

SUMMARY

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	18	46
6/6/94	Revised Quantities				
DATE	REVISION				

SHEET No. *H1* OF *8* SHEETS

ADD. 18

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____ *
	TRACED BY _____ *
	DESIGNED BY _____ *
	QUANTITIES BY _____ *
N _o _____	CHECKED BY _____

SUMMARY

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	19	46
6/6/94	Revised Quantities				
DATE	REVISION				

SHEET No. *H2* OF *8* SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____ *
	TRACED BY _____ *
	DESIGNED BY _____ *
	QUANTITIES BY _____ *
N. _____	CHECKED BY _____

SUMMARY

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	20	46
12/12/94 6/6/94 <i>Revised Quantities</i> <i>Revised Quantities</i>					
DATE		REVISION			

SHEET No. *H3* OF *8* SHEETS

C.O. ADD. 20

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE <u>6/6/94</u>
NOTE BOOK	DRAWN BY <u>A. Nomura</u>
<u>dh14</u>	TRACED BY _____
<u>447rism03.dgn</u>	DESIGNED BY <u>C. Matsuda, L. Chun</u>
	QUANTITIES BY _____
	CHECKED BY _____

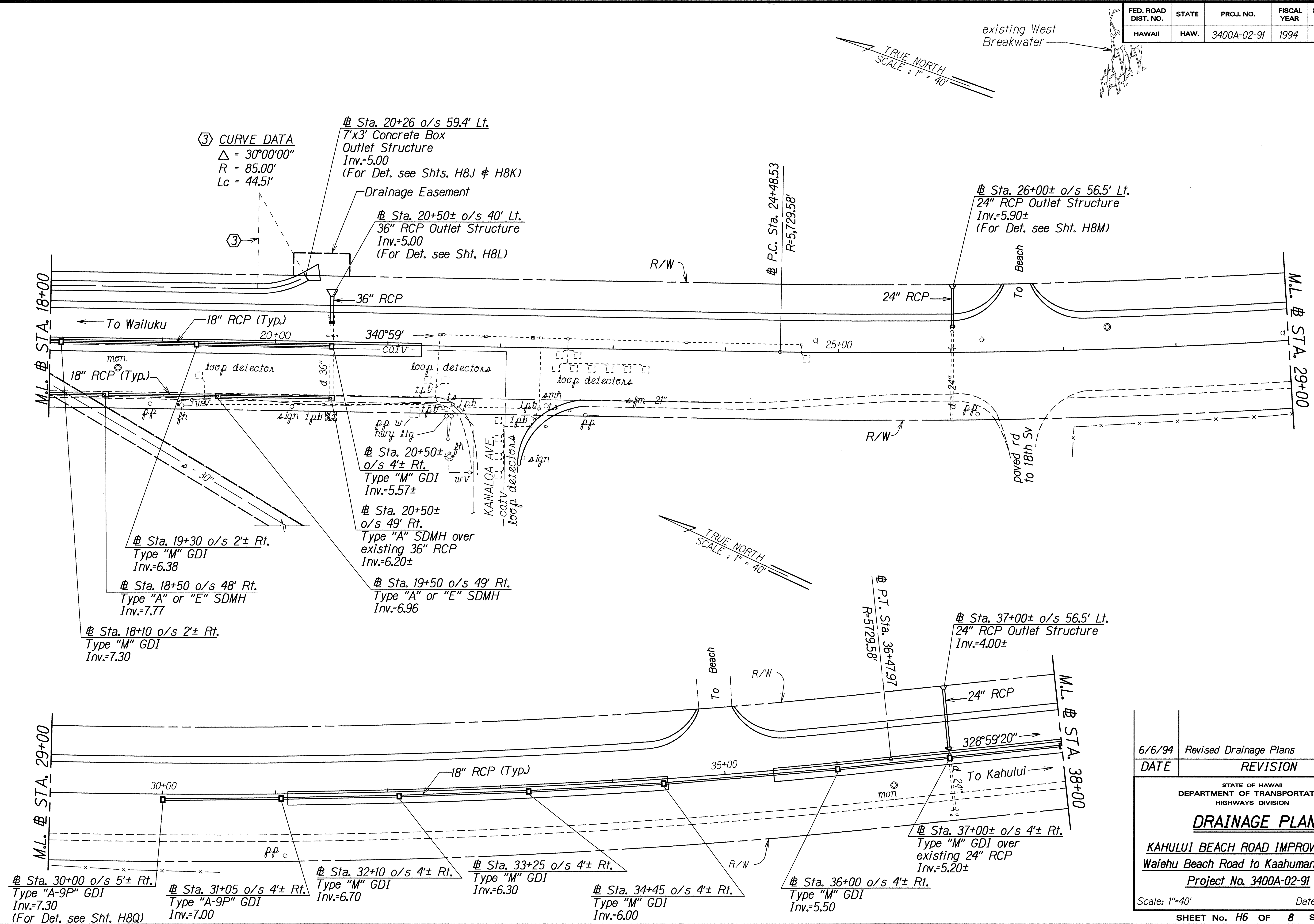
SUMMARY

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	21	46
12/12/94		Revised Quantities			
6/6/94		Revised Quantities			
DATE		REVISION			

SHEET No. *H4* OF *8* SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE <u>6/6/94</u>
NOTE BOOK	DRAWN BY <u>A. Namura</u>
<u>dh31</u>	TRACED BY _____
<u>Kprism04.dgn</u>	DESIGNED BY <u>C. Matsuda, L. Chun</u>
	QUANTITIES BY _____
	CHECKED BY _____

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	23	46



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
DRAWN BY		
DESIGNED BY		
CHECKED BY		
DATE		

6/6/94

Revised Drainage Plans

DATE

REVISION

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

DRAINAGE PLAN

KAHULUI BEACH ROAD IMPROVEMENTS

Waiehu Beach Road to Kaahumanu Avenue

Project No. 3400A-02-91

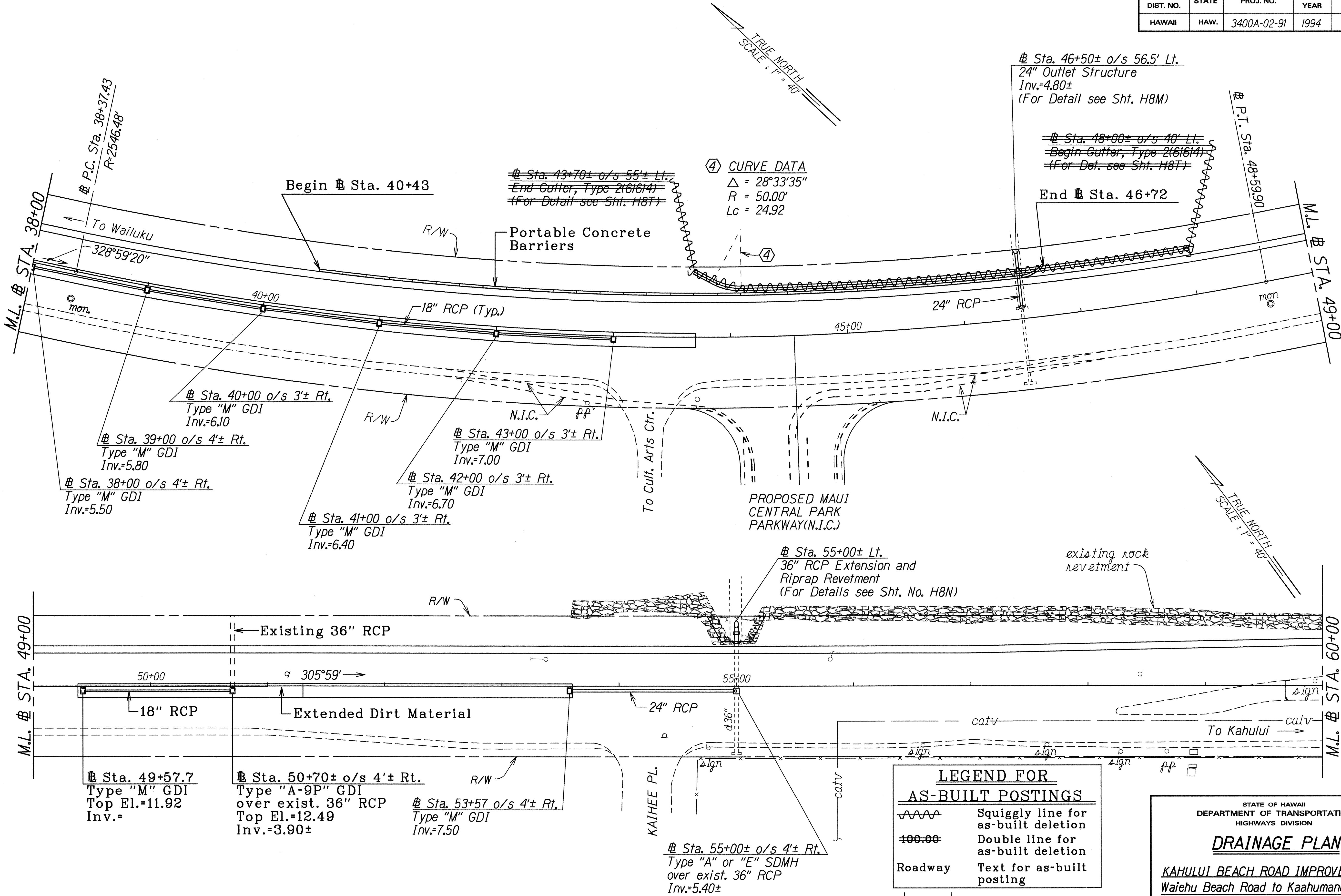
Scale: 1"=40'

Date: May 1994

SHEET No. H6

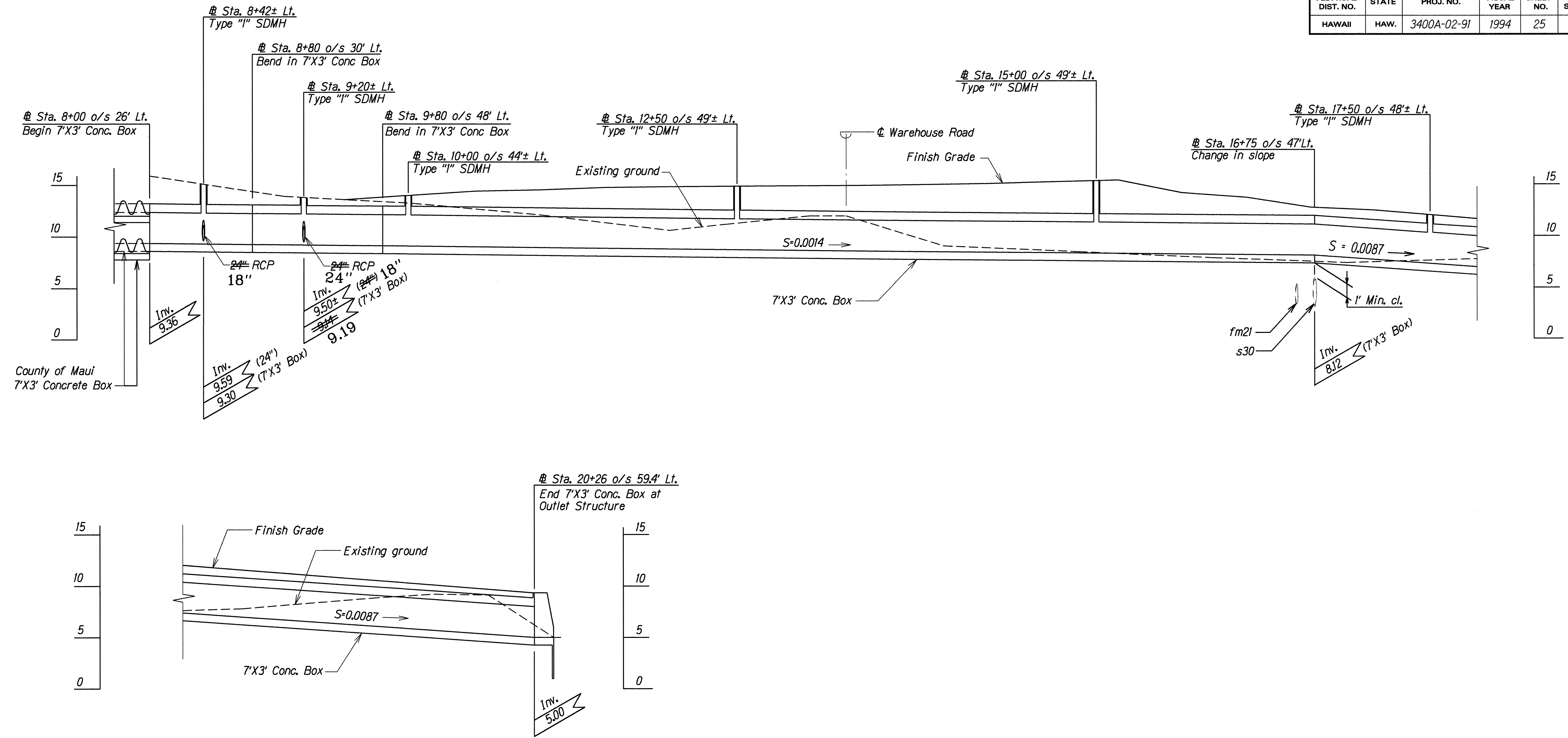
OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	24	46



SURVEY PLOTTED BY	DATE
DRAWN BY	6/6/94
CHECKED BY	
NOTES	
ORIGINAL PLAN	
DATE	
NOTES	
ORIGINAL PLAN	
DATE	
NOTES	
ORIGINAL PLAN	
DATE	
NOTES	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	25	46



PROFILE OF 7'X3' CONCRETE BOX CULVERT

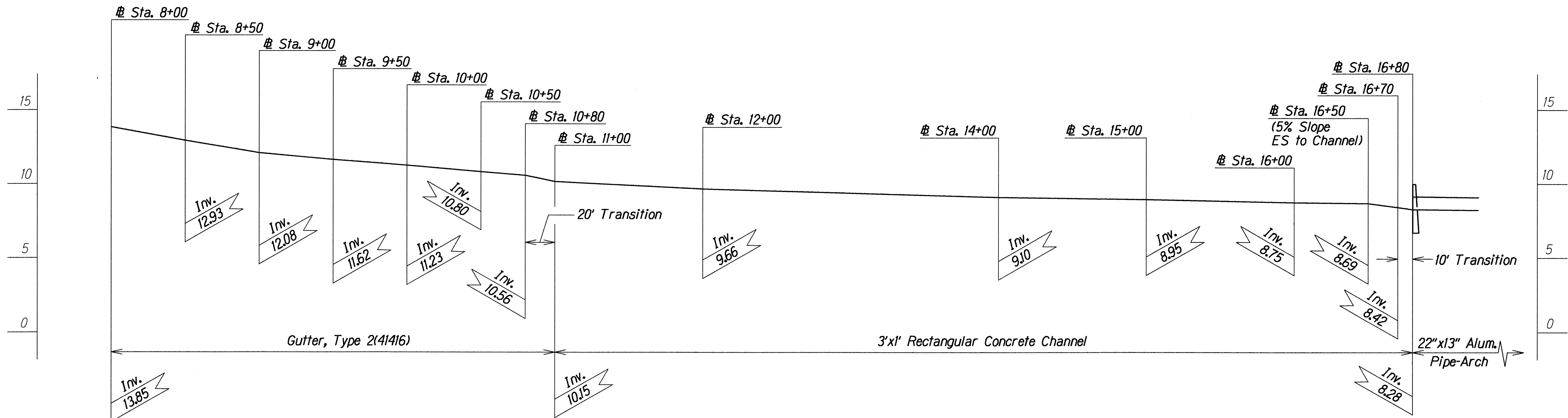
Scale: Horiz. 1" = 40'
Vert. 1" = 5'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED BOOK	DRAWN BY	6/6/94
NOTED BOOK	TRACED BY	
NOTED BOOK	CHECKED BY	
NOTED BOOK	QUANTITIES BY	
NOTED BOOK	CHECKED BY	

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DRAINAGE PROFILES	
KAHULUI BEACH ROAD IMPROVEMENTS Waiehu Beach Road to Kaahumanu Avenue Project No. 3400A-02-91	
Scale: As Shown	Date: May 1994
SHEET No. H8 OF 8 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	25S-1	46



**PROFILE OF GUTTER, TYPE 2(41416) AND
3'X1' RECTANGULAR CONCRETE CHANNEL**

Scale: Horiz. 1"=40'
Vert. 1"=4'

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

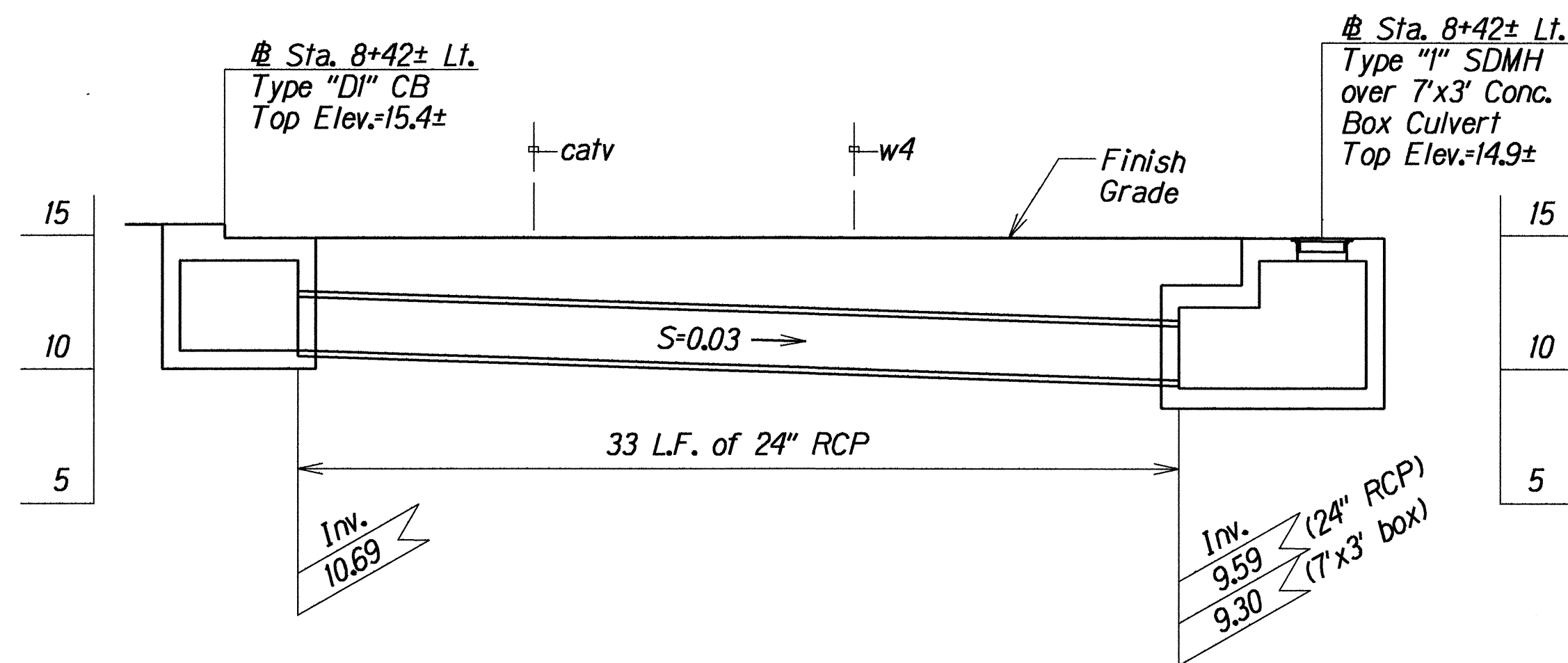
16/05/94

6/6/94	Added Drainage Plan Sheet
DATE	REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
DRAINAGE PROFILE
KAHULUI BEACH ROAD IMPROVEMENTS
Waiehu Beach Road to Kaahumanu Avenue
Project No. 3400A-02-91
Scale: As Shown Date: May 1994
SHEET No. H8A OF 8 SHEETS

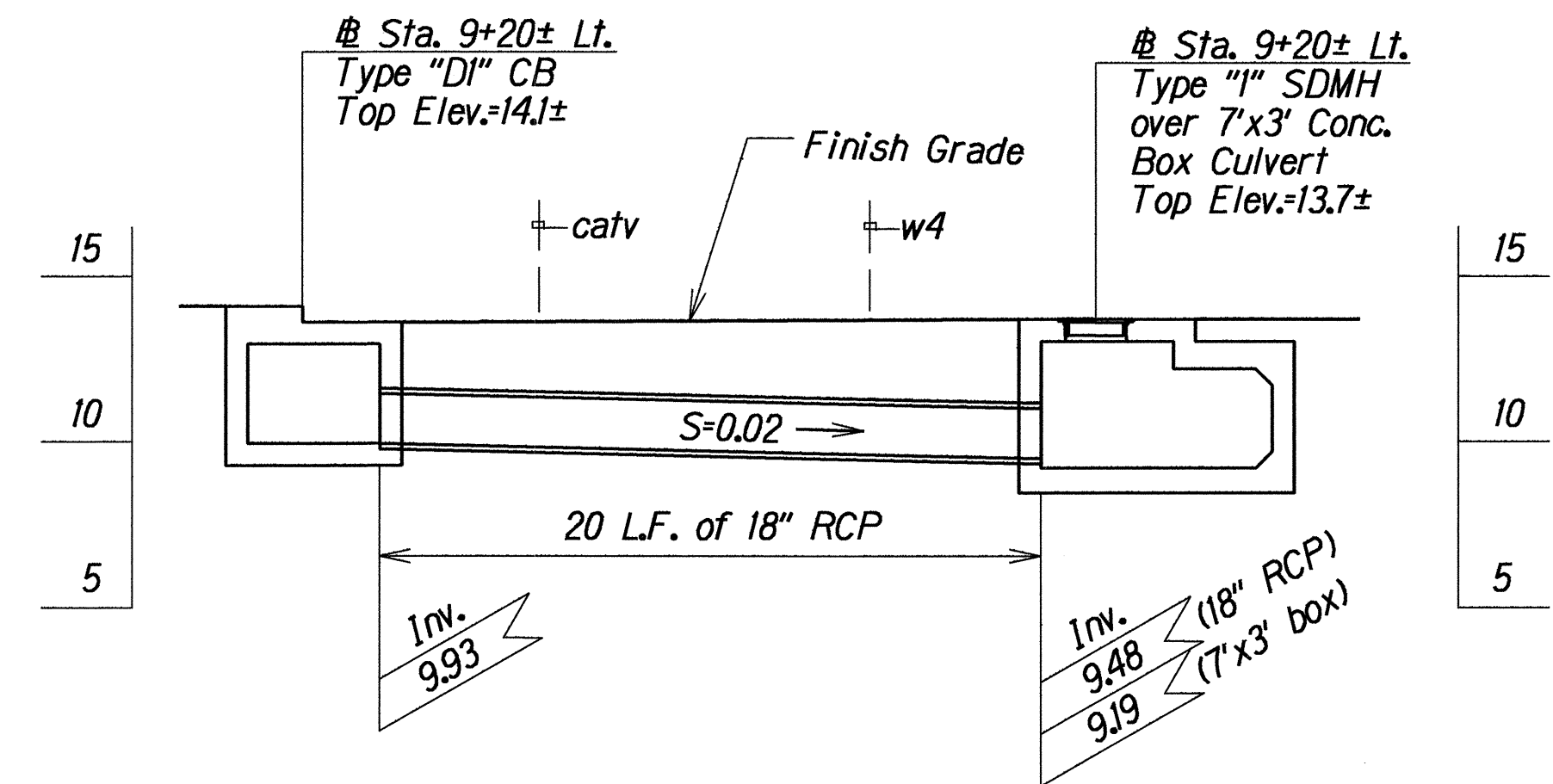
ADD. 25S-1

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	25S-2	46



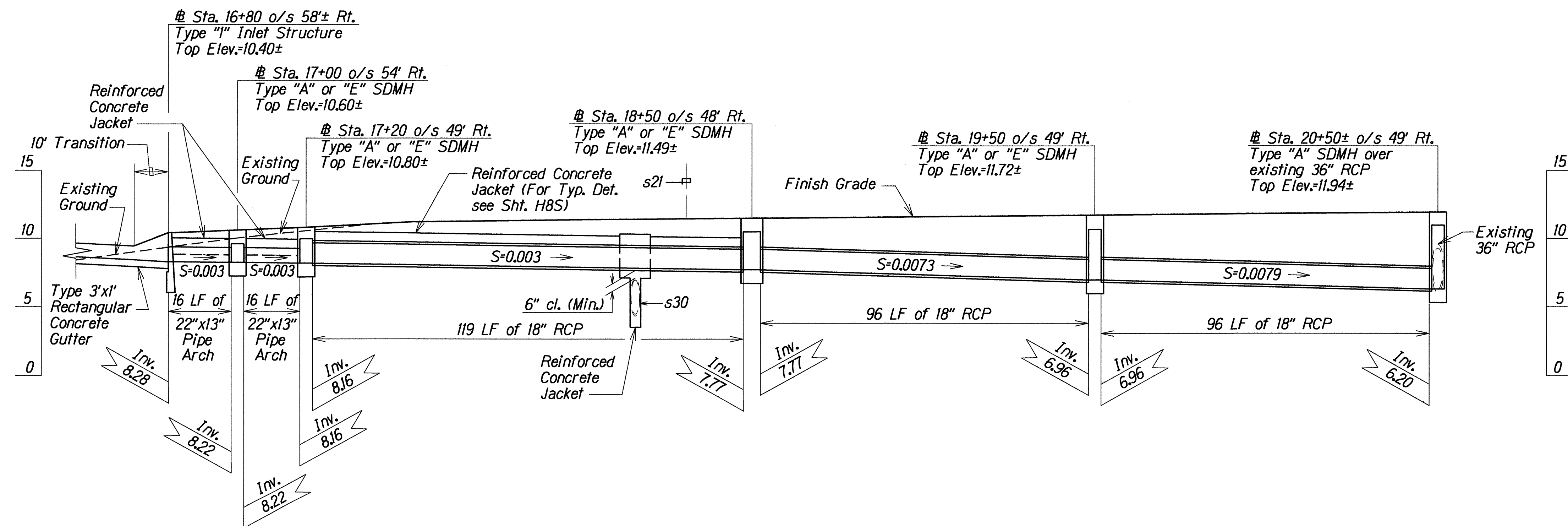
PROFILE OF 24" RCP AT STA. 8+42±

Scale: 1" = 5'



PROFILE OF 18" RCP AT STA. 9+20±

Scale: 1" = 5'



**PROFILE OF 22"x13" PIPE-ARCH AND 18" RCP
FROM STA. 16+80 RT. TO STA. 20+50± RT.**

Scale: Horiz. 1" = 20'
Vert. 1" = 5'

6/6/94	Added Drainage Plan Sheet
DATE	REVISION

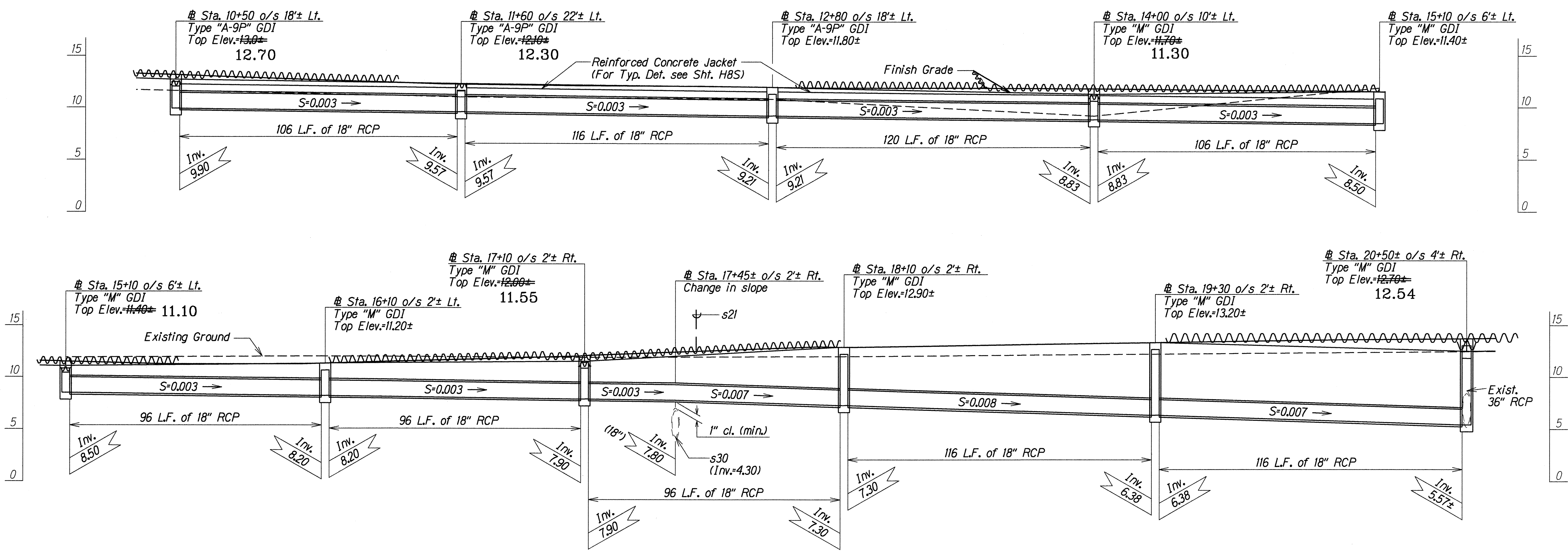
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
DRAINAGE PROFILES
KAHULUI BEACH ROAD IMPROVEMENTS Waiehu Beach Road to Kaahumanu Avenue Project No. 3400A-02-91
Scale: As Shown Date: May 1994
SHEET No. H8B OF 8 SHEETS

