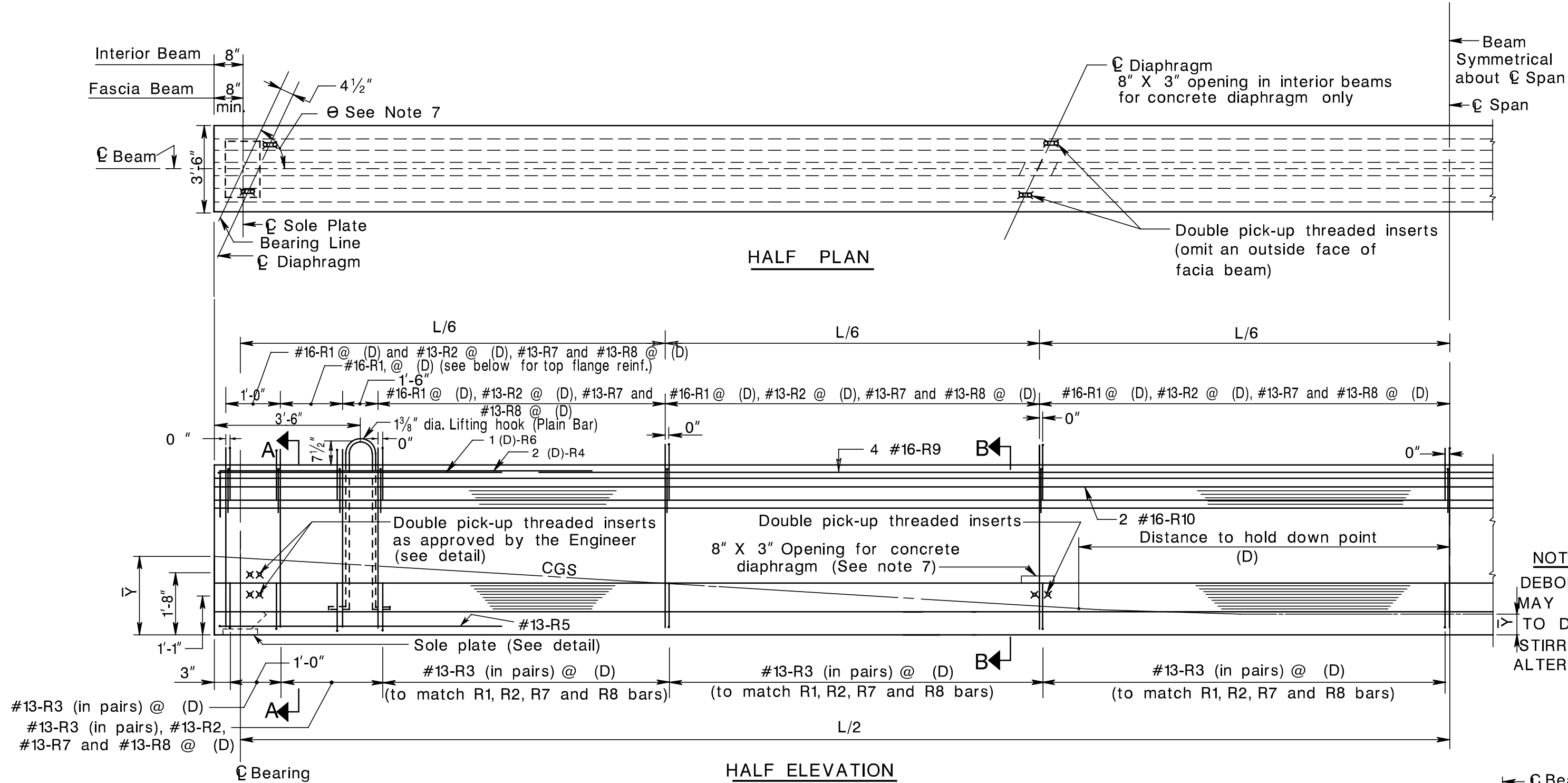


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CONTROL SECTION		JOB NO.	
DES. BY		CHK. BY	
DWN. BY		CHK. BY	
EST. BY		CHK. BY	
SPECS. BY		CHK. BY	
IN CHARGE OF			

(D)

