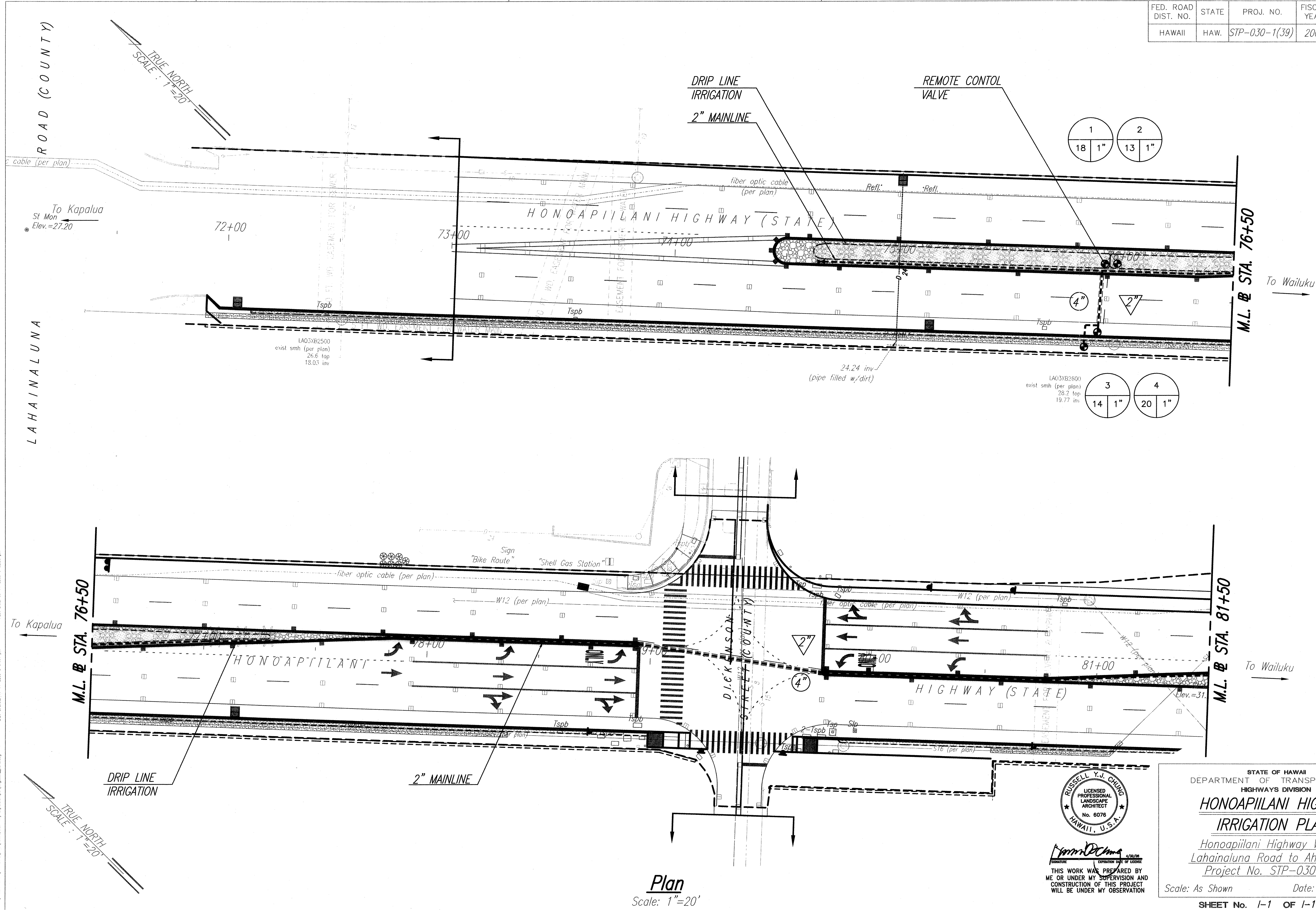


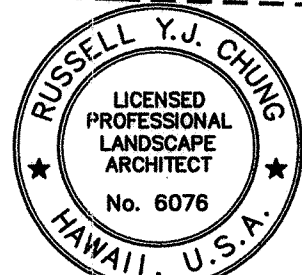
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	174	195

194



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
QUANTITIES BY	CHECKED BY	
No.		

LAST DATE: 01-14-2008 @ 01:41 PM
 LAST UPDATE: 01-14-2008 @ 01:41 PM
 PROJECT: 030-1(39) Honoapiilani Hwy Expansion (030-1(39) Honoapiilani Hwy Expansion)

