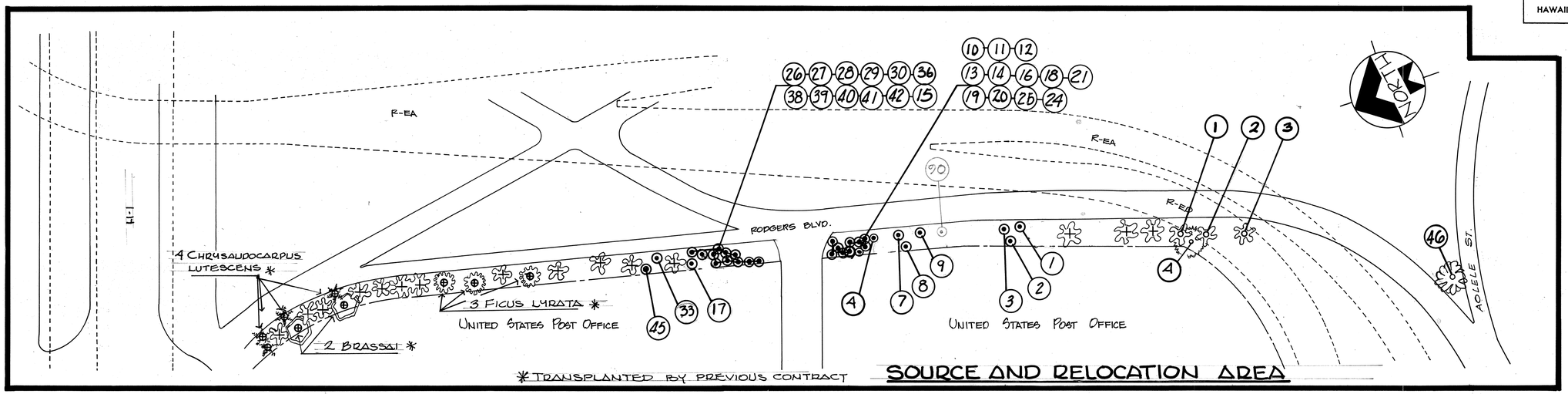
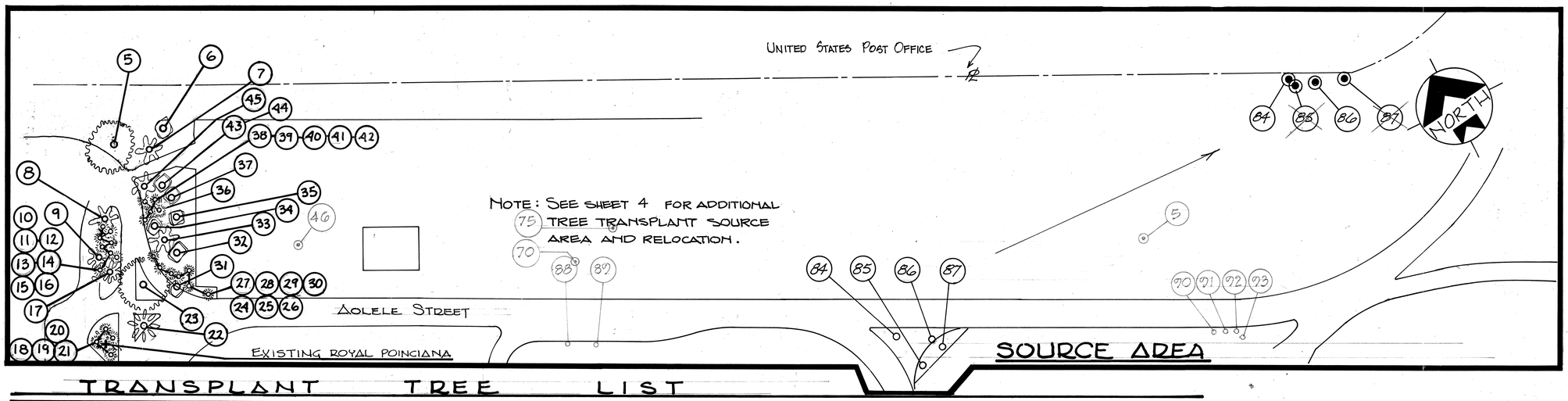
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(122)	1977	80	181



SOURCE AND RELOCATION AREA



SOURCE AREA

Note:
1. Trees to be relocated within Airport Terminal Area as directed by the Engineer.

TRANSPLANT TREE LIST

TREE NO.	BOTANIC NAME	COMMON NAME	SIZE	NEW LOCATION
1	COCOS NUCIFERA	COCONUT PALM	25'	EAST OF POST OFF.
2	" "	" "	35'	" " " "
3	" "	" "	25'	" " " "
4	SPATHODEA CAMPAN'A.	AFRICAN TULIPTREE	25'	Aolele St. & S'ly 57' ± 29' Rt.
5	FICUS RETUSA	BANYON	15'	SEE NOTE 1
6	PANDANUS ODORATIS'S.	SCREW PINE "HALA"	20'	SEE SHEET 82
7	COCOS NUCIFERA	COCONUT PALM	40'	E. OF P.O.
8	" "	" "	40'	" "
9	" "	" "	50'	" "
10	CYCAS CIRCINALIS	SAGO PALM	6'	" "
11	" "	" "	6'	" "
12	" "	" "	6'	" "
13	" "	" "	6'	" "
14	" "	" "	6'	" "
15	" "	" "	6'	" "
16	" "	" "	6'	" "
17	COCOS NUCIFERA	COCONUT PALM	30'	" "
18	CYCAS CIRCINALIS	SAGO PALM	6'	" "
19	" "	" "	6'	" "
20	" "	" "	6'	" "
21	" "	" "	6'	" "
22	ROYSTONEA REGIA	ROYAL PALM	30'	SEE NOTE 1
23	SAMANEA SAMAN	MONKEYPOD TREE	25'	" "
24	CYCAS CIRCINALIS	SAGO PALM	6'	E. OF P.O.

TREE NO.	BOTANIC NAME	COMMON NAME	SIZE	NEW LOCATION
25	CYCAS CIRCINALIS	SAGO PALM	6'	E. OF P.O.
26	" "	" "	6'	" "
27	" "	" "	6'	" "
28	" "	" "	6'	" "
29	" "	" "	6'	" "
30	" "	" "	6'	" "
31	PANDANUS ODORATIS'S.	SCREW PINE "HALA"	20'	SEE SHEET 82
32	" "	" "	20'	" "
33	COCOS NUCIFERA	COCONUT PALM	40'	E. OF P.O.
34	PANDANUS ODORATIS'S.	SCREW PINE "HALA"	20'	SEE SHEET 82
35	" "	" "	20'	" "
36	CYCAS CIRCINALIS	SAGO PALM	6'	E. OF P.O.
37	PANDANUS ODORATIS'S.	SCREW PINE "HALA"	20'	SEE SHEET 82
38	CYCAS CIRCINALIS	SAGO PALM	6'	E. OF P.O.
39	" "	" "	6'	" "
40	" "	" "	6'	" "
41	" "	" "	6'	" "
42	" "	" "	6'	" "
43	PANDANUS ODORATIS	SCREW PINE "HALA"	20'	SEE SHEET 82
44	" "	" "	20'	" "
45	COCOS NUCIFERA	COCONUT PALM	40'	E. OF P.O.
46	FICUS RETUSA	BANYON	30'	SEE NOTE 1
84, 85, 86, 87	PANDANUS ODORATISSIMUS	HALA	25'	POST OFFICE FR.
88, 89	SPATHODEA CAMPAN'A	AFRICAN TULIP TREE	25'	SEE NOTE 1
90	SPATHODEA CAMPAN'A	AFRICAN TULIP TREE	25'	E. OF P.O.

LEGEND

- ✚ EXISTING TREE TO REMAIN
- ○ EXISTING TREE TO TRANSPLANT
- ◉ TRANSPLANTED TREE LOCATION
- (5) TREE TRANSPLANT NUMBER
- • NEW TREE LOCATION

ROGER L. BRICK JR. REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT No. 3478 HAWAII

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

NO.	DATE	REVISION
2	7-12-78	Relocate Trees 84, 85, 86 & 87 (88, 89)
1	11-1-77	Revised Note under "New Location" for Screw Pine "Hala"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRANSPLANT SOURCE & RELOCATION — RODGER'S BLVD.

AIRPORT INTERCHANGE
F.A.I. PROJ. I-HI-1(122) 16

SCALE: 1"=50' DATE: 2-1-77

SHEET No. 1 OF 16 SHEETS

CO 80

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(122)	1977	81	181

ADELE STREET EXTENSION

741 S.Y. JASMINUM OFFICINALE @ 2' O.C.

UNITED STATES POST OFFICE

126 BOUGAINVILLEA CRIMSON LAKE @ 5' O.C.

AIRPORT BOUNDARY LINE

LIGHT STANDARD

SIGN STANDARD

75

℄

R-WD

PROJECT LIMITS LINE

TYPICAL MOUND
START AT 66+80 ±
END AT 74+30
RAMP-WD STATION
SEE DETAIL BELOW

3955 S.F. LIPPIA CANESCENS

14
~~17~~ COCOS NUCIFERA

320 S.Y. NEPHTHYTIS AFZELII

10'

2520 S.F.
~~280~~ S.Y. HONAN GRASS

1152
~~1184~~ S.F.
HONAN GRASS

45 S.Y. ALAMANDA C. HENDERSONII @ 2' O.C.

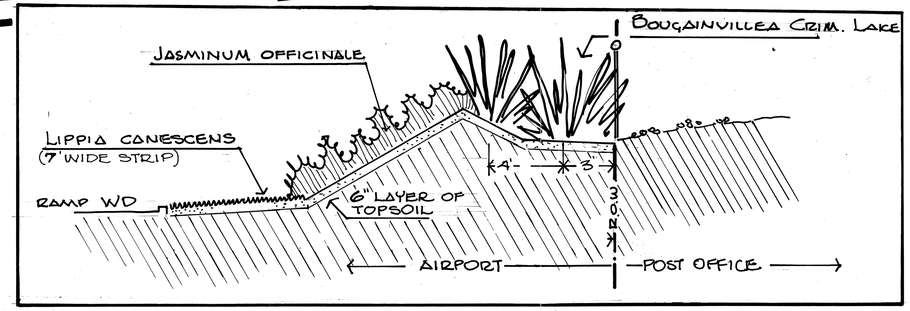
55 S.Y. TECOMARIA CAPENSIS @ 2' O.C.

EXISTING ROYAL POINCIANA

EXISTING CURB

NOTE: SEE SHEET 4 FOR ADDITIONAL PLANTING THIS AREA.

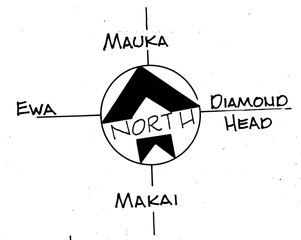
HONOLULU INTERNATIONAL AIRPORT PARKING



TYPICAL MOUND SECTION WITH PLANTING

NO SCALE

SEE SHEETS 3 & 4 FOR LANDSCAPING MOUNDING DETAILS



NO.	DATE	REVISION
2	4-28-78	DELETED HONAN GRASS & 2 ROYAL POINCIANA FROM TRAFFIC ISLANDS
1	10-5-77	REPLACED TIFWAY BERMUDA GRASS WITH HONAN GRASS. REVISED QUANTITIES OF HONAN GRASS & NEPHTHYTIS

ROGER L. BUCK JR.
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
No. 3476
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLANTING PLAN

AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(122)16

SCALE: 1"=20' DATE: 2-1-77

SHEET No. 2 OF 16 SHEETS

CO 81

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(122)	1977	82	181

15 · COCOS NUCIFERA

UNITED STATES POST OFFICE

MOUND — SEE TYPICAL SECTION SHEET NO. 2

122 · BOUGAINVILLEA S. CRIMSON LAKE @ 5' O.C.

