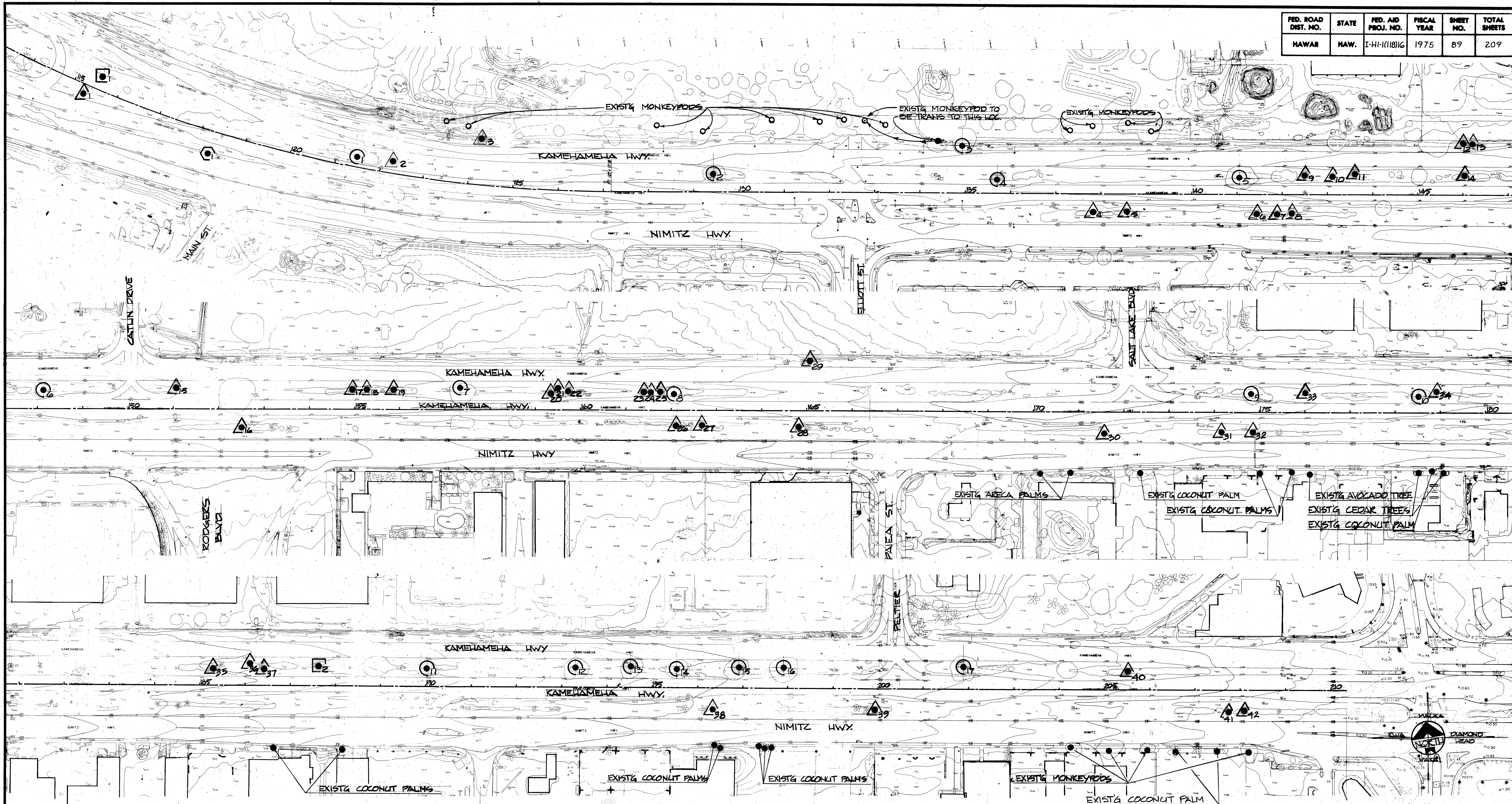


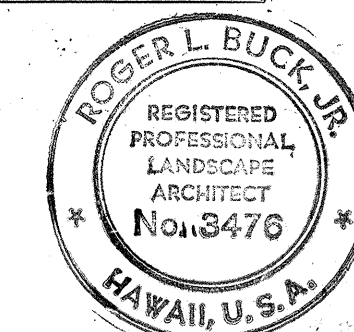
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(118)16	1975	89	209



NOTE:
 (1) TRANSPLANTS WILL BE STAKED AND LOCATIONS DETERMINED ON THE SITE BY THE ENGINEER AT THE TIME OF TRANSPLANTING.
 (2) SEE SHEET 90 & 91 FOR LOCATION OF NAVY TRANSPLANTS

KEY TO PROPOSED TRANSPLANT LOCATIONS

- PHASE I**
- ▲ COCONUT PALM (*Cocos nucifera*) TRANSPLANTED TO NAVY PROPERTY
 - MONKEYPOD (*Samanea saman*) TRANSPLANTED TO NAVY PROPERTY
 - ◻ SCREW PINE (*Pandanus odoratissimus*) TRANSPLANTED TO NAVY PROPERTY
 - ◻ FIG TREE (*Ficus lyrata*) TRANSPLANTED TO NAVY PROPERTY
 - OTHER TREES TO BE TRANSPLANTED AS DIRECTED BY ENGINEER. SEE SHEET 90.
 - EXISTING TREES TO BE SAVED
- PHASE II**



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 HIGHWAYS DIVISION

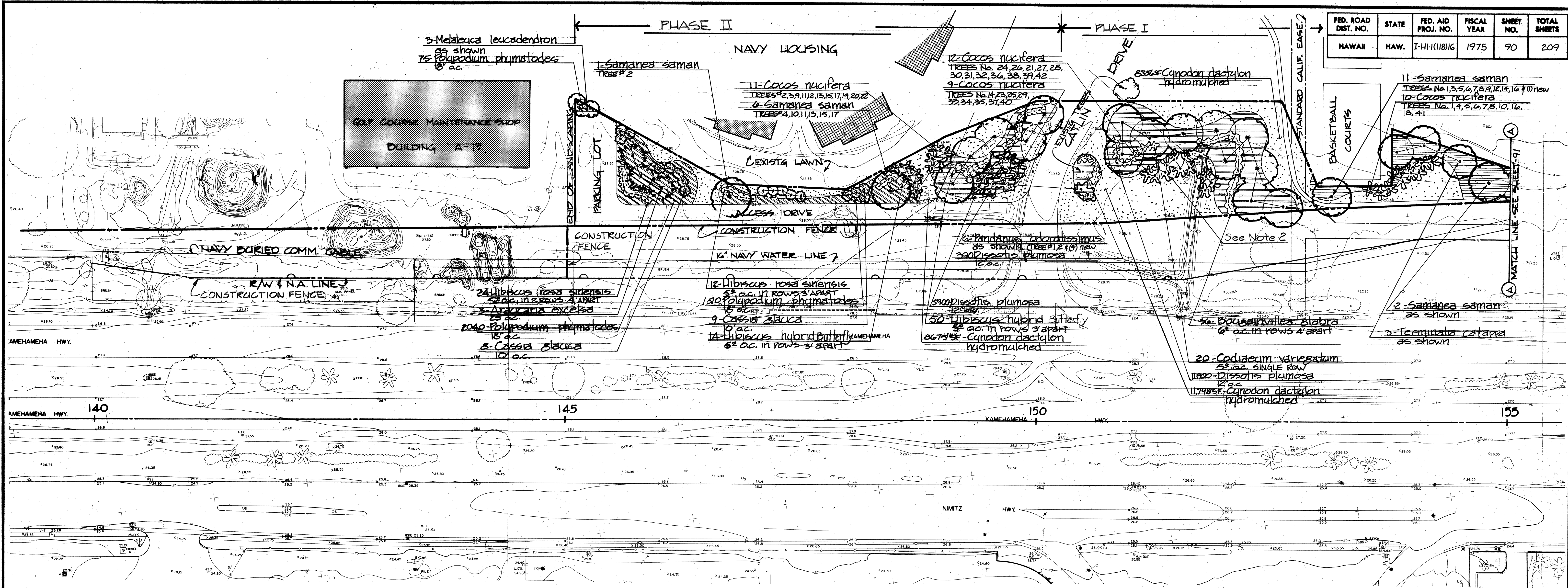
TRANSPLANT LOCATION MAP

AIRPORT INTERCHANGE
 F.A.I. PROJ. NO. I-H-1(118)16

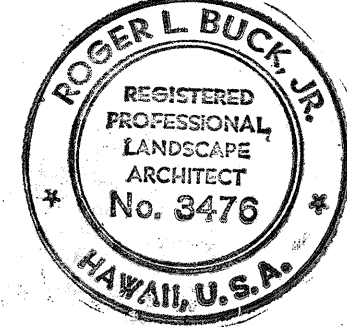
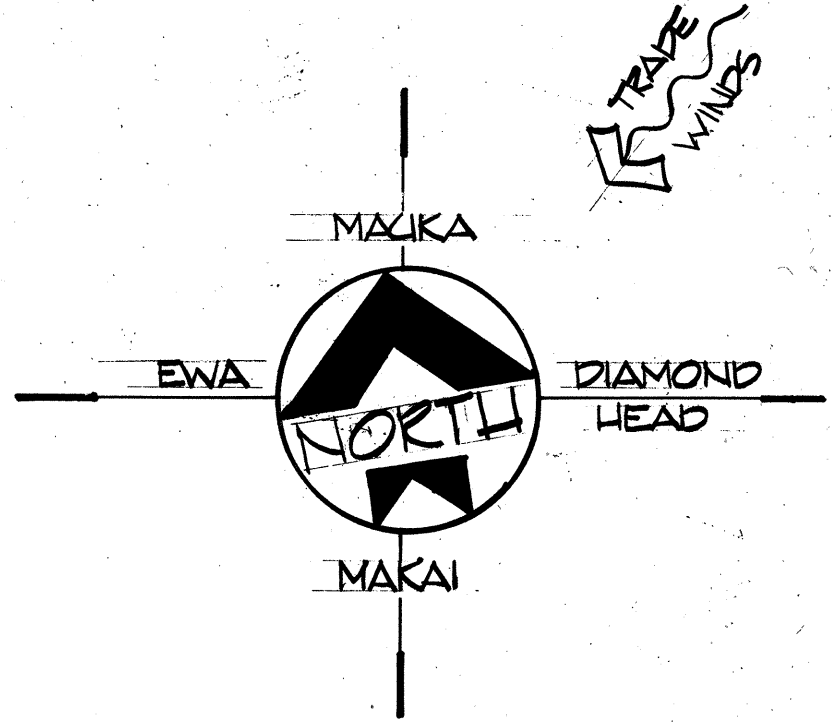
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SHEET No. 1 OF 11 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(118)16	1975	90	209



NOTE:
 1. SEE SHEET 89 FOR LOCATION OF NUMBERED TREES.
 2. COCONUT PALM TREES IN NIMITZ MAKAI SIDEWALK AREA SHALL BE TRANSPLANTED TO THIS AREA. OTHER TREES IN THIS AREA SHALL BE TRANSPLANTED TO LOCATIONS AS DIRECTED BY ENGINEER.



