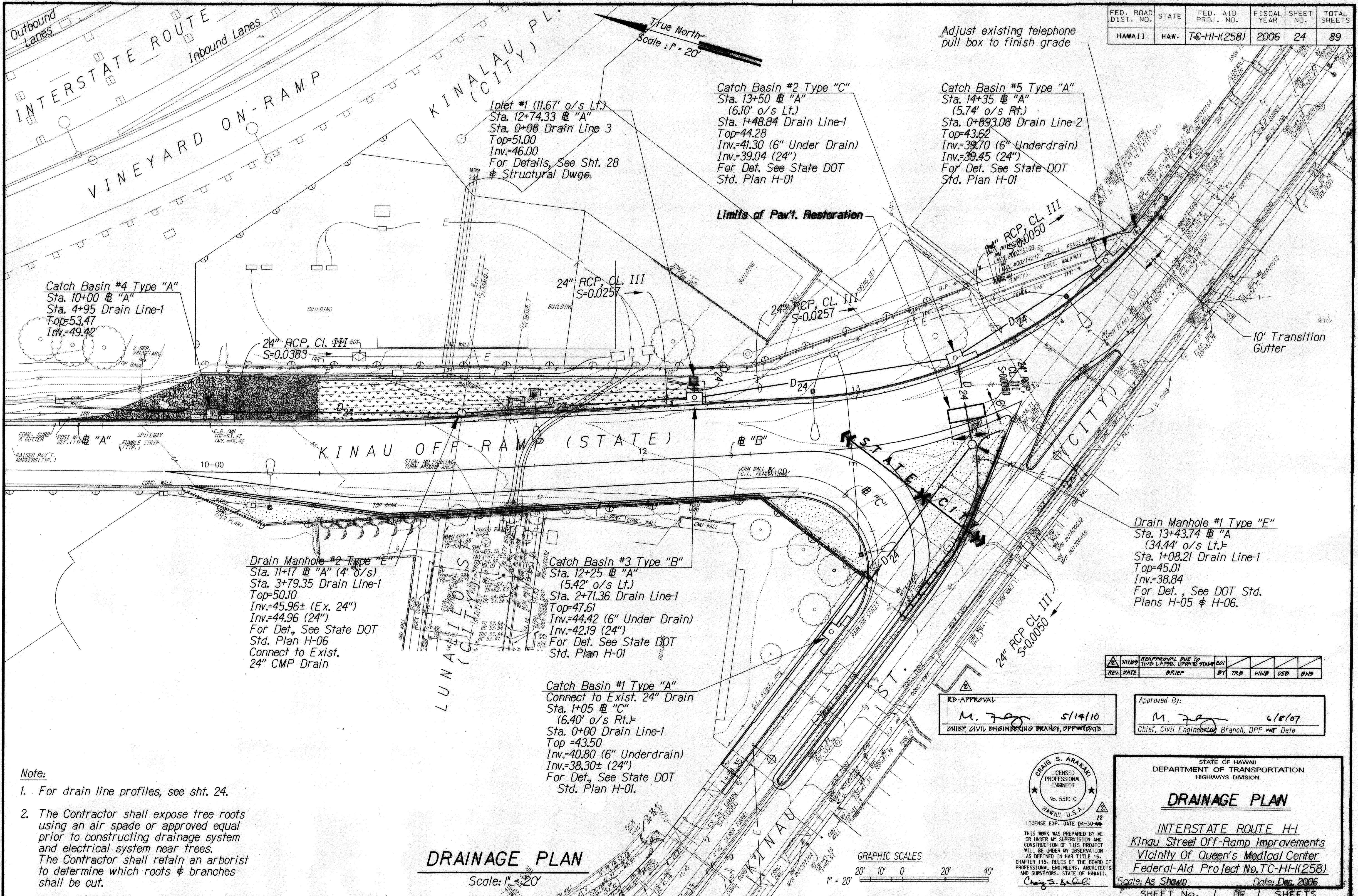
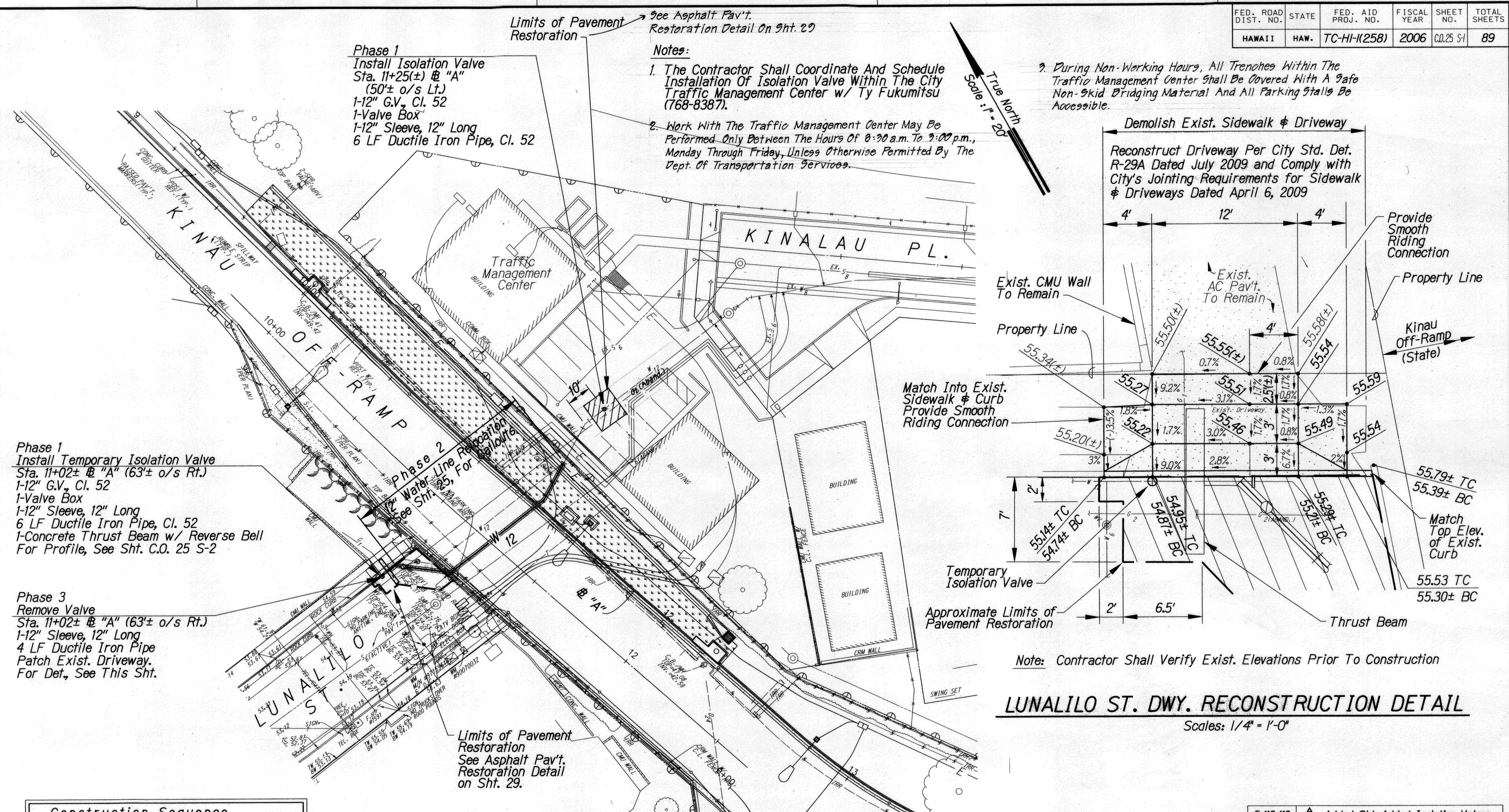