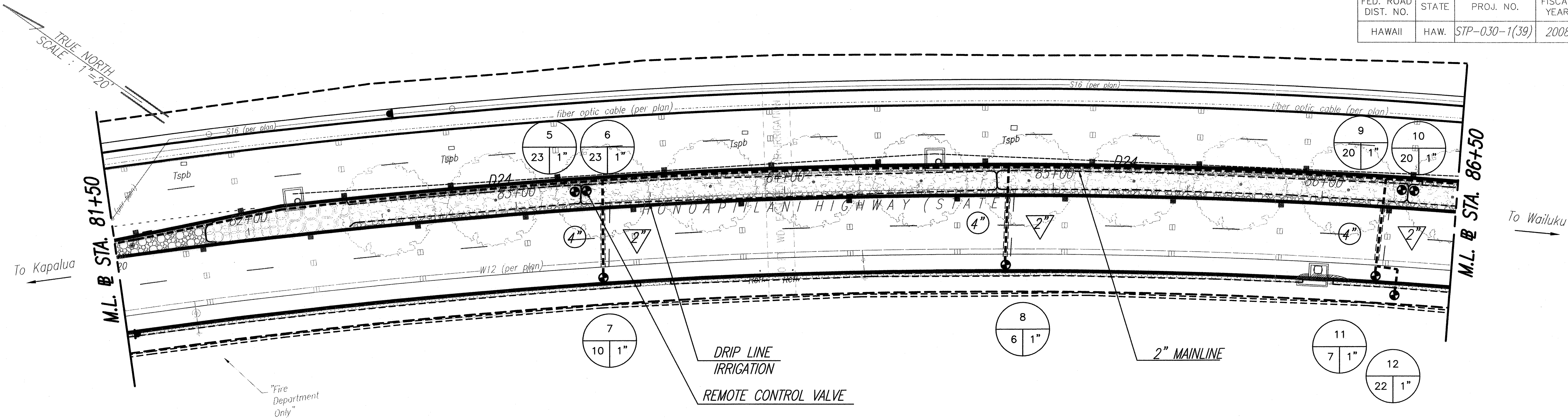


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 SIGNATURE: *Russell Y.J. Chung*
 EXPIRATION DATE OF LICENSE: 4/30/08

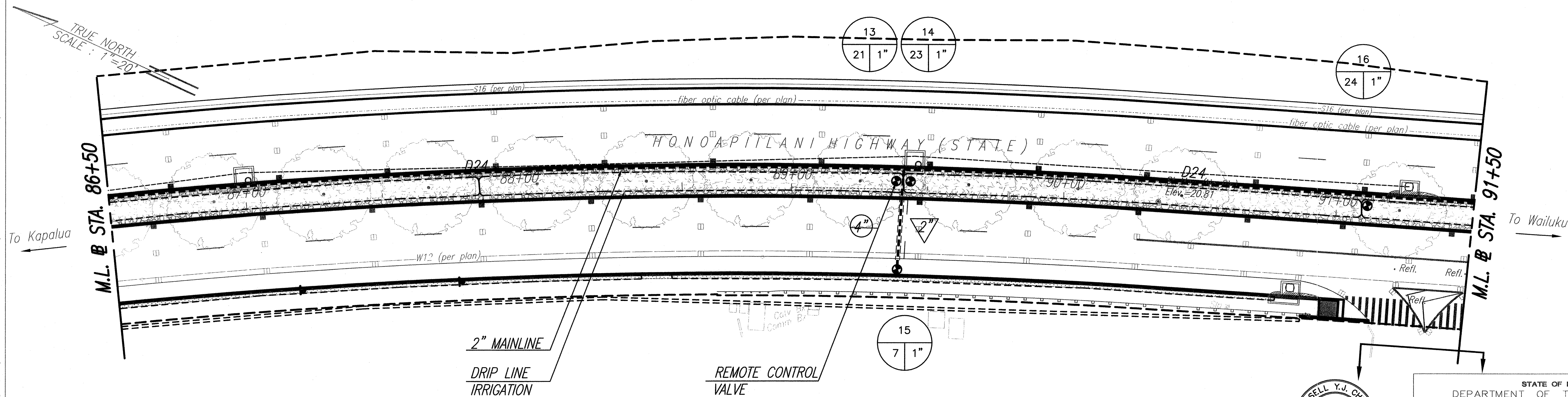
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
HONOAPIILANI HIGHWAY IRRIGATION PLANS
*Honoapiilani Highway Widening
 Lahainaluna Road to Aholo Road
 Project No. STP-030-1(39)*
 Scale: As Shown Date: *October 2008*
 SHEET No. 1-1 OF 1-10 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	175	194

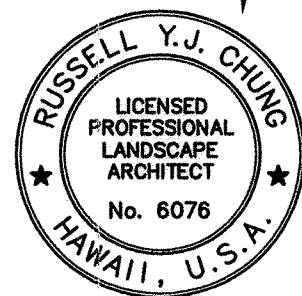
194



Plan
Scale: 1"=20'



Plan
Scale: 1"=20'



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**HONOAPIILANI HIGHWAY
IRRIGATION PLANS**

Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)

