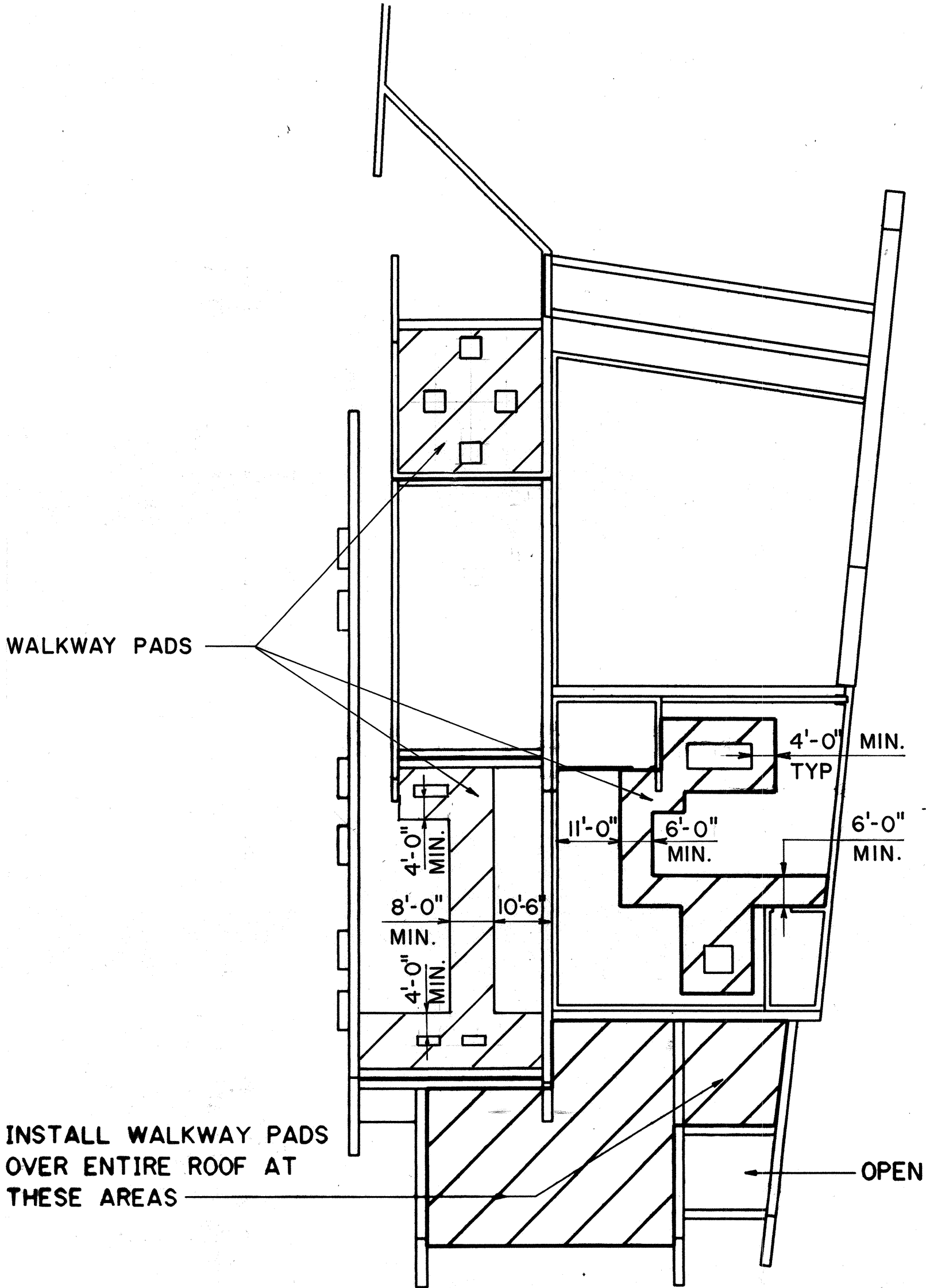


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	269	353

- NOTES:
1. INSTALL WALKWAY PADS WITH A MINIMUM WIDTH OF WALKWAY OF 4'.
 2. INSTALL AREAS OF WALKWAY PADS WITH WIDTHS GREATER THAN 4', AS SHOWN.

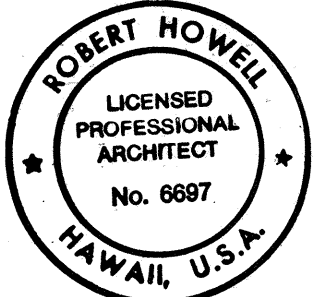
LEGEND



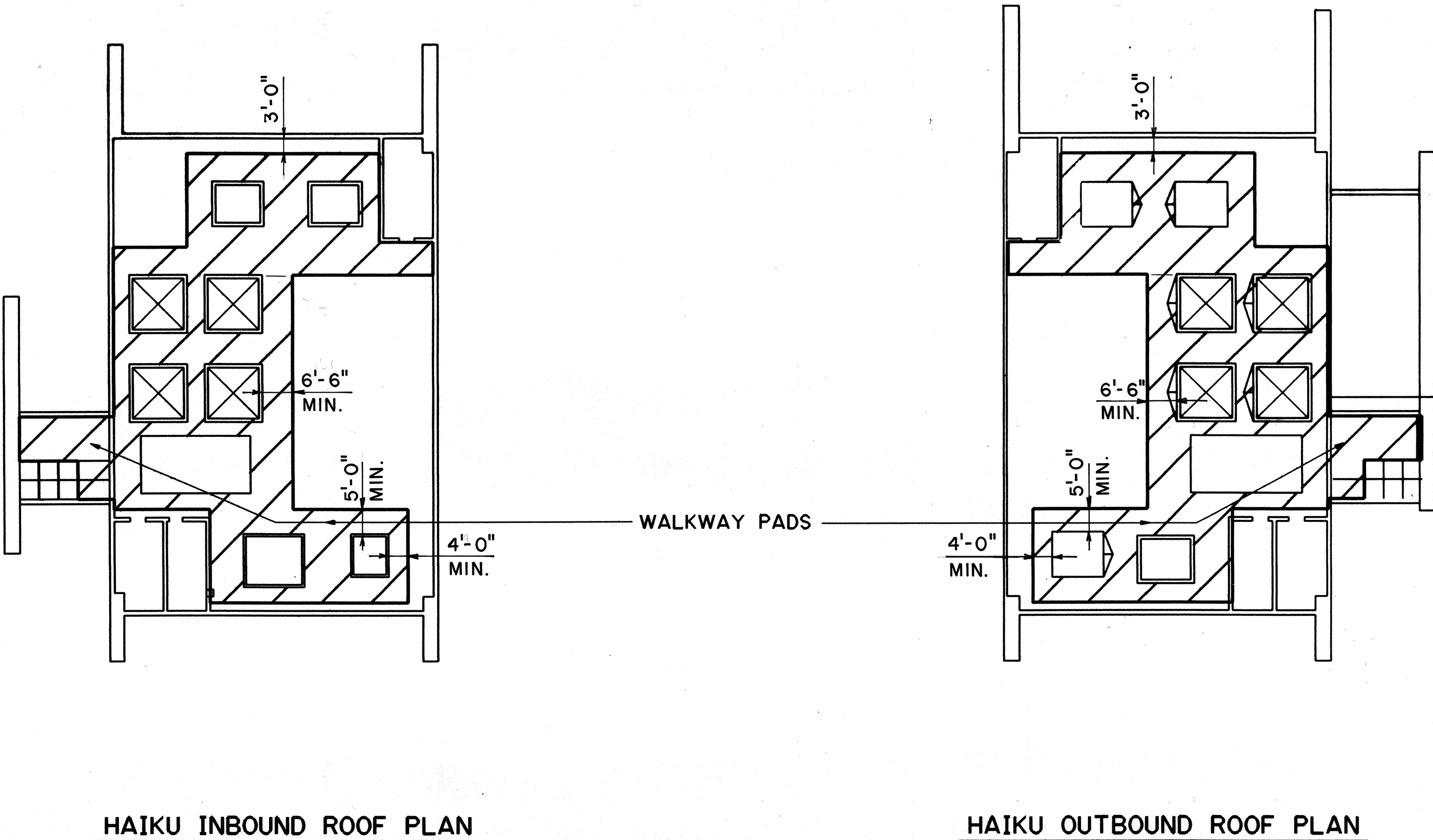
CONTROL BUILDING/TRAFFIC OPERATIONS CENTER

FOR DETAIL AS-BUILT INFORMATION
REFER TO CONSTRUCTION SUBMITTALS

10/13/95	ADDENDUM 1
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION ROOF WALKWAYS COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL/ACCESS ROADS SCALE: 1" = 20' DATE: JUN 1995	
SHEET NO. 7A1	OF 5 SHEETS

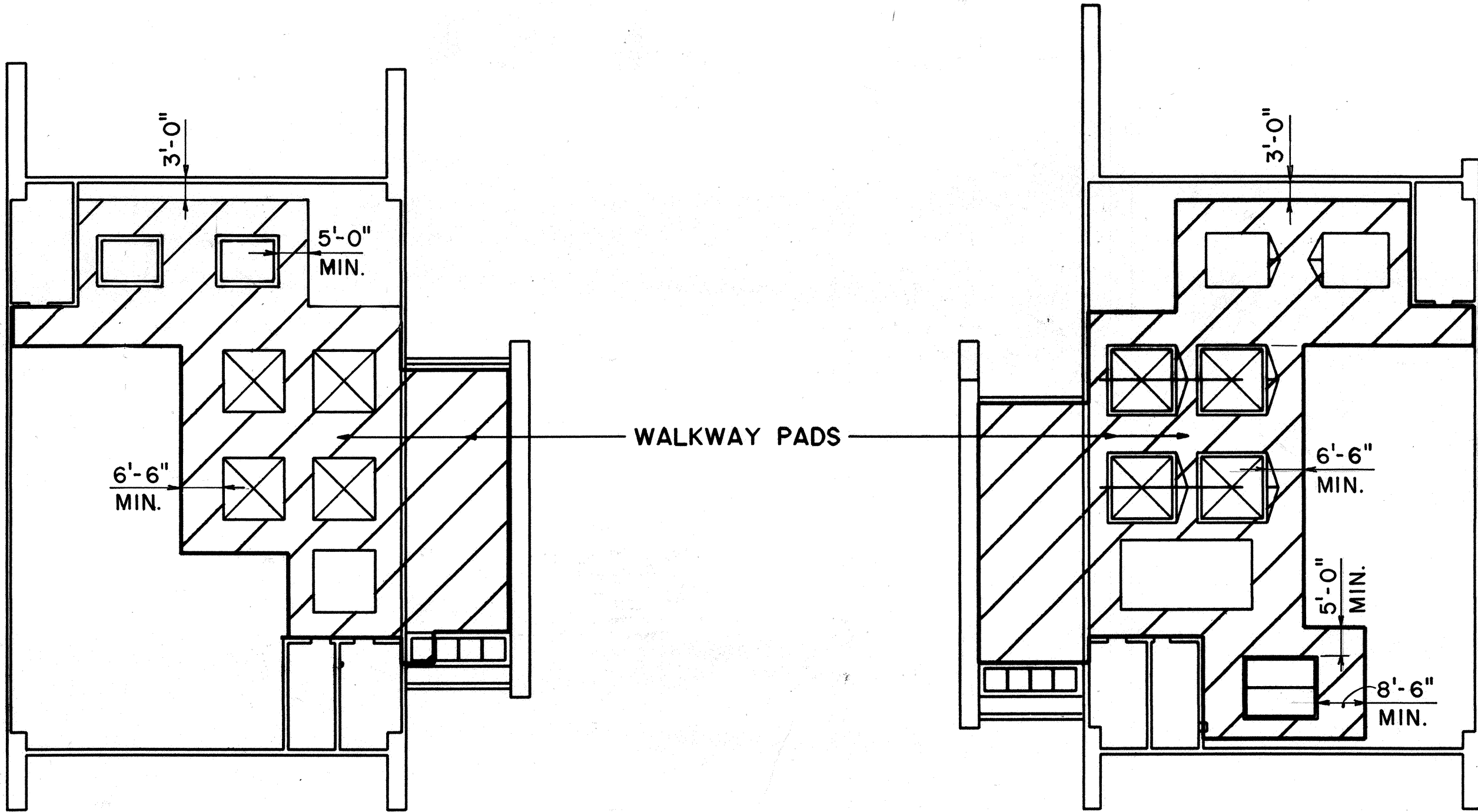


THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Robert Howell



HAIKU INBOUND ROOF PLAN

HAIKU OUTBOUND ROOF PLAN

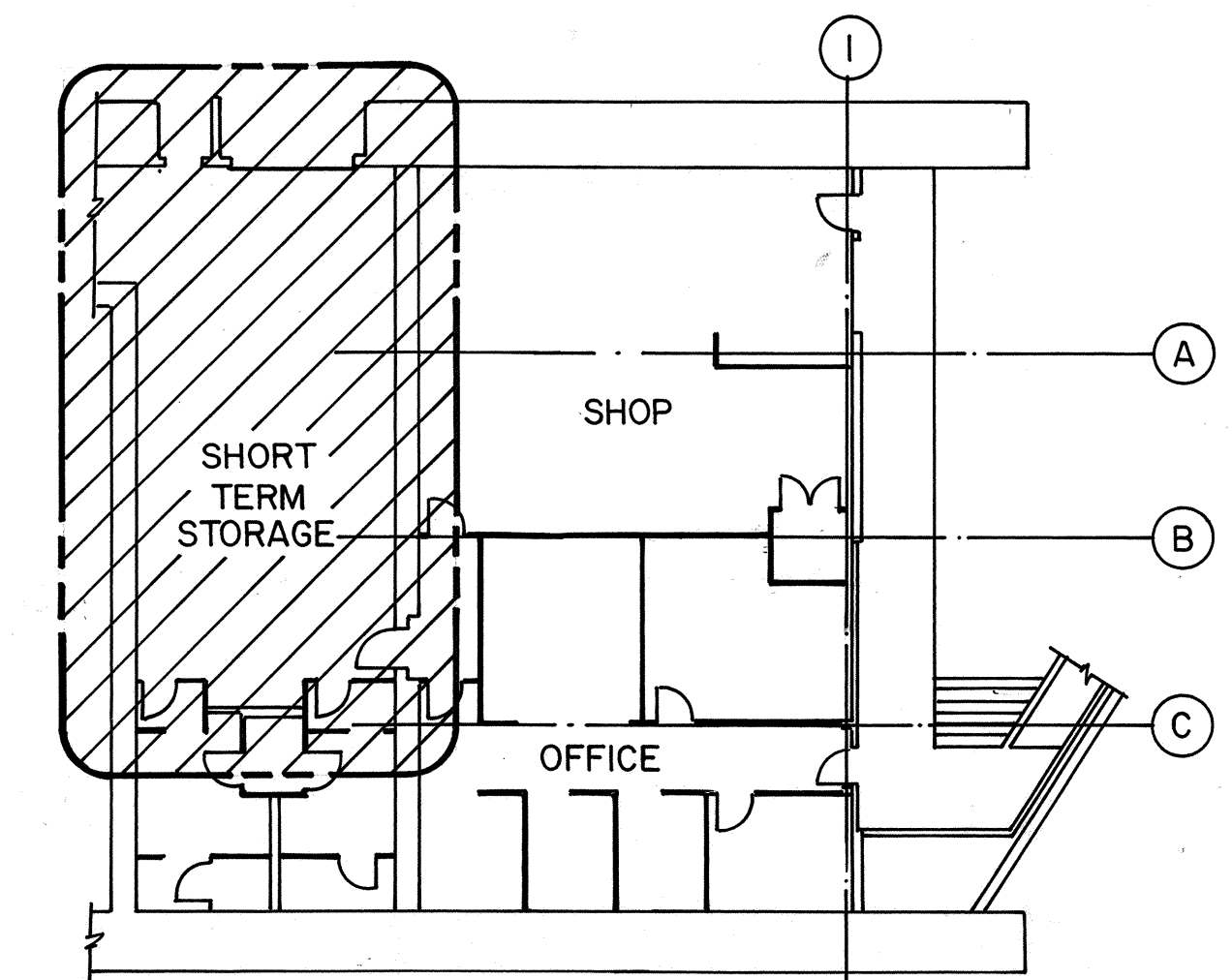


HALAWA INBOUND ROOF PLAN

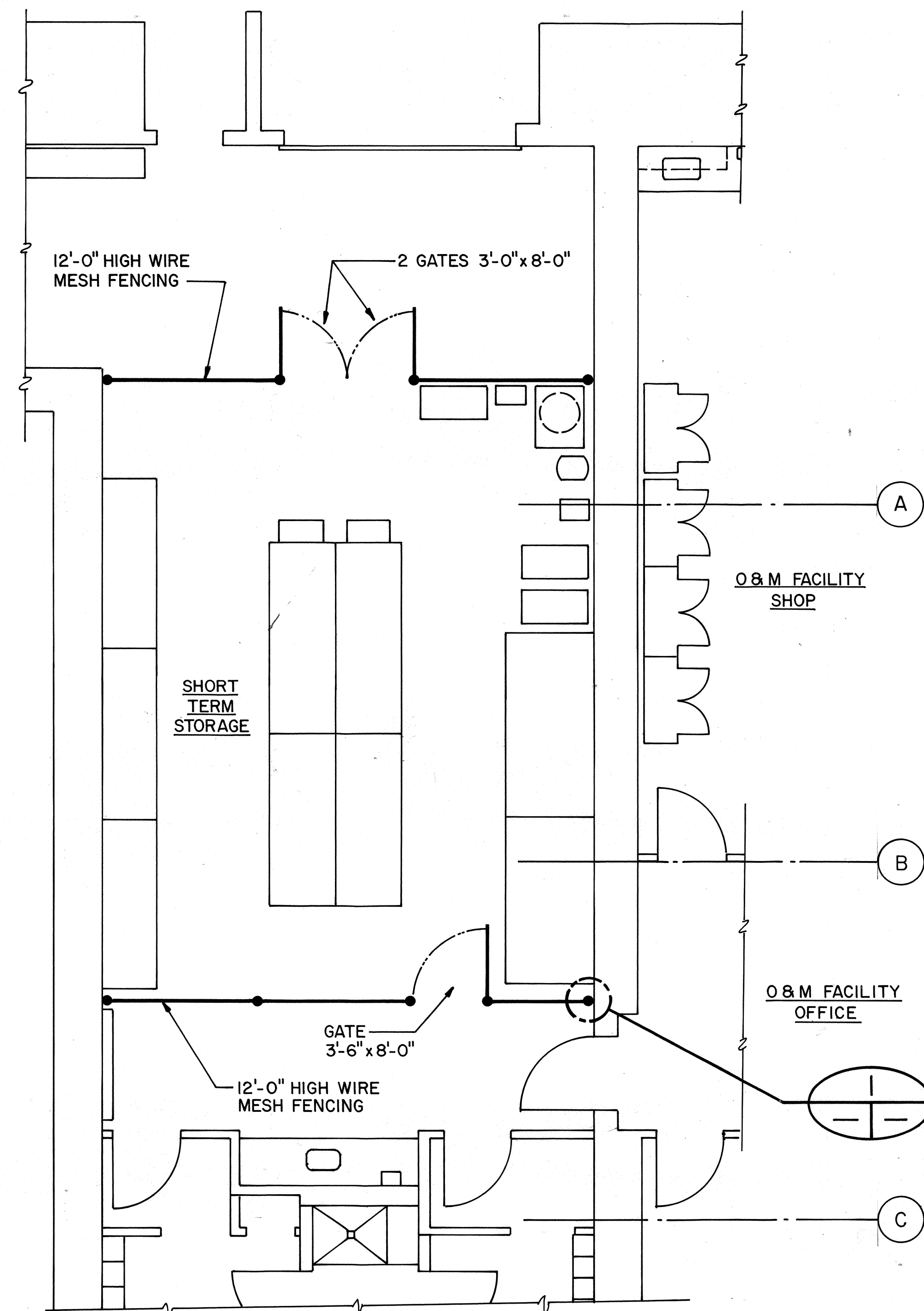
HALAWA OUTBOUND ROOF PLAN

ORIGINAL PLAN	DATE
NOTE BOOK	NOV 94
NO.	NOV 94
	DEC 94
SURVEY PLOTTED BY	B. BUNYI
DESIGNED BY	C. FREY
QUANTITIES BY	B. HOWELL
CHECKED BY	

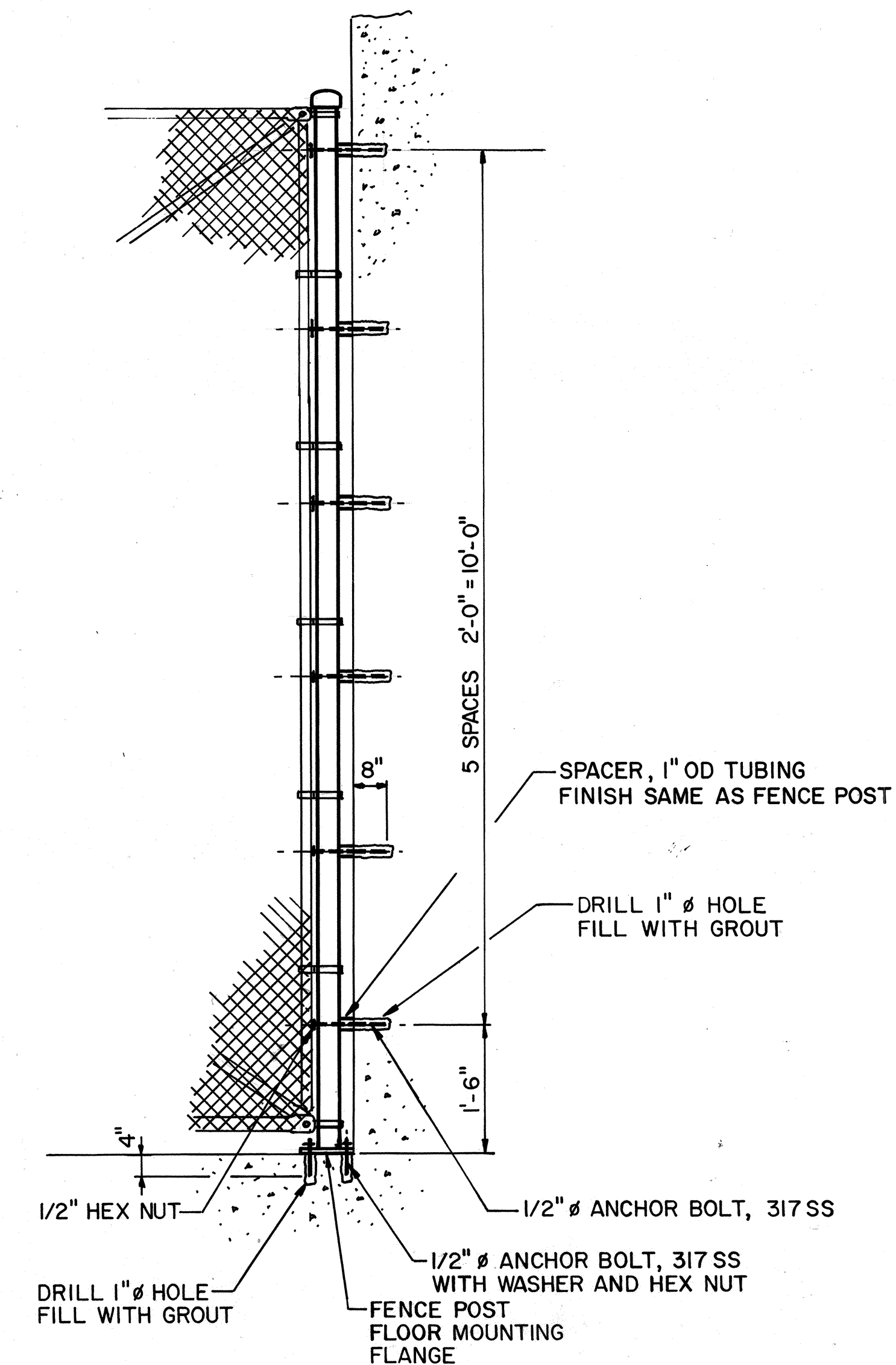
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	270	353



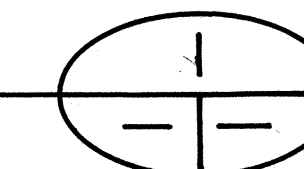
KEY PLAN
HAIKU OB PORTAL BUILDING
LEVEL A



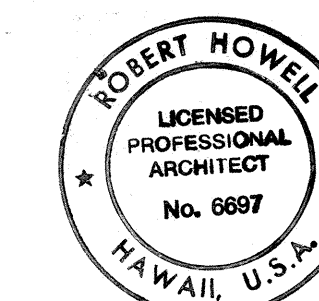
HAIKU OB PORTAL BUILDING
LEVEL A PARTIAL PLAN
SCALE: 1/4" = 1'-0"



DETAIL
NO SCALE



GRAPHIC SCALE
1' 0' 3' 5' 10'
1/4" = 1'-0"



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Robert Howell

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

STORAGE ROOM SECURITY

FENCE

COMMON WORK

H-3 FINISH (UNIT III)

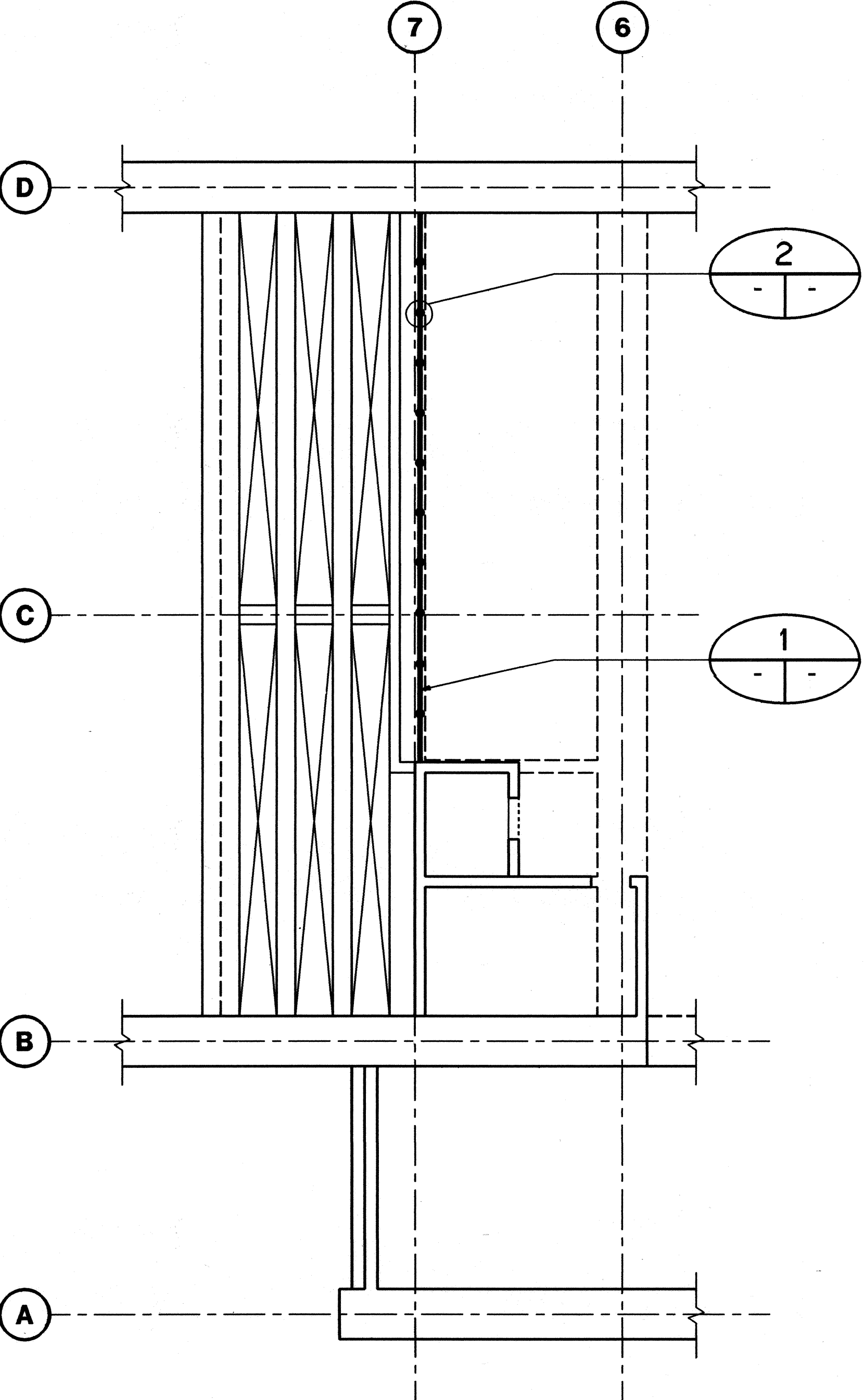
FAIP NO. I-H3-I(75), UNIT III

T.K. TUNNEL/ACCESS ROADS

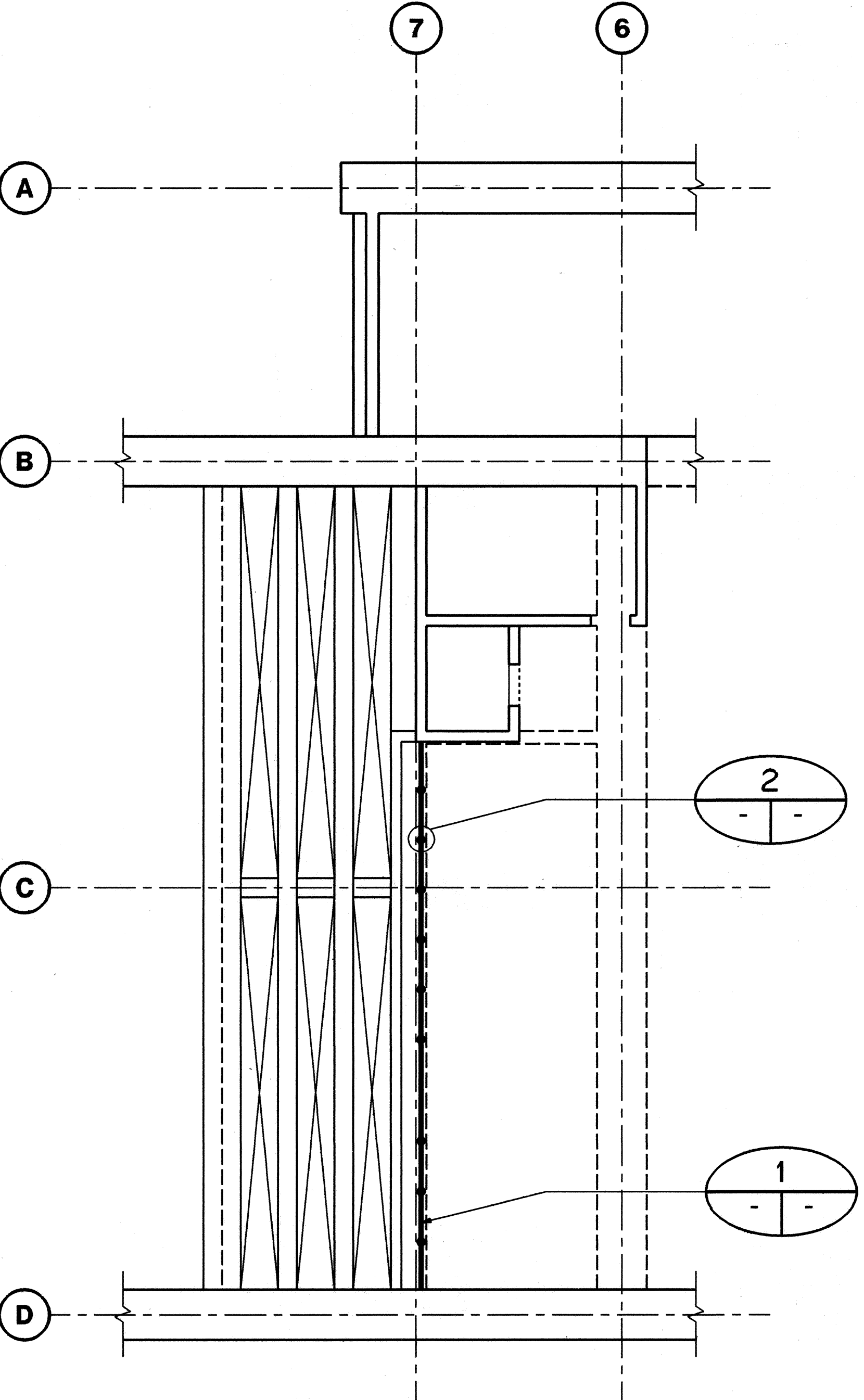
SCALE: AS NOTED DATE: JUN 1995

SHEET NO. 7A2 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	271	353

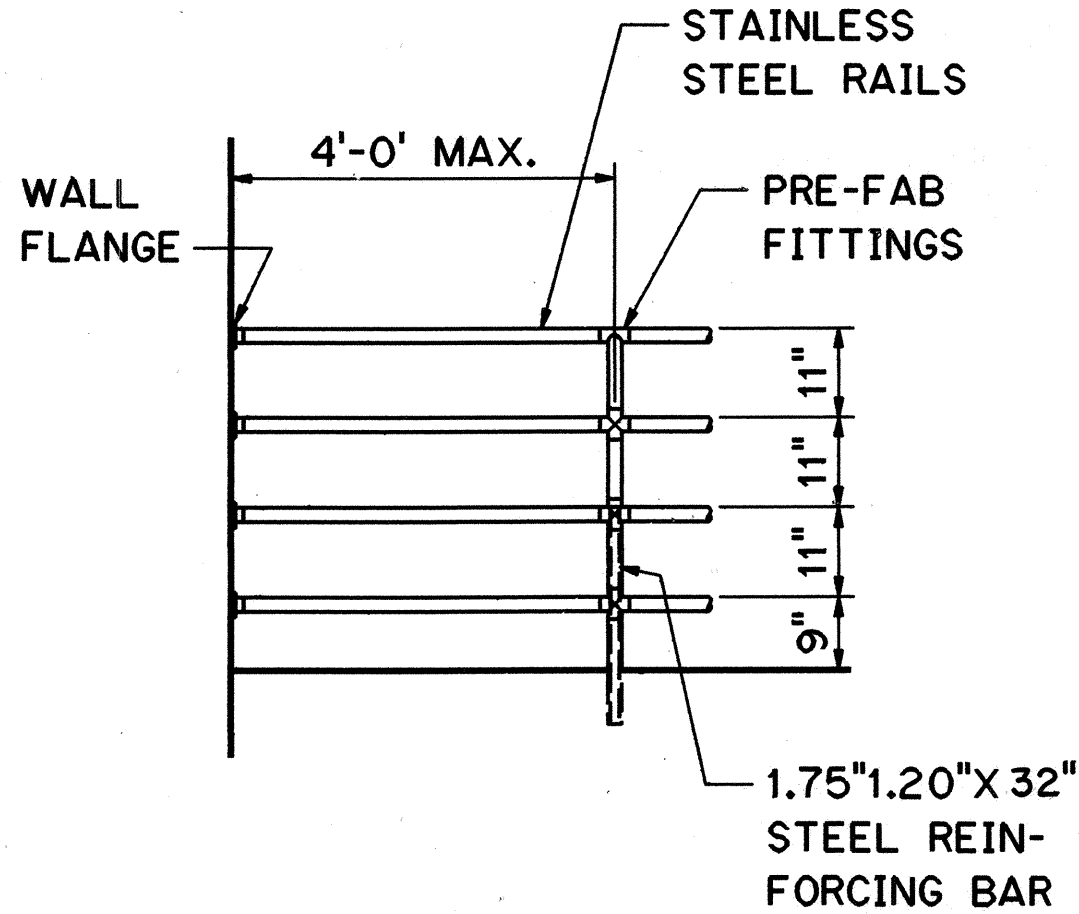


HALAWA IB PORTAL BUILDING

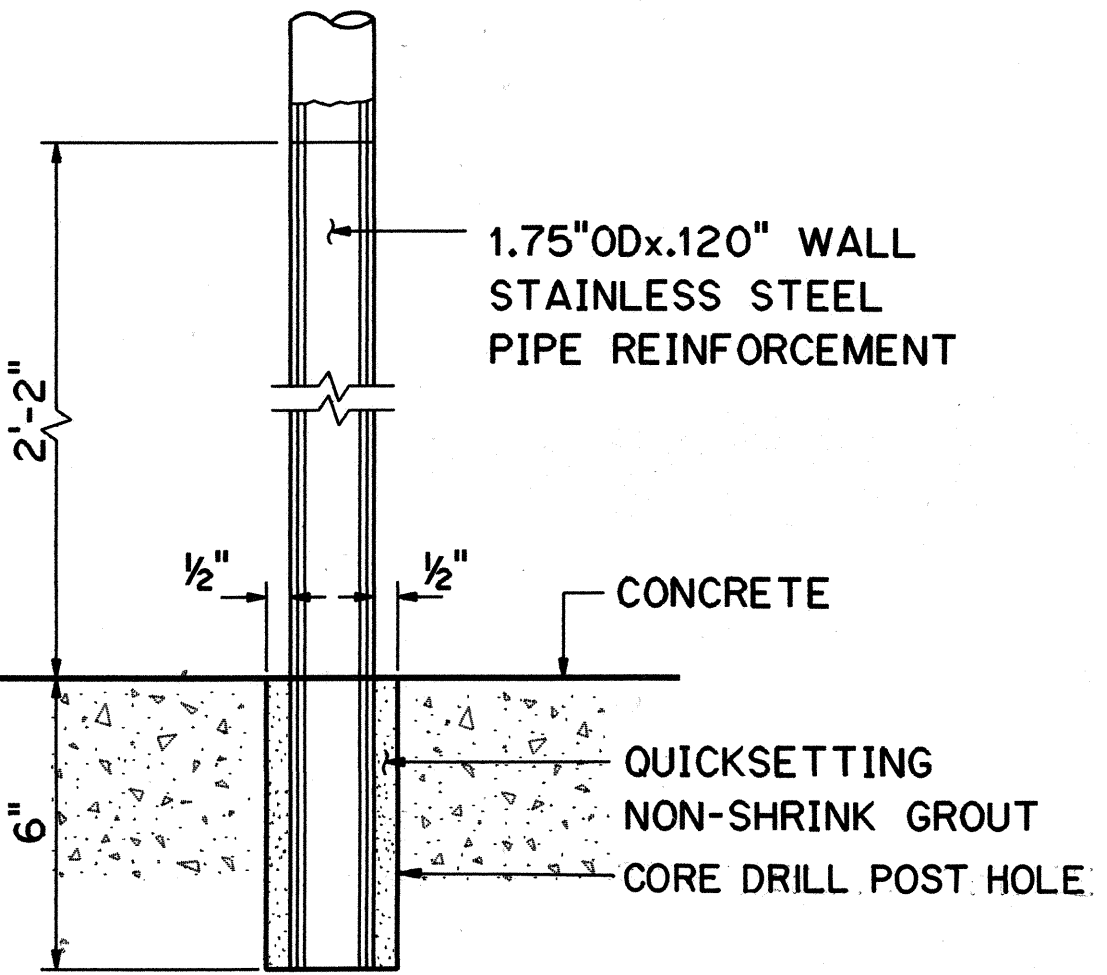


HALAWA OB PORTAL BUILDING

LEVEL 3 PLANS
SCALE: 1/8"=1'-0"

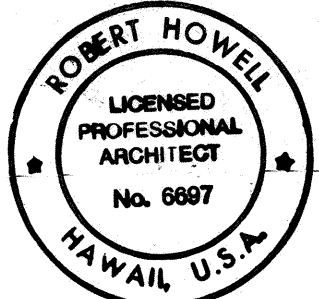
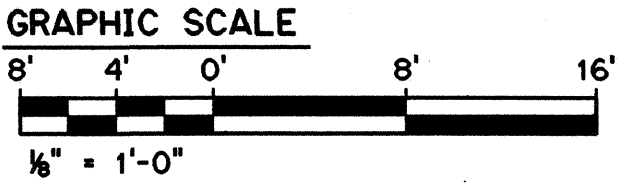


TYPICAL RAIL
SCALE: 1/2"=1'-0"



TYPICAL POST
SCALE: 1/2"=1'-0"

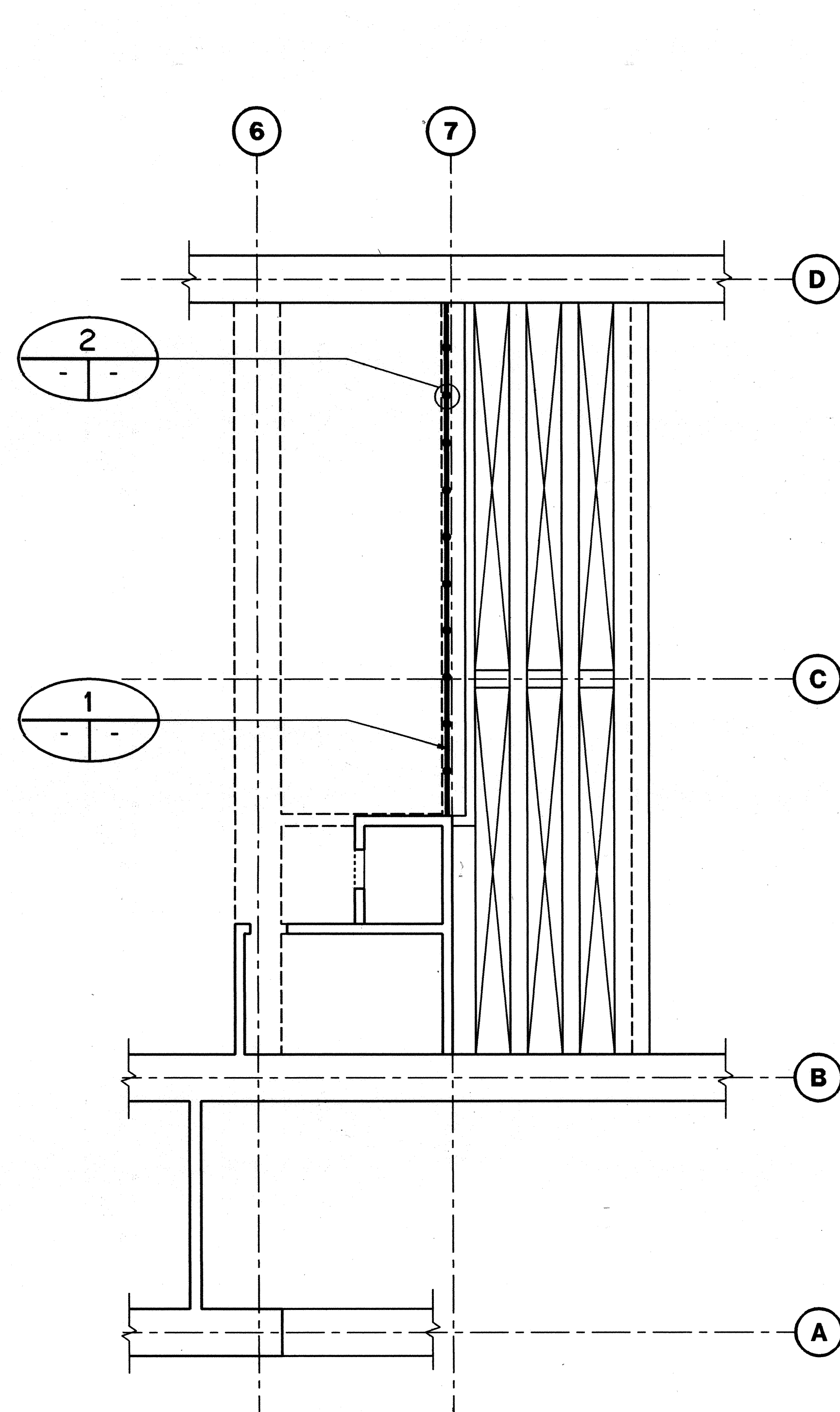
ORIGINAL PLAN	DATE
NO.	
DESIGNED BY	
CHECKED BY	
NOTED BY	
DATE	



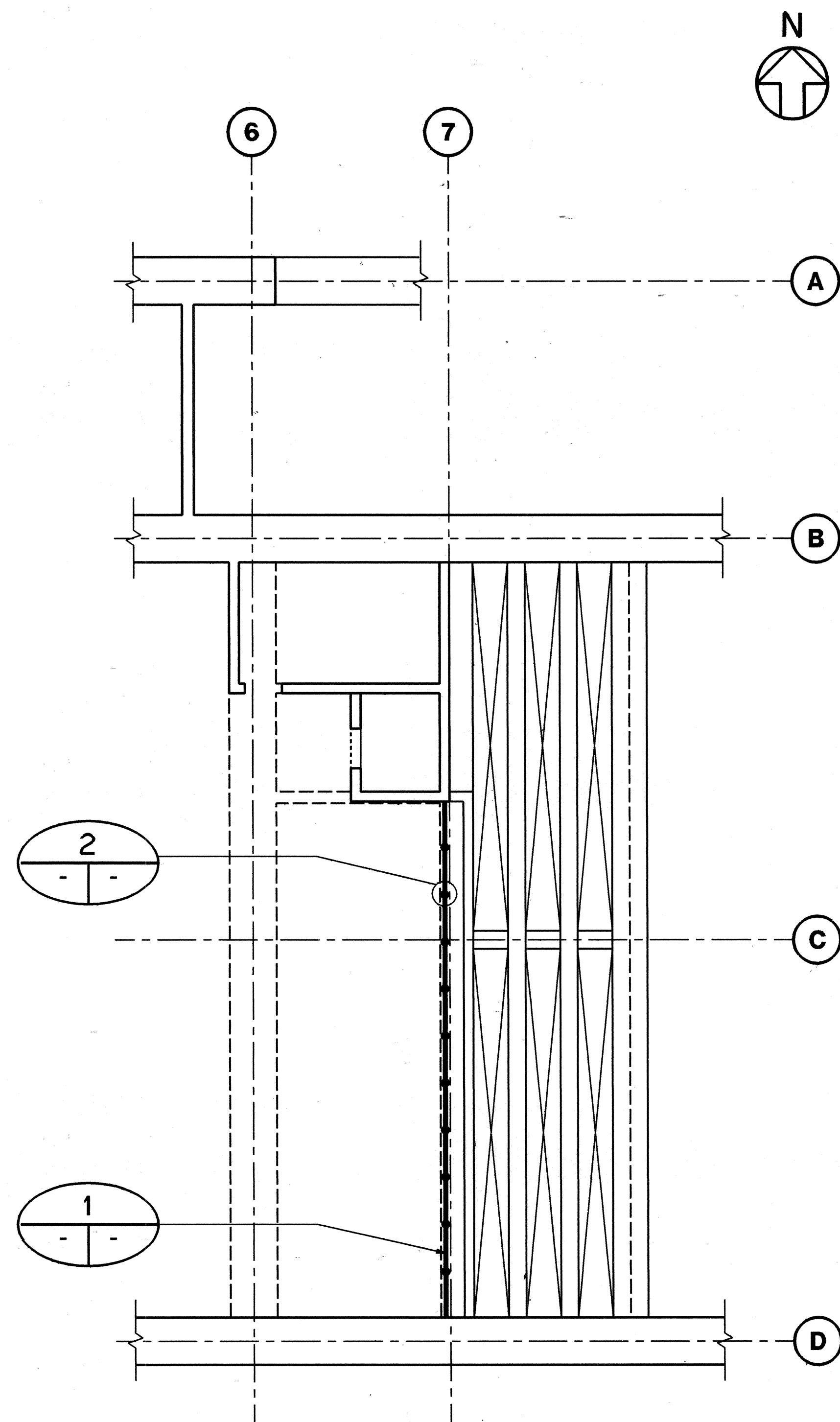
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Robert Howell

10/13/95	ADDENDUM I
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
RAILINGS AND DETAILS-1	
COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL/ACCESS ROADS	
SCALE: NONE	DATE: JUN 1995
SHEET NO. 7A3	OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	272	353

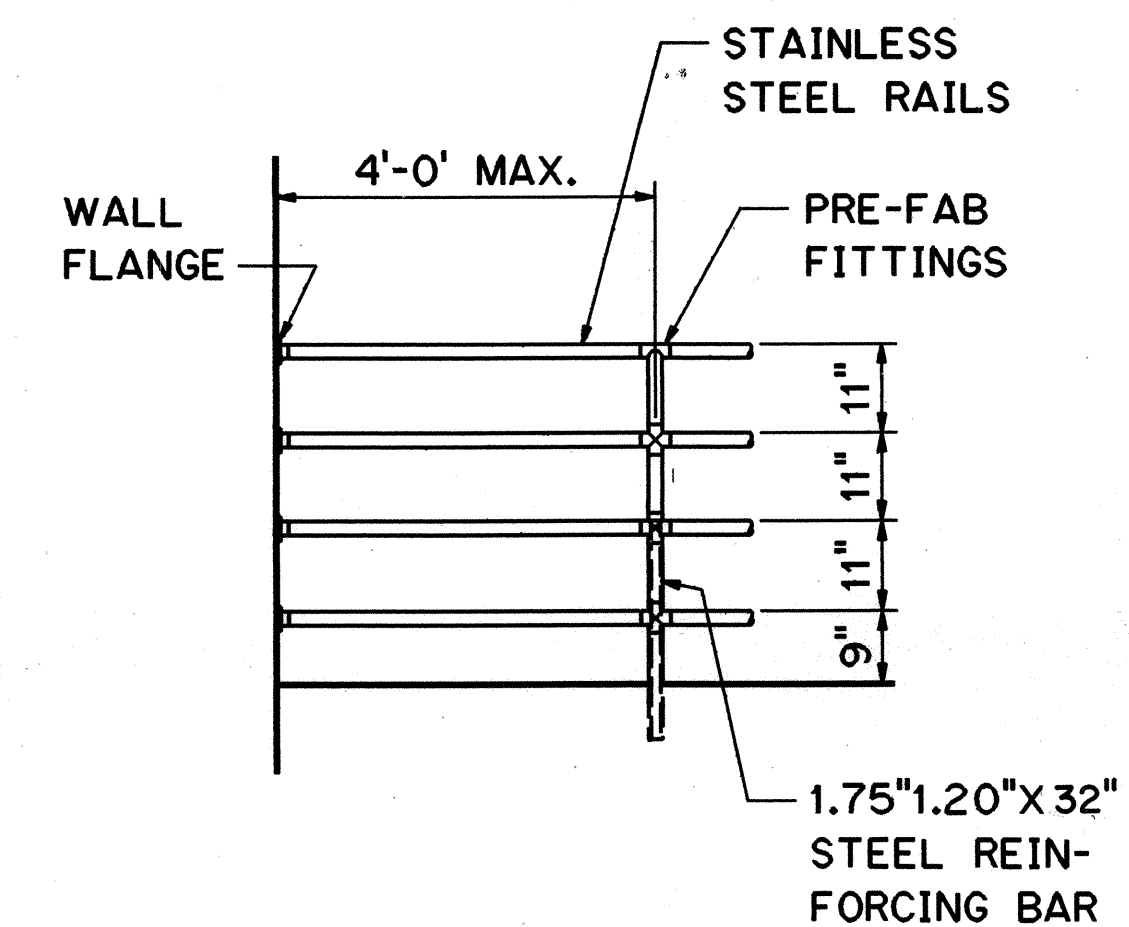


HAIKU IB PORTAL BUILDING

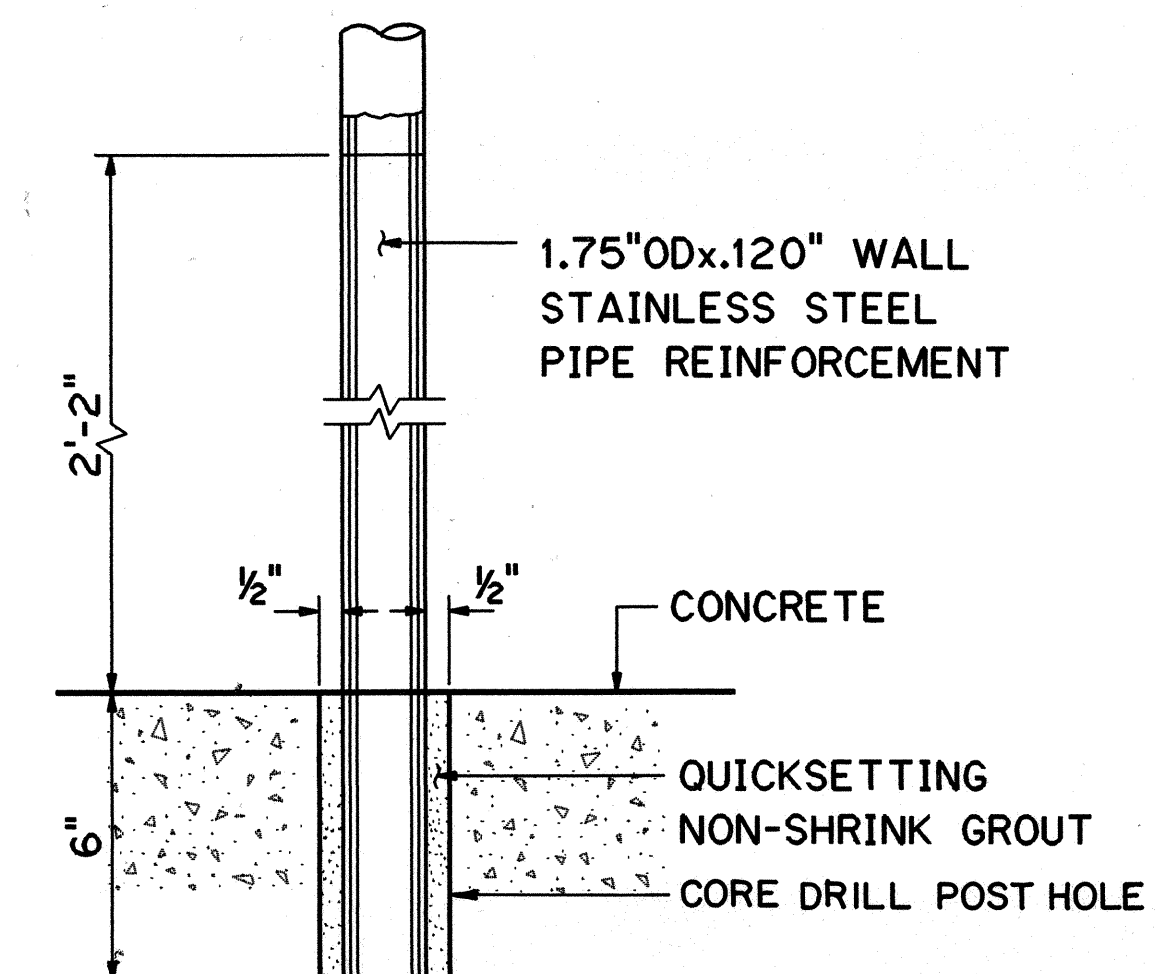


HAIKU OB PORTAL BUILDING

LEVEL 3 PLANS
SCALE: 1/8"=1'-0"

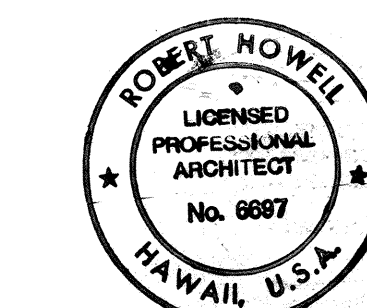
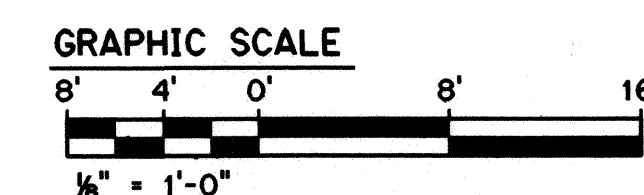


TYPICAL RAIL
SCALE: 1/2"=1'-0"



TYPICAL POST
SCALE: 1/2"=1'-0"

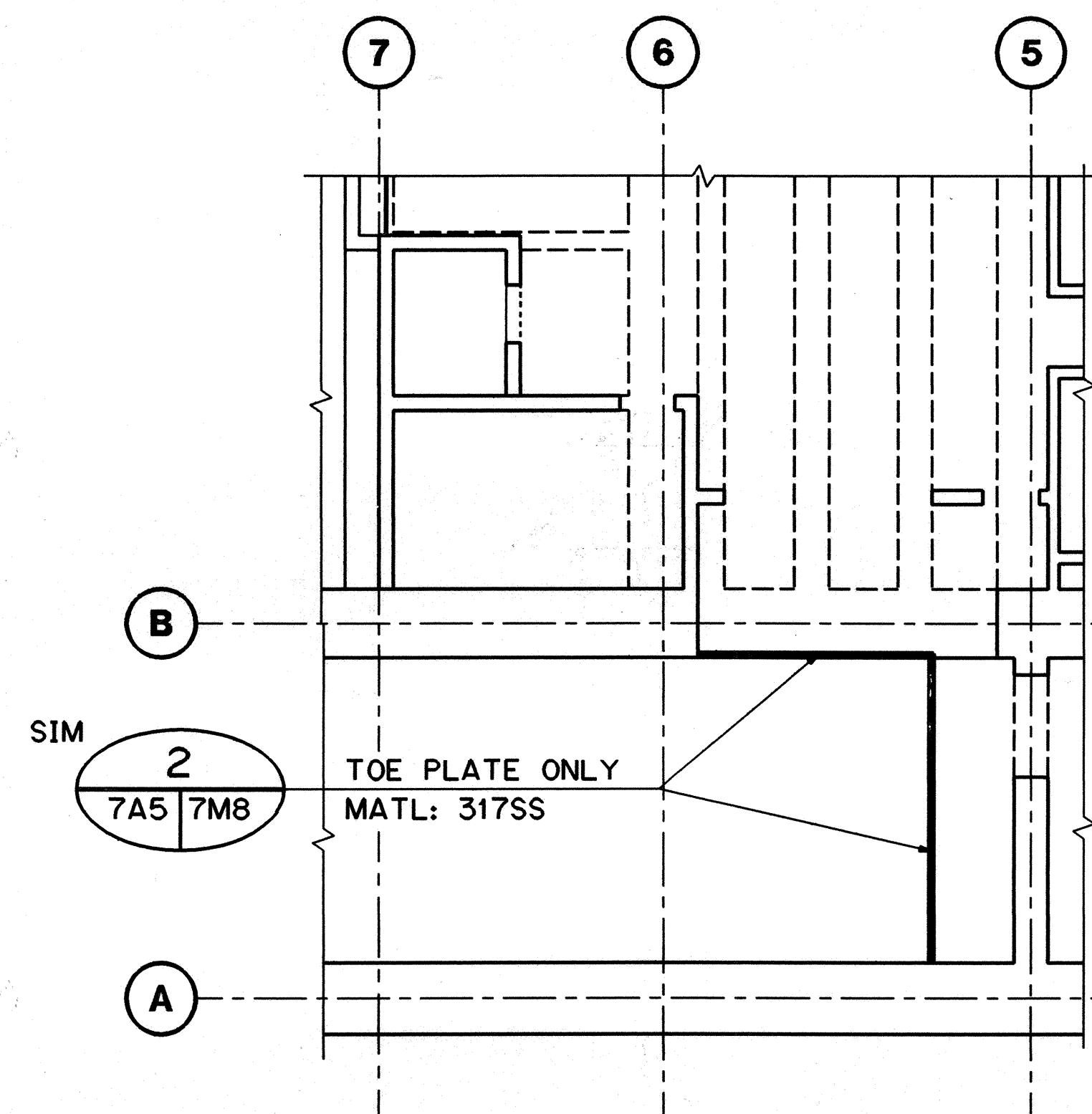
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	



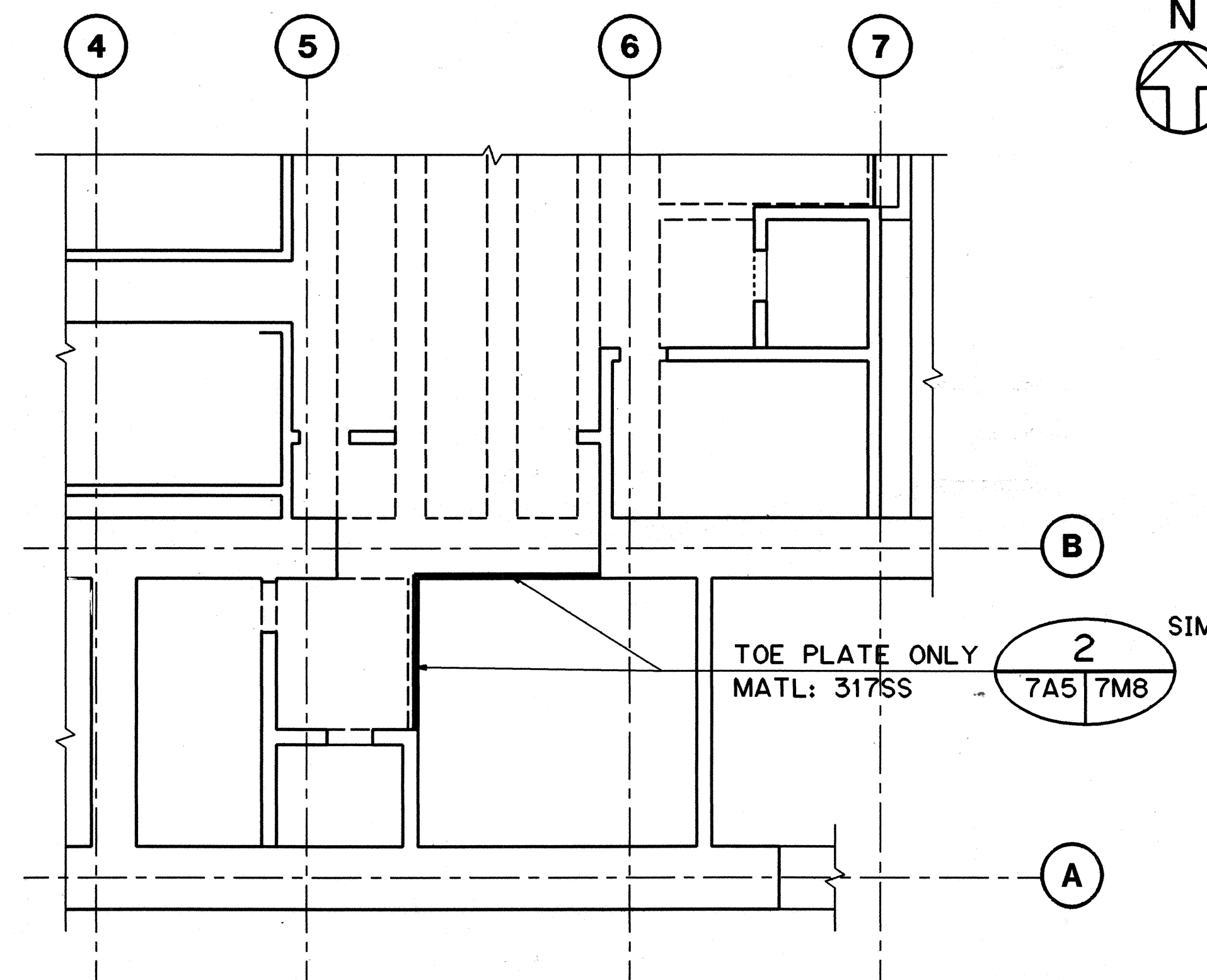
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Robert Howell

10/13/95	ADDENDUM I
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
RAILINGS AND DETAILS-2	
COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL/ACCESS ROADS	
SCALE: NONE	DATE: JUN 1995
SHEET NO. 7A4	OF 5 SHEETS

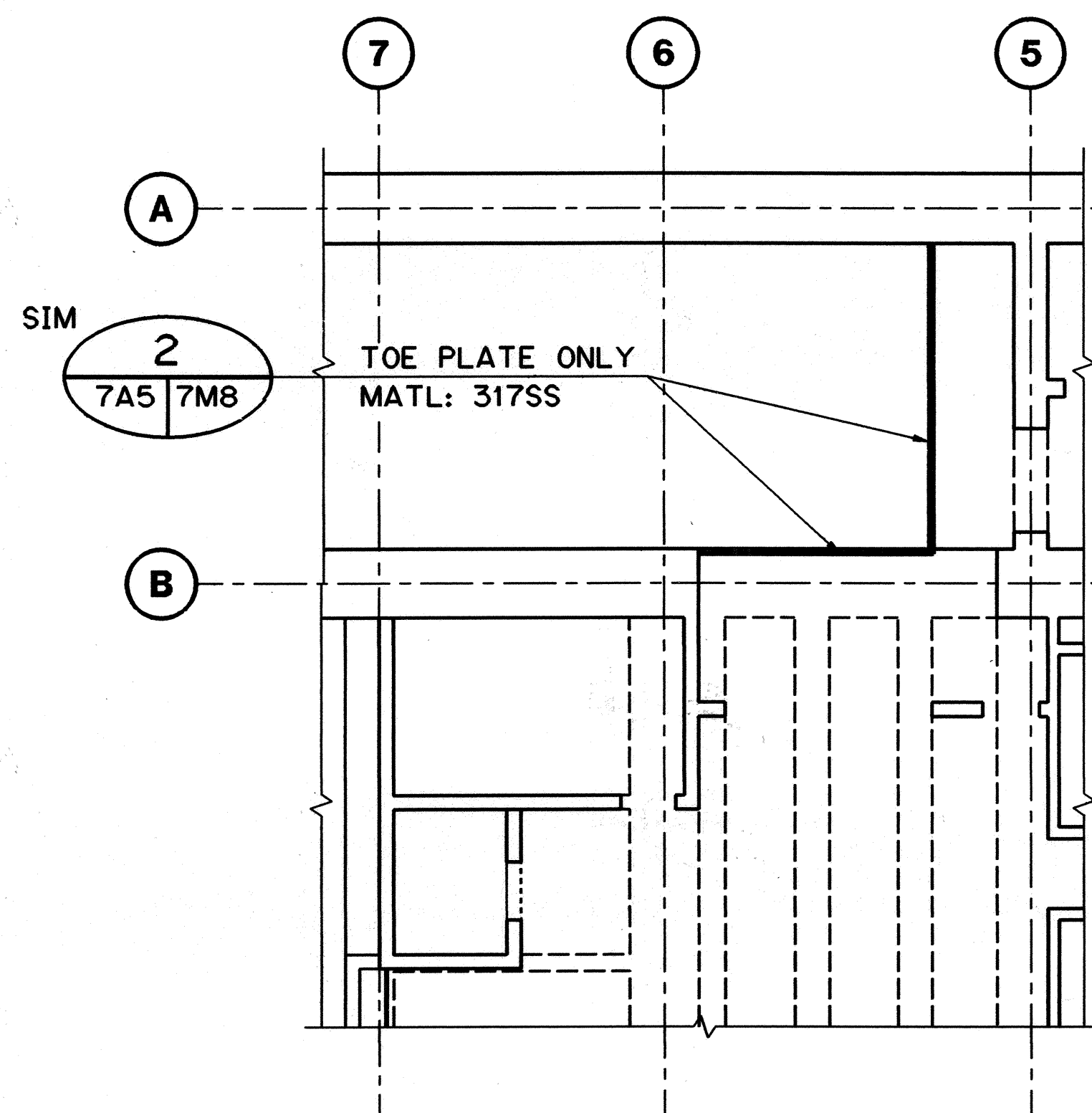
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	273	353



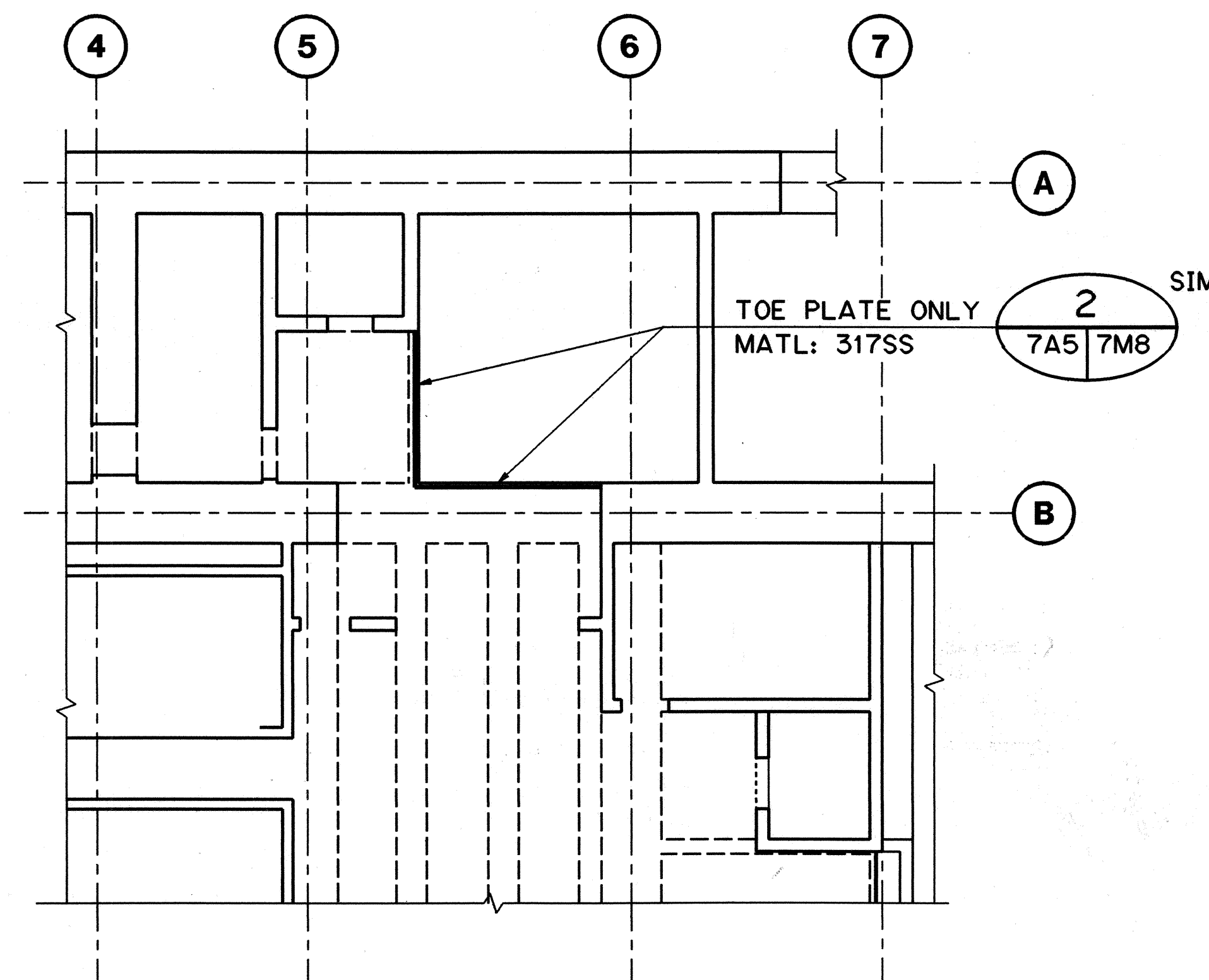
HALAWA IB PORTAL BUILDING



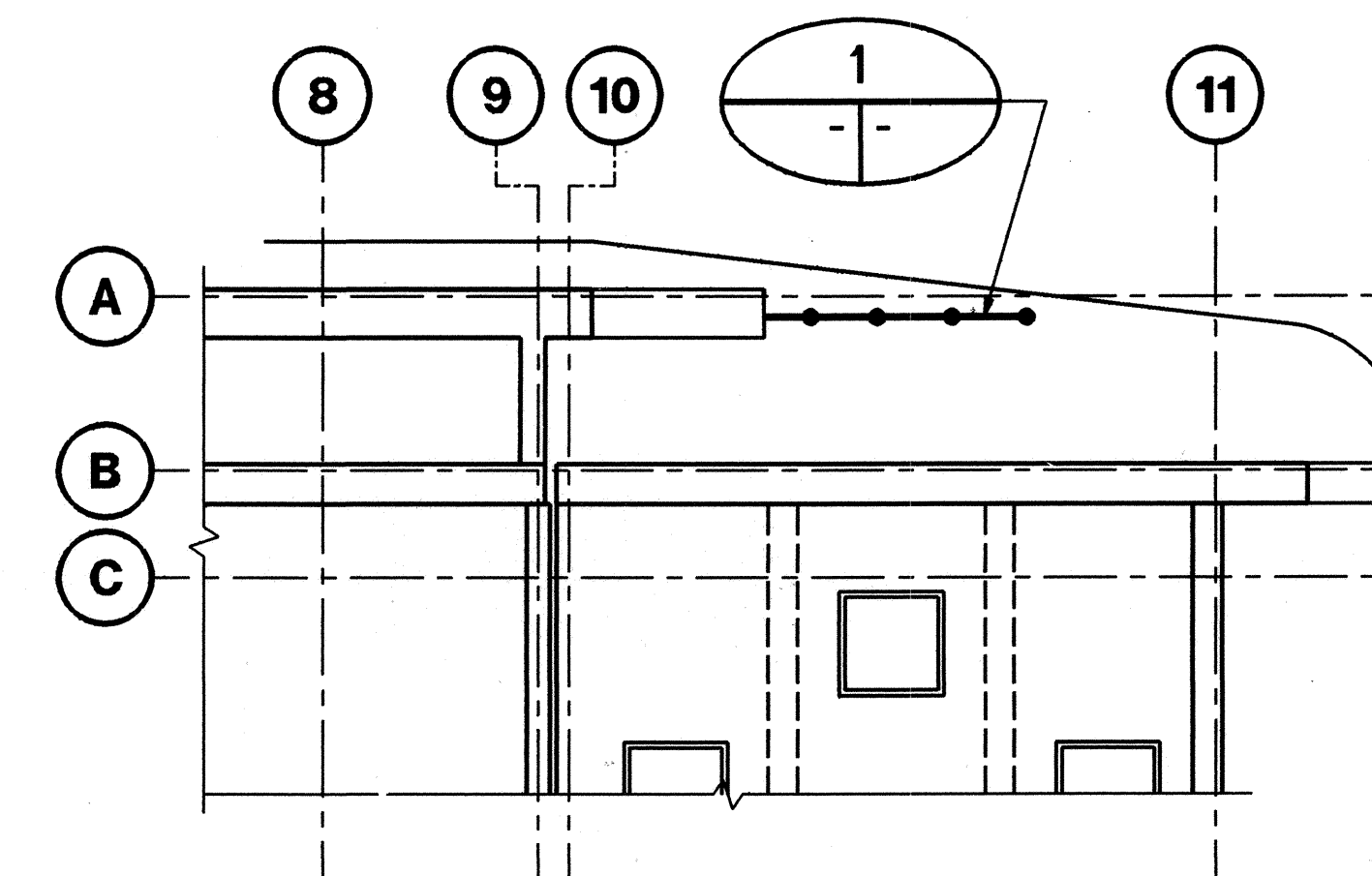
HAIKU IB PORTAL BUILDING



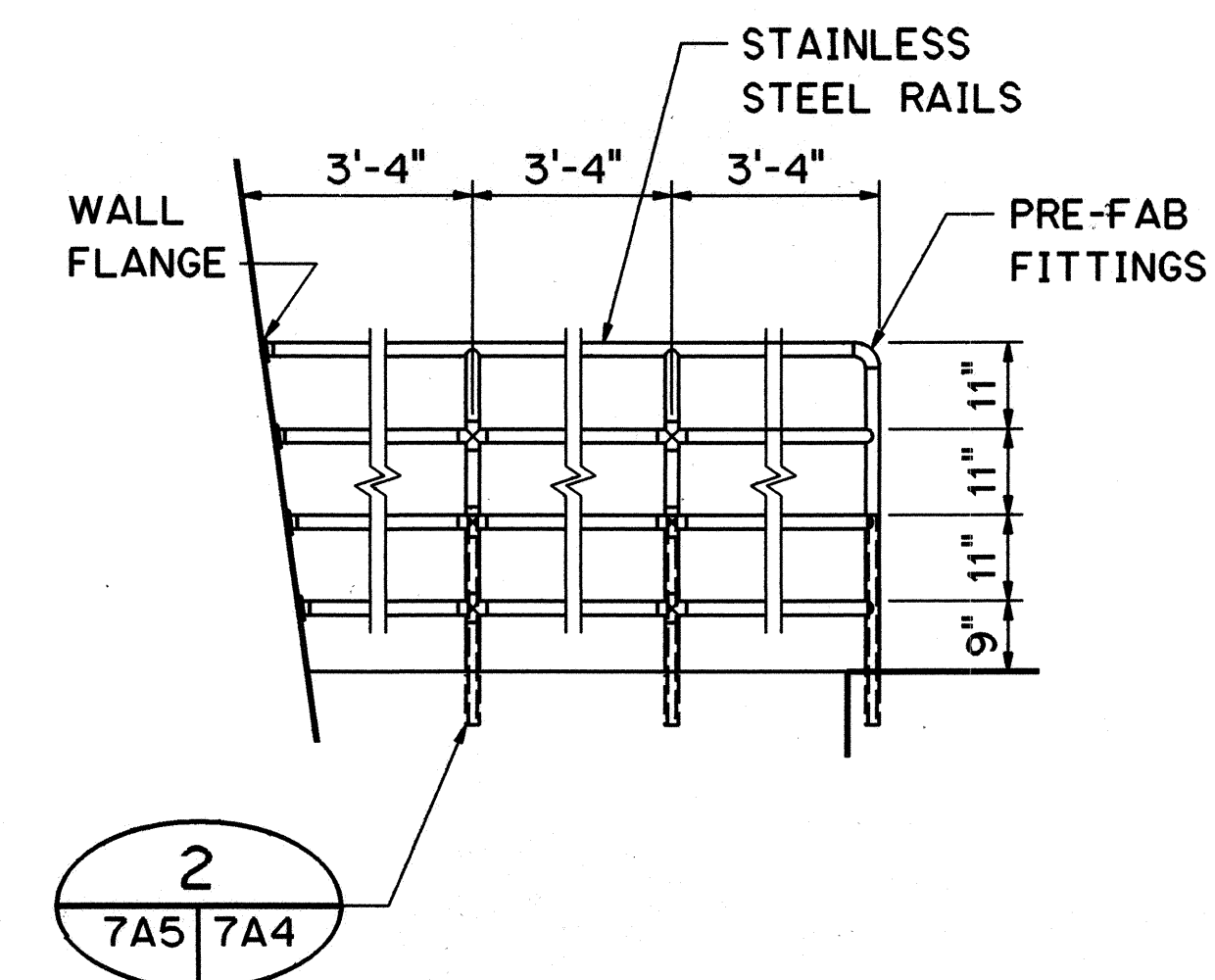
HALAWA OB PORTAL BUILDING



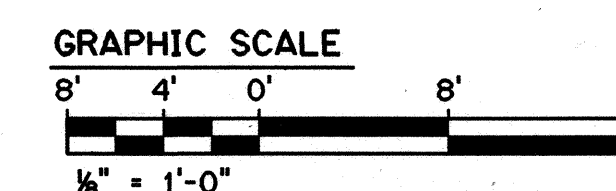
HAIKU OB PORTAL BUILDING



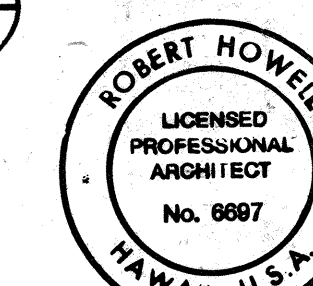
CONTROL BUILDING



ELEVATION-RAILING
SCALE: 1/2"=1'-0"



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

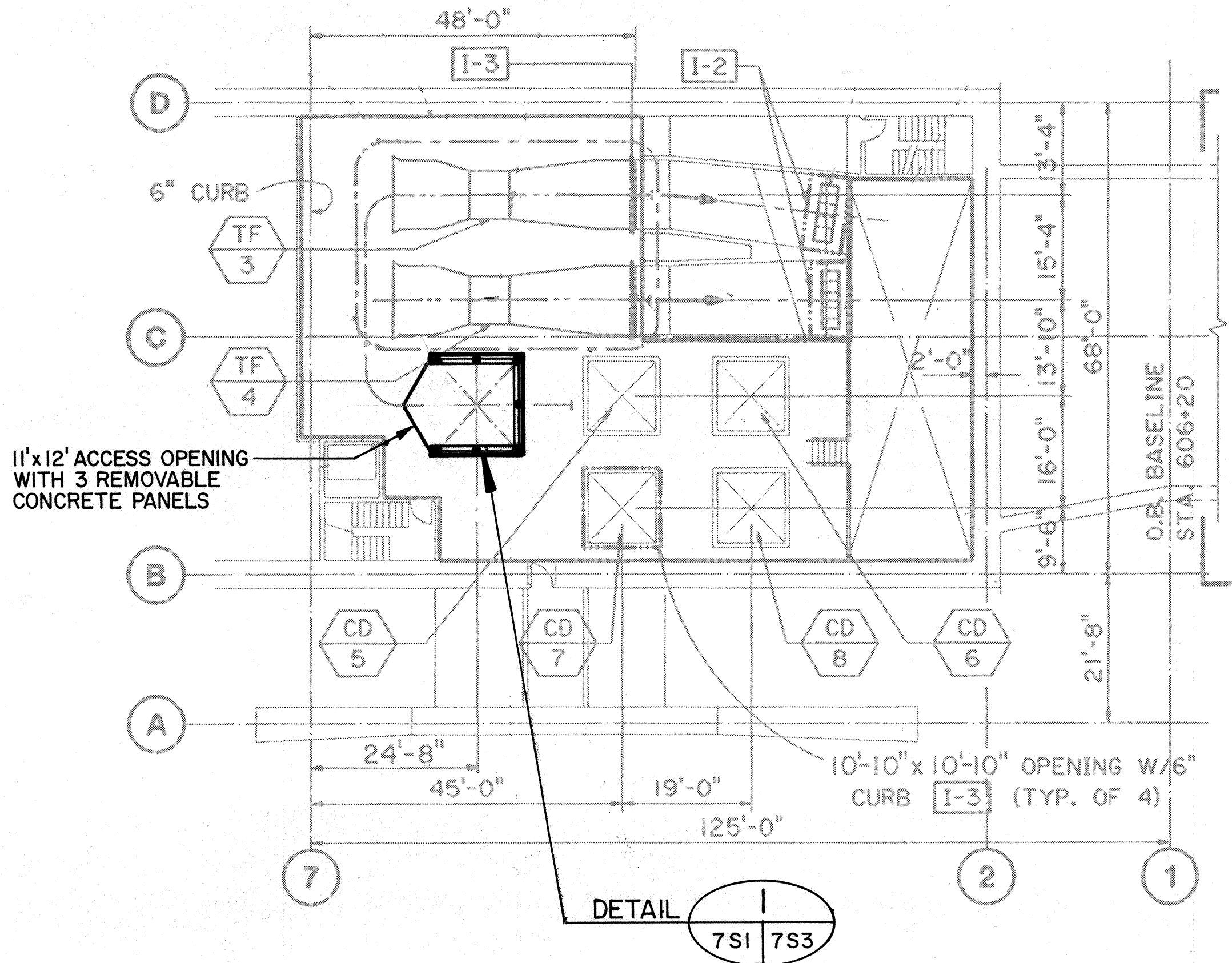


Robert Howell

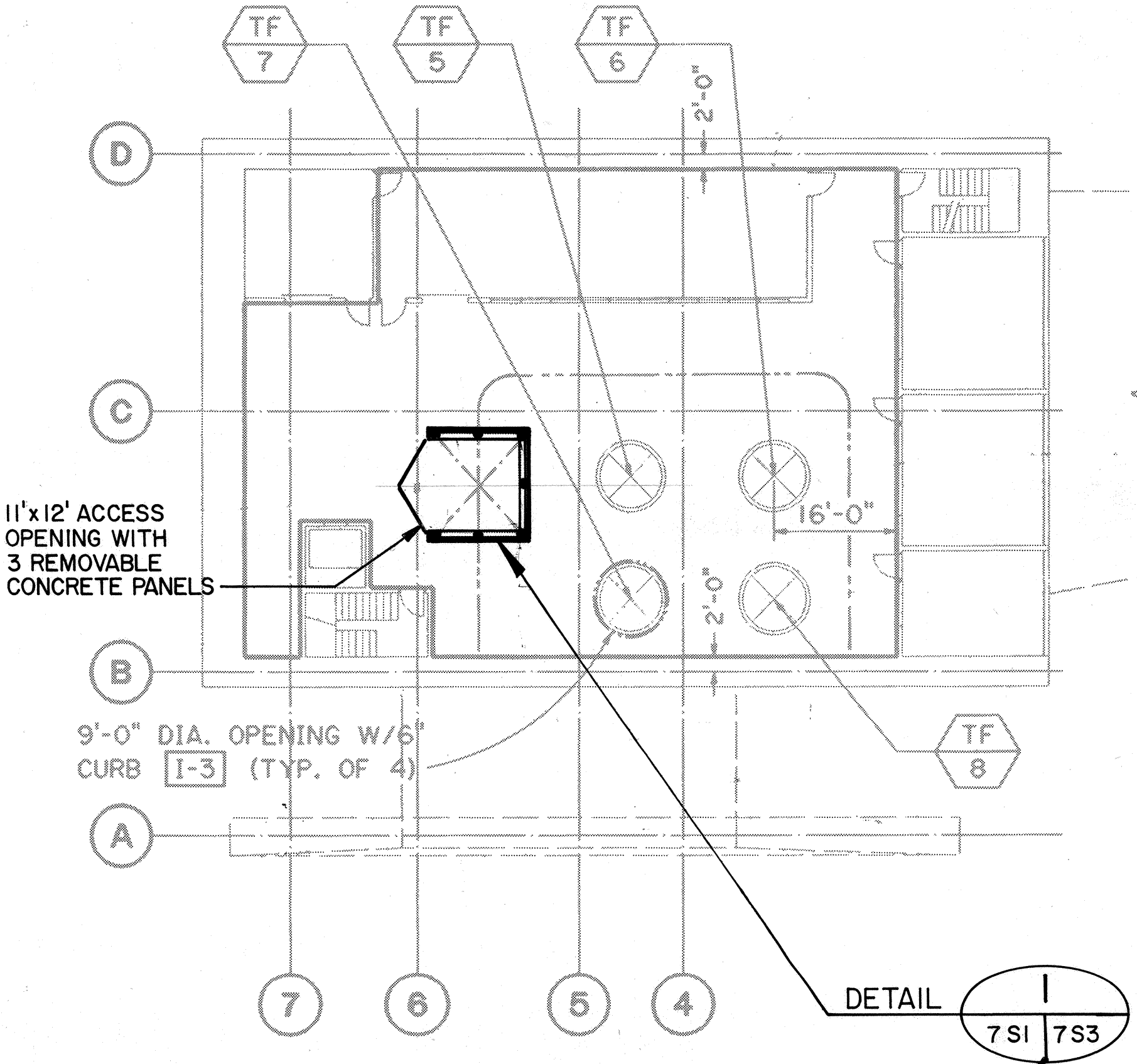
10/13/95	ADDENDUM 1
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
RAILINGS AND DETAILS-3	
COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL/ACCESS ROADS	
SCALE: NONE	DATE: JUN 1995
SHEET NO. 7A5	OF 5 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	DATE
NOTED BY	DATE
CHECKED BY	DATE
NO.	

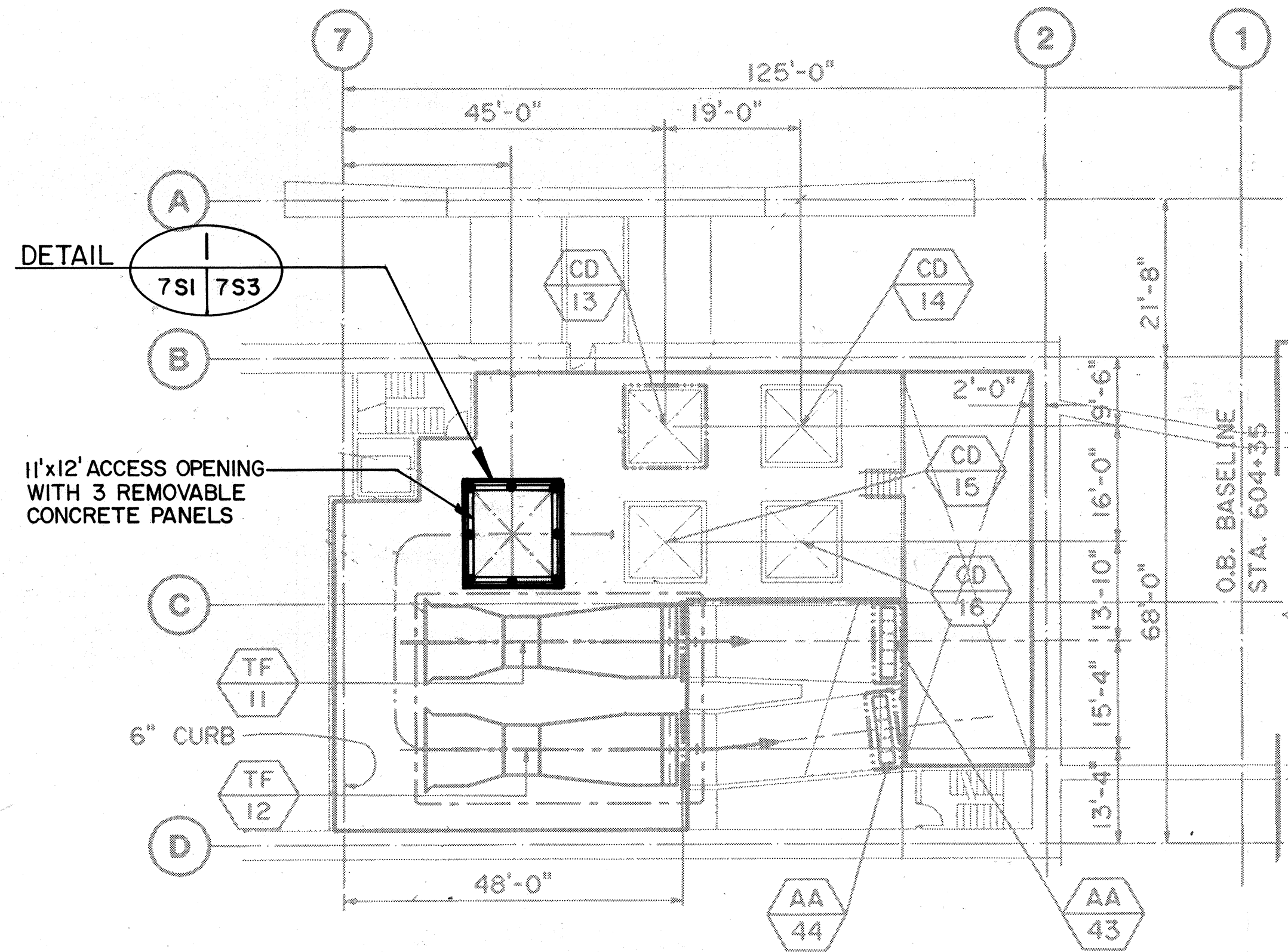
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-I(75) UNIT III	1994	274	353



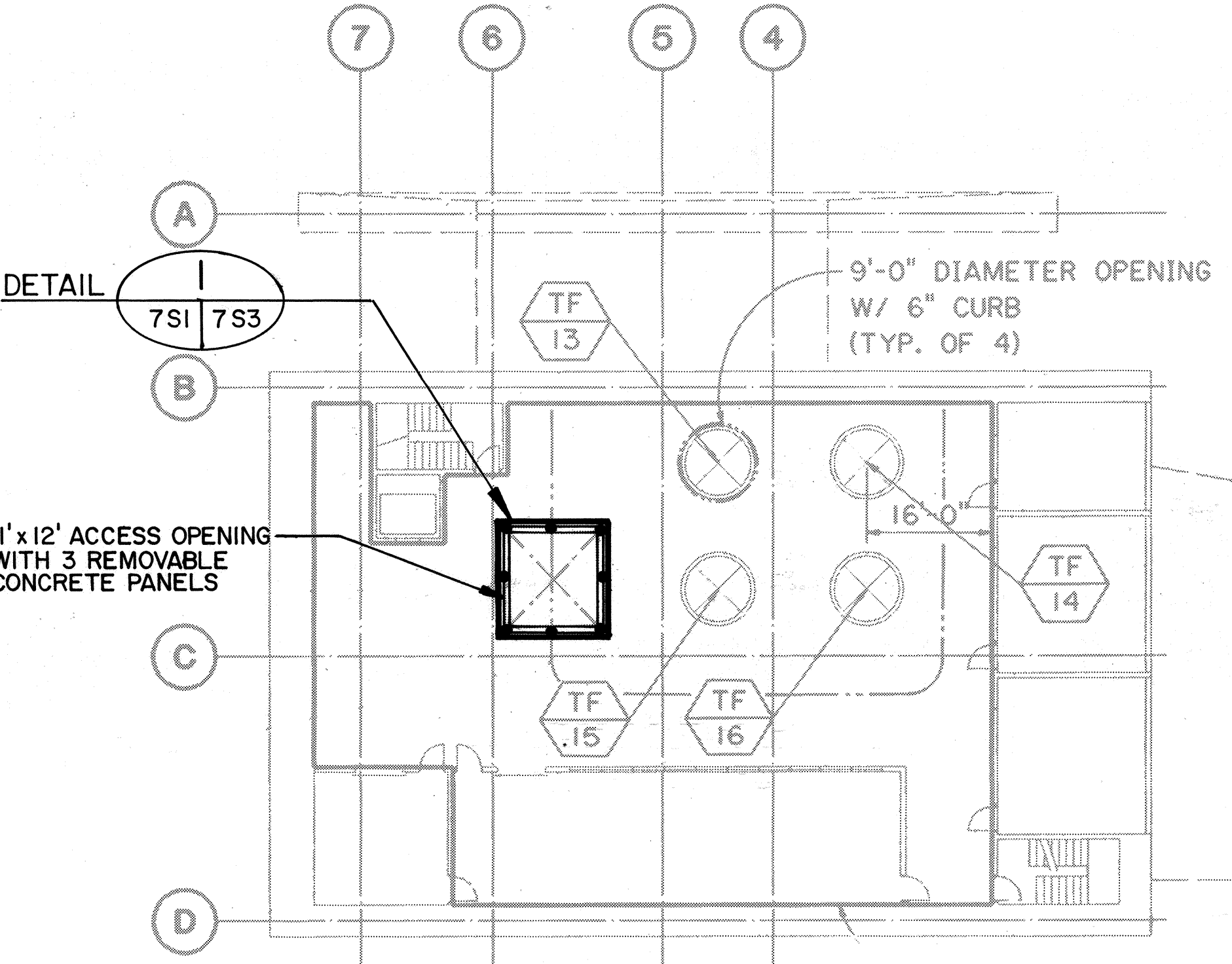
LEVEL 3 PLAN
HALAWA IB PORTAL BUILDING



LEVEL 4 PLAN
HALAWA IB PORTAL BUILDING



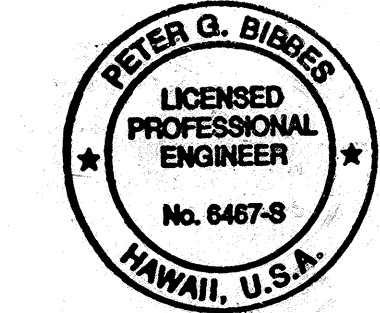
LEVEL 3 PLAN
HALAWA OB PORTAL BUILDING



LEVEL 4 PLAN
HALAWA OB PORTAL BUILDING

FOR DETAIL AS-BUILT INFORMATION
REFER TO CONSTRUCTION SUBMITTALS

DATE	REVISION

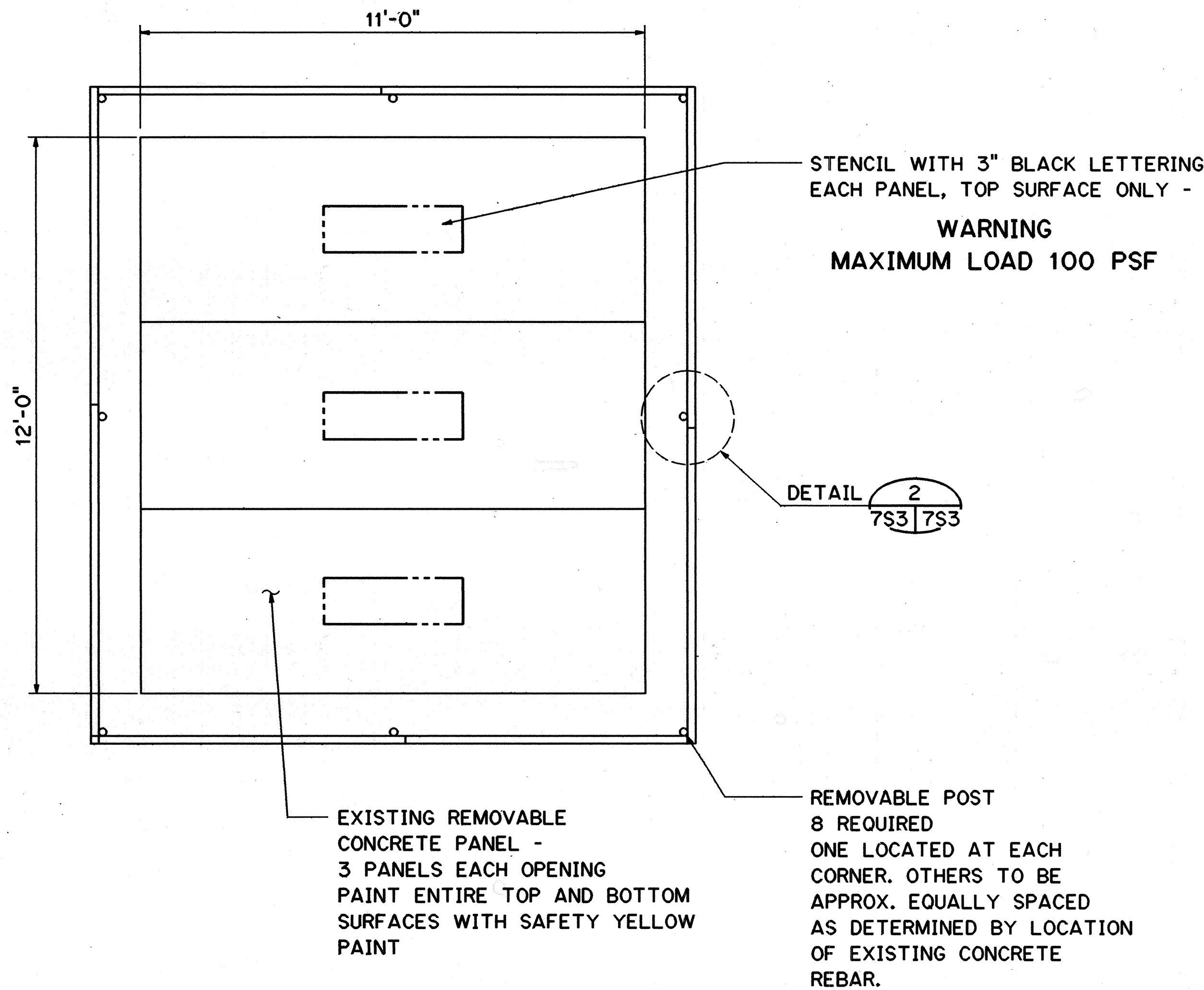


THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Peter G. Bibbes

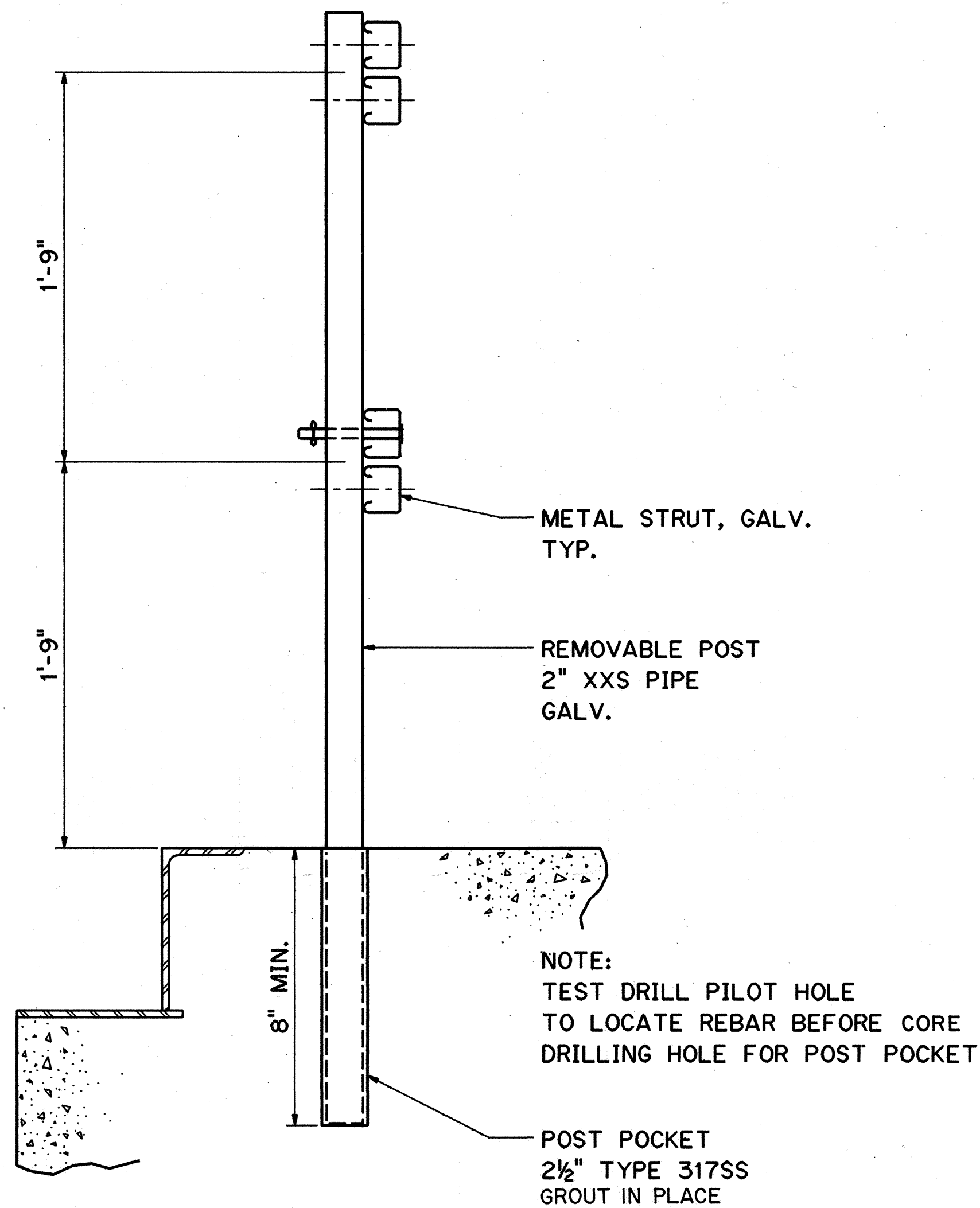
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**ACCESS OPENING SAFETY
RAILING — HALAWA**
COMMON WORK
H-3 FINISH (UNIT III)
FAIP NO. I-H3-I(75), UNIT III
T.K. TUNNEL/ACCESS ROADS
SCALE: NONE
DATE: JUN 1995
SHEET NO. 7SI OF 6 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	OCT 94
TRACED BY	D. E. DRYDEN
NOTE BOOK	OCT 94
QUANTITIES BY	JAN 95
CHECKED BY	P. G. BIBBES
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	276	353

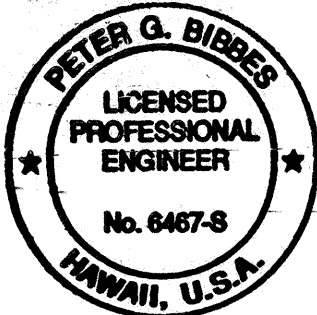


DETAIL 1
SCALE: NONE
7S1 7S3
7S2



DETAIL 2
SCALE: NONE
7S3 7S3

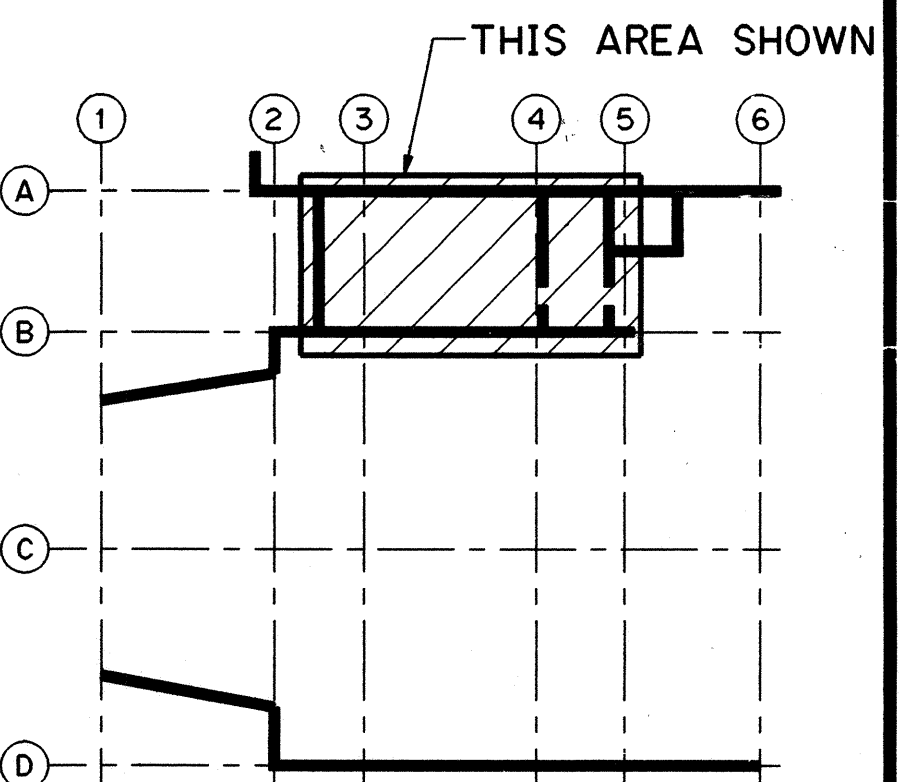
DESIGNED BY	DATE
NOV 94	
CHECKED BY	
NOV 94	
DESIGNED BY	
NOV 94	
CHECKED BY	
NOV 94	



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Peter G. Bibbes

10/27/95	ADDENDUM 2-ADDED POST POCKET NOTE
10/13/95	ADDENDUM 1
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ACCESS OPENING SAFETY	
RAILING - DETAILS	
COMMON WORK	
H-3 FINISH (UNIT III)	
FAIP NO. I-H3-1(75), UNIT III	
T.K. TUNNEL/ACCESS ROADS	
SCALE: NONE	DATE: JUN 1995
SHEET NO. 7S3	OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	278	353



KEY PLAN
HAIKU OB PORTAL BUILDING
LEVEL 2

NOTES:

1. FOR GENERAL STRUCTURAL NOTES, SEE SHEET NO. 1G12

FOR DETAIL AS-BUILT INFORMATION
REFER TO CONSTRUCTION SUBMITTALS

SUMMARY OF ITEMS

DESCRIPTION	UNIT	QUANTITY
CONCRETE	CU YD	9.5
REBAR	LB	1150
STRUCTURAL STEEL	LB	1300

DATE	REVISION
10/27/95	ADDENDUM 2-ADDED HOT DIP ZINC COATED TO CHKRD PLATE
10/13/95	ADDENDUM 1

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HAIKU POTABLE WATER

TANK - PLAN

COMMON WORK

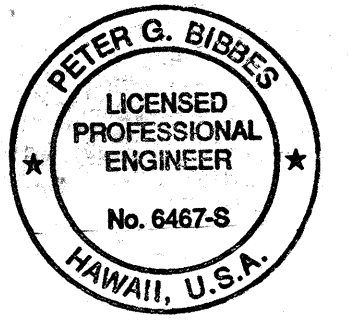
H-3 FINISH (UNIT III)

FAIP NO. I-H3-1(75), UNIT III

T.K. TUNNEL/ACCESS ROADS

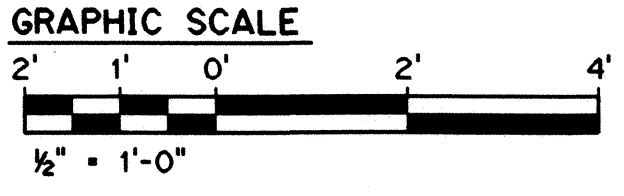
SCALE: 1/2" = 1'-0" DATE: JUN 1995

SHEET NO. 7S5 OF 6 SHEETS

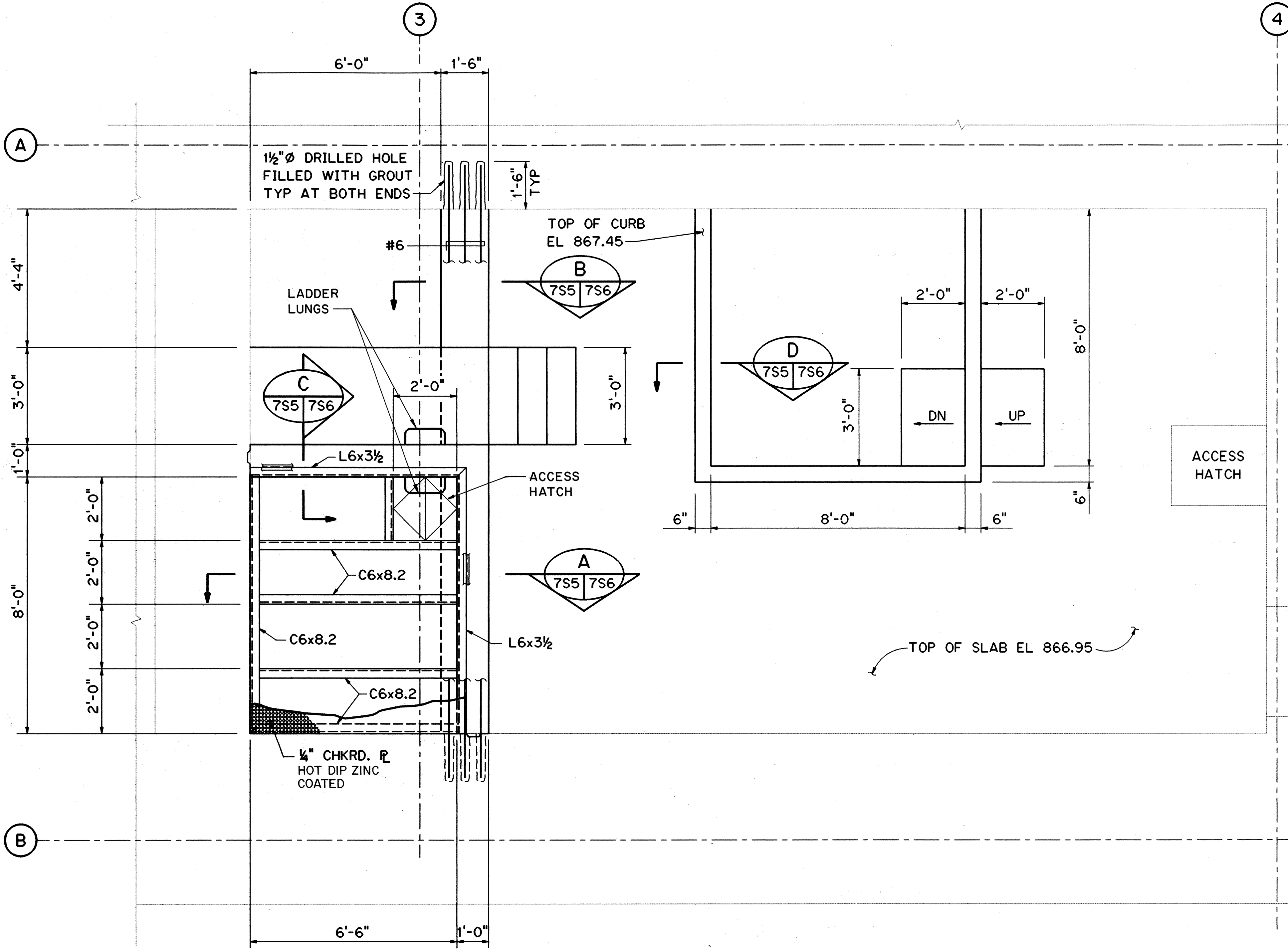


THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Peter G. Bises

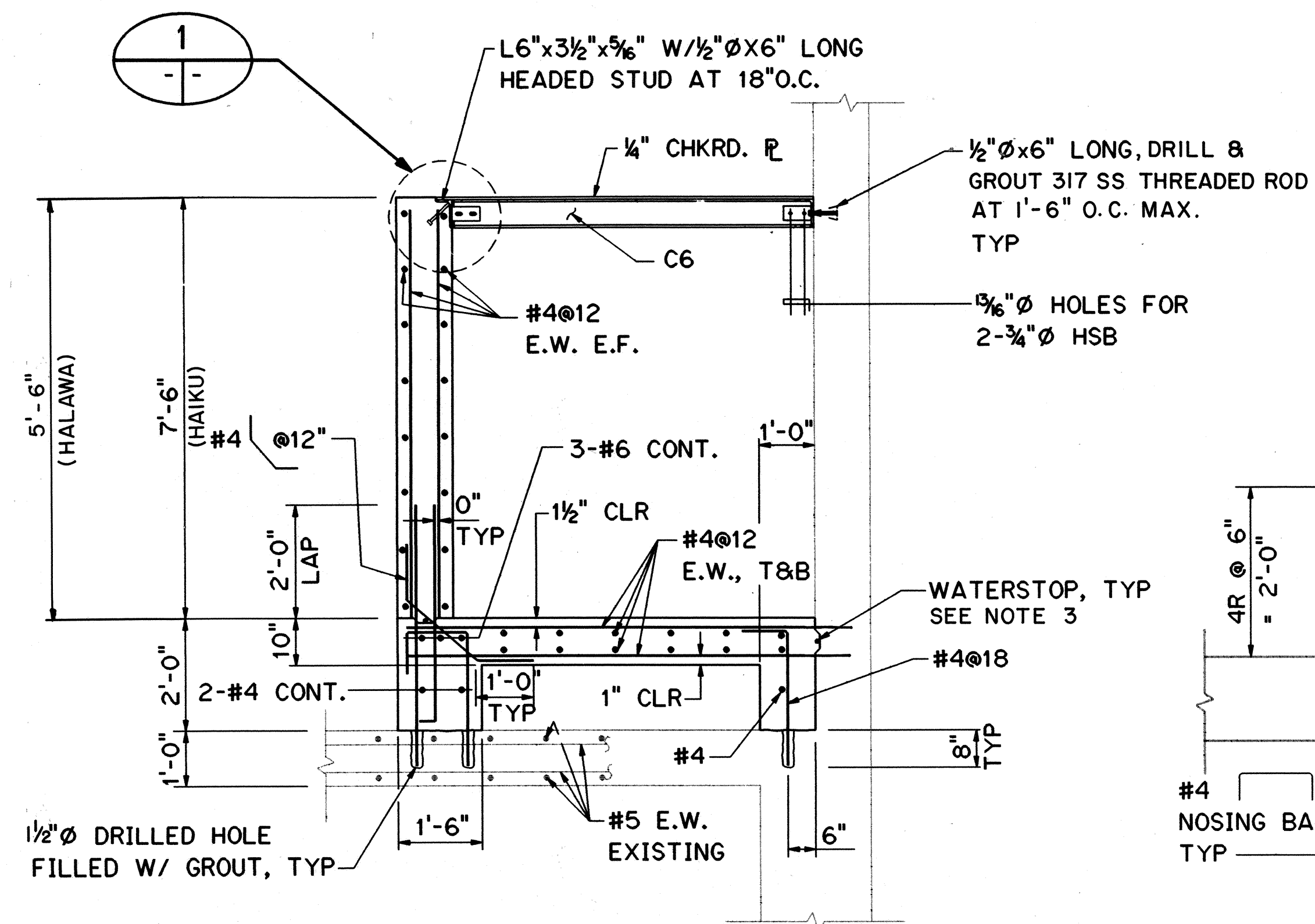


PLAN



SURVEY PLOTTED BY	DATE
DESIGNED BY	DESIGNED BY
CHECKED BY	CHECKED BY
NO.	NO.

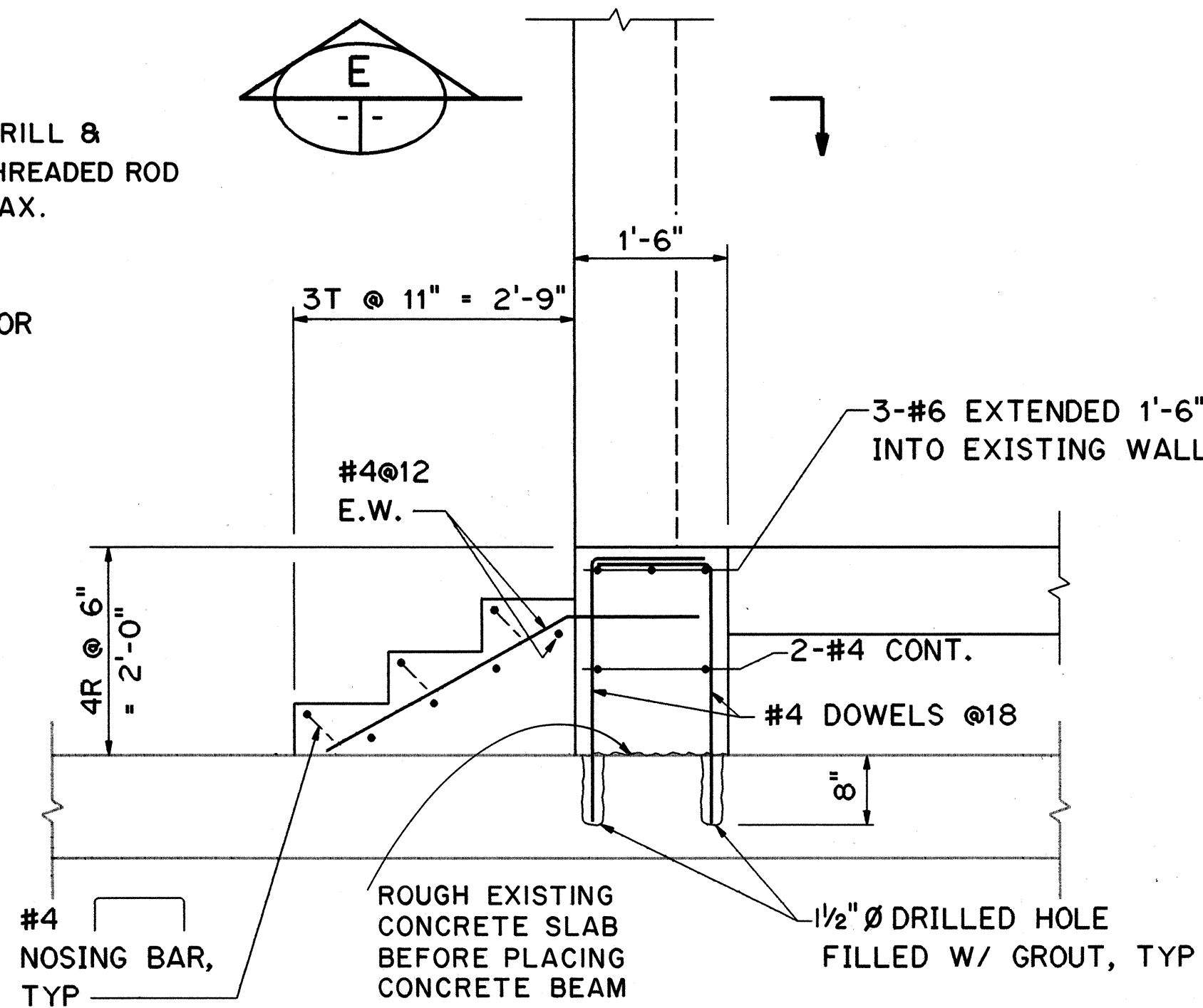
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	279	353



SECTION A

SCALE: 1/2" = 1'-0"

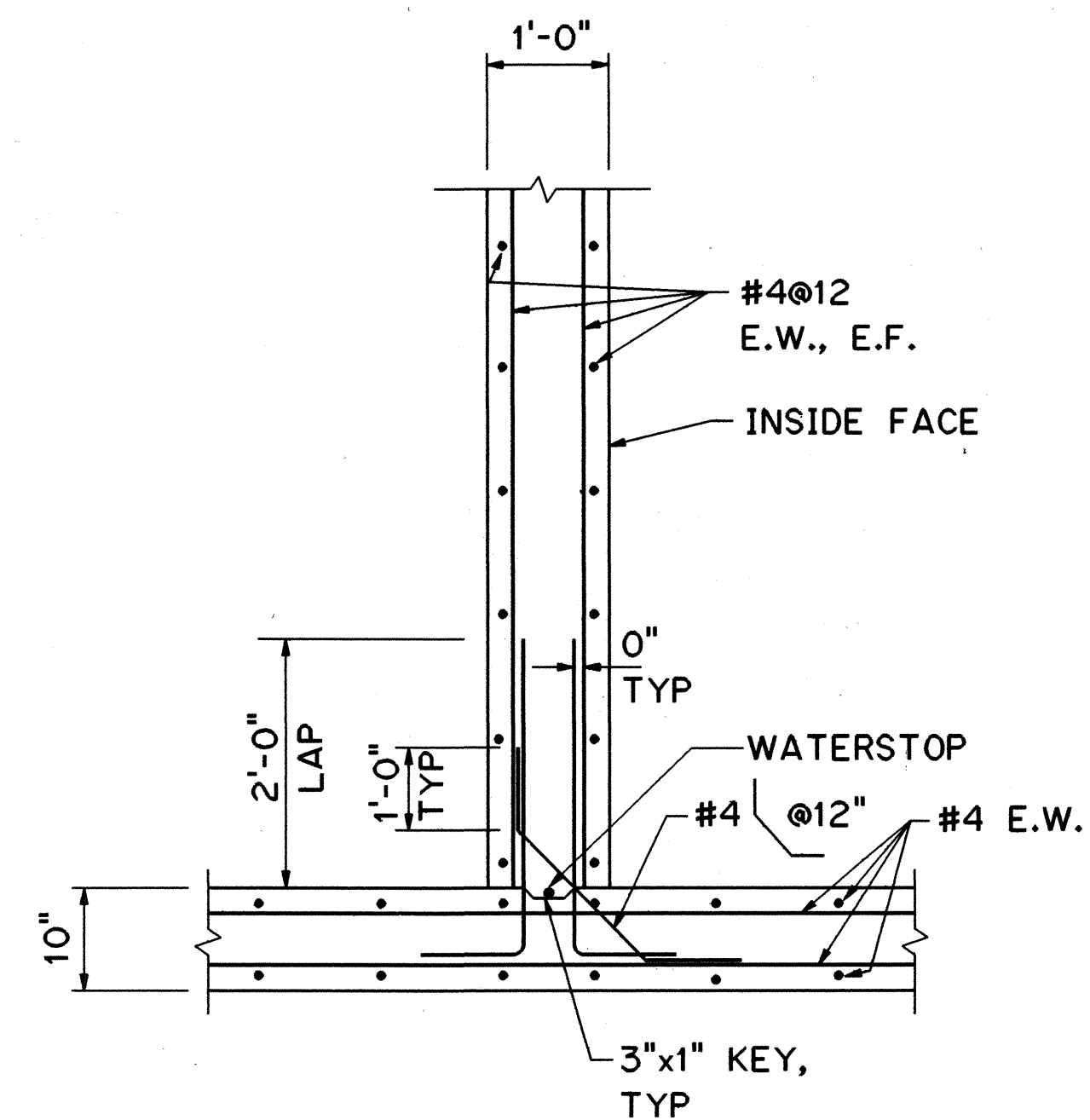
7S4	7S6
7S5	



SECTION B

SCALE: 3/4" = 1'-0"

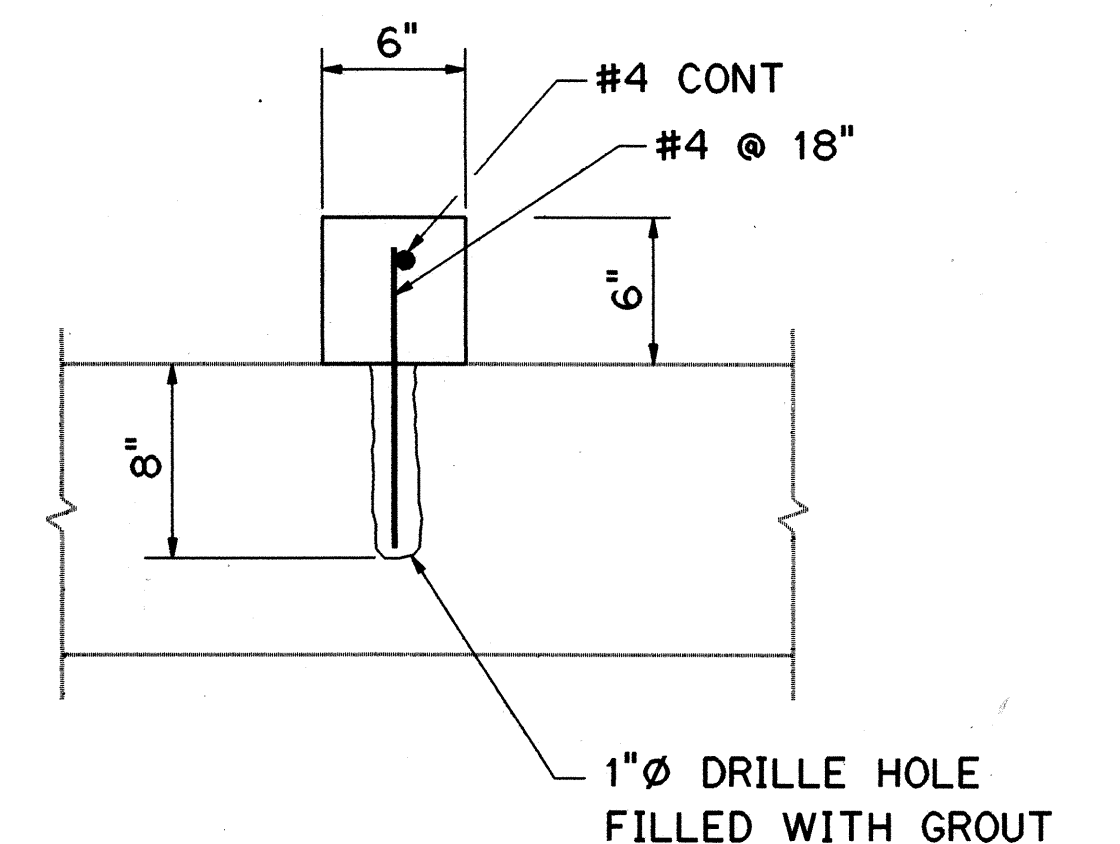
7S4	7S6
7S5	



SECTION

SCALE: $\frac{3}{4}" = 1'-0"$

7S4 7S6
7S5



SECTION

SCALE: 1½" = 1'-0"

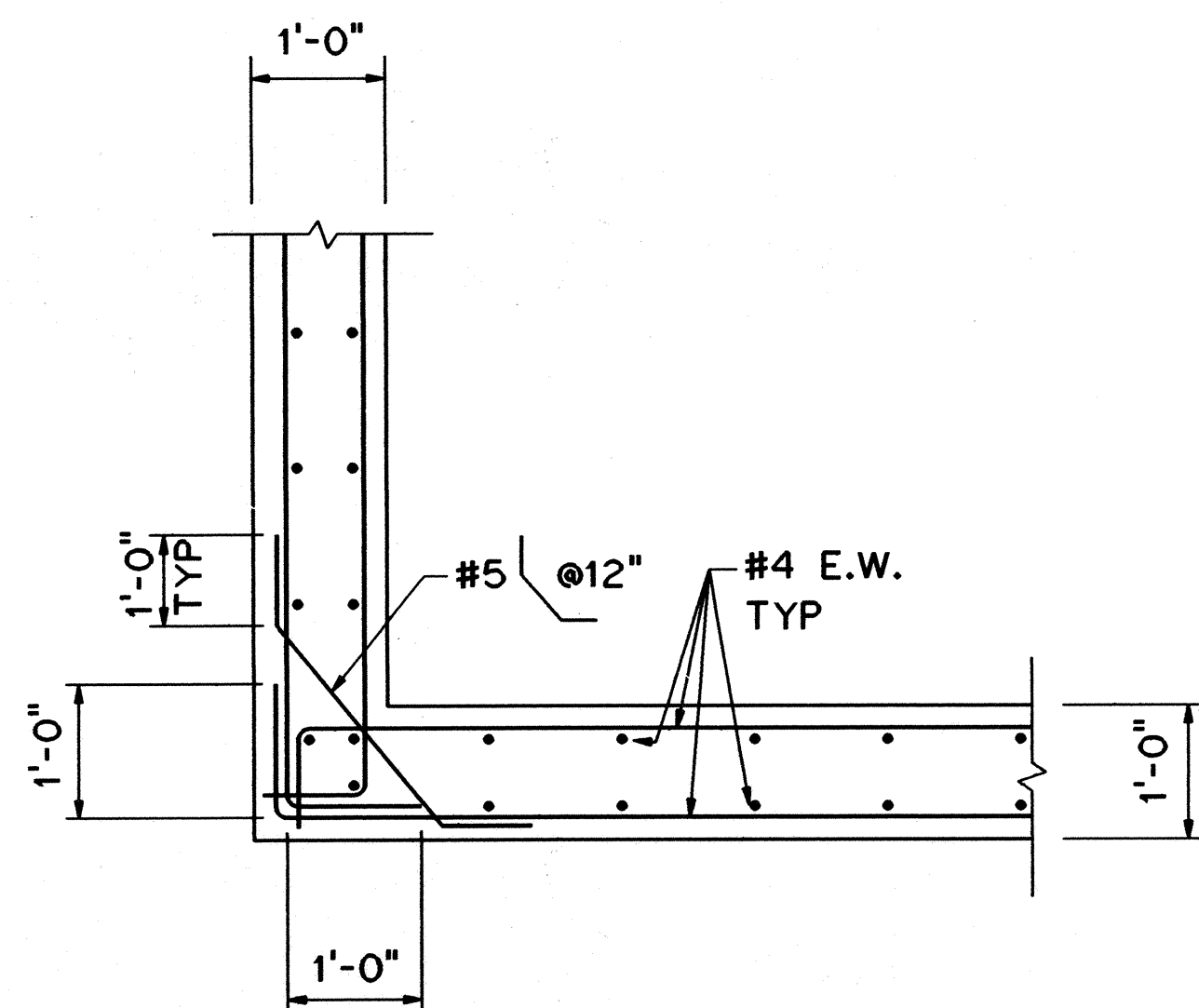
D

7S4 7S6

7S5

NOTES:

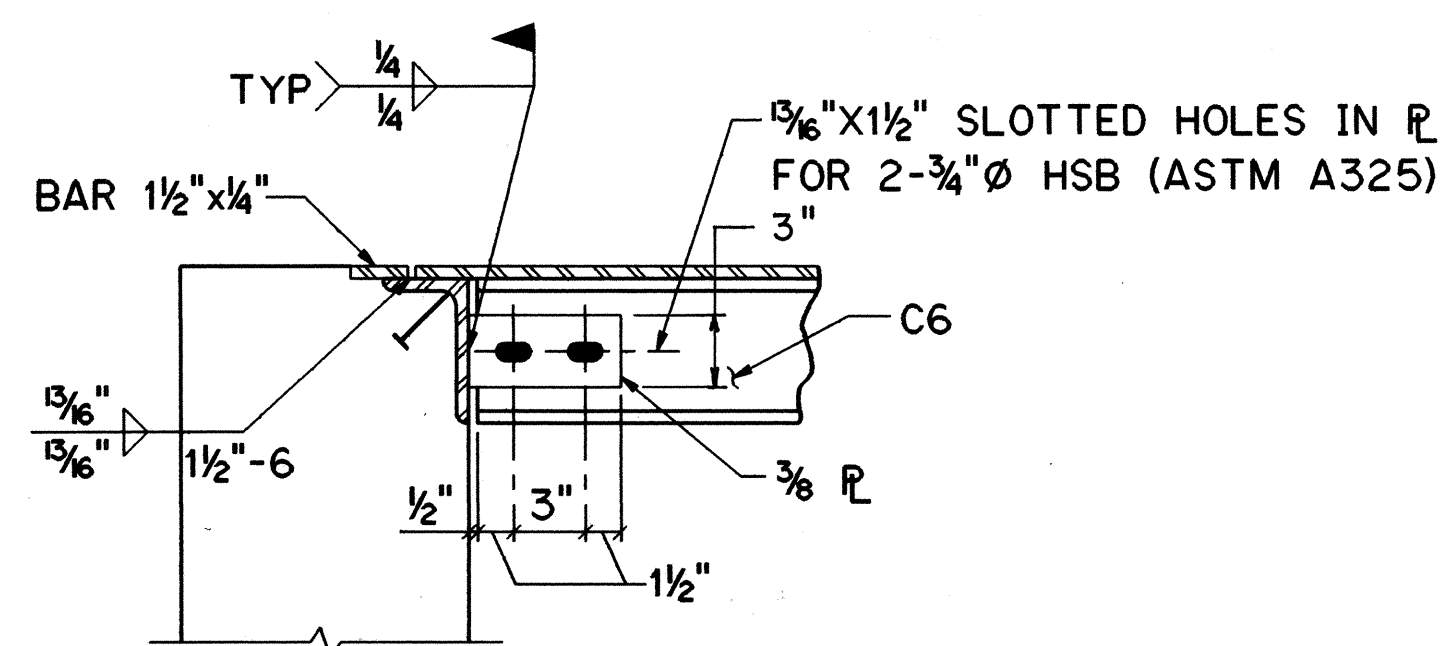
1. FOR GENERAL STRUCTURAL NOTES, SEE SHEET NO. 1G12.
2. CONSTRUCTION JOINTS ALLOWABLE ONLY WHERE SHOWN.
3. WATERSTOP SHALL BE SYNKO-FLEX BY SYNKO-FLEX PRODUCTS, INC.; LOCKSTOP BY GREENSTREAK; ULTRA-STOP BY VINYLEX OR APPROVED EQUAL. WATERSTOP SHALL BE APPROVED FOR USE WITH POTABLE WATER.
4. SEAL ALL INSIDE JOINTS WITH SILICONE SEALANT AFTER CONCRETE CURES. APPLY SPRAY-TYPE WATERPROOFING. WATERPROOFING SHALL BE APPROVED FOR USE WITH POTABLE WATER.



SECTION

SCALE: 3/4" = 1'-0"

E



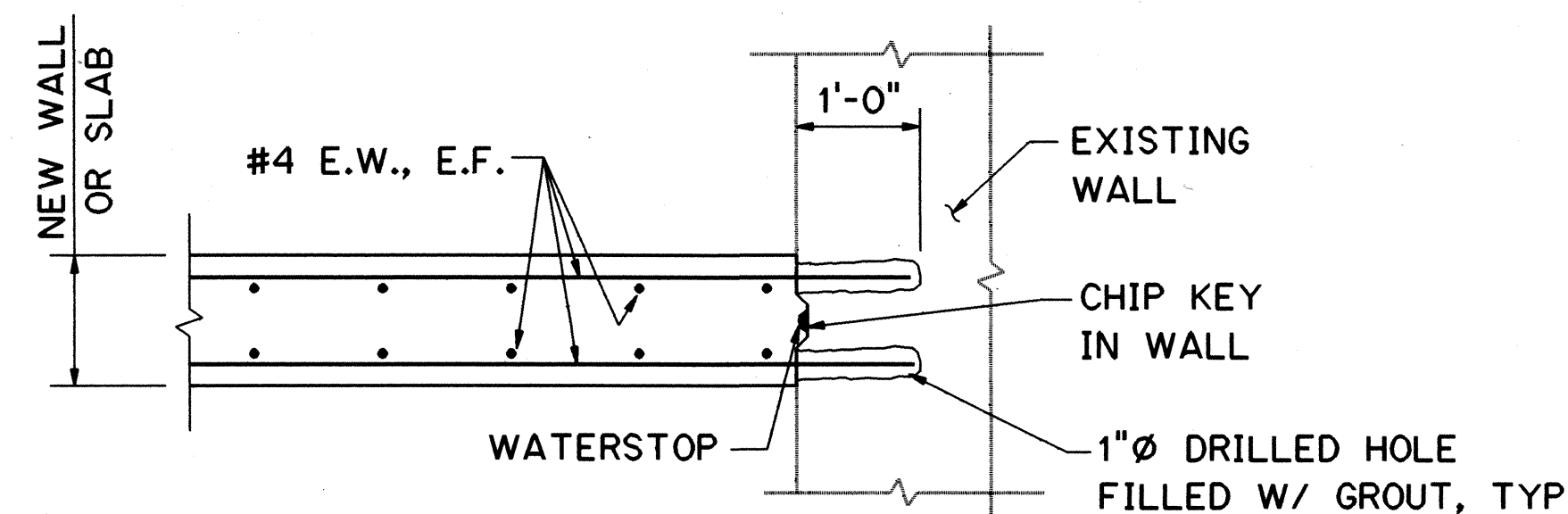
TYPICAL C6 TO LEDGE CONNECTION

DETAIL

SCALE $1\frac{1}{2}" = 1'-0"$

1

- -

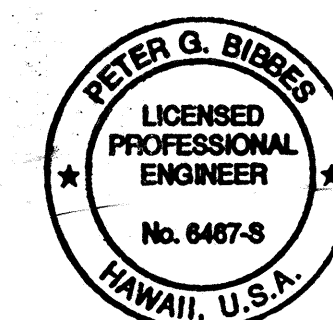
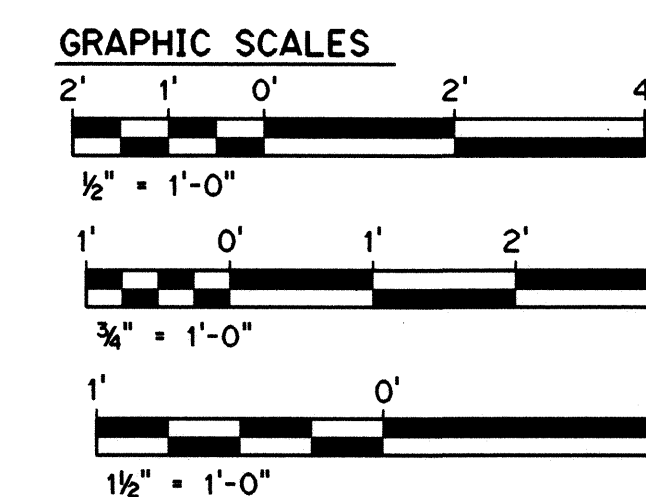


TYPICAL WALL OR SLAB TO EXIST. WALL CONNECTION

DETAIL

SCALE: 3/4" = 1'-0"

2



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Pete Z Krabe

2/3/97	DCN 75-011: REVISED WATER TANK HEIGHT (SECTION A) PER RESPONSE TO RF1 # 4097-177
10/13/95	ADDENDUM 1
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

POTABLE WATER TANK

SECTIONS AND DETAILS

COMMON WORK

H-3 FINISH (UNIT III)

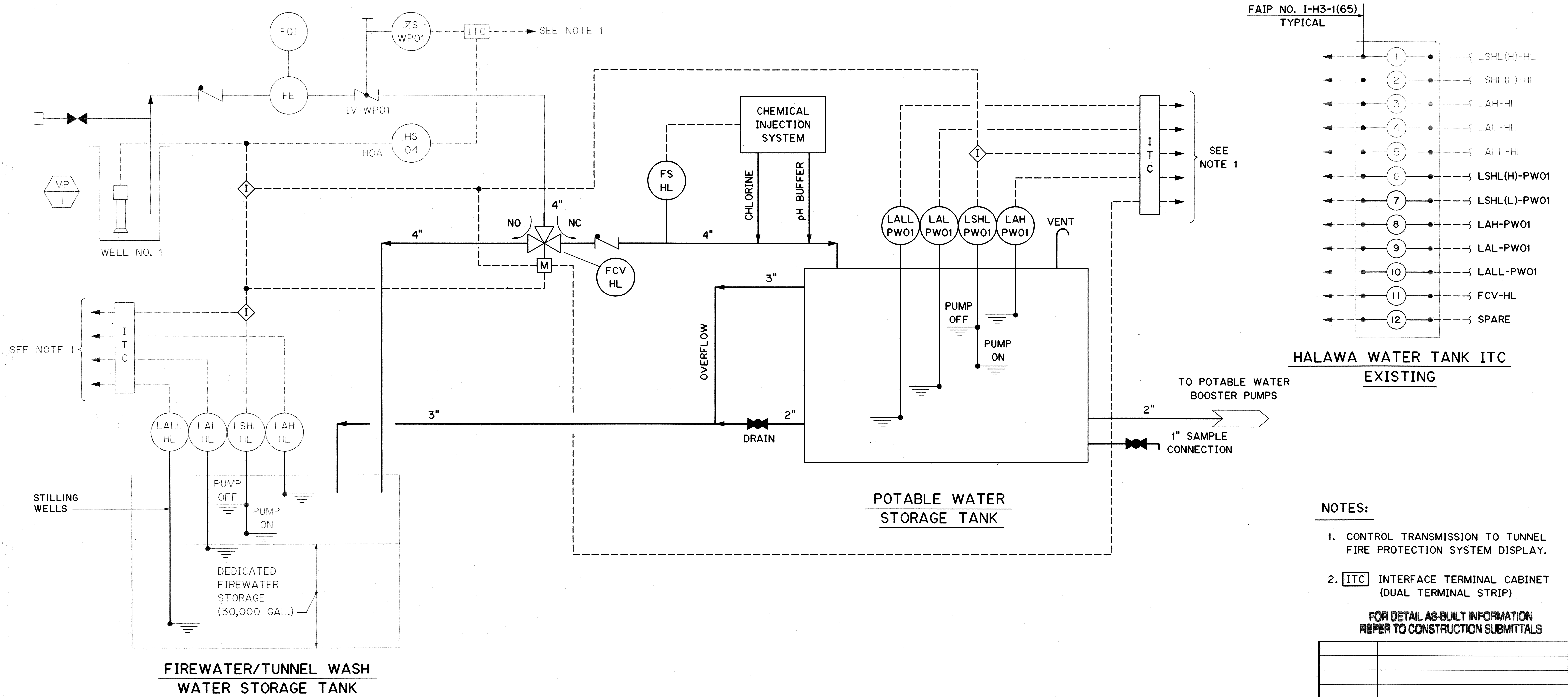
FAIP NO. I-H3-1(75), UNIT III

T.K. TUNNEL/ACCESS ROADS

SCALE: AS NOTED
DATE: JUN 1995

SHEET NO. 756
OF 6
SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	TRAINED BY	
	DRAWN BY	MAR 95
	DESIGNED BY	
	QUANTITIES BY	MAR 95
	CHECKED BY	
NO.	P. BIBBES	MAR 95

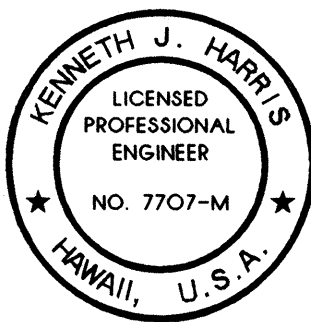


NOTES:

- CONTROL TRANSMISSION TO TUNNEL FIRE PROTECTION SYSTEM DISPLAY.
- ITC INTERFACE TERMINAL CABINET (DUAL TERMINAL STRIP)

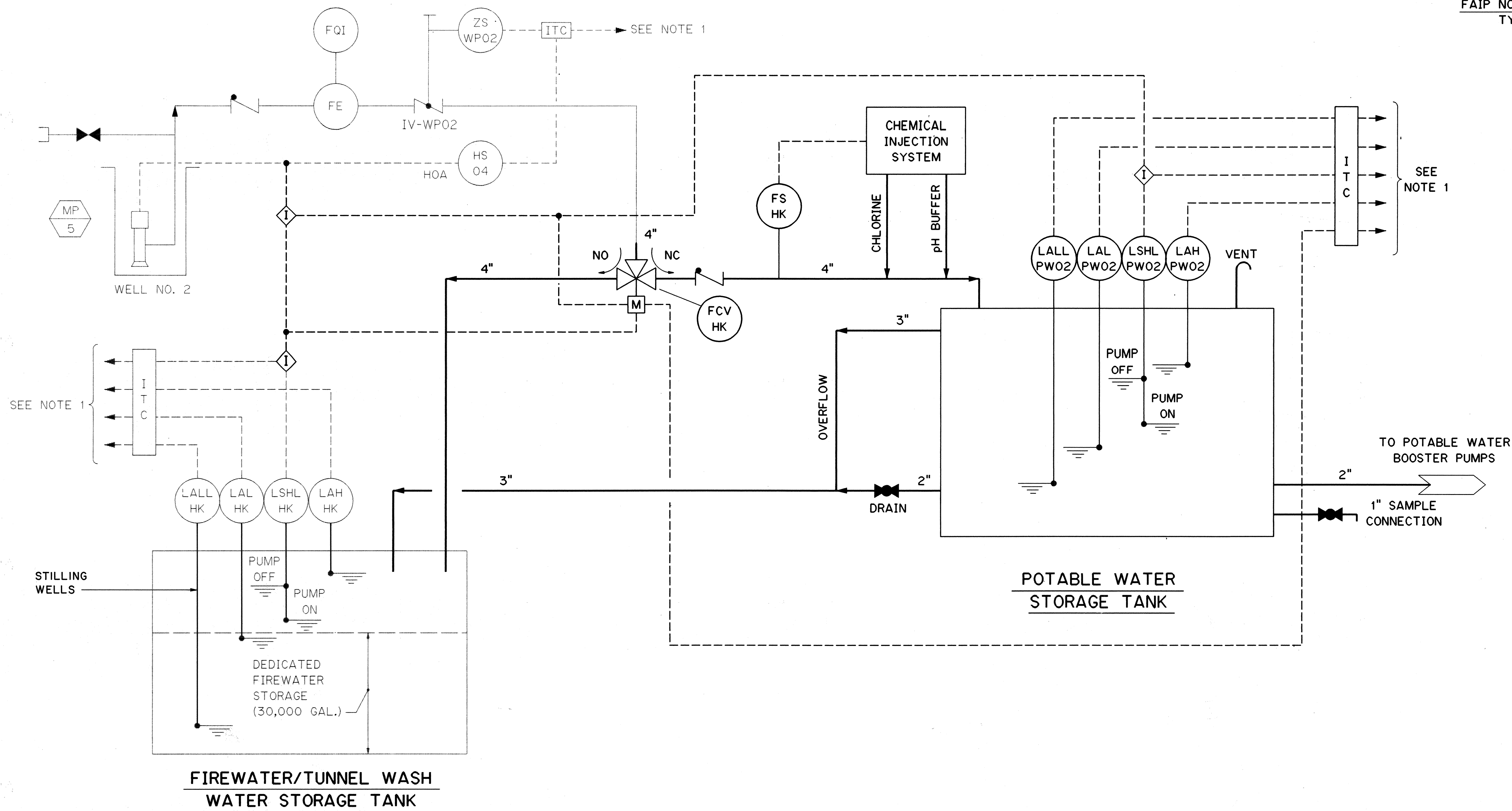
FOR DETAIL AS-BUILT INFORMATION
REFER TO CONSTRUCTION SUBMITTALS

10/13/95	ADDENDUM 1
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
HALAWA POTABLE WATER TREATMENT - P&ID COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL/ACCESS ROADS	
SCALE: NONE	DATE: JUN 1995
SHEET NO. 7M1 OF 16 SHEETS	



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

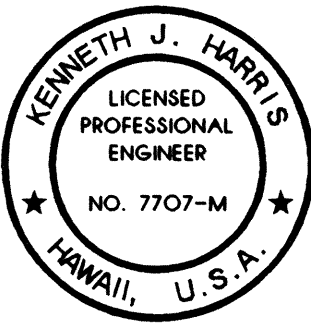
Kenneth J. Harris



NOTES:

- CONTROL TRANSMISSION TO TUNNEL FIRE PROTECTION SYSTEM DISPLAY.
- ITC INTERFACE TERMINAL CABINET (DUAL TERMINAL STRIP)
FOR DETAIL AS-BUILT INFORMATION REFER TO CONSTRUCTION SUBMITTALS

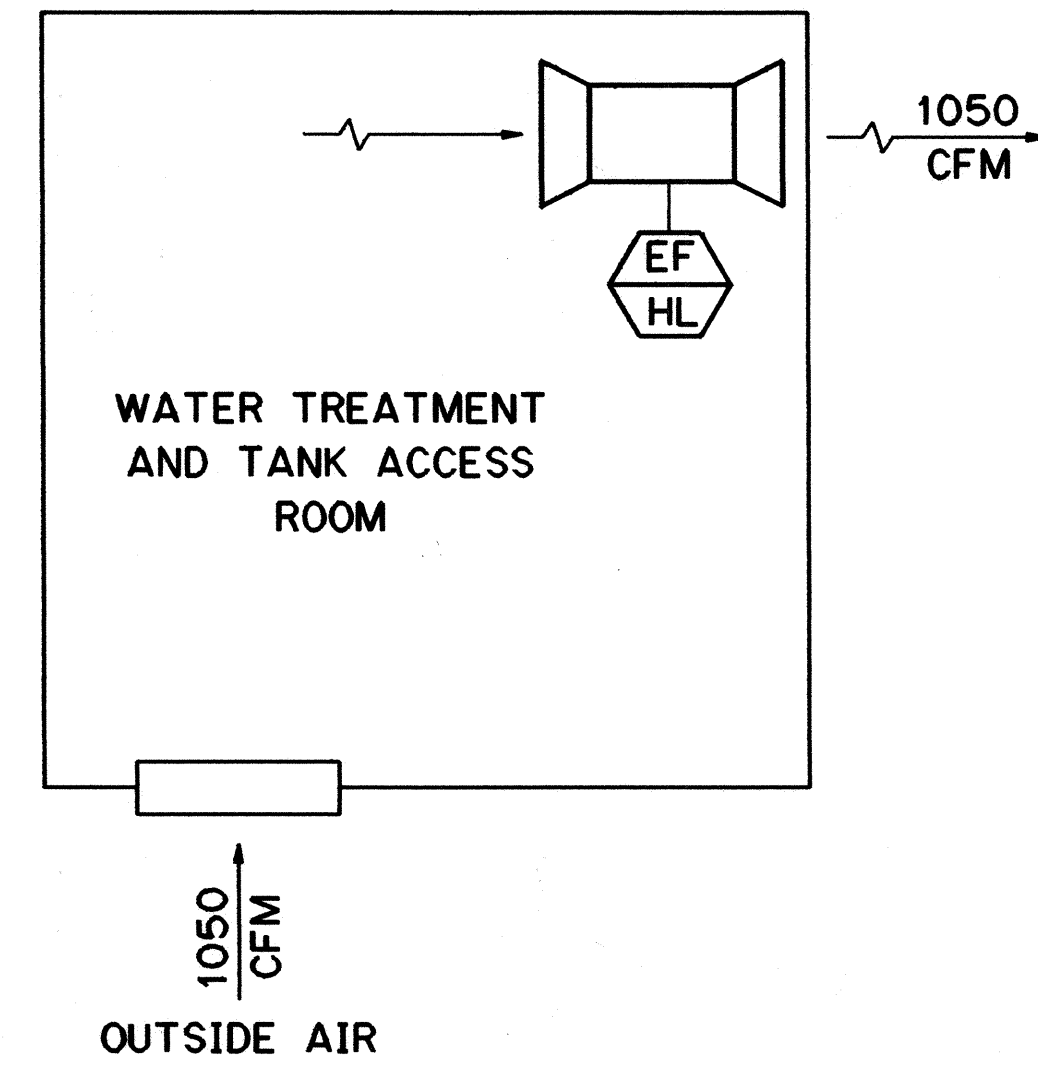
10/13/95	ADDENDUM 1
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
HAIKU POTABLE WATER TREATMENT - P&ID COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL/ACCESS ROADS	
SCALE: NONE	DATE: JUN 1995
SHEET NO. 7M2	OF 16 SHEETS



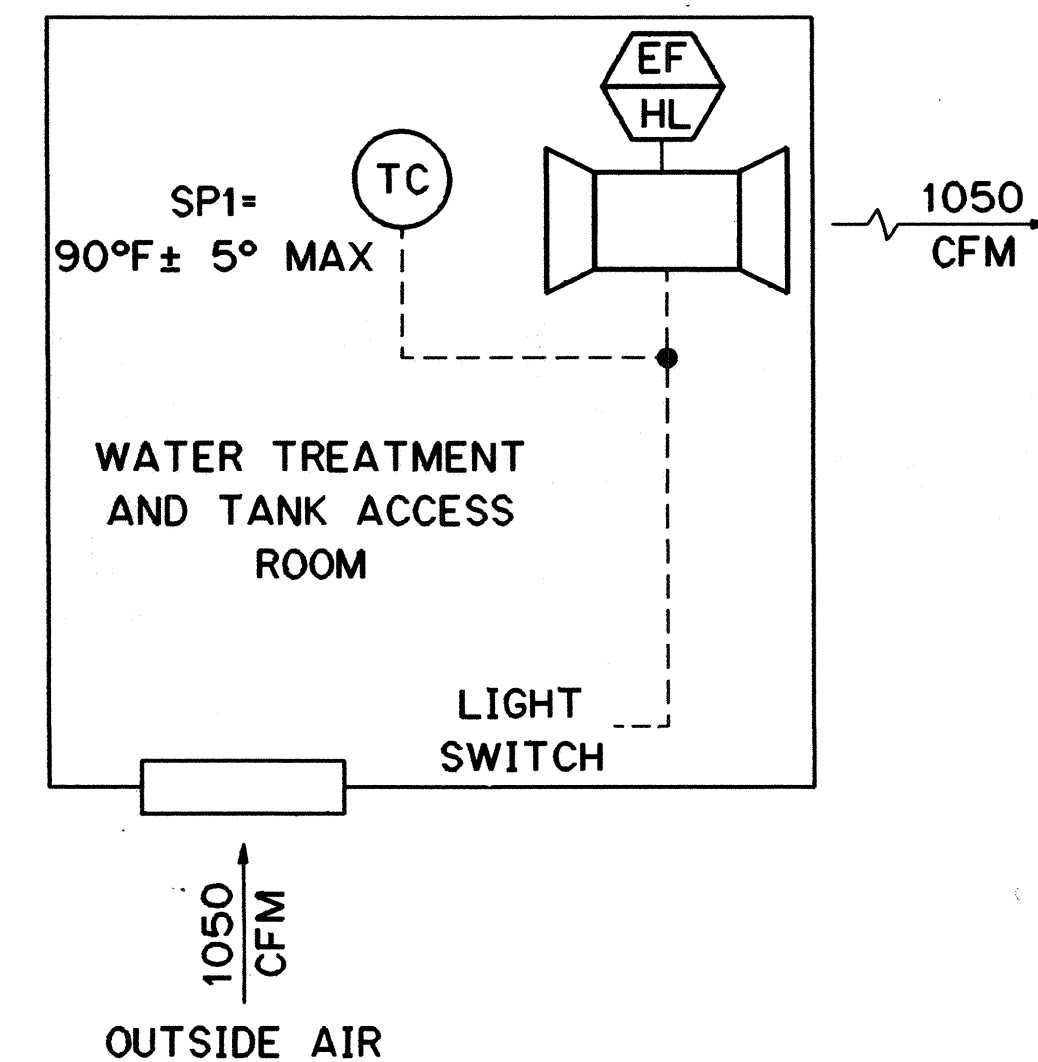
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Kenneth J. Harty

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	282	353

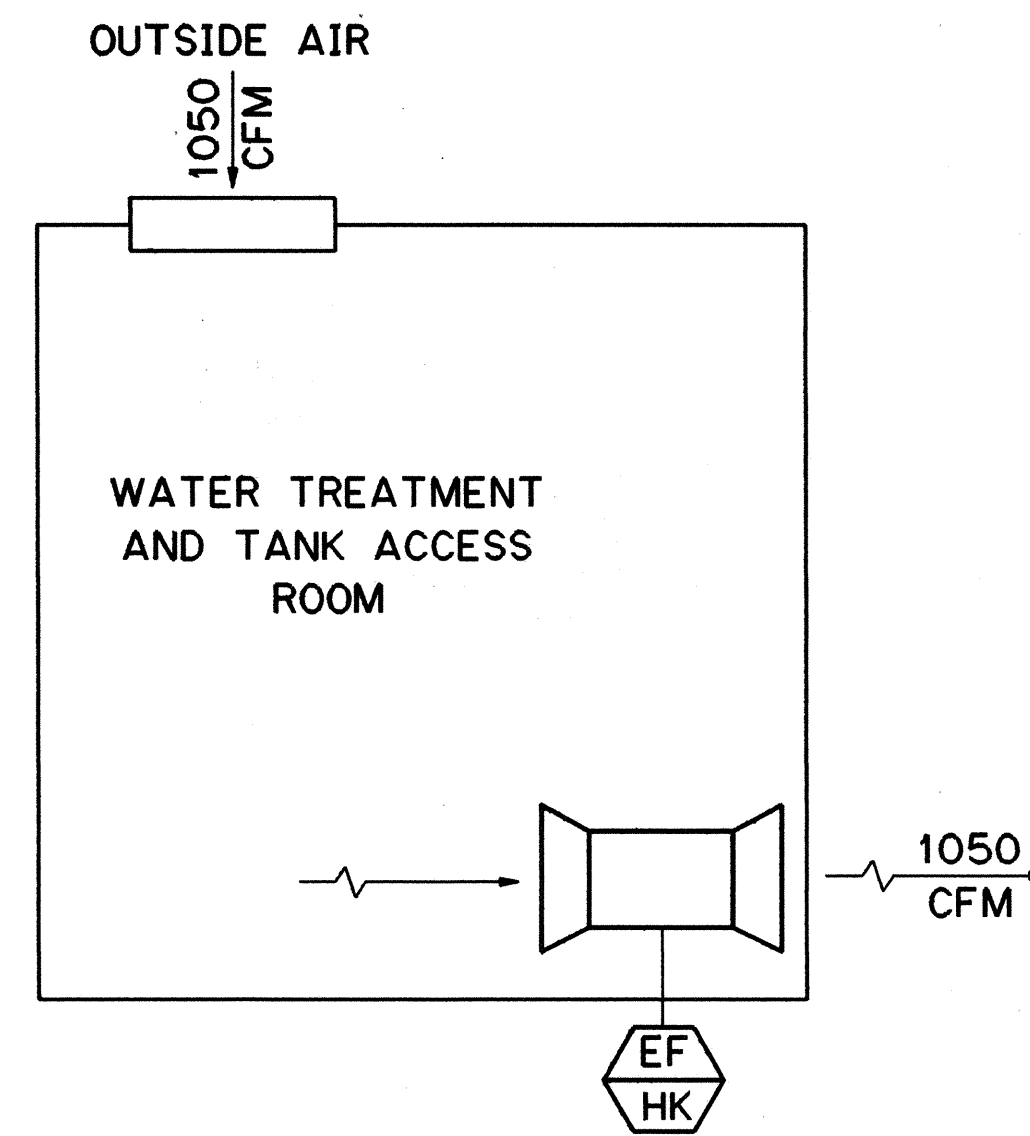


AIRFLOW DIAGRAM

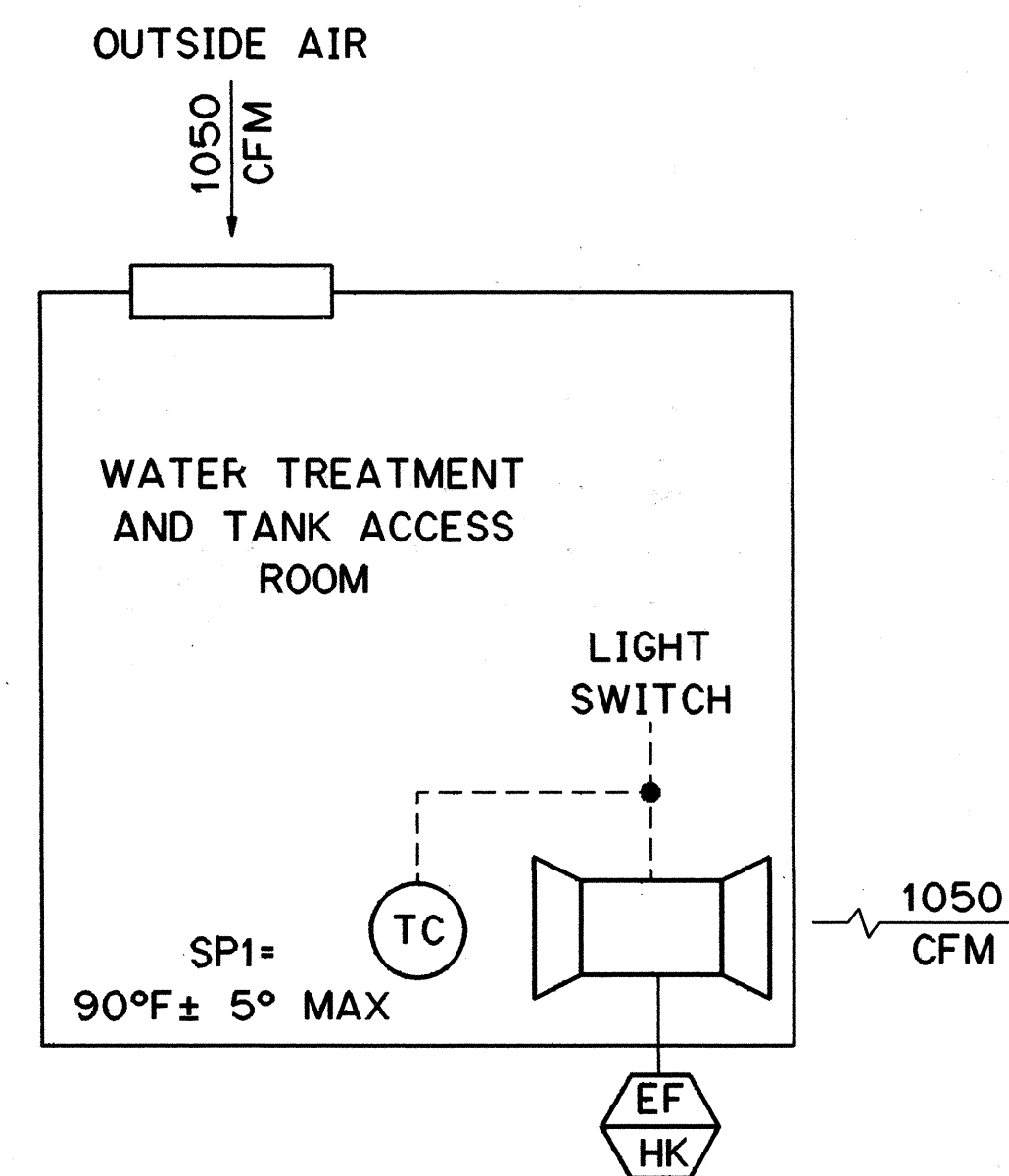


CONTROL DIAGRAM

HALAWA PORTAL BUILDING - IB



AIRFLOW DIAGRAM



CONTROL DIAGRAM

HAIKU PORTAL BUILDING - 0B

FAN SCHEDULE																	
EQUIPMENT NUMBER	SERVICE	ARRANGEMENT	CLASS	DRIVE	WHEEL			PERFORMANCE		MOTOR				ISOLATOR BASE		REMARKS	
					DIAMETER (INCHES)	TYPE	RPM	AIR CAPACITY	STATIC H ₂ O PRESS IN.	NAME PLATE HP	RPM	VOLTS	PHASE	HERTZ	TYPE		STATIC DEFLEC IN.
								ACFM									
EF-HL	WATER TREATMENT AND TANK ACCESS ROOM	-	-	DIRECT	-	CENTRIFUGAL IN-LINE	-	1200	0.375	¼	-	120	1	60	-	-	
EF-HK																	

- NOTES:**

1. PROVIDE 1/2 INCH WIRE MESH GALVANIZED SCREEN FOR ALL OPEN DUCT OR EQUIPMENT INTAKE/DISCHARGE OPENINGS. PROVIDE FRAMING NECESSARY FOR SCREEN SUPPORT ON LARGE OPENINGS.
2. THERMOSTATS SHALL BE MOUNTED AT A HEIGHT OF 3'-4, NEAR A LIGHT SWITCH.
3. STATIC PRESSURE IS IN INCHES WATER COLUMN.

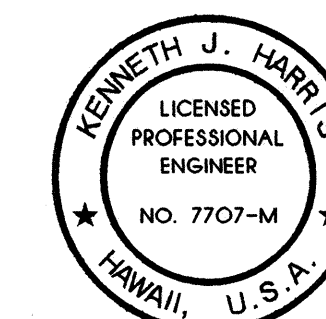
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WATER TREATMENT/TANK
ACCESS ROOM VENTILATION
COMMON WORK
H-3 FINISH (UNIT III)
FAIP NO. I-H3-1(75), UNIT III
T.K. TUNNEL/ACCESS ROADS

SCALE: NONE DATE: JUN 1995

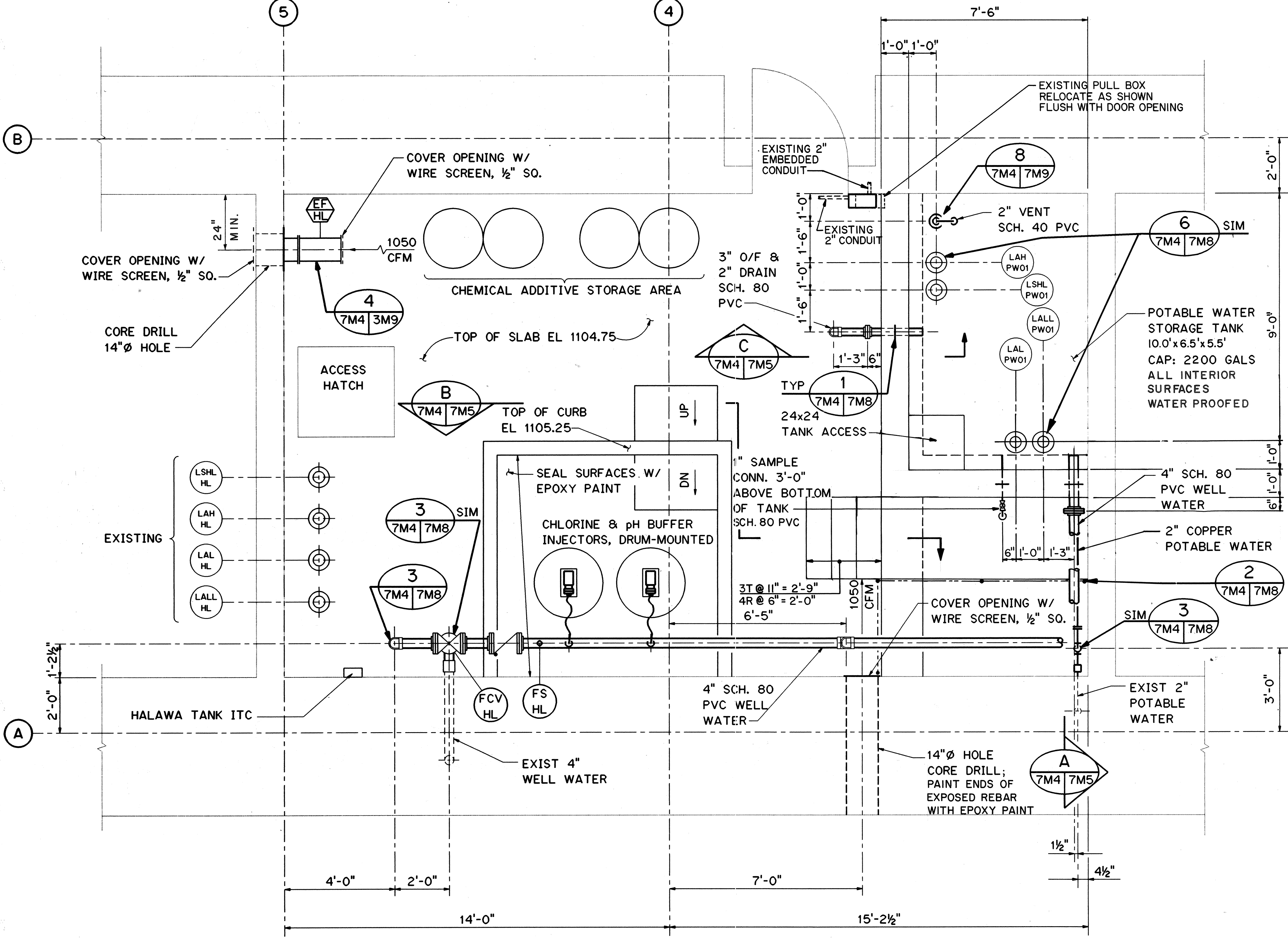
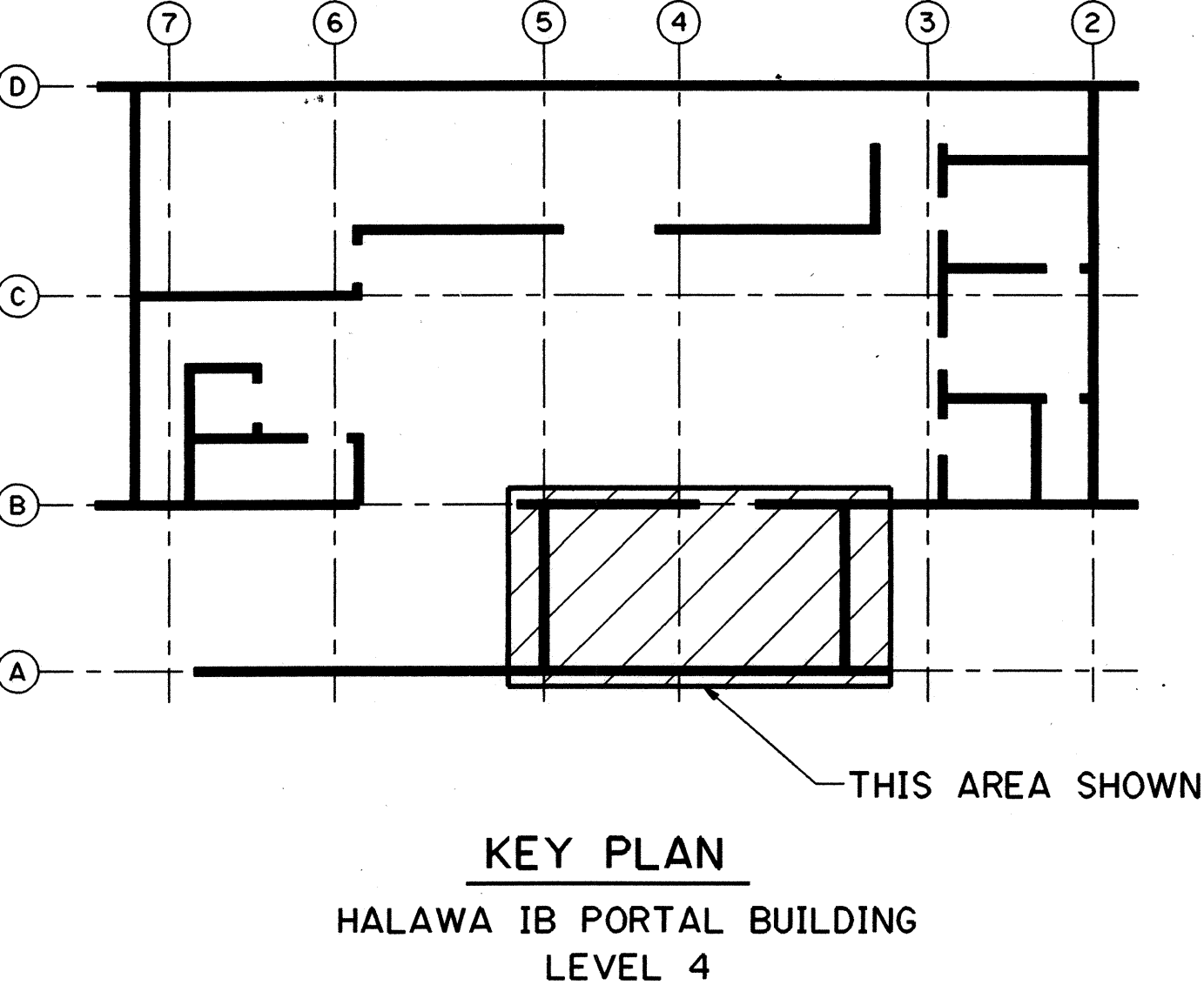
SHEET NO. **7M3** OF **16** SHEETS



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

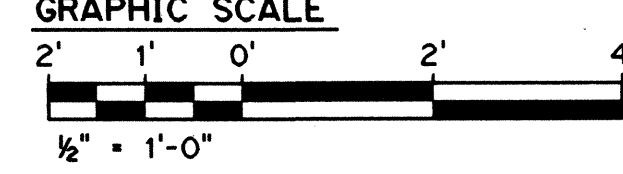
Kenneth Ha-

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	283	353



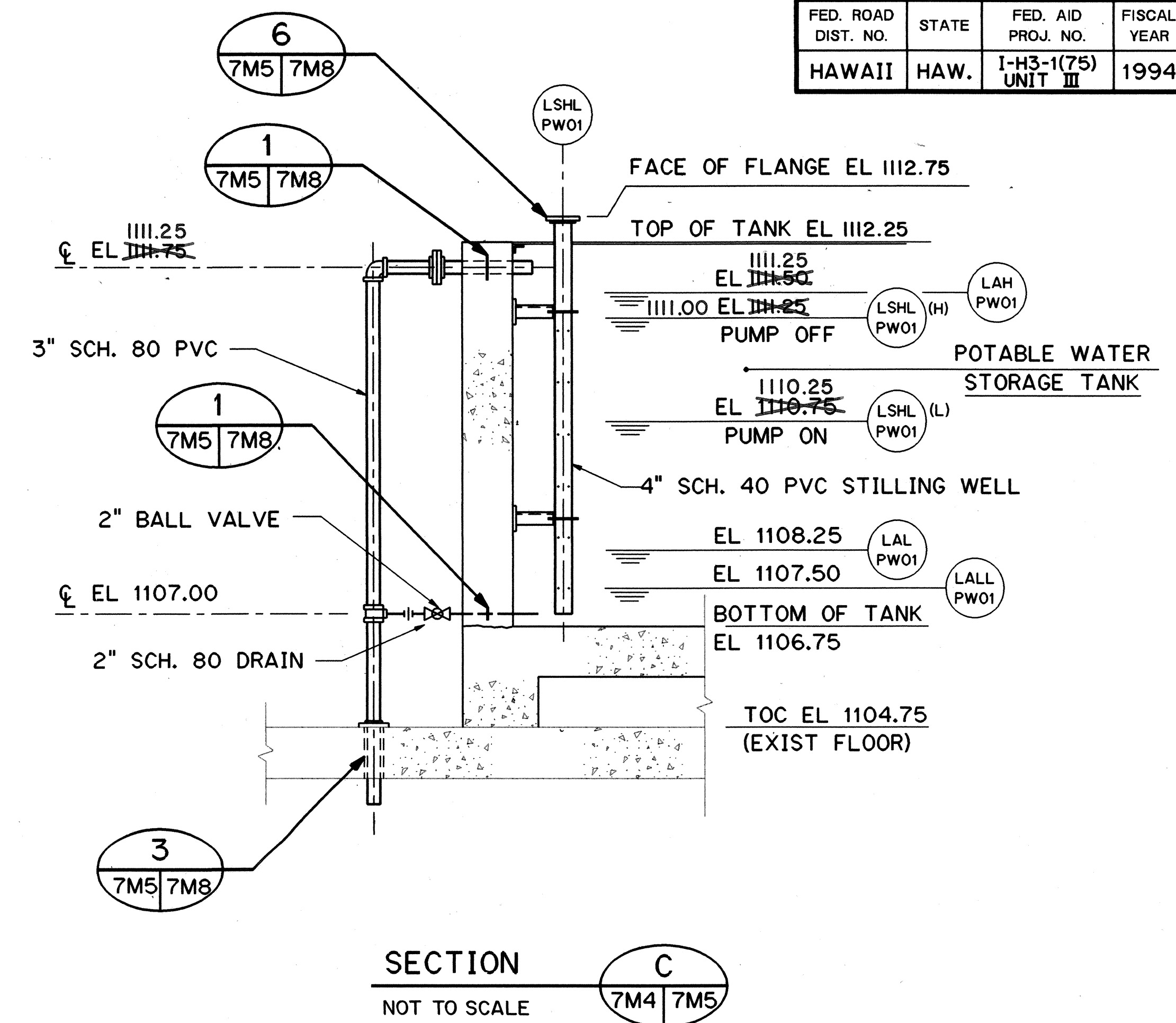
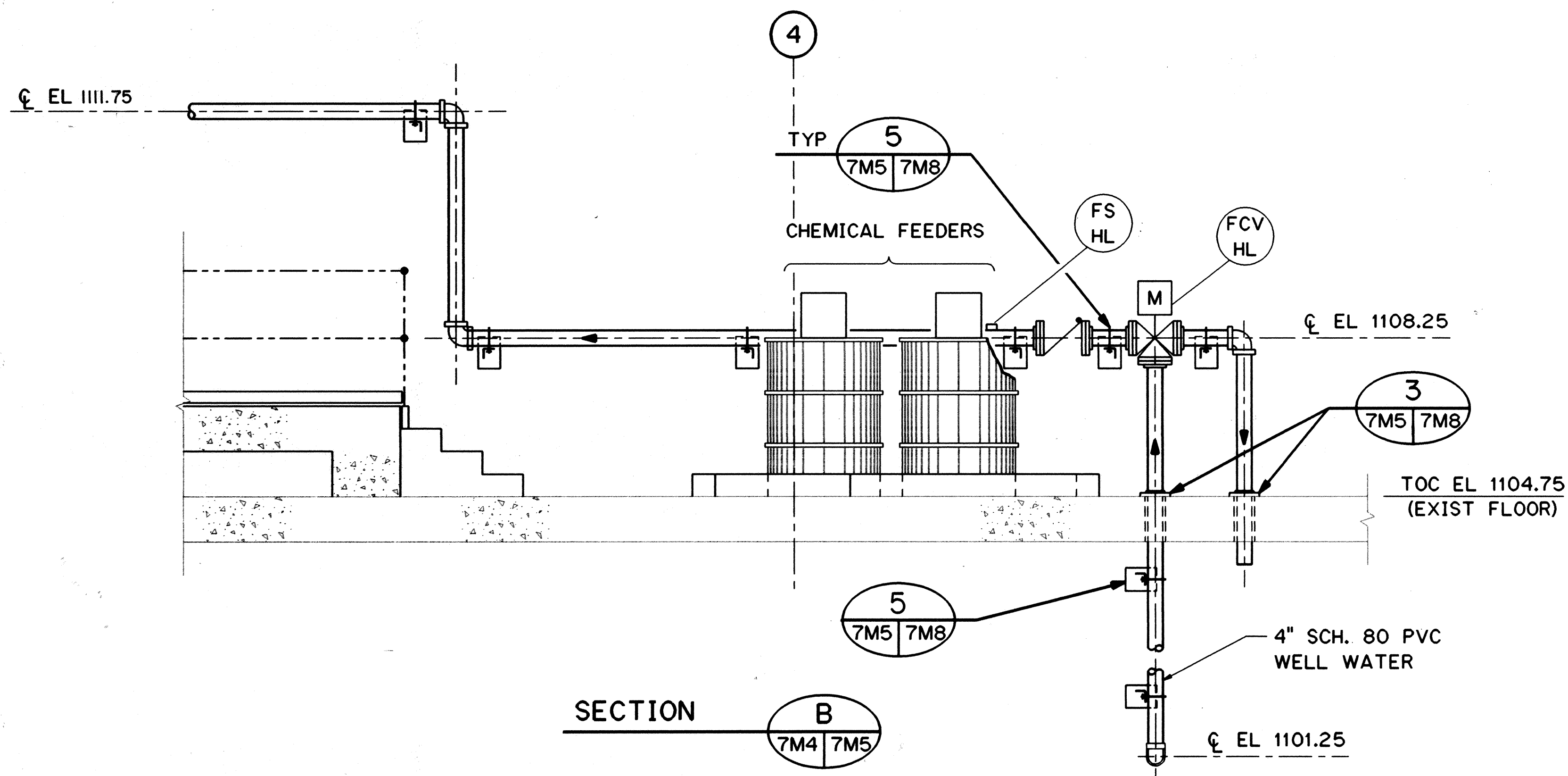
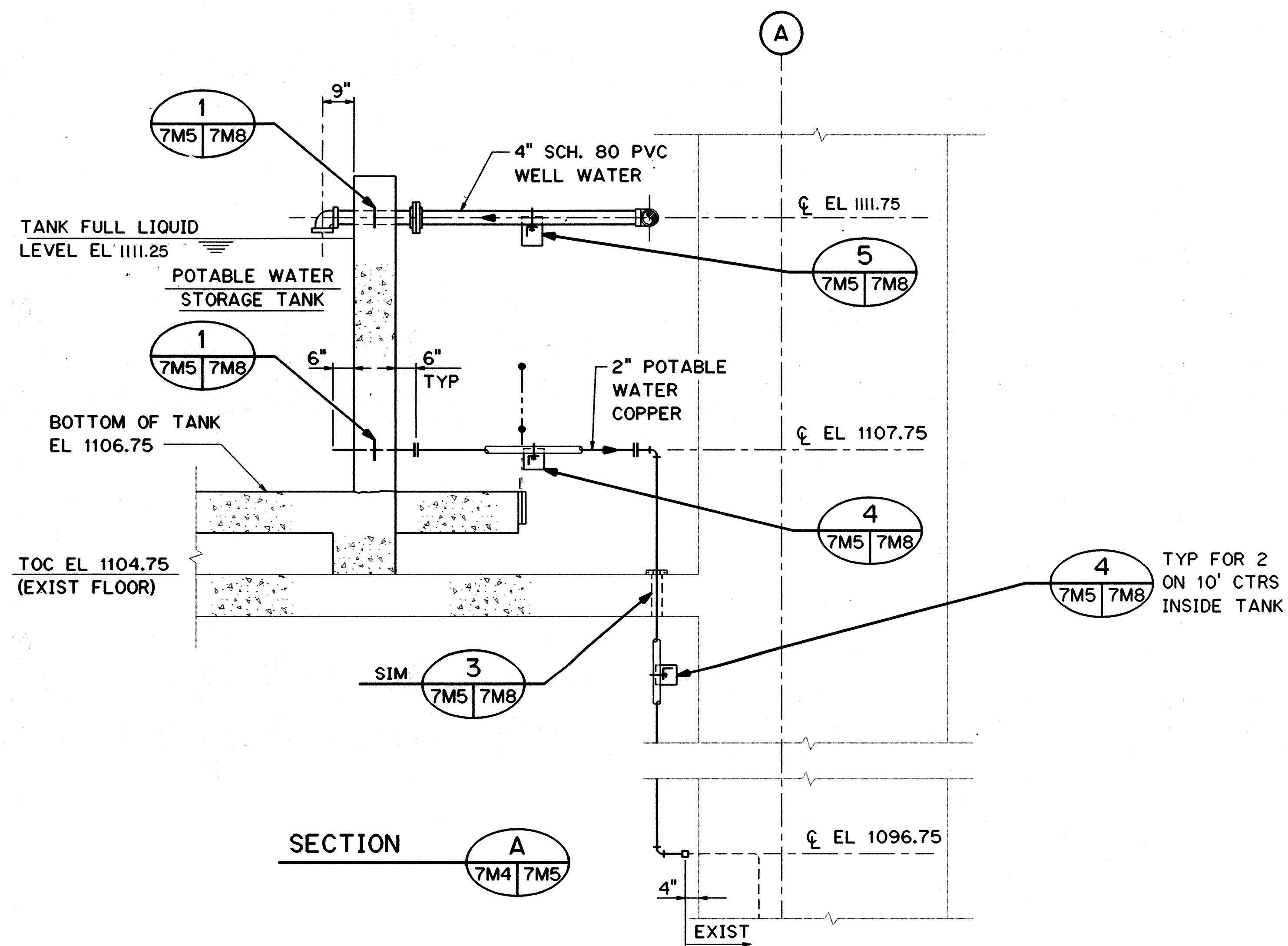
DATE	REVISION
2/3/97	DCN 75-011: REVISED WATER TANK DIM. AND RELOCATED PULL BOX PER RESPONSE TO RFI # 4097-177
10/13/95	ADDENDUM 1
DATE	REVISION
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HALAWA POTABLE WATER TREATMENT - PLAN COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL/ACCESS ROADS SCALE: 1/2" = 1'-0" DATE: JUN 1995 SHEET NO. 7M4 OF 16 SHEETS	

KENNETH J. HARRIS
 LICENSED PROFESSIONAL ENGINEER
 NO. 7707-M
 HAWAII, U.S.A.
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Kenneth J. Harris



DATE	REVISION
2/3/97	DCN 75-011: REVISED WATER TANK DIM. AND RELOCATED PULL BOX PER RESPONSE TO RFI # 4097-177
10/13/95	ADDENDUM 1
DATE	REVISION
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HALAWA POTABLE WATER TREATMENT - PLAN COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL/ACCESS ROADS SCALE: 1/2" = 1'-0" DATE: JUN 1995 SHEET NO. 7M4 OF 16 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	284	353



2/3/97	DCN 75-011: REVISED PIPING AND LEVEL SWITCH ELEVATIONS PER RESPONSE TO RFI # 4097-177
10/27/95	ADDENDUM 2- CHANGED PIPE SUPT. DET. 1 SIM. TO DETAIL 5 IN SECT. B
DATE	REVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

HAWAII POTABLE WATER

TREATMENT - SECTIONS

COMMON WORK

H-3 FINISH (UNIT III)

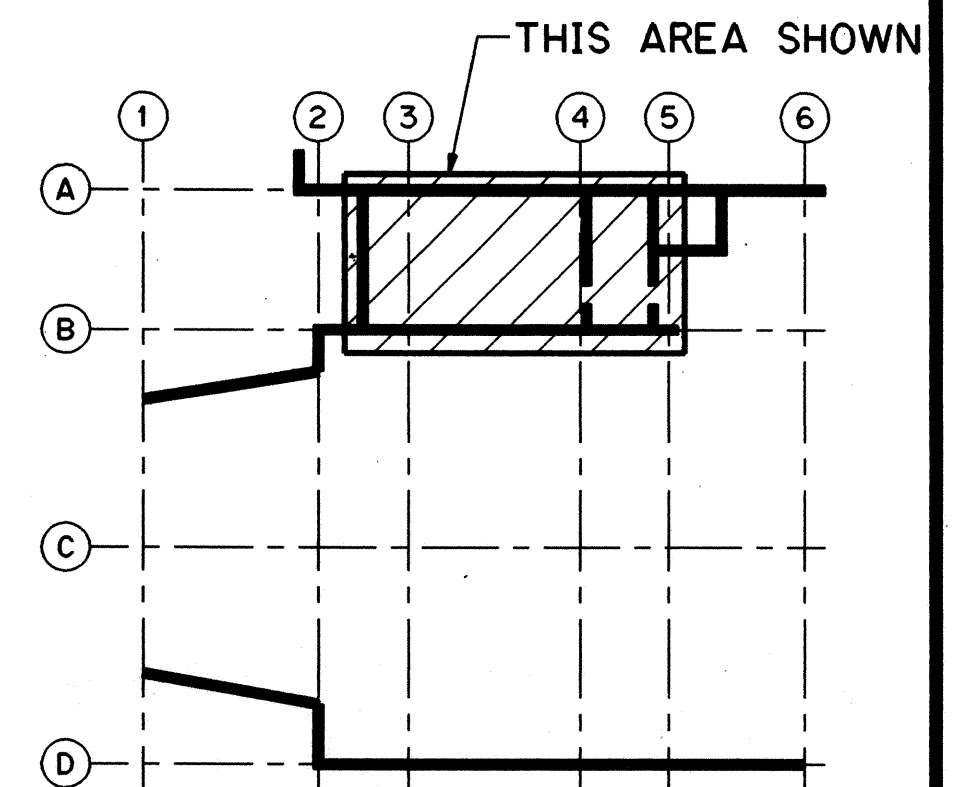
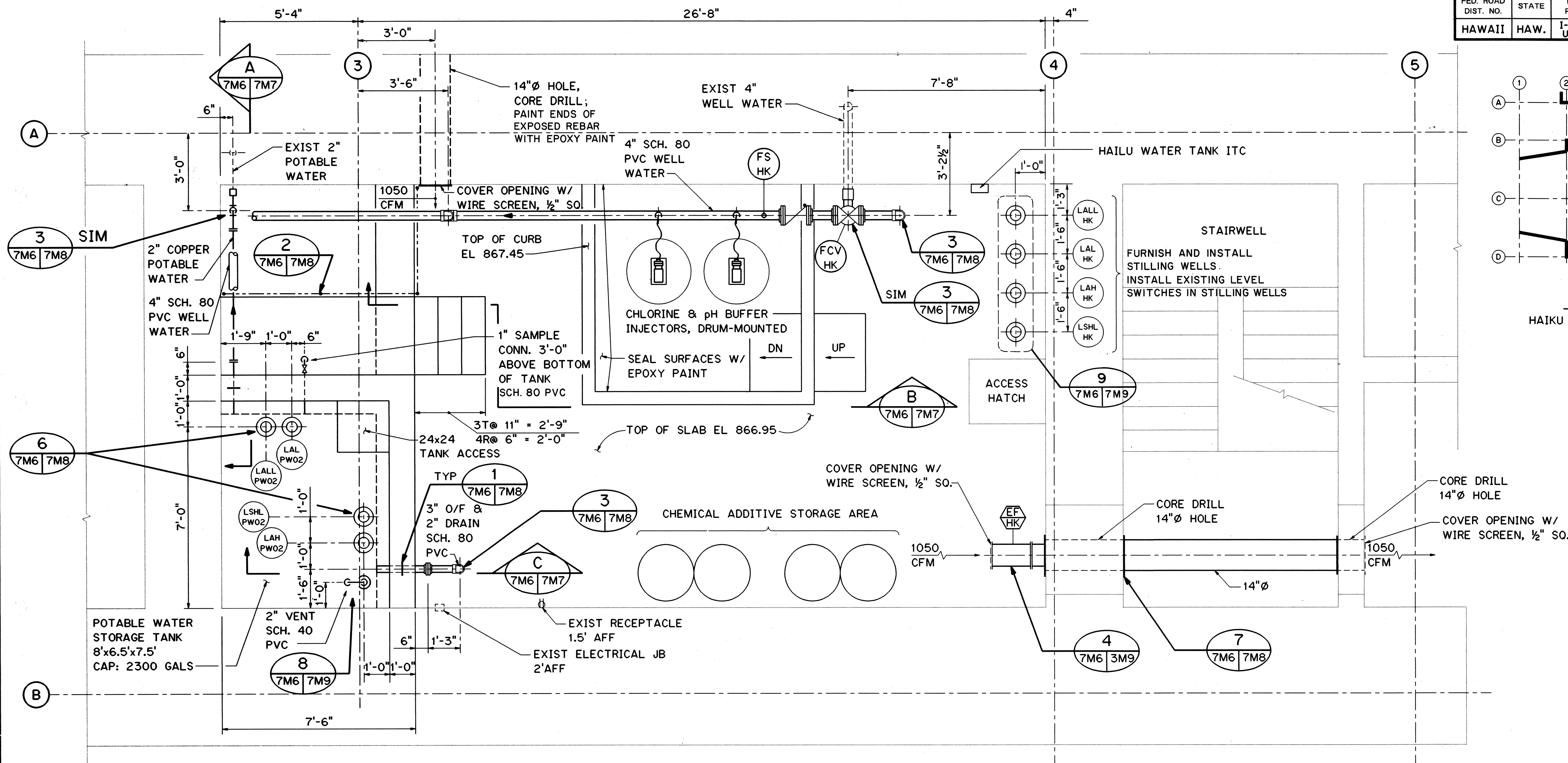
FAIP NO. I-H3-1(75), UNIT III

T.K. TUNNEL/ACCESS ROADS

SCALE: 1/2" = 1'-0" DATE: JUN 1995

SHEET NO. 7M5 OF 16 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-(175) UNIT III	1994	285	353



KEY PLAN
HAIKU OB PORTAL BUILDING
LEVEL 2

PLAN

10/13/95	ADDENDUM 1
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HAIKU POTABLE WATER

TREATMENT - PLAN

COMMON WORK

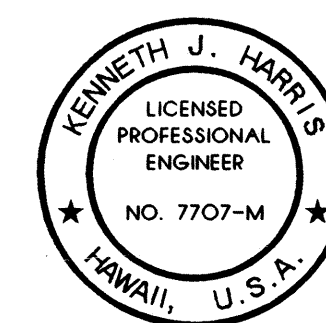
H-3 FINISH (UNIT III)

FAIP NO. I-H3-1(75), UNIT III

T.K. TUNNEL/ACCESS ROADS

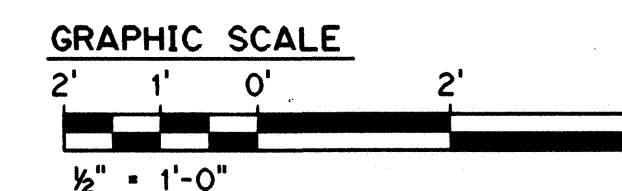
SCALE: 1/2" = 1'-0" DATE: JUN 1995

SHEET NO. 7M6 OF 16 SHEETS



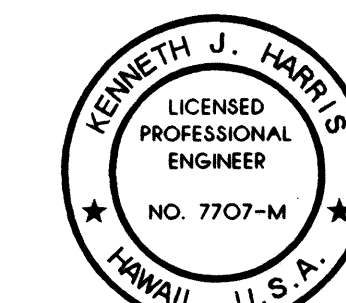
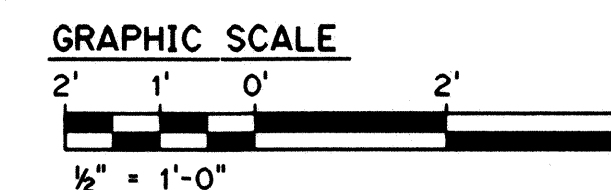
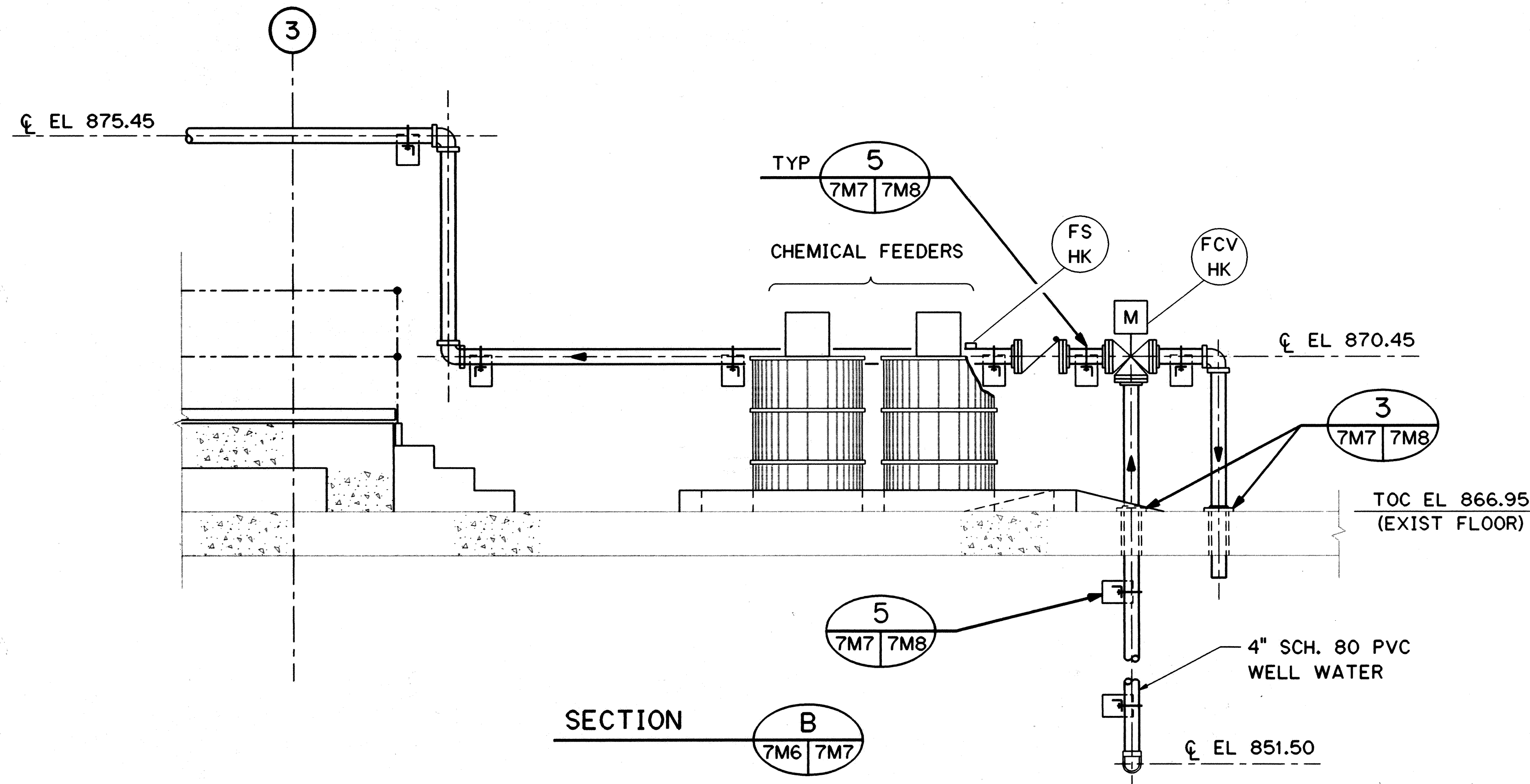
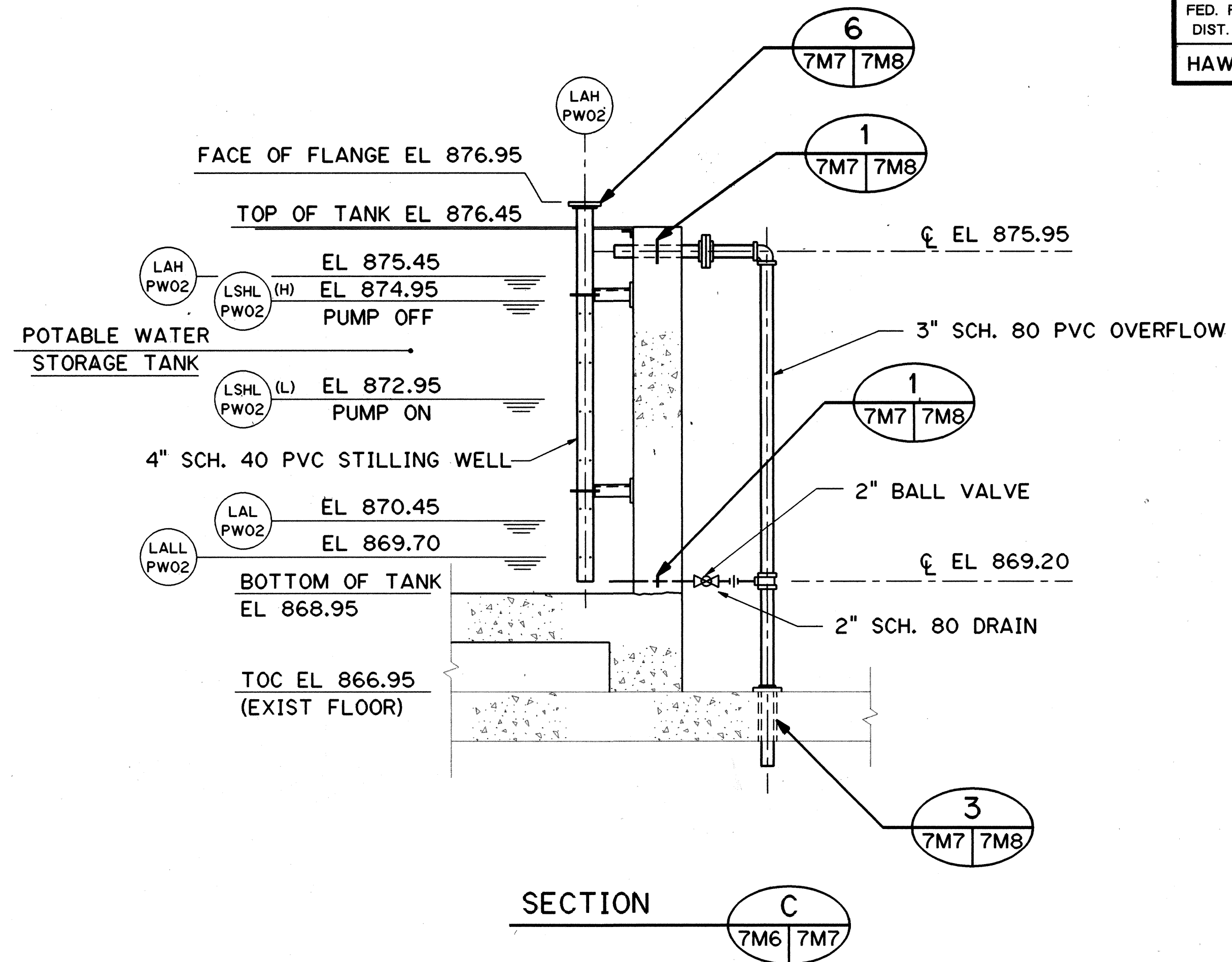
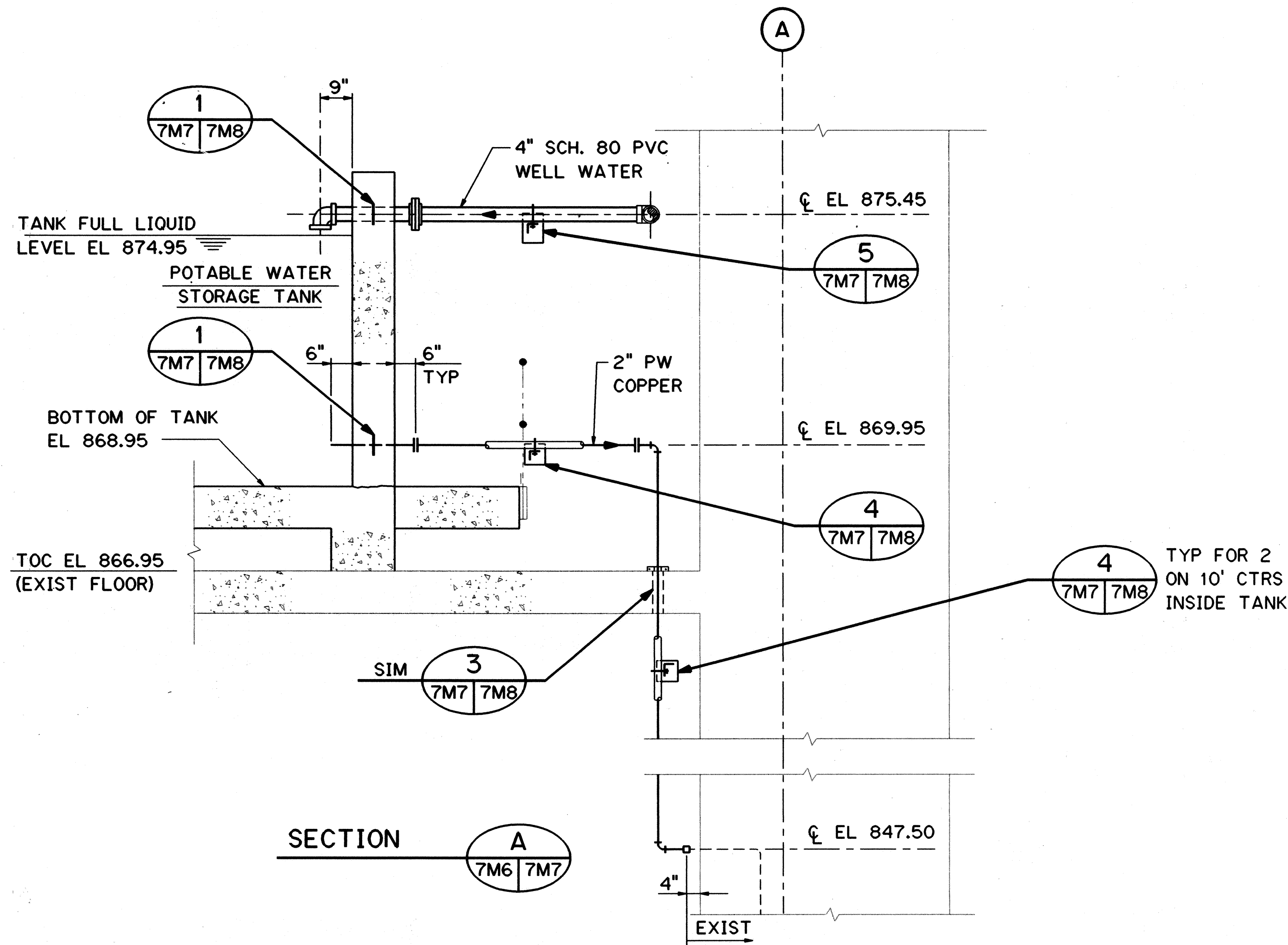
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Kennet Alton



ORIGINAL PLAN	SURVEY PLOTTED BY _____		DATE _____
	DRAWN BY _____	T. BURNS	MAR 95
NOTE BOOK	TRACED BY _____		
	DESIGNED BY _____	D. ORDEN	MAR 95
	QUANTITIES BY _____		
NO. _____	CHECKED BY _____		MAR 95

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	286	353



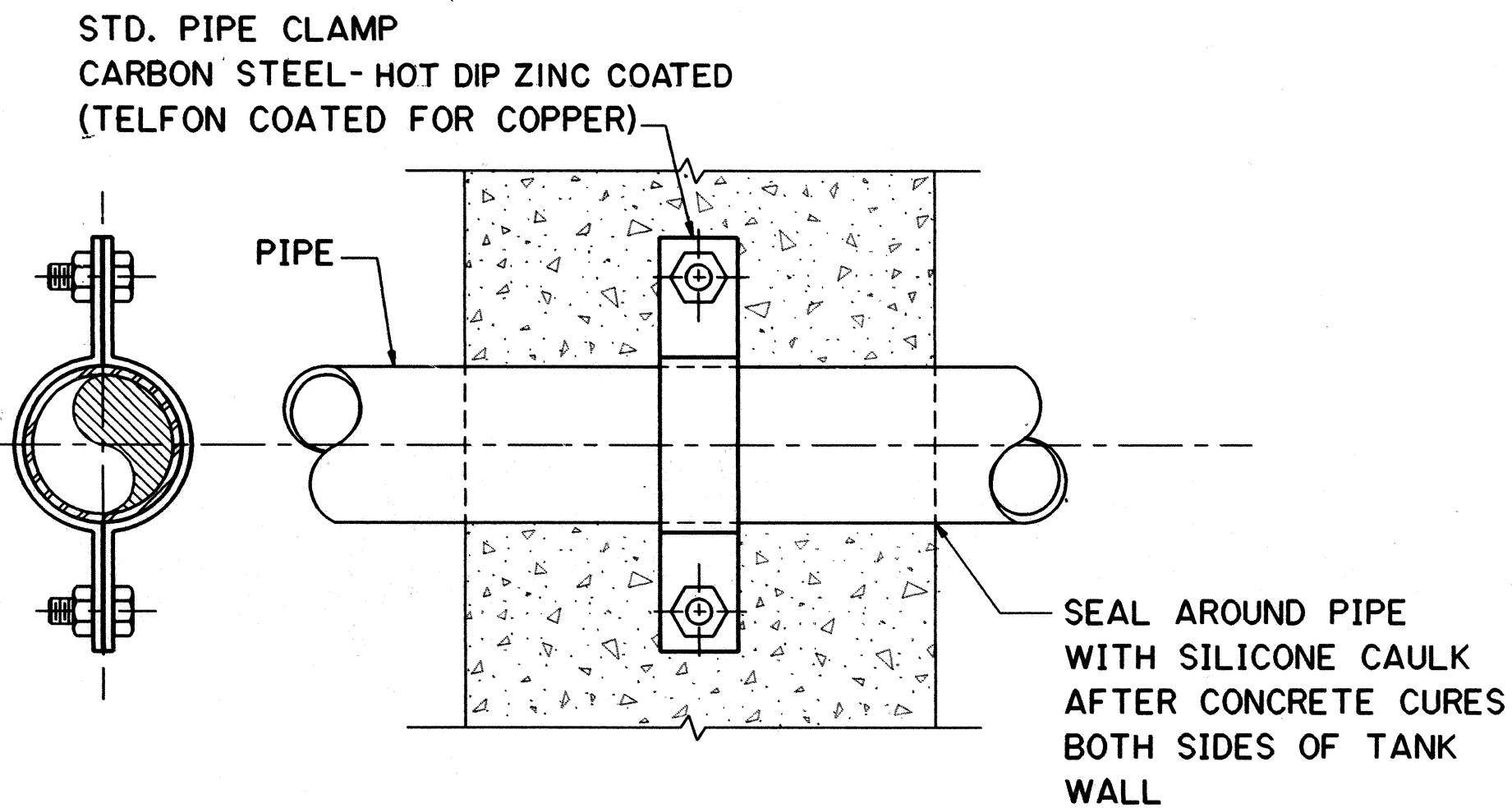
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Kenneth J. Harris

10/27/95	ADDENDUM 2-CHANGED PIPE SUPT. DETAIL 1 SIM. TO DETAIL 5 IN SECT. B
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HAIKU POTABLE WATER TREATMENT - SECTIONS COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL/ACCESS ROADS SCALE: 1/2" = 1'-0" DATE: JUN 1995	
SHEET NO. 7M7	OF 16 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	287	353

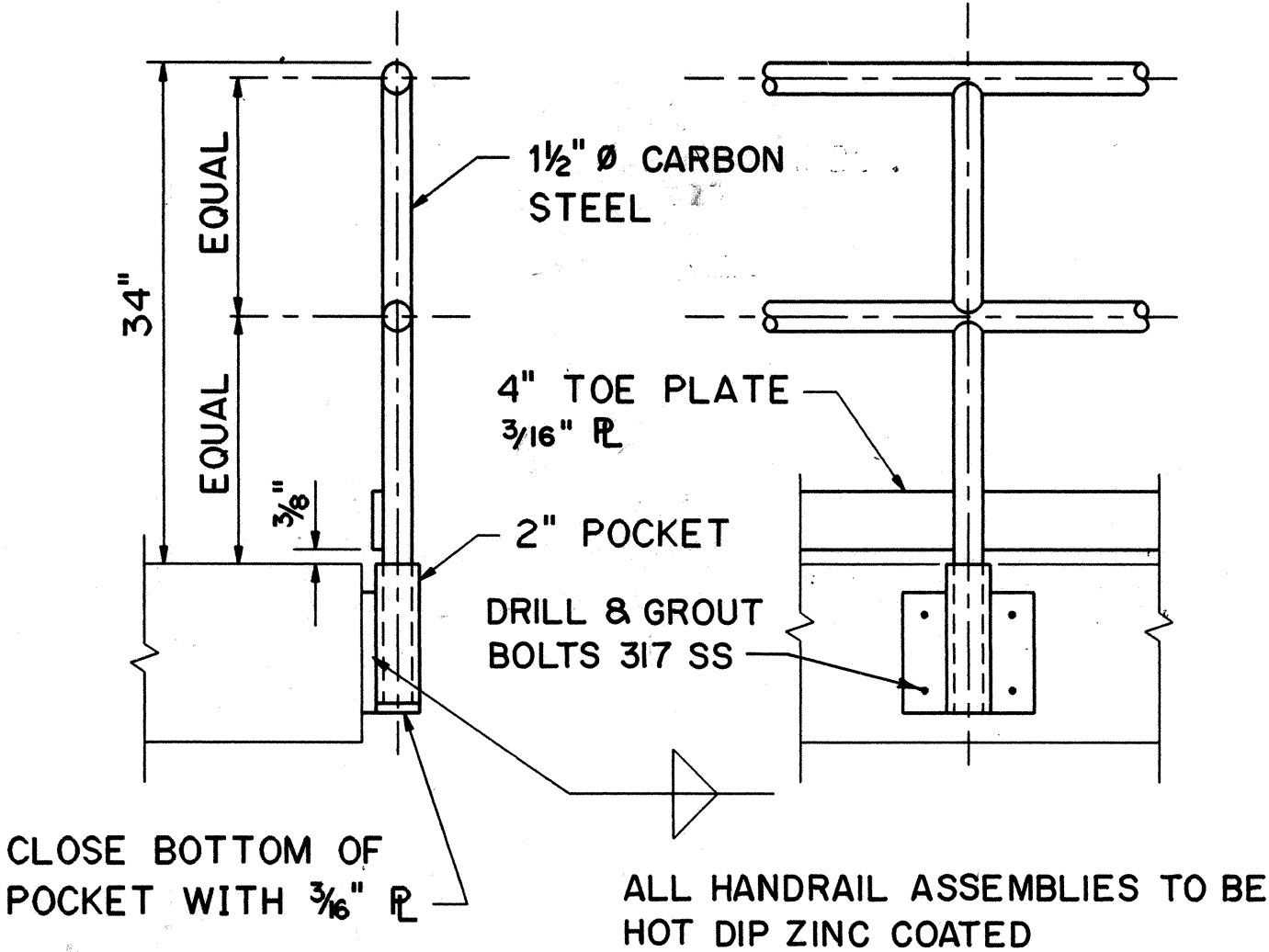
NOM. PIPE SIZE	PIPE O.D.	FLOOR OPENING
2"	2.375"	3.5"
3"	3.5"	4.5"
4"	4.5"	5.5"



EMBEDDED PIPE WALL
ANCHOR DETAIL

SCALE: 3" = 1'-0"

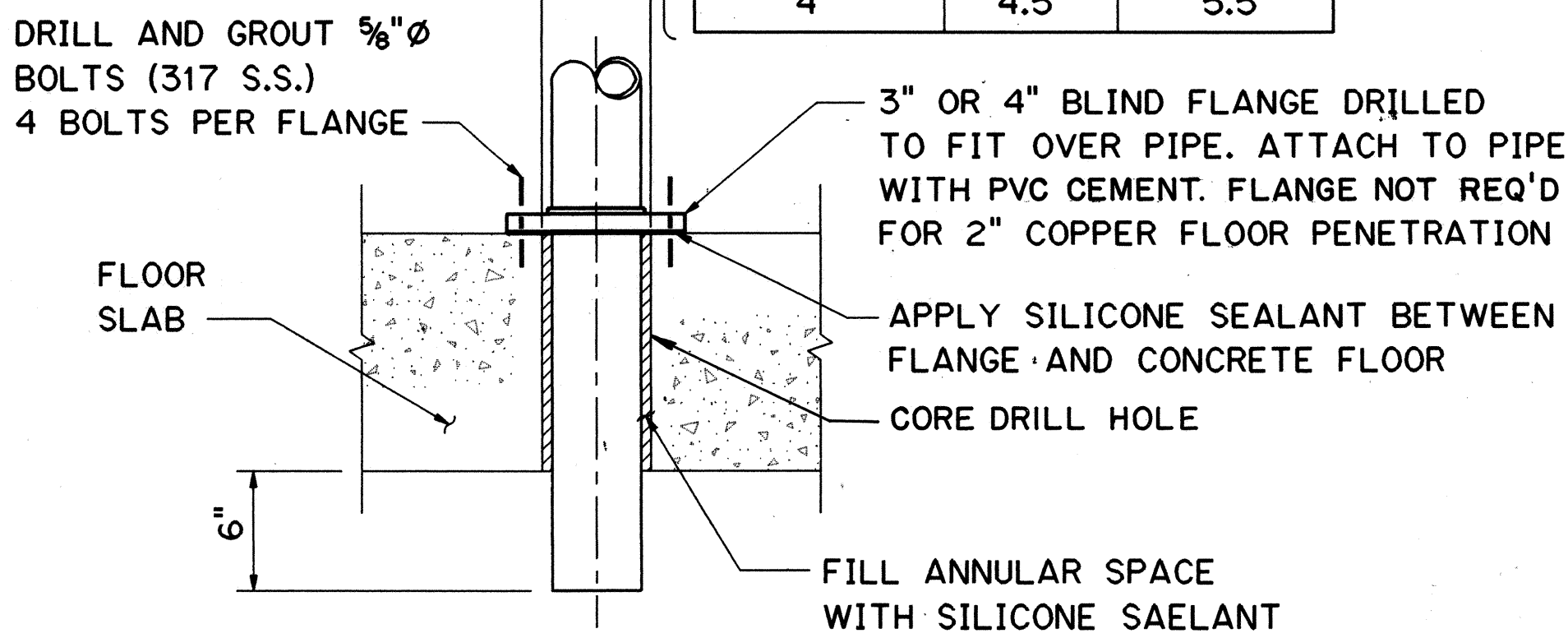
1
7M4 7M8
7M5
7M6
7M7



REMOVABLE HANDRAIL
DETAIL

SCALE: 1" = 1'-0"

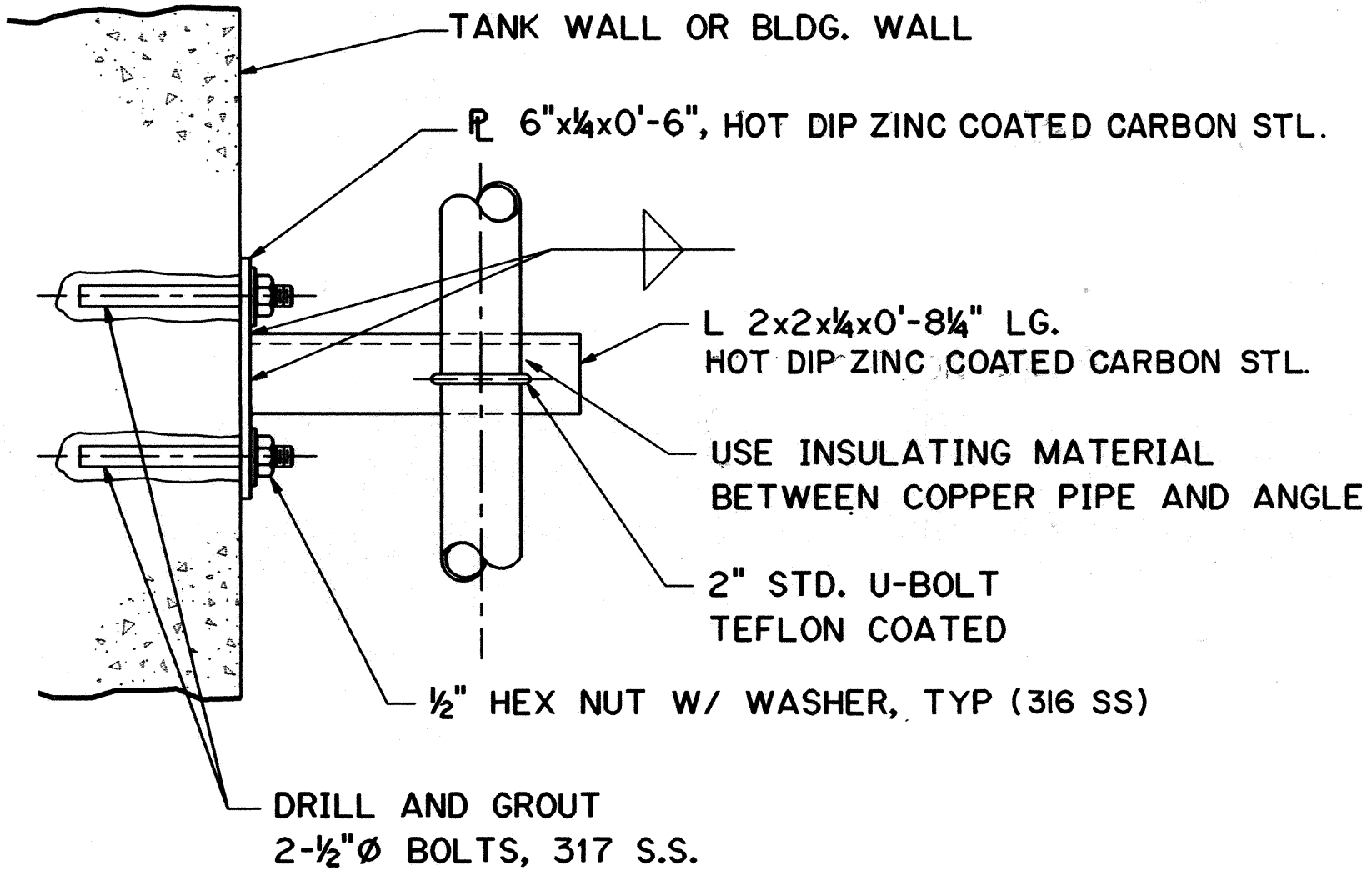
2
7M4 7M8
7M6



FLOOR PENETRATION
SEAL DETAIL

SCALE: 1 1/2" = 1'-0"

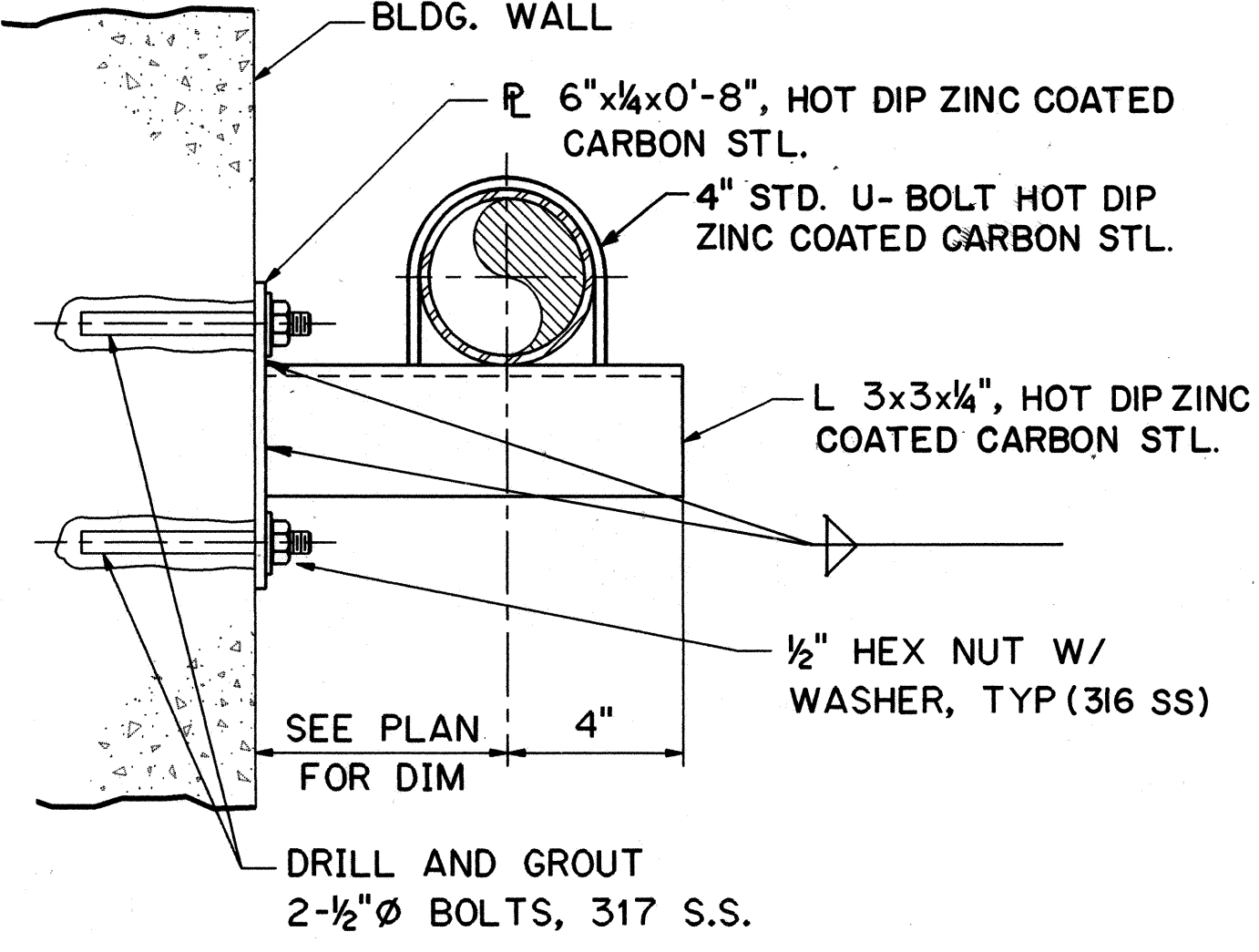
3
7M4 7M8
7M5
7M6
7M7



DETAIL

SCALE: 3" = 1'-0"

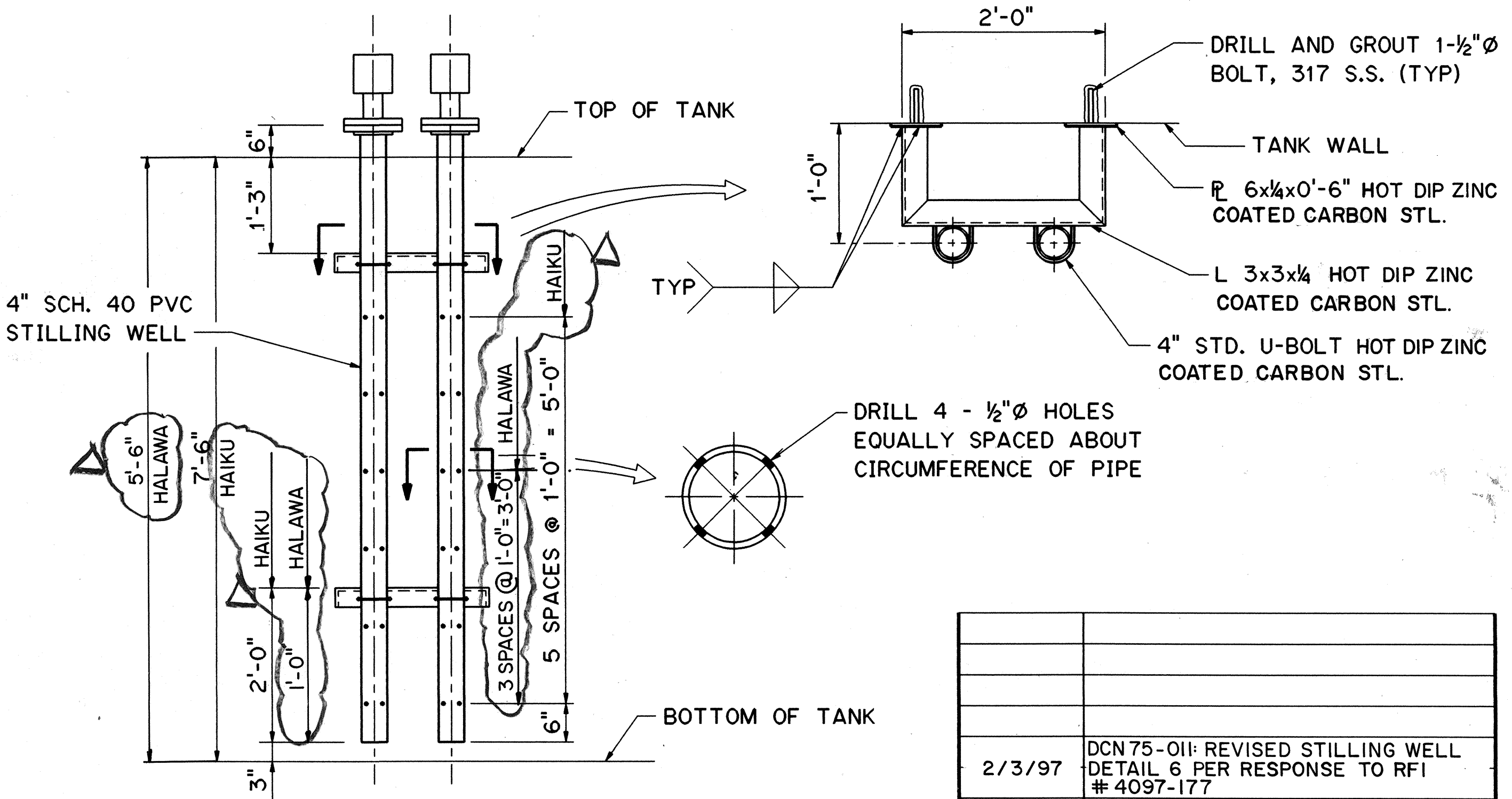
4
7M5 7M8
7M7



DETAIL

SCALE: 3" = 1'-0"

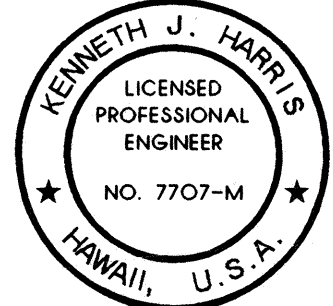
5
7M5 7M8
7M7



LEVEL SWITCH AND ALARM
MOUNTING DETAIL

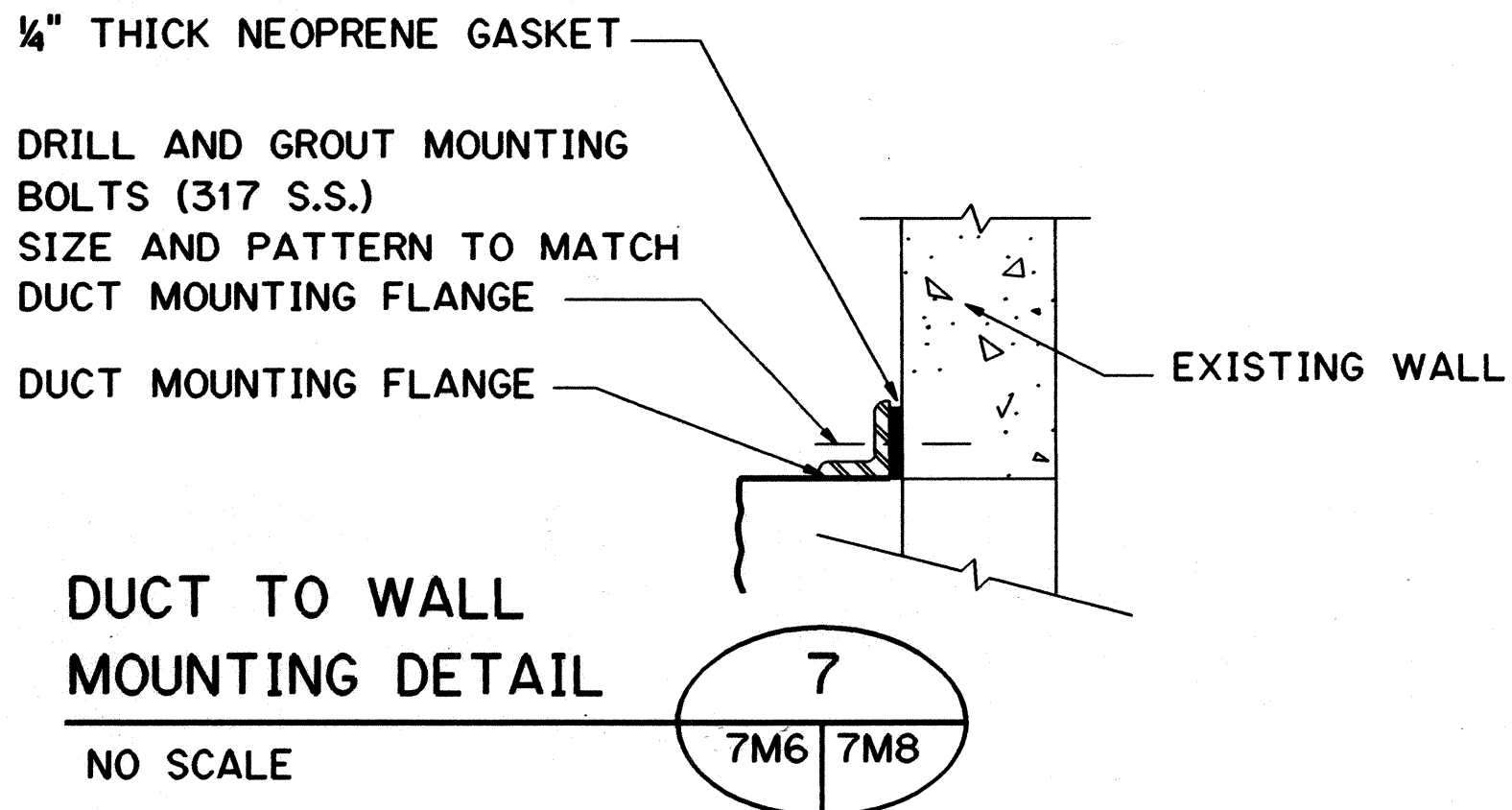
SCALE: 3/4" = 1'-0"

6
7M4 7M8
7M5
7M6
7M7



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Kenneth J. Harris

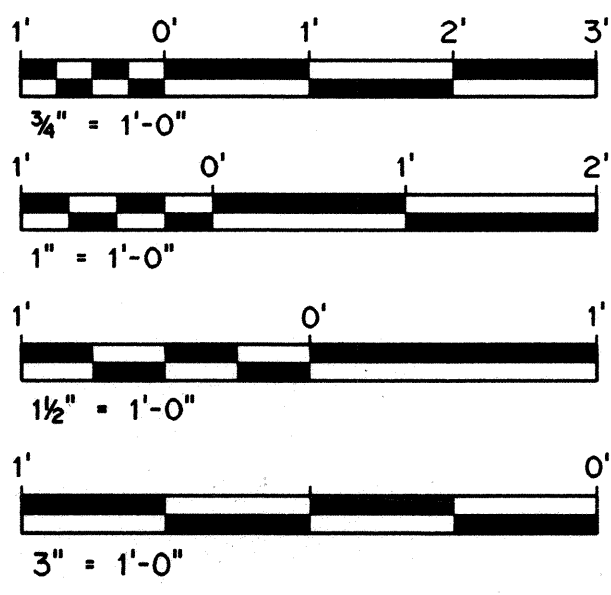


DUCT TO WALL
MOUNTING DETAIL

NO SCALE

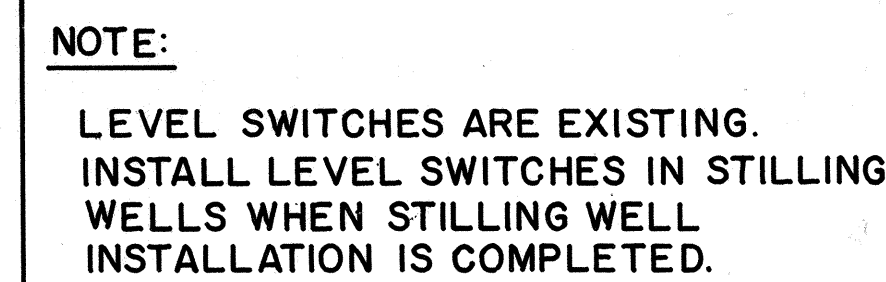
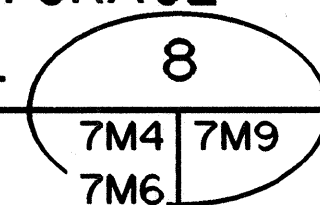
7
7M6 7M8

GRAPHIC SCALES

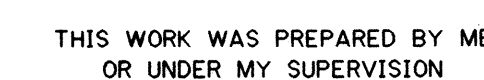


DATE	REVISION
2/3/97	DCN 75-011: REVISED STILLING WELL DETAIL 6 PER RESPONSE TO RF1 #4097-177
10/13/95	ADDENDUM I
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION POTABLE WATER TREATMENT - DETAILS 1 COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL/ACCESS ROADS SCALE: AS SHOWN DATE: JUN 1994 SHEET NO. 7M8 OF 16 SHEETS	

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	MAR 95
	TRACED BY	"
	DESIGNED BY	MAR 95
	QUANTITIES BY	"
NO.	CHECKED BY	MAR 95
	K. HARRIS	"

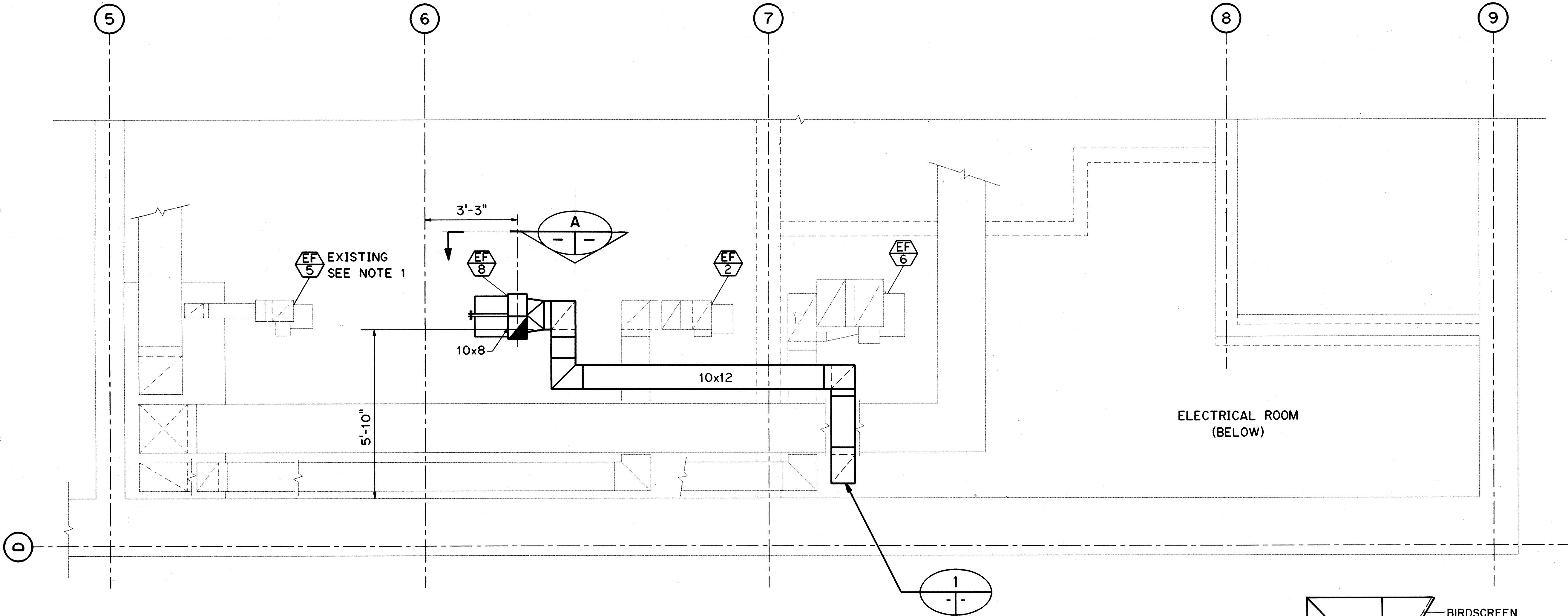


$$\frac{9}{7M6 \mid 7M9}$$

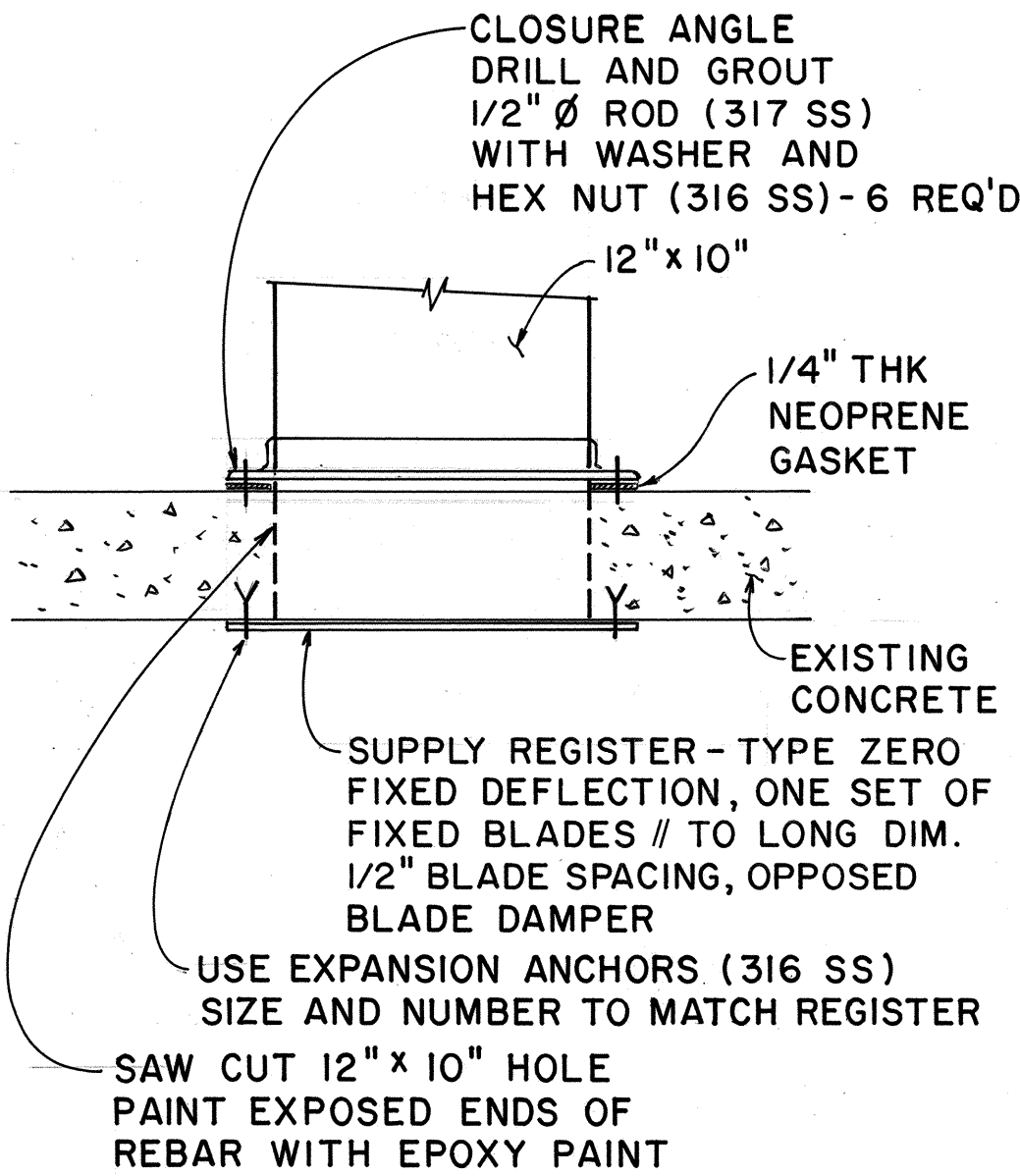


ADD. 288

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	289	353

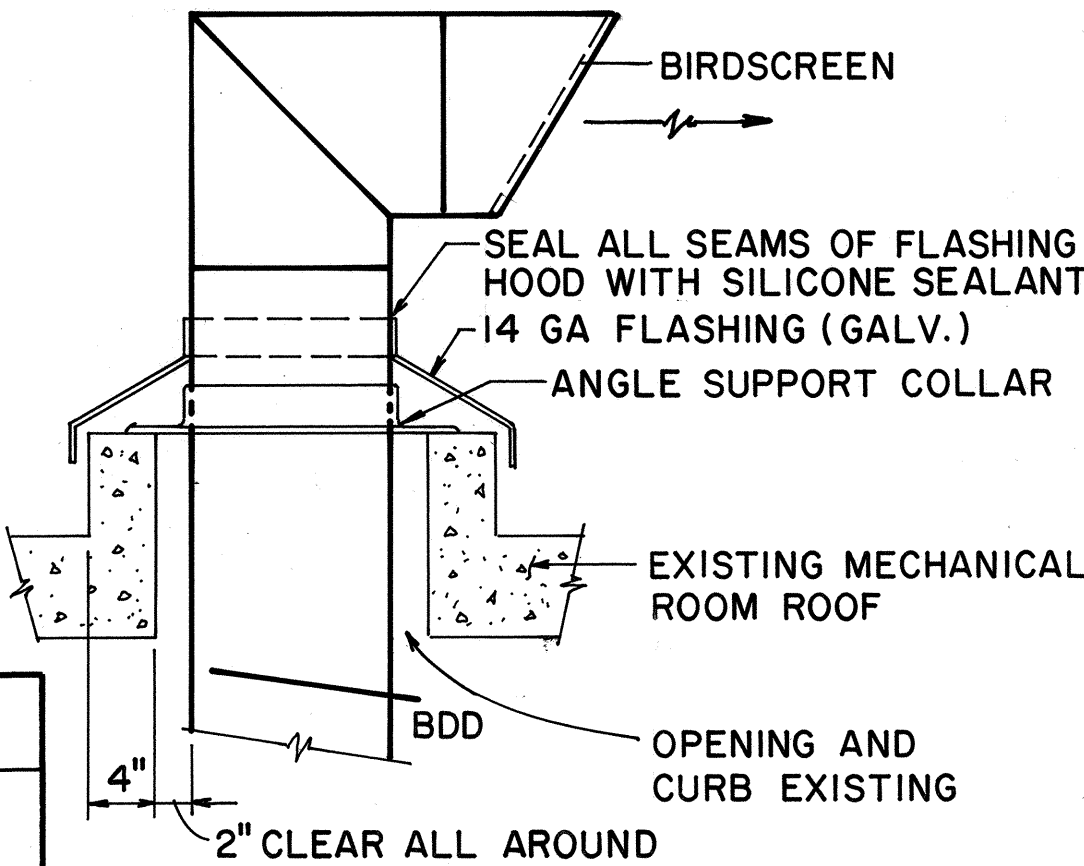


MECHANICAL ROOM PARTIAL PLAN
CONTROL BUILDING LEVEL 3



DETAIL 1
NO SCALE

NOTE:
1. EF-5 IS EXISTING REMOVE EXISTING PULLEYS AND MOTOR AND REPLACE WITH PARTS TO ACQUIRE DESIRED OPERATIONAL CHARACTERISTICS AS SHOWN IN SCHEDULE.

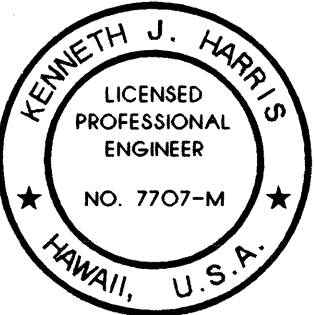


SECTION A
NO SCALE

FOR DETAIL AS-BUILT INFORMATION
REFER TO CONSTRUCTION SUBMITTALS

FAN SCHEDULE																	
EQUIPMENT NUMBER	SERVICE	ARRANGEMENT	CLASS	DRIVE	WHEEL			PERFORMANCE		MOTOR					ISOLATOR BASE		REMARKS
					DIAMETER (INCHES)	TYPE	RPM	AIR CAPACITY	STATIC H ₂ O PRESS IN.	NAME PLATE HP	RPM	VOLTS	PHASE	HERTZ	TYPE	STATIC DEFLEC IN.	
								ACFM									
EF-5	CONTROL BUILDING ELEVATOR MACHINE ROOM	-	-	BELT	-	-	2384	-	-	-	1800	115	1	60	-	-	EXIST. FAN, CHANGE PULLEYS & MOTOR
EF-8	CONTROL BUILDING ELECTRICAL ROOM - LEVEL 2	-	-	BELT	-	-	-	130	375	1/8	1800	115	1	60	-	-	

10/13/95	ADDENDUM 1
DATE	REVISION



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**CONTROL BLDG ELECTRICAL
ROOM VENTILATION**

COMMON WORK

H-3 FINISH (UNIT III)

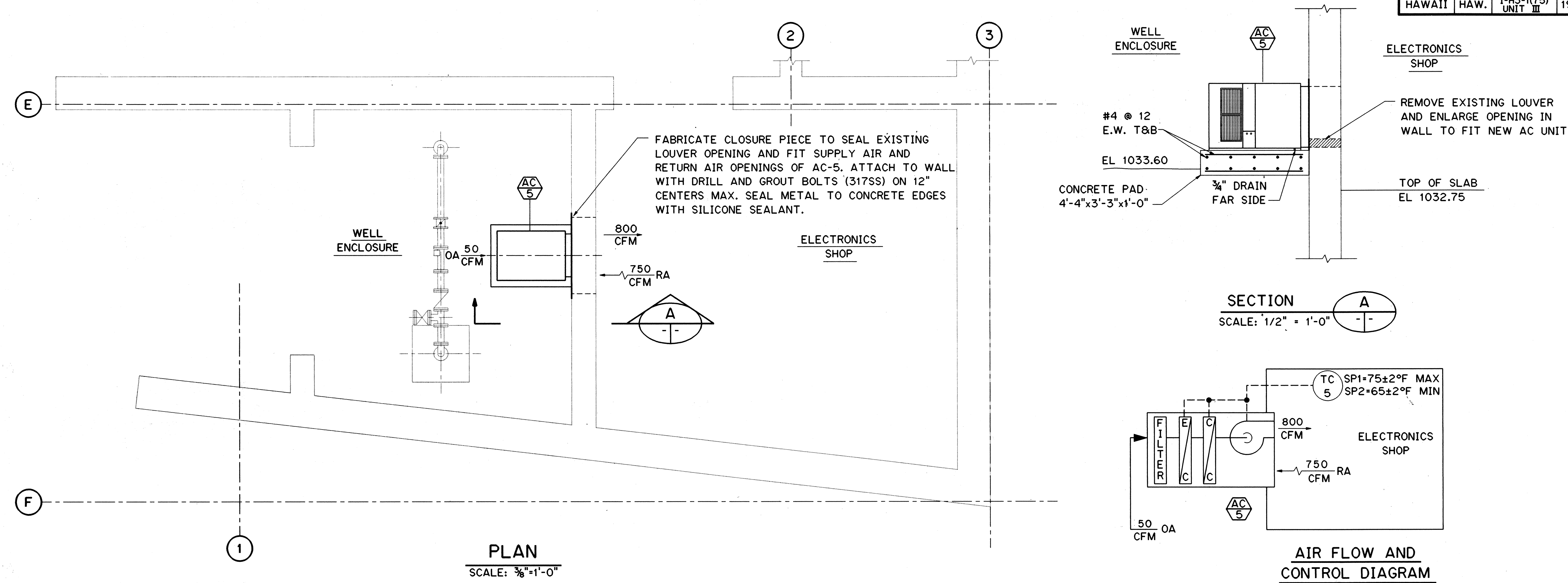
FAIP NO. I-H3-1(75), UNIT III

T.K. TUNNEL/ACCESS ROADS

SCALE: 1/2" = 1'-0" DATE: JUN 1995

SHEET NO. 7M10 OF 16 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	290	353

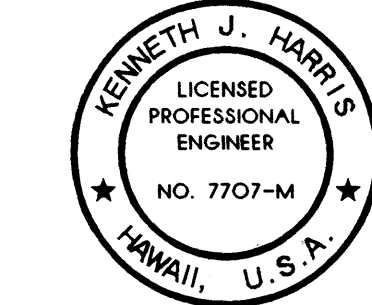
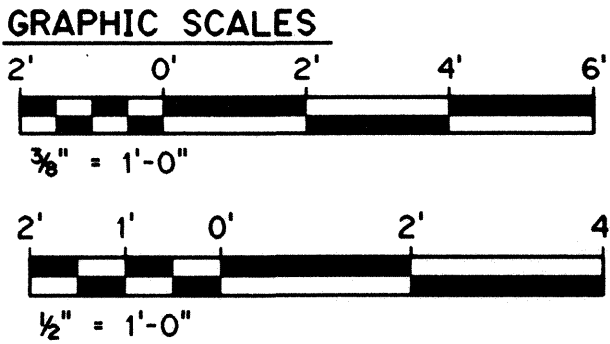


ENVIRONMENTAL AIR CONDITIONING UNIT (AC) SCHEDULE																					
ATM		ATMOSPHERIC		EAT		ENTERING AIR TEMPERATURE		FWB		°F WET BULB		SP		STATIC PRESSURE							
BTUH		BTU/HR		EXT		EXTERNAL		LAT		LEAVING AIR TEMPTURE		VEL		VELOCITY							
CFM		CUBIC FEET PER MINUTE		FDB		°F DRY BULB		QTY		QUANTITY											
DX		DIRECT EXPANSION		FPM		FEET PER MINUTE		REQD		REQUIRED											
NO.	AREA SERVED	TOTAL COOLING CAPACITY BTUH	FAN		COIL				HEATER		HUMIDIFIER		FILTER				RATED VOLTS/PH/HZ	POWER INPUT (KW)	WEIGHT LBS	REMARKS	
			AIR FLOW CFM	EXT. SP IN. WG	TYPE	EAT		LAT		QTY REQD	KW	KW	LBS VAPOR PER HR	TYPE	MAX FACE VEL FPM	NO. AND SIZE					ATM DUST SPOT EFF
						FDB	FWB	FOB	FWB												
AC 5	ELECTRONICS SHOP	30,000	800	0.5	DX	75	62	57	56	-	-	-	-	DISPOSABLE	300	-	50%	460/3/60	300	300	87° OUTDOOR DB

FOR DETAIL AS-BUILT INFORMATION
REFER TO CONSTRUCTION SUBMITTALS

10/13/95	ADDENDUM 1
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION CONTROL BUILDING ELECTRONICS SHOP HVAC COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL/ACCESS ROADS SCALE: AS NOTED DATE: JUN 1995 SHEET NO. 7M11 OF 16 SHEETS	

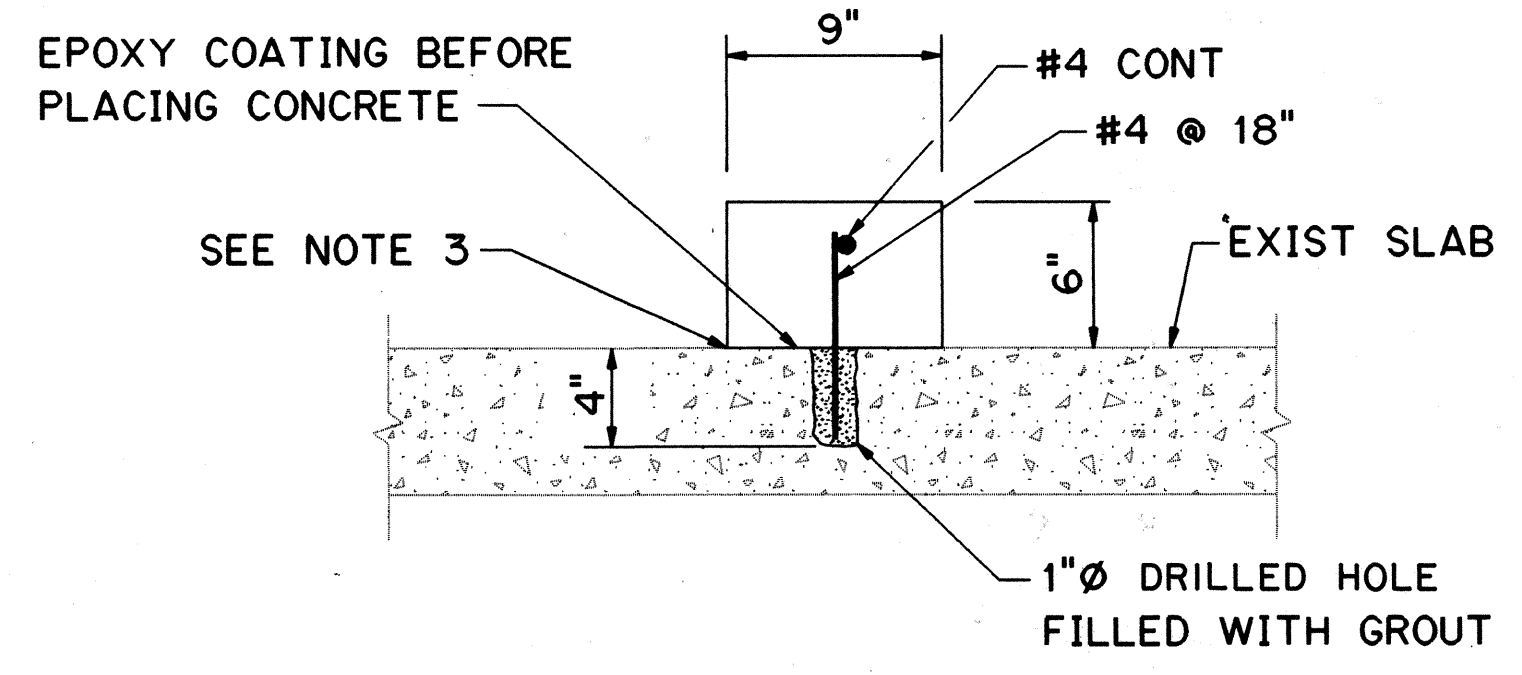
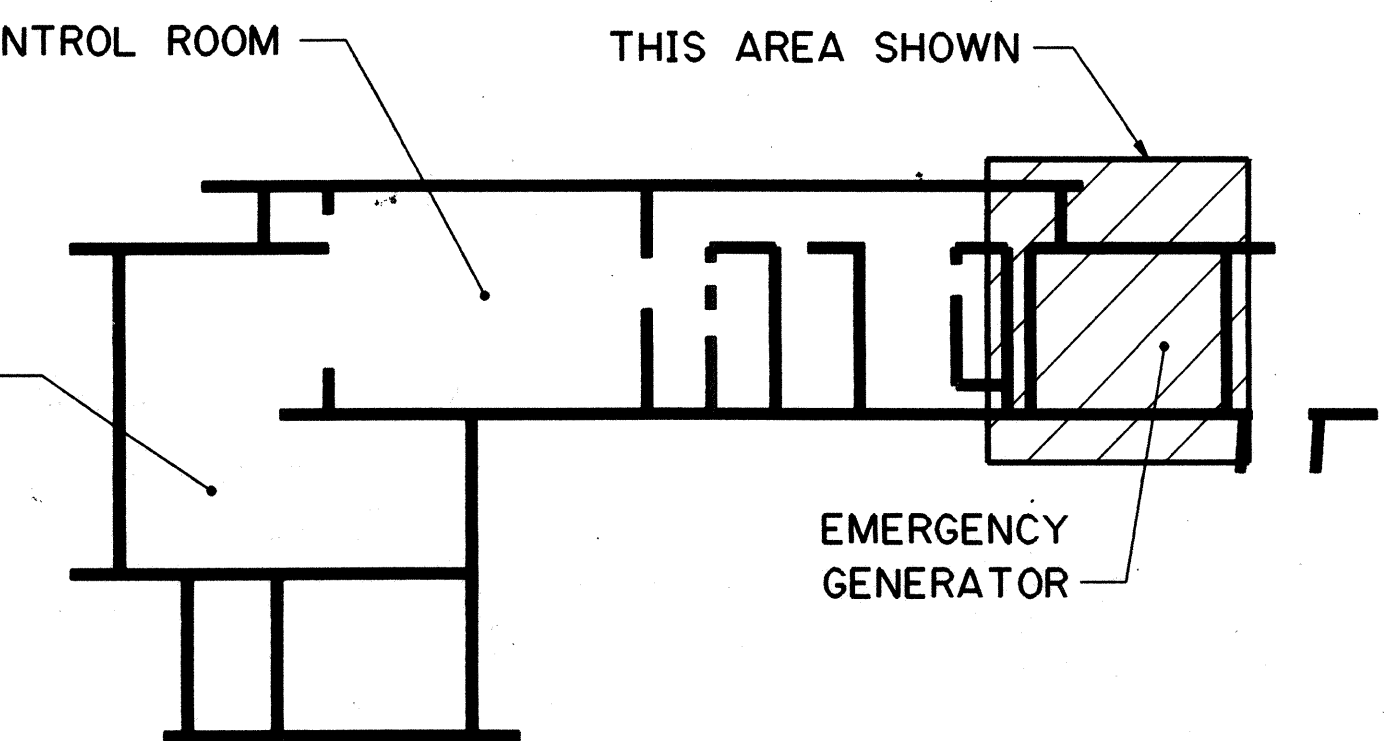
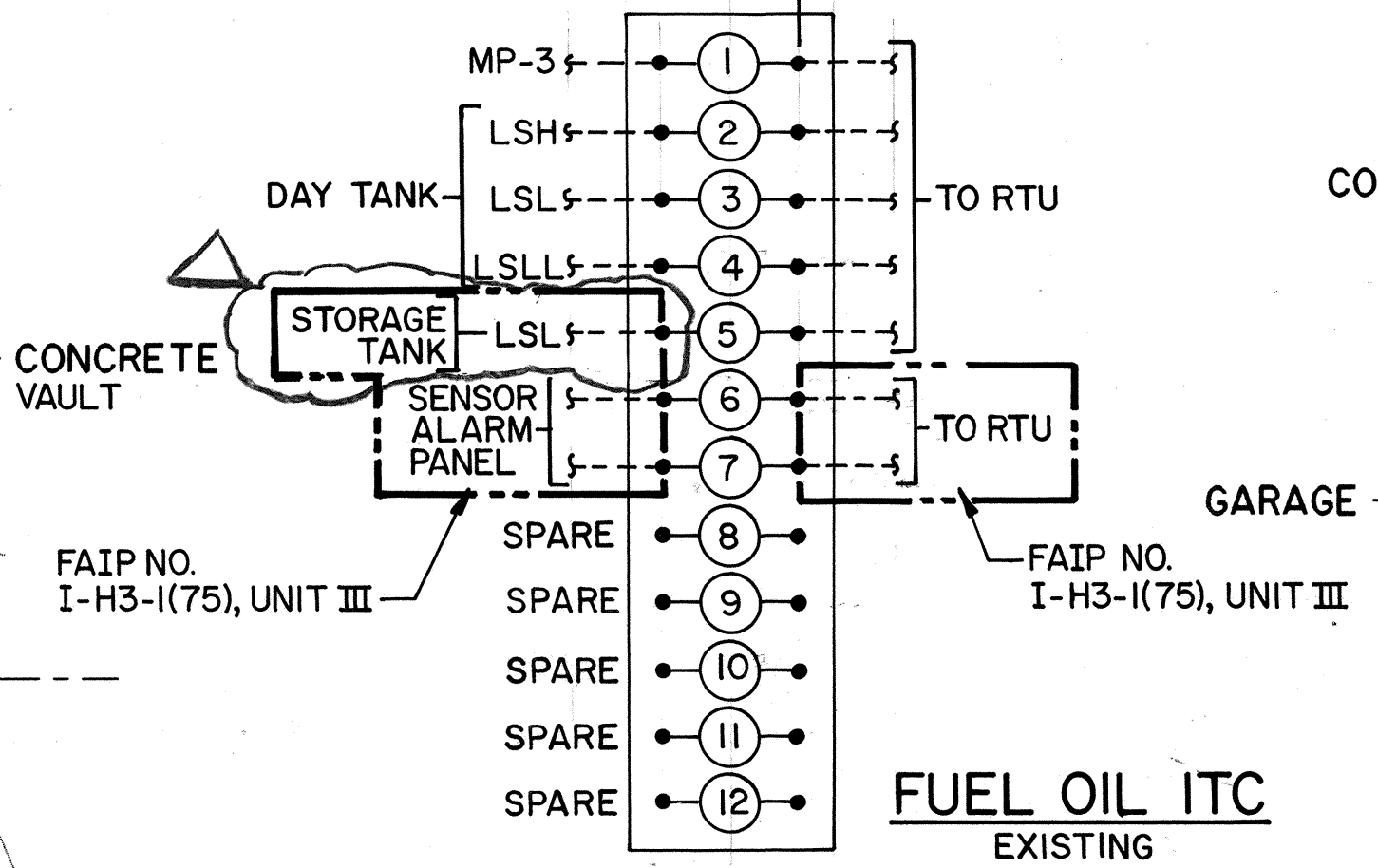
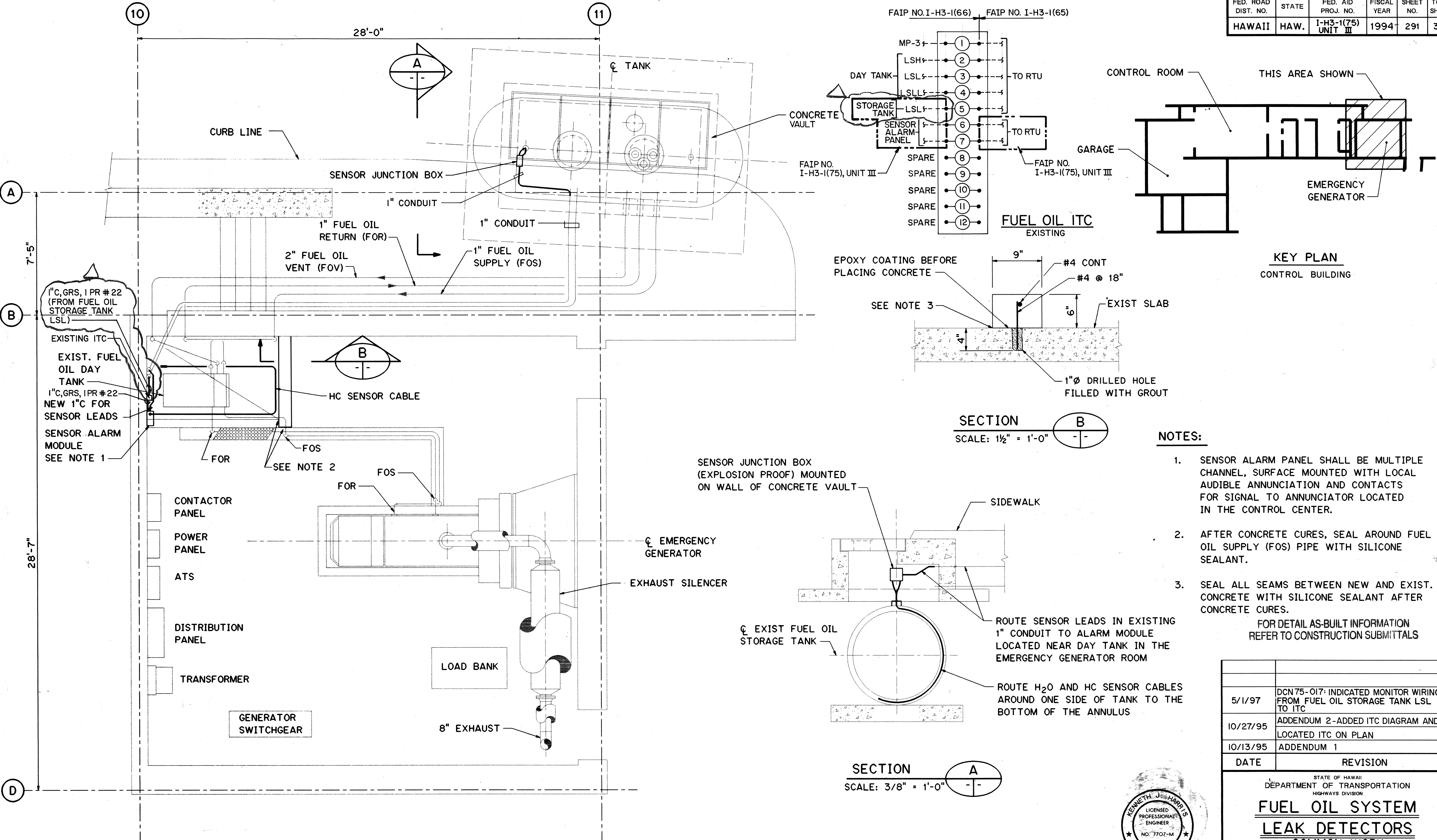
SURVEY PLOTTED BY	DATE
DRAWN BY	MAR 95
DESIGNED BY	MAR 95
QUANTITIES BY	MAR 95
CHECKED BY	
ORIGINAL	
NOTE BOOK	
NO.	



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Kenneth J. Harris

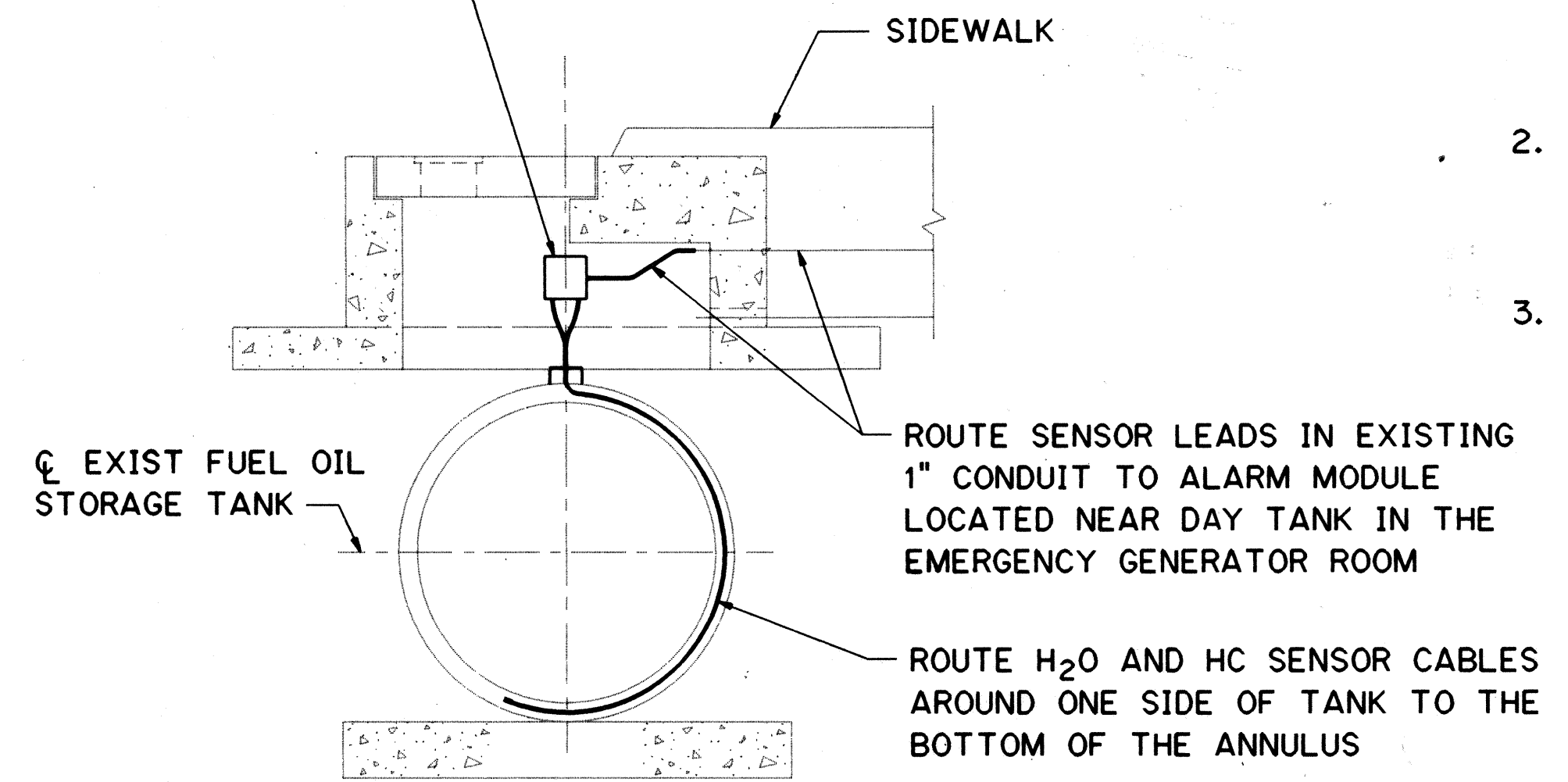
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	291	353



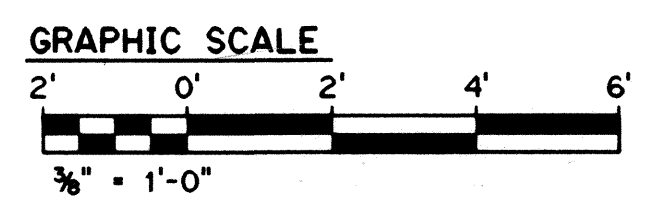
SECTION B
SCALE: 1/2" = 1'-0"

NOTES:

1. SENSOR ALARM PANEL SHALL BE MULTIPLE CHANNEL, SURFACE MOUNTED WITH LOCAL AUDIBLE ANNUNCIATION AND CONTACTS FOR SIGNAL TO ANNUNCIATOR LOCATED IN THE CONTROL CENTER.
 2. AFTER CONCRETE CURES, SEAL AROUND FUEL OIL SUPPLY (FOS) PIPE WITH SILICONE SEALANT.
 3. SEAL ALL SEAMS BETWEEN NEW AND EXIST. CONCRETE WITH SILICONE SEALANT AFTER CONCRETE CURES.
- FOR DETAIL AS-BUILT INFORMATION REFER TO CONSTRUCTION SUBMITTALS



SECTION A
SCALE: 3/8" = 1'-0"



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

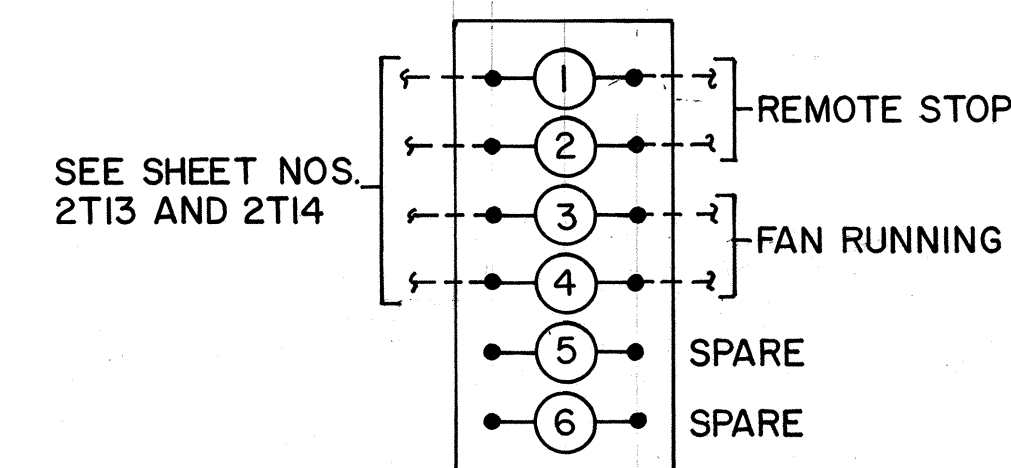
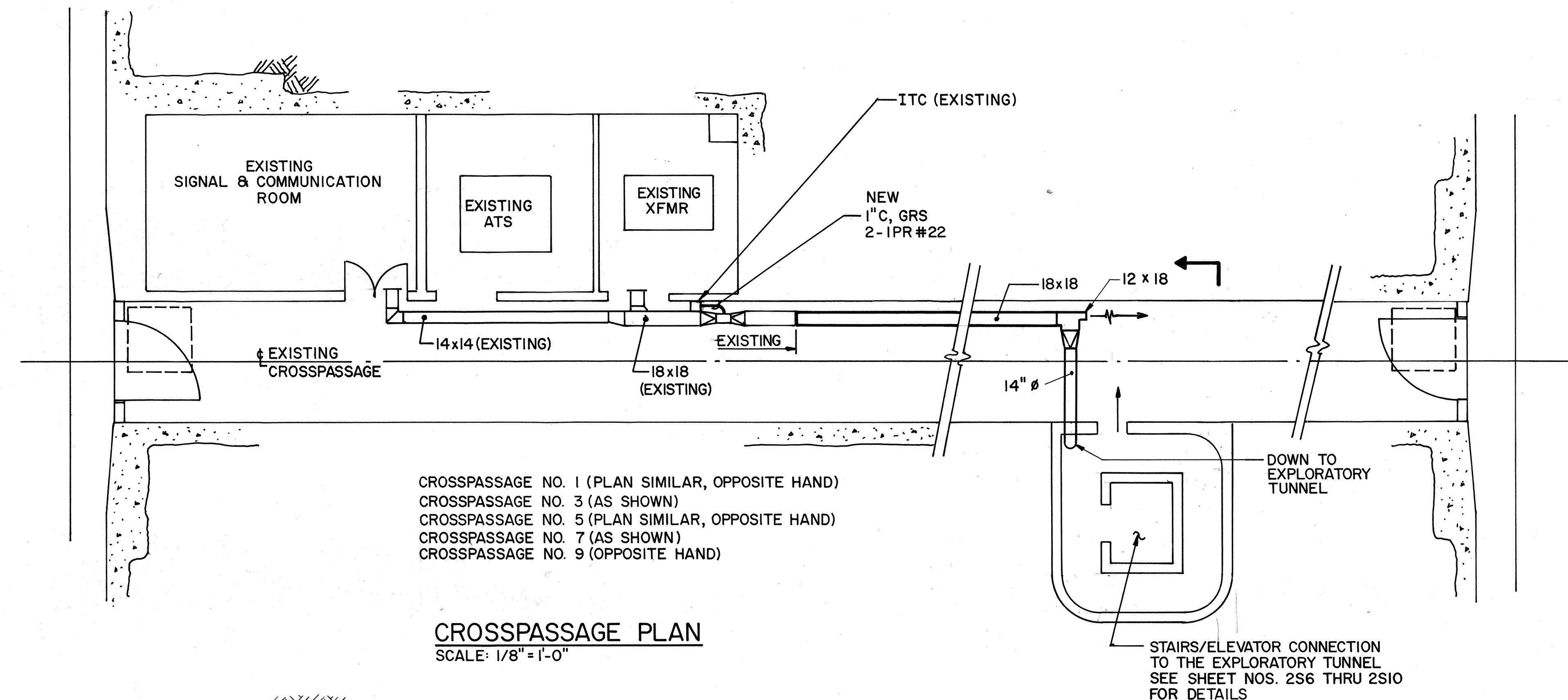
Kenneth J. Harris

DATE	REVISION
5/1/97	DCN 75-017: INDICATED MONITOR WIRING FROM FUEL OIL STORAGE TANK LSL TO ITC
10/27/95	ADDENDUM 2-ADDED ITC DIAGRAM AND LOCATED ITC ON PLAN
10/13/95	ADDENDUM 1

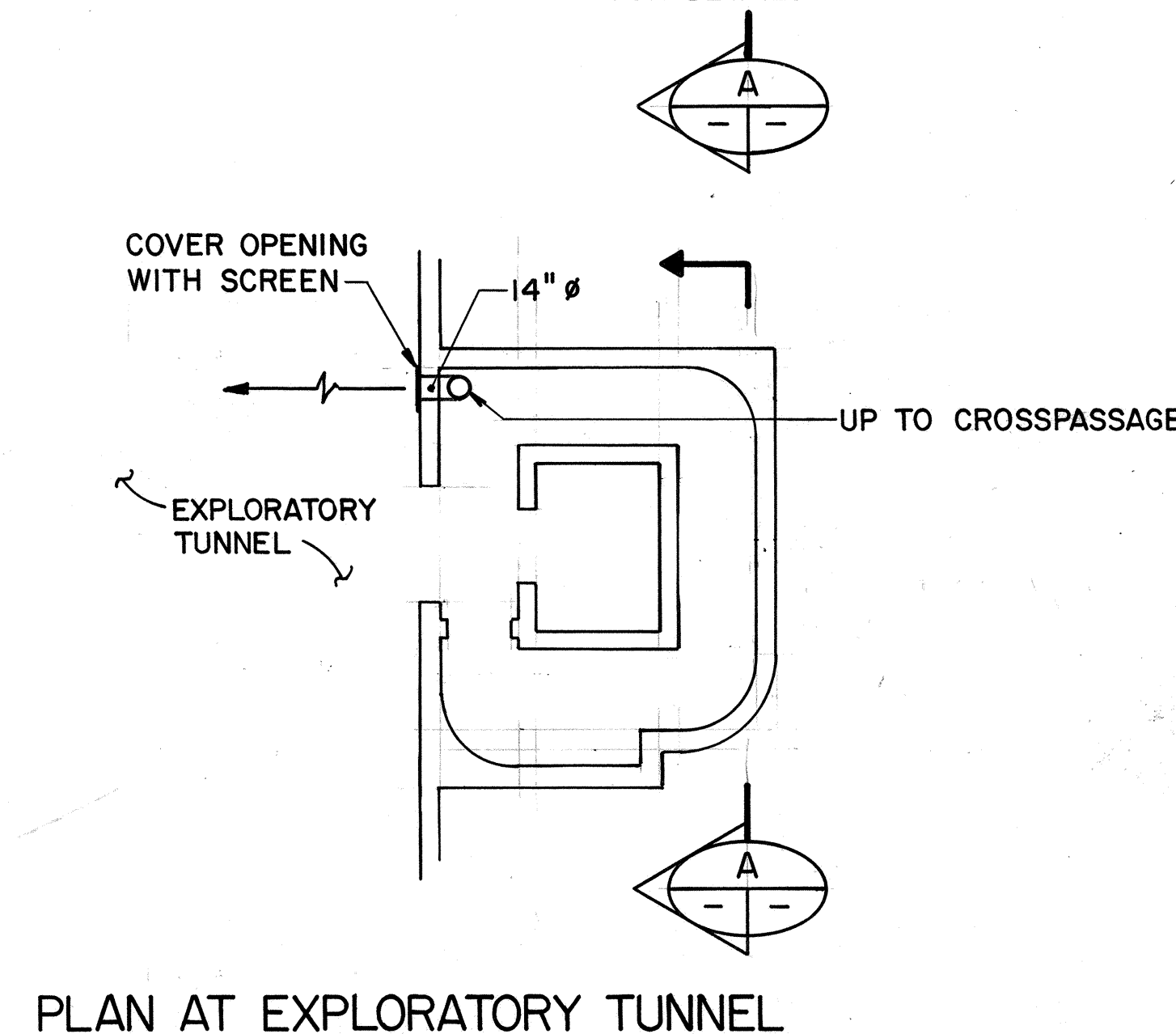
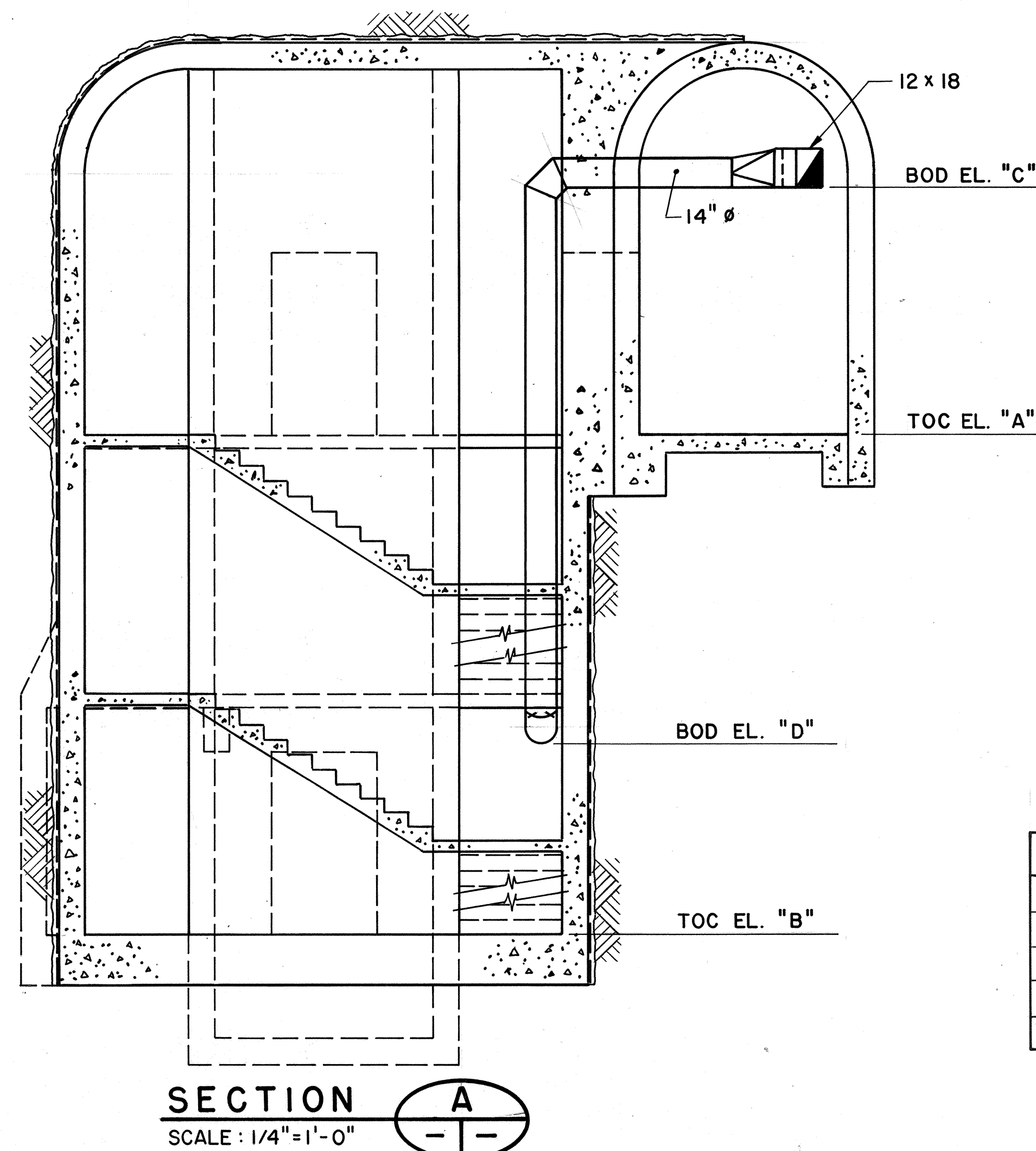
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
FUEL OIL SYSTEM LEAK DETECTORS COMMON WORK	
H-3 FINISH (UNIT III)	
FAIP NO. I-H3-1(75), UNIT III	
T.K. TUNNEL/ACCESS ROADS	
SCALE: 3/8" = 1'-0"	DATE: JUN 1995
SHEET NO. 7M12	OF 16 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	MAR 95
TRACED BY	
CHECKED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

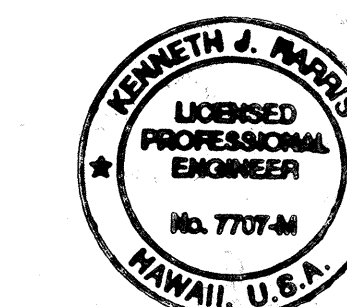
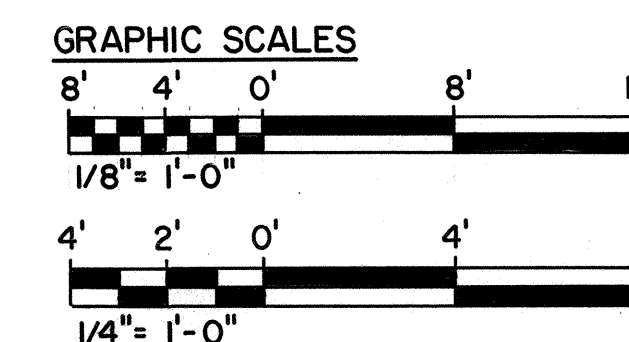
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	292	353



ITC NUMBER	CROSSPASSAGE NUMBER	EXHAUST FAN NUMBER
ITC-XP1	1	EF-23
ITC-XP3	3	EF-24
ITC-XP5	5	EF-25
ITC-XP7	7	EF-26
ITC-XP9	9	EF-27



CROSSPASSAGE	EL. "A"	EL. "B"	EL. "C"	EL. "D"
NO. 1	1043.39	1013.68	1052.89	1021.01
NO. 3	1037.26	1018.57	1046.76	1025.90
NO. 5	1001.47	970.66	1010.97	977.99
NO. 7	942.00	911.58	951.50	918.91
NO. 9	883.17	852.22	892.67	859.55



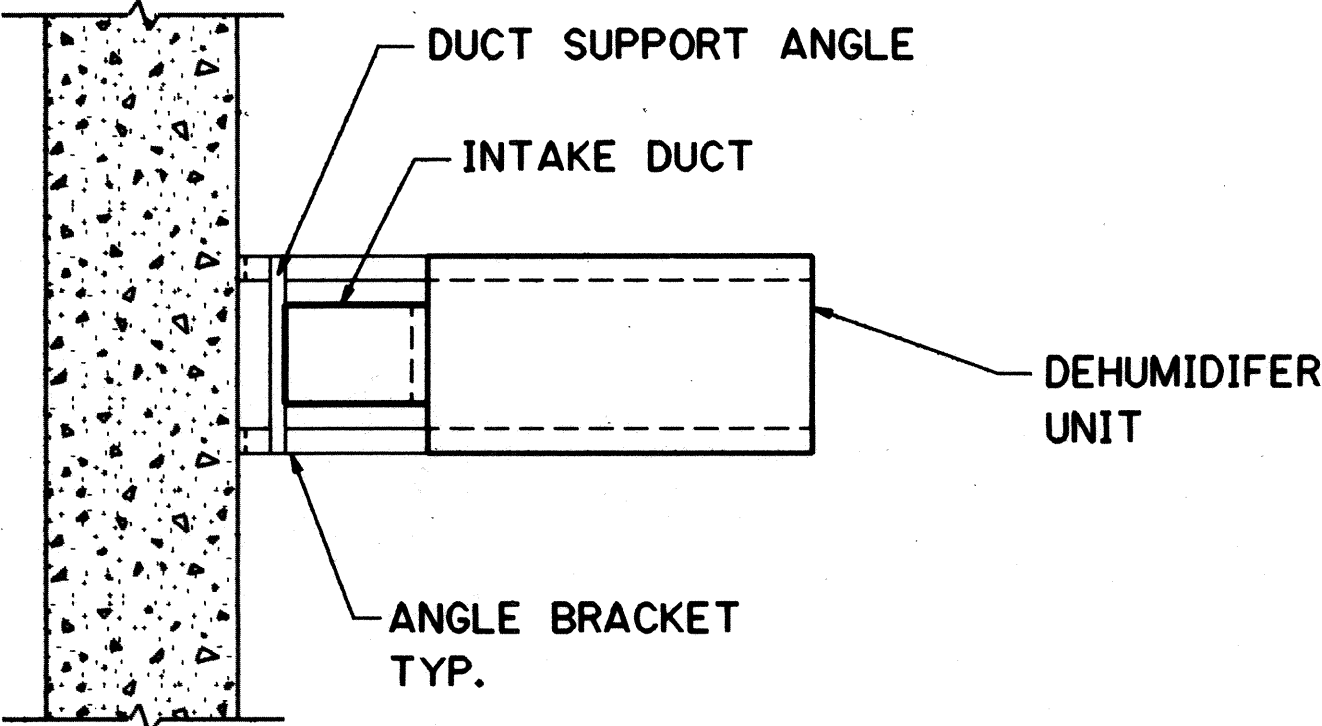
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Kenneth J. Harris

FOR DETAIL AS-BUILT INFORMATION REFER TO CONSTRUCTION SUBMITTALS

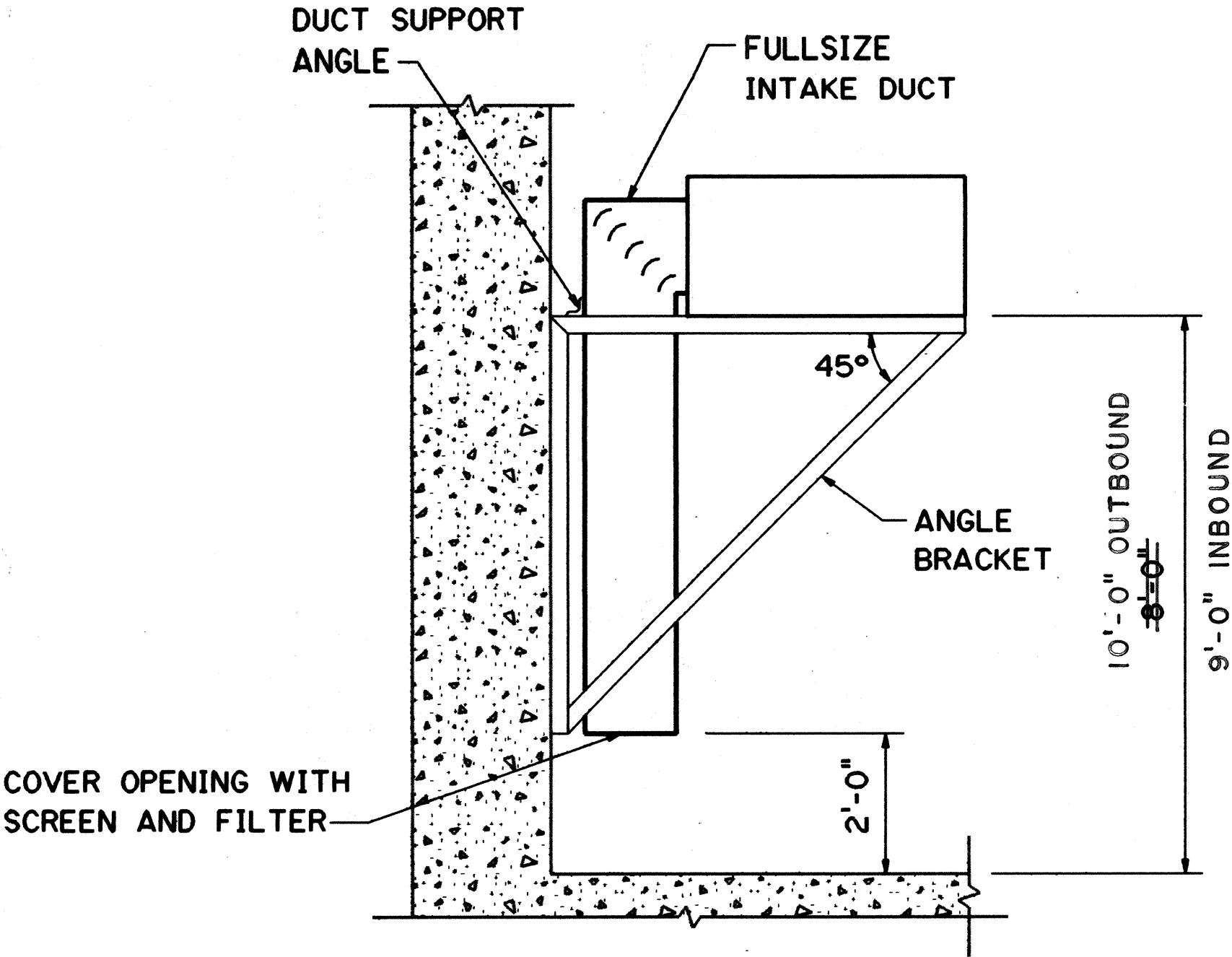
10/27/95	ADDENDUM 2 - ADDED ITC
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
CROSSPASSAGE VENTILATION	
COMMON WORK	
H-3 FINISH (UNIT III)	
FAIP NO. I-H3-1(75), UNIT III	
T.K. TUNNEL/ACCESS ROADS	
SCALE: AS NOTED	DATE: JUN 1995
SHEET NO. 7M13 OF 16 SHEETS	

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	JUN 95
	TRACED BY	MAY 95
	CHECKED BY	JUN 95

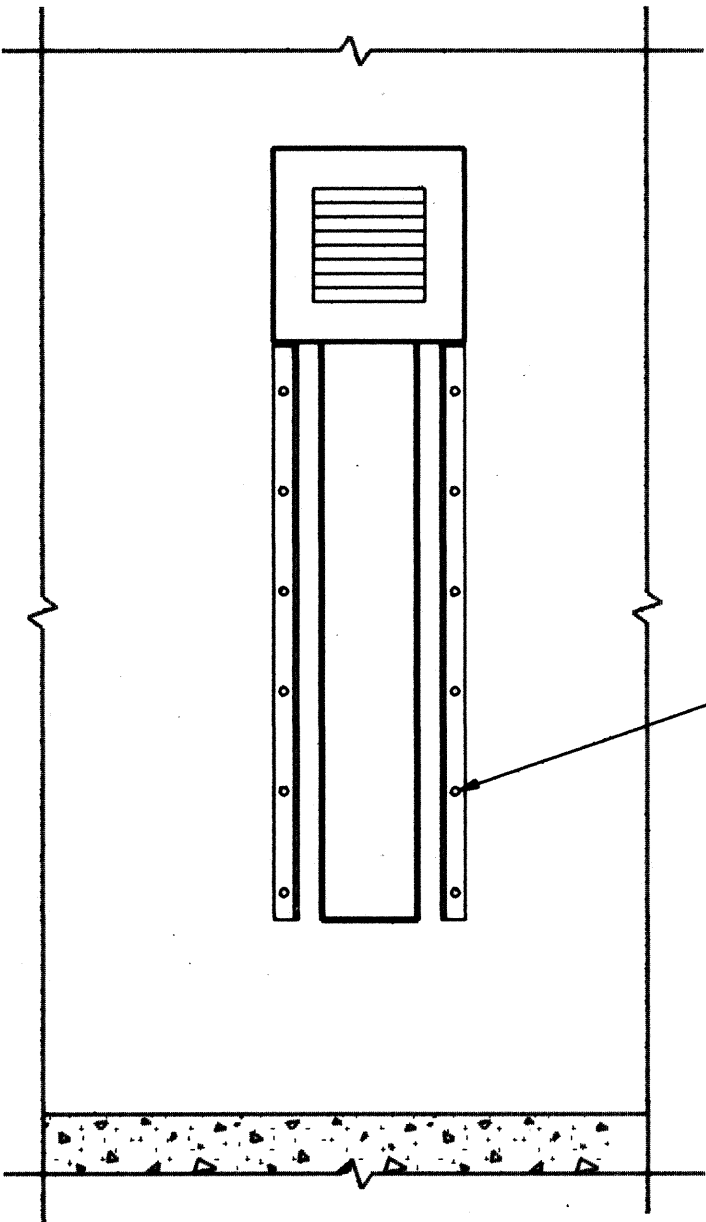


PLAN

DEHUMIDIFIER SCHDULE				
TAG NO.	CAPACITY PINTS PER DAY	INLET AIR		REMARKS
		TEMP. DEGREES F	RELATIVE HUMIDITY %	
DH 1	134	77	63	115V, 1Ø PORTABLE
DH 2	35	65	50	208/230V, 1Ø
DH 3	42	65	50	208/230V, 1Ø



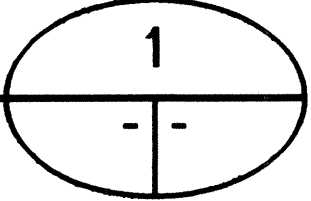
ELEVATION



END VIEW

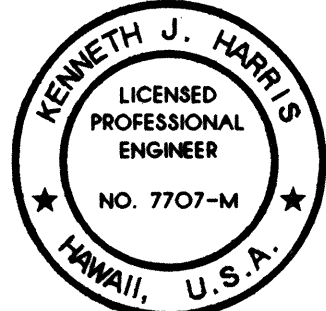
DEHUMIDIFIER MOUNTING DETAIL

NO SCALE



FOR DETAIL AS-BUILT INFORMATION REFER TO CONSTRUCTION SUBMITTALS

10/13/95	ADDENDUM I
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DEHUMIDIFIERS DETAILS AND SCHEDULES COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL/ACCESS ROADS	
SCALE: NONE	DATE: OCT 1995
SHEET NO. 7M13A OF 16 SHEETS	



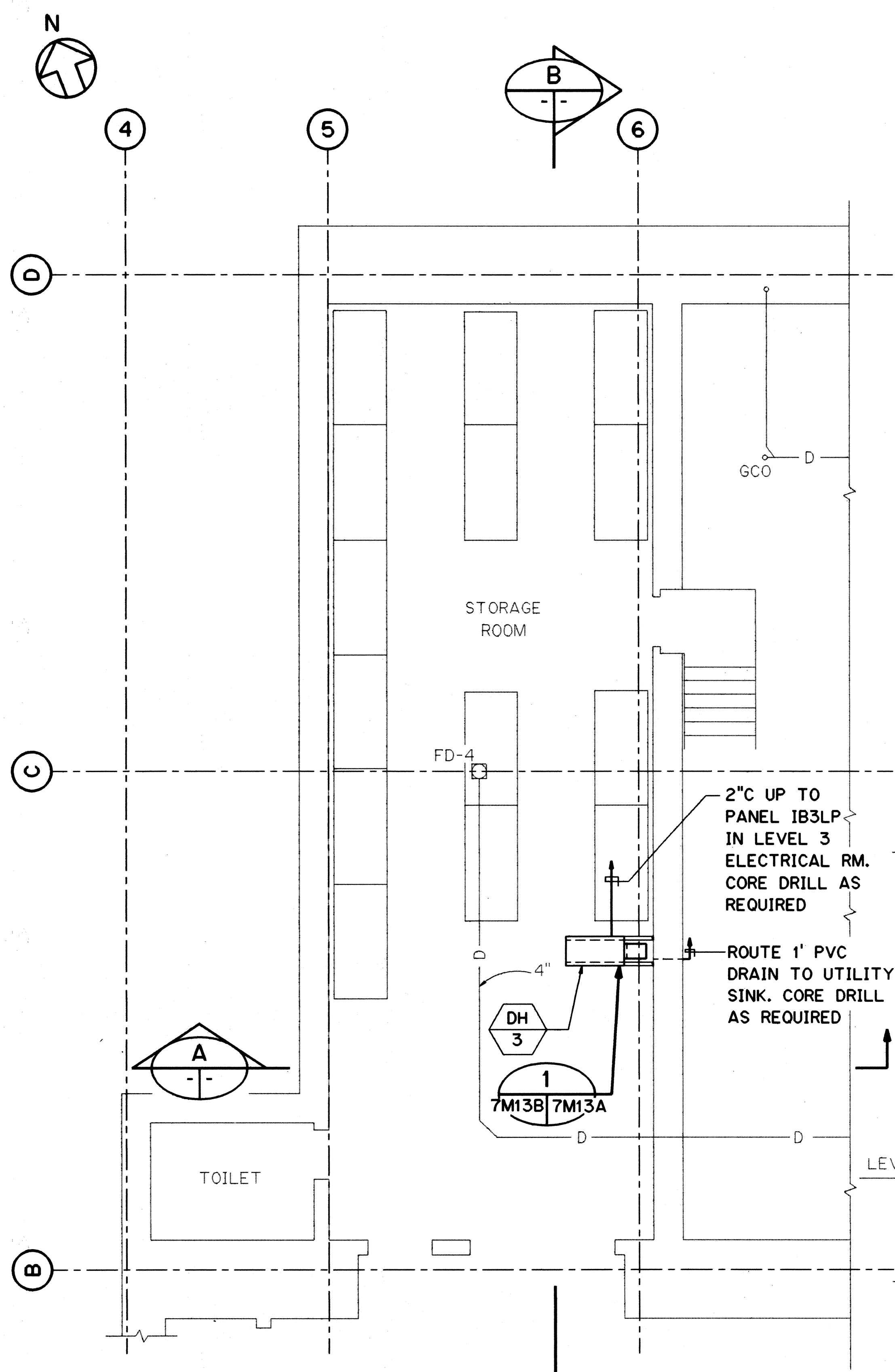
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Kenneth J. Harris

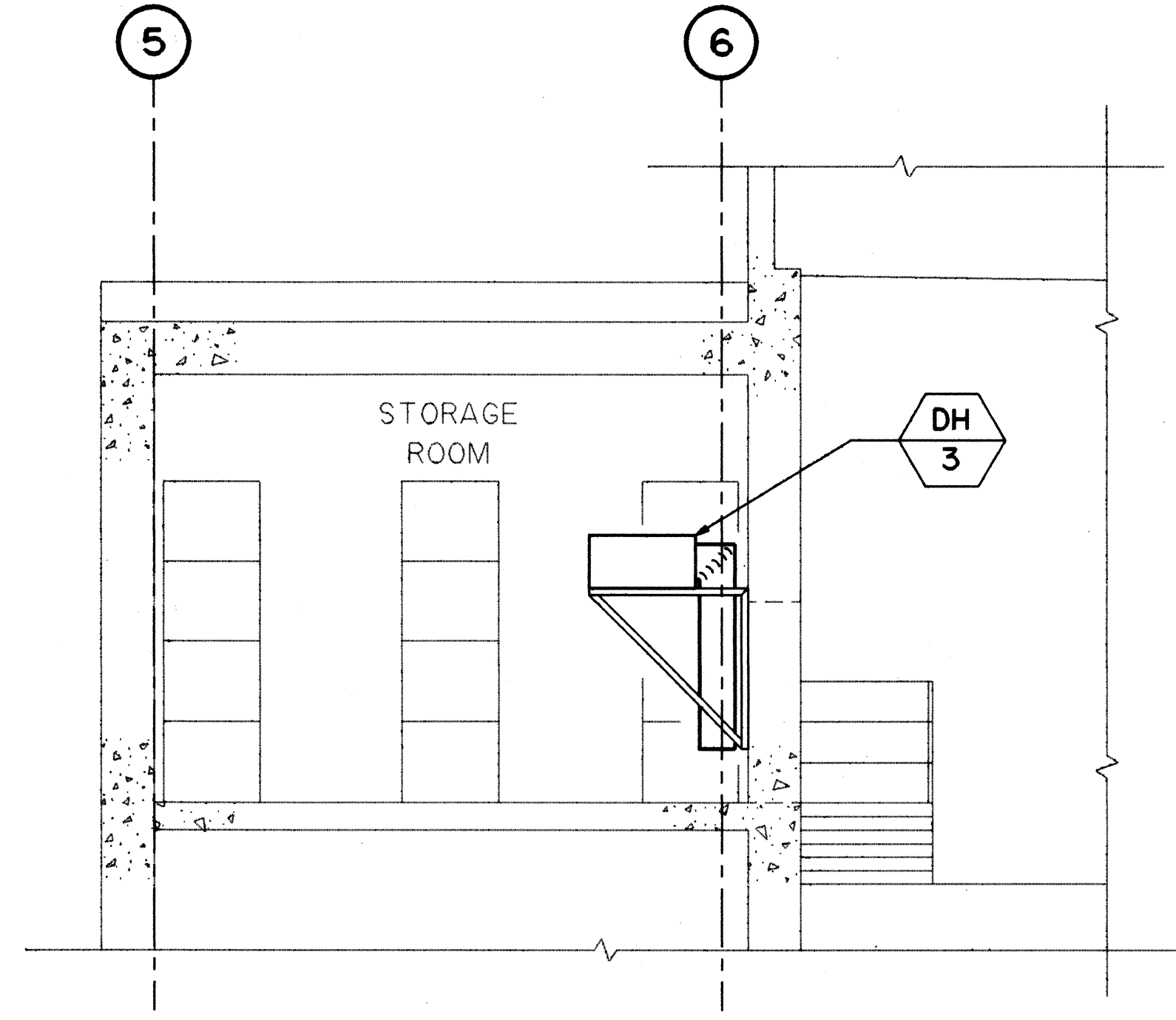
ADD.292S-1

SURVEY PLOTTED BY	DATE
DRAWN BY	OCT 95
CHECKED BY	OCT 95
DESIGNED BY	OCT 95
QUANTITIES BY	OCT 95
CHECKED BY	OCT 95
ORIGINAL PLAN	
NOTE BOOK	
NO.	

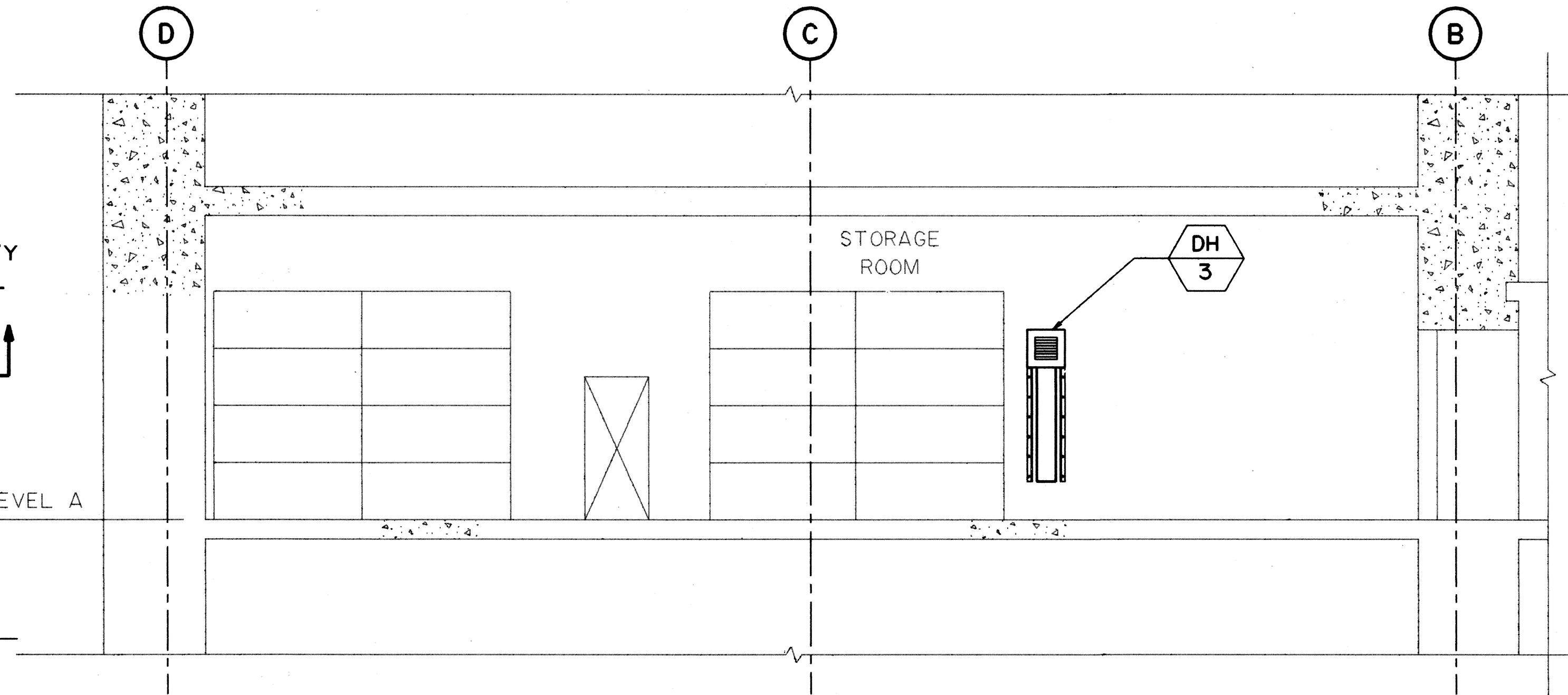
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(75) UNIT III	1994	292 S-2	353



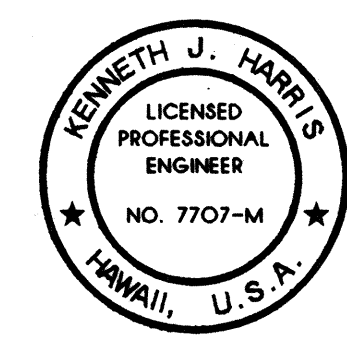
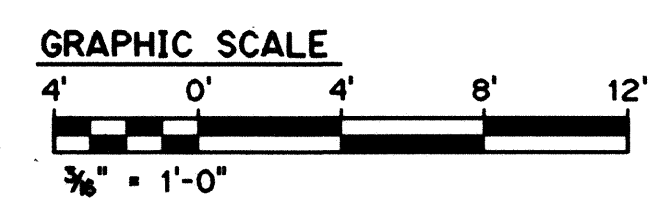
LEVEL A PLAN
SCALE: 3/16" = 1'-0"



SECTION A
SCALE: 3/16" = 1'-0"



SECTION B
SCALE: 3/16" = 1'-0"

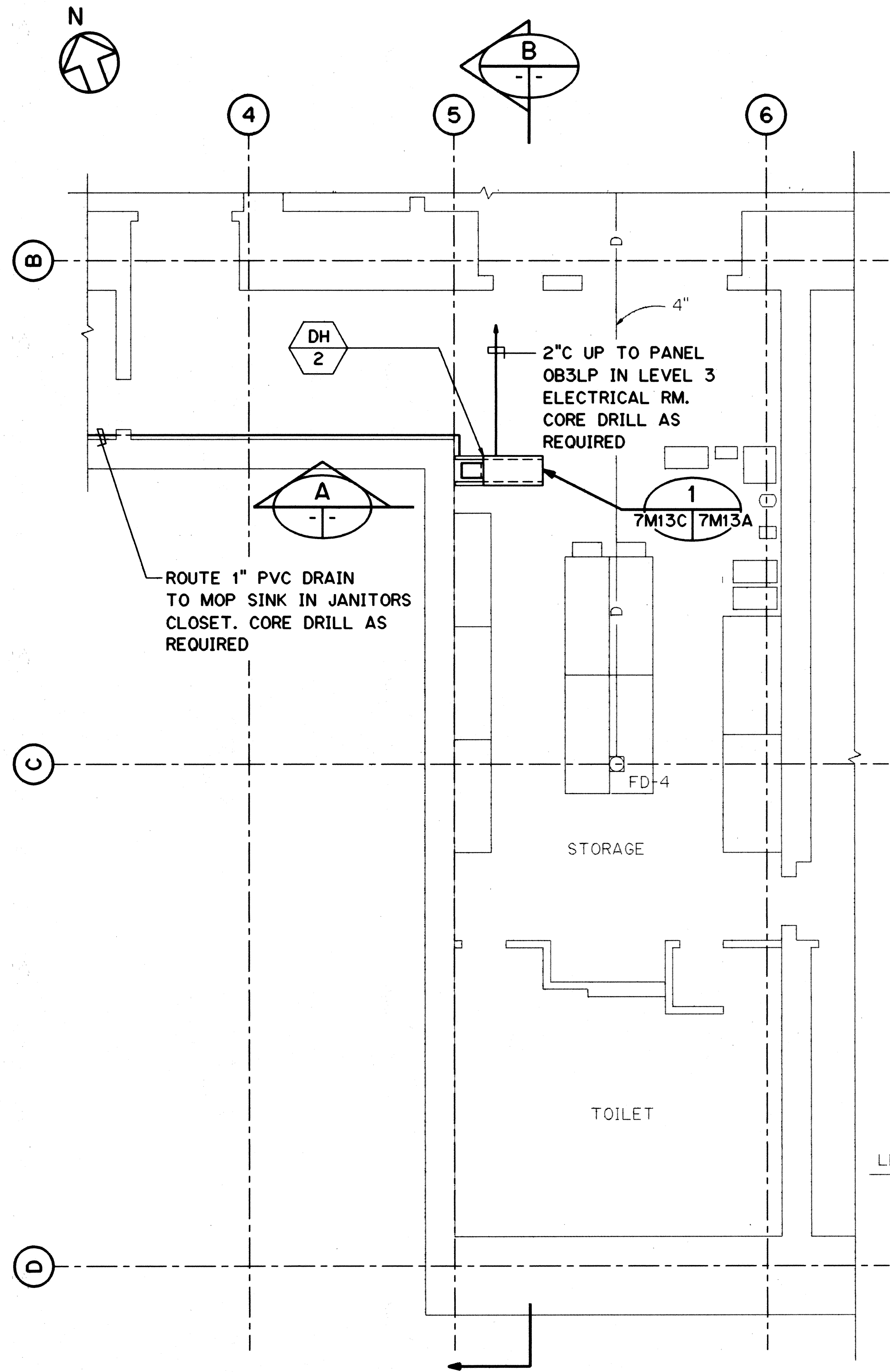


THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Kenneth J. Harris

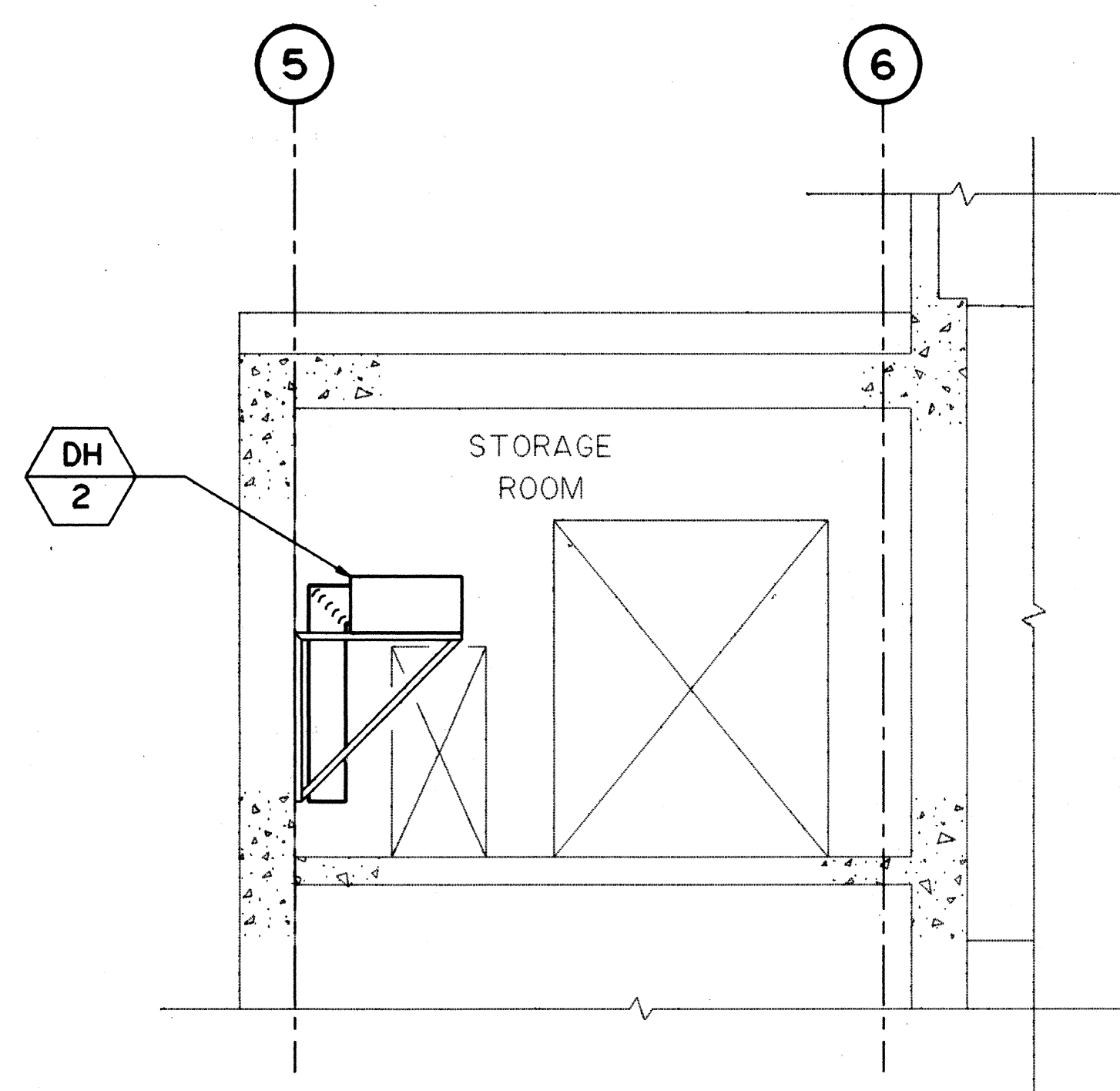
10/13/95	ADDENDUM I
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION DEHUMIDIFIERS HAIKU PORTAL BUILDING - IB COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL/ACCESS ROADS SCALE: AS SHOWN DATE: OCT 1995	
SHEET NO. 7M13B OF 16 SHEETS	

DATE	OCT 95
SURVEY PLOTTED BY	T.K. BURNS
DESIGNED BY	D.E. DRYDEN
CHECKED BY	K.J. HARRIS
ORIGINAL PLAN	NO.
NOTE BOOK	NO.

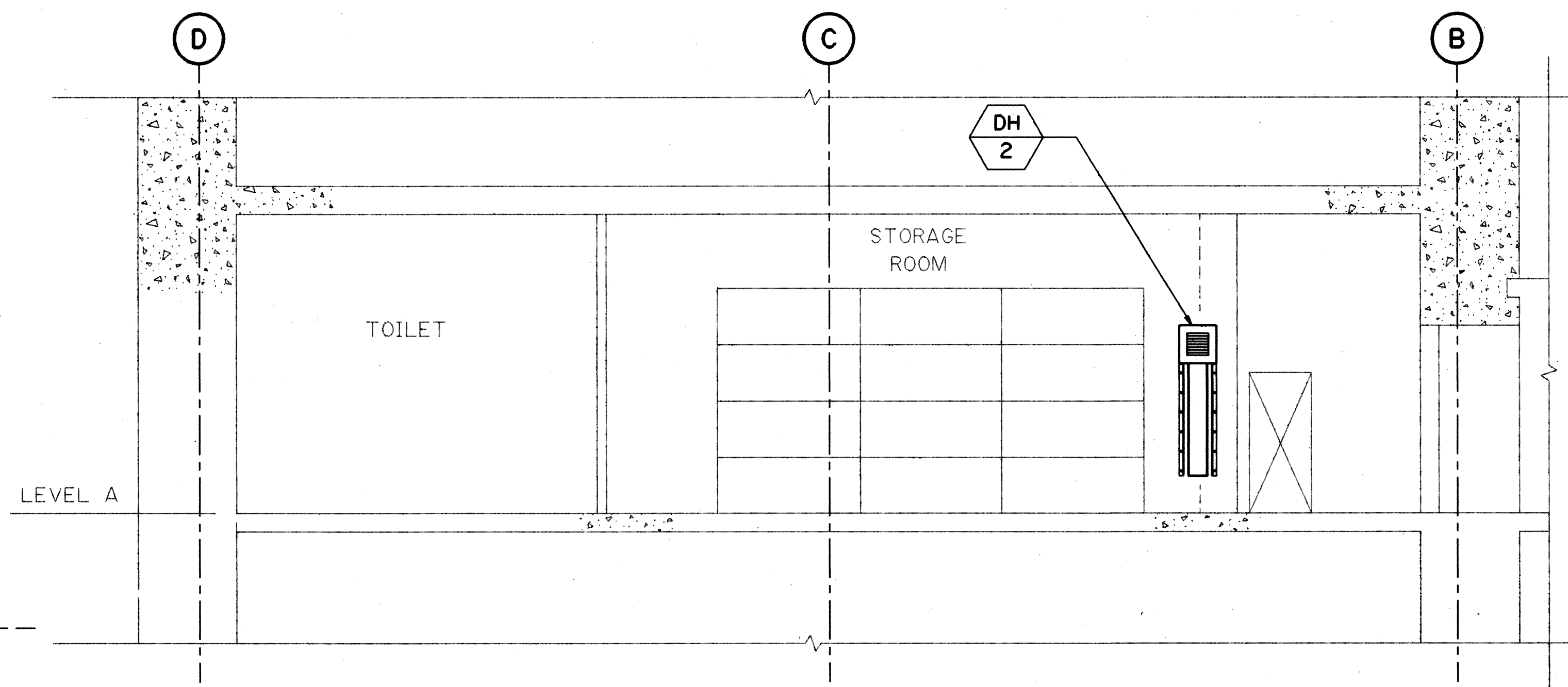
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(75) UNIT III	1994	292 S-3	353



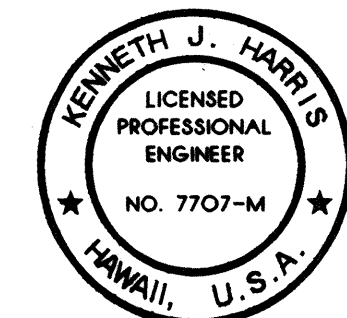
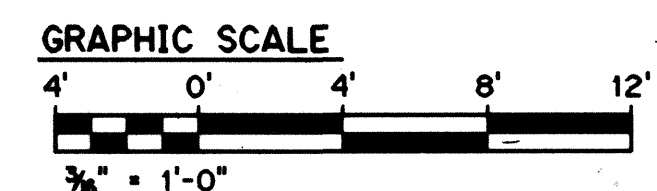
LEVEL A PLAN
SCALE: 3/16" = 1'-0"



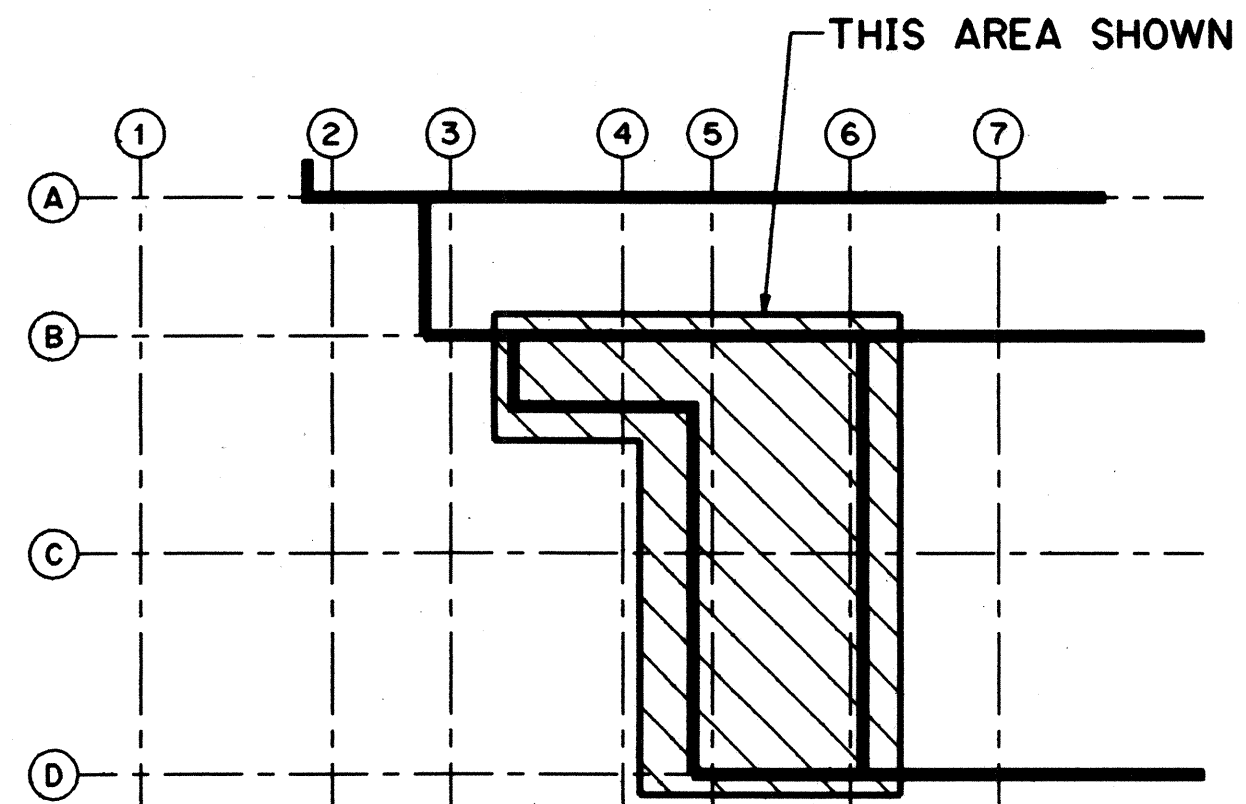
SECTION A
SCALE: 3/16" = 1'-0"



SECTION B
SCALE: 3/16" = 1'-0"



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Kenneth J. Harris

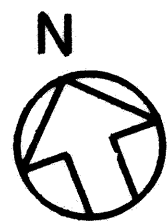


KEY PLAN
HAIKU OB PORTAL BUILDING
LEVEL A

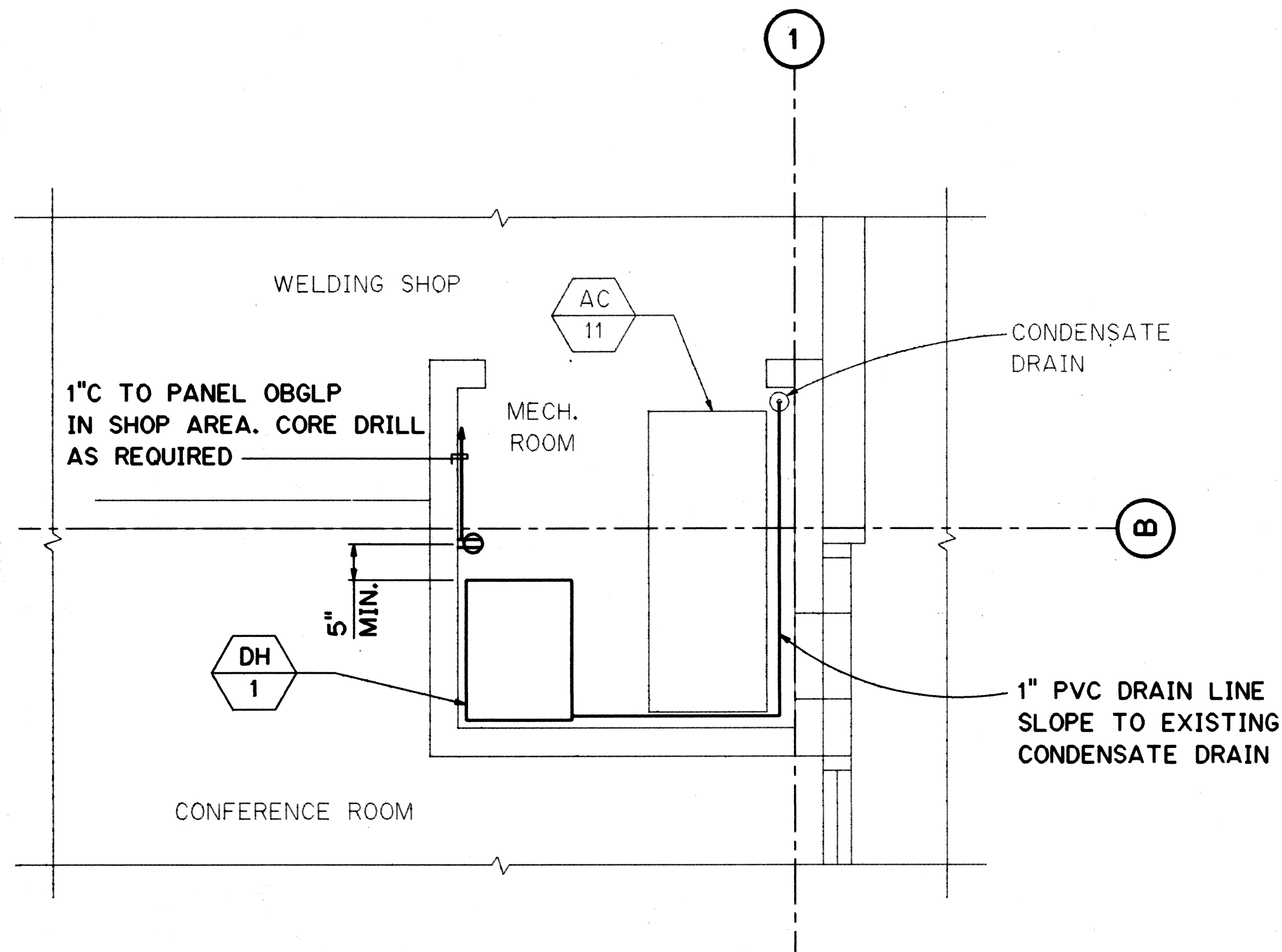
10/13/95	ADDENDUM I
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION DEHUMIDIFIERS HAIKU PORTAL BUILDING - OB COMMON WORK H-3 FINISH (UNIT III) FAIP NO. 1-H3-1(75), UNIT III T.K. TUNNEL/ACCESS ROADS SCALE: AS SHOWN DATE: OCT 1995 SHEET NO. 7M13C OF 16 SHEETS	

ADD.292S-3

ORIGINAL PLAN	DATE
NOTE BOOK	DESIGNED BY
	CHECKED BY
	NO.

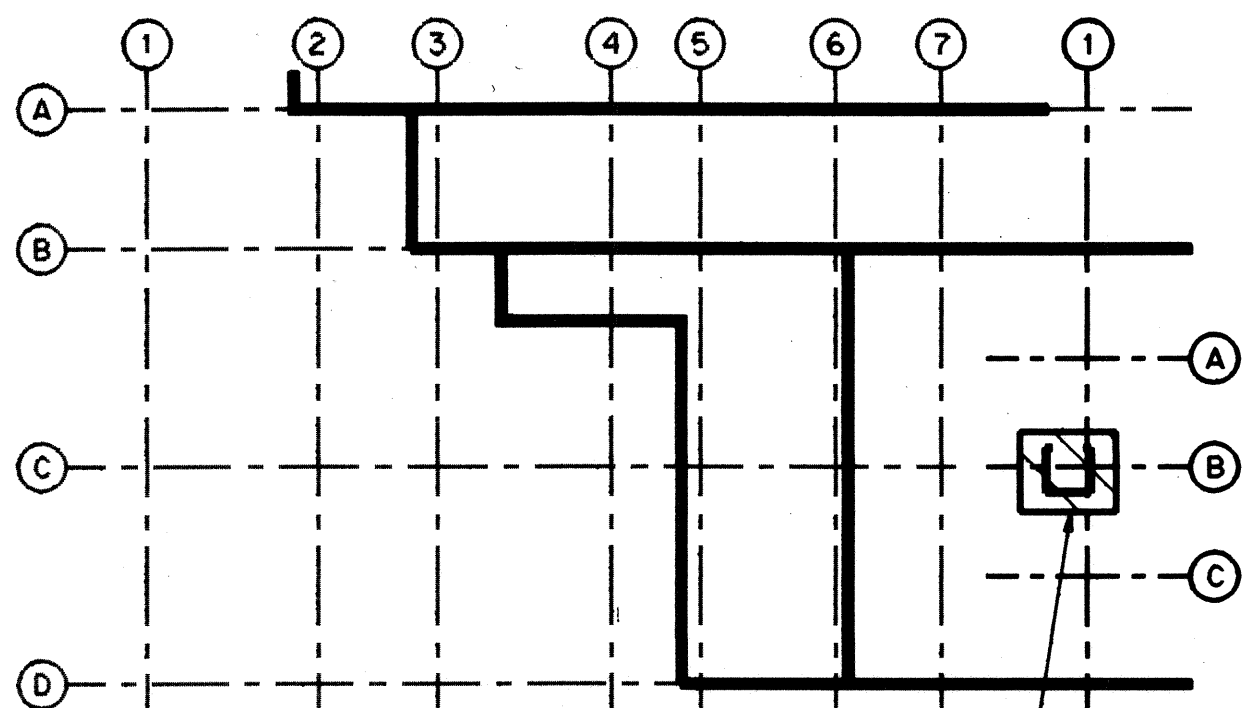


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	292 S-4	353



LEVEL A PLAN

SCALE: 1/2" = 1'-0"

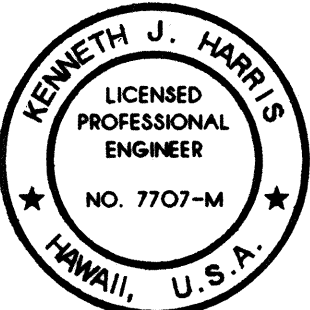


KEY PLAN
HAIKU OB PORTAL BUILDING
LEVEL A

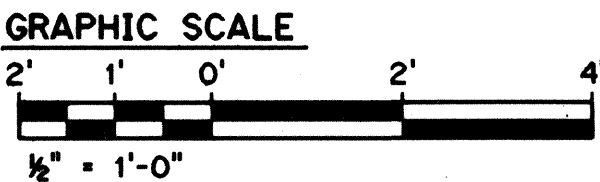
NOTES:

1. RUN EQUIPMENT DRAIN HOSE TO NEW DRAIN LINE.
2. DRILL AND GROUT TYPE 317 STAINLESS STEEL ANCHOR BOLTS WITH TYPE 316 STAINLESS STEEL NUTS AND WASHERS.

10/13/95	ADDENDUM I
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DEHUMIDIFIERS	
HAIKU PORTAL MECH. RM.-OB	
COMMON WORK	
H-3 FINISH (UNIT III)	
FAIP NO. I-H3-1(75), UNIT III	
T.K. TUNNEL/ACCESS ROADS	
SCALE: AS SHOWN	DATE: OCT 1995
SHEET NO. 7M13D	OF 16 SHEETS

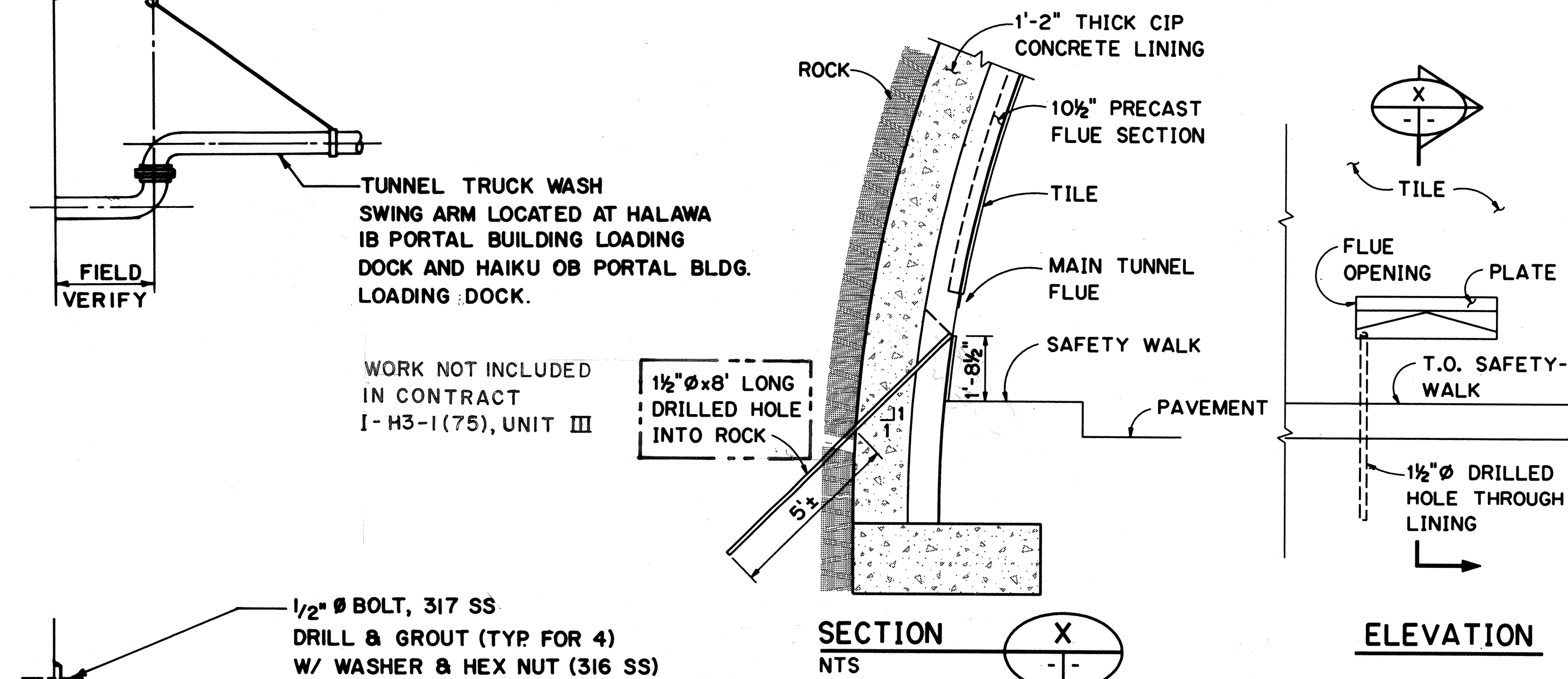