6 31 32 34 35 37 43 44

AIRPORT BOUNDARY

JOIN SU. #2

SIGN STANDARD

LIGHT STANDARD

R-ED

END LIPPIA @ 38+92 RAMP "ED" STATION

CONTRACT LIMITS LINE

1432 S.Y. · JASMINUM OFFICINALE

3444 S.F. LIPPIA CANESCENS

R-WD

430 S.Y. NEPHTHYTIS AFZELII 12" O.C.

AOLELE STREET

2 - RELOCATED HALA BY OTHERS

RAMP R-EA

RAMP R-WA

RAMP R-WA

MAUKA

EWA

DIAMOND HEAD

NORTH

MAKAI

HONOLULU INTERNATIONAL AIRPORT PARKING

NO.	DATE	REVISION
1	11-1-77	Deleted 15 Brassai Actinophylla and replaced with transplanted Screw Pine "Hala"

ROGER L. BUCK, JR. REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT No. 3476 HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLANTING PLAN

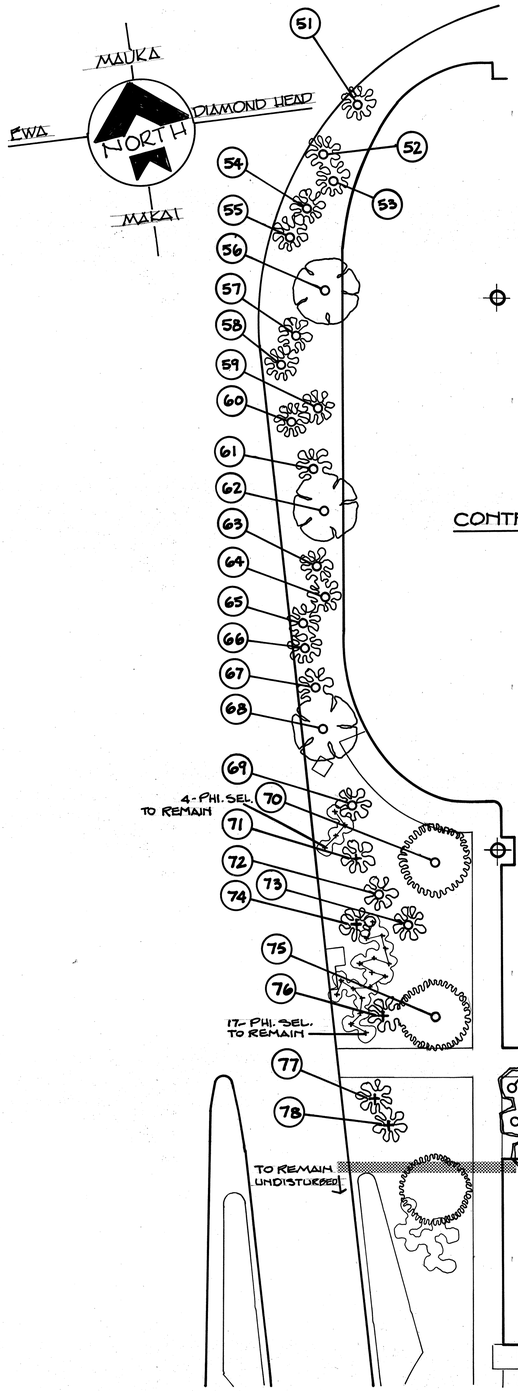
AIRPORT INTERCHANGE
F.A.I. PROJ. I-HI-1(122) 16

SCALE : 1"=20' DATE : 2-1-77

SHEET No. 3 OF 16 SHEETS

CO 82

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-I(122)16	1977	83	181



SOURCE AREA

TRANSPLANT REPLACEMENT AND NEW PLANTING AREA

TRANSPLANT TREE LIST

TREE NO.	BOTANIC NAME	COMMON NAME	SIZE	NEW LOCATION
51	COCOS NUCIFERA	COCONUT PALM	30'	NEW ISLAND
52	" "	" "	30'	" "
53	" "	" "	30'	" "
54	" "	" "	30'	" "
55	" "	" "	30'	" "
56	DELONIX REGIA	POINCIANA	15'	" "
57	COCOS NUCIFERA	COCONUT PALM	30'	" "
58	" "	" "	30'	" "
59	" "	" "	25'	" "
60	" "	" "	30'	" "
61	" "	" "	60'	" "
62	DELONIX REGIA	POINCIANA	15'	" "
63	COCOS NUCIFERA	COCONUT PALM	30'	" "
64	" "	" "	30'	" "
65	" "	" "	30'	" "
66	" "	" "	30'	" "
67	" "	" "	50'	" "
68	DELONIX REGIA	POINCIANA	15'	" "
69	COCOS NUCIFERA	COCONUT PALM	25'	" "
70	SAMANEA SAMAN	MONKEYPOD	25'	~~SEE NOTE~~ W. of Lei Stand
71	COCOS NUCIFERA	COCONUT PALM	25'	REMAINS IN PLACE
72	~~" "~~	~~" "~~	~~30'~~	~~NEW ISLAND~~
73	" "	" "	30'	NEW ISLAND
74	" "	" "	30'	REMAINS IN PLACE
75	SAMANEA SAMAN	MONKEYPOD	25'	~~SEE NOTE~~ W. of Lei Stand
76	COCOS NUCIFERA	COCONUT PALM	30'	REMAINS IN PLACE
77	" "	" "	25'	" " "
78	" "	" "	25'	" " "
79	BRASSAIA ACTINOPHYLLA	OCTOPUS TREE	10'	NEW ISLAND
80	" "	" "	10'	" "
81	" "	" "	10	" "
82	" "	" "	10'	" "
83	" "	" "	10'	" "

NOTE:
TREE TO BE RELOCATED WITHIN AIRPORT TERMINAL AREA AS DIRECTED BY THE ENGINEER.

ROGER L. BUCK, JR. REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT No. 3476 HAWAII, U.S.A.

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NO.	DATE	REVISIONS
1	10/25/77	REVISED PLANTING @ ENTRANCE TO PARKING AREA.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLANTING PLAN

AIRPORT INTERCHANGE
F.A.I. PROJ. I-HI-1(122) 16

SCALE: 1"=20' DATE: FEB. 1, 1977

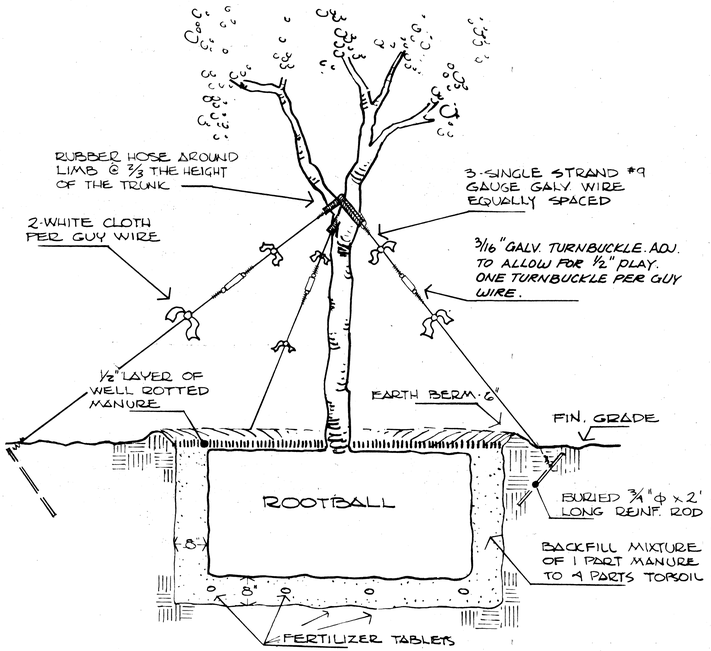
SHEET No. 4 OF 16 SHEETS

C083

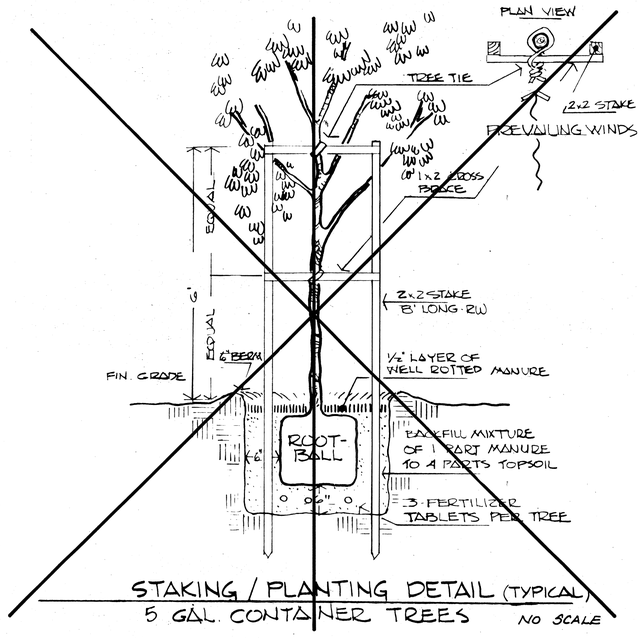
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(122)16	1977	84	181

PLANT MATERIAL LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	QUAN.	ROOT PREP.	SIZE	REMARKS
	TREES					
	~~A. BRASSAI ACTINOPHYLLA~~	~~OCTOPUS TREE~~	~~15~~	~~15 GAL.~~	~~8' HT. 3' SPD. 2½" CAL~~	
	B. DELONIX REGIA	ROYAL POINCIANA	2	25 GAL.	10' HT 4' SPD. 3" CAL.	
	C. PLUMARIA MIX	PLUMARIA	3	15 GAL.	8' HT 3' SPD. 2½" CAL	MATCH EXISTING 3
	PALMS					
	D. COCOS NUCIFERA	COCONUT	32	B & B	20' HEIGHT	
	SHRUBS					
	E. BOUGAINVILLEA S. CRIMSON LAKE	CRIMSON LAKE BOUGAINVILLEA	248 ~~238~~	5 GAL.	3' HT. 2 SPD.	CRIMSON RED FLOWER
	F. PHILODENDRON SELLOUM	SELF HEADING PHILODENDRON	49	5 GAL.	3' HT 3' SPD.	
	GROUNDCOVERS					
	G. ALAMANDA C. HENDERSONII	YELLOW ALAMANDA	128 S.Y.	1 GAL.	12" HT.	2' O.C. 2.25 PLANTS/S.Y.
	H. JASMINUM OFFICINALE	STAR JASMINE	2173 S.Y.	1 GAL.	12" HT.	2' O.C. 2.25 PLANTS/S.Y.
	I. LIPPIA CANESCENS	LIPPIA	6607 S.F.	STOLONS	HYDROMULCH	
	J. TECOMARIA CAPENSIS	CAPE HONEYSUCKLE	244 S.Y.	1 GAL.	12" HT.	2' O.C. 2.25 PLANTS/S.Y.
	K. EREMIOCHLOA OPHIUROIDES	HONAN GRASS	3672 ~~5364 S.F.~~	STOLONS	HYDROMULCHED	
	L. POLYPODIUM PHYMATODES	LAVA'A FERN	243 S.Y.	1 QT.	12" HT. CLUMPING	18" O.C. 4 PLANTS/S.Y.
	M. NEPHTHYTIS AFZELII	NEPHTHYTIS	750 S.Y.	STOLONS	12" RUNNERS	12" O.C. 9 PLANTS/S.Y.



