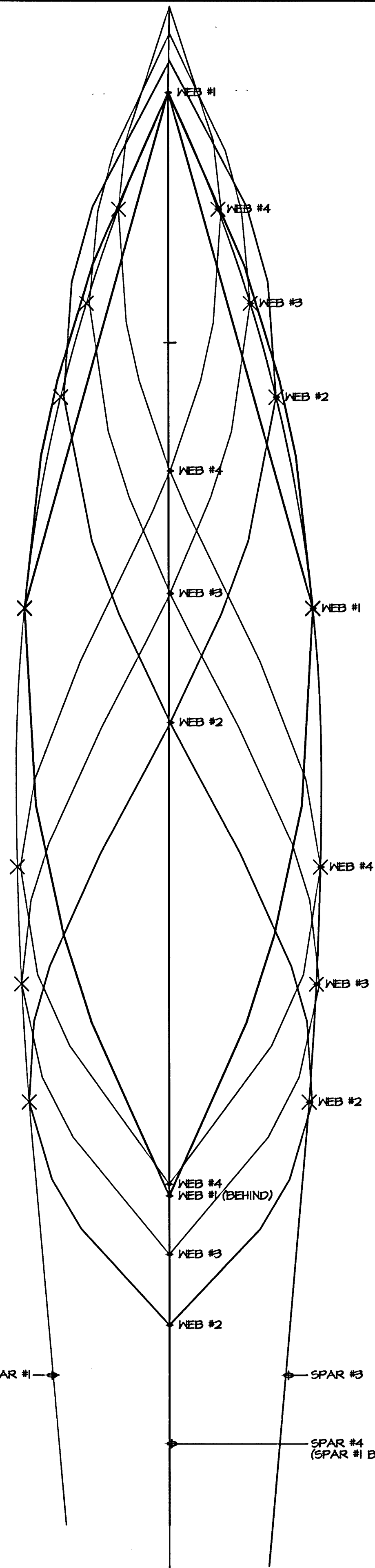
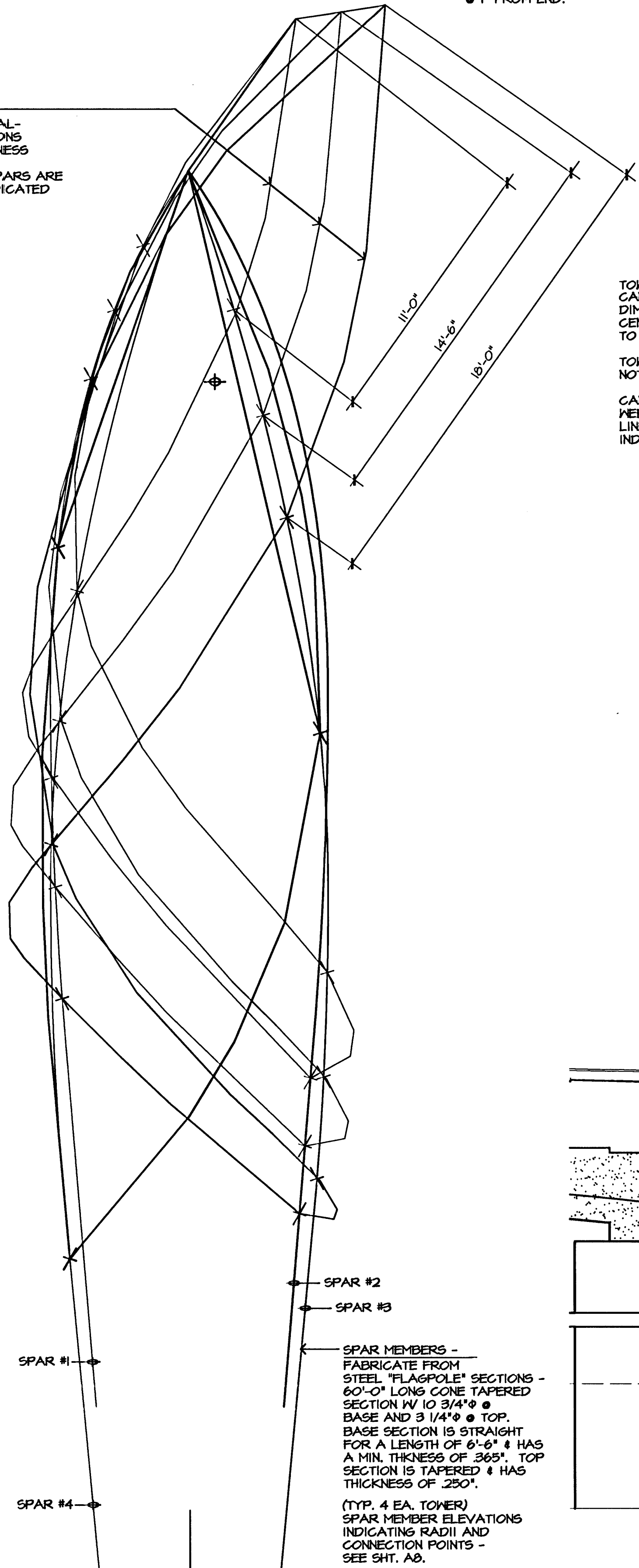




