

GENERAL NOTES

1. DESIGN SPECIFICATIONS
- (D) The AASHTO LRFD Bridge Design Specifications, with current interims, as modified by Section 3 of the NDOT Design Manual for Bridges and Structures.
2. LIVE LOAD
- HL-93 or NDOT Permit Vehicle, whichever governs.
3. PRESTRESSING STEEL
- The prestressing strands shall 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 to 1.0 X As 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.
4. CONCRETE DESIGN STRESSES
- (D) Design compressive strength (f'c) = _____ psi class _____ concrete.
- (D) Compressive strength at prestress (f'ci) = _____ psi.
5. 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 ballance shall be removed with a stiff wire brush.
6. SOLE PLATES
- Cost of Sole Plates shall be included in price bid for Prestressed Concrete Beams. Sole Plates shall be galvanized as per Specifications.
7. DIAPHRAGMS
- For the angle Θ between the center line of beam and center line of diaphragms or bearings reference the Framing Plan.
8. 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 turning and placing reinforcement steel shall be included in the price bid for Prestressed Concrete Beams.
9. For camber diagram see sheet No. B _____

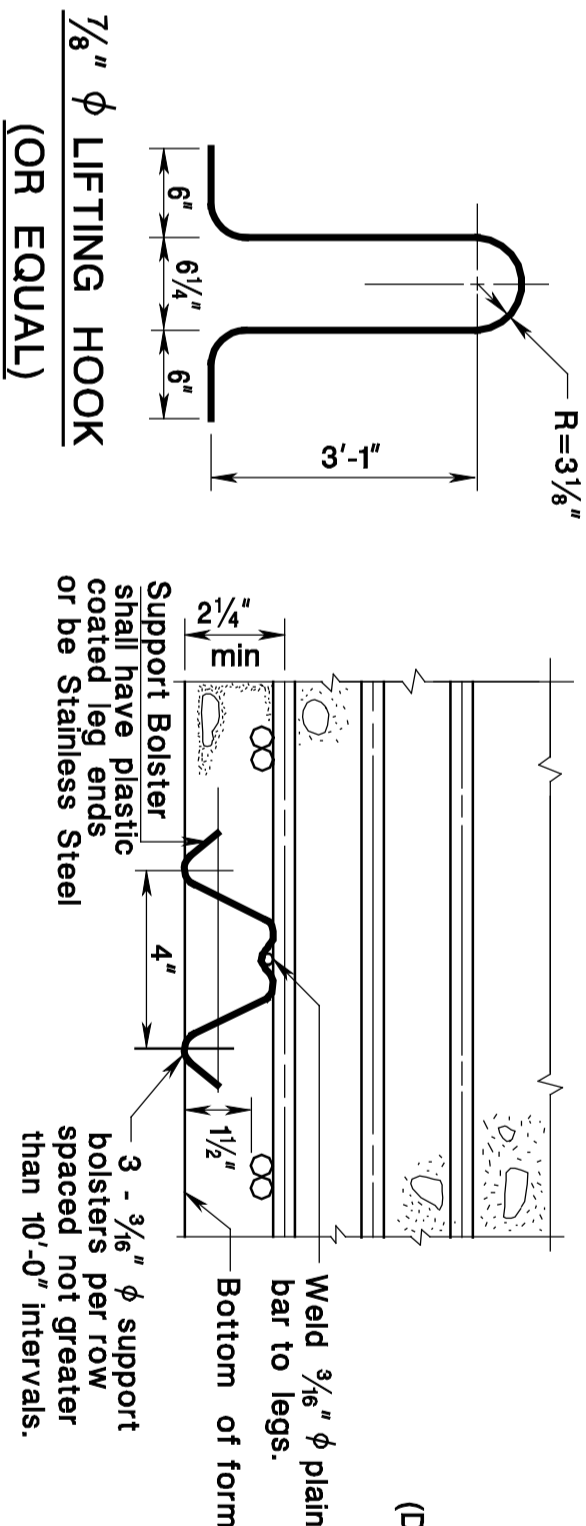
(D)

STRUCTURE NO.

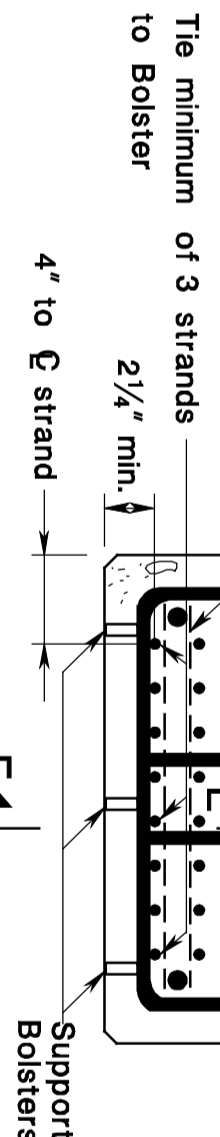
STRUCTURE NAME

BEAM NO.	Y MIDSPAN	Y ENDS	NO. OF STRANDS

QUANTITIES	DESCRIPTION	UNIT	CONTRACT QUANTITY
	PRETENSIONED PRESTRESSED CONCRETE BEAMS, 45"	L.F.	



STRAND SUPPORT BOLSTER



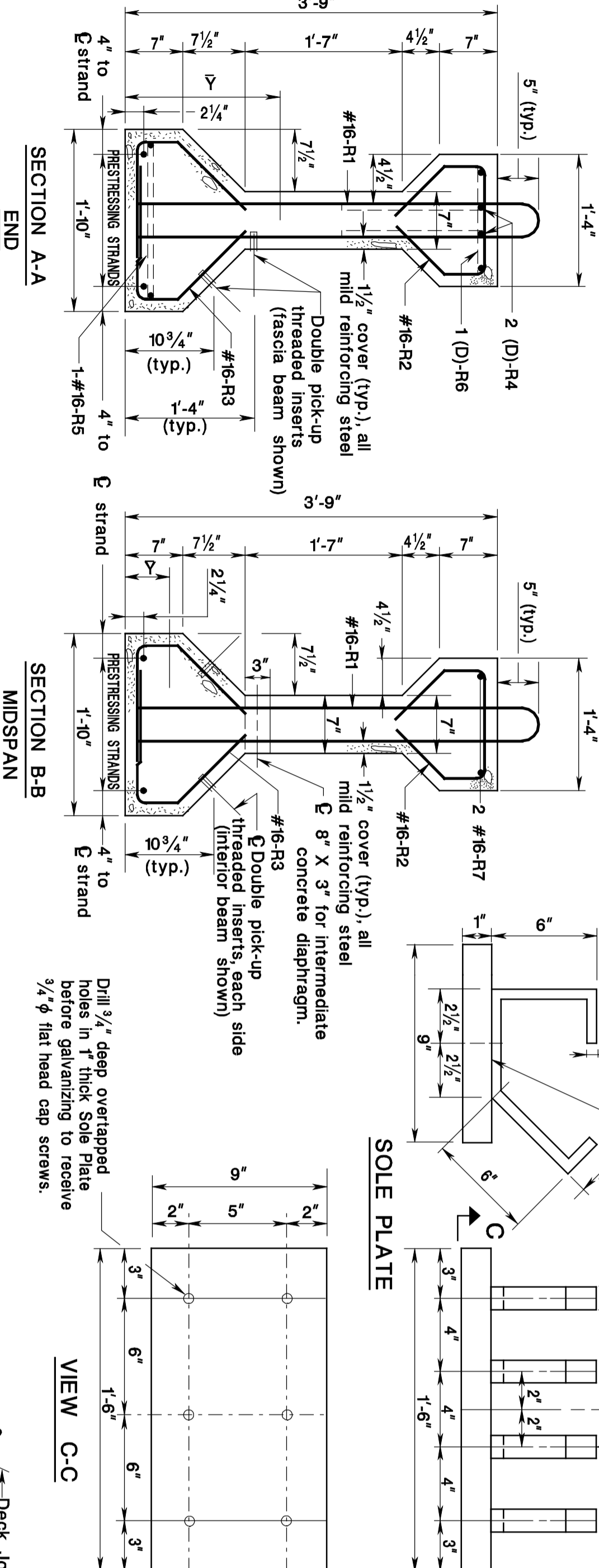
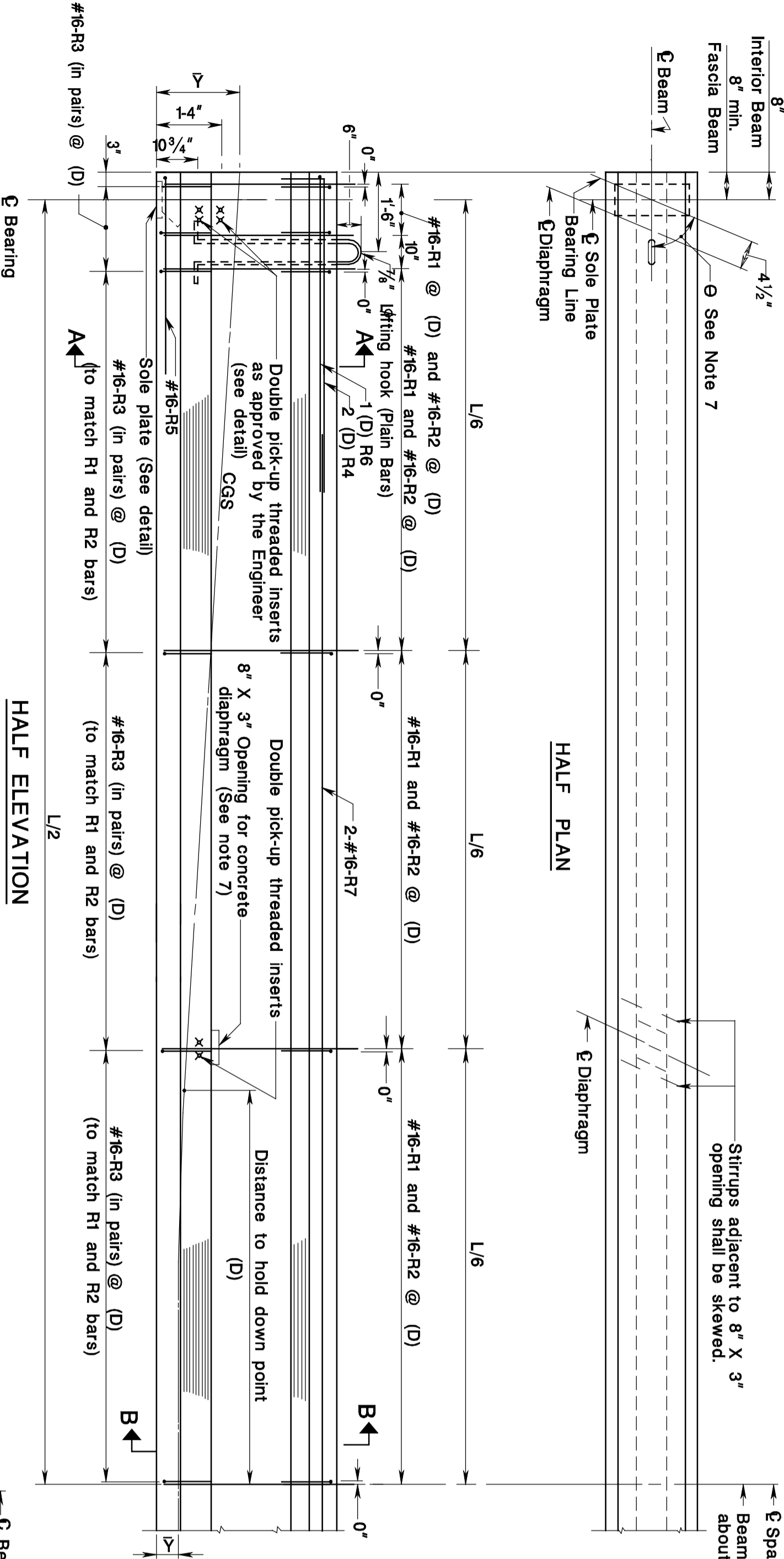
SCHEDULE OF MILD STEEL REINFORCEMENT								
NO.	MARK	SIZE	LENGTH	TYPE	A	B	C	D
(D)	* R1	#6	8'-3"	1	4'-1/2"	4"	—	—
(D)	R2	#6	3'-3"	3	6"	6"	5'	1'-1"
(D)	R3	#6	2'-8"	4	8"	8"	5'	1'-4"
(D)	* R4	(D)	8'-0"	2	6'-6"	1'-6"	—	—
(D)	* R5	#6	11'-0"	2	4'-9"	1'-6"	4'-9"	—
(D)	* R6	(D)	14'-0"	2	6'-6"	1'-0"	6'-6"	—
(D)	R7	#6	(D)	STR	—	—	—	—

* CORROSION PROTECTED REINFORCEMENT STEEL THAT CAN BE USED)

NOTE:
DEBUNDLED STRAIGHT STRANDS
MAY BE UTILIZED AS AN ALTERNATE
TO DRAPED STRANDS. ONE PIECE
STRUTUPS MAY BE UTILIZED AS AN
ALTERNATE TO TWO PIECE STRUTUPS.

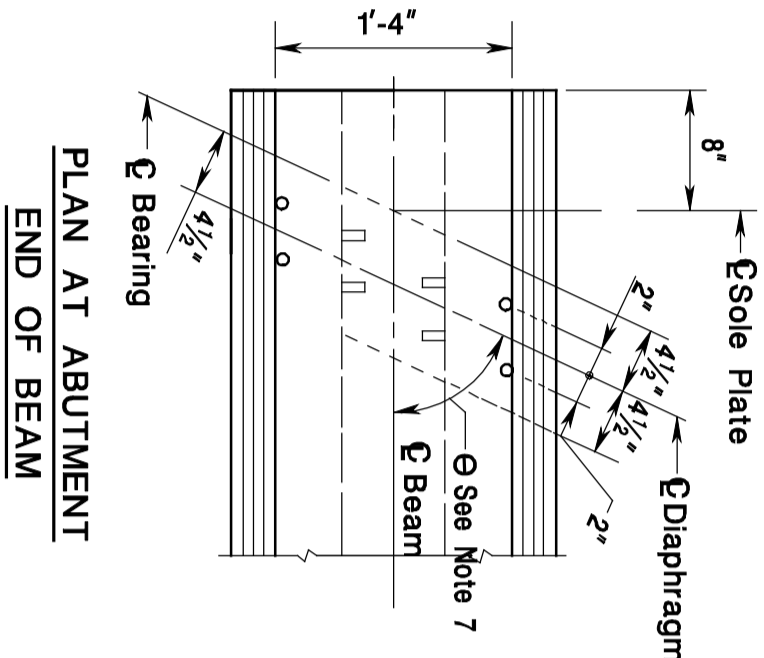
A MAXIMUM OF 8 STRANDS
PER ROW MAY BE PLACED
IN THE BOTTOM FLANGE.

HALF ELEVATION



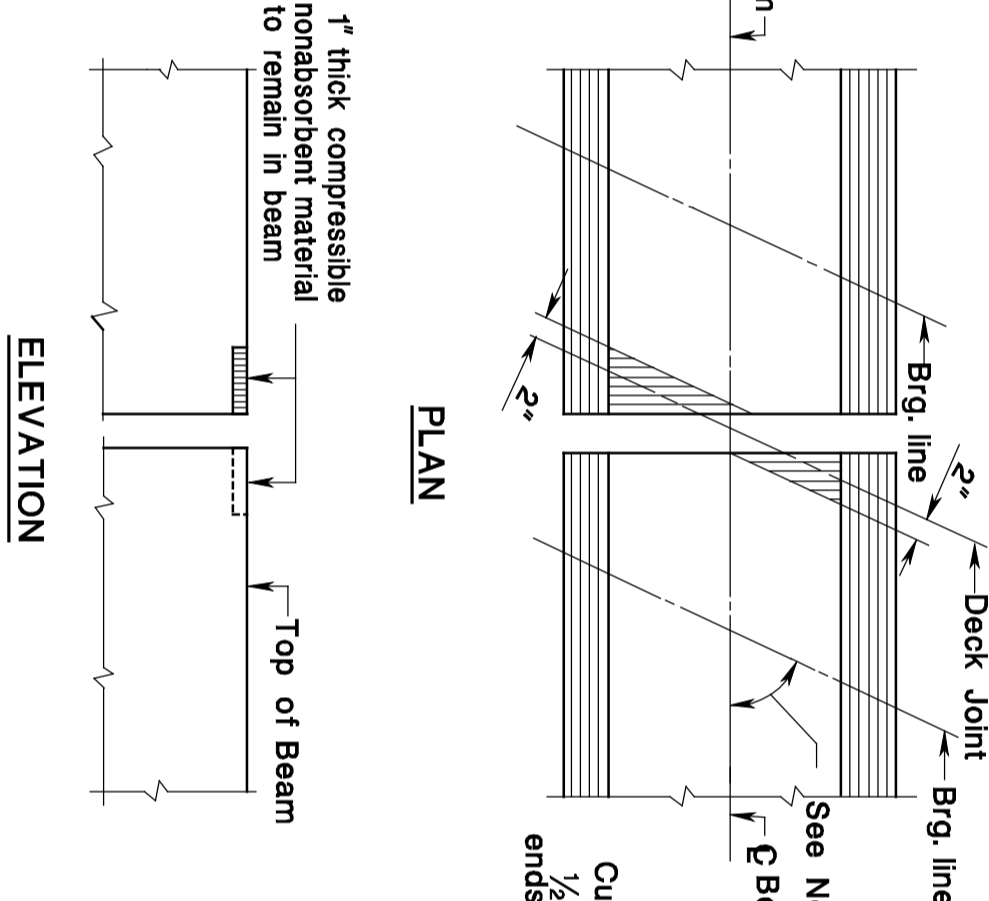
NOTE: Y LOCATES CENTROID
OF STEEL PRESTRESSING
GROUP.

