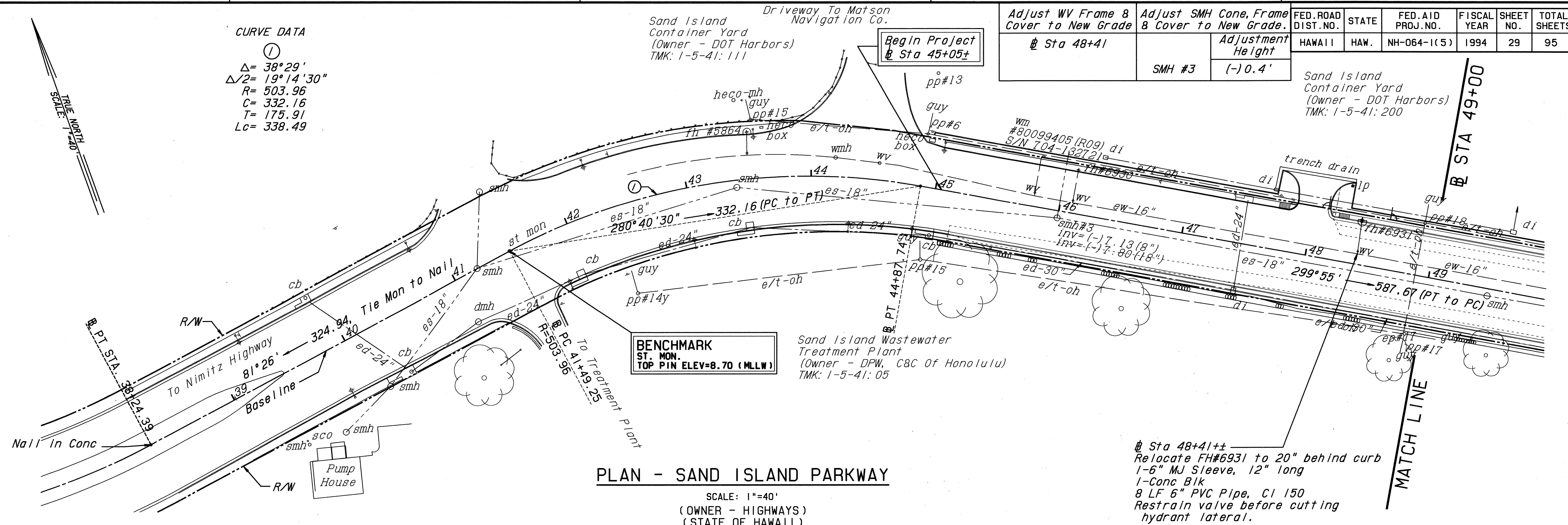
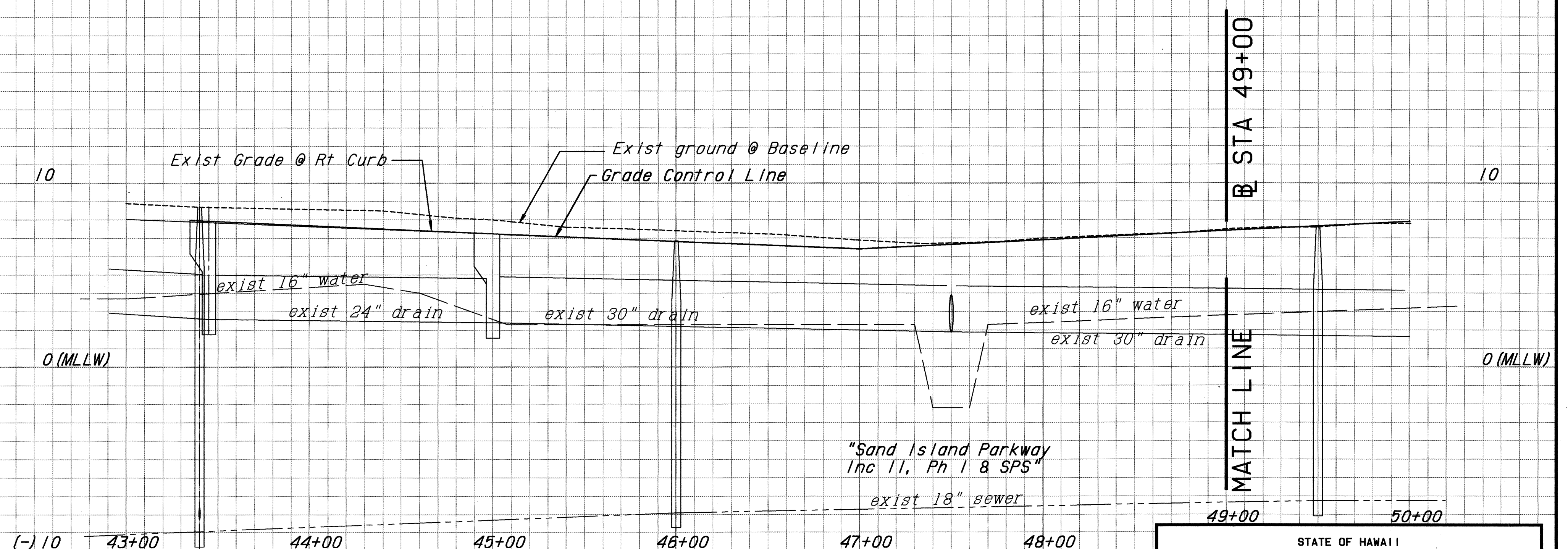


