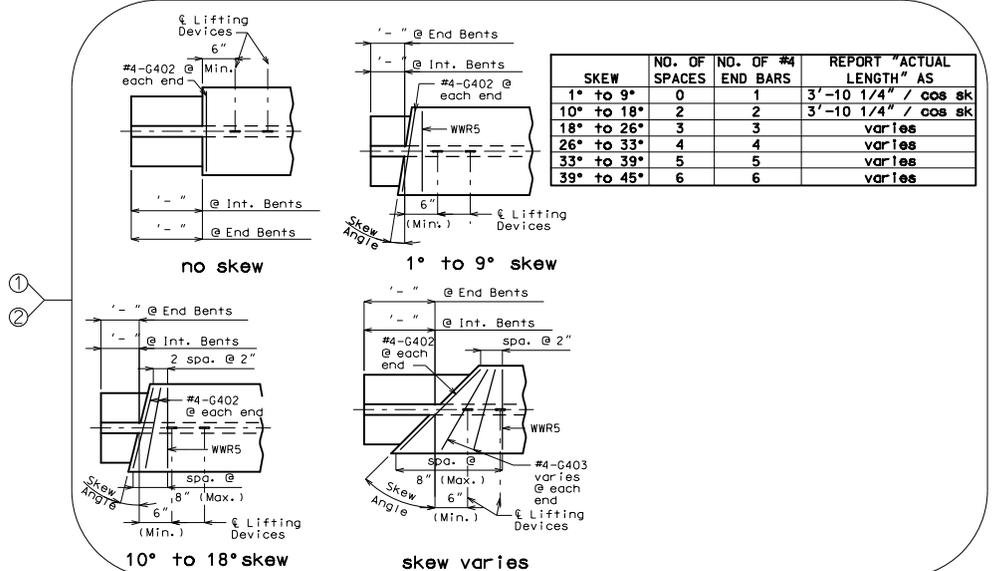


Standard Drawing Guidance (do not show on plans):

- ① Choose one of the 4 details for "TOP FLANGE BLOCKOUT DETAIL".
- ② Blockout shall be dimensioned 1 1/2" from the inside face of the diaphragm.
- ③ Max. strand arrangement shown in details including top straight strands. Remove unnecessary strands. Give spacing of top straight strands if used.
- ④ This detail only needs to be used if the structure is over water. For all other crossings remove this detail.
- ⑤ Modify note as necessary. Indicate 10 strands for NU 35.
- ⑥ Provide number of #6-B2 Bar Pairs and show each. Place #4-D1 bars with each Pair-#6-B2.
- ⑦ By design: Use 3/8" strands for reinforcement support and WWR5 to resist camber and temporary stress. Only add A1 deformed bars if strands and WWR5 are not sufficient.
- ⑧ Use for open diaphragms. Omit note about length of coil tie rods at exterior girders.
- ⑨ Adjust dimension for modified flange thickness.
- ⑩ Modify for CIP slabs.



NU_63_WWR.dgn Effective: Jan 2015 Supersedes: July 2014

Concrete for prestressed girders shall be Class A-1 with $f'_c = 8000$ psi and $f'_{ci} = 6500$ psi.

(+) indicates prestressing strand.