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TC-HI-(258)	2006	24	89



DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
IN CHARGE	_____
APPROVED BY	_____
DATE	_____

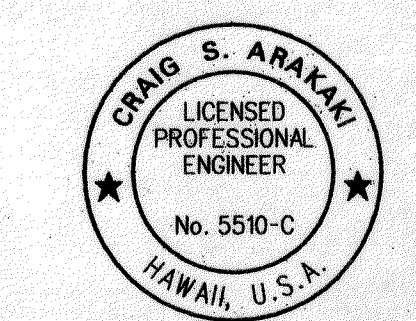
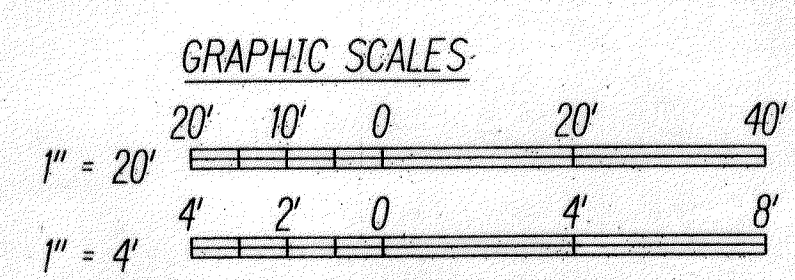
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TC-HI-K(258)	2006	C.O.25 S-1	89



Construction Sequence	
Phase 1	Install Isolation Valves Close Valves
Phase 2	Relocated 12" Water Line For Callouts, See Sht. 25 Open Isolation Valves
Phase 3	Remove Temporary Isolation Valve Along Lunalilo St. Prior to Valve Removal, Verify With BWS If Removal is Required. Isolation Valve Within Traffic Management Center Shall Remain.

