

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAU ROUTE 5571 (AVENUE "G")  
SECTION D2 BRIDGE REPAIR 2014-2  
TYPE OF IMPROVEMENT: BRIDGE REPAIR  
SN 098-0051 OVER THE NORTH BRANCH OF THE ROCK RIVER  
SN 098-0052 OVER THE SOUTH BRANCH OF THE ROCK RIVER  
WHITESIDE COUNTY

C-92-116-13

FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR STATE STANDARDS, SEE SHEET NO. 2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS
5571	D2 BRIDGE REPAIR 2014-2	WHITESIDE	33
		ILLINOIS CONTRACT NO.	64J92

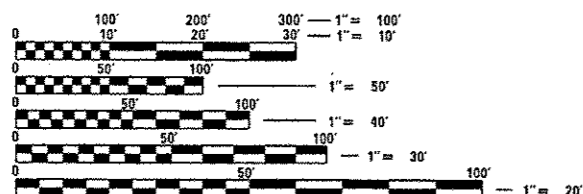
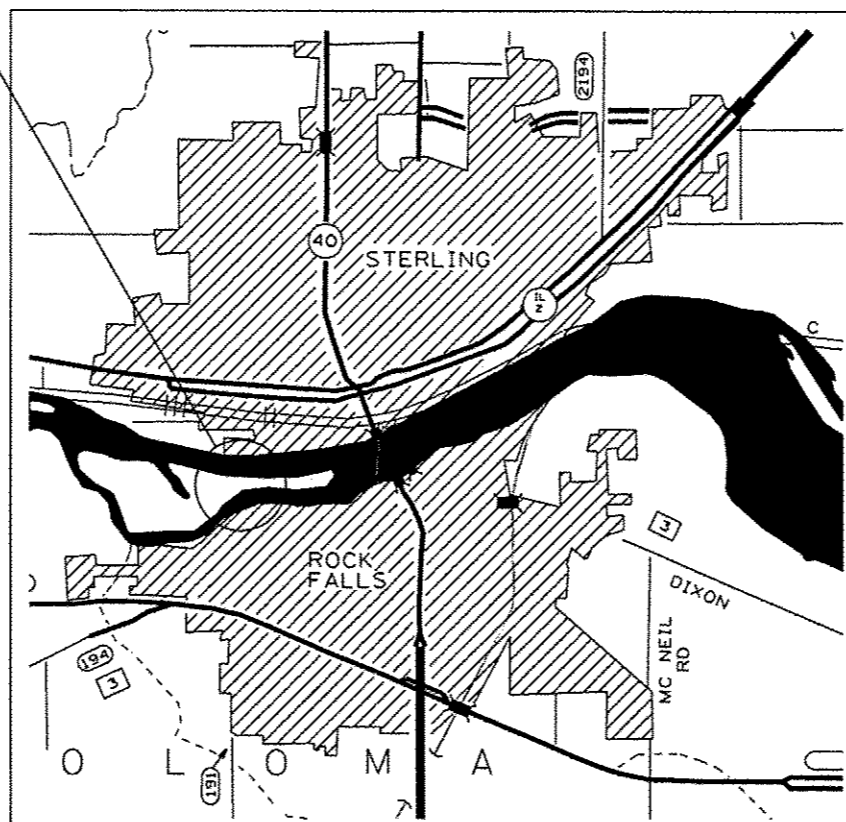
\*33 + 2 = 35

D-92-077-13



SN 098-0051  
SN 098-0052

STERLING COLOMA TOWNSHIP, SECTIONS 21,28



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

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

PROJECT ENGINEER: DAVID DOSS (815) 284-5416  
PROJECT MANAGER: MAHMOUD ETEMADI (815) 284-5393

CONTRACT NO. 64J92

GROSS LENGTH = x.xx FT. = x.xxx MILE  
NET LENGTH = x.xx FT. = x.xxx MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED March 28<sup>th</sup> 2014  
Paul C. [Signature]  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 9 2014  
John D. Baranzelli PE, [Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

May 9 2014  
Ones Osman PE, [Signature]  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

Rev. 6-3-14

# INDEX OF SHEETS

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* 22 - 32	EXISTING PLAN SHEETS FOR SN 098-0051 & 098-0052
33	TRAFFIC CONTROL FOR ROAD CLOSURE (DIST STD 40.1)

△  
\* Added 32A, 32B.

# STATE STANDARDS

701006 - 05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701201 - 04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301 - 04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311 - 03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701801 - 05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901 - 03	TRAFFIC CONTROL DEVICES
720011 - 01	SIGN PANEL MOUNTING DETAILS
728001 - 01	TELESCOPING STEEL SIGN SUPPORT
729001 - 01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)

# GENERAL NOTES

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

Electric:  
COMMONWEALTH EDISON COMPANY  
ATTN: NORA FERNANDEZ  
123 ENERGY AVENUE  
ROCKFORD, IL 61109

CITY OF ROCK FALLS  
ATTN: DICK SIMON  
1109 INDUSTRIAL PATK ROAD  
ROCK FALLS, IL 61071

Telephone:  
AT&T  
ATTN: DAVID CREEN  
2800 7TH STREET  
MOLINE, IL 61265

US SPRINT  
ATTN: JAMES BURTON  
5600 N RIVER ROAD/  
ROSEMONT, IL 60018

Water:  
IL AMERICAN WATER COMPANY  
304 SECOND AVENUE  
STERLING, IL 61081

CITY OF ROCK FALLS  
ATTN: TED PADILLA  
603 WEST 10TH STREET  
ROCK FALLS, IL 610071

Sewer:  
CITY OF ROCK FALLS  
ATTN: EDWARD COX  
603 WEST 10TH STREET  
ROCK FALLS, IL 61071

CITY OF STERLING  
ATTN: SCOTT SHUMARD  
212 3RD AVENUE  
STERLING, IL 61081

Gas:  
NICOR GAS CO.  
ATTN: CONSTANCE LANE  
1844 FERRY ROAD  
NAPERVILLE, IL 60563

CATV:  
COMCAST CABLE  
ATTN: MICHAEL OWENS  
4450 KISHWAUKEE STREET  
ROCKFORD, IL 61109

Communications:  
G4S TECHNOLOGY, LLC  
1428 SHERMAN ROAD  
ROMEDEVILLE, IL 60446

IDOT is not a member of JULIE. If you are near any overhead lighting, intersection lighting or traffic signals, contact the IDOT Traffic Office at 815/284-5469 at least 48 hours prior to work.

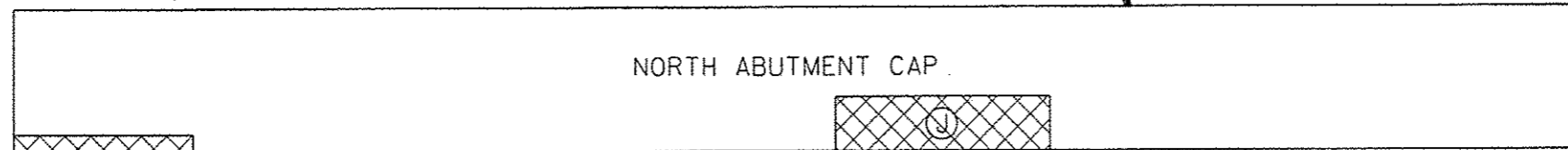
NO STREAM PERMITS HAVE BEEN PROCURED FOR THIS PROJECT. NONE ARE REQUIRED FROM THE REGULATORY AGENCIES AS LONG AS THERE IS NO DEBRIS FALLING OR BEING PLACED INTO THE STREAM. ANY TEMPORARY FILL IN THE STREAM OR THE COMPROMISING OF THE DIKE (IF APPLICABLE) WILL NOT BE ALLOWED. IF THE CONTRACTOR CHOOSES TO USE ALTERNATE/MODIFIED CONSTRUCTION METHOD(S) FROM THE AFOREMENTIONED, THEY WILL BE RESPONSIBLE FOR OBTAINING THE PROPER PERMITS. NO RELIEF OR COMPENSATION WILL BE GIVEN FOR ANY DELAYS, WORKING DAYS CHARGED OR CALENDAR DAYS EXPIRED AS A RESULT OF THE LOSS OF TIME OR DELAY DURING THE RE-SUBMITTAL PROCESS TO PROCURE THE NECESSARY PERMIT(S) DUE TO THE CONTRACTOR CHOOSING ALTERNATE/MODIFIED CONSTRUCTION METHOD(S). ABSOLUTELY NO CONSTRUCTION ACTIVITIES WILL TAKE PLACE WITHOUT THE PROPER PERMITS BEING SECURED.

