

**Strand Data with number indicated in rows**

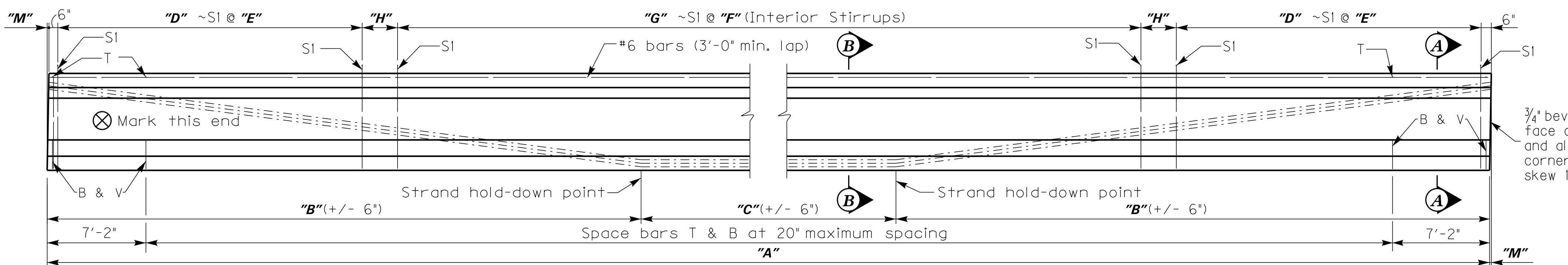
Mark	Midspan (SECTION B-B)								End (SECTION A-A)								Total No.	Concrete Stress (psi) f'ci f'c	No. of S Bars S1 S2	Hold-Down Capacity lbs.									
