US Army Corps
of Engineers®
KANSAS CITY DISTRICT

KANOPOLIS DAM AND RESERVOIR
SMOKY HILL RIVER, KANSAS
REPAINT SERVICE BRIDGE SUPERSTRUCTURE
P2 - 486823, FY2022

SOLICITATION NO.: W912DQ23B1002
CONTRACT NO.: SEE COVER SHEET
ISSUE DATE: OCTOBER 2022

SHEET INDEX

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	ISSUE DATE:
E. FERNANDEZ	OCTOBER 2022
DRAWN BY:	SOLICITATION NO.:
J. MAXWELL	W912DQ23B1002
CHECKED BY:	CONTRACT NO.:
E. FERNANDEZ	SEE COVER SHEET
SUBMITTED BY:	DRAWING CODE:
A. SVITAK	
SIZE:	FILE NAME:
ANSI D	KA_G-001.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

KANOPOLIS DAM AND RESERVOIR
SMOKY HILL RIVER, KANSAS
REPAINT SERVICE BRIDGE SUPERSTRUCTURE
P2 - 486823, FY2022

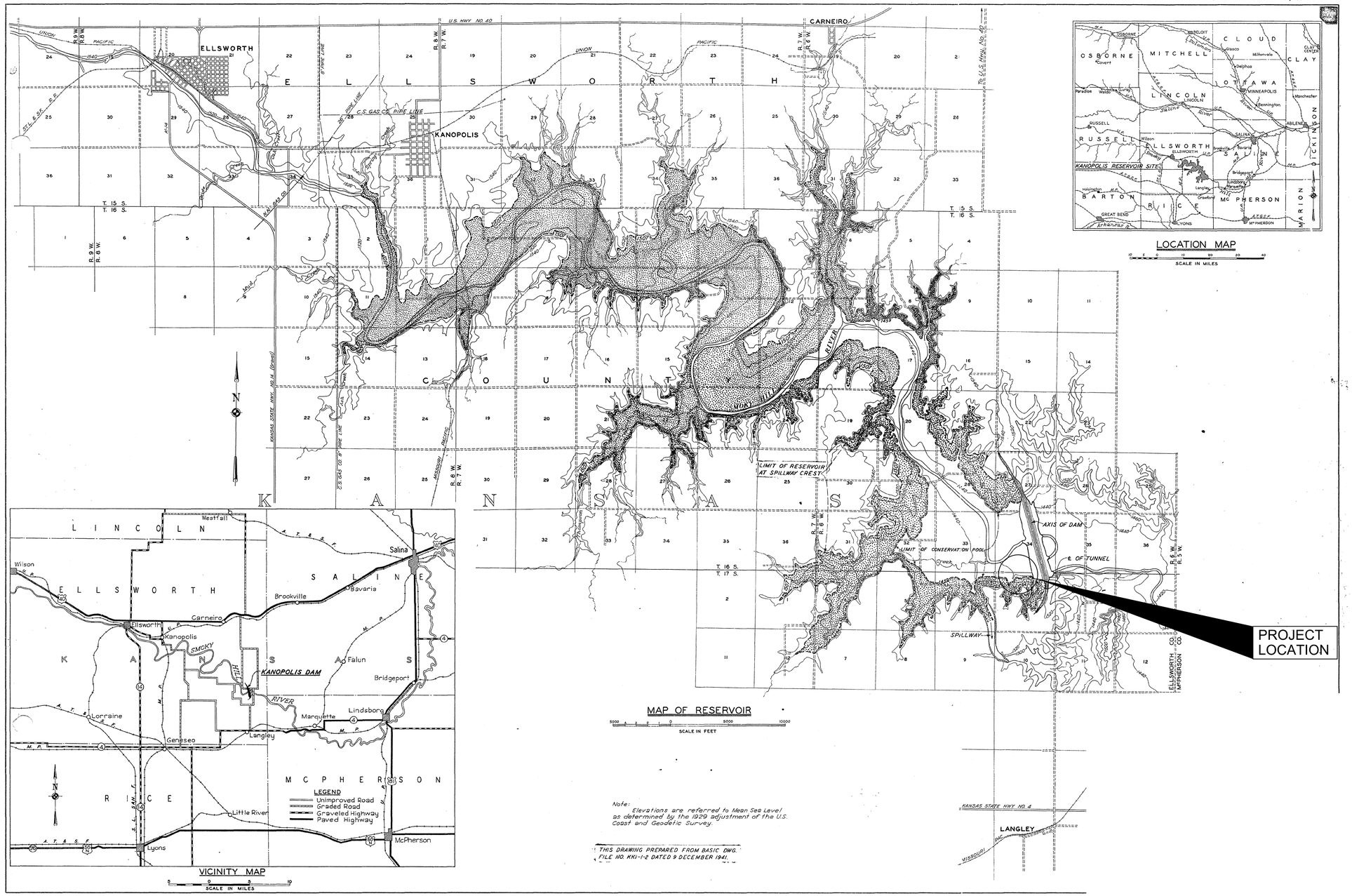
COVER SHEET AND
SHEET INDEX

SHEET ID

G-001

WAR DEPARTMENT

CORPS OF ENGINEERS, U.S. ARMY



LOCATION MAP

SCALE IN MILES

VICINITY MAP

SCALE IN MILES

MAP OF RESERVOIR

SCALE IN FEET

Note: Elevations are referred to Mean Sea Level as determined by the 1929 adjustment of the U.S. Coast and Geodetic Survey.

