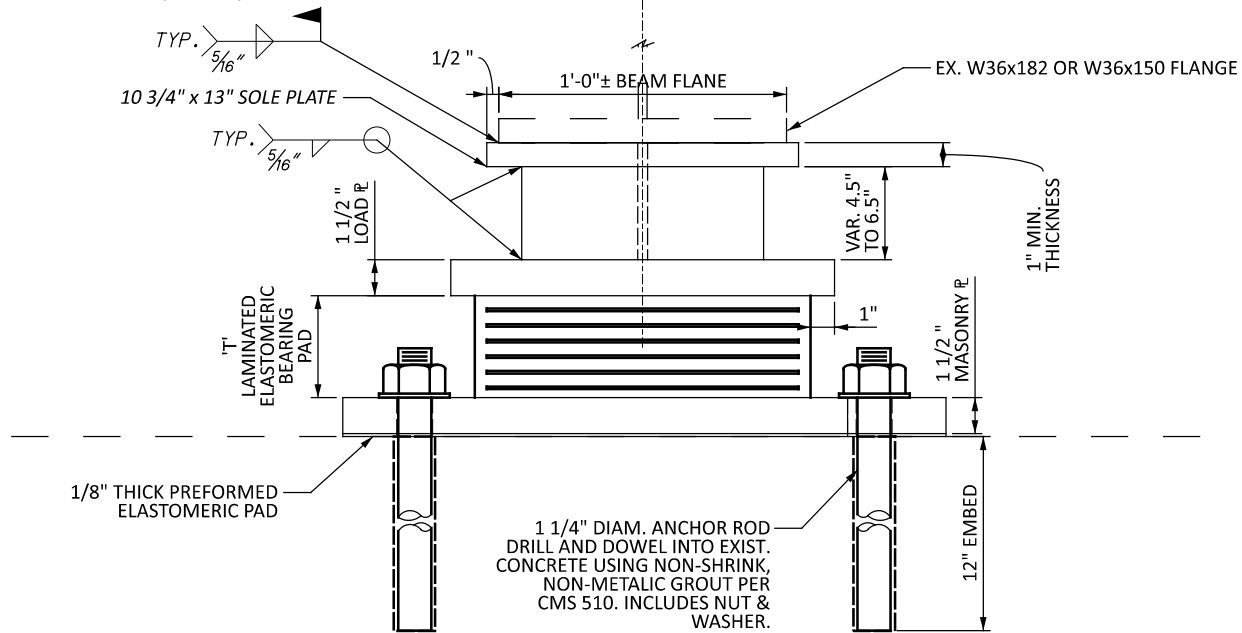


ELASTOMERIC BEARING (PLAN)



ELASTOMERIC BEARING (FRONT VIEW)

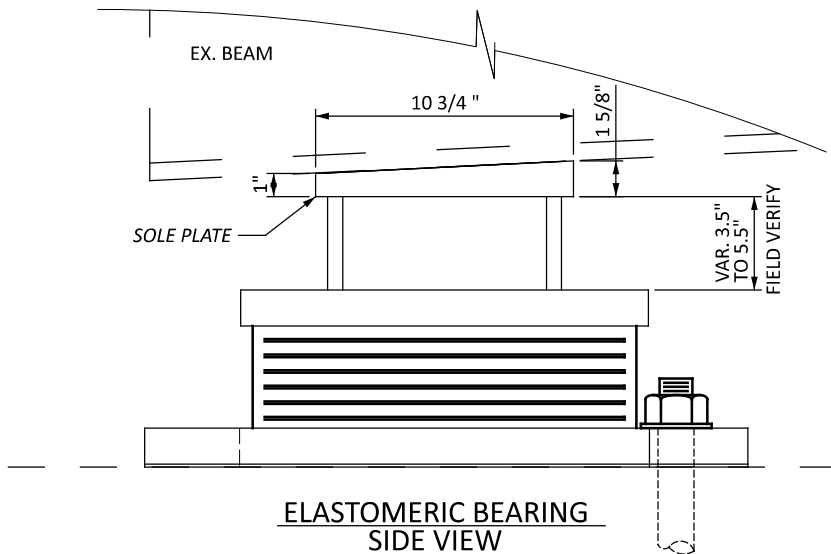
ELASTOMERIC BEARING PAD DATA FOR EXISTING BEAMS													HP10x42 SUPPORT POST HEIGHT (INCH)
BRIDGE NO.	SUB- STRUCTURE	BRIDGE MEMBER	ELASTOMERIC PAD						REACTIONS		MAXIMUM DESIGN LOAD (K)		
			T	NO. OF INTER. LAYERS	ti	te	STEEL LAMINATES		TYPE	DEAD LOAD (KIPS)		LIVE LOAD (KIPS)	
							NO.	THICK.					
HAM-126-1555	REAR ABUTMENT	EXIST. BEAMS 1 THRU 5	2.77"	4	0.50"	0.25"	5	0.1046"	EXPANSION	32.20	64.10	96.30	
HAM-126-1555	FWD. ABUTMENT	EXIST. BEAMS 1 THRU 5	2.77"	4	0.50"	0.25"	5	0.1046"	EXPANSION	23.60	59.50	83.10	VAR. 4.5" TO 6.5"
LONGITUDINAL SLOPE EACH ABUT. = 0.06 FT/FT (CONTRACTOR SHALL FIELD VERIFY)													
ti = THICKNESS OF INTERNAL ELASTOMER LAYER te = THICKNESS OF EXTERNAL ELASTOMER LAYER													■ W/O IMPACT