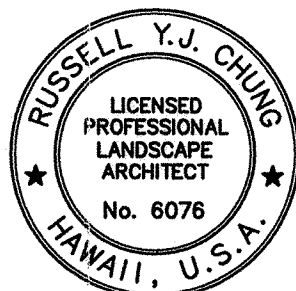
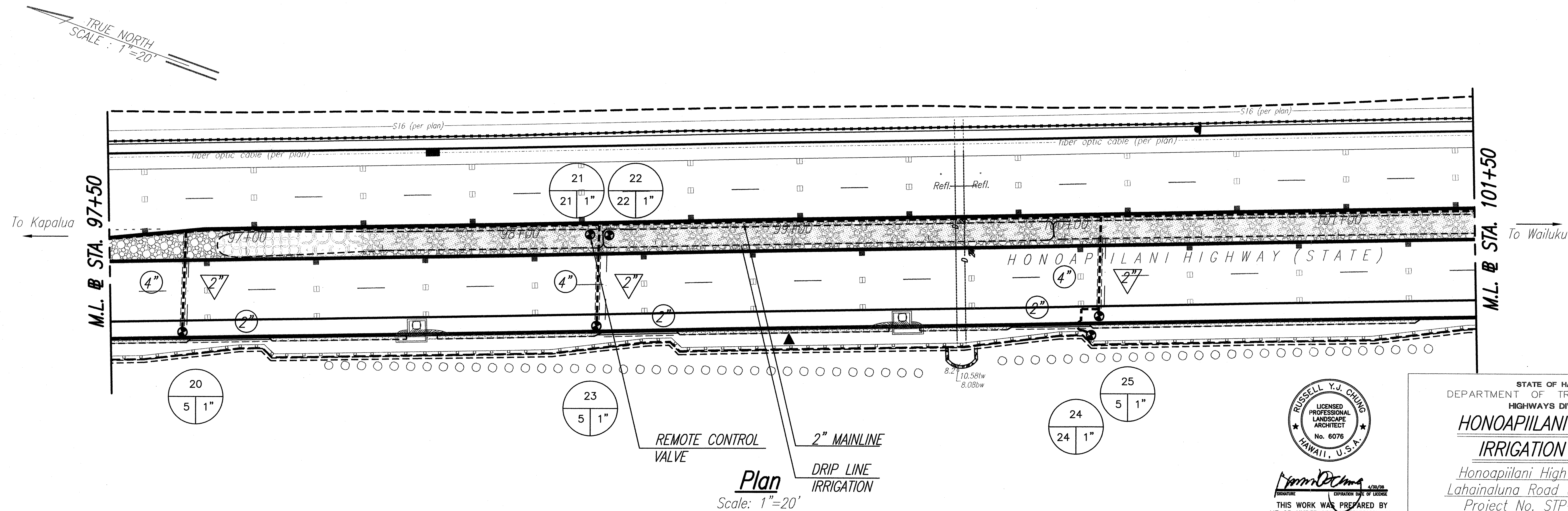
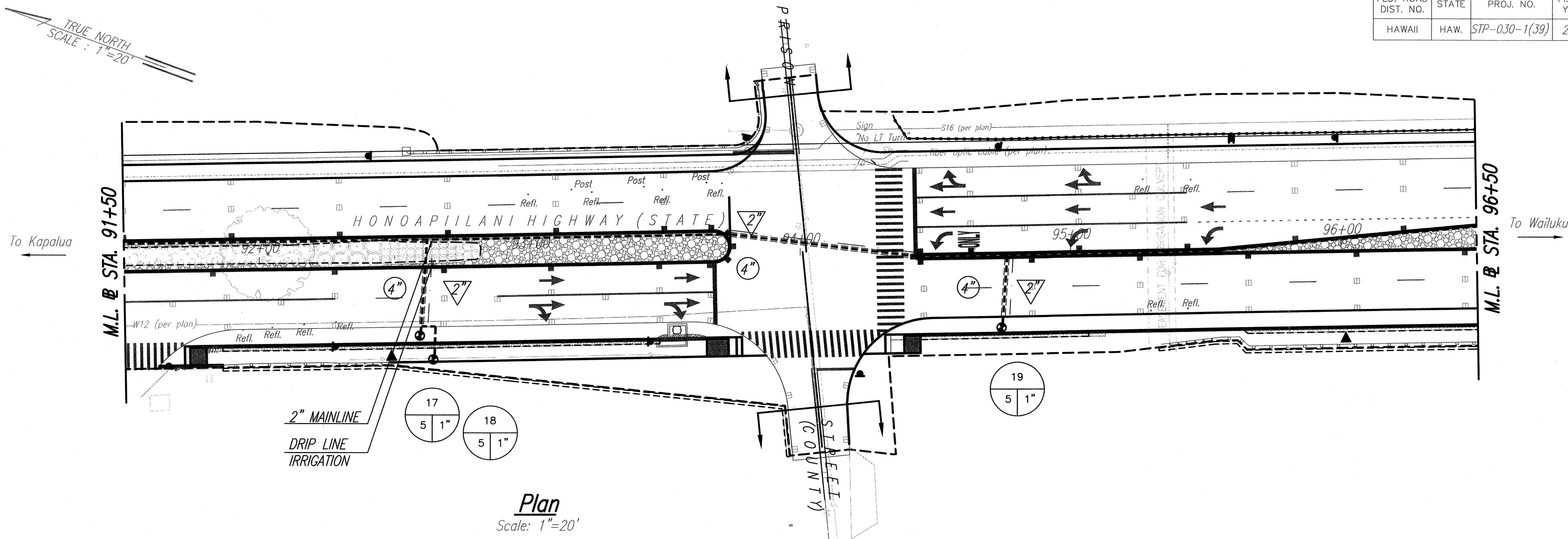
Scale: As Shown

Date: October 2008

SHEET No. 1-2 OF 1-10 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	176	194

