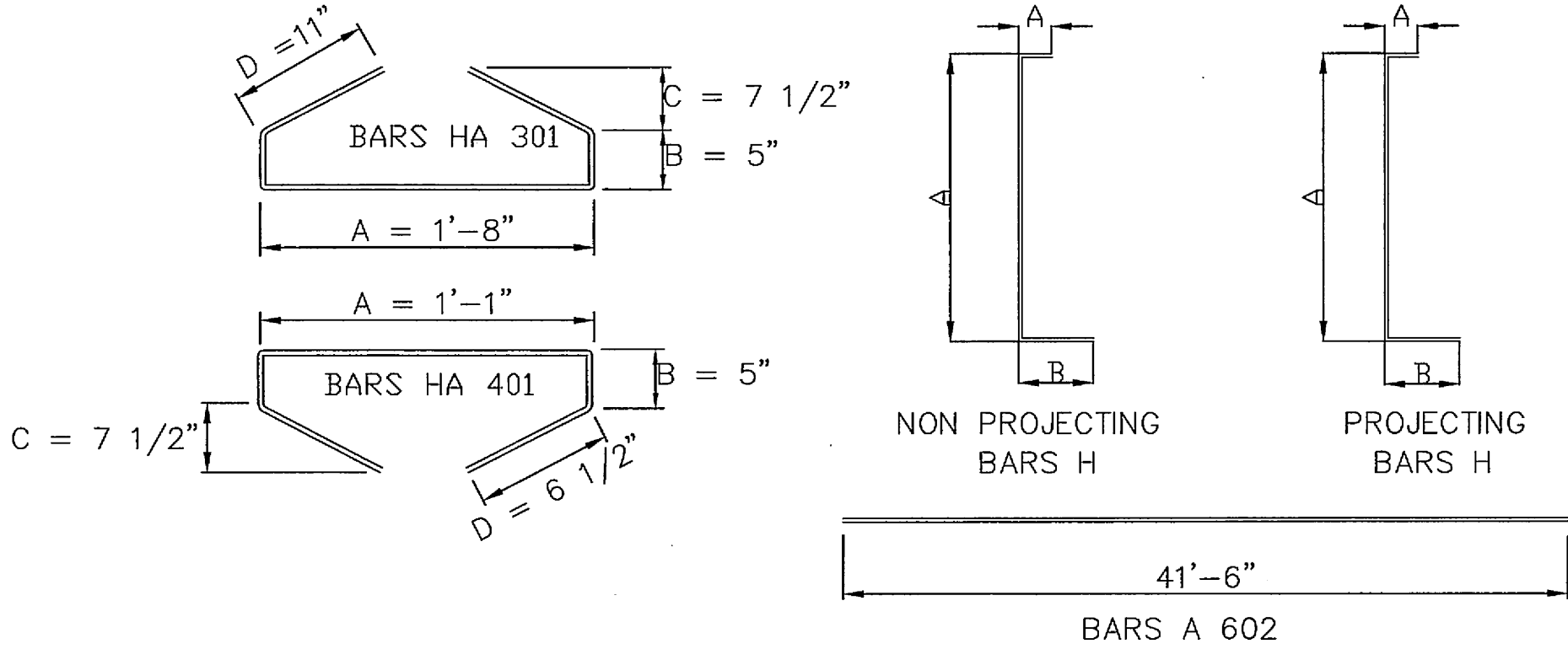


GENERAL NOTES:

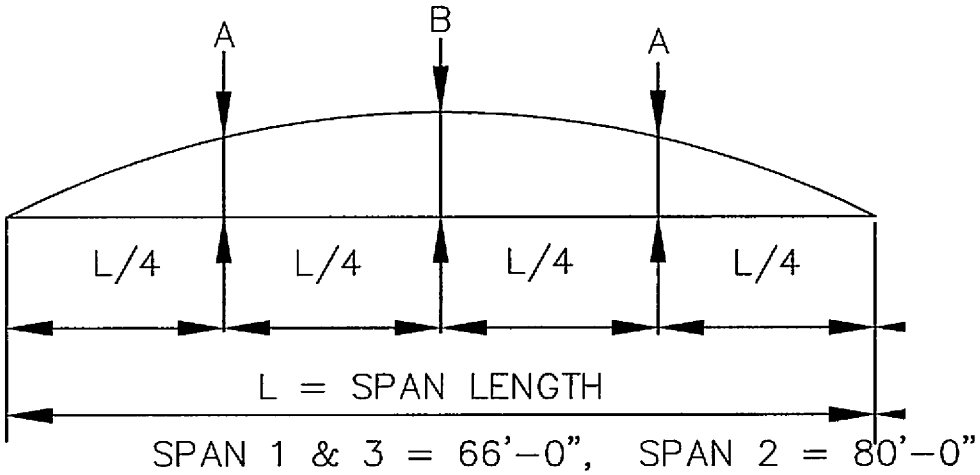
- 1) THE TOP OF ALL BEAMS ARE TO BE ROUGH FLOATED. AT APPROXIMATELY THE TIME OF INITIAL SET, THE TOP OF THE BEAMS WILL BE SCRUBBED TRANSVERSELY WITH A COARSE WIRE BRUSH TO REMOVE ALL LAITANCE AND TO PRODUCE A ROUGH SURFACE 1/4" DEEP. WHERE PRECAST SLAB PANELS ARE TO BE USED AND SET ON FELT PADS, THE OUTER TWO INCHES OF THE TOP FLANGE MAY BE TROWLED.
- 2) MILD STEEL REINFORCING SHALL BE ASTM A615 GRADE 60.
- 3) ALL PRESTRESSING STRANDS TO BE 1/2" LOW-LAX 270K, 7 WIRE UNCOATED STRESS-RELIEVED LOW RELAXATION PRESTRESSING STRANDS.
- 4) AN INITIAL FORCE OF 31,003 LBS. SHALL BE APPLIED TO EACH STRAND IN ALL BEAMS.
- 5) AFTER THE BEAM IS REMOVED FROM THE PRESTRESSING BED, BARS C500 SHALL BE BENT A SUFFICIENT AMOUNT SO AS TO PERMIT THE "C" BARS OF ADJOINING BEAMS TO MESH WHEN IN THE ERECT POSITION.
- 6) ALL BEAMS ARE AASHTO - PCI STANDARD TYPE III.
- 7) THE PRESTRESSING STRANDS SHALL BE LEFT PROJECTING 3" FROM THE ENDS OF THE BEAMS. THERE SHALL NOT BE ANY PROTECTIVE COATING PLACED ON THE ENDS OF THE BEAMS OR ON THE PROJECTING STRANDS.
- 8) ELASTOMERIC PADS TO BE 1/2"x2'-6"x22" IN SPAN 2 WITH 1 1/2" DIA HOLES AT BENTS.
- 9) THE CONCRETE FOR THIS CONSTRUCTION SHALL BE OF SUCH PROPERTIES AS TO ATTAIN A COMPRESSIVE STRENGTH OF NOT LESS THAN 5,000 PSI AT THE AGE OF 28 DAYS AND STRESS TRANSFER SHALL NOT BE MADE TO THE BRIDGE MEMBER UNTIL THE TEST SPECIMENS INDICATE THAT THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF AT LEAST 4,500 PSI. SEE GENERAL NOTE SHEET FOR CONCRETE FINISHING.
- 10) THE SEQUENCE FOR TRANSFER OF STRESS OR THE CUTTING OF STRANDS SHALL BE IN ACCORDANCE WITH ARTICLE 615.14 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND SHALL BE SHOWN ON THE APPROVED SHOP DRAWING. AT NO TIME SHALL MORE THAN 1/16TH OF THE TOTAL PRESTRESSING FORCE BE ECCENTRIC ABOUT THE CENTERLINE OF THE BEAM.
- 11) PRESTRESSING STRANDS SHALL NOT BE GREATER THAN NOMINAL 1/2" DIAMETER.
- 12) SEE STD DWG STD-14-2 FOR ADDITIONAL DETAILS.