WEB MEMBERS -
FABRICATE FROM SPIRAL-
BENT 2.875" O.D. SECTIONS
WITH .203" WALL THICKNESS

WEB MEMBERS BTWN SPARS ARE
NOT SEGMENTED AS INDICATED
BUT ARE HELICAL.



1/2" ROD - WELD TO TOP OF
SPAR CLOSURE & WELD TO
CANTILEVERED WEB MEMBERS
@ 1" FROM END.

TOP CLOSURE - CONNECT
ALL FOUR SPARS AT ONE POINT
WITH FORMED PIPE CLOSURE
USING SLEEVED, WELDED CONNECTIONS.

TOWER WEB MEMBERS -
CANTILEVER AS INDICATED.
DIMENSIONS ARE GIVEN FROM
CENTERLINE OF SIDE SPAR
TO END OF WEB MEMBER.

TOWER WEB MEMBERS ARE
NOT AS INDICATED BUT HELICAL.

CANTILEVERED PORTIONS OF
WEB MEMBERS ARE STRAIGHT
LINES & ARE PARALLEL AS
INDICATED ON DRAWINGS.

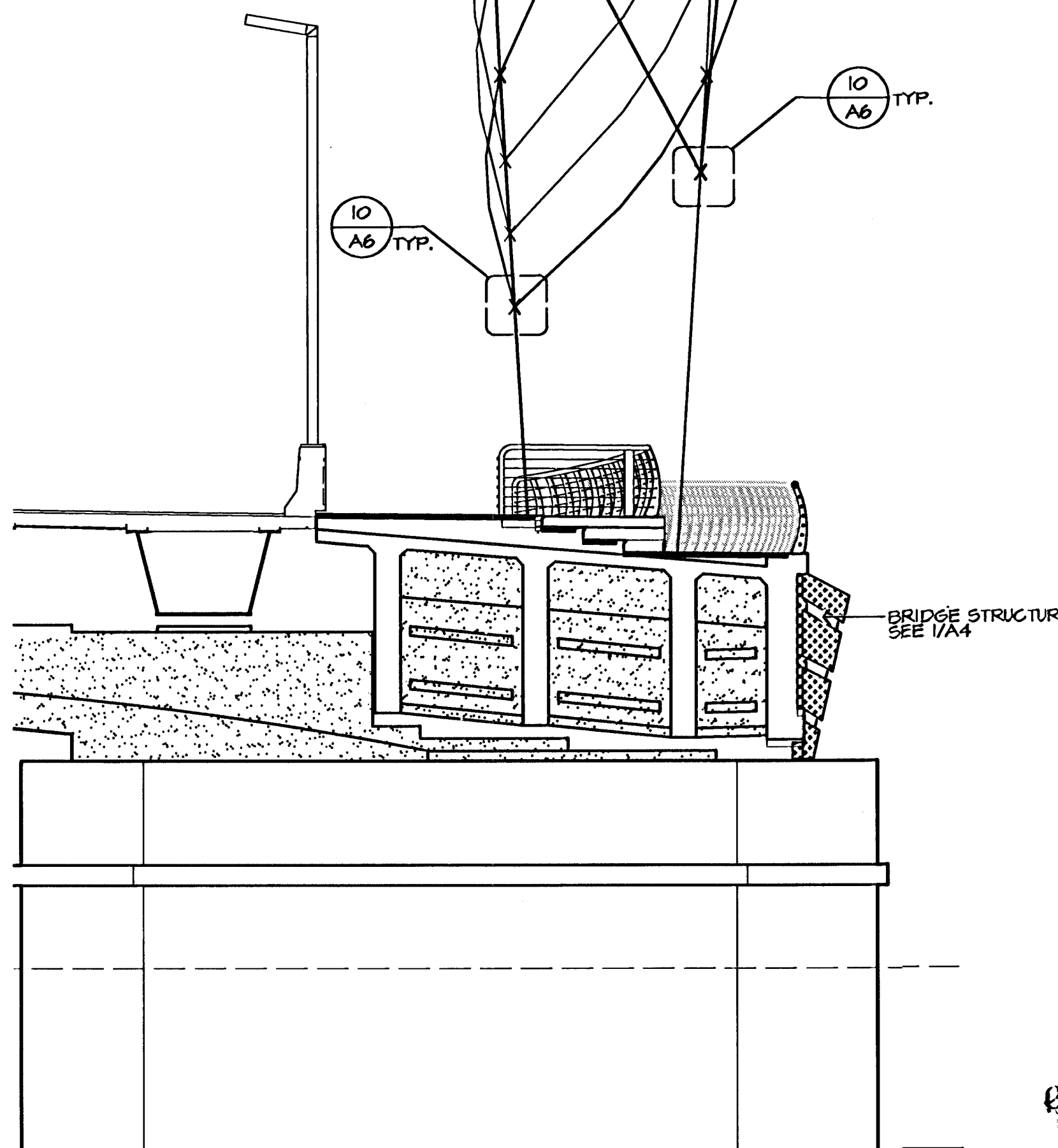
8
A6 TYP.

