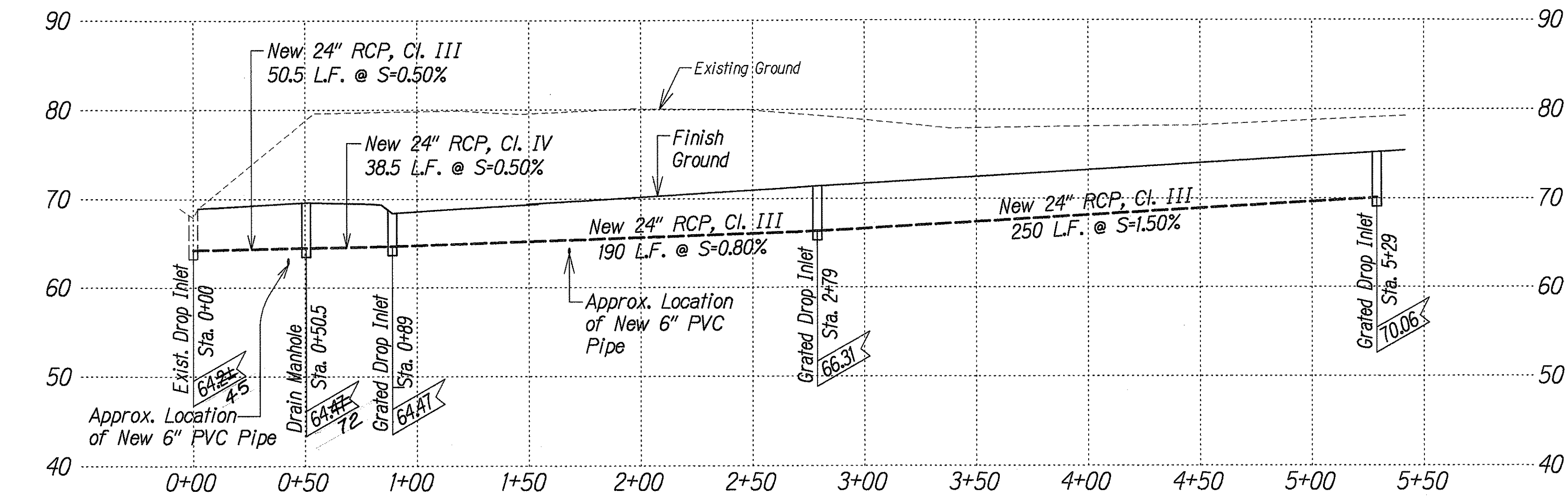


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIEFG-01-96	1998	C.O. 187	344

