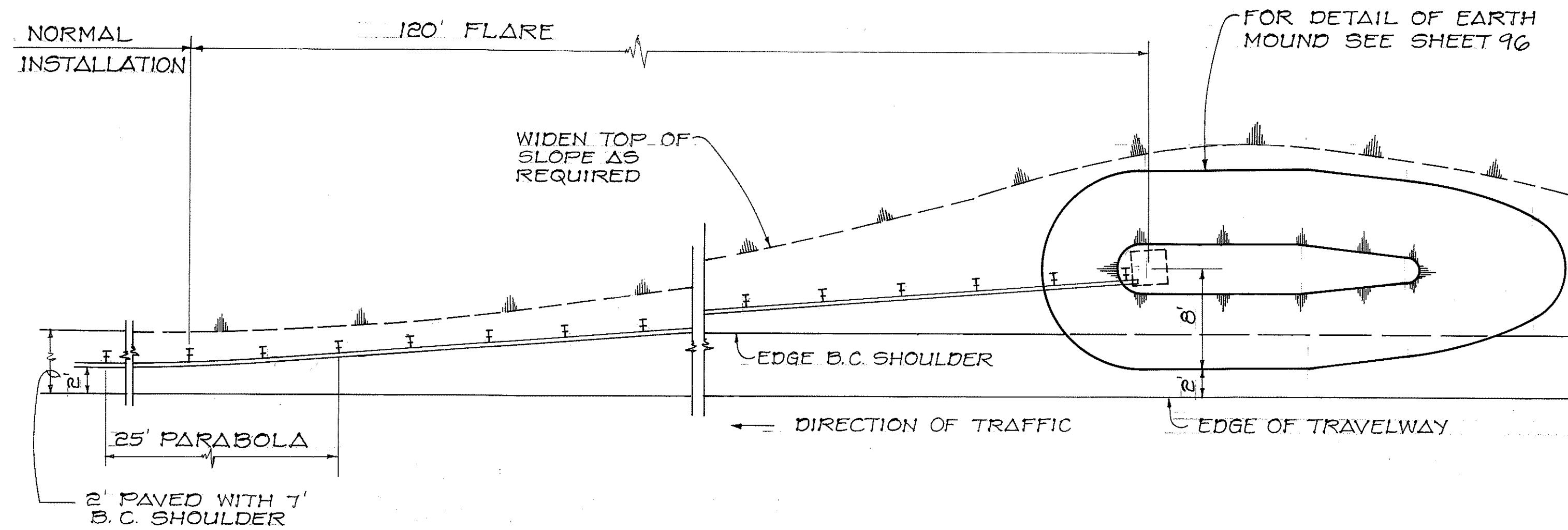
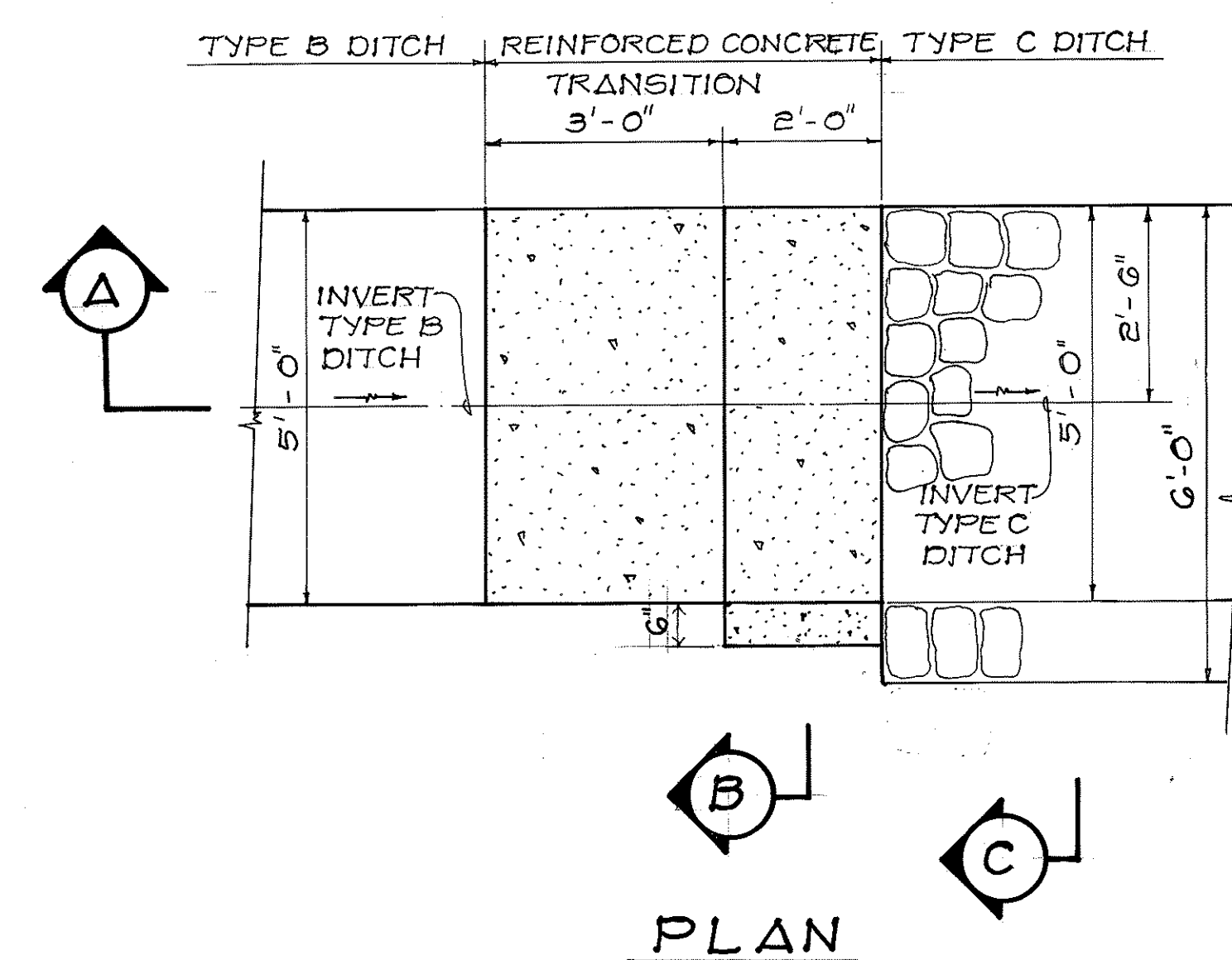


