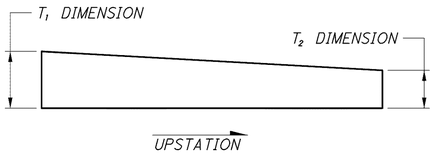
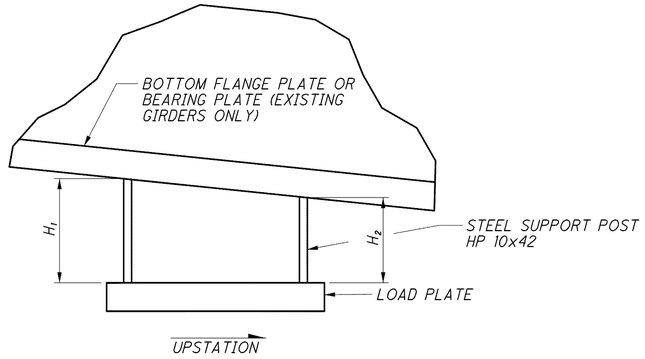


BEVELED LOAD PLATE DETAIL

(FOR PLAN DIMENSION SEE SHEET 34/67 .)



BEVELED STEEL SUPPORT POST DETAIL

BEVELED LOAD PLATE THICKNESS (INCHES)

WESTBOUND LANES (LEFT STRUCTURE)

LOCATION	GIRDER 1		GIRDER 2		GIRDER 3		GIRDER 4		GIRDER B		GIRDER C		GIRDER D		GIRDER E		GIRDER F		GIRDER G		GIRDER 5	
	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
PIER 1	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 7/16"	2 3/8"	2 3/8"	2 3/8"
PIER 2	2 7/16"	2 3/8"	2 7/16"	2 3/8"	2 7/16"	2 3/8"	2 7/16"	2 3/8"	2 1/2"	2 3/8"	2 1/2"	2 3/8"	2 1/2"	2 3/8"	2 1/2"	2 3/8"	2 1/2"	2 3/8"	2 1/2"	2 3/8"	2 1/2"	2 3/8"

EASTBOUND LANES (RIGHT STRUCTURE)

LOCATION	GIRDER 6		GIRDER 7		GIRDER J		GIRDER K		GIRDER L		GIRDER M		GIRDER N		GIRDER P		GIRDER 8		GIRDER 9		GIRDER 10	
	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
PIER 1	2 7/16"	2 3/8"	2 7/16"	2 3/8"	2 7/16"	2 3/8"	2 7/16"	2 3/8"	2 1/2"	2 3/8"	2 1/2"	2 3/8"	2 1/2"	2 3/8"	2 1/2"	2 3/8"	2 1/2"	2 3/8"	2 1/2"	2 3/8"	2 1/2"	2 3/8"
PIER 2	2 1/2"	2 3/8"	2 1/2"	2 3/8"	2 1/2"	2 3/8"	2 1/2"	2 3/8"	2 1/2"	2 3/8"	2 9/16"	2 3/8"	2 9/16"	2 3/8"	2 9/16"	2 3/8"	2 9/16"	2 3/8"	2 9/16"	2 3/8"	2 9/16"	2 3/8"

BEVELED STEEL SUPPORT POST HEIGHTS (INCHES)

WESTBOUND LANES (LEFT STRUCTURE)

LOCATION	GIRDER 1		GIRDER 2		GIRDER 3		GIRDER 4		GIRDER B		GIRDER C		GIRDER D		GIRDER E		GIRDER F		GIRDER G		GIRDER 5	
	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
REAR ABUT.	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
FORWARD ABUT.	4 1/2"	4 1/2"	4 9/16"	4 1/2"	4 9/16"	4 1/2"	4 9/16"	4 1/2"	4 9/16"	4 1/2"	4 9/16"	4 1/2"	4 9/16"	4 1/2"	4 9/16"	4 1/2"	4 9/16"	4 1/2"	4 9/16"	4 1/2"	4 9/16"	4 1/2"

EASTBOUND LANES (RIGHT STRUCTURE)

