

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

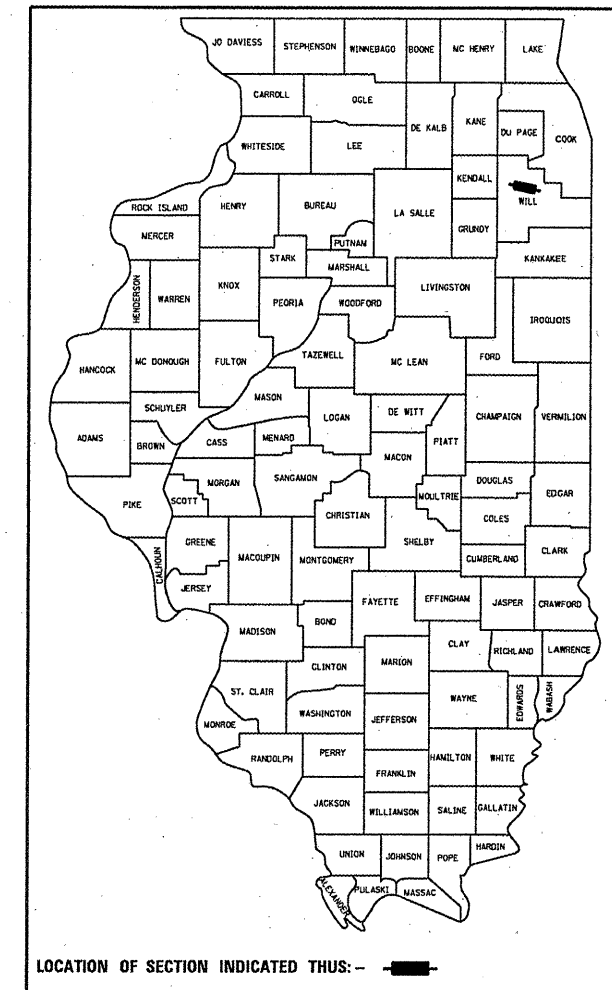
**PROPOSED  
 HIGHWAY PLANS**

FAP ROUTE 112: IL 53 (RUBY STREET)  
 OVER DES PLAINES RIVER  
 SECTION: M-BDR-1  
 BRIDGE REPAIR  
 WILL COUNTY  
 C-91-115-04

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	M-BDR-1	WILL	66	1
		ILLINOIS	CONTRACT NO. 62714	

\* 66 + 1 = 67

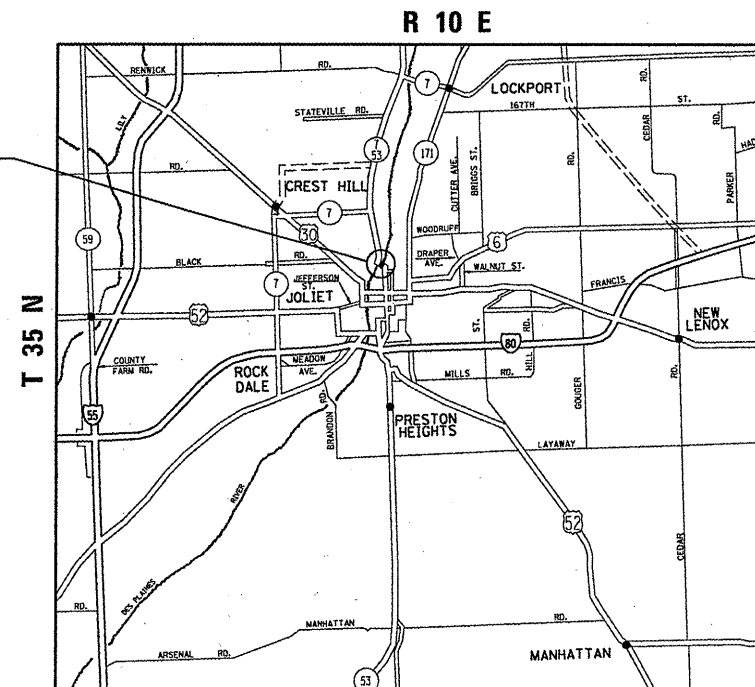
D-91-115-04



FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS IMPROVEMENT IS LOCATED IN  
 THE CITY OF JOLIET

LOCATION:  
 IL 53 (RUBY ST.) OVER  
 DES PLAINES RIVER  
 SN 099-9901



JOLIET TOWNSHIP

TRAFFIC DATA:  
 2009 ADT: 10,000  
 SPEED LIMIT: 30 MPH

NET LENGTH OF IMPROVEMENT = 395 LINEAL FT  
 GROSS LENGTH OF IMPROVEMENT = 395 LINEAL FT

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

PROJECT ENGINEER: ROBERT BORO (847)705-4178  
 PROJECT MANAGER: ISSAM RAYYAN

CONTRACT NO. : 62714

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED July 8 20 11  
*Diane M. O'Keefe* DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER  
Aug 19 20 11  
*Scott E. Stitt, P.E.* acting ENGINEER OF DESIGN AND ENVIRONMENT  
Aug 19 20 11  
*Christine M. Reed* DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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 OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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2	INDEX OF SHEETS AND STANDARDS
3	GENERAL NOTES
4	GENERAL PAINT NOTES
5	SUMMARY OF QUANTITIES
6-7	DETOUR ROUTE
8-9	SUBSTRUCTURE REPAIR (GROUT BAGS)
10-38A	BRIDGE PLAN SHEETS - BRIDGE PAINTING
39	MACHINERY WALL DETAILS
40-41	STEEL GRID DECK DETAILS
42	ELECTRIC INCINERATING TOILET DETAIL
43-44	ELECTRIC FURNACE AND AIR CONDITIONING UNIT
45	BRIDGE HOUSE INTERIOR WALL PAINTING
46	BRIDGE EXTERIOR WALL REPAIR
47	GEAR REDUCER SERVICE
48-57	BEARINGS GREASE GROOVE CLEANING
58-60	BEARING RETROFIT (PINION)
61	SUMP PUMPS REPLACEMENT
62-64	HANDRAIL REPAIRS
65	TIMBER SIDEWALK REMOVAL AND REPLACEMENT
66	ARTERIAL ROAD INFORMATION SIGN

LIST OF STATE STANDARDS

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
701301-04	LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
701606-07	URBAN LANE CLOSURE MULTILANE 2W WITH MOUNTABLE MEDIAN
701801-04	LANE CLOSURE, MULTILANE, 1W OR 2W, CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS

FILE NAME =	USER NAME = midyjo	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS &amp; STATE STANDARDS SN 099-9901</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
es:\pwork\pwork\midyjo\d0148931\Design	DRAWN -	REVISED -	112			M-BDR-1	WILL	66	2		
PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -	CONTRACT NO. 62714								
PLOT DATE = 7/12/2011	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								
						SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

**GENERAL NOTES**

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES & CITY OF JOLIET.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

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 BASED AT THE UNIT PRICE BID FOR THE WORK.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.

WORK ON THE STRUCTURE SHALL BE DONE IN SUCH A MANNER THAT THE CLOSURE OF THE BRIDGE TO RIVER TRAFFIC (PERIODS WHERE THE BRIDGE IS RESTRICTED IN THE DOWN POSITION) IS PROHIBITED. RIVER TRAFFIC IS TO BE MAINTAINED AT ALL TIMES. WORK THAT REQUIRES THE BRIDGE TO BE IMMOBILIZED SHALL BE DONE WITH THE BRIDGE RESTRICTED IN THE UP POSITION, SUBJECT TO COAST GUARD APPROVAL.

THE AREA WHERE THE TIMBER SIDEWALK IS REMOVED SHALL BE SECURED WITH TEMPORARY FENCE ACCORDING TO ART. 201.05 (A) OF THE STANDARD SPECIFICATIONS. COST SHALL BE INCLUDED WITH "TRAFFIC CONTROL AND PROTECTION STANDARD (SPECIAL)".

THE CONTRACTOR SHALL OBTAIN COAST GUARD APPROVAL TO OCCUPY NAVIGABLE WATERS, IF REQUIRED, FOR THE PROPOSED WORK. A WORK PLAN SHALL BE PREPARED BY THE CONTRACTOR, REVIEWED AND APPROVED BY THE ENGINEER AND BE SUBMITTED BY THE ENGINEER TO THE COAST GUARD AT THE ADDRESS LISTED BELOW FOR APPROVAL.

BRIDGE ADMINISTRATOR  
US COAST GUARD  
EIGHTH COAST GUARD DISTRICT  
1222 SPRUCE ST  
ST. LOUIS, MO 63103-2832  
ROGER WIEBESCH (314) 269-2378

FILE NAME =	USER NAME = midyjo	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES SN 099-9901</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
as:\pw\work\pwidot\midyjo\0148931\0111504\sh-t-pln.dgn	DRAWN -	REVISED -	112			M-BDR-1	WILL	66	3	
PLOT SCALE = 1/8"=1'-0"	CHECKED -	REVISED -	<b>CONTRACT NO. 62714</b>			ILLINOIS FED. AID PROJECT				
PLOT DATE = 7/8/2011	DATE -	REVISED -	SCALE:			SHEET NO.	OF SHEETS	STA.	TO STA.	

**GENERAL NOTES FOR PAINT**

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHOULD TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

THE CONTRACTOR SHALL SUBMIT CALCULATIONS AND DETAILS DEMONSTRATING THE STRUCTURAL INTEGRITY OF THE BRIDGE IS MAINTAINED UNDER THE ADDITIONAL IMPOSED LOADS OF THE CONTAINMENT SYSTEM, SEE SPECIAL PROVISIONS.

A MINIMUM OF FOUR (4) AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUE."

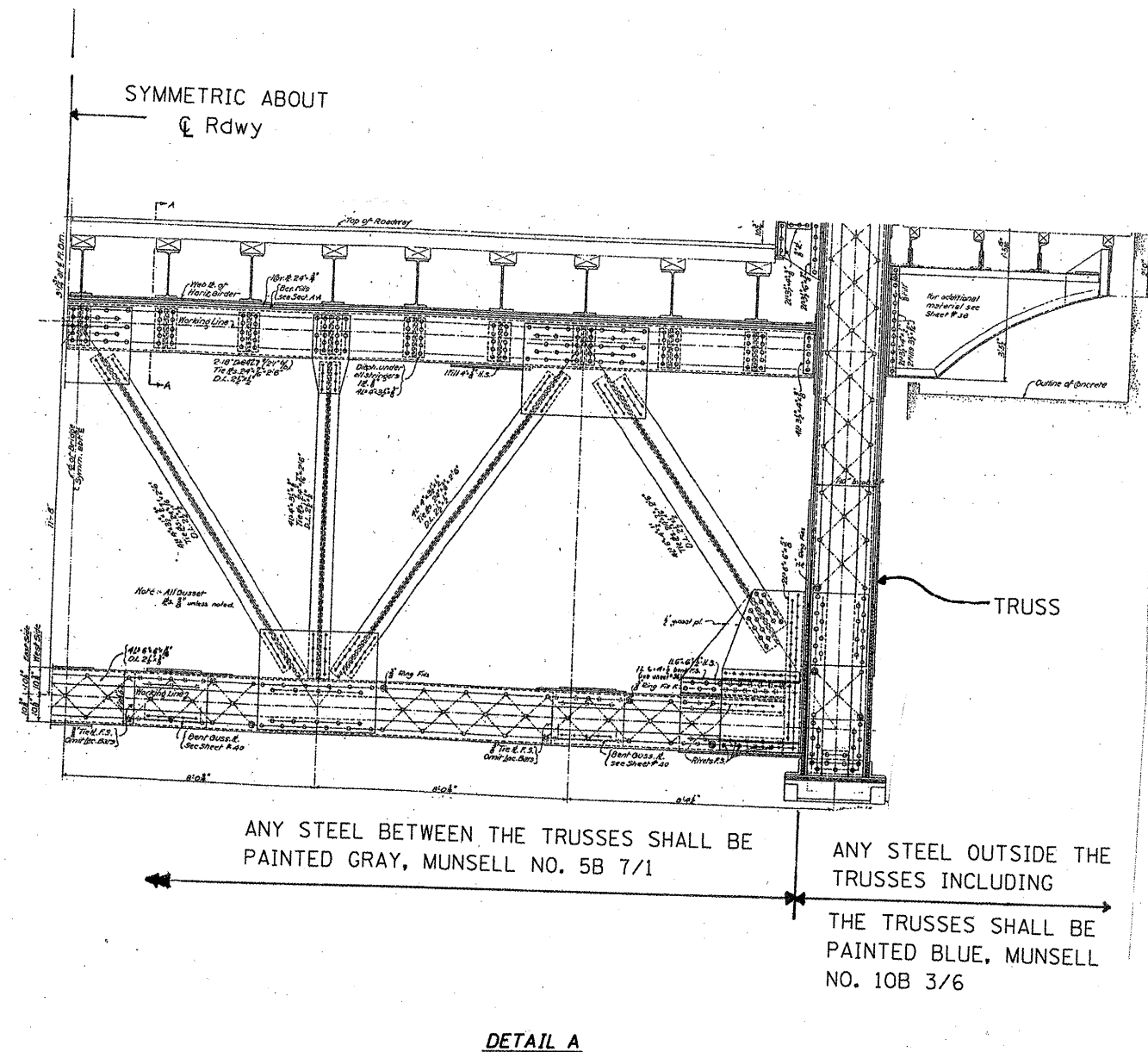
REMOVAL AND RE-INSTALLATION OF EXISTING MACHINERY ROOM FIBER GLASS WALL FOR ACCESS TO PAINTING IS INCLUDED IN THE COST OF "CLEANING AND PAINTING STEEL BRIDGE".

**APPROACH SPAN AND FIXED SPANS**

ALL EXISTING STEEL, INCLUDING HANDRAILS, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. ALL EXISTING STEEL INCLUDING HANDRAILS 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 AND BEARING DEVICES SHALL BE GRAY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL COAT FOR THE EXTERIOR AND TOP AND BOTTOM OF THE BOTTOM FLANGE OF THE FASCIA BEAMS, HANDRAILS, MACHINERY ROOM DOORS AND BEARING DEVICES SHALL BE BLUE, MUNSELL NO. 10B 3/6.

**BASCULE SPANS**

ALL EXISTING STEEL, INCLUDING HANDRAILS, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. ALL EXISTING STEEL INCLUDING HANDRAILS SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 - OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL STEEL SURFACES (SEE DETAIL A), INCLUDING HANDRAIL SHALL BE BLUE, MUNSELL NO. 10B 3/6. THE COLOR OF THE FINAL FINISH COAT FOR THE REMAINING STEEL FLOOR SYSTEM INCLUDING CATWALK, CROSS FRAMES AND LATERAL BRACING SHALL BE GRAY, MUNSELL NO. 5B 7/1.



ANY STEEL BETWEEN THE TRUSSES SHALL BE PAINTED GRAY, MUNSELL NO. 5B 7/1

ANY STEEL OUTSIDE THE TRUSSES INCLUDING THE TRUSSES SHALL BE PAINTED BLUE, MUNSELL NO. 10B 3/6

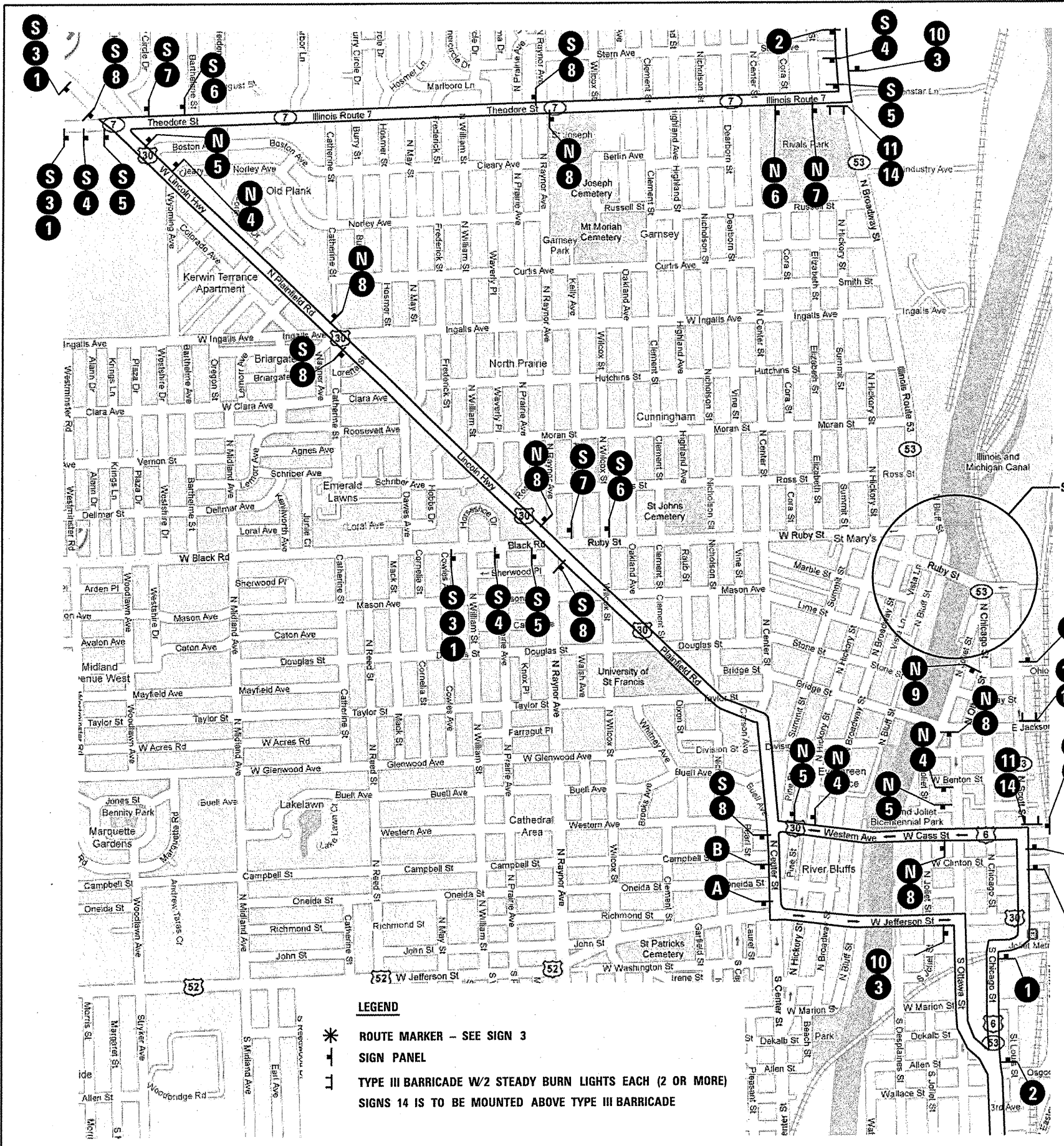
**DETAIL A**

FILE NAME =	USER NAME = midyja	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL PAINT NOTES SN 099-9901</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 8/9/2011		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

URBAN  
100% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT		0014			
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO.1	L SUM	1	1			
Z0007112	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1	1			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4			
67100100	MOBILIZATION	L SUM	1	1			
X0325204	TIMBER SIDEWALK REMOVAL AND REPLACEMENT	L SUM	1	1			
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1			
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	3	3			
Z0015550	DEBRIS REMOVAL	CU YD	40	40			
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	48	48			
Z0068508	STEEL GRID DECK REPAIRS	L SUM	1	1			
Z0076700	TRUNNION BEARING GREASE GROOVE CLEANING	L SUM	1	1			
Z0033750	MACHINERY BED BEARING GREASE GROOVE CLEANING	L SUM	1	1			
Z0027725	GEAR REDUCER SERVICE	L SUM	1	1			
Z0007750	BRIDGE TENDER HOUSE REHABILITATION	L SUM	1	1			
Z0029603	HANDRAIL REPAIRS	L SUM	1	1			
X0327286	SUBSTRUCTURE REPAIR (GROUT BAGS)	L SUM	1	1			
Z0069900	SUMP PUMPS REPLACEMENT	L SUM	1	1			
Z0003801	BEARING RETROFIT	L SUM	1	1			

FILE NAME =	USER NAME = mdy/jr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUBY STREET OVER DES PLAINES RIVER SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = 7/8/2011		DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO



1

W20-2(O)-48  
W/ TYPE 2 FLASHING LIGHT

2

W20-3(O)-48  
W/ TYPE 2 FLASHING LIGHT

3

4

M4-8(O) 3015  
M5-1R(O) 3018

5

M4-8(O) 3015  
M6-1(O) 3018

6

M4-8(O) 3015  
M6-1L(O) 3018

7

M4-8(O) 3015  
M6-1(O) 3018

8

M4-8(O) 3015  
M6-3(O) 3018

9

M4-8(O) 3015  
M6-2R(O) 3018

10

M4-8A(O) 3015

11

R11-3 6030

12

R11-4 6030

13

R11-2B 4830

14

M4-1(O) 4818

15

W4-2(O)-48

16

R11-1(O) 2418

17

W20-5R(O)-48  
W/ TYPE 2 FLASHING LIGHT

N

NORTH  
M3-1 2412

S

SOUTH  
M3-3 2412

A

EXISTING

B

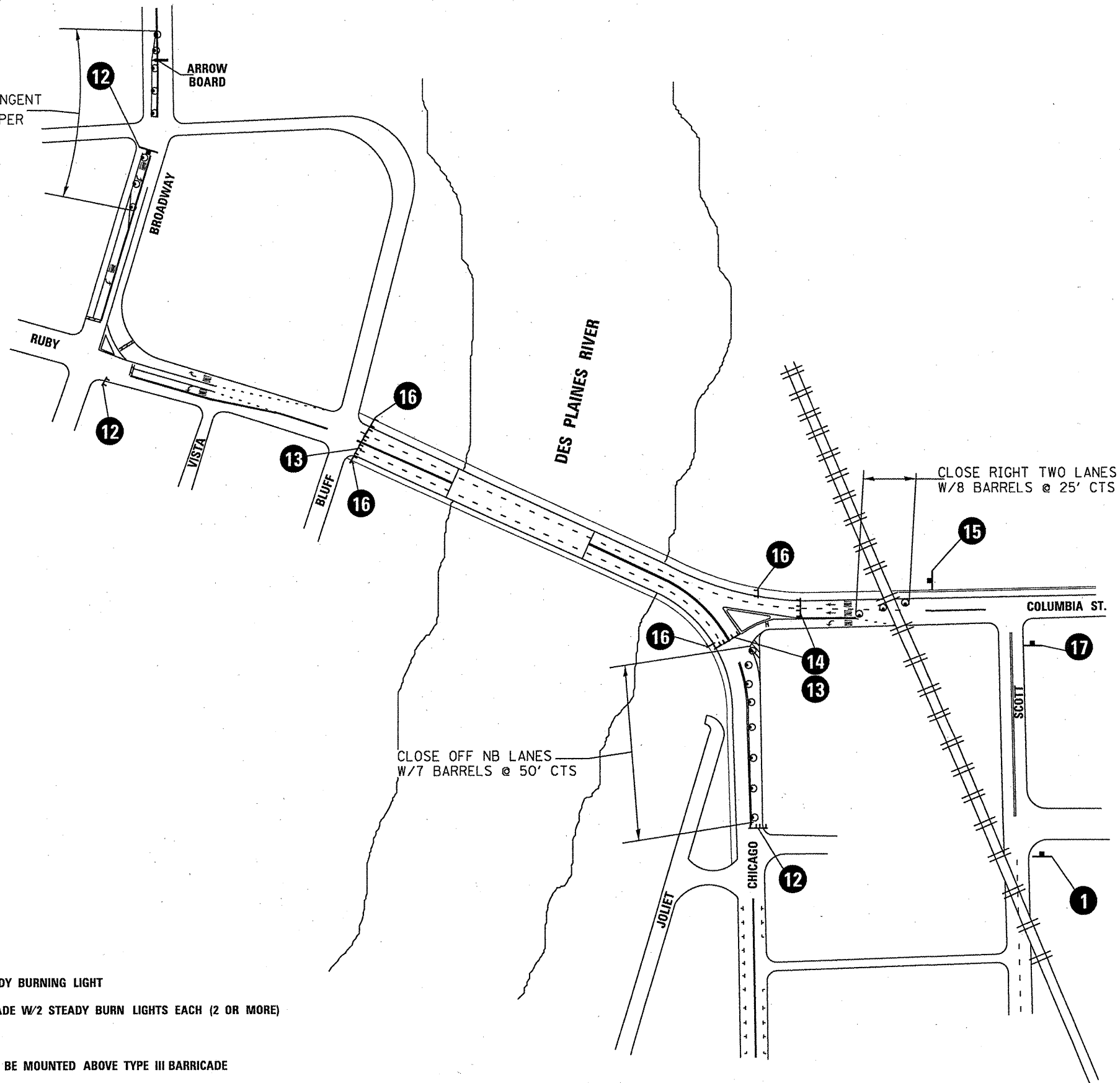
EXISTING

**LEGEND**

- \* ROUTE MARKER - SEE SIGN 3
- SIGN PANEL
- TYPE III BARRICADE W/2 STEADY BURN LIGHTS EACH (2 OR MORE)
- SIGNS 14 IS TO BE MOUNTED ABOVE TYPE III BARRICADE

FILE NAME =	USER NAME = mdyja	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC DETOUR</b>	F.A.P. RTE. 112	SECTION M-BDR-1	COUNTY WILL	TOTAL SHEETS 66	SHEET NO. 6
CONTRACT NO. 62714	ILLINOIS FED. AID PROJECT									

15 BARRELS @ 25' CTS IN TANGENT  
 @ 10' CTS IN TAPER



**LEGEND**

- BARREL W/STEADY BURNING LIGHT
- ⌌ TYPE III BARRICADE W/2 STEADY BURN LIGHTS EACH (2 OR MORE)
- ⌌ SIGN PANEL
- SIGNS 14 IS TO BE MOUNTED ABOVE TYPE III BARRICADE

**DETAIL C**

FILE NAME =  
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USER NAME = mddyje  
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 PLOT DATE = 7/8/2011

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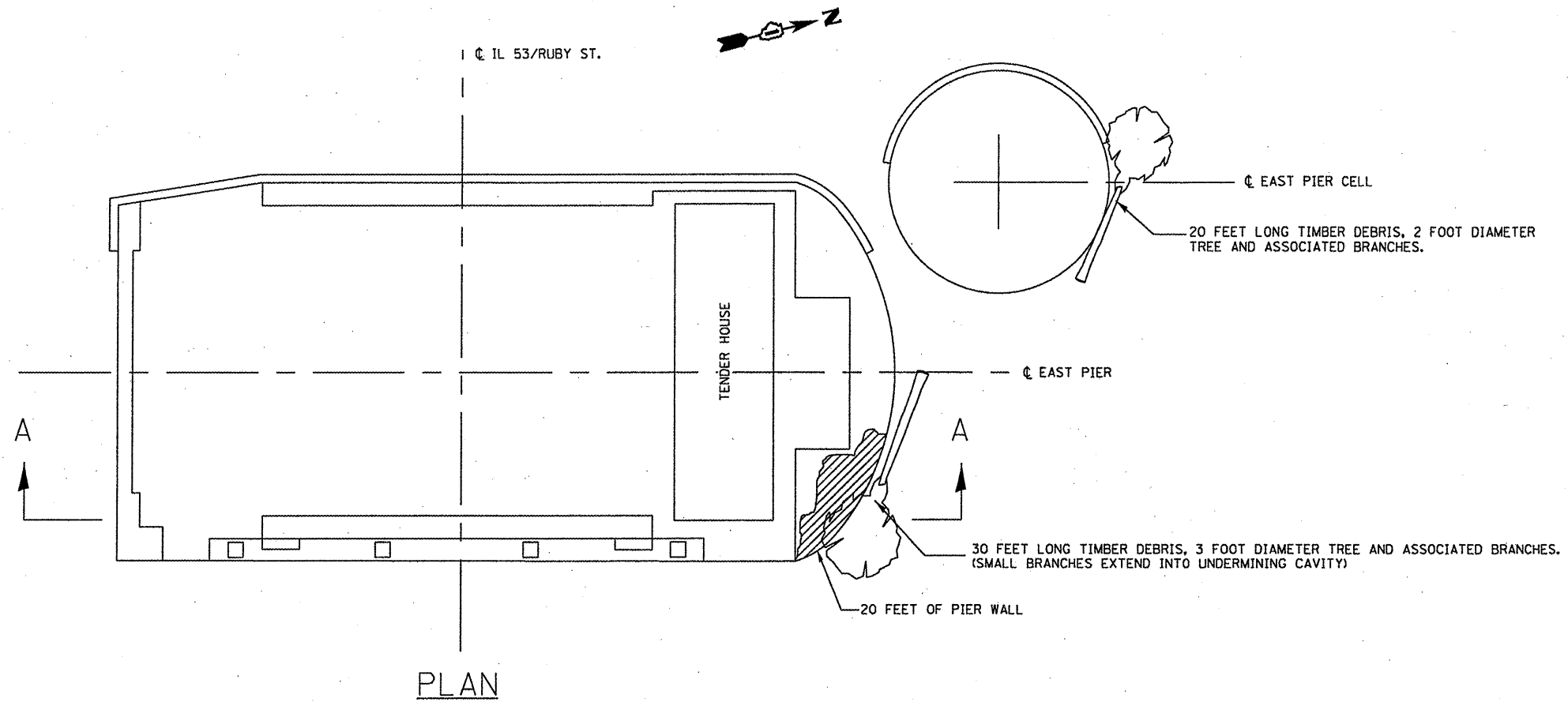
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

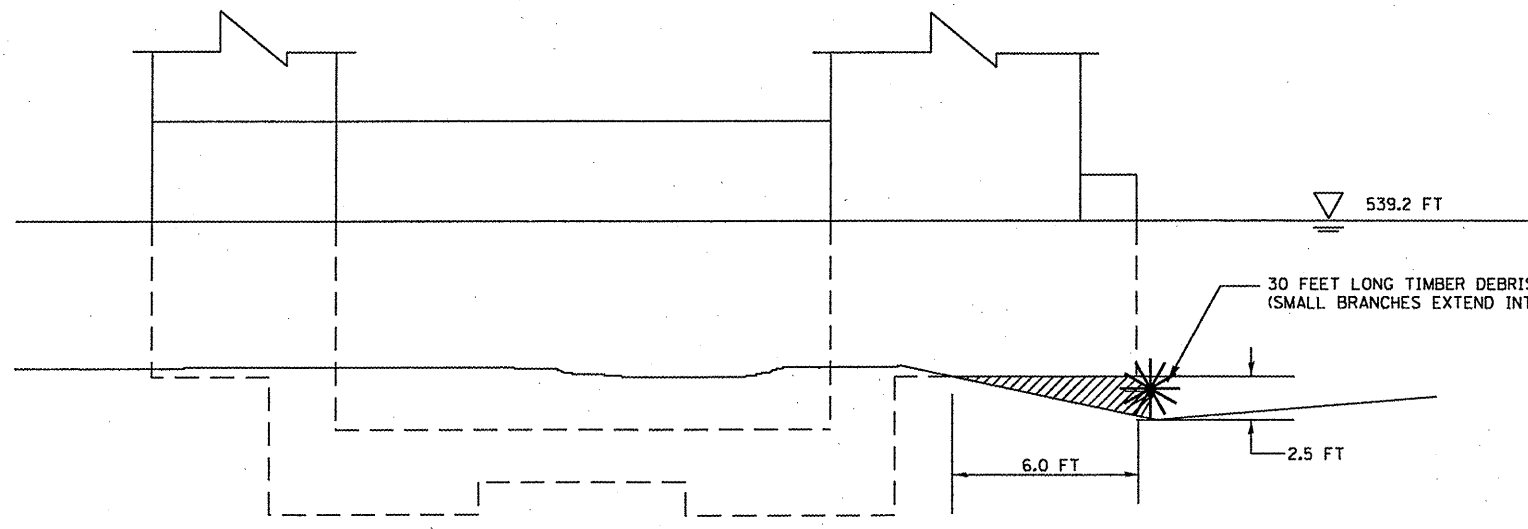
**TRAFFIC DETOUR**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	M-BDR-1	WILL	66	7
<b>CONTRACT NO. 62714</b>				
ILLINOIS FED. AID PROJECT				



PLAN



SECTION A-A

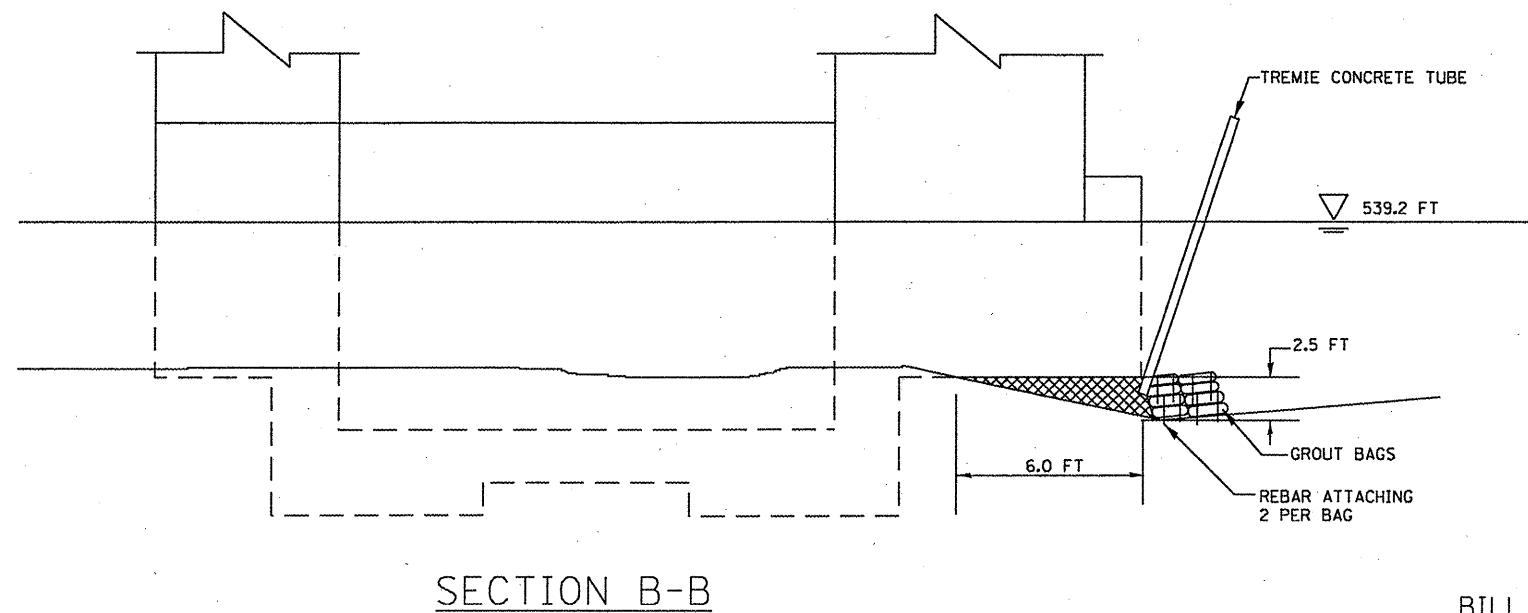
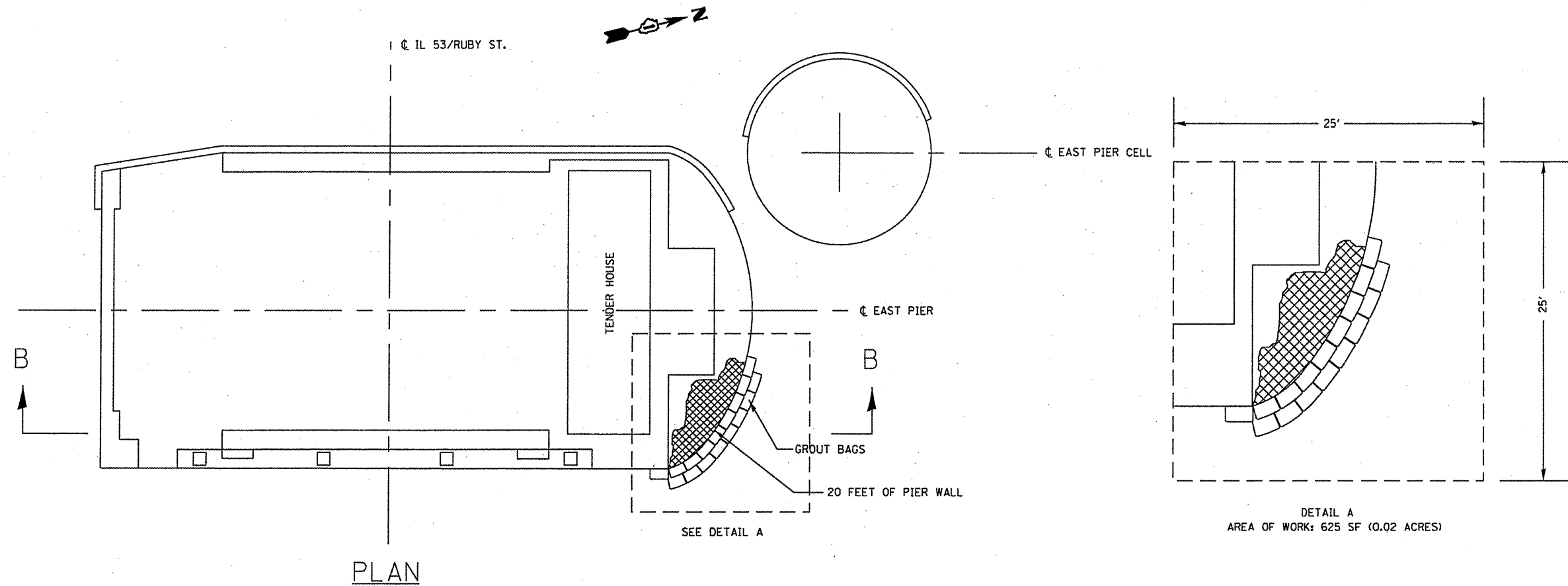
UNDERMINED AREA


NOTES:  
 CONTRACTOR WILL HAVE THE OPTION TO DO WORK FROM EITHER THE BRIDGE OR A BARGE.  
 CONTRACTOR WILL NOT BE ALLOWED TO DO ANY EXCAVATION AT THE WORK AREA

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
DEBRIS REMOVAL	CU YD	40





 UNDERMINED AREA TO BE FILLED WITH TREMIE CONCRETE

**NOTES:**

CONTRACTOR WILL HAVE THE OPTION TO DO WORK FROM EITHER THE BRIDGE OR A BARGE.

CONTRACTOR WILL NOT BE ALLOWED TO DO ANY EXCAVATION AT THE WORK AREA

PLACE GROUT BAGS TO AN ELEVATION ABOVE THE BOTTOM OF THE FOOTING SUFFICIENT TO ACT AS FORM DURING PLACEMENT OF TREMIE CONCRETE

COST OF TREMIE CONCRETE INCLUDED IN THE COST OF SUBSTRUCTURE REPAIR (GROUT BAGS)

**BILL OF MATERIALS**

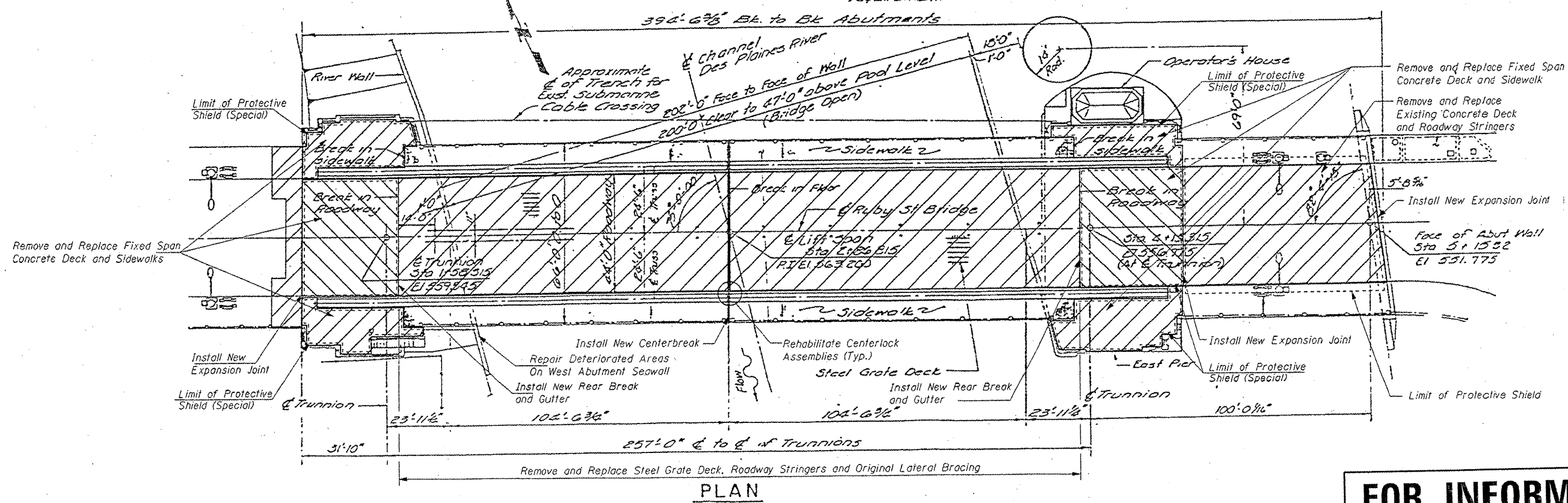
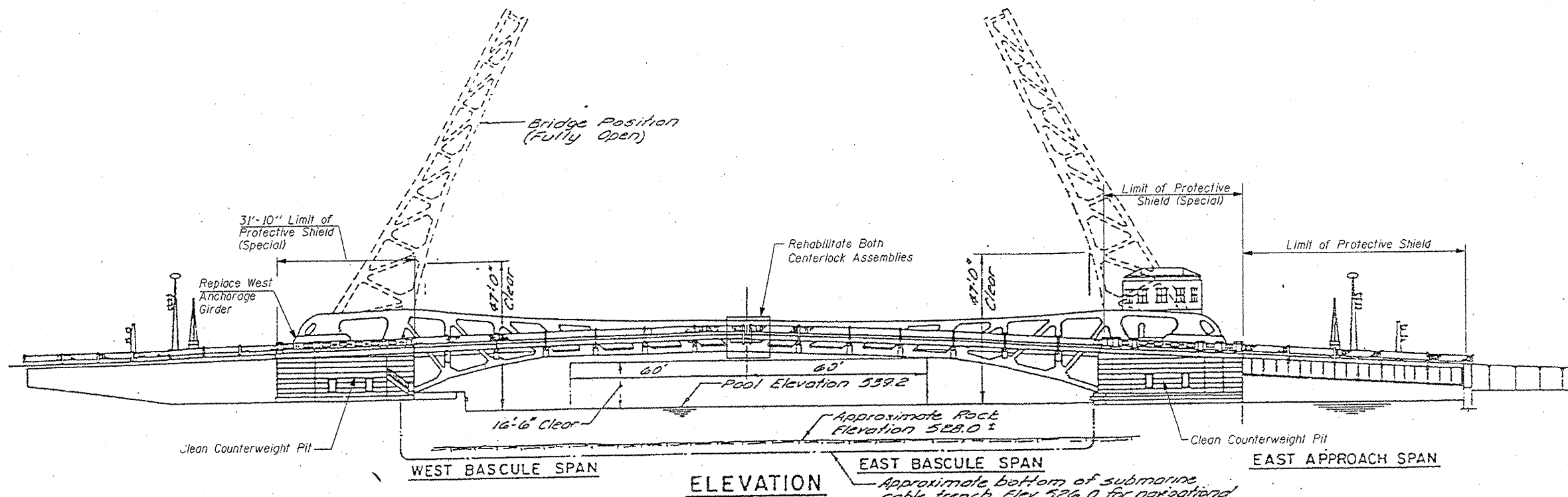
ITEM	UNIT	QUANTITY
SUBSTRUCTURE REPAIR (GROUT BAGS)	L SUM	1

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PLOT DATE = 7/8/2011	DATE -	REVISED -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCOUR REPAIRS</b>			
<b>RUBY ST OVER DES PLAINES RIVER</b>			
SCALE:	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	M-BDR-1	WILL	66	9
<b>CONTRACT NO. 62714</b>				
ILLINOIS FED. AID PROJECT				



**FOR INFORMATION ONLY**

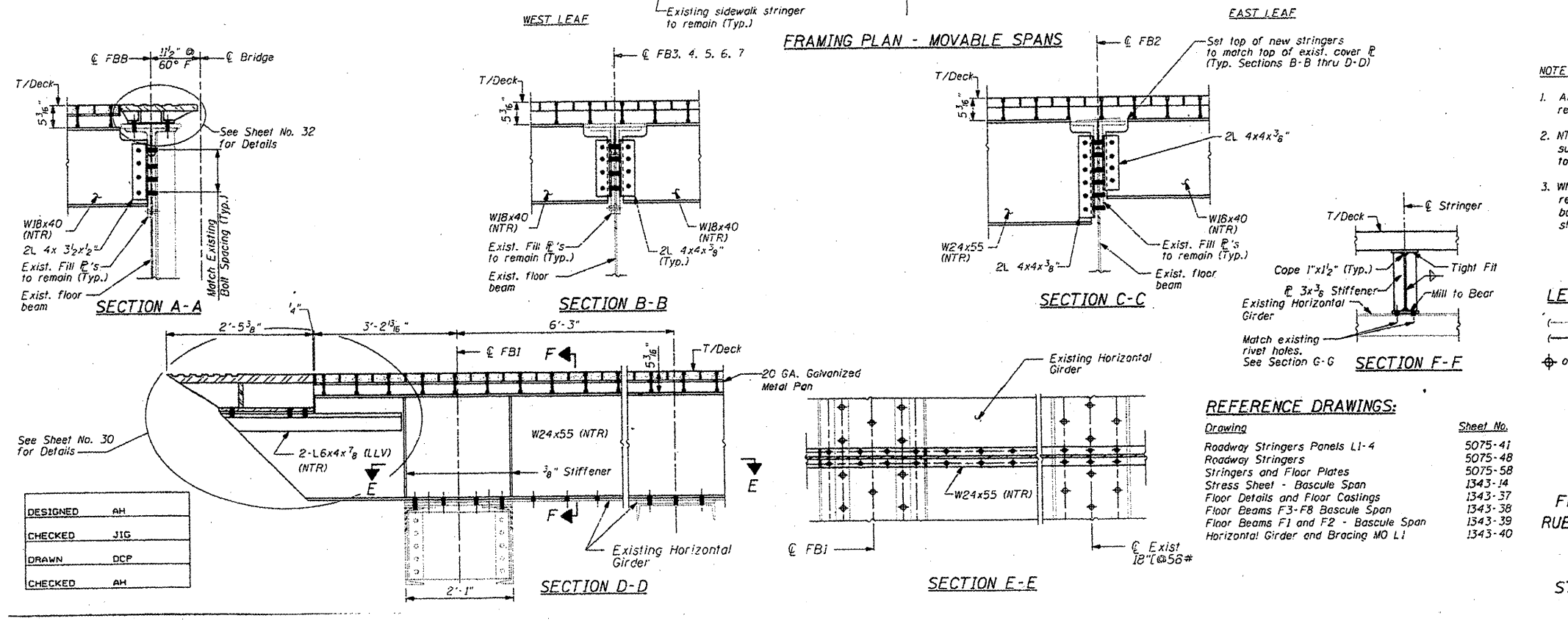
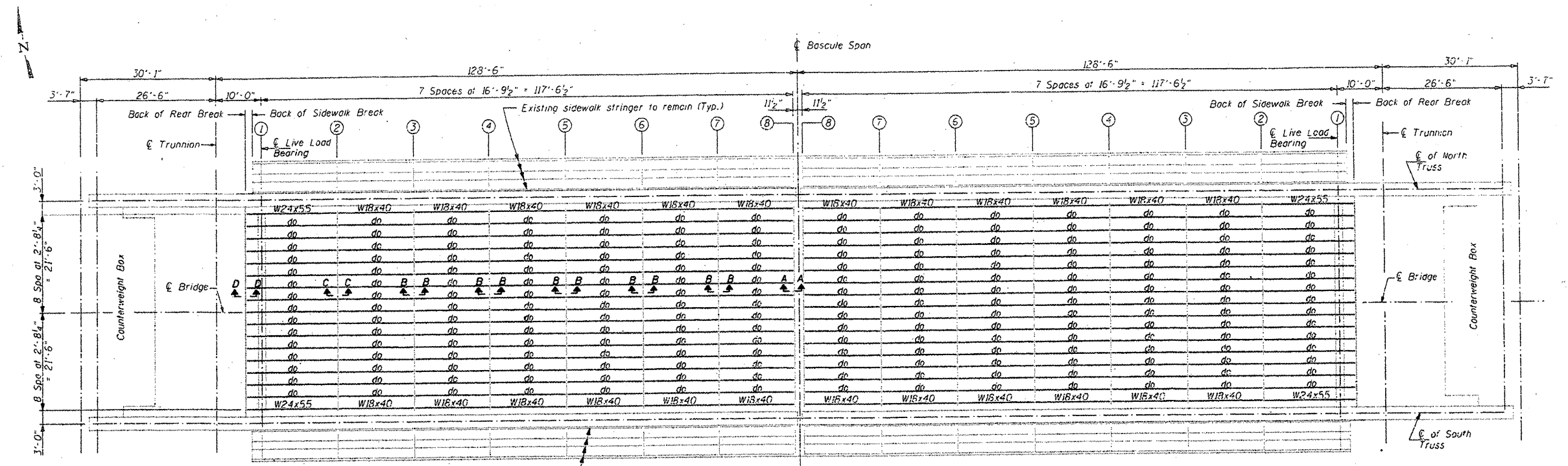
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	PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -
	PLOT DATE = 6/23/2011	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RUBY STREET OVER DES PLAINES RIVER  
SN 099-9901**

SCALE: SHEET NO. 1 OF 30 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	M-BDR-1	WILL	66	10
CONTRACT NO. 62714			ILLINOIS FED. AID PROJECT	



- NOTES:**
- All structural steel shall conform to the requirements of AASHTO W270, GR. 36.
  - NTR designates members subject to the supplemental requirement for notch toughness (Zone 2).
  - When required to completely remove and replace members, remove rivets and/or bolts and replace with 3/8" diameter high strength bolts, unless noted otherwise.

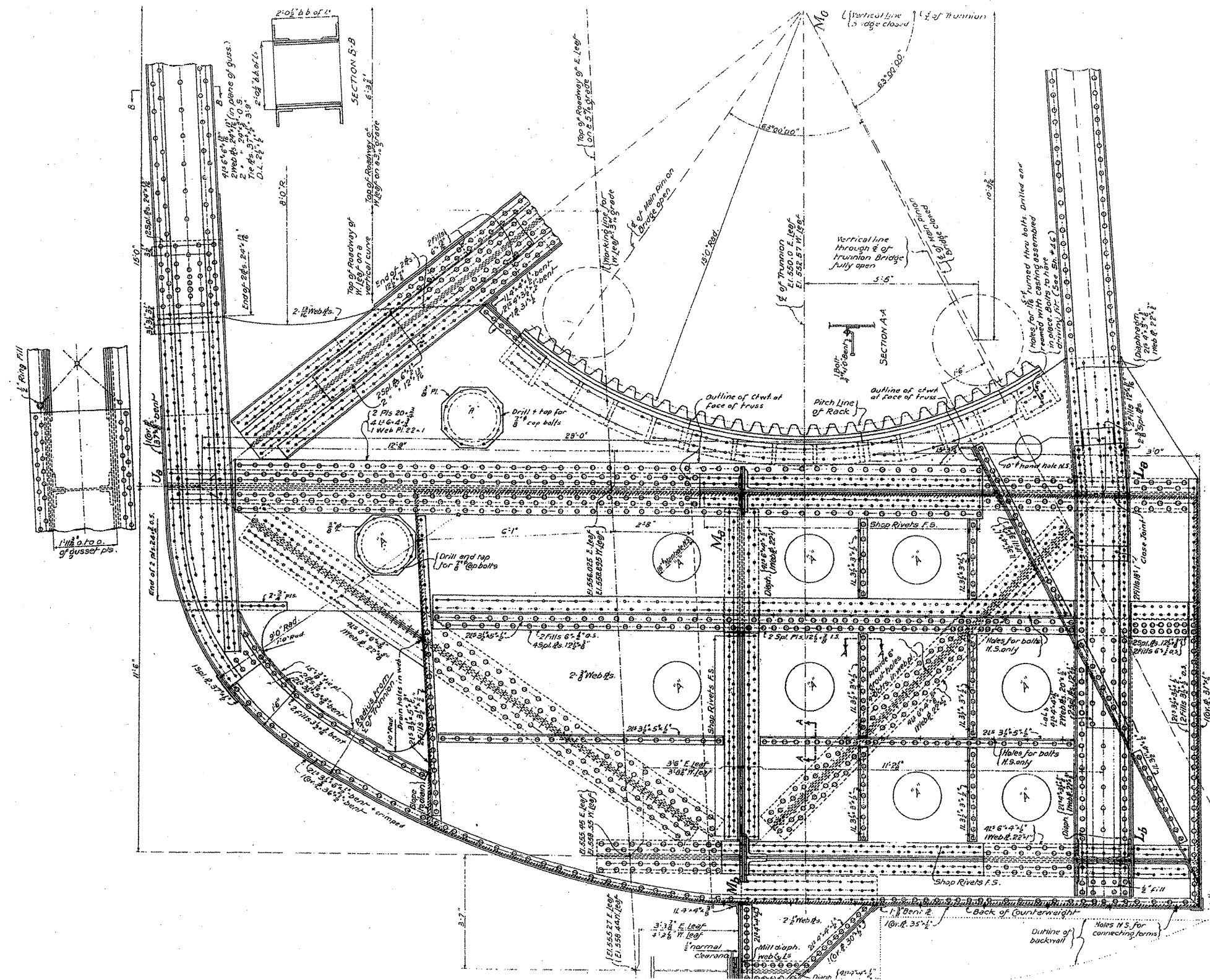
- LEGEND:**
- (---) Existing Member to Remain
  - (---) New Member
  - ⊕ or ⊕ Existing Rivet or Bolt to Remain
  - ◆ New Bolt in existing or new steel. Remove existing Rivet or Bolt and replace with new 3/8" H.S. Bolt, unless otherwise noted

- REFERENCE DRAWINGS:**
- | Drawing                              | Sheet No. |
|--------------------------------------|-----------|
| Roadway Stringers Panels L1-4        | 5075-41   |
| Roadway Stringers                    | 5075-48   |
| Stringers and Floor Plates           | 5075-58   |
| Stress Sheet - Bascule Span          | 1343-14   |
| Floor Details and Floor Castings     | 1343-37   |
| Floor Beams F3-F8 Bascule Span       | 1343-38   |
| Floor Beams F1 and F2 - Bascule Span | 1343-39   |
| Horizontal Girder and Bracing MO L1  | 1343-40   |

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CHECKED	JIG
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CHECKED	AH

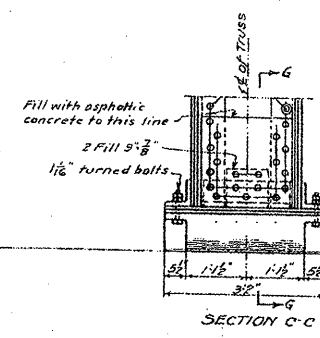
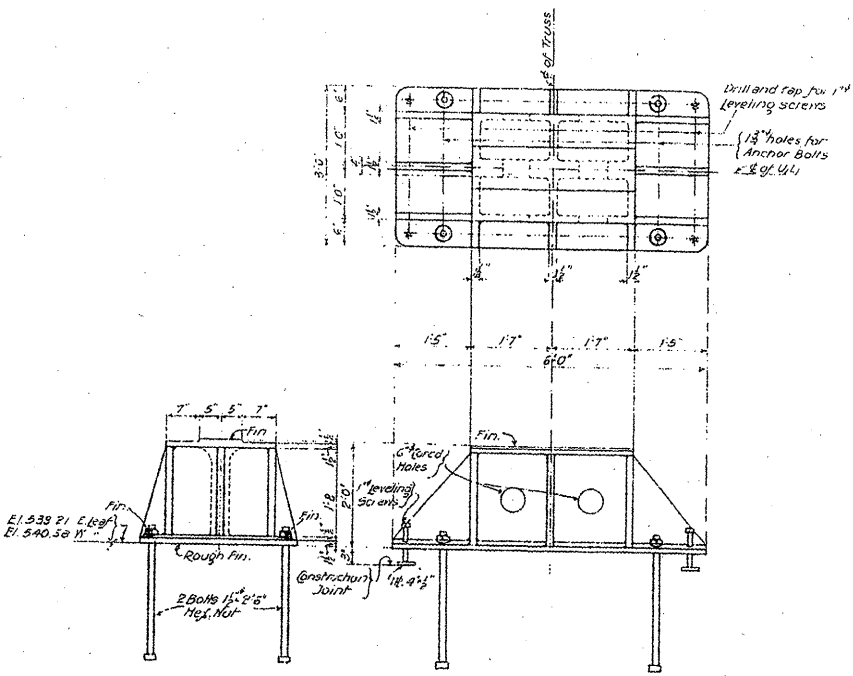
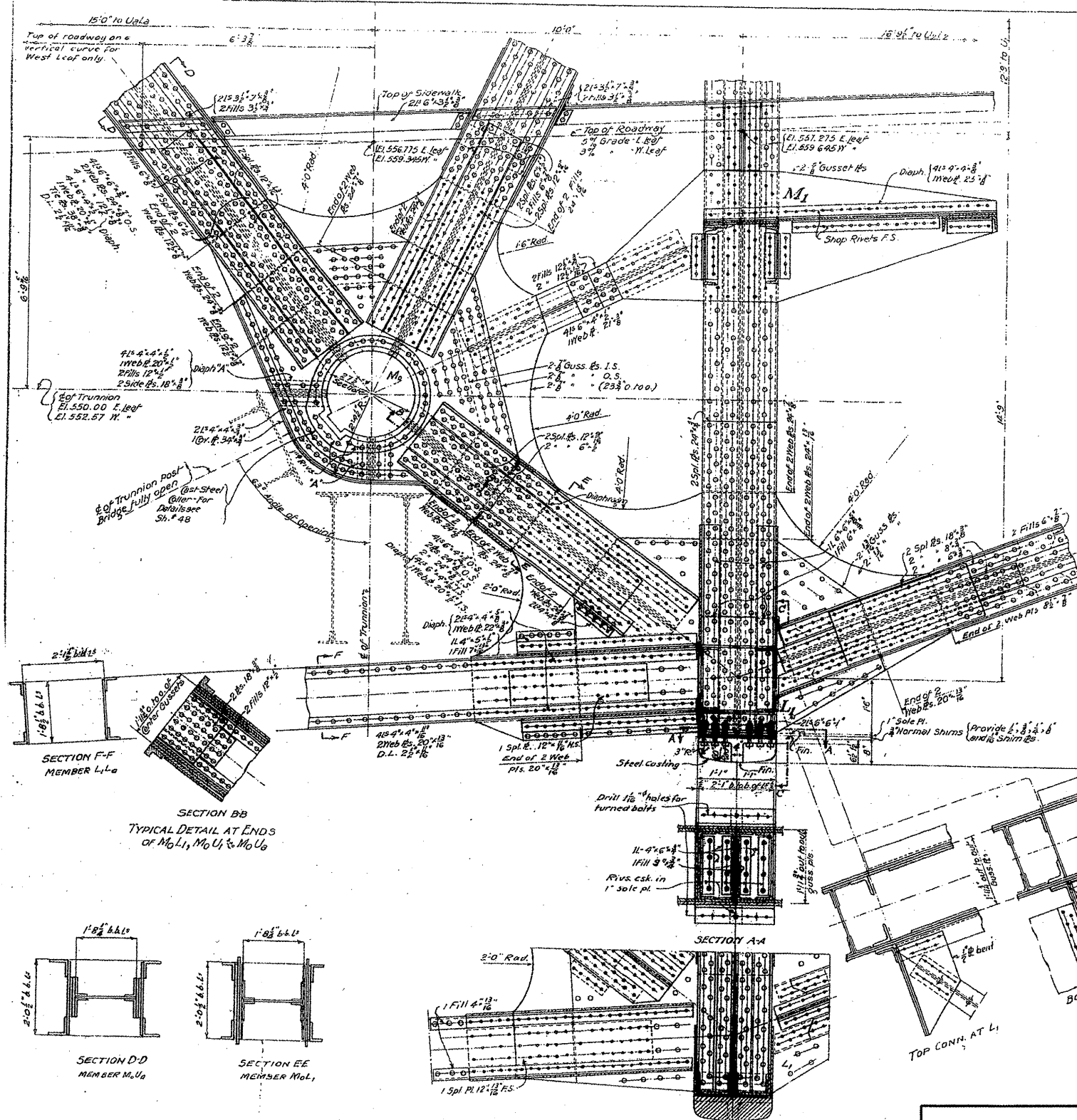
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FILE NAME =	USER NAME = mdyje	DESIGNED -	REVISD -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RUBY STREET OVER DES PLAINES RIVER SN 099-9901</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 1/32" = 1' / IN.	PLOT DATE = 6/26/2009	CHECKED -	REVISD -	SCALE:	SHEET NO. 2 OF 30 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
		DATE -	REVISD -					CONTRACT NO. 62714		



**FOR INFORMATION ONLY**

FILE NAME =	USER NAME = mdyj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RUBY STREET OVER DES PLAINES RIVER SN 099-9901</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
at:\p\work\PM100T\MIDYJA\48148931\dl1150	aa.dgn	DRAWN -	REVISED -			112	M-BDR-1	WILL	66	12	
PLOT SCALE = 1/8" = 1' IN.	PLOT DATE = 6/26/2009	CHECKED -	REVISED -			CONTRACT NO. 62714					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET NO. 3 OF 30 SHEETS		STA.	TO STA.		