STATE OF HAWAII
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 HIGHWAYS DIVISION

PLANTING PLAN

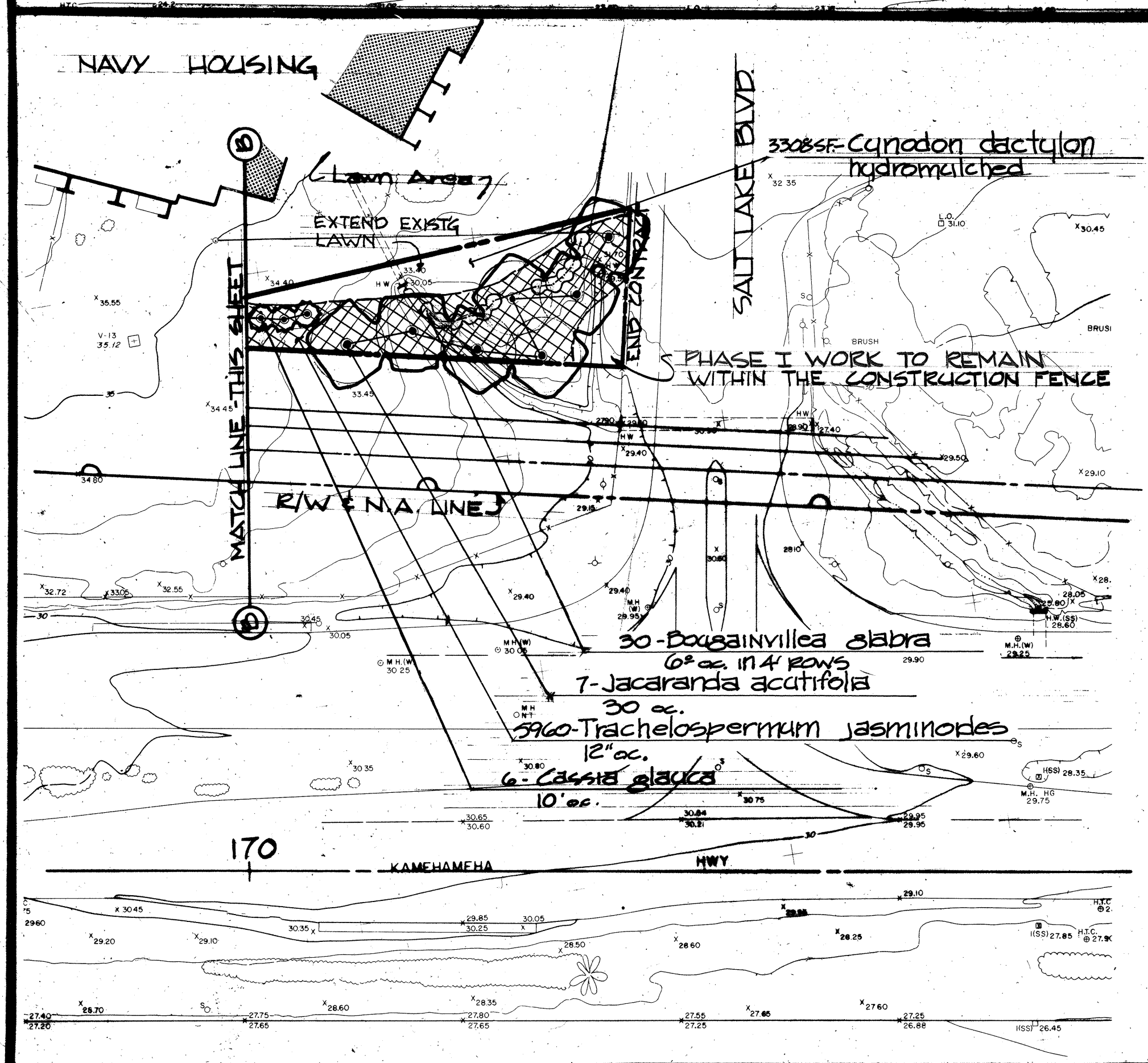
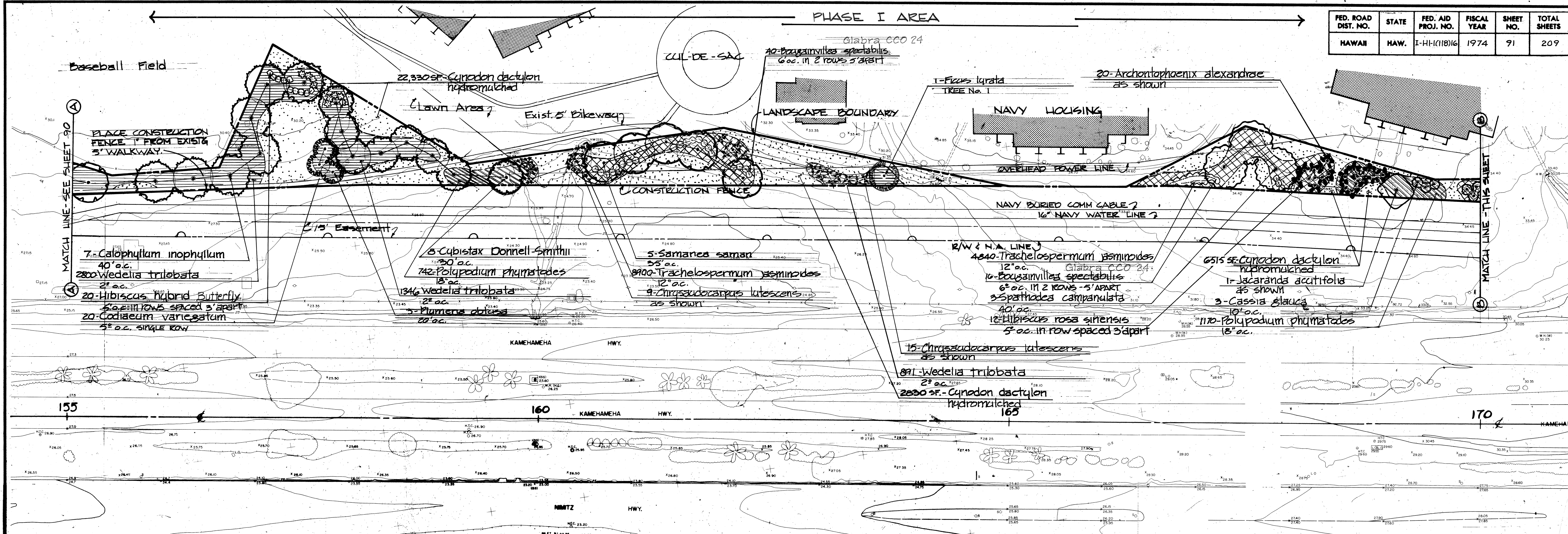
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 F.A.I. PROJ. NO. I-HI-1(118)16

SCALE: 1"=50' DATE: JUNE 15, 1974

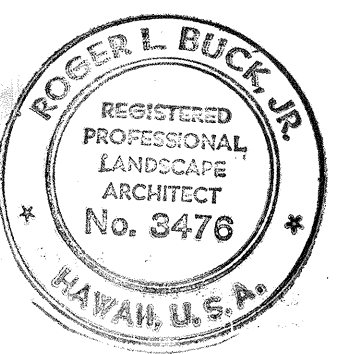
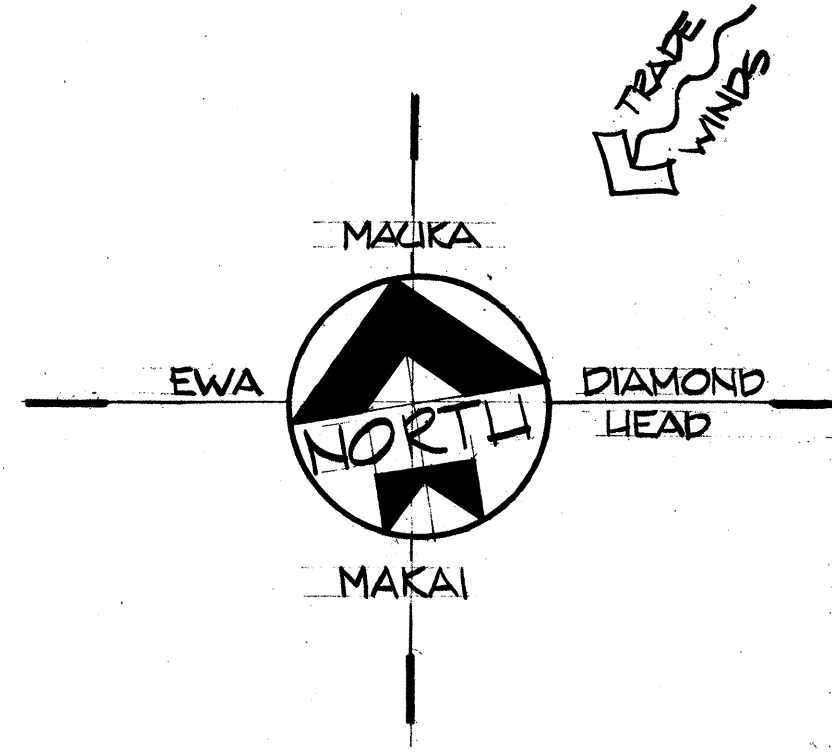
SHEET No. 2 OF 11 SHEETS

DATE	BY
DESIGNED BY	
CHECKED BY	
APPROVED BY	
NOTED BY	
REVISIONS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(118)16	1974	91	209



NOTE:
SEE SHEET 89 FOR
LOCATION OF NUMBERED TREES.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLANTING PLAN

AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(118)16

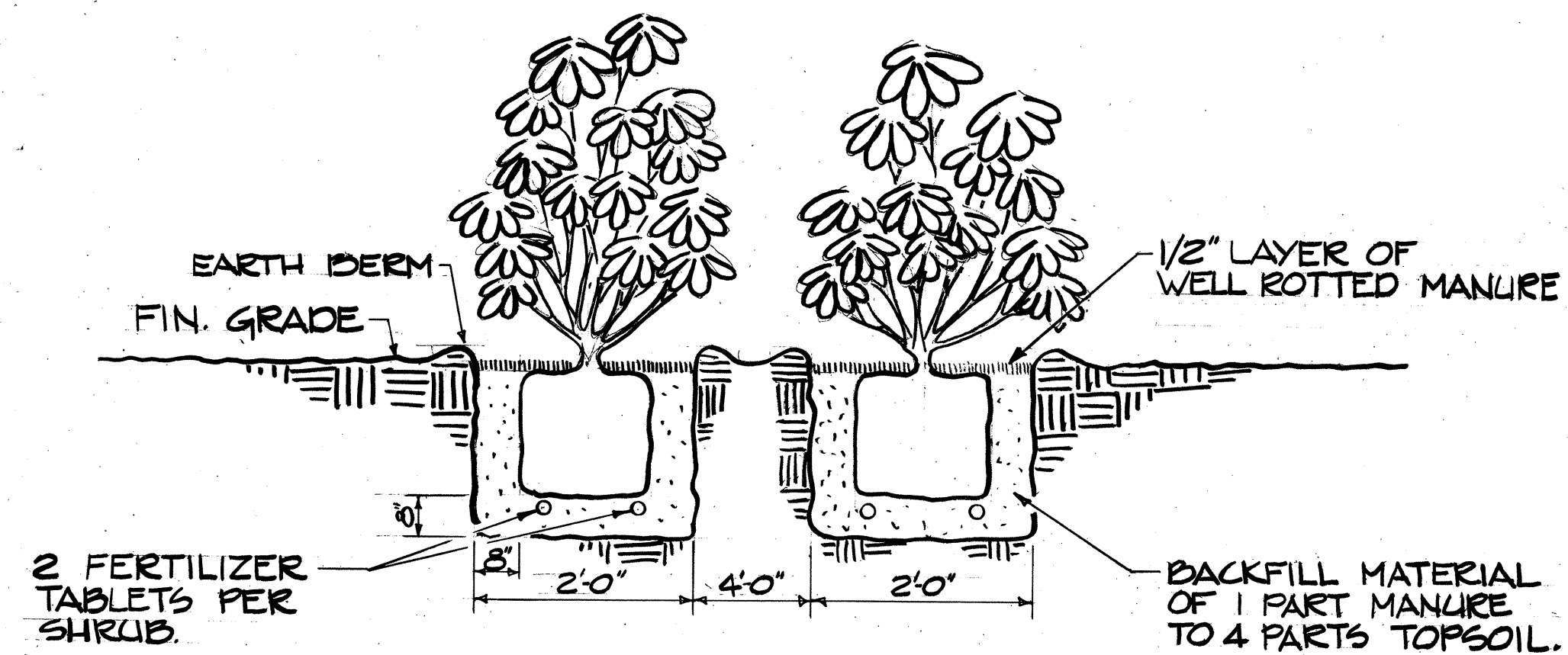
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SHEET No. 3 OF 11 SHEETS

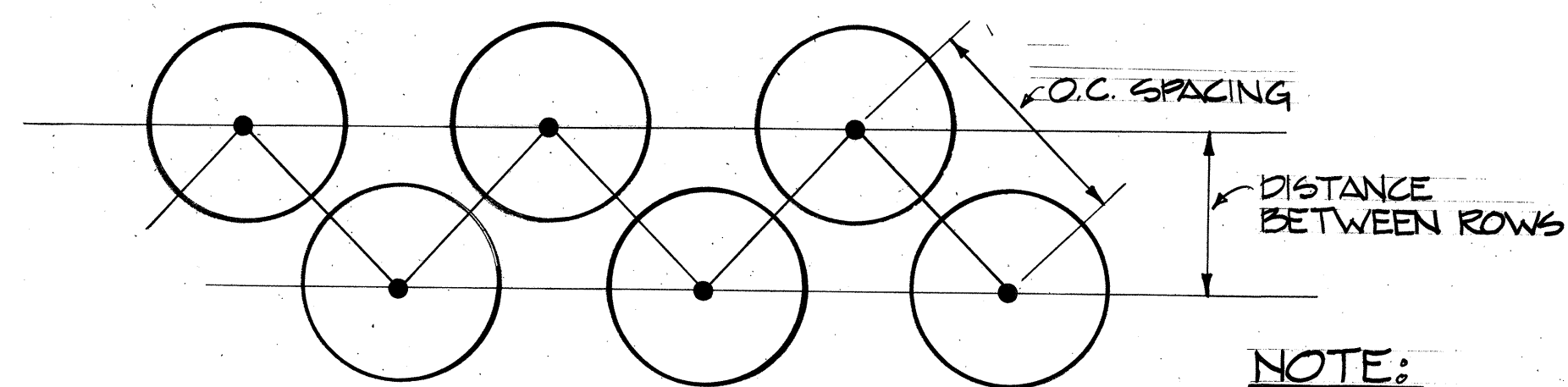
R. L. BUCK, JR.
THIS WORK WAS PREPARED BY
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REVISIONS
BY
DATE
DESCRIPTION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(118)16	1975	93	209