LOCATION	GIRDER 6		GIRDER 7		GIRDER J		GIRDER K		GIRDER L		GIRDER M		GIRDER N		GIRDER P		GIRDER 8		GIRDER 9		GIRDER 10	
	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
REAR ABUT.	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
FORWARD ABUT.	4 5/8"	4 1/2"	4 5/8"	4 1/2"	4 5/8"	4 1/2"	4 5/8"	4 1/2"	4 5/8"	4 1/2"	4 5/8"	4 1/2"	4 5/8"	4 1/2"	4 5/8"	4 1/2"	4 5/8"	4 1/2"	4 5/8"	4 1/2"	4 5/8"	4 1/2"

NOTES

1. LOAD PLATES: THE STEEL LOAD PLATE, BEARING PLATES AND HP10x42 BEVELED SUPPORT BEAM SHALL BE A709, GRADE 50. THE STEEL LOAD PLATE SHALL BE BONDED BY VULCANIZATION TO THE ELASTOMER DURING THE MOLDING PROCESS. WELDING OF THE LOAD PLATE AND THE HP10x42 BEVELED SUPPORT BEAM SHALL BE CONTROLLED SO THAT THE PLATE TEMPERATURE AT THE ELASTOMER BONDED SURFACE DOES NOT EXCEED 300° F AS DETERMINED BY THE USE OF PYROMETRIC STICKS OR OTHER TEMPERATURE MONITORING DEVICES.
2. PRIOR TO WELDING THE NEW BEARING PLATE TO EXISTING GIRDER, THE CONTRACTOR SHALL REMOVE EXISTING PAINT IN THE AREA THE BEARING PLATE TO BE CONNECTED. PAYMENT FOR THIS SURFACE PREPARATION SHALL BE INCLUDED WITH ITEM 514, SURFACE PREPARATION OF EXISTING STEEL.
3. STEEL FOR LOAD PLATES AND HP 10x42 SHAPE SHALL BE SHOP PAINTED WITH INORGANIC ZINC PRIMER AS SPECIFIED IN CMS 513.27. PAYMENT IS INCLUDED IN THE UNIT PRICE BID FOR EACH BEARING. APPLY FIELD PAINT TO THE EXPOSED STEEL LOAD PLATES IN ACCORDANCE WITH CMS 514.
4. ELASTOMERIC BEARINGS: THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED UNDER DIVISION I, SECTION 14.6.6.3 (METHOD A) OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.
5. ALL MATERIALS, LABOR AND INCIDENTALS NECESSARY TO FURNISH AND INSTALL LAMINATED ELASTOMERIC BEARINGS, LOAD PLATES, BEARING PLATES AND HP10x42 BEVELED SUPPORT BEAM SHALL BE INCLUDED IN ITEM 516, ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE, AS PER PLAN FOR PAYMENT.
6. FOR GIRDER ELEVATION AND ADDITIONAL DETAILS AND NOTES SEE SHEETS 36/67 AND 37/67 .
7. FOR FLANGE AND BEARING PLATE VENTHOLE LOCATIONS, SEE SECTION A-A ON SHEET 36/67 .
8. FOR LIST OF ABBREVIATIONS, SEE SHEET 4/67 .
9. BEARING REPOSITIONING: IF THE STEEL IS ERECTED AT AN AMBIENT TEMPERATURE HIGHER THAN 80 DEGREES F OR LOWER THAN 40 DEGREES F AND THE BEARING SHEAR DEFLECTION EXCEEDS 1/6 OF THE BEARING HEIGHT AT 60 DEGREES F (+/-) 10 DEGREES F, RAISE THE GIRDERS TO ALLOW THE BEARINGS TO RETURN TO THEIR UNDEFORMED SHAPE AT 60 DEGREES F (+/-) 10 DEGREES F.

DESIGN AGENCY
PARSONS BRINCKERHOFF
QUADE & DOUGLAS, INC.
614 W. SUPERIOR AVE., SUITE 400
CLEVELAND, OHIO 44113

DESIGNED BMG | DRAWN NAL | REVIEWED RJO | DATE 6-19-08
CHECKED PWP | REVISED | STRUCTURE FILE NUMBER 4300572(LL) 4300602(R)

BEARING DETAILS II
BRIDGE NO. LAK-2-0400 L&R
STATE ROUTE 2 OVER VINE STREET

LAK-2-3.32
PID No. 13486

1360
1679