ADD. 25S-2

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

16b7rhp02.dgn

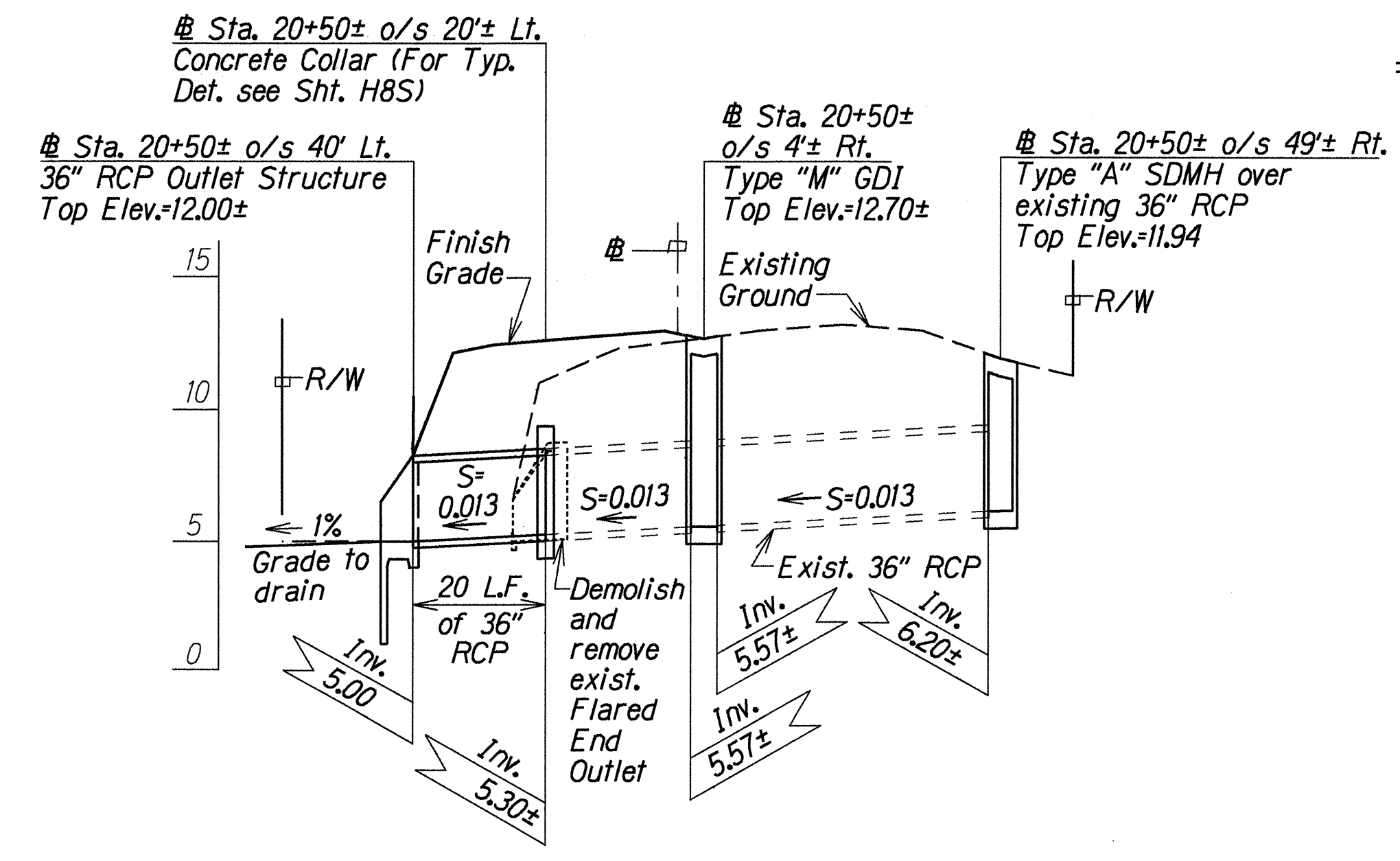
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	25S-3	46



**PROFILE OF 18" RCP FROM STA. 10+50 LT.
TO STA. 20+50± RT. (MEDIAN)**

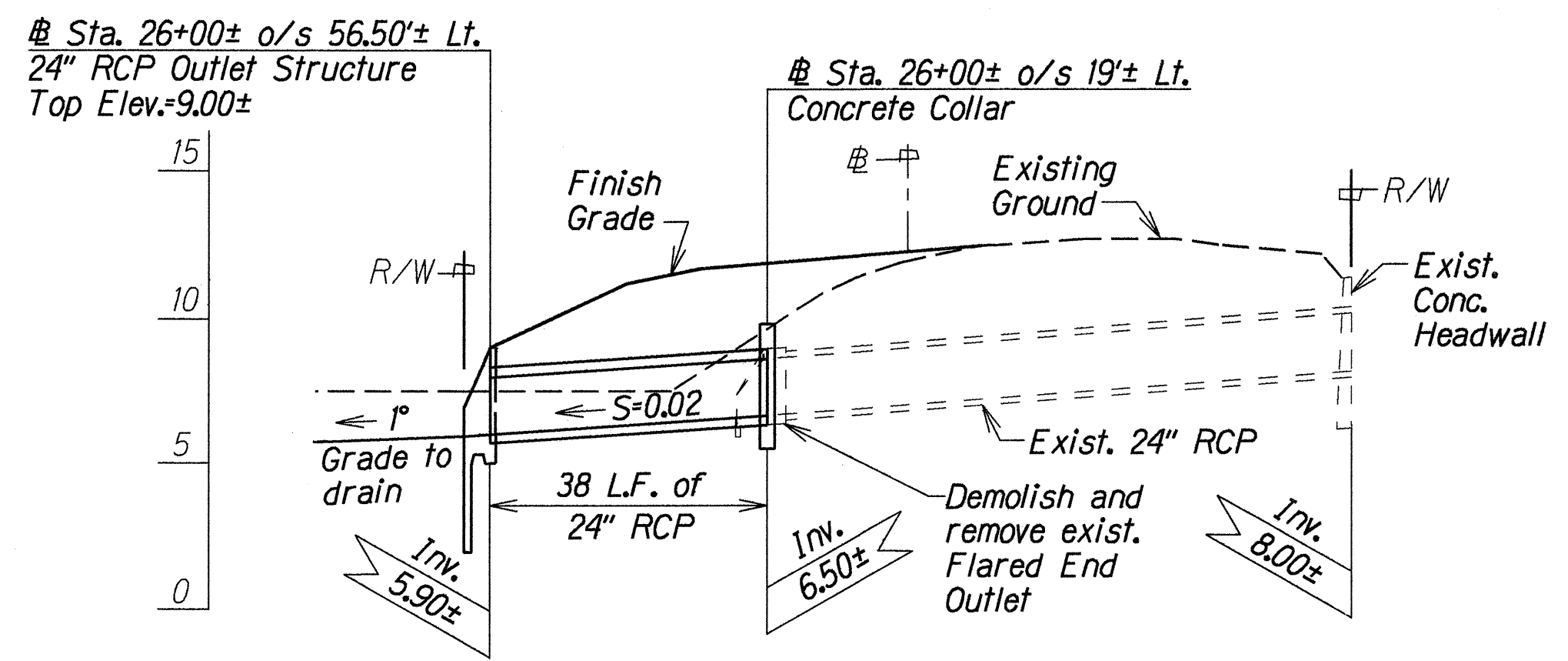
Scale: Horiz. 1"=20'
Vert. 1"=5'

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting



PROFILE OF 36" RCP AT STA. 20+50±

Scale: Horiz. 1"=20'
Vert. 1"=5'



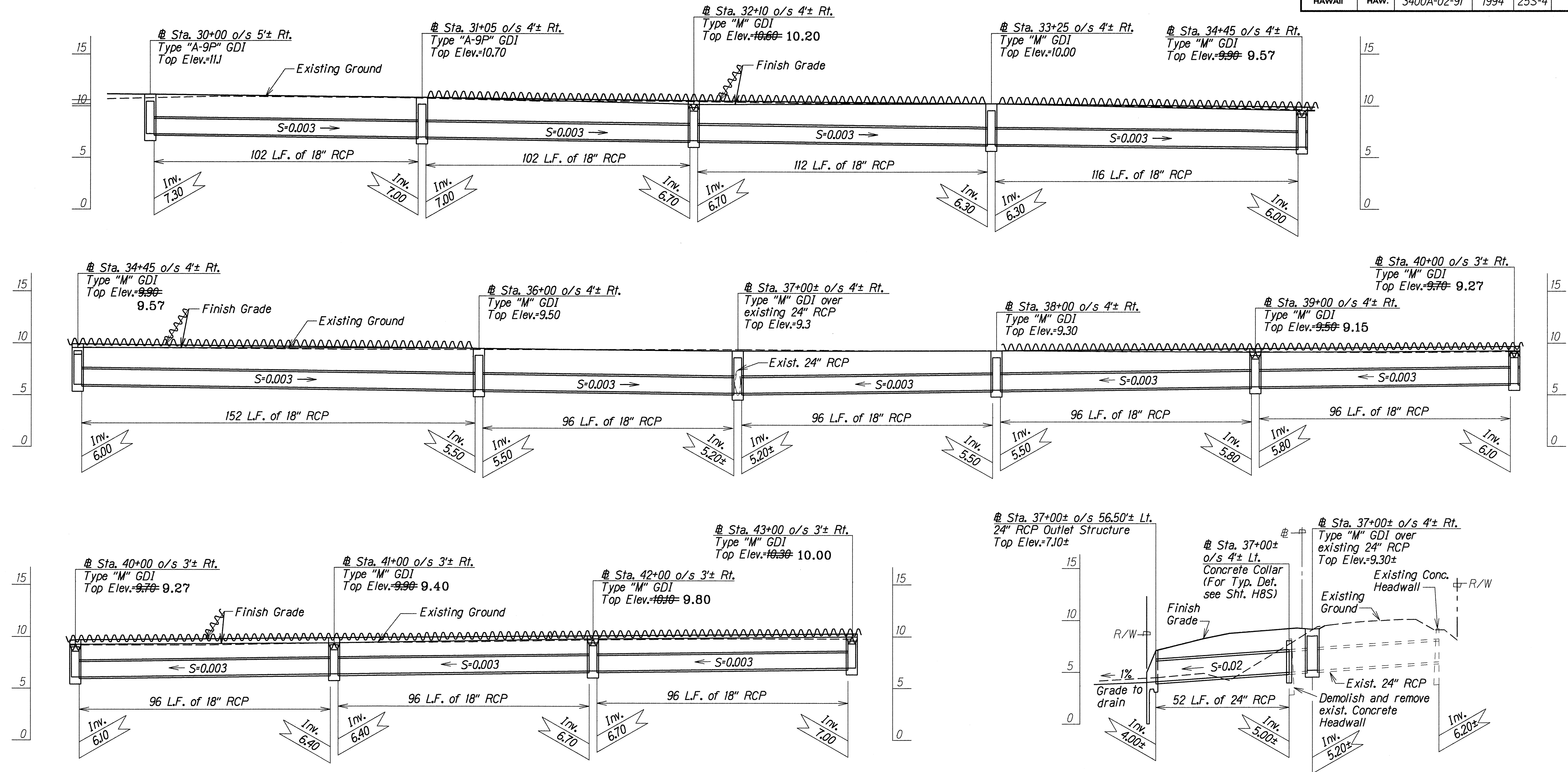
PROFILE OF 24" RCP AT STA. 26+00±

Scale: Horiz. 1"=20'
Vert. 1"=5'

6/6/94	Added Drainage Plan Sheet
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION DRAINAGE PROFILES KAHULUI BEACH ROAD IMPROVEMENTS Waiehu Beach Road to Kaahumanu Avenue Project No. 3400A-02-91 Scale: As Shown Date: May 1994 SHEET No. H8C OF 8 SHEETS	

SURVEY PLOTTED BY	DATE
DRAWN BY A. MAMULA	MAY 1994
CHECKED BY K. SUGIHARA	
QUANTITIES BY	
DESIGNED BY	
ORIGINAL PLAN	
NOTE BOOK	
dh1al	
4/27/94	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	25S-4	46



PROFILE OF 18" RCP FROM # STA. 30+00 RT. TO # STA. 43+00± RT. (MEDIAN)

Scale: Horiz. 1"=20'
Vert. 1"=5'

PROFILE OF 24" RCP AT # STA. 37+00±

Scale: Horiz. 1"=20'
Vert. 1"=5'

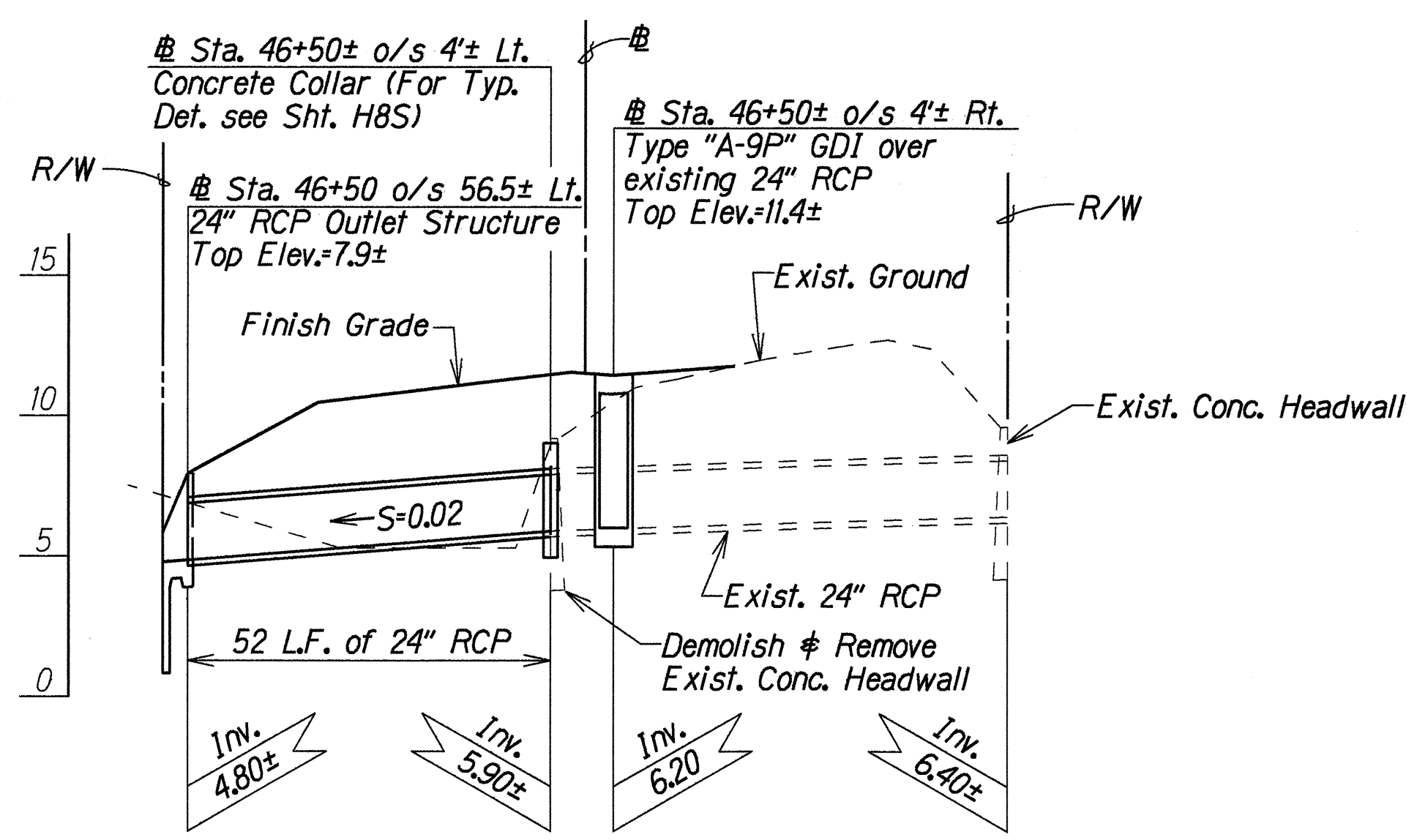
SURVEY PLOTTED BY	DATE
DRAWN BY A. Nomura	May 1994
CHECKED BY K. Saitohara	
NOTES	
QUANTITIES BY	
CHECKED BY	

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

6/6/94	Added Drainage Plan Sheet
DATE	REVISION

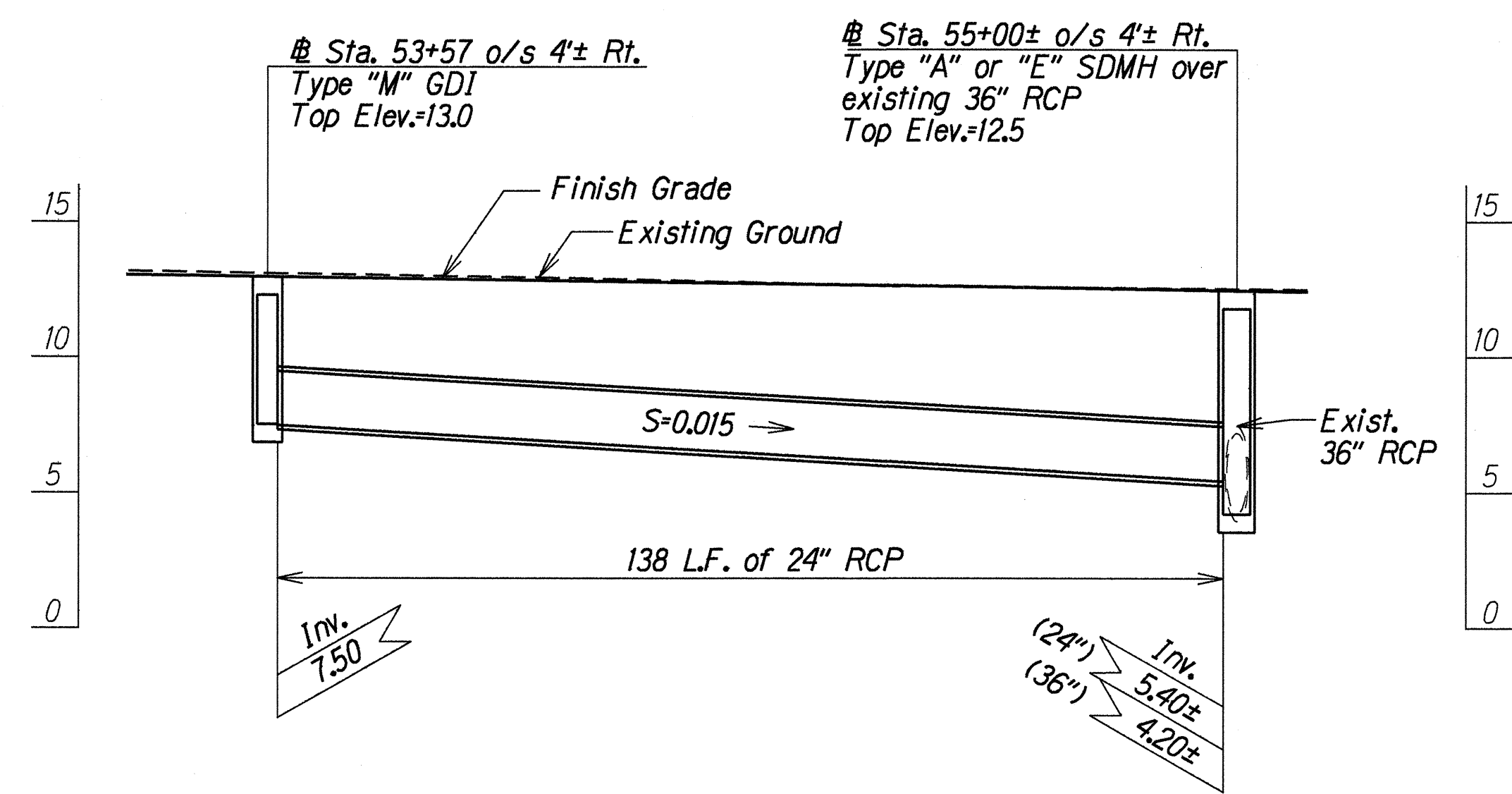
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DRAINAGE PROFILES	
KAHULUI BEACH ROAD IMPROVEMENTS Waiehu Beach Road to Kaahumanu Avenue Project No. 3400A-02-91	
Scale: As Shown	Date: May 1994
SHEET No. H8D OF 8 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	25S-5	46



PROFILE OF 24" RCP AT STA. 46+50±

Scale: Horiz. 1"=20'
Vert. 1"=5'



PROFILE OF 24" RCP
FROM STA. 53+57 RT.
TO STA. 55+00± RT. (MEDIAN)

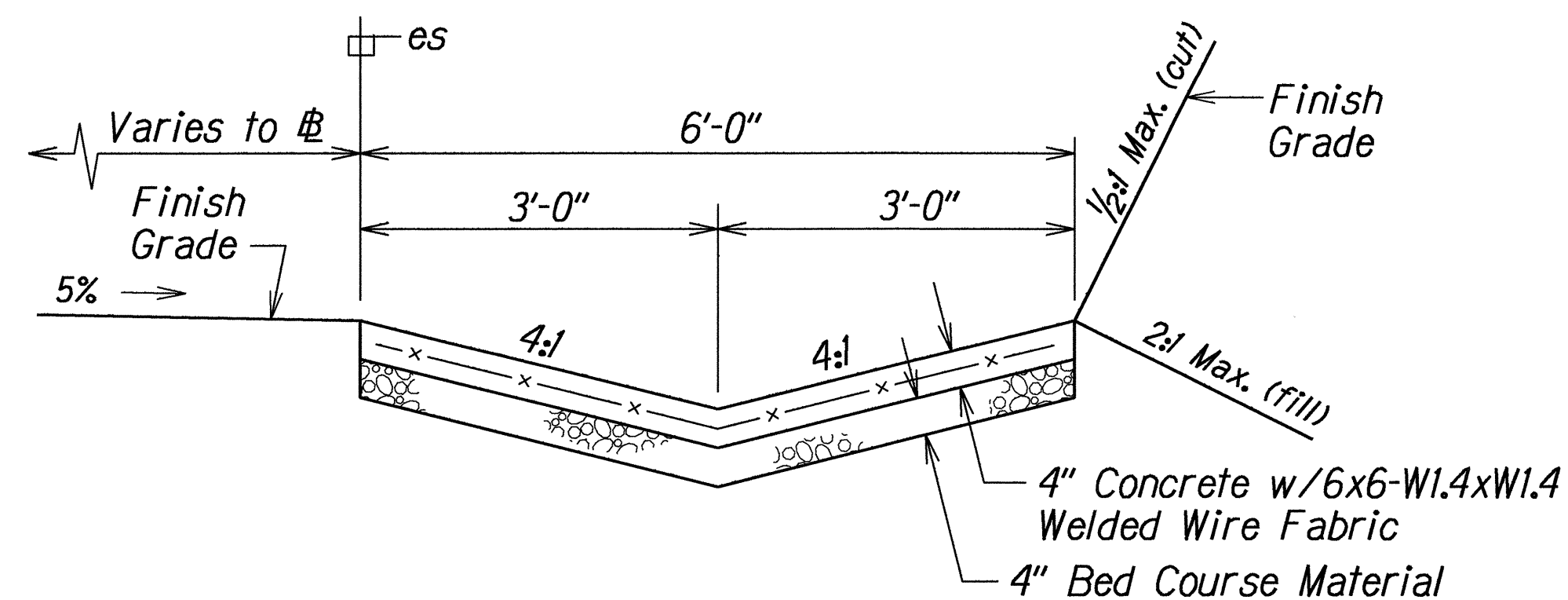
Scale: Horiz. 1"=20'
Vert. 1"=5'

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
N.	

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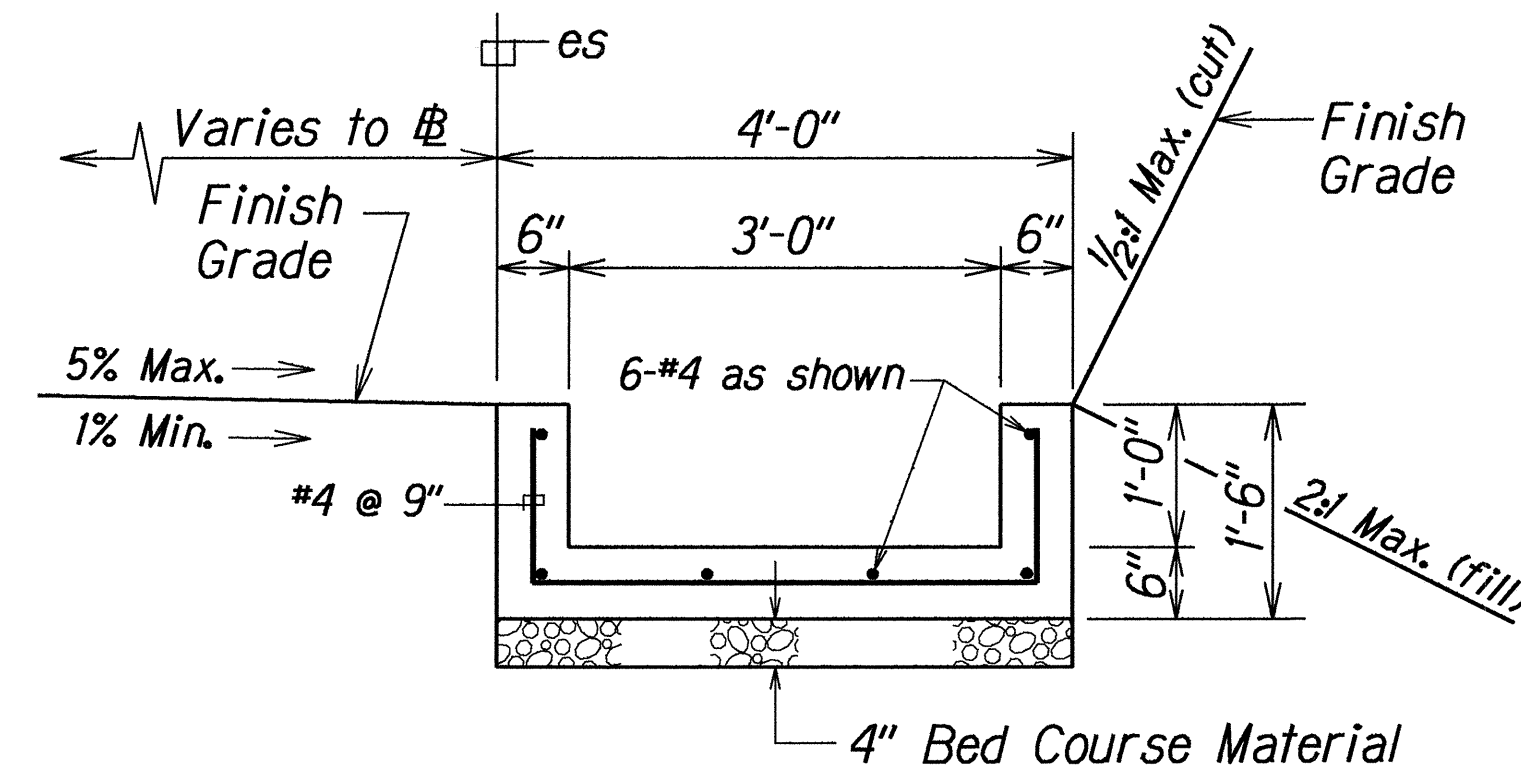
12/12/94	Revised profile of 24" RCP at Sta. 55+00.
6/6/94	Added Drainage Plan Sheet
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>DRAINAGE PROFILES</u> <u>KAHULUI BEACH ROAD IMPROVEMENTS</u> <u>Waiehu Beach Road to Kaahumanu Avenue</u> <u>Project No. 3400A-02-91</u> Scale: As Shown Date: May 1994 SHEET No. H8E OF 8 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	25S-6	46



