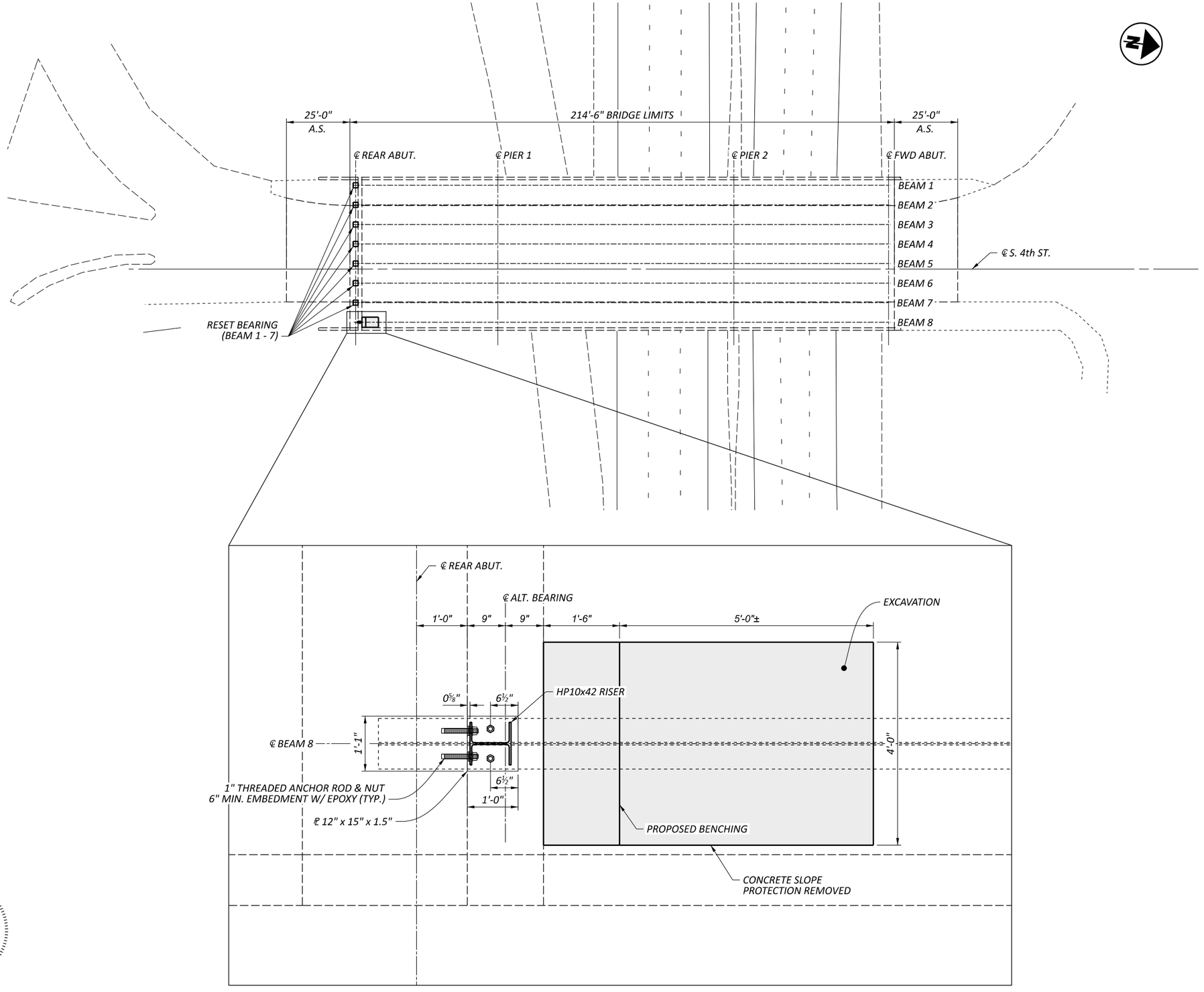


BEAM 8 REPAIR LOCATION PLAN VIEW

HORIZONTAL SCALE IN FEET
0 10 20 40

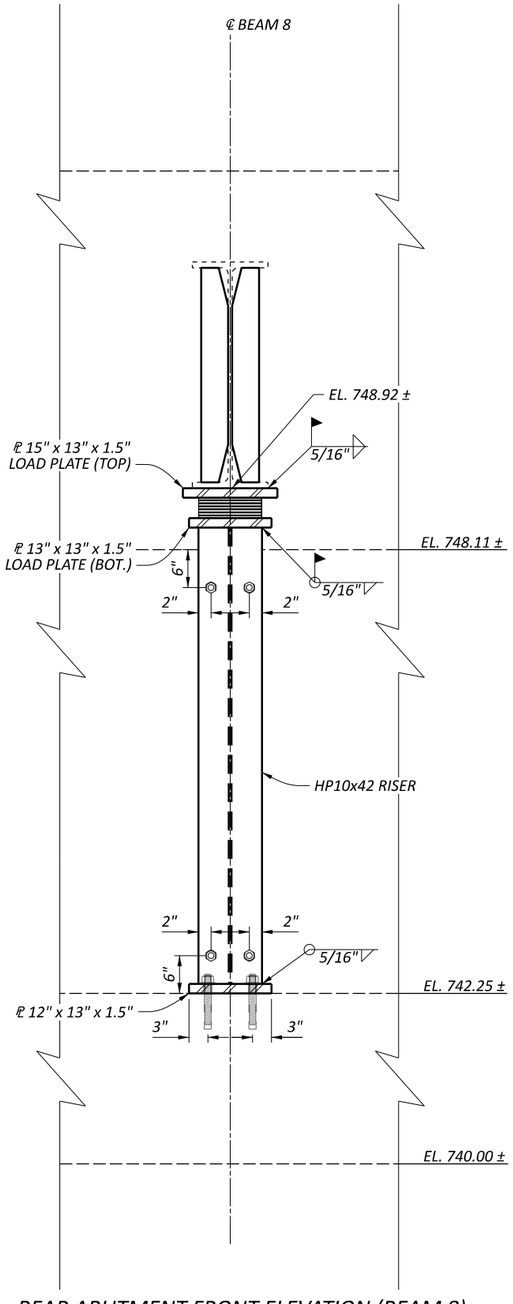
BEARING DETAIL
BRIDGE NO. FRA-23-1075
OVER I.R.70

FRA-23-1075

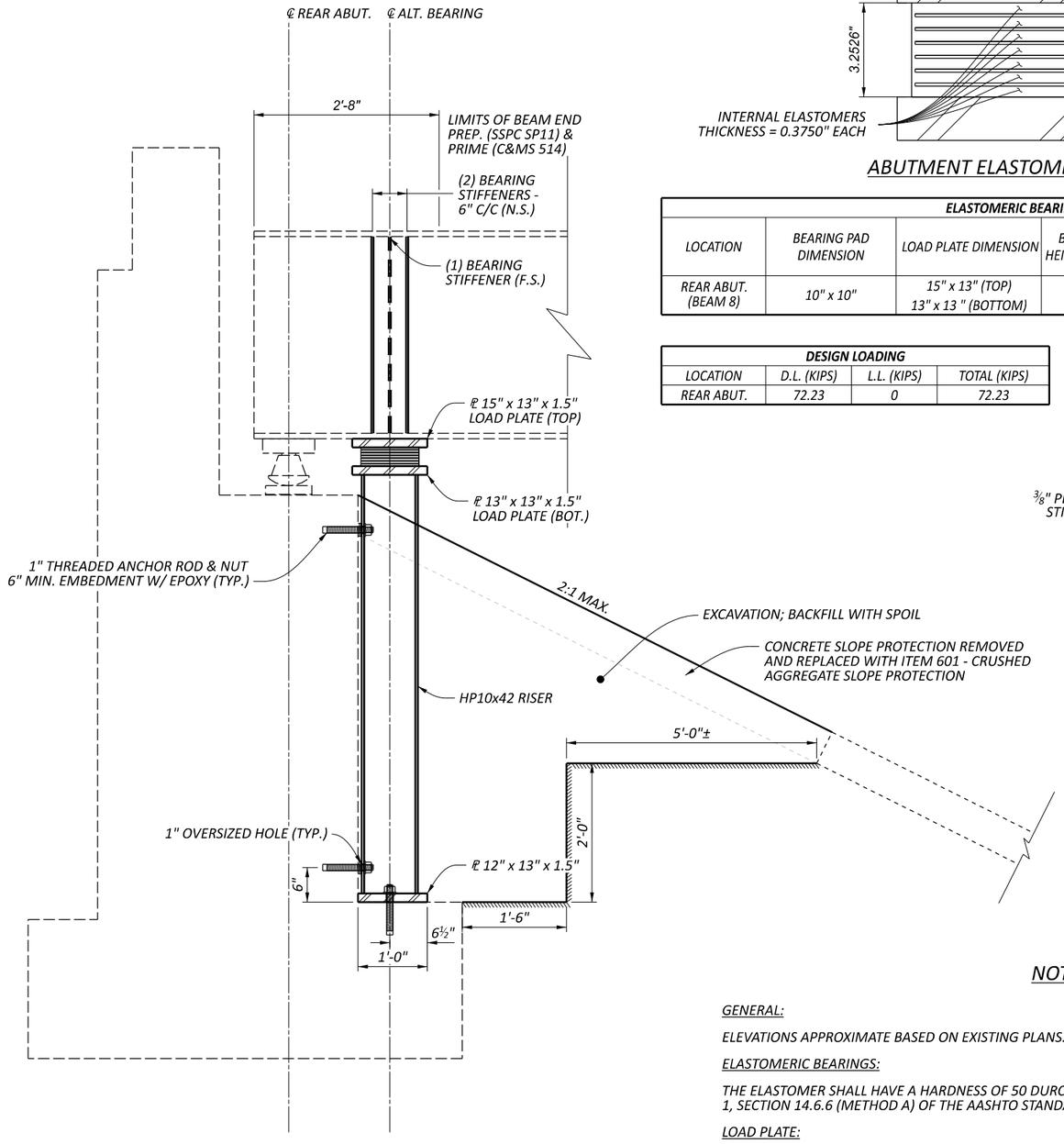
MODEL: PLAN - SHEET PAPERSIZE: 17x11 (in.) DATE: 3/18/2024 TIME: 1:24:10 PM USER: jhipp
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\05 Additional Projects\District 06\Franklin\FRA-70-1429\400-Engineering\Structures\SFN_2500639\Sheets\FRA-70-1429_SFN_2500639_SM001.dgn

