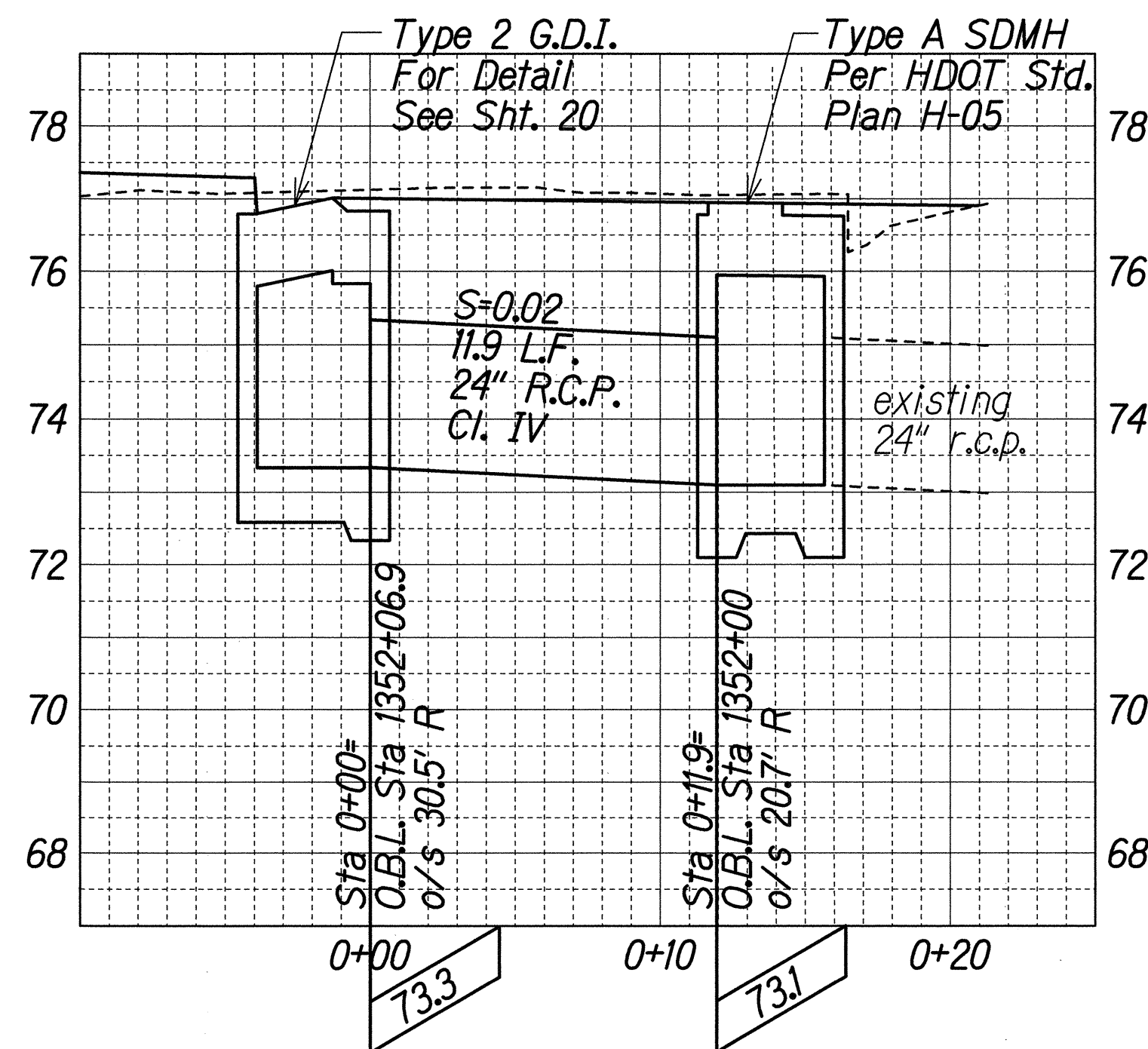


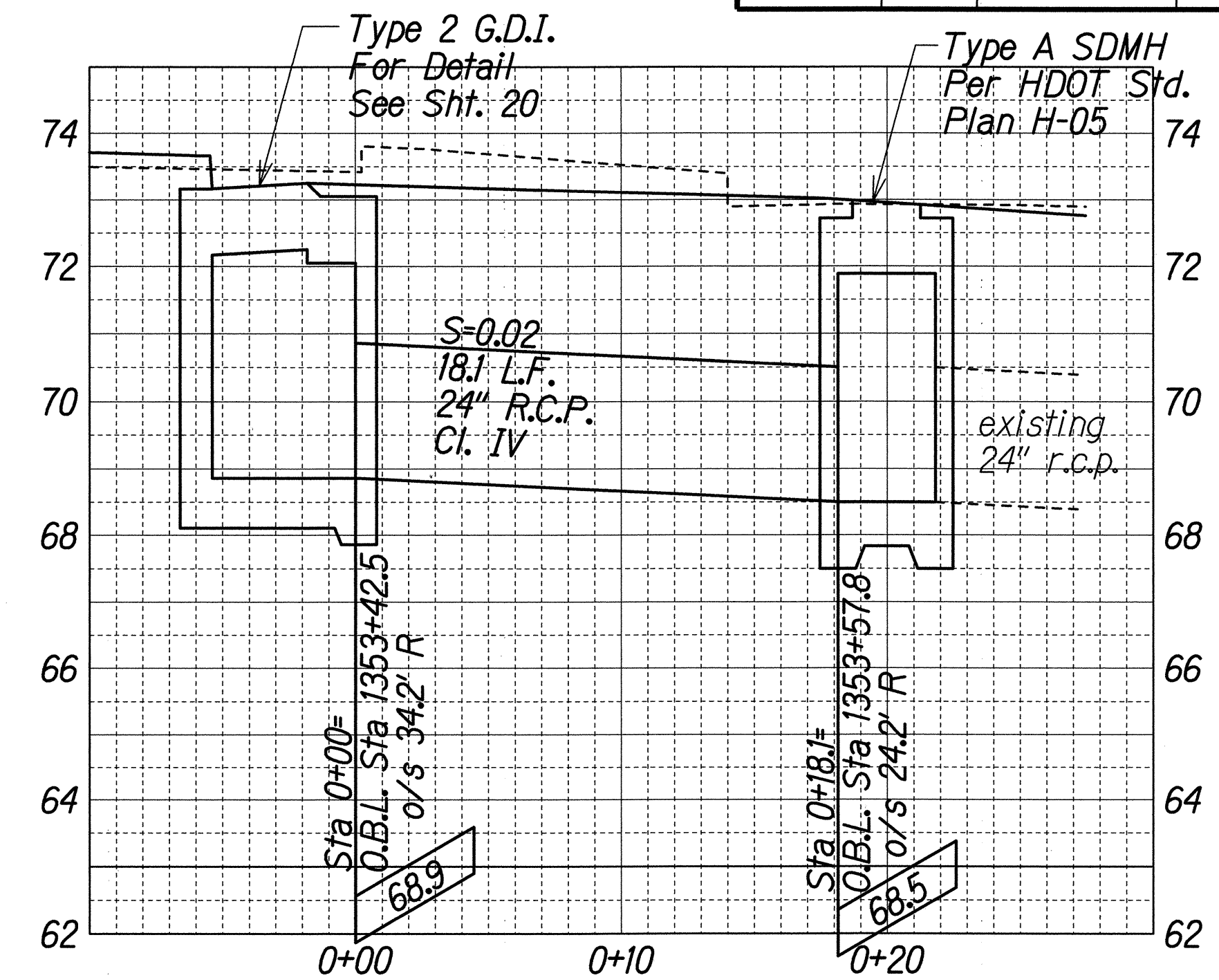
DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	2000E-01-00	2000	18	60

ITEM NO.	206.	503.	603.	603.	604.	604.	604.	604.	604.	609.
UNIT USED	C.Y.	C.Y.	LF.	LF.	EA.	EA.	EA.	EA.	EA.	LF.
O.B. STATION	1000	0100	1048	1049	4300	5100	5110	5120	5130	2730
STRUCTURE EXCAVATION FOR DRAINAGE STRUCTURES										
CONCRETE FOR CULVERT HEADWALL (CLASS A)										
24-INCH REINFORCED CONCRETE PIPE CLASS IV										
36-INCH REINFORCED CONCRETE PIPE CLASS IV										
TYPE 6614B GRATED DROP INLET 4 FT. TO 6 FT.										
TYPE "A" S.D.M.H., 4 FT. TO 6 FT.										
TYPE 1 GRATED DROP INLET, 4 FT. TO 6 FT.										
