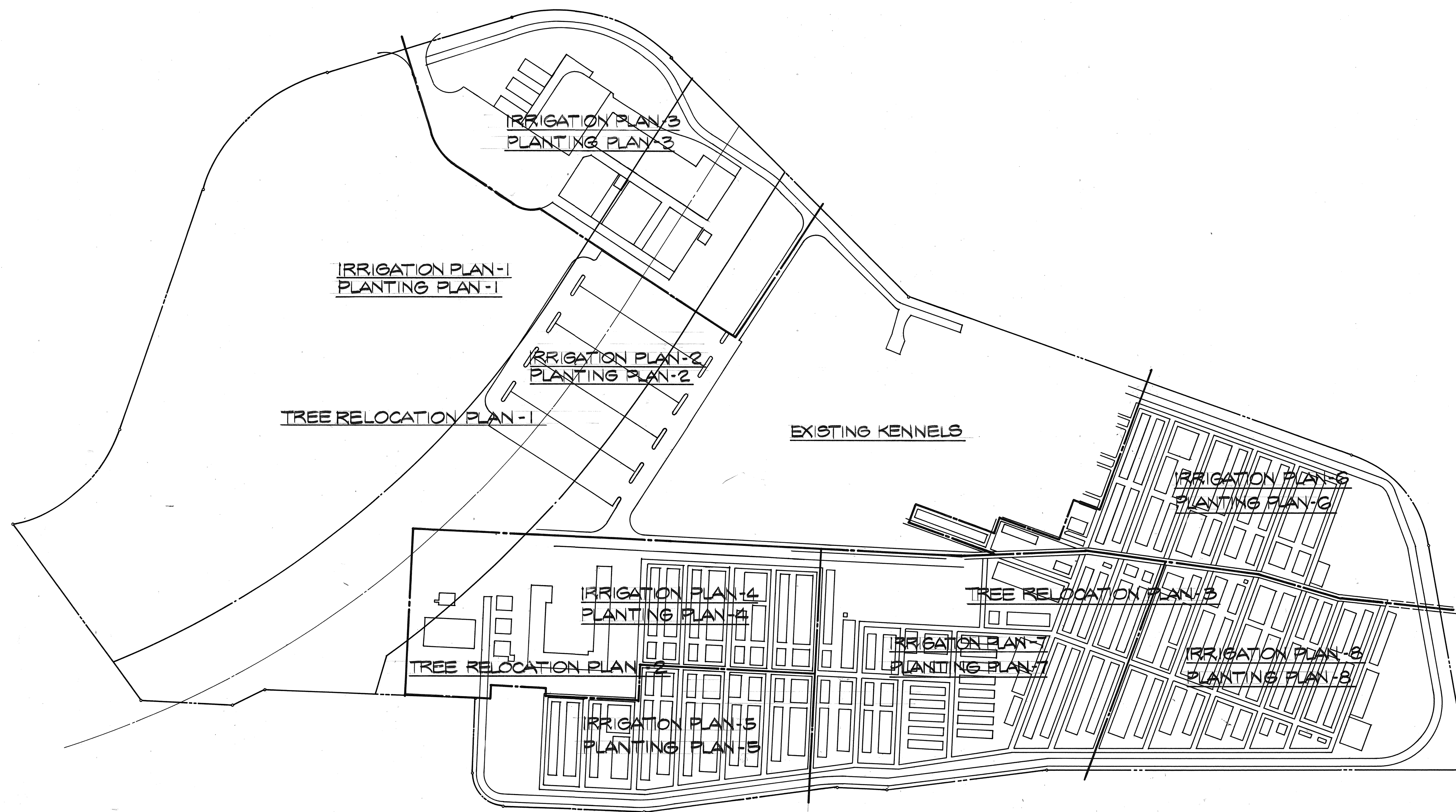
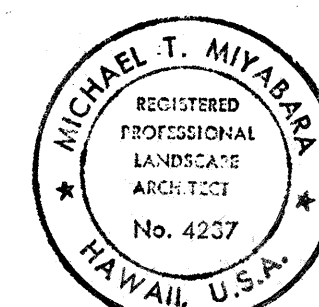


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	67	191



KEY TO LANDSCAPE PLANS

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



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPING

KEY TO LANDSCAPE PLANS

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

NOT TO SCALE DATE: JULY 1988

SHEET No. LI OF 23 SHEETS

DATE

REVISION

IRRIGATION EQUIPMENT LIST AND LEGEND.

ITEMS NOTED BY BRAND NAMES ARE FOR QUALITY COMPARISON PURPOSES ONLY. ALL ITEMS ARE DEEMED TO BE FOLLOWED BY, "OR APPROVED EQUAL."

SYMBOL	DESCRIPTION	MANUFACTURER	NOTES
3"	IRRIGATION MAIN	SEE SPECS	SIZES AS INDICATED
1/2"	" LATERAL	" "	" " "
∞	REDUCE PRESSURE PRINCIPLE BACKFLOW PREVENTER	FEBCO 825Y, 835Y	1 EA. 2" SIZE, 2 EA. 2 1/2" SIZE
●	REMOTE CONTROL VALVE	BUCKNER 20930 SERIES SCH. 40 PVC	3/4", 1", 1 1/4", 1 1/2", 2" SIZES AS INDICATED
④	PIPE SLEEVE	"	"
▲	QUICK COUPLER VALVE (SEE NOTE #9)	BUCKNER 25030-00-00-00-06 w/25014 COUPLER	3/4" COUPLER w/VALVE w/ BLACK RUBBER COVERED BRONZE COVER
■	CONTROLLERS (A,B,C,D,E. B MADE UP OF 2 CONTROLLERS)	BUCKNER M12 FC M24 FC PED-1	3 EA. 12 STA. (A,B,C) 3 EA. 24 STA. (B,D,E) PEDESTAL MOUNT
IRRIGATION HEADS			
◎	IMPACT ROTOR POP-UP	BUCKNER 17011-10 10010-10	GPM/PSI RAD. COV. 4.1/35 39' PART CIRCLE 4.1/35 39' FULL "
■	STREAM ROTOR POP-UP	TORO 316-00-02 312-00-02	2.88/35 21' 360° 1.91/35 21' 270°
■	" " "	" 308-00-02	1.38/35 21' 180°
□	" " "	" 304-00-02	.70/35 21' 90°
●	SPRAY POP-UP	TORO 570P-12-F	2.0/25 12' MAX. 360°
⊕	" " "	" " -270°	1.5/25 12' MAX. 270°
○	" " "	" " -H	1.0/25 " " 180°
○	" " "	" " -Q	.7/25 " " 90°
○	" " "	" " 4-EST.	.6/30 4x15' END STRIP
○	" " "	" " 4-CST.	1.2/30 4x30' CENTER STRIP
○	IMPACT ROTOR (FOR QUICK COUPLER)	BUCKNER 17001-10 00-00-03	4.1/35 39' MAX. FULL/ PART CIRCLE
CONTROLLER/STATION NO.			
82/2	VALVE SIZE		
65	GPM OF SYSTEM		
△	STREAM ROTOR ON RISER	TORO 308-10-02	1.38/35 21' 180°
□	SPRAY HEAD ON RISER	TORO 570S-12-H	1.0/25 12' MAX. 180°
□	" " "	" " -12-Q	.7/25 12' MAX. 90°

NOTE THAT SOME STATIONS CONTROL 2-VALVES.

IRRIGATION NOTES:

1. THE CONTRACTOR SHALL INSPECT THE SITE CONDITIONS PRIOR TO COMMENCING WITH THE WORK. ANY DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. BY COMMENCING WITH THE WORK, THE CONTRACTOR ACCEPTS THE EXISTING CONDITIONS AND RESPONSIBILITY FOR MAINTAINING THOSE CONDITIONS.
2. IRRIGATION SYSTEMS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND SUBJECT TO MINOR ADJUSTMENTS DUE TO UNANTICIPATED FIELD CONDITIONS. AVOID ANY CONFLICTS BETWEEN THE IRRIGATION SYSTEMS AND PLANTINGS, UTILITIES, AND ARCHITECTURAL ELEMENTS.
3. THE CONTRACTOR SHALL TEST AND VERIFY THE ADEQUACY OF THE GPM AND WORKING PRESSURE AT THE POINT OF CONNECTION TO THE SUPPLY LINE PRIOR TO COMMENCING WITH THE WORK. ANY DISCREPANCIES OR DEFICIENCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
4. THE IRRIGATION SYSTEMS ARE DESIGNED TO OPERATE AT THE PRESSURES LISTED FOR THE HEAD TYPES IN THE LEGEND. ADJUST VALVES AS REQUIRED TO OBTAIN THE PROPER PRESSURE AT THE LAST HEAD OF EACH SYSTEM.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE IRRIGATION WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS AND TRADES, ESPECIALLY INSTALLATION OF SLEEVES, CONDUITS, LINES, AND WATER CONNECTIONS.
6. PIPING AND CONTROL WIRES (w/SLEEVES) UNDER PAVED AREAS SHALL BE INSTALLED BY THE IRRIGATION CONTRACTOR.
7. THE IRRIGATION CONTRACTOR SHALL INSTALL THE IRRIGATION CONTROLLER AS NOTED ON THE DRAWINGS. HE SHALL COORDINATE AND INSTALL PVC SLEEVES, WITH PULL WIRE, FOR LOW VOLTAGE CONTROL WIRES FROM THE CONTROLLER TO THE VALVES.

NOTES - CONT.

8. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY SUBSURFACE UTILITIES DAMAGED BY EXCAVATION OR TRENCHING OPERATIONS AT COST. THE CONTRACTOR SHALL EXERCISE EXTRA CAUTION IN AREAS SUSPECTED OF CONTAINING SUBSURFACE UTILITIES.
9. CONTRACTOR TO PROVIDE 2 EA. QUICK COUPLERS AND IMPACT ROTORS FOR USE BY THE AGS STAFF.

ADD TO PLANT LIST:

43	BOUGAINVILLEA GLABRA SP. 'MAGNIFICA'	THORNLESS PURPLE BOUGAINVILLEA	1 GAL.	18" 12"
1,920 SF	RUPELLIA CILIOSA	RUPELLIA	ROOTED CUTTINGS	

PLANT LIST

QUANTITY	BOTANICAL NAME	COMMON NAME	ROOTBALL	HT.	SP.
10	PLUMERIA SP. 'MOIR'	MOIR'S PINK PLU.	15 GAL.	8'	4'
136	FELICLUM DECIPENS	FERN TREE	5 GAL.	6'	3'
398	PRITCHARDIA PACIFICA	FIJI FAN PALM	5 GAL.	4'	4'
3	CARYOTA PLUMOSA	CLUSTERED FISTTAIL PALM	25 GAL.	8'	MULTIPLE CLUMPING
GRASSES/GROUND COVERS					
632,500 SF	CYNODON DACTYLON	COMMON BERMUDA	SEED		
137,080 SF	PENNISETUM CLANDESTINUM	KIKUYU	SPRIGS		
992 EA.	MICROSORIUM	LAUAE FERN	QT.	12"	12"
	SCOLOPENDRIA				
RELOCATED TREES/PALMS					
19	CASSIA JAVANICA x FISTULA	RAINBOW SHOWER			
2	COCCOS NUCIFERA	COCONUT PALM			
10	DELONIX REGIA	ROYAL POINCIANA			
7	FELICLUM DECIPENS	FERN TREE			
26	FICUS BENJAMINA	WEeping FIG			
14	PLUMERIA SP.	PLUMERIA			
13	SAMANEA SAMAN	MONKEYPOD			

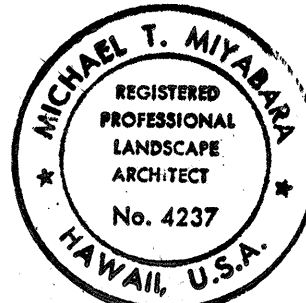
> NOTE: 5 OF 13 TO BE TEMPORARILY STORED PRIOR TO FINAL RELOCATION.

PLANTING NOTES

1. THE CONTRACTOR SHALL INSPECT THE SITE AND FIELD CONDITIONS PRIOR TO COMMENCING WITH THE WORK. ANY DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. BY COMMENCING WITH THE WORK, THE CONTRACTOR ACCEPTS THE EXISTING CONDITIONS AND RESPONSIBILITY FOR MAINTAINING THOSE CONDITIONS.
2. PLANT QUANTITIES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND INSTALL THE NECESSARY PLANTS IN QUANTITIES SUFFICIENT TO FULFILL THE DESIGN AT THE SPACING AND LOCATIONS SHOWN.
3. THE CONTRACTOR SHALL GRASS ALL AREAS DISTURBED BY NEW CONSTRUCTION OR DEMOLITION WORK. SEE CIVIL DRAWINGS FOR LIMITS OF GRADING AND CONSTRUCTION NOT SHOWN HEREIN.
4. "GRASS" AS IDENTIFIED ON THE PLANS INDICATE AREAS TO RECEIVE NEW CYNODON DACTYLON. (PLANT KIKUYU GRASS IN AREA INDICATED.)
5. TREES OR PALMS TO BE RELOCATED SHALL BE INSTALLED AT ITS PERMANENT LOCATION, EXCEPT FOR 5 SAMANEA SAMAN (MONKEYPOD) NOTED IN THE PLANT LIST TO BE TEMPORARILY STORED AND MAINTAINED PRIOR TO INSTALLATION AT THEIR PERMANENT LOCATIONS.

8-20-90 ADD PLTS. AT BLDG. PARKING.
DATE REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	68	191



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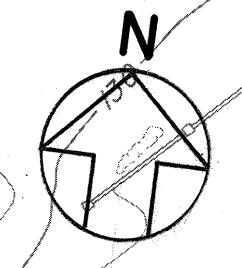
LANDSCAPING

IRRIGATION AND PLANTING
LISTS AND NOTES

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: NONE DATE: JULY 1988
SHEET No. L2 OF 23 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	69	191



LEGEND
● EXISTING TREES OR PALMS TO BE RELOCATED (REFER TO PLANTING PLAN FOR NEW LOCATIONS AND IDENTIFICATION)

- C CASSIA JAVANICA x FISTULA (RAINBOW SHOWER)
19 TOTAL
- B FICUS BENJAMINA (weeping fig)
26 TOTAL
- D DELONIX REGIA (ROYAL PONCIANA)
10 TOTAL
- F FELICM DECIPENS (FERM TREE)
7 TOTAL
- R PLUMERIA SP. (PLUMERIA)
14 TOTAL
- CN Cocos nucifera (COCONUT PALM)
2 TOTAL
- S SAMANEA SAMAN (MONKEYPOD)
13 TOTAL

11-91 REFERENCE NUMBER (TO AID IN IDENTIFYING A CERTAIN TREE.)

○ EXISTING TREES OR PALMS TO REMAIN

NOTE: ALL OTHER TREES OR PALMS WITHIN THE LANDSCAPE WORK LIMITS NOT IDENTIFIED TO REMAIN OR BE RELOCATED SHALL BE REMOVED TO MAKE WAY FOR NEW CONSTRUCTION.