STAKING / PLANTING DETAIL (TYPICAL)
15 & 25 GAL. CONTAINER TREES — NO SCALE



STAKING / PLANTING DETAIL (TYPICAL)
5 GAL. CONTAINER TREES — NO SCALE

KEY TO TREE CONDITION

- \+ EXISTING TREE TO REMAIN
- ○ EXISTING TREE TO TRANSPLANT
- ⊙ TREE TRANSPLANT LOCATION
- ⑤ TREE TRANSPLANT NUMBER
- • PROPOSED NEW TREE

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

No.	DATE	REVISION
1	10-25-77	REVISED POLYPODIUM PHYMATODES QUANTITY DELETED BRASSAI ACTINOPHYLLA REPLACED "TIFWAY" GRASS WITH "HONAN" GRASS. REVISED QUANTITIES OF HONAN & NEPHTHYTIS

ROGER L. BUCK JR. REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT No. 3476 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPE DETAILS

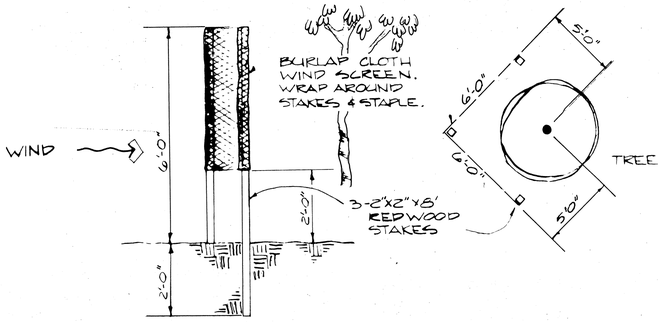
AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(122)16

SCALE: AS NOTED DATE: 2-1-77

SHEET No. 5 OF 16 SHEETS

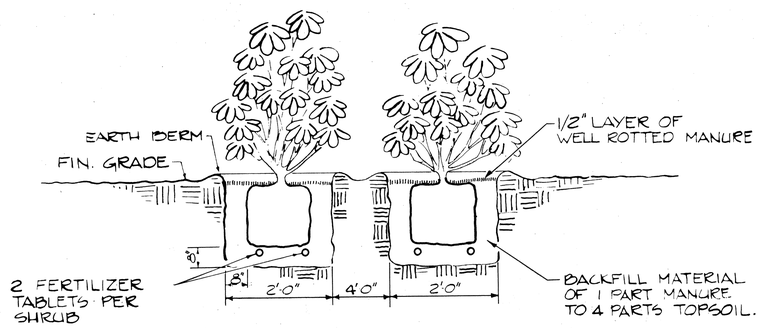
C084

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(122)16	1977	85	181



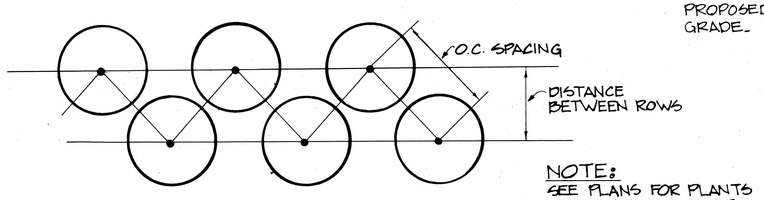
TYPICAL WIND-SCREEN DETAIL

NO SCALE



TYPICAL SHRUB PLANTING DETAIL

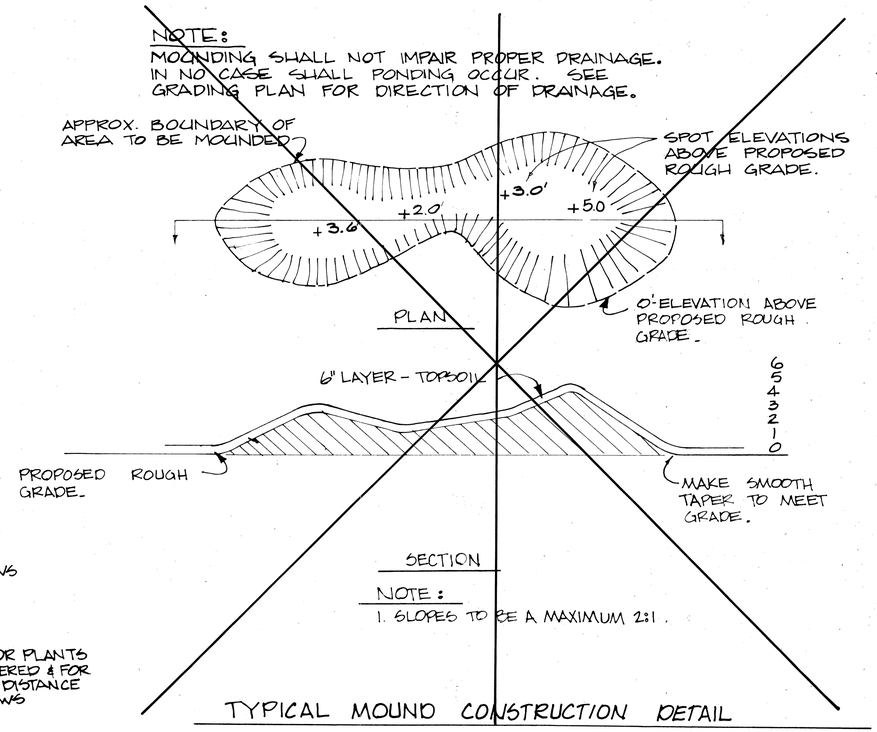
NO SCALE



NOTE:
SEE PLANS FOR PLANTS TO BE STAGGERED & FOR O.C. SPACING & DISTANCE BETWEEN ROWS

TYPICAL STAGGERED SHRUB PLANTING DETAIL

NO SCALE



TYPICAL MOUND CONSTRUCTION DETAIL

SCALE: VERT. = 1" = 5'0"
HOR. = 1" = 10'0"

STAKING / PLANTING DETAIL (TYPICAL)
SPECIMEN PALM TREES

NO SCALE

LANDSCAPE NOTES:

1. PRIOR TO EXCAVATION, ALL TREE PLANTING LOCATIONS SHALL BE STAKED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER.
2. GROUND COVERS TO BE PLANTED IN A UNIFORM TRIANGULAR PATTERN, SPACED AS SHOWN ON THE PLANS.
3. USE FERTILIZER TABLETS WITH A 20-10-5 ANALYSIS IN ALL PLANTING HOLES AT THE FOLLOWING RATES:
   5 GAL. STOCK ---- 2 TABLETS.
   25 GAL. & SPECIMEN---1 TAB. PER EVERY 1/2" CALIPER OF TRUNK.
4. STOP ALL TOPSOIL IN CONTACT WITH CURB OR WALK 02' FOOT BELOW TOP OF CONCRETE.

ROGER L. DUCK JR
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
No. 3478
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPE DETAILS

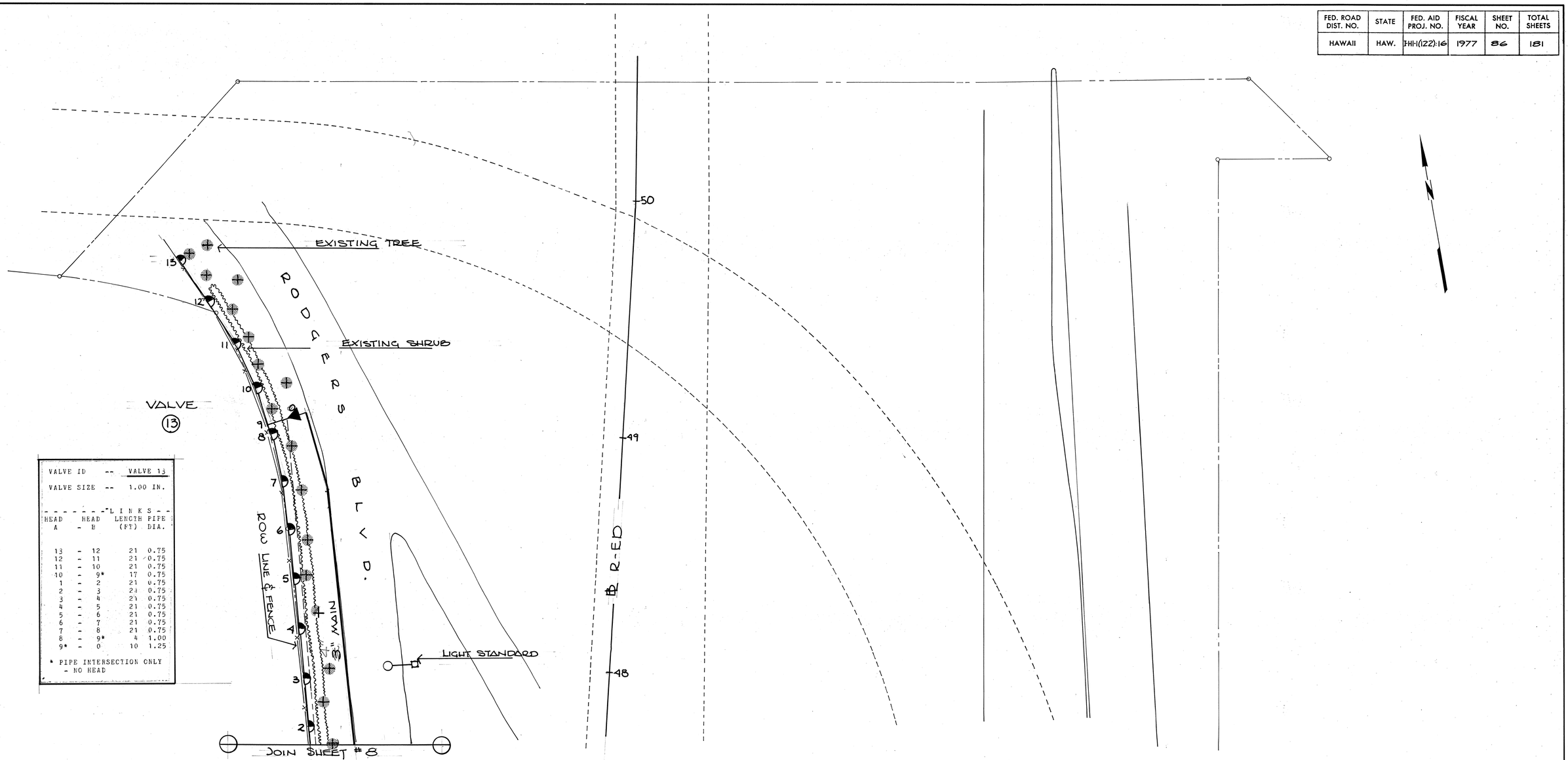
AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(122)16

SCALE: AS SHOWN DATE: 2-1-77

SHEET No. 6 OF 16 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IHH(122)16	1977	86	181



VALVE ID -- VALVE 13			
VALVE SIZE -- 1.00 IN.			
LINKS			
HEAD A	HEAD B	LENGTH (FT)	PIPE DIA.
13	12	21	0.75
12	11	21	0.75
11	10	21	0.75
10	9*	17	0.75
1	2	21	0.75
2	3	21	0.75
3	4	21	0.75
4	5	21	0.75
5	6	21	0.75
6	7	21	0.75
7	8	21	0.75
8	9*	4	1.00
9*	0	10	1.25

