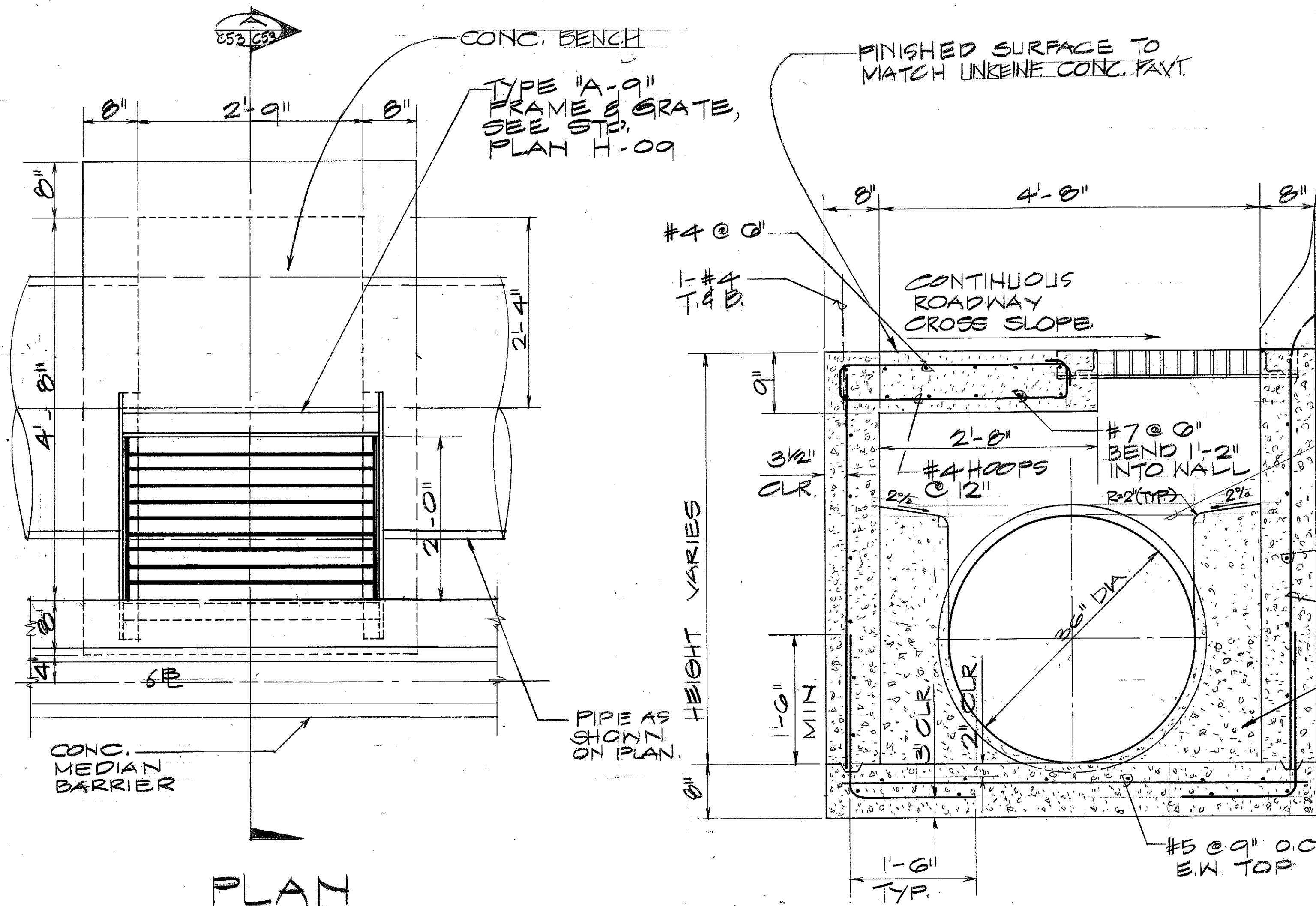
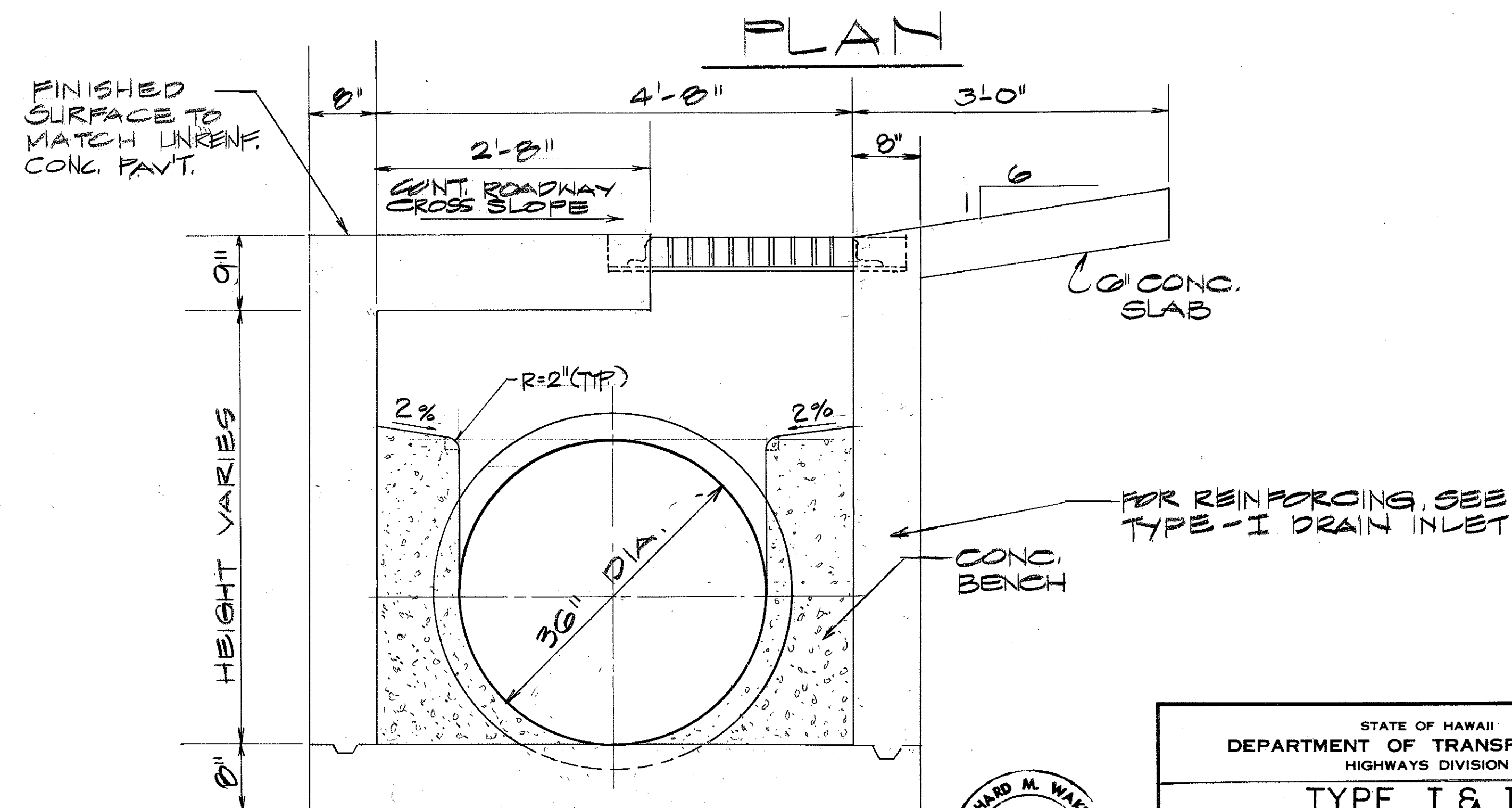


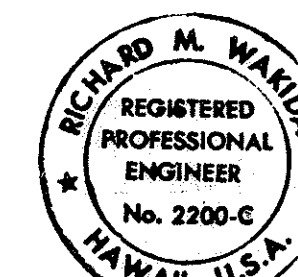
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(69)	1992	56	925



TYPE I DRAIN INLET
SCALE: 1" = 1'-0"



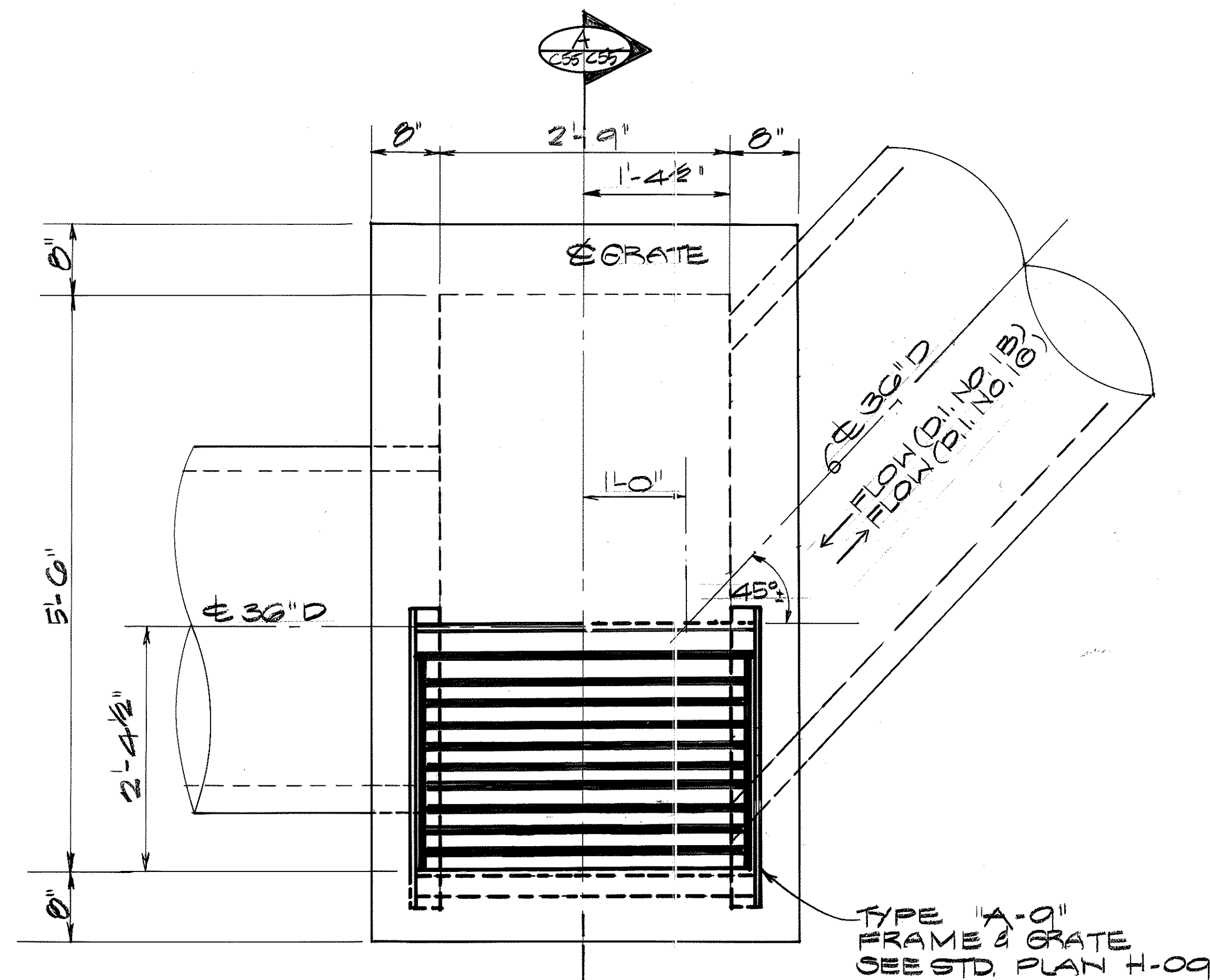
TYPE II DRAIN INLET
SCALE: 1" = 1'-0"



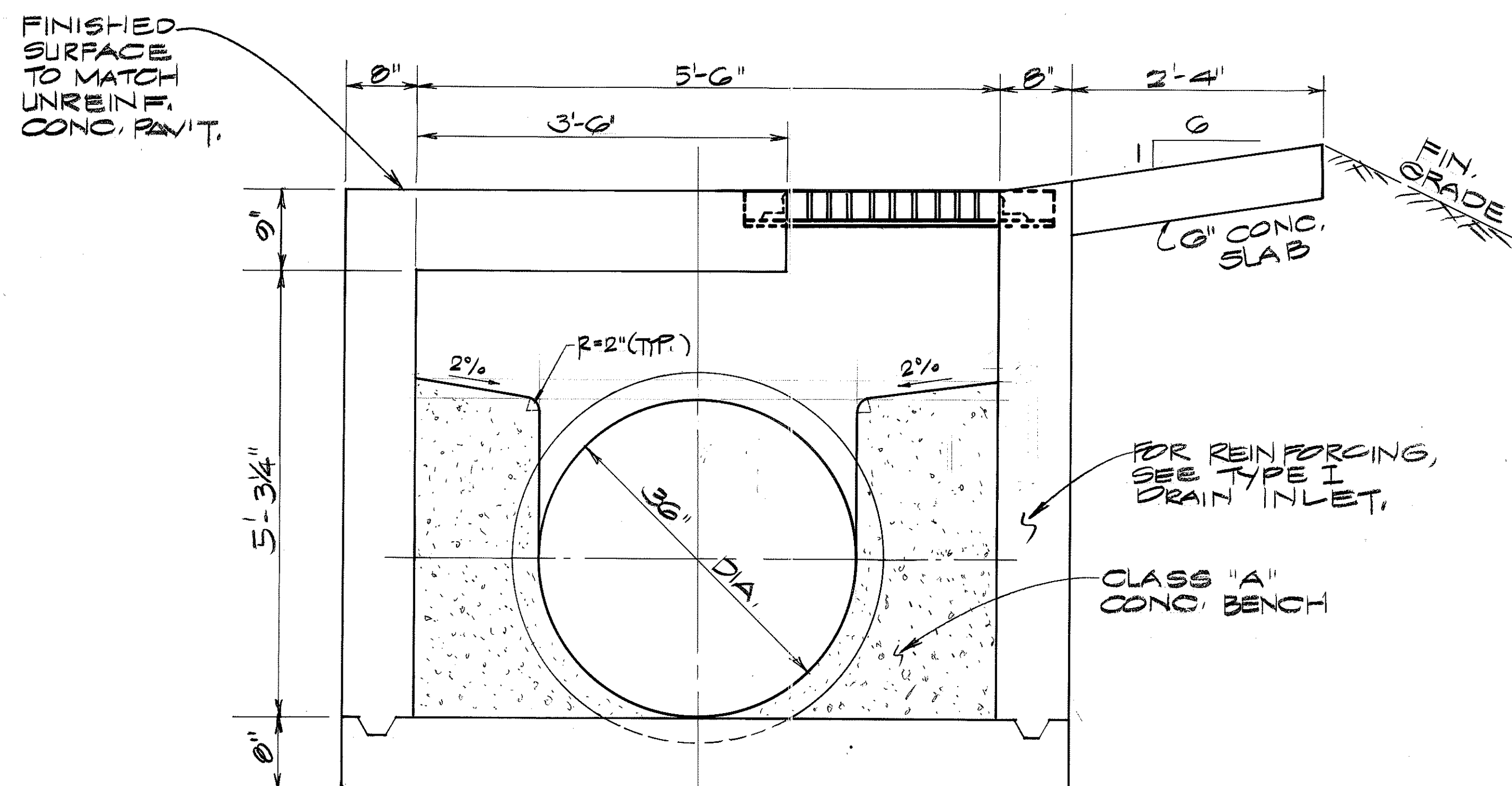
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Richard M. Wai
SIGNATURE DATE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
TYPE I & II DRAIN INLET	
INTERSTATE ROUTE H-3 F.A.I. PROJECT NO. I-H3-1(69) & (70)	
SCALE: AS NOTED	DATE: MARCH, 1992
SHEET No. C33 OF 95 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(69)	1992	58	325



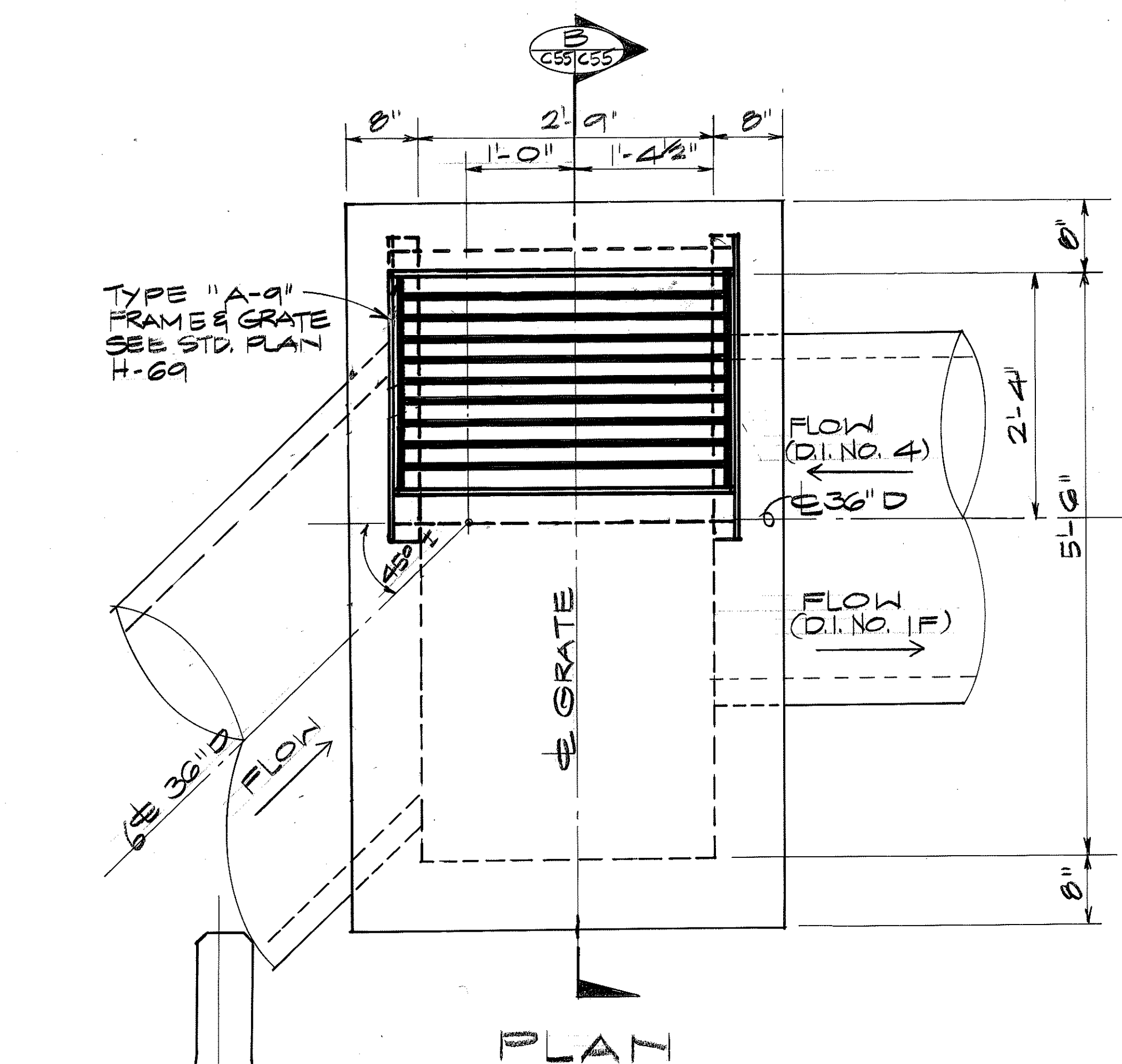
PLAN



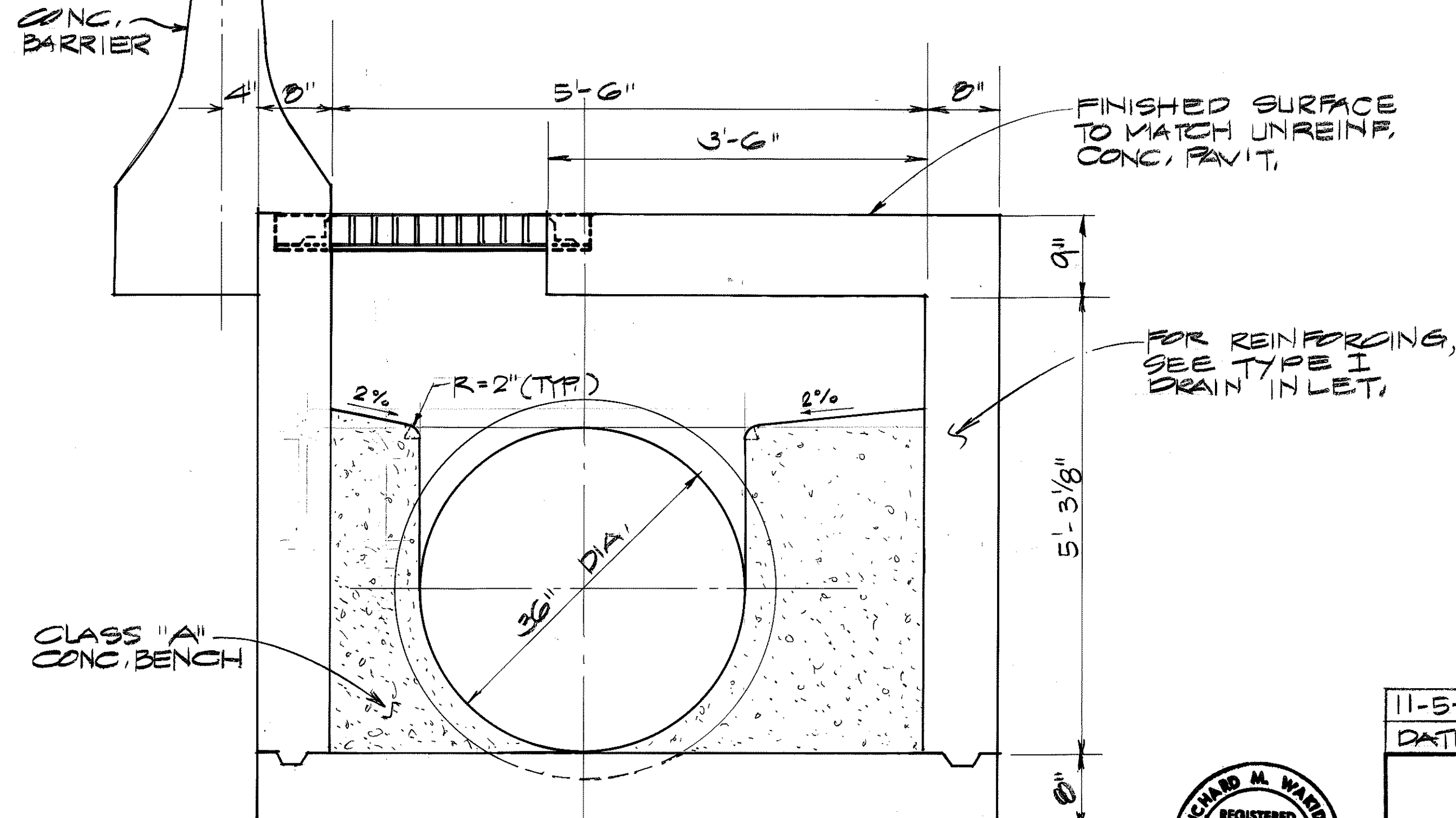
SECTION

TYPE IV DRAIN INLET

SCALE: 1" = 1'-0"



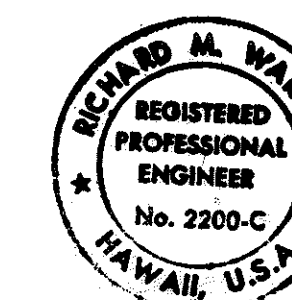
PLAN



SECTION

TYPE V DRAIN INLET

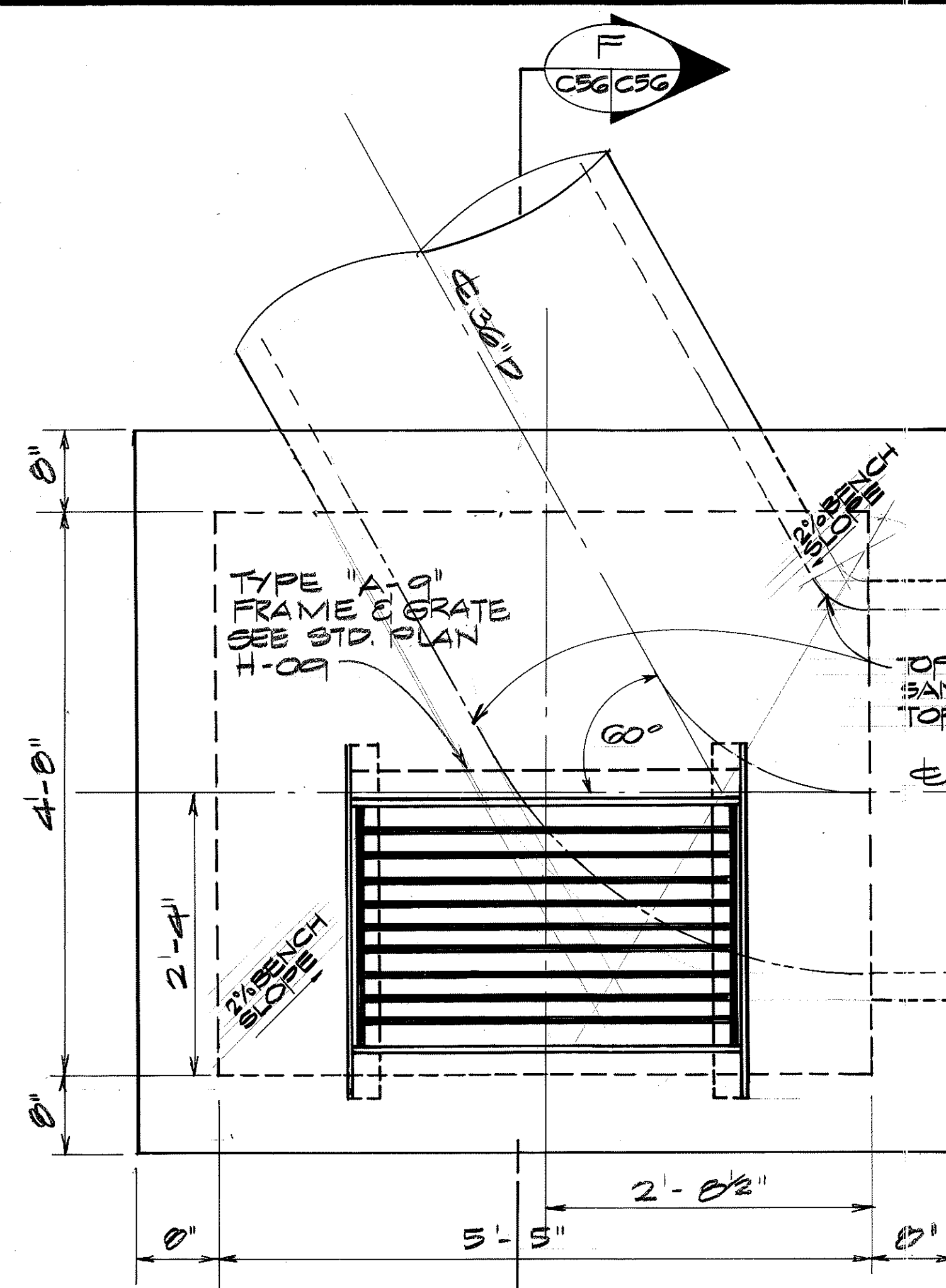
SCALE: 1" = 1'-0"



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SIGNATURE: [Signature] DATE: [Date]

11-5-93	REVISED PIPE ALIGNMENT
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
TYPE IV & V DRAIN INLET	
INTERSTATE ROUTE H-3 F.A.I. PROJECT NO. I-H3-1(69) 8. (70)	
SCALE: AS SHOWN	DATE: MARCH, 1992
SHEET No. C55 OF 95 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(69)	1992	57	925

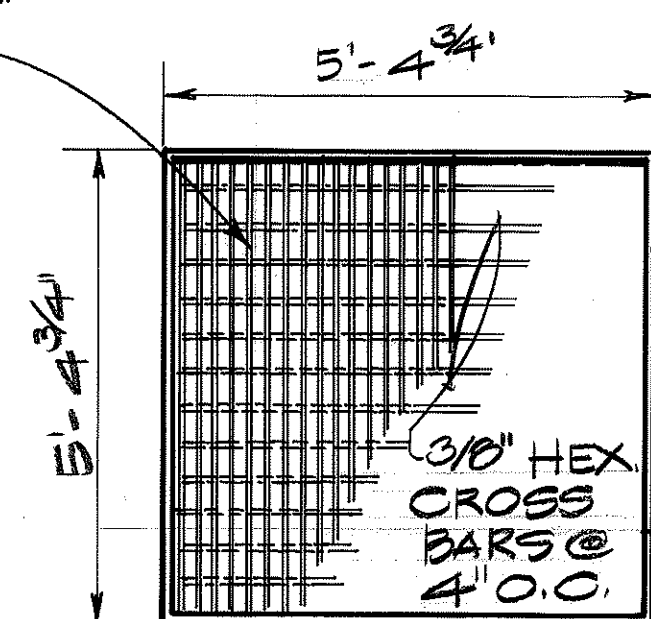


PLAN

TYPE VI DRAIN INLET

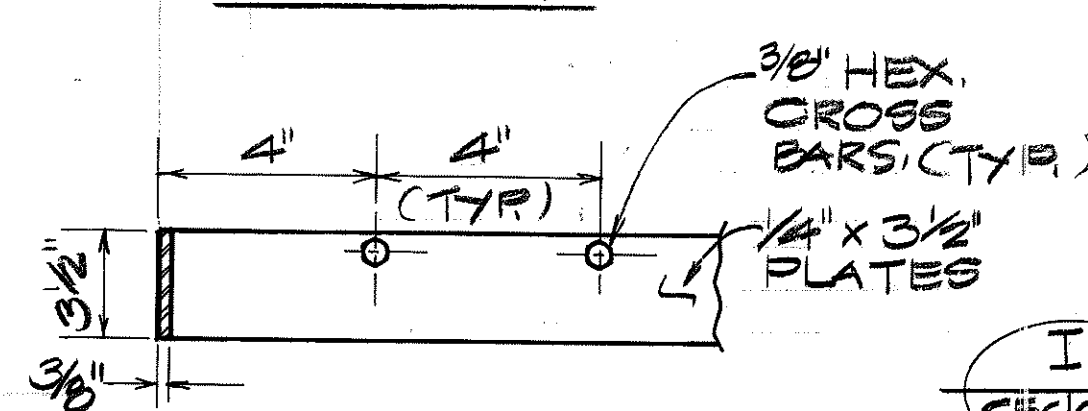
SCALE: 1" = 1'-0"

BEARING PLATES 3/8" x 1/4" @ 13/16" SPACING



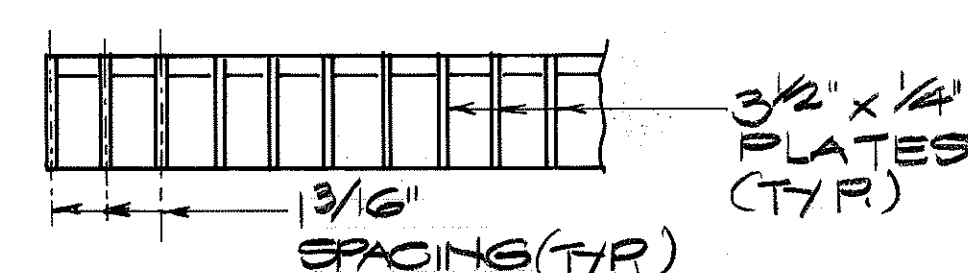
SECTION E

NOTE: BEARING PLATES & CROSS BARS SHALL CONFORM TO ASTM A283, GRADE "C"

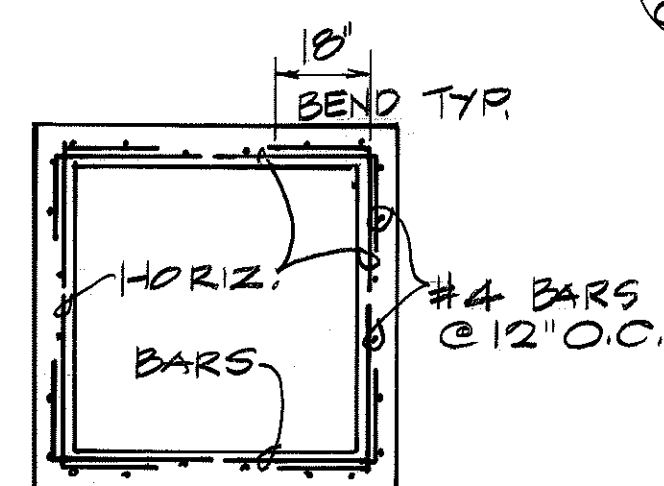


SECTION D

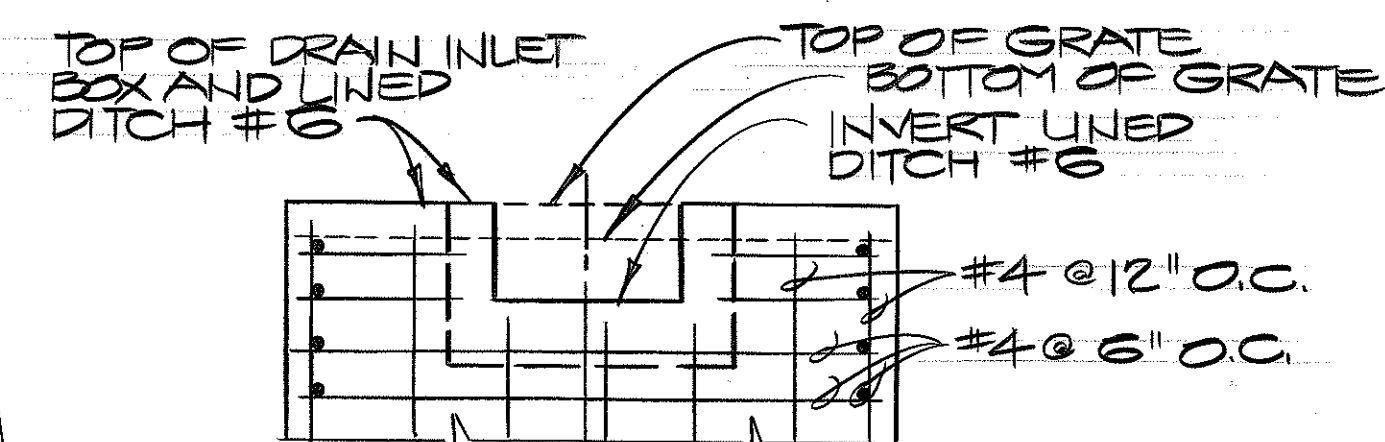
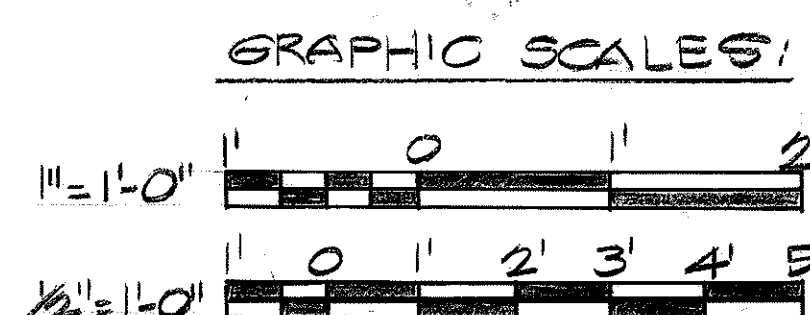
STEEL GRATING NOT TO SCALE



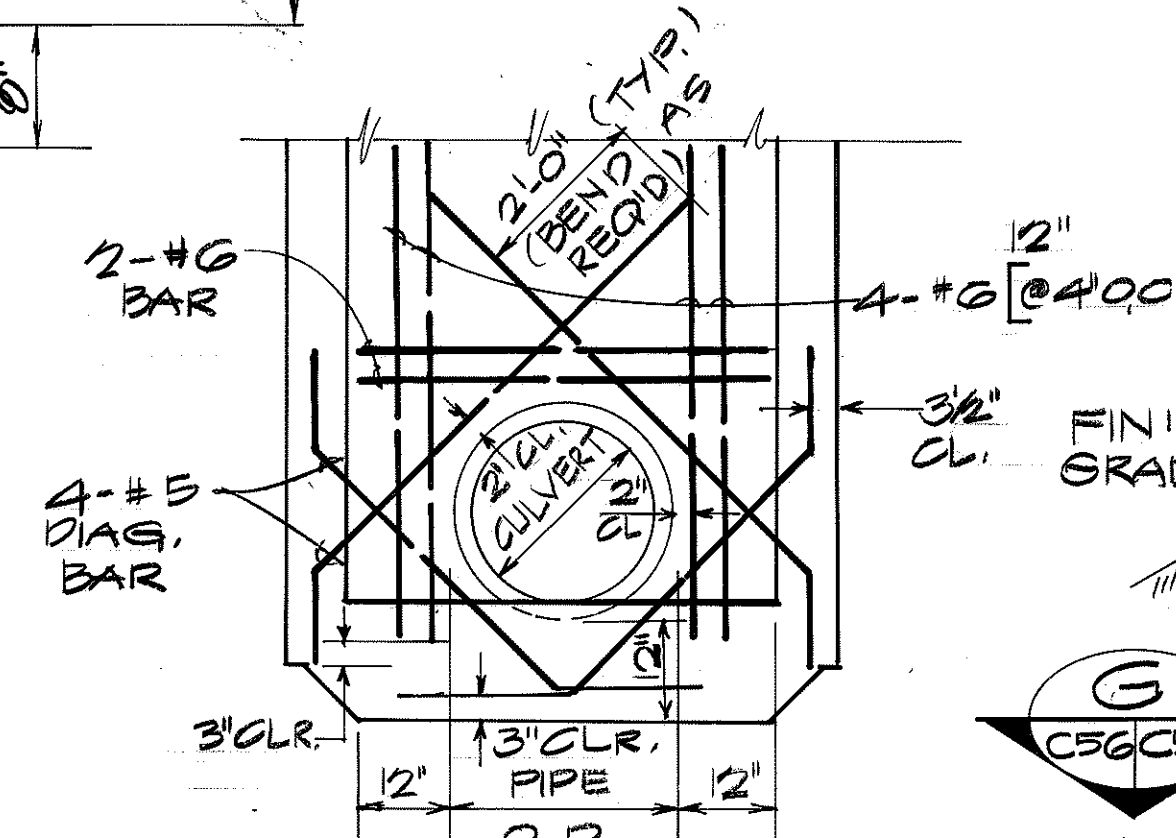
SECTION F



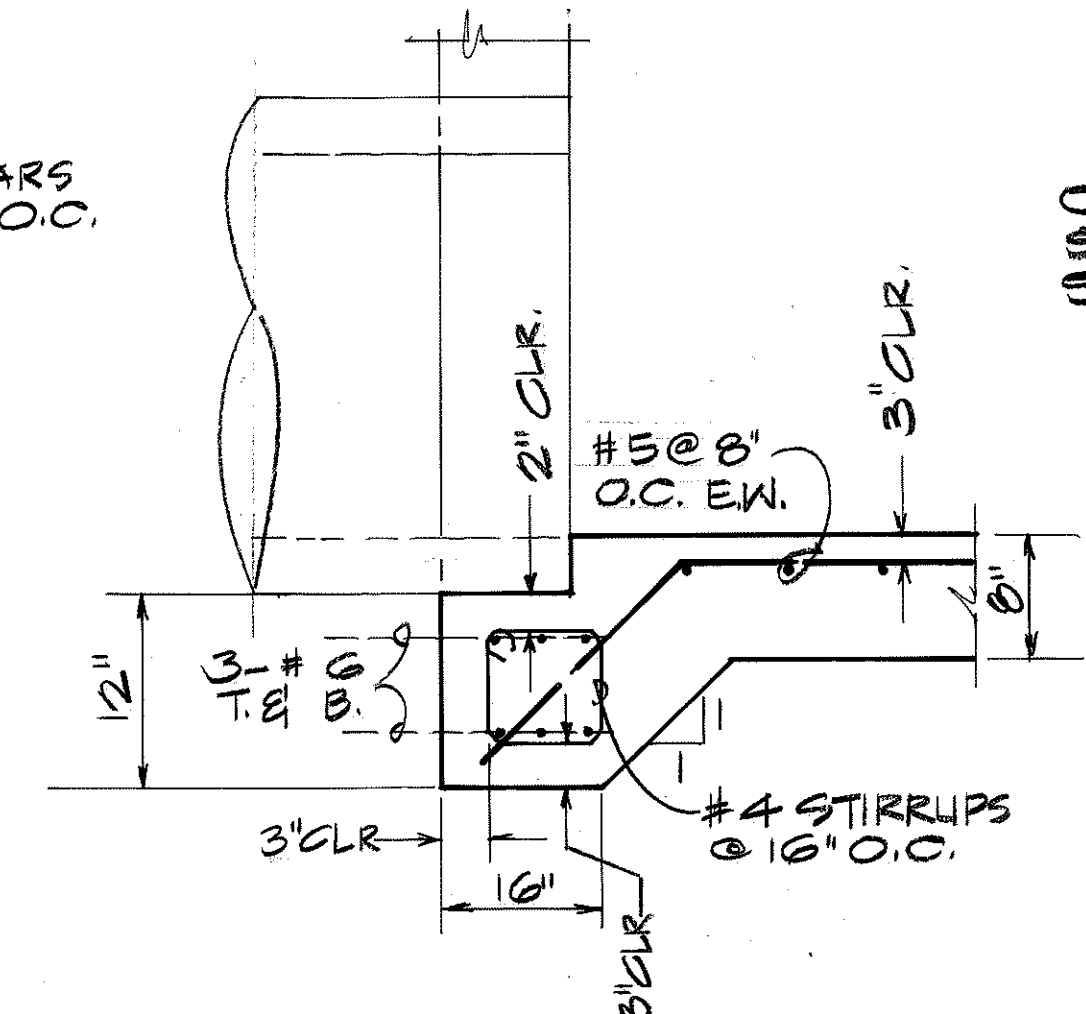
SECTION G



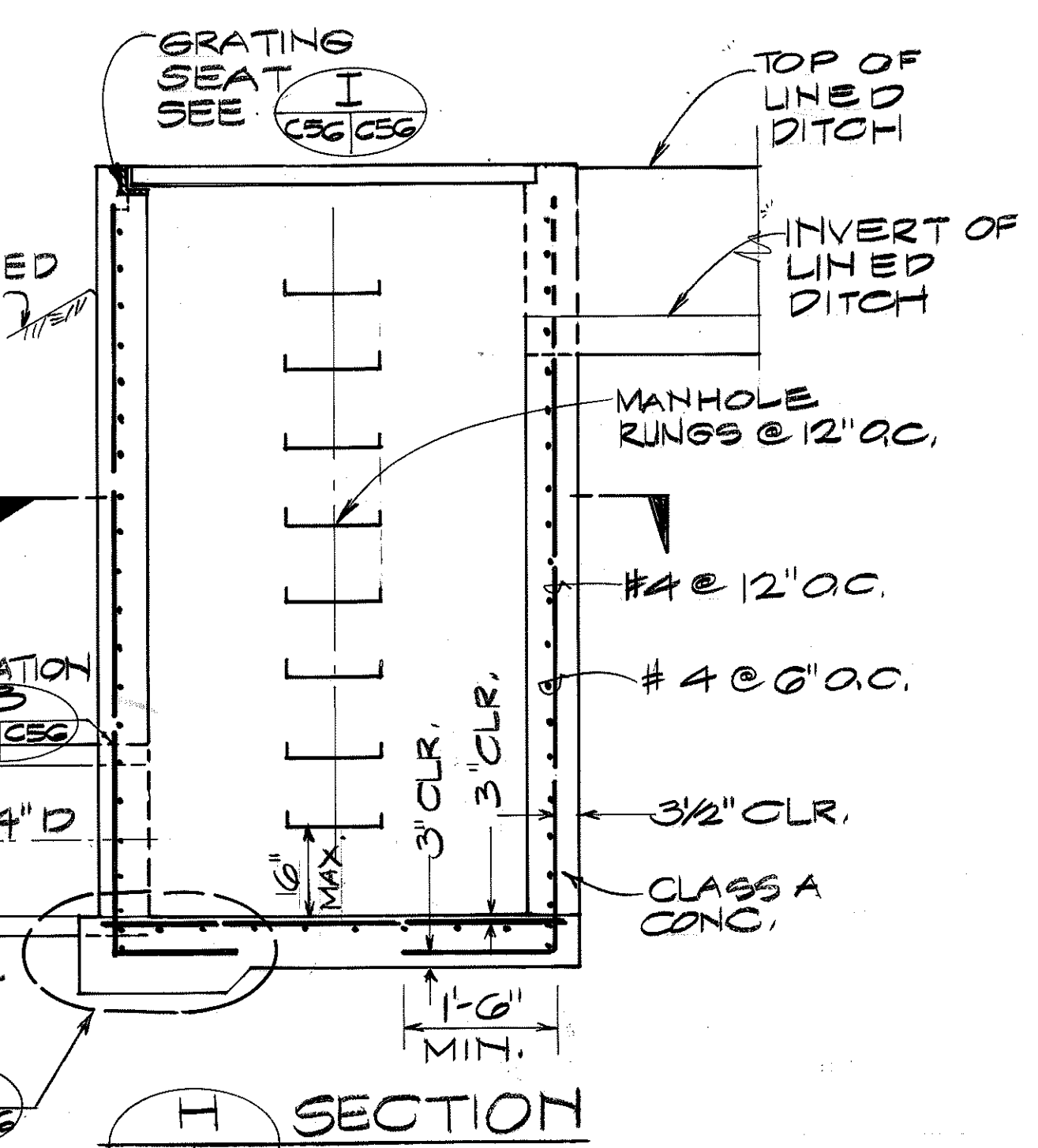
SECTION J



SECTION B



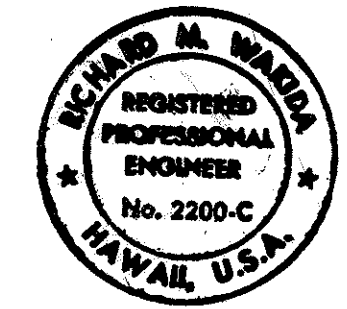
SECTION C



SECTION H

TYPE VII DRAIN INLET

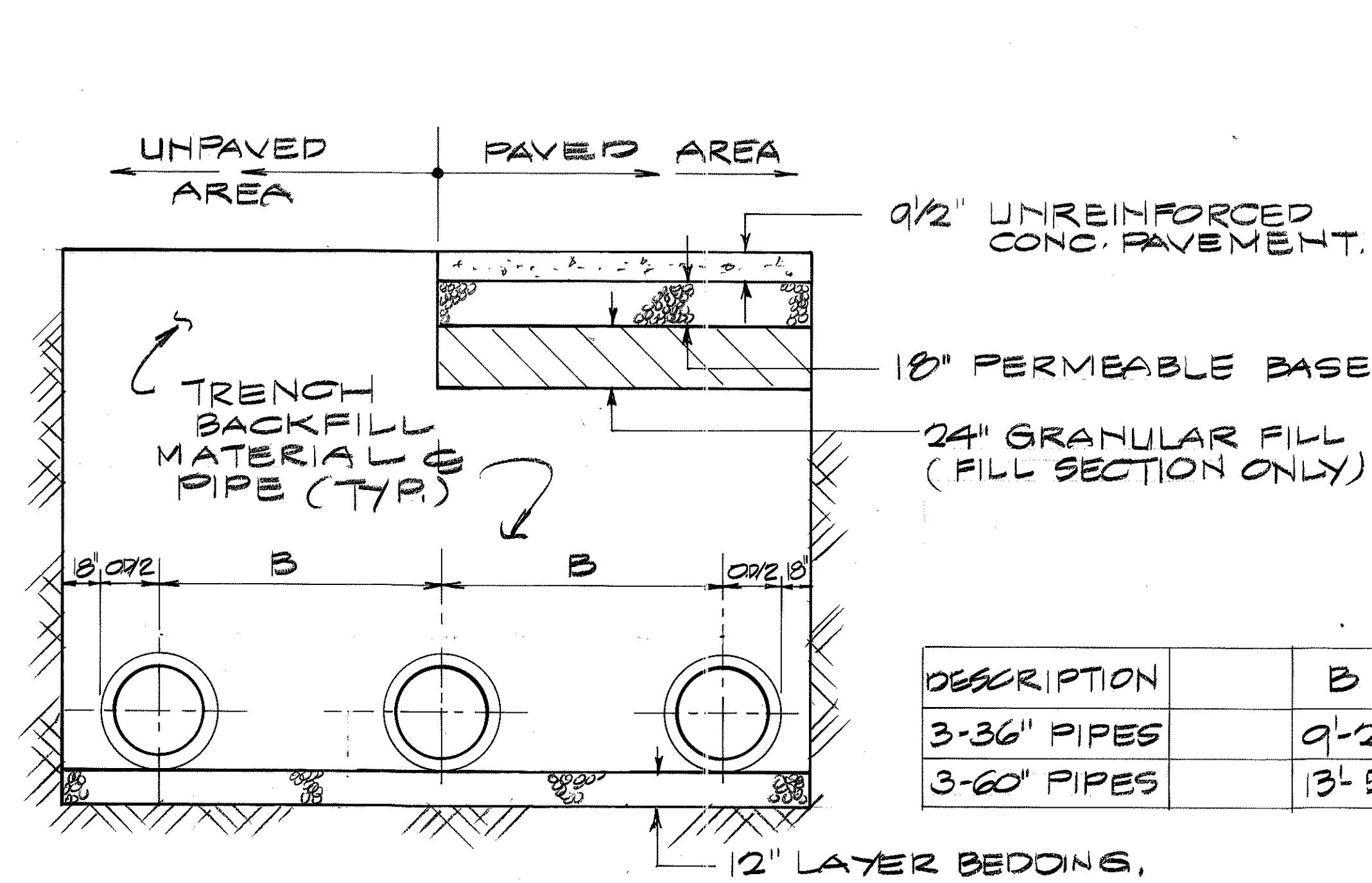
SCALE: 1/2" = 1'-0"



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STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
TYPE VI & VII DRAIN INLET
INTERSTATE ROUTE H-3 F.A.I. PROJECT NO. I-H3-1(69) & (70)
SCALE: AS NOTED DATE: MARCH, 1992
SHEET No. 56 OF 95 SHEETS

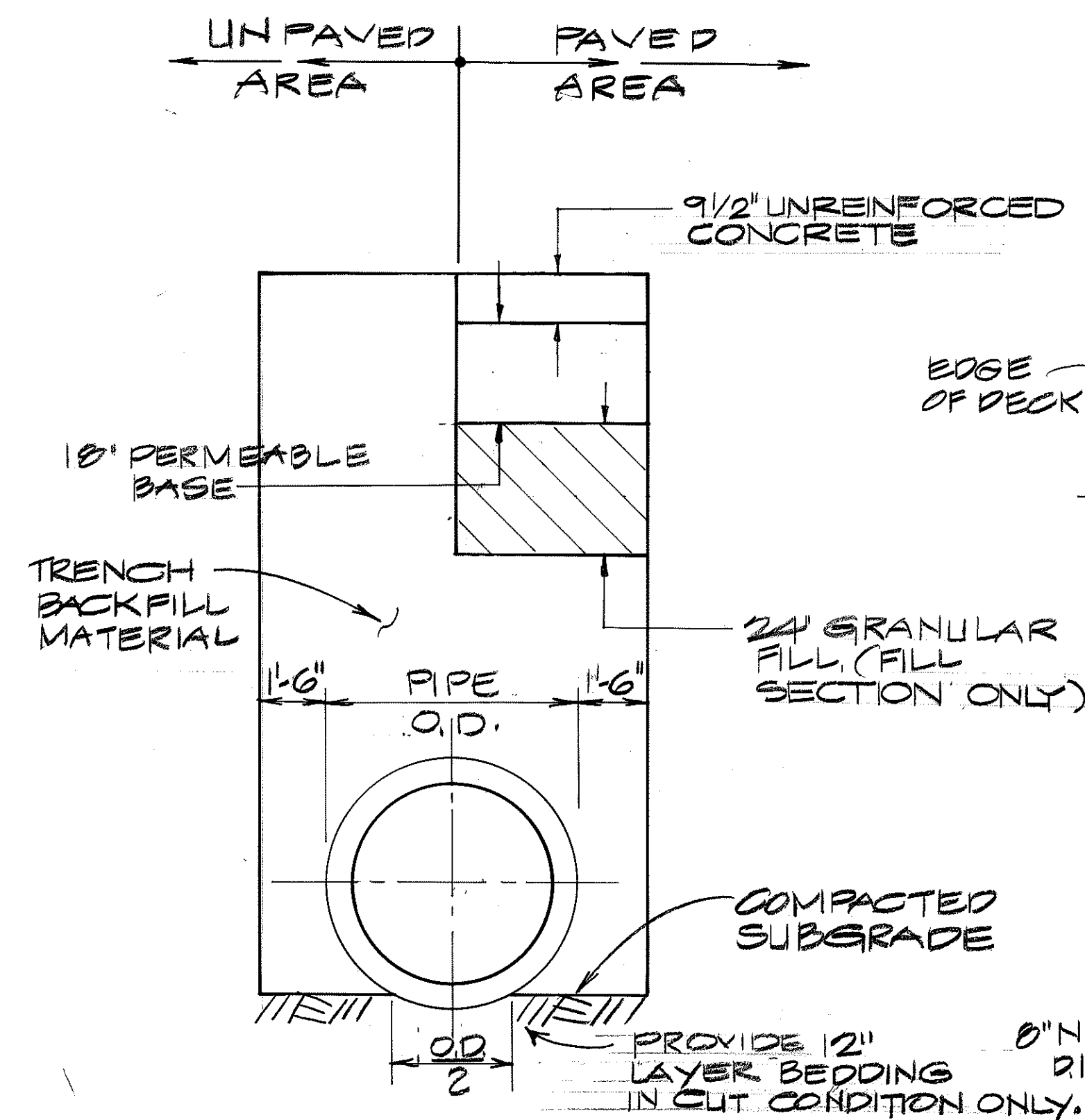
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(69)	1992	60	925



DESCRIPTION	B
3-36" PIPES	9'-2"
3-60" PIPES	13'-5"

NOTE: IF ROCK SUBGRADE IS ENCOUNTERED, PROVIDE 6-INCHES MIN. BED COURSE MATERIAL BENEATH PIPE.

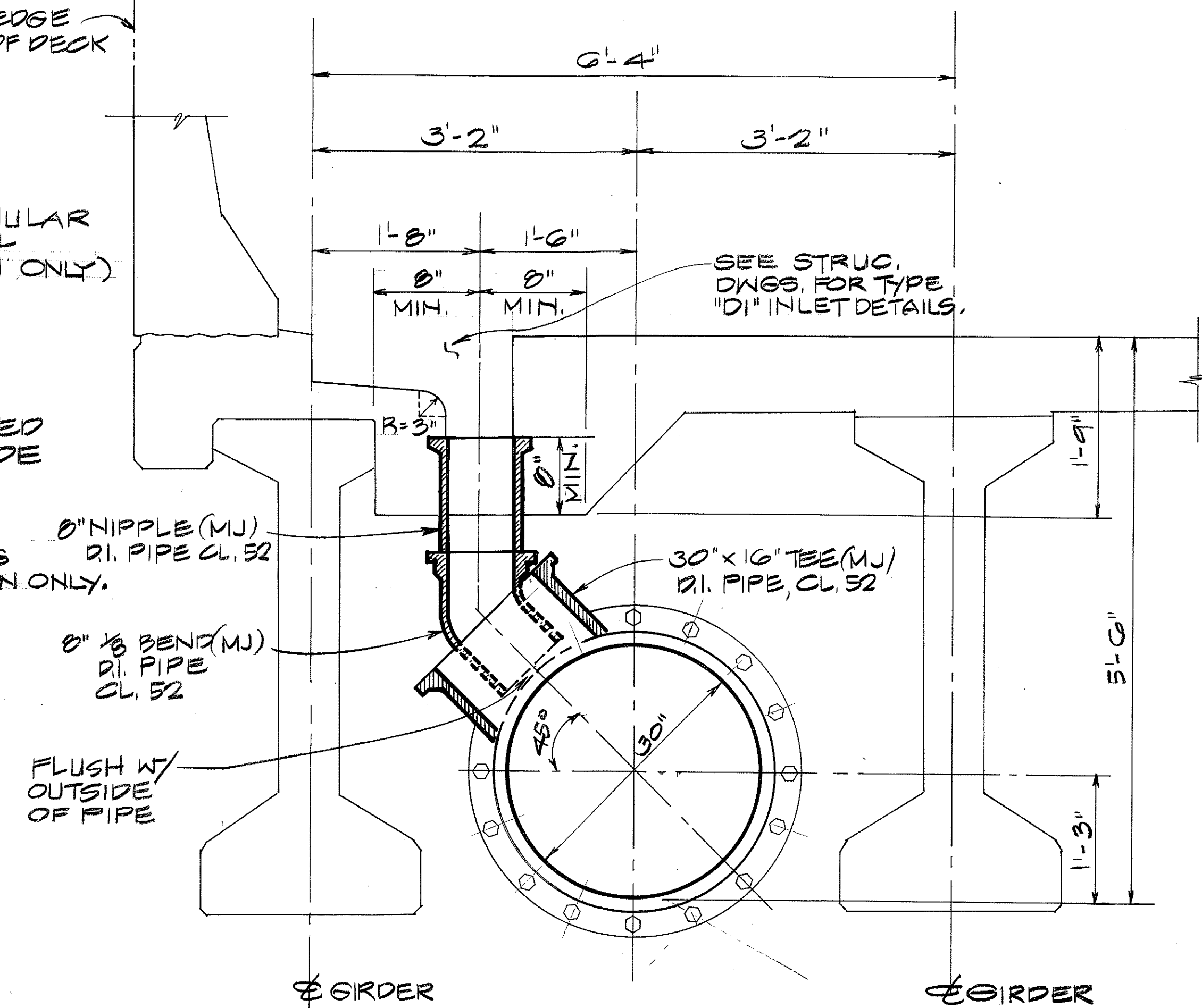
3-PIPES
NOT TO SCALE



SINGLE PIPE
SCALE: 1/2" = 1'-0"

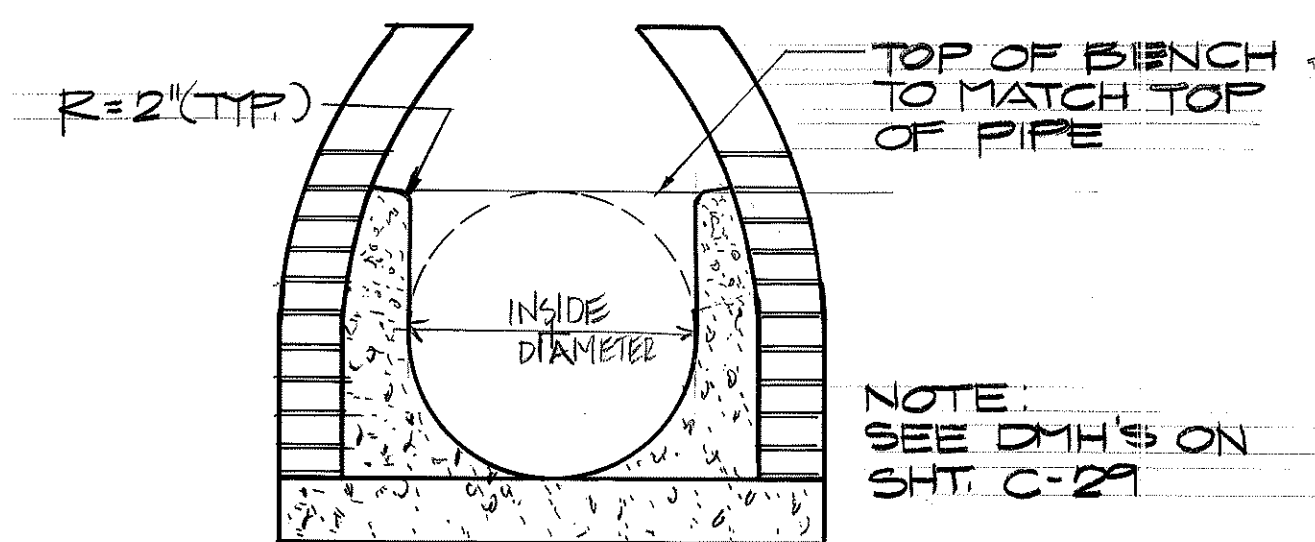
TYPICAL DRAIN TRENCH SECTIONS

SCALE: AS NOTED.



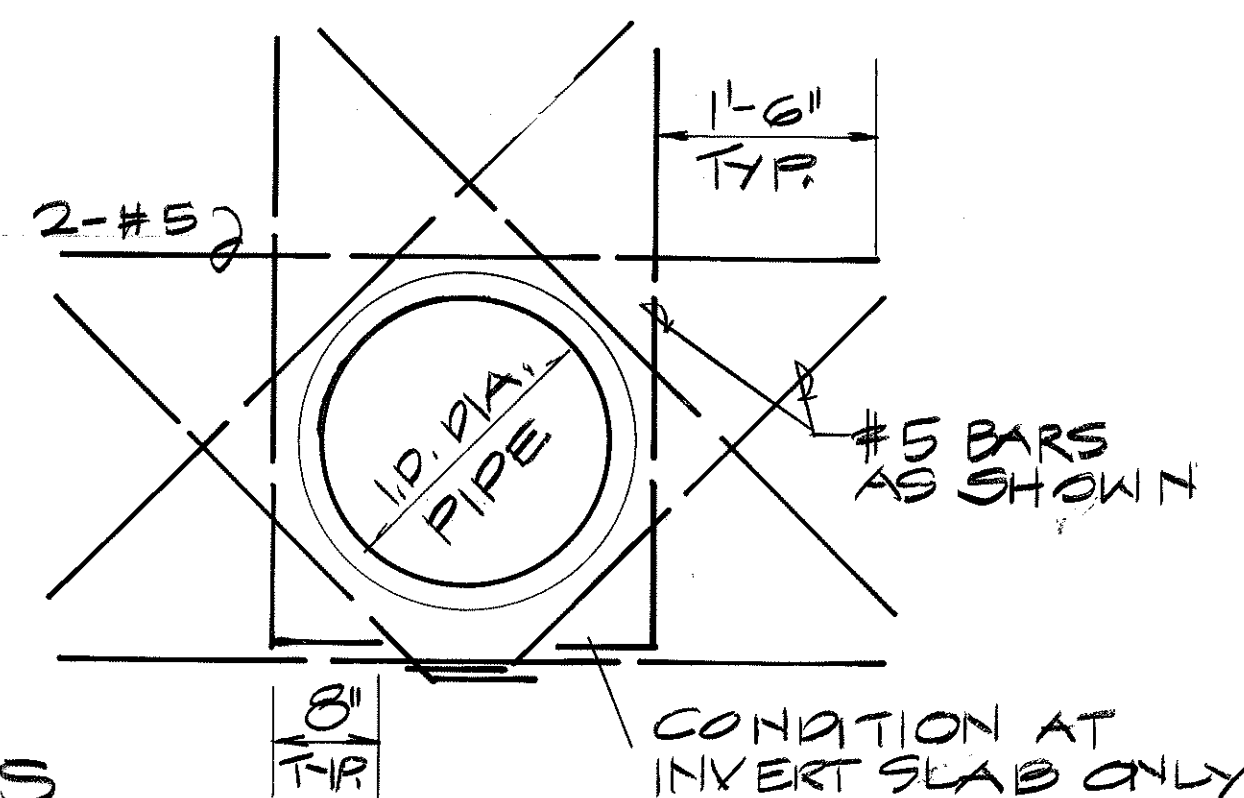
TYPE "D1" DRAIN INLET CONNECTION DETAIL

SCALE: 1" = 1'-0"



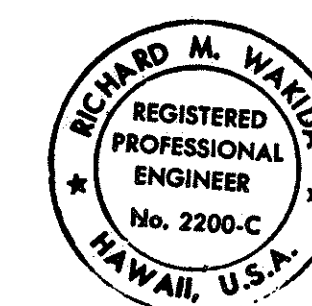
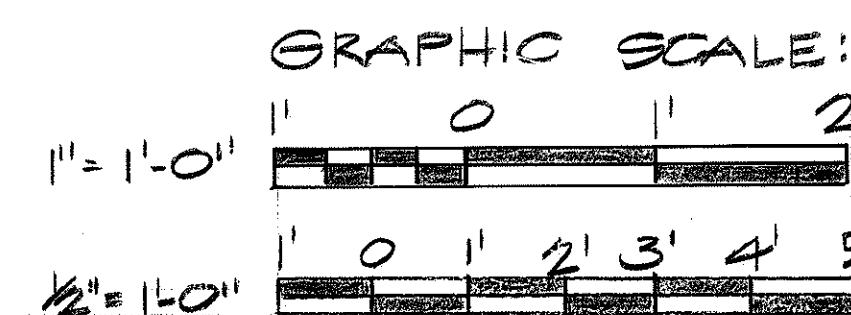
DETAIL-CHANNELIZED INVERT IN DMHS

SCALE: 1/2" = 1'-0"



TYP. REINF. AT PIPE PENETRATION

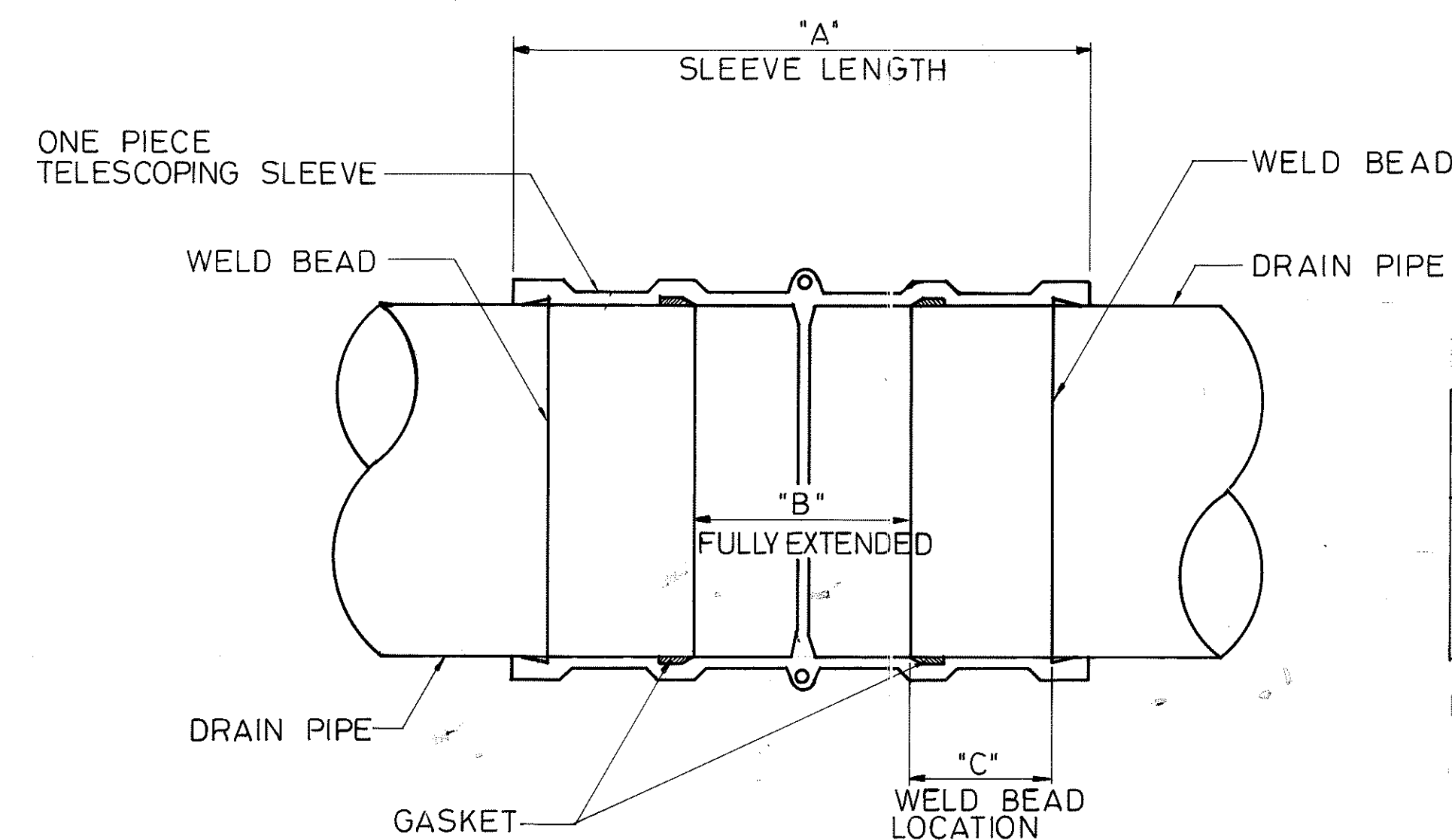
NOT TO SCALE



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STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DRAINAGE DETAILS	
INTERSTATE ROUTE H-3 F.A.I. PROJECT NO. I-H3-1(69) & (70)	
SCALE: AS SHOWN	DATE: MARCH, 1992
SHEET No. 057 OF 95 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I- H3-1(69)	1992	61	225

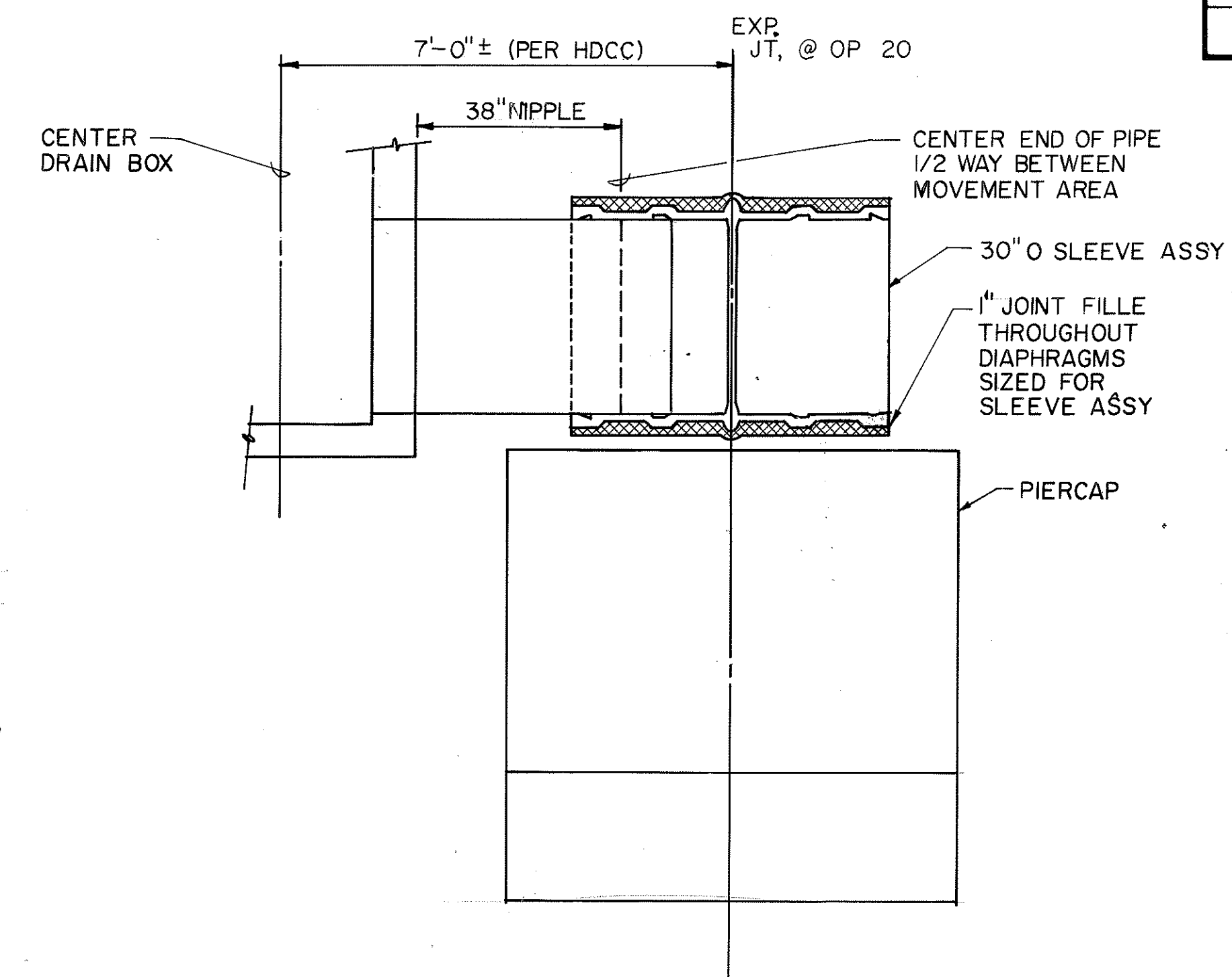


TELESCOPING SLEEVE DIMENSIONS			
SIZE	"A" (IN.)	"B" (IN.)	"C" (IN.)
18"	49.40	17.88	12.56
30"	61.40	22.32	15.25
36"	65.00	23.56	15.31

NOTE: PROVIDE WELD BEAD OR BAR IN ACCORDANCE WITH THE TELESCOPING SLEEVE MANUFACTURER'S SPECIFICATIONS.

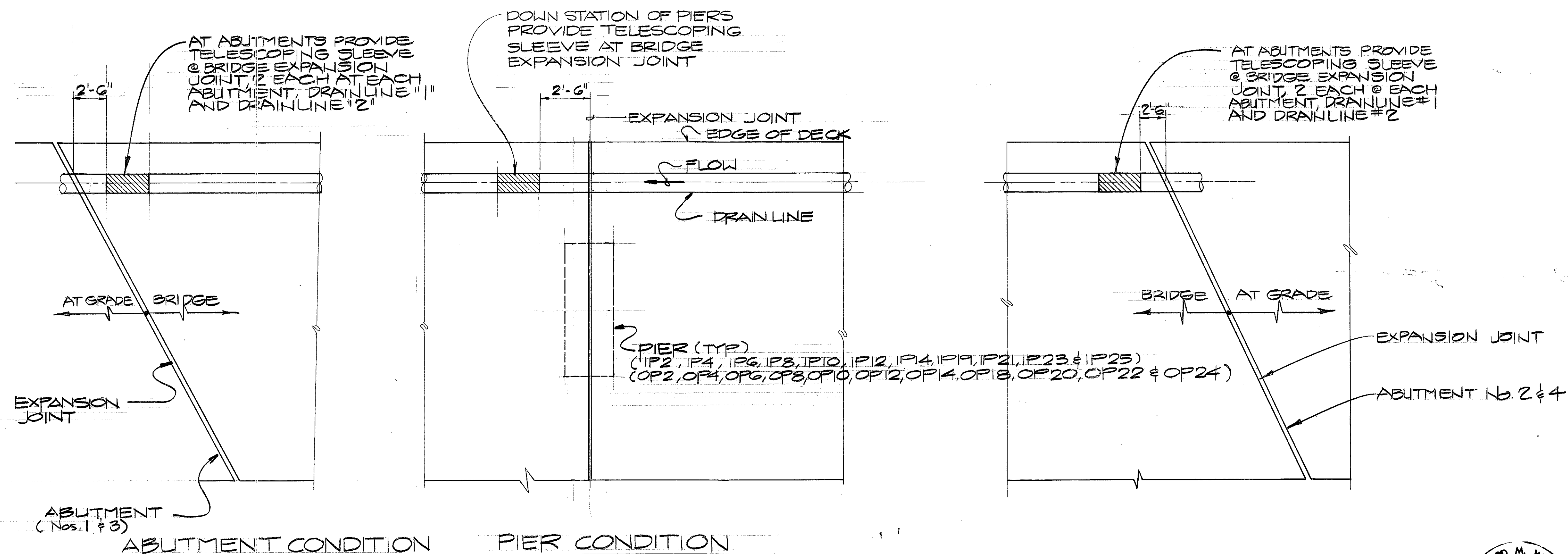
TELESCOPING SLEEVE AT BRIDGE EXPANSION JOINTS

NOT TO SCALE



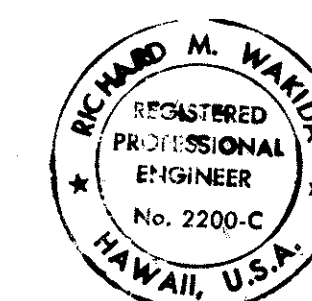
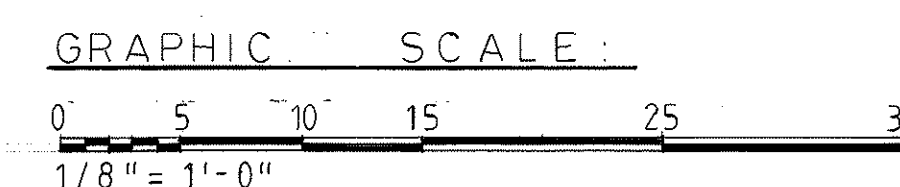
TELESCOPING SLEEVE @ OP-20

NOT TO SCALE



TELESCOPING SLEEVE LOCATION PLAN

SCALE: 1/8" = 1'-0"

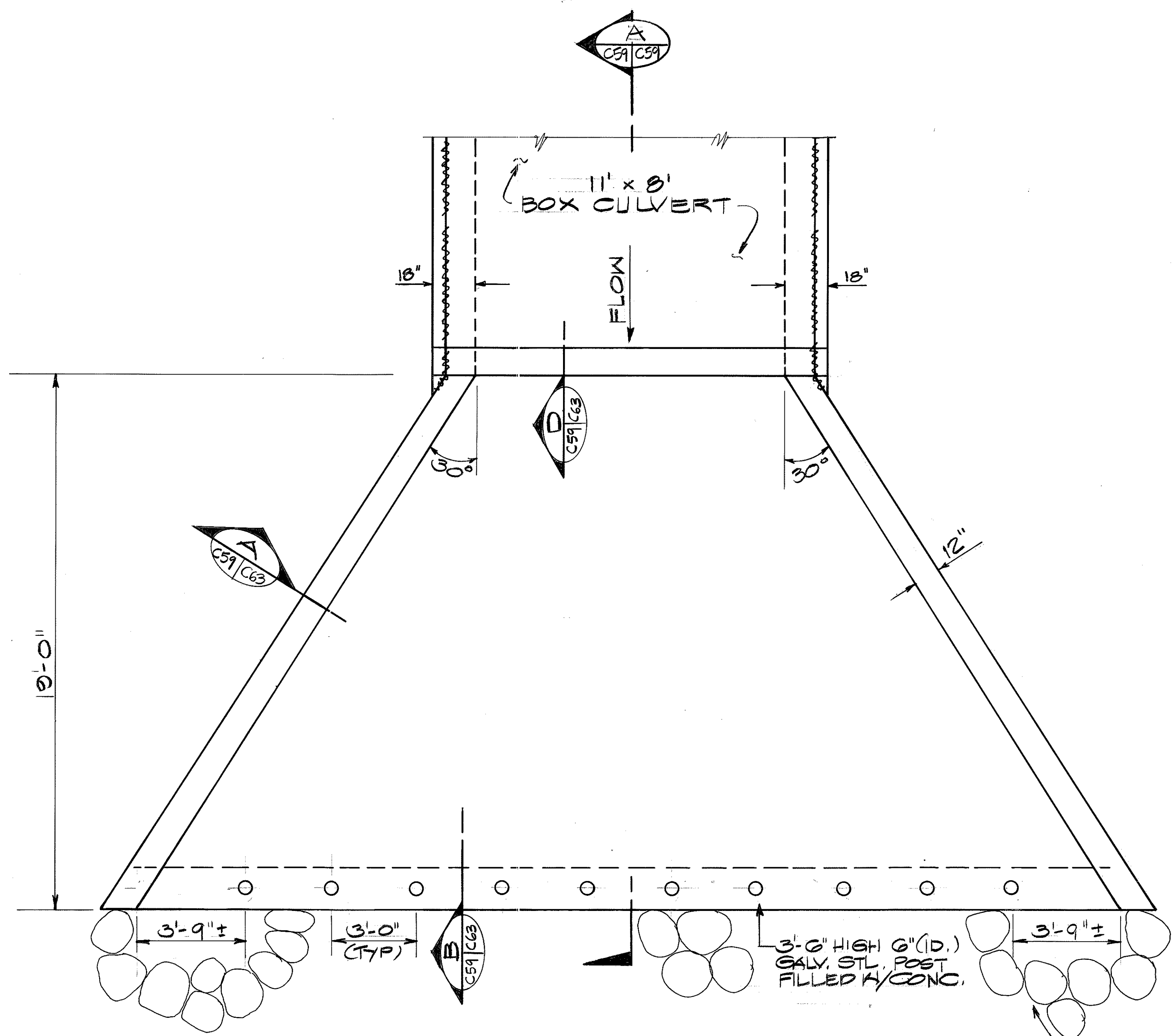


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 Richard M. Warda
 SIGNATURE DATE

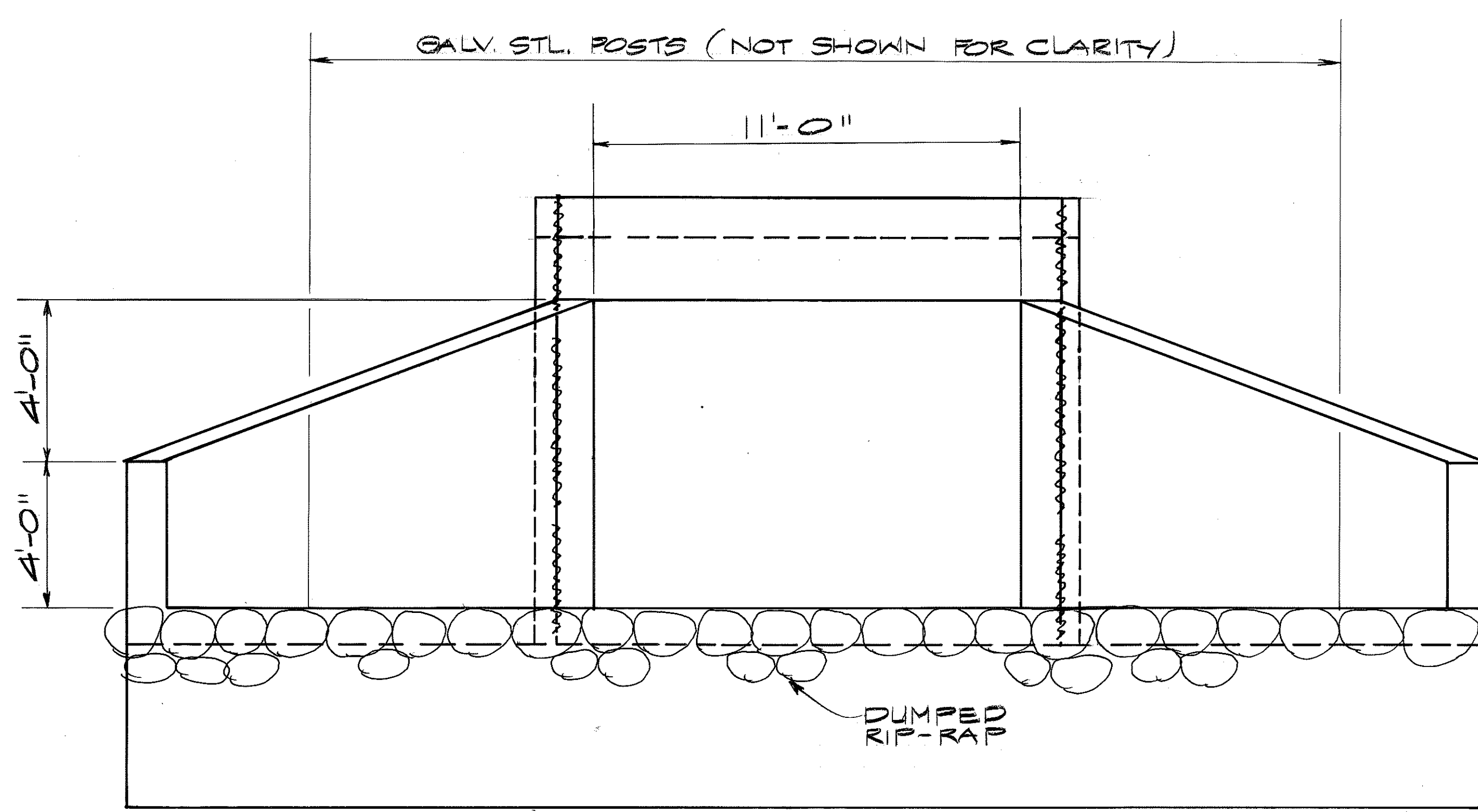
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DRAINAGE DETAILS	
INTERSTATE ROUTE H-3 F.A.I. PROJECT NO. I-H3-1(69) & (70)	
SCALE: AS SHOWN	DATE: MARCH, 1992
SHEET No. 058 OF 95 SHEETS	

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

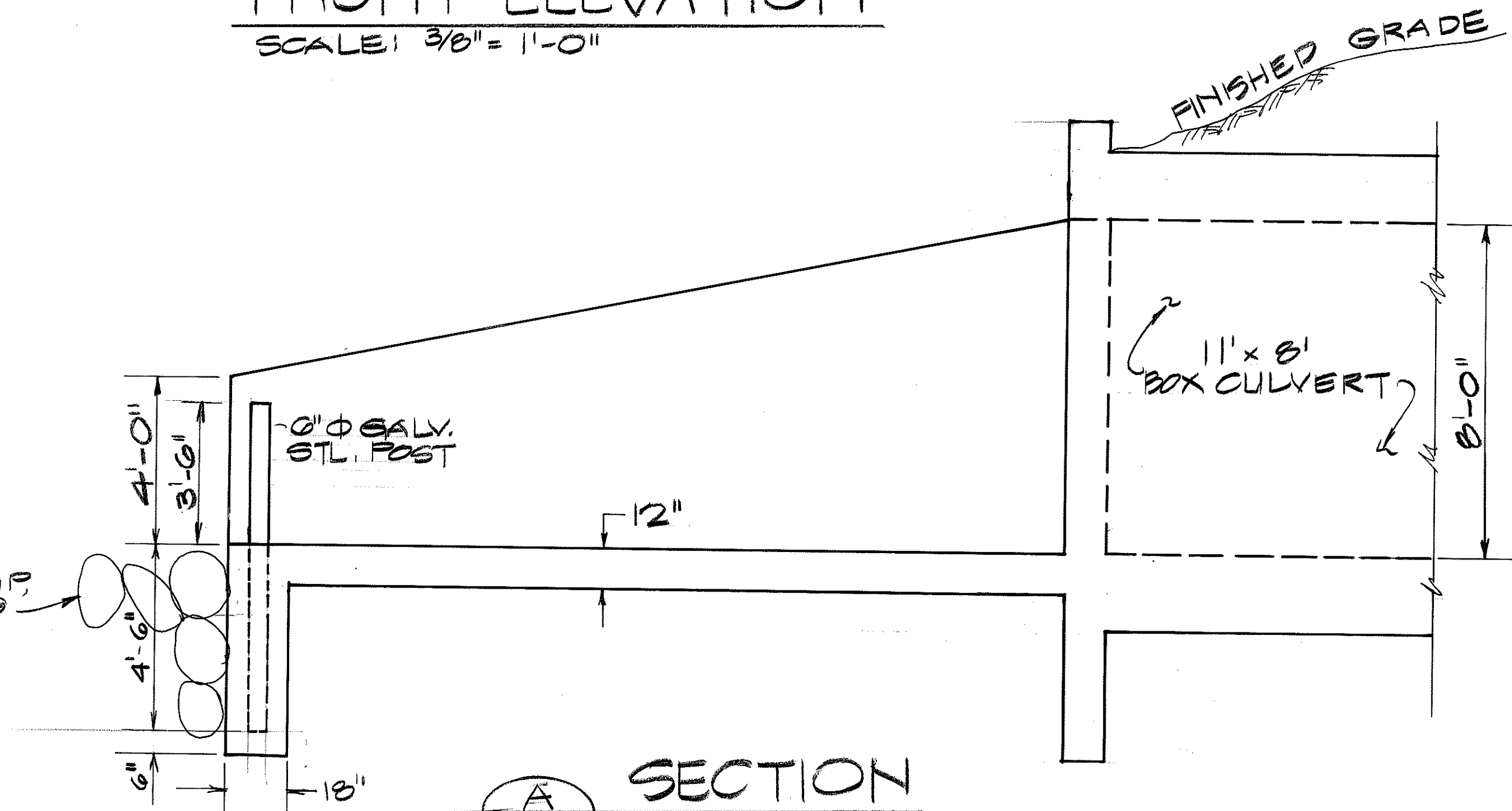
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(69)	1992	62	325



PLAN
SCALE: 3/8" = 1'-0"



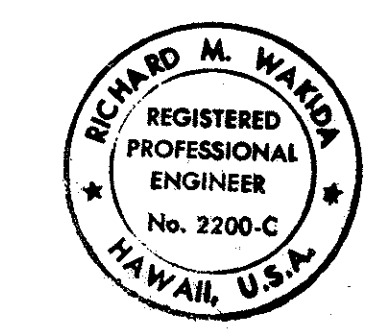
FRONT ELEVATION
SCALE: 3/8" = 1'-0"



SECTION
SCALE: 3/8" = 1'-0"

INLET STRUCTURE, CULVERT 1
SCALE: AS NOTED

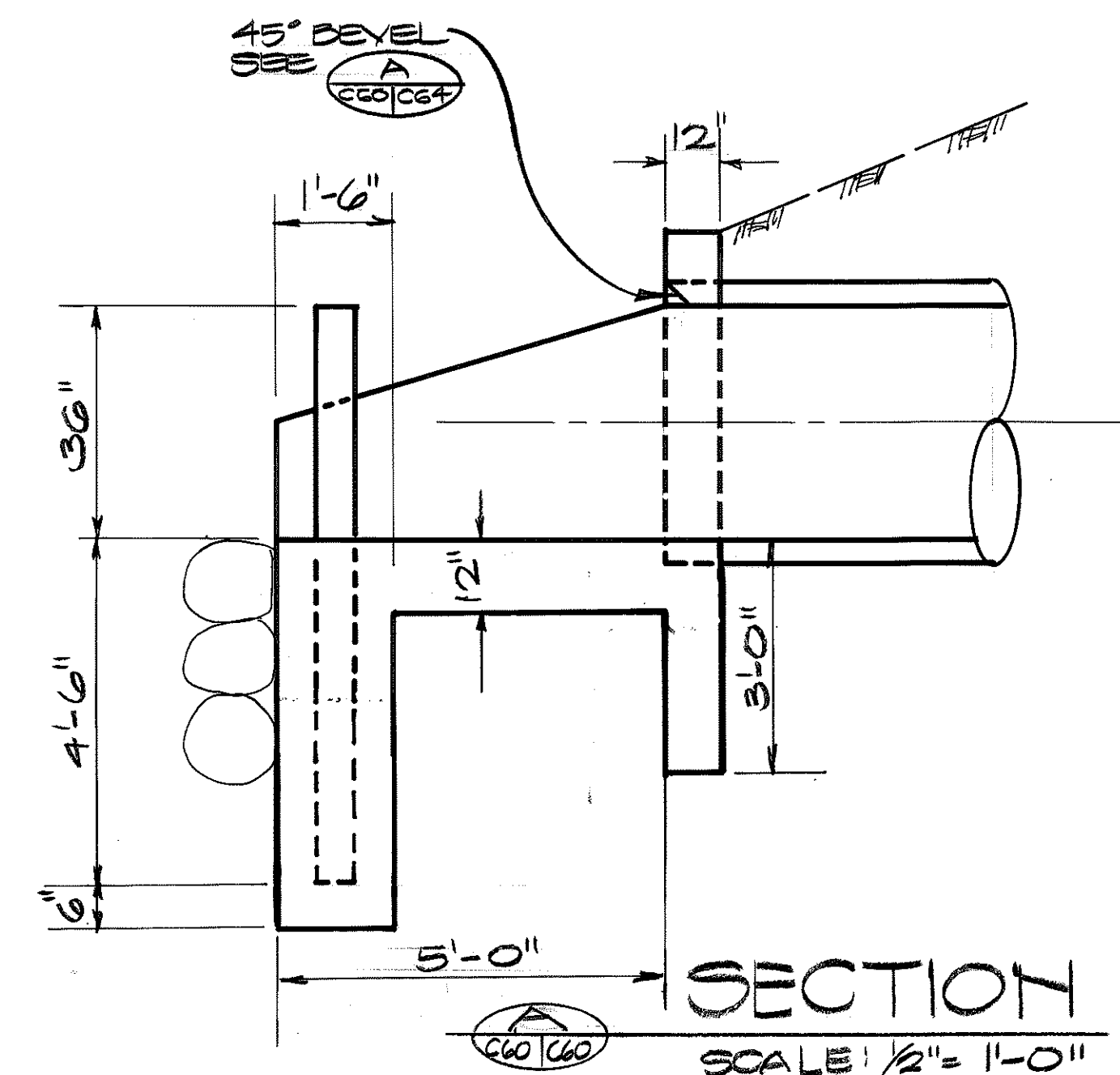
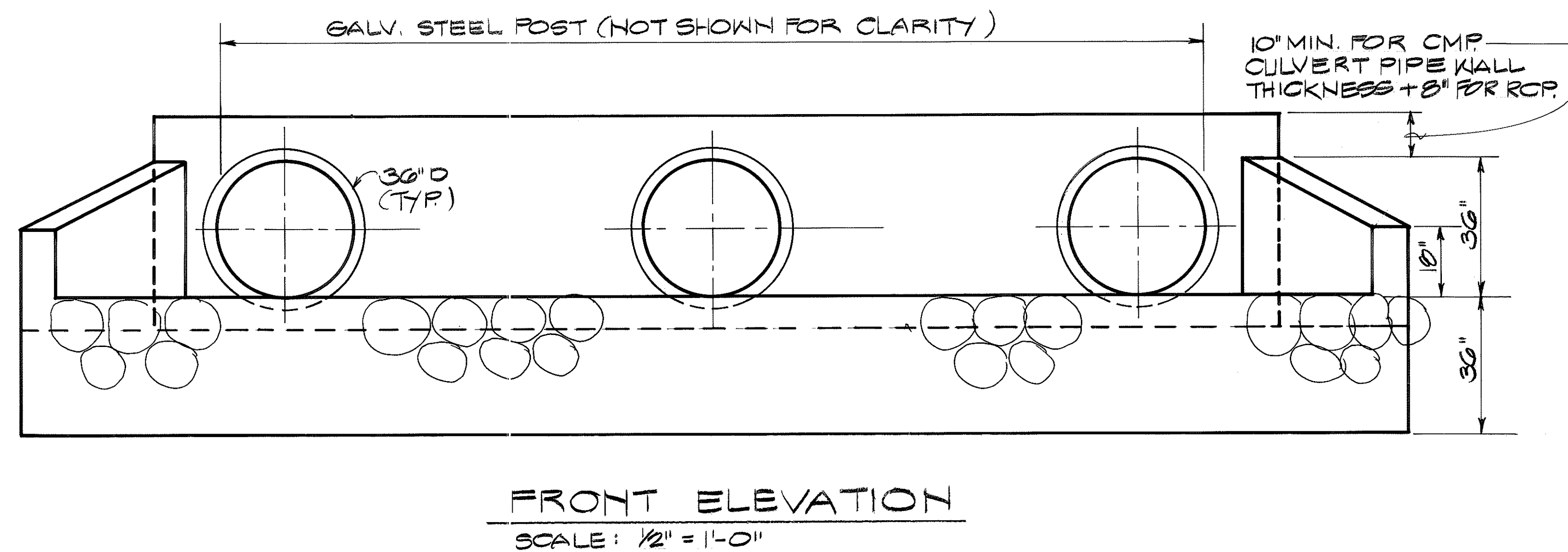
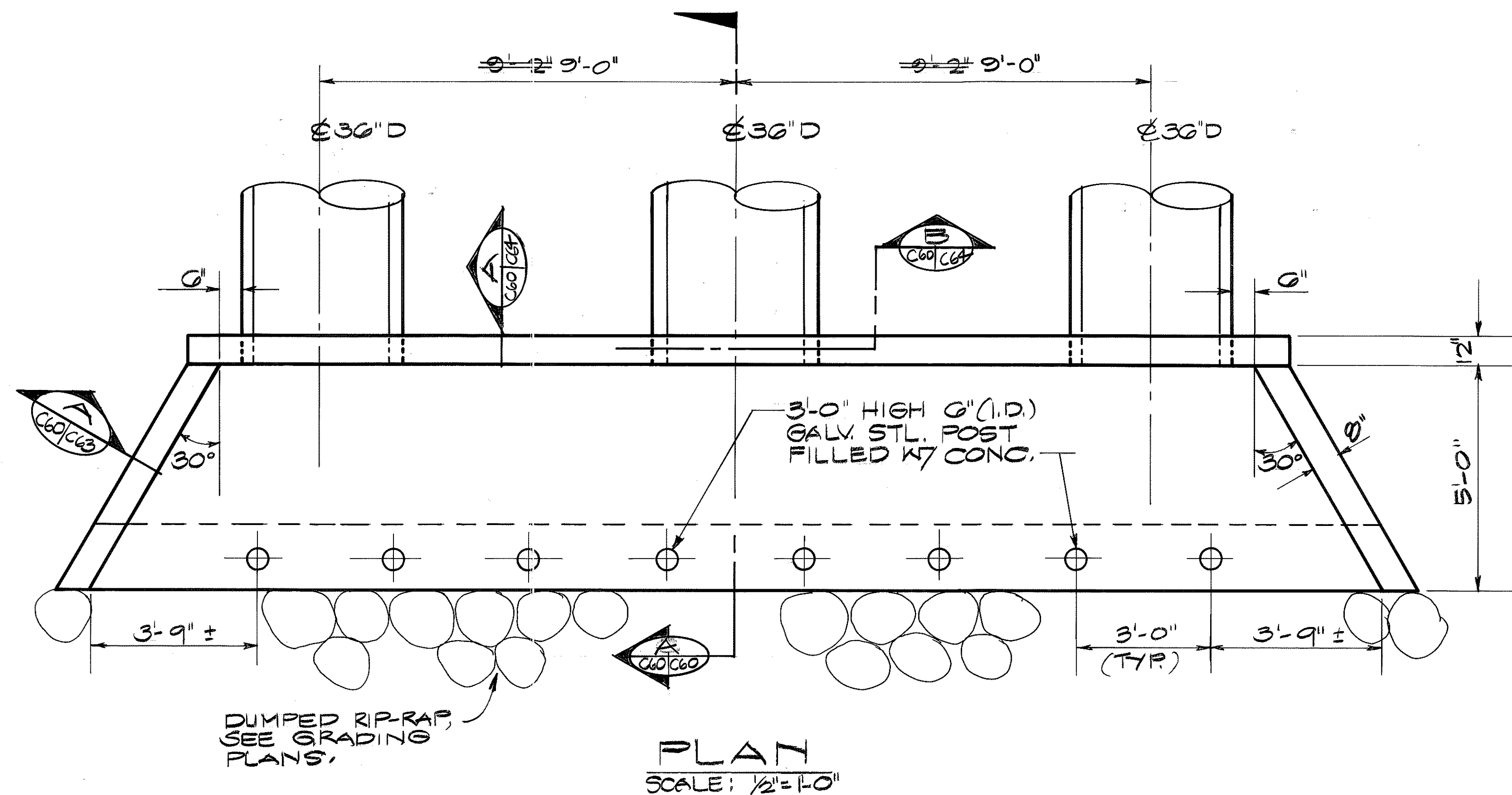
NOTE: FOR REINFORCING,
SEE SCHEDULES:
"C" & "D" SHT. C-63



STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
CULVERT 1 INLET STRUCTURE	
INTERSTATE ROUTE H-3 F.A.I. PROJECT NO. I-H3-1(69) & (70)	
SCALE: AS NOTED	DATE: MARCH, 1992
SHEET No. C62 OF 95 SHEETS	

ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I - H3-1(69)	1992	63	25

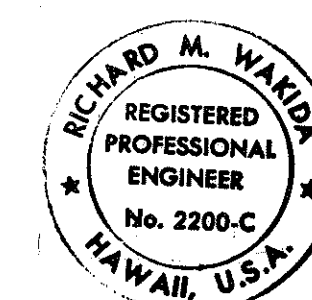


NOTE: FOR REINFORCING, SEE SCHEDULE 'C' SHT. C-63

INLET STRUCTURE CULVERT 2

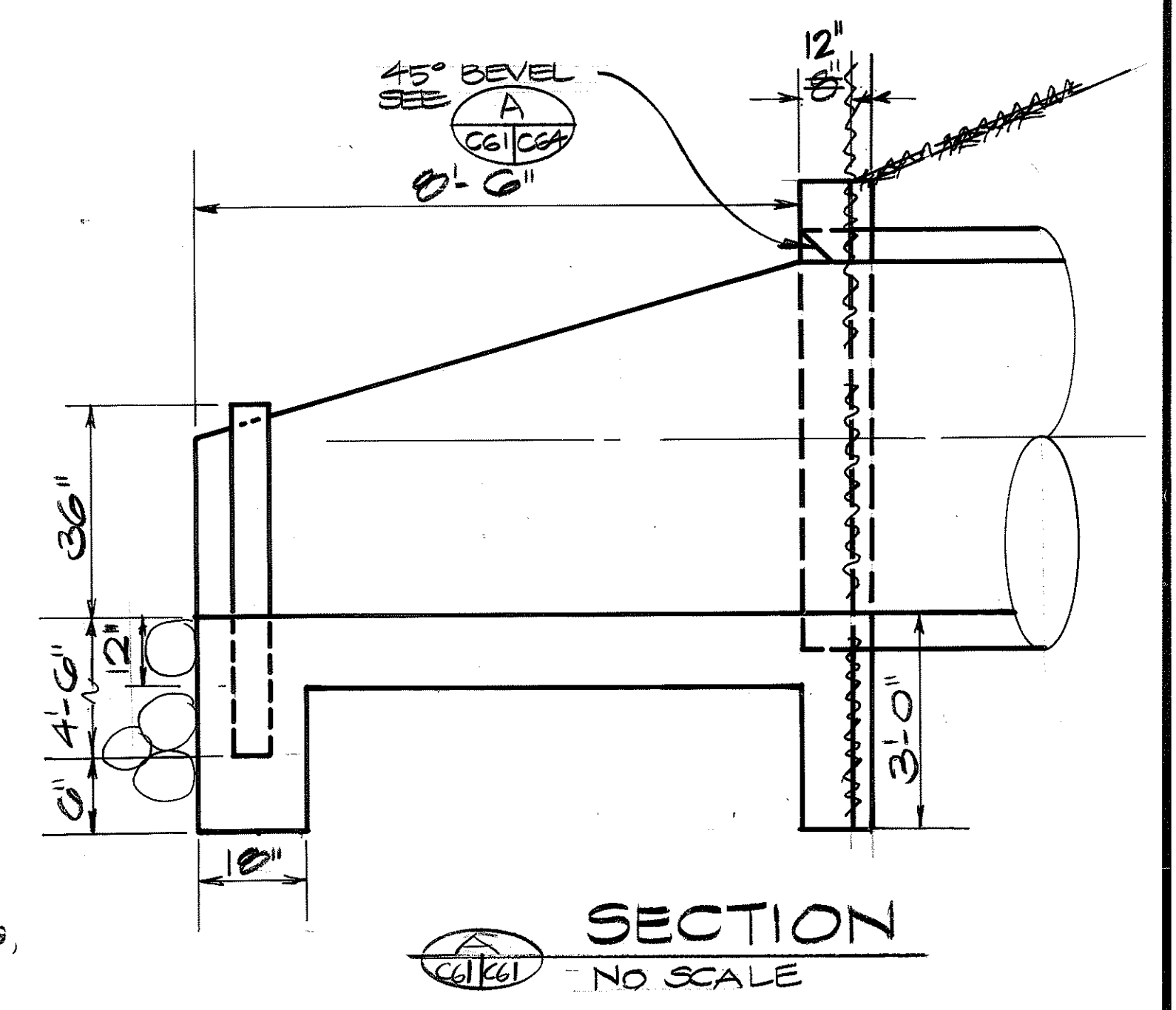
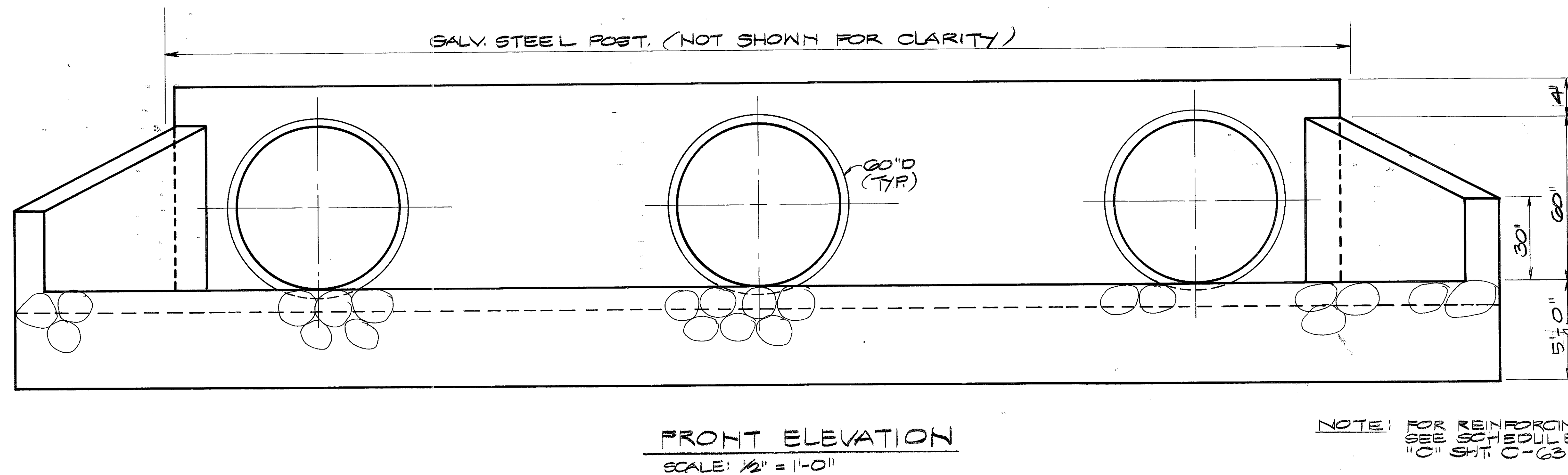
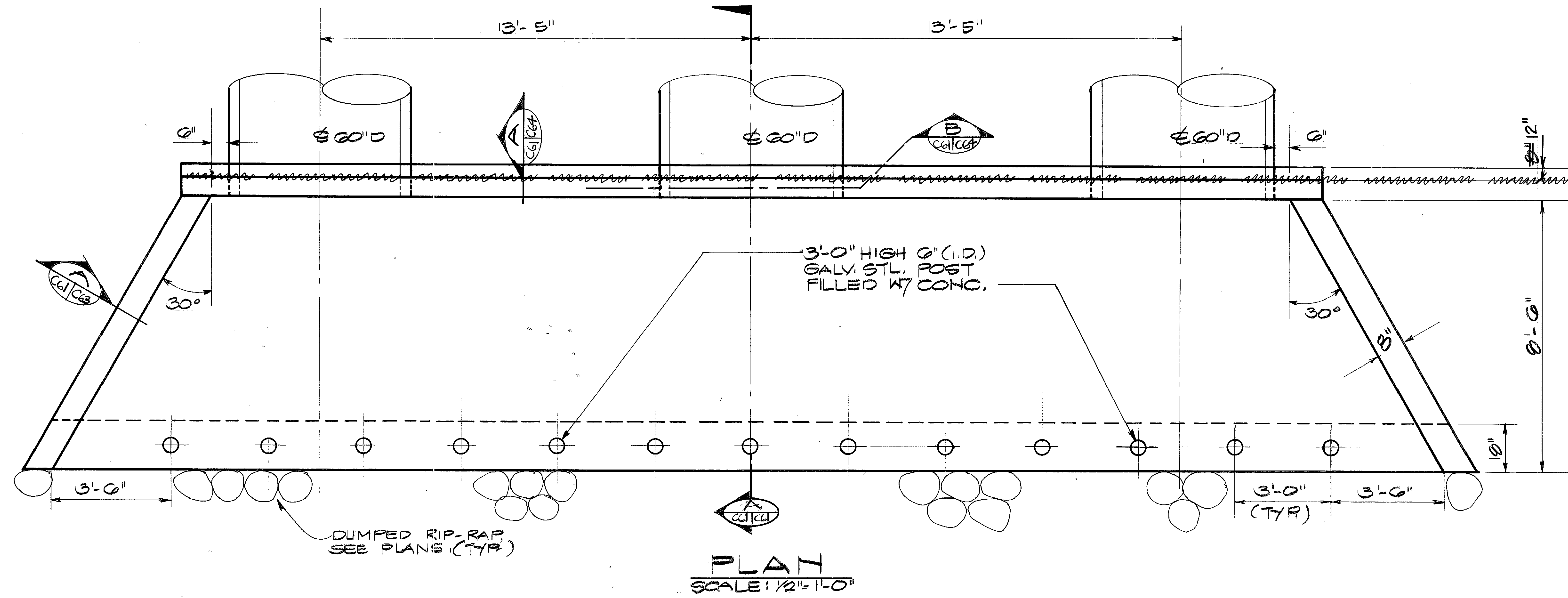
SCALE: AS NOTED.

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

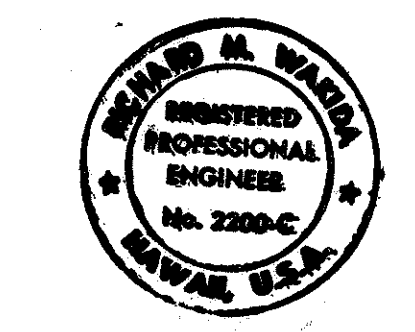


STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
CULVERT 2 INLET STRUCTURE	
INTERSTATE ROUTE H-3 F.A.I. PROJECT NO. I-H3-1(69) & (70)	
SCALE: AS NOTED	DATE: MARCH, 1992
SHEET No. C60 OF 95 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(69)	1992	64	925



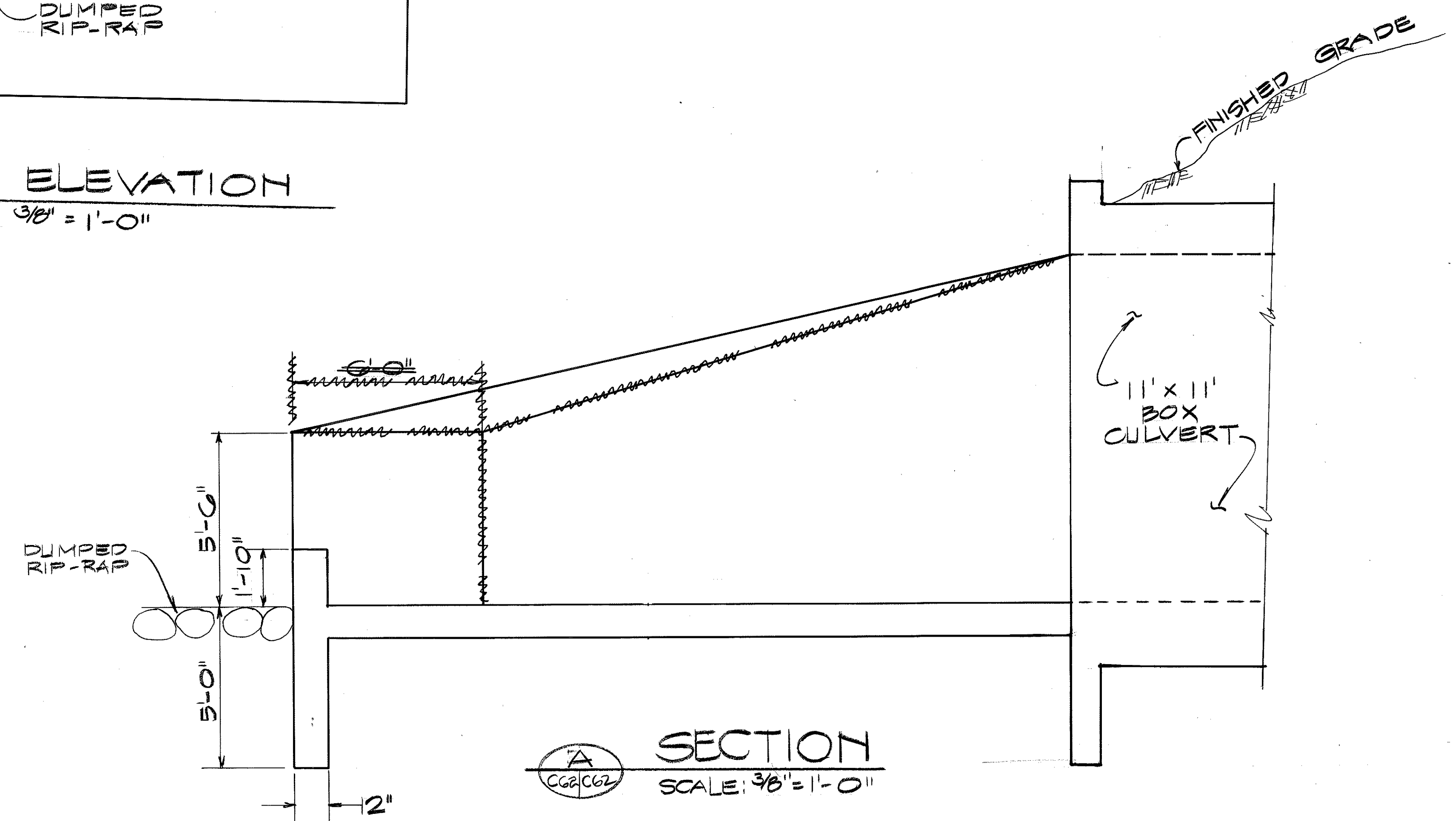
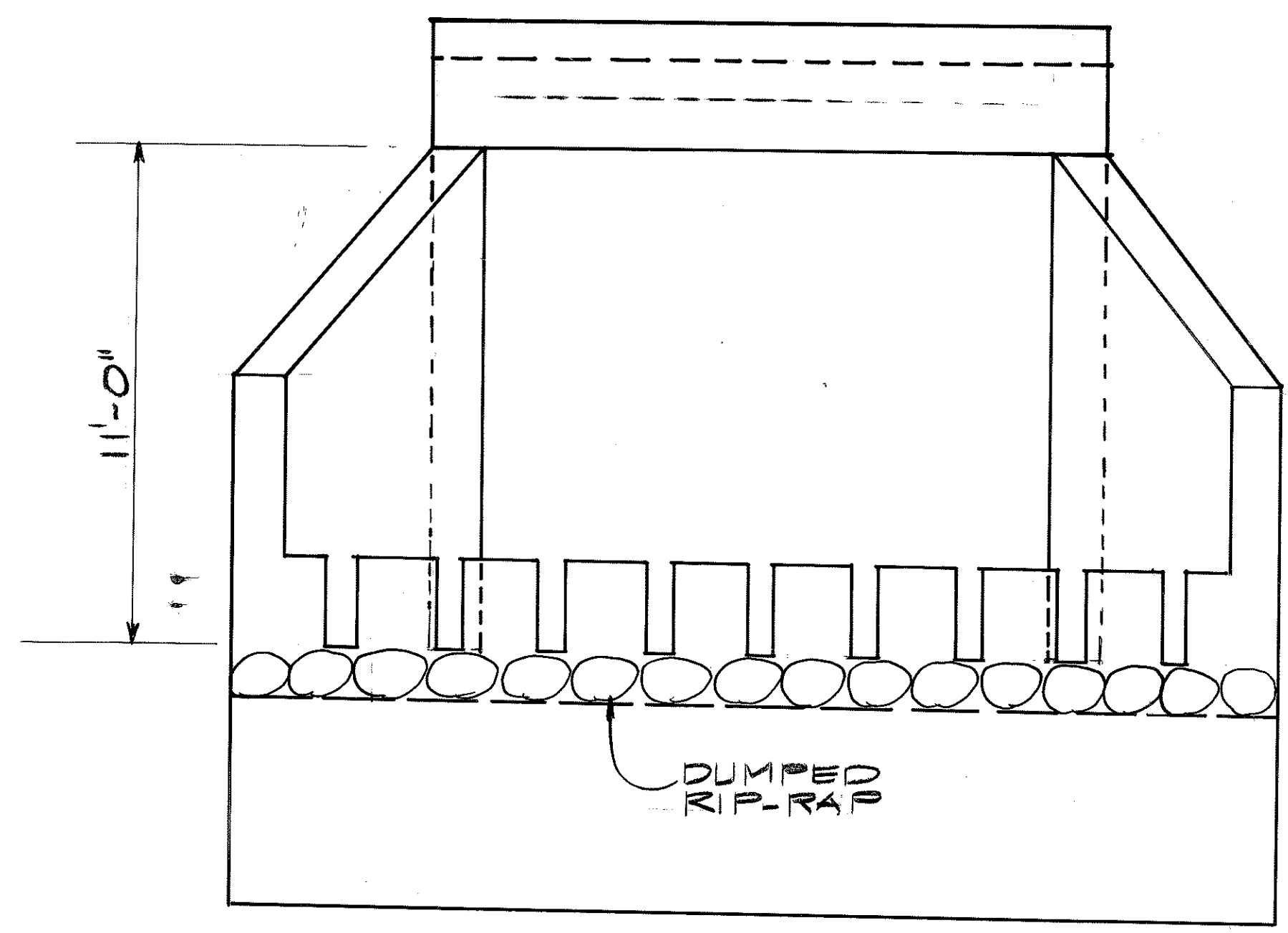
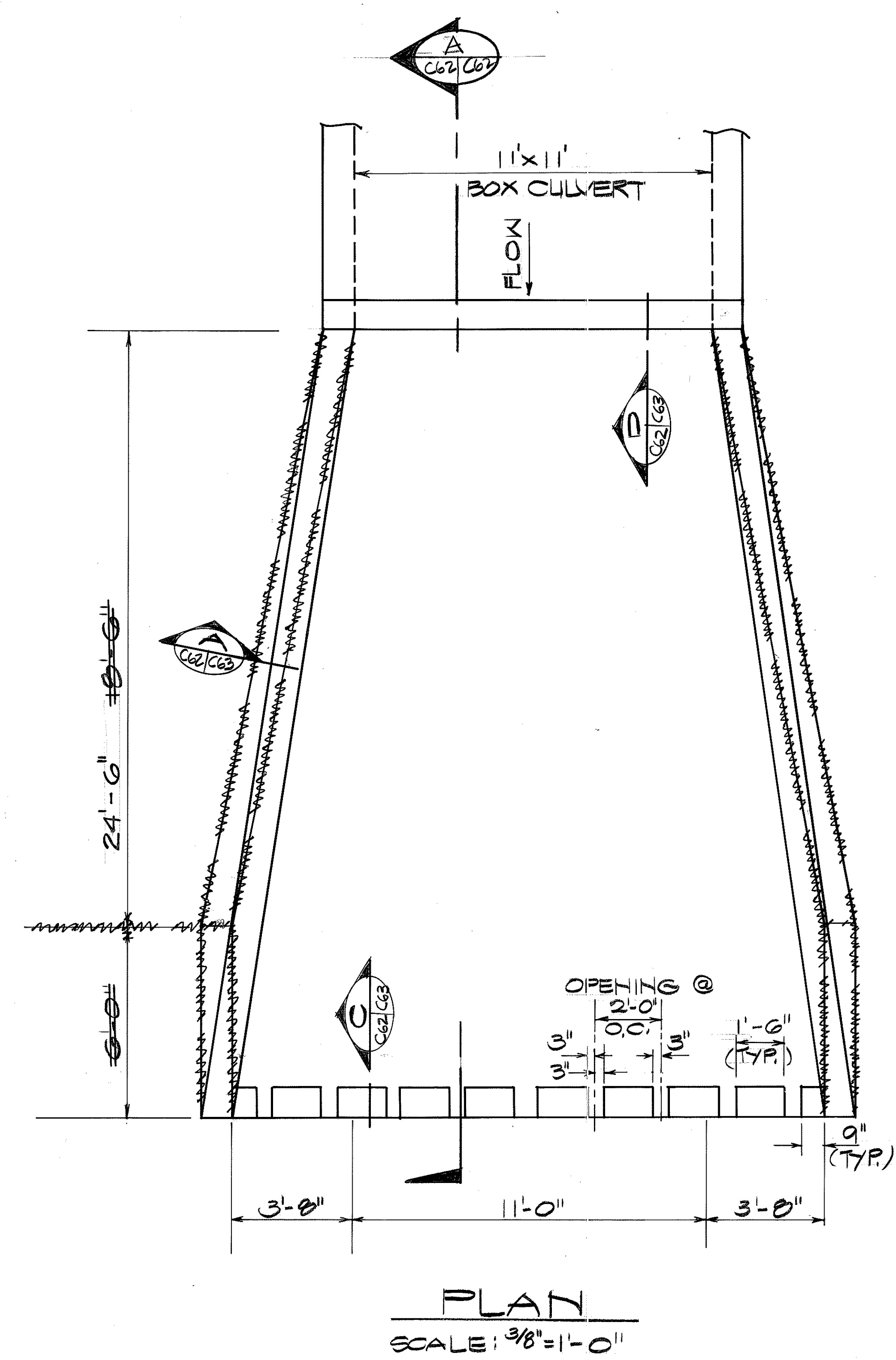
INLET STRUCTURE CULVERT 3 SCALE: AS NOTED



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SIGNATURE DATE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
CULVERT 3 INLET STRUCTURE	
INTERSTATE ROUTE H-3 F.A.I. PROJECT NO. I-H3-1(69) & (70)	
SCALE: AS NOTED	DATE: MARCH, 1992
SHEET No. 64 OF 95 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(69)	1992	65	825



NOTE: FOR REINFORCING,
SEE SCHEDULE
"D" SHT. C-63

OUTLET STRUCTURE FOR CULVERT 1 SCALE AS NOTED



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

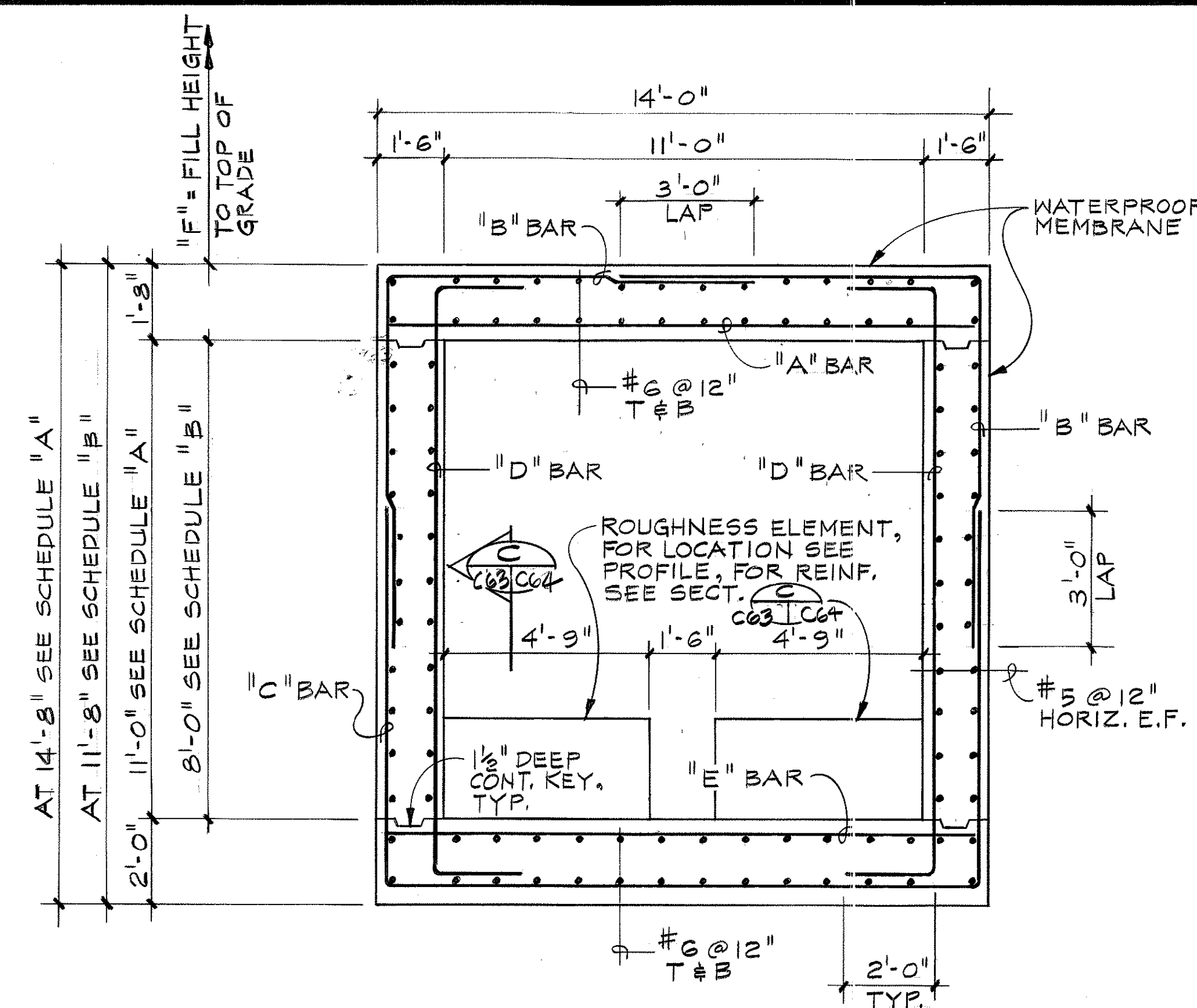
CULVERT 1
OUTLET STRUCTURE

INTERSTATE ROUTE H-3
F.A.I. PROJECT NO. I-H3-1(69) & (70)

SCALE: AS NOTED
DATE: MARCH, 1992

ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(69)	1992	60	325



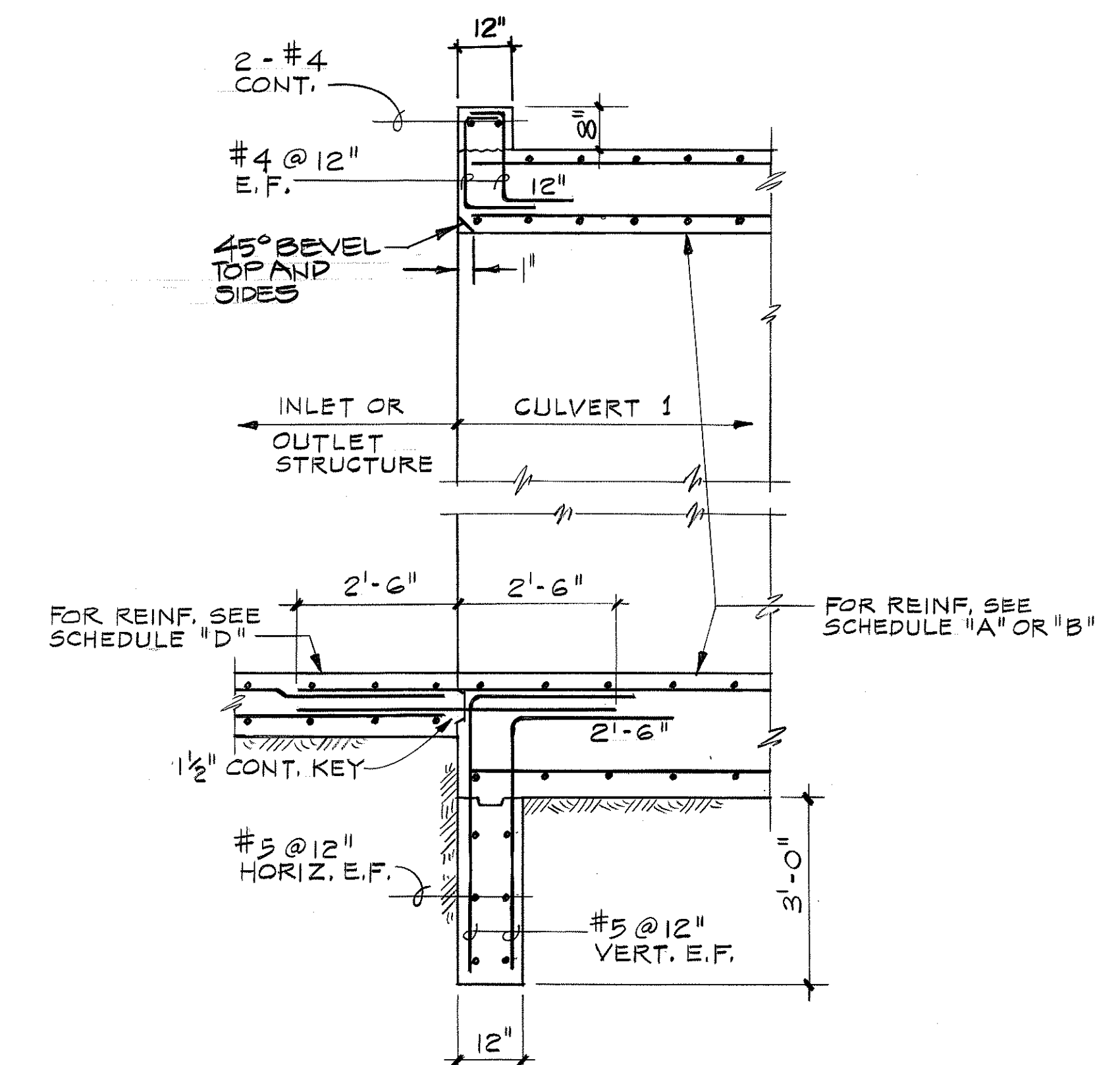
TYPICAL SECTION THRU
CULVERT 1 (SEE SCHEDULE "A" & "B")
NOT TO SCALE

SCHEDULE "A" : SEE TYPICAL SECTION THRU CULVERT 1 (11'-0" x 11'-0")						
"F" (MAX.)	REINFORCING BARS					REMARKS
	"A" BAR	"B" BAR	"C" BAR	"D" BAR	"E" BAR	
20'	#8@6"	#8@6"	#8@6"	#6@12"	#8@8"	
17'	#8@8"	#8@6"	#8@6"	#6@12"	#8@8"	
12'	#8@10"	#8@8"	#8@8"	#6@12"	#8@10"	
6'	#6@8"	#8@12"	#8@12"	#6@12"	#6@8"	

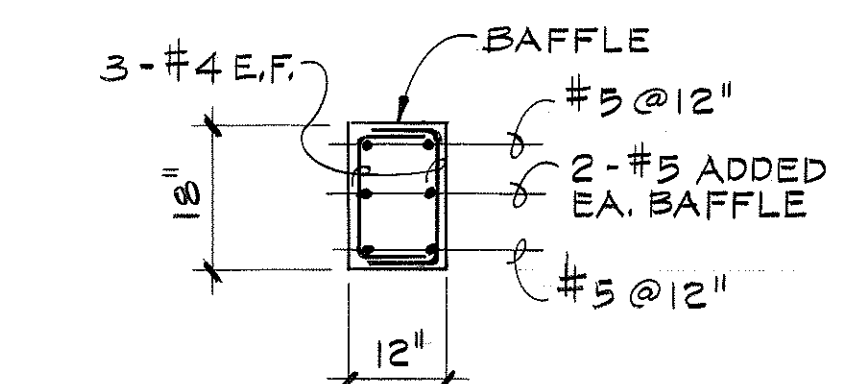
SCHEDULE "B": SEE TYPICAL SECTION THRU CULVERT 1 (11'-0" x 8'-0")						
"F" (MAX.)	REINFORCING BARS					REMARKS
	"A" BAR	"B" BAR	"C" BAR	"D" BAR	"E" BAR	
18'	#8 @ 6"	#8 @ 6"	#8 @ 6"	#6 @ 12"	#8 @ 8"	
12'	#8 @ 10"	#8 @ 10"	#8 @ 10"	#6 @ 12"	#8 @ 10"	
6'	#6 @ 8"	#6 @ 8"	#6 @ 8"	#5 @ 12"	#6 @ 8"	

SCHEDULE "C": REF. SECT. A/C- (CULVERTS INLET 2 & 3 STRUCTURES)							
"H" MAX.	REINFORCING BARS				"L"	"L"	REMARKS
	"A" BAR	"B" BAR	"C" BAR	"D" BAR			
5'-6"	#3 @ 12"	#4 @ 12"	#5 @ 12"	#4 @ 12"	22'	NO LAP	EXTEND "A" & "B" BARS TO TOP OF WALL

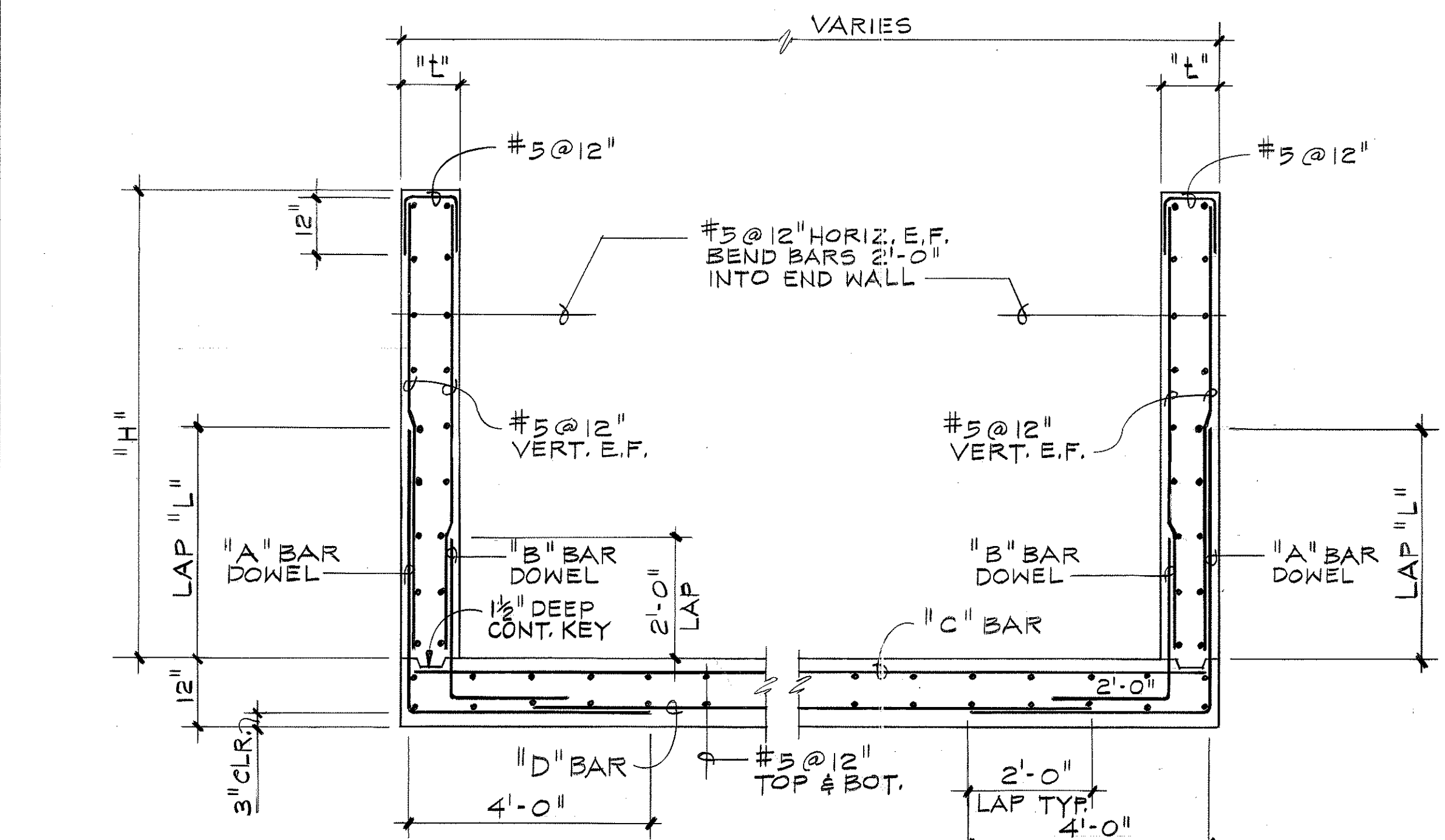
SCHEDULE "D": REF. SECT. A/C-. (CULVERT 1 STRUCTURE)							
"H" MAX.	REINFORCING BARS				"L"	"L"	REMARK
	"A" BAR	"B" BAR	"C" BAR	"D" BAR			
11'-0"	#6 @ 6"	#3 @ 6"	#6 @ 6"	#3 @ 6"	12"	4'-0"	
8'-0"	#5 @ 12"	#5 @ 12"	#5 @ 12"	#5 @ 12"	12"	3'-0"	



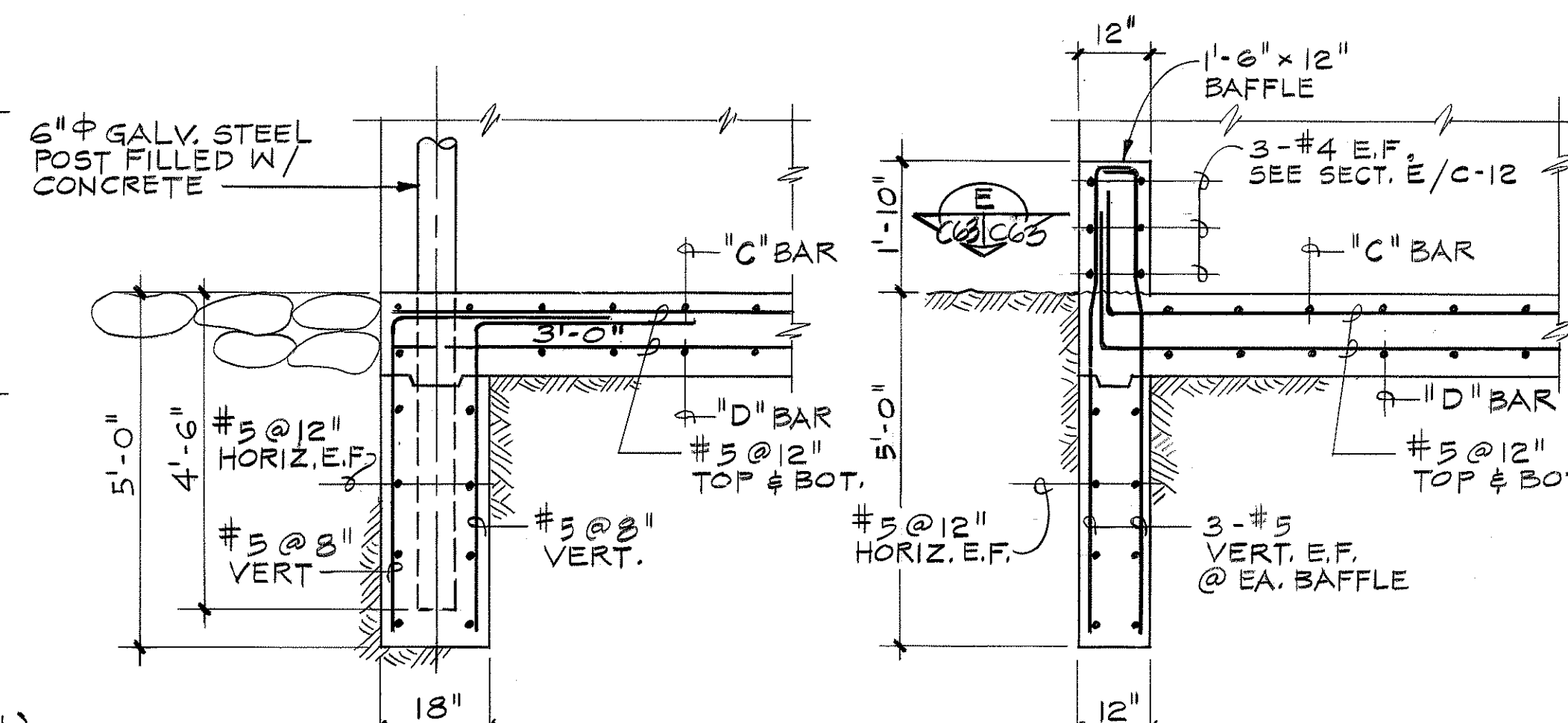
D SECTION
SCALE: $\frac{1}{2}" = 1' - 0"$



E SECTION
C63 C63 SCALE: 1/2" = 1'-0"



TYPICAL SECTION THRU INLET
& OUTLET STRUCTURE (SEE SCHEDULES "C" & "D")
SCALE: $\frac{1}{8}" = 1'-0"$



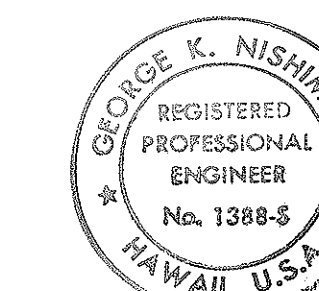
B SECTION
SCALE : $\frac{1}{2}'' = 1' - 0''$

C62-C59

C

SECTION

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

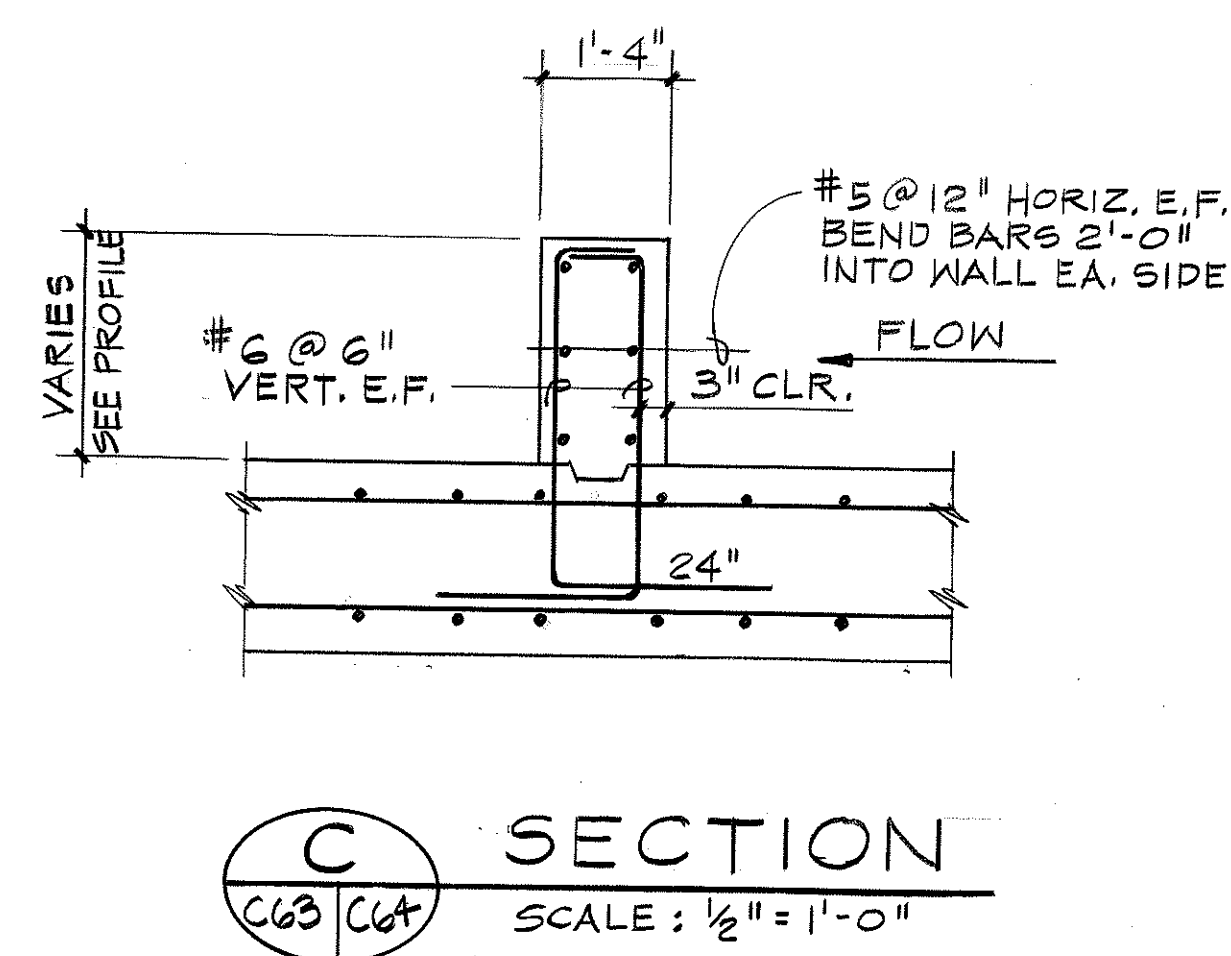
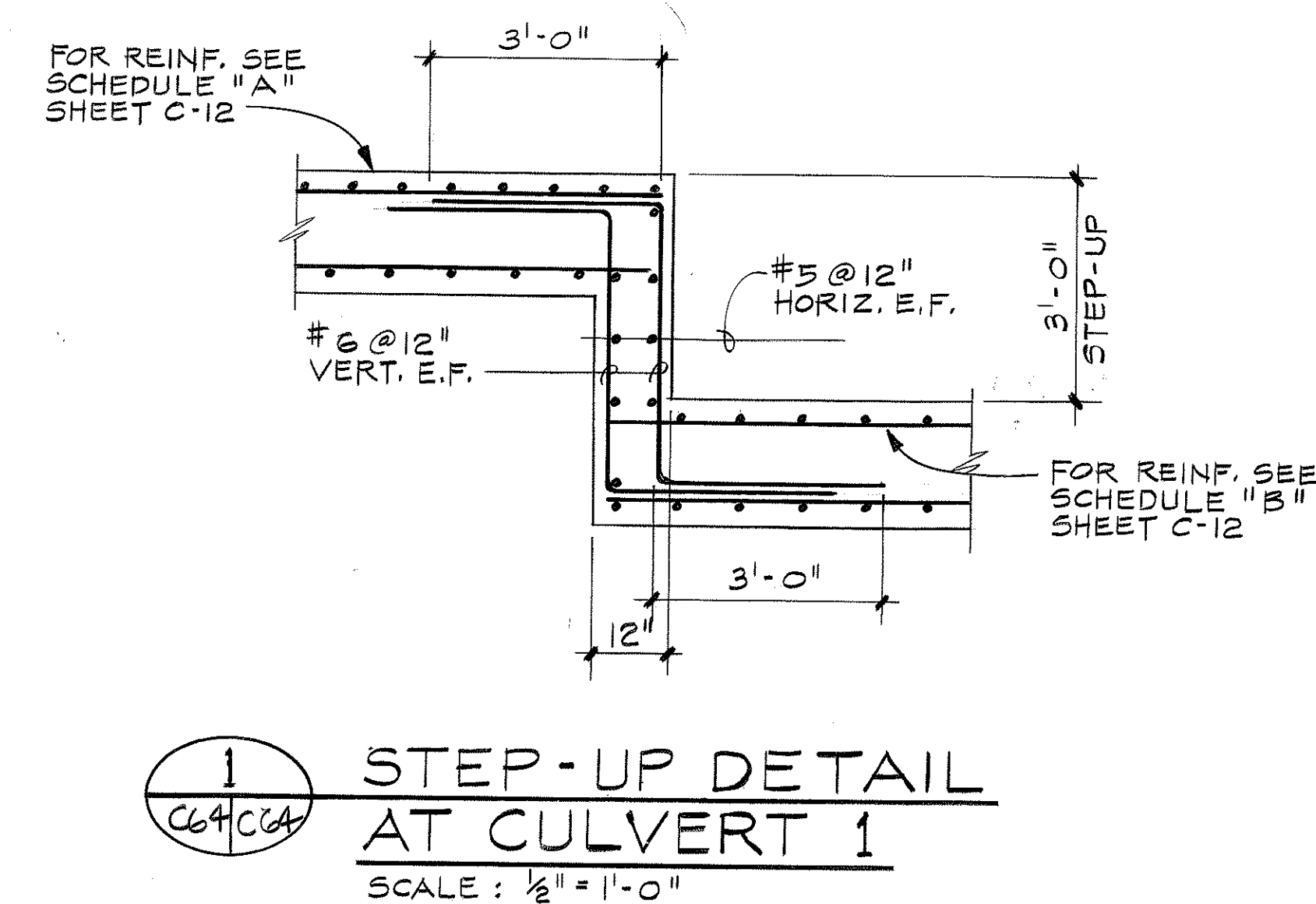
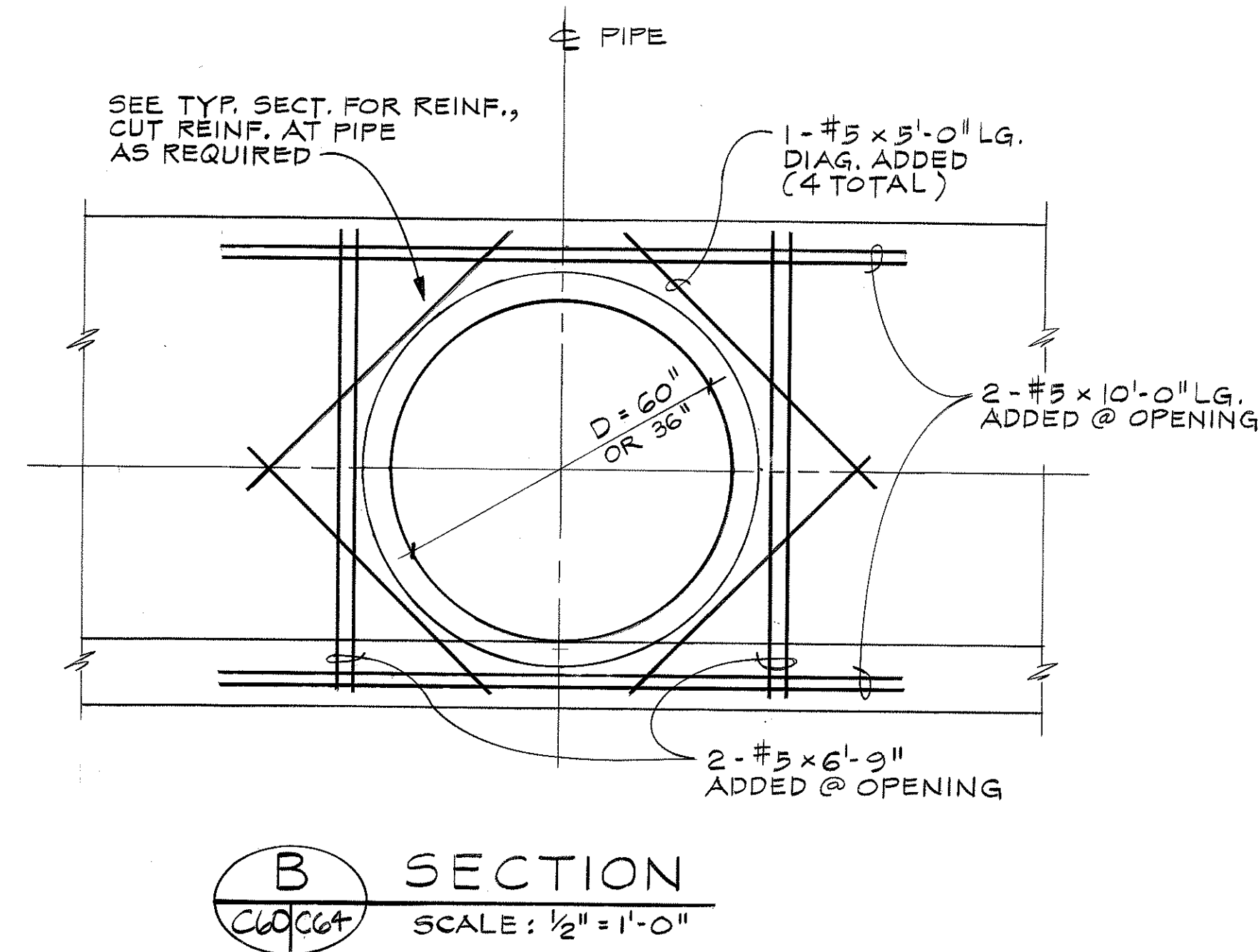
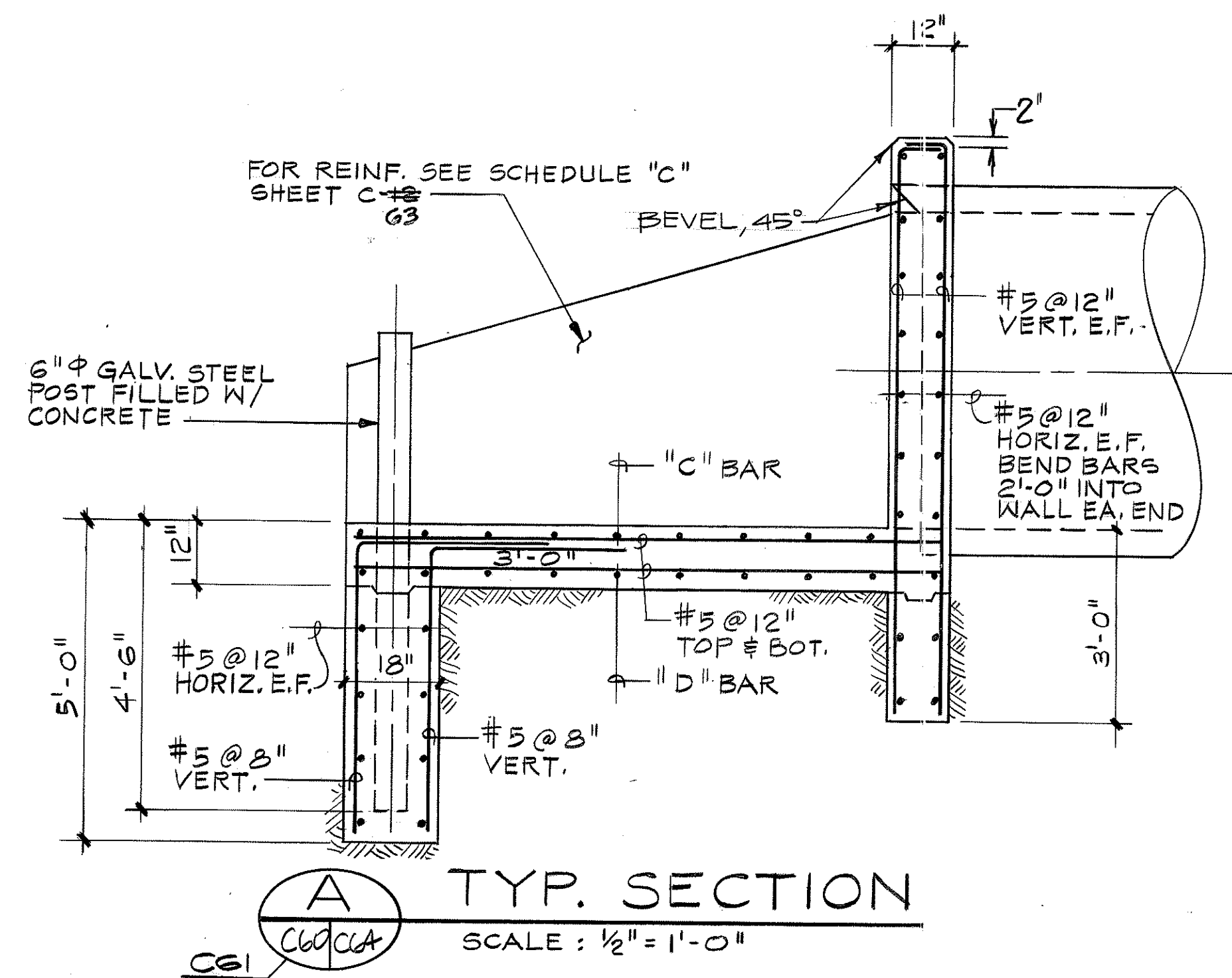


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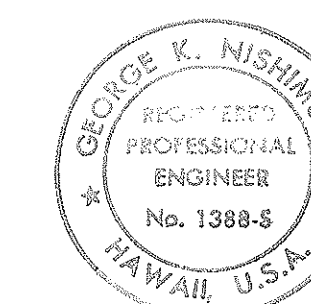
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
CULVERTS 1, 2 & 3 DETAILS
<u>INTERSTATE ROUTE H-3</u> <u>F.A.I. PROJECT NO. I-H3-1(69) & (70)</u>
SCALE: AS NOTED DATE: MAR. 1992

SHEET No. 63 OF 95 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(69)	1992	67	925



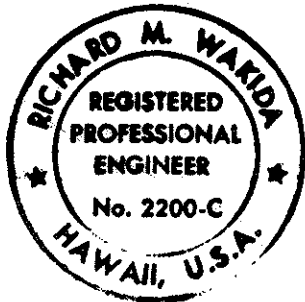
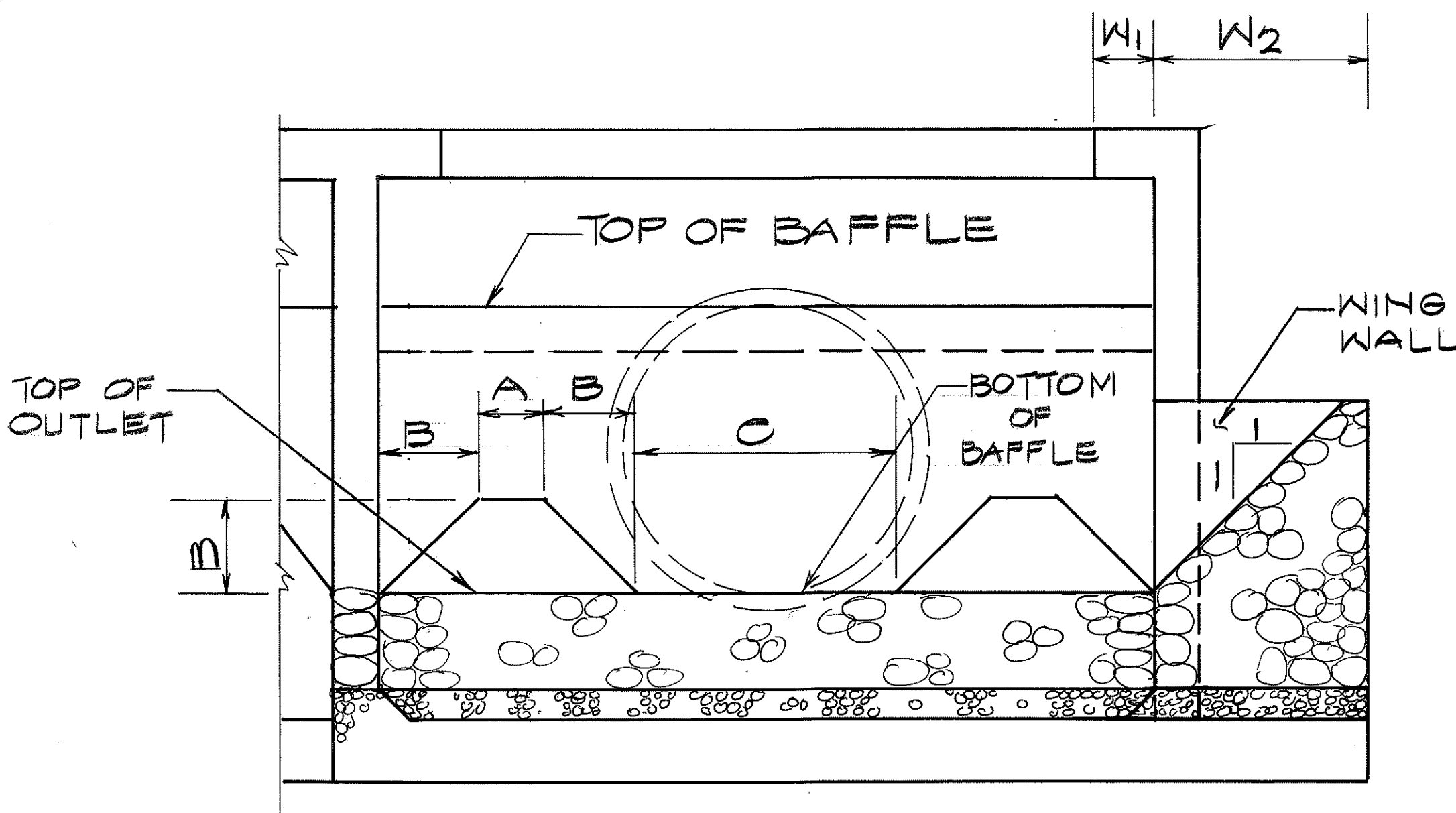
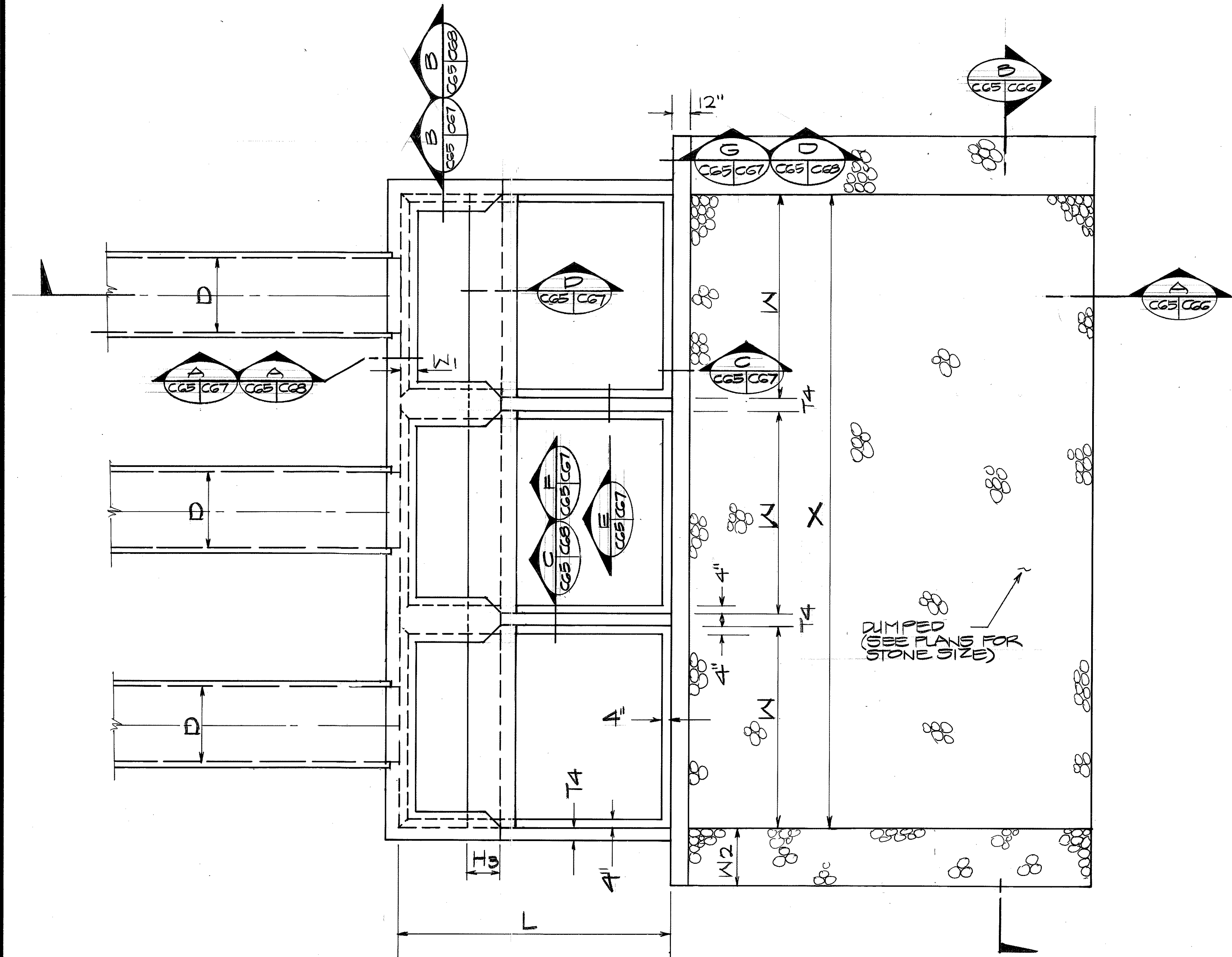
DATE	_____
SURVEY PLOTTED BY	_____
ORIGINAL PLAN	_____
DESIGNED BY	_____
TRACED BY	_____
NOTE BOOK	_____
QUANTITIES BY	_____
CHECKED BY	_____
No.	_____



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ME UNDER MY SUPERVISION.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
CULVERTS 1,2 & 3 DETAILS
INTERSTATE ROUTE H-3 F.A.I. PROJECT NO. 1-H3-1(69) & (70)
SCALE: AS NOTED DATE: MAR. 1992
SHEET No. C64 OF 95 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I- H3-1(69)	1992	68	925



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OR UNDER MY SUPERVISION.
DATE: 3/1/92

NOTE: FOR REINFORCING,
SEE STRUCTURAL
SHT. C67 & C68

DESCRIPTION:	A	B	C	D	W	W1	W2	L	L1	L2	H1	H2	H3	H4	T1	T2	T3	T4	X	Y
CULVERT 2 :	8"	1'-0"	2'-8"	36"	8'-0"	7 1/2"	2'-3"	11'-8 1/2"	4'-11 1/2"	6'-2"	6'-4"	3'-0"	1'-4"	3'-4"	8"	14'-11"	12"	12"	26'-0"	16'-0"
CULVERT 3 :	1'-0"	1'-6"	4'-0"	60"	12'-0"	11"	3'-0"	16'-8"	7'-4"	9'-2"	9'-2"	4'-6"	2'-0"	5'-0"	8"	14'-2"	16"	12"	30'-0"	20'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

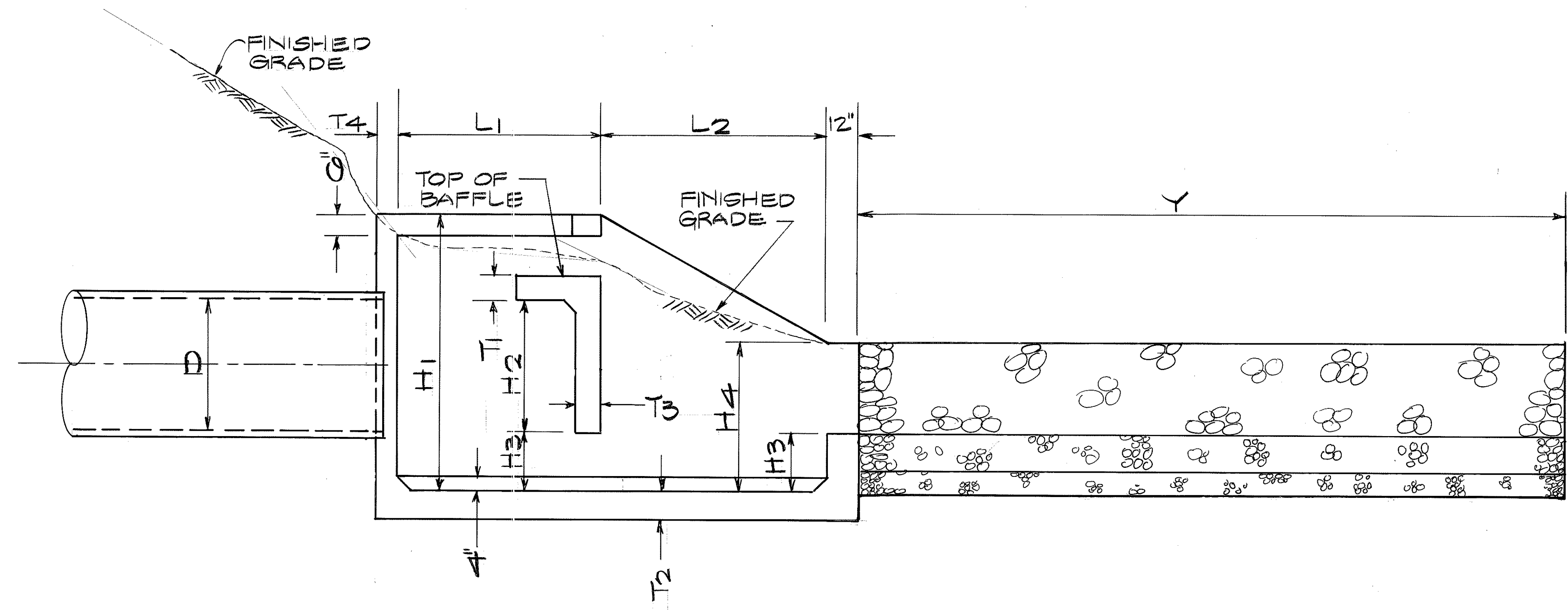
CULVERT 2 & 3
OUTLET STRUCTURE

INTERSTATE ROUTE H-3
F.A.I. PROJECT NO. I-H3-1(69) & (70)

SCALE: NONE DATE: MARCH, 1992

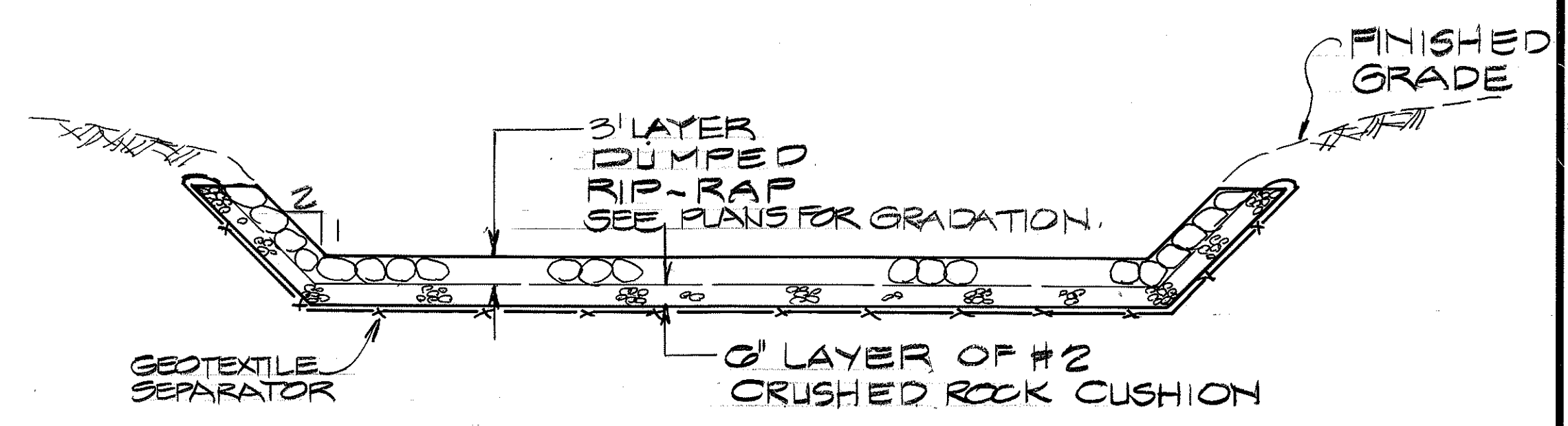
SHEET No. C65 OF 95 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I- H3- I (69)	1992	69	925

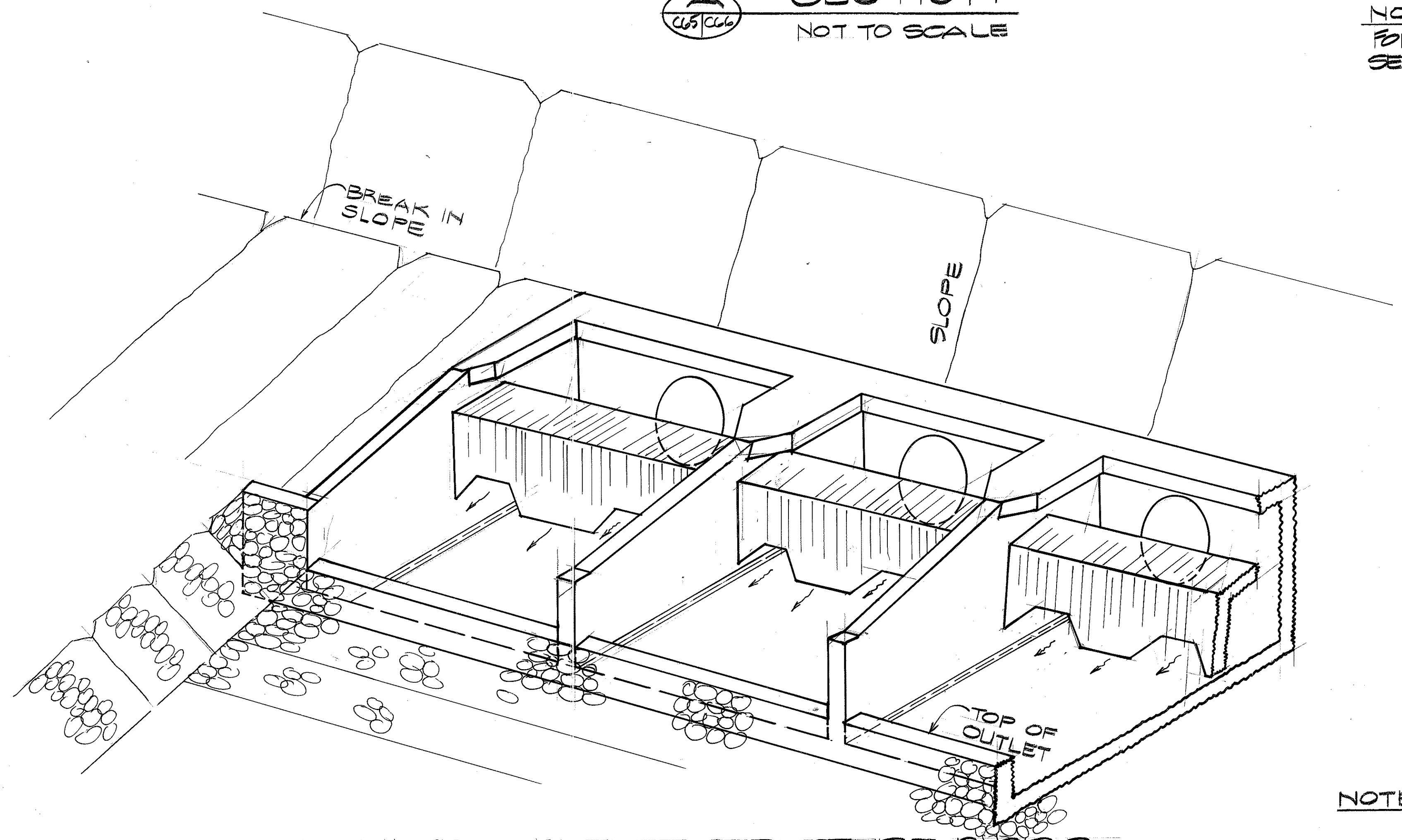


SECTION A
NOT TO SCALE

NOTE:
FOR DIMENSIONS
SEE SHT. C-65

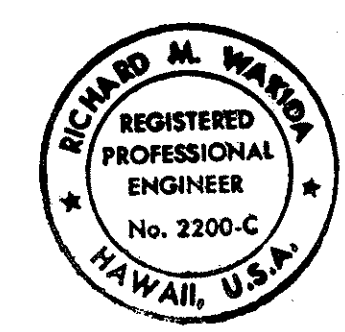


SECTION B
NOT TO SCALE



ISOMETRIC-OUTLET STRUCTURE 2 OR 3
NOT TO SCALE

NOTE: FOR REINFORCING,
SEE SHEETS C67
& C68

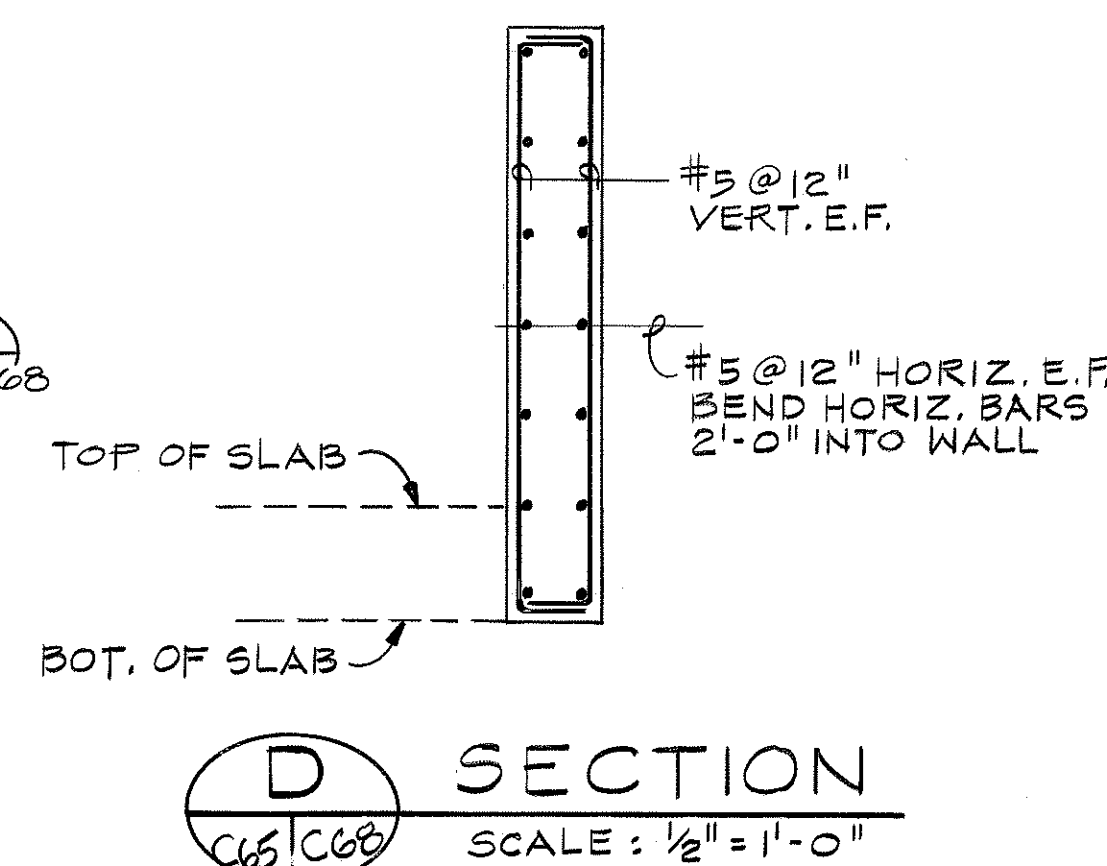
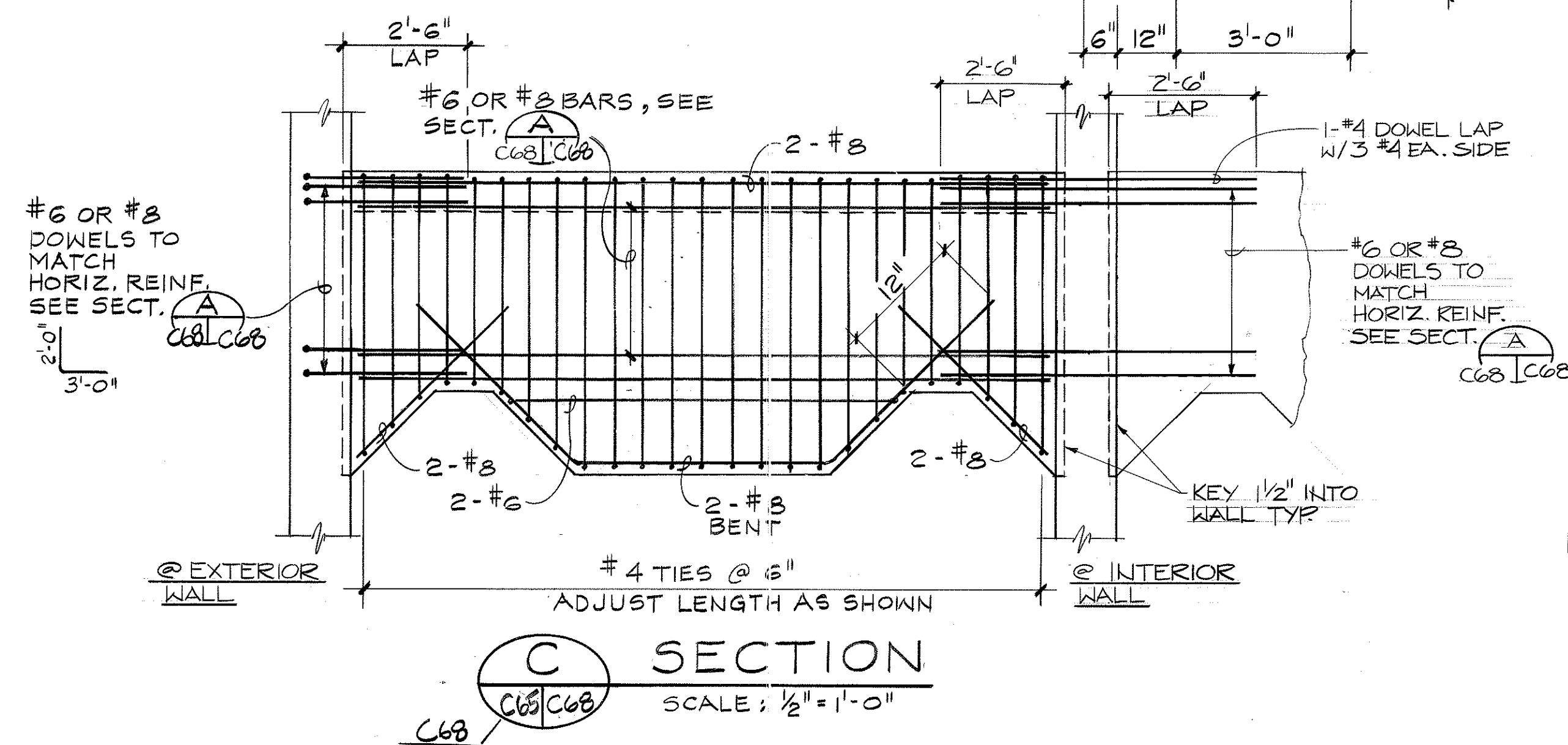
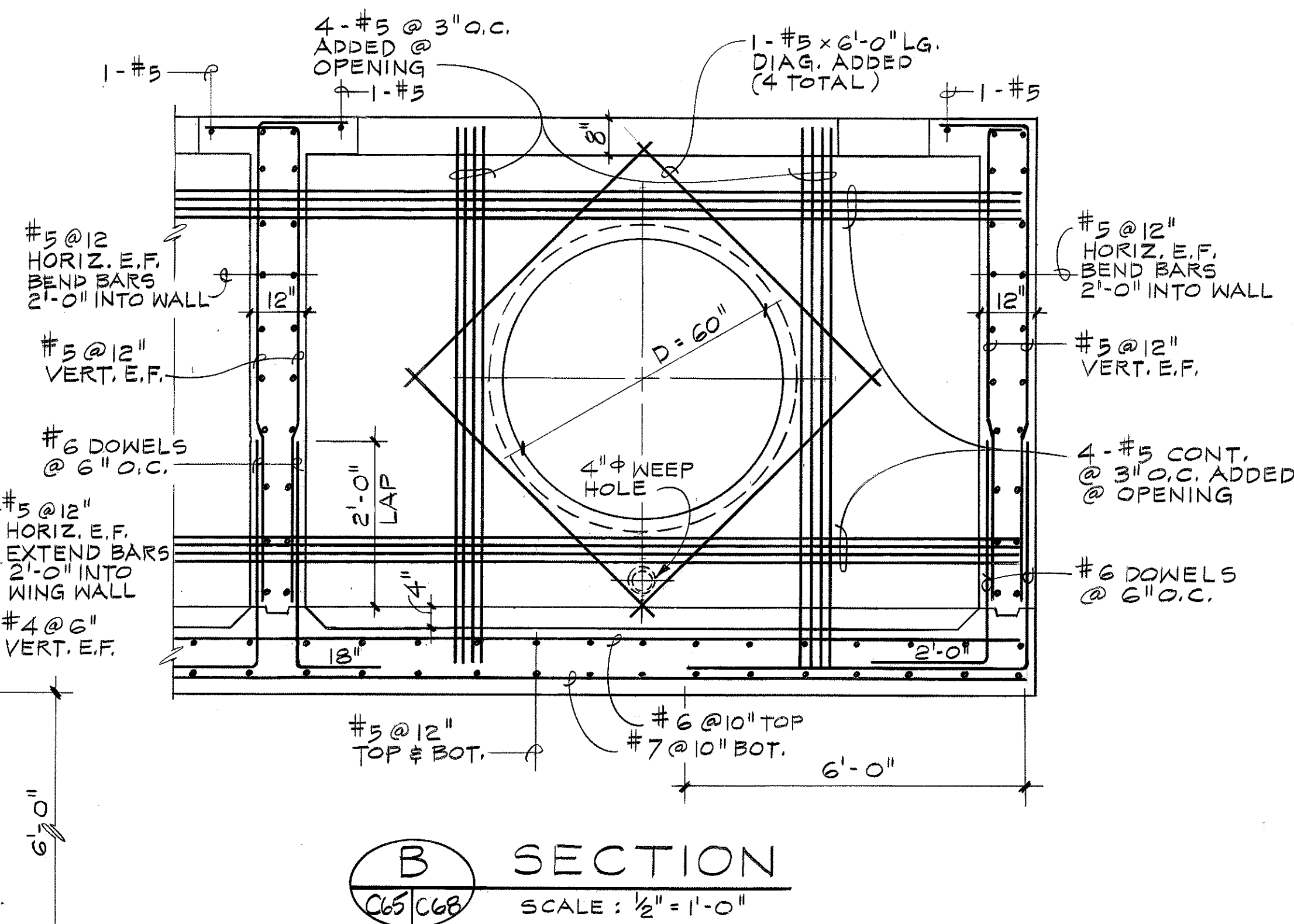
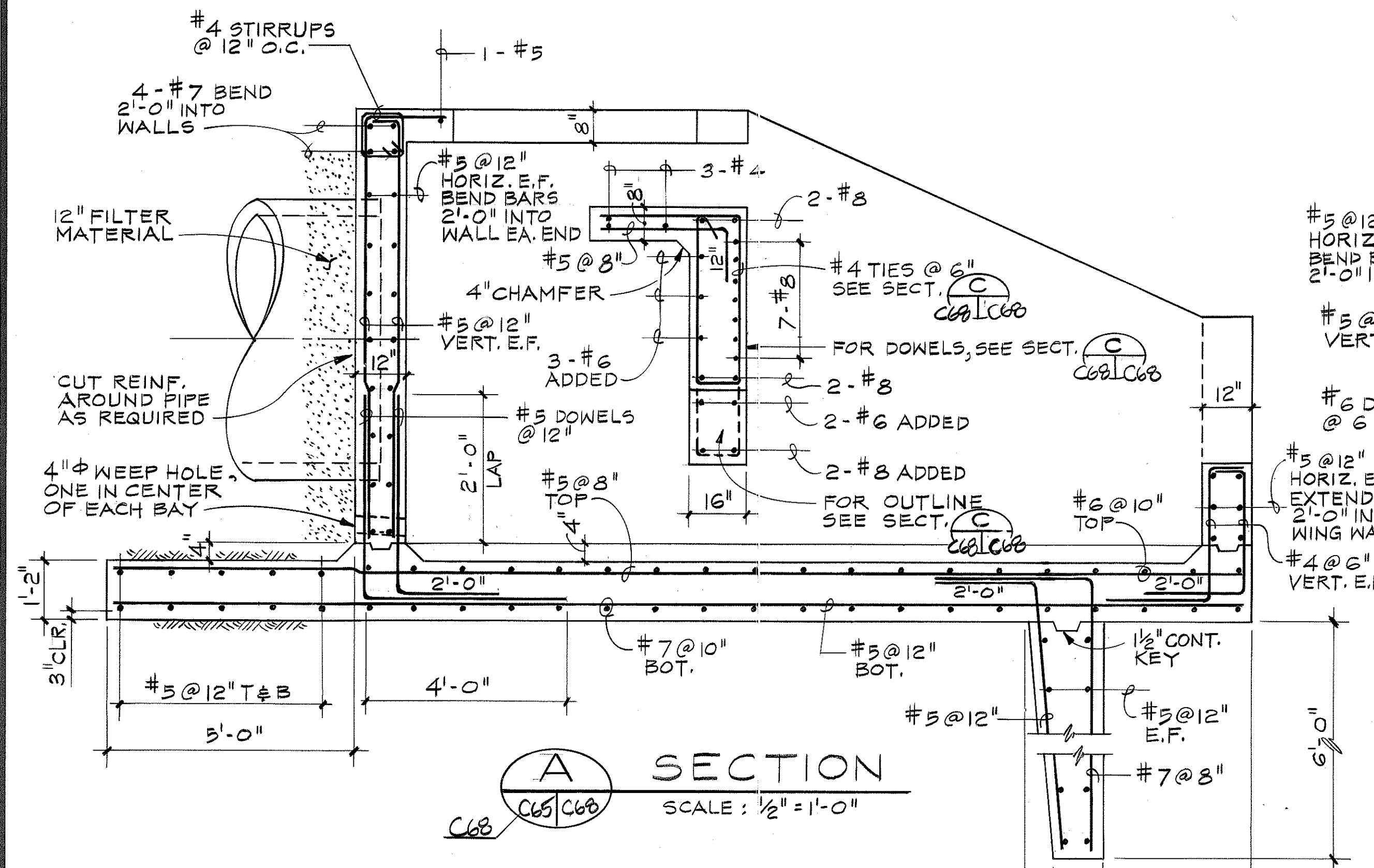


THIS WORK WAS PREPARED BY ME
UNDER MY SUPERVISION
Richard M. Wanda
DATE

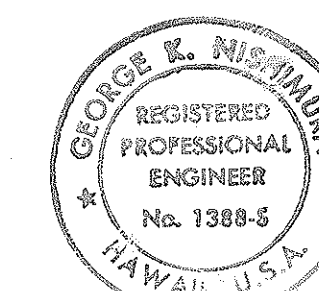
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
CULVERT 2 & 3 OUTLET STRUCTURE	
INTERSTATE ROUTE H-3 F.A.I. PROJECT NO. I-H3-I(69) & (70)	
SCALE: NONE	DATE: MARCH, 1992
SHEET No. C66 OF 95 SHEETS	

ORIGINAL	DATE
PLAN	
DESIGNED BY	
TRACED BY	
NOTE BOOK	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(69)	1992	71	325



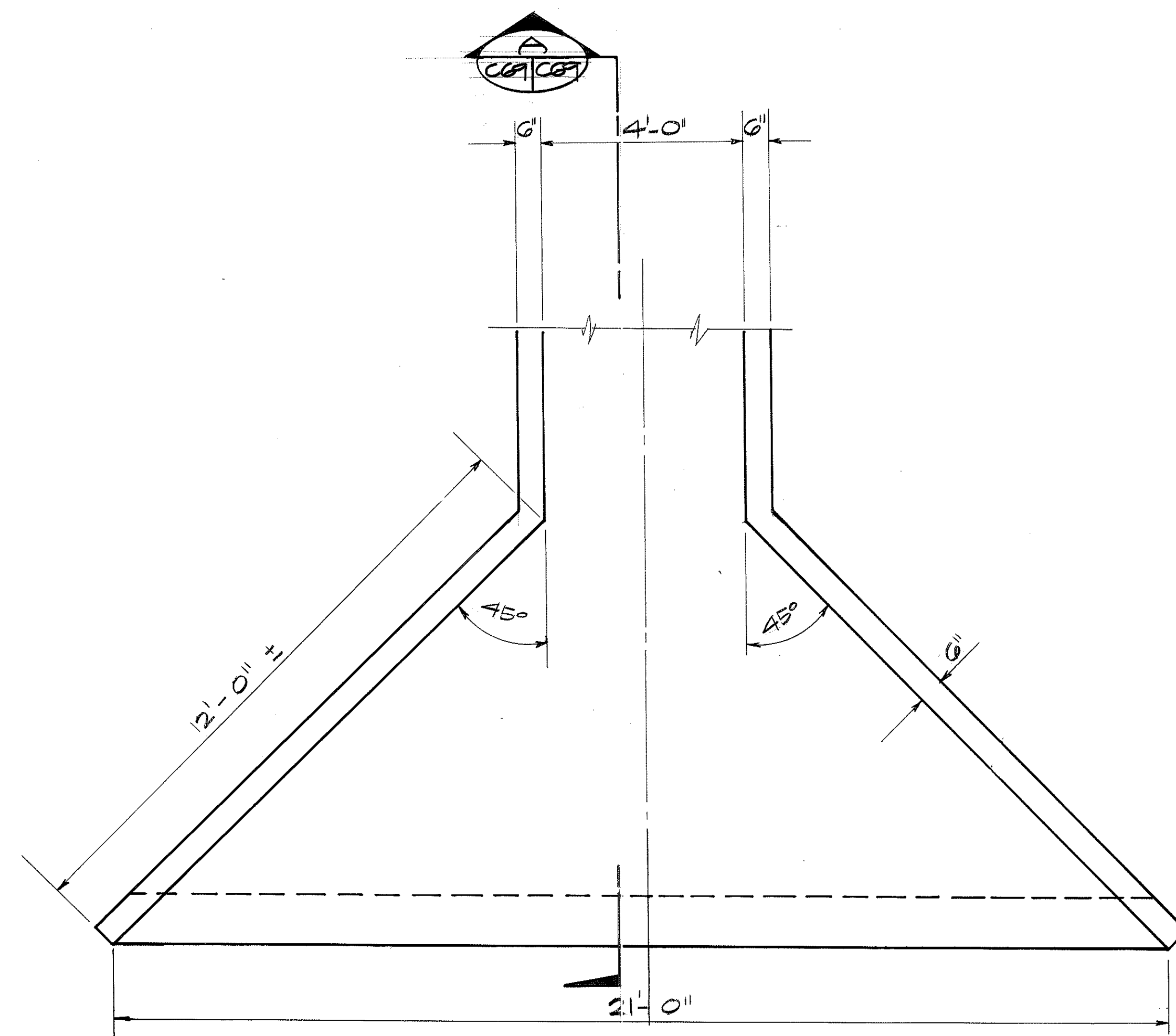
DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
NO.	_____



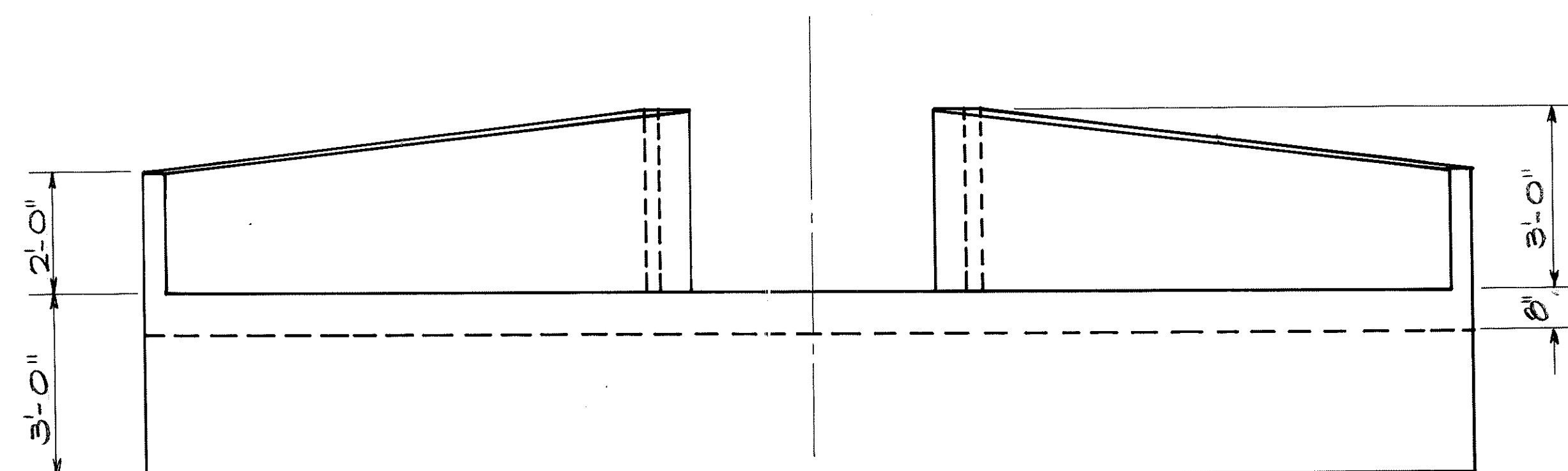
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
[Signature]

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
OUTLET STRUCTURE CULVERT 2&3
INTERSTATE ROUTE H-3 F.A.I. PROJECT NO. 1-H3-1(69) & (70)
SCALE: AS NOTED DATE: MAR. 1992
SHEET NO. C68 OF 95 SHEETS

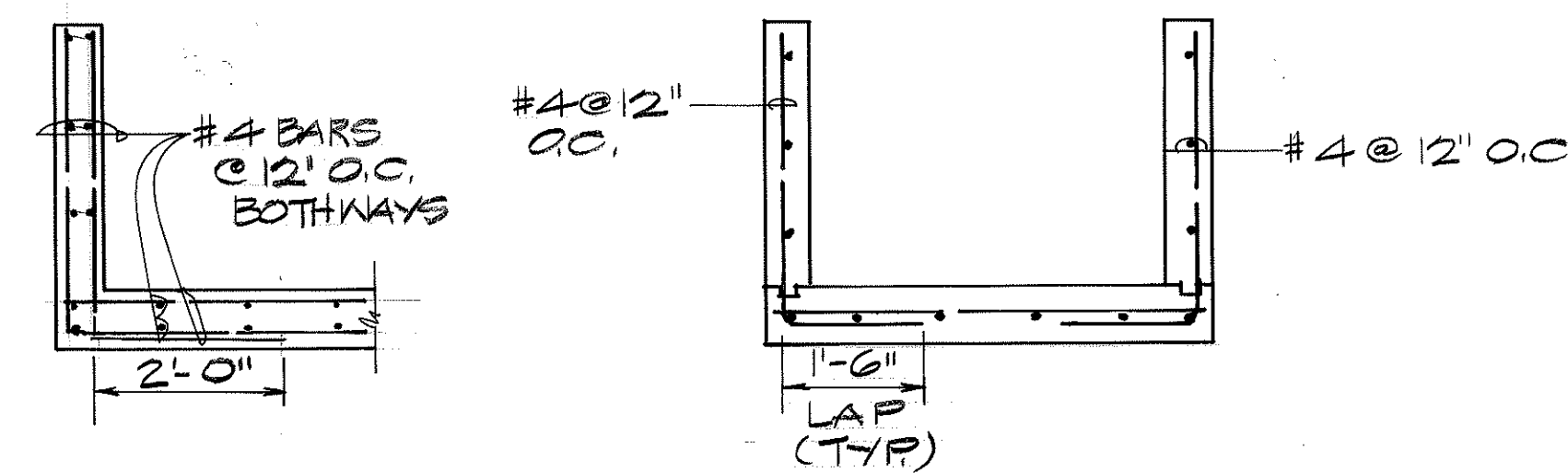
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(69)	1992	72	925



PLAN



FRONT ELEVATION

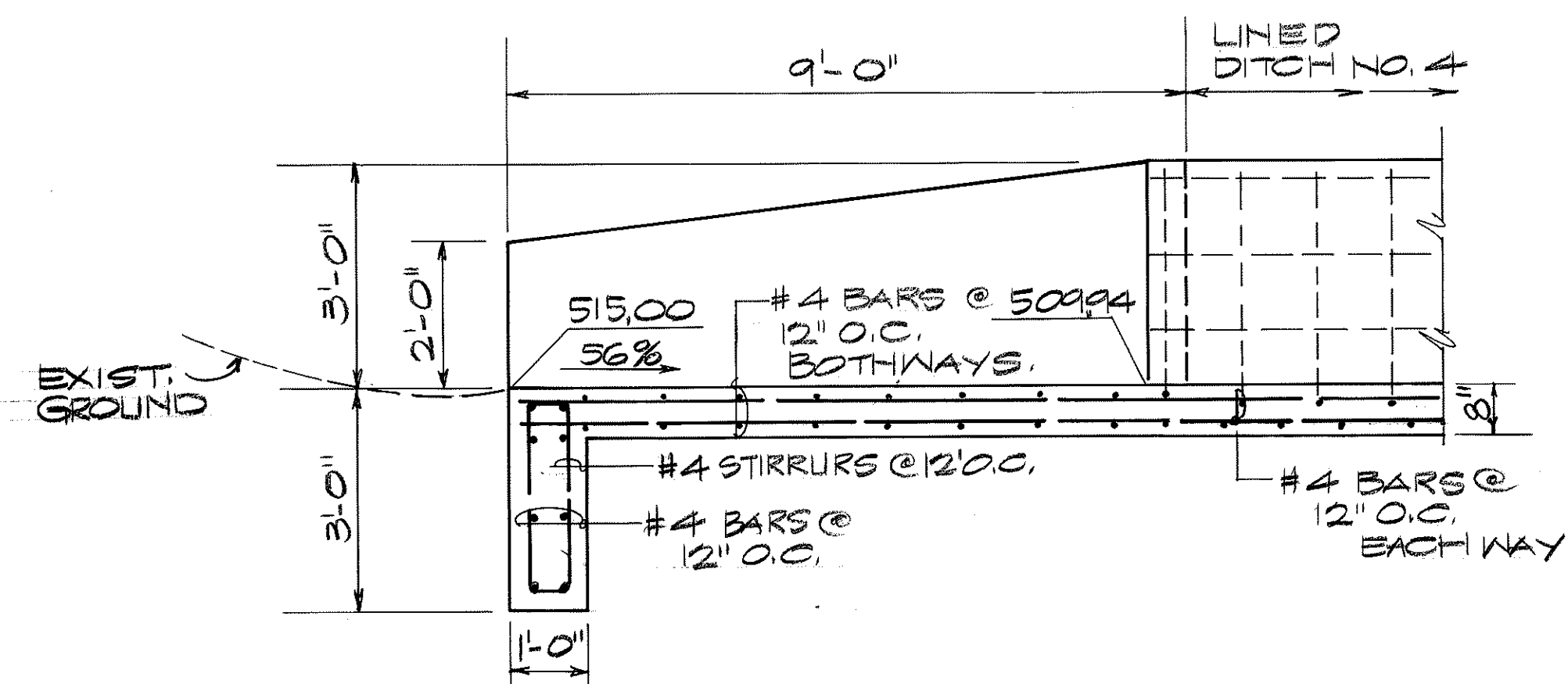


6" WING WALL

LINED DITCH NO. 4

TYPICAL WALL REINFORCING

SCALE: 1/2" = 1'-0"

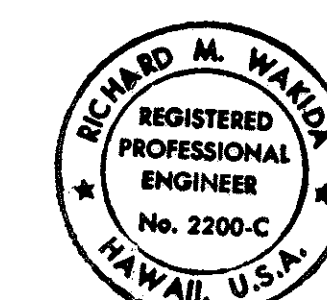


SECTION

INLET LINED DITCH NO. 4

SCALE: 1/2" = 1'-0"

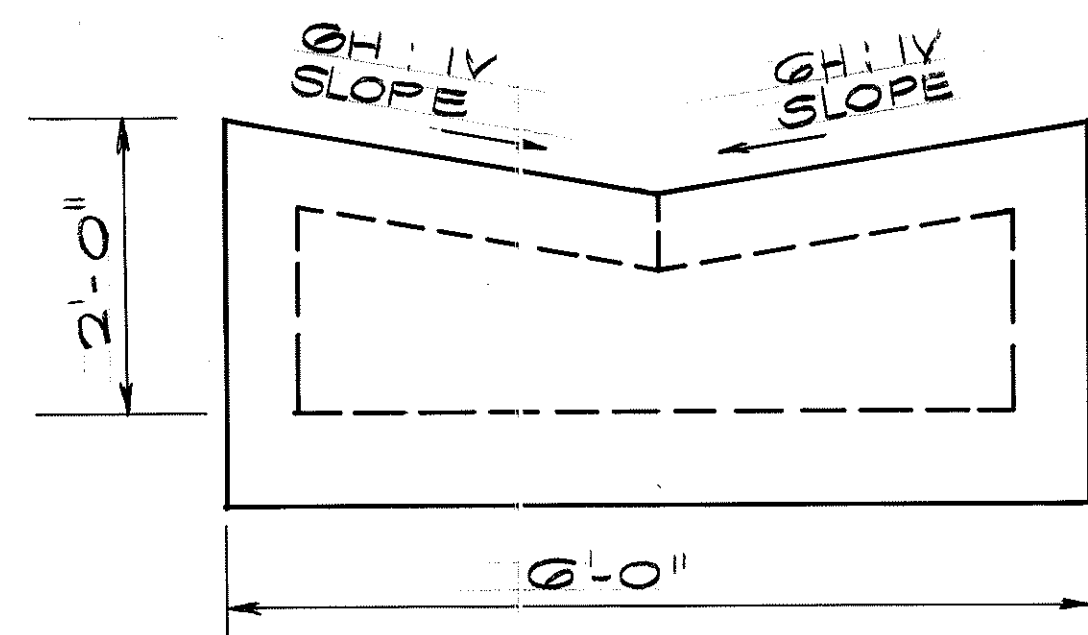
GRAPHIC SCALE:



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UNDER MY SUPERVISION
SIGNATURE DATE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
INLET (LINED DITCH NO. 4)	
INTERSTATE ROUTE H-3 F.A.I. PROJECT NO. I-H3-1(69) & (70)	
SCALE: AS SHOWN	DATE: MARCH, 1992
SHEET No. 069 OF 95 SHEETS	

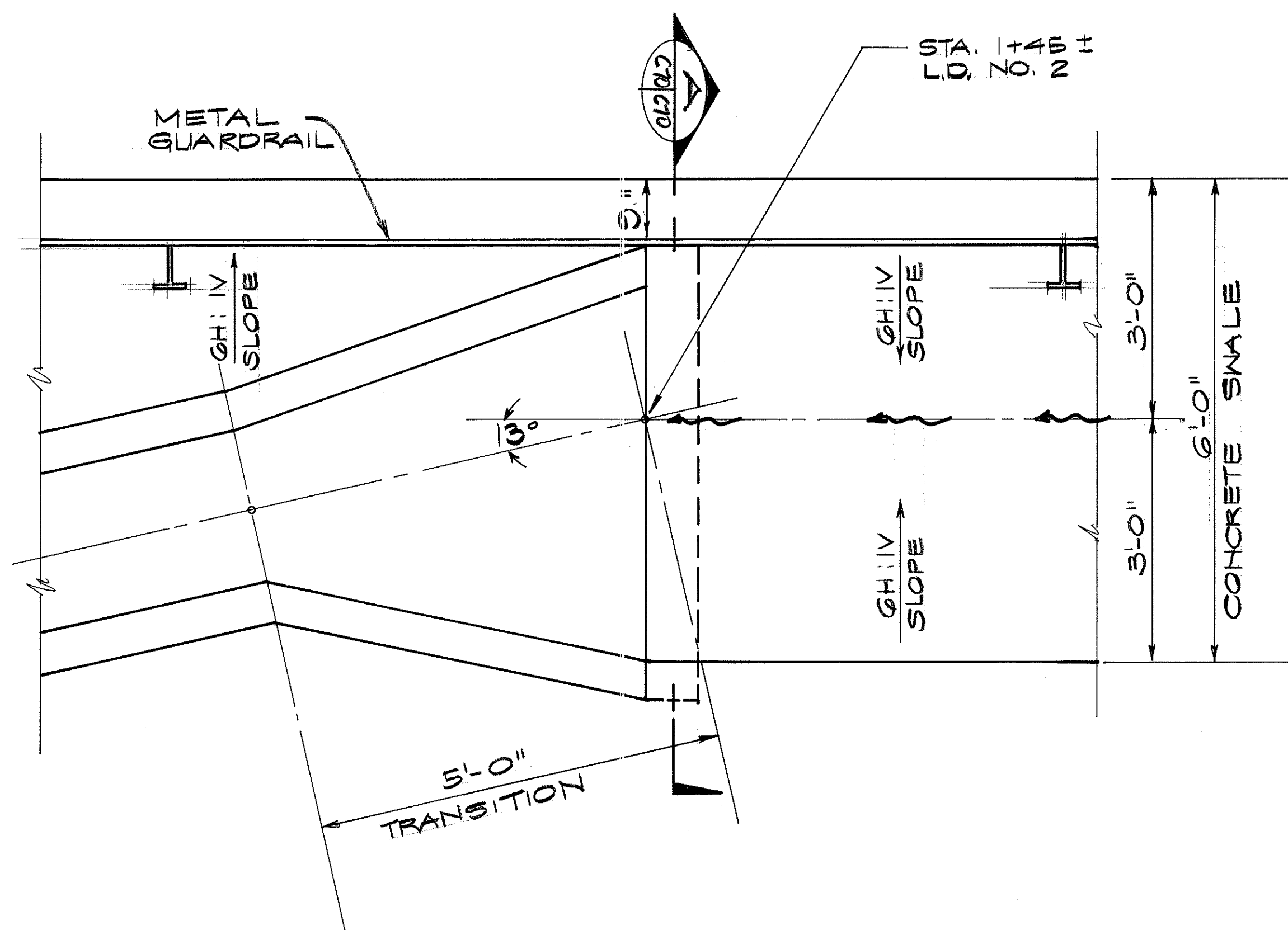
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(69)	1992	73	925



FOR REINFORCING
SEE TYP LINED DITCH
DETAILS SHT. C-71

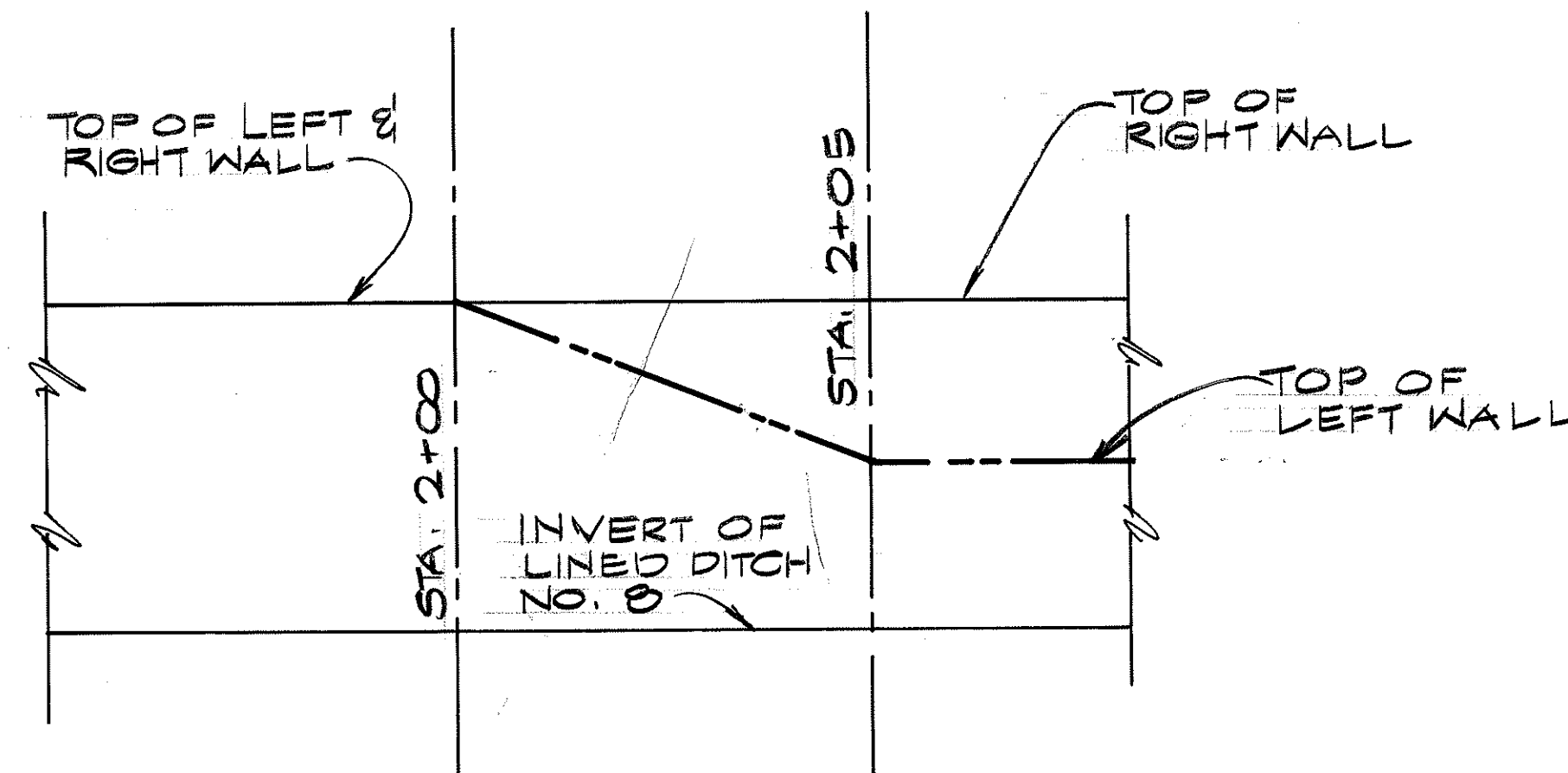
SECTION

SCALE: 3/4" = 1'-0"



CONCRETE SWALE TO LINED DITCH NO. 2 TRANSITION

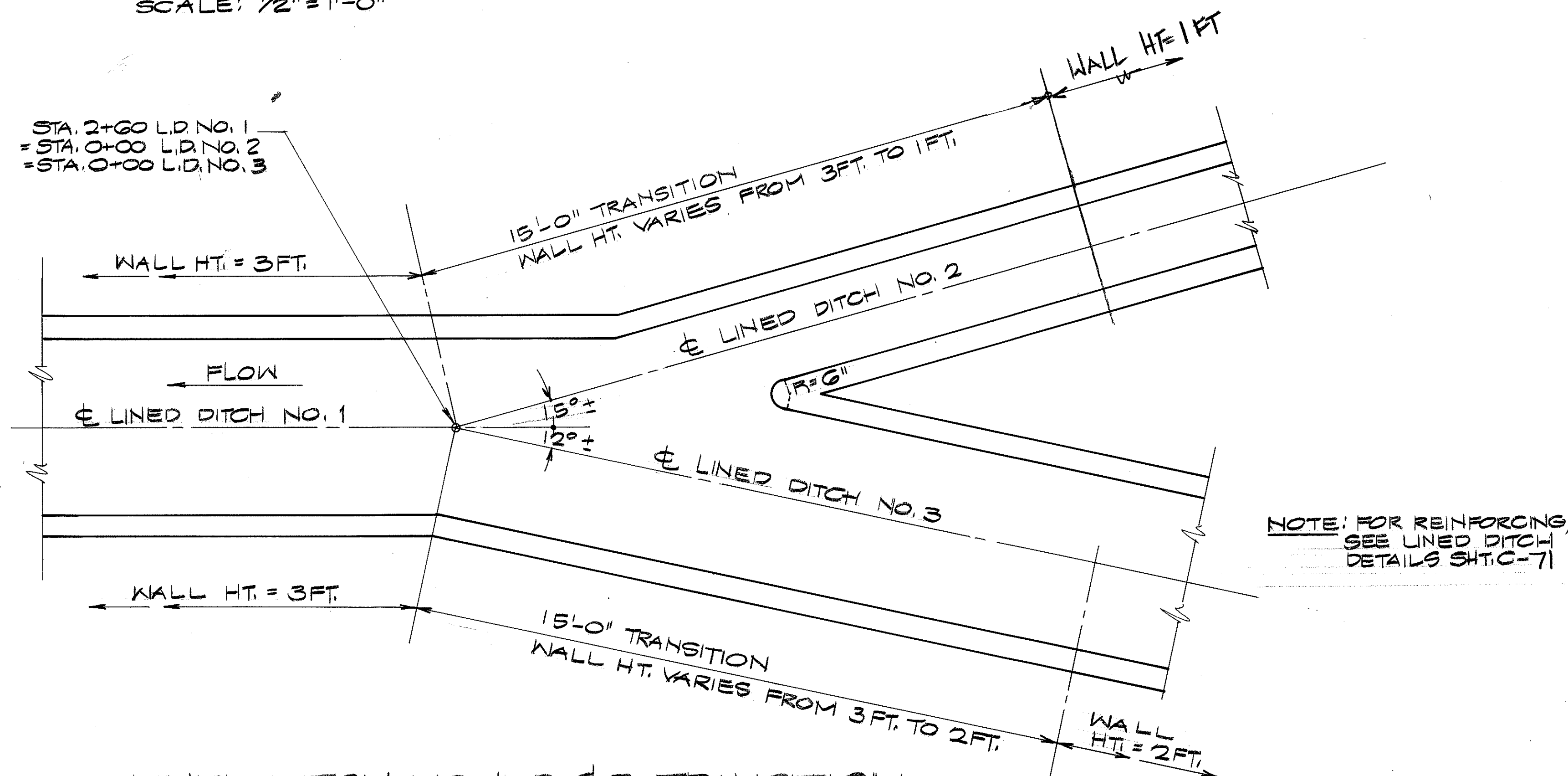
SCALE: 3/4" = 1'-0"



LINED DITCH NO. 8

WALL TRANSITION

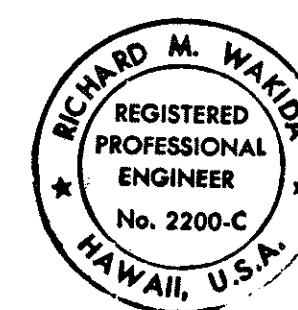
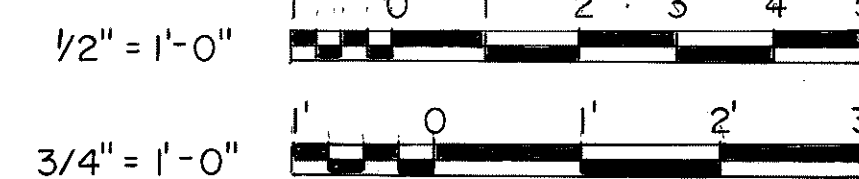
SCALE: 1/2" = 1'-0"



LINED DITCH NO. 1, 2 & 3 TRANSITION

SCALE: 1/2" = 1'-0"

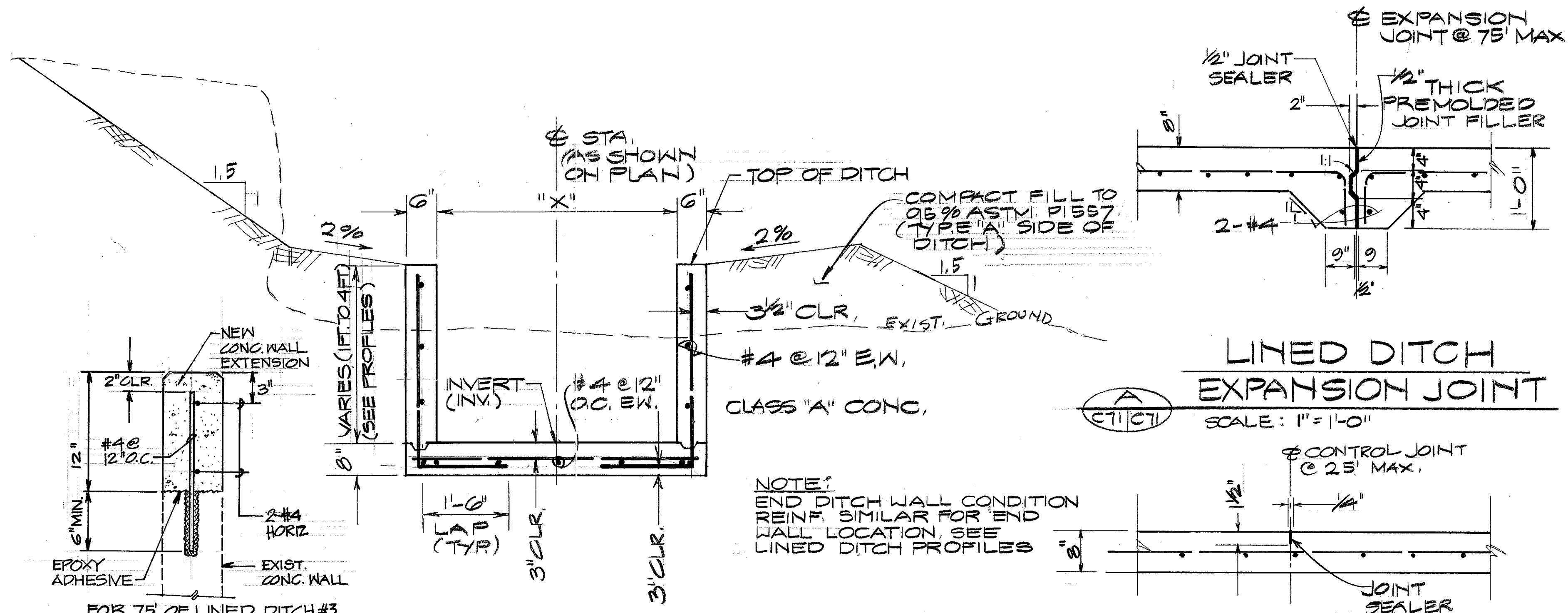
GRAPHIC SCALES:



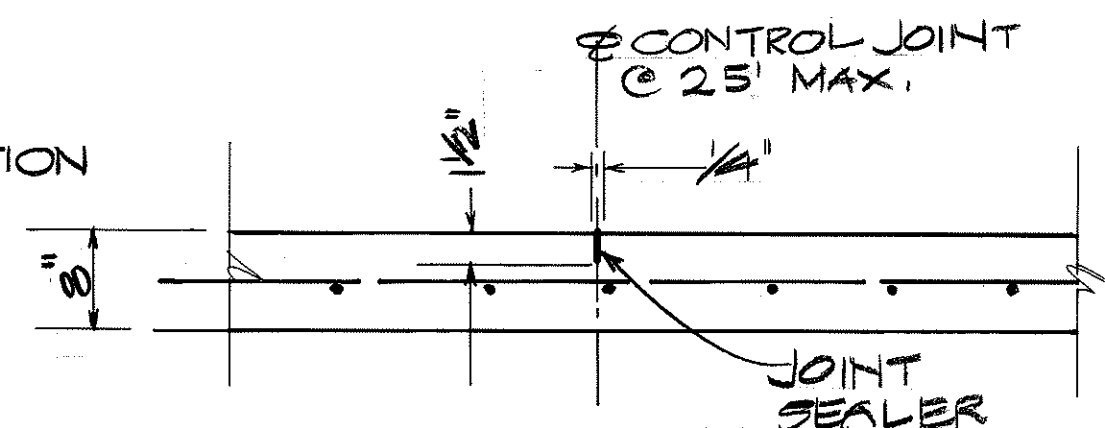
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.
SIGNATURE DATE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
LINED DITCH TRANSITION DETAILS
INTERSTATE ROUTE H-3 F.A.I. PROJECT NO. I-H3-1(69) 8 (70)
SCALE: AS SHOWN DATE: MARCH, 1992
SHEET NO. C70 OF 95 SHEETS

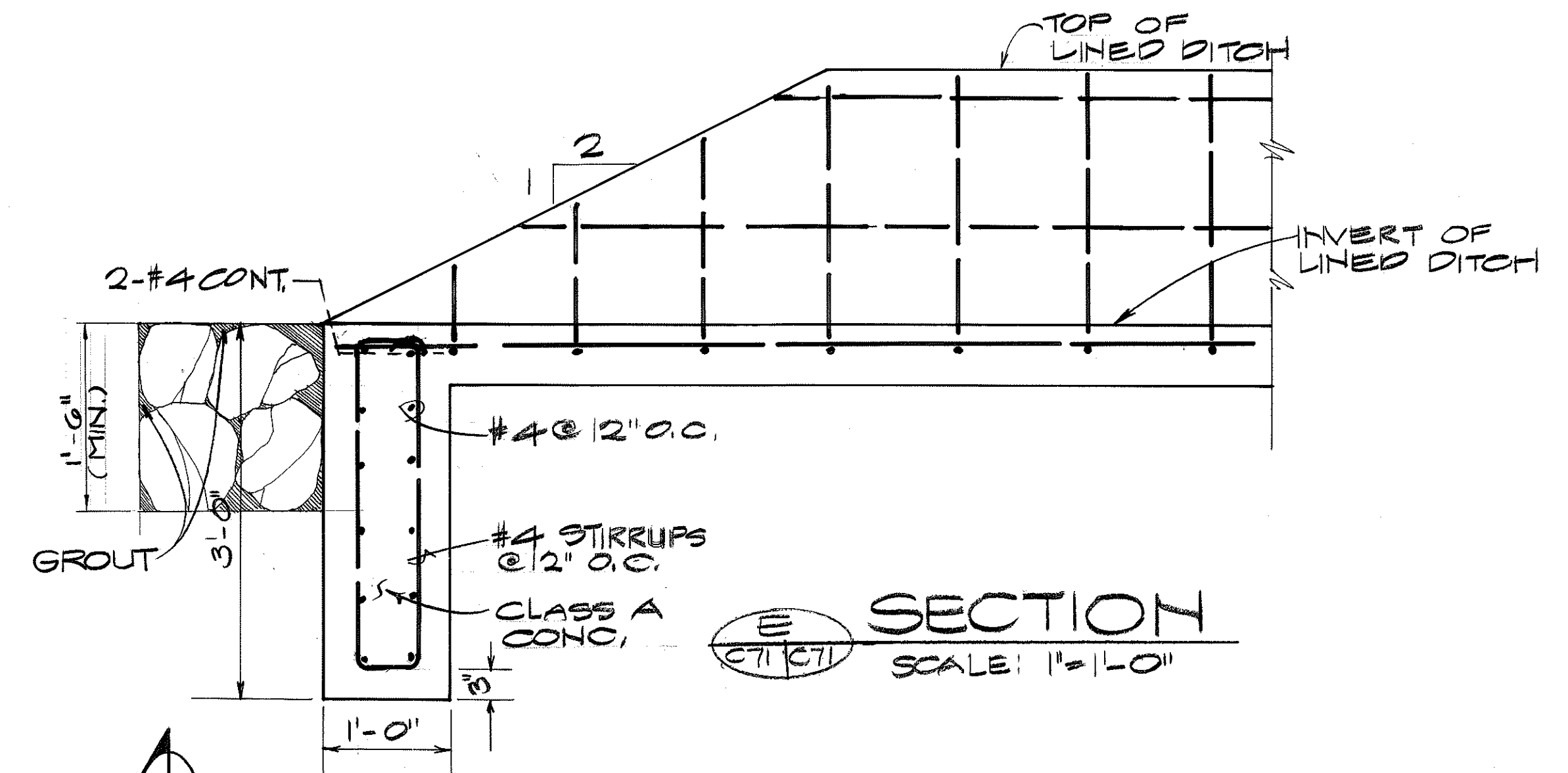
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(69)	1992	74	325



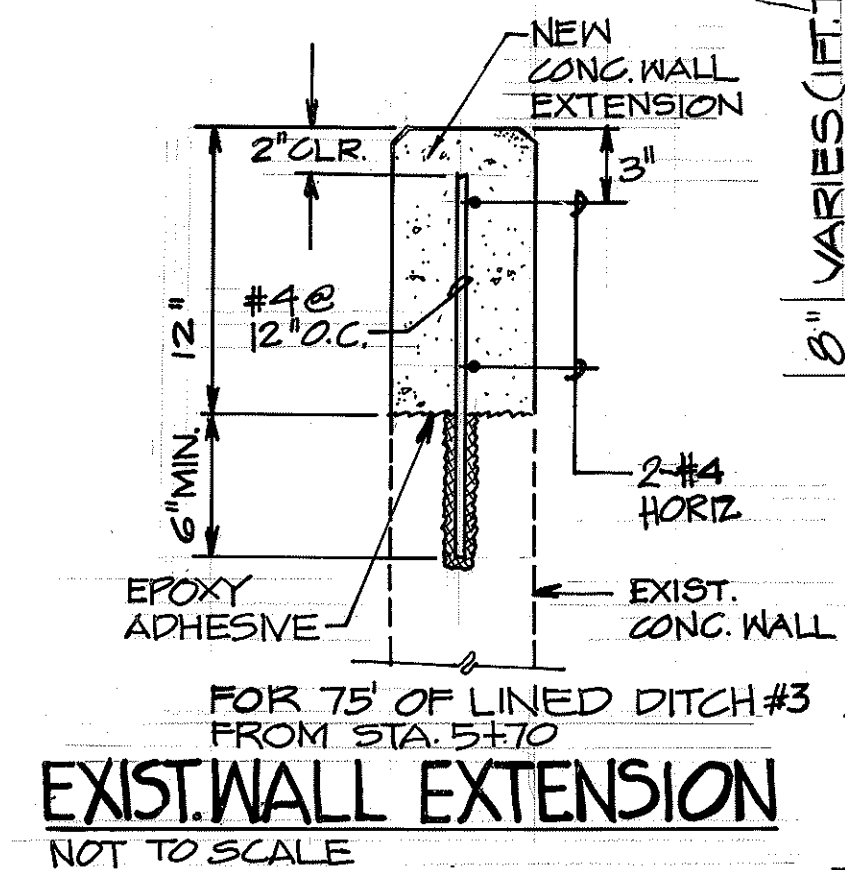
A LINED DITCH EXPANSION JOINT
SCALE: 1" = 1'-0"



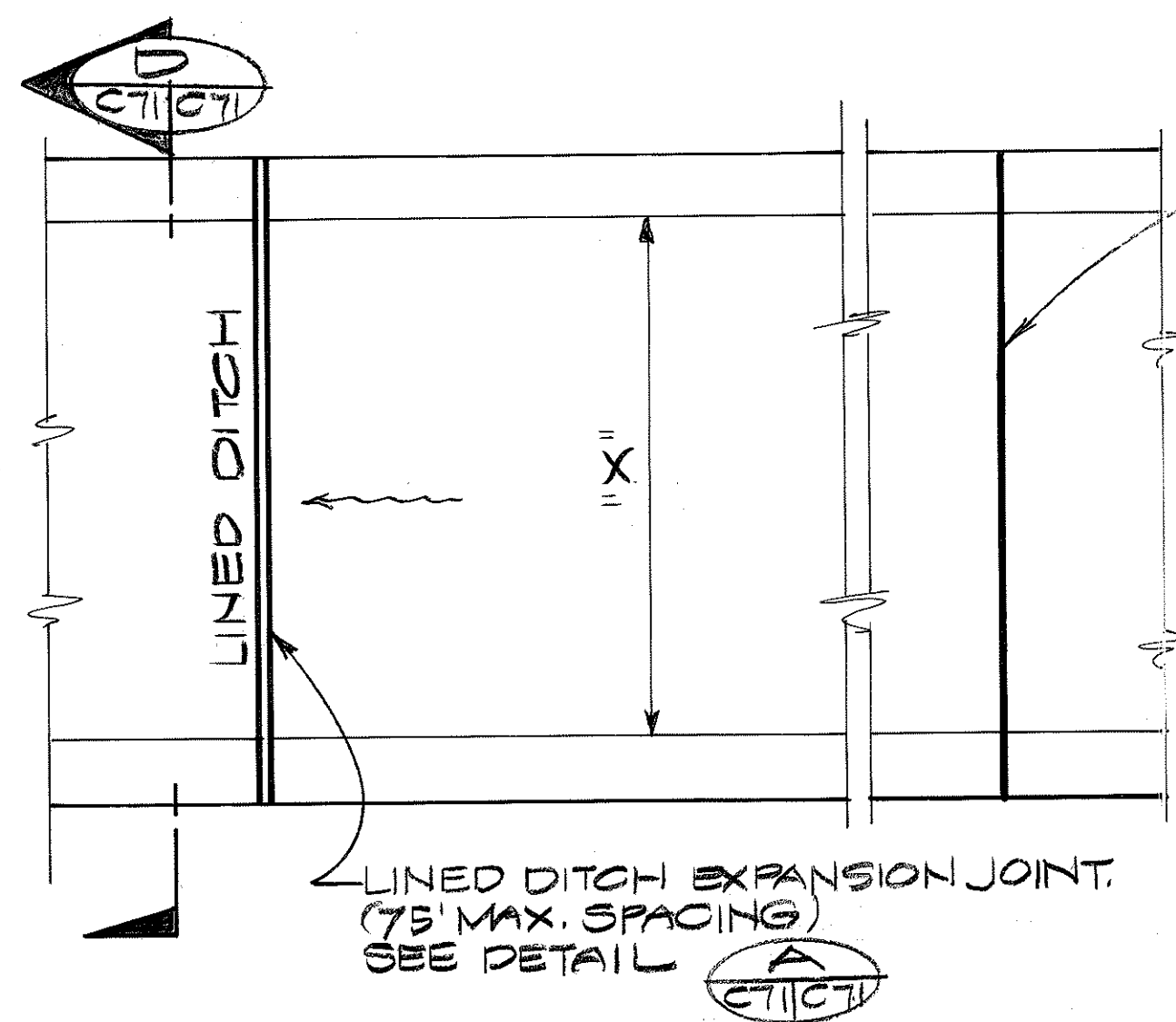
B CONTROL JOINT
SCALE: 1" = 1'-0"



E SECTION
SCALE: 1" = 1'-0"

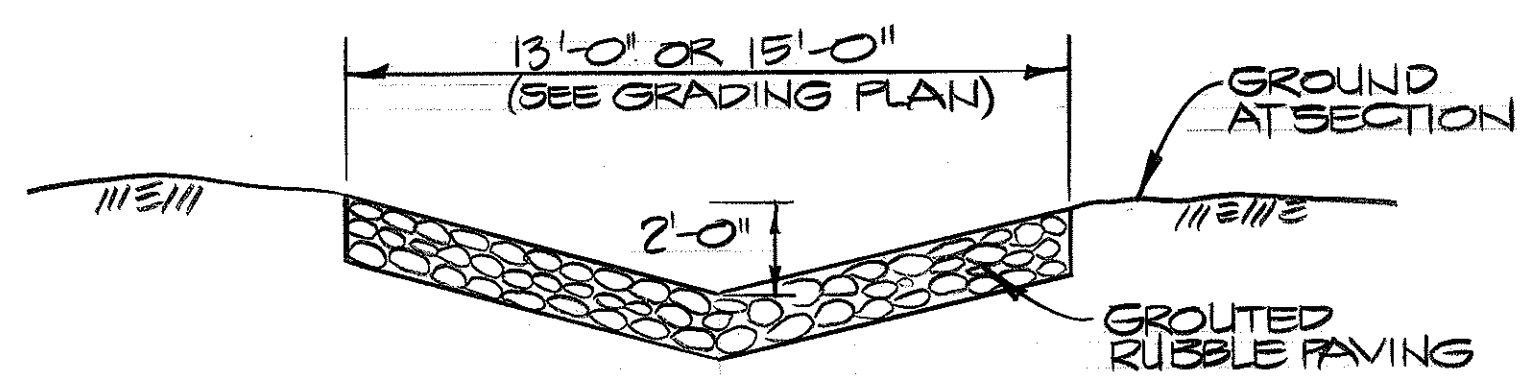


D SECTION
SCALE: 3/4" = 1'-0"

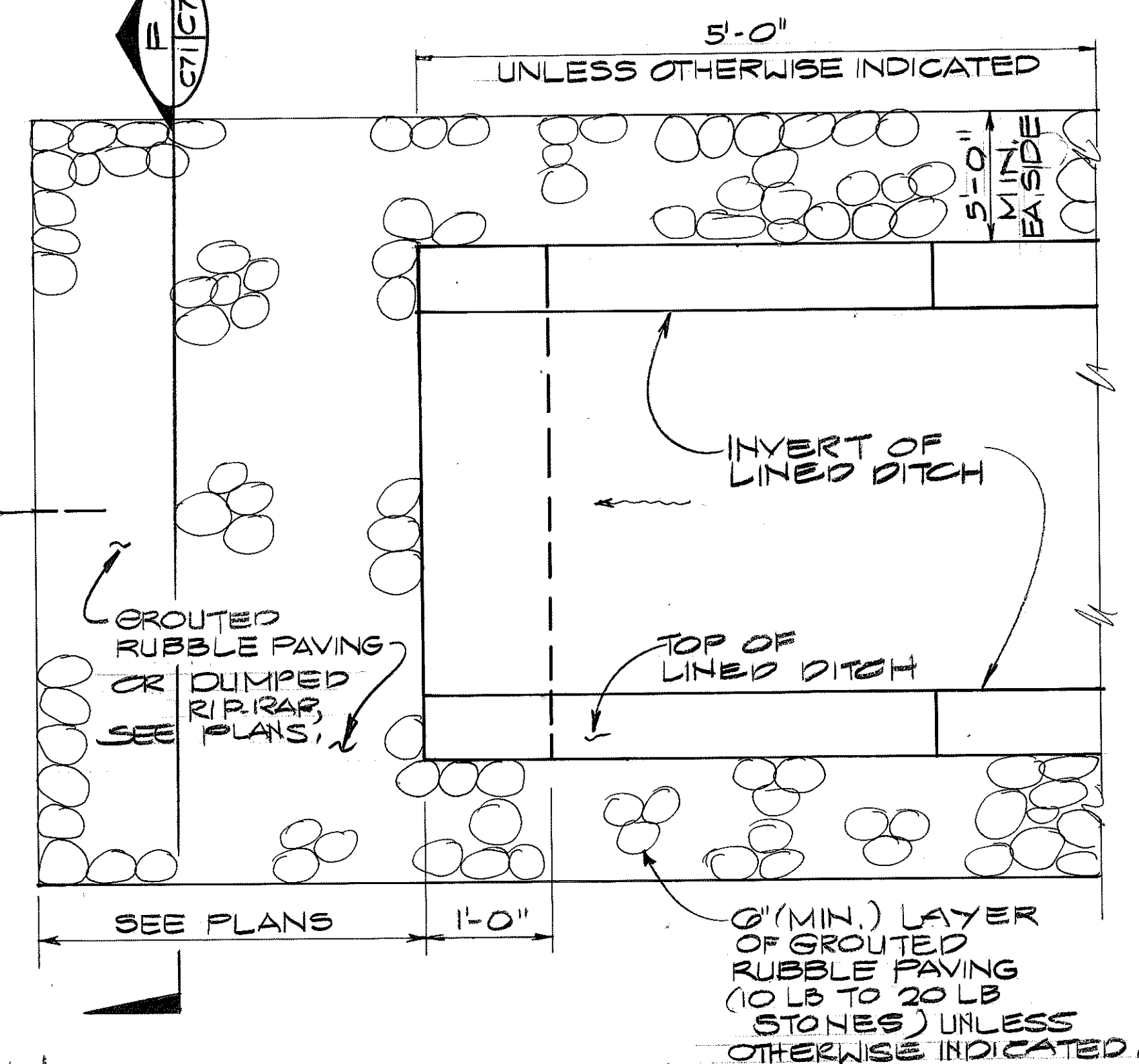


LINED DITCH PLAN
SCALE: 3/4" = 1'-0"

LINED DITCH NO.	"X" (FT)
1	4
2	2
3	4
4	4
5	2
6	2
7	2
8	4

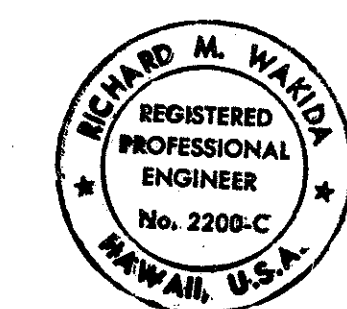
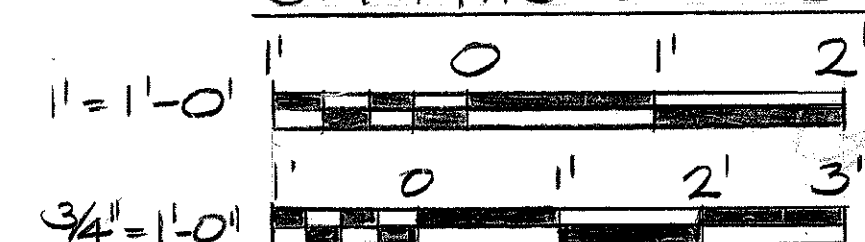


F LINED DITCH OUTLET SECTION
NOT TO SCALE



C LINED DITCH OUTLET PLAN
NOT TO SCALE

GRAPHIC SCALES



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SIGNATURE DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL LINED DITCH DETAILS

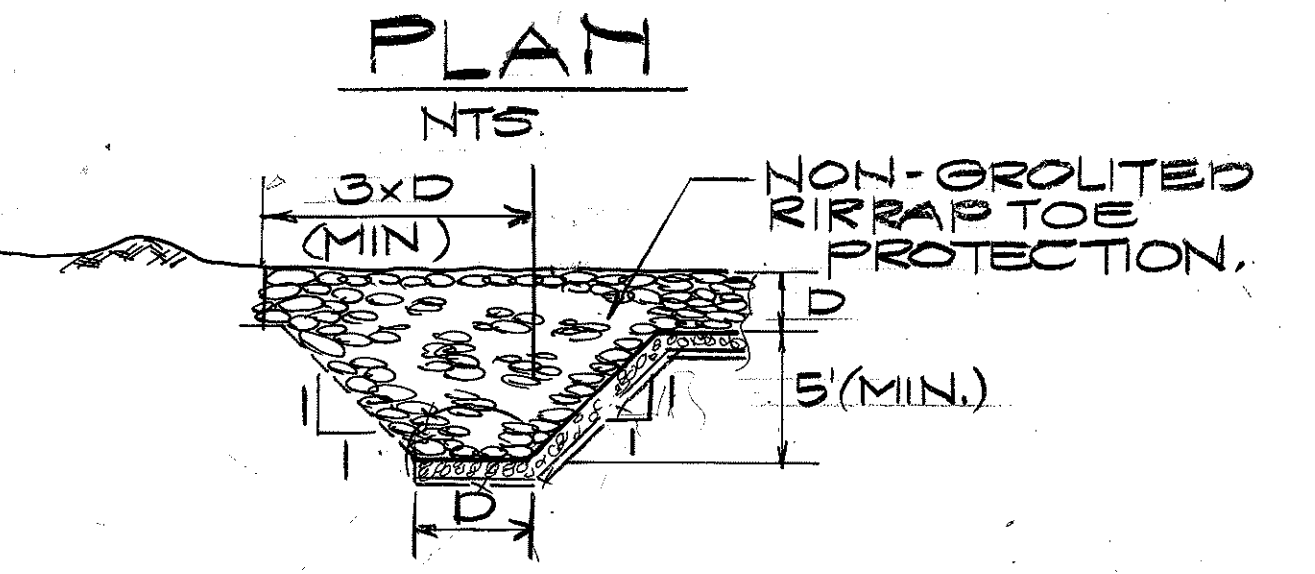
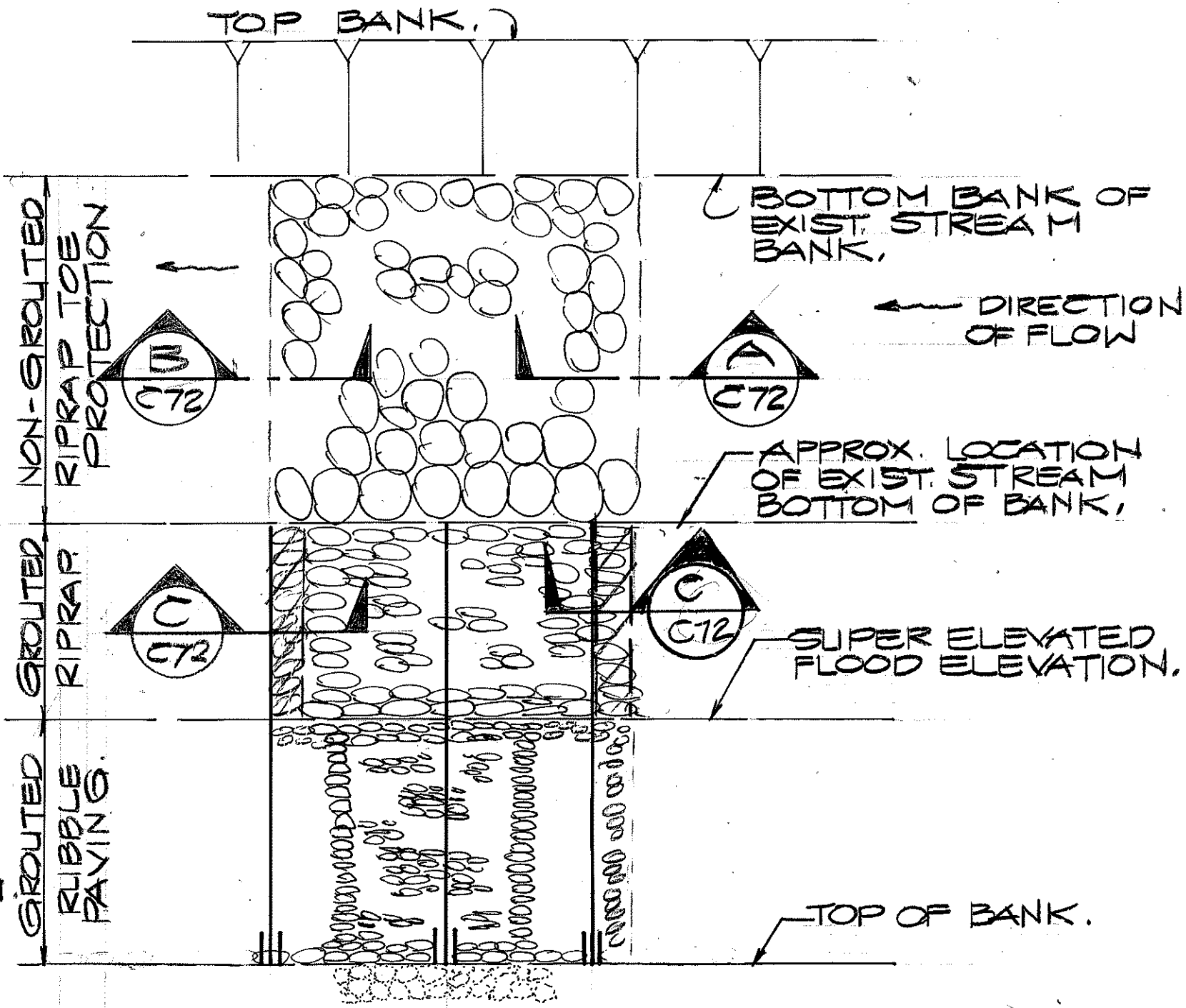
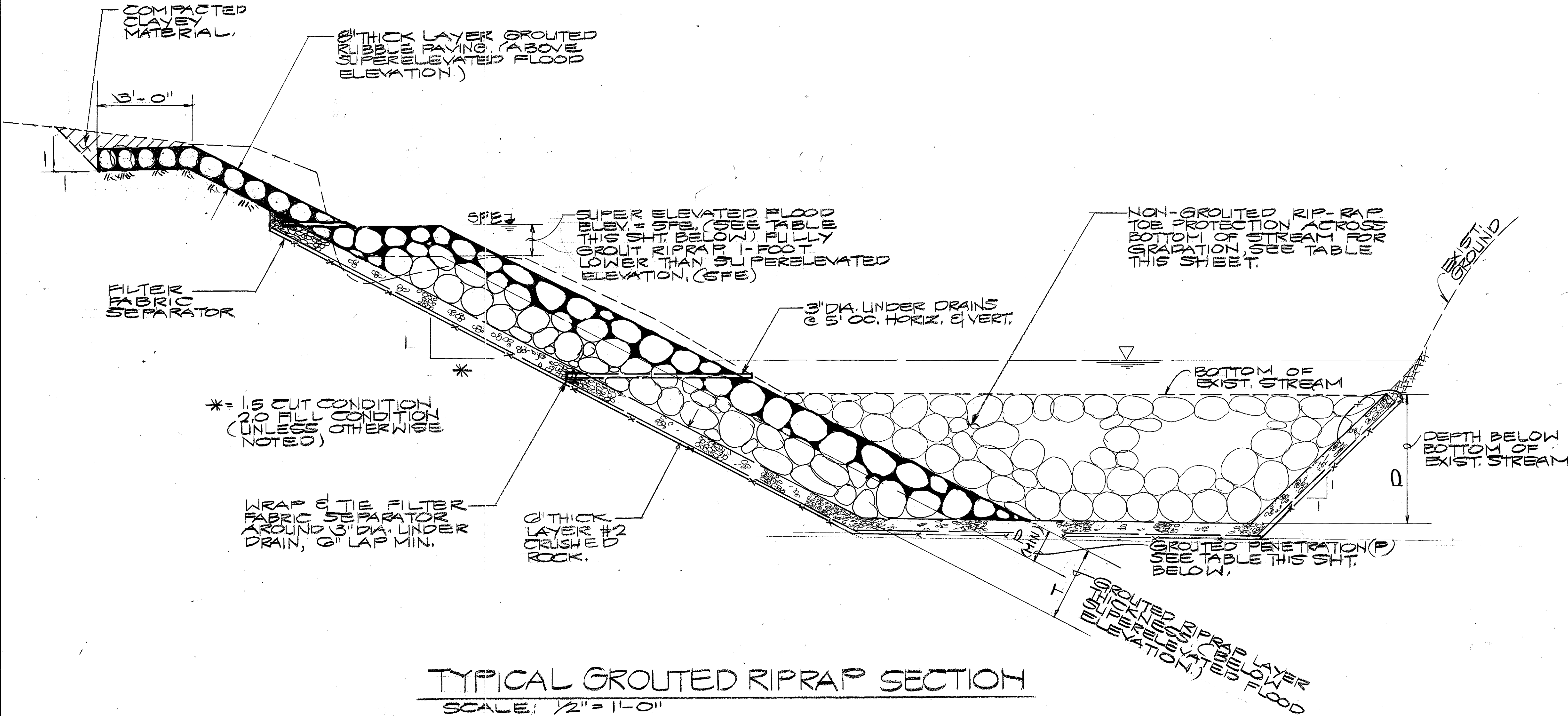
INTERSTATE ROUTE H-3
F.A.I. PROJECT NO. I-H3-1(69) & (70)

SCALE: AS SHOWN DATE: MARCH, 1992

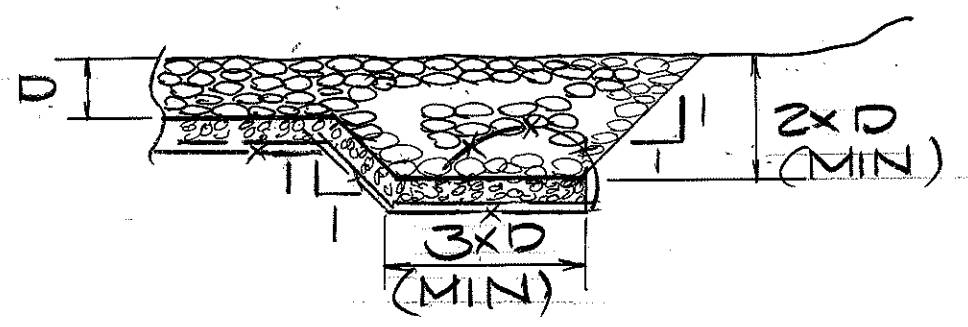
SHEET No. C71 OF 95 SHEETS

ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

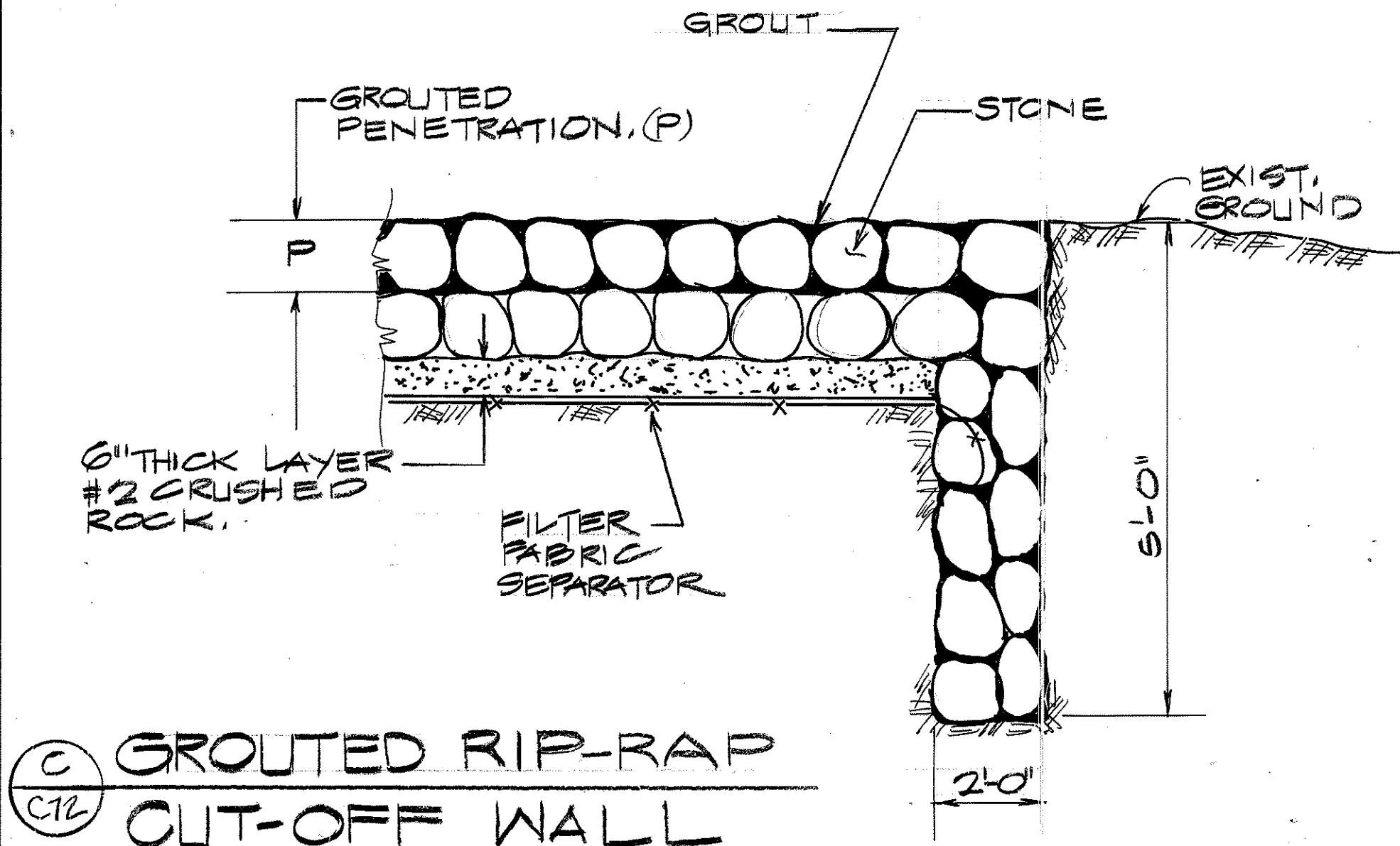
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(69)	1992	75	925



A. DOWNSTREAM SECTION
NTS.

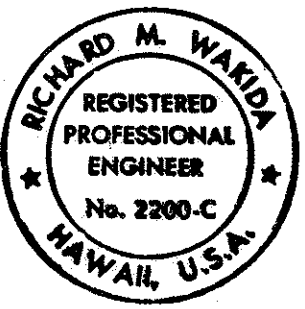


B. UPSTREAM SECTION
NTS.



C. GROUTED RIP-RAP CUT-OFF WALL
NOT TO SCALE

DESCRIPTION	GROUTED RIPRAP				NON-GROUTED RIPRAP TOE PROTECTION	
	GRADATION TYPE	T	P	GRADATION TYPE	D (FEET)	SUPERELEVATED FLOOD ELEVATION (SFE)
ABUTMENT 1	"AA"	2.0'	12"	"B"	4'	446.0'
AREA "A"	"AA"	2.0'	12"	"B"	4'	446.0'
ABUTMENT 2	"BB"	1.5'	12"	"C"	3'	502.0'
ABUTMENT 3	"AA"	2.0'	12"	"A"	5'	541.5'
AREA "B"	"AA"	2.0'	12"	"C"	3'	564.0'
ABUTMENT 4	GROUTED RUBBLE PAVING	8"	8"	—	—	—



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SIGNATURE DATE

11-5-93	REVISED ENTIRE SHEET.
10-21-93	REVISED RIPRAP
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
GROUTED RUBBLE PAVING DETAILS	
INTERSTATE ROUTE H-3 F.A.I. PROJECT NO. I-H3-1(69) & (70)	
SCALE: AS SHOWN	DATE: MARCH, 1992
SHEET NO. C72 OF 95 SHEETS	