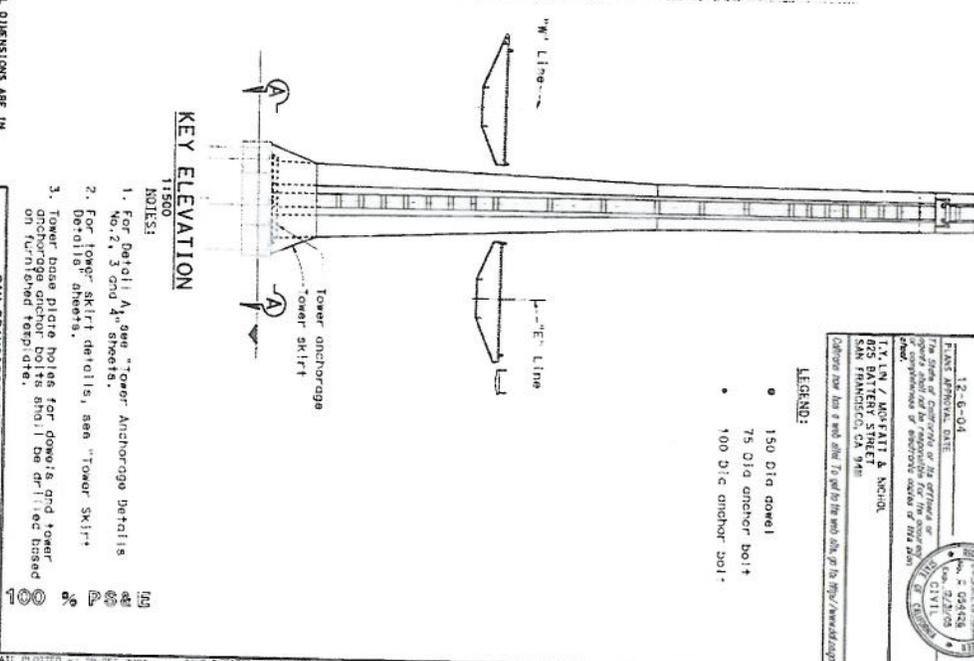
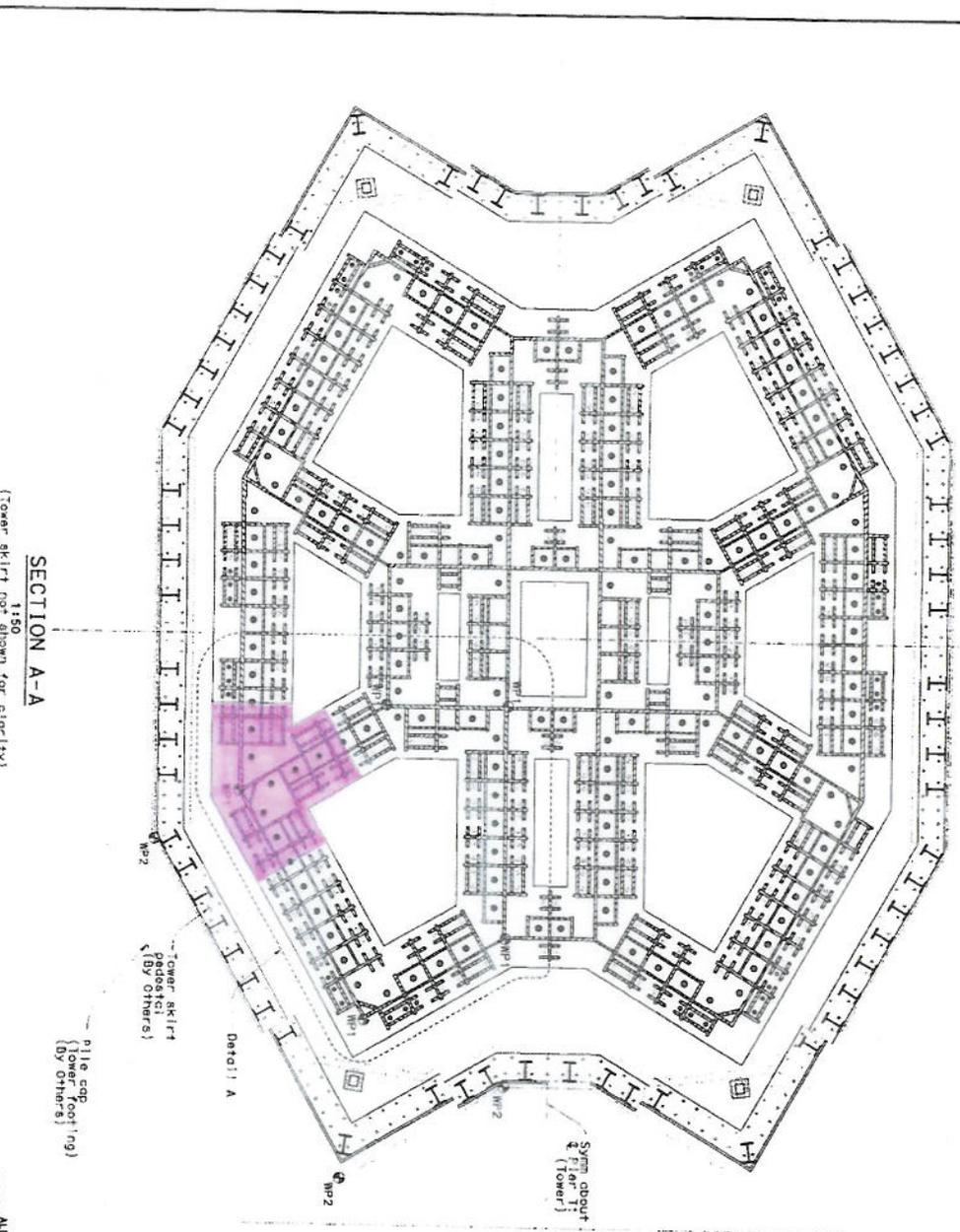