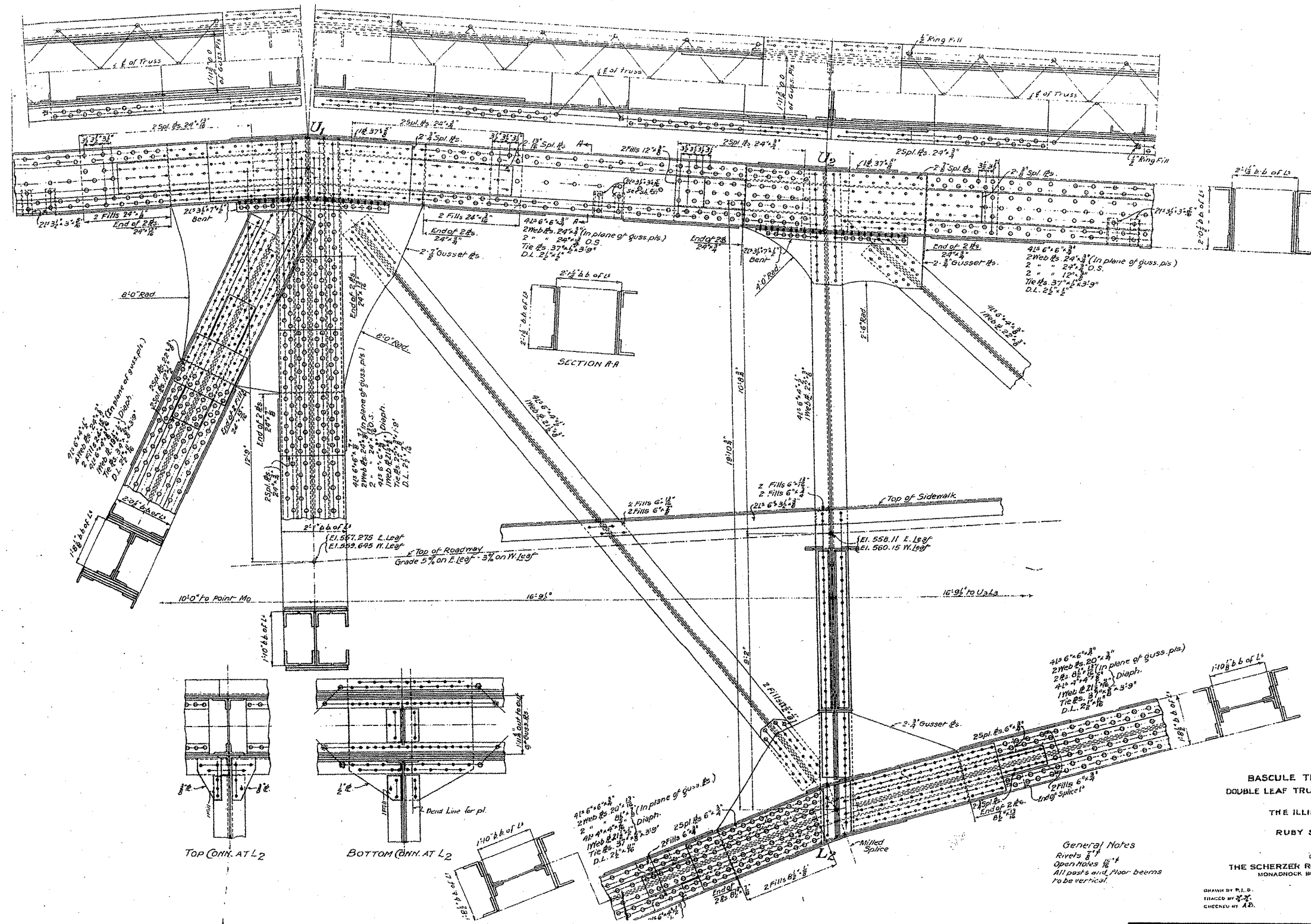
General Notes  
 Rivets 2" unless noted.  
 Open Holes 1/2" unless noted.  
 Bare holes for 271" trunnion  
 with collars riveted in place.  
 Trunnion to have high-driving  
 fit on web p.l.s. and diaphragms.

BASCULE TRUSSES - POINTS O & I  
 DOUBLE LEAF TRUNNION BASCULE BRIDGE  
 OVER  
 THE ILLINOIS WATERWAY  
 AT  
 RUBY ST. JOLIET ILL.

DESIGNED BY  
 THE SCHERZER ROLLING LIFT BRIDGE CO.  
 MONADNOCK BLOCK, CHICAGO, ILL.

**FOR INFORMATION ONLY**

FILE NAME =	USER NAME = midyjo	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RUBY STREET OVER DES PLAINES RIVER SN 099-9901</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cd:\pwwork\PWIDOT\MIDYJA\0148931\val1150	ee.dgn	DRAWN -	REVISED -		SCALE:	SHEET NO. 4 OF 30 SHEETS	STA.	TO STA.	112	M-BDR-1	WILL	66	13
		CHECKED -	REVISED -									CONTRACT NO. 62714	
		DATE -	REVISED -									ILLINOIS FED. AID PROJECT	



BASCULE TRUSSES-POINTS 152  
 DOUBLE LEAF TRUNNION BASCULE BRIDGE  
 OVER  
 THE ILLINOIS WATERWAY  
 AT  
 RUBY ST. JOLIET, ILL.

DESIGNED BY  
 THE SCHERZER ROLLING LIFT BRIDGE CO.  
 MONADNOCK BLOCK CHICAGO, ILL.

DRAWN BY P.L.D.  
 TRACED BY J.C.  
 CHECKED BY J.D.

SCALE: 1/4"=1'-0"  
 DATE: MARCH 30, 1939

**FOR INFORMATION ONLY**

FILE NAME =  
 c:\pwwork\pwwdot\midyja\d0148931\d11150

USER NAME = midyja  
 PLOT SCALE = 1/83.1218" / IN.  
 PLOT DATE = 6/26/2009

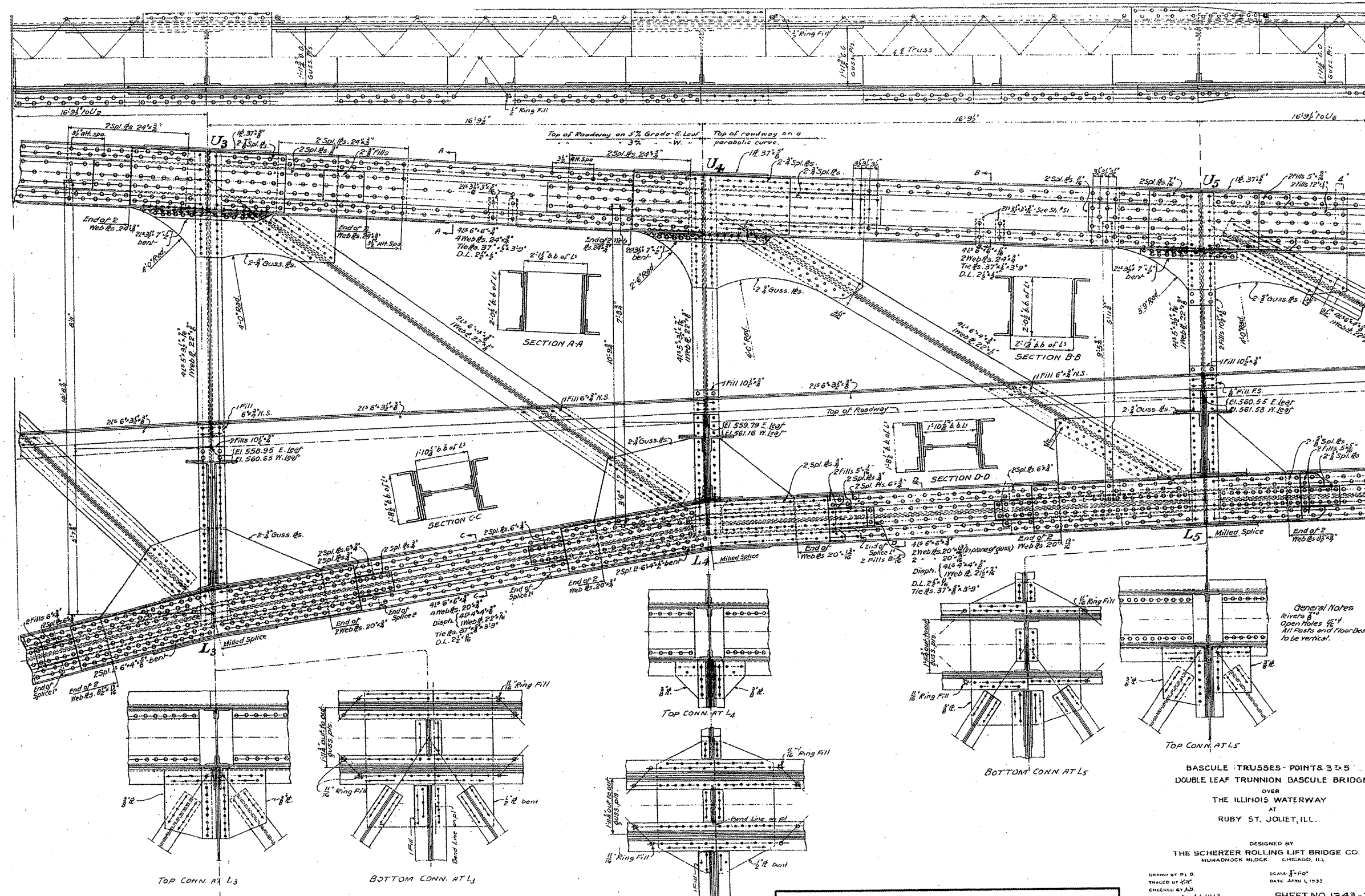
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER  
 SN 099-9901

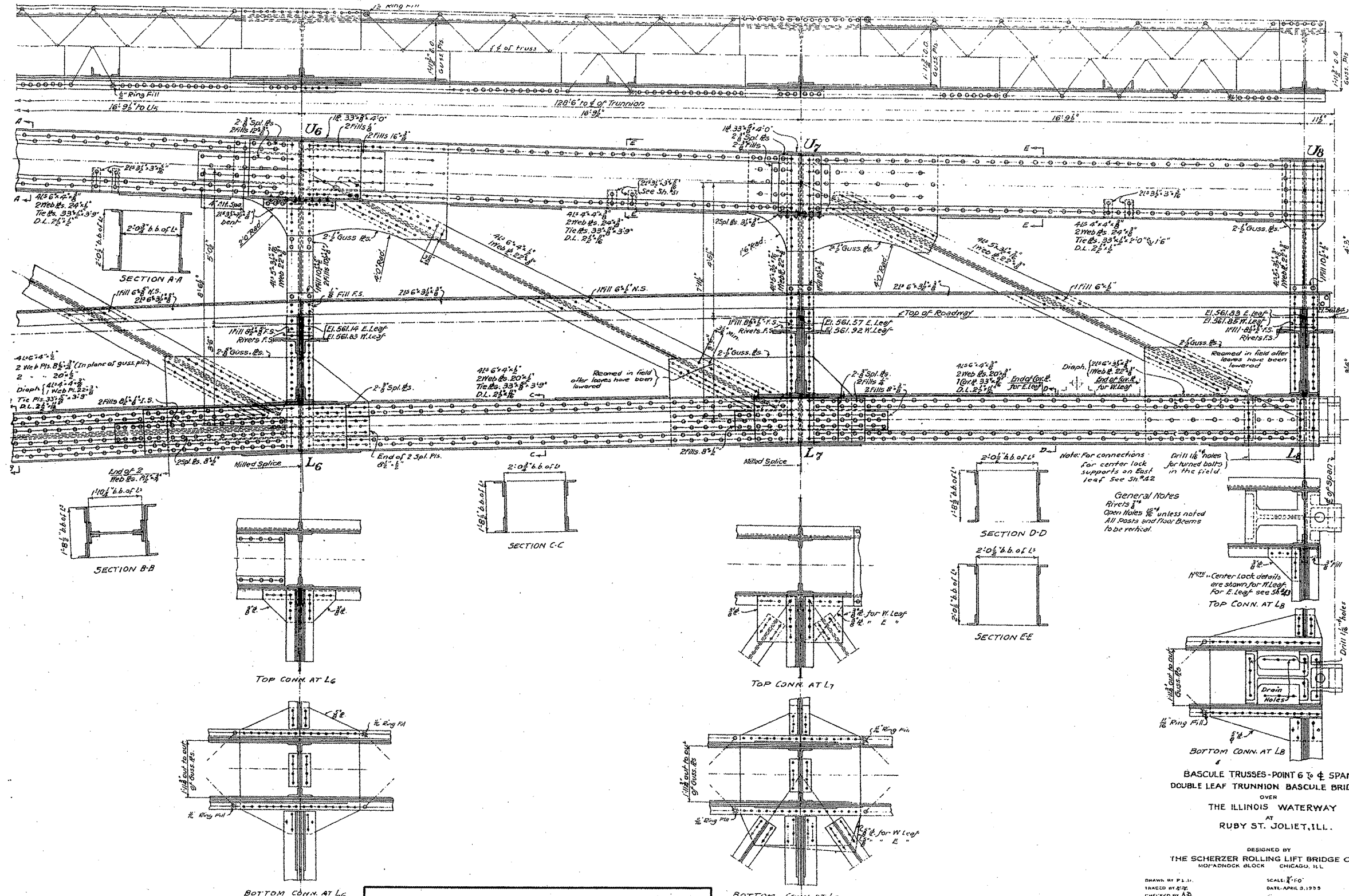
SCALE: SHEET NO. 5 OF 30 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	M-BDR-1	WILL	66	14
CONTRACT NO. 62714				
ILLINOIS FED. AID PROJECT				



**FOR INFORMATION ONLY**

FILE NAME : c:\pwork\PWIDOT\MIDYJA\0148931\d111500.ee.dgn	USER NAME : midyje	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RUBY STREET OVER DES PLAINES RIVER SN 099-9901</b>		F.A.P. RTE. 112	SECTION M-BDR-1	COUNTY WILL	TOTAL SHEETS 66	SHEET NO. 15
PLOT SCALE : 1/8"=1'-0" / IN.	PLOT DATE : 6/26/2009	DRAWN -	REVISED -		SCALE:	SHEET NO. 6 OF 30 SHEETS	STA.	CONTRACT NO. 62714		ILLINOIS FED. AID PROJECT	
		CHECKED -	REVISED -								
		DATE -	REVISED -								



**General Notes**  
 Rivets  $\frac{1}{2}$ "  
 Open Holes  $\frac{1}{2}$ " unless noted  
 All Posts and Floor Beams  
 to be riveted.

Note: For connections  
 for center lock  
 supports on East  
 leaf see 3h\*42

Drill  $\frac{1}{8}$ " holes  
 for turned bolts  
 in the field

Reamed in field  
 after layers have been  
 lowered

Reamed in field after  
 leaves have been  
 lowered

Diaph. (Web & 20")  
 End of Leaf  
 for E Leaf

Drill  $\frac{1}{8}$ " holes  
 in the field for  
 turned bolts

TOP CONN. AT L6  
 TOP CONN. AT L7  
 TOP CONN. AT L8

BOTTOM CONN. AT L6  
 BOTTOM CONN. AT L7

**BASCULE TRUSSES-POINT 6 TO 4 SPAN  
 DOUBLE LEAF TRUNNION BASCULE BRIDGE  
 OVER  
 THE ILLINOIS WATERWAY  
 AT  
 RUBY ST. JOLIET, ILL.**

DESIGNED BY  
**THE SCHERZER ROLLING LIFT BRIDGE CO.  
 HOPKINSON BLOCK CHICAGO, ILL.**

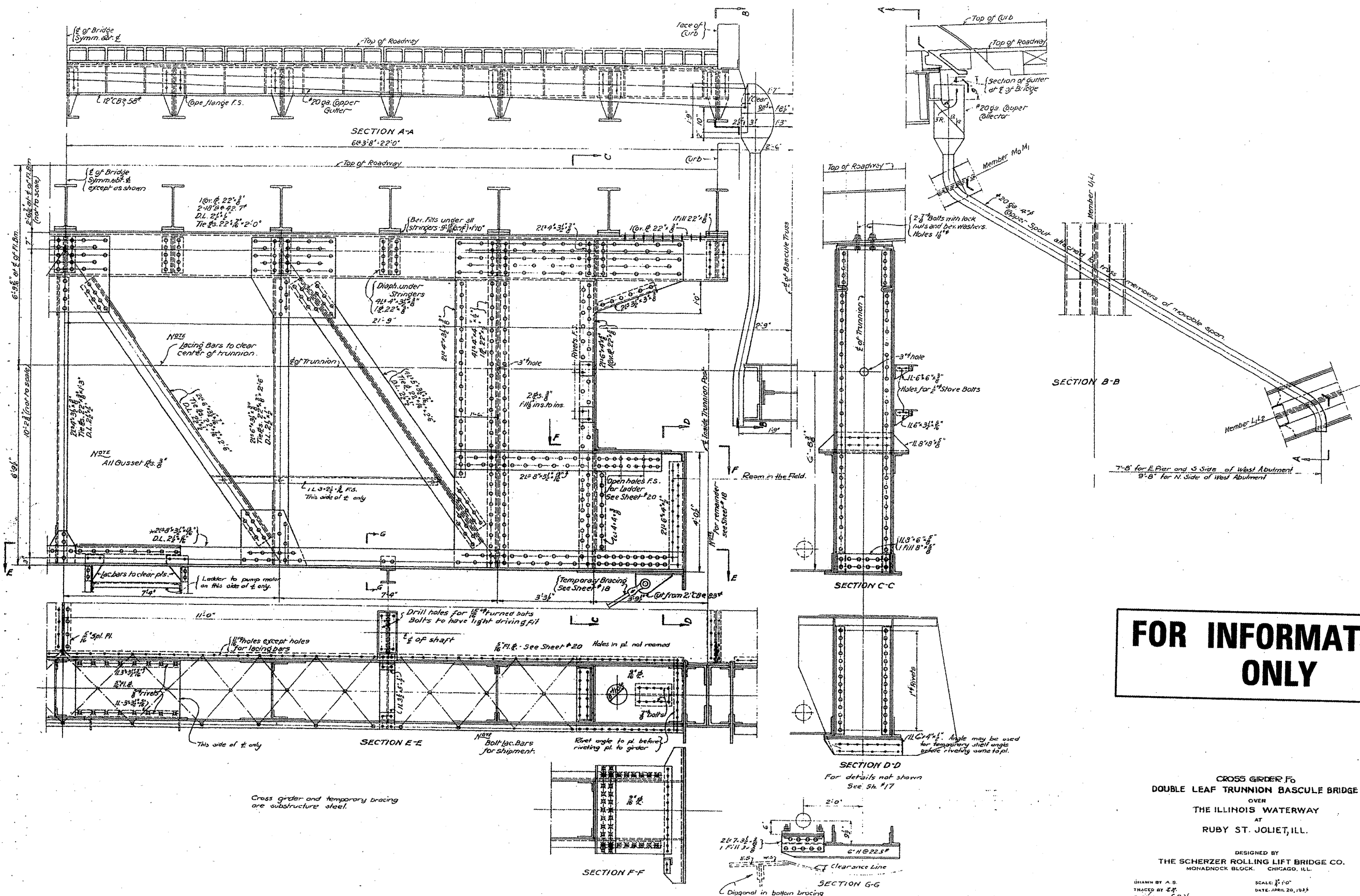
SCALE:  $\frac{1}{4}$ " = 1'-0"  
 DATE: APRIL 3, 1935

FILED BY P.J.H.  
 TRACED BY S.P.F.  
 CHECKED BY A.D.  
 REVISED 5 APR 6, 1933

**FOR INFORMATION  
 ONLY**

FILE NAME =	USER NAME = midyja	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>RUBY STREET OVER DES PLAINES RIVER          SN 099-9901</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwi\d007\MIDYJA\d0148931\d11150	ea.dgn	DRAWN -	REVISED -		SCALE:	SHEET NO. 7 OF 30 SHEETS	STA.	112	M-BDR-1	WILL	66	16
PLOT SCALE = 1/8" = 1'-0"		CHECKED -	REVISED -				TO STA.					
PLOT DATE = 6/26/2009		DATE -	REVISED -									
												CONTRACT NO. 62714
											ILLINOIS FED. AID PROJECT	





FILE NAME =  
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USER NAME = mdyja  
aa.dgn  
PLOT SCALE = 1/8" = 1'-0"  
PLOT DATE = 6/26/2009

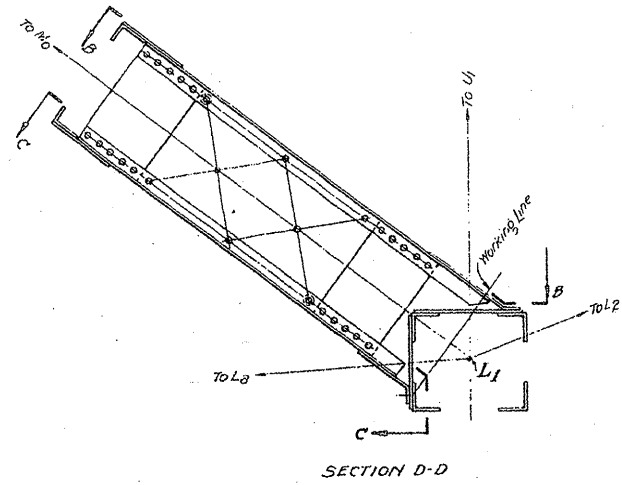
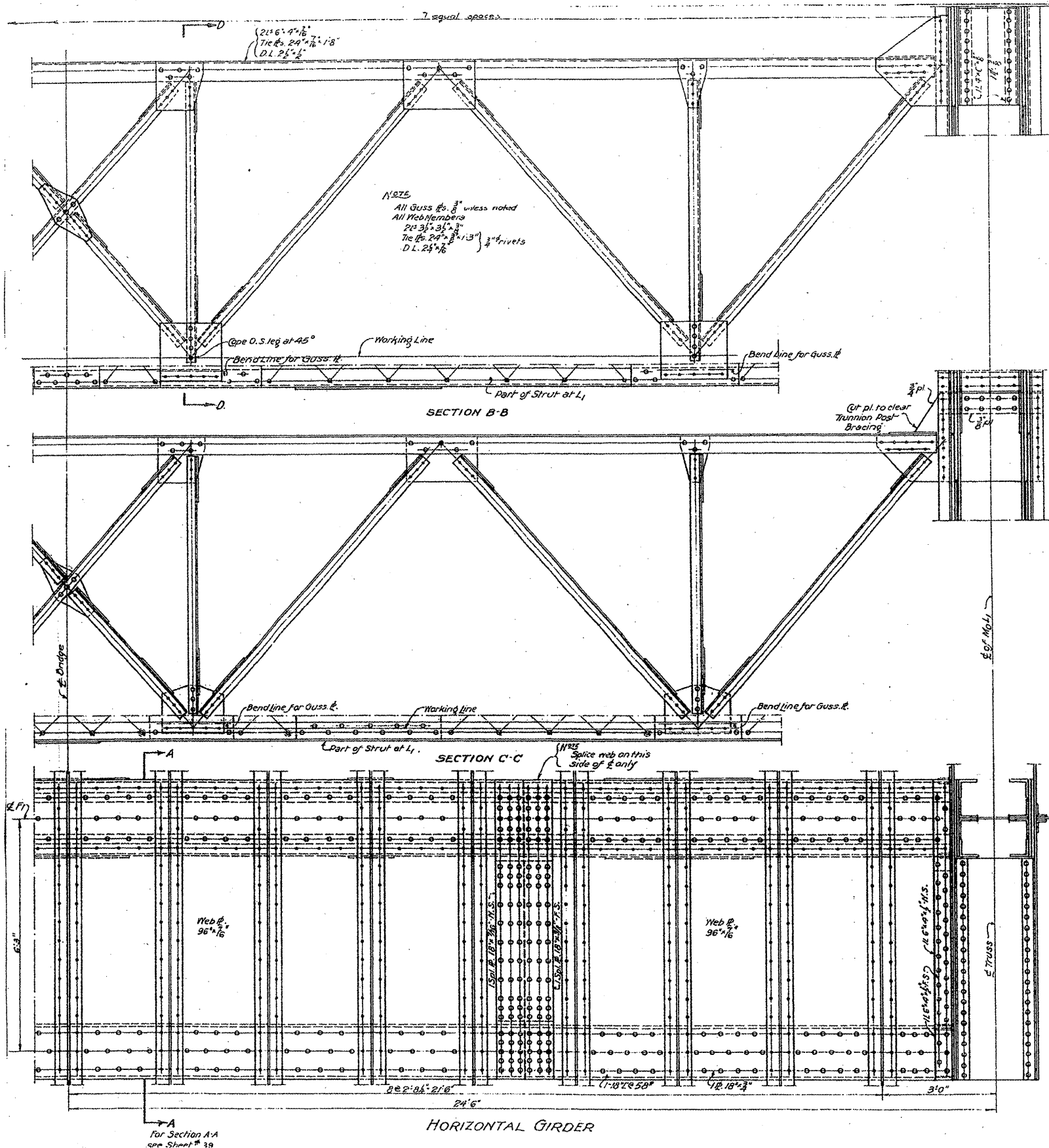
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER  
SN 099-9901

SCALE: SHEET NO. 8 OF 30 SHEETS STA. TO STA.

F.A.P. RTE. 112	SECTION M-BDR-1	COUNTY WILL	TOTAL SHEETS 66	SHEET NO. 27
			CONTRACT NO. 62714	
ILLINOIS FED. AID PROJECT				



General Notes  
 Rivets 3/8" unless noted  
 Open holes 1/2" unless noted  
 For reaming of holes see specifications.

**FOR INFORMATION ONLY**

HORIZONTAL GIRDER  
 AND  
 BRACING M<sub>0</sub>L<sub>1</sub>  
 DOUBLE LEAF TRUNNION BASCULE BRIDGE  
 OVER  
 THE ILLINOIS WATERWAY  
 AT  
 RUBY ST., JOLIET, ILL.

DESIGNED BY  
 THE SCHERZER ROLLING LIFT BRIDGE CO.  
 MONADNOCK BLOCK CHICAGO, ILL.

DRAWN BY A.D.  
 TRACED BY G.C.

SCALE: 3/8" = 1'-0"  
 DATE: APRIL 20, 1928

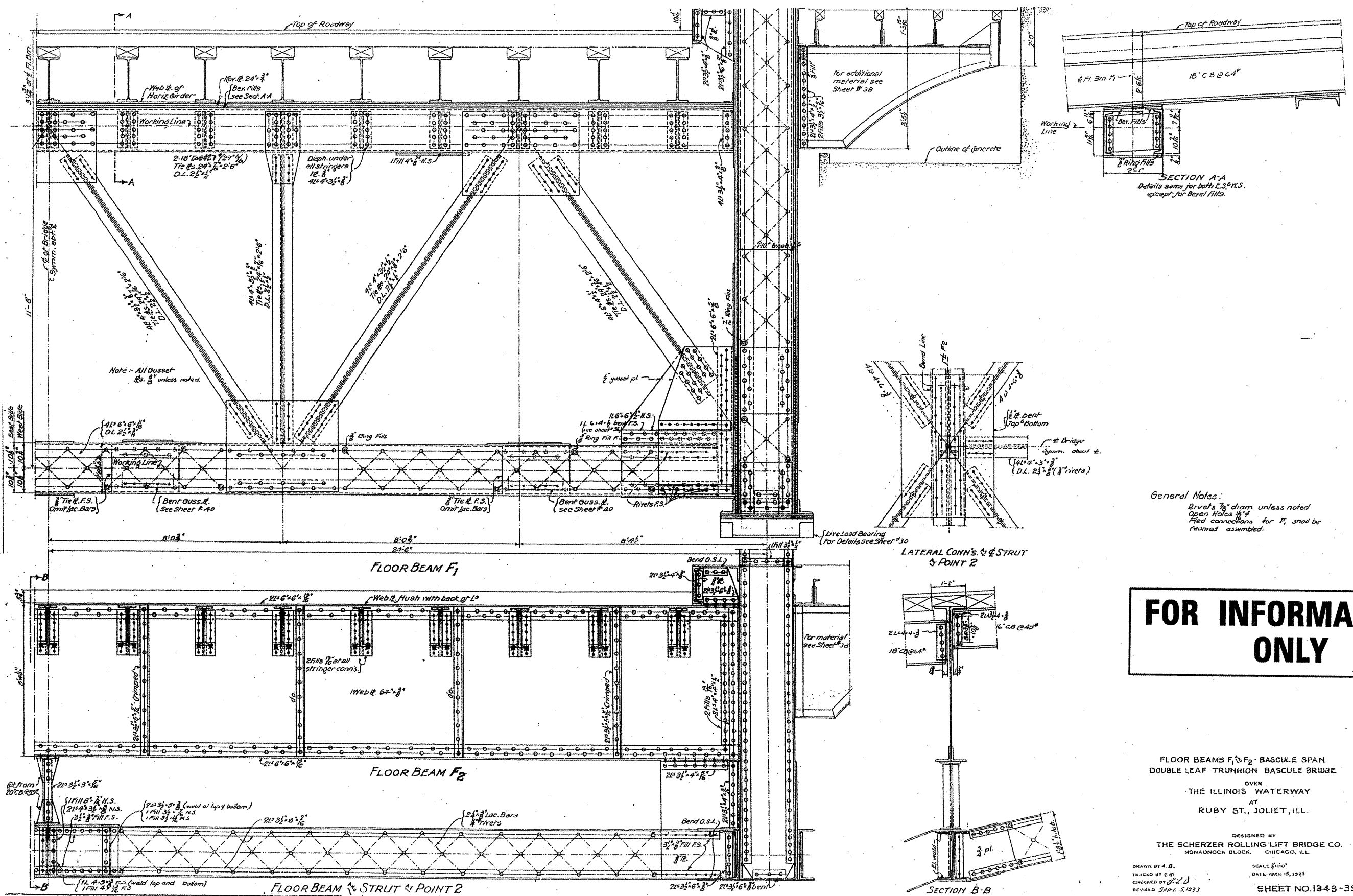
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ea.dgn		DRAWN -	REVISED -
PLOT SCALE = 1/32" = 1' / IN.		CHECKED -	REVISED -
PLOT DATE = 6/26/2009		DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER  
 SN 099-9901

SCALE: SHEET NO. 9 OF 30 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	M-BDR-1	WILL	66	18
			CONTRACT NO. 62714	
ILLINOIS FED. AID PROJECT				



**FOR INFORMATION ONLY**

FLOOR BEAMS F<sub>1</sub> & F<sub>2</sub> - BASCULE SPAN  
 DOUBLE LEAF TRUNNION BASCULE BRIDGE  
 OVER  
 THE ILLINOIS WATERWAY  
 AT  
 RUBY ST., JOLIET, ILL.

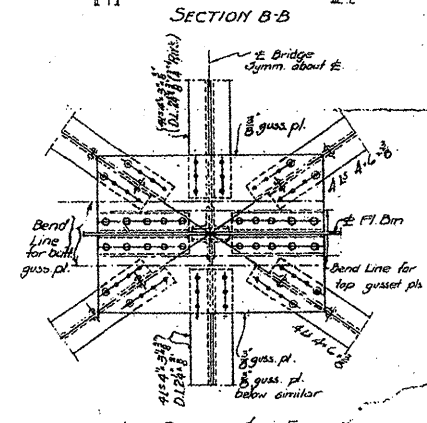
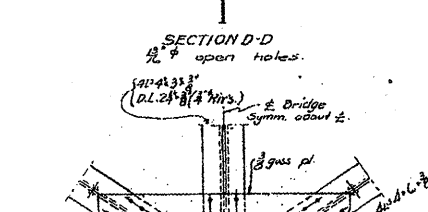
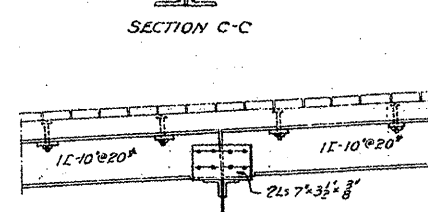
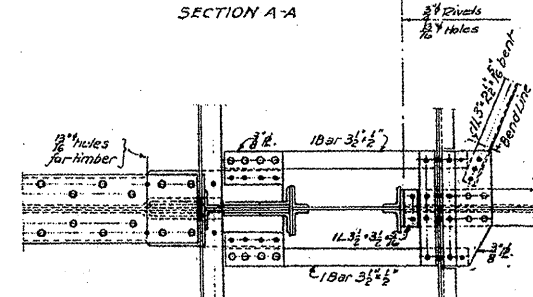
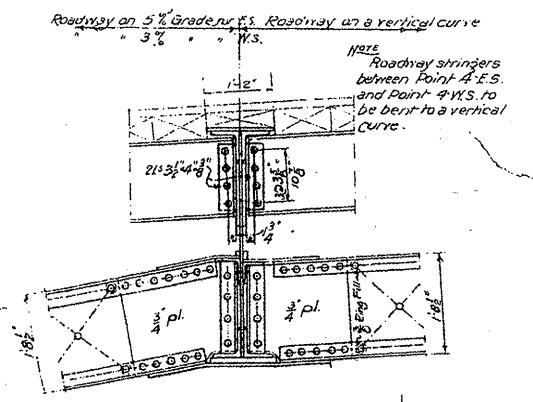
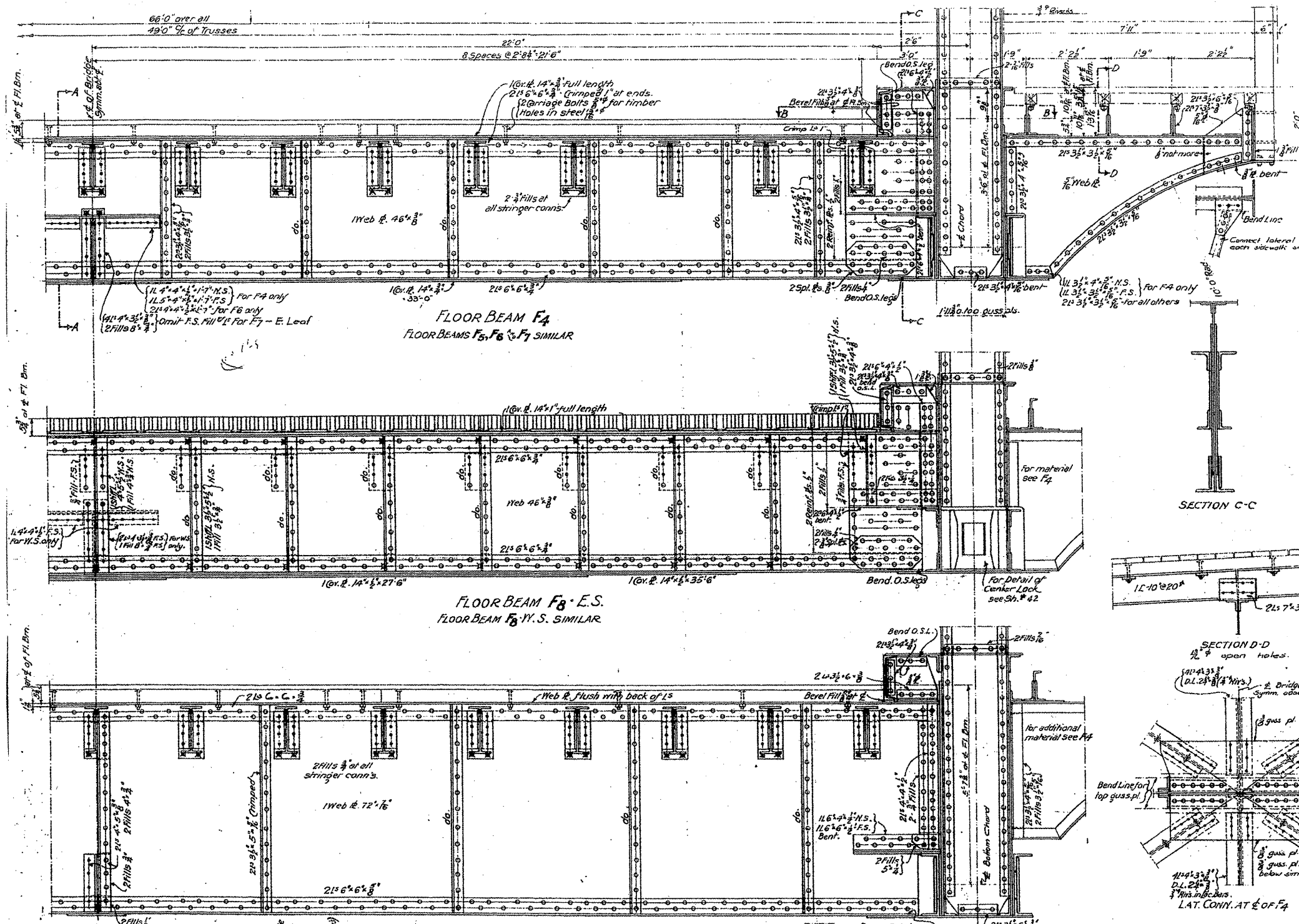
DESIGNED BY  
 THE SCHERZER ROLLING-LIFT BRIDGE CO.  
 MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY A. B.  
 CHECKED BY J. D.  
 REVISED Sept. 3, 1933

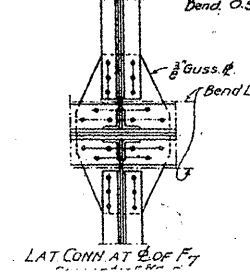
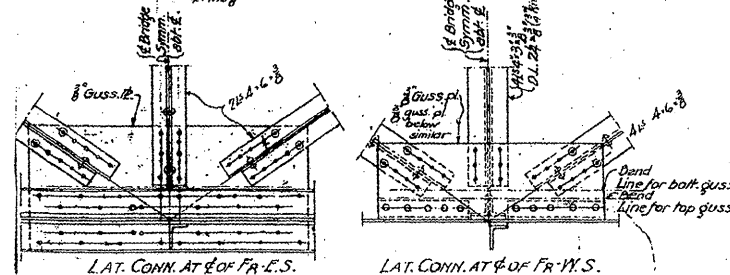
SCALE: 1/4" = 1'-0"  
 DATE: APRIL 15, 1933

SHEET NO. 1343-39

FILE NAME =	USER NAME = midjja	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RUBY STREET OVER DES PLAINES RIVER SN 099-9901</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cdp_wor\p\DOT\MIDYJA\0148931\dl1150	aa.dgn	DRAWN -	REVISED -			112	M-BDR-1	WILL	66	19	
PLOT SCALE = 1/8" = 1'-0"	PLOT DATE = 6/26/2009	CHECKED -	REVISED -			SCALE: SHEET NO. 10 OF 30 SHEETS STA. TO STA.		CONTRACT NO. 62714		ILLINOIS FED. AID PROJECT	
		DATE -	REVISED -								



**General Notes.**  
 Rivets 3/4" unless noted.  
 Open Holes 1/2" unless noted.  
 Gusset Pls. for bottom laterals to be warped in field where required.  
 Drill holes in lateral 1/2" of L4 Lg in the field after leaves have been lowered, except holes marked @.



**FOR INFORMATION ONLY**

FLOOR BEAMS F3 & F6 BASCULE SPAN  
 DOUBLE LEAF TRUNNION BASCULE BRIDGE  
 OVER  
 THE ILLINOIS WATERWAY  
 AT  
 RUBY ST. JOLIET, ILL.

DESIGNED BY  
 THE SCHERZER ROLLING LIFT BRIDGE CO.  
 MONROCK BLOCK, CHICAGO, ILL.  
 DRAWN BY A.L.R.3  
 TRACED BY M.S.  
 CHECKED BY A.D.  
 REVISIONS 5/29/12, 10/22/12  
 SCALE 3/4"=1'-0"  
 DATE APRIL 11, 1930  
 SHEET NO. 1343-38

FILE NAME =	USER NAME = midyjo
ea\pvt\work\PIW\DOT\MIDYJA\08148931\dl11150	ea.dgn
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PLOT DATE = 6/26/2009	

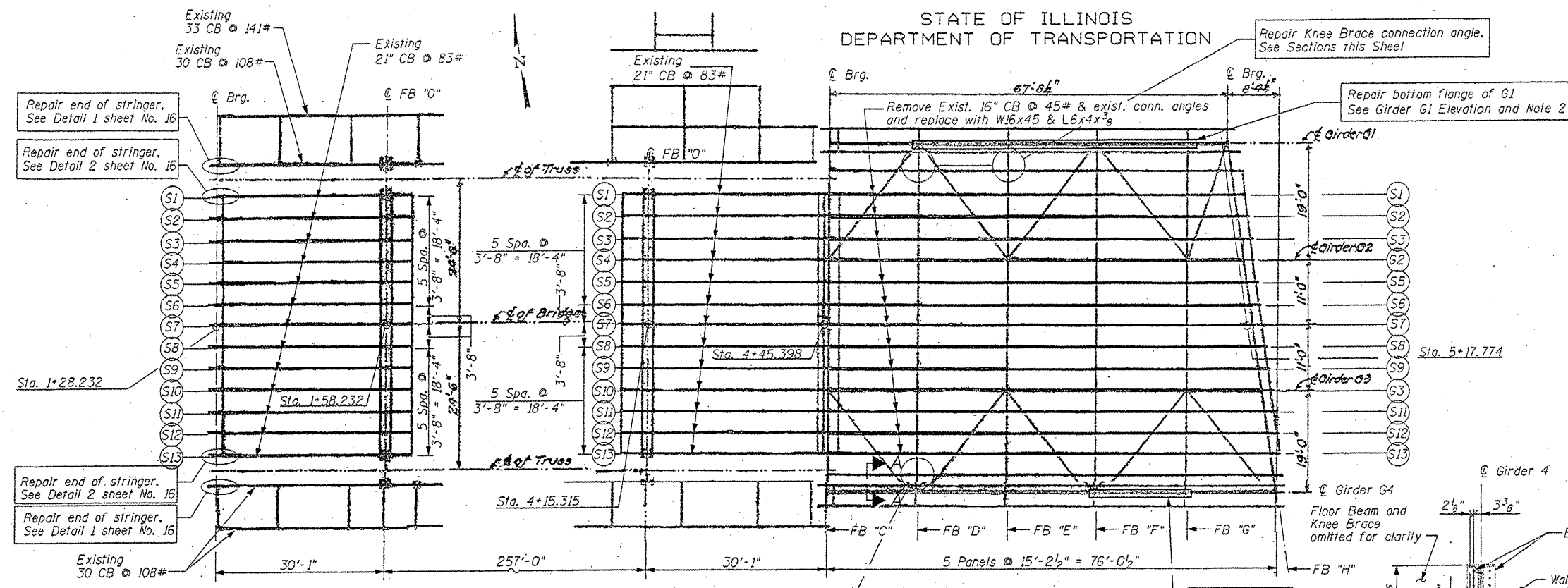
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER  
 SN 099-9901  
 SCALE: SHEET NO. 11 OF 30 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	M-BDR-1	WILL	66	20
			CONTRACT NO. 62714	
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

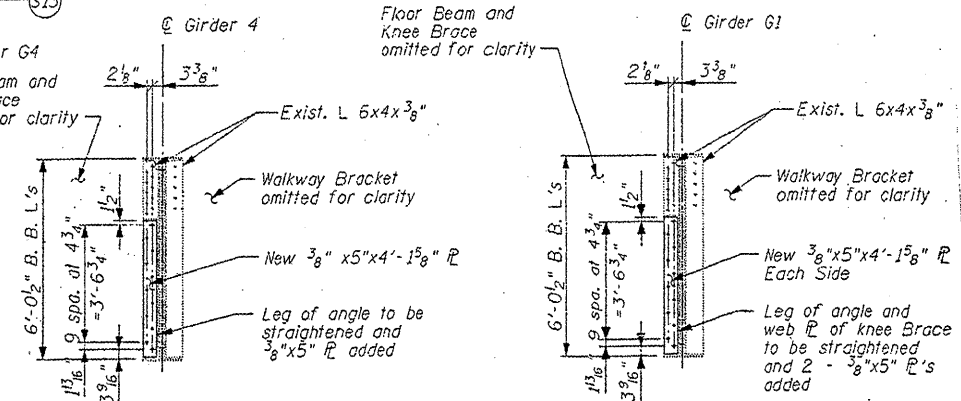


WEST FIXED SPAN

EAST FIXED SPAN

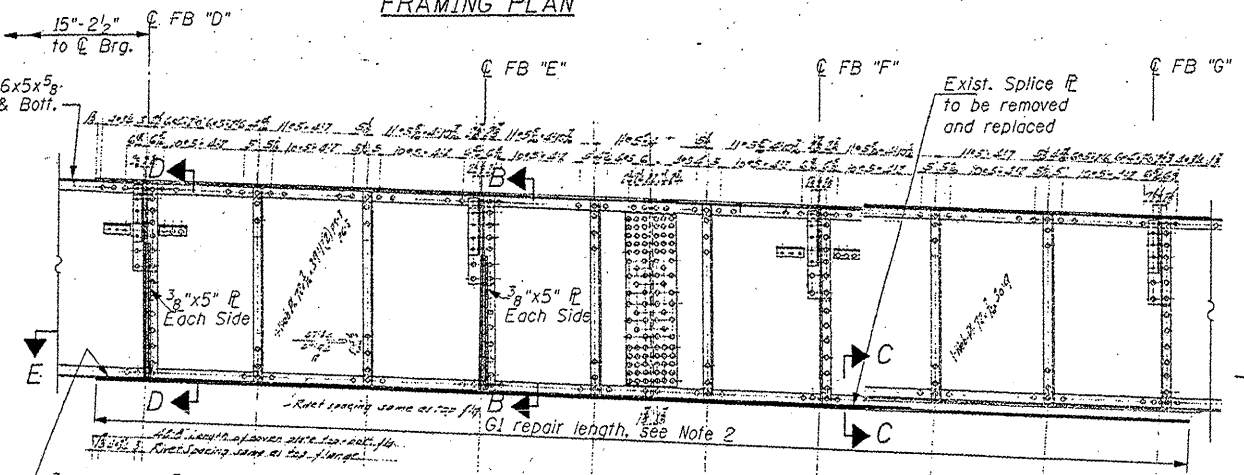
EAST APPROACH SPAN

FRAMING PLAN

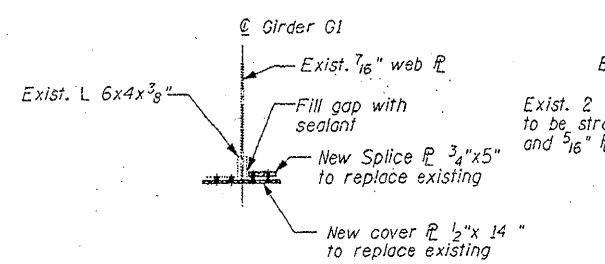


SECTION A-A

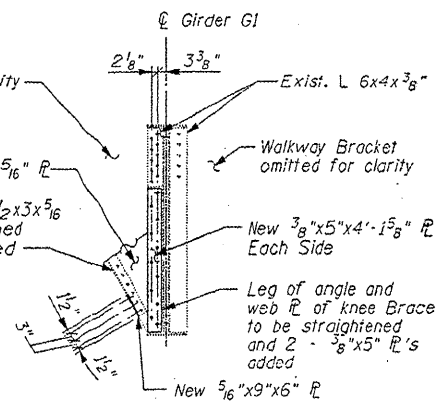
SECTION B-B



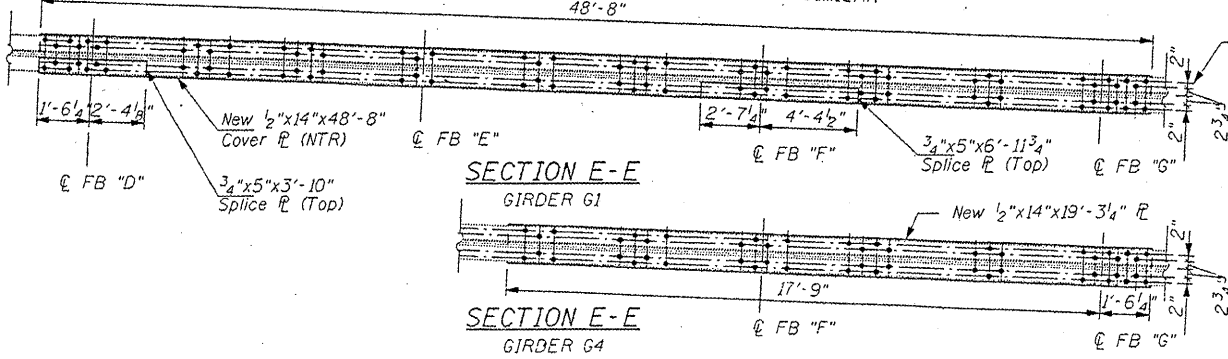
GIRDER G1 ELEVATION  
GIRDER G4 SIMILAR



SECTION C-C



SECTION D-D



SECTION E-E  
GIRDER G1

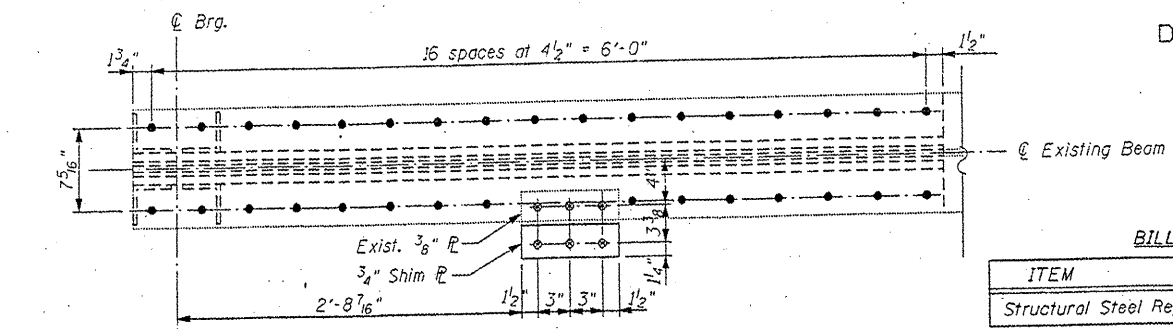
SECTION E-E  
GIRDER G4

**FOR INFORMATION ONLY**

EAST APPROACH & FIXED SPANS  
FRAMING PLAN & DETAILS  
RUBY STREET (F.A.P.112) OVER  
DES PLAINES RIVER  
WILL COUNTY  
STRUCTURE NUMBER 099-9901

FILE NAME =	USER NAME = midjje	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUBY STREET OVER DES PLAINES RIVER SN 099-9901		F.A.P. RTE. 112	SECTION M-BDR-1	COUNTY WILL	TOTAL SHEETS 66	SHEET NO. 21	
CONTRACT NO. 6214	PLT SCALE = 1/8" = 1'-0"	DRAWN -	REVISED -		SCALE:	SHEET NO. 12 OF 30 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			
	PLT DATE = 6/23/2011	CHECKED -	REVISED -									
		DATE -	REVISED -									

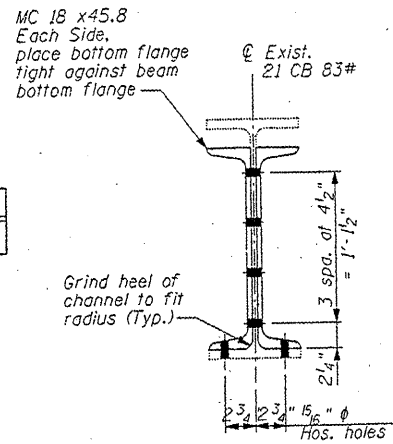
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



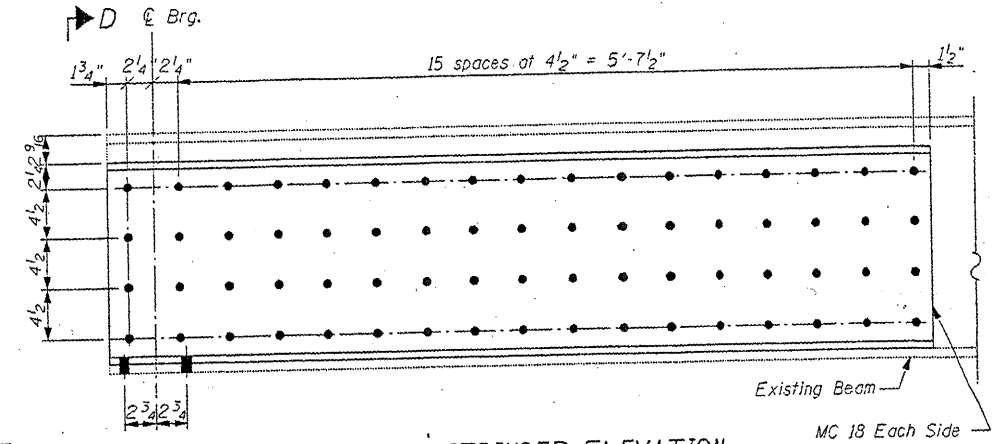
SECTION A-A

BILL OF MATERIAL

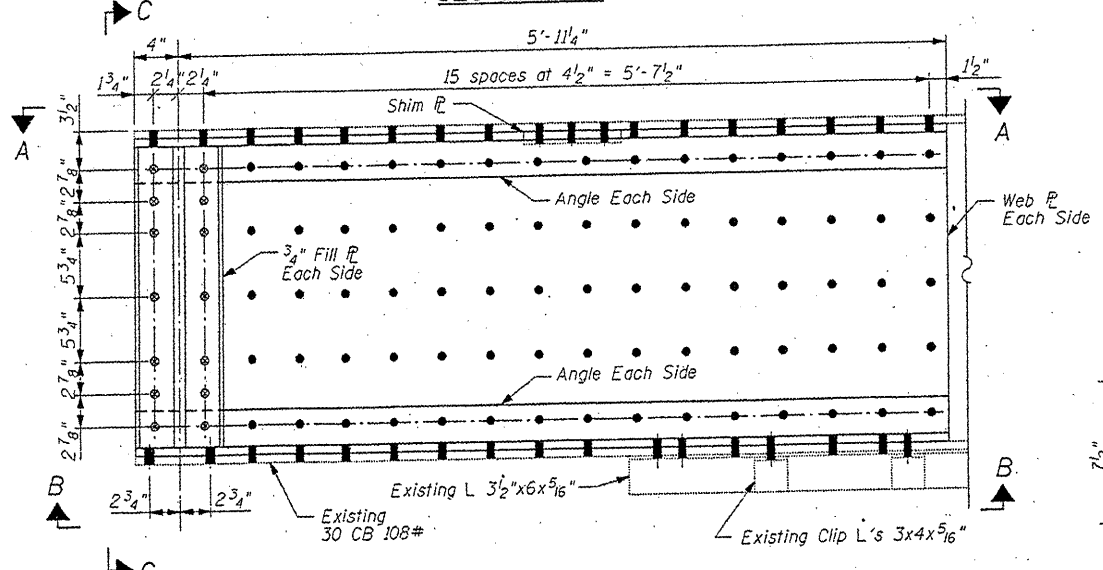
ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	3,340



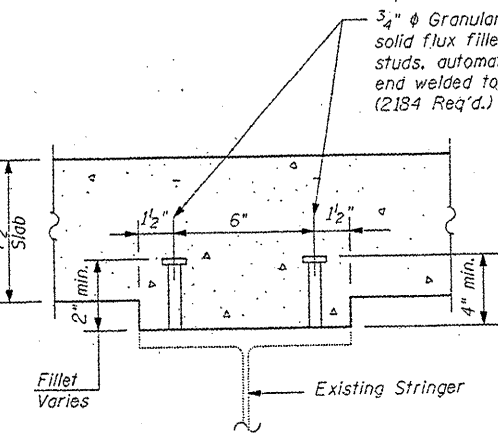
SECTION D-D



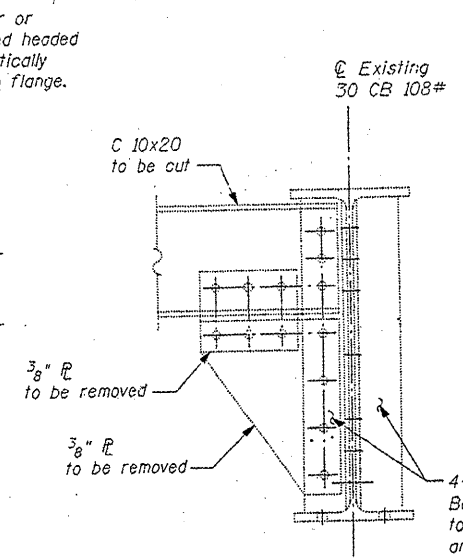
ROADWAY STRINGER ELEVATION  
DETAIL 2  
(WEST FIXED SPAN)



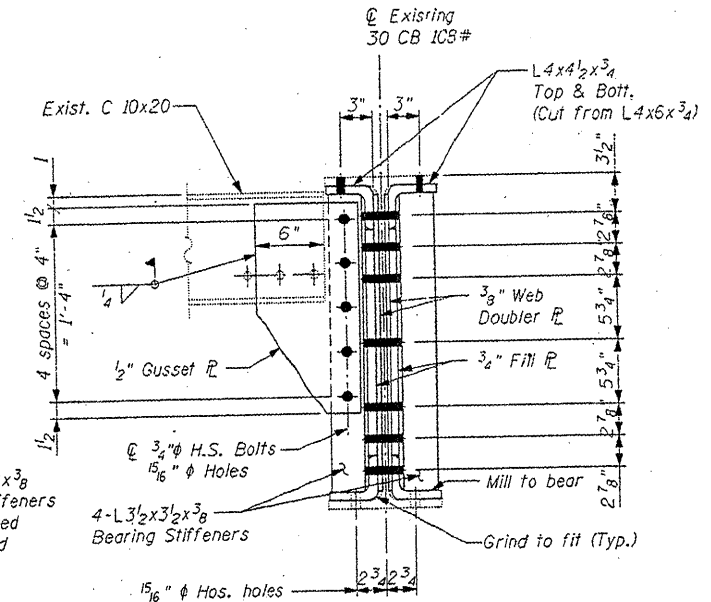
SIDEWALK STRINGER ELEVATION  
DETAIL 1  
(WEST FIXED SPAN)



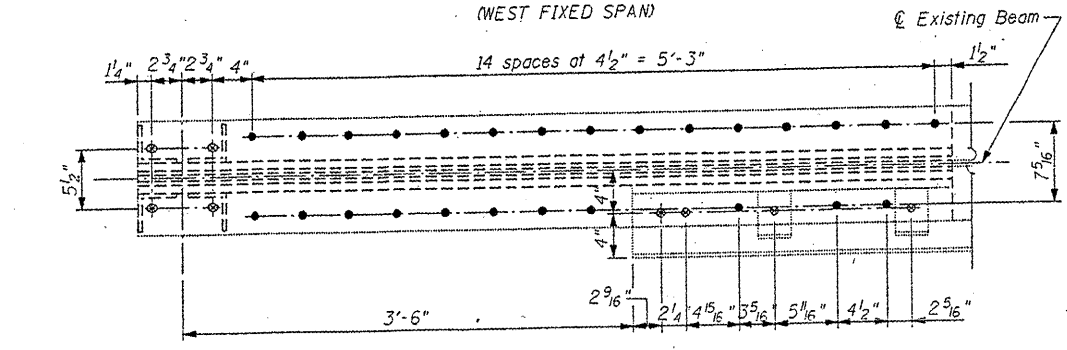
SECTION E-E



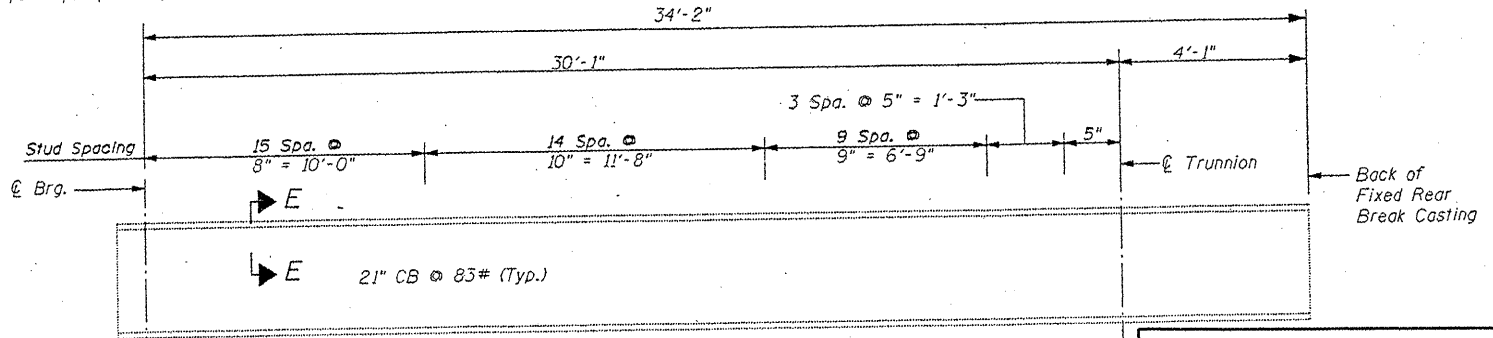
EXISTING STRINGER END SECTION



PROPOSED STRINGER END SECTION



SECTION B-B



STRINGER ELEVATION

(West fixed span shown, East fixed span opposite)

**FOR INFORMATION ONLY**

NOTE: Two hardened washers shall be required over all oversized holes.

