

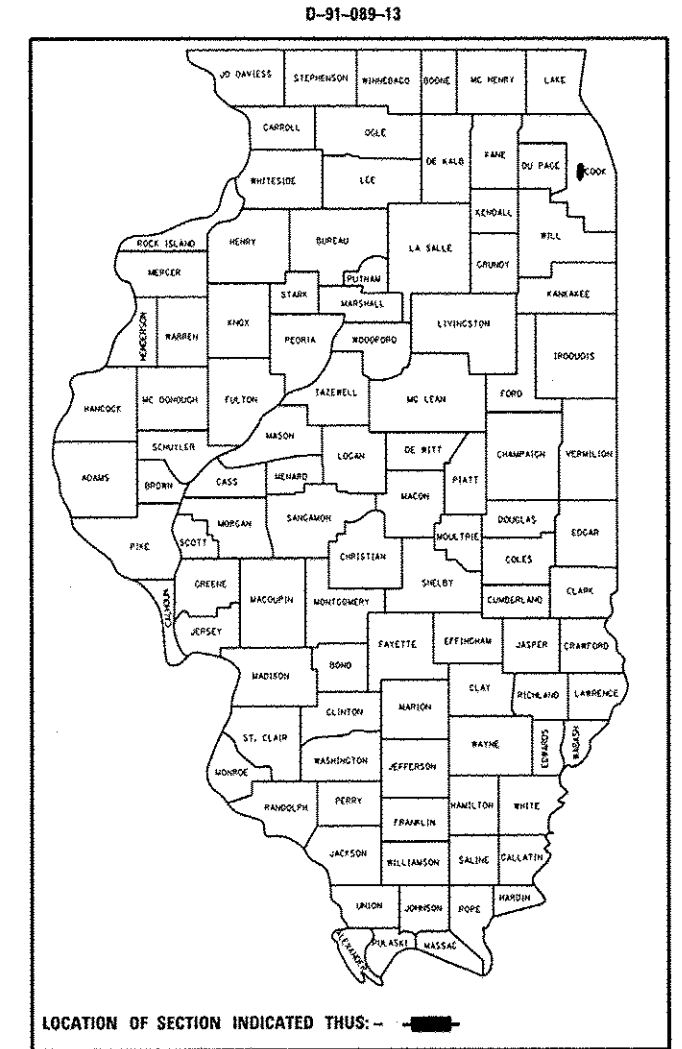
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

F.A.P. RTE. 348	SECTION 2012-078BP	COUNTY COOK	TOTAL SHEETS 36	SHEET NO. 1
ILLINOIS			CONTRACT NO. 60V87	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

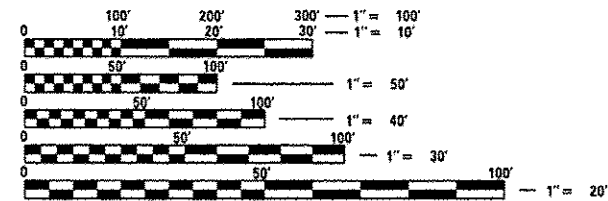
**PROPOSED  
HIGHWAY PLANS**

F.A.P. ROUTE 348 (IL ROUTE 43 /HARLEM AVE.)  
LOC 1) IL. 43 (NORTHBOUND) OVER SANITARY & SHIP CANAL (SN 016-0315)  
LOC 2) IL. 43 (SOUTHBOUND) OVER SANITARY & SHIP CANAL (SN 016-0991)  
SECTION: 2012-078BP  
BRIDGE PAINTING  
COOK



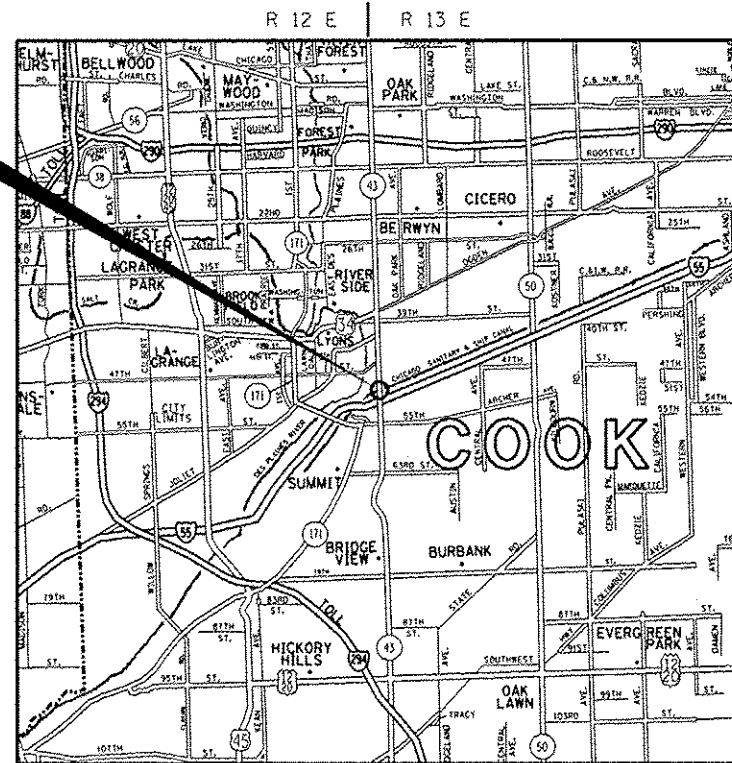
THE IMPROVEMENT IS LOCATED IN THE VILLAGE OF FOREST VIEW

**LOCATION OF IMPROVEMENT**  
IL 43 / HARLEM AVE (NORTHBOUND) OVER SANITARY & SHIP CANAL (SN 016-0315)  
IL 43 / HARLEM AVE (SOUTHBOUND) OVER SANITARY & SHIP CANAL (SN 016-0991)



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



**TRAFFIC DATA**  
2009 ADT = 38,000  
POSTED SPEED LIMIT = 40 MPH

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED November 7, 2012  
*John P. [Signature]*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Dec 7, 2012  
*John D. Baranzelli P.E.*  
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 7, 2012  
*William R. Frey*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PROJECT ENGINEER : ROBERT BORO (847) 705-4237  
PROJECT MANAGER : ISSAM RAYYAN  
CONTRACT NO. 60V87

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

## INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND GENERAL PAINT NOTES
3	SUMMARY OF QUANTITIES
4	LOCATION MAP
5 - 28	EXISTING BRIDGE PLANS (LOCATION NO. 1, SN 016-0315)
29 - 35	EXISTING BRIDGE PLANS (LOCATION NO. 2, SN 016-0991)
36	ARTERIAL ROAD INFORMATION SIGN (TC-22)

## HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
701601-08	URBAN LANE CLOSURE MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-03	TRAFFIC CONTROL DEVICES

## GENERAL NOTES

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF FOREST VIEW.

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.

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 WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.

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

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 FOR ARTERIALS A MINIMUM 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.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND PRESERVE THE EXISTING BRIDGE LIGHTING AT ANY LOCATIONS THAT LIGHTING IS ENCOUNTERED ADJACENT TO AN AREA TO BE CLEANED AND PAINTED.

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 CONTRACTOR SHALL CONTACT JEFF LANDERS AT (847) 956-1472 FOR ACCESS TO THE BRIDGE HOUSE.

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  
NINTH COAST GUARD DISTRICT  
1240 E. NINTH ST  
CLEVELAND, OH 44199-2060  
SCOTT STRIFFLER (216) 902-6085

## GENERAL PAINT NOTES

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

A MINIMUM OF ONE (1) AIR MONITOR WILL BE REQUIRED AT ALL LOCATIONS, TO MONITOR ABRASIVE BLASTING OPERATIONS. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUE."

THE AREAS DESIGNATED TO BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 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 SHALL BE GRAY, MUNSELL NO 5B 7/1.

EXISTING STEEL SHALL BE PAINTED AS SHOWN ON THE PLANS AND AREAS NOTED SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.

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.

FILE NAME *	USER NAME = pughat	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, STATE STANDARDS, GENERAL NOTES, AND GENERAL PAINT NOTES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
or\pwork\pwork\pughat\031999\018891	sheet-cover.dgn	DRAWN -	REVISED -			348	2012-078BP	COOK	36	2	
MODELNAME *	PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -			CONTRACT NO. 60V87					
	PLOT DATE = 11/9/2012	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



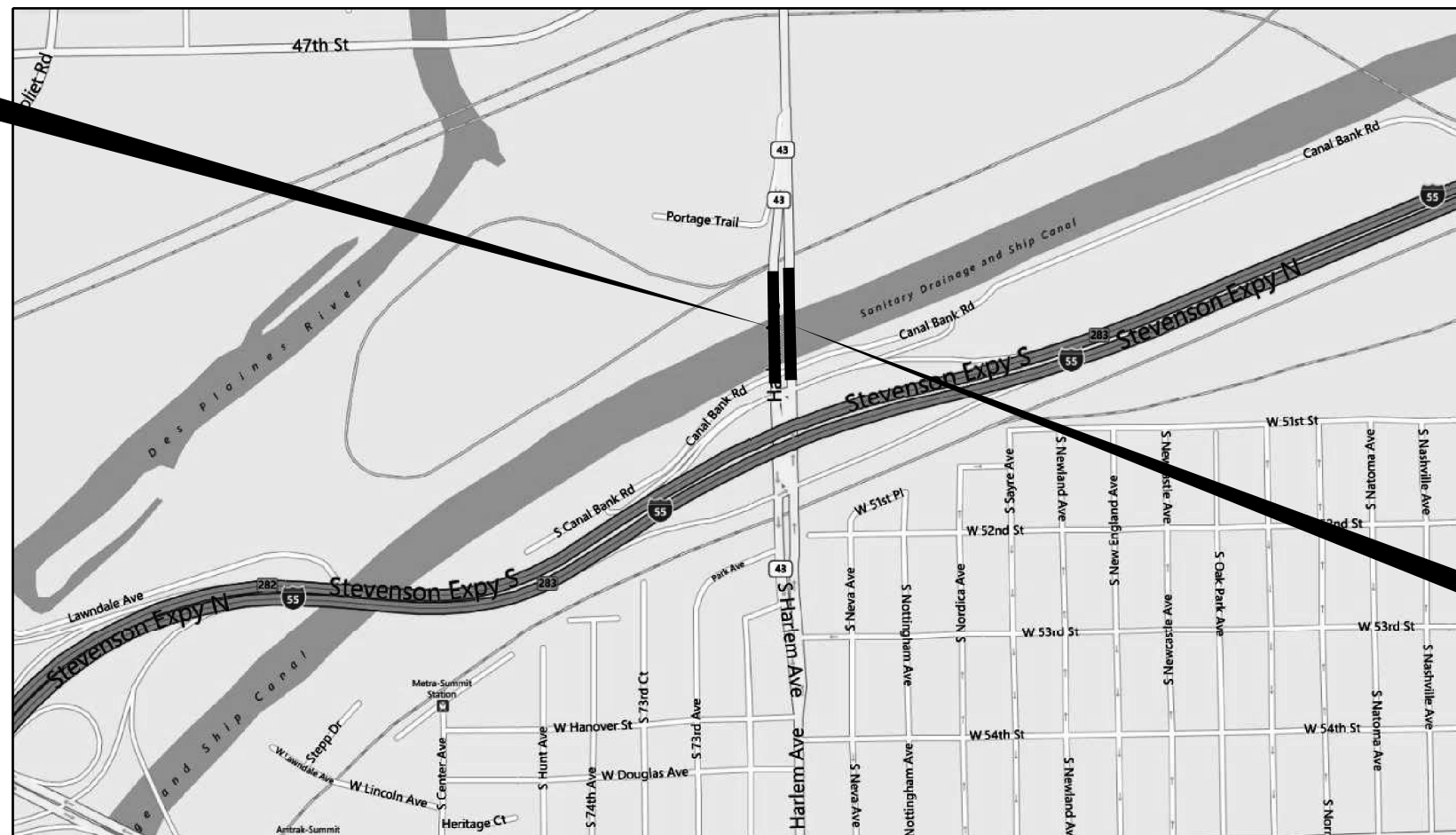
SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE 0014						SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	URBAN 100% STATE TOTAL QUANTITIES	016-0315 0014	016-0991 0014					CODE NO	ITEM	UNIT	TOTAL QUANTITIES						
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	2	2														
67100100	MOBILIZATION	L SUM	1	0.5	0.5														
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.5	0.5														
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.5	0.5														
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	0.5	0.5														
Z0007112	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1	0.5	0.5														
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1	0														
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1	0	1														
Z0030850	TEMPORARY INFORMATION SIGNING	50 FT	102.8	51.4	51.4														

**LOCATION 2**  
 IL 43 / HARLEM AVE  
 (SOUTHBOUND)  
 OVER  
 SANITARY & SHIP CANAL  
 (SN 016-0991)

R 12 E | R 13 E



T 38 N



**LOCATION 1**  
 IL 43 / HARLEM AVE  
 (NORTHBOUND)  
 OVER  
 SANITARY & SHIP CANAL  
 (SN 016-0315)

**STICKNEY TOWNSHIP**

**TRAFFIC DATA**

(IL 43)

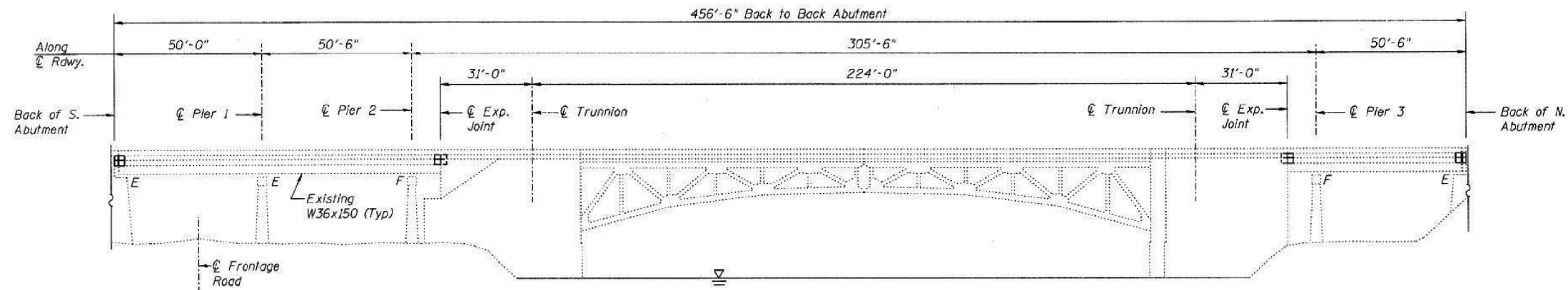
**2009 ADT = 38,000**

**POSTED SPEED LIMIT = 40 MPH**

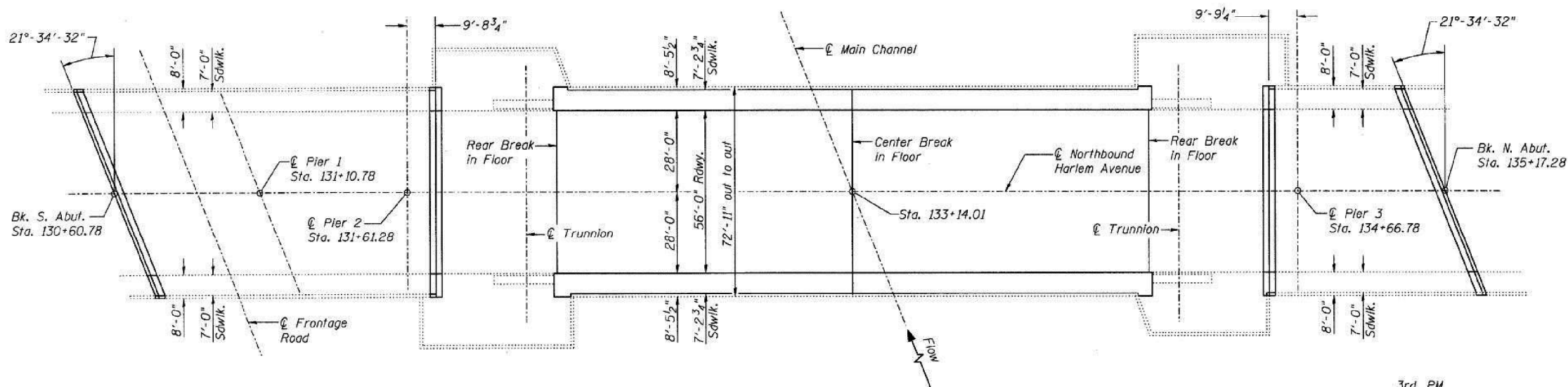
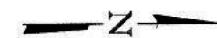
FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL RTE. 43 / HARLEM AVE. (OVER SANTARY &amp; SHIP CANAL) LOCATION MAP</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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\$MODELNAME\$	PLOT DATE = 11/9/2012	CHECKED -	REVISED -			<b>CONTRACT NO. 60V87</b>					
		DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Existing Structure: S.N. 016-0315 built in 1931 as F.A.P. 42, Section 207-0708.08-CF. Existing structure is a double leaf steel bascule bridge. In 1970, the superstructure of the approach spans was replaced with steel stringers and a reinforced concrete deck. In 1990, the timber deck of the bascule spans was replaced with a 5/16" welded steel grid deck, half-filled with concrete. The approach span decks were partially replaced and a 2" concrete overlay was placed. In 1999, the epoxy overlay on the bascule spans was removed and replaced with a 3/8" polymer concrete overlay. Approach spans have steel stringers and reinforced concrete deck. Bridge length is 456'-6" from back to back abutments. The abutments and piers are reinforced concrete. Piers consist of multiple columns with a continuous cap beam. The abutments are counterfort type. Stage Construction shall be utilized to maintain traffic during construction.



ELEVATION



PLAN

DESIGN STRESSES  
FIELD UNITS

New Construction

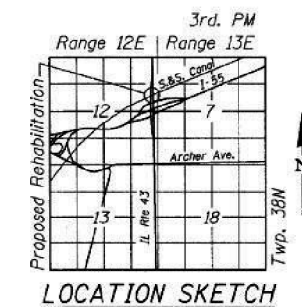
$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 36,000$  psi (Structural Steel) (M270 Gr. 36)

DESIGN SPECIFICATIONS

(New Construction)  
2002 AASHTO "Standard  
Specifications for Highway Bridges", 17th Edition

LOADING HS 20-44

(Original Construction)

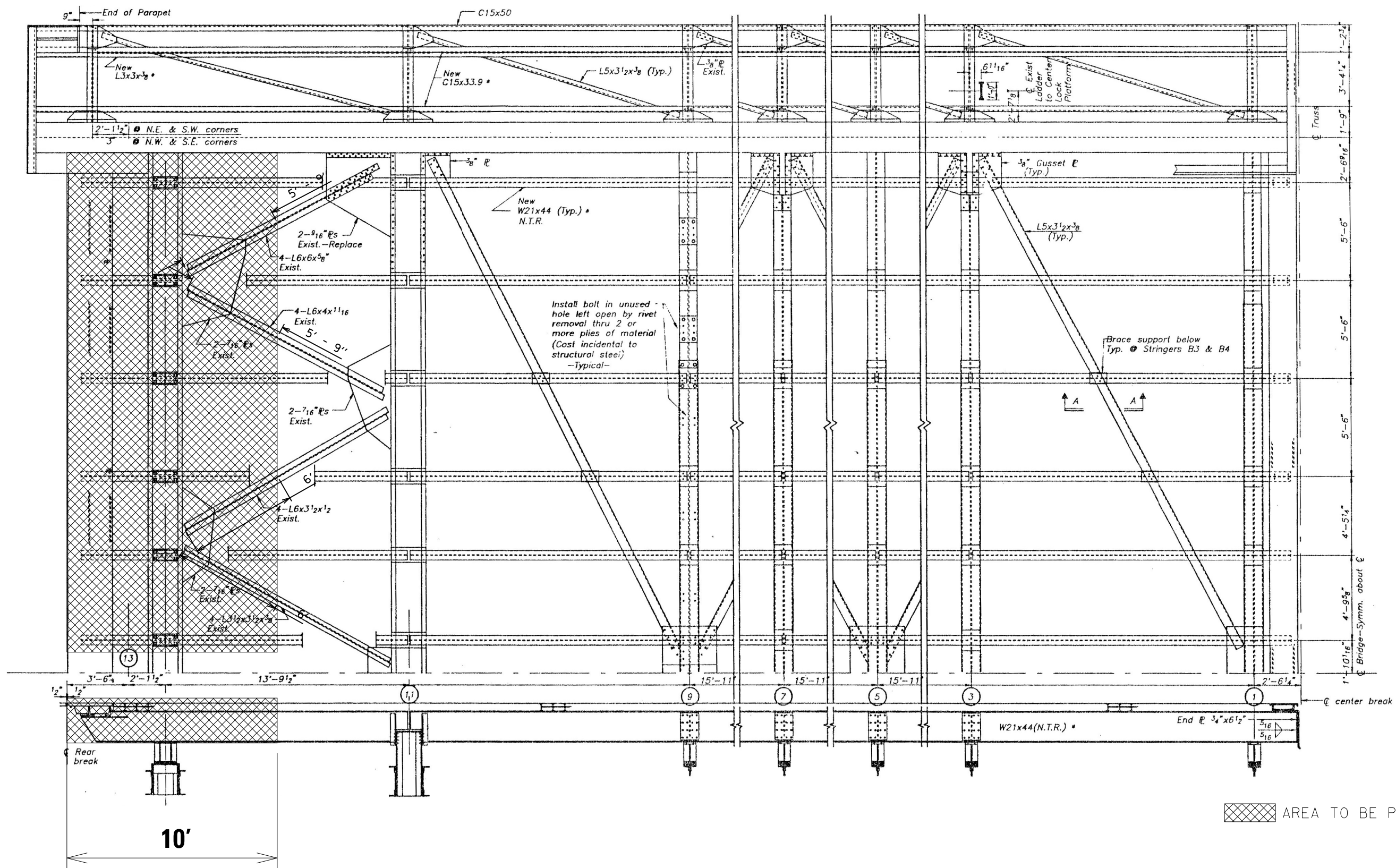


LOCATION SKETCH

FOR INFORMATION ONLY

FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL RTE. 43 / HARLEM AVE. (OVER SANTARY &amp; SHIP CANAL) LOCATION 1: SN 016-0315 EXISTING BRIDGE PLAN</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 11/9/2012		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
#MODELNAME#				SCALE:	SHEET 1 OF 25 SHEETS	STA.	TO STA.			