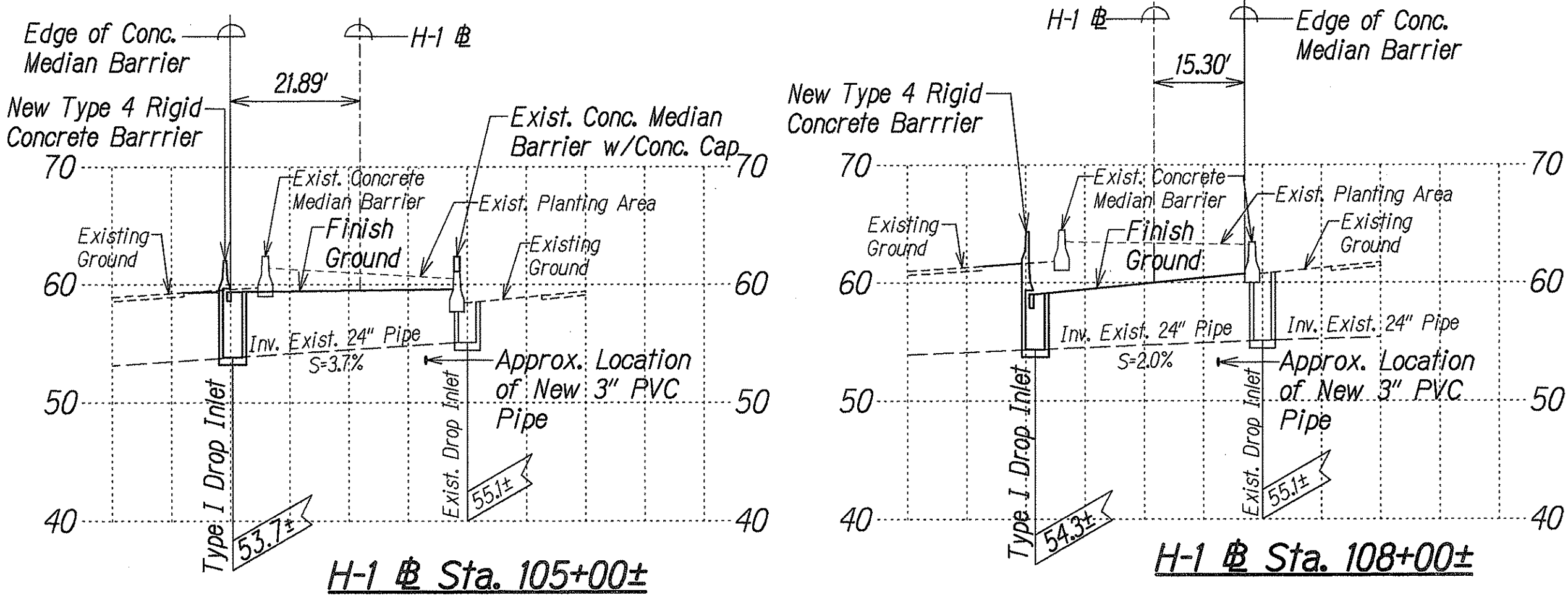
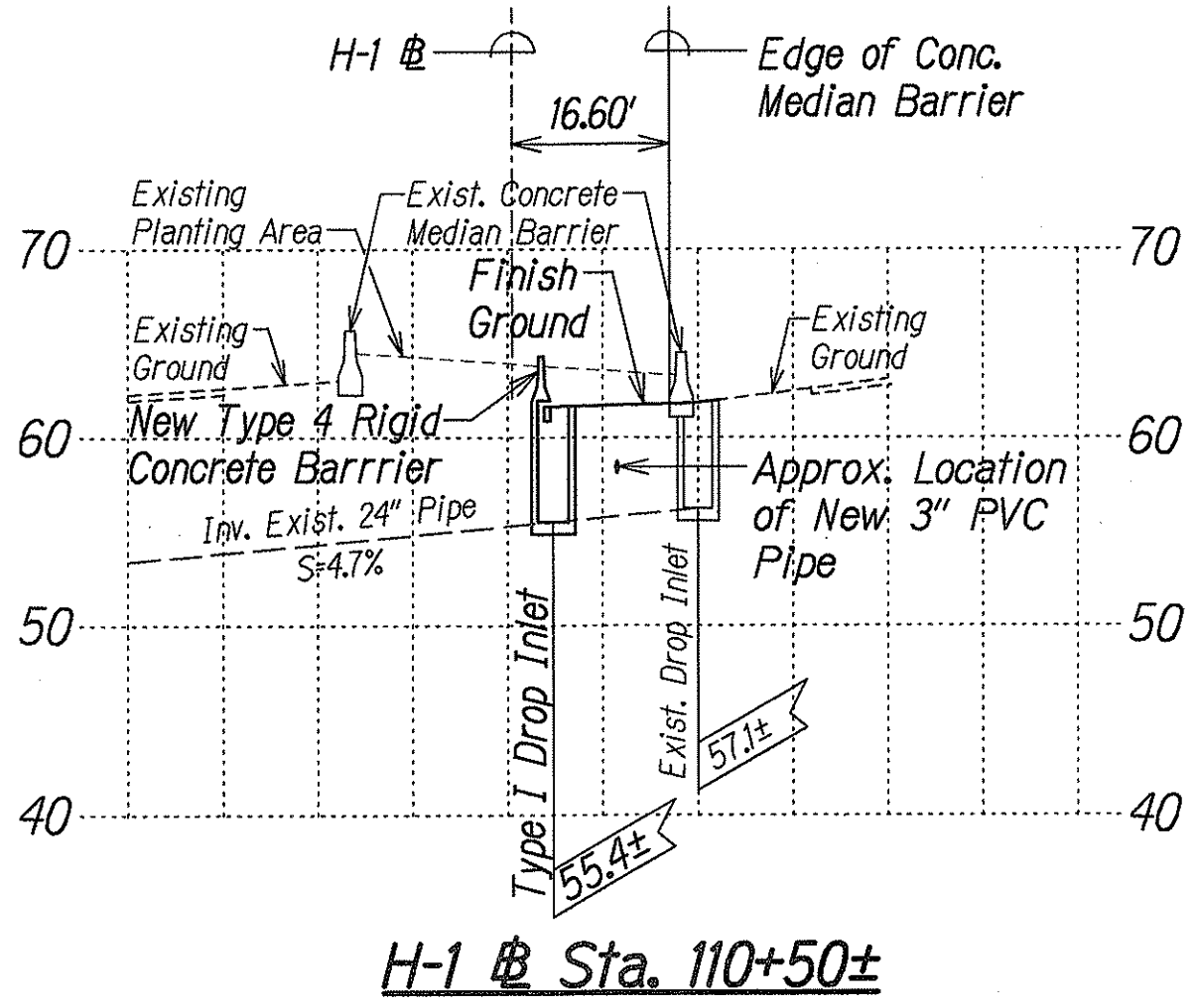


DRAINAGE PROFILE - CROSS OVER NO. 3

Scale: Horiz. 1"=40'
Vert. 1"=10'

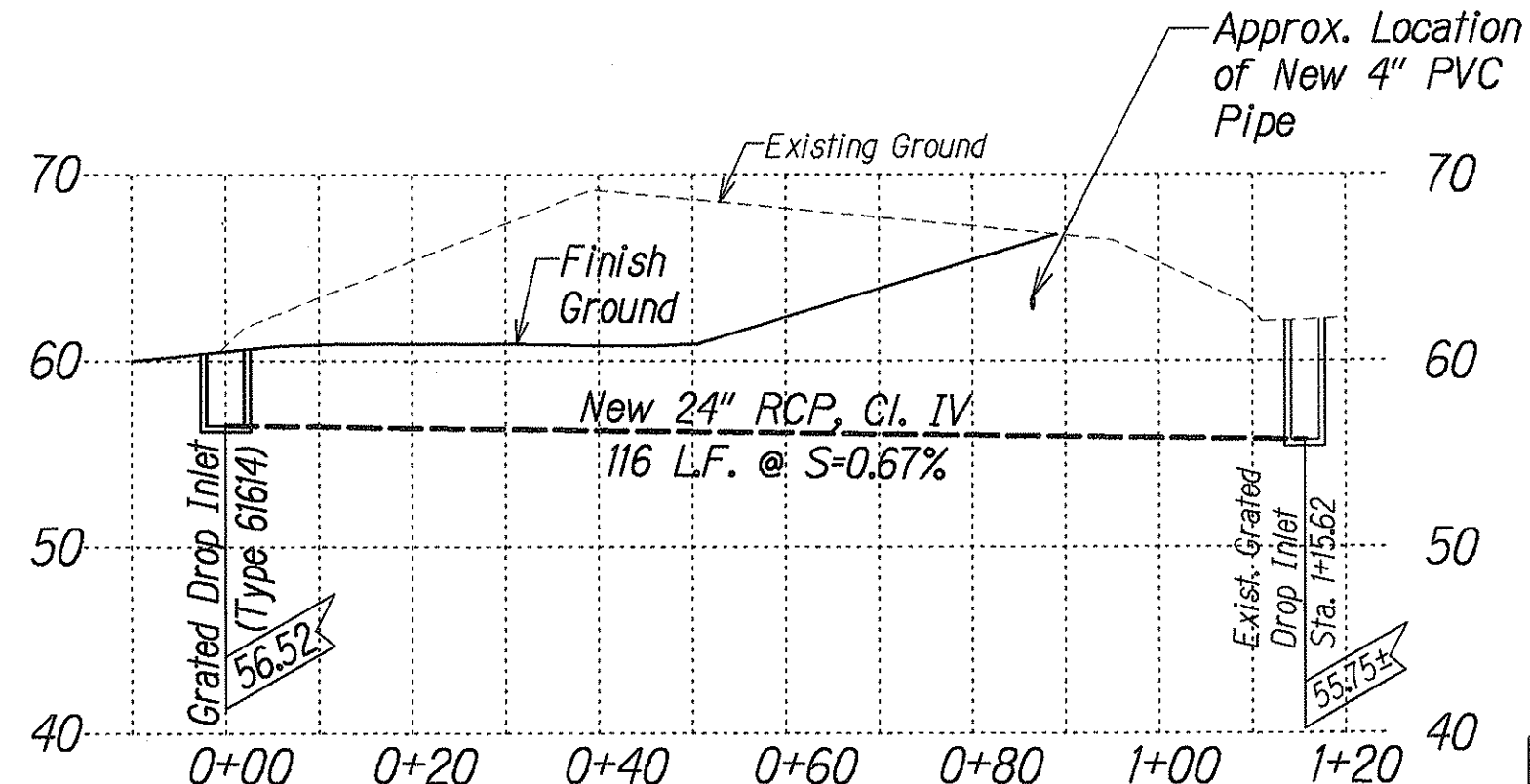
DRAINAGE SUMMARY

ITEM NUMBER		603	603	604	604	604	604	604	605	609	609	609
		5040	5050	5100	5200	5210	5300	5700	0006	2218	2614	2616
UNITS USED		L.F.	L.F.	EA.	EA.	EA.	EA.	EA.	L.F.	L.F.	L.F.	L.F.
BASELINE STATION LOCATION		24-Inch Reinforced Concrete Pipe, Class IV	24-Inch Reinforced Concrete Pipe, Class III	Type I Grated Drop Inlet (5.00 Feet to 5.99 Feet)	Type 61616 Grated Drop Inlet (3.00 Feet to 3.99 Feet)	Type 61616 Grated Drop Inlet (3.00 Feet to 3.99 Feet)	Type 61214 Grated Drop Inlet (3.00 Feet to 5.99 Feet)	Type "A" Storm Drain Manhole (4.00 Feet to 4.99 Feet)	6-Inch Perforated Underdrain Pipe	Concrete Gutter Type 2 (61218)	Concrete Gutter Type 2 (61614)	Concrete Gutter Type 2 (61616)
FROM TO												
CO-3 \$ 0+00 (Lt.)	CO-3 \$ 10+20 (Lt.)									1,020		
CO-3 \$ 7+74 (Rt.)	CO-3 \$ 13+10 (Rt.)											536
CO-3 \$ 10+50 (Lt.)	H-1 I.B. @ Sta. 486+50±	111			1							
CO-3 \$ 13+20 (Rt.)	CO-3 \$ 16+00 (Rt.)										280	
CO-3 \$ 7+52± (Rt.)	CO-3 \$ 7+00 (Rt.)	39						1				
CO-3 \$ 7+00 (Rt.)	CO-3 \$ 6+80 (Lt.)		51				1					
CO-3 \$ 6+80 (Lt.)	CO-3 \$ 4+90 (Lt.)		190				1					
CO-3 \$ 4+90 (Lt.)	CO-3 \$ 2+40 (Lt.)		250				1				280	
CO-4 \$ 7+00 (Lt.)	CO-4 \$ 10+34 (Lt.)											334
CO-4 \$ 7+13 (Lt.)						1						
CO-4 \$ 9+72 (Lt.)						1						
H-1 @ Sta. 105+14				1								
H-1 @ Sta. 107+92				1								
H-1 @ Sta. 110+46	H-1 @ Sta. 108+84			1					163			
TOTALS		150	491	3	1	2	3	1	163	1,020	560	870



DRAINAGE PROFILES - BTV STORAGE SITE

Scale: Horiz. 1"=20'
Vert. 1"=10'



DRAINAGE PROFILE - CROSS OVER NO. 3

(at \$ 10+50± C.O. 3)
Scale: Horiz. 1"=20'
Vert. 1"=10'

3/25/98	Revised Drainline Profile for 24" Drain at Crossover No. 3.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**DRAINAGE PROFILES
AND SUMMARY**

