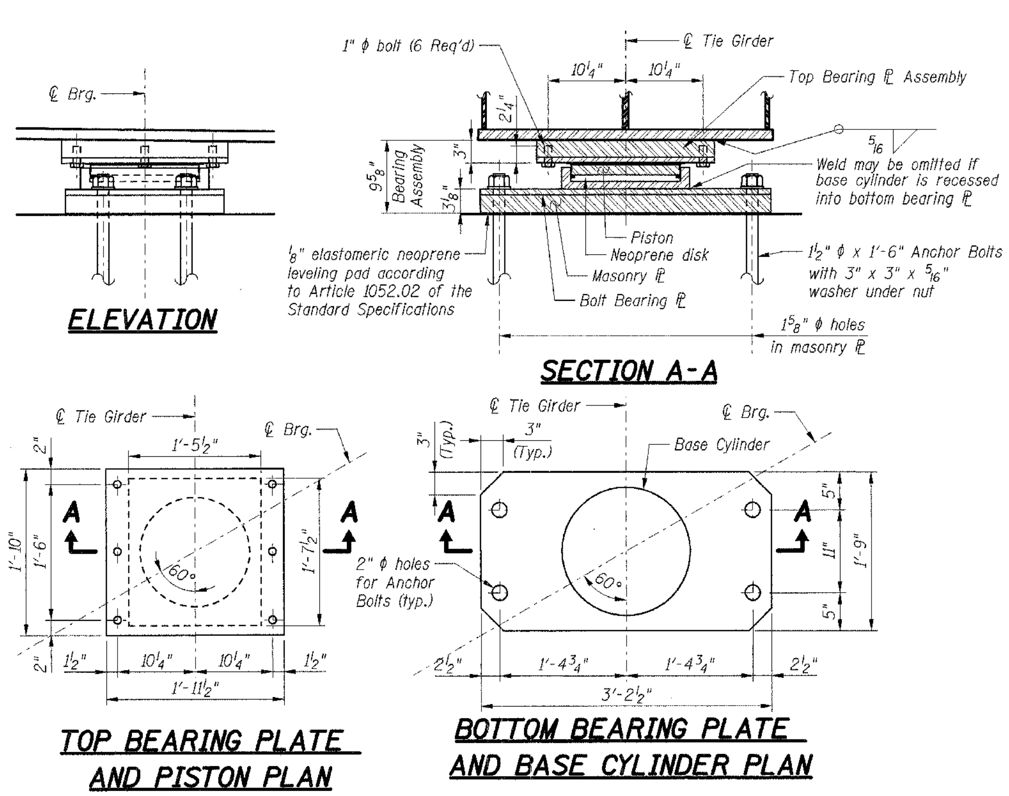
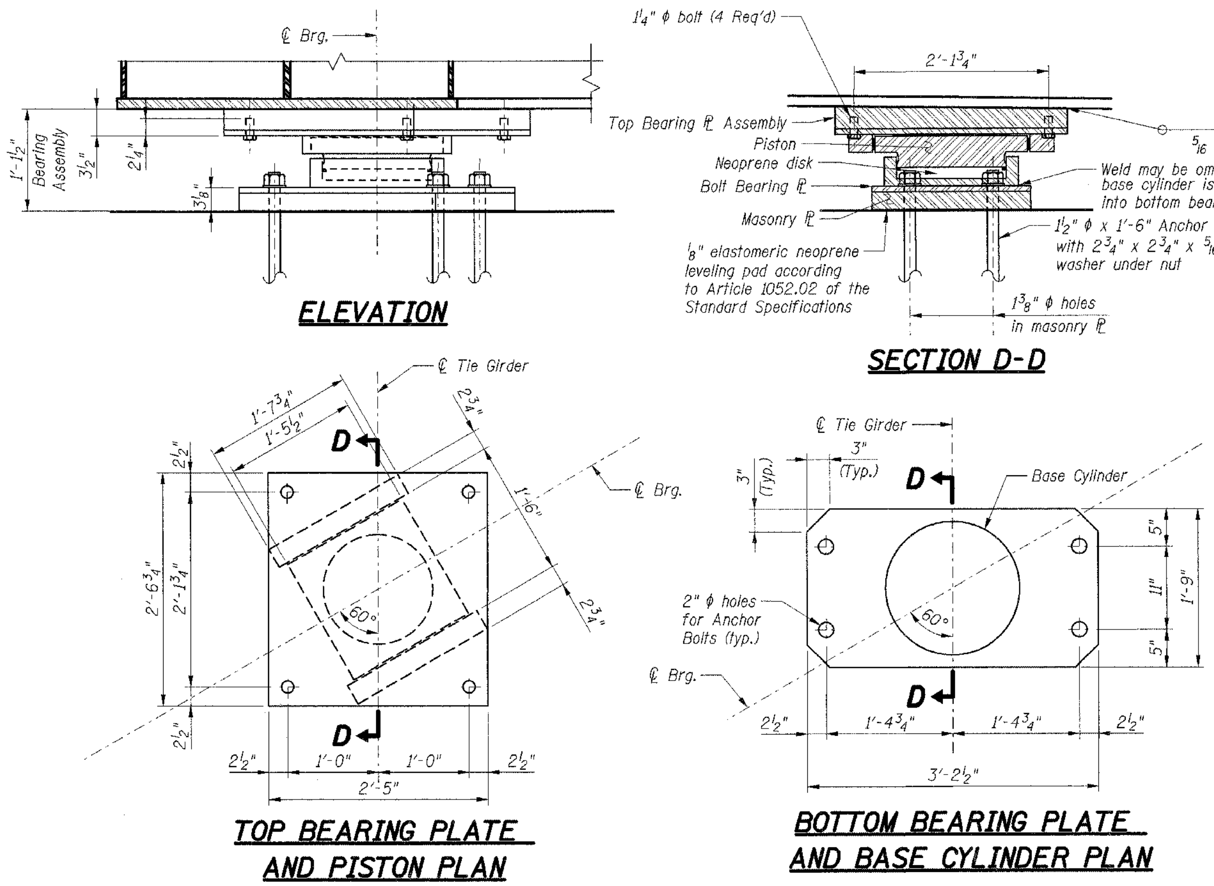
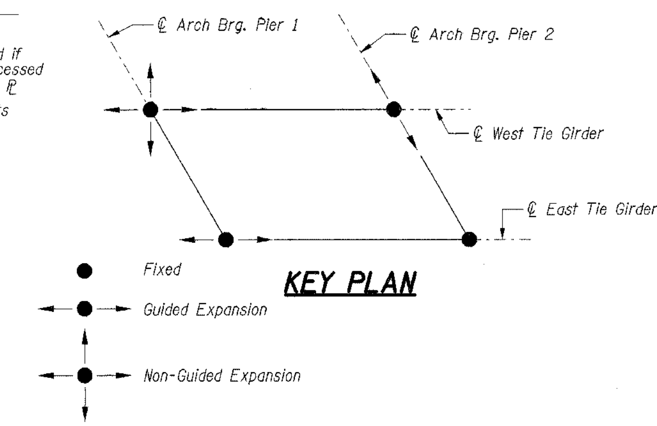