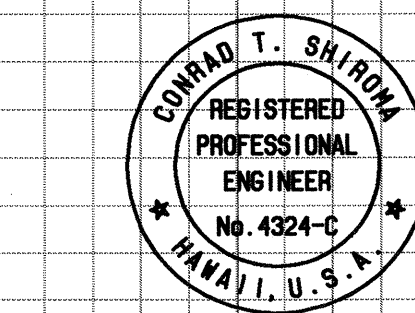


- NOTE: 1) CONTRACTOR TO ADJUST WATER VALVE BOX FRAMES & COVERS, WATER MANHOLE FRAMES & COVERS, AIR RELIEF VALVE BOX FRAMES & COVERS AND WATER METER BOXES TO NEW FINISH GRADE. COORDINATE WORK WITH BOARD OF WATER SUPPLY.
- 2) CONTRACTOR TO ADJUST ALL SEWER MANHOLES TO NEW FINISH GRADE. FOR RAISING SMH<3", SEE STD DETAIL S-25. FOR RAISING SMH>3", RECONSTRUCT SMH FROM BELOW CONE SECTION. FOR LOWERING SMH, RECONSTRUCT SMH FROM BELOW CONE SECTION. COORDINATE WORK WITH DIV. OF WASTEWATER MGMT. INSPECTOR. SEE UTILITY DETAILS SHT U6.
- 3) ELEVATIONS ARE REFERRED TO MEAN LOWER LOW WATER (MLLW).



APPROVED: *[Signature]* 7/16/93
 CHIEF, DIV. OF WASTEWATER MANAGEMENT
 DEPARTMENT OF PUBLIC WORKS
 CITY & COUNTY OF HONOLULU

APPROVED: *[Signature]* 7/16/93
 CHIEF, PLANNING & ENGINEERING
 BOARD OF WATER SUPPLY
 CITY & COUNTY OF HONOLULU



THIS WORK WAS PREPARED BY
 ME OR UNDER MY SUPERVISION.
[Signature]
 CALVIN KIM & ASSOC., INC.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

UTILITY PLAN & PROFILE
STA 45+00 TO 49+00
 SAND ISLAND PARKWAY
 TREATMENT PLANT TO PARK ENTRANCE
 PROJ. NO. NH-064-1(5)

SCALE: AS NOTED
 DATE: SEPT 1993
SHEET No. 11 OF 6 SHEETS

ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-064-1(5)	1994	30	95

CURVE DATA

②
 $\Delta = 15^\circ 12'$
 $\Delta/2 = 7^\circ 36'$
 $R = 1,675.88$
 $C = 443.29$
 $T = 223.61$
 $Lc = 444.59$

Adjust ARV frame 8 cover to new grade	Adjust WV frame 8 cover to new grade	Adjust SMH frame 8 cover to new grade	Adjust SMH Cone, Frame 8 Cover to New Grade
Sta 53+08	Sta 50+91 Sta 51+22 Sta 51+70 Sta 55+91	Adjustment Height SMH #4 0.2'± SMH #7 0.2'±	Adjustment Height SMH #5 0.5'± SMH #6 0.5'±
Adjust WMH frame 8 cover to new grade			
Sta 52+29(3)			

Sand Island Container Yard
 Owner - DOT Harbors
 TMK: 1-5-41:200

Sta 55+91±
 Relocate FH#6934
 20" behind curb
 1-6" MJ sleeve, 12" long
 1-Conc blk
 8-LF 6" PVC Pipe, CI 52
 Restrain valve prior to cutting hydrant lateral.

Sta 58+38±
 Relocate FH#6935
 20" behind curb
 1-6" MJ sleeve, 12" long
 1-Conc blk
 8-LF 6" PVC Pipe, CI 150
 Remove C.I. valve & construct Type "C" WMH over 6" GV
 Restrain valve prior to cutting hydrant lateral.

