

06-16-2023 LETTING ITEM 099

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**STANDARDS (IN PROPOSAL)**

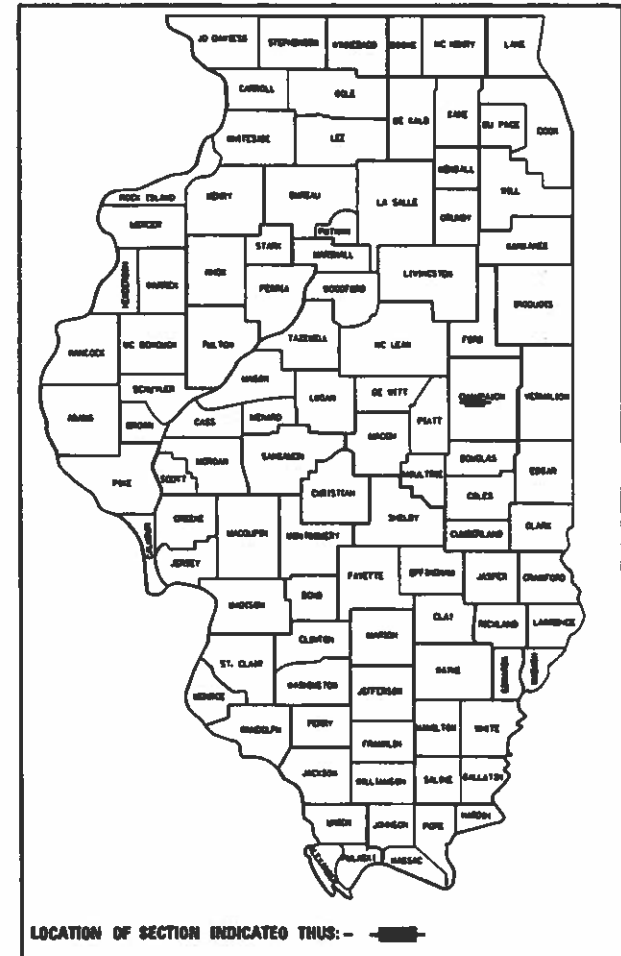
- 000001-08 STANDARO SYMBOLS, ABBREVIATIONS AND PATTERNS
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
**PLANS FOR PROPOSED  
SUPERSTRUCTURE REPLACEMENT  
LOCAL BRIDGE FORMULA PROGRAM**

TR 201A (KIRBY AVE.) OVER KASKASKIA DITCH  
CHAMPAIGN TOWNSHIP  
SECTION 22-03123-00-BR  
PROJECT PBQU(630)  
CHAMPAIGN COUNTY

C-95-005-24

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
201A	22-03123-00-BR	CHAMPAIGN	20	1
CONTRACT NO. 91633				
ILLINOIS FED. AID PROJECT PROJ#6301				



**FUNCTIONAL CLASSIFICATION - LOCAL ROAD**  
CURRENT ADT = 450  
DESIGN SPEED = 50 MPH  
3R GUIDELINES

APPROVED 3/8 2023  
*[Signature]*  
COUNTY ENGINEER

APPROVED \_\_\_\_\_ 20\_\_\_\_  
ROAD COMMISSIONER

PASSED MARCH 20 2023  
*[Signature]*  
DISTRICT FIVE ENGINEER OF LOCAL ROADS AND STREETS

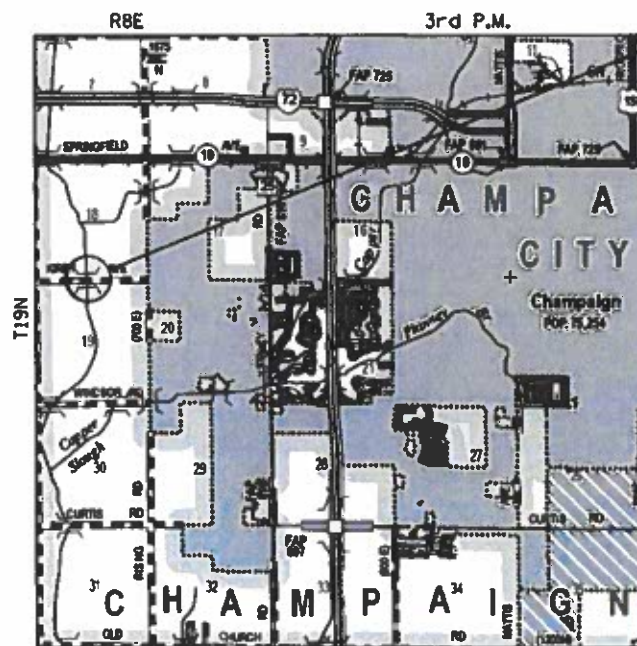
Released For Bid Based on Limited Review March 20 2023  
*[Signature]*  
REGION THREE ENGINEER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**UTILITY COMPANIES:**

AT&T DISTRIBUTION  
1000 COMMERCE DRIVE  
OAK BROOK, IL 60523  
PHONE: (630)-573-6414  
CONTACT: G05256@ATT.COM

URBANA & CHAMPAIGN SANITARY  
1100 E UNIVERSITY AVE  
URBANA, IL 61802  
PHONE: (217)-367-3409 EXT. 1234  
CONTACT: RUPA GANGULY



PROPOSED SECTION 22-03123-00-BR BEGINS STA. 9+80.00 ENDS STA. 10+40.00 EXIST. S.N. 010-4032

**LOCATION MAP**

TOTAL LENGTH = 80.00 FEET (0.016 MI)  
NET LENGTH = 80.00 FEET (0.016 MI)

WORK CONSISTS OF THE REMOVAL OF EXISTING PRECAST CHANNEL BEAMS AND REPLACEMENT WITH PPC DECK BEAMS, SUBSTRUCTURE REHABILITATION, AND THE NECESSARY BACKFILL AND INCIDENTAL APPROACH WORK FOR S.N. 010-4032 AT STA. 10+00.00.



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.L.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
DR 811

**PROJECT MANAGER: MARK R. LEIGHTON, P.E., P.L.S.**

**CONTRACT NO. 91633**



File Name: C:\P\1633 & 20-2023-099 - Proj\1633 & 20-2023-099 - Champaign Co. TR201A over Kaskaskia Ditch\1633-01-01-01-01.dwg  
 2/23/2023

**GENERAL NOTES**

1. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
2. ELEVATIONS USED THROUGHOUT THIS PLAN SET ARE REFLECTED FROM THE EXISTING BRIDGE PLANS FOR S.N. 010-4032.
3. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF CONTRACT ITEMS INVOLVED.
4. THE FOLLOWING APPLICATION RATES HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:  
 TEMPORARY EROSION CONTROL SEEDING: 100 LB/ACRE  
 AGGREGATE BASE COURSE: 2.05 TONS/CU YD  
 AGGREGATE SURFACE COURSE: 2.05 TONS/CU YD  
 RIPRAP: 1.75 TONS/CU YD
5. THE CONTRACTOR'S OPERATIONS AND TEMPORARY STORAGE ACTIVITIES SHALL BE LIMITED TO THE WORK AREA AND/OR CONSTRUCTION LIMITS. ANY ADDITIONAL STAGING AREAS ADJACENT TO THE PROJECT AREA ARE SUBJECT TO PRIOR APPROVAL BY THE ENGINEER AND MUST NOT CONFLICT WITH EXISTING SIDE ROADS, INTERSECTIONS, DRIVEWAYS, OR DRAINAGE. ALL OPERATIONS SHALL BE SUBJECT TO REGULATORY REQUIREMENTS PERMITTED FOR THIS PROJECT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR COMPLIANCE WITH THE ABOVE REQUIREMENTS.
6. DISTURBED AREAS SHALL RECEIVE PERMANENT STABILIZATION WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION ACTIVITIES. TEMPORARY STABILIZATION OF WORK AREAS IS REQUIRED FOR ALL AREAS REMAINING UNDISTURBED FOR 14 DAYS, UNLESS WORK RESUMES PRIOR TO 21 DAYS. TEMPORARY STABILIZATION MUST BE APPROVED BY THE ENGINEER.
7. THE CONTRACTOR SHALL RELOCATE OR REMOVE AND REPLACE ALL SIGNS THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS AND TEMPORARILY RESET ALL SUCH SIGNS DURING ALL STAGES OF CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE ENGINEER WILL DETERMINE THE PERMANENT LOCATION FOR EXISTING SIGNS TO BE RE-ERECTED.
8. CONTRACTOR SHALL FOLLOW CONSTRUCTION REQUIREMENTS OF SECTION 611 WHEN EXISTING FIELD TILE IS ENCOUNTERED. ALL FIELD TILES ENCOUNTERED SHALL BE CAREFULLY PRESERVED, REPAIRED AND CONNECTED TO THE PROPOSED DRAINAGE STRUCTURES, SEWERS OR DITCHES AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE VARIOUS DRAINAGE ITEMS OR AS DIRECTED BY THE ENGINEER.
9. THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN. ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.
10. EMBANKMENTS ON HILLSIDES OR SLOPES SHALL BE CONSTRUCTED ACCORDING TO ARTICLE 205.03.
11. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES PRIOR TO STARTING ANY OTHER CONSTRUCTION WORK AT SITE.
12. CONTRACTOR SHALL VERIFY THE LENGTH OF REQUIRED PIPE CULVERTS AND PIPE DRAINS PRIOR TO ORDERING.
13. WHERE PERMANENT SURVEY MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE DISTURBED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THE LOCATION.

**GENERAL NOTES**

14. THE CONTRACTOR SHALL USE CARE IN ALL REMOVAL ACTIVITIES NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
15. A UNIFORMLY STRAIGHT SAW CUT SHALL BE MADE AT LOCATIONS WHERE PROPOSED CONTROLLED LOW-STRENGTH MATERIAL LIMITS MEET THE EXISTING OIL & CHIP SURFACES. THE SAW CUT SHALL BE MADE FULL DEPTH THROUGH THE EXISTING SURFACE. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT ITEMS INVOLVED AND NO EXTRA COMPENSATION WILL BE ALLOWED.

**COMMITMENTS**

1. THERE ARE NO COMMITMENTS ON THIS PROJECT.

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 design firm no. 184001036  
 engineers + planners + land surveyors



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	DRAWN - GSJ	REVISED -
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PLOT DATE = 2/23/2023	DATE - 2/23/2023	REVISED -

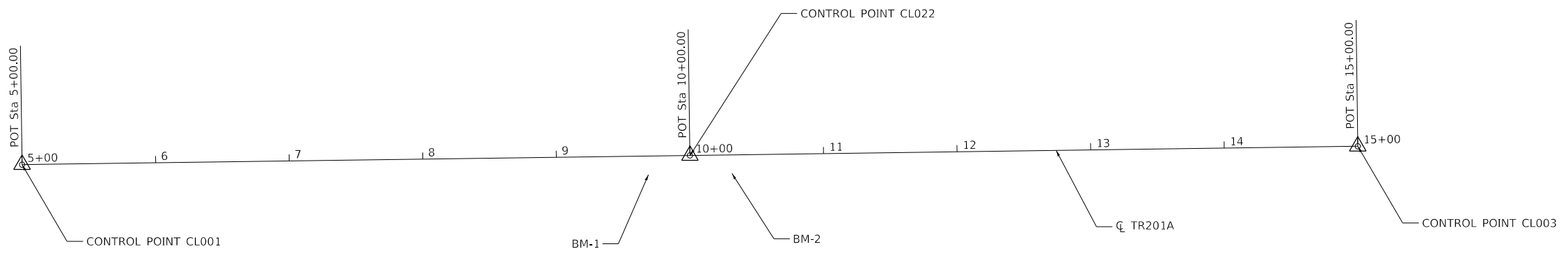
**CHAMPAIGN COUNTY HIGHWAY DEPARTMENT**

**GENERAL NOTES AND COMMITMENTS  
 TR 201A (KIRBY AVE.) OVER KASKASKIA DITCH**

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

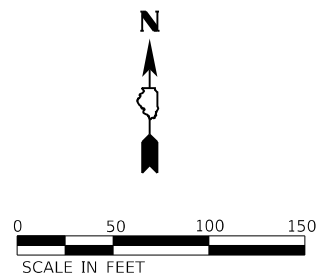
T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
201A	22-03123-00-BR	CHAMPAIGN	20	2
ILLINOIS			FED. AID PROJECT	
			CONTRACT NO. 91633	

Beginning chain TR201A description  
 =====  
 Point CL001        N    1,249,831.459 E    981,164.557 Sta    5+00.00  
 Course from CL001 to CL002 N 89° 12' 40.4" E Dist 500.000  
 Point CL002        N    1,249,838.342 E    981,664.509 Sta    10+00.00  
 Course from CL002 to CL003 N 89° 12' 40.4" E Dist 500.000  
 Point CL003        N    1,249,845.225 E    982,164.462 Sta    15+00.00  
 =====  
 Ending chain TR201A description



BM 1  
 STA 9+68.75, 14.00' RT  
 TOP OF CONCRETE WEST ABUTMENT WINGWALL  
 ELEVATION = 96.52

BM 2  
 STA 10+31.25, 14.00' RT  
 TOP OF CONCRETE EAST ABUTMENT WINGWALL  
 ELEVATION = 96.52



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PLOT DATE = 2/23/2023	DATE - 2/23/2023	REVISED -

**CHAMPAIGN COUNTY HIGHWAY DEPARTMENT**

**ALIGNMENT, TIES, BENCHMARKS**  
**TR 201A (KIRBY AVE.) OVER KASKASKIA DITCH**

SCALE: 1" = 100'    SHEET 1    OF 1    SHEETS    STA.    TO STA.

