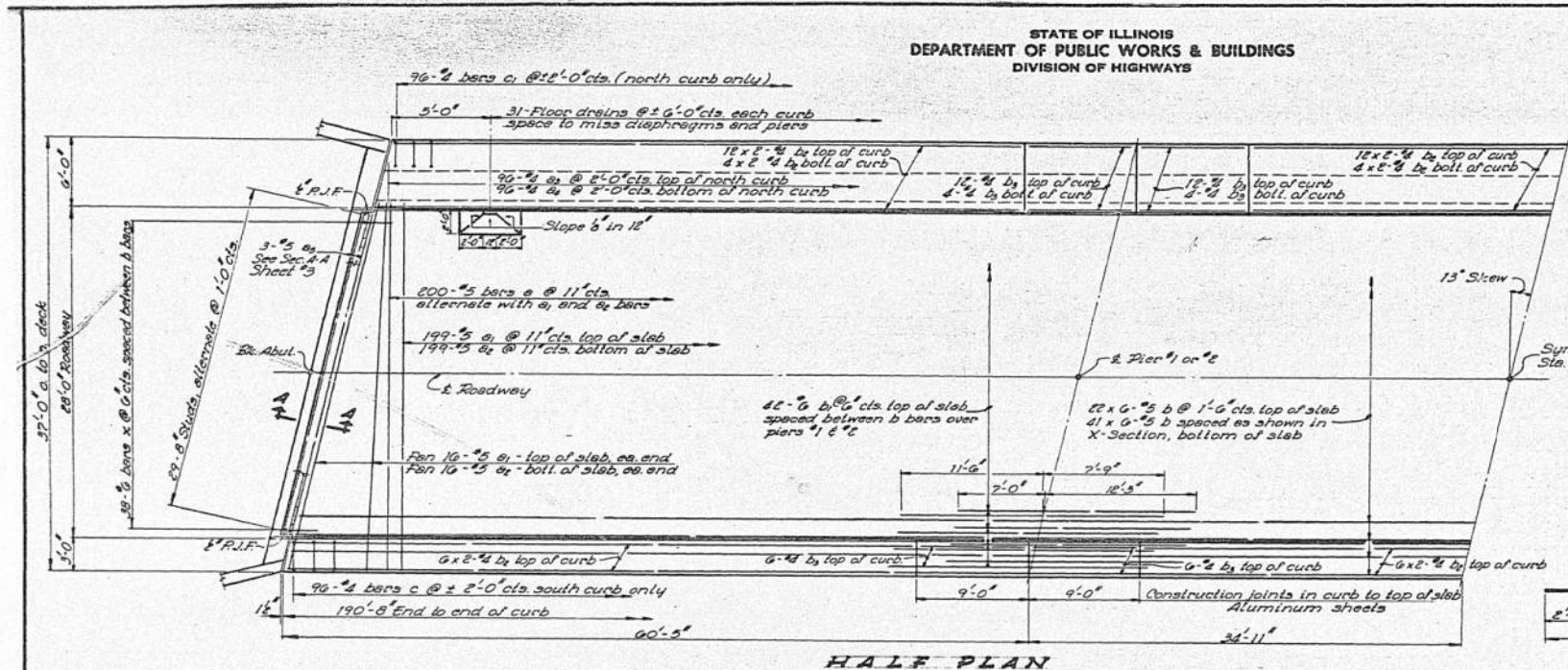
DESIGNED - PMG	REVISED
CHECKED - JML	REVISED
DRAWN - DJM	REVISED
CHECKED - JML	REVISED
DATE - 12/17/2021	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	27
ILLINOIS			CONTRACT NO. 46923	
FED. AID PROJECT				

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

SENATE BILL 275

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	28



BILL OF MATERIAL

Bar No.	Size	Length	Shape
a	200 #5	32.9'	U
a1	231 #5	31.5'	U
a2	231 #5	31.5'	U
a3	90 #4	5.6'	U
a4	90 #4	8.8'	U
a5	0 #5	28.3'	U
b	378 #5	32.8'	U
b1	84 #6	19.5'	U
b2	138 #4	26.4'	U
b3	88 #4	8.9'	U
c	90 #4	5.9'	U
c1	90 #4	7.9'	U
x	70 #6	5.2'	C

Reinforcement Bars Lbs. 4680
Structural Steel Lbs. 10130
Class X Concrete Cuyds. 214.2

*Weight of bearing assemblies with lead plates and anchor bolts are included as structural steel. Estimated wt = 0.950.

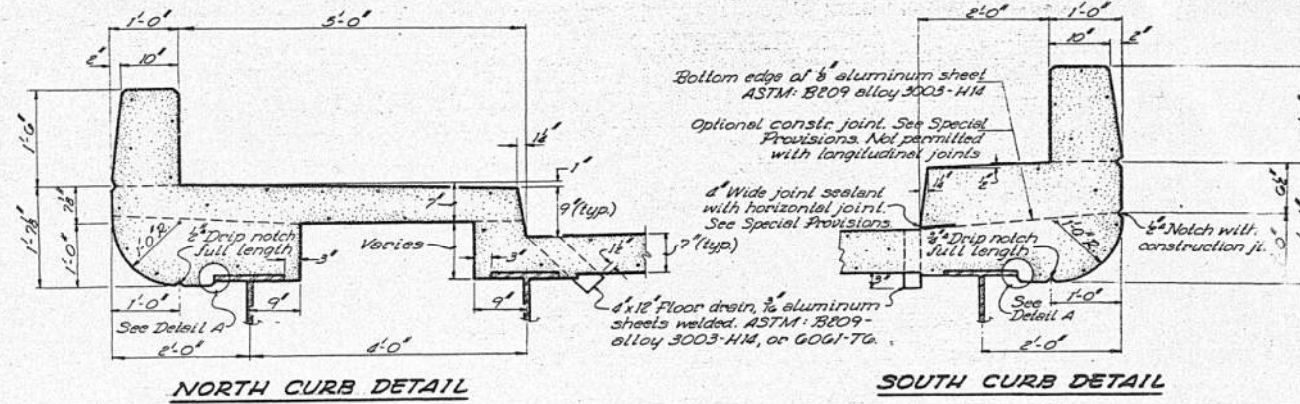
SUPERSTRUCTURE 1
TWR RD. 249 SEC. 5 BR
VERMILION COUNTY
STATION 26+02.5

DESIGNED V.B. DZOGAL
CHECKED P.H. HOFFMAN
DRAWN J. MULLINIX
CHECKED P.H.H.
EXAMINED W.B. BARNHART
PASSED E.L. LINDSEY
APPROVED U.E. BLUFF

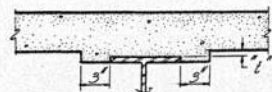
JULY 23 1964

Note: Bars indicated thus 20 x 5-#5 etc. indicates 20 lines of bars with 5 lengths per line. Min. bar laps = 20 diameters.