REFERENCE DRAWINGS:

DRAWING WEST APPROACH BEAMS SHEET NO. 5075-53

FIXED SPANS  
FRAMING DETAILS  
RUBY STREET (F.A.P.112) OVER  
DES PLAINES RIVER  
WILL COUNTY  
STRUCTURE NUMBER 099-9901

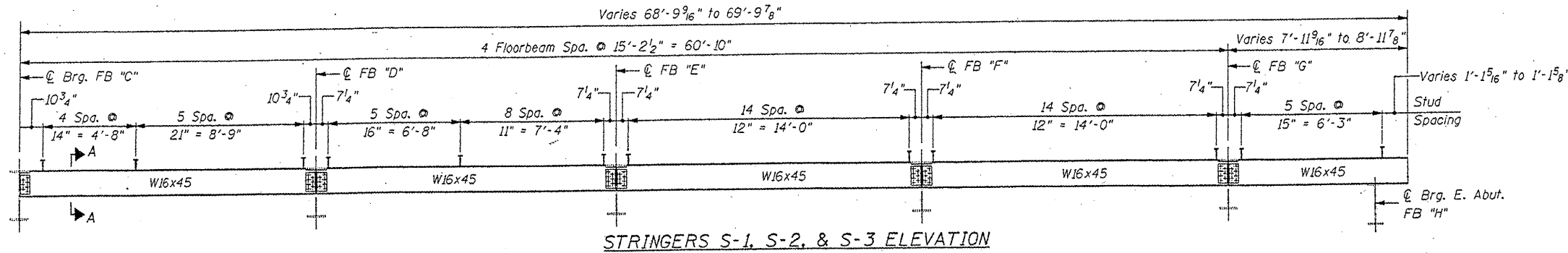
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PLOT SCALE: 1/8" = 1'-0"	PLOT DATE: 6/23/2011	DRAWN: -	REVISED: -
		CHECKED: -	REVISED: -
		DATE: -	REVISED: -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

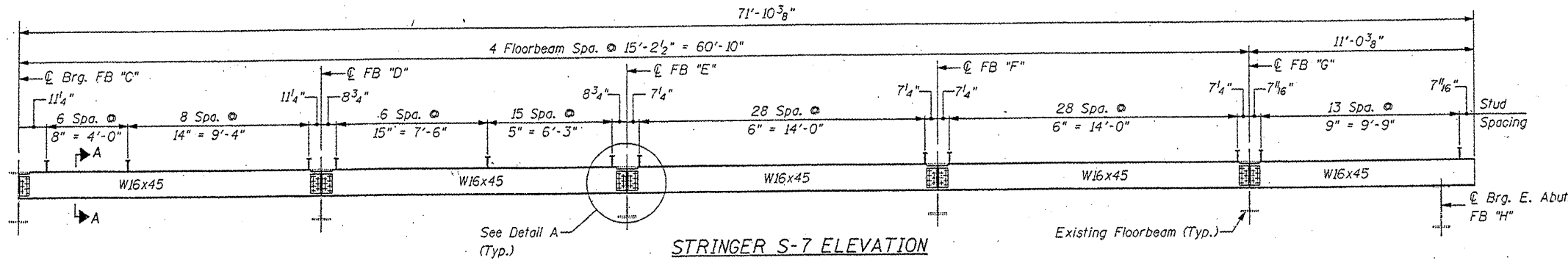
RUBY STREET OVER DES PLAINES RIVER  
SN 099-9901  
SCALE: SHEET NO. 13 OF 30 SHEETS STA. TO STA.

F.A.P. RTE. 112	SECTION M-BDR-1	COUNTY WILL	TOTAL SHEETS 66	SHEET NO. 22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62714	

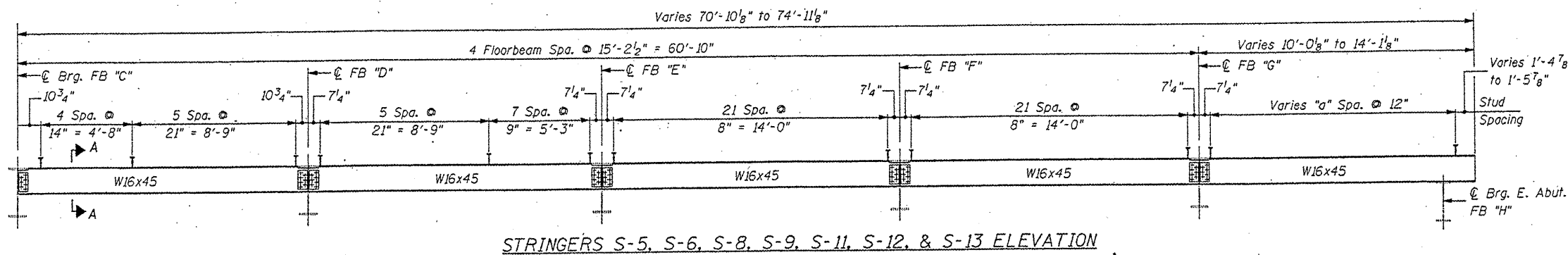
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



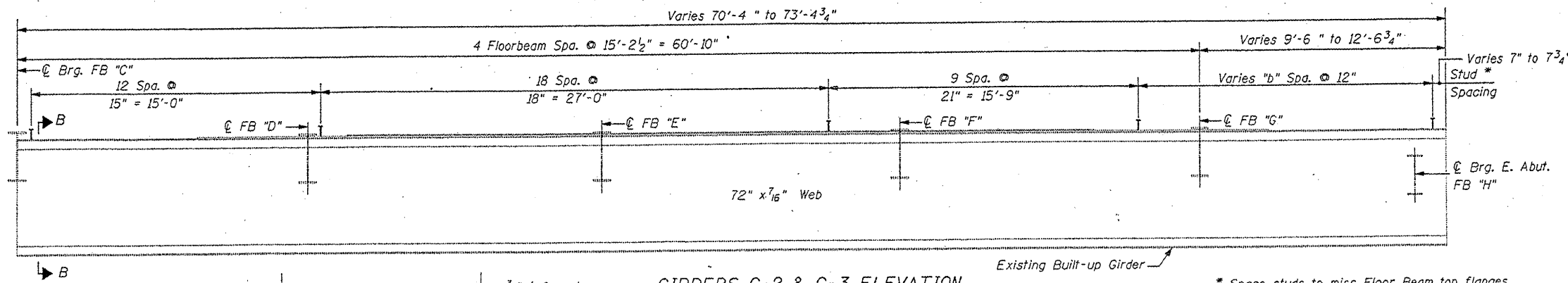
STRINGERS S-1, S-2, & S-3 ELEVATION



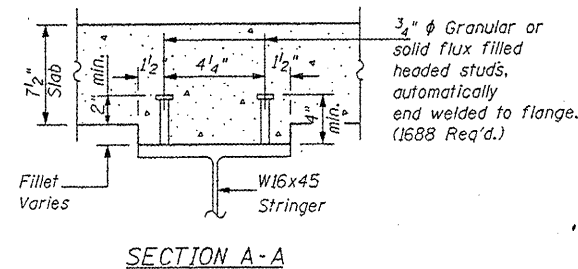
STRINGER S-7 ELEVATION



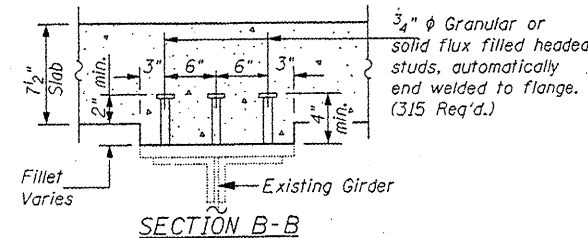
STRINGERS S-5, S-6, S-8, S-9, S-11, S-12, & S-13 ELEVATION



GIRDERS G-2 & G-3 ELEVATION

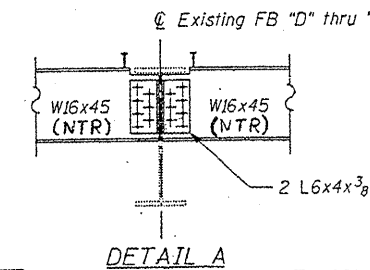


SECTION A-A



SECTION B-B

**FOR INFORMATION ONLY**

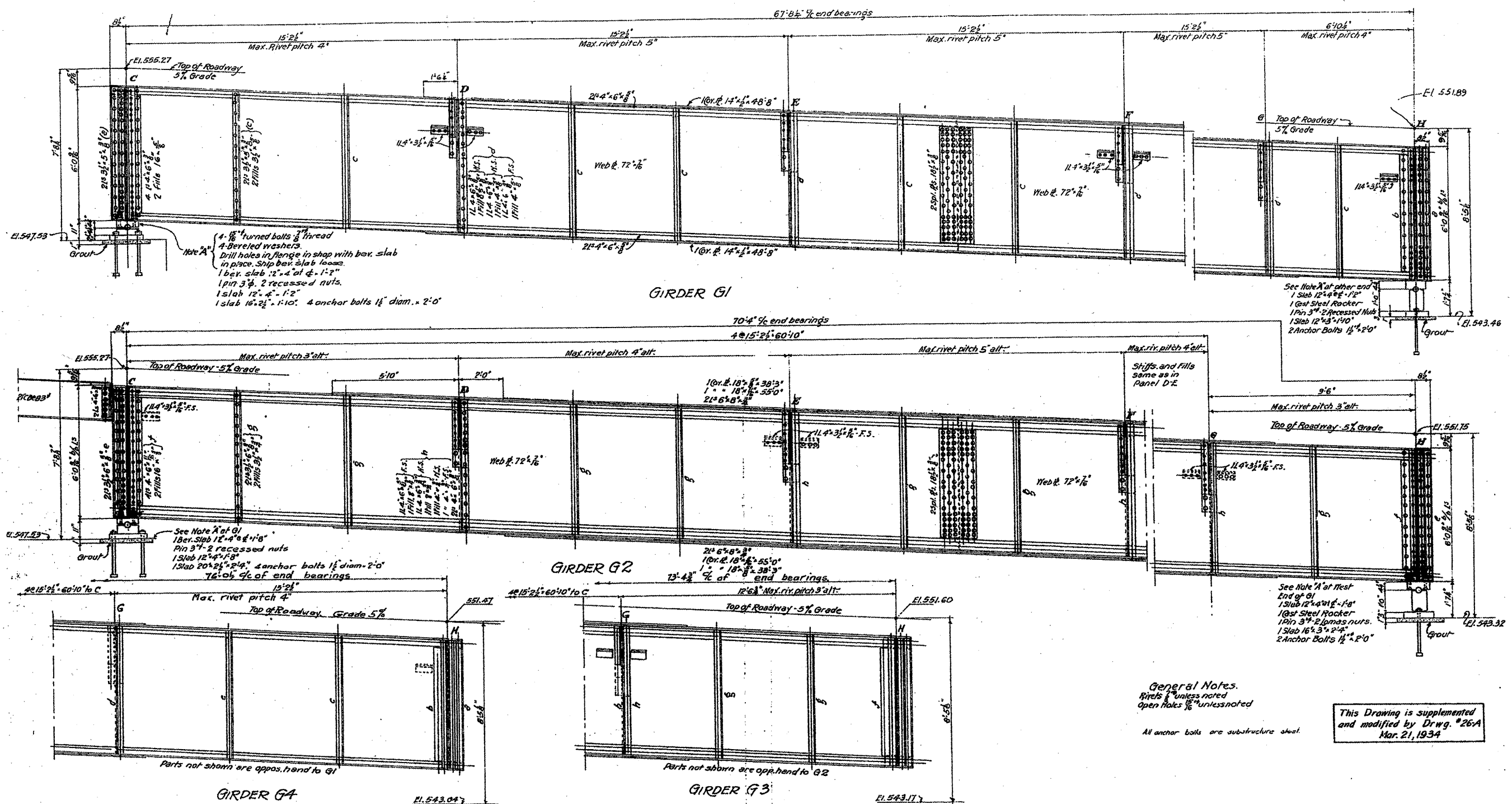


DETAIL A

Stringer	"a"	Girder	"b"
S-5	8	G-2	12
S-6	9	G-3	15
S-8	10		
S-9	10		
S-11	11		
S-12	12		
S-13	12		

EAST APPROACH SPAN  
FRAMING DETAILS  
RUBY STREET (F.A.P.112) OVER  
DES PLAINES RIVER  
WILL COUNTY  
STRUCTURE NUMBER 099-9901

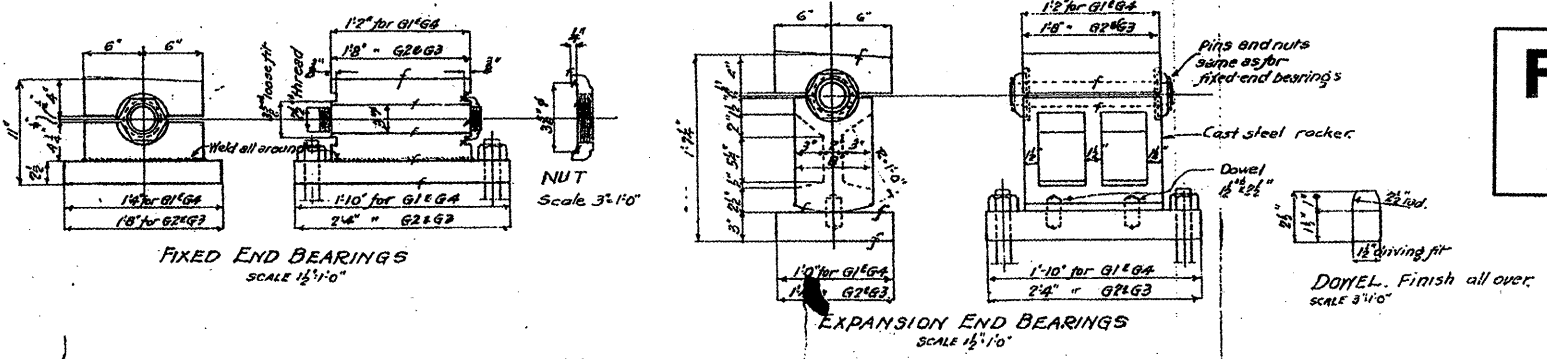
FILE NAME =	USER NAME = mdyje	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUBY STREET OVER DES PLAINES RIVER SN 099-9901	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
en:\pwwork\pwwork\mdyje\08148931\011158	shp-plan.dgn	DRAWN -	REVISED -			112	M-BDR-1	WILL	66	23	
PLOT SCALE = 1/8" = 1'-0"		CHECKED -	REVISED -			CONTRACT NO. 62714					
PLOT DATE = 6/23/2011		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO. 14 OF 30 SHEETS	STA.	TO STA.		



General Notes.  
Rivets 1/2" unless noted  
Open holes 1/8" unless noted

All anchor bolts are substructure steel.

This Drawing is supplemented  
and modified by Drwg. #26A  
Mar. 21, 1934



**FOR INFORMATION ONLY**

APPROACH GIRDERS  
DOUBLE LEAF TRUNNION BASCULE BRIDGE  
OVER  
THE ILLINOIS WATERWAY  
AT  
RUBY ST, JOLIET, ILL.

DESIGNED BY  
THE SCHERZER ROLLING LIFT BRIDGE CO.  
MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY E.A.P.  
TRACED BY H.W. LLOYD  
CHECKED BY B.T.D.  
REVISED 1-10-1933  
1-10-1934

SCALE: 1/4" = 1'-0" unless noted  
DATE: April 29, 1933  
SHEET NO. 1343-25

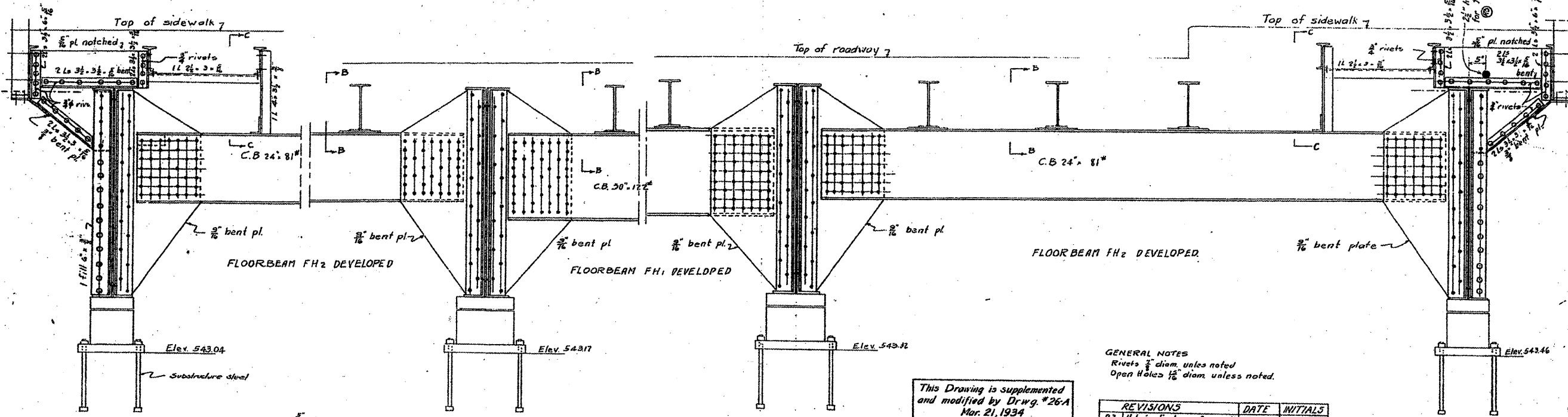
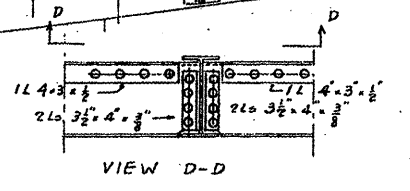
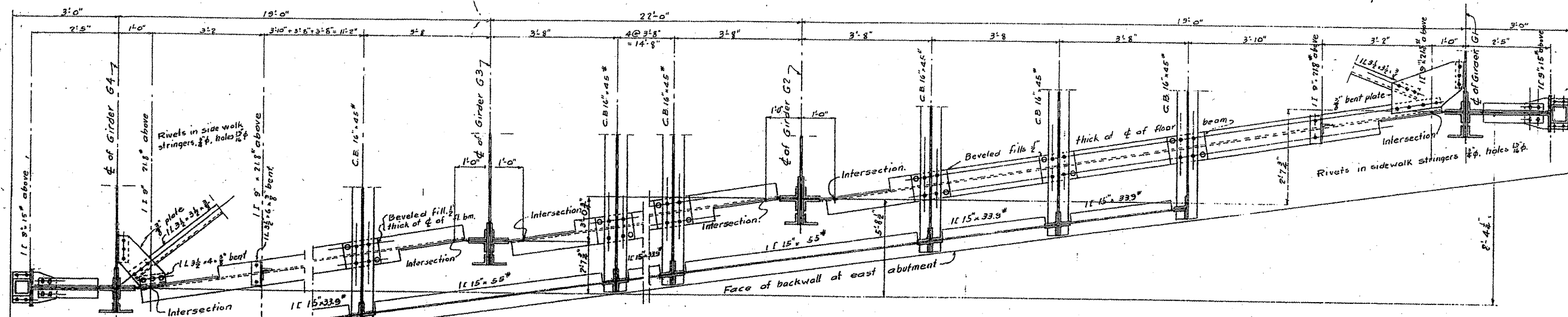
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	PLOT SCALE = 103.1218 "/ IN.	CHECKED -	REVISED -
	PLOT DATE = 6/27/2009	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER			
SN 099-9901			
SCALE:	SHEET NO. 15 OF 30 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	M-BOR-1	WILL	66	24
			CONTRACT NO. 62714	
ILLINOIS FED. AID PROJECT				

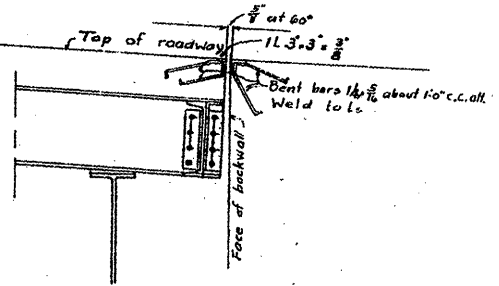




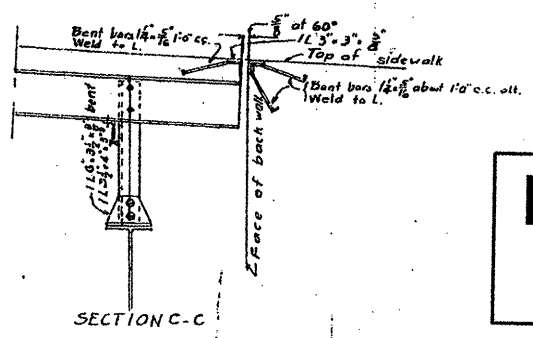
GENERAL NOTES  
 Rivets 3/4" diam. unless noted  
 Open Holes 1/2" diam. unless noted.

REVISIONS	DATE	INITIALS
R3	Hole in diaphragm for conduit	5-22-34 GJ

This Drawing is supplemented and modified by Drwg. #26-A Mar. 21, 1934



SECTION B-B



SECTION C-C

**FOR INFORMATION ONLY**

APPROACH FLOORBEAMS FH  
 DOUBLE LEAF TRUNNION BASCULE BRIDGE  
 OVER  
 THE ILLINOIS WATERWAY  
 AT  
 RUBY ST., JOLIET, ILL.

DESIGNED BY  
 THE SCHERZER ROLLING LIFT BRIDGE CO.  
 MONMOUTH BLOCK, CHICAGO, ILL.

DRAWN BY E.A.K.  
 TRACED BY E.A.K.  
 CHECKED BY O.P.D.  
 REVISED Aug 23, 1934

SCALE: 3/8" = 1'-0"  
 DATE: April 28, 1934

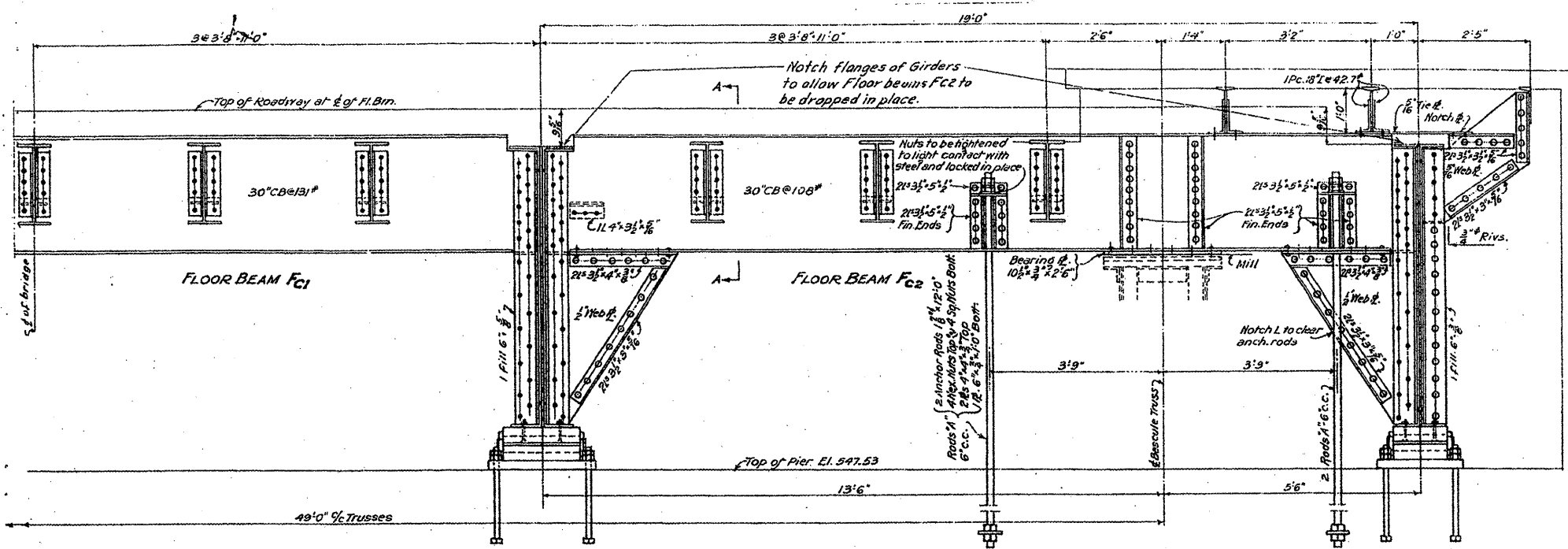
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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

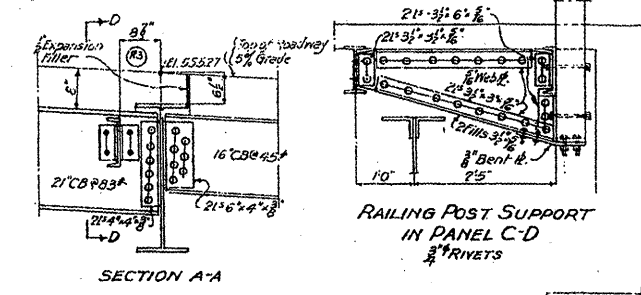
RUBY STREET OVER DES PLAINES RIVER  
 SN 099-9901

SCALE: SHEET NO. 16 OF 30 SHEETS STA. TO STA.

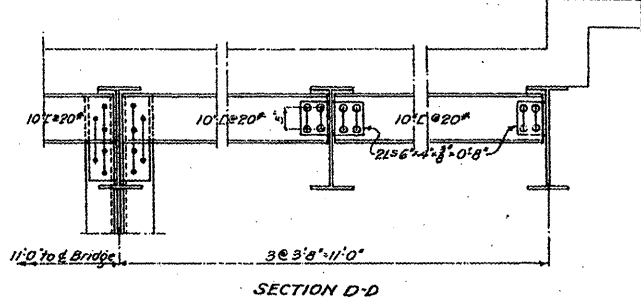
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	M-BDR-1	WILL	66	25
CONTRACT NO. 62714				
ILLINOIS FED. AID PROJECT				



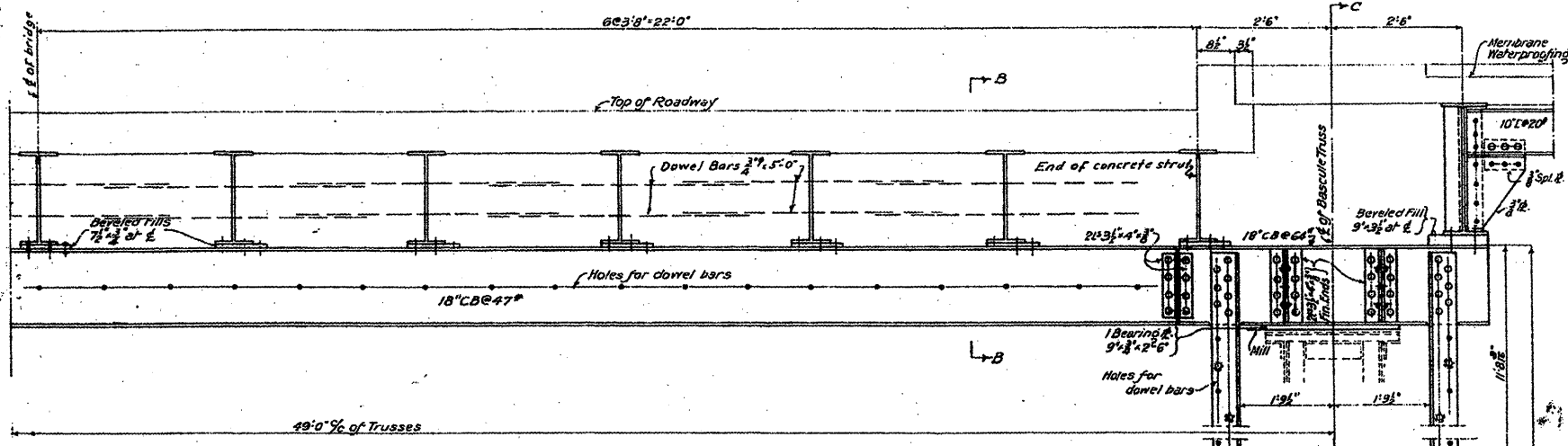
FLOOR BEAMS & ANCHORAGE AT POINT C EAST LEAF



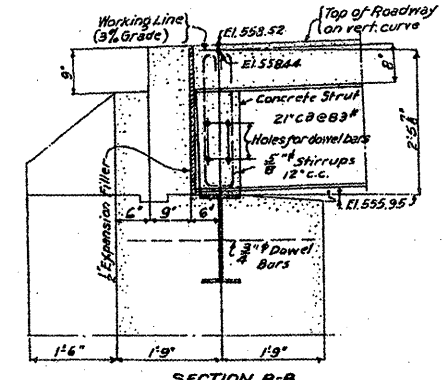
SECTION A-A



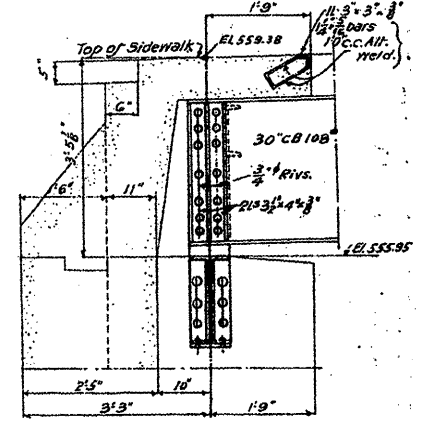
SECTION D-D



ANCHORAGE GIRDER & COLUMNS (substructure steel) WEST LEAF



SECTION B-B



SECTION C-C

General Notes  
Rivets 3" unless noted  
Open Holes 1/2" unless noted  
For reaming of holes see specifications.

ANCHORAGE GIRDERS & COLUMNS  
DOUBLE LEAF TRUNNION BASCULE BRIDGE  
OVER  
THE ILLINOIS WATERWAY  
AT  
RUBY ST., JOLIET, ILL.

DESIGNED BY  
THE SCHERZER ROLLING LIFT BRIDGE CO.  
MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY P.L.D.

SCALE: 1/4" = 1'-0"

**FOR INFORMATION ONLY**

REVISIONS	DATE	INITIALS
R3 Expansion joint in Sec. AA	10-23-34	G. J.

2-#4 Leveling Screws  
(Construction Joint)  
El. 537.57

2 Anch. Bolts  
1 1/2" x 2'6"

FILE NAME =  
c:\pwwork\p\1007\MIDYJA\0148931\vd1156

USER NAME = midyja  
ao.dgn  
PLOT SCALE = 1/8" = 1'-0"  
PLOT DATE = 6/27/2009

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

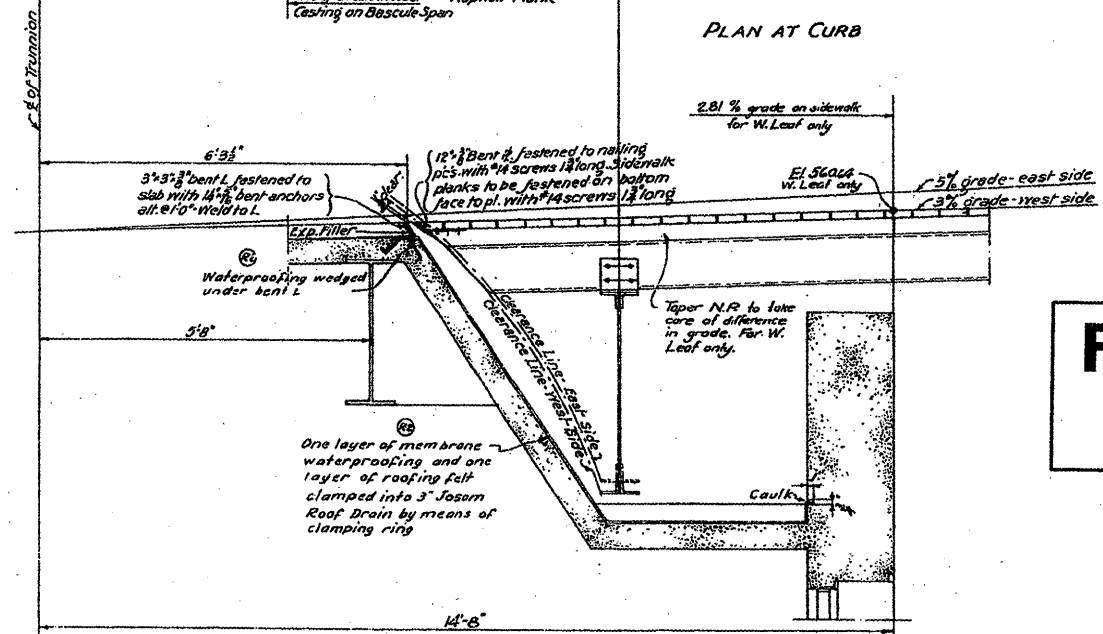
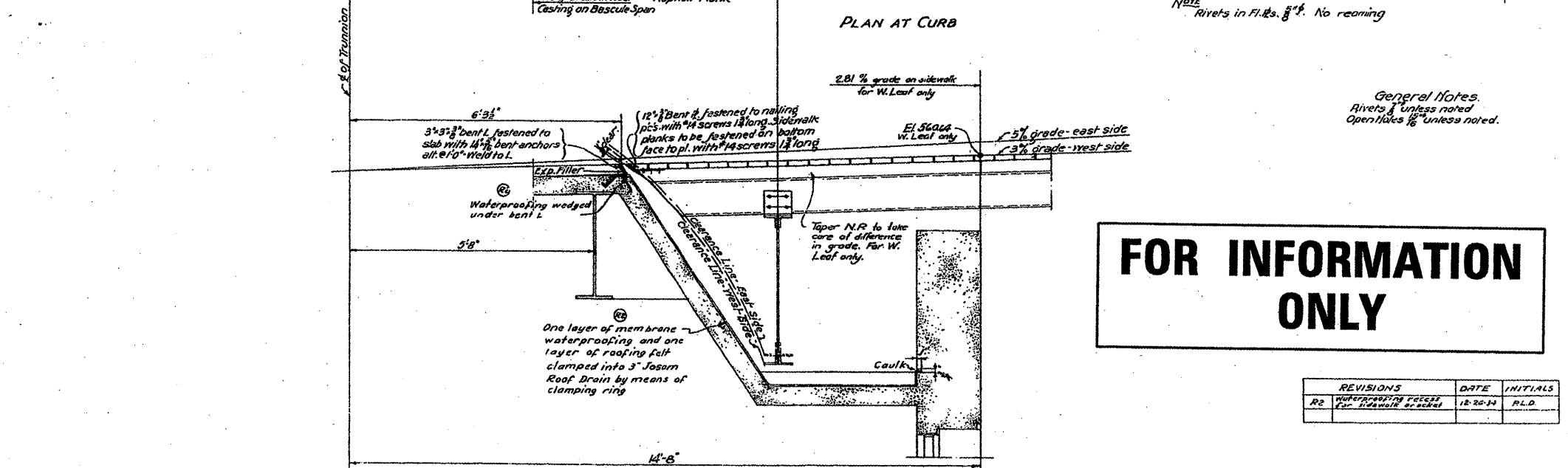
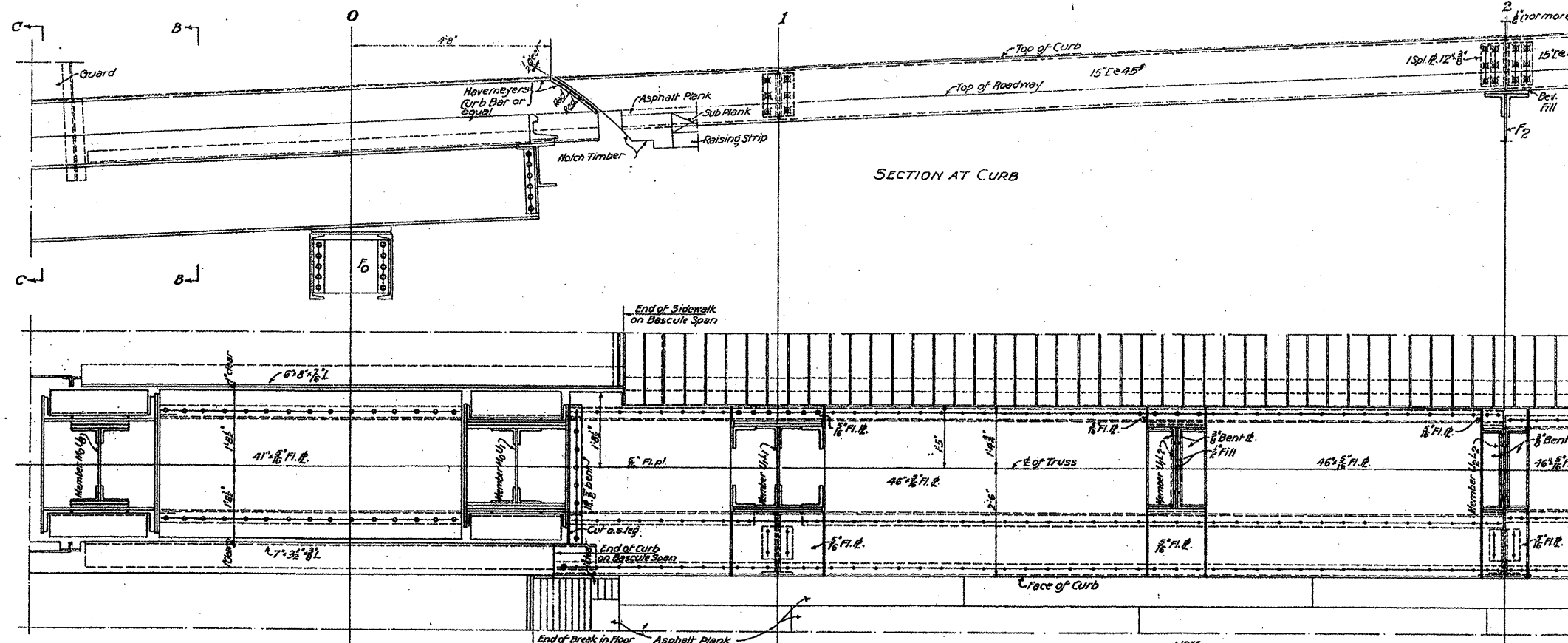
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER  
SN 099-9901  
SCALE: SHEET NO. 17 OF 30 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	M-BDR-1	WILL	66	26

CONTRACT NO. 62714  
ILLINOIS FED. AID PROJECT

For Sections B-B, C-C  
see Sheet #27

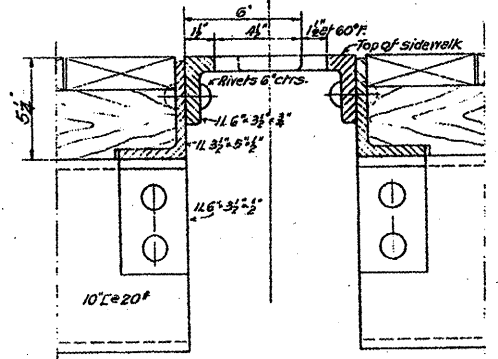
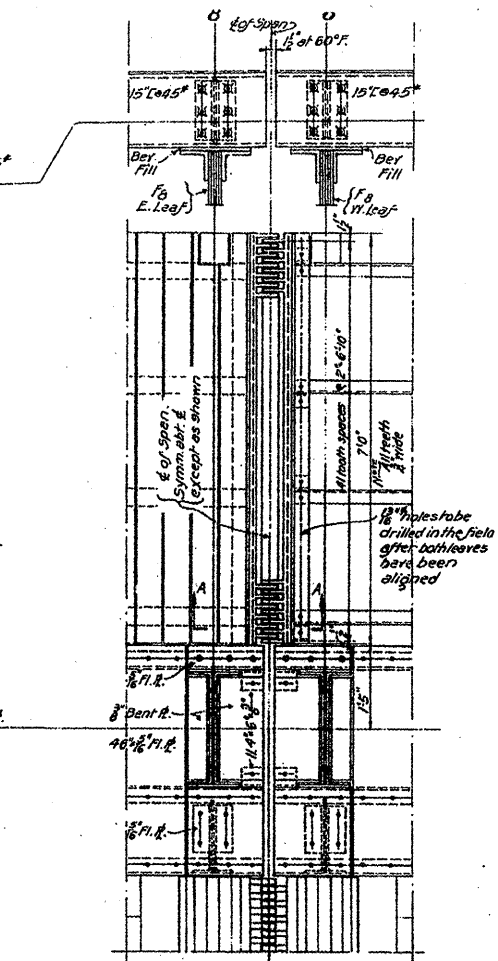


DETAILS AT REAR BREAK IN SIDEWALK FLOOR - NORTH SIDE OF WEST ABUTMENT  
DETAILS AT OTHER POINTS SIMILAR

**FOR INFORMATION ONLY**

REVISIONS	DATE	INITIALS
R2 WATERPROOFING FOLDS FOR SIDEWALK REPAIR	12-20-11	R.L.D.

General Notes:  
Rivets 1/2" unless noted  
Open Holes 1/2" unless noted.



**CURB DETAILS AND BREAK IN SIDEWALK DOUBLE LEAF TRUNNION BASCULE BRIDGE OVER THE ILLINOIS WATERWAY AT RUBY ST, JOLIET, ILL**

DESIGNED BY  
**THE SCHERZER ROLLING LIFT BRIDGE CO.**  
MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY A.B.  
TRACED BY E.W.  
CHECKED BY R.L.D.

SCALE: 1/4" = 1'-0" UNLESS NOTED  
DATE: APRIL 21, 1931

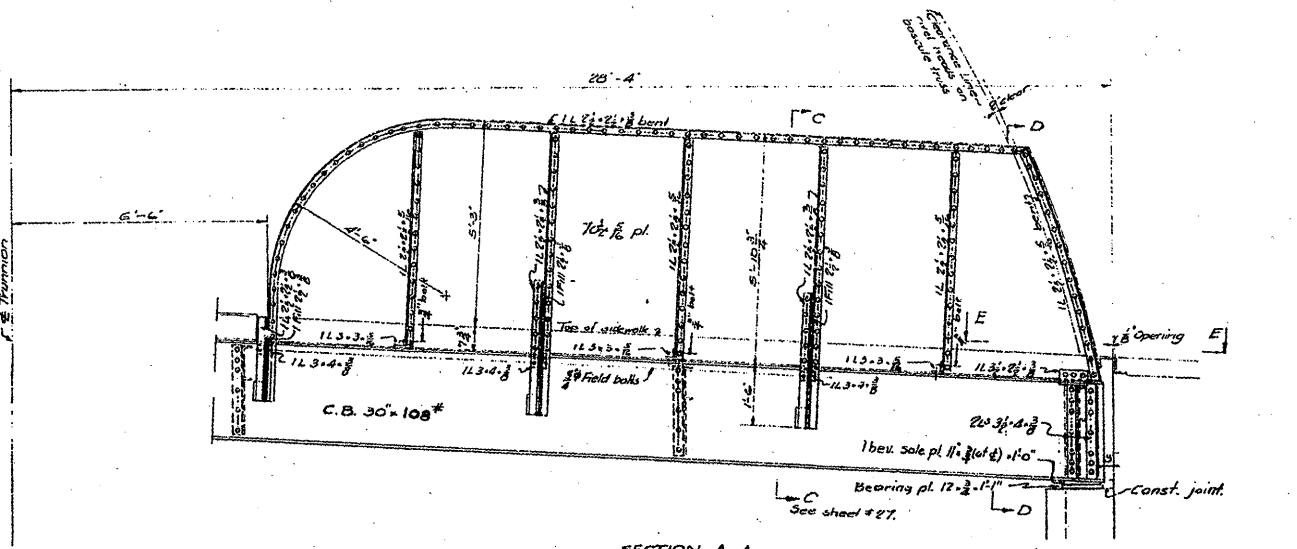
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PLOT SCALE = 1/32" = 1' / IN.		CHECKED -	REVISED -
PLOT DATE = 6/27/2009		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

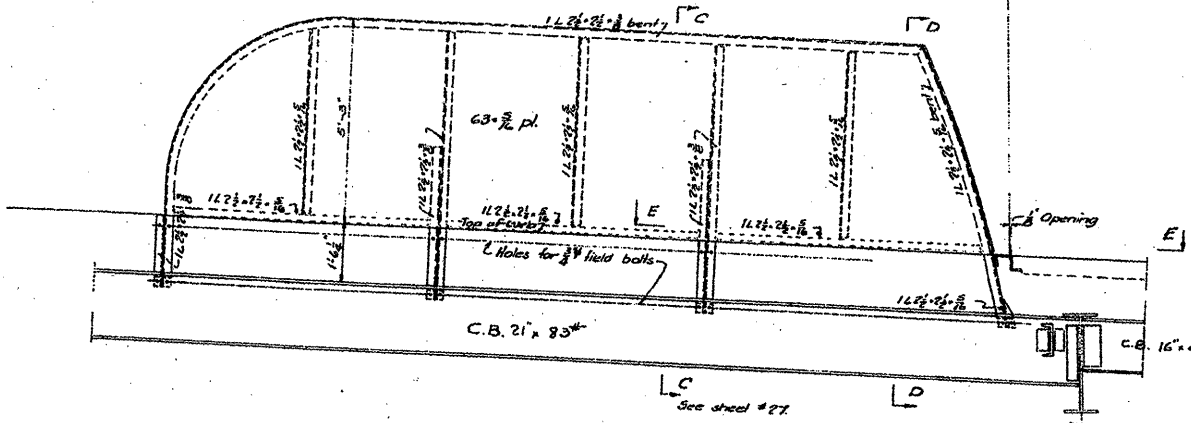
**RUBY STREET OVER DES PLAINES RIVER  
SN 099-9901**

SCALE: SHEET NO. 18 OF 30 SHEETS STA. TO STA.

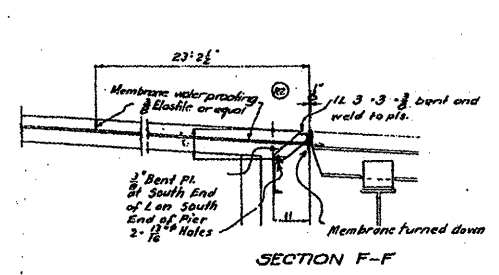
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	M-BDR-1	WILL	66	27
CONTRACT NO. 62714				
ILLINOIS FED. AID PROJECT				



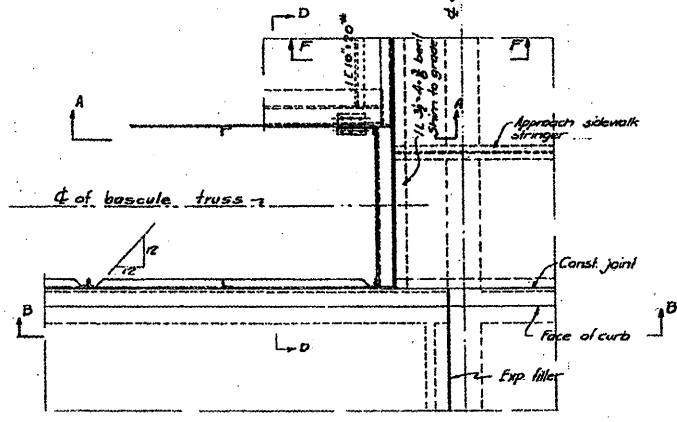
SECTION A-A



SECTION B-B

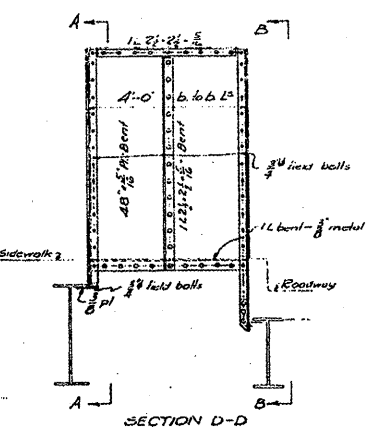


SECTION F-F

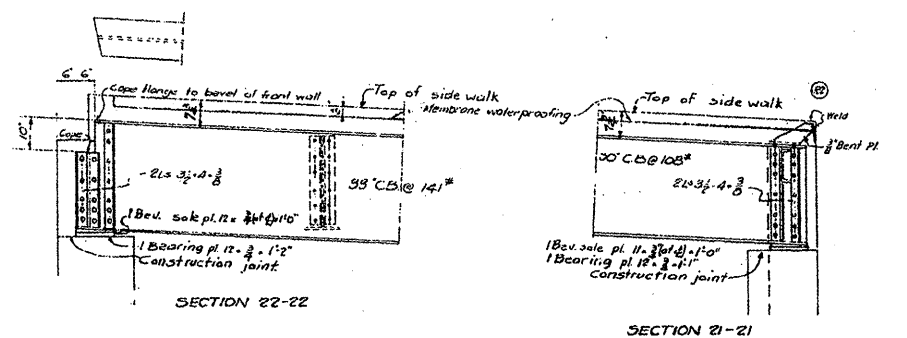


SECTION E-E, East Side

GUARD AT REAR END OF EAST BASCULE TRUSSES  
Guard at rear end of west bascule trusses similar

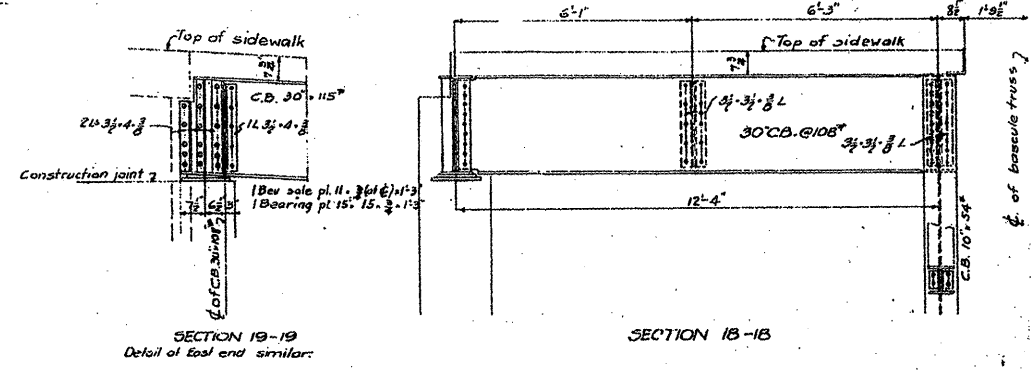


SECTION D-D



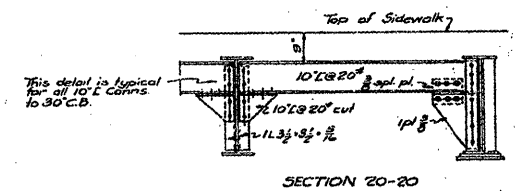
SECTION 22-22

SECTION 21-21



SECTION 19-19  
Detail of east end similar

SECTION 18-18



SECTION 20-20

SIDEWALK STRINGER DETAILS -- For location of sections see Sheets #6 and #12

General Notes:  
Rivets 3/4"  
Open holes 1 1/2"

REVISIONS	DATE	INITIALS
R2	12-26-34	R.L.D.

**FOR INFORMATION ONLY**

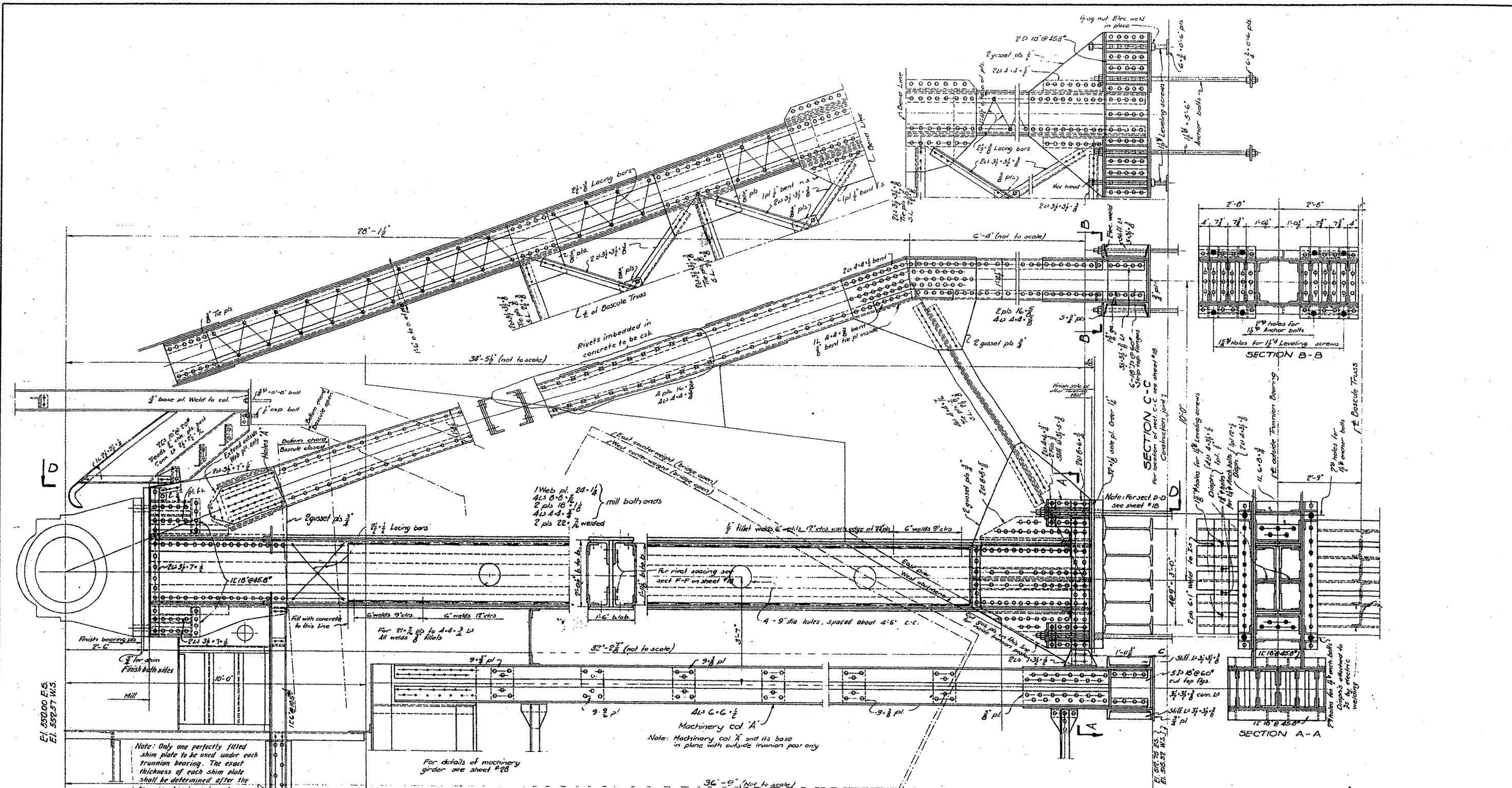
SIDEWALK STRINGERS  
GUARD AT REAR END OF TRUSSES  
DOUBLE LEAF TRUNNION BASCULE BRIDGE  
OVER  
THE ILLINOIS WATERWAY  
AT  
RUBY ST. JOLIET, ILL.

DESIGNED BY  
THE SCHERZER ROLLING LIFT BRIDGE CO.,  
MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY A.L.R.  
TRACED BY A.L.R.S.  
CHECKED BY P.T.S.

SCALE: 1/4" = 1'-0"  
DATE, APRIL 28, 1932.

FILE NAME =	USER NAME = midyjo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUBY STREET OVER DES PLAINES RIVER SN 099-9901	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pwwork\p\WIDDT\MIDYJA\08148931\dl11150	as.dgn	DRAWN -	REVISED -			112	M-BDR-1	WILL	66	28	
PLOT SCALE = 1/8" = 1'-0"		CHECKED -	REVISED -			CONTRACT NO. 62714					
PLOT DATE = 6/27/2009		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



TRUNNION SUPPORT  
 DOUBLE LEAF TRUNNION BASCULE BRIDGE  
 OVER  
 THE ILLINOIS WATERWAY  
 AT  
 RUBY ST. JOLIET, ILL.

DESIGNED BY  
 THE SCHERZER ROLLING LIFT BRIDGE CO.  
 MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY A.L.R.S.  
 TRACED BY A.D.  
 CHECKED BY E.C.H.  
 REVISED July 24 1935

SCALE: 3/4" = 1'-0"  
 DATE: Feb. 21 1935.  
 SHEET NO. 13 OF 17

**FOR INFORMATION ONLY**

GENERAL NOTES:  
 Rivets 1/2" dia.  
 Open rivets 1/2"  
 Wash 19 ice sp.

Note:  
 Trunnion posts, bracing, girders and anchor bolts are substructure steel.

Note: Only one perfectly fitted shim plate to be used under each trunnion bearing. The exact thickness of each shim plate shall be determined after the trunnion bearings have been placed and adjusted.

FILE NAME =	USER NAME = mdyjo
et:\pw\work\PWIDOT\MIDYJA\00148931\DI1150	-sht-plen.dgn
PLOT SCALE = 1/8" = 1'-0"	
PLOT DATE = 7/1/2009	

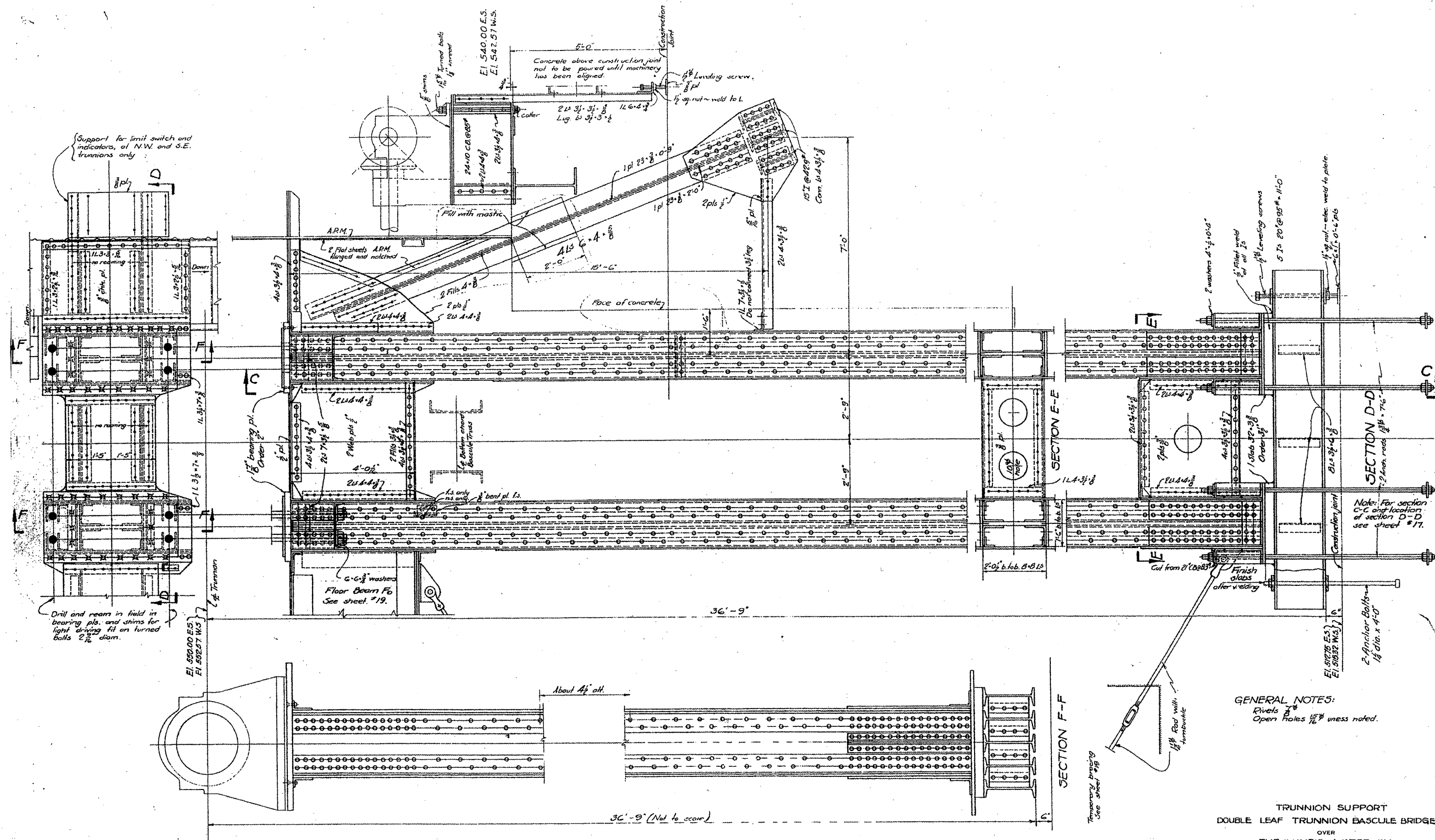
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER  
 SN 099-9901

SCALE: SHEET NO. 20 OF 30 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	M-BDR-1	WILL	66	29
			CONTRACT NO. 62714	
ILLINOIS FED. AID PROJECT				



**GENERAL NOTES:**  
 Rivets  $\frac{3}{8}$ "  
 Open Holes  $\frac{1}{16}$ " unless noted.

**TRUNNION SUPPORT**  
**DOUBLE LEAF TRUNNION BASCULE BRIDGE**  
 OVER  
 THE ILLINOIS WATERWAY  
 AT  
 RUBY ST. JOLIET, ILL.