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
201A	22-03123-00-BR	CHAMPAIGN	20	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 91633	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				BRIDGE
				0013
				S.N. 010-4032
20200100	EARTH EXCAVATION	CU YD	8	8
20300100	CHANNEL EXCAVATION	CU YD	8	8
28100107	STONE RIPRAP, CLASS A4	SQ YD	80	80
28200200	FILTER FABRIC	SQ YD	80	80
35101400	AGGREGATE BASE COURSE, TYPE B	TON	30	30
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1
50102400	CONCRETE REMOVAL	CU YD	0.2	0.2
50200100	STRUCTURE EXCAVATION	CU YD	19.4	19.4
50300225	CONCRETE STRUCTURES	CU YD	6.5	6.5
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	1717	1717
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	870	870
* 50900205	STEEL RAILING, TYPE S1	FOOT	127	127
51500100	NAME PLATES	EACH	1	1
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	44	44

\*SPECIALTY ITEMS

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PLOT DATE = 2/23/2023	DATE - 2/23/2023	REVISED -

**CHAMPAIGN COUNTY HIGHWAY DEPARTMENT**

**SUMMARY OF QUANTITIES  
TR 201A (KIRBY AVE.) OVER KASKASKIA DITCH**

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

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
201A	22-03123-00-BR	CHAMPAIGN	20	4
ILLINOIS			FED. AID PROJECT	
			CONTRACT NO. 91633	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				BRIDGE
				0013
				S.N. 010-4032
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	8	8
60103400	PIPE DRAINS, CORRUGATED STEEL 10"	FOOT	20	20
60103600	PIPE DRAINS, CORRUGATED STEEL 15"	FOOT	20	20
60103700	PIPE DRAINS, CORRUGATED STEEL 18"	FOOT	20	20
60103800	PIPE DRAINS, CORRUGATED STEEL 21"	FOOT	20	20
60103900	PIPE DRAINS, CORRUGATED STEEL 24"	FOOT	20	20
60104000	PIPE DRAINS, CORRUGATED STEEL 27"	FOOT	20	20
67100100	MOBILIZATION	L SUM	1	1
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.25	0.25
* X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1
X6110073	EXISTING FIELD TILE REMOVAL	FOOT	160	160
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1
* Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1

\* SPECIALTY ITEMS

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	DATE - 2/23/2023	REVISED -

**CHAMPAIGN COUNTY HIGHWAY DEPARTMENT**

**SUMMARY OF QUANTITIES  
TR 201A (KIRBY AVE.) OVER KASKASKIA DITCH**

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

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
201A	22-03123-00-BR	CHAMPAIGN	20	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 91633	

LOCATION	20200100	20300100	FOR INFORMATION ONLY		EARTHWORK BALANCE WASTE(+) AND SHORTAGE (-) CU. YD.
	EARTH EXCAVATION	CHANNEL EXCAVATION	EXCAVATION TO BE USED IN EMBANKMENT (ADJUSTED FOR SHRINKAGE) (EXC. x 0.75)	EMBANKMENT (FILL)	
	CU. YD.	CU. YD.	CU. YD.	CU. YD.	
STA. 9+60.00 TO STA. 9+67.50	4		3	5	-2
STA. 9+67.50 TO STA. 10+32.50		8	* 3		3
STA. 10+32.50 TO STA. 10+40.00	4		3	4	-1
TOTAL	8	8	9	9	0

EARTH EXCAVATION SHRINKAGE FACTOR = 25%

\*CHANNEL EXCAVATION USED IN EMBANKMENT= 50%

35101400 AGGREGATE BASE COURSE, TYPE B

TR 201A (KIRBY AVE.)	TON
CL 9+60.00 TO CL 9+68.17	15
CL 10+31.8 TO CL 10+40.00	15
TOTAL	30

60103900 PIPE DRAINS, CORRUGATED STEEL 24"

TR 201A (KIRBY AVE.)	FOOT
TOTAL	20

X7011800 TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21

TR 201A (KIRBY AVE.)	L SUM
TOTAL	1

60100060 CONCRETE HEADWALLS FOR PIPE DRAINS

TR 201A (KIRBY AVE.)	EACH
TOTAL	8

60104000 PIPE DRAINS, CORRUGATED STEEL 27"

TR 201A (KIRBY AVE.)	FOOT
TOTAL	20

60103400 PIPE DRAINS, CORRUGATED STEEL 10"

TR 201A (KIRBY AVE.)	FOOT
TOTAL	20

67100100 MOBILIZATION

TR 201A (KIRBY AVE.)	L SUM
TOTAL	1

60103600 PIPE DRAINS, CORRUGATED STEEL 15"

TR 201A (KIRBY AVE.)	FOOT
TOTAL	20

X2501000 SEEDING, CLASS 2 (SPECIAL)

TR 201A (KIRBY AVE.)	ACRE
LT 9+60.00 TO LT 9+68.17	0.03
LT 10+31.8 TO LT 10+40.00	0.03
RT 9+60.00 TO RT 9+68.17	0.03
RT 10+31.8 TO RT 10+40.00	0.03
* TOTAL PER MIN. DEGREE OF ACCURACY	TOTAL 0.25

60103700 PIPE DRAINS, CORRUGATED STEEL 18"

TR 201A (KIRBY AVE.)	FOOT
TOTAL	20

60103800 PIPE DRAINS, CORRUGATED STEEL 21"

TR 201A (KIRBY AVE.)	FOOT
TOTAL	20

X6110073 EXISTING FIELD TILE REMOVAL

TR 201A (KIRBY AVE.)	FOOT
TOTAL	160

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CHAMPAIGN COUNTY HIGHWAY DEPARTMENT

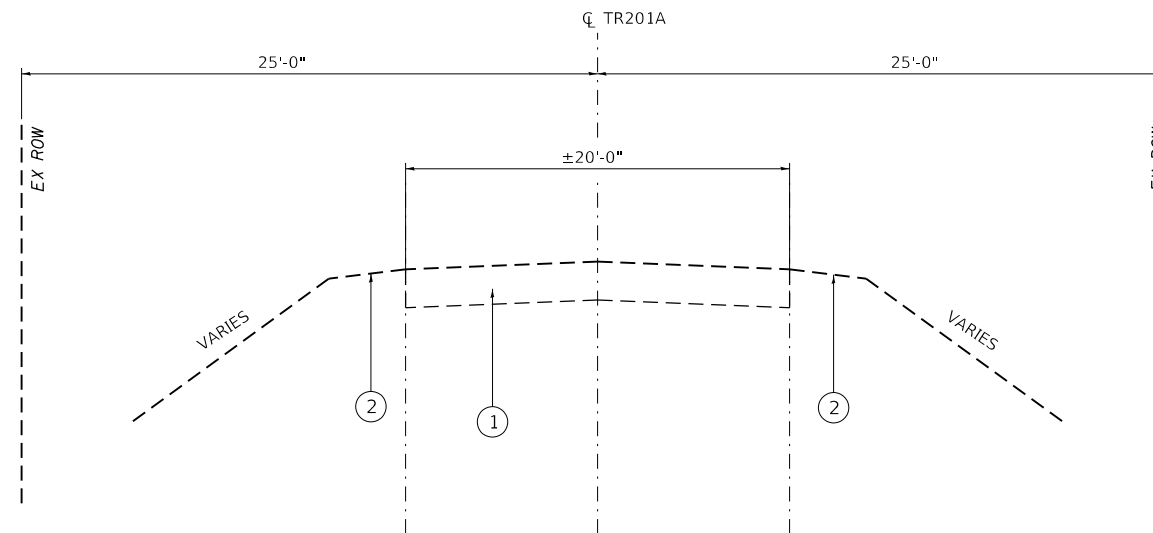
SCHEDULE OF QUANTITIES  
TR 201A (KIRBY AVE.) OVER KASKASKIA DITCH

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

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
201A	22-03123-00-BR	CHAMPAIGN	20	6
ILLINOIS			CONTRACT NO. 91633	
FED. AID PROJECT				

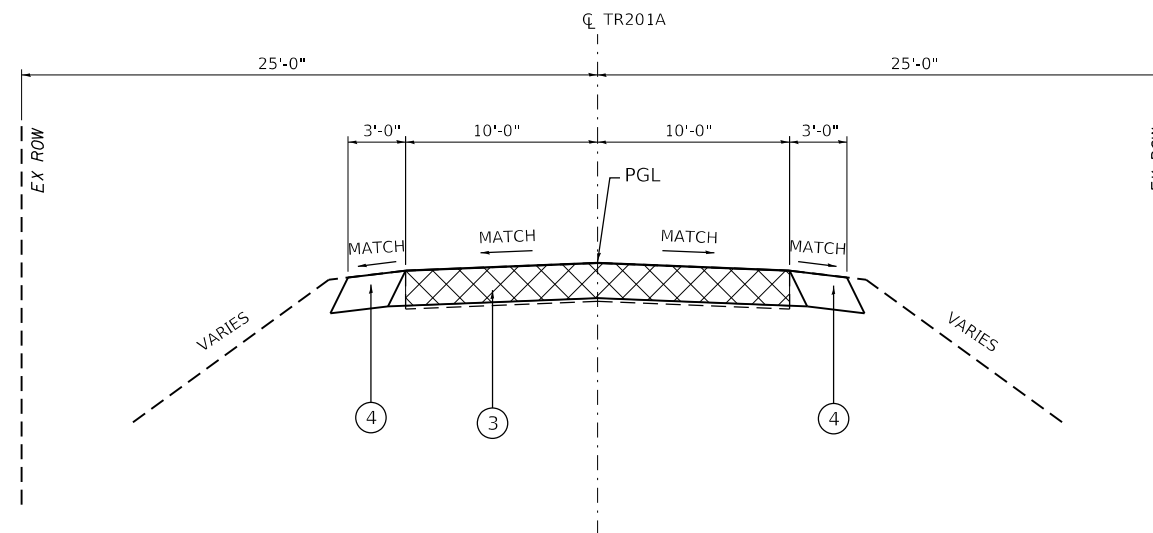
**LEGEND**

- ① EX OIL AND CHIP
- ② EX SHOULDER
- ③ PR AGGREGATE BASE COURSE, TYP B (8")
- ④ PR GUARDRAIL AGGREGATE EROSION CONTROL



**EXISTING TYPICAL SECTION**

STA. 9+60.00 TO STA. 9+67.50  
 BRIDGE OMISSION STA. 9+67.50 TO 10+32.50  
 STA. 10+32.50 TO STA. 10+40.00  
 (LOOKING EAST)



**PROPOSED TYPICAL SECTION**

STA. 9+60.00 TO STA. 9+67.50  
 BRIDGE OMISSION STA. 9+67.50 TO 10+32.50  
 STA. 10+32.50 TO STA. 10+40.00  
 (LOOKING EAST)

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**CHAMPAIGN COUNTY HIGHWAY DEPARTMENT**

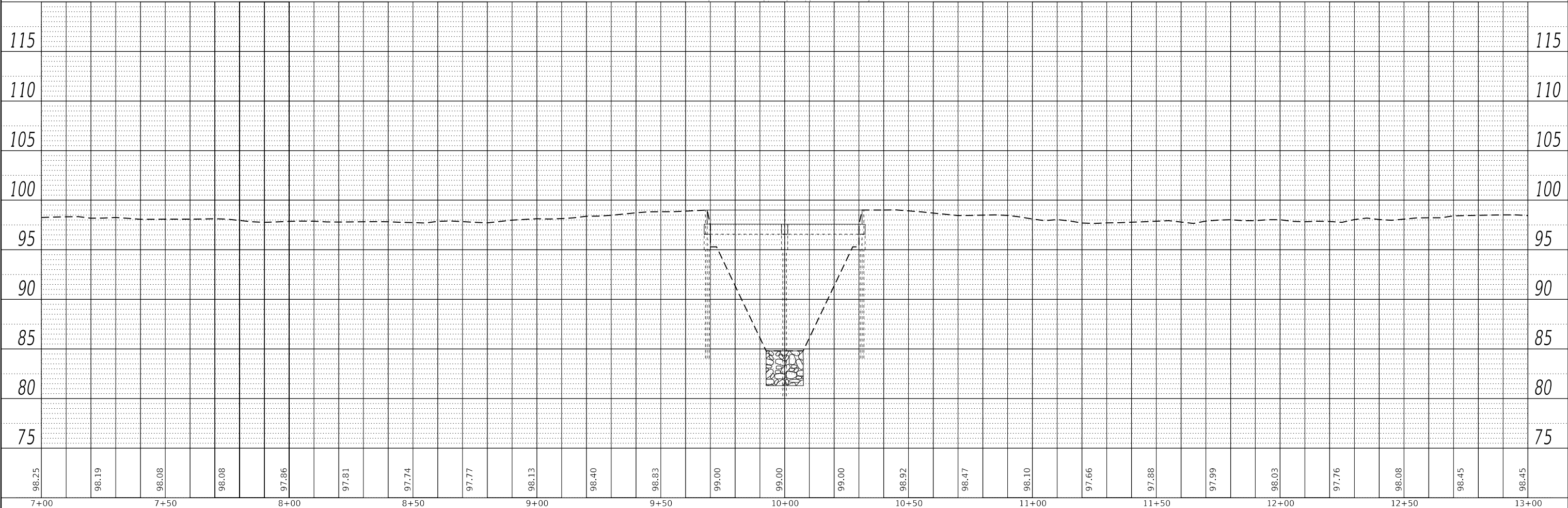
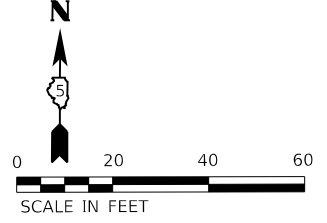
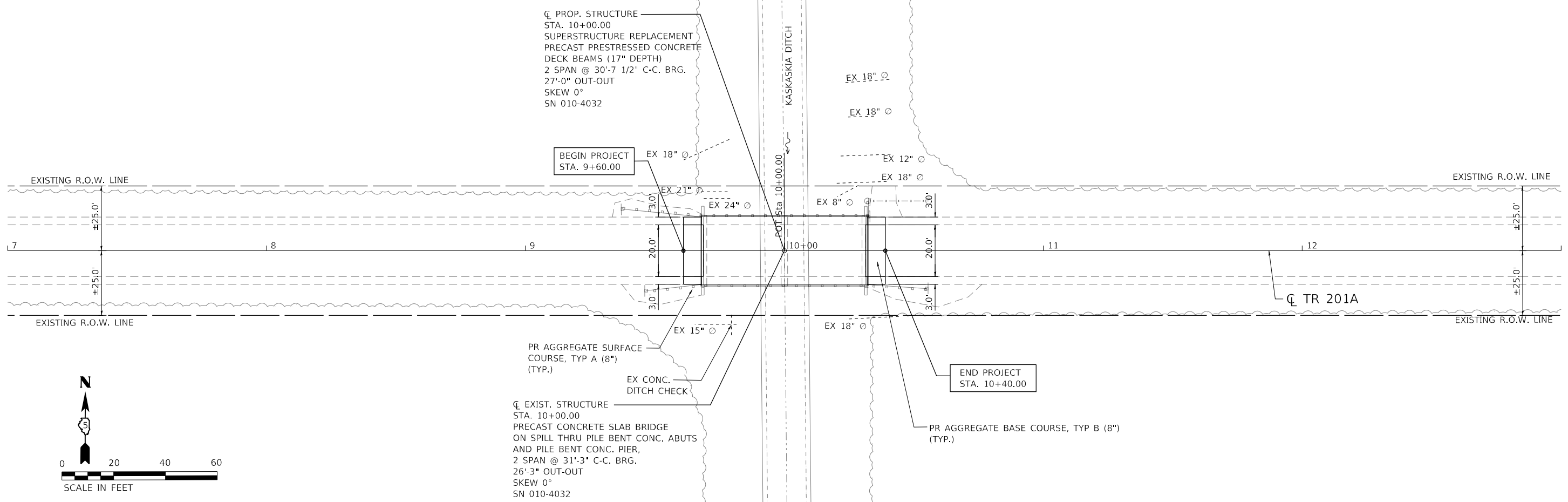
TYPICAL SECTIONS			
T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS
201A	22-03123-00-BR	CHAMPAIGN	20
CONTRACT NO. 91633			
SCALE: 1" = 10'	SHEET 1	OF 1 SHEETS	STA. TO STA.

