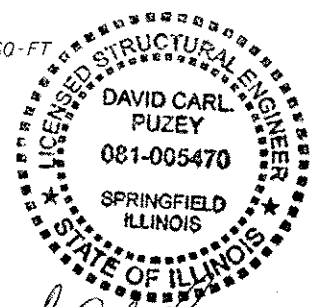


### TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE ≤ 5"	SQ. FT	593
STRUCTURAL REPAIR OF CONCRETE > 5"	SQ. FT	48
TEMP. SHORING & CRIBBING	EACH	14
STREAM GAUGE	EACH	1



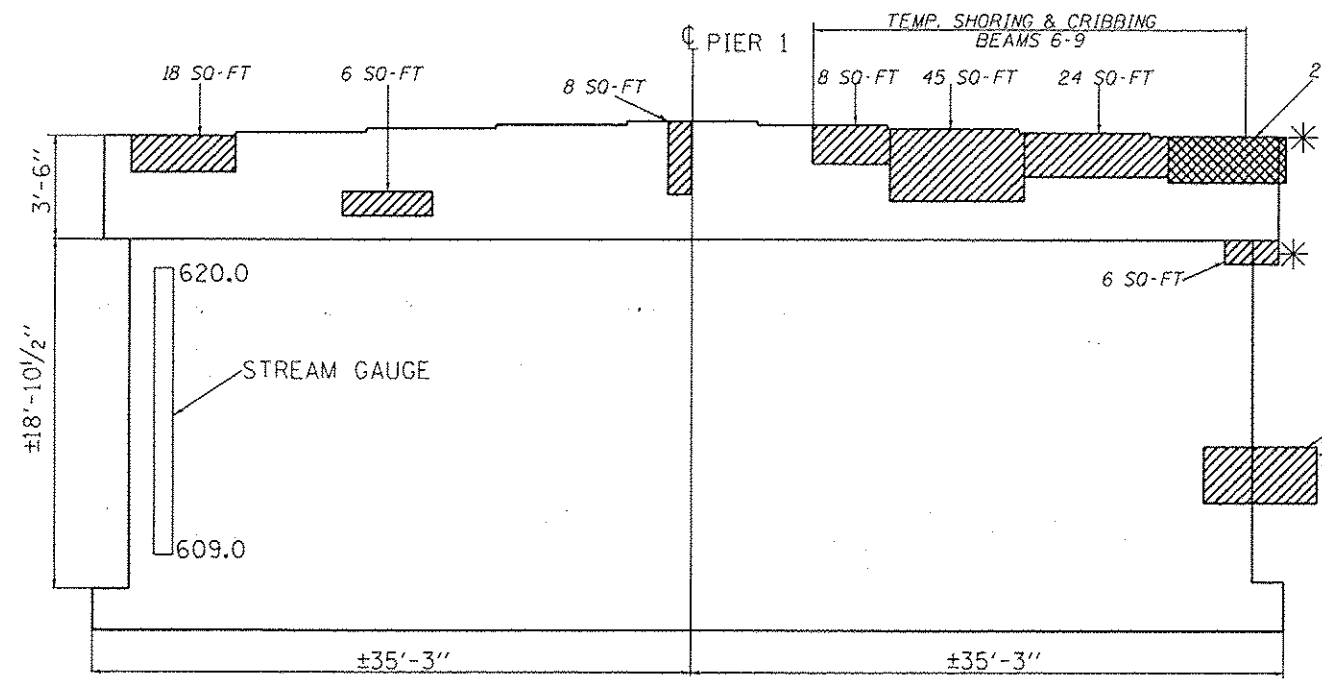
*David Carl Puzey 10/1/13 Expires 11/30/14*

### Pier No.1 BILL OF MATERIALS

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE ≤ 5"	SQ. FT	193
STRUCTURAL REPAIR OF CONCRETE > 5"	SQ. FT	24
TEMP. SHORING & CRIBBING	EACH	4
STREAM GAUGE	EACH	1