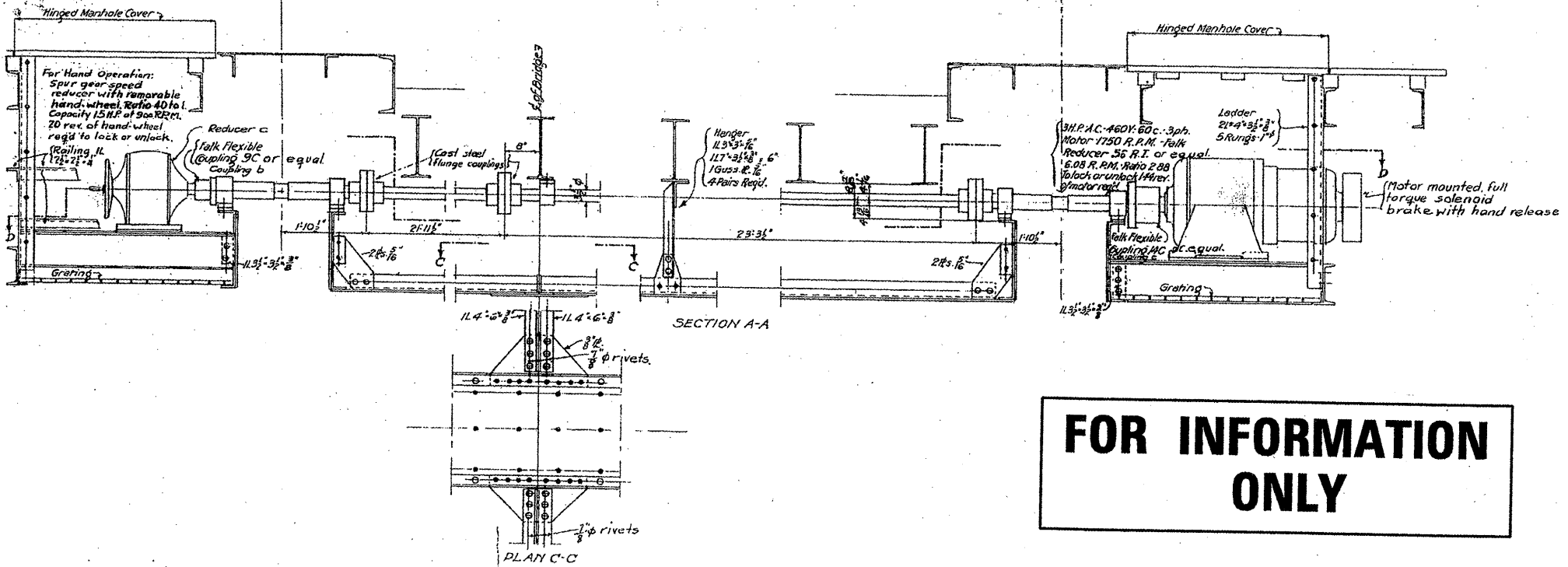
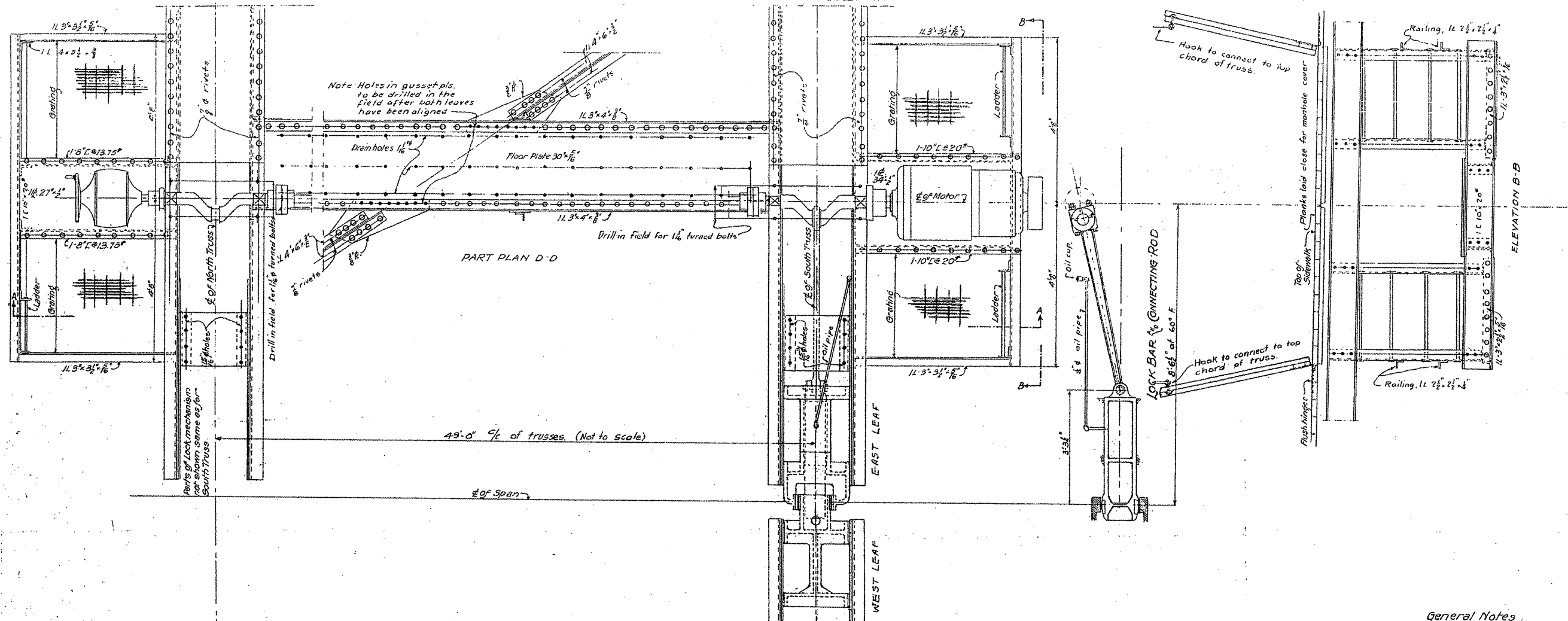
DESIGNED BY  
**THE SCHERZER ROLLING LIFT BRIDGE CO.**  
 MONAUNOCK BLOCK, CHICAGO, ILL.

DRAWN BY A.L.R.  
 TRACED BY A.D.  
 CHECKED BY C.D.Y.

SCALE:  $\frac{3}{8}$ " = 1'-0"  
 DATE: FEB. 21, 1933

**FOR INFORMATION ONLY**

FILE NAME =	USER NAME = midyjo	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RUBY STREET OVER DES PLAINES RIVER SN 099-9901</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et\pwwork\KPM\DOT\MIDYJA\0148931\011150	-sht-plan.dgn	DRAWN -	REVISED -			112	M-BDR-1	WILL	66	30
PLOT SCALE = 1/32" = 1'-0"		CHECKED -	REVISED -			CONTRACT NO. 62714				
PLOT DATE = 7/1/2009		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				



**General Notes**

Rivets  $\frac{3}{4}$ " unless noted

Open Holes  $1 \frac{1}{2}$ " "

Metal covers, equal to the specified gear covers, shall be provided for the motor, brake, speed reducers, cranks and crank bearings.

Gratings shall be equal to Tri-lock Rectangular Flooring Class 1-0-4 with bars  $1 \frac{1}{2}$ " and  $1 \frac{1}{2}$ "

For general machinery notes see Sheet No 46

**FOR INFORMATION ONLY**

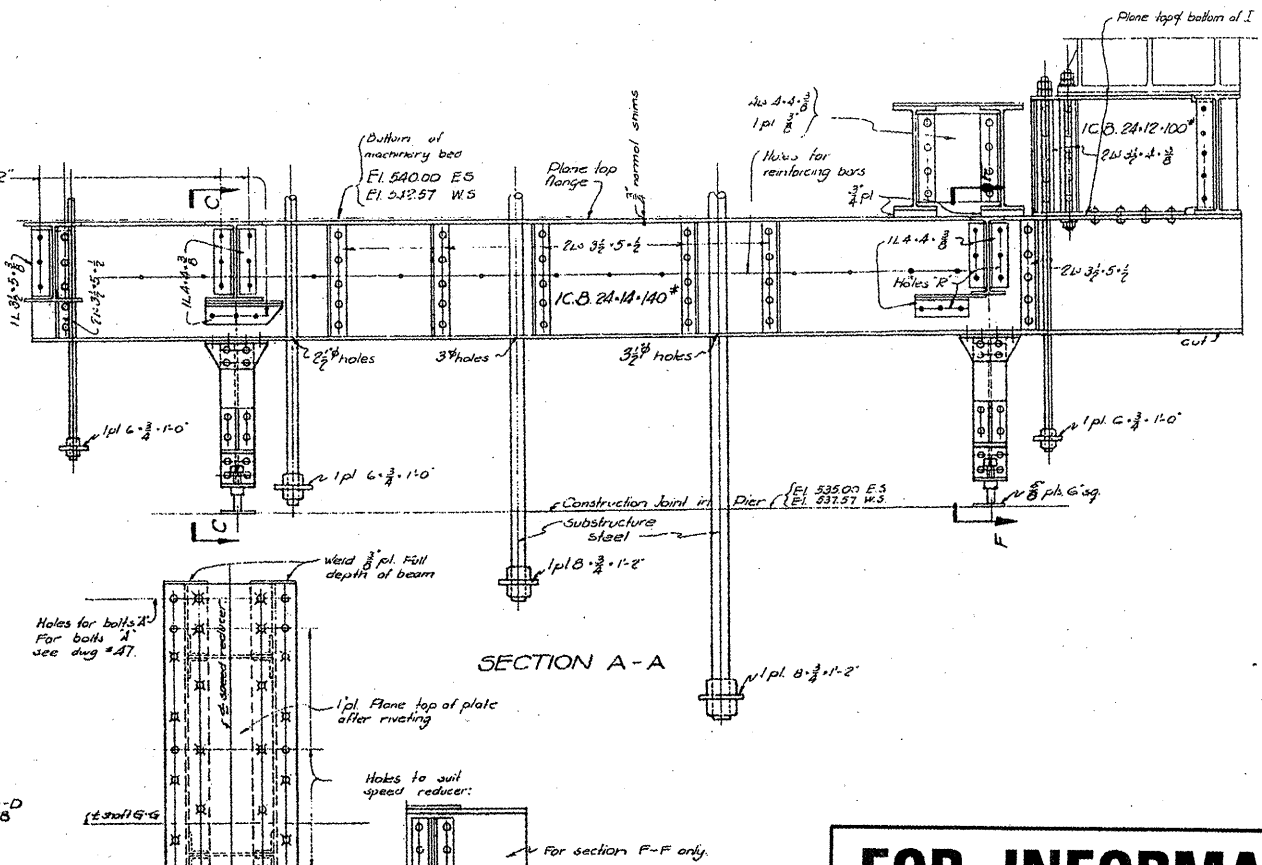
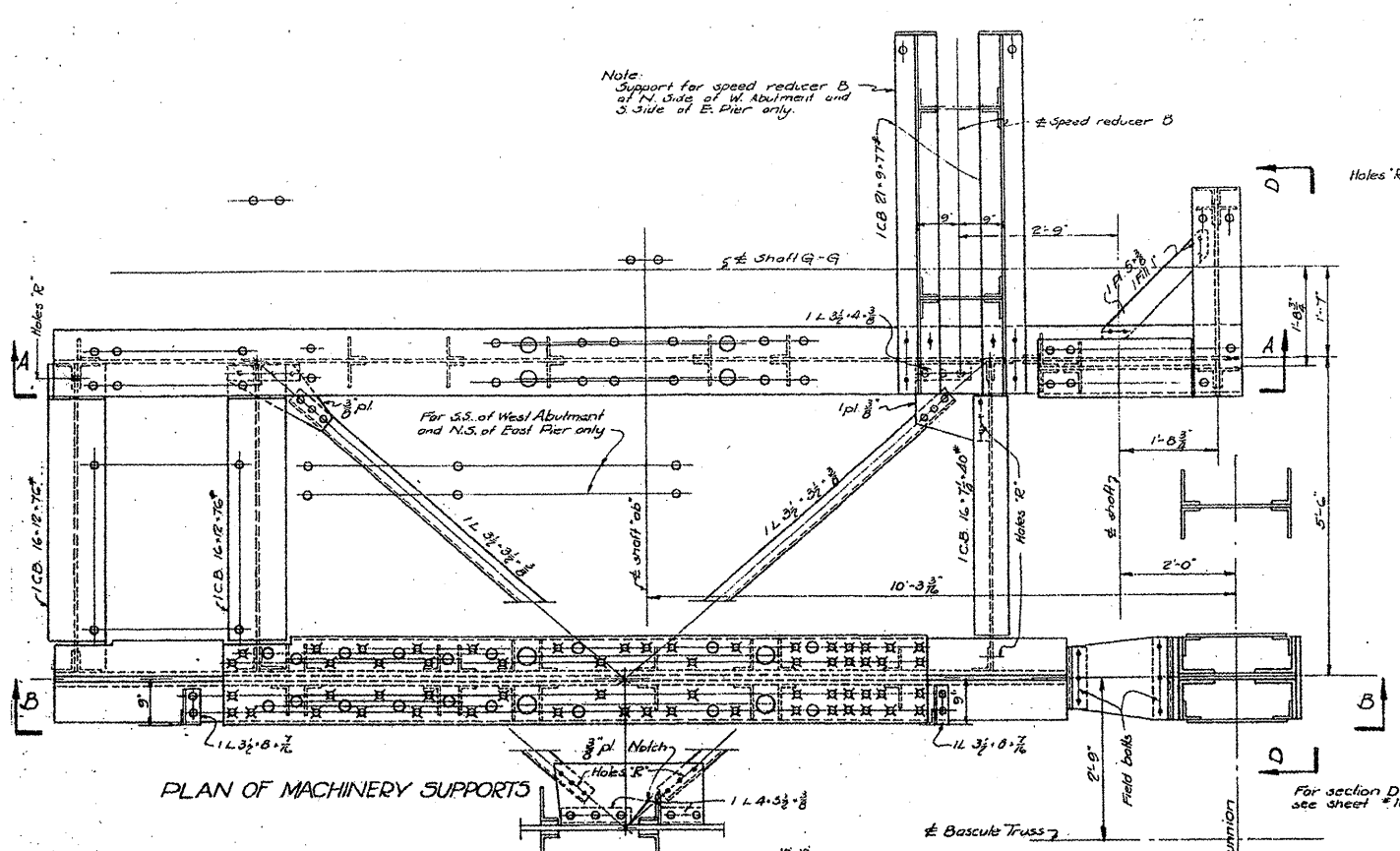
**CENTER LOCK SUPPORTS**  
**DOUBLE LEAF TRUNNION BASCULE BRIDGE**  
OVER  
THE ILLINOIS WATERWAY  
AT  
RUBY ST., JOLIET, ILL.

DESIGNED BY  
THE SCHERZER ROLLING LIFT BRIDGE CO.  
MONADNOCK BLOCK, CHICAGO, ILL.

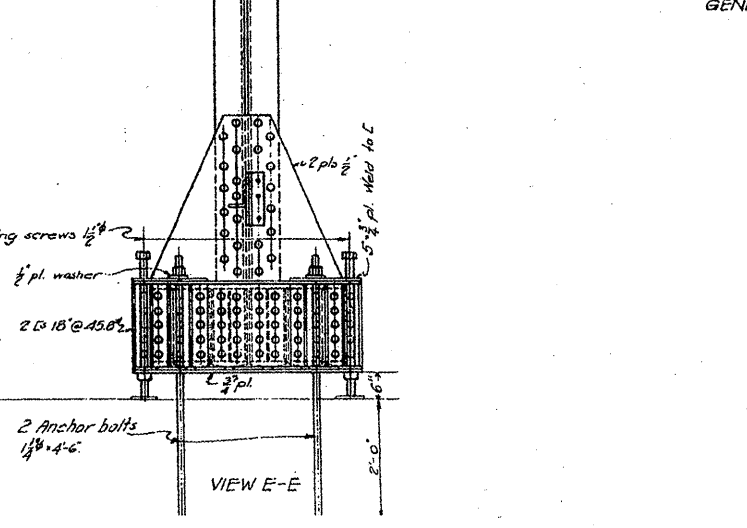
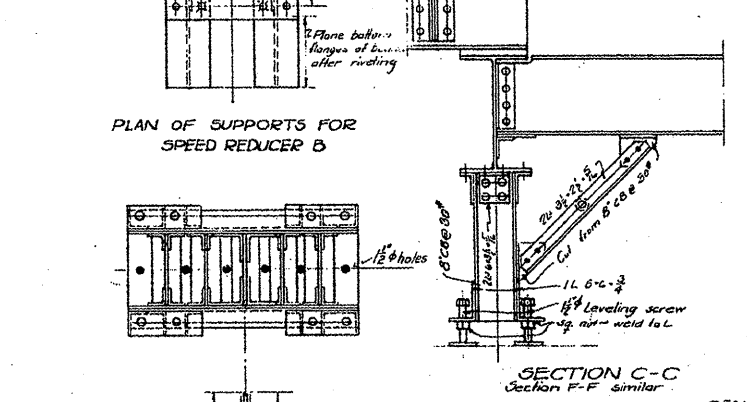
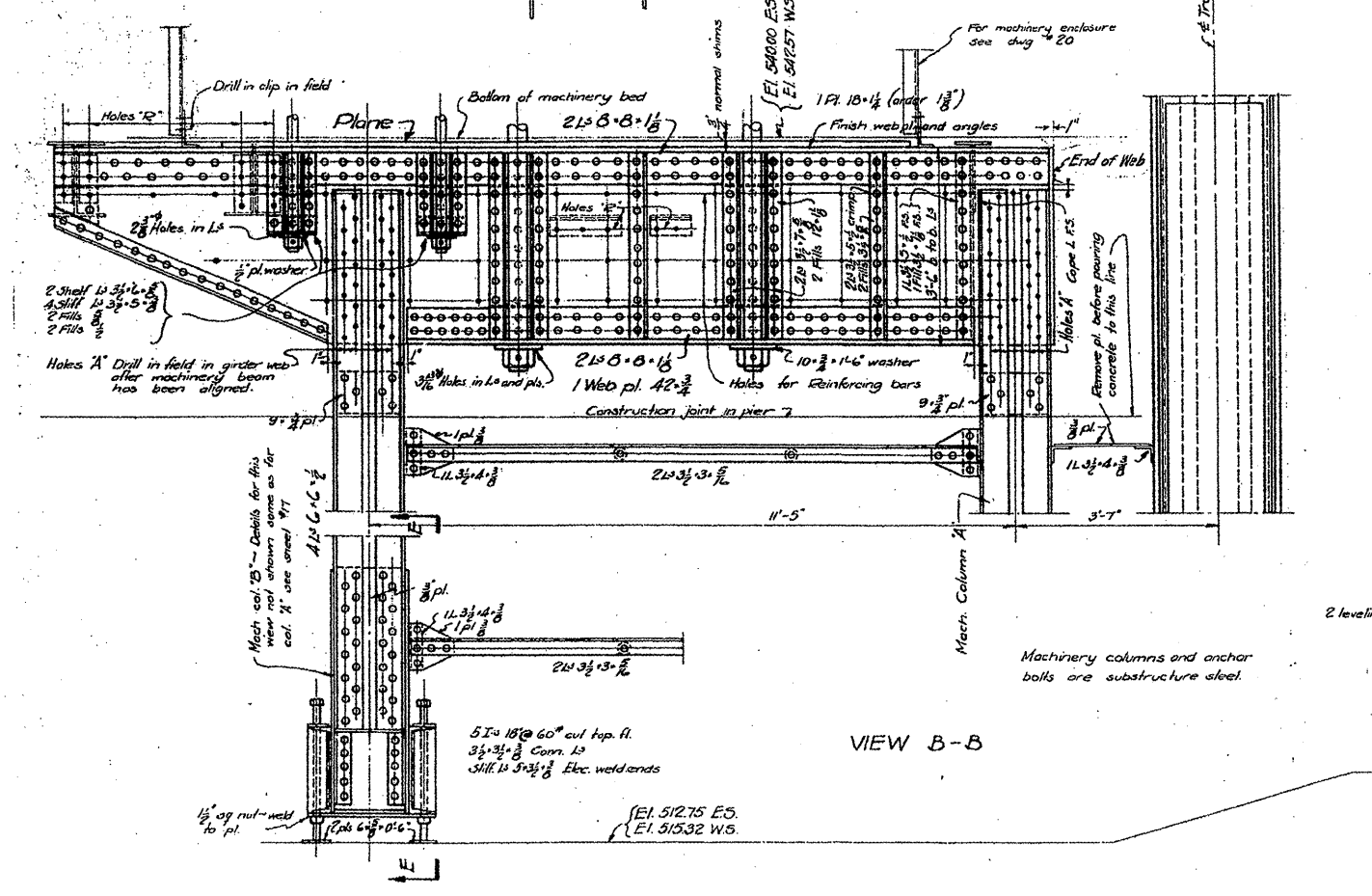
DRAWN BY E.A.H.  
TRACED BY G.E. & E.A.H.  
CHECKED BY A.L.D.

SCALE  $\frac{1}{4}'' = 1'-0''$   
DATE: APRIL 21, 1933

FILE NAME =	USER NAME = mdyjo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUBY STREET OVER DES PLAINES RIVER SN 099-9901	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ee.dgn	ee.dgn	DRAWN -	REVISED -			112	M-BDR-1	WILL	66	31	
PLOT SCALE = 1/8" = 1'-0"		CHECKED -	REVISED -			CONTRACT NO. 62714					
PLOT DATE = 6/27/2009		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



**FOR INFORMATION ONLY**



For machinery details see dugs. #46, #47.

**GENERAL NOTES:**

Rivets 3/4" except as noted.  
Open holes 1/2" except as noted

Holes marked "R" are to be reamed for 1/2" turned bolts with supports assembled in the shop and parts match marked. Bolts to have light driving fit.

All holes for bolts attaching machinery to the supports are to be sub-drilled and reamed with the supports completely bolted up with turned bolts and with machinery beds completely assembled in place in the shop. Machinery and supports must be match marked one with respect to the other.

Finishing: Surfaces which are to be embedded in concrete are not to be painted or oiled.

**MACHINERY SUPPORTS  
DOUBLE LEAF TRUNNION BASCULE BRIDGE  
OVER  
THE ILLINOIS WATERWAY  
AT  
RUBY ST. JOLIET, ILL.**

DESIGNED BY  
**THE SCHERZER ROLLING LIFT BRIDGE CO.  
MONADNOCK BLOCK, CHICAGO, ILL.**

DRAWN BY ALR.S.  
TRACED BY A.D.  
CHECKED BY T.C.

SCALE: 1/4" = 1'-0"  
DATE: MAR. 17, 1933  
SHEET NO. 23 OF 30

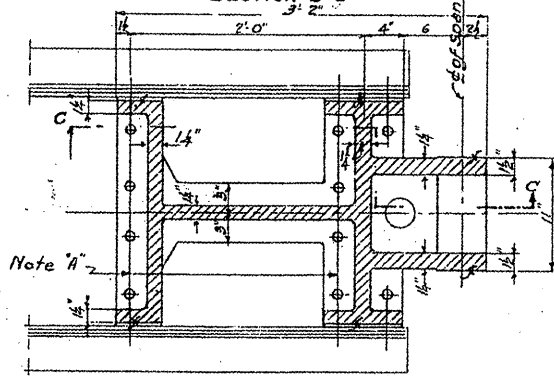
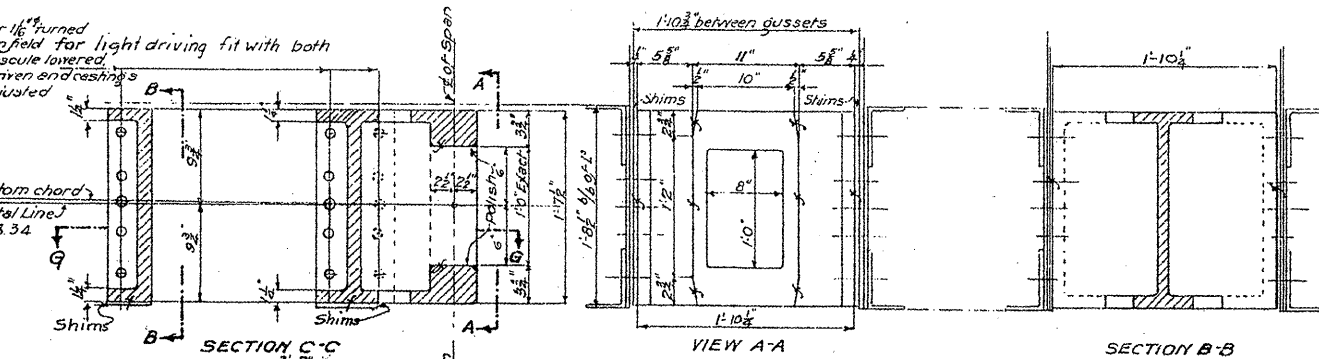
FILE NAME: c:\pwwork\pwwid007\mid\j\j\4\0148931\11158	USER NAME: midjjo	DESIGNED: [blank]	REVISED: [blank]	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RUBY STREET OVER DES PLAINES RIVER SN 099-9901</b>	F.A.P. R.T.E. 112	SECTION M-BDR-1	COUNTY WILL	TOTAL SHEETS 66	SHEET NO. 32
PLOT SCALE: 1/8" = 1'-0"	CHECKED: [blank]	REVISED: [blank]	SCALE: SHEET NO. 23 OF 30 SHEETS STA. TO STA.			CONTRACT NO. 62714				
PLOT DATE: 6/27/2009	DATE: [blank]	REVISED: [blank]	ILLINOIS FED. AID PROJECT							



Note A

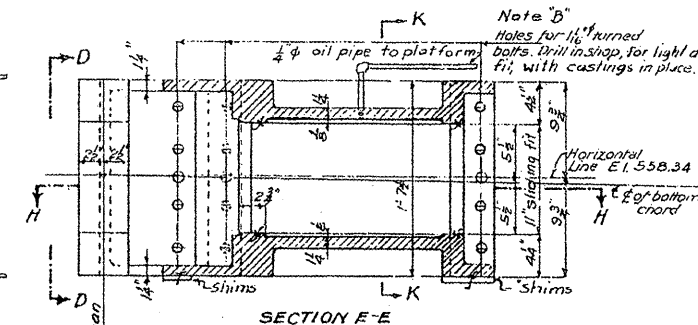
Holes for 1/2" turned bolts. Drill in field for light driving fit with both leaves of bascule lowered. Shear lock driven end castings properly adjusted.

Horizontal Line E1558.34



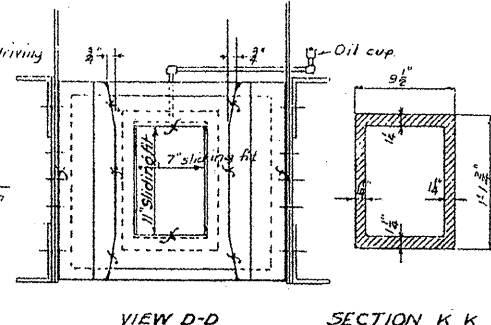
SECTION G-G CASTING FOR WEST LEAF 2 REQ'D. CAST STEEL

Note  
Dimensions locating lock castings are given for a temperature of 60° F and should be varied according to the temperature of the time the castings are adjusted.



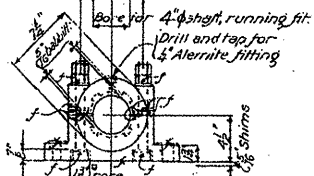
SECTION H-H CASTING FOR EAST LEAF 2 REQ'D. CAST STEEL

Note B  
Holes for 1/2" turned bolts. Drill in shop for light driving fit with castings in place.



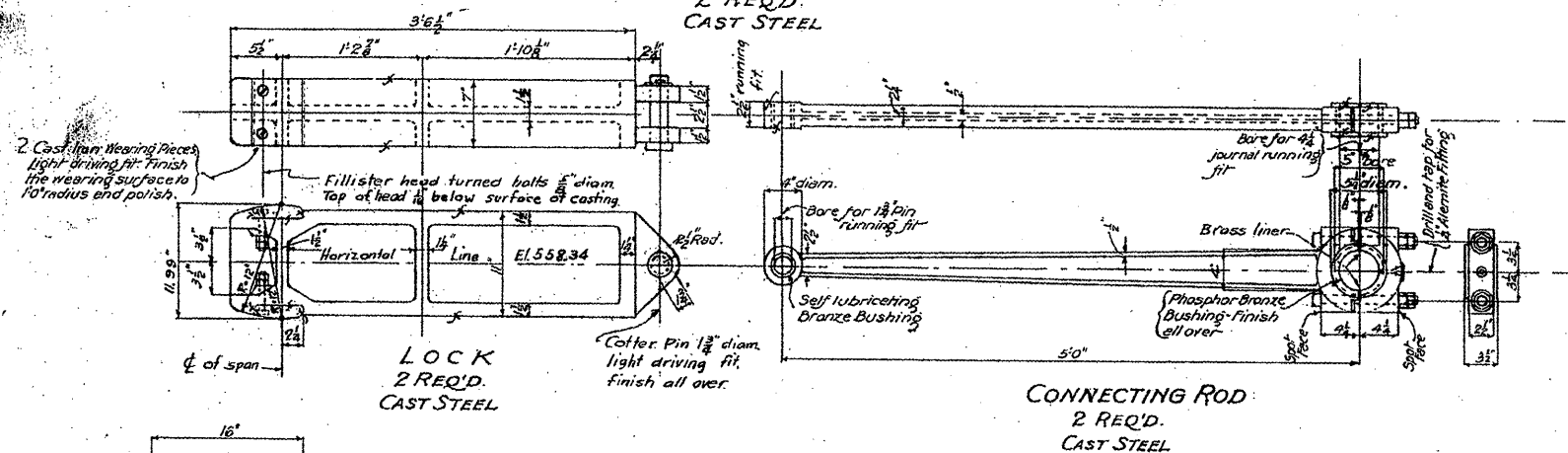
VIEW D-D SECTION K-K BEARING FOR CRANK 4 REQ'D. CAST STEEL

Drill 1/2" holes in shop. Ream after assembly in field for light driving fit on 1/2" turned bolts. Drill for 1/2" turned bolts, light driving fit.



BEARING & SHAFT 3 REQ'D. CAST STEEL

Drill 5/8" holes in shop. Ream after assembly in field for light driving fit on 1/2" turned bolts.

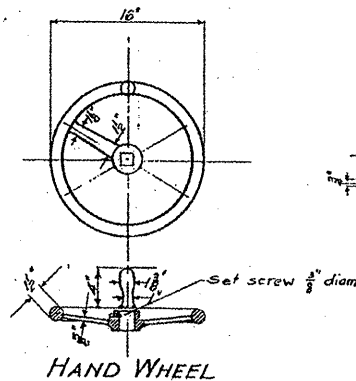


2 Cast Iron Bearing Pieces light driving fit. Finish the wearing surface to 10' radius end polish.

LOCK 2 REQ'D. CAST STEEL

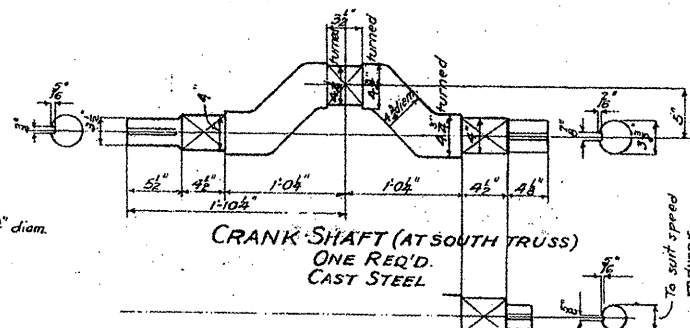
CONNECTING ROD 2 REQ'D. CAST STEEL

Note:  
For general machinery notes see Sheet No. 46.



HAND WHEEL ONE REQ'D. CAST STEEL

Make square hole for sliding fit on shaft of speed reducer so that hand wheel may be removed and stored when not in use.



CRANK SHAFT (AT SOUTH TRUSS) ONE REQ'D. CAST STEEL

CRANK SHAFT (AT NORTH TRUSS) ONE REQ'D. SAME AS AT SOUTH TRUSS EXCEPT AS SHOWN

**FOR INFORMATION ONLY**

CENTER LOCK CASTINGS  
DOUBLE LEAF TRUNNION BASCULE BRIDGE  
OVER  
THE ILLINOIS WATERWAY  
AT  
RUBY ST., JOLIET, ILL.

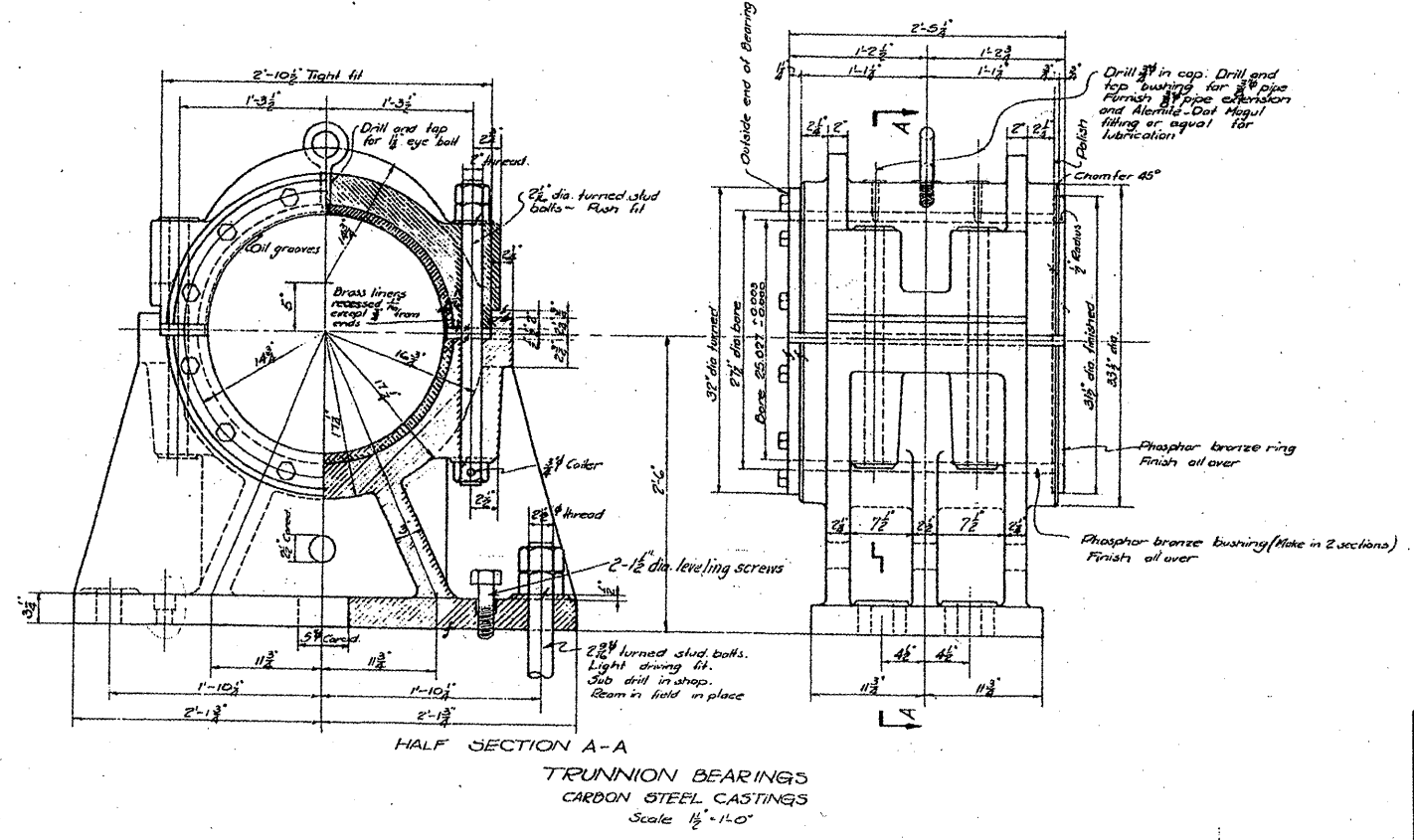
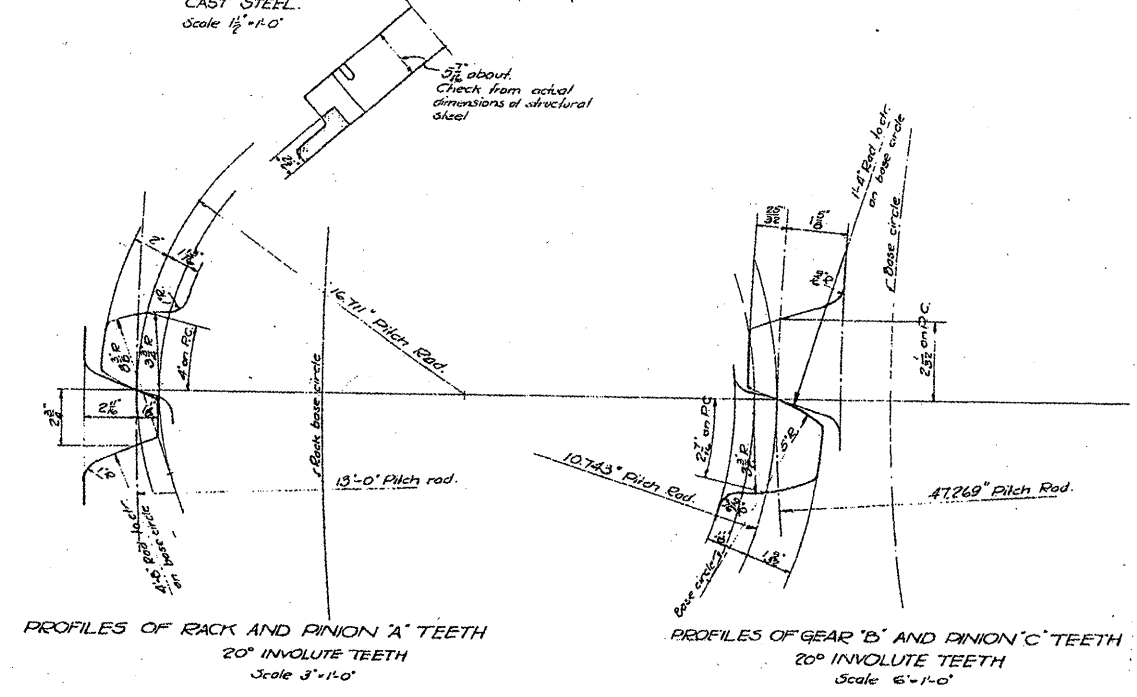
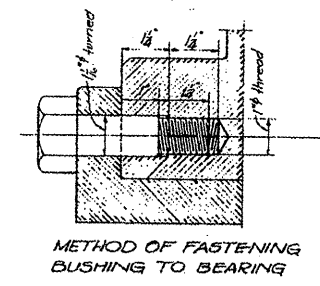
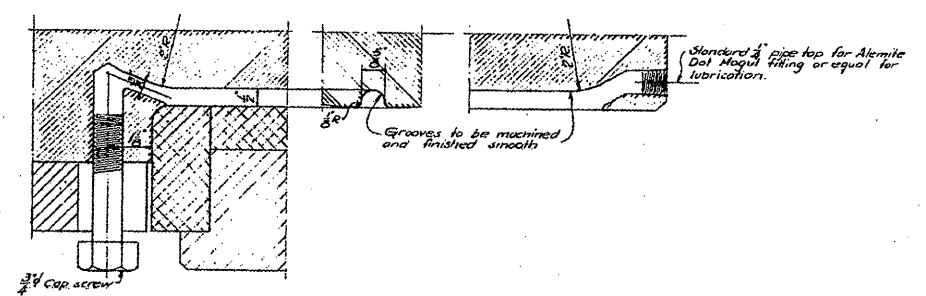
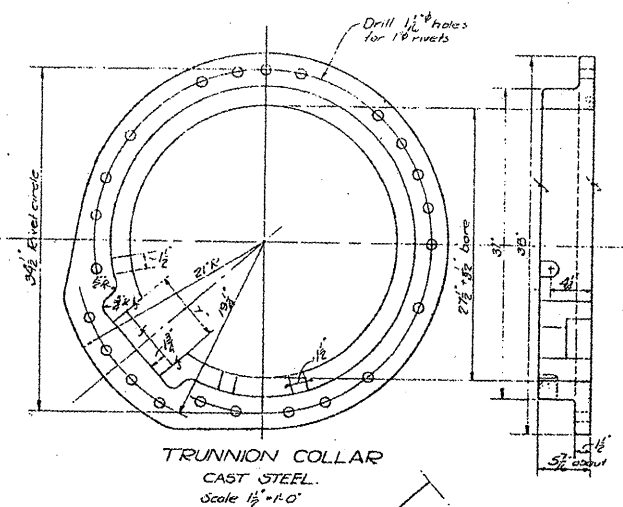
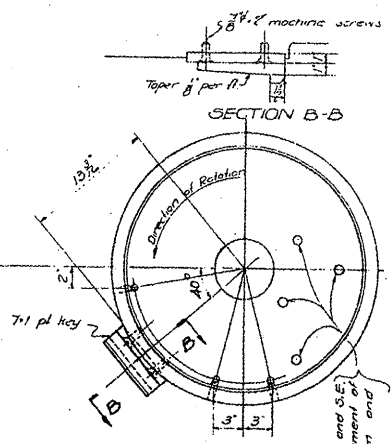
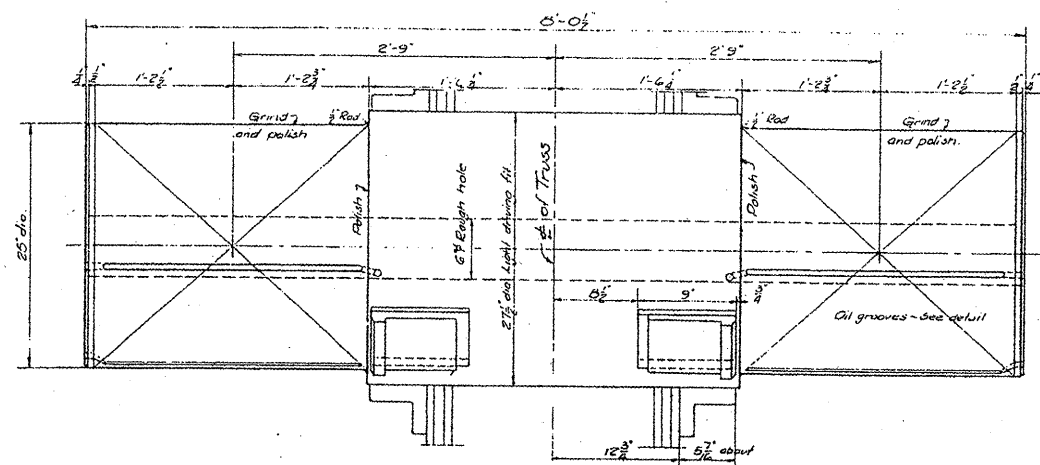
DESIGNED BY  
THE SCHERZER ROLLING LIFT BRIDGE CO.  
MONMADOCK BLOCK, CHICAGO, ILL.

DRAWN BY E.A.H.  
CHECKED BY E.P.R. & H.E.  
DATE: APRIL 25, 1928

SCALE: 1/2" = 1'-0"  
DATE: APRIL 25, 1928

SHEET NO. 1243-43

FILE NAME =	USER NAME = midyja	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RUBY STREET OVER DES PLAINES RIVER SN 099-9901</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = 6/27/2009	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET NO. 24 OF 30 SHEETS	STA.	TO STA.			



**FOR INFORMATION ONLY**

TRUNNIONS AND BEARINGS  
DOUBLE LEAF TRUNNION BASCULE BRIDGE  
OVER  
THE ILLINOIS WATERWAY  
AT  
RUBY ST JOUET, ILL.

DESIGNED BY  
THE SCHERZER ROLLING LIFT BRIDGE CO.  
MONROE BLOCK, CHICAGO, ILL.

DRAWN BY L.E.  
TRACED BY A.D.  
CHECKED BY L.E.  
REVISED SEPT. 11, 1933.

SCALE: AS NOTED  
DATE: FEB. 23, 1933

SHEET NO. 1343-48

FILE NAME =	USER NAME = midyjo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUBY STREET OVER DES PLAINES RIVER SN 099-9901	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 7/1/2009	DATE -	REVISED -			SCALE:	SHEET NO. 25 OF 30 SHEETS	STA.	TO STA.		

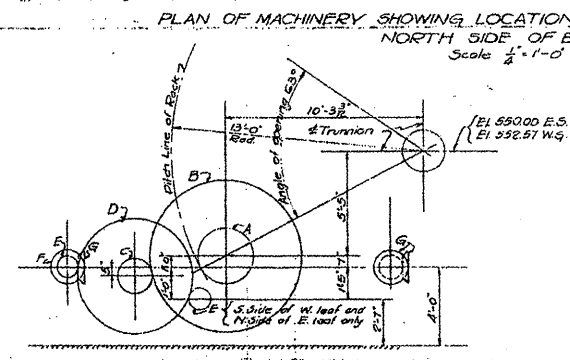
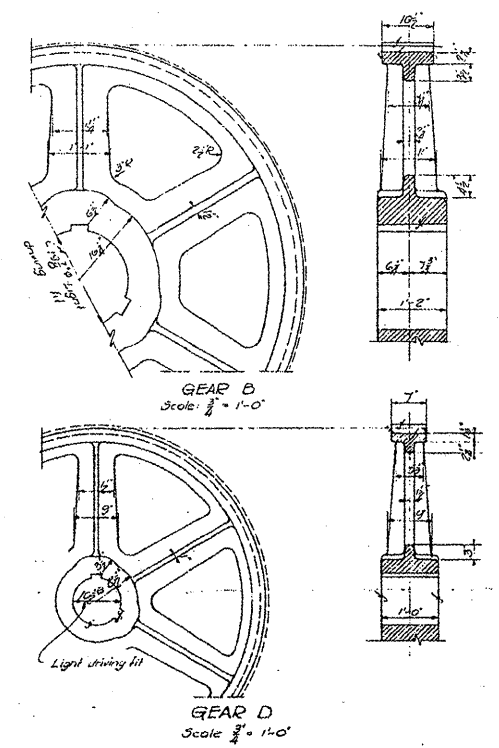
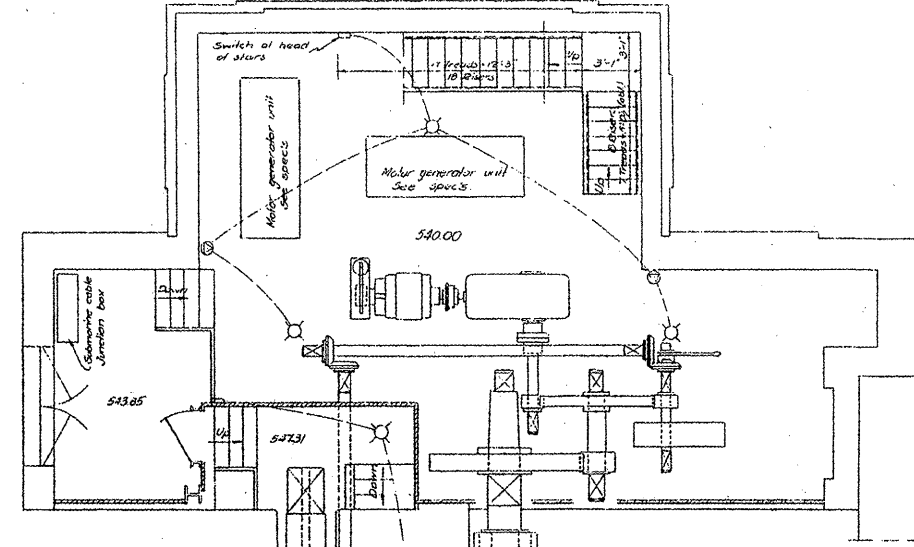
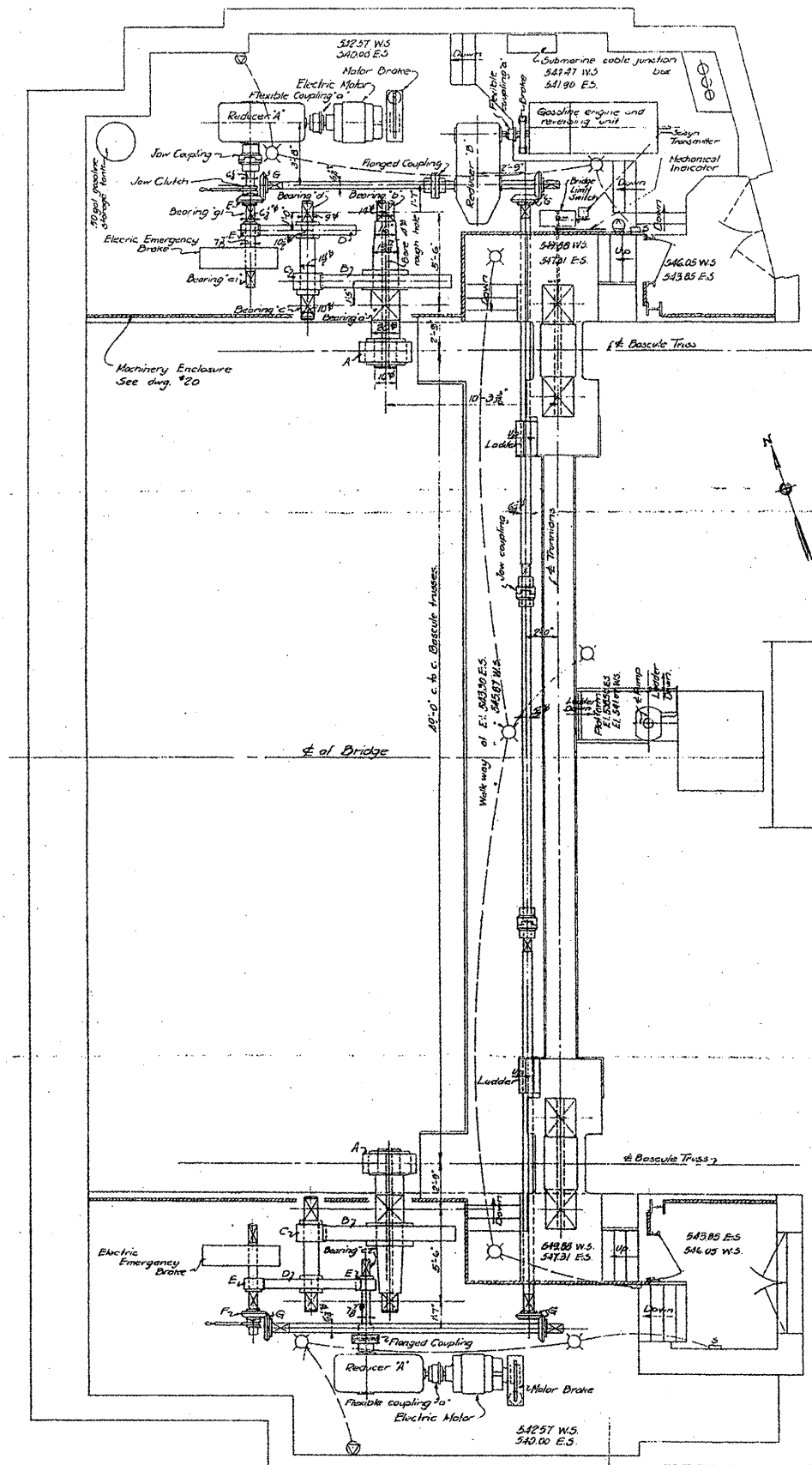
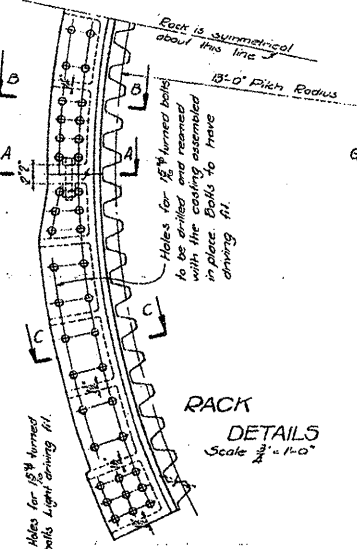


TABLE OF GEARS - PER LEAF

GEAR	HAZARD	NOTES	PITCH	WHEEL DIA.	FACE	TEETH	KEYS PER GEAR
A	2	29	7 C.P.	26'-0"	1'-3"	Special 20° Involute (see detail sh. 14)	2-2 1/2 x 2 1/2
B	2	15	7 C.P.	33'-2"	1'-2"	do	2-2 1/2 x 2 1/2
C	2	15	4 1/2 C.P.	21'-8"	11"	do	2-1 1/2 x 1 1/2
D	2	75	3 C.P.	71'-6"	7"	Standard 20° Involute sh. 10	2-1 1/2 x 1 1/2
E	3	15	3 C.P.	14'-2"	7"	do	1-1 1/2 x 1 1/2
F	2	22	1 D.R.	22"	4"	M 1/2 standard	Loose on shaft
G	C	22	1 D.R.	22"	4"	do	2-1 1/2 x 1 1/2

\* Bevel gears



GENERAL NOTES:  
Pinion A may be made of cast steel all other pinions shall be forged.  
All castings and forgings shall be made of steel and shall be annealed.  
All gear pinions and racks shall have machine cut teeth and pitch lines plainly marked on both sides.  
All shafts over 3" shall be forged, others may be cold rolled.  
Shafts shall be tapered keys shall be used where possible.  
Thickness of keys given are for small end.  
Shanks of turned bolts shall be 1/8" longer than the threaded ends and shall have lock nuts unless otherwise noted.  
All bearings shall be provided with Alenite-Del Magul fittings or equal and grooved for lubrication except where self lubricating bushings are specified.  
Dabbified bearings shall have rolled cores.  
All couplings are to be furnished by machinery contractor.

EQUIPMENT

Motor Generator Units:  
75 H.P. A.C. Motor, 3 Ph. G.O.C., 440V. and generator G.E. Co. or equal.

Operating Motors:  
50 H.P. @ 850 R.P.M. D.C. Motor, 230V. G.E. Co. Frame # CO 1030 or equal.  
Torque requirements: 550' for 2 min. - 1000' momentarily.

Motor Drives:  
G.E. floor mounted Thruster Drive # CR 9216-464 or equal.  
Retarding torque 375'. Provide interlocked hand release.

Electric Emergency Brake:  
G.E. floor mounted Thruster Drive # CR 9216-467 or equal.  
Holding torque 5000'. Provide interlocked hand release.

Reducer A:  
Falk # 10 D.S. right angle speed reducer or approved equal.  
Reduction ratio 24 to 1. Speed reducer to be assembled with motor on C.I. or welded steel bed plates. Price of same to be included in lump sum price for speed reducers. Bed ps. to be of minimum width and length.

Reducer B:  
Falk # 11 DA parallel shaft speed reducer with equalizer, or approved equal.  
Reduction ratio 10 to 1.

Gasoline engine, reversing unit and brake:  
38 H.P. @ 800 R.P.M. gasoline engine with reversing unit having 7 to 5 reduction ratio and attached brake of 250' holding torque. Norwood-Norton Co. unit # 55-1 or approved equal. This unit shall be furnished complete with all accessories.

Flexible coupling "a"  
Falk # 3 or equal.

Note: Manufacturers of speed reducers shall furnish complete details of the speed reducers for approval.  
Complete details of the gasoline engine reversing units and attached brakes shall be furnished.