# NORTH & SOUTH ENDS OF BRIDGE DECK



AREA TO BE PAINTED

FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -
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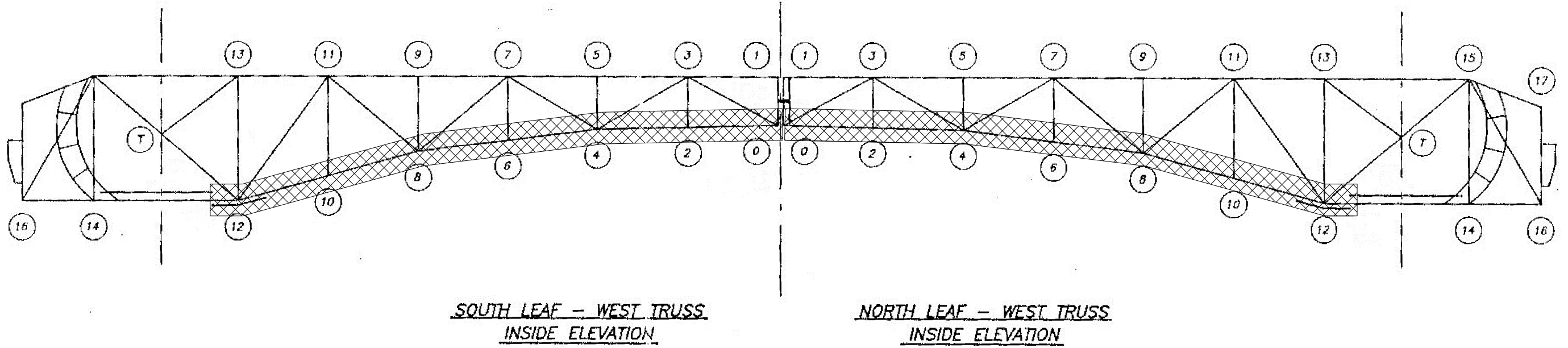
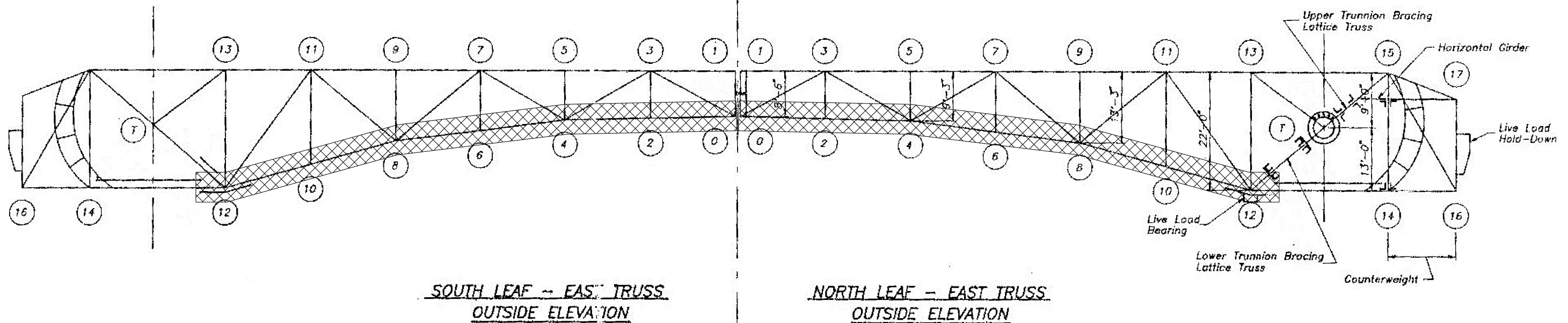
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

IL RTE. 43 / HARLEM AVE. (OVER SANTARY & SHIP CANAL)  
LOCATION 1: SN 016-0315  
EXISTING BRIDGE PLAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	2012-078BP	COOK	36	6
CONTRACT NO. 60V87				

SCALE: SHEET 2 OF 25 SHEETS STA. TO STA.

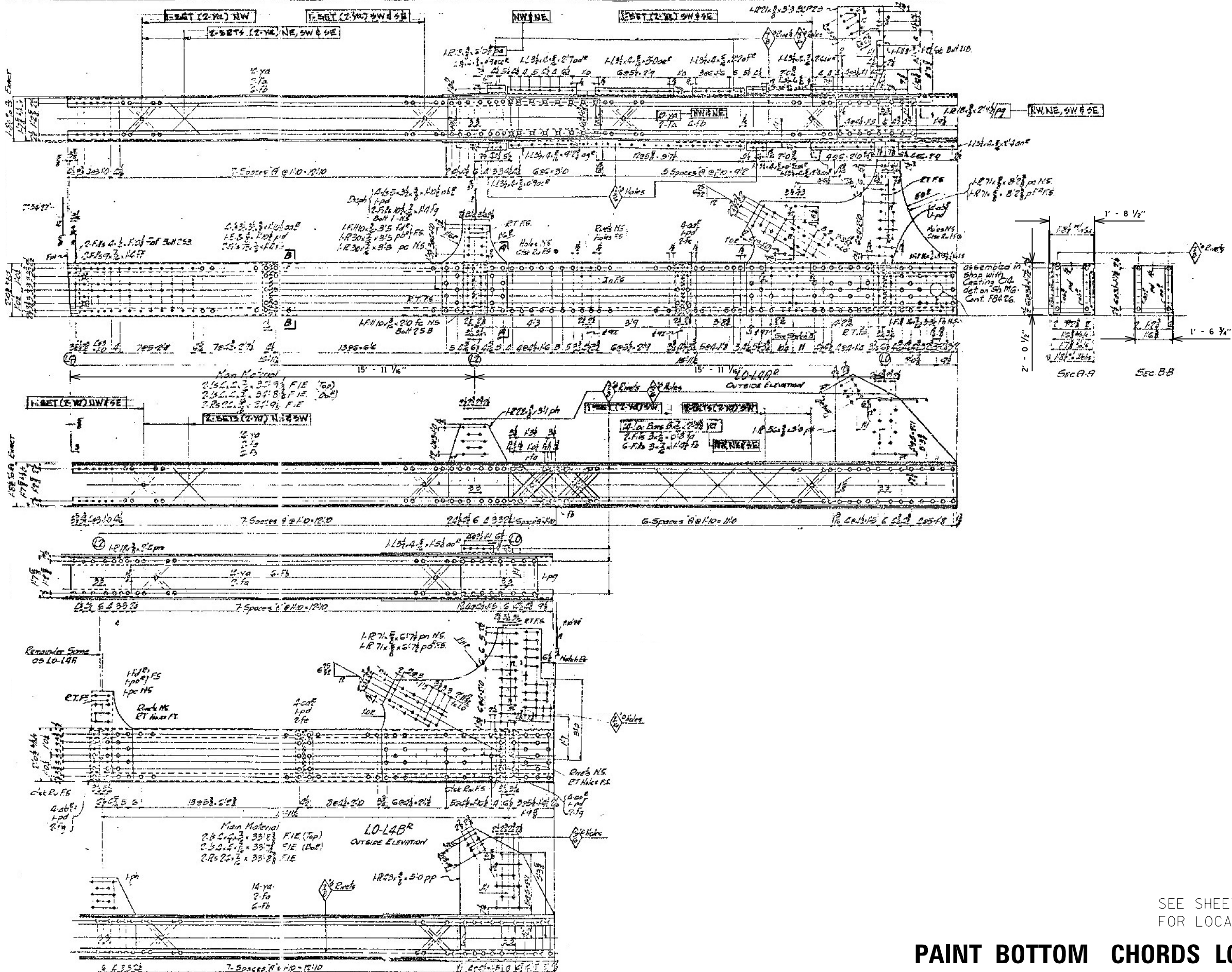
ILLINOIS FED. AID PROJECT



AREA TO BE PAINTED

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#MODELNAME#		DATE -	REVISED -			CONTRACT NO. 60VB7					





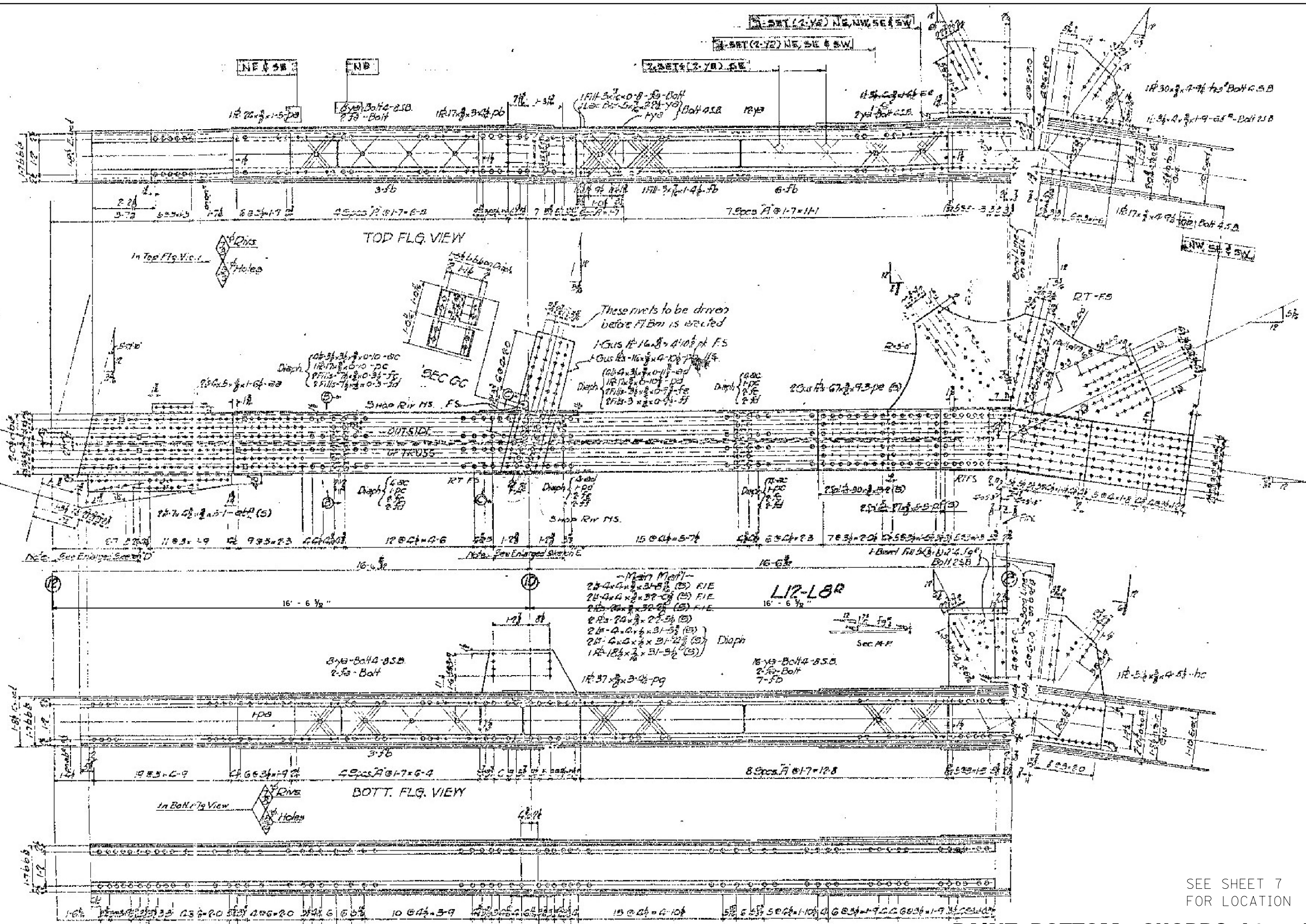
SEE SHEET 7  
FOR LOCATION

# PAINT BOTTOM CHORDS L0 - L4

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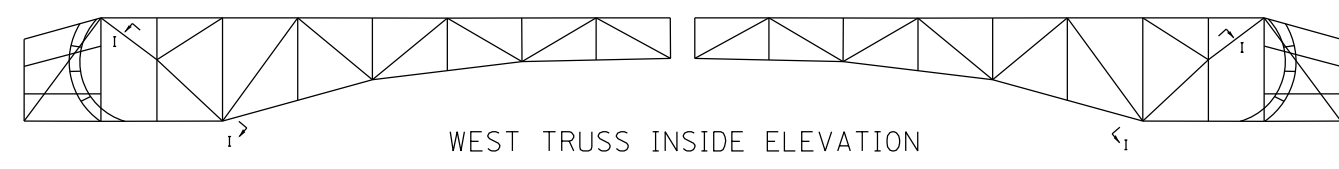
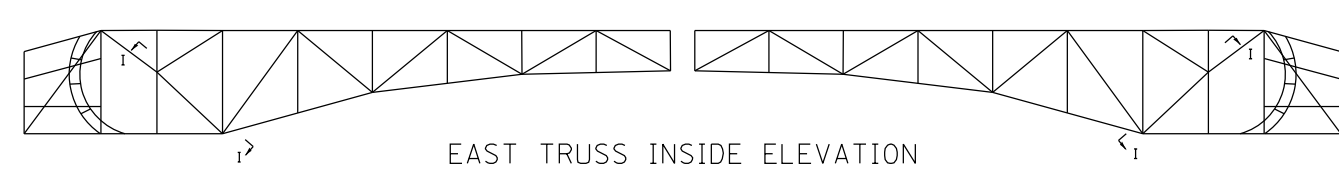
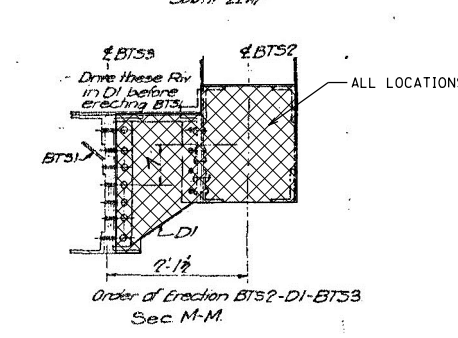
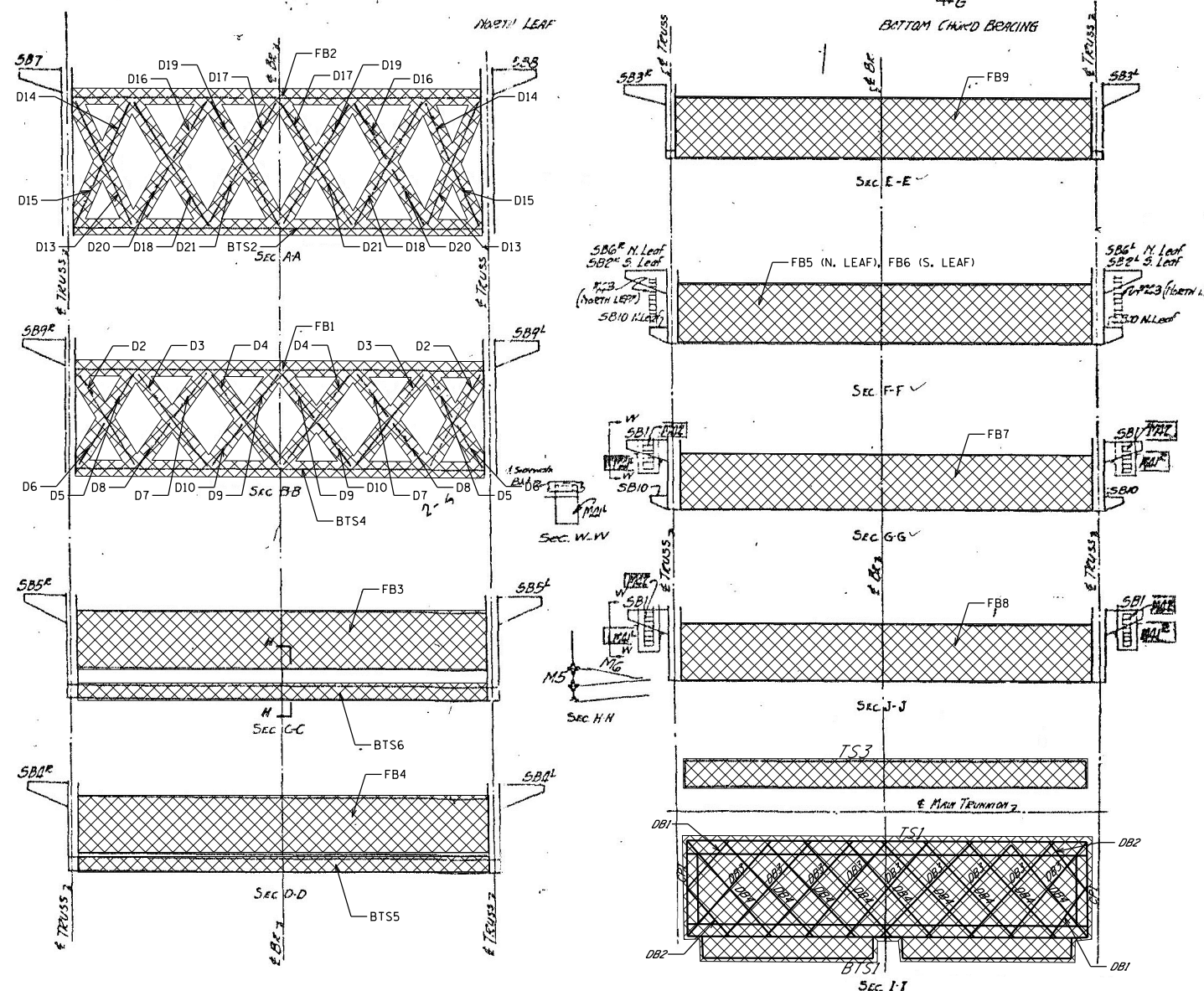
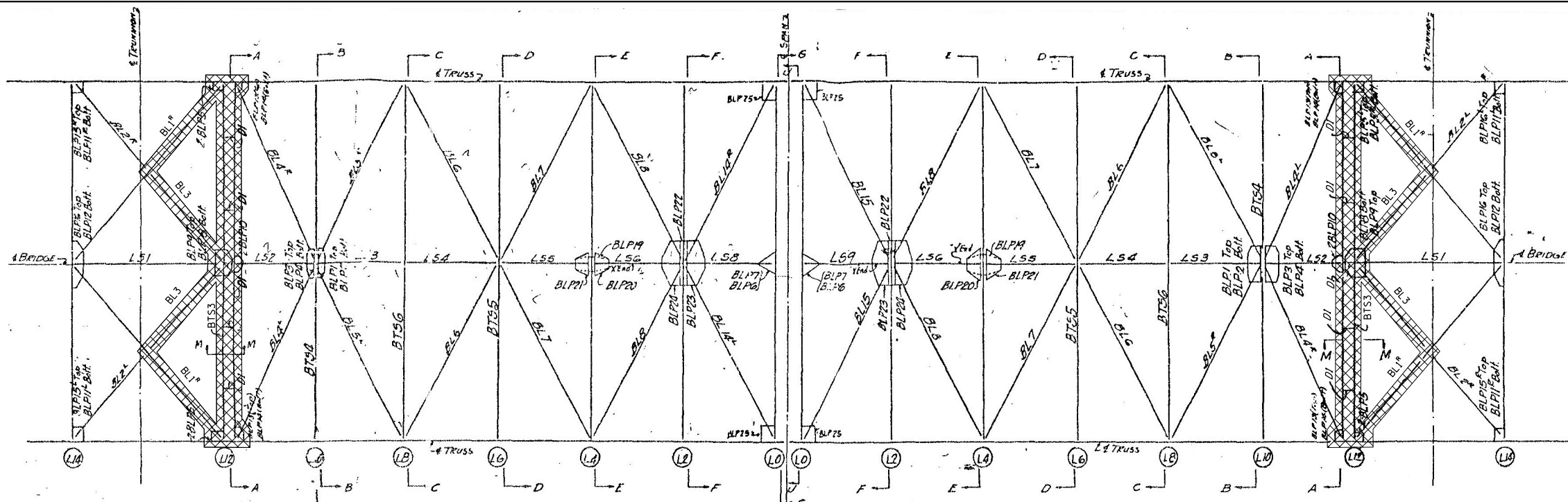