* PIPE INTERSECTION ONLY - NO HEAD

PROFESSIONAL LANDSCAPE ARCHITECT No. 3170

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER PLAN

AIRPORT INTERCHANGE
F.A.I. PROJ. I-HI-1(122)16

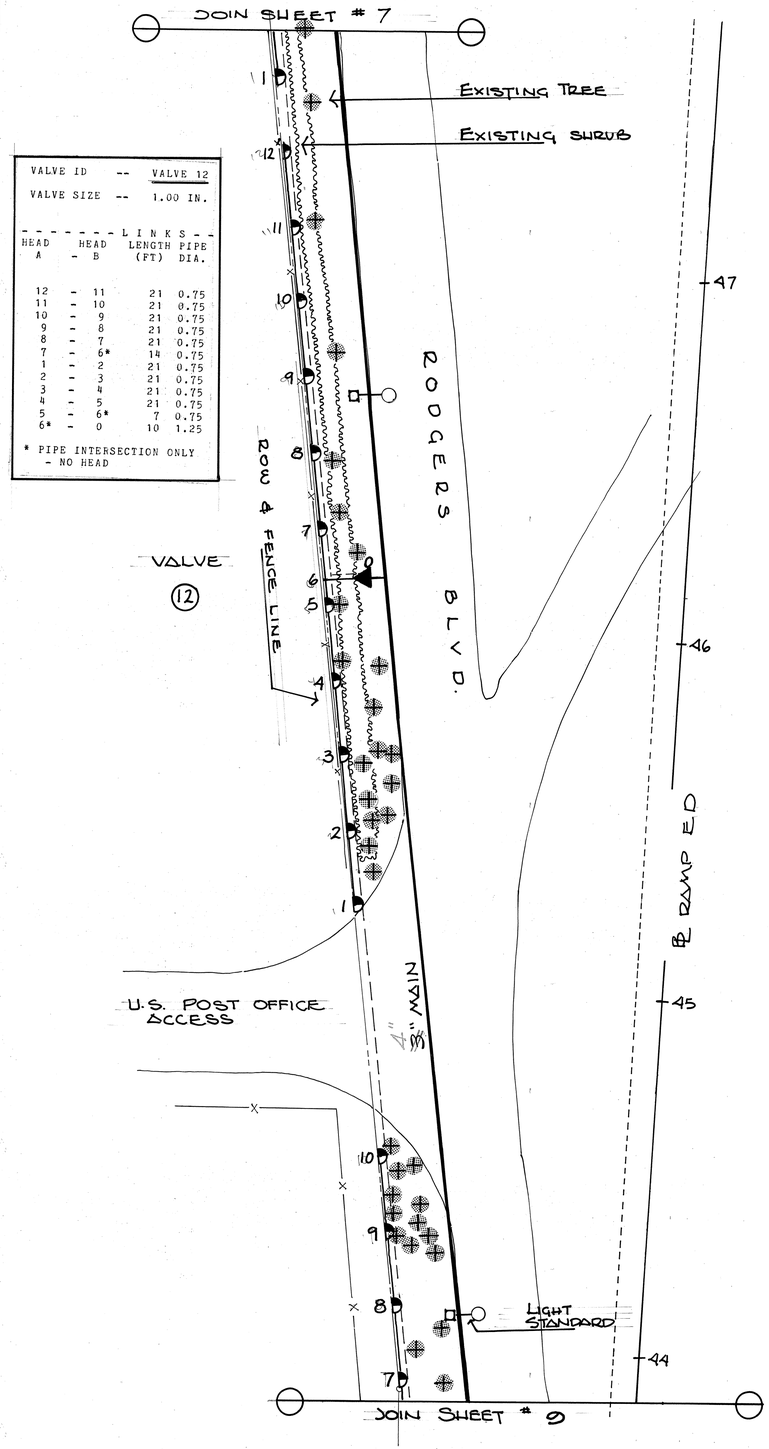
SCALE: 1"- 20' DATE : FEB. 1, 1977

SHEET No. 7 OF 16 SHEETS

86

D-3-7

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(122)16	1977	87	181



VALVE ID --	VALVE 12
VALVE SIZE --	1.00 IN.

HEAD A	HEAD B	LINKS LENGTH (FT)	PIPE DIA.
12	11	21	0.75
11	10	21	0.75
10	9	21	0.75
9	8	21	0.75
8	7	21	0.75
7	6*	14	0.75
1	2	21	0.75
2	3	21	0.75
3	4	21	0.75
4	5	21	0.75
5	6*	7	0.75
6*	0	10	1.25

* PIPE INTERSECTION ONLY - NO HEAD

REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT No. 34/6 HAWAII

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

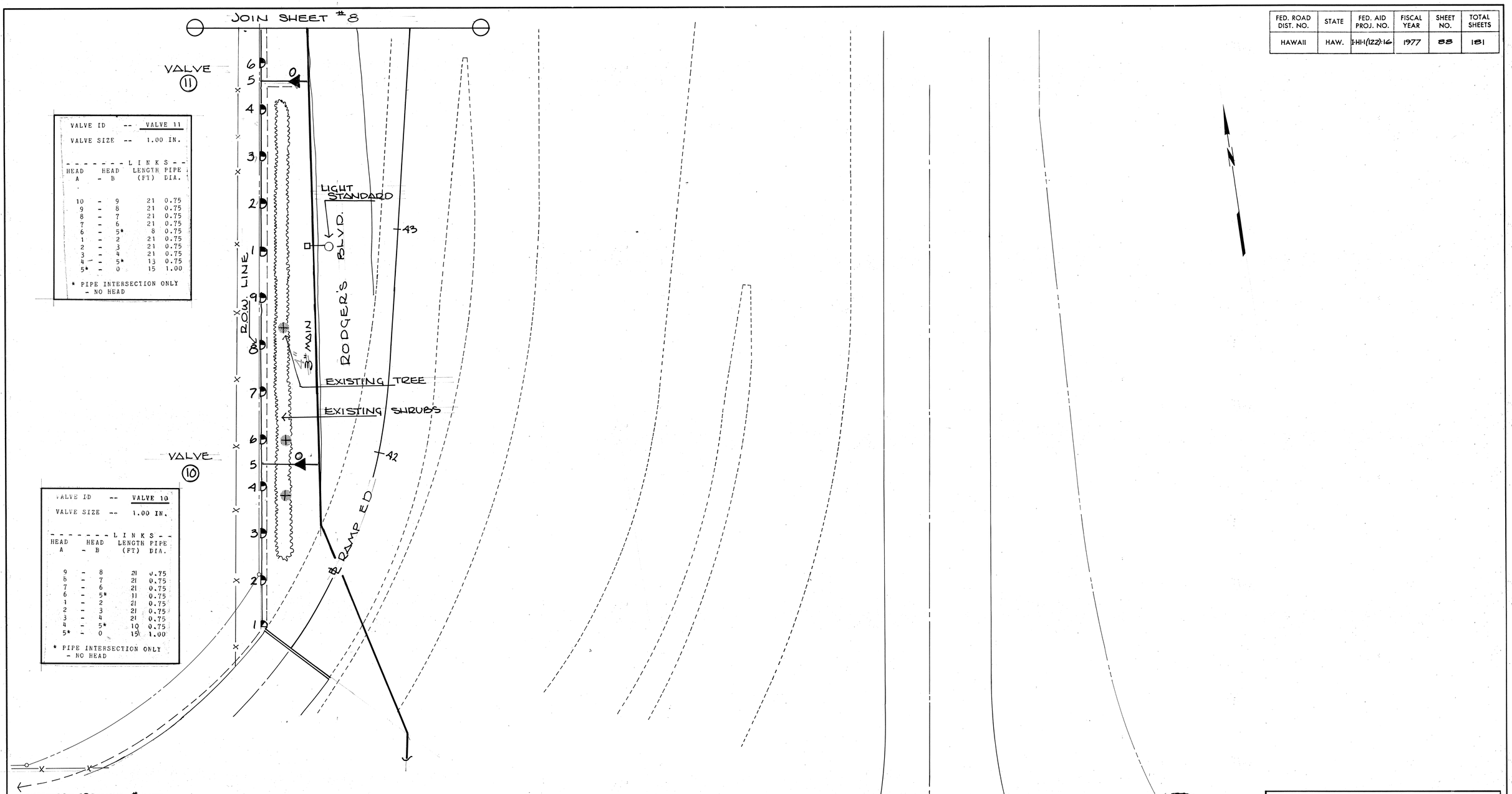
SPRINKLER PLAN

AIRPORT INTERCHANGE
F.A.I. PROJ. I-HI-1(122)16

SCALE: 1"-20' DATE: FEB. 1, 1977

SHEET No. 8 OF 16 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(122)-16	1977	88	181



VALVE ID -- VALVE 11			
VALVE SIZE -- 1.00 IN.			
LINKS			
HEAD A	HEAD B	LENGTH (FT)	PIPE DIA.
10	9	21	0.75
9	8	21	0.75
8	7	21	0.75
7	6	21	0.75
6	5*	8	0.75
1	2	21	0.75
2	3	21	0.75
3	4	21	0.75
4	5*	13	0.75
5*	0	15	1.00

* PIPE INTERSECTION ONLY - NO HEAD

VALVE ID -- VALVE 10			
VALVE SIZE -- 1.00 IN.			
LINKS			
HEAD A	HEAD B	LENGTH (FT)	PIPE DIA.
9	8	21	0.75
8	7	21	0.75
7	6	21	0.75
6	5*	11	0.75
1	2	21	0.75
2	3	21	0.75
3	4	21	0.75
4	5*	10	0.75
5*	0	15	1.00

* PIPE INTERSECTION ONLY - NO HEAD

ROBERT L. BUCK JR. REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT No. 3478 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

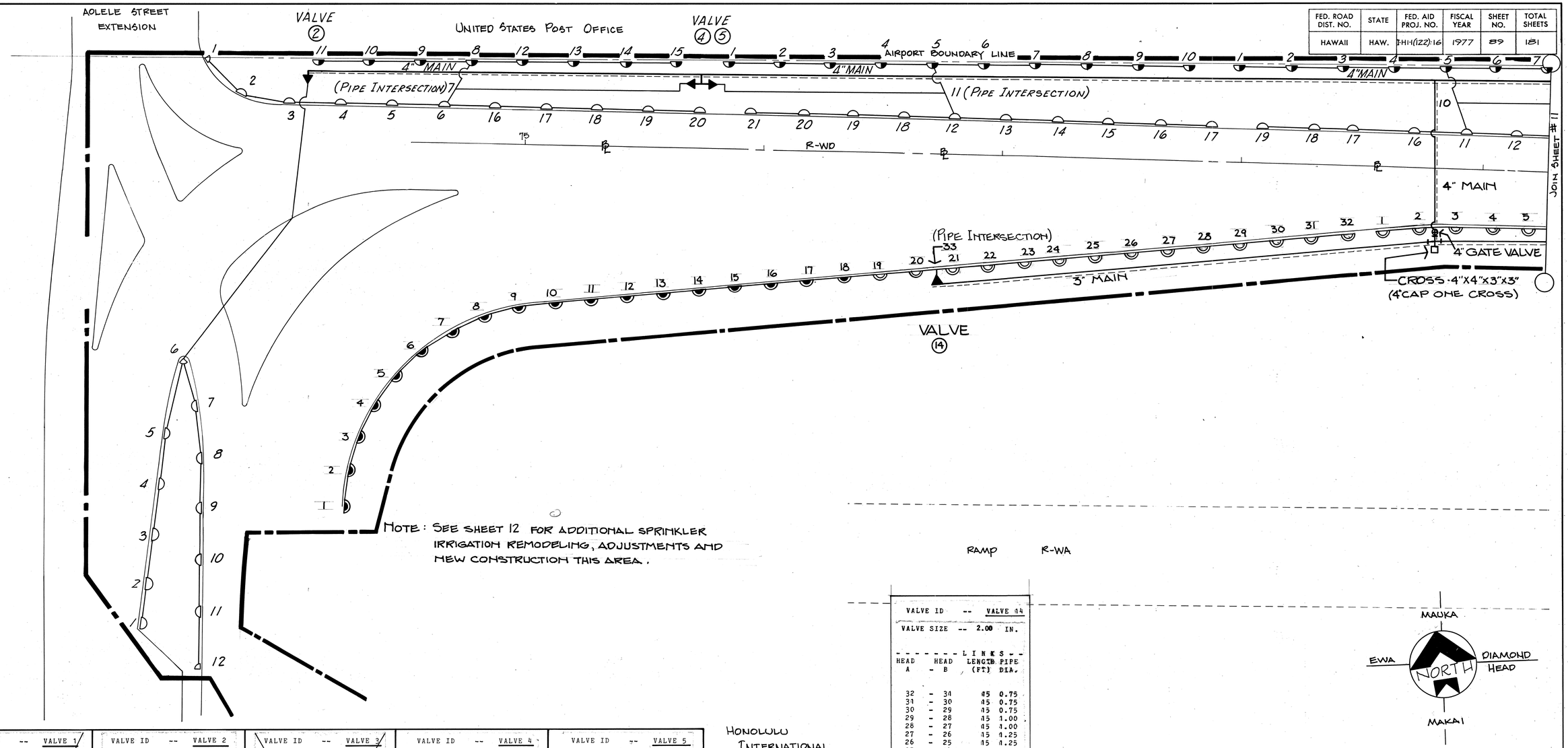
SPRINKLER PLAN

AIRPORT INTERCHANGE
F.A.I. PROJ. I-HI-1(122):16

SCALE: 1"-20' DATE: FEB. 1, 1977

SHEET No. 9 OF 16 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(122)-16	1977	89	181



VALVE ID -- VALVE 1
VALVE SIZE -- 1.25 IN.