9
A6 TYP.

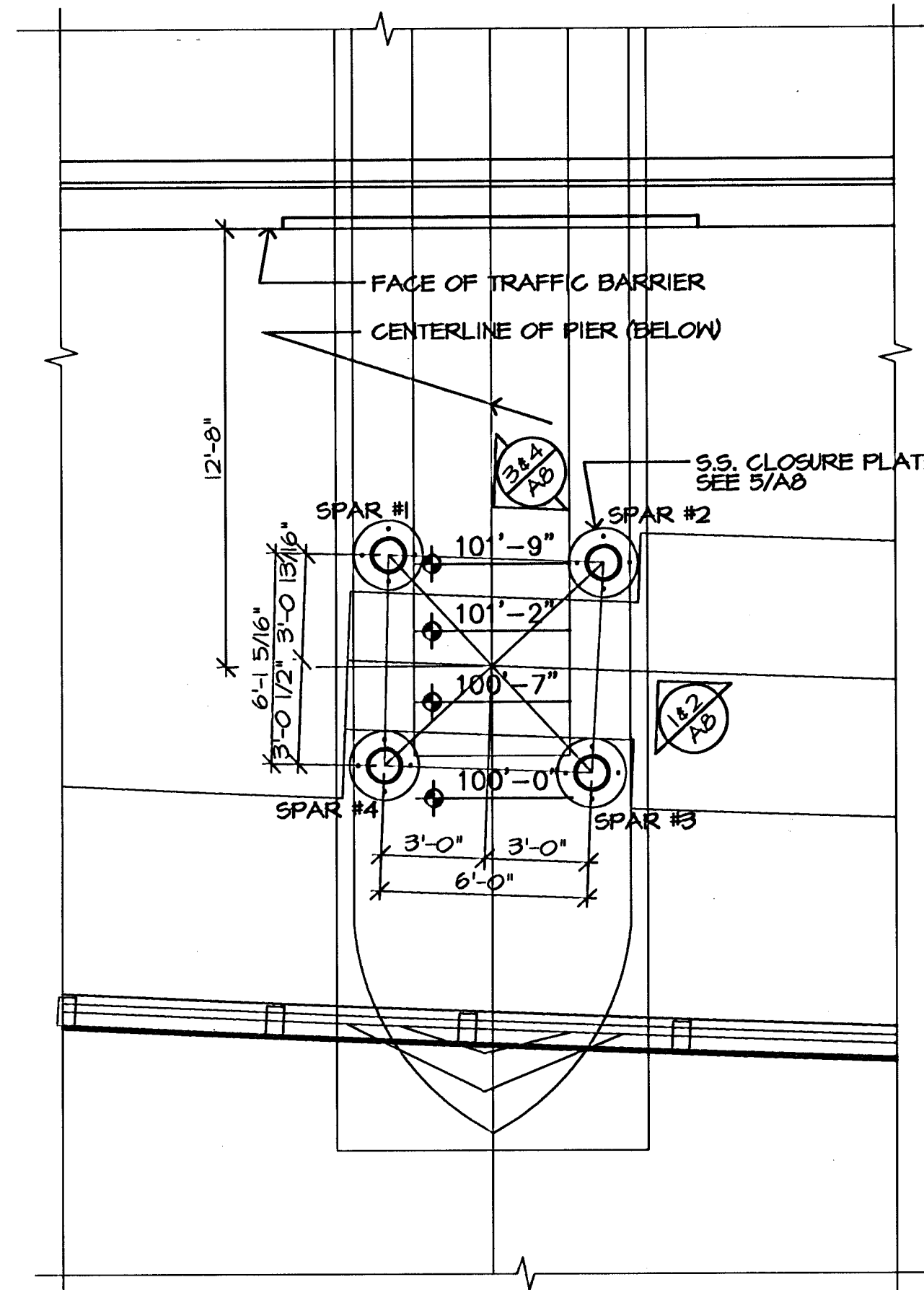
10
A6 TYP.