	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8					9	10	11	12	13	14	15	16	

**Beam Data (measured along centerline)**

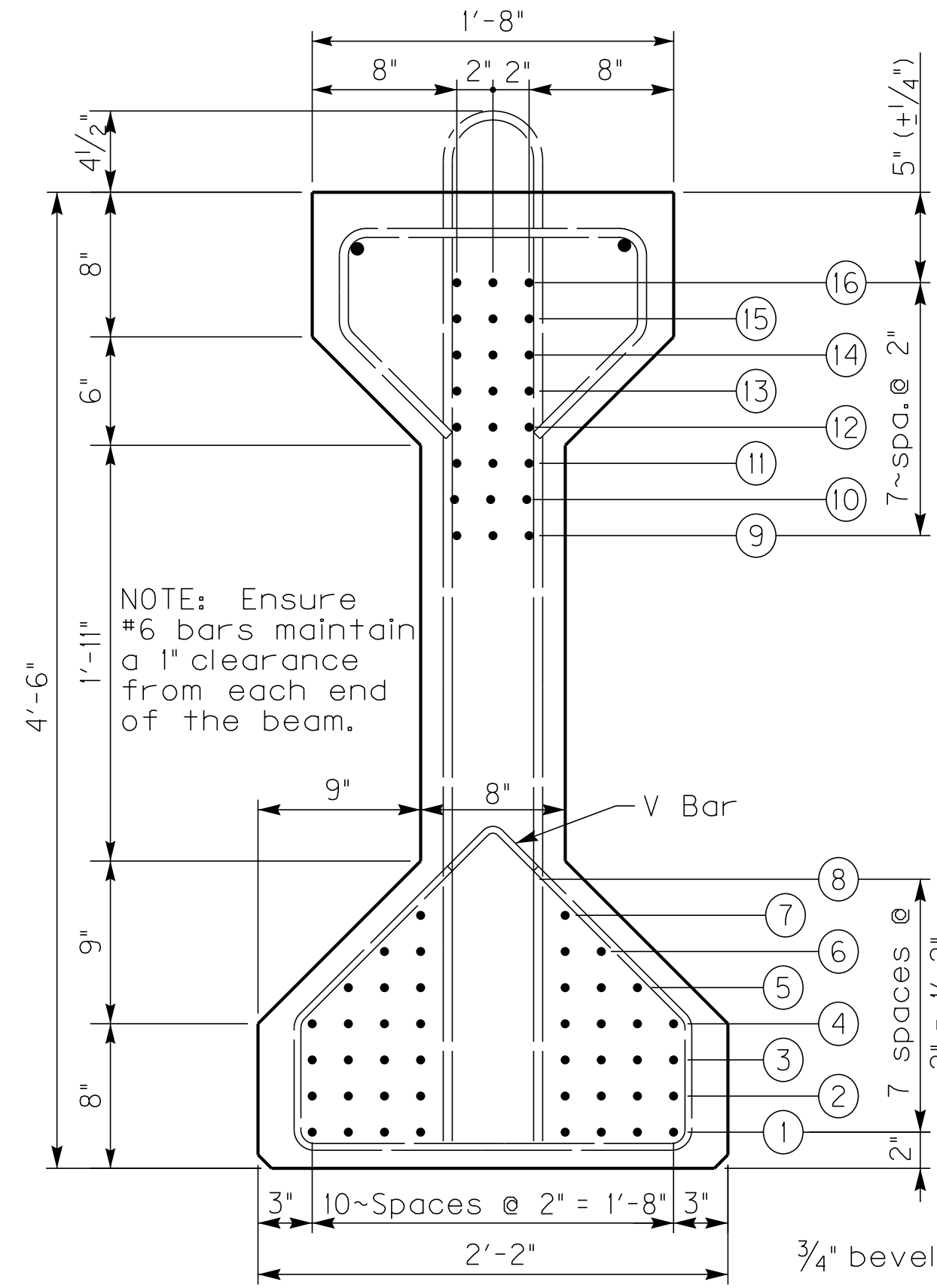
Total No.	Dimensions											Appr. Weight	Maximum Allowable Camber	
	A	B	C	D	E	F	G	H	I	M				