N.I.C.

HEAD A	HEAD B	LENGTH (FT)	PIPE DIA.
7	6	12	0.75
6	5	12	0.75
5	4	12	0.75
1	2	20	0.75
2	3	12	0.75
3	4	12	0.75
4	10	20	1.25
8	7	15	0.75
9	10	11	0.75
10	11	12	1.50
14	13	12	0.75
13	12	12	0.75
12	11	12	0.75
11	15	12	1.50
22	21	12	0.75
21	20	12	0.75
20	16	14	0.75
19	18	20	0.75
18	17	12	0.75
17	16	12	0.75
15	16	12	2.50
16	0	50	2.50

VALVE ID -- VALVE 2
VALVE SIZE -- 1.00 IN.

HEAD A	HEAD B	LENGTH (FT)	PIPE DIA.
12	11	21	0.75
11	10	21	0.75
10	9	21	0.75
9	8	21	0.75
8	7	21	0.75
7	6	21	0.75
1	2	21	0.75
2	3	21	0.75
3	4	21	0.75
4	5	21	0.75
5	6	32	0.75
6	0	140	1.25

VALVE ID -- VALVE 3
VALVE SIZE -- 1.00 IN.

N.I.C.

HEAD A	HEAD B	LENGTH (FT)	PIPE DIA.
6	5	21	0.75
5	4	21	0.75
1	2	12	0.75
2	3	21	0.75
3	4	21	0.75
4	7	26	1.00
16	15	18	0.75
15	14	12	0.75
14	13	12	0.75
13	7	21	0.75
12	11	12	0.75
11	10	12	0.75
10	9	21	0.75
9	8	21	0.75
8	7	21	0.75
7	0	60	1.50

VALVE ID -- VALVE 4
VALVE SIZE -- 1.00 IN.

HEAD A	HEAD B	LENGTH (FT)	PIPE DIA.
15	14	21	0.75
14	13	21	0.75
13	12	21	0.75
12	8	21	0.75
11	10	21	0.75
10	9	21	0.75
9	8	21	0.75
8	7*	6	1.00
20	19	21	0.75
19	18	21	0.75
18	17	21	0.75
17	16	21	0.75
16	6	21	0.75
1	2	21	0.75
2	3	21	0.75
3	4	21	0.75
4	5	21	0.75
5	6	21	0.75
6	7*	17	1.00
7*	0	100	1.50

* PIPE INTERSECTION ONLY - NO HEAD

VALVE ID -- VALVE 5
VALVE SIZE -- 1.00 IN.

HEAD A	HEAD B	LENGTH (FT)	PIPE DIA.
21	20	21	0.75
20	19	21	0.75
19	18	21	0.75
18	12	21	0.75
17	16	21	0.75
16	15	21	0.75
15	14	21	0.75
14	13	21	0.75
13	12	21	0.75
12	11*	18	1.00
10	9	21	0.75
9	8	21	0.75
8	7	21	0.75
7	6	21	0.75
6	5	21	0.75
1	2	21	0.75
2	3	21	0.75
3	4	21	0.75
4	5	21	0.75
5	11*	6	1.00
11*	0	100	1.50

* PIPE INTERSECTION ONLY - NO HEAD.

HONOLULU INTERNATIONAL AIRPORT PARKING

HEAD "0" ON THE TABLE DENOTES THE VALVE.

VALVE ID -- VALVE 14
VALVE SIZE -- 2.00 IN.

HEAD A	HEAD B	LENGTH (FT)	PIPE DIA.
32	34	45	0.75
31	30	45	0.75
30	29	45	0.75
29	28	45	1.00
28	27	45	1.00
27	26	45	1.25
26	25	45	1.25
25	24	45	1.25
24	23	45	1.50
23	22	45	1.50
22	21	45	1.50
21	33*	5	1.50
1	2	45	0.75
2	3	45	0.75
3	4	45	0.75
4	5	45	1.00
5	6	45	1.00
6	7	45	1.25
7	8	45	1.25
8	9	45	1.25
9	10	45	1.50
10	11	45	1.50
11	12	45	1.50
12	13	45	1.50
13	14	45	2.00
14	15	45	2.00
15	16	45	2.00
16	17	45	2.00
17	18	45	2.00
18	19	45	2.50
19	20	45	2.50
20	33*	40	2.50
33*	0	3	3.00

* PIPE INTERSECTION ONLY - NO HEAD

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

NO.	DATE	REVISION
2		Deleted Valves 1 & 3 and sprinklers in Traffic Islands
1	1-15-78	Revised Sprinkler Heads 1-5 (Valve 5) and 19-32 (Valve 14)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER PLAN

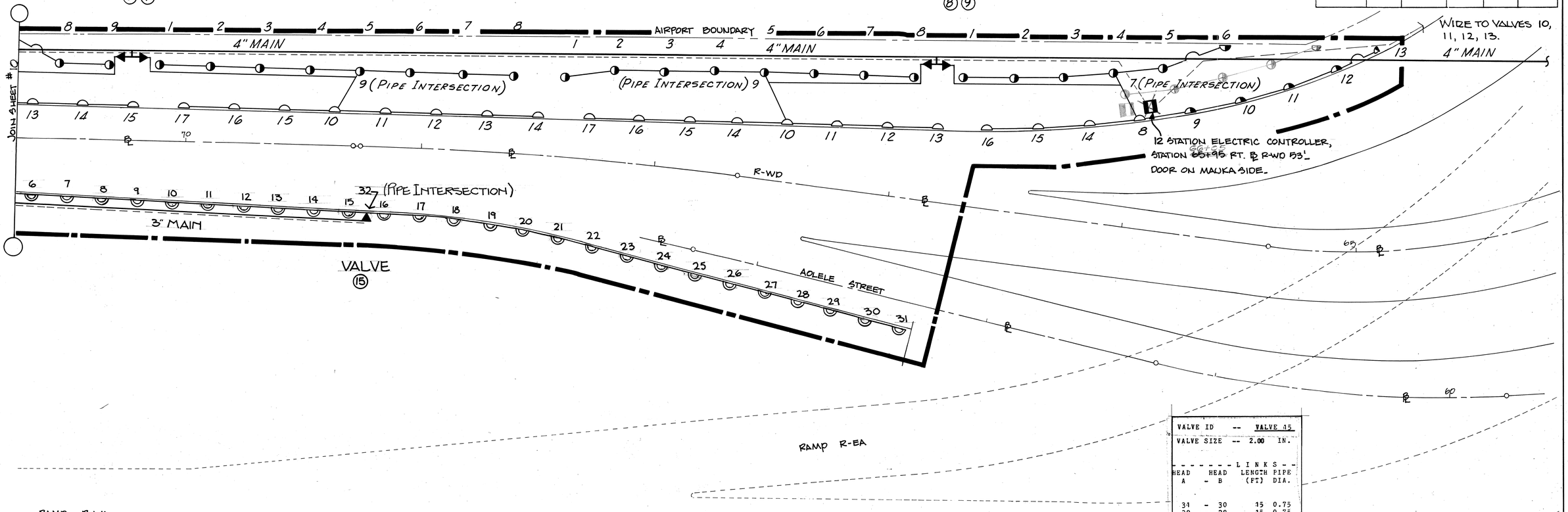
AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(122)16

SCALE : 1"=20' DATE : 2-1-77

SHEET No. 10 OF 16 SHEETS

C089

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(122)16	1977	90	131



HONOLULU INTERNATIONAL AIRPORT PARKING

HEAD "0" ON THE TABLES DENOTES THE VALVE.

VALVE ID -- VALVE 6
VALVE SIZE -- 1.00 IN.

HEAD A	HEAD B	LENGTH (FT)	PIPE DIA.
19	18	21	0.75
18	17	16	0.75
17	16	26	0.75
16	11	21	0.75
15	14	21	0.75
14	13	21	0.75
13	12	21	0.75
12	11	21	0.75
11	10*	24	1.00
9	8	21	0.75
8	7	25	0.75
7	6	21	0.75
6	5	21	0.75
1	2	21	0.75
2	3	21	0.75
3	4	21	0.75
4	5	21	0.75
5	10*	6	1.00
10*	0	90	1.50

* PIPE INTERSECTION ONLY - NO HEAD

VALVE ID -- VALVE 7
VALVE SIZE -- 1.00 IN.

HEAD A	HEAD B	LENGTH (FT)	PIPE DIA.
17	16	21	0.75
16	15	21	0.75
15	10	21	0.75
14	13	21	0.75
13	12	21	0.75
12	11	21	0.75
11	10	21	0.75
10	9*	18	1.00
8	7	21	0.75
7	6	21	0.75
6	5	21	0.75
1	2	21	0.75
2	3	21	0.75
3	4	21	0.75
4	5	21	1.00
5	9*	1	1.25
9*	0	95	1.50

* PIPE INTERSECTION ONLY - NO HEAD

VALVE ID -- VALVE 8
VALVE SIZE -- 1.00 IN.

HEAD A	HEAD B	LENGTH (FT)	PIPE DIA.
17	16	21	0.75
16	15	21	0.75
15	14	21	0.75
14	10	21	0.75
13	12	21	0.75
12	11	21	0.75
11	10	21	0.75
10	9*	24	1.00
8	7	21	0.75
7	6	21	0.75
6	5	21	0.75
1	2	21	0.75
2	3	21	0.75
3	4	21	0.75
4	5	21	1.00
5	9*	1	1.25
9*	0	75	1.50

* PIPE INTERSECTION ONLY - NO HEAD

VALVE ID -- VALVE 9
VALVE SIZE -- 1.00 IN.

HEAD A	HEAD B	LENGTH (FT)	PIPE DIA.
16	15	21	0.75
15	14	21	0.75
14	8	21	0.75
13	12	21	0.75
12	11	21	0.75
11	10	21	0.75
10	9	21	0.75
9	8	21	0.75
8	7*	23	1.00
6	5	28	0.75
5	4	21	0.75
1	2	21	0.75
2	3	21	0.75
3	4	21	0.75
4	7*	1	1.00
7*	0	78	1.50

* PIPE INTERSECTION ONLY - NO HEAD

VALVE ID -- VALVE 15
VALVE SIZE -- 2.00 IN.