THIS DRAWING PREPARED FROM BASIC DWG. FILE NO. KKI-1-2 DATED 9 DECEMBER 1941.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	E. FERNANDEZ
DRAWN BY:	J. MAXWELL
CHECKED BY:	E. FERNANDEZ
SUBMITTED BY:	A. SVITAK
ANSI D	

ISSUE DATE: OCTOBER 2022
SOLICITATION NO.: W912DQ23B1002
CONTRACT NO.: SEE COVER SHEET
DRAWING CODE:
DRAWING CODE:
FILE NAME: K4_G-002.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

KANOPOLIS DAM AND RESERVOIR
SMOKY HILL RIVER, KANSAS
REPAINT SERVICE BRIDGE SUPERSTRUCTURE
P2 - 486623, FY2022

LOCATION AND VICINITY MAP

SHEET ID

G-002

...\RepaintServiceBridgeSuperstructure\6.0 Engineering-Design\6.1 Drawings_Imperial_U6\CAD_BIM_Sheets\LOCATION AND VICINITY MAP
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BIDDABILITY, CONSTRUCTIBILITY, OPERABILITY, ENVIRONMENTAL, AND SUSTAINABILITY

B1 PROJECT AREA MAP
SCALE: NTS

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KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

KANOPOLIS DAM AND RESERVOIR
SMOKY HILL RIVER, KANSAS
REPAINT SERVICE BRIDGE SUPERSTRUCTURE
P2 - 486823, FY2022

OVERALL SITE PLAN

SHEET ID
G-003

E1 ABUTMENT NORTH CORNER ELECTRICAL JUNCTION BOX

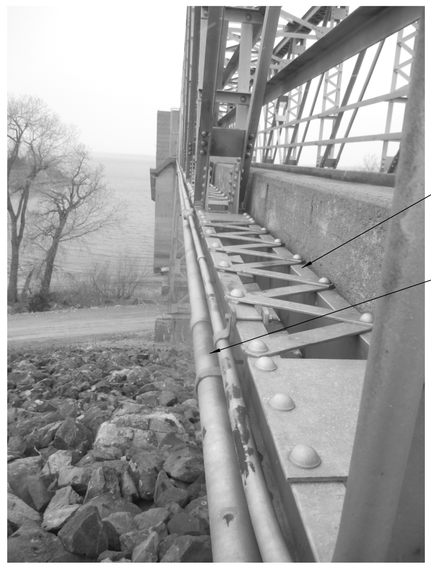
SCALE: NTS

E6 NORTH ELECTRICAL CONDUIT - LOOKING TOWARDS INTAKE TOWER

SCALE: NTS

A1 ABUTMENT SOUTH CORNER ELECTRICAL JUNCTION BOX

SCALE: NTS



A6 SOUTH ELECTRICAL CONDUIT - LOOKING TOWARDS INTAKE TOWER

SCALE: NTS

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KANSAS CITY DISTRICT
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KANOPOLIS DAM AND RESERVOIR
SMOKY HILL RIVER, KANSAS
REPAINT SERVICE BRIDGE SUPERSTRUCTURE
P2 - 486823, FY2022

SERVICE BRIDGE ELECTRICAL AND COMMUNICATION LINES RELOCATION DETAILS

SHEET ID

S-001

...\RepaintServiceBridgeSuperstructure\6.0 Engineering-Design\6.1 Drawings_Imperial_U6\CAD_BIM_Sheets\SERVICE BRIDGE ELECTRICAL AND COMMUNICATION LINES RELOCATI
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RIVET EVALUATION CRITERA

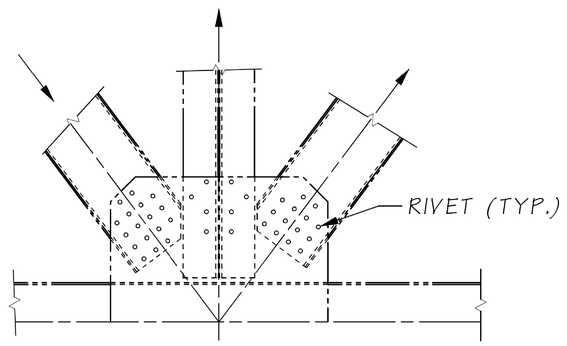
RIVETS SHALL BE REPLACED IF THEY FAIL TO MEET ANY ONE OF THESE CRITERIA.

1. REPLACE RIVET IF THERE IS SEPARATION BETWEEN THE SOUND METAL SURFACES OF EITHER RIVET HEAD AND THE RIVETED PARTS. (SEE SYMBOL δ)
2. REPLACE RIVET IF THE RIVET VISUALLY APPEARS TO BE LOOSE FOR ANY REASON. RIVETS VISUALLY SUSPECT OF BEING LOOSE SHALL BE CONFIRMED LOOSE IF IT CAN BE FELT TO MOVE AFTER BEING STRUCK ON THE SIDE OF THE HEAD IN A DIRECTION APPROXIMATELY PERPENDICULAR TO ITS SHANK WITH A 40 OZ HAMMER.
3. REPLACE RIVET IF SECTION LOSS IS EQUAL TO OR GREATER THAN THE DIAGRAM SHOWN BELOW. THE ENGINEER SHALL BE CONSULTED IF UNCLEAR AS TO THE RIVET LOADING CONDITION OR USE THE SECTION LOSS CRITERIA FOR "UNKNOWN" LOADING CONDITION. FOR RIVETS WITH IRREGULAR SECTION LOSS, CONTACT THE CONTRACTING OFFICER FOR DIRECTION.