**San Francisco-Oakland Bay Bridge  
Seismic Safety Project  
Self Anchored Suspension Span**

**Photos of Model Assembly,  
Tower Base**

**January, 2006**

N. 101708th St., San Francisco, Calif. DESIGN QUANTITY DATE OF DESIGN DRAWN BY		W. M. HIGGINS S. L. HIGGINS S. L. HIGGINS		S. L. HIGGINS S. L. HIGGINS S. L. HIGGINS		PREPARED FOR THE <b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION		ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN		REGISTERED ENGINEER CIVIL No. 50445 Exp. 12/31/76	
PROJECT NO. SHEET NO.		PROJECT NO. SHEET NO.		PROJECT NO. SHEET NO.		PROJECT NO. SHEET NO.		PROJECT NO. SHEET NO.		PROJECT NO. SHEET NO.	



California  
**Metric**

CITY	COUNTY	ROUTE	POST MILE TOTAL
04	SF	80	13.27/3.9 593 1204

REGISTERED ENGINEER - CIVIL  
 12-6-04  
 PLAN APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of any information or data furnished by any person other than the engineer or architect who prepared the same.

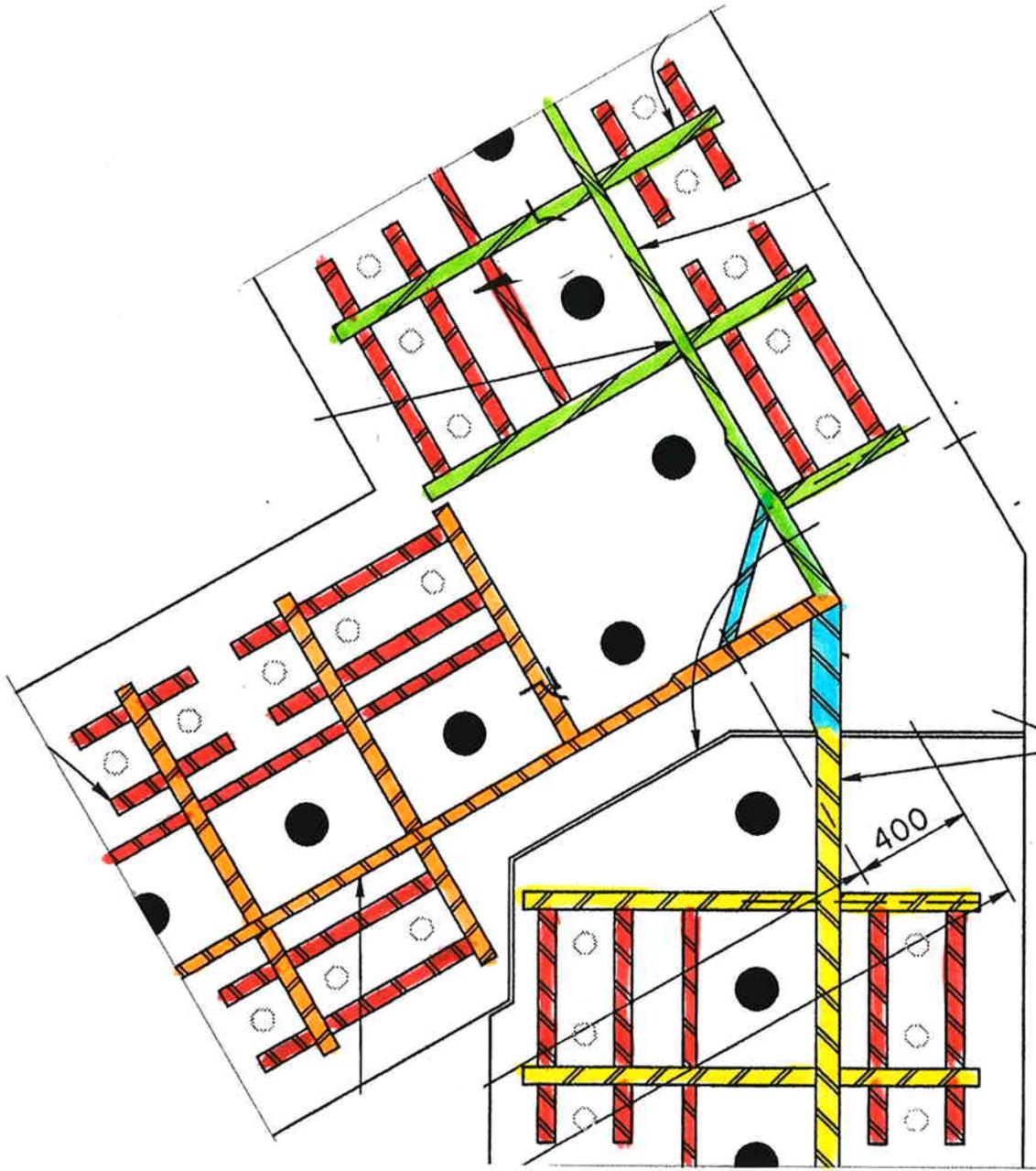
T. Y. LIN / MCFARLANE & NICHOL  
 825 BATTERY STREET  
 SAN FRANCISCO, CA 94111

California law has a web site To get to the web site go to <http://www.cesd.ca.gov>

LEGEND:  
 • 150 Dia dowel  
 • 75 Dia anchor bolt  
 • 100 Dia anchor bolt

SAV FRANCISCO OAKLAND BAY BRIDGE  
 EAST SPAN SEISMIC SAFETY PROJECT  
 (SUPERSTRUCTURE & TOWER)  
**TOWER ANCHORAGE DETAILS NO. 1**

DATE PLOTTED: 11/17/04  
 PLOT SCALE: 1/8" = 1'-0"



TOWER BASE ISM - ASSEMBLY SEQUENCE

## Mock-up of Tower Leg at Base

Following is a brief description of the assembly of a wood model of a portion of a tower leg of the Bay Bridge. The assembly sequence employed represents a possible means of assembly but does not constitute a contract requirement. The contractor is responsible for developing the means and methods used for such work during performance of the contract and for full compliance with contract requirements.