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MICHAEL T. MIYAKURA
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
No. 4237
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPING

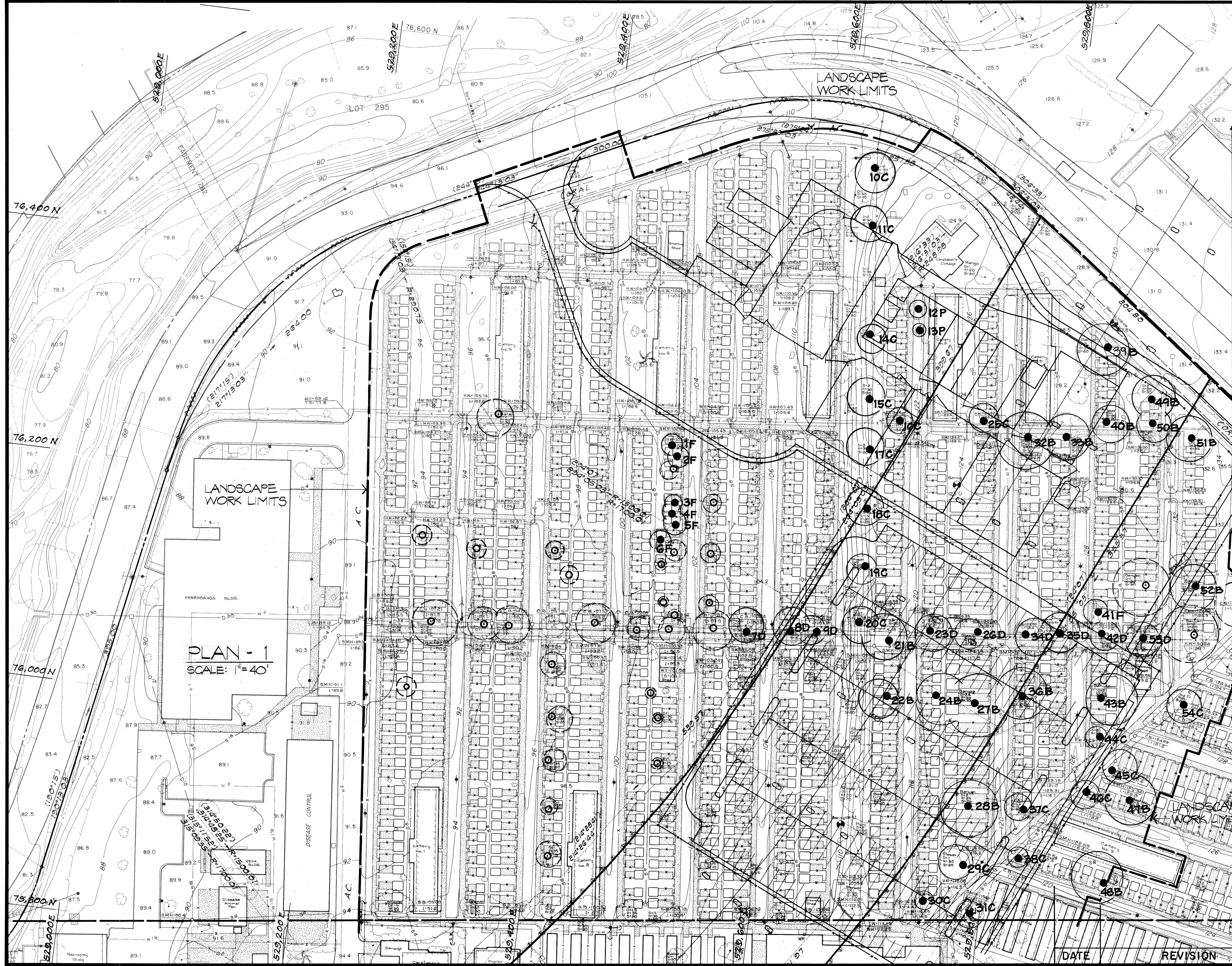
TREE RELOCATION PLAN - 1

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

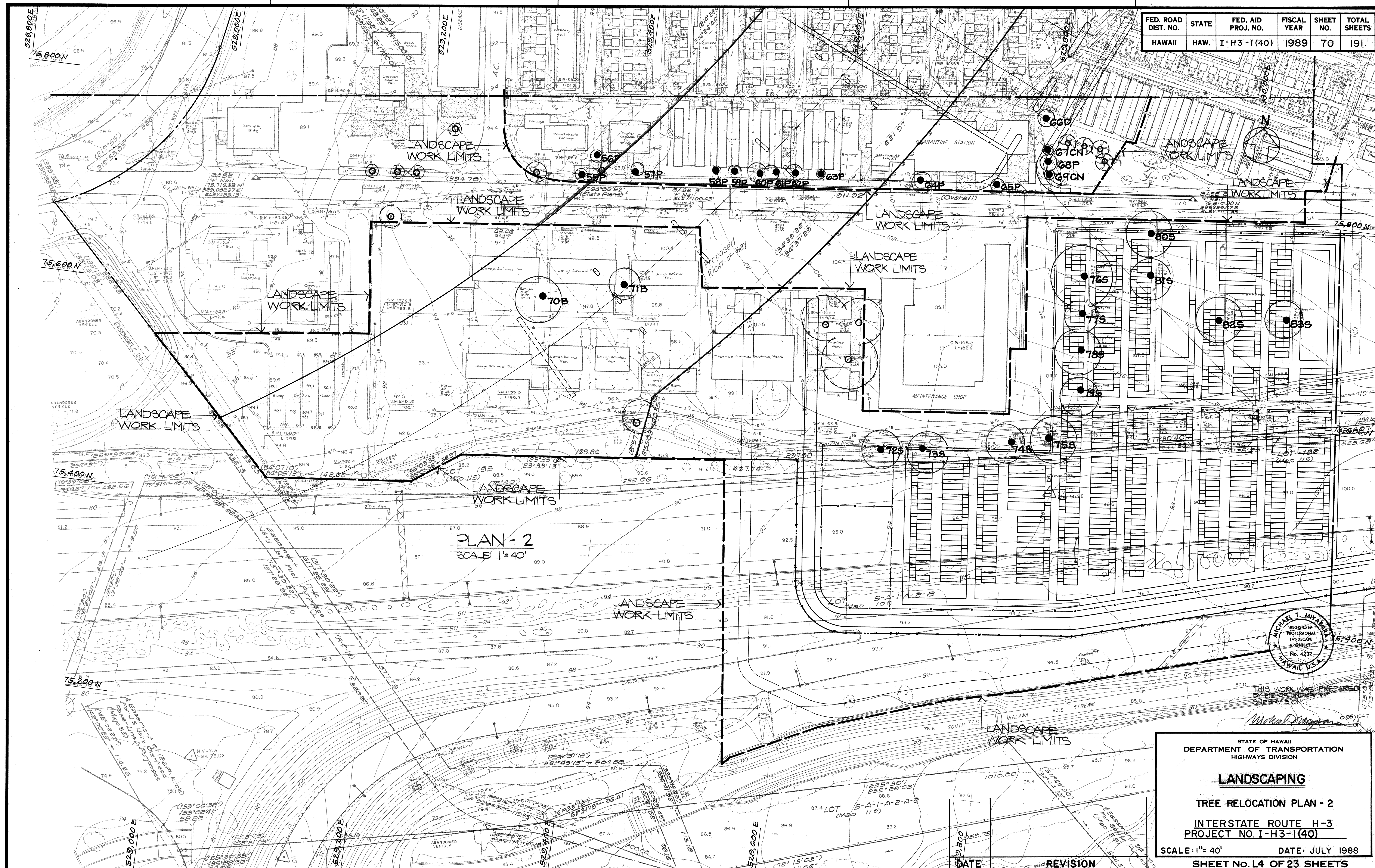
SCALE: 1"=40' DATE: JULY 1988

SHEET NO. 13 OF 23 SHEETS

ORIGINAL PLAN	DATE
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	



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



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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPING

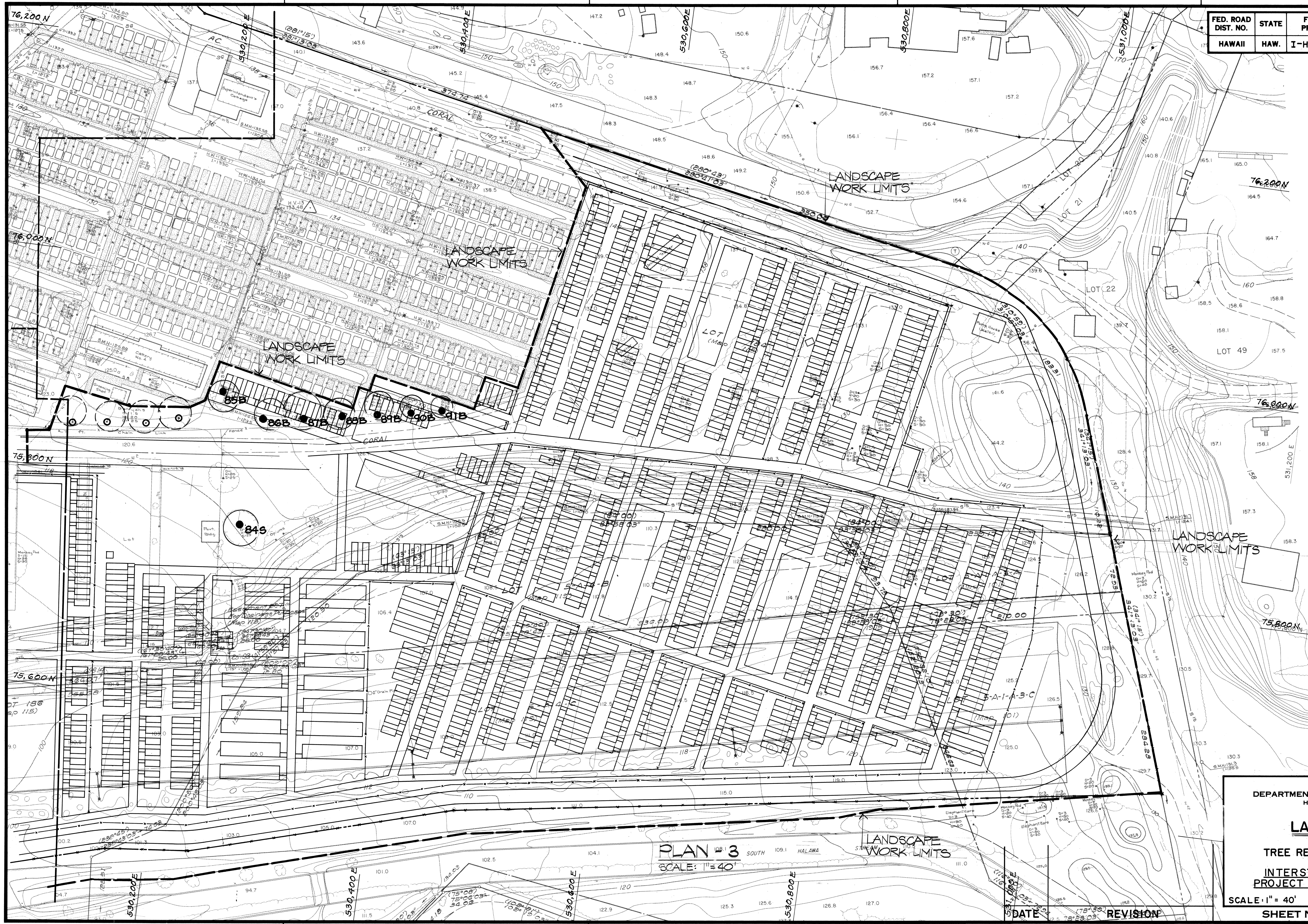
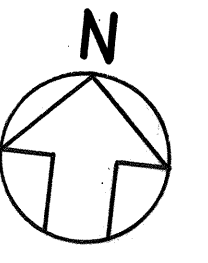
TREE RELOCATION PLAN - 2

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: 1" = 40' DATE: JULY 1988

SHEET No. L4 OF 23 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	71	191



ORIGINAL PLAN	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

PLAN 3
SCALE: 1" = 40'



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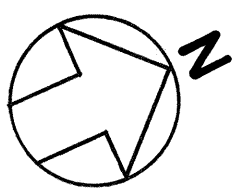
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HIGHWAYS DIVISION

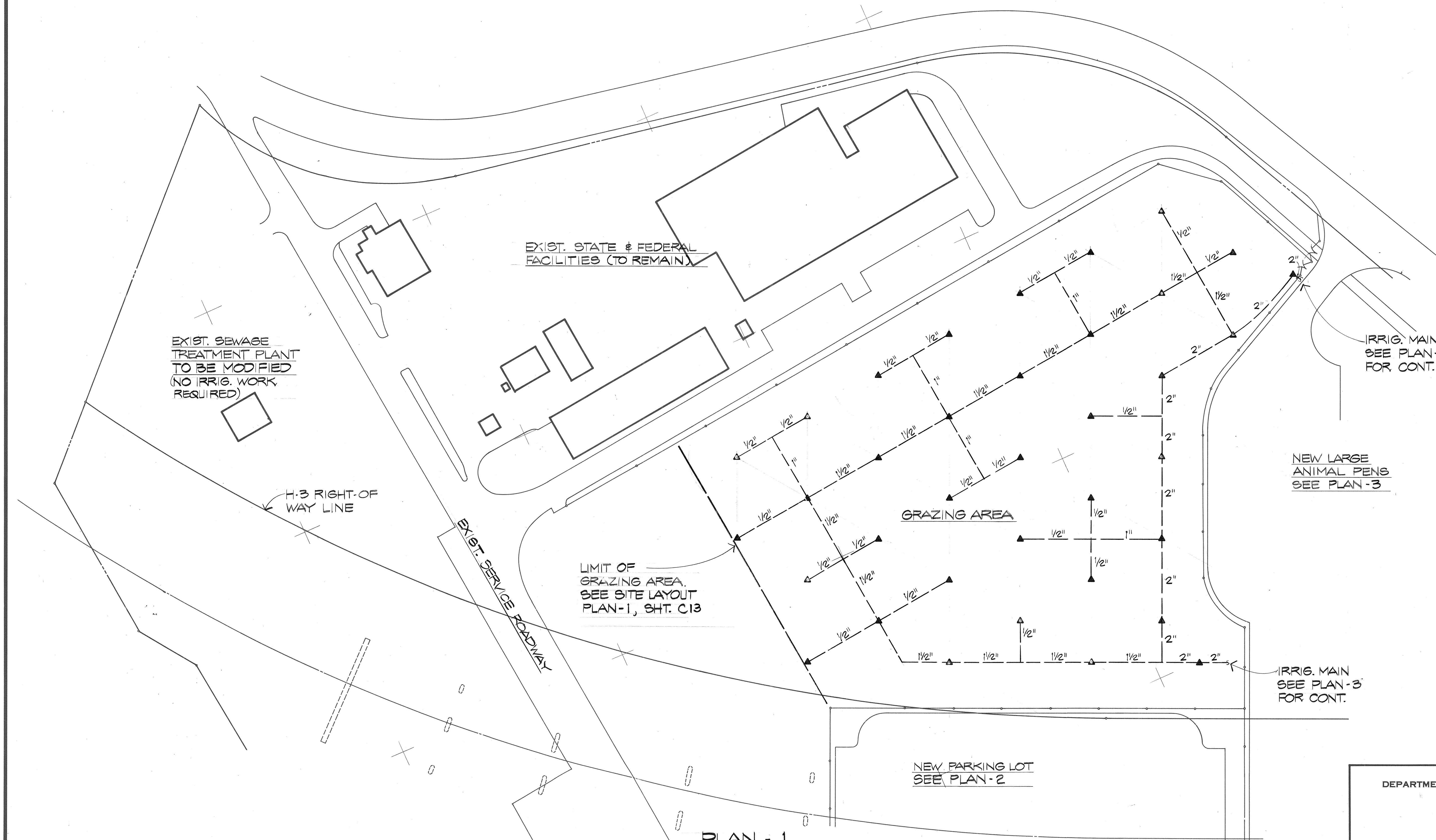
LANDSCAPING
TREE RELOCATION PLAN - 3
INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)
SCALE: 1" = 40' DATE: JULY 1989
SHEET No. L5 OF 23 SHEETS

DATE	REVISION

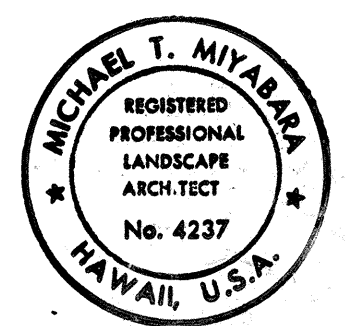
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	72	191



ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	



PLAN - 1
SCALE: 1" = 40'



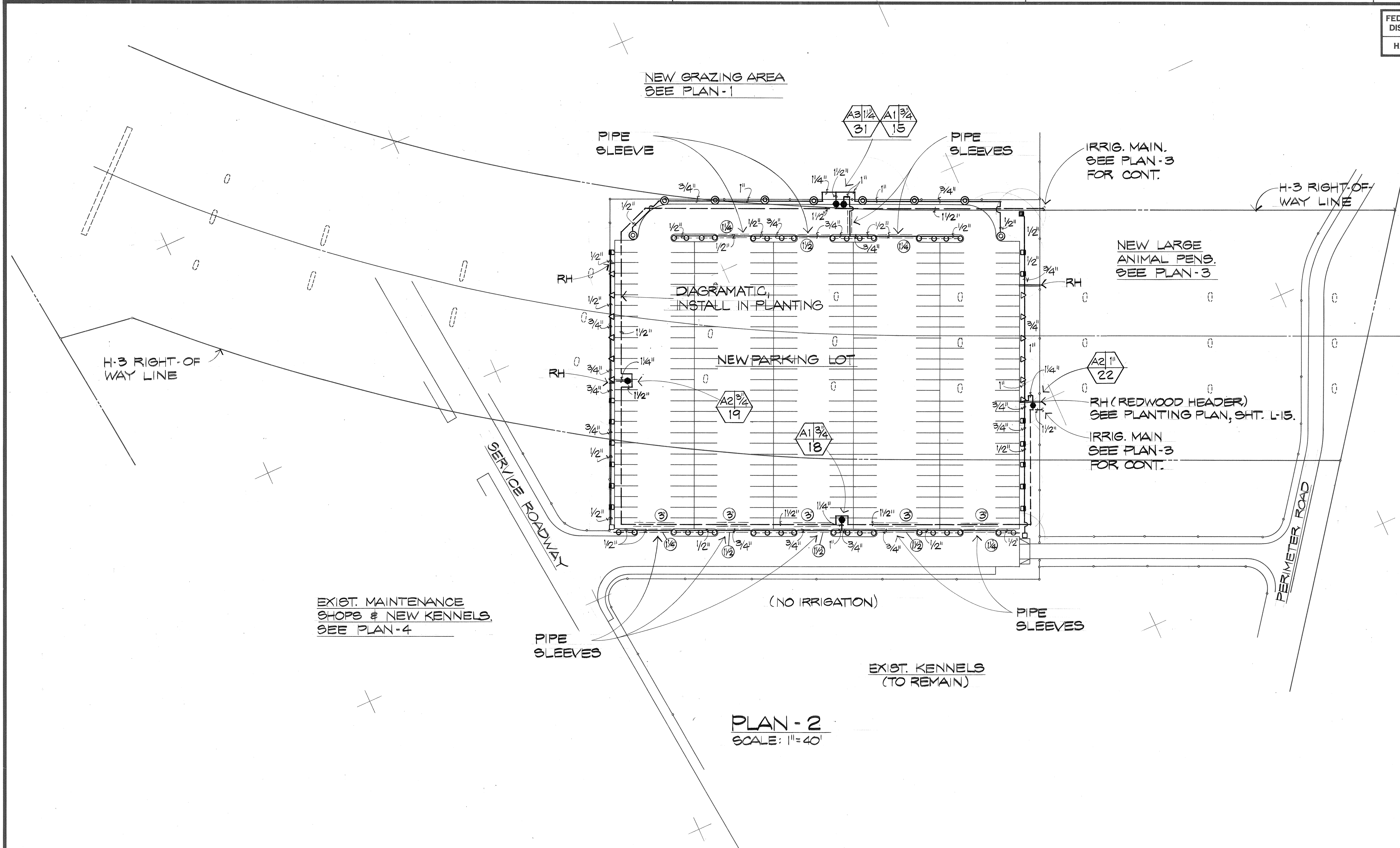
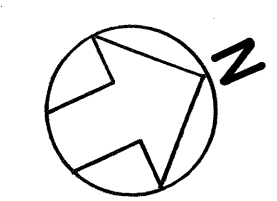
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STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
IRRIGATION
IRRIGATION PLAN-1
INTERSTATE ROUTE H-3 PROJECT NO. I-H3-1(40)
SCALE: 1" = 40' DATE: JULY 1988
SHEET NO. L6 OF 23 SHEETS

DATE	REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	73	191



PLAN - 2
SCALE: 1" = 40'

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



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HIGHWAYS DIVISION

IRRIGATION

IRRIGATION PLAN-2

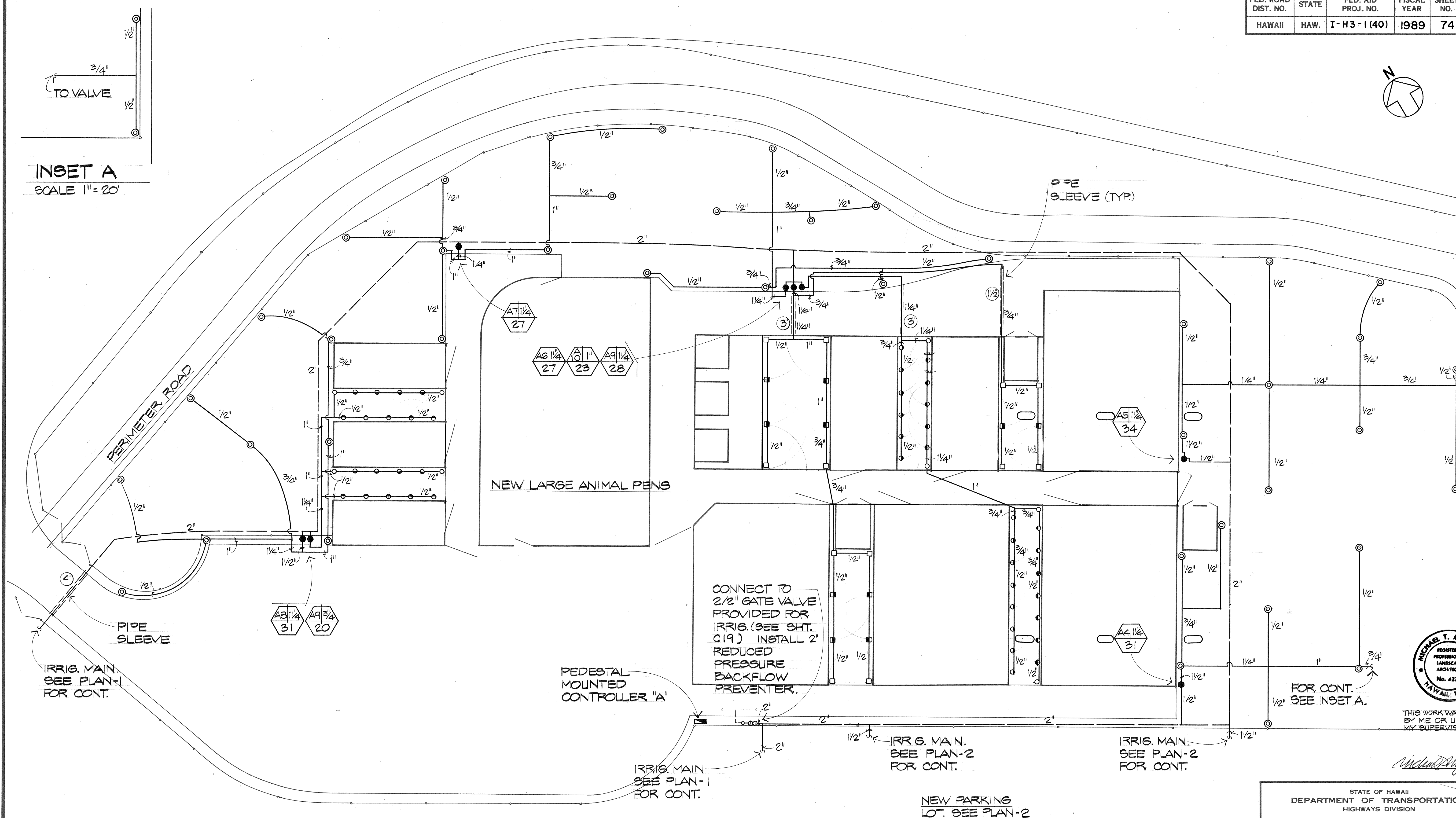
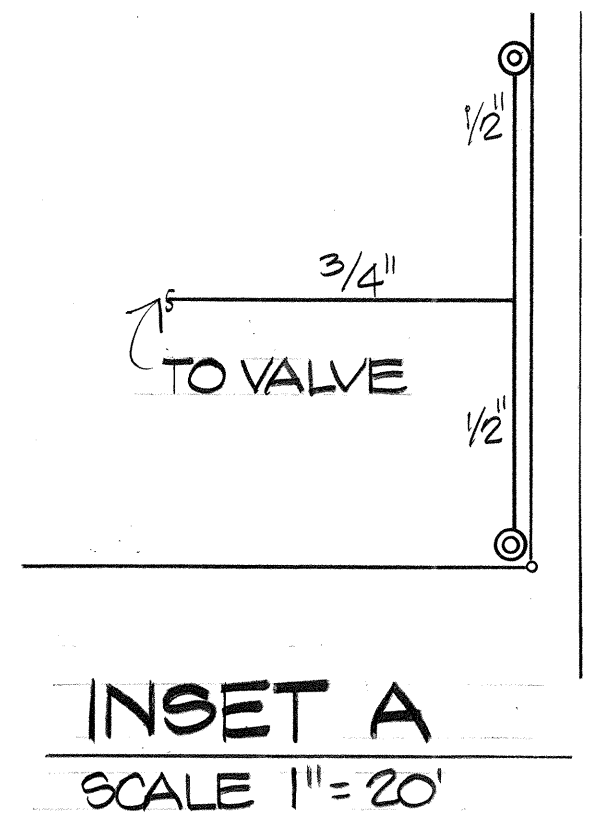
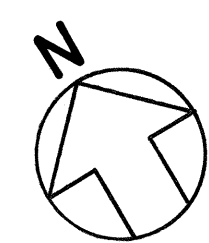
INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: 1" = 40' DATE: JULY 1988

SHEET No. L7 OF 23 SHEETS

DATE	REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	74	191



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

PLAN-3
SCALE 1" = 20'



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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

IRRIGATION

IRRIGATION PLAN-3

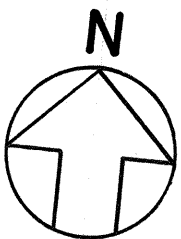
INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: 1" = 20' DATE: JULY 1988

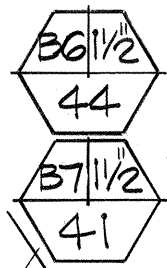
SHEET No. L8 OF 23 SHEETS

DATE	REVISION
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	75	191



MATCH LINE - SEE PLAN-7



IRRIG. MAIN.
SEE PLAN-7
FOR CONT.



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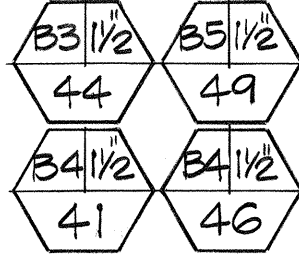
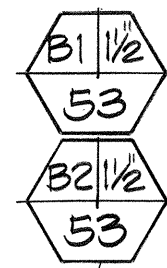
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HIGHWAYS DIVISION

IRRIGATION
IRRIGATION PLAN - 4
INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE 1"= 20'
DATE: JULY 1988
SHEET NO. 19 OF 23 SHEETS

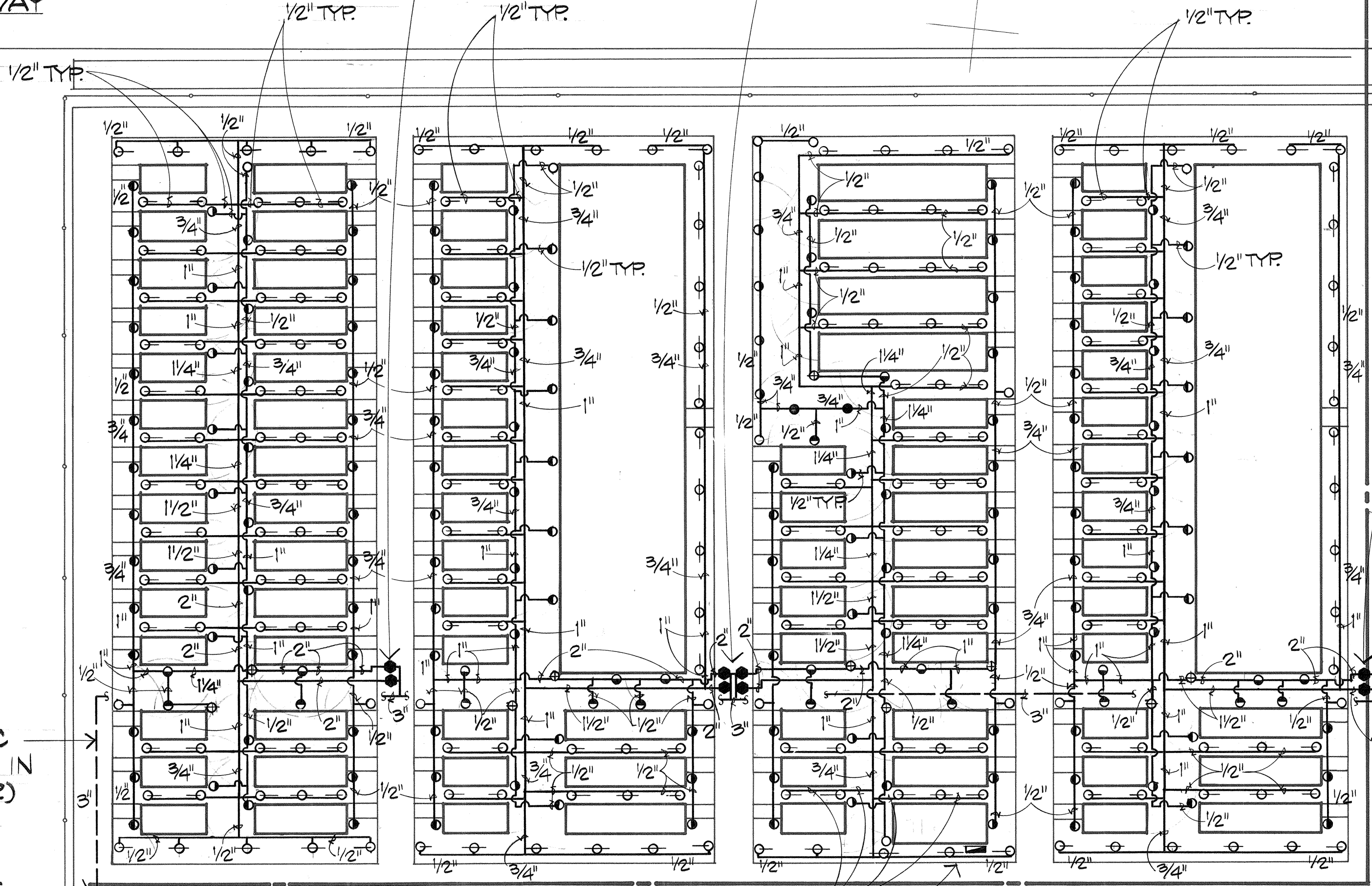
DATE	REVISION
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EXIST. KENNELS
(TO REMAIN)

SERVICE ROADWAY

NEW PARKING LOT
SEE PLAN-2



DIAGRAMMATIC
ONLY. INSTALL IN
PL. AREAS (TYP.)

IRRIG. MAIN. SEE
PLAN-5 FOR
CONT.

PEDESTAL
MOUNTED
CONTROLLER "B"
(1-12 STATION, 1-24
STATION)

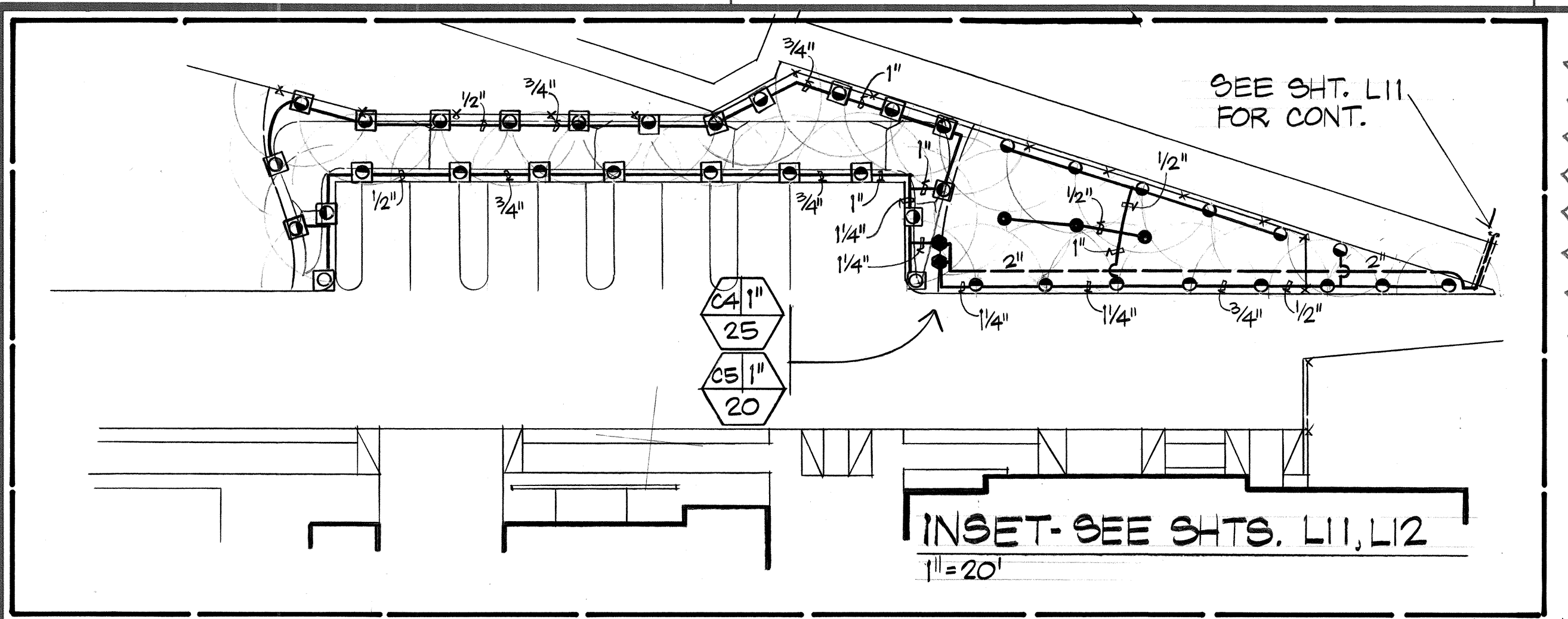
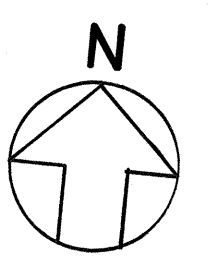
PLAN-4
SCALE 1"= 20'

EXIST. MAINTENANCE SHOP
(TO REMAIN)

MATCH LINE SEE PLAN-5

ORIGINAL PLAN	DATE
NOTED BY	
DESIGNED BY	
CHECKED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	76	191



IRRIG. MAIN
SEE PLAN-4
FOR CONT.

MATCH LINE

SEE PLAN-4

DUPLEX
COTTAGE

CARETAKER'S
COTTAGE #1

PERIMETER ROAD

PLAN-5
SCALE 1"=20'

MATCH LINE-SEE PLAN-7

IRRIG. MAIN
SEE PLAN-7
FOR CONT.



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HIGHWAYS DIVISION

IRRIGATION

IRRIGATION PLAN-5

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: 1"=20' DATE: JULY 1988

SHEET No. L10 OF 23 SHEETS

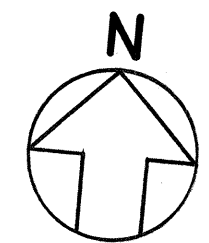
8-20-90 ADD IRR. AT BLDG. PARKING

DATE REVISION

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	78	191

MATCH LINE - SEE PLAN - 6



IRRIG. MAIN SEE PLAN-8 FOR CONT.

PEDESTAL MOUNTED CONTROLLER "D"

IRRIG. MAIN. SEE PLAN-8 FOR CONT.



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HIGHWAYS DIVISION

IRRIGATION

IRRIGATION PLAN-7

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: 1"=20' DATE: JULY 1988
SHEET No. 12 OF 23 SHEETS

PLAN-7
SCALE 1"=20'

DATE	REVISION
8-20-90	DELETED PLANTER SPACE NEAR Foyer
8/25/89	ADD IRR. AT BLDG. PARKING
	ADDED VENDOR'S ROOM, ADJUSTED IRRIGATION.

CONNECT TO 3" G.V. PROVIDED FOR IRRIG. (SEE WATER PLAN-3, SHT. C21) INSTALL REDUCED PRESSURE BACKFLOW PREVENTER, 2 1/2" SIZE.

FOR IRR. AROUND PARKING SEE INSET SHT. L10.

DIAGRAMMATIC. INSTALL IN PL. AREA (TYP.)

PIPE SLEEVE (TYP.)

SERVICE ROADWAY

AGS BLDG

IRRIG. MAIN. SEE PLAN-6 FOR CONT.

SEE PLAN-8

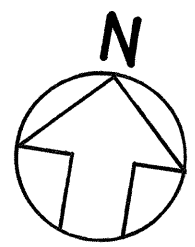
MATCH LINE

IRRIG. MAIN. SEE PLAN-4,5 FOR CONT.

SEE PLAN-4,5

ORIGINAL PLAN	DATE
NOTED 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- H3 -1 (40)	1989	79	191



IRRIG. MAIN.
SEE PLAN-7
FOR CONT.

IRRIG. MAIN. SEE
PLAN-6 FOR CONT.
PEDESTAL MTD.
CONTROLLER
"E"

CONNECT TO 3" G.V.
PROVIDED FOR IRRIG.
(SEE WATER PLAN-3, SHT. C21)
INSTALL REDUCED
PRESSURE BACKFLOW
PREVENTER, 2 1/2"
SIZE.

IRRIG. MAIN.
SEE PLAN-7
FOR CONT.

DIAGRAMMATIC.
INSTALL IN PL.
AREAS. (TYP)

PERIMETER ROAD

PLAN-8
SCALE 1" = 20'



THIS WORK WAS PREPARED
BY ME OR UNDER
MY SUPERVISION.

Michael T. Miyake

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

IRRIGATION

IRRIGATION PLAN-8

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1 (40)

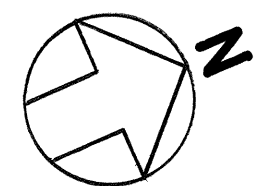
SCALE: 1" = 20' DATE: JULY 1988

SHEET NO. 113 OF 23 SHEETS

DATE REVISION

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I- H 3 - 1 (40)	1989	80	191



NOTE: GRASS ALL AREAS DISTURBED BY THE REMOVAL OF SEWAGE PLANT STRUCTURES, INCLUDING ADJACENT AREAS DISTURBED BY THIS WORK. REFER TO SHEETS D1 & C17 FOR EXTENT OF PROPOSED WORK.

EXIST. SEWAGE TREATMENT PLANT

EXIST. SERVICE ROADWAY

EXIST. STATE & FEDERAL FACILITIES (TO REMAIN)

PERIMETER ROAD

H-3 RIGHT-OF-WAY LINE

LIMIT OF GRASSING

GRASS

END KIKUYU GRASS AT LIMIT OF GRAZING AREA (SEE SITE LAYOUT PLAN-1, SHT. C13) BEGIN BERMUDA GRASS.

PLAN - 1
SCALE: 1"=40'

END KIKUYU GRASS AT FENCE, BEGIN BERMUDA GRASS

GRAZING AREA

KIKUYU GRASS

END KIKUYU GRASS AT FENCE, BEGIN BERMUDA GRASS

NEW PARKING LOT. SEE PLAN-2

9 FICUS BENJAMINA
TYP. SYMBOL, NEW LOCATION FOR EXISTING TREES

LIMIT OF GRASSING

NEW LARGE ANIMAL PENS. SEE PLAN-3

END KIKUYU GRASS AT FENCE, BEGIN BERMUDA GRASS



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Michael T. Miyahara

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPING

PLANTING PLAN - 1

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1 (40)

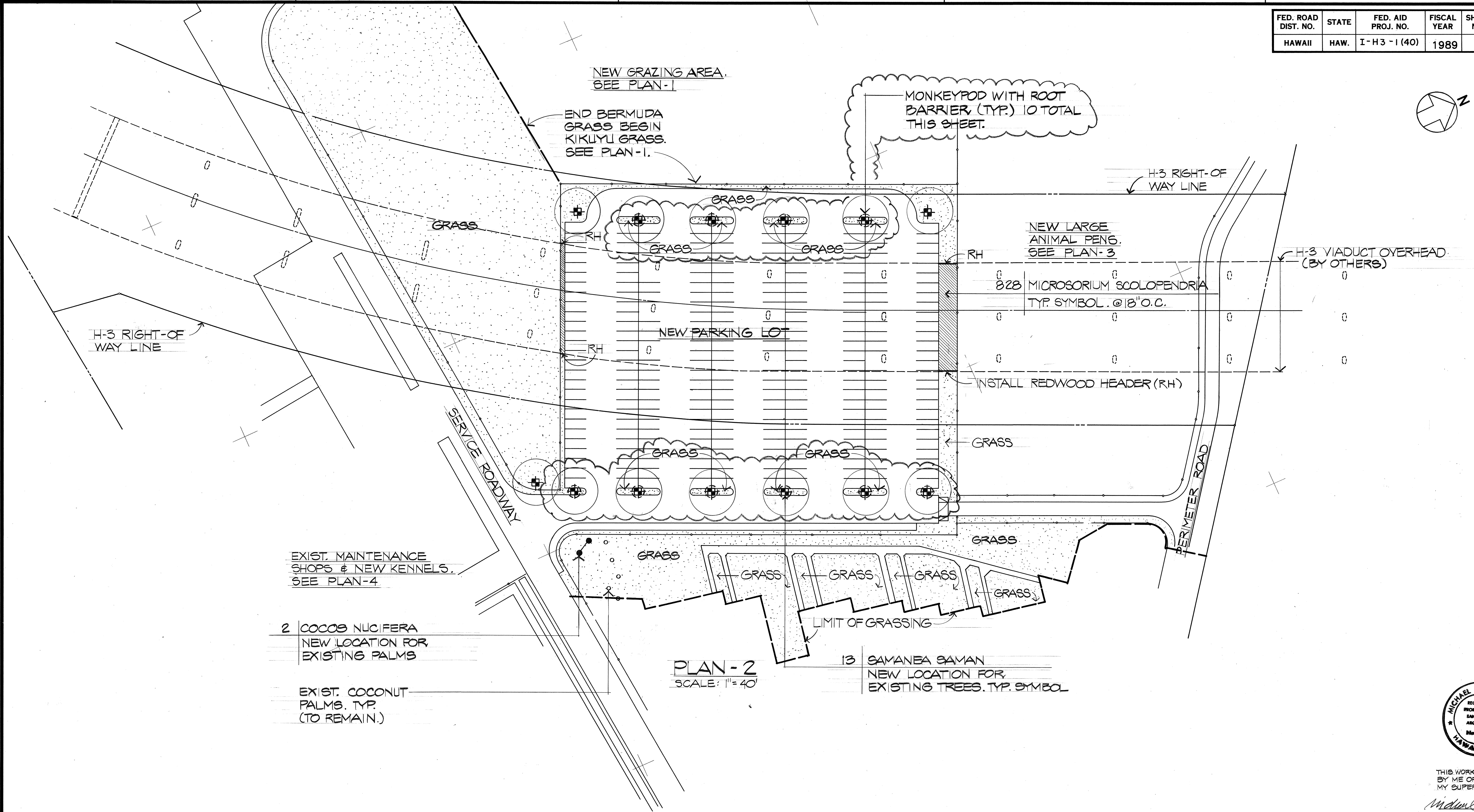
SCALE: 1"= 40' DATE: JULY 1988

SHEET No. 114 OF 23 SHEETS

DATE REVISION

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTED BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3 -1 (40)	1989	81	191



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



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Michael T. Miyahara

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

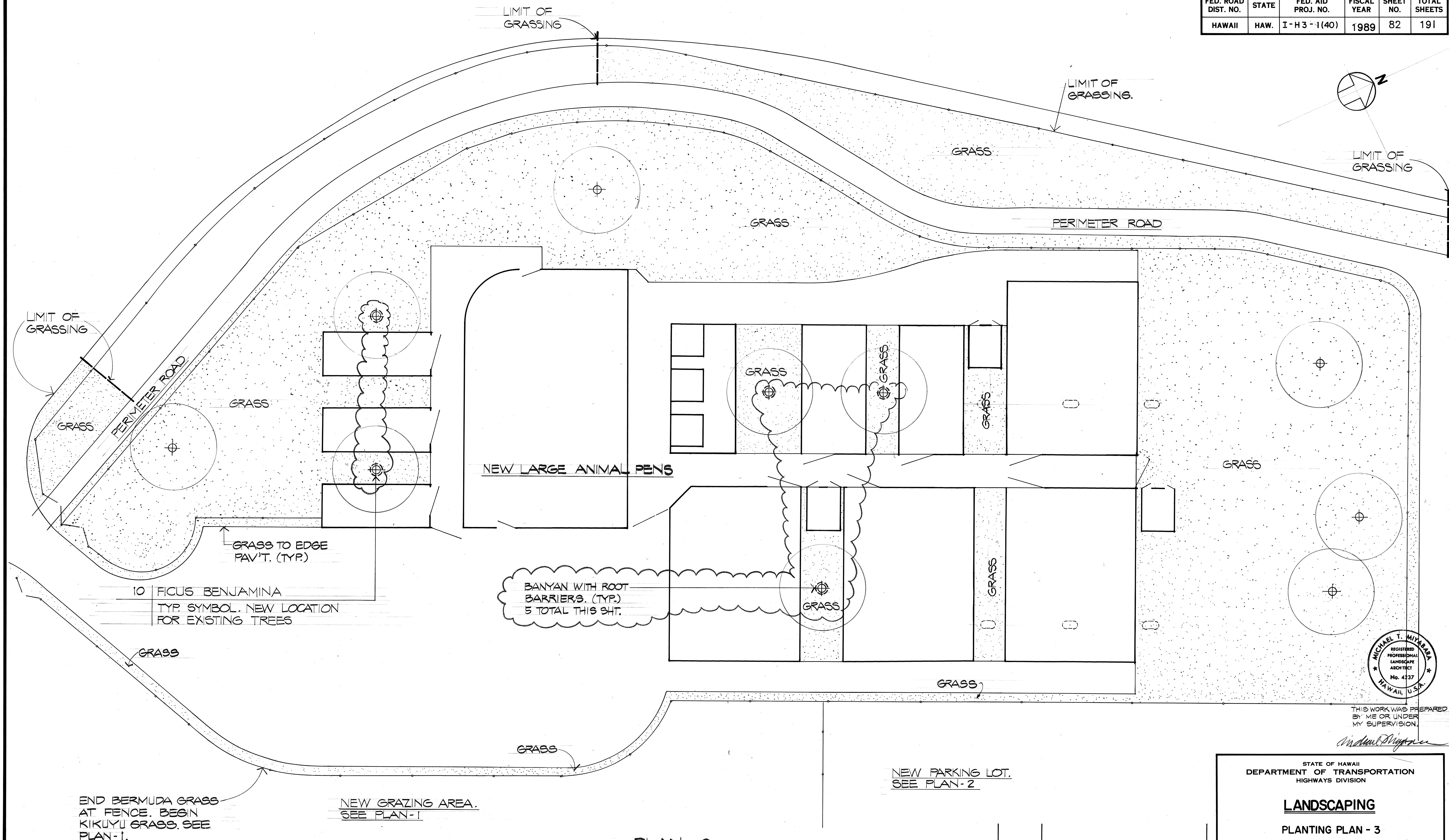
LANDSCAPING

PLANTING PLAN - 2

INTERSTATE ROUTE H-3
PROJECT NO. I-H3 -1 (40)
SCALE: 1" = 40' DATE: JULY 1988
SHEET NO. 115 OF 23 SHEETS

7-5-90	ADD ROOT BARRIER
DATE	REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	82	191



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Michael T. Miyahara

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPING
PLANTING PLAN - 3
INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)
SCALE: 1" = 20' DATE: JULY 1988
SHEET NO. 16 OF 23 SHEETS

PLAN - 3
SCALE: 1" = 20'

7-5-90	ADD ROOT BARRIER
DATE	REVISION

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	83	191



NEW PARKING LOT.
SEE PLAN-2

EXIST. KENNELS

FOR THIS AREA,
SEE PLANTING
PLAN-2.

LIMIT OF WORK

SERVICE ROAD

LIMIT OF
GRADING

GRASS

GRASS TO GRADING
LIMITS. (SEE GRADING
AND DRAINAGE PLAN,
SHT. C17.)

GRASS

GRASS

EXIST. MAINTENANCE SHOP
(TO REMAIN)

GRASS

GRASS

GRASS

GRASS

GRASS

GRASS

GRASS

GRASS

GRASS

15 FELICIMUM DECIPIENS
TYP. SYMBOL

35 PRITCHARDIA PACIFICA
TYP. SYMBOL

PLAN - 4
SCALE: 1"=20'



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Michael T. Miyama

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPING

PLANTING PLAN - 4

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

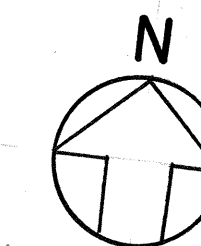
SCALE: 1"=20' DATE: JULY 1988

SHEET NO. 117 OF 23 SHEETS

DATE

REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	84	191



MATCH LINE SEE PLAN-4

MATCH LINE SEE PLAN-7



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Michael T. Miyahara

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPING

PLANTING PLAN - 5

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: 1" = 20' DATE: JULY 1988

SHEET NO. 118 OF 23 SHEETS

RAINBOW SHOWERS WITH
ROOT BARRIER (TYP.)
7 TOTAL THIS SHT.

DATE	REVISION
8-20-90	ADD PLTG. AT OFFICE PARKING
7-5-90	ADD ROOT BARRIER

PLAN - 5
SCALE: 1" = 20'

LIMIT OF GRASSING
SOUTH HALAWA CHANNEL

7 CASSIA JAVANICA X FISTULA
TYP. SYMBOL, NEW LOCATION
FOR EXISTING TREES

58 PRITCHARDIA PACIFICA
TYP. SYMBOL

PERIMETER ROAD
GRASS

GRASS

CARETAKER'S
COTTAGE #1

DUPLEX
COTTAGE

26 FELICUM DECIPIENS
TYP. SYMBOL

7 PLUMERIA SP.
TYP. SYMBOL, NEW LOCATION
FOR EXISTING TREES

1,920 SF RUELLIA CILIOSA
8' O.C.

43 BOUGAINVILLEA GLABRA 'MAGNIFICA'
GRASS TO GRADING LIMITS;
(SEE CIVIL)
BLACK POLY HDR.

10 PLUMERIA SP. 'MOIR'

BLACK POLY HEADER

GRASS

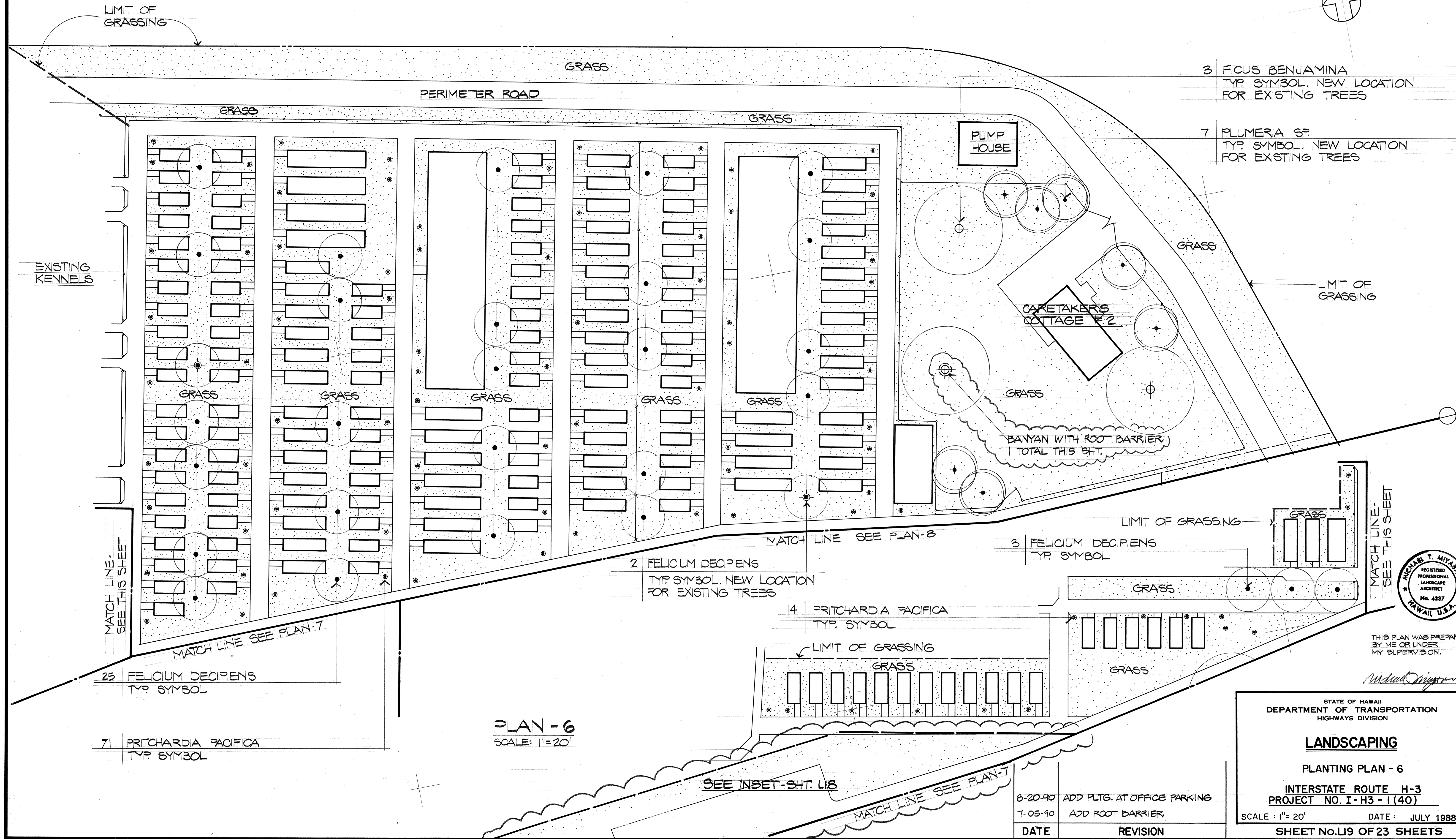
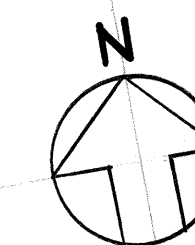
INSET - (SEE SHTS. L19 AND L20)
1" = 20'

BLDG.

GRADING
LIMIT AND
LIMIT OF GRASSING.
(SEE GRADING AND
DRAINAGE PLAN-2,
SHT. C17.)

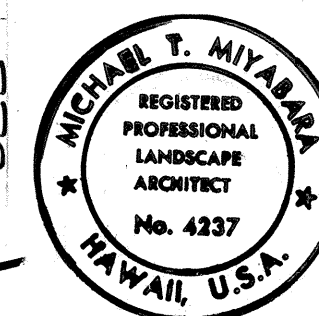
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	85	191



ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

PLAN - 6
SCALE: 1" = 20'



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPING

PLANTING PLAN - 6

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: 1" = 20' DATE: JULY 1988

SHEET No. L19 OF 23 SHEETS

DATE	REVISION
8-20-90	ADD PLTG. AT OFFICE PARKING
7-05-90	ADD ROOT BARRIER

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	86	191

SEE INSET-SHT. L18

10 DELONIX REGIA
TYP. SYMBOL, NEW LOCATIONS
FOR EXISTING TREES

SERVICE ROADWAY

GRASS

GRASS

GRASS

GRASS

3 CARYOTA PLUMOSA

80' MICROSORIUM SCOLOPENDRIA
18' O.C.

3 FELICIUM DECIPENS

TYP. SYMBOL, NEW
LOCATION FOR
EXISTING TREES.

POINCIANA WITH
ROOT BARRIER (TYP.)
3 TOTAL THIS SHT.

GRASS

GRASS

GRASS

GRASS

GRASS

GRASS

GRASS

GRASS

GRASS

GRASS

GRASS

GRASS

PERIMETER ROAD

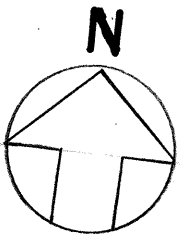
GRASS

LIMIT OF
GRASSING

7 CASSIA JAVANICA X FISTULA
TYP. SYMBOL, NEW LOCATION
FOR EXISTING TREES

SOUTH HALAWA STREAM

GRASS TO EDGE SOUTH
HALAWA STREAM



142
~~145~~ PRITCHARDIA PACIFICA
TYP. SYMBOL

31 FELICIUM DECIPENS
TYP. SYMBOL

PLAN - 7
SCALE: 1" = 20'

RAINBOW SHOWERS WITH
ROOT BARRIER (TYP.)
7 TOTAL, THIS SHT.



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Michael T. Miyahara

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPING

PLANTING PLAN - 7

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: 1" = 20' DATE: JULY 1988
SHEET NO. L200F 23 SHEETS

8-20-90 ADD PLTS. AT OFFICE PARKING
DELETED PLANTER SPACE NEAR FOYER
7-05-90 ADD ROOT BARRIER.

8/25/89 ADDED VENDOR'S ROOM,
DELETE 3-FAN PALMS

DATE

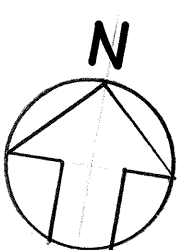
REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	87	191

36 FELICUM DECIPIENS
TYP. SYMBOL

2 FELICUM DECIPIENS
TYP. SYMBOL, NEW
LOCATION FOR
EXISTING TREES

89 PRITCHARDIA PACIFICA
TYP. SYMBOL



MATCH LINE SEE PLAN-6

BANYANS WITH ROOT
BARRIERS (TYP.)
2 TOTAL THIS SHT.

LIMIT OF
GRASSING



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SUPERVISION.

Michael T. Miyama

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPING

PLANTING PLAN - 8

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: 1" = 20' DATE: JULY 1988

SHEET No. L21 OF 23 SHEETS

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

RAINBOW SHOWERS
WITH ROOT BARRIERS.
(TYP.) 5 TOTAL THIS
SHT.

LIMIT OF GRASSING

SOUTH HALAWA STREAM

PERIMETER ROAD

GRASS

5 CASSIA JAVANICA X FISTULA
TYP. SYMBOL, NEW LOCATION
FOR EXISTING TREES

4 FICUS BENJAMINA
TYP. SYMBOL, NEW LOCATION
FOR EXISTING TREES

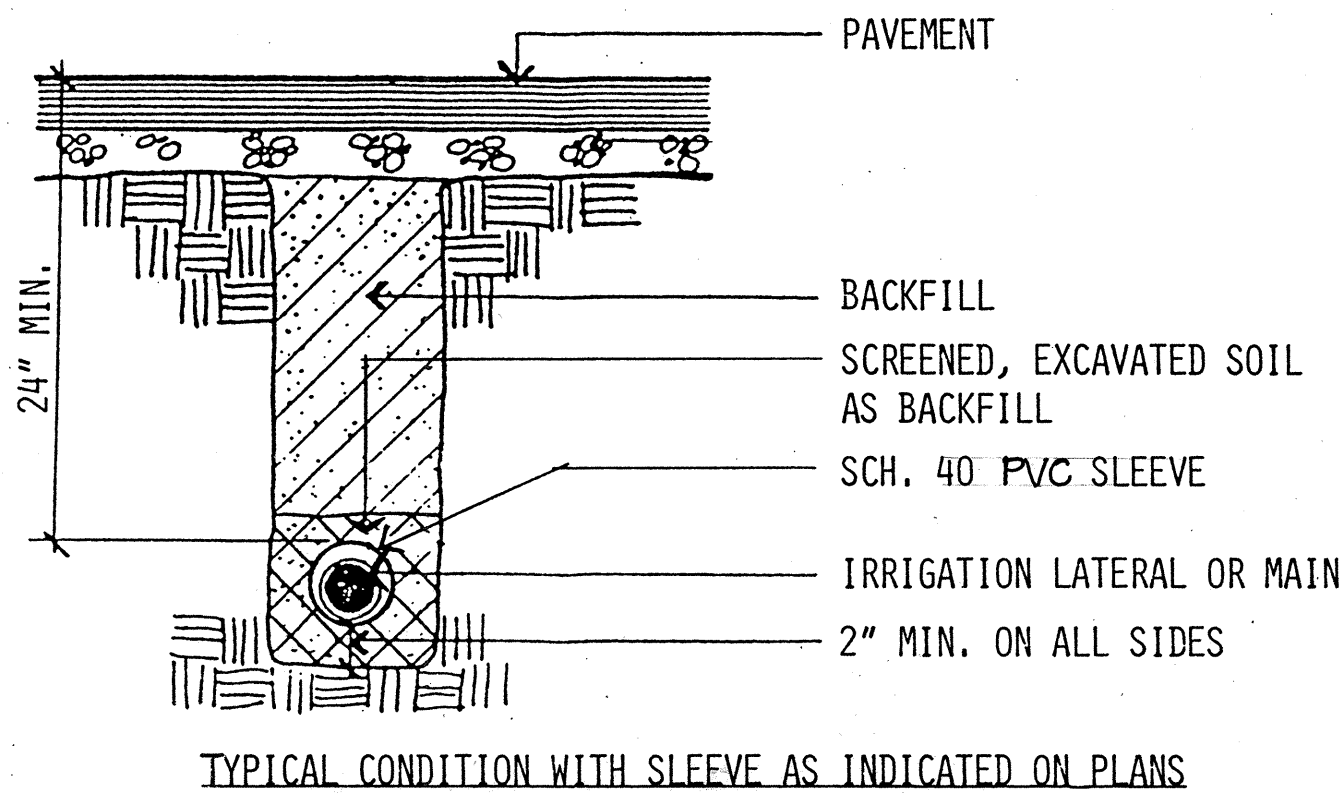
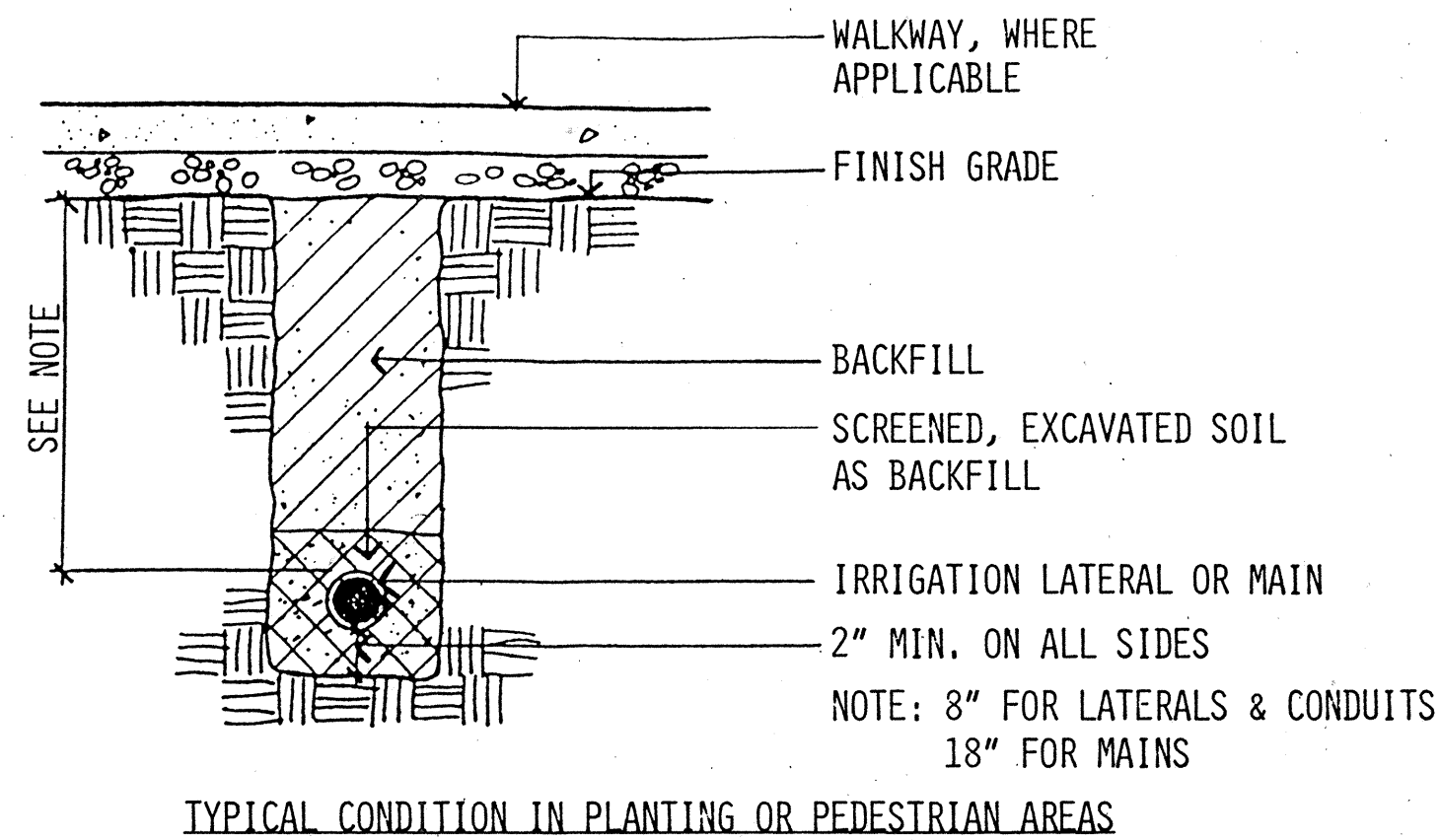
LIMIT OF GRASSING

PLAN - 8
SCALE: 1" = 20'

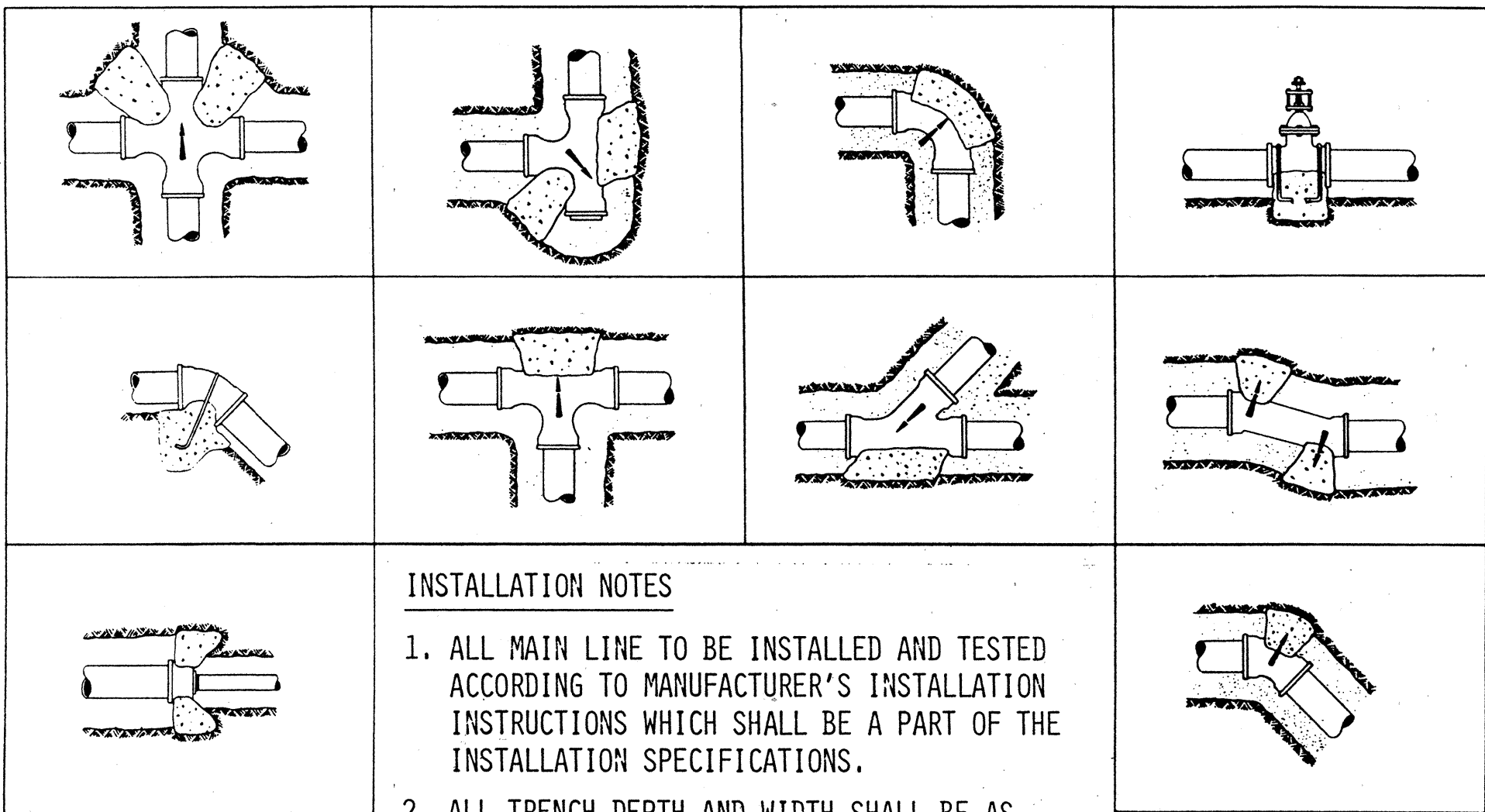
7-5-90
DATE

ADD ROOT BARRIERS
REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3 - I(40)	1989	88	191



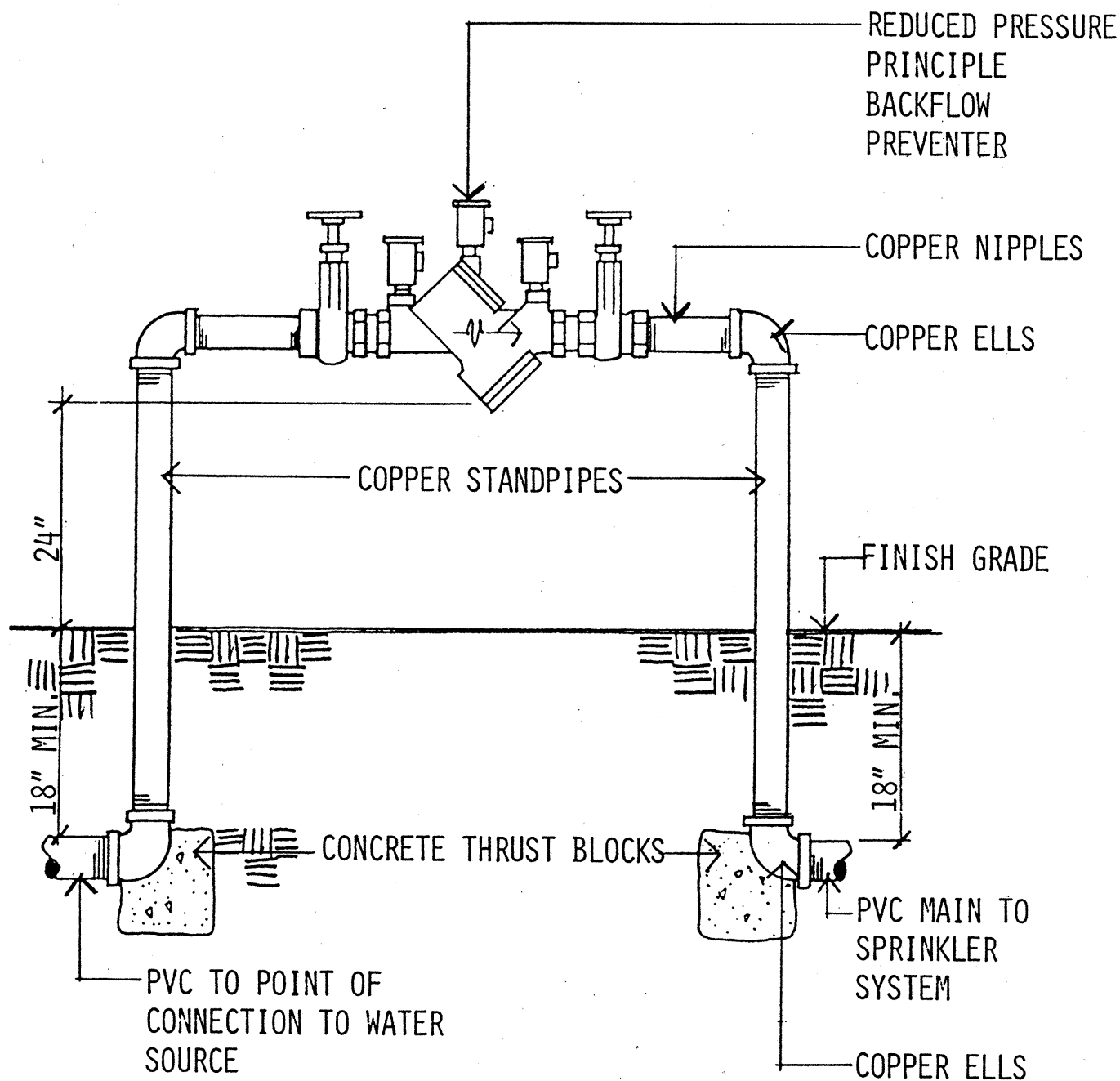
TRENCHING



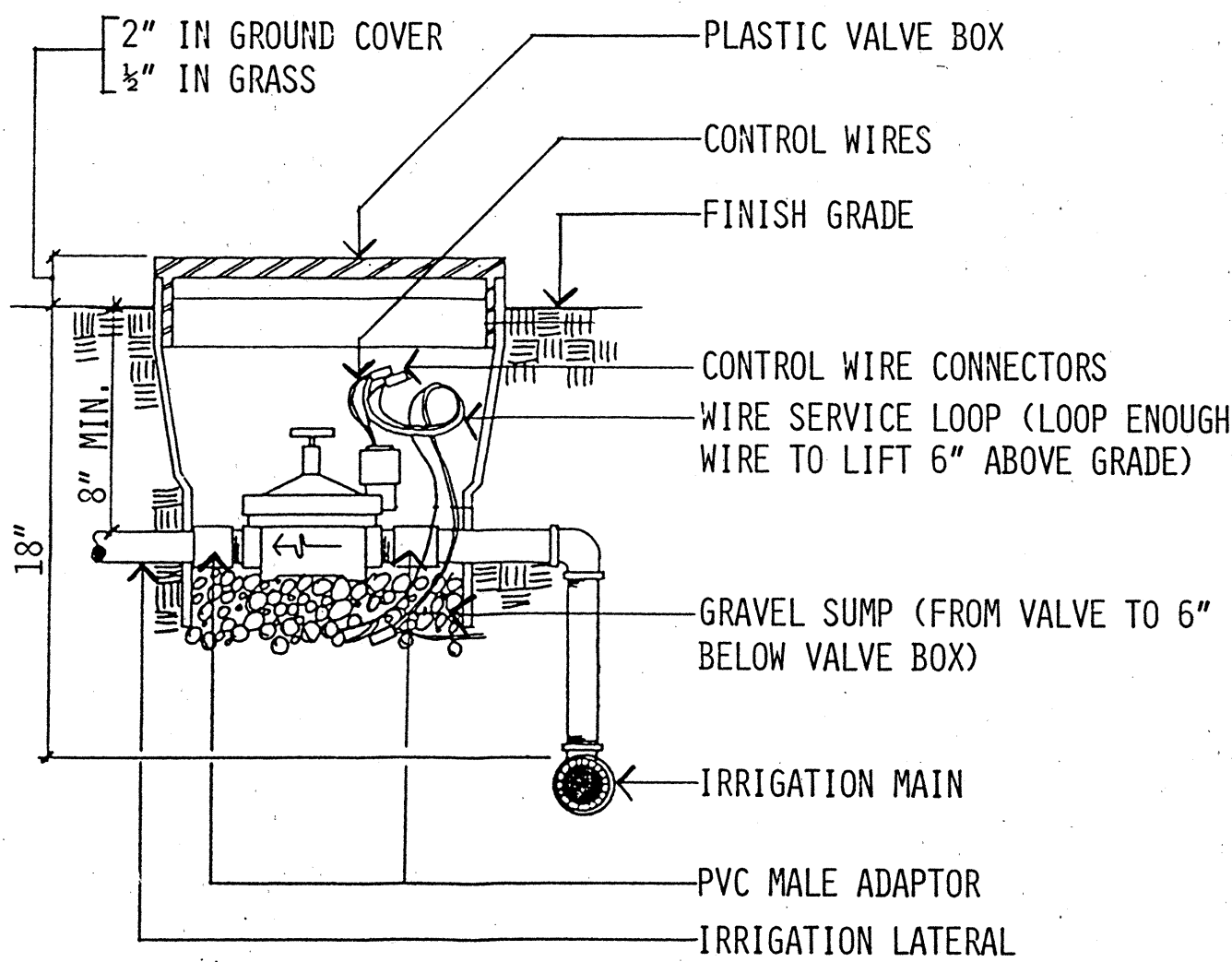
- INSTALLATION NOTES**
1. ALL MAIN LINE TO BE INSTALLED AND TESTED ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS WHICH SHALL BE A PART OF THE INSTALLATION SPECIFICATIONS.
 2. ALL TRENCH DEPTH AND WIDTH SHALL BE AS SHOWN ON THE IRRIGATION PLANS OR DETAILS.

