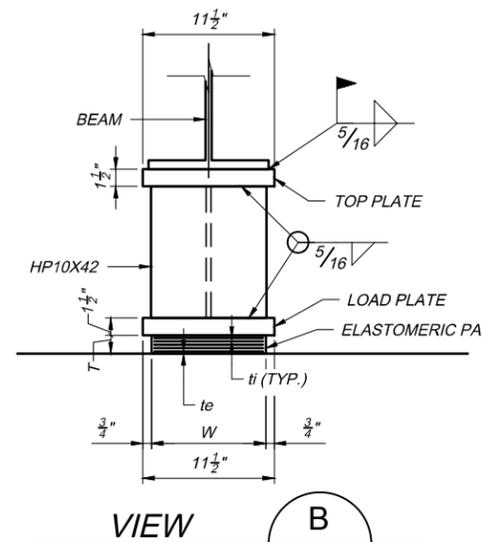
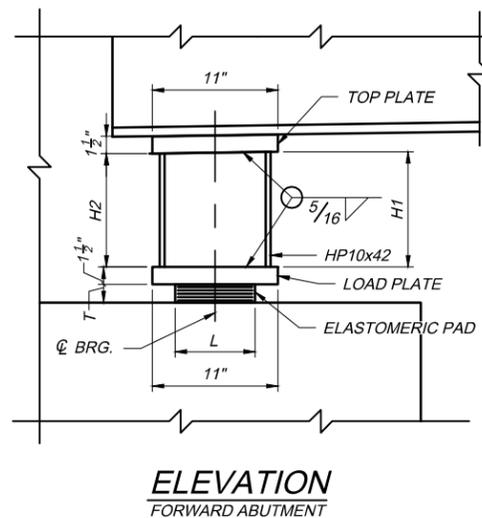
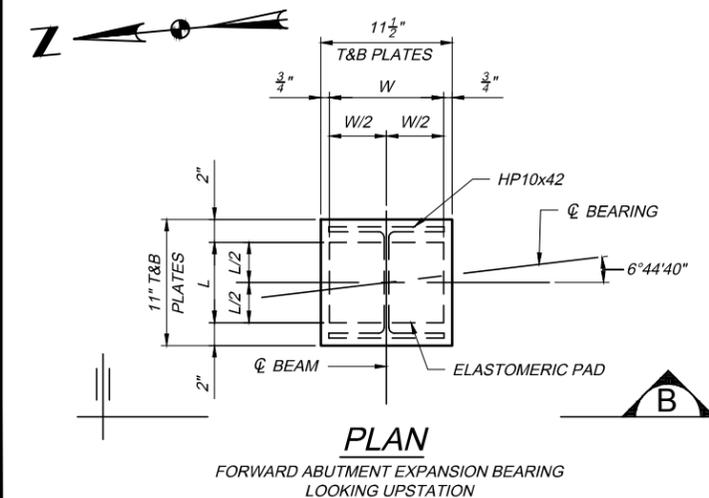
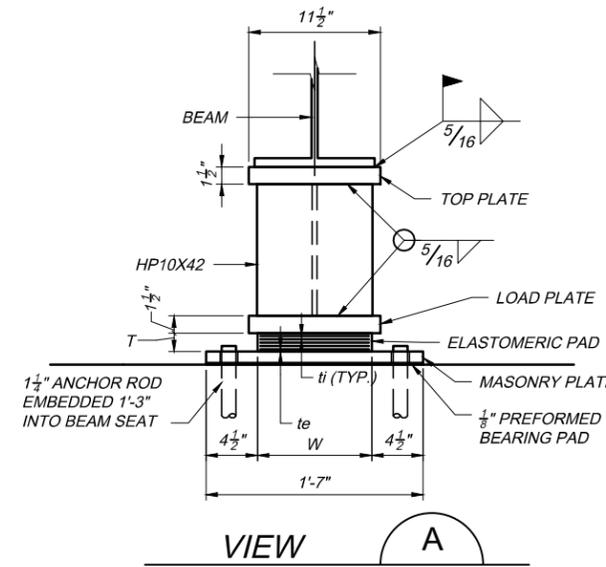
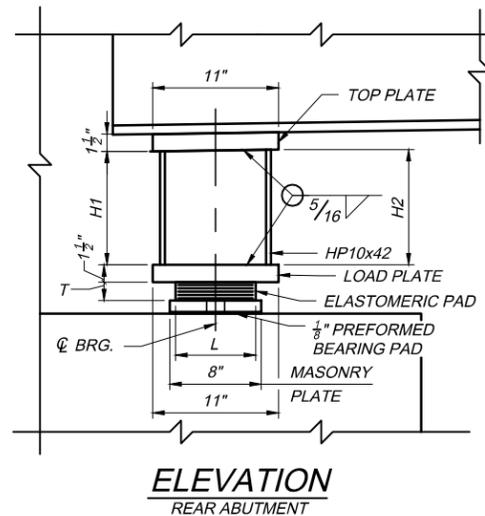
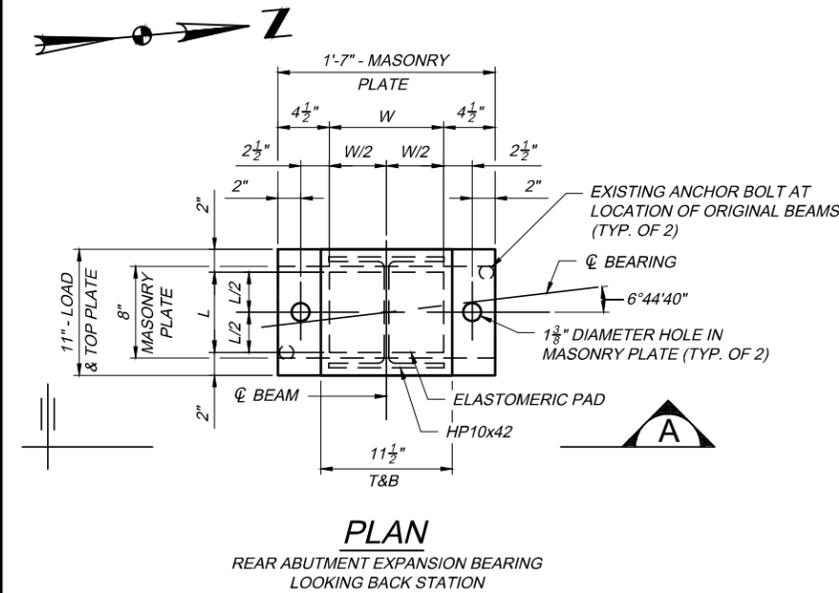


