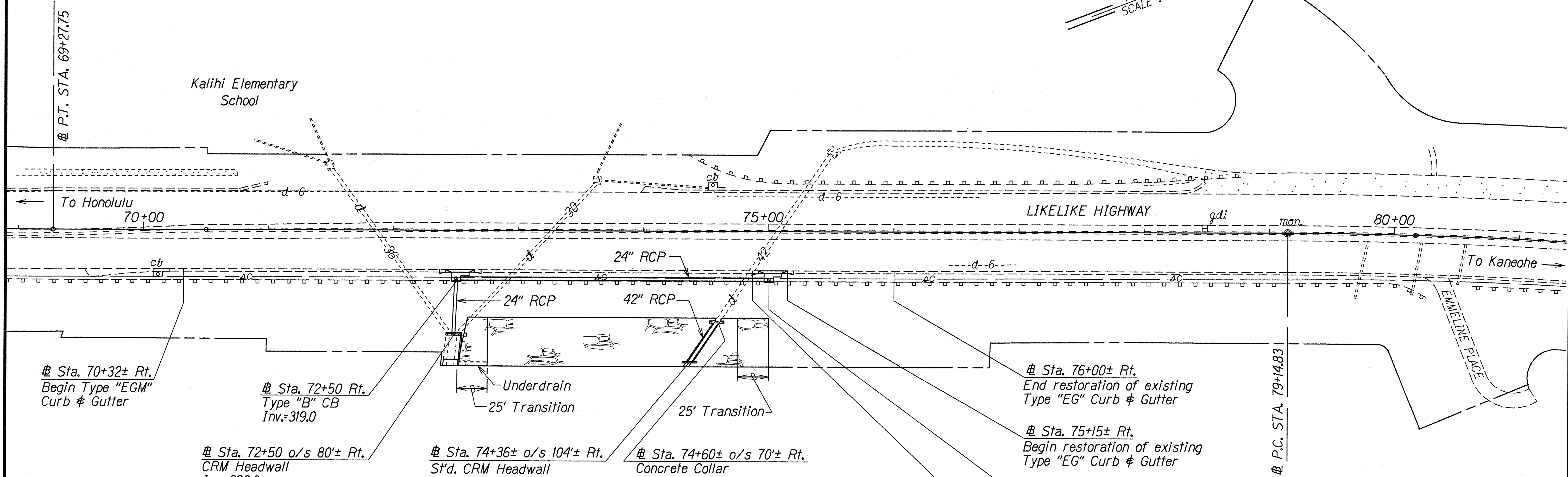


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-94M	1995	6	11



Sta. 70+32± Rt.
Begin Type "EGM"
Curb & Gutter

Sta. 72+50 Rt.
Type "B" CB
Inv.=319.0

Sta. 72+50 o/s 80'± Rt.
CRM Headwall
Inv.=298.0±

Sta. 74+36± o/s 104'± Rt.
St'd. CRM Headwall
Inv.=301.0±

Sta. 74+60± o/s 70'± Rt.
Concrete Collar

Sta. 76+00± Rt.
End restoration of existing
Type "EG" Curb & Gutter

Sta. 75+15± Rt.
Begin restoration of existing
Type "EG" Curb & Gutter

Sta. 75+00 Rt.
Type "B" CB
Inv.=333.0

Sta. 74+87± Rt.
End Type "EGM" Curb & Gutter

Sta. 75+15± Rt. to # Sta. 76+00 Rt.
Restore existing Type "EG" Curb & Gutter
(For Details see Sht. No. H4)
Restoration shall not be paid for separately,
but shall be considered incidental to the A.C.
Pavement Overlay.

Sta. 72+50 Rt.
Construct: Type "B" CB
Install: 24" RCP, Cl. III
(For Profile see Sht. No. H3)

Estimated Quantities
Structure Excavation = 35 C.Y.
Type "B" CB,
6.00 Ft. to 6.99 Ft. = 1 Ea.
24" RCP, Cl. III = 50 L.F.

Sta. 72+50 o/s 80'± Rt.
Construct: CRM Headwall & CRM Outlet
(For Details see Sht. No. H2 & H3)
Grout pipe separation at outlet and
approximately 6' inside both pipes with
mortar. (For Details see Sht. No. H3)
(Payment shall be considered incidental
to the Surge Rock Fill)

Estimated Quantities
Structure Exc. = 7 C.Y.
CRM = 11 C.Y.

Sta. 72+50± Rt. to # Sta. 72+75 Rt.
Construct: 3'-0" wide x 3'-6" high Underdrain
Install: 8"Ø Non-Perforated PVC Pipe, 1'-0" long
(For Details see Sht. No. H2)

Estimated Quantities
Underdrain = 25 L.F.

Sta. 74+36± o/s 104'± Rt.
Construct: St'd. CRM Headwall
(Use St'd. Conc. Headwall dimensions)
Install: 42" RCP, Cl. III

Estimated Quantities
Structure Exc. = 5 C.Y.
42" RCP, Cl. III = 40 C.Y.
CRM = 6 C.Y.

Sta. 74+60± o/s 70'± Rt.
Extend Existing 42" Culvert
(For Connection Detail see Sht. No. H4)
Conc. Collar shall not be paid for
separately, but shall be considered
incidental to the various contract items.
Grout pipe separation at outlet and
approximately 16' inside pipe with
mortar. (For Details see Sht. No. H3)
(Payment shall be considered incidental
to the Surge Rock Fill)

Sta. 75+00 Rt.
Construct: Type "B" CB
Install: 24" RCP, Cl. III

Estimated Quantities
Structure Excavation = 250 C.Y.
Bed Course Material
for Culvert = 45 C.Y.
Type "B" CB,
5.00 Ft. to 5.99 Ft. = 1 Ea.
24" RCP, Cl. III = 246 L.F.

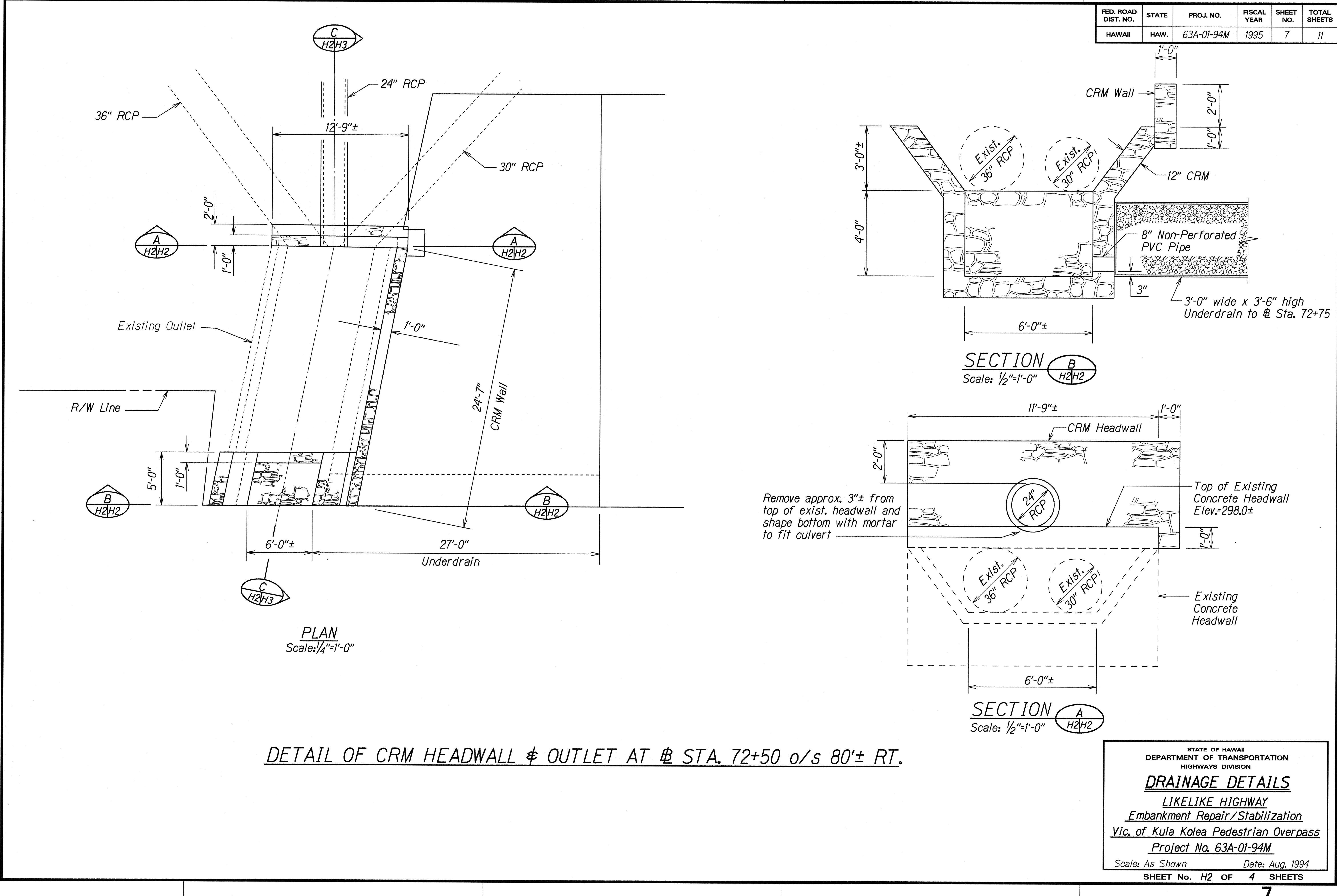
ORIGINAL PLAN	DATE	8/14/94
DESIGNED BY	DESIGNED BY	
QUANTITIES BY	QUANTITIES BY	
CHECKED BY	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

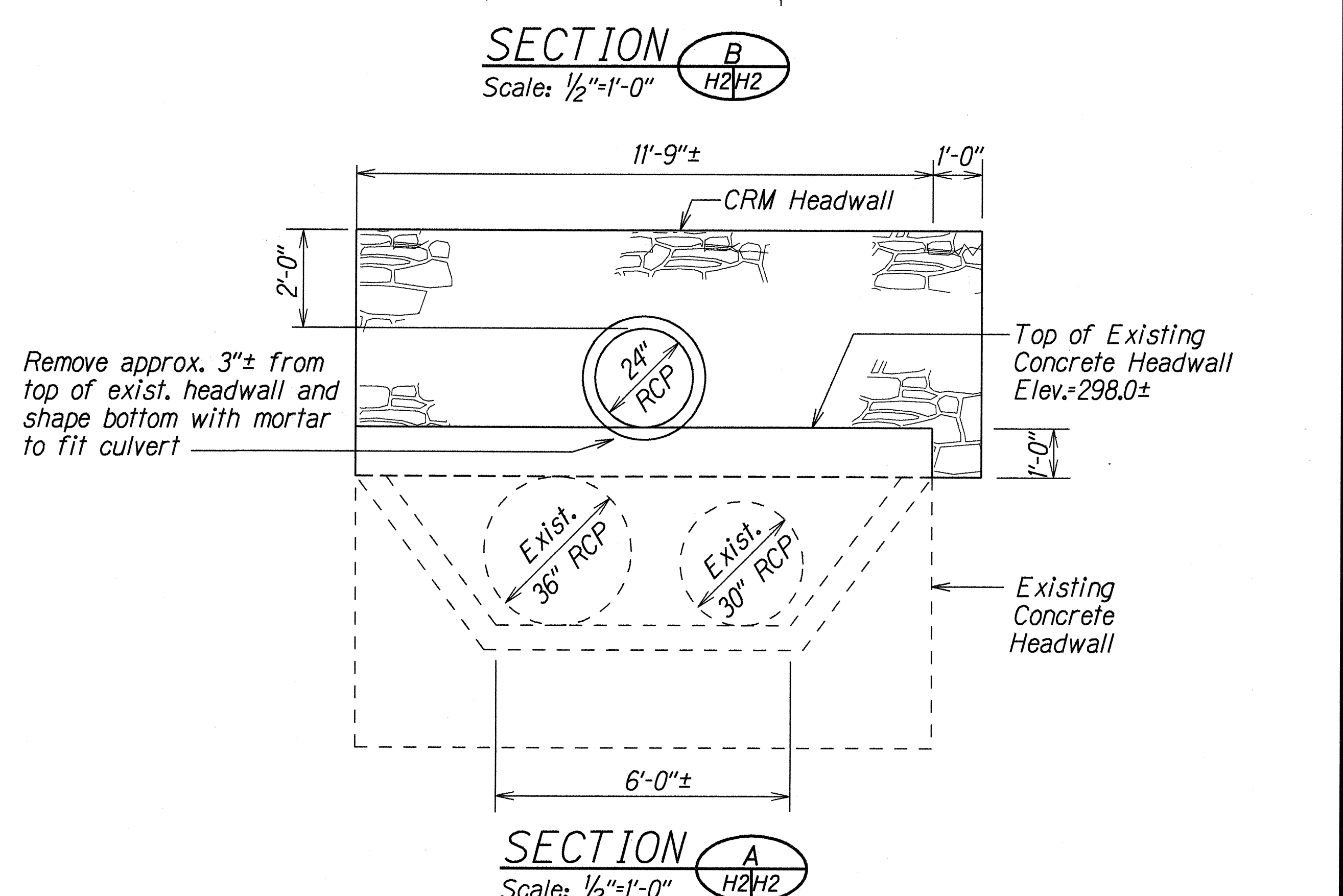
DRAINAGE PLAN
LIKELIKE HIGHWAY
Embankment Repair/Stabilization
Vic. of Kula Kolea Pedestrian Overpass
Project No. 63A-01-94M
Scale: 1"=40' Date: Aug. 1994

SHEET No. 11 OF 4 SHEETS

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DETAIL OF CRM HEADWALL & OUTLET AT STA. 72+50 o/s 80'± RT.



SECTION B
 Scale: 1/4"=1'-0" H2/H2

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

LIKELIKE HIGHWAY

Embankment Repair/Stabilization

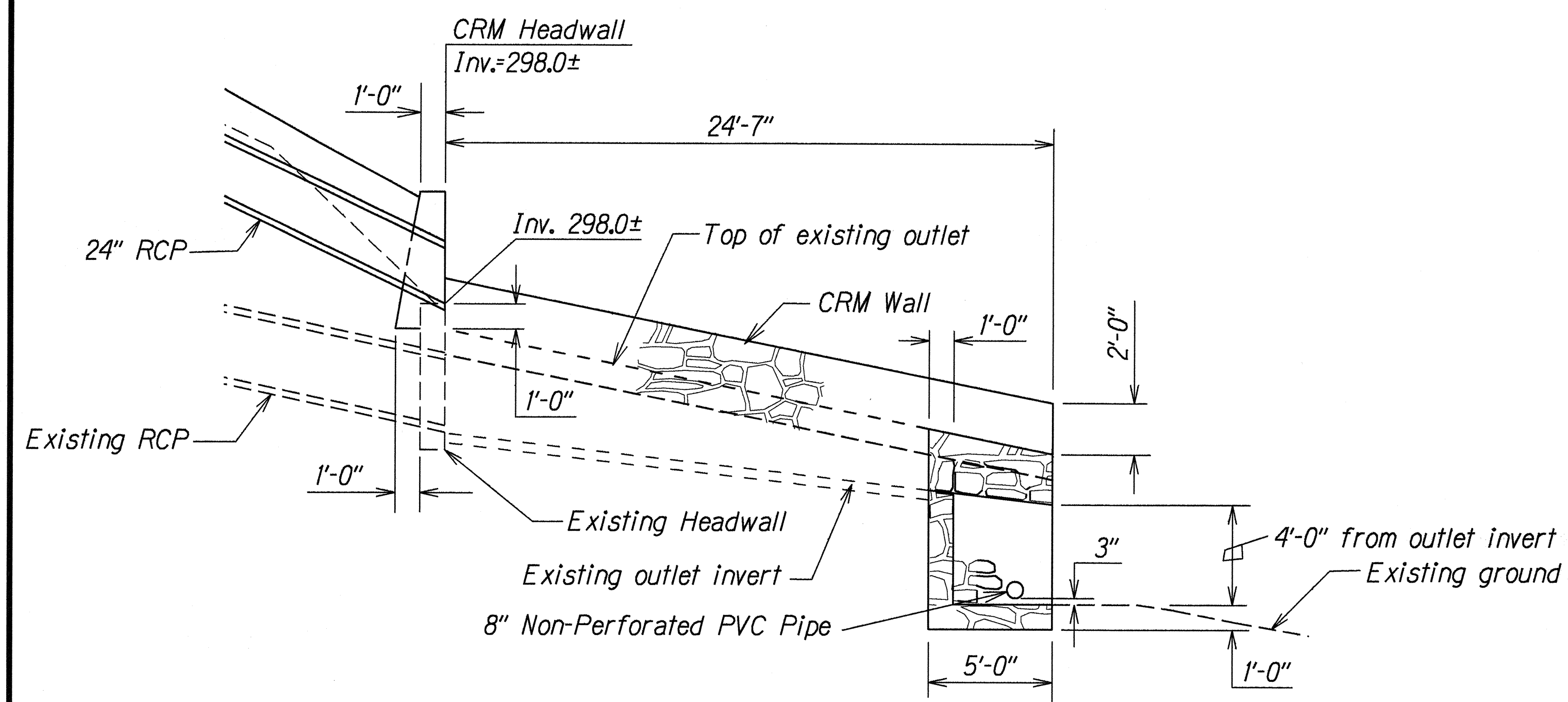
Vic. of Kula Kolea Pedestrian Overpass

Project No. 63A-01-94M

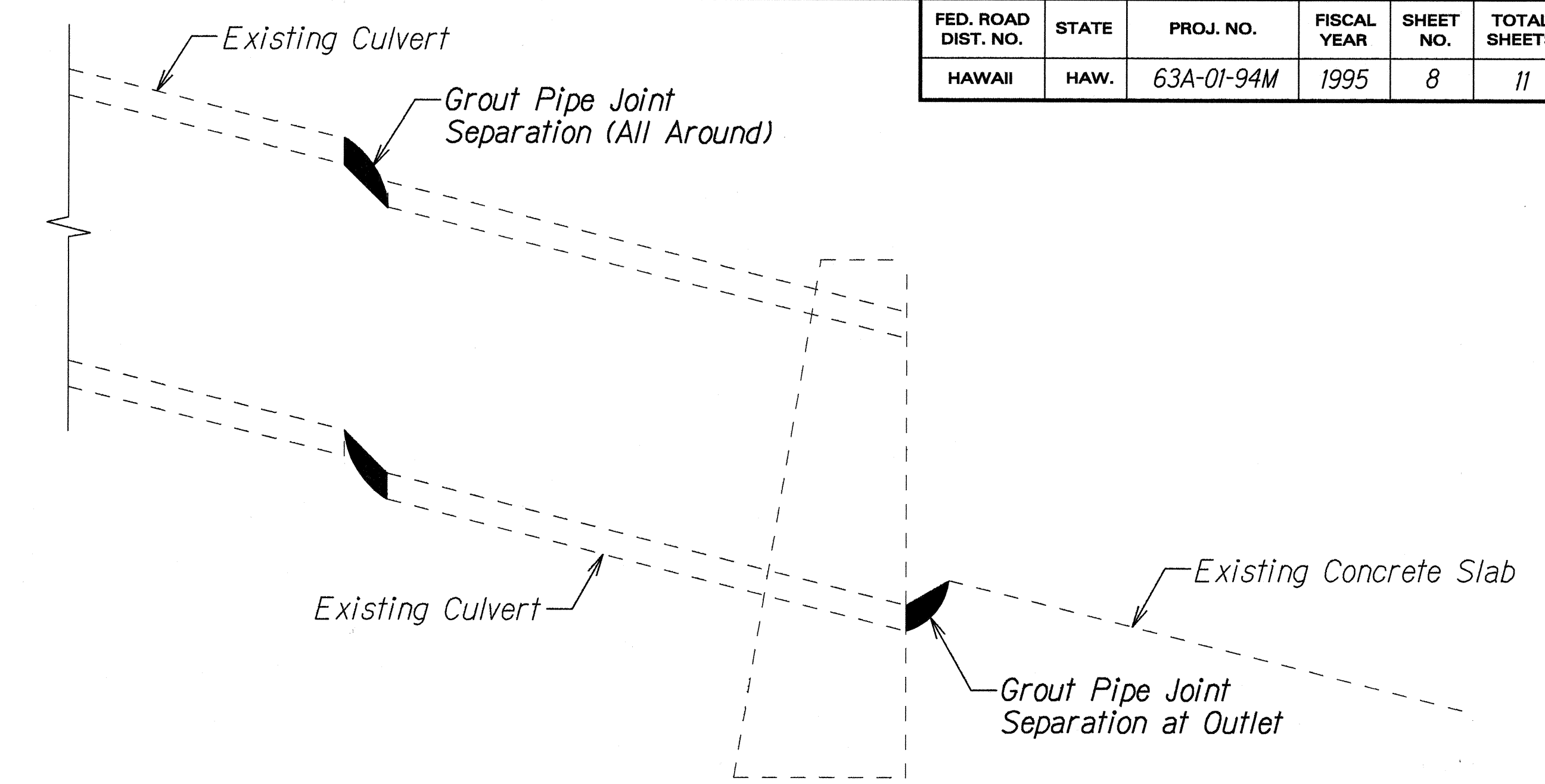
Scale: As Shown Date: Aug. 1994

SHEET No. 42 OF 4 SHEETS

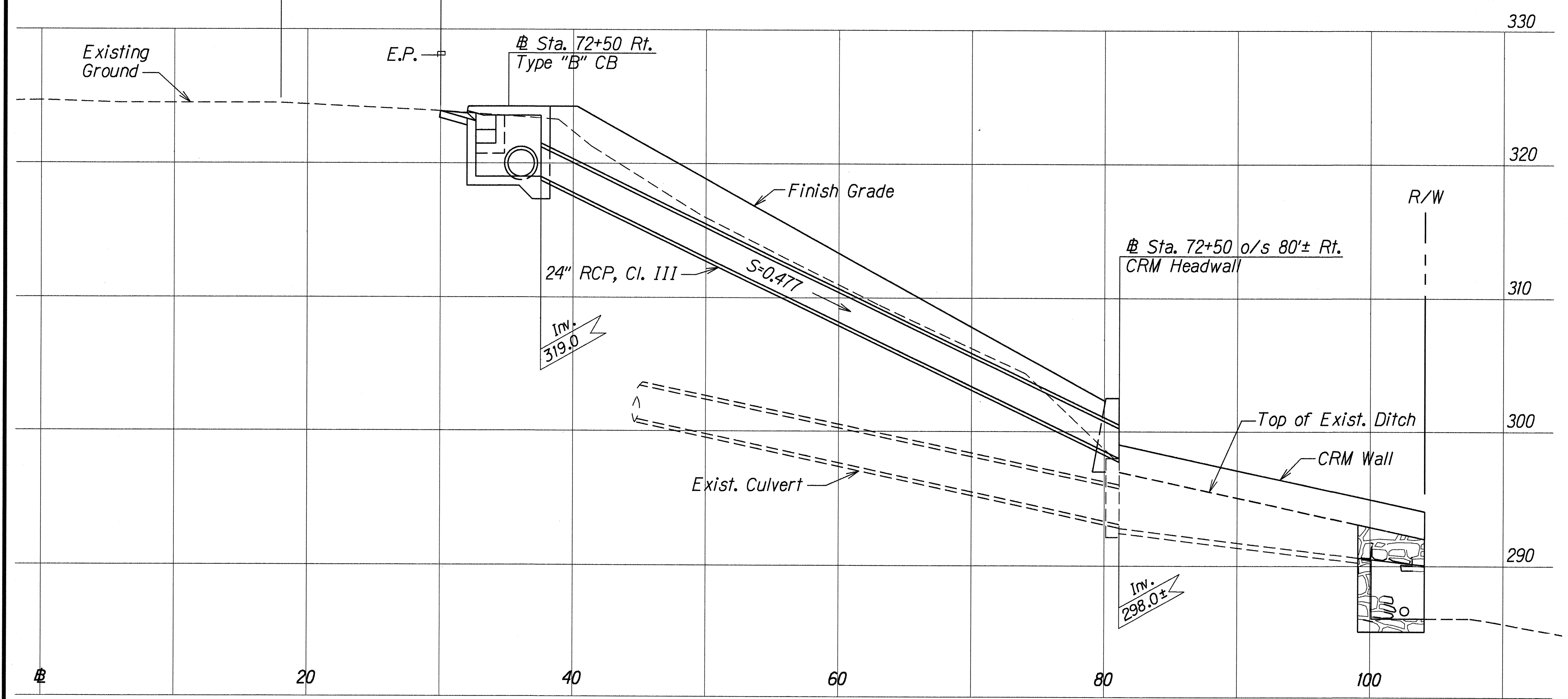
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-94M	1995	8	11



SECTION C
Scale: 1/4"=1'-0"



DETAIL OF EXISTING PIPE JOINT REPAIR
Scale: 3/4"=1'-0"



PROFILE OF CULVERT AT STA. 72+50 RT.
Scale: 1"=5'

ORIGINAL PLAN	DATE	04/94
DESIGNED BY	DESIGNED BY	CHITOSUO
QUANTITIES BY	QUANTITIES BY	CHITOSUO
CHECKED BY	CHECKED BY	CHITOSUO

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

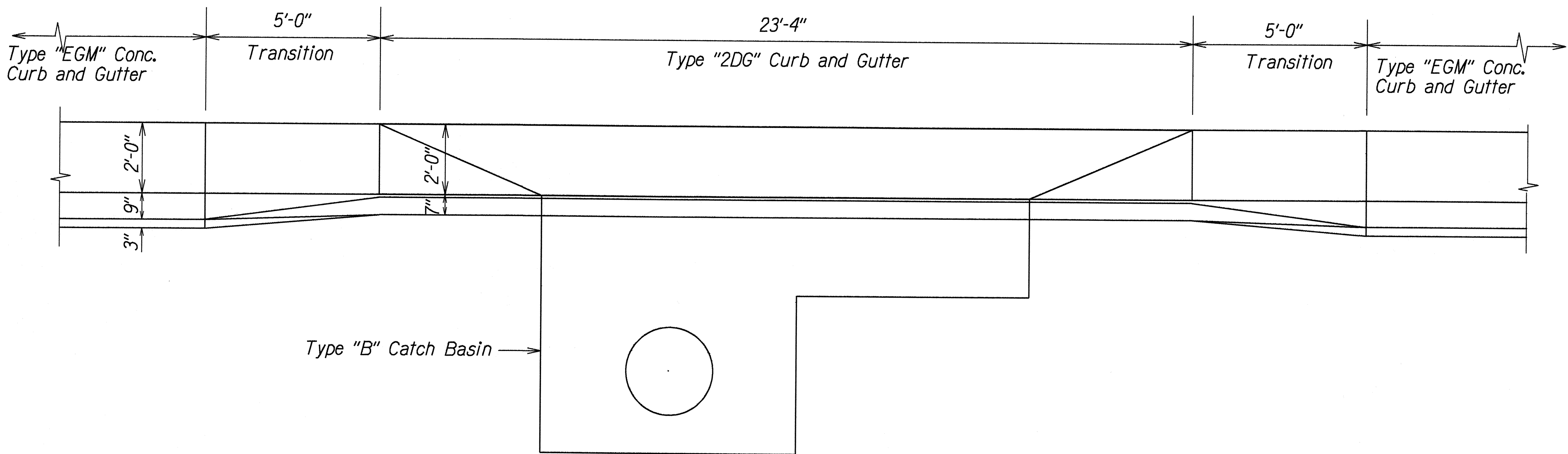
DRAINAGE DETAILS

LIKELIKE HIGHWAY
Embankment Repair/Stabilization
Vic. of Kula Koea Pedestrian Overpass
Project No. 63A-01-94M

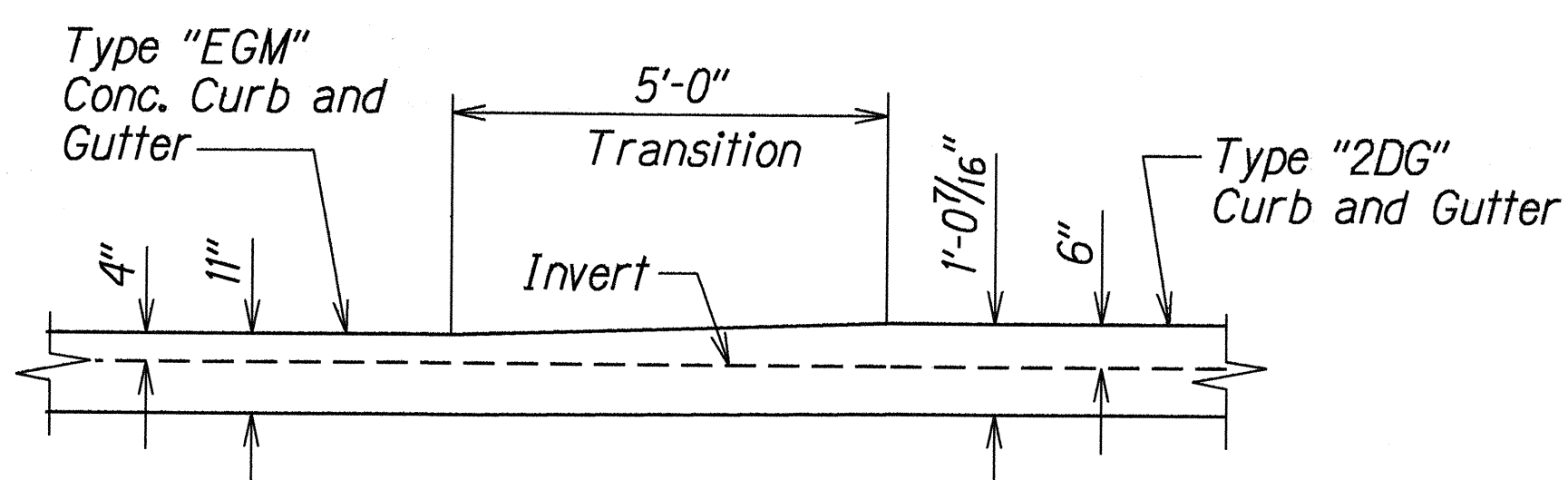
Scale: As Shown Date: Aug. 1994

SHEET No. H3 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-94M	1995	9	11

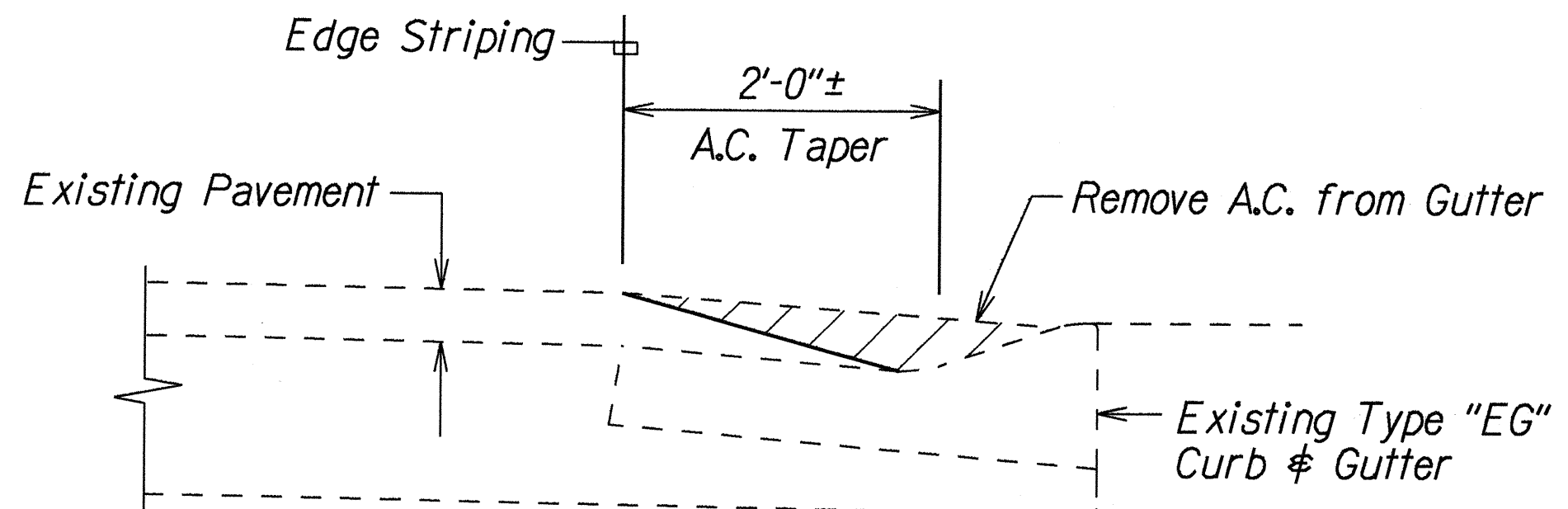


PLAN
Scale: 1/2"=1'-0"

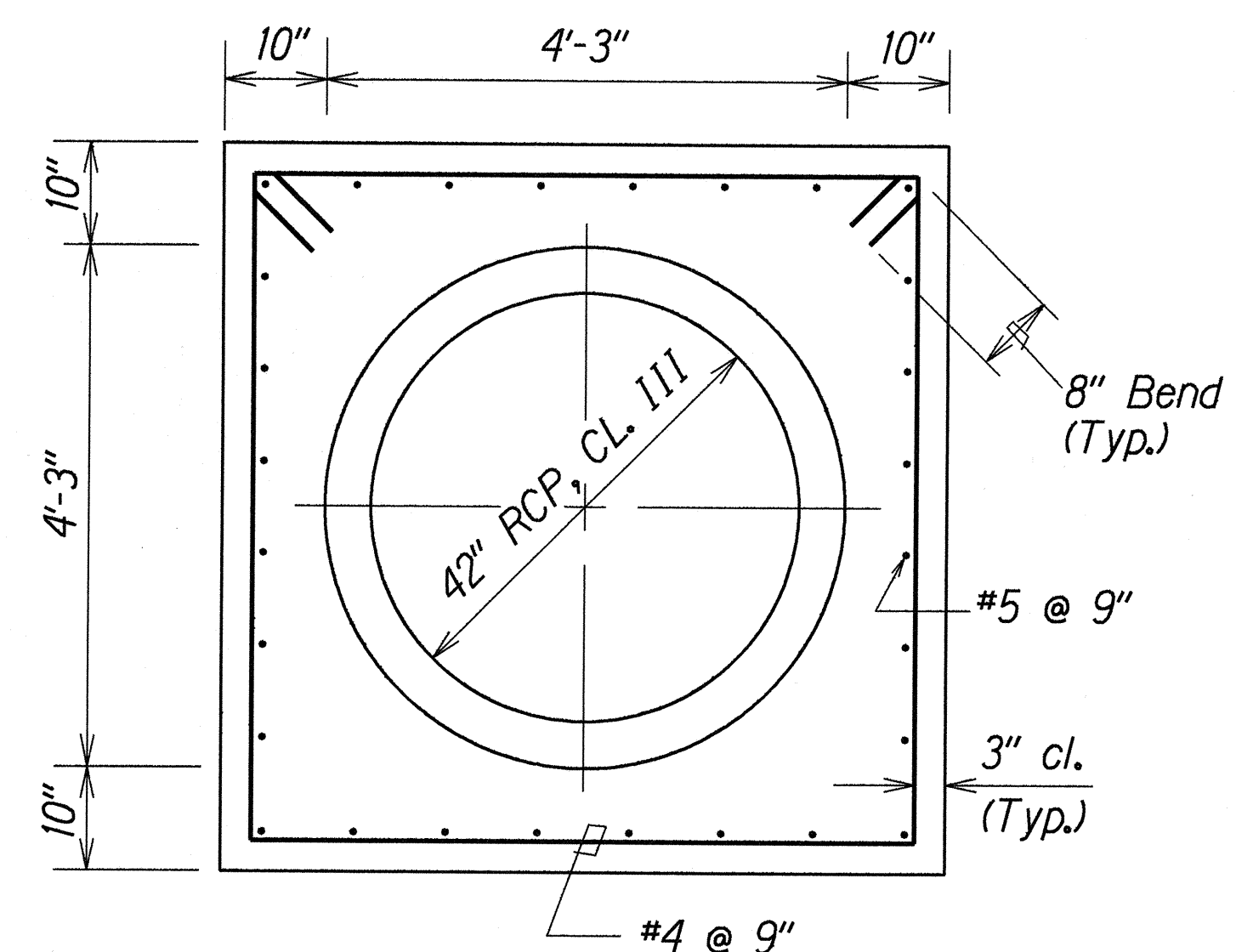


ELEVATION
Scale: 1/2"=1'-0"

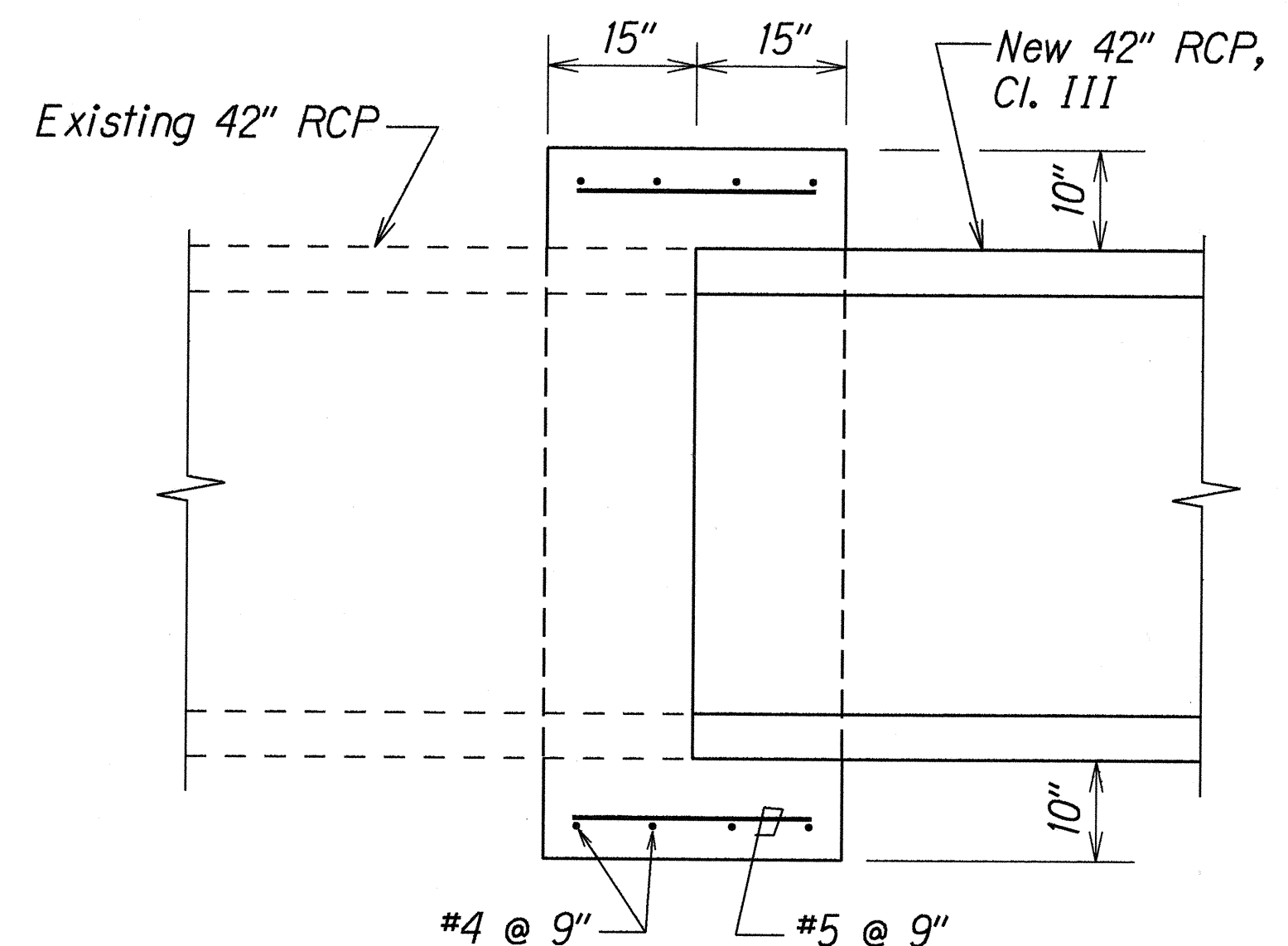
DETAILS OF GUTTER TRANSITION AT TYPE "B" CATCH BASIN



TYPICAL DETAIL OF RESTORATION OF EXISTING TYPE "EG" CURB & GUTTER
STA. 75+15 RT. TO STA. 76+00 RT.
Scale: 1"=1'-0"



ELEVATION



SECTION

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

TYPICAL DETAILS OF REINFORCED CONCRETE COLLAR

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
LIKELIKE HIGHWAY
Embankment Repair/Stabilization
Vic. of Kula Koea Pedestrian Overpass
Project No. 63A-01-94M
Scale: As Shown Date: Aug. 1994
SHEET No. **H4** OF **4** SHEETS

ORIGINAL PLAN	DATE	8/2/94
SURVEY PLOTTED BY	DESIGNED BY	CHIKO KUBO
NOTE BOOK	QUANTITIES BY	CHIKO KUBO
CHECKED BY		