FOR INFORMATIONAL
USE ONLY

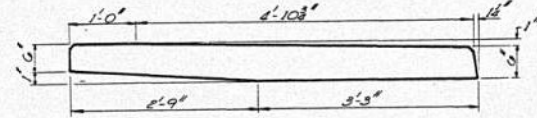


Note: Cost of aluminum drains and sheets shall be incidental to Class X Concrete.



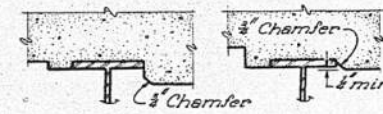
STANDARD FILLET DETAIL

Fillet height equals difference between bottom of slab and top of beam plus dead load deflection shown on this sheet.



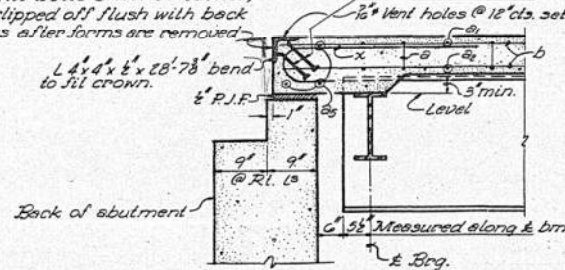
DETAIL OF 1/2" ALUMINUM SHEETS

North curb joints only - ASTM B209 alloy 3003-H14

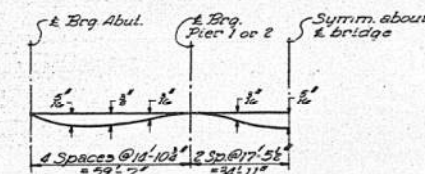


DETAIL A

3/8" x 6" OR 1020 STL granular or solid flux filled headed studs, automatically end welded. Alternate @ 1'-0" cts.
1/2" Vent holes @ 12" cts. set on 1/8" gage line.
1/2" Holes @ 12" cts. for 3/8" bolts set on 2 1/8" gage line. All bolts shall be burned, sawed or clipped off flush with back of angles after forms are removed.



SECTION A-A



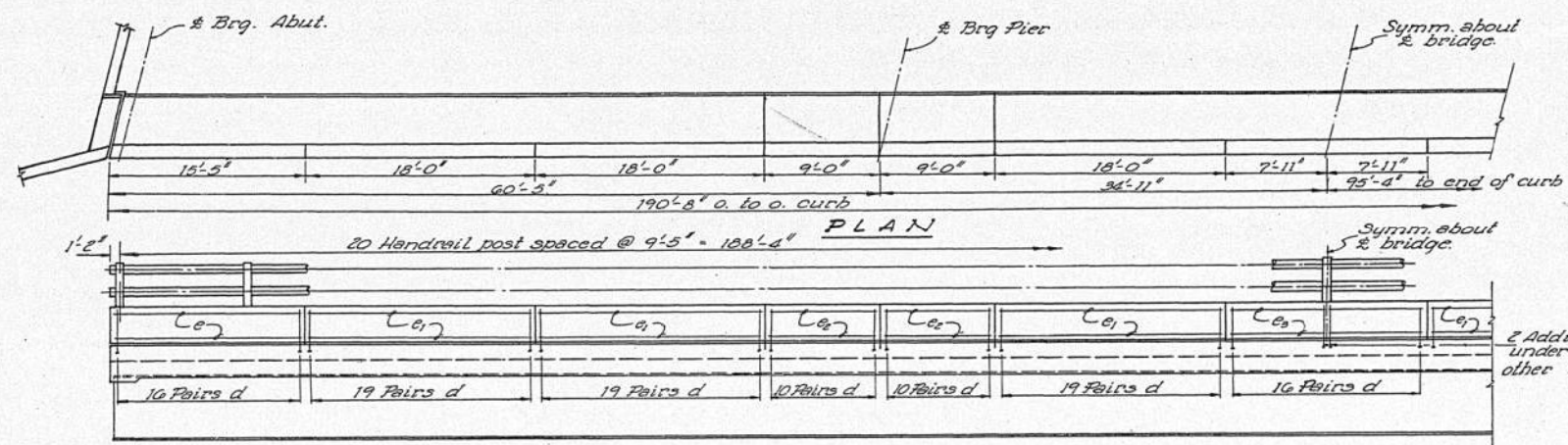
DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of conc. only)

DESIGNED	V.B. O'NEILL	EXAMINED	July 23 1962
CHECKED	G.H. Hyman	PASSED	[Signature]
DRAWN	J. Mullerix	APPROVED	[Signature]
CHECKED	G.H. Hyman		

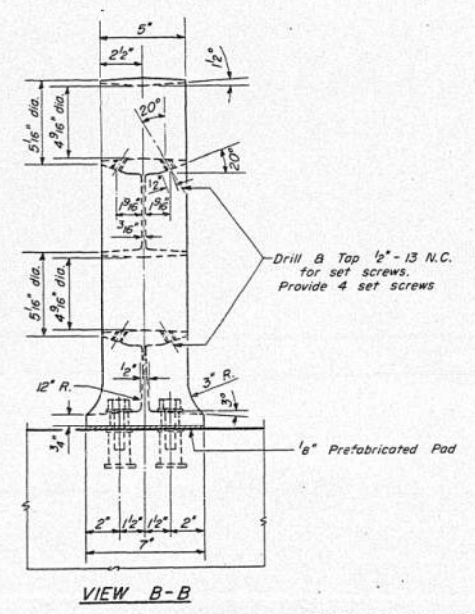
SUPERSTRUCTURE 2
THRRD. 249 SEC. 5BR
VERMILION COUNTY
STATION 26+02.5

FOR INFORMATIONAL
USE ONLY

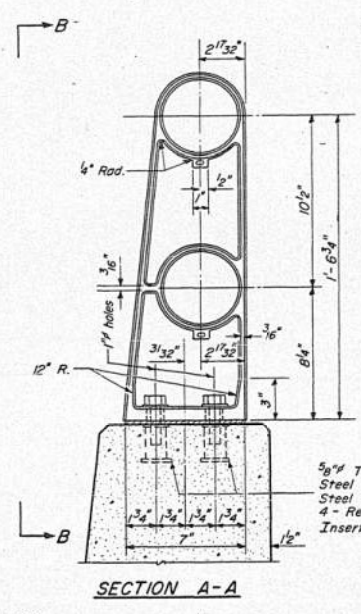
PROJECT NO.	SECTION	SHEET	TOTAL SHEETS
5BR	VERMILION	19	7
SHEET NO. 4			
9 SHEETS			



