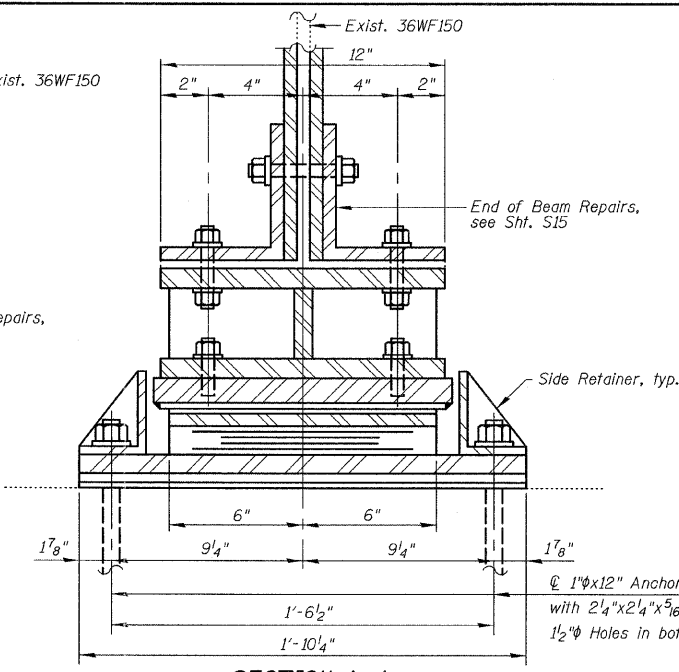


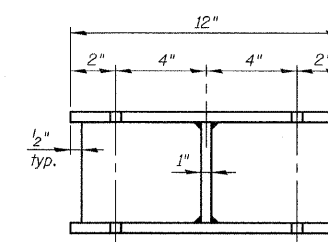
ELEVATION

PROPOSED TYPE II ELASTOMERIC EXP. BRG. WITH FABRICATED STEEL EXTENSIONS

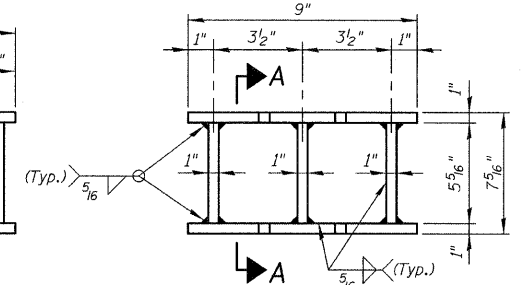
(at South & North Abutments)
(16 required)



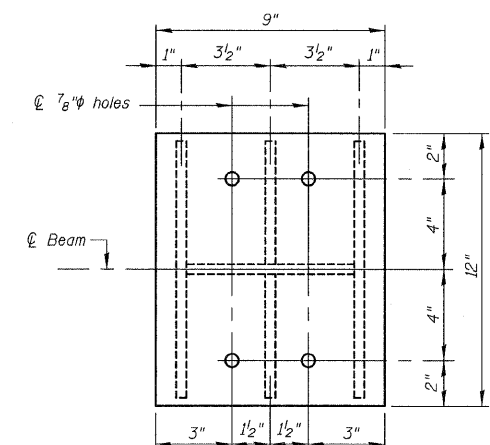
SECTION A-A



SECTION A-A



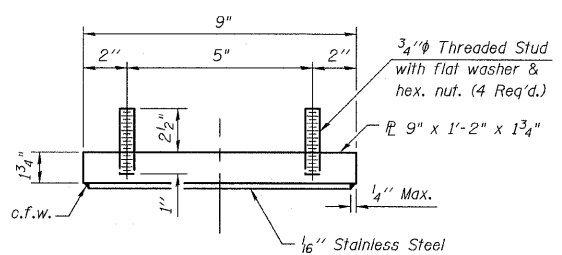
ELEVATION



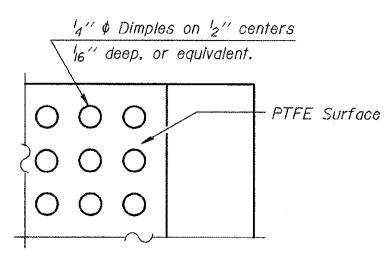
TOP & BOTTOM PLATE PLAN

STEEL EXTENSION DETAIL
(16 required)