HEAD A	HEAD B	LENGTH (FT)	PIPE DIA.
31	30	15	0.75
30	29	15	0.75
29	28	15	0.75
28	27	15	1.00
27	26	15	1.00
26	25	15	1.25
25	24	15	1.25
24	23	15	1.25
23	22	15	1.50
22	21	15	1.50
21	20	15	1.50
20	19	15	1.50
19	18	15	2.00
18	17	15	2.00
17	16	15	2.00
16	32*	4	2.00
1	2	15	0.75
2	3	15	0.75
3	4	15	0.75
4	5	15	1.00
5	6	15	1.00
6	7	15	1.25
7	8	15	1.25
8	9	15	1.25
9	10	15	1.50
10	11	15	1.50
11	12	15	1.50
12	13	15	1.50
13	14	15	2.00
14	15	15	2.00
15	32*	44	2.00
32*	0	3	3.00

* PIPE INTERSECTION ONLY - NO HEAD

ROGER L. EVICH, REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT, NO. 3476, HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

NO.	DATE	REVISION
1	1-15-78	Revised Sprinkler Heads G-31 (Valve 15)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER PLAN

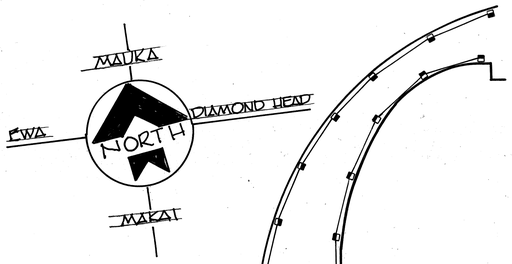
AIRPORT INTERCHANGE
F.A.I. PROJ. I-HI-1(122)16

SCALE : 1"=20' DATE : 2-1-77

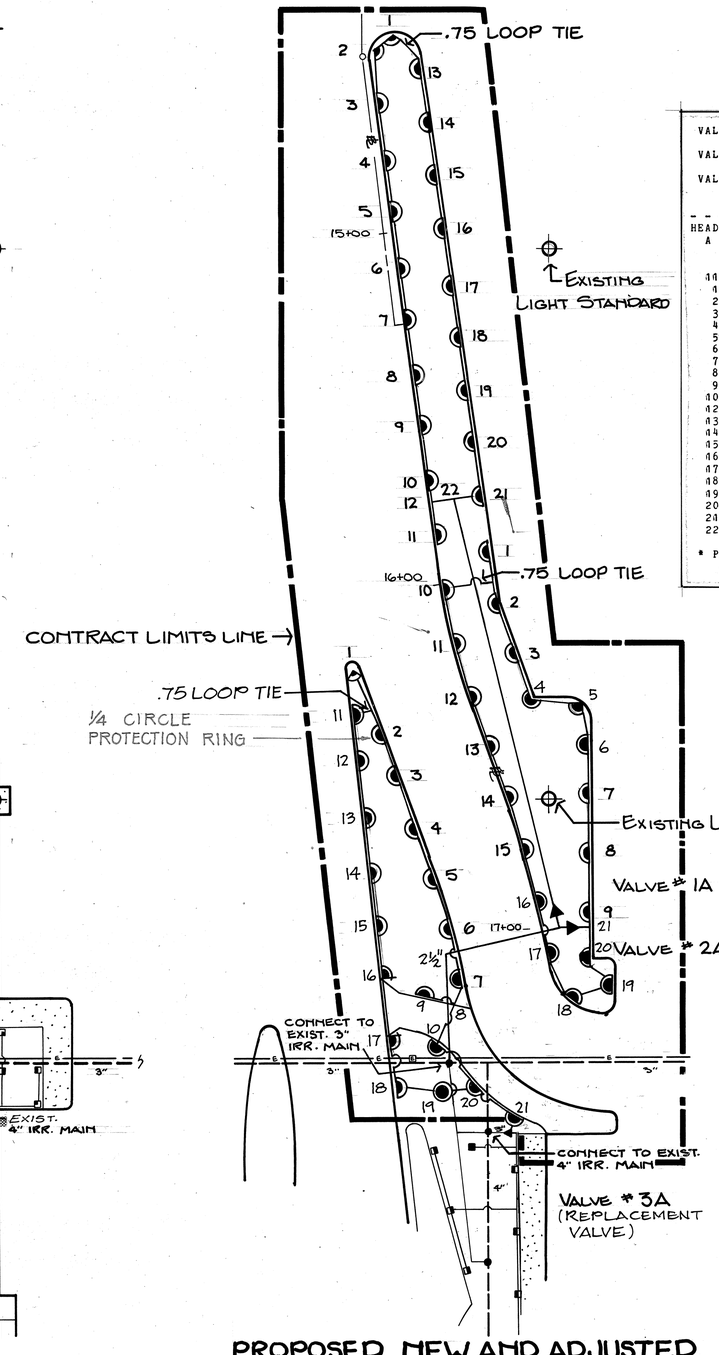
SHEET No. 11 OF 16 SHEETS

C090

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(122)16	1977	91	181



EXISTING IRRIGATION



PROPOSED NEW AND ADJUSTED IRRIGATION

VALVE ID -- VALVE 1A			
VALVE MODEL -- 150 SERIES			
VALVE SIZE -- 1.25 IN.			
LINKS			
HEAD A	HEAD B	LENGTH (FT)	PIPE DIA.
11	12*	10	0.75
1	2	7	0.75
2	3	15	0.75
3	4	15	0.75
4	5	15	0.75
5	6	15	1.00
6	7	15	1.00
7	8	15	1.25
8	9	15	1.25
9	10	15	1.25
10	12*	5	1.50
12*	22*	7	1.50
13	14	15	0.75
14	15	15	0.75
15	16	15	0.75
16	17	15	1.00
17	18	15	1.00
18	19	15	1.25
19	20	15	1.25
20	24	15	1.25
24	22*	8	1.50
22*	0	120	2.50

* PIPE INTERSECTION ONLY - NO HEAD

VALVE ID -- VALVE 2A			
VALVE MODEL -- 150 SERIES			
VALVE SIZE -- 1.50 IN.			
LINKS			
HEAD A	HEAD B	LENGTH (FT)	PIPE DIA.
~~5~~	~~6*~~	~~10~~	~~0.75~~
1	2	15	0.75
2	3	15	0.75
3	4	15	~~0.75~~ 1.00
4	~~5~~ 6*	14 15	1.00
~~5~~ 6*	~~6~~ 7*	14	1.00
10	11	15	0.75
11	12	15	0.75
12	13	15	~~0.75~~ 1.00
13	14	15	1.00
14	15	15	1.00
15	16	15	1.25
16	17	15	1.25
17	18	15	1.25
18	19	12 15	~~1.50~~ 1.25
19	20	12 13	1.50
20	21	8 08	1.50
~~21~~	~~22~~	~~11~~	~~1.50~~
6 22	7 23*	14	~~1.50~~ 1.25
7	8	15	1.25
8	9	15	1.25
9	23* 21*	4 15	1.25
21* 23*	0	5 8	2.50 2.00

* PIPE INTERSECTION ONLY - NO HEAD

VALVE ID -- VALVE 3A			
VALVE MODEL -- 150 SERIES			
VALVE SIZE -- 1.50 IN.			
LINKS			
HEAD A	HEAD B	LENGTH (FT)	PIPE DIA.
~~13~~	~~11~~	~~7~~	~~0.75~~
~~11~~	~~12~~	~~6~~	~~0.75~~
~~12~~	~~11~~	~~9~~	~~0.75~~
~~11~~	~~10~~	~~11~~	~~0.75~~
~~10~~	~~9~~	~~11~~	~~0.75~~
1	2	21	0.75
2	3	12	0.75
3	4	15	0.75
4	5	15	1.00
5	6	15	1.00
6	7	15	1.25
7	8*	8 15	1.25
8*	9	8 15	~~1.25~~ 1.75
~~8*~~ 9	10 24*	12 7	~~1.50~~ 1.25
10 23	20 46	15	~~0.75~~ 1.25
11 16	12 17	15	0.75
12 17	13 18	15	0.75
13 18	14 19	15	1.00
14 19	15 20	15	1.00
15 20	16 21	15	~~1.25~~ 1.00
16 21	17 22	18 15	1.25
17 22	18 23	15 18	1.25
18 23	19 24*	11 16	~~1.50~~ 1.25
19 24*	20 25*	11 3	~~2.50~~ 1.25
20 25*	21 26	15 5	2.50 2.00
21 26	0	5	2.50 2.00

* PIPE INTERSECTION ONLY - NO HEAD

HEAD "0" ON THE TABLE DENOTES THE VALVE.

VALVES	
1A = (1 2 7 A)	48.2 GPM 30 PSI @ HEADS
2A = (1 2 6 C)	49.7 GPM 30 PSI @ HEADS
3A = (1 2 7 A)	48.6 GPM 30 PSI @ HEADS

NOTE: VALVE TO PROGRAMMER DESCRIPTION

NOTE:
CONTRACTOR SHALL MAINTAIN EXISTING VALVE UNTILL THE NEW VALVE 3A CAN BE INSTALLED TO REPLACE IT.

NO.	DATE	REVISIONS
1	10/25/77	REVISED SPRINKLER LAYOUT @ ENTRANCE TO PARKING AREA

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER PLAN

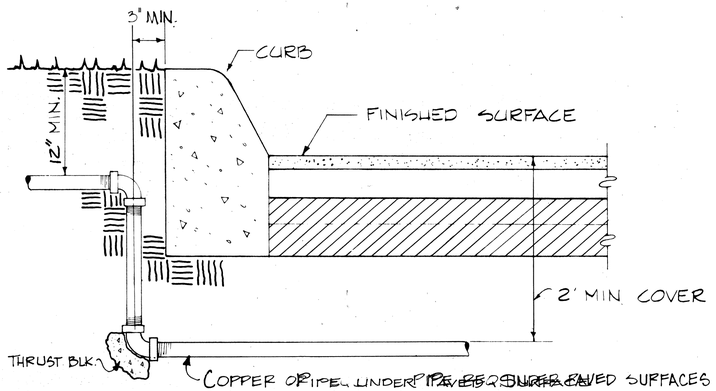
AIRPORT INTERCHANGE
F.A.I. PROJ. I-HI-1(122) 16

SCALE: 1"=20' DATE: FEB 1, 1977

SHEET No. 12 OF 16 SHEETS

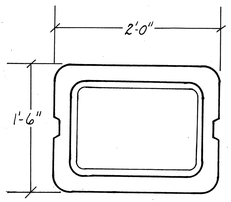
C091

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(122)-16	1977	92	181

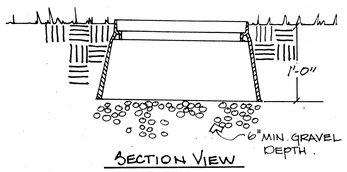


TYPICAL ROADWAY CROSSING DETAIL

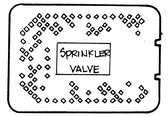
NO SCALE



TOP VIEW



SECTION VIEW



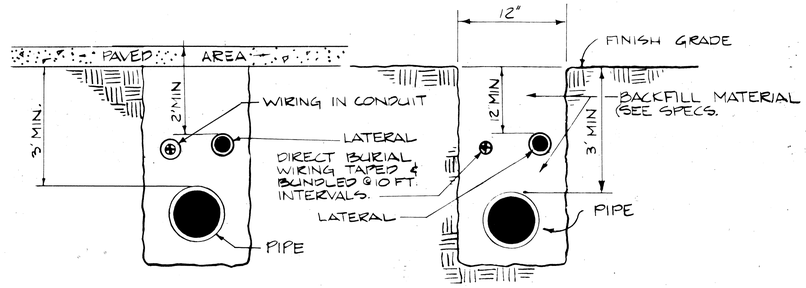
LOCKABLE LID

TYPE 'A' VALVE BOX

NO SCALE

1. THIS TYPE "A" VALVE BOX IS TO BE USED AS AN IRRIGATION ELECTRIC PULL-BOX WHERE REQUIRED.
2. THE TYPE "A" VALVE BOX IS SIMILAR TO A HONOLULU BOARD OF WATER SUPPLY TYPE "X" BOX.
3. THE VALVE COVER MAYBE SUBSTITUTED WITH THE BWS METER COVER, BUT THE WORDS "BOARD OF WATER SUPPLY" AND "WATER METER" SHALL BE GROUND OFF. IMPRINT THE WORDS "SPRINKLER VALVE." ON THE COVER.
4. PLASTIC VALVE BOXES MAYBE SUBSTITUTED FOR THE TYPE "A" VALVE BOXES. PLASTIC BOXES SHALL BE COMMERCIALLY MANUFACTURED PRODUCTS AND SHALL BE A RIDGID COMBINATION OF POLYOLEFIN AND FIBROUS INORGANIC COMPONENTS. PHYSICAL PROPERTIES SHALL BE AS FOLLOWS:

	ASTM TEST METHOD	MINIMUM TEST VALUE
TENSILE STRENGTH	D 638	3,400 PSI
IMPACT STRENGTH	D 256	1.5 FT. LBS./IN.
DUROMETER HARDNESS	D 676	63
DEFLEC. TEMP.	D 648	230°F.
SPECIFIC GRAVITY	D 792	1.15



TYPICAL PIPE TRENCH DETAIL

NO SCALE

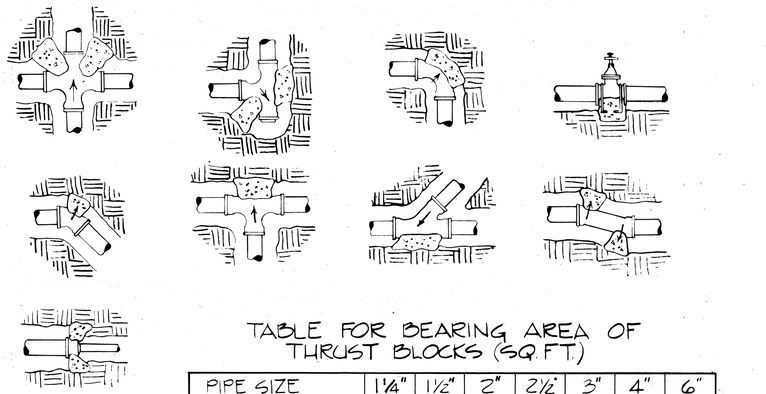
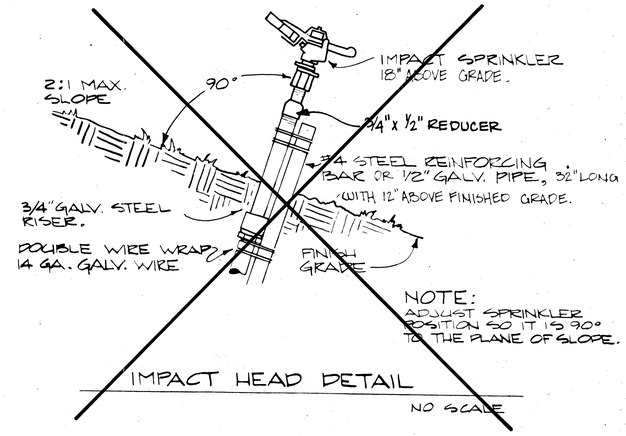


TABLE FOR BEARING AREA OF THRUST BLOCKS (SQ. FT.)

PIPE SIZE	1¼"	1½"	2"	2½"	3"	4"	6"
TEES & CROSSES	0.50	0.50	0.50	0.50	1.00	1.25	3.00
90° BEND	0.50	0.50	0.50	0.75	1.25	2.00	4.00
45° BEND	0.50	0.50	0.50	0.50	0.75	1.00	2.25

TYPICAL THRUST BLOCK DETAILS

NO SCALE



IMPACT HEAD DETAIL

NO SCALE

ROGER L. BUCK, JR. REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT No. 3478 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

NO.	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER DETAILS

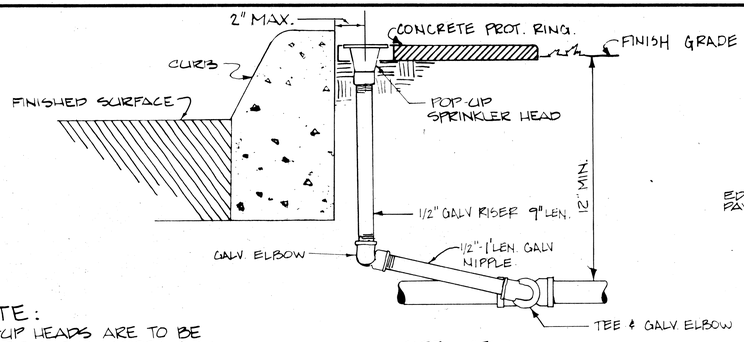
AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(122)16

SCALE: AS SHOWN DATE: 2-1-77

SHEET No. 13 OF 16 SHEETS

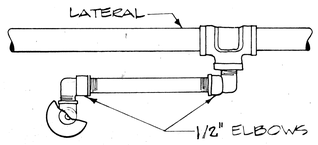
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
NOTE BOOK	TRACED BY	
	DESIGNED BY	
No.	QUANTITIES BY	
	CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(122)16	1977	93	181



SIDE VIEW

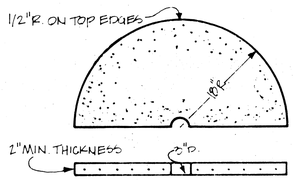
NOTE:
POP-UP HEADS ARE TO BE PLACED ALONG CURBS & SHALL HAVE SWING JOINTS. ALL HEADS WILL BE A MIN OF ONE TENTH FOOT BELOW TOP OF CURB AS SHOWN.



TOP VIEW

TYPICAL POP-UP DETAIL
SWING JOINT

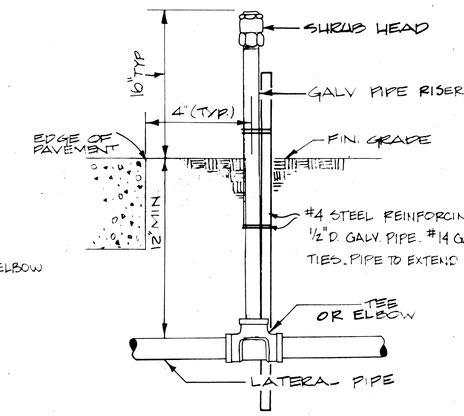
NO SCALE



4"x4" 10-10 GA. WIRE MESH REINF.

CLASS "B" CONCRETE TINTED TO SPECIFIED COLOR.

TYPICAL PROTECTION RING DETAIL
NO SCALE



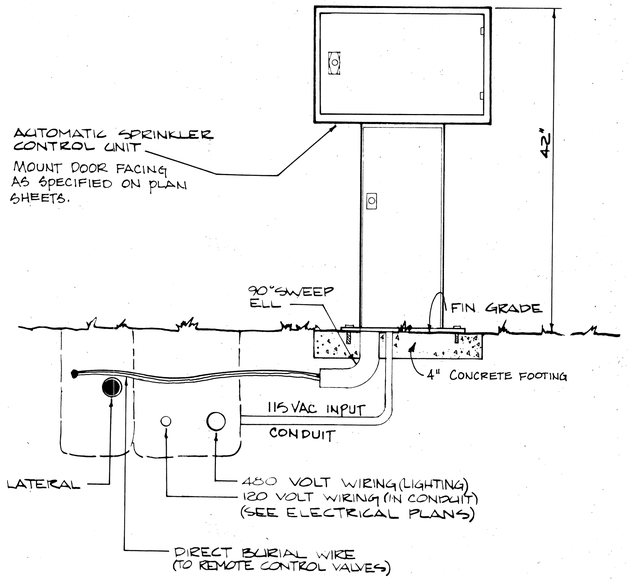
TYPICAL SHRUB HEAD DETAIL
NO SCALE

GENERAL NOTES

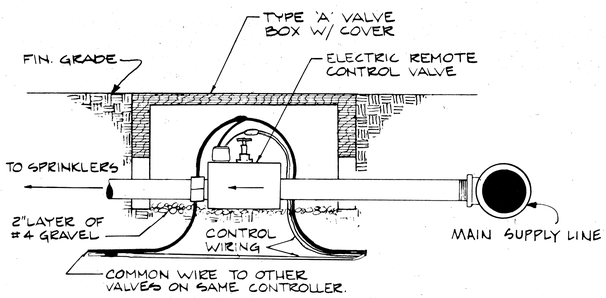
1. FINAL LOCATIONS OF VALVES, BACKFLOW PREVENTERS, CONTROLLERS AND SUPPLY LINES SHALL BE DETERMINED BY THE ENGINEER.
2. CONCRETE REACTION BLOCKS SHALL BE CLASS 'B' CONCRETE.
3. MIN. M&M LINE SIZE BETWEEN SPRINKLER HEADS SHALL BE AS SHOWN ON THE TABLES.
4. LINE SIZES UP TO AND INCLUDING 3" SHALL BE GALVANIZED STEEL, COPPER OR P.V.C. PIPE EXCEPT THAT PIPE UNDER PAVED AREAS SHALL BE COPPER. ALL PIPE ABOVE GROUND TO BE GALVANIZED STEEL.
5. ALL WIRING UNDER PAVED AREAS SHALL BE INSTALLED IN CONDUITS.
6. NO ROCKS OR SHARP OBJECTS ONE INCH OR LARGER SHALL BE USED IN BACKFILL MATERIAL FOR TRENCHES.
7. CONTRACTOR SHALL ADJUST ALL SPRINKLER HEADS FOR PROPER COVERAGE, AND NOTIFY THE ENGINEER OF ANY ALTERATIONS TO THE PLANS.
8. TWO 24"± LONG HEAVY PLATED IRON KEYS SHALL BE PROVIDED FOR CONTROL VALVES AND SHALL BE INCIDENTAL TO VALVE COST.
9. ~~IRRIGATION LINES PASSING THRU A RETAINING WALL WILL PASS THRU A 2½"Ø P.V.C. RACEWAY FITTED INTO THE WALL AT THE TIME OF FORMING.~~
10. NIPPLES AND RISERS TO SPRINKLER HEADS FROM FEEDER LINES SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS OF THE SPRINKLER SYSTEM AND SHALL NOT BE MEASURED FOR PAYMENT.

SPRINKLER LEGEND

SPRINKLER	SYMBOL	DESCRIPTION	PRESSURE PSI.	COVERAGE FT.	FLOW GPM	NOZZLE INCHES	RISER INCHES	SPECIAL FEATURES
P-12	●	LOW ANGLE POP-UP - FULL	20	12 RAD.	3.0		1/2	2" POP-UP, LOW ANGLE SPRAY
P-12	◓	LOW ANGLE POP-UP - HALF	20	12 RAD.	2.5		1/2	
P-12	◔	LOW ANGLE POP-UP - QUARTER	20	12 RAD.	1.8		1/2	
S-13	◠	SHRUB HEAD - HALF	30	14 RAD	2.5		½	PORTION OF RISER ABOVE GROUND LINE TO BE 8" MINIMUM LENGTH
								2" POP-UP STREAM SPRAY
P-22S	◠	LAWN POP-UP - HALF	35	21 RAD.	1.3		1/2	
P-22S	◔	LAWN POP-UP - QUARTER	35	21 RAD.	.9		1/2	
S-22S	◑	SHRUB SPRAY - FULL	35	21 RAD.	2.4		1/2	STREAM SPRAY
S-22S	◓	SHRUB SPRAY - HALF	35	21 RAD.	1.3		1/2	
P-13	◉	POP-UP SHORT RAD. - FULL	30	14' RAD.	3.8		1/2	23/16" HIGH POP - RAMP WD HEADS WITH CONCRETE PROTECTION RINGS - RODGERS - PLACE HEADS ON RISERS.
P-13	◔	POP-UP SHORT RAD. - 3/QTR.	30	14' RAD.	3.1		1/2	
P-13	◓	POP-UP SHORT RAD. - HALF	30	14' RAD.	2.5		1/2	
P-13	◒	POP-UP SHORT RAD. - THIRD	30	14' RAD.	1.9		1/2	
P-13	◔	POP-UP SHORT RAD. - QUARTER	30	14' RAD.	1.6		1/2	
	▮	ELECTRIC 12 STATION AUTOMATIC CONTROLLER						PEDESTAL MOUNT
	◂	ELECTRIC REMOTE CONTROL VALVE W/ TYPE A VALVE BOX						24V WATERPROOF SOLENOID.
	~~▮~~	~~ELECTRIC 10 STATION AUTOMATIC CONTROLLER~~						~~PEDESTAL MOUNT~~