ILLINOIS	FED. AID PROJECT
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PLAN	SURVIVED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVIVED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	NOTE BOOK NO.	
	STRUCTURE NOTATION	

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7+00	7+50	8+00	8+50	9+00	9+50	10+00	10+50	11+00	11+50	12+00	12+50	13+00												
98.25	98.19	98.08	98.08	97.86	97.81	97.74	97.77	98.13	98.40	98.83	99.00	99.00	99.00	98.92	98.47	98.10	97.66	97.88	97.99	98.03	97.76	98.08	98.45	98.45

design firm  
no. 184001036  
**whks**  
engineers + planners + land surveyors

USER NAME = bjohnson	DESIGNED - BJJ	REVISED -
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PLOT DATE = 2/23/2023	CHECKED - CWC	REVISED -
	DATE - 2/23/2023	REVISED -

**CHAMPAIGN COUNTY HIGHWAY DEPARTMENT**

**PLAN AND PROFILE**  
**TR 201A (KIRBY AVE.) OVER KASKASKIA DITCH**  
 SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
201A	22-03123-00-BR	CHAMPAIGN	20	8
CONTRACT NO. 91633				
ILLINOIS		FED. AID PROJECT		



Benchmark: BM1, Sta. 9+68.75, 14.00' Rt. Top of concrete west abutment wingwall. Elevation = 96.52

Existing Structure: SN 010-4032 was built in 1972 as Section CAB 1-72, Station 10+00. The structure is a two span precast channel beam bridge on a pile bent pier and pile bent abutments. The bridge is 65'-0" back-to-back of abutments with an out-to-out bridge width of 26'-3". The superstructure is to be removed and replaced. Road is to be closed and traffic detoured during construction.

Salvage: None

**INDEX OF SHEETS**

1. General Plan and Elevation
2. General Data
- 3.-4. 17" x 36" PPC Deck Beam Details
5. Superstructure Details
6. Steel Railing, Type S-1
7. Substructure Details
- 8.-12. Existing Plans (for information only)

**DESIGN SPECIFICATIONS (New Const.)**

2020 AASHTO LRFD Bridge Design Specifications  
9th Edition

**LOADING HL-93 (New Const.)**

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

**DESIGN STRESSES**

**FIELD UNITS (New Construction)**

f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)

**FIELD UNITS (Existing)**

fc = 1,400 psi  
fs = 20,000 psi (Reinforcement)

**PRECAST UNITS (New Construction)**

f'c = 6,000 psi  
f'ci = 5,000 psi  
f'pu = 270,000 psi (1/2" low lax strands)  
f'pbt = 201,960 psi (1/2" low lax strands)

**SEISMIC DATA (Exist. Const.)**

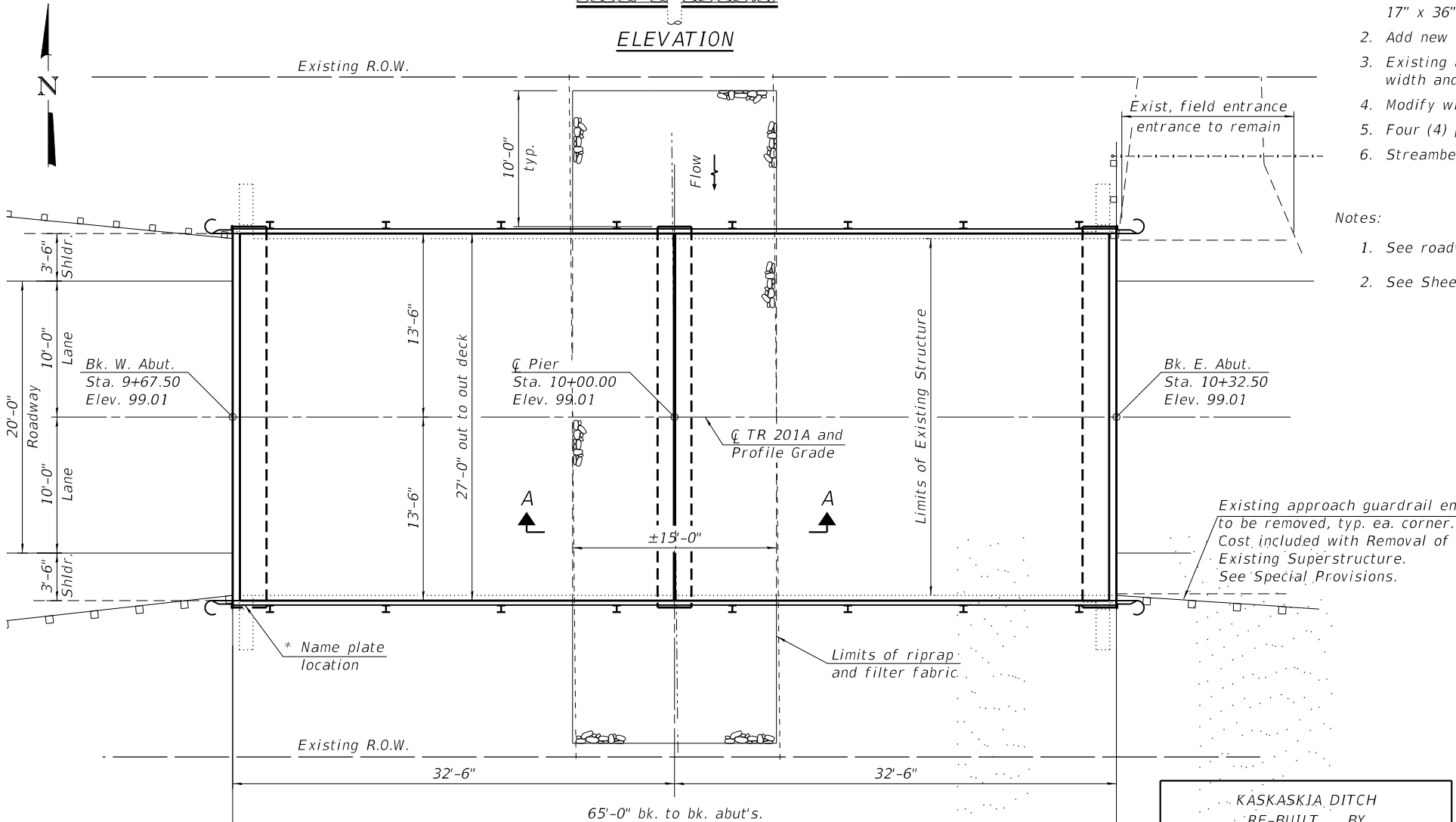
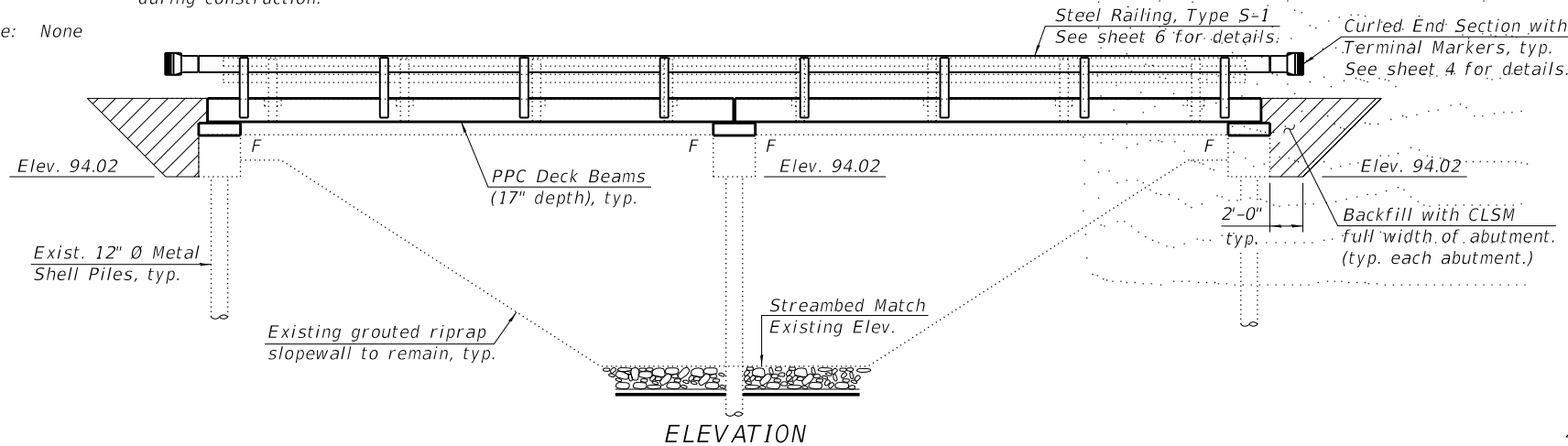
Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. (S<sub>D1</sub>) = 0.097g  
Design Spectral Acceleration at 1.0 sec. (S<sub>0s</sub>) = 0.18g  
Soil Site Class = C

**SCOPE OF WORK**

1. Remove and replace existing superstructure with nine (9) new 17" x 36" Precast Prestressed Concrete (PPC) Deck Beams.
2. Add new Type S-1 steel railing.
3. Existing abutment and pier caps to be raised with full width and length reinforced concrete cap extensions.
4. Modify wingwalls to accommodate new superstructure.
5. Four (4) piles at the pier will be cleaned and painted.
6. Streambed around the pier to be armored with stone riprap.

**Notes:**

1. See roadway plans for additional information not shown herein.
2. See Sheet 2 for Existing Profile Grade and Section A-A.



**DESIGN SCOUR ELEVATION TABLE**

Event / Limit State	Design Scour Elev. (ft.)			Item 113
	W. Abut.	Pier	E. Abut.	
Q100	-	83.2	-	8
Q200	-	84.4	-	
Design	94.0	83.2	94.0	
Check	94.0	84.4	94.0	

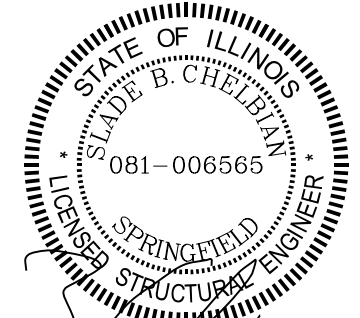
\* Place on back side of 12" rail.

KASKASKIA DITCH  
RE-BUILT BY  
CHAMPAIGN COUNTY  
SEC. 22-03123-00-BR  
TR 201A STA. 10+00  
STR. NO. 010-4032 LOADING HL93

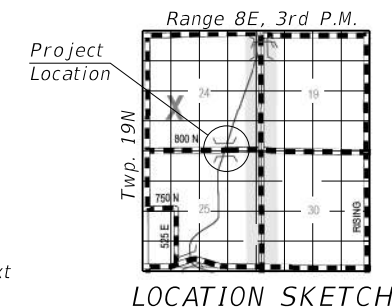
**NAME PLATE**

See Std. 515001

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.



*Slade B. Chelban*  
2/23/2023  
Expires: 11/30/2024



**GENERAL PLAN AND ELEVATION**  
**TR 201A OVER KASKASKIA DITCH**  
**SECTION 22-03123-00-BR**  
**CHAMPAIGN COUNTY**  
**STATION 10+00**  
**STRUCTURE NO. 010-4032**

FILE NAME: C:\SP\WHKS & COL\Jobs-Spring - Projects\Champaign County\9525 Champaign Co. TR201A over Kaskaskia Ditch\CADD\CAD\_Sheets\SN 010-4032.dgn



design: ifrm	USER NAME =	DESIGNED -	REVISED -
no. 184001036	susers	JLM	-
		CHECKED -	REVISED -
		SBC	-
	PLOT DATE =	DRAWN -	REVISED -
	3/7/2023	DLH	-
		CHECKED -	REVISED -
	PLOT DATE =	JLM/SBC	-
	11:42:57 AM		

**CHAMPAIGN COUNTY HIGHWAY DEPARTMENT**

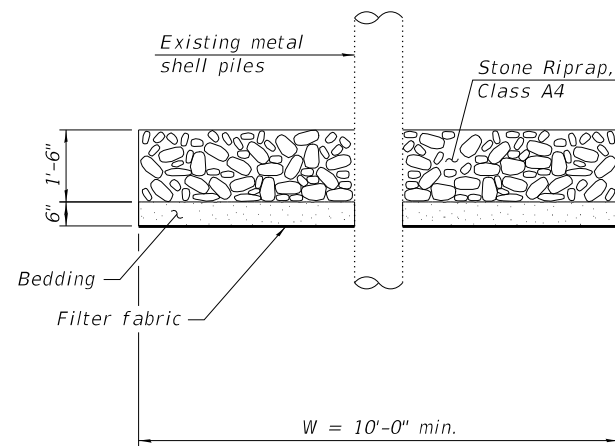
**STRUCTURE NO. 010-4032**

SHEET 1 OF 12 SHEETS

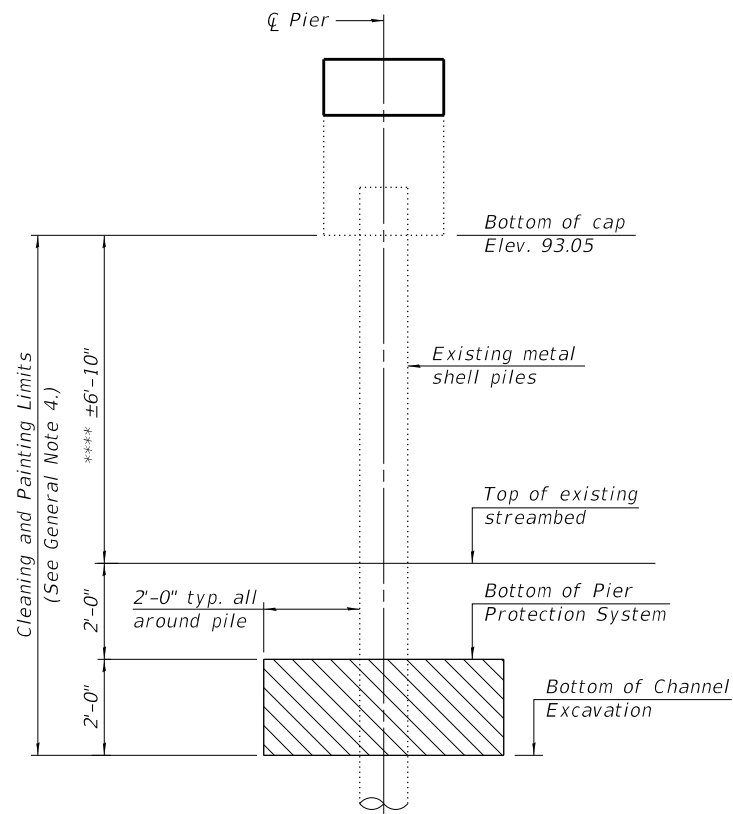
TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
201A	22-03123-00-BR	CHAMPAIGN	20	9
CONTRACT NO. 91633				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

- Reinforcement bars designated (E) shall be epoxy coated.
- 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 and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Elevations shown herein have been taken from the existing plans and are subject to field verification and adjustment during construction.
- Cleaning and painting of the existing metal shell piles shall be as specified in the special provision for Cleaning and Painting Existing Steel Structures except where otherwise noted herein. Piles shall be painted to the limits defined herein and according to the requirements of Paint System 2 - PS/EM/U or System 4 - PS/EM/AC. Surface preparation shall be accomplished by Commercial Grade Power Tool Cleaning according to the requirements of SSPC-SP15. The color of the final finish coat shall be Gray, Munsell No. 5B 7/1.  
The bridge owner has the option to omit the top finish coat. If this is desired, the intermediate aluminum epoxy mastic coat shall no longer be a spot coat but a full coat.
- Layout of the Pier Protection System may be varied in the field to suit ground conditions as directed by the Engineer. Minimum width of riprap shall be 10'-0". Thickness of riprap and bedding shall be as detailed herein.
- The Contractor shall be responsible for diverting the water flow from the construction area using a method meeting the approval of the Engineer. This shall not be paid for separately but shall be included in the cost of the Contract.