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-01-86	1987	95	115

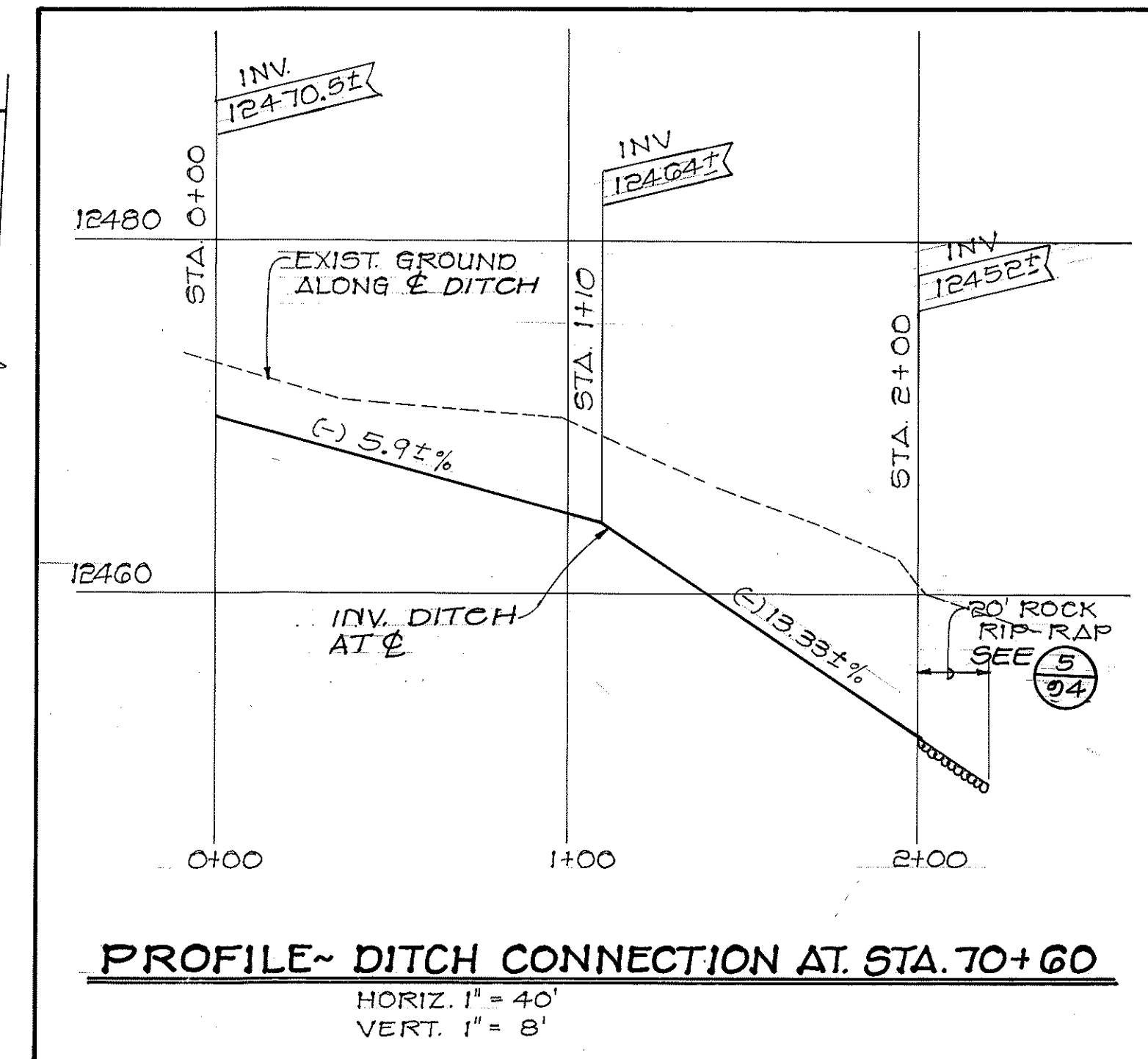


