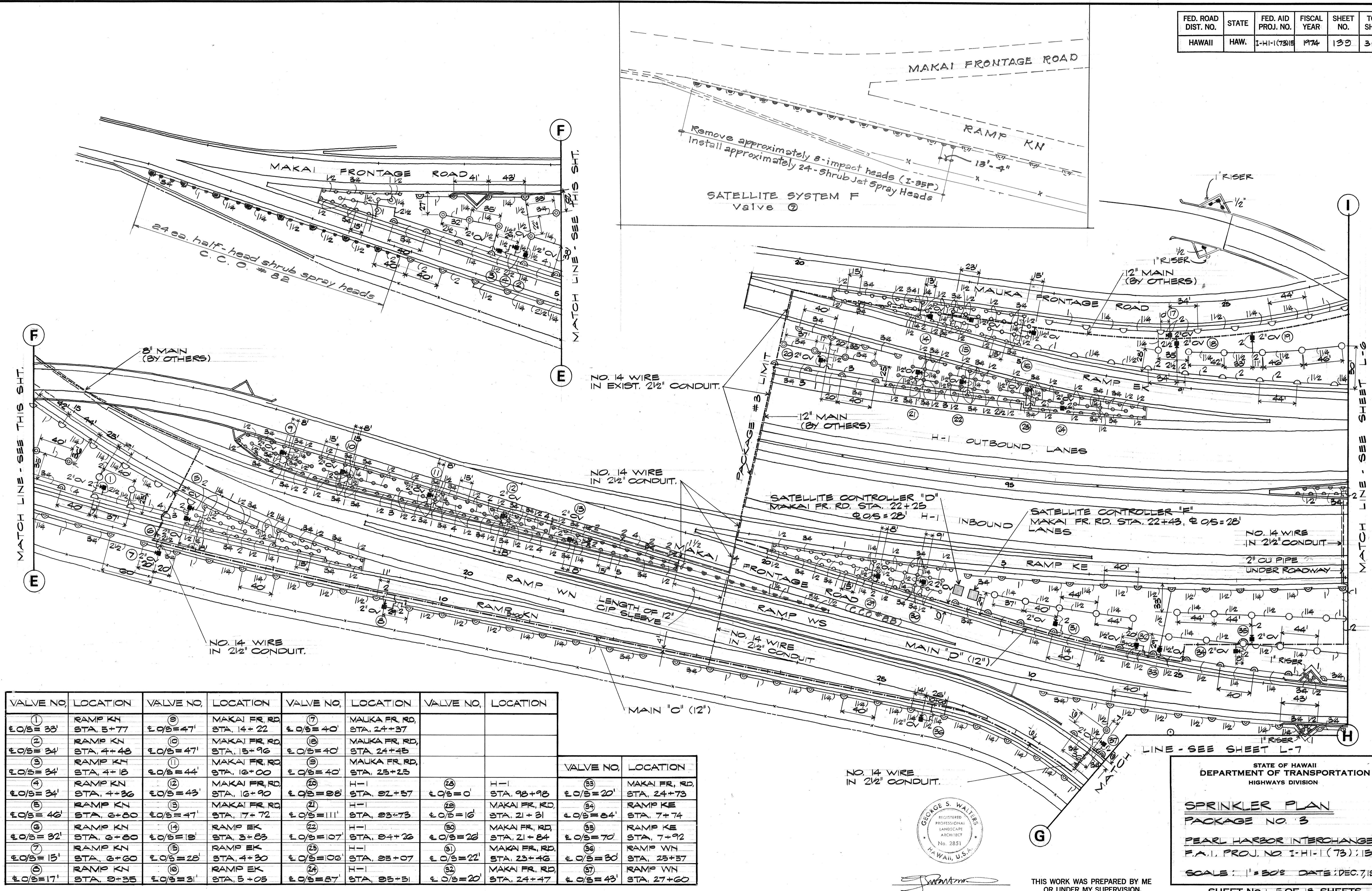


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(73)15	1974	139	369



**THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION**

**STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION**

SPRINKLER PLAN  
PACKAGE NO. 3

# PEARL HARBOR INTERCHANGE

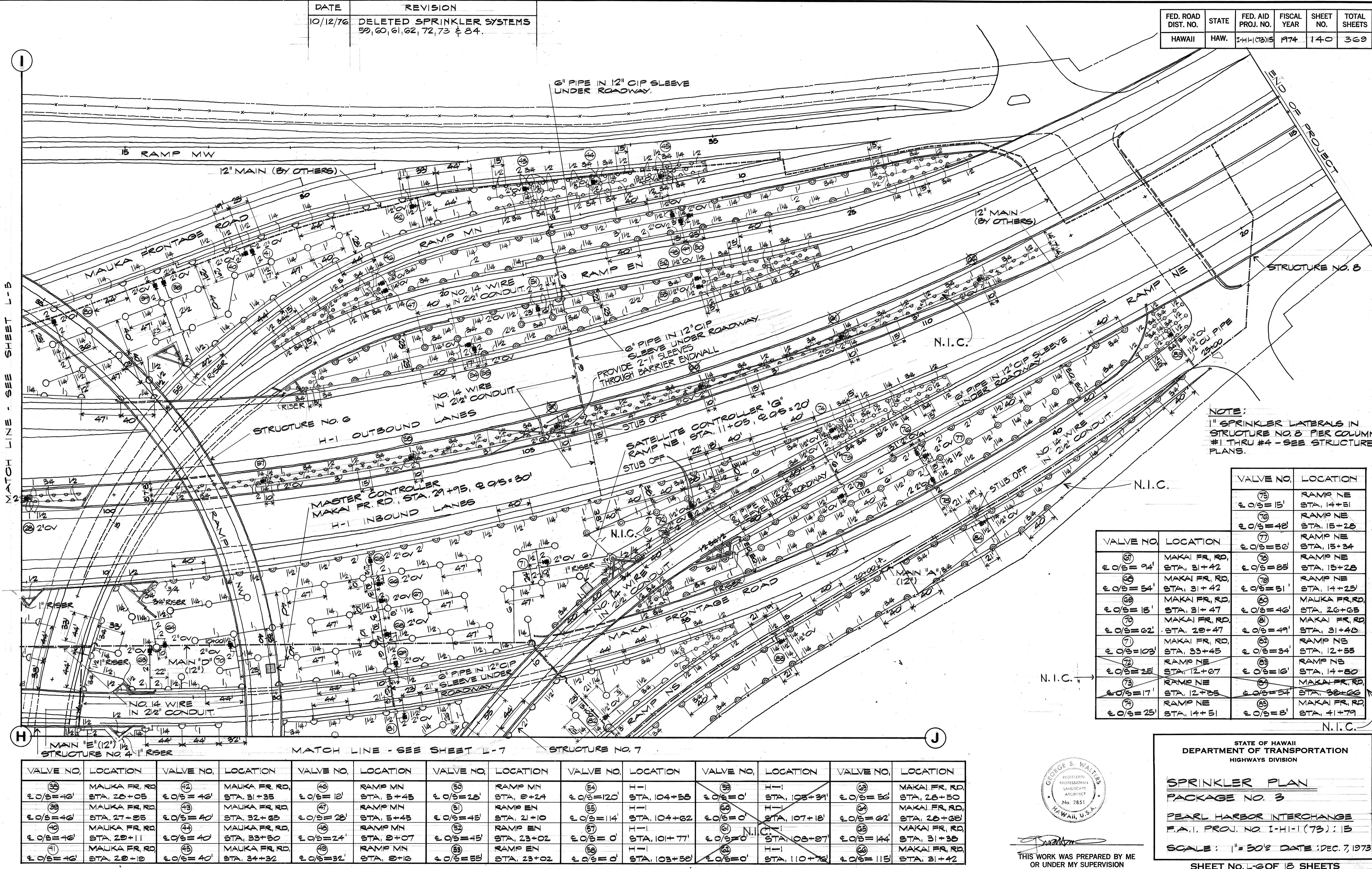
F.A.I. PROJ. NO. I-H-1 (73) : 5  
SCALE : 1" = 50' DATE : DEC. 7, 1973

**SHEET NO. L-5 OF 18 SHEETS**

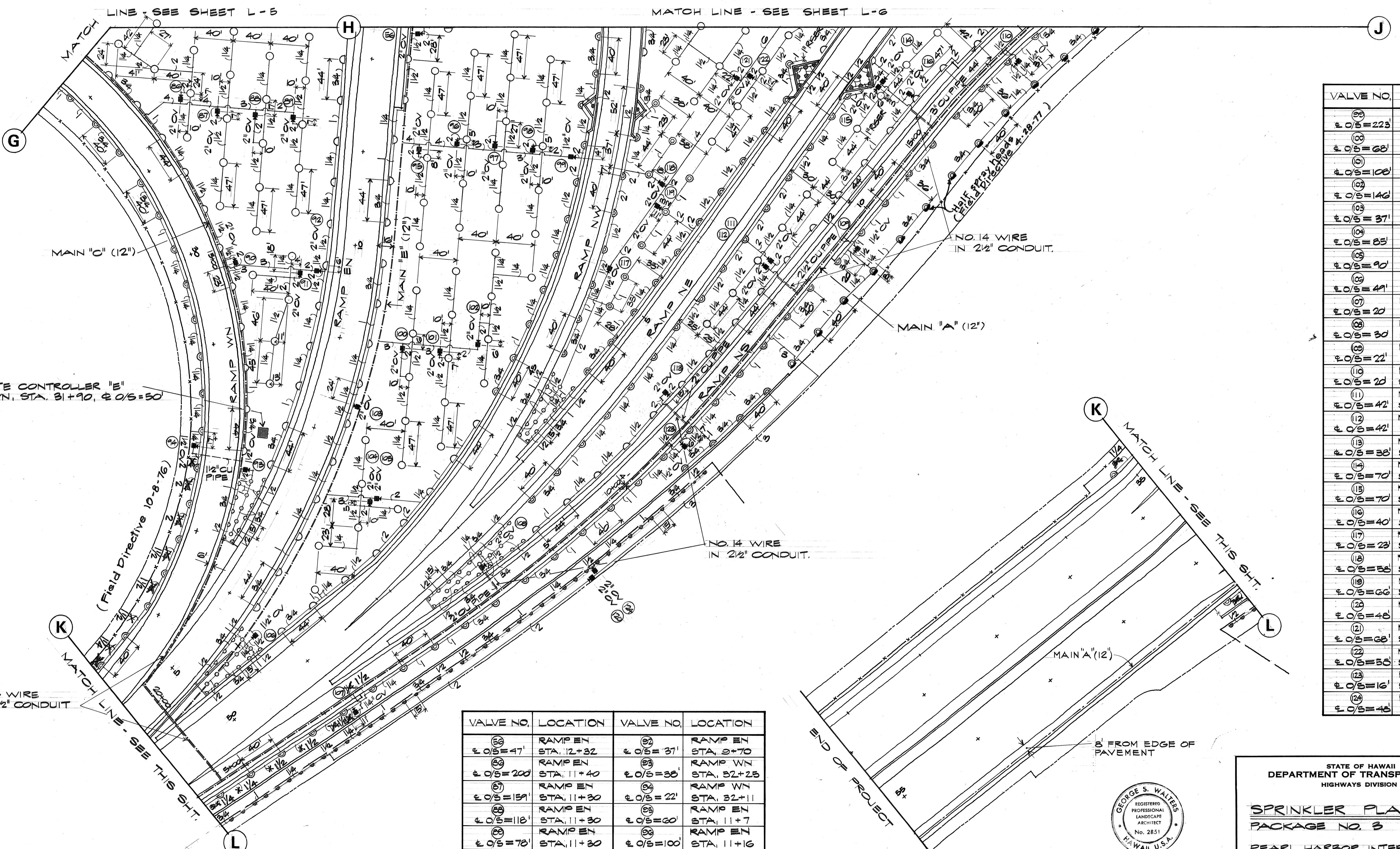
SHEET NO. L-5 OF 8 SHEETS

DATE: 10/12/76 REVISION: DELETED SPRINKLER SYSTEMS  
59, 60, 61, 62, 72, 73 & 84.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(73)5	1974	140	369



