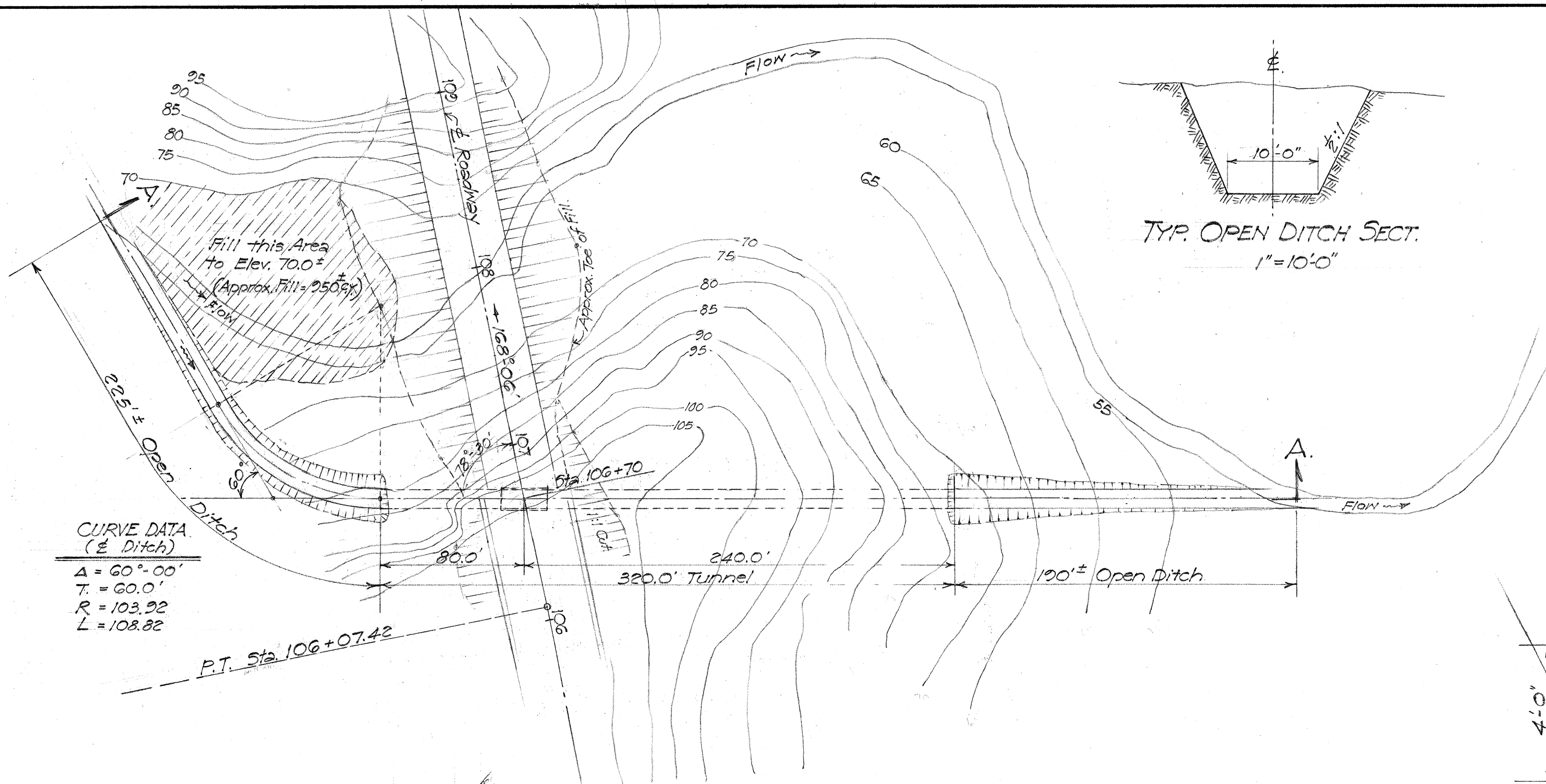
