FHWA REGION	STATE	PROJECT	
5	OHIO		

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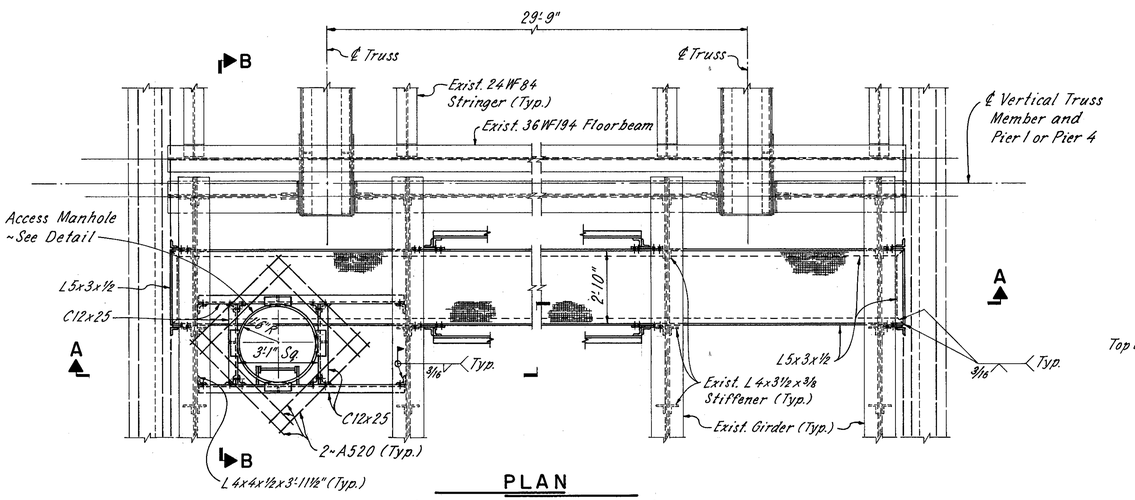
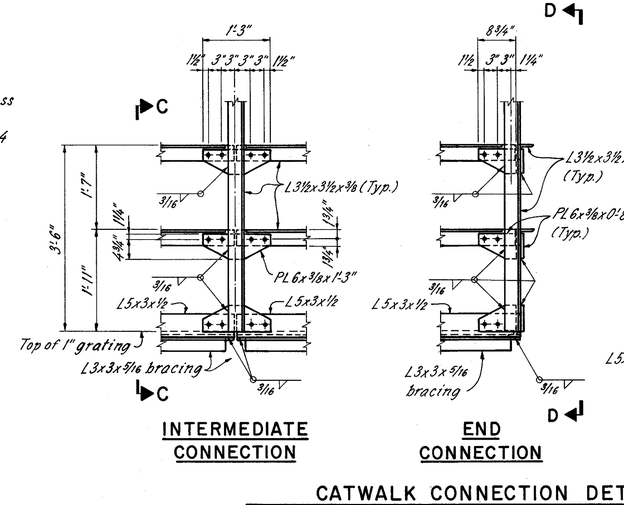
LAKE COUNTY
LAK-90-23.42 (L&R)