SEE SHEET 7  
FOR LOCATION

## PAINT BOTTOM CHORDS L8 - L12

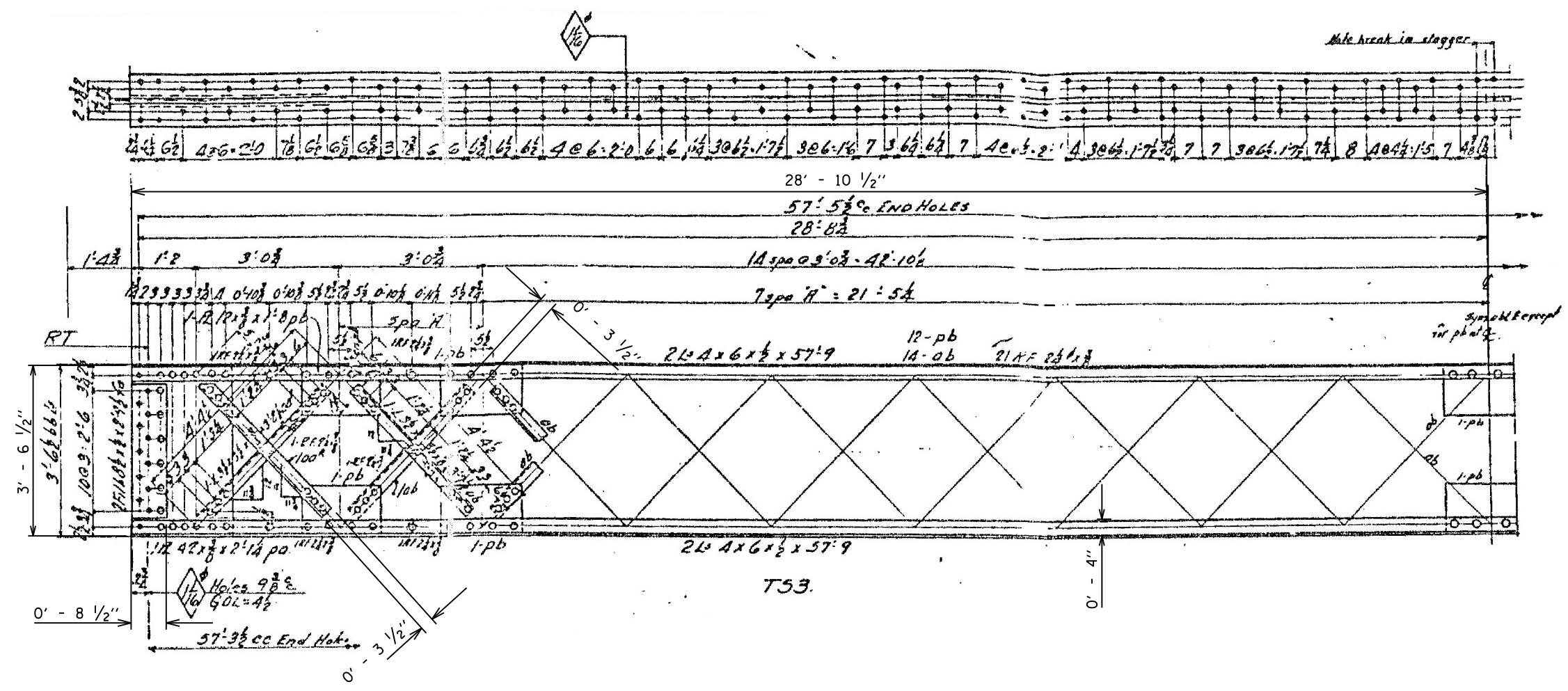
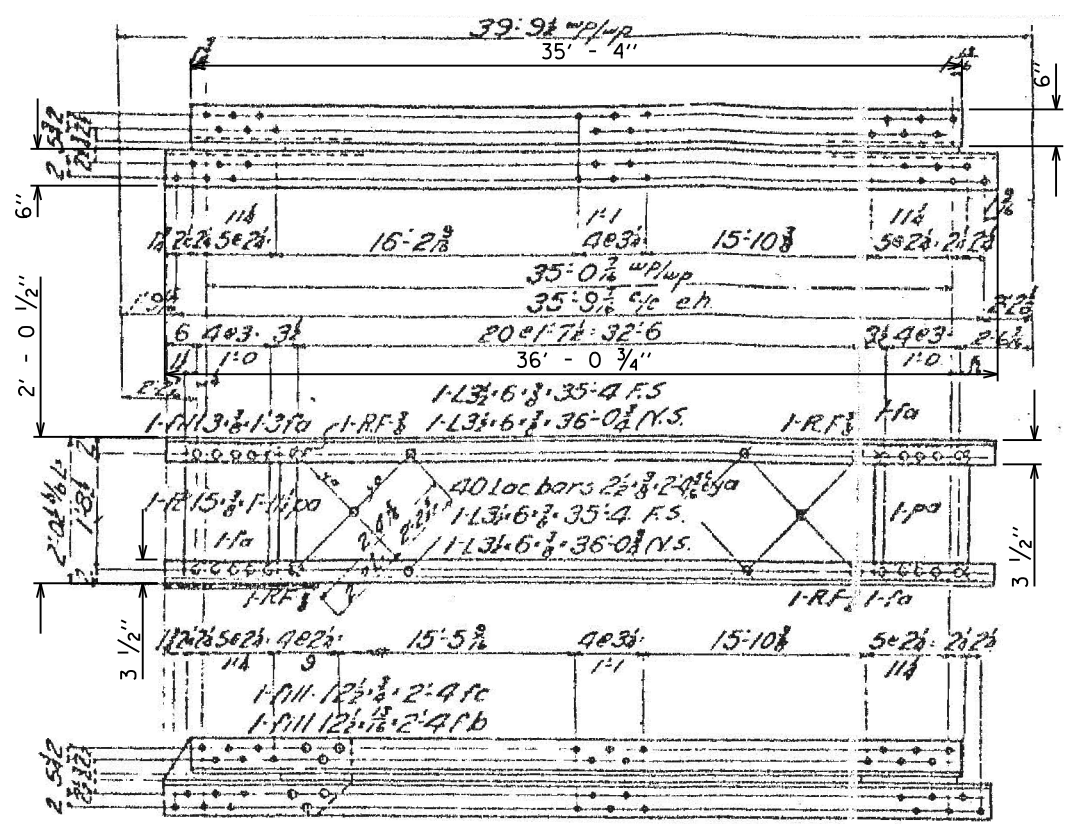
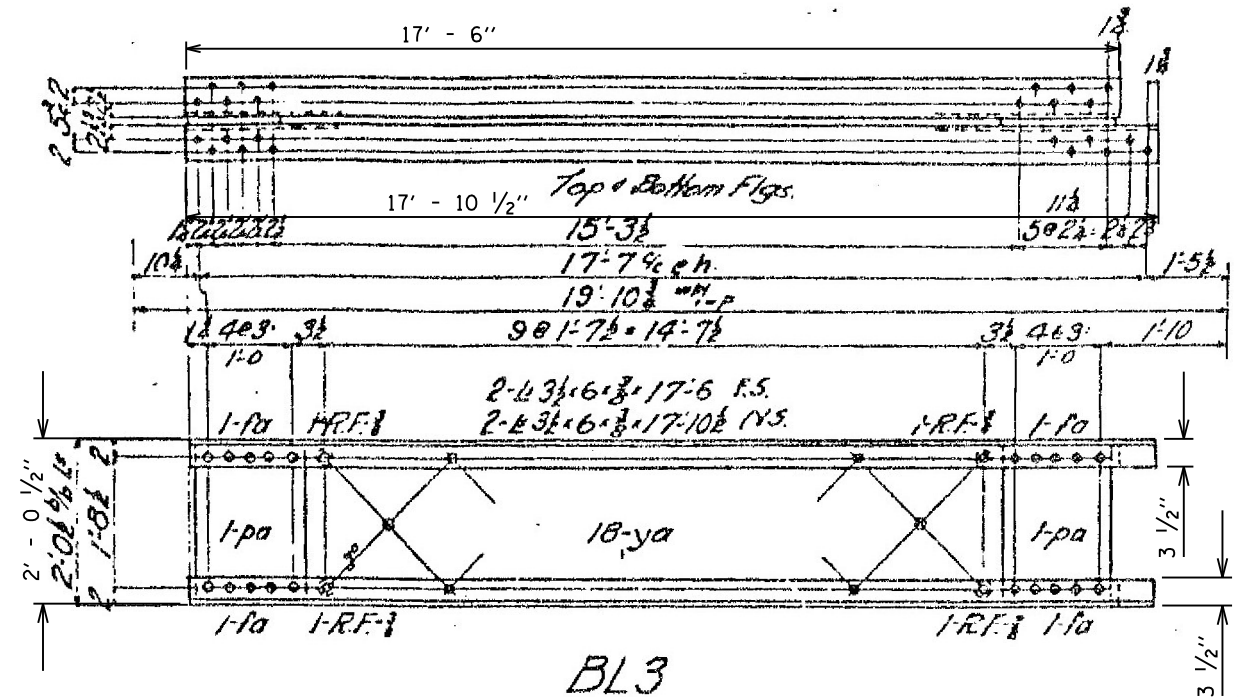
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		IL RTE. 43 / HARLEM AVE. (OVER SANTARY & SHIP CANAL) LOCATION 1: SN 016-0315 EXISTING BRIDGE PLAN		
#MODELNAME#	PLOT DATE = 11/9/2012	DATE -	REVISED -		SCALE:	SHEET 6 OF 25 SHEETS	STA. TO STA.
							F.A.P. R.T.E. SECTION COUNTY TOTAL SHEETS SHEET NO. 348 2012-078BP COOK 36 10 CONTRACT NO. 60V87 ILLINOIS FED. AID PROJECT



AREA TO BE PAINTED

FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL RTE. 43 / HARLEM AVE. (OVER SANTARY &amp; SHIP CANAL) LOCATION 1: SN 016-0315 EXISTING BRIDGE PLAN</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE -	REVISED -			SCALE:	SHEET 8 OF 25 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

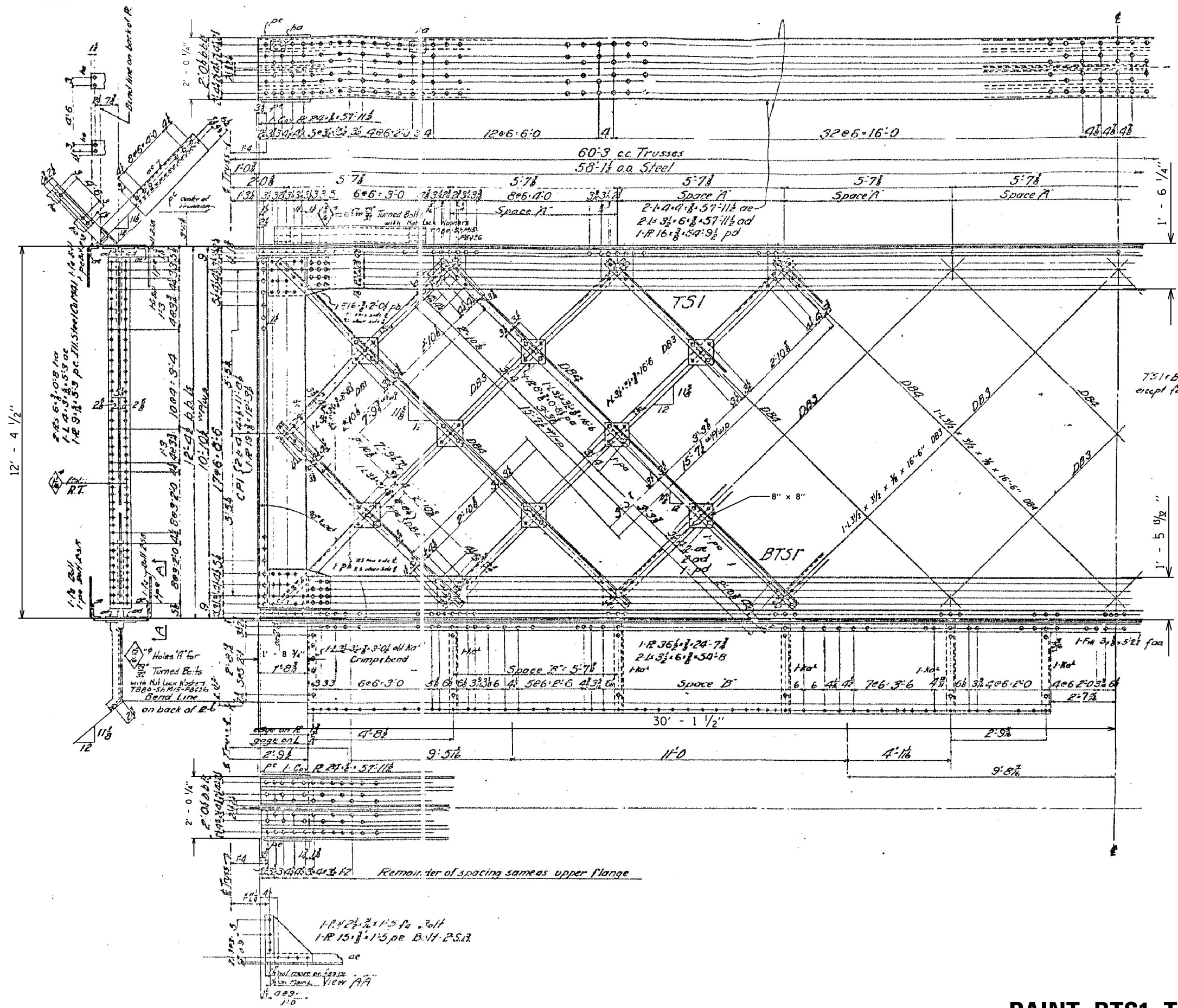




SEE SHEET 11  
FOR LOCATION

### PAINT BL1<sup>R</sup>, BL3 & TS3

FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL RTE. 43 / HARLEM AVE. (OVER SANTARY &amp; SHIP CANAL)</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2:\pwr_work\pwr\dot\pughst\dot\0319399\10188913-sht-plan.dgn		DRAWN -	REVISED -		LOCATION 1: SN 016-0315				348	2012-078BP	COOK	36	12
PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -		EXISTING BRIDGE PLAN				CONTRACT NO. 60V87				
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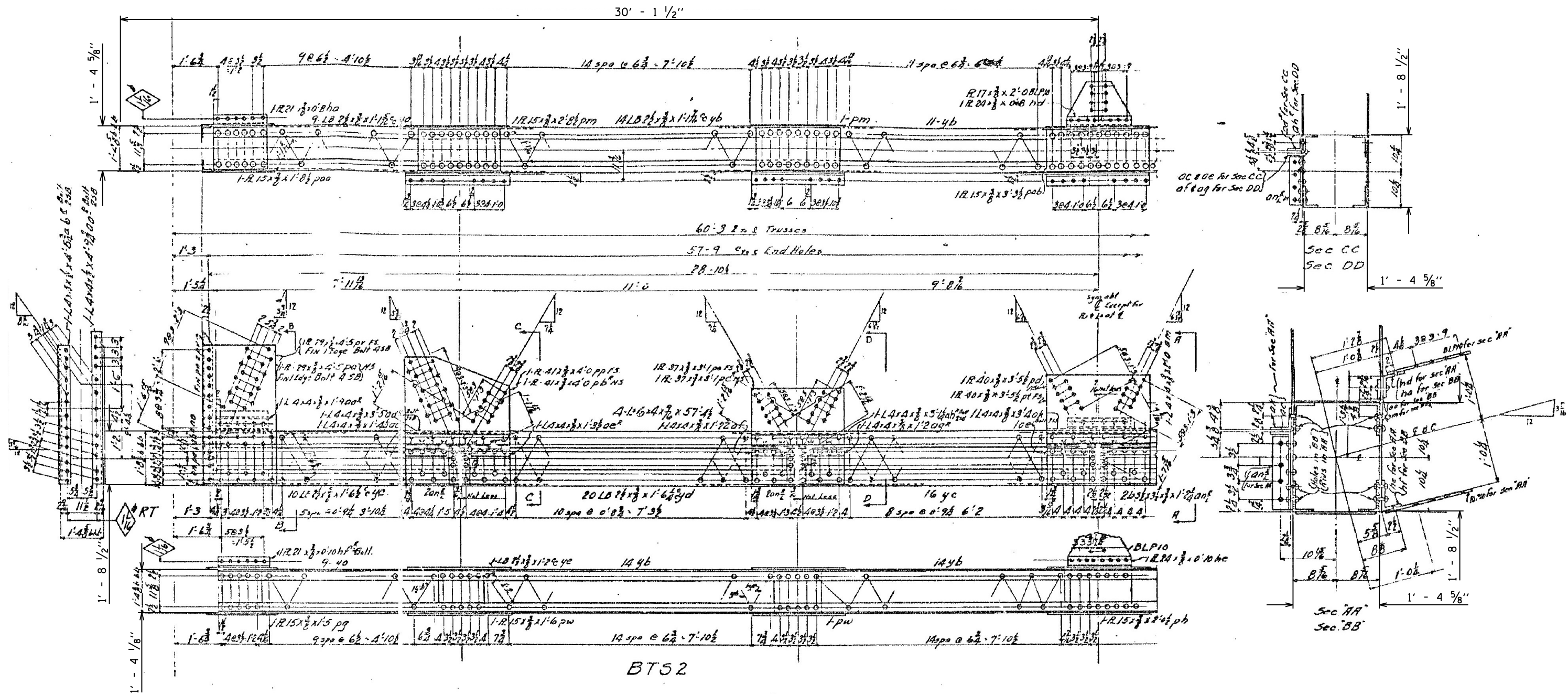


TS1 & BTS1 sym abt E  
except for R pb.

SEE SHEET 11  
FOR LOCATION

**PAINT BTS1, TS1, CP1 & DB1-DB4**

FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL RTE. 43 / HARLEM AVE. (OVER SANTARY &amp; SHIP CANAL)</b> <b>LOCATION 1: SN 016-0315</b> <b>EXISTING BRIDGE PLAN</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw\work\p1dot\pughst\02319399\010891	sht-plan.dgn	DRAWN -	REVISED -			348	2012-078BP	COOK	36	13	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	SCALE:			SHEET 10 OF 25 SHEETS STA. TO STA.		CONTRACT NO. 60VB7			
DATE = 11/9/2012	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								

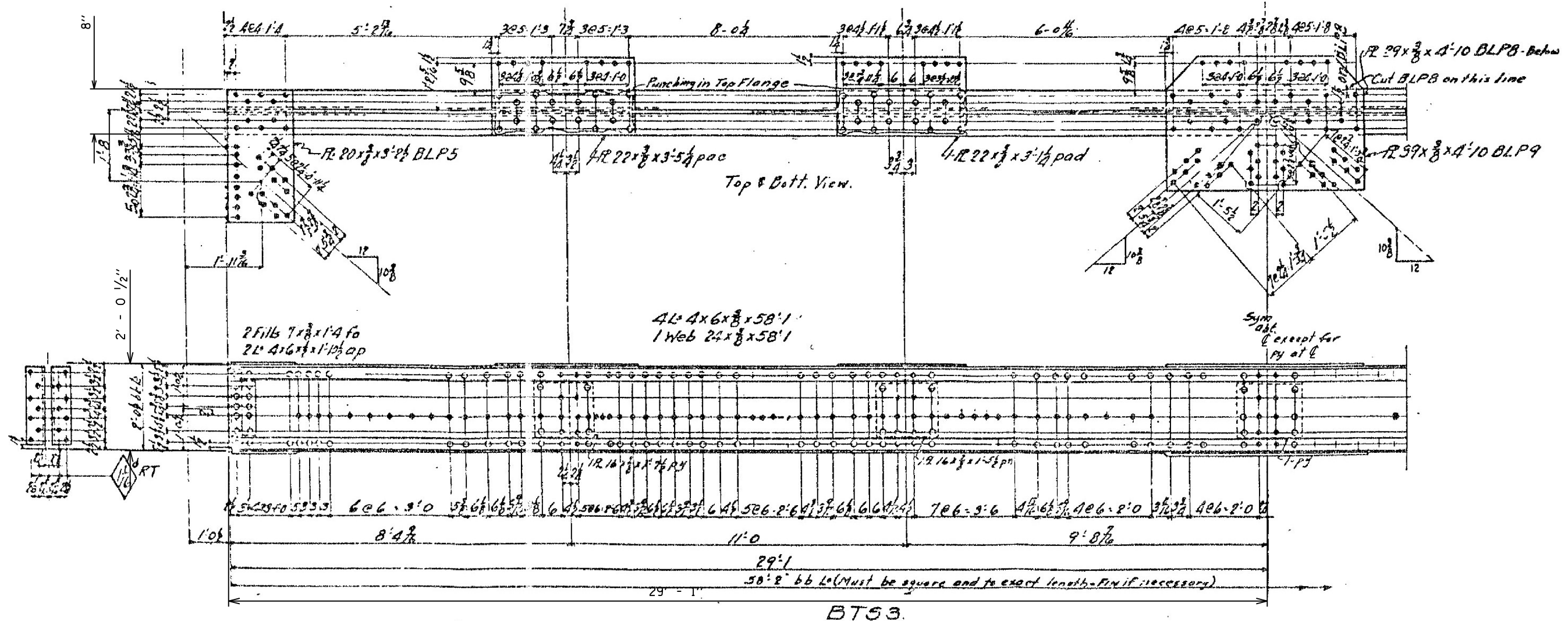


SEE SHEET 11  
FOR LOCATION

### PAINT BTS2

FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL RTE. 43 / HARLEM AVE. (OVER SANTARY &amp; SHIP CANAL)</b> LOCATION 1: SN 016-0315 EXISTING BRIDGE PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

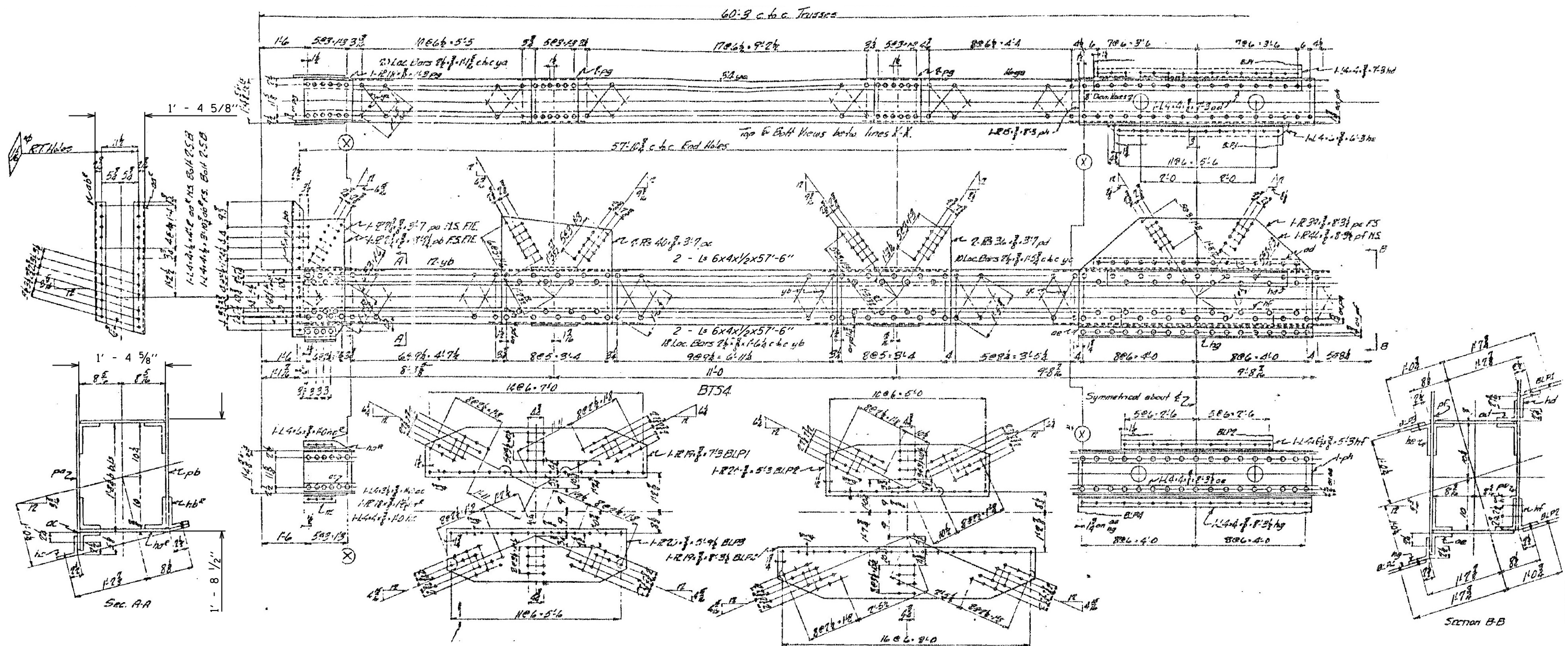




SEE SHEET 11  
FOR LOCATION

**PAINT BT93**

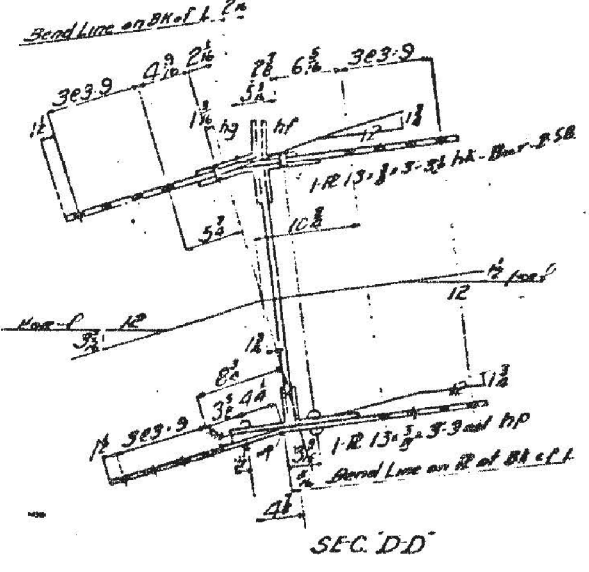
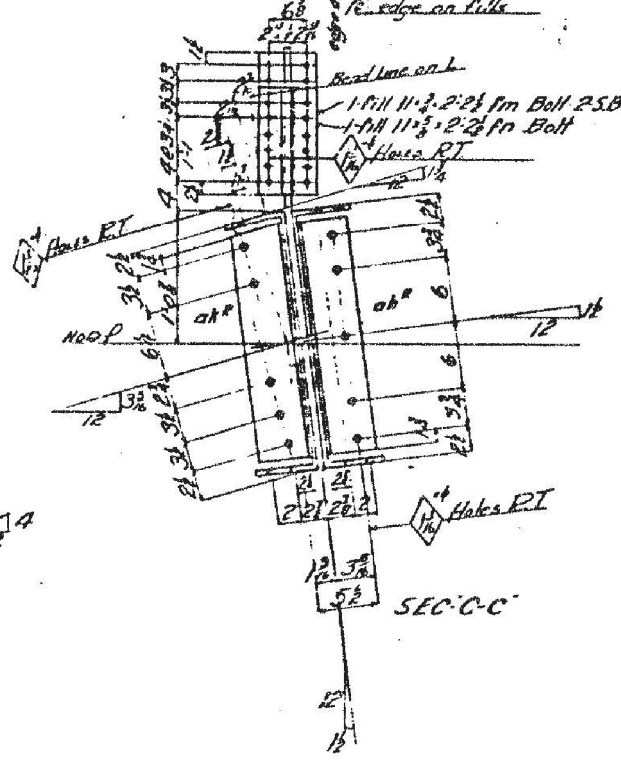
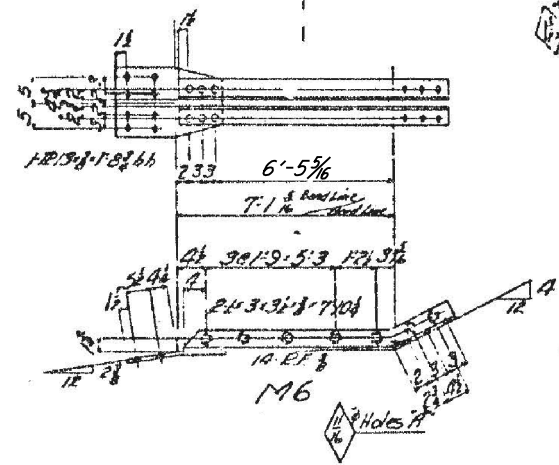
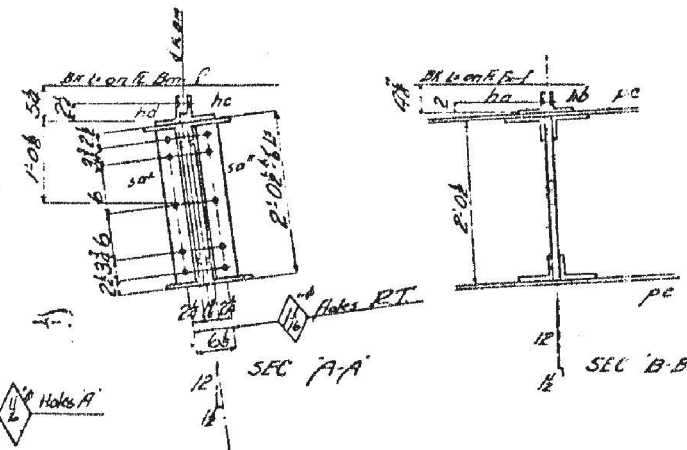
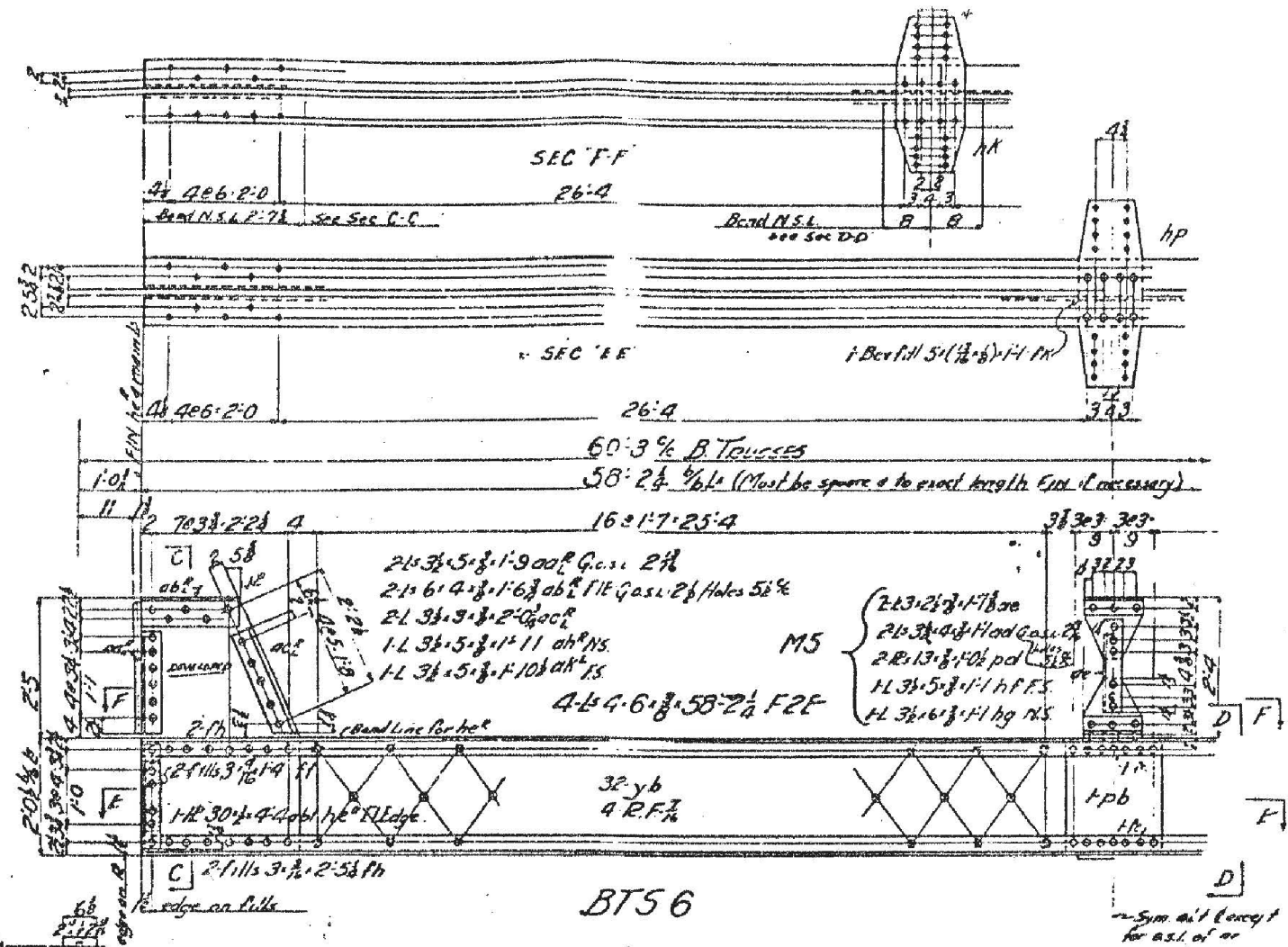
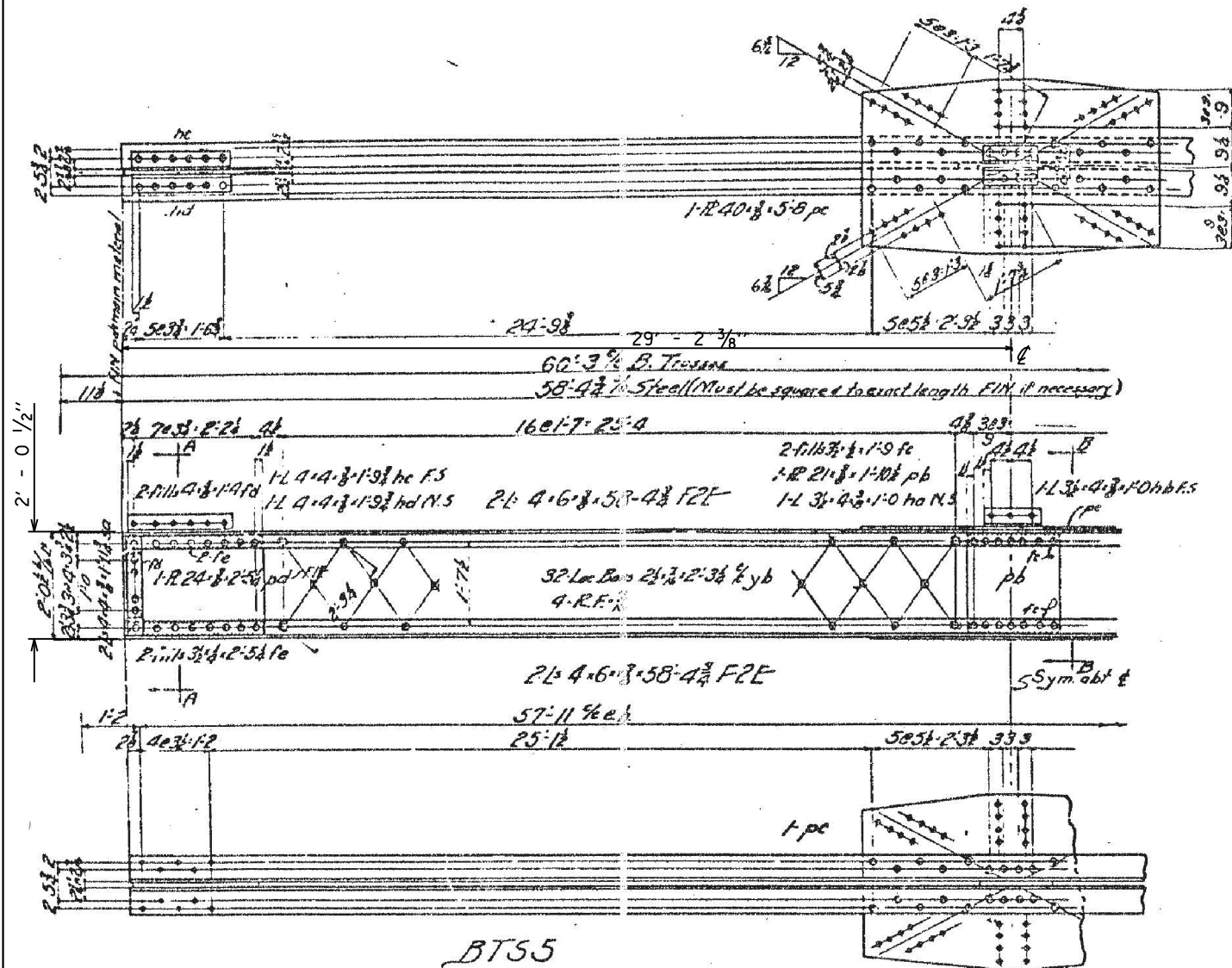
FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	IL RTE. 43 / HARLEM AVE. (OVER SANTARY & SHIP CANAL)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\puidot\pughst\102319399\1018891	sht-plan.dgn	DRAWN -	REVISED -		LOCATION 1: SN 016-0315			348	2012-078BP	COOK	36	15
\$MODELNAME\$	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		EXISTING BRIDGE PLAN			CONTRACT NO. 60V87				
	PLOT DATE = 11/9/2012	DATE -	REVISED -		SCALE:	SHEET 12	OF 25 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



SEE SHEET 11  
FOR LOCATION

## PAINT BTS4

FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL RTE. 43 / HARLEM AVE. (OVER SANTARY &amp; SHIP CANAL)</b> <b>LOCATION 1: SN 016-0315</b> <b>EXISTING BRIDGE PLAN</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw\work\puidot\pughst\02319399\0108913-sht.pln.dgn		DRAWN -	REVISED -			348	2012-078BP	COOK	36	16	
PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -			CONTRACT NO. 60VB7					
\$MODELNAME\$	PLOT DATE = 11/9/2012	DATE -	REVISED -			SCALE:	SHEET 13 OF 25 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

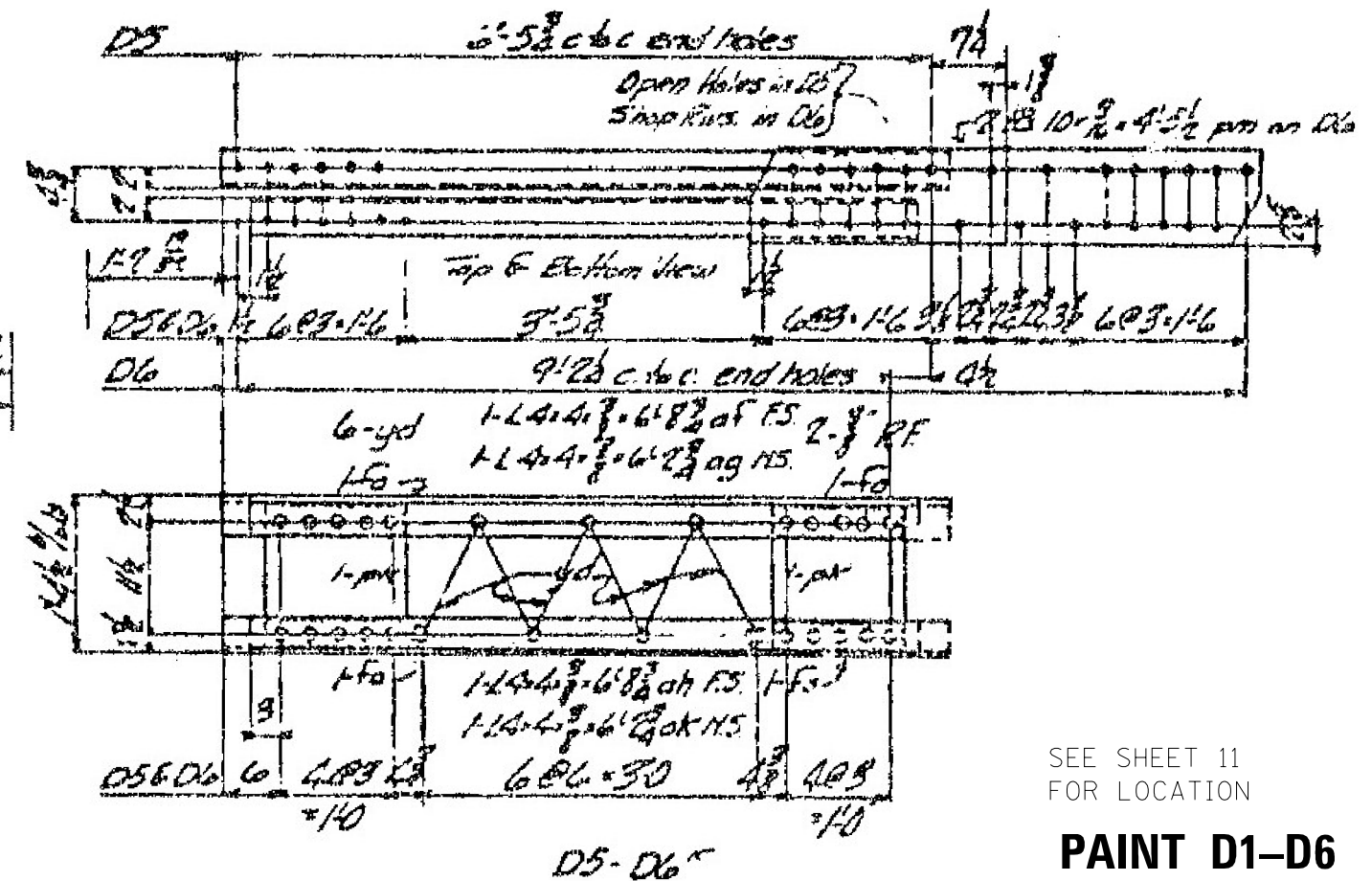
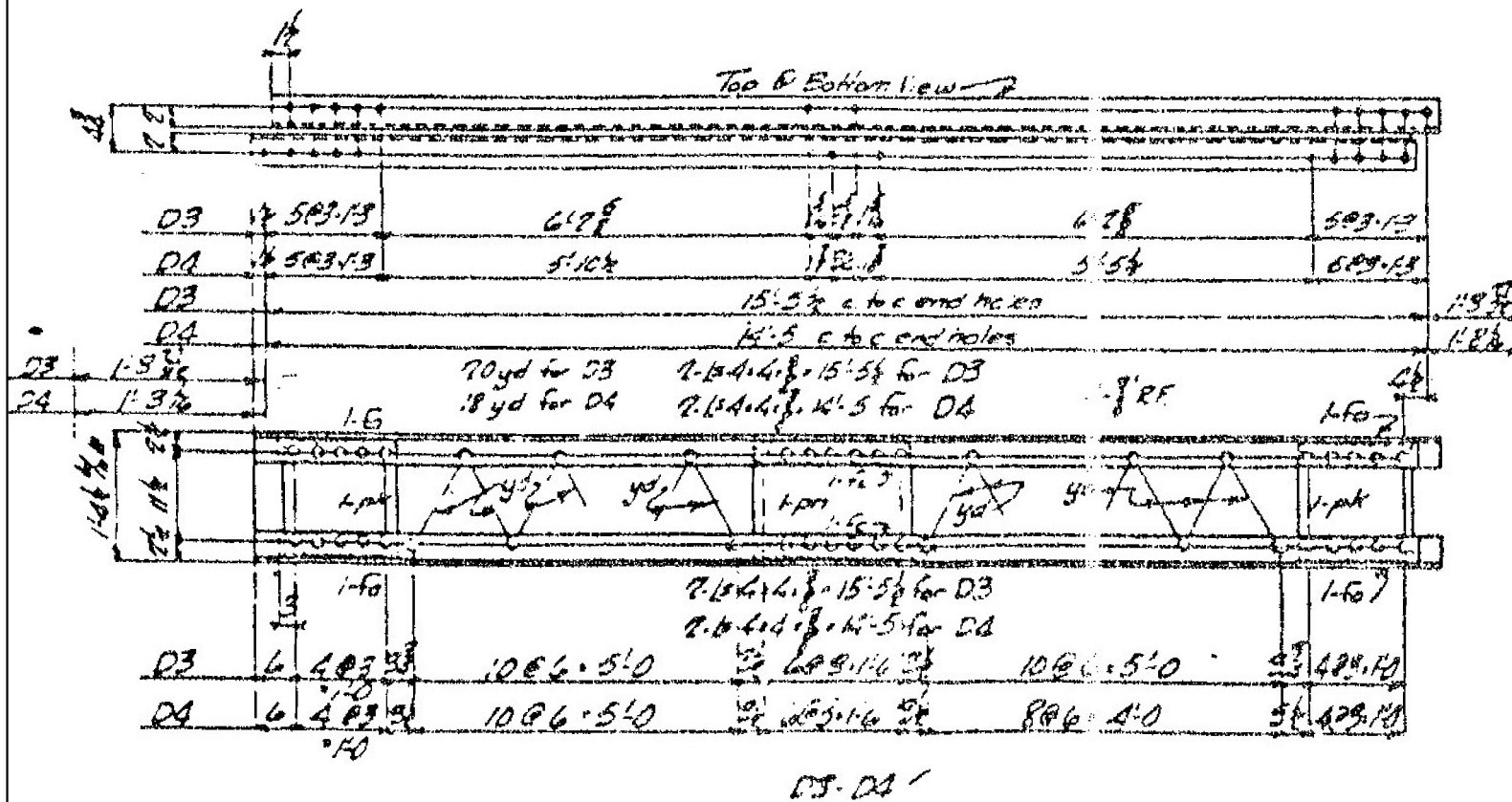
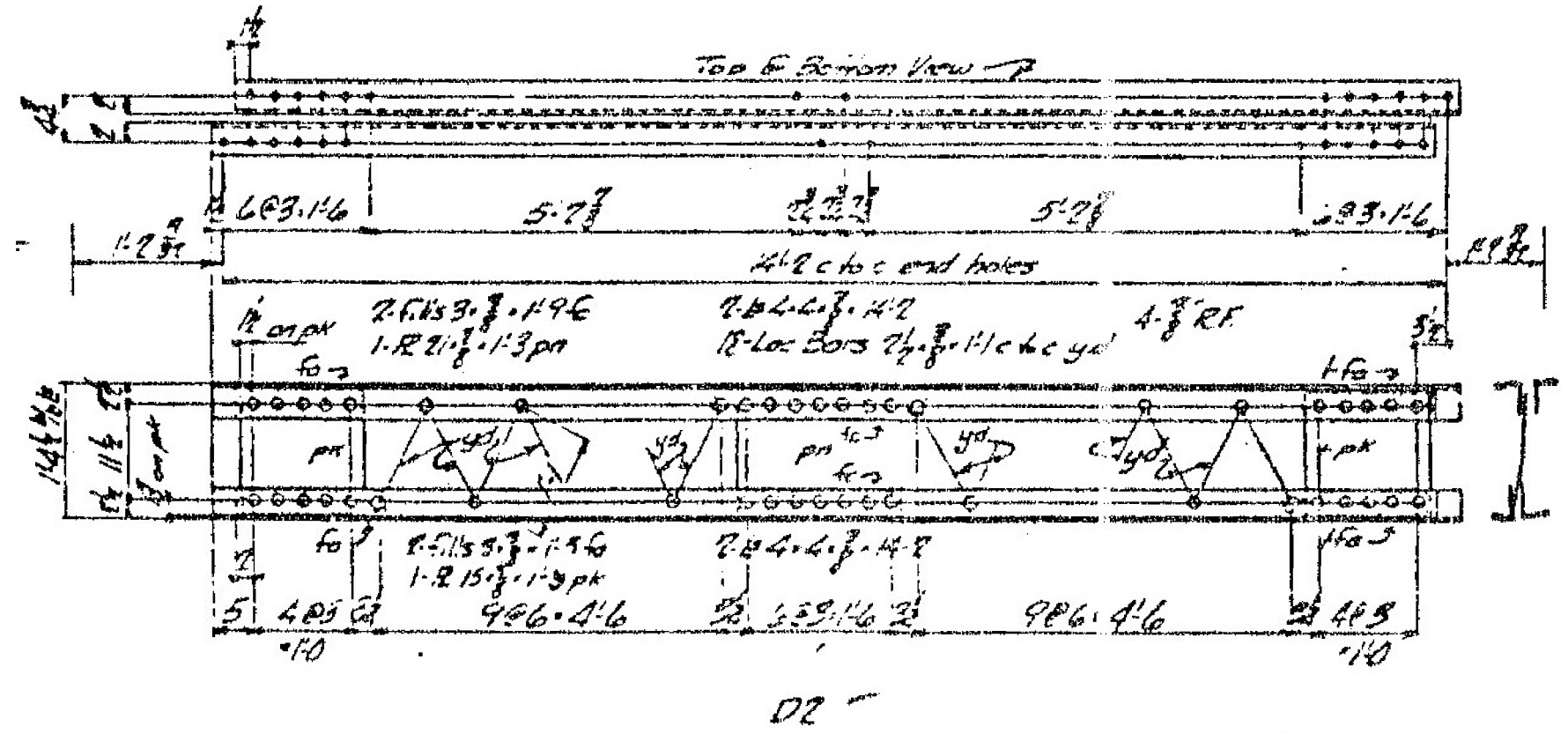
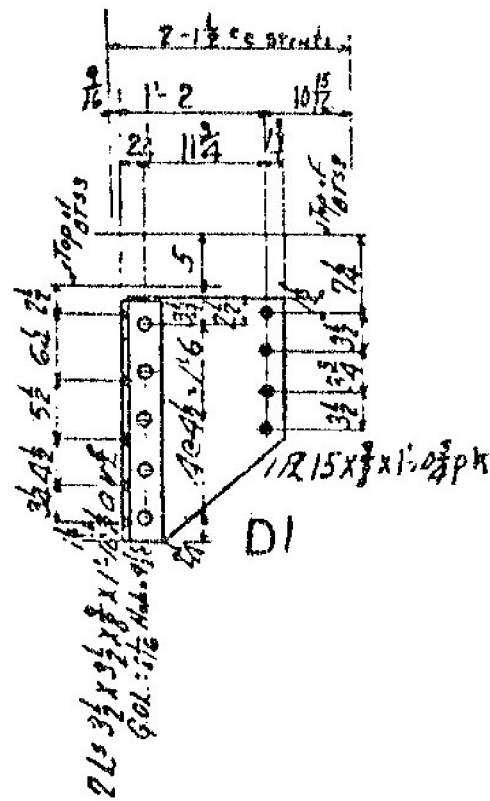


SEE SHEET 11 FOR LOCATION

**PAINT BTS5, BTS6, M5 & M6**

FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL RTE. 43 / HARLEM AVE. (OVER SANTARY &amp; SHIP CANAL)</b> LOCATION 1: SN 016-0315 EXISTING BRIDGE PLAN	F.A.P. R.T.E. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =	
et:\pwork\pwork\pughst\100319399\10188913-sht-plan.dgn		DRAWN -	REVISED -			348	2012-078BP	COOK	36	17	
PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -			CONTRACT NO. 60V87					
\$MODELNAME\$	PLOT DATE = 11/9/2012	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

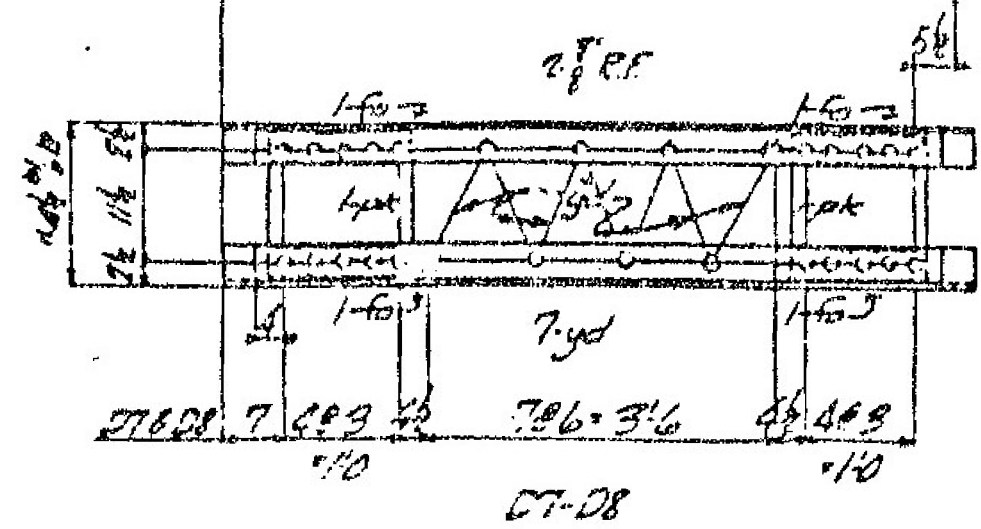
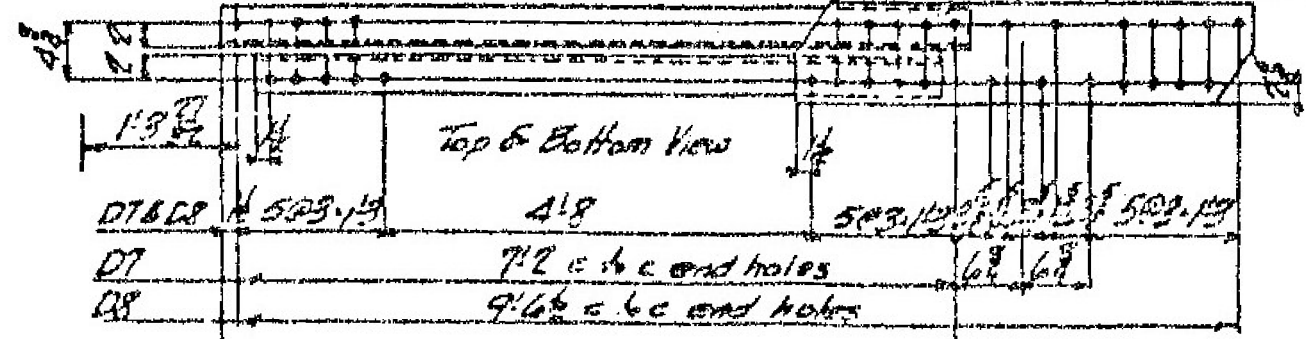




SEE SHEET 11 FOR LOCATION

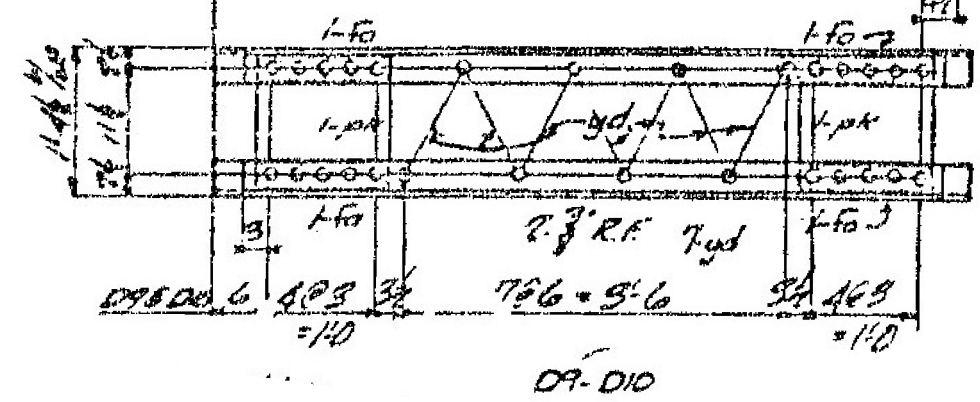
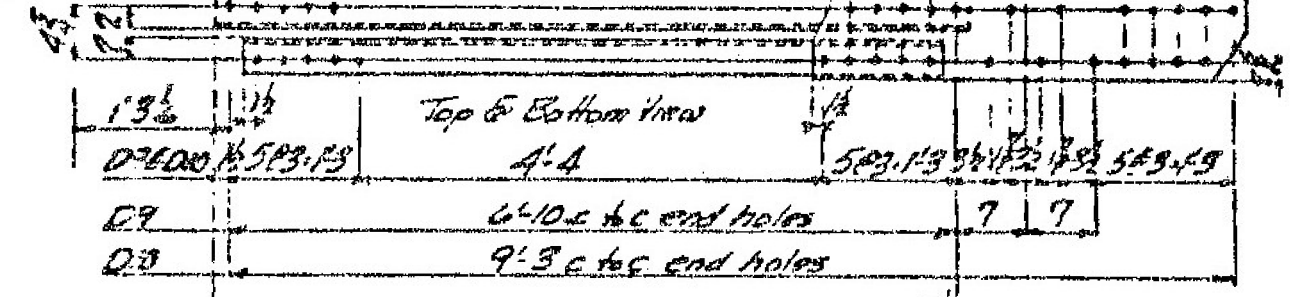
**PAINT D1-D6**

Open Holes in D7  
Shop Rvs. in D8  
2-RS 10'- $\frac{1}{2}$ " x 3'-10 $\frac{1}{2}$ " pt on D8

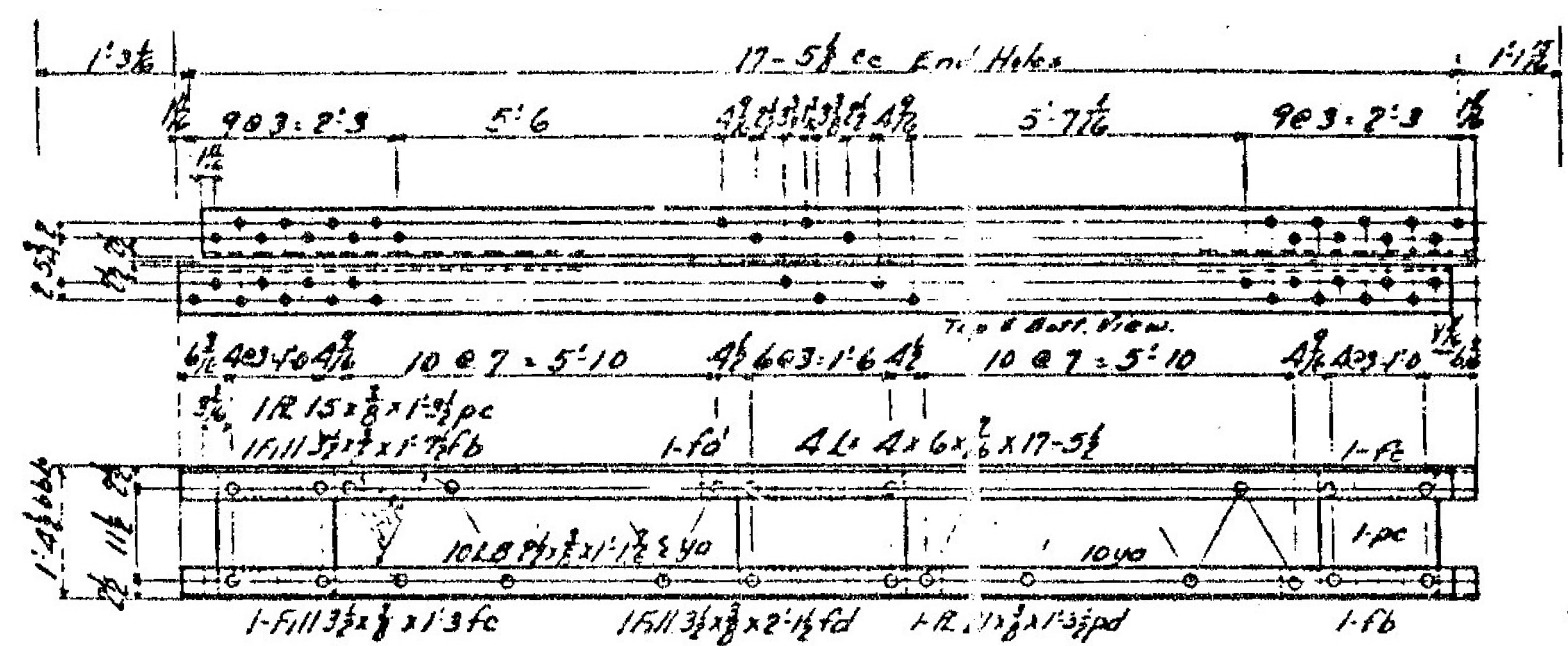


1-L 4x4 @ 7'-5" on F.S.  
1-L 4x4 @ 6'-11" on M.S.  
1-L 4x4 @ 7'-5" on F.S.  
1-L 4x4 @ 6'-11" on M.S.

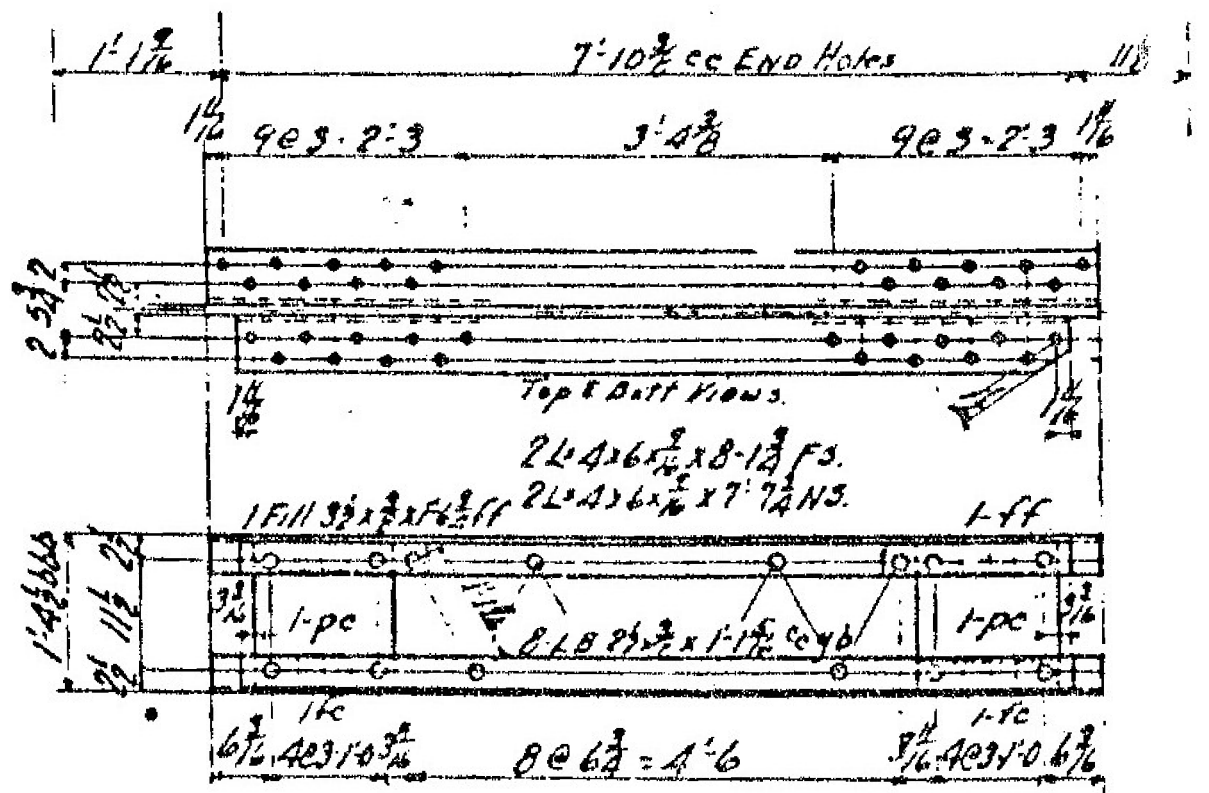
Open Holes in D9  
Shop Rvs. in D10  
2-RS 10'- $\frac{1}{2}$ " x 3'-11" pt on D10



1-L 4x4 @ 7'-10" on F.S.  
1-L 4x4 @ 6'-7" on M.S.  
1-L 4x4 @ 7'-10" on F.S.  
1-L 4x4 @ 6'-7" on M.S.



D13



D14

SEE SHEET 11  
FOR LOCATION

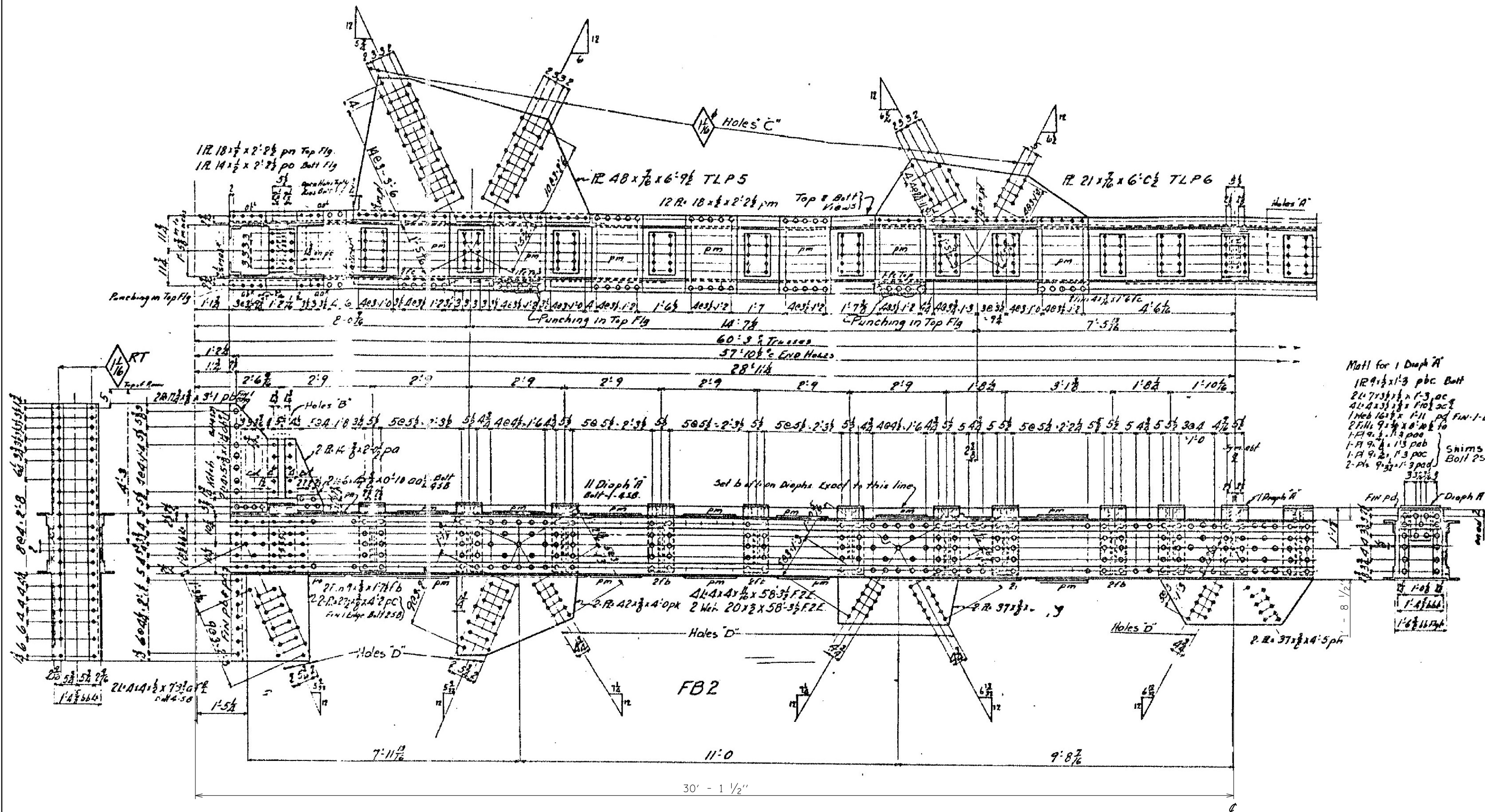
**PAINT D7-10, D13 & D14**











Matl for 1 Diaph A  
 1R 9 1/2 x 1' 3 pbc Butt  
 2L 7 1/2 x 1' 3 ac  
 4L 4 1/2 x 1' 3 ac  
 1 Web 16 1/2 x 1' 11 pd Fin-1-End  
 2 Flg 9 1/2 x 0' 10 1/2 to  
 1-A 9 1/2 x 1' 3 pad  
 1-A 9 1/2 x 1' 3 pad  
 2-Pl 9 1/2 x 1' 3 pad

Shims  
Bolt 25B

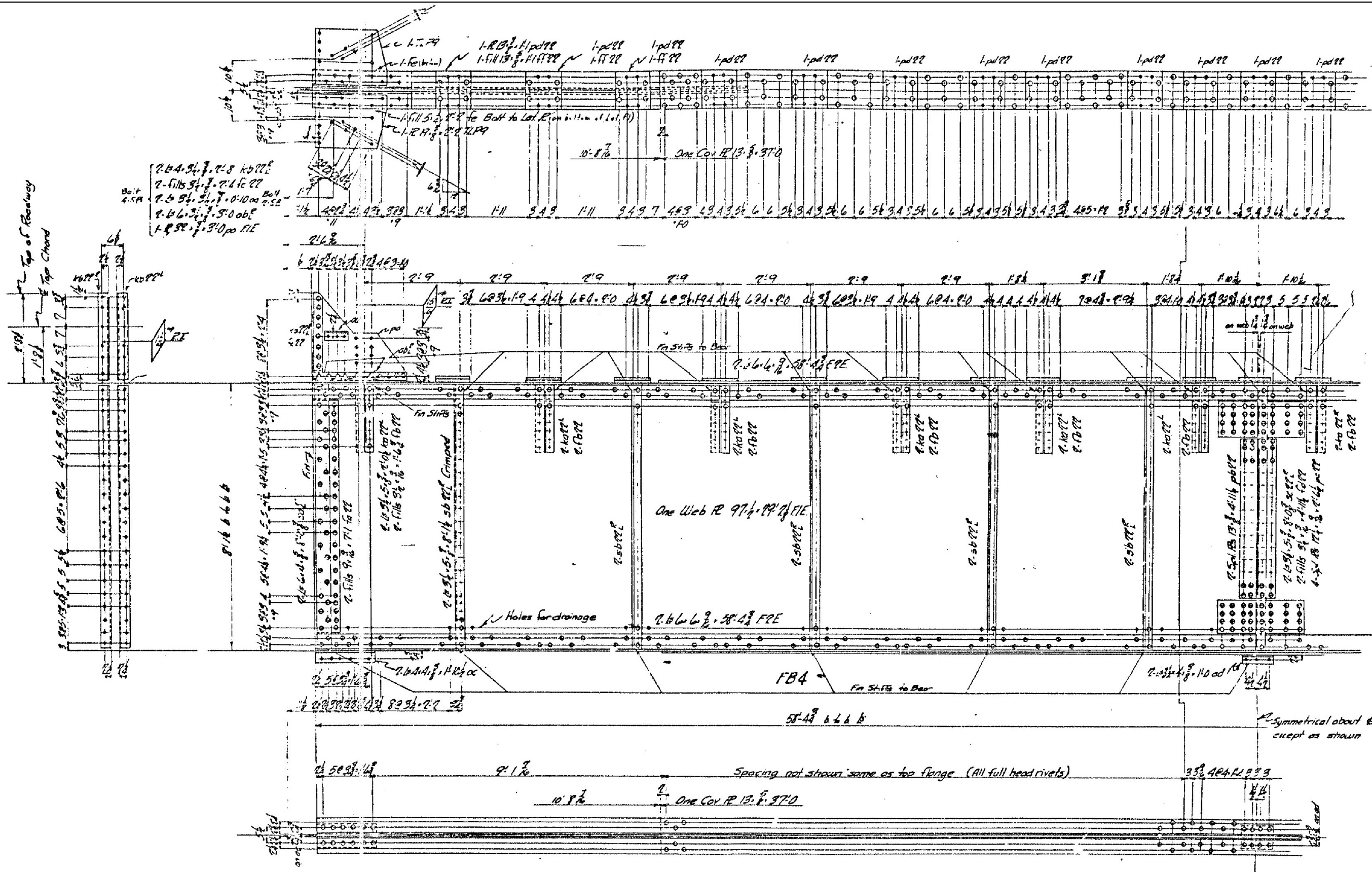
SEE SHEET 11  
FOR LOCATION

**PAINT FB2**

FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE. 43 / HARLEM AVE. (OVER SANTARY & SHIP CANAL) LOCATION 1: SN 016-0315 EXISTING BRIDGE PLAN		F.A.P. RTE. 348	SECTION 2012-078BP	COUNTY COOK	TOTAL SHEETS 36	SHEET NO. 22	
MODELNAME =	et:\pwork\pwork\pughst\02319399\0108913-sht-plan.dgn	DRAWN -	REVISED -		SCALE:	SHEET 19 OF 25 SHEETS	STA. TO STA.	CONTRACT NO. 60V87				
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
	PLOT DATE = 11/9/2012	DATE -	REVISED -									







