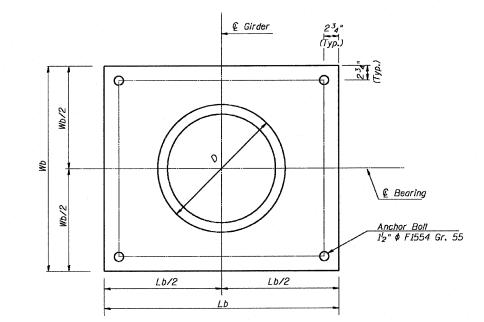
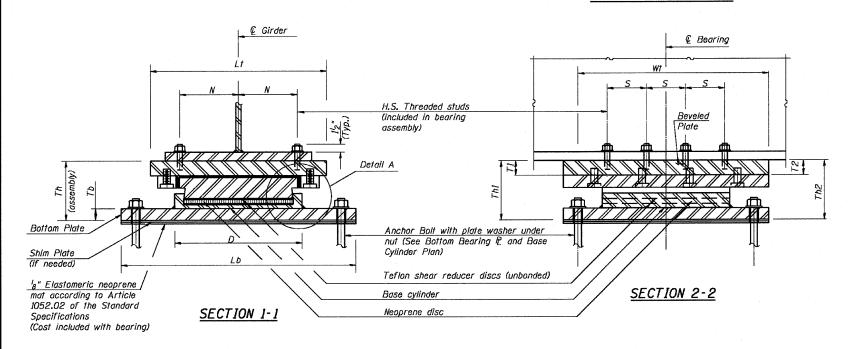
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



BOTTOM BEARING & AND BASE CYLINDER PLAN



€ Girder

◆1 2

4 2

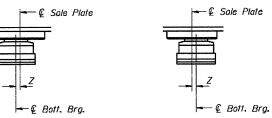
TOP BEARING P AND PISTON PLAN

\Guide Bar

EarthTech A **TUGO** International Ltd. Company

AP. ROUTE NO.	SECTION	ca	INTY	TOTAL SHEETS	SMEET NG.	SHEET NO. 59
786	109 BR	La S	alle	351	259	89 SHEETS
PEC. ROAD CITY	NO. 7	ILLINOIS	FEO. AIG PR	JEC7-		

Contract # 66607



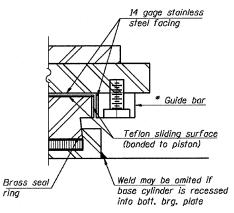
BELOW 50° F.
(Move bott. brg. away from fixed brg.)
(Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

 $Z = \frac{1}{8}$ " per each 100' of expansion for every 15° temp. change from the normal temp. of 50° F.

BILL OF MATERIAL

1	Item	Unit	Total		
	High Load Multi-Rotation Bearings, Guided Expansion 800K.	Each	6		



DETAIL A

* As alternates to the bolted connection shown, the guide bars may be connected to the top bearing plate by groove welds or the guide bars and top bearing plate may be fabricated as a single piece.

GUIDE EXPANSION BEARING DIMENSION

DESIGNED	- CLS
CHECKED	- DEV
DRAWN	- JHR
CHECKED	- RJC

Tapped hole for HS threaded stud. 1" \$ F1554 Gr. 55

Pier 3

Brg.	Vertical	Lateral	Total Bottom Bearing Plate			Top Bearing Plate												
Location	Design Load	Design Load	Required Movement	Tb in.	Lb in.	Wb in.	Top Tf1 in.	Plate Tt2 in.	Lt in.	Wt in.	M in.	N in.	R in.	S in.	Th1 in	Th2 in.	in.	D in.
Pier 3	800	123	2 ³ 8	2	40	30	3 ³ 8	. 4	32	30	7	9	3	8	1414	14 78	27	25

EXPANSION POT BEARING ASSEMBLIES IL. 170 F.A.P. 786 OVER ILLINOIS RIVER AT SENECA PUBLIC WATERS LA SALLE COUNTY, SECTION 109 BR

STATION 79+04.42 STRUCTURE NO. 050-0246