FILE NAME :	USER NAME : doesdd	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS & STATE STANDARDS & GENERAL NOTES	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Draws\Whiteside\64J92 Repairs SN 098-0051 & SN 098-0052\CADD\207713-shr-cover.dwg	DRAWN - _____	REVISED - _____	5571			02 BRIDGE REPAIR 2014-2	WHITESIDE	33	2	
PLOT SCALE : 100.0000' / 1" =	CHECKED - _____	REVISED - _____	CONTRACT NO. 64J92							
Default	PLOT DATE : Fri Mar 28 11:06:45 2014	DATE - _____	SCALE: _____			SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____	ILLINOIS FED. AID PROJECT		

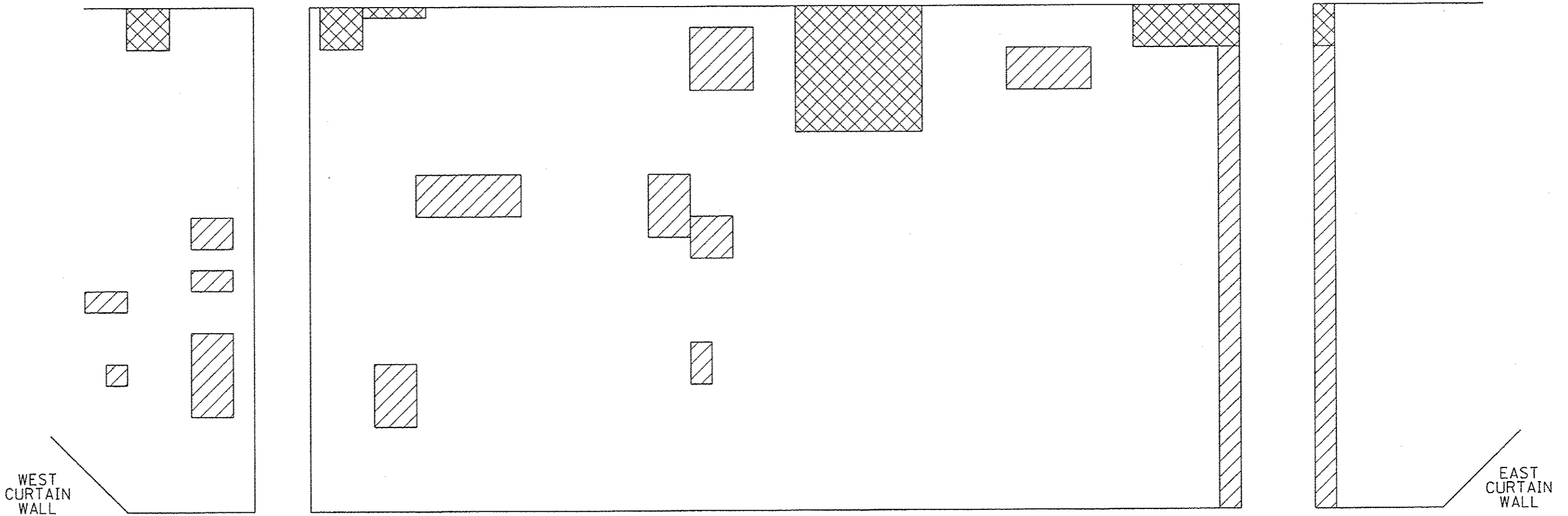
△ Rev. 6-3-14

# SUBSTRUCTURE REPAIR DETAIL

## SN 098-0051 NORTH ABUTMENT (LOOKING NORTH)



GIRDER REACTIONS		
R DL =	55	kip
R LL =	41	kip
R Imp. =	14	kip
R TOTAL =	110	kip



SN 098-0051  
NORTH ABUTMENT (LOOKING NORTH)

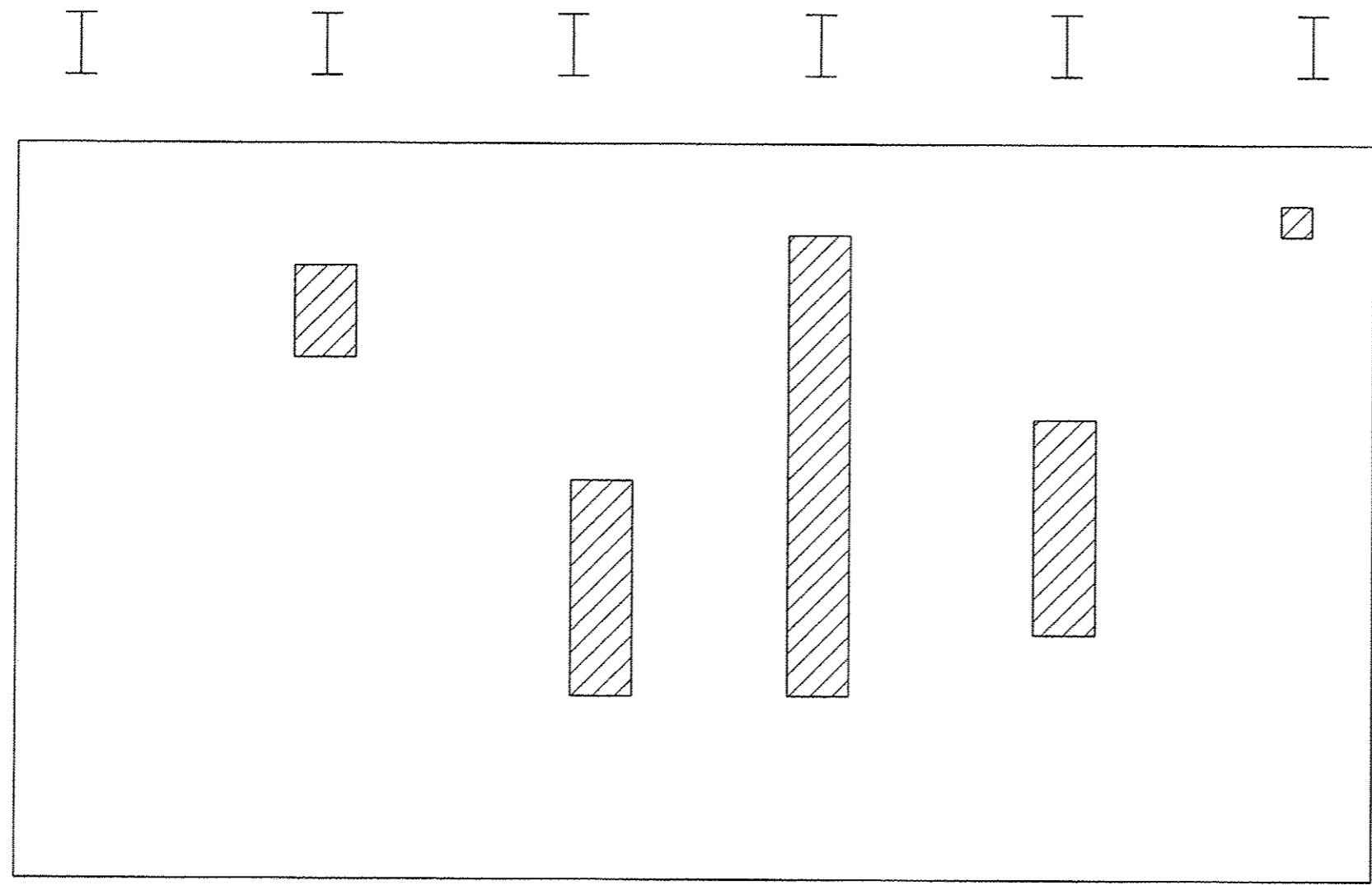
ITEM	QUANTITY
(*) STRUCTURAL REPAIR OF CONCRETE $\leq$ 5"	67.5 (SQ FT)
(*) STRUCTURAL REPAIR OF CONCRETE $>$ 5"	93.0 (SQ FT)
TEMPORARY SHORING AND CRIBBING	1 (EACH)

(\*) THIS IS AN ESTIMATED QUANTITY. THE ACTUAL LOCATION OF DELAMINATED AREAS AND QUANTITIES WILL BE DETERMINED BY THE RESIDENT ENGINEER IN THE FIELD.

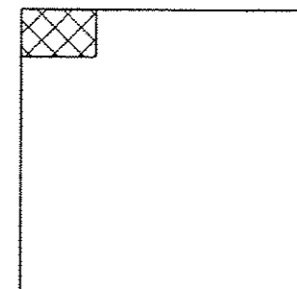
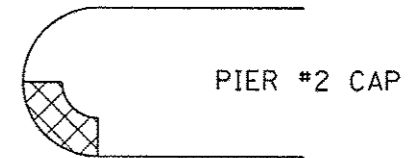
- Ⓧ JACKING AND CRIBBING LOCATION
- ⊠ DELAMINATED AREA  $>$  5"
- ▨ DELAMINATED AREA  $\leq$  5"

# SUBSTRUCTURE REPAIR DETAIL

## SN 098-0051 SOUTH ABUTMENT (LOOKING SOUTH)



SN 098-0051  
SOUTH ABUTMENT (LOOKING SOUTH)



SN 098-0051  
PIER #2 (EAST NOSE - SOUTH SIDE)

ITEM	QUANTITY
(*) STRUCTURAL REPAIR OF CONCRETE $\leq$ 5"	47.0 (SQ FT)
(*) STRUCTURAL REPAIR OF CONCRETE $>$ 5"	2.0 (SQ FT)

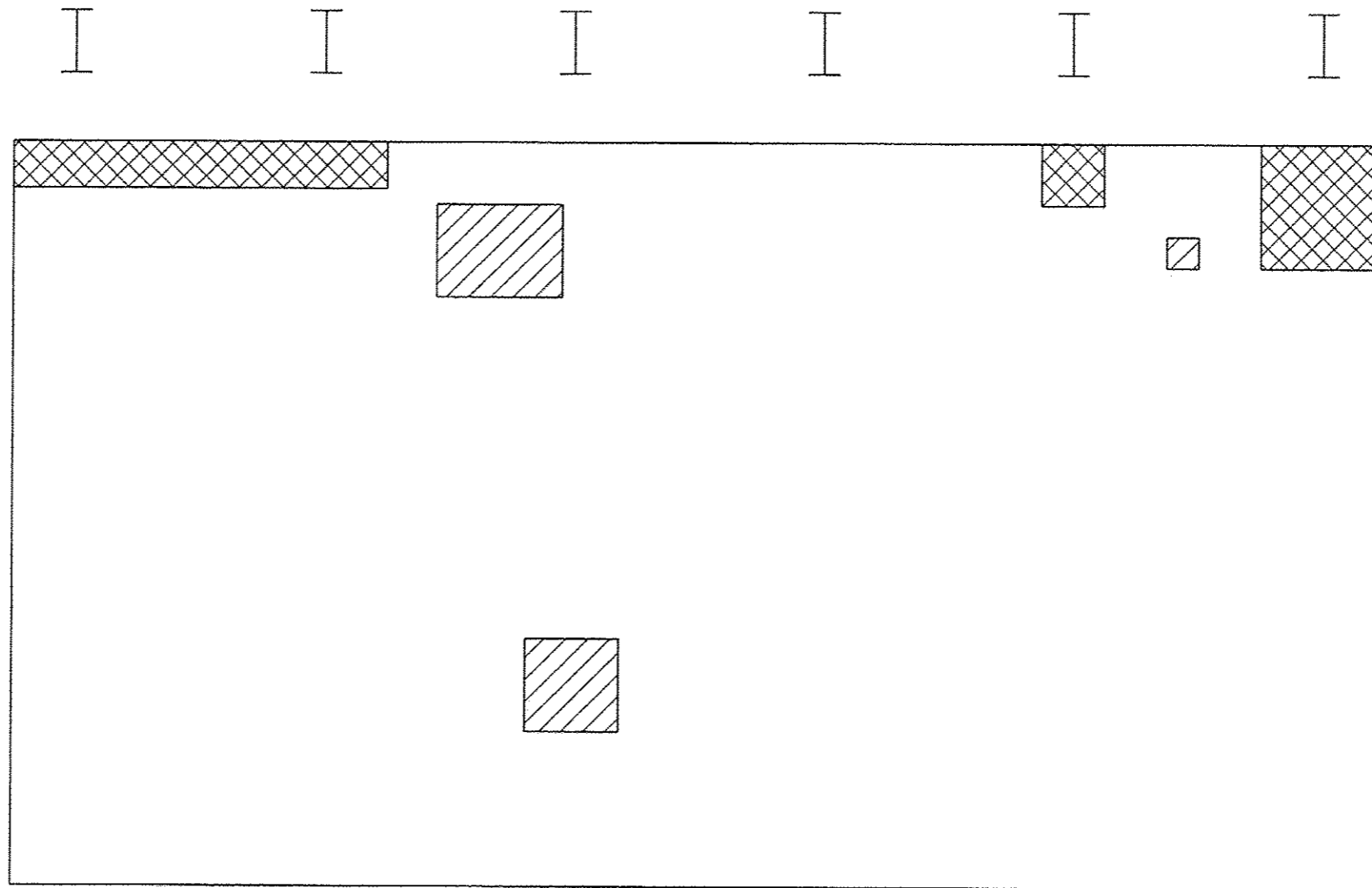


(\*) THIS IS AN ESTIMATED QUANTITY. THE ACTUAL LOCATION OF DELAMINATED AREAS AND QUANTITIES WILL BE DETERMINED BY THE RESIDENT ENGINEER IN THE FIELD.

- Ⓧ TEMPORARY SHORING AND CRIBBING
- ▨ DELAMINATED AREA  $>$  5"
- ▧ DELAMINATED AREA  $\leq$  5"

# SUBSTRUCTURE REPAIR DETAIL

## SN 098-0051 PIER #3 (NORTH FACE - LOOKING SOUTH)



SN 098-0051  
PIER #3 (NORTH FACE - LOOKING SOUTH)

ITEM	QUANTITY
(*) STRUCTURAL REPAIR OF CONCRETE =< 5"	22.0 (SQ FT)
(*) STRUCTURAL REPAIR OF CONCRETE > 5"	38.0 (SQ FT)



(\*) THIS IS AN ESTIMATED QUANTITY. THE ACTUAL LOCATION OF DELAMINATED AREAS AND QUANTITIES WILL BE DETERMINED BY THE RESIDENT ENGINEER IN THE FIELD.

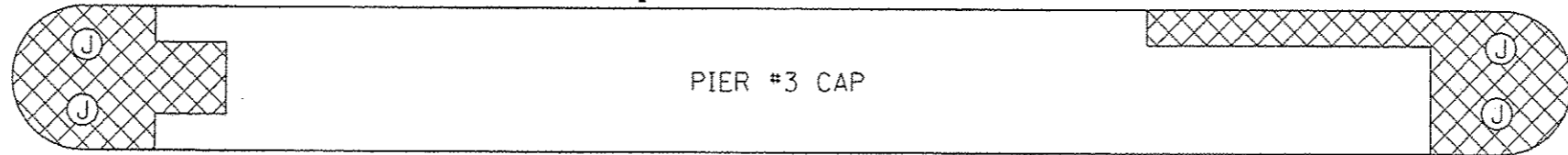
Ⓧ TEMPORARY SHORING AND CRIBBING

⊗ DELAMINATED AREA > 5"  
 ⊘ DELAMINATED AREA =< 5"

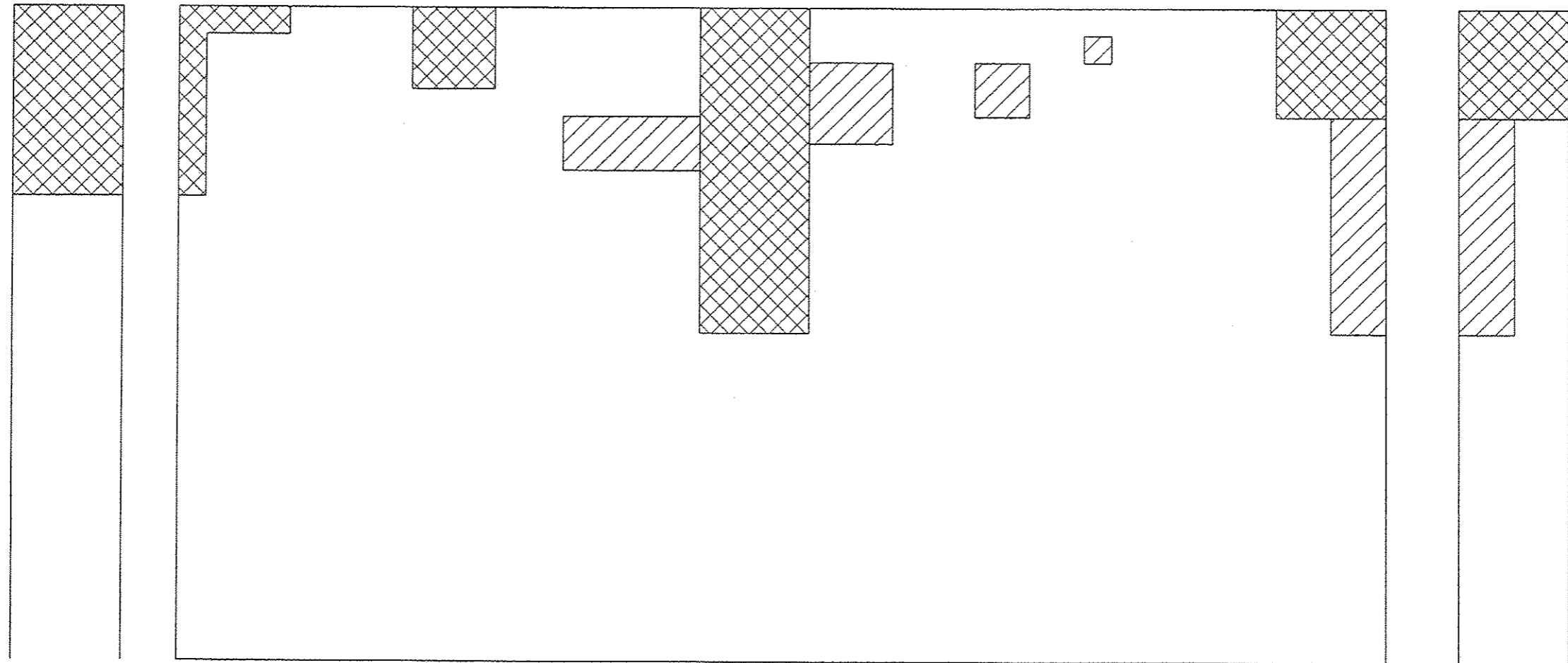
FILE NAME *	USER NAME * dmsdtd	DESIGNED -	REVISED - 5/28/2014 DDD	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUBSTRUCTURE REPAIR DETAIL SN 098-0051 PIER #3 (NORTH FACE - LOOKING SOUTH)</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Ooss\Whiteside\64J92 Repairs SN 098-0051 & SN 098-0052\CADD\0207713-ehs-cove		DRAWN -	REVISED -			5571	D2 BRIDGE REPAIR 2014-2	WHITESIDE	33	7
Default	PLOT SCALE * 100.0000' / in.	CHECKED -	REVISED -		SCALE: _____ SHEET _____ OF _____ SHEETS					
	PLOT DATE * Wed May 28 09:49:38 2014	DATE -	REVISED -		STA. _____ TO STA. _____					CONTRACT NO. 64J92
ILLINOIS FED. AID PROJECT										

# SUBSTRUCTURE REPAIR DETAIL

## SN 098-0051 PIER #3 (SOUTH FACE - LOOKING NORTH)



GIRDER REACTIONS			
R DL =	55	kips	
R LL =	41	kips	
R Imp. =	14	kips	
R TOTAL=	110	kips	



WEST END

SN 098-0051  
PIER #3 (SOUTH FACE - LOOKING NORTH)

EAST END

ITEM	QUANTITY
(*) STRUCTURAL REPAIR OF CONCRETE $\leq$ 5"	88.5 (SQ FT)
(*) STRUCTURAL REPAIR OF CONCRETE $>$ 5"	159.0 (SQ FT)
TEMPORARY SHORING AND CRIBBING	<b>4</b> (EACH)

(\*) THIS IS AN ESTIMATED QUANTITY. THE ACTUAL LOCATION OF DELAMINATED AREAS AND QUANTITIES WILL BE DETERMINED BY THE RESIDENT ENGINEER IN THE FIELD.

- J JACKING AND CRIBBING LOCATION
- DELAMINATED AREA  $>$  5"
- DELAMINATED AREA  $\leq$  5"

FILE NAME *	USER NAME * dssdd	DESIGNED -	REVISED - <b>5/28/2014 DDD</b>
D:\BR\Draw\Whiteside\64J92 Repairs SN 098-0051 & SN 098-0052\CADD\0207713-shr.cove		DRAWN -	REVISED -
Default	PLOT SCALE * 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE * Wed Apr 30 08:02:14 2014	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

