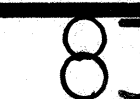
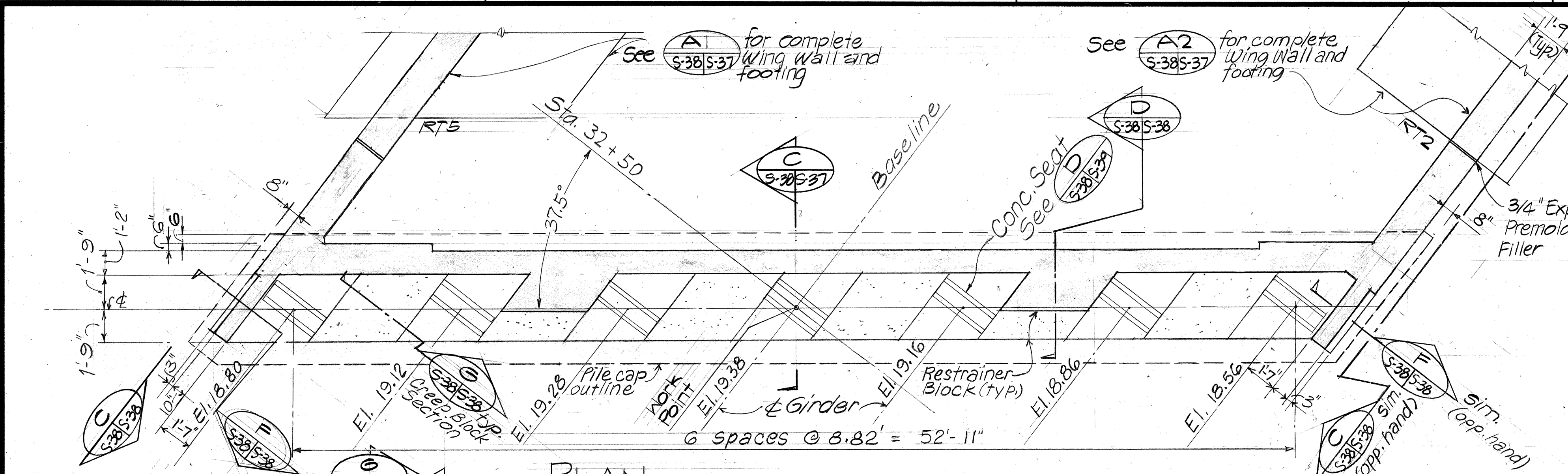


ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____	
NOTE BOOK	DRAWN BY _____	"
	TRACED BY _____	"
	DESIGNED BY _____	"
	QUANTITIES BY _____	"
No. _____	CHECKED BY _____	_____

