

LIFTING LOOP DETAIL

-3" Radius

Top of Beam

270 ksi strands

-1 ¼ ″ Ø Conduit



Contract # 74237

<u>NOTES</u>

Inserts for 34" \$\phi\$ threaded dowel rods, when specified, are to be two strut, coil type for interior beams and single coil, flared loop type for exterior beams.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.

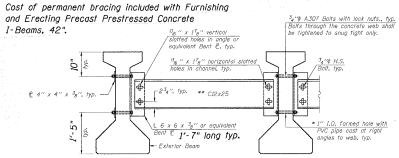
The nominal diameter shall be $\frac{1}{2}$ " and the nominal cross-sectional area shall be 0.153 sq. in.

Non-prestressing steel shall conform to ASTM A 706 (IL MOD), Grade 60.

A minimum $2l_2^{\prime\prime}$ ϕ lifting pin shall be used to engage the lifting loops during handling.

The bottom plates and study shall be galvanized according to AASHTO

Threaded rods shall be ASTM F 1554 Grade 55.



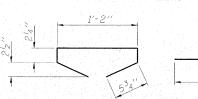
Notes:
All material for brocking shall be hat dip galvanized according to AASHTO MIII unless atherwise noted.
Two bardened washers are required for each set of oversized holes.
All holes shall be "\$\frac{\text{\text{\$M\$}}}{\text{\$m\$}}\" winless otherwise noted.
\$\frac{\text{\text{\$\text{\$h\$}}}}{\text{\$m\$}}\" x 3" x 3" plate washers are required over all slatted holes.
All boits shall be galvanized according to AASHTO M232.
Bracing shall be installed as beams are erected and tightened as soon as possible during erection.

within permissible tolerances.

** Alternate C12x30 channels are permitted to facilitate material acquisition.

The alternate, if utilized, shall be provided at no extra cost to the Department.

PERMANENT BRACING DETAILS



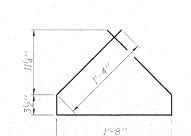
BAR G5

BAR G6

Outside

3'-0"

Cut G_6 bars when necessary to maintain $1_2^{\prime\prime}$ clearance. The top and bottom plates shall be AASHTO M270 Grade 50.



BAR G4



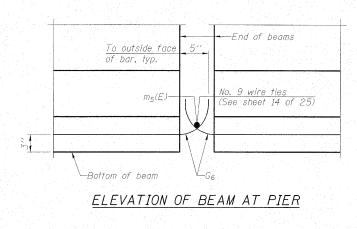
BAR GI

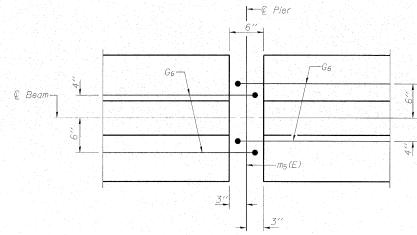
BAR G2

BILL OF MATERIAL

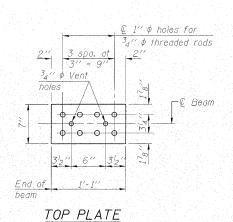
<u>Item</u>	Unit	Total
Furnishing and Erecting Precast		100
Prestressed Concrete	Ft.	1137
I-Beams, 42"		

42" PPC I-BEAM DETAILS IL ROUTE 121 OVER BIG MUDDY CREEK F.A.P. RTE. 773 - SECTION (109B)B-1 CUMBERLAND COUNTY STATION 574+84.00 STRUCTURE NO. 018-0063



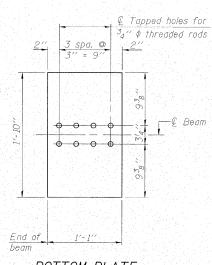


PLAN OF BEAM AT PIER

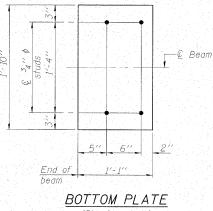








BOTTOM PLATE (Showing threaded rods)



(Showing studs)

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