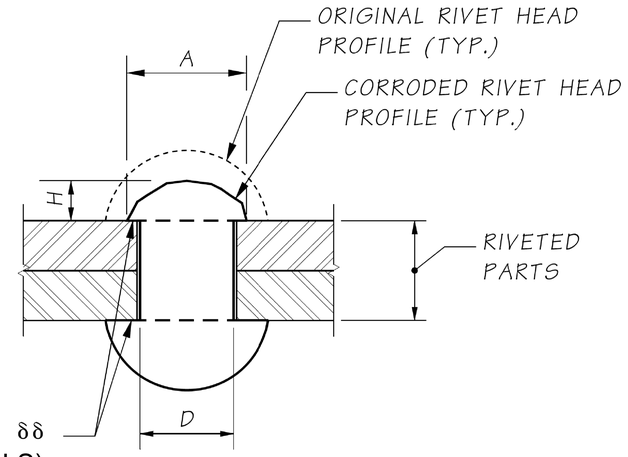
RIVET INSPECTION AND REPLACEMENT NOTES

1. EXISTING RIVETS TO REMAIN ON MEMBERS AND/OR GUSSETS BEING PAINTED SHALL BE EVALUATED AFTER FIELD PREPARATION FOR PAINTING IS COMPLETED AND SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH THE RIVET EVALUATION CRITERIA SHOWN ON THIS SHEET. NEW H.S. BOLTS SHALL BE INSTALLED AND TENSIONED IN ACCORDANCE WITH SPECIFICATION 05 12 00, AND PREPARED FOR PAINT IN ACCORDANCE WITH SPECIFICATION 09 97 02.
2. BOLTS SHALL CONFORM TO ASTM F3125 GR A325. BOLTS REPLACING RIVETS SHALL HAVE A DIAMETER MATCHING THE DIAMETER OF THE RIVET THEY REPLACE. EXISTING HOLES MAY BE REAMED TO THE RIVET DIAMETER PLUS 1/8" MAXIMUM TO FACILITATE BOLT INSTALLATION IF NEEDED. BOLTS SHALL BE INSTALLED AND TENSIONED IN ACCORDANCE WITH SPECIFCATION 05 12 00.
3. UNLESS OTHERWISE SHOWN IN THE PLANS OR APPROVED BY THE ENGINEER, ONLY ONE RIVET MAY BE REMOVED AND REPLACED AT A TIME AT ANY CONNECTION. THE REPLACEMENT BOLT SHALL BE FULLY INSTALLED AND TENSIONED BEFORE THE NEXT RIVET MAY BE REMOVED.
4. PRIOR TO STARTING ANY RIVET REMOVAL, THE CONTRACTOR SHALL SUBMIT A WORKING DRAWING AS PART OF THE BRIDGE INSPECTION PLAN DETAILING PROPOSED RIVET REMOVAL METHODS TO THE CONTRACTING OFFICER FOR ENGINEER REVIEW. ACCEPTANCE WILL REQUIRE DEMONSTRATION BY THE CONTRACTOR TO ENSURE NO DAMAGE WILL OCCUR TO THE EXISTING MEMBER TO REMAIN. NO FLAME CUTTING METHODS WILL BE PERMITTED ON ANY STRUCTURAL MEMBERS IN TENSION . USE OF A GAS CUTTING TORCH WITH A SCARFING TIP WILL BE PERMITTED ONLY FOR PROBLEMATIC RIVET REMOVAL AND ONLY AFTER APPROVAL HAS BEEN OBTAINED FROM THE CONTRACTING OFFICER.
5. RIVET CAMMING - A CONDITION WHERE THE RIVET HOLE IS NOT STRAIGHT AS A RESULT OF MISALIGNED PLATES. REAMING OF THE HOLES MAY BE NECESSARY FOR CORRECTING AND CLEANING HOLE.
6. THE BRIDGE INSPECTOR SHALL INSPECT ALL BRIDGE STRUCTURAL MEMBERS. IF A SUSPECTED CRACK IS FOUND, THE BRIDGE INSPECTOR SHALL PERFORM NDT USING A DYE PENETRATION TEST KIT, ETC.
7. SPECIAL ATTENTION WILL BE MADE CONCERNING GUSSET AND COVER PLATES FOR SIGNS OF PACK RUST, DISTORTION FROM OVERLOAD, AND SECTION LOSS. MEMBER THICKNESS SHOULD BE VERIFIED USING NDT METHODS SUCH AS A D-METER OR CALIPERS AND COMPARED TO ORIGINAL DRAWINGS.

MINIMUM REVIT DIMENSIONS				
	LOADING: PRIMARILY SHEAR		LOADING: TENSION & SHEAR TENSION OR UNKNOWN	
RIVIT SHANK DIAMETER "D"	MINIMUM HEAD DIAMETER "A"	MINIMUM HEAD DIAMETER "H"	MINIMUM HEAD DIAMETER "A"	MINIMUM HEAD DIAMETER "H"
5/8"	7/8"	3/16"	1"	3/4"
3/4"	1"	1/4"	1 1/8"	7/16"
7/8"	1 1/8"	3/8"	1 1/4"	9/16"

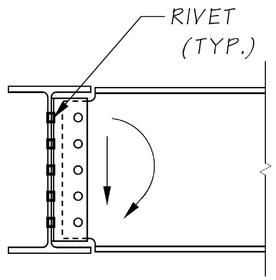


EXAMPLE OF PRIMARILY SHEAR

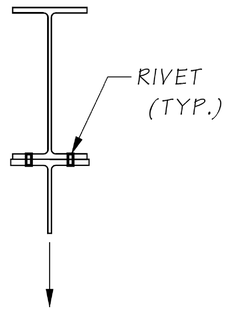


D1 RIVET LOADING CONDITION - PRIMARILY SHEAR (DIAGONALS)

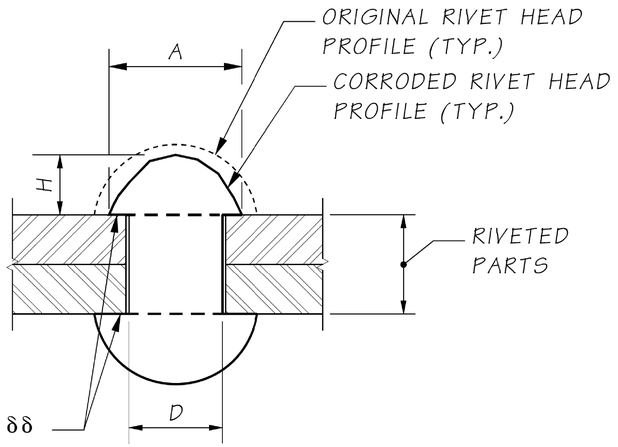
SCALE: NTS



EXAMPLE OF TENSION & SHEAR



EXAMPLE OF PRIMARILY TENSION



A1 RIVET LOADING CONDITION - PRIMARILY TENSION, TENSION & SHEAR, OR UNKOWN (FLOOR BEAMS)

SCALE: NTS

US Army Corps of Engineers®

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DESIGNED BY: E. FERNANDEZ
DRAWN BY: J. MAXWELL
CHECKED BY: E. FERNANDEZ
SUBMITTED BY: A. SVITAK
SIZE: ANSI D
ISSUE DATE: OCTOBER 2022
SOLICITATION NO.: W912DQ23B1002
CONTRACT NO.: SEE COVER SHEET
DRAWING CODE:
FILE NAME: K4_S-002.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

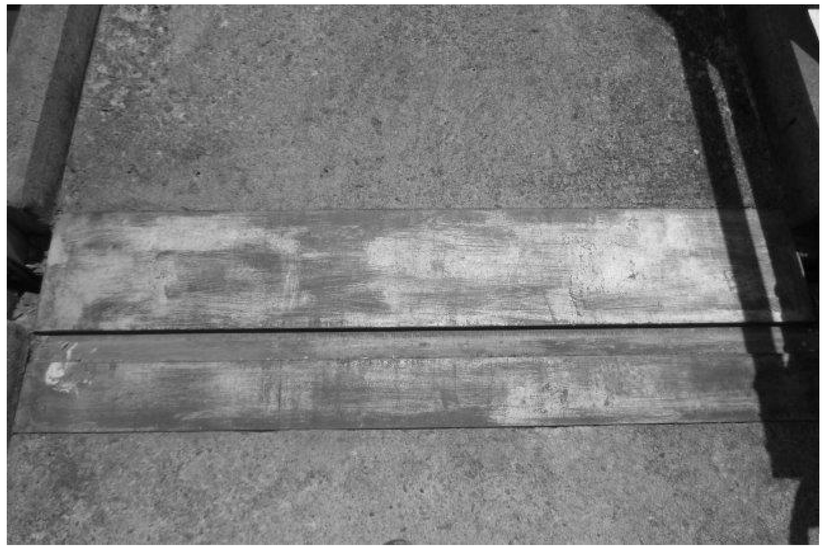
KANOPOLIS DAM AND RESERVOIR
SMOKY HILL RIVER, KANSAS
REPAINT SERVICE BRIDGE SUPERSTRUCTURE
P2 - 486523, FY2022

SERVICE BRIDGE
RIVET INSPECTION DETAILS

SHEET ID
S-002

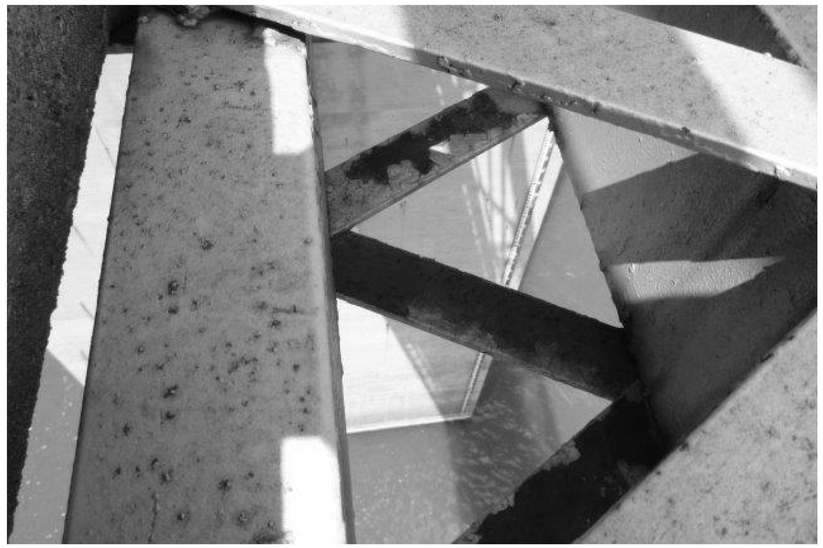
NOTES

1. AS SHOWN IN DETAIL D1, ALL BRIDGE EXPANSION SLIDING PLATE JOINTS SHALL BE CLEANED AND PAINTED FOLLOWING THE PROCEDURES OUTLINED IN SPECIFICATION 09 97 02.
2. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MEDIA-BLAST CLEAN UNDER ALL COVER PLATES OF THE BRIDGE AS SHOWN IN DETAIL D5. AFTER UNDERSIDE OF COVER PLATES ARE CLEAN, PAINT FOLLOWING THE PROCEDURES OUTLINED IN SPECIFICATION 09 97 02.
3. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MEDIA-BLAST CLEAN THOROUGHLY ALL SIDES OF BRIDGE LACING, BACKSIDES OF "C" CHANNELS, AND IN POCKETS OF BRIDGE BEARINGS PRIOR TO REPAINTING AS SHOWN IN DETAILS A1 AND A5. PAINT FOLLOWING THE PROCEDURES OUTLINED IN SPECIFICATION 09 97 02.

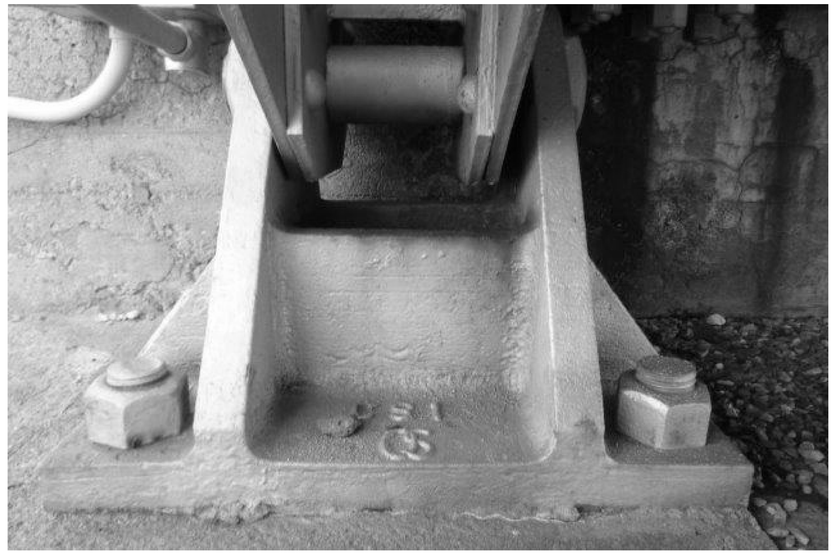


D1 BRIDGE EXPANSION JOINT SLIDING PLATES
SCALE: NTS

D5 PACK RUST UNDER COVER PLATES
SCALE: NTS



A1 STRUCTURAL LACING
SCALE: NTS



A5 BRIDGE FIXED AND ROLLER BEARINGS
SCALE: NTS

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E. FERNANDEZ	OCTOBER 2022
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J. MAXWELL	W912DQ23B1002
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SUBMITTED BY:	DRAWING CODE:
A. SVITAK	
SIZE:	FILE NAME:
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U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

KANOPOLIS DAM AND RESERVOIR
SMOKY HILL RIVER, KANSAS
REPAINT SERVICE BRIDGE SUPERSTRUCTURE
P2 - 486023, FY2022

SERVICE BRIDGE
RIVET INSPECTION DETAILS

SHEET ID
S-003

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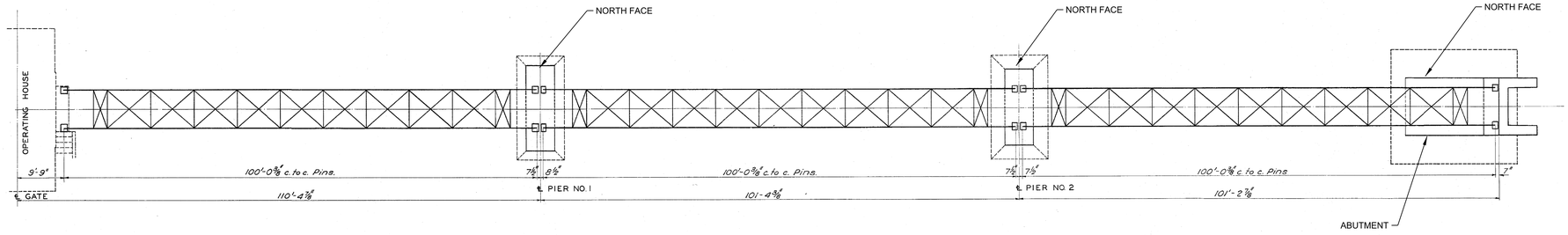
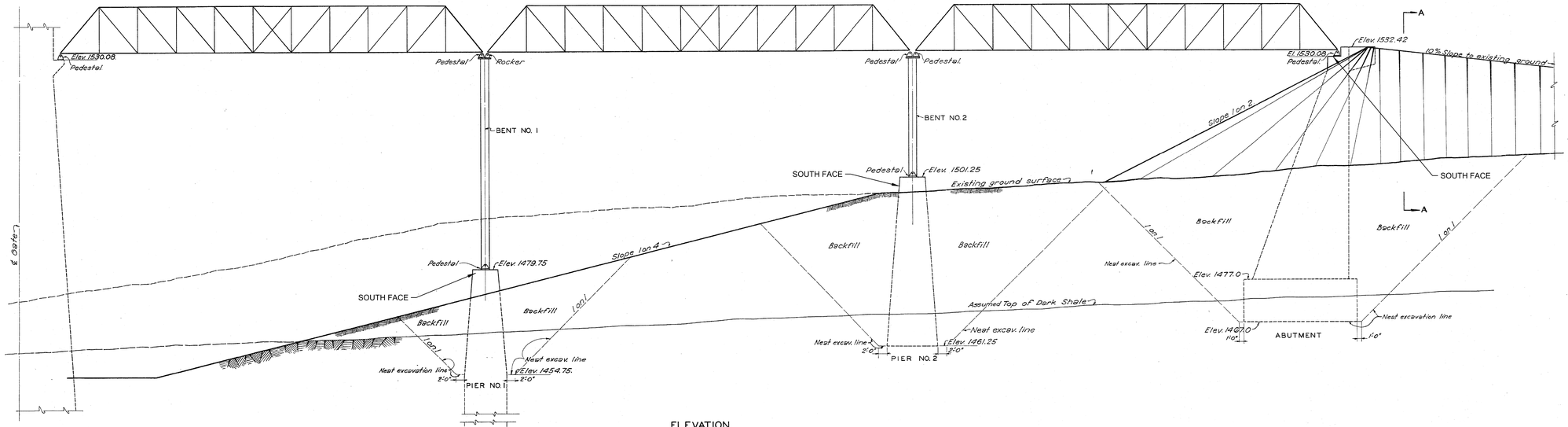


