

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12					

G.J. NASCIMENTO
 REGISTERED CIVIL ENGINEER
 No. 44871
 Exp. 3/31/98
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE
 LIM & NASCIMENTO ENGINEERING
 1971 East Fourth Street, Suite 200
 Santa Ana, California 92705

GENERAL NOTES LOAD FACTOR DESIGN

DESIGN:	BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS)			
SEISMIC LOADING:	ATC-32 ARS Curve Peak Bedrock Acceleration = 0.7g Soil Profile = Type D Fault Moment Magnitude = 7.5 Spectral Acceleration increased by 20%			
REINFORCED CONCRETE:	Existing Concrete (Assumed for Retrofit Evaluation) $f_y = 36,000 \text{ psi}$ $f'_c = 3,250 \text{ psi}$ New Concrete (Bridge) $f_y = 60,000 \text{ psi}$ $f'_c = 3,250 \text{ psi}$			
FOOTING PRESSURE:	(Service Loading KSF)			
		<u>Allowable</u>	<u>Design</u>	<u>Ultimate</u>
	Bents 2 & 3	1.5	1.5	4.5

AS BUILT

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

NO AS BUILT CHANGES

Notes:

- For Sections A-A & B-B, "View D-D" & "Channel Lining Detail", see "Bent Retrofit Details No. 2" sheet.
- For Footing layout and details, "Section C-C" & "Shear Key Detail", see "Bent Retrofit Details No. 3" sheet.

EARTHQUAKE RETROFIT

BREA CANYON BRIDGE No. 1

BENT RETROFIT DETAILS No. 1

BRIDGE NO.
55C-0123
POST MILE

G.J. NASCIMENTO
PROJECT ENGINEER

PREPARED FOR THE
COUNTY OF
ORANGE

DESIGN	BY G.J.N. / H. LAM	CHECKED R. CHAN
DETAILS	BY R. ANDRASEK	CHECKED R. CHAN/J. LU
QUANTITIES	BY H. LAM	CHECKED R. CHAN