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(73)5	1974	141	369



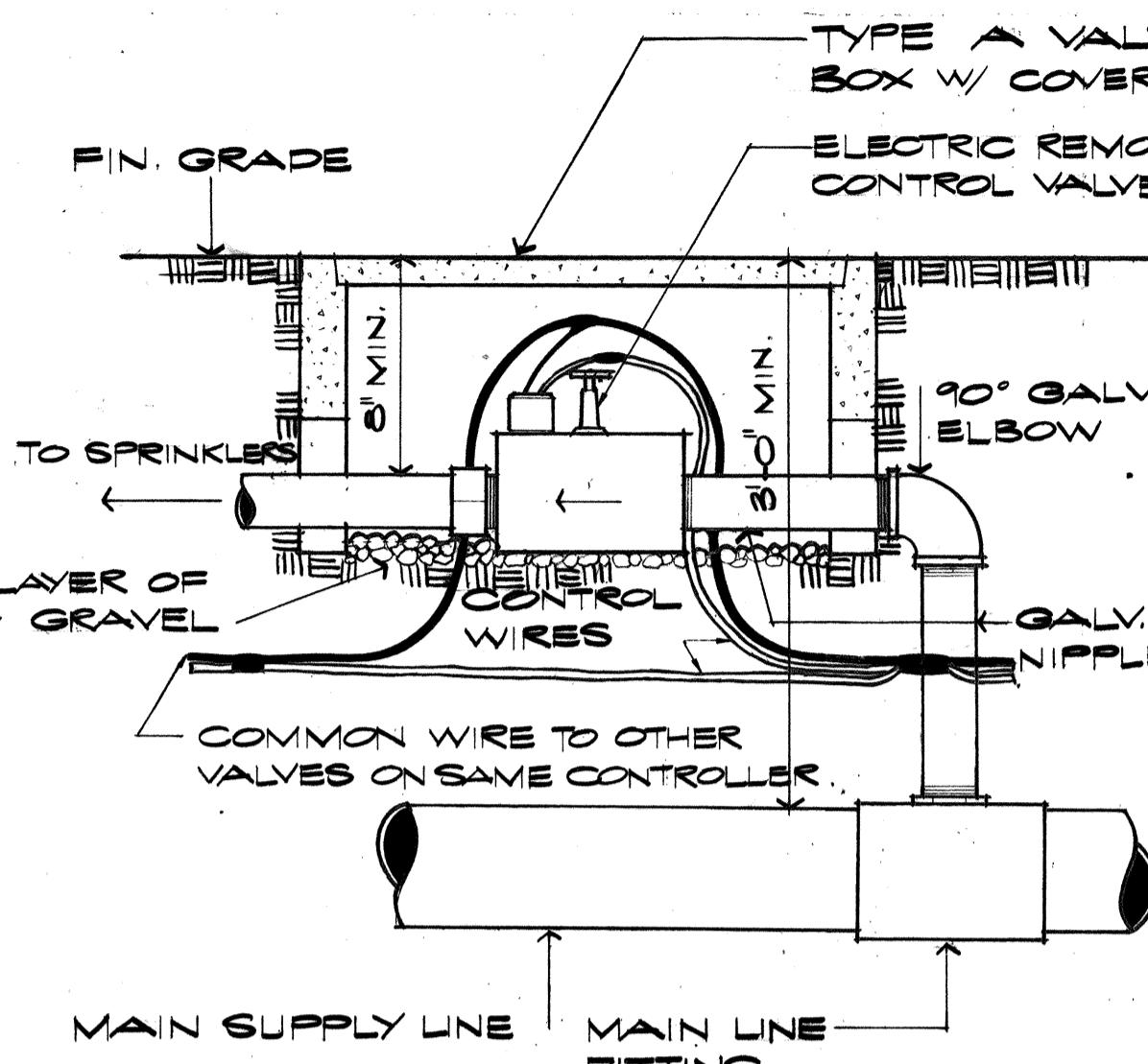
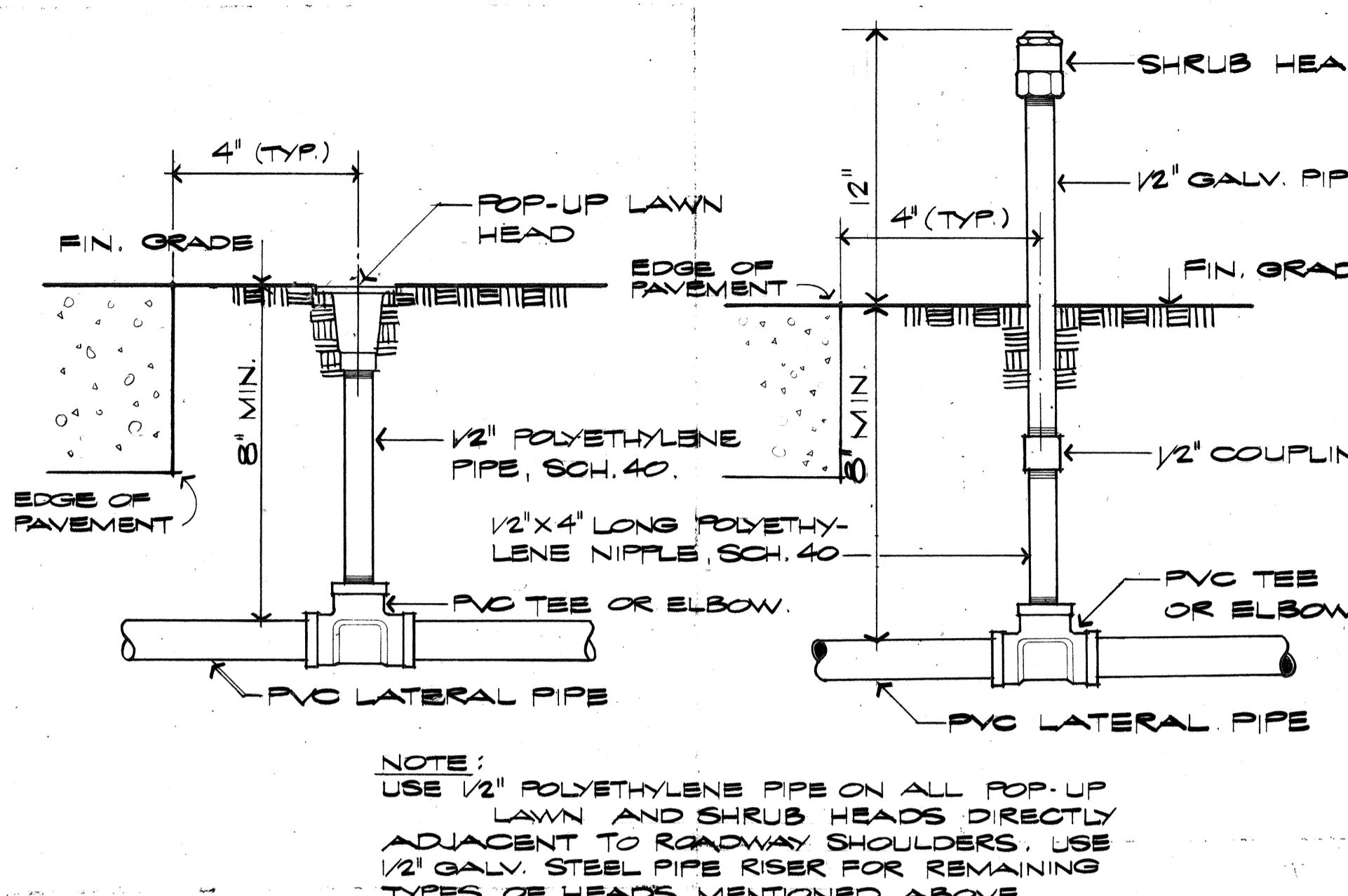
ORIGINAL SURVEY PLOTTED BY	DATE
PLAN DRAWN BY	"
NOTE BOOK TRACED BY	"
DESIGNED BY	"
QUANTITIES BY	"
CHECKED BY	"
No.	"



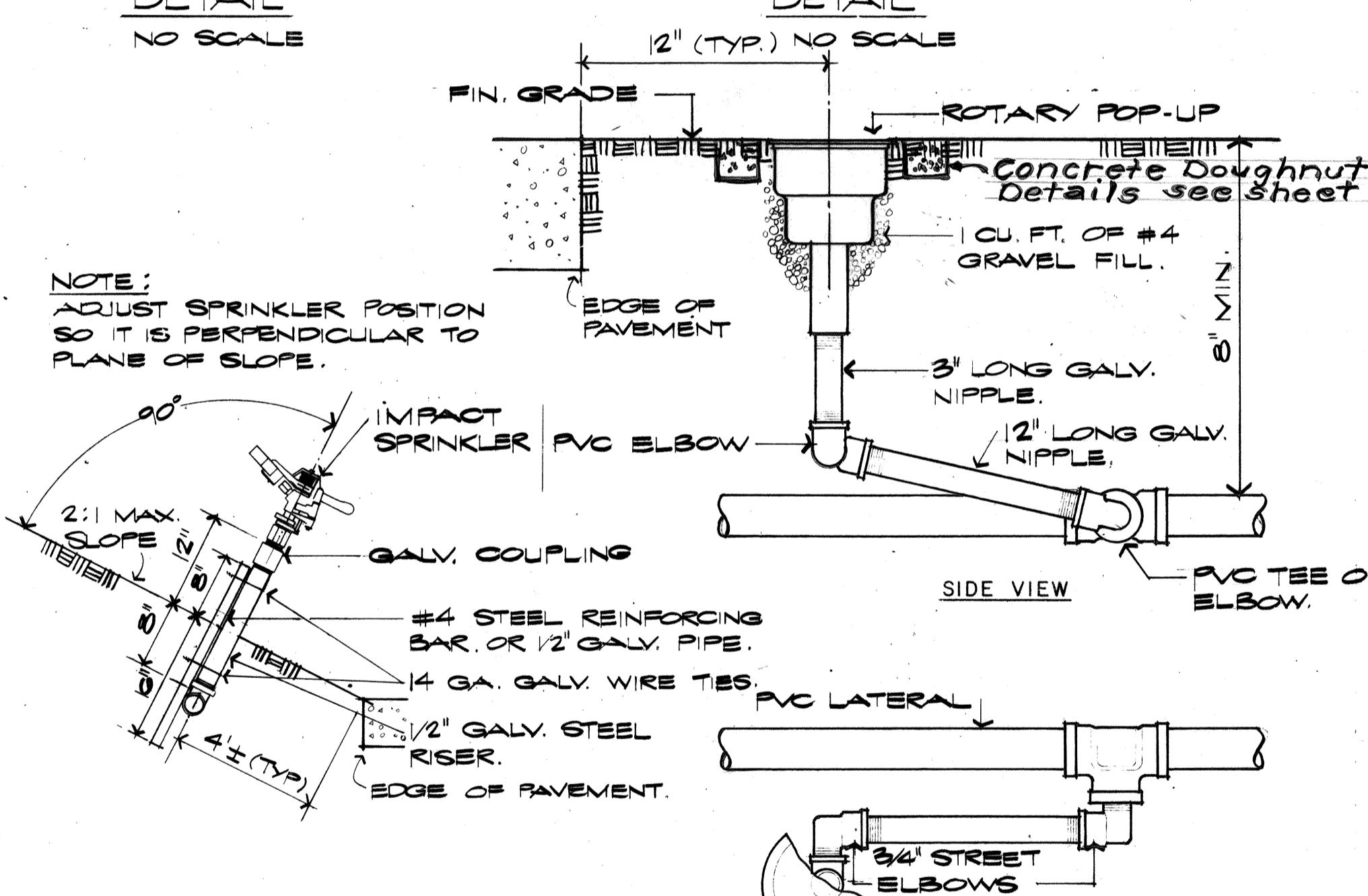
THIS WORK WAS PREPARED BY ME  
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
  
SPRINKLER PLAN  
PACKAGE NO. 3  
  
PEARL HARBOR INTERCHANGE  
F.A.I. PROJ. NO. I-HI-1 (73) : 15  
SCALE: 1" = 50' DATE: DEC. 7, 1973  
SHEET NO. L-7 OF 18 SHEETS

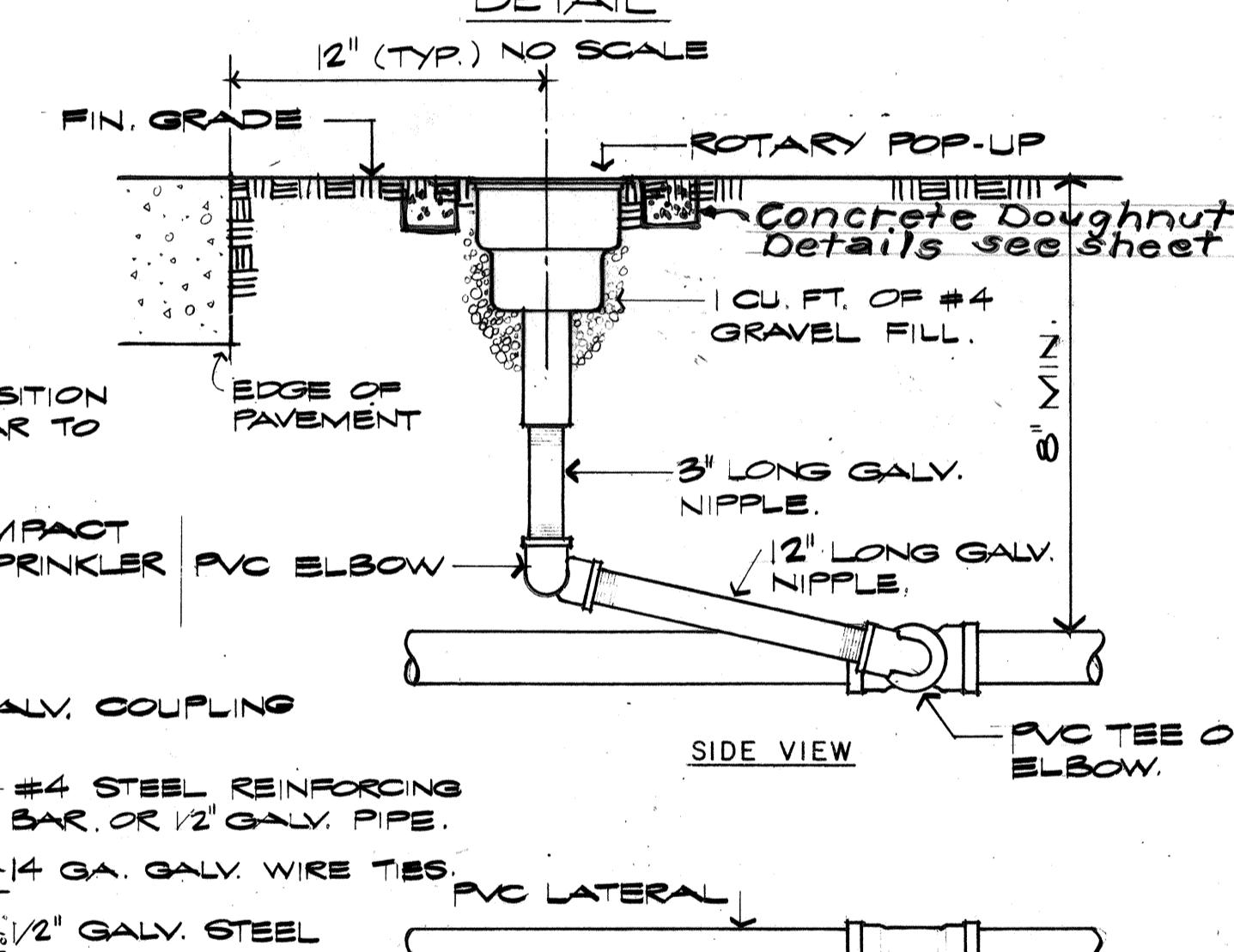
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(73)15	PT74	142	369