PLAN

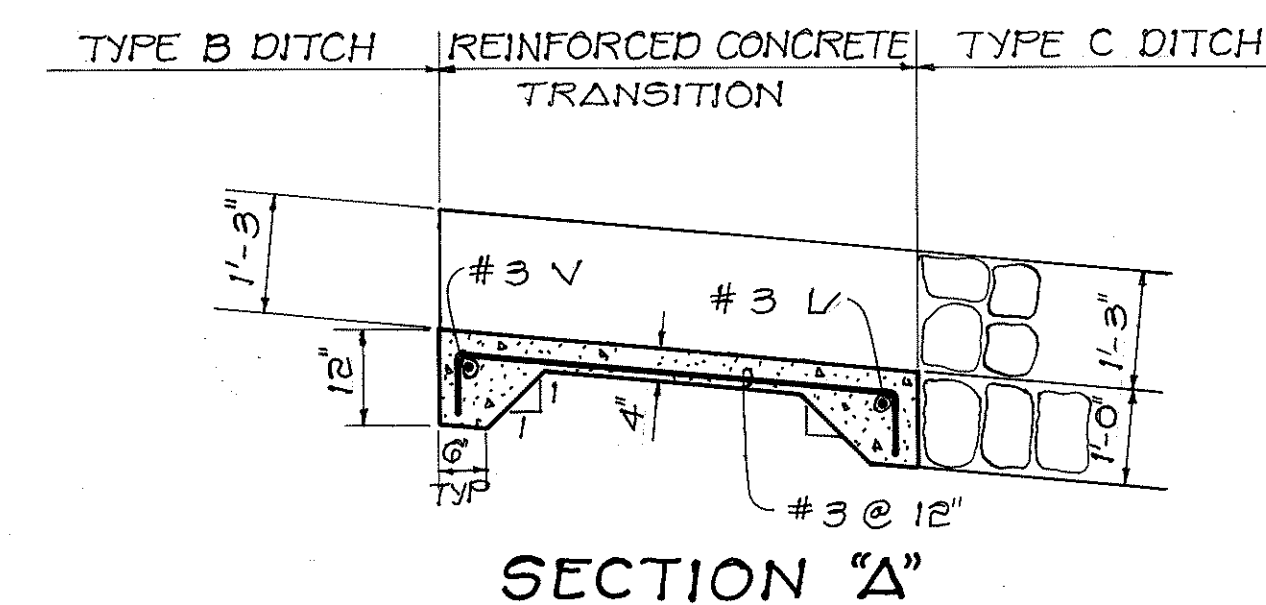
① TYPE A-2 FLARE
NO SCALE



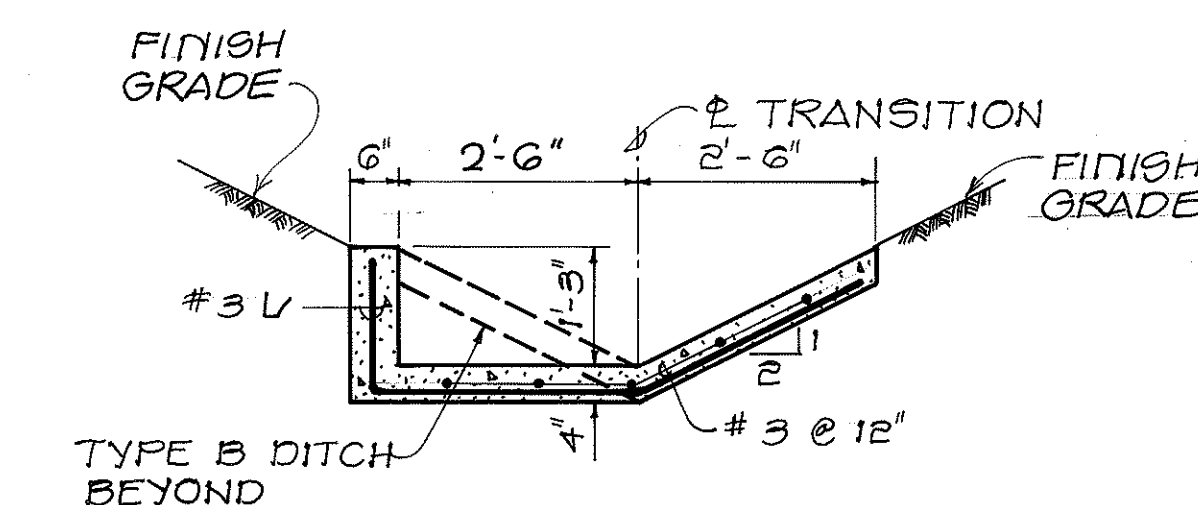