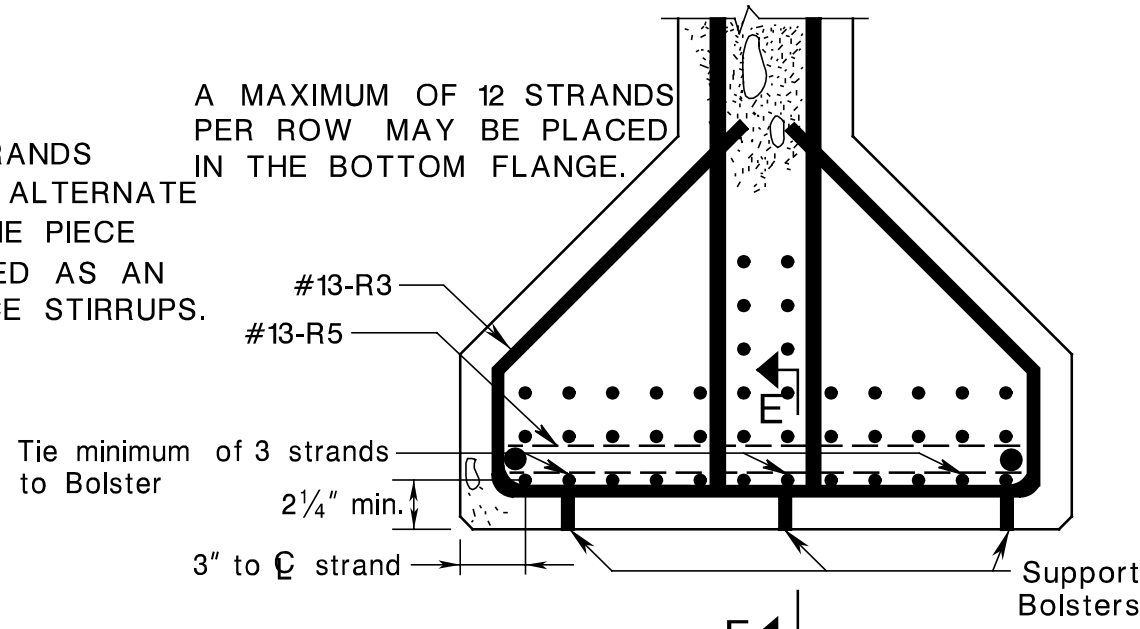


SCHEDULE OF MILD STEEL REINFORCEMENT										
NO.	MARK	SIZE	LENGTH	TYPE	A	B	C	D		
(D)	* R1	#16	11'-6 3/4"	1	5'-6"	5 5/8"	—	—		
(D)	* R2	#13	6'-7 3/4"	5	1'-7"	4"	2 1/2"	3'-3"		
(D)	R3	#13	3'-5 5/8"	3	10 3/4"	10 3/4"	6"	1'-8"		
(D)	* R4	(D)	10'-6"	2	9'-0"	1'-6"	—	—		
(D)	* R5	#13	17'-0"	2	7'-6"	2'-0"	7'-6"	—		
(D)	* R6	(D)	20'-11"	2	9'-0"	3'-0"	9'-0"	—		
(D)	R7	#13	2'-1"	4	5"	6 1/2"	6 1/2"	—		
(D)	* R8	#13	6'-7"	6	—	—	—	—		
(D)	* R9	#16	(D)	STR.						
(D)	R10	#16	(D)	STR.						

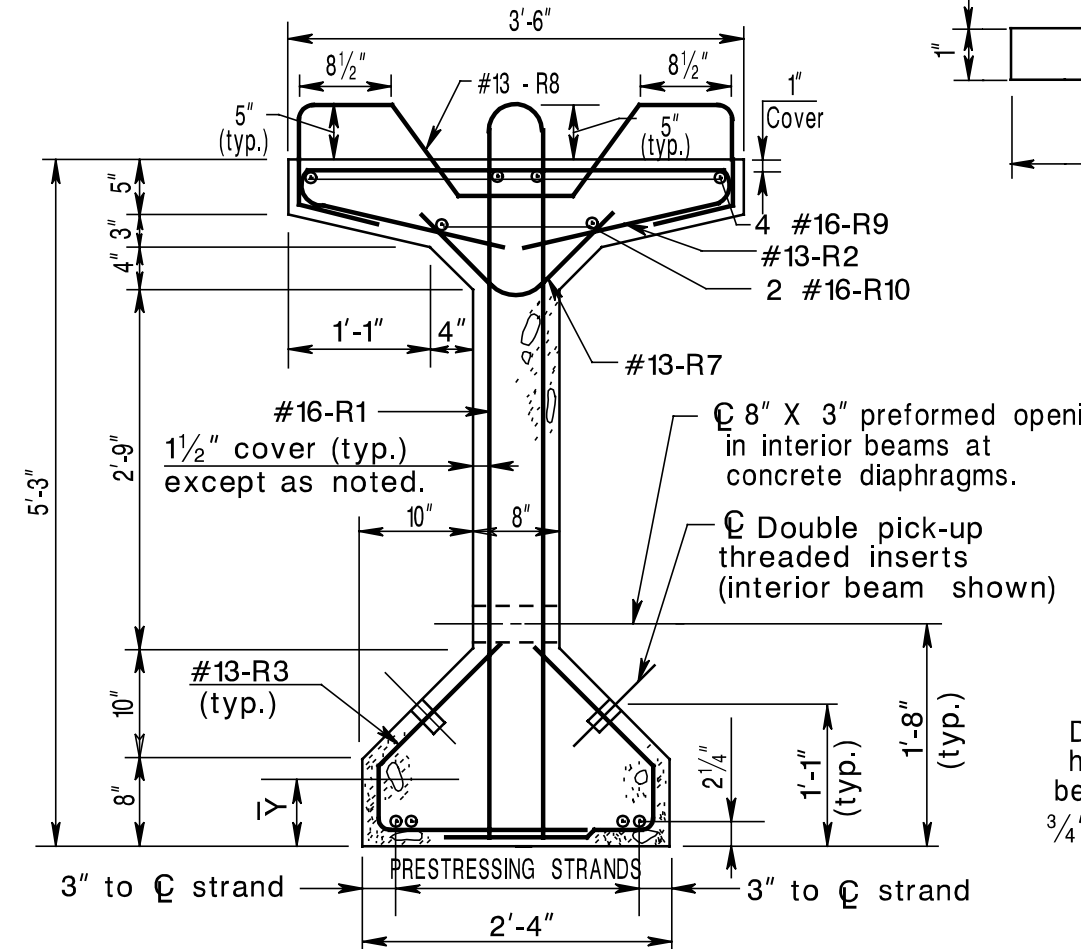
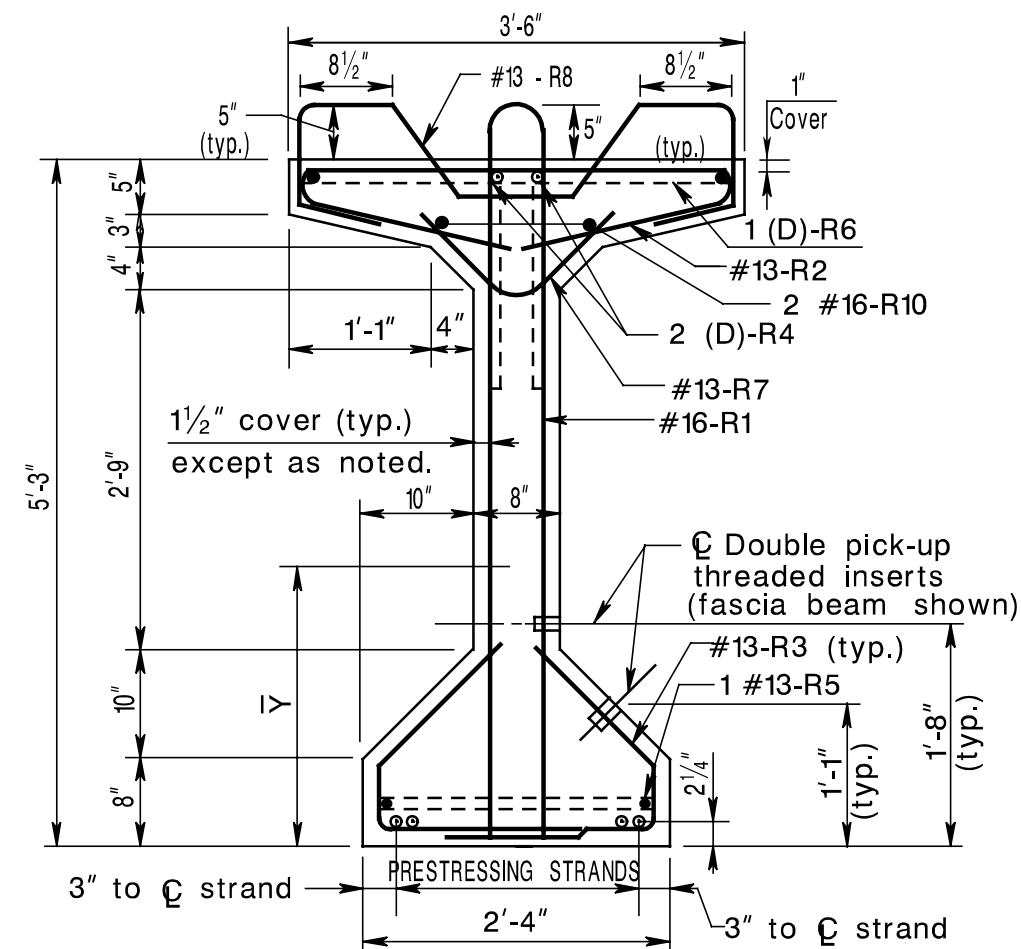
* CORROSION PROTECTED BARS (REFER TO SECTION 26 OF THIS MANUAL FOR TYPES OF CORROSION PROTECTED REINFORCEMENT STEEL THAT CAN BE USED)

