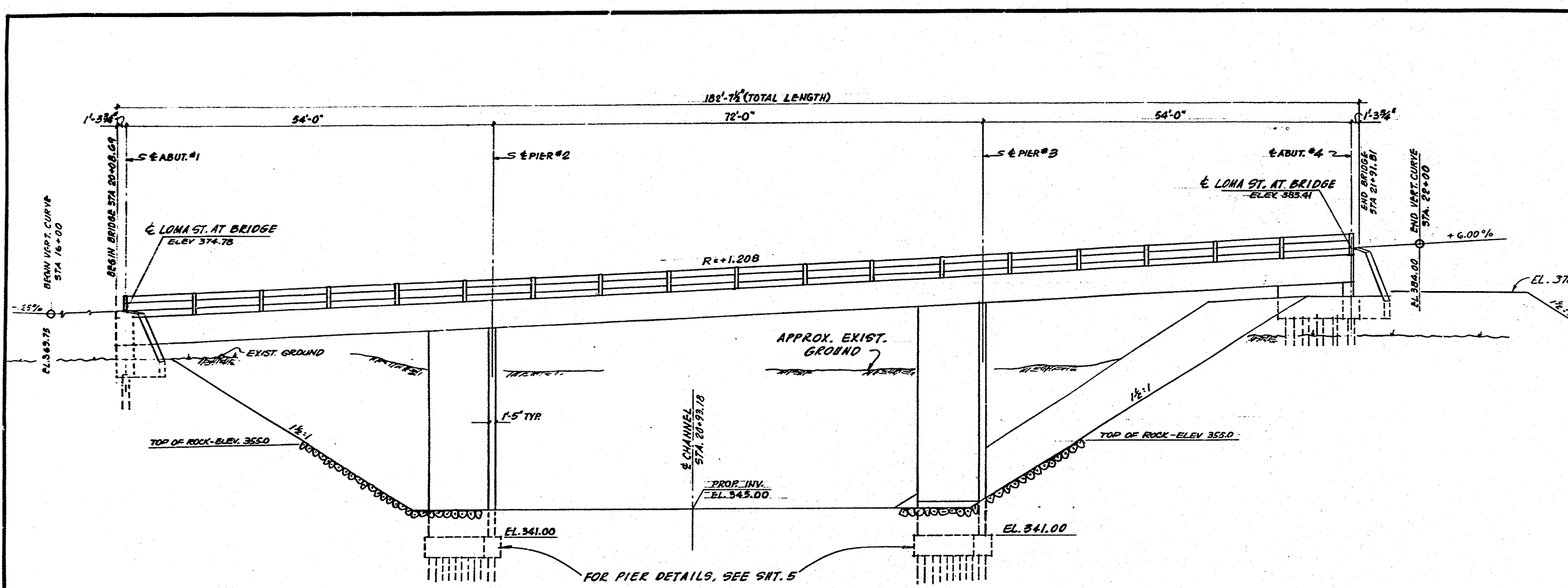
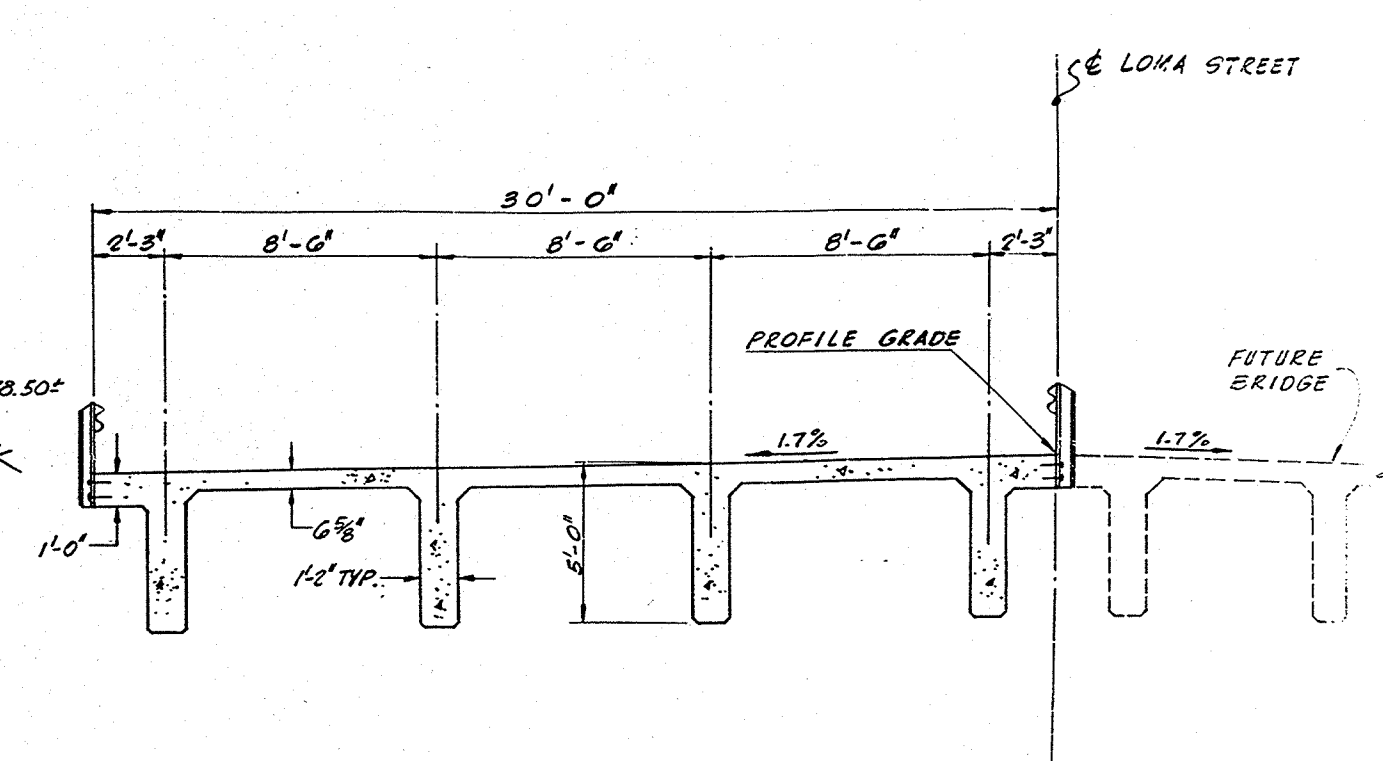