PLAN



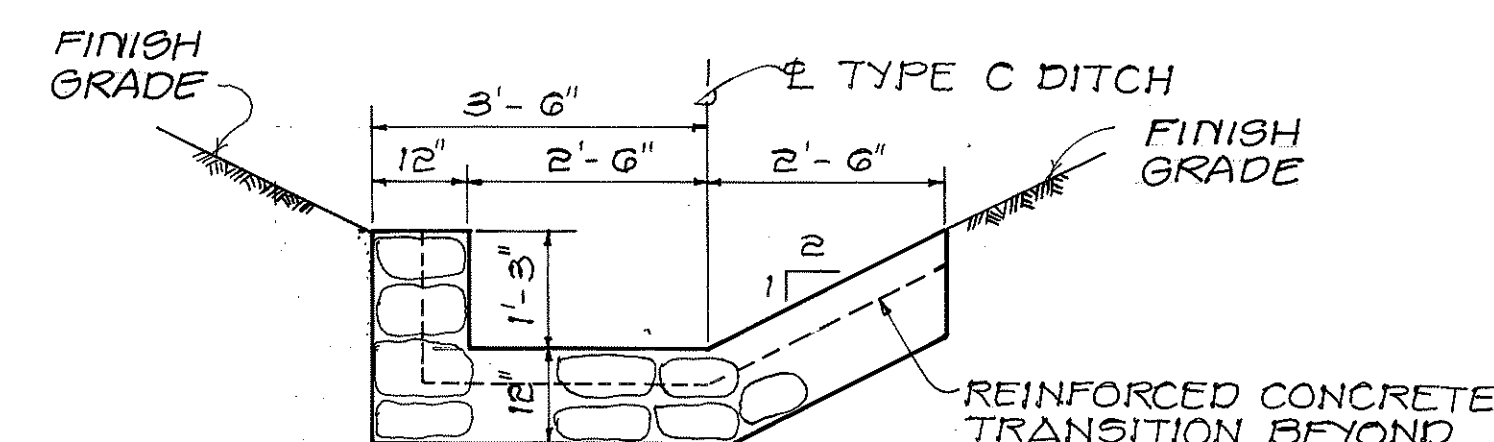
PROFILE~ DITCH CONNECTION AT STA. 70+60
HORIZ. 1" = 40'
VERT. 1" = 8'