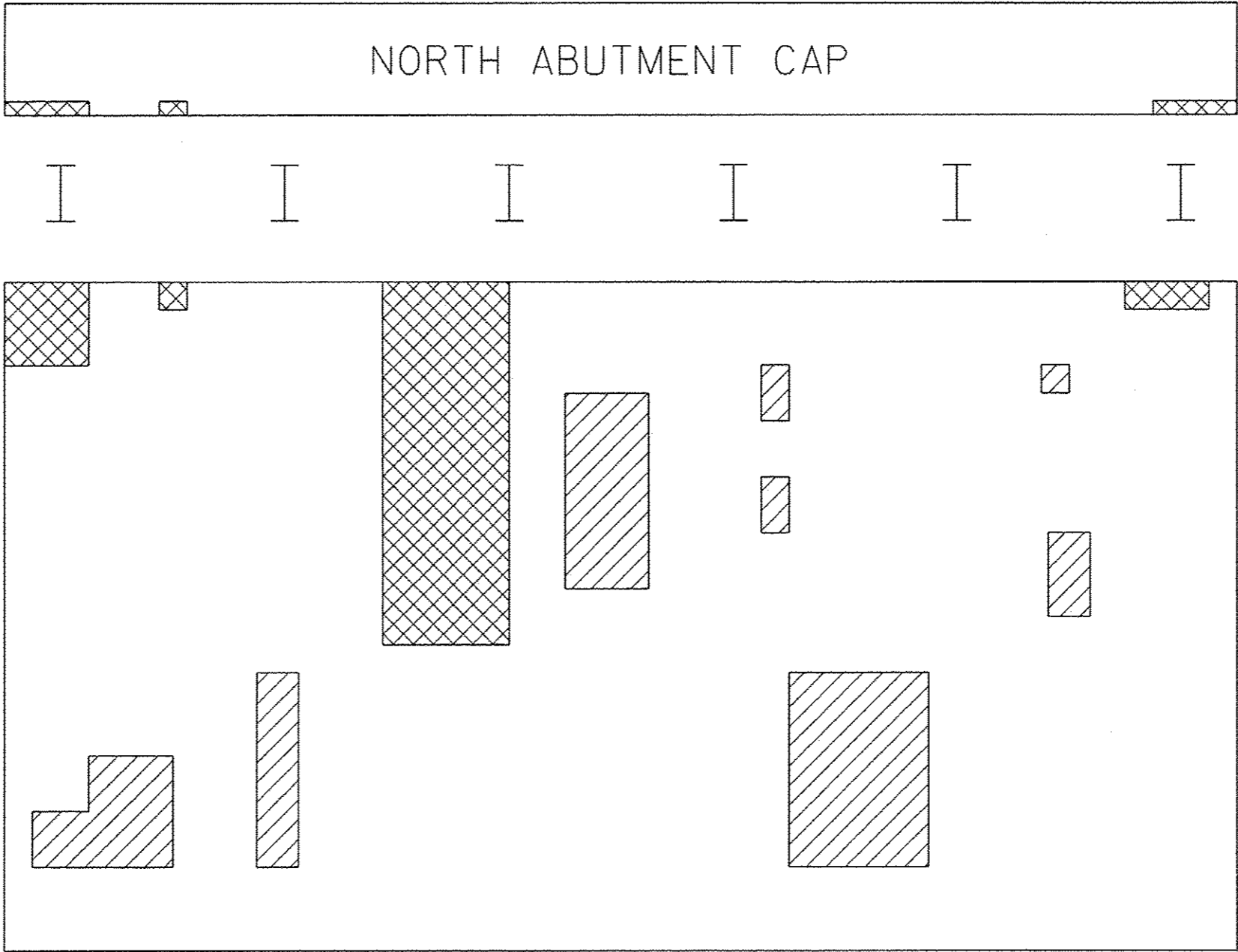
SUBSTRUCTURE REPAIR DETAIL			
SN 098-0051 PIER #3 (SOUTH FACE - LOOKING NORTH)			
SCALE: _____	SHEET _____	OF _____ SHEETS	STA. _____ TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5571	02 BRIDGE REPAIR 2014-2	WHITESIDE	33	8
CONTRACT NO. 64J92				

ILLINOIS FED. AID PROJECT

# SUBSTRUCTURE REPAIR DETAIL

## SN 098-0052 NORTH ABUTMENT (LOOKING NORTH)



SN 098-0052  
NORTH ABUTMENT (LOOKING NORTH)

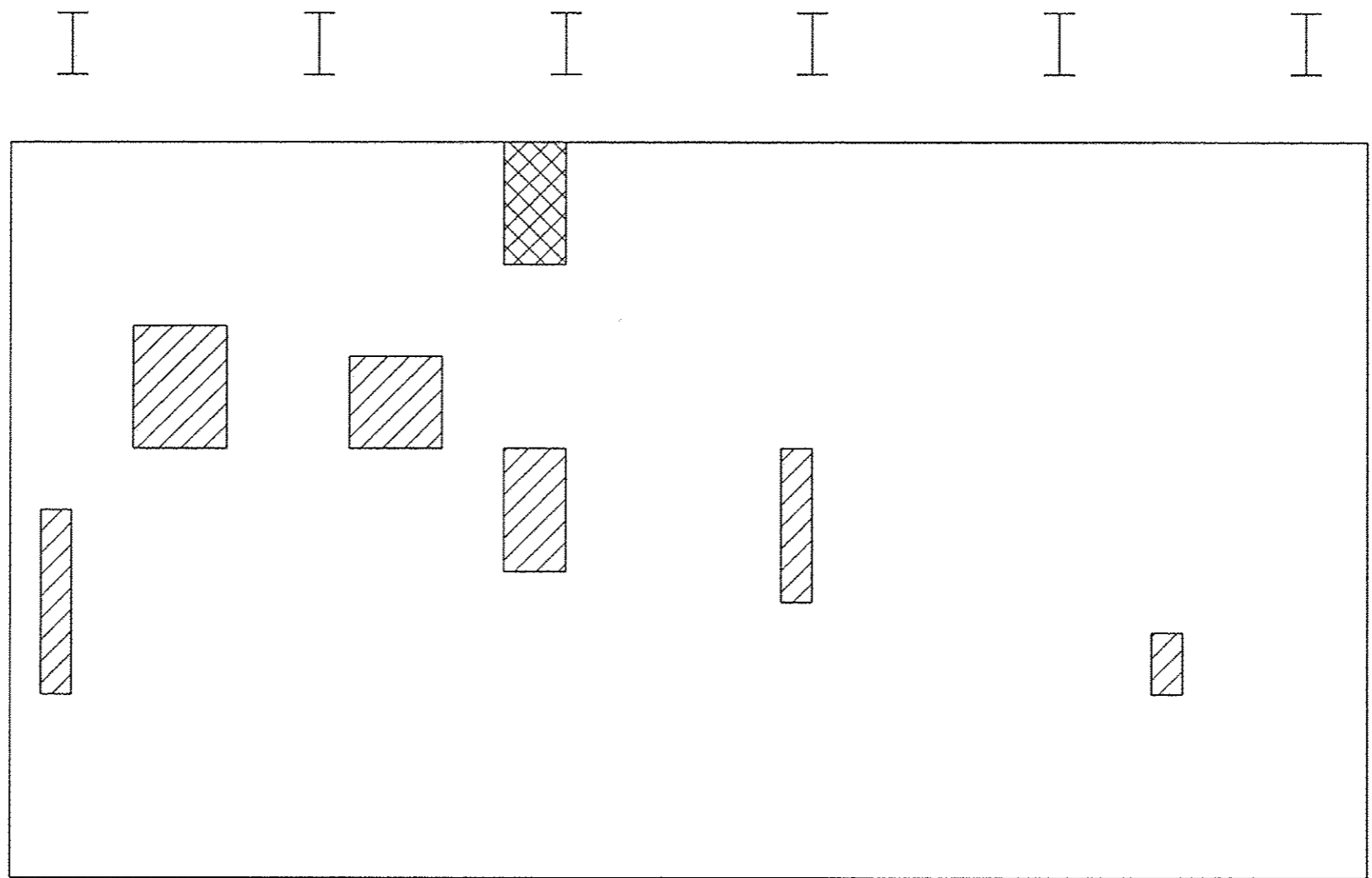
ITEM	QUANTITY
(*) STRUCTURAL REPAIR OF CONCRETE $\leq$ 5"	90.0 (SQ FT)
(*) STRUCTURAL REPAIR OF CONCRETE $>$ 5"	74.4 (SQ FT)

(\*) THIS IS AN ESTIMATED QUANTITY. THE ACTUAL LOCATION OF DELAMINATED AREAS AND QUANTITIES WILL BE DETERMINED BY THE RESIDENT ENGINEER IN THE FIELD.

- Ⓜ TEMPORARY SHORING AND CRIBBING
- DELAMINATED AREA  $>$  5"
- DELAMINATED AREA  $\leq$  5"

# SUBSTRUCTURE REPAIR DETAIL

## SN 098-0052 SOUTH ABUTMENT (LOOKING SOUTH)



SN 098-0052  
SOUTH ABUTMENT (LOOKING SOUTH)

ITEM	QUANTITY
(*) STRUCTURAL REPAIR OF CONCRETE =< 5"	41.5 (SQ FT)
(*) STRUCTURAL REPAIR OF CONCRETE > 5"	8.0 (SQ FT)

(\*) THIS IS AN ESTIMATED QUANTITY. THE ACTUAL LOCATION OF DELAMINATED AREAS AND QUANTITIES WILL BE DETERMINED BY THE RESIDENT ENGINEER IN THE FIELD.