**SECTION A-A**  
(Showing Pier Protection System)



**CORROSION PROTECTION DETAIL**

(Required 4 - 12" Ø piles)

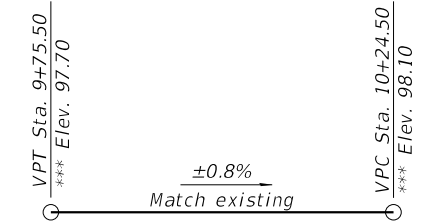
\*\*\*\* Estimated limits of exposed metal shell piles. Contractor to field verify prior to commencing work.

**LEGEND**

Limits of Channel Excavation

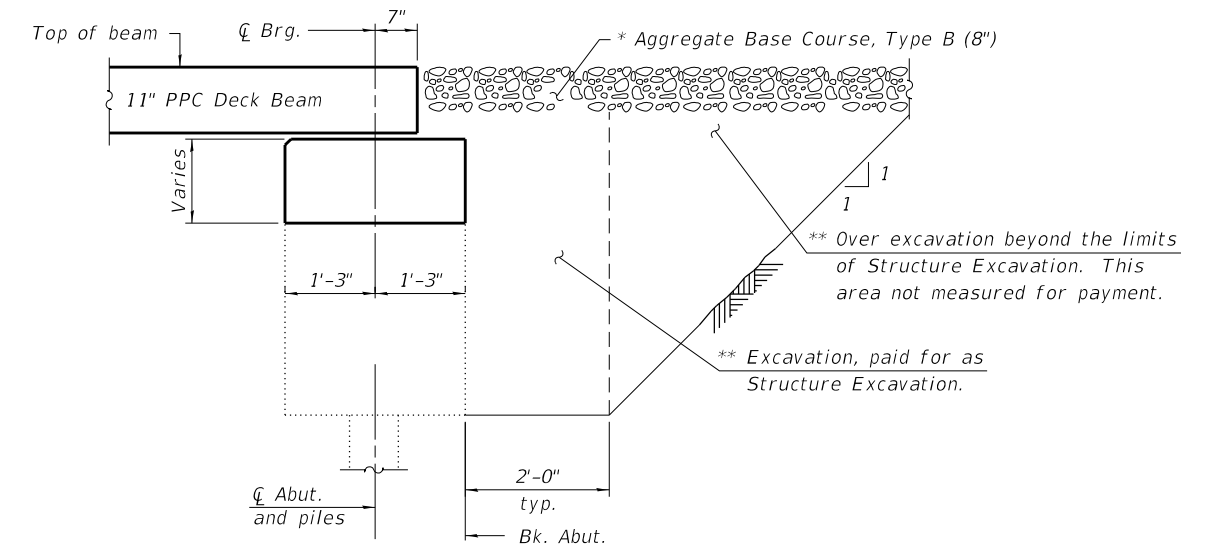
**TOTAL BILL OF MATERIAL**

Item	Unit	Super	Sub	Total
Channel Excavation	Cu. Yd.	-	8	8
Stone Riprap, Class A4	Sq. Yd.	-	53	53
Filter Fabric	Sq. Yd.	-	53	53
Removal of Existing Superstructures	Each	1	-	1
Concrete Removal	Cu. Yd.	-	0.2	0.2
Structure Excavation	Cu. Yd.	-	18.6	18.6
Concrete Structures	Cu. Yd.	-	8.6	8.6
Concrete Superstructure	Cu. Yd.	3.1	-	3.1
Precast Prestressed Concrete Deck Beams (11" Depth)	Sq. Ft.	1,238	-	1,238
Reinforcement Bars, Epoxy Coated	Pound	150	910	1,060
Steel Railing, Type T1	Foot	96	-	96
Name Plates	Each	1	-	1
Controlled Low-Strength Material	Cu. Yd.	-	39.6	39.6
Terminal Marker - Direct Applied	Each	4	-	4
Cleaning and Painting Steel Bridge No. 1	L. Sum	-	1	1
Containment and Disposal of Non-Lead Paint Cleaning Residues No. 1	L. Sum	-	1	1



**PROPOSED PROFILE GRADE**  
(Along C TR 37B)

\*\*\* Elevations were taken from existing plans and adjusted for a 4" wearing surface thickness measured in the field by WHKS & Co. in March 2022. (See General Note 3)



**SECTION AT ABUTMENT**

\* See Roadway Plans

\*\* Backfill with Controlled Low-Strength Material (CLSM) (Mix 2) full width of abutment cap only, typ. each abutment.

FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Champaign County\9494 Champaign Co. TR37B over Upper Salt.CX\CADD\CAD\_Sheets\SN\_010-4023.dgn



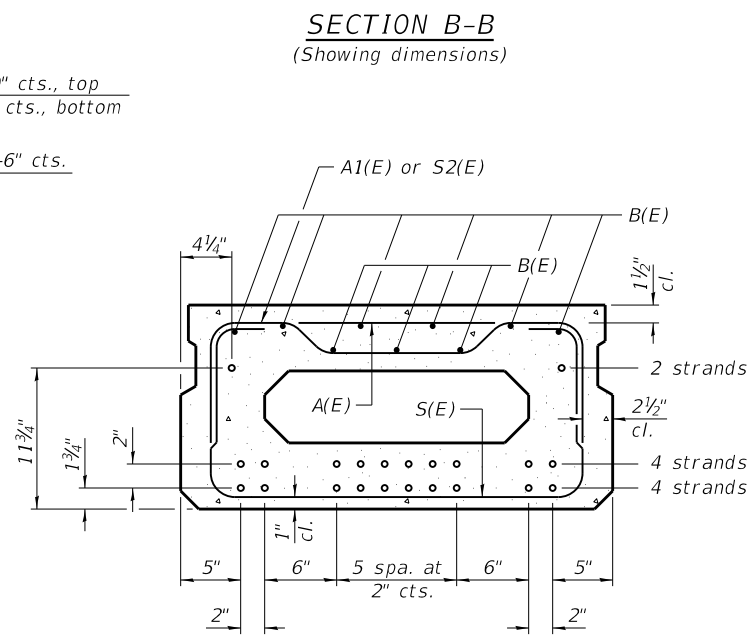
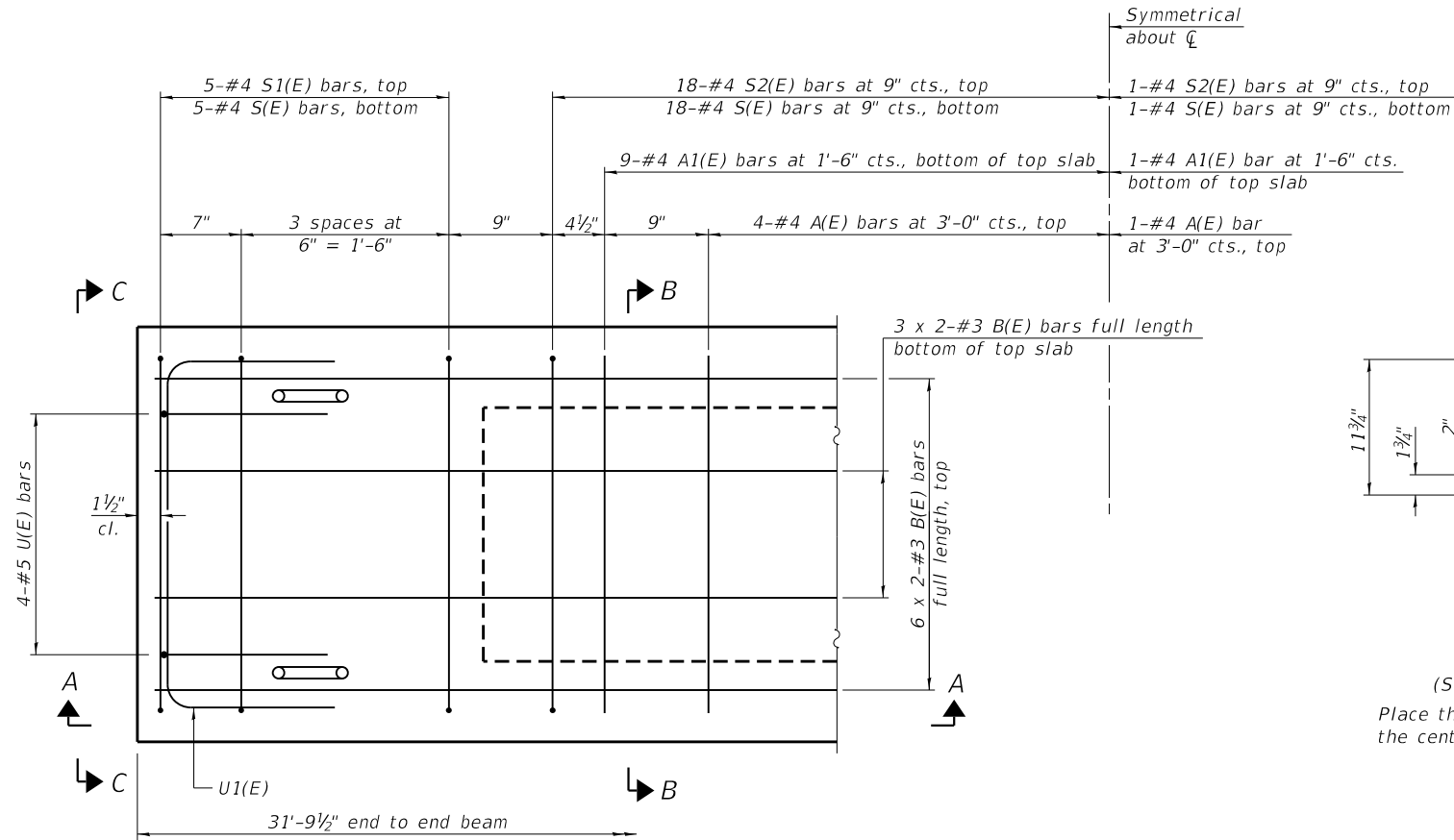
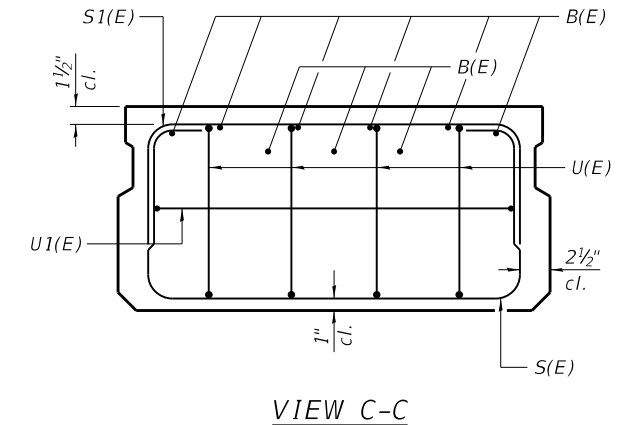
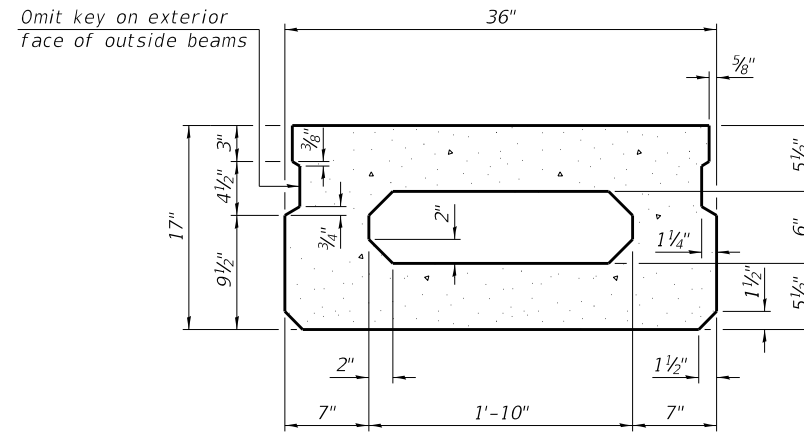
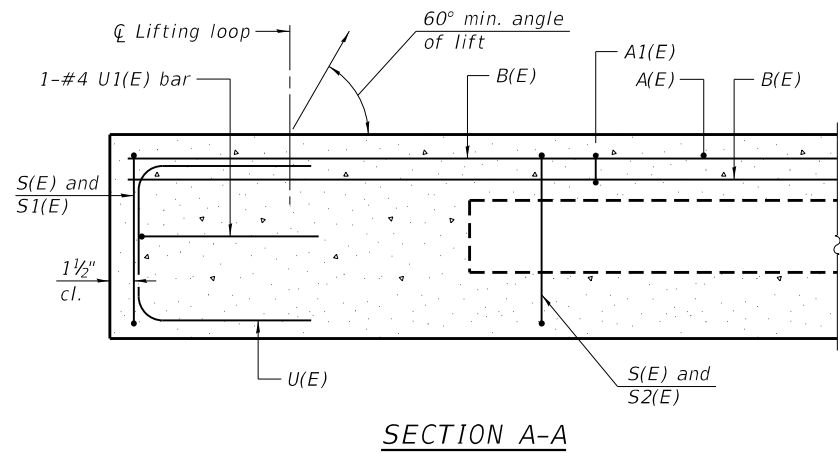
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	PLOT DATE = 4/5/2023	DRAWN - DLH	REVISED -
	PLOT DATE = 1:42:41 PM	CHECKED - GEM/SBC	REVISED -

**CHAMPAIGN COUNTY HIGHWAY DEPARTMENT**

**GENERAL DATA**  
**STRUCTURE NO. 010-4023**

SHEET 2 OF 13 SHEETS

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37B	22-14120-00-BR	CHAMPAIGN	21	10
CONTRACT NO. 91634			ILLINOIS FED. AID PROJECT	



**BAR LIST**  
**ONE BEAM ONLY**  
(For information only)

Bar	No.	Size	Length	Shape
A(E)	9	#4	2'-7"	—
A1(E)	19	#4	2'-10"	—
B(E)	18	#3	16'-8"	—
S(E)	47	#4	5'-9"	⌋
S1(E)	10	#4	4'-3"	⌋
S2(E)	37	#4	4'-6"	⌋
U(E)	8	#5	3'-8"	⌋
U1(E)	2	#4	5'-0"	⌋

**PLAN VIEW**

Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

**MINIMUM BAR LAP**  
#3 bar = 1'-6"

- Notes:
- Bars indicated thus 3 x 2-#4 etc. indicate 3 lines of bars with 2 lengths per line.
  - See sheet 4 for additional details and Bill of Material.

