

GENERAL NOTES

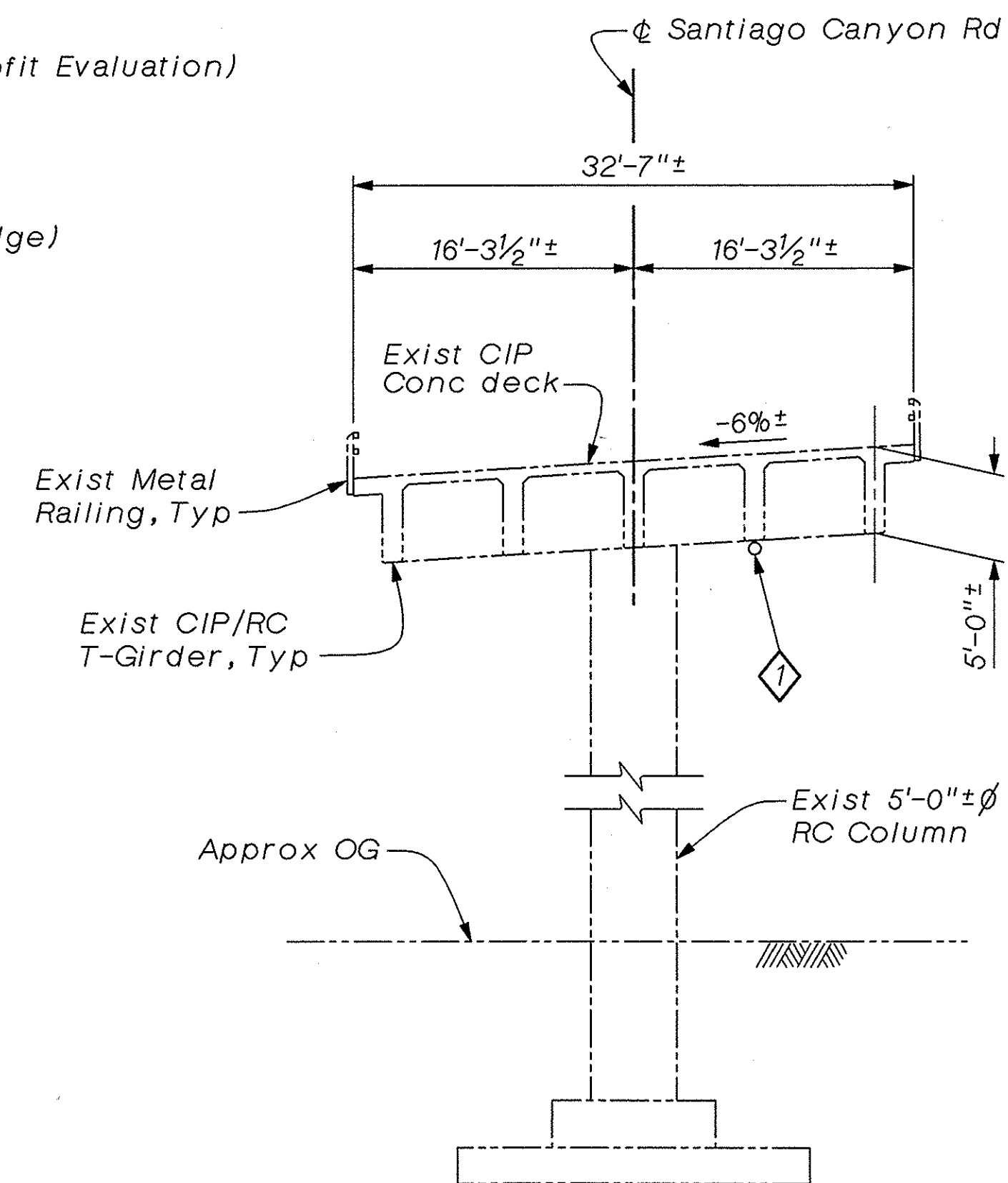
LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS
(1983 AASHTO with Interims and
Revisions by CALTRANS)