GIRDER ELEVATION - SPAN 2

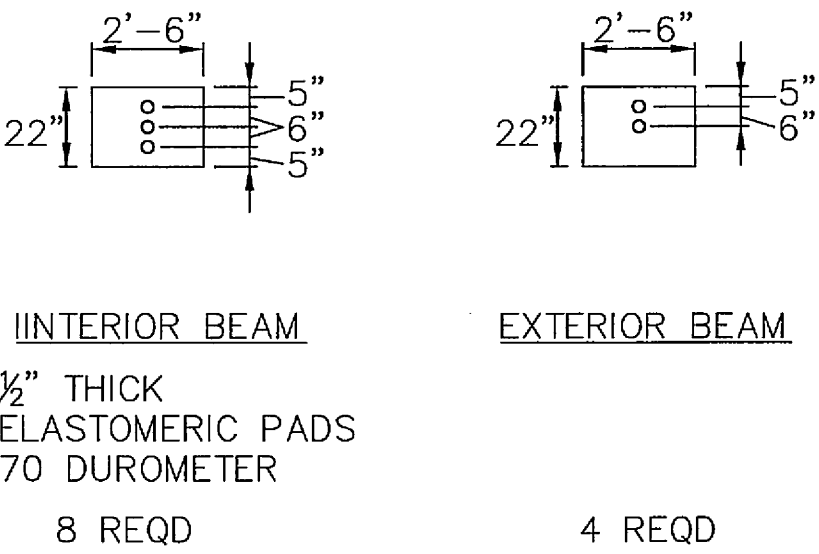
(SPACING SHOWN FOR STIRRUPS)



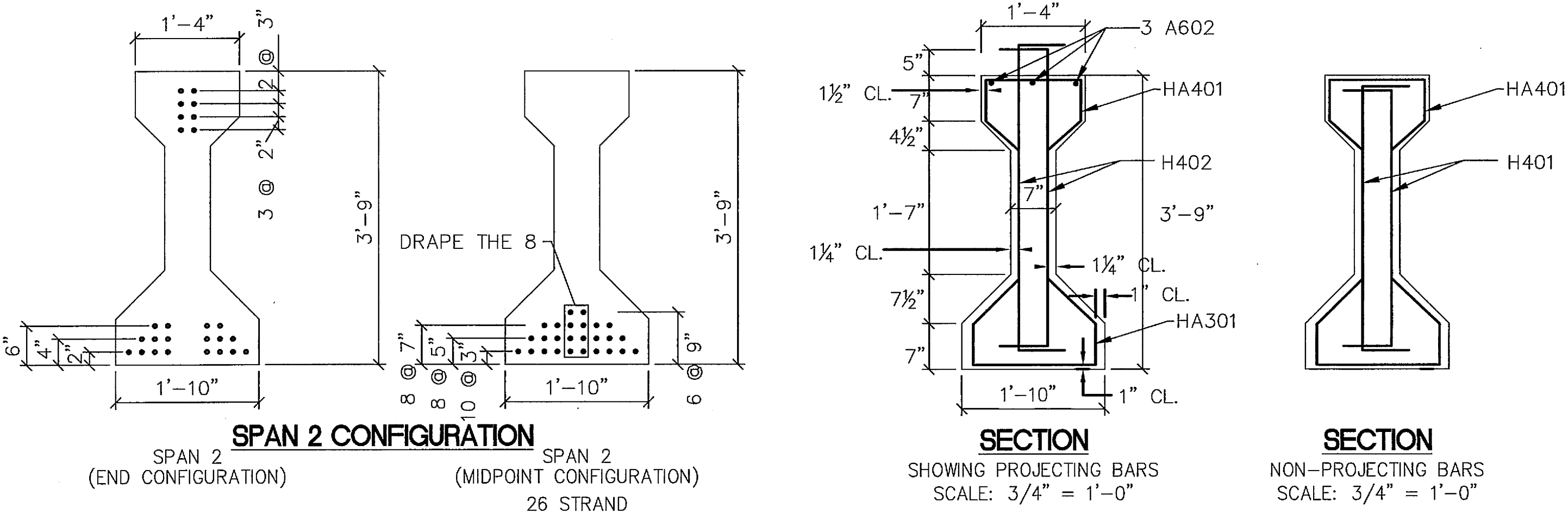
BILL OF STEEL - PER BEAM (SPAN 2)								
SUPERSTRUCTURE								
	BARS	SIZE	NO. REQ'D.	BEND DIMENSIONS (IN.)				LENGTH
				A	B	C	D	WEIGHT LBS
	A602	6	6	41'-6"	-	-	-	41'-6"
	HA301	3	114	1'-8"	5	7 1/2"	11	4'-4"
	HA401	4	114	1'-1"	5	-	6 1/2"	3'-0"
	H401	4	124	3'-5"	11	5	-	4'-9"
	H402	4	104	4'-0"	11	5	-	5'-4"
	A500	5	6	5'-6"	-	-	-	5'-6"
NON-EPOXY COATED TOTAL:								1586



