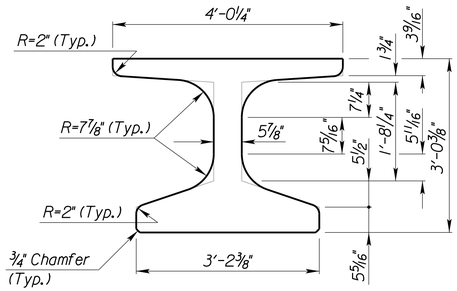
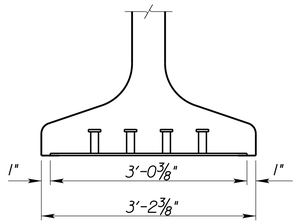


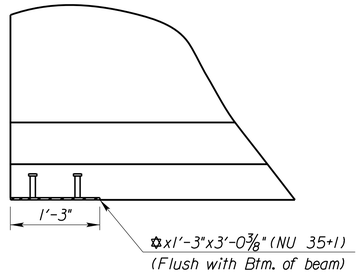
TYPE NU35+1

Area	696.5	In.^{2}
IcG	127,937	In.^{4}
Y Bot	17.49	In.
Vol./Surf. Area	3.30	In.
Wt./Ft.	725	Lbs

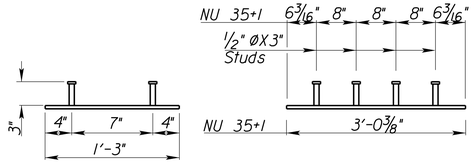
TYPICAL BEAM SECTION



END VIEW
(NU 35+1 Beam)



ELEVATION



Elev. of Brg. Plate — Typical Section

BEARING PLATE DETAILS

*Prior to shipping, the camber shall be no greater than the design camber + 1/2". The design camber is equal to the 50 day camber shown in the plans.

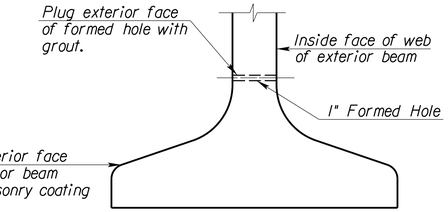
✡ Use 3/4" ℄ when field welding will occur, otherwise use 1/2" ℄.

Note: Stud welding will be in accordance with the latest edition of AWS D1.1.

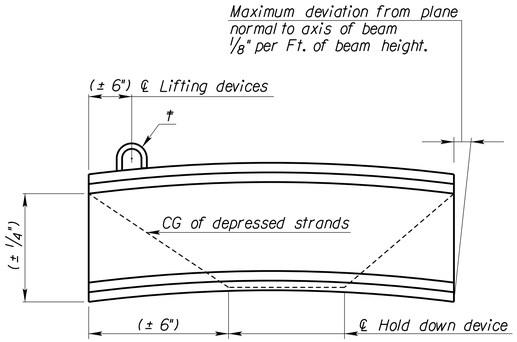
Use plate conforming to the requirements of ASTM A709 Grade 36. The stud anchors will be made of material as specified for Shear Connector Studs in the KDOT Specifications.

The exposed surface of the bearing plates shall be galvanized.

All work and material to install the bearing plates shall be subsidiary to the bid item "Prestressed Concrete Beam (NU 35+1)".



DETAIL OF FORMED HOLE(S)
(See Beam Detail sheet for locations)



ELEVATION

Note: Dimensions shown in parentheses are tolerances only.