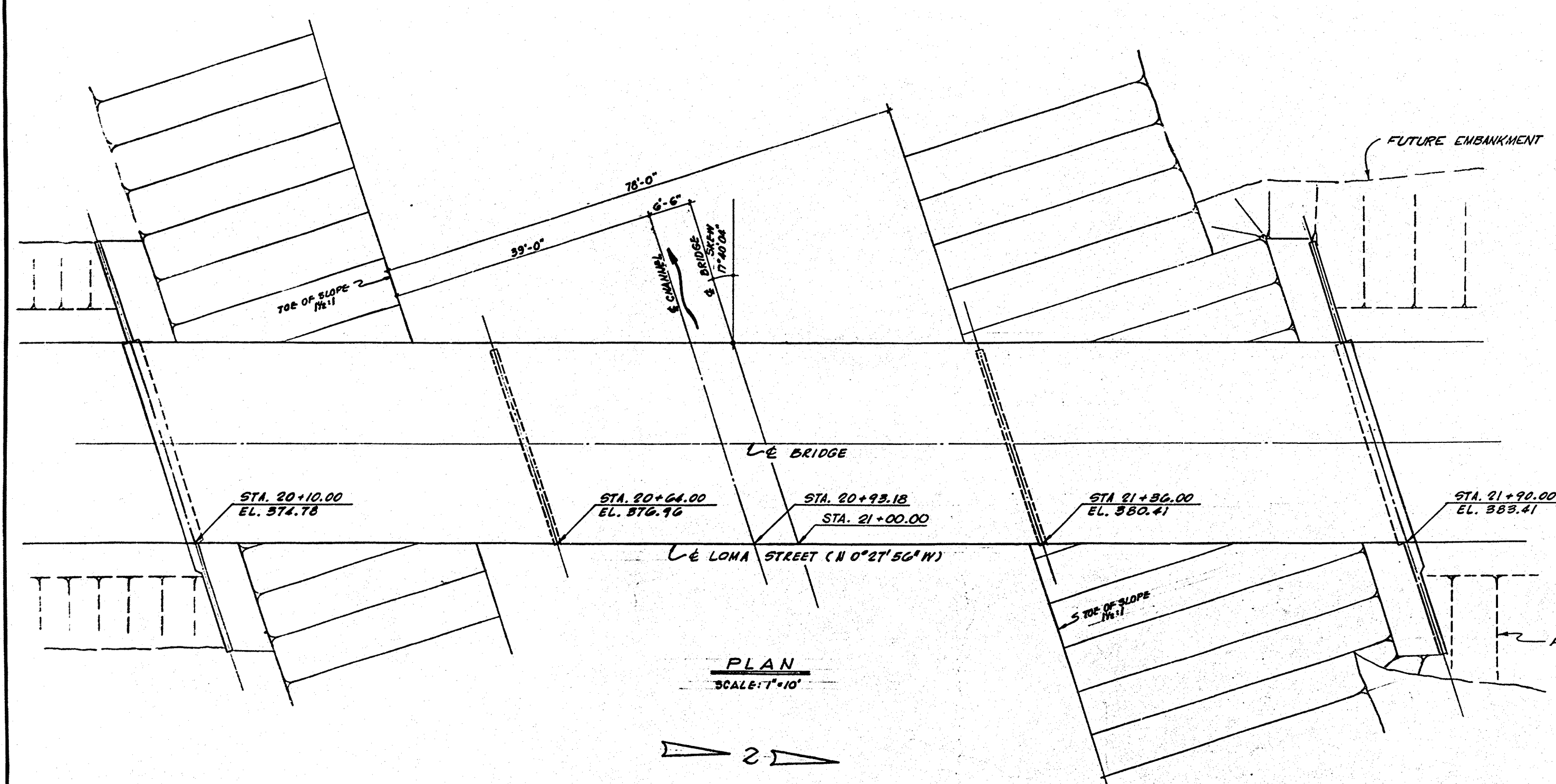




