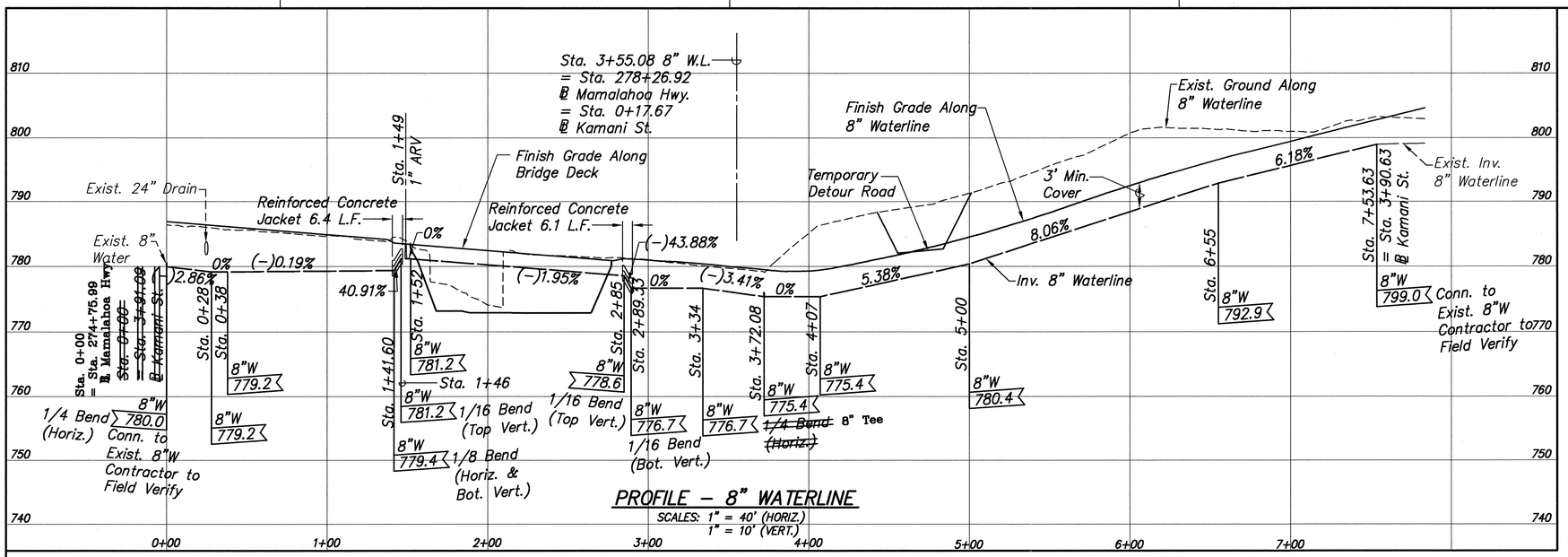
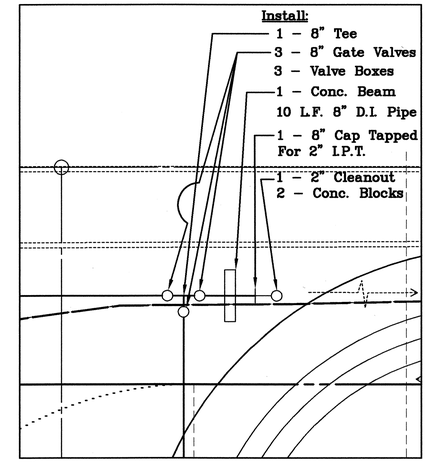
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-12(3)	2002	34	107



PROFILE – 8" WATERLINE

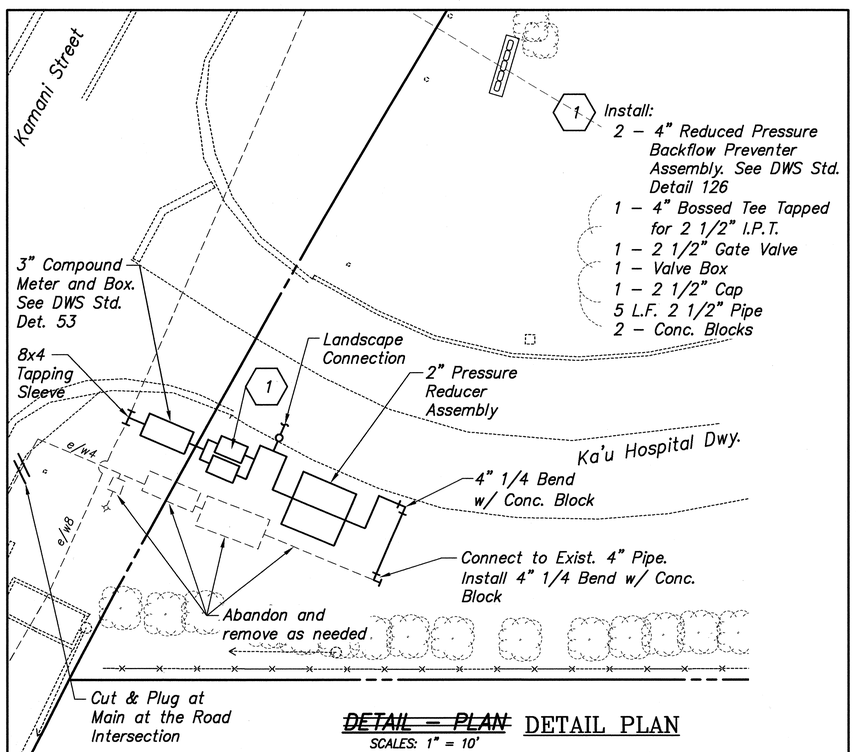
SCALES: 1" = 40' (HORIZ.)
1" = 10' (VERT.)