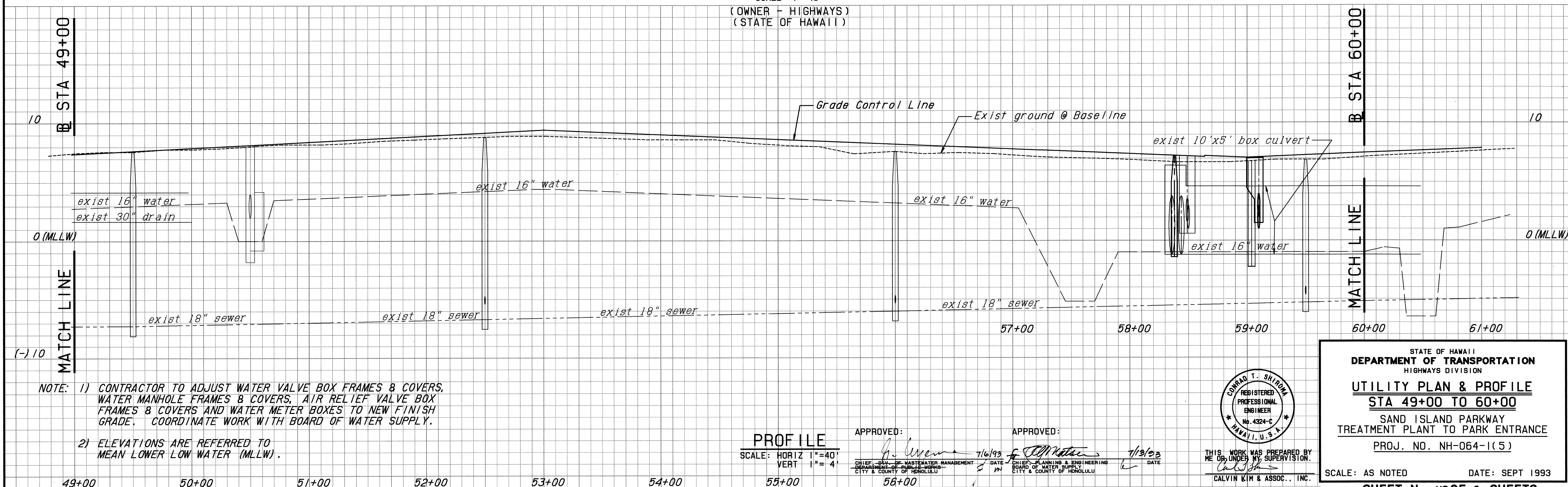
smh#7
 Inv = (-) 4.43 (8")
 Inv = (-) 5.30 (18")

smh#6
 Inv = (-) 5.13 (8")
 Inv = (-) 5.80 (18")

smh#5
 Inv = (-) 5.67 (8")
 Inv = (-) 6.50 (18")

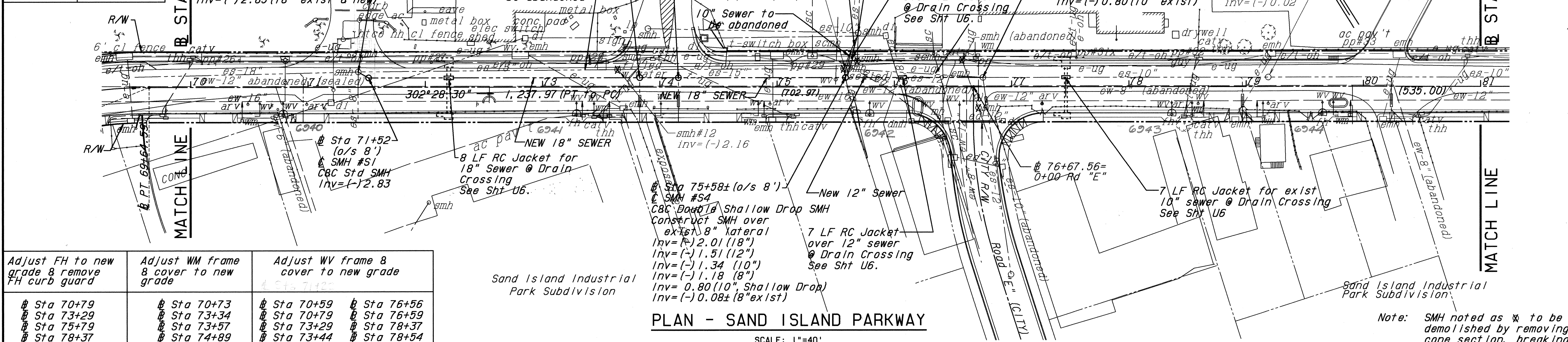
PLAN - SAND ISLAND PARKWAY

SCALE: 1"=40'
 (OWNER - HIGHWAYS)
 (STATE OF HAWAII)