PLAN - ISOLATION VALVES
 Scales: 1" = 20'

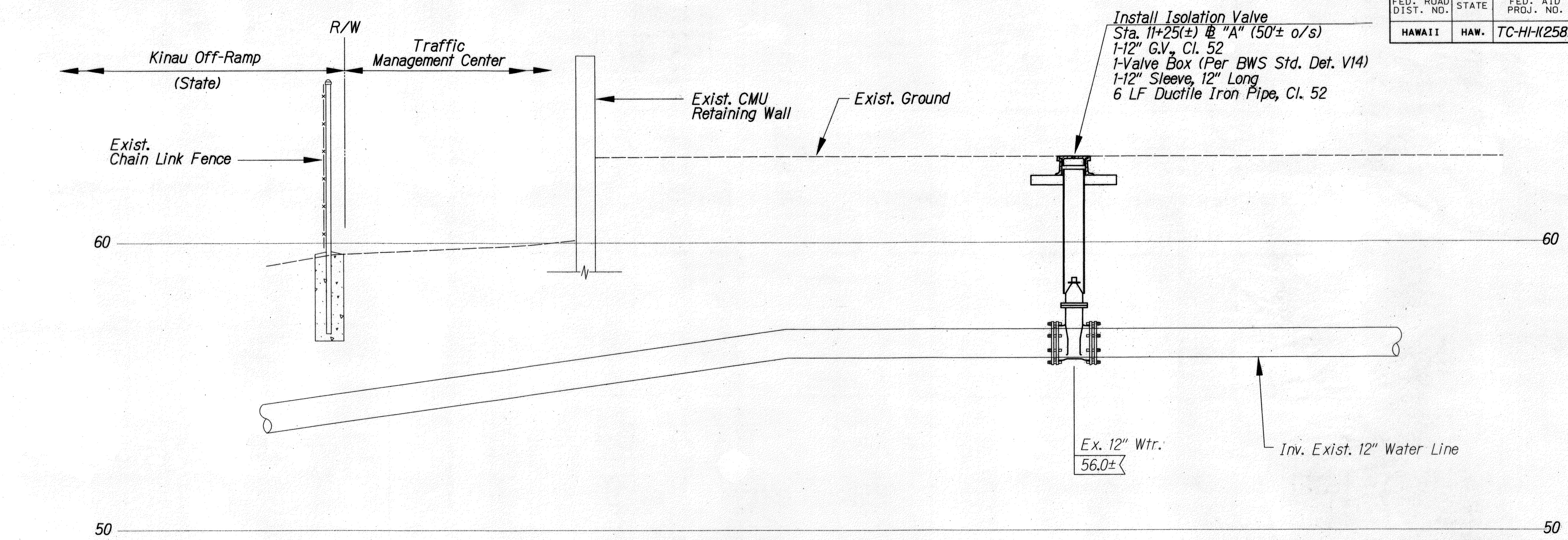
Approved By:
[Signature] 5/28/10
 Chief, Capital Projects Division, BWS Date
[Signature] 5/28/10
 Chief, Civil Engineering Branch, DPP Date