SECTION "A"

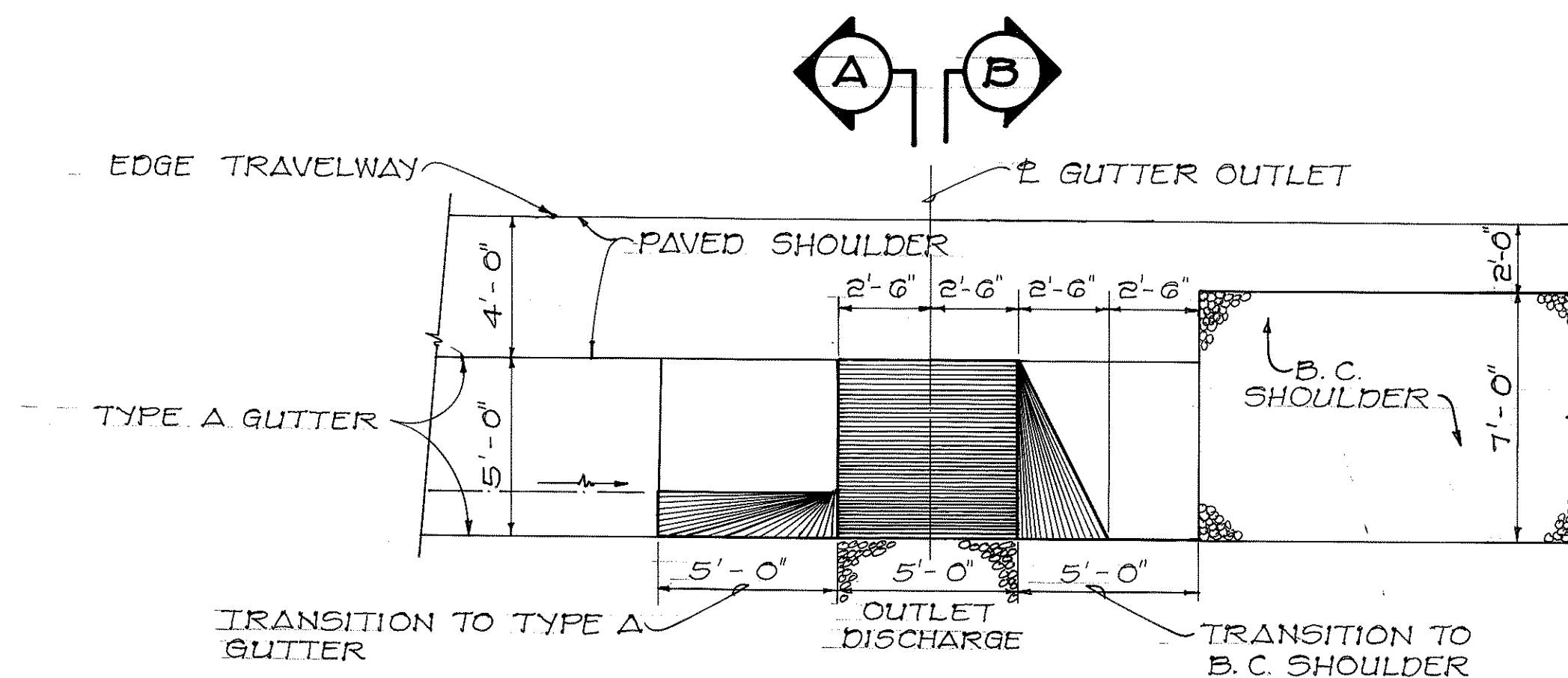


SECTION "B"