ELEVATION AND ϕ PROFILE GRADE
SCALES HORIZ: 1"=10'
VERT: 1"=10'



TYPICAL SECTION
SCALE: 1/4" = 1'-0"



PLAN
SCALE: 1"=10'

GENERAL NOTES

SPECIFICATIONS:
DESIGN: A.A.S.H.O. DATED 1965 WITH SUBSEQUENT REVISIONS, AND CALIF. DIVISION OF HIGHWAYS BRIDGE PLANNING AND DESIGN MANUAL.
CONSTRUCTION: STANDARD SPECIFICATIONS, DIVISION OF HIGHWAYS, CALIF. DATED JAN. 1969 AND THE "SPECIAL PROVISIONS".

LIVE LOADING: H20-S16-44

UNIT STRESSES:
REINFORCING STEEL: f_s TENSION = 24,000 P.S.I.; 20,000 P.S.I. IN SLAB.
 f_s COMP. = 16,000 P.S.I.
CONCRETE: f'_c = 1,300 P.S.I.; 1,200 P.S.I. IN SLAB f'_c = 3,250 P.S.I. @ 28 DAYS.
 n = 10
 V_c = 65 P.S.I.

PILE LOADING: 45 TONS. TYPE: STEEL "H" PILE

REINFORCEMENT: EMBEDMENT IS CLEAR TO OUTSIDE OF BAR AND IS 2" TO MAIN REINFORCEMENT, EXCEPT AS NOTED. BACKING FOR HOOKS IS FOUR DIAMETERS, EXCEPT AS NOTED. WHERE REINFORCING BARS ARE SPICED THEY SHALL HAVE A 24 DIAMETERS LAP UNLESS OTHERWISE NOTED.

CONCRETE: CLASS "A" USING TYPE II PORTLAND CEMENT.

ROCK SLOPE PROTECTION: CLASS 1/4 TON METHOD "B" PLACEMENT

BENCH MARK: NO. 140-G2 CITY OF ORANGE. RCE DISK 12578 IN TOP OF S.E. CORNER CURB RETURN @ SANTIAGO CANYON RD. & GABRILLO ST. DATUM EL. 383.348'

AS BUILT

SKREW ANGLE $\theta = 17^\circ 40' 04''$
 $\sin \theta = 0.30349725$
 $\cos \theta = .95283291$
 $\tan \theta = .31822116$

MICROFILMED
APR 1971

CONSTRUCTION PLANS
Loma Street Bridge
Sheet 2 of 11
Red. 22 Fil Scale: as shown
William

ENGINEERS ARCHITECTS PLANNERS 700 CAMPUS DRIVE, RIVERSIDE, CALIFORNIA 92506 (714) 833-2900

PREPARED UNDER SUPERVISION OF
AB SAMIIAN RCE #19395

ORANGE COUNTY ROAD DEPARTMENT

LOMA ST. BRIDGE
SC-II
OVER
SANTIAGO CREEK
GENERAL PLAN

SCALE: As Shown SHEET 2 OF 11

DR 11 (10475)