TYPICAL POP-UP HEAD

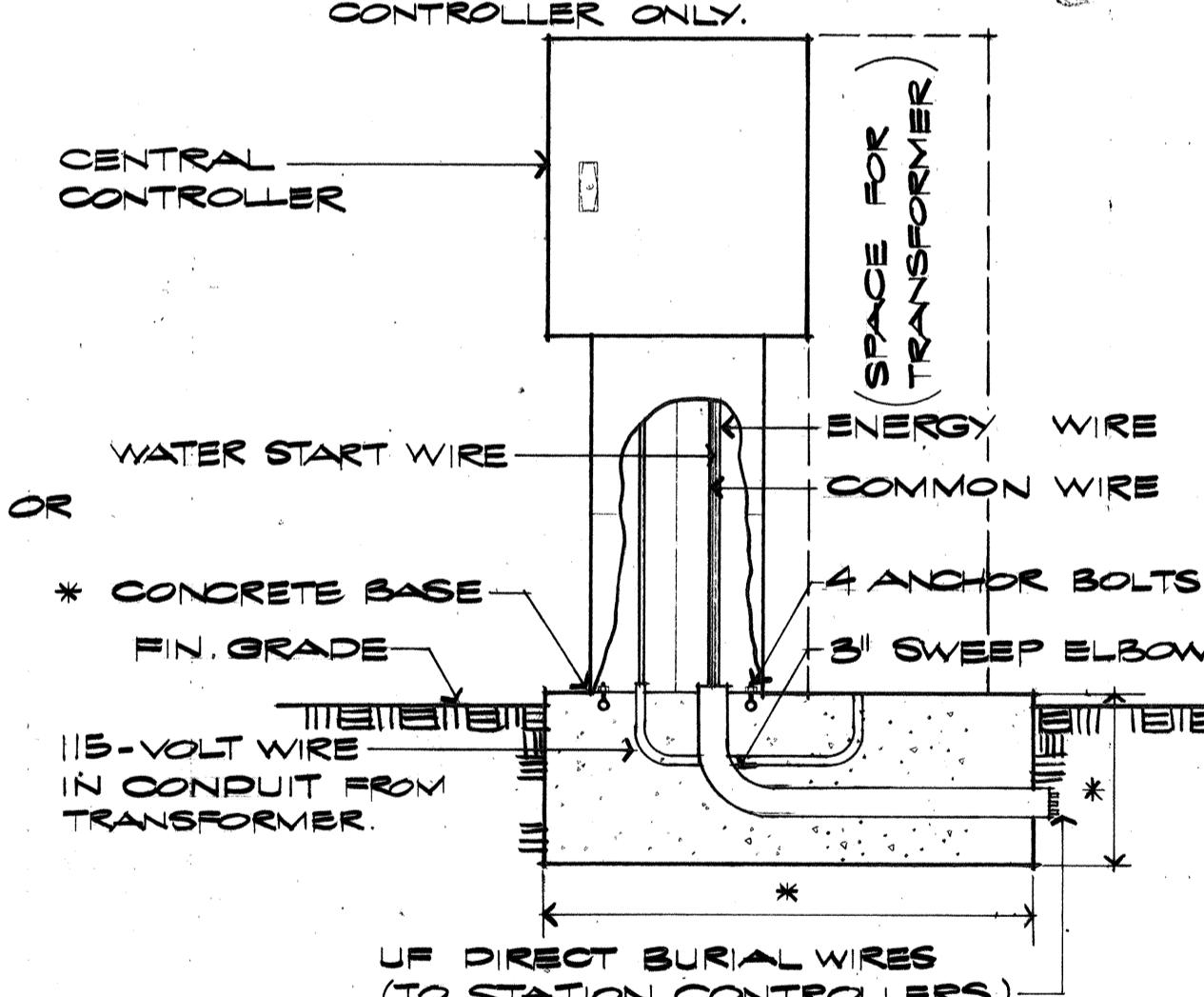
DETAIL  
NO SCALE

TYPICAL SHRUB HEAD

DETAIL  
NO SCALESOLENOID VALVE DETAIL  
NO SCALE

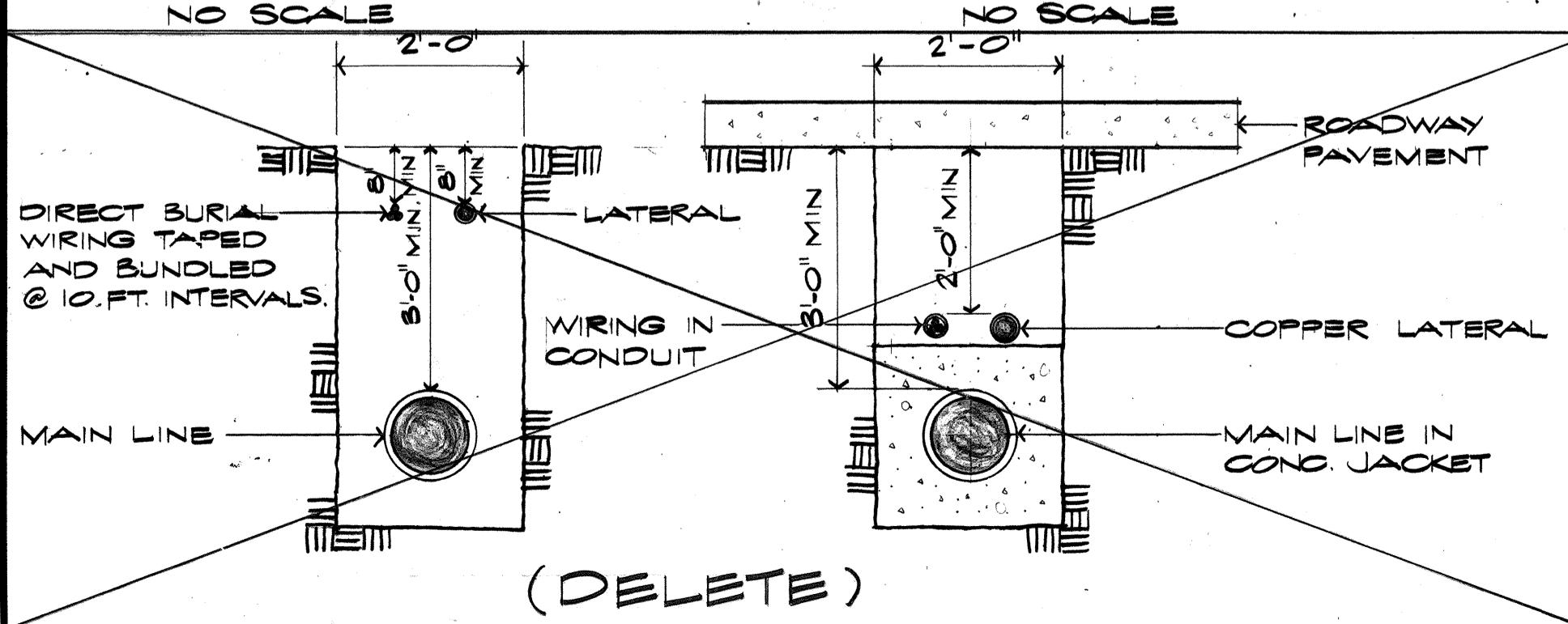
NOTE: SEE ELECTRICAL PLANS FOR ELECTRICAL TRANSFORMER DETAILS.

ADDITIONAL CONCRETE BASE REQUIRED FOR ELECTRICAL TRANSFORMER ON CENTRAL CONTROLLER ONLY.



IMPACT HEAD DETAIL

NO SCALE



ROTARY POP-UP DETAIL

NO SCALE

TYPICAL PIPE TRENCHING DETAIL  
NO SCALE  
(DELETE)

## SPRINKLER LEGEND

SPRINKLER	SYMBOL	DESCRIPTION	PRESSURE PSI.	COVERAGE FT.	FLOW GPM	NOZZLE INCHES	RISER INCHES	SPECIAL FEATURES
P-12	○	POP-UP LAWN - FULL	20	12 RAD.	3.2	1/2	1/2	2" POP-UP
P-12	△	POP-UP LAWN - HALF	20	12 RAD.	2.5	1/2	1/2	
P-12	▲	POP-UP LAWN - QUARTER	20	12 RAD.	1.2	1/2	1/2	
S-12	●	SHRUB SPRAY - FULL	20	10 RAD.	3.0	1/2	1/2	
S-12	▲	SHRUB SPRAY - HALF	20	10 RAD.	2.5	1/2	1/2	
S-12	▲	SHRUB SPRAY - QUARTER	20	10 RAD.	1.2	1/2	1/2	
I-35P	◎	IMPACT - FULL	30	31 RAD.	5.5	3/16	3/4	BRASS/BRONZE CONSTRUCTION W/ BRASS NOZZLE W/ BREAK-UP PIN.
I-35P	△	IMPACT - PART	30	36 RAD.	3.1	9/16	1/2	
R-40F	○	ROTARY POP-UP - FULL	45	46 RAD.	9.3	7/32	1	BRASS/BRONZE CONSTRUCTION, W/ BRASS NOZZLE, BRASS HOUSING.
R-40P	▲	ROTARY POP-UP - PART	40	40 RAD.	4.6	5/32	3/4	
	■	CENTRAL (MASTER) AUTOMATIC CONTROLLER - 6 STATION (MIN)						PEDESTAL MOUNTED
	▲	STATION (SATELLITE) AUTOMATIC CONTROLLER - 10 STATION (MIN)						PEDESTAL MOUNTED
	■	ELECTRIC REMOTE CONTROL VALVE						24V WATERPROOF SOLENOID, INSTALL IN VALVE BOX W/ COVER

## NOTES TO CONTRACTOR:

1- ALL WIRING UNDER ROADWAY TO BE INSTALLED IN CONDUITS.

2- PVC PIPE AND FITTINGS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

3- NO ROCKS OR SHARP OBJECTS ONE INCH OR LARGER SHALL BE USED IN THE BACKFILLING OF TRENCHES.

4- FINAL LOCATIONS OF CONTROL VALVES SHALL BE DETERMINED BY THE ENGINEER.

5- CONTRACTOR SHALL ADJUST ALL SPRINKLER HEADS FOR PROPER COVERAGE.

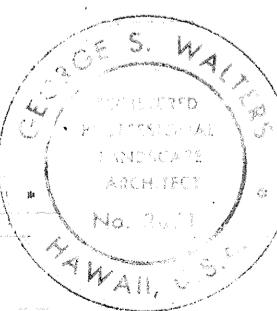
6- CONCRETE REACTION BLOCK SHALL BE CLASS B.

7- PROVIDE TWO 30' LONG HEAVY PLATED IRON KEY FOR CONTROL VALVE (INCIDENTAL TO VALVE COST).

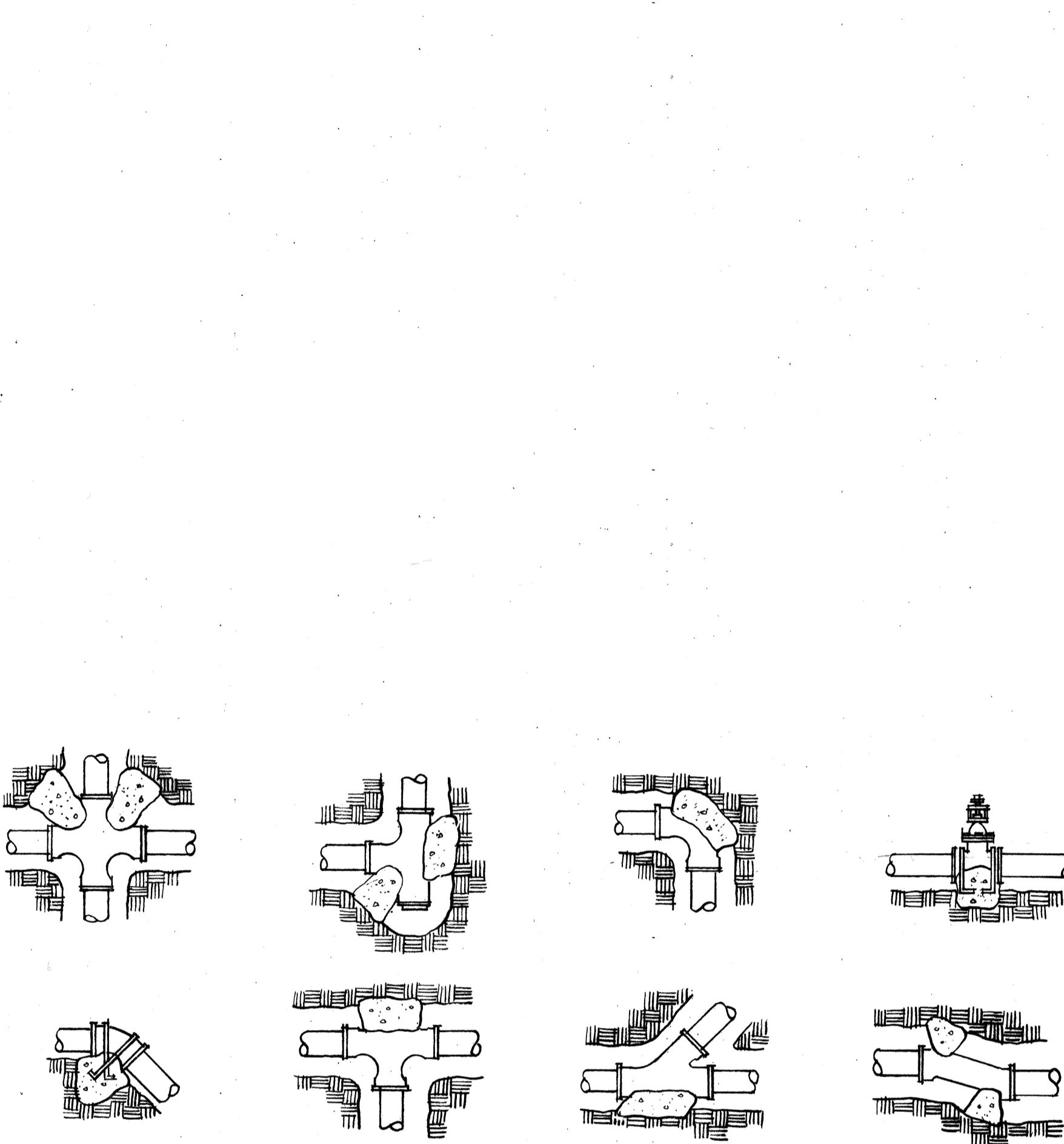
8- UNLESS OTHERWISE NOTED ON DRAWINGS THE STANDARD TRIANGULAR SPACING BETWEEN VARIOUS TYPES OF SPRINKLER HEADS ARE AS FOLLOWS:

POP-UP LAWN - 15' IMPACT - 40' 43'  
SHRUB SPRAY - 15' ROTARY POP-UP - 44' 47'9- TRENCH WIDTHS SHALL NOT BE LESS THAN 12".  
10- ALL SPRINKLER LATERTALS UNDER ROADWAY SHALL BE AT A DEPTH OF 2'-0".