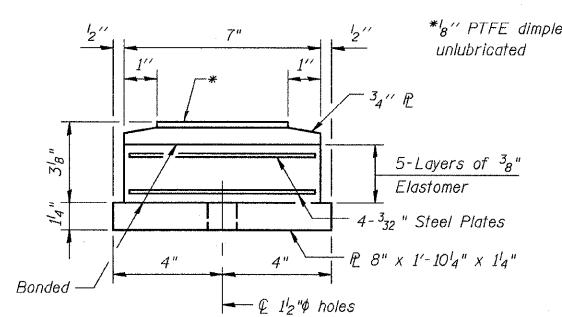
Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts for Type II bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Side retainers and other steel members required for the elastomeric bearing assembly, including steel extensions, shall be included in the cost of Elastomeric Bearing Assembly, Type II.
The 1/8 inch PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
Bonding of 1/8 inch PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.
The Contractor shall submit plans for jacking the existing Superstructure for approval by the Engineer prior to commencing any work with the bearings. The submittal shall be prepared and sealed by a Licensed Structural Engineer in Illinois.
It shall be the Contractor's responsibility to verify all dimensions between the bottom of the bridge beams and the top of the bearing seat in the field prior to Construction or ordering of materials.
Two 1/2 inch adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
Prior to ordering any material, the Contractor shall verify, in the field, all bearing height and shim thickness dimensions.
The Contractor shall supply additional Shim Plates if required to bring devices to Grade. Cost included with Elastomeric Bearing Assembly, Type II.



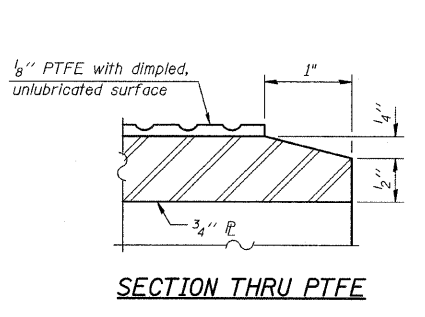
TOP BEARING ASSEMBLY



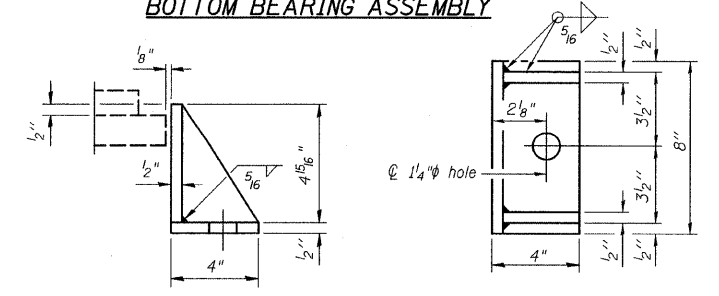
PLAN-PTFE SURFACE



BOTTOM BEARING ASSEMBLY

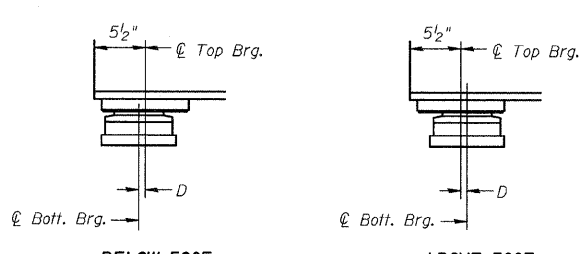


SECTION THRU PTFE



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates



SETTING ANCHOR BOLTS AT EXP. BRG.
(Move bott. brg. away from fixed brg.) (Move bott. brg. toward fixed brg.)

BEAM REACTION TABLE
(at South & North Abutment)

	South Abutment	North Abutment
R ₀	(k) 20.7	20.7
R ₁	(k) 35.2	35.2
R _{Imp.}	(k) 10.3	10.3
R (Total)	(k) 66.2	66.2

Minimum Jack capacity at each bearing = 50 tons

SHIM PLATE TABLE

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7	Beam 8
South Abutment - "t ₅ "	-	3/8"	-	-	5/8"	5/8"	3/8"	-
North Abutment - "t ₅ "	-	3/8"	-	-	-	-	-	3/8"

BILL OF MATERIAL

Item	Unit	Quantity
Elastomeric Bearing Assembly, Type II	Each	16
Anchor Bolts, 1"	Each	32
Jack and Remove Existing Bearings	Each	16

FILE NAME = I:\1022005_Centrol_Ave_Structural\CADD_Sheets\160917-16-bearing_det_abutments.dgn

CHRISTIAN-ROGE & ASSOCIATES, INC.

USER NAME = IDOT	DESIGNED - J.C.N./B.N.S.	REVISED -
PLOT SCALE = 50.000000 ' / IN.	CHECKED - B.N.S.	REVISED -
PLOT DATE = 12/10/2011	DRAWN - F.M.	REVISED -
	DATE - DECEMBER 9, 2011	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BEARING DETAILS-SOUTH & NORTH ABUTMENTS
STRUCTURE NO. 016-2458
SHEET NO. 516 OF 524 SHEETS

F.A.I. RTE. 80	SECTION 1415-803HB-R	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 31
				CONTRACT NO. 60P17
ILLINOIS FED. AID PROJECT				