

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RS-0270(10)	1985	3	28

Sta. 448 + ⁴¹~~40~~ %s 28' Lt.
Install: 1-8" 1/8 C.I. Bend, M.J. w/R.G.
1- Conc. BIK.

Sta. 448 + ³⁸~~35~~ %s 28' Lt.
Install: 1-1" A.R.V. & V.B.
Sta. 448 + 35 %s 28' Lt.
Service Lateral Connection

Sta. 448 + ³³~~32~~ %s 28' Lt.
Install: 1-8" 1/8 C.I. Bend, M.J. w/R.G.
1- Conc. BIK.
Sta. 448 + ³²~~31~~ %s 28' Lt.
Install: 1-8" 1/8 C.I. Bend, M.J. w/R.G.
1- Conc. BIK.

Note: Install 2-8" solid body M.J. sleeves 12" long, 1-ea. 3ft. from each edge of conc. jacket beneath culvert.

NOTES:

For guard rail post layout control, see Sht. 10

Reconstruct reinforced conc. sidewalk (approx. 12 s.y.) & curb approaches to match exist. and as directed by the Engineer. See Typ. Sect., Sht. #4.

Easement for Drainage Purposes

Install: 1-4" Flap valve, end of B.O. line
4" Blow-Off Line See Profile, Sht. no. 8

Blow-Off Assembly
Sta. 447 + 91 %s 28' Lt.
Install: 1-8x4 B.O. Tee, M.J.
1-4" G.V., M.J., & V.B. w/ Valve
Wrench Extension for 2x2 Nut
95 L.F. - 4" D.I.P., Cl. 52
1- Conc. BIK.

Mat'l's for Conn.:
7 L.F. - 4" D.I.P., Cl. 52
1-4" sleeve, 12" long
Sta. 447 + 75 %s 28' Lt.
Install: 1-1" A.R.V. & V.B.

Sta. 447 + 88 %s 28' Lt.
Install: 1-8" 1/8 C.I. Bend, M.J. w/R.G.
1- Conc. BIK.

Sta. 447 + 83 %s 28' Lt.
Install: 1-8" 1/8 C.I. Bend, M.J. w/R.G.
1- Conc. BIK.
Sta. 447 + 73 %s 28' Lt.
Install: 1-8" 1/8 C.I. Bend, M.J. w/R.G.
1- Conc. BIK.

Sta. 447 + 79 %s 28' Lt.
Service Lateral Connection

Demolish & remove approx. 40 L.F., 2.5' high hollow tile wall within highway R/W.

Reconstruct 8"x8"x16" hollow tile & wall to match exist. as directed by the engineer (approx. 40 L.F.). For detail, see Plan Sht. #4

Install W-Beam End section (rounded)

Parabolic rounding guard rail, type 3 w/rubrail (6'-3")

Exist. S.P. #2 to be relocated behind guard rail by others (location to be determined by the engineer)

Guard Rail, Type 3 (18'-9")

Parabolic rounding Guard Rail, Type 3 (6'-3")

Install W-Beam end section (rounded)

TYPICAL WATERLINE TIE-IN

Provide new service connection & relocate exist. w.m. & box to new location (to be determined by the D.W.S. engineer). Contractor shall also reconnect exist. customer line to new meter location.

For Waterline Tie-In See Above - Relocated 8" water main, for profile see Sht. #4

Remove & stockpile exist. G.R. & posts as directed by the Engineer

Saw cut

Guard Rail Type 3 (43'-9")

Pav't to be restored (approx. 130 s.y.) see typ. section, plan sht. no. 4

Saw cut

Guard Rail, Type 3 w/rubrail (6'-3")

Provide 25 L.F. reinf. conc. waterline jacket, see Det. Sht. #4

Exist. water service lat's. Install new service lat's & connect to customer line. (See Note above).

Provide temporary support or brace for T.P. #2 while guy anchor is disturbed during excavation operations.

For Waterline Tie-In See Above

70' R/W

TRUE NORTH
SCALE: 1" = 10'

NOTE:

Existing culverts to be replaced not shown on this plan for clarity

Sta. 448 + ⁵⁰~~49~~ (±) W8 Connection

Install: 1-6x4 C.I. Wye, M.J. w/ Ret. Gland
2-4" 1/8 C.I. Bend, M.J. w/R.G.
1-6" 1/8 C.I. Bend, M.J. w/R.G.
1-8x6 C.I. Reducer, M.J. w/R.G.
4- Conc. BIKs.

Mat'l's for Conn.:

1-4" Solid Body Sleeve 12" long, M.J. w/R.G.
1-6" Solid Body Sleeve 12" long, M.J. w/R.G.
7 L.F. - 4" D.I.P., Cl. 52
7 L.F. - 6" D.I.P., Cl. 52
7 L.F. - 8" D.I.P., Cl. 52

Temp. for Testing:

1-8" M.J. Cap w/ 2 1/2" C.O.
1- Conc. BIK.

Install W-Beam End section (rounded)

10' Rad. rounding

Pave with new A.C. Pav't Mix V (approx. 32 s.y.) see typical section, Plan Sht. #4

Easement for Drainage Purposes

Sta. 447 + 58 (±) W8 Connection

Install: 1-6x4 C.I. Wye, M.J. w/ Ret. Gland
2-4" 1/8 C.I. Bend, M.J. w/R.G.
1-6" 1/8 C.I. Bend, M.J. w/R.G.
1-8x6 C.I. Reducer, M.J. w/R.G.
4- Conc. BIKs.

Mat'l's for Conn.:

1-4" Solid Body Sleeve 12" long, M.J. w/R.G.
1-6" Solid Body Sleeve 12" long, M.J. w/R.G.
7 L.F. - 4" D.I.P., Cl. 52
7 L.F. - 6" D.I.P., Cl. 52
7 L.F. - 8" D.I.P., Cl. 52

Temp. for Testing:

1-8" M.J. Cap w/ 2 1/2" C.O.
1- Conc. BIK.

Install W-Beam End section (rounded)

10' Rad. rounding

Exist. E.P. #46 & guy anchor to be relocated by others (location to be determined by the engineer.)

20' Driveway

APPROVED: Date 9/2/84

H. William Swach
MANAGER, DWS

For work relating to DWS Water System only.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RECONSTRUCTION & RELOCATION PLAN
HAWAIIAN ISLANDS ROAD
DRAINAGE IMPROVEMENT
VICINITY OF KAPAAU TOWN
F.A.S. Proj. No. RS-0270(10)
Scale: As Noted Date: August 1984
SHEET NO. OF SHEETS

RECONSTRUCTION & RELOCATION PLAN

Scale: 1" = 10'-0"