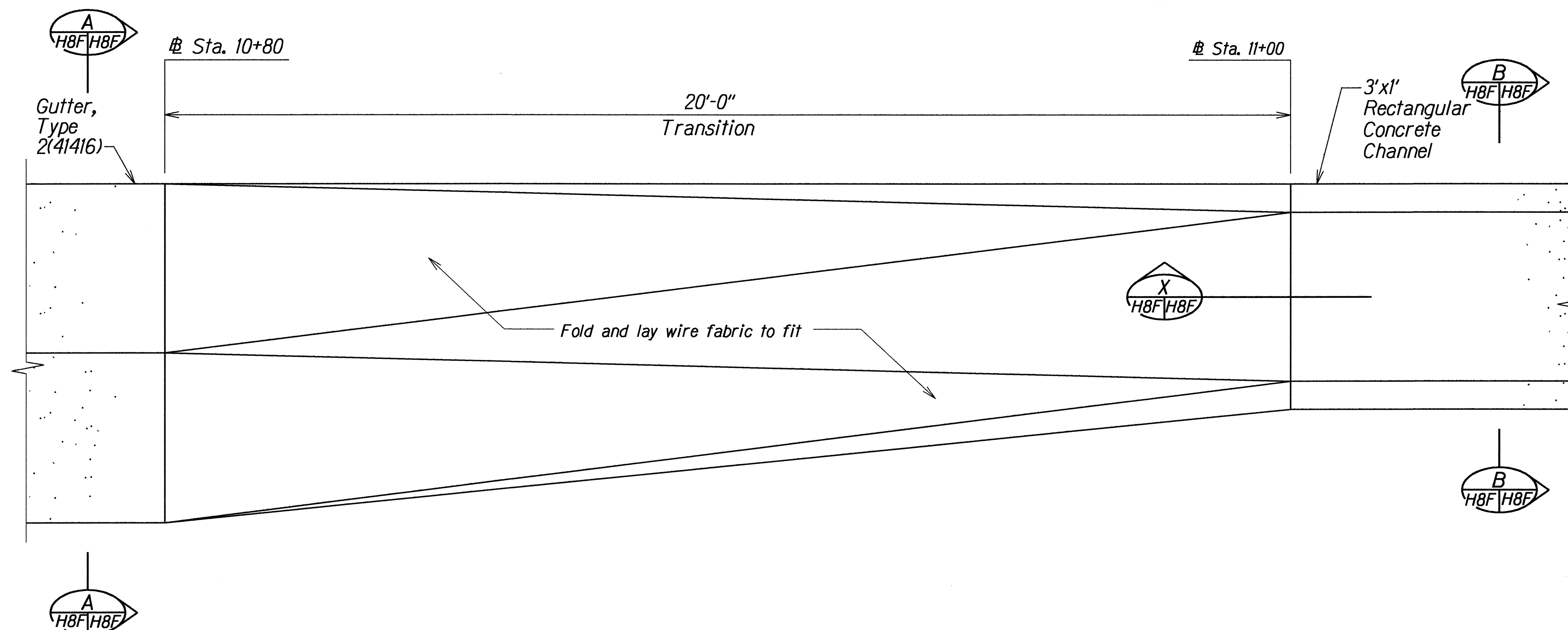
SECTION A
H8F/H8F

DETAIL OF GUTTER, TYPE (2)41416

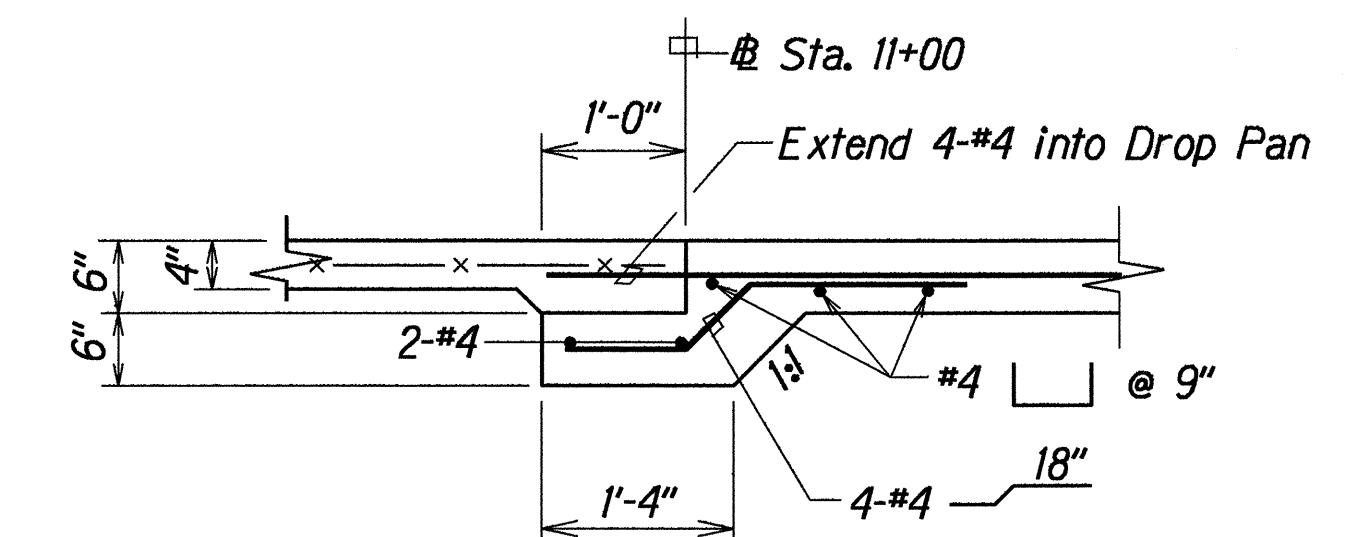


SECTION B
H8F/H8F

DETAIL OF 3'x1' RECTANGULAR
CONCRETE CHANNEL



PLAN OF GUTTER TRANSITION AT STA. 10+80 TO STA. 11+00



SECTION X
H8F/H8F

DETAILS OF GUTTER AND CHANNEL AT STA. 8+00 TO STA. 16+80

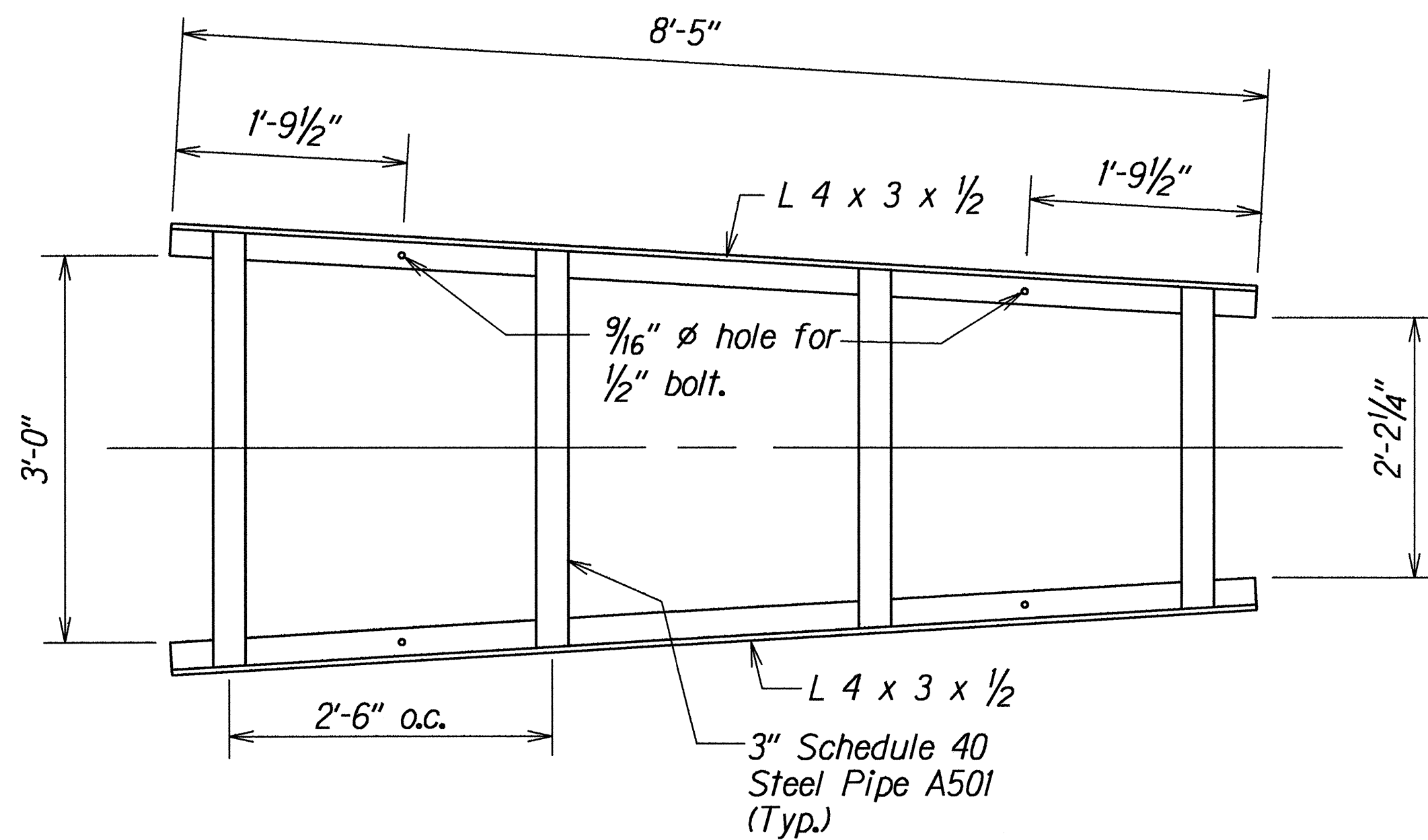
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

1kbrnd104.dgn

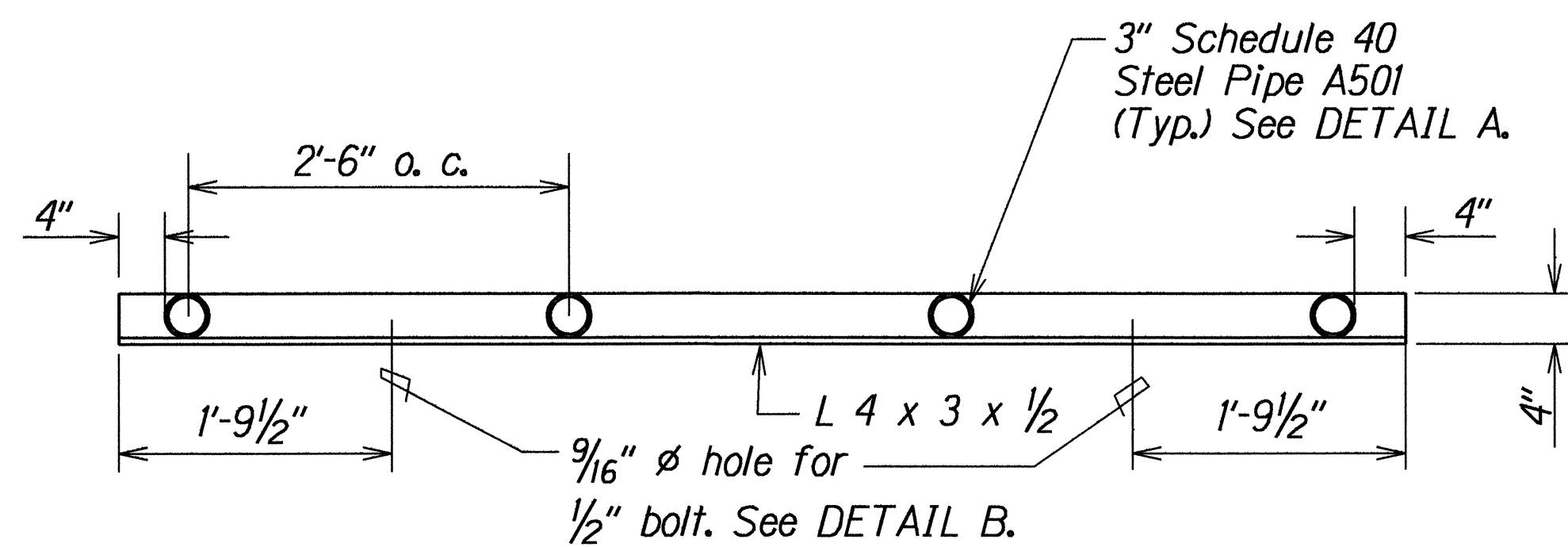
6/6/94	Added Drainage Plan Sheet
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DRAINAGE DETAILS	
KAHULUI BEACH ROAD IMPROVEMENTS Waiehu Beach Road to Kaahumanu Avenue Project No. 3400A-02-91	
Scale: 3/4"=1'-0"	Date: Apr. 1994
SHEET No. H8F OF 8 SHEETS	

ADD. 25S-6

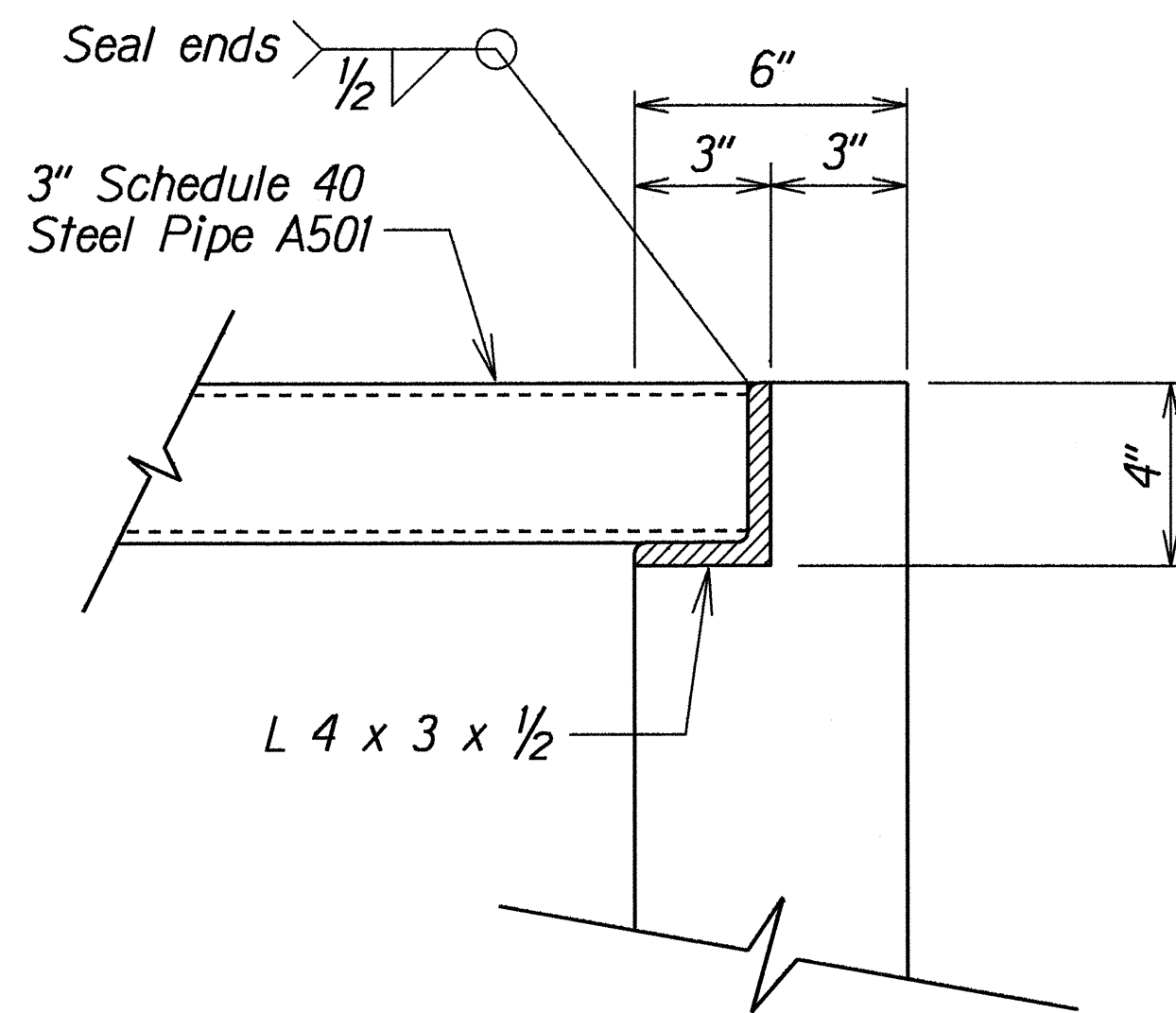
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	25S-8	46



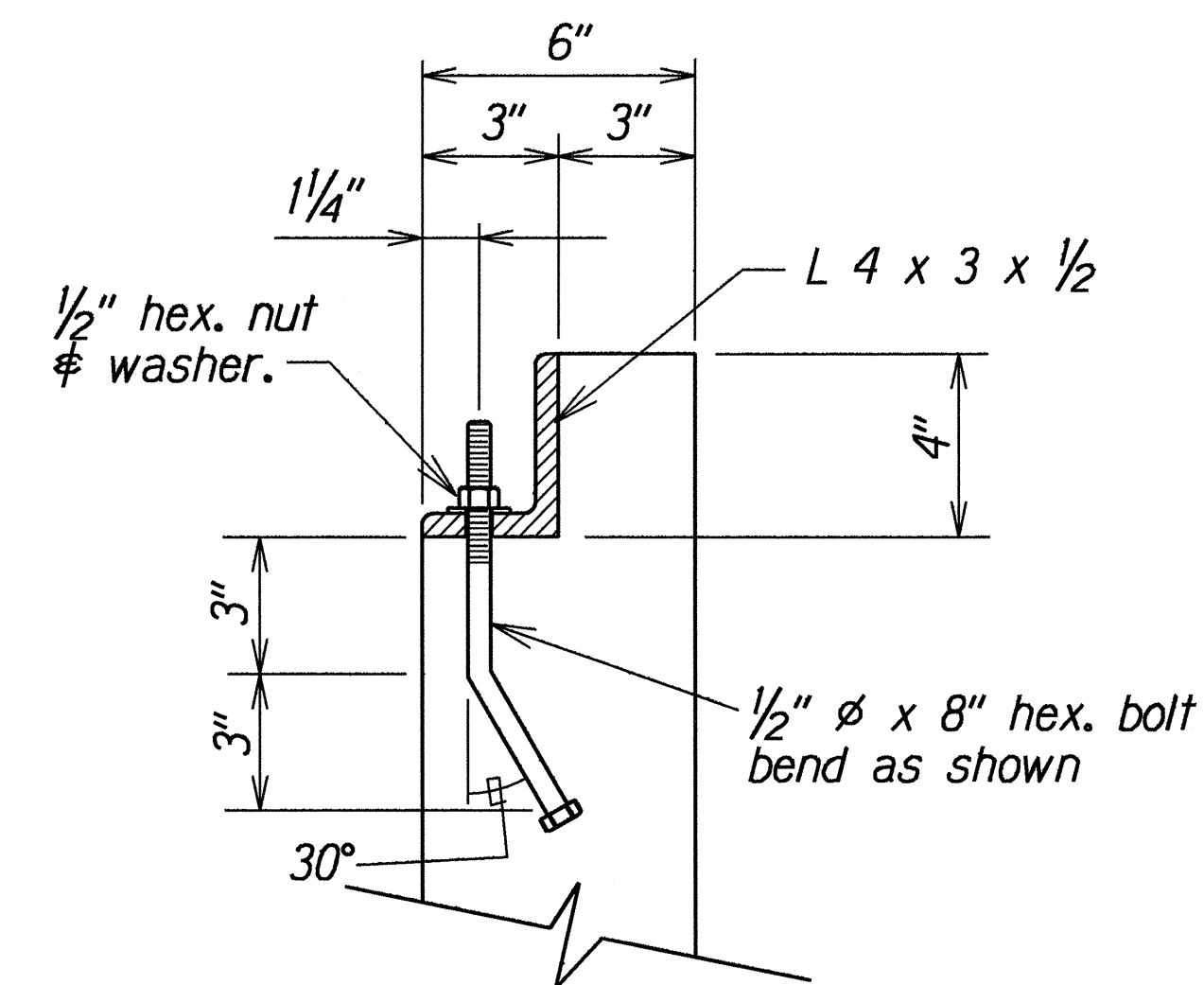
PLAN



SECTION



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



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

NOTE:
3-Inch Pipe Grate shall not be paid for separately but shall be considered incidental to Type "I" Inlet Structure.

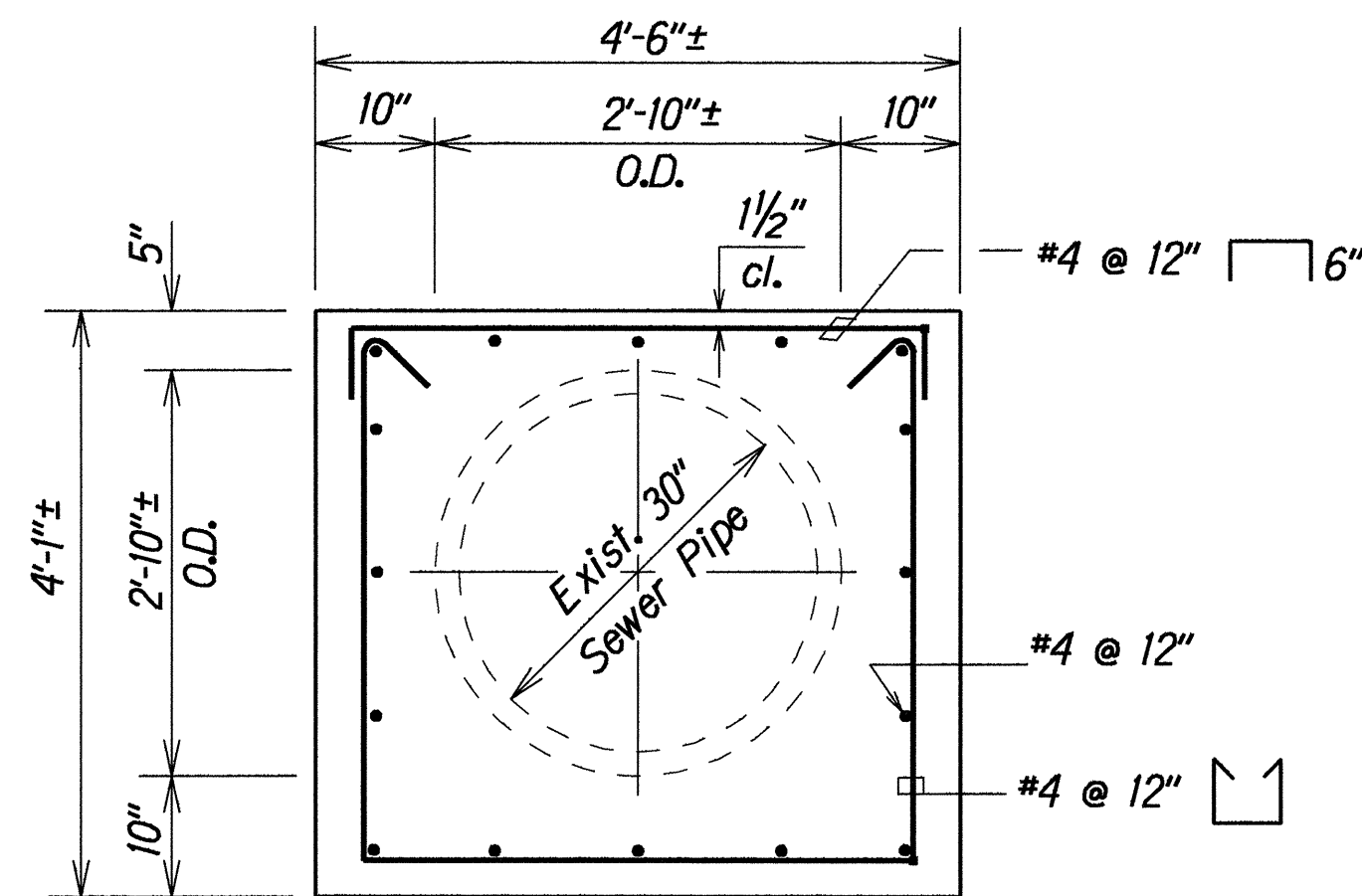
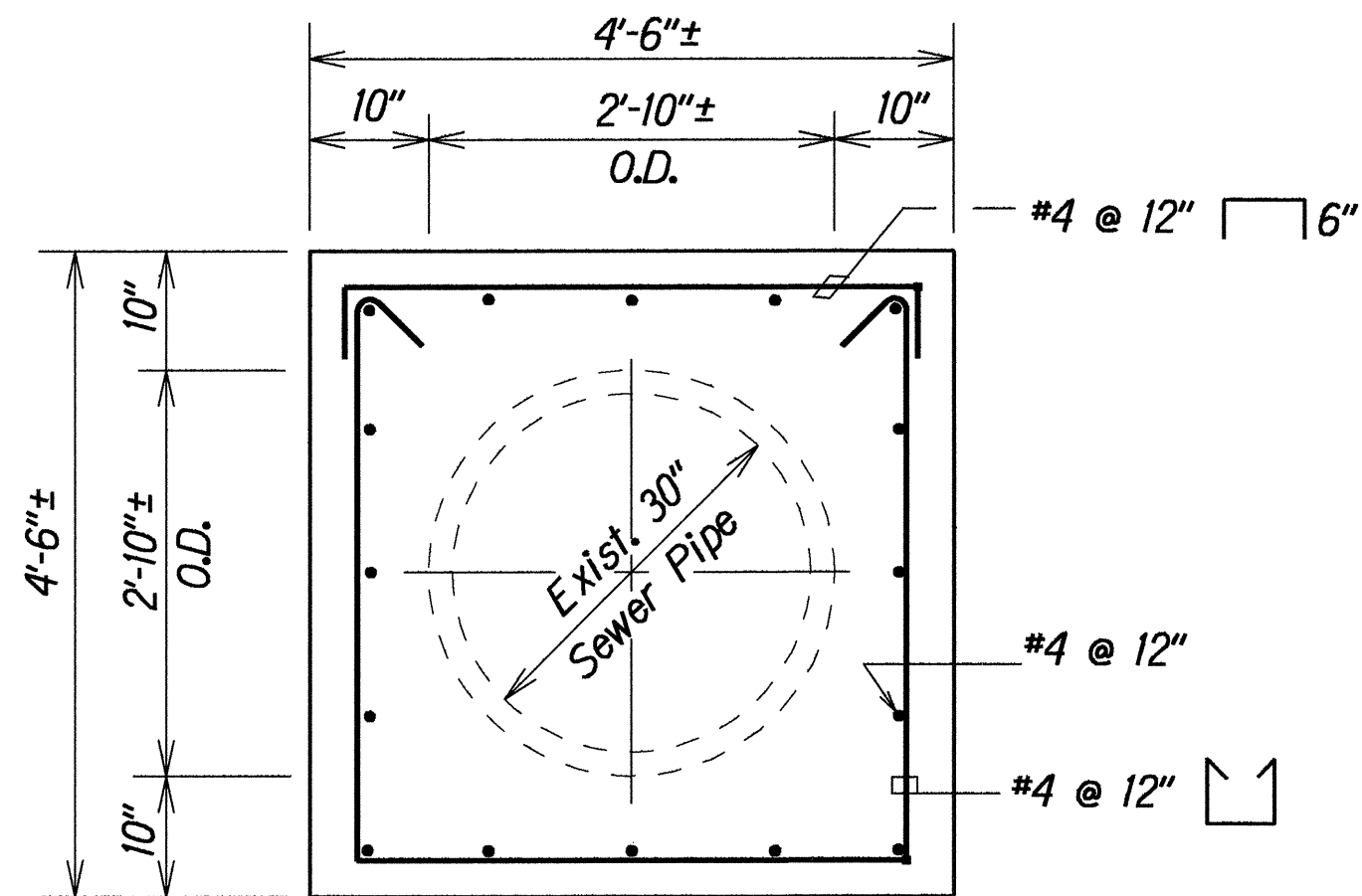
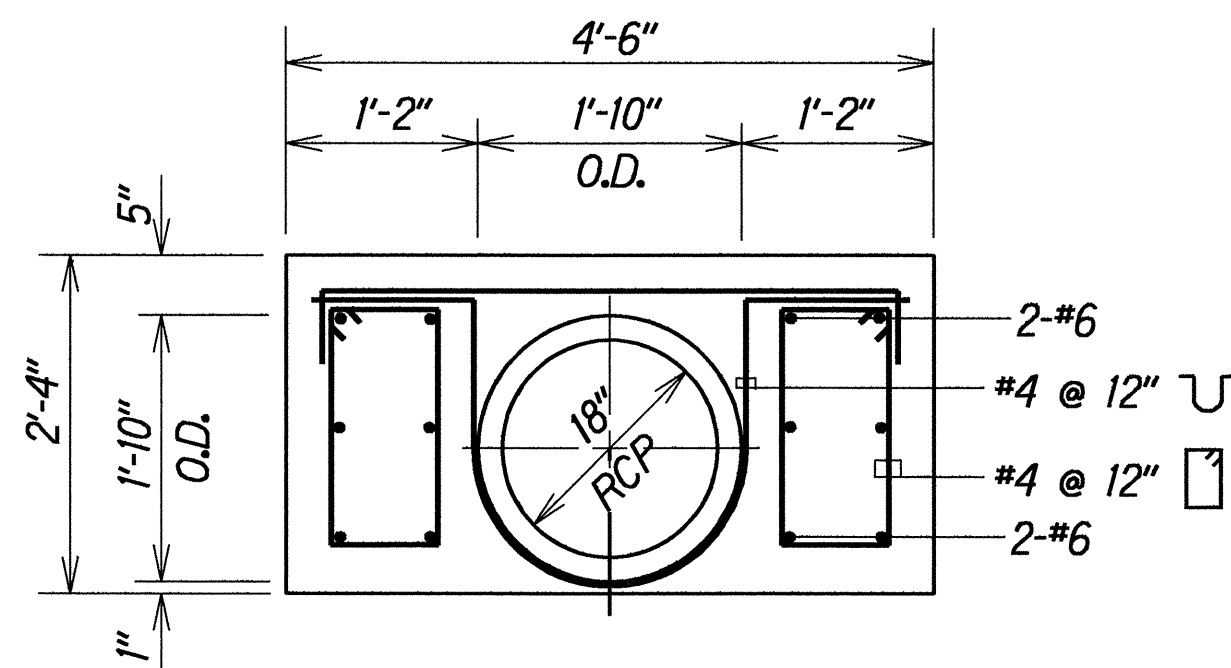
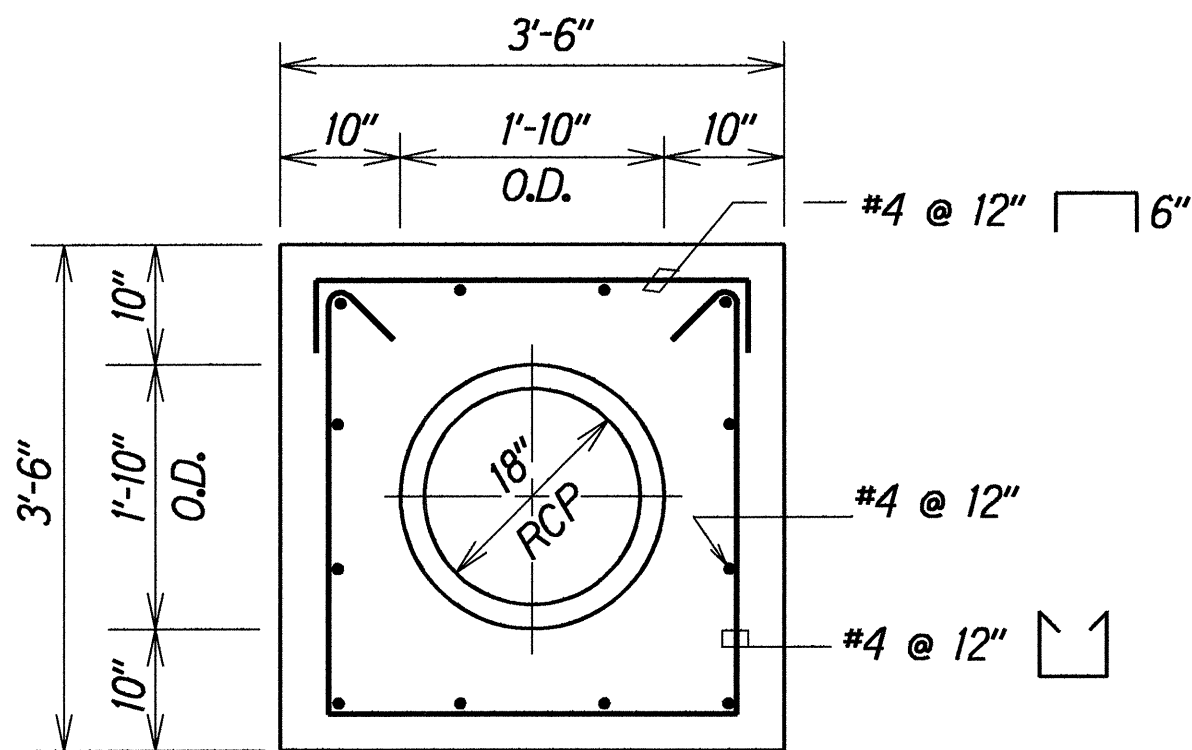
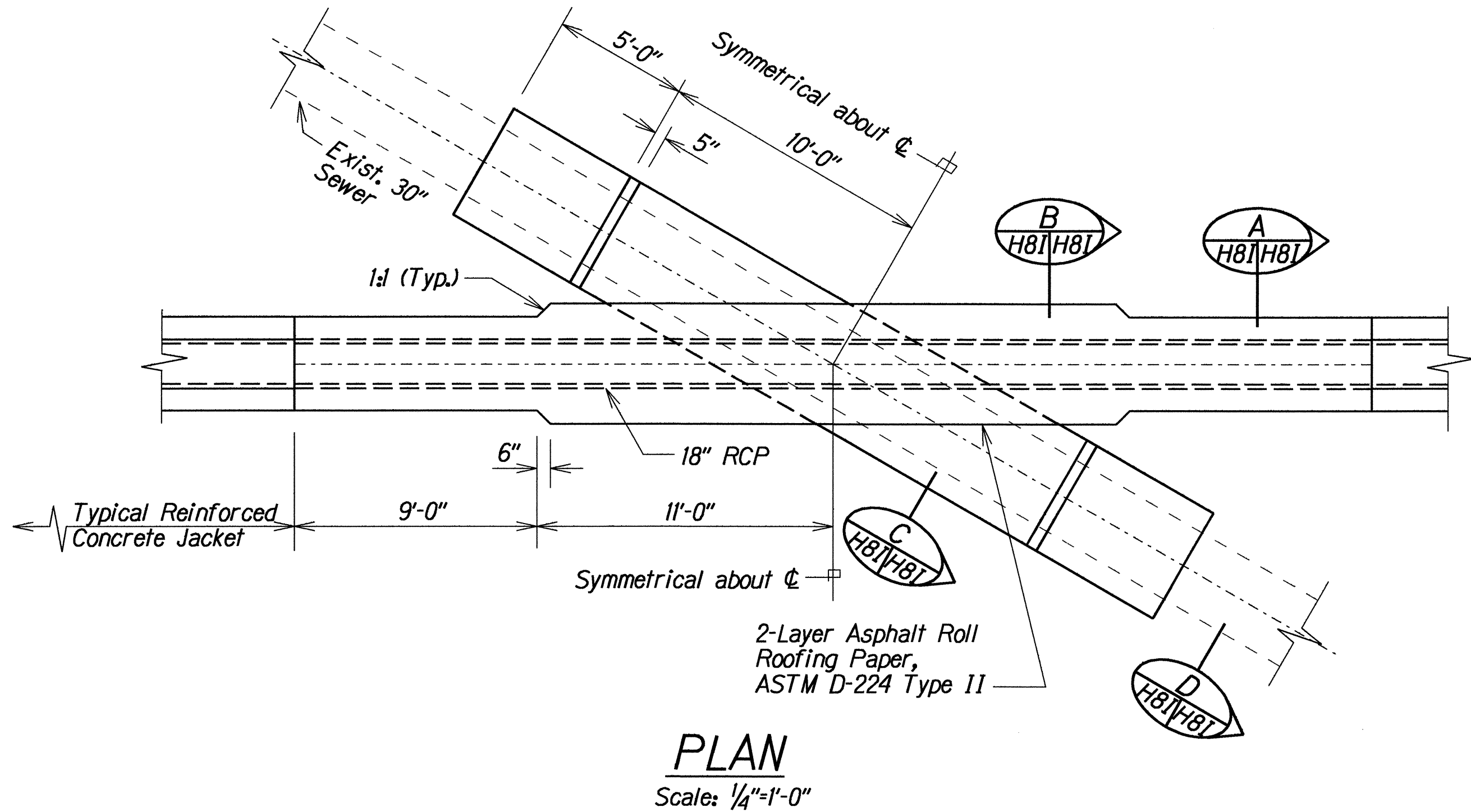
DETAIL OF 3 INCH PIPE GRATE

