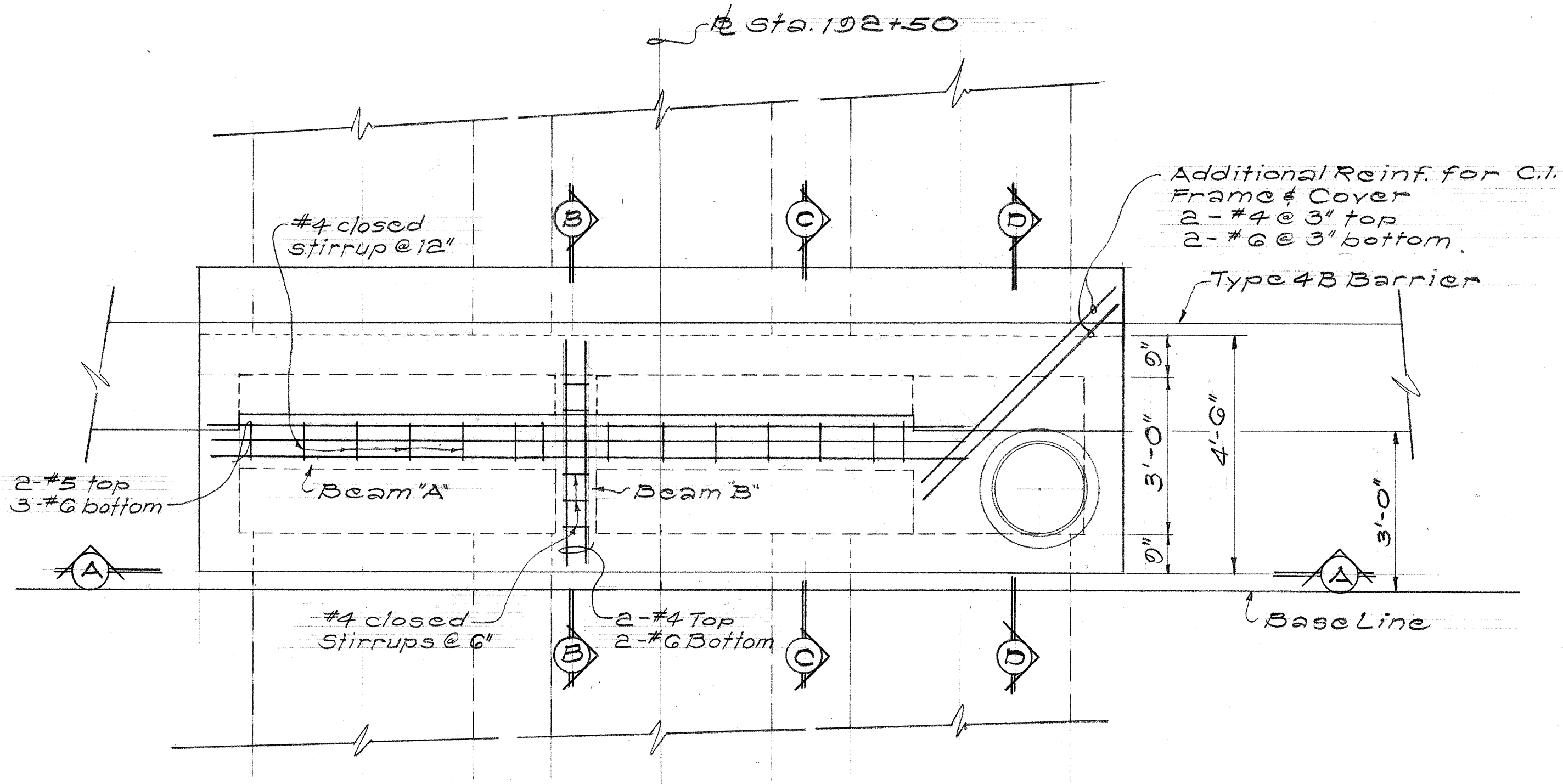
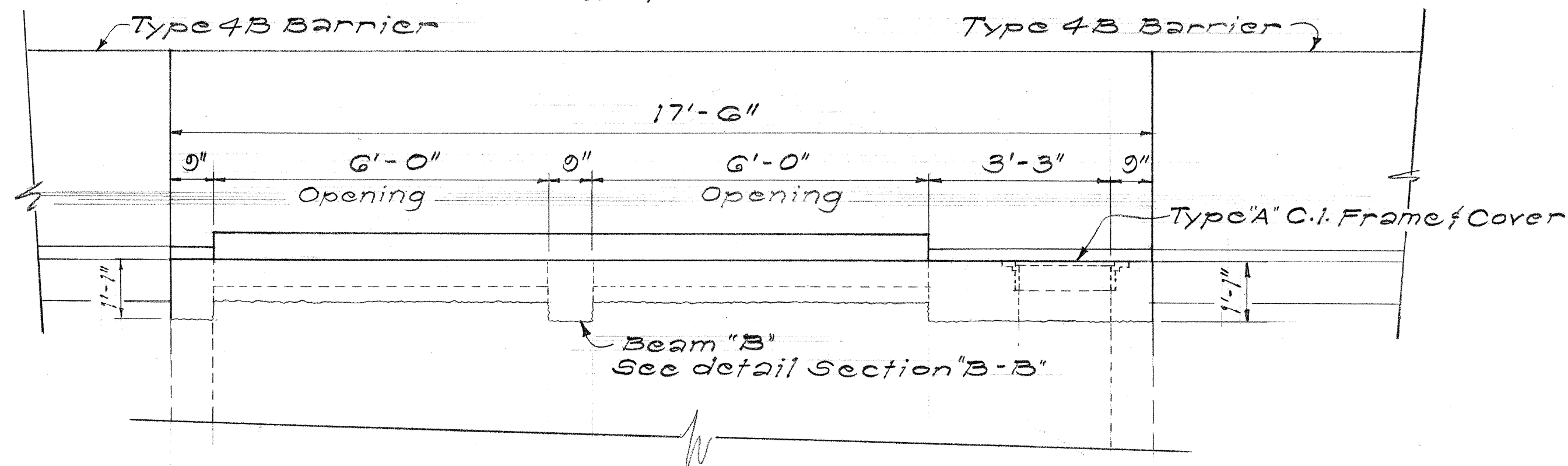


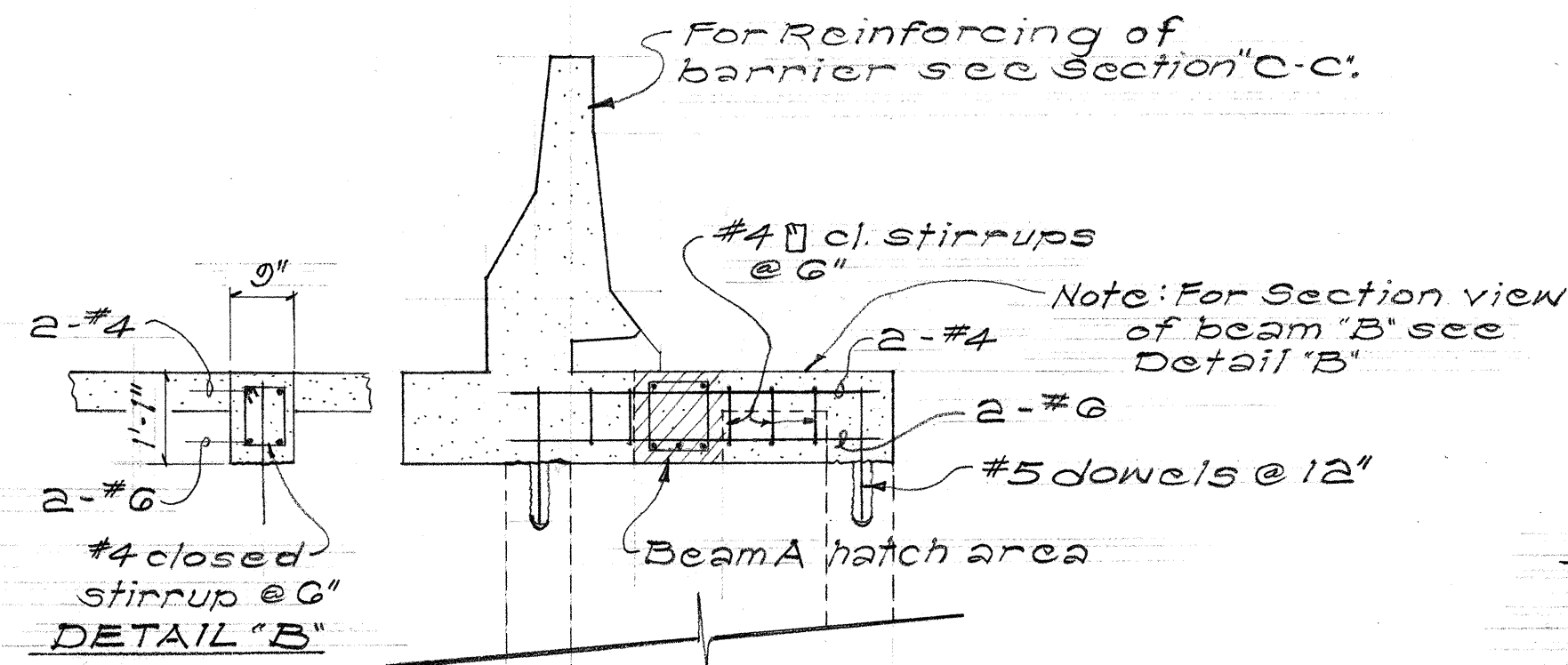
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-003-1(1)	1974	12	27



PLAN
Scale: 1/2" = 1'-0"



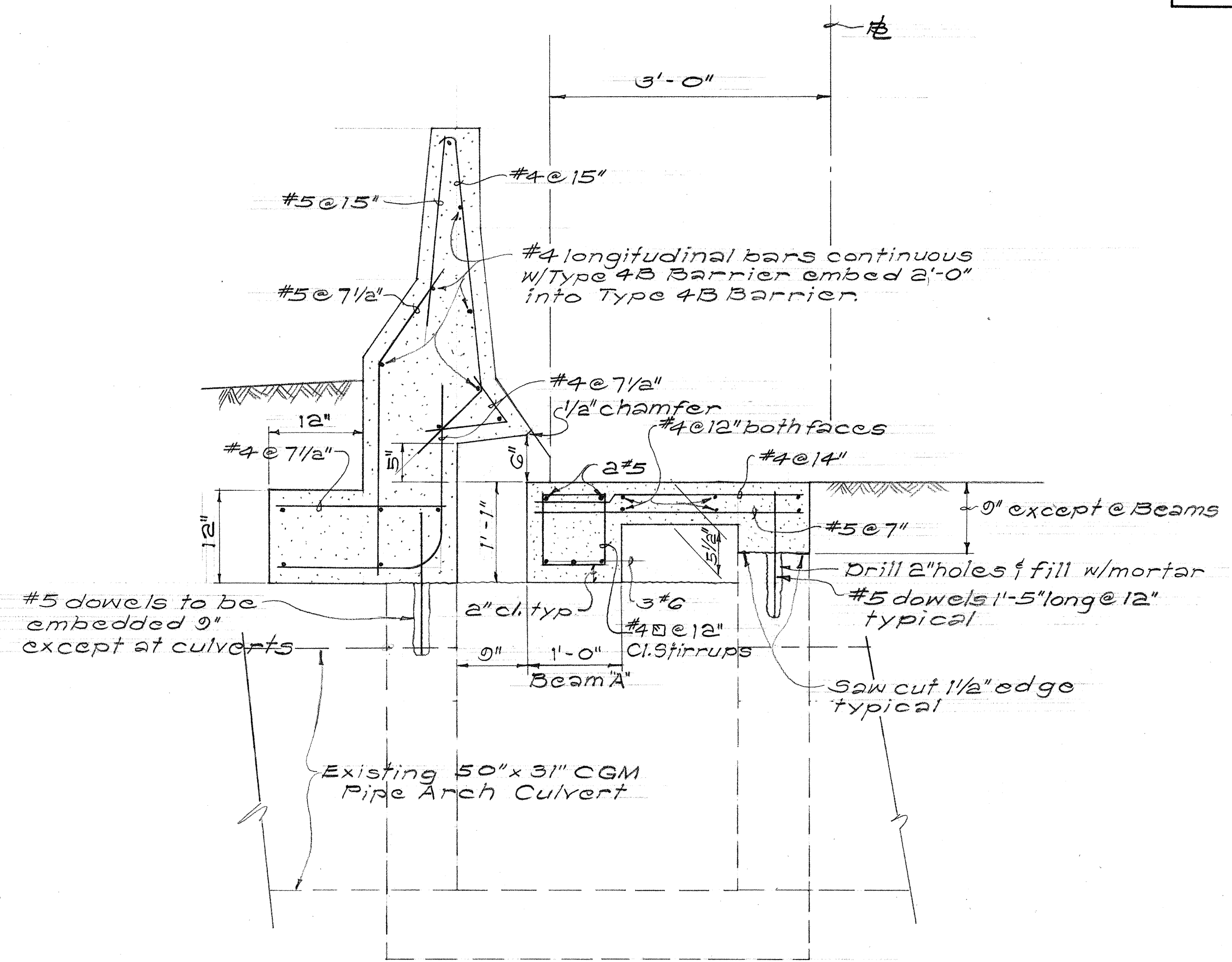
SECTION "A-A"
Scale: 1/2" = 1'-0"



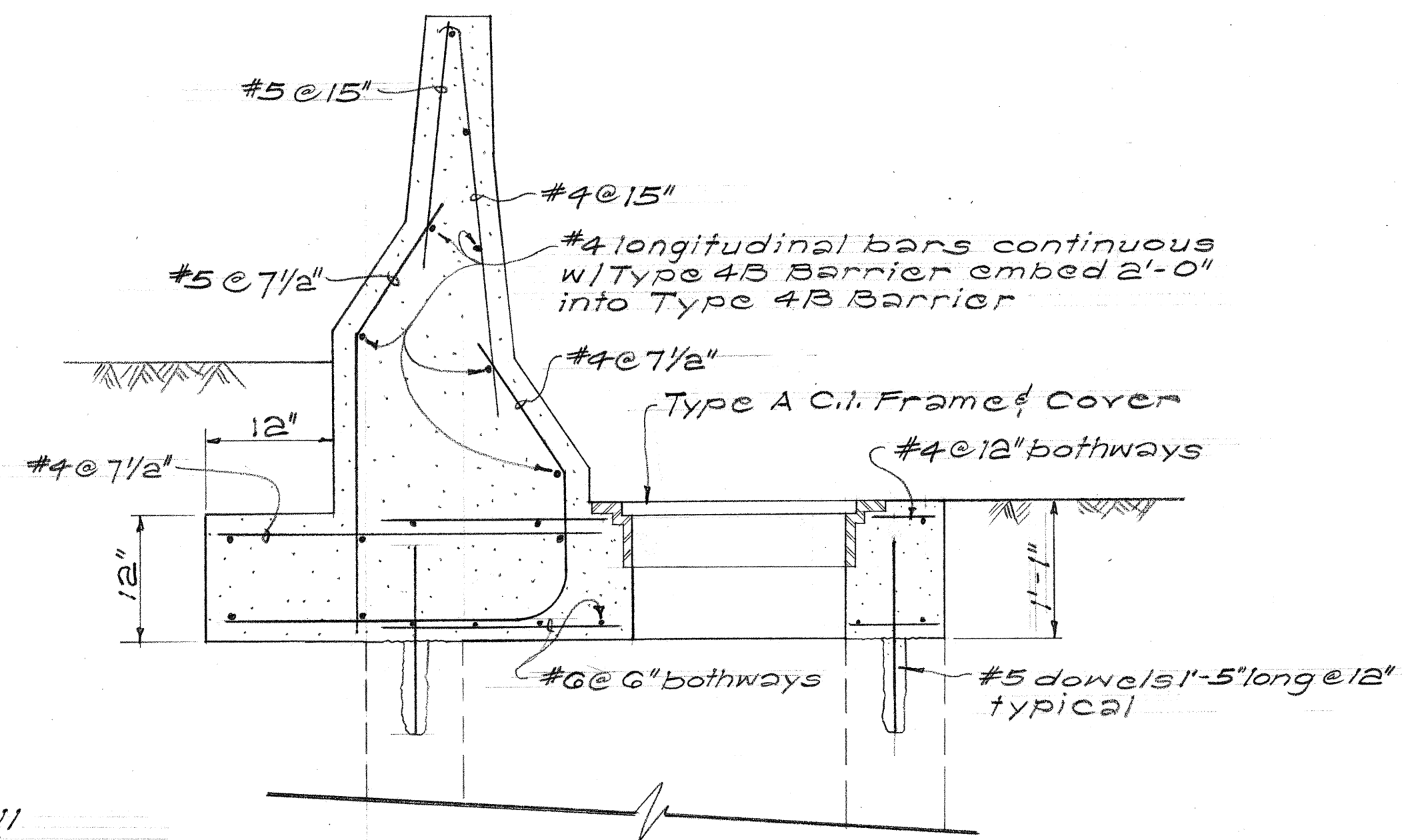
SECTION "B-B"
Scale: 1/2" = 1'-0"

NOTE: Except where noted all dimensions of the barrier at the structure shall conform to the Guard Rail Type 4 (Rigid Barrier)

MODIFICATION OF CDI IN MEDIAN @ STA. 192+50±



SECTION "C-C"
Scale: 1" = 1'-0"



SECTION "D-D"
Scale: 1" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

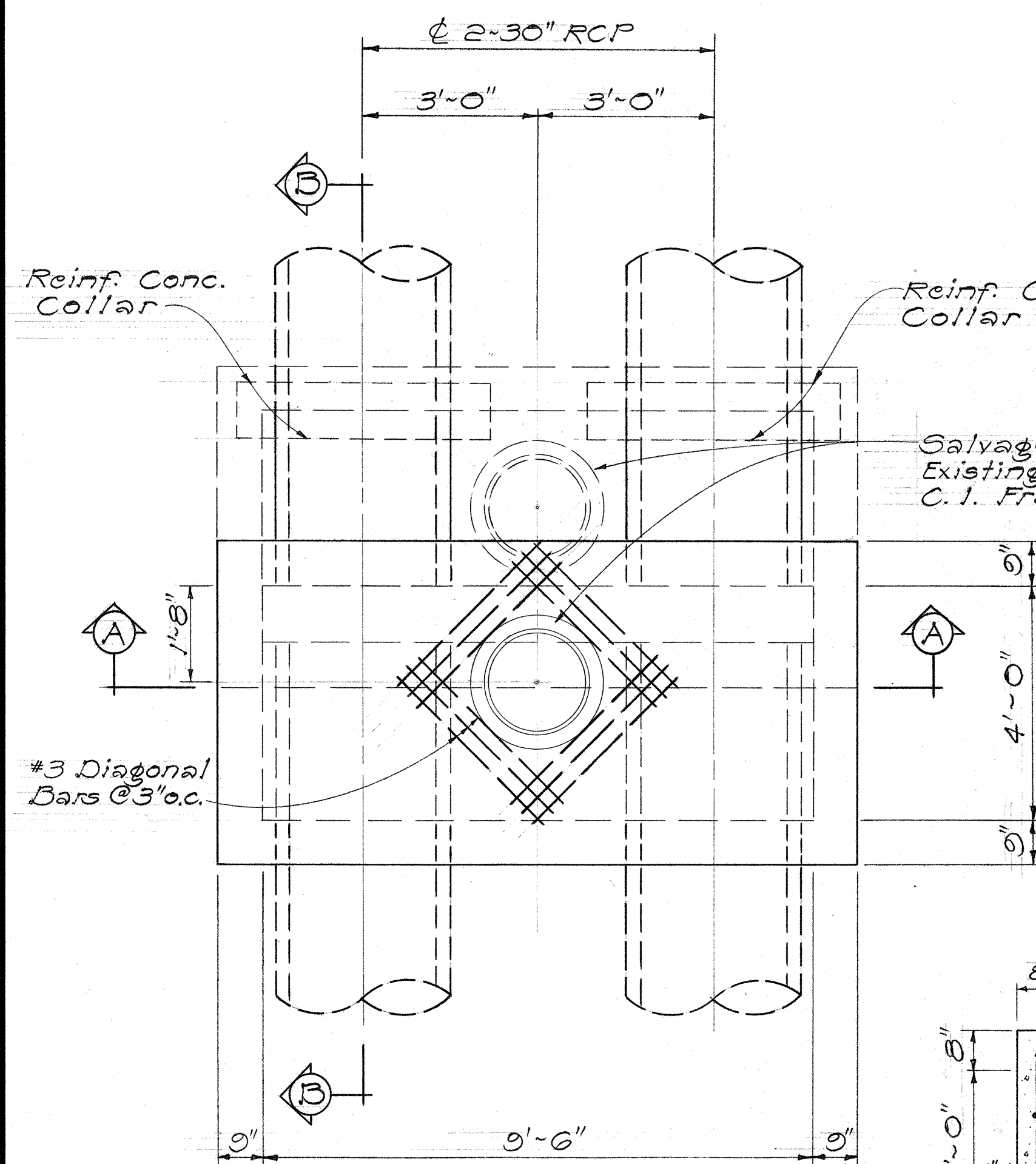
Modification of CDI
in Median @ Sta. 192+50±

Farrington Highway - Safety Improvements
Proj No. F-003-1(1)

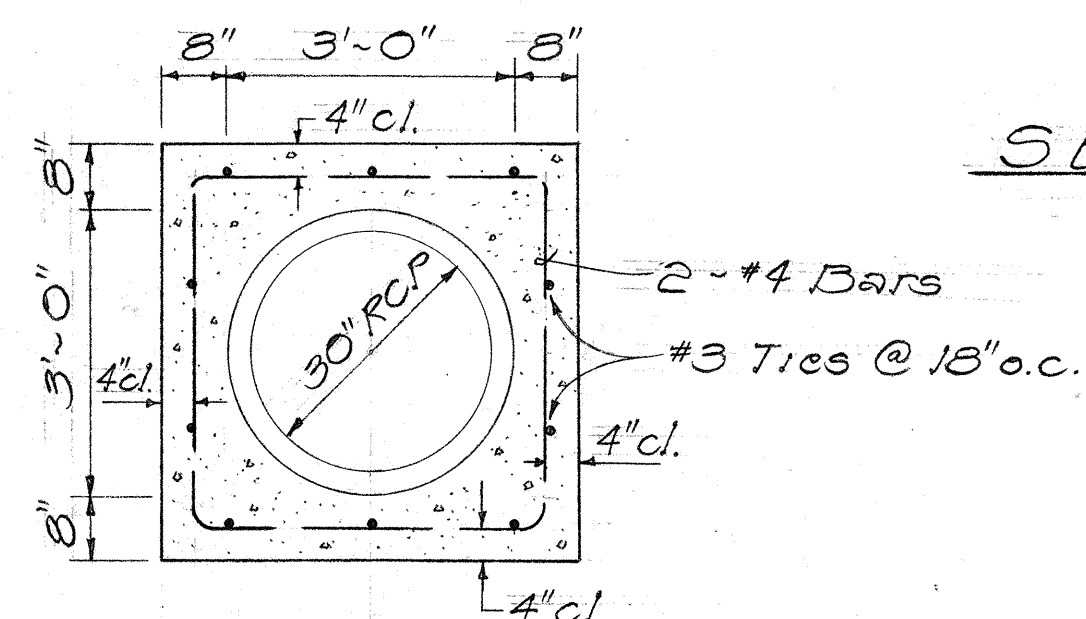
Scale: As Shown Date: Oct. 1973

SHEET NO. 1 OF 3 SHEETS

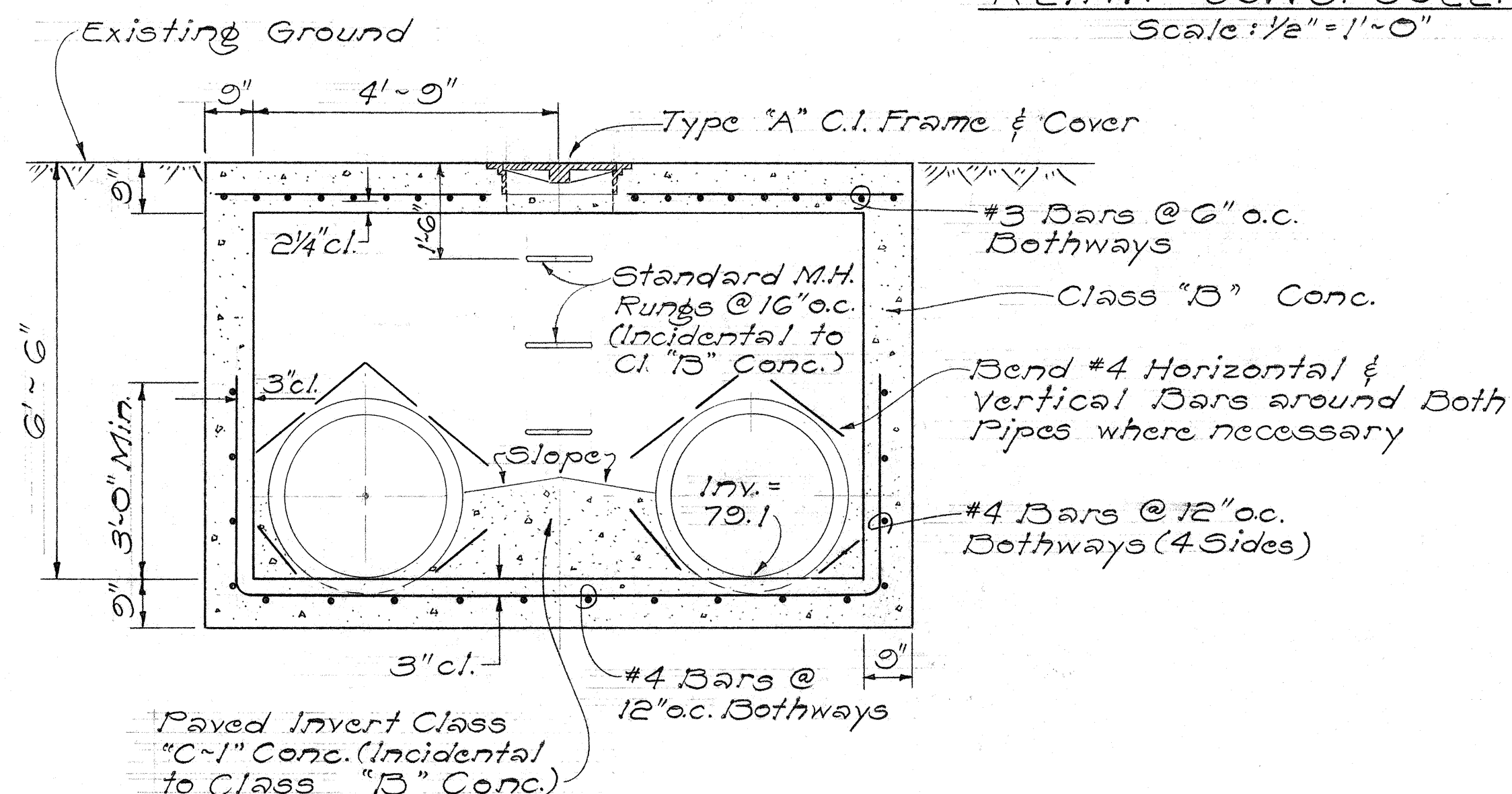
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-003-1(1)	1974	13	27



PLAN
Scale: 1/2"=1'-0"

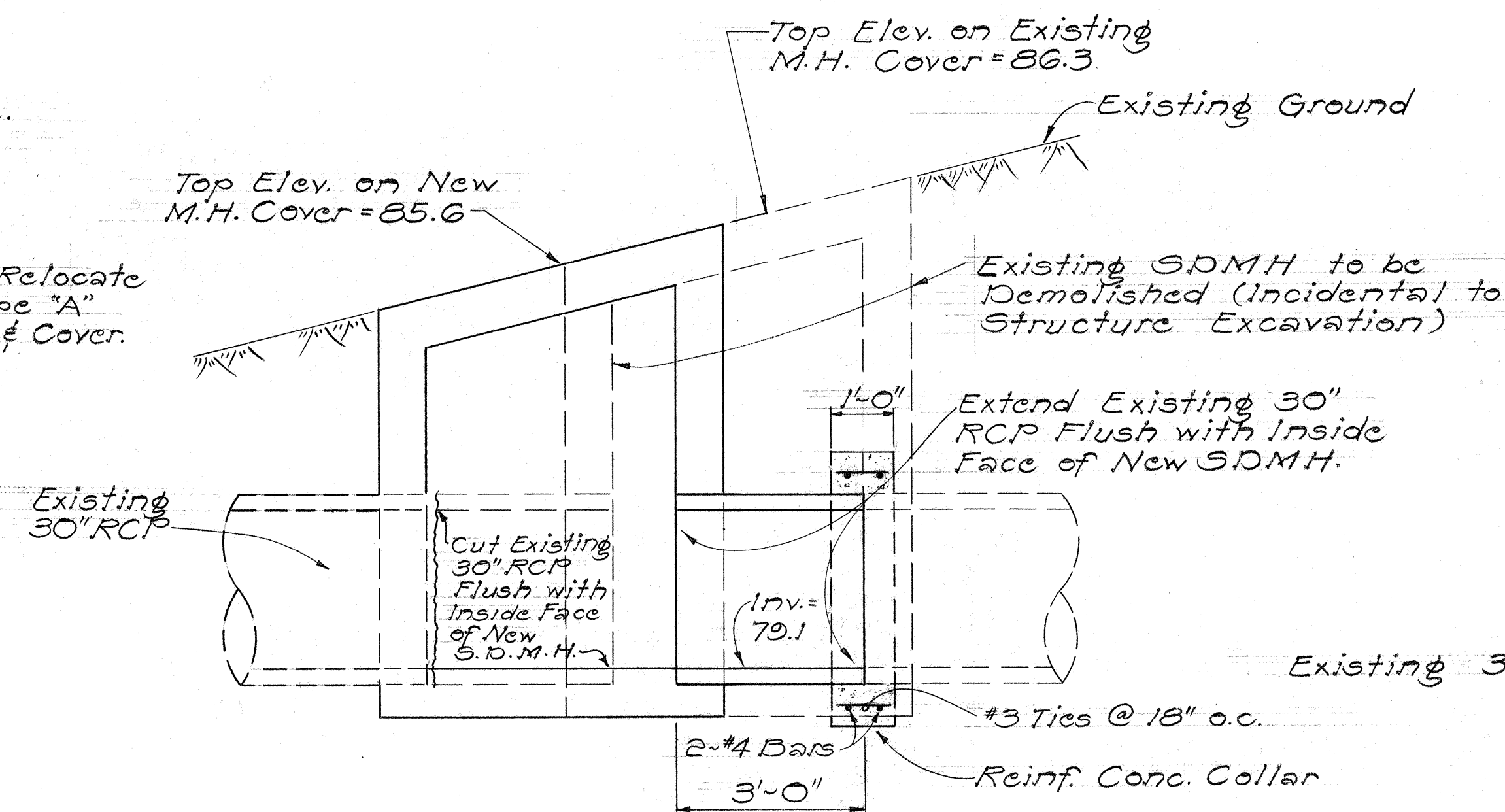


REINF. CONC. COLLAR
Scale: 1/2"=1'-0"

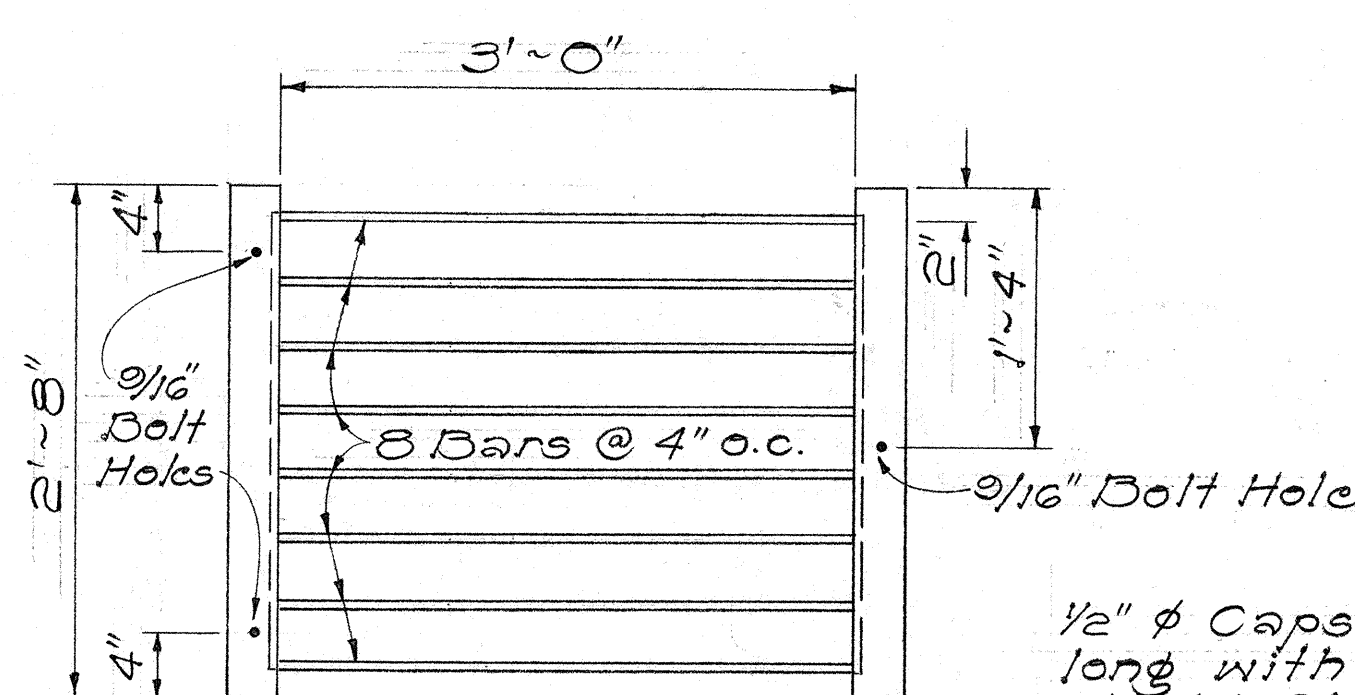


SECTION "A-A"
Scale: 1/2"=1'-0"

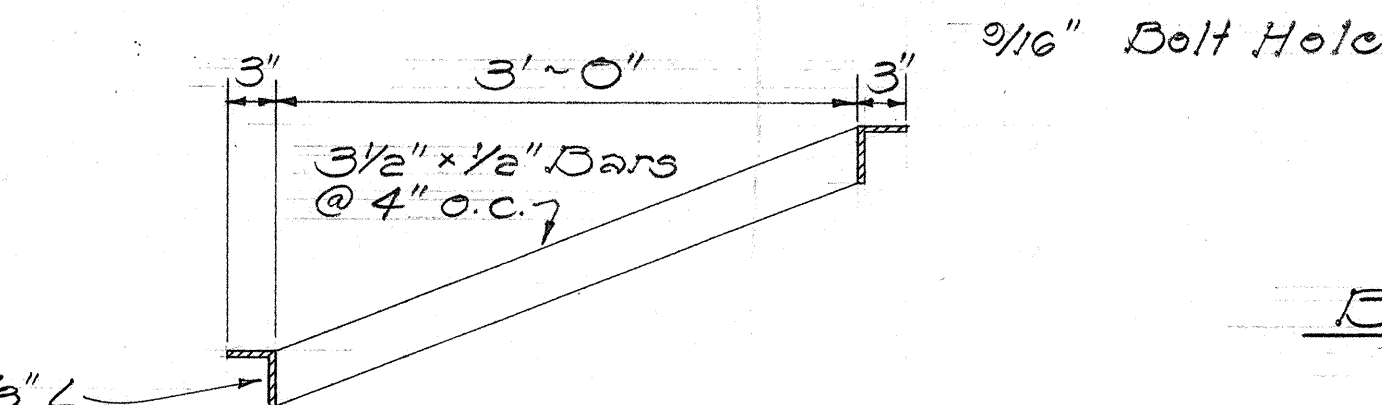
NEW S.D.M.H. IN MEDIAN
@ STA. 198+20 ±
Scale: As Shown



SECTION "B-B"
Scale: 1/2"=1'-0"

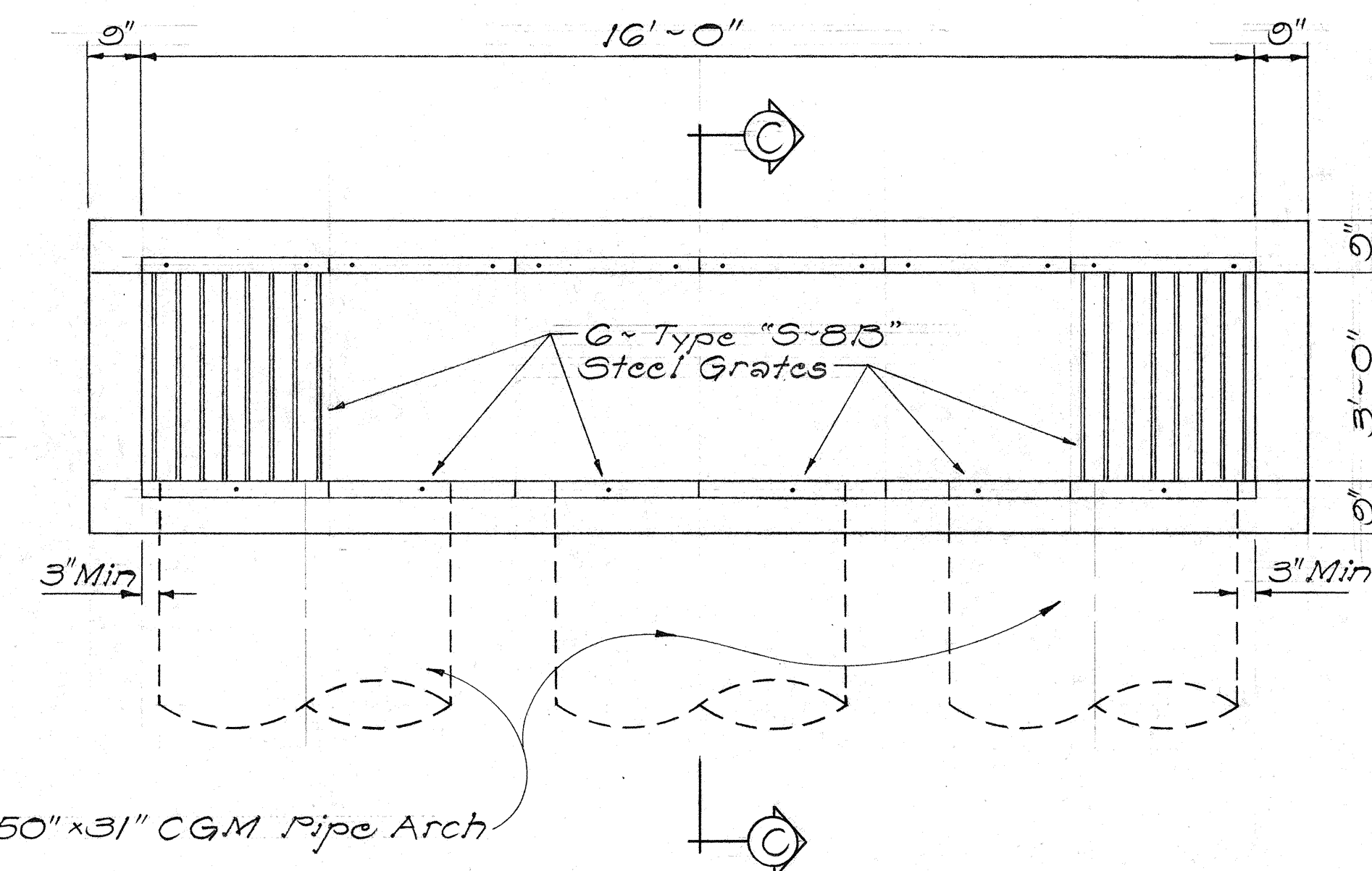


PLAN
Scale: 1"=1'-0"

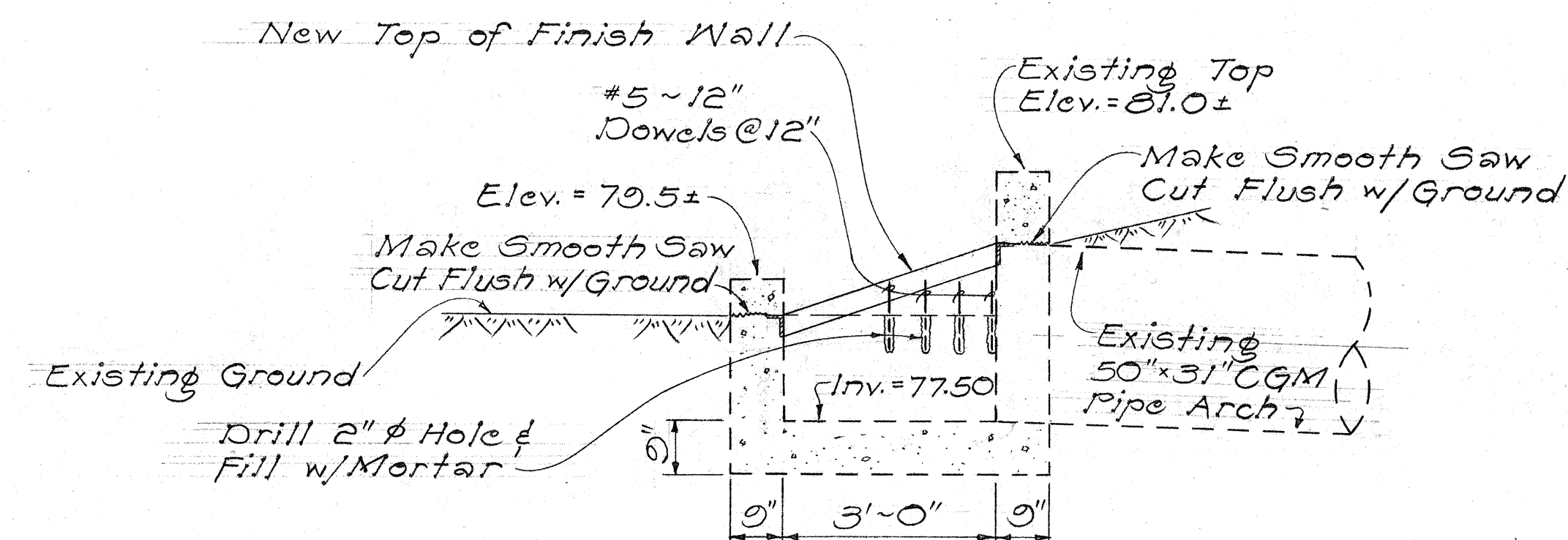


SECTION
Scale: 1"=1'-0"

DETAIL OF TYPE "S-B" STEEL GRATE
Scale: As Shown

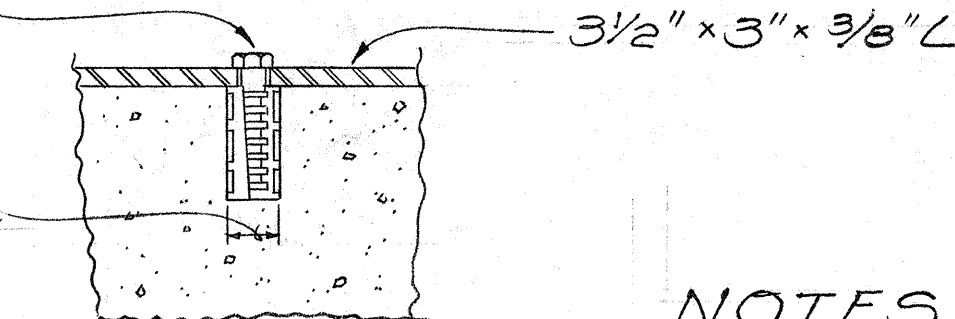


PLAN
Scale: 1/2"=1'-0"



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

MODIFICATION OF CDI AT INLET @ STA. 192+50 ± L.T.
Scale: As Shown



BOLT DETAIL
Scale: 3"=1'-0"

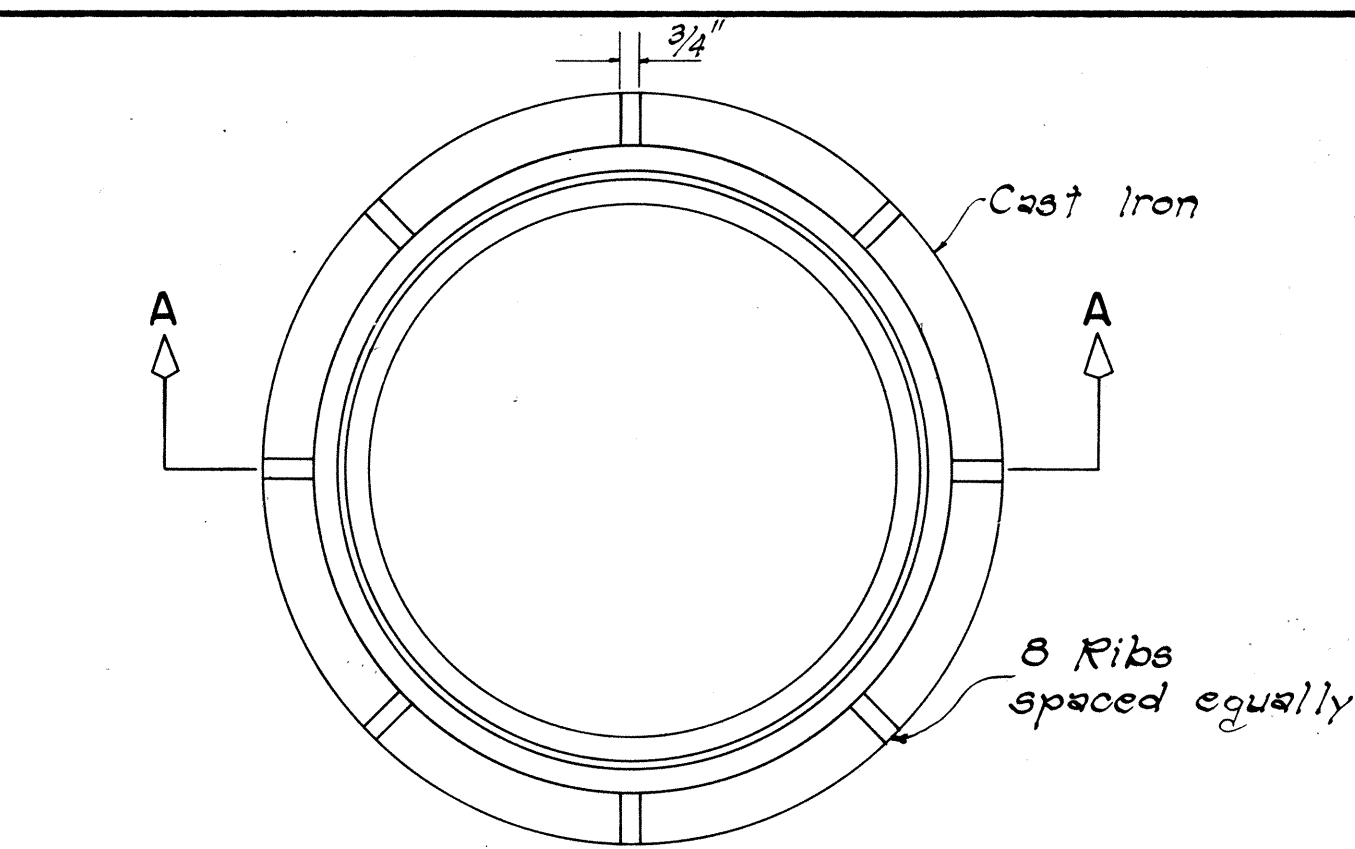
NOTES:

1. Grate shall be hot dip galvanized after fabrication, see specifications.
2. All welds 3/8" unless otherwise noted.
3. Grate materials shall conform to the specifications of ASTM Designation Structural Steel A283, Grade D and the Standard Specifications.

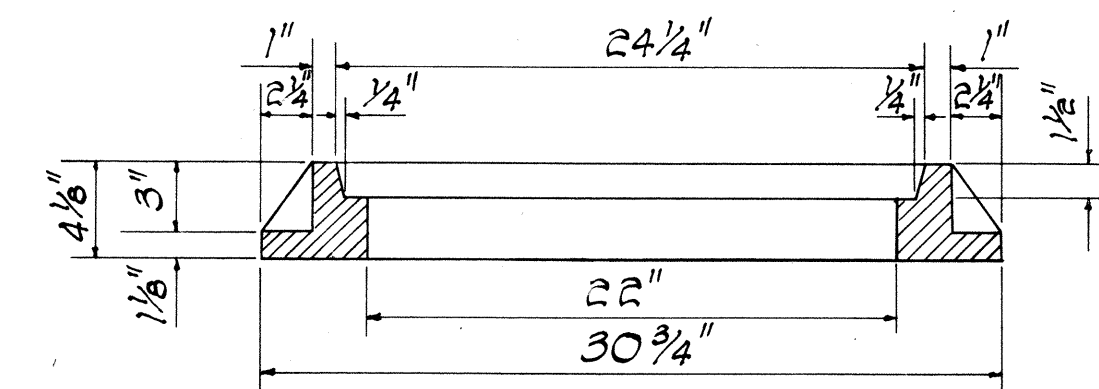
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DRAINAGE DETAILS
S.D.M.H., CDI, STEEL
GRATE, AND CONC. COLLAR
Farr. Hwy. - Safety Improvement
Proj. No. F-003-1(1)
Scale: As Shown Date: Oct. 1973

SHEET No. 2 OF 3 SHEETS

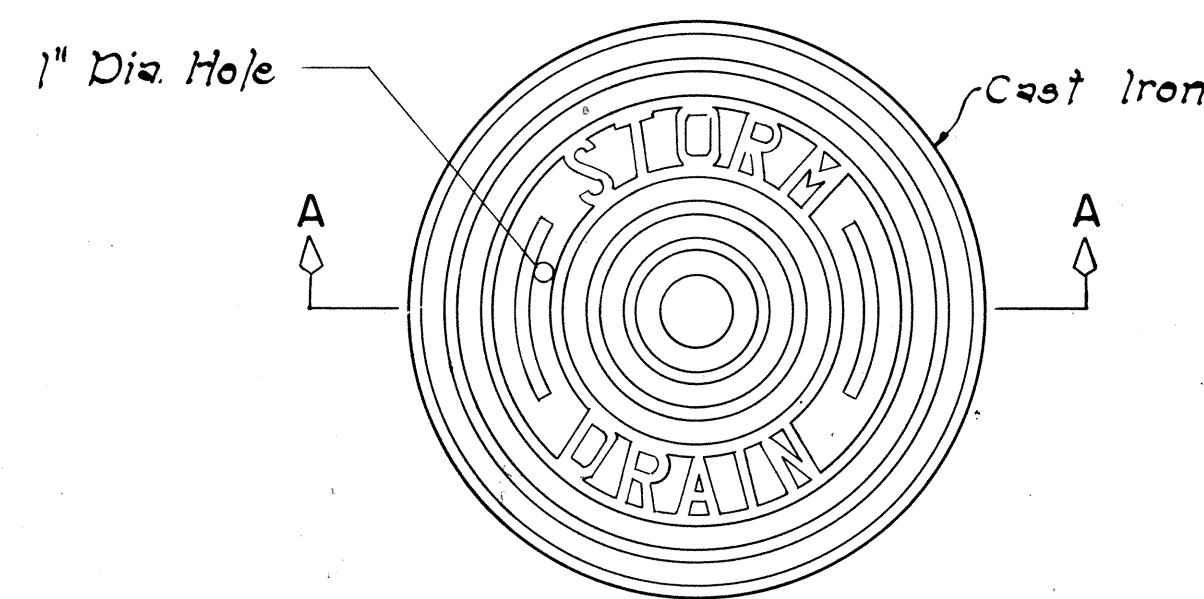
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-003-1(1)	1974	14	27



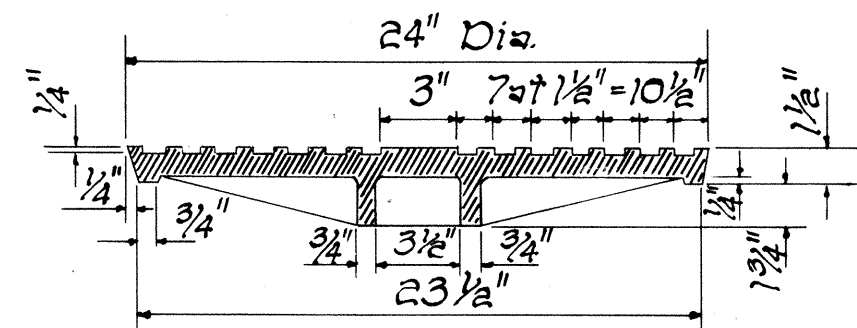
PLAN



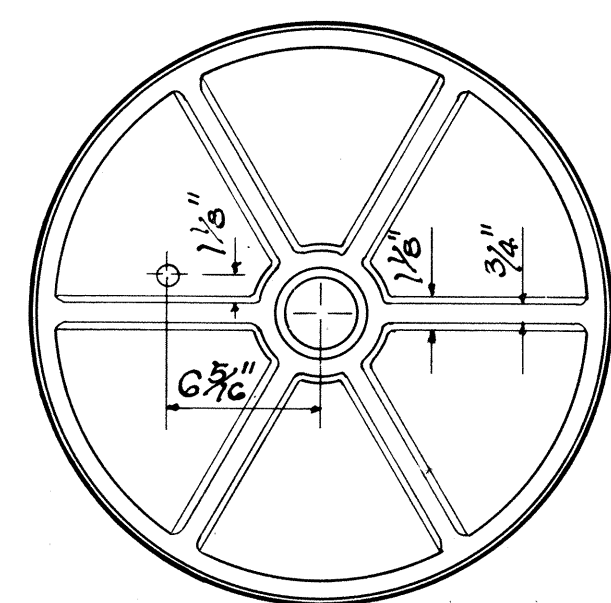
SECTION A-A



PLAN



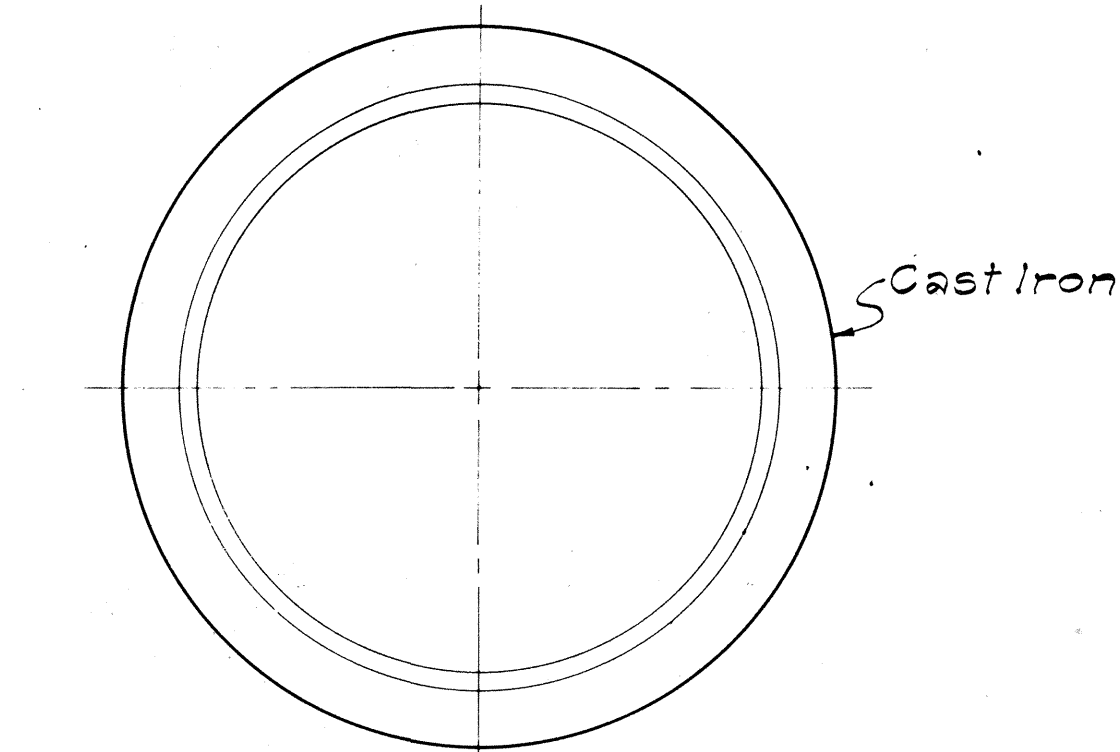
SECTION A-A



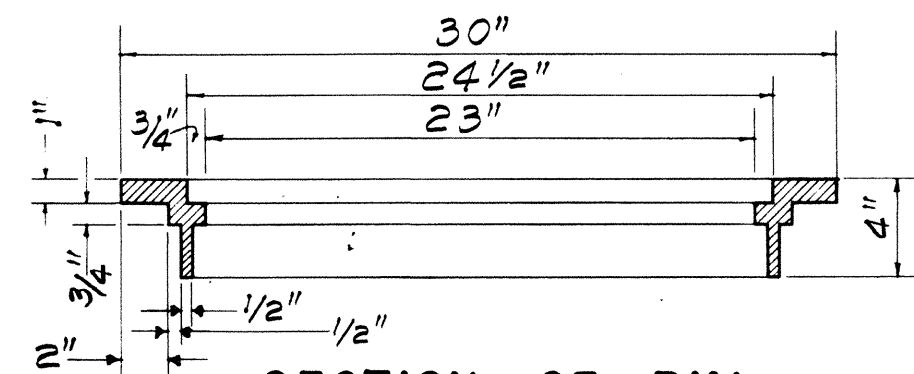
BOTTOM VIEW OF COVER

DETAILS OF TYPE "P"
CAST IRON FRAME AND COVER

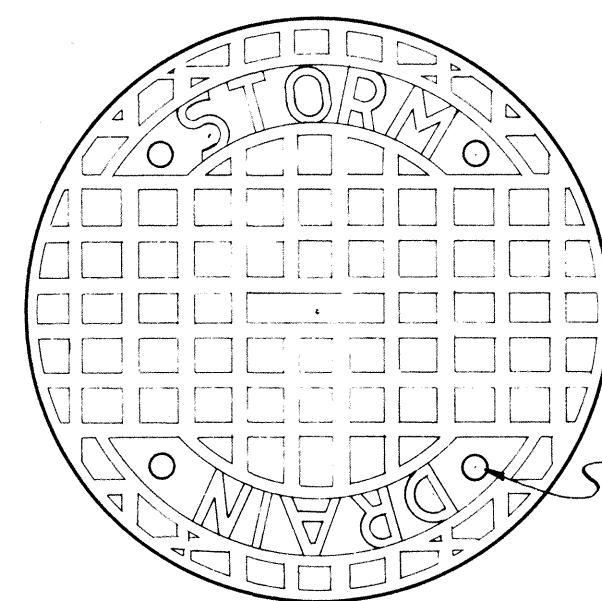
SCALE: 1-1/2" = 1'-0"



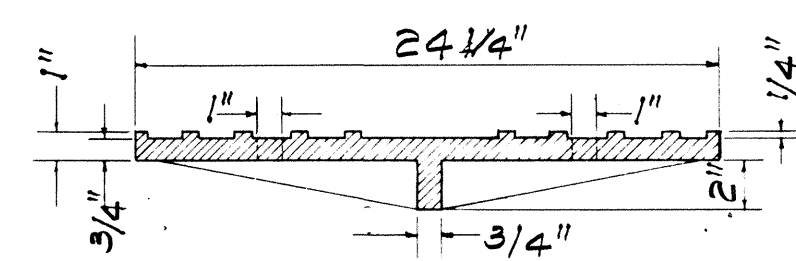
PLAN OF RIM



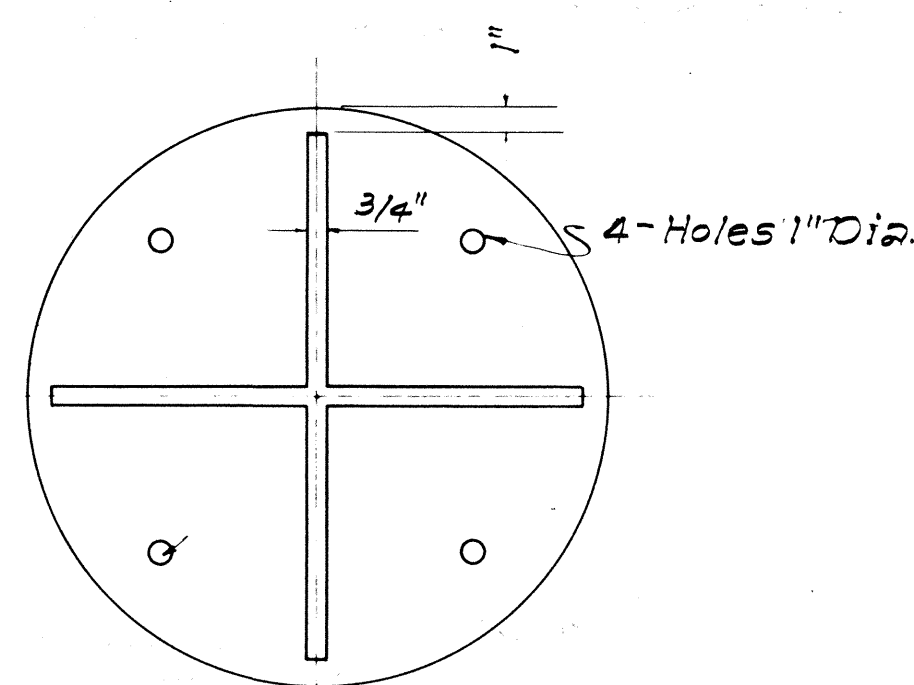
SECTION OF RIM



TOP VIEW OF COVER



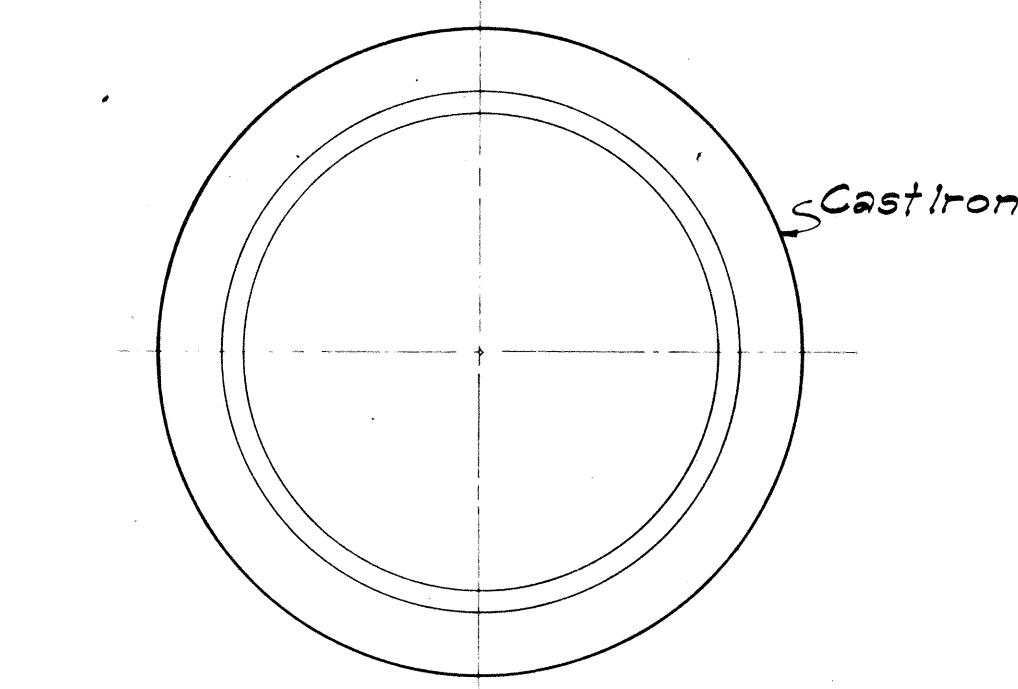
SECTION



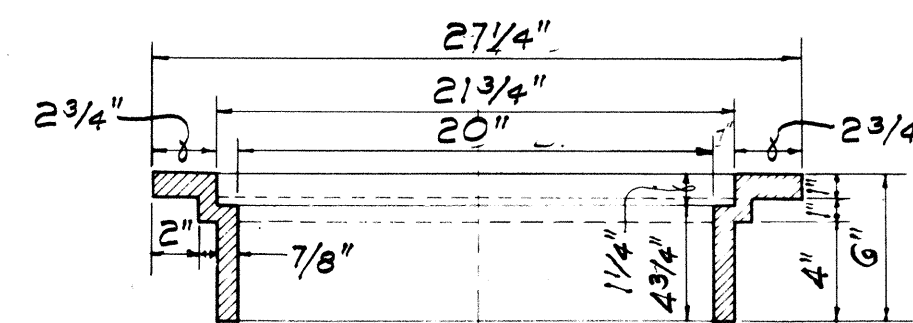
BOTTOM VIEW OF COVER

DETAILS OF TYPE "B"
CAST IRON FRAME AND COVER

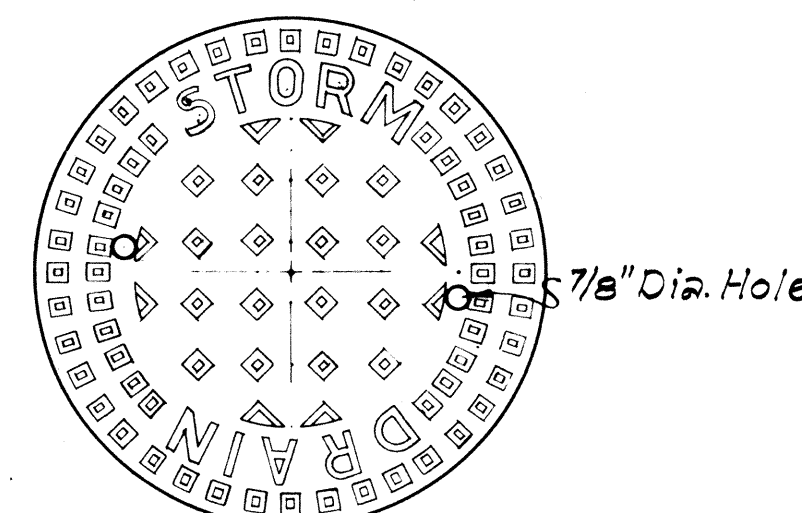
SCALE: 1-1/2" = 1'-0"



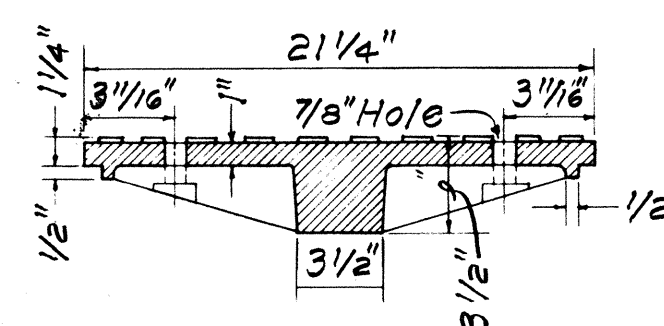
PLAN OF RIM



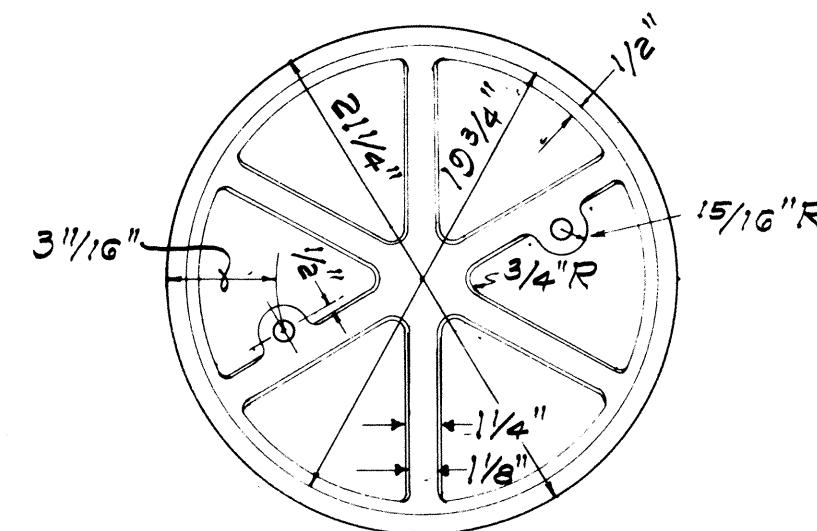
SECTION OF RIM



TOP VIEW OF COVER



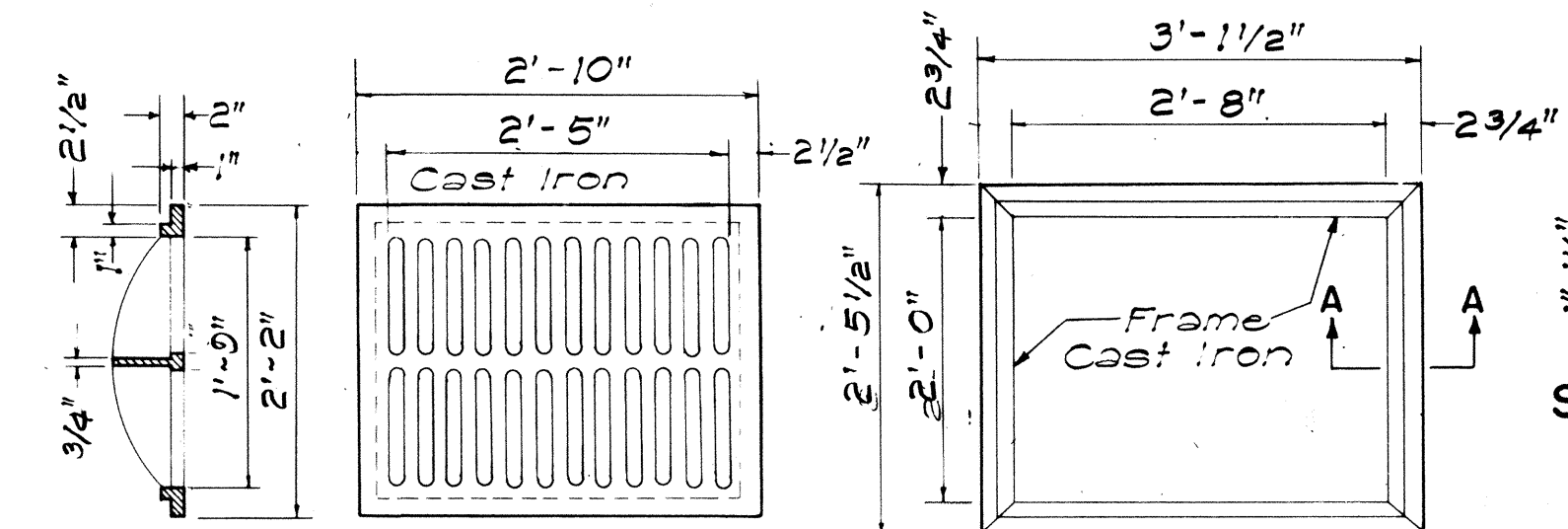
SECTION



BOTTOM VIEW OF COVER

DETAILS OF TYPE "A"
CAST IRON FRAME AND COVER

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



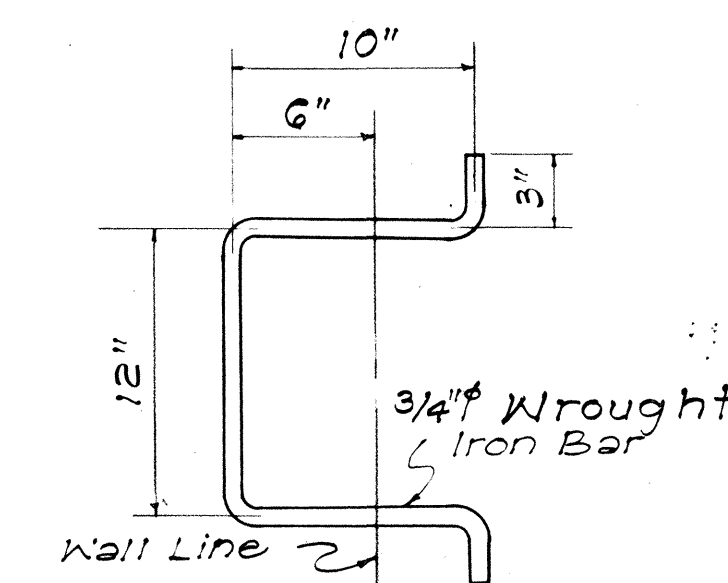
SECTION

TOP VIEW

TOP VIEW

TYPE C C.I. FRAME AND GRATE

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



MANHOLE RUNG

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

APPROVAL RECOMMENDED:		12-17-69
HYDRAULIC DESIGN ENGINEER		DATE
APPROVED:		12-11-69
ASSISTANT CHIEF, ENGINEERING		DATE

NO.	REVISION	APPROVED BY	DATE
1.	Detail of Type "P" Cast Iron Frame and Cover	H.T.	1-6-71

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
STANDARD DETAILS CATCH BASIN AND MANHOLE CASTINGS
Scale: As Noted
Date: July, 1969

SHEET NO. 3 OF 3 SHEETS DH 6

11 41

14

ORIGINAL	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
CHECKED BY	
NO.	