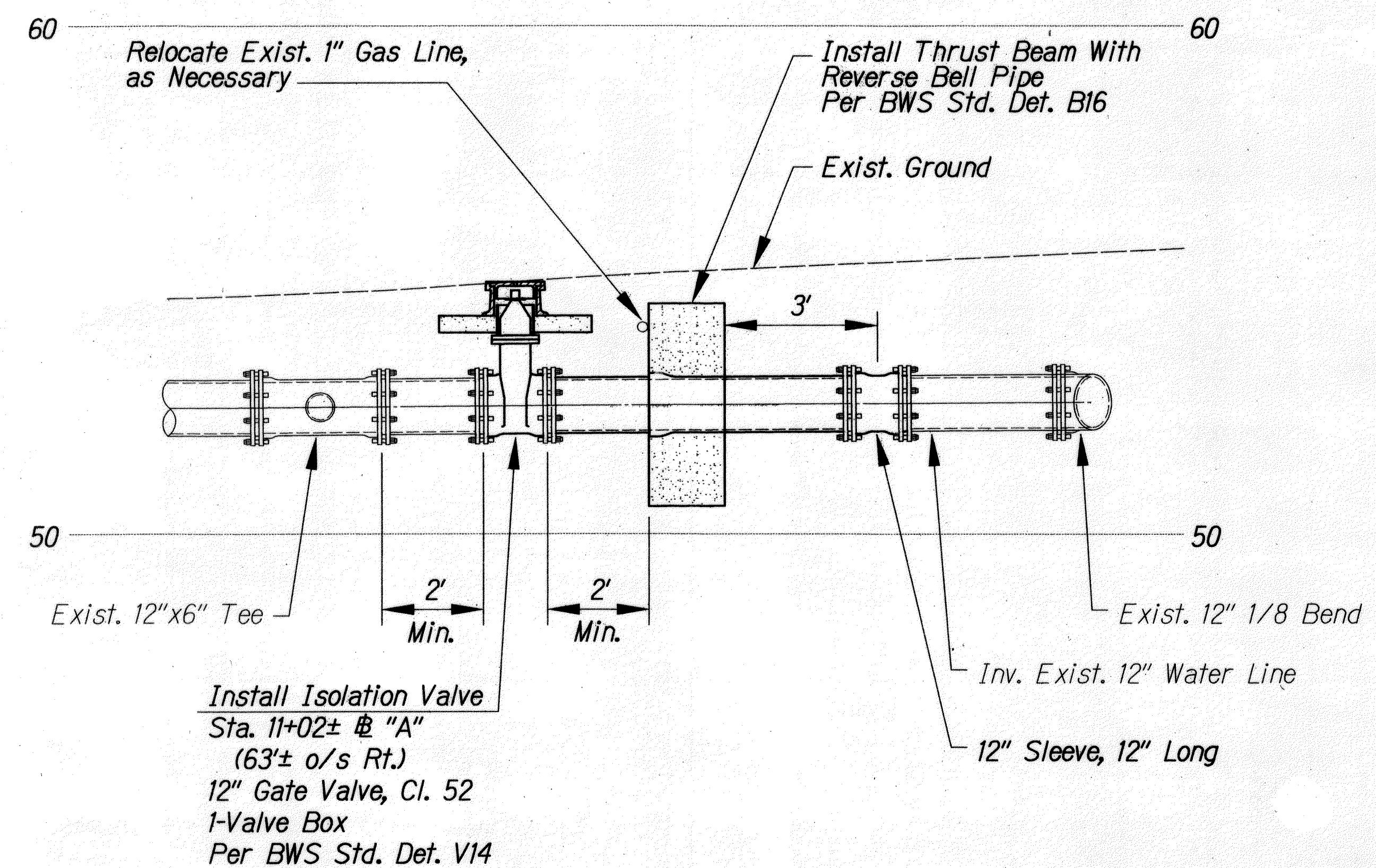
LICENSE EXP. DATE 04-30-12
 THIS WORK WAS PREPARED BY ME
 OR UNDER MY SUPERVISION AND
 CONSTRUCTION OF THIS PROJECT
 WILL BE UNDER MY OBSERVATION
 AS DEFINED IN H.A.R. TITLE 16,
 CHAPTER 115, RULES OF THE BOARD OF
 PROFESSIONAL ENGINEERS, ARCHITECTS
 AND SURVEYORS, STATE OF HAWAII.
Craig S. Arakaki

5/18/10	Added Sht. Added Isolation Valves
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ISOLATION VALVE PLAN	
INTERSTATE ROUTE H-1 Kinlau Street Off-Ramp Improvements Vicinity Of Queen's Medical Center Federal-Aid Project No. TC-HI-K(258)	
Scale: As Shown	Date: Dec. 2006
SHEET No. 1 OF 1 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TC-HI-K(258)	2006	C.O. 25 S-2	89



ELEVATION - ISOLATION VALVE @ TRAFFIC MANAGEMENT CENTER
 Scales: 1/2" = 1'-0"

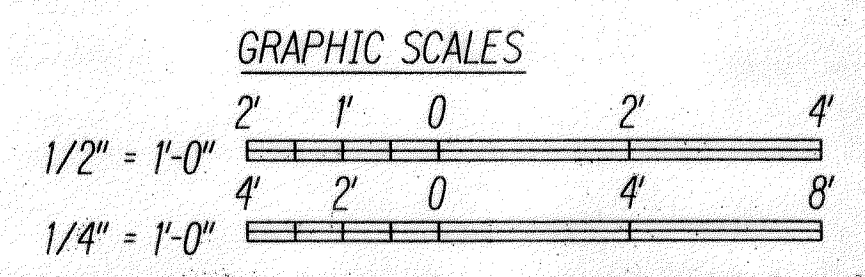


ELEVATION - ISOLATION VALVE @ LUNALILO ST.
 Scales: 1/2" = 1'-0"

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
DATE	

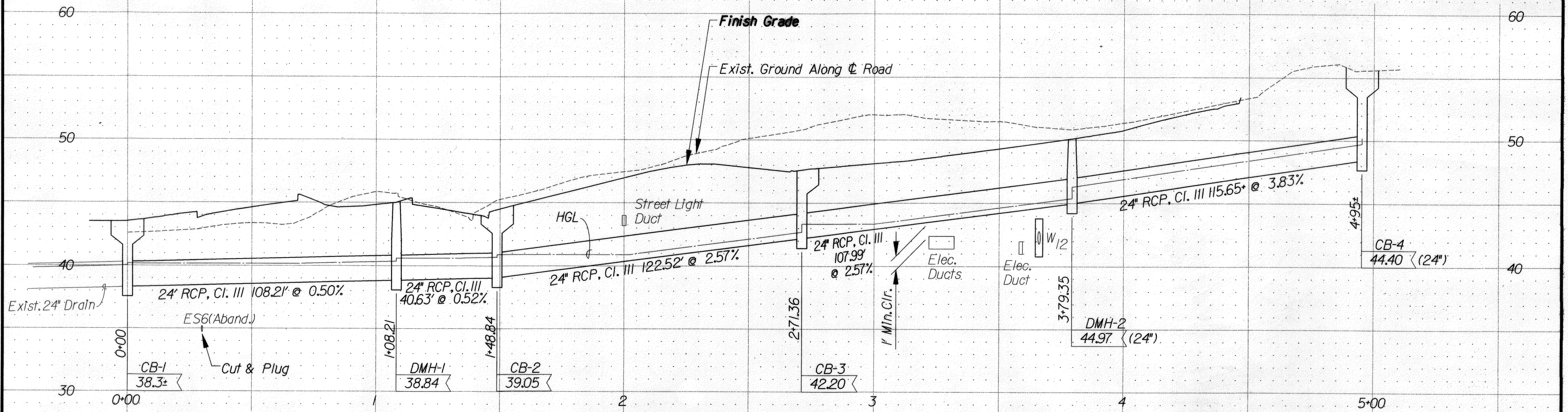
Approved By: *[Signature]* 5/28/10
 Chief, Capital Projects Division, BWS Date

CRAIG S. ARAKAKI
 LICENSED PROFESSIONAL ENGINEER
 No. 5510-C
 HAWAII, U.S.A.
 LICENSE EXP. DATE 04-30-12
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN HAWAII TITLE 16, CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII.
Craig S. Arakaki