Scale: 1"=1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	6/23/94
CHIEF	TRACED BY	
QUANTITIES BY		
CHECKED BY		

6/6/94	Added Drainage Plan Sheet.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>DRAINAGE DETAILS</u> <u>KAHULUI BEACH ROAD IMPROVEMENTS</u> <u>Waiehu Beach Road to Kaahumanu Avenue</u> <u>Project No. 3400A-02-91</u> Scale: As Shown Date: Jun, 1994	
SHEET No. H8H OF 8 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	255-9	46



DETAILS OF REINFORCED CONCRETE JACKET OVER EXISTING S30

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

1/kbrtdt12.dgn

6/6/94	Added Drainage Plan Sheet
DATE	REVISION

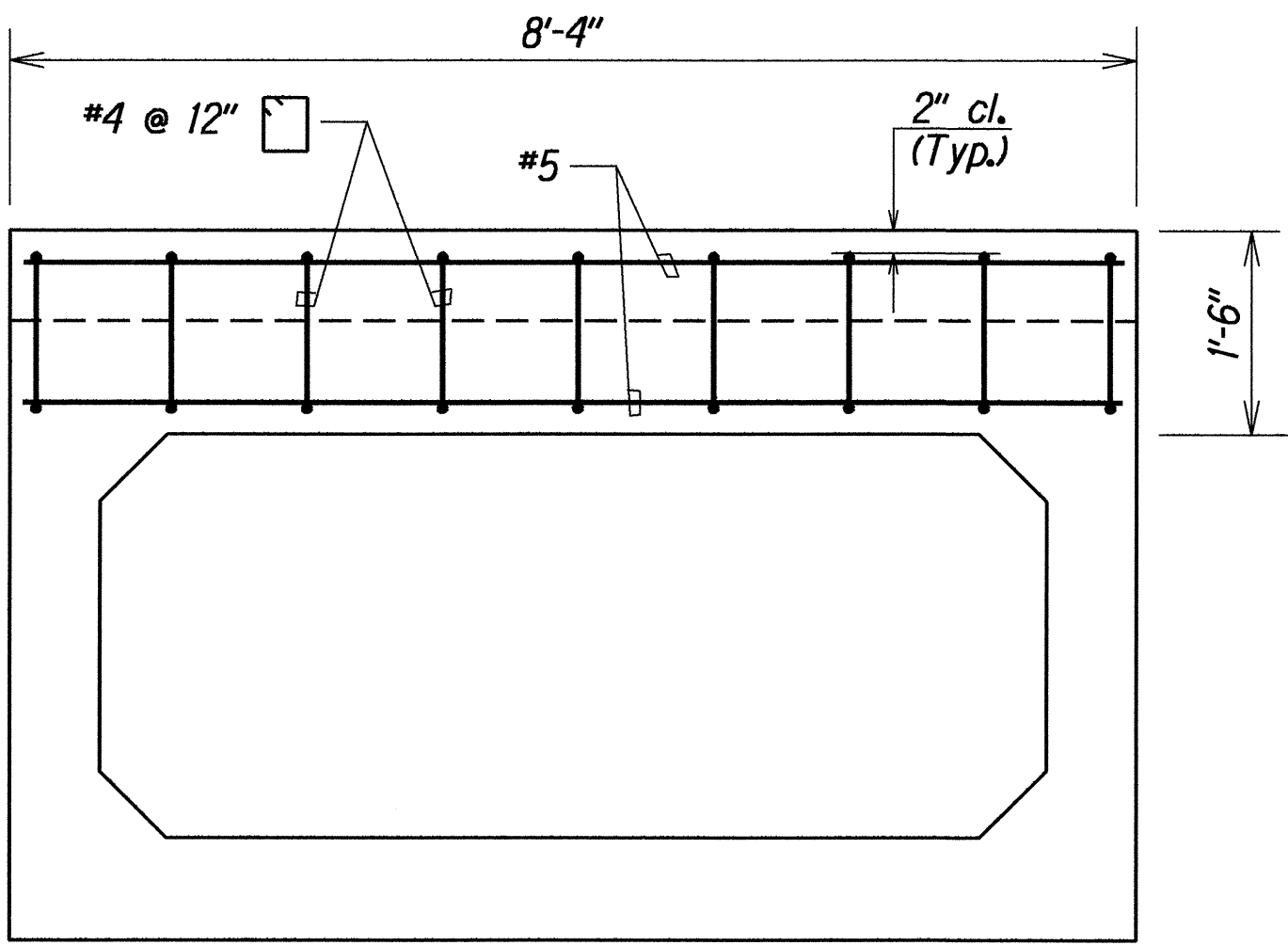
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
KAHULUI BEACH ROAD IMPROVEMENTS
Waiehu Beach Road to Kaahumanu Avenue
Project No. 3400A-02-91

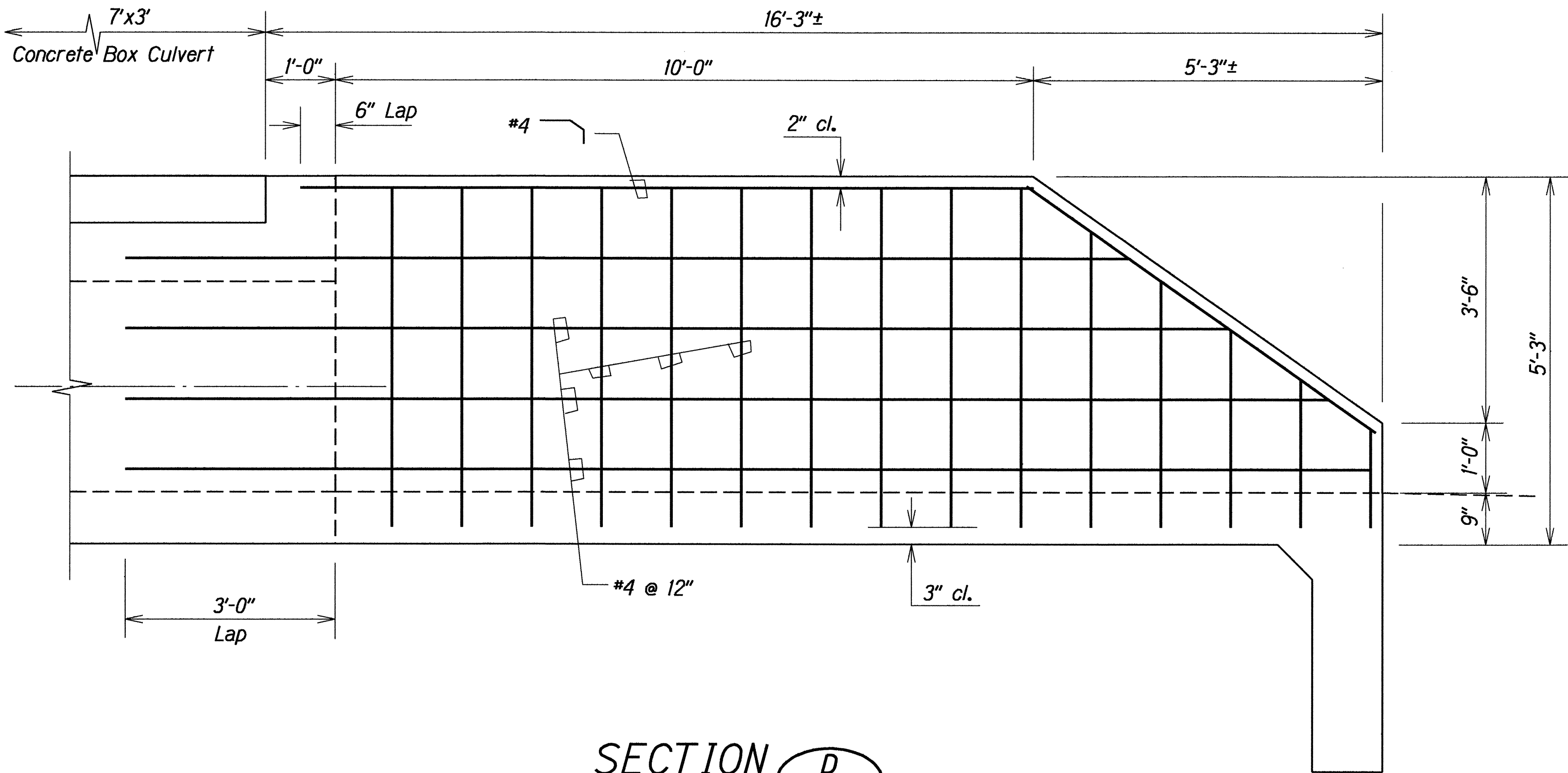
Scale: As Shown
Date: May 1994

SHEET No. **H81** OF **8** SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	25S-11	46



SECTION C
H8J/H8K



SECTION D
H8J/H8K

DETAIL OF OUTLET STRUCTURE AT STA. 20+26 o/s 59.4' LT.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
DRAWN BY	DRAWN BY	
CHECKED BY	CHECKED BY	
NOTE BOOK	NOTE BOOK	
QUANTITIES BY	QUANTITIES BY	
CHECKED BY	CHECKED BY	
N _o .	N _o .	

1/kbrtd09.dgn

6/6/94 Added Drainage Plan Sheet

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

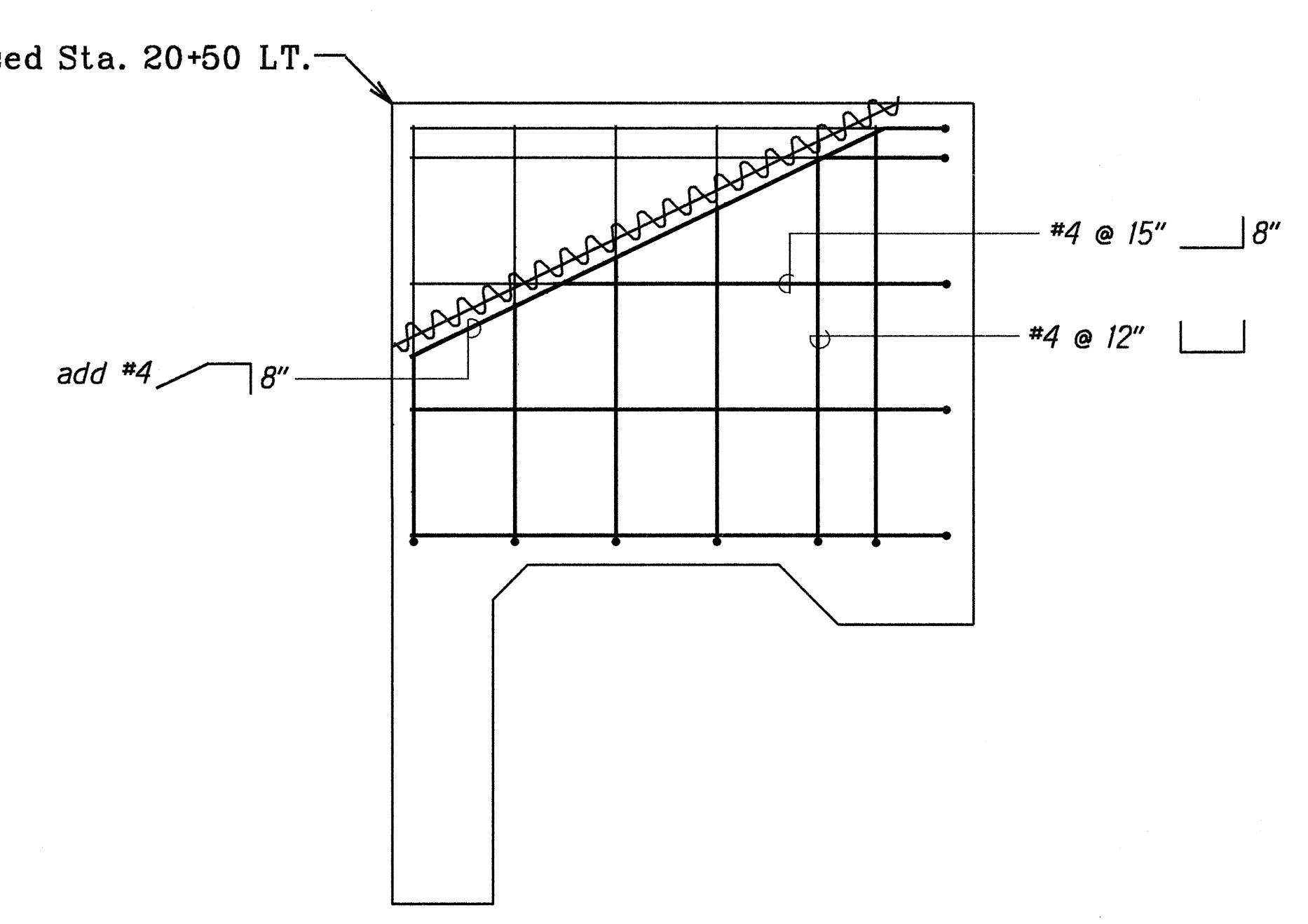
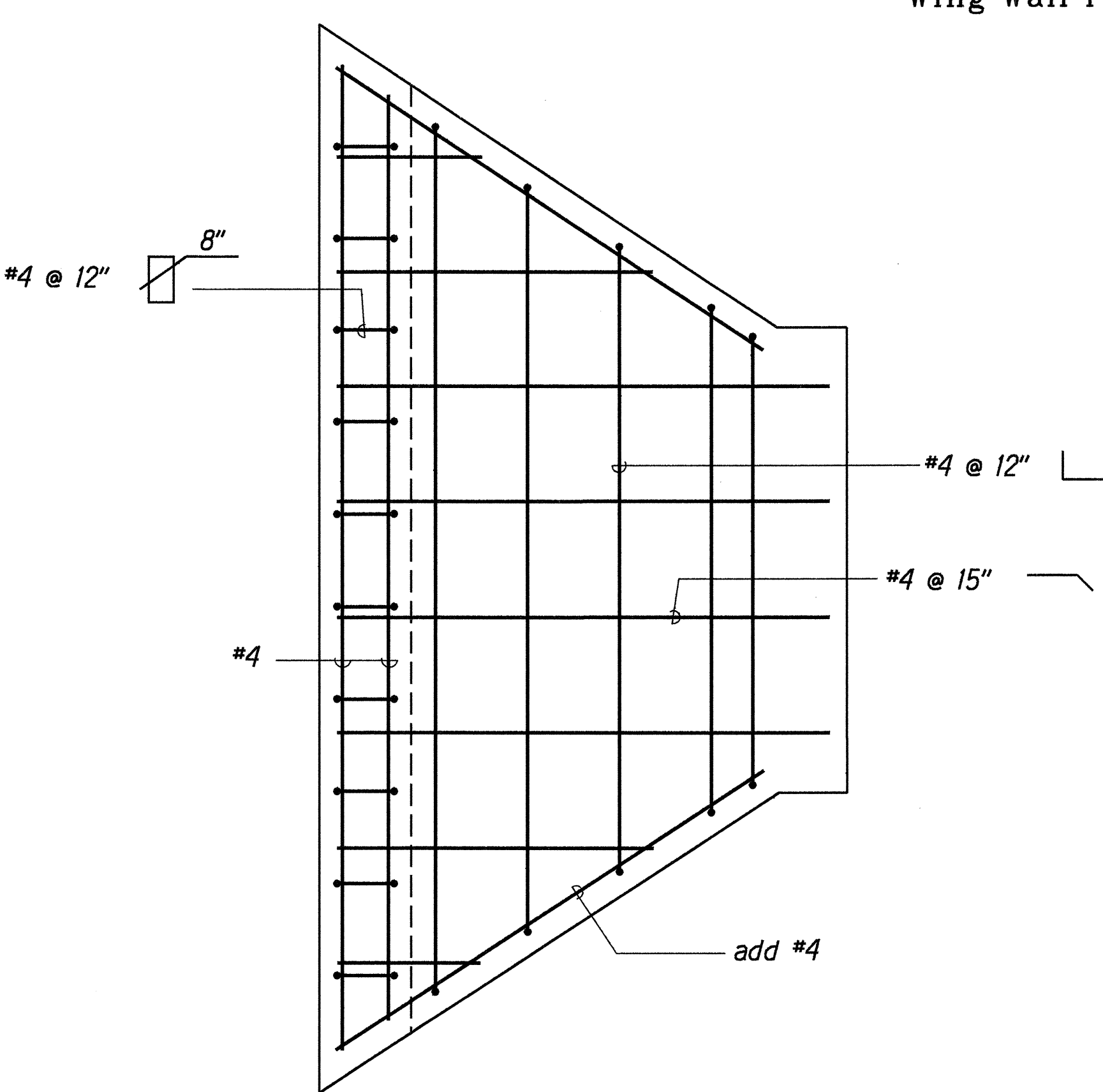
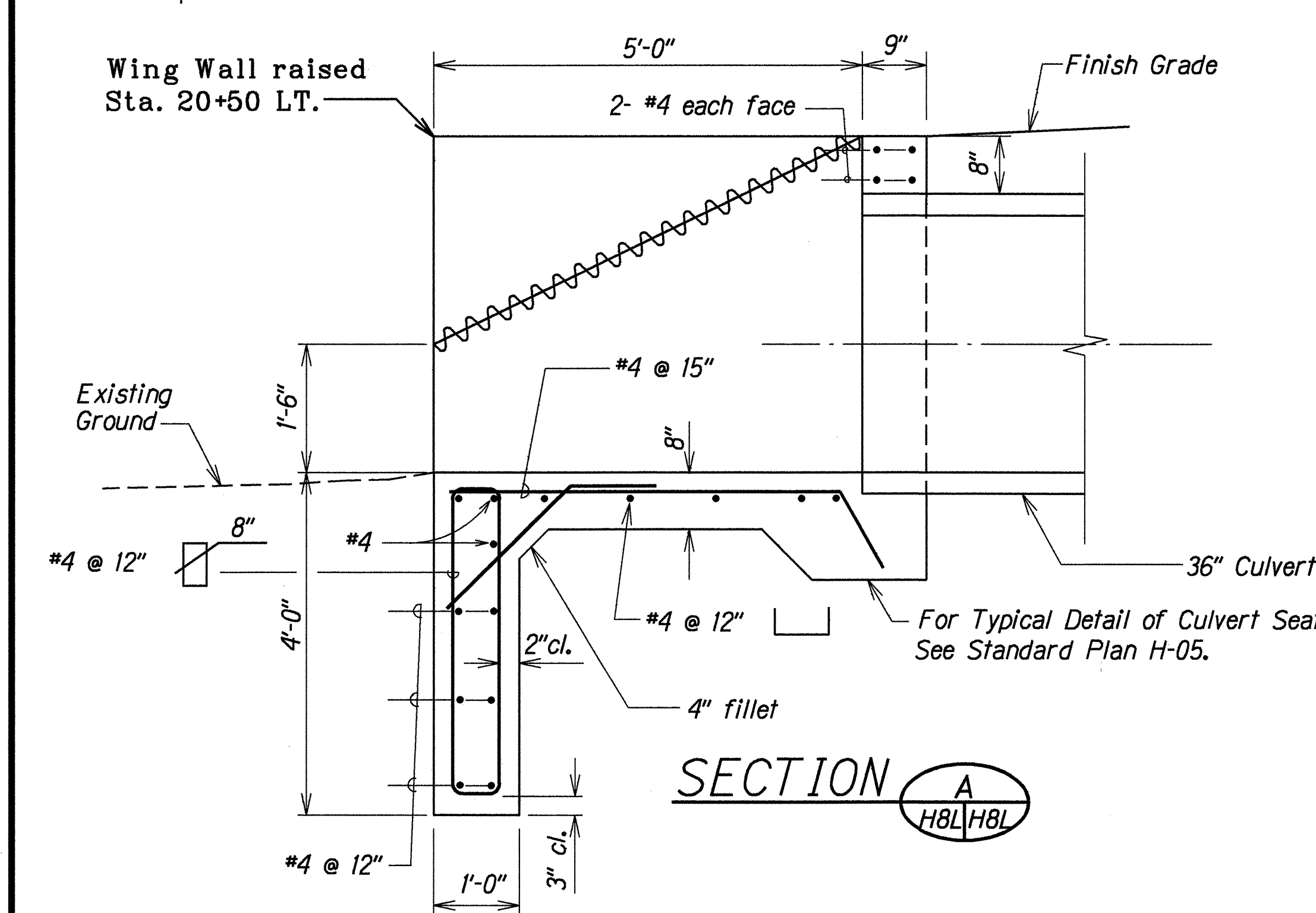
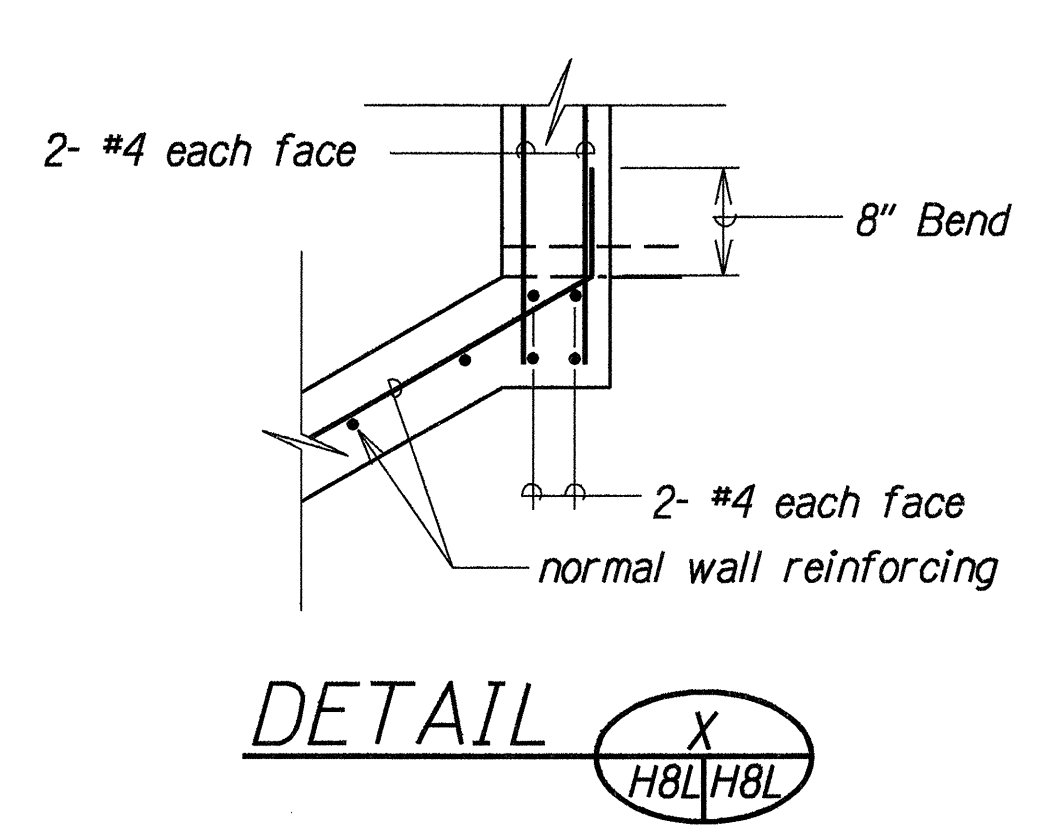
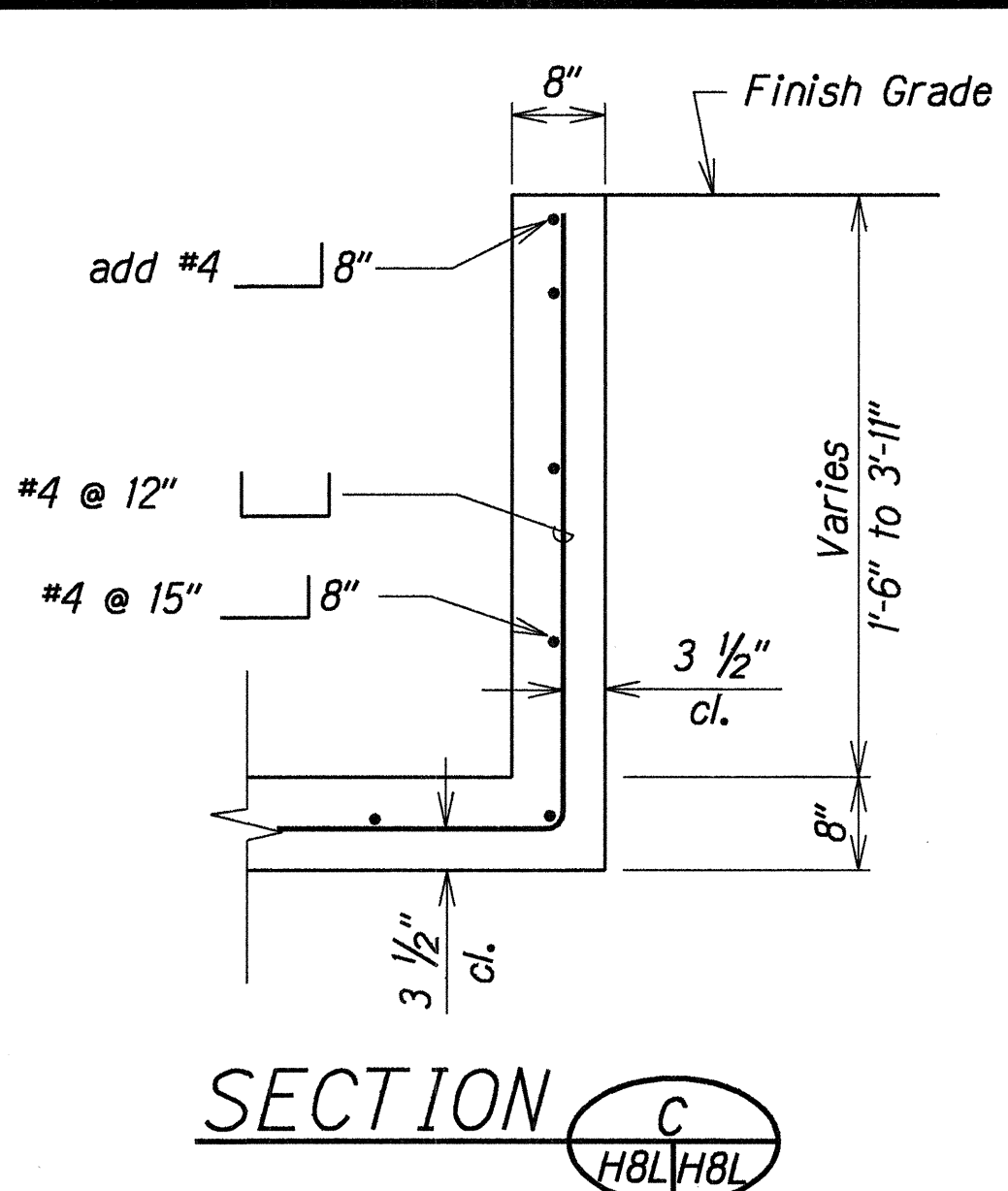
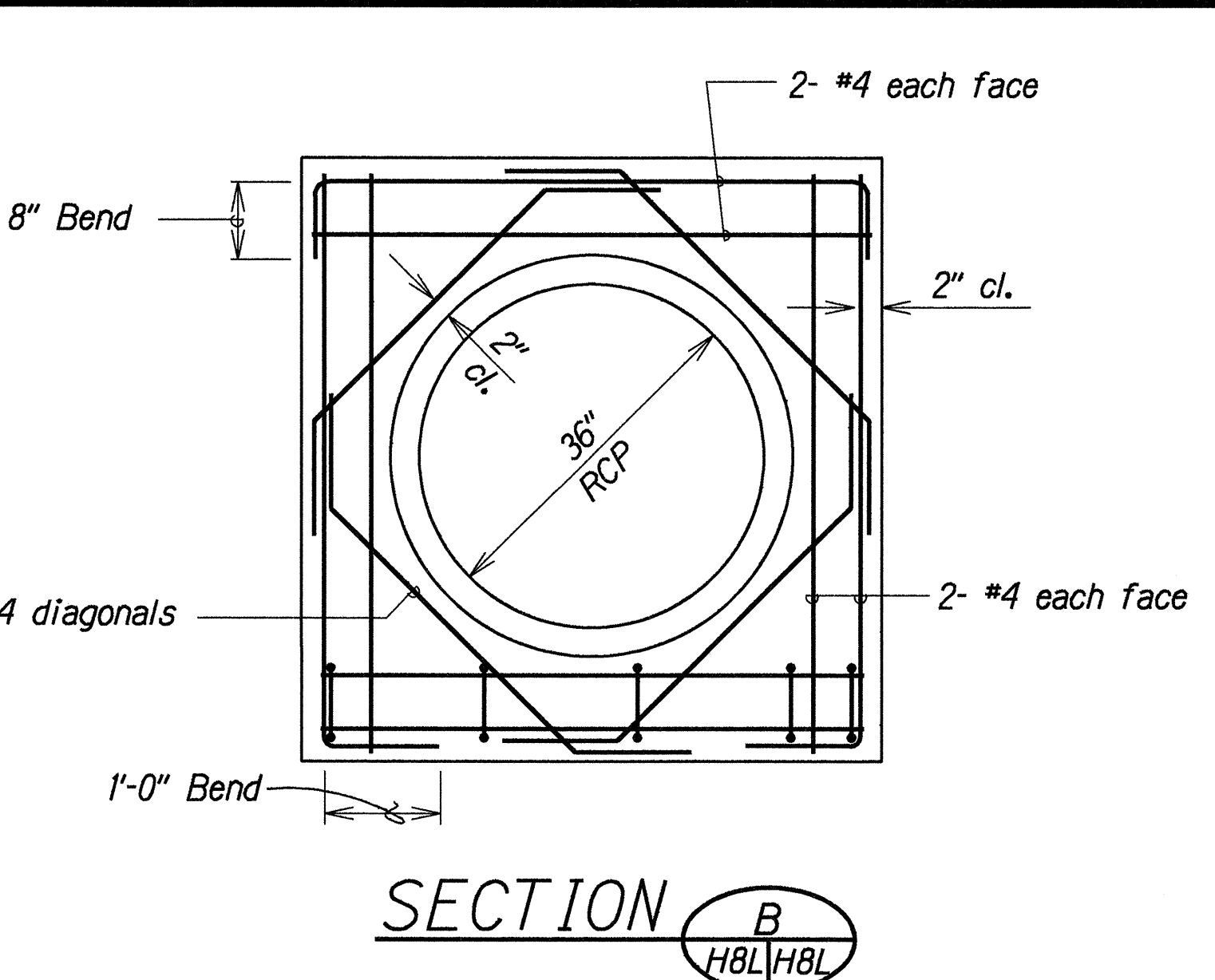
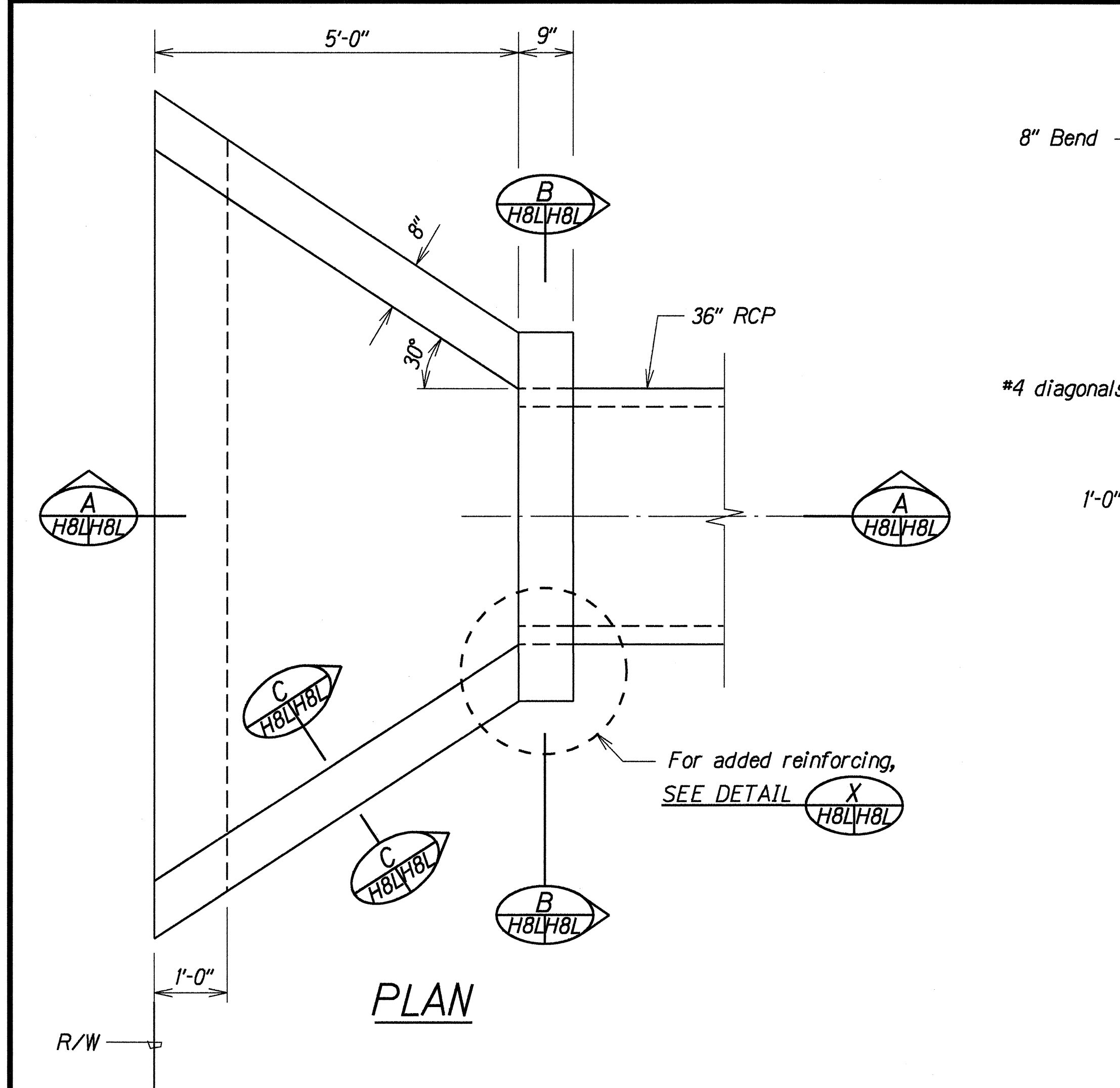
KAHULUI BEACH ROAD IMPROVEMENTS
Waiehu Beach Road to Kaahumanu Avenue
Project No. 3400A-02-91

