

OFFICE OF THE FULTON COUNTY ENGINEER

9120 County Road 14
Wauseon, Ohio 43567-9669

Telephone: 419-335-3816

www.fultoncountyoh.com/engineer.htm

Fax: 419-335-1091

Frank T. Onweller, P.E., P.S.
County Engineer

Rod Creager, P.E., P.S.
Chief Deputy Engineer

May 30, 2023

CLARIFICATION 1

Bridge H7-2.4 Replacement

The following questions have been submitted:

Question #1: "Can you clarify if vibration monitoring will be done by others or if it is the contractor's responsibility to provide this?"

Answer: Fulton County shall provide vibration monitoring services. The contractor shall coordinate with Fulton County any and all information relating to the pile driving operations to facilitate the coordination of the vibration monitoring service.

Question #2: "Is the contractor to unload the existing beams, diaphragms, guardrail, etc. at the Fulton County Engineer's facility after delivering, or will Fulton County be responsible for unloading?"

Answer: The contractor shall be responsible to deliver all salvageable structural steel as detailed in the plans to the Fulton County Engineer's facility. This work shall include the unloading operations at the Fulton County Engineer's facility. The contractor shall bid this item accordingly.

Question #3: "Are existing plans available?"

Answer: Minimal existing plans are available and are attached to this Clarification.

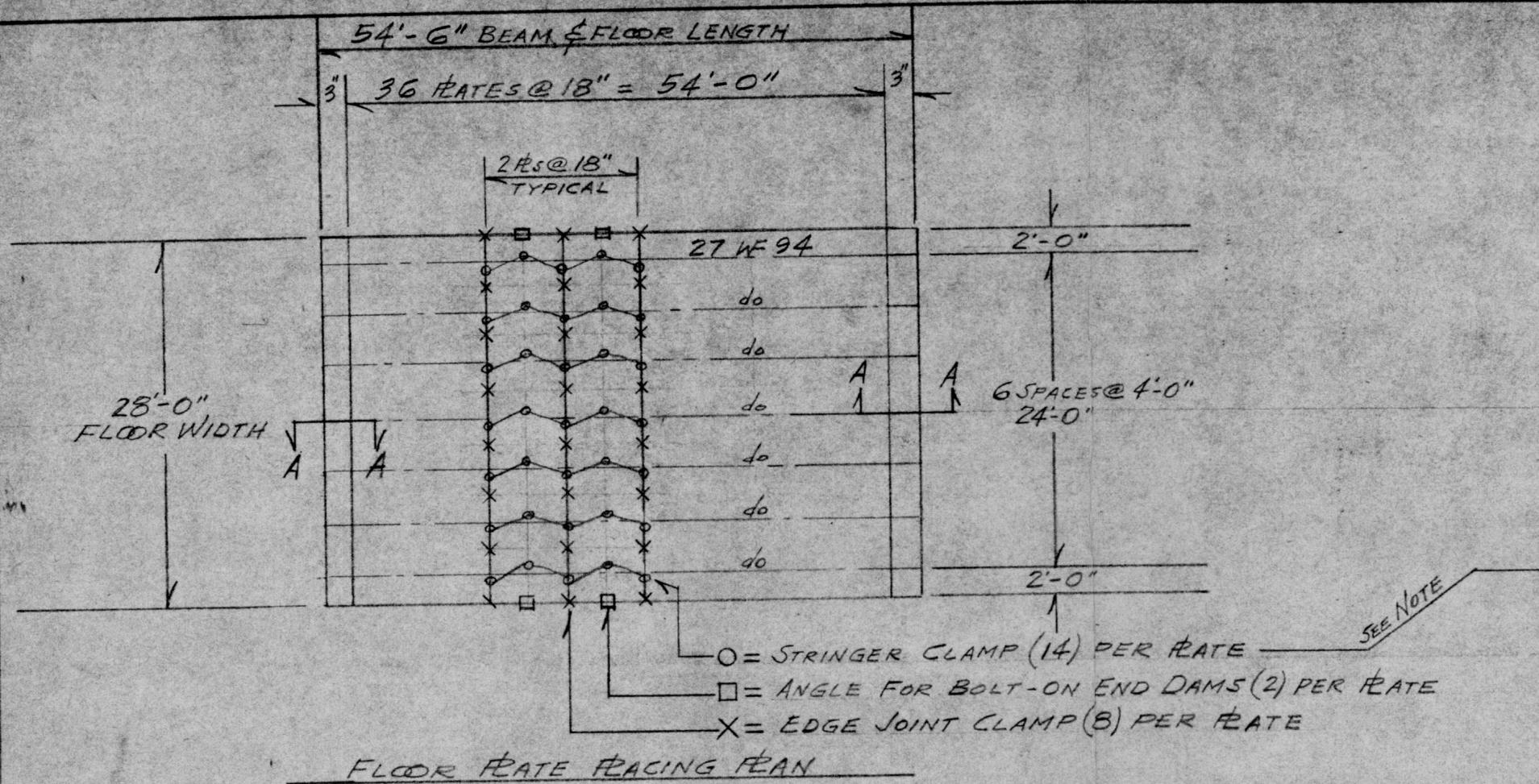
Question #4: "Can you please verify that the pile supplied and pile driven quantities are accurate on the bid tab?"