NOTE:
DEBONDED STRAIGHT STRANDS
MAY BE UTILIZED AS AN ALTERNATE
TO DRAPED STRANDS, ONE PIECE
STIRRUPS MAY BE UTILIZED AS AN
ALTERNATE TO TWO PIECE STIRRUPS.

A MAXIMUM OF 12 STRANDS
PER ROW MAY BE PLACED
IN THE BOTTOM FLANGE.



STRAND SUPPORT BOLSTER

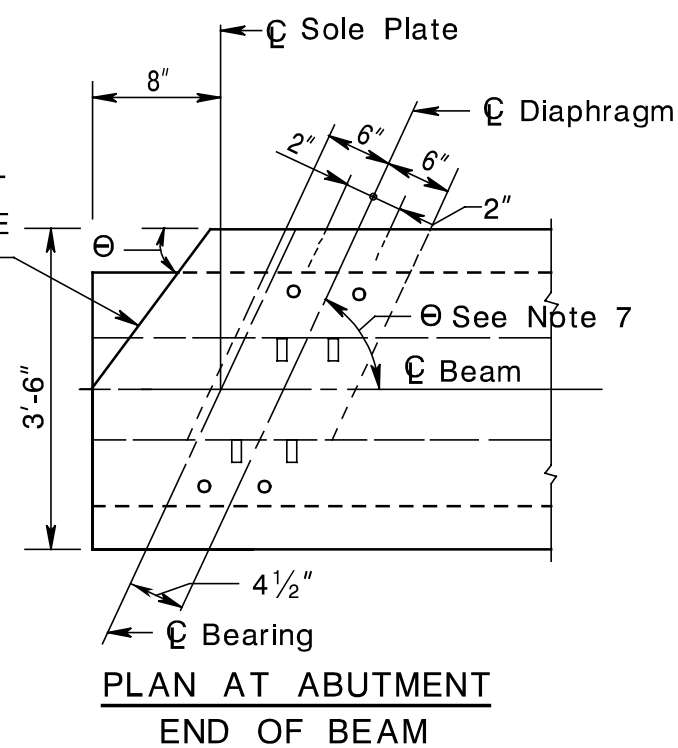


TYPICAL BEAM SECTIONS

NOTE : $\bar{Y}$ LOCATES CENTROID OF
STEEL PRESTRESSING GROUP

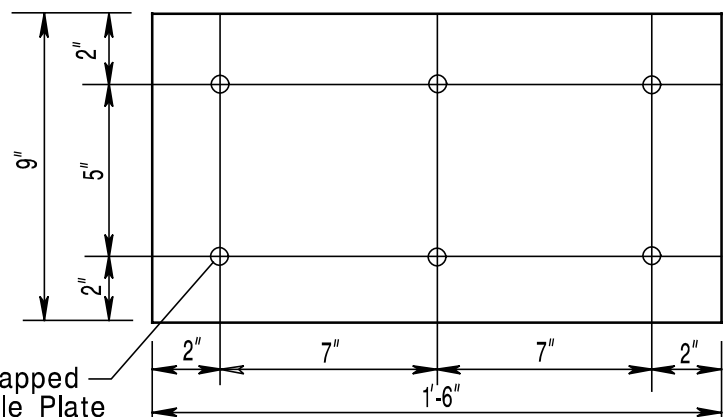
NOTE : OMIT THREADED INSERTS ON
OUTSIDEFACE OF FASCIA BEAM

NOTE : ON MODERATE TO HIGH SKEWS, IT
MAY BE NECESSARY TO FORM THE
TOP FLANGE AS SHOWN HERE

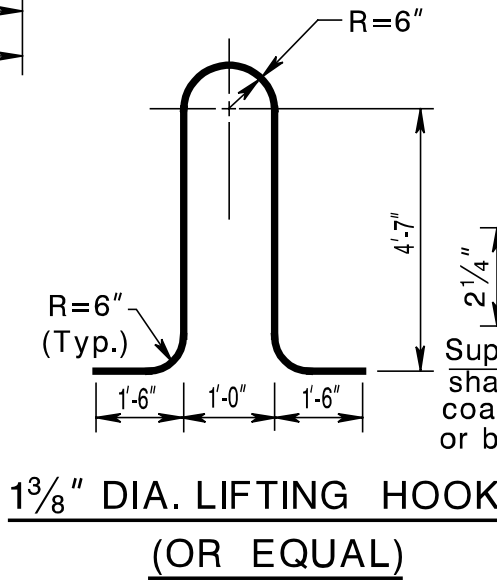


PLAN AT ABUTMENT
END OF BEAM

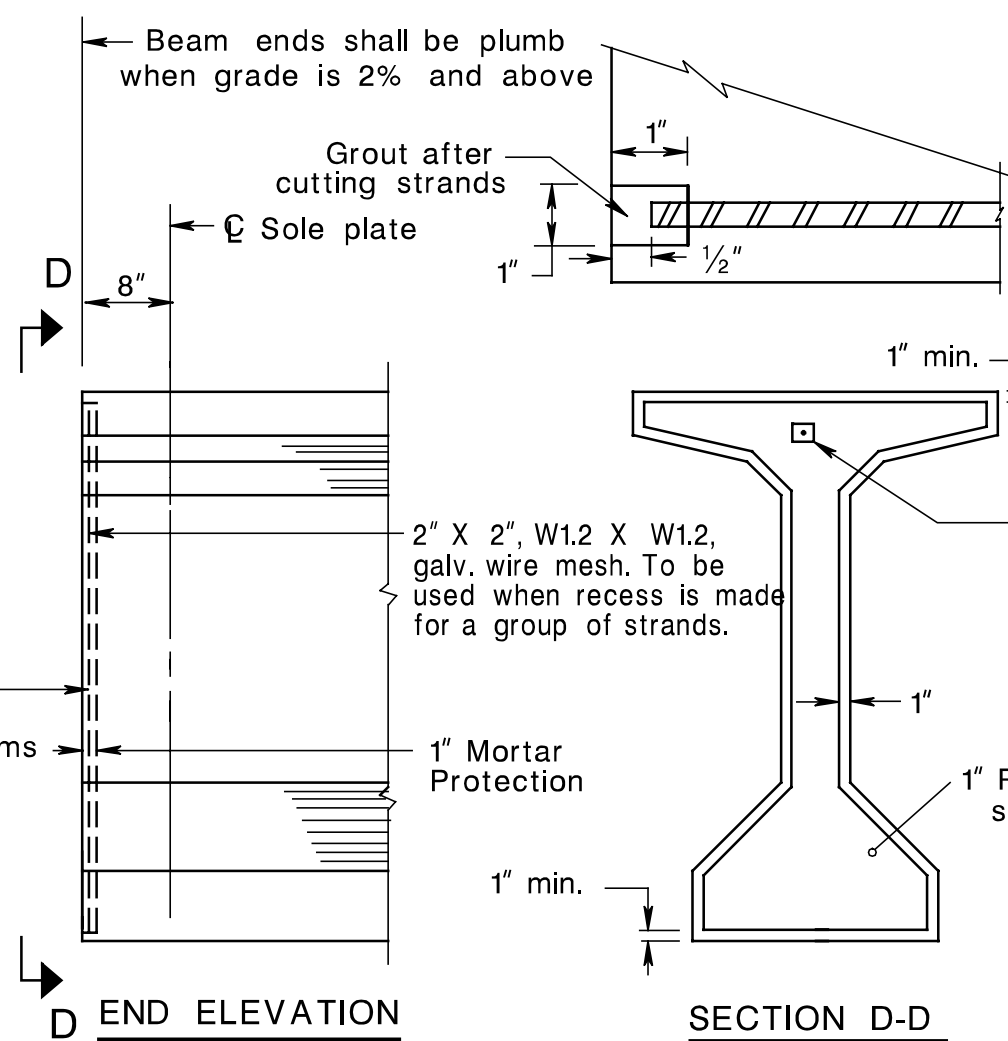
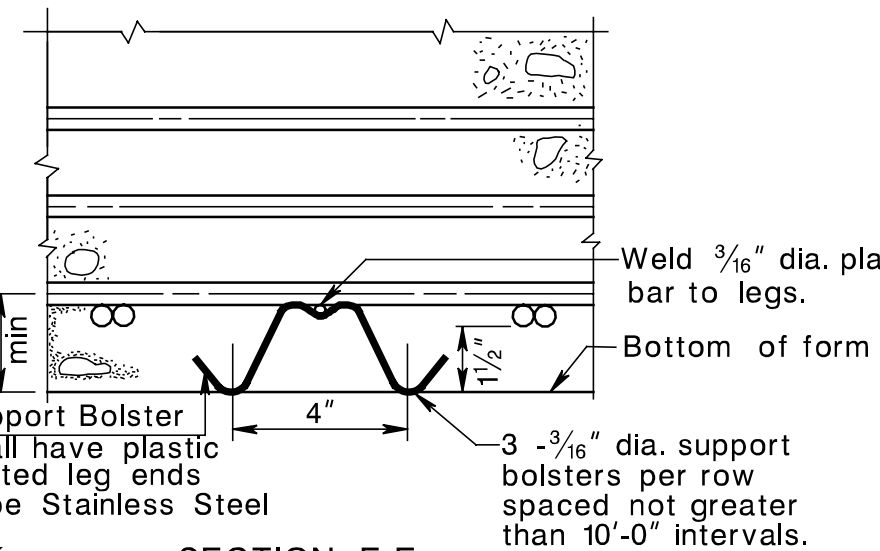
SOLE PLATE