FILE NAME: C:\SP\WHKS & COL\Jobs-Spring - Projects\Champaign County\9525 Champaign Co. TR201A over Kaskaskia Ditch\CADD\CAD\_Sheets\SN 010-4032.dgn



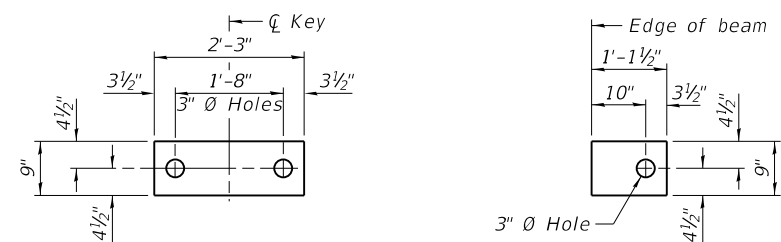
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	PLOT DATE = 1:50:30 PM	CHECKED - JLM/SBC	REVISED -

**CHAMPAIGN COUNTY HIGHWAY DEPARTMENT**

**17" x 36" PPC DECK BEAM**  
**STRUCTURE NO. 010-4032**

SHEET 3 OF 12 SHEETS

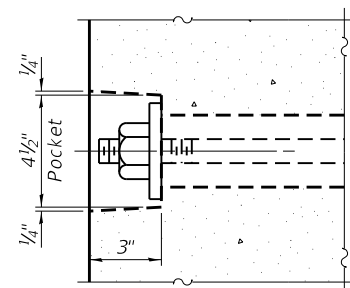
TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
201A	22-03123-00-BR	CHAMPAIGN	20	11
CONTRACT NO. 91633				
ILLINOIS		FED. AID PROJECT		



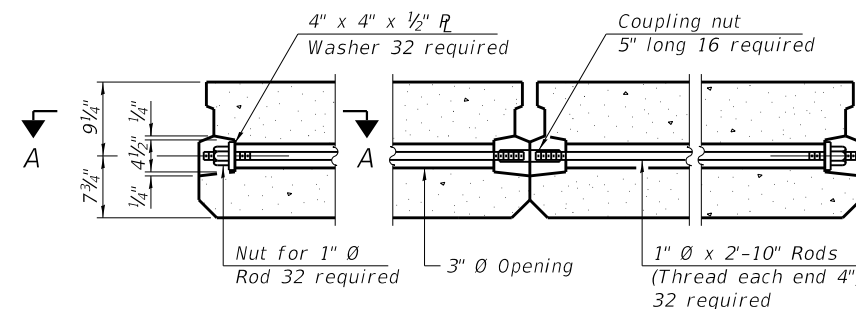
**FABRIC BEARING PAD** (Interior) **FABRIC BEARING PAD** (Exterior)

**FIXED**

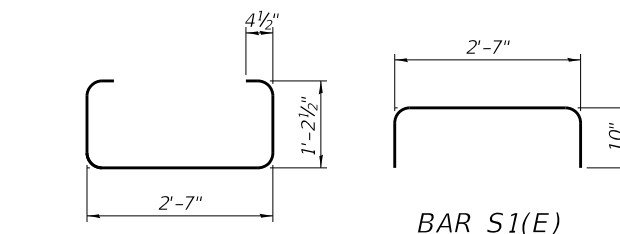
All bearing pads shall be 1" thick.



**SECTION A-A**

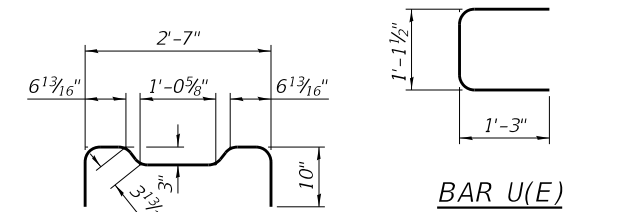


**TYPICAL TRANSVERSE TIE ASSEMBLY**



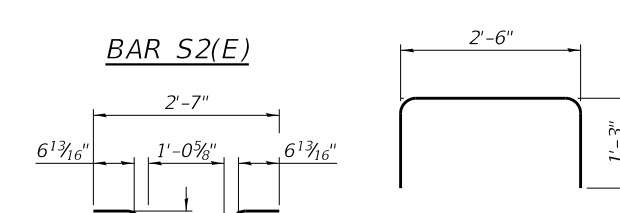
**BAR S(E)**

**BAR S1(E)**



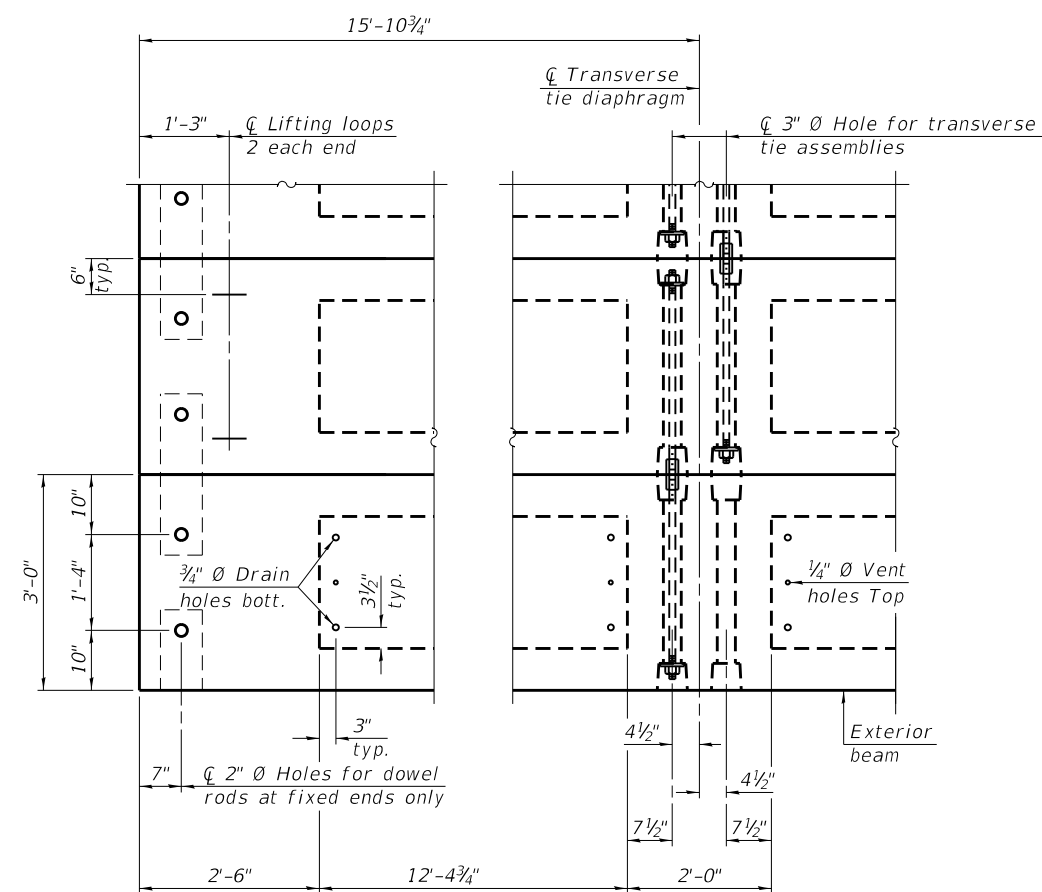
**BAR S2(E)**

**BAR U(E)**



**BAR A1(E)**

**BAR U1(E)**

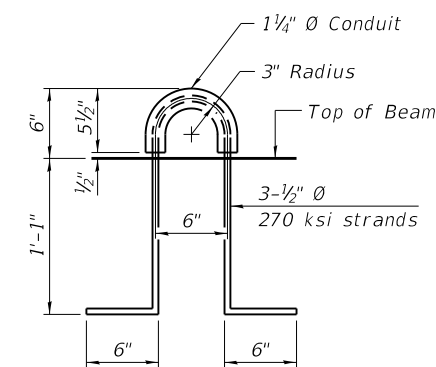


**PLAN VIEW**

Connect beams in pairs with the transverse tie configuration shown.

**NOTES**

1. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
2. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
3. Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
4. A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
5. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
6. Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
7. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



**LIFTING LOOP DETAIL**

**BILL OF MATERIAL**

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1,717
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FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Champaign County\9525 Champaign Co, TR201A over Kaskaskia Ditch\CADD\CAD\_Sheets\SN 010-4032.dgn



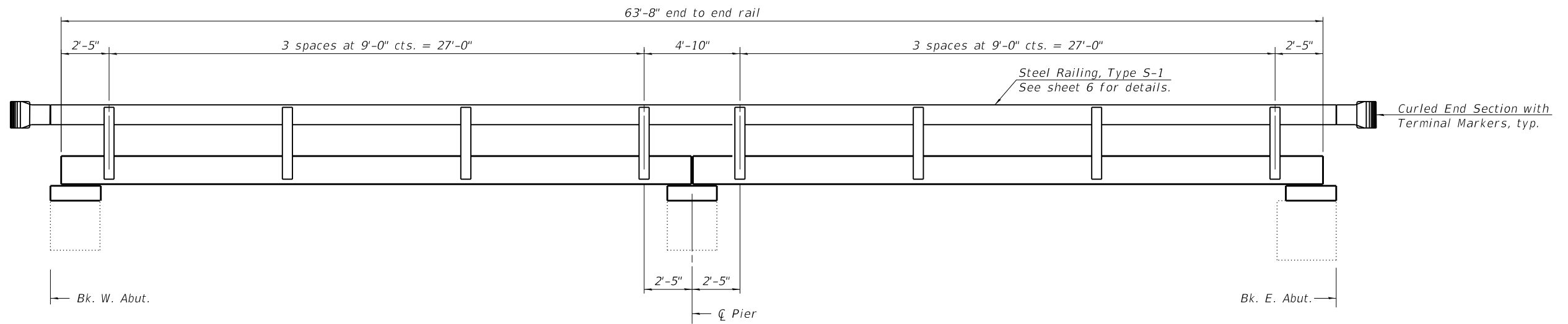
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**CHAMPAIGN COUNTY HIGHWAY DEPARTMENT**

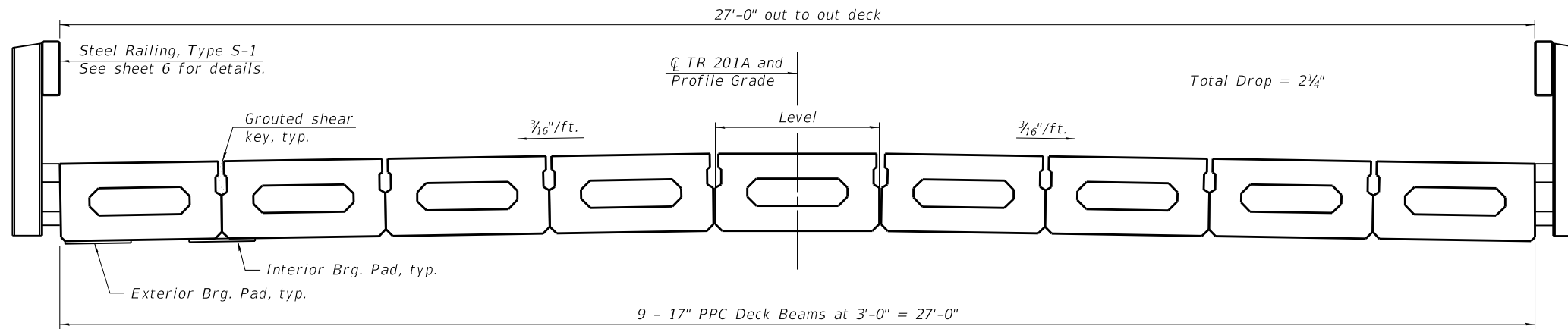
**17" x 36" PPC DECK BEAM DETAILS  
STRUCTURE NO. 010-4032**

SHEET 4 OF 12 SHEETS

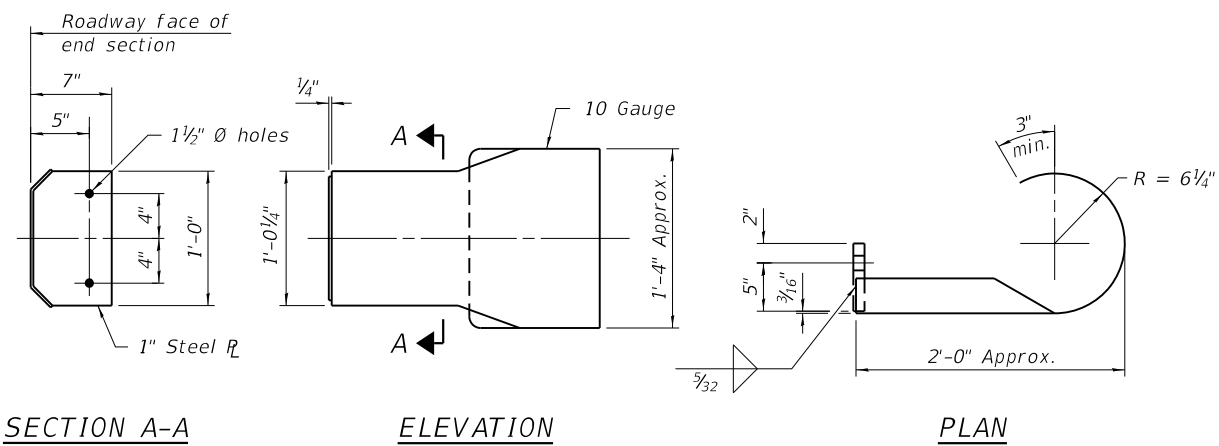
TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
201A	22-03123-00-BR	CHAMPAIGN	20	12
CONTRACT NO. 91633				
ILLINOIS FED. AID PROJECT				



**RAIL POST SPACING**  
(Looking at south face, north face similar)



**CROSS SECTION**



**DETAILS OF CURLED END SECTION**

FILE NAME: C:\SP\WHKS & COL\Jobs-Spring - Projects\Champaign County\9525 Champaign Co. TR201A over Kaskaskia Ditch\CADD\CAD\_Sheets\SN 010-4032.dgn

design firm  
no. 184001036



USER NAME = dheberling	DESIGNED - JLM	REVISED -
	CHECKED - SBC	REVISED -
PLOT DATE = 2/23/2023	DRAWN - DLH	REVISED -
PLOT DATE = 1:50:31 PM	CHECKED - JLM/SBC	REVISED -