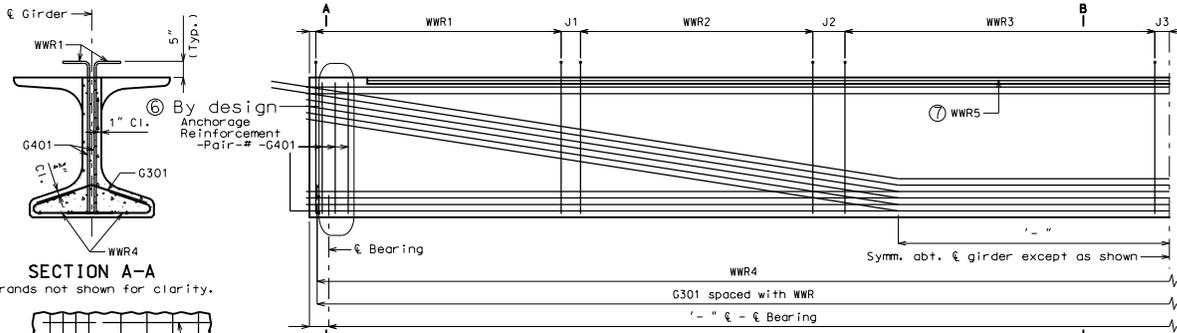
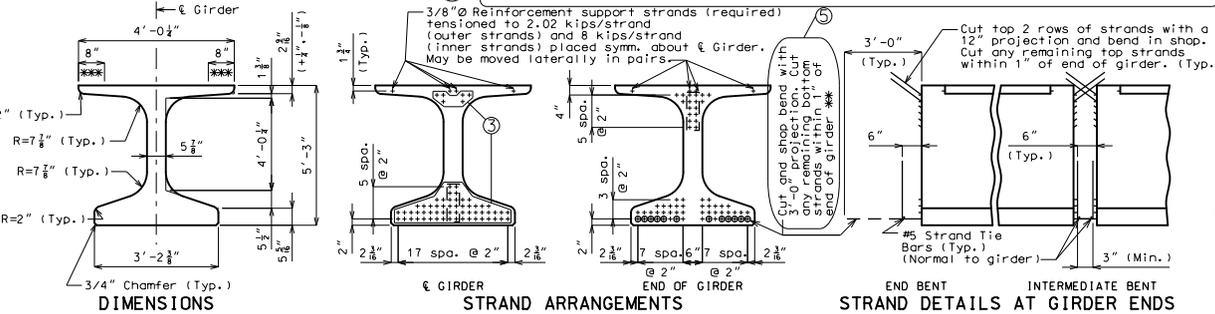
Use strands with an initial prestress force of _____ kips.

Prestressing tendons shall be uncoated, seven-wire, low-relaxation strands, 0.6 inch diameter in accordance with AASHTO M 203, Grade 270. Prestensioned members shall be in accordance with Sec 1029.

Fabricator shall be responsible for location and design of lifting devices.

At the contractor's option the location for bent-up strands may be varied from that shown. The total number of bent-up strands shall not be changed. One strand tie bar is required for each layer of bent-up strands except at end bents which require one bar on the bottom layer of strands only. No additional payment will be made if additional strand tie bars are required.

Girder top flange shall be steel troweled to a smooth finish for 8" at the edges, as shown. Apply two layers of 30-lb roofing felt as a band breaker to this region only excluding where joint filler is applied. The center portion shall be rough finished by scarifying the surface transversely with a wire brush, and no laitance shall remain on the surface.



REINFORCEMENT PLACEMENT DETAIL

1/2" Bearing Plate (ASTM A709 Grade 36) and Two Welded Studs (1/2" x 5")

3/4" x 3/4" x 18" chamfer block out (Typ.)

Galvanize the 1/2" bearing plate (ASTM A709 Grade 36) in accordance with ASTM A123.

Cost of furnishing, galvanizing, and installing the 1/2" bearing plate (ASTM A709 Grade 36) and welded studs in the prestressed girder will be considered completely covered by the contract unit price for Prestressed Concrete NU-Girder.

End of girder

Four Welded Studs (1/2" x 5")

Vertical wire spacing
L = Length of WWR mats
J = Distance between WWR mats

3/8" Reinforcement support strands not shown for clarity.

Exterior and interior girders are the same, except for coil ties, and coil inserts for slab drains and holes for steel intermediate diaphragms.

3/8" Reinforcement support strands (required) tensioned to 2.02 kips/strand (outer strands) and 8 kips/strand (inner strands) placed symm. about ϵ Girder. May be moved laterally in pairs.

Cut top 2 rows of strands with a 12" projection and bend in shop. Cut any remaining top strands within 1" of end of girder. (Typ.)

#5 Strand Tie Bars (Typ.) (Normal to girder)

3" (Min.)

WWR1, WWR2, WWR3, WWR4, WWR5

WWR4 spaced with WWR

Symm. abt. ϵ girder except as shown

WWR4

WWR5

WWR1, WWR2 & WWR3

WWR4

WWR5

WWR1, WWR2 & WWR3