Adjust SMH frame 8 cover to new grade		Adjust ARV frame 8 Cover to new grade	
	Adj. Ht.	Sta 70+49	Sta 77+26
SMH #P1	0.1'±	Sta 70+99	Sta 78+59
SMH #P2	0.2'±	Sta 74+95	Sta 79+19
Adjust SMH Cone, Frame 8 Cover to New Grade			
	Adj. Ht.		
SMH #11	(-)0.3'±		

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-064-1(5)	1994	32	95

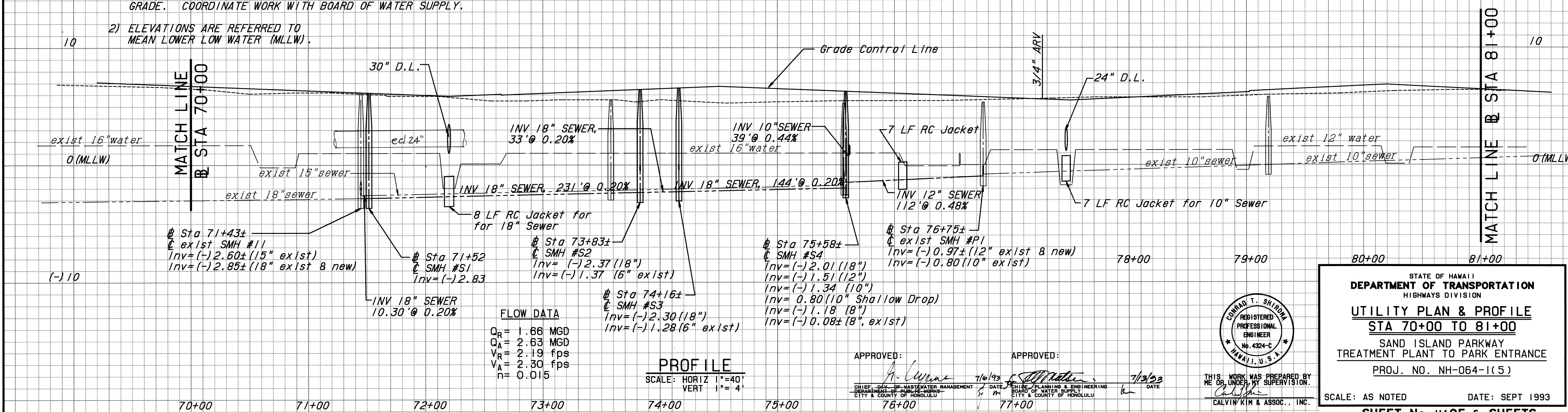


Adjust FH to new grade & remove FH curb guard	Adjust WM frame 8 cover to new grade	Adjust WV frame 8 cover to new grade	
Sta 70+79	Sta 70+73	Sta 70+59	Sta 76+56
Sta 73+29	Sta 73+34	Sta 70+79	Sta 76+59
Sta 75+79	Sta 73+57	Sta 73+29	Sta 78+37
Sta 78+37	Sta 74+89	Sta 73+44	Sta 78+54
Sta 79+65	Sta 78+64	Sta 74+01	Sta 79+14
	Sta 79+09	Sta 74+84	Sta 79+65
	Sta 79+89	Sta 75+79	Sta 79+74

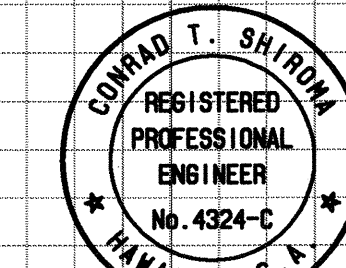
NOTE: 1) CONTRACTOR TO ADJUST WATER VALVE BOX FRAMES & COVERS, WATER MANHOLE FRAMES & COVERS, AIR RELIEF VALVE BOX FRAMES & COVERS AND WATER METER BOXES TO NEW FINISH GRADE. COORDINATE WORK WITH BOARD OF WATER SUPPLY.

2) ELEVATIONS ARE REFERRED TO MEAN LOWER LOW WATER (MLLW).

Note: SMH noted as * to be demolished by removing cone section, breaking bottom slab and back filling w/ #2 rock. Frame and covers to be cleaned, painted and reused at new SMH locations.



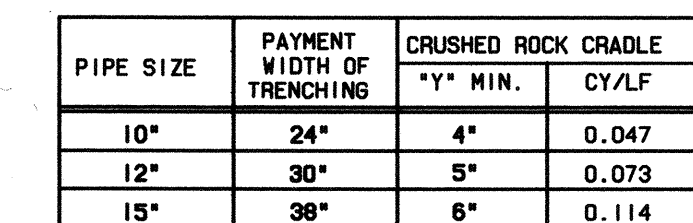
DATE	...
DESIGNED BY	...
TRACED BY	...
QUANTITIES BY	...
CHECKED BY	...
ORIGINAL PLAN	...
NO.	...



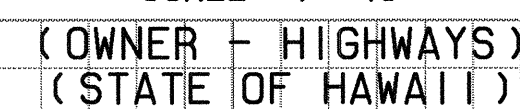
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
UTILITY PLAN & PROFILE
STA 70+00 TO 81+00
SAND ISLAND PARKWAY
TREATMENT PLANT TO PARK ENTRANCE
PROJ. NO. NH-064-1(5)
SCALE: AS NOTED
DATE: SEPT 1993
SHEET No. U4 OF 6 SHEETS

AS-BUILT

NOTE:
PAYMENT WIDTH OF CRADLE
SHALL BE PAYMENT TRENCH WIDTH



NOT TO SCALE

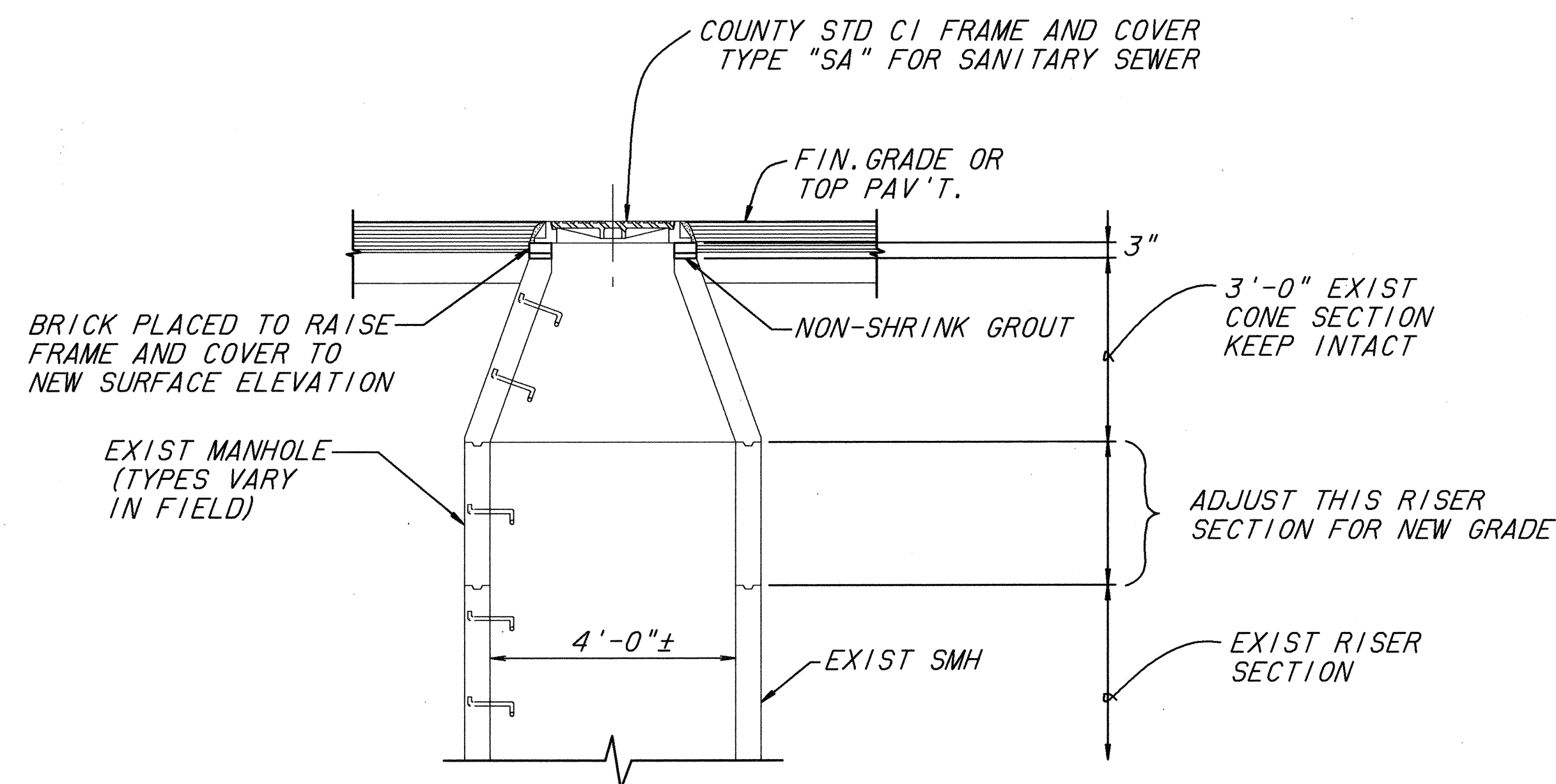


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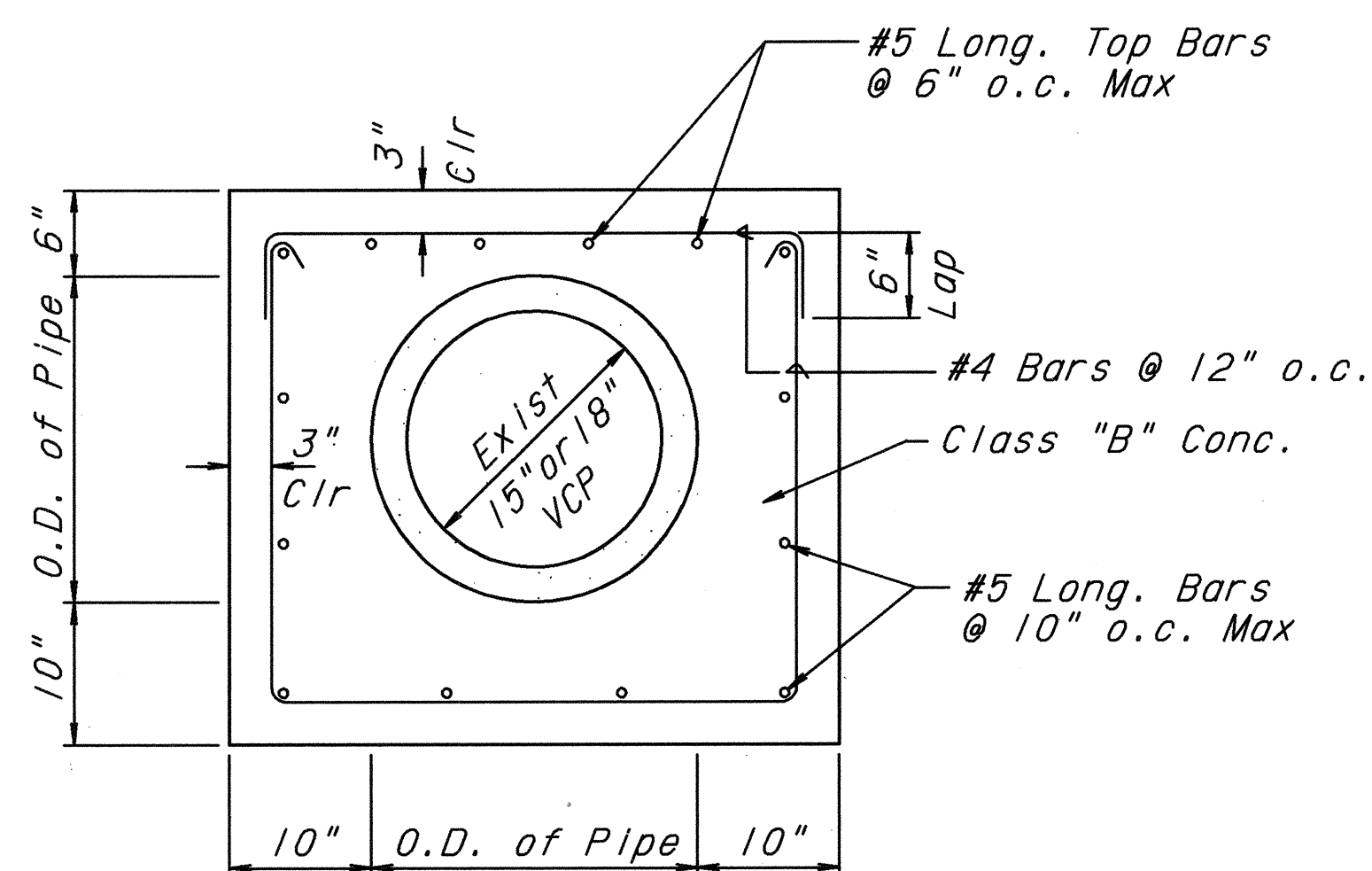
33

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-064-1(5)	1994	34	95



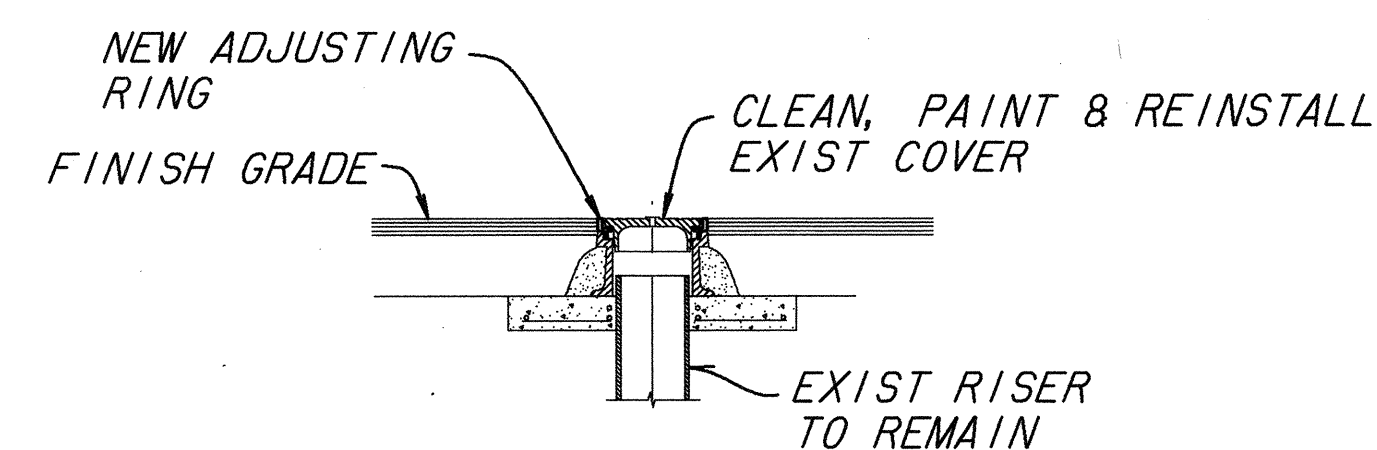
DETAIL - SMH RECONSTRUCTION
(For Grade Adjustment Exceeding 3 Inches)

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



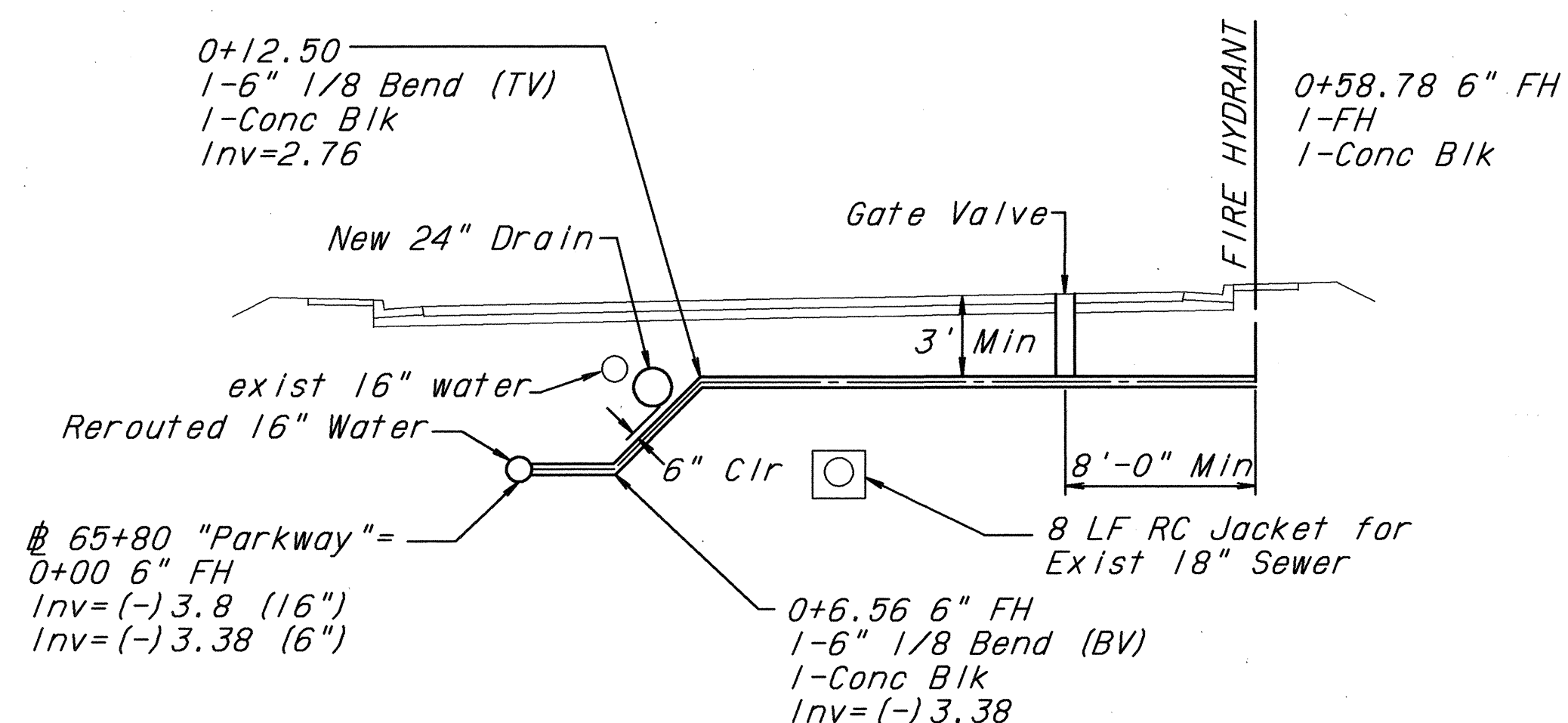
REINF CONC JACKET FOR
15" AND 18" VCP SEWER

