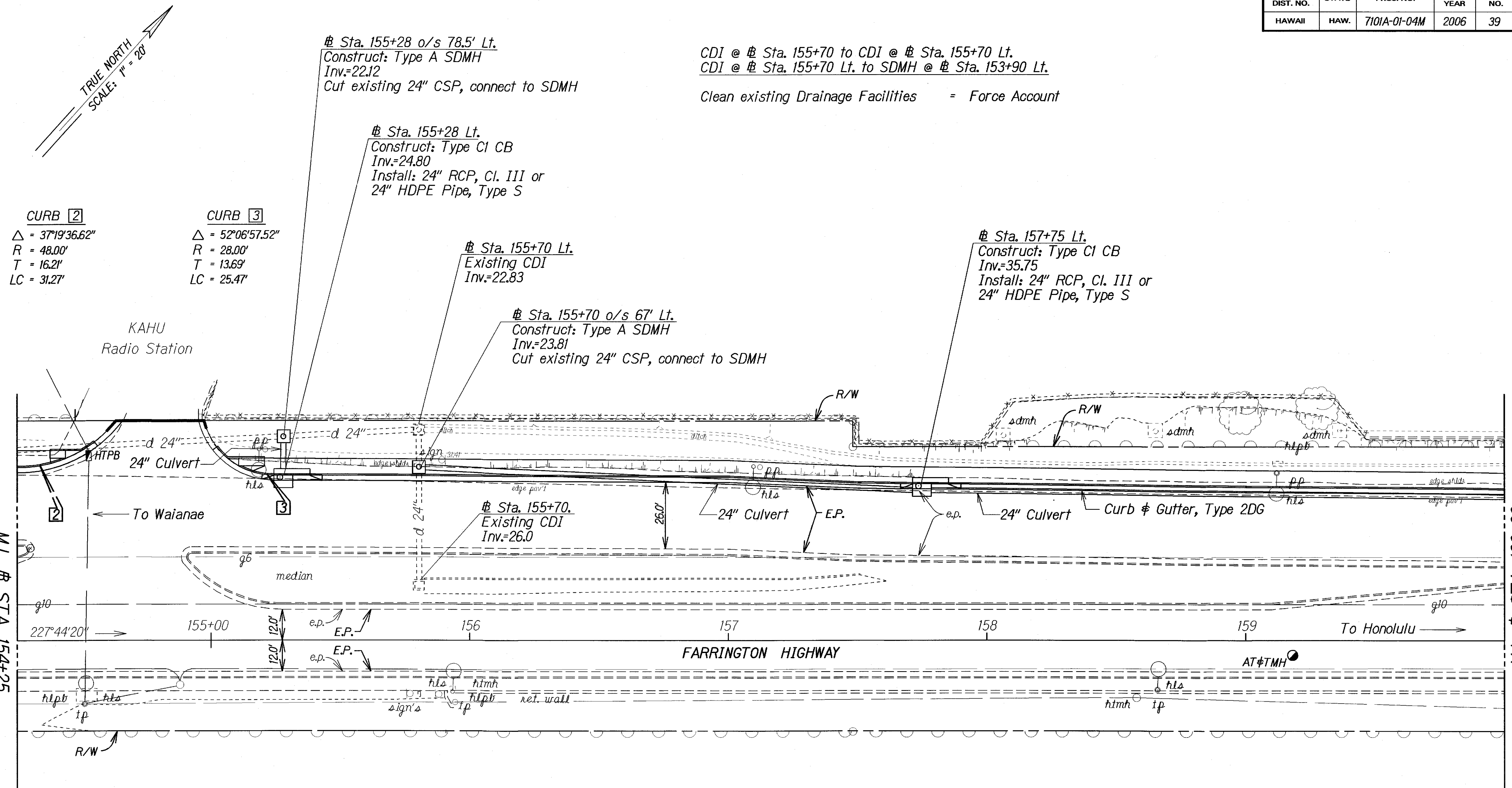


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	39	74



Sta. 155+28 o/s 78.5' Lt.
Construct: Type A SDMH
Inv.=22.12
Cut existing 24" CSP, connect to SDMH

CDI @ # Sta. 155+70 to CDI @ # Sta. 155+70 Lt.
CDI @ # Sta. 155+70 Lt. to SDMH @ # Sta. 153+90 Lt.
Clean existing Drainage Facilities = Force Account

Sta. 155+28 Lt.
Construct: Type C1 CB
Inv.=24.80
Install: 24" RCP, Cl. III or
24" HDPE Pipe, Type S

Sta. 155+70 Lt.
Existing CDI
Inv.=22.83

Sta. 155+70 o/s 67' Lt.
Construct: Type A SDMH
Inv.=23.81
Cut existing 24" CSP, connect to SDMH

Sta. 157+75 Lt.
Construct: Type C1 CB
Inv.=35.75
Install: 24" RCP, Cl. III or
24" HDPE Pipe, Type S

Sta. 155+70.
Existing CDI
Inv.=26.0

ORIGINAL PLAN	DATE	09/29/04
DRAWN BY	LC	
CHECKED BY	EN	
NOTED BY	EN	
DATE	09/29/04	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