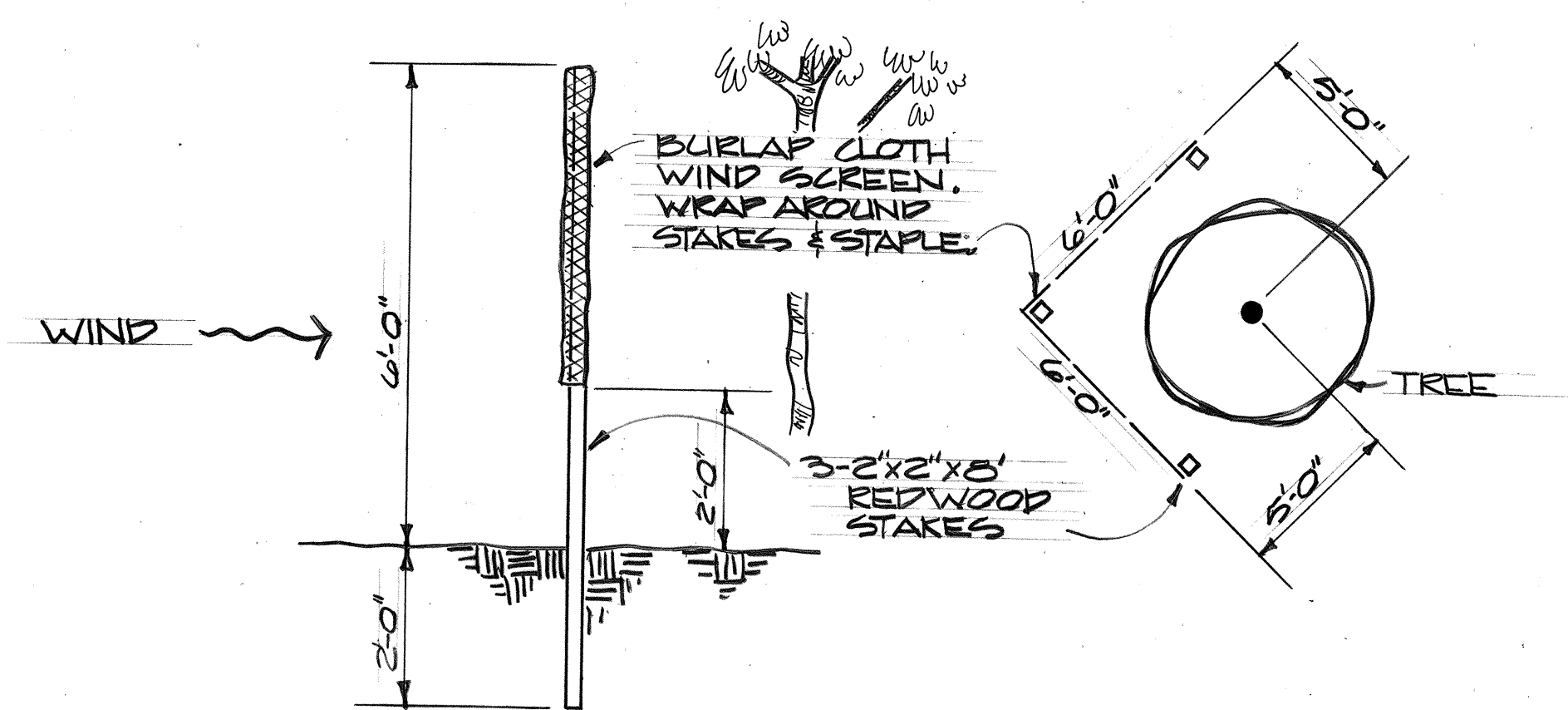


93
1
TYPICAL SHRUB PLANTING DETAIL
NO SCALE

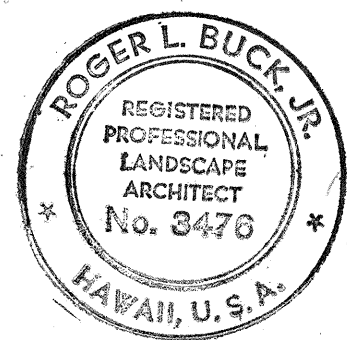


NOTE:
SEE PLANS FOR PLANTS
TO BE STAGGERED & FOR
O.C. SPACING & DISTANCE
BETWEEN ROWS

93
2
TYPICAL STAGGERED SHRUB
PLANTING DETAIL
NO SCALE



SECTION PLAN
93
4
TYPICAL WIND-SCREEN DETAIL
NO SCALE



Robert L. Buck, Jr.
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPE DETAILS

AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(118)16

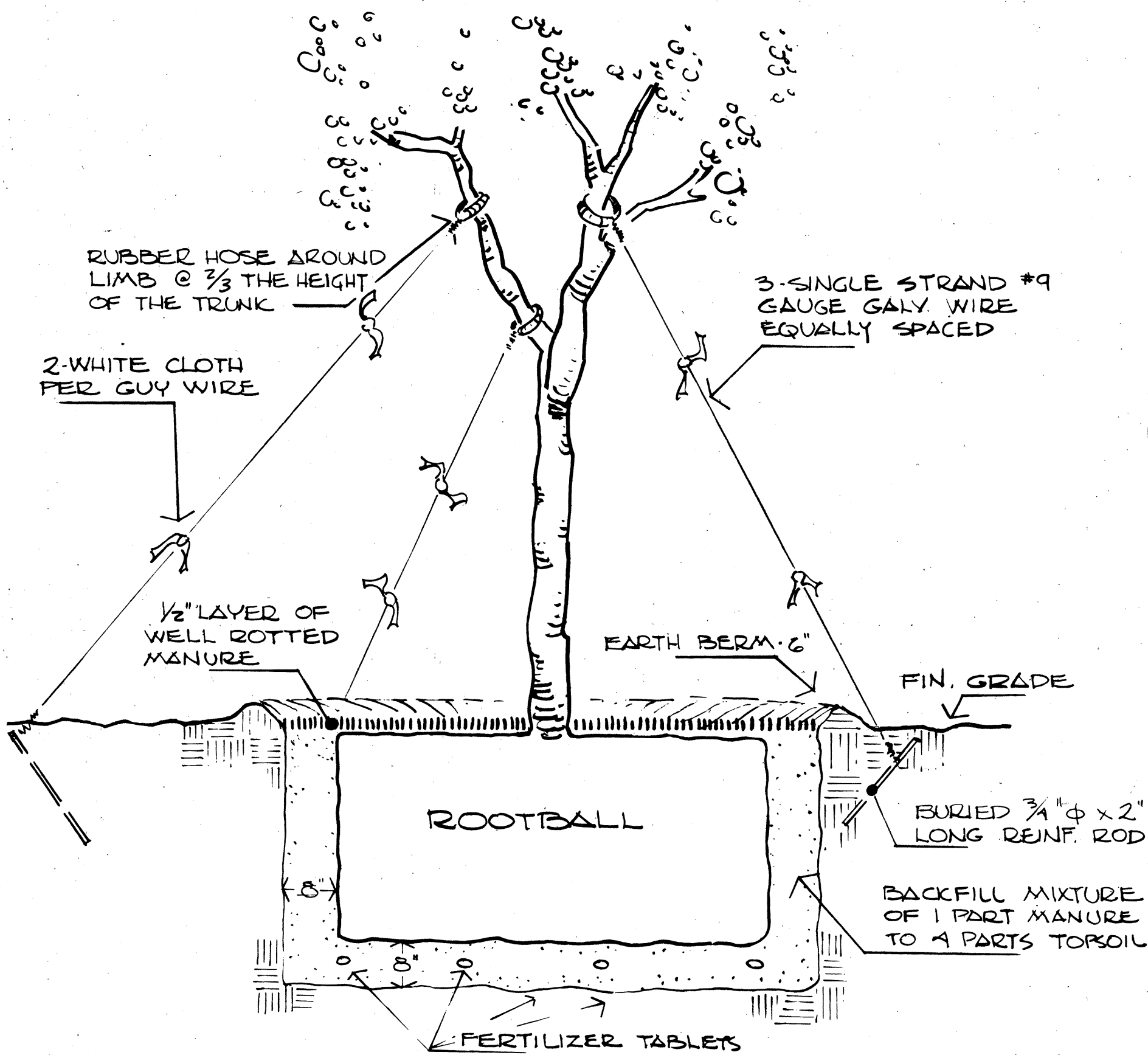
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SHEET No. 5 OF 11 SHEETS

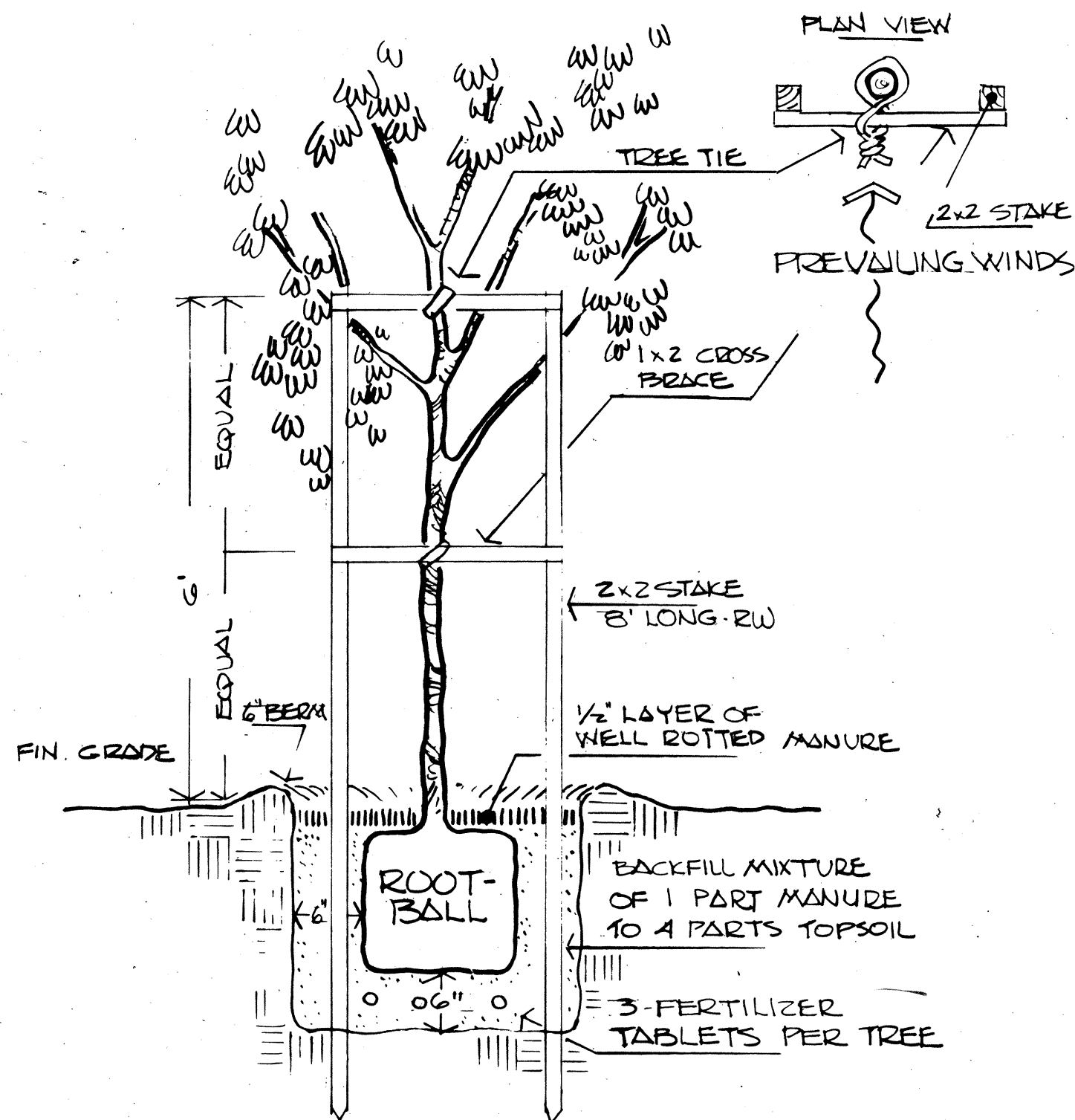
SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