11- ALL SPRINKLER SUPPLY LINES SHALL BE AT A DEPTH OF 3'-0".

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISIONSPRINKLER DETAILS  
PACKAGE NO. 3PEARL HARBOR INTERCHANGE  
F.A.I. PROJ. NO. I-HI-1(73)-15SCALE: NONE DATE: DEC. 7, 1973  
SHEET NO. 18 OF 18 SHEETSTHIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	HEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(73)15	1974	143	369



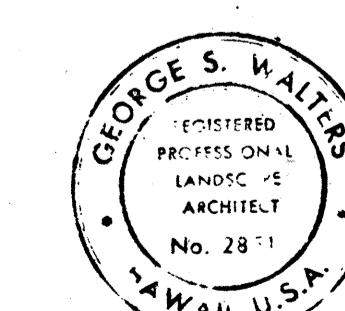
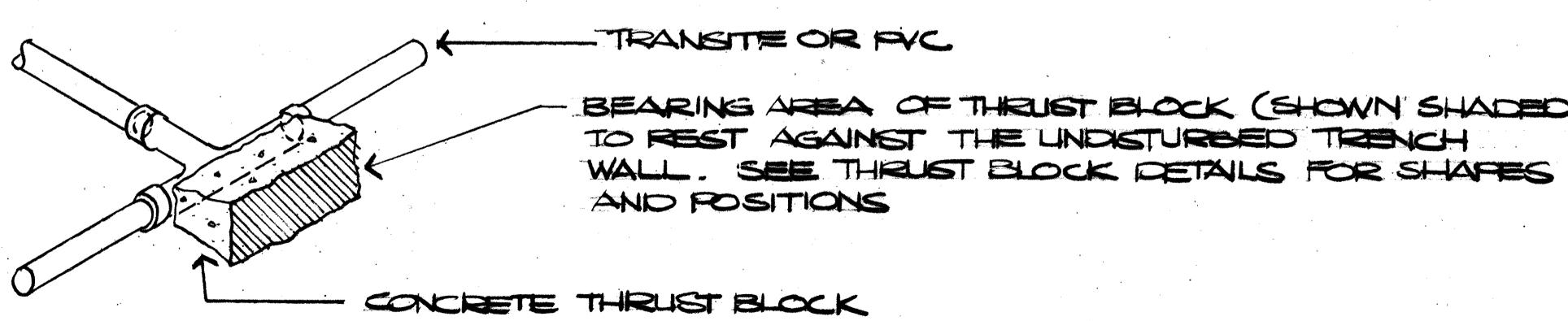
INSTALLATION NOTES

1. ALL MAIN LINE TO BE INSTALLED & TESTED ACCORDING TO MANUFACTURER'S INSTALLATION GUIDE. EACH SHALL BE A PART OF THE INSTALLATION SPECIFICATIONS.
2. ALL TRENCH DEPTH AND WIDTH SHALL BE AS SHOWN ON THE IRRIGATION PLANS.
3. THE CONTRACTOR SHALL ARRANGE FOR THE SERVICE OF THE MANUFACTURER'S QUALIFIED INSTRUCTOR.

TYPICAL THRUST BLOCK DETAILS FOR TRANSITE OR PVC PIPE

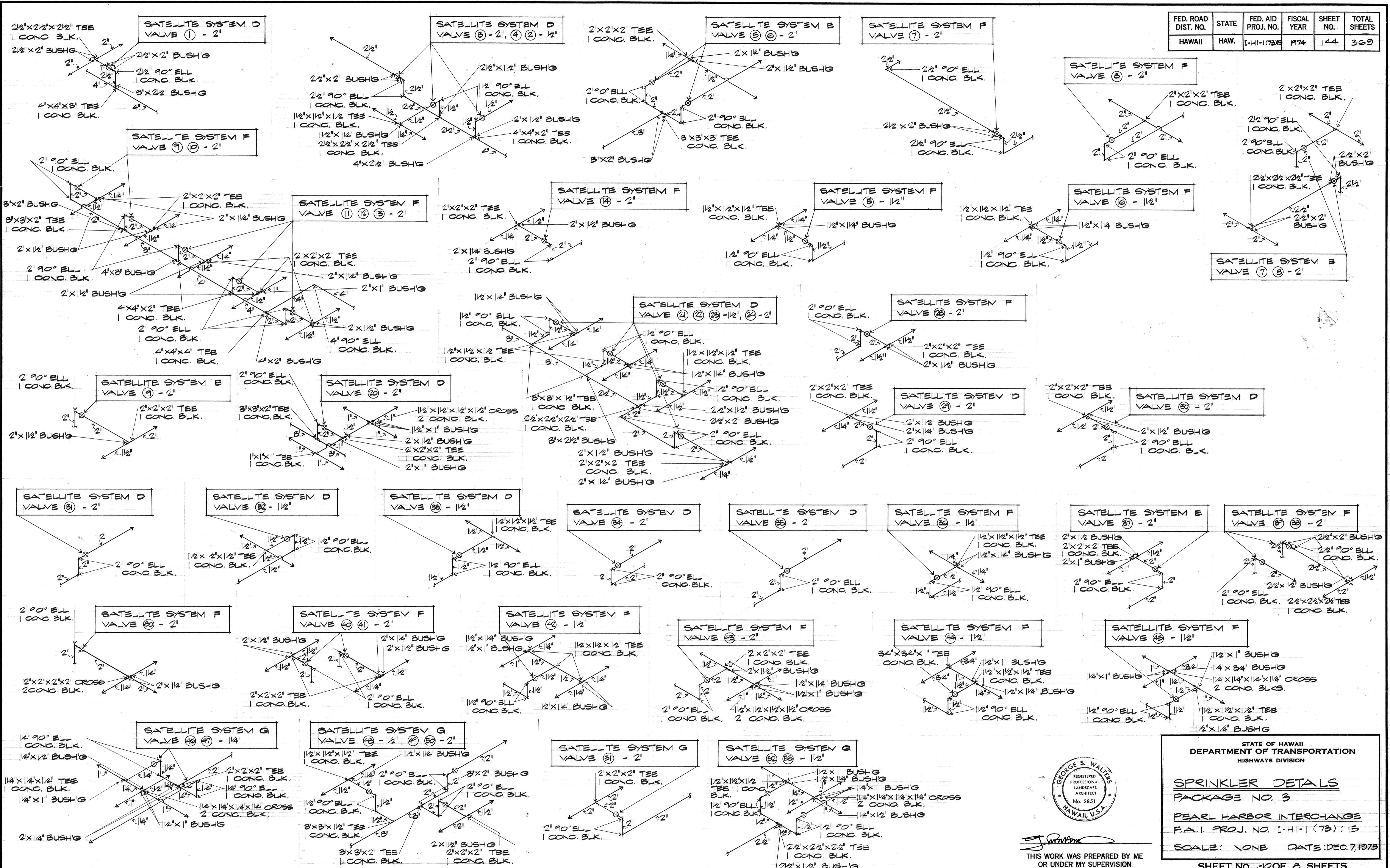
NO SCALE

BEARING AREA REQUIRED FOR THRUST BLOCKS (SQ.FT.)							
PIPE SIZE	3"	2 1/2"	2"	1 1/2"	1 1/4"	4"	6"
TEES & CROSSES	1.00	0.50	0.50	0.50	0.50	1.25	3.00
90° BEND	1.25	0.75	0.50	0.50	0.50	2.00	4.00
45° BEND	0.75	0.50	0.50	0.50	0.50	1.00	2.25



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OR UNDER MY SUPERVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>SPRINKLER DETAILS</u>	
PACKAGE NO.	
PEARL HARBOR INTERCHANGE F.A.I. PROJ. NO. I-HI-1(73)15	
SCALE : NONE DATE : DEC. 7, 1973	
SHEET NO. L-9 OF 18 SHEETS	



A circular stamp with a double-line border. The outer ring contains the name "GEORGE S. WALTERS" in capital letters. The inner circle contains the text "REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT" and "No. 2851". At the bottom, it says "HAWAII U.S.A.".

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**STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION**