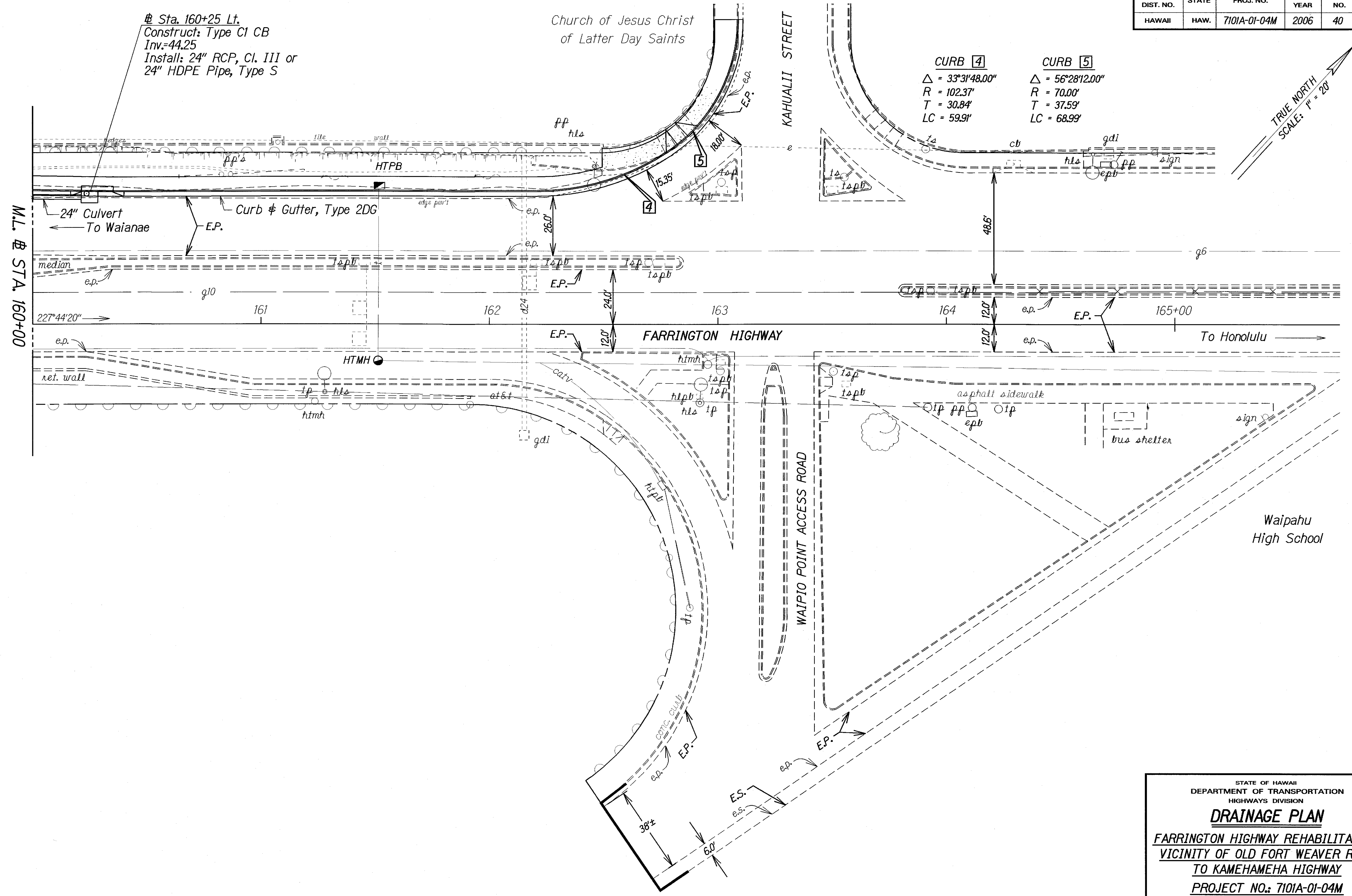
DRAINAGE PLAN

FARRINGTON HIGHWAY REHABILITATION,
VICINITY OF OLD FORT WEAVER ROAD
TO KAMEHAMEHA HIGHWAY

PROJECT NO.: 7101A-01-04M

Scale: 1" = 20' Date: Sep, 2004

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	40	74



ORIGINAL PLAN	DATE	09/29/04
SURVEY PLOTTED BY	DATE	09/29/04
DRAWN BY	DATE	09/29/04
NOTED BY	DATE	09/29/04
CHECKED BY	DATE	09/29/04

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PLAN

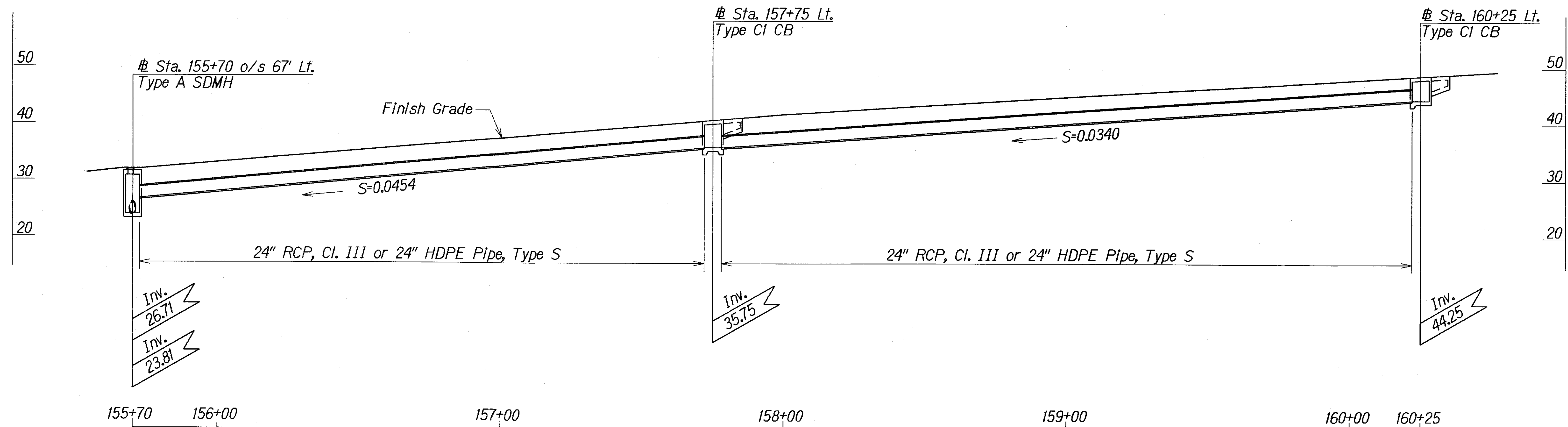
FARRINGTON HIGHWAY REHABILITATION,
VICINITY OF OLD FORT WEAVER ROAD
TO KAMEHAMEHA HIGHWAY