TYPICAL THRUST BLOCK DETAILS FOR BELL & RING PIPE

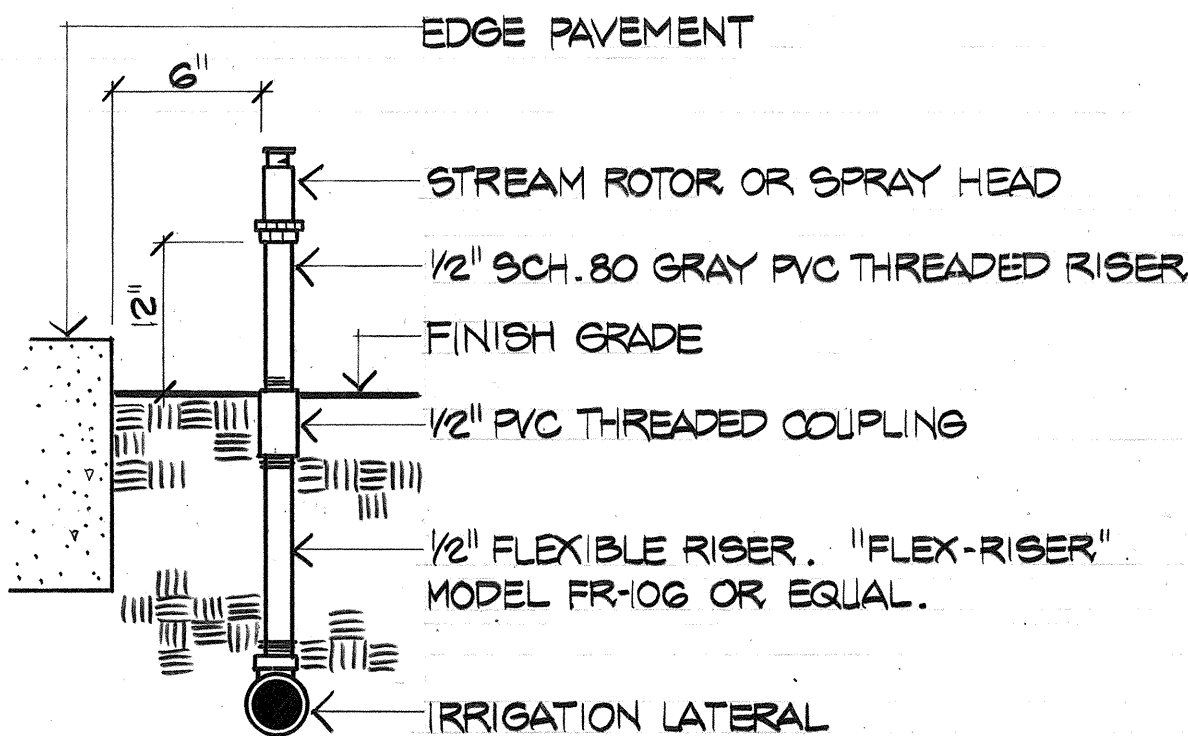
THRUST BLOCKS



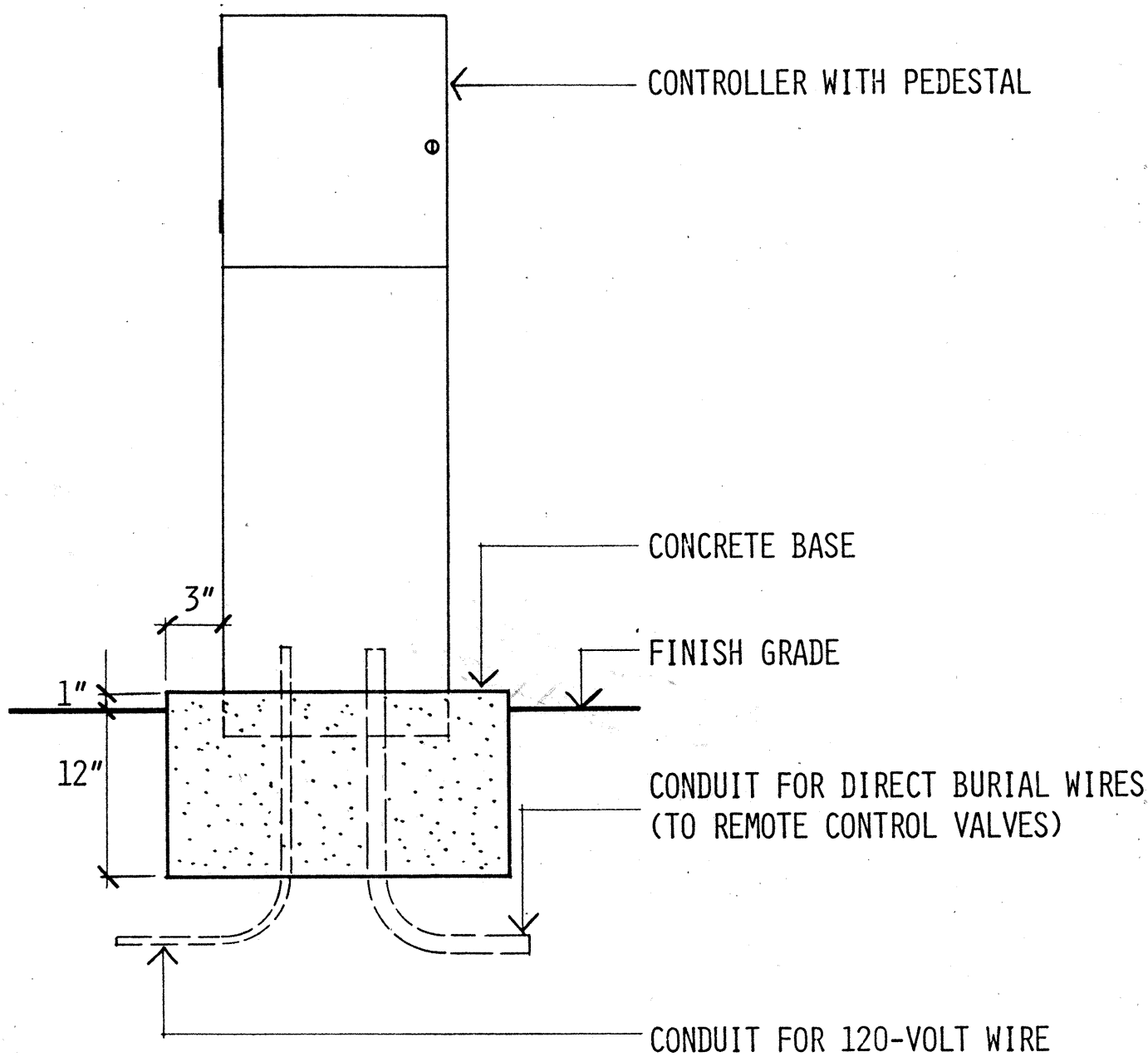
BACKFLOW PREVENTER



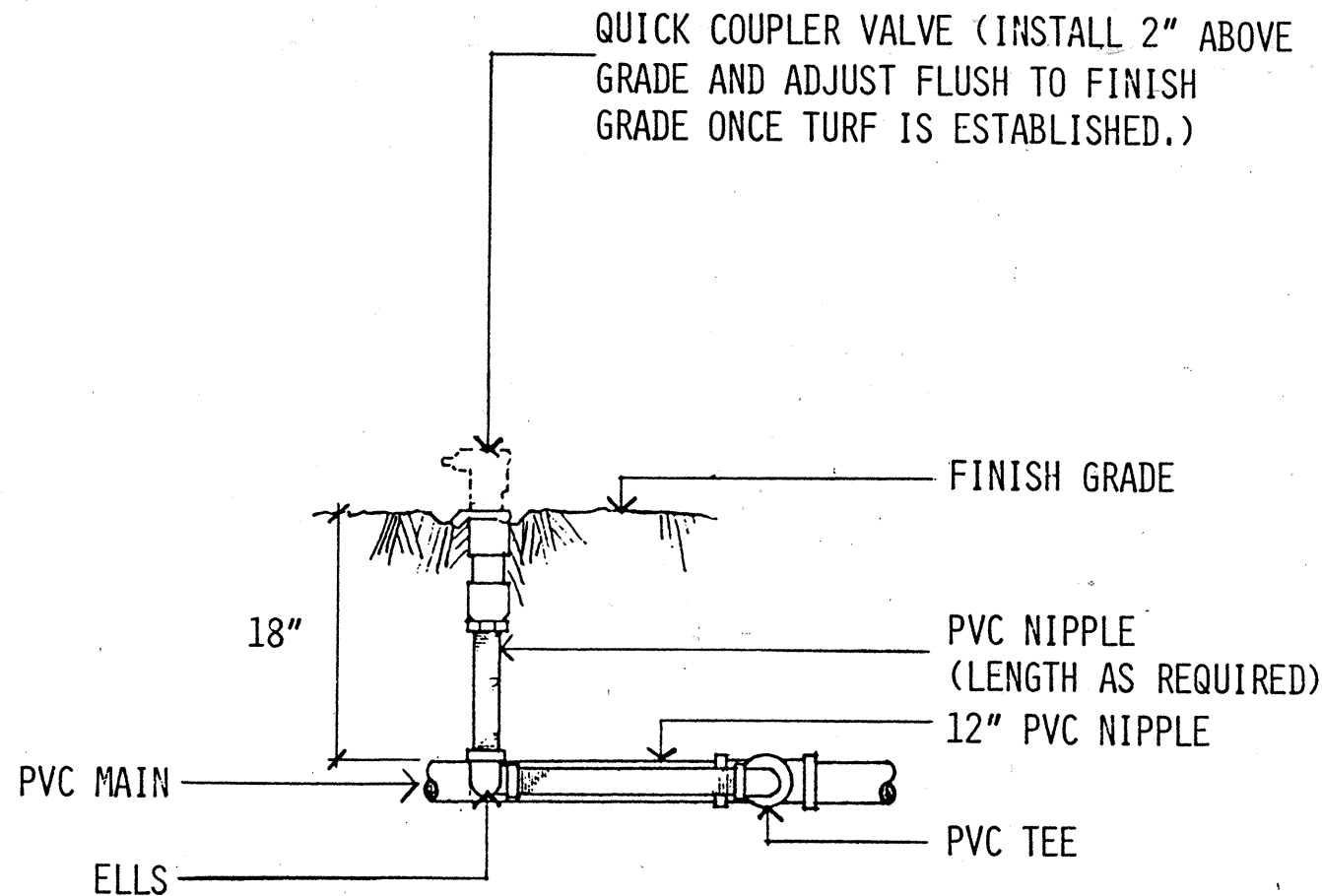
REMOTE CONTROL VALVE



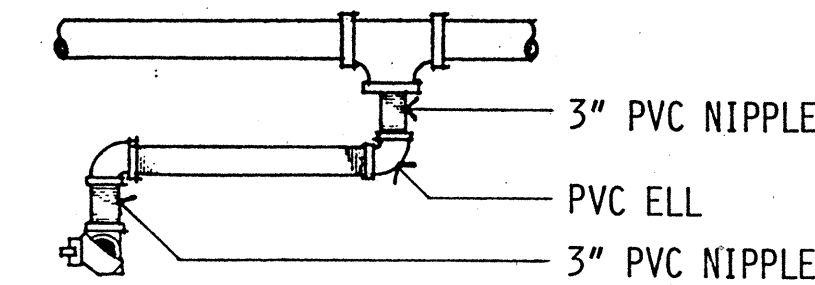
HEAD ON SHRUB RISER



CONTROLLER

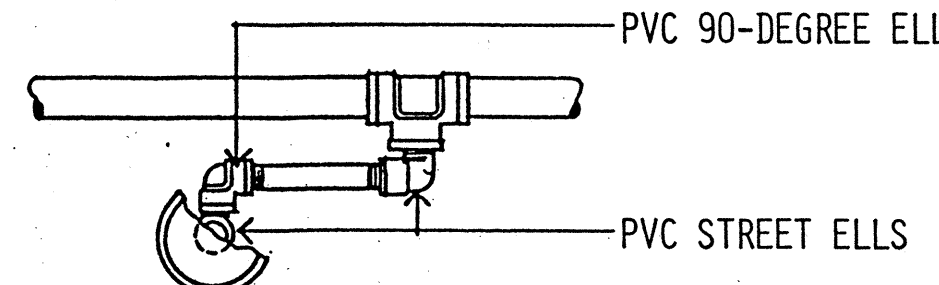
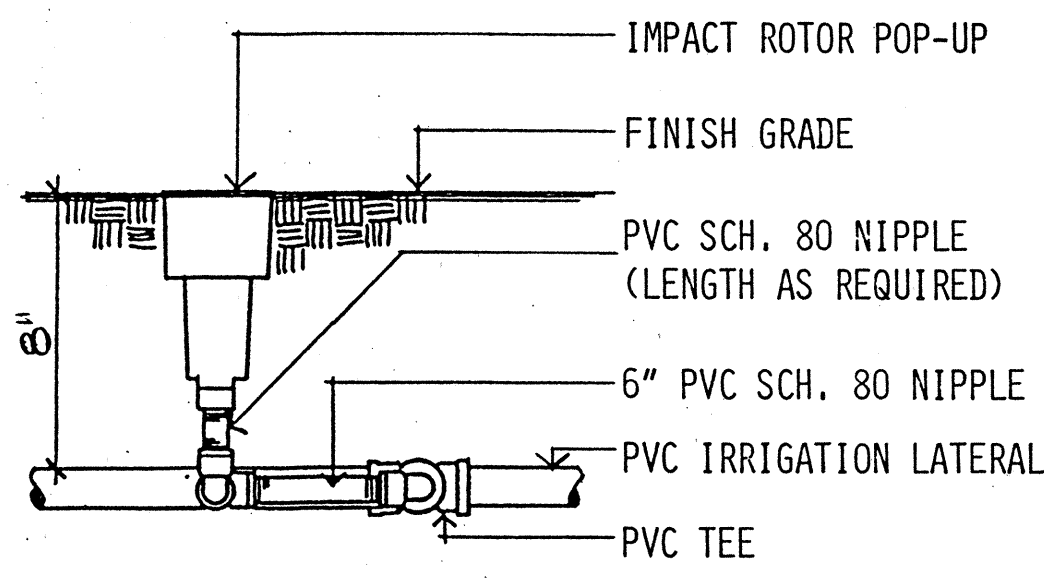


Section



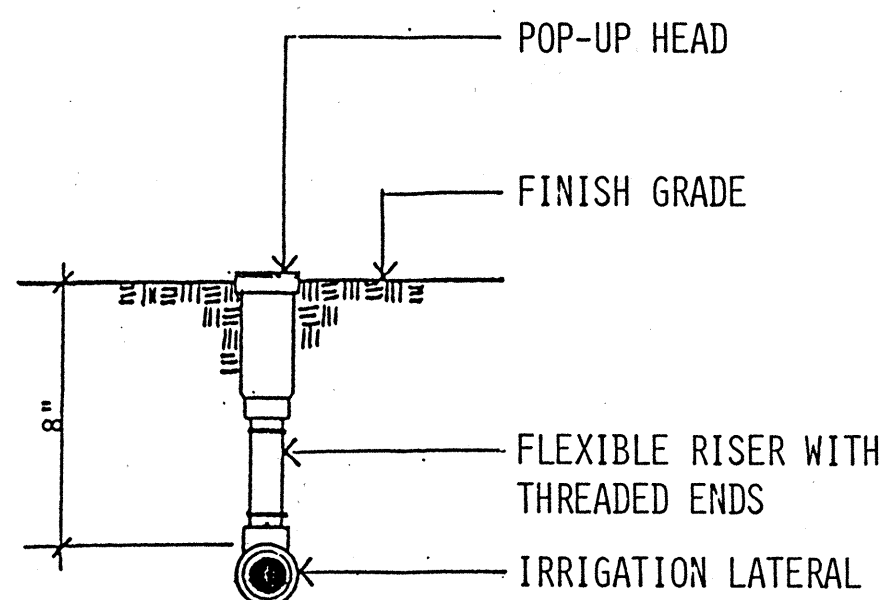
Plan

QUICK COUPLER VALVE



NOTE: COMPACT SOIL AROUND ROTOR POP-UP TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.

IMPACT ROTOR POP-UP



SPRAY POP-UP



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Michael T. Miyake

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

IRRIGATION

IRRIGATION DETAILS

INTERSTATE ROUTE H-3
PROJECT NO. I-H3 - I(40)