194



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

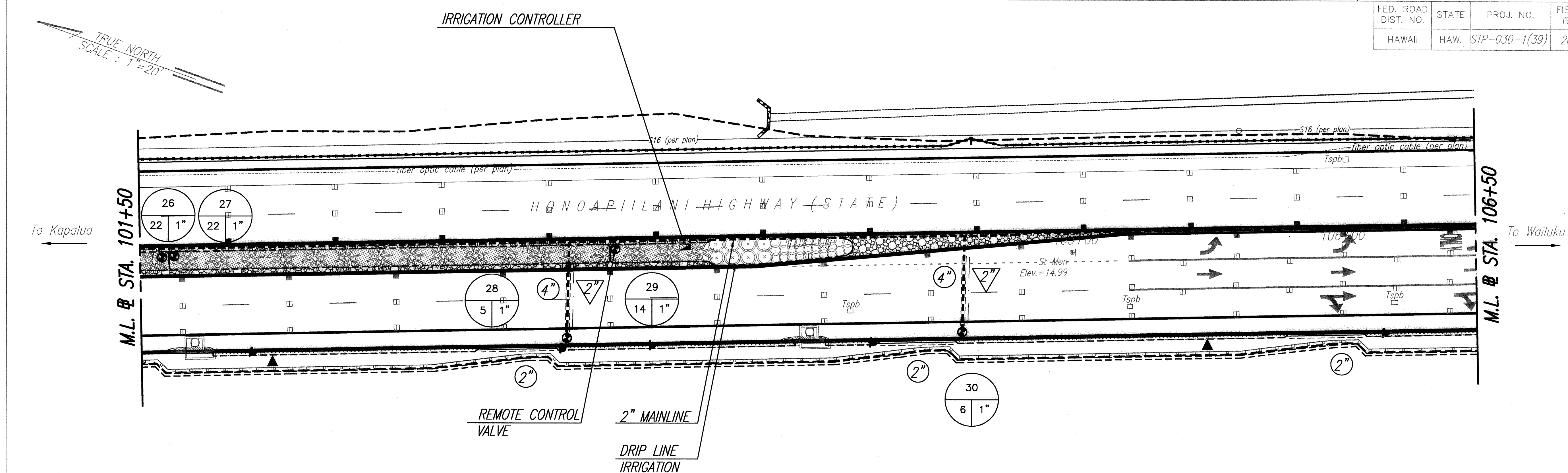
HONOAPIILANI HIGHWAY IRRIGATION PLANS

Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)

Scale: As Shown Date: October 2008

SHEET No. 1-3 OF 1-10 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	177	196 194



Plan
Scale: 1"=20'

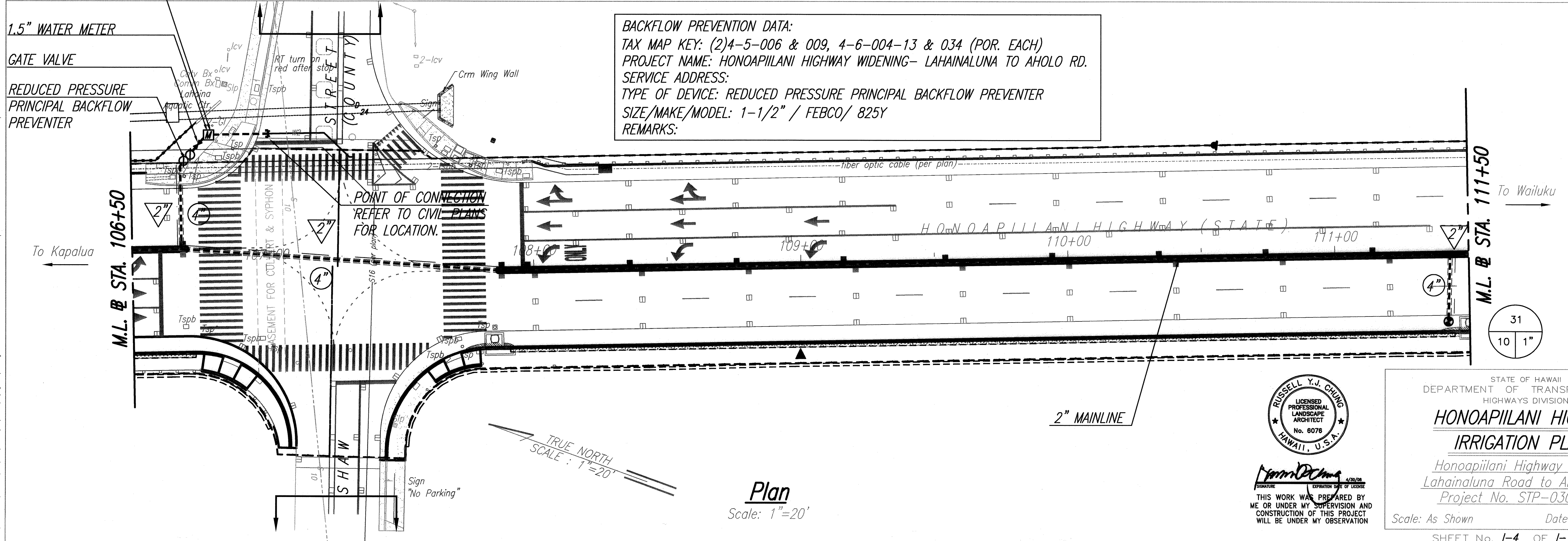
WATER MANHOLE
FOR NEW 1-1/2"
METER PER DWS
STD. M12