SPAN	A	B
1 - ALL BEAMS	1/2"	5/8"
2 - ALL BEAMS	1 1/4"	1 5/8"
3 - ALL BEAMS	1/2"	5/8"



BENT BEARING PADS



DEAD LOAD CORRECTION CURVE

DEAD LOAD CORRECTION CURVE: THESE CURVES ARE FOR DEAD LOAD SLAB AND ALL DEAD LOADS THAT ARE APPLIED AFTER SLAB IS IN PLACE

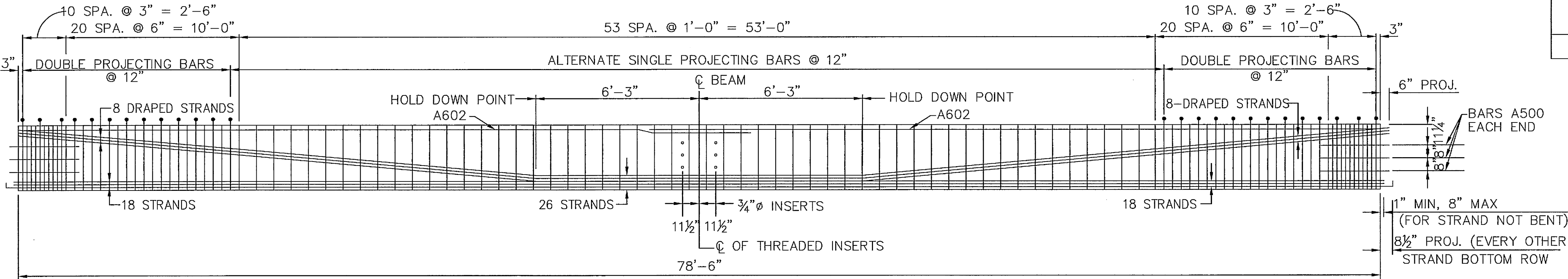
PRESTRESSED BEAM DESIGN DATA (PER BEAM)

LIVE LOAD DISTRIBUTION FACTOR 0.64 LANES
COMPOSITE DEAD LOAD 417 LB/FT
COMPOSITE SLAB DESIGN STRENGTH f_c' =3000 PSI
LIVE LOAD SHEAR TO BE INCREASED 20% ABOVE H520-44 VALUES

NOTE: DOWNWARD DEFLECTION UNDER TOTAL DL NOT ALLOWED

ESTIMATED QUANTITIES - PER BEAM

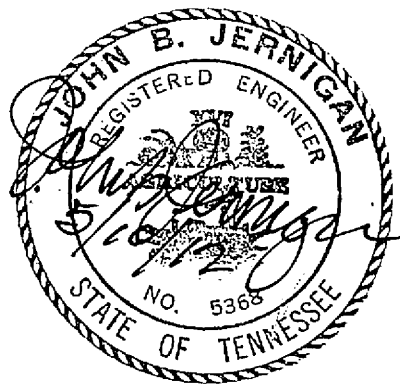
NO. OF BEAMS REQD	PRESTRESSING STRANDS 0.5 IN. DIA LOW RELAXATION LB	CLASS 'A' CONCRETE C.Y.	REINFORCING STEEL LB
6	1094	11.3	1586



GIRDER ELEVATION - SPAN 2



REVISIONS		
NO.	DATE	DESCRIPTIONS



SHEET 14 OF 29		
STATE OF TENNESSEE SHELBY COUNTY, TN. WARD ROAD OVER BIG CREEK		
PRESTRESSED BEAM SPAN 2		
DATE: FEBRUARY 17, 2012	SCALE: N.T.S.	
DRAWN: JP	CHECKED: HSJ	APPROVED: