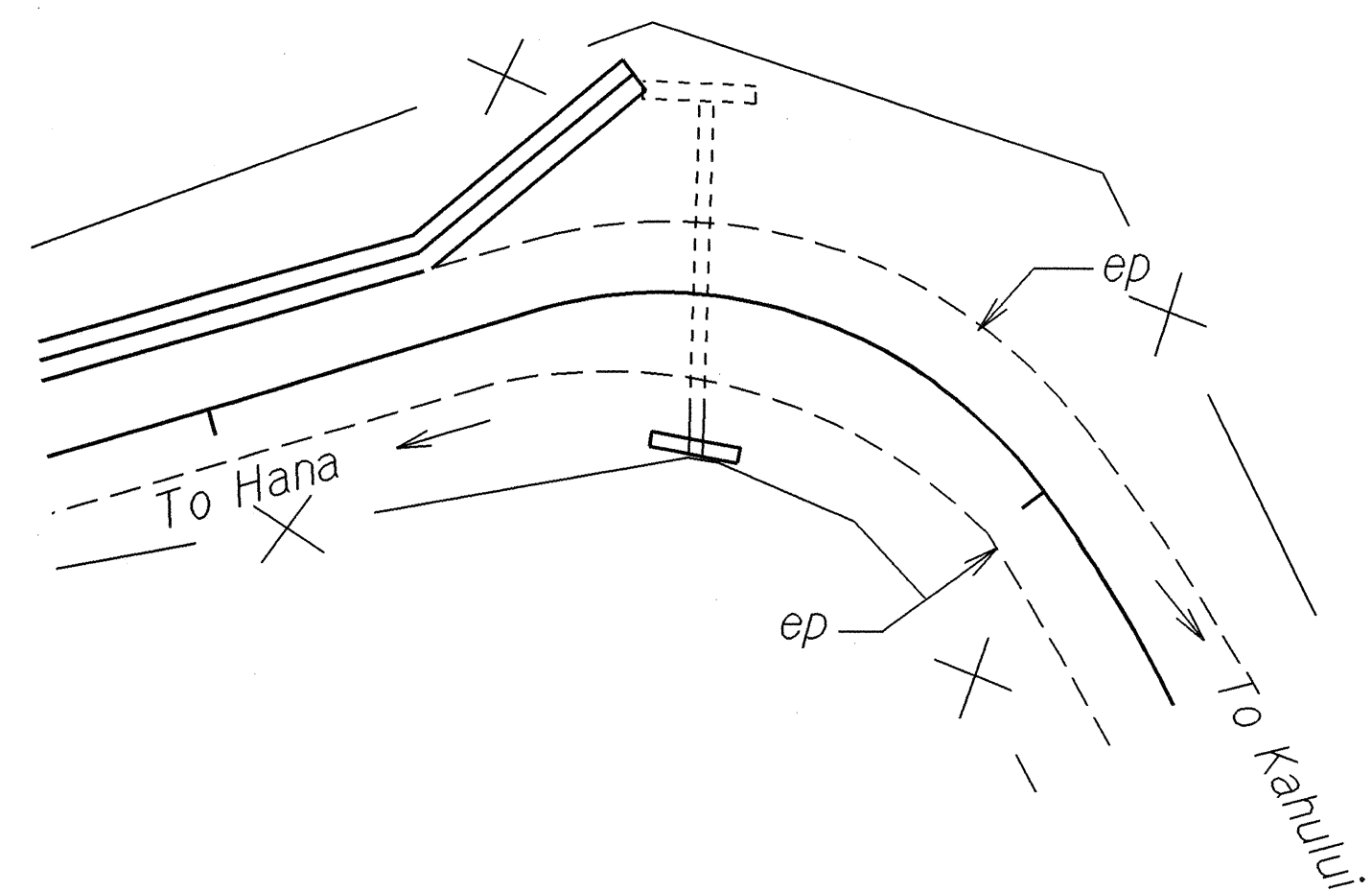
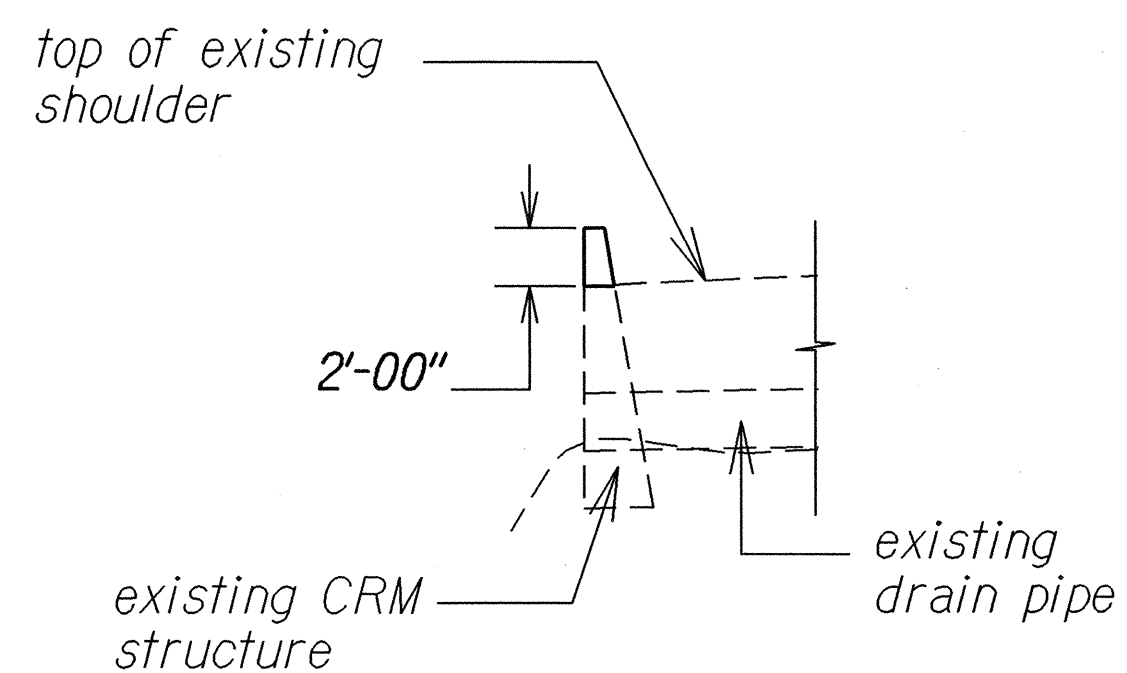


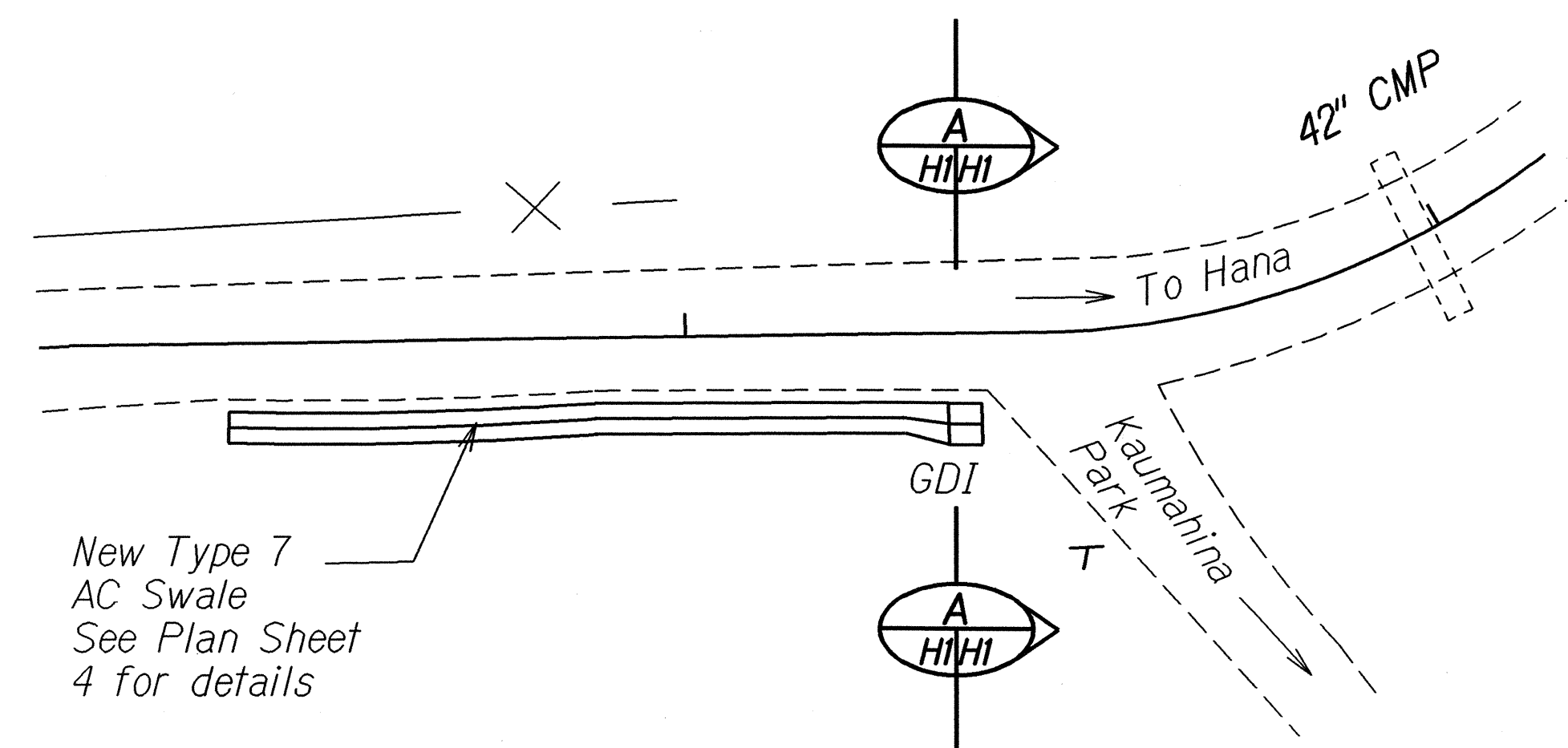
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360A-02-05M	2005	11	27



PLAN
Scale: Not to Scale

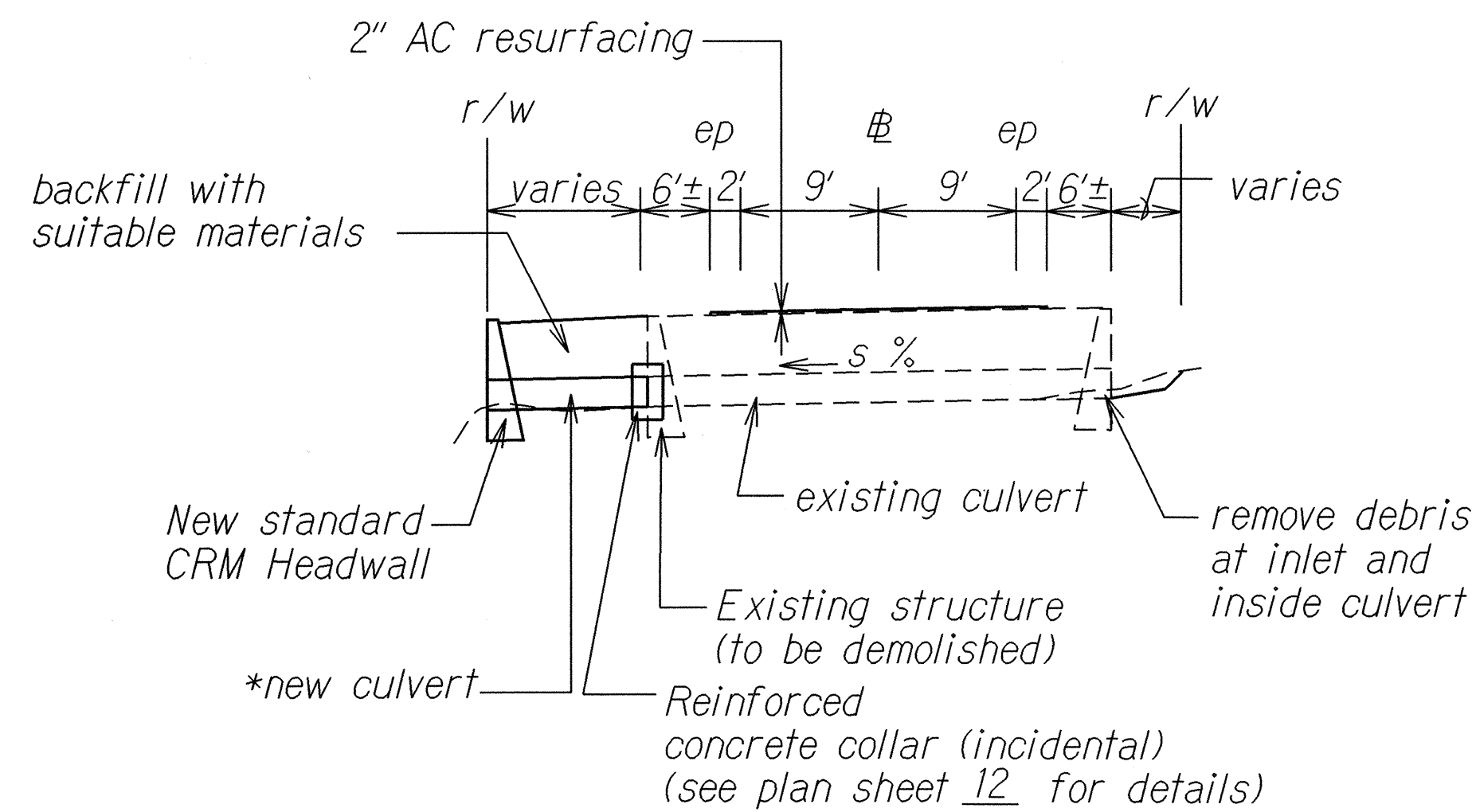


ELEVATION
Scale: nts



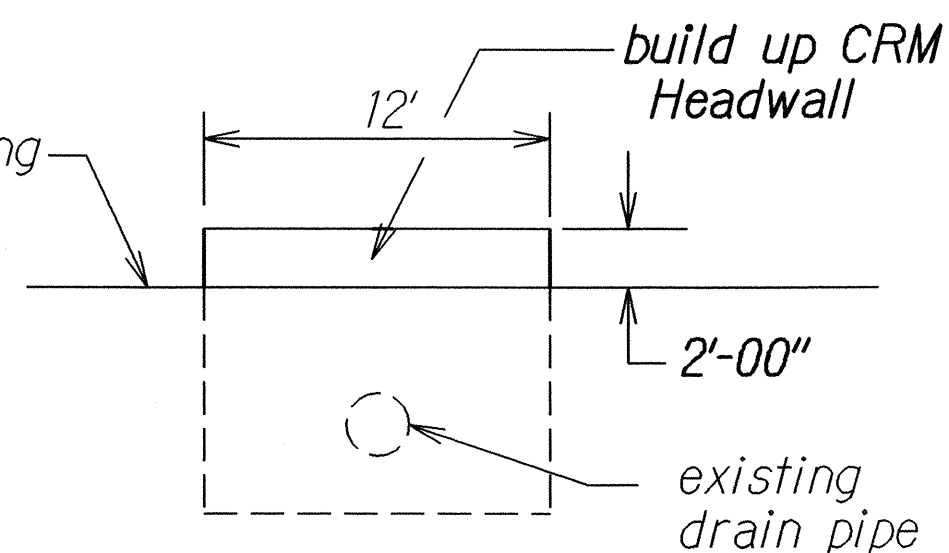
GDI RECONSTRUCTION DETAIL
AT STA. 493+40± RT.
Scale: 1"=20'

* Backfill material and Reinforced Concrete Collar shall be incidental to Reinforced Concrete Pipe.



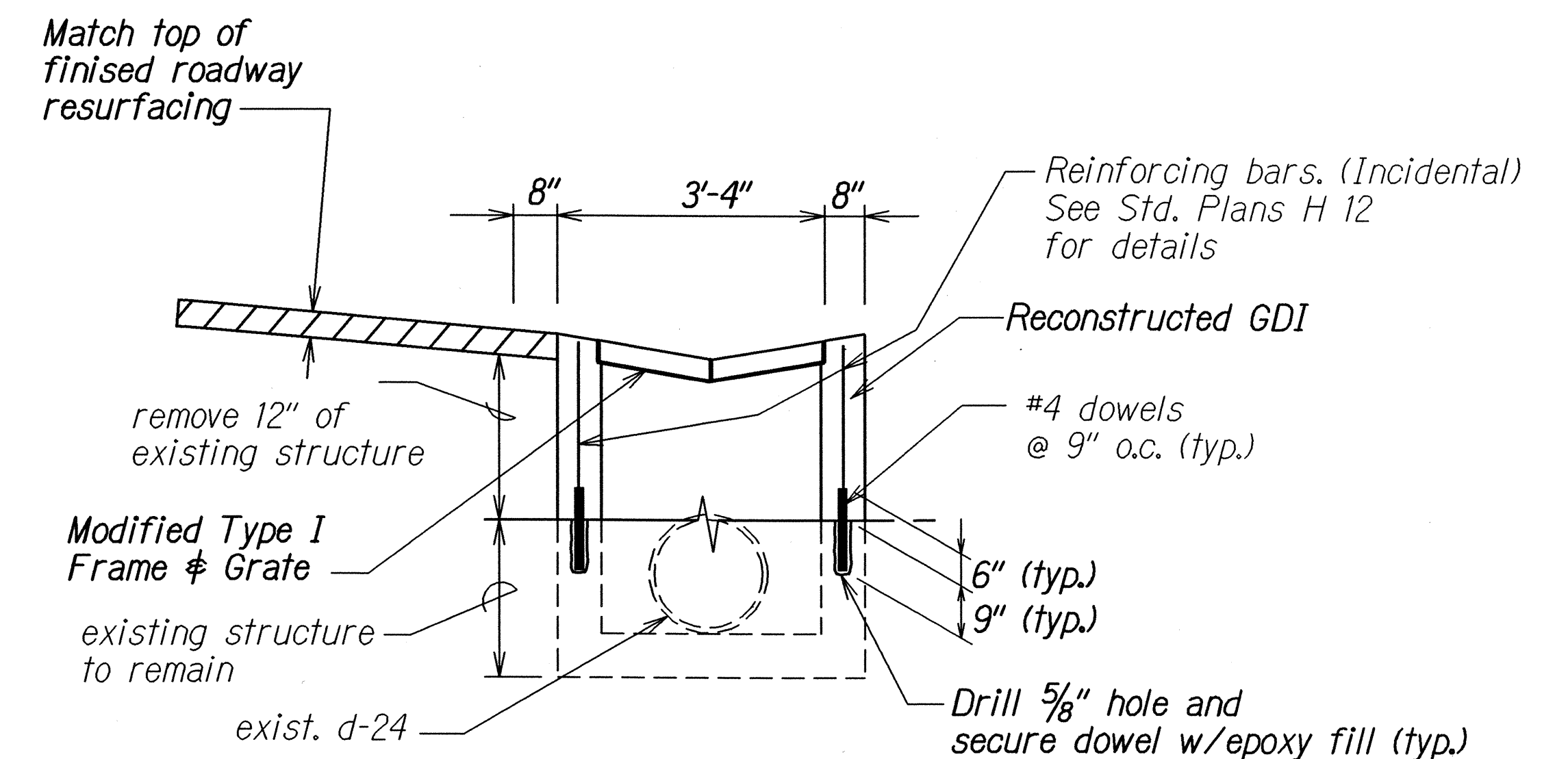
PROFILE
Scale: Not to Scale

CULVERT EXTENSION
STA. 559+80 - 24 inch RCP
Scale: Not to Scale



VIEW
Scale: nts

CRM WALL BUILD UP
Scale: nts



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

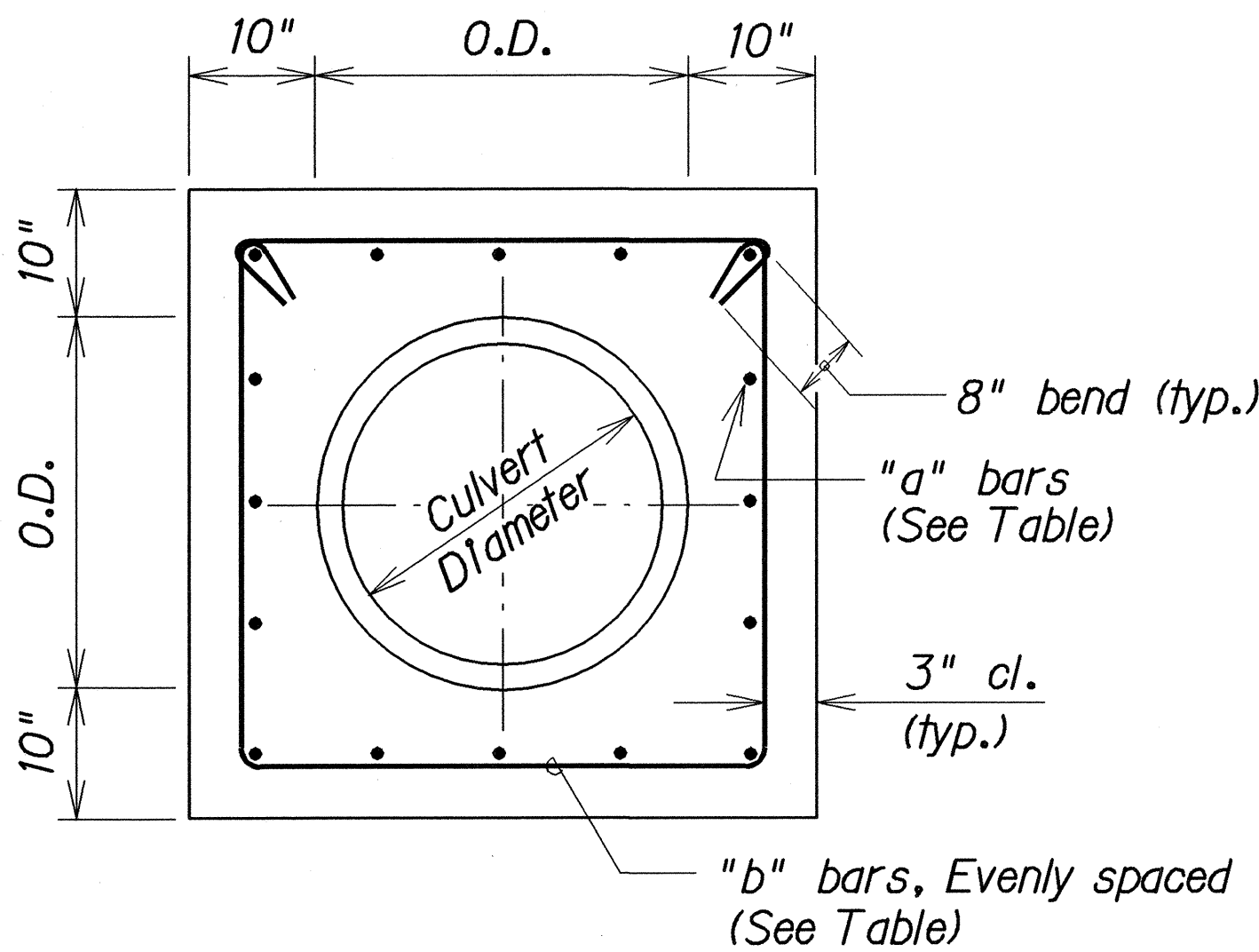
DRAINAGE PLANS & DETAILS

HANA HIGHWAY RESURFACING
Vicinity of Waikamoi Bridge to Honomanu Bridge
Project No. 360A-02-05M
Scale: As shown Date: February, 2005
SHEET No. **11** OF 2 SHEETS

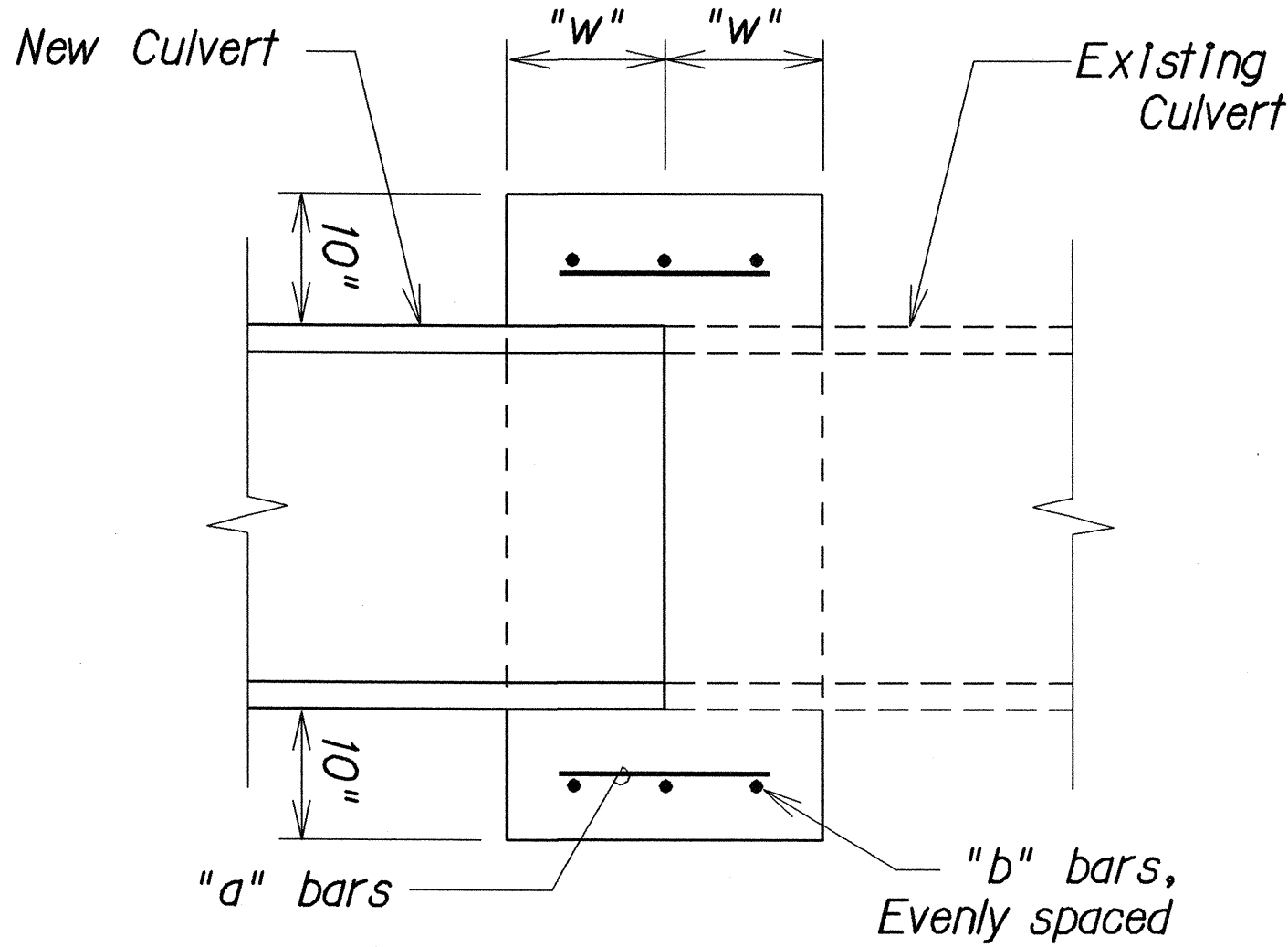
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	Feb. 2005
me3/eddy	DESIGNED BY	
2/2/2005	CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360A-02-05M	2005	12	27

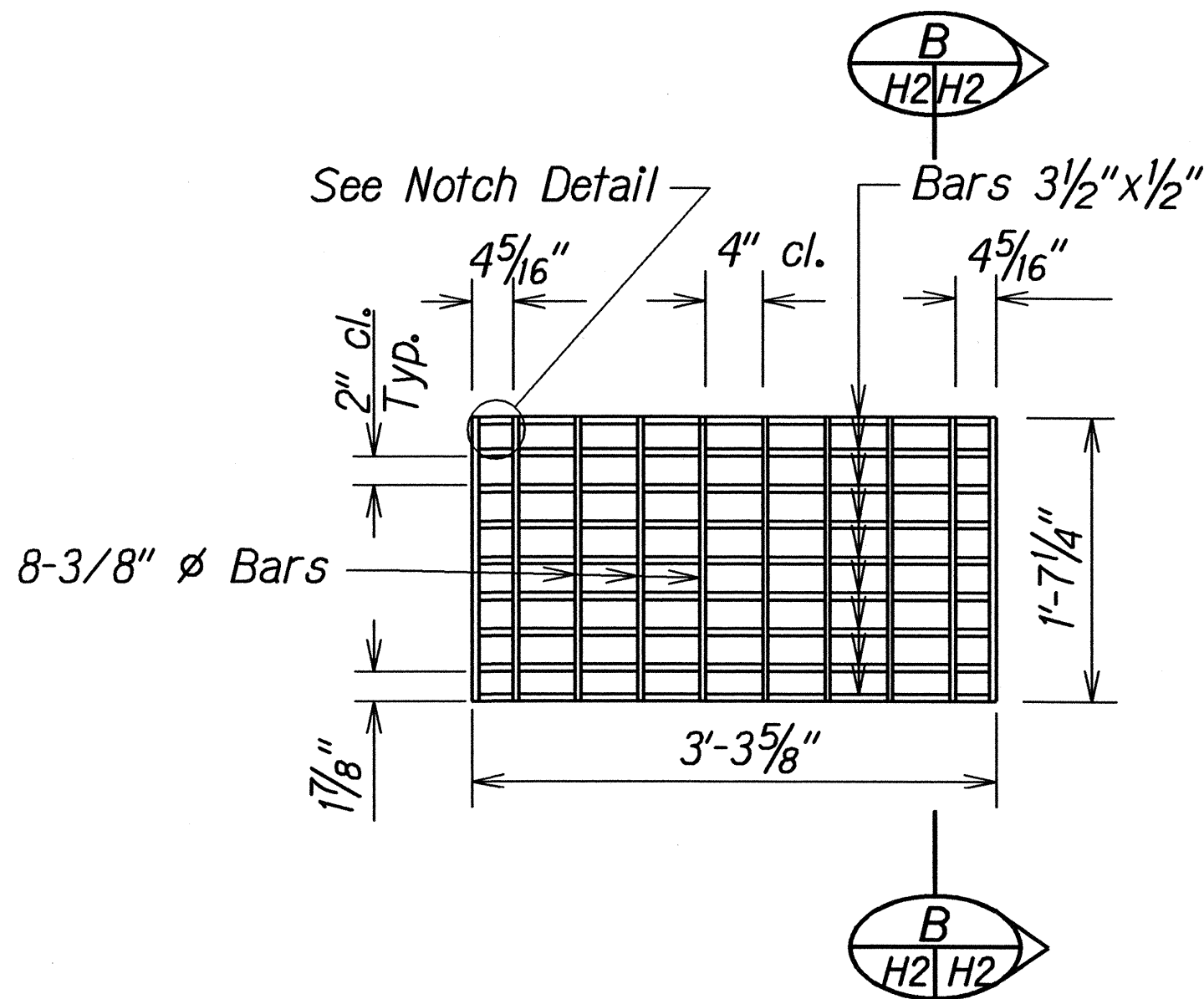
NOTE: Concrete for concrete collar shall be Class B.
Reinforced concrete collar shall not be paid for separately but shall be considered incidental to 24-Inch Reinforced Concrete Pipe , Class IV.



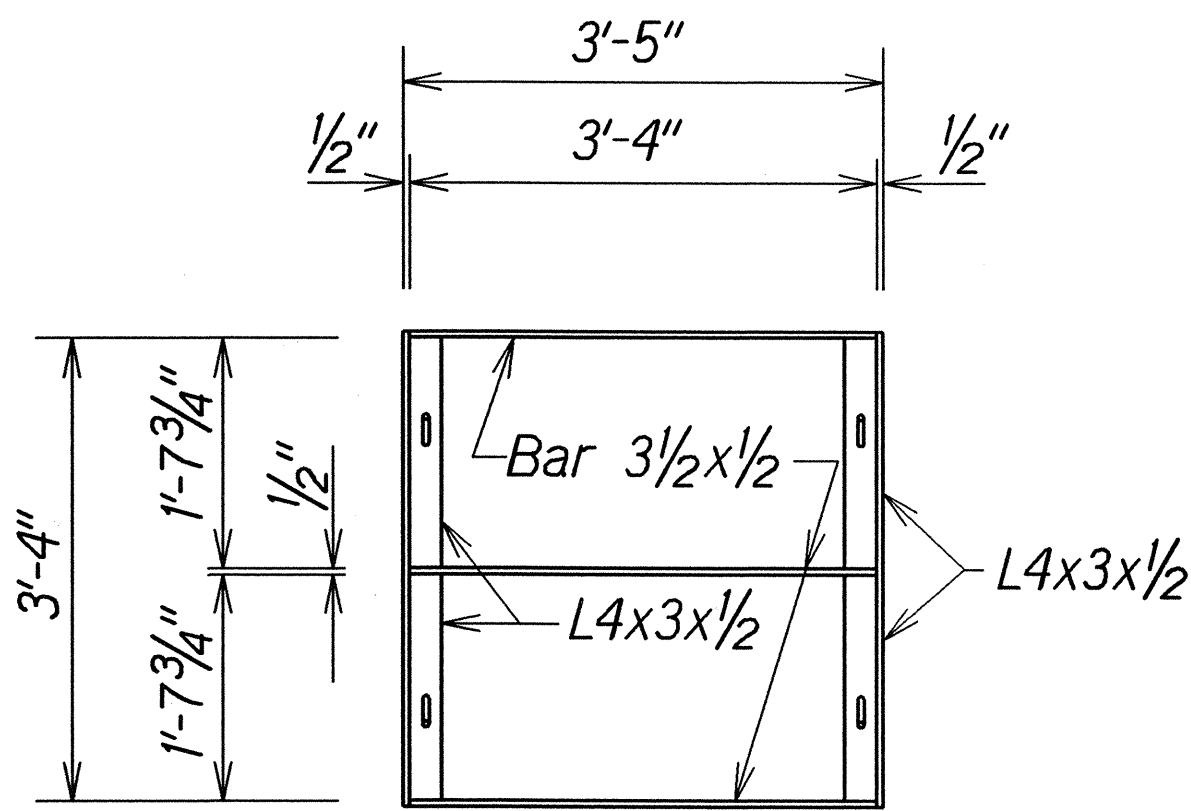
ELEVATION



SECTION



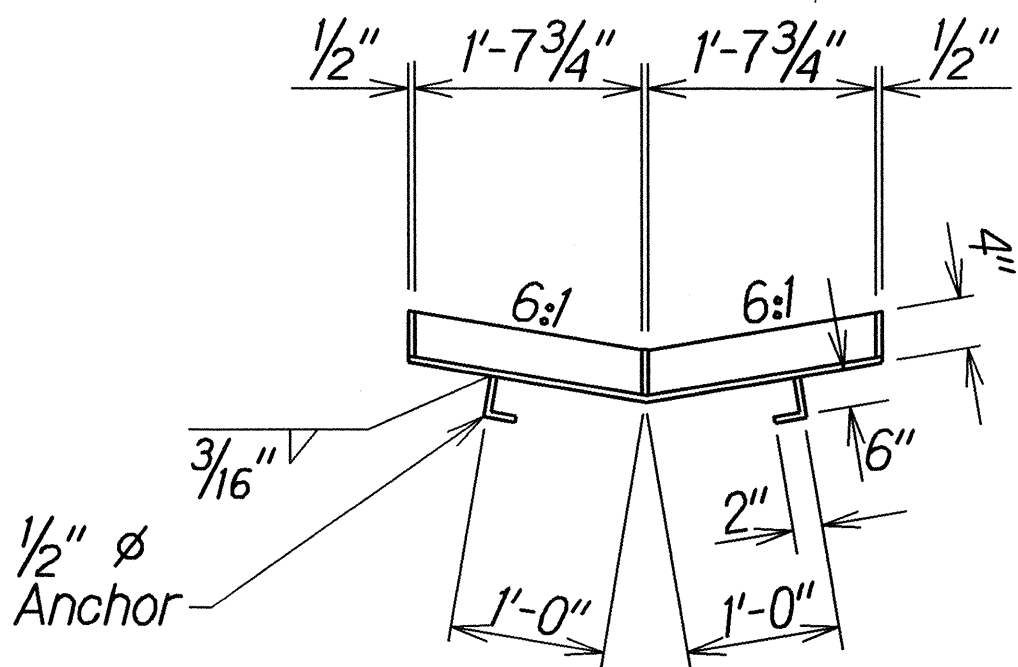
PLAN - GRATE
Not to Scale



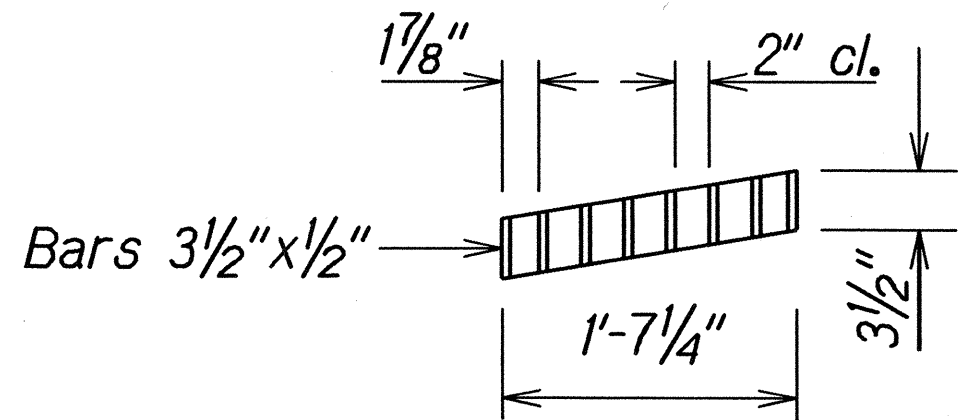
PLAN - FRAME
Not to Scale

Culvert Diameter	"a" bars	"b" bars	"w"
18" to 30"	#4 @ 9"	3- #4	12"
36" to 48"	#5 @ 9"	4- #4	15"

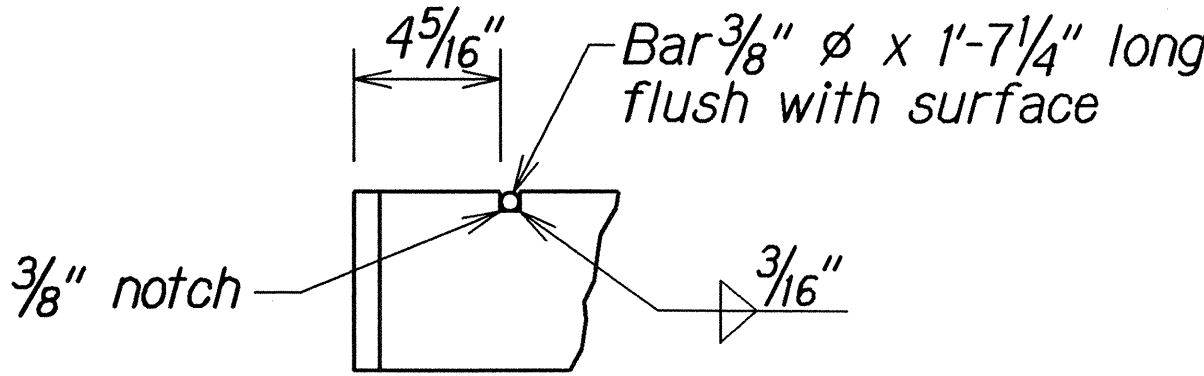
Note: Reinforcing Steel for Concrete Collar shall conform to the requirements of ASTM 615-Grade 60.



SECTION - FRAME
Not to Scale



SECTION
Not to Scale



NOTCH DETAIL
Not to Scale

DETAILS OF MODIFIED TYPE "I" FRAME & GRATES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PLANS & DETAILS
HANA HIGHWAY RESURFACING
Vicinity of Waikamoi Bridge to Honomanu Bridge
Project No. 360A-02-05M
Scale: As shown Date: February, 2005
SHEET No. H2 OF 2 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	1-20-2005
DESIGNED BY	CHECKED BY	
QUANTITIES BY		
CHECKED BY		