### Assembly Sequence

1. Fabricate skin plate 'B' sub-assembly (orange) by attaching bearing stiffener plates #1 to skin plate.
2. Repeat Step 1 for skin plate 'C' sub-assembly (green) and shear plate 'c' sub-assembly (yellow).
3. Position and attach skin plate 'B' sub-assembly to tower base plate.
4. Repeat Step 3 for skin plate 'C' sub-assembly and shear plate 'c' sub-assembly.
5. Fasten skin plates 'B' and 'C' together at thickened corner.
6. Attach diagonal stiffener plate (blue) to skin plate sub-assemblies 'B' and 'C' and base plate.
7. Attach thickened portion of shear plate 'c' (blue) to skin plate sub-assembly 'B' and base plate.
8. Attach reinforcing plates (red) to bearing stiffener plates #1.
9. Attach bearing stiffener plates #2 (red) to bearing stiffener plates #1. Start with the one closest to the skin plate.
10. Bring completed shear plate 'c' assembly into position with thickened portion of shear plate 'c' (blue), and attach together.

\* Note that the colors referenced in the assembly sequence refer to the drawing on the preceding page. For actual construction, the color scheme was changed.

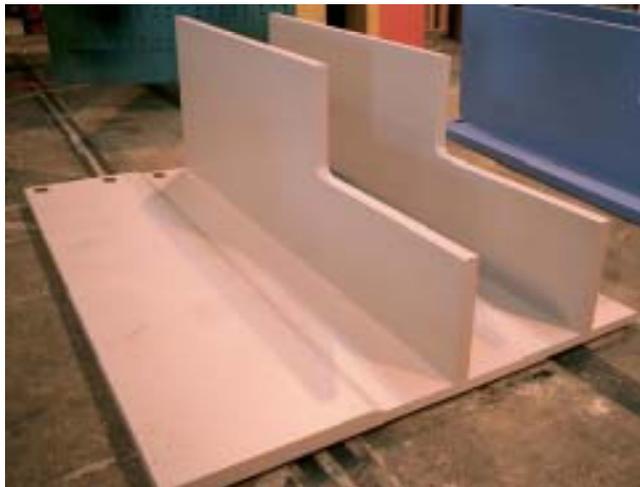
## San Francisco-Oakland Bay Bridge, Full Scale Mock-up of Tower Base



**Step 1**  
Skin plate 'B' complete with stiffeners



**Step 1**  
Attach bearing stiffener plates #1 to skin plate 'B'



**Step 2**  
Skin plate 'C' complete with stiffeners



**Step 2**  
Attach bearing stiffener plates #1 to skin plate 'C'

## San Francisco-Oakland Bay Bridge, Full Scale Mock-up of Tower Base



**Step 2**  
Shear plate 'c' complete with stiffeners



**Step 2**  
Attach bearing stiffener plates #1 to shear plate 'c'



**Step 3**  
Position sub-assembly 'B' and attach it to base plate



**Step 4**  
Position sub-assembly 'C' and attach it to base plate

## San Francisco-Oakland Bay Bridge, Full Scale Mock-up of Tower Base



**Step 4**  
Position sub-assembly 'c' and attach it to base plate



**Step 6**  
Install diagonal stiffener plate



**Step 6**  
Install diagonal stiffener plate



**Step 7**  
Attach thickened portion of shear plate 'c' to sub-assembly 'B'

## San Francisco-Oakland Bay Bridge, Full Scale Mock-up of Tower Base



**Step 8**  
Attach reinforcing plates to bearing stiffener #1 plates



**Step 9**  
Attach bearing stiffeners #2 to bearing stiffeners #1



**Step 10**  
Attach assembly 'c' to thickened portion of shear plate  
'c'



**Mock-up complete**