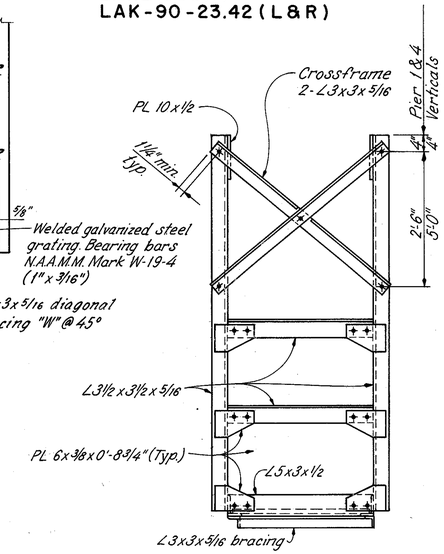


PLAN

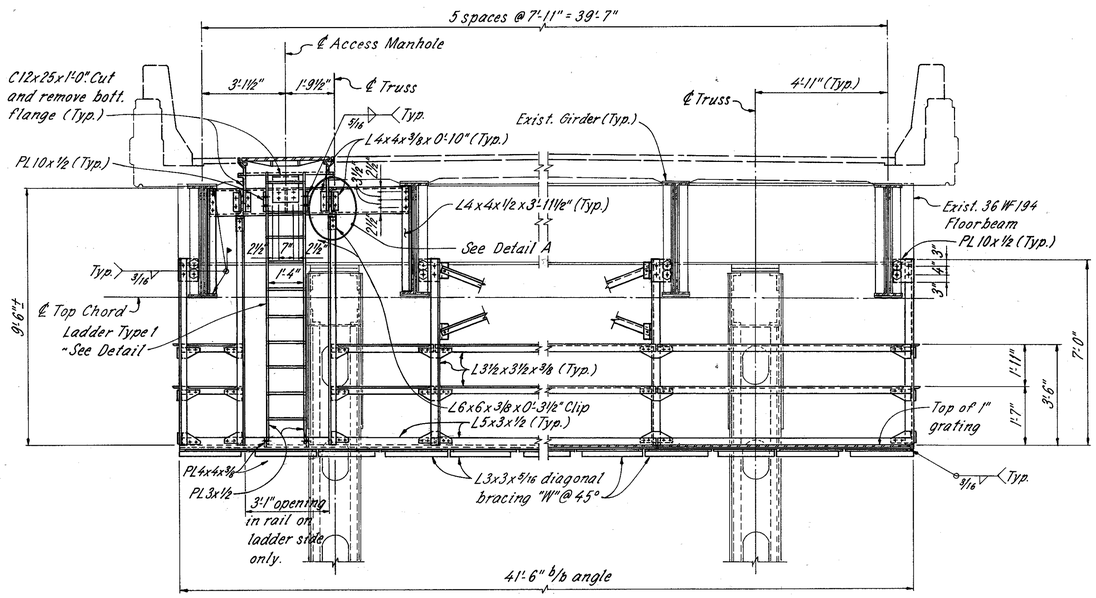
(WITH DOWNSPOUT REMOVED)
LOUO(L) PIER 1 & LO'UO'(R) PIER 4 - AS SHOWN
LO'UO'(L) PIER 4 & LOUO(R) PIER 1 - OPPOSITE HAND



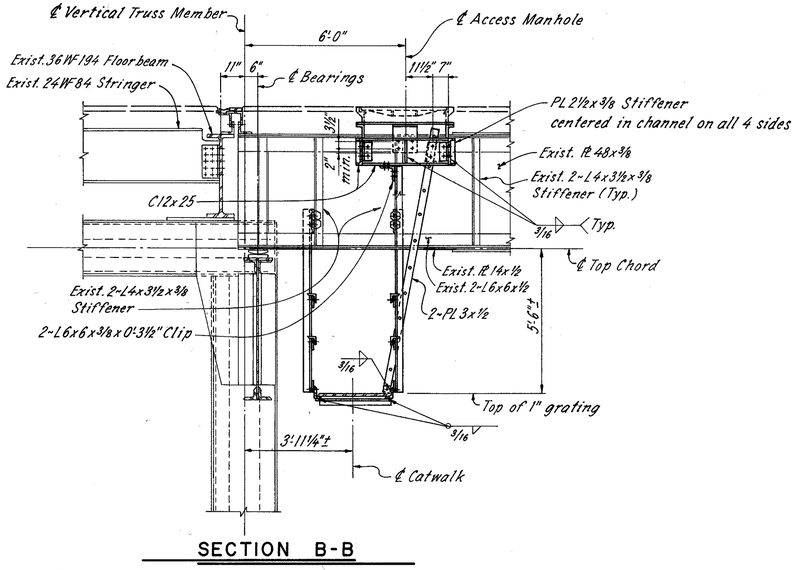
CATWALK CONNECTION DETAILS



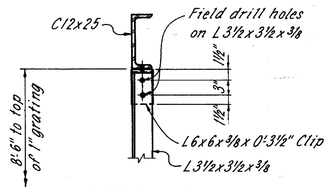
VIEW D-D



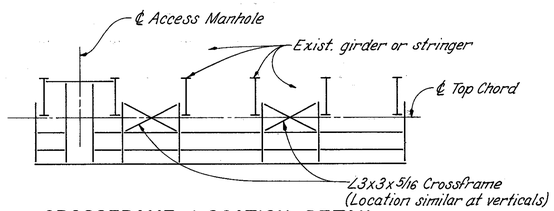
SECTION A-A



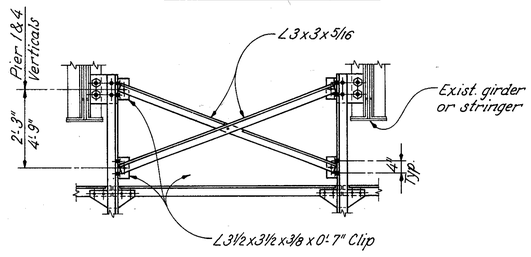
SECTION B-B



DETAIL A



CROSSFRAME LOCATION DETAIL



CROSSFRAME DETAIL

NOTES

BOLT LEGEND: See sheet 2 / 19 .

NOTATION: L--Left Bridge (West bound)
R--Right Bridge (East bound)

CONNECTION BOLTS shall be ¾"ϕ galvanized A325 high strength bolts. Minimum 2 bolts per member per connection.

ACCESS MANHOLE DETAIL: See sheet 12 / 19 .

LADDER DETAIL: See sheet 12 / 19

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RICHLAND ENGINEERING LIMITED
MANSFIELD, OHIO

CATWALK DETAILS AT PIERS 1&4

SUPERSTRUCTURE
BRIDGE NO. LAK-90-2342(L&R)
OVER THE GRAND RIVER

LAKE COUNTY I.R.90

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
DHT	KH	KH	DT	DAP	9/13/89	

M2005