

SURVEY PLOT
DRAWN BY ___
TRACED BY __
DESIGNED BY __
QUANTITIES B
CHECKED BY __

IRRIGATION NOTES:

	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	HAWAII	HAW.	7801A-01-07M	2007	7	8

- 1. Contractor shall install irrigation lines, wires, valves and heads per specifications. Existing gate valves, point of connection, etc. are derived from the best available informations and on-site inspection. The Contractor shall verify those points of connection noted and report any discrepancies to the Engineer
- 2. This plan is diagrammatic. Irrigation system is subject to field adjustments due to unanticipated site conditions. Locate all mainlines, laterals, valves and sprinklers heads within planting areas, unless otherwise noted. Place mainline in planting areas where no sleeves are shown. Avoid any conflict between underground utilities, structures and plantings. The Contractor shall be responsible for locating and protecting all existing utilities. Bury pressure mainlines 18" and lateral lines 10" deep minimum.
- 3. This irrigation system was designed witha minimum static water pressure of 75 psi at the point of connection. Notify the Project Engineer, if water pressure is less than psi or greater than 50 psi.
- 4. Contractor shall secure all necessary permits and observe all local codes and regulations. The Contractor shall confirm all sites dimensions and conditions, and report any discrepancies to the Engineer.
- 5. Contractor shall coordinate the insallation of all sleeves, conduits, mainlines and lateral under pavement and through walls. Contractor shall assure that these items are laid prior to placement of pavement or wall structures.
- 6. Locate and install all sprinkler heads 6" from sidewalk, curbs, driveways, building and wall unless otherwise noted. Flex tubing shall be installed on all sprinkler head along sidewalks, driveways, and parking spaces. Adjust all sprinkler heads and flow control for maximum coverage and minimum overthrow and misting. Operate only one valve at a time per controller.
- 7. Within 30 days after award of the contract, submit for the Engineer's acceptance six (6) copies of detailed scaled drawings and wiring diagrams for permanent and temporary irrigation systems. Not proposed deviations from the contract. Include samples of materials, if required by contract.
- 8. Perform hydrostatic text by applying continuous static pressure of 60 psi for one (1) hour. Notify the Engineer at least three (3) days in advance of test. Repair leaks that develop and repeat test. Do not backfill until there is no further sign of leakage.
- 9. Perform operability test by opening remote control valve and test cirsuits for leaks around barbed and threaded pvc fittings. Repair leaks and repest text. Notify the Engineer at least three (3) days in advance of test. Do not backfill until there is no further sign of leakage.
- 10. Perform coverage test. Before planting period, run automatic controller through all it's cycles. Check watering for coverage and uniformity in company of the Engineer. Run suspter until there are puddles or there is sheet flow to determine initial irrigation time and number of cycles per week needed to water requirements of plants.
- 11. Locate valve boxes so that the outer edges are no closer than five feet to roadway pavement. Group valve boxes and feasible.
- 12. If plans do not specify depth of excavtion, provide minimum cover to finish grade as follows.
 - (a) 4 inches for drip irrigation main.
 - (b) 18 inches for irrigation main.
 - (c) 10 inches for irrigatin lateral.
 - (d) 24 inches for sleeve or conduit under landscape pavement.
 - (e) 36 inches for sleeve or conduit under roadway pavement.
 - (f) For controller wires and conduits in unpaved areas, depth equal to that pressure irrigation pipe.
- 13. No additional irrigation water demand will be required. Existing meters, 30049820, 30052088 are adequate to serve the irrigation system.
- 14. Remove \$\phi\ dispose of ex. irrigation system.
 Removal \$\phi\ disposal shall be considered an incidental expense to Section 616-Irrigation.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

IRRIGATION DETAILS

WAIALAE AVENUE LANDSCAPING
Kilauea Avenue to Ainakoa Avenue
Project No. 7801A-01-07M

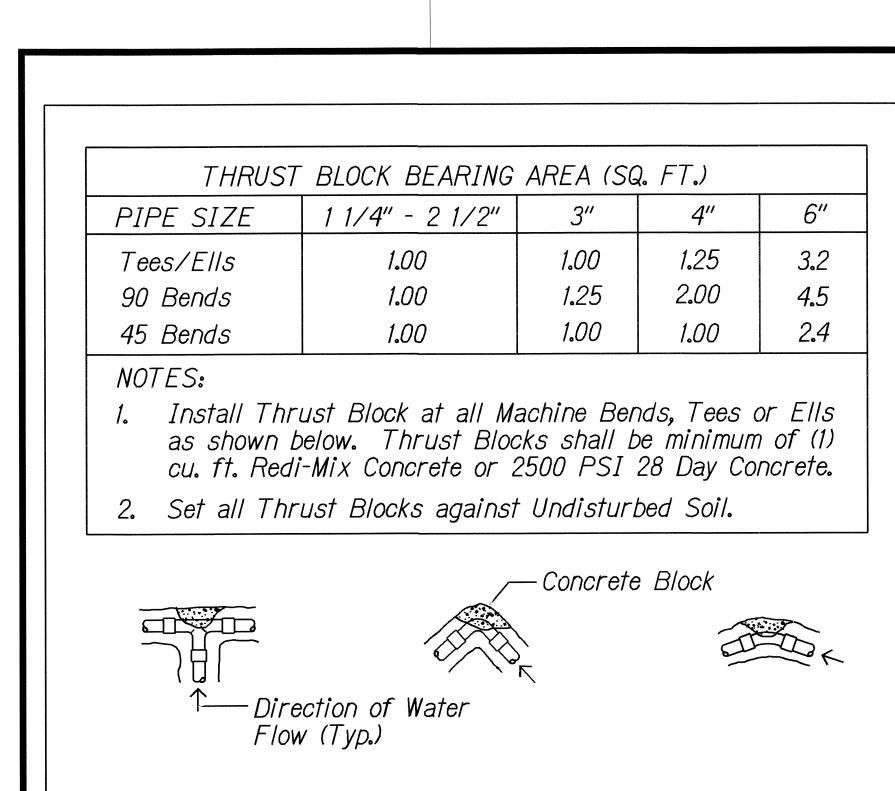
Scale: NTS

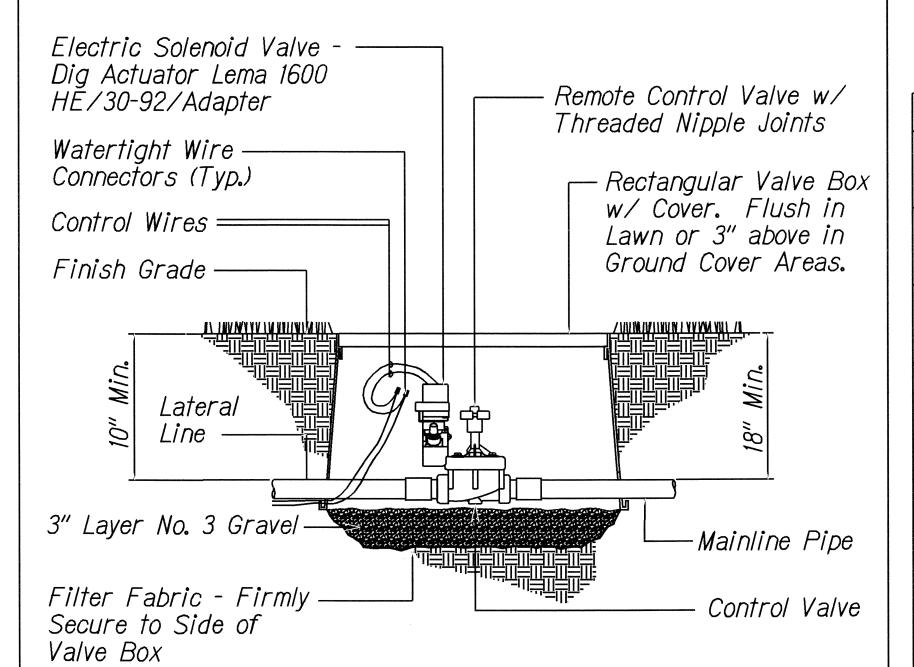
Date: May, 2007

SHEET No. 1 OF 2 SHEETS

AS-BUILT"

7





NOTE: All Valve Box Covers shall be labeled Recycled Water [if applicable], Valve Type, Zone Number and Controller Number

REMOTE CONTROL VALVE DETAIL

— 4" Pop-Up Finish Grade -Spray Head 4" Layer of — Imported Top Soil over all Planting Areas Schedule 80 PVC Nipple — (Length as Required). PVC Tee. S x S x T -Swing Pipe

THRUST BLOCK DETAIL

Edge of Trench

NOTES:

Line

PVC Lateral

G

- KBI or Lasco Swing Joints may be used upon arrival by Engineer.
- Install Part Circle Pop-Up Heads 6" from Edge of Paved Areas.

LAWN POP-UP SPRINKLER DETAIL

N.T.S. しし

N.T.S.

PULL BOX DETAIL

N.T.S.

N.T.S.

FED. AID PROJ. NO. FISCAL YEAR FED. ROAD NO. SHEETS **HAW.** 7801A-01-07M 2007

IRRIGATION EQUIPMENT LIST

Symbol	Quantity	Manufacturer Catalog Number	Description	G.P.M.	Radius	P.S.I.
•	4	Rainbird 150-PEB-PRS-D w/ Dig Actuator Lema 1600HE	1½" Remote Control Valve w/ Actuator			
•	194	Rainbird 1804-SAM-PRS-8H	4" Pop-Up Spray Head w/ 7' Radius/Half	0.50	7′	25
	2	DIG LEIT 4004/MCOL4000/ ENCL4000	4 Station Irr. Cntlr. w/ Rain Sensor			
M	2	2" FEBCO 805Y or B.W.S. Approved Equal w/ Enclosure	Backflow Preventer			
		PVC Schedule 40	Irrigation Main			
		PVC Schedule 40	Irrigation Lateral			
		PVC Schedule 40	Existing Irrigation Sleeve			

STATE OF HAWAII **DEPARTMENT OF TRANSPORTATION**

IRRIGATION DETAILS

WAIALAE AVENUE LANDSCAPING Kilauea Avenue to Ainakoa Avenue Project No. 7801A-01-07M

Scale: NTS

REDUCED

(HALF SIZE)

3 INCHES ON ORIGINAL PLAN

PLAN

Date: May, 2007 SHEET No. 2 OF 2 SHEETS

SURVEY PLOT
DRAWN BY __
TRACED BY __
DESIGNED BY
QUANTITIES I