PLANTING LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	QUAN.	ROOT PREP.	SIZE	REMARKS
TREES						
1	Ardisia excelsa	NORFOLK ISLAND PINE	3	25 G.C.	15 HT. 6" SP. 4" CAL	
2	Calophyllum inophyllum	KAMANI	7	25 G.C.	10 HT. 5" SP. 5" CAL	
3	Cassia glauca	KALAMONA	26	10 G.C.	6 HT. 3" SP. 1 1/2" CAL	
4	Cyrtostachys Donnell-Smithii	GOLD TREE	8	25 G.C.	10 HT. 5" SP. 4" CAL	
5	Ficus lyrata	FIDDLE-LEAF FIG	1	SPECIMEN	12 1/2 HT. x 10 1/2 SP. 15" CAL	(SIZE AFTER PRUNING)-1 TRANSPLANT
6	Jacaranda acutifolia	JACARANDA	8	25 G.C.	10 HT. 5" SP. 4" CAL	
7	Melaleuca leucadendron	PAPER BARK TREE	3	25 G.C.	10 HT. 5" SP. 4" CAL	
8	Pandanus odoratissimus	SCREW PINE	6	SPECIMEN	* 8 1/2 HT. 6" SP. 3" CAL	2 TRANSPLANTS
9	Plumeria obtusa	SINGAPORE PLUMERIA	3	25 G.C.	10 HT. 6" SP. 4" CAL	
10	Samanea saman	MONKEYPOD	25	SPECIMEN	* 20 HT. x 15 SP. 12" CAL	(SIZE AFTER PRUNING) 17 TRANSPLANTS
11	Spathodea campanulata	AFRICAN TULIP	3	25 G.C.	12 HT. 6" SP. 3" CAL	
12	Terminalia catappa	FALSE KAMANI	3	25 G.C.	10 HT. 5" SP. 3" CAL	
PALMS						
13	Archontophoenix alexandrae	ALEXANDRA PALM	20	25 G.C.	12 1/2 HT.	
14	Chrysalidocarpus lutescens	ARECA PALM	24	25 G.C.	10 1/2 HT. 3" CAL	(MULTI-STEM)
15	Cocos nucifera	COCONUT PALM	42	SPECIMEN	5'-40' TRUNK HT.	42 TRANSPLANTS
SHRUBS						
16	Bougainvillea spectabilis latifolia	BOUGAINVILLEA (RED BRICK)	56	3 G.C.	2 HT. 2" SP. 5" OC	
16	Bougainvillea glabra sanderiana	BOUGAINVILLEA (CRIMSON LAKE)	66	3 G.C.	3 HT. 2" SP. 5" OC	
17	Codiaeum variegatum revivifolium	CROTON	40	3 G.C.	3 HT. 2" SP. 5" OC	
18	Hibiscus rosa sinensis	HIBISCUS (RED VARIETY)	48	3 G.C.	3 HT. 2" SP. 5" OC	
18	Hibiscus hybrid 'Butterfly'	HIBISCUS (BUTTERFLY)	84	3 G.C.	3 HT. 2" SP. 5" OC	
GROUND COVERS						
19	Dioscorea alata	DIOSCOREA	230	FLATS	8" RUNNERS - 18" OC	
20	Polypodium phymatodes	LALAE FERN	5,537	1 G.C.	1 HT. CLUMPING	
21	Trachelospermum jasminoides	STAR JASMINE	19,700	1 Q.T.	12" RUNNERS - 12" OC	
22	Wedelia trilobata	WEDELIA	65	FLATS	12"-18" RUNNERS - 2" OC	
GRASSES						
23	Cynodon dactylon 'Tifton'	TIFWAY HYBRID BERMUDA	64,585 SF	STOLONS	4 BUSHEL/1000 SF	HYDROMULCHED
TREES TO BE TRANSPLANTED AS DIRECTED BY ENGINEER. SEE NOTE 2, SHT. 90						
SEE SHEET NO. 89						
Cocos nucifera COCONUT PALM 13 SPECIMEN 12'-30' TRUNK HT.						
Cupressaceae CEDAR TREE 2 " 12' HT. 6" SP.						
Persea americana AVOCADO TREE 1 " 10' HT. 6" SP.						
Samanea saman MONKEYPOD 4 " 20' HT. 10' SP. 12" CAL (SIZE AFTER PRUNING)						
Chrysalidocarpus lutescens ARECA PALM 2 " 10'-15' TRUNK HT.						
TREES TO BE TRANSPLANTED IN H-I RIGHT OF WAY SEE SHEET NO. 89						
Samanea saman MONKEYPOD 1 SPECIMEN 20' HT. 10' SP. 12" CAL (SIZE AFTER PRUNING)						



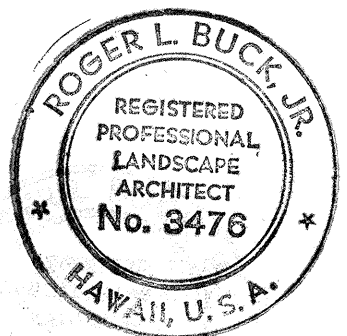
94
1 STAKING / PLANTING DETAIL (TYPICAL)
25 GAL. CONTAINER TREES



94
2 STAKING / PLANTING DETAIL (TYPICAL)
10 GAL. CONTAINER TREES

SEE SHEET 89 FOR
LOCATION OF THESE
TRANSPLANTS.

*NOTE:
SIZE REQUIRED FOR
NEW PLANTS, SEE
SPECIFICATIONS, PLANTING
TREES.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPE DETAILS

AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(118)16

SCALE: AS SHOWN DATE: JUNE 15, 1974

SHEET No. 6 OF 11 SHEETS

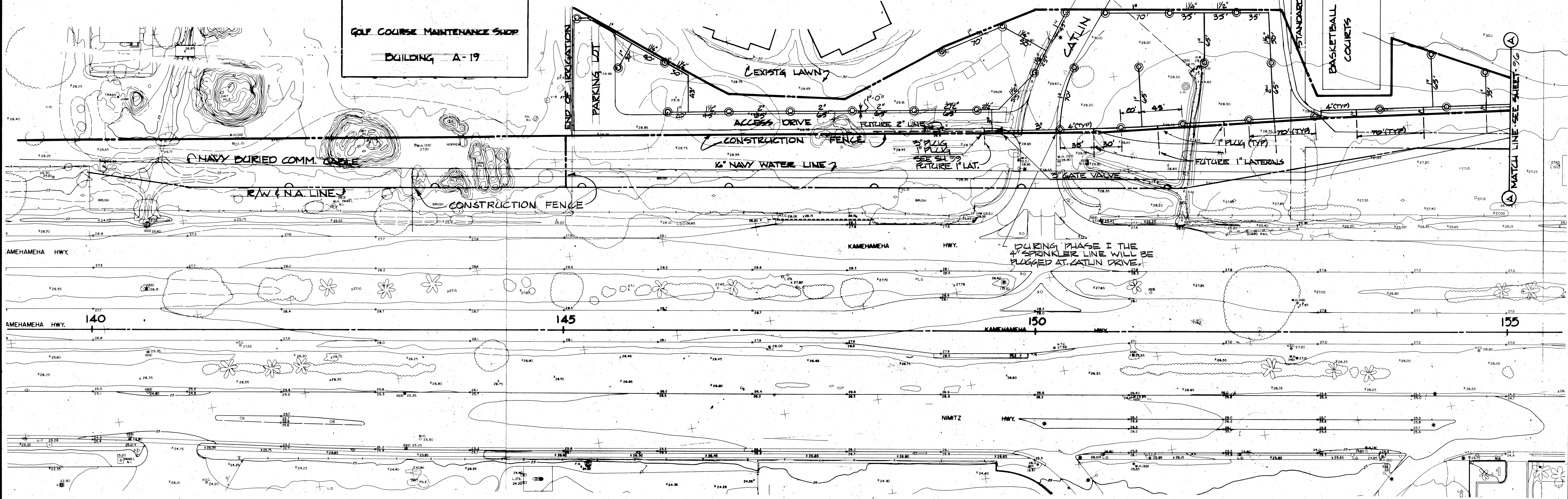
PHASE II
NAVY HOUSING

PHASE I
DRIVE

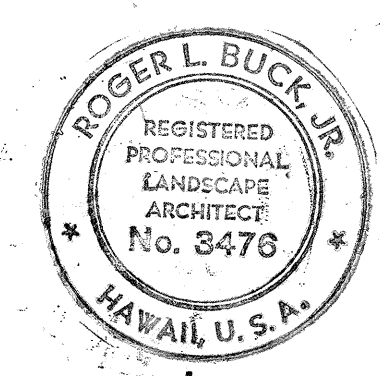
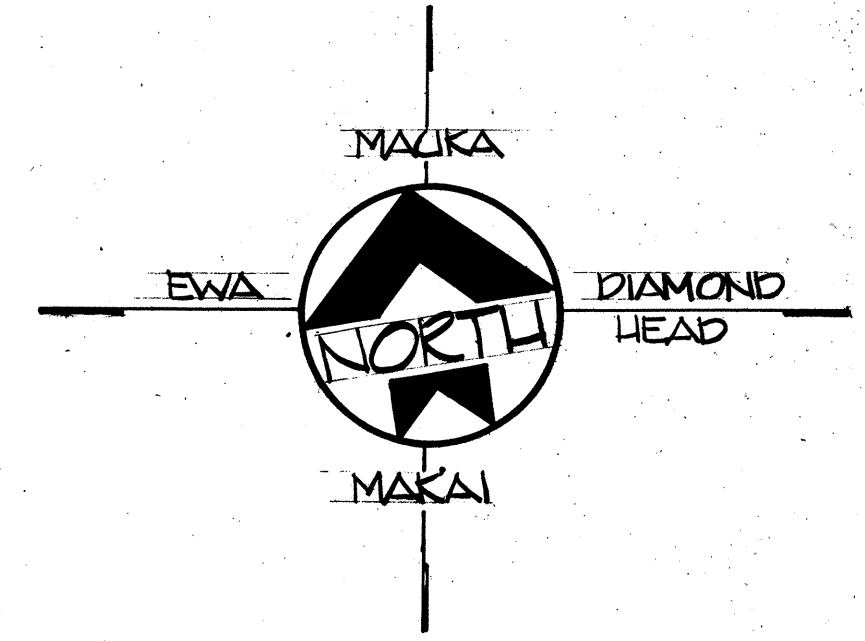
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(118)16	1975	95	209