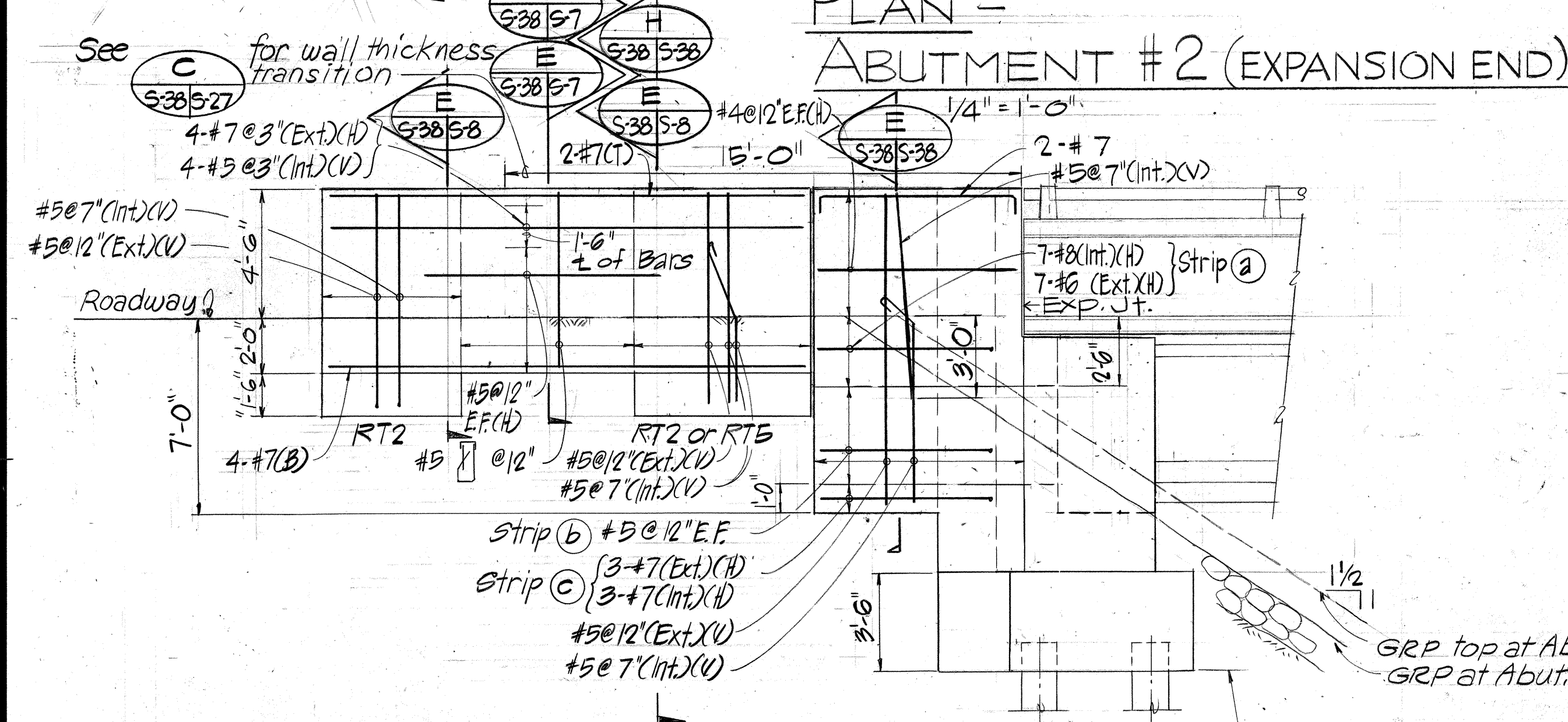


THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

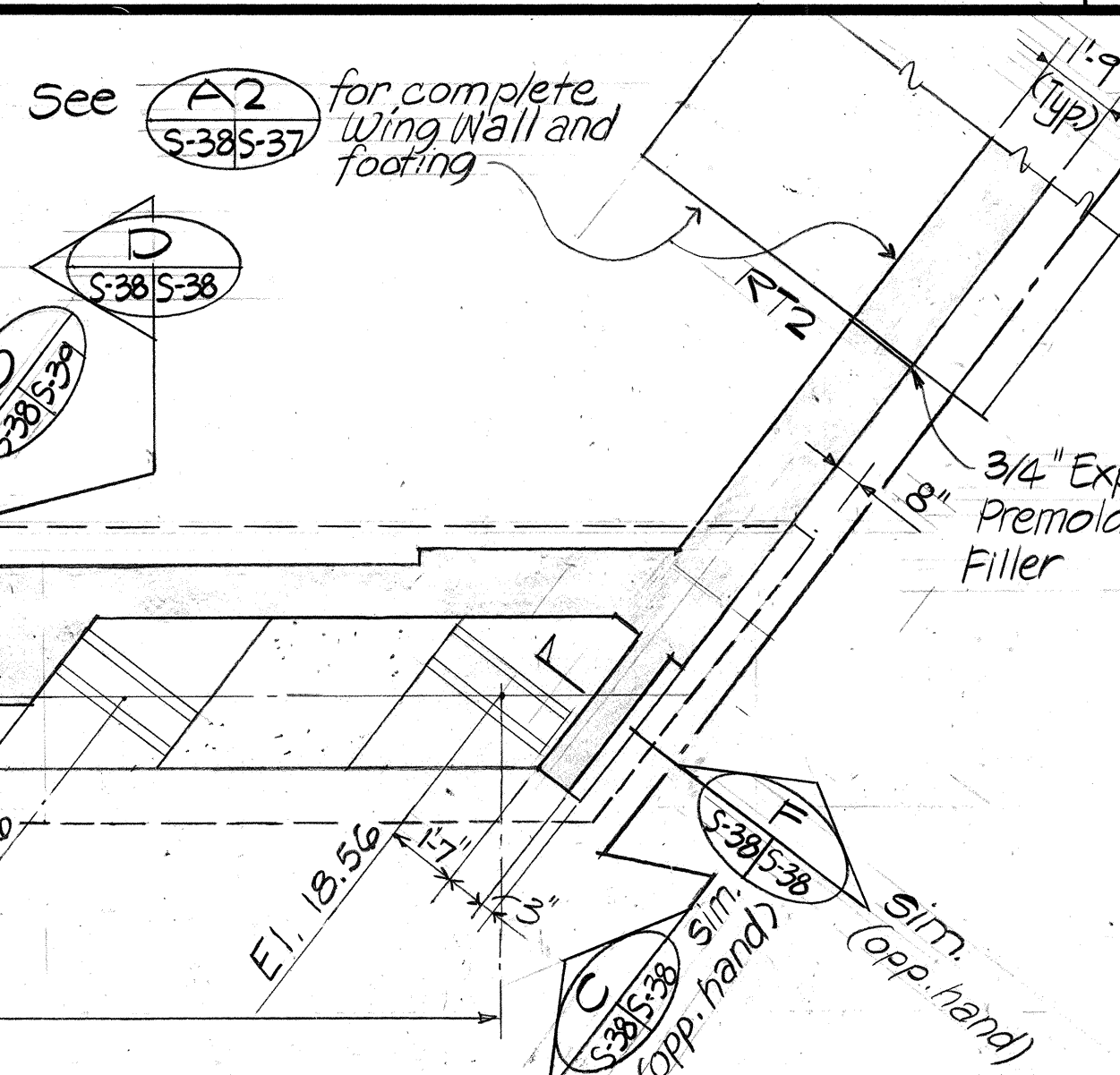
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(24)	1990	25	125



