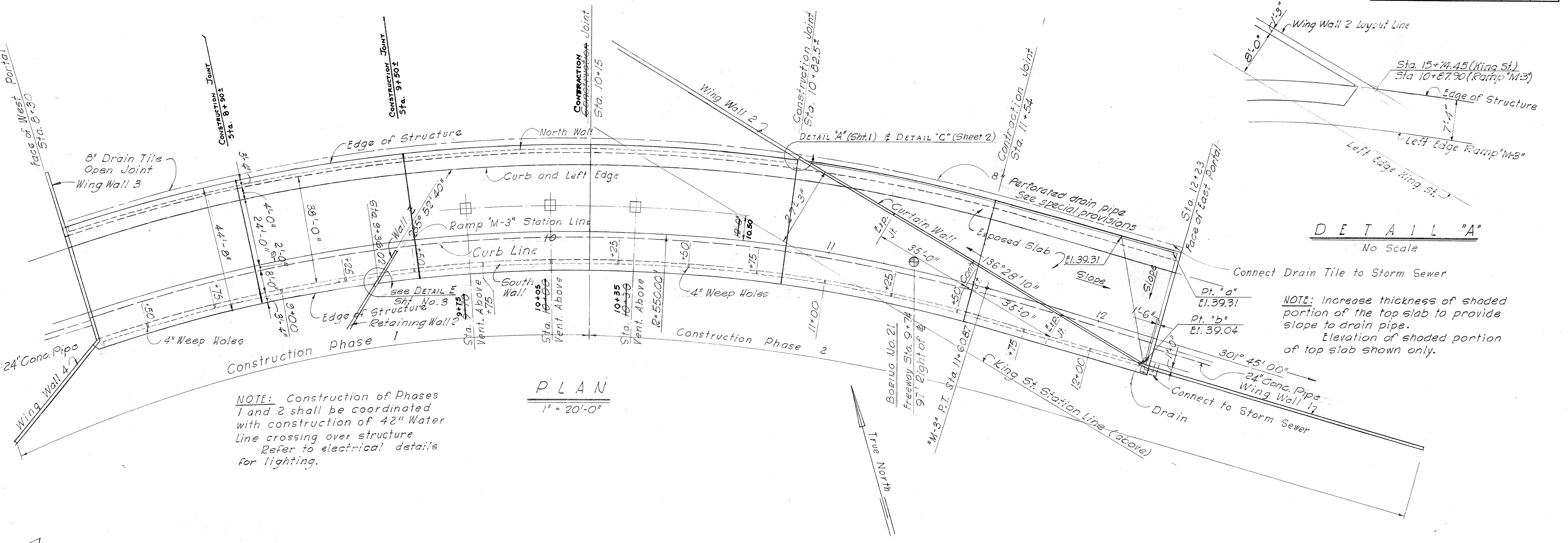


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	BU-065-1(1)	1960	38	115

TOP OF FOOTING - ELEVATIONS		
Stations	North Ftg.	South Ftg.
8+30 (Beg.)	27.47	25.86
8+50	27.14	25.53
8+75	26.71	25.10
9+00	26.28	24.67
9+25	25.85	24.24
9+50	25.42	23.81
9+75	24.99	23.38
10+00	24.56	22.95
10+15 (C.J.)	24.30	22.69
10+25	24.12	22.51
10+50	23.69	22.08
10+75	23.26	21.65
10+84 (C.J.)	23.10	21.49
11+00	22.80	21.19
11+25	22.30	20.69
11+50	21.77	20.16
11+54 (C.J.)	21.70	20.09
11+75	21.24	19.63
12+00	20.81	19.20
12+23 (End)	20.52	18.91

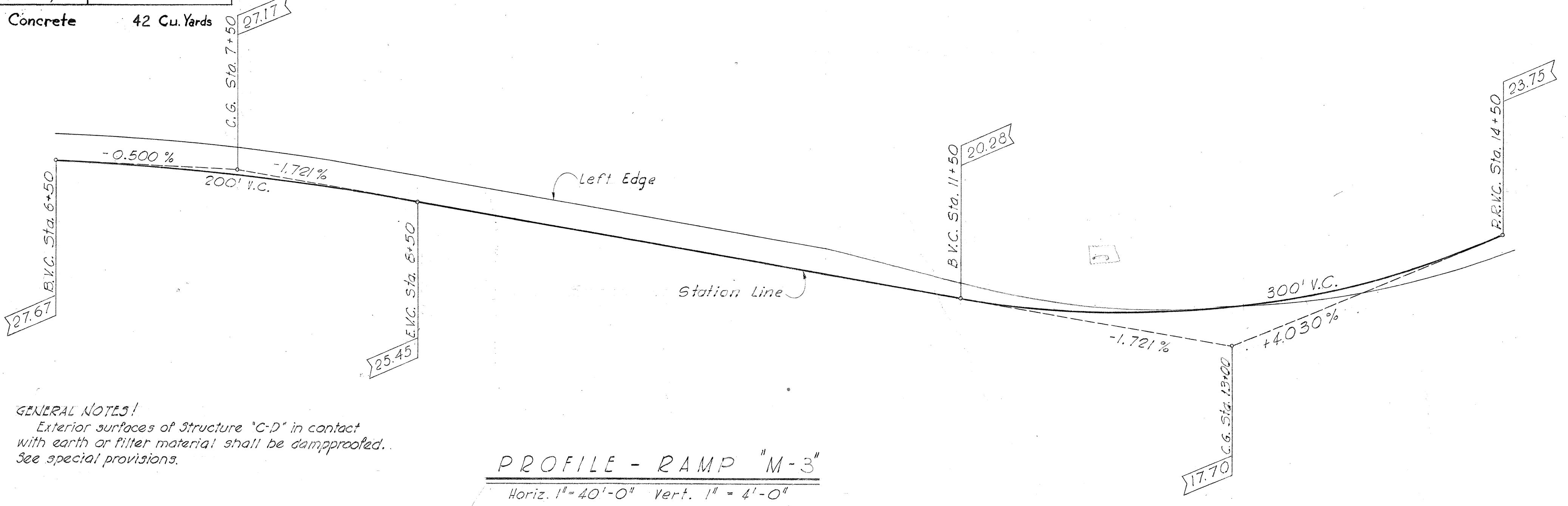
ESTIMATED QUANTITIES	
ITEM	QUANTITY
Class A-1 Concrete	Lump Sum (3836 cu. yds.)
Reinforcing Steel	Lump Sum (250,751 lbs.)
Structure Excavation	1,415 cu. Yards
Filter Material	1,237 cu. Yards
Filter Material For 8" Perforated Pipe	0.55 cu. Yards

Class C-1 Concrete 42 Cu. Yards



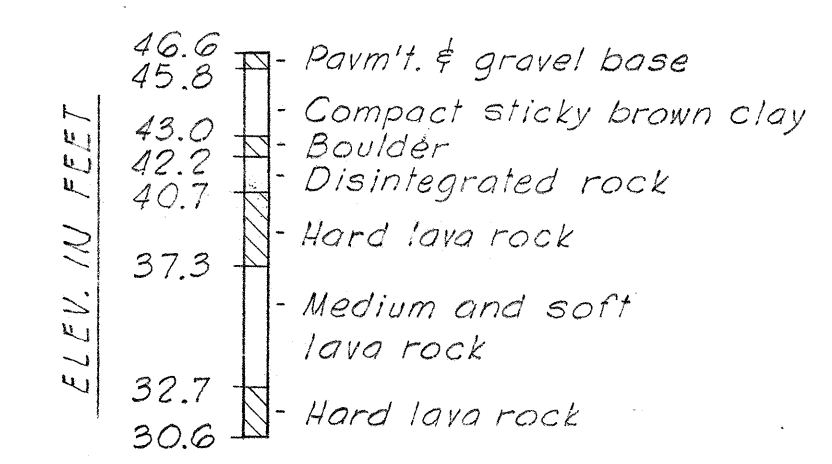
DETAIL "A"
No Scale

NOTE: Increase thickness of shaded portion of the top slab to provide slope to drain pipe.
Elevation of shaded portion of top slab shown only.

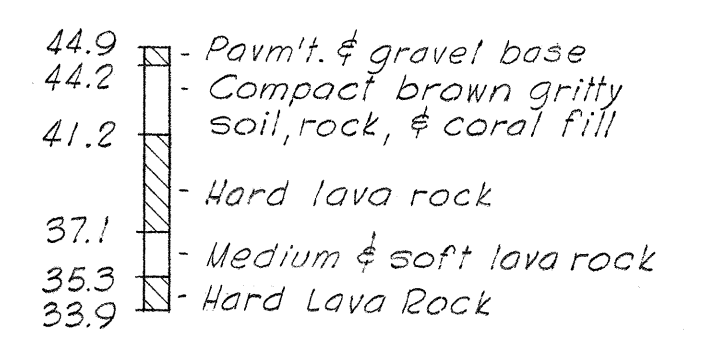


PROFILE - RAMP "M-3"
Horiz. 1" = 40'-0" Vert. 1" = 4'-0"

GENERAL NOTES:
Exterior surfaces of Structure "C-D" in contact with earth or filter material shall be dampproofed. See special provisions.



BORING NO. 21



BORING NO. 25

See sht. No. 8161.13 for location.

REFERENCE DRAWINGS

- DETAIL ROADWAY PLAN.
- STANDARD DETAILS.
- TYPICAL DETAILS AND GENERAL STRUCTURAL NOTES.
- RETAINING WALL DETAILS.