INTERSTATE ROUTE H-1
CONTRAFLOW AND SHOULDER LANE
PROJECT NO. HIEFG-01-96

Scale: As Shown Date: October, 1997

SHEET NO. **D3** OF **3** SHEETS

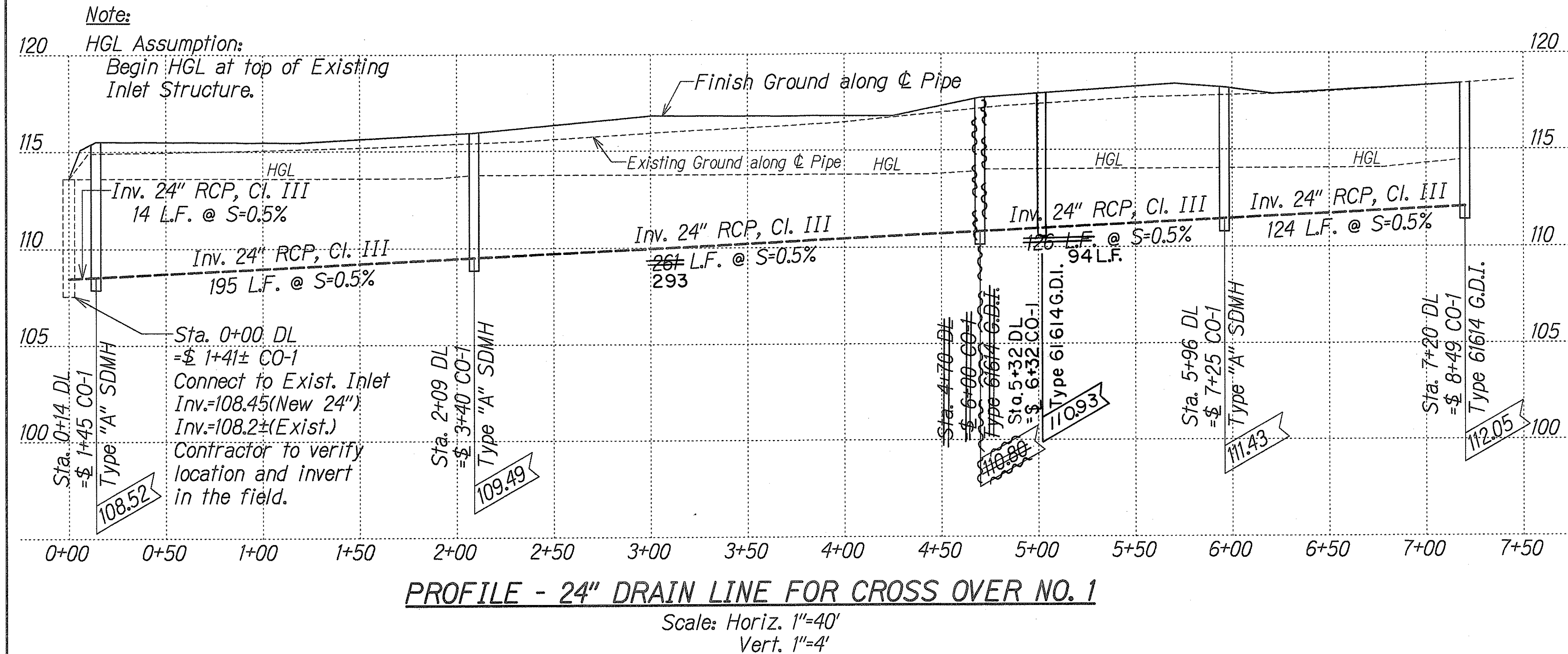
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

[Signature]
DANIEL C. ELFAIN
LICENSED PROFESSIONAL ENGINEER
No. 5448-C
HAWAII, U.S.A.

