FOR INFORMATION ONLY

TOTAL SHEETS	SHEET NO.
57	39

SHEET NO. 6 OF 24 SHEETS

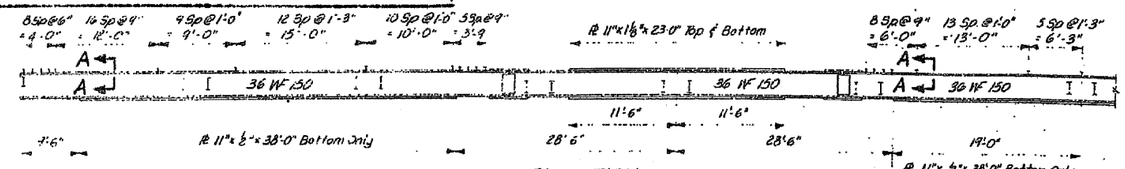
ROUTE	SECTION	COUNTY		PROJECT
FA.S. 1539	37.Q	MACON	66	21
FED. ROAD DIST. NO.	STATE			S-1539-(1)

TOP OF BEAM ELEVATIONS *

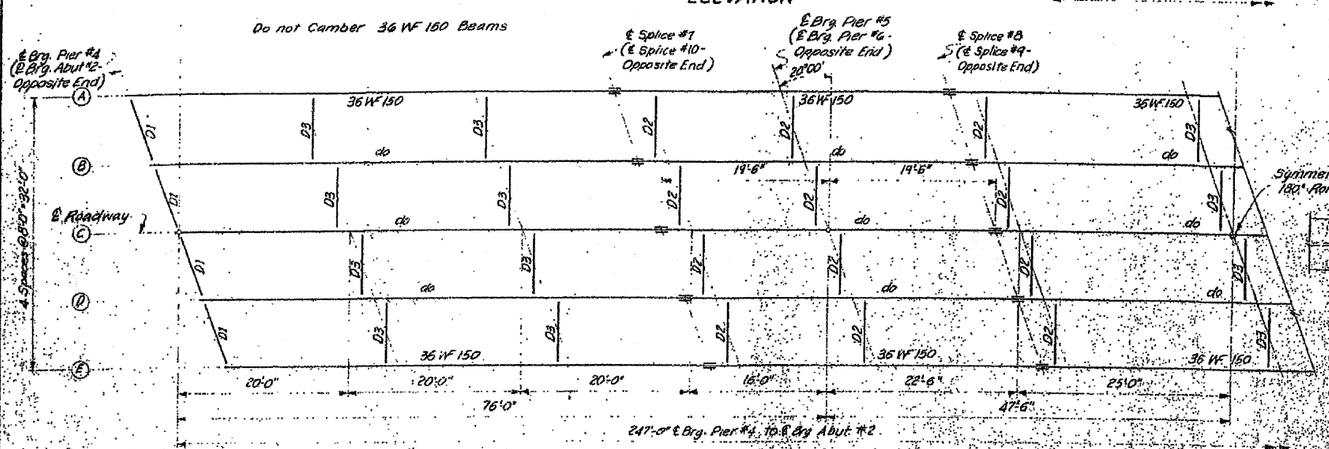
LOCATION	BEAMS A	B	C	D	E
℄ Bearing Pier #4	606.71	606.85	606.89	606.82	606.66
℄ Splice #7	606.47	606.61	606.65	606.59	606.42
℄ Bearing Pier #5	606.39	606.53	606.57	606.50	606.34
℄ Splice #8	606.31	606.45	606.49	606.42	606.26
℄ Splice #9	606.07	606.21	606.26	606.19	606.03
℄ Bearing Pier #6	605.99	606.13	606.18	606.11	605.94
℄ Splice #10	605.91	606.05	606.09	606.02	605.86
℄ Bearing Abut. #2	605.67	605.81	605.86	605.79	605.62

* These elevations are theoretical top of WF elevations and are to be used for fabrication of structural steel. They do not include any allowance for deflection.