Answer: It appears that the bid tab quantities for both pile furnished and pile driven are slightly overestimated. However, please provide a unit price based on the bid tab quantities.

Question #5: "Are the prebored hole lengths included in the driven pile quantity?"

Answer: Yes, the pile length given is the total length of pile from 1' embedment into the concrete footing to the pile tip elevation as show on plan sheet 9 of 16.

End of clarification.



ERECTION TIPS:

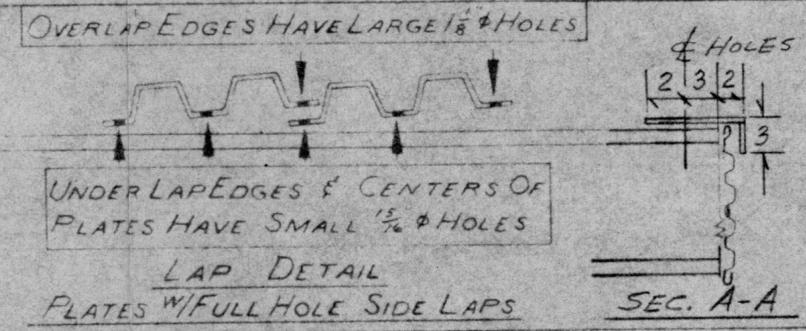
- ADVANCE PLANNING**
STUDY THIS DRAWING AND STANDARD REFERENCES BEFORE STARTING THE WORK.
- STOCKING MATERIALS**
CHECK YOUR U.S.F. MATERIALS WHEN RECEIVED. STOCK LIKE PARTS TOGETHER IN FILES EASILY ACCESSIBLE TO THE WORK SITE. DO NOT MIX U.S.F. MATERIALS WITH OTHER MATERIALS ON JOB.
- FLOOR LAYOUT**
ACCURATELY ESTABLISH A TRANSVERSE BASE LINE 90° FROM CENTERLINE OF BRIDGE AND FROM THIS LINE MARK OFF THE LOCATIONS FOR THE FLOOR PLATES ON THE OUTSIDE STRINGERS. STANDARD PLATES HAVE A LAYING WIDTH TOLERANCE OF APPROXIMATE 3/16 PLUS OR MINUS. USE THIS TOLERANCE TO CORRECT MINOR VARIATIONS IN LENGTH, IF REQUIRED.
- PLACING THE FLOOR PLATES**
LAY THE PLATES TO THE MARKS ESTABLISHED AND AS YOU PROCEED BE SURE TO KEEP THE ENDS TO A STRAIGHT LINE. YOU CAN USUALLY DO THIS BY MEASURING FROM THE OUTSIDE STRINGERS.
- USE PROPER TOOLS**
THE USE OF POWER DRIVEN WRENCHES AND RATCHET WRENCHES WILL SAVE YOU TIME AND MONEY ON CLAMP OR STUD ATTACHED FLOORS.
- FASTENING END PLATES**
INSURE YOUR WORK BY GIVING SPECIAL ATTENTION TO THE FASTENING OF THE PLATES AT THE ENDS OF THE SPANS WHERE IMPACT IS GREATEST. IN THE CASE OF CLAMP ATTACHED FLOORS, USE THE EXTRA CLAMPS FURNISHED IN THE END PLATES.

STANDARD REFERENCES, ETC.

DRAWING NO.	DESCRIPTION
D12-04(1)	3x9 PLATE, TYPICAL
D12-04(2)	3x9 PLATE, WELD ATTACHED
D12-04(3)	3x9 PLATE, STUD ATTACHED
D12-04(4)	3x9 PLATE, CLAMP ATTACHED

MANUAL 216 FLOORING

FLOOR ACCESSORIES	PART NO.	CLAMPS		END DAMS		WELD STUDS	TOTALS
		STRINGER	EDGE	BLT ON	LOOSE		
CLAMP ANGLE FOR FLANGE	14-353	554					554
BOLTS, HEX HEAD 3/4 x 2				370			370
BOLTS, HEX HEAD 3/4 x 3		554					554
WASHER, ROUND FLAT 3/4		554	370				924
WASHER, LOCK 3/4							
NUT, HEX 3/4		554	370				924
END DAM ANGLE 2x2x1/2x2	14-313			80			80
END DAM PLATE 3x7x12'-0"	14-315			8			8
" " " " 11x8'-0"				2			2
BOLT, OVAL NECK 5/8 x 1 1/2	98-1801			84			84
NUT, HEX 5/8	98-1803			84			84
STUD, WELD 1/2 x 1 3/4 w/ FERRULE	98-3042						
WASHER, 2x2x1/2 w/ 1/16 HOLE	14-317G						
WASHER, 1 1/2 x 1 1/2 x 1/2 w/ 1/16 HOLE	14-316G						
WASHER, ROUND FLAT 1/2							
NUT, HEX 1/2							



QUANTITY	MARK	DESCRIPTION
36 Pcs.	31-905 -1	FLOOR PLATES 18"W x 28'L
2 Pcs.	31-905 -2	END FINISH PLATES 7" W x 28' L PER SEC. A-A

FLOOR PLATES GAUGE 5 CORRUGATION 3x9 COATING GALV.

QUANTITY	DESCRIPTION	GA TYPE COATING
LF	Pcs. x 12'-6"	
Pcs	TERMINALS	
Pcs	POST	
Pcs	5/8 x POST BOLTS	
Pcs	5/8 x POST BOLTS	
Pcs	5/8 x 1/4 SPLICE BOLTS	
Pcs	5/8 HEX NUTS	
Pcs	5/8 ROUND WASHERS	
		GA TYPE COATING