1.5" WATER METER

GATE VALVE

REDUCED PRESSURE
PRINCIPAL BACKFLOW
PREVENTER

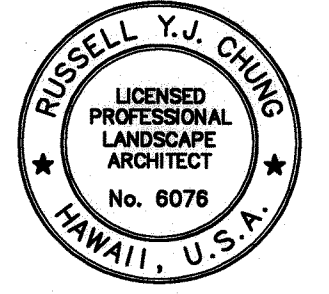
BACKFLOW PREVENTION DATA:
TAX MAP KEY: (2)4-5-006 & 009, 4-6-004-13 & 034 (POR. EACH)
PROJECT NAME: HONOAPIILANI HIGHWAY WIDENING- LAHAINALUNA TO AHOLO RD.
SERVICE ADDRESS:
TYPE OF DEVICE: REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTER
SIZE/MAKE/MODEL: 1-1/2" / FEBCO/ 825Y
REMARKS:



Plan
Scale: 1"=20'

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

PROJECT NAME: P:\PROJECTS\HAWAII\Honoapiilani Hwy Expansion\DWG\Irrigation_plans.dwg
LAST UPDATE: 12-25-2008 @ 02:12 pm
PLOT DATE: 08-03-2008 @ 02:58 pm



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**HONOAPIILANI HIGHWAY
IRRIGATION PLANS**

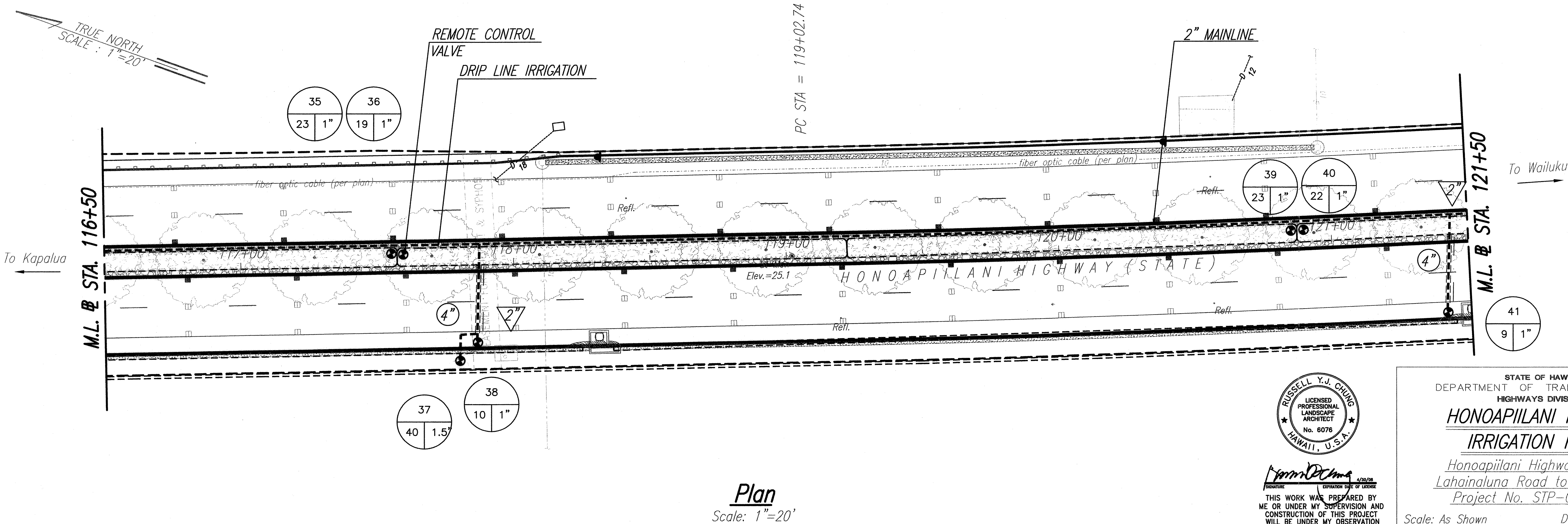
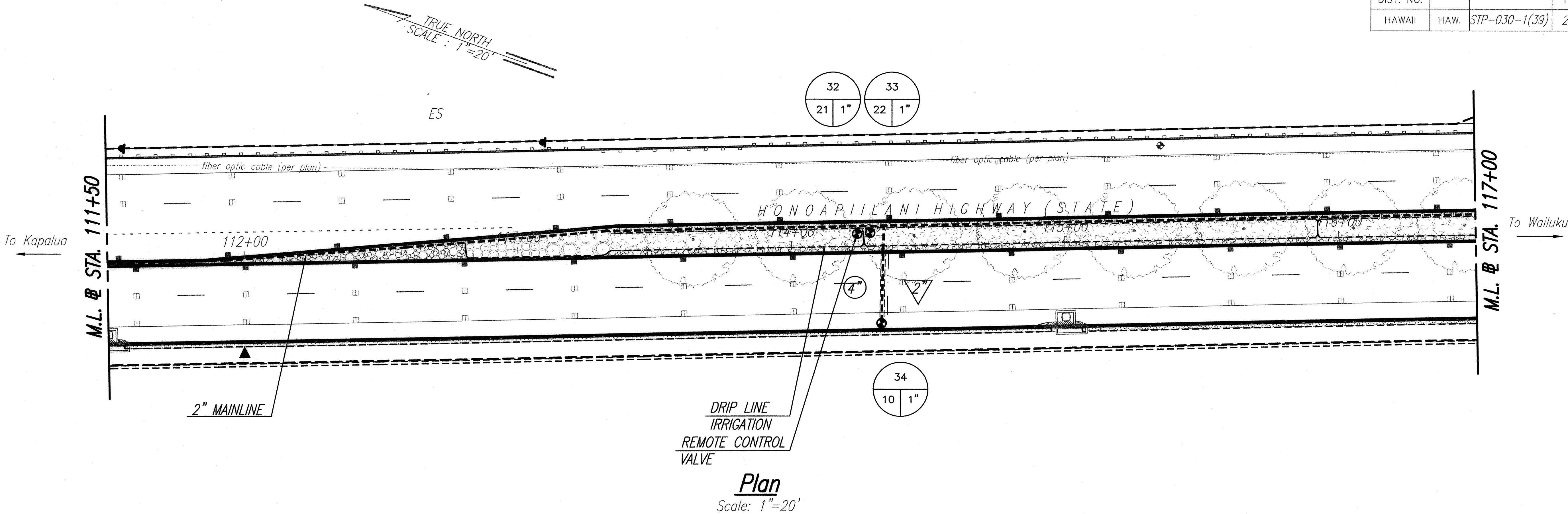
Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)