2 Additional bars d inside face under each handrail post. All other d bars are spaced @ ± 12' cts.

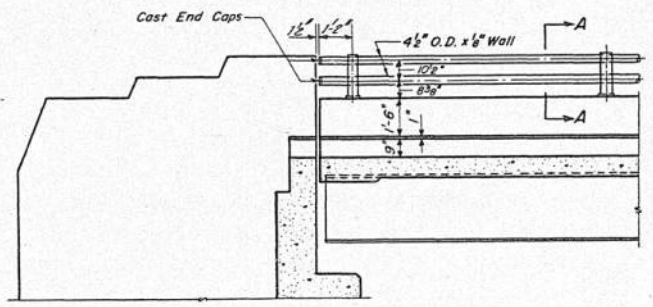
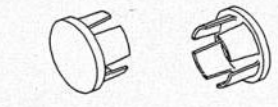


RAIL POST DETAILS



SECTION A-A

CAST END CAP
DRIVE FIT TYPE
B - Required
Incidental to item "Aluminum Handrail."



ELEVATION - END POST

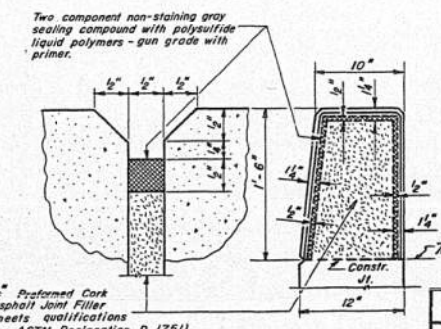
BILL OF MATERIAL

Item	Unit	Quantity
Aluminum Handrail	Lin. Ft.	302

BAR LIST

Bar	No.	Size	Length	Shape
d	892	#3	2'-0"	
e	10	#5	15'-7"	
c	48	#5	17'-9"	
c	32	#5	8'-9"	
c	8	#5	15'-7"	

Note: Concrete & reinforcement bars of parapet walls are included in superstructure quantities, see sheet #2.



PARAPET JOINT DETAIL

ALUMINUM HANDRAIL

TWP RD. 249 SEC. 5BR
VERMILION COUNTY
STATION 20 + 02.5

NOTES
Aluminum handrail will be paid for at the contract unit price per lineal foot for ALUMINUM HANDRAIL, measured as specified, which price shall be payment in full for all materials, fabrication, transportation and erection.
All Posts shall be placed normal to parapet.
All Posts shall be of Aluminum conforming to ASTM Specification B-108 alloy 50-70B-76.
All Rail Tubing shall be of Aluminum conforming to ASTM Specification B-235 alloy 6061-T6, or 6062-T6.
Aluminum handrail shall be measured in lineal feet. The length paid for shall be the overall length along the top longitudinal railing member through all post and gaps.
Rail Tubing may extend a maximum of 3 panel lengths.
For material composition of Prefabricated Pad, See Art. 54.9(1), (Bearings and Anchorage), of the Std. Specs.
Set Screws shall be of Aluminum conforming to ASTM Specification B-211 alloy 2024-T4.

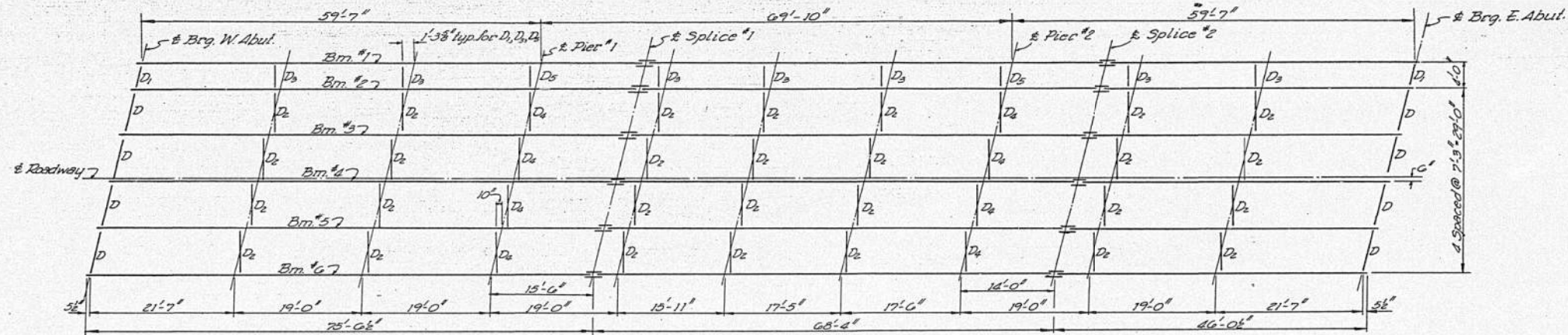
DESIGNED: V.B. DZOGUZ
CHECKED: P.H. HOGAN
P.B.S. J.M. CO. J.C. AF.
DRAWN: W.A. SOUSOMAR
CHECKED: P.H.H.
EXAMINED: W.B. BARNETT
PASSED: [Signature]
APPROVED: U.E. OLEFF
July 23 1964