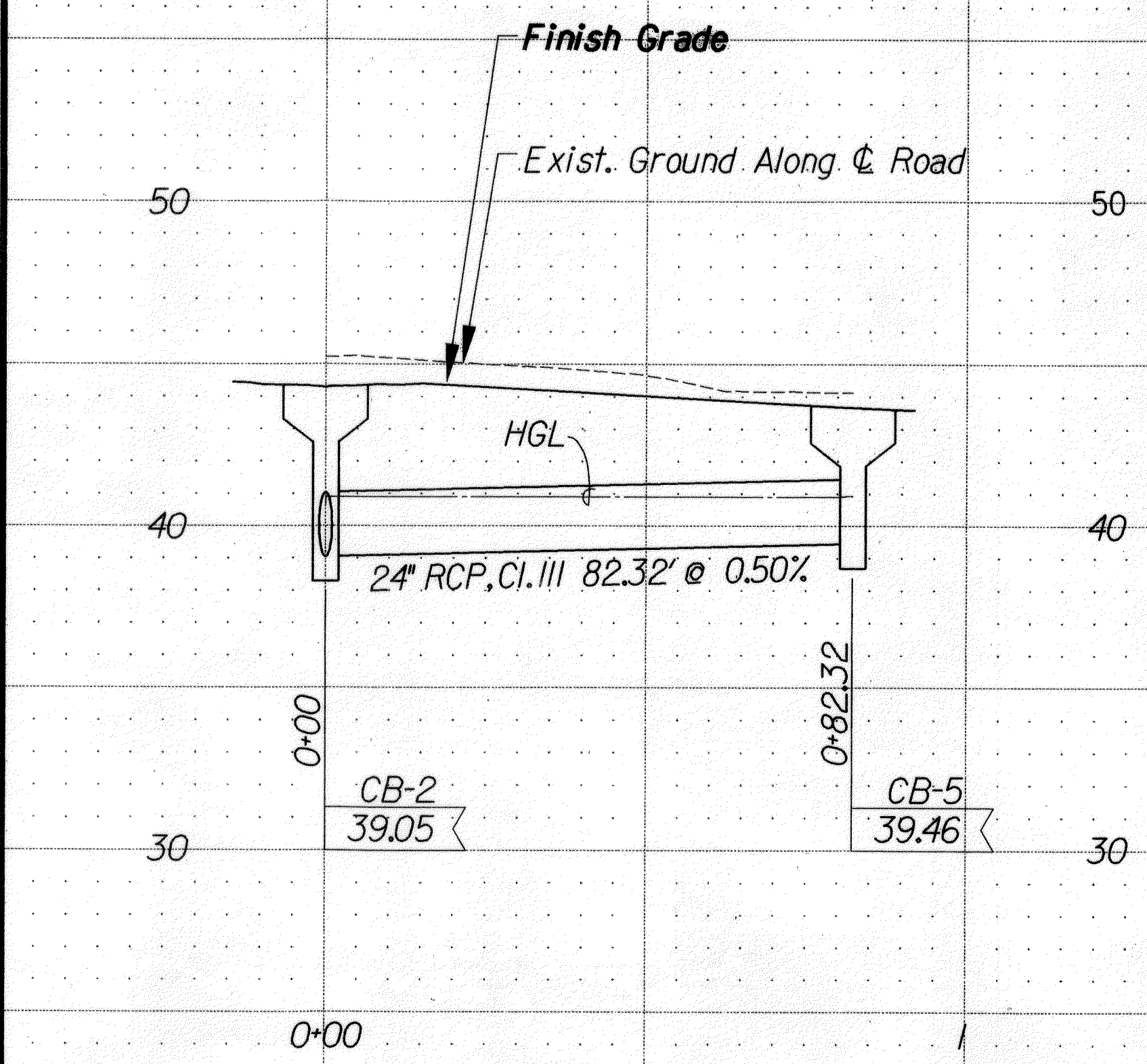


5/18/10	Added Sht. Added Isolation Valves
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ISOLATION VALVE DETAILS	
INTERSTATE ROUTE H-1 Kinau Street Off-Ramp Improvements Vicinity Of Queen's Medical Center Federal-Aid Project No. TC-HI-K(258)	
Scale: As Shown	Date: Dec. 2006
SHEET No. 1 OF 1 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TC-HI-K258	2006	26	89



DRAIN LINE - 1
 Scales: Horiz. 1" = 20'
 Vert. 1" = 4'



DRAIN LINE - 2
 Scales: Horiz. 1" = 20'
 Vert. 1" = 4'

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
DATE	

RE-APPROVAL

M. [Signature] 5/14/10

CHIEF, CIVIL ENGINEERING BRANCH, DPP W/DATE

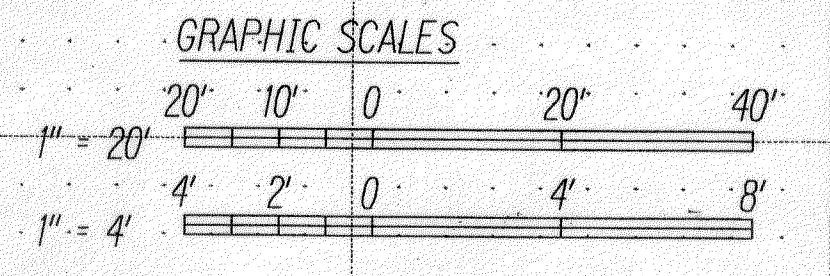
REV.	DATE	DESCRIPTION	BY	TRD	HND	CEB	DNS
1	11/1/09	RE-APPROVAL DUE TO TIME Lapse UPDATE STAMP	EUI				

Approved By:

M. [Signature] 6/8/07

Chief, Civil Engineering Branch, DPP W/DATE

CRAIG S. ARAKAKI
 LICENSED PROFESSIONAL ENGINEER
 No. 5510-C
 HAWAII, U.S.A.
 LICENSE EXP. DATE 04-30-12



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

DRAIN LINE PROFILES

INTERSTATE ROUTE H-1
 Kinohi Street Off-Ramp Improvements
 Vicinity Of Queen's Medical Center
 Federal-Aid Project No. TC-HI-K258

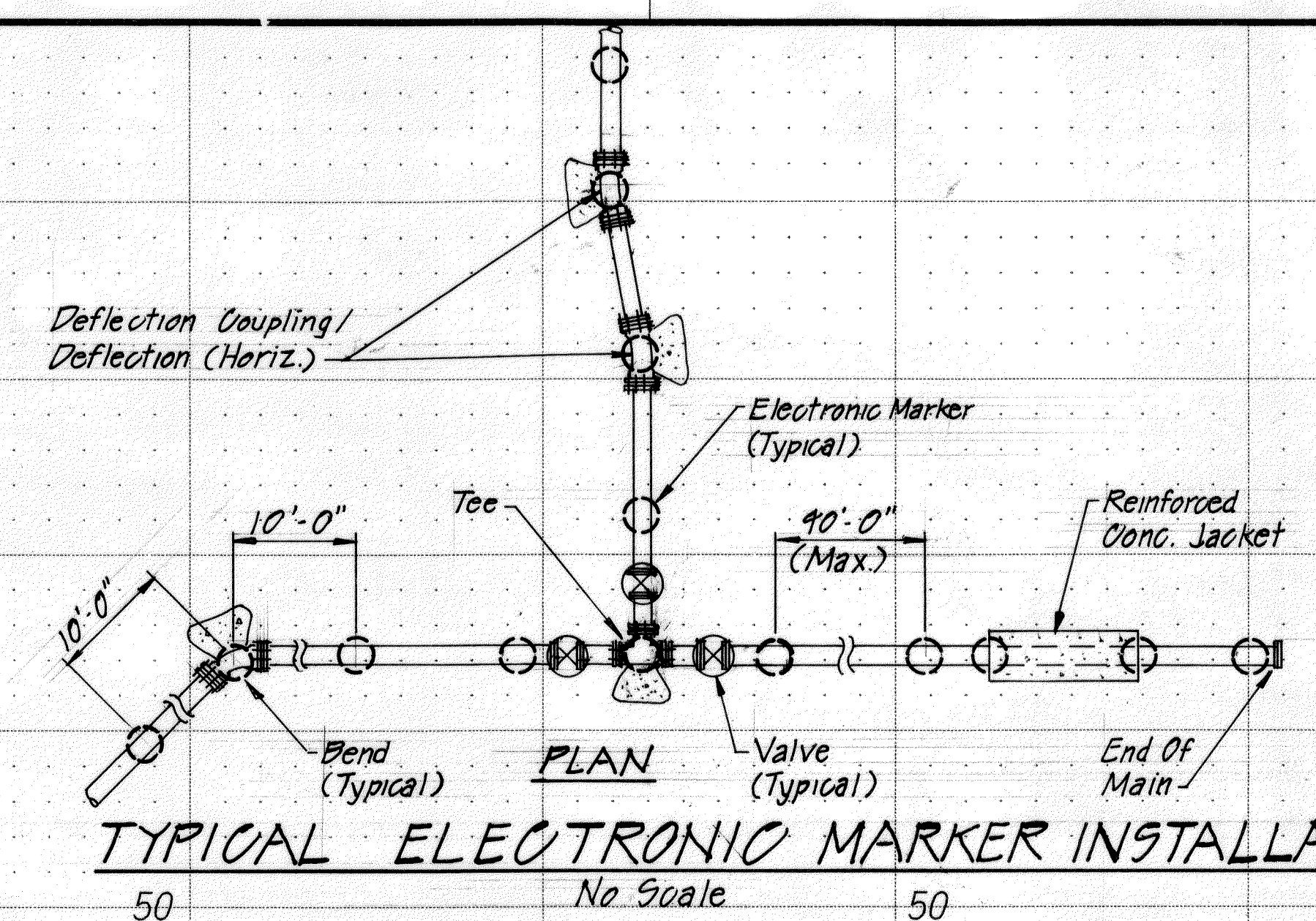
Scale: As Shown Date: Dec. 2006

SHEET No. 1 OF 1 SHEETS

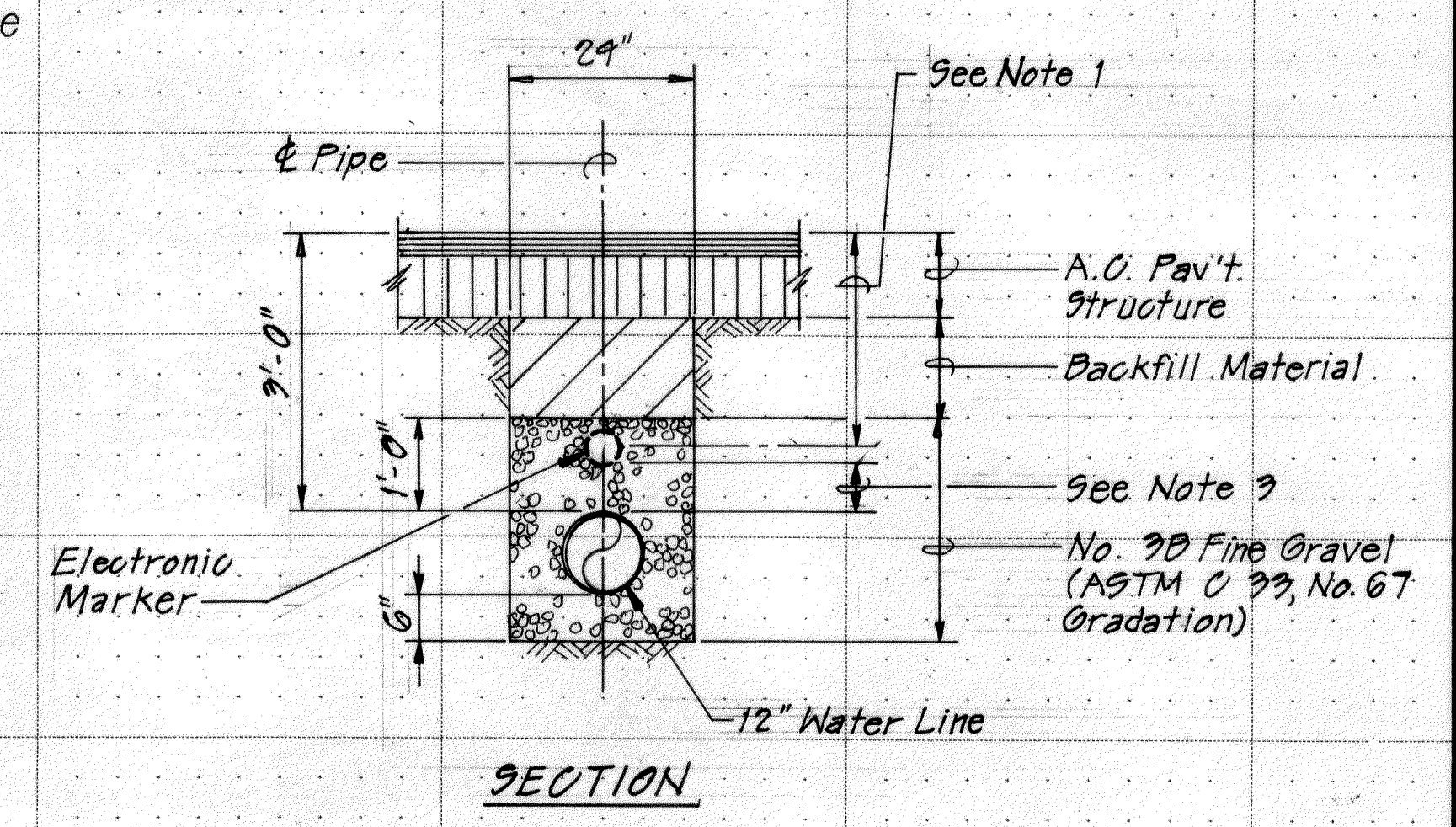
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TC-HI-K(258)	2006	27	89

Notes:

1. Install Electronic Marker Over Center Line Of Pipe At A Minimum Depth Of 9 Feet From Finish Grade.
2. Install Trench Backfill And Pipe Cushion Material In Accordance To The Plans And Specifications.
3. Install Electronic Marker At A Minimum Clearance Of 6-Inches, Where Possible, Install Marker On Or Above Concrete Jacket.
4. The Contractor Shall Install Electronic Markers To All Mains And Test The Electronic Markers Prior To Installations To Verify Proper Operation. BWS Personnel Shall Verify The Number And Locations Of Placed Electronic Markers Before Final Paving Of The Project.



TYPICAL ELECTRONIC MARKER INSTALLATION



SECTION