NOTE: OMIT THREADED INSERTS ON
OUTSIDE FACE OF FASCIA BEAM

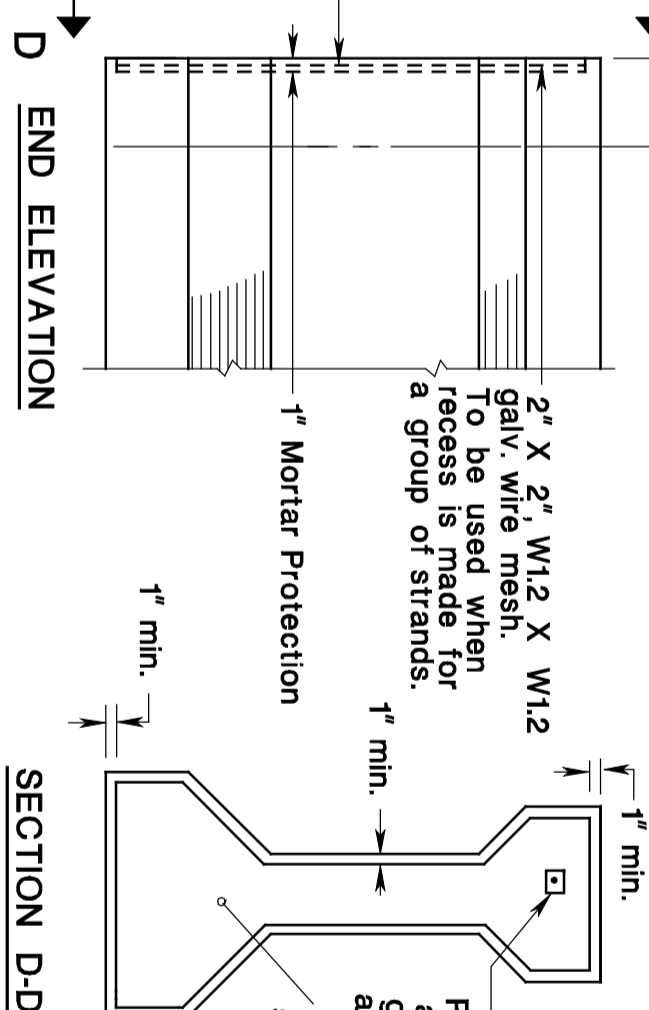


PLAN AT ABUTMENT
END OF BEAM

BEAMS AT PIERS



GROUTED RECESS FOR STRAND
AT BEAM ENDS



ROUTE (D)

SECTION

45" PRETENSIONED PRESTRESSED
CONCRETE BEAMS

STANDARD DRAWING PLATE 2.1-12
NEW JERSEY DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURAL ENGINEERING

CONTROL SECTION	JOB NO.
DES. BY	CHK. BY
DWN. BY	CHK. BY
EST. BY	CHK. BY
SPECS. BY	

REVISION	BY	OKD	DATE