BEARING AT PIER 1 - WEST TIE GIRDER



BEARING AT PIER 2 - WEST TIE GIRDER



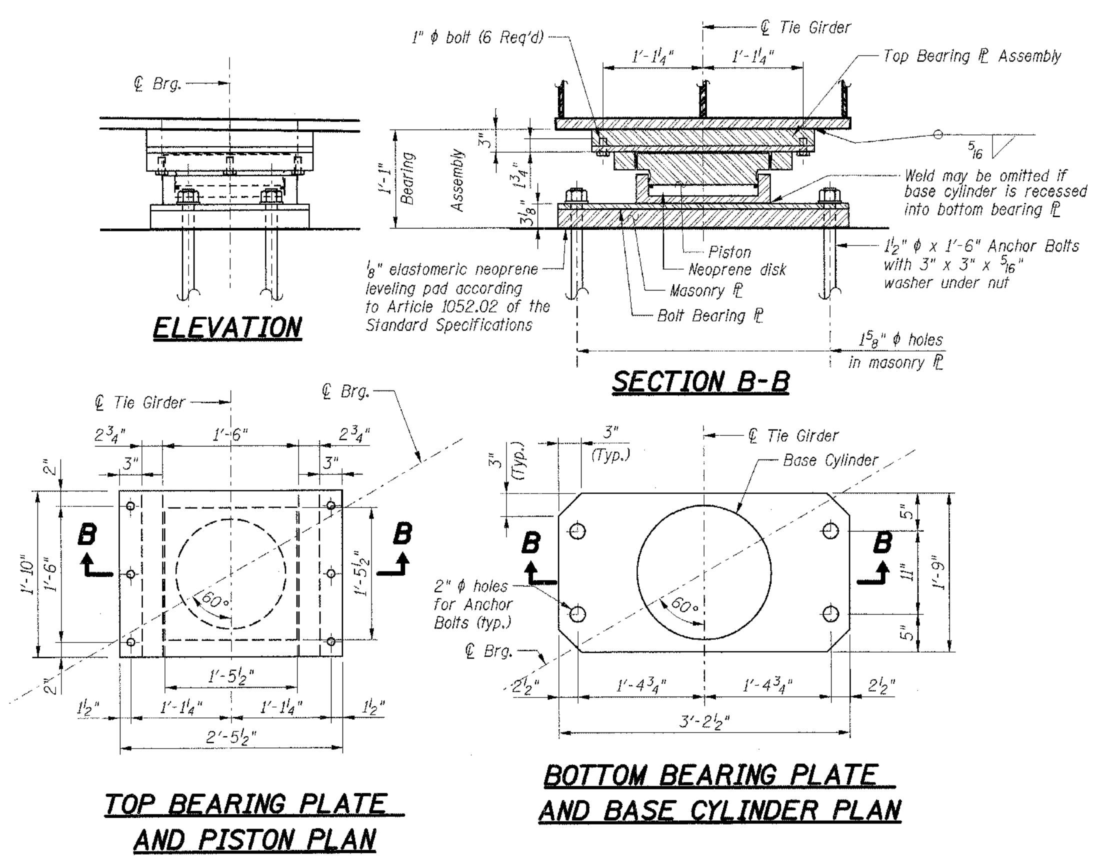
Notes:

1. Floating Bearing Assembly Design Parameters:

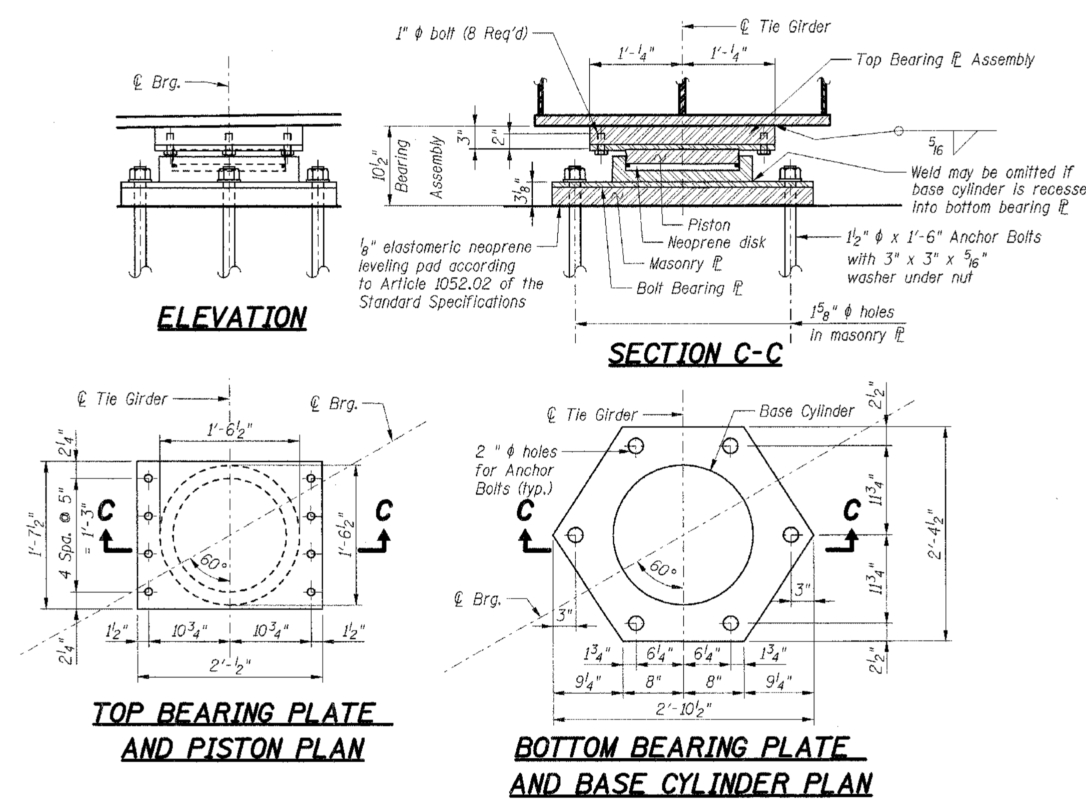
Location	Vertical Loads (kips)			
	Dead Load	Live Load	Impact Load	Horizontal Load
Pier 1 West	400	100	20	-
Pier 1 East	400	100	20	150
Pier 2 West	400	100	20	150
Pier 2 East	400	100	20	195

Longitudinal Movement: ±1" @ 75°F
Transverse Movement: ±3/8" @ 75°F
Total Rotation: 3%

2. All steel for floating bearings shall conform to the requirements of AASHTO M270 Grade 50, unless otherwise noted.
3. Anchor bolts shall be ASTM F1554 Gr 105.
4. Bolts shall be AASHTO M 253, Type 3.
5. The 1/8" TFE sheet shall be bonded directly to the piston with a two-component medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type 1. The bond agent shall be applied to the full area of the contact surfaces.
6. The cost of furnishing anchor bolts, threaded studs, shim plates and elastomeric pads for floating bearing is included in the cost of furnishing floating bearings.
7. The dimensions and details shown for the floating bearings are for a specific manufacturer's product. See Specifications regarding changes to dimensions and details. Information not shown regarding the size of the bearing top plate, piston, and base assemblies shall be determined by the manufacturer and shall meet the requirements stated in Note 1 above.
8. The sliding coefficient of friction shall not exceed 3 percent. Certification of compliance to proof load and sliding coefficient of friction requirements in accordance with AASHTO 18.3.5.3. shall be provided with shop drawing submittal.
9. The bearing shall be blocked during the erection of structural steel.
10. The Contractor shall submit the Erection Procedure for approval by the Engineer. This work shall be included with the pay item for Floating Bearings.



BEARING AT PIER 1 - EAST TIE GIRDER



BEARING AT PIER 2 - EAST TIE GIRDER

BILL OF MATERIAL

Item	Unit	Total
Floating Bearings, Guided Expansion, 550k	Each	2
Floating Bearings, Fixed, 550k	Each	1
Floating Bearings, Non-Guided Expansion, 550k	Each	1

SHT. S-30 OF 40

REVISIONS	
NAME	DATE

CITY OF DANVILLE, ILLINOIS
HUNGRY HOLLOW ROAD BRIDGE

BEARING DETAILS MAIN SPAN

SCALE:
DATE 12/06/05
DRAWN BY LAR
CHECKED BY JRH

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE 312/616-0000

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