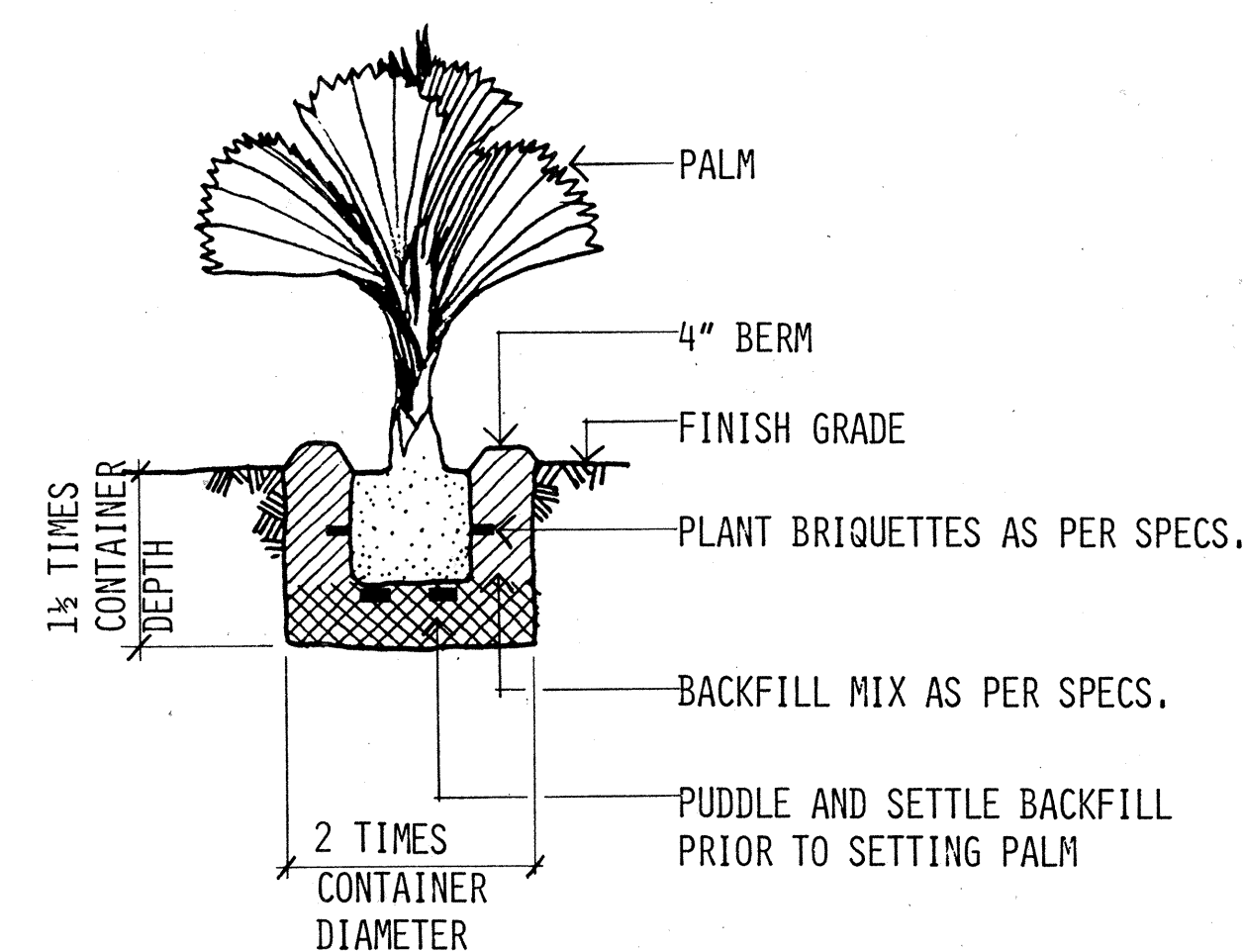
SCALE: NONE DATE: JULY 1988

SHEET No.122 OF 23 SHEETS

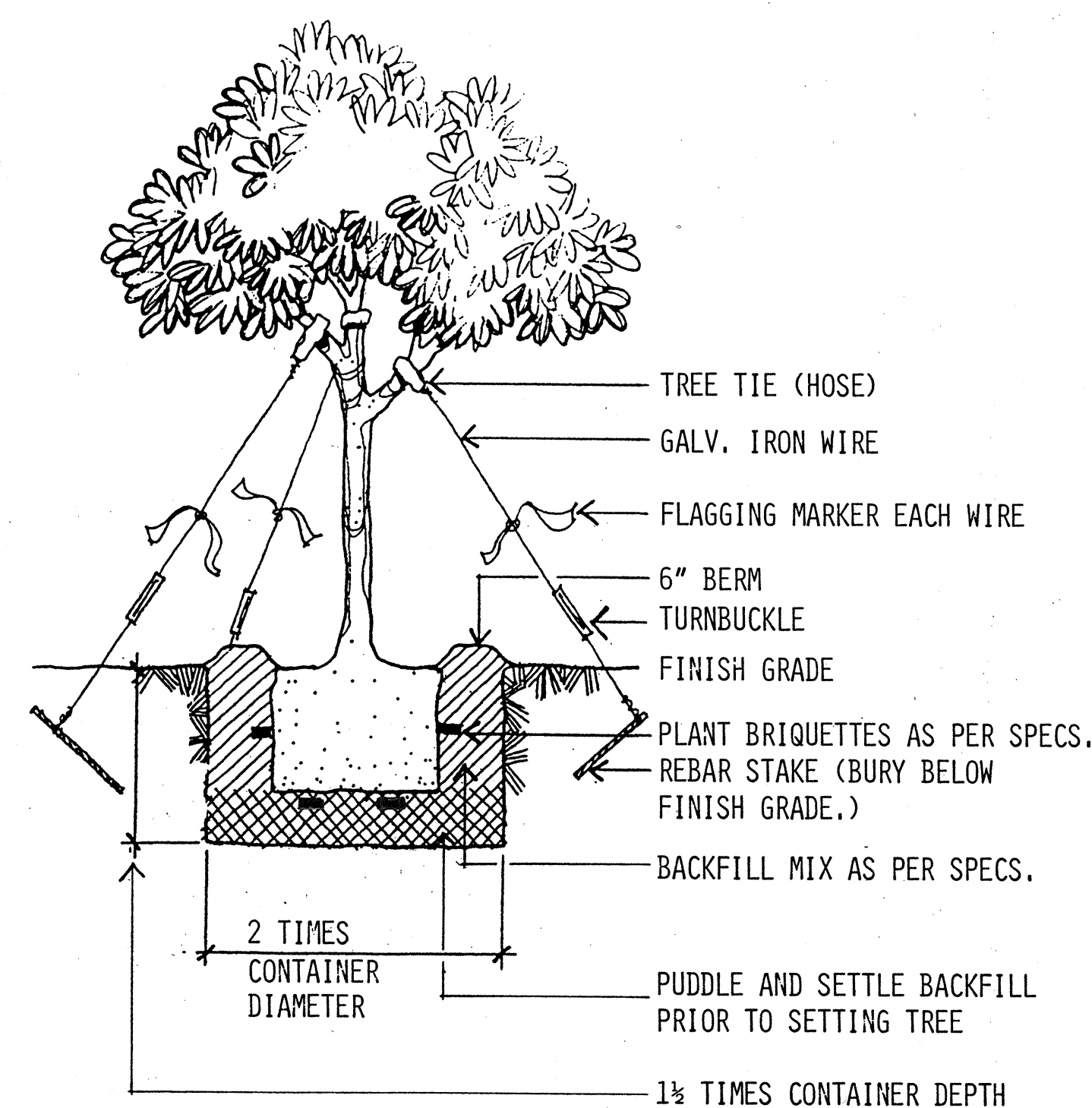
DATE

REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	89	191



PALM PLANTING
NOT TO SCALE



GUY WIRE SIZES:

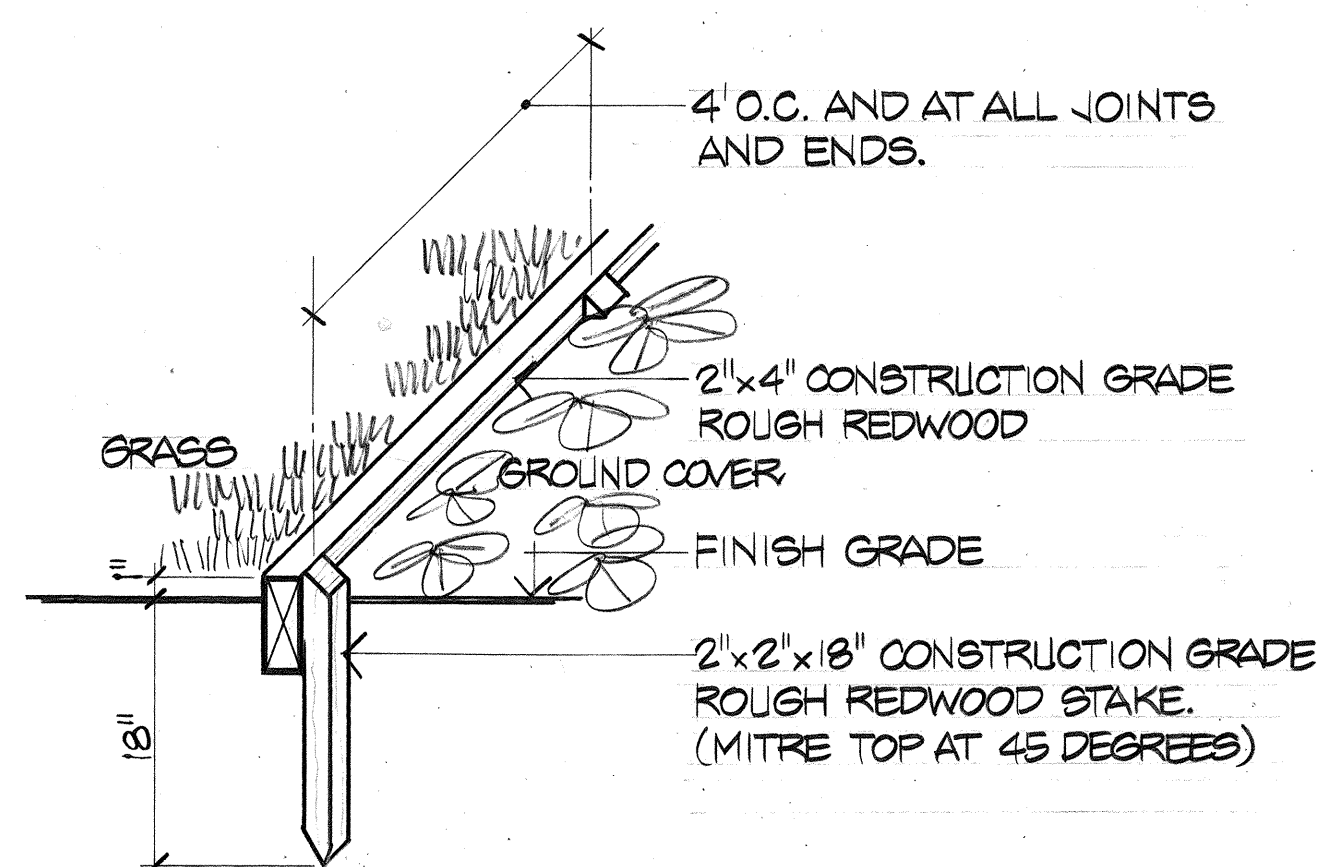
#12 FOR 15 & 25 GAL. TREES
#9 FOR RELOCATED TREES

REBAR STAKE SIZES:

#4x2'-0" FOR 15 & 25 GAL. TREES
#7x3'-0" FOR RELOCATED TREES

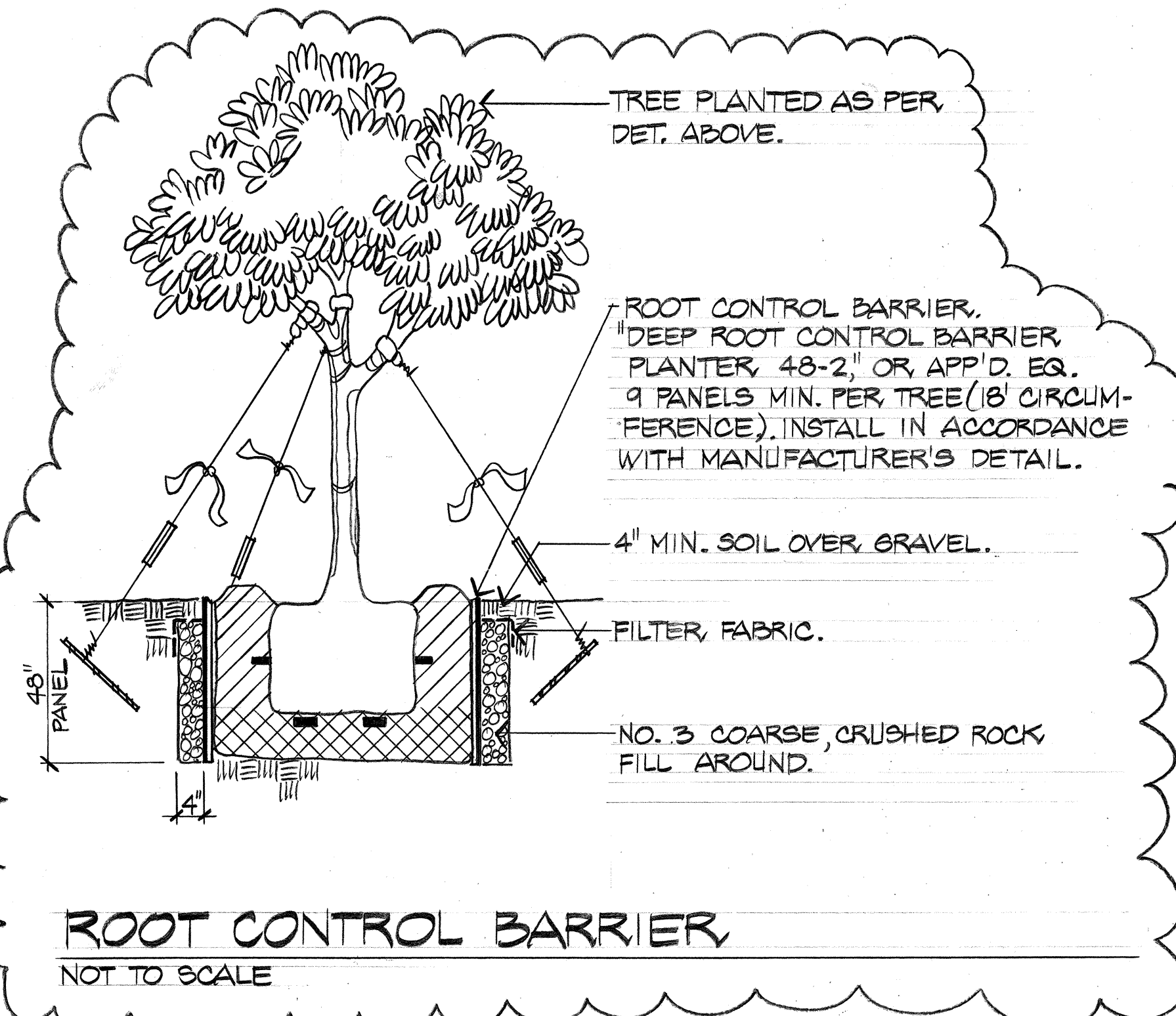
NOTE: TURNBUCKLE EACH WIRE FOR FIELD STOCK OR RELOCATED TREES ONLY.

RELOCATED TREE/PALM PLANTING
NOT TO SCALE

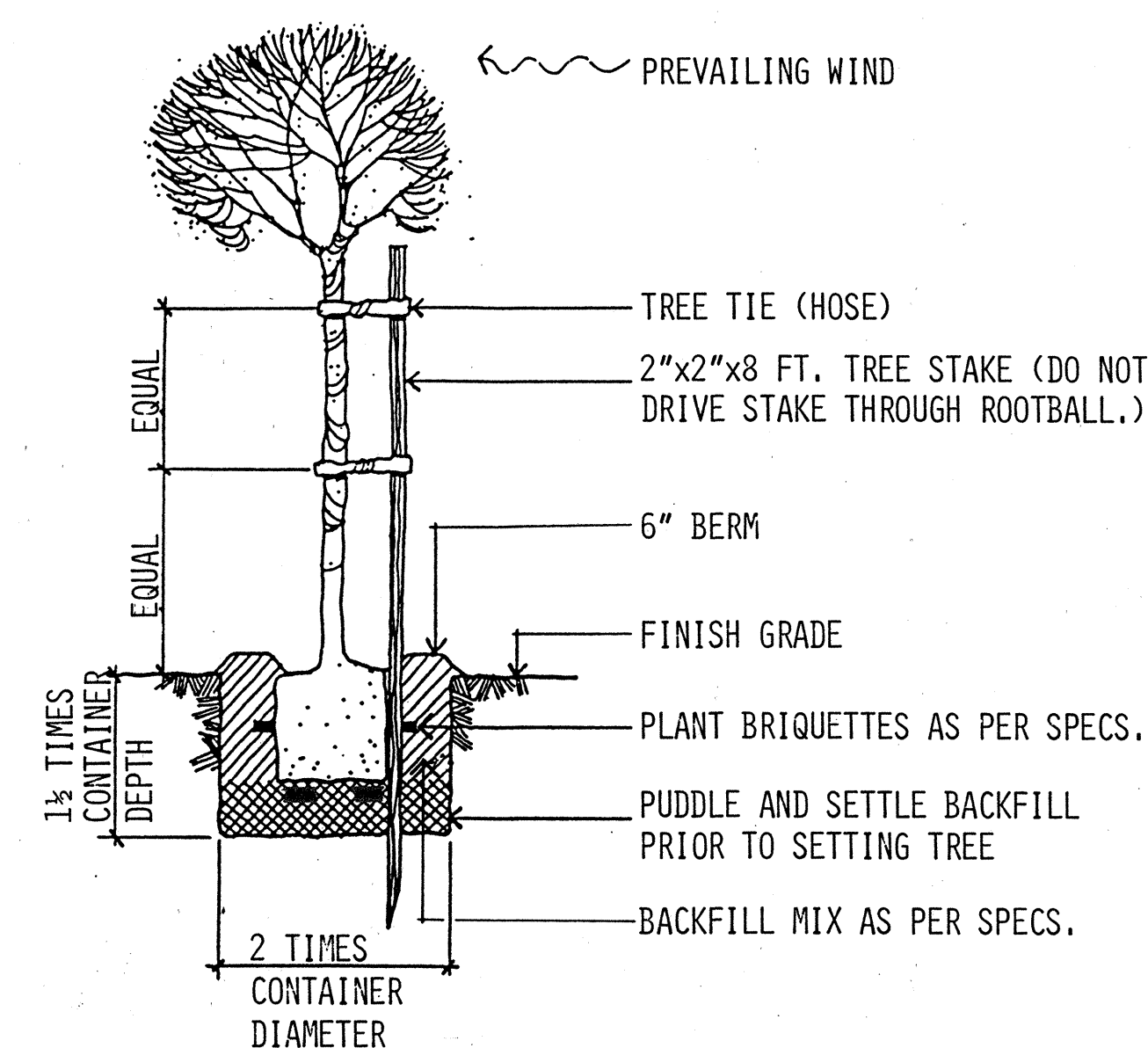


NOTE: WHERE JOINTS ARE REQUIRED, SPLICE WITH 1"x4" BOARD, OVERLAPPING 12" MINIMUM EACH SIDE.

REDWOOD HEADER
NOT TO SCALE



ROOT CONTROL BARRIER
NOT TO SCALE



TREE PLANTING

NOT TO SCALE

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



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BY ME OR UNDER
MY SUPERVISION.

Richard M. Nye

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPING

PLANTING DETAILS

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: NONE DATE: JULY 1988

SHEET No.L23 OF 23 SHEETS

7-05-90	ADD ROOT BARRIER.
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DATE	REVISION
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