NOTES:

- STEEL FOR BEARING LOAD PLATE AND MASONRY PLATE SHALL BE A709 GRADE 50. LOAD AND MASONRY PLATES AND HP SECTION SHALL BE PAINTED SIMILAR TO THE GIRDERS. PAYMENT INCLUDED IN ITEM 514.
- THE ELASTOMER FOR THE ELASTOMERIC BEARINGS SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED UNDER DIVISION I, SECTION 14.6.6 (METHOD A) OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.
- THE STEEL LOAD PLATE AND MASONRY PLATE SHALL BE BONDED BY VULCANIZATION TO THE ELASTOMER DURING THE MOLDING PROCESS.
- SEE SHEET 11 FOR QUANTITIES AND SHEET 41 FOR FRAMING PLAN.
- THE CONTRACTOR SHALL VERIFY THAT THERE IS A SMOOTH TRANSITION FROM THE APPROACH SLAB AND ABUTMENT BACKWALL ONTO THE DECK AT EACH END OF THE BRIDGE ONCE THE BEARING WORK IS COMPLETED.
- WELDING OF THE LOAD PLATE TO THE HP SECTION SHALL BE CONTROLLED SO THAT THE PLATE TEMPERATURE AT THE ELASTOMERIC BONDED SURFACE DOES NOT EXCEED 300°F AS DETERMINED BY USE OF PYROMETRIC STICKS OR OTHER TEMPERATURE MONITORING DEVICES.
- LONGITUDINAL ROADWAY SLOPE SHALL BE ACCOMODATED THROUGH BEVEL OF THE ENTIRE TOP OF THE HP SUPPORT SECTIONS. CONTRACTOR SHALL FIELD VERIFY.
- IN ADDITION TO THE REQUIREMENTS OF 516 AND THE DETAILS SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE AND INSTALL ANY NECESSARY SHIMS TO PROVIDE A SNUG FIT BETWEEN THE BEARING DEVICE AND BEARING SEAT. ANY BEARING SHIMS PROVIDED SHALL BE THE SAME MATERIAL AS THE PROPOSED STEEL LOAD PLATE. SHIM PLATE FOOT PRINT SHALL MATCH THE ELASTOMERIC BEARING PAD DIMENSIONS TO ALLOW FOR FIELD WELDING TO THE LOAD PLATE USING 5/16" FILLET WELD AROUND THE ENTIRE PERIMETER OF THE SHIM PLATE.

THE CONTRACTOR SHALL ASSURE THAT ALL BEARINGS ARE SHIMMED ADEQUATELY AND THAT NO BEAMS OR BEARING DEVICES ARE FLOATING. PRIOR TO BEARING PLACEMENT THE CONTRACTOR SHALL GRIND SMOOTH ALL EXISTING WELDS ON THE BOTTOM FLANGE OF THE GIRDER.
- THE GIRDER SEAT HEIGHTS LISTED IN THE PLANS ARE PROVIDED FOR INFORMATION PURPOSES ONLY AND SHALL BE CONSIDERED TENTATIVE. THE CONTRACTOR IS REQUIRED TO FIELD VERIFY THE EXISTING BOTTOM OF GIRDER AND GIRDER SEAT ELEVATIONS PRIOR TO THE JACKING OPERATIONS. THE CONTRACTOR IS TO SUBMIT THE VERIFIED ELEVATIONS TO THE DISTRICT 8 ENGINEER PRIOR TO THE JACKING OPERATIONS. APPROVAL OF THE ELEVATIONS IS NOT REQUIRED.

THE CONTRACTOR IS TO DETERMINE THE HEIGHT OF PROPOSED HP SECTION BY SUBTRACTING THE SOLE PLATE, LOAD PLATE, MASONRY PLATE AND ELASTOMERIC BEARING THICKNESS FROM THE CONTRACTOR MEASURED DIFFERENCE BETWEEN BOTTOM OF EXISTING GIRDER ELEVATION AND EXISTING GIRDER SEAT ELEVATION AT EACH BEARING LOCATION. ANY SHIMS NEEDED AS A RESULT OF THE CONTRACTOR'S ERROR WILL BE PROVIDED AT THE CONTRACTOR'S EXPENSE AND WILL NEED TO BE APPROVED BY THE ENGINEER. IF REQUIRED, ONLY ONE BEARING SHIM WILL BE ALLOWED PER BEARING AND MUST BE INSTALLED ABOVE THE LOAD PLATE.
- ALL COSTS FOR MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS (i.e. SURVEY, ETC.) NECESSARY TO FURNISH AND INSTALL THE LAMINATED ELASTOMERIC BEARINGS WITH VULCANIZED LOAD PLATES SHALL BE INCLUDED IN THE UNIT BID PRICE FOR PAYMENT. PAYMENT WILL BE MADE AT THE CONTRACT PRICE FOR ITEM 516 - ELASTOMERIC BEARING PADS WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN.
- CONTRACTOR SHALL FIELD VERIFY DIMENSION 'A' PRIOR TO BEARING FABRICATION.
- THE HP SECTION AND SOLE PLATE ARE PAID FOR UNDER ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF.
- VERIFY THAT ABUTMENT BEAM SEATS ARE LEVEL. PERFORM CORRECTIONS AS NEEDED.



ELASTOMERIC BEARING
SIDE VIEW