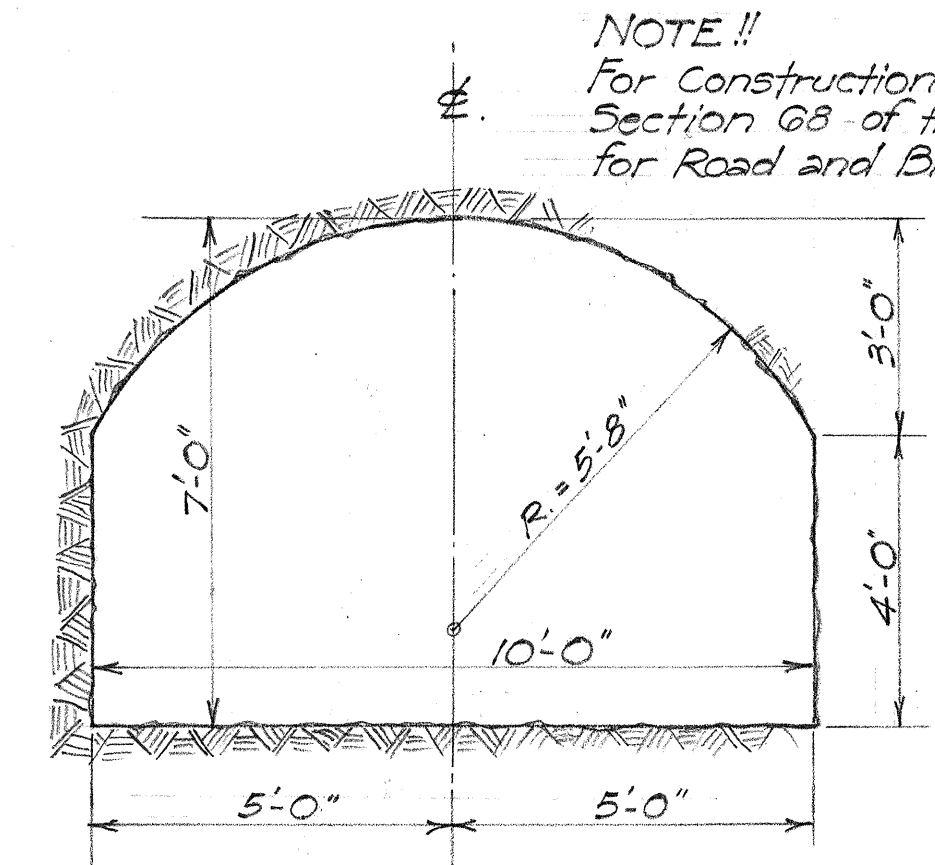


| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| Hawaii              | Haw   | F31(1)             | 1953        | 22        | 55           |



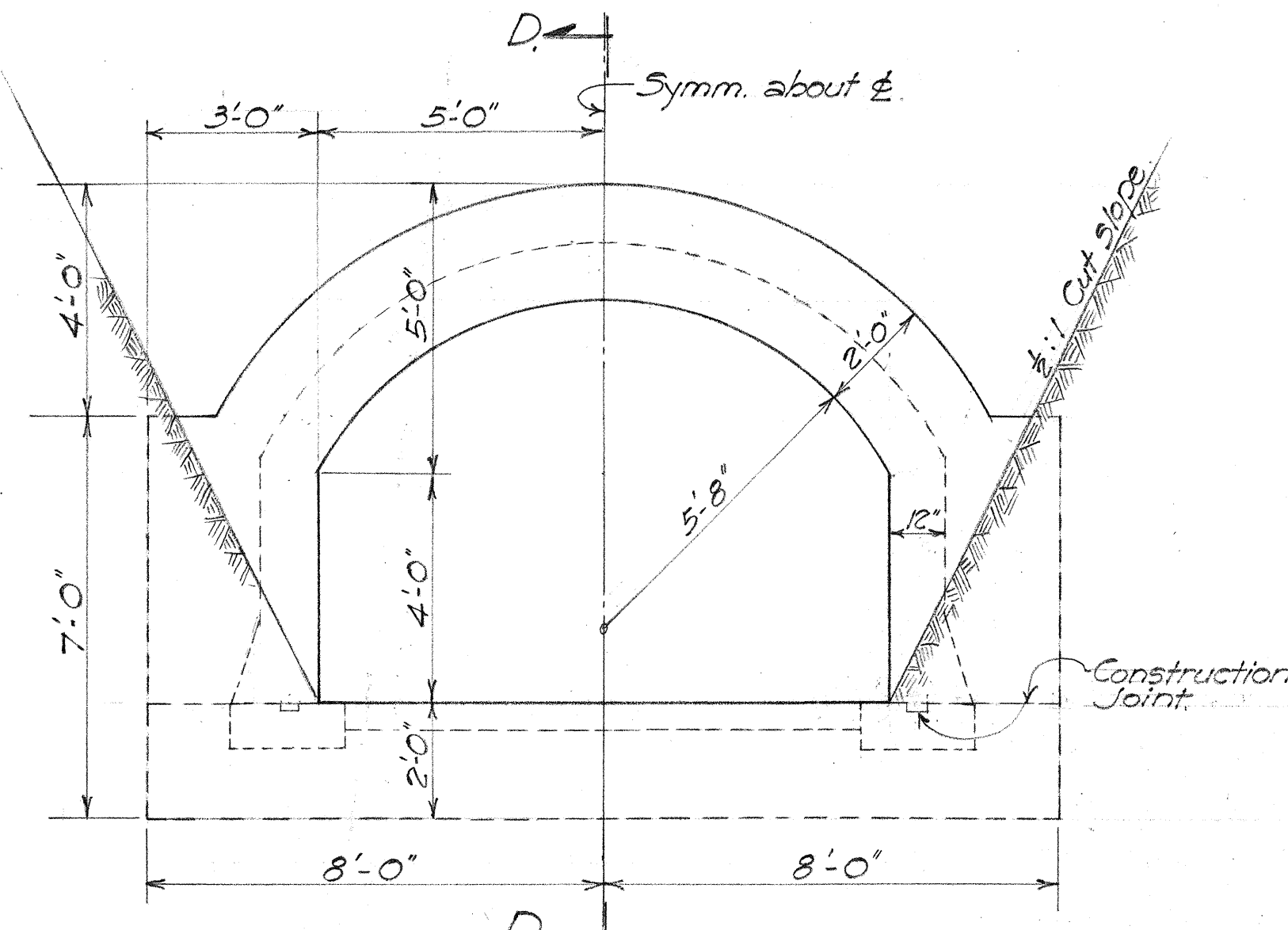
CURVE DATA  
(± Ditch)  
Δ = 60°-00'  
T = 60.0'  
R = 103.92  
L = 108.82

TYP. OPEN DITCH SECT.  
1" = 10'-0"