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STATE OF HAWAII

STRUCTURE "C-D"
PLAN AND PROFILE

MIDDLE STREET

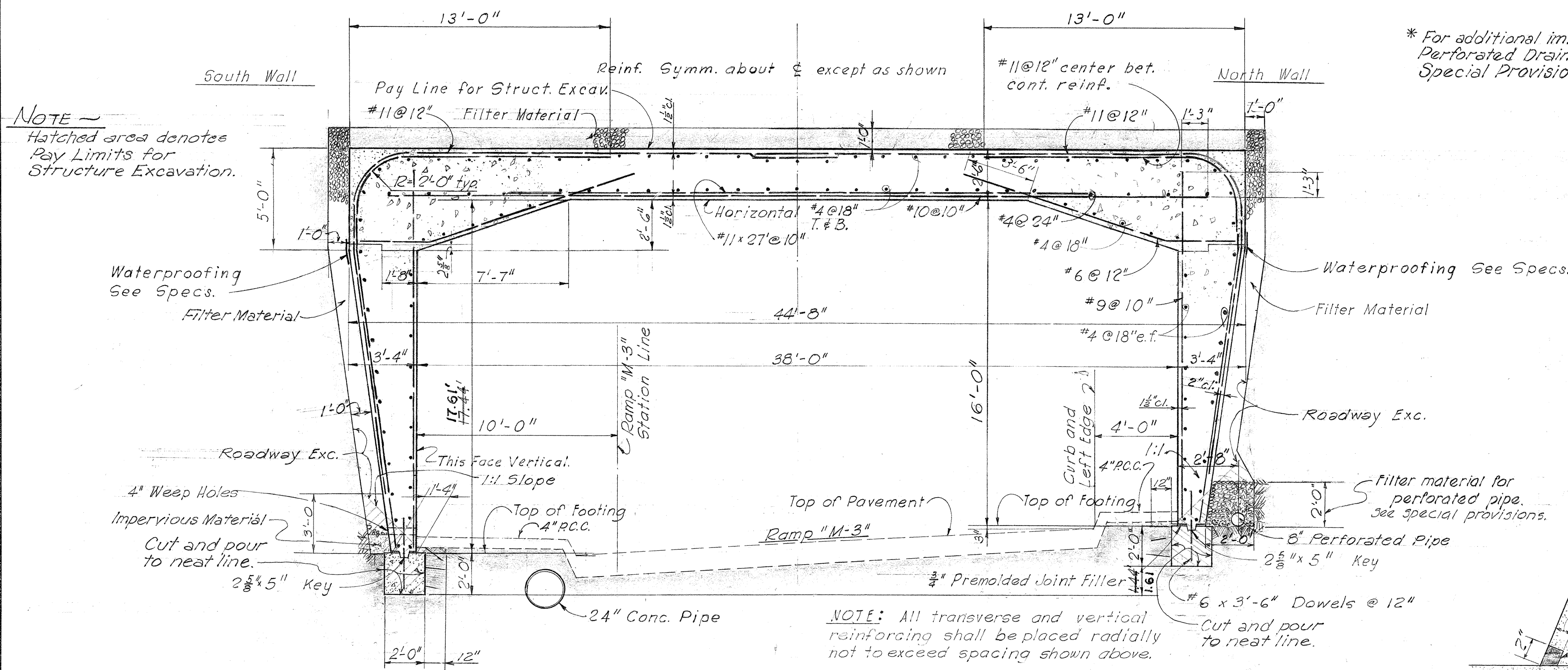
BU-065-1(1)
UNIT - 3

SHEET No. 1 OF 4 SHEETS

\$161.38

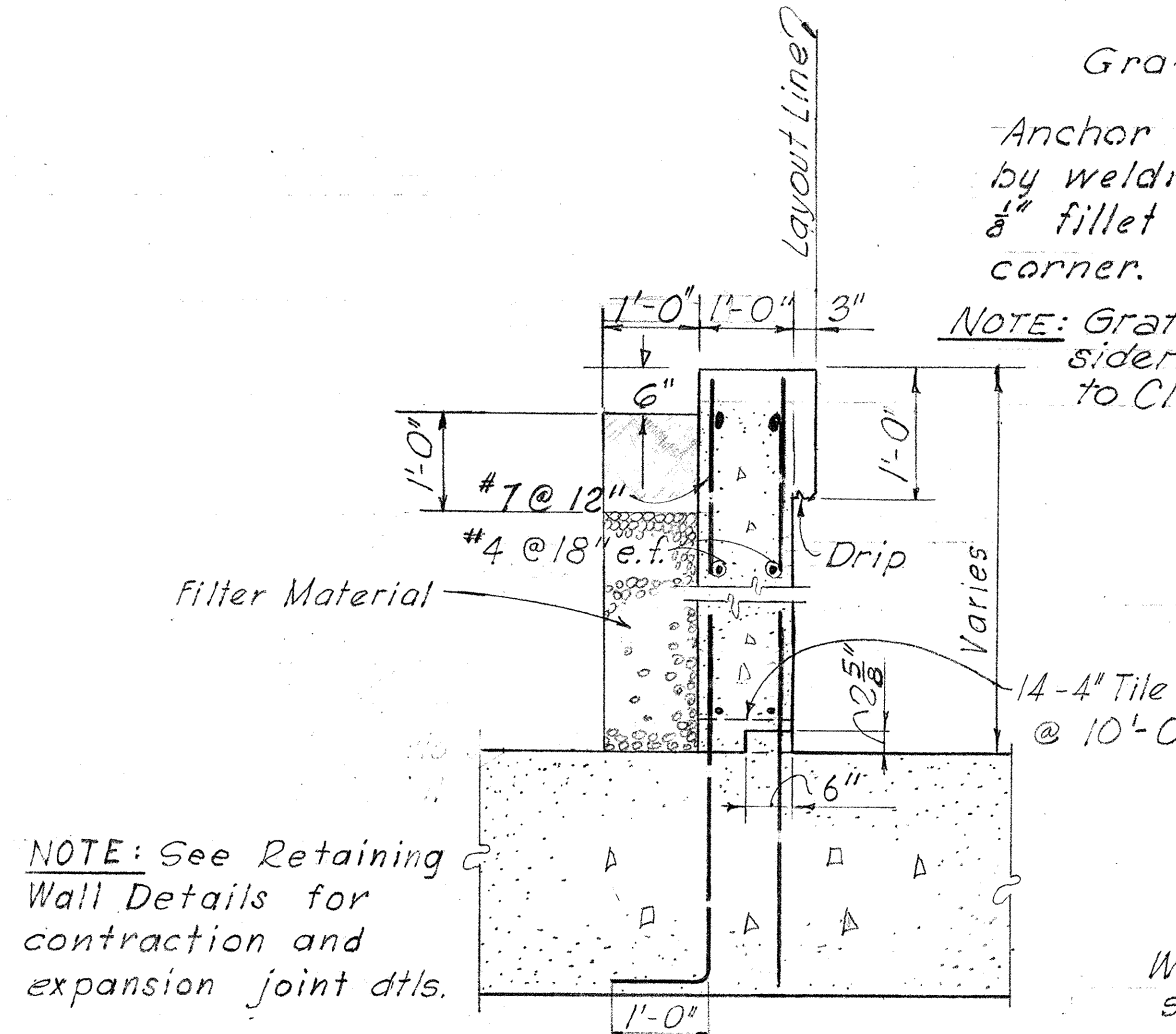
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	BU-065-1	1960	50	115

June 14, 1960
Aug. 2, 1960

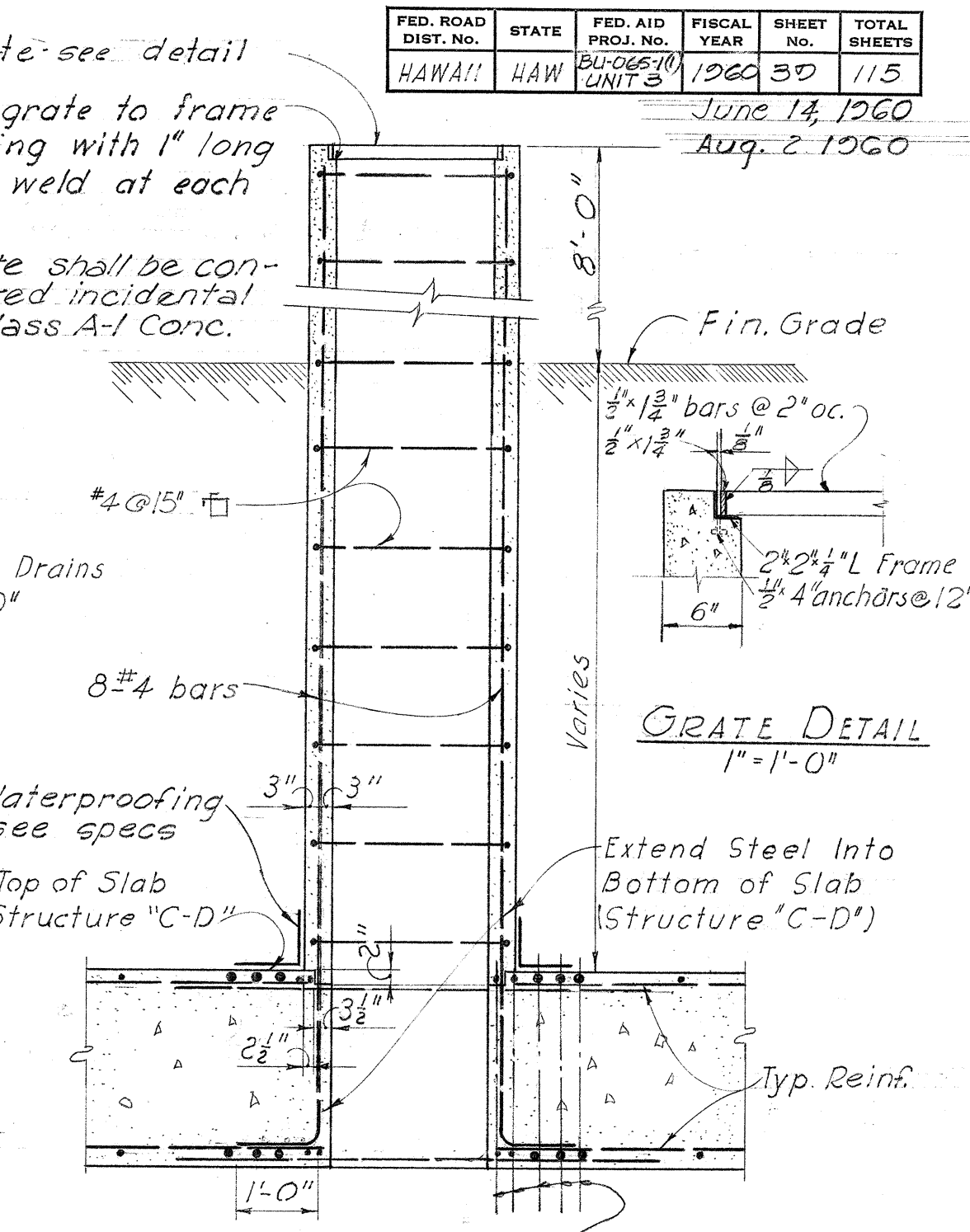


TRANSVERSE SECTION
WEST PORTAL TO STA. 10+84.5
(Looking against Stationing)

* For additional information on Perforated Drain Pipe see Special Provisions.