CONTROLLER & TRENCHING DETAIL
NO SCALE



VALVE ASSEMBLY DETAIL
NO SCALE

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

NO.	DATE	REVISION
1	1/15/78	ADDED S-13 SPRINKLER HEAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER DETAILS

AIRPORT INTERCHANGE
F.A.I. PROJ NO I-HI-1(122)16

SCALE: AS SHOWN DATE: 2-1-77

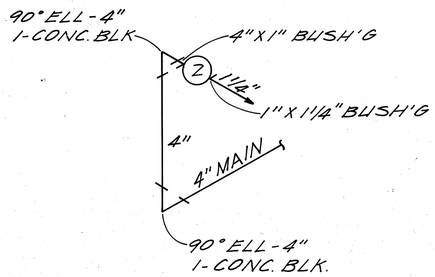
SHEET No 14 OF 16 SHEETS

ROGER L. RUCK
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
No. 2476
HAWAII

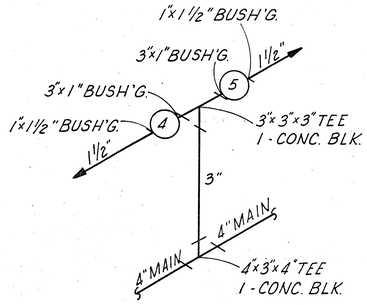
THIS PLAN WAS PREPARED BY ME OR UNDER MY SUPERVISION

C093

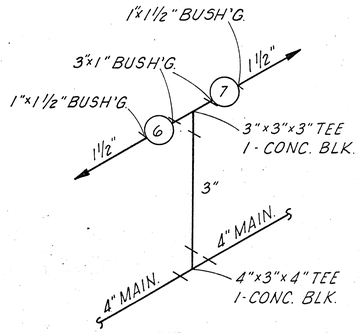
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(122)16	1977	94	181



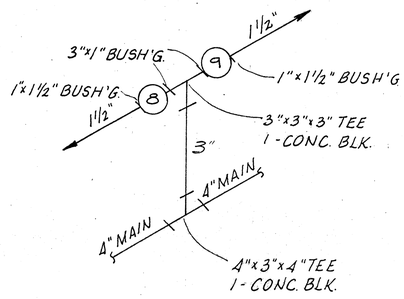
VALVE (2) - 1"



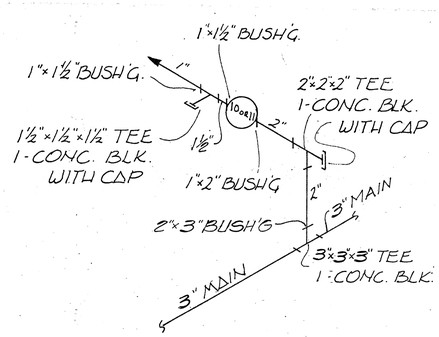
VALVE (4) - 1" (5) - 1"



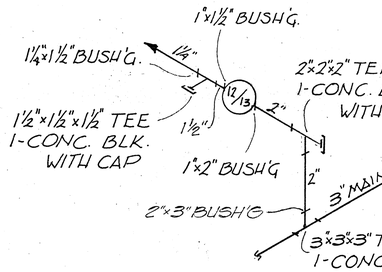
VALVE (6) - 1" (7) - 1"



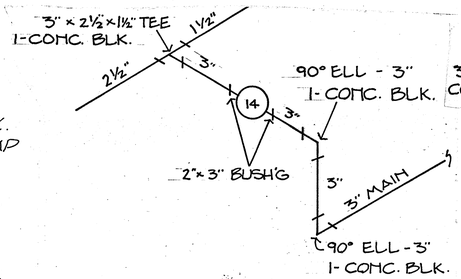
VALVE (8) - 1" (9) - 1"



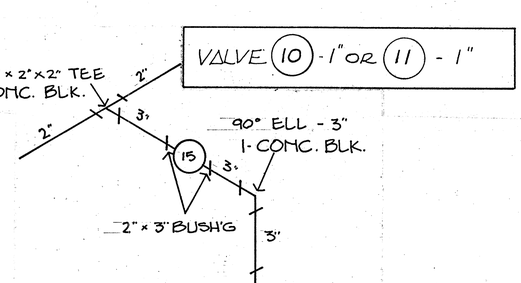
VALVE (10) - 1" OR (11) - 1"



VALVE (12) - 1" OR (13) - 1"

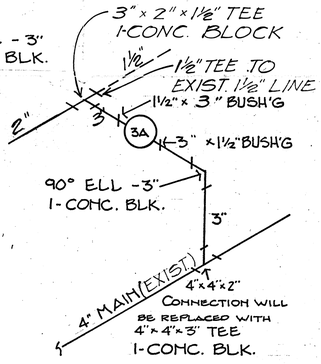


VALVE (14) - 2"



VALVE (15) - 2"

VALVE (1A) - 1 1/4" & (2A) - 1 1/2"



VALVE (3A) - 1 1/2"

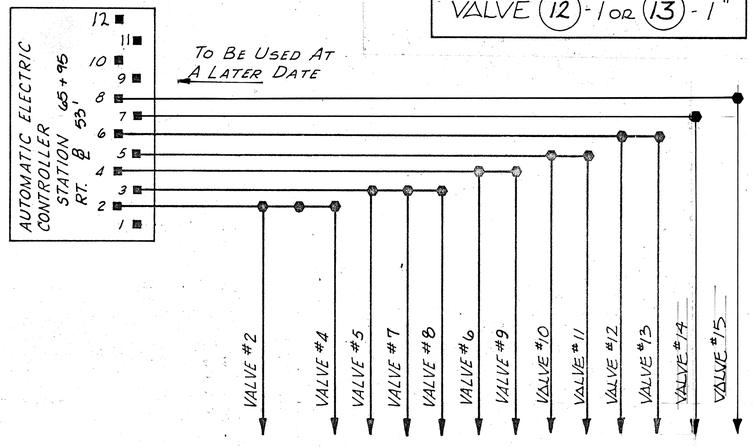
OPERATION MTWThFS	STATION	MIN.
START SYSTEM 2 A.M.	1	
	2	24
	3	33
	4	37
	5	28
	6	31
	7	9
	8	9
	9	—
	10	—

CONTROLLER AT WD RAMP 65+95

STATION CLOCK TIMES FOR 1 1/2" WATER/WEEK

OPERATION MTWThFS	STATION	MIN.
FIT TIMES INTO EXISTING AIRPORT #1 CONTROLLER	1A	7
	2A	7
	3A	6

#1 CONTROLLER AT AIRPORT PARKING LOT



VALVE SCHEDULE TO CONTROLLER STATION

NO.	DATE	REVISION
2		Deleted Valves (1) & (3)
1	11-1-77	Revised Fittings for Valves (1A) - (2A) and (3A)

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Roger L. Buck

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER DETAILS
ISOMETRIC VALVE LAYOUT & SCHEDULE

AIRPORT INTERCHANGE
F.A.I. PROJ. I-HI-1(122)16

SCALE: NO SCALE DATE: 2-1-77

SHEET No. 15 OF 16 SHEETS

CO 941

SPRINKLER SUMMARY

ESTIMATED QUANTITIES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(122)16	1977	95	181

SYSTEM NO.	ITEM NO.	616 070 2½-INCH RIGID STEEL PIPE ACP, OR PVC PIPE CONDUIT	616 070 ¾-INCH GALVANIZED STEEL OR POLYETHYLENE PIPE	616 100 ¾-INCH GALVANIZED STEEL PIPE	616 101 ¾-INCH GALVANIZED STEEL PIPE	616 111 ¾-INCH COPPER PIPE	616 112 1-INCH COPPER PIPE	616 1730 1¼-INCH COPPER PIPE	616 1740 1½-INCH COPPER PIPE	616 115 2-INCH COPPER PIPE	616 1760 2½-INCH COPPER PIPE	616 117 3-INCH COPPER PIPE	616 130 ¼-INCH GALVANIZED STEEL COPPER OR PVC PIPE	616 1810 ¾-INCH GALVANIZED STEEL COPPER OR PVC PIPE	616 1820 1-INCH GALVANIZED STEEL, COPPER OR PVC PIPE	616 1830 1¼-INCH GALVANIZED STEEL, COPPER OR PVC PIPE	616 1840 1½-INCH GALVANIZED STEEL, COPPER OR PVC PIPE	616 1850 2-INCH GALVANIZED STEEL, COPPER OR PVC PIPE	616 1860 2½-INCH GALVANIZED STEEL, COPPER OR PVC PIPE	616 137 3-INCH GALVANIZED STEEL, COPPER OR PVC PIPE	616 138 4-INCH GALVANIZED STEEL, COPPER OR PVC PIPE	616 205 S-10F SPRINKLER HEAD	616 2105 P-12 SPRINKLER HEAD	616 2150 P-13 SPRINKLER HEAD	616 2170 P-22S SPRINKLER HEAD	616 2180 S-22S SPRINKLER HEAD	616 2290 S-13 SPRINKLER HEAD	616 2810 STATION AUTOMATIC CONTROLLER 12 STATION MINIMUM	616 2830 1-INCH ELECTRIC CONTROL VALVE W/TYPE A VALVE BOX	616 2840 1¼-INCH ELECTRIC CONTROL VALVE W/TYPE A VALVE BOX	616 2850 1½-INCH ELECTRIC CONTROL VALVE W/TYPE A VALVE BOX	616 2860 2-INCH ELECTRIC CONTROL VALVE W/TYPE A VALVE BOX	616 287 2½-INCH ELECTRIC CONTROL VALVE W/TYPE A VALVE BOX	616 2900 DIRECT BURIAL CABLES	616 304 FURNISHING AND INSTALLING 6-INCH DIA SLEEVE (CLASS 150)	REMARKS
	UNIT USED	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.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LIN.FT.	LIN.FT.	
1	STATION 1 WD 75+90 RT. ℄ 30'																																		
2	STATION WD 75+90 RT. ℄ 30'							140						242												12			1					1080	
3	STATION WD 75+90 RT. ℄ 30'																																		
4	STATION WD 74+25 RT. ℄ 30'													357	23		100			2						11	8		1					920	
5	STATION WD 74+25 RT. ℄ 30'													378	24		100									10	10		1					920	
6	STATION WD 70+20 RT. ℄ 38'													340	30		90			2						9	9		1					500	
7	STATION WD 70+20 RT. ℄ 38'													273	39	1	95									8	8		1					500	
8	STATION WD 66+80 RT. ℄ 63'													273	45	1	75			2						8	8		1					160	
9	STATION WD 66+80 RT. ℄ 63'													280	24		78									4	11		1					160	
10	STATION ED 41+80 LT. ℄ 36'													145	15												8		1					445	
11	STATION ED 43+62 LT. ℄ 52'													168	15												9		1					535	
12	STATION ED 46+13 LT. ℄ 91'													210		10											11		1					895	
13	STATION ED 49+00 LT. ℄ 142'													227	4	10											12		1					2400	
14	STATION WD 73+20 LT. ℄ 52'													90	60	90	110	75	40	210					18			14				1		900	
15	STATION WD 69+22 LT ℄ 30'													90	60	90	120	90		200								31				1		900	
CONTROLLER #1			45																										1						
1A	STATION RODG. PL. 17+00 LT ℄ 10'		20								20			107	60	90	20	120	120						20						1			140	
2A	STATION RODG. PL. 17+00 LT ℄ 10'													60	88	105	20	5							20							1		140	
3A	REPLACE EXISTING VALVE MAKAI OF 1A & 2A													86	75	105	.	20		6					19							1		50	
	TOTALS FOR CONTRACT		65					140			20			3326	562	502	808	190	160	410 422					77	62	99	45		1	11	1	2	2	10645	

* TO BE PAID ON A LUMP SUM BASIS.

NO	DATE	REVISIONS
3		REVISED QUANTITIES DUE TO DELETION OF VALVES 1 & 3
2	1-15-78	ADDED ITEM 616.2890 AND REVISED QUANTITIES FOR VALVE 14 AND 15
1	10-25-77	REVISED QUANTITIES FOR VALVES 2A & 3A

ROGER L. BUCK JR. REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT No. 3476 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

IRRIGATION SUMMARY

AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(122)16

SCALE: NONE DATE: 2-1-77

SHEET No. 16 OF 16 SHEETS

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

C095