**CHAMPAIGN COUNTY HIGHWAY DEPARTMENT**

**SUPERSTRUCTURE DETAILS  
STRUCTURE NO. 010-4032**

SHEET 5 OF 12 SHEETS

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
201A	22-03123-00-BR	CHAMPAIGN	20	13
CONTRACT NO. 91633				
ILLINOIS		FED. AID PROJECT		

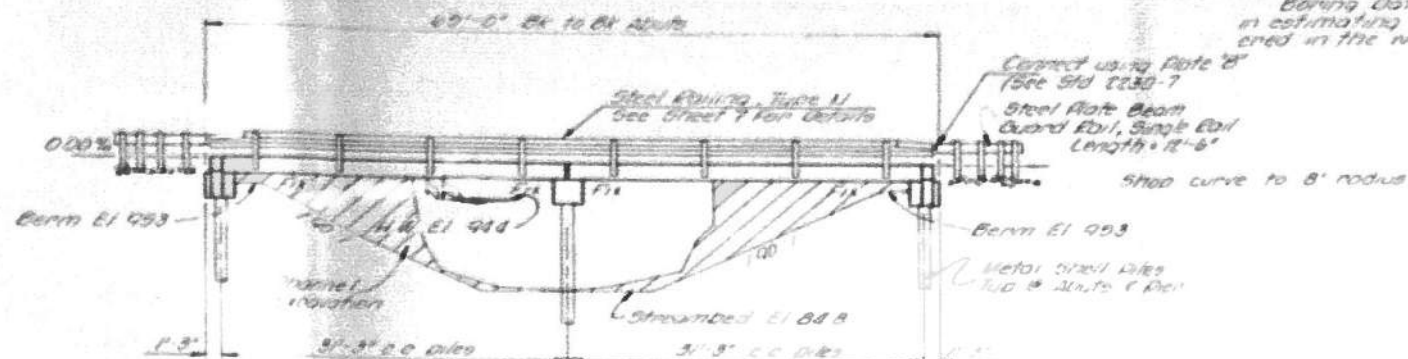




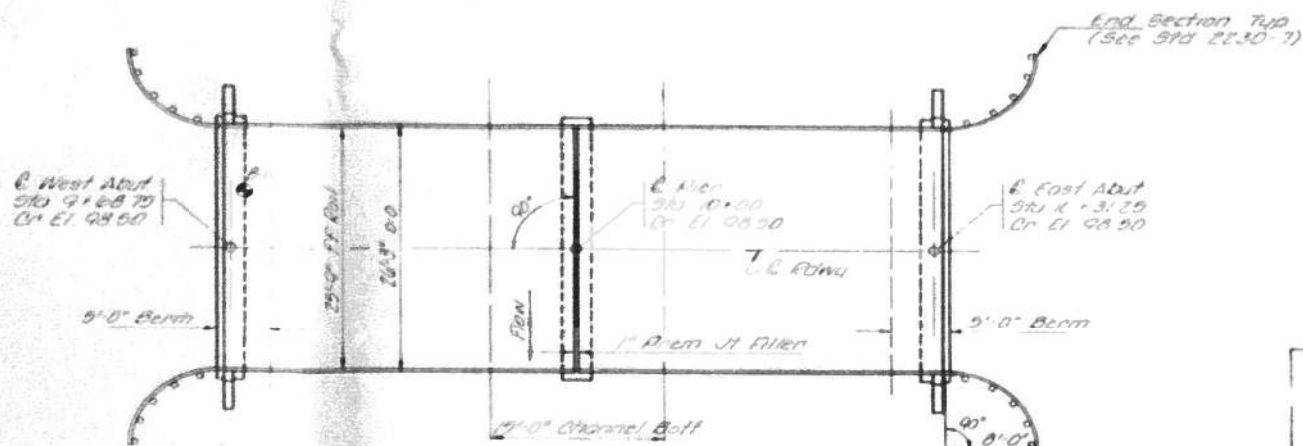
Checked 1/2" in Top of E/W Abutment  
 11/19 5/8 91.81 Elev 100.00 (Assumed)  
 along Structure - One 200# I-Beam with  
 4x4" floor on steel concrete and  
 stone abutments and stone wingwalls.  
 The contractor shall remove before  
 constructing new Drivays.

**GENERAL NOTES**

All reinforcement bars shall be lapped 24 diameters  
 unless otherwise shown.  
 Class X Concrete shall be used in the pier cap and  
 the abutments.  
 Boring Data is shown only as a guide to bidders  
 in estimating soil conditions which may be encountered  
 in the work.



**ELEVATION**



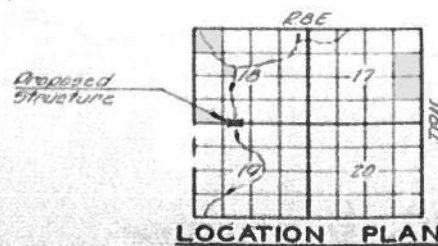
**PLAN**

STATION 10+00  
 KASKASKIA DITCH  
 SEC CAB 1-72 BUILT 197-  
 CHAMPAIGN ROAD DISTRICT  
 CHAMPAIGN COUNTY  
 LOADING 11515

**LETTERING FOR NAME PLATE**  
 See Std 2113-1

**WATERWAY DATA**

Drainage Area	11,390 Acres
Required Opening (10 Yrs)	320 Sq Ft
Present Opening	210 Sq Ft
Proposed Opening	310 Sq Ft
Computed Discharge	1,475 CFS



**DESIGN STRESSES**

$f_c = 1,800$  psi (Precast Slab)  
 $f_c = 1,400$  psi (Class X Concrete)  
 $f_s = 20,000$  psi (Reinforcement)  
 $n = 8$  (Precast Slab)  
 $n = 10$  (Class X Concrete)  
 Loading 115 19-44  
 Prod. Steel  
 Illinois Structural No 2494



Station	U	Qu	W	Soil Description
91+85.75	255			Mixed black and dark gray silty clays, fill
91+87	227			Mottled brown with gray silty clay, very moist, firm
91+88	31	118		Brown clay loam, trace of small gravel, moist, very tough (Till)
91+89	36	131		Gray clay loam, trace of small gravel, moist, very tough (Till)
91+90	31	123		Gray clay loam, trace of small gravel, moist, hard (Till)
91+90	21	130		Gray clay loam, trace of small gravel, moist, hard (Till)
91+90	23	123		Gray clay loam, trace of small gravel, moist, hard (Till)
91+90	21	130		Gray clay loam, trace of small gravel, moist, hard (Till)
91+90	23	123		Gray clay loam, trace of small gravel, moist, hard (Till)

\* 64 blows - 6" penetration

**BORING DATA**

U - Standard Penetration Test - Blows per foot  
 Qu - Unconfined Compressive Strength - Tons/50 Ft  
 W - Water content - Percentage of oven dry weight

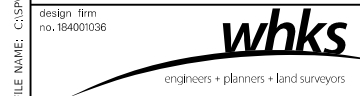
**TOTAL BILL OF MATERIAL**

Item	UNIT	SUPER	SUB	TOTAL
Precast Slab	50 Yd	1,676		1,676
Class X Concrete	CU Yd		217	217
Reinforcing Bars	Lb		2510	2510
Steel Plate Beam	Lin Ft	120		120
Metal Steel Piles	Lin Ft		320	320
Name Plates	Each			1
Removal of Existing Structures	Each			1
Steel Plate Beam Guard Rail	Lin Ft	90		90

**GENERAL PLAN & ELEVATION**  
 SECTION CAB 1-72  
 CHAMPAIGN ROAD DISTRICT  
 CHAMPAIGN COUNTY  
 STATION 10+00

**COLLINS AND RICE**  
 CONSULTING ENGINEERS

DESIGNED BY FS  
 CHECKED BY JDR  
 DATE 4-29-72



USER NAME = dheberling	DESIGNED - JLM	REVISED -
	CHECKED - SBC	REVISED -
PLOT DATE = 2/23/2023	DRAWN - DLH	REVISED -
PLOT DATE = 1:50:32 PM	CHECKED - JLM	REVISED -

CHAMPAIGN COUNTY HIGHWAY DEPARTMENT

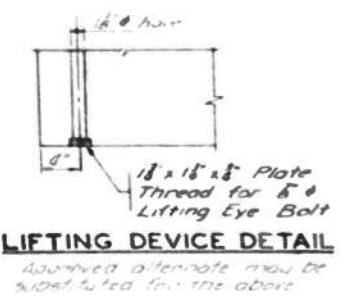
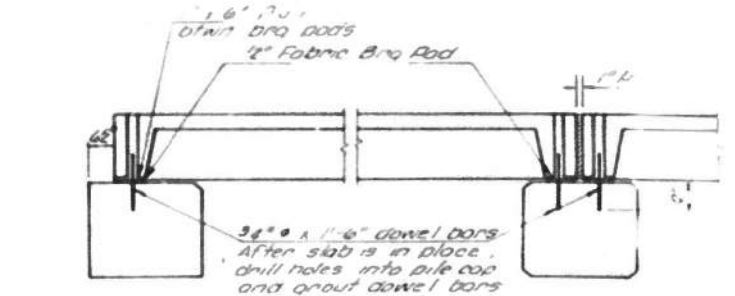
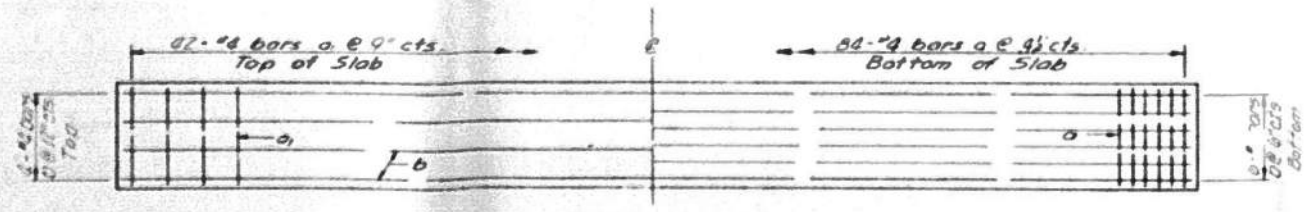
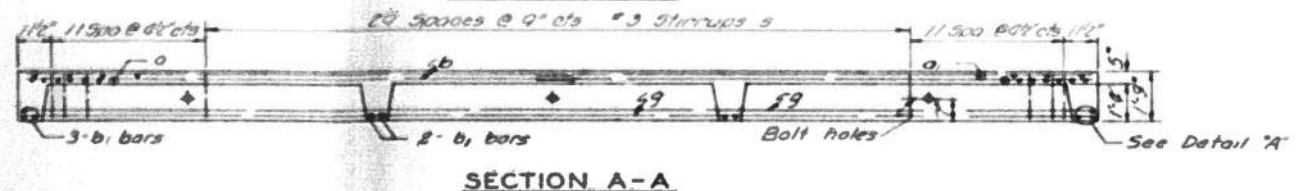
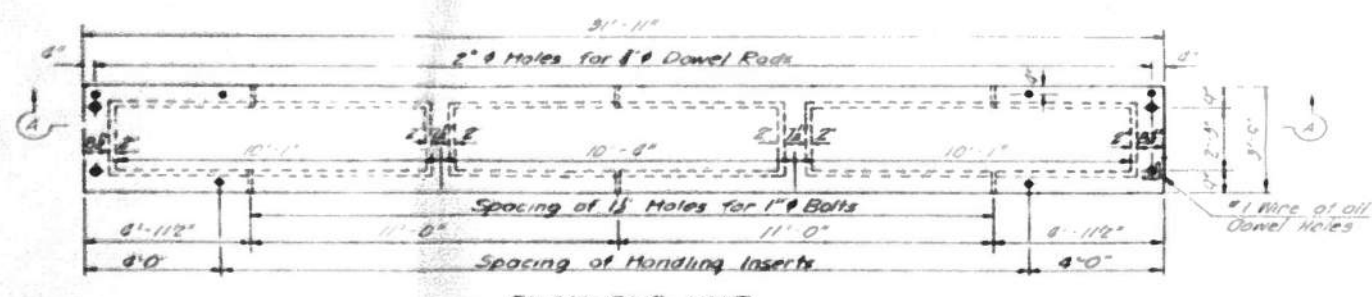
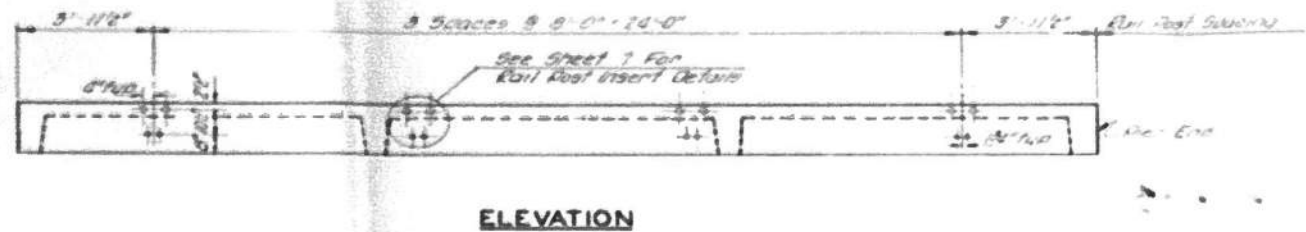
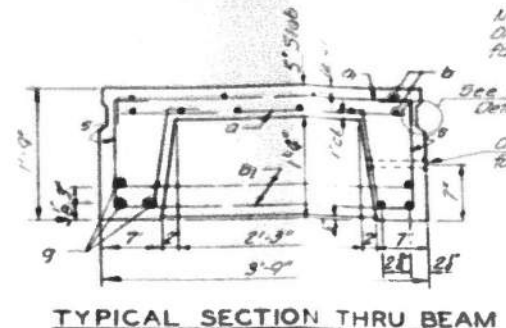
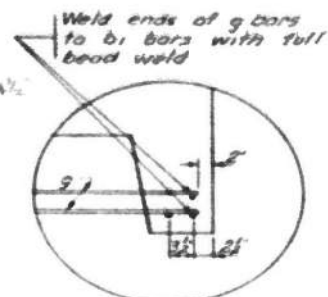
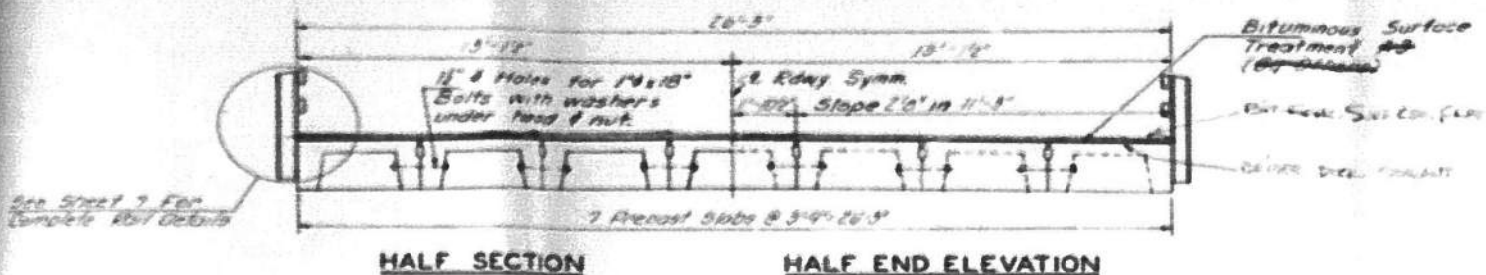
EXISTING PLANS - FOR INFORMATION ONLY  
 STRUCTURE NO. 010-4032