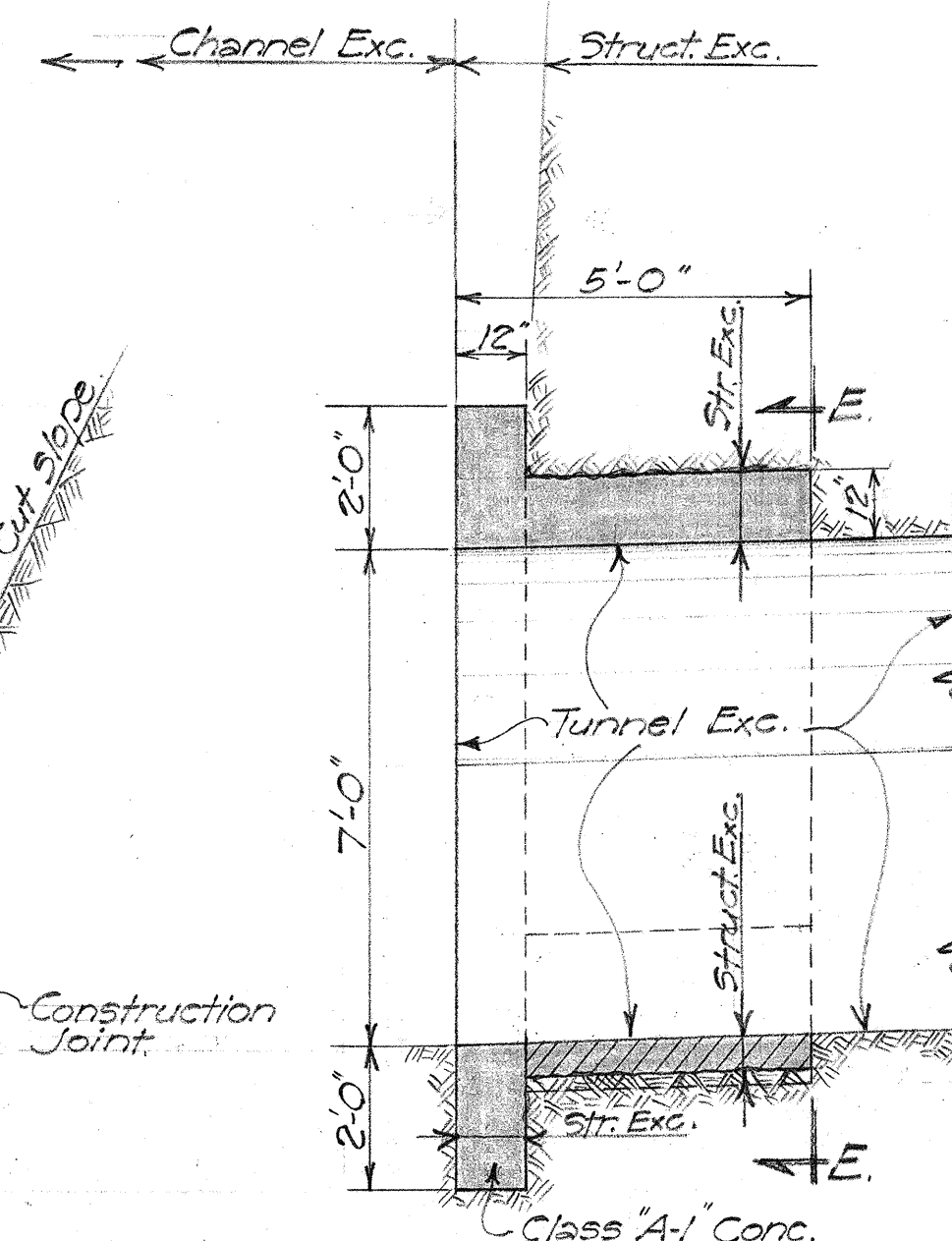


TYPICAL TUNNEL SECTION  
3/8" = 1'-0"

NOTE!!  
For Construction Methods refer to  
Section 68 of the "Std. Specifications  
for Road and Bridge Construction" for  
the Terr. Hwy. Dept.

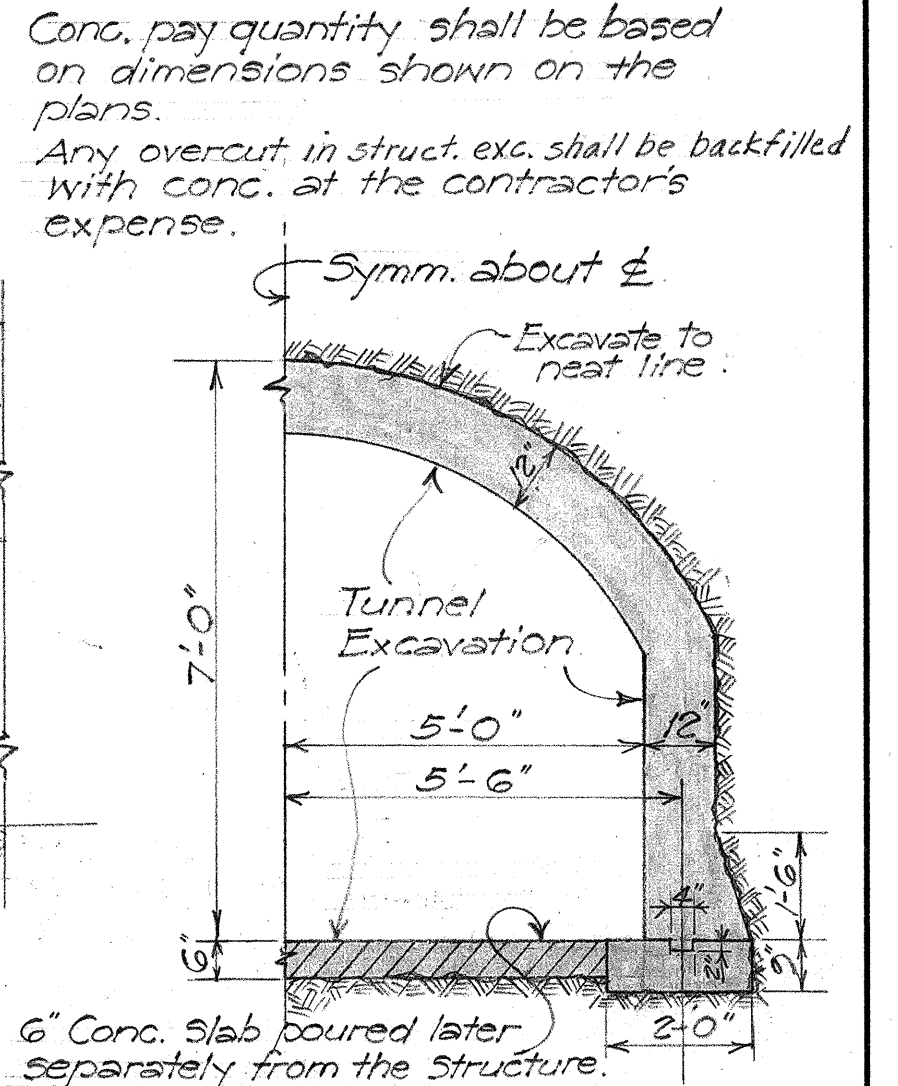


ELEVATION ~ OUTLET HEADWALL  
Intake Headwall similar  
3/8" = 1'-0"

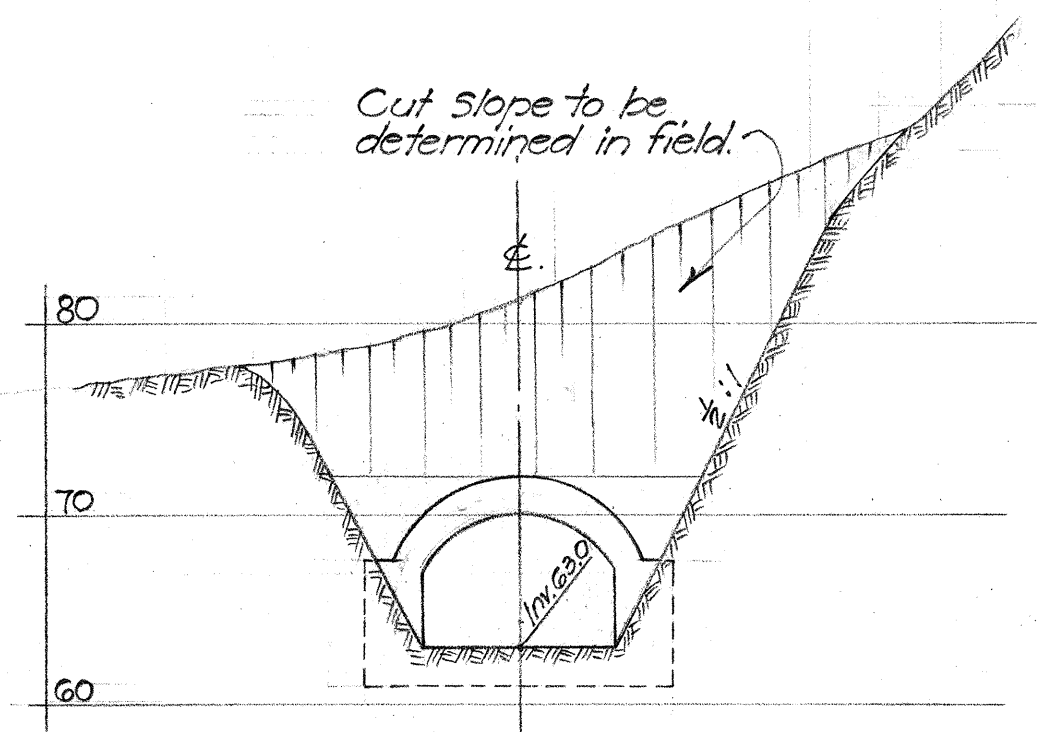


SECTION "D-D"  
3/8" = 1'-0"

NOTES:  
Overcut in struct. exc. beyond  
neat lines will not be measured  
or paid for.  
Conc. pay quantity shall be based  
on dimensions shown on the  
plans.  
Any overcut in struct. exc. shall be backfilled  
with conc. at the contractor's  
expense.

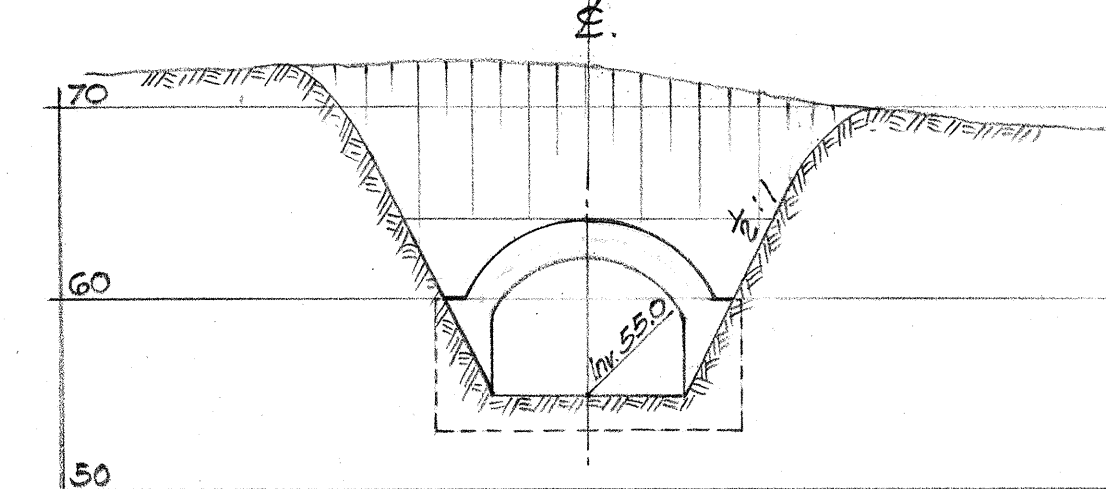


SECTION "E-E"  
3/8" = 1'-0"

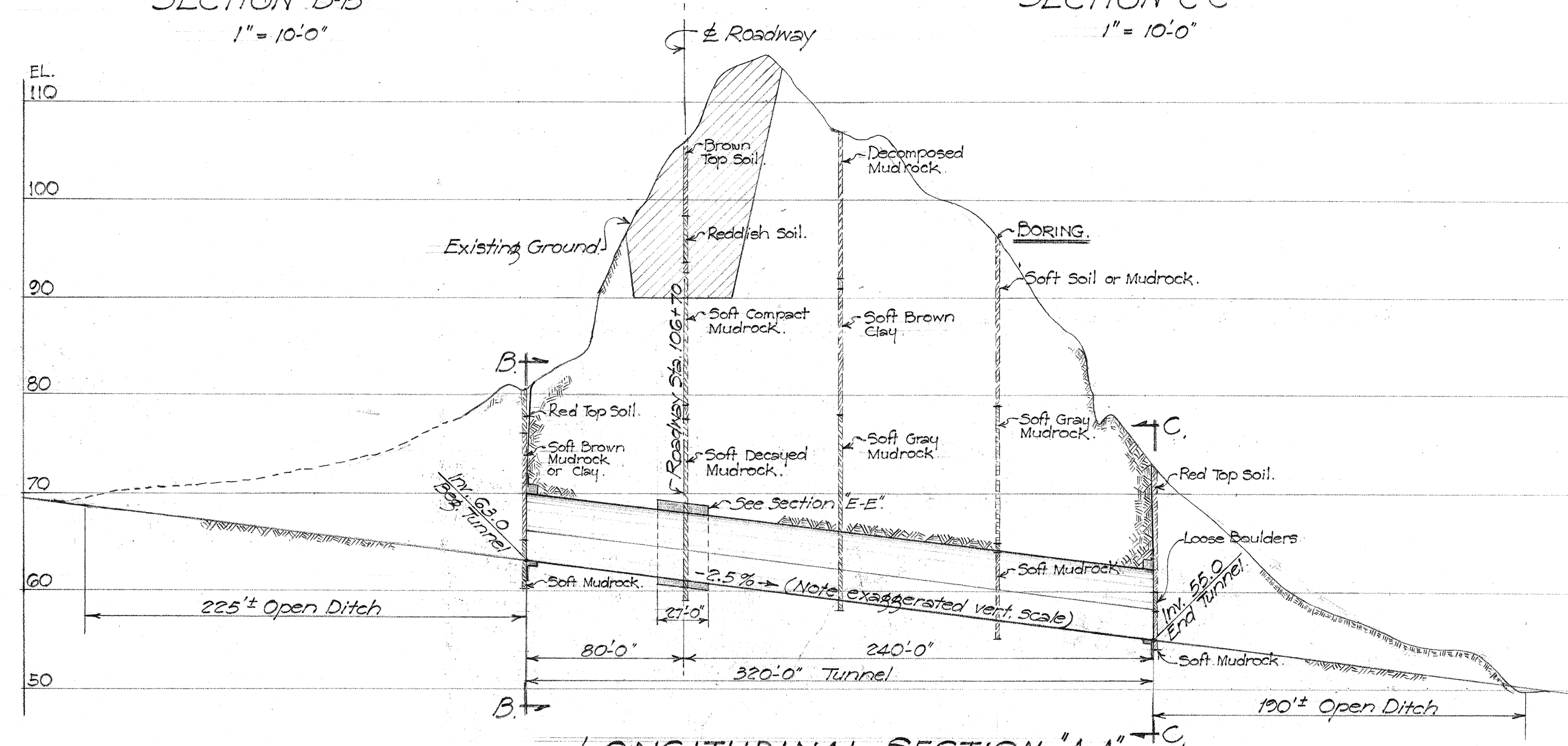


SECTION "B-B"  
1" = 10'-0"

LAYOUT PLAN  
1" = 50'-0"



SECTION "C-C"  
1" = 10'-0"



LONGITUDINAL SECTION "A-A"  
Scales: Hor. 1" = 50'-0"  
Vert. 1" = 10'-0"

ESTIMATED QUANTITIES

|                   |                     |
|-------------------|---------------------|
| Tunnel Exc.       | 728.0 c.y.          |
| Channel Exc.      | 2,150. c.y.         |
| Class 'A-1' Conc. | 40.0 c.y. 45.6 c.y. |
| Struct. Exc.      | 65.0 c.y. 72.0 c.y. |

TERRITORIAL HIGHWAY DEPARTMENT  
TERRITORY OF HAWAII

WATER TUNNEL

Sta. 106+70

KAUAI BELT RD.

F 31 (1)

Jan. 1953

SHEET No. / OF / SHEETS

5593.22

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DESIGNED BY       |      |
| TRACED BY         |      |
| QUANTITIES BY     |      |
| CHECKED BY        |      |
| NOTE BOOK         |      |
| NO.               |      |