Scale: As Shown Date: October 2008

SHEET No. **I-4** OF **I-10** SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	178	199

194

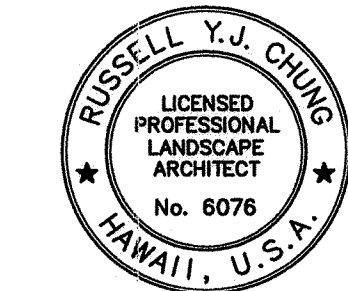


ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

3/21/2008 P:\PROJECTS\WMA\Honoapiilani Hwy Expansion\DWG\Irrigation_Layout.dwg

LAST UPDATE: 11-14-2008 @ 01:41 PM

PLOT DATE: 02-14-2008 @ 02:02 PM



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**HONOAPIILANI HIGHWAY
IRRIGATION PLANS**

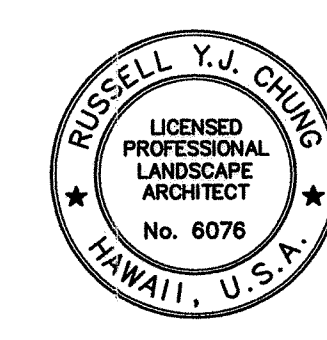
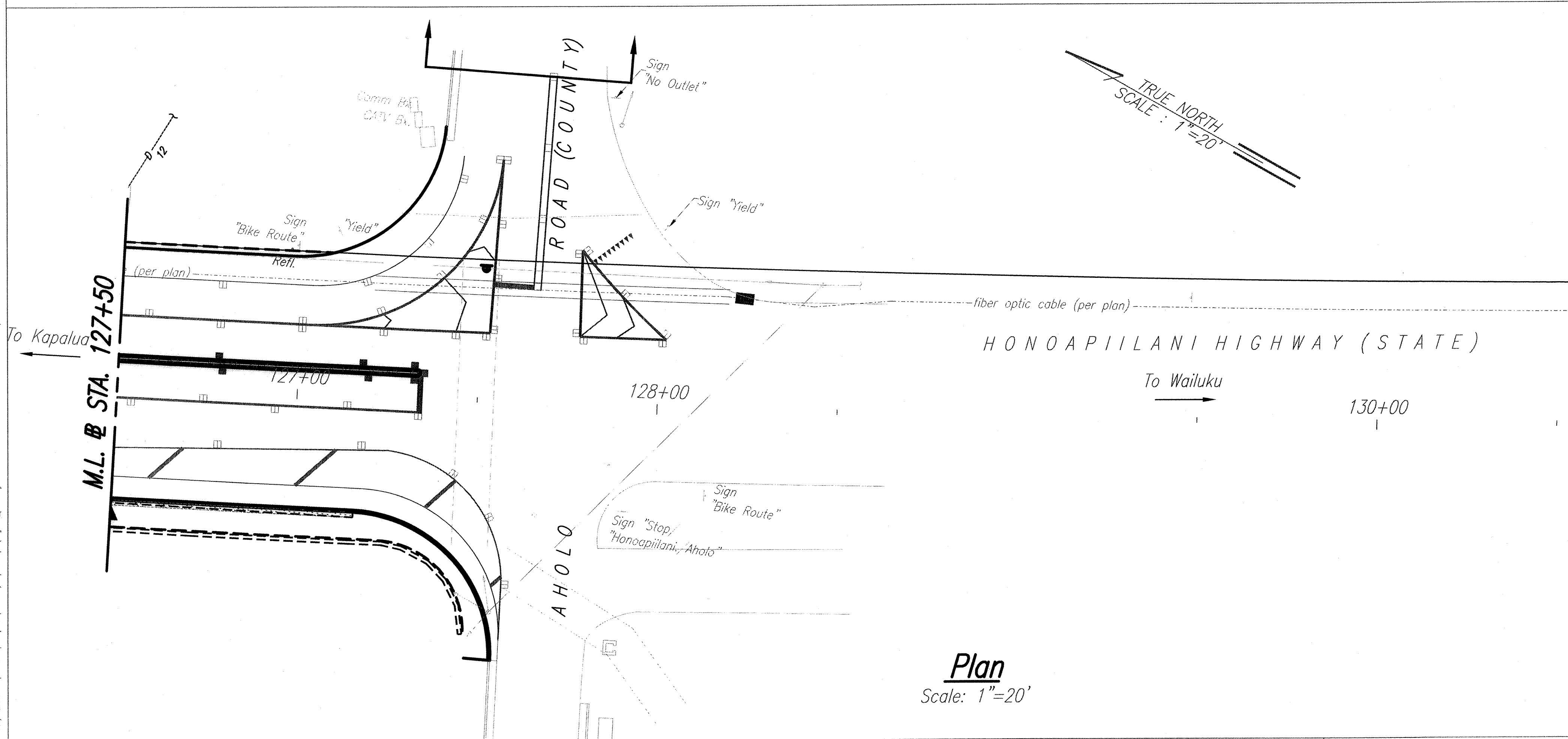
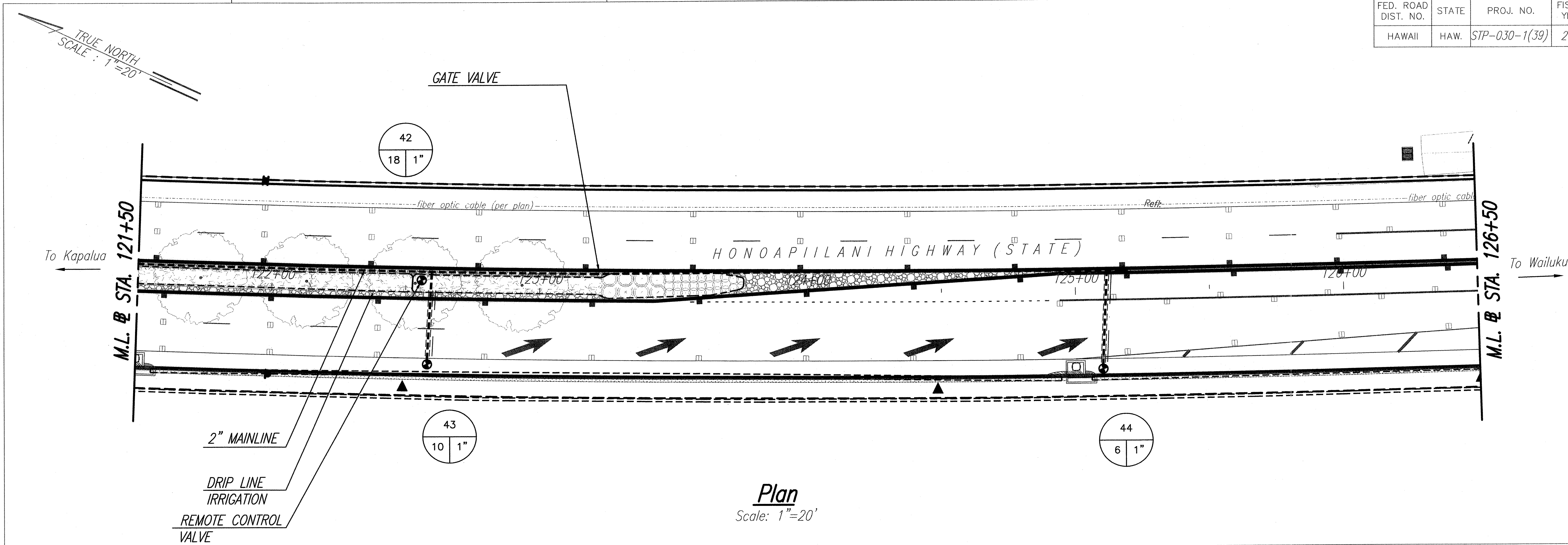
Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)

Scale: As Shown Date: October 2008
June 2008

SHEET No. 1-5 OF 1-10 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	179	195