PLAN



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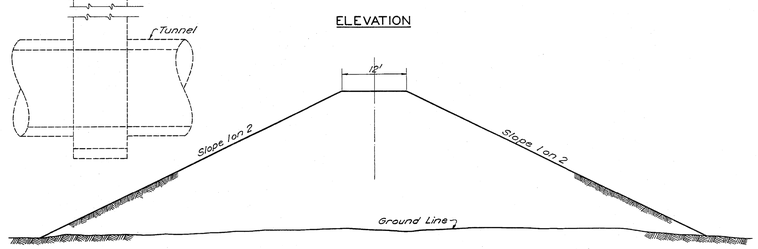

SECTION A-A

General Notes :

For details of Piers and Abutment see Dwg. KK 2-5-4 & KK 2-5-6.
For details of Steel Bents see Dwg. KK 2-5-3.
For details of Bridge Truss see Dwg. KK 2-5-2.
For detail of Bridge Lighting and Control Tower Electric Service see Dwg. No. C-2-166.

RECORD DRAWING

FEBRUARY 1948

NO.	DATE	BY	REVISIONS	APP'D.
2	4-1-48	M.W.R.	Added base pier No.1- As built.	JHH
1	3-27-40	R.R.D.	Minor revisions.	JHH

SMOKY HILL RIVER

KANOPOLIS DAM

TUNNEL

SERVICE BRIDGE

PLAN AND ELEVATION

In 1 Sheet | Sheet No. 1 | Scale: 1" = 10'-0"

U.S. ENGINEER OFFICE, MISSOURI RIVER DIVISION — KANSAS CITY, MO., FEBRUARY, 1940

Submitted:	Recommended:	Approved:
J.H. Courts, Principal Engineer	John D. Stevenson, Captain, Corps of Engineers	C.R. Lindbergh, Colonel, Corps of Engineers

Drawn By:	Traced By:	Checked By:	Transmitted with letter dated:	File No.
E.B.C.	A.P.	R.R.D.	March 2, 1940	KK2-5-1

O. & M. M. PLATE NO. 24

FOR INFORMATION ONLY

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	E. FERNANDEZ
DRAWN BY:	J. MAXWELL
CHECKED BY:	E. FERNANDEZ
SUBMITTED BY:	A. SVITAK
ANSI D	

ISSUE DATE: OCTOBER 2022
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CONTRACT NO.: SEE COVER SHEET
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FILE NAME: K4_RS-700.dgn

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KANSAS CITY DISTRICT
601 E. 12TH STREET
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KANOPOLIS DAM AND RESERVOIR
SMOKY HILL RIVER, KANSAS
REPAINT SERVICE BRIDGE SUPERSTRUCTURE
P2 - 466823, FY2022

SERVICE BRIDGE
PLAN AND ELEVATION

SHEET ID

RS-700

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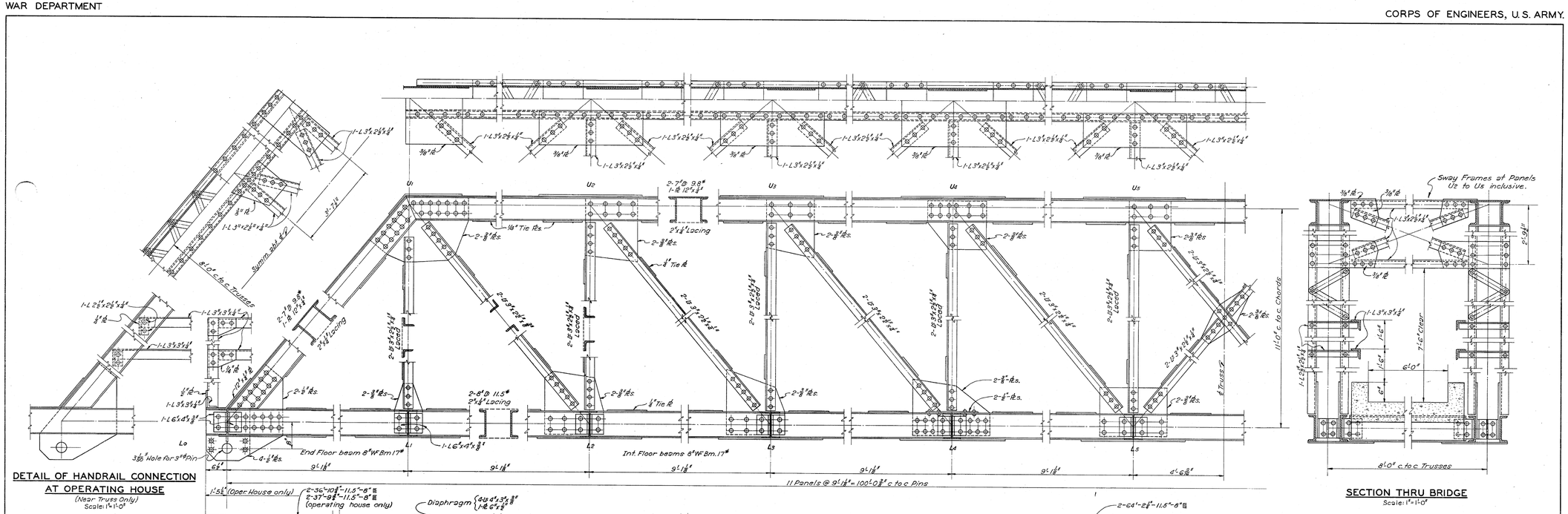