SCALE: 1"=1'-0"



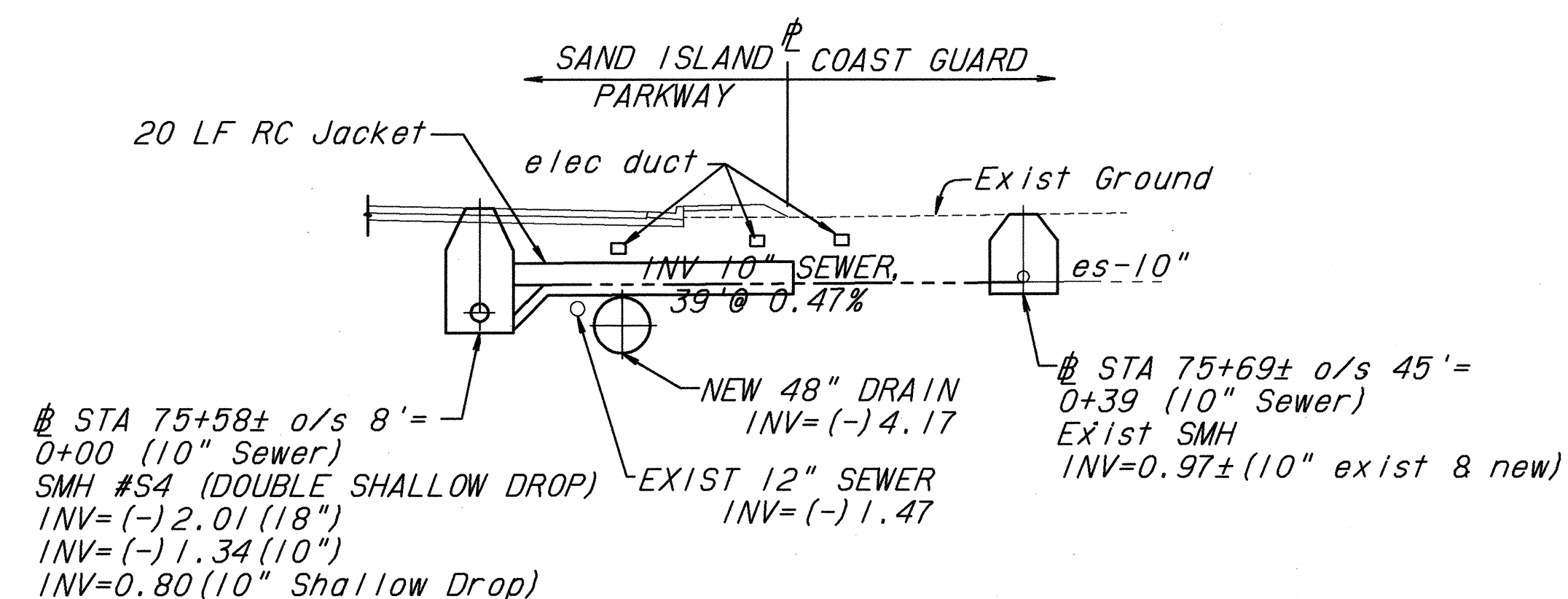
WATER VALVE COVER ADJUSTMENT

NOT TO SCALE



PROFILE - STA 65+80 FH WATER LINE

SCALE: 1" = 10'



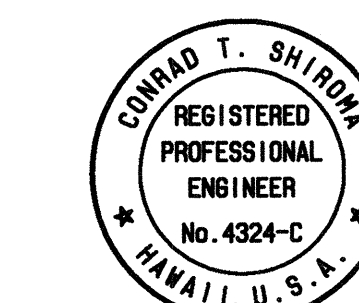
PROFILE - STA 75+58± 10" SEWER LATERAL

SCALE: 1" = 10'

ORIGINAL PLAN	DATE
NOTED BY	
DESIGNED BY	
CHECKED BY	
NO.	

APPROVED: *[Signature]* 7/10/93
CHIEF, SAND ISLAND WASTEWATER MANAGEMENT
CITY & COUNTY OF HONOLULU

APPROVED: *[Signature]* 7/13/93
CHIEF, PLANNING & ENGINEERING
CITY & COUNTY OF HONOLULU



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
[Signature]
CALVIN KIM & ASSOC., INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UTILITY DETAILS

SAND ISLAND PARKWAY
TREATMENT PLANT TO PARK ENTRANCE
PROJ. NO. NH-064-1(5)

SCALE: AS NOTED DATE: SEPT 1993

SHEET No. 06 OF 6 SHEETS