**General Notes**

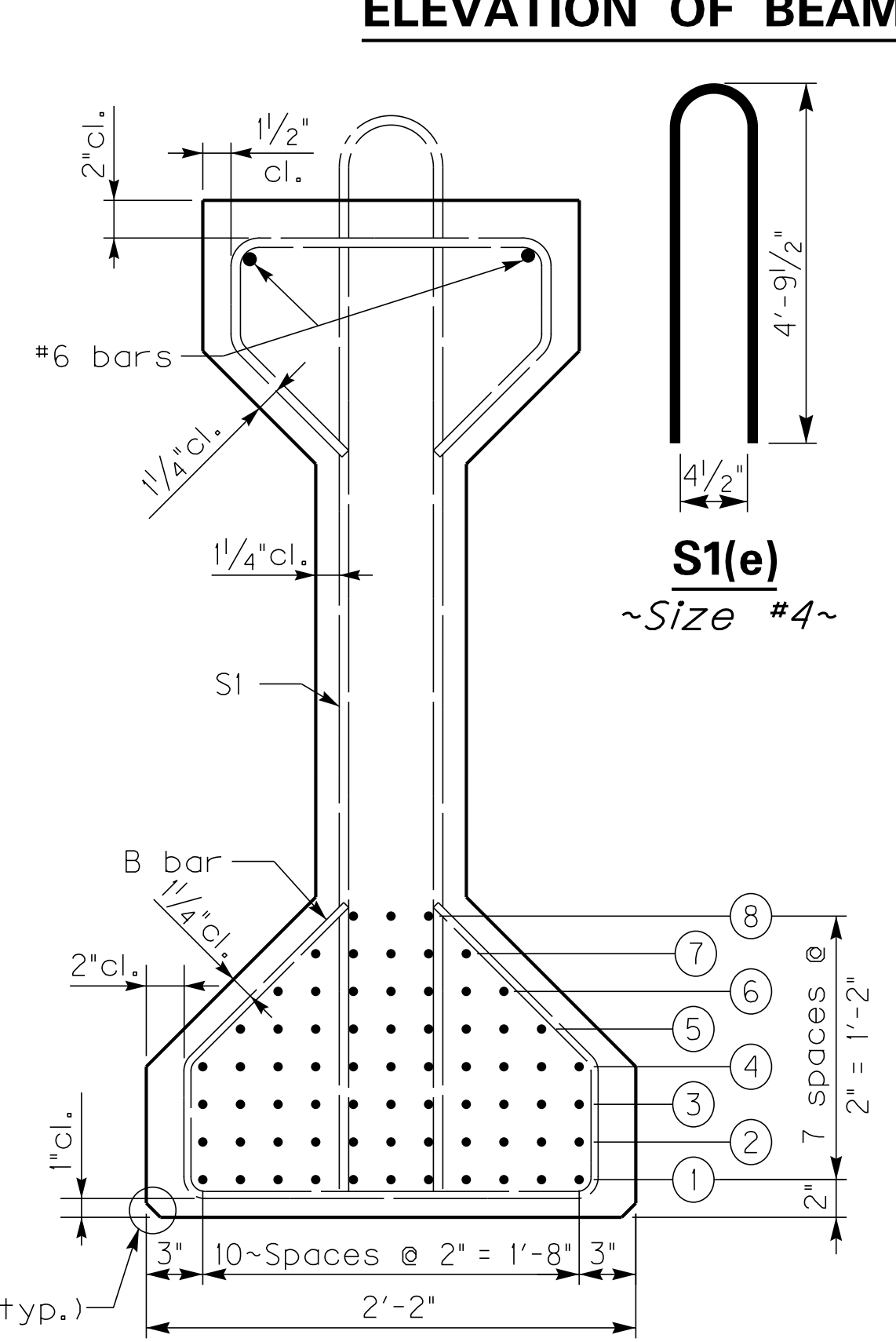
CONCRETE: Ensure prestressed girder concrete is in accordance with these plans and the specifications.  
 MATERIALS DESIGN SPECIFICATIONS: For prestressed beams: FY = 60,000 psi F'S = 270,000 psi  
 PRESTRESSING REINFORCEMENT: Ensure that strands are 1/2" (oversized diameter, 0.167 sq. in.), uncoated seven - wire stress relieved, low-relaxation conforming to AASHTO M 203, Grade 270. Billing of the cost for redesign of beam and subsequent plan modifications will be made for any request of alternate strand type or arrangement. The designer of the original plan is responsible for the billing and work.  
 CONSTRUCTION METHOD: Pretension all beams. Ensure concrete has attained f'ci (shown in the table) in standard test cylinders that are made and cured identically with the beams without bond stresses being transferred to the concrete or releasing the end anchors. Attain f'c (shown in the table) at or prior to 28 days. Apply an initial force of 33,817 lbs. per low-relaxation strand to develop a stress of 202,500 psi. No beam will be accepted that is honeycombed to the extent that strength of the beam or resistance to deterioration has been affected. An allowance of 0.0005L is made for shortening of beams due to shrinkage and elastic change. Show a detensioning plan by sequential numbering of the strand pattern on the shop plans.  
 LIFTING DEVICES: Detail lifting devices on the shop plans. Loads are to be distributed equally to each device.  
 BEARING DEVICES: Include the price for lead plates and/or bearing pads in the bid for precast beams.  
 FABRICATION: The 'Maximum Allowable Camber' shown on the beam sheet is the amount of camber, measured prior to casting the deck, above which the beam will begin to encroach into the slab. If the measured camber is greater than the 'Maximum Allowable Camber' the contractor will be responsible for any necessary adjustments to assure a minimum slab thickness as shown in the plans. This work will be considered incidental to the completion of the structure and have the approval of the Engineer.