GOLF COURSE MAINTENANCE SHOP
BUILDING A-19

BASKETBALL COURTS



DESIGNED BY
CHECKED BY
APPROVED BY
DATE



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER PLAN

AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(118)16

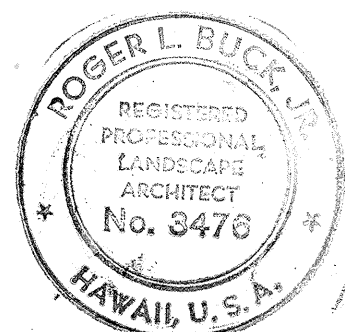
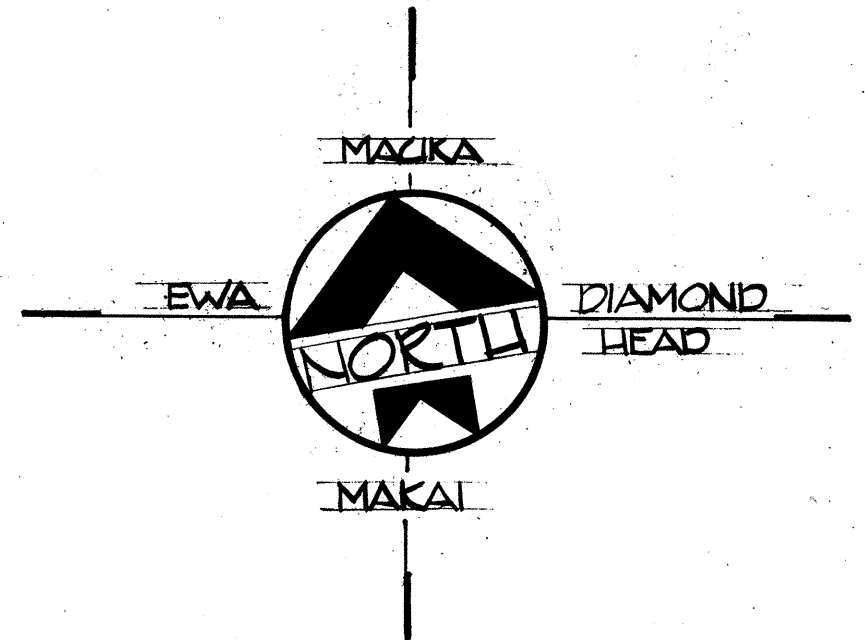
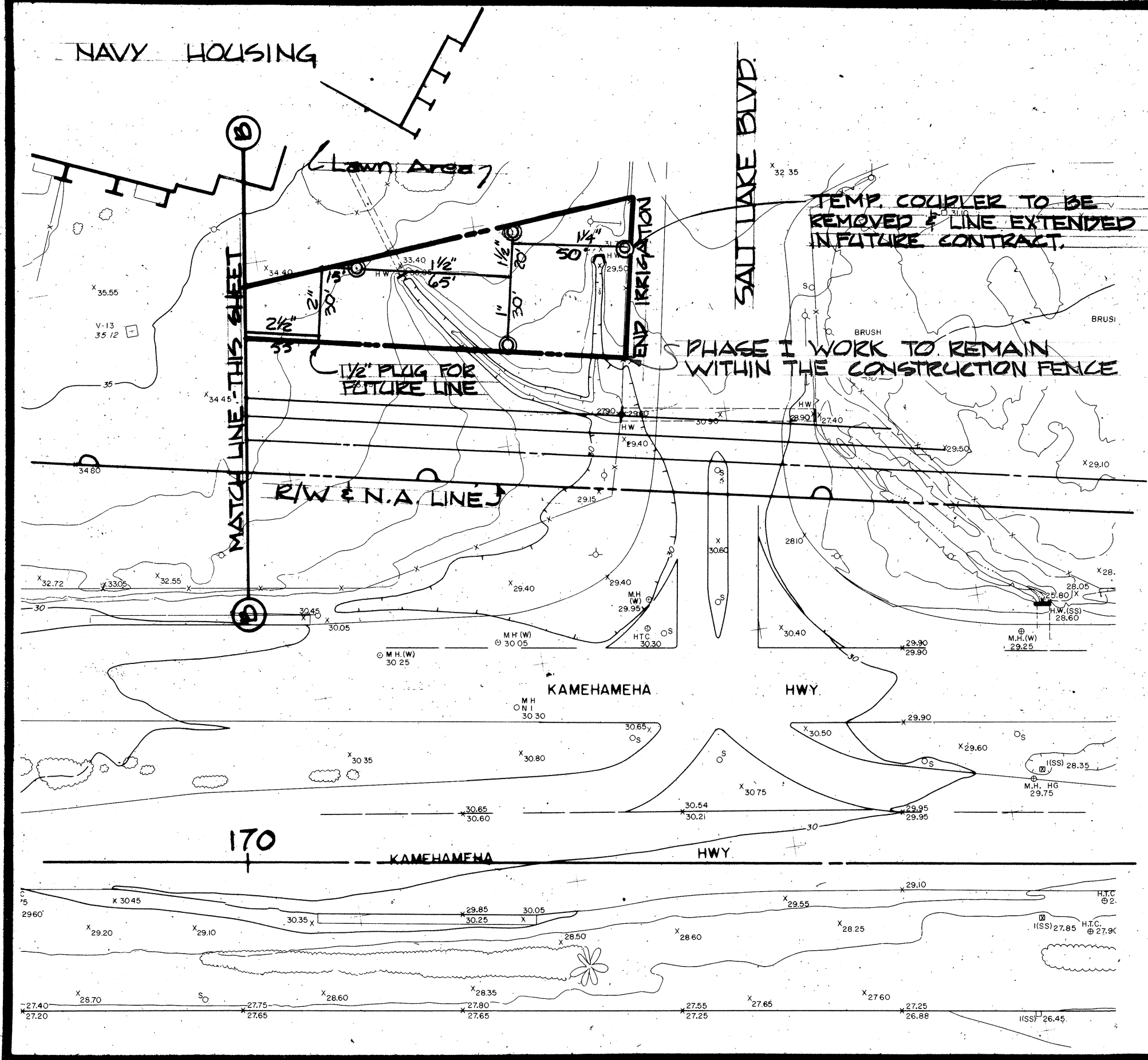
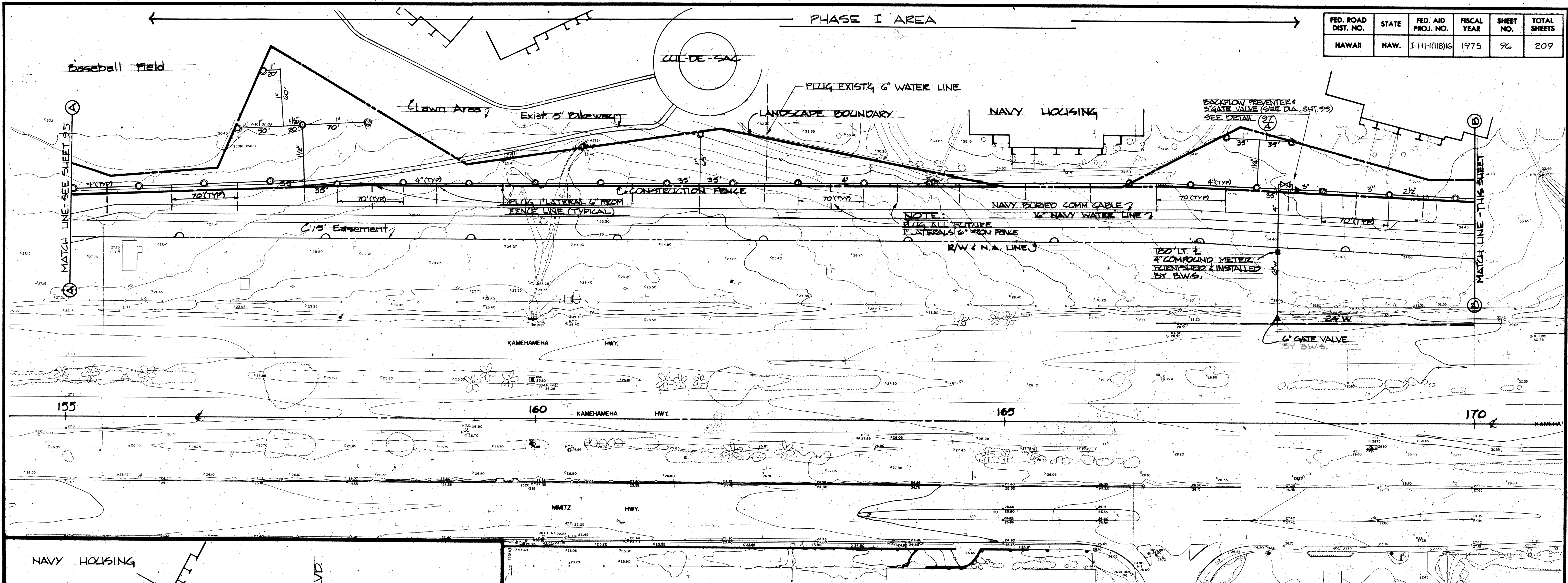
SCALE: 1" = 50' DATE: JUNE 15, 1974

SHEET No. 7 OF 11 SHEETS

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PHASE I AREA

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(18)16	1975	96	209



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

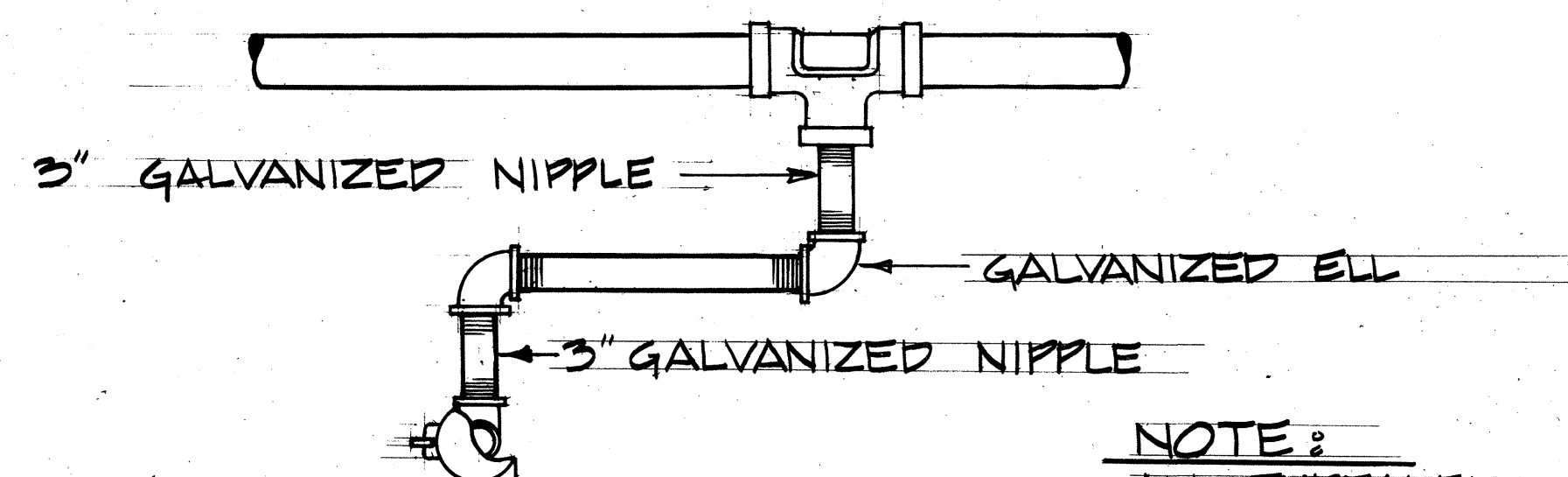
SPRINKLER PLAN

AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(18)16

SCALE: 1" = 50' DATE: JUNE 15, 1974

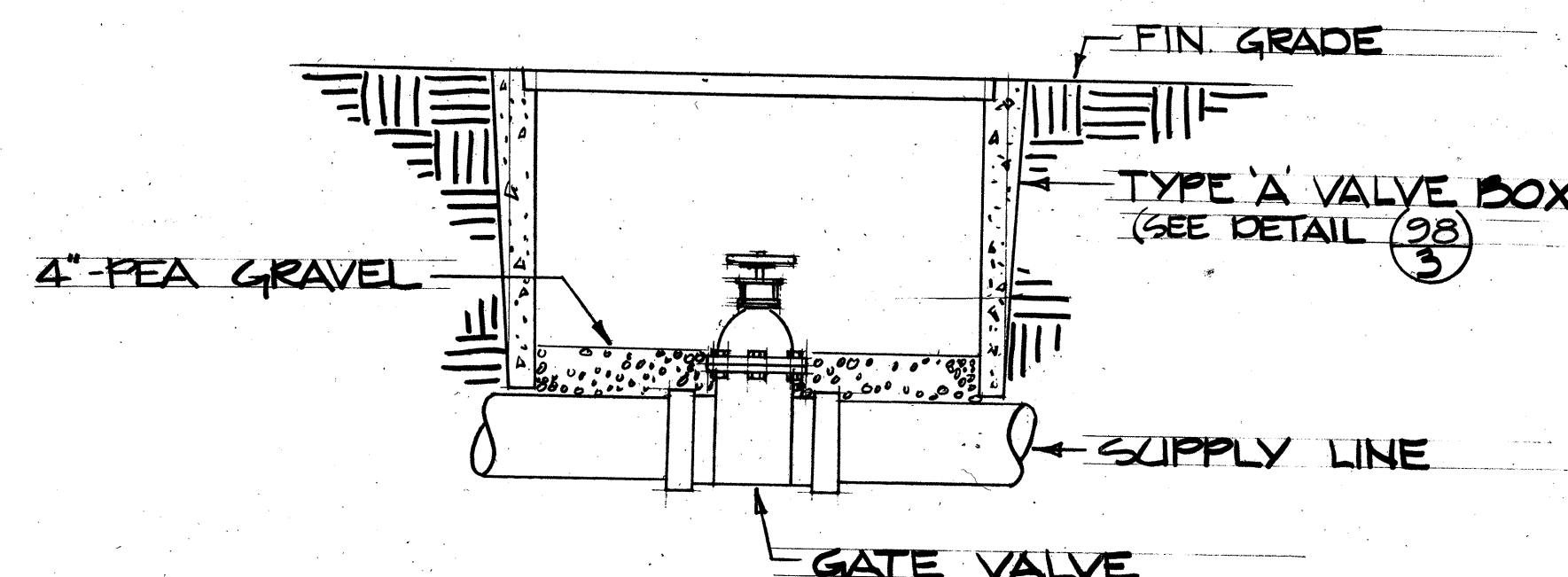
SHEET No. 8 OF 11 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(118)16	1975	97	209