Scale: 3/4"=1'-0" Date: May 1994

SHEET No. H8K OF 8 SHEETS

ADD. 25S-11

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	25S-12	46



ELEVATION VIEW OF REINFORCING STEEL THROUGH WALL SECTION

PLAN VIEW OF REINFORCING STEEL AT BOTTOM SLAB

DETAIL OF 36" RCP OUTLET STRUCTURE

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
KAHULUI BEACH ROAD IMPROVEMENTS
Waiehu Beach Road to Kaahumanu Avenue
Project No. 3400A-02-91
Scale: 3/4"=1'-0" Date: May 1994

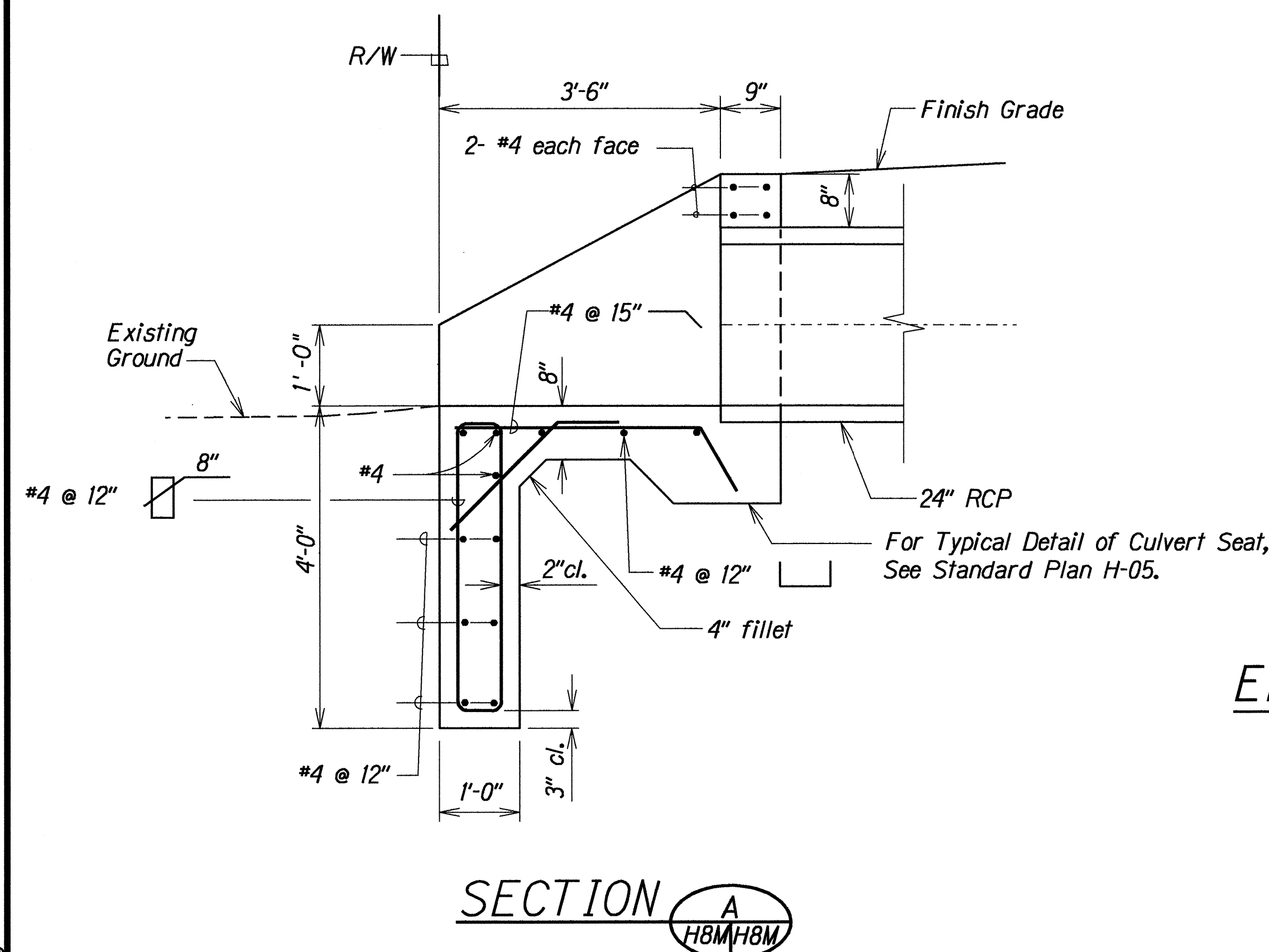
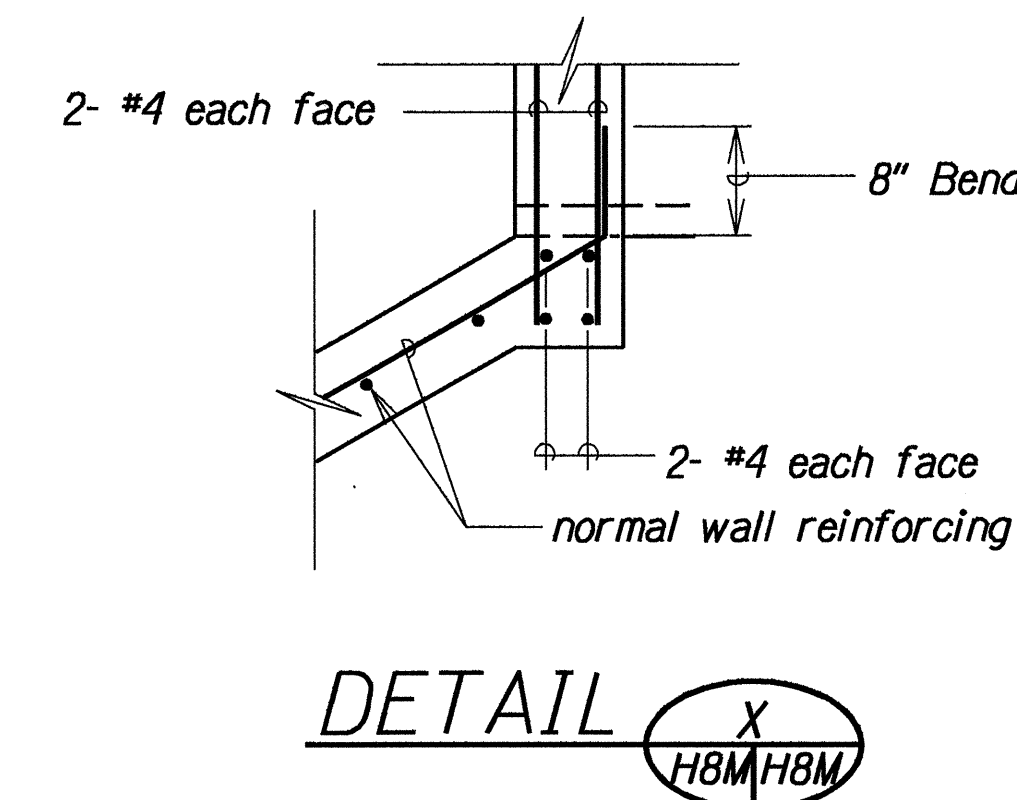
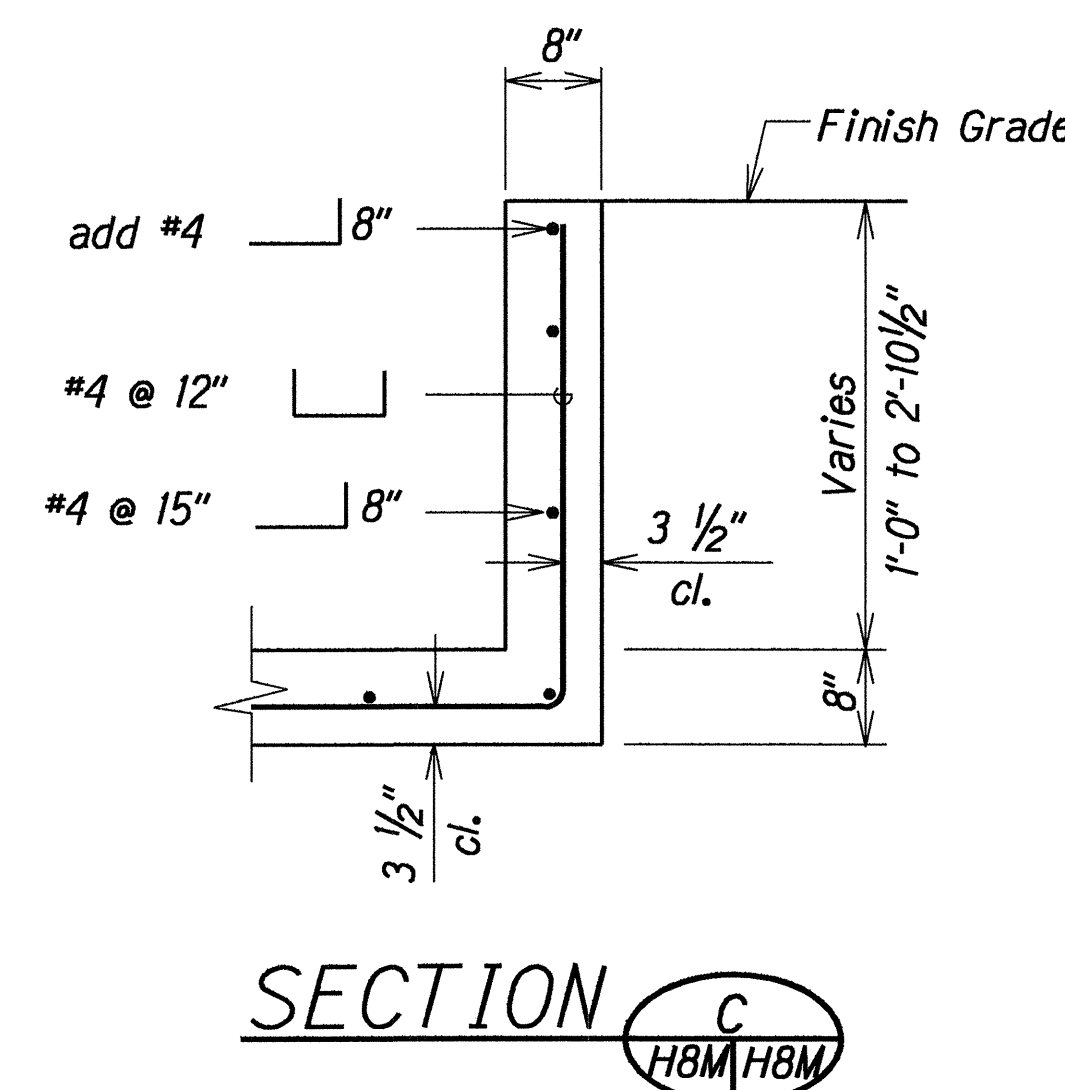
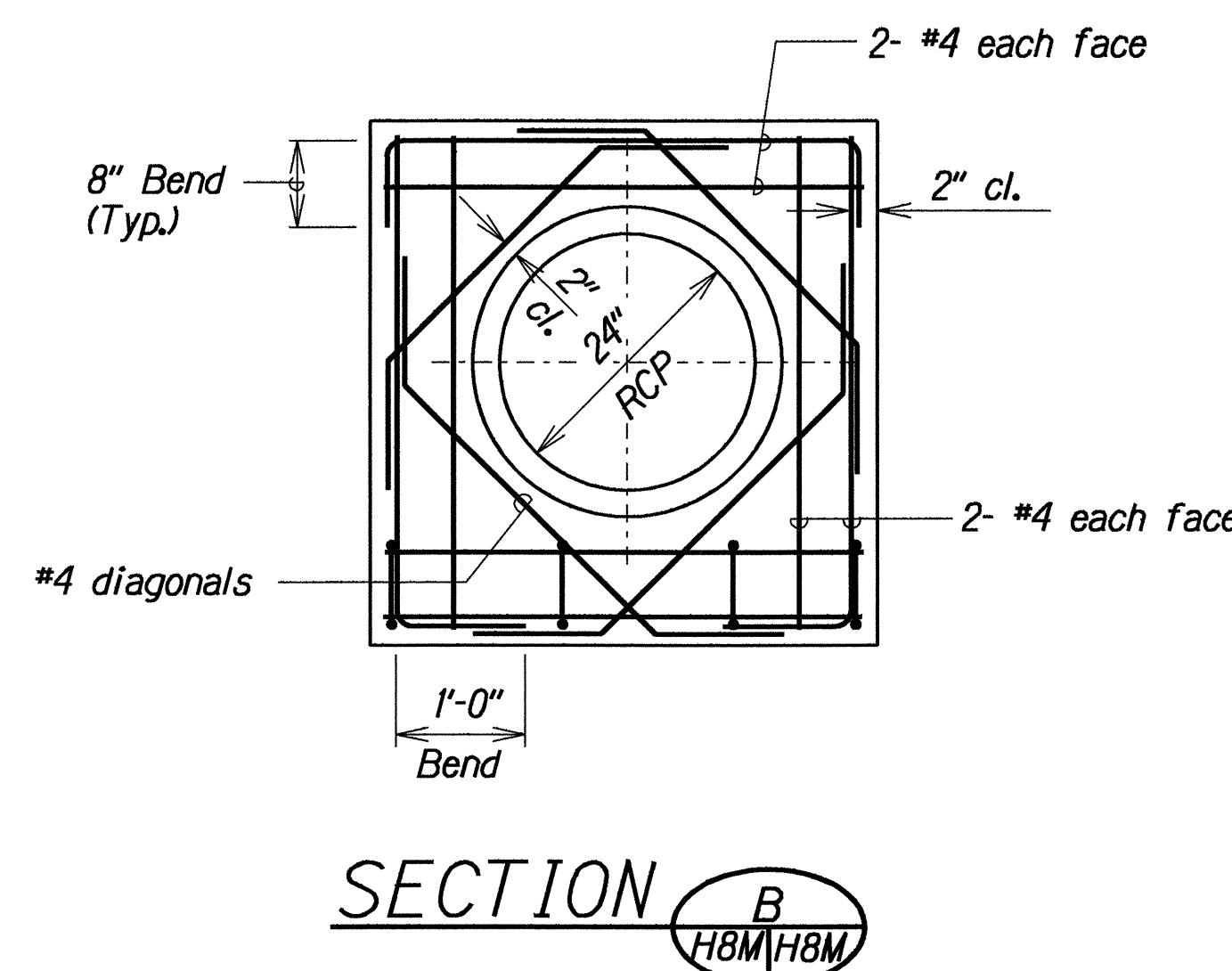
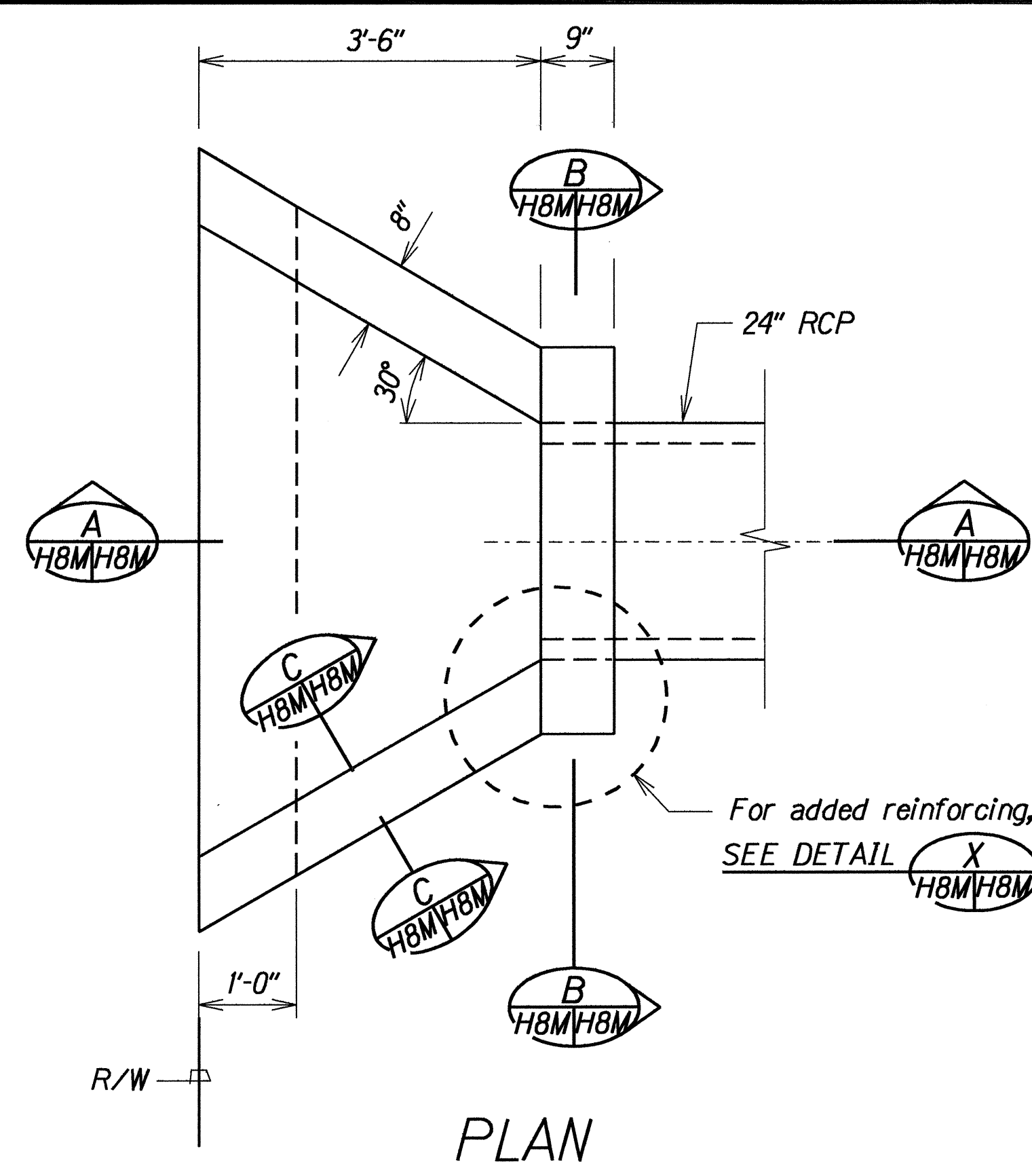
SURVEY PLOTTED BY	DATE
DRAWN BY A. Nomura	May 1994
CHECKED BY C. Matsuda, L. Chun	
QUANTITIES BY	
NOTES BOOK	
ORIGINAL PLAN	

6/6/94	Added Drainage Plan Sheet
DATE	REVISION

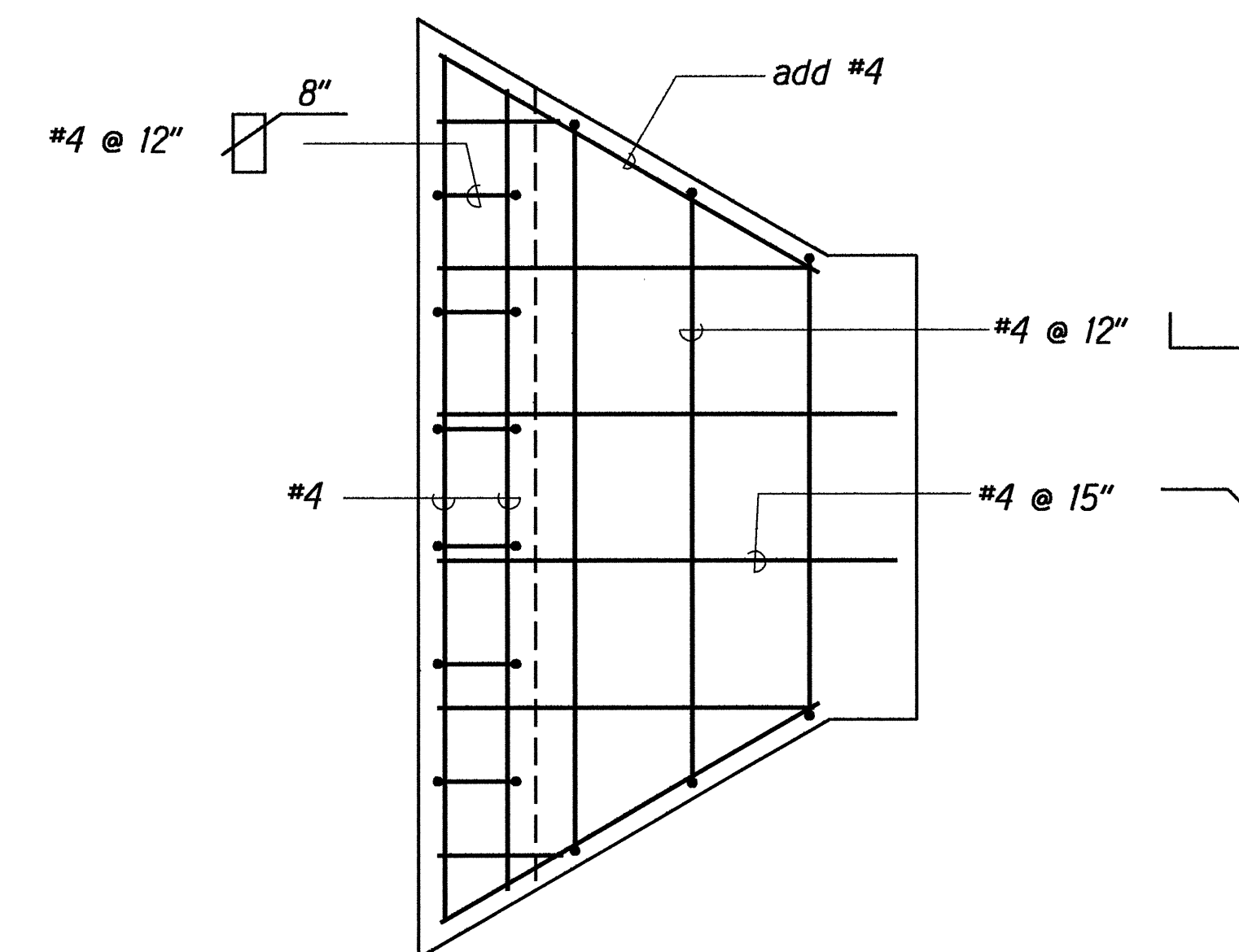
SHEET No. H8L OF 8 SHEETS

ADD. 25S-12
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	25S-13	46



ELEVATION VIEW OF REINFORCING STEEL THROUGH WALL SECTION



DETAIL OF 24" RCP OUTLET STRUCTURE

ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
IN CHARGE	

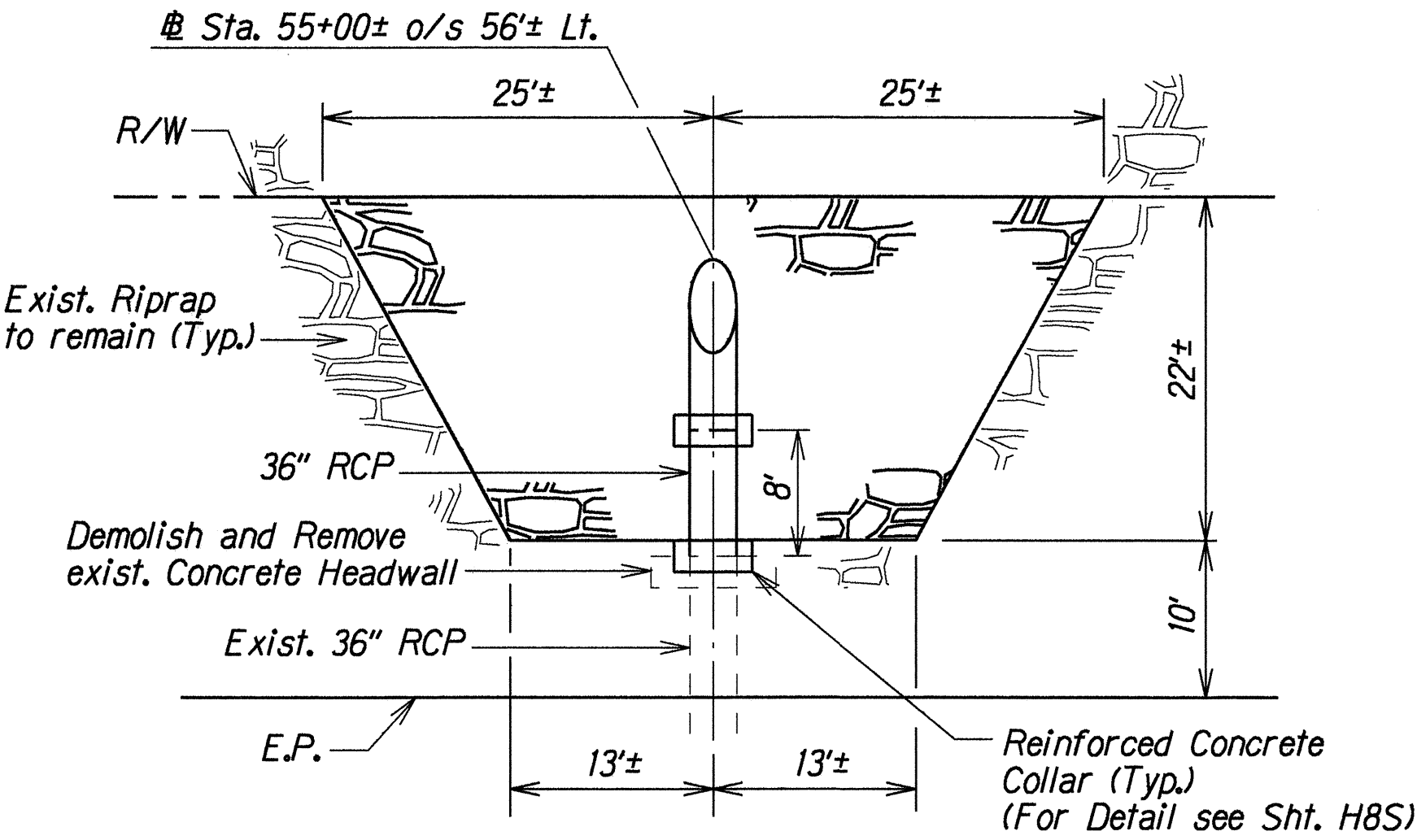
lkbr hdt06.dgn

6/6/94	Added Drainage Plan Sheet
DATE	REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
DRAINAGE DETAILS
KAHULUI BEACH ROAD IMPROVEMENTS Waiehu Beach Road to Kaahumanu Avenue Project No. 3400A-02-91
Scale: 3/4"=1'-0" Date: May 1994
SHEET No. H8M OF 8 SHEETS