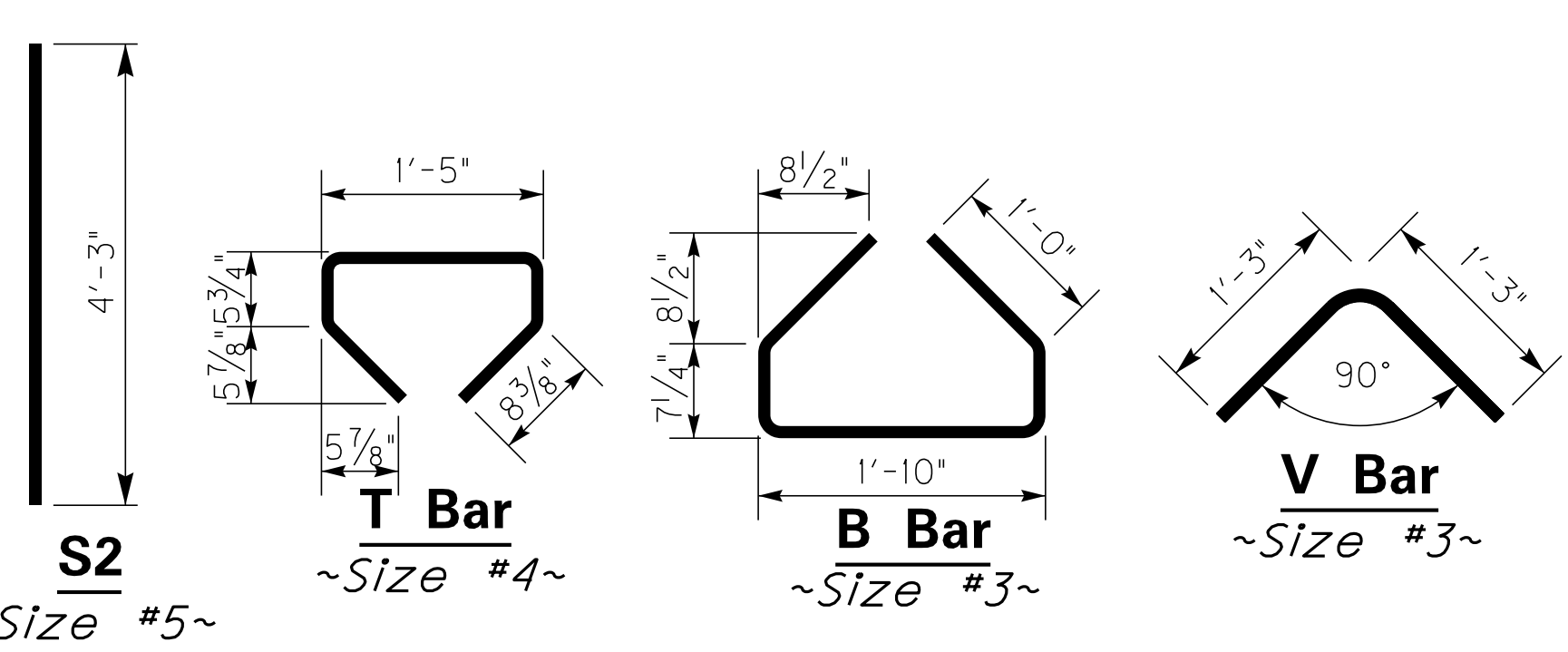
**ELEVATION OF BEAM**



**SECTION A-A**

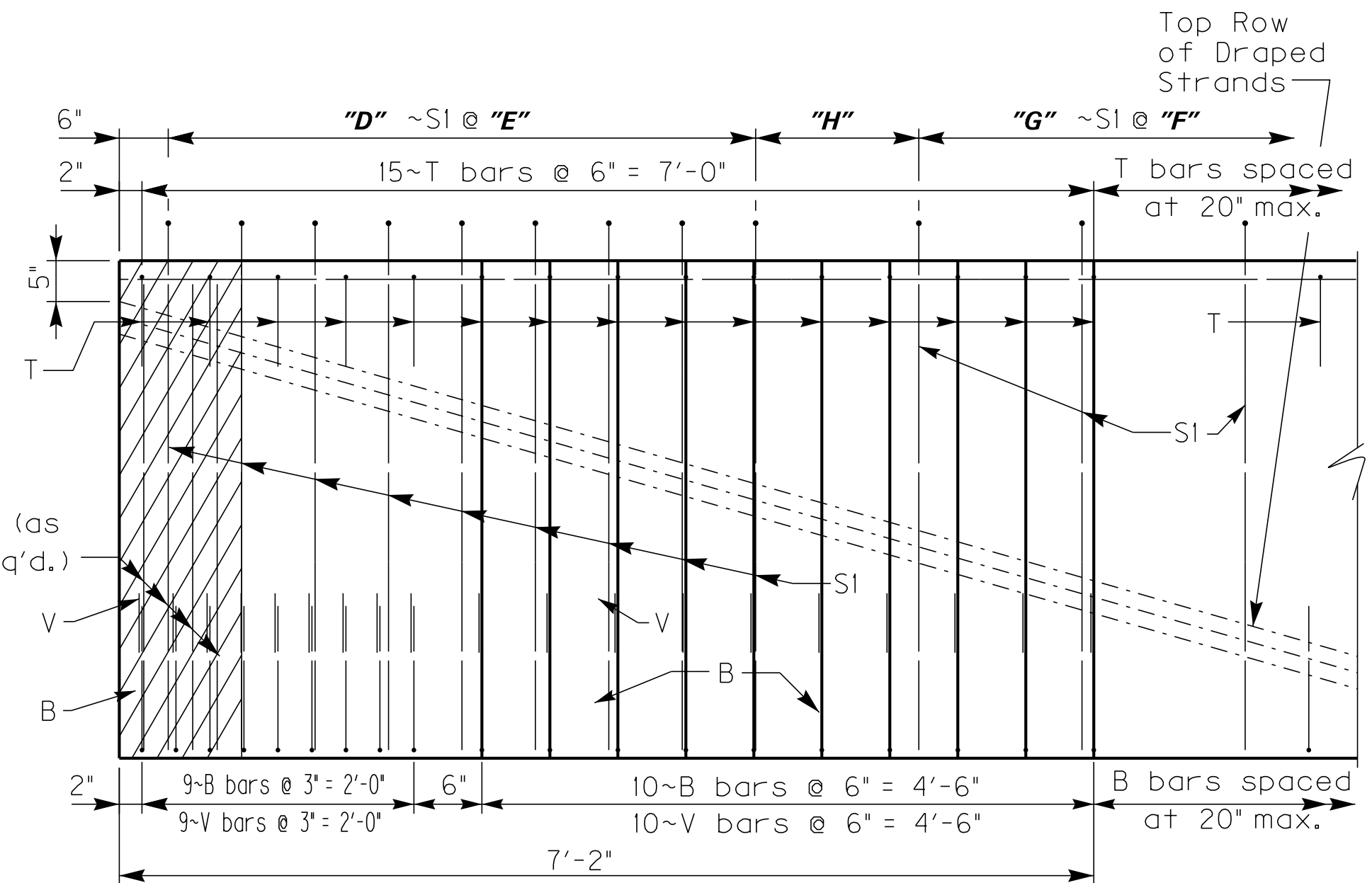


**SECTION B-B**

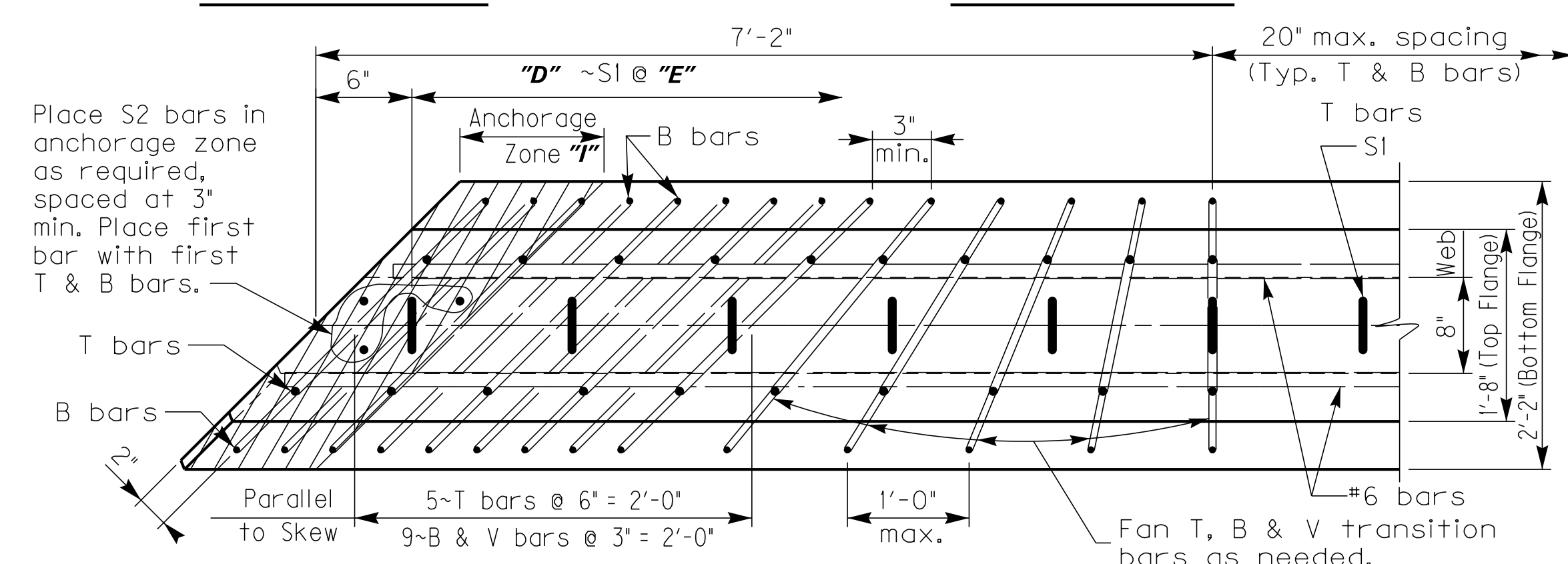


**SECTION C-C**

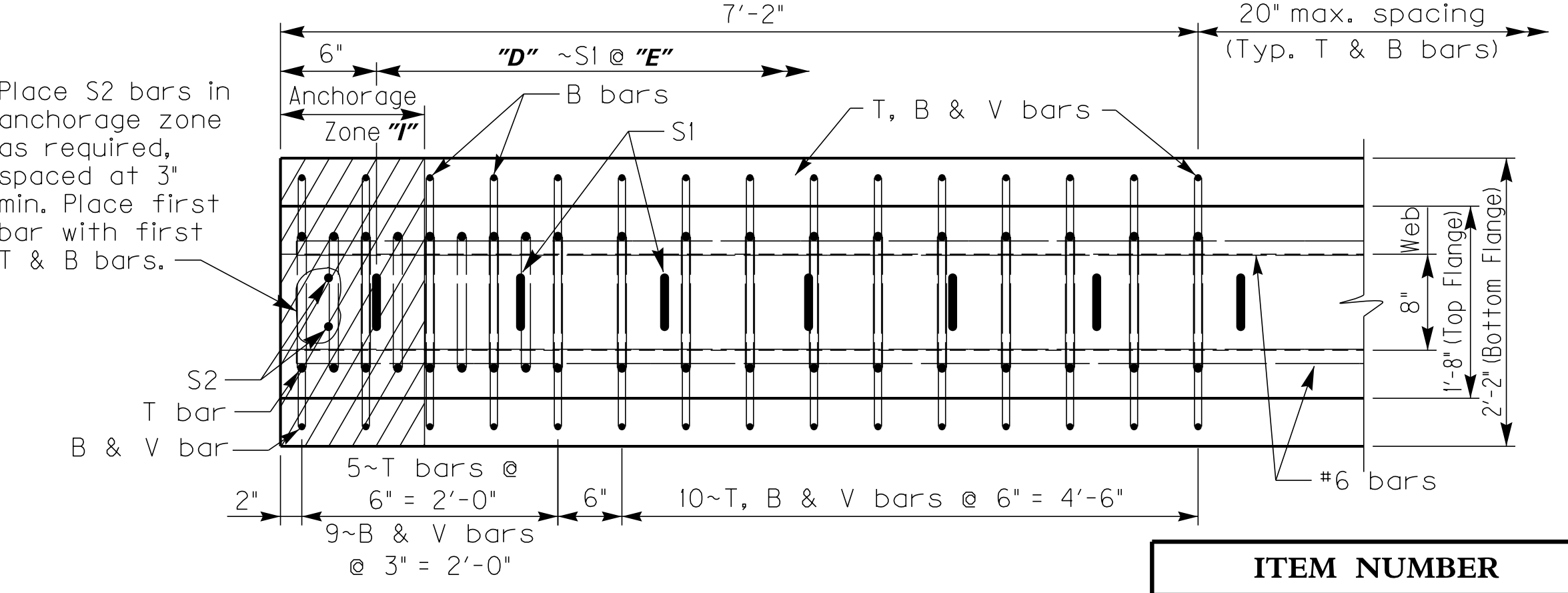
**STRAND SPLICE DETAIL**



**PARTIAL SECTION ON CENTERLINE**



**TYPICAL SKEWED END TREATMENT**



**TYPICAL SQUARED END TREATMENT**

REVISION		DATE
DATE:	CHECKED BY:	
DESIGNED BY:		
DETAILED BY:		
<b>Commonwealth of Kentucky</b>		
<b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY		
ROUTE	CROSSING	
<b>PPC I-BEAM, TYPE 4, DETAILS</b>		
ITEM NUMBER	PREPARED BY	SHEET NO.
		DRAWING NO.

FILE NAME: H:\Resources\Bases\_Sheets\PCIBeams\English\Current\PCI\_4.dgn  
 USER: earlw.downey  
 DATE PLOTTED: 01-NOV-2013  
 E-SHEET NAME:  
 MicroStation v8.11.7.180