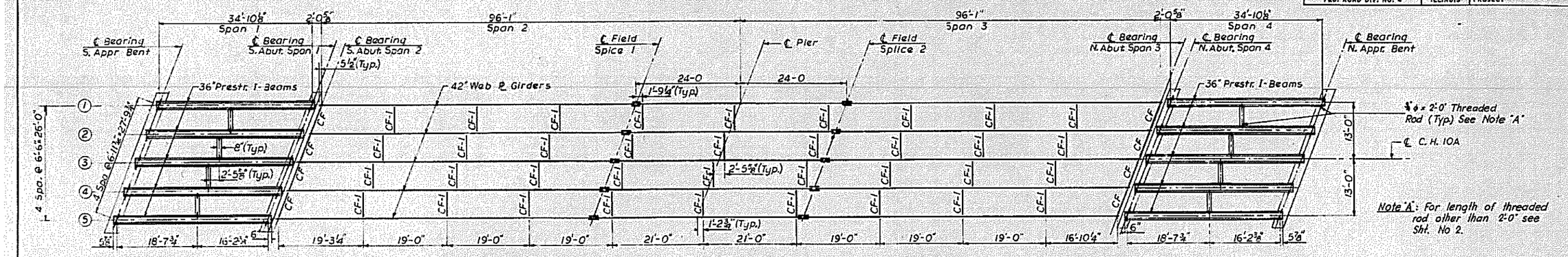
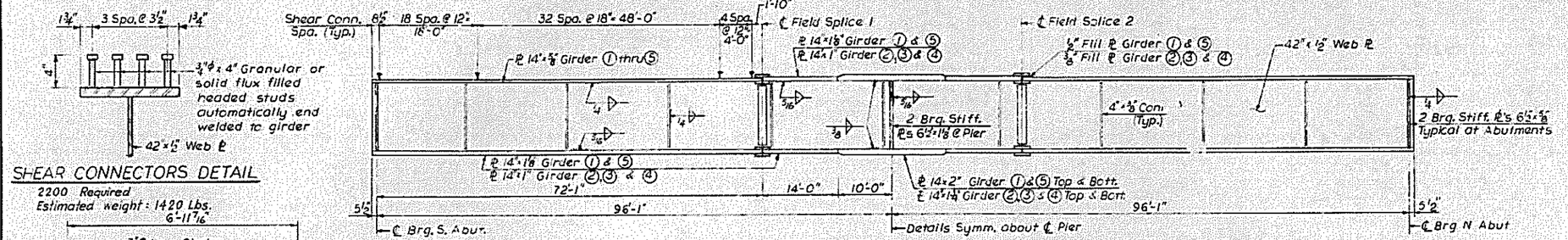
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—64	82,14(1HB)	ST. CLAIR CLINTON	37	13
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



Note "A": For length of threaded rod other than 2'-0" see Sht. No 2.

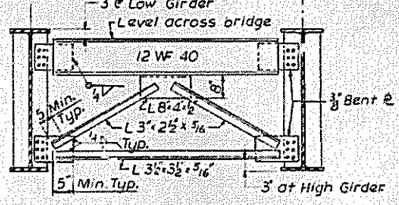
PLAN



ELEVATION

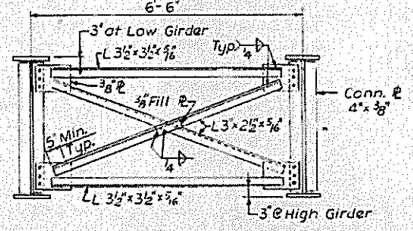
SHEAR CONNECTORS DETAIL

2200 Required
Estimated weight: 1420 Lbs.



TYPICAL CROSS FRAME-CF

8 Required



TYPICAL CROSS FRAME-CF-1

36 Required

TABLE OF MOMENTS AND SHEARS (Interior Girder)

	SPAN 1 & 4		SPAN 2 & 3								
	Moment(Ft.k)	Shear (kips)	Moment (Ft. kip)		Reaction(Kips)		Shear (Kips)				
	℄ Span	Abutment	¼ Pt. Span	Pier	Abutment	Pier	Abutment	¼ Pt. Span	½ Pt. Span	¾ Pt. Span	Pier
D.L.	158	17.5	436	1001	26.6	92.7	—	—	—	—	—
S.D.L.	47	5.4	225	345	11.5	40.0	11.5	4.2	3.8	11.5	20.0
L.L.	160	23.4	533	431	28.1	45.8	28.1	20.8	16.5	23.2	29.9
Imp.	48	7.0	120	97	6.3	10.4	6.3	4.7	3.7	5.2	6.8
Total	413	53.3	—	1874	72.5	188.9	45.9	29.7	24.0	39.9	56.7

TOP OF WEB ELEVATION

(For Fabrication only)

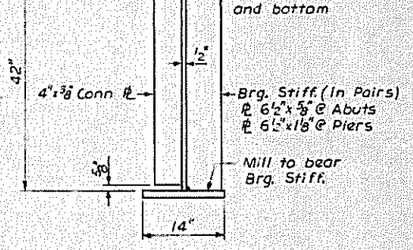
	Girder ①	Girder ②	Girder ③	Girder ④	Girder ⑤
℄ Brg. S. Abut.	471.57	471.66	471.68	471.63	471.50
℄ Splice 1	471.72	471.66	471.90	471.86	471.72
℄ Brg. Pier	471.72	471.86	471.90	471.86	471.72
℄ Splice 2	471.72	471.86	471.90	471.86	471.72
℄ Brg. N. Abut.	471.50	471.63	471.68	471.66	471.57

GIRDER PROPERTIES

(INTERIOR)

Steel Section	
Is	13230 in^4
Srs	544 in^3
Sbs	681 in^3
Composite Section	
Ic	31,200 in^4
Src	3310 in^3
Sbc	912 in^3

Section modulus at Pier = 1166 in^3



TYPICAL SECTION

NOTES:
For Field Splice Details see Sheet No. 8

DESIGNED BY S. F.
DRAWN BY V. B.
CHECKED BY S. F.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

FRAMING PLAN AND STEEL DETAILS

C.H. 10A OVER F.A.I. ROUTE 64

STATION 1458+82.34

F.A.I. RT. 64 ST. CLAIR & CLINTON CO. SECTION 82,14(1HB)

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 6 OF 16

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FRAMING PLAN AND STEEL DETAILS STRUCTURE NO. 014-0038
		DRAWN -	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -		
	PLOT DATE = $DATE$	DATE -	REVISED -		

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82.14-(1HB)-P	CLINTON	29	7
		CONTRACT NO. 76063		

FED. ROAD DIST. NO. , ILLINOIS FED. AID PROJECT