SEE SHEET 11  
FOR LOCATION

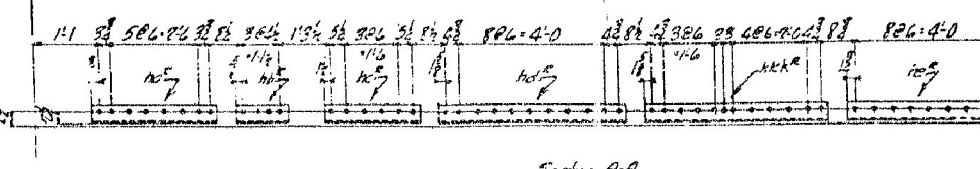
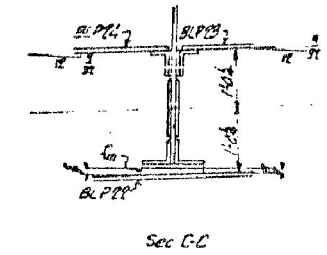
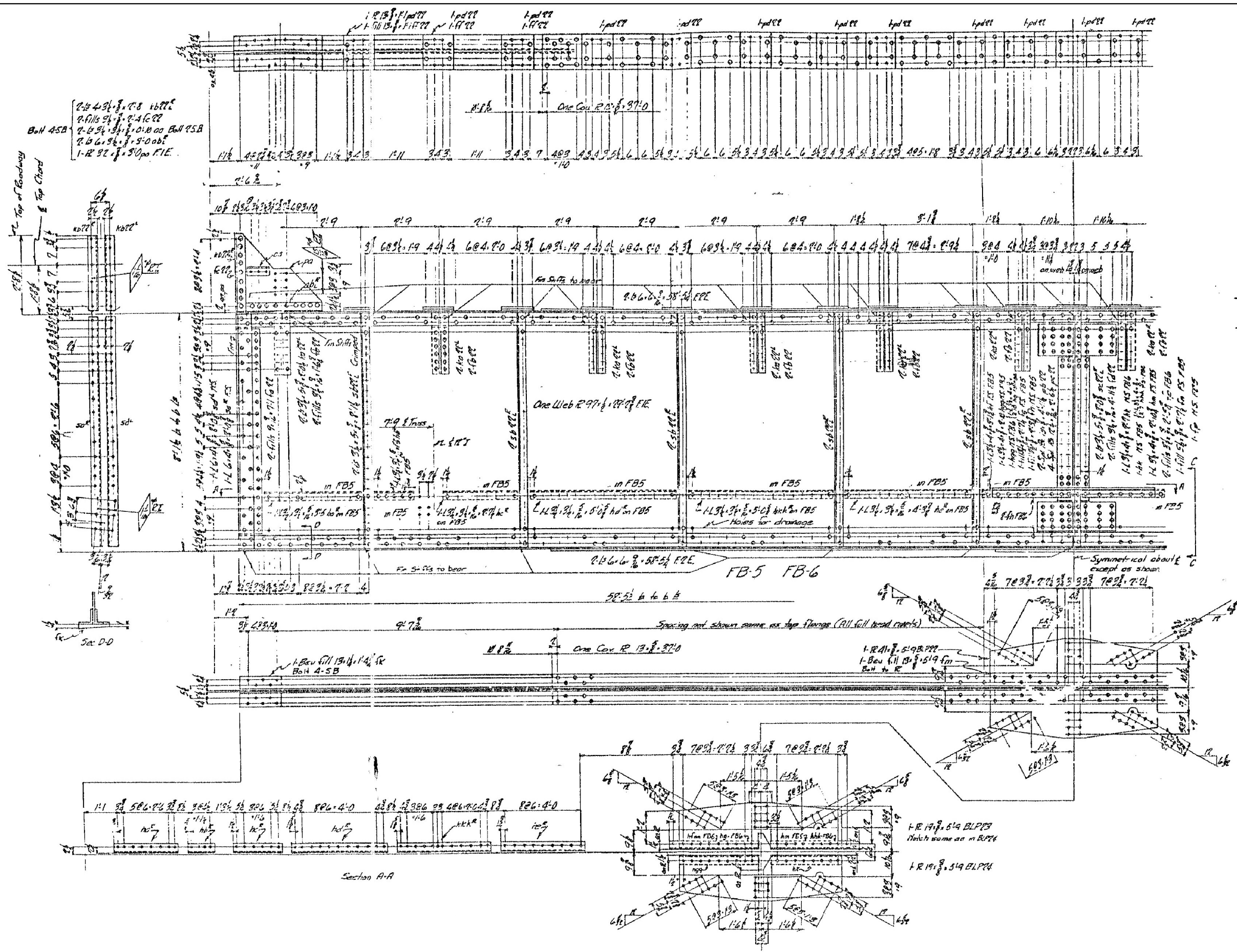
**PAINT FB4**

FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -
et:\pw_work\p1dot\pughst\d0319399\010891	sht.pln.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 11/9/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

IL RTE. 43 / HARLEM AVE. (OVER SANTARY & SHIP CANAL)			
LOCATION 1: SN 016-0315			
EXISTING BRIDGE PLAN			
SCALE:	SHEET 21	OF 25 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	2012-078BP	COOK	36	24
CONTRACT NO. 60V87				
ILLINOIS FED. AID PROJECT				

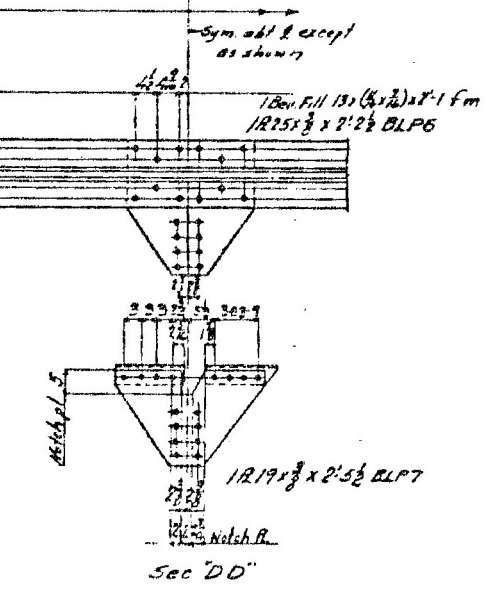
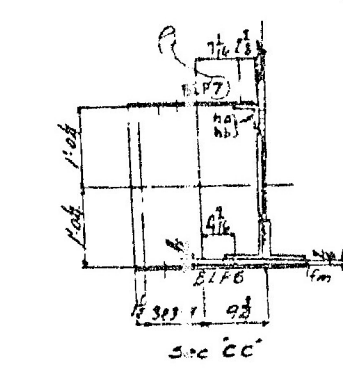
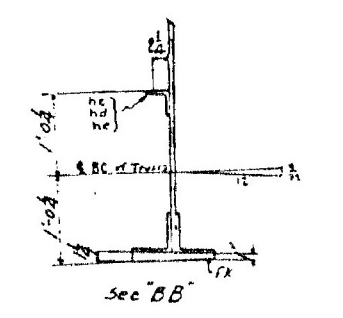
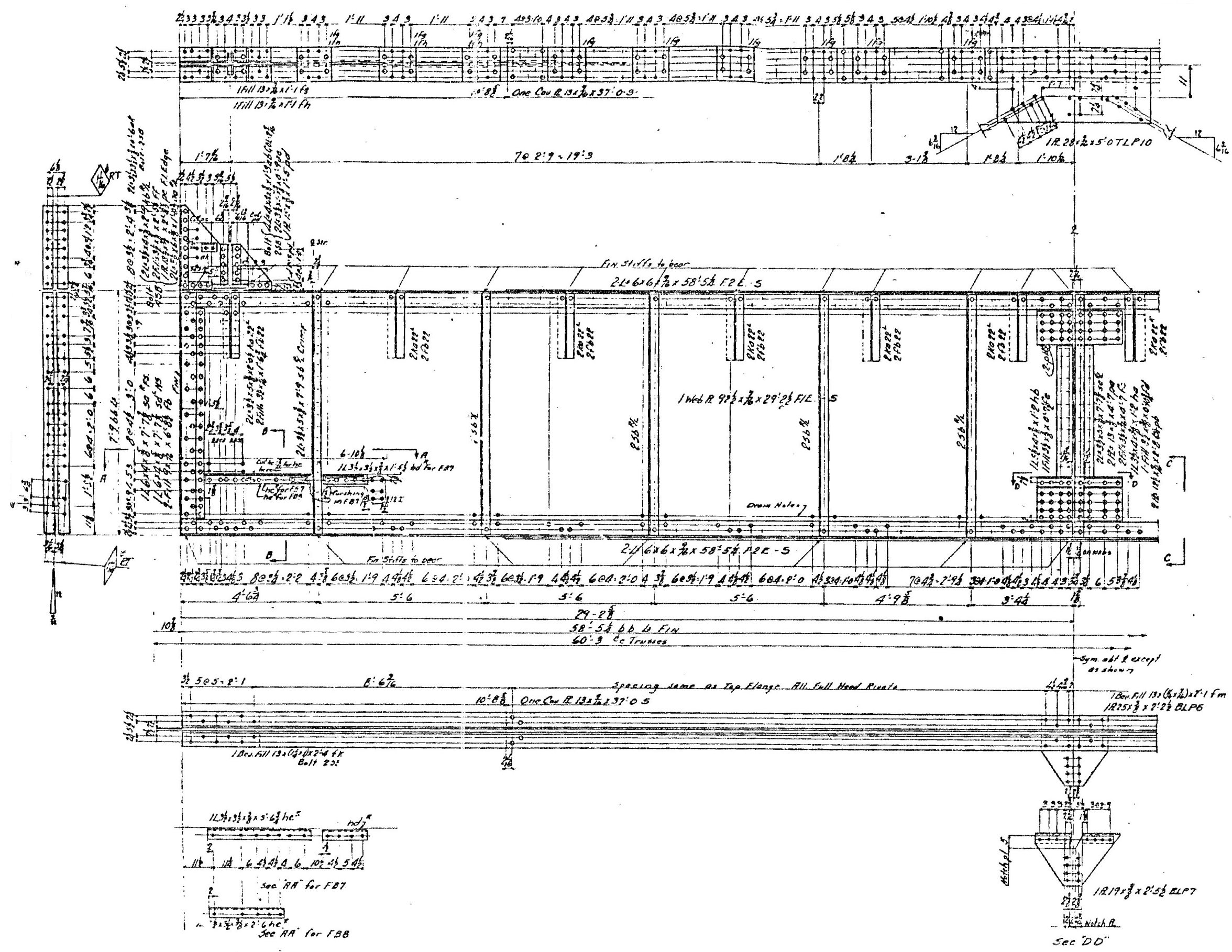


SEE SHEET 11  
FOR LOCATION

### PAINT FB5 - FB6

FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL RTE. 43 / HARLEM AVE. (OVER SANTARY &amp; SHIP CANAL) LOCATION 1: SN 016-0315 EXISTING BRIDGE PLAN</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw_work\p1dot\pughst\02319399\010891	sht.pln.dgn	DRAWN -	REVISED -			348	2012-078BP	COOK	36	25	
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 60V87					
\$MODELNAME\$	PLOT DATE = 11/9/2012	DATE -	REVISED -			SCALE:	SHEET 22 OF 25 SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT



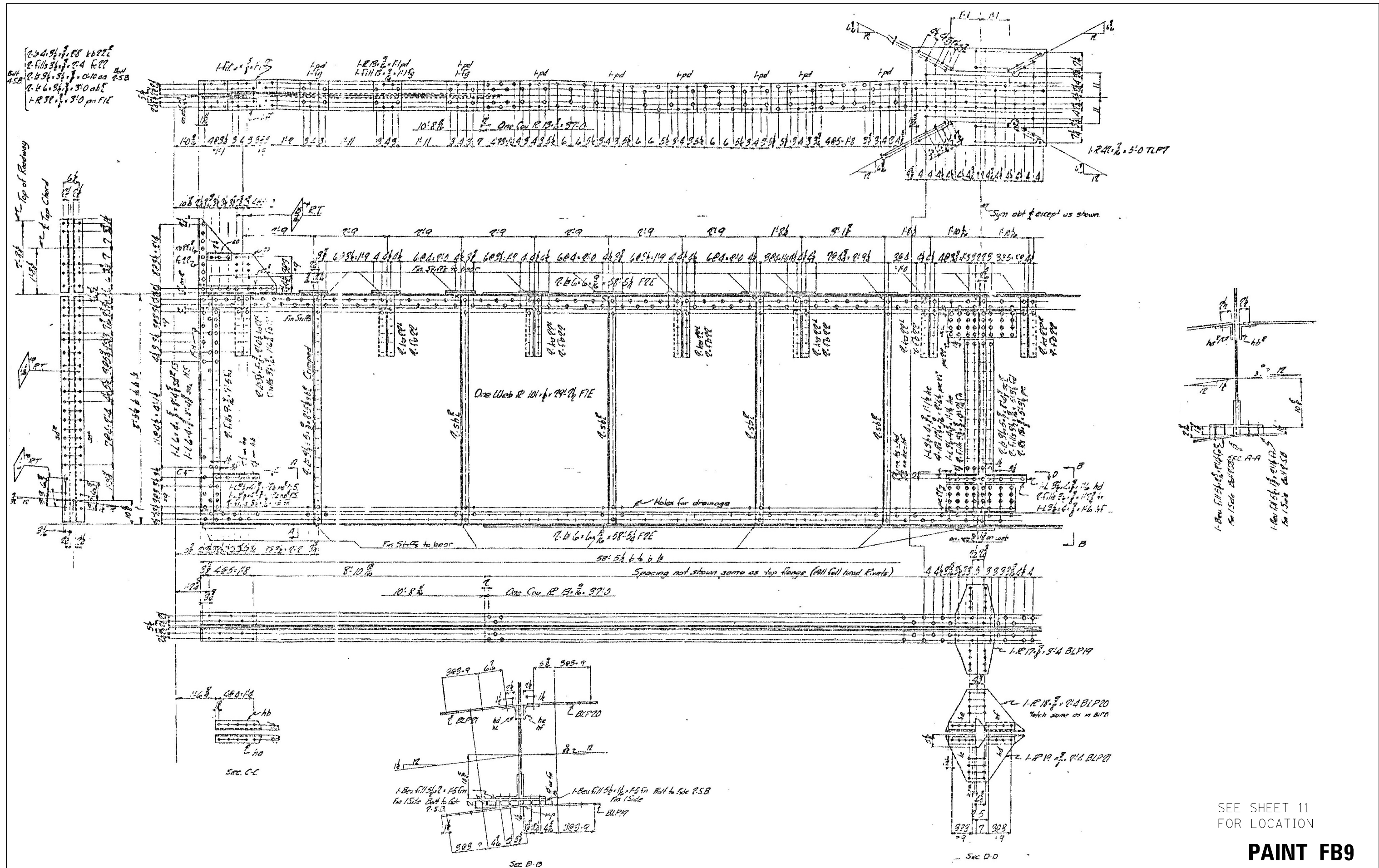


SEE SHEET 11  
FOR LOCATION

## PAINT FB7 - FB8

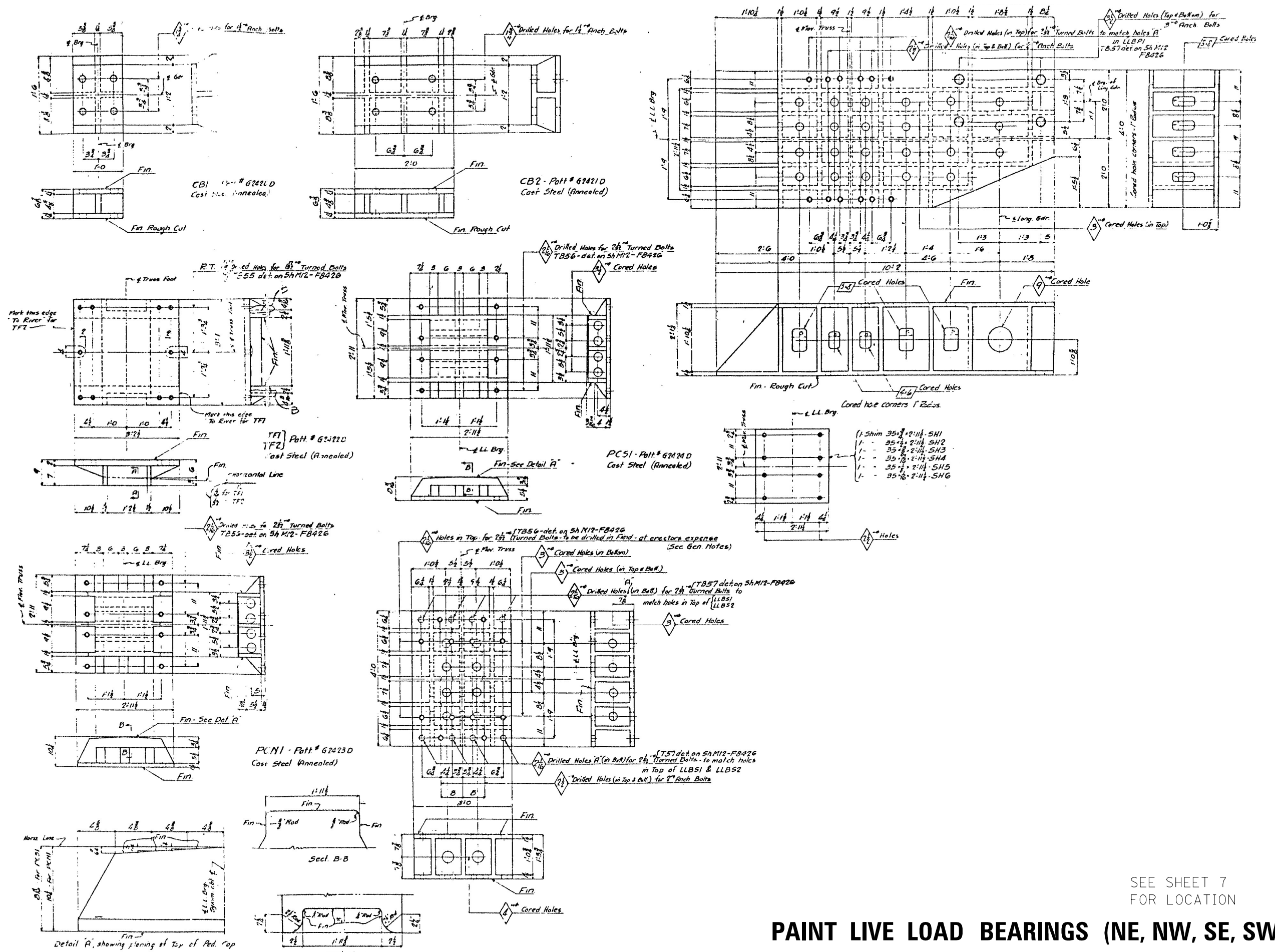
FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	IL RTE. 43 / HARLEM AVE. (OVER SANTARY & SHIP CANAL) LOCATION 1: SN 016-0315 EXISTING BRIDGE PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			348	2012-078BP	COOK	36	26
		CHECKED -	REVISED -			CONTRACT NO. 60V87				
		DATE -	REVISED -		SCALE:	SHEET 23 OF 25 SHEETS		STA.	TO STA.	
						ILLINOIS FED. AID PROJECT				





# PAINT FB9

FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL RTE. 43 / HARLEM AVE. (OVER SANTARY &amp; SHIP CANAL)</b> <b>LOCATION 1: SN 016-0315</b> <b>EXISTING BRIDGE PLAN</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\pwork\pughst\d0319399\010891	sht-plan.dgn	DRAWN -	REVISED -		348	2012-078BP	COOK	36	27	CONTRACT NO. 60V87	
MODELNAME =	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE:	SHEET 24	OF 25 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	
	PLOT DATE = 11/9/2012	DATE -	REVISED -								



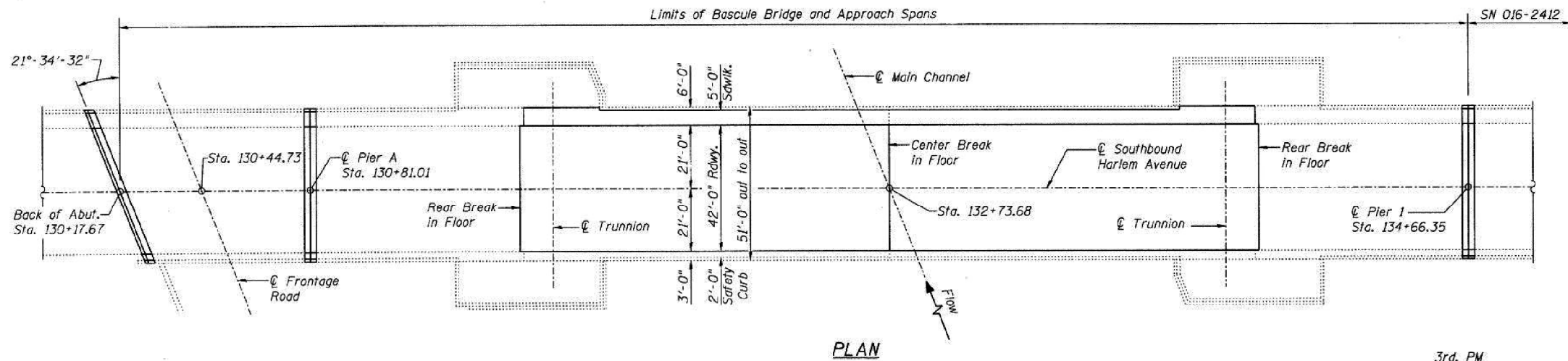
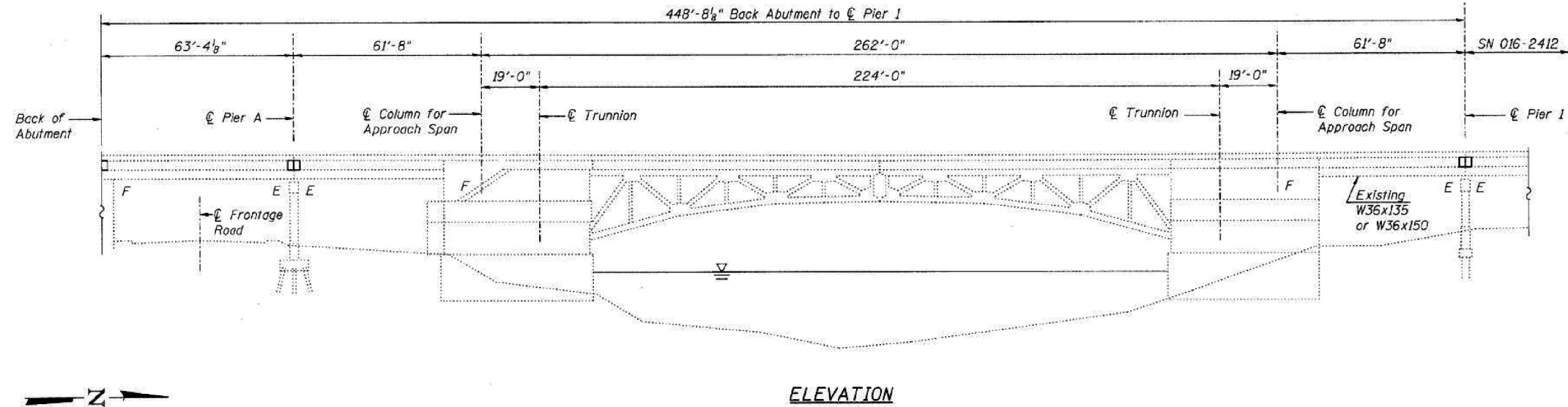
SEE SHEET 7 FOR LOCATION

**PAINT LIVE LOAD BEARINGS (NE, NW, SE, SW)**

FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL RTE. 43 / HARLEM AVE. (OVER SANTARY &amp; SHIP CANAL)</b> LOCATION 1: SN 016-0315 EXISTING BRIDGE PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\puidot\pughst\d0319399\0108918-sht.pln.dgn		DRAWN -	REVISED -			348	2012-078BP	COOK	36	28
PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -			CONTRACT NO. 60V87				
\$MODELNAME\$		DATE -	REVISED -			SCALE:	SHEET 25 OF 25 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Existing Structure: S.N. 016-0991 built in 1966 as F.A.I. 55, Section 207-0708.1-CF. Existing structure is a double leaf steel bascule bridge with a 4 1/2" welded steel grid deck, filled with concrete. Approach spans have steel stringers and reinforced concrete deck. In 1989, the expansion joints at the abutment and Pier A were replaced, the substructure concrete was repaired, a 2" concrete overlay was placed on the approaches and a 3/8" epoxy overlay was placed on the main span. In 1999, the main span deck was repaired and the epoxy overlay was replaced. Bridge length is 448'-8 1/2" from back of abutment to center of pier 1. The abutment, Pier A and Pier 1 are reinforced concrete. Pier A and Pier 1 consist of 3 circular columns with a continuous cap beam. The abutment is counterfort type. Stage Construction shall be utilized to maintain traffic during construction.