General Notes:
All rivets ⅞"ϕ except flanges of 7"@ 5/8"ϕ.
All concrete shown hereon shall be included for payment under "concrete for Service Bridge Floor Slab, class A".
Increase length of upper chord panels to 9'-1⅛" for camber.
Paint - 1 shop coat, 2 field coats, & 1 coat aluminum.
For bridge lighting and electrical service detail see dwg. No. C-2-1CC.
For dimensions and rivet spacing see shop drawing.

RECORD DRAWING

FEBRUARY 1948

NO.	DATE	BY	REVISIONS	APP'D
2.	4-1-48	M.W.R.	Minor revisions. As built.	
1.	3-27-40	P.D.D.	Details added.	

SMOKY HILL RIVER

KANOPOLIS DAM

TUNNEL

SERVICE BRIDGE

DETAILS OF SUPER-STRUCTURE

In 1 Sheet | Sheet No. 1 | Scale: as shown

U.S. ENGINEER OFFICE, MISSOURI RIVER DIVISION — KANSAS CITY, MO. — FEBRUARY, 1940

Submitted:	Recommended:	Approved:
Principal Engineer	Captain, Corps of Engineers	Colonel, Corps of Engineers

Drawn By:	Traced By:	Checked By:	Transmitted with letter	File No.
W.F.B	J.L.T.	R.R.D.	dated: March 2, 1940	KK2-5-2

O. & M. M. PLATE NO. 25

FOR INFORMATION ONLY

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DRAWN BY:	J. MAXWELL
CHECKED BY:	E. FERNANDEZ
SUBMITTED BY:	A. SZWITAK
SIZE	ANSI D
ISSUE DATE:	OCTOBER 2022
SOLICITATION NO.:	W912DQ23B1002
CONTRACT NO.:	SEE COVER SHEET
DRAWING CODE:	
DRAWING_CODE	
FILE NAME:	KA_RS-701.dgn

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KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

KANOPOLIS DAM AND RESERVOIR
SMOKY HILL RIVER, KANSAS
REPAINT SERVICE BRIDGE SUPERSTRUCTURE
P2 - 486823, FY2022

SERVICE BRIDGE
DETAILS OF SUPER-STRUCTURE

SHEET ID

RS-701

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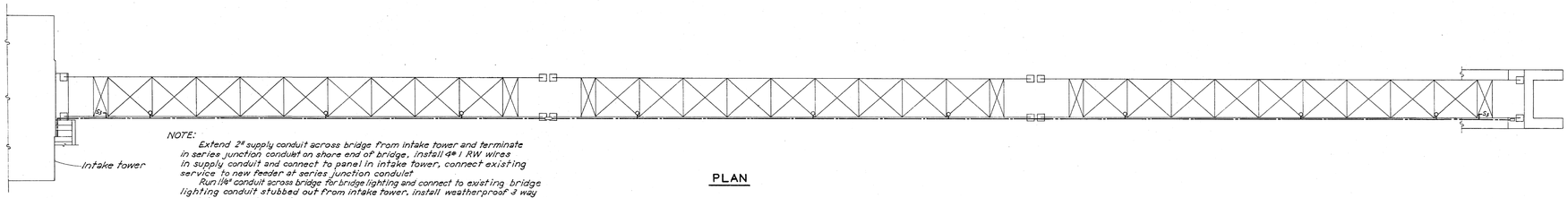
BIDDABILITY, CONSTRUCTIBILITY, OPERABILITY, ENVIRONMENTAL, AND SUSTAINABILITY

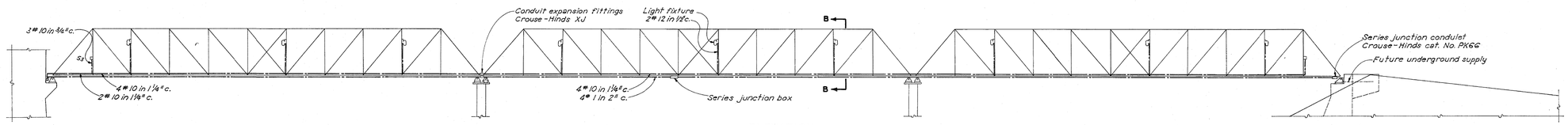
WAR DEPARTMENT

CORPS OF ENGINEERS, U.S. ARMY.

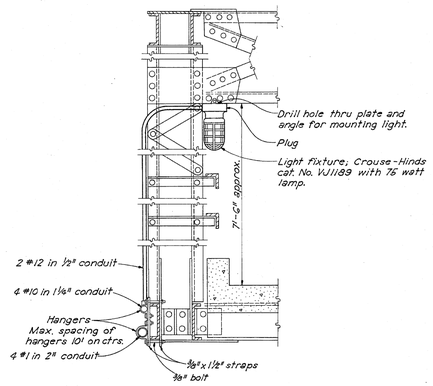


NOTE:
Extend 2" supply conduit across bridge from intake tower and terminate in series junction conduiet on shore end of bridge, install 4 #1 RW wires in supply conduit and connect to panel in intake tower, connect existing service to new feeder at series junction conduiet
Run 1¼" conduit across bridge for bridge lighting and connect to existing bridge lighting conduit stubbed out from intake tower, install weatherproof 3 way switches on each end of bridge, connect bridge lights to bridge lighting circuit in panel 3 way switches for bridge lights to be weatherproof, key operated Bryant No. 5503 conduiet with cover Crouse-Hinds cat. No. DS 106 and 3 way push button switch, 2 keys to be furnished with each switch.