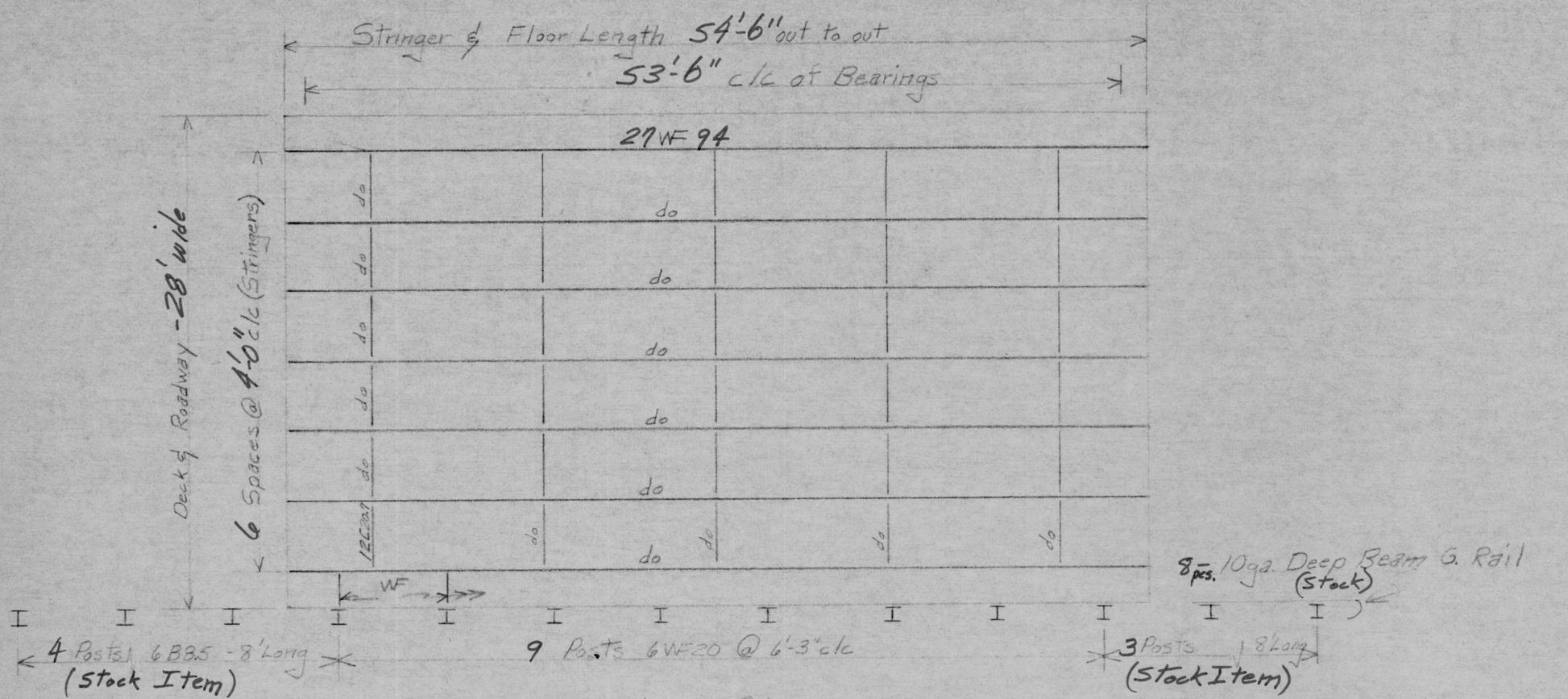
ENTERED as NUMBER
 ENG01192

WELDING SHALL BE IN ACCORDANCE WITH U.S.F. STANDARDS

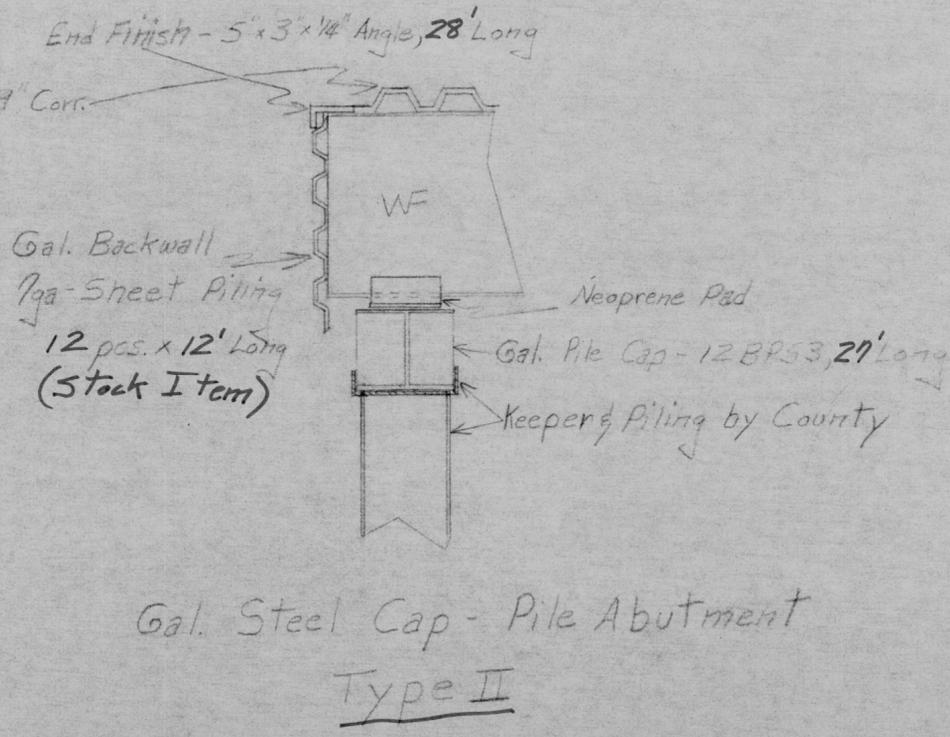