ORIGINAL SCALE IN INCHES
FOR REDUCED PLANS

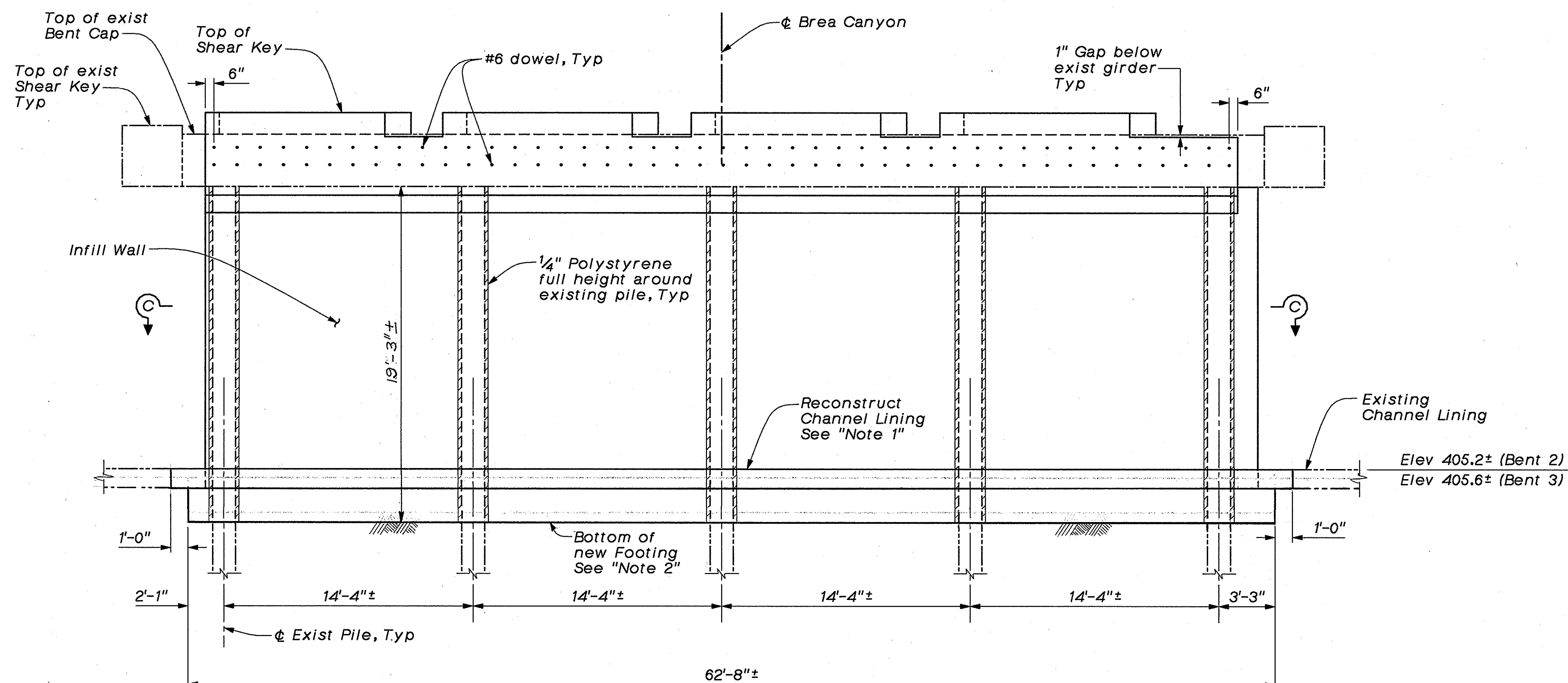
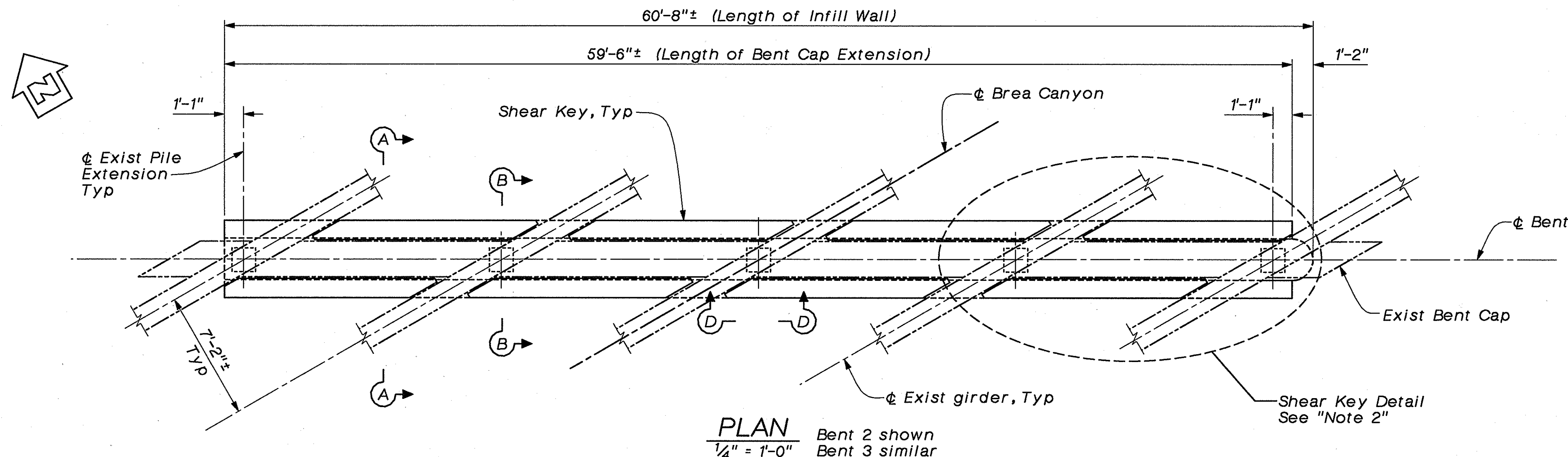
0 1 2 3

CU 12 152
EA L02105

DISREGARD PRINTS BEARING
EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 5 OF 8



Note: Exist superstructure not shown.

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

SHAWN SUN
DESIGN OVERSIGHT
SIGN OFF DATE 10/1/97