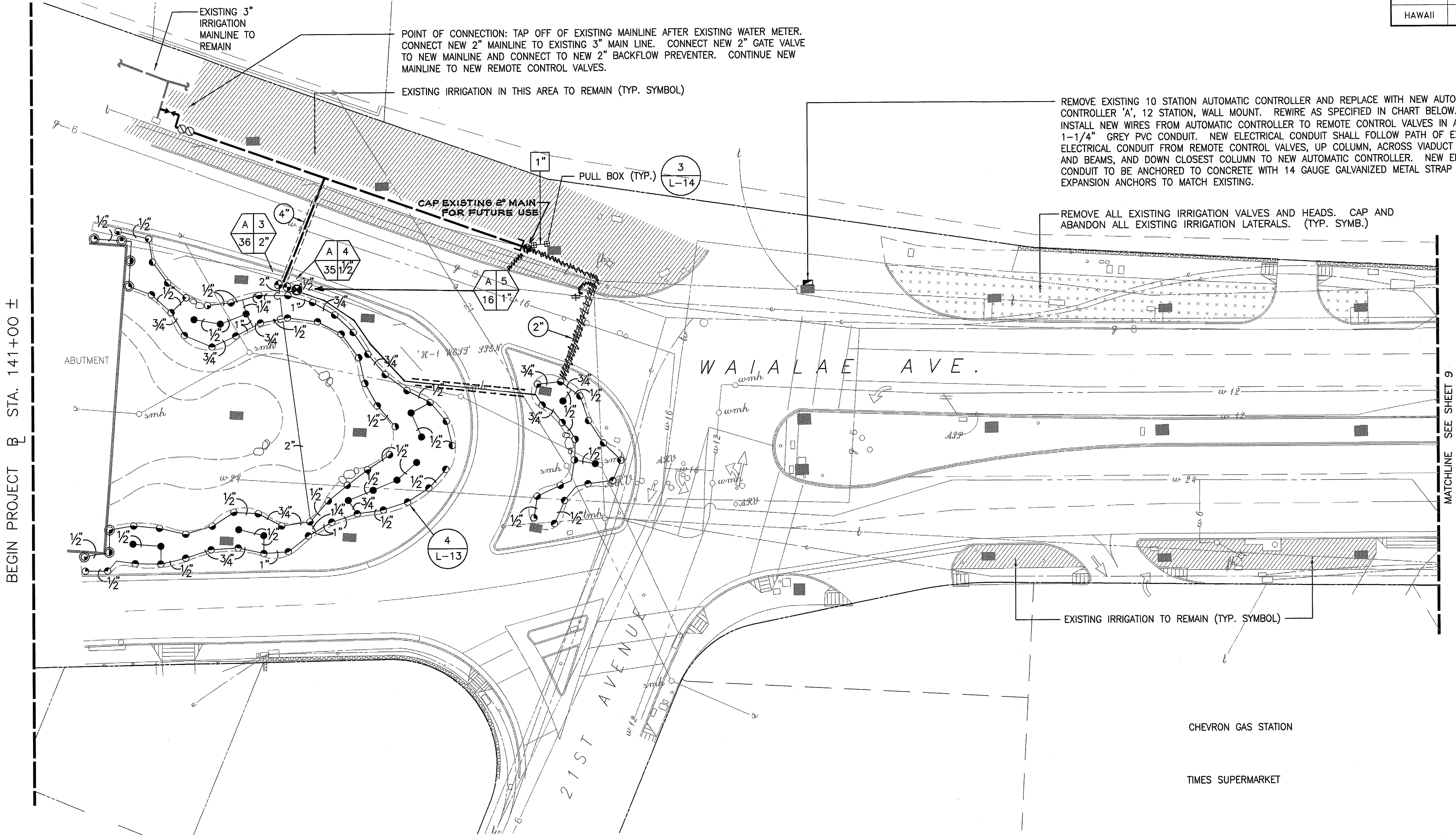


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7801A-01-98	2000	8	14



EXISTING IRRIGATION AUTOMATIC CONTROLLER	NEW IRRIGATION AUTOMATIC CONTROLLER A
STATION 1 (TO REMAIN ACTIVE)	STATION 1 (REWIRE EXISTING STATION 1)
STATION 2 (TO REMAIN ACTIVE)	STATION 2 (REWIRE EXISTING STATION 2)
STATION 3 (ABANDON)	STATION 3 (NEW)
STATION 4 (ABANDON)	STATION 4 (NEW)
STATION 5 (ABANDON)	STATION 5 (NEW)
