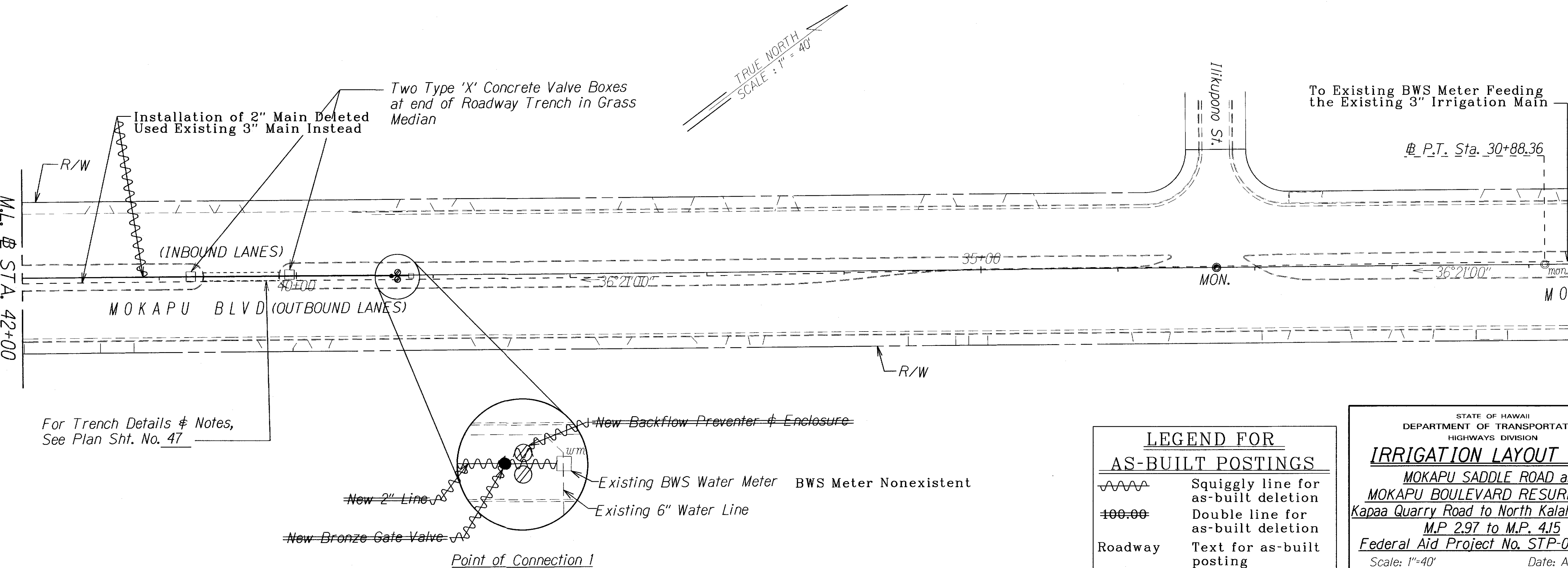
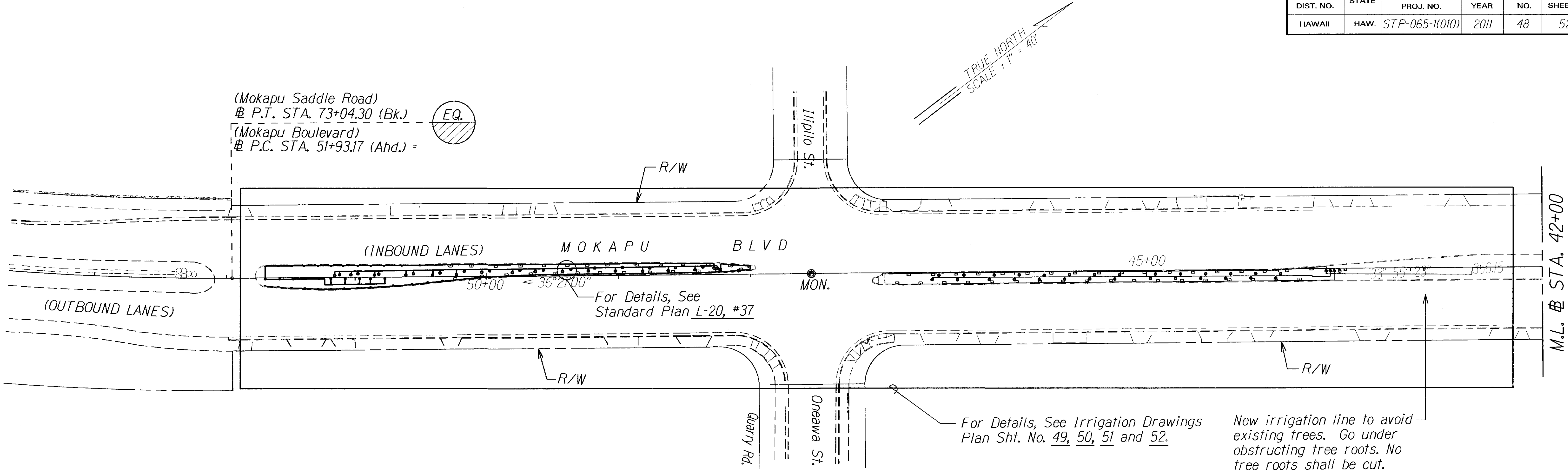


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-065-1(010)	2011	48	52



ORIGINAL PLAN	DATE
DESIGNED BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
TRACED BY	
DRAWN BY	
STAMPED BY	

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

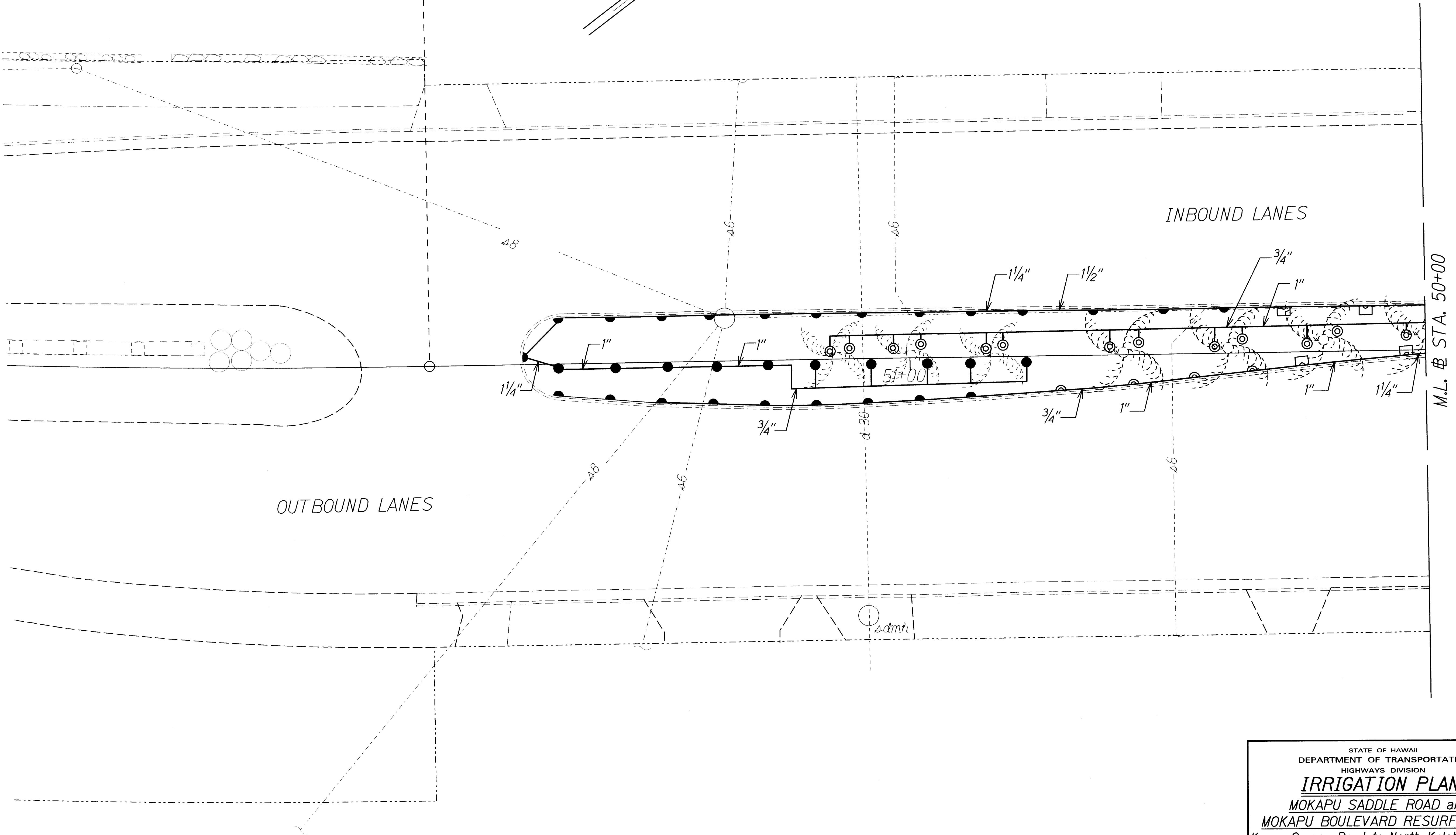
IRRIGATION LAYOUT PLAN
MOKAPU SADDLE ROAD and
MOKAPU BOULEVARD RESURFACING
Kapaa Quarry Road to North Kalaheo Avenue
M.P. 2.97 to M.P. 4.15
Federal Aid Project No. STP-065-1(010)
Scale: 1"=40' Date: April, 2011

SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-065-1(010)	2011	49	52

(Mokapu Saddle Road)
 EQ. # P.T. STA. 73+04.30 (Bk.)
 (Mokapu Boulevard)
 # P.C. STA. 51+93.17 (Ahd.) =

TRUE NORTH
 SCALE : 1" = 10'

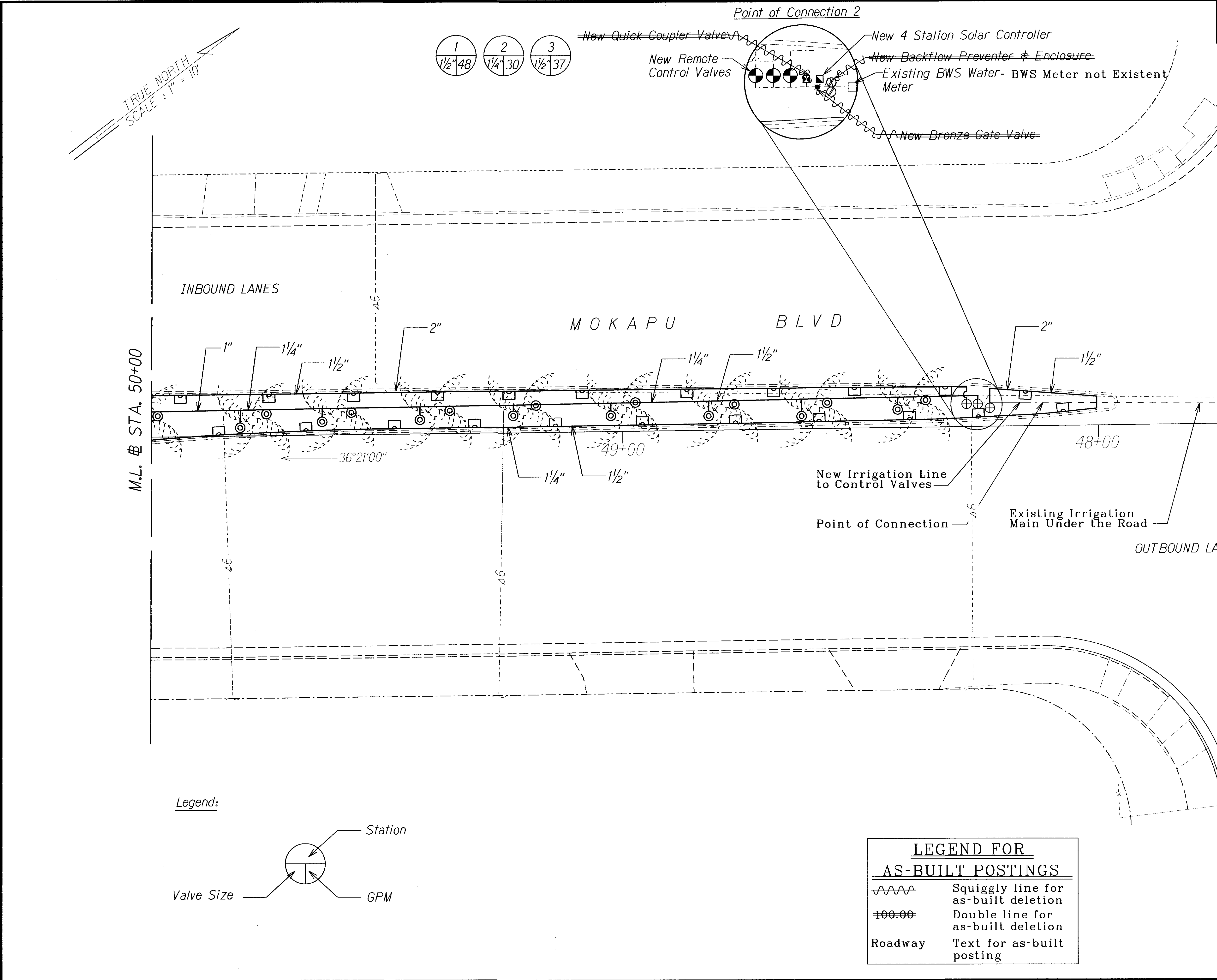


ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

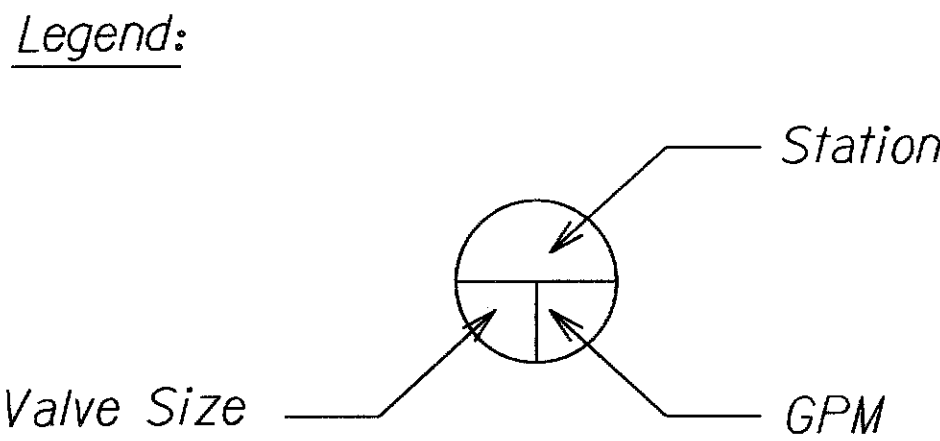
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
IRRIGATION PLANS
 MOKAPU SADDLE ROAD and
 MOKAPU BOULEVARD RESURFACING
 Kapaa Quarry Road to North Kalaheo Avenue
 M.P. 2.97 to M.P. 4.15
 Federal Aid Project No. STP-065-1(010)
 Scale: 1" = 10' Date: April, 2011

SHEET No. 1 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-065-1(010)	2011	50	52



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		



LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

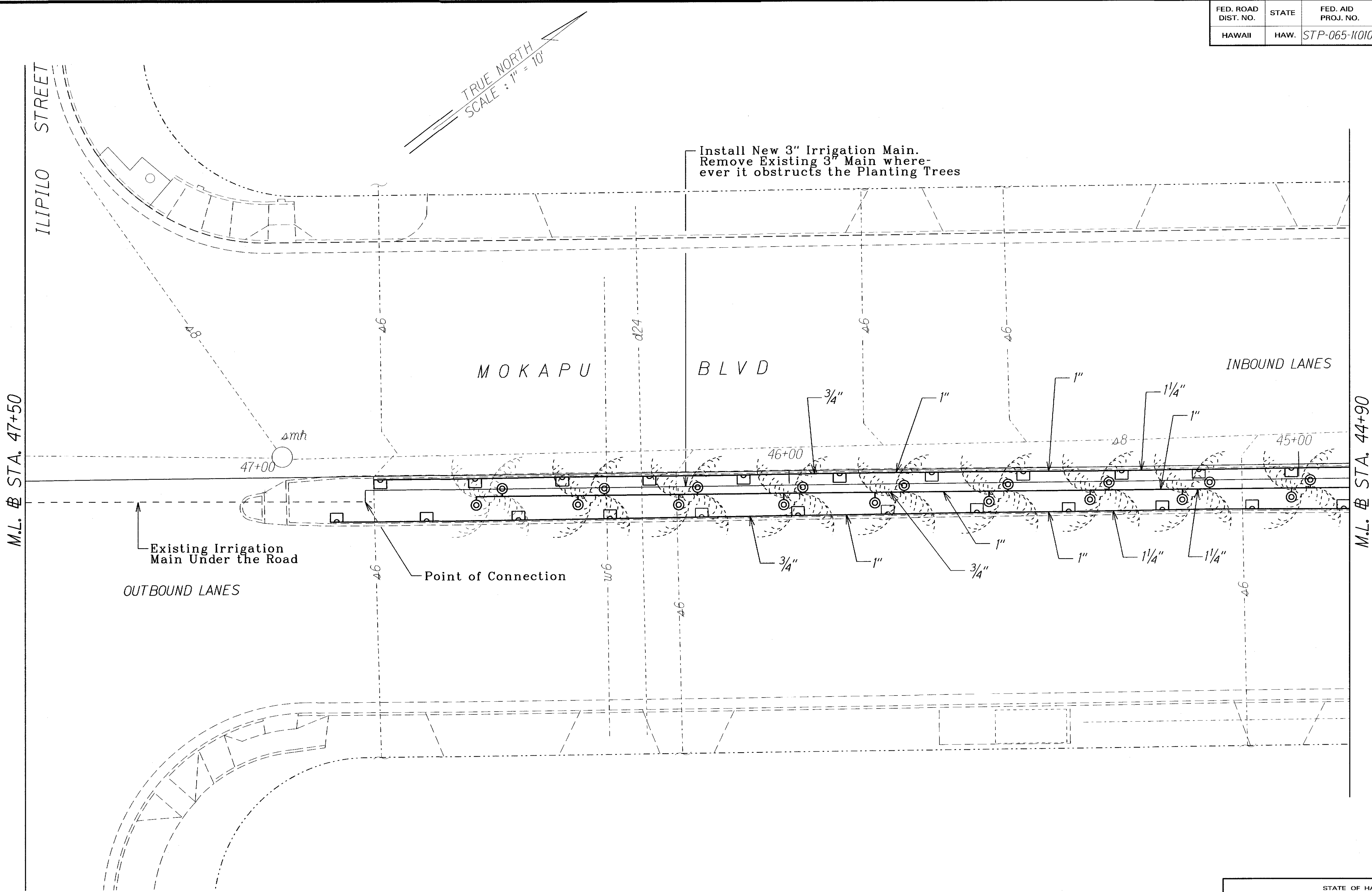
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

IRRIGATION PLANS

MOKAPU SADDLE ROAD and
MOKAPU BOULEVARD RESURFACING
Kapaa Quarry Road to North Kalaheo Avenue
M.P. 2.97 to M.P. 4.15
Federal Aid Project No. STP-065-1(010)
Scale: 1" = 10' Date: April, 2011

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-065-1(010)	2011	51	52



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
DESIGNED BY	CHECKED BY	
QUANTITIES BY		

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

IRRIGATION PLANS
MOKAPU SADDLE ROAD and
MOKAPU BOULEVARD RESURFACING
Kapaa Quarry Road to North Kalaheo Avenue
M.P. 2.97 to M.P. 4.15
Federal Aid Project No. STP-065-1(010)
Scale: 1" = 10' Date: April, 2011

SHEET No. 3 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-065-1(010)	2011	52	52

TRUE NORTH
SCALE : 1" = 10'

4 1/4" 33	5 1/4" 28	6 1/4" 35
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New Remote Control Valves

New 4 Station Solar Controller

~~New 2" Irrigation Mainline~~ Existing 3" Main Used Instead

New Quick Coupler Valve

Irrigation Main Shut-Off Valve

INBOUND LANES

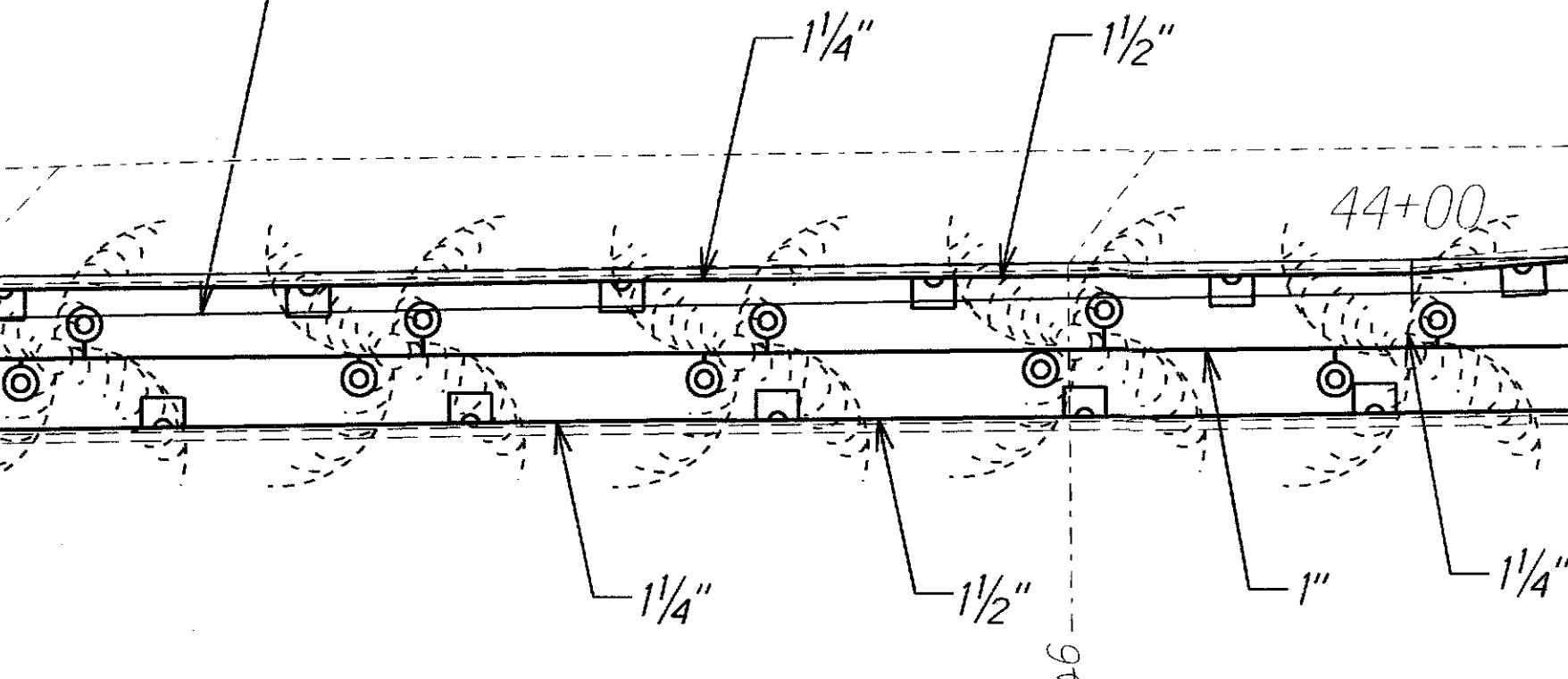
Install New 3" Irrigation Main. Remove Existing 3" Main wherever it obstruct Planting Trees

Point of Connection to Existing 3" Irrigation Main

Existing 3" Irrigation Main

M.L. # STA. 44+90

M.L. # STA. 42+30



Installation of 2" Irrigation Line Deleted. Used Existing 3" Irrigation Main Instead

~~For Point of Connection, See Irrigation Layout Plan Sht. No. 48~~

OUTBOUND LANES

R/W

NOTE:

1. New irrigation lines should avoid existing trees, go under obstructing tree roots. No tree roots shall be cut.

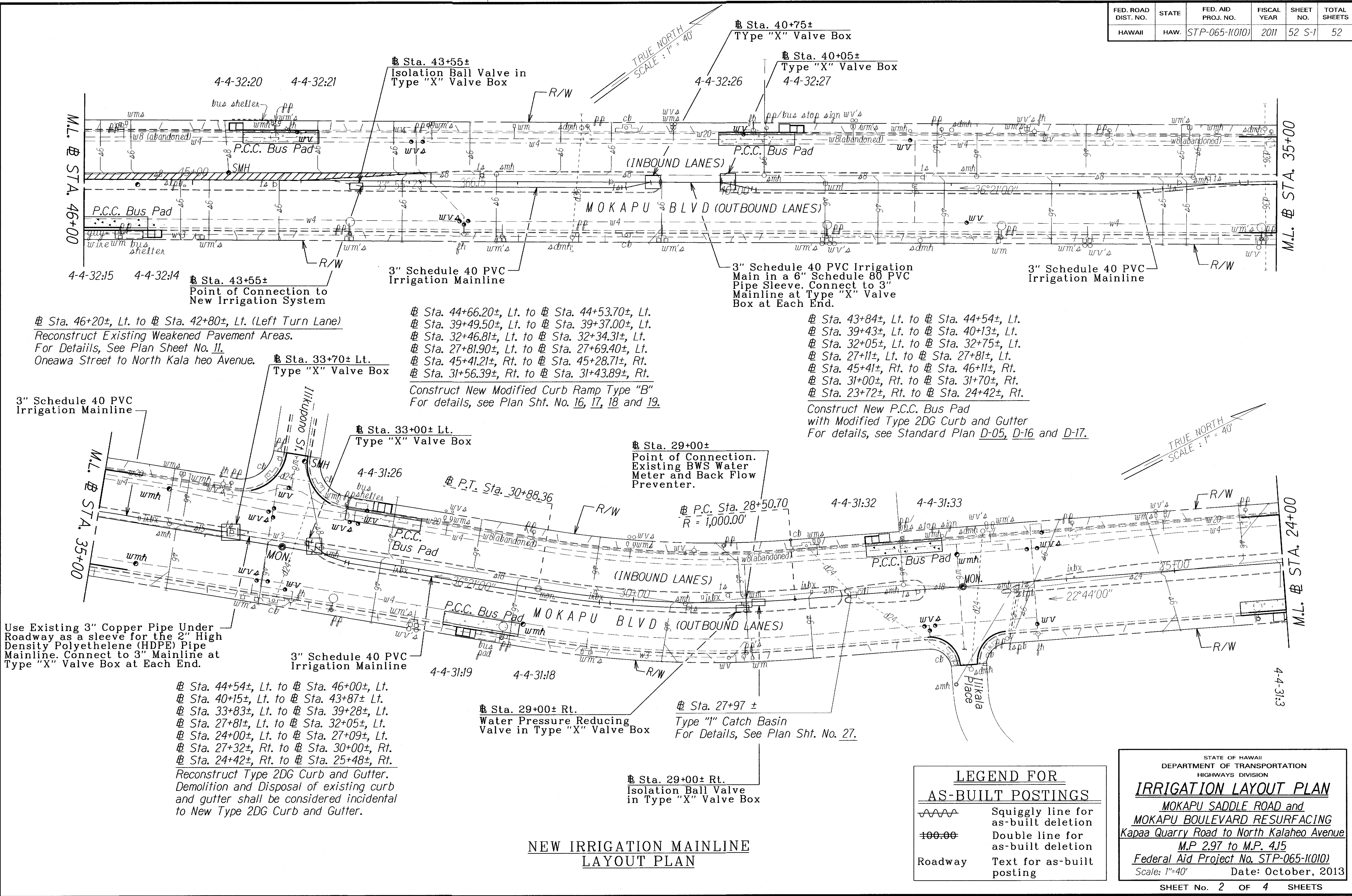
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
DESIGNED BY	DESIGNED BY	
CHECKED BY	CHECKED BY	