# SPRINKLER DETAILS

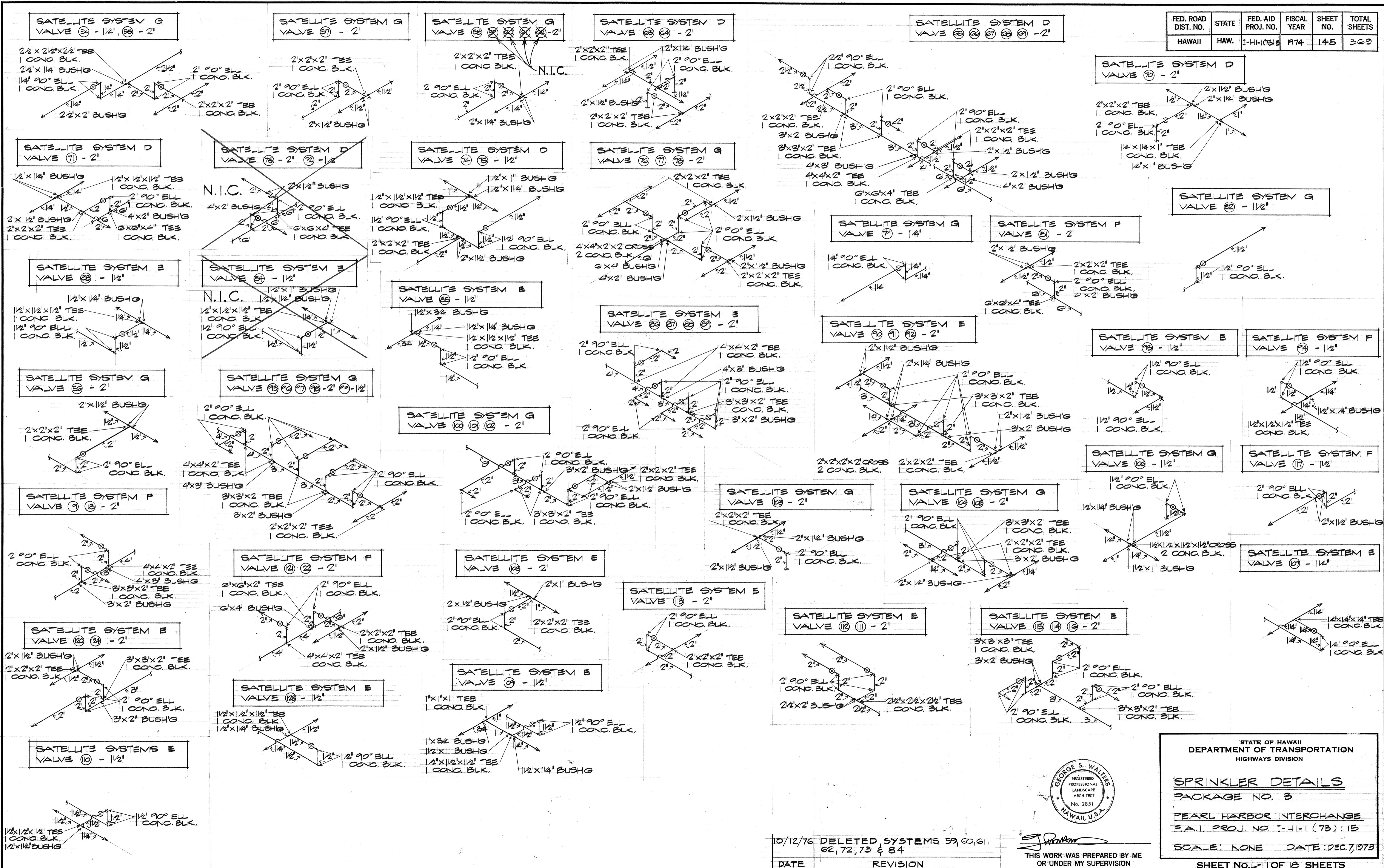
# PEARL HARBOR INTERCHANGE

F.A.I. PROJ. NO. I-HI-1 (73) : 15

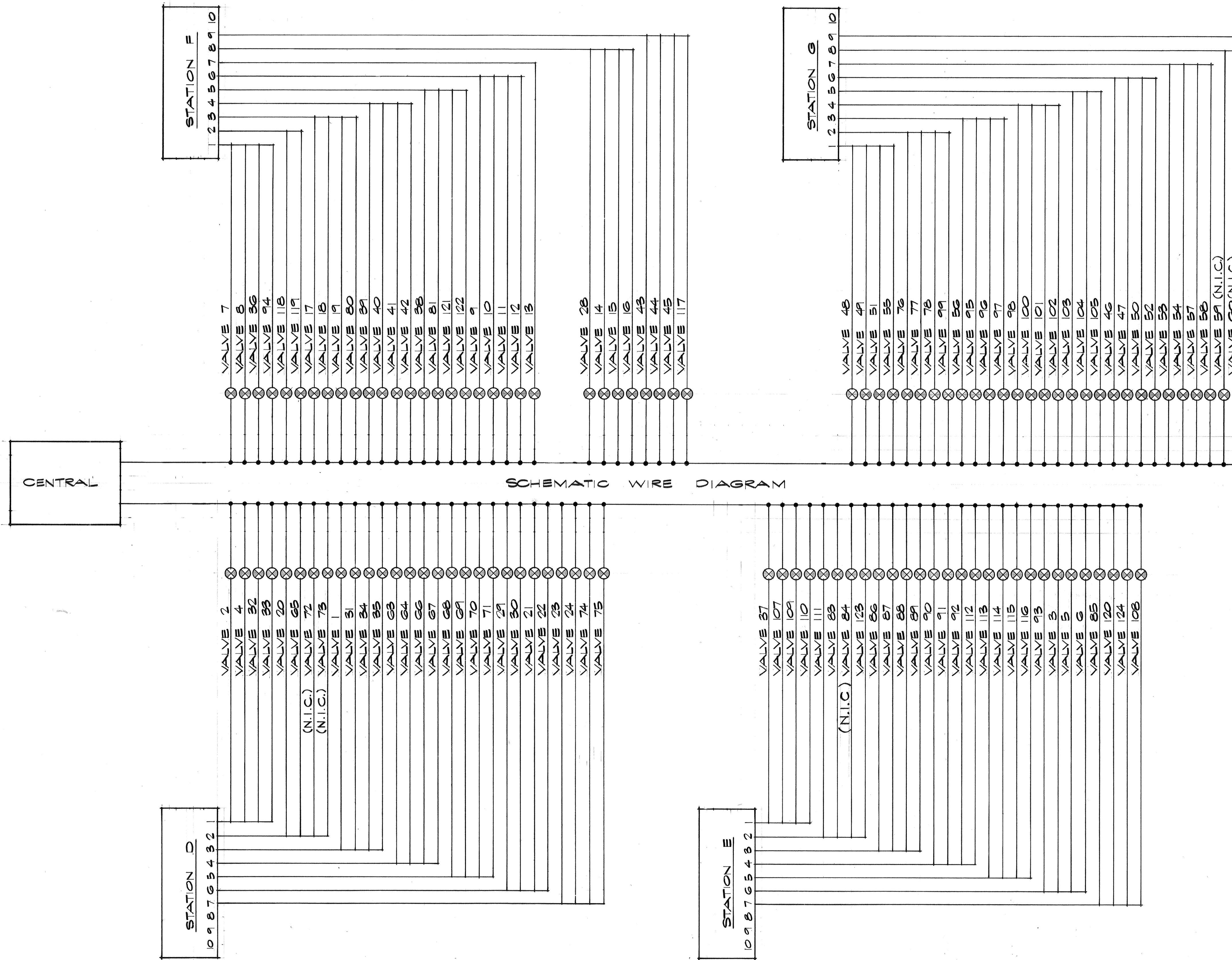
SCALE: NONE DATE: DEC. 7, 19

SHEET NO. 1-100F OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(73)E	1974	145	369



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(73)S	1974	146	369
DATE		REVISION			
10/12/76		DELETE SYSTEMS 59, 60, 61, 62, 72, 73 & 84			



NOTE:  
1 - ALL WIRES ARE NO. 14 WIRE.

FIELD DIRECTIVE FEB. 5, 1976

STATION NUMBER	OPERATING SCHEDULE			
	D	E	F	G
1	42 MIN.	42 MIN.	42 MIN.	42 MIN.
2	42	42	42	42
3	32	32	32	32
4	32	32	32	32
5	32	32	32	32
6	7	7	7	7
7	7	7	7	7
8			7	7
9			7	7
10				



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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

WIRING DIAGRAMS  
PACKAGE NO. 3

PEARL HARBOR INTERCHANGE  
F.A.I. PROJ. NO. I-HI-1 (73)S

SCALE: NONE DATE: DEC. 7, 1973

SHEET NO. L-12 OF 18 SHEETS

C.O. 146

# SPRINKLER SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(73)15	1974	147	369

# **ESTIMATED**

# QUANTITIES

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

DATE	REVISION
1/17/75	CHANGE IN DIRECT BURIAL CABLE LINEAL FOOTAGE



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OR UNDER MY SUPERVISION~~

**STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION**

# SPRINKLER SUMMARY

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## PACKAGE NO. 3

PEARL HARBOR INTERCHANGE  
A.I. PROJ. NO. I-HI-1 (73): 15

CALE : NONE DATE : DEC. 7, 1973

SHEET NO. 1-3 OF 8 SHEETS

# SPRINKLER SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(73)15	1974	148	369

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

DATE	REVISION
9/17/95	CHANGE IN DIRECT BURIAL CABLE LINEAL FOOTAGE



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**STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION**

## SPRINKLER SUMMARY

### PACKAGE NO. 3

PEARL HARBOR INTERCHANGE

SCALE: NONE DATE: DEC. 7, 1973

SHEET NO. L-14 OF 18 SHEETS

# SPRINKLER

# SUMMARY

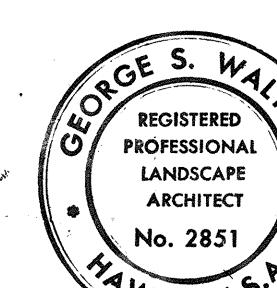
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	HEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(73)15	1974	149	369

## ESTIMATED QUANTITIES

SYSTEM NO.	ITEM NO.	ESTIMATED QUANTITIES																				REMARKS									
		503 003	503 201	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60										
VALVE LOCATION	CONCRETE FOR SPRINKLER SYSTEM	2 1/2 INCH ROAD STL PIPE, ACP OR PVC PIPE CONDUIT	1/2 INCH GALVANIZED STEEL PIPE OR POLYTHYLENE PIPE	1/2-INCH GALVANIZED STEEL PIPE	3/4-INCH GALVANIZED STEEL PIPE	1-INCH GALVANIZED STEEL PIPE	1 1/4-INCH COPPER PIPE	1 1/2-INCH COPPER PIPE	2-INCH COPPER PIPE	2 1/2-INCH COPPER PIPE	3-INCH COPPER PIPE	1/2-INCH GALVANIZED STEEL PIPE COPPER PIPE, OR PVC PIPE	3/4-INCH GALVANIZED STEEL PIPE COPPER PIPE, OR PVC PIPE	1-INCH GALVANIZED STEEL PIPE COPPER PIPE, OR PVC PIPE	2-INCH GALVANIZED STEEL PIPE COPPER PIPE, OR PVC PIPE	2 1/2-INCH GALVANIZED STEEL PIPE COPPER PIPE, OR PVC PIPE	3-INCH GALVANIZED STEEL PIPE COPPER PIPE, OR PVC PIPE	4-INCH GALVANIZED STEEL PIPE COPPER PIPE, OR PVC PIPE	5-INCH GALVANIZED STEEL PIPE COPPER PIPE, OR PVC PIPE	P-1/2 SPRINKLER HEAD	S-1/2 SPRINKLER HEAD	R-1/2 SPRINKLER HEAD	T-1/2 SPRINKLER HEAD	S-1/2 SPRINKLER HEAD	STATION AUTOMATIC CONTROLLER	1/2-INCH ELECTRIC CONTROL VALVE W/ TYPE A VALVE BOX	1/2-INCH ELECTRIC CONTROL VALVE W/ TYPE A VALVE BOX	1/2-INCH ELECTRIC CONTROL VALVE W/ TYPE A VALVE BOX	STRUCTURE EXCAVATED LATERAL	DIRECT BURIAL CABLES	PURSING AND INSTALLING 12-INCH CIP SLAB (CLASS 2)
49 # 0/S = 32'	RAMP MN STA. 9+16	.06			22.5							40	80	285	105	71	6			15							1 22 660				
50 # 0/S = 28'	RAMP MN STA. 9+24	.06		31.5								60	75	105	44	8	245		21							1 20 670					
51 # 0/S = 45'	RAMP EN STA. 21+10	.06			18	4.5						160	80	230	40	67		76		15						1 24 240 48					
52 # 0/S = 45'	RAMP EN STA. 23+02	.09		24								67	60	72	5	26	80		16							1 12 210					
53 # 0/S = 55'	RAMP EN STA. 23+02	.06		21								52	60	37	15	95	80		7	14						1 13 560					
54 # 0/S = 120'	H-1 STA. 104+58	.06		13.5								52	57	185					9							1 11 140					
55 # 0/S = 114'	H-1 STA. 104+62	.06			16.5	4.5						80	160	162	80	45	116		16		14					1 25 400					
56 # 0/S = 47'	RAMP EN STA. 12+32	.06		3		15						6	40	80	127	132	25		2	10						1 15 80					
57 # 0/S = 0'	H-1 STA. 101+77	.06		42								60	120	180	23	7	21		28							1 15 600					
58 # 0/S = 0'	H-1 STA. 103+58	.06		36								60	120	150	7	20			24							1 13 220					
59 # 0/S = 0'	H-1 STA. 105+30	.06		36								60	120	150	7	20		125	21							1 10 600 88					
60 # 0/S = 0'	H-1 STA. 101+18	.06		36								60	120	150	7	20			21							1 13 160					
61 # 0/S = 0'	H-1 STA. 108+17	.06		36								60	120	120	23	20			24							1 10 95					
62 # 0/S = 0'	H-1 STA. 110+76	.06		33								60	120	120	7	20			22							1 13 435					
63 # 0/S = 56'	MAKAI FR RD STA. 23+50	.04		3		10.5	3					57	45	85	93	97			2	9						1 14 240					
64 # 0/S = 62'	MAKAI FR RD STA. 23+68	.06		1.5		9						159	24	49					1	6						1 9 50					
65 # 0/S = 144'	MAKAI FR RD STA. 31+38	.04		3		24						40	120	80	240	120	43			2	10					1 24 150					
66 # 0/S = 115'	MAKAI FR RD STA. 31+42	.06				9						96	96	66		22			6							1 10 10					
67 # 0/S = 94'	MAKAI FR RD STA. 31+42	.04			7.5							96	96	22		42			5							1 10 1300					
68 # 0/S = 54'	MAKAI FR RD STA. 31+42	.06			9							96	144	31				10	6							1 11 30					
69 # 0/S = 18'	MAKAI FR RD STA. 31+47	.06			12	1.5						45	168	135	17			26	9							1 15 80					
70 # 0/S = 62'	MAKAI FR RD STA. 23+47	.04				7.5						144	20	22	16				5							1 8 90					
71 # 0/S = 103'	MAKAI FR RD STA. 23+45	.07				7.5						144	17	44			126	5							1 12 1860						
72 # 0/S = 25'	RAMP NS STA. 12+67	.04			6							82	108	95	23	54		7	10						1 14 30						
					N.I.C.																										

ORIGINAL SURVEY PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 PLAN DRAWN BY \_\_\_\_\_ TITLED \_\_\_\_\_  
 NOTE BOOK NUMBER \_\_\_\_\_ QUANTITIES BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

DATE 10/17/75 REVISION  
 10/12/76 CHANGE IN DIRECT BURIAL CABLE  
 LINEAL FOOTAGE.  
 DELETE SYSTEMS 59, 60, 61, 62,  
 AND 72



THIS WORK WAS PREPARED BY ME  
 OR UNDER MY SUPERVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>SPRINKLER SUMMARY</u>	
PACKAGE NO. 3	
PEARL HARBOR INTERCHANGE F.A.I. PROJ. NO. I-HI-1(73)-15	
SCALE: NONE DATE: DEC. 7, 1973	
SHEET NO. 15 OF 18 SHEETS	
C.O. 149R	

# SPRINKLER SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(73)15	1974	150	369

# ESTIMATED QUANTITIES

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

DATE	REVISION
10/17/75	CHANGE IN DIRECT BURIAL CABLE LINEAL FOOTAGE
10/12/76	DELETED SYSTEMS 73 & 84



S  
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OR UNDER MY SUPERVISION

**STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION**

SPRINKLER SUMMARY  
PACKAGE NO. 3

PEARL HARBOR INTERCHANGE  
S.A.I. PROJ. NO. I-HI-1 (73):15

SCALE : NONE DATE : DEC. 7, 1973

SHEET NO. - 6 OF 8 SHEETS

COLLEGE

C.O. 150R

# SPRINKLER SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(73)15	1974	151	369

**ESTIMATED**

## **QUANTITIES**

	SURVEY PLOTTED BY	DATE
ORIGINAL PLAN	DRAWN BY	"
	TRACED BY	"
NOTE BOOK	DESIGNED BY	"
	QUANTITIES BY	"
NO.	CHECKED BY	"

DATE	REVISION
10/17/75	CHANGE IN DIRECT BURIAL CABLE LINEAL FOOTAGE



**THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION**

**STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION**

**SPRINKLER SUMMARY**  
**PACKAGE NO. 3**

PEARL HARBOR INTERCHANGE  
F.A.I. PROJ. NO. I-HI-1 (73): 15

SCALE : NONE DATE : DEC. 7, 1973

SHEET NO. 17 OF 18 SHEETS

15|R

## SPRINKLER

## SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(73)15	1974	152	369

SYSTEM NO.	ITEM NO.	ESTIMATED QUANTITIES												REMARKS																					
		503 003	503 201	60 065	60 070	60 100	60 101	60 02	60 113	60 114	60 115	60 116	60 117	60 120	60 131	60 132	60 133	60 134	60 135	60 136	60 137	60 138	60 139	60 210	60 222	60 255	60 258	60 265	60 280	60 282	60 284	60 285	60 286	60 032	60 289
	VALVE LOCATION	CONCRETE FOR SPRINKLER SYSTEM	CONCRETE OTHER THAN BRIDGES (CLASS B)	2 1/2-INCH ROAD STL. PIPE CONDUIT	1/2-INCH GALVANIZED STEEL PIPE OR POLYETHYLENE PIPE	1/2-INCH GALVANIZED STEEL PIPE	1/2-INCH COPPER PIPE	1/2-INCH COPPER PIPE	2-INCH COPPER PIPE	2 1/2-INCH COPPER PIPE	3-INCH COPPER PIPE	1/4-INCH COPPER PIPE	1/2-INCH GALVANIZED STEEL PIPE, COPPER PIPE, OR PVC PIPE	R-1/2 SPRINKLER HEAD	S-1/2 SPRINKLER HEAD	R-1/2 SPRINKLER HEAD	B-1/2 SPRINKLER HEAD	ST-1/2 SPRINKLER HEAD	STATION AUTOMATIC CONTROLLER, 1-STATION MINIMUM	1/4-INCH ELECTRIC CONTROL VALVE W/ TYPE A VALVE BOX	1/2-INCH ELECTRIC CONTROL VALVE W/ TYPE A VALVE BOX	STRUCTURE EXCAVA- TION FOR SPRINKLER LATERAL	FURNISHING AND INSTALLING 12-INCH C/SLEEVES												
	UNIT USED	CU.YD.	CU.YD.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.					
121 @ OS = 26	RAMP NE STA. 7+00	.04																																	
122 @ OS = 58	RAMP NE STA. 7+75	.06																																	
123 @ OS = 16'	RAMP NS STA. 6+81	.06			24																														
124 @ OS = 48'	RAMP NS STA. 5+22	.04		34.5																															
STATION D @ OS = 28'	MAKAI FR. RD. STA. 22+25	1.8		180																															
STATION E @ OS = 50	RAMP WN STA. 31+90	1.8		470																															
STATION F @ OS = 28'	MAKAI FR. RD. STA. 22+43	1.8		335																															
STATION G @ OS = 20	RAMP NE STA. 11+05	1.8		355																															
CENTRAL @ OS = 30	MAKAI FR. RD. STA. 29+95	1.8																																	
TOTALS		9	6.89	1340	807.5	465	311	264		80	155	30	30	2054	6257	7362	10,963	6936	5267	1231	1293	998	86	349	422	321	354	4	1	0	29	70	1651	99880	915

DATE: 10/17/75 REVISION: CHANGE IN DIRECT BURIAL CABLE LINEAL FOOTAGE  
10/12/76 REVISED TOTALS



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OR UNDER MY SUPERVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

SPRINKLER SUMMARY  
PACKAGE NO. 3

PEARL HARBOR INTERCHANGE  
F.A.I. PROJ. NO. I-HI-1(73)-15

SCALE: NONE DATE: DEC. 7, 1973

SHEET NO. L-18 OF 18 SHEETS

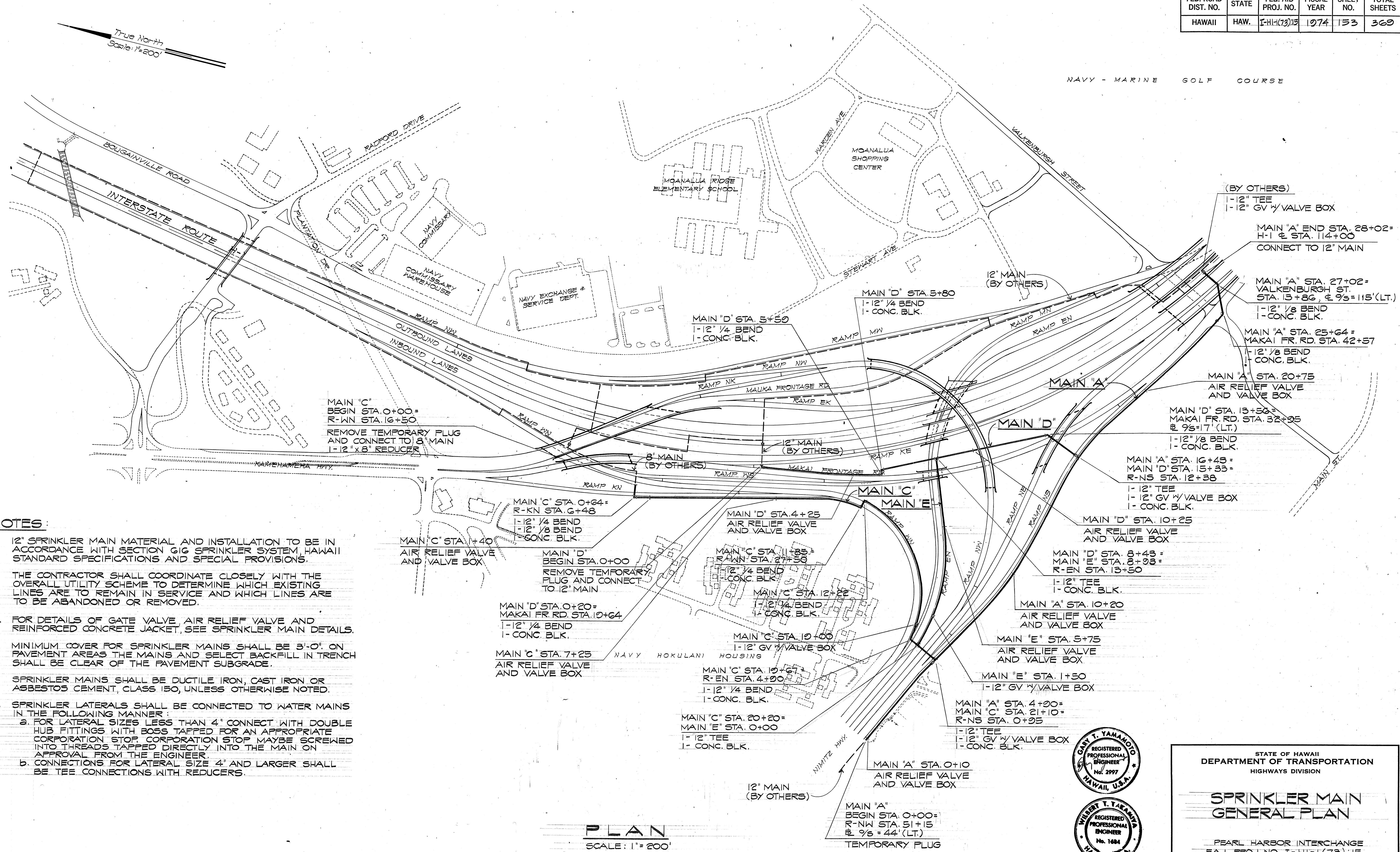
C0. 152R

ORIGINAL SURVEY PLOTTED BY \_\_\_\_\_ DATE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_ " \_\_\_\_\_  
TRACED BY: \_\_\_\_\_ " \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ " \_\_\_\_\_  
QUANTITIES BY: \_\_\_\_\_ " \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_ " \_\_\_\_\_  
No. \_\_\_\_\_

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(73)15	1974	153	369

True North  
Scale: 1/200'

NAVY - MARINE GOLF COURSE



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

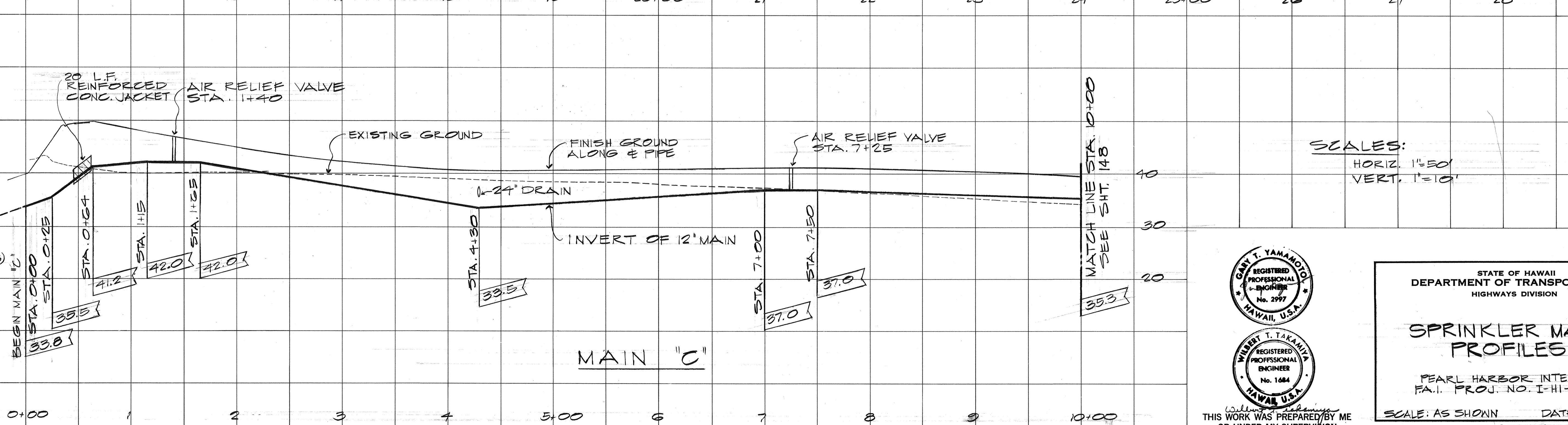
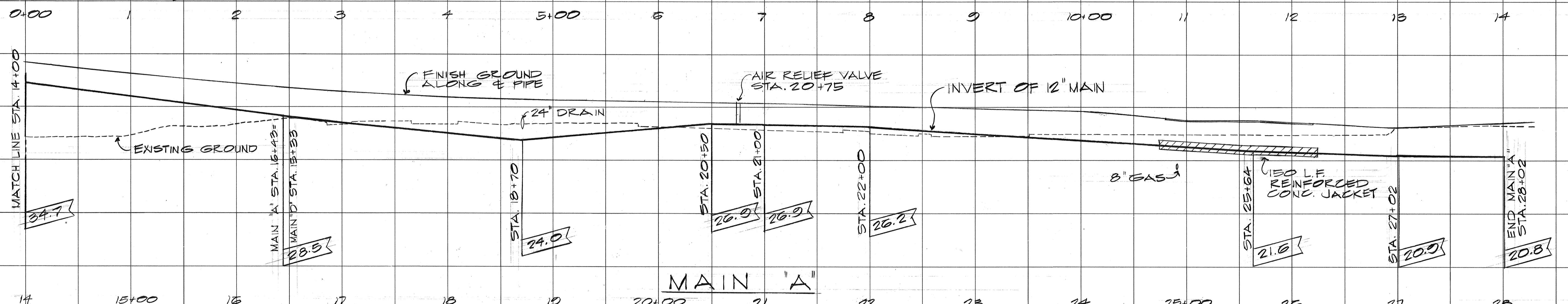
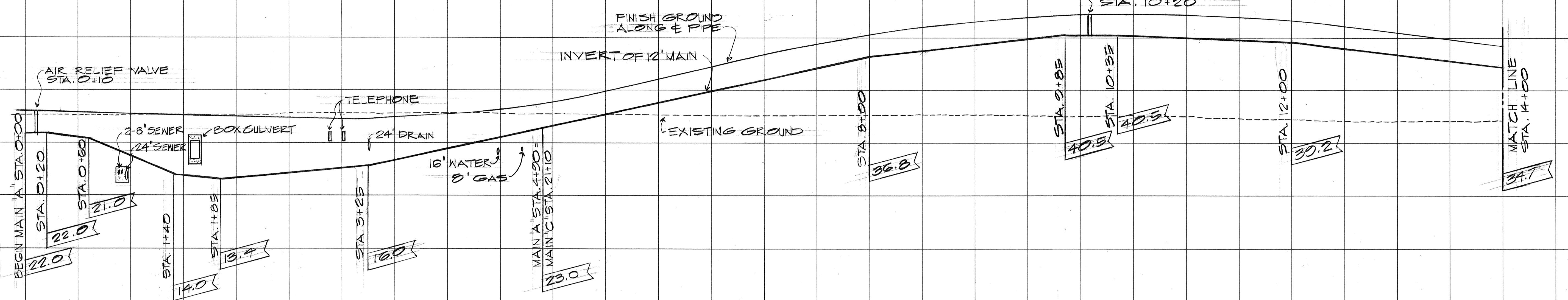
SPRINKLER MAIN  
GENERAL PLAN

PEARL HARBOR INTERCHANGE  
F.A.I. PROJ. NO. I-HI-I(73)15

Loisette G. Taniguchi  
THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION

SCALE AS SHOWN DATE: DEC. 7, 1973  
SHEET NO. 1 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(73):15	1974	154	369