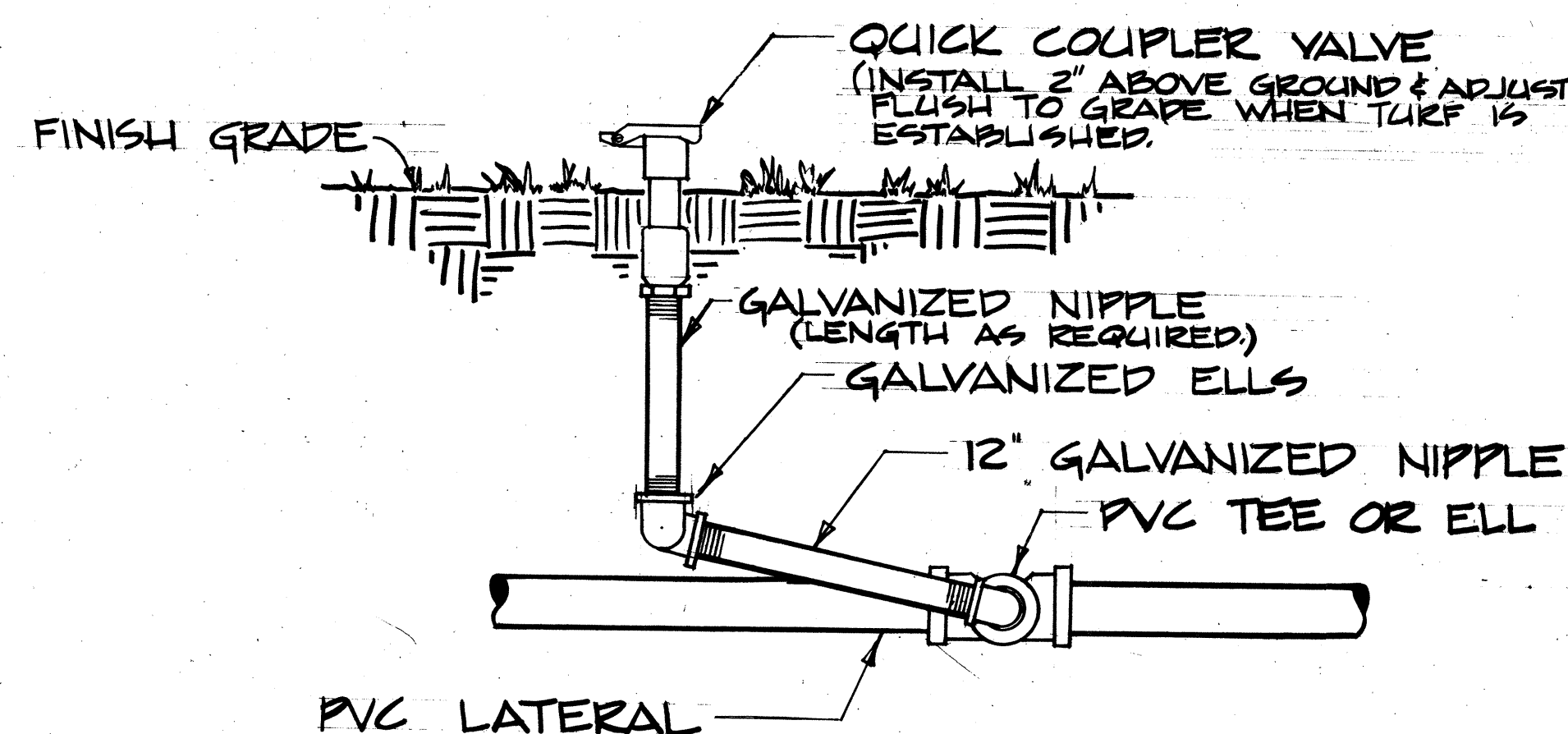
TOP VIEW

NOTE:
ALL THREADED CONNECTIONS
TO BE COATED WITH
APPROVED COMPOUND



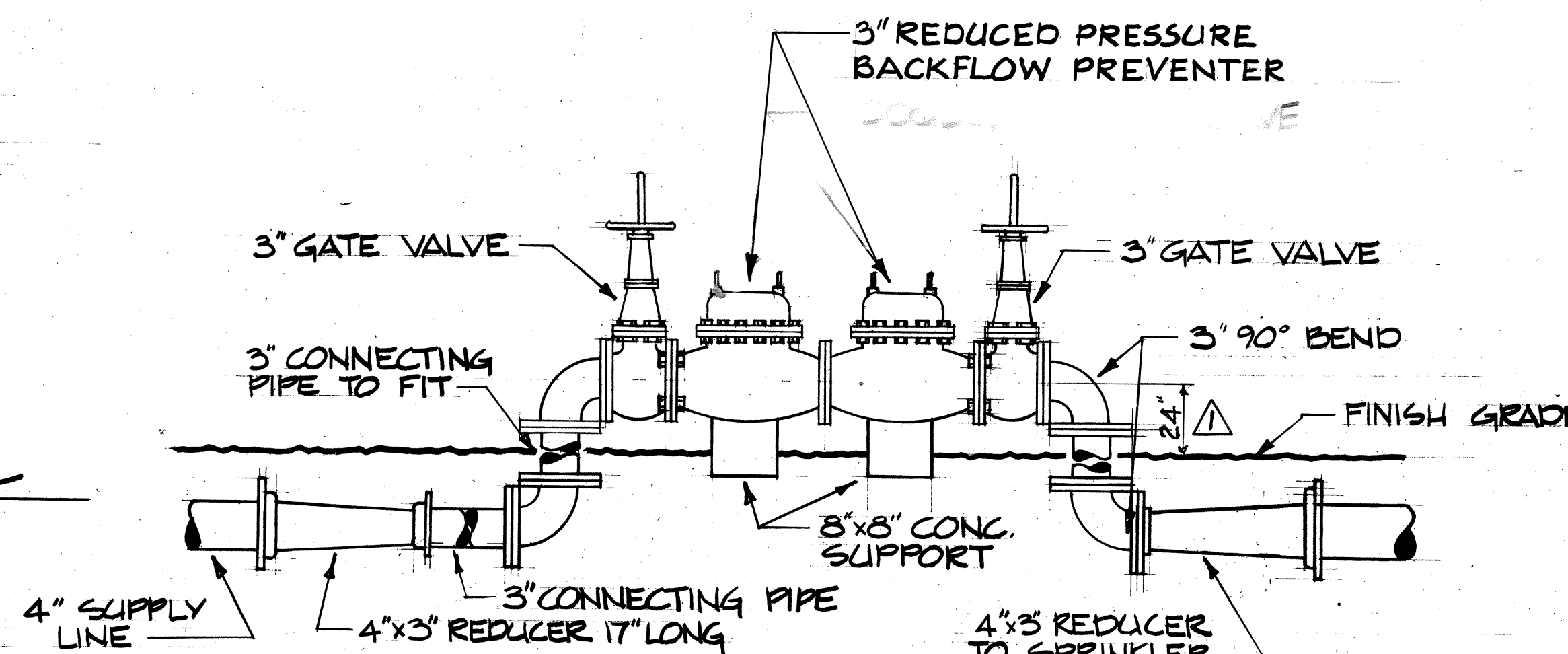
97
3 TYPICAL GATE VALVE ASS.
NO SCALE

No.	Date	Revision
1	2-26-75	Added Dimension to Backflow Preventer Unit Detail.

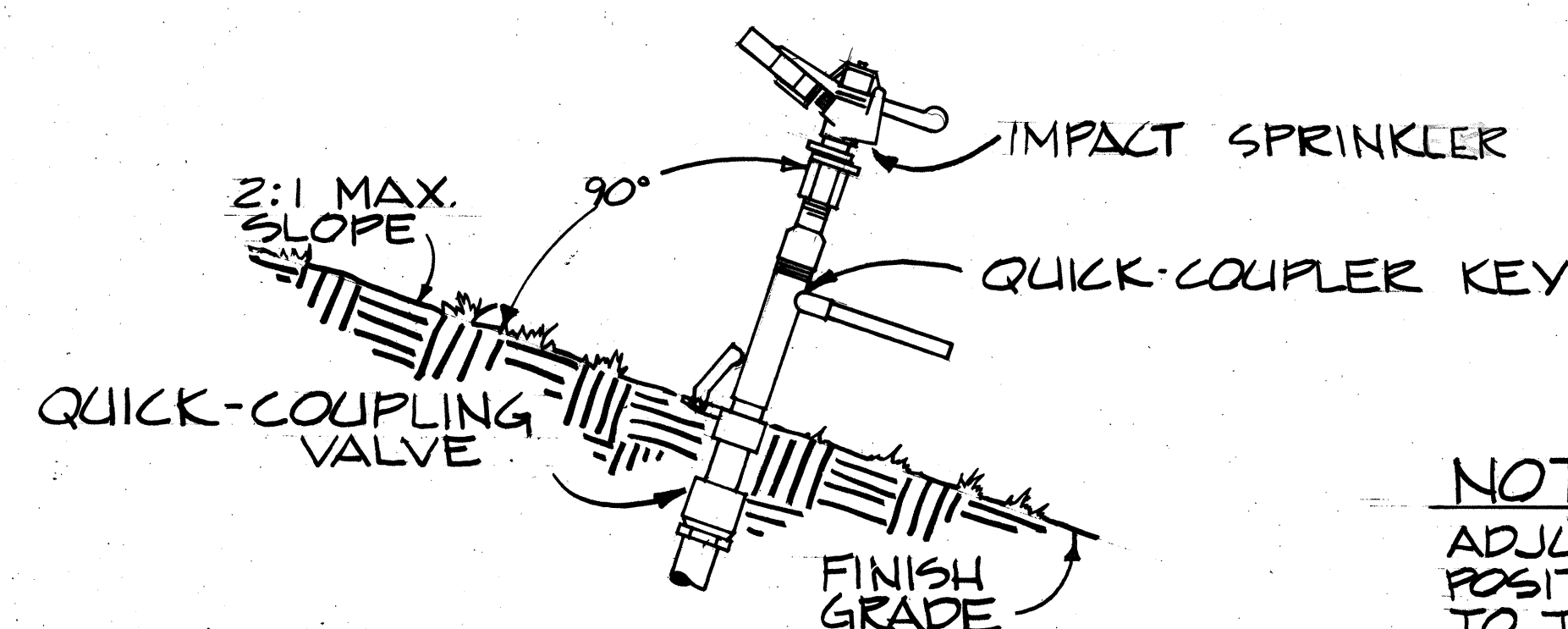


SIDE VIEW

97
1 QUICK COUPLING VALVE DETAIL
SWING JOINT DETAIL NO SCALE



97
4 3" BACKFLOW PREVENTER UNIT
NO SCALE



97
2 SLOPE DETAIL
NO SCALE

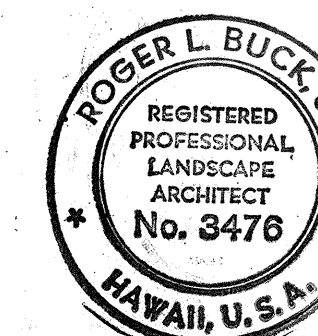
NOTE:
ADJUST SPRINKLER
POSITION SO IT IS 90°
TO THE PLANE OF
SLOPE.

FOR CROSS CONNECTION CONTROL
APPROVED: *[Signature]* 2/26/75
BOARD OF WATER SUPPLY

NOTES:
1) BACKFLOW PREVENTER SHOWN FOR THE PURPOSE OF ILLUSTRATION ONLY. DETAILS OF ACTUAL UNIT SELECTED MAY VARY FROM THAT SHOWN.
2) REDUCED PRESSURE BACKFLOW PREVENTOR SHALL BE LIMITED TO THOSE APPROVED BY THE FOUNDATION FOR CROSS CONNECTION CONTROL RESEARCH, UNIVERSITY OF SOUTHERN CALIFORNIA.

GENERAL SPRINKLER SYSTEM NOTES

1. SPRINKLERS SHALL BE SUITABLE FOR 35 PSI, 7/32 KEYHOLE NOZZLE, 50-FT. RADIUS AND 7.24 GPM CAPACITY. A MAXIMUM OF 16 SPRINKLERS SHALL BE USED AT ONE TIME.
2. VALVES SHALL BE QUICK COUPLING TYPE WITH METAL LOCK CAP.
3. KEY SHALL HAVE 3/4" FEMALE TOP PIPE THREAD.
4. BACK FLOW PREVENTER SHALL BE 3" WITH 2 GATE VALVES
5. ALL GATE VALVES ON 3" FEEDER LINES SHALL BE INSTALLED IN CONCRETE VALVE BOXES TYPE 'A' SEE DETAIL 97/3
6. 3" & SMALLER WATER LINES SHALL HAVE A MINIMUM COVER OF 12 INCHES.
7. CONTRACTOR TO PROVIDE 16 SPRINKLER ASSEMBLIES.
8. BACKFLOW PREVENTER SHALL BE MADE THE HIGHEST POINT OF THE SYSTEM.
9. SPRINKLER HEADS SHALL BE ON A SCHEDULE OF: FULL - 1 hr 30 min. PART - 50 min PER DAY OR AS REQUIRED BY CONDITIONS.



[Signature]
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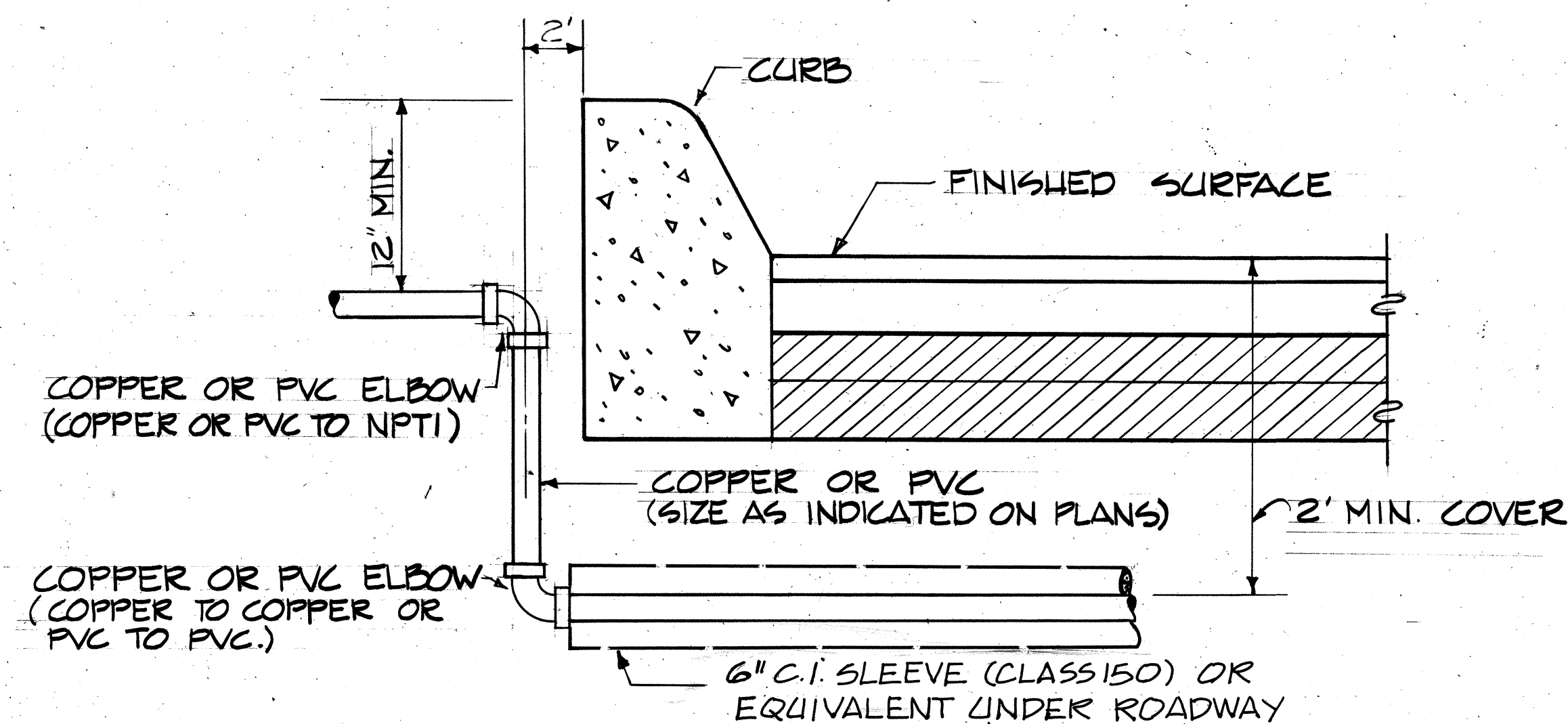
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER DETAILS

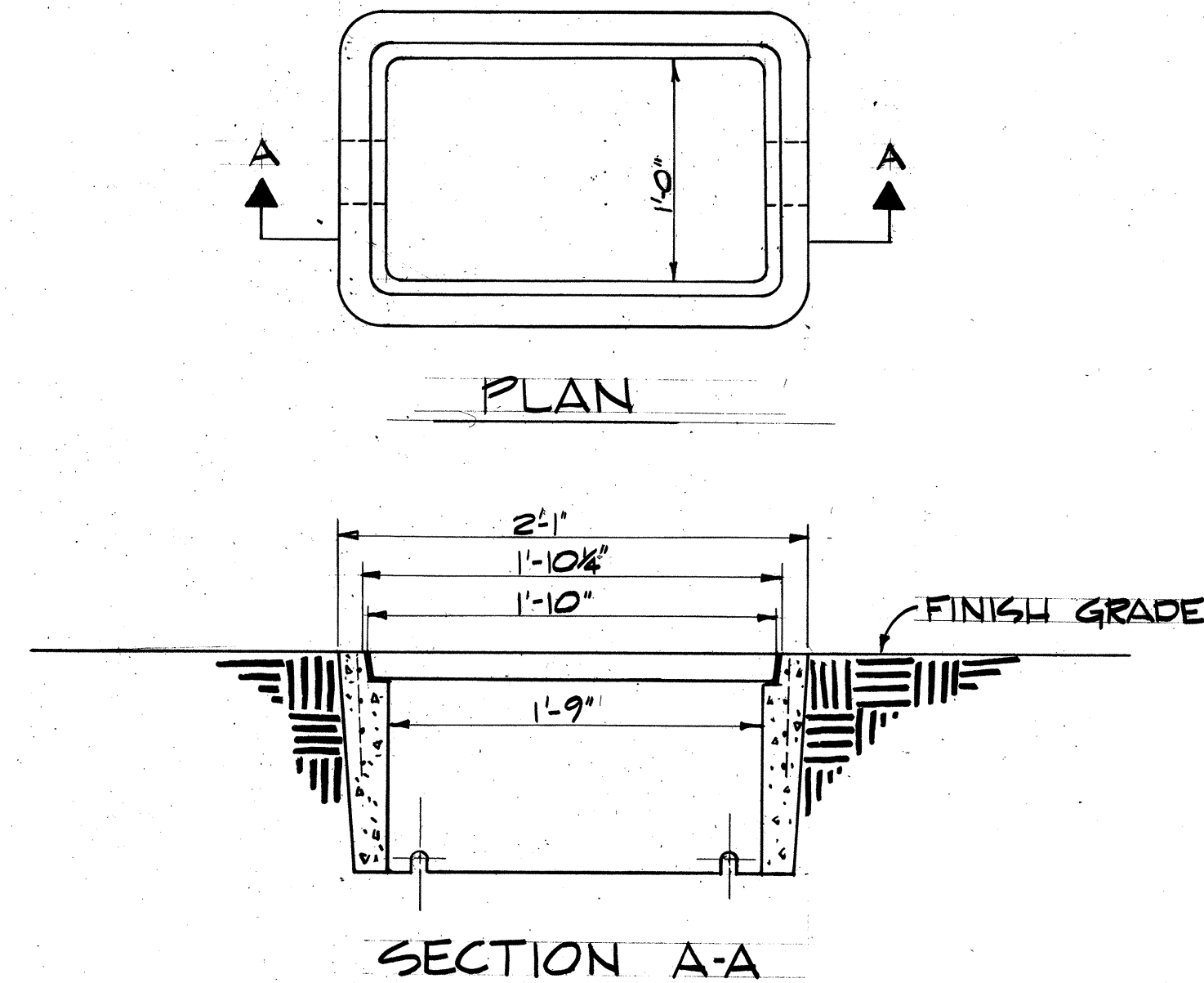
AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(118)16

SCALE: AS SHOWN DATE: JUNE 15, 1974

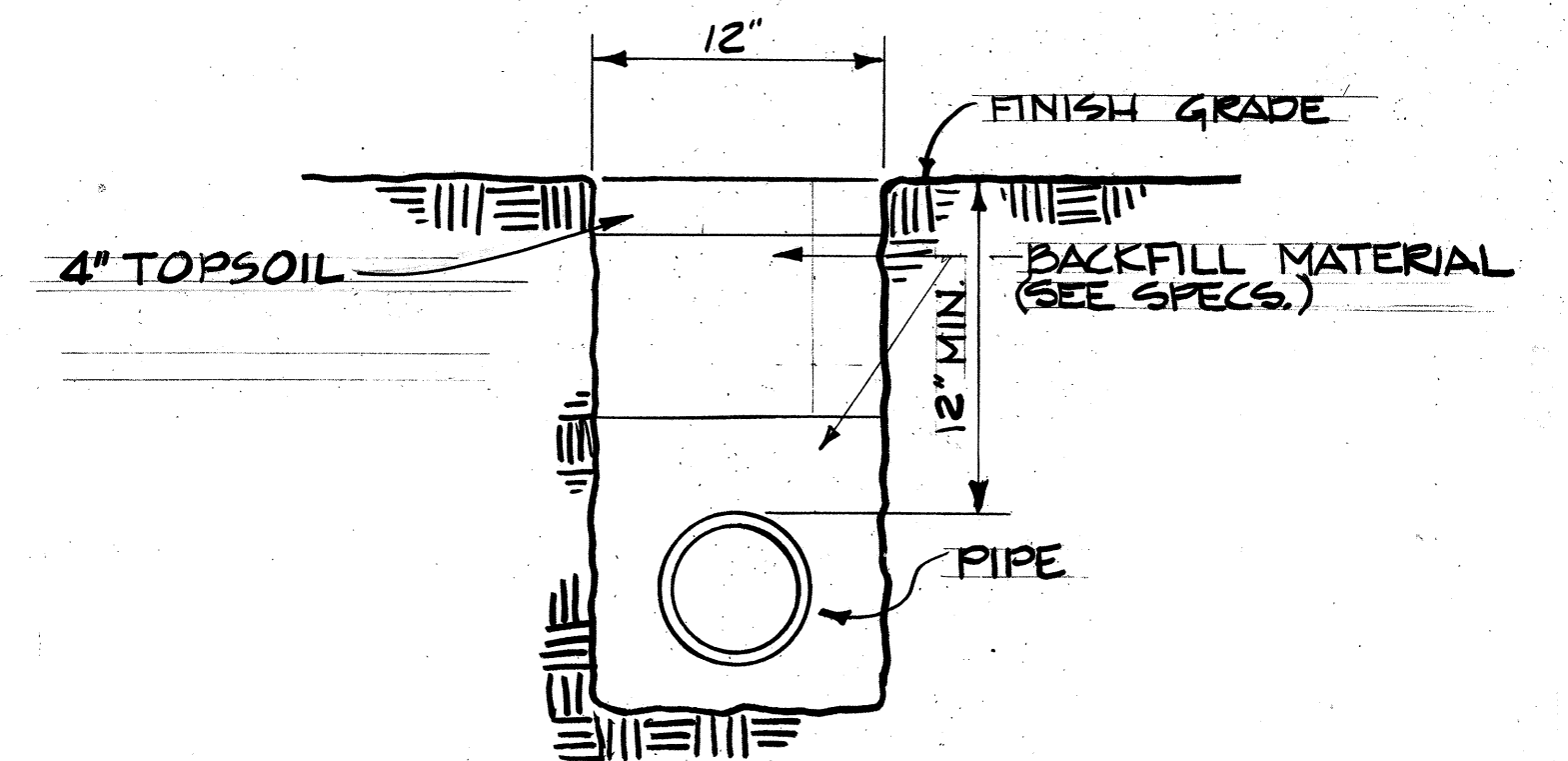
SHEET No. 9 OF 11 SHEETS



98
1
TYPICAL ROADWAY CROSSING DETAIL
NO SCALE



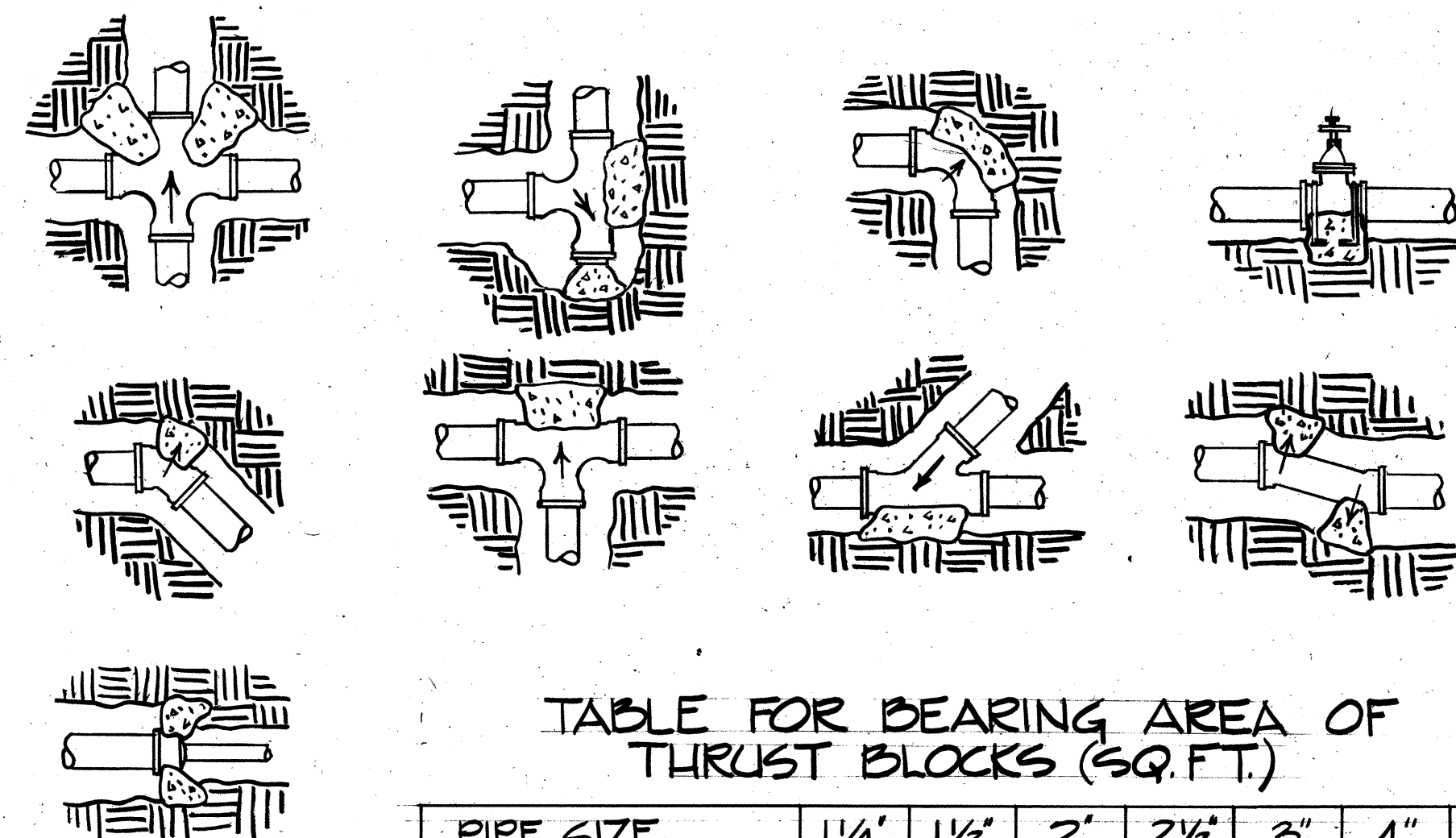
98
3
TYPE 'A' VALVE BOX
NO SCALE



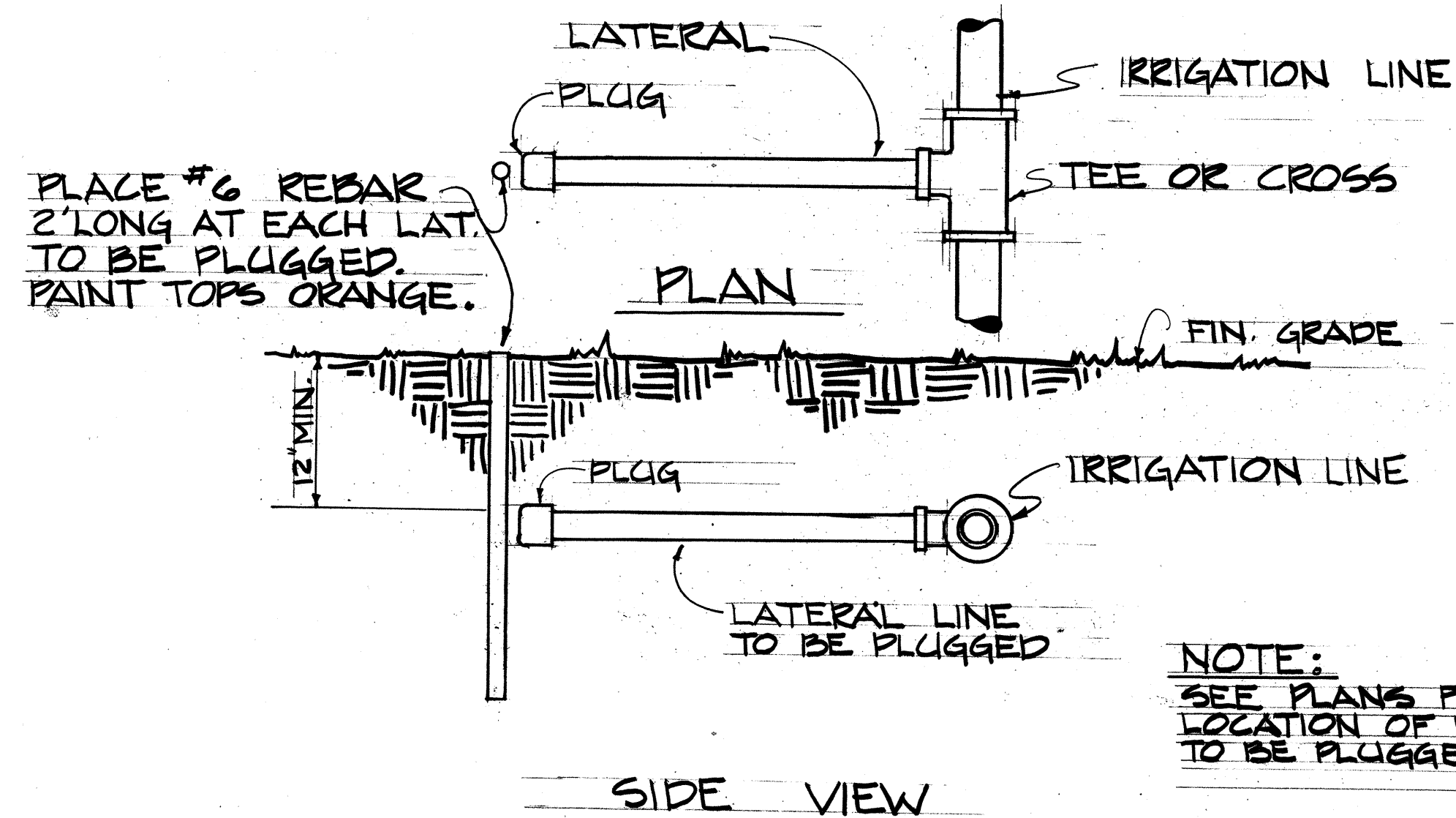
98
5
TYPICAL PIPE TRENCH DETAIL
NO SCALE

NOTE:

1. TYPE 'A' VALVE BOX IS SIMILAR TO A HONOLULU BOARD OF WATER SUPPLY TYPE 'X' METER BOX. INSTEAD OF THE WORDS 'BOARD OF WATER SUPPLY' AND 'WATER METER' ON THE CAST IRON COVERS - IMPRINT THE WORDS 'SPRINKLER VALVE' ON THE COVER.

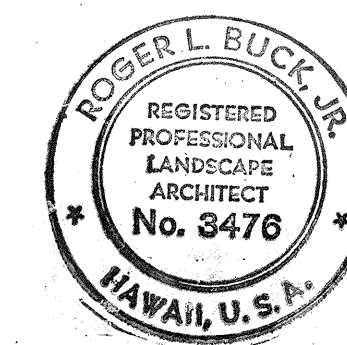


98
2
TYPICAL THRUST BLOCK DETAILS
NO SCALE



98
4
LATERAL PLUG LOCATION DETAIL
NO SCALE

NOTE:
SEE PLANS FOR
LOCATION OF LATERALS
TO BE PLUGGED.



STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
SPRINKLER DETAILS	
AIRPORT INTERCHANGE F.A.I. PROJ. NO. I-HI-1(118)16	
SCALE: AS SHOWN	DATE: JUNE 15, 1974
SHEET No. 10 OF 11 SHEETS	

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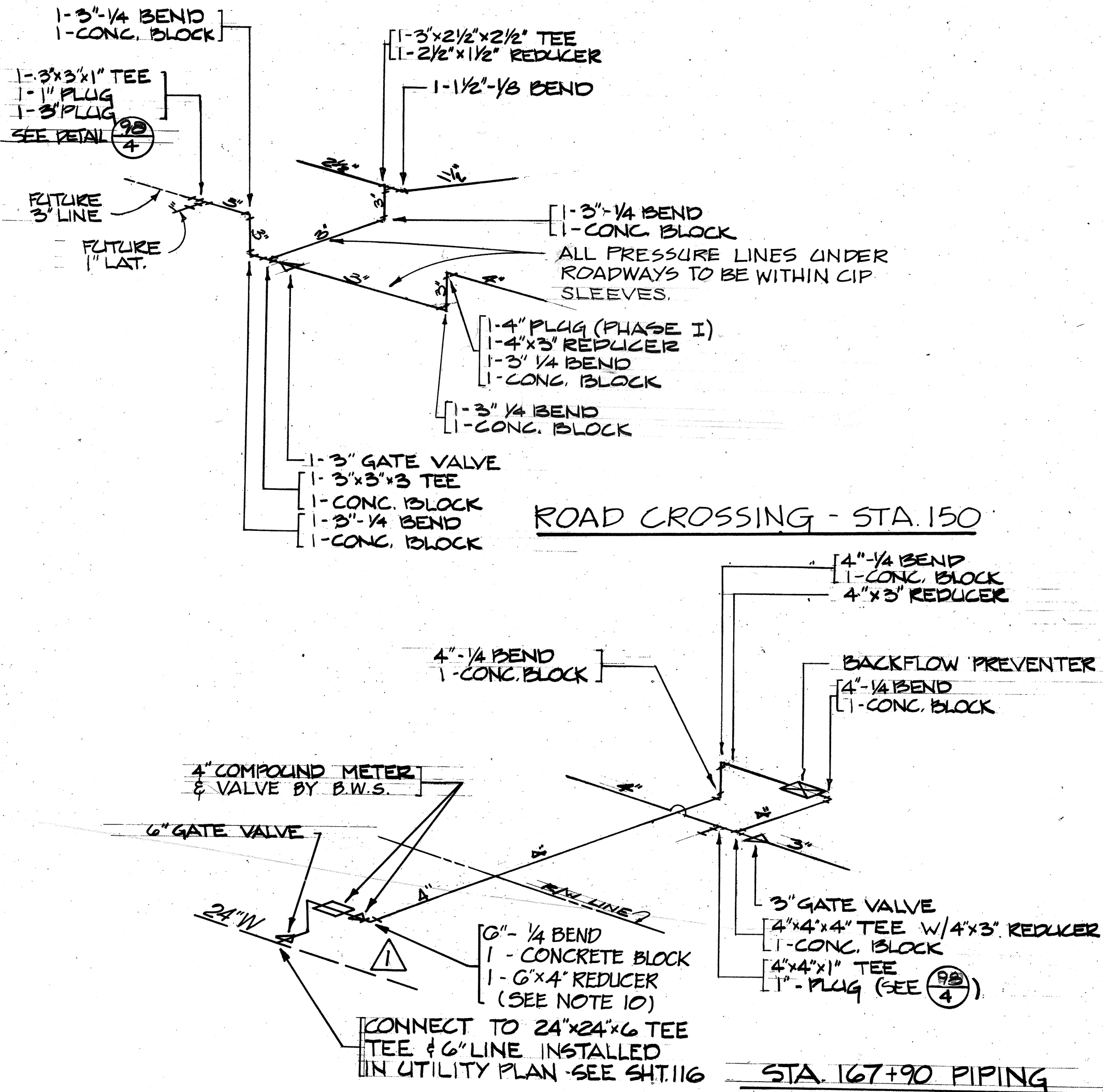
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(118)16	1975	99	209

LEGEND & IRRIGATION EQUIP. LIST		
SYMBOL	NUMBER	ITEM DESCRIPTION
—24"W—		CITY 24" WATER MAIN
○	Q-50-V	QUICK COUPLING VALVE
▶	G.V.	GATE VALVE WITH V. BOX
⊠	B.F.P.	BACKFLOW PREVENTER UNIT
—2"—		IRRIGATION LINE (SEE DRAWING OR SPEC. FOR TYPE)

GENERAL NOTES

- FINAL LOCATIONS OF VALVES, BACKFLOW PREVENTER AND SUPPLY LINE SHALL BE DETERMINED BY THE ENGINEER.
- CONCRETE REACTION BLOCKS SHALL BE CLASS 'B'.
- MINIMUM LINE SIZE BETWEEN SPRINKLER HEADS SHALL BE AS SHOWN ON PLANS.
- LINE SIZES UP TO AND INCLUDING 3" SHALL BE GALVANIZED STEEL, COPPER OR P.V.C. PIPE, EXCEPT THAT PIPE UNDERNEATH PAVED AREAS SHALL BE COPPER.
- UNLESS OTHERWISE INDICATED ON THE PLANS THE LATERALS FOR THE SPRINKLER HEADS SHALL BE LOCATED AS FOLLOWS.
6" FROM SWALES & RETAINING WALLS.
1' FROM THE CONSTRUCTION FENCE & LATERALS TO FUTURE SPRINKLERS PLUGGED 6" FROM FENCE LINE.
- GATE VALVES SHALL BE CLASS 150.
- INDICATED METER & VALVE WILL BE INSTALLED AND SUPPLIED BY BWS. ALL OTHER MATERIALS SHALL BE PROVIDED BY THE CONTRACTOR.
- ALL SPRINKLER PIPING MAUKA OF BWS METER SHALL BE PAID FOR UNDER SECTION G16. THE 6" LINE MAKAI OF METER SHALL BE PAID FOR UNDER SECTION G24.
- SLEEVES SHALL BE REQUIRED FOR ALL PRESSURE LINES UNDERNEATH ROADWAYS. (SLEEVES SHALL BE CONSIDERED INCIDENTAL ITEMS)
- THE 4" SPRINKLER LINE SHALL BE CONNECTED TO THE B.W.S. VALVE AFTER THE METER AND VALVE HAVE BEEN INSTALLED AND TESTED.

ESTIMATED QUANTITIES	
1" COPPER PIPE	46 LF.
3" " "	72 LF.
1" GALV. STL, COPPER, OR PVC PIPE	1077 LF.
1 1/4"	295 LF.
1 1/2"	469 LF.
2"	295 LF.
2 1/2"	225 LF.
3"	133 LF.
4"	1862 LF.
1-50-F SPRINKLER HEAD	16 Ea.
Q-50-V QUICK COUPLING VALVE	60 Ea.
3" GATE VALVE W/TYPE 'A' V.B.	4 Ea.
3" BACKFLOW PREVENTOR UNIT	1 Ea.



PIPING DIAGRAMS
NO SCALE



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

2-21-75	Revised Connection & Relocated Water Meter. Revised General Note #7. Added General Note #10.
NO. DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
SPRINKLER SUMMARY & DIAGRAMS	
AIRPORT INTERCHANGE P.A.I. PROJ. NO. I-HI-1(118)16	
SCALE: AS SHOWN	DATE: JUNE 15, 1974
SHEET No. 11 OF 11 SHEETS	

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