**FOR INFORMATION ONLY**

OPERATING MACHINERY  
DOUBLE LEAF TRUNNION BASCULE BRIDGE  
OVER  
THE ILLINOIS WATERWAY  
AT  
RUBY ST. JOLIET, ILLINOIS

DESIGNED BY  
THE SCHERZER ROLLING LIFT BRIDGE CO.  
MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY ALND  
TRACED BY A.D.  
CHECKED BY EE

SCALE: AS NOTED  
DATE: FEB. 21 1933  
SHEET NO. 1243

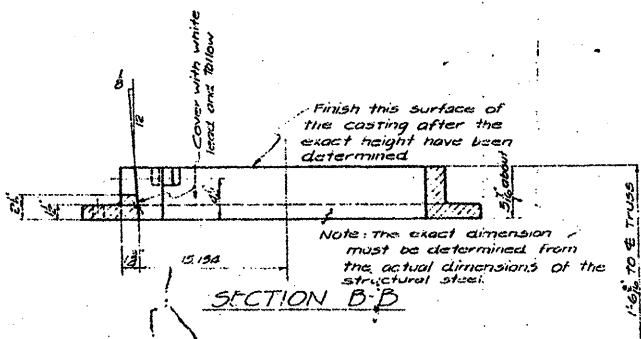
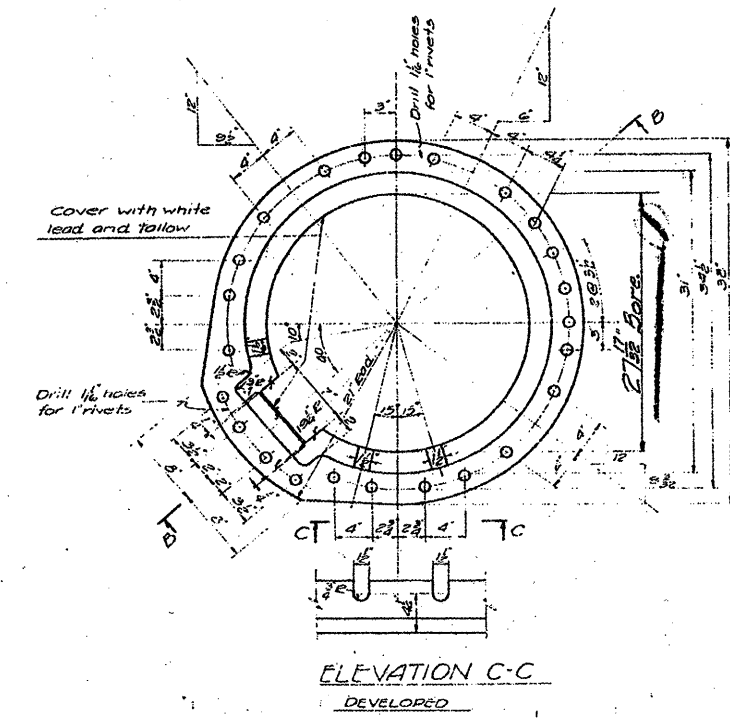
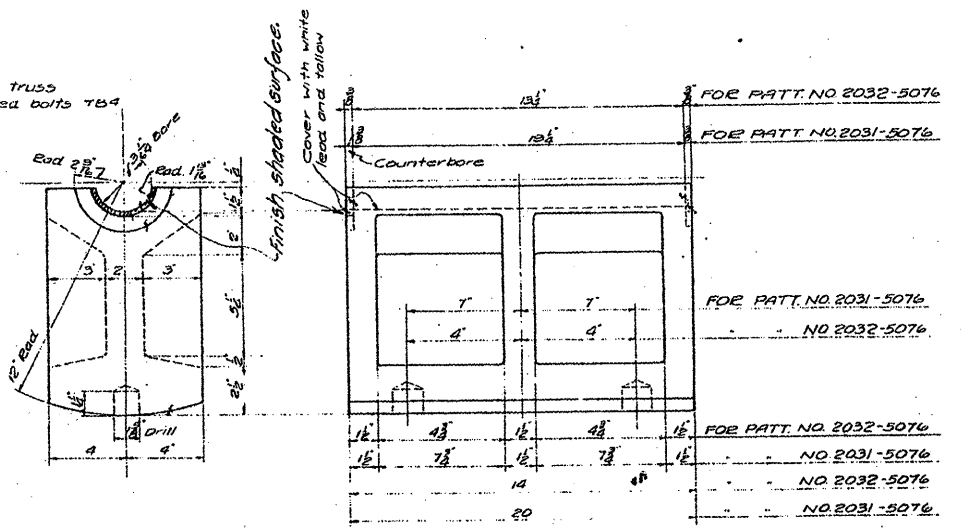
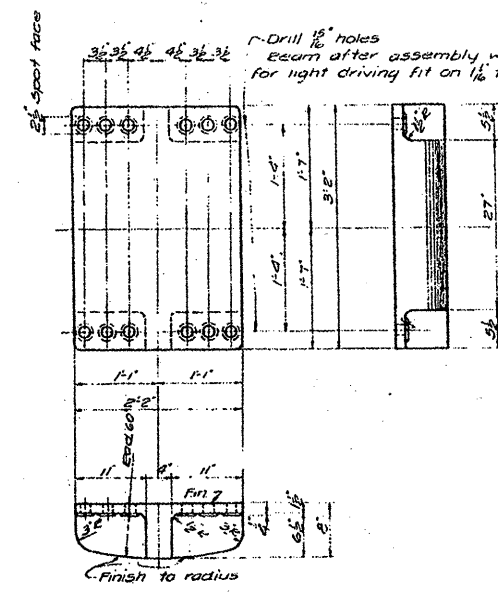
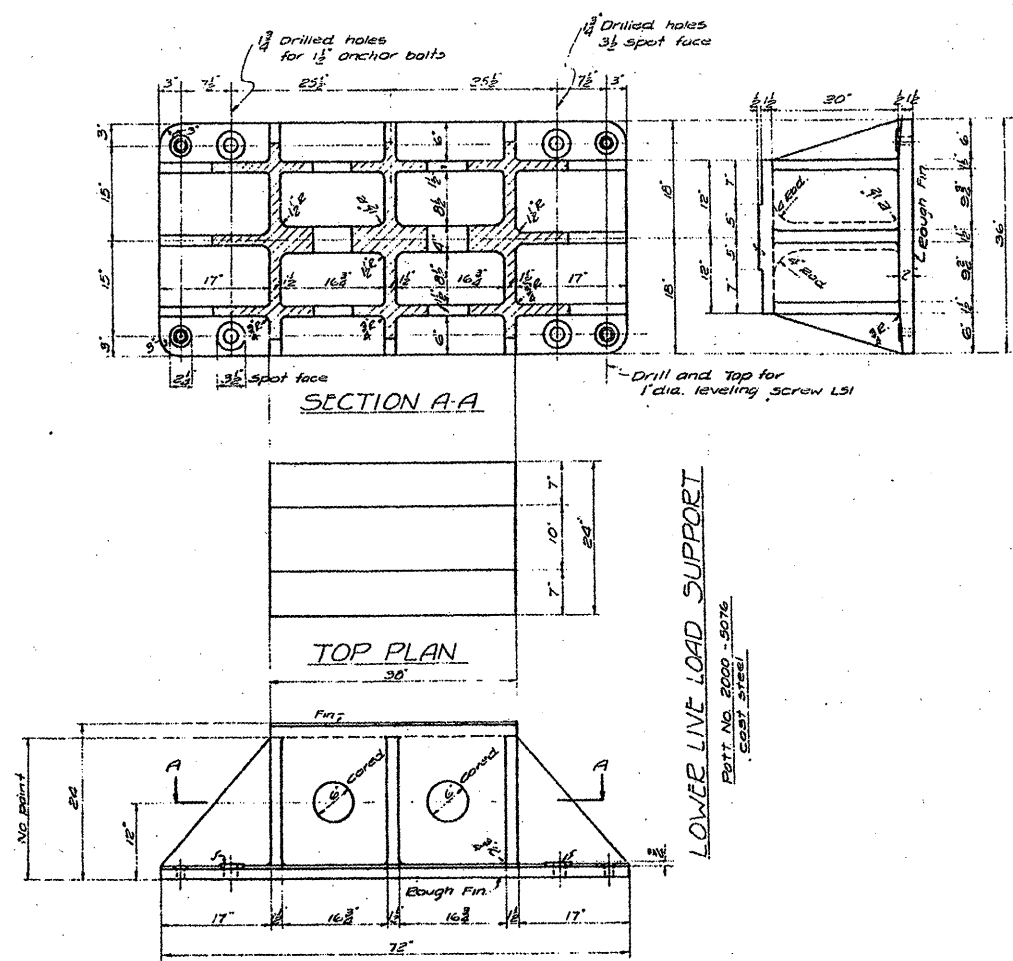
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER  
SN 099-9901

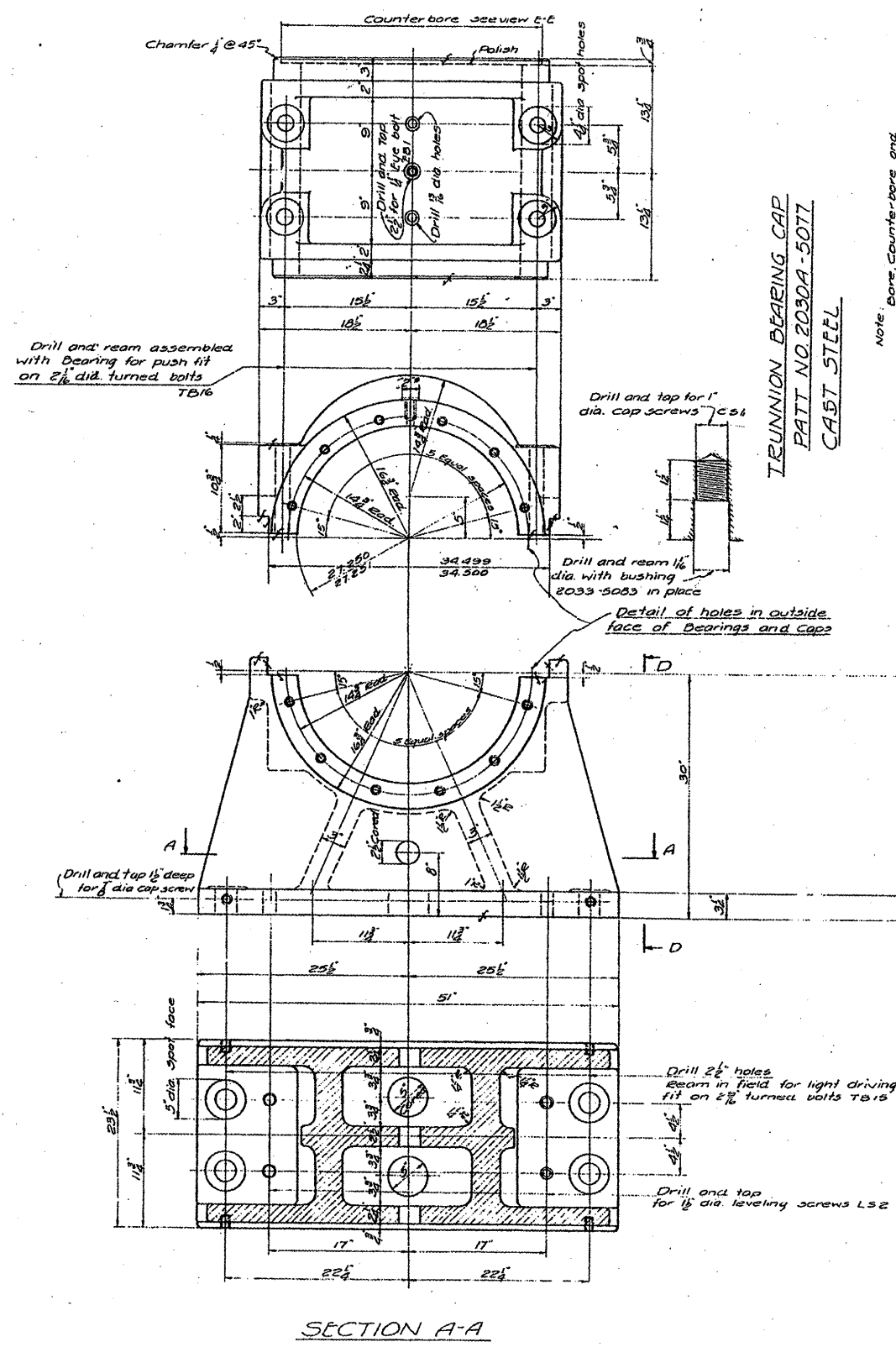
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62714	
ILLINOIS FED. AID PROJECT				



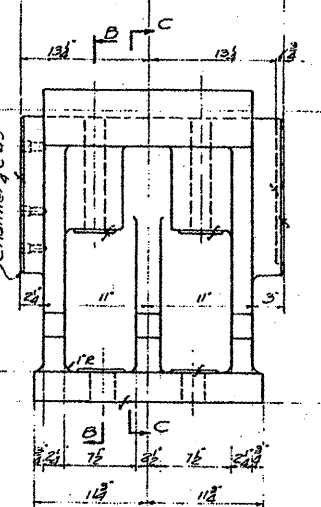
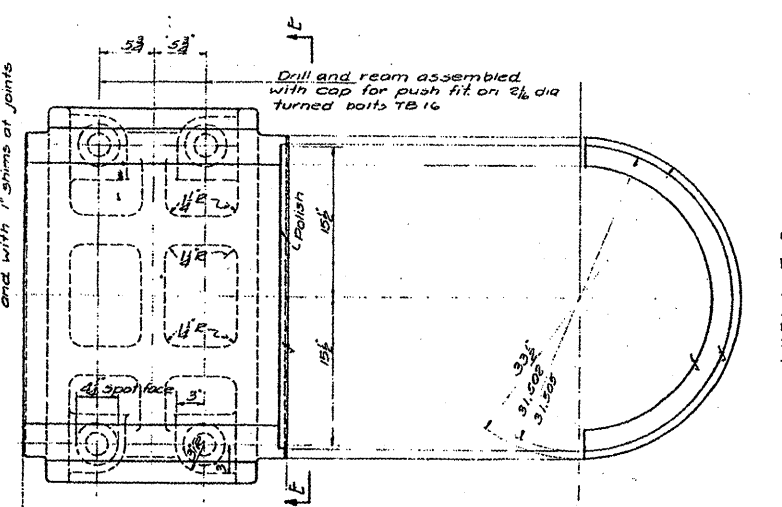
**FOR INFORMATION ONLY**

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PLOT DATE = 7/1/2009	DATE	CHECKED -	REVISED -			CONTRACT NO. 62714						
		DATE	REVISED -									



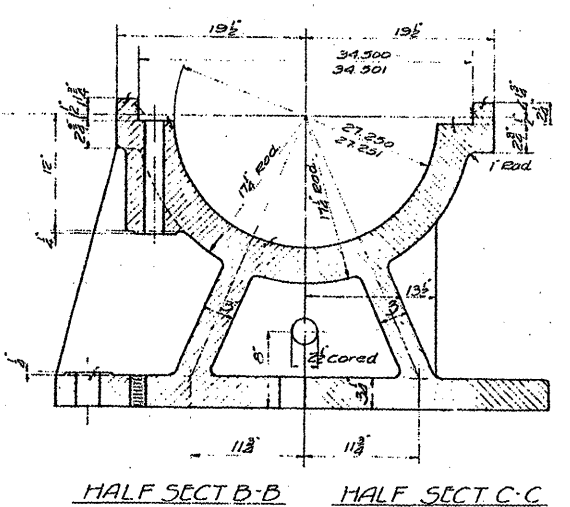
TRUNNION BEARING CAP  
PATT NO. 2030A-5077  
CAST STEEL

Note: Bore, counter-bore and face ends of casting with bearing and caps assembled and with 1" shims at joints



TRUNNION BEARING  
PATT NO. 2030-5077  
CAST STEEL

NOTE: Match mark bearings, caps, bushings and shims and ship assembled. Cover finished surfaces with white lead and tallow.

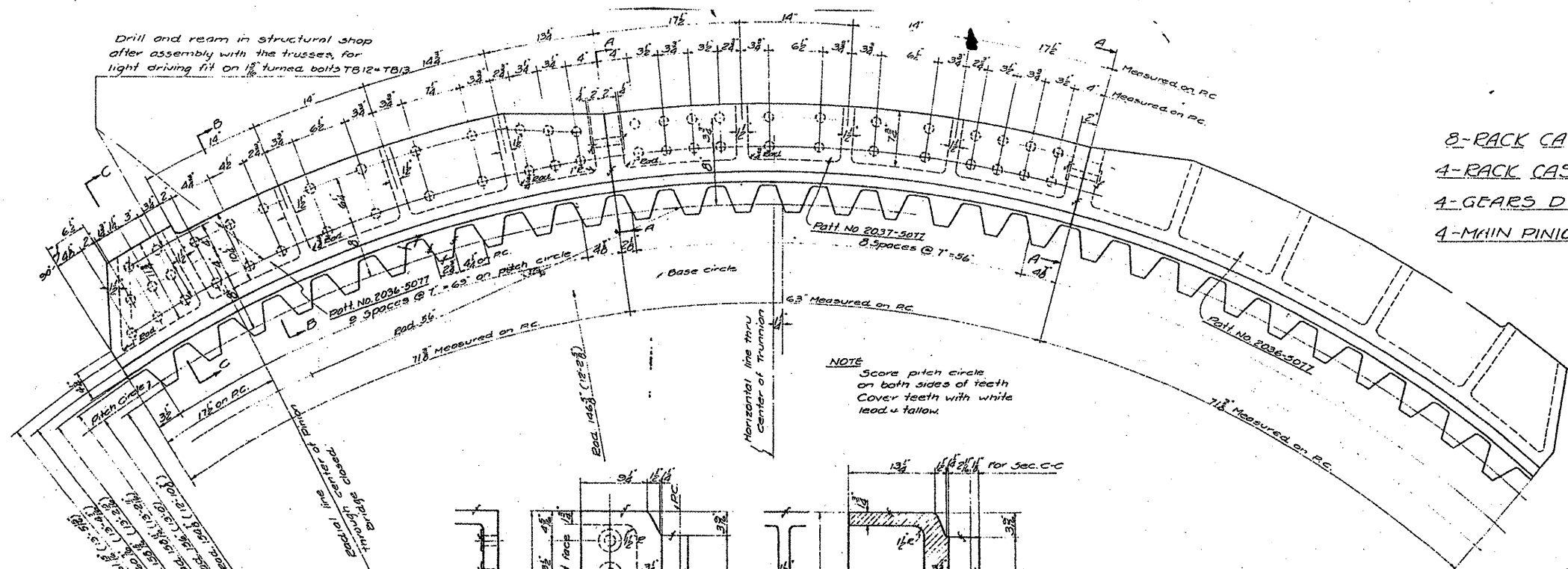


**FOR INFORMATION ONLY**

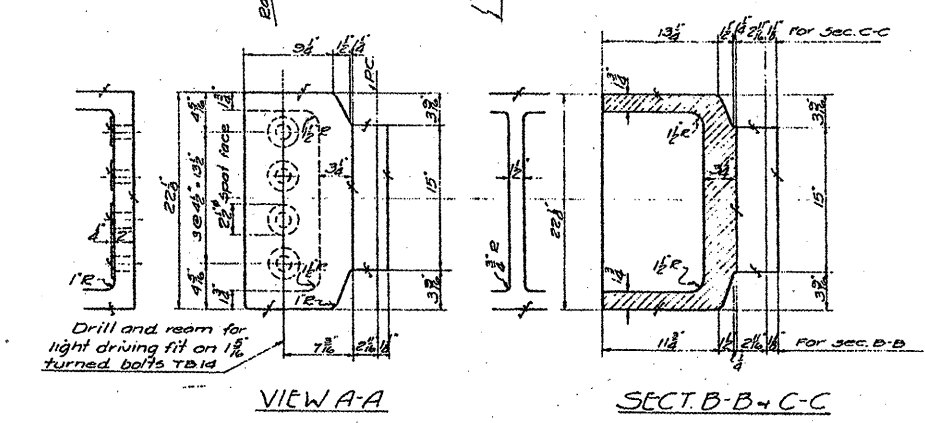
- REQUIRED LIST
- 8-TRUNNION BEARINGS PATT NO. 2030-5077
  - 8- " BEARING CAPS PATT NO. 2030A-5077

NOTE: All castings to be Class B Medium grade - annealed A.S.T. MAR 27-24 Std. 1930

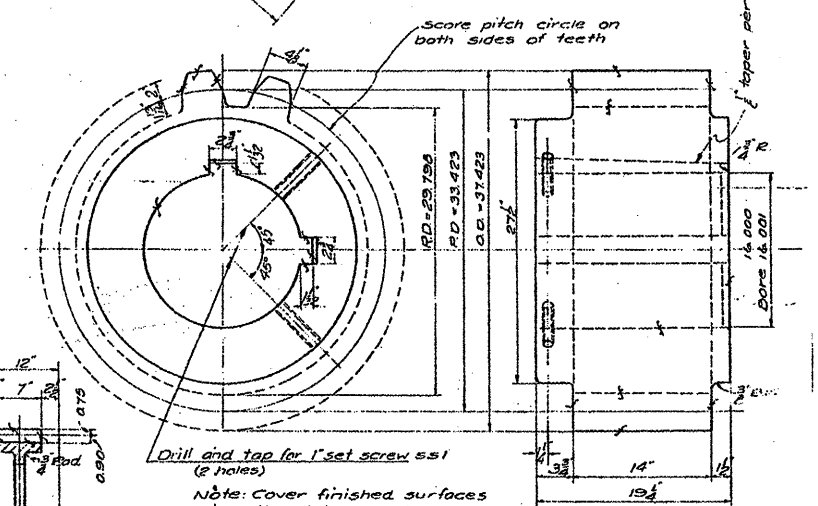
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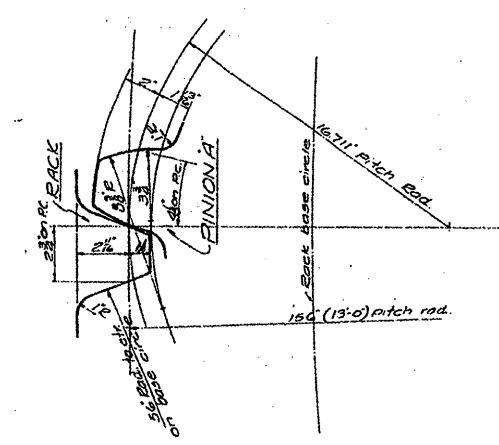
- REQUIRED**
- 8-RACK CASTINGS PATT. NO. 2036-5077
  - 4-RACK CASTINGS PATT. NO. 2037-5077
  - 4-GEARS D PATT. NO. 2038-5077
  - 4-MAIN PINIONS PATT. NO. 2039-5077



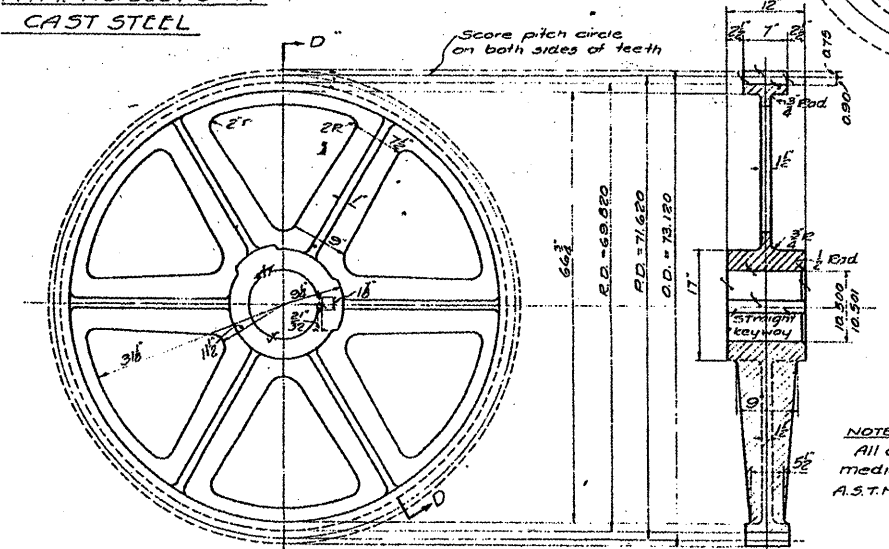
**RACK CASTINGS**  
 PATT. NO. 2036-5077  
 PATT. NO. 2037-5077  
 CAST STEEL



**15 SPECIAL 20° INVOLUTE TEETH T.C.P.**  
**MAIN PINION A**  
 PATT. NO. 2039-5077 - RIGHT & LEFT HAND  
 CAST STEEL



**PROFILES OF RACK AND PINION A TEETH**  
 20° INVOLUTE CUT TEETH



**GEAR D**  
 PATT. NO. 2038-5077  
 CAST STEEL

**FOR INFORMATION ONLY**

FILE NAME =	USER NAME = midjjo	DESIGNED - RTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RUBY STREET OVER DES PLAINES RIVER SN 099-9901</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 7/1/2009	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				

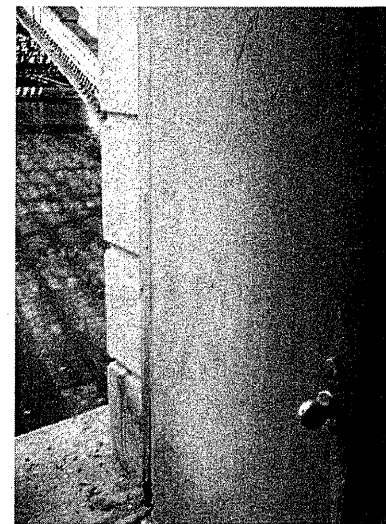


**Mechanical Room Doors**

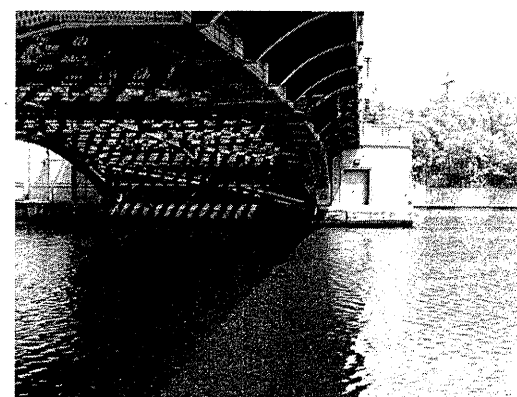
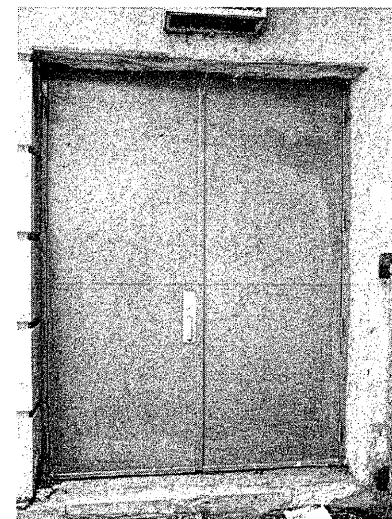
There are four sets of double doors (exterior) for the mechanical rooms on either side of the bridge that shall be painted.

There are two interior doors on each side (4 total) that shall be painted.

The fiberglass wall jackets will not need painting, but the interior of all the mechanical rooms walls need to be power washed/steam cleaned per Art. 592.03 of the "Standard Specifications". All mechanical and electrical equipment shall be protected. Cost of cleaning walls included in cost of "Bridge Tender House Rehabilitation".



NOTE: The door on the northwest side; exterior; the locks shall be replaced. Cost included in the cost of "Bridge Tender House Rehabilitation".



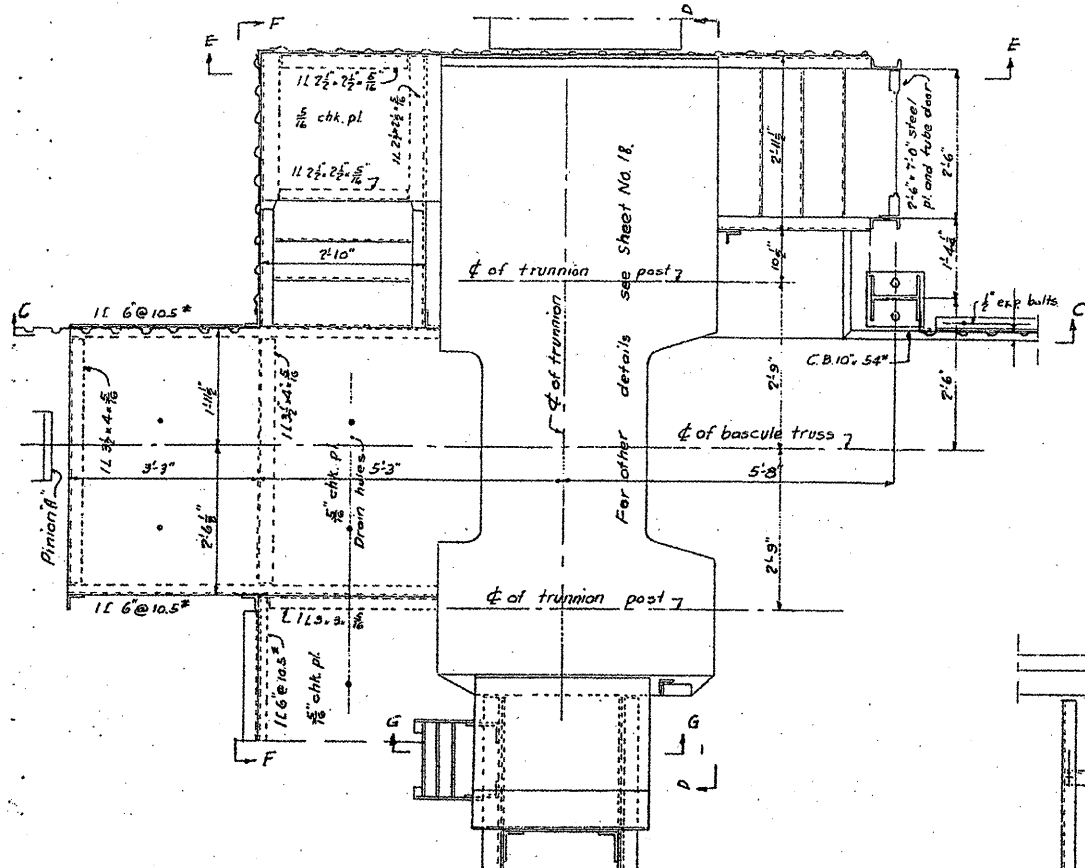
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	PLOT DATE = 7/11/2011	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

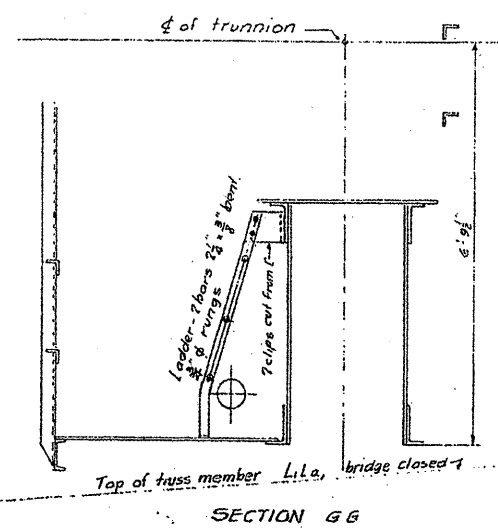
**RUBY ST OVER DES PLAINES RIVER  
SN 099-9901**

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

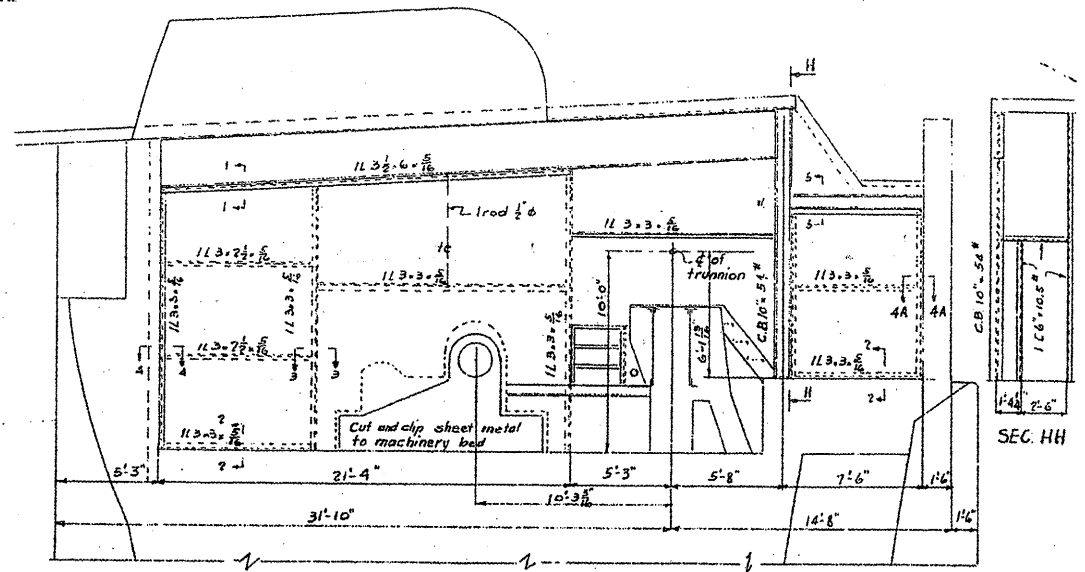
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				<b>CONTRACT NO. 62714</b>
ILLINOIS FED. AID PROJECT				



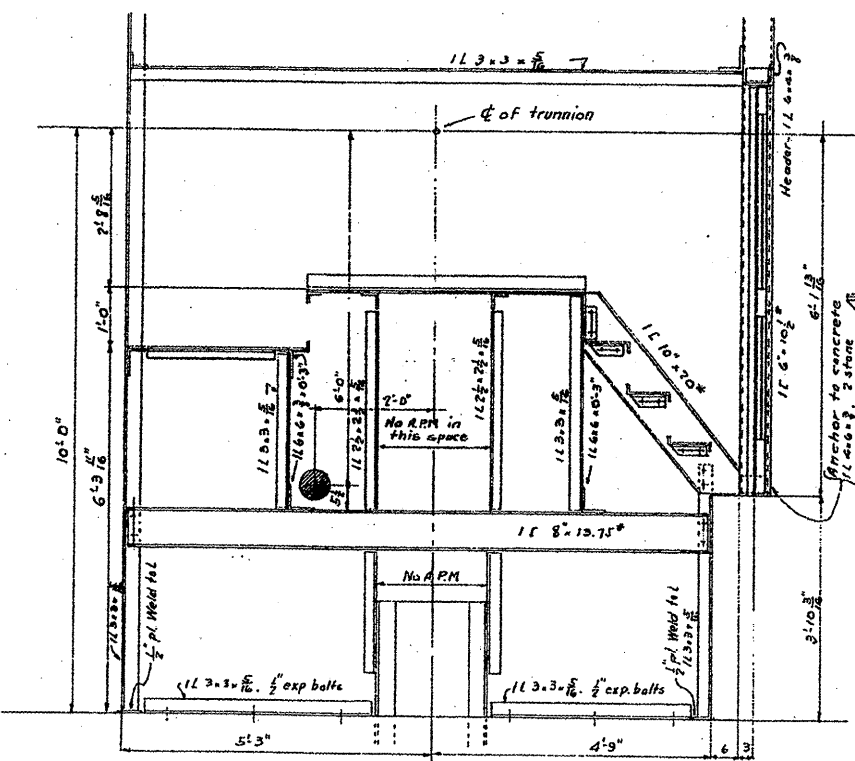
PLAN OF PLATFORMS AND STAIRS AT SOUTHEAST TRUNNION  
OTHERS SIMILAR.



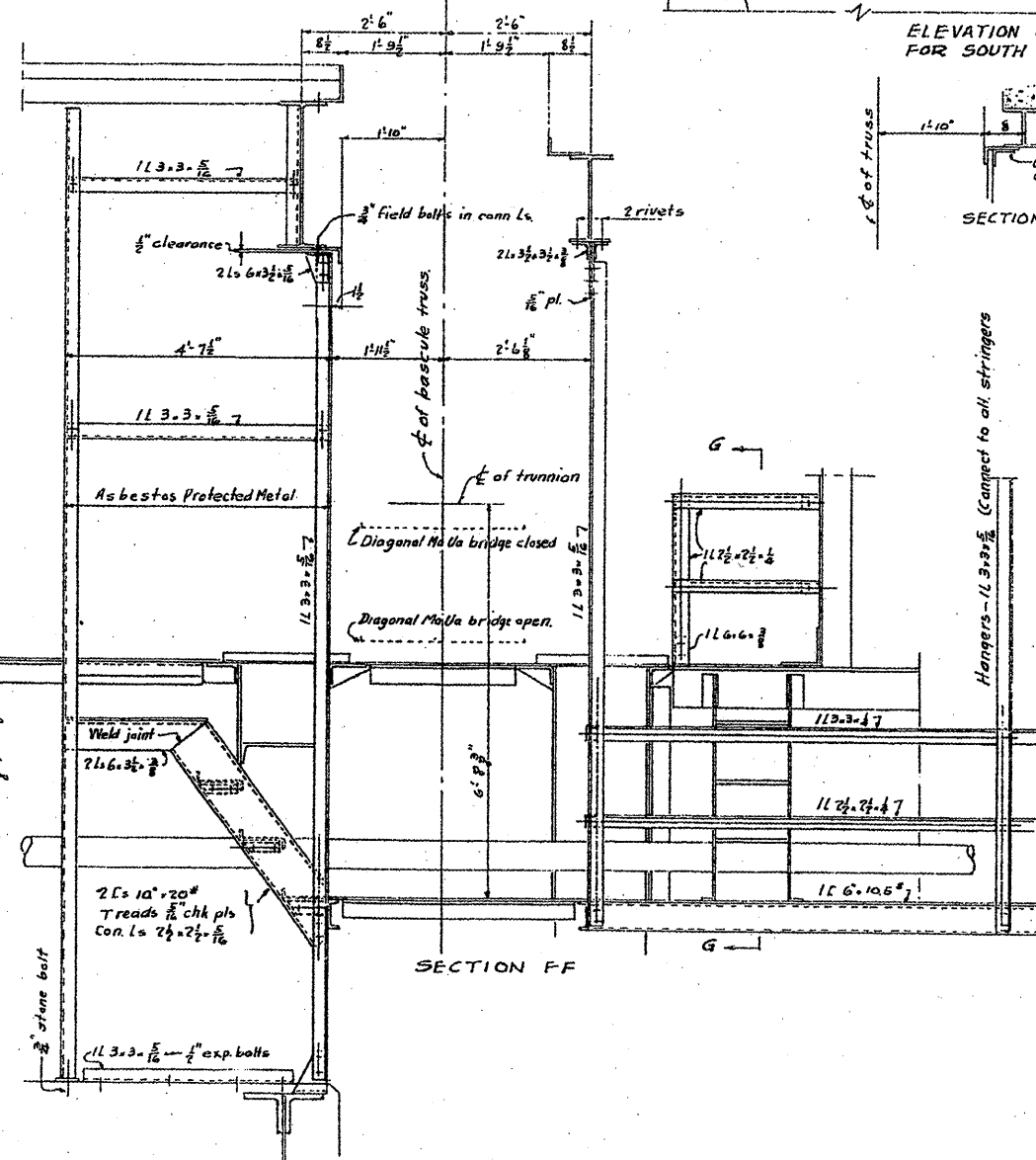
SECTION G G



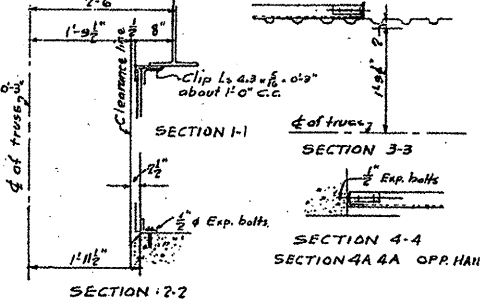
ELEVATION OF MACHINERY ENCLOSURE  
FOR SOUTH SIDE OF EAST PIER. OTHERS SIMILAR



SECTION E E



SECTION F F



For Section C C, see Sheet No. 17  
For Section D D see Sheet No. 18.

**FOR INFORMATION ONLY**

MACHINERY ENCLOSURES  
PLATFORMS AND STAIRS  
DOUBLE LEAF TRUNNION BASCULE BRIDGE  
OVER  
THE ILLINOIS WATERWAY  
AT  
RUBY ST. JOLIET, ILL.

DESIGNED BY  
THE SCHERZER ROLLING LIFT BRIDGE CO.  
MONADNOCK BLOCK, CHICAGO, ILL.

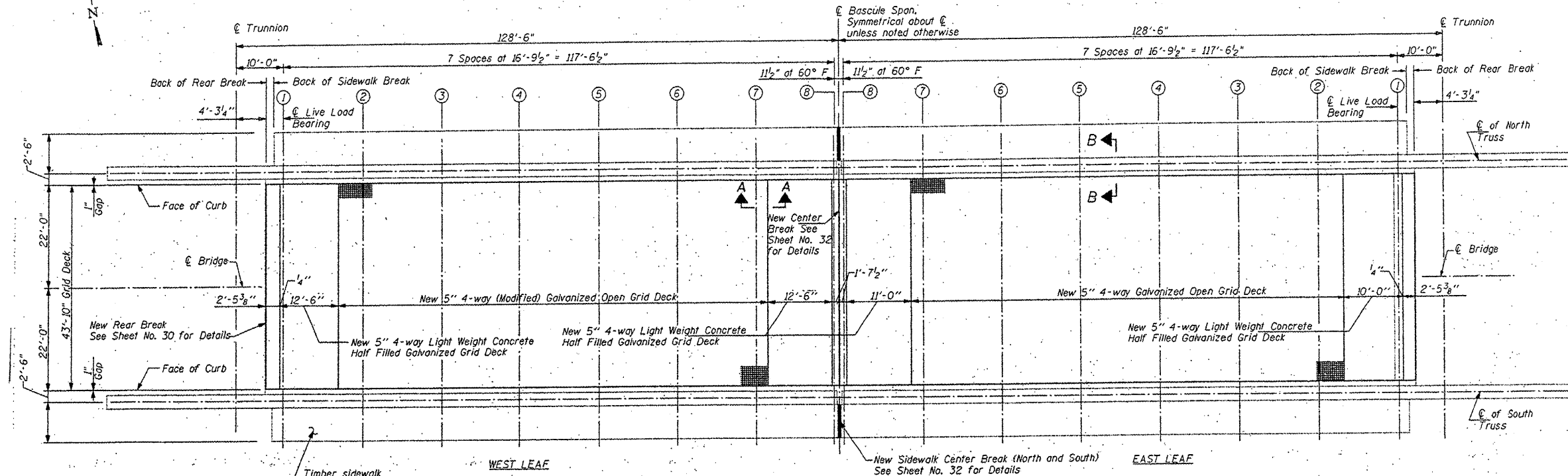
DRAWN BY A.L.R.  
TRACED BY G.A.K.  
CHECKED BY I.C.

SCALE: 1/4\"/>

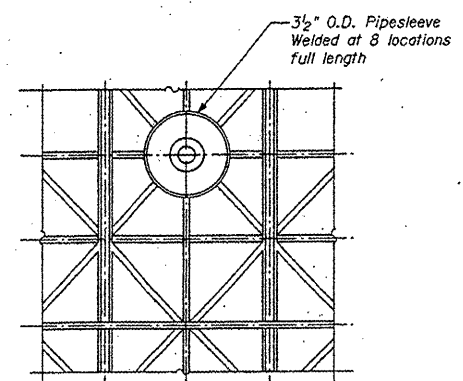
FILE NAME :	USER NAME = midjo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUBY STREET OVER DES PLAINES RIVER SN 099-9901	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
aa.dgn		RTB				112	M-BDR-1	WILL	66	39
PLOT SCALE = 1/8\"/>										
PLOT DATE = 6/27/2009						CONTRACT NO. 62714		ILLINOIS FED. AID PROJECT		



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

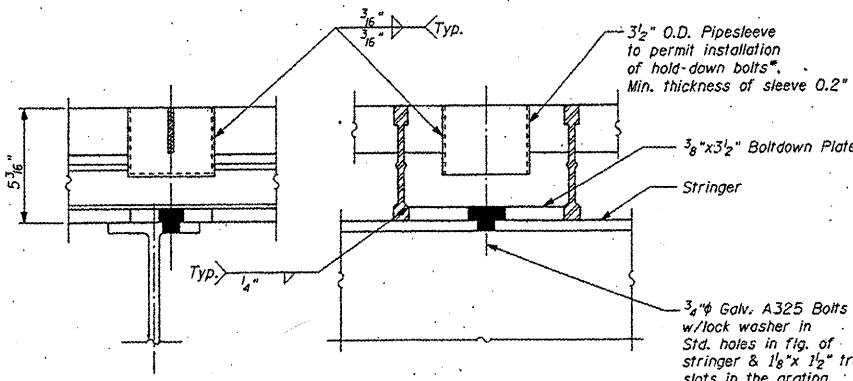


FRAMING PLAN - MOVABLE SPANS



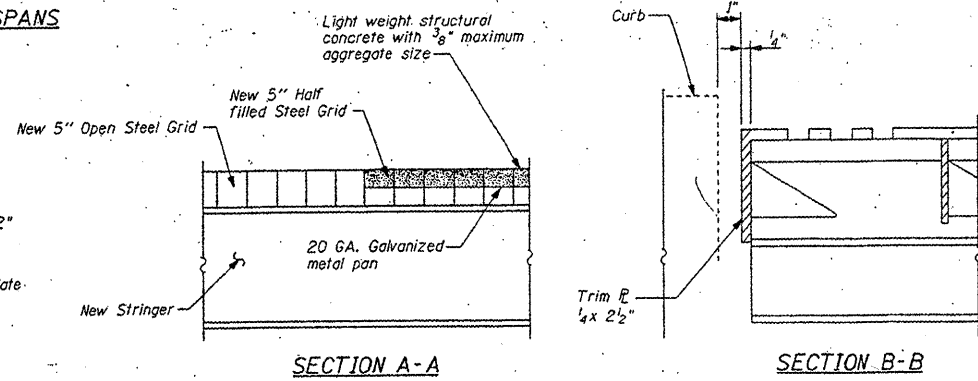
TYPICAL GRATING BOLTDOWN DETAIL

Cost of bolt-down plate and pipe sleeves is included in the cost of Furnishing and Erecting 5" Grid Deck



Note: Extend sleeve down and omit form pan to Bolt-down Plate for Half-filled Grating

Note: Roadway markings shall also be restriped on the deck after the new grid is in place.



Item	Unit	Quantity
5" Grid Deck	Sq. Ft.	10,666

LEGEND:  
 — Existing Member to Remain  
 — New Member

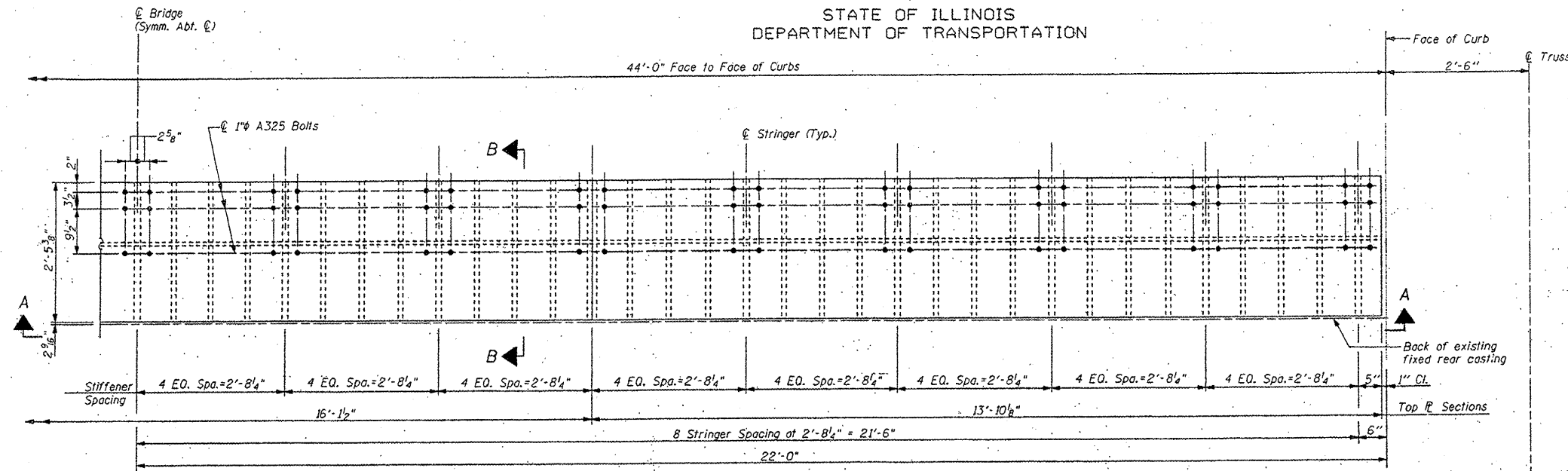
BILL OF MATERIALS

ITEM	UNIT	QUANTITY
STEEL GRID DECK REPAIRS	L SUM	1

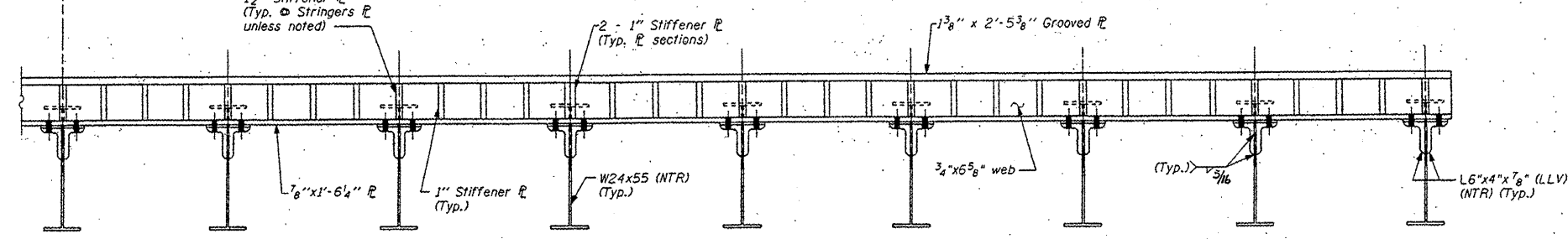
MOVABLE PART  
ROADWAY GRATING PLAN & DETAILS  
RUBY STREET (F.A.P. 112) OVER  
DES PLAINES RIVER  
WILL COUNTY  
STRUCTURE NUMBER 099-9901

FILE NAME: c:\pwwork\pwwork\midjje\8148931\0111504-shs-plan.dgn	USER NAME: midjje	DESIGNED: <b>RBB</b>	REVISED:	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUBY STREET OVER DES PLAINES RIVER STEEL GRID DECK REPAIR	F.A.P. RTE. 112	SECTION M-BDR-1	COUNTY WILL	TOTAL SHEETS 66	SHEET NO. 40	CONTRACT NO. 62714
PLOT SCALE: 1/8" = 1'-0"	PLOT DATE: 6/23/2011	DRAWN:	CHECKED:	DATE:	SCALE:	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			

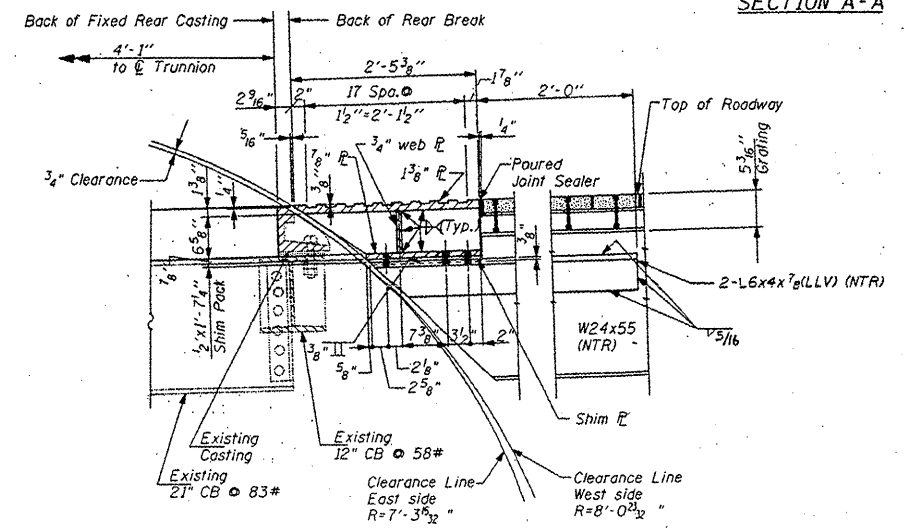
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



PLAN - REAR BREAK



SECTION A-A



SECTION B-B

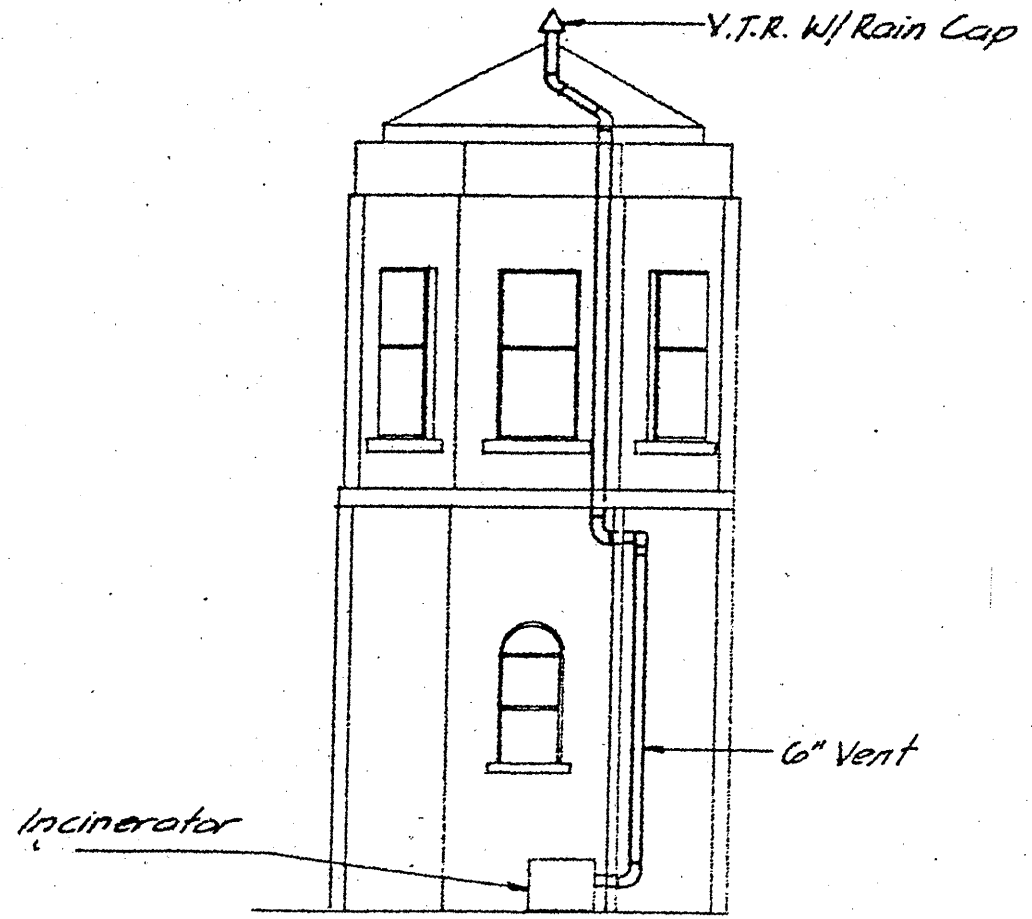
**LEGEND**  
 (---) Existing member to remain  
 (—) New member

MOVABLE PART  
REAR BREAK DETAILS  
RUBY STREET (F.A.P.112) OVER  
DES PLAINES RIVER  
WILL COUNTY  
STRUCTURE NUMBER 099-9901

**FOR INFORMATION ONLY**

FILE NAME =	USER NAME = mdyjo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUBY STREET OVER DES PLAINES RIVER SN 099-9901	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cr:\pw\work\pwwork\mdyjo\0148931\011158	sht-plan.dgn	DRAWN -	REVISED -			112	M-BDR-1	WILL	66	41	
PLOT SCALE = 1/8" = 1'-0"		CHECKED -	REVISED -			CONTRACT NO. 62714					
PLOT DATE = 6/23/2011		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE:		SHEET NO. 2 OF 2 SHEETS		STA.		TO STA.	

ELECTRIC INCINERATING TOILET - INCINOLET MODEL TR OR APPROVED EQUAL  
 COMPLETE WITH 3.75KW INCINERATOR COIL,  
 AUTOMATIC CYCLE, 5" GALVANIZED STEEL VENT TO  
 ROOF, ROOF CAP AND ROOF FLASHING. FURNISH 5  
 CARTONS (200/CARTON) MANUFACTURERS BOWL  
 LINERS, INSTALL IN STRICT ACCORDANCE WITH  
 MANUFACTURERS INSTALLATION INSTRUCTIONS.  
 OPERATING VOLTAGE SHALL BE 208V/1 PHASE.



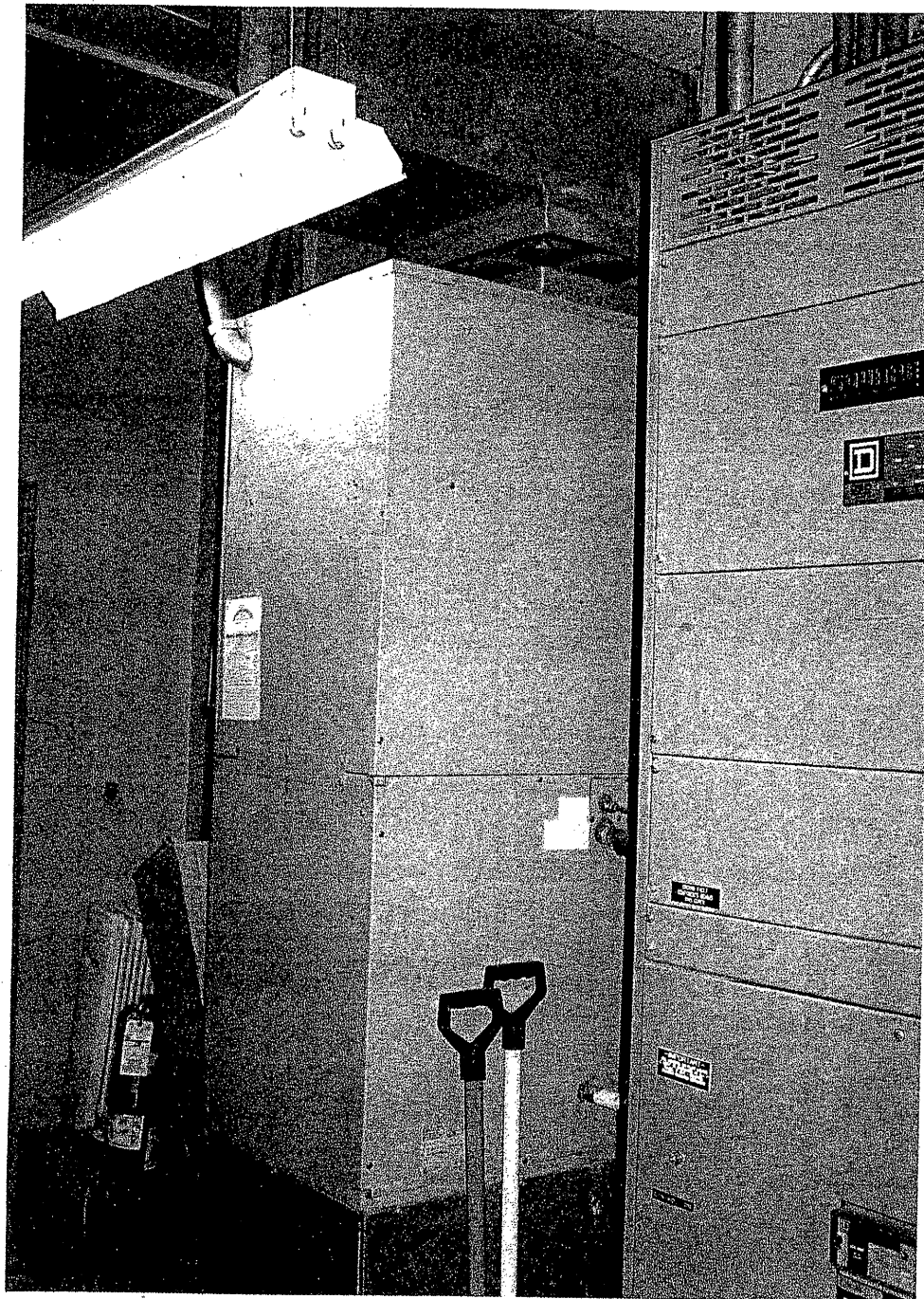
**INCINERATOR TOILET VENT**

**NOTE:**

REMOVE AND REPLACE ELECTRIC INCINERATING TOILET IN-KIND.

COST OF REMOVING AND REPLACING ELECTRIC INCINERATING TOILET INCLUDED IN THE COST OF BRIDGE TENDER HOUSE REHABILITATION.

FILE NAME =	USER NAME = mdyjo	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RUBY STREET OVER DES PLAINES RIVER ELECTRIC INCINERATING TOILET</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cr\pr_work\pndot\mdyjo\0148931\0111594-ehs-plan.dgn	DRAWN -	REVISED -	112			M-BDR-1	WILL	66	42	
PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -	CONTRACT NO. 62714							
PLOT DATE = 5/25/2011	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
					SCALE:	SHEET NO. 1 OF 5 SHEETS		STA.	TO STA.	



EXISTING  
ELECTRIC FURNACE -

EXISTING  
AIR COOLED CONDENSING UNIT -  
WITH MATCHING EVAPORATOR COIL

EQUIPMENT SCHEDULE

LENNOX E1203-20 OR APPROVED EQUAL  
PERFORMANCE CHARACTERISTICS  
HEATING - 55,400 BTUH, 16.9 KW WITH 4 STEPS  
OF CONTROL  
BLOWER - 1400 CFM @ 0.3" EXTERNAL TO UNIT  
INCLUDING EVAP. COIL AND FILTER WITH 1/3  
H.P. MOTOR  
ELEC. - 208V/1 PHASE/60CY.

LENNOX HS18-413 WITH CP12-41Y COIL OR  
APPROVED EQUAL  
PERFORMANCE CHARACTERISTICS  
COOLING - 32,100 BTUH SEAS./35,000 BTUH  
TOTAL  
COIL E.A.T. - 79.1 DEG. F DB/65.6-DEG. F WB  
CONDENSING TEMP. - 95 DEG. F  
ELEC. - 460V/3 PHASE/60CY, COMPRESSOR  
RLA = 5.1 AMPS, CONDENSER FAN FLA = 0.7 AMPS  
EER 8.35 MIN.  
ACCESSORIES - 2 STAGE HEATING/1 STAGE  
COOLING THERMOSTAT

NOTE:

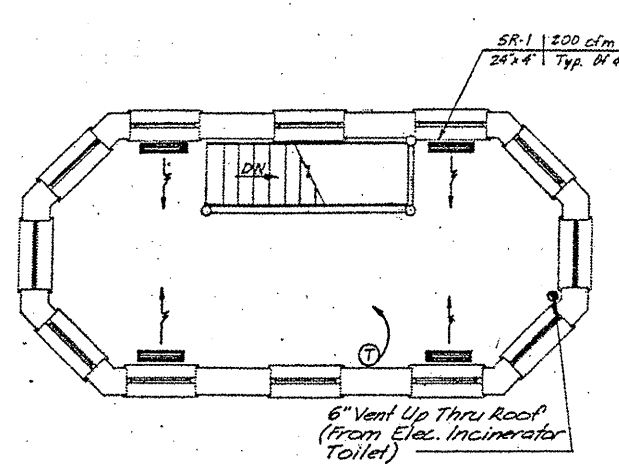
REPLACE EXISTING 55,400 BTU FURNACE WITH NEW 60,000 BTU (MINIMUM) FURNACE.  
REPLACE EXISTING AIR CONDITIONING UNIT.

NEW EQUIPMENT SHALL CONNECT TO EXISTING RETURN AND SUPPLY DUCT WORK

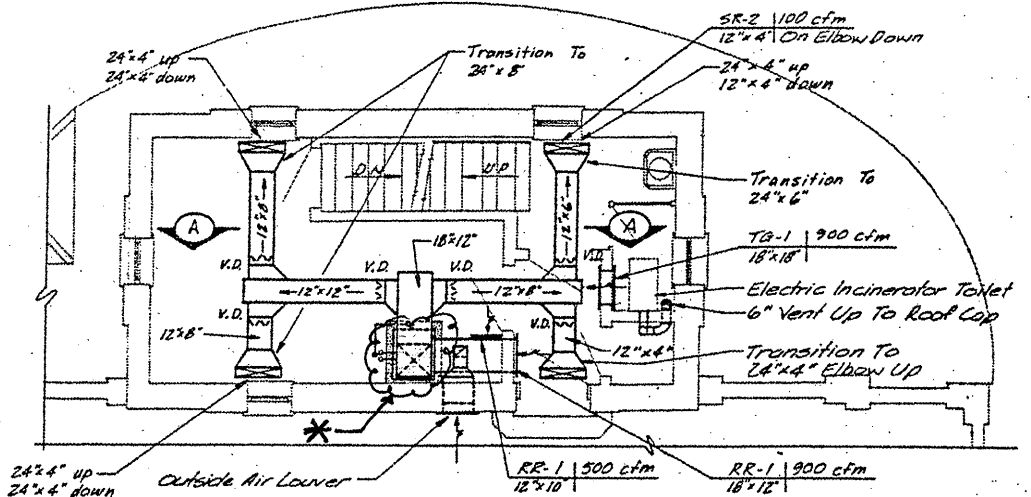
ANY MODIFICATIONS TO EXISTING DUCT WORK TO CONNECT TO NEW EQUIPMENT  
SHALL BE DONE AS PART OF THE INSTALLATION.

COST OF REPLACING FURNACE AND AC UNITS INCLUDED IN THE COST OF  
BRIDGE TENDER HOUSE REHABILITATION.