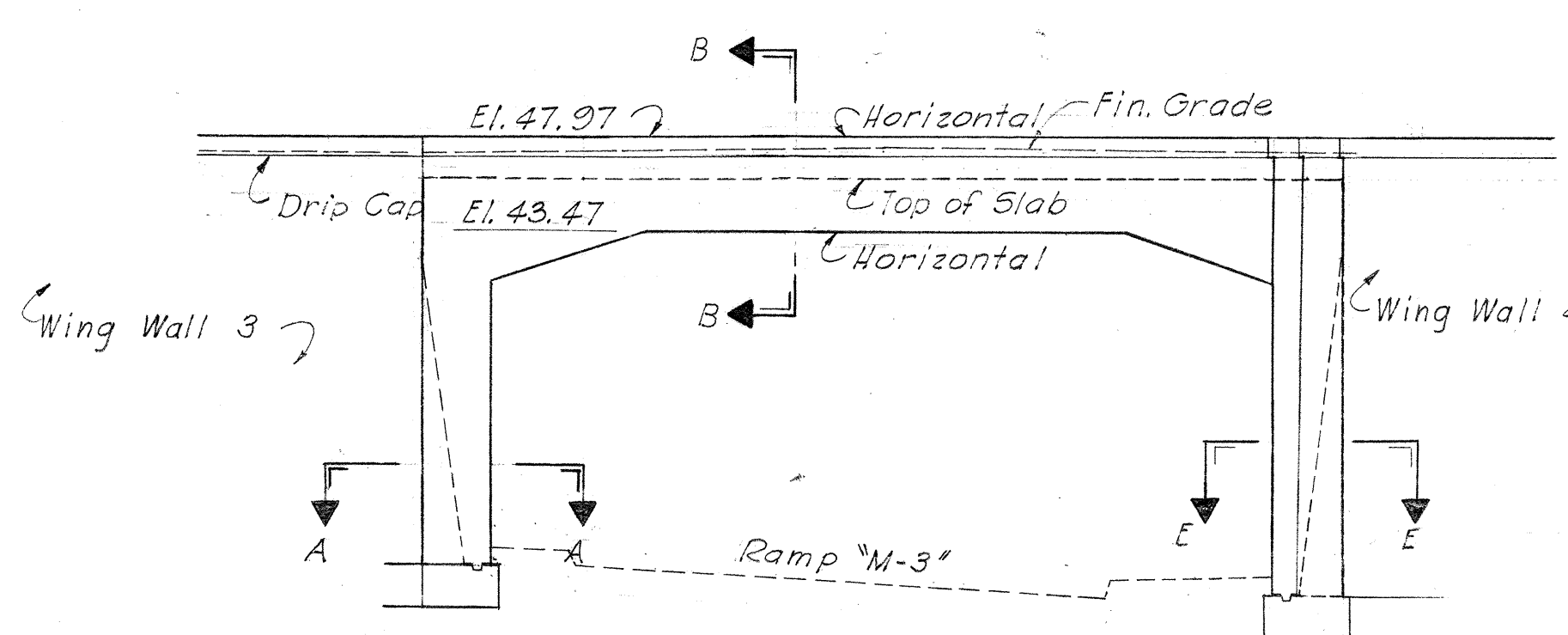
CURTAIN WALL DETAIL



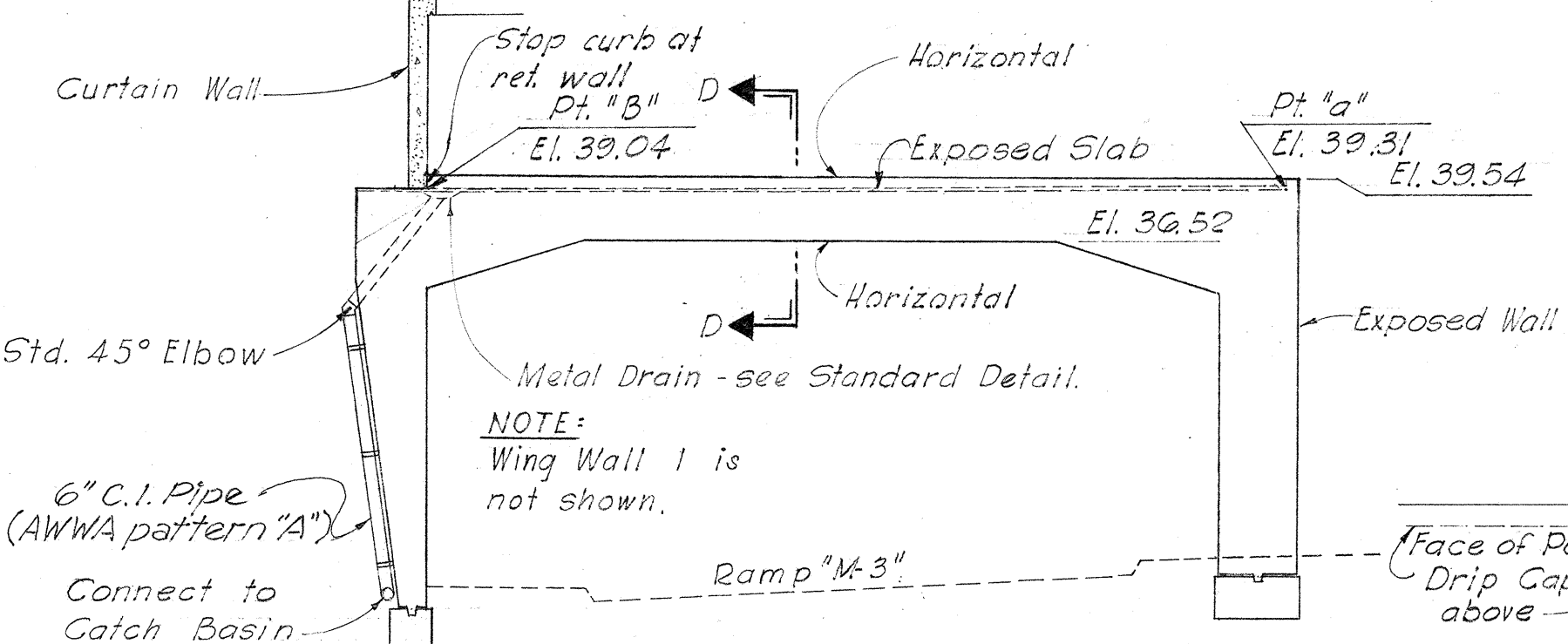
GRATE DETAIL

Flashing Compound (See Special Provision)

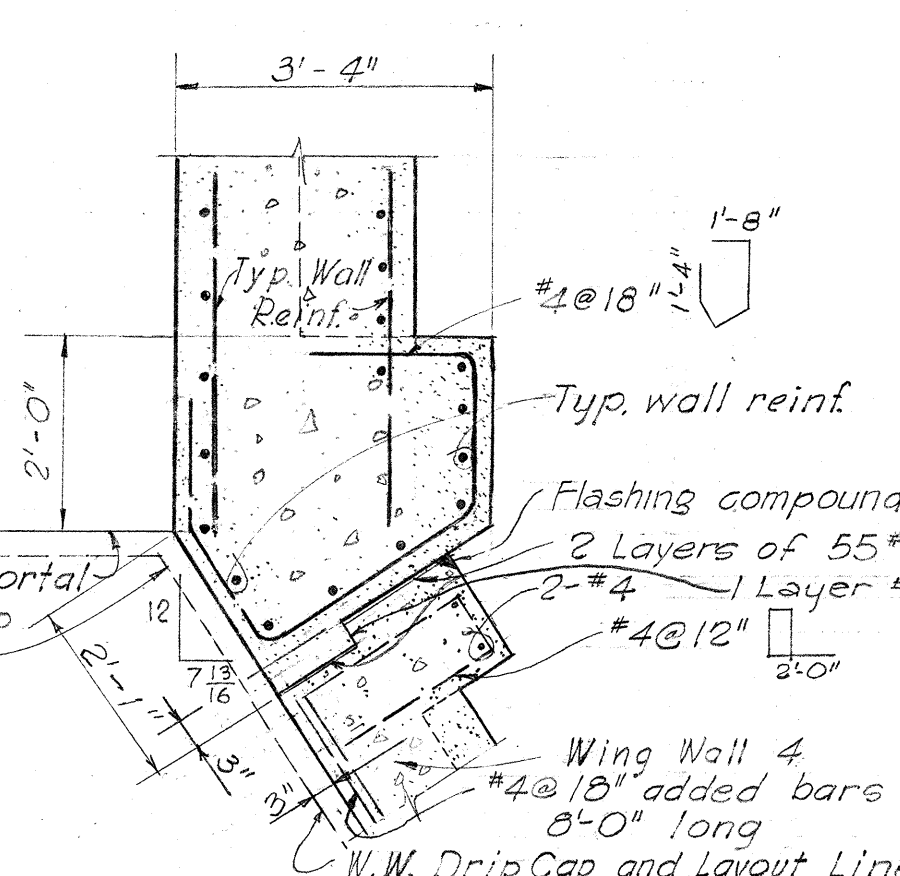
DETAIL "X" TYPICAL CONST. JOINT FOR SLAB & WALL
Scale 1/2" = 1'-0"
For contraction & expansion joints, see Ret. Wall Details



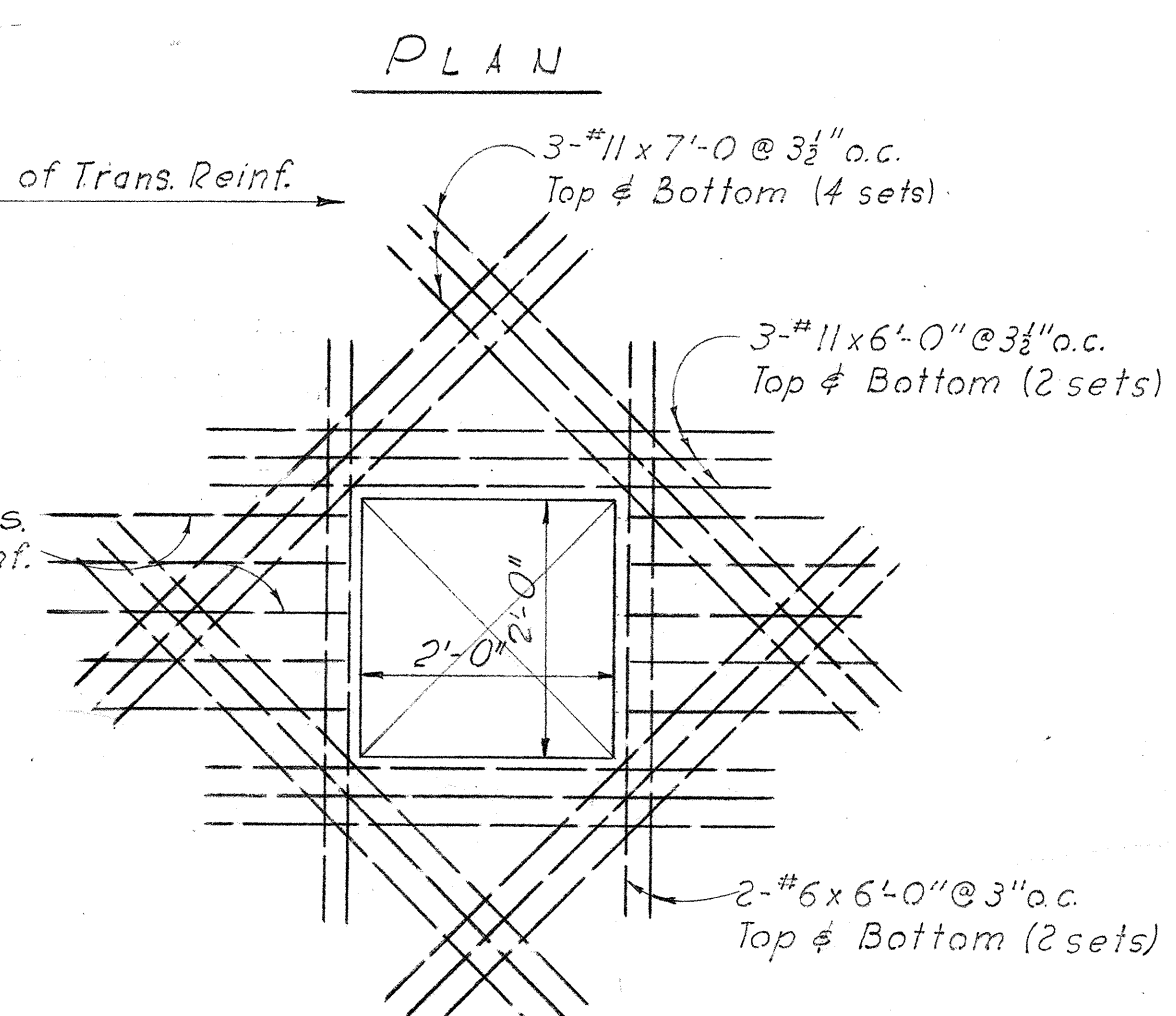
WEST PORTAL ELEVATION



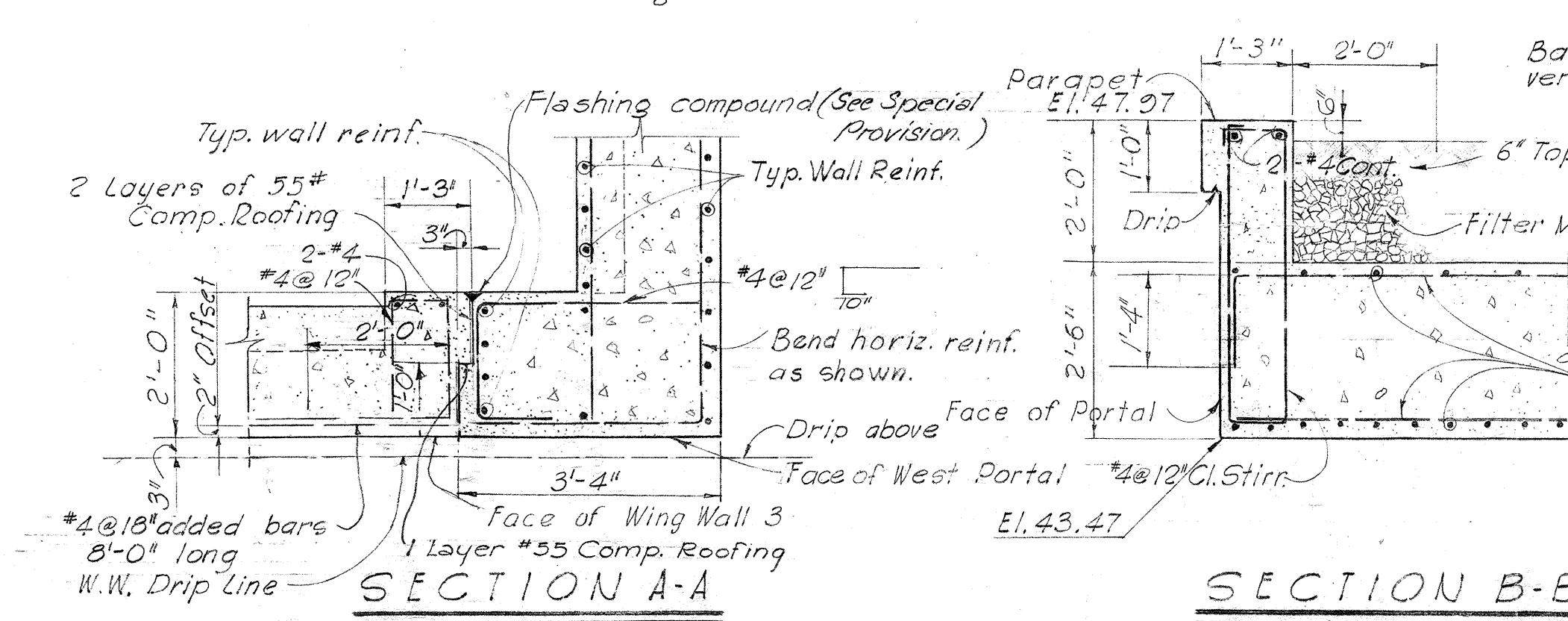
EAST PORTAL ELEVATION



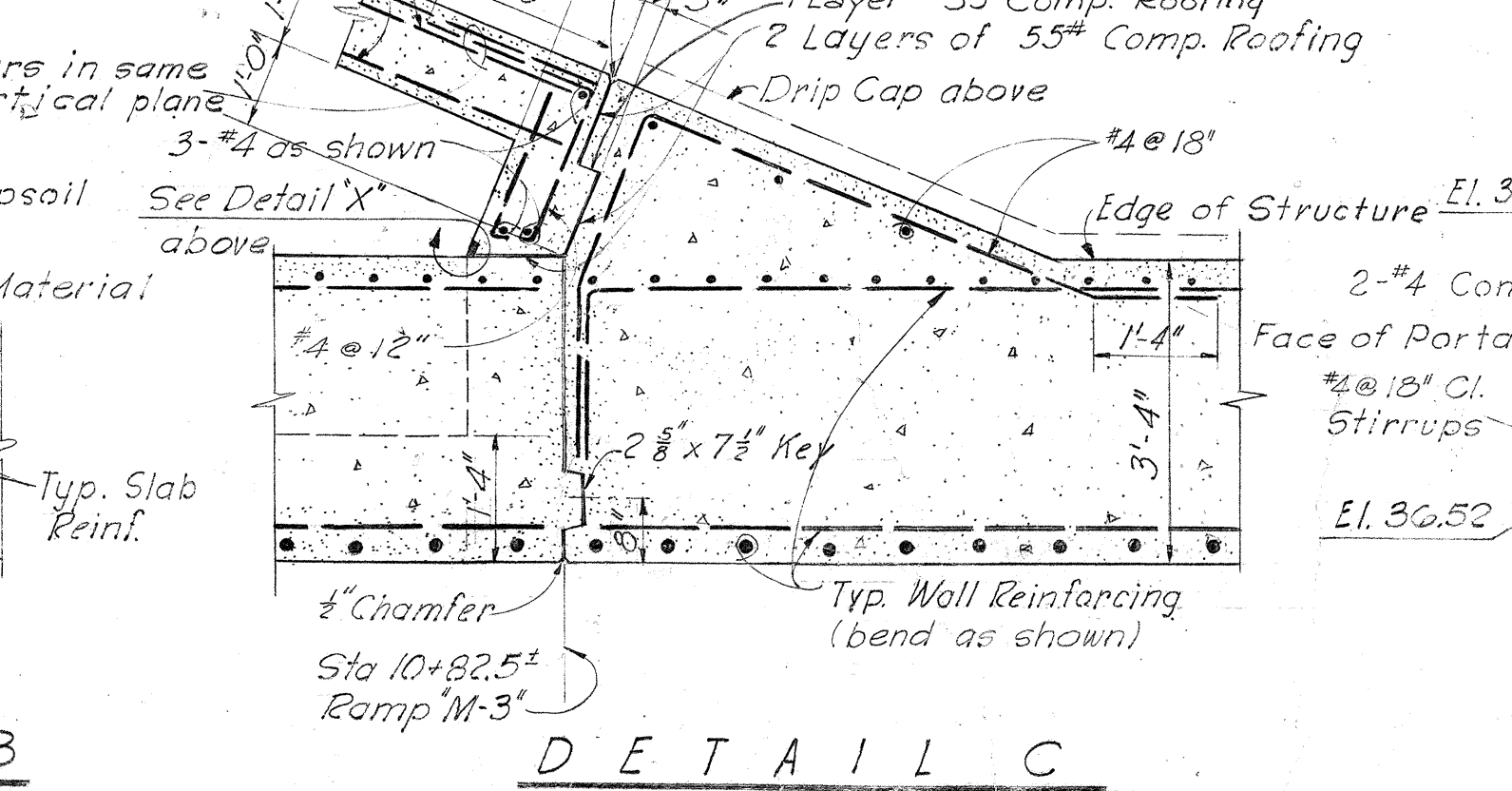
SECTION E-E



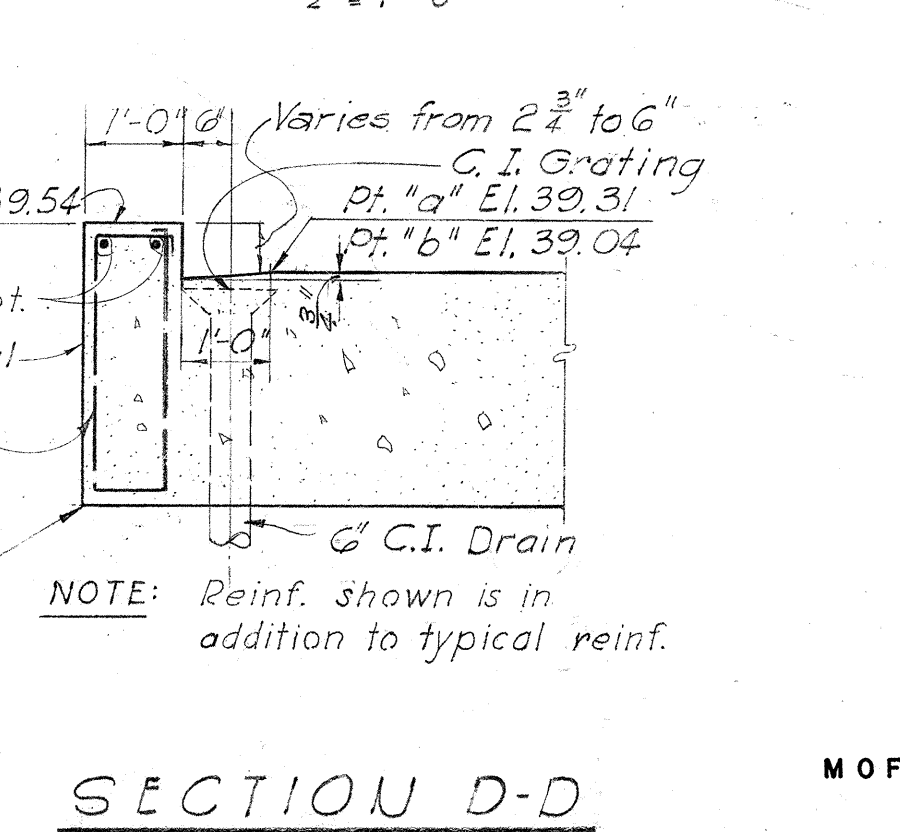
OPENING IN SLAB VENTILATING DETAILS



SECTION A-A



SECTION B-B



SECTION D-D



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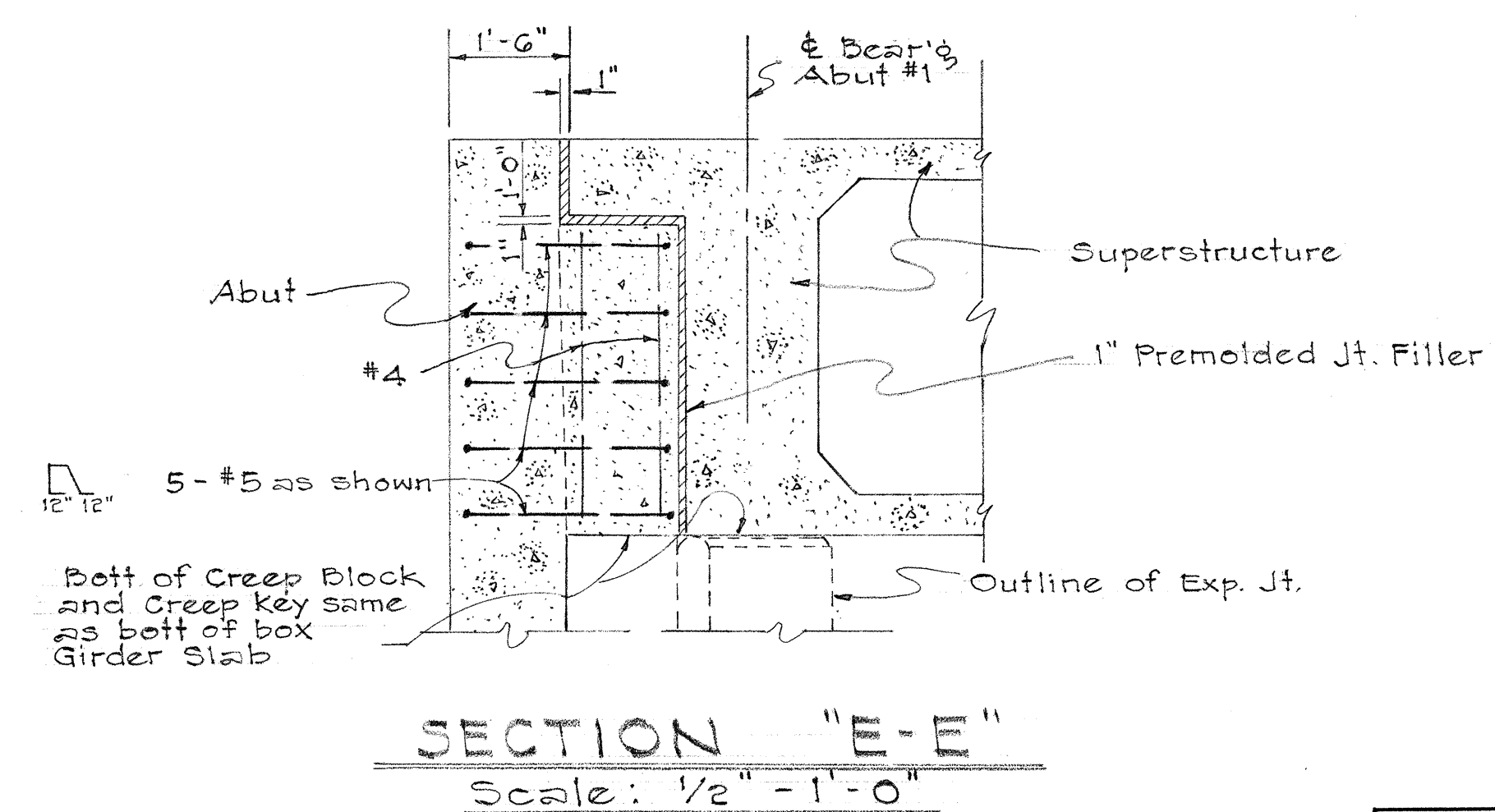
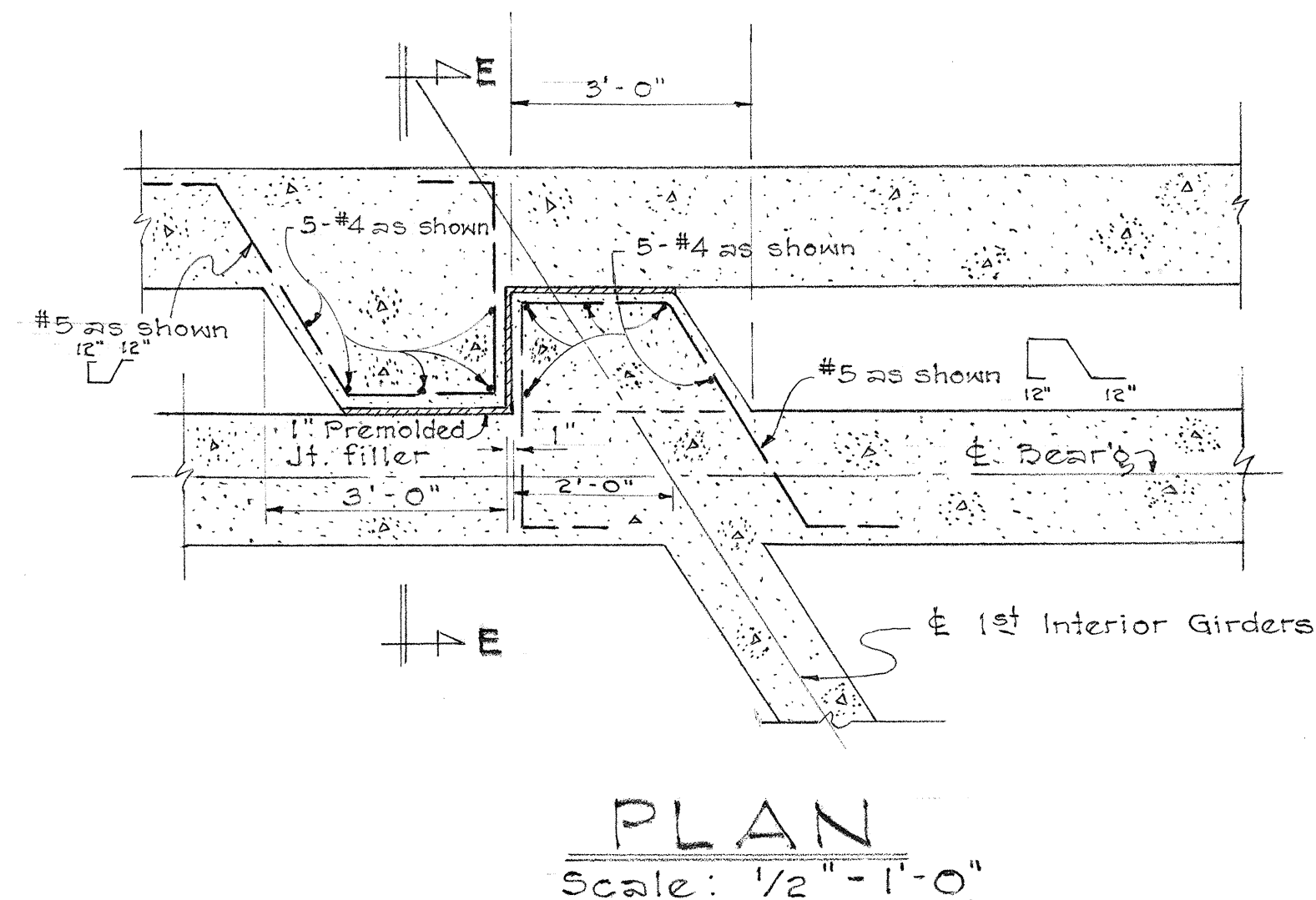
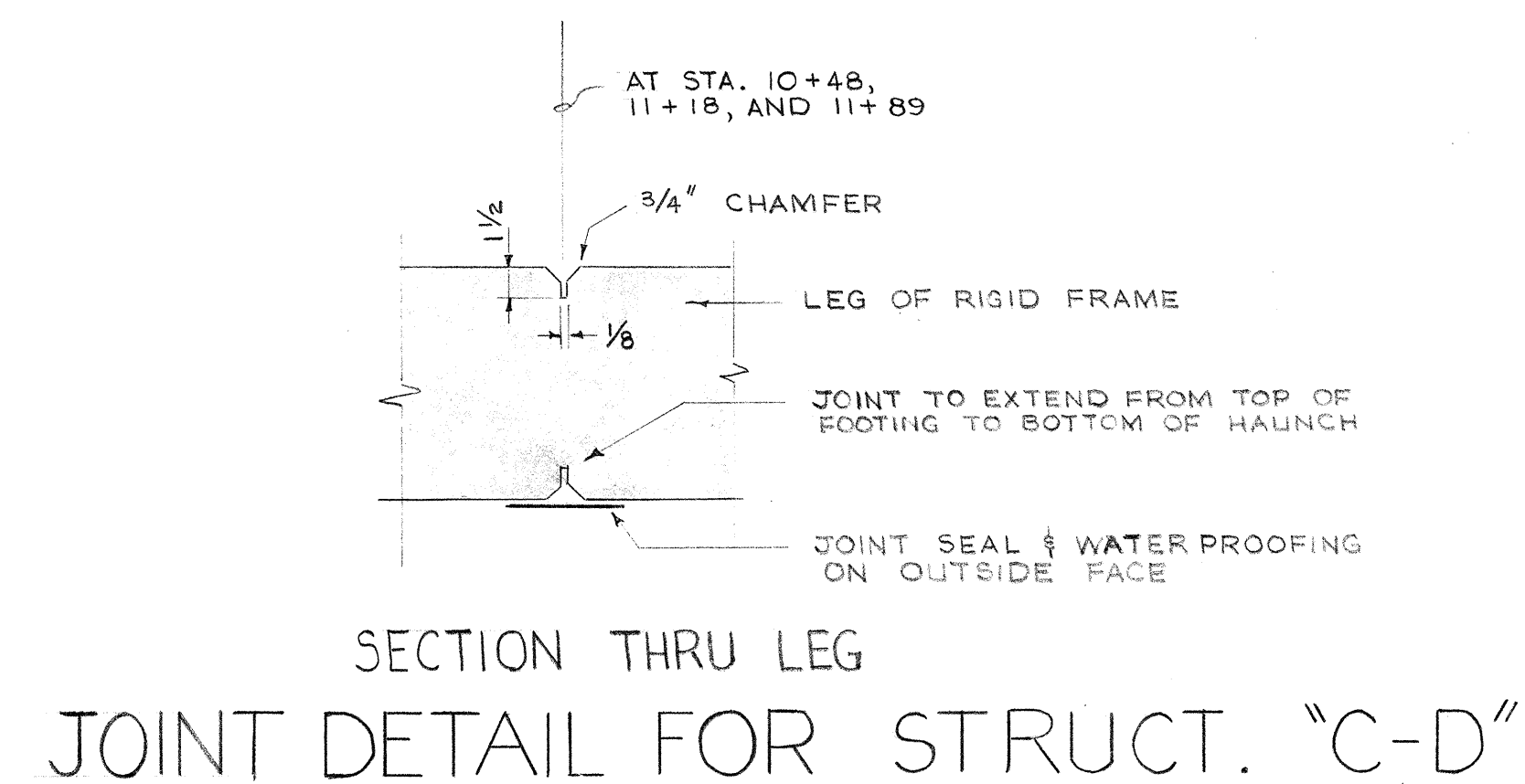
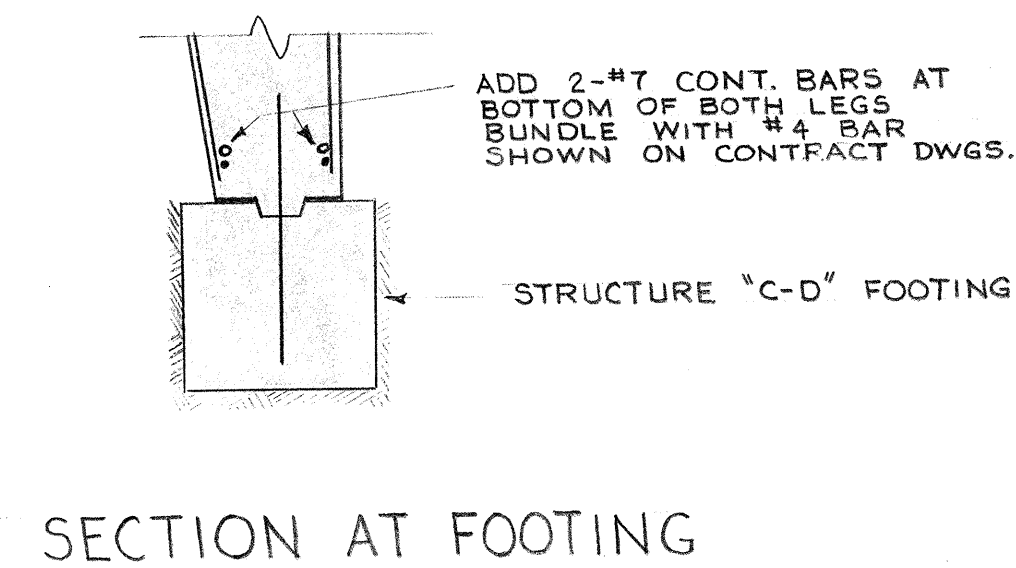
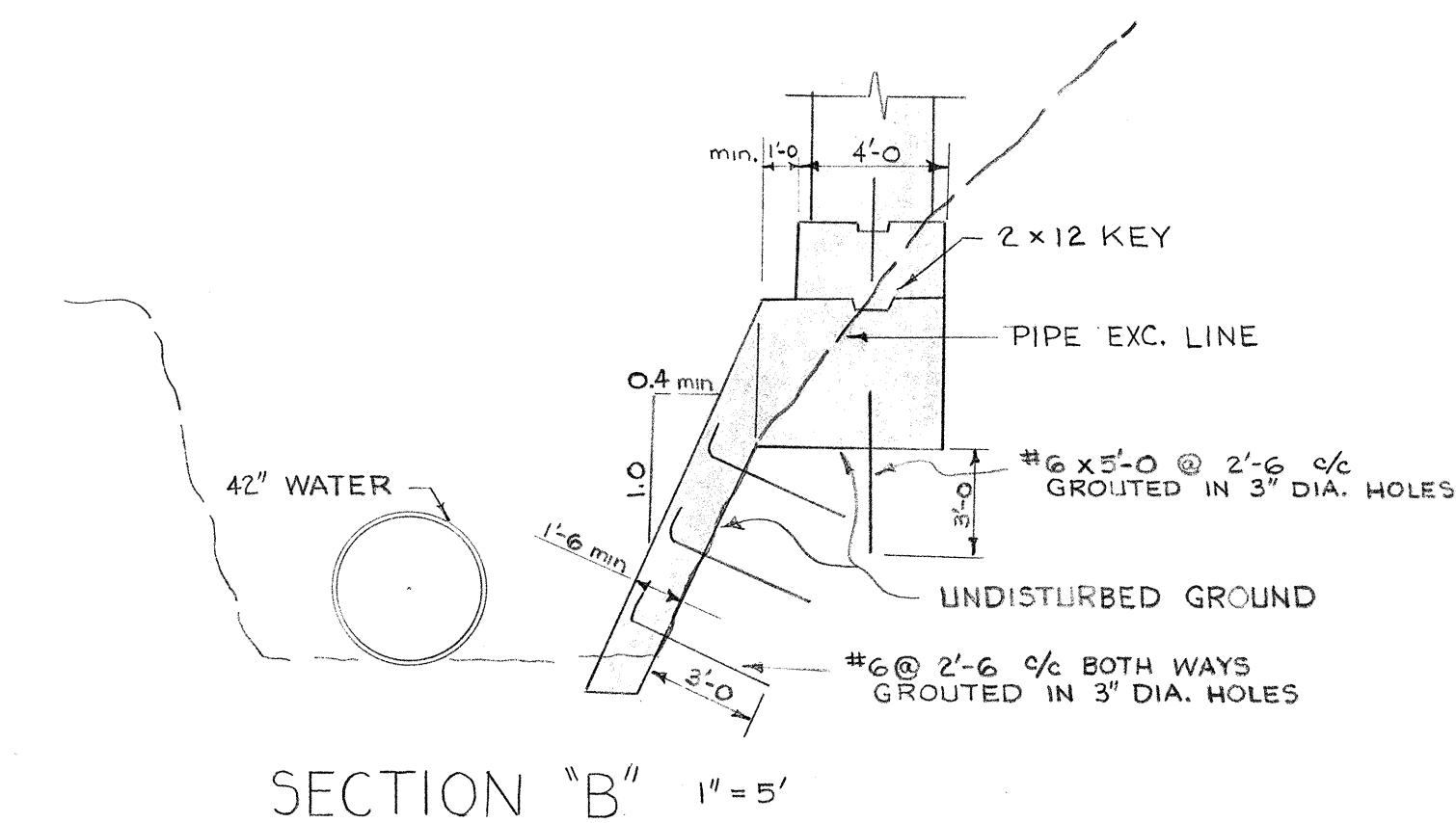
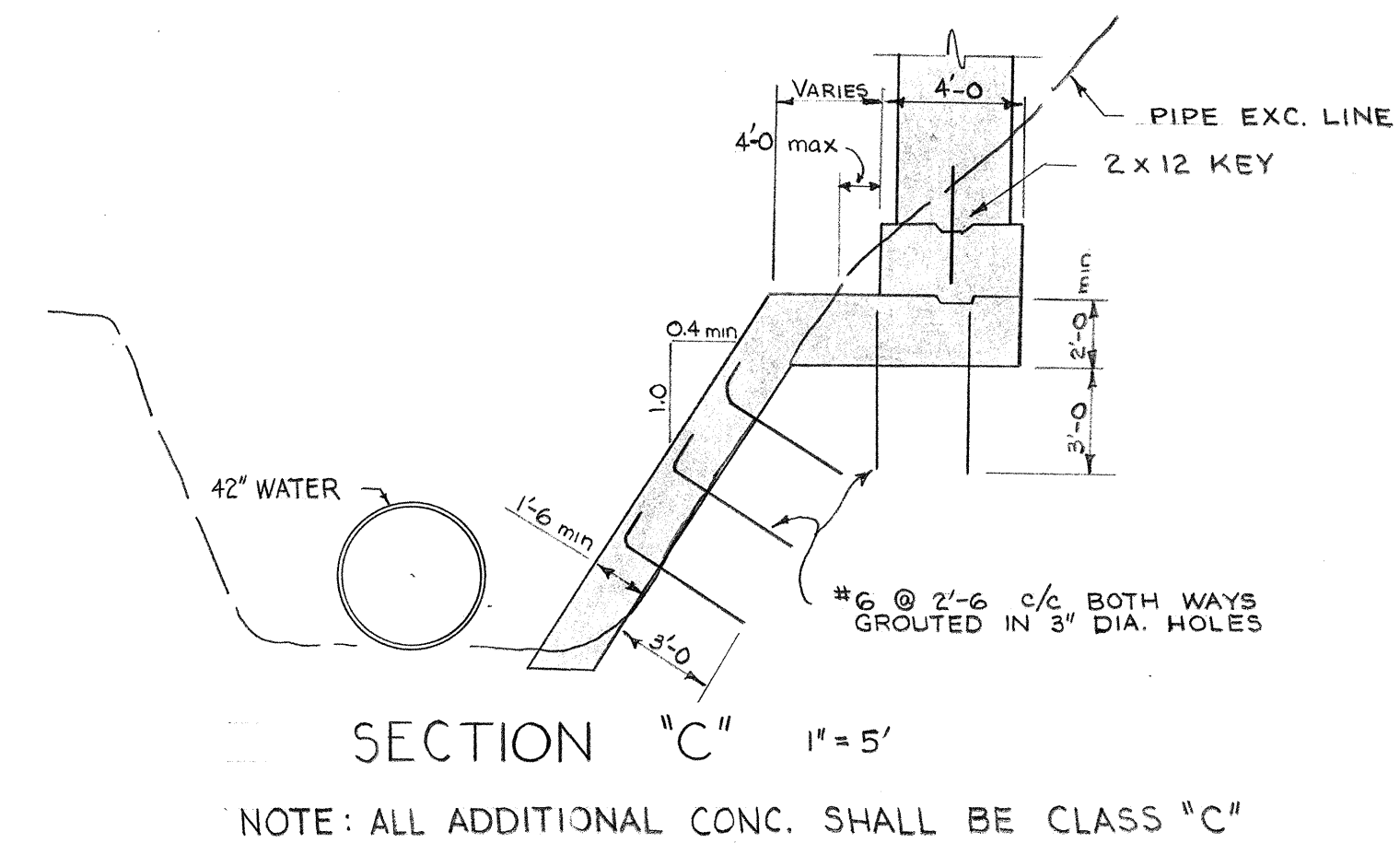
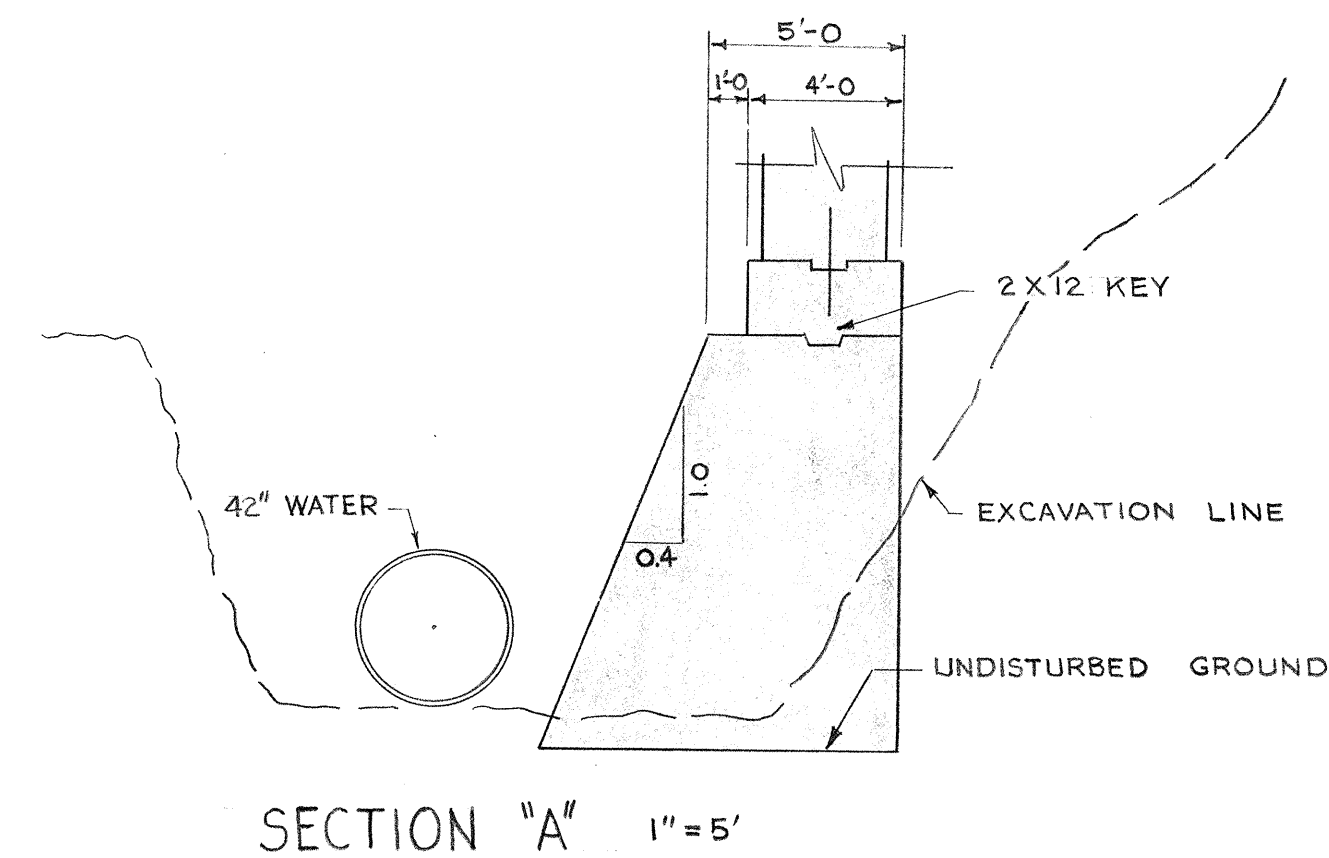
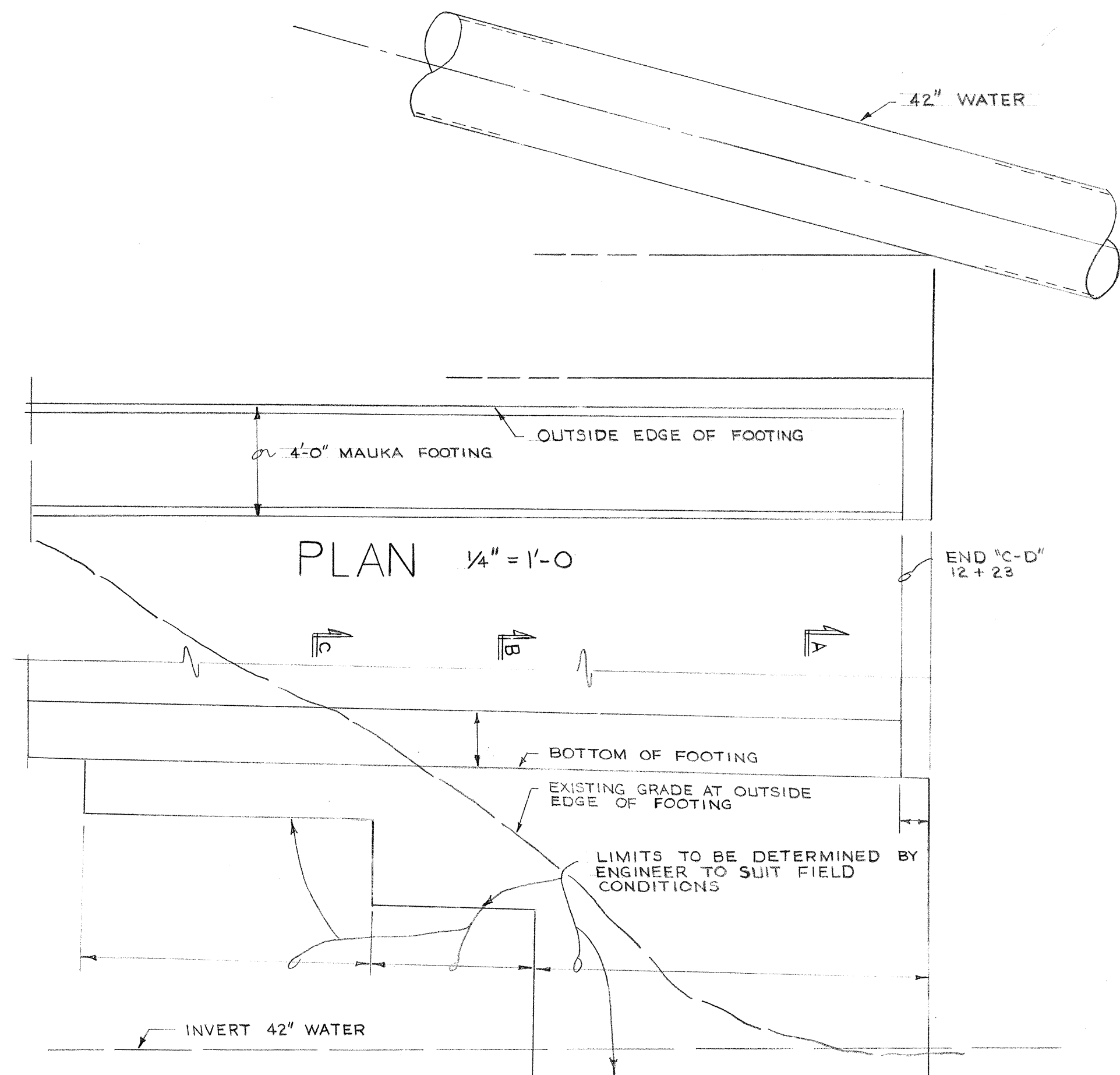
HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII
STRUCTURE "C-D"
SECTIONS I
MIDDLE STREET
BU-065-1 (1)
UNIT - 3

SHEET No. 2 OF 4 SHEETS

8161.39

58

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.				



CREEP BLOCK DETAIL KALIHI STREAM BRIDGE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

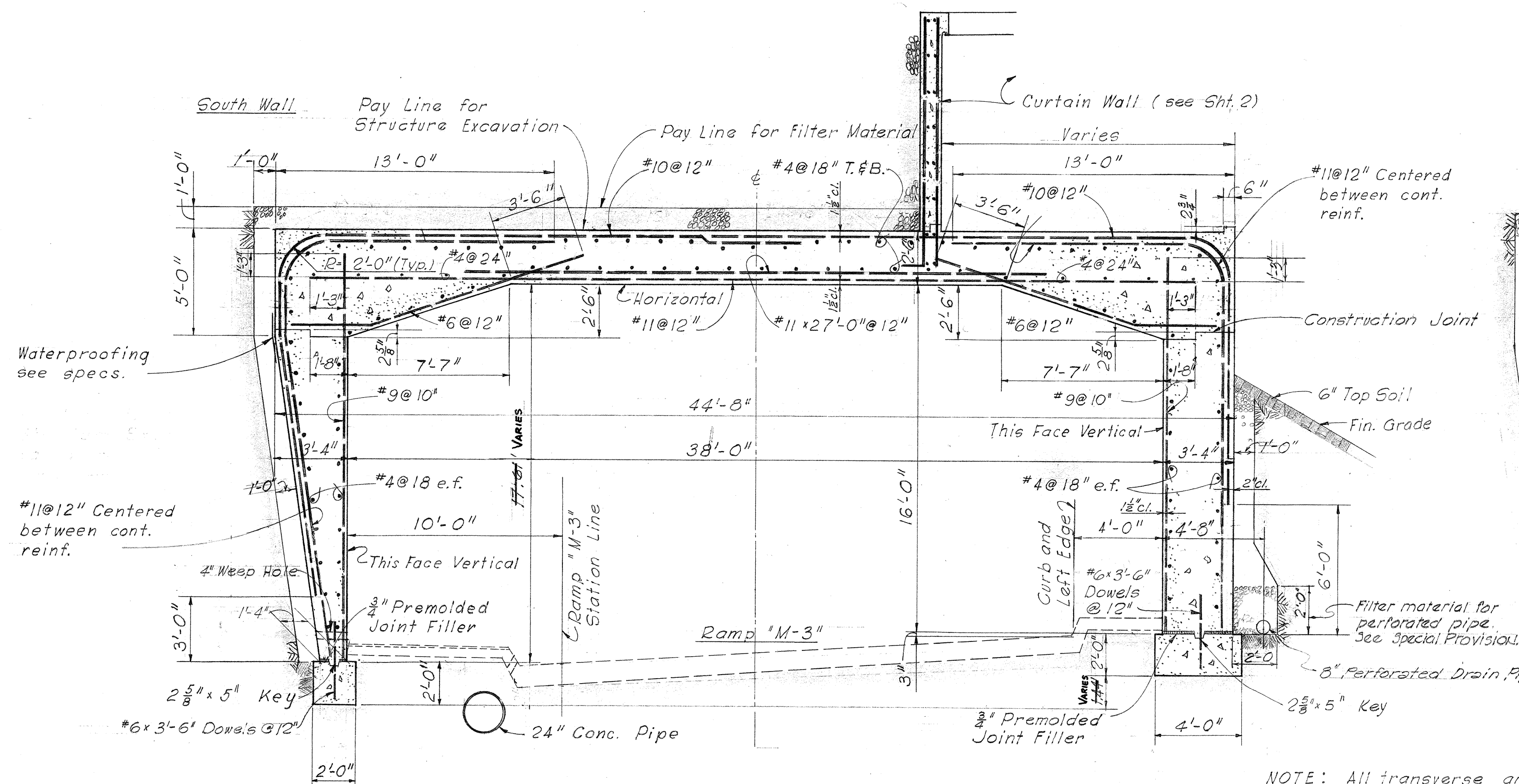
REVISIONS FOR
STRUCTURE "C-D"
AND
KALIHI STREAM BRIDGE
LUNALILO FREEWAY
MIDDLE STREET

BU-072-1(2)
UNIT-4
BU-065-1(1)
UNIT-3

SHEET No. 2A OF 4 SHEETS

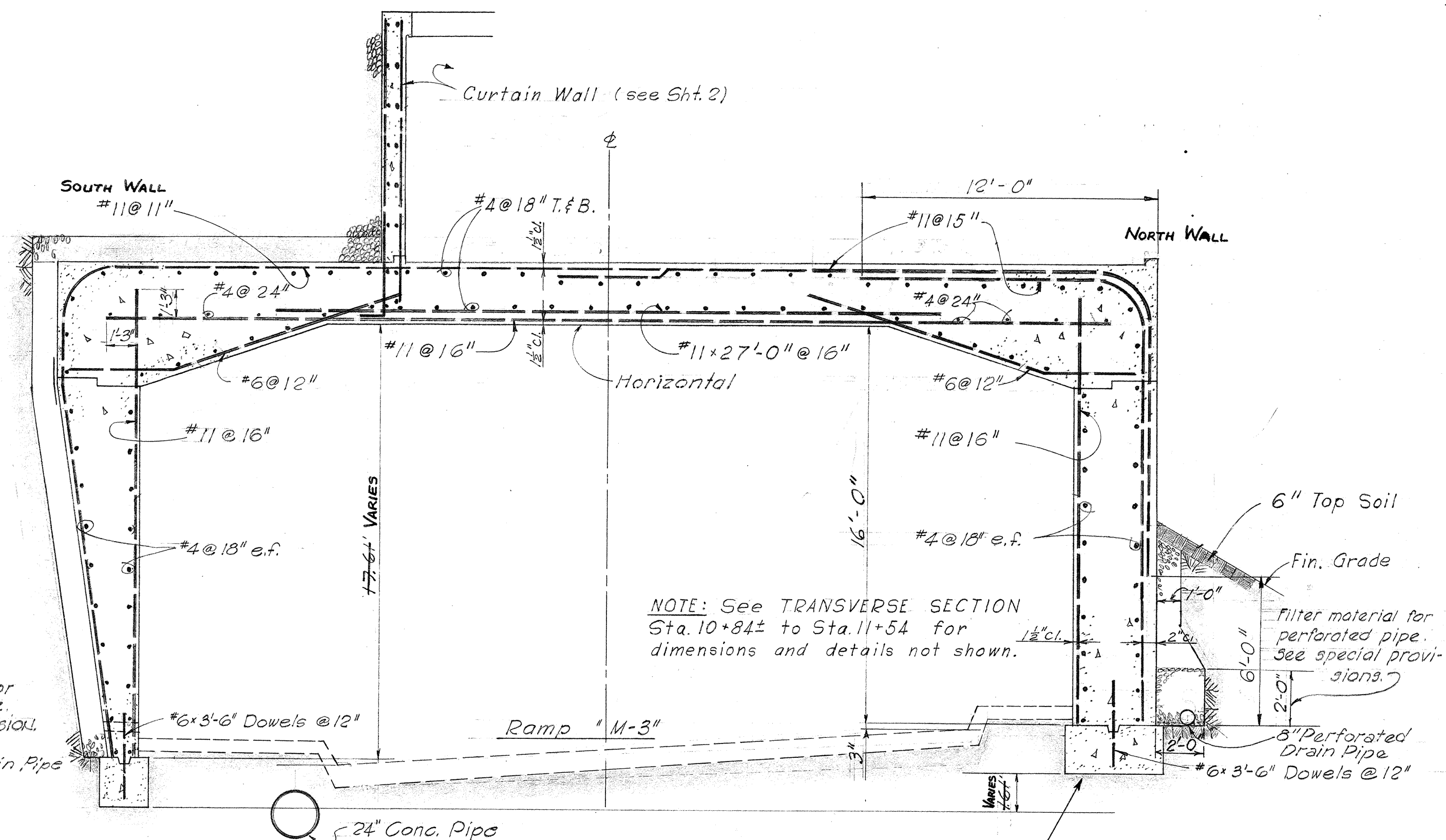
8174.39A 8161.39A

58A



TRANSVERSE SECTION
STA. 10+84± TO STA. 11+54.00
1/4\" = 1'-0"

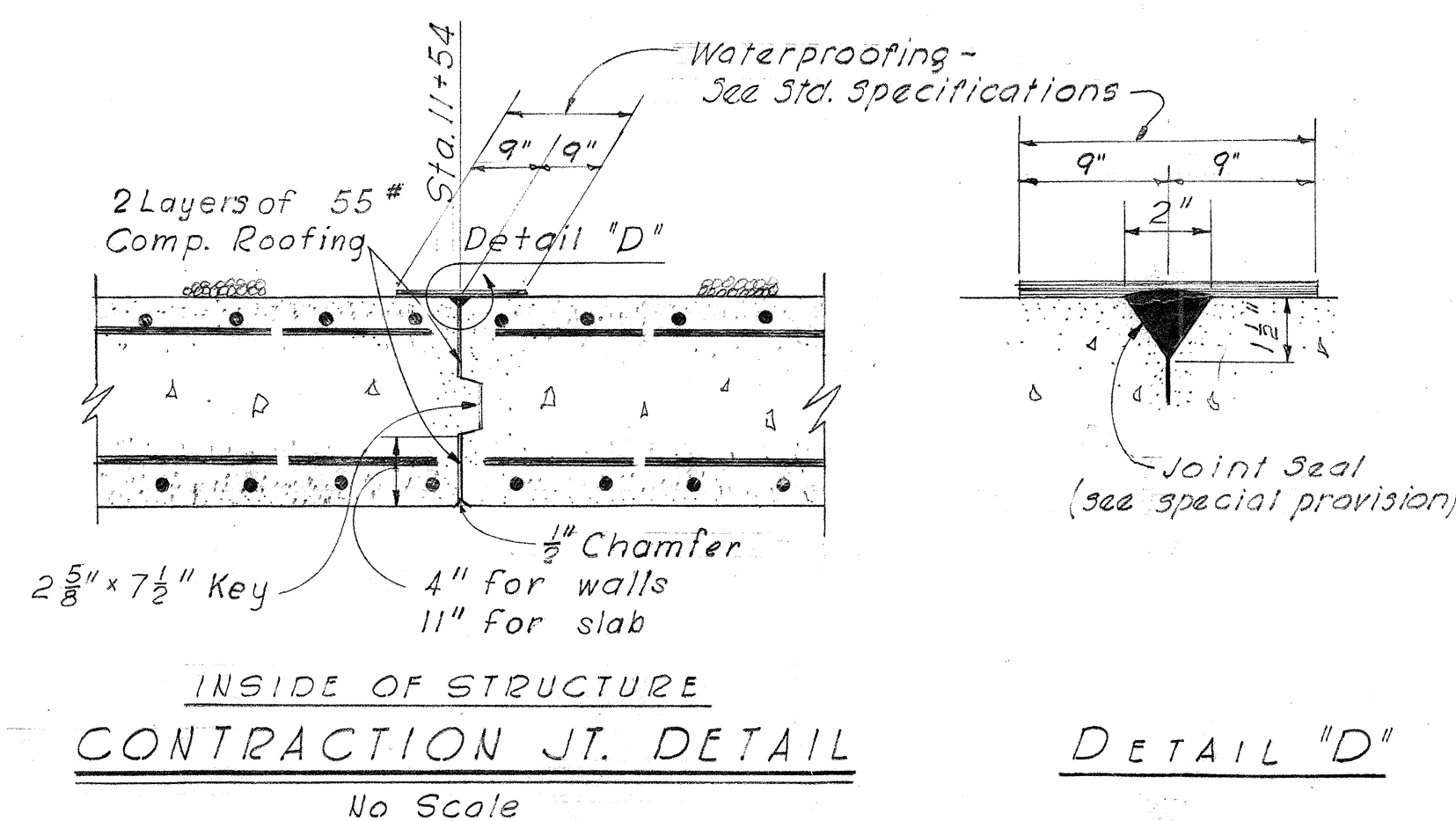
NOTE: All transverse and vertical reinforcing shall be placed radially not to exceed spacing shown above in transverse sections.



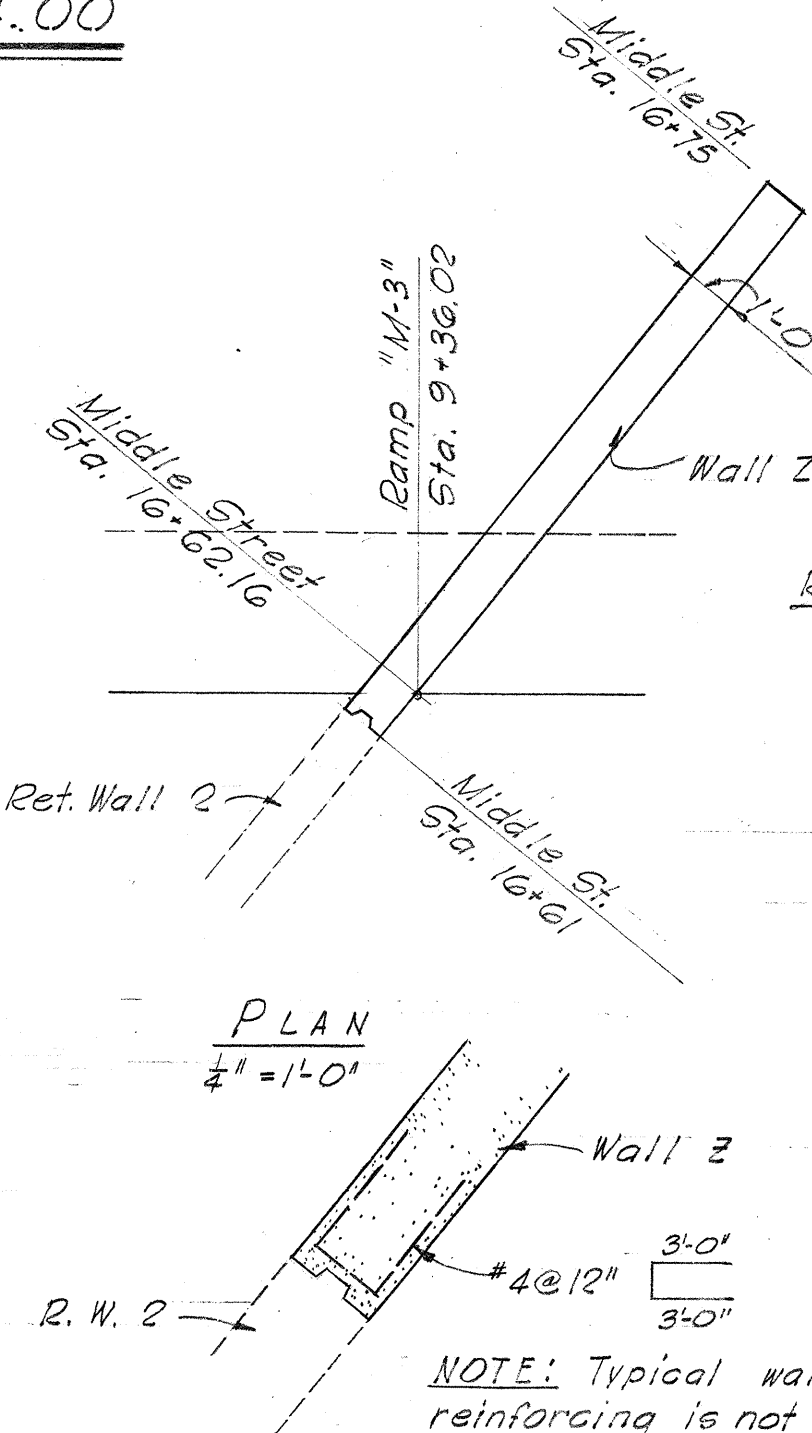
TRANSVERSE SECTION
STA. 11+54.00 FROM EAST PORTAL
1/4\" = 1'-0"

NOTE: For limits of Struct. Exc., see Sht. 2 of 4

FOOTING AT EAST PORTAL REVISED SEE SHEET 2A

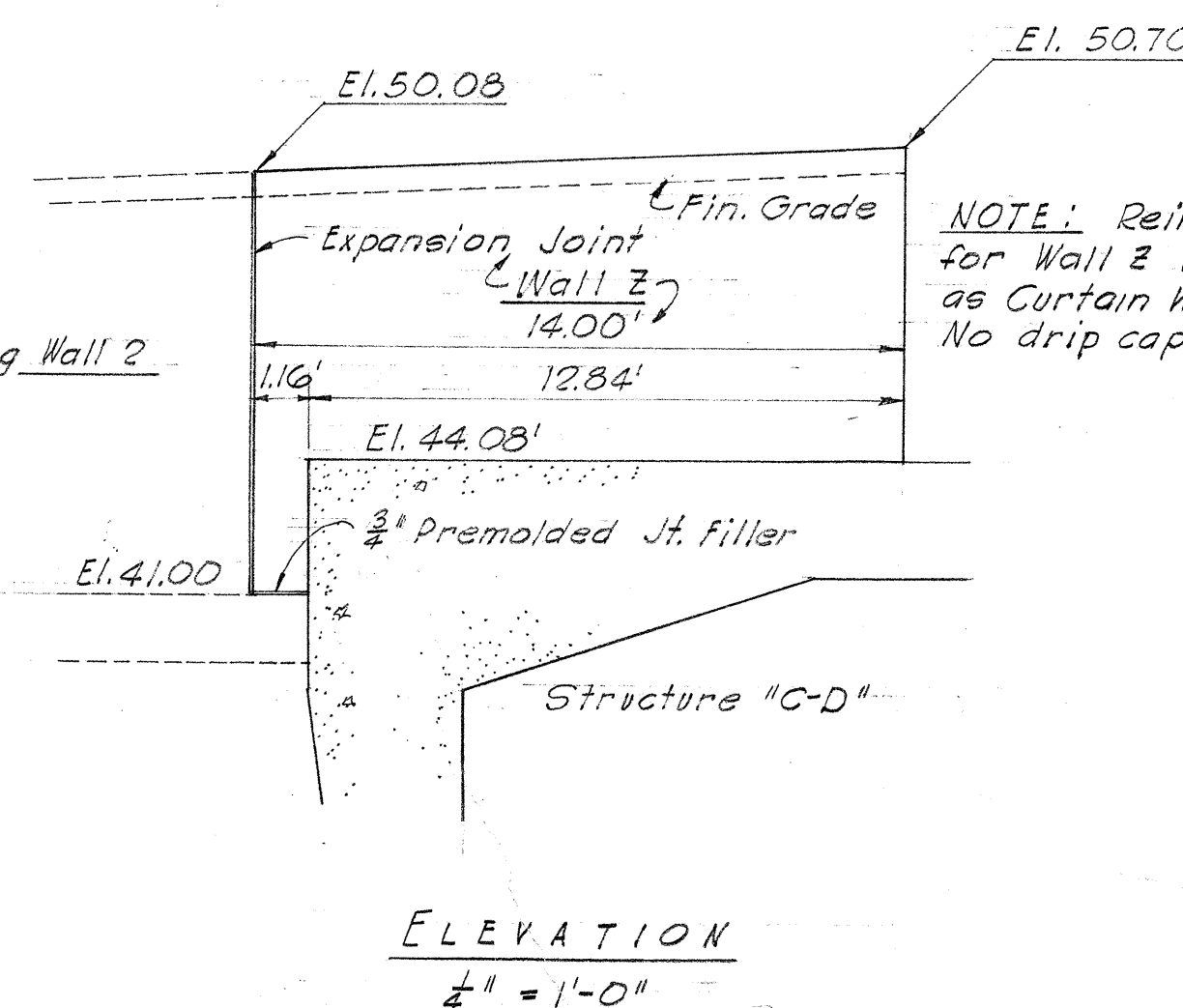


DETAIL "D"

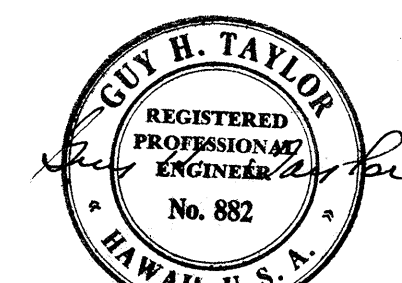


SECTION
1/2\" = 1'-0"

DETAIL E



NOTE: Reinforcing for Wall Z is same as Curtain Wall (Sht. 2). No drip cap on Wall Z.



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STATE OF HAWAII

STRUCTURE "C-D"
SECTIONS II

MIDDLE STREET

BU-065-1 (1)
UNIT - 3

SHEET NO. 3 OF 4 SHEETS

\$161.40