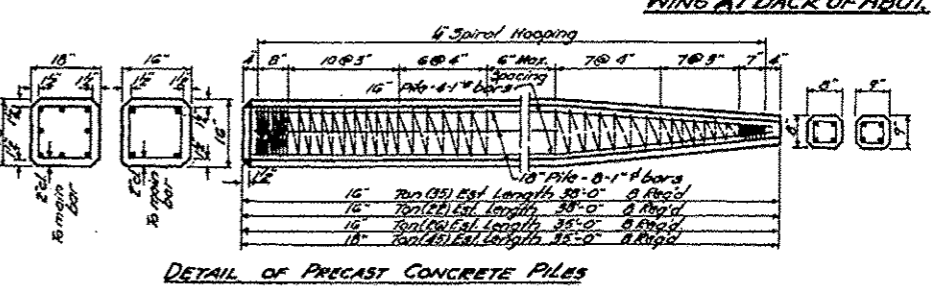
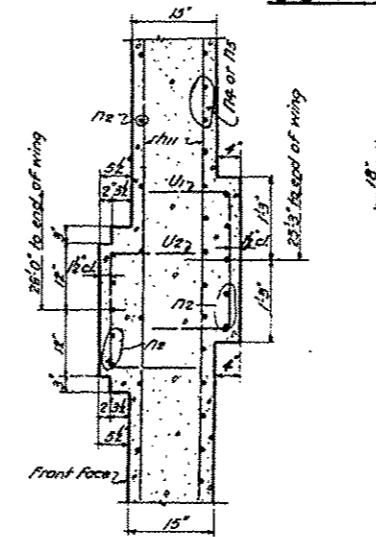
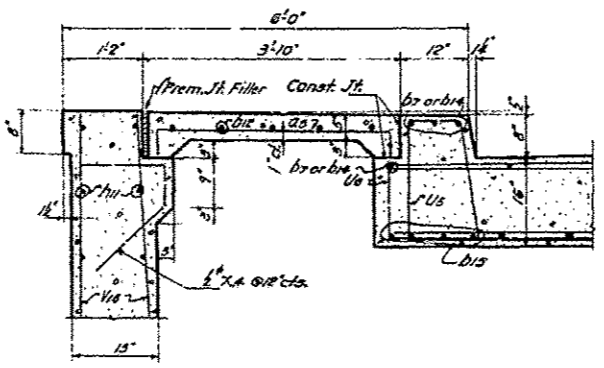
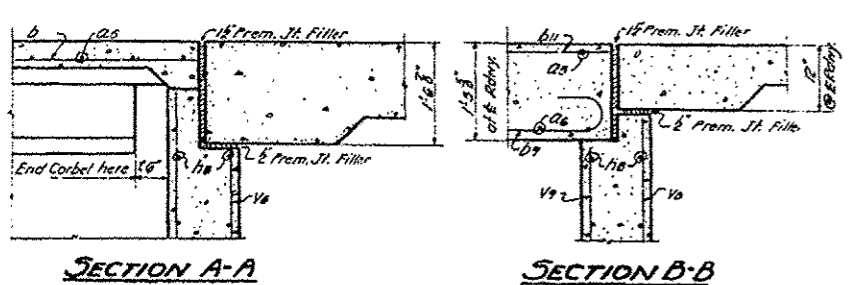
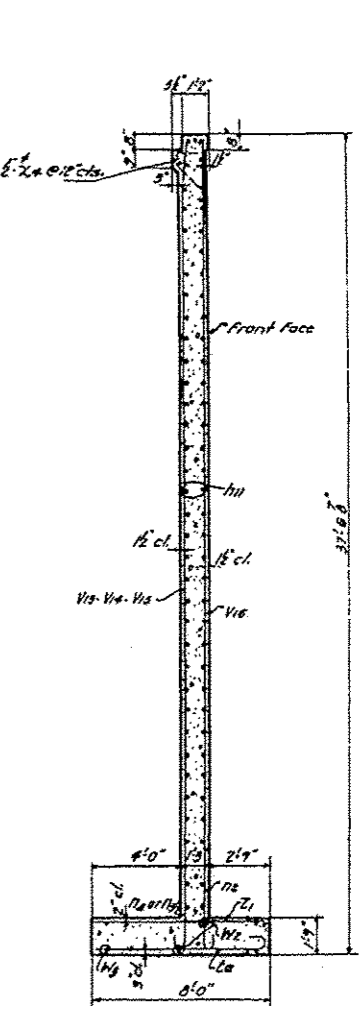
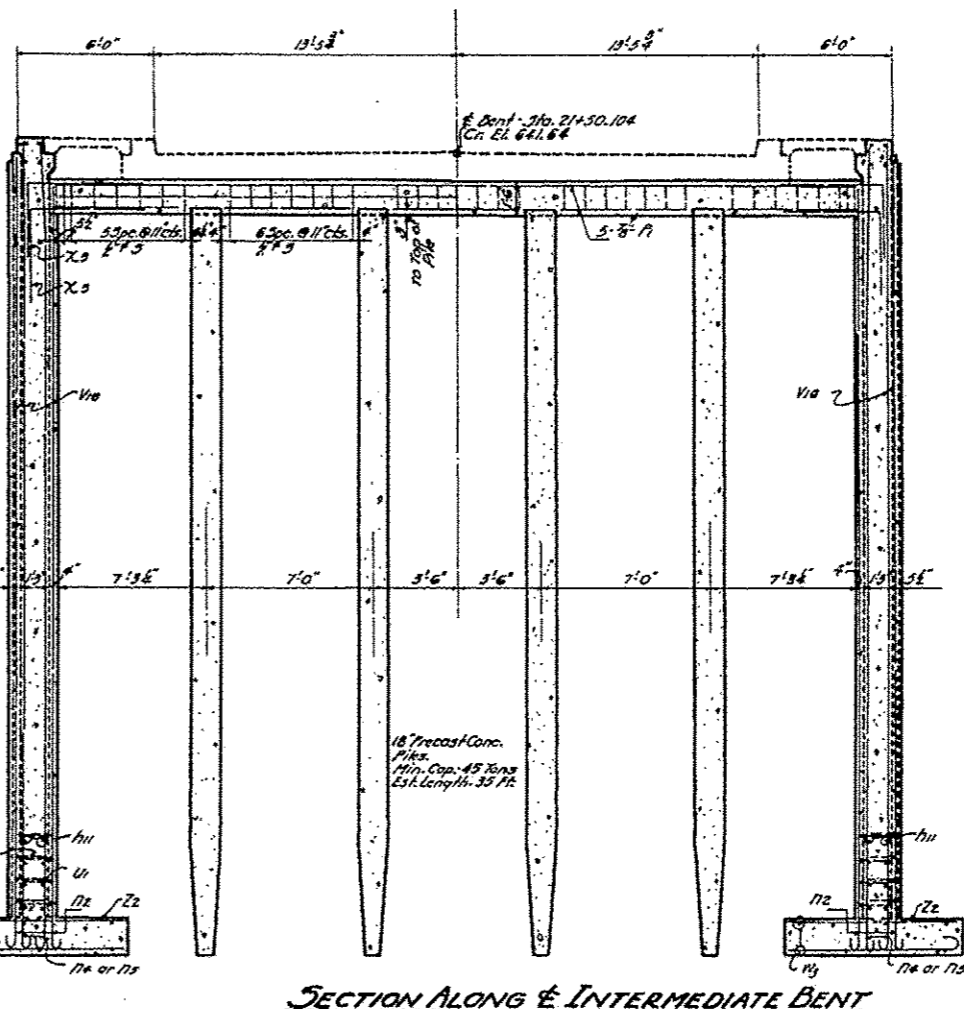
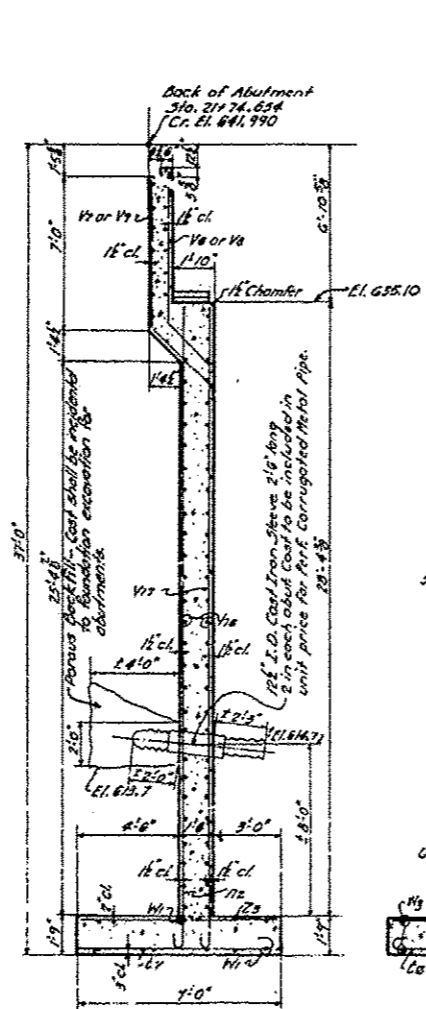
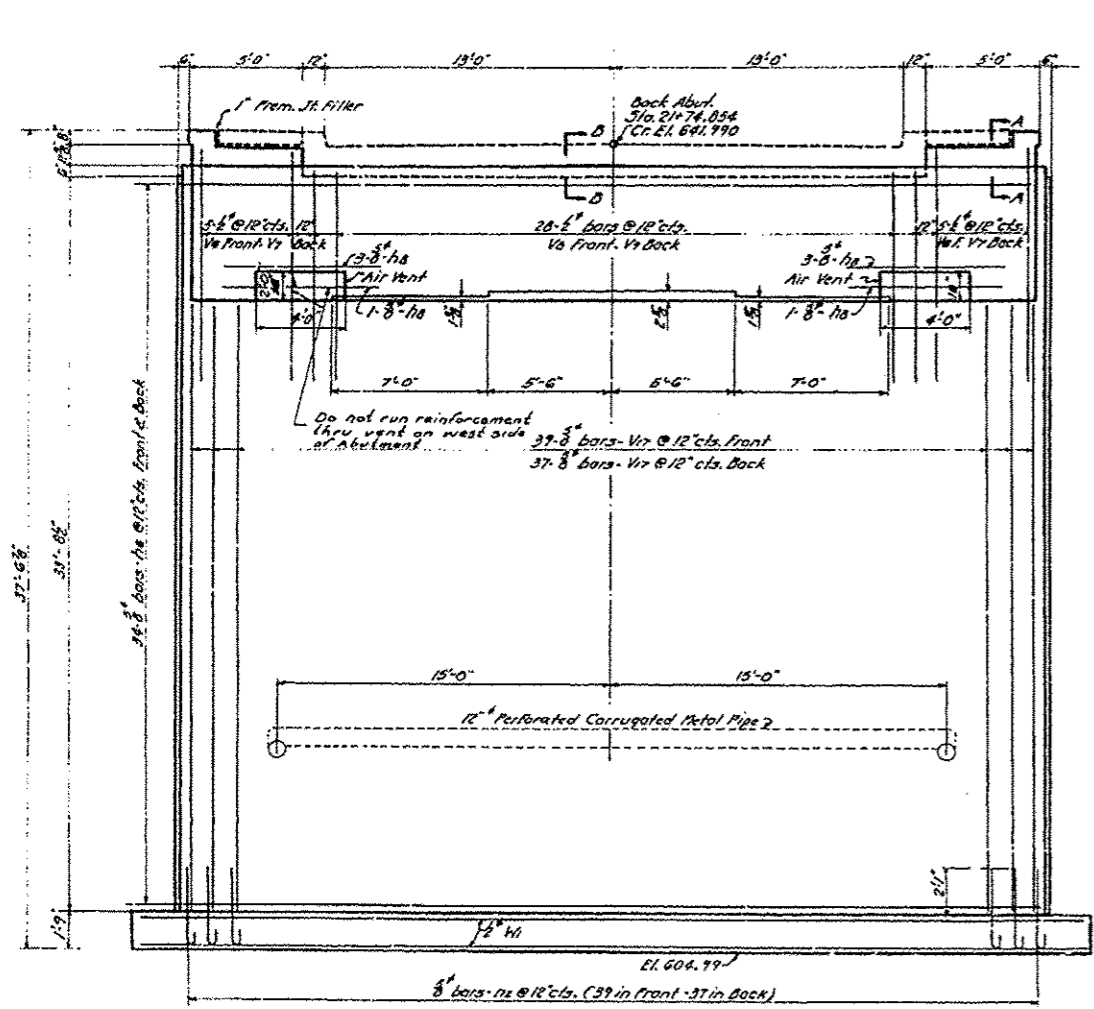
- ⓐ TEMPORARY SHORING AND CRIBBING
- DELAMINATED AREA > 5"
- DELAMINATED AREA =< 5"