STATION 6 (TO REMAIN ACTIVE)	STATION 6 (REWIRE EXISTING STATION 6)
* STATION 7 (TO REMAIN ACTIVE)	STATION 7 (REWIRE EXISTING STATION 7)
STATION 8 (TO REMAIN ACTIVE)	STATION 8 (REWIRE EXISTING STATION 8)
STATION 9 (NONE)	STATION 9 (NONE)
STATION 10 (NONE)	STATION 10 (NONE)
	STATION 11 (NONE)
	STATION 12 (NONE)

* CONTROLS PLANTERS ABOVE

NOTE:
1. SAW-CUT, TRENCH AND INSTALL NEW IRRIGATION SLEEVES AND LATERALS AS SHOWN ON PLAN. REPAIR A/C TO MATCH EXISTING (SEE DETAIL ON SHEET 13).

Scale: 1" = 20'

True North

SCALE IN FEET

20' 0 20' 80'

THIS WORK WAS PREPARED BY ME OF UNDER MY SUPERVISION

[Signature]

MELVIN S. KURAKA
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
No. 2768
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPE IRRIGATION PLAN

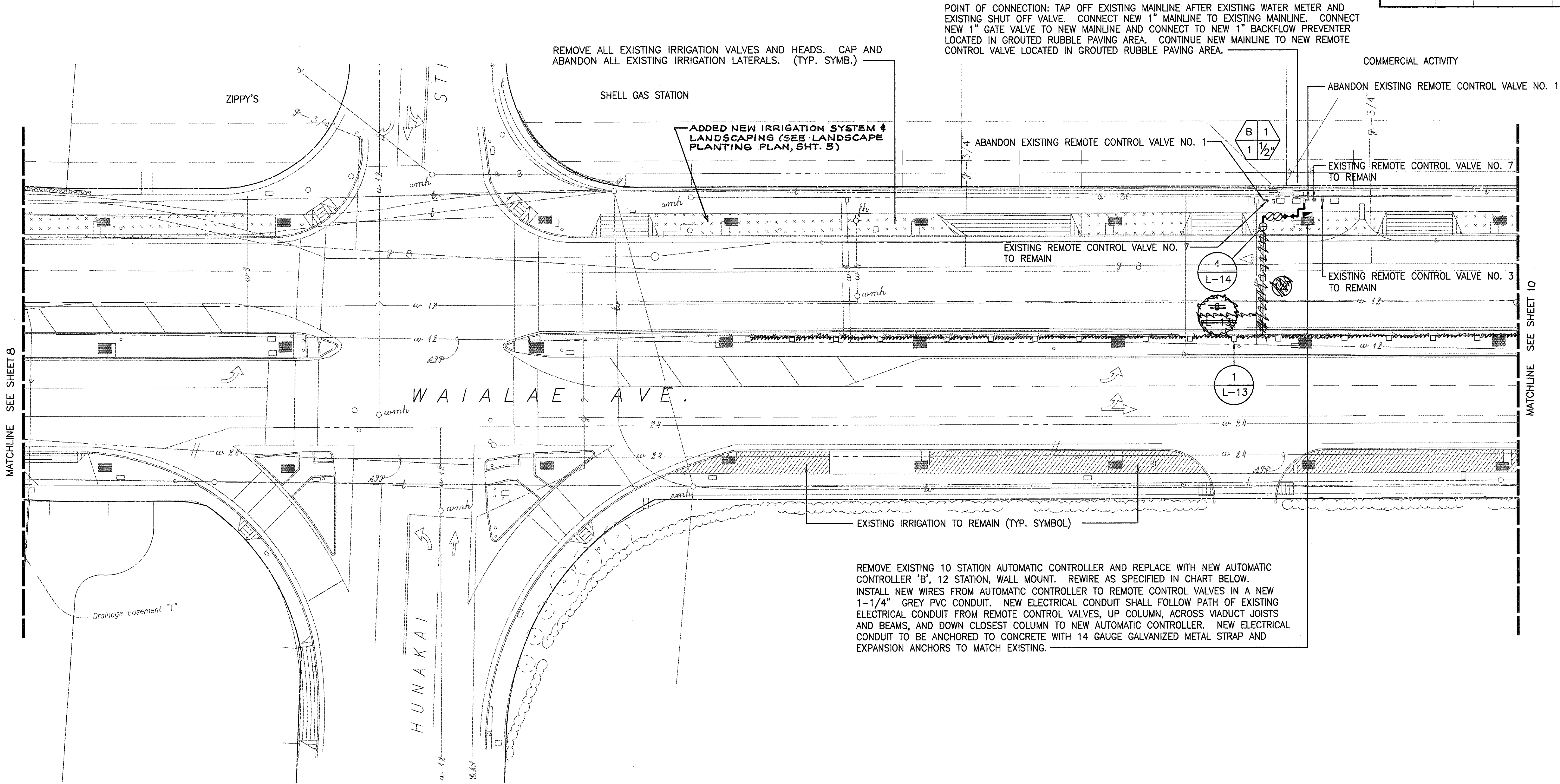
WAIALAE AVENUE LANDSCAPE IMPROVEMENTS
VICINITY OF KAHALA MALL
PROJECT NO. 7801A-01-98

SCALE: 1" = 20' DATE: NOVEMBER 1999

SHEET NO. 8 OF 14 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7801A-01-98	2000	9	14

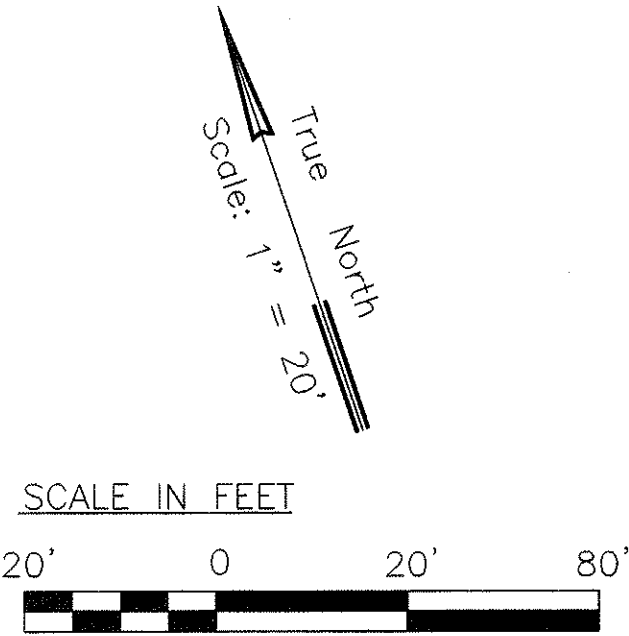


EXISTING IRRIGATION AUTOMATIC CONTROLLER	NEW IRRIGATION AUTOMATIC CONTROLLER A
STATION 1 (ABANDON)	STATION 1 (NEW)
STATION 2 (NONE)	STATION 2 (NEW)
STATION 3 (TO REMAIN ACTIVE)	STATION 3 (REWIRE EXISTING STATION 3)
STATION 4 (ABANDON)	STATION 4 (NEW)
STATION 5 (ABANDON)	STATION 5 (NEW)
* STATION 6 (TO REMAIN ACTIVE)	STATION 6 (REWIRE EXISTING STATION 6)
* STATION 7 (TO REMAIN ACTIVE)	STATION 7 (REWIRE EXISTING STATION 7)
STATION 8 (TO REMAIN ACTIVE)	STATION 8 (REWIRE EXISTING STATION 8)
STATION 9 (TO REMAIN ACTIVE)	STATION 9 (REWIRE EXISTING STATION 9)
STATION 10 (NONE)	STATION 10 (NONE)
	STATION 11 (NONE)
	STATION 12 (NONE)

* CONTROLS PLANTERS ABOVE

NOTE:

1. SAW-CUT, TRENCH AND INSTALL NEW IRRIGATION SLEEVES AND LATERALS AS SHOWN ON PLAN. REPAIR A/C TO MATCH EXISTING (SEE DETAIL ON SHEET 13).



THIS WORK WAS PREPARED BY ME OF UNDER MY SUPERVISION

Melvin S. Kuriyama

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPE IRRIGATION PLAN

WAIALAE AVENUE LANDSCAPE IMPROVEMENTS
VICINITY OF KAHALA MALL
PROJECT NO. 7801A-01-98

SCALE: 1"= 20' DATE: NOVEMBER 1999

SHEET NO. 9 OF 14 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7801A-01-98	2000	10	14

NEW ELECTRICAL CONDUIT TO FOLLOW PATH OF EXISTING ELECTRICAL CONDUIT FROM REMOTE CONTROL VALVE, ACROSS VIADUCT JOISTS AND BEAMS, AND DOWN CLOSEST COLUMN TO AUTOMATIC CONTROLLER. NEW ELECTRICAL CONDUIT TO BE ANCHORED TO CONCRETE WITH 14 GAUGE GALVANIZED METAL STRAP AND EXPANSION ANCHORS TO MATCH EXISTING.

ABANDON EXISTING REMOTE CONTROL VALVE NO. 4.

POINT OF CONNECTION: CUT OFF EXISTING MAINLINE AFTER EXISTING WATER METER AND SHUT OFF VALVE. CONNECT NEW 1" MAINLINE TO EXISTING 2" MAINLINE. CONNECT NEW 1" GATE VALVE TO NEW MAINLINE AND CONNECT TO NEW 1" BACKFLOW PREVENTER LOCATED IN GROUTED RUBBLE PAVING AREA. CONTINUE NEW MAINLINE TO NEW REMOTE CONTROL VALVE LOCATED IN GROUTED RUBBLE PAVING AREA.

ADDED NEW IRRIGATION SYSTEM & LANDSCAPING(SEE LANDSCAPE PLANTING PLAN, SHT. 6)

REMOVE ALL EXISTING IRRIGATION VALVES AND HEADS. CAP AND ABANDON ALL EXISTING IRRIGATION LATERALS. (TYP. SYMB.)

KAHALA TOWER APARTMENTS

W A I A L A E A V E .

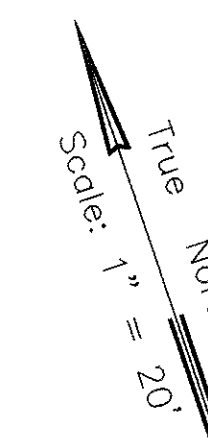
EXISTING IRRIGATION TO REMAIN (TYP.)

KAHALA MALL SHOPPING CENTER

NOTE:

1. SAW-CUT, TRENCH AND INSTALL NEW IRRIGATION SLEEVES AND LATERALS AS SHOWN ON PLAN. REPAIR A/C TO MATCH EXISTING (SEE DETAIL ON SHEET 13).