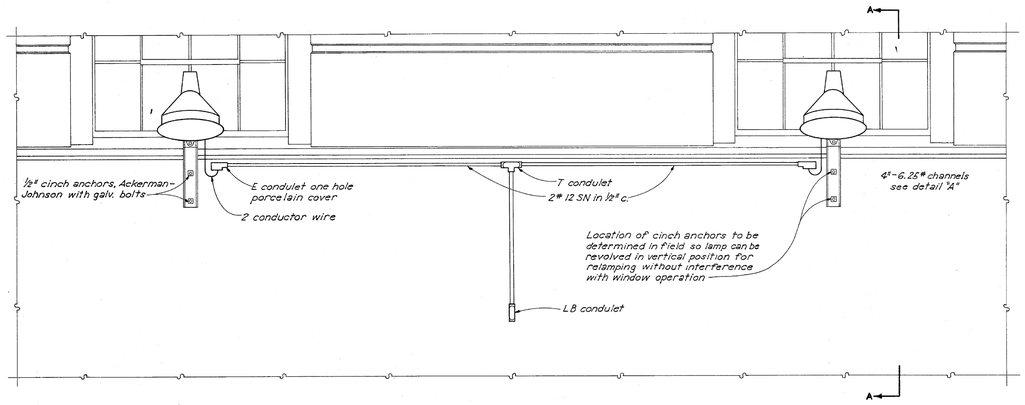
PLAN



ELEVATION
SERVICE BRIDGE
Scale: 1" = 10'-0"

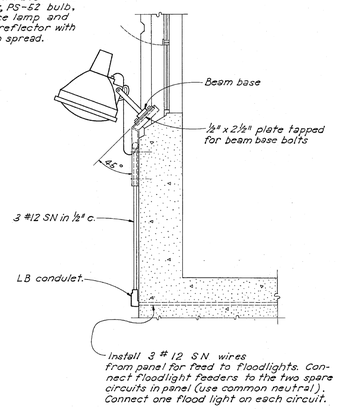


SECTION B-B
Scale: 1" = 1'-0"

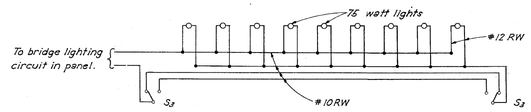


INTAKE TOWER
UPSTREAM ELEVATION
Scale: ⅜" = 1'-0"

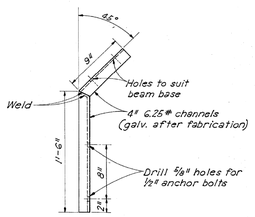
NOTE:
Floodlights Westinghouse Type CAK-16 with beam base and 1000 watt, PS-52 bulb, general service lamp and narrow beam reflector with 48° x 48° beam spread.



SECTION A-A
Scale: ⅜" = 1'-0"



WIRING DIAGRAM
BRIDGE LIGHTING



DETAIL "A"
Scale: 1½" = 1'-0"

RECORD DRAWING

FEBRUARY 1948

NO.	DATE	BY	REVISIONS	APP'D
1	6-1-48	M.W.R.	Revised for as built conditions	

SMOKY HILL RIVER

KANOPOLIS DAM

INTAKE TOWER AND SERVICE BRIDGE
ELECTRIC SERVICE AND EXTERIOR LIGHTING

In 1 Sheet | Sheet No. 1 | Scale: as shown

U.S. ENGINEER OFFICE
KANSAS CITY DISTRICT

KANSAS CITY, MO. MAY 1947

Submitted:	Recommended:	Approved:
Louis A. Feil, Principal Engineer	Head Engineer	Colonel, Corps of Engineers

Drawn By:	Traced By:	Checked By:	Transmitted with letter dated:	File No.
L.E.P.	A.L.K.	W.N.M.-R.L.G.		C-2-188

O. & M. M. PLATE NO. 54

FOR INFORMATION ONLY

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: OCTOBER 2022
SOLICITATION NO.: W912DQ23B1002
CONTRACT NO.: SEE COVER SHEET
DRAWING CODE:
DRAWING CODE:

DESIGNED BY: E. FERNANDEZ
DRAWN BY: J. MAXWELL
CHECKED BY: E. FERNANDEZ
SUBMITTED BY: A. SVITAK
SIZE: ANSI D
FILE NAME: KA_RS-702.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

KANOPOLIS DAM AND RESERVOIR
SMOKY HILL RIVER, KANSAS
REPAINT SERVICE BRIDGE SUPERSTRUCTURE
P2 - 486823, FY2022

INTAKE TOWER AND SERVICE BRIDGE
ELECTRIC SERVICE AND EXTERIOR LIGHTING

SHEET ID

RS-702

...\RepaintServiceBridgeSuperstructure\6.0 Engineering-Design\6.1 Drawings_Imperial_U6\CAD_BIM_Sheets\INTAKE TOWER AND SERVICE BRIDGE ELECTRIC SERVICE AND EXTER
10:17:18 AM 10/26/2022 PD: AEC_pdf.pltcfg DS: AEC_Screen.dscript

BIDDABILITY, CONSTRUCTIBILITY, OPERABILITY, ENVIRONMENTAL, AND SUSTAINABILITY