LOCATION	MASONRY PLATE	LOAD PLATE	TOP PLATE (ABOVE HP)	ELASTOMERIC PAD						STEEL LAMINATES		TYPE	DEAD LOAD (K)	LIVE LOAD (K) *	TOTAL LOAD (K)	
				L	W	T	NUMBER OF INTERIOR LAYERS	NUMBER OF EXTERIOR LAYERS	ti	te	NUMBER					THICKNESS
REAR ABUTMENT	1" X 8" L X 1'-7" W	1 1/2" X 11" L X 11 1/2" W	1 1/2" X 11" L X 11 1/2" W	7"	10"	1.94"	5	1	0.25"	0.17"	5	0.1046"	EXP.	17.0	37.6	54.6
FORWARD ABUTMENT	N/A	1 1/2" X 11" L X 11 1/2" W	1 1/2" X 11" L X 11 1/2" W	7"	10"	1.94"	5	1	0.25"	0.17"	5	0.1046"	EXP.	17.0	37.6	54.6

* WITHOUT IMPACT

HP HEIGHTS	REAR ABUTMENT		FORWARD ABUTMENT	
	H1	H2	H1	H2
H	4"	3 13/16"	5 1/2"	5 5/8"
G	4 11/16"	4 1/2"	6 5/8"	6 7/8"
F	5 1/8"	5 5/8"	7 3/4"	7 9/8"
E	6 5/8"	6 7/8"	8 5/8"	8 11/8"
D	4 7/8"	4 11/16"	7 1/8"	6 15/16"
C	3 3/8"	3"	5 3/8"	5 11/8"
B	3 3/8"	3 7/8"	5 3/8"	5"
A	4 1/8"	3 5/8"	5 1/2"	5 5/8"
1	3 5/8"	3 7/8"	4 7/8"	4 11/16"
2	3 5/8"	3 7/8"	4 7/8"	4 11/16"
3	3 1/2"	3 7/8"	4 7/8"	4 11/16"
4	3 1/2"	3 7/8"	5"	4 13/16"
P	4 1/2"	4 7/8"	6 1/2"	6 5/8"
N	5 3/8"	5 7/8"	7 11/16"	7 1/2"
M	6 3/4"	6 7/8"	8 13/16"	8 5/8"
L	5"	4 13/16"	7 5/8"	7 7/8"
K	3 3/4"	3 7/8"	6 7/8"	6 4/8"
J	3 1/2"	3 7/8"	5 7/8"	5 4/8"