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

**STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION**

## SPRINKLER MAIN

~~PRODENES~~

# PROFILES

## PEARL HARBOR INTERCHANGE

F.A.I. PROJ. NO. I-HI-1(73) : 15

ANSWERED BY: DATE: 05/07/08

DATE: DEC. 1, 19

SHEET NO. 2 OF 4 SHEETS

54

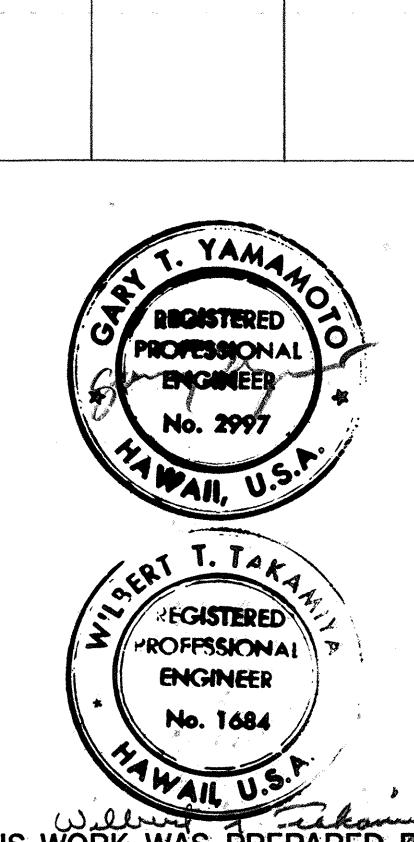
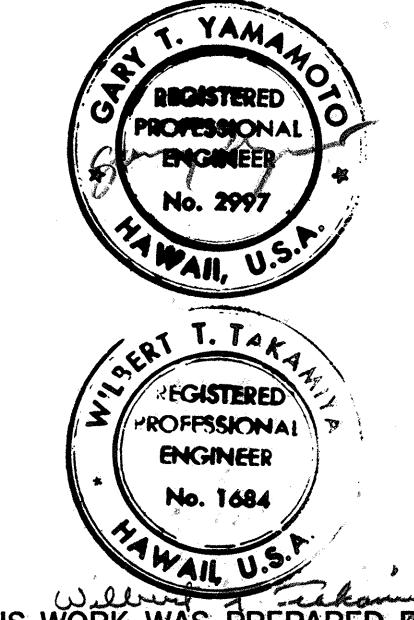
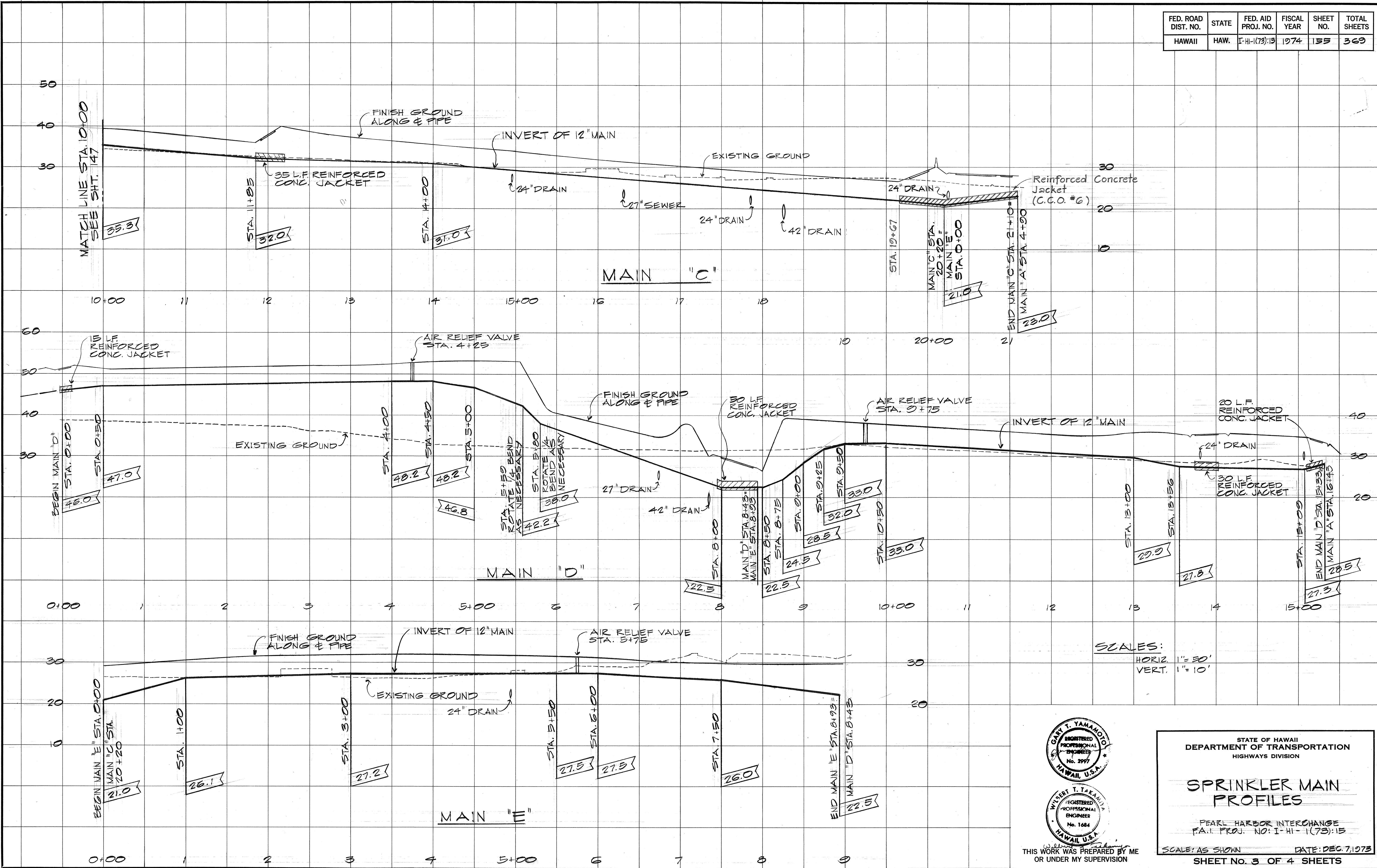
Digitized by srujanika@gmail.com

*Walter J. Sakamyo*  
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OR UNDER MY SUPERVISION

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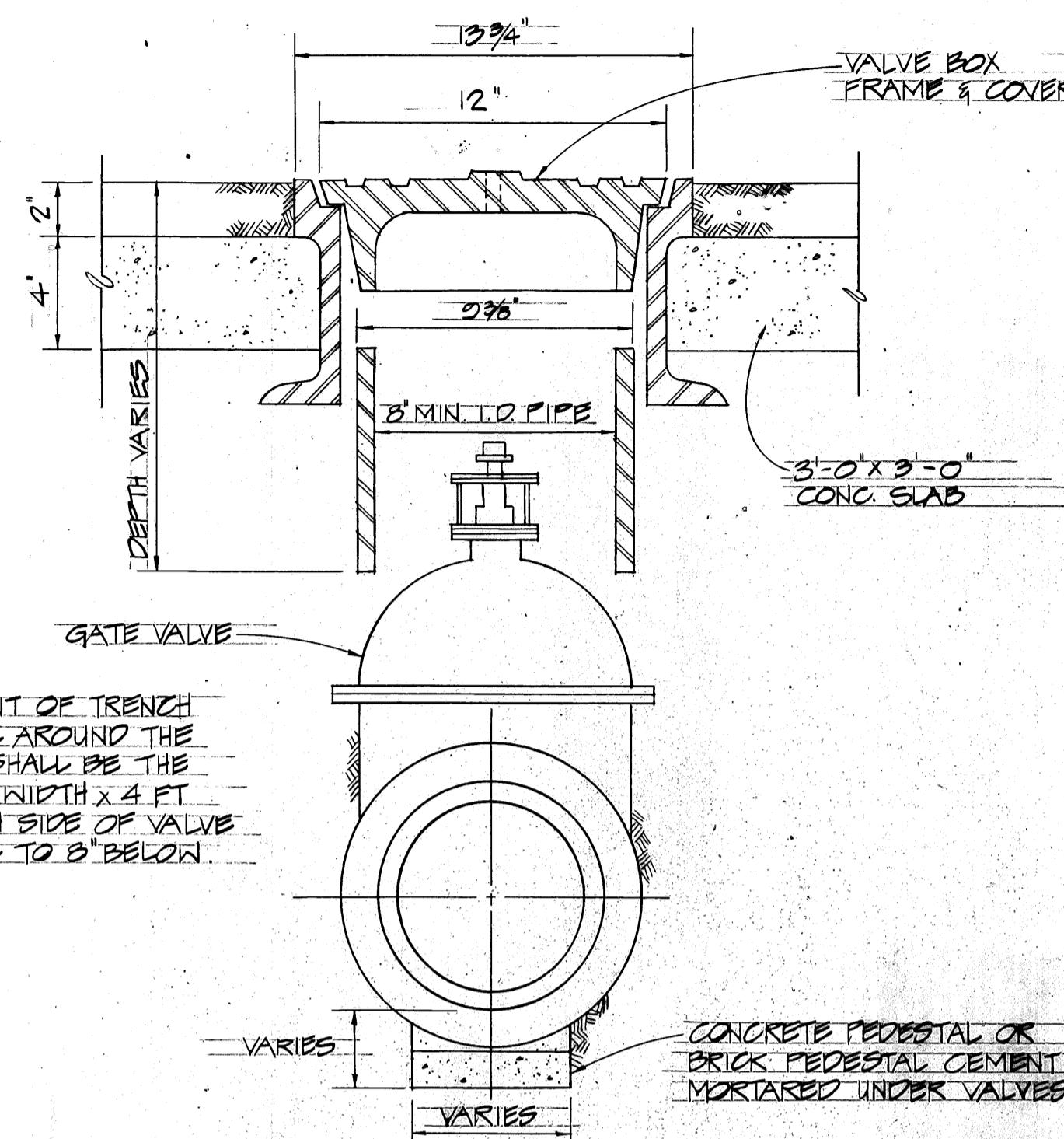
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(73):15	1974	155	369



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(73)15	1974	156	369

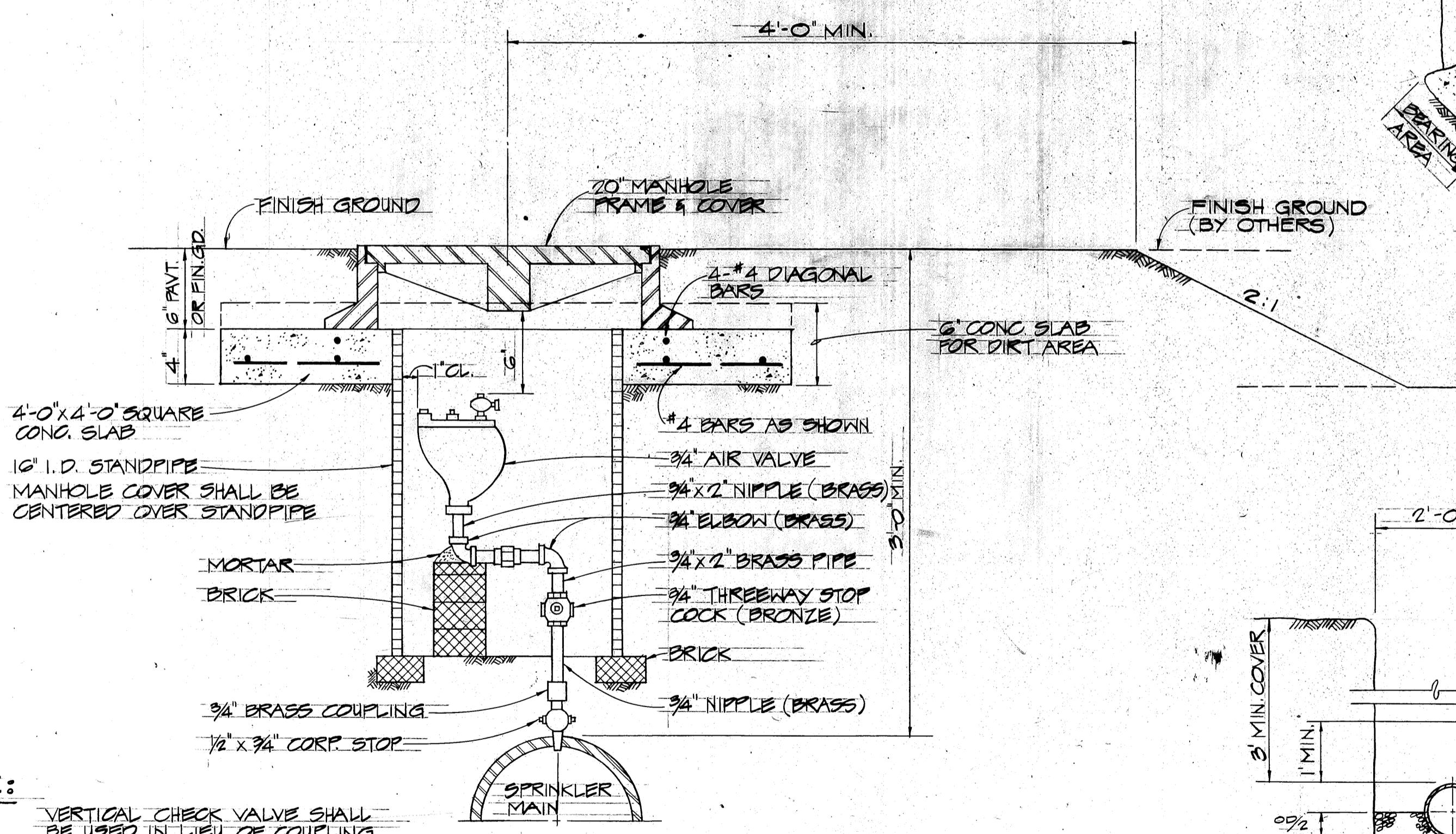
NOTE:

ALL CASTINGS SHALL BE MADE ACCURATELY TO THE DIMENSIONS SHOWN. SEAT AND COVER SHALL BE MACHINED, NOT GROUND, TO SECURE PLAT AND TRUE SURFACES. THE COVER SHALL NOT RATTLE IN ANY POSITION.



GATE VALVE  
AND VALVE BOX

NOT TO SCALE



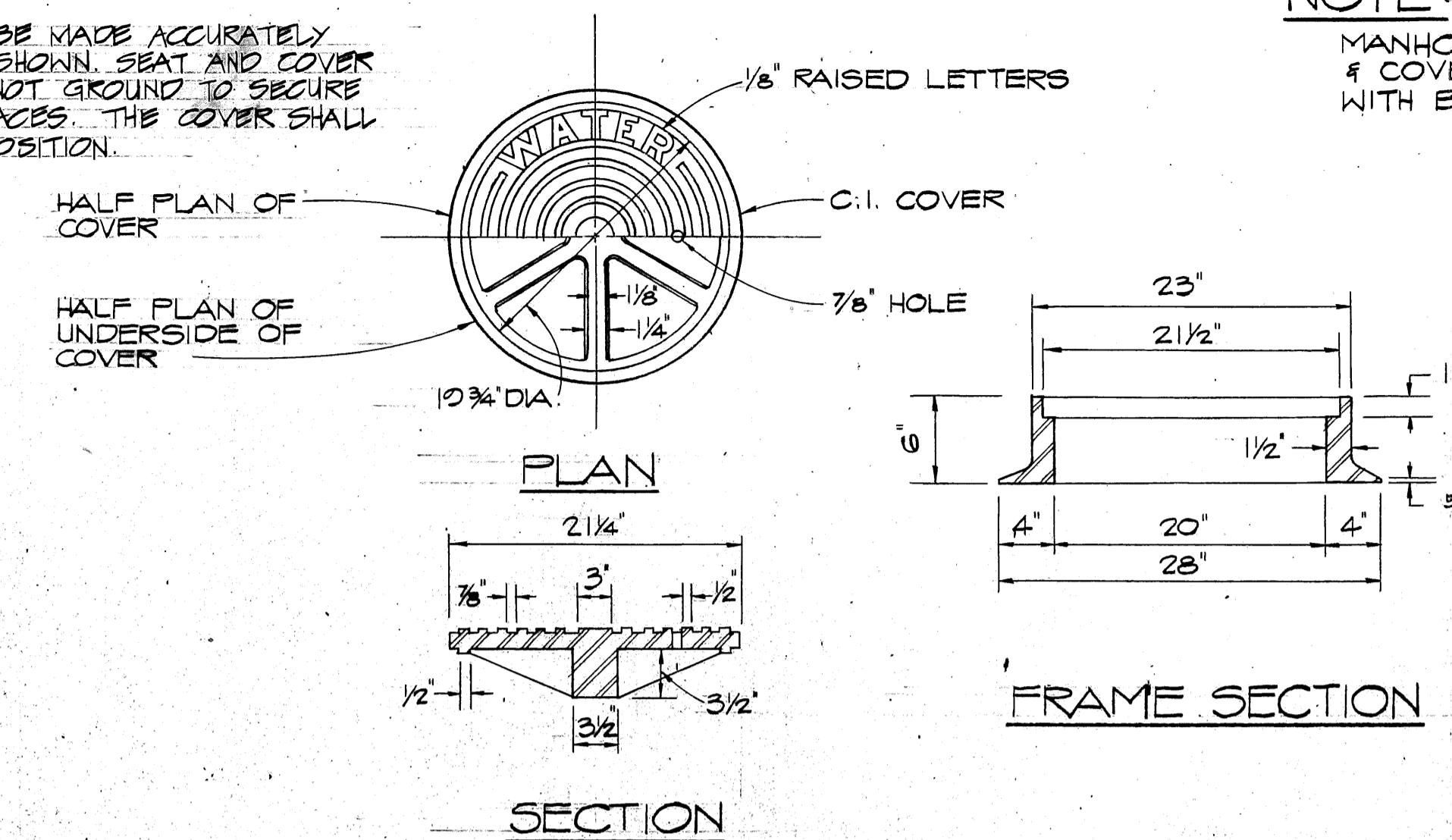
NOTE:

VERTICAL CHECK VALVE SHALL BE USED IN LIEU OF COUPLING WHEN THREEWAY STOP COCK IS IMMersed IN WATER.

