

CHECKED BY: TA

DRAWN BY: TA

DESIGNED BY: TA

IN CHARGE OF: TA

FIXED BEARING DEVICE NOTES:

- FIXED PREFORMED FABRIC BEARINGS ARE SIMILAR TO EXPANSION BEARING WITH THE FOLLOWING MODIFICATIONS:
 - THERE IS NO STAINLESS STEEL SURFACE.
 - THERE IS NO PTFE SURFACE.
 - THE SOLE PLATE SHALL BE CENTERED DIRECTLY OVER THE PREFORMED FABRIC PAD.
 - THE BOLT HOLES IN THE SOLE PLATE MAY BE SLOTTED OR ROUND DEPENDING ON THE AMOUNT OF LIVELOAD ROTATION.
- FIXED PREFORMED FABRIC BEARINGS SHALL BE PAID FOR UNDER ITEM 25565.2203
- THE PREFORMED FABRIC PAD SHALL BE CENTERED BETWEEN ANCHOR BOLTS REGARDLESS OF TEMPERATURE.

EXPANSION BEARING DEVICE NOTES:

- THE EXPANSION BEARINGS SHALL CONFORM TO THE SPECIFICATION FOR ITEM 25565.2203.
- ALL EXPANSION BEARINGS SHALL BE PAID FOR UNDER ITEM 25565.2203 PREFORMED FABRIC BEARING. THE {CONTRACTOR, FABRICATOR OR THRUWAY AUTHORITY WHICHEVER IS APPLICABLE} SHALL SUPPLY PREFORMED FABRIC BEARINGS CONFORMING TO THE REQUIREMENTS OF THE BEARING ITEM AND THIS SHEET.
- SHOP DRAWINGS SHALL BE SUBMITTED AND SHALL INCLUDE WELDING AND BONDING PROCEDURES.
- THE CONCRETE SURFACE UNDER THE BEARING SHALL BE LEVEL.
- ANCHOR BOLTS AND NUTS SHALL BE GALVANIZED IN CONFORMANCE WITH SECTION 719-01 OF THE NEW YORK STATE STANDARD SPECIFICATIONS. THE COST OF GALVANIZING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.
- THE SOLE PLATE AND PLATE WASHERS SHALL BE METALIZED OR GALVANIZED (MANUFACTURE'S PREFERENCE). THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.
- THE FIELD WELD CONNECTING THE BOTTOM FLANGE TO THE SOLE PLATE SHALL BE MADE ON BOTH SIDES OF THE FLANGE. AREAS OF METALIZING OR GALVANIZING DAMAGED BY WELDING SHALL BE COATED WITH ZINC RICH PAINT AS PER SECTION 719-01.
- ANY ADJUSTMENT IN ELEVATION NECESSARY TO ACCOMMODATE THE ACTUAL BEARING THAT IS SUPPLIED SHALL BE MADE BY CHANGING THE TOP OF THE PEDESTAL ELEVATIONS. THE MINIMUM PEDESTAL HEIGHT ALLOWED WILL BE 6 INCHES. NO CHANGE IN BRIDGE SEAT ELEVATION WILL BE ALLOWED WITHOUT WRITTEN APPROVAL OF THE D.S.D.
- DESIGN CRITERIA:
 - PAD TO CONCRETE DESIGN PRESSURE = 880 psi MAXIMUM.
 - MINIMUM ALLOWABLE PAD DESIGN ROTATION = 0.015 RADIAN.
 - HORIZONTAL CAPACITY OF PAD SHALL BE A MINIMUM OF 10% OF THE VERTICAL DESIGN LOAD.
 - HORIZONTAL CAPACITY OF BEARING CONNECTIONS SHALL BE A MINIMUM OF 19% OF VERTICAL DESIGN DEAD LOAD AND SUPERIMPOSED DEAD LOAD.
 - MINIMUM VERTICAL DESIGN LOAD [REDACTED]
 - MINIMUM HORIZONTAL DESIGN LOAD [REDACTED]
 - THE MAXIMUM COEFFICIENT OF STATIC FRICTION BETWEEN THE STAINLESS STEEL AND THE PTFE SURFACE IS [REDACTED]
- STEEL FOR BEARINGS SHALL BE ASTM [REDACTED] UNLESS OTHERWISE NOTED.
- THE PREFORMED FABRIC PAD SHALL BE CENTERED BETWEEN ANCHOR BOLTS REGARDLESS OF TEMPERATURE. THE SOLE PLATE AT THE EXPANSION BEARING SHALL BE SET ACCORDING TO THE BEARING SETTING TABLE AT LEFT PRIOR TO WELDING TO THE BOTTOM FLANGE.
- IF THE ANCHOR BOLTS ARE TO BE DRILLED & GROUTED INTO THE CONCRETE, THE COST FOR THIS WORK SHALL BE INCLUDED UNDER THE UNIT PRICE BID FOR THE BEARING ITEM.

EXPANSION BEARING SETTING TABLE

TEMP. (F°)	Δ TO MEAN	TEMP. CORR.(IN.)	"A"	ELONG. CORR.(IN.)	"B"
120°	75°				
105°	60°				
90°	45°				
75°	30°				
60°	15°				
MEAN 45°	-	-			
30°	15°				
15°	30°				
0°	45°				
-15°	60°				
-30°	75°				

A = DISTANCE FROM FRONT EDGE OF PAD TO FRONT EDGE OF SOLE PLATE WITH BEAM AND DIAPHRAGM LOADS ON BEAM.

"B" = DISTANCE FROM FRONT EDGE OF PAD TO FRONT EDGE OF SOLE PLATE WITH ALL DEAD LOADS AND SUPERIMPOSED DEAD LOADS ON BEAM.

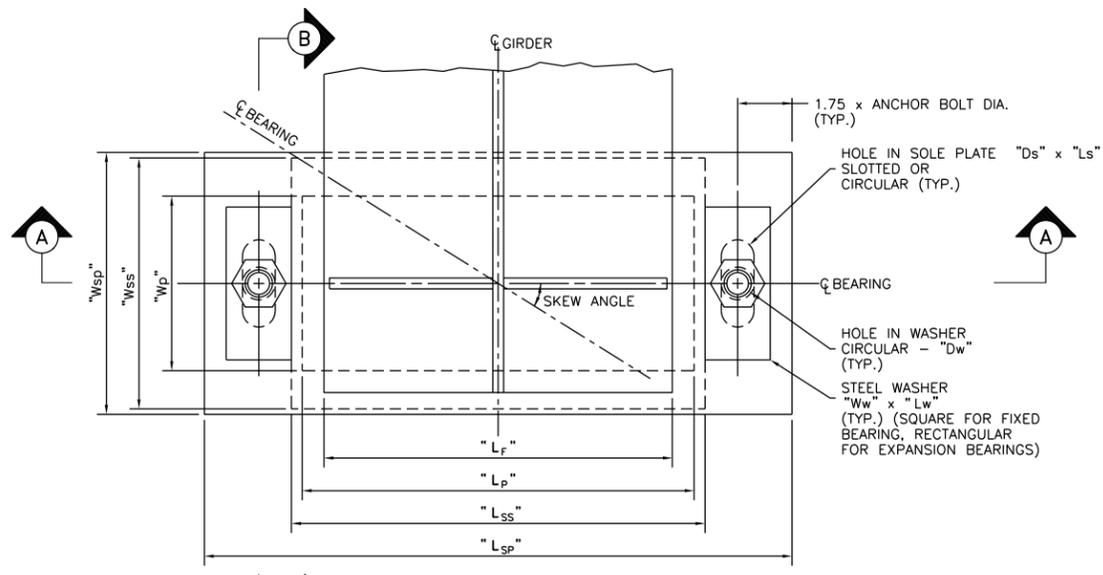
— ELONGATION IS DUE TO DEFLECTION.

— DEFLECTION IS DUE TO D.L. & S.D.L. EXCLUDING BEAM & DIAPHRAGM LOADS.