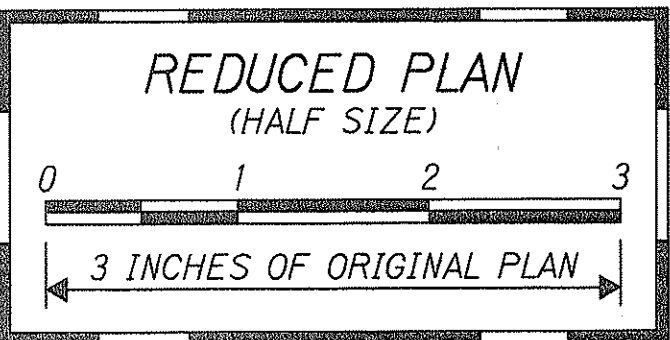
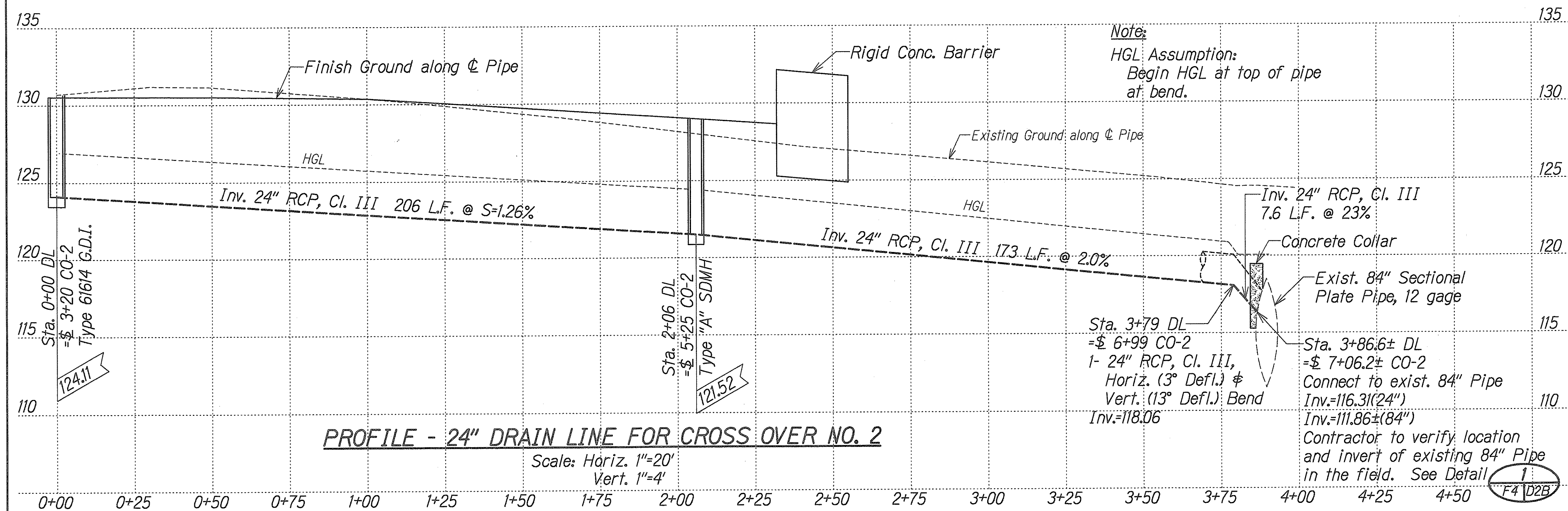
"AS-BUILT"

C.O. 187

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIEFG-01-96	1998	C.O. 187S-1	344



DRAINAGE SUMMARY			
ITEM NUMBER	603	604	604
UNITS USED	L.F.	EA.	EA.
BASELINE STATION LOCATION	24-Inch Reinforced Concrete Pipe, Class III		
	Type 616/4 Grated Drop Inlet (5.00 Feet to 6.99 Feet)		
	Type "A" Storm Drain Manhole (6.00 Feet to 6.99 Feet)		
	FROM	TO	
	CO-1 \$ 1+41 (Lt.)	CO-1 \$ 1+45 (Lt.)	14
	CO-1 \$ 1+45 (Lt.)	CO-1 \$ 3+40 (Lt.)	195
	CO-1 \$ 3+40 (Lt.)	CO-1 \$ 6+00 (Rt.)	261
	CO-1 \$ 6+00 (Rt.)	CO-1 \$ 7+25 (Rt.)	126
	CO-1 \$ 7+25 (Rt.)	CO-1 \$ 8+49 (Rt.)	124
	CO-2 \$ 3+20 (Lt.)	CO-2 \$ 4+80 (Rt.)	206
	CO-2 \$ 5+25 (Rt.)	CO-2 \$ 7+06.2 (Rt.)	181
TOTALS	1107	3	4



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

Derrick C. Elfaan
DORR, INC.
200 PARK ENGINEERING

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DRAINAGE PROFILES AND SUMMARY	
INTERSTATE ROUTE H-1 CONTRAFLOW AND SHOULDER LANE PROJECT NO. HIEFG-01-96	
Scale: As Shown	Date: October, 1997
SHEET No. D3A OF 3 SHEETS	

4/25/98	Revised 24" Drain Line for C.O. No. 2
2/26/98	Added Sheet
DATE	REVISION

"AS-BUILT"

C.O. 187S-1