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

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SENATE BILL NO. 417	WHITE SIDING	30	12
PER. ROAD DIST. NO. 7		PER. AID PROJECT	

SHEET NO. 10  
22 SHEETS



COMPUTED	C.R. Deane	EXAMINED	19
CHECKED	Harry P. Moore	PASSED	
DRAWN	G.R. G.	APPROVED	
CHECKED	H.P. G.		
SPECIAL ASSEMBLED			
CHECKED			

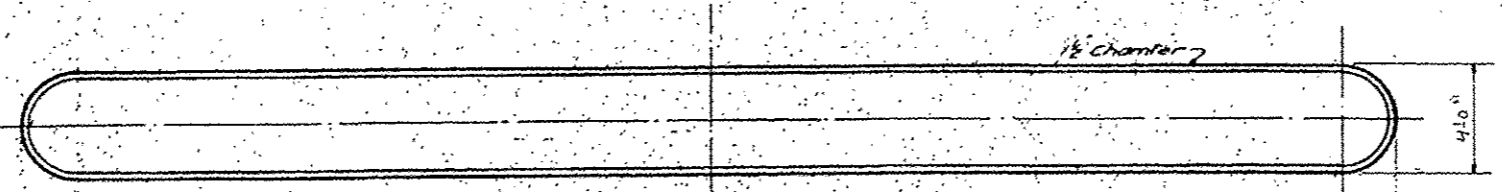
FOR INFORMATION ONLY  
 Added sheet 05/28/2014  
 SEC. B  
 ABUTMENT #1  
 SENATE BILL NO. 417  
 64TH GENERAL ASSEMBLY  
 AVENUE G - 12TH AVENUE  
 STERLING - ROCK FALLS  
 WHITESIDE COUNTY

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

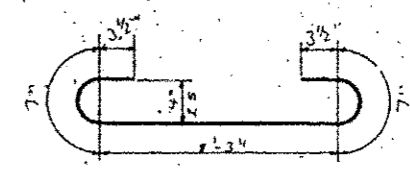
DESIGNED BY	CHECKED BY	DATE	PROJECT NO.	SHEET NO.