Install:
- 1 – 8" Tee
- 3 – 8" Gate Valves
- 3 – Valve Boxes
- 1 – Conc. Beam
- 10 L.F. 8" D.I. Pipe
- 1 – 8" Cap Tapped For 2" I.P.T.
- 1 – 2" Cleanout
- 2 – Conc. Blocks



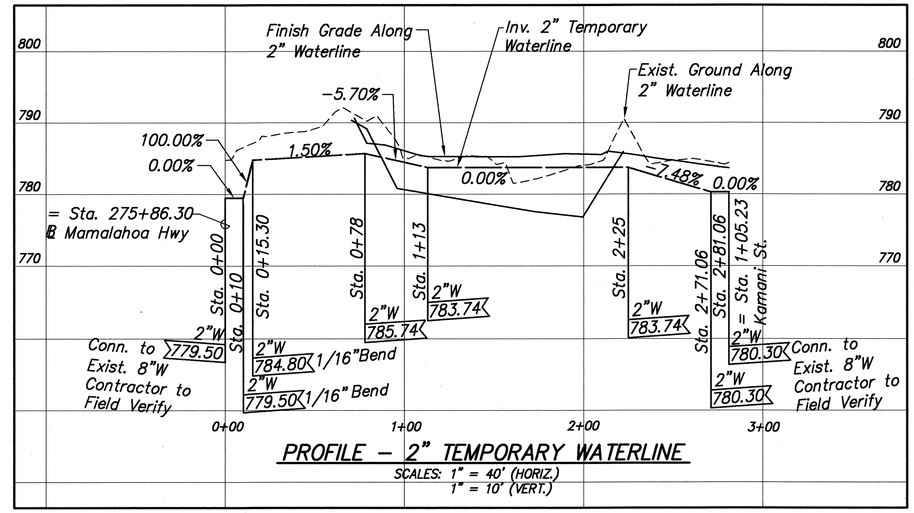
DETAIL – PLAN

Not To Scale



~~DETAIL – PLAN~~ DETAIL PLAN

SCALES: 1" = 10'



PROFILE – 2" TEMPORARY WATERLINE

SCALES: 1" = 40' (HORIZ.)
1" = 10' (VERT.)

LEGEND FOR AS-BUILT POSTINGS

^^^^^^	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

40 0 40 80
SCALE: 1" = 40'

10 0 10 20
SCALE: 1" = 10'

BARRY K. MURANAKA LICENSED PROFESSIONAL ENGINEER No.8418-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WATERLINE PROFILE & MISCELLANEOUS DETAIL

MAMALAHOA HIGHWAY

EMERGENCY REPLACEMENT OF PAAUAU STREAM BRIDGE, IMPROVEMENTS AT KAMANI STREET, AND REHABILITATION OF VARIOUS BRIDGES
FEDERAL AID PROJECT NO. ER-12(3)

Scale: As shown Date: Jan. 2002

SHEET NO. 1 OF 1 SHEETS

AS BUILT

34

P.M.: BKM
CURRENT OPR: rki
PREV. OPR:
CURRENT TIME: Jul 11, 2003 – 4:41pm
LAST SAVED BY:
LAST MODIFIED: Fri, 11 Jul 2003 – 4:09pm

PREFIX: G:\Kai00-01\ACAD\
FILE: KAI0024st1.dwg
BEGIN: 12/26/00
SCALE: 1=1

ORIGINAL PLAN	SURVEY PLOTTED BY	DRAWN BY	DATE
	TRACED BY	DESIGNED BY	
	NOTEBOOK	QUANTITIES BY	
	No.	CHECKED BY	