AIR RELIEF VALVE  
AND VALVE BOX

NOT TO SCALE

NOTE:  
MANHOLE AND VALVE BOX FRAME & COVER TO BE IN ACCORDANCE WITH BOARD OF WATER SUPPLY STANDARDS.

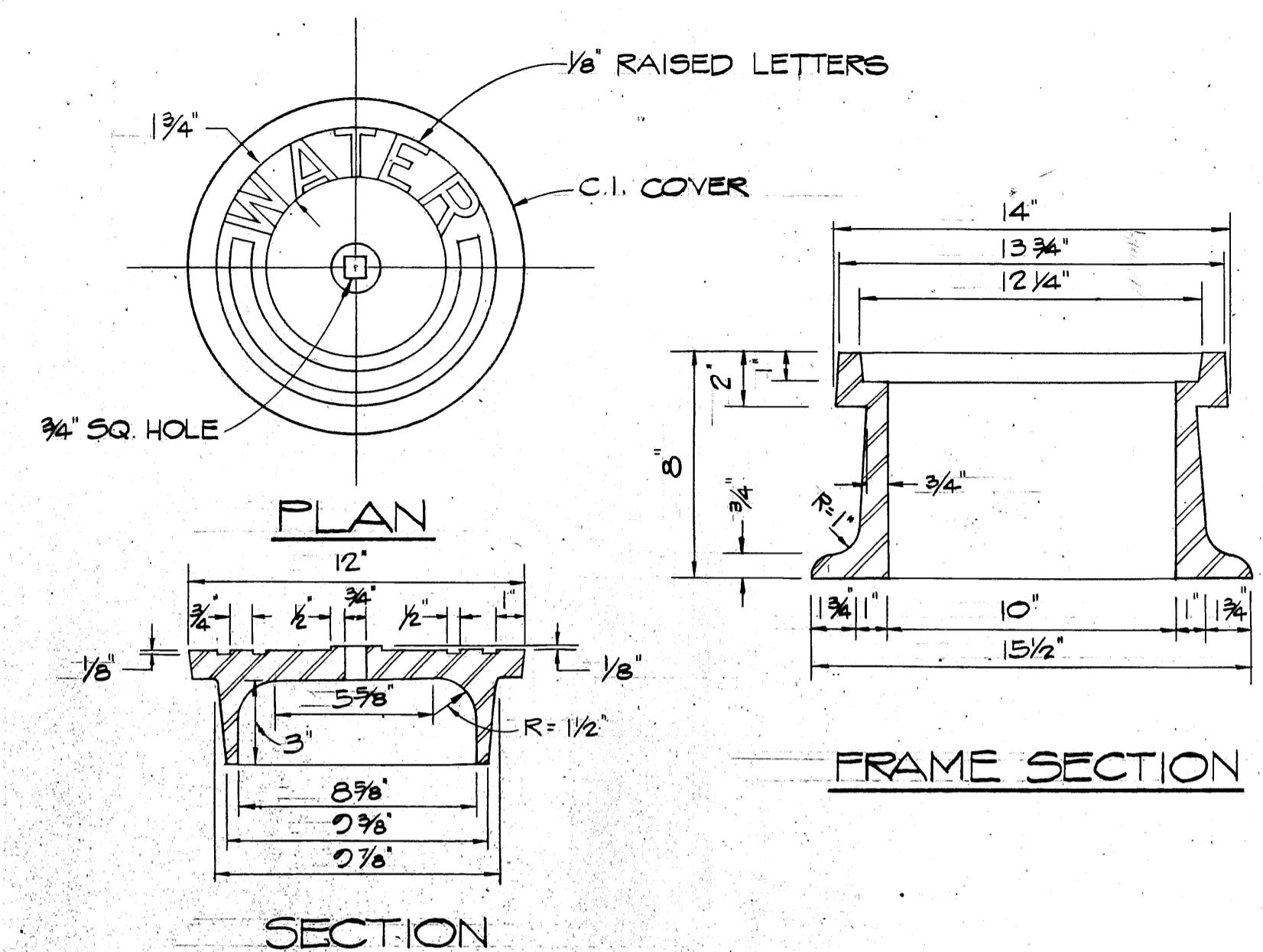


TYPICAL MANHOLE FRAME & COVER

NOT TO SCALE

NOTE:

MANHOLE AND VALVE BOX FRAME & COVER TO BE IN ACCORDANCE WITH BOARD OF WATER SUPPLY STANDARDS.

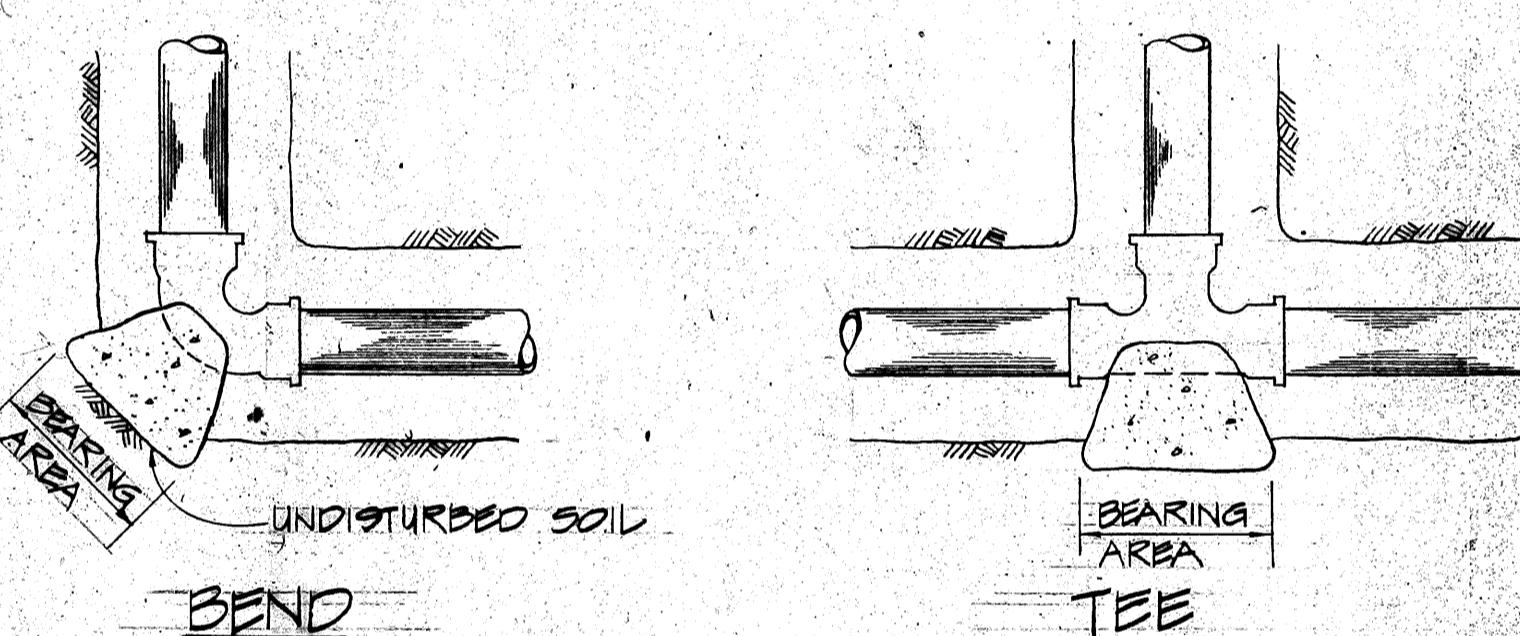


TYPICAL VALVE BOX FRAME & COVER

NOT TO SCALE

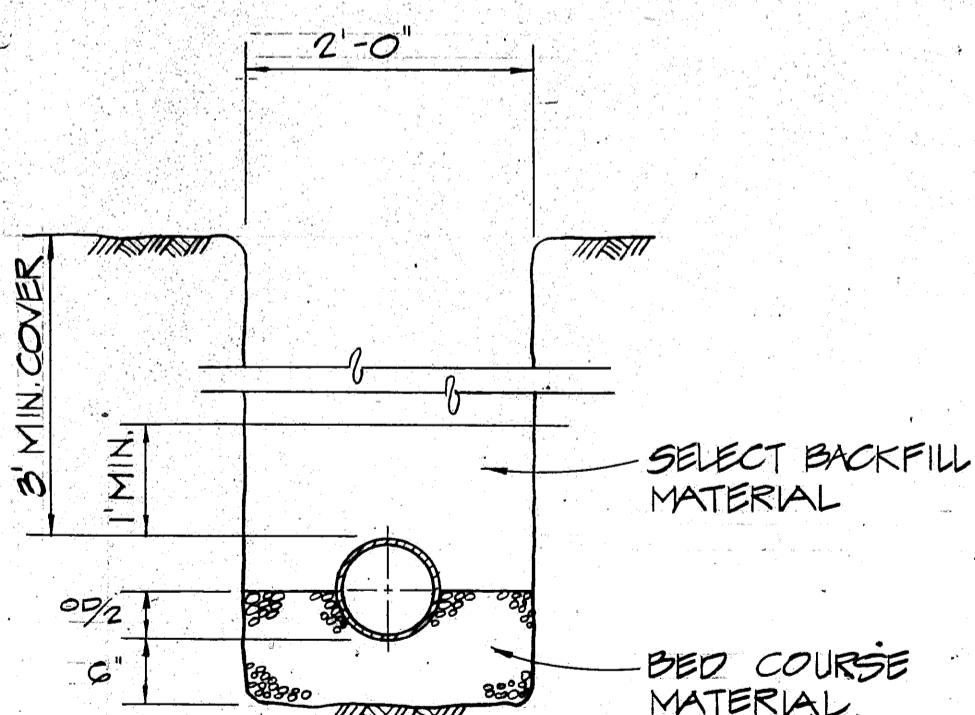
NOTE:

BEARING AREA  
4 SQ. PT. MINIMUM



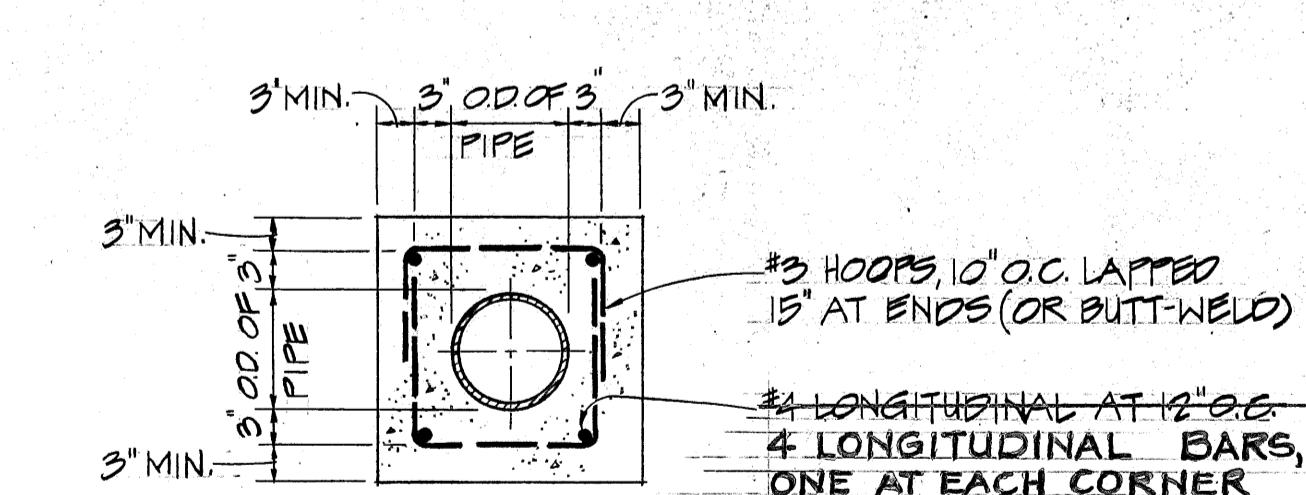
CONCRETE BLOCK DETAILS

(FOR HORIZONTAL BENDS)  
NOT TO SCALE

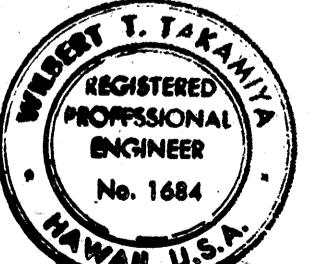


TRENCH DETAIL

NOT TO SCALE



FIELD DIRECTIVE  
JAN. 15, 1975



REINFORCED CONCRETE JACKET

NOT TO SCALE

Walter S. Ichimura  
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OR UNDER MY SUPERVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

SPRINKLER MAIN  
DETAILS

PEARL HARBOR INTERCHANGE  
P.A.I. Proj. No: I-HI-(73)15

Scale: As Shown  
Date: DEC. 7, 1973  
SHEET NO. 4 OF 4 SHEETS