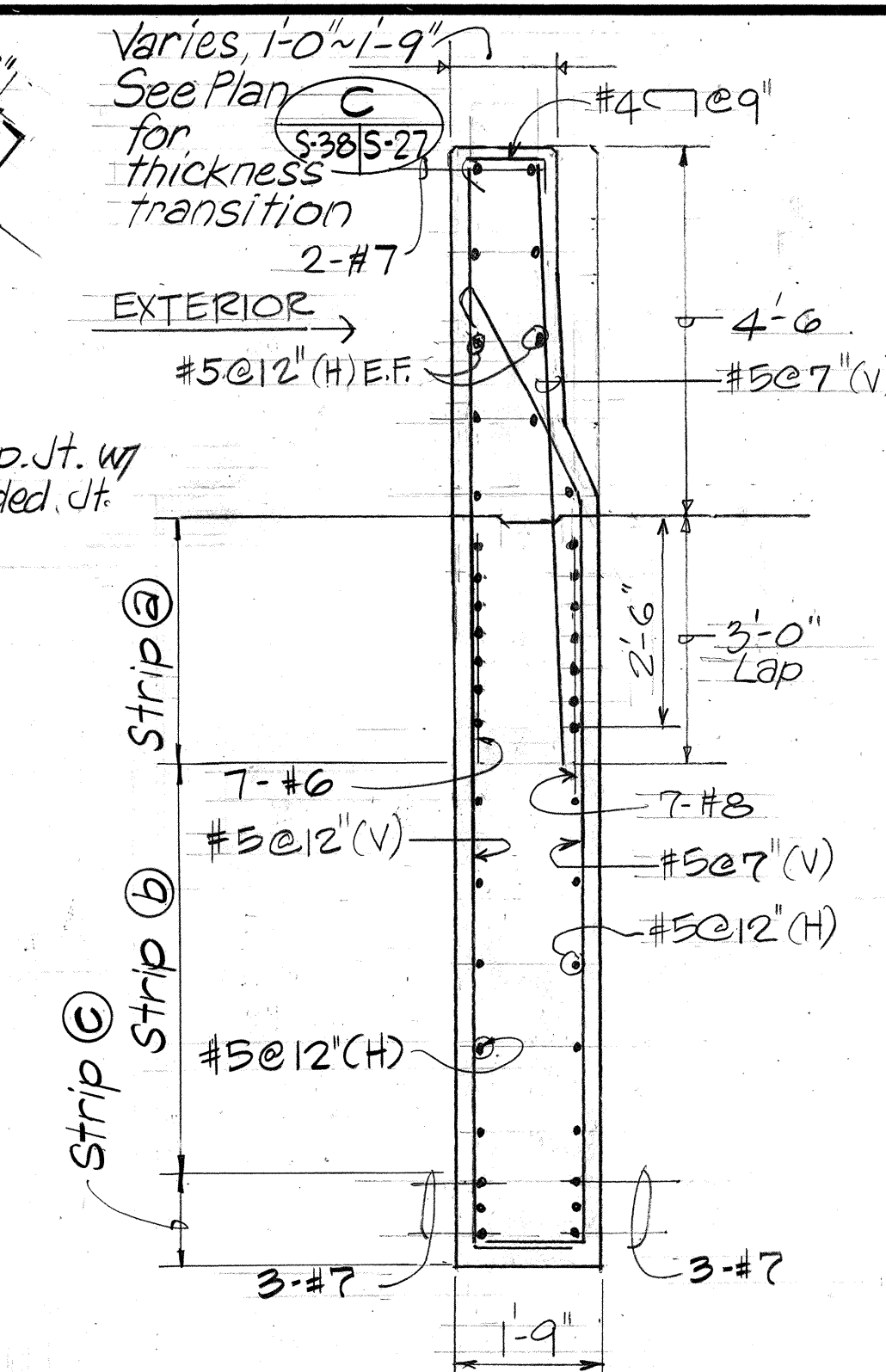
PLAN -
ABUTMENT #2 (EXPANSION END)