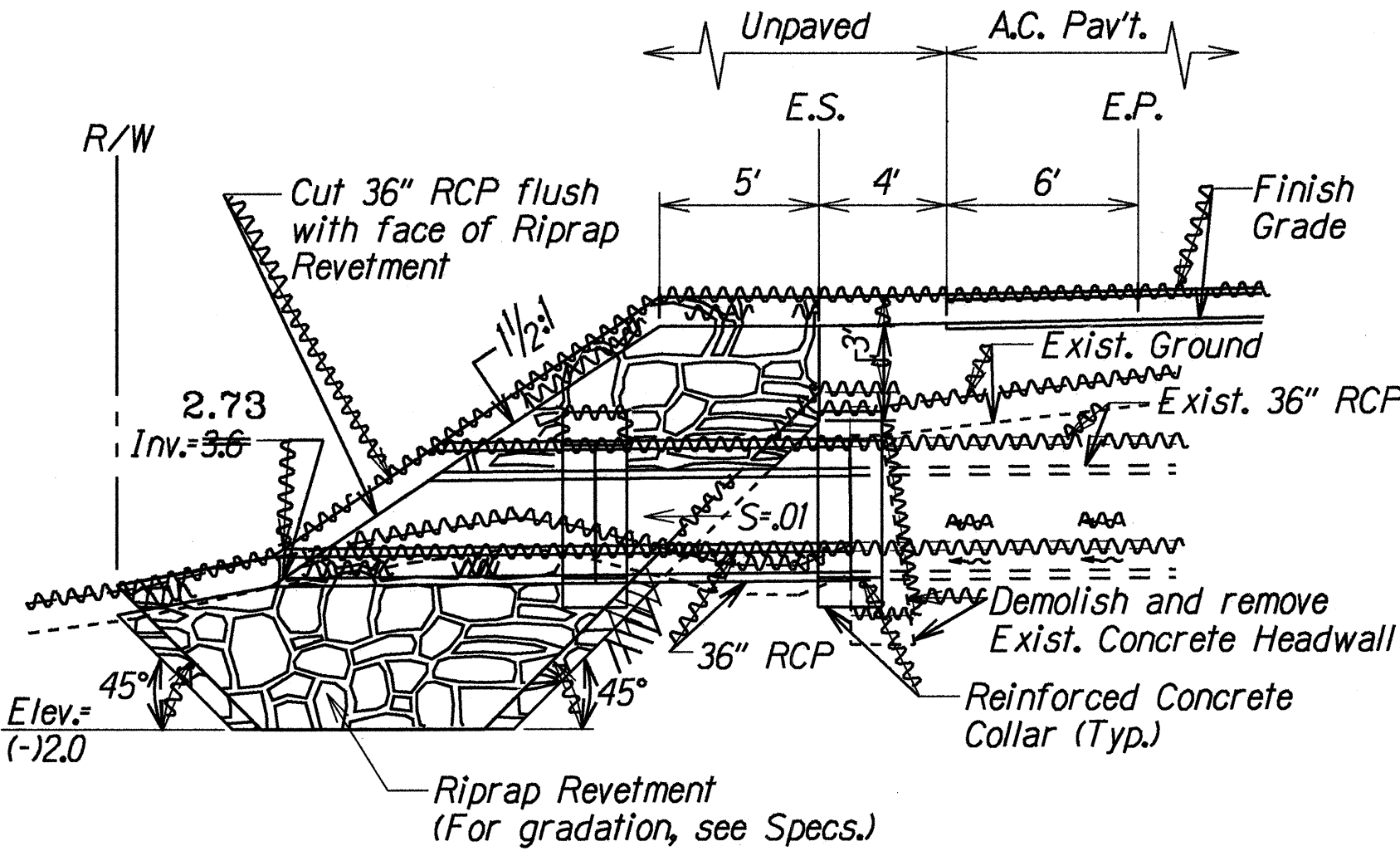
ADD. 25S-13

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	25S-14	46



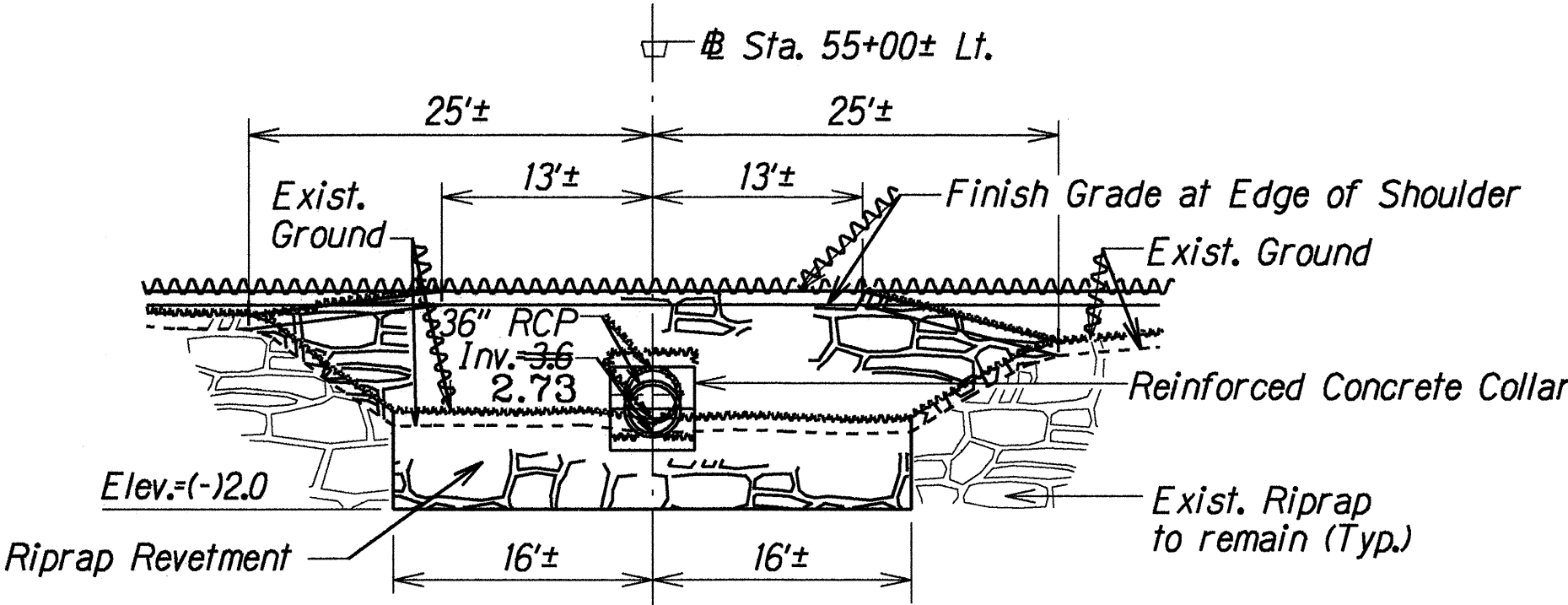
PLAN

Scale: 1"=10'



PROFILE

Scale: 1"=5'



ELEVATION

Scale: 1"=10'

DETAILS OF RIPRAP REVETMENT @ STA. 55+00± LT.

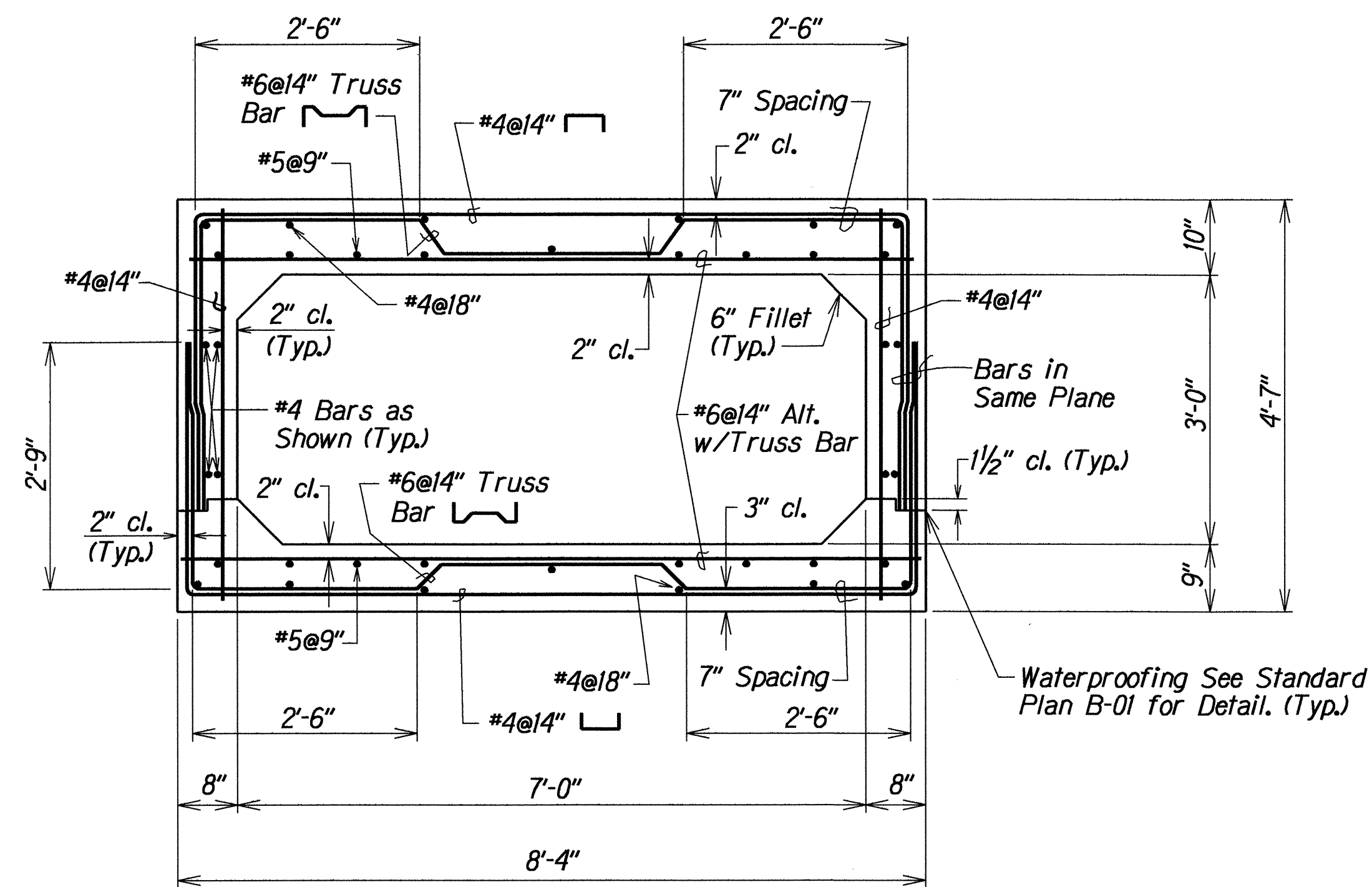
SURVEY PLOTTED BY	DATE
DRAWN BY A. Nomura	May 1994
NOTES BOOK	
QUANTITIES BY	
CHECKED BY	

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

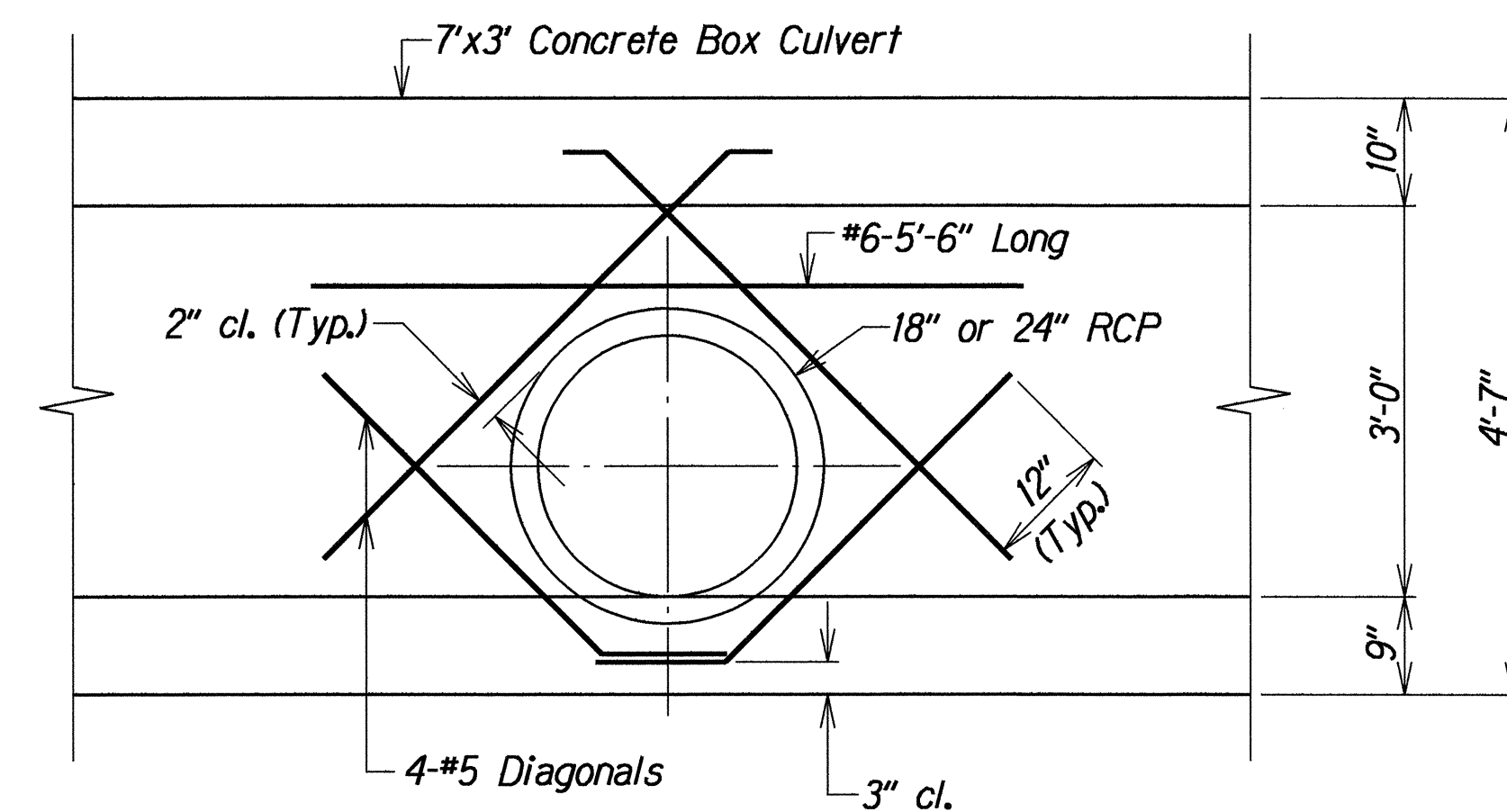
6/6/94	Added Drainage Plan Sheet
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DRAINAGE DETAILS	
KAHULUI BEACH ROAD IMPROVEMENTS	
Waiehu Beach Road to Kaahumanu Avenue	
Project No. 3400A-02-91	
Scale: As Shown	Date: May 1994
SHEET No. H8N OF 8 SHEETS	

ADD. 25S-14
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	25S-15	46



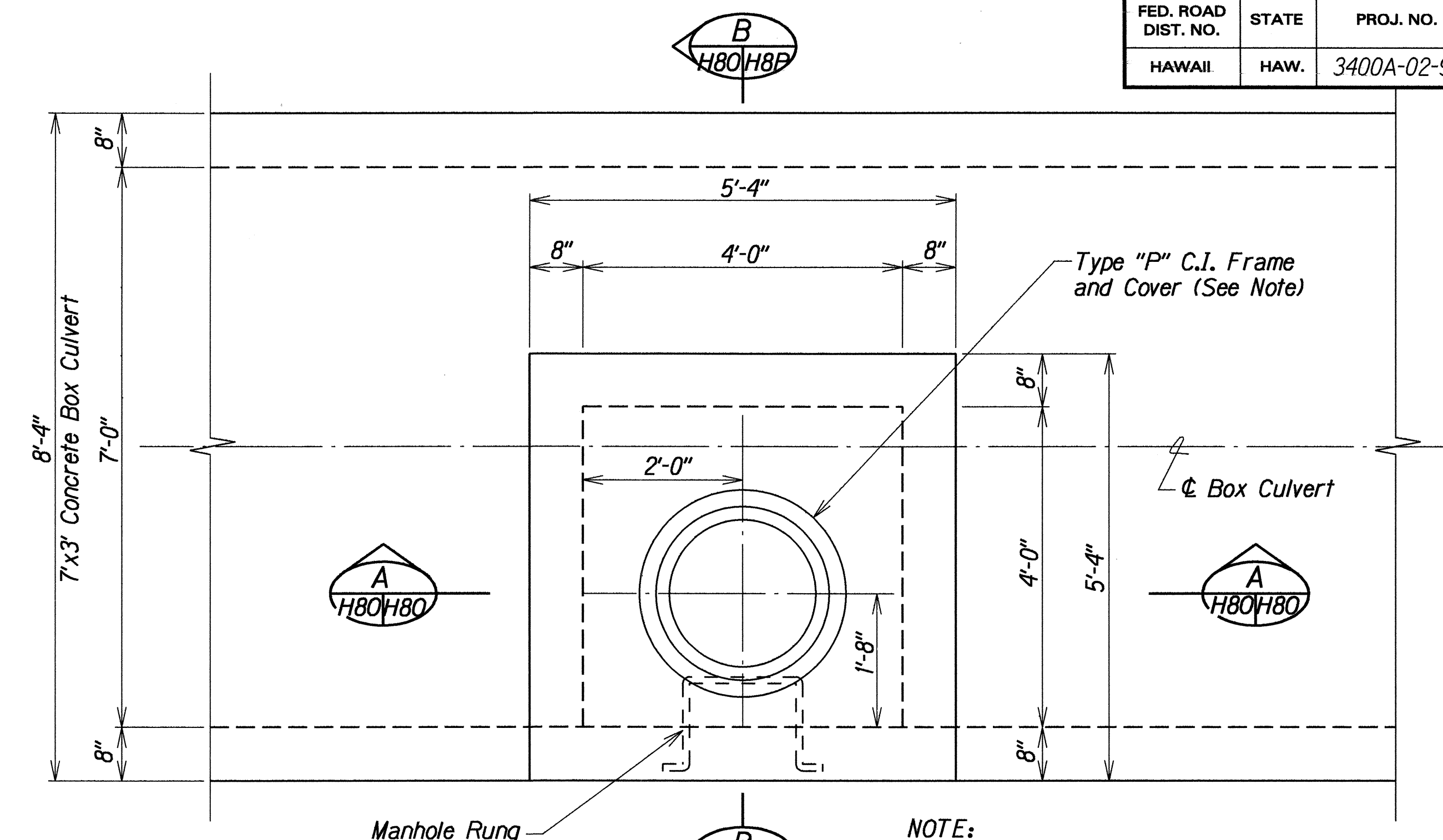
TYPICAL SECTION CONCRETE BOX CULVERT



ADDED REINFORCING AROUND 18" AND 24" RCP

TYPICAL DETAIL OF TYPE 7'-0" x 3'-0" CONCRETE BOX CULVERT

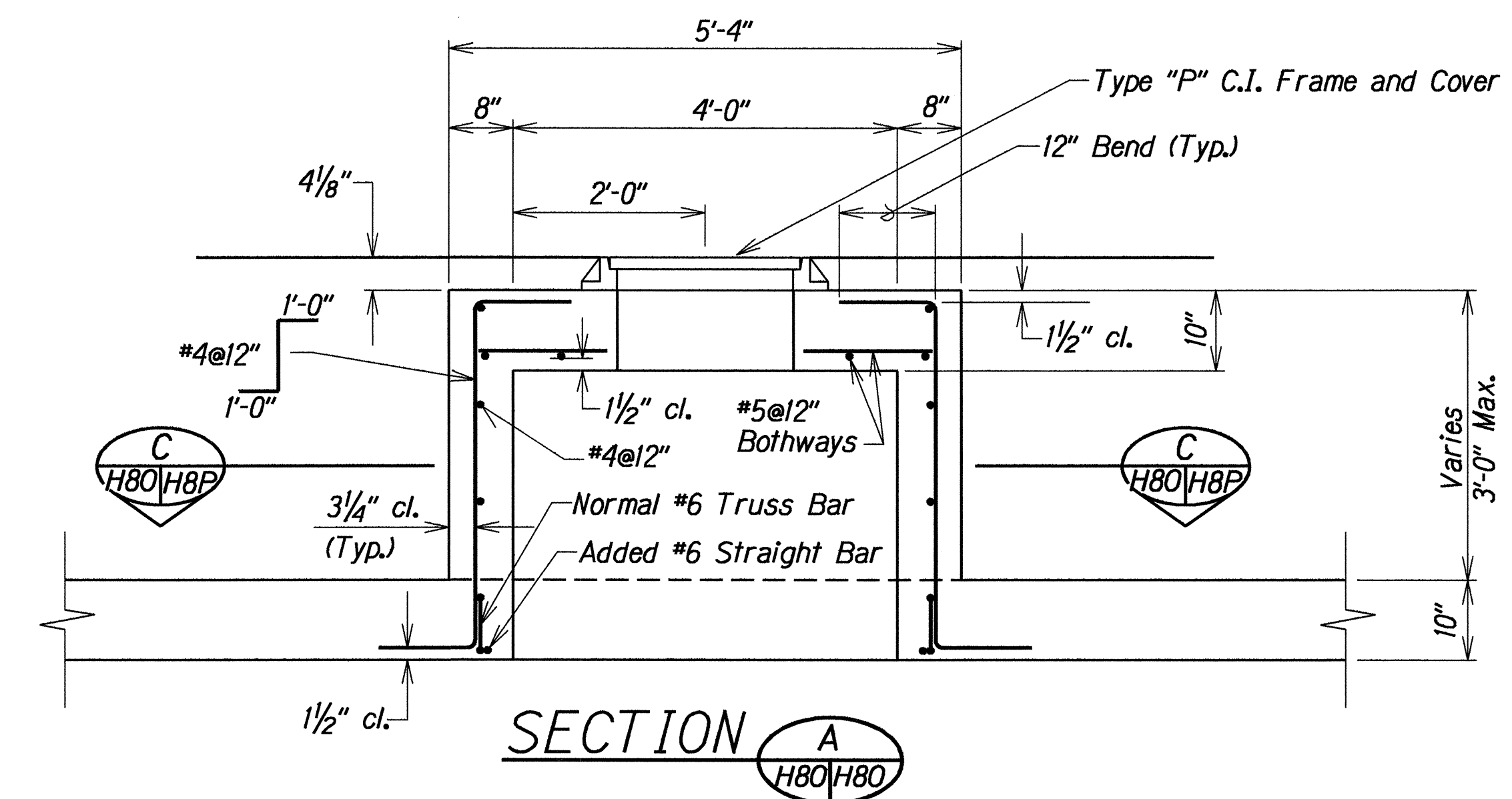
Scale: 3/4"=1'-0"



NOTE:

Type "P" C.I. Frame and Cover shall be used at Stations 8+42±, 9+20±, 12+50 and 15+00. Type "A" C.I. Frame and Cover shall be used at Station 17+50.

PLAN



SECTION A

TYPICAL DETAIL OF TYPE "1" SDMH

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

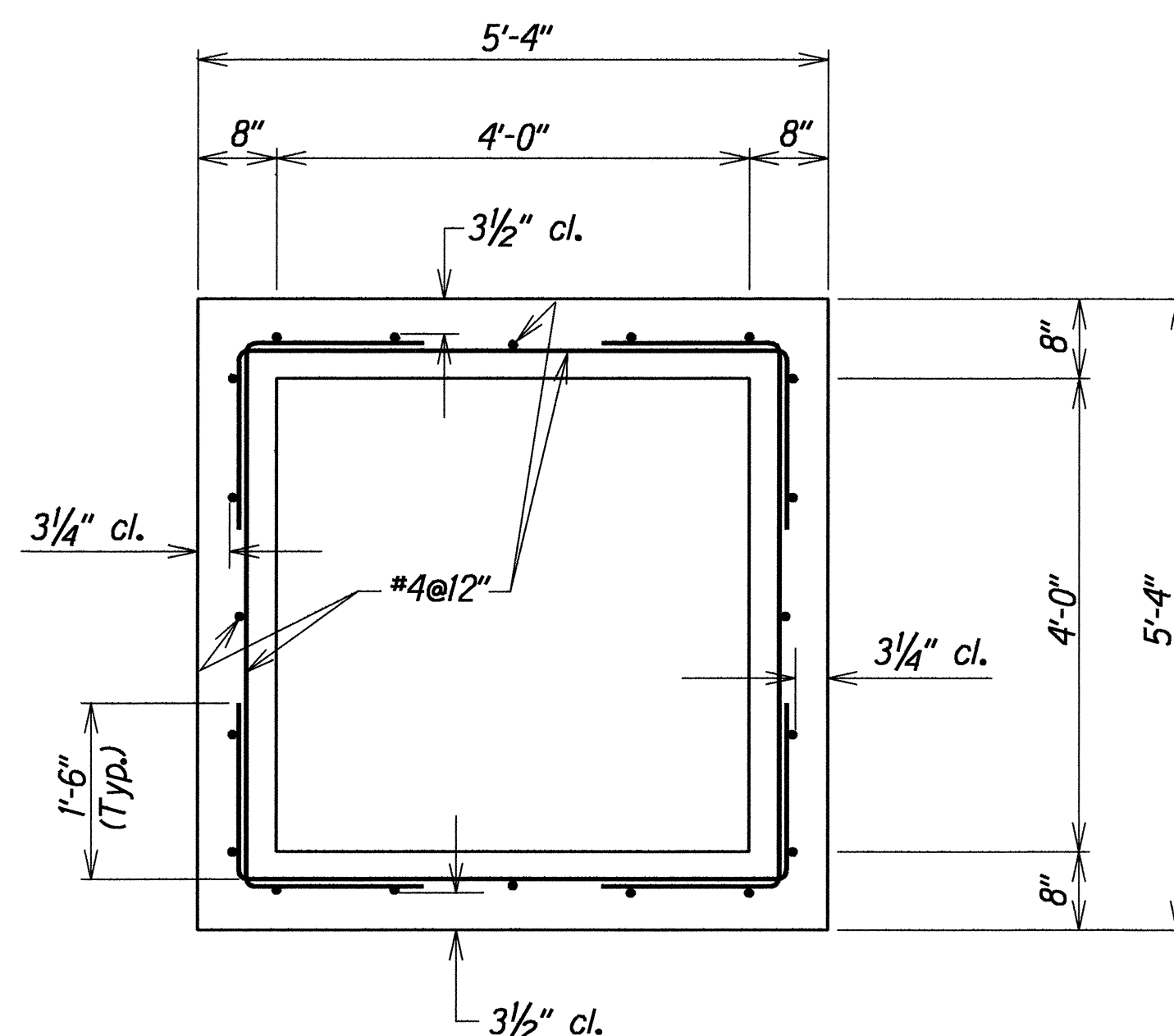
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

6/6/94	Added Drainage Plan Sheet
DATE	REVISION

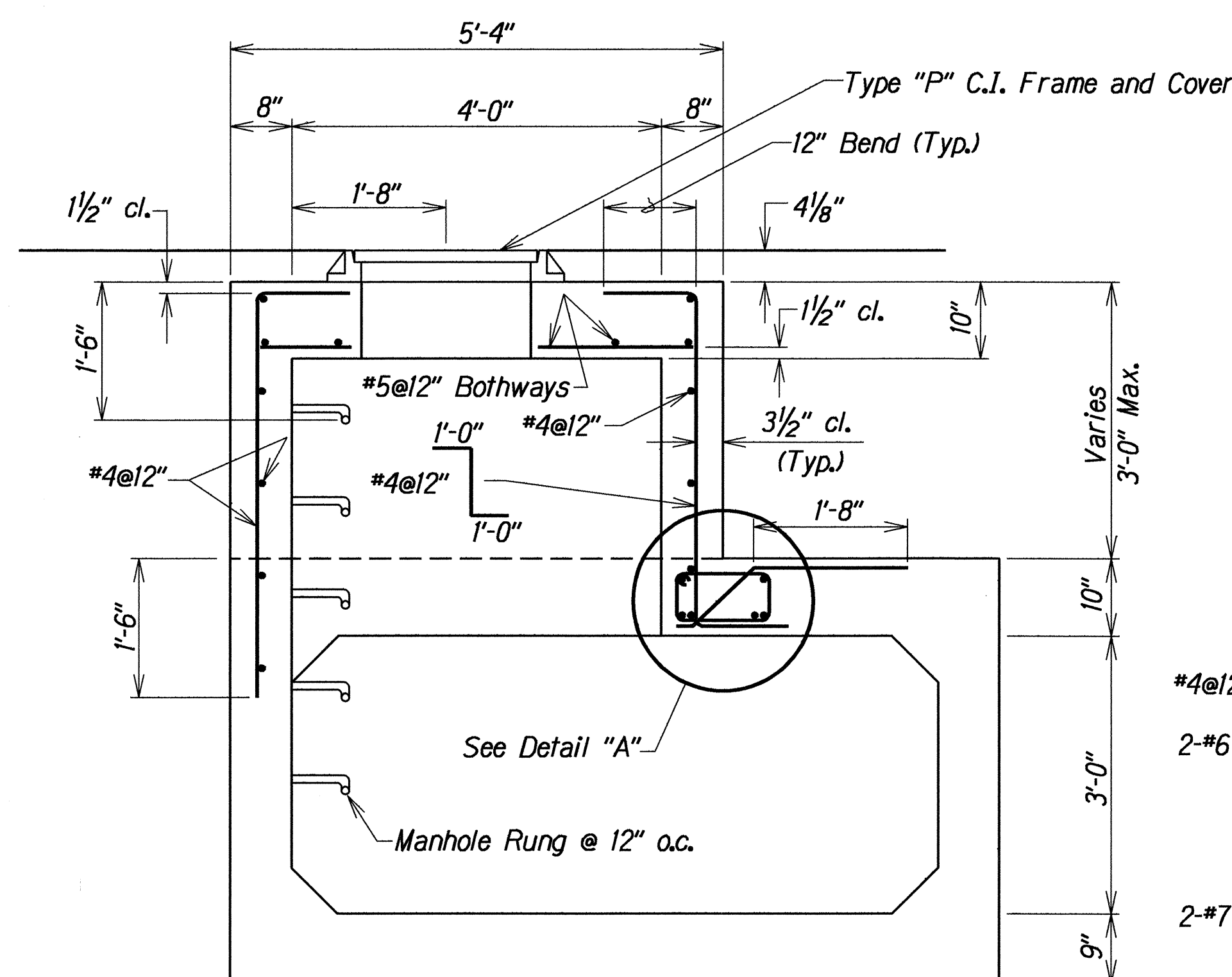
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
DRAINAGE DETAILS
KAHULUI BEACH ROAD IMPROVEMENTS Waiehu Beach Road to Kaahumanu Avenue Project No. 3400A-02-91
Scale: As Shown Date: May 1994
SHEET No. H80 OF 8 SHEETS