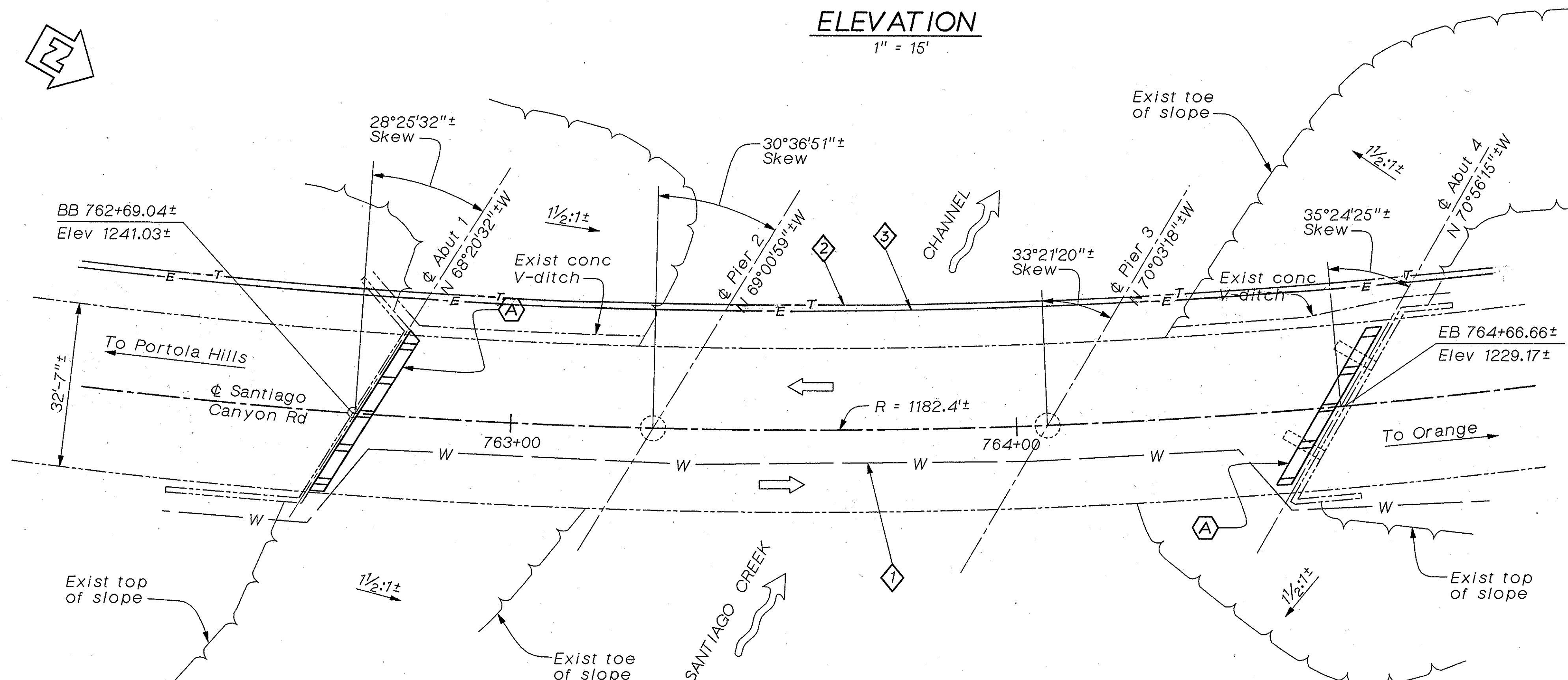
SEISMIC ATC-32 ARS Curve
LOADING: Peak Bedrock Acceleration = 0.4g
Soil Profile = Type D
Fault Moment Magnitude = 7.5

REINFORCED Existing Concrete
CONCRETE: (Assumed for Retrofit Evaluation)
 $f_y = 44,000 \text{ psi}$
 $f'_c = 4,500 \text{ psi}$
 $n = 7$

New Concrete (Bridge)
 $f_y = 60,000 \text{ psi}$
 $f'_c = 3,250 \text{ psi}$
 $n = 9$