PROJECT NO.: 7101A-01-04M

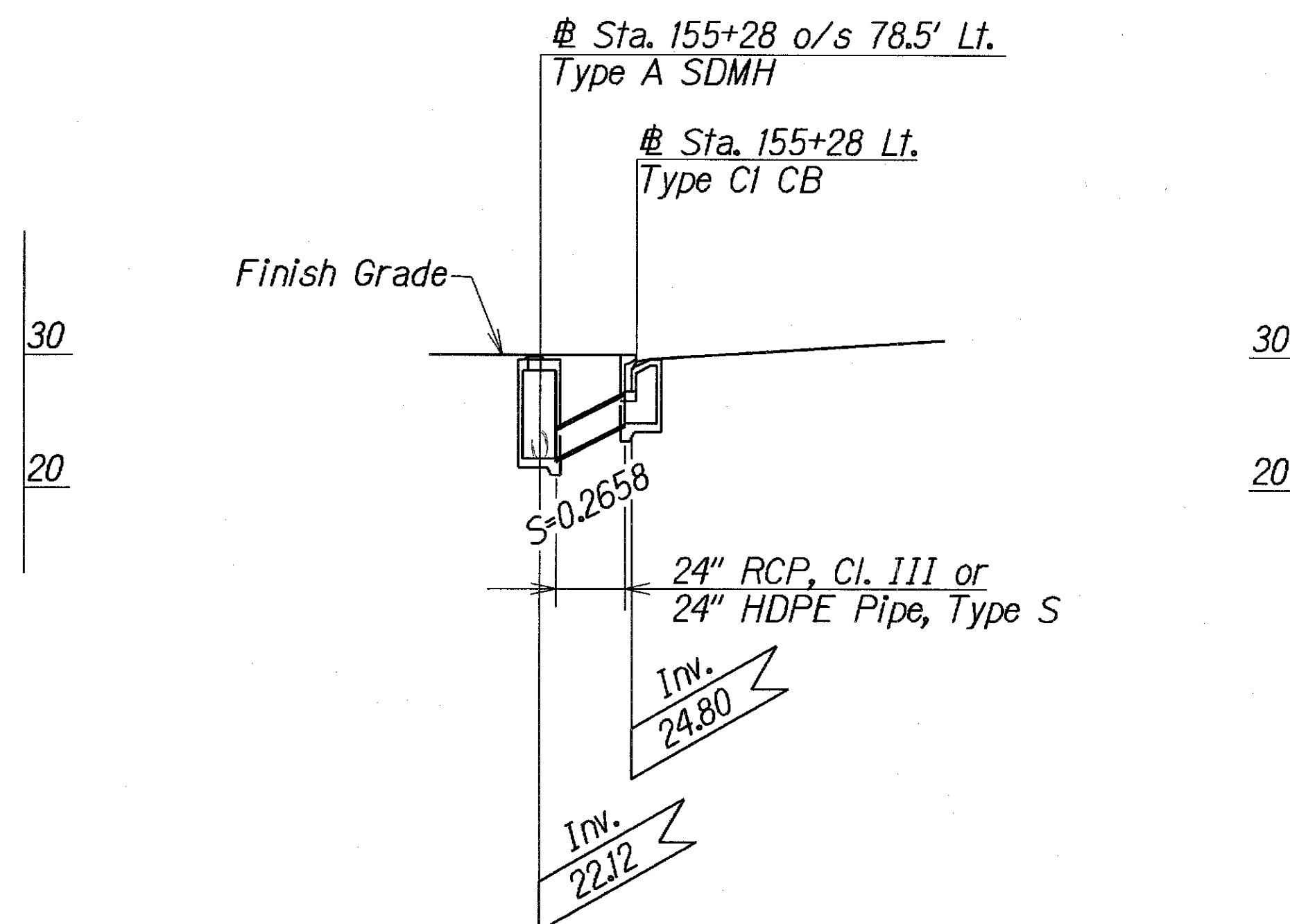
Scale: 1" = 20' Date: Sep, 2004

SHEET No. H3 OF 7 SHEETS

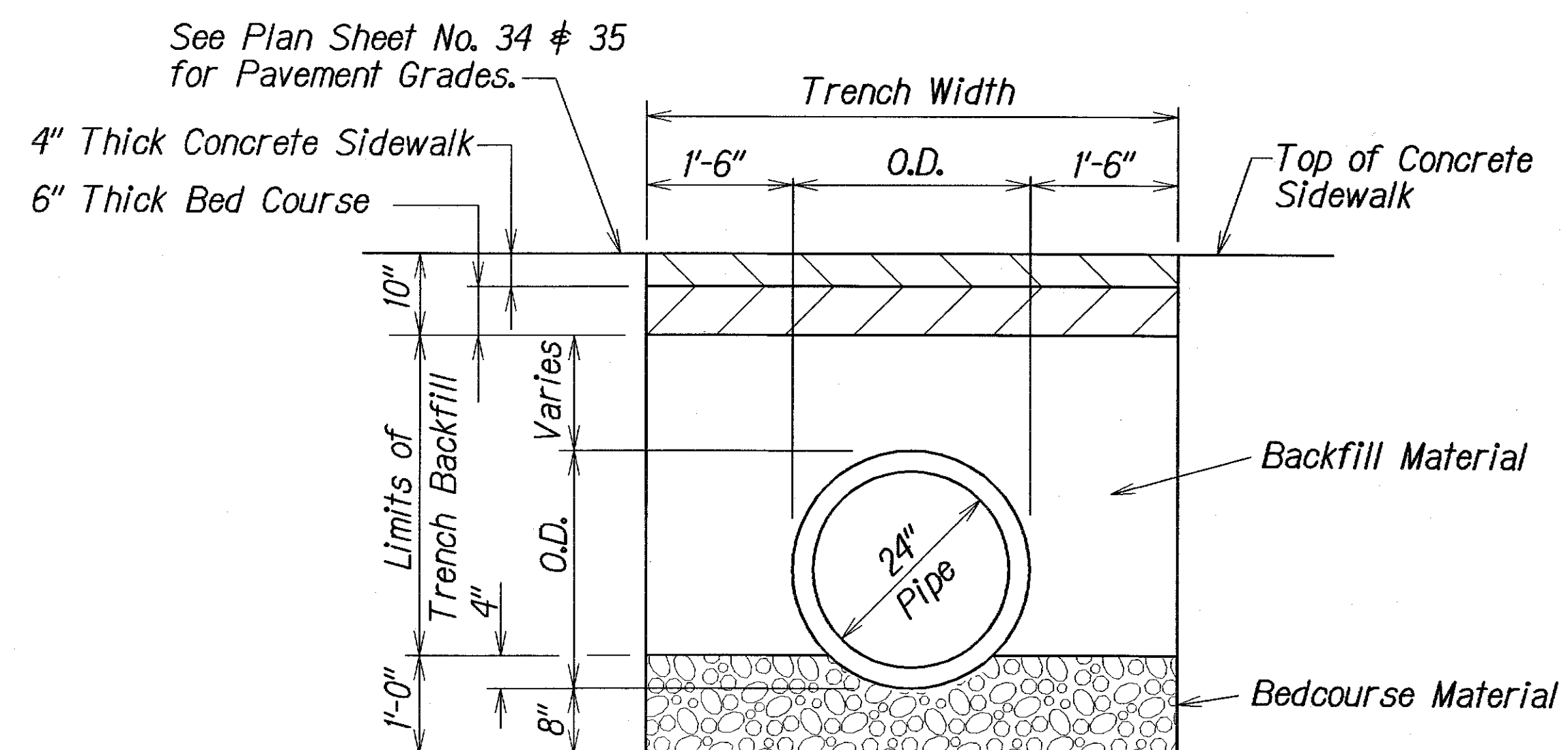
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	41	74



PROFILE OF 24" PIPE AT STA. 155+70 O/S 67' LT. TO STA. 160+25 LT.
Scale: Horz. 1"=20'
Vert. 1"=10'



PROFILE OF 24" PIPE AT STA. 155+28 LT.
Scale: Horz. 1"=20'
Vert. 1"=10'



DETAIL OF PIPE TRENCH RESTORATION
Scale: 3/4"=1'-0"

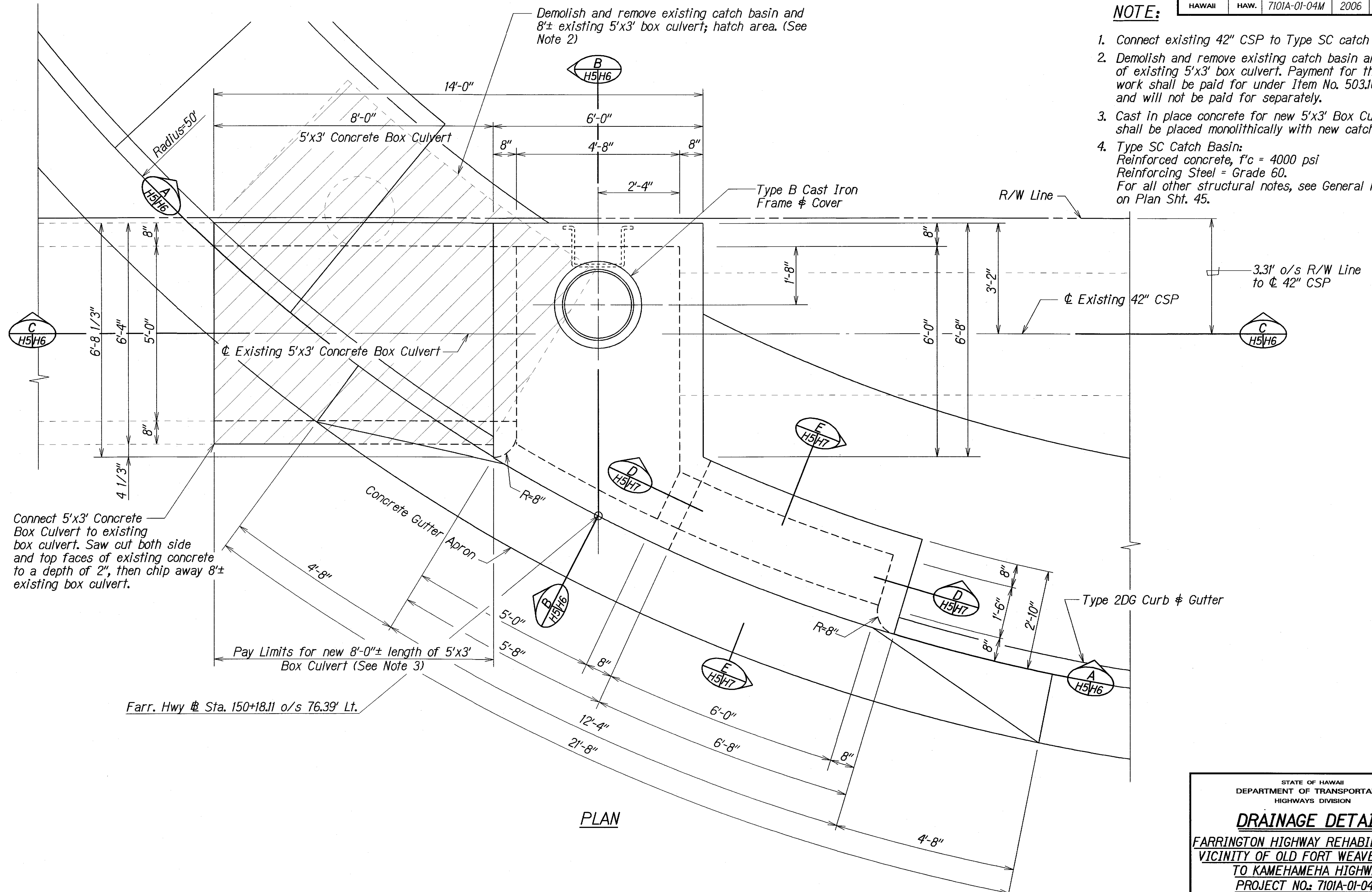
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PROFILE
FARRINGTON HIGHWAY REHABILITATION,
VICINITY OF OLD FORT WEAVER ROAD
TO KAMEHAMEHA HIGHWAY
PROJECT NO.: 7101A-01-04M
Scale: As Noted Date: Oct, 2004
SHEET No. H4 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	42	74

NOTE:

1. Connect existing 42" CSP to Type SC catch basin.
2. Demolish and remove existing catch basin and 8'± of existing 5'x3' box culvert. Payment for this work shall be paid for under Item No. 503.1092 and will not be paid for separately.
3. Cast in place concrete for new 5'x3' Box Culvert shall be placed monolithically with new catch basin.
4. Type SC Catch Basin:
Reinforced concrete, f'c = 4000 psi
Reinforcing Steel = Grade 60.
For all other structural notes, see General Notes on Plan Sht. 45.



DETAILS OF TYPE SC CATCH BASIN AT FARRINGTON HIGHWAY @ STA 150+18.11 O/S 76.39' LT.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

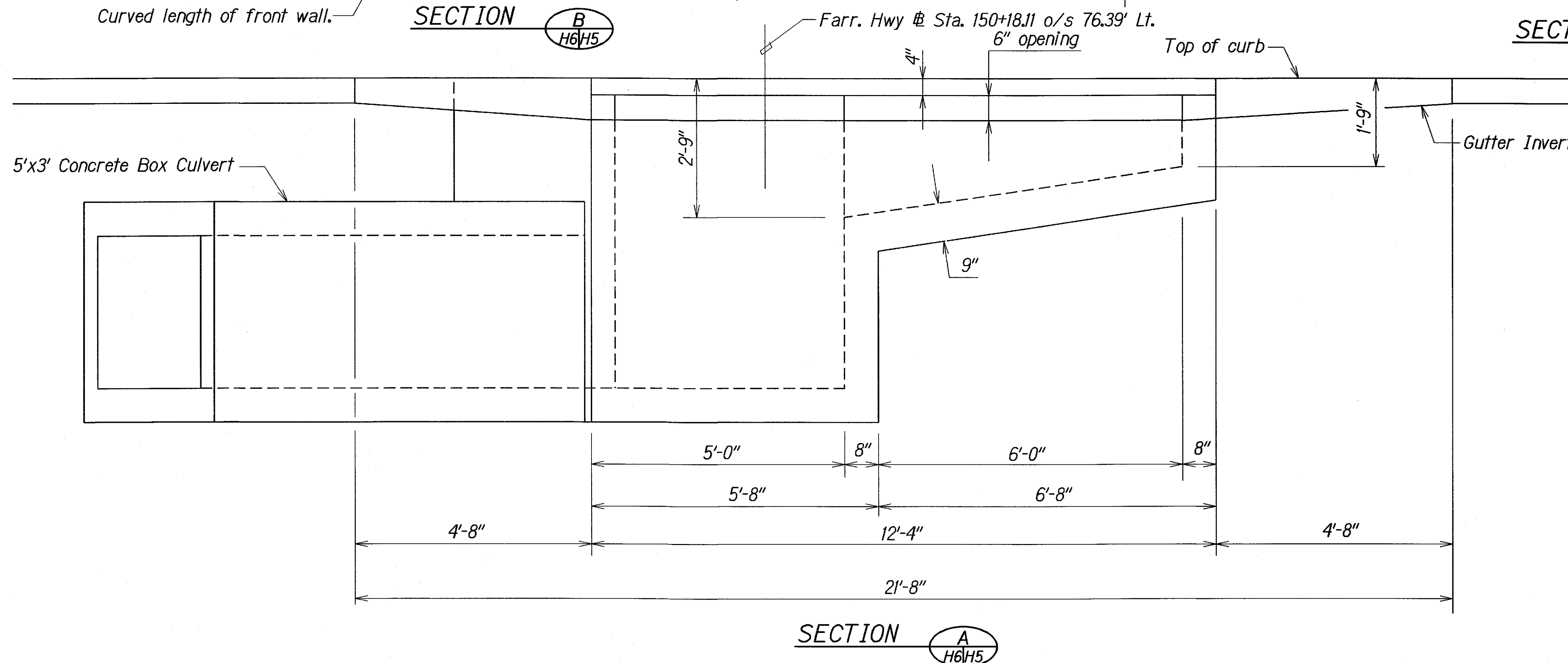
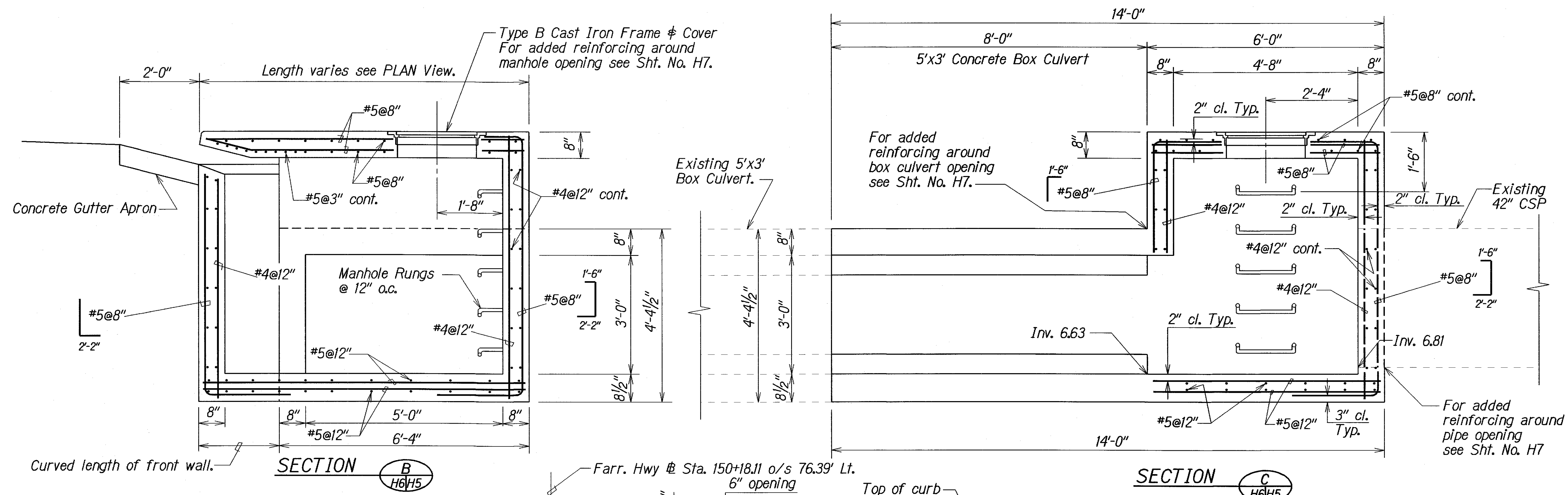
DRAINAGE DETAILS

FARRINGTON HIGHWAY REHABILITATION,
VICINITY OF OLD FORT WEAVER ROAD
TO KAMEHAMEHA HIGHWAY
PROJECT NO.: 7101A-01-04M

Scale: 3/4" = 1'-0" Date: Sep, 2004

SHEET No. H5 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	43	74



DETAILS OF TYPE SC CATCH BASIN AT FARRINGTON HIGHWAY @ STA 150+18.11 O/S 76.39' LT.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

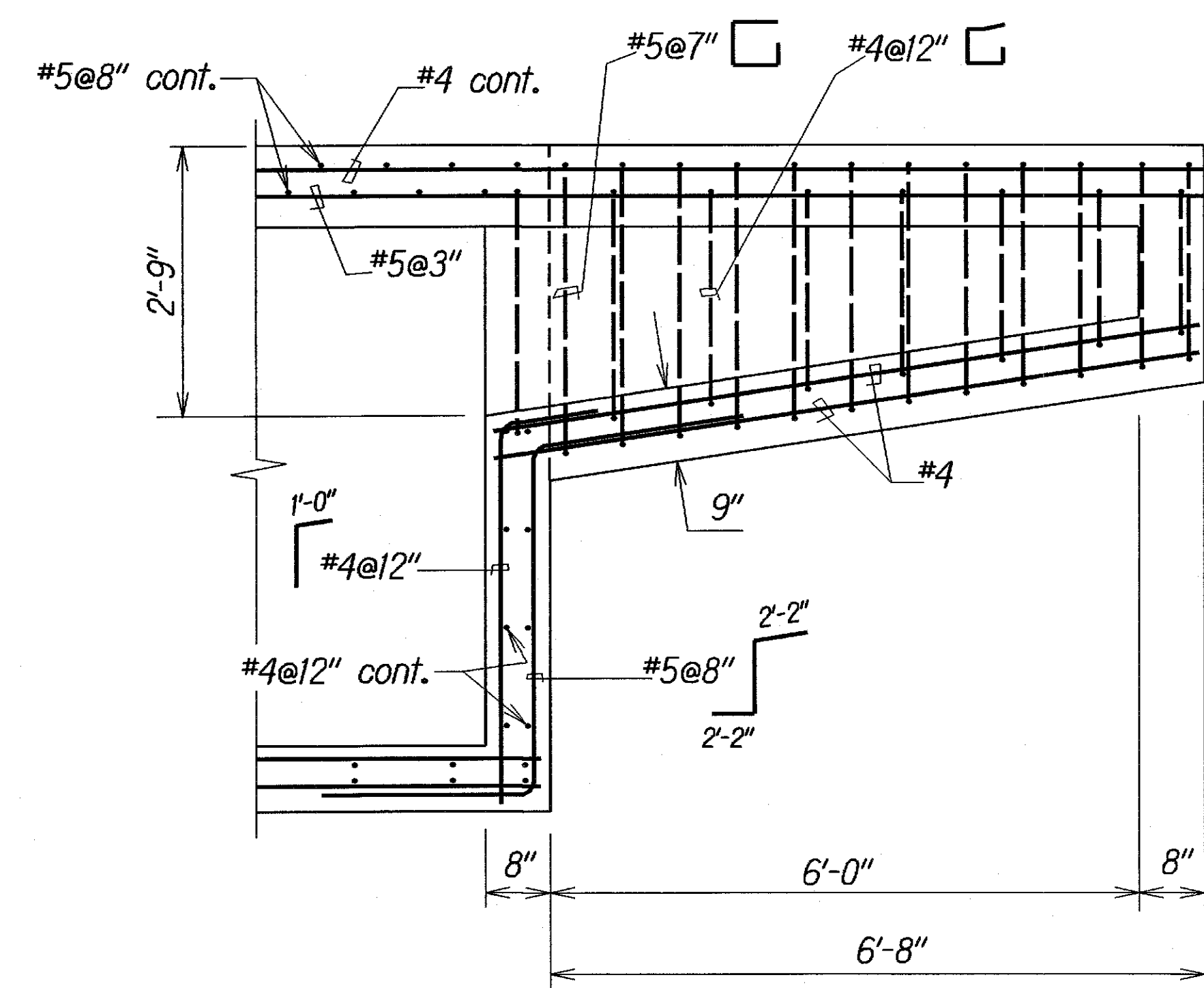
FARRINGTON HIGHWAY REHABILITATION,
VICINITY OF OLD FORT WEAVER ROAD
TO KAMEHAMEHA HIGHWAY
PROJECT NO.: 7101A-01-04M

Scale: 3/4" = 1'-0" Date: Sep, 2004

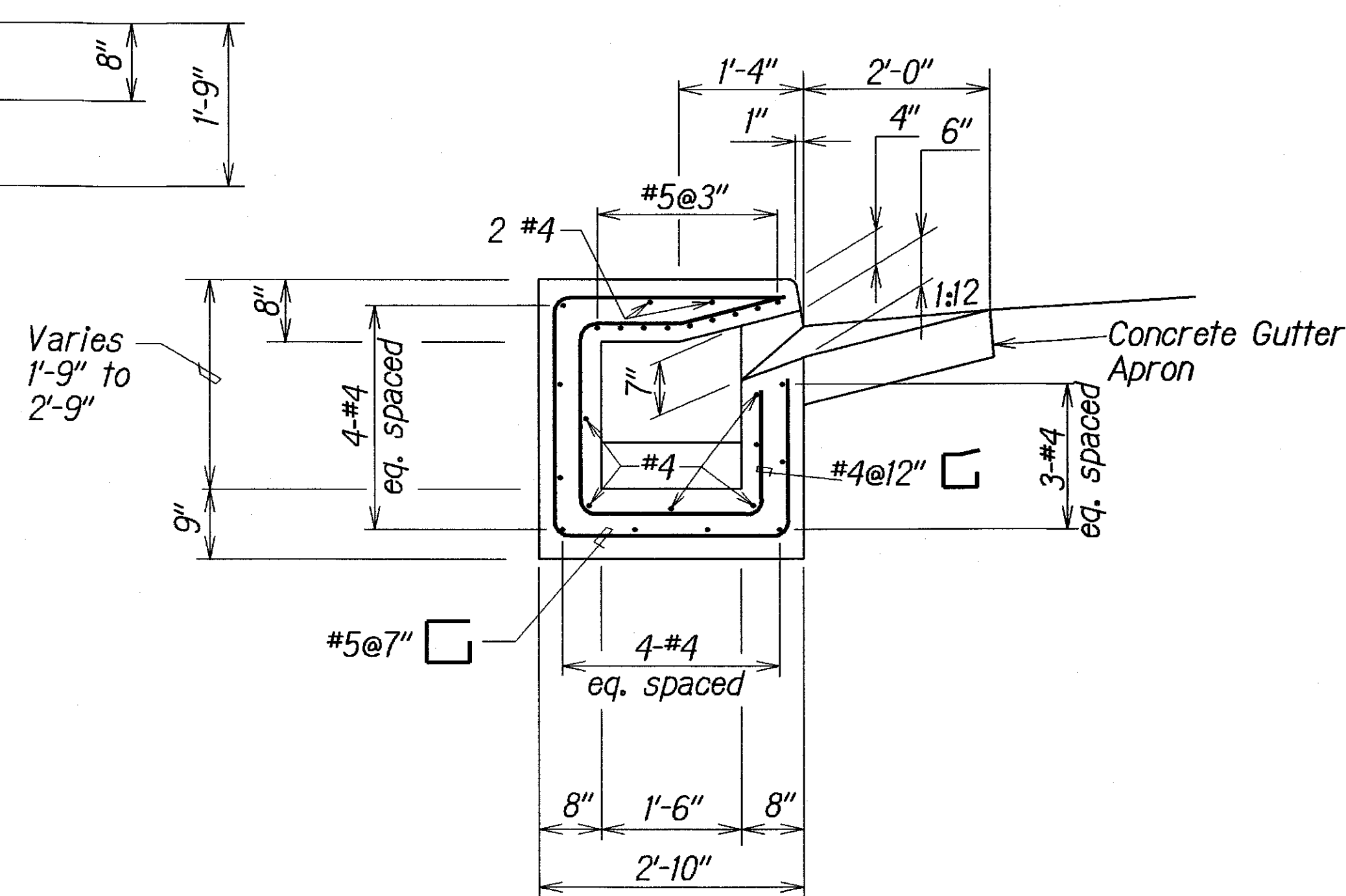
SHEET No. H6 OF 7 SHEETS

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	9/13/04
DRAWN BY	LEC
DESIGNED BY	9/13/04
CHECKED BY	
NOTED BY	
DATE	

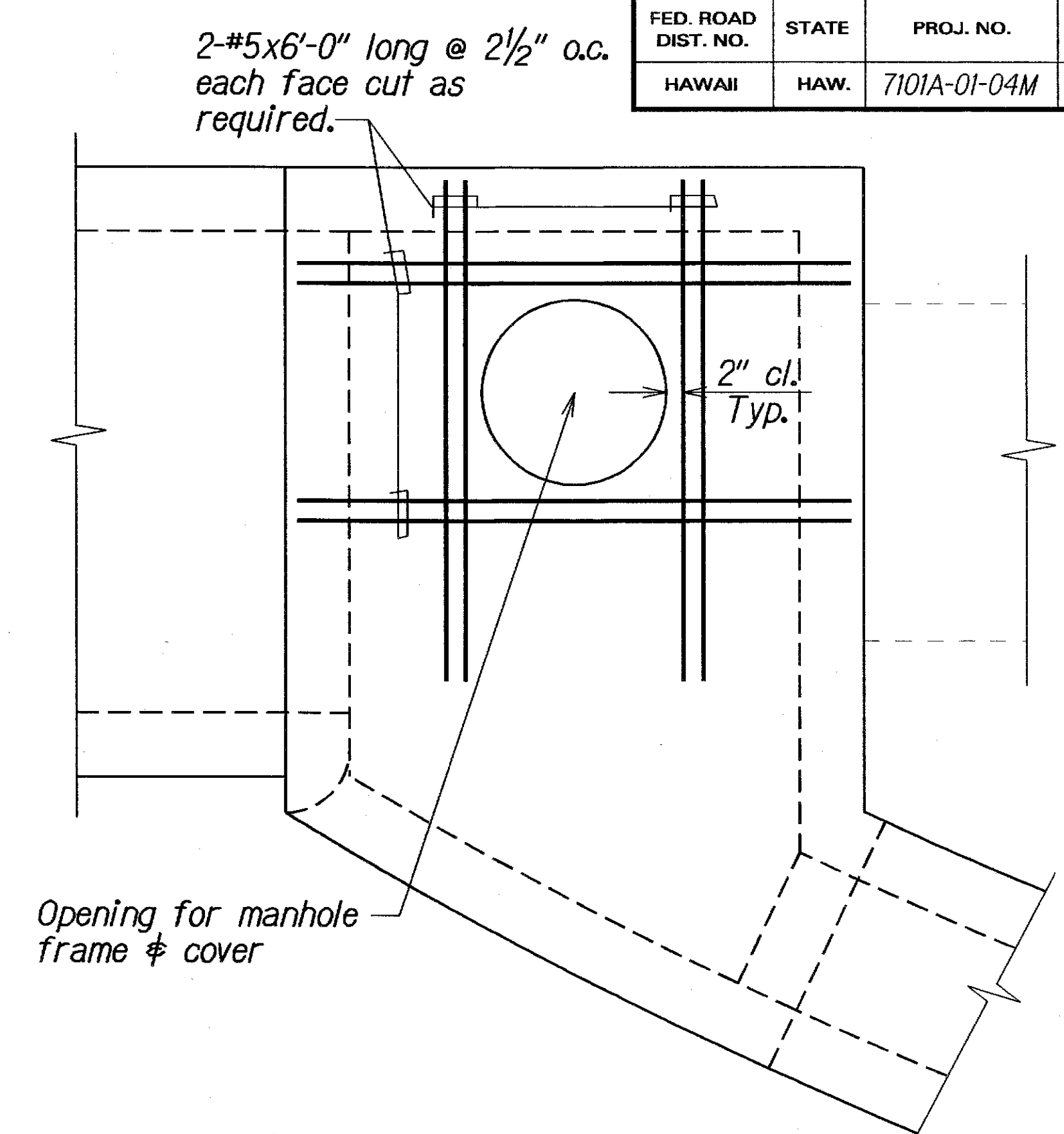
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	44	74



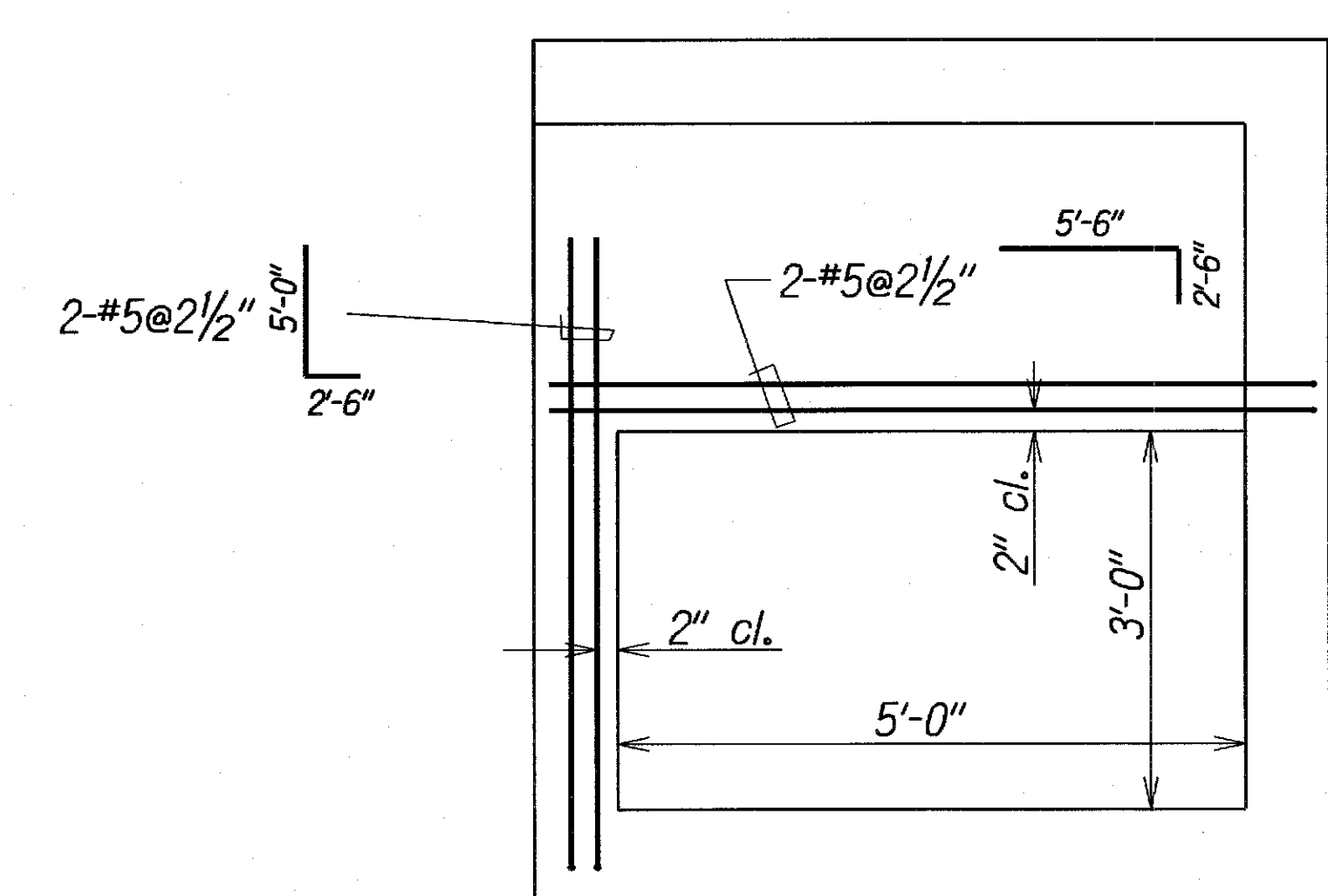
SECTION D
H7/H5



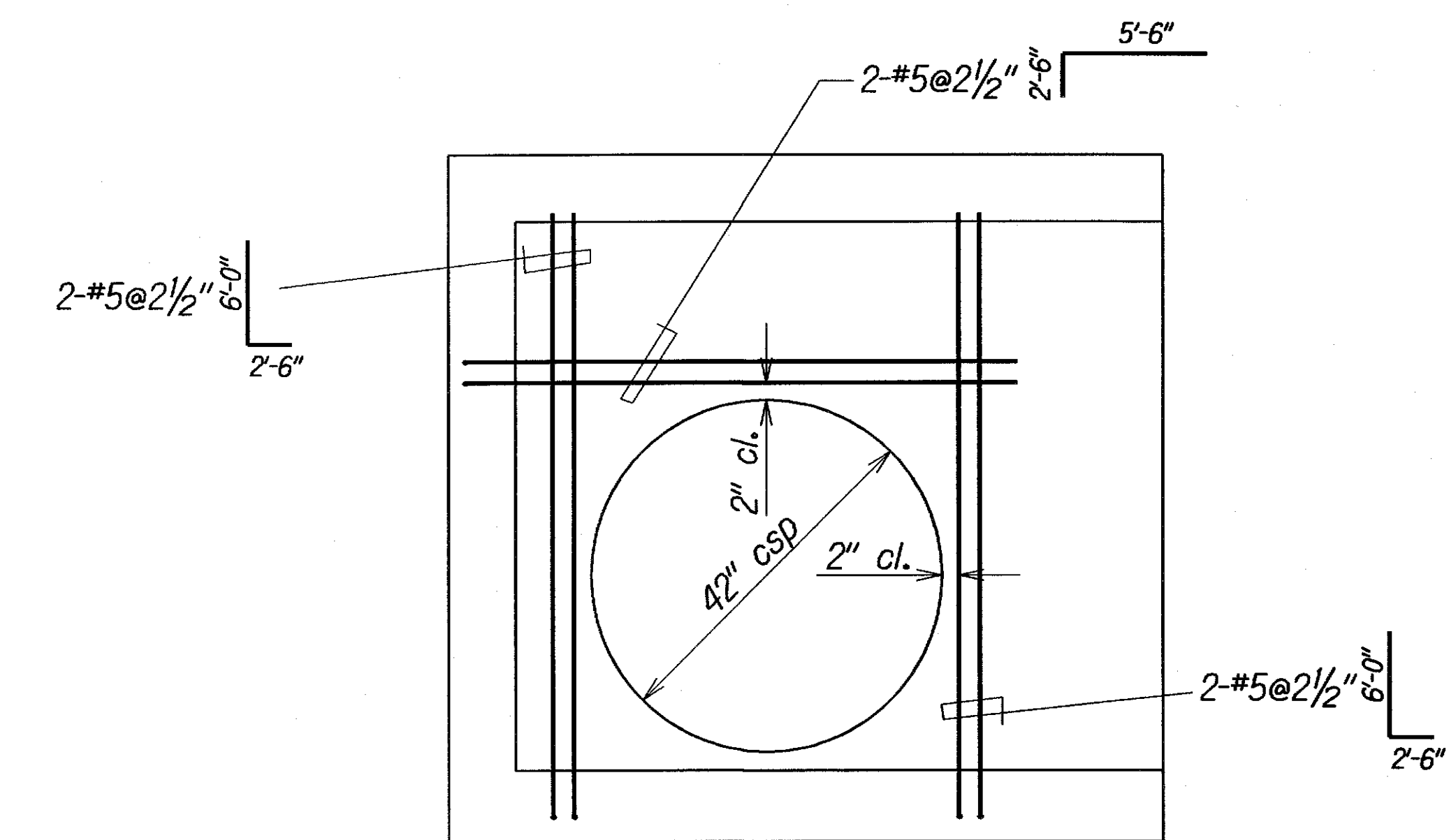
SECTION E
H7/H5



ADDED REINFORCING FOR MANHOLE OPENING



ADDED REINFORCING FOR BOX CULVERT OPENING



ADDED REINFORCING FOR PIPE OPENING

DETAILS OF TYPE SC CATCH BASIN AT FARRINGTON HIGHWAY @ STA 150+18.11 O/S 76.39' LT.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

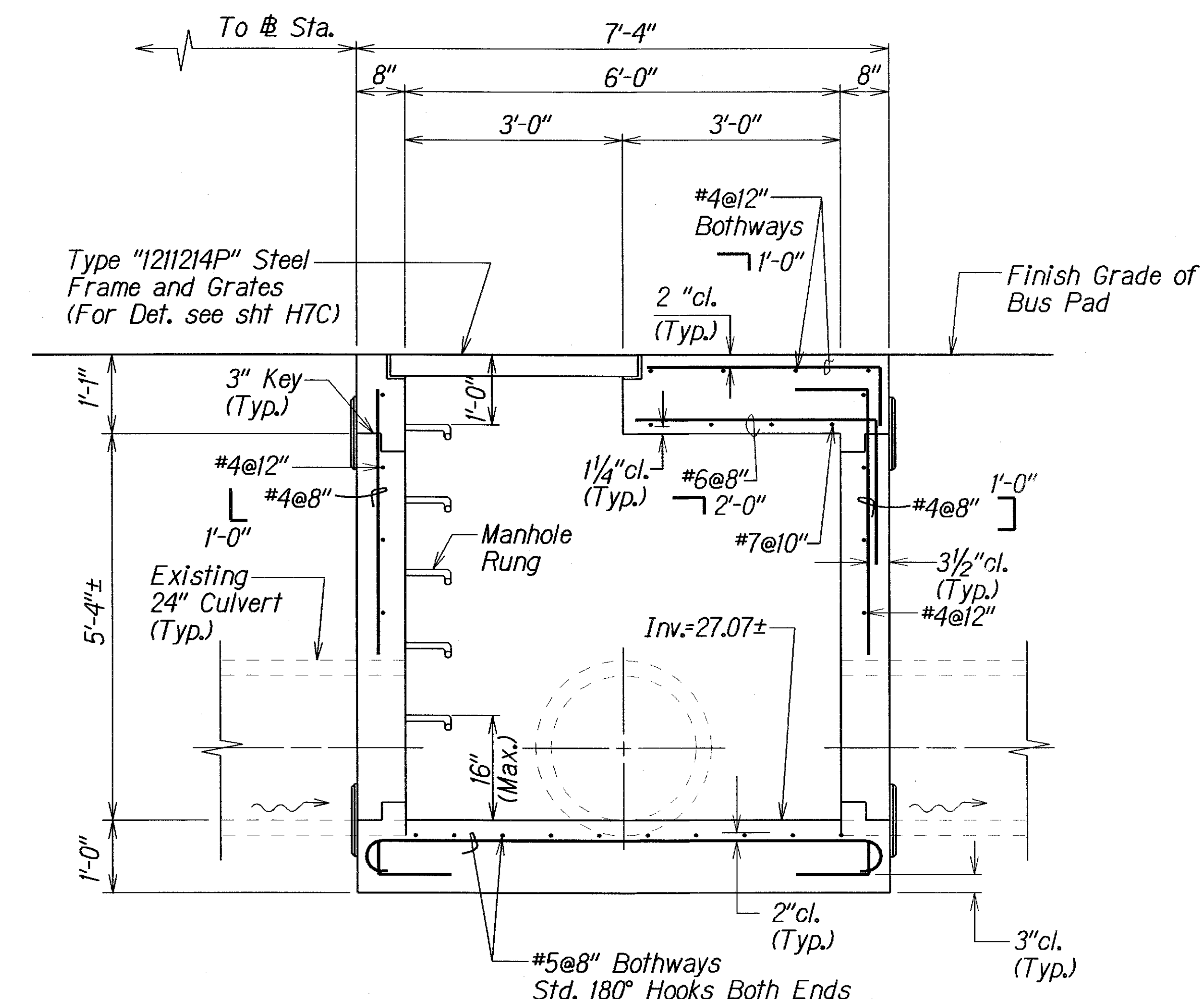
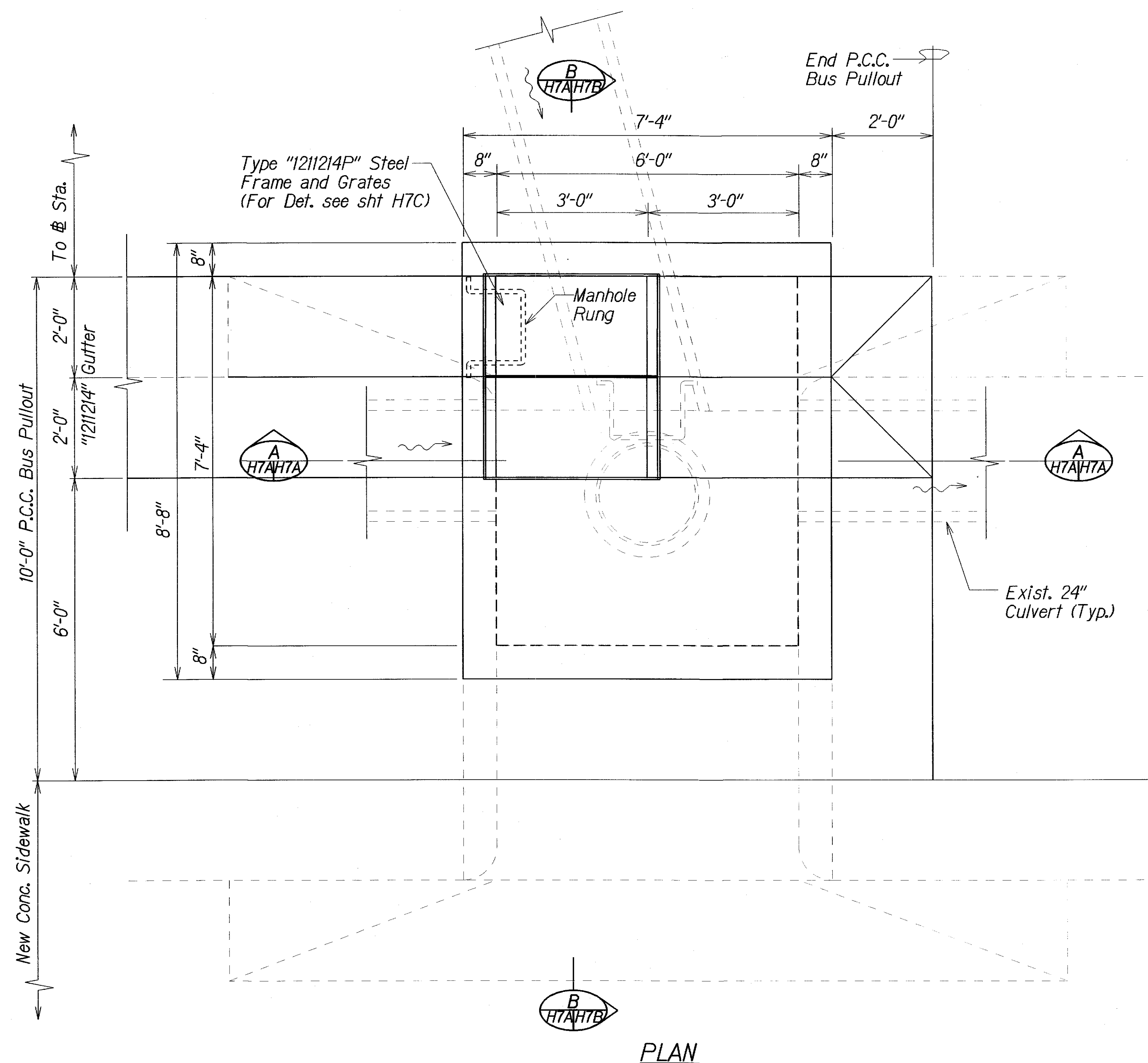
**FARRINGTON HIGHWAY REHABILITATION,
VICINITY OF OLD FORT WEAVER ROAD
TO KAMEHAMEHA HIGHWAY
PROJECT NO.: 7101A-01-04M**

Scale: 3/4" = 1'-0" Date: Sep, 2004

SHEET No. **H7** OF 7 SHEETS

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	9/13/04
DRAWN BY	LEG
CHECKED BY	2/13/04
NOTED BY	
DESIGNED BY	
APPROVED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	C.O.44S-1	74



SECTION A

PLAN

Notes:

1. Connect existing 24" culverts to Type "1211214P" GDI
2. Existing 24" Culvert Shall be Cut Flush with the Inside Face of the GDI
3. Demolish, Remove, and Dispose Existing Catch Basin.
4. The Contractor shall verify the locations of culverts prior to commencing work.
5. $F'c = 5,000$ psi
6. $F_y = 60,000$ psi
7. For Waterproofing Detail at Joints, see Std Plan B-01.
8. For Added Reinforcing around Culvert Openings, see Std. Plan H-04.

DETAILS OF TYPE "1211214P" GDI AT # STA. 59+16.33± RT.

11/12/06 Added Detail

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAIL

FARRINGTON HIGHWAY REHABILITATION,
VICINITY OF OLD FORT WEAVER ROAD
TO KAMEHAMEHA HIGHWAY
PROJECT NO.: 7101A-01-04M

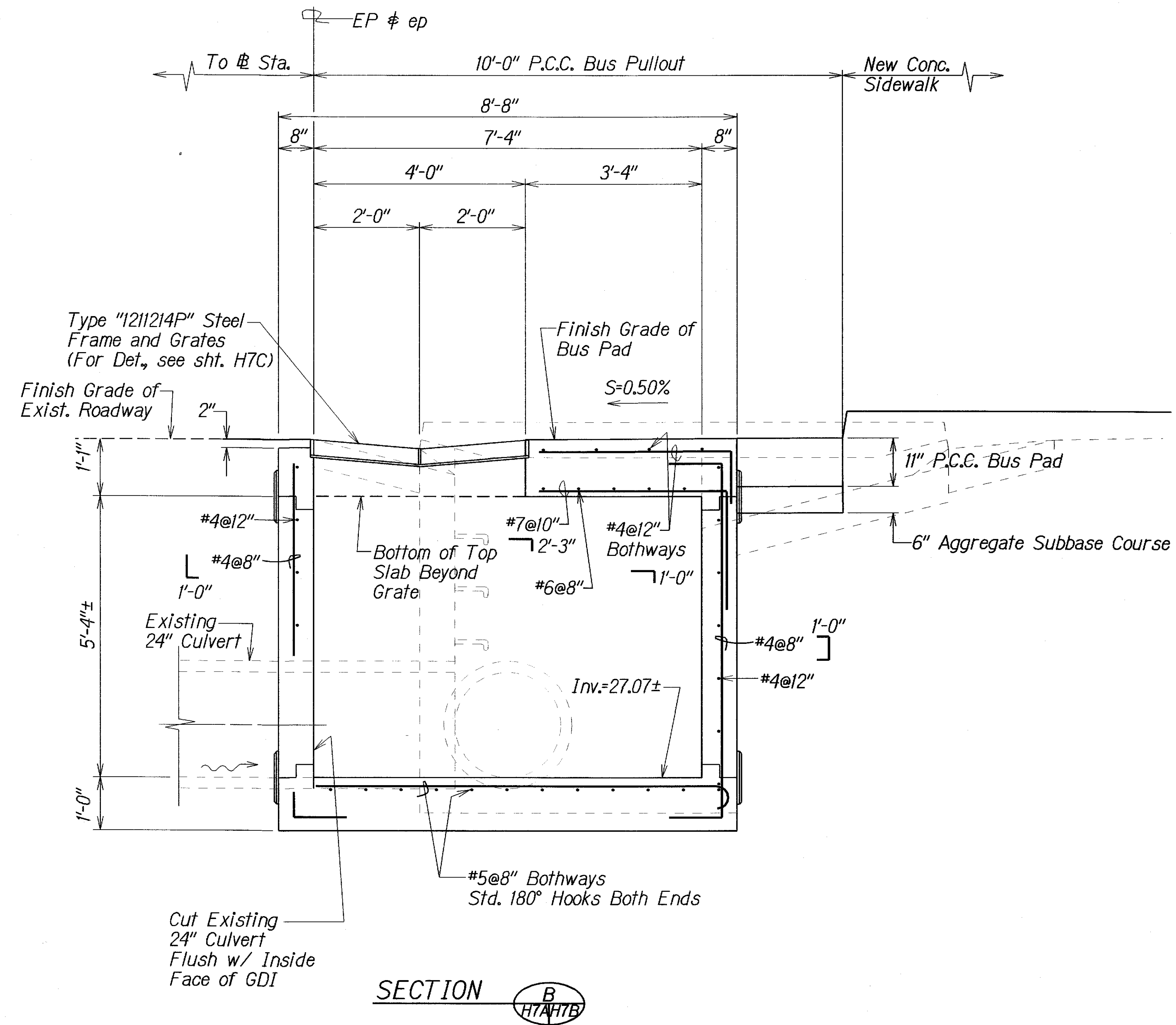
Scale: 3/4"=1'-0" Date: September, 2006

SHEET No. H7A OF 7 SHEETS

C.O.44S-1

ORIGINAL	DATE
DESIGNED BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	C.O.44S-2	74



DETAILS OF TYPE "1211214P" GDI AT # STA. 59+16.33± RT.

11/12/06	Added Detail
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>DRAINAGE DETAIL</u> <u>FARRINGTON HIGHWAY REHABILITATION,</u> <u>VICINITY OF OLD FORT WEAVER ROAD</u> <u>TO KAMEHAMEHA HIGHWAY</u> <u>PROJECT NO.: 7101A-01-04M</u> Scale: 3/4"=1'-0" Date: September, 2006 SHEET No. H7B OF 7 SHEETS	

C.O.44S-2

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

C.O.44S-3