SPAR MEMBERS -
FABRICATE FROM
STEEL "FLAGPOLE" SECTIONS -
60'-0" LONG CONE TAPERED
SECTION W/ 10 3/4" @
BASE AND 3 1/4" @ TOP.
BASE SECTION IS STRAIGHT
FOR A LENGTH OF 6'-6" & HAS
A MIN. THICKNESS OF .365". TOP
SECTION IS TAPERED & HAS
THICKNESS OF .250".

(TYP. 4 EA. TOWER)
SPAR MEMBER ELEVATIONS
INDICATING RADII AND
CONNECTION POINTS -
SEE SHT. A8.



BRIDGE STRUCTURE
SEE 1/A4

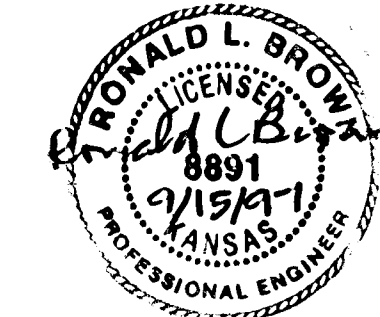


4 ENLARGED TOWER BASE PLAN

0' 2' 4' 6' 1/4"=1'-0"

TOWER GENERAL NOTES

- SEE "ORNAMENTAL METALWORK" SPECIFICATION FOR DETAILED REQUIREMENTS FOR MATERIALS, FABRICATION AND INSTALLATION.
- FIELD MEASURE BRIDGE DIMENSIONS BEFORE FABRICATION.
- MODEL IS AVAILABLE FOR VIEWING AT THE OFFICES OF GOSSEN LIVINGSTON ASSOCIATES, ARCHITECTS, 420 S. EMPORIA, WICHITA, KANSAS.
- IT IS STRONGLY SUGGESTED THAT POTENTIAL FABRICATORS FAMILIARIZE THEMSELVES WITH THE MODEL, PLANS, AND SPECIFICATIONS BEFORE SUBMITTING A BID FOR THIS WORK.
- MATERIALS FOR ALL COMPONENTS OF TOWERS (EXCEPT BOLTS, WHICH SHALL BE STAINLESS STEEL),
STAINLESS STEEL, AS SPECIFIED, UNLESS FABRICATOR CAN ENGINEER STRUCTURE TO WITHSTAND SPECIFIED LOADS WITH CLEAR ANODIZED ALUMINUM OR A COMBINATION OF STAINLESS STEEL AND CLEAR-ANODIZED ALUMINUM.
- IF TOWERS ARE TO BE ENGINEERED BY FABRICATOR PER NOTE 5, TOWERS ARE TO BE ANALYZED FOR THE FOLLOWING LOADS:
A. DEAD LOAD
B. LIVE LOADS:
1. WIND: 80 MPH PER ANSI/AIAA MM FP 1001-90
($P = 0.00256 (1.3 V)^2$ CACH)
2. POTENTIAL FOR ACCUMULATION OF ICE BUILD-UP ON MEMBERS SHALL BE CONSIDERED.



Revisions		By	Date
1			

		CITY OF WICHITA, KANSAS MICHAEL E. LINDEBAK, P.E.-CITY ENGINEER DOUGLAS AVENUE BRIDGE OVER ARKANSAS RIVER BRIDGE TOWER REFERENCE CITY OF WICHITA PROJECT NO. 472-82721	
PROFESSIONAL ENGINEERING CONSULTANTS, P.A. WICHITA, KANSAS		DESIGNED BY VS CHECKED BY JPB DRAWN BY LBD\JPB\AJ DATE 9/12/97 JOB NO. 95088-4	

1 TOWER AUXILLIARY VIEW
NO SCALE

2 TOWER VIEW
NO SCALE

3 TOWER VIEW
0' 2' 4' 6' 3/16"=1'-0"