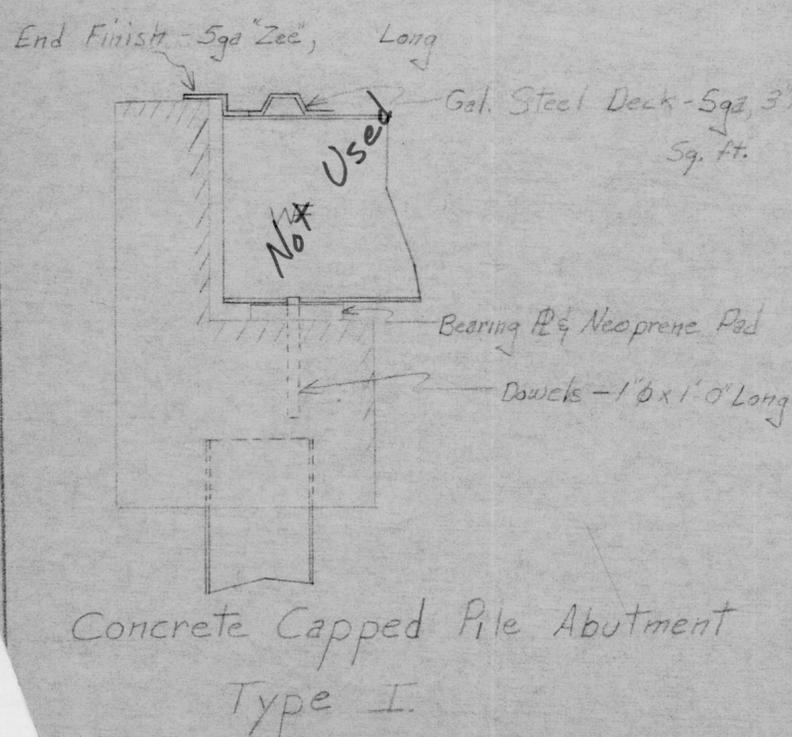
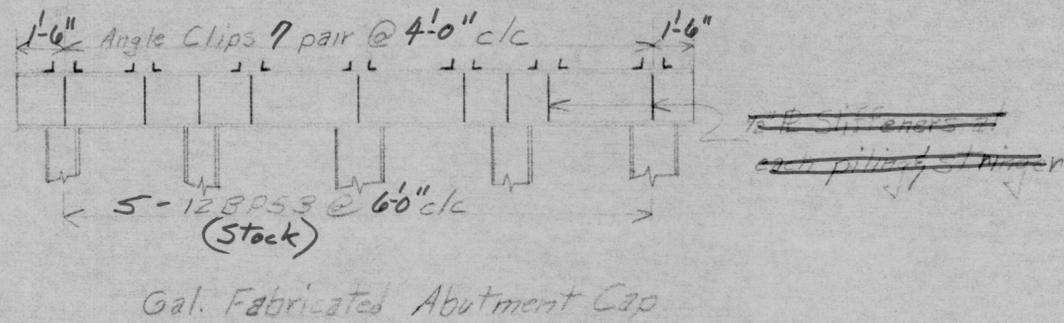
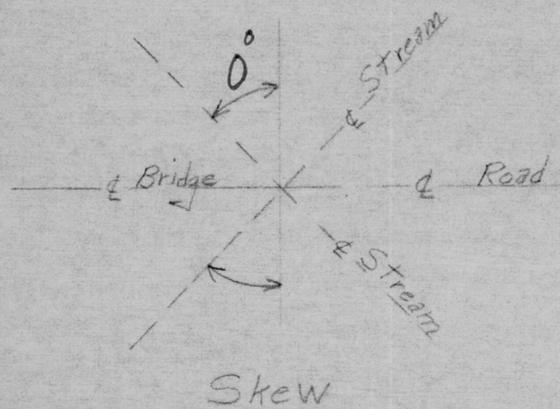
PRIORITY No. 5