SHEET 8 OF 12 SHEETS

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
201A	22-03123-00-BR	CHAMPAIGN	20	16
CONTRACT NO. 91633			ILLINOIS FED. AID PROJECT	



DATE	BY	CHECKED	SCALE	NO.
4-29-72	JDF	JLM	FE	6
PROJECT: CHAMPAIGN				

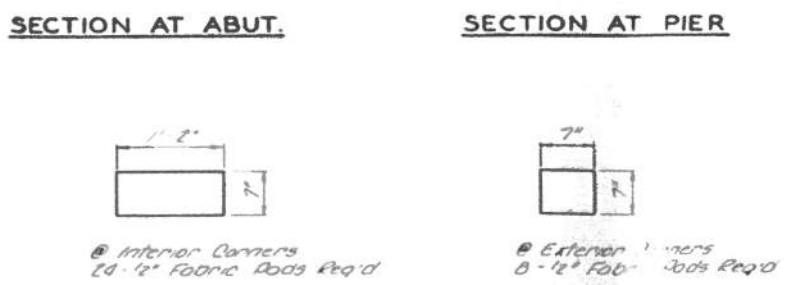


**ESTIMATED QUANTITIES**

	Concrete	Rein. Bars
	Cu. Yd.	Lb.
One interior unit	0.3	1,683

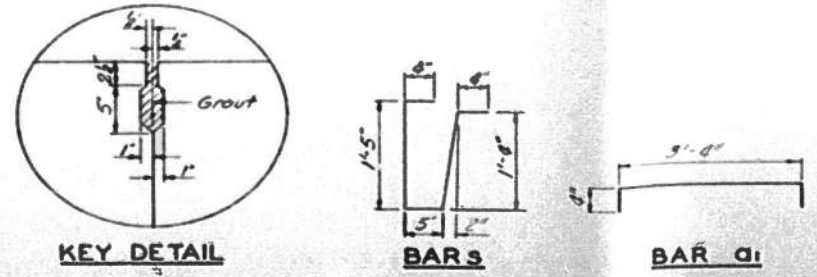
For information of suppliers of Precast Slab Units only

**BILL OF MATERIAL - SUPERSTRUCTURE**  
Precast Concrete Bridge Slab 29 91,676



**BILL OF REINFORCEMENT BARS**

Bar	Size	Length	Quantity
101	#4	10	31'-6"
102	#4	10	31'-6"
103	#4	6	31'-6"
104	#3	102	3'-10"



**SUPERSTRUCTURE**  
SECTION CAB 1-72  
CHAMPAIGN ROAD DISTRICT  
CHAMPAIGN COUNTY  
STATION 10+00

**COLLINS AND RICE**  
CONSULTING ENGINEERS

DESIGNED: F.S. CHECKED: J.B.  
DRAWN: J.D.F. DATE: 4-29-72

Note: Tack welding of stirrups to bottom longitudinal reinforcement bars will not be permitted except as otherwise authorized in writing by the Engineer.

FILE NAME: C:\SP\HWKS & COL\Jobs-Spring - Projects\Champaign County\9525 Champaign Co. TR201A over Kaskaskia District\CADD\CAD\_Sheets\SN 010-4032.dgn



USER NAME = dheberling	DESIGNED - JLM	REVISED -
PLOT DATE = 2/23/2023	CHECKED - SBC	REVISED -
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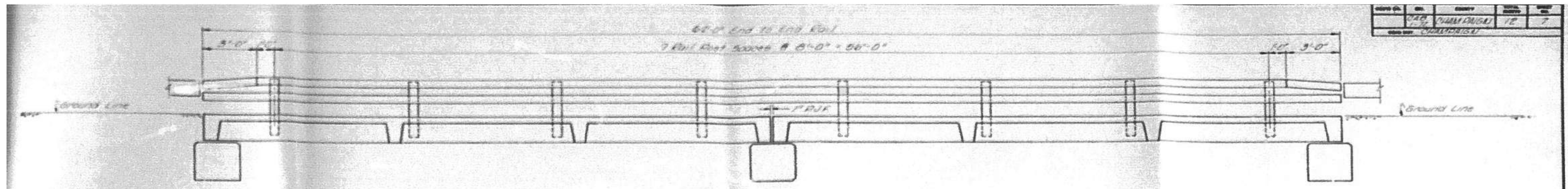
CHAMPAIGN COUNTY HIGHWAY DEPARTMENT

EXISTING PLANS - FOR INFORMATION ONLY  
STRUCTURE NO. 010-4032

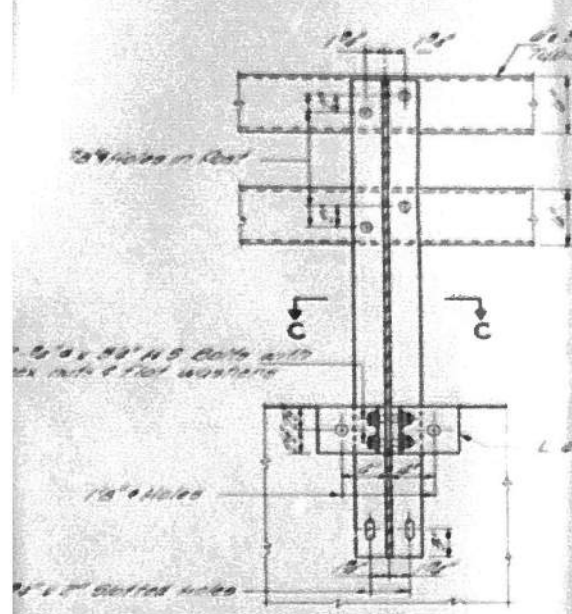
SHEET 9 OF 12 SHEETS

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
201A	22-03123-00-BR	CHAMPAIGN	20	17
			CONTRACT NO. 91633	
			ILLINOIS FED. AID PROJECT	

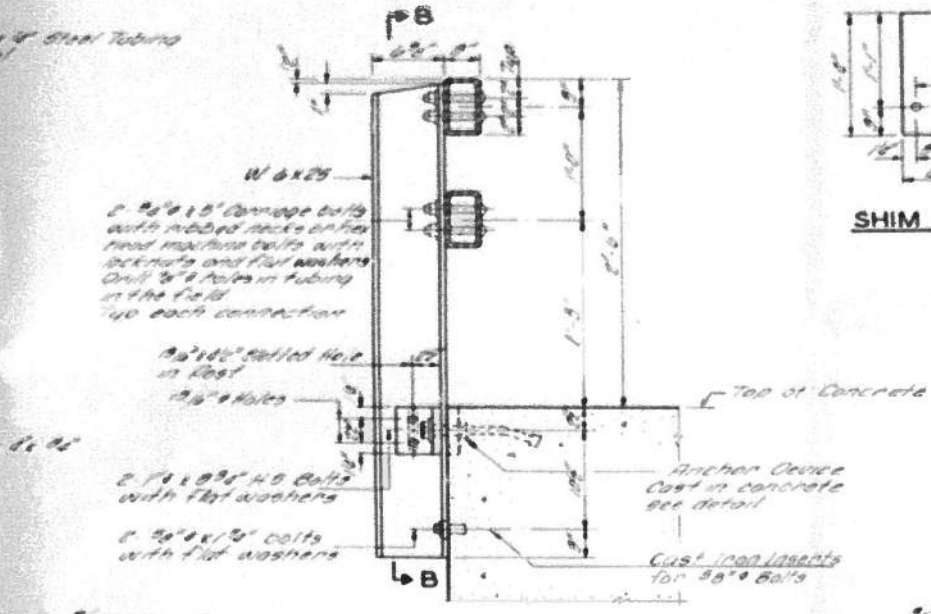
DATE	BY	CHKD	APP'D	REV
01/27/2023	JLM	SBC		1
				2
				3



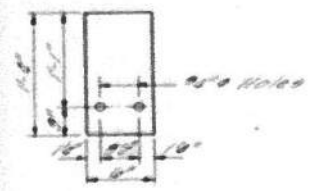
**ELEVATION**  
Showing inside face of rail



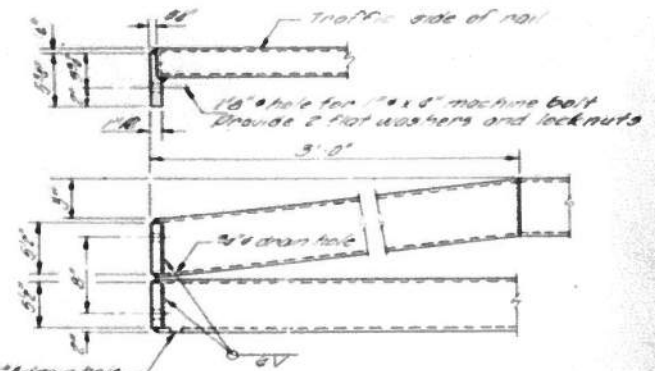
**SECTION B-B**



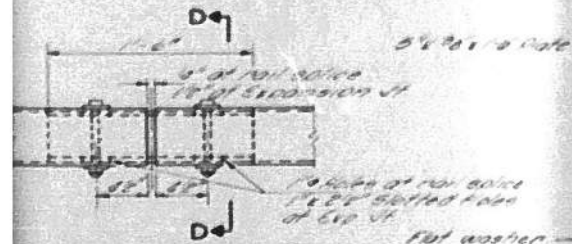
**SECTION A-A**



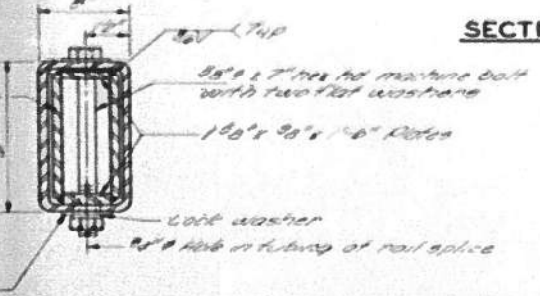
**SHIM DETAIL**



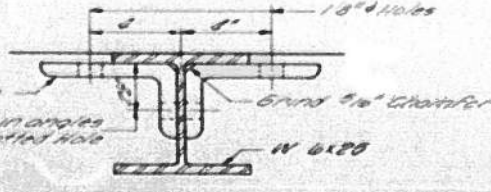
**DETAIL A**



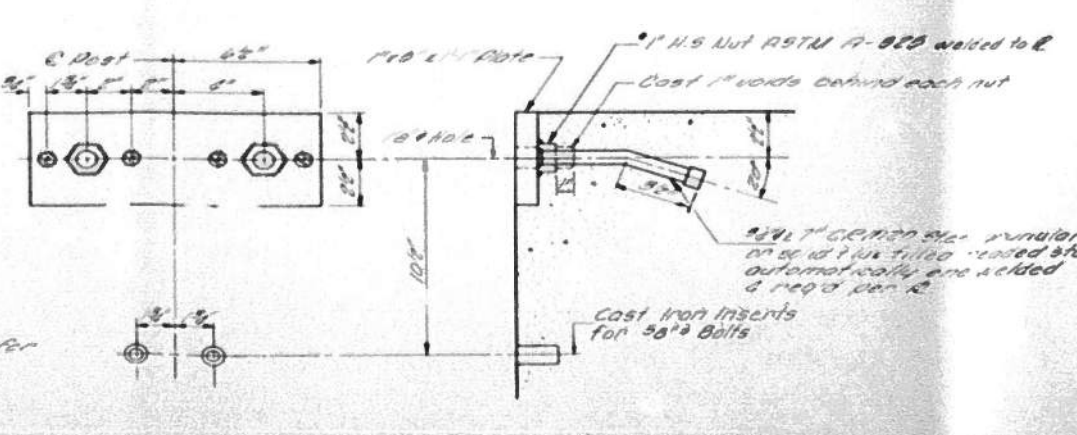
**RAIL SPLICE**



**SECTION D-D**



**SECTION C-C**



**ANCHOR DEVICE**

**NOTES**

Yellow structural steel tubing shall conform to the requirements of ASTM designation A-501 "Hot Formed Welded and Seamless Carbon Steel Structural Tubing".

All other steel shapes and plates shall conform to the requirements of ASTM designation A-36 except posts shall conform to ASTM A-441.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to ASTM designation A-325.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with ASTM designation A-153.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with ASTM designation A-153 and A-385. Galvanized rail shall not be painted.

Railing shall be in accordance with Section 508 of the Standards Specifications except as noted, and shall be paid for at the contract unit price per lineal foot for STEEL RAILING, TYPE N.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place 1/2" fabric covering pad between the post and concrete.

The 1/2" high strength bolts used to connect the 6" x 6" angles to the post shall be tightened in accordance with Article 70.11 of Standard Specifications. The 1/2" high strength bolts connecting the angles to the concrete beam shall be tightened to a snug fit and given an additional 1/4 turn.

For multi-span bridges, sufficient 4" x 6" x 1/2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost incidental to steel railing.

Provide galvanized washers as required to make railing post vertical. Cost incidental to steel railing.