R-11 Drawn 2-17-60 Rev. 11-2-62 Rev. 7-17-63

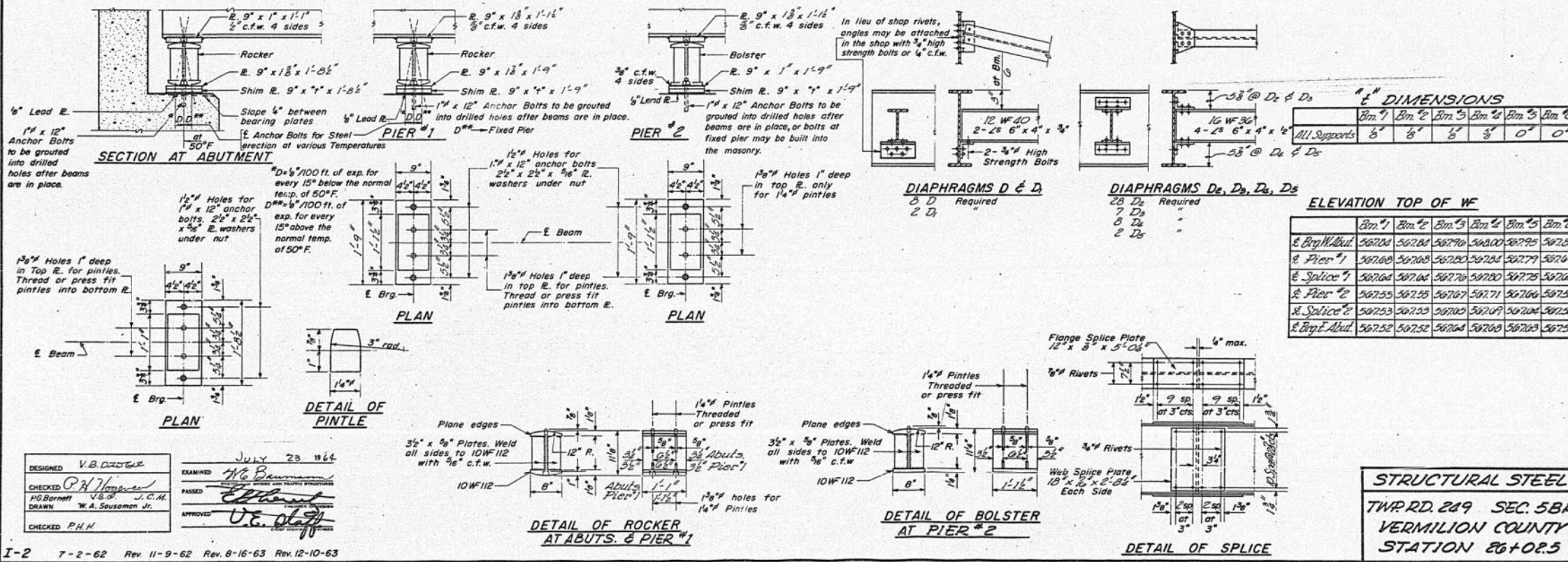
FOR INFORMATIONAL
USE ONLY

DESIGNED - PMG	REVISED
CHECKED - JML	REVISED
DRAWN - DJM	REVISED
CHECKED - JML	REVISED

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	30
CONTRACT NO. 46923				
ILLINOIS FED. AID PROJECT				



STRUCTURAL STEEL LAYOUT
All beams are 36 WF 130



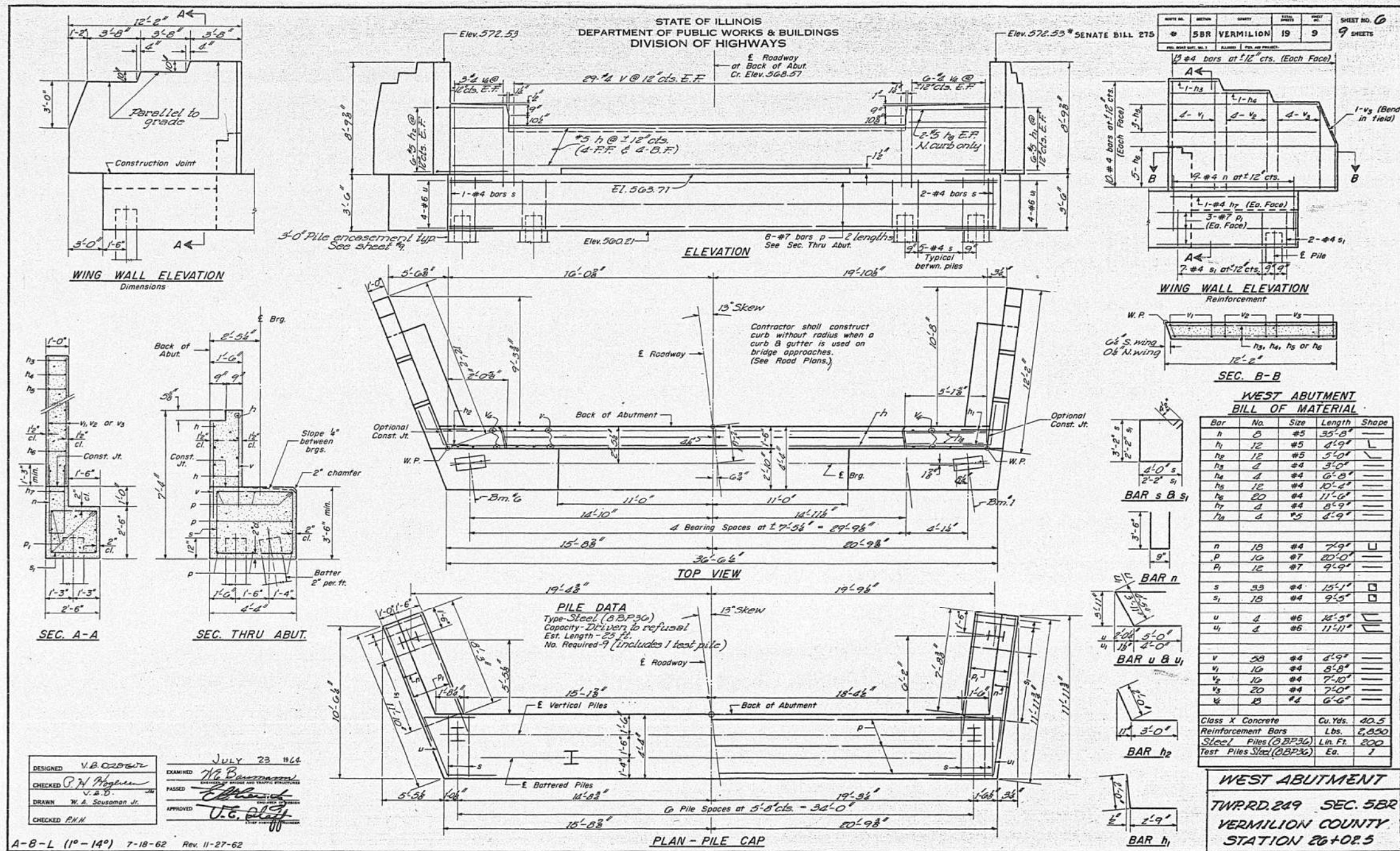
DESIGNED: V.B. DZIDZIC
CHECKED: P.H.H.
DRAWN: W.A. SEUSSON JR.
EXAMINED: H.G. BAUMANN
APPROVED: U.E. CLAFF