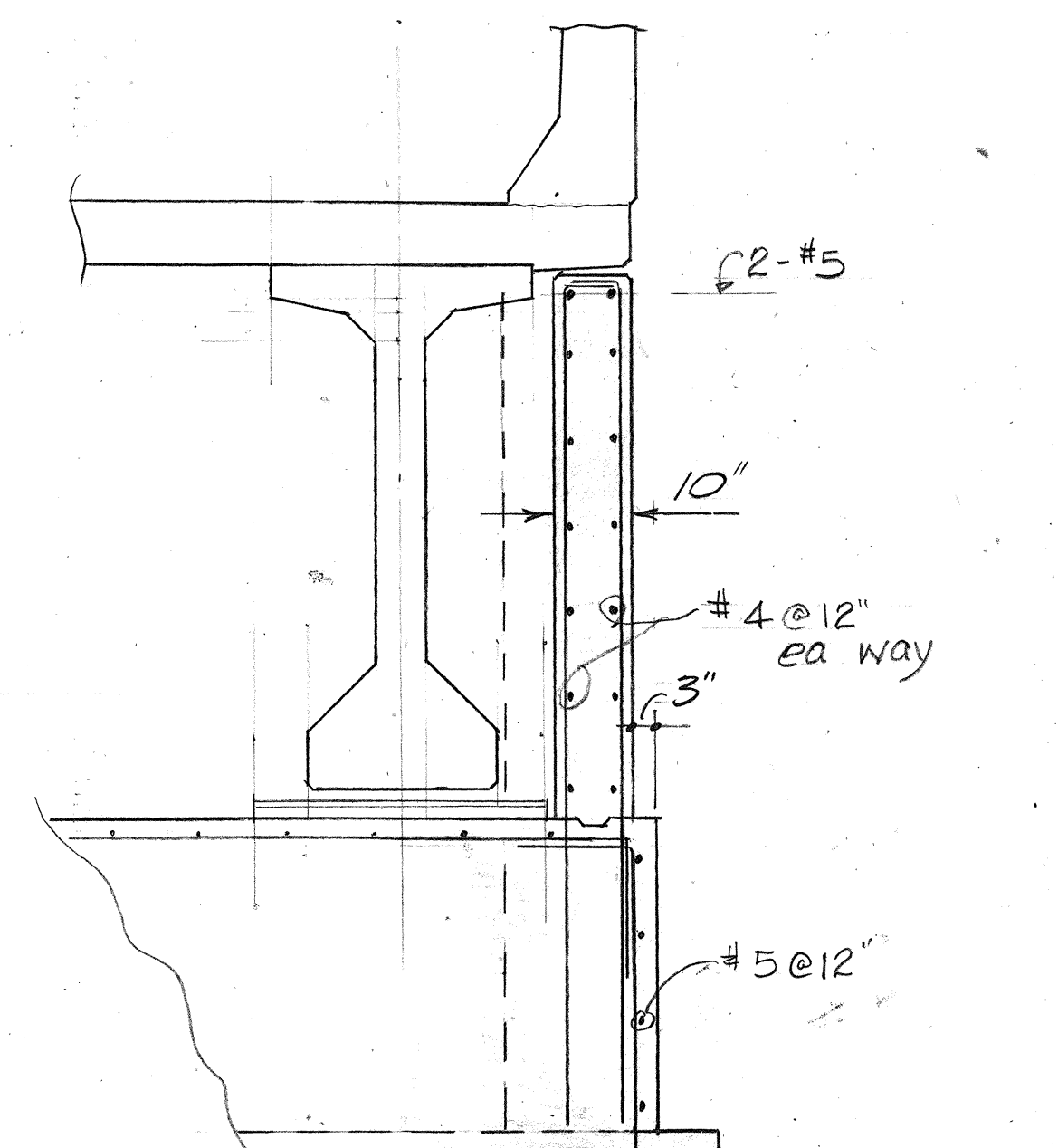
TYPICAL
ELEVATION-WING WALL
4'-1-0" (ABUT. #1 & #2)