SHEET NO.  
SHEETS

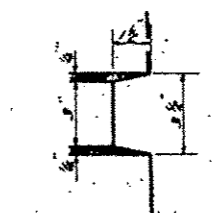
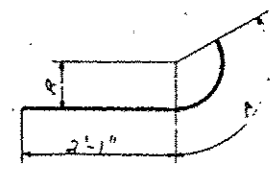
Pier #3 Sta. 24+78 C.R. 643.52



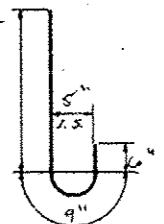
TOP PLAN



BAR-T



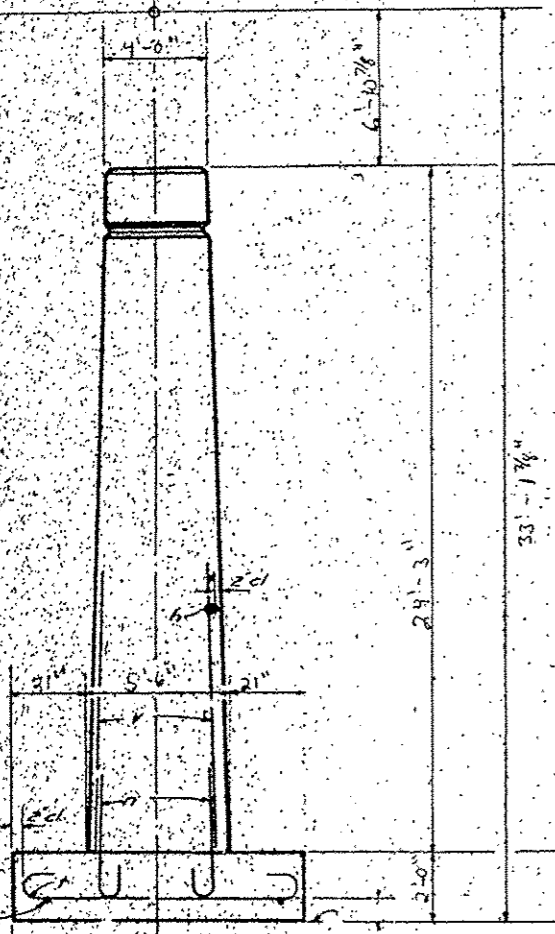
NOTCH DETAIL



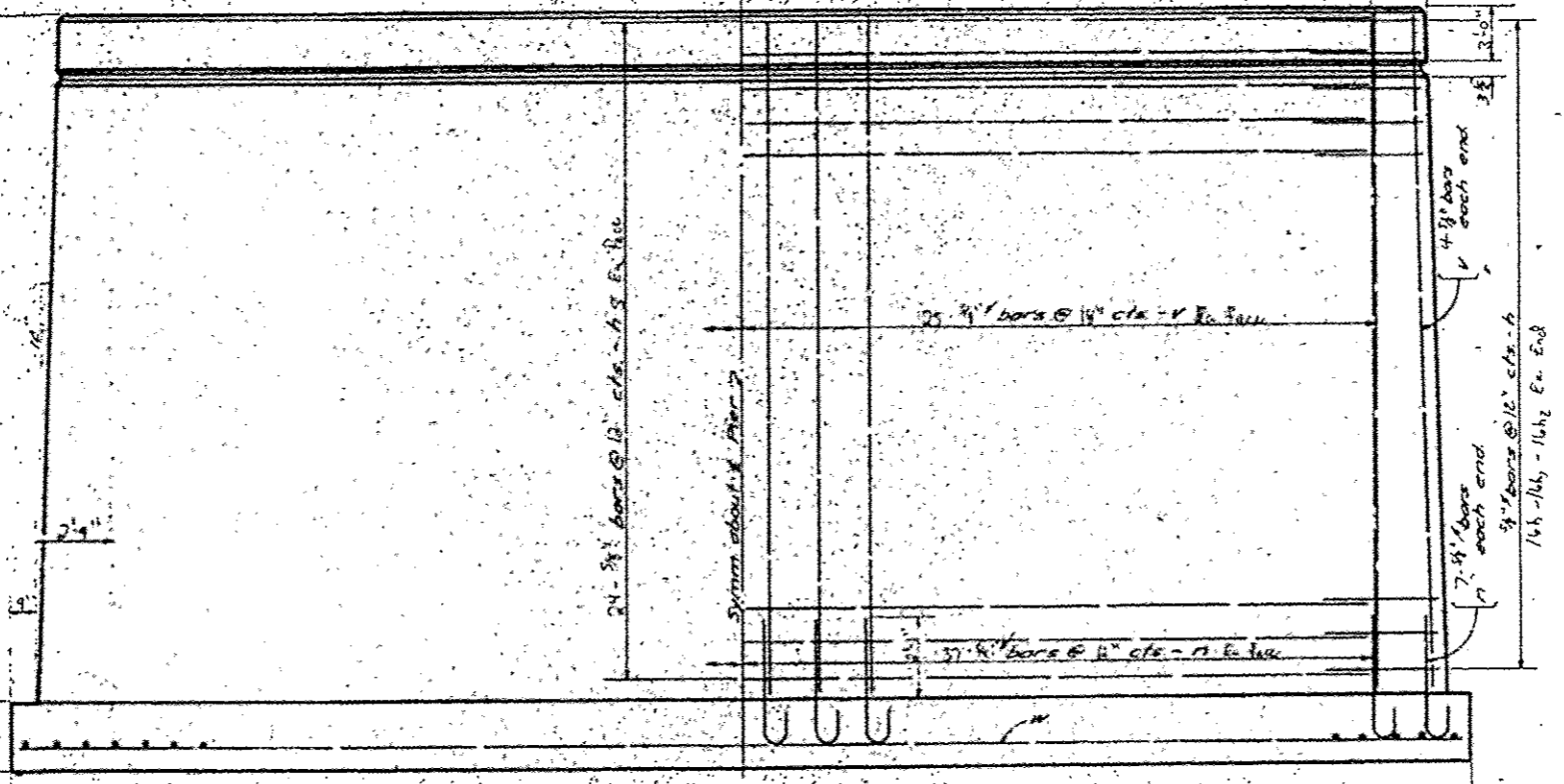
BAR-M

BAR	R	A
h		

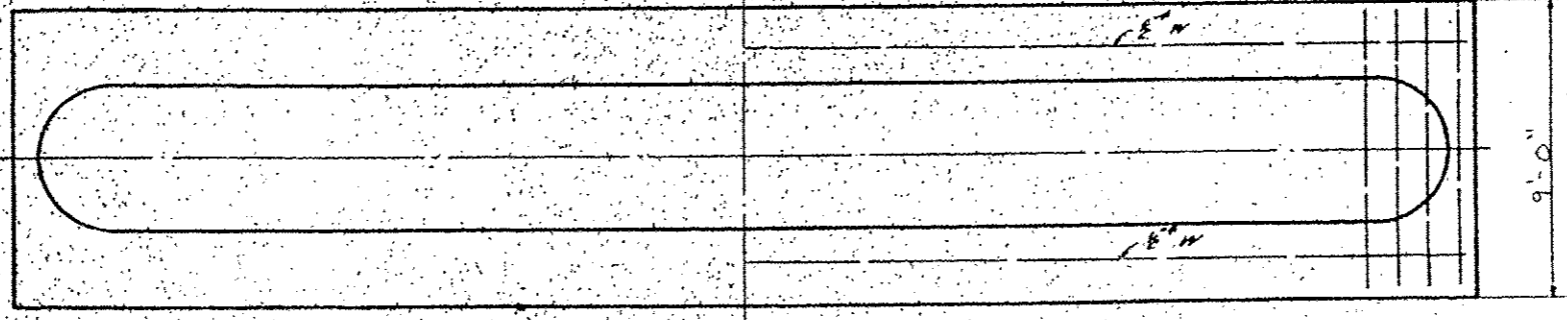
DETAIL OF BARS  
h - h - h



END VIEW



ELEVATION



FOOTING PLAN

BILL OF MATERIAL - PIER

BAR	NO.	SIZE	LENGTH	BAR	NO.	SIZE	LENGTH
v				h			
n							
t							
w							

Class A Concrete CU. yds.  
Reinforcement Bars Lbs.

Pier 3

FOR INFORMATION ONLY  
▲ Added sheet 05/28/2014  
DD

STANDARD	COMPUTED	EXAMINED	19
	CHECKED		
	DESIGNED	PASSED	
	CHECKED		
SPECIAL	APPROVED	APPROVED	
	CHECKED		