JULY 23 1962

I-2 7-2-62 Rev. 11-9-62 Rev. 8-16-63 Rev. 12-10-63

STRUCTURAL STEEL
TWRD. 249 SEC. 5BR
VERMILION COUNTY
STATION 26+08.5

FOR INFORMATIONAL
USE ONLY

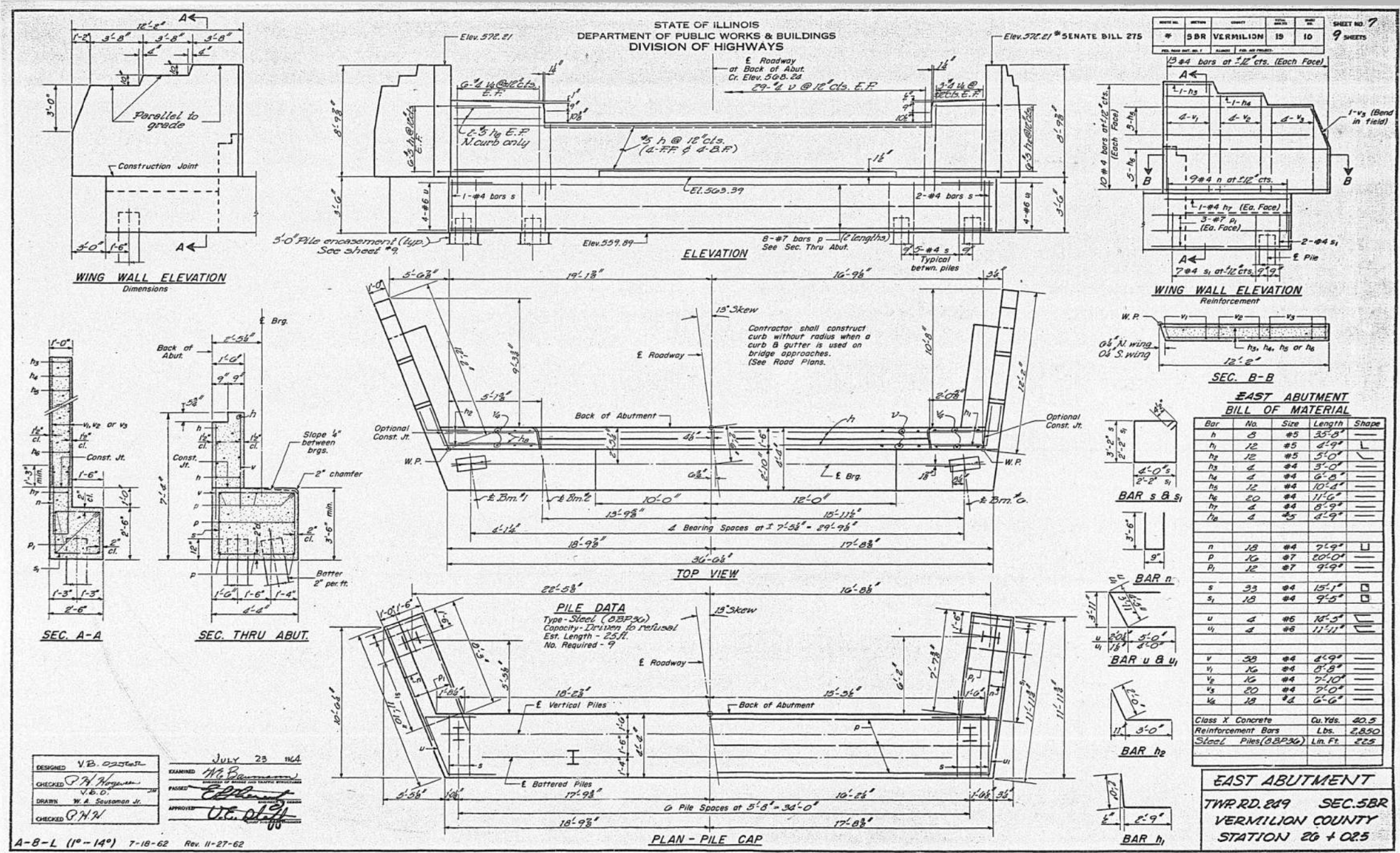


DESIGNED V.B. OZBOWITZ
CHECKED P.H. Hageman
DRAWN W.A. Sausman Jr.
CHECKED P.H.H.

EXAMINED H.B. B...
PASSED E...
APPROVED U.C. O...
JULY 23 1966

A-B-L (1°-14°) 7-18-62 Rev. 11-27-62

FOR INFORMATIONAL
USE ONLY



EAST ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	8	#5	35'-8"	
h ₁	12	#5	8'-9"	
h ₂	12	#5	5'-0"	
h ₃	4	#4	3'-0"	
h ₄	4	#4	6'-8"	
h ₅	12	#4	10'-4"	
h ₆	20	#4	11'-6"	
h ₇	4	#4	8'-9"	
h ₈	4	#5	4'-9"	
n	18	#4	7'-9"	U
p	16	#7	20'-0"	
p ₁	12	#7	9'-9"	
s	33	#4	15'-1"	□
s ₁	12	#4	9'-5"	□
u	4	#6	18'-5"	
u ₁	4	#6	11'-11"	
v	38	#4	8'-9"	
v ₁	16	#4	8'-9"	
v ₂	16	#4	7'-10"	
v ₃	20	#4	7'-10"	
v ₄	18	#4	6'-6"	

Class X Concrete	Qu. Yds.	42.5
Reinforcement Bars	Lbs.	2,850
Steel Piles (BAP36)	Lin. Ft.	225

EAST ABUTMENT
 TWR RD. 219 SEC. 5BR
 VERMILION COUNTY
 STATION 26 + 02.5

DESIGNED: V.B. OSTER
 CHECKED: P.H. Morgan
 DRAWN: W.A. Sausman Jr.
 JULY 23 1964
 EXAMINED: H.B. [Signature]
 PASSED: [Signature]
 APPROVED: U.C. [Signature]