TYPICAL SECTION
 $\frac{1}{8}'' = 1'-0''$



PLAN
1" = 15'

UTILITY LEGEND

- 1 8" $\phi \pm$ Exist. Water Line
(S.C.W.D.)
- 2 Exist. Overhead Pacific Bell
Telephone Line
- 3 Exist. Overhead Southern California
Edison Power Lines

RETROFIT LEGEND

- Transverse Shear Key

AS BUILT

CORRECTIONS BY G. ZAUN / RWH
CONTRACT NO. 59Y021
DATE 2-8-02 / 10-24-02

NO AS BUILT CHANGES

INDEX TO PLANS

<u>SHEET No.</u>	<u>TITLE</u>
1.	GENERAL PLAN
2.	ABUTMENT 1 RETROFIT DETAILS
3.	ABUTMENT 4 RETROFIT DETAILS
4.	ABUTMENT RETROFIT DETAILS
5.	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL
6.	AS-BUILT LOG OF TEST BORINGS

Note:
The Contractor shall verify all
controlling field dimensions before
ordering or fabricating any material.

LEGEND

- - - Existing structure
 — New construction
 → Direction of traffic
 ~~~~~→ Direction of flow

|                                                                                    |            |                            |                                 |                                                |                                         |  |                                            |                            |                       |  |  |                                               |  |                                                      |  |                                         |  |  |                                       |           |  |  |  |  |  |       |    |   |   |
|------------------------------------------------------------------------------------|------------|----------------------------|---------------------------------|------------------------------------------------|-----------------------------------------|--|--------------------------------------------|----------------------------|-----------------------|--|--|-----------------------------------------------|--|------------------------------------------------------|--|-----------------------------------------|--|--|---------------------------------------|-----------|--|--|--|--|--|-------|----|---|---|
| SHAWN SUN <i>Shawn Sun</i><br>DESIGN OVERSIGHT<br><i>12/29/97</i><br>SIGN OFF DATE | DESIGN     | BY <i>M. ZAHEDI/A. HOU</i> | CHECKED <i>S. XIE/A. TRUONG</i> | LOAD FACTOR DESIGN                             | PREPARED FOR THE<br>COUNTY OF<br>ORANGE |  | <i>G.J. NASCIMENTO</i><br>PROJECT ENGINEER | BRIDGE NO.                 | SANTIAGO CREEK BRIDGE |  |  |                                               |  |                                                      |  |                                         |  |  |                                       |           |  |  |  |  |  |       |    |   |   |
|                                                                                    | DETAILS    | BY <i>I. RUBIANO</i>       | CHECKED <i>J. LU</i>            | LAYOUT                                         |                                         |  |                                            | BY <i>I. RUBIANO</i>       |                       |  |  |                                               |  |                                                      |  |                                         |  |  | CHECKED <i>J. LU</i>                  | 55C-0049  |  |  |  |  |  |       |    |   |   |
|                                                                                    | QUANTITIES | BY <i>H. LAM</i>           | CHECKED <i>M. ZAHEDI</i>        | SPECIFICATIONS                                 |                                         |  |                                            | BY <i>M. ZAHEDI/A. HOU</i> |                       |  |  |                                               |  |                                                      |  |                                         |  |  | PLANS AND SPECS COMPARED <i>J. LU</i> | POST MILE |  |  |  |  |  |       |    |   |   |
|                                                                                    |            |                            |                                 | ORIGINAL SCALE IN INCHES,<br>FOR REDUCED PLANS |                                         |  |                                            | 0 1 2 3                    |                       |  |  | CU 12 152<br>EA L02106<br>CONTRACT NO. 59Y021 |  | DISREGARD PRINTS BEARING<br>EARLIER REVISION DATES → |  | REVISION DATES (PRELIMINARY STAGE ONLY) |  |  |                                       |           |  |  |  |  |  | SHEET | OF |   |   |
|                                                                                    |            |                            |                                 |                                                |                                         |  |                                            |                            |                       |  |  |                                               |  |                                                      |  |                                         |  |  |                                       |           |  |  |  |  |  |       |    | 1 | 6 |