ELEVATION



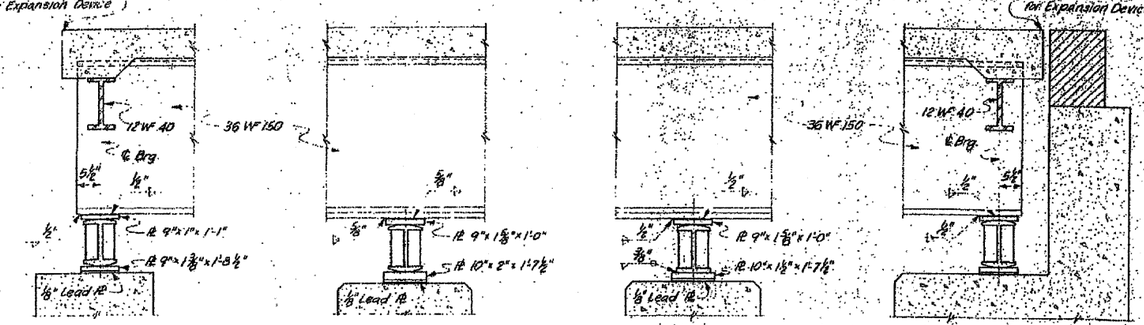
Do not Camber 36 WF 150 Beams



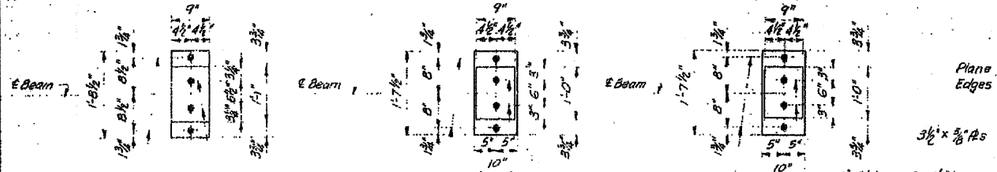
PLAN - STRUCTURAL STEEL LAYOUT

See Sheet 8 of 24 For Expansion Device

See Sheet 9 of 24 for Expansion Device



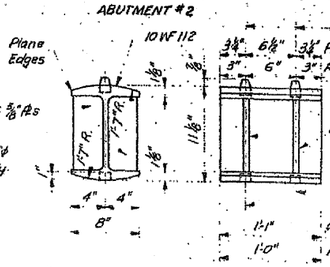
Bearings at Abut #2 are to be the same as bearings on Pier #4



PIER #4 PIER #5 PIER #6

PLAN - BEARING PLATES

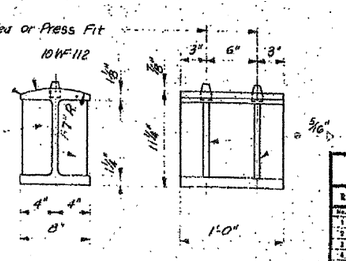
ABUTMENT #2



PIER #4, PIER #5 AND ABUTMENT #2

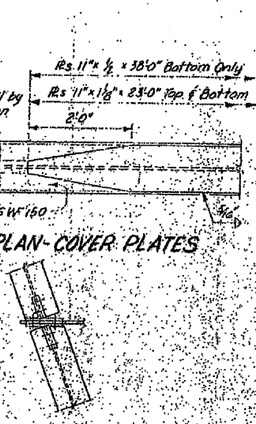
PINTLE

1¼"ϕ Pintles - Threaded or Press Fit

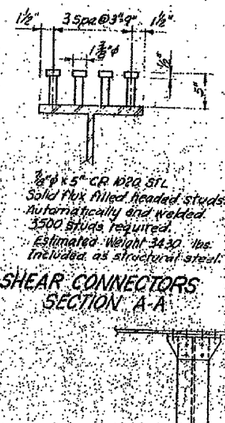


BEARINGS

PIER #6

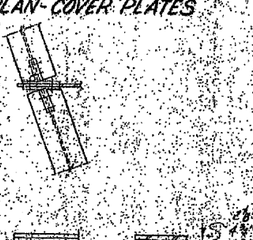


PLAN - COVER PLATES

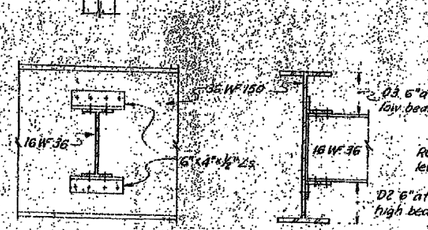


⅞"ϕ x 5" CR 1020 STL Solid Flux Filled headed studs. Automatically end welded. 3500 studs required. Estimated Weight 3430 lbs. Included as structural steel.

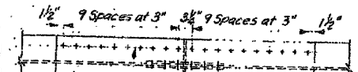
SHEAR CONNECTORS SECTION A-A

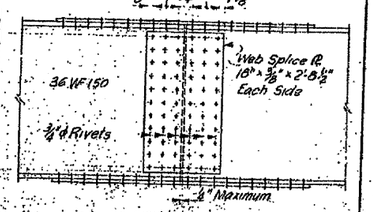


DIAPHRAGM D1



DIAPHRAGMS D2 & D3





SPLICE

Estimated Weight of Structural Steel in beam spans = 252,100 lbs. (Includes 3430 lbs. of shear connectors. Excludes bearings & expansion devices.)

See sheet 7 of 24 for: Summary of Design Moments, Reactions and Shears.

REVISIONS		
No.	DATE	INITIALS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

STRUCTURAL STEEL

MACON COUNTY

F.A.S. RT. 1539 SECTION 37 Q

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

DRAWN BY	DATE
DDL	3/63
CHECKED BY	DATE
WLC	3-63
BOOK NUMBER	
PROJECT NO.	
SHEET NO.	

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