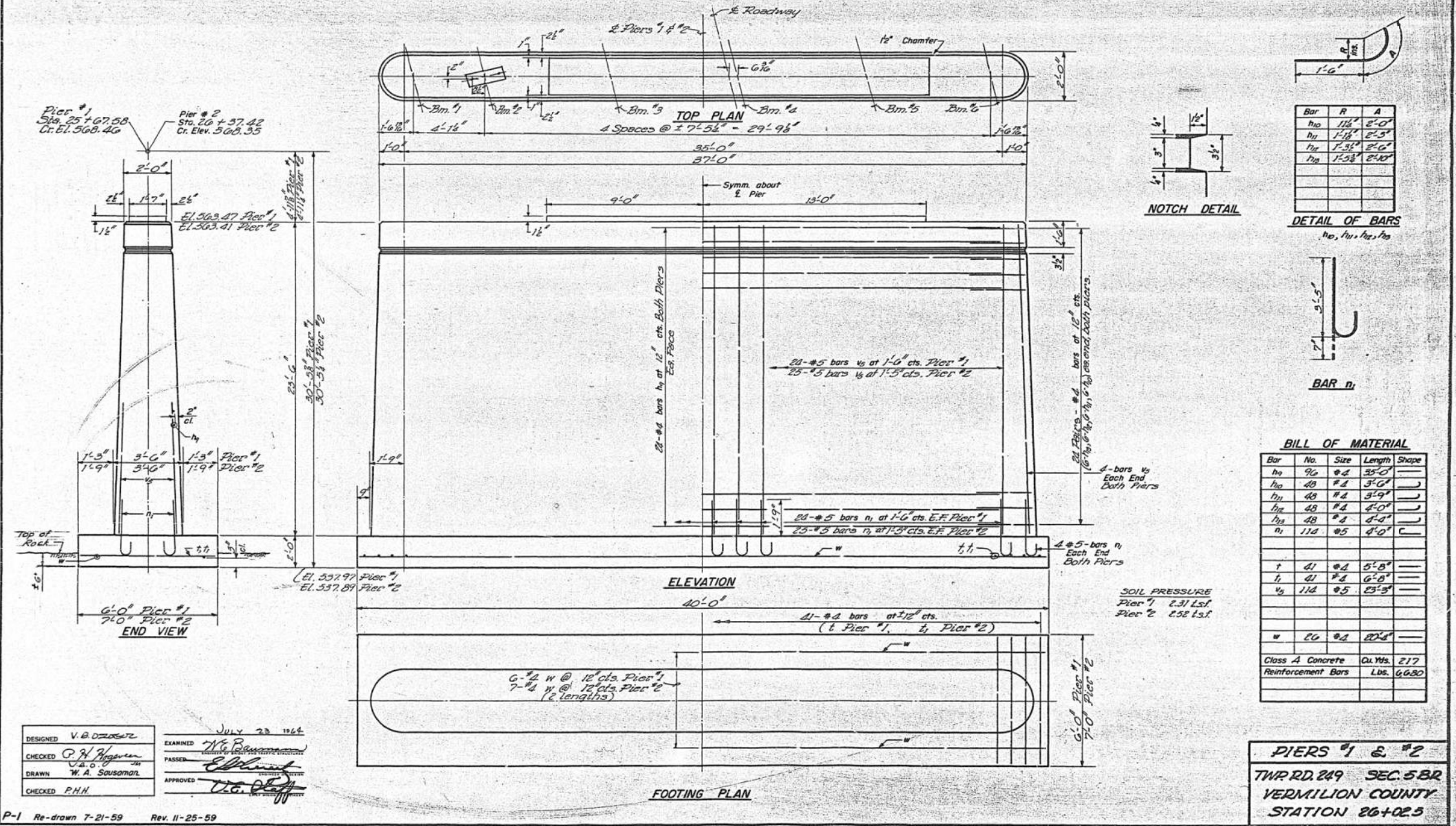
A-8-L (10-14) 7-18-62 Rev. 11-27-62

FOR INFORMATIONAL
 USE ONLY

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

SENATE BILL 275

ROUTE NO.	MILEAGE	SPUR	DATE	SHEET NO.
5 BR	VERMILION	19	11	9 SHEETS



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h10	96	#4	55'-0"	U
h11	48	#4	3'-0"	U
h12	48	#4	3'-0"	U
h13	48	#4	4'-0"	U
h14	48	#4	4'-0"	U
n1	114	#5	4'-0"	C
r	41	#4	5'-0"	U
t	41	#4	6'-0"	U
v	114	#5	25'-3"	U
w	20	#4	20'-0"	U
Class A Concrete		Qt. Yds.	217	
Reinforcement Bars		Lbs.	6680	

PIERS #1 & #2
THRD. 249 SEC. 5 BR
VERMILION COUNTY
STATION 26+02.5

DESIGNED V. B. OSZORSKI
CHECKED C. H. HOFFMAN
DRAWN W. A. SAUSAMAN
CHECKED P. H. HOFFMAN

EXAMINED W. B. BROWN
PASSED E. H. HOFFMAN
APPROVED J. G. DUFF

JULY 23 1964

P-1 Re-drawn 7-21-59 Rev. 11-25-59

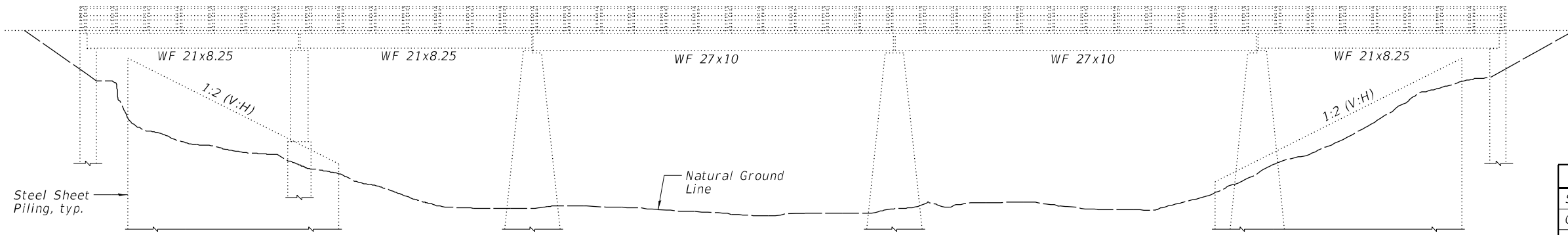
FOR INFORMATIONAL
USE ONLY

Existing Structure: Structure No. 092-9904 was built in 1900, there is no Section Number. In 1987 two sheet pile walls were installed at each end span with riprap to stabilize and restore the embankments. The superstructure consists of a five-span simple rolled steel beam bridge with a 6" thick timber deck. The substructure consists of concrete abutments and four piers. However, foundation details at the substructure units are not known. The back-to-back of abutments length measures 241'-8" and the out-to-out deck width measures 18'-0". The span lengths measure 36'-0", 39'-6", 61'-4", 61'-6", and 41'-0". The structure is not skewed.

No Salvage.

SCOPE OF WORK

- 1.) Remove the existing bridge including substructure units to a minimum of 2'-0" below existing grade and sheet pile walls to a minimum of 5'-0" below normal river flow elevation.