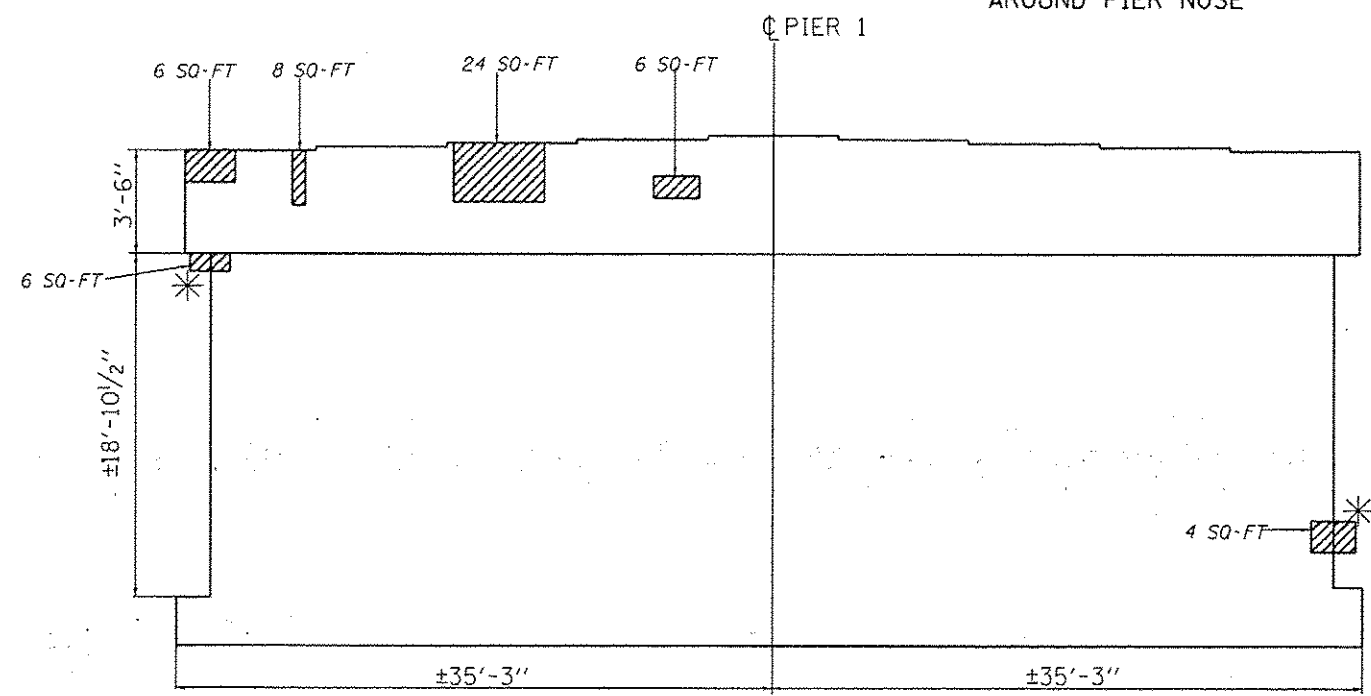
### REACTIONS

SPANS 1, 2 & 3 PIERS 1 & 2
R DL= 38.1 KIPS
R SDL= 9.2 KIPS
R LL= 39.5 KIPS
R IMP= 10.6 KIPS
TOTAL= 97.4 KIPS



SOUTH FACE

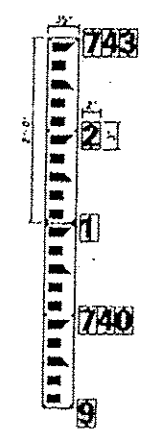
\* AROUND PIER NOSE



NORTH FACE

STRUCTURAL REPAIR OF CONCRETE ≤ 5"

STRUCTURAL REPAIR OF CONCRETE > 5"



**NOTES:**  
THE GAUGE PLATES SHALL BE PORCELAIN ENAMELED IRON PLATE GRADUATED IN FEET AND TENTHS, UNNUMBERED, AND 3 1/2" WIDE. GAUGE PLATES SHALL BE "WATERMARK" STYLE "E" OR APPROVED EQUIVALENT. EACH INDIVIDUAL NUMBER PLATE SHOULD BE A BLACK NUMERAL ON A 2"X3" WHITE PORCELAIN ENAMELED IRON PLATE. NUMBER PLATES SHALL BE "WATERMARK" STYLE "E" OR APPROVED EQUIVALENT. BOTH THE GAUGE PLATES AND NUMBER PLATES SHALL BE FASTENED DIRECTLY TO THE PIER WITH 1/4" DIAMETER, 1 1/2" LONG MASONRY SCREW WITH A HEX WASHER HEAD. THREE DIGIT ELEVATIONS TO BE INSTALLED AT THE TOP OF THE GAUGE AND AT EVERY ELEVATION ENDING WITH 0. AT ALL OF THE OTHER WHOLE ELAVATIONS, PLACE THE LAST DIGIT AS SHOWN IN THE EXAMPLE TO THE LEFT.

STREAM GAUGE DETAIL  
(EXAMPLE)

FILE NAME :	USER NAME : josephm	DESIGNED - JAM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 171 (FIRST AVE) OVER DES PLAINES RIVER SUBSTRUCTURE REPAIR PIER NO. 1	F.A.P. RTE. 372	SECTION 0606-BR	COUNTY COOK	TOTAL SHEETS 9	SHEET NO. 5
oi:\pwork\psidat\josephm\08349815\0139	3-shr-plan.dgn	DRAWN - JAM	REVISED -			CONTRACT NO. 60W88				
Default	PLOT SCALE = 1/8"=1'-0"	CHECKED - TLC	REVISED -			SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.				
	PLOT DATE = 8/27/2013	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				