FILE NAME =	USER NAME = midyjo	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RUBY STREET OVER DES PLAINES RIVER REPLACE ELECTRIC FURNACE AND AIR CONDITIONING UNITS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
en:\pwwork\pwwork\midyjo\d0148931\0111904	shvt-plen.dgn	DRAWN -	REVISED -			112	M-BDR-1	WILL	66	43	
	PLOT SCALE = 1/8" = 1' / IN.	CHECKED -	REVISED -			CONTRACT NO. 62714					
	PLOT DATE = 5/25/2011	DATE -	REVISED -			SCALE:	SHEET NO. 2 OF 5 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

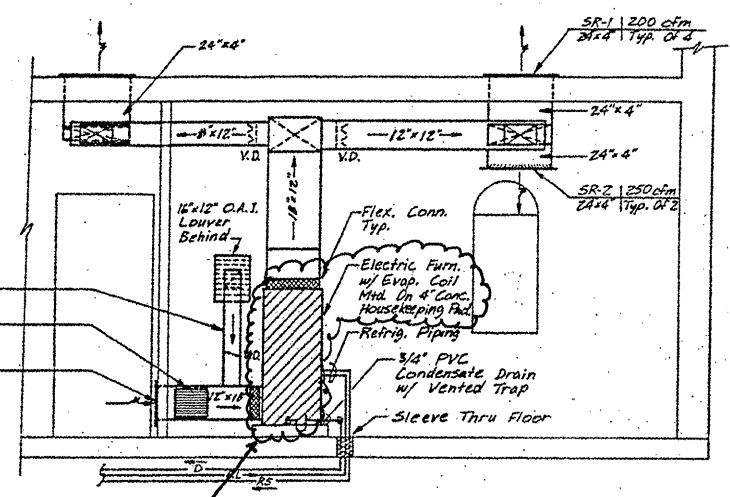


OPERATORS ROOM PLAN-2nd. FLOOR



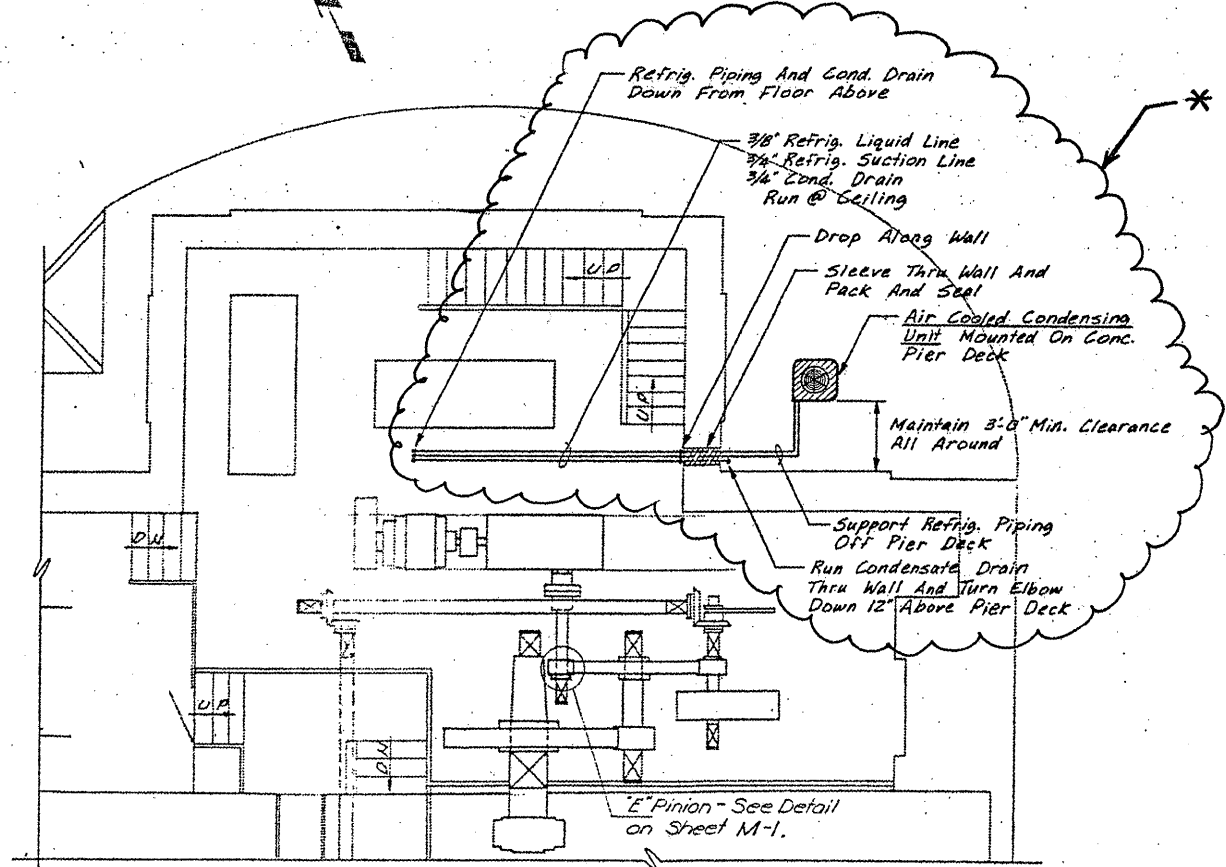
CONTROL ROOM PLAN-1st. FLOOR

OPERATORS HOUSE PLANS



SECTION A-A

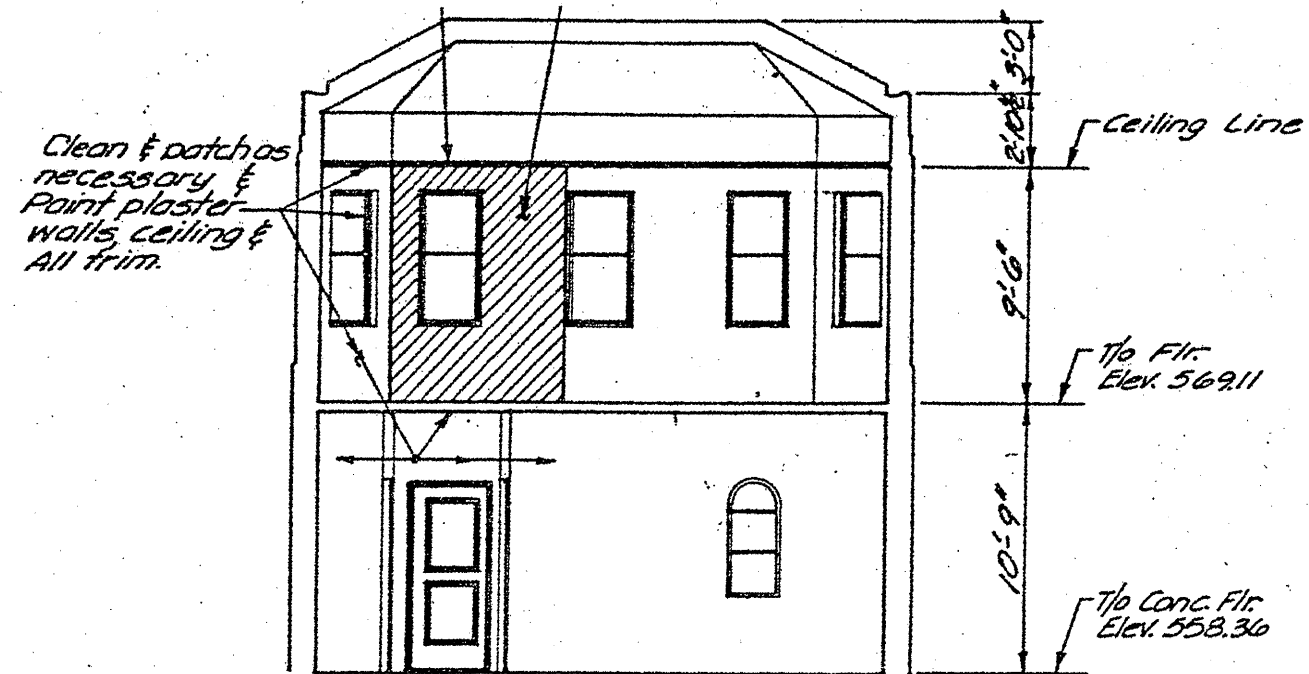
\* FURNACE & AC UNITS TO BE REPLACED



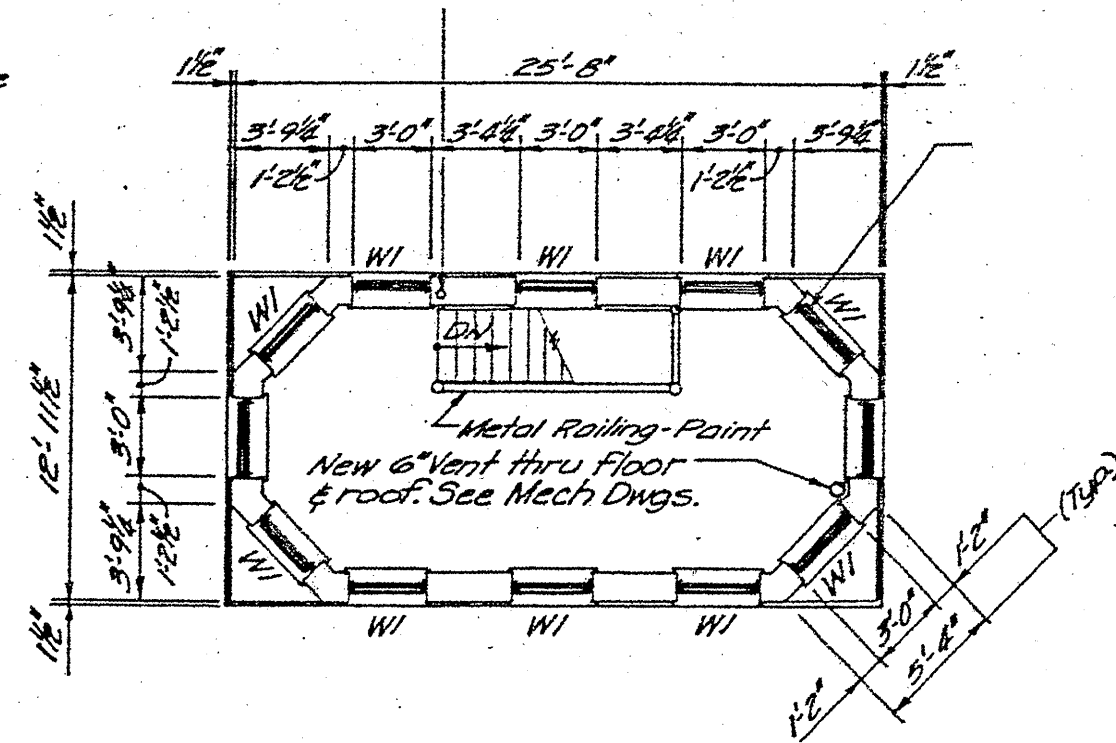
NEAR-SIDE MACHINERY / PIER PLAN

**FOR INFORMATION ONLY**

FILE NAME =	USER NAME = midyja	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RUBY STREET OVER DES PLAINES RIVER HEATING, VENTILATION AND AIR CONDITIONING</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pwk\work\pwidot\midyja\d0148931\011150	sht-plan.dgn	DRAWN -	REVISED -			112	M-BDR-1	WILL	66	44	
	PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -			CONTRACT NO. 62714					
	PLOT DATE = 5/25/2011	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



**INTERIOR SOUTH WALL ELEVATION**



**OPERATORS ROOM PLAN-2nd FLOOR**

**NOTE:**

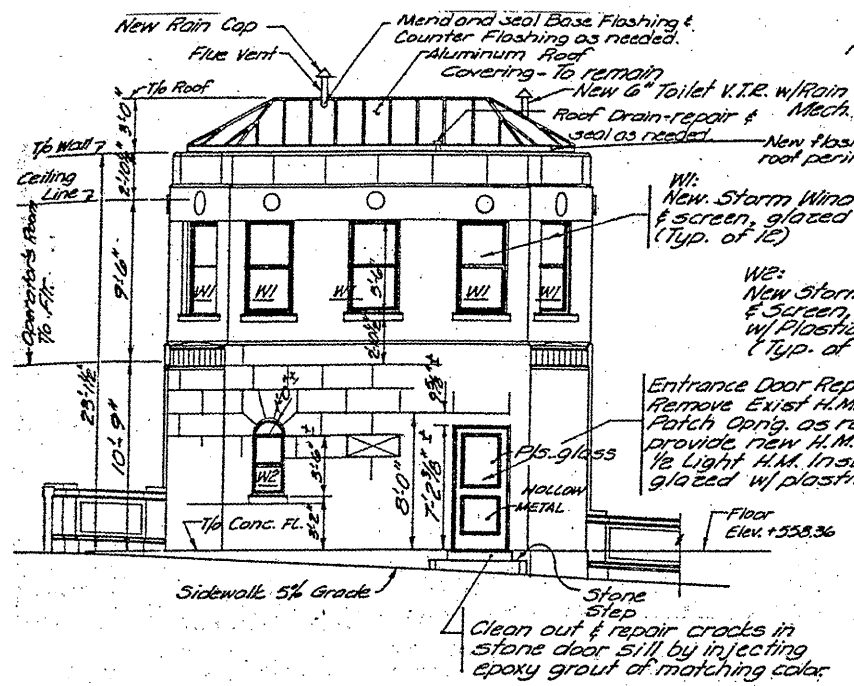
REMOVE AND REPLACE OR REPAIR PLASTER WALLS AND CEILING AS NECESSARY.

PAINT INTERIOR WALLS WHEN REPAIRS ARE COMPLETE.

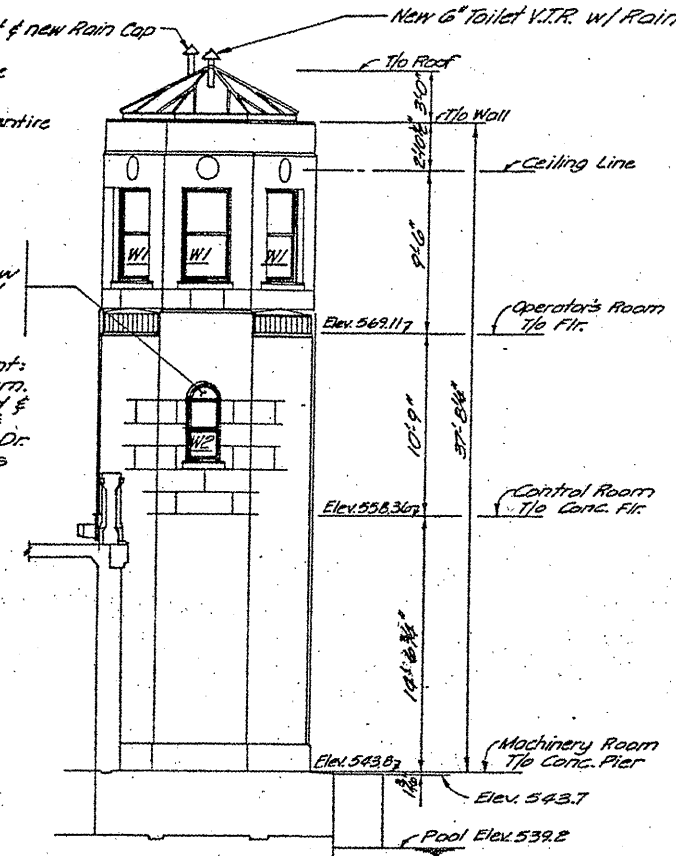
COST INCLUDED IN THE COST OF BRIDGE TENDER HOUSE REHABILITATION.

FOR ADDITIONAL REPAIRS TO THE MACHINERY ROOM SEE SHEET 38A

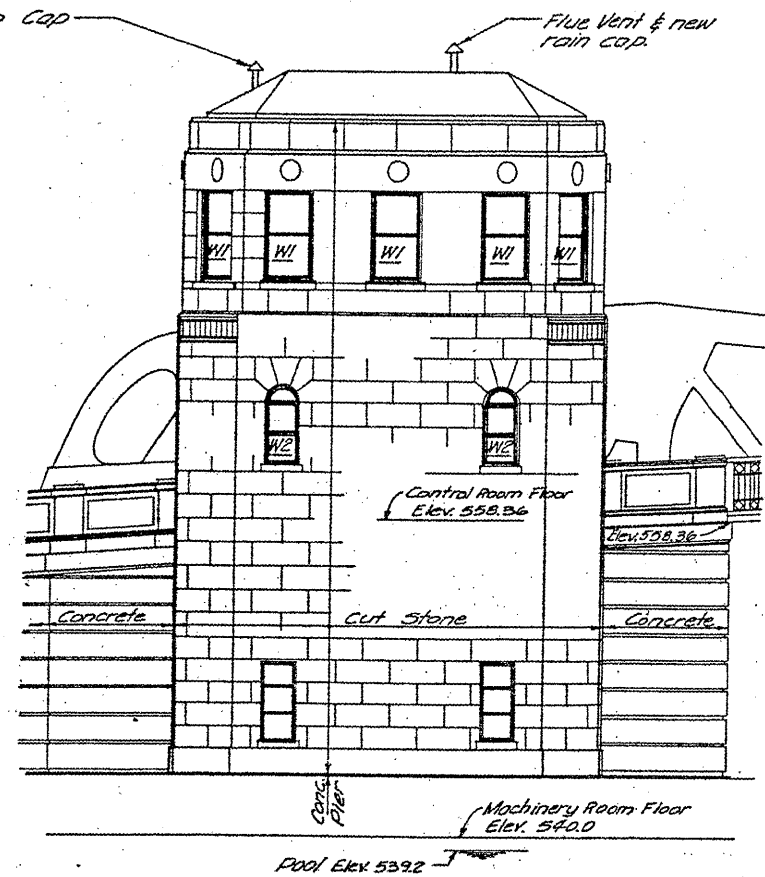
FILE NAME =	USER NAME = mdyje	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RUBY STREET OVER DES PLAINES RIVER BRIDGE HOUSE INTERIOR WALL PAINTING</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
of:\pwwork\pwwork\madyje\00148931\011158	sht-plan.dgn	DRAWN -	REVISED -			112	M-BDR-1	WILL	66	45	
PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 62714		ILLINOIS FED. AID PROJECT			
PLOT DATE = 5/25/2011	DATE -	REVISED -	REVISED -			SCALE:	SHEET NO. 4 OF 5 SHEETS	STA.	TO STA.		



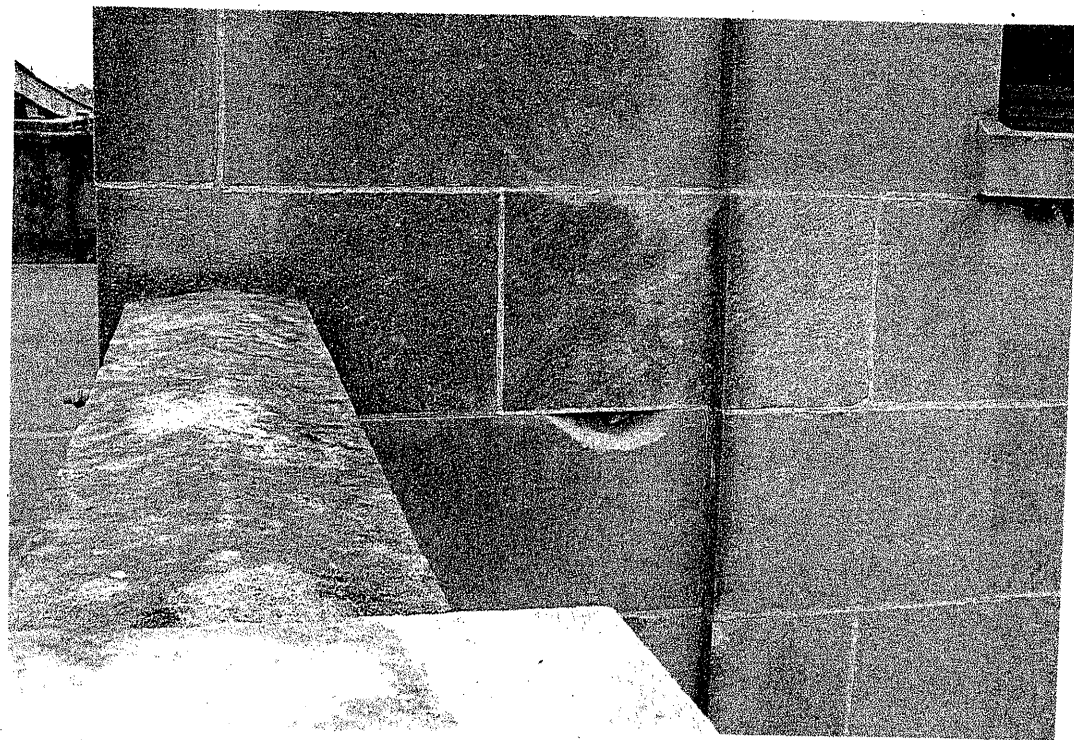
**SOUTH ELEVATION**



**EAST ELEVATION**  
(West Elevation Similar)



**NORTH ELEVATION - EAST PIER**



**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
BRIDGE TENDER HOUSE REHABILITATION	L SUM	1

**NOTE:**

TUCK POINT ALL MORTAR JOINTS ON ALL FACES OF THE BUILDING. ALSO INCLUDE REPAIR OF SPALLED PORTIONS OF THE STONE AS SHOWN ON PICTURES.

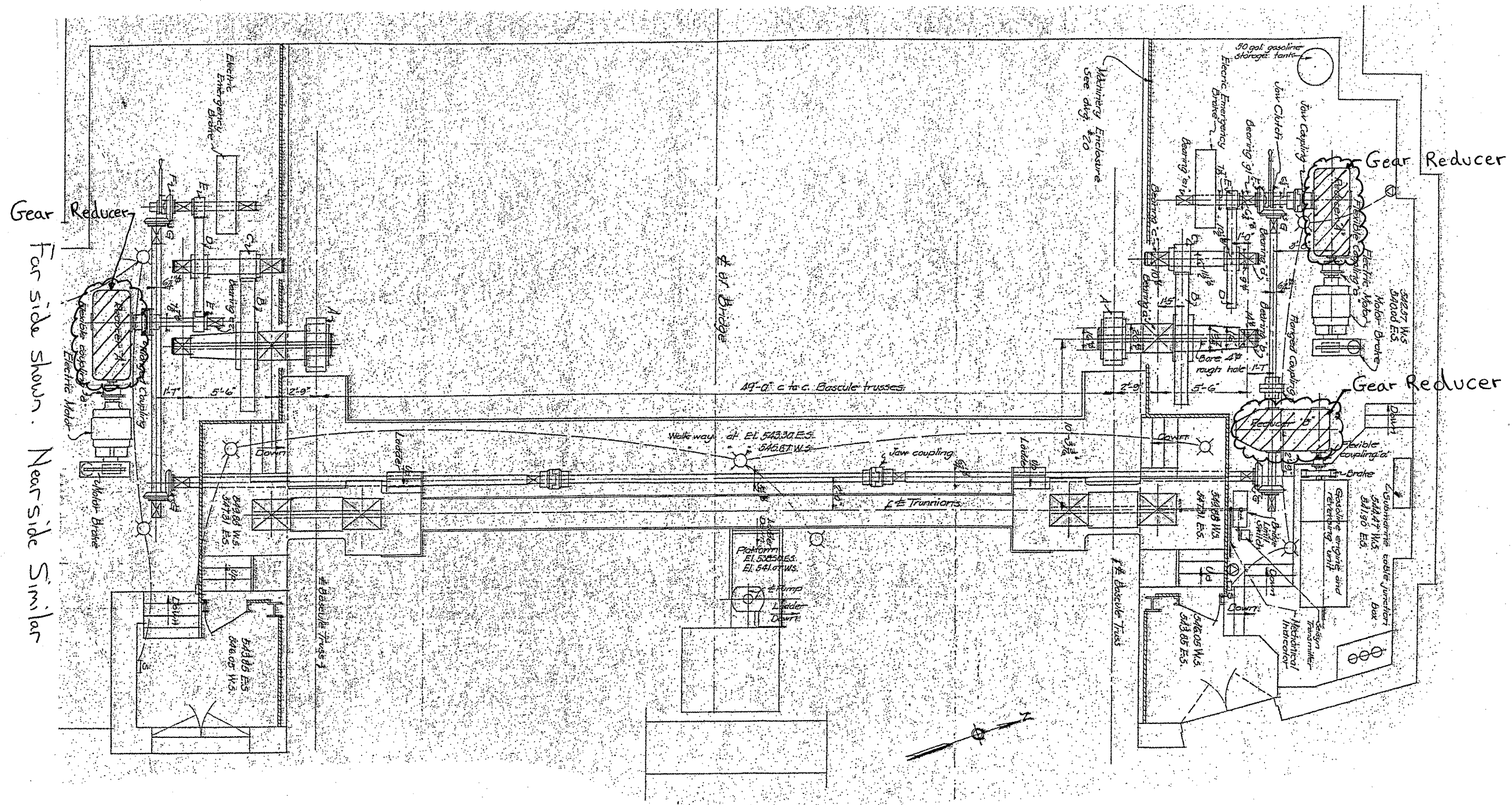
COST OF TUCK POINTING INCLUDED IN THE COST OF BRIDGE TENDER HOUSE REHABILITATION.

FILE NAME =	USER NAME = mdjja	DESIGNED - <b>RTD</b>	REVISED -
es:\pwwork\pwwork\mdjja\08148931\0111584	sht-plan.dgn	DRAWN -	REVISED -
	PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -
	PLOT DATE = 5/25/2011	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**RUBY STREET OVER DES PLAINES RIVER**  
**TUCK POINTING OF EXTERIOR BRIDGE HOUSE**

F.A.P. RTE. 112	SECTION M-BOR-1	COUNTY WILL	TOTAL SHEETS 66	SHEET NO. 46
SCALE: SHEET NO. 5 OF 5 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT CONTRACT NO. 62714	



Gear Reducer  
Far side shown. Near side similar

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
GEAR REDUCER SERVICE	L SUM	1

SEE SPECIAL PROVISION "GEAR REDUCER SERVICE"

FILE NAME =	USER NAME = midyjo	DESIGNED - RTB	REVISED -
c:\pwork\midot\midyjo\08148931\011159	sht-plendgn	DRAWN -	REVISED -
	PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -
	PLOT DATE = 5/25/2011	DATE -	REVISED -

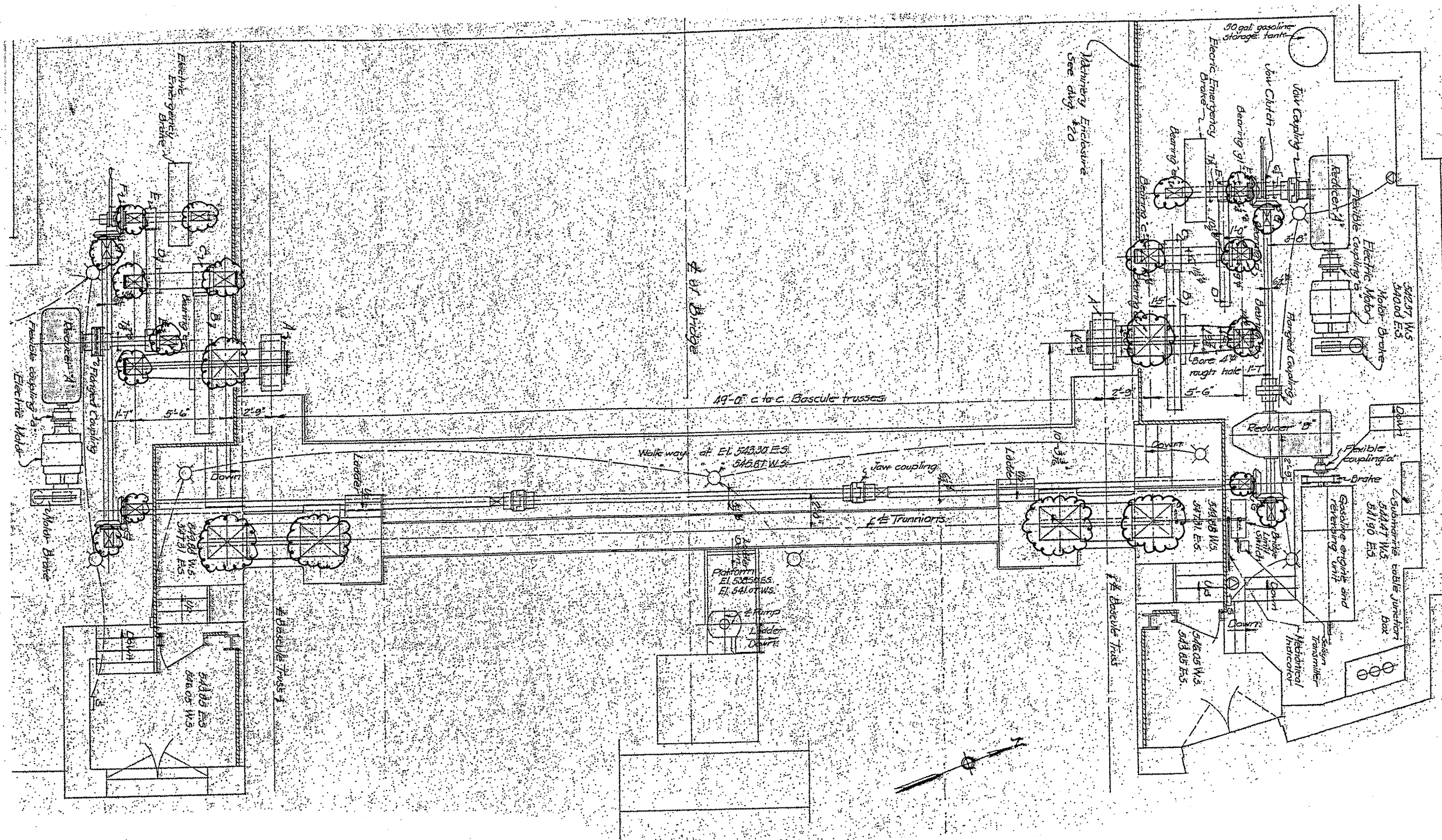
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>RUBY STREET OVER DES PLAINES RIVER GEAR REDUCER SERVICE</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	M-BDR-1	WILL	66	47
CONTRACT NO. 62714				
ILLINOIS FED. AID PROJECT				



Far side shown. Near side similar



BILL OF MATERIALS

ITEM	UNIT	QUANTITY
MACHINERY BED BEARING GREASE GROOVE CLEANING	L SUM	1
TRUNION BEARING GREASE GROOVE CLEANING	L SUM	1

SEE SPECIAL PROVISION "MACHINERY BED BEARING GREASE GROOVE CLEANING" AND "TRUNION BEARING GREASE GROOVE CLEANING"

FILE NAME =  
c:\pw\_work\paw\dot\midyje\08148931\0111584

USER NAME = midyje  
sht-plan.dgn  
PLOT SCALE = 1/8" = 1'-0" IN.  
PLOT DATE = 5/25/2011

DESIGNED - **RTO**  
DRAWN -  
CHECKED -  
DATE -

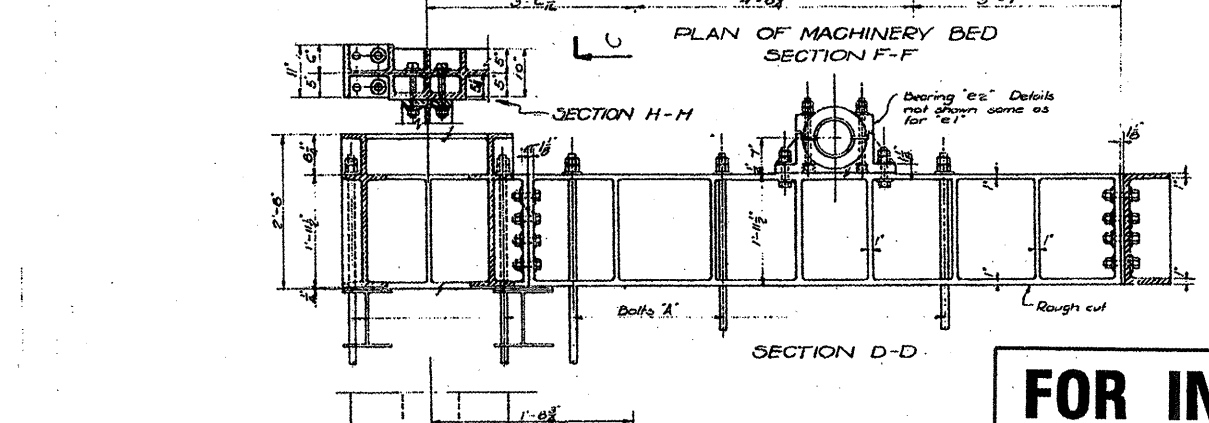
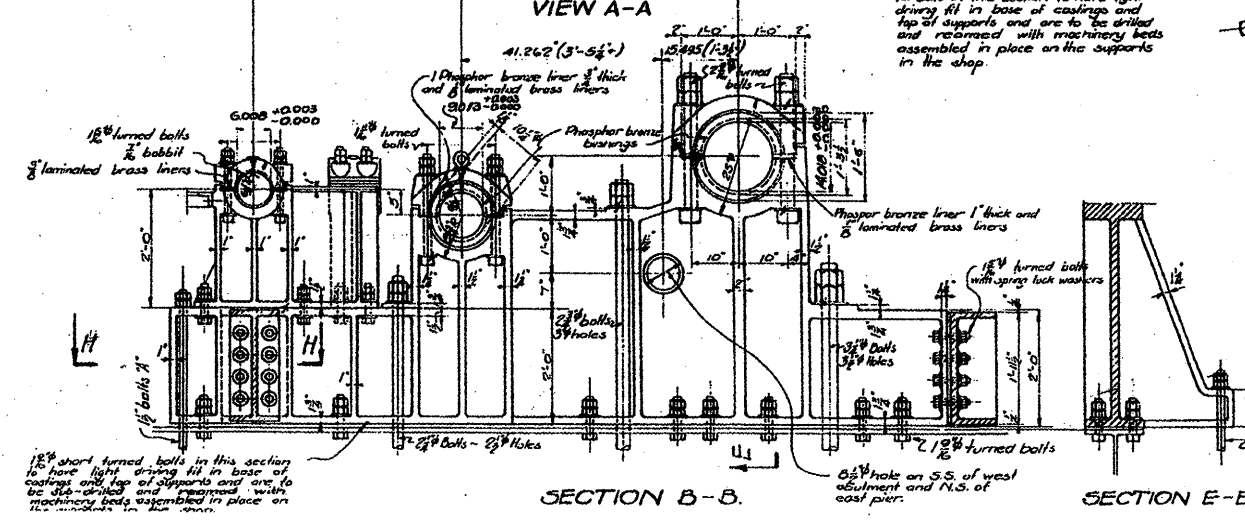
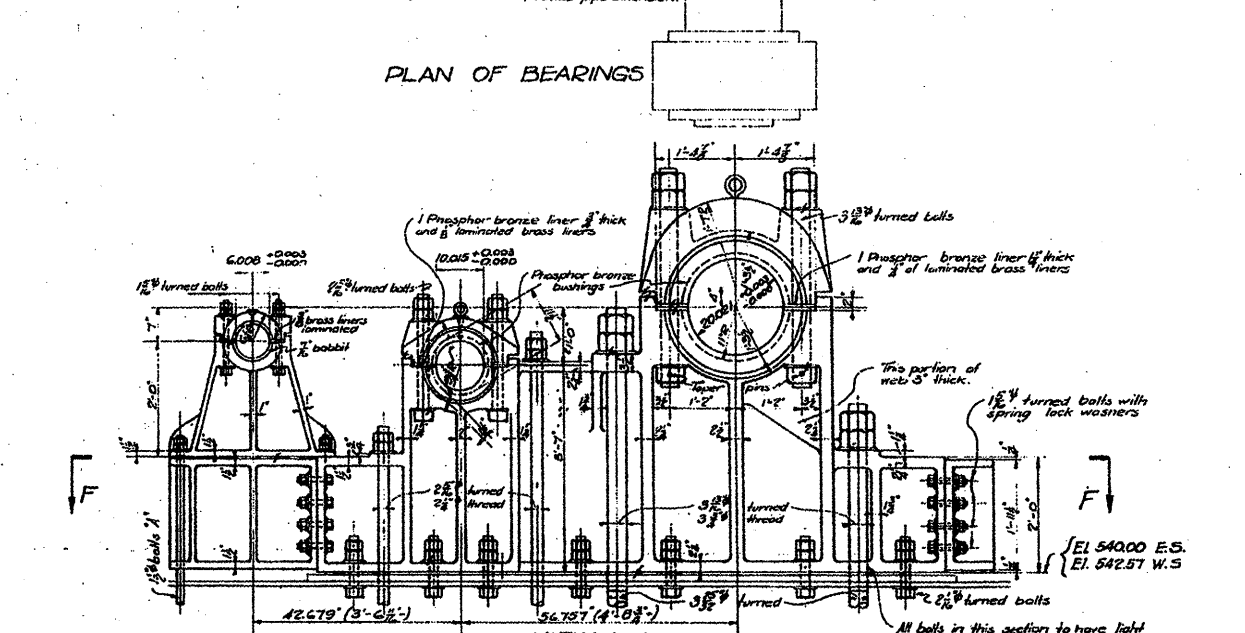
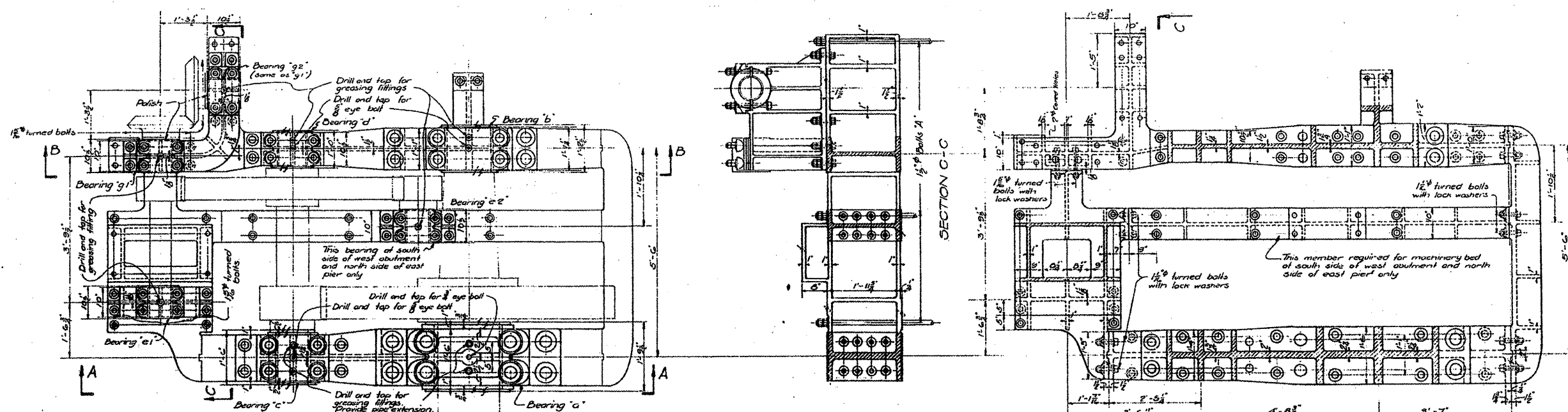
REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER  
GREASE GROOVE CLEANING

SCALE: SHEET NO. 1 OF 10 SHEETS STA. TO STA.

F.A.P. RTE. 112	SECTION M-BDR-1	COUNTY WILL	TOTAL SHEETS 66	SHEET NO. 48
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62714	



**FOR INFORMATION ONLY**

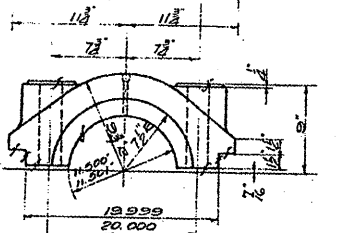
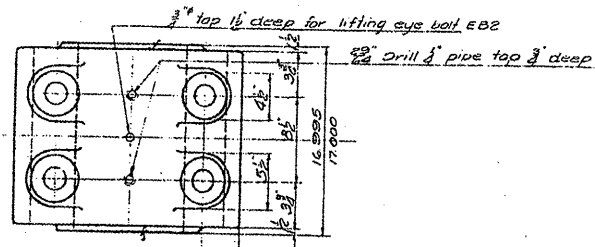
**GENERAL NOTES:**  
 Balls marked 'A' are to be 1 1/2"-C long with 2 hex nuts each at top and 2 hex nuts each at bottom. Drill 1/8" holes for bolts 'A'.  
 Bolts attaching bearing caps to bases shall have a push fit in the caps and a light driving fit in the bases.  
 Bolts not covered by above notes shall have light driving fit unless noted otherwise.

**MACHINERY DETAILS**  
 DOUBLE LEAF TRUNNION BASCULE BRIDGE  
 OVER  
 THE ILLINOIS WATERWAY  
 AT  
 RUBY ST. JOLIET, ILL.

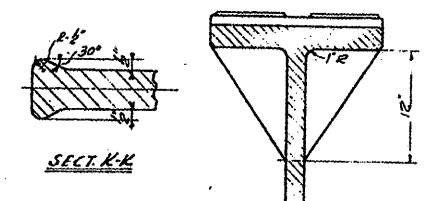
DESIGNED BY  
 THE SCHERZER ROLLING LIFT BRIDGE CO.  
 MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY ALKS  
 TRACED BY A.D.  
 CHECKED BY I.E.  
 REVISOR SEPT. 11, 1933.  
 SCALE 3/4" = 1'-0"  
 DATE FEB. 20, 1930.  
 SHEET NO. 1343-

FILE NAME =	USER NAME = midyje	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RUBY STREET OVER DES PLAINES RIVER SN 099-9901</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
en\pwwork\PHWIDOT\MIDYJA\0148931\011150	sht-plan.dgn	DRAWN -	REVISED -			112	M-BDR-1	WILL	66	43	
PLOT SCALE = 1/8" = 1'-0"	DATE = 7/1/2009	CHECKED -	REVISED -			CONTRACT NO. 62714					
PLOT DATE = 7/1/2009	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT					

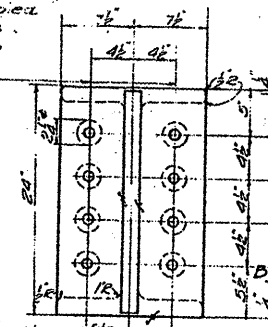


**BEARING CAP**  
 PATT. NO. 2020B-5077  
 CAST STEEL



**SECTION C-C**

Drill and ream assembled for 1 1/2\"/>



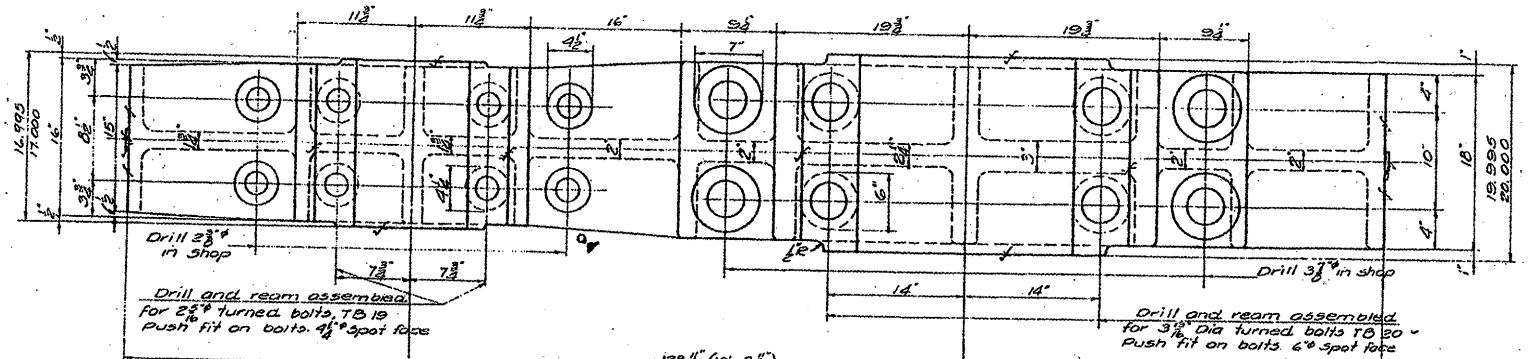
**SECTION A-A**

Drill and ream assembled for 1 1/2\"/>

**NOTES:**

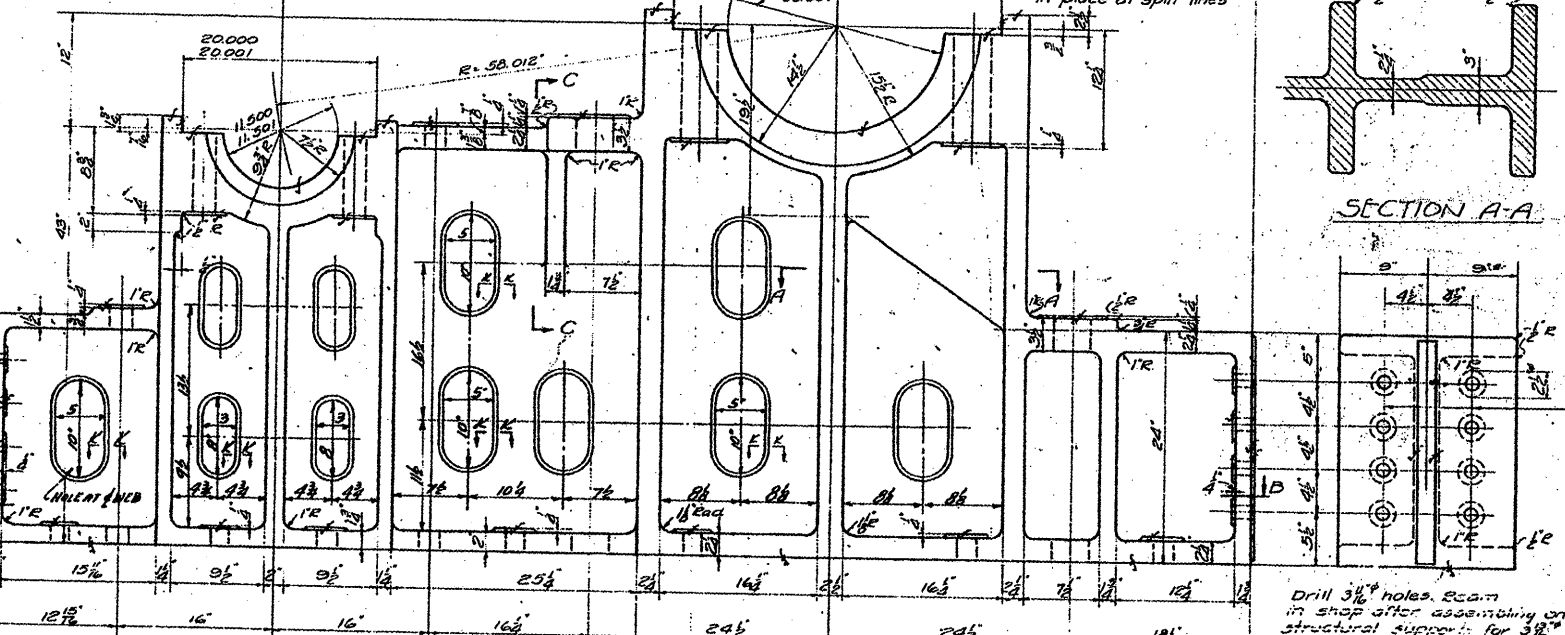
- Specifications for steel for castings
- A.S.T.M. A27-24 Std. 1930 Class B
- Med. Grade Annealed.
- Cover finished surfaces with white lead and tallow.

**FOR INFORMATION ONLY**



**NOTE:** Bore and face with cap and shims in place at split lines

**NOTE:** Bore and face with cap and shims in place at split lines



**SECTION B-B**  
 COMBINATION BEARING  
 PATT. NO. 2020-5077  
 CAST STEEL

Drill 2 1/2\"/>

Drill 3/8\"/>

Drill 1 1/2\"/>

Drill 1 1/2\"/>

**BEARING CAP**  
 PATT. NO. 2020A-5077

- REQUIRED**
- 4 COMB. BEARING PATT. NO. 2020-5077
  - 4 BEARING CAPS 2020A-5077
  - 4 2020B-5077

FILE NAME =	USER NAME = midyjo
es:\pwwork\pwwork\midyjo\148931\011150	sht-plan.dgn
PLOT SCALE = 1/8" = 1" IN.	PLOT DATE = 7/1/2009

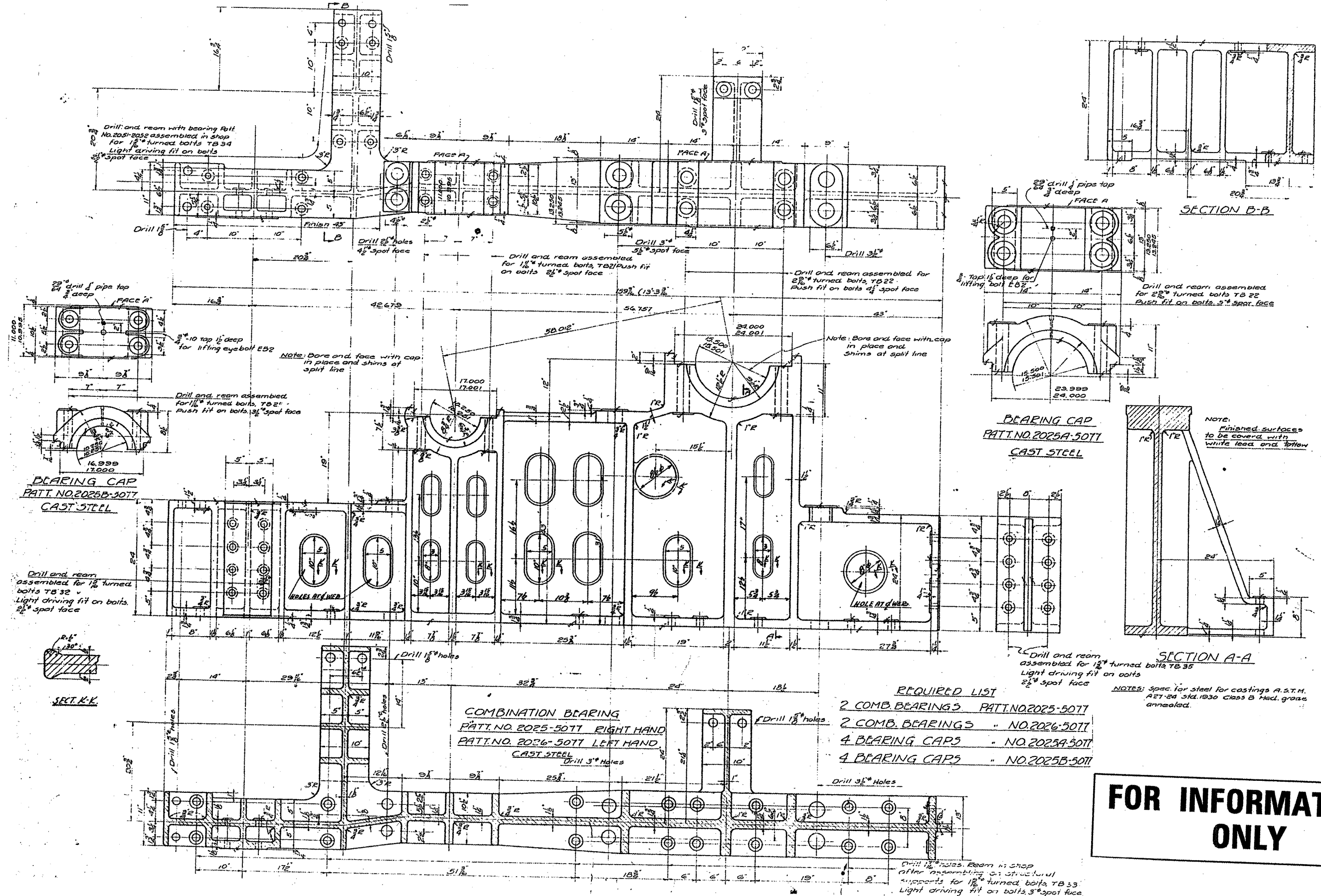
DESIGNED -	REVISIONS
DRAWN -	REVISIONS
CHECKED -	REVISIONS
DATE -	REVISIONS

**STATE OF ILLINOIS**  
 DEPARTMENT OF TRANSPORTATION

**RUBY STREET OVER DES PLAINES RIVER**  
 SN 099-9901

SCALE: SHEET NO. 3 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	M-BDR-1	WILL	66	50
			CONTRACT NO. 62714	
ILLINOIS FED. AID PROJECT				



**FOR INFORMATION ONLY**

- REQUIRED LIST**
- 2 COMB. BEARINGS PAT. NO. 2025-5077
  - 2 COMB. BEARINGS " NO. 2026-5077
  - 4 BEARING CAPS " NO. 2025A-5077
  - 4 BEARING CAPS " NO. 2025B-5077

NOTES: Spec. for steel for castings A.S.T.M. A27-24 Std. 1930 class B Mech. grade annealed.

FILE NAME:   
 USER NAME: mdjjo   
 -sht-plan.dgn   
 PLOT SCALE: 1/8" = 1'-0"   
 PLOT DATE: 7/1/2009

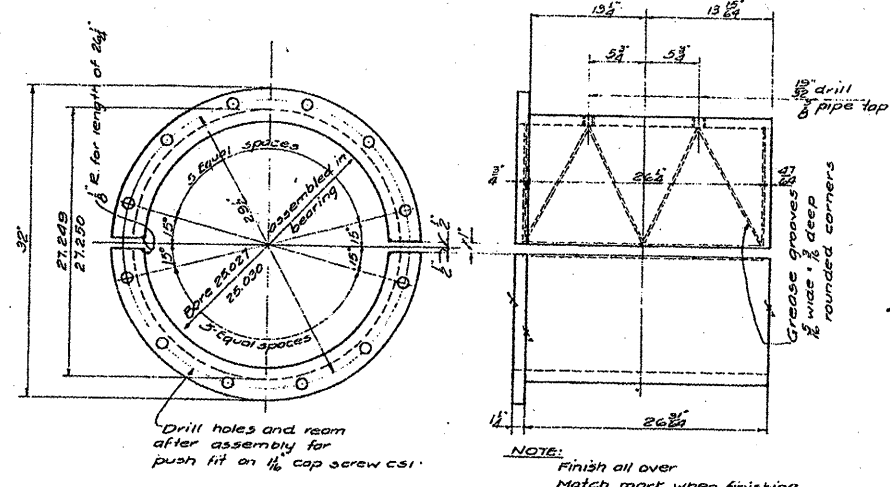
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

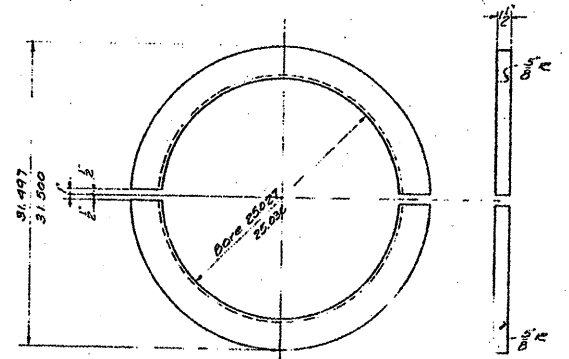
**RUBY STREET OVER DES PLAINES RIVER**  
**SN 099-9901**

SCALE: SHEET NO. 4 OF 10 SHEETS STA. TO STA.

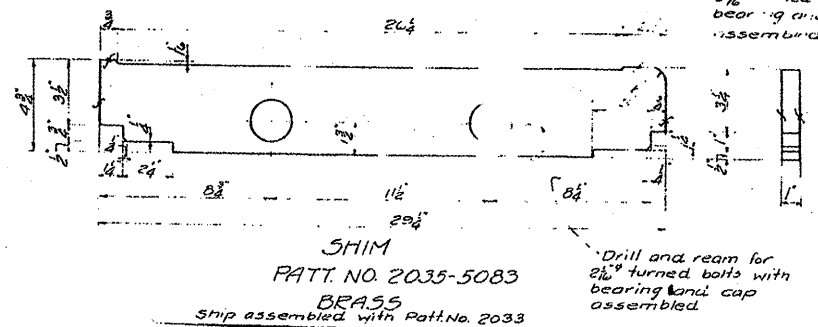
F.A.P. RTE. 112	SECTION M-BDR-1	COUNTY WILL	TOTAL SHEETS 66	SHEET NO. 51
			CONTRACT NO. 62714	
ILLINOIS FED. AID PROJECT				



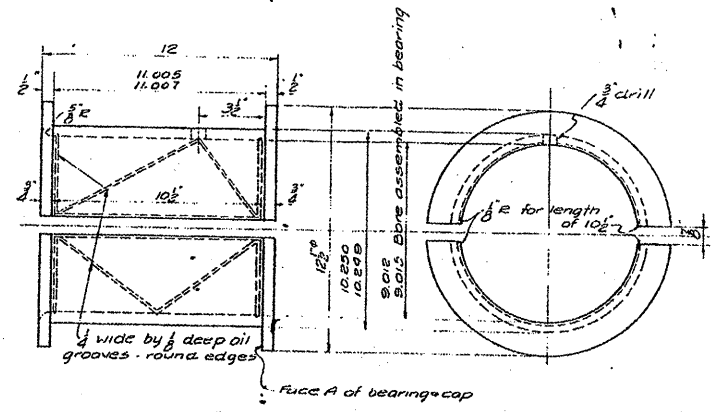
**BUSHING**  
**PATT. NO. 2033-5083**  
 MATERIAL: AM. MANGANESE BRONZE CO'S  
 HY-TEN-3L #1 OR EQUAL  
 Ship assembled with patt. No. 2030, 2030A, 2035



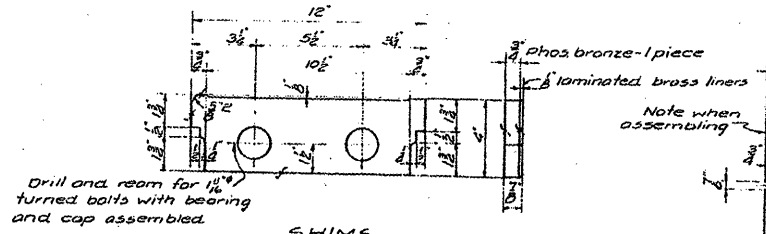
**THR. 12" R.V.**  
**PATT. NO. 2034-5083**  
 PHOS. BRONZE



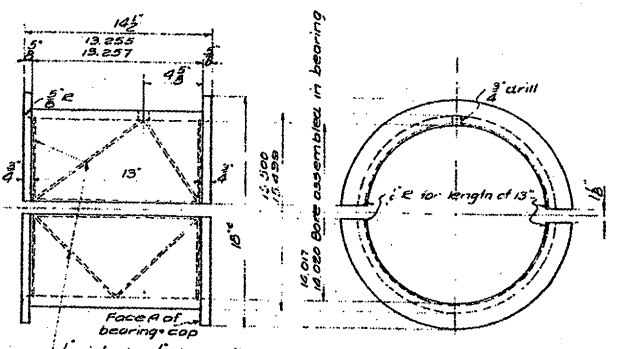
**SHIM**  
**PATT. NO. 2035-5083**  
 BRASS  
 Ship assembled with Patt. No. 2033



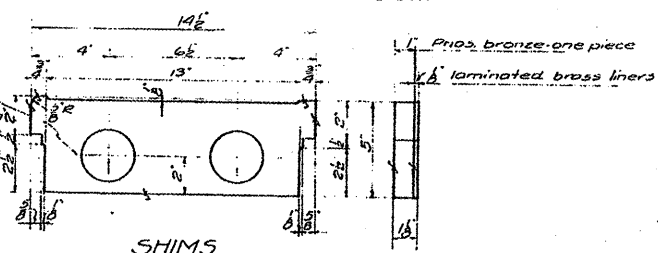
**BUSHING** Ship assembled with patt. no. 2025, 2025B, 2026  
**PATT. NO. 2055-5083**  
 PHOS. BRONZE



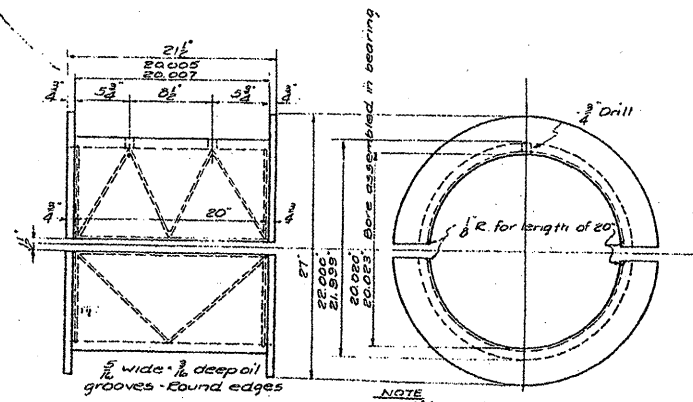
**SHIMS**  
**PATT. NO. 2028-5083**  
 Ship assembled with Patt. No. 2055



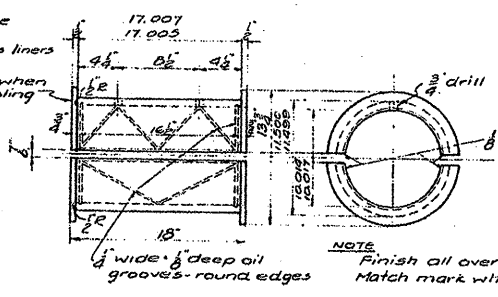
**BUSHING**  
**PATT. NO. 2027-5083**  
 PHOS. BRONZE  
 Ship assembled with Patt. No. 2025, 2026, 2026A



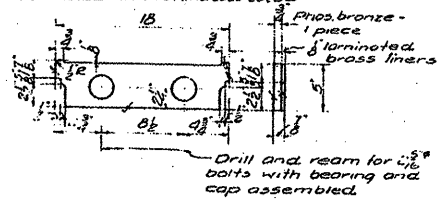
**SHIMS**  
**PATT. NO. 2029-5083**  
 Ship assembled with patt. No. 2027



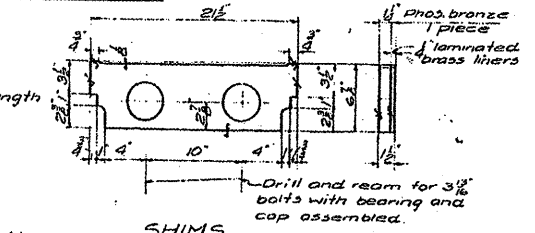
**BUSHING** Ship assembled with Patt. No. 2020, 2020A  
**PATT. NO. 2022-5083**  
 PHOS. BRONZE



**BUSHING**  
**PATT. NO. 2021-5083**  
 PHOS. BRONZE  
 Ship assembled with Patt. No. 2020, 2020B



**SHIMS**  
**PATT. NO. 2023-5083**  
 Ship assembled with Patt. No. 2021



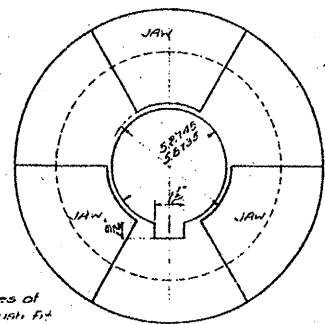
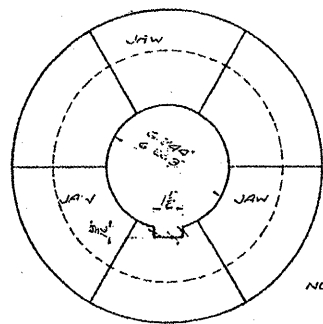
**SHIMS**  
**PATT. NO. 2024-5083**  
 Ship assembled with Patt. No. 2022

**REQUIRED LIST**

8	BUSHINGS (16 HALVES)	PATT. NO. 2033-5083
4	" (8 HALVES)	" " 2055-5083
4	" (8 HALVES)	" " 2022-5083
4	" (8 HALVES)	" " 2021-5083
4	" (8 HALVES)	" " 2023-5083
8	THRUST RINGS (16 HALVES)	" " 2034-5083
8	SHIMS	" " 2029-5083
8	"	" " 2028-5083
8	"	" " 2023-5083
8	"	" " 2024-5083
16	"	" " 2035-5083

NOTE:  
 Bronze to be class B, Serial Designation B22-21 A.S.T.M. Std. 1930 Except as noted for Patt. No. 2033-5083

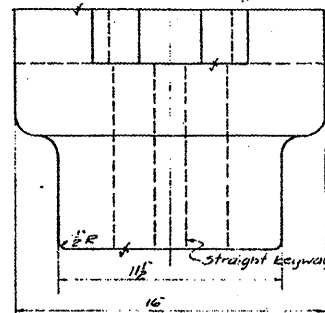
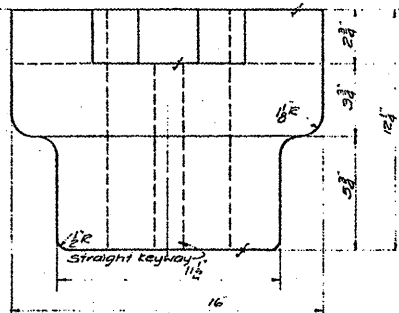
**FOR INFORMATION ONLY**



NOTE: Finish faces of Jaws for push fit.

