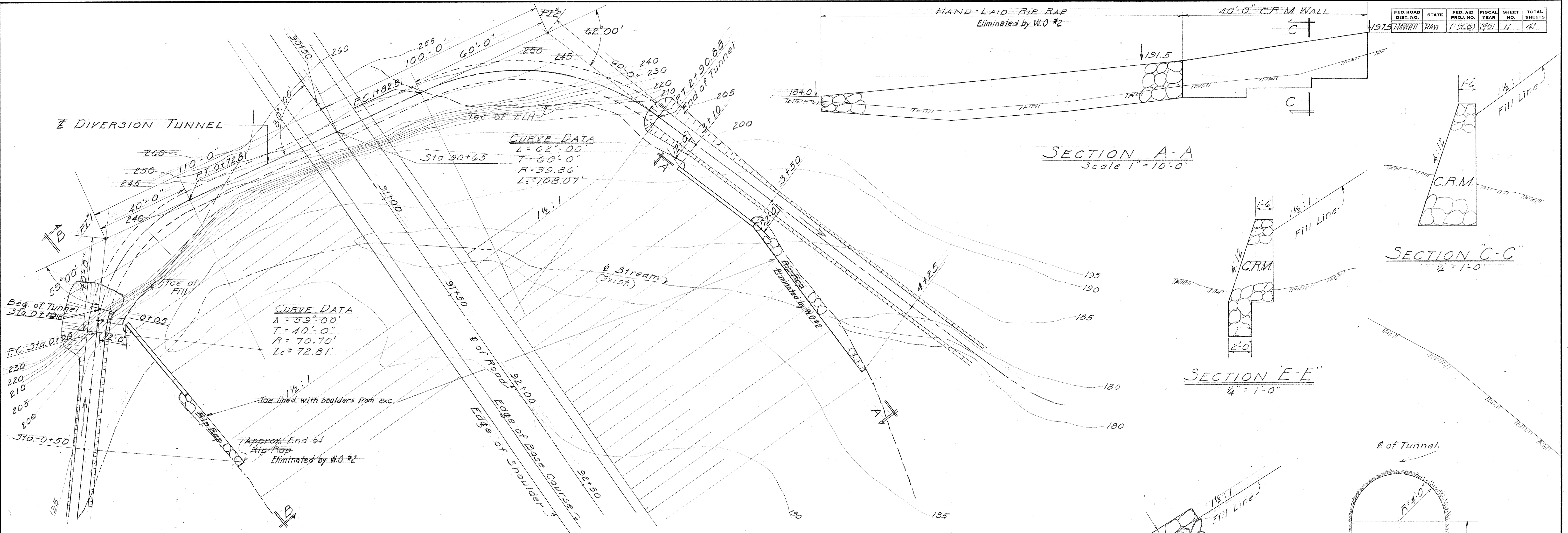


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1975	HAWAII	HAW	F 32(3)	11	41



SECTION A-A
Scale 1" = 10'-0"

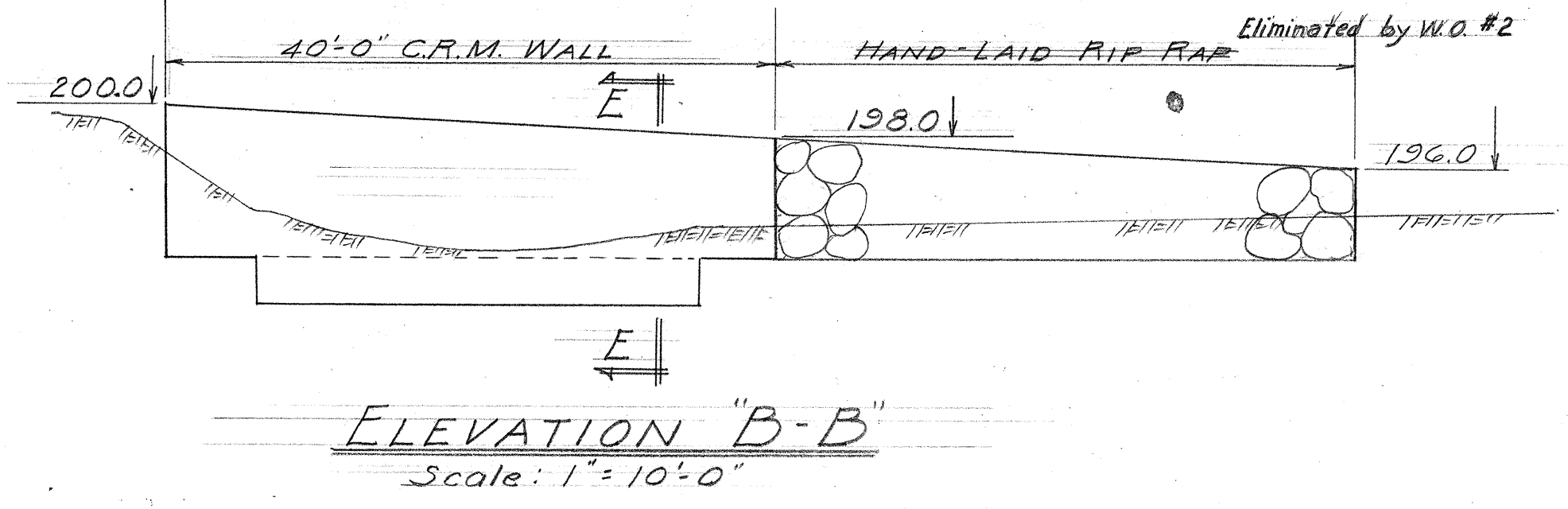
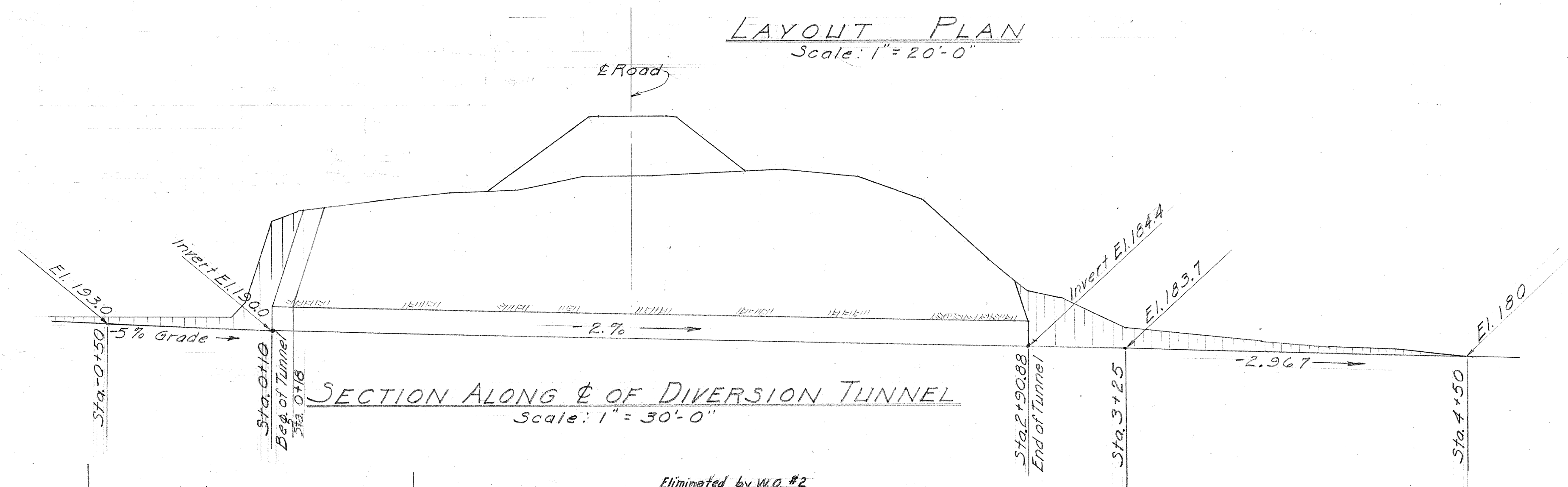
SECTION C-C
1/4" = 1'-0"

SECTION E-E
1/4" = 1'-0"

LAYOUT PLAN
Scale: 1" = 20'-0"

TYPICAL RIP-RAP SECTION
1/4" = 1'-0"

TYPICAL TUNNEL SECTION
1/4" = 1'-0"



ESTIMATED QUANTITIES		
ITEM	C.Y.	
WATER TUNNEL EXC.	767.0	732.1
C.R.M.	86.0	83.3
HAND LAID RIP-RAP	59.0	0.0
STRUCTURE EXC.	84.0	61.2
CHANNEL EXCAVATION	1000.0	1495.8

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
DIVERSION TUNNEL
AT KUIAHA GULCH
Sta. 90+65
HANA BELT ROAD F32(3)
MARCH, 1951

DATE: May 1951
DESIGNED BY: F. J. J. J.
DRAWN BY: F. J. J. J.
CHECKED BY: F. J. J. J.
NOTE BOOK NO.: