

Rev. Δ Add 4' to Bridge Stas. and
change grades. 10/18/62

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F-090-1(7)	1962	103	127

GENERAL NOTES:

Materials

All concrete Class A-1 except for Prestressed Girders. See Special Prov. Admixture shall be added to all concrete. See Special Provisions.

Neoprene pads are incidental to prestressed girder and not paid for separately.

Construction Methods

All welding shall conform to the latest specifications for Welded Highway & Railway Bridges, Design, Construction & Repair of the American Welding Society.

All backfill behind abutments shall be complete in place before placing of prestressed girder.

Footings shall be excavated and poured to neat lines. In case of over-excavation, space between footing and ground shall be filled with concrete at the contractor's expense. This fill concrete shall have a minimum quality of Class D-1.

For deck slab camber see sheet #4

Except for shelf line, Abut. & Pier excavated area shall be backfilled to original ground line. At shelf line, area shall be backfilled to top of shelf.

Concrete channel lining to follow smooth lines and match existing concrete banks. Exact slope lines & extent to be determined in the field by the Engineer.

General

Excavation for concrete channel lining shall be incidental to Class A-1 concrete and will not be paid for separately. See Special Provisions.

Demolition for reconstruction of existing concrete channel lining shall be incidental to concrete and will not be paid for separately. Reinforcing steel in demolished section of existing lined bank shall be cleaned and lapped 2'-0" min. with new section of concrete channel lining.

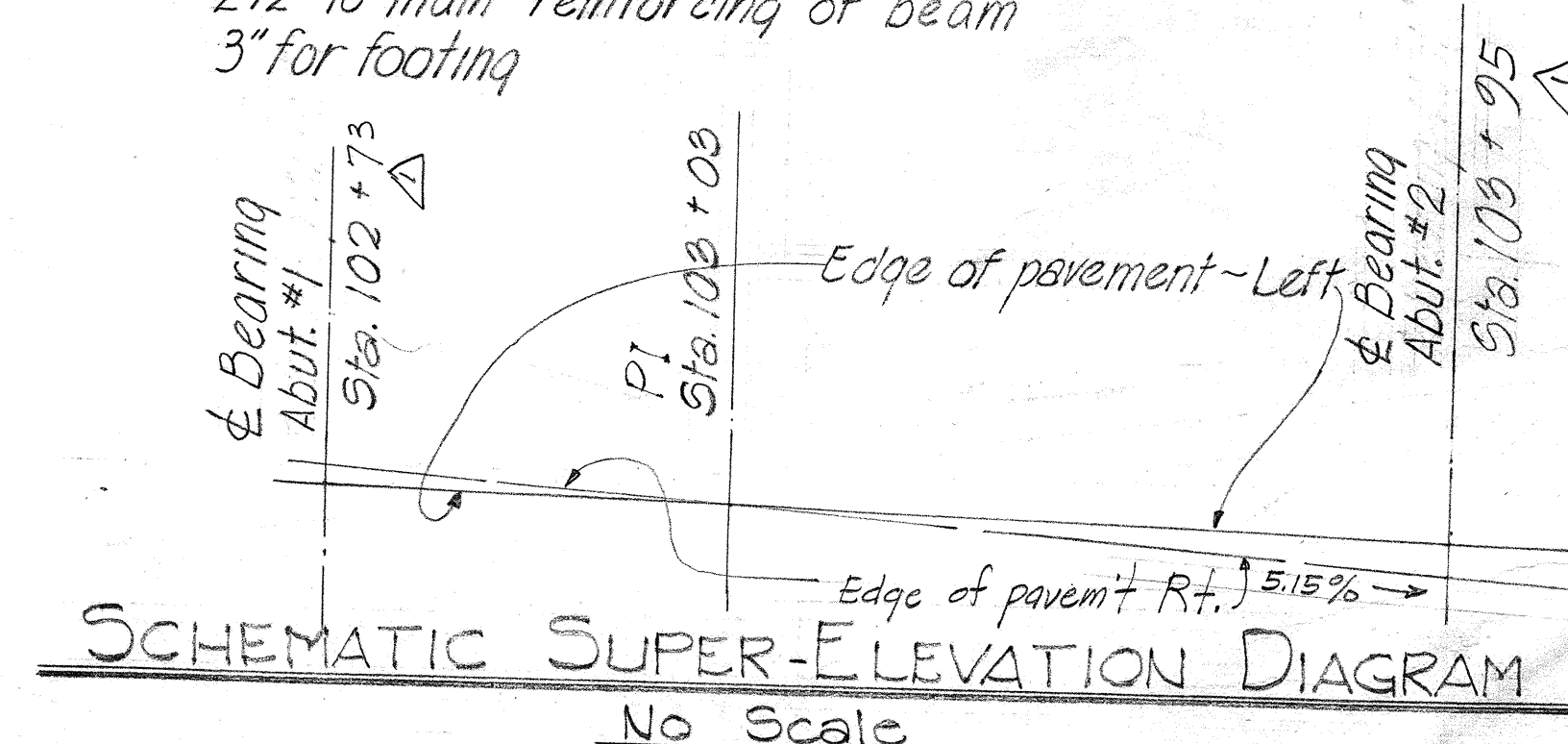
Cover for reinforcing bars shall be as follows except as otherwise noted:

2" for formed walls

1 1/2" to main top bars and 1 1/4" to main bottom bars at deck slab

2 1/2" to main reinforcing of beam

3" for footing



Note: For Super-Elevation
see Highway Drawings.

DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION STATE OF HAWAII
WAIKELE STREAM BRIDGE
STA. 102+66.30 to STA. 103+23.70
FARRINGTON HWY. PROJ. N° F-090-1(7)
SEPT. 1961

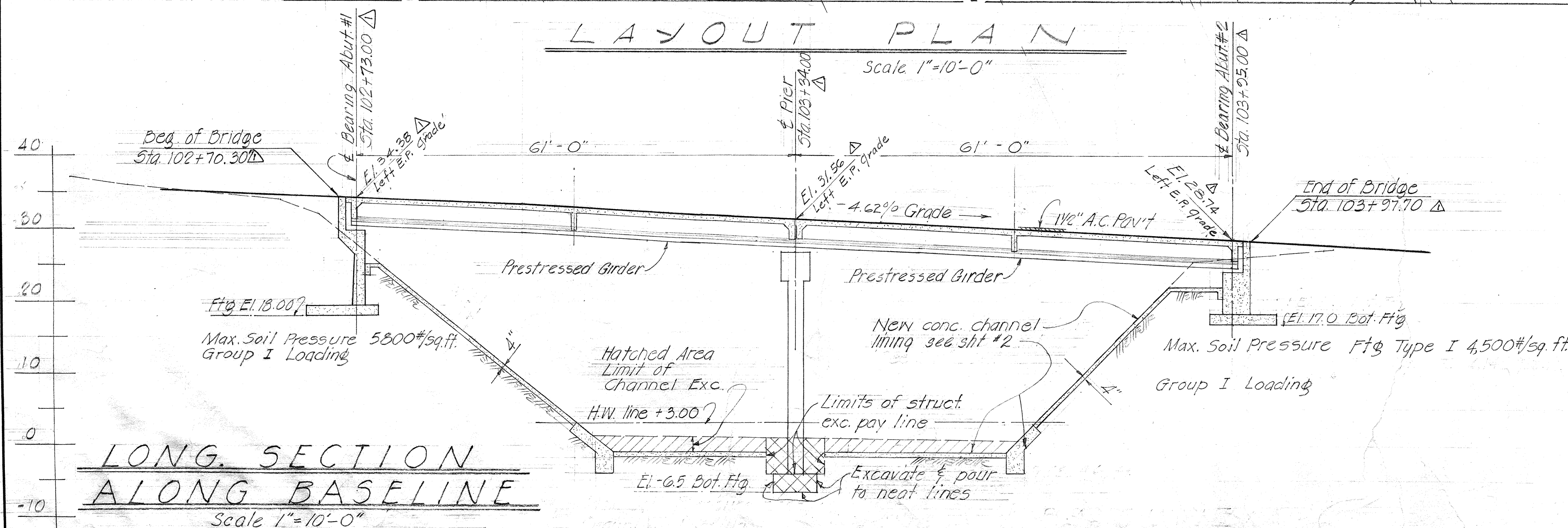
SHEET No. 1 OF 11 SHEETS

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LAYOUT PLAN

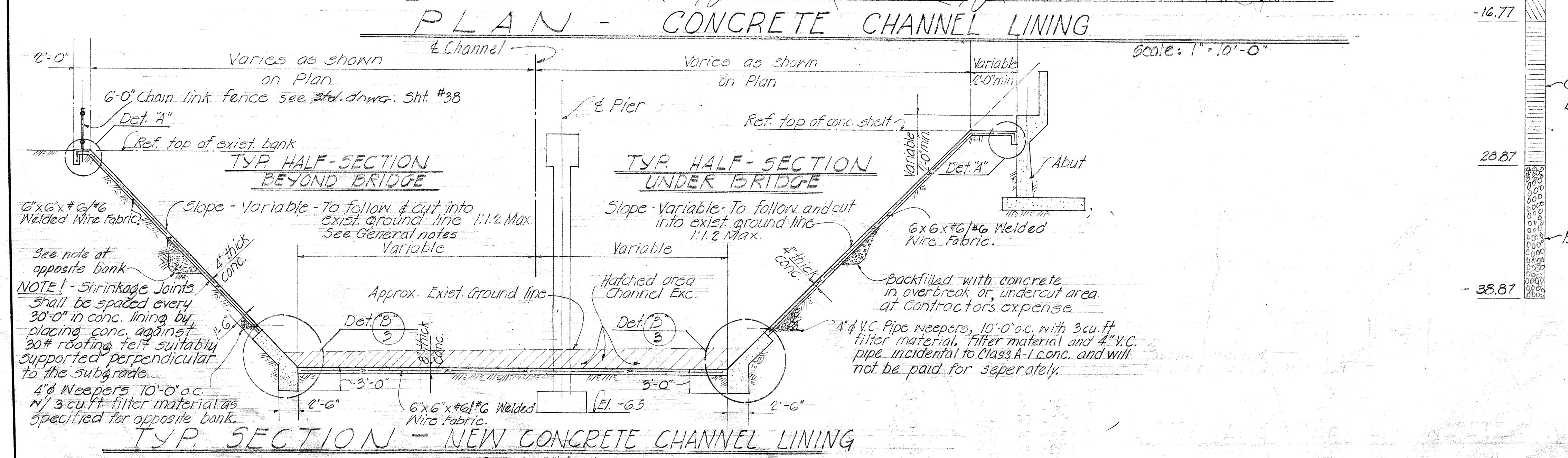
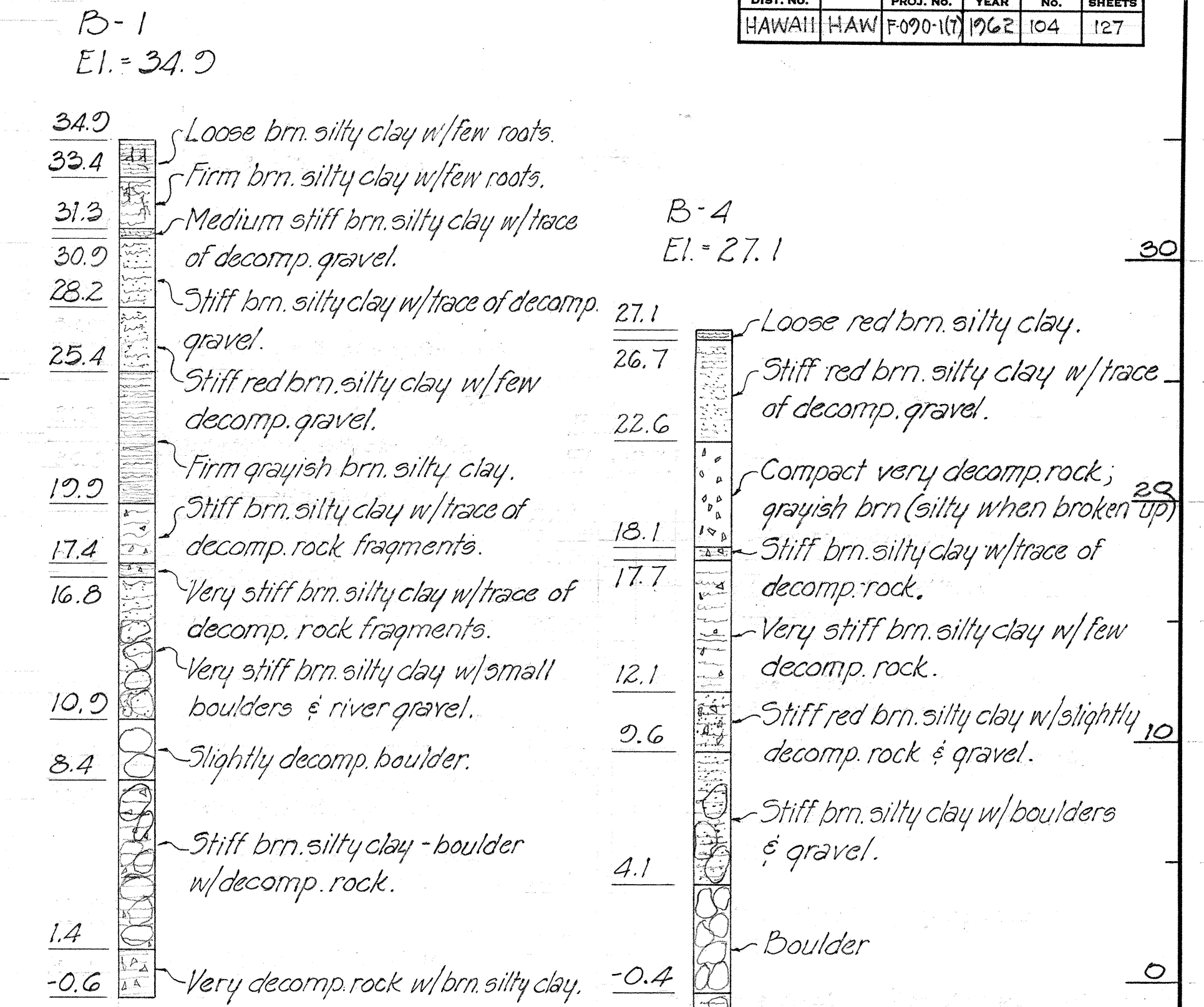
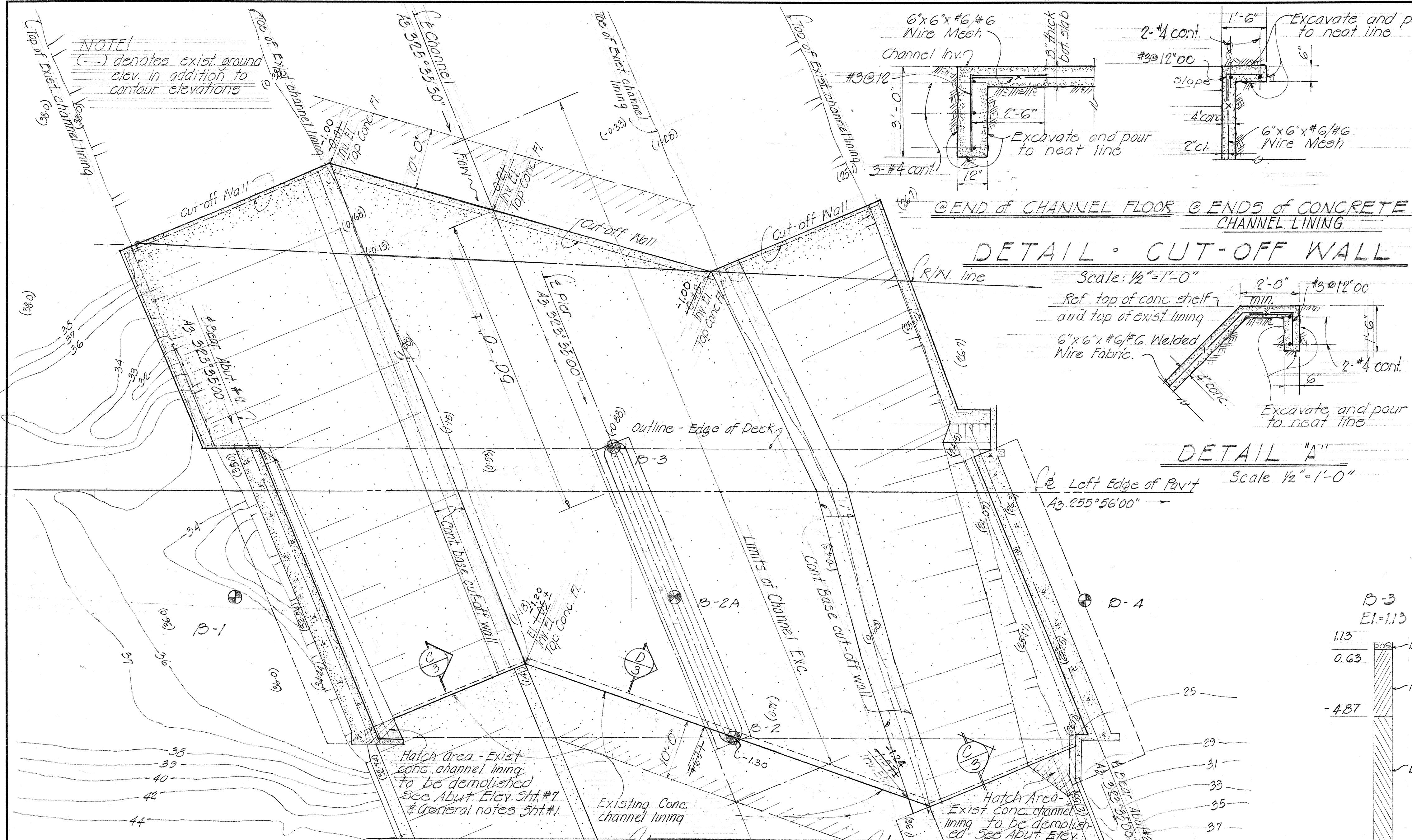
Scale 1"=10'-0"



LONG SECTION ALONG BASELINE

Scale 1"=10'-0"

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DRAWN BY	
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QUANTITIES CHECKED BY	
NOTE BOOK	
No.	



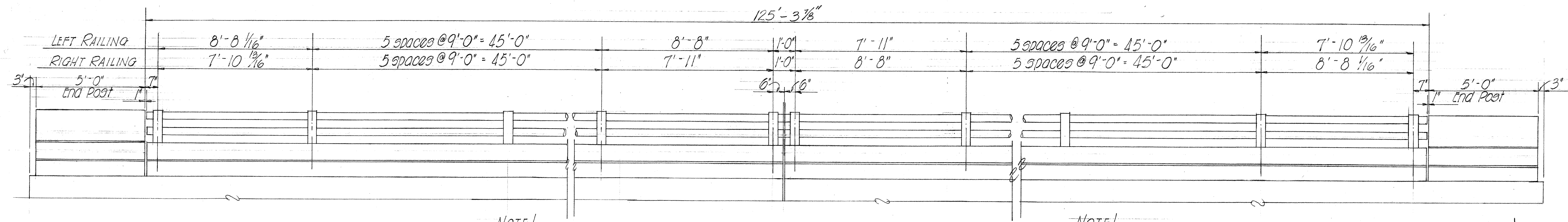
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STATE OF HAWAII

WAIKELE STREAM BRIDGE

STA. 102+66.30 TO STA. 103+93.70

FARRINGTON HWY. PROJ. NO. F-090-1(7)

SEPT. 1961



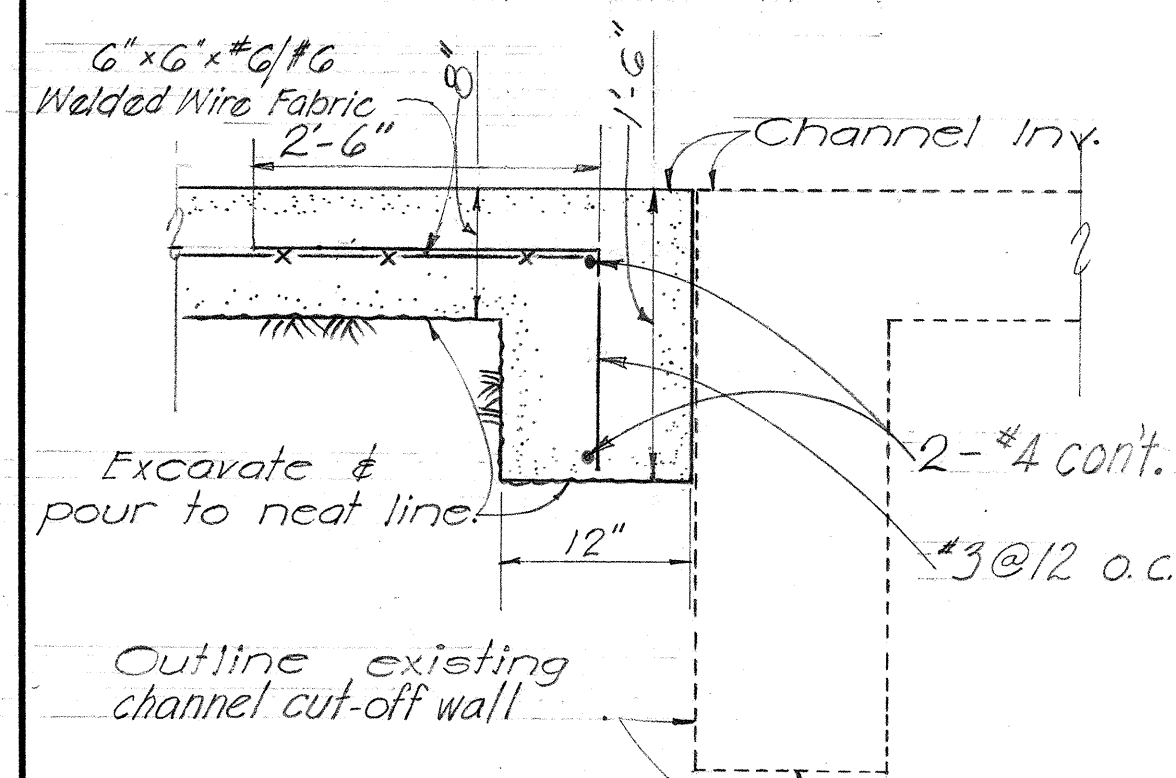
NOTE!
Dimensions shown are taken on inside face of railing

NOTE!
For additional railing details, see Standard Details - Alum. Railing.

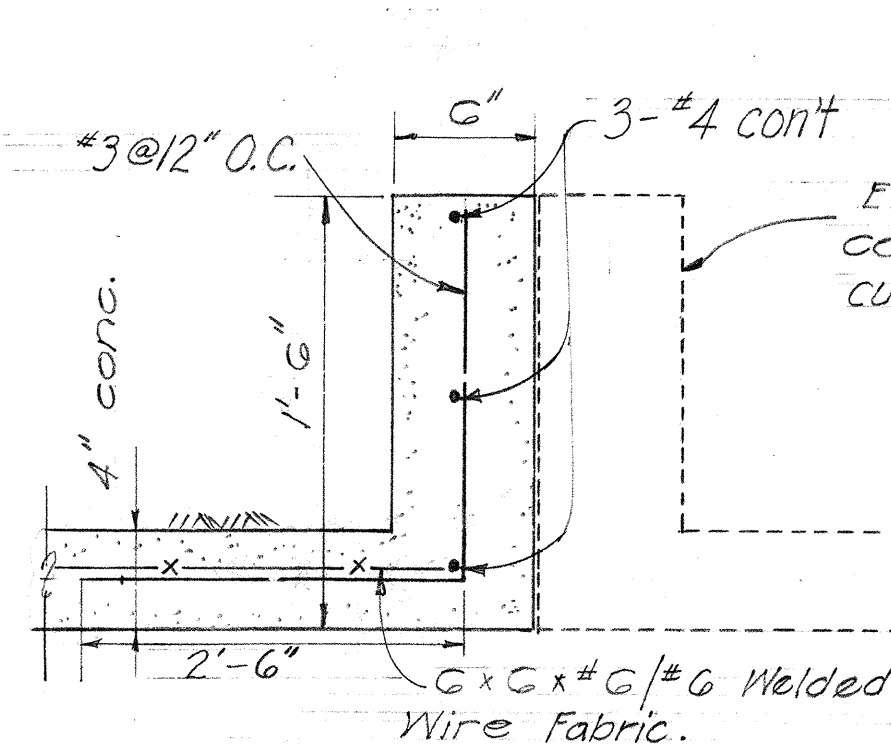
* Channel lining Roadway items.

RAILING ELEVATION

Scale: 3/8" = 1'-0"

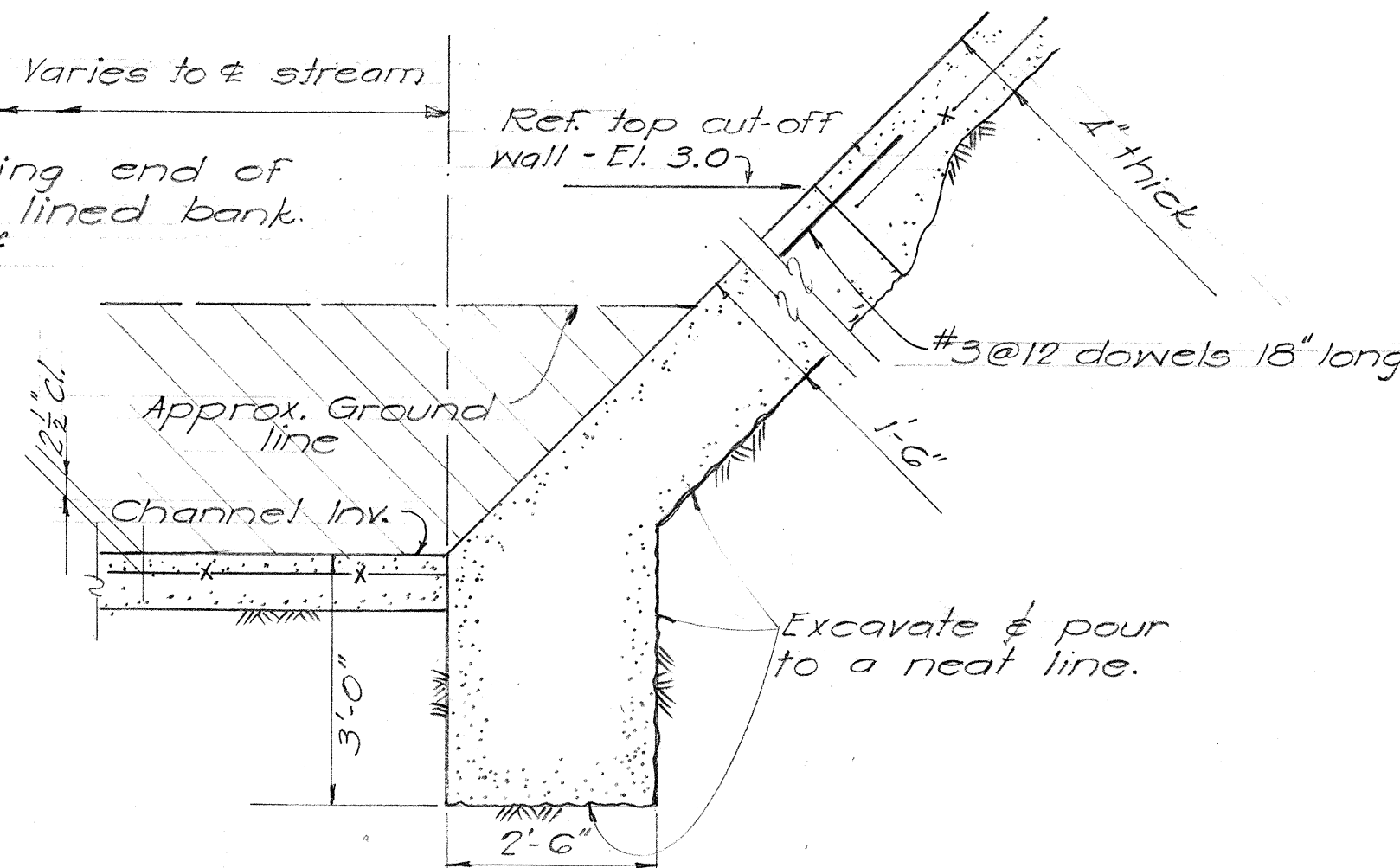


AT SECTION (D)
Scale: 1" = 1'-0"



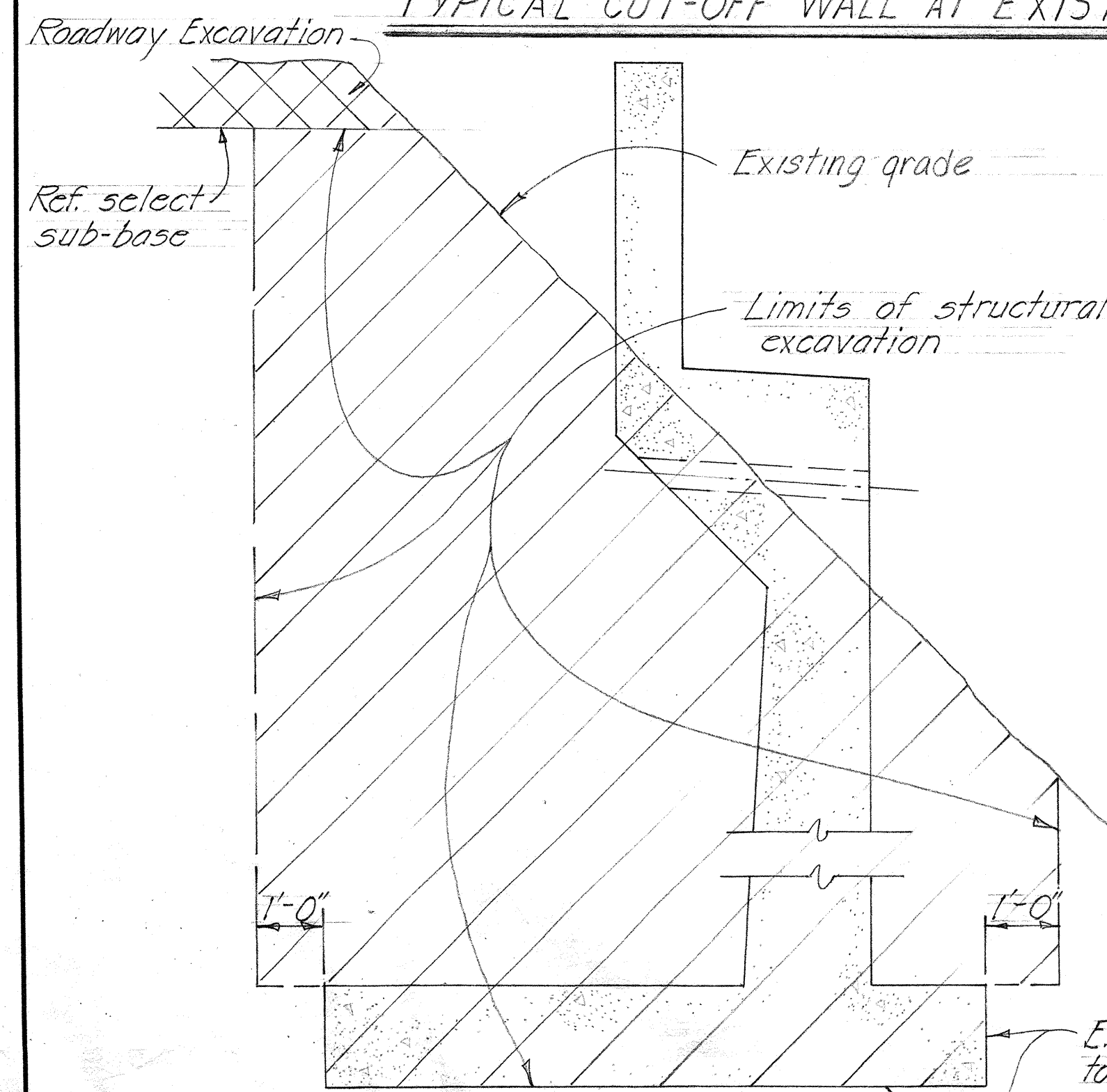
AT SECTION (C)
Scale: 1 1/2" = 1'-0"

TYPICAL CUT-OFF WALL AT EXISTING CONCRETE PAVING

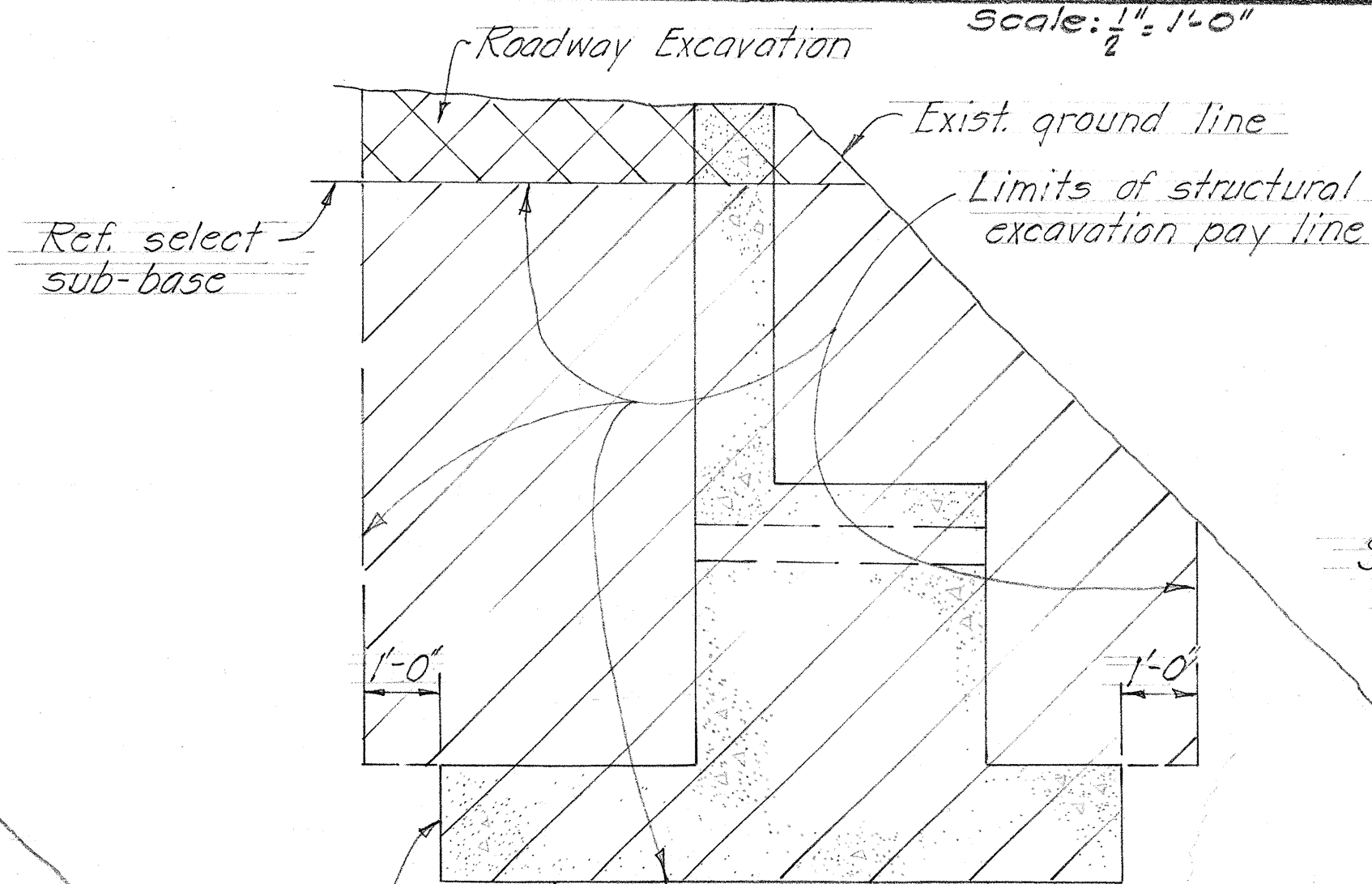


DETAIL (B)
Scale: 1/2" = 1'-0"

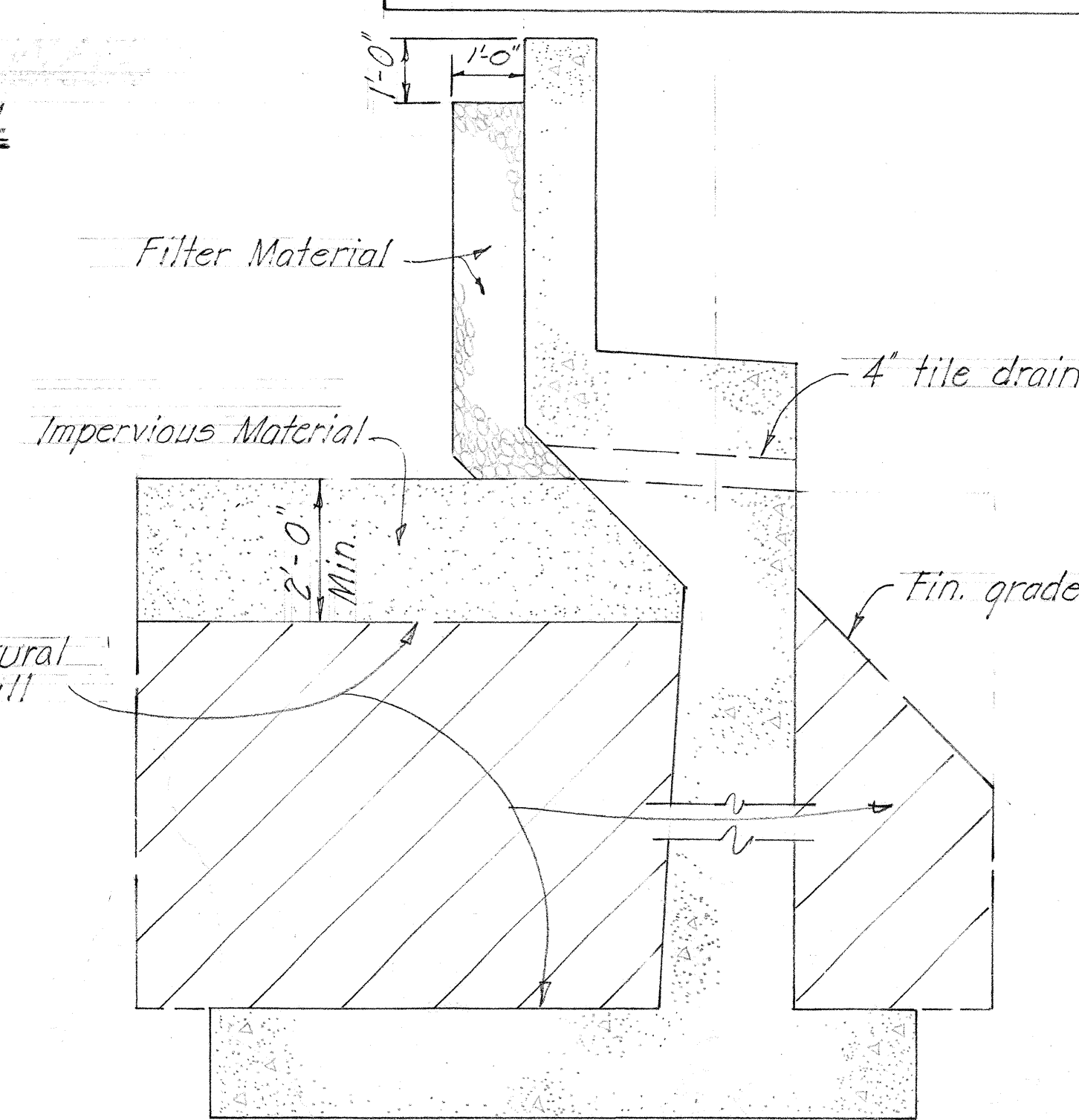
CHANNEL LINING BASE CUT-OFF WALL



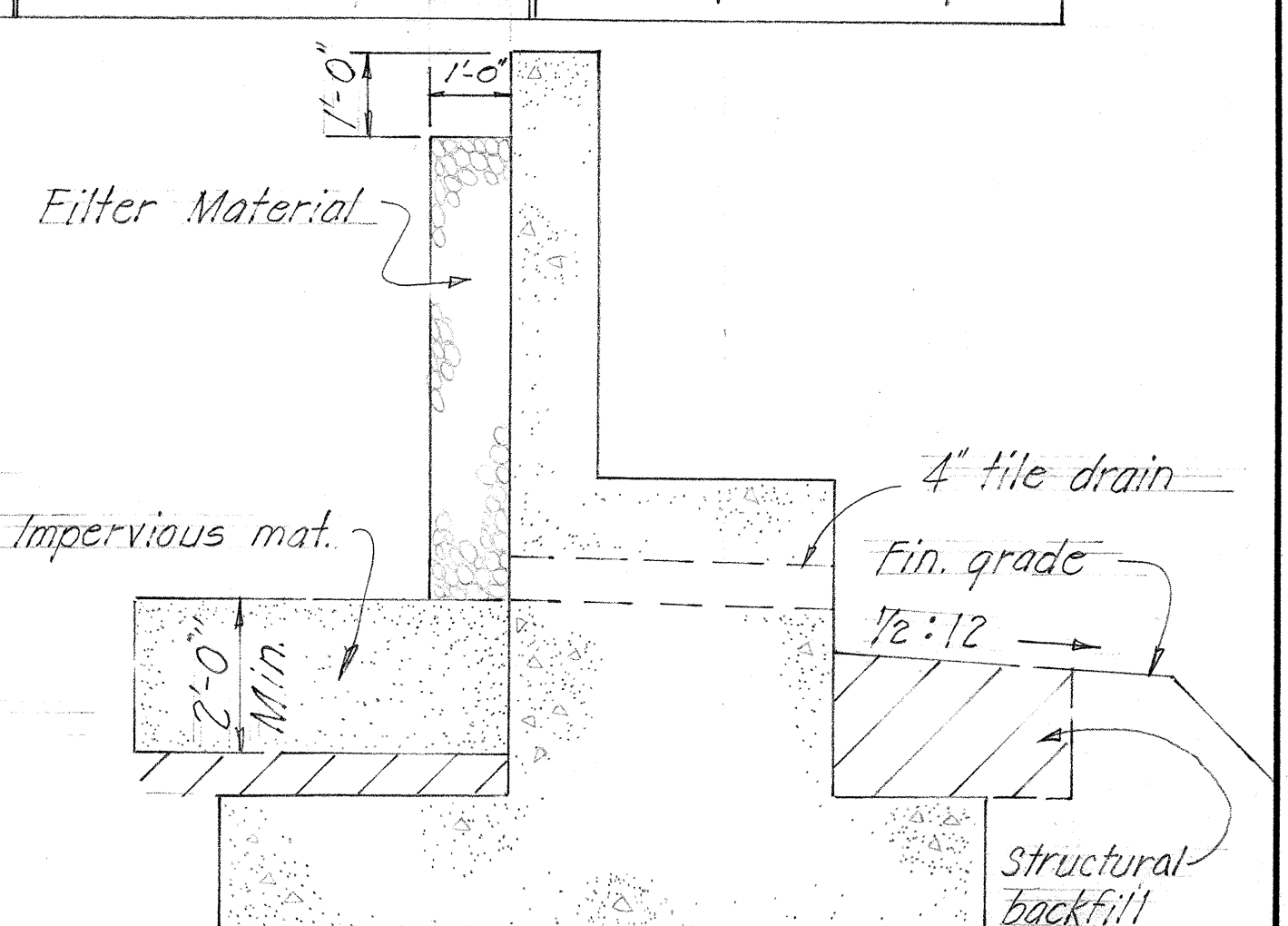
CASE I



CASE II



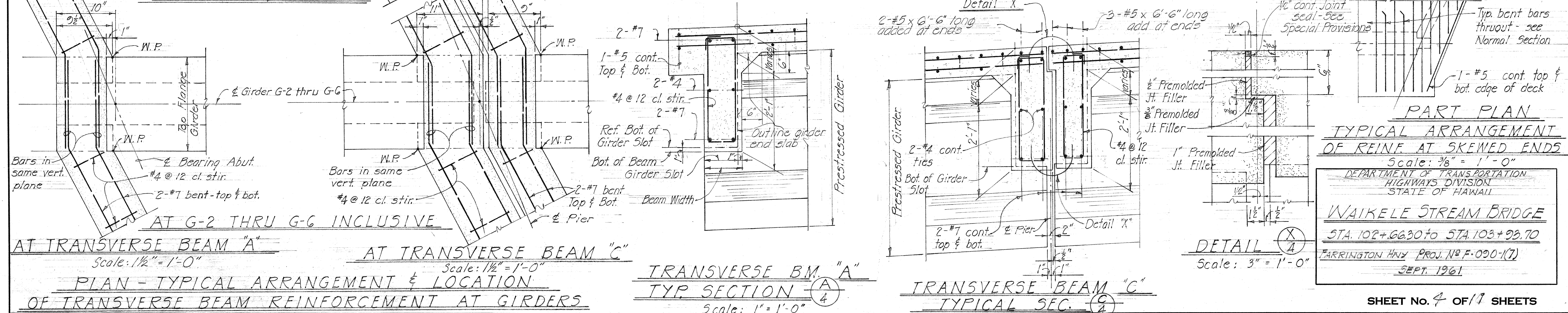
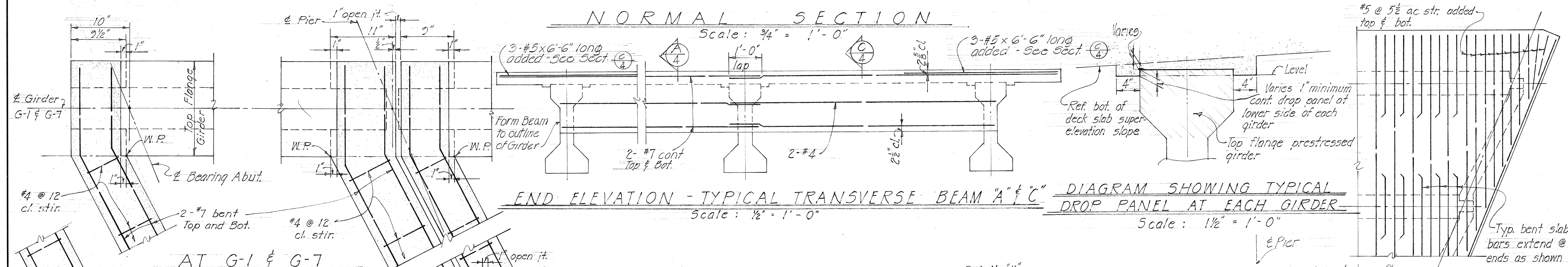
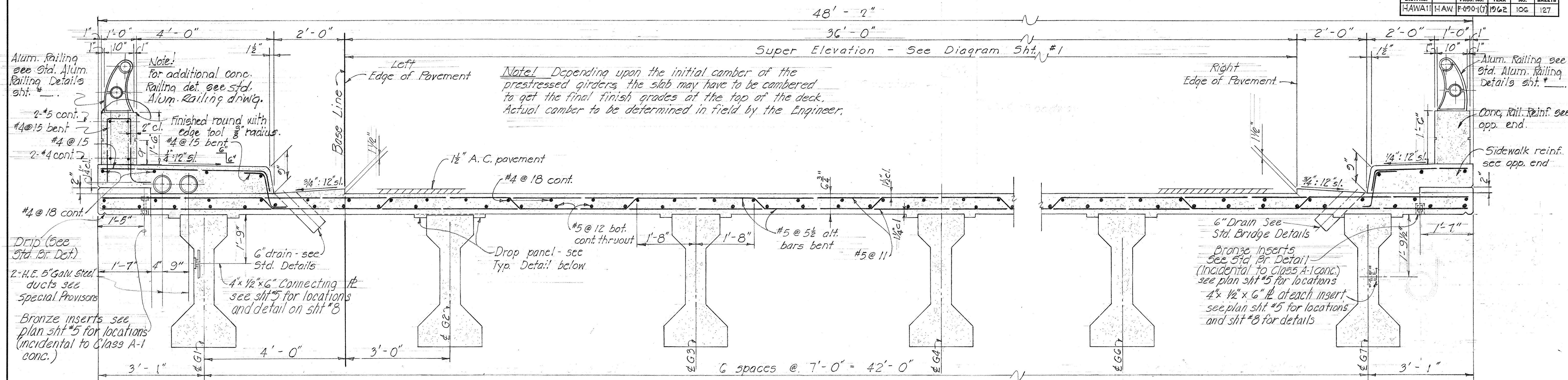
CASE I



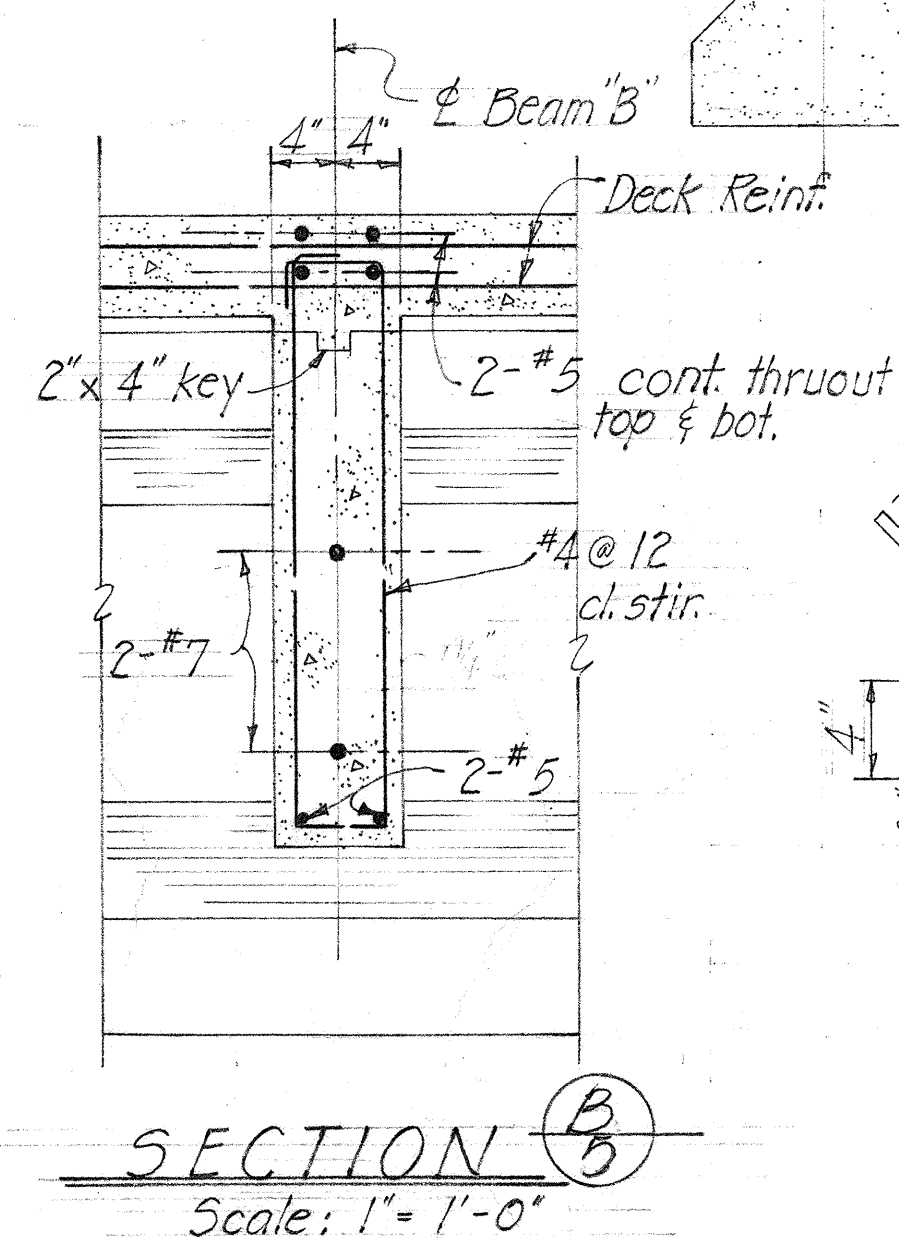
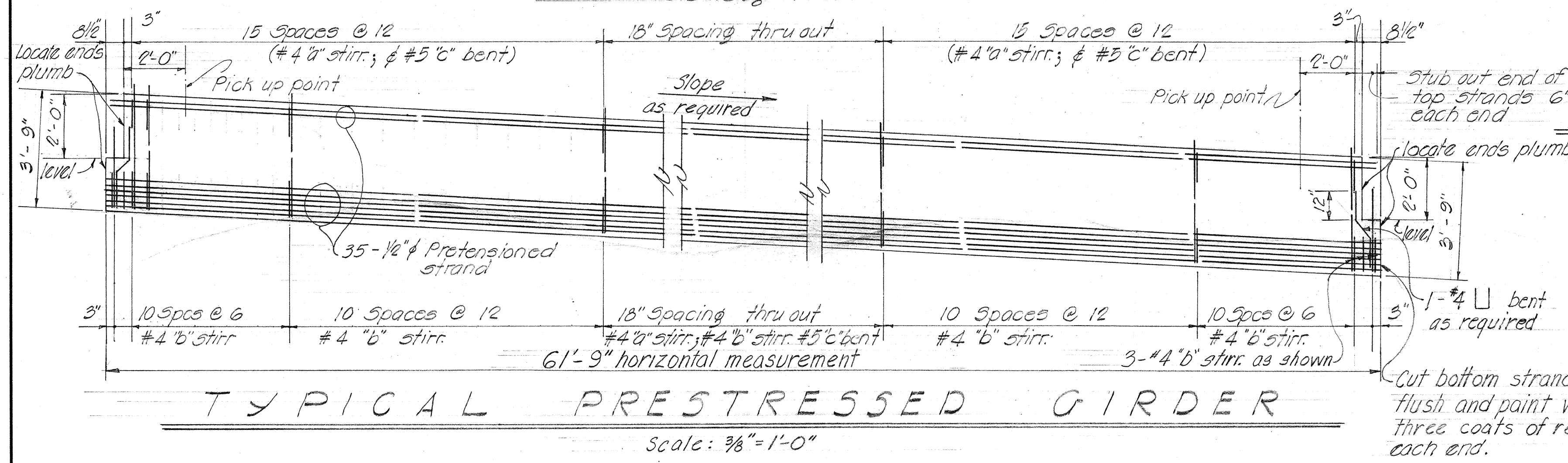
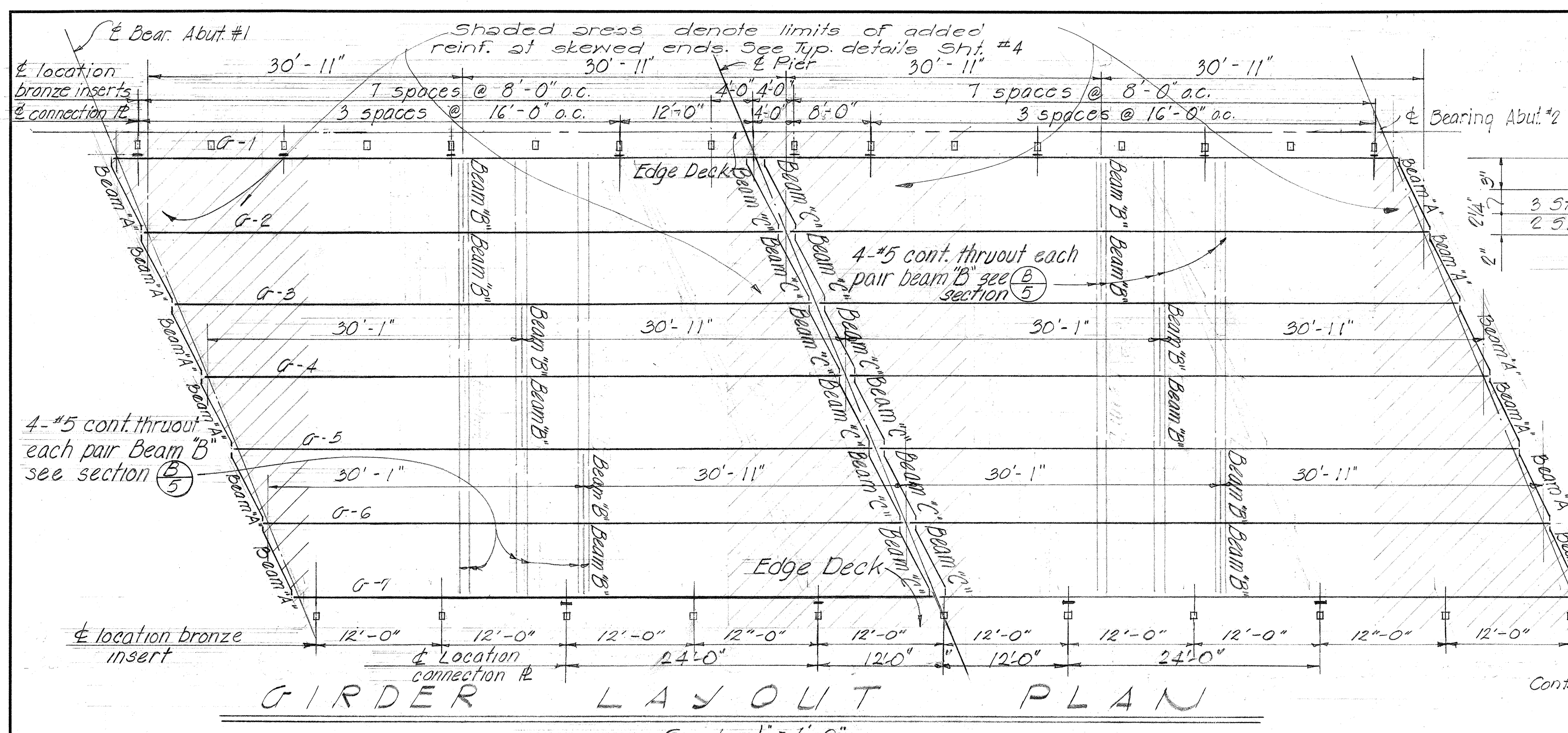
CASE II

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STATE OF HAWAII
WAIKOLE STREAM BRIDGE
STA. 102+66.30 to STA. 103+93.70
FARRINGTON HWY. PROJ. F-090-17
SEPT 1961

SHEET No. 3 OF 11 SHEETS

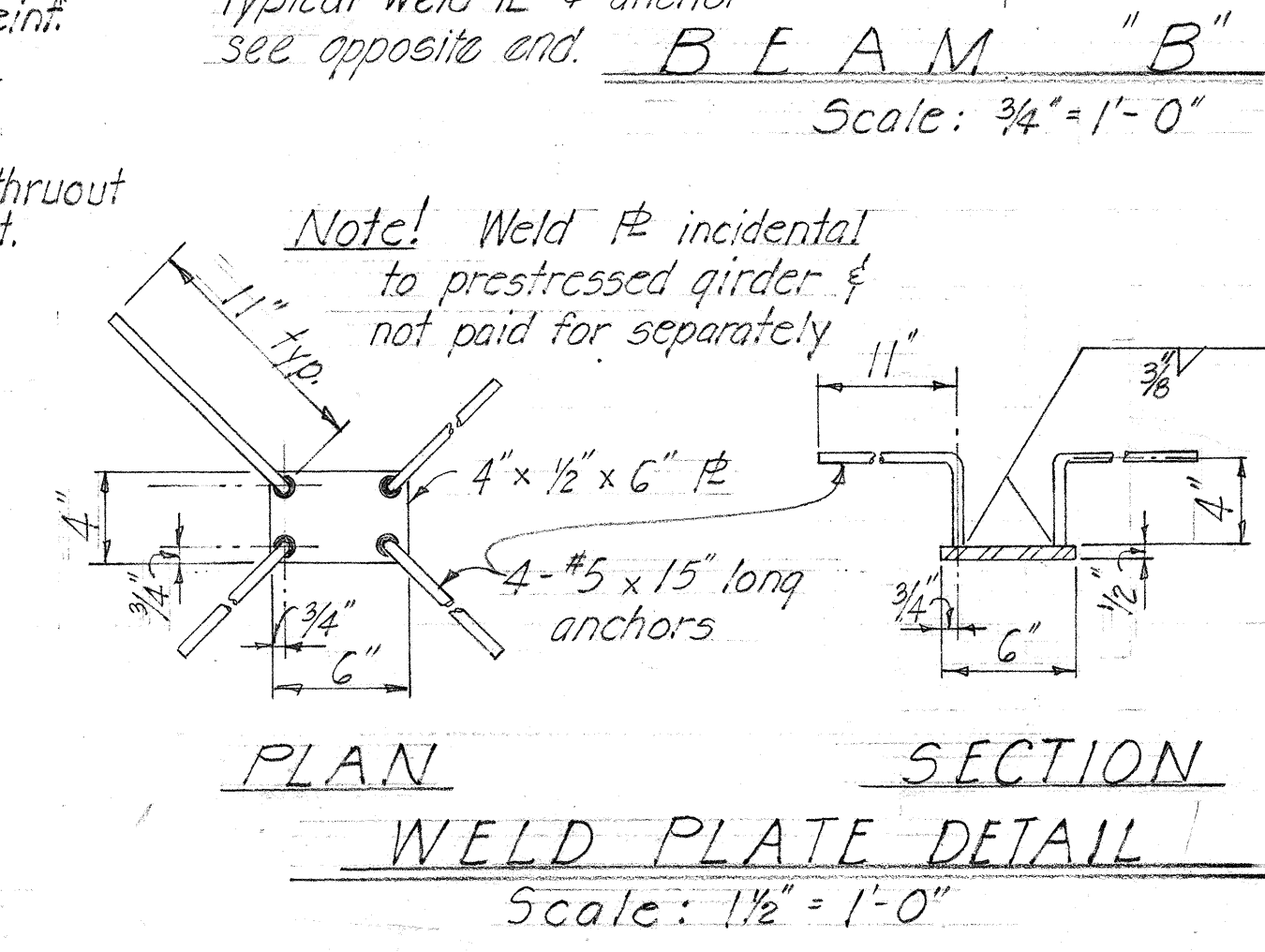
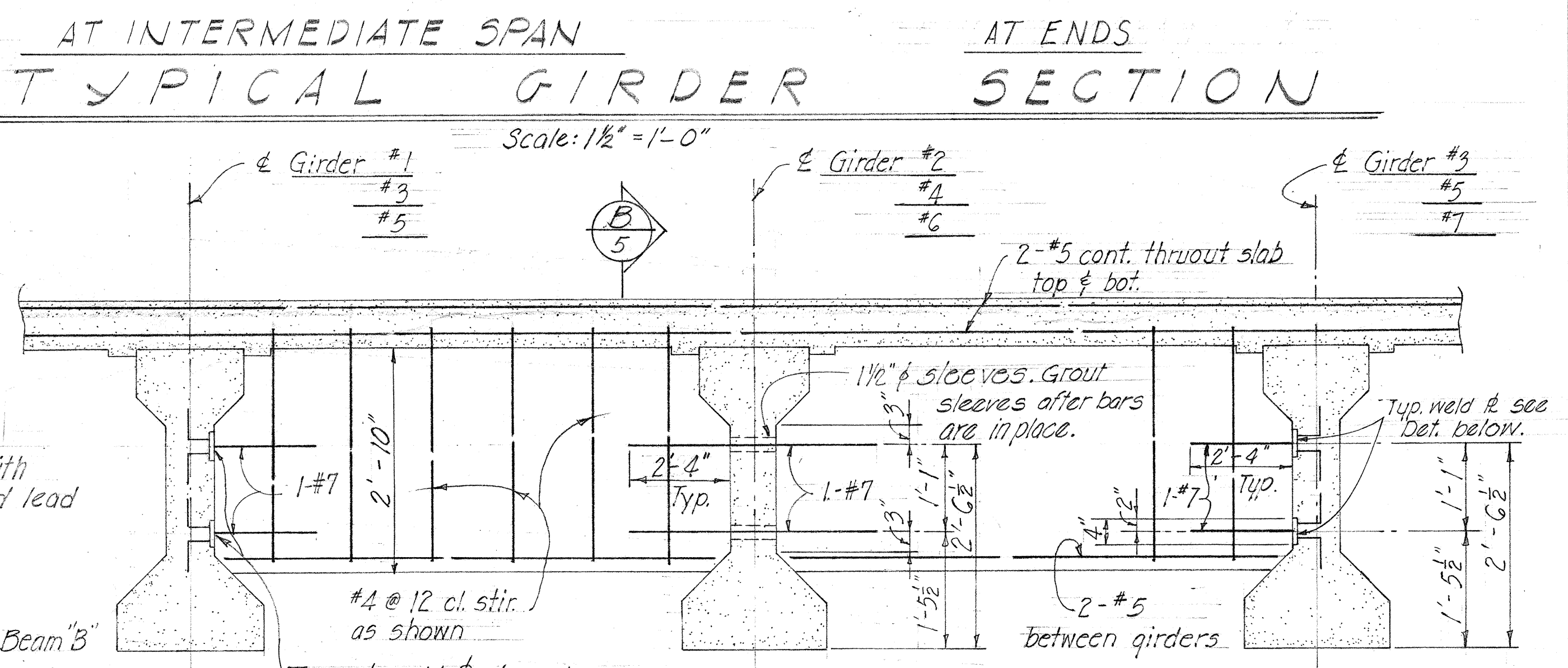
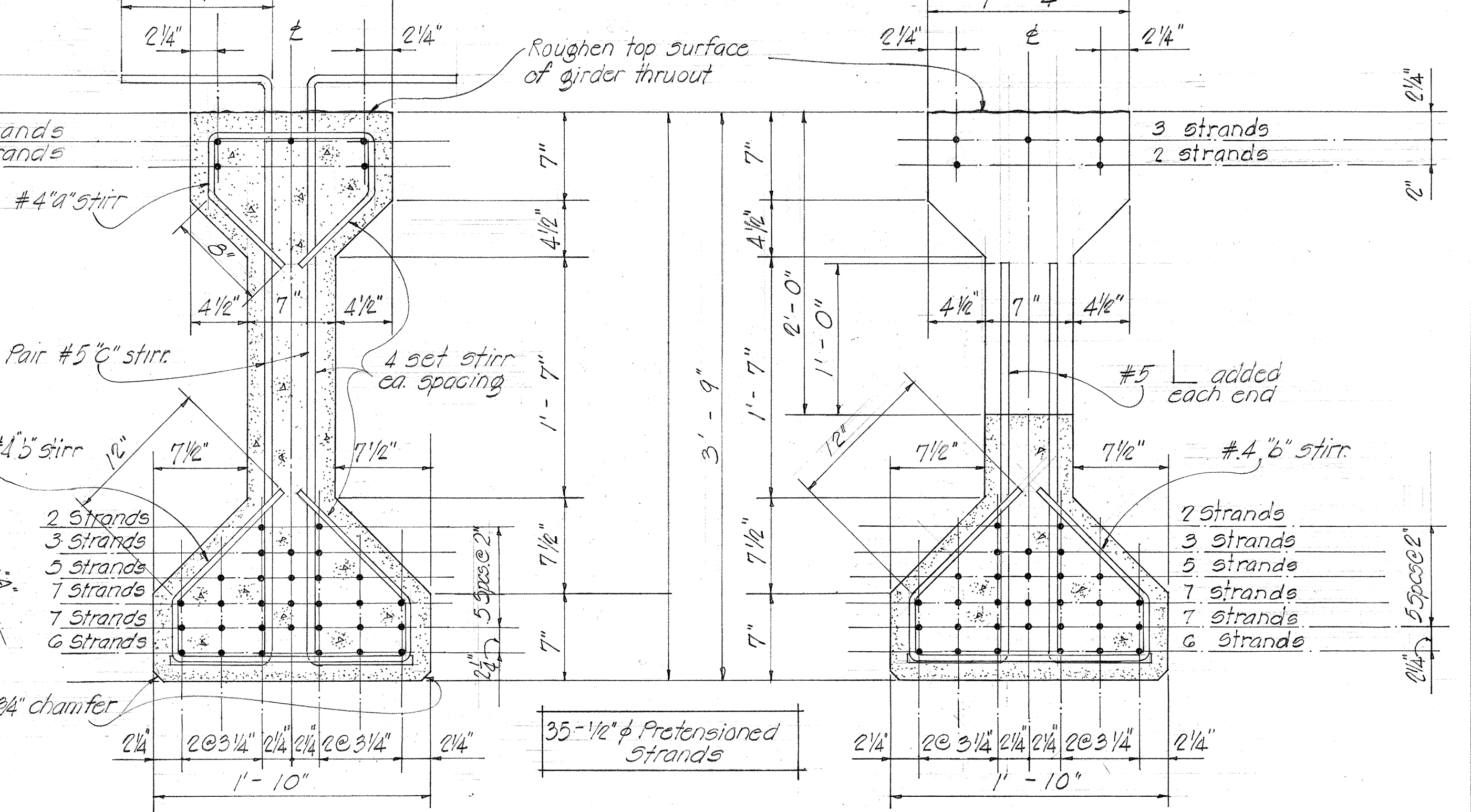


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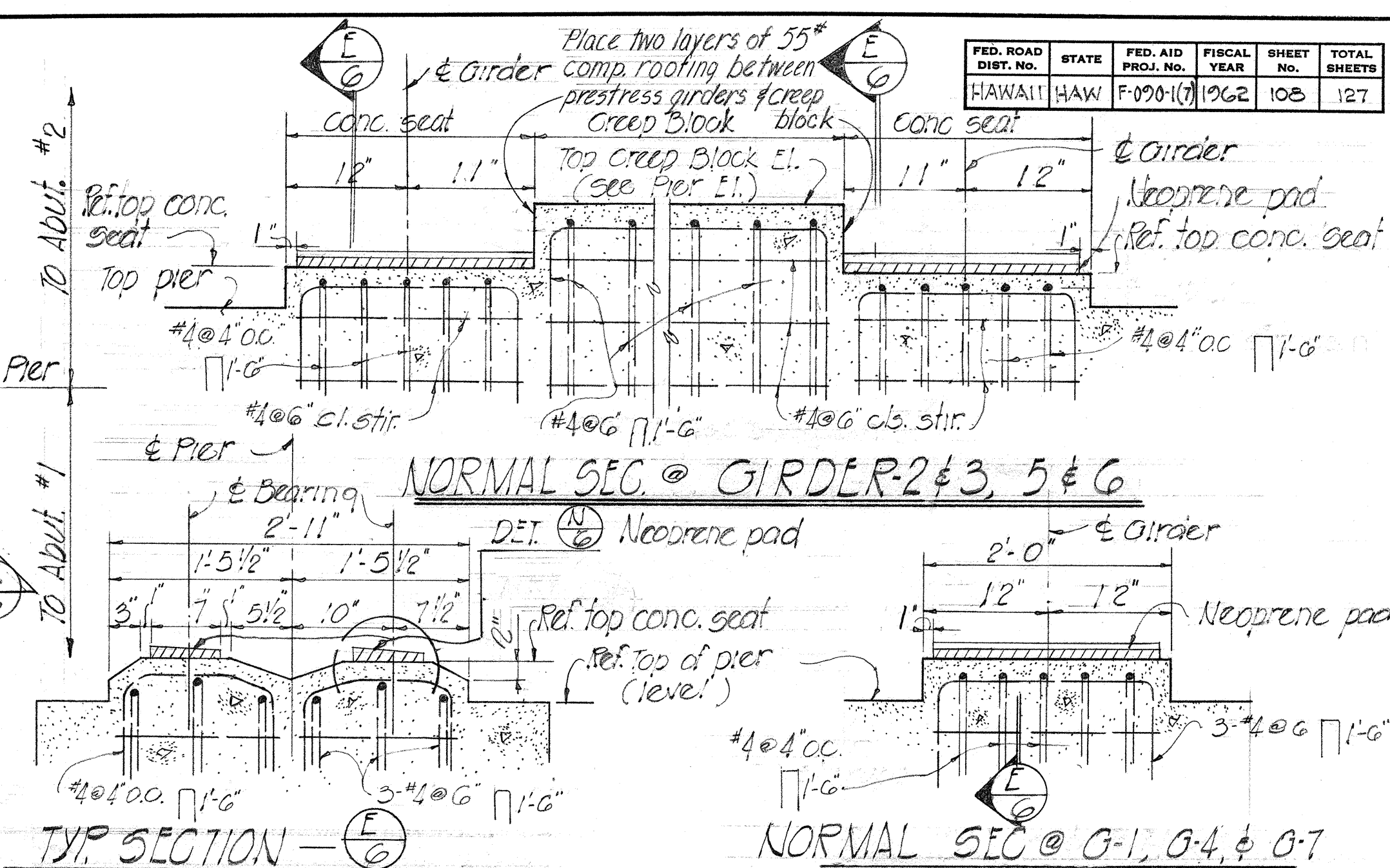


NOTE: Provide connection of in prestressed girder G-1 & G-7 as indicated on girder layout plan & normal section.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
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 STA. 102+66.30 to STA. 103+23.70
 FARRINGTON HWY. PROJ. N.E.F.-090-1(7)
 SEPT. 1961



SCALE: $\frac{3}{8}'' = 1'-0''$

Neoprene Pad

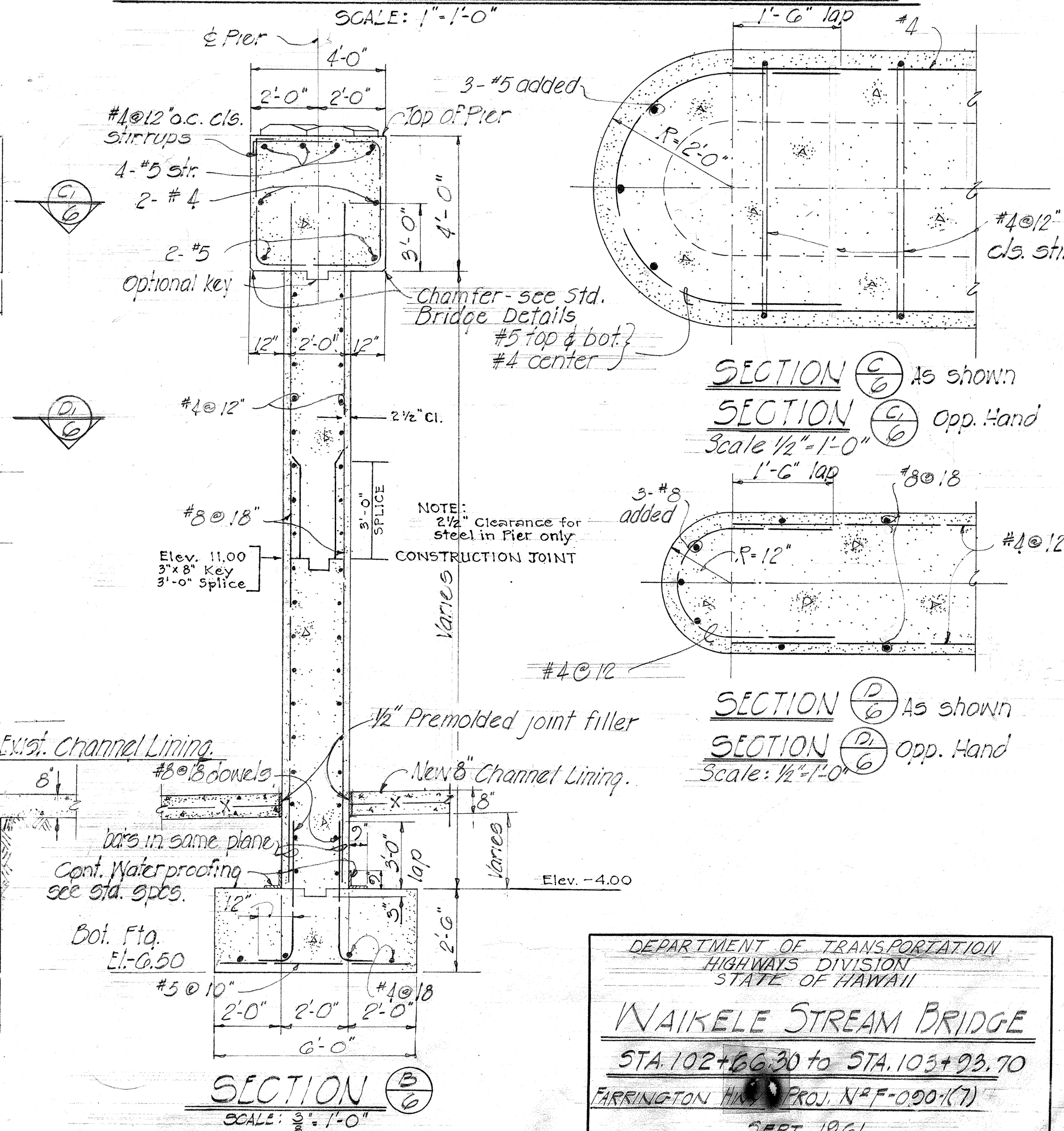
TYP. DET.

SCALE: $1\frac{1}{2}" = 1'-0"$

(N
6)

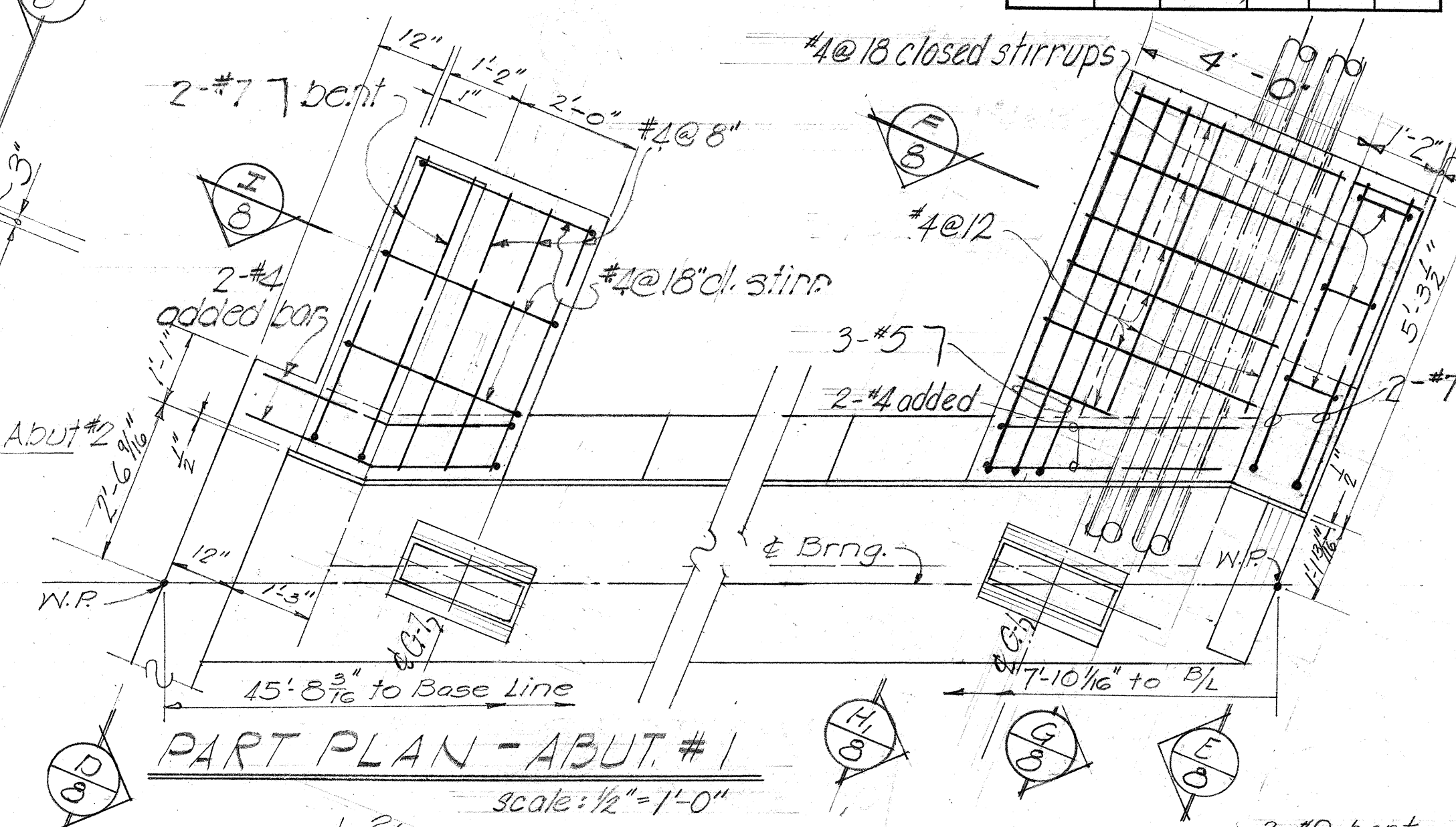


SCALE: 1"=1'-0"

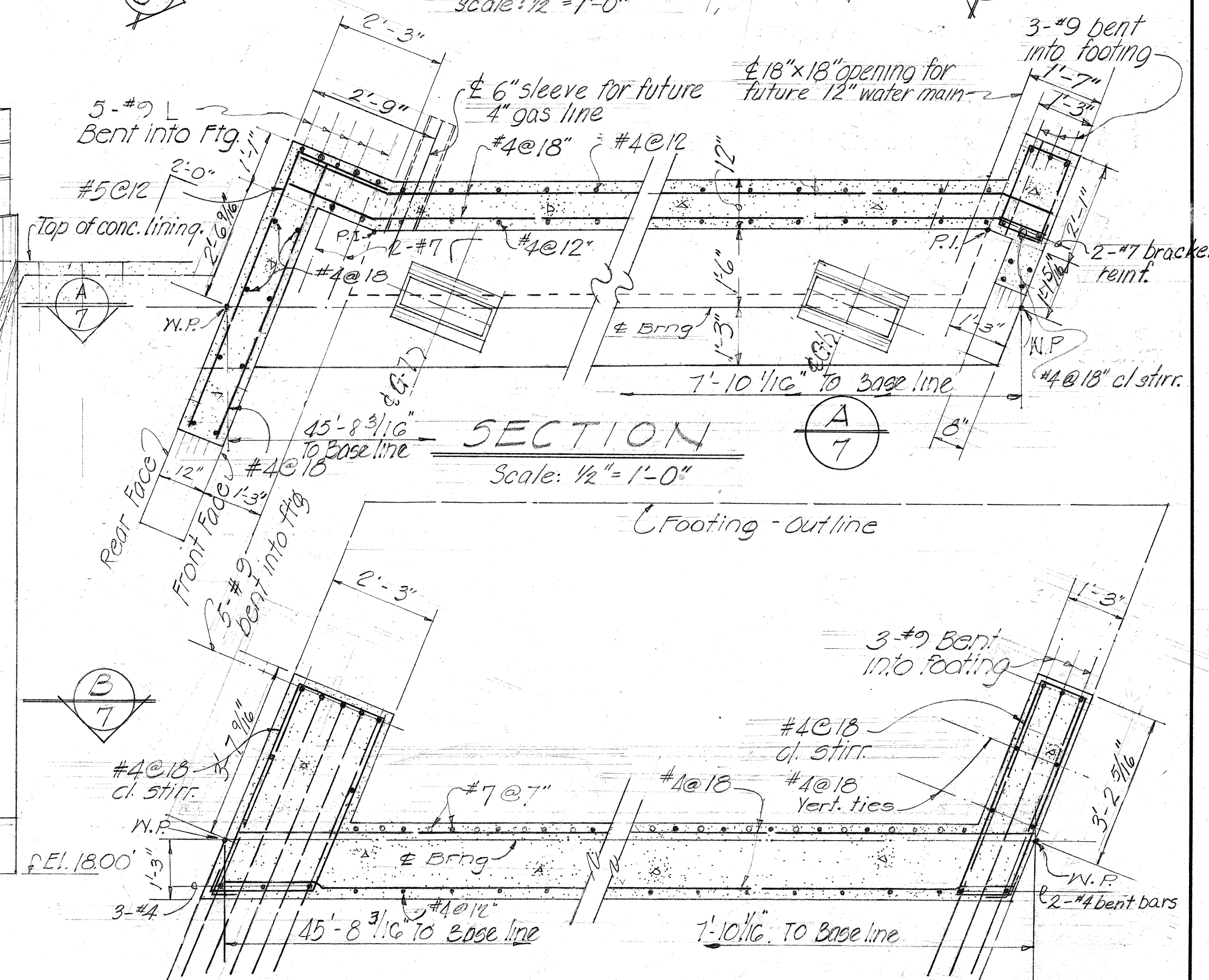


SCALE: $\frac{3}{8}'' = 1'-0''$

SHEET No. 6 OF 11 SHEETS

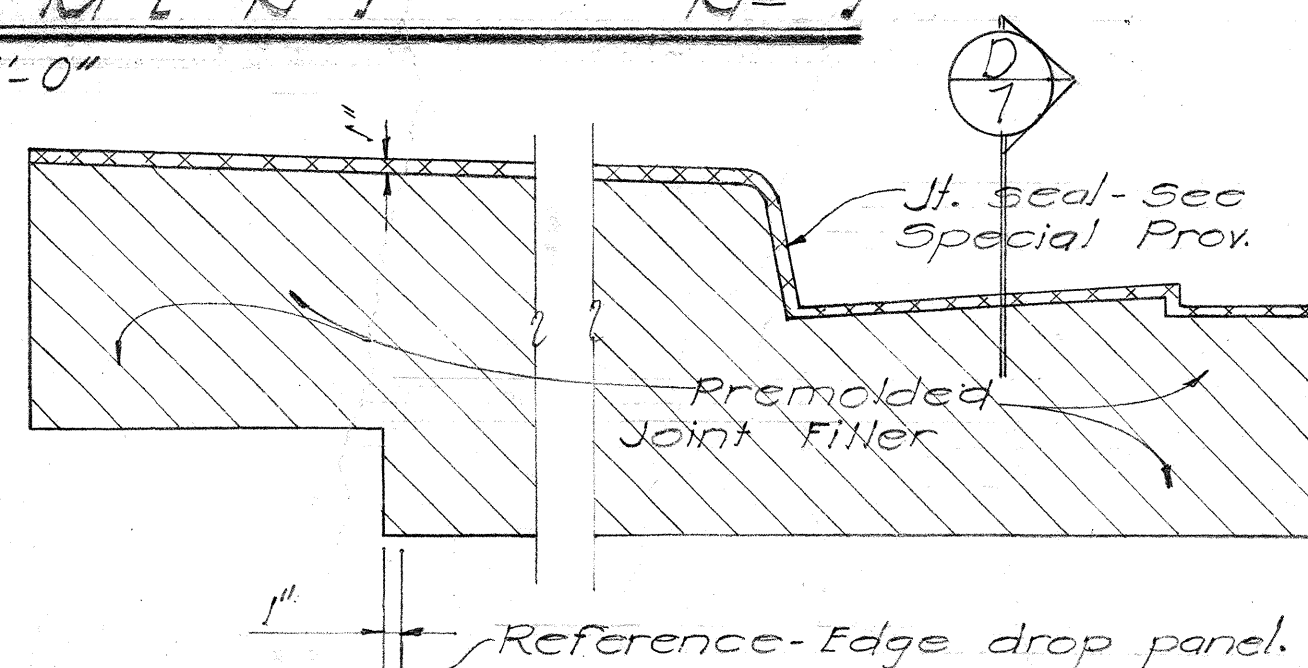
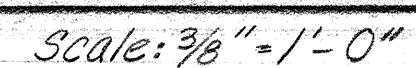


scale: $\frac{1}{2}" = 1'-0"$



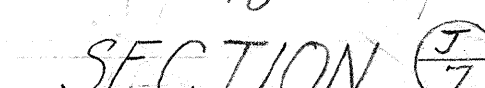
Scale: $\frac{1}{2}'' = 1' 0''$

Scale: $\frac{1}{8}'' = 1'-0''$



Scale: $1\frac{1}{2} = 1'-0"$

Scale: 1" = 1'-0"

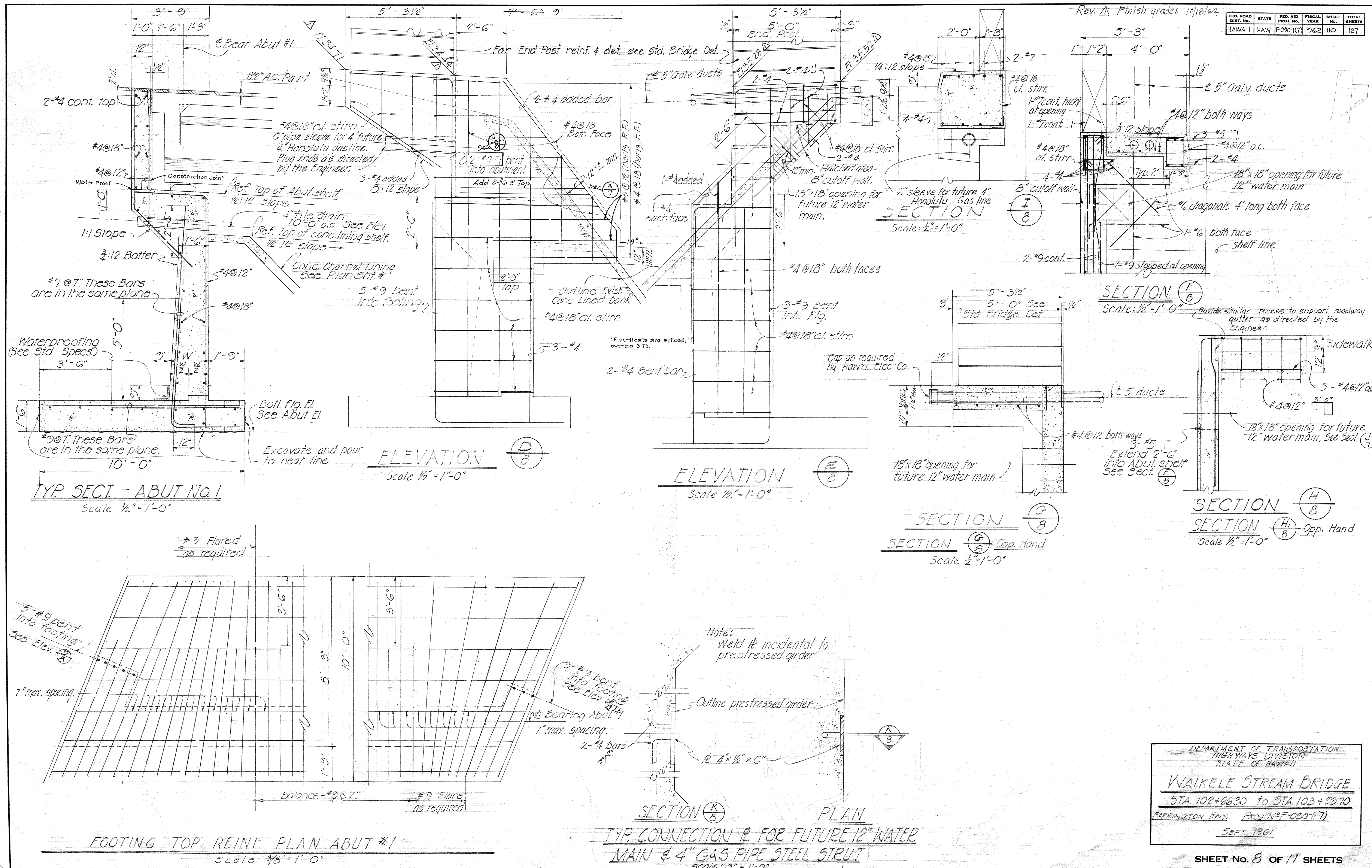


Scale: $\frac{3}{4}" = 1'-0"$

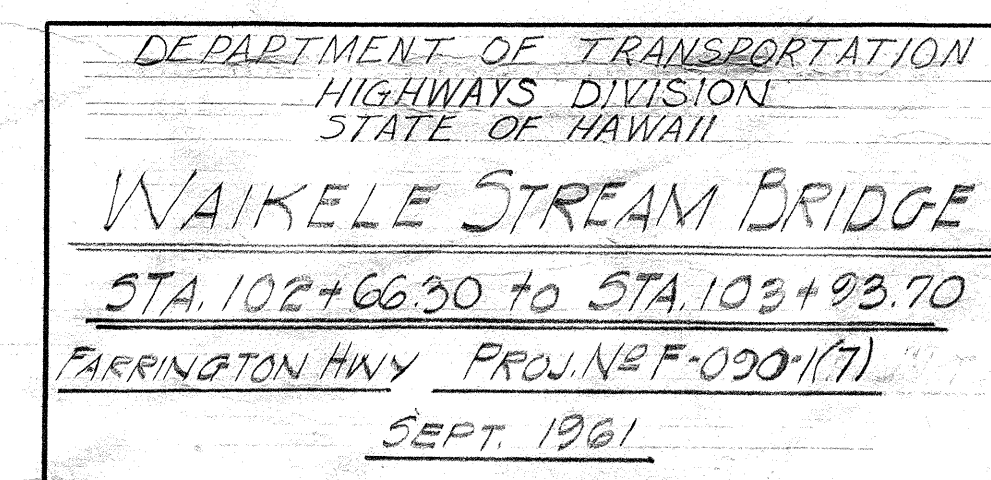
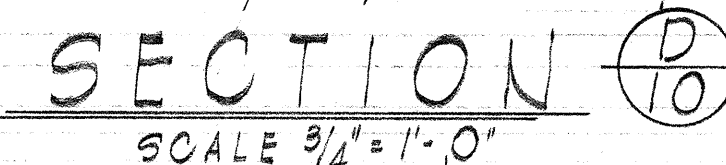
£ 18"x18" opening

SHEET No. 7 OF 11 SHEETS

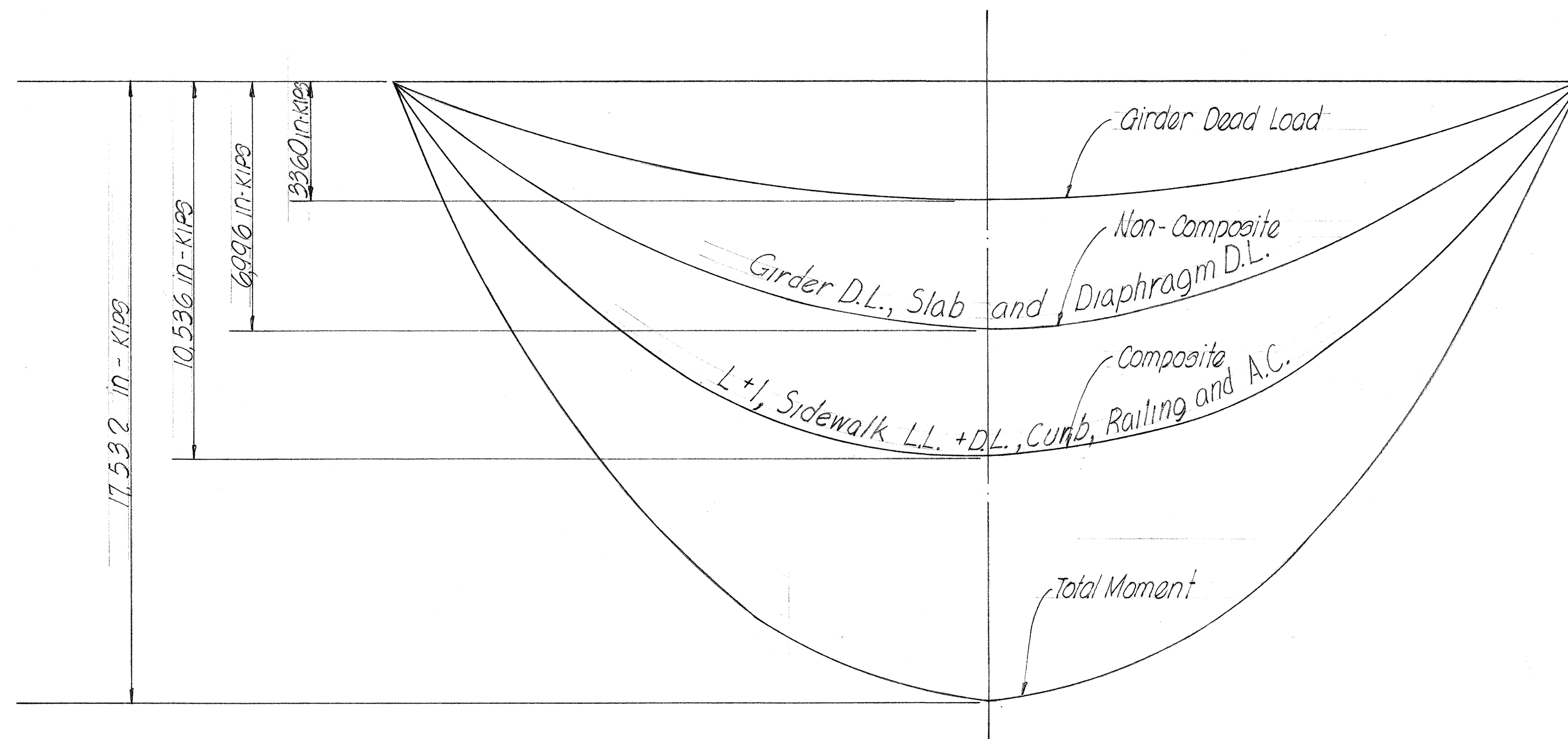
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEET
HAWAII	HAW	F-090-1(7)	1962	110	127



Rev.  Finish grades 10/18/6

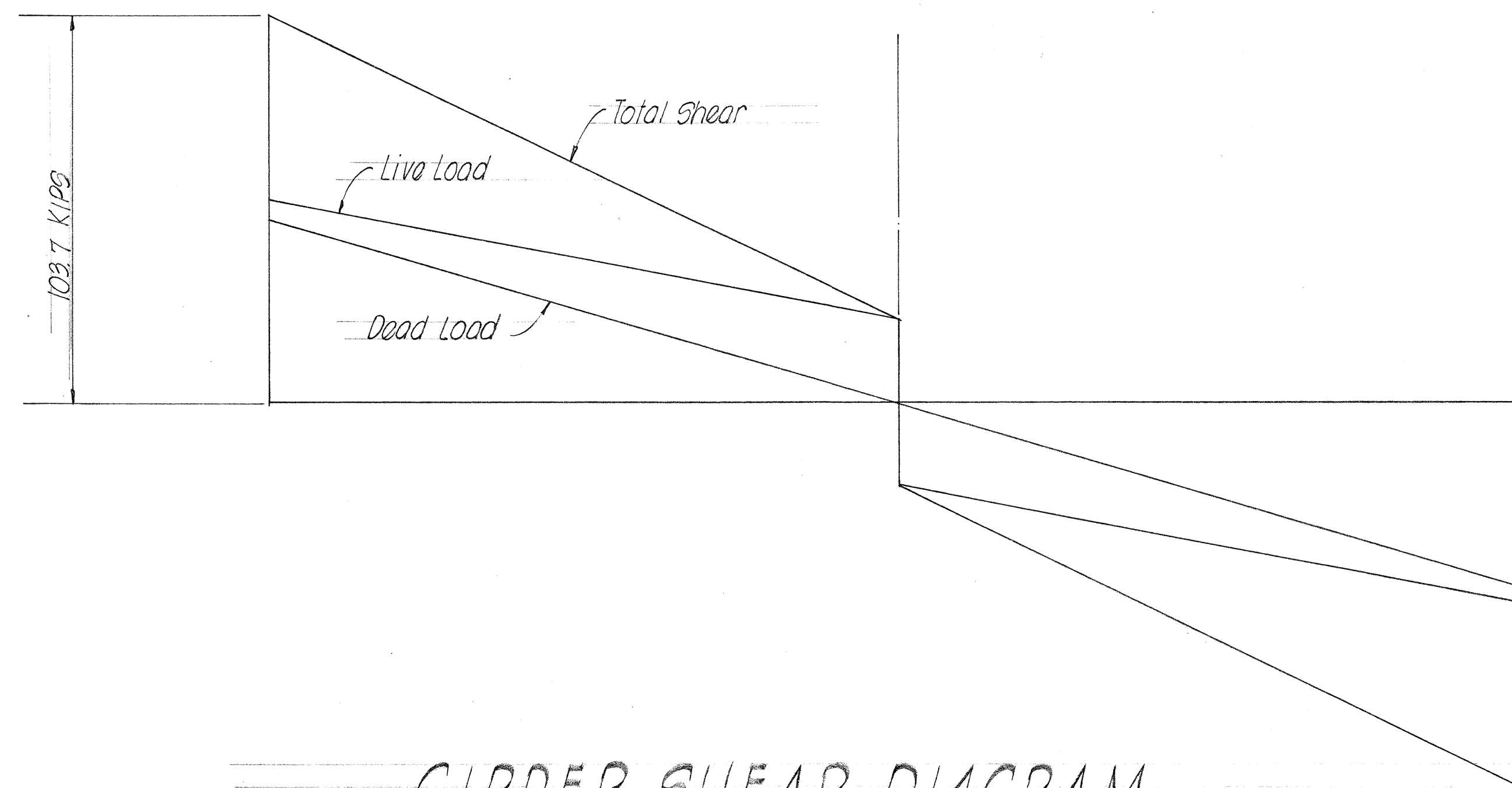


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F-090-1(7)	1962	113	127



GIRDER MOMENT DIAGRAM

SCALE: HORIZ. - $\frac{3}{16}" = 1'-0"$
VERT. - $1" = 3000 \text{ in-kips}$



GIRDER SHEAR DIAGRAM

SCALE: HORIZ. - $\frac{3}{16}" = 1'-0"$
VERT. - $1" = 30 \text{ KIPS}$

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STATE OF HAWAII
WAIKELE STREAM BRIDGE
Sta. 102+66.30 to Sta. 103+93.70
FARRINGTON HWY. Proj. No. F-090-1(7)
SEPT 61

SHEET No. 11 OF 11 SHEETS

ORIGINAL PLAN	NO.
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CHECKED BY	