STATE OF OHIO
JEFFREY P. HIPP JR.
E-79642
REGISTERED
PROFESSIONAL ENGINEER
MARCH 18, 2024

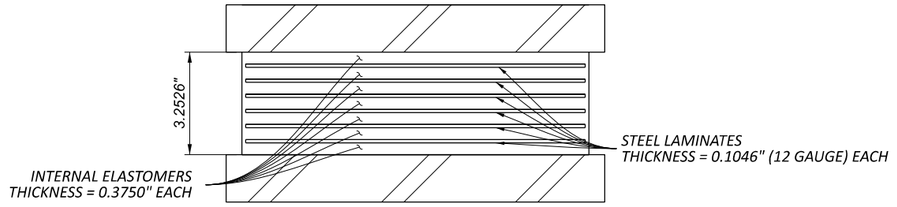
SFN	2500639
DESIGN AGENCY	
DESIGNER	JMB
CHECKER	XXX
REVIEWER	XXX MM-DD-YY
PROJECT ID	NO PID
SUBSET	0
TOTAL	0
SHEET	P.1
TOTAL	2



REAR ABUTMENT FRONT ELEVATION (BEAM 8)



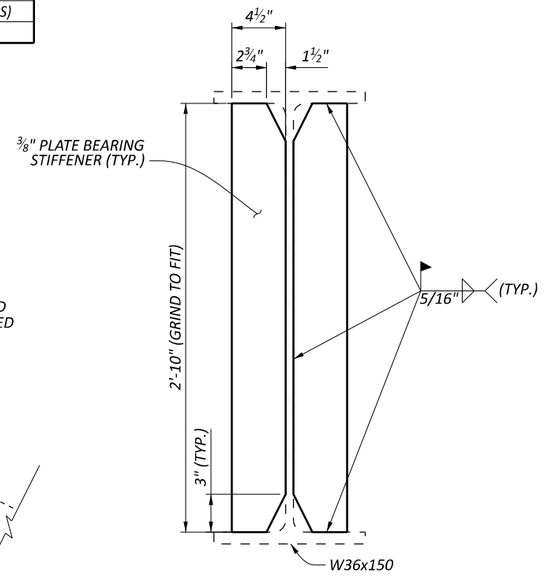
REAR ABUTMENT SIDE ELEVATION (BEAM 8)



ABUTMENT ELASTOMERIC BEARING DETAILS

ELASTOMERIC BEARING PAD DIMENSIONS					
LOCATION	BEARING PAD DIMENSION	LOAD PLATE DIMENSION	BEARING HEIGHT - (IN.)	NUMBER OF STEEL LAMINATES - (0.1046")	NUMBER OF INTERNAL ELASTOMERS - (0.3750")
REAR ABUT. (BEAM 8)	10" x 10"	15" x 13" (TOP) 13" x 13 " (BOTTOM)	3.2526	6	7

DESIGN LOADING			
LOCATION	D.L. (KIPS)	L.L. (KIPS)	TOTAL (KIPS)
REAR ABUT.	72.23	0	72.23



BEARING STIFFENER DETAIL

NOTES

GENERAL:

ELEVATIONS APPROXIMATE BASED ON EXISTING PLANS. CONTRACTOR TO FIELD VERIFY.

ELASTOMERIC BEARINGS:

THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED UNDER DIVISION 1, SECTION 14.6.6 (METHOD A) OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.

LOAD PLATE:

THE STEEL LOAD PLATES SHALL BE MADE OF A709 STEEL GRADE 50.

THE STEEL LOAD PLATES SHALL BE BONDED BY VULCANIZATION TO THE ELASTOMER DURING THE MOLD PROCESS.

BEARING STIFFENER:

THE BEARING STIFFENERS SHALL BE MADE OF A709 STEEL GRADE 50.

EXTERIOR BEARING STIFFENERS (2) TO BE INSTALLED WITH HP10x42 AND ELASTOMERIC BEARING. INTERIOR BEARING STIFFENER (1) TO BE INSTALLED AFTER UTILITY RELOCATION.

PREPARE EXISTING STEEL PER SSPC SP11. PRIME WITH NON-ORGANIC ZINC PRIME COAT PER C&MS 514 AFTER INSTALLATION OF STIFFENERS.

BEARING DETAIL
BRIDGE NO. FRA-23-1075
OVER I.R. 70

SFN 2500639
DESIGN AGENCY
DESIGNER JMB | CHECKER XXX
REVIEWER XXX MM-DD-YY
PROJECT ID NO PID
SUBSET 0 | TOTAL 0
SHEET P.2 | TOTAL 2

FRA-23-1075