**BILL OF MATERIAL**

ITEM	QUANTITY
Steel Railing, Type N	120

**STEEL RAILING, TYPE N**  
SECTION CAB 1-72  
CHAMPAIGN ROAD DISTRICT  
CHAMPAIGN COUNTY  
STATION 10+00

**COLLINS AND RICE**  
CONSULTING ENGINEERS

DESIGNED: F.S. CHECKED: M.E.  
DRAWN: J.D.F. DATE: 6-29-22

FILE NAME: C:\SP\WHKS & COLLABS\Spring - Projects\Champaign County\9525 Champaign Co. TR201A over Kaskaska Ditch\CADD\CAD\_Sheets\SN 010-4032.dgn



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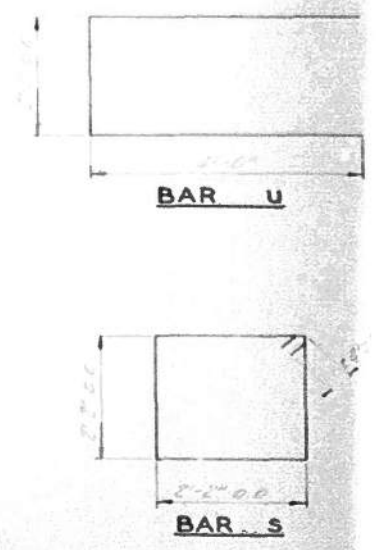
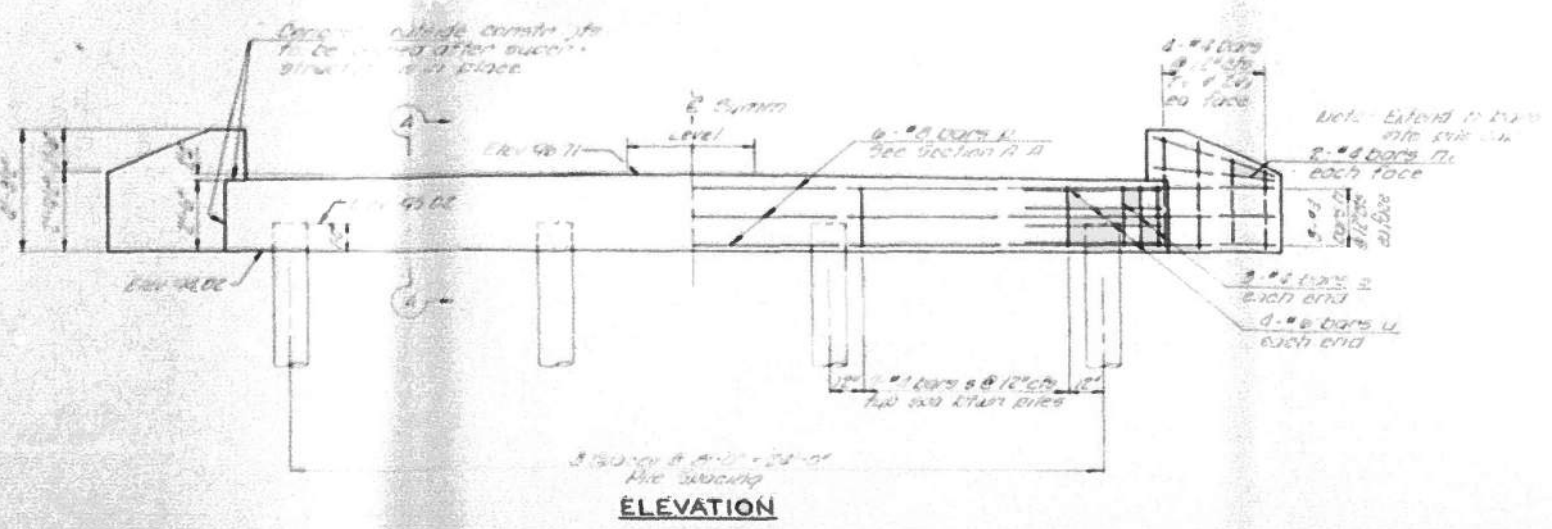
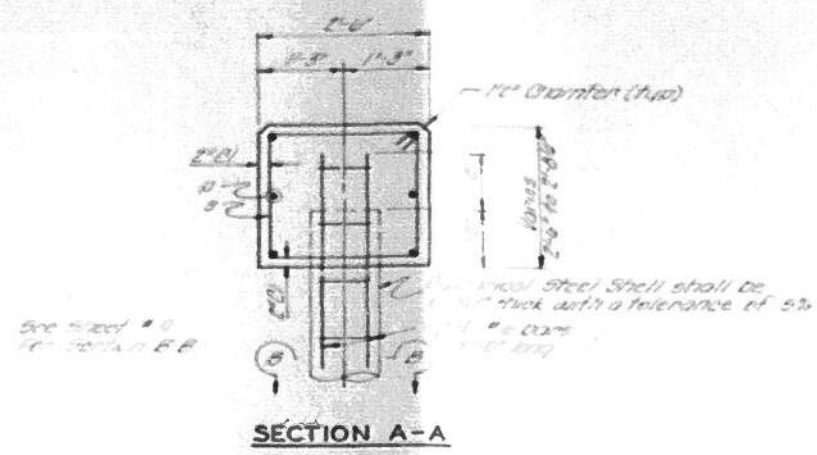
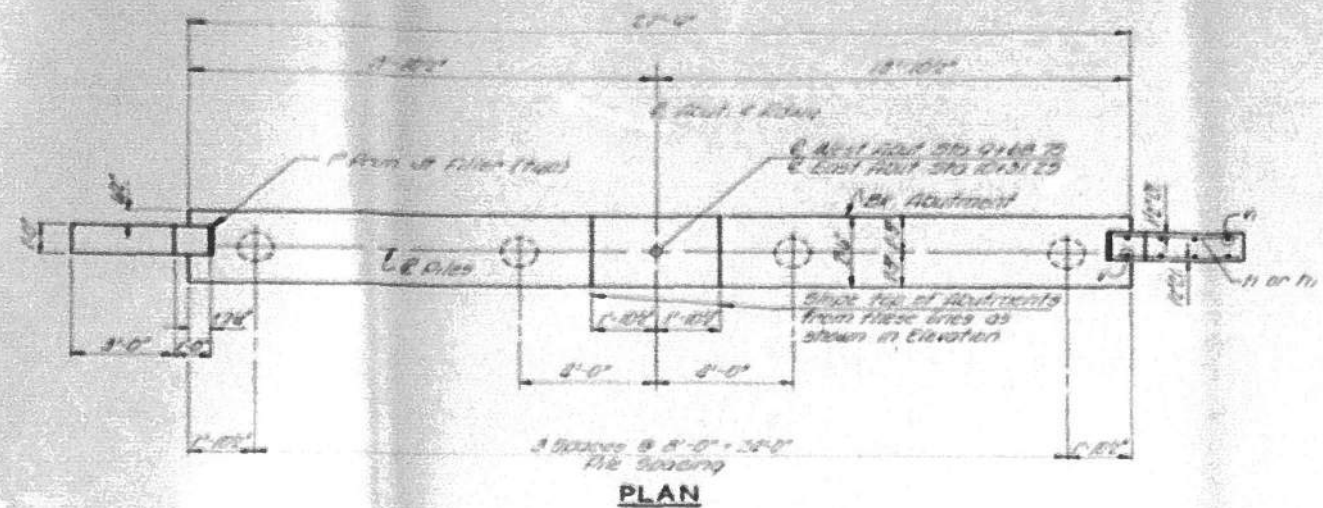
CHAMPAIGN COUNTY HIGHWAY DEPARTMENT

EXISTING PLANS - FOR INFORMATION ONLY  
STRUCTURE NO. 010-4032

SHEET 10 OF 12 SHEETS

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
201A	22-03123-00-BR	CHAMPAIGN	20	18
			CONTRACT NO. 91633	
		ILLINOIS FED. AID PROJECT		

DATE	BY	GROUP	SCALE	NO.
1/22	JM	CHAMPAIGN	1/2"	8
PROJECT: CHAMPAIGN				



**PILE DATA**

Type	Metal Shell, 12" dia. - 18' long
No. Piles	3
ES Term. Elev.	100.00
Est. Length	20 feet / pile

**BILL OF MATERIAL - 2 ABUTS.**

PILE	NO.	SIZE	UNIT	QTY
B	12	#8	27'-0"	
V	10	#8	3'-0"	
W	4	#8	2'-0"	
X	28	#8	5'-0"	
Y	14	#8	3'-0"	
Z	16	#8	2'-0"	
A	28	#8	4'-0"	
Class 1 Concrete				15.1
Reinforcement Bars				1650
Metal Pile Shells, 12"				200

**ABUTMENTS**  
SECTION CAB 1-72  
CHAMPAIGN ROAD DISTRICT  
CHAMPAIGN COUNTY  
STATION 10+00  
**COLLINS AND RICE**  
CONSULTING ENGINEERS

DESIGNED: J.M. DATE: 4-23-12  
CHECKED: J.M. DATE: 4-23-12

FILE NAME: C:\SP\WHKS & COL\Jobs-Spring - Projects\Champaign County\9525 Champaign Co. TR201A over Kaskaskia Ditch\CADD\CAD\_Sheets\SN 010-4032.dgn



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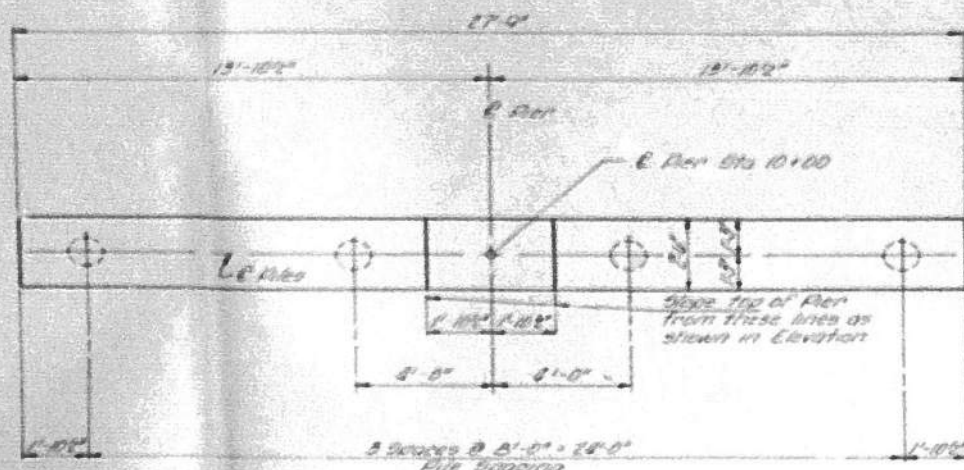
CHAMPAIGN COUNTY HIGHWAY DEPARTMENT

EXISTING PLANS - FOR INFORMATION ONLY  
STRUCTURE NO. 010-4032

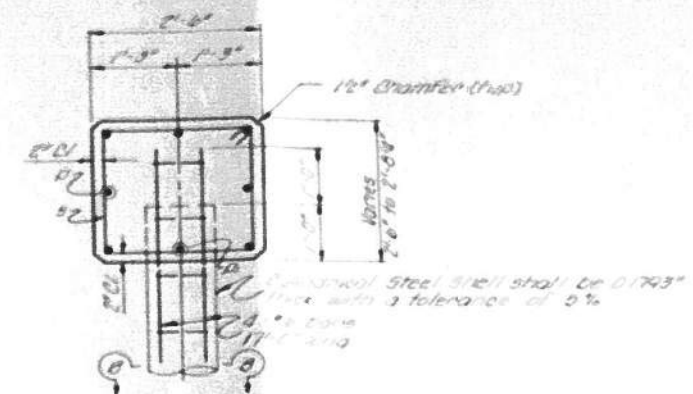
SHEET 11 OF 12 SHEETS

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
201A	22-03123-00-BR	CHAMPAIGN	20	19
			CONTRACT NO. 91633	
		ILLINOIS	FED. AID PROJECT	

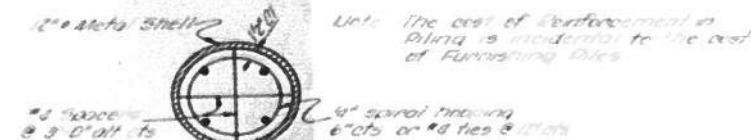
DATE	BY	APP'D	SCALE	SHEET NO.
4-25-72	JDF	M.B.	1/2"	20



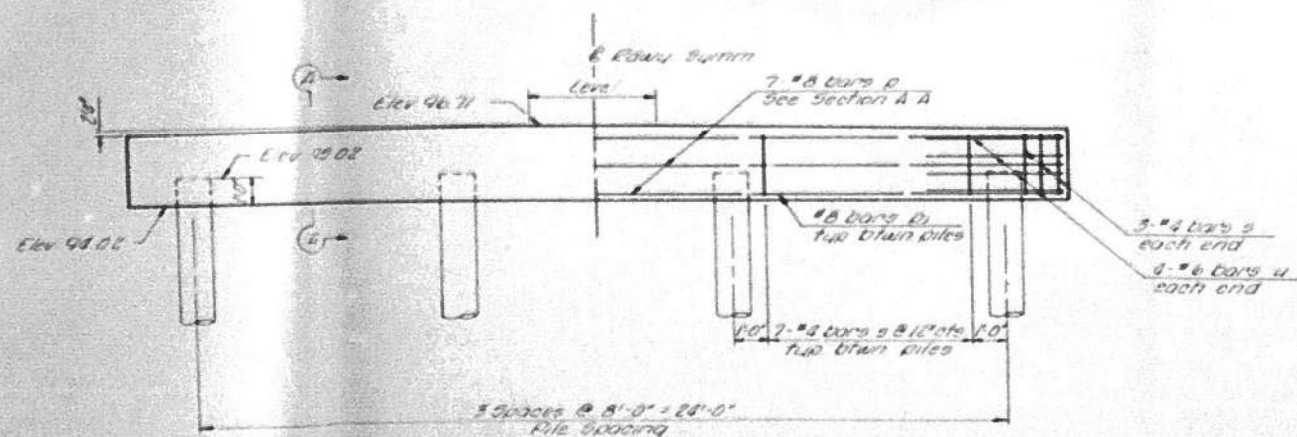
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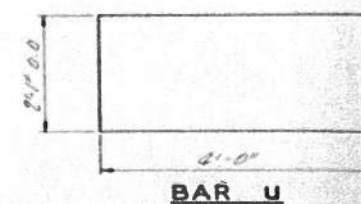
SECTION A-A



SECTION B-B



ELEVATION



PILE DATA

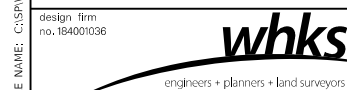
Type	Steel Shell Cast-in-Place Concrete
Min Capacity	35 tons/pile
Est Length	30 feet/pile

BILL OF MATERIAL - PIER

BAR	NO	SIZE	LENGTH	GRADE	
B	7	#8	27'-5"		
B1	3	#8	8'-0"		
U	8	#6	10'-1"		
S	27	#4	4'-9"		
Class X Concrete				02V0	86
Reinforcement Bars				LD	860
Metal Pile Shells, 12"				LMF7	120

PIER  
SECTION CAB I-72  
CHAMPAIGN ROAD DISTRICT  
CHAMPAIGN COUNTY  
STATION 10+00  
COLLINS AND RICE  
CONSULTING ENGINEERS  
DESIGNED BY F.S. DATE 4-25-72 SHEET NO. 20

FILE NAME: C:\SP\WHKS & COL\Jobs-Spring - Projects\Champaign County\9525 Champaign Co. TR201A over Kaskaskia DICT\CAD\CAD\_Sheets\SN 010-4032.dgn



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PLOT DATE = 1:52:18 PM	DRAWN - DLH	REVISED -
	CHECKED - JLM	REVISED -

CHAMPAIGN COUNTY HIGHWAY DEPARTMENT

EXISTING PLANS - FOR INFORMATION ONLY  
STRUCTURE NO. 010-4032

SHEET 12 OF 12 SHEETS

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
201A	22-03123-00-BR	CHAMPAIGN	20	20
			CONTRACT NO. 91633	
		ILLINOIS	FED. AID PROJECT	