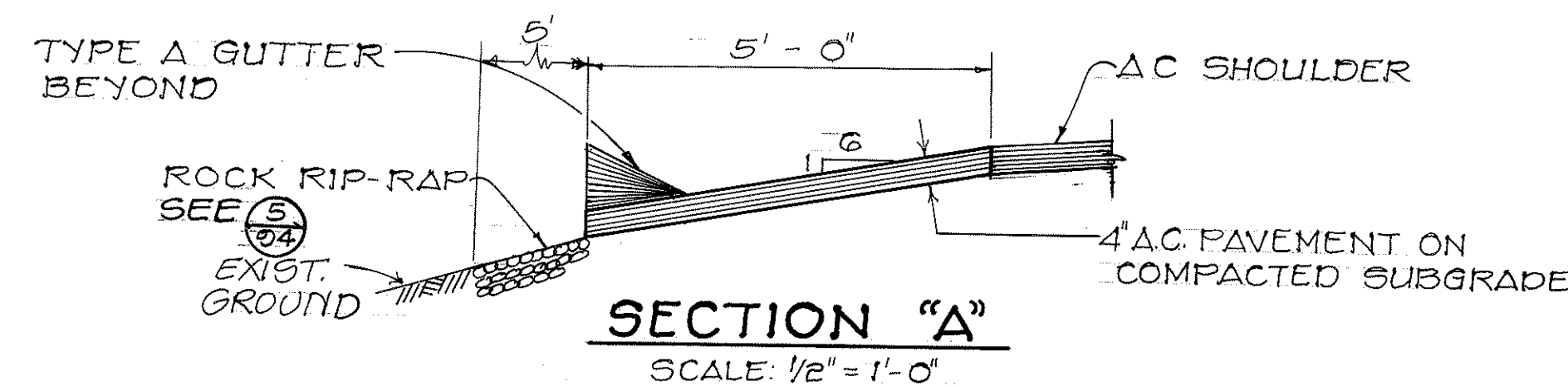


SECTION "C"

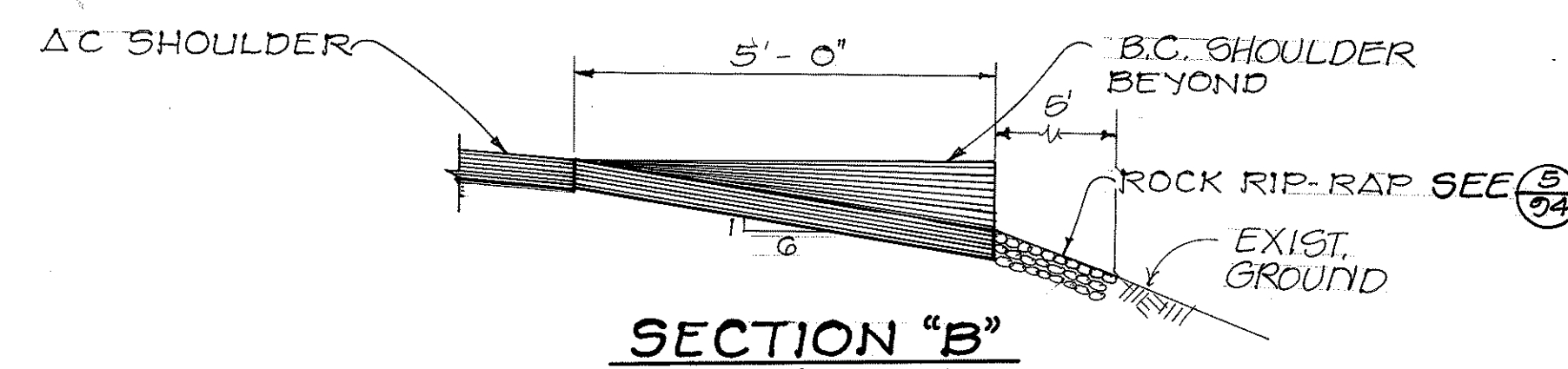
③ TYPE B DITCH TO TYPE C
DITCH TRANSITION
SCALE: 1/2" = 1'-0"



PLAN
SCALE: 1/4" = 1'-0"



SECTION "A"
SCALE: 1/2" = 1'-0"



SECTION "B"
SCALE: 1/2" = 1'-0"

② GUTTER OUTLET DETAIL
SCALE: AS SHOWN

ROYCE S. FUKUNAGA
REGISTERED PROFESSIONAL ENGINEER
No. 2107-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Royce S. Fukunaga
FUKUNAGA & ASSOCIATES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**DRAIN AND GUARDRAIL
DETAILS**

MAUNA KEA OBSERVATORY ACCESS ROAD
PHASE II-A
PROJECT NO. HWY-H-01-86

DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	