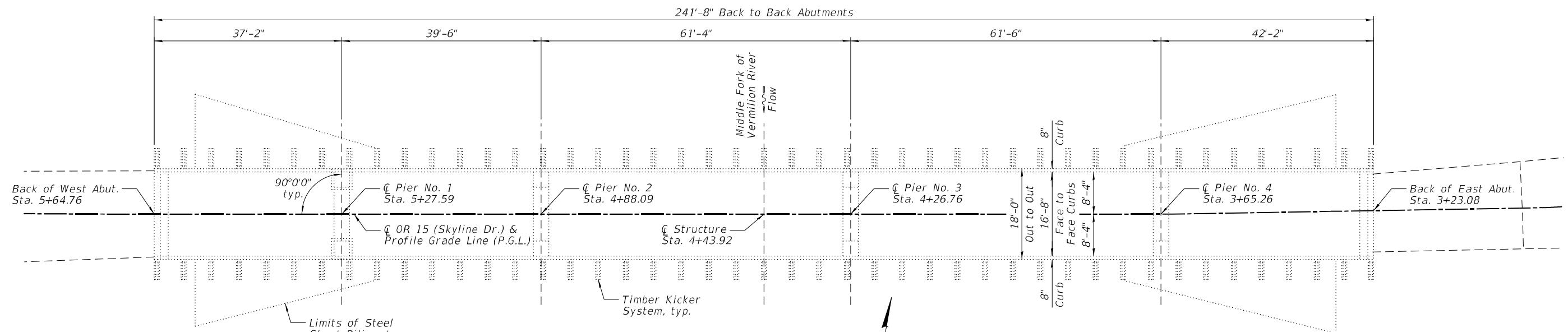


ELEVATION

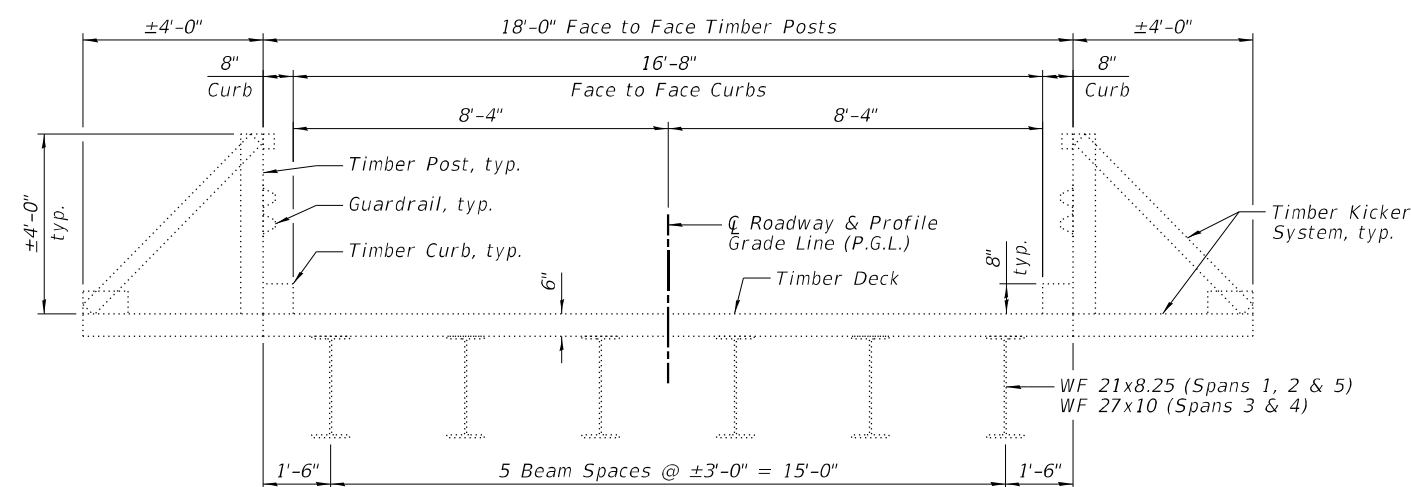
TOTAL BILL OF REMOVAL

(For Information Only)

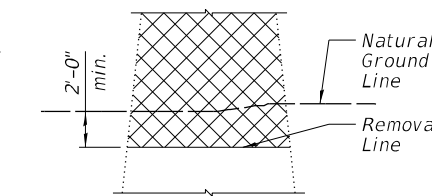
ITEM	UNIT	TOTAL
Structural Steel	Ton	75
Concrete	Ton	690
Timber	Ton	70
Railing	Ton	8
Sheet Piling	Ton	55



PLAN



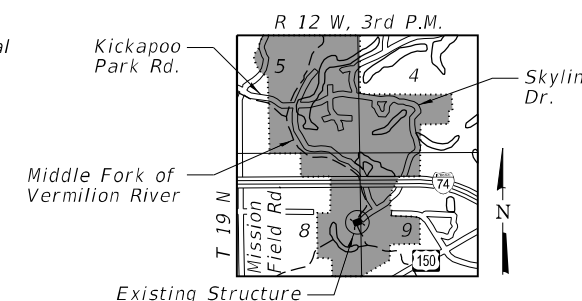
CROSS SECTION
(Looking East)



TYPICAL REMOVAL DETAIL

LEGEND

Removal of Existing Structures



LOCATION SKETCH

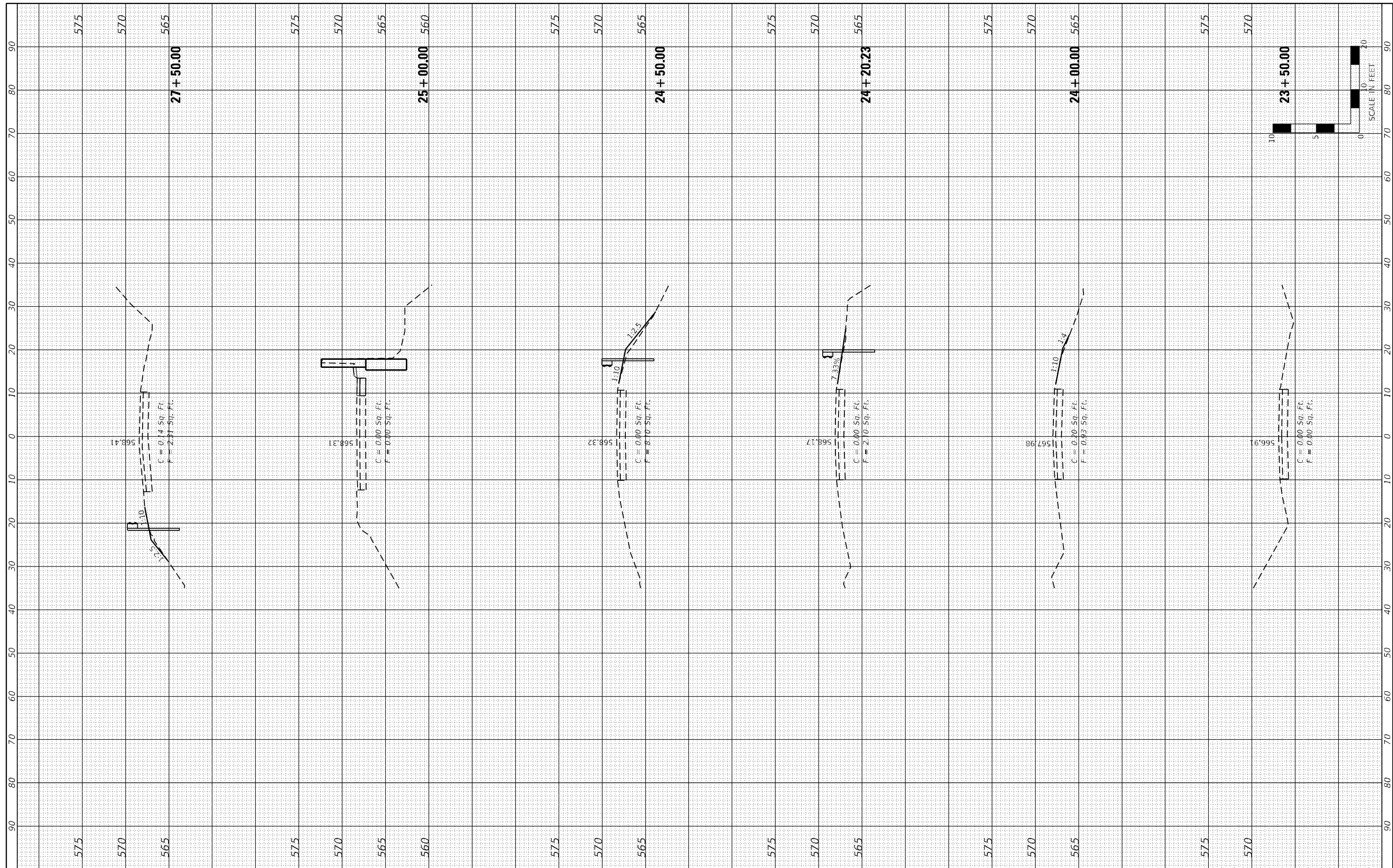
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	Each	1