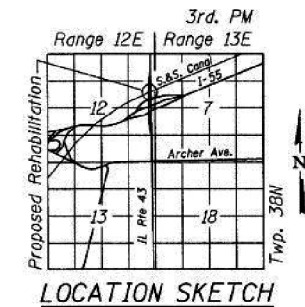
**DESIGN STRESSES**  
FIELD UNITS

New Construction  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)  
fy = 36,000 psi (Structural Steel) (M270 Gr. 36)

**DESIGN SPECIFICATIONS**

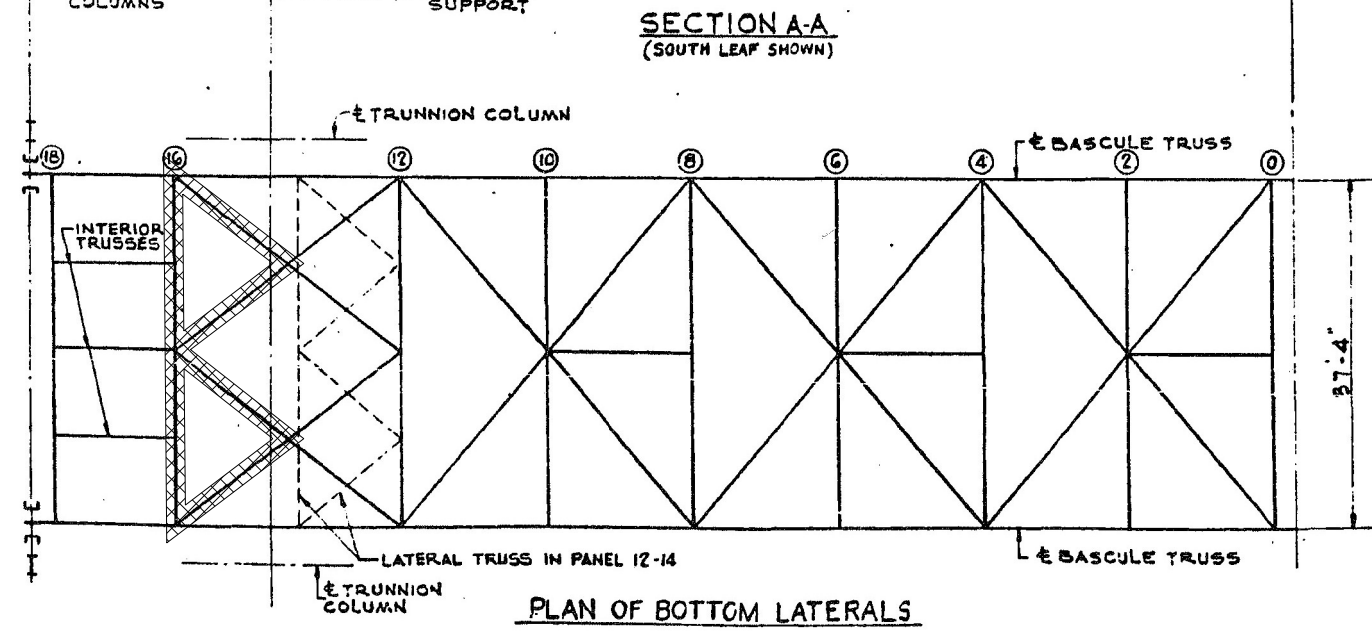
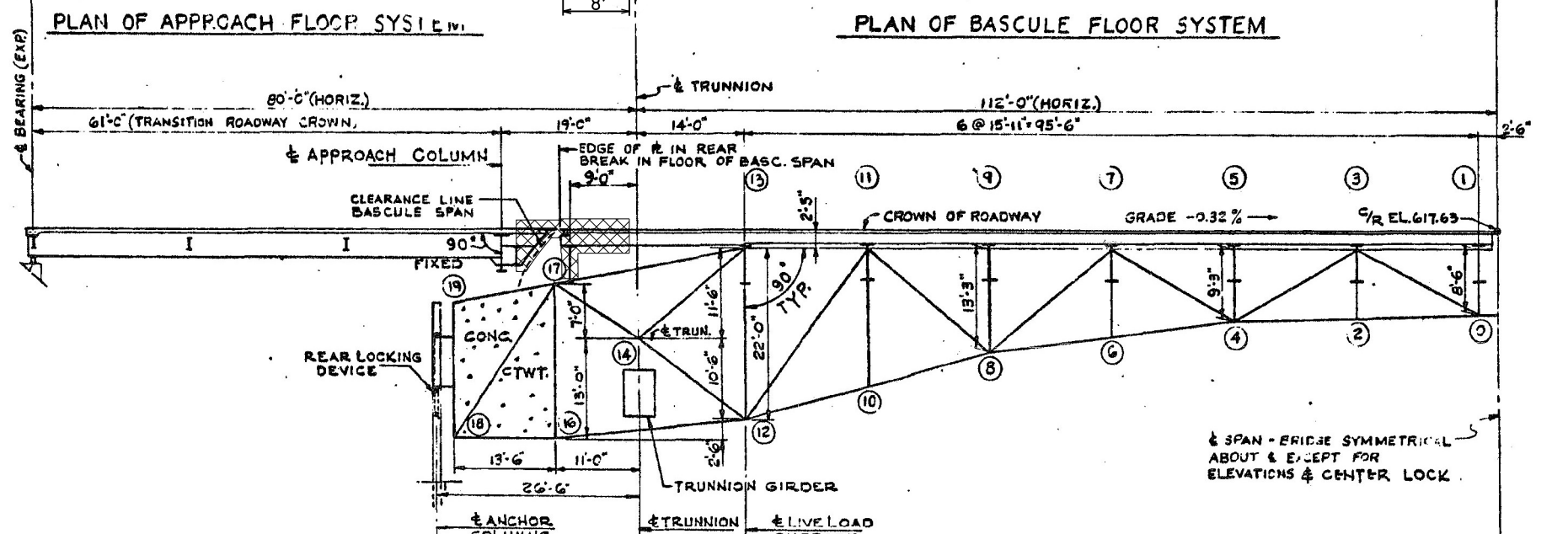
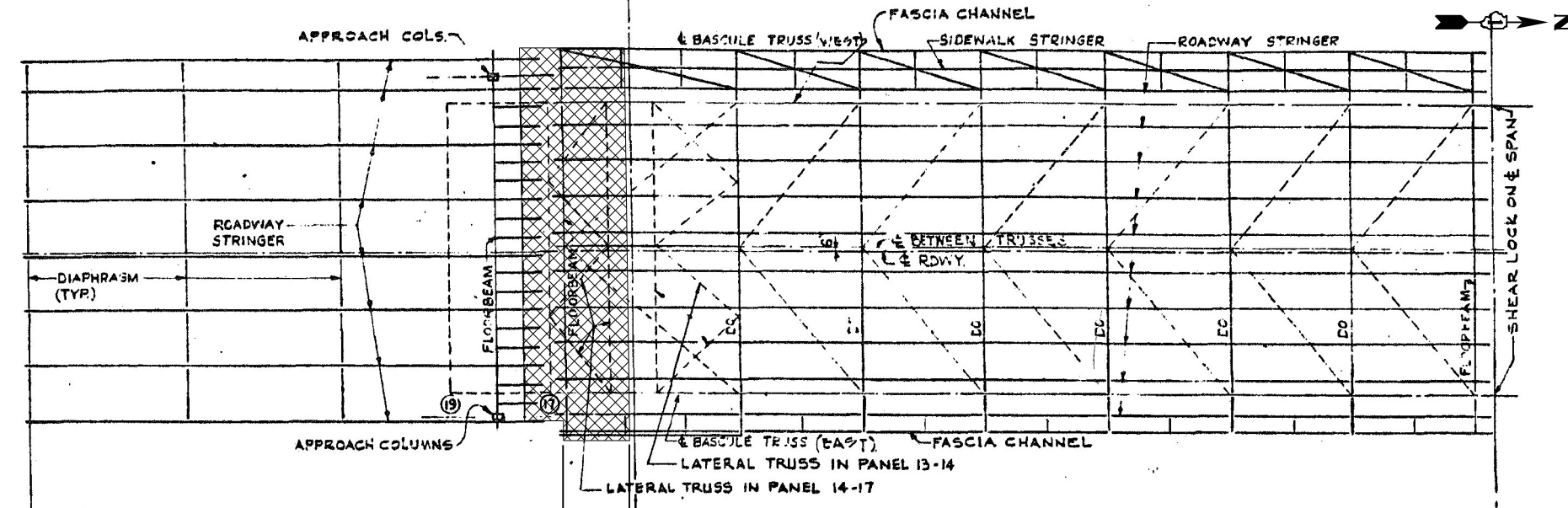
(New Construction)  
2002 AASHTO "Standard  
Specifications for Highway Bridges", 17th Edition

**LOADING HS 20-44**  
(Original Construction)



**FOR INFORMATION ONLY**

FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL RTE. 43 / HARLEM AVE. (OVER SANTARY &amp; SHIP CANAL) LOCATION 2: SN 016-0991 EXISTING BRIDGE PLAN</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw\work\p1dot\pughst\02319399\0108918.sht-plan.dgn		DRAWN -	REVISED -			348	2012-078BP	COOK	36	29	
#MODELNAME#	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			<b>CONTRACT NO. 60V87</b>					
	PLOT DATE = 11/9/2012	DATE -	REVISED -			SCALE:	SHEET 1 OF 8 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

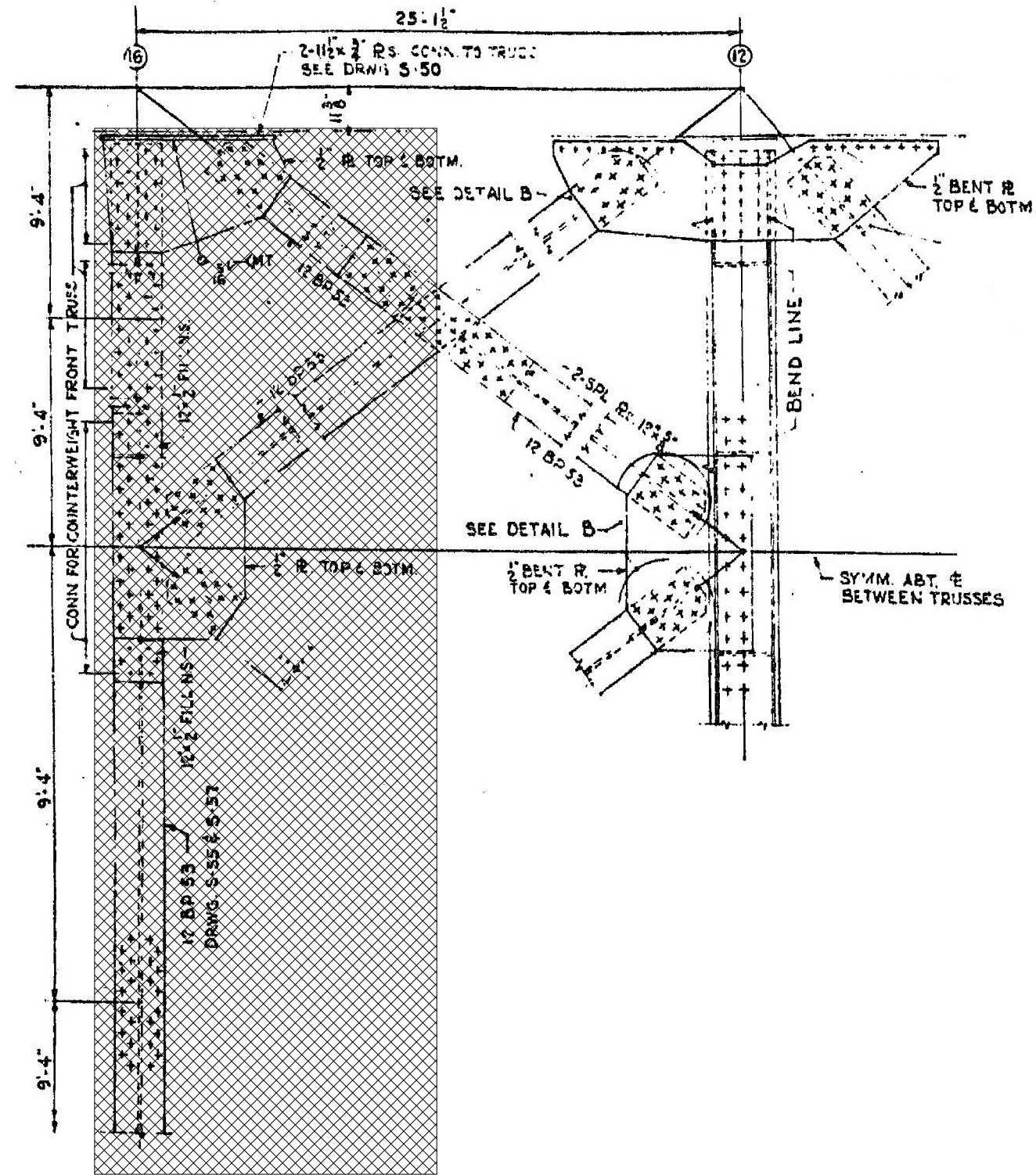


 AREA TO BE PAINTED

## N & S SPANS

FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE. 43 / HARLEM AVE. (OVER SANTARY & SHIP CANAL) LOCATION 2: SN 016-0991 EXISTING BRIDGE PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw\work\pwt\dot\pughst\02319399\010891	sht-plan.dgn	DRAWN -	REVISED -			348	2012-078BP	COOK	36	30	
\$MODELNAME\$	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -			CONTRACT NO. 60V87					
	PLOT DATE = 11/9/2012	DATE -	REVISED -			SCALE:	SHEET 2 OF 8 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	





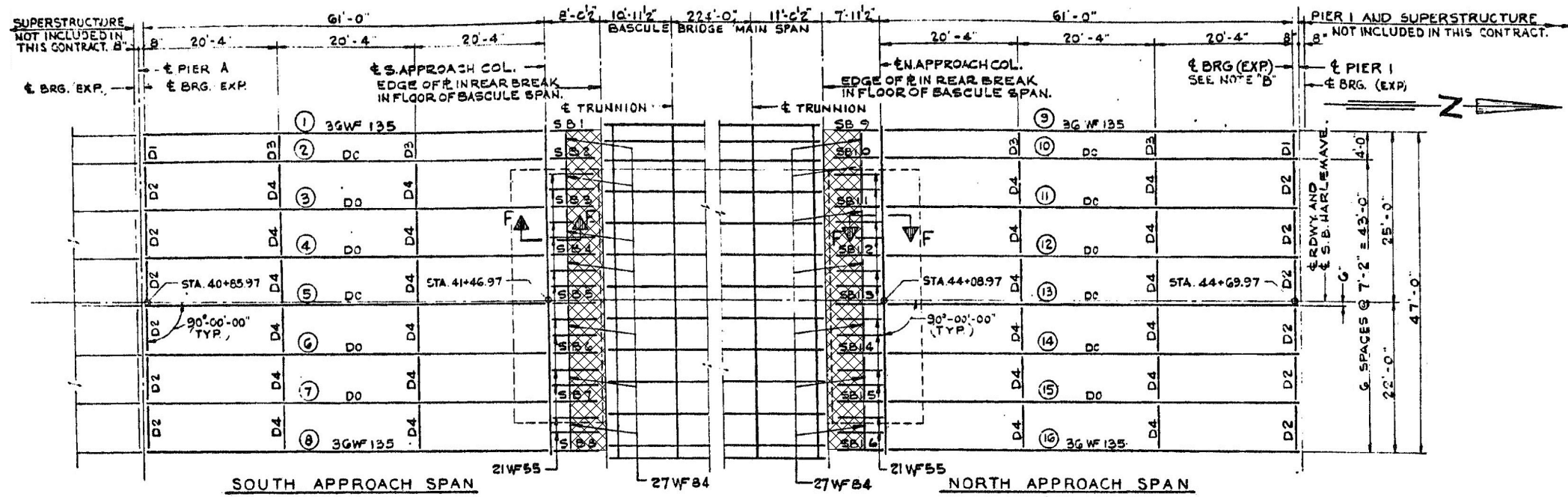
**BOTTOM CHORD LATERAL BRACINGS & STRUTS (DEVELOPED)**

 AREA TO BE PAINTED  
 SEE SHEET 30  
 FOR LOCATION

**PAINT BOTTOM CORD LATTERAL BRACING**

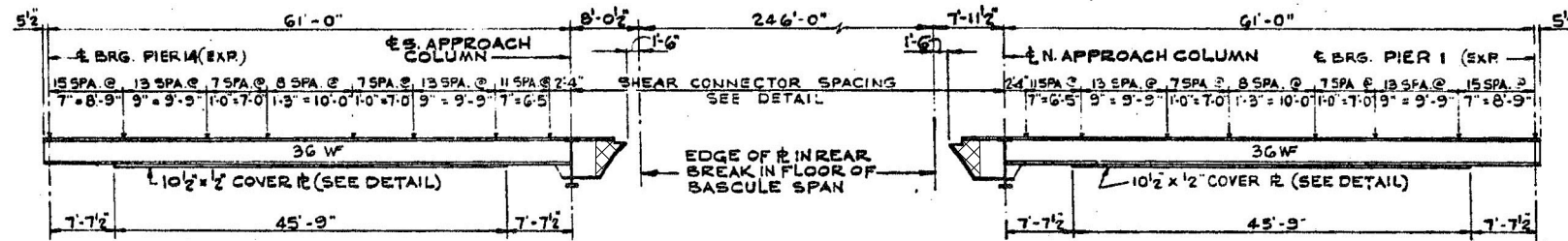
FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>IL RTE. 43 / HARLEM AVE. (OVER SANTARY &amp; SHIP CANAL)</b> LOCATION 2: SN 016-0991 EXISTING BRIDGE PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\pwt\dot\pughst\02319399\010891	sht-plan.dgn	DRAWN -	REVISED -		348	2012-078BP	COOK	36	31			
\$MODELNAME\$	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 60V87							
	PLOT DATE = 11/9/2012	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET 3	OF 8 SHEETS	STA.	TO STA.				



