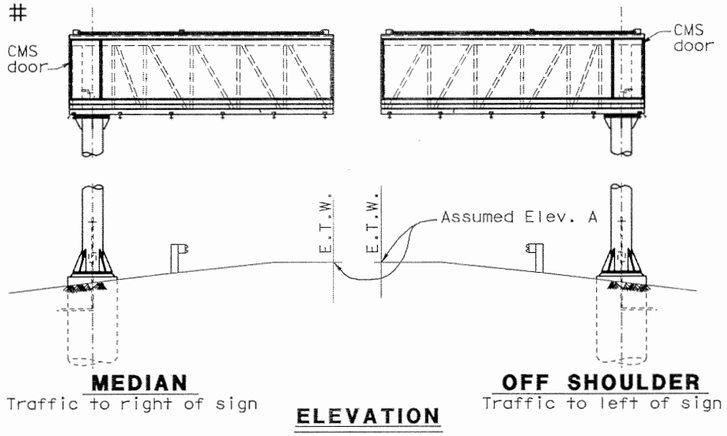
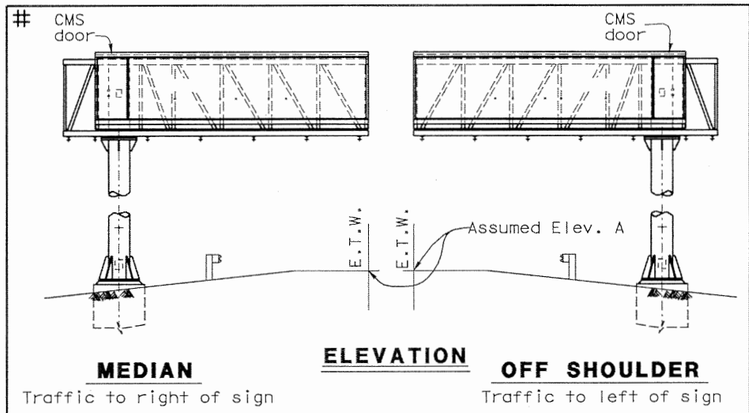


FULL CANTILEVER

# TABLE R (QUANTITIES)		
"h"(m)	Weight (kg.) walkway 1 side	Weight (kg.) walkway 2 sides
4.9	4828	5566
5.5	4914	5652
6.1	5000	5738
6.7	5087	5825
7.3	5173	5911



UNBALANCED BUTTERFLY

# TABLE R (QUANTITIES)		
"h"(m)	Weight (kg) walkway 1 side	Weight (kg) walkway 2 sides
4.9	5151	5937
5.5	5237	6023
6.1	5324	6110
6.7	5410	6196
7.3	5496	6282

PRELIMINARY NOTES

FOUNDATION DESIGN

Foundation design is based on 2001 AASHTO article 13.6 Brams' approximate procedure assuming a cohesionless material. The angle of internal friction used is 30 degree and unit weight of soil pressure is 1922 kg/m^3.

Foundation review and foundation recommendations for pile length are required. Pile length can not be less than 5.5m.

Review shall included alternative foundation types where CIDH pile foundation is not recommended. Project Plans and Structure Details may need revisions per foundation recommendations.

Not to be included in contract documents.

 # Instructions for using this sheet:

1. Read "PRELIMINARY NOTES" above.
2. Choose the type of CMS desired, and place this information in "Table 1" under the heading "CMS Type".
3. Determine the "h" value based on site information, and enter that value in "Table 1" under the heading "h".
4. Find the "h" value in "TABLE R" of the type of CMS you are using and find the quantity given in either the "1 side" or "2 sides" column, and enter this value in"Table 1" under the "Furnish" heading and the "Install" heading. Indicate on this sheet if you are using walkways on 1 side or two sides of truss by choosing the appropriate note "1".
5. Continue to fill in "Table 1" with the appropriate corresponding values for CMS you are using.

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

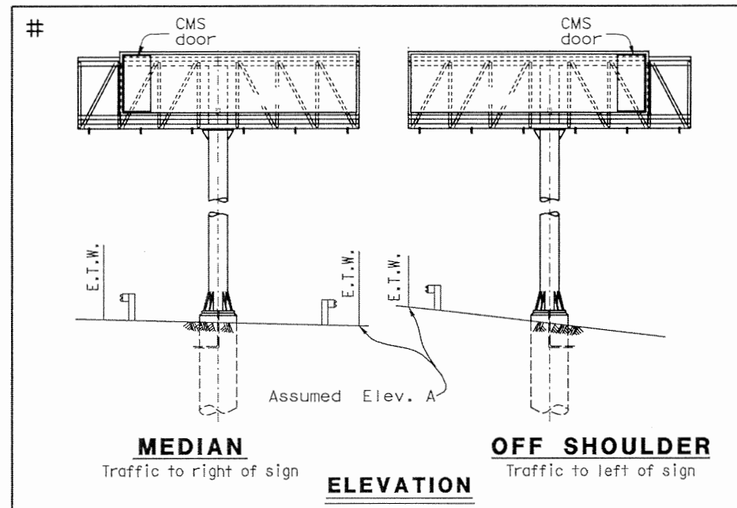
REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to: http//www.dot.ca.gov

Model 510 Reactions

Axial (kN)	Shear (kN)	Bending Moment (kN-m)
53	35	271



BALANCED BUTTERFLY

# TABLE R (QUANTITIES)		
"h"(m)	Weight (kg.) walkway 1 side	Weight (kg.) walkway 2 sides
4.9	5303	6148
5.5	5390	6235
6.1	5476	6321
6.7	5562	6407
7.3	5649	6494

TABLE I

CMS Type	Loc No.	Station	Route	Orien-tation	X (m)	"h"(m)	Assumed Elev A(m)	** Elev B(m)	QUANTITIES Furnish (kg)	Install (kg)	1220 mm Dia CIDH Pile (m)
							100.00		See TABLE R	See TABLE R	*

* See data from foundation recommendations
** Assumed Elev. B is at bottom of Base plate

NOTES:

1. Quantities are based on either 1-side or 2-sides walkway.
2. For layout and dimensions see "LAYOUT" sheet.
3. Quantities do not include "State furnished CMS Panel".
4. The contractor shall verify all controlling field dimensions before ordering or fabricating any material.

SIGN PLAN
MODEL 510
CHANGEABLE MESSAGE SIGNS
OVERHEAD SIGN TRUSS SINGLE POST
DESIGN TABLE

DETAILS | QUANTITIES | DATE | CALCULATED/DESIGNED BY | CHECKED BY | PROJECT ENGINEER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans SPECIAL DESIGNS BRANCH

LAST REVISION 04-24-06 | DATE PLOTTED => 24-APR-2006 TIME PLOTTED => 17:08

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100 | USERNAME => klin DGN FILE => | sht30.dgn | CU | EA