ADD. 25S-15

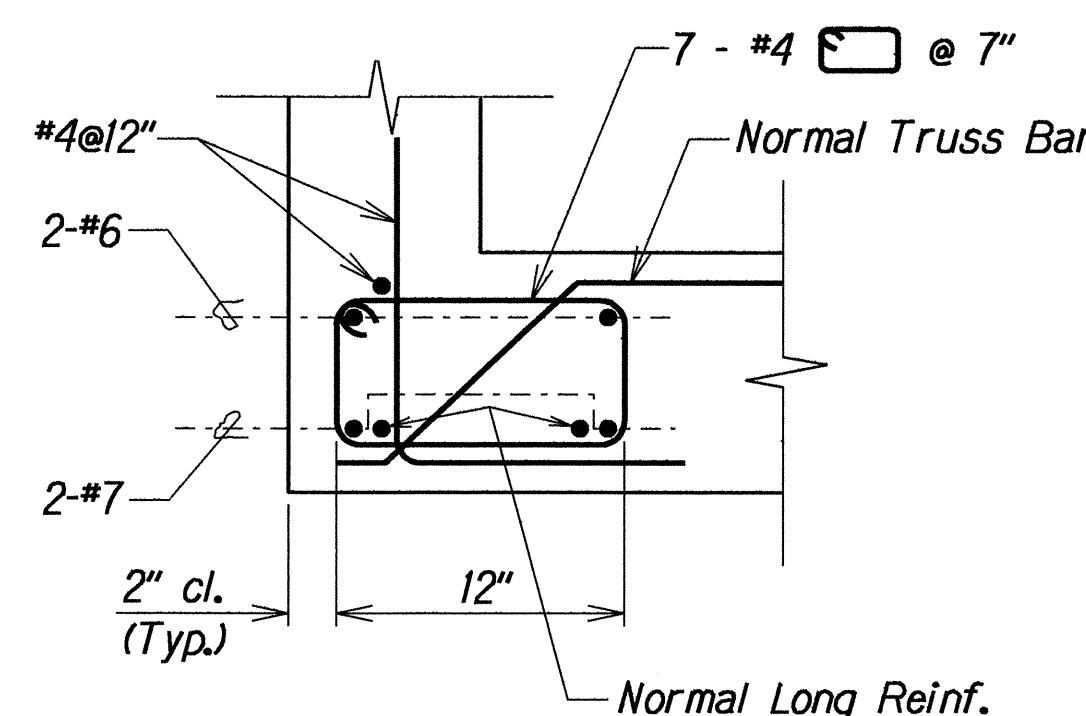
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	25S-16	46



SECTION C
H80/H8P

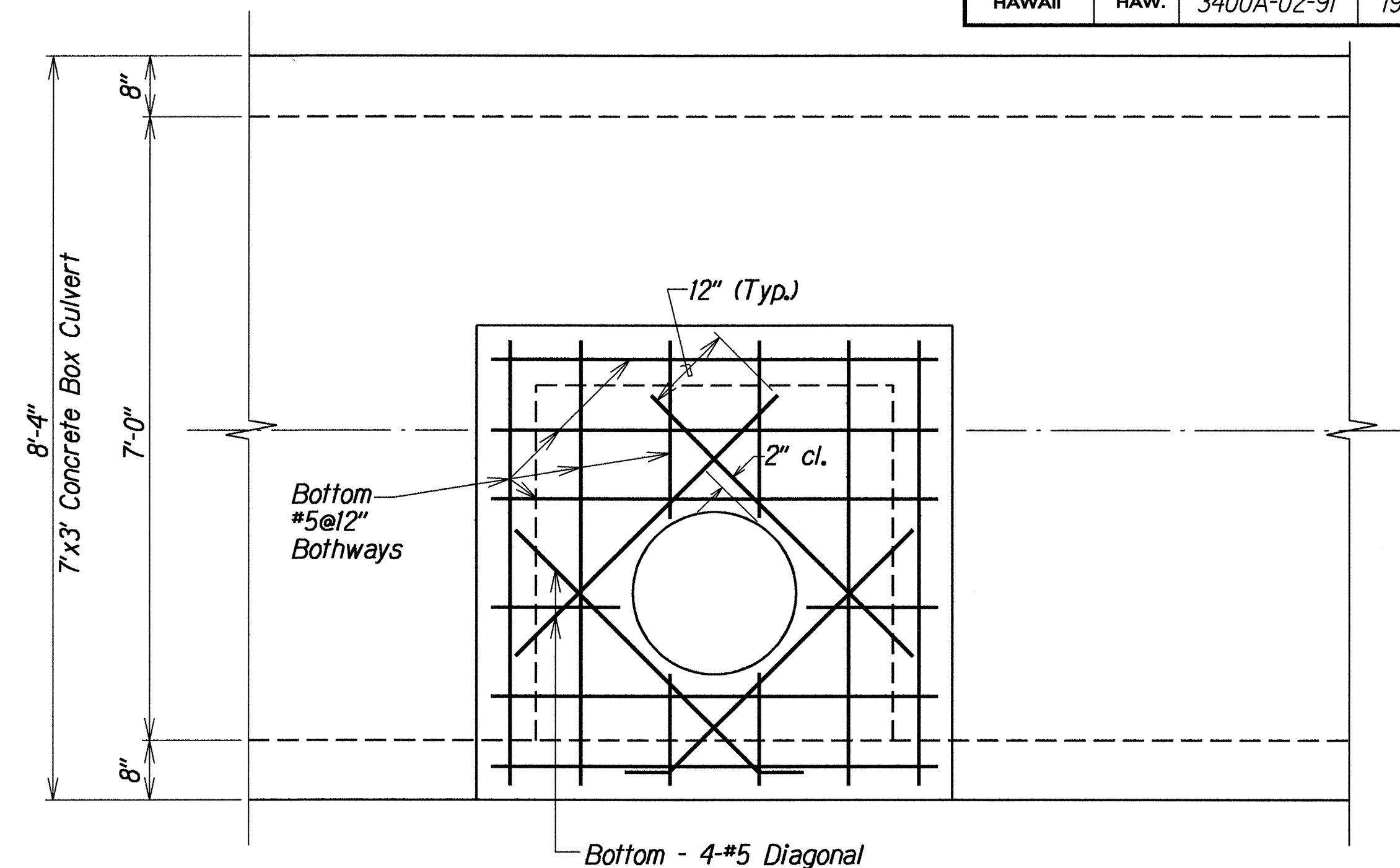


SECTION B
H80/H8P

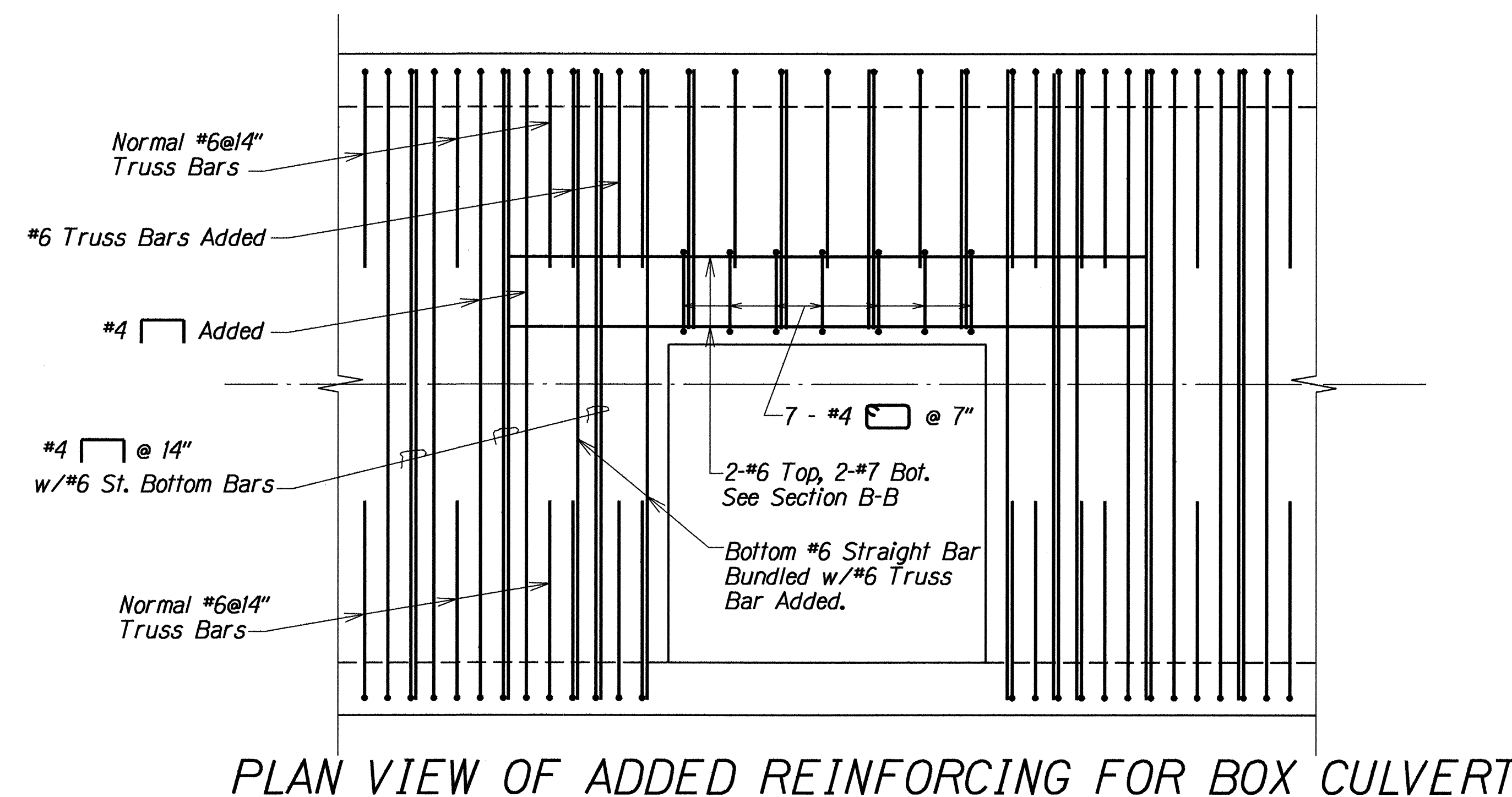


DETAIL "A"
Scale: 1 1/2"=1'-0"

TYPICAL DETAIL OF TYPE "1" SDMH
Scale: 3/4"=1'-0"



PLAN VIEW OF SDMH TOP SLAB REINFORCING



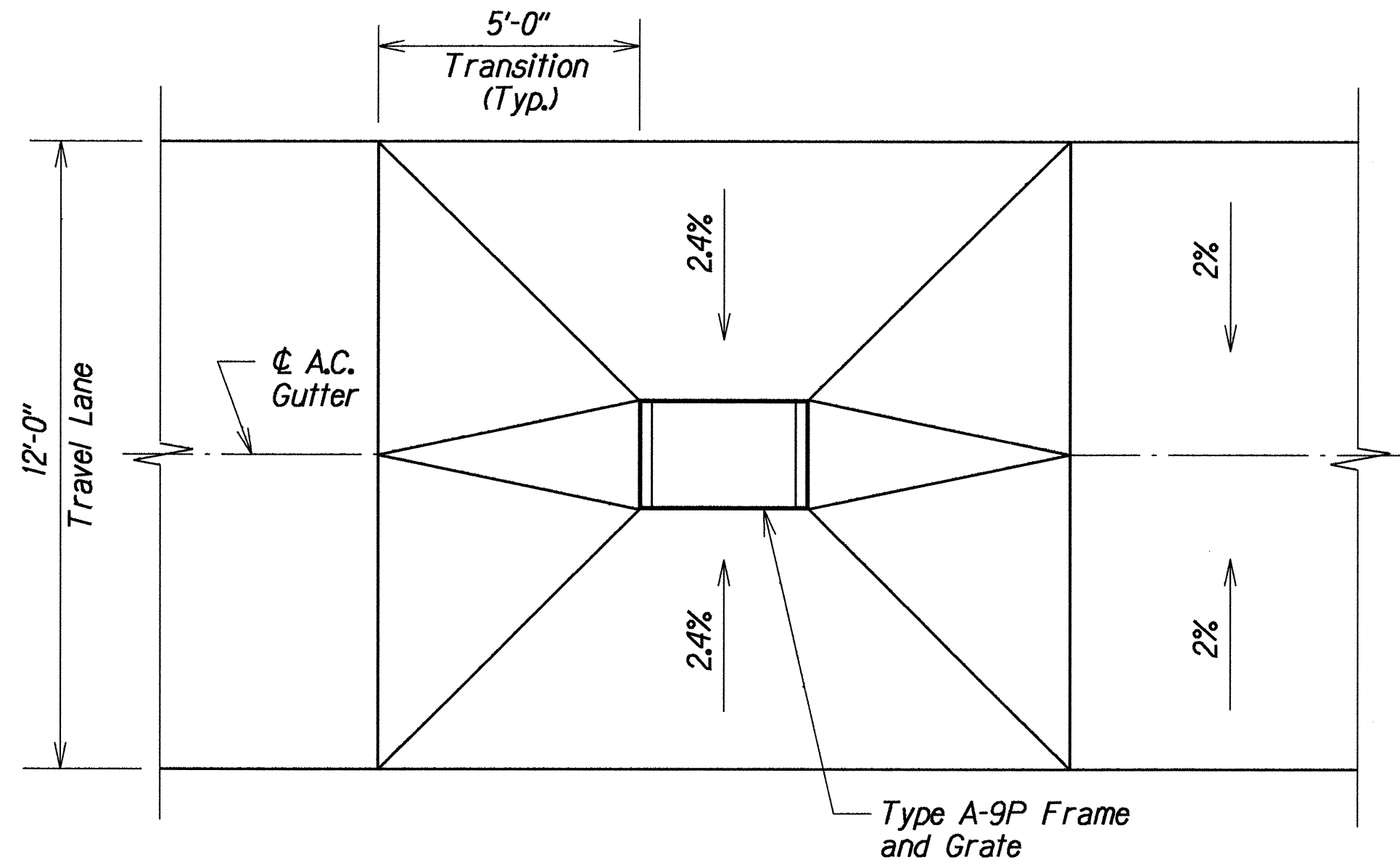
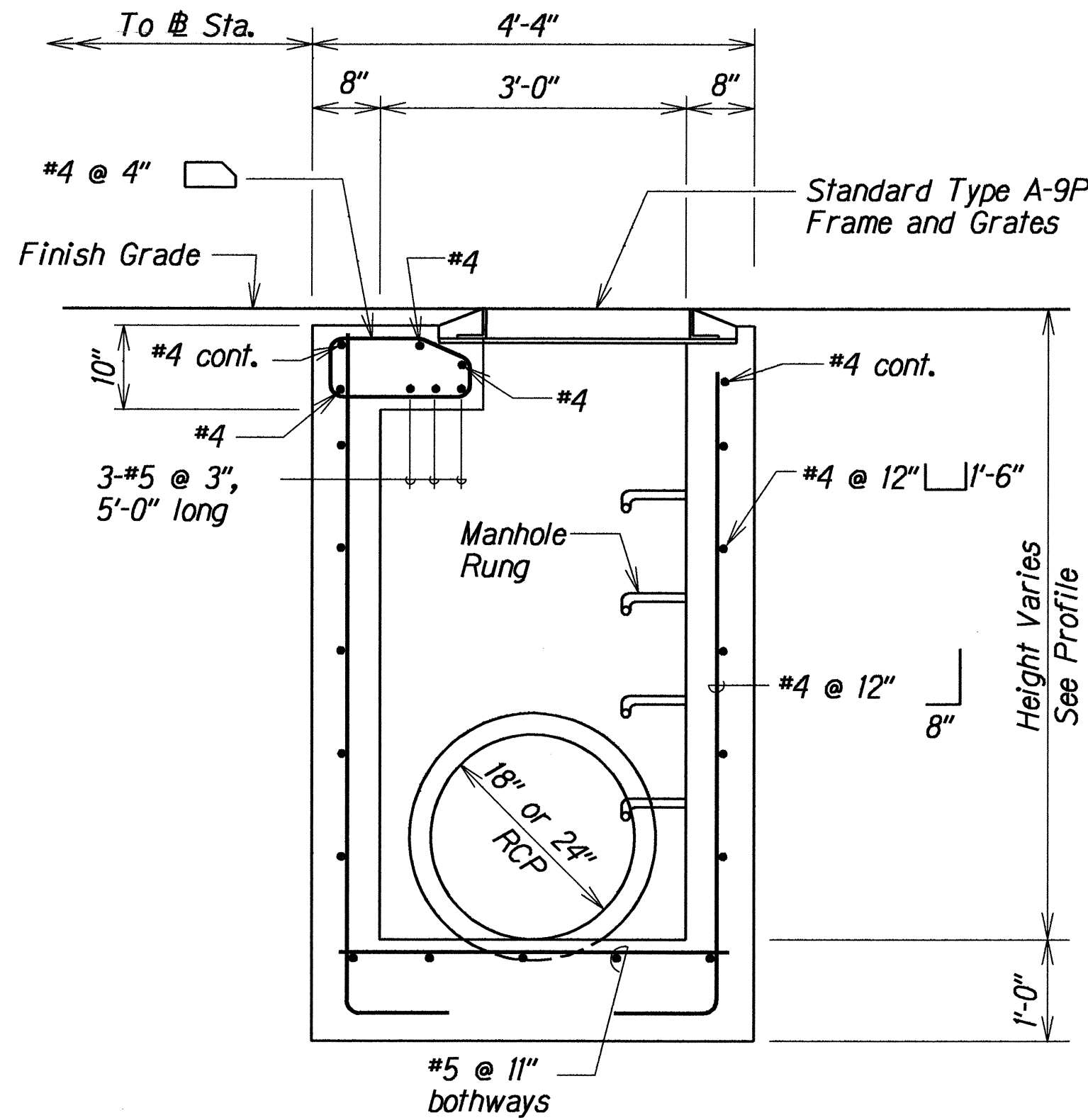
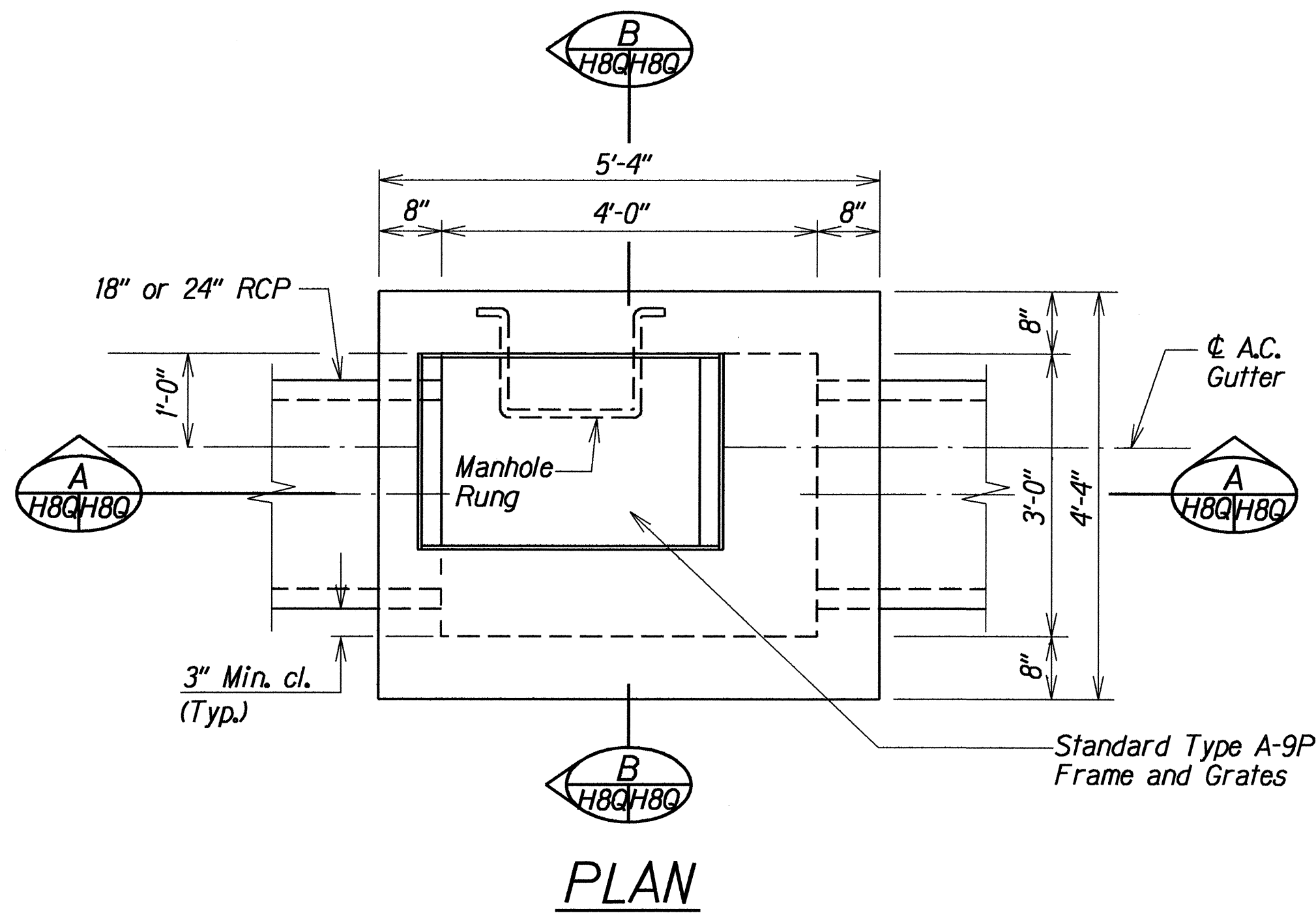
PLAN VIEW OF ADDED REINFORCING FOR BOX CULVERT

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
Nc.	

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>DRAINAGE DETAILS</u>	
KAHULUI BEACH ROAD IMPROVEMENTS Waiehu Beach Road to Kaahumanu Avenue Project No. 3400A-02-91	
Scale: As Shown	Date: May 1994
SHEET No. H8P OF 8 SHEETS	

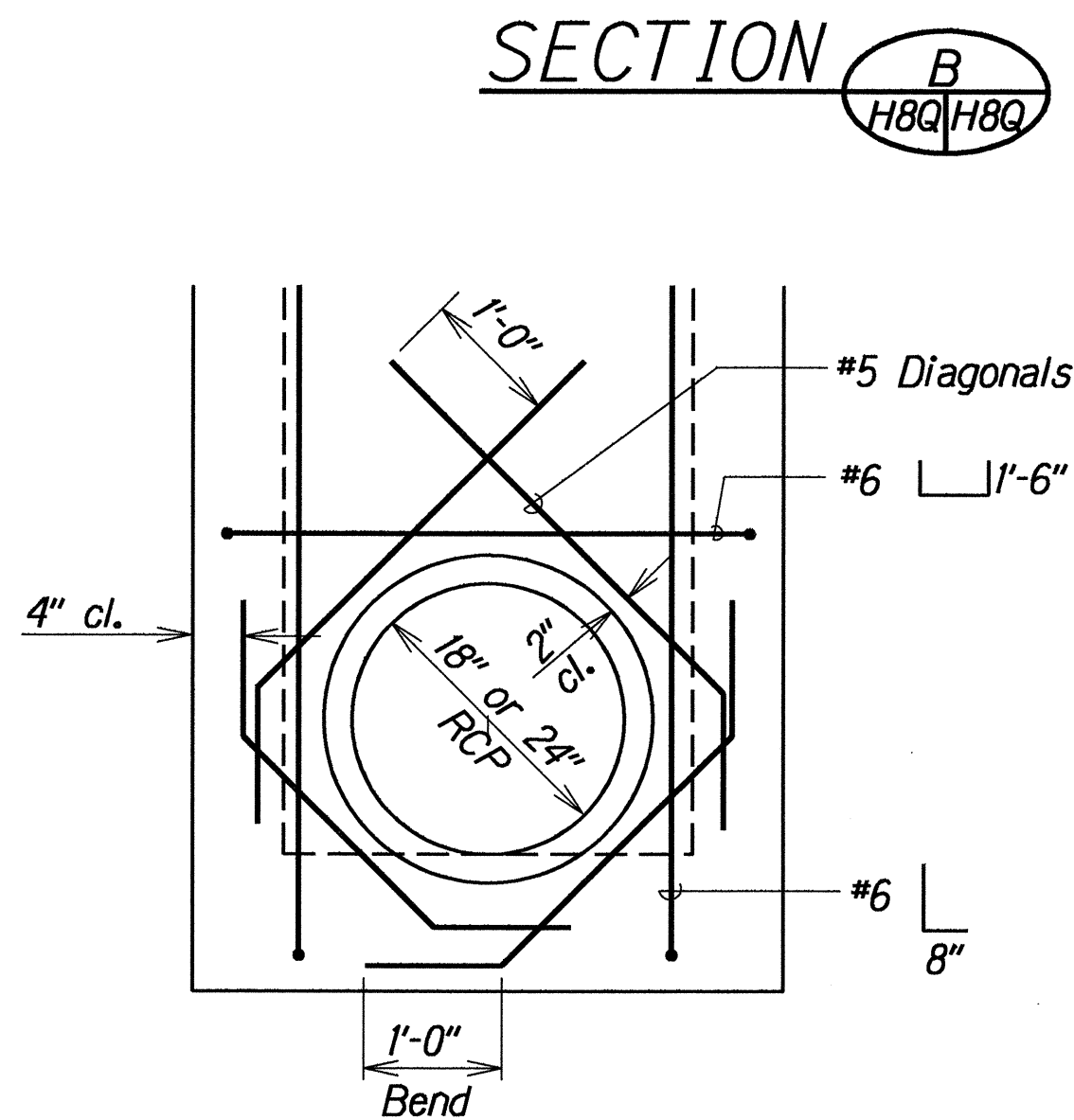
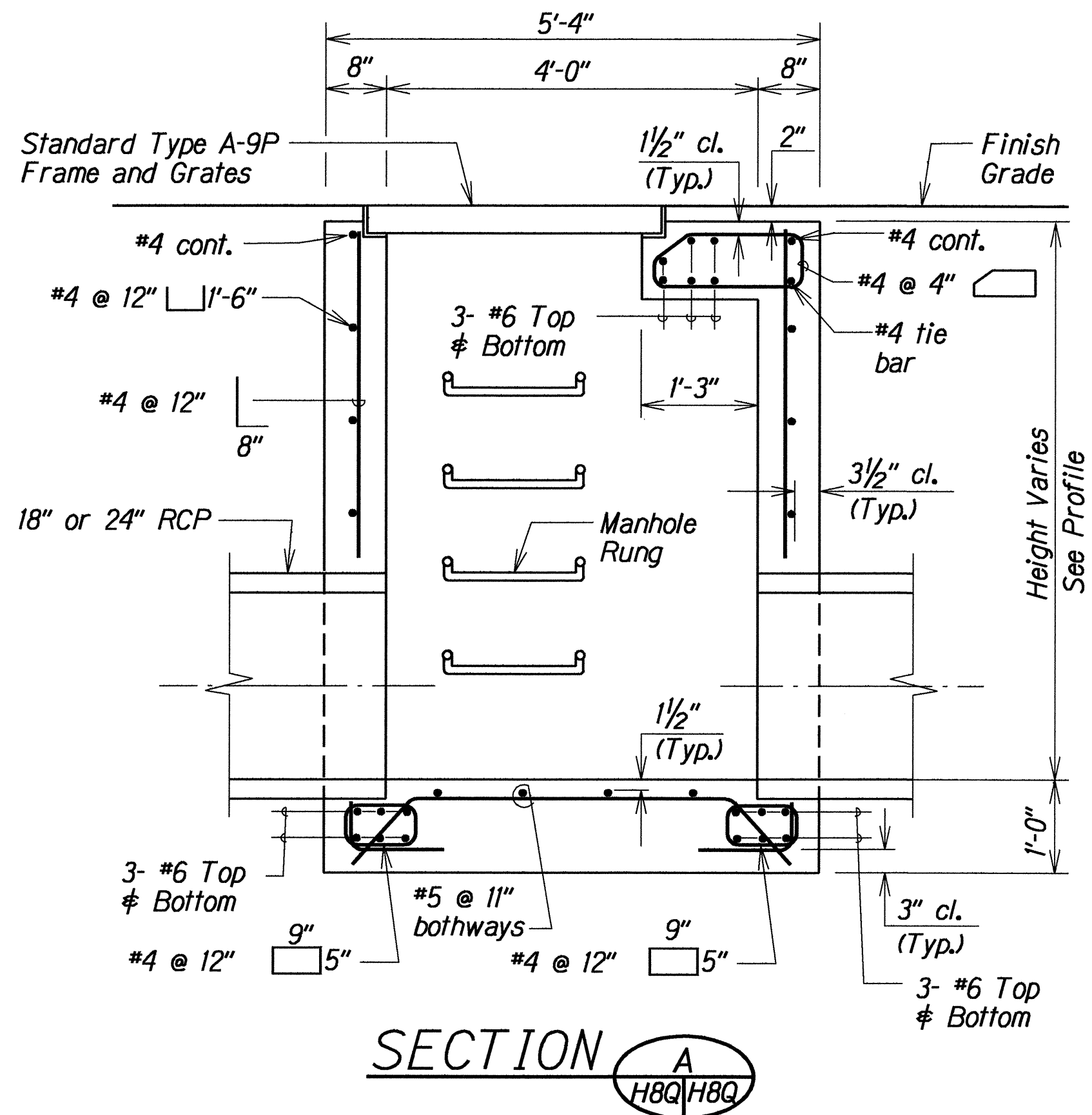
6/6/94	Added Drainage Plan Sheet
DATE	REVISION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	25S-17	46