VIEW C-C



SECTION E-E



GROUTED RECESS FOR STRAND
AT BEAM ENDS

GENERAL NOTES

- DESIGN SPECIFICATIONS
(D) The AASHTO LRFD Bridge Design Specifications, with current interims, as modified by Section 3 of the NJDOT Design Manual for Bridges and Structures.
- LIVE LOAD
HL-93 or NJDOT Permit Vehicle, whichever governs.
- PRESTRESSING STEEL
The pretensioning strands to be 1/2" dia. or 0.6" dia., 7-wire uncoated steel strands conforming to current AASHTO M203, Grade 270 and shall be low relaxation strands. Each strand shall be given an initial tension of 0.75 f's x A_s as specified in applicable sections of the PCI Design Handbook - Precast and Prestressed Concrete. Any change in the system of prestressing must be accompanied by complete calculations for approval by the Engineer.

CONCRETE DESIGN STRESSES

- Design compressive strength (f'c) = _____ psi, class _____ concrete,
(D) Compressive strength at prestress (f'ci) = _____ psi.

CONCRETE

- All exposed corners shall be chamfered 3/4" or rounded to 3/4" radius. Angles of intersection between webs and flanges shall be rounded to not less than 3/4" radius. Top surface of beams shall be roughened to the satisfaction of the Engineer. At approximate time of initial set all laitance shall be removed with a stiff wire brush.

SOLE PLATES

- Cost of Sole Plates shall be included in price bid for Prestressed Concrete Beams. Sole Plates shall be galvanized as per Specifications.

DIAPHRAGMS

- For the angle θ between the center line of beam and center line of diaphragms or bearings reference the Framing Plan.

MILD STEEL REINFORCEMENT

- Reinforcement bars shall conform to ASTM A615, Grade 60. Minimum clear cover shall be 1 1/2" unless otherwise noted. Cost of furnishing and placing reinforcement steel shall be included in the price bid for Prestressed Concrete Beams.

- For camber diagram see sheet No. B _____

BEAM NO.	$\bar{Y}$ MIDSPAN	$\bar{Y}$ ENDS	NO. OF STRANDS
(D)			

QUANTITIES			
PAY ITEM NO.	STANDARD ITEM NO.	DESCRIPTION	UNIT
(D)		PRETENSIONED PRESTRESSED CONCRETE BEAMS, 63"	L.F.



STANDARD DRAWING PLATE 2.4-3

NEW JERSEY DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURAL ENGINEERING

63" PRETENSIONED PRESTRESSED
CONCRETE BEAMS

ROUTE (D) SECTION

SCALE : _____ NONE
BRIDGE
SHEET NO. B _____ OF B _____

REVISION	BY	DATE