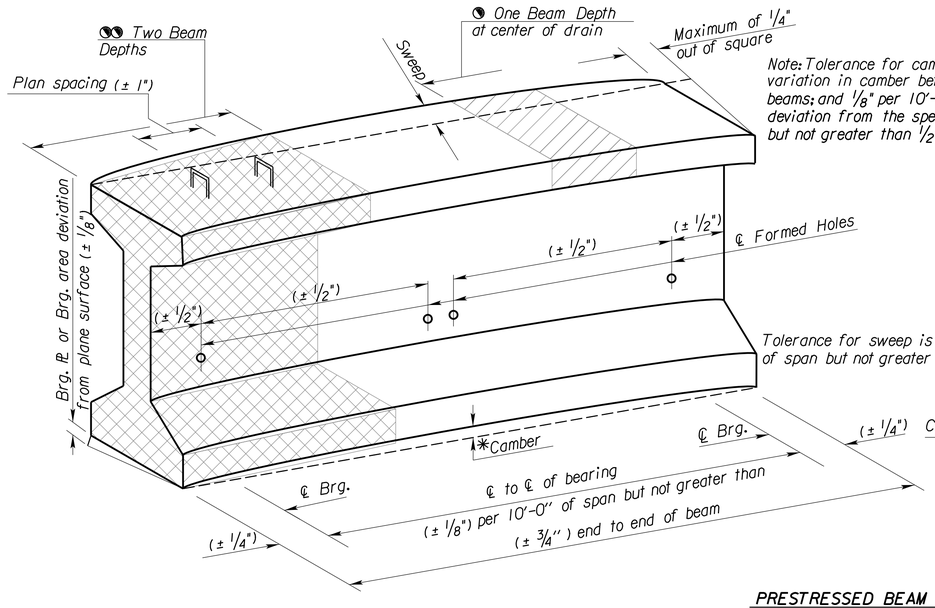
CG = Center of Gravity

Lifting Devices shall be designed by the Fabricator. Submit shop drawings and design calculations bearing the seal of a licensed Kansas Professional Engineer to the Engineer for review prior to fabrication.

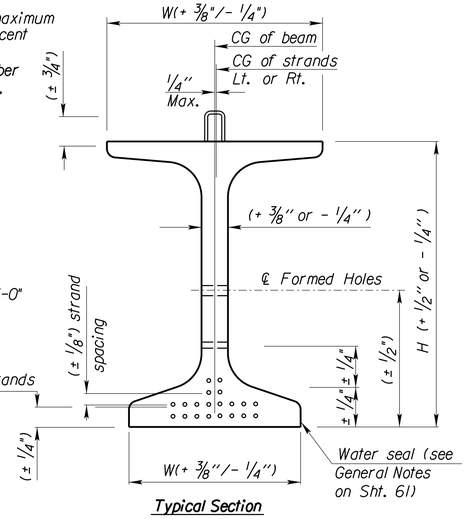
◔ At bridge deck drain locations coat beam with approved epoxy substructure waterproofing membrane.

◔◔ At expansion joint locations coat beam with approved epoxy substructure waterproofing membrane.

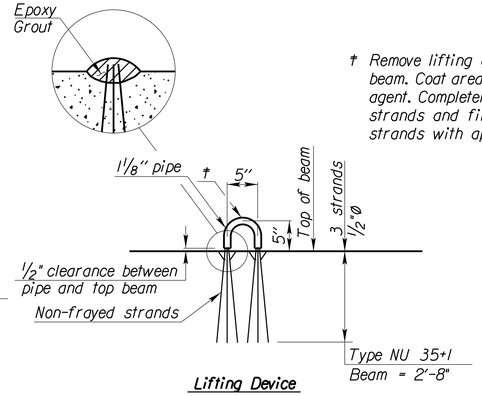
Note: Dimensions shown in parentheses are tolerances only.



Note: Tolerance for camber is 1" maximum variation in camber between adjacent beams; and 1/8" per 10'-0" of span deviation from the specified camber but not greater than 1/2" deviation.



Typical Section



Lifting Device

† Remove lifting device within 1/2" from top of beam. Coat area with approved epoxy bonding agent. Completely cover remaining exposed strands and fill depressions adjacent to strands with approved epoxy grout.

PRESTRESSED BEAM FABRICATION TOLERANCES

CITY OF WICHITA

wsp

HARRY STREET BRIDGE
OVER ARKANSAS RIVER

STRUCTURE NO. 430400876 30AR40

STANDARD PRESTRESSED CONCRETE BEAM DETAILS

REVISIONS

NO.	DATE	DESCRIPTION

PROJ NO:	35838B
SCALE:	AS NOTED
DATE:	.
DESIGNED BY:	--
DRAWN BY:	--
CHECKED BY:	--
YEAR:	2019

SHEET NO
58
SHEET 58 OF 135

Plotted : 10/3/2019 2:14:31 PM File : T:\35838A-COW_HarryStBridge\Cadd\Sheets\Structures\838BDT1.dgn