LEGEND

ti = THICKNESS OF INTERNAL ELASTOMERIC LAYER
te = THICKNESS OF EXTERNAL ELASTOMERIC LAYER

NOTES

- ELASTOMERIC BEARINGS: THE BEARINGS HAVE BEEN DESIGNED UNDER DIVISION I, SECTION 14.6.6, METHOD A, OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES. ELASTOMERIC BEARINGS SHALL COMPLY WITH ODOT CMS 516 AND SECTION 18, BEARINGS, DIVISION II, CONSTRUCTION OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES. BEARINGS SHALL BE GRADE 3, 50 DUROMETER, ELASTOMER AND SHALL BE SUBJECTED TO THE LOAD TESTING REQUIREMENTS CORRESPONDING TO DESIGN METHOD A. THE TESTING SHALL BE INCLUDED IN THE PRICE BID FOR THE BEARINGS. THE MANUFACTURER SHALL FURNISH CERTIFIED TEST DATA. THE MANUFACTURER SHALL SUPPLY A SAMPLE BEARING OF EACH DESIGN, AS SHOWN IN THE PLANS, FOR DESTRUCTIVE TESTING AND APPROVAL PURPOSES. SAMPLE BEARINGS SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED INCIDENTAL TO THE ITEM.
- WELDING SHALL BE CONTROLLED SO THAT THE PLATE TEMPERATURE AT THE ELASTOMER BONDED SURFACE DOES NOT EXCEED 300°F AS DETERMINED BY USE OF PYROMETRIC STICKS OR OTHER TEMPERATURE MONITORING DEVICES.
- BEARING REPOSITIONING: IF THE BEARINGS ARE SET AT AN AMBIENT TEMPERATURE HIGHER THAN 80°F OR LOWER THAN 40°F AND THE BEARING SHEAR DEFLECTION EXCEEDS 1/6 OF THE BEARING HEIGHT AT 60°F ± 10°F, THE BEAMS SHALL BE RAISED TO ALLOW THE BEARINGS TO RETURN TO THEIR UNDEFORMED SHAPE AT 60°F ± 10°F.
- THE STEEL LOAD PLATE SHALL BE ASTM A709 GRADE 50 STEEL AND SHALL BE PAINTED IN ACCORDANCE WITH SP 514A. PAINTING SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE ITEM.
- THE STEEL LOAD PLATE SHALL BE BONDED BY VULCANIZATION TO THE ELASTOMER DURING THE MOLDING PROCESS.
- BASIS OF PAYMENT: THE UNIT BID PRICE SHALL INCLUDE ALL MATERIALS, LABOR AND INCIDENTALS NECESSARY TO FURNISH AND INSTALL LAMINATED ELASTOMERIC BEARINGS. SAMPLE BEARINGS SHALL NOT BE MEASURED FOR PAYMENT.
- IF THE BRIDGE SEAT AREA IS HIGH OR UNEVEN, PROPER ELEVATION AND A LEVEL SURFACE SHALL BE SECURED BY GRINDING THE AREA. GRINDING SHALL BE INCLUDED WITH ITEM SP 516 FOR PAYMENT.
- EXISTING ANCHOR BOLTS AND BEAM SEATS SHALL BE PREPARED PER SP 202 - PORTIONS OF STRUCTURE REMOVED.
- WHILE PREPARING FABRICATION DRAWINGS, THE CONTRACTOR SHALL FIELD VERIFY THE REQUIRED HP10X42 HEIGHT BY MEASURING THE DISTANCE FROM THE BOTTOM OF THE EXISTING BEAM TO THE TOP OF THE ABUTMENT SEAT WHILE CORRECTING FOR REMOVAL OF THE EXISTING CONCRETE PEDESTAL AND OTHER PROPOSED BEARING COMPONENTS TO BE FURNISHED.
- ALL BEARINGS SHALL BE MARKED PRIOR TO SHIPPING. THE MARKS SHALL INDICATE THE BEARING LOCATION ON THE BRIDGE AND A DIRECTION ARROW THAT POINTS UPSTATION. ALL MARKS SHALL BE PERMANENT AND BE VISIBLE AFTER THE BEARING IS INSTALLED.

4324xx-MP2028_SB001.dwg; 6/10/24 - 4:54pm


 DESIGN AGENCY
 Ohio Turnpike and Infrastructure Commission
 5555 State Route 162, Columbus, OH 43240
 P: 614.998.8644 F: 614.998.8648
 Copyright © 2024 GPD Group, Inc.

NO.	1	CHECKED	DJC	IN CHARGE	DGN
BY DATE	TJW 8/10/24	DESIGNED	TJW	DRAWN	REV
REVISIONS		REVISIONS		REVISIONS	
REVISED NOTE		REVISED NOTE		REVISED NOTE	

BEARING DETAILS
 OHIO TURNPIKE OVER BRYANT ROAD (T.R. 36)
 PORTAGE COUNTY
 M.P. 202.8

PROJECT 43-24-09
 DATE: 03/26/24
 9 / 22
 143
 170

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

OHIO TURNPIKE