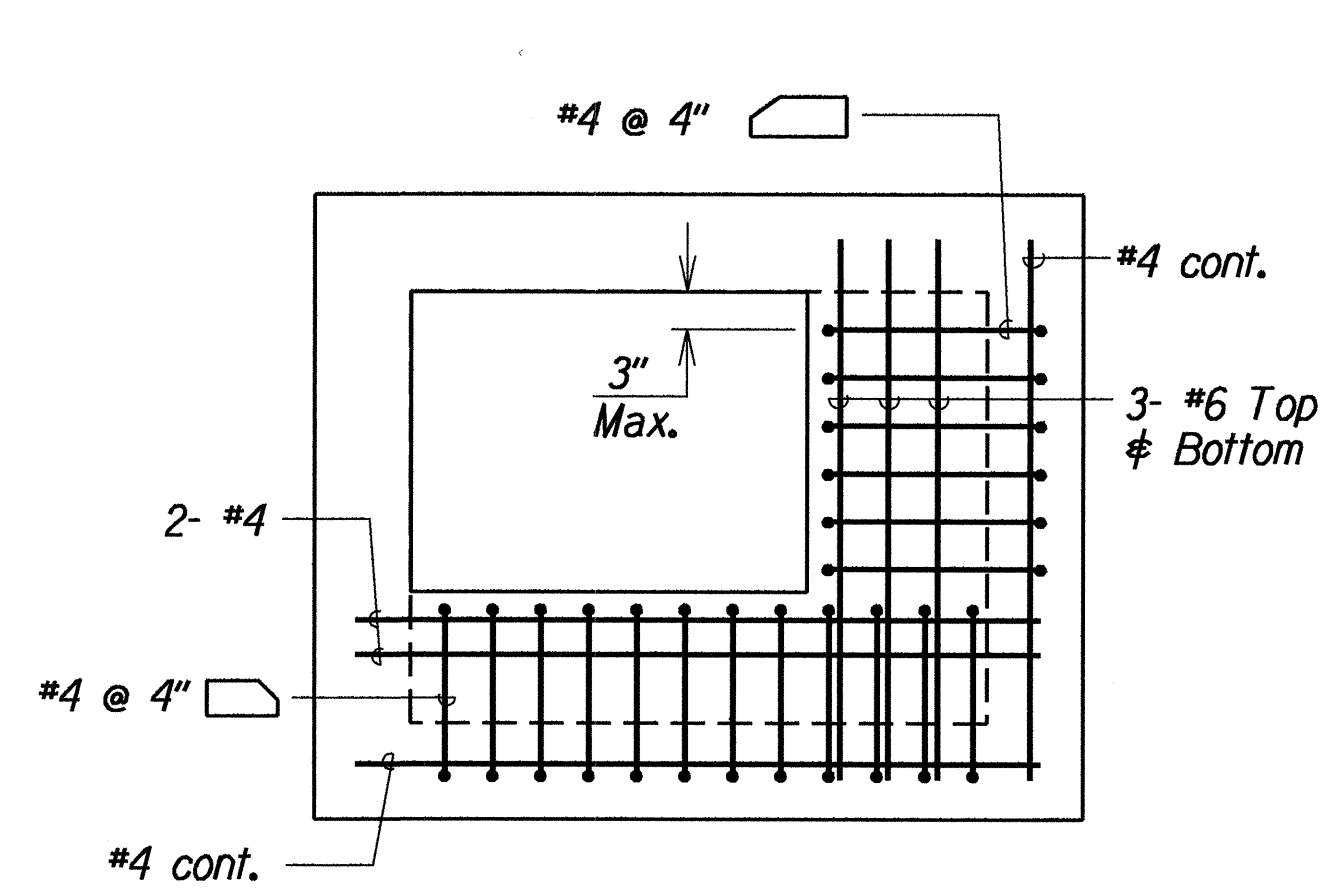


**TYPICAL DETAIL OF A.C. GUTTER
TRANSITION AT TYPE A-9P GDI**

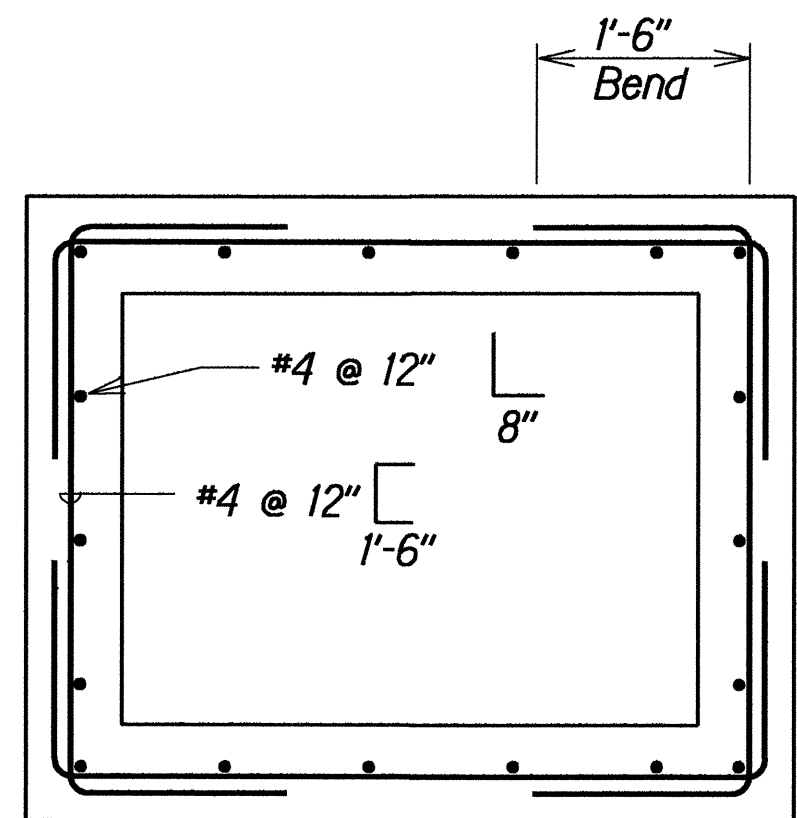
Scale: 3/8"=1'-0"



**ADDED REINFORCING
AT CULVERT OPENING**



**PLAN VIEW OF
TOP SLAB REINFORCING**



**PLAN VIEW OF
WALL REINFORCING**

TYPICAL DETAIL OF TYPE "A9-P" GRATED DROP INLET

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

ORIGINAL PLAN	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
DATE	

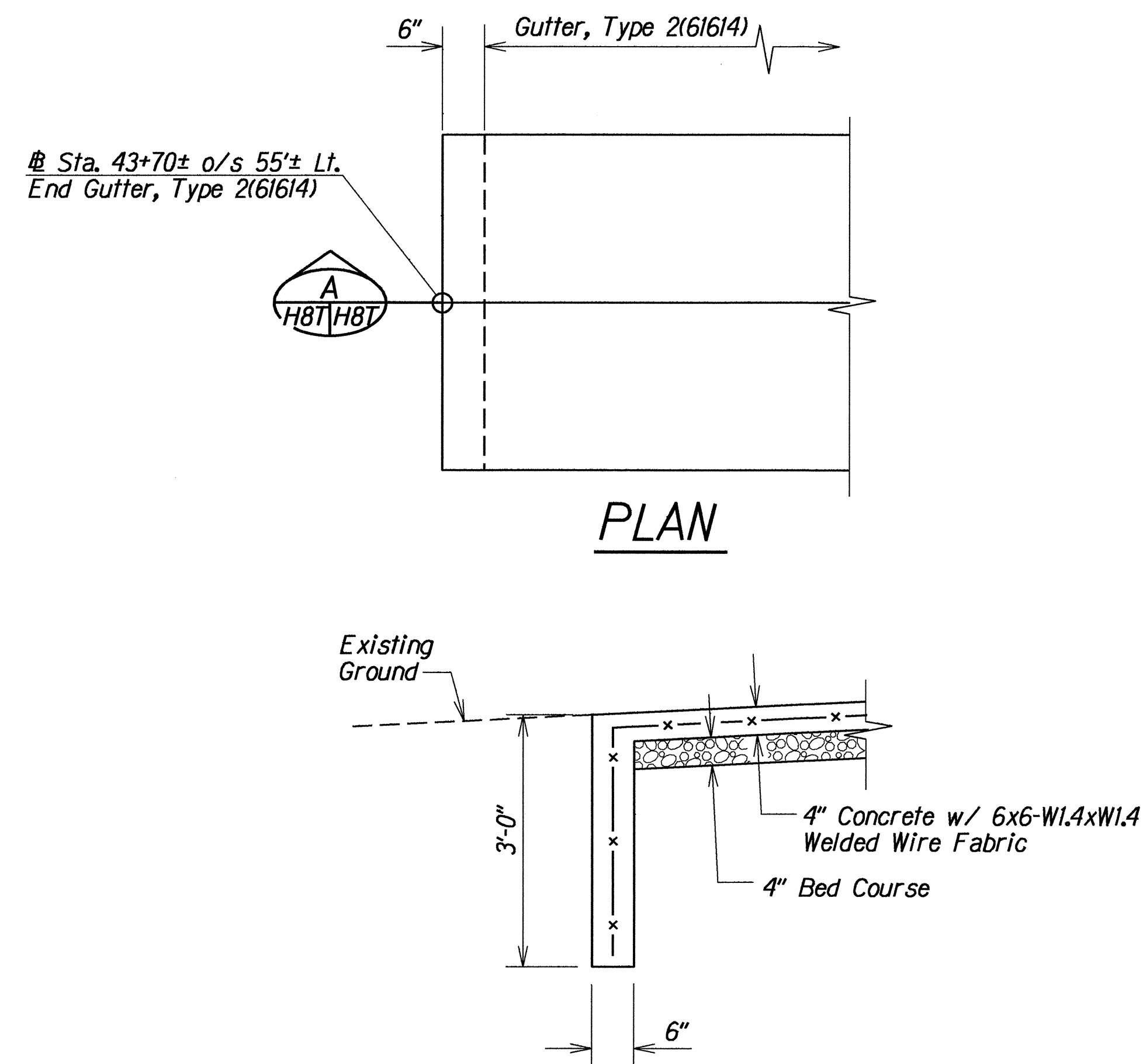
1kbrhd10.dgn

6/6/94	Added Drainage Plan Sheet
DATE	REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
DRAINAGE DETAILS
KAHULUI BEACH ROAD IMPROVEMENTS
Waiehu Beach Road to Kaahumanu Avenue
Project No. 3400A-02-91
Scale: As Shown Date: May 1994
SHEET No. H8Q OF 8 SHEETS

ADD. 25S-17

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	25S-20	46

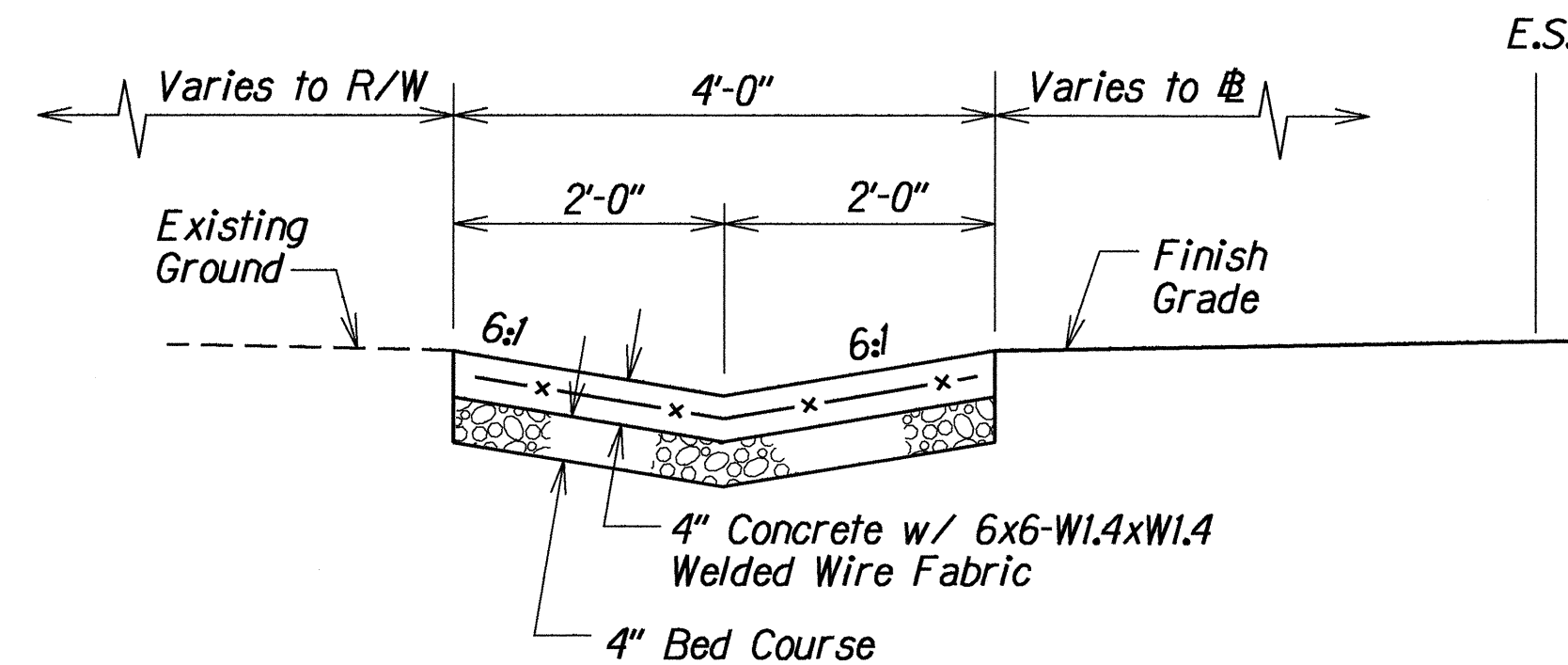


SECTION A
H8T/H8T

DETAIL OF GUTTER, TYPE 2(61614)

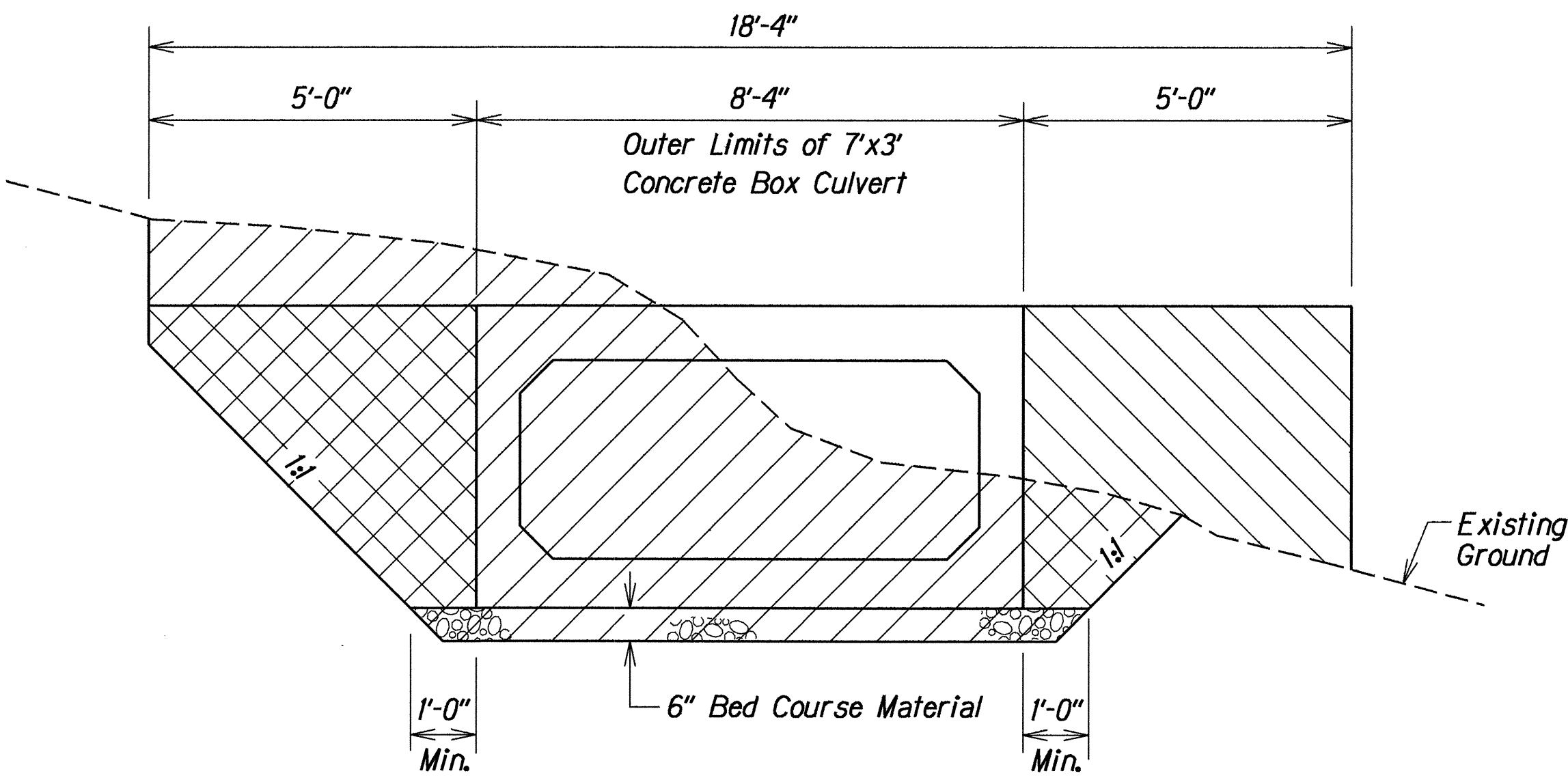
AT # STA. 43+70±

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



TYPICAL DETAIL OF GUTTER, TYPE 2(61614)

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



LEGEND

Limits of Structural Excavation

Limits of Structural Backfill

TYPICAL DETAIL OF STRUCTURAL EXCAVATION

AND BACKFILL PAY LIMITS

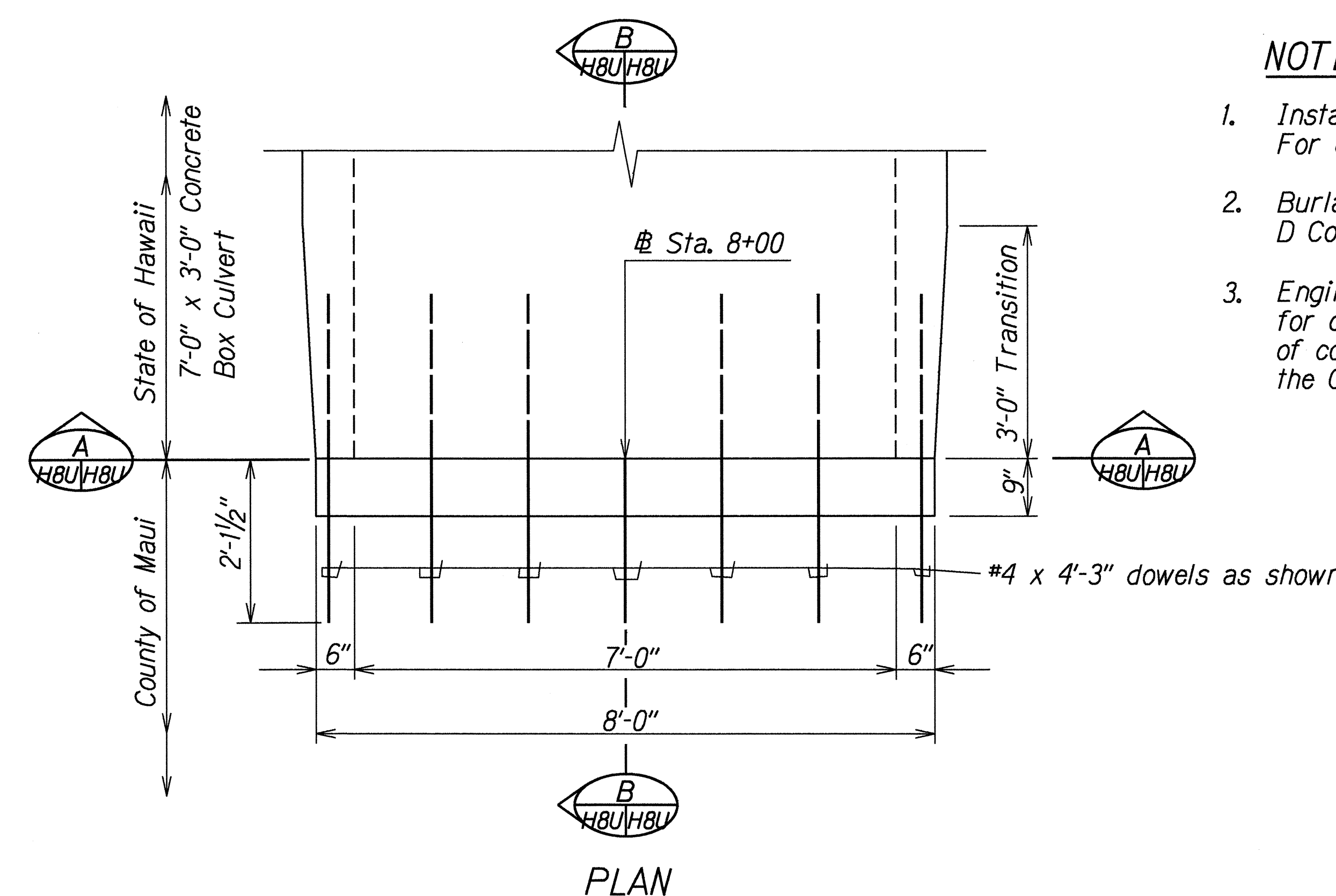
Scale: 1/2"=1'-0"

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
INCHES BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

1/kbrtd102.dgn

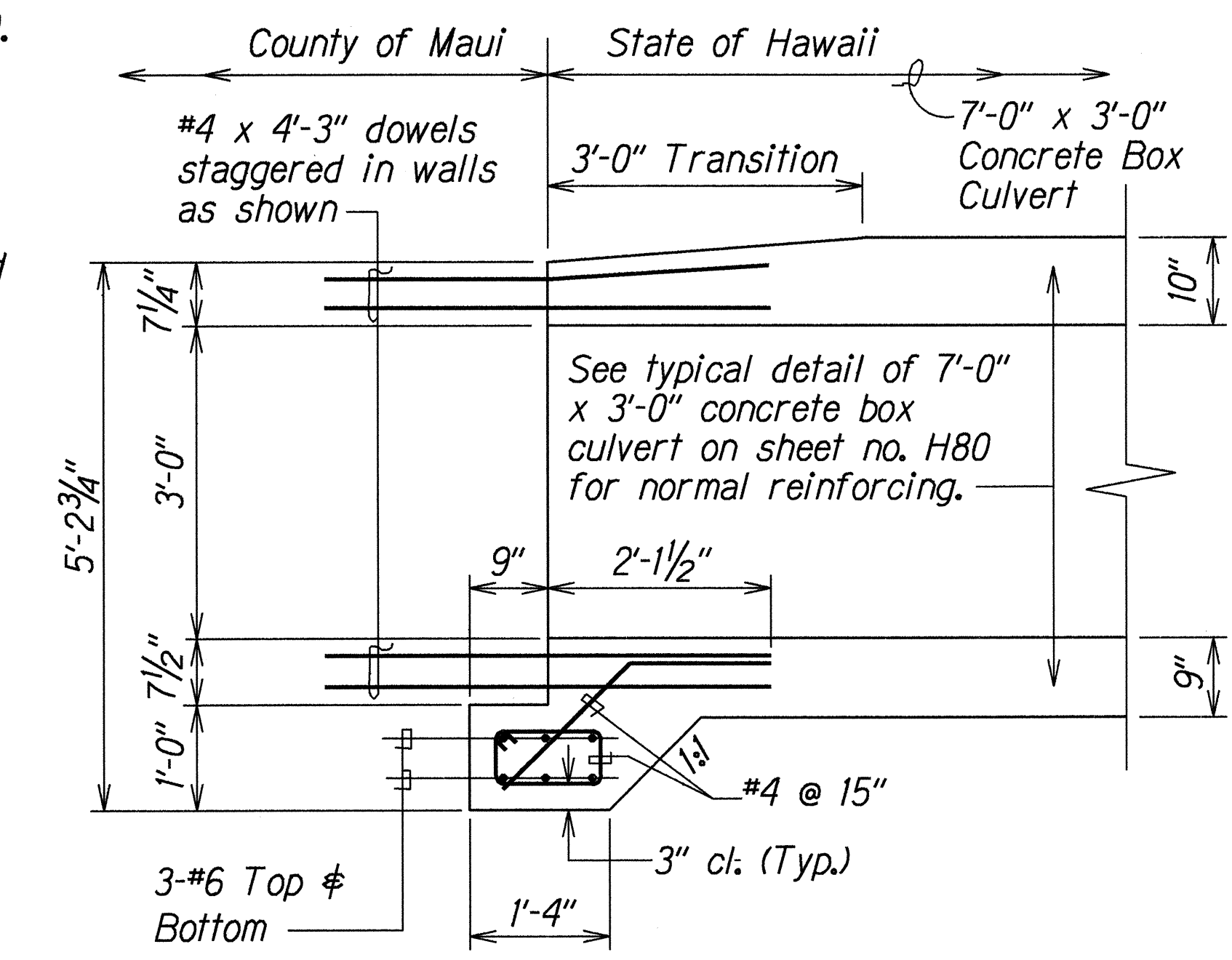
6/6/94	Added Drainage Plan Sheet
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>DRAINAGE DETAILS</u>	
KAHULUI BEACH ROAD IMPROVEMENTS Waiehu Beach Road to Kaahumanu Avenue Project No. 3400A-02-91	
Scale: As Shown	Date: Mar. 1994
SHEET No. H8T OF 8 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	25S-21	46

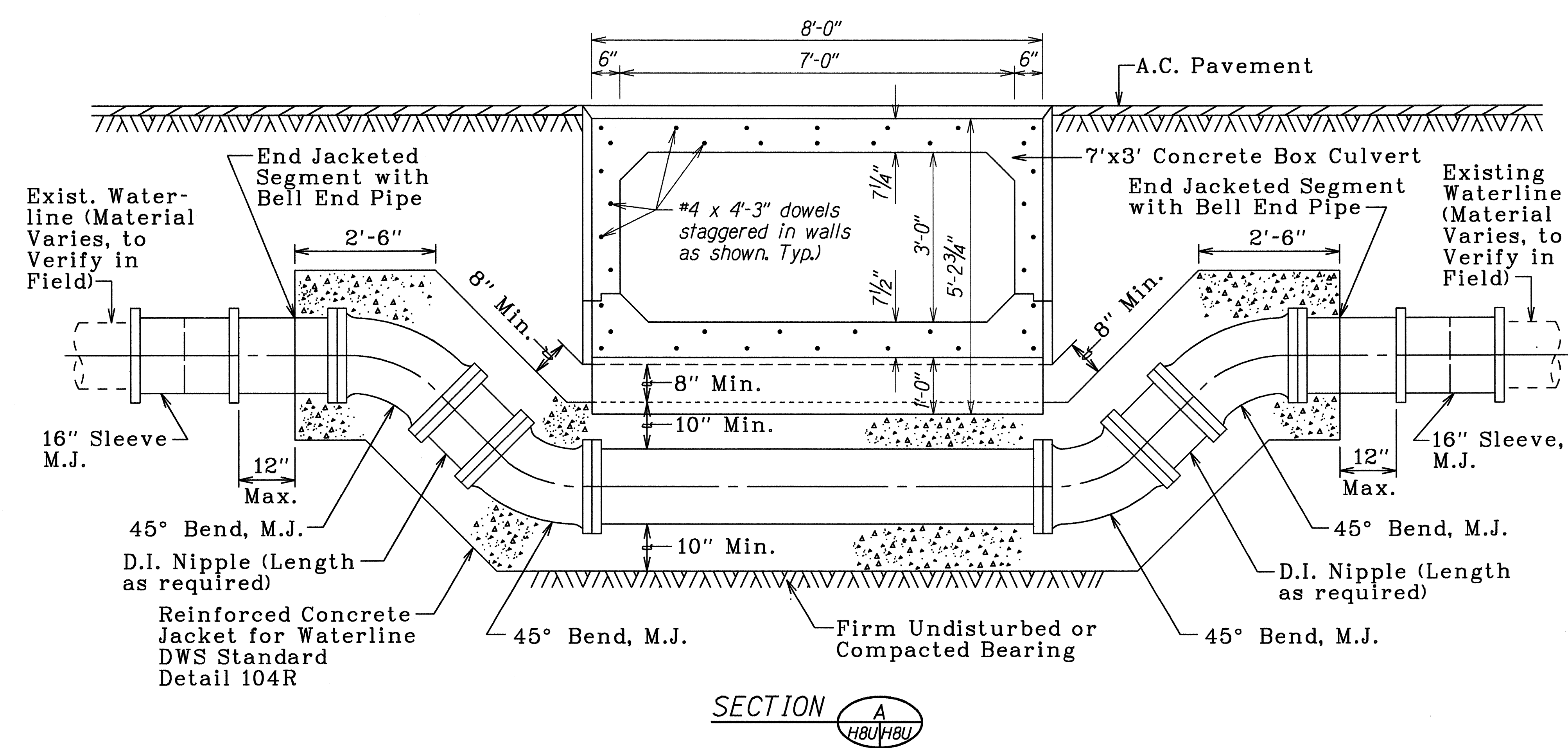


NOTES:

1. Install Construction Joint at Sta. 8+00. For details, see Standard Plan B-1.
2. Burlap wrap dowels and cap with Class D Concrete.
3. Engineer in field will determine the need for capping, depending on the intervals of construction between the State and the County of Maui.



SECTION



NOTES:

1. Contractor shall confirm location, depth and type of any existing utilities crossing prior to commencement of offset work. In the event any discrepancies occur, the Engineer shall be notified immediately. Otherwise any corrective work required shall be performed solely at the contractors expense.
2. Wherever construction joints are required, 6" rubber or neoprene waterstops shall be installed. Waterstop shall be of the type specified and manufactured by the Kirkhill Company, or approved equal.
3. All interior joints and fittings shall be M.J..
4. Horizontal alignment of jacket shall be straight - no deflections allowed.
5. Invert elevations of top bends shall be equal unless otherwise specified.
6. Invert elevations of bottom bends shall be equal unless otherwise specified.

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

KAHULUI BEACH ROAD IMPROVEMENTS
Waiehu Beach Road to Kaahumanu Avenue
Project No. 3400A-02-91

Scale: 3/4" = 1'-0" Date: July 1994

CONNECTION DETAIL OF 7'-0" x 3'-0" CONCRETE BOX CULVERT AT STA. 8+00

DATE	REVISION
7/14/94	Added Drainage Detail Sheet.

SURVEY PLOTTED BY: DATE: July 1994
DRAWN BY: Lennex Cockett and Russell Spio
CHECKED BY: Lennex Cockett and Russell Spio
NOTE: 1. All dimensions are in feet and inches.
2. All materials shall be as specified in the project manual.
3. All work shall be in accordance with the project manual.
4. All work shall be in accordance with the project manual.