UNITED STEEL FABRICATORS A DIVISION OF ALLEN ELECTRIC & EQUIPMENT CO. WOOSTER, OHIO		DRAWN BY: G DATE: 3-4-70
STRUCTURAL-PLATE FLOOR FOR FULTON COUNTY BR. [REDACTED] 28' W x 54'-6" L OVER SWAN CREEK		CHECKED BY: [Signature] SCALE: NONE ORDER NO: 31,90 DWG NO: 31-905 E1
DATE	REVISION	

H7-2.4



Framing Plan



BILL OF MATERIAL

MARK	PIECES	MEMBER	FEET INCHES	REMARKS
Superstructure				
7	27	WF94	54'6"	Stringers
36	12	E20.9	3 10 1/2	Diaphragms
18	6	WF20	4 3 1/2	G. Rail Posts
18	27	WF84	1 0	Bracket
36	3/8"x6" R		2 13/4	"
72	3/8"x6" R		1 3	Conn. R
Stock	670	A325 Bolts & Nuts	2	Galv.
Bearings				
2	12	BP53	27 0	Galv. Abut. Cap
28	2"x2"x1/2" L's		1 0	"
36	5"x1/2" R		0 11/8	Stiffeners
14	1/2"x12" Neoprene			Bearing Pad
Flooring System				
		3"x9"x5ga.	1526 Sq. ft.	Galv.
5 Stock	550	Clamp Angles		Flooring
	550	3"x3/4" Bolts, nuts, Washers		Galv.
	310	2"x3/4" Bolts, nuts, Washers		"
	90	Angle Clips		End Dam
	90	1 1/4"x 9/8" Gal. Oval Bolt Nuts		" "
2 (sides)		3/2"x 1ga	54'6"	End Dam
2		5"x3"x1/4" L's	28 0	End Finish

Guard Rail System - Stock

Backwall - Stock

BRIDGE ORDER

FULTON COUNTY, OHIO
 All Galvanized Steel Bridge Design
 Bridge Number ---- ~~2011~~ H 7-2.4
 Location ---- Bad Swan Creek
 Date ---- 1/30/70
 Tentative Construction Date Aug. 10, 1970

GREGORY
BRIDGE COMPANY, INC.

Phone - (216)
454-7251

P. O. Box 178
Canton, Ohio 44706

QUOTATION

70-10

Date: March 17, 1970

Subject: ~~Structural Steel~~
Br. No. ~~7-2.4~~

#7-2.4

Location: Fulton County, Ohio

TO:

Fulton County Board of Commissioners
Attn: Edwin R. Wyrich, Co. Engr.
Court House
Wauseon, Ohio 43567

The GREGORY BRIDGE COMPANY, INC. proposes to furnish the following, subject to acceptance, within 30 days. **Fabricated Structural Steel, Galvanized after Fabrication in accordance with ASTM A-123.**

- 7 Pcs. 27 WF 94 x 54' 6" Beam with diaphragm plates.
- 30 Pcs. 12 C 20.7 x 3' 10 $\frac{1}{2}$ " Diaphragms.
- 18 Pcs. 6 WF 20 x 3' 11" Railing Post.
- 18 Pcs. 27 WF 84 x 1' 0" Post brackets with stiffeners.
- 2 Pcs. 12 BP 53 x 27' 0" Bearing caps with keeper angles and stiffeners.

Estimated total weight = 47,100 lbs. @ \$21.00 CWT	=	\$ 9,891.00
600 Pcs. 3/4" H.D. Galv. A - 325 Bolts with nuts	=	150.00
14 Pcs. 1/2" x 12" x 1' 0" Neopreme pads	=	112.00
Freight to job site	=	<u>340.00</u>
Total		\$10,493.00

Applicable Sales, Use or similar Taxes, unless specifically included, and increases in Transportation charges, will be added to the above price.

Terms: BUYER AGREES TO MAKE PAYMENT FOR EACH SHIPMENT OF MATERIALS WITHIN THIRTY (30) DAYS FROM DATE OF SHIPMENT. SEE OTHER SIDE FOR ADDITIONAL TERMS AND CONDITIONS.

No discount allowed from above prices which are F.O.B. **our shop with motor freight allowed to job site.**

Shipment: We will endeavor to begin shipment of materials within **8 wks., subject to mill delivery** after our Home Office approval and acceptance of this proposal and receipt at Home Office of all approved drawings, details, and other information necessary for performance, which buyer agrees to furnish promptly. All contracts, amendments and proposals are subject to approval of and acceptance by our Home Office at Canton, Ohio.

Accepted _____
By _____
At _____ Date _____

GREGORY BRIDGE COMPANY, INC.

Signature of
Representative
making proposal

W. M. Cheatham
W. M. Cheatham
Vice-president & Gen. Manager

SHIPPING ORDER

UNITED STEEL FABRICATORS DIV.
 ALLEN ELECTRIC & EQUIPMENT CO.
 ORRVILLE, OHIO 44667



2PO

OUR ORDER NO.

Invoice No.

31,905

Shipping and Invoice Date

3/5/70

Weight

19,896#

CUSTOMER ORDER NO. DATE

Shipped Via

Truck

PREPAID COLLECT

X

Shipment No.

Terms Net 30 days F.O.B. Wooster

To
 FULTON COUNTY COMMISSIONERS
 c/o Edwin Wyrick, Co. Engr.
 Office of the County Engineer
 Wauseon, Ohio 43567

Ship to
 Fulton County Highway Department
 c/o Edwin Wyrick, Co. Engr.
 County Yard
 Ottokee, Ohio

Item Number	DESCRIPTION	Part or Mark Number	Quan. Ord'd This Release	Unit Price	Quan. Back Ord'd This Release	Quantity Shipped	Amount
	HOT DIP GALVANIZED U.S.F. STRUCTURAL PLATE BRIDGE FLOORING W/3" x 9" CORRUGATIONS						
	Fabricate for erection by clamp method per USF Dwg. No. 31-905-E1						
1.	5 Ga. Plates 18" wide x 28' long	31-905-1	36 Pcs 1512 SF	\$3.66			\$ 5,533 92
	5 Ga. Special End Finish Angles 7"x 3"x 28'	31-905-2	2 Pcs 56 LF	3.00			168 00
	USF to notify customer prior to shipment so arrangements can be made to receive and unload material.						\$ 5,701 92
	PROJECT: Bridge # ^{H72.4} over Swan Creek Fulton County, Ohio						Tax Exempt Political Unit
	Ship w/USF Order No. 31,906 during April 1970.						

ACKNOWLEDGMENT

This order has been placed on our fabricating schedule, and shipment is expected to leave our plant about April - 1970

THANK YOU

H 9-2.4
 Rd. "H" of Bad Cr

Piling Depth Blows Cut-off
 1-1 31-32 48 33' 8"

2 20-29 → 40

24-28 → 36

28-29 → 45

29-30 → 40

30-36 → 34+36

36-38 → 39+40

38-39 → 42

3 31-32 44 32' 4"

4 31-32 44 32' 6"

5 26-29 42 28' 6"

5 29-28 50

1 25-26 42 29' 6"

2 26-27 42

2 30-31 46 32' 4"

3 31-32 43

3 28-29 40 30' 6"

3 29-30 42

4 25-26 44 29' 6"

4 26-27 45

5 26-27 42

5 27-28 49 29' 4"

West Abut

5 I 6' I 6' I 6' I 6' I 6' N
 1 I 6' I 6' I 6' I 6' I 6' N

\$

30T Capacity
 (41 Blows Req'd)

May 14, 1992
 TNS

EAST Abut.

5 I 1 I 2 I 3 I 4 I 5 N

May 19, 1992
 XNS