194



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CONSTRUCTION OF THIS PROJECT
WILL BE UNDER MY OBSERVATION

Signature: *Russell Y.J. Chung*
Date: *October 2008*

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION





HONOAPIILANI HIGHWAY
IRRIGATION PLANS

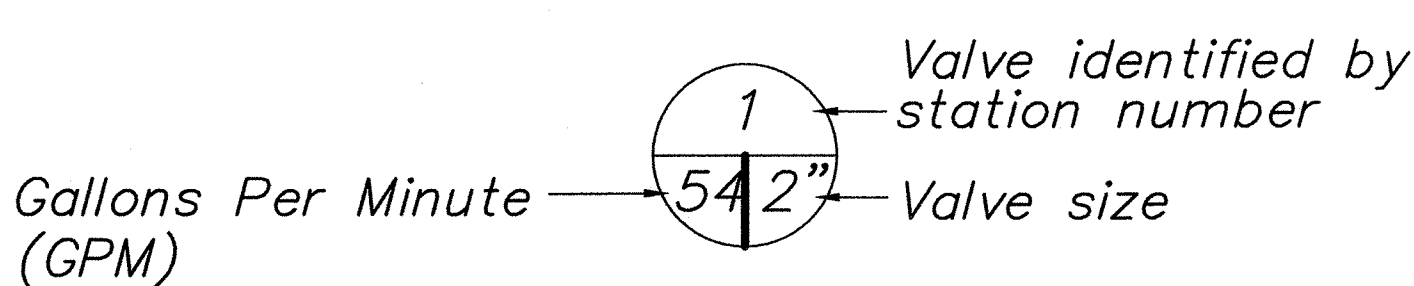
Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)

Scale: As Shown Date: *October 2008*


SHEET No. 1-6 OF 1-10 SHEETS


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	180	195

- | Irrigation Material Schedule | | | |
|---|--|--|--------|
| Symbol | Description | Manufacturer/catalog number | Detail |
|  | Remote Control Valve | Rainbird XCZ-100-B-COM or equal size as noted | • |
|  | Irrigation controller wall mount | Controller 44 Station Rainbird IM Series or approved equal | • |
| | Stainless steel strong box with pedestal | Strongbox Modell SB-18SS with PED-18SS or approved equal | |
|  | Gate Valve | Nibco T-113, or equal 2" size | • |
| ----- | Irrigation Mainline | Schedule 40 PVC, 2" size | • |
| ———— | Irrigation Lateral | Class 200 PVC, 1" size | • |
|  | Irrigation Sleeve | Schedule 40 PVC, size as detailed | • |
| — · — · — · — | Irrigation Conduit | Schedule 80 PVC, size as noted | • |
| | | | |



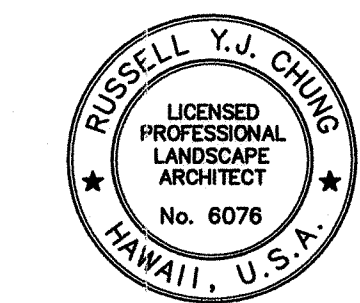
VALVE FLAG


Conduit size \rightarrow  CONDUIT CALL OUT

Sleeve size \rightarrow  SLEEVE CALL OUT

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY _____	_____
	TRACED BY _____	_____
	DESIGNED BY _____	_____
	QUANTITIES BY _____	_____
No. _____	CHECKED BY _____	_____
	_____	_____

PATH/FILENAME: P:\PROJECTS\MAU\Honoopili Hwy Expansion\DD\irrigation_plans.dwg LAST UPDATE: 4-14-2008 @ 01:41 pm PLOT DATE: 5-14-2008 @ 02:53 pm



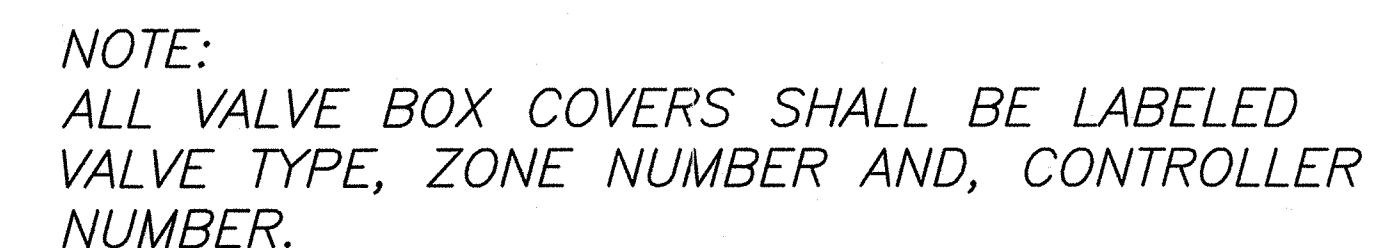

 SIGNATURE _____ 4/30/08
 EXPIRATION DATE OF LICENSE _____
 THIS WORK WAS PREPARED BY _____
 ME OR UNDER MY SUPERVISION AND _____
 CONSTRUCTION OF THIS PROJECT _____
 WILL BE UNDER MY OBSERVATION _____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HONOAPIILANI HIGHWAY
LEGEND AND NOTES

*Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)*

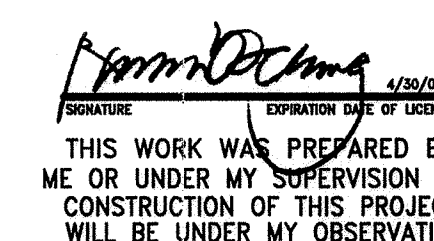
Scale: As Shown Date: ~~October 2008~~
~~June 2007~~

194

GATE VALVE DETAIL
SCALE: NOT TO SCALE

LOT DATE: 53-14-2008 @ 02:53 PM

PATH/FILENAME: P:\PROJECTS\MAIN\Homozytiani Hwy Expansion\09\Irrigation planning
LAST UPDATE: 4/14/2008 @ 01:41 PM



Scale: _____ Date: ~~June 2007~~ October 2008