**GENERAL PLAN AND ELEVATION
OR 15 (SKYLINE DRIVE) OVER
MIDDLE FORK OF
VERMILION RIVER
SECTION KICKAPOO STRUCTURES 2021
VERMILION COUNTY
STATION 4+43.92
STRUCTURE NO. 092-9904**

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

DESIGNED - JGG	REVISED -
CHECKED - GAC	REVISED -
DRAWN - MRA	REVISED -
CHECKED - GAC	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 KICKAPOO STATE PARK**

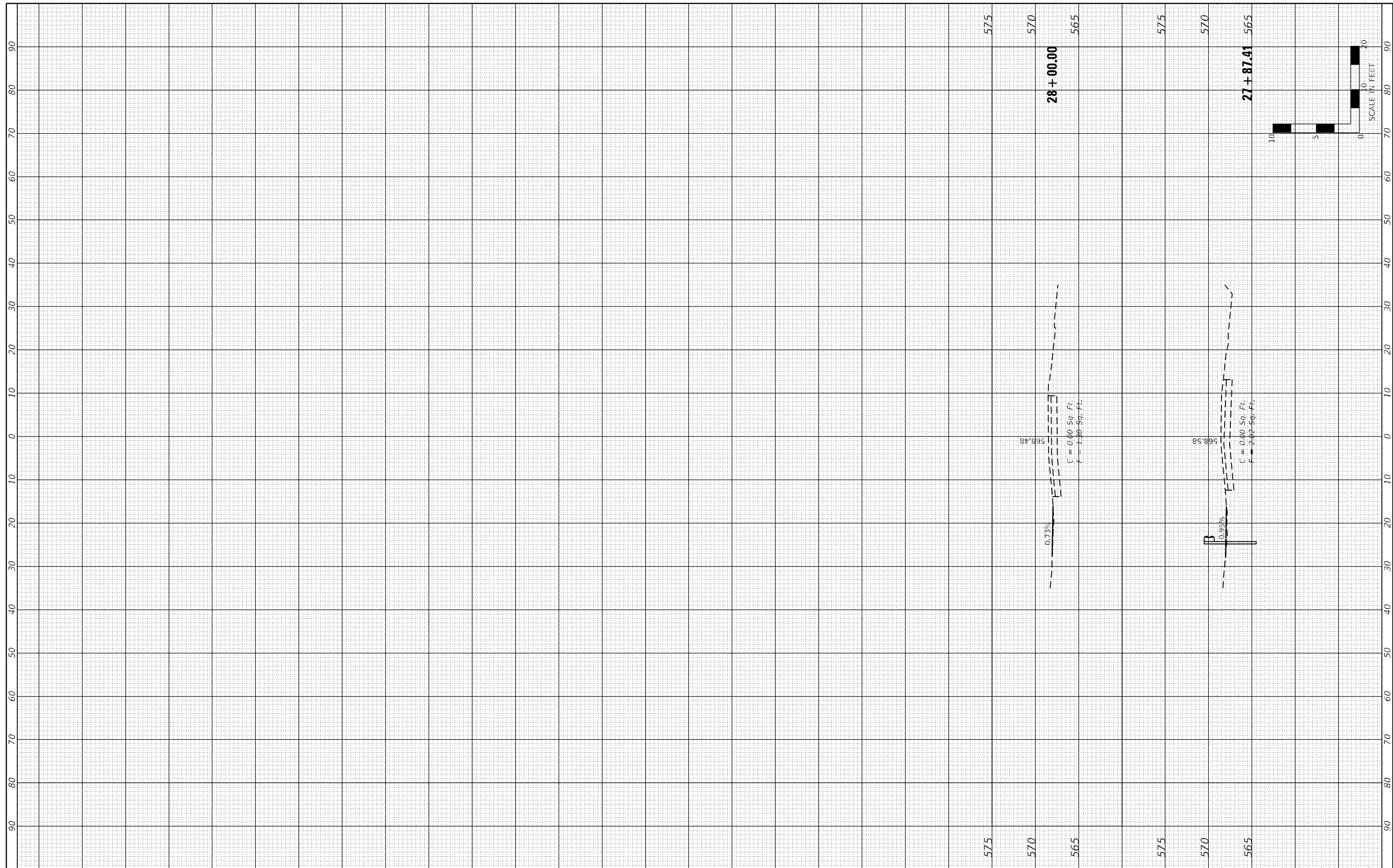
SCALE: SHEET 1 OF 2 SHEETS STA. 2+350 TO STA. 2+750

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	37
CONTRACT NO. 46923				
ILLINOIS FED. AID PROJECT				

DATE - 12/17/2021

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

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



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 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

DESIGNED - JGG	REVISED -
CHECKED - GAC	REVISED -
DRAWN - MRA	REVISED -
CHECKED - GAC	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 KICKAPOO STATE PARK**

SCALE: SHEET 2 OF 2 SHEETS STA. 2+787 TO STA. 2+800

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1507	KICKAPOO STRUCTURES 2021	VERMILION	38	38
CONTRACT NO. 46923				
ILLINOIS FED. AID PROJECT				

DATE - 12/17/2021