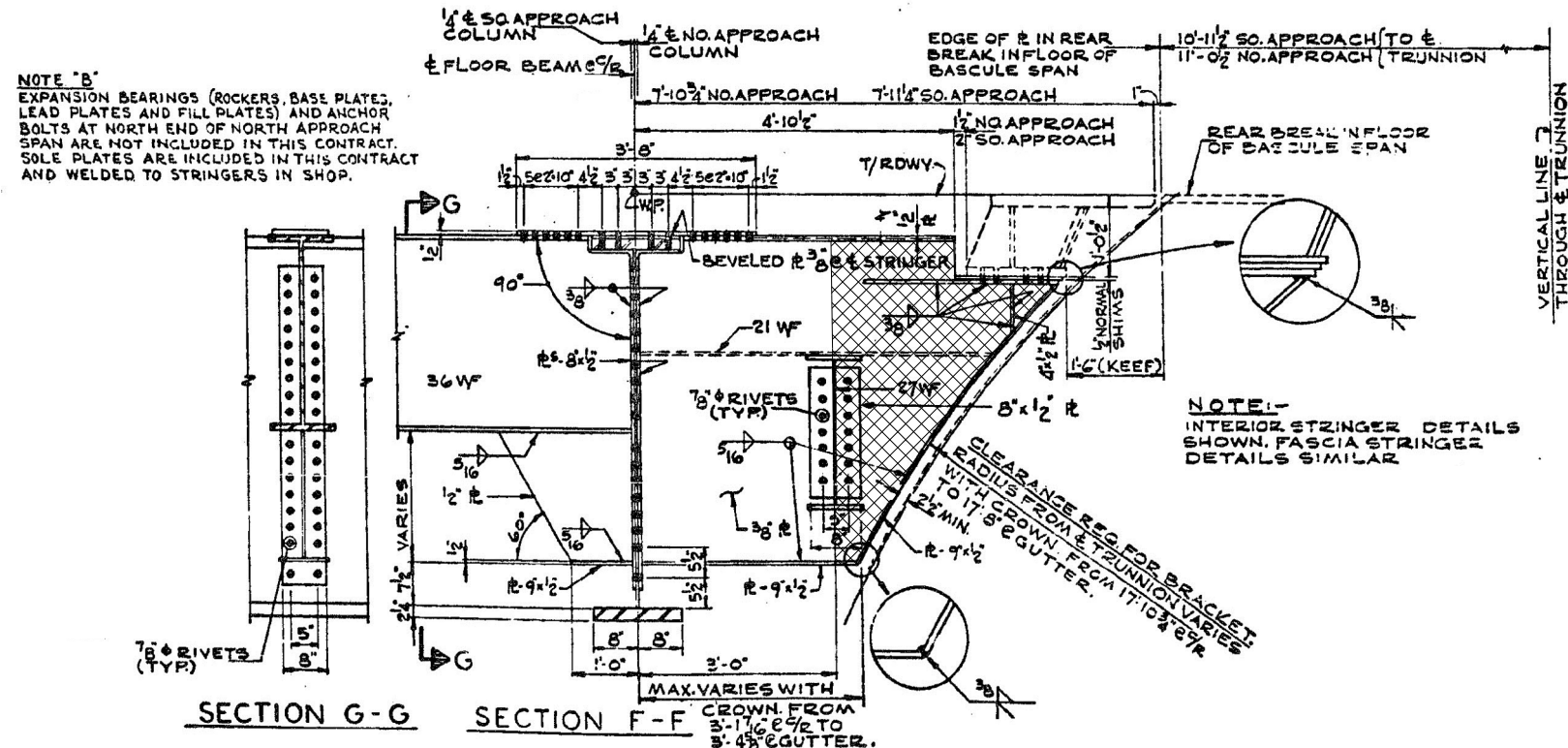


END DIAPHRAGMS:  
D1 AND D2 = 12WF40  
INTERMEDIATE DIAPHRAGMS:  
D3 AND D4 = 16WF36

APPROACH SPANS FRAMING PLAN



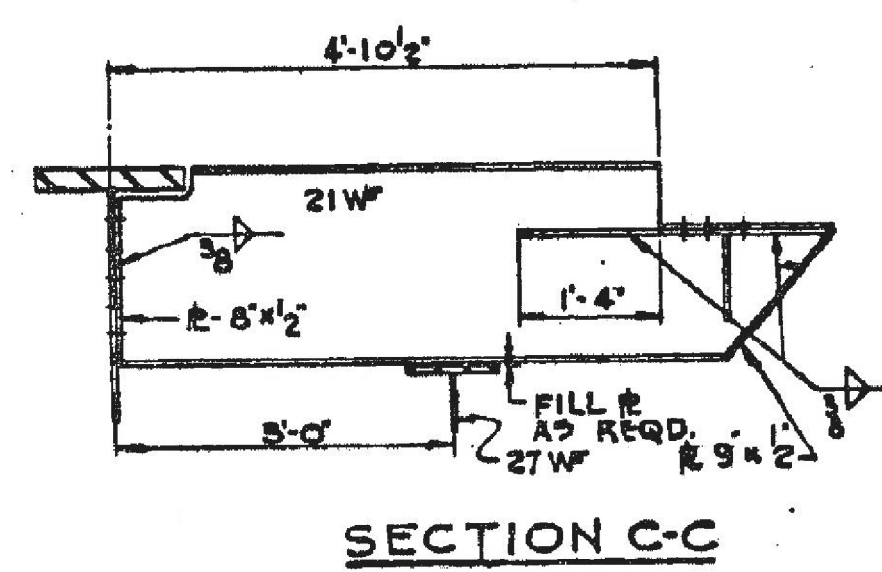
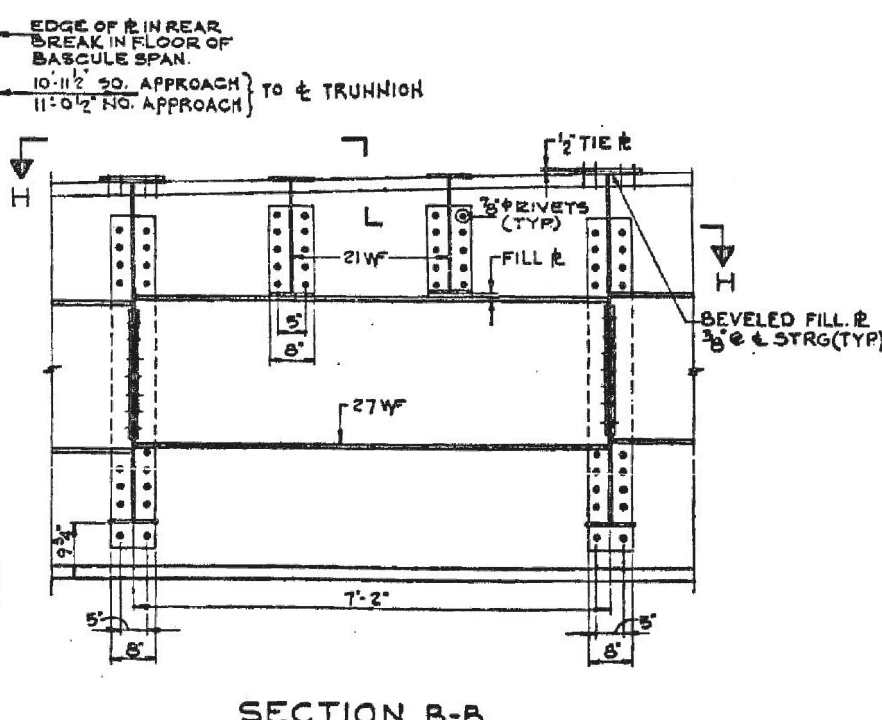
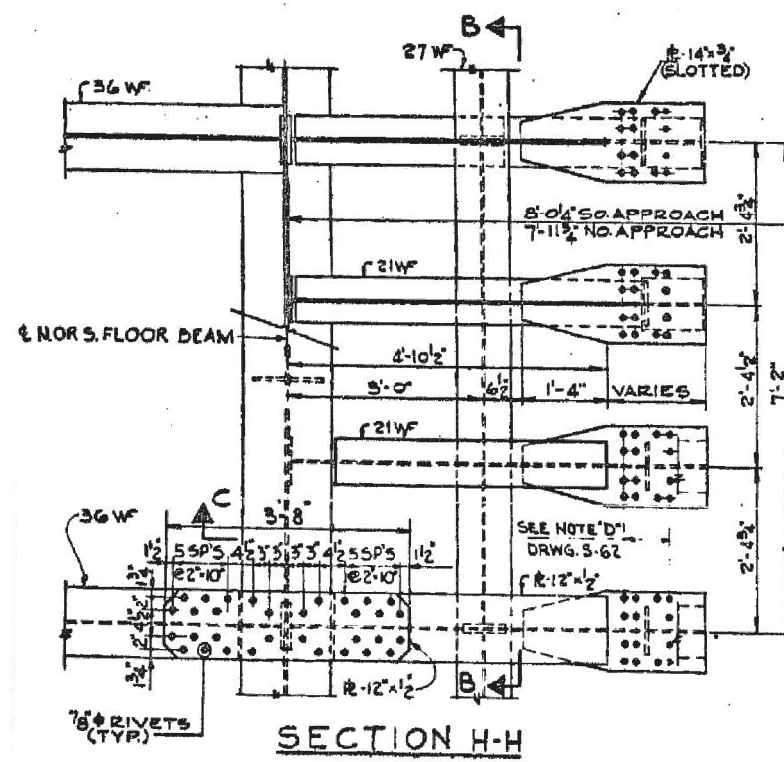
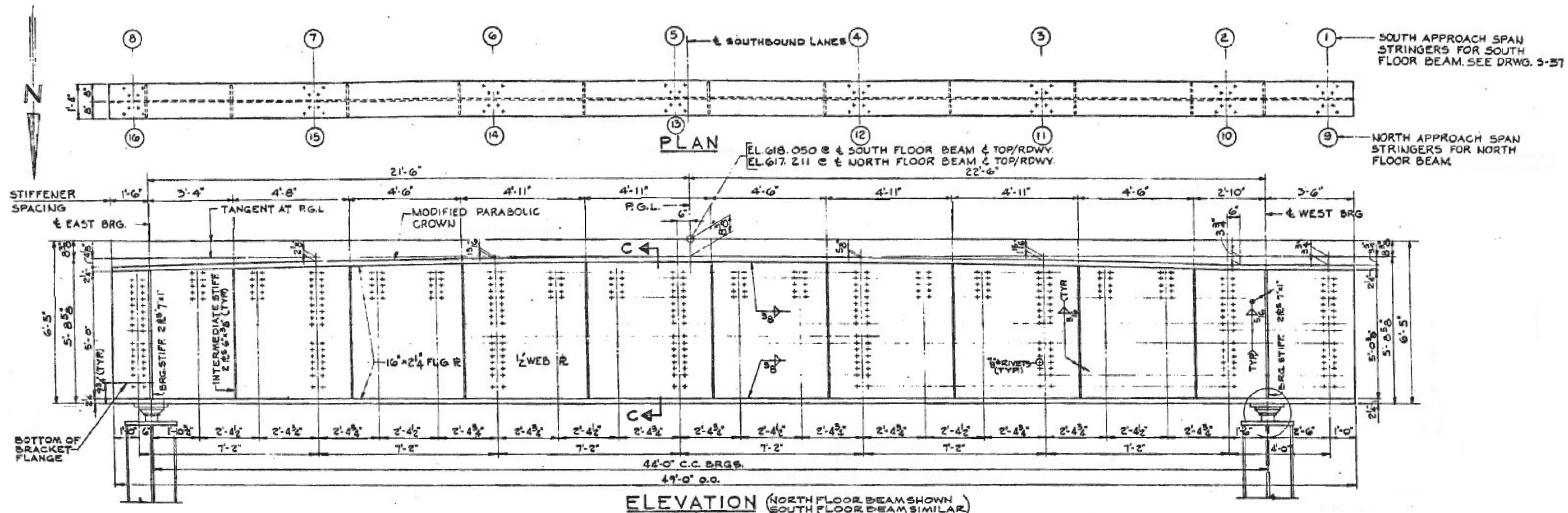
TYPICAL STRINGER ELEVATION



 AREA TO BE PAINTED  
SEE SHEET 30  
FOR LOCATION

**PAINT STRINGERS**

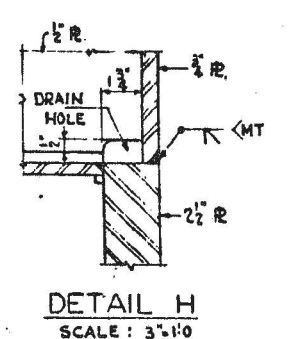
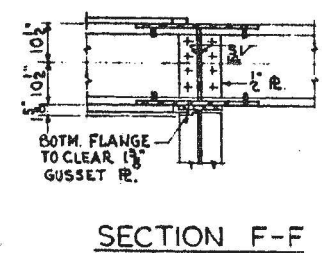
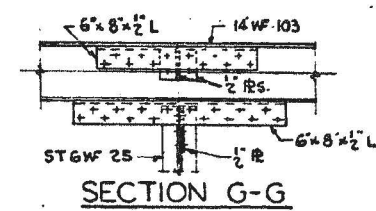
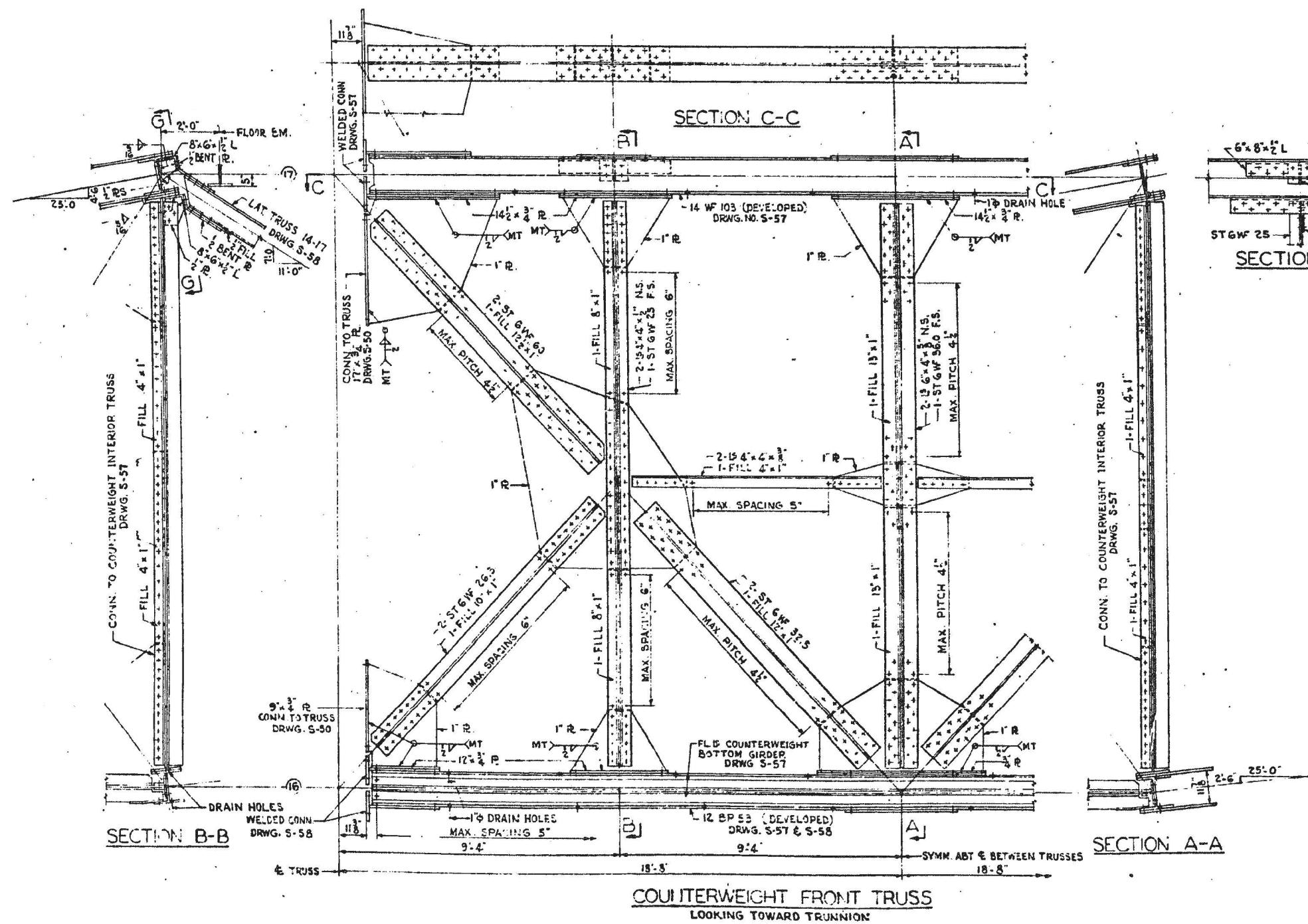
FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE. 43 / HARLEM AVE. (OVER SANTARY & SHIP CANAL) LOCATION 2: SN 016-0991 EXISTING BRIDGE PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw\work\p1dot\pughst\02319399\0108913-sht-plan.dgn		DRAWN -	REVISED -			348	2012-078BP	COOK	36	32	
\$MODELNAME\$	PLOT DATE = 11/9/2012	CHECKED -	REVISED -			CONTRACT NO. 60V87					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



SEE SHEET 30 FOR LOCATION

**PAINT FLOOR BEAMS**

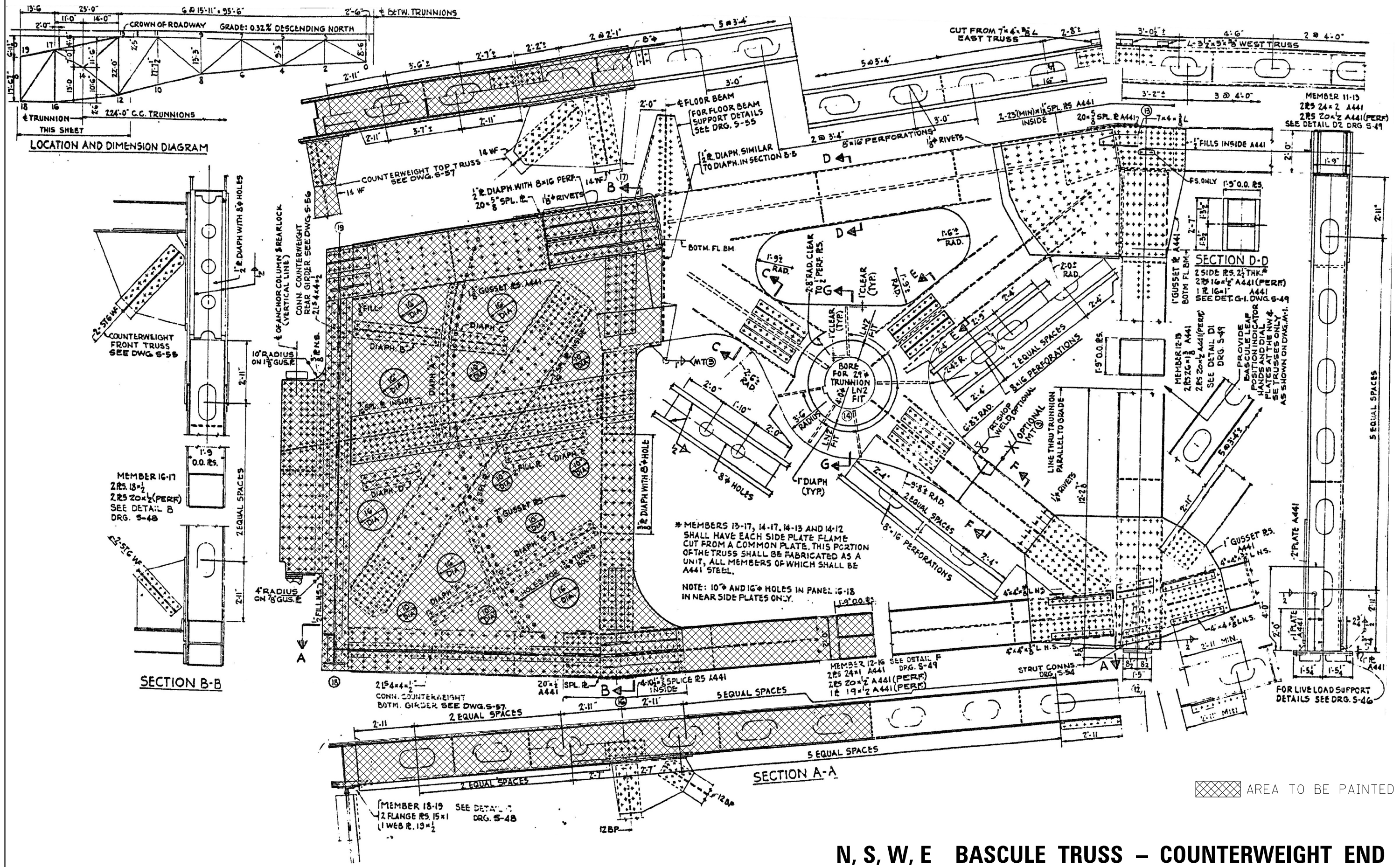
FILE NAME = c:\pwwork\pwwork\dtpughst\d0319399\0108913-sht-plan.dgn	USER NAME = pughst	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE. 43 / HARLEM AVE. (OVER SANTARY & SHIP CANAL) LOCATION 2: SN 016-0991 EXISTING BRIDGE PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -			348	2012-0788P	COOK	36	33
MODELNAME\$	PLOT DATE = 11/9/2012	DATE -	REVISED -	SCALE: SHEET 5 OF 8 SHEETS STA. TO STA.		CONTRACT NO. 60V87			ILLINOIS FED. AID PROJECT	



**PAINT CROSS SECTION AT POINTS 16 AND 17**

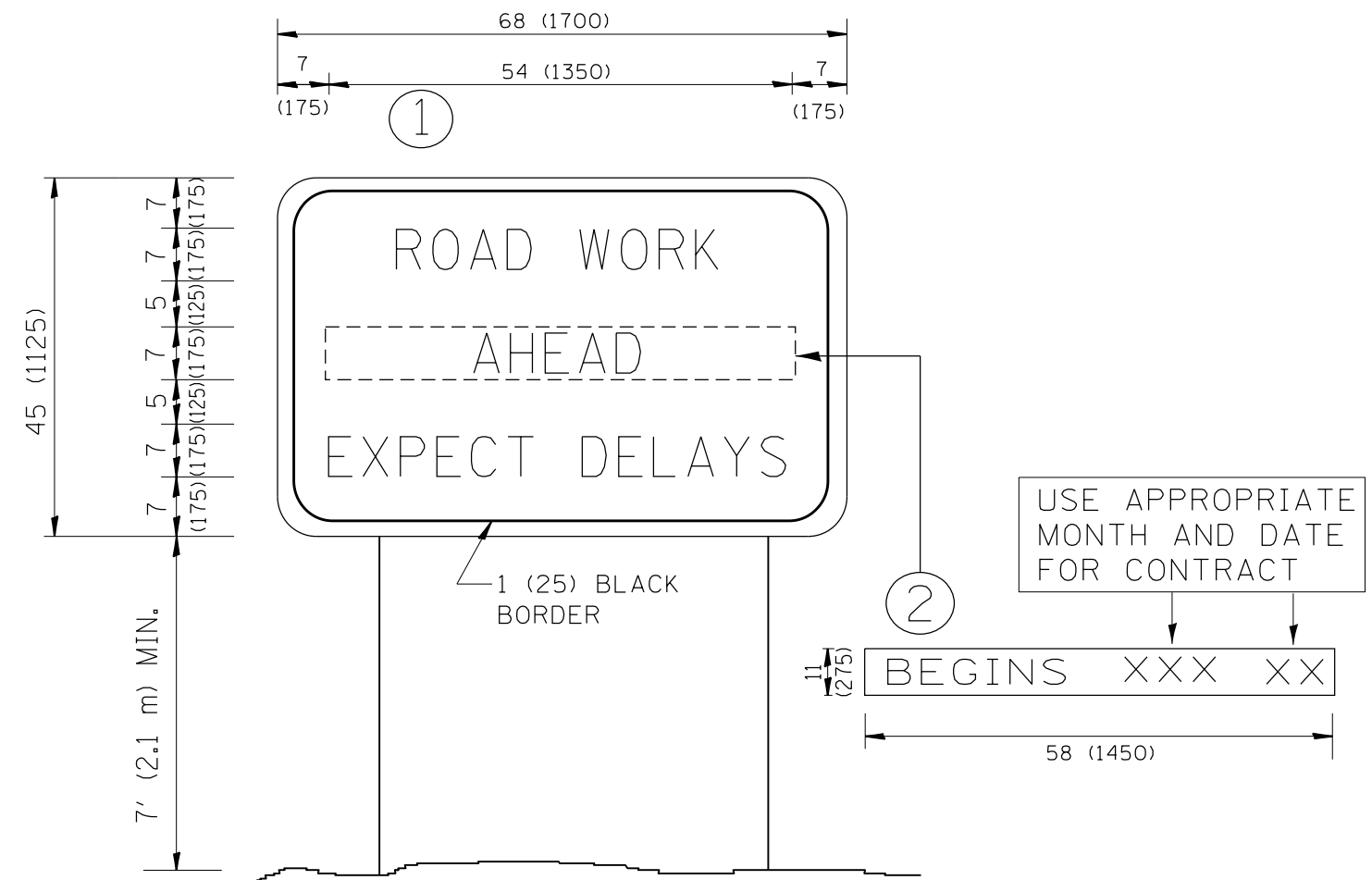
FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE. 43 / HARLEM AVE. (OVER SANTARY & SHIP CANAL)		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pwork\work\puidot\pughst\02319399\0108918.sht-plan.dgn	PLOT SCALE = 100.0000' / 1"	DRAWN -	REVISED -		LOCATION 2: SN 016-0991		348	2012-078BP	COOK	36	34
\$MODELNAME\$	PLOT DATE = 11/9/2012	CHECKED -	REVISED -		EXISTING BRIDGE PLAN		CONTRACT NO. 60V87				
		DATE -	REVISED -		SCALE:	SHEET 7	OF 8 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	





**N, S, W, E BASCULE TRUSS - COUNTERWEIGHT END**

FILE NAME =	USER NAME = pughst	DESIGNED -	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>	<p align="center">IL RTE. 43 / HARLEM AVE. (OVER SANTARY &amp; SHIP CANAL) LOCATION 2: SN 016-0991 EXISTING BRIDGE PLAN</p>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pwork\p1dot\pughst\00319399\0108913-sht-plan.dgn	PLOT SCALE = 100.0000' / 1"	DRAWN -	REVISED -			348	2012-078BP	COOK	36	35	
\$MODELNAME\$	PLOT DATE = 11/9/2012	CHECKED -	REVISED -			CONTRACT NO. 60V87					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



**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 = pughst	DESIGNED -	REVISED - R. MIRS 09-15-97
et:\pw\work\p\dot\pughst\d0319399\DistStd.dgn		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 11/9/2012	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. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	2012-0789BP	COOK	36	36
TC-22		CONTRACT NO. 60V87		
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				