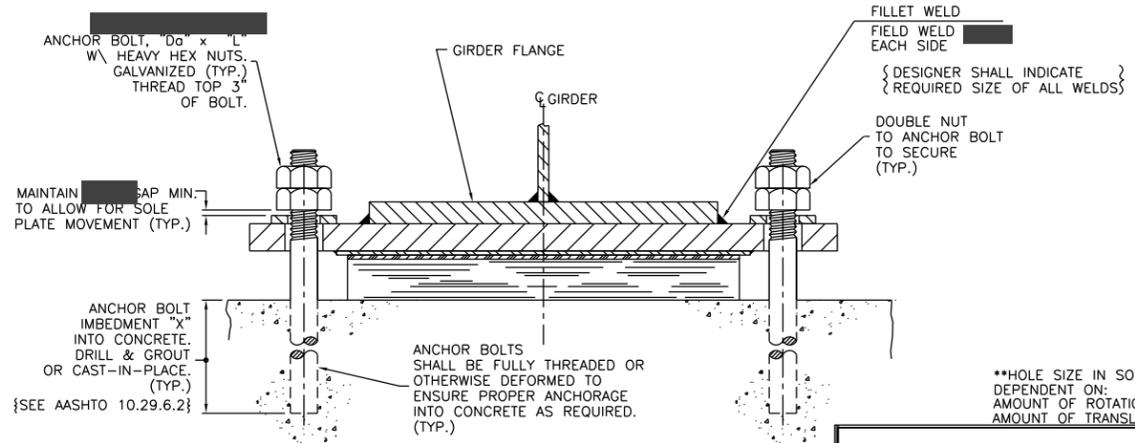
BEARING DIMENSION TABLE

SOLE PLATE						STAINLESS STEEL SURFACE		PTFE SURFACE		PREFORMED FABRIC PAD			ANCHOR BOLTS				WASHERS			GIRDER FLANGE					
W _{SP}	L _{SP}	D _S x L _S **	T _{SP} (MIN.)	T _{SP} (MAX.)		W _{SS}	L _{SS}	W _{TF}	L _{TF}	W _P	L _P	T _P	D _A	L	X	GAP	W _W	L _W	D _W	T _W (MIN.)	T _W (MAX.)	W _F	L _F	G	SKEW ANGLE
PEDESTAL																									
P1	P2	P3	P4	P5	P6																				

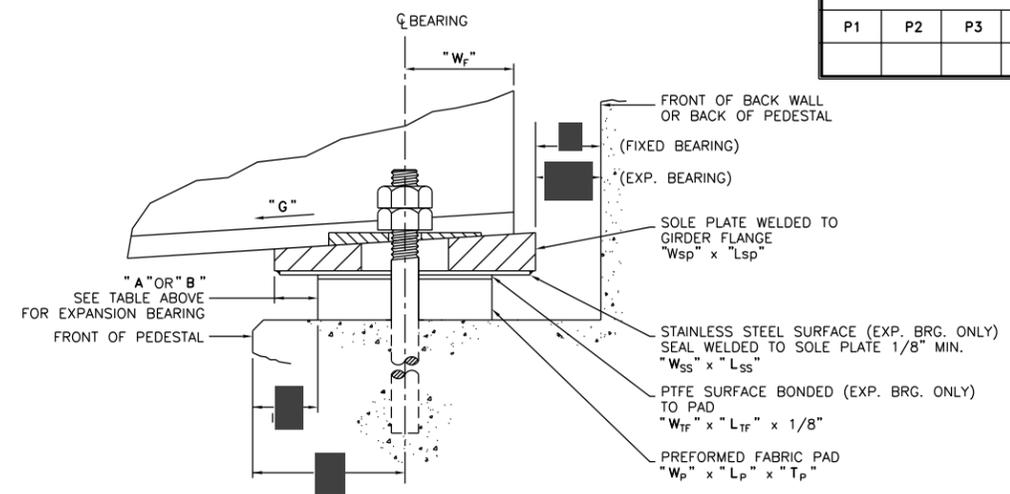
**HOLE SIZE IN SOLE PLATE DEPENDENT ON: AMOUNT OF ROTATION IN FIXED BEARINGS. AMOUNT OF TRANSLATION IN EXPANSION BEARINGS



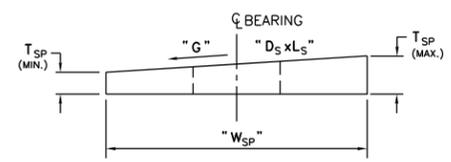
PLAN



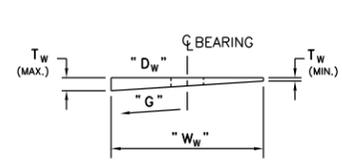
SECTION A-A



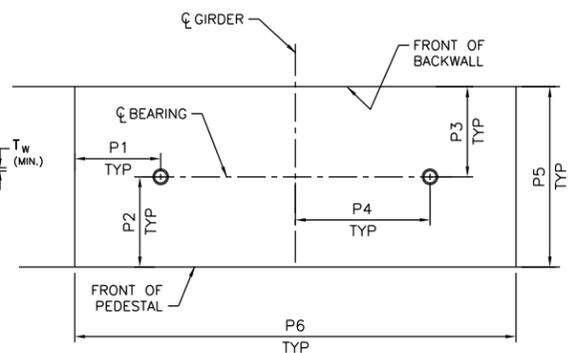
SECTION B-B



SOLE PLATE DETAIL



WASHER DETAIL



PEDESTAL/ANCHOR BOLT LAYOUT

{ NOTE: "}" INDICATES NOTES TO DESIGNER. DO NOT INCLUDE IN CONTRACT DRAWINGS. }

PE STAMP & SIGNATURE ARE REQUIRED ON THIS SHEET.

DATE	DESCRIPTION	BY	SYM.
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REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
TITLE OF PROJECT LINE 1
TITLE OF PROJECT LINE 2

LOCATION OF PROJECT
LOCATION OF PROJECT LINE 1
LOCATION OF PROJECT LINE 2

TITLE OF DRAWING

PREFORMED FABRIC BEARING DETAILS

CONTRACT NUMBER: TA

DATE: 3/10

DRAWING NUMBER: *