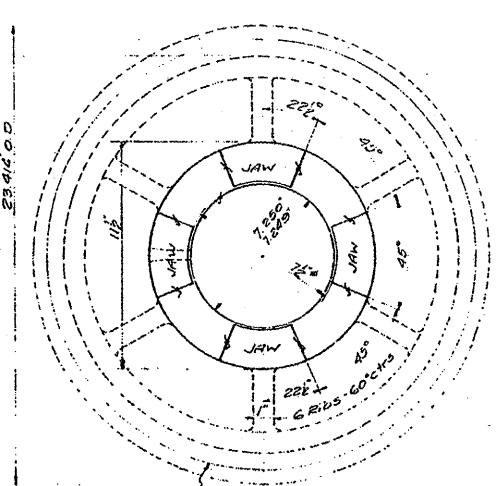
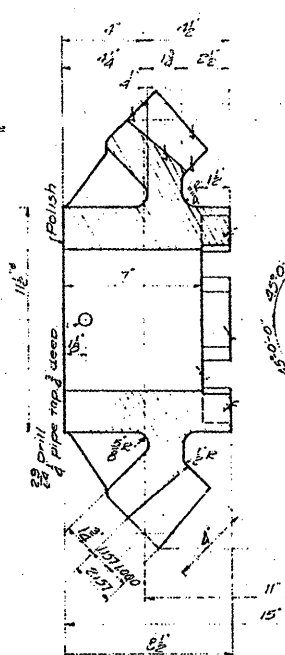
6.250" counter bore  
6.222"

End of shaft 45

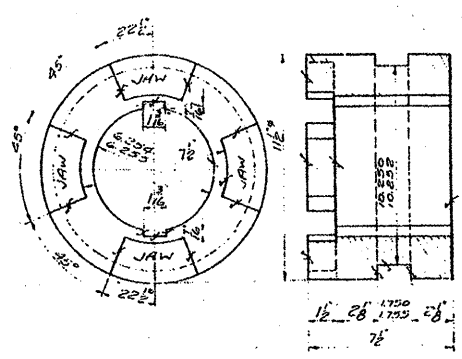


JAW COUPLING  
PATT. NO. 2058-5077  
CAST STEEL

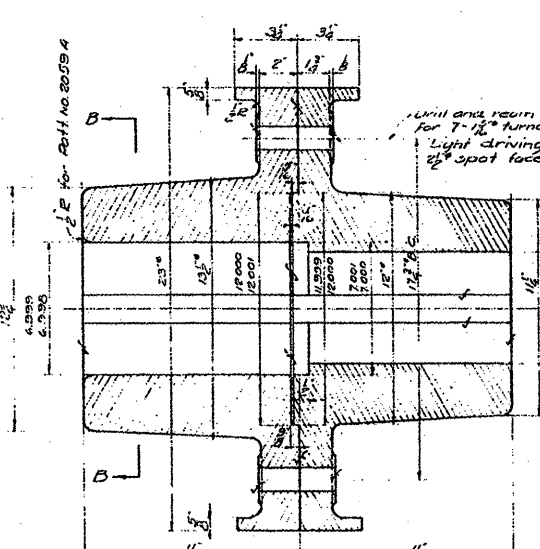
JAW COUPLING  
PATT. NO. 2058A-5077  
CAST STEEL



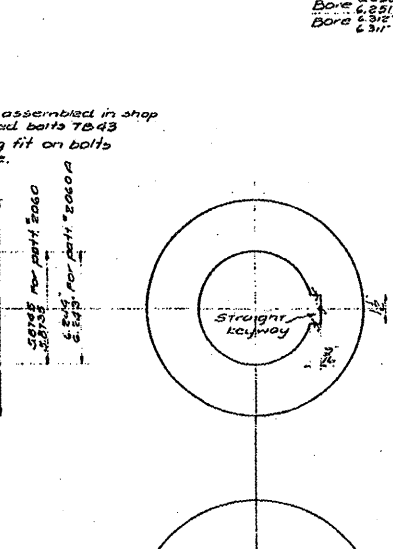
22 TEETH I.D.P. 4 FACE  
22" PITCH DIA.  
14 1/2 STD. INVOLUTE CUT TEETH  
BEVEL GEAR F  
PATT. NO. 2061-5077  
CAST STEEL



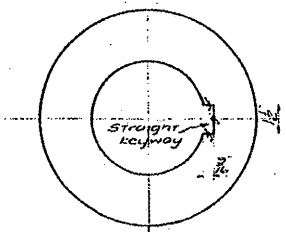
CLUTCH  
PATT. NO. 2062-5077  
CAST STEEL  
NOTE: Jaws of Patt. No. 2061-2062 to have push fit.



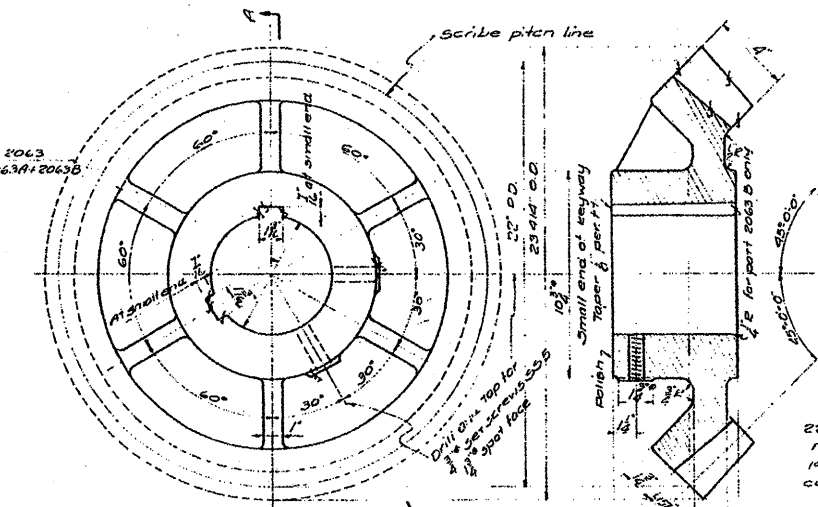
FLANGED COUPLING  
PATT. NO. 2059-5077  
CAST STEEL



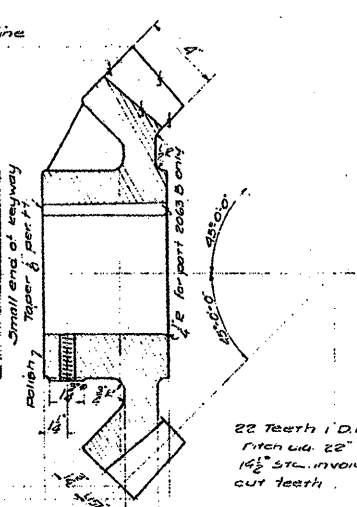
FLANGED COUPLING  
PATT. NO. 2060-5077  
CAST STEEL



SECTION B-B



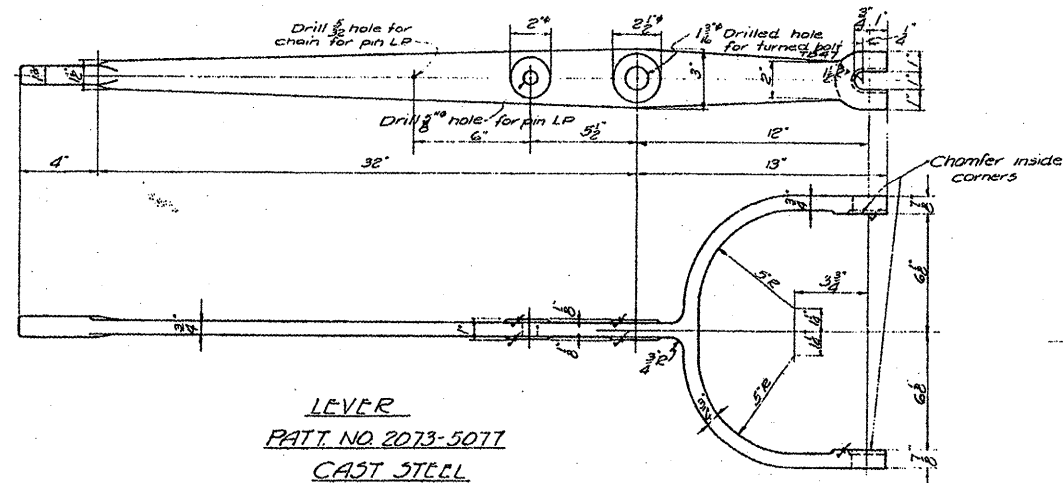
BEVEL GEARS G  
PATT. NO. 2063-5077  
PATT. NO. 2063A-5077  
PATT. NO. 2063B-5077  
CAST STEEL



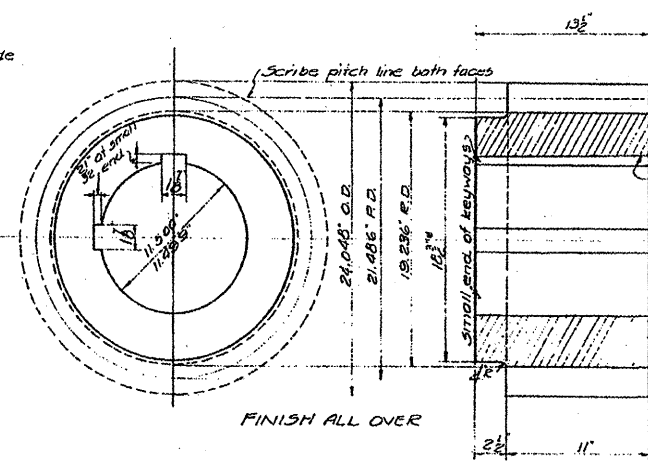
- REQUIRED LIST
- 2 JAW COUPLINGS PATT. NO. 2058-5077
  - 2 " " " 2058A-5077
  - 2 FLANGED COUPLINGS " " 2059-5077
  - 2 " " " 2060-5077
  - 2 " " " 2060A-5077
  - 4 BEVEL GEARS " " 2061-5077
  - 4 CLUTCHES " " 2062-5077
  - 8 BEVEL GEARS " " 2063-5077
  - 2 " " " 2063A-5077
  - 2 " " " 2063B-5077
  - 2 FLANGED COUPLINGS " " 2059A-5077

**FOR INFORMATION ONLY**

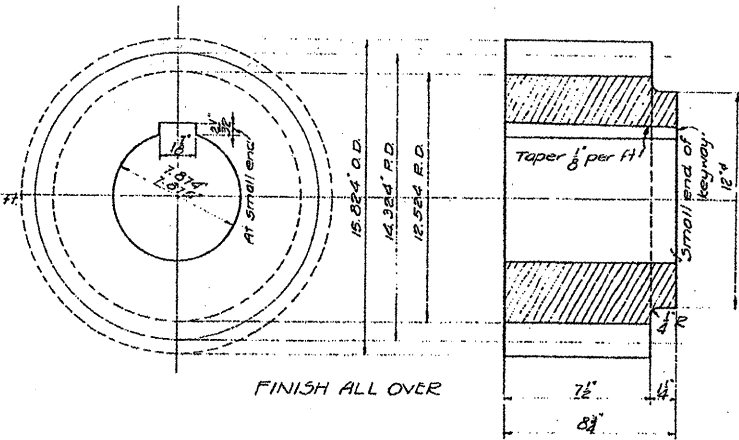
NOTES:  
Spec. for steel castings A.S.T.M  
A27-24 Std. 1930, class B. Mod.  
grade unanneal.



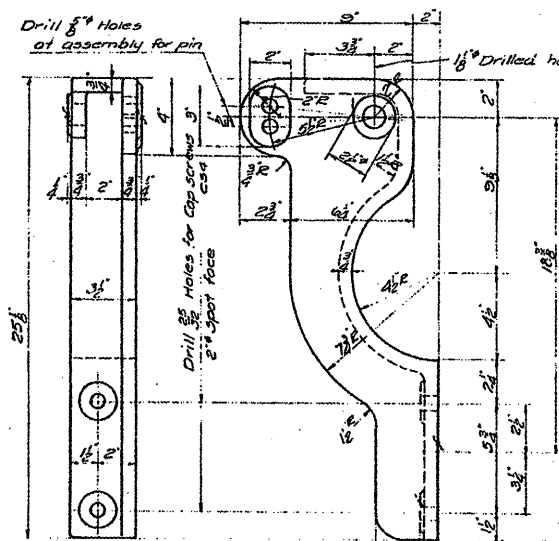
LEVER  
PATT. NO. 2073-5077  
CAST STEEL



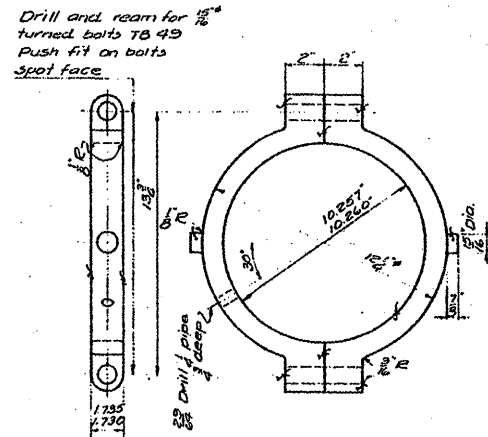
FINISH ALL OVER  
15 Special 20° involute cut teeth  
See sheet #9 for profile  
4 1/2 C.R. 21.486" P.D.  
PINION - MARK C  
FORGED STEEL



FINISH ALL OVER  
15 Std. 20° involute stud teeth  
3" C.R. 19.384" P.D.  
PINION - MARK E  
FORGED STEEL

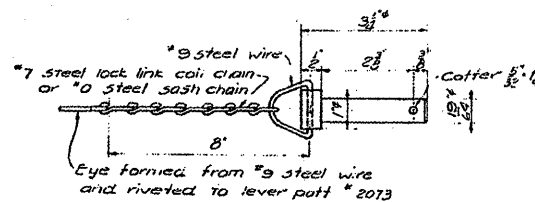


BRACKET  
PATT. NO. 2071-5077 RIGHT HD.  
PATT. NO. 2072-5077 LEFT HD.  
CAST STEEL



SHIFT RING  
PATT. NO. 2064-5083  
PHOS. BRONZE

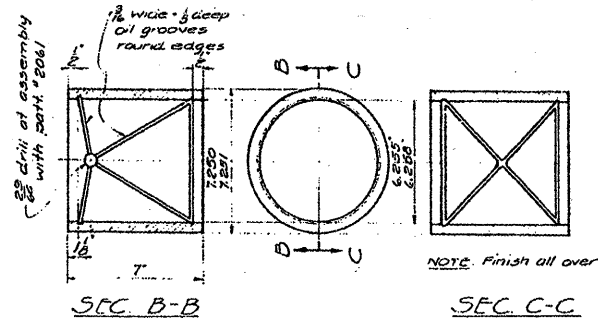
Ship assembled with Part No. 2062-5077



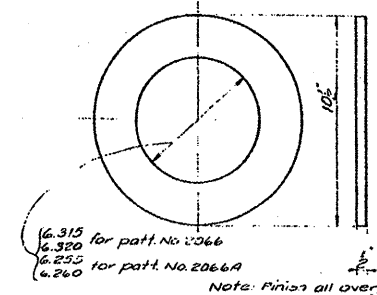
PIN - LP  
MACHINERY STEEL

REQUIRED LIST

- 4- LEVERS PATT. NO. 2073-5077
- 2- BRACKETS RIGHT HD. - 2071-5077
- 2- BRACKETS LEFT HD. - 2072-5077
- 4- BUSHINGS PATT. NO. 2065-5083
- 4- SHIFT RINGS - 2064-5083
- 4- PINIONS C
- 6- PINIONS E
- 4- PINS LP
- 4- THRUST RINGS - 2066-5083
- 12- THRUST RINGS - 2066A-5083



SEC. B-B  
SEC. C-C  
BUSHING  
PATT. NO. 2065-5083  
PHOS. BRONZE  
Ship assembled with part no 2061

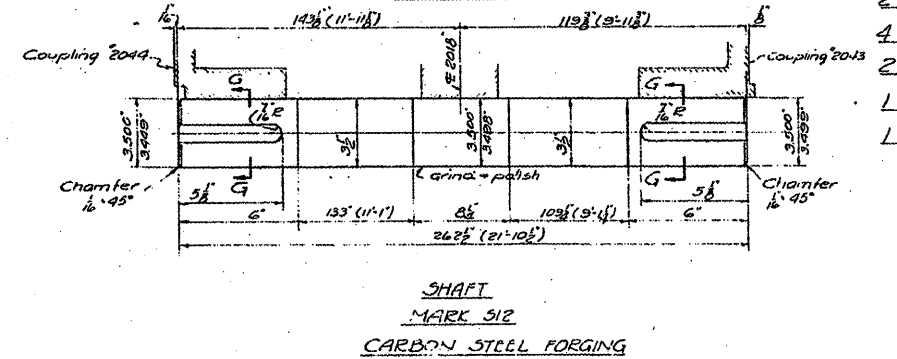
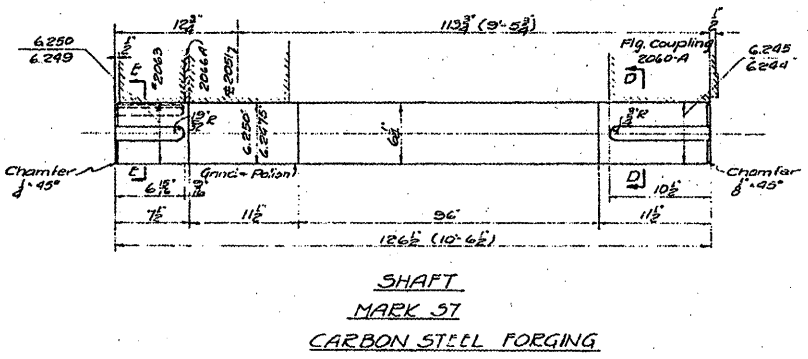
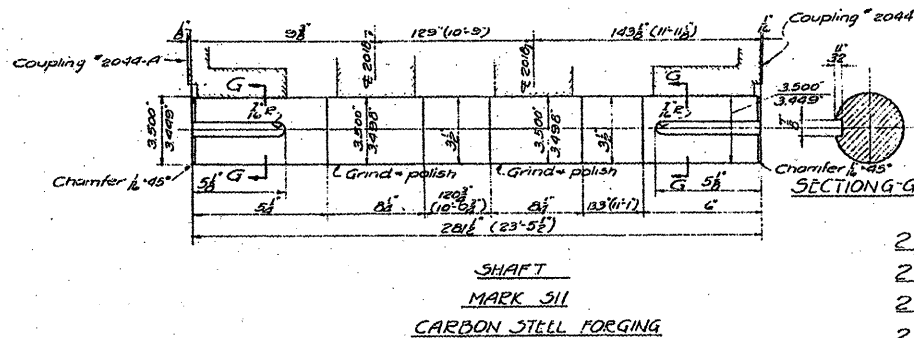
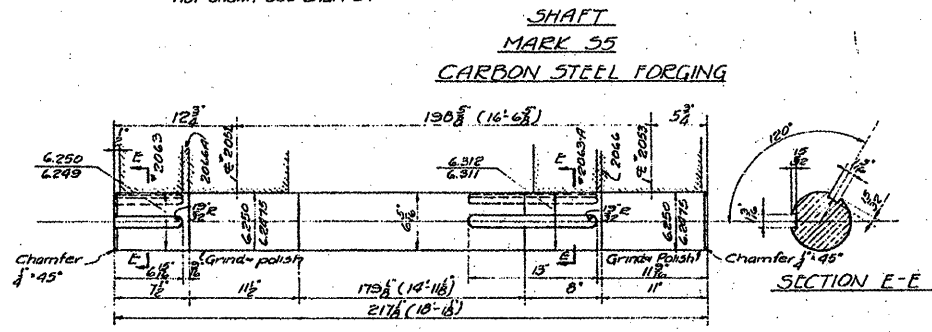
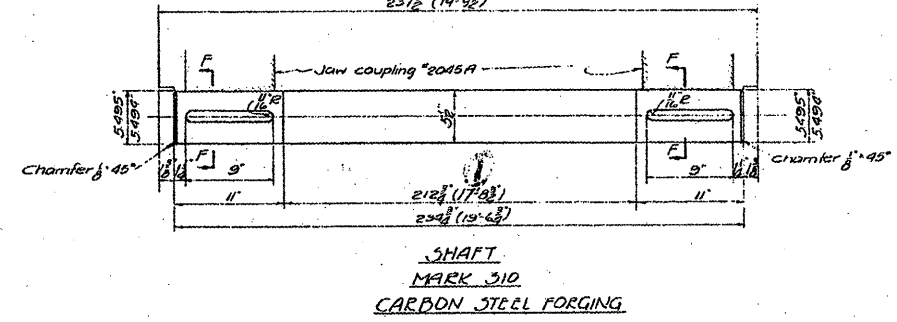
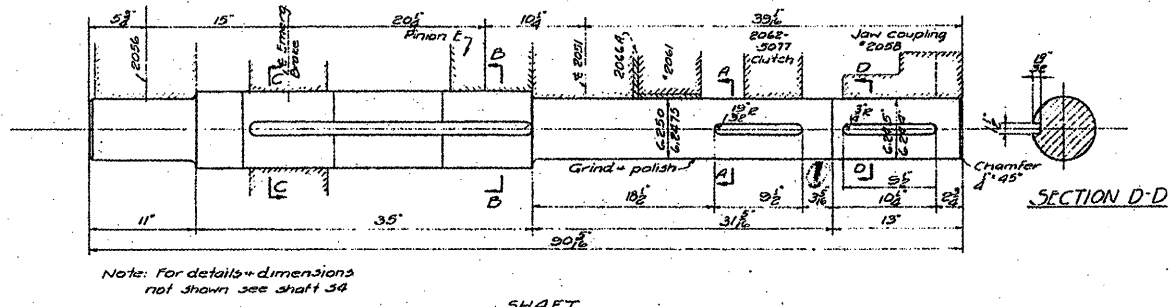
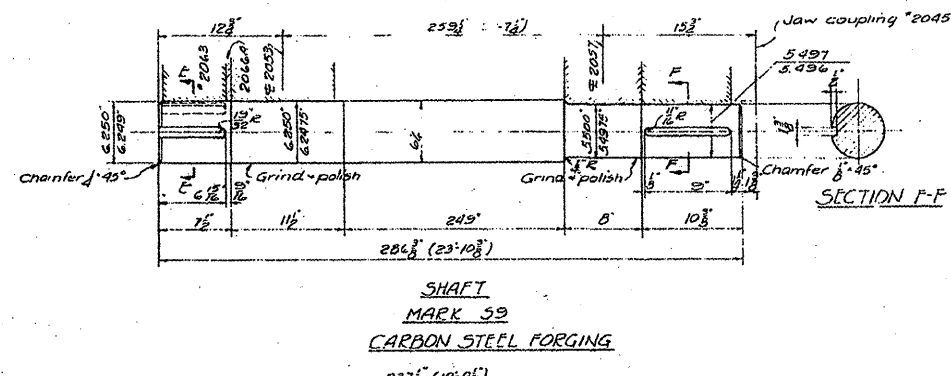
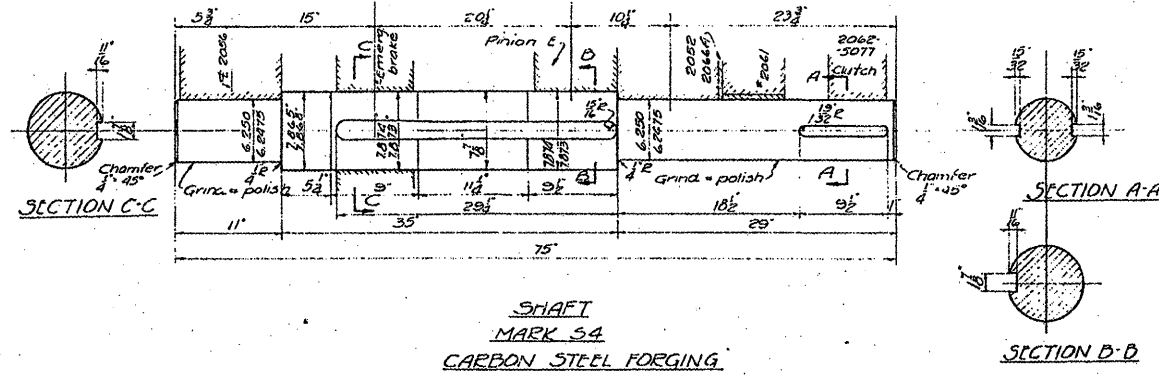


THRUST RINGS  
PATT. NO. 2066-5083  
PATT. NO. 2066A-5083

**FOR INFORMATION ONLY**

NOTES:  
Steel forgings to be ASTM A18-30  
Class C Std. 1930 Annealed.

FILE NAME =	USER NAME = midjje	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUBY STREET OVER DES PLAINES RIVER SN 099-9901	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pw\mark\VP\DOT\MIDYJA\1014893E\DJ1158-shr-plen.dgn		DRAWN -	REVISED -			112	M-BDR-1	WILL	66	54
PLOT SCALE = 1/8" = 1" / IN.		CHECKED -	REVISED -			CONTRACT NO. 62714			ILLINOIS FED. AID PROJECT	
PLOT DATE = 7/1/2009		DATE -	REVISED -			SCALE:	SHEET NO. 7 OF 10 SHEETS	STA.	TO STA.	



REQUIRED

2 SHAFTS	54
2 SHAFTS	55
2 SHAFTS	56
2 SHAFTS	57
4 SHAFTS	59
2 SHAFTS	510
1 SHAFT	511
1 SHAFT	512

**FOR INFORMATION ONLY**

FILE NAME =	USER NAME = midjo	DESIGNED -	REVISED -
ci:\pw_vork\KPMIDDOT\MIDYJAN\0148931\011150	-sht-plan.dgn	DRAWN -	REVISED -
	PLOT SCALE = 103.216" / IN.	CHECKED -	REVISED -
	PLOT DATE = 7/1/2009	DATE -	REVISED -

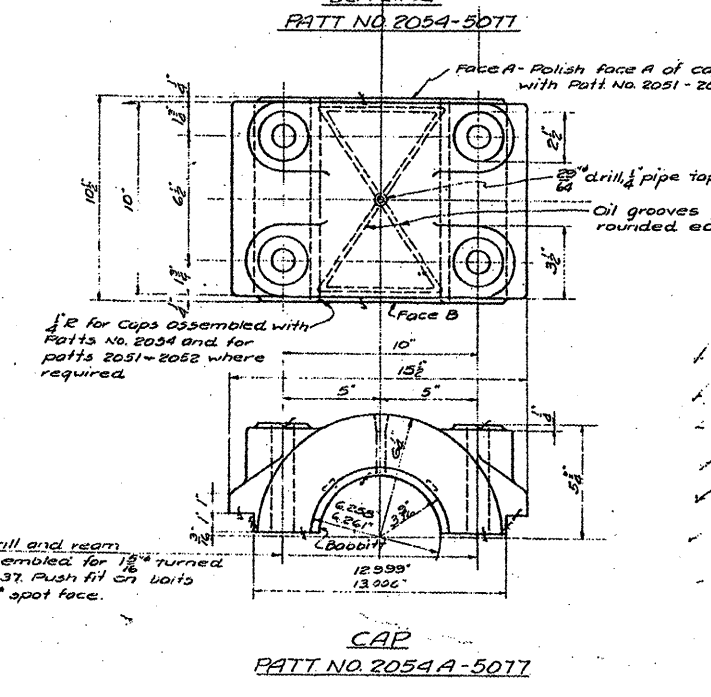
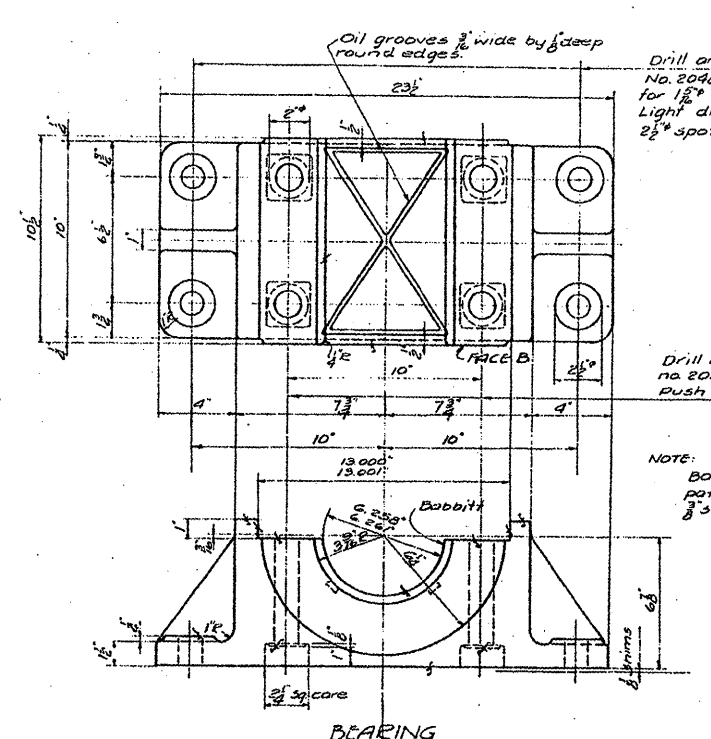
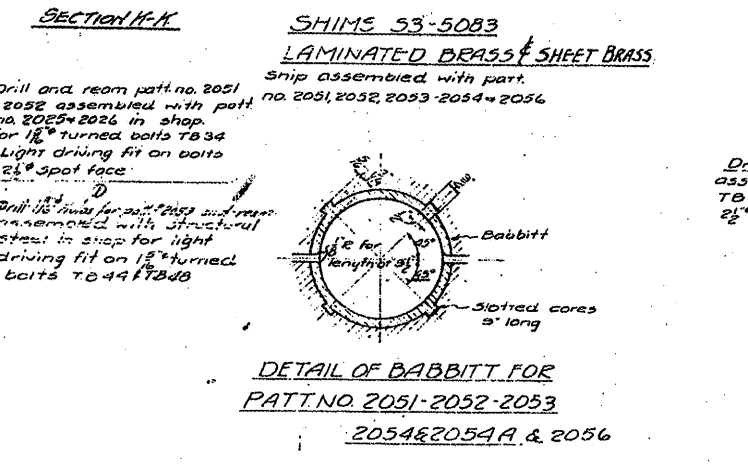
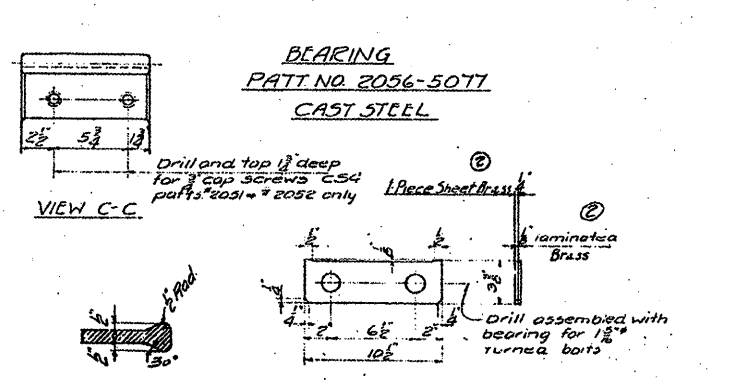
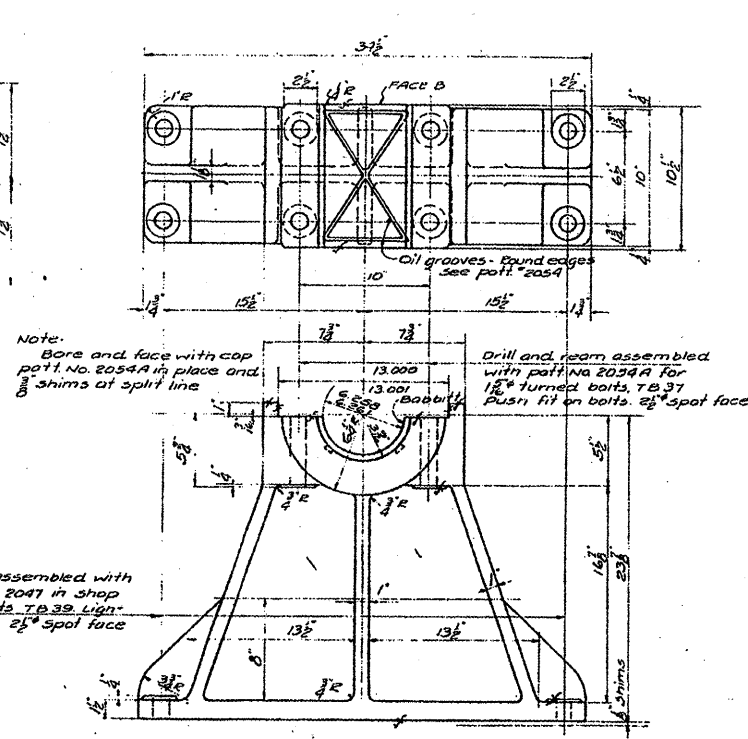
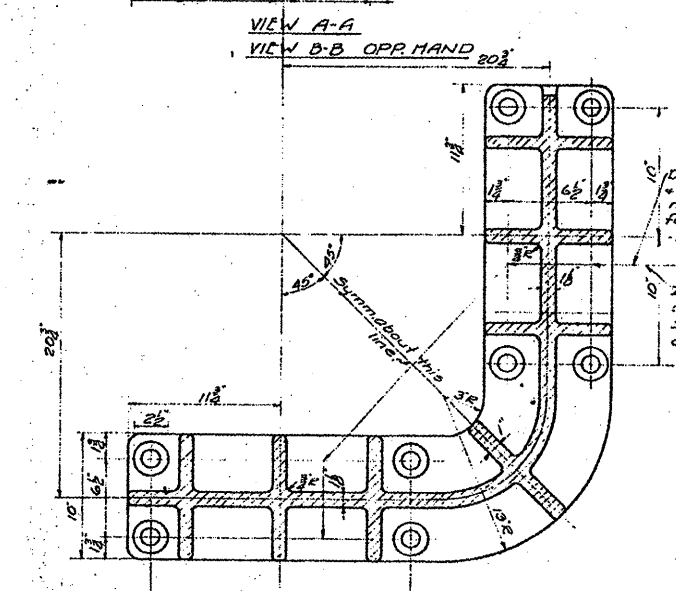
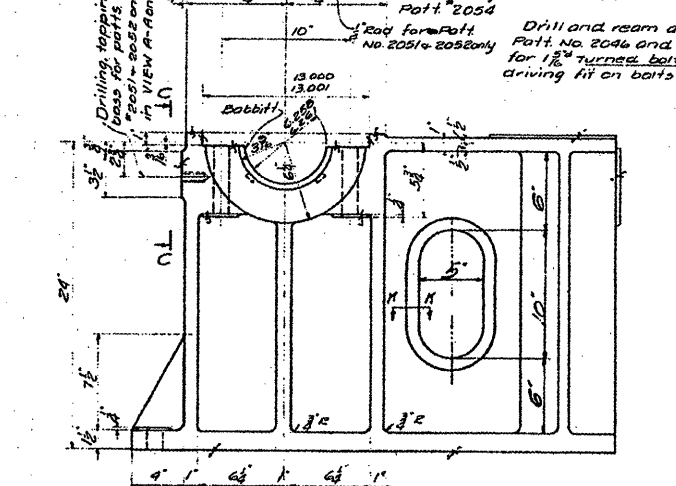
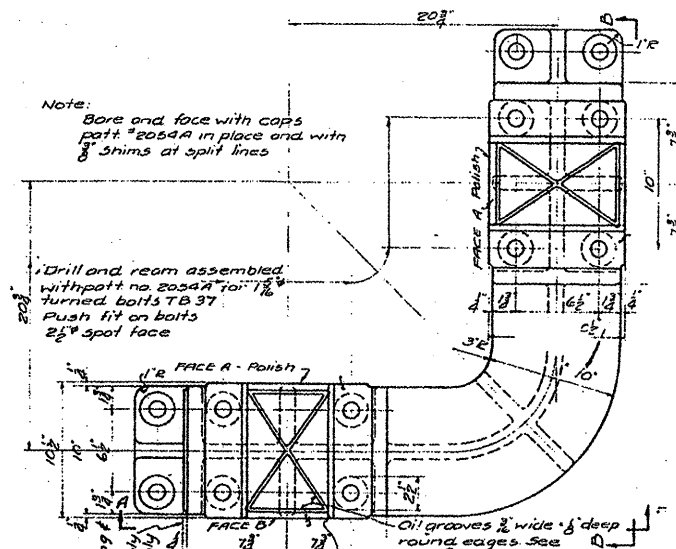
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER  
SN 099-9901

SCALE: SHEET NO. 8 OF 10 SHEETS STA. TO STA.

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	M-BDR-1	WILL	66	55
				CONTRACT NO. 62714
ILLINOIS FED. AID PROJECT				



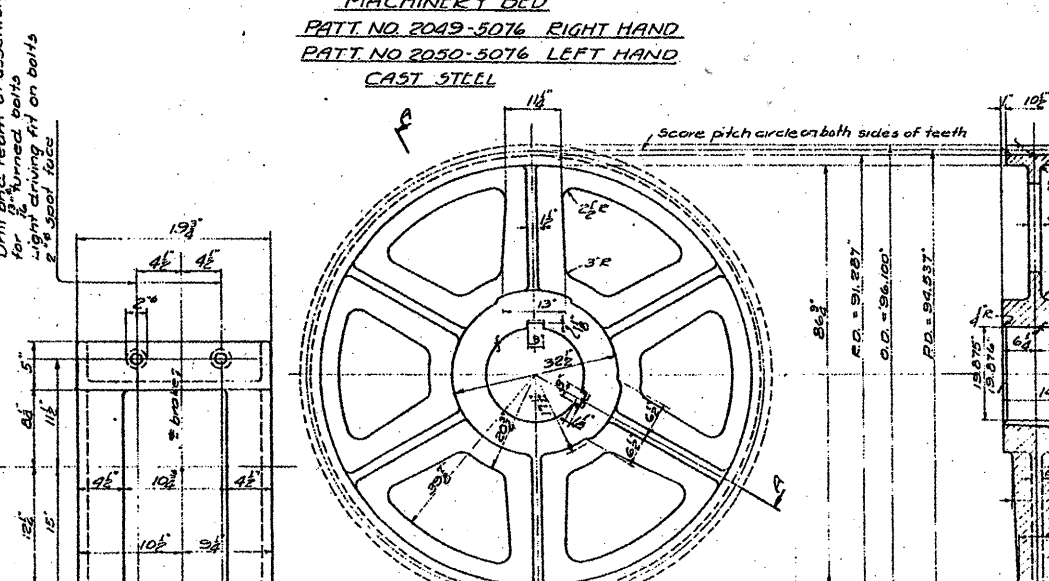
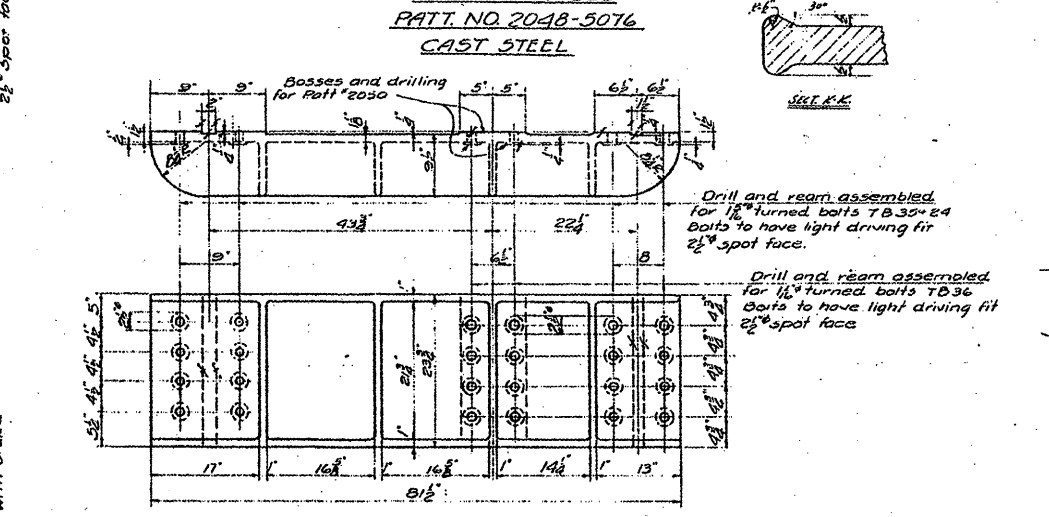
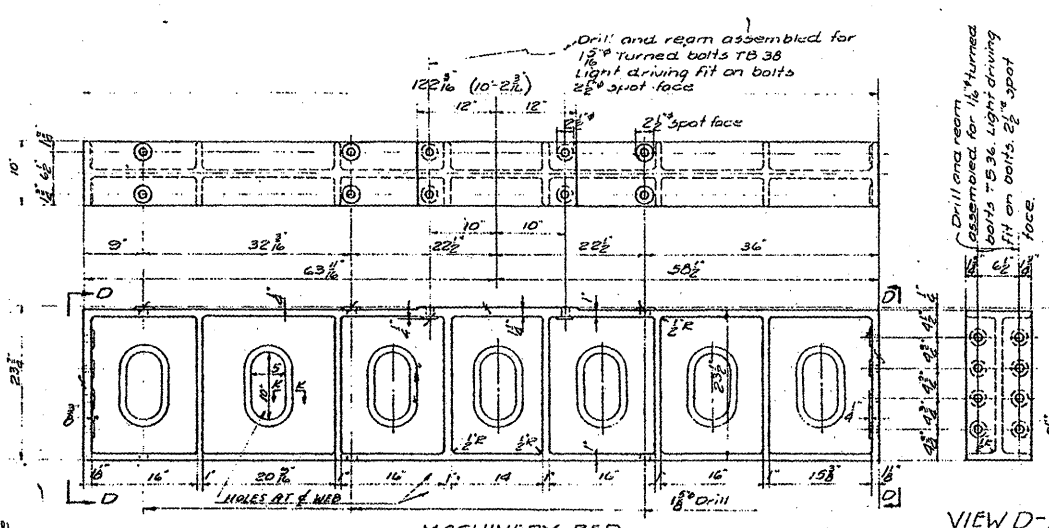
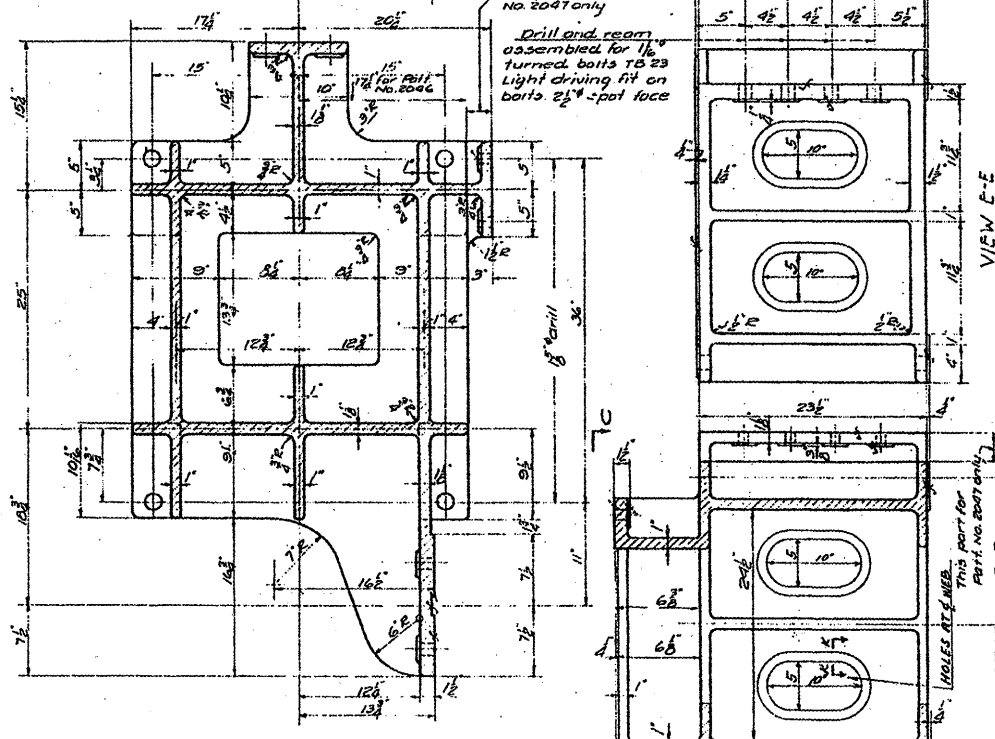
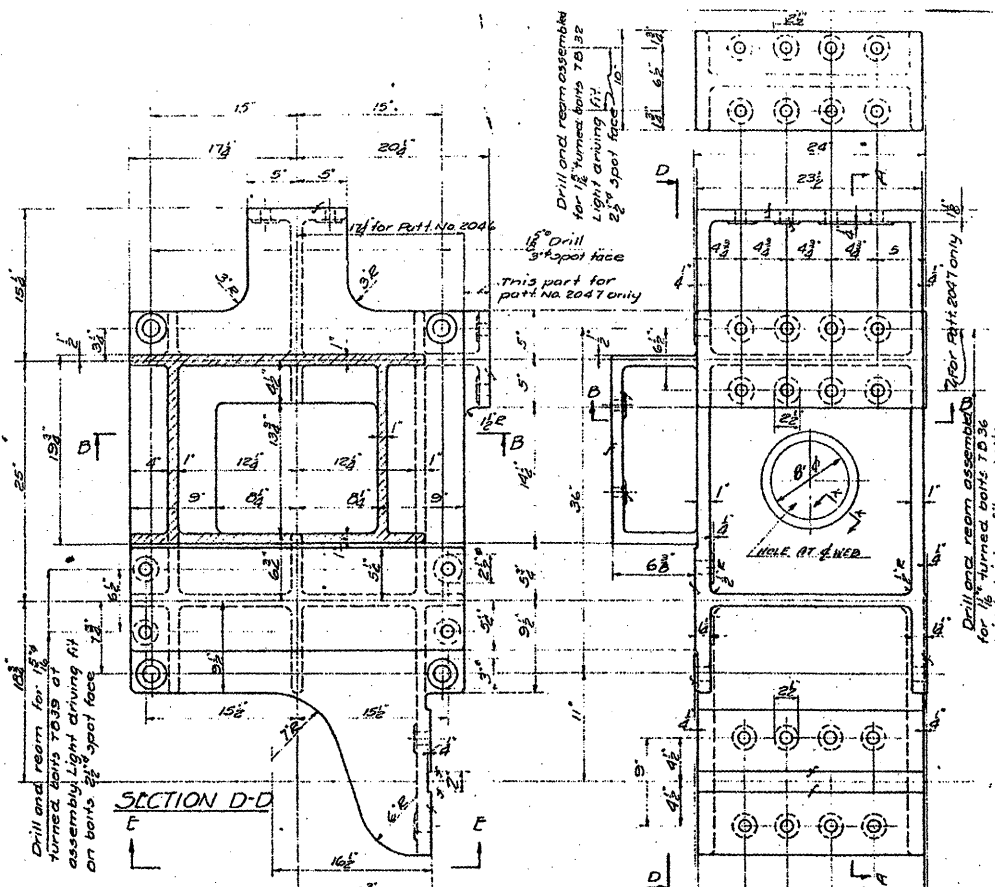


REQUIRED LIST

2	UNION BEARINGS	PATT. NO. 2051-5077
2	"	" NO. 2052-5077
4	"	" NO. 2053-5077
2	BEARINGS	" NO. 2054-5077
22	BEARING CAPS	" NO. 2054A-5077
4	BEARING	" NO. 2056-5077
44	SHIMS	53-5083

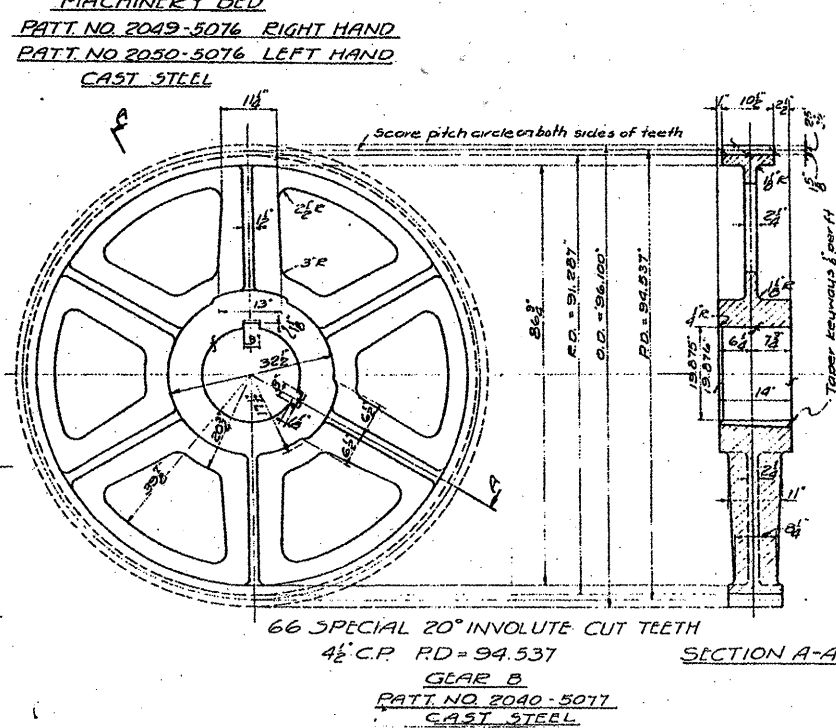
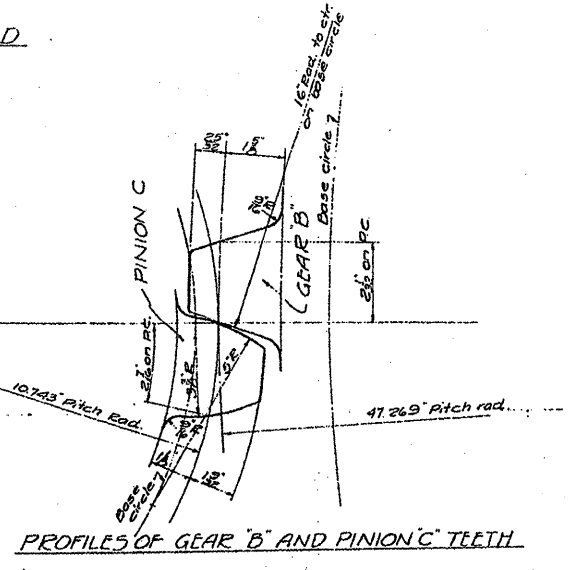
**FOR INFORMATION ONLY**

NOTES:  
Spec. for steel for castings A.S.T.M. A27-24 Std. 1930 Class B. Med. grade annealed.



**REQUIRED LIST**

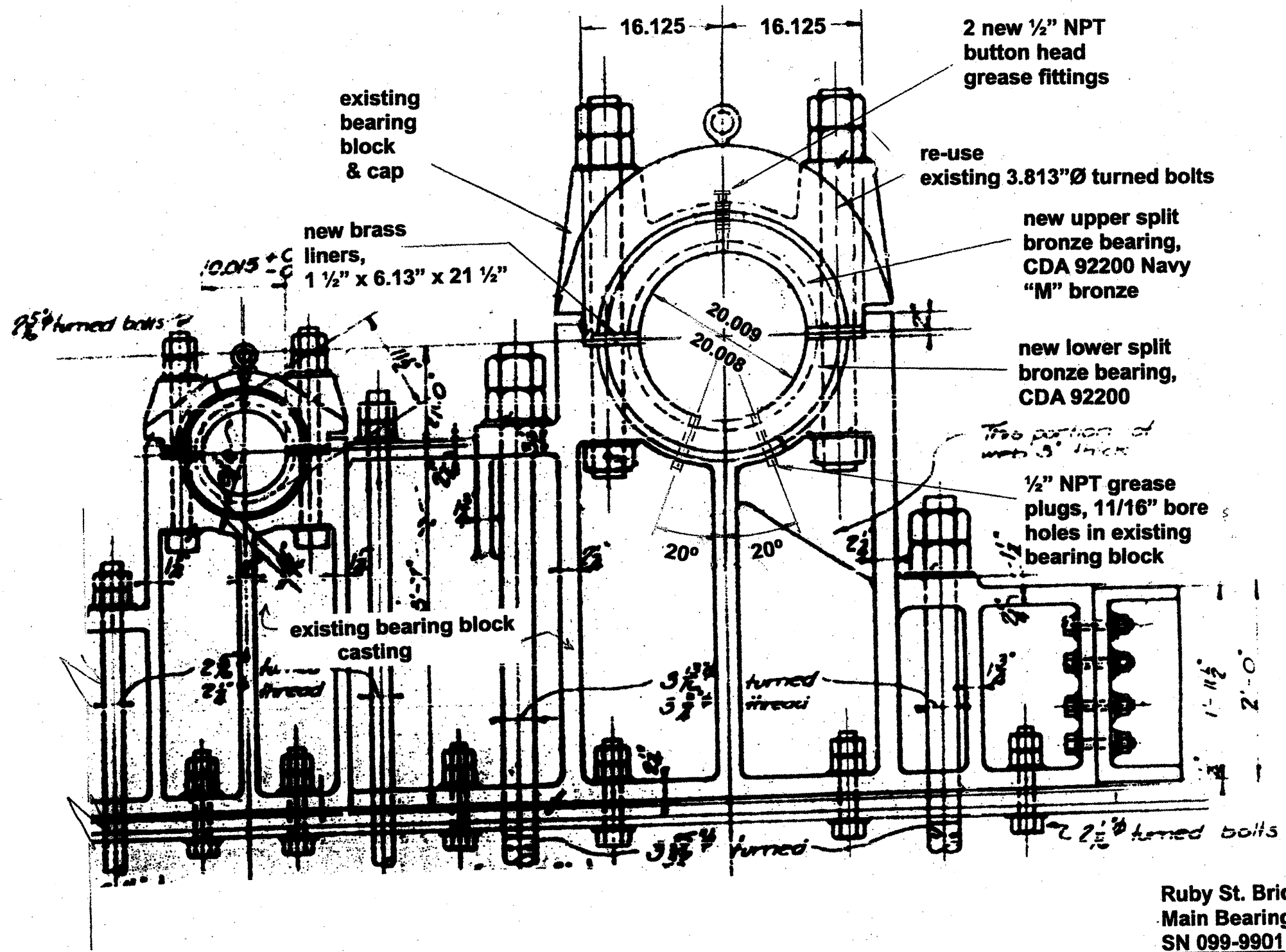
2	MACHINERY BEDS	PATT. NO. 2046-5076
2	"	" NO. 2047-5076
2	"	" NO. 2048-5076
2	"	" NO. 2049-5076
2	"	" NO. 2050-5076
4	GLARS 'B'	" NO. 2040-5077



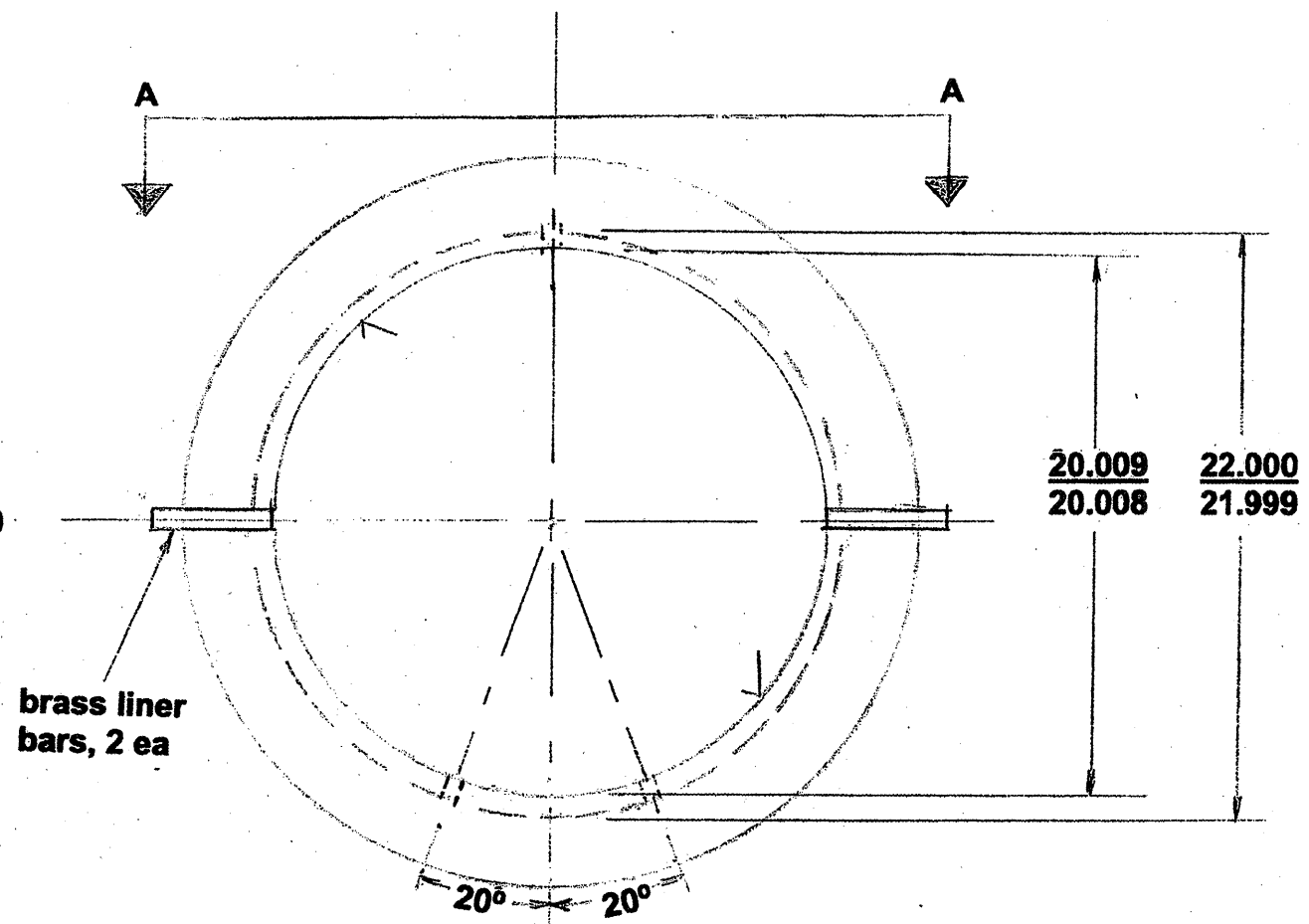
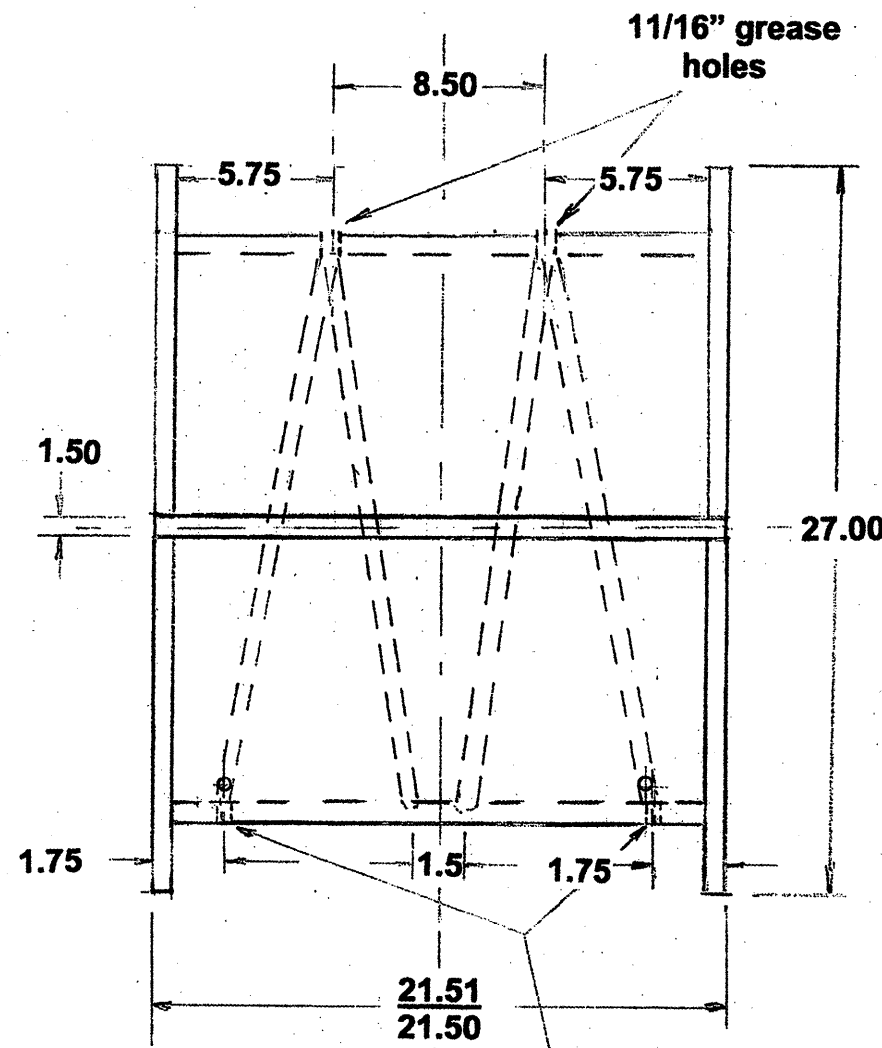
**NOTES:**  
 Spec. for steel for castings A.S.T.M. A21-24, 3rd 1930 class B Med. grade unannealed.  
 COVER FINISHED SURFACES WITH WHITE LEAD AND TALLOW.