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

IRRIGATION PLANS
MOKAPU SADDLE ROAD and
MOKAPU BOULEVARD RESURFACING
Kapaa Quarry Road to North Kalaheo Avenue
M.P. 2.97 to M.P. 4.15
Federal Aid Project No. STP-065-1(010)
Scale: 1" = 10' Date: April, 2011

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-065-1(010)	2011	52 S-1	52



Sta. 46+20±, Lt. to Sta. 42+80±, Lt. (Left Turn Lane)
Reconstruct Existing Weakened Pavement Areas.
For Details, See Plan Sheet No. 11.
Oneawa Street to North Kala heo Avenue.

Sta. 44+66.20±, Lt. to Sta. 44+53.70±, Lt.
Sta. 39+49.50±, Lt. to Sta. 39+37.00±, Lt.
Sta. 32+46.81±, Lt. to Sta. 32+34.31±, Lt.
Sta. 27+81.90±, Lt. to Sta. 27+69.40±, Lt.
Sta. 45+41.21±, Rt. to Sta. 45+28.71±, Rt.
Sta. 31+56.39±, Rt. to Sta. 31+43.89±, Rt.
Construct New Modified Curb Ramp Type "B"
For details, see Plan Sht. No. 16, 17, 18 and 19.

Sta. 43+84±, Lt. to Sta. 44+54±, Lt.
Sta. 39+43±, Lt. to Sta. 40+13±, Lt.
Sta. 32+05±, Lt. to Sta. 32+75±, Lt.
Sta. 27+11±, Lt. to Sta. 27+81±, Lt.
Sta. 45+41±, Rt. to Sta. 46+11±, Rt.
Sta. 31+00±, Rt. to Sta. 31+70±, Rt.
Sta. 23+72±, Rt. to Sta. 24+42±, Rt.
Construct New P.C.C. Bus Pad
with Modified Type 2DG Curb and Gutter
For details, see Standard Plan D-05, D-16 and D-17.

Use Existing 3" Copper Pipe Under
Roadway as a sleeve for the 2" High
Density Polyethelene (HDPE) Pipe
Mainline. Connect to 3" Mainline at
Type "X" Valve Box at Each End.

Sta. 44+54±, Lt. to Sta. 46+00±, Lt.
Sta. 40+15±, Lt. to Sta. 43+87± Lt.
Sta. 33+83±, Lt. to Sta. 39+28±, Lt.
Sta. 27+81±, Lt. to Sta. 32+05±, Lt.
Sta. 24+00±, Lt. to Sta. 27+09±, Lt.
Sta. 27+32±, Rt. to Sta. 30+00±, Rt.
Sta. 24+42±, Rt. to Sta. 25+48±, Rt.
Reconstruct Type 2DG Curb and Gutter.
Demolition and Disposal of existing curb
and gutter shall be considered incidental
to New Type 2DG Curb and Gutter.

Sta. 29+00± Rt.
Water Pressure Reducing
Valve in Type "X" Valve Box

Sta. 27+97 ±
Type "I" Catch Basin
For Details, See Plan Sht. No. 27.

Sta. 29+00± Rt.
Isolation Ball Valve
in Type "X" Valve Box

ORIGINAL PLAN	DATE
DESIGNED BY	
CHECKED BY	
IN CHARGE	