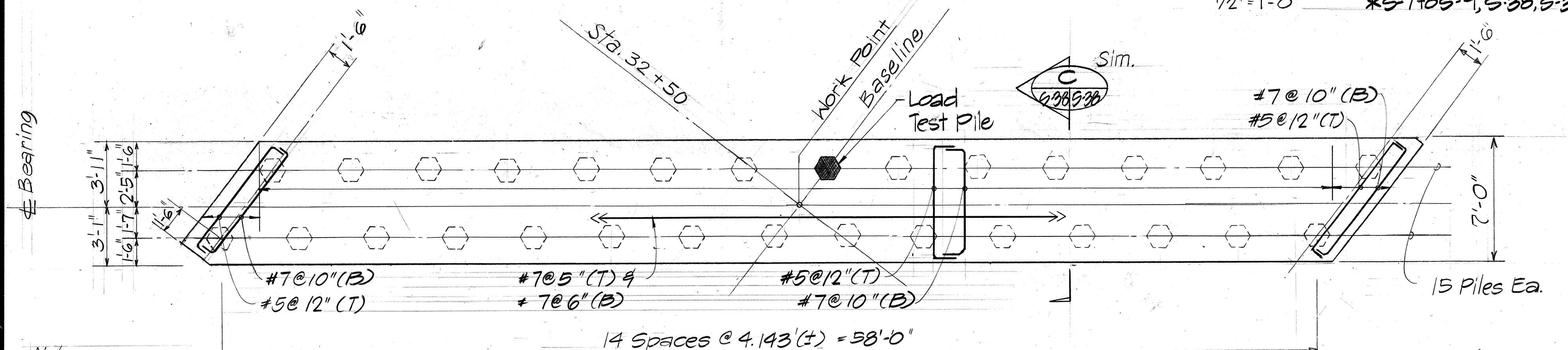
SECTION D
@ RESTRAINER
BLOCK (EXPANSION END)
1/2" = 1'-0"



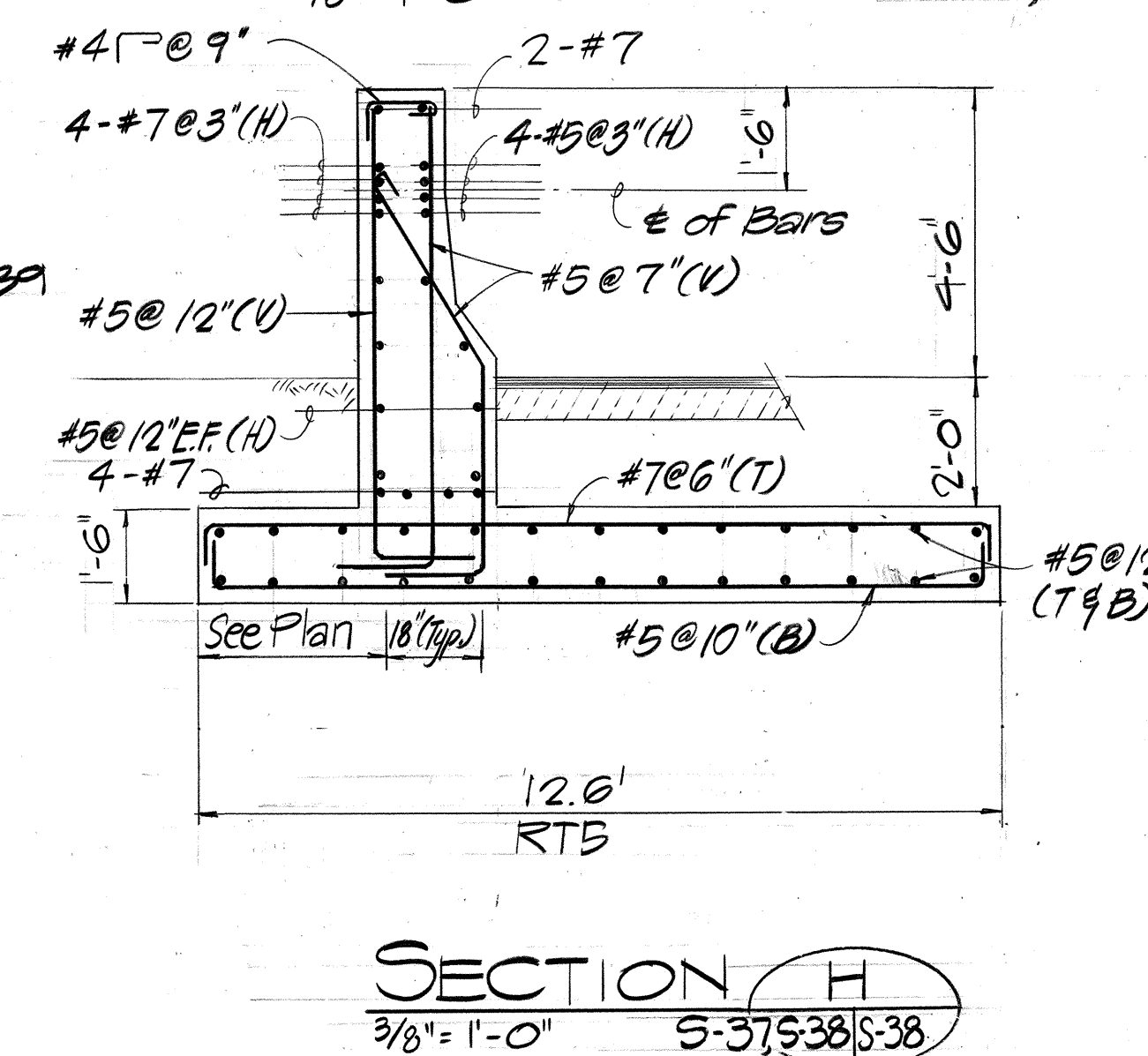
SECTION E
CREEP BLOCK
1/2" = 1'-0"



SECTION F
1/2" = 1'-0"



PILE LAYOUT - ABUTMENT #2
1/4" = 1'-0"



SECTION H
1/2" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**OPAEULA STREAM BRIDGE
ABUTMENT #2: PLAN AND PILE
LAYOUT; DETAILS**
KAMEHAMEHA HIGHWAY - HELEMANO/WAIALUA
JUNCTION TO HALEIWA BEACH PARK
(STRUCTURES)
FAP NO. F-083-1(24)

SHEET No. 38 OF SHEETS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

OPAEULA STREAM BRIDGE
CROSS AND LONGITUDINAL SECTIONS
CONCRETE SEAT DETAIL

KAMEHAMEHA HIGHWAY - HELEMANO/WAIALUA
JUNCTION TO HALEIWA BEACH PARK
(STRUCTURES)

FAP NO. F-083-1(24)

SHEET No. S-40 OF SHEETS