## P.P.C. I–BEAM DETAILS S.N. 021-2011

\*Prestressing strands from existing beam shall be cleaned, straightened and incorporated into new construction. Any strands that are damaged during concrete removal shall be replaced with an approved bar splicer or - ¢ Pier anchorage system. Cost included with Concrete Removal. m 6 \_ m(E) -End of beams <u>\*Tightly fasten #8 G6 bars together with 2</u> strands from existing beam with No. 9 wire -¢ Beam To outside face of bar, typ. ties. Tie remaining G strands to m(E) bar. \_ Ň  $\vdash$  ---\_ \_\_\_\_ -3″ Radius mle Bottom of beam--G strands (existing) - Prestressing strands (existing) —1′₄″ ¢ Conduit -Top of Beam ELEVATION OF BEAM AT PIER PLAN OF BEAM AT PIER 3 - ½″φ 270 ksi strands Tapped holes for  $3_{a}^{\prime\prime}$   $\phi$  threaded rods 2" spa. Q \_5"  $1^{3}_{8}$ "\$\phi\$ holes for  $1^{l}_{4}$ " pintles € 1″ ¢ holes for 6″ (plug holes before casting beam) ³₄′′ ¢ threaded rods Fan at ±6″ cts. Fan at <u>34'' φ</u> Veni —€ Ream 00 holes 3<sub>4</sub>" LIFTING LOOP DETAIL –€ Beam └\_@ Beam \_2" a" 1'-4" End of 1'-4" End of End of ROCKER/BOTTOM PLATE TOP PLATE ROCKER/BOTTOM PLATE (Showing threaded rods) (Showing studs and pintle locations)  $\frac{Outside}{R = 2^{3}4'}$  $\frac{Outside}{R = 2^{3}a^{2}}$ ∉ 1<sup>3</sup>8" ¢ holes for 14" pintles End of beam 45 60' Rad,  $-1'_{2}"$ BAR GI ROCKER PLATE - SIDE ELEVATION FILE NAME = DESIGNED - GMS REVISED USER NAME = shererjm P.P.C. I-BEAM DETAILS STATE OF ILLINOIS c:\pw\_work\PWIDOT\SHERERJM\d0134546\D5 0251-sht-structures.dgn DRAWN GMS REVISED S.N. 021-20 LOT SCALE = 40.0001 // IN. CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** 

DATE

REVISED

PLOT DATE = 12/9/2009

SCALE:

## NOTES

Inserts for  ${}^{3}_{4}{}^{\prime\prime}\phi$  threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be  $^{\rm I_2\prime\prime\prime}$  and the nominal cross-sectional area shall be 0.153 sq. in.

Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).

A minimum  $2^{l_{2}^{\prime\prime}}\phi$  lifting pin shall be used to engage the lifting loops during handlina,

Tilt  $G_6$  bars when necessary to maintain  $1_2^{\prime\prime}$  clearance.

The top and bottom plates shall be AASHTO M270 Grade 50.

The bottom plates and studs shall be galvanized according to AASHTO M111. Top plates and threaded rods need not be galvanized.

Threaded rods shall be ASTM F1554 Grade 55.



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