TYPE 1 GRATED DROP INLET, 8 FT. TO 10 FT.										
TYPE 2 GRATED DROP INLET, 4 FT. TO 6 FT.										
CURB AND GUTTER, TYPE A										
1346+07 Rt.	4				1					
1346+30 Rt.										77
1347+07± Rt.	15						1			203
1348+45± Lt.	8	4		5						
1349+10± Rt.	12						1			139
1350+49± Rt.	25							1		26
1351+98± Lt.	8		12			1				
1352+09 Lt.	11								1	
1353+40 Lt.	24		20						1	
1353+60± Lt.	5					1				
1354+13± Lt.	5					1				
TOTALS	117	4	32	5	1	3	2	1	2	445



24" R.C.P. @ O.B.L. STA 1352+00±

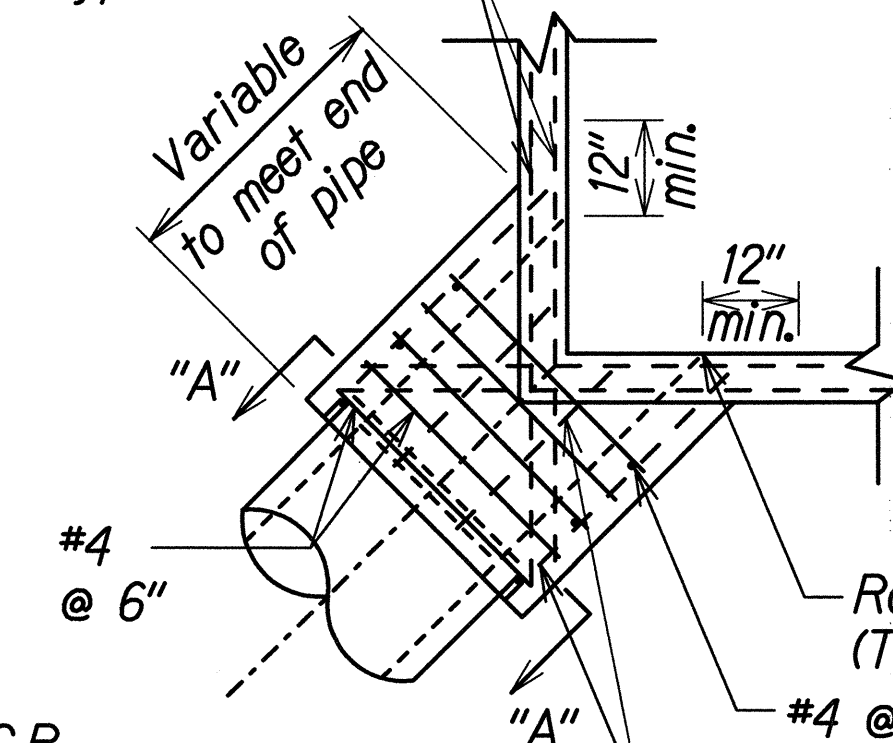


24" R.C.P. @ O.B.L. STA 153+50±

DRAINAGE PROFILES

Scale: Horiz. 1"=5'
Vert. 1"=2'

#5 bars-2 above and 2 below opening (Typ.)



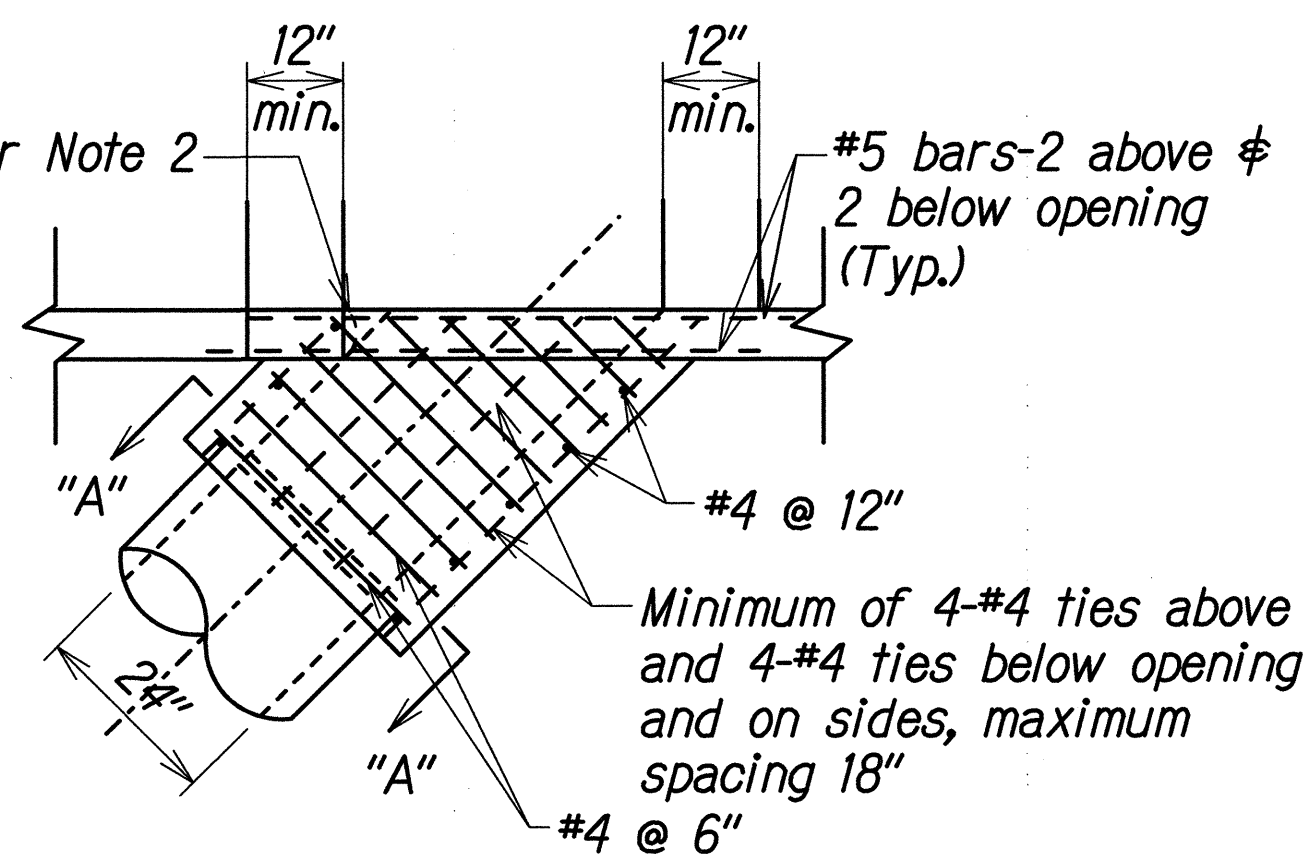
PLAN OF CORNER CONNECTION

Round per Note 2 (Typ.)

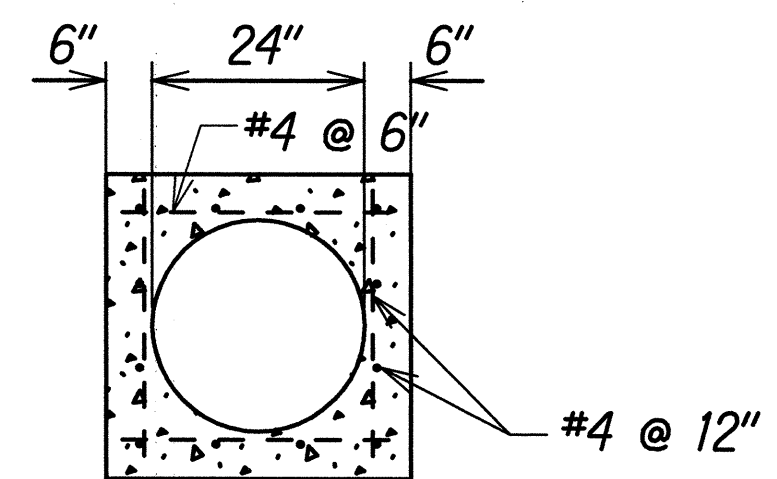
Minimum of 4-#4 ties above and 4-#4 ties below opening and on sides, maximum spacing 18"

MONOLITHIC CATCH BASIN CONNECTION

Not to Scale



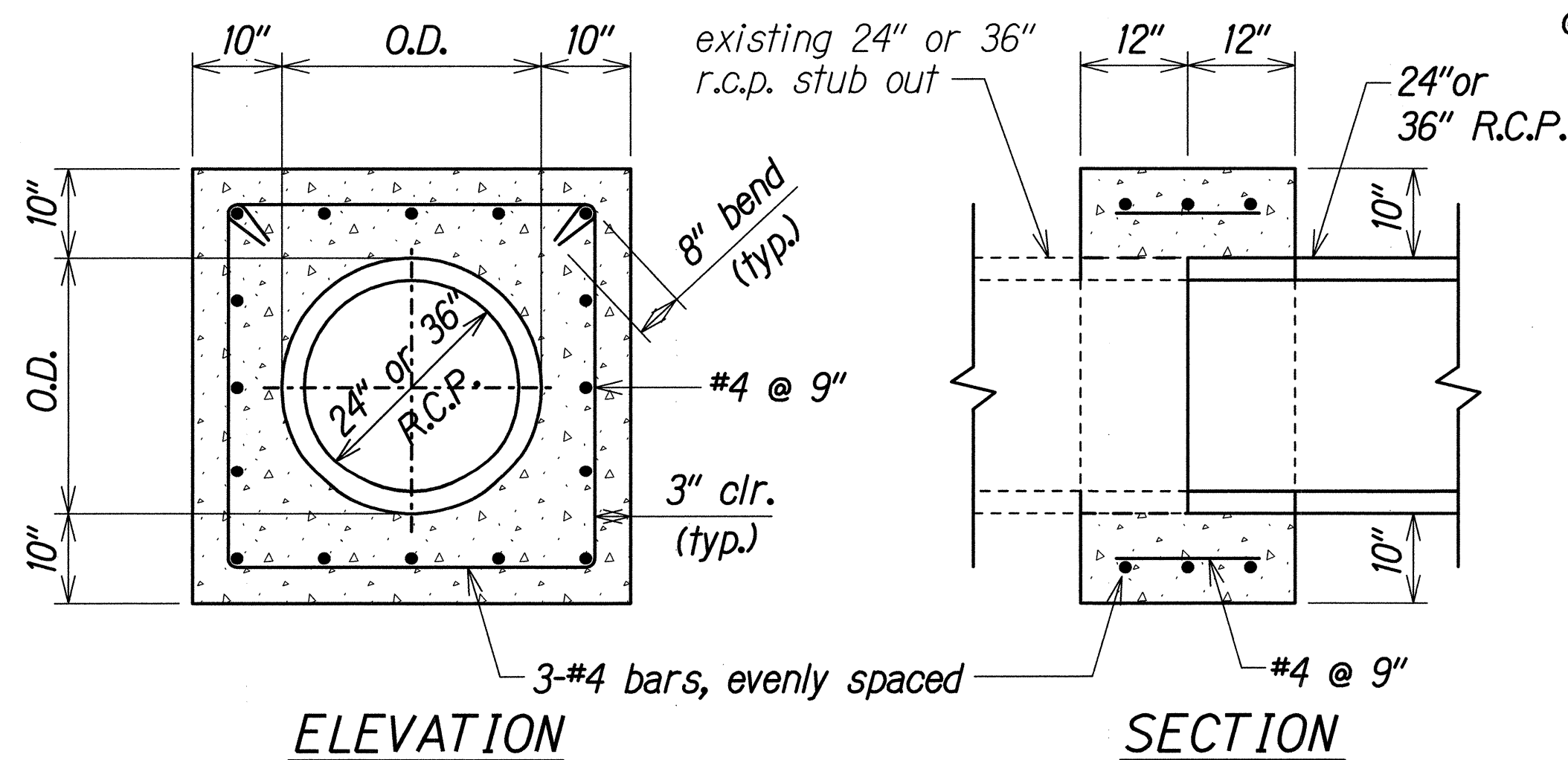
PLAN OF SIDE CONNECTION



SECTION A-A

Notes:

1. Round edge of outlet 3" radius.
2. Reinforcement shall be 1 1/2 inches clear from the face of concrete.
3. In connecting to an existing structure, break out portions of the existing structure 6 inches outside it's intersection with the new connection. Bend ends of #4 bars over connection opening as required.

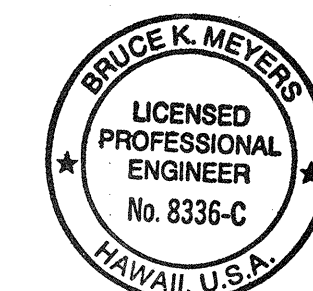


ELEVATION

SECTION

TYPICAL DETAILS OF REINFORCED CONCRETE COLLAR

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



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.
DATE: 5/1/2000

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

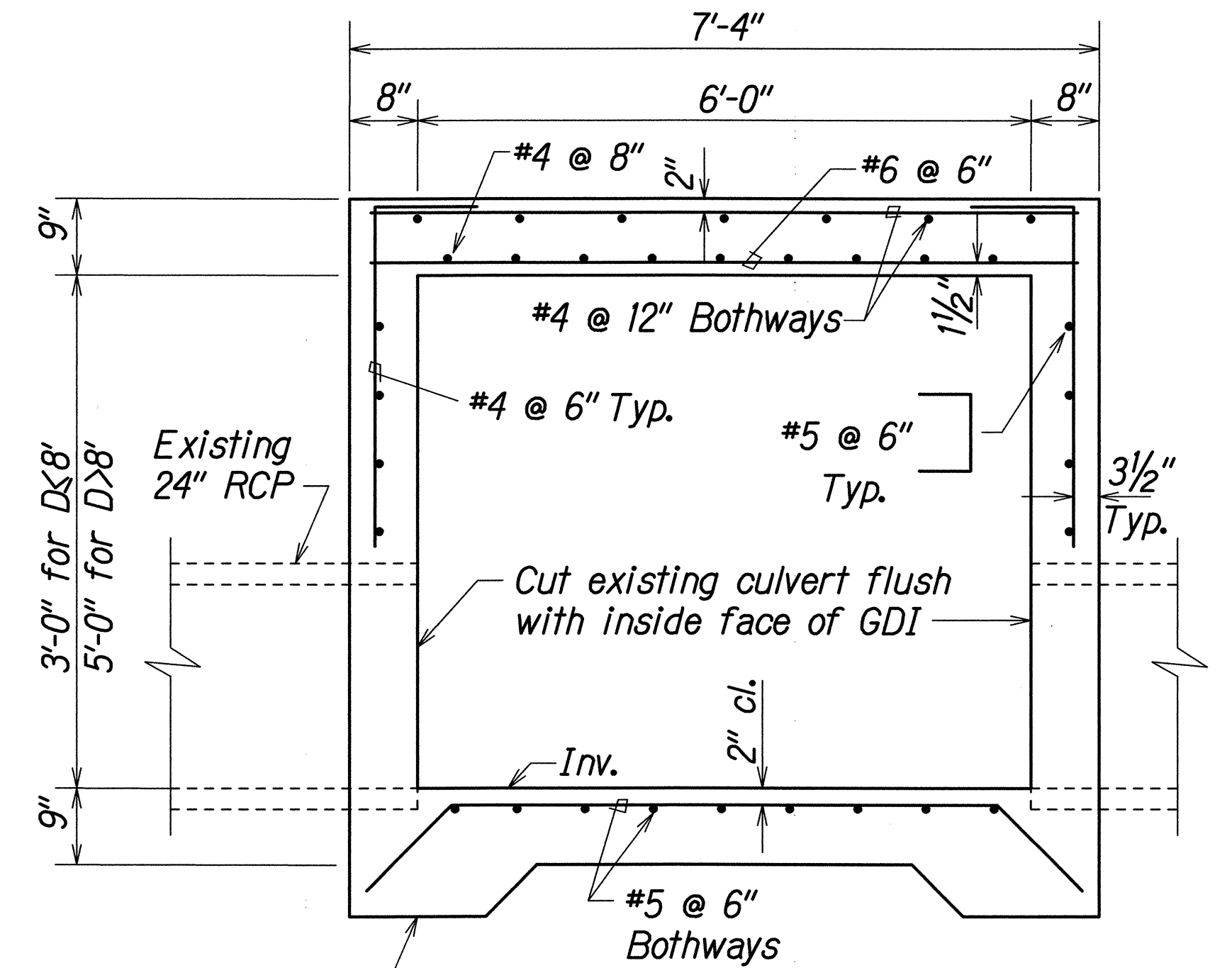
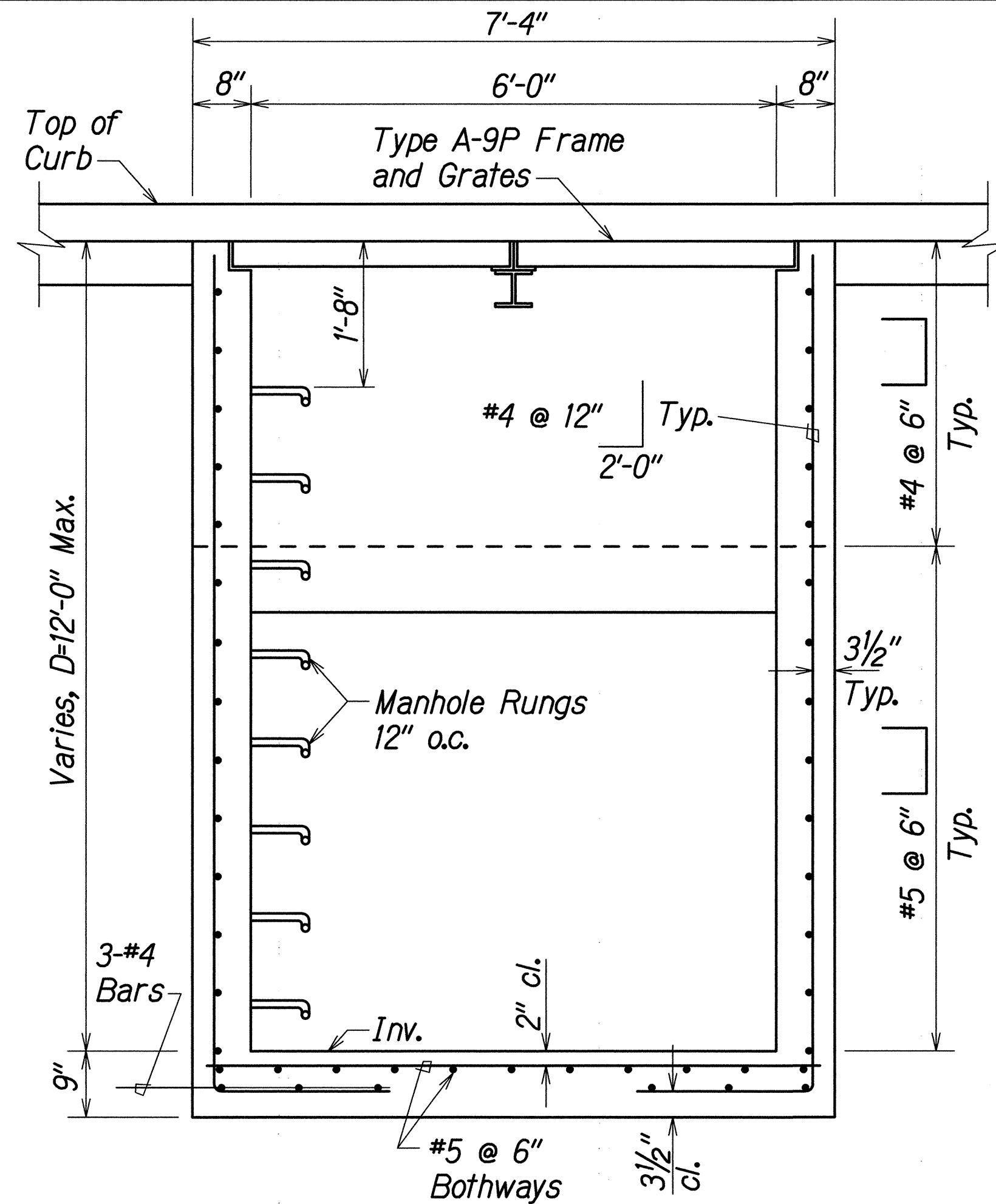
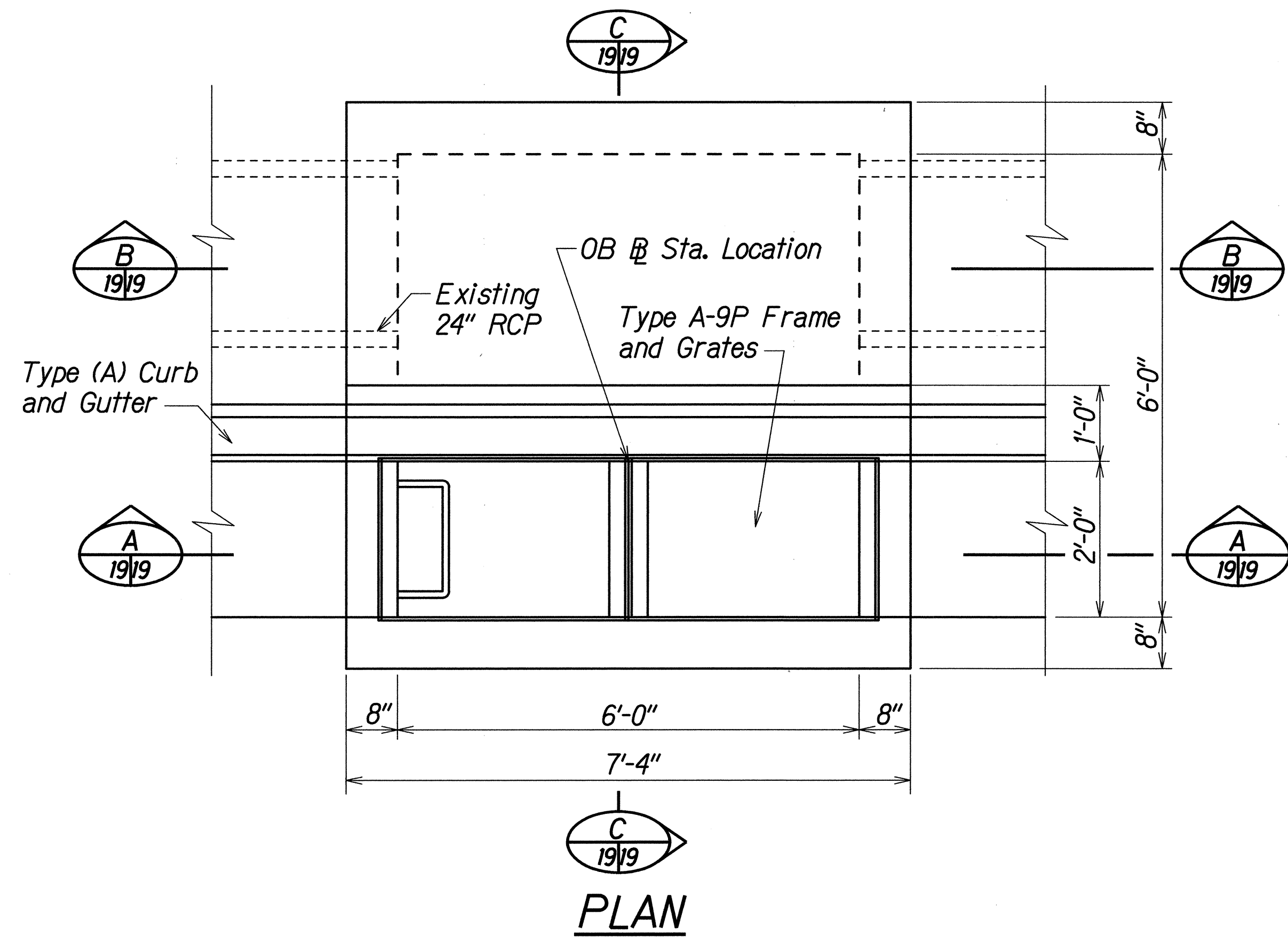
DRAINAGE SUMMARY & DETAILS

PUAINAKO STREET IMPROVEMENTS, PHASE 1
Kilauea Ave. to Kamehameha Ave.
Project No. 2000E-01-00

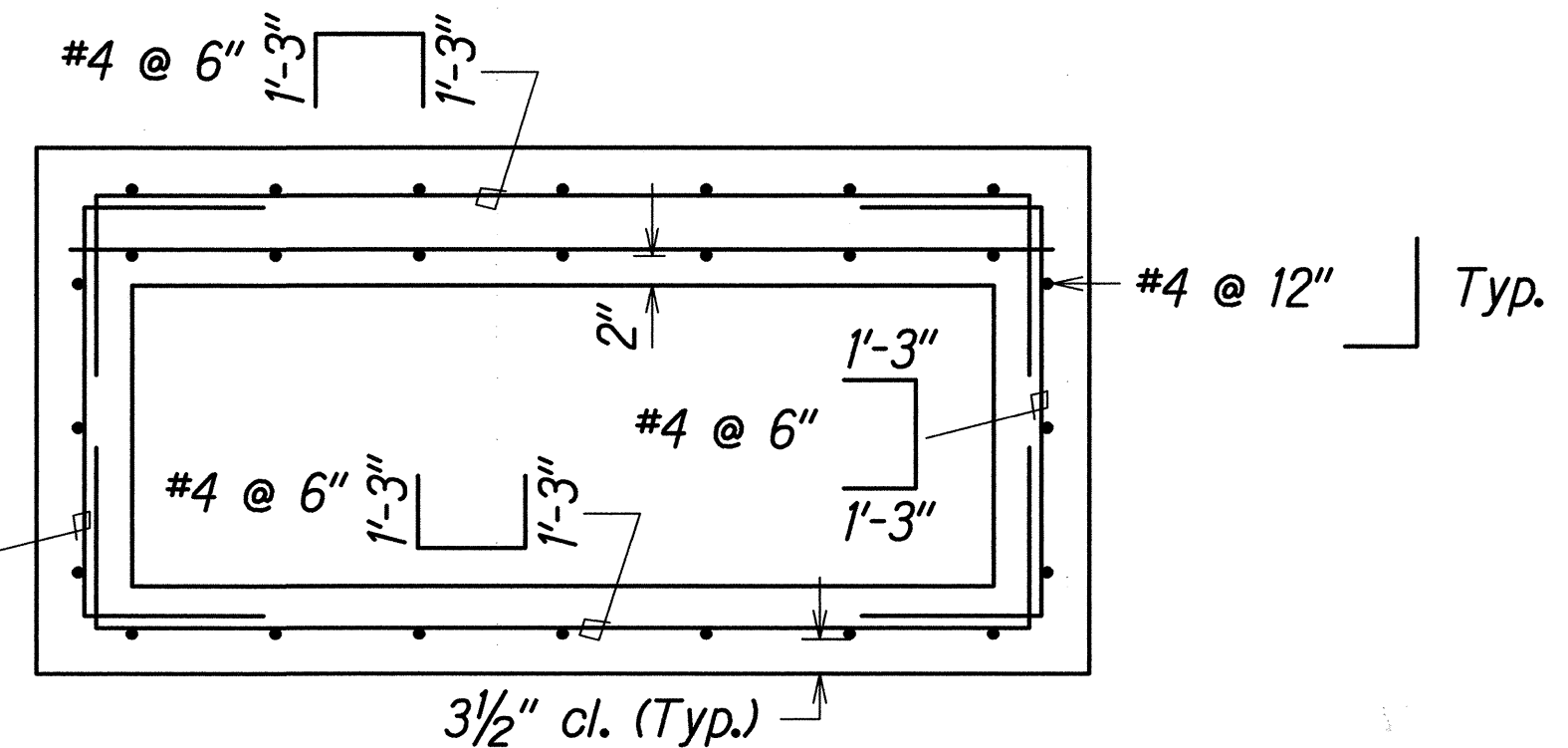
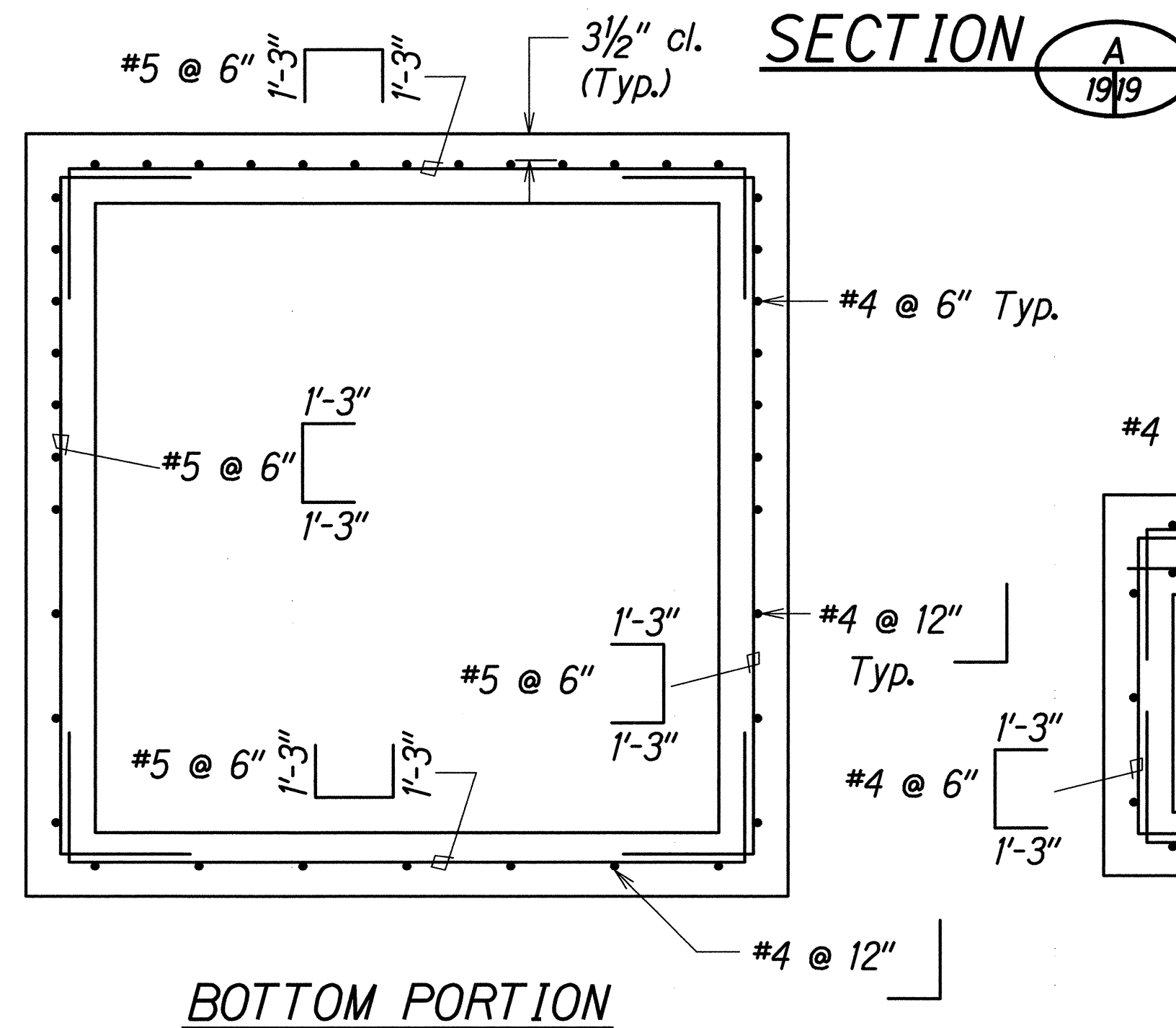
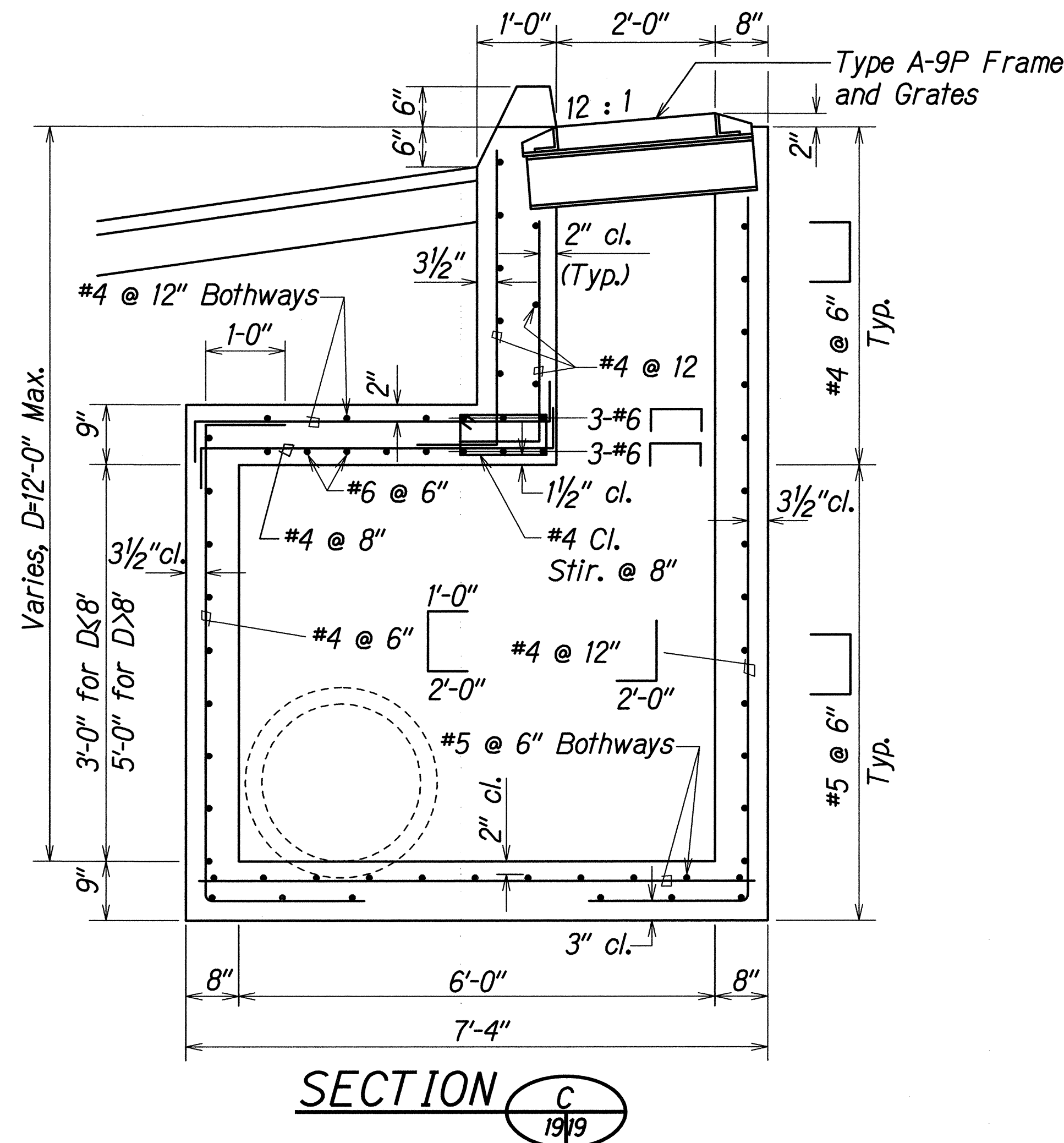
Scale: As Noted Date: May, 2000

SHEET No. 1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	2000E-01-00	2000	19	60

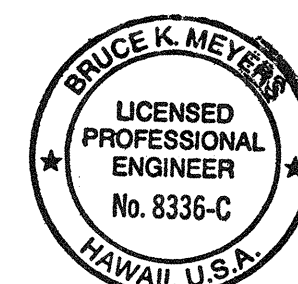


See Std. Plan H-04 for culvert seat detail and added reinforcing around culvert opening



PLAN VIEW OF WALL REINFORCING

DETAILS OF TYPE 1 GRATED DROP INLET



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.
DATE: *[Signature]*

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

PUAINAKO STREET IMPROVEMENTS, PHASE 1
Kilauea Ave. to Kanoelehua Ave.

Project No. 2000E-01-00

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

Date: May, 2000

SHEET No. 2 OF 3 SHEETS