SCALE IN FEET



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mp kurjov

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPE IRRIGATION PLAN

WAIALAE AVENUE LANDSCAPE IMPROVEMENTS
VICINITY OF KAHALA MALL
PROJECT NO. 7801A-01-98

SCALE: 1"= 20' DATE: NOVEMBER 1999

SHEET NO. 10 OF 14 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7801A-01-98	2000	11	14

POINT OF CONNECTION: TAP OFF OF EXISTING MAINLINE AND CONNECT NEW 2" MAINLINE TO EXISTING 2" WATER METER. CONNECT NEW 2" GATE VALVE TO NEW MAINLINE AND CONNECT TO NEW 2" BACKFLOW PREVENTER. CONTINUE NEW MAINLINE TO NEW REMOTE CONTROL VALVES.

(3) EXISTING REMOTE CONTROL VALVES NO. 8 TO REMAIN

NEW ELECTRICAL CONDUIT TO FOLLOW PATH OF EXISTING ELECTRICAL CONDUIT FROM REMOTE CONTROL VALVES, ACROSS VIADUCT JOISTS AND BEAMS, AND DOWN CLOSEST COLUMN TO AUTOMATIC CONTROLLER. NEW ELECTRICAL CONDUIT TO BE ANCHORED TO CONCRETE WITH 14 GAUGE GALVANIZED METAL STRAP AND EXPANSION ANCHORS TO MATCH EXISTING.

CHEVRON GAS STATION

W A I A L A E A V E .

GAS STATION

Lot 39-A

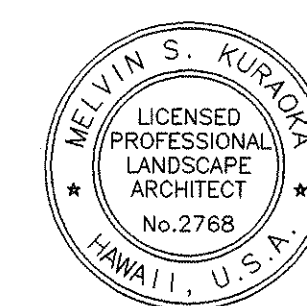
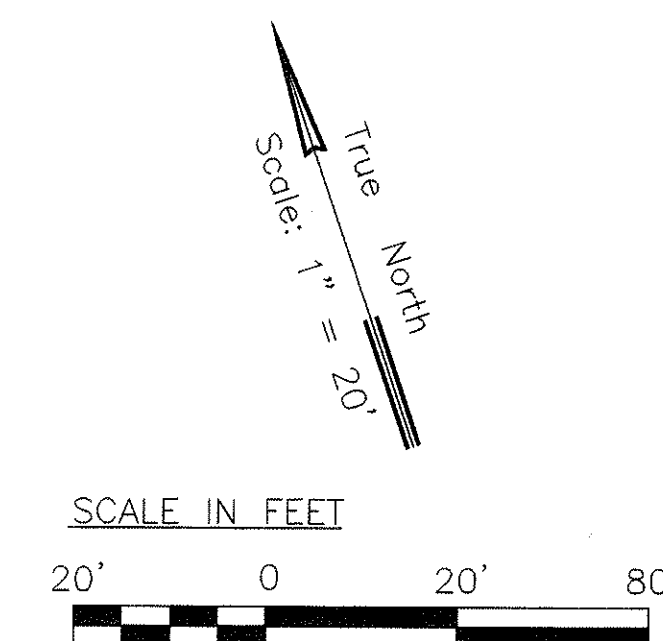
W A I A L A E C O U N T R Y C L U B

MATCHLINE SEE SHEET 10

END PROJECT @ STA. 162+70 ±

NOTE:

1. SAW-CUT, TRENCH AND INSTALL NEW IRRIGATION SLEEVES AND LATERALS AS SHOWN ON PLAN. REPAIR A/C TO MATCH EXISTING (SEE DETAIL ON SHEET 13).



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Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPE IRRIGATION PLAN

W A I A L A E A V E N U E L A N D S C A P E I M P R O V E M E N T S
VICINITY OF KAHALA MALL
PROJECT NO. 7801A-01-98

SCALE: 1" = 20' DATE: NOVEMBER 1999

SHEET NO. 11 OF 14 SHEETS