**FOR INFORMATION ONLY**

FILE NAME =	USER NAME = mdyje	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RUBY STREET OVER DES PLAINES RIVER SN 099-9901</b>	F.A.P. RTE. 112	SECTION N-BDR-1	COUNTY WILL	TOTAL SHEETS 66	SHEET NO. 57
CONTRACT NO. 62714	ILLINOIS FED. AID PROJECT	SCALE:	SHEET NO. 10 OF 10 SHEETS			STA. TO STA.				
PLOT SCALE = 1/8" = 1'-0"	DATE = 7/1/2009	DRAWN -	REVISED -							
		CHECKED -	REVISED -							

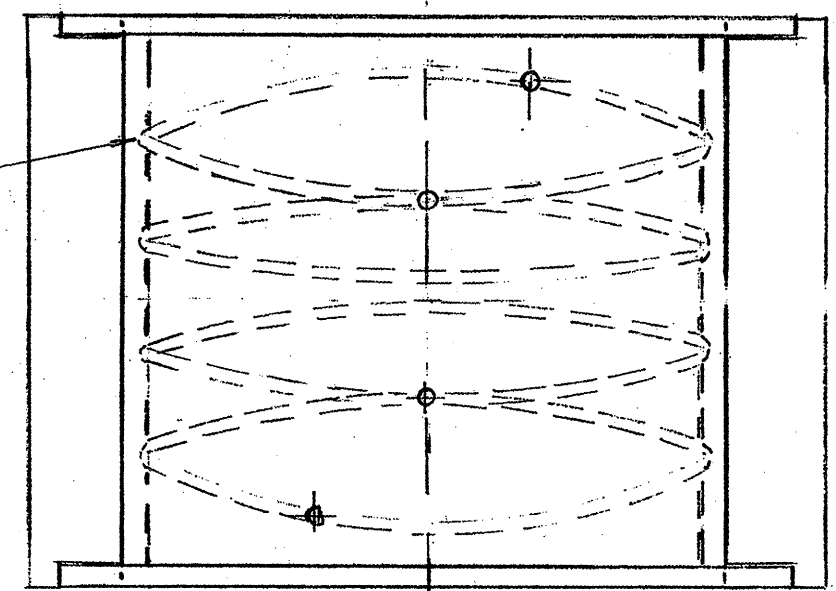


FILE NAME =	USER NAME = midyjo	DESIGNED - RTB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUBY STREET OVER DES PLAINES RIVER BEARING RETROFIT	F.A.P. RTE. 112	SECTION M-BDR-1	COUNTY WILL	TOTAL SHEETS 66	SHEET NO. 58		
ca:\pwwork\VPWIDOT\MIDYJA\0148931\011150	*sht-plen.dgn	DRAWN -	REVISED -			SCALE:	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 62714		
PLOT SCALE = 100.0000" / IN.	CHECKED -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT						
PLOT DATE = 7/21/2009	DATE -	REVISED -	REVISED -									



grease plug holes, 11/16"Ø

grease channel patterns; cut corresponding channels into brass liners to permit grease flow

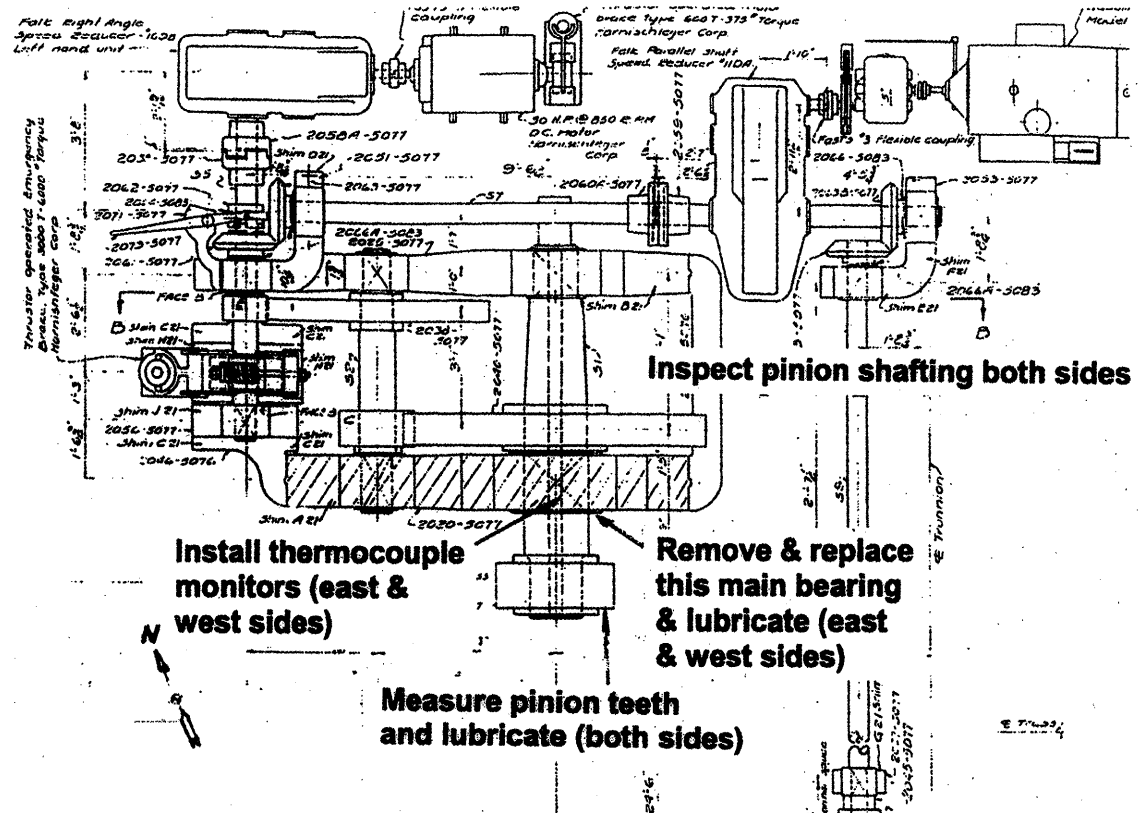


VIEW "A - A"

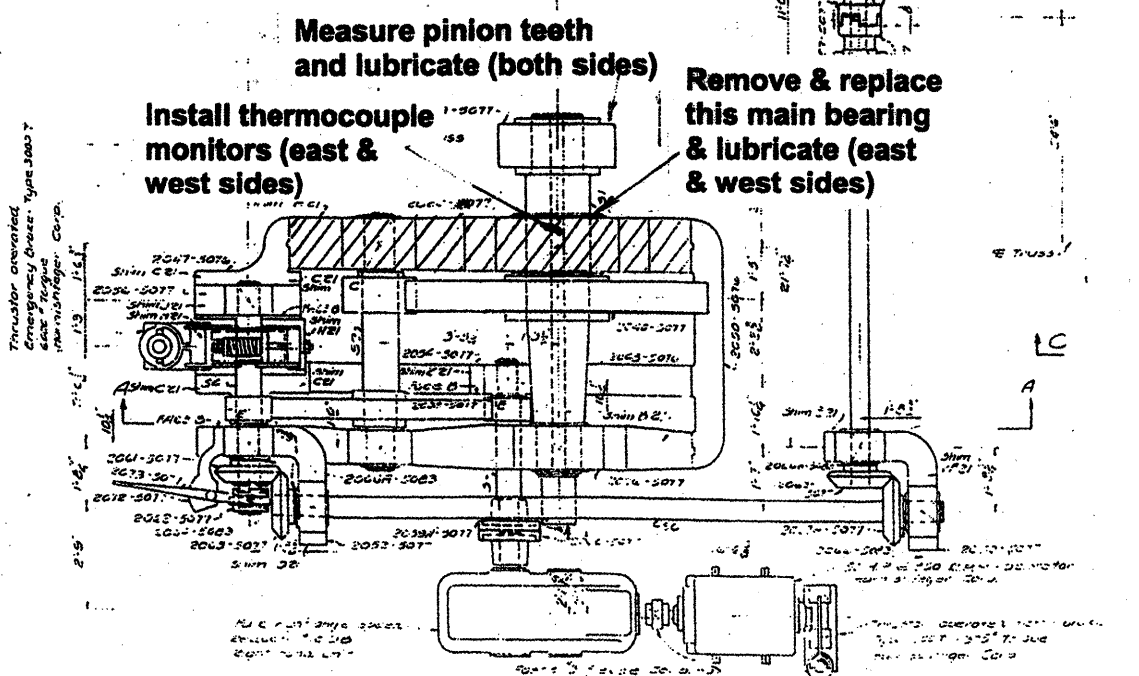
**Ruby St. Bridge  
Main Bearings**

**Material: CDA 92200  
Cast Navy "M" Bronze  
Liners: CDA 36000  
Free-Cutting Brass**

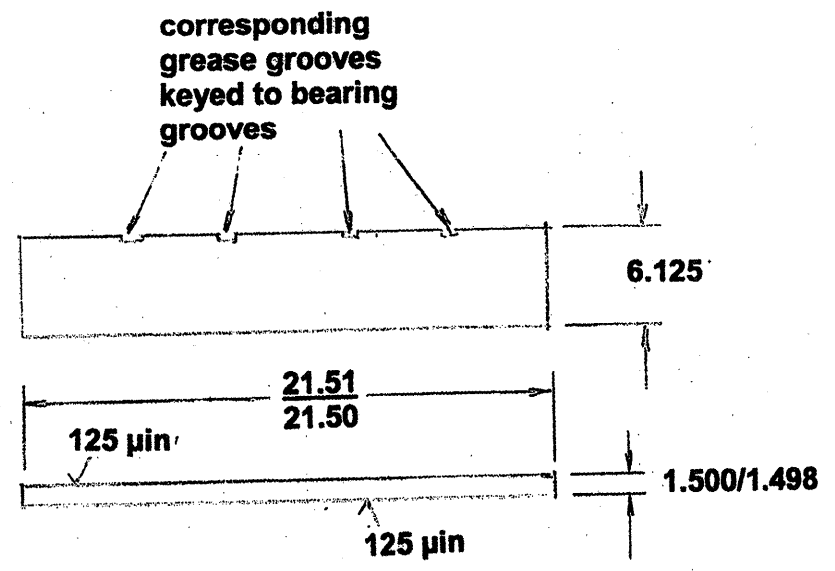
FILE NAME *	USER NAME = midgje	DESIGNED - <i>RTD</i>	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RUBY STREET OVER DES PLAINES RIVER BEARING RETROFIT</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pwork\pwork\pwork\MIDYJA\814831\011158	-sht-plendgn	DRAWN -	REVISED -			112	M-BDR-1	WILL	66	59	
	PLOT SCALE = 100.0000 / IN.	CHECKED -	REVISED -			CONTRACT NO. 62714					
	PLOT DATE = 7/21/2009	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE:	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.				



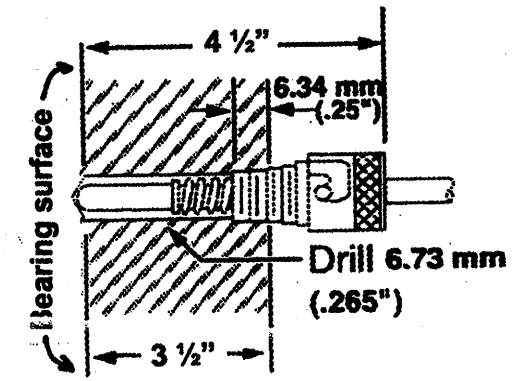
**WEST LEAF**  
 Machinery for each leaf is symmetrical  
 About this center line except as shown



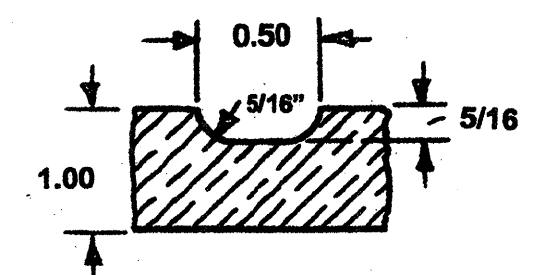
**MACHINERY DIAGRAM FOR WEST LEAF  
 RUBY ST. BRIDGE**



**Brass Liner Bars**  
 Material: CDA 36000  
 Free-Cutting Brass 1/2 Hard  
 Parallelism ±0.005

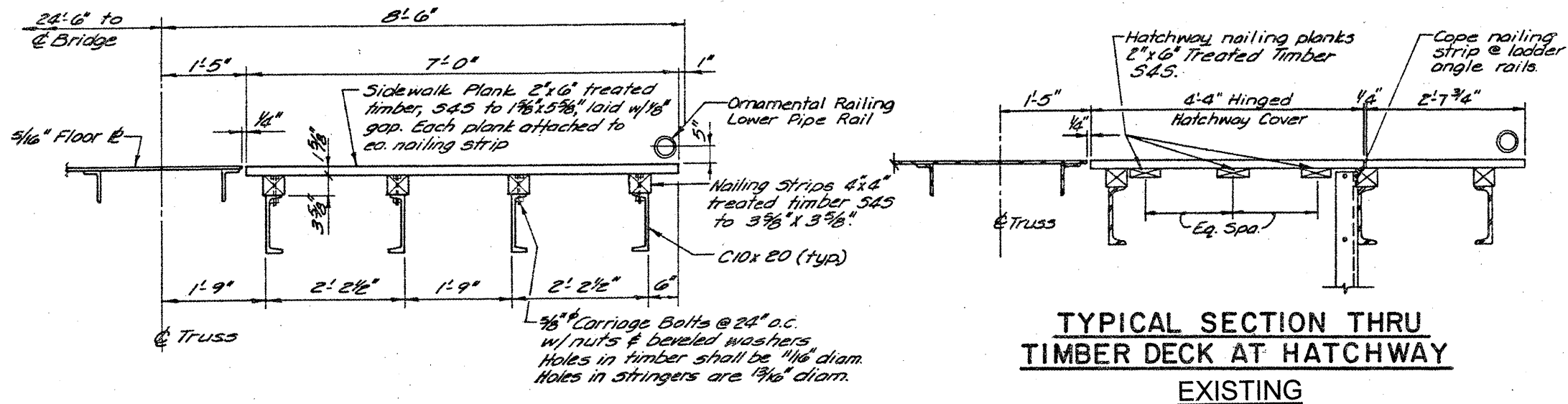


**THERMOCOUPLE DETAIL  
 Type J or K thermocouple**



**Grease Groove Detail**

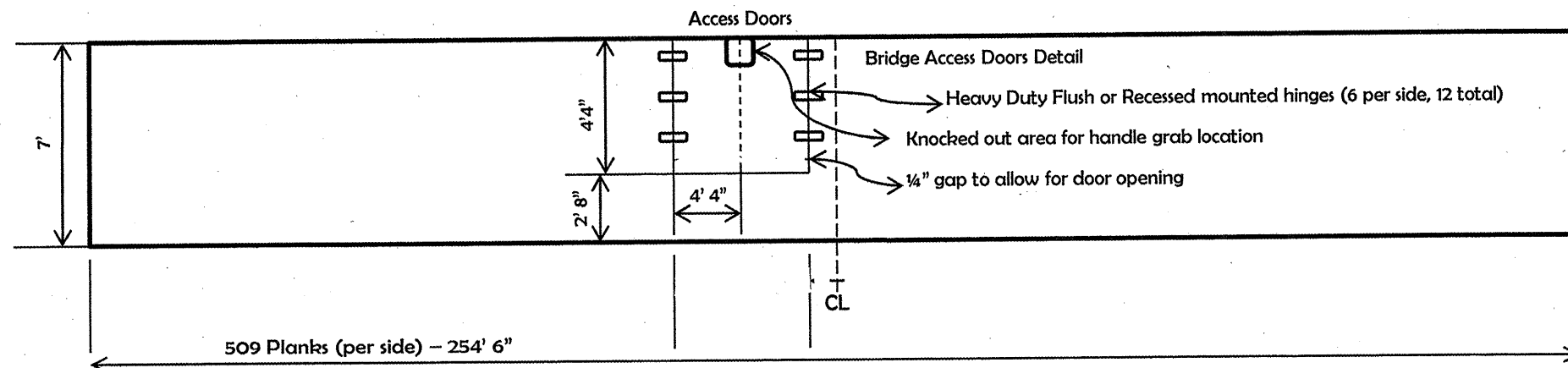
FILE NAME =	USER NAME = midyja	DESIGNED - RTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RUBY STREET OVER DES PLAINES RIVER BEARING RETROFIT</b>	F.A.P. RTE. 112	SECTION M-BDR-1	COUNTY WILL	TOTAL SHEETS 66	SHEET NO. 60		
CONTRACT NO. 62714	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -			SCALE:	SHEET NO. 3 OF 3 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
	PLOT DATE = 7/21/2009	DATE -	REVISED -									
<small>...101489311D111504-shr-plan.dgn 7/21/2009 10:33:53 AM User = midyja</small>												



**TYPICAL SECTION THRU TIMBER DECK SIDEWALK EXISTING**

APPROXIMATE ESTIMATED QUANTITIES  
 TIMBER: 1018 planks (3,563 sq. ft.) = 7,126 FBM  
 4" x 4" Nailing Strips = 128 (16' 0")  
 HARDWARE = see quantities outlined below

**NOTE: ONLY ONE SIDEWALK SHALL BE CLOSED AT A TIME**



**Timber Sidewalk Replacement Notes**

Use 4" x 4" Treated Timber Nailing Strip surfaced to 3 1/2" x 3 1/2". Secure nailing strip to sidewalk with 5/8" x 5" long galvanized carriage head bolts at 2' - 0" on center, using existing holes in channel stringers. Beveled galvanized washers are required on channels.

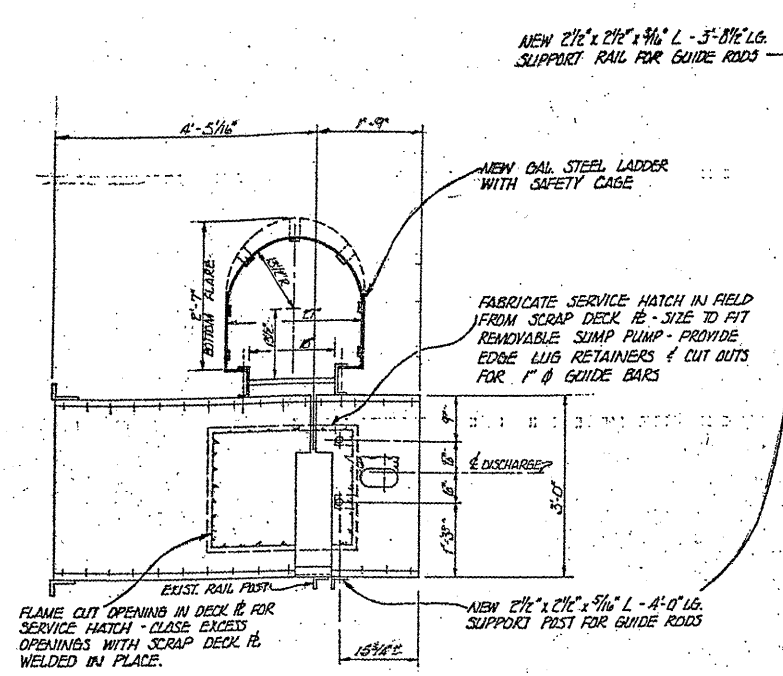
Use planks 2" x 6" x entire length of sidewalk. To attach planks to nailer, #10 x 3 1/2" deck screws. Leave 1/8" gap between planks.

**Schedule of Quantities Needed**

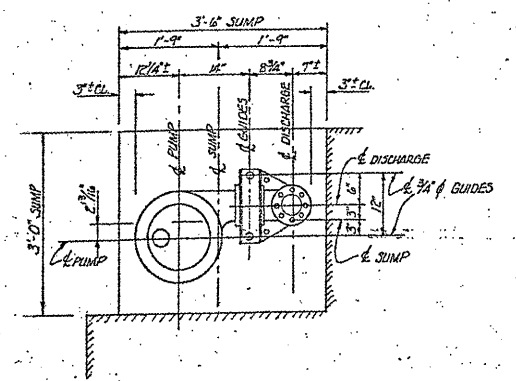
- 2" x 6" x 7' \*treated timbers = 1018 Each
- Nailing strips 4" x 4" x 16' treated timbers = 128 Each
- 5/8" x 4" carriage bolts & nuts = 1024 Each
- 5/8" diameter bevel head washers = 1024 Each
- #10 x 3 1/2" deck screws = 8300 Each
- Flush/Recessed Heavy Duty Hinges for Access Doors - 12 Each

ITEM	UNIT	QUANTITY
TIMBER SIDEWALK REMOVAL AND REPLACEMENT	L SUM	1

FILE NAME =	USER NAME = midyja	DESIGNED - RTB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUBY STREET OVER DES PLAINES RIVER TIMBER SIDEWALK REPLACEMENT	F.A.P. RTE. 112	SECTION M-BDR-1	COUNTY WILL	TOTAL SHEETS 66	SHEET NO. 61		
es:\p\work\pwsdot\midyja\0148931\0111584	sht-plan.dgn	DRAWN -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			
	PLOT SCALE = 1/8" = 1' / in.	CHECKED -	REVISED -									
	PLOT DATE = 6/30/2011	DATE -	REVISED -									



PLAN - PROPOSED PLATFORM MODIFICATIONS



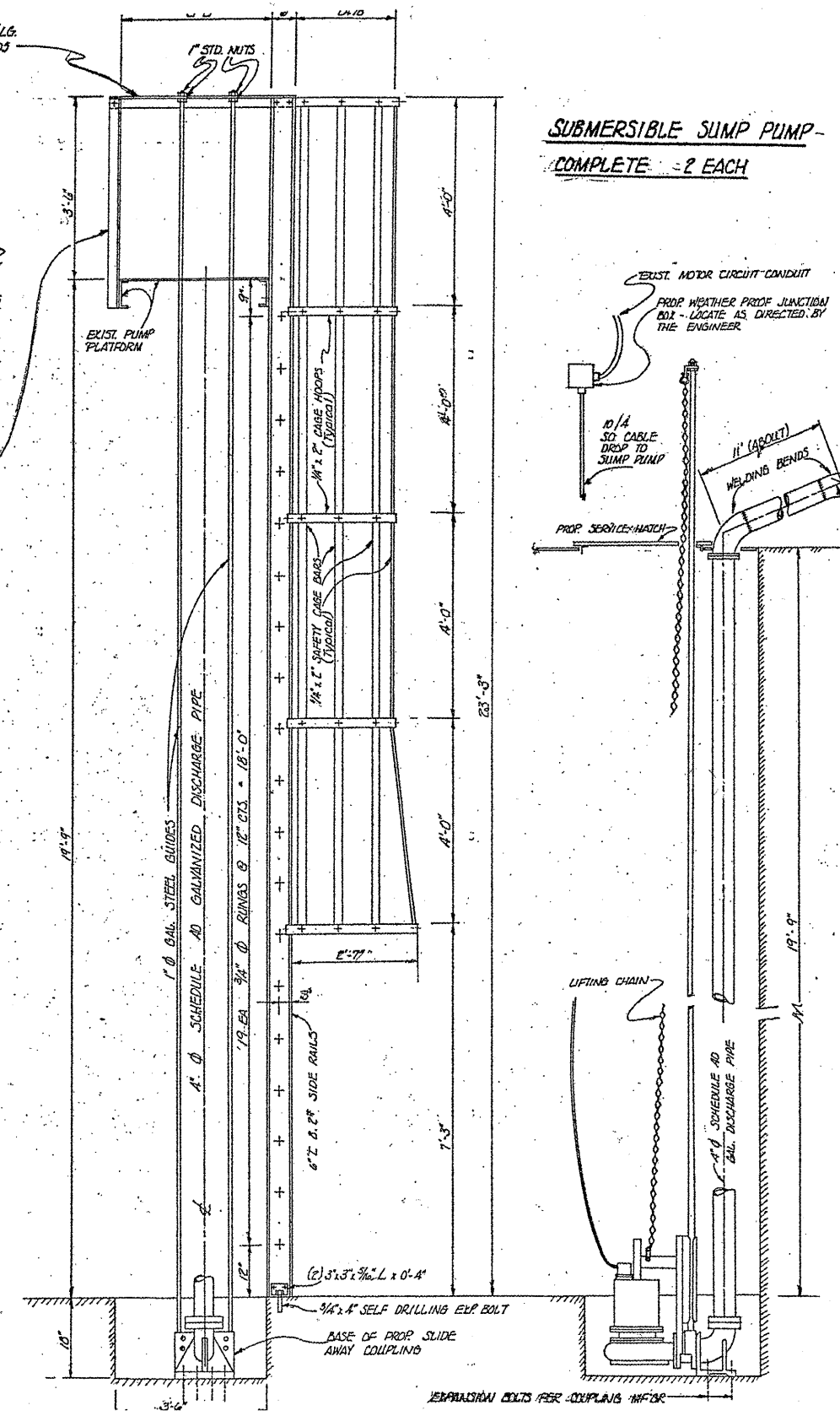
PLAN - PROPOSED SUMP PUMP LOCATION

PUMP SHALL BE HEAVY DUTY SUBMERSIBLE SEWAGE PUMP  
 1\"/>

**NOTE:**

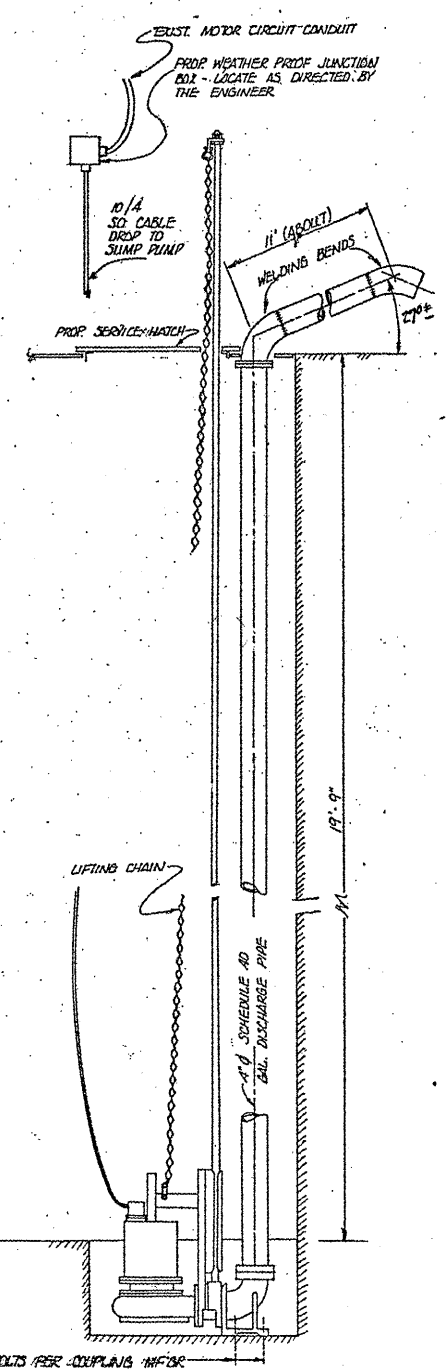
- REPLACE SUMP PUMPS AT EACH COUNTER WEIGHT PIT.
- WORKING SUMP PUMP AT EAST COUNTER WEIGHT PIT TO BE SALVAGED AND DELIVERED TO MOVABLE BRIDGE OFFICE.
- REPLACE ALL DISCHARGE PIPING AT BOTH COUNTER WEIGHT PITS.
- NEW SUMP PUMPS SHALL FIT ONTO EXISTING GUIDE RODS AND EXISTING SLIDE AWAY COUPLING.
- NEW PUMPS SHALL INCLUDE NEW POWER CABLE FROM EXISTING JUNCTION BOX AND NEW LIFTING CHAIN.

**BASIS OF PAYMENT:** SUMP PUMP REPLACEMENT SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE L SUM FOR SUMP PUMP REPLACEMENT.



ELEVATION - PROP LADDER & SAFETY CAGE - GUIDES & SUPPORTS - (STREAM SIDE ELEV.)

**SUBMERSIBLE SUMP PUMP - COMPLETE - 2 EACH**



SECTION THROUGH OF SUMP

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
SUMP PUMP REPLACEMENT	L SUM	1

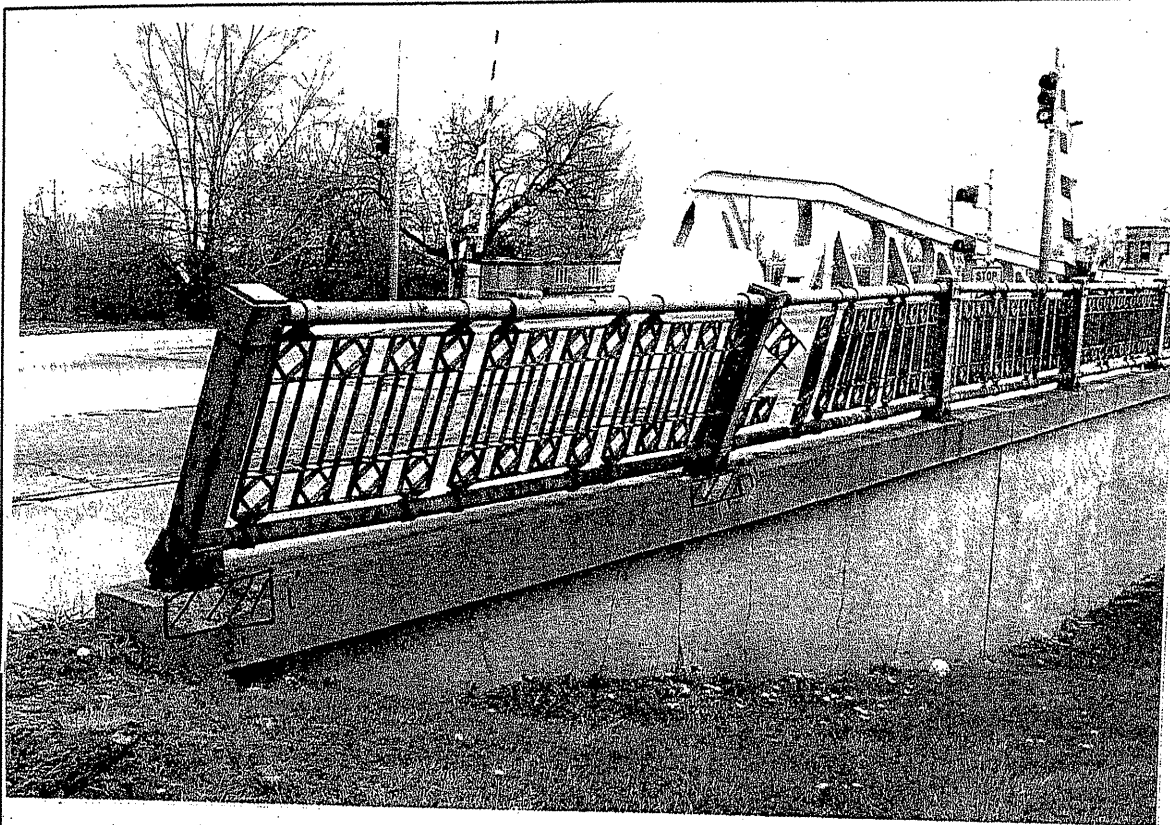
FILE NAME =	USER NAME = midjo	DESIGNED - RTB	REVISED -
ca:\pwwork\pwwork\midjo\0148931\0111584	sht-plen.dgn	DRAWN -	REVISED -
	PLOT SCALE = 1/8\"/>		
	PLOT DATE = 5/27/2011	CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RUBY STREET OVER DES PLAINES RIVER  
 SUMP PUMP REPLACEMENT**

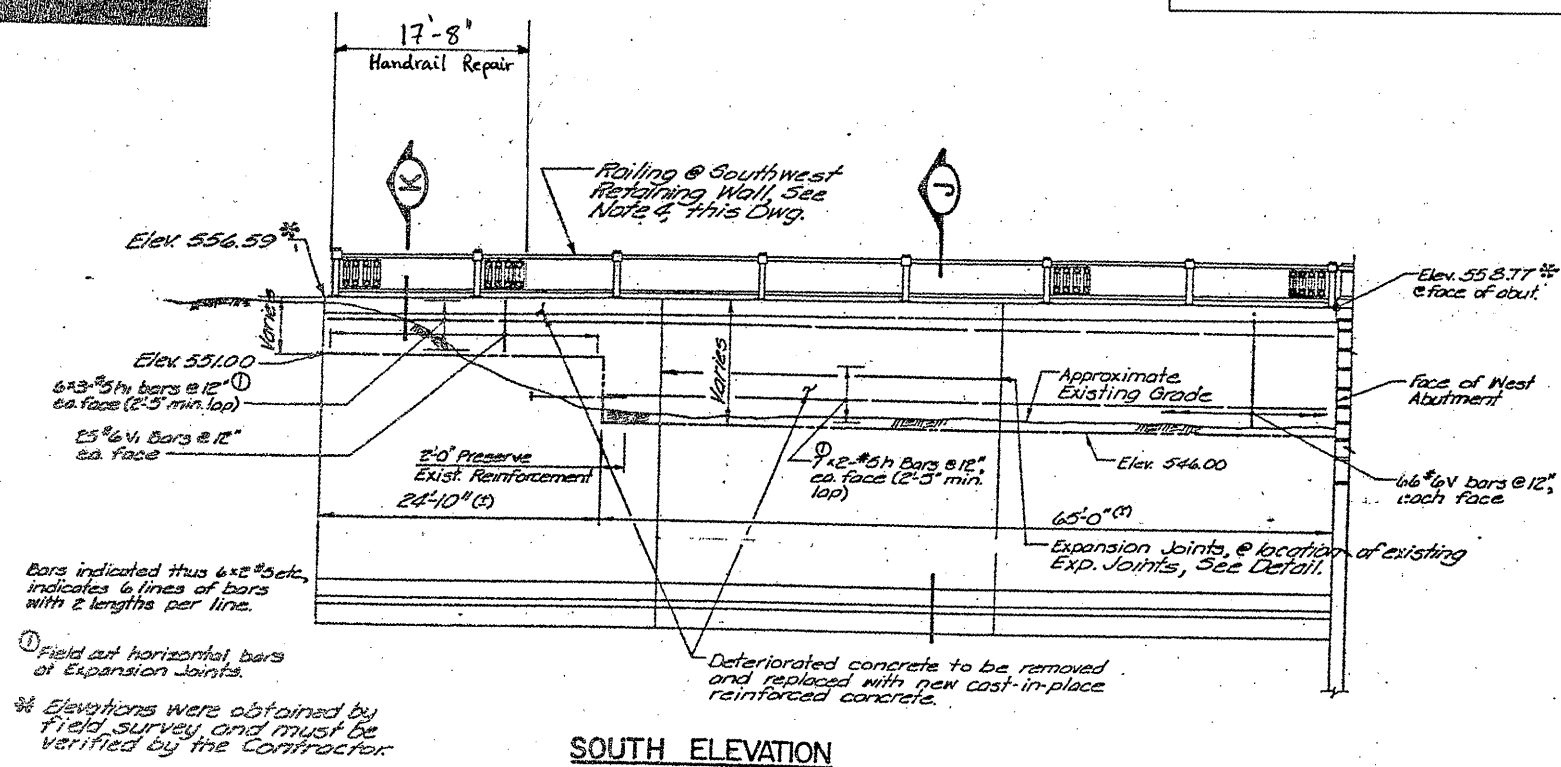
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 112	SECTION M-BDR-1	COUNTY WILL	TOTAL SHEETS 66	SHEET NO. 62
				CONTRACT NO. 62714
ILLINOIS FED. AID PROJECT				



**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
HANDRAIL REPAIRS	L SUM	1



**SOUTH ELEVATION**

FILE NAME =  
 c:\pw\_work\pwwork\midjje\0148931\DI11504

USER NAME = midjje  
 sht-plan.dgn  
 PLOT SCALE = 1/8" = 1' / IN.  
 PLOT DATE = 5/27/2011

DESIGNED - **RTD**  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
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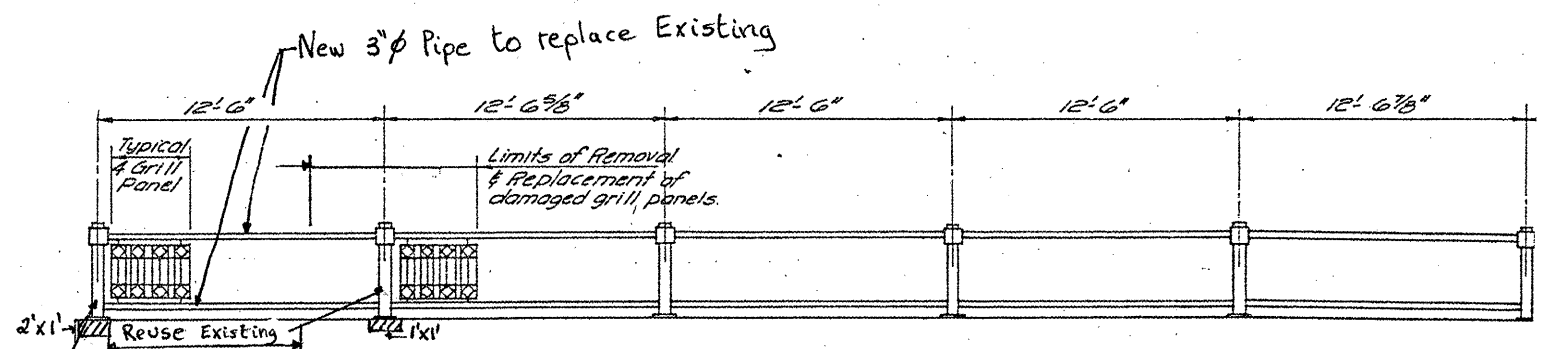
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RUBY STREET OVER DES PLAINES RIVER  
 HANDRAIL REPAIRS**

SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 112	SECTION M-BDR-1	COUNTY WILL	TOTAL SHEETS 66	SHEET NO. 63
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62714	



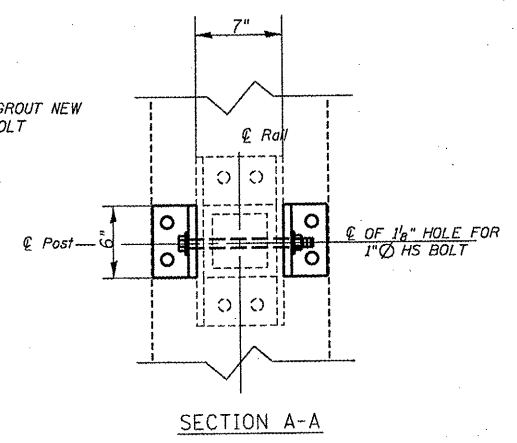
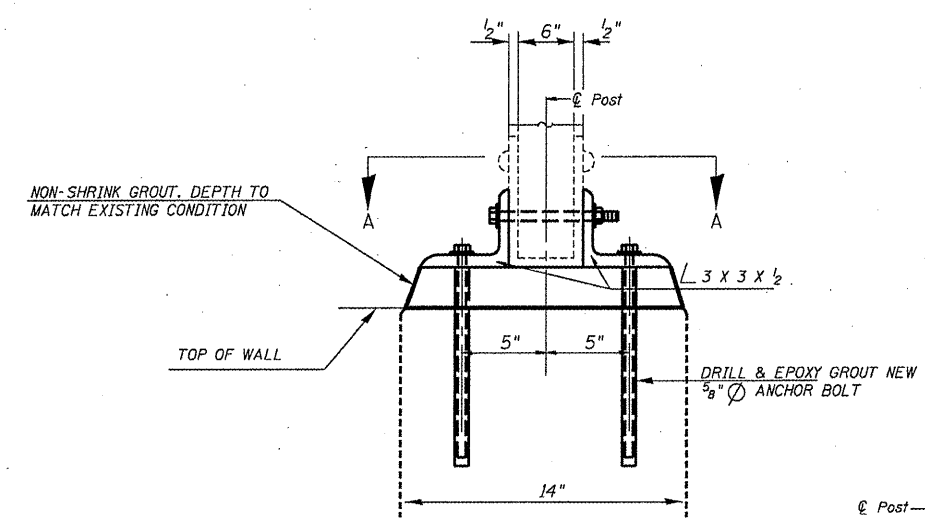


**RAILING AT SOUTHWEST RETAINING WALL**

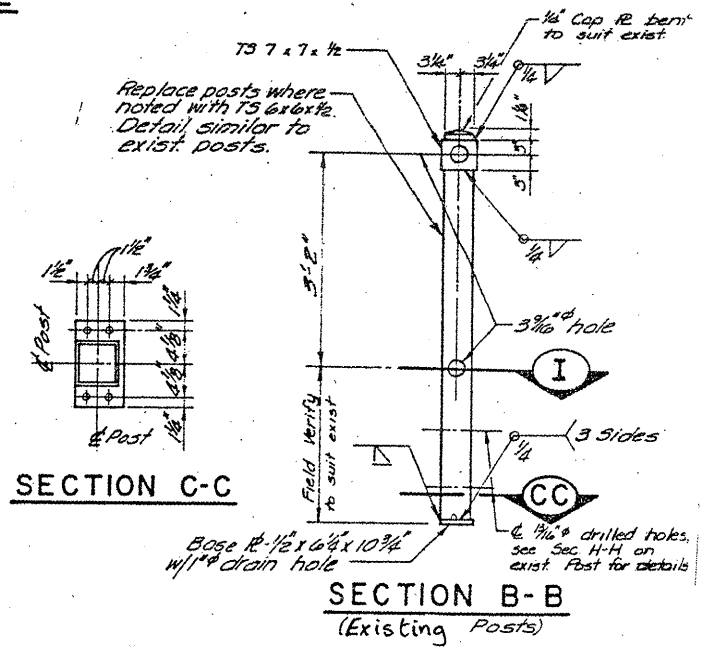
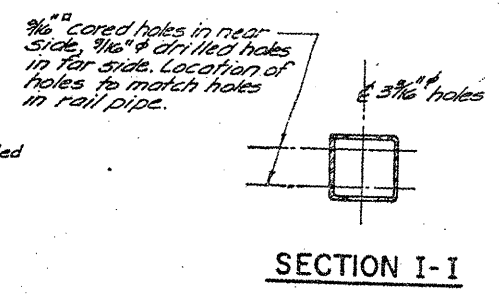
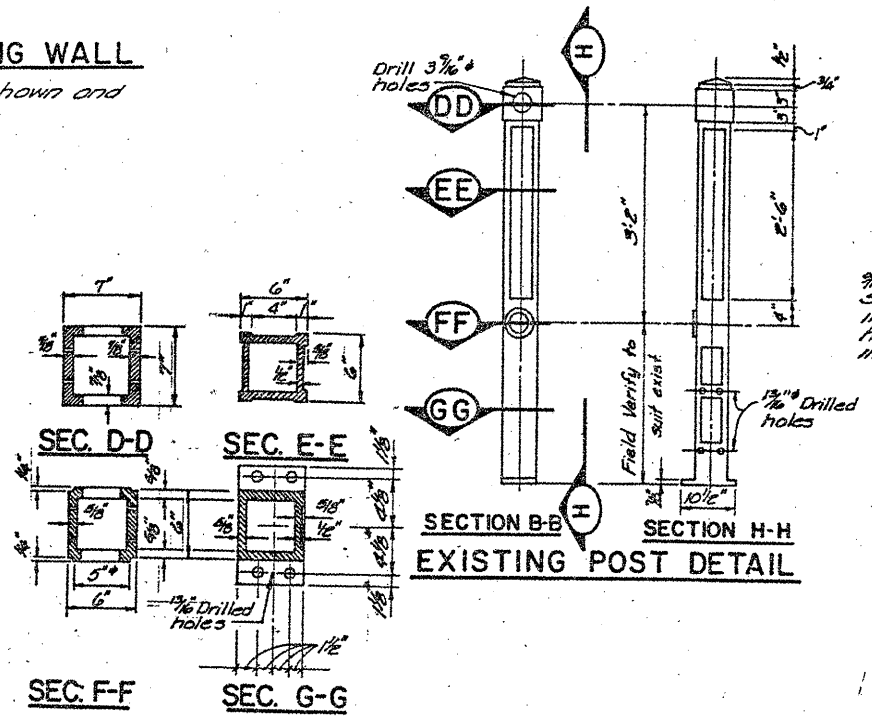
All Railing to be salvaged, repaired where shown and reinstalled, with new anchor bolts.

**LEGEND**

STRUCTURE REPAIR OF CONCRETE  $\leq$  5"



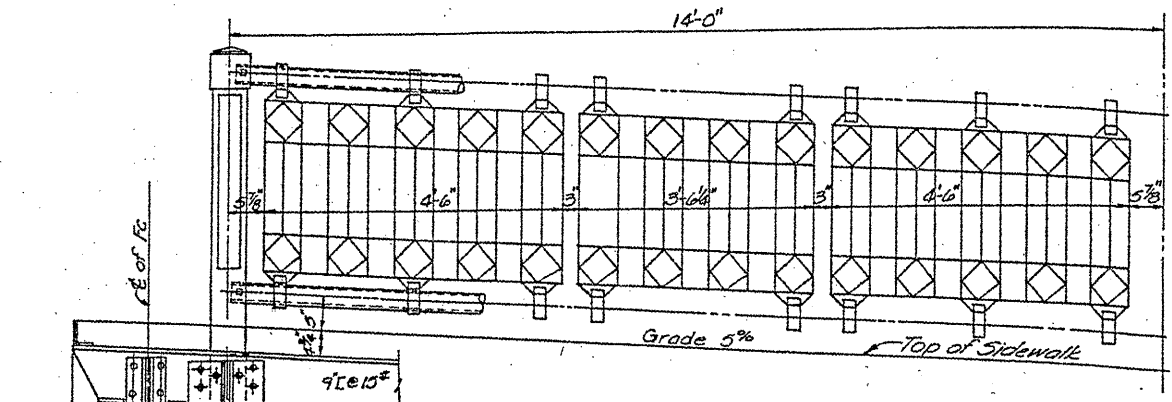
**BASIS OF PAYMENT:** DAMAGE HANDRAIL WILL BE REPLACED AND PAID FOR AT THE UNIT PRICE OF L SUM FOR HANDRAIL REPAIRS.



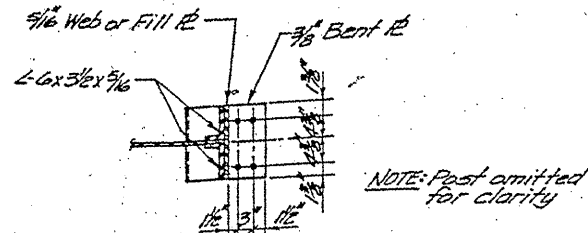
**NOTE:**  
RAILING SHALL BE REMOVED, REPAIRED AND REINSTALLED WITH NEW ANCHOR BOLTS, CLEANED AND PAINTED, ANCHOR BOLTS SHALL CONFORM TO ASTM A307.  
4- 5/8" O.H.S. THREADED ANCHOR RODS WITH HEX NUTS AND LOCK WASHERS, DRILLED AND SET ACCORDING TO ARTICLE 509.06 OF THE STANDARD SPECIFICATIONS, EMBEDMENT INTO THE EXISTING CONCRETE, NOT INCLUDING THE THICKNESS OF ANY LEVELING GROUT, SHALL BE ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS, ANCHOR BOLTS SHALL BE STAINLESS STEEL OR GALVANIZED.

- NOTES:**
- SEE DRAWING NO. G-2 FOR GENERAL NOTES.
  - DAMAGED RAILING SHALL BE REPAIRED BY REPLACEMENT OF BENT OR MISSING MEMBERS WITH NEW MEMBERS FABRICATED TO MATCH THE ORIGINAL CONSTRUCTION.
  - EXISTING POSTS ARE CAST IRON. EXISTING PANELS AND CAST FITTINGS ARE MALLEABLE IRON. EXISTING PIPE IS WROUGHT IRON.
  - REPLACEMENTS AND REPAIRS SHALL BE OF STRUCTURAL STEEL CONFORMING TO AASHTO M183, EXCEPT STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B.
  - REPLACE POSTS WHERE NOTED. DETAILS AND GEOMETRY SHALL BE SIMILAR TO EXISTING POSTS.
  - REPLACE OR REPAIR PANELS WHERE NOTED. DETAILS AND GEOMETRY SHALL BE SIMILAR TO EXISTING PANELS. NEW PANELS SHALL BE FABRICATED FROM 1/2" X 1" BAR STOCK.
  - REPLACE PIPE RAILS WHERE NOTED. DETAILS AND GEOMETRY SHALL BE SIMILAR TO EXISTING PIPE RAILS.
  - ORNAMENTAL RAILING SHALL BE CLEANED AND PAINTED.

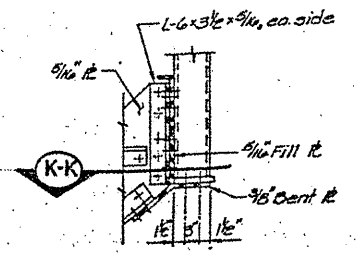
FILE NAME =	USER NAME = midyjo	DESIGNED -	RTD	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUBY STREET OVER DES PLAINES RIVER HANDRAIL REPAIRS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
as:\pw\work\p\midot\midyjo\d0148931\011150	sht-plen.dgn	DRAWN -		REVISED -				112	M-BDR-1	WILL	66	64
	PLOT SCALE = 1/8" = 1'-0"	CHECKED -		REVISED -						CONTRACT NO. 62714		
	PLOT DATE = 6/28/2011	DATE -		REVISED -						ILLINOIS FED. AID PROJECT		
							SCALE:	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.		



**RAILING FOR PANEL C-D ON APPROACH SPAN**  
(For Information Only: No Repairs)

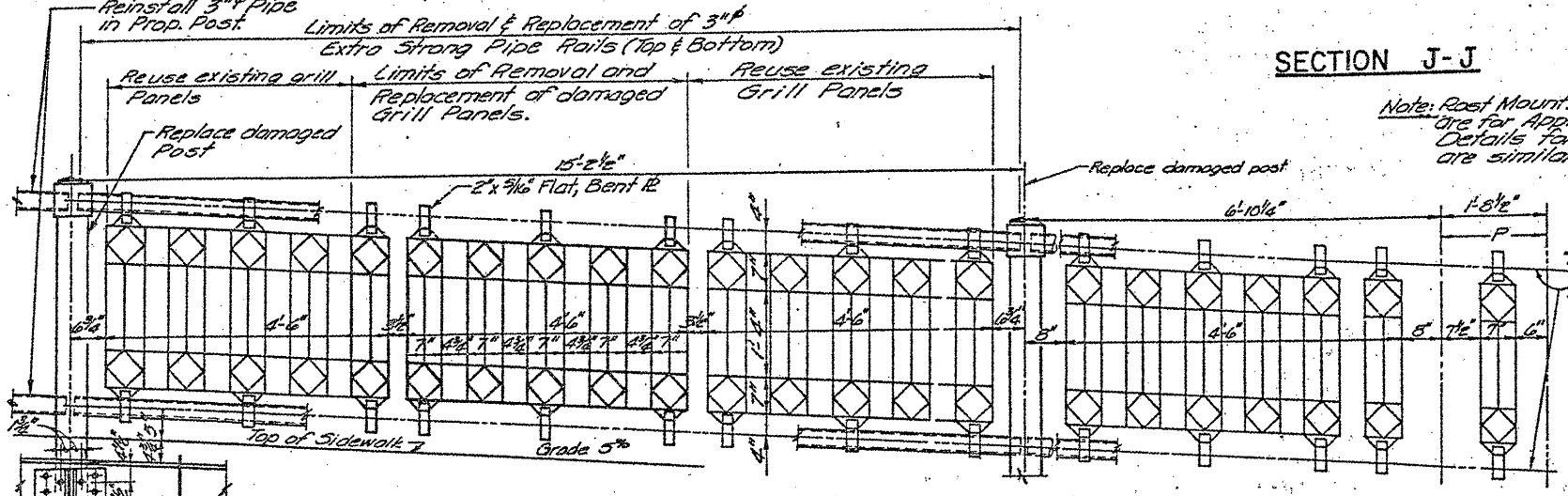


**SECTION K-K**



**SECTION J-J**

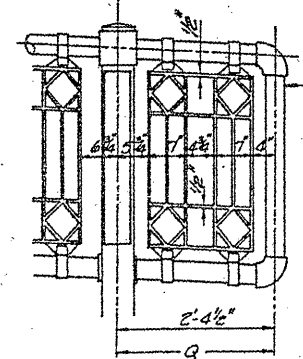
Note: Post Mounting Details shown are for Approach Span. Details for Bascule Spans are similar.



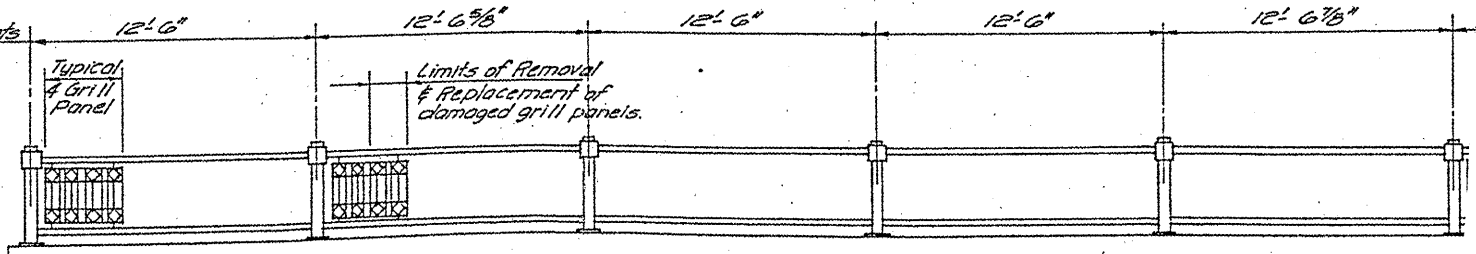
**SOUTH RAILING FOR PANEL FG ON APPROACH SPAN**  
(Panels DE, EF & GH, North and South and Panel FG, North are similar, with no repairs.)

**NORTH RAILING FOR PANEL G-H ON APPROACH SPAN**  
(No repairs)

**FOR INFORMATION ONLY**



**DETAILS AT Q**  
(For Information Only: No repairs)

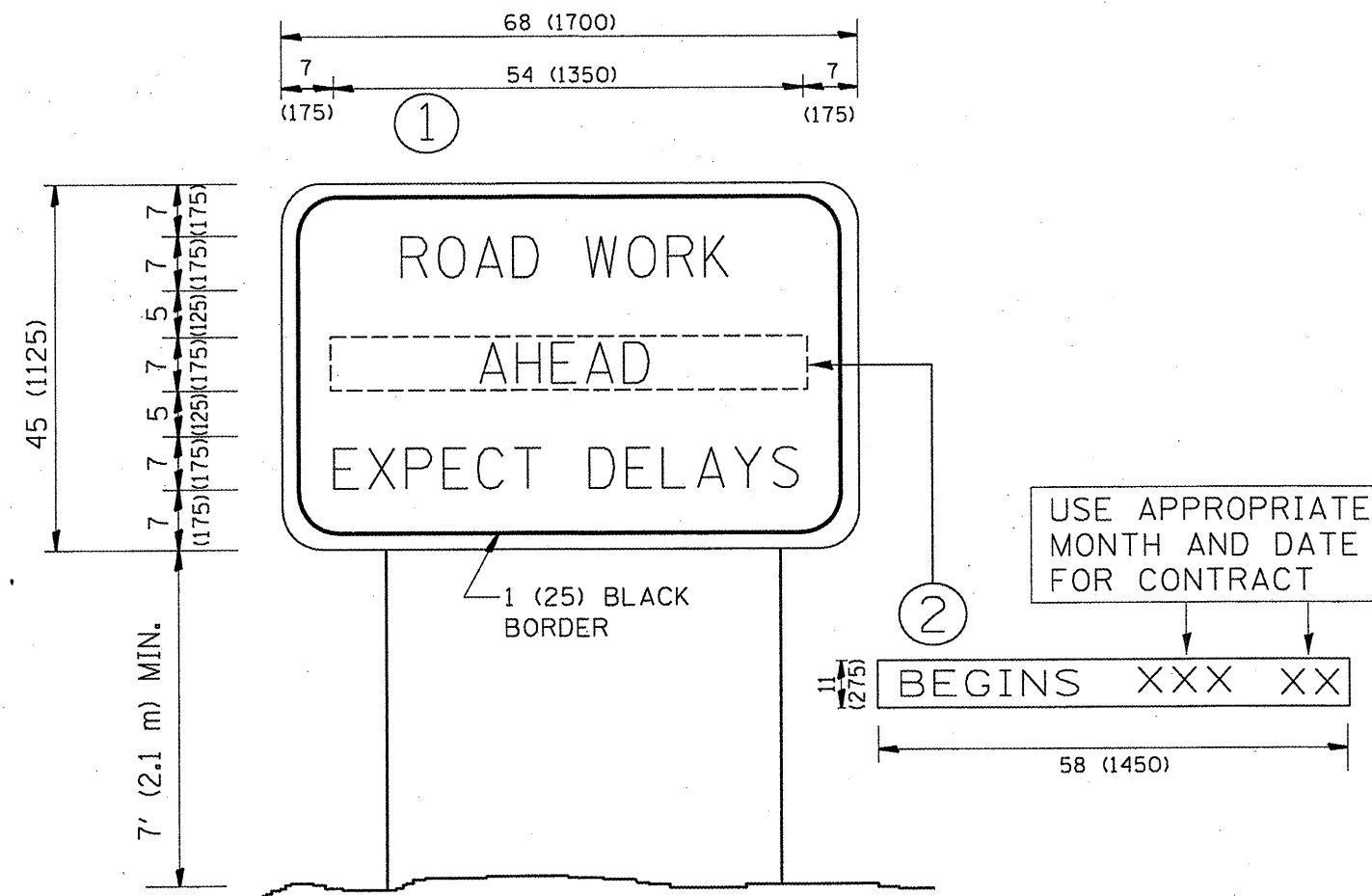


Retaining wall ornamental railing details are similar to bridge spans, ornamental railing details. (No shop drawings are available.)

**RAILING AT SOUTHWEST RETAINING WALL**

All Railing to be salvaged, repaired where shown and reinstalled, with new anchor bolts.

FILE NAME =	USER NAME = midyo	DESIGNED - RTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RUBY STREET OVER DES PLAINES RIVER HANDRAIL REPAIRS</b>	F.A.P. RTE. 112	SECTION M-BDR-1	COUNTY WILL	TOTAL SHEETS 66	SHEET NO. 65		
es:\pw\work\pwwdot\midyo\0148931\0111504.sht-plan.dgn	PLOT SCALE = 1/8" = 1'-0"	DRAWN -	REVISED -			SCALE:	SHEET NO. 3 OF 3 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
PLOT DATE = 5/27/2011	DATE -	CHECKED -	REVISED -									



**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = mdyjo	DESIGNED - <b>RTB</b>	REVISED - R. MIRS 09-15-97
os:\pvt\work\pawdot\mdyjo\0148931\DistStd.dgn		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 6/30/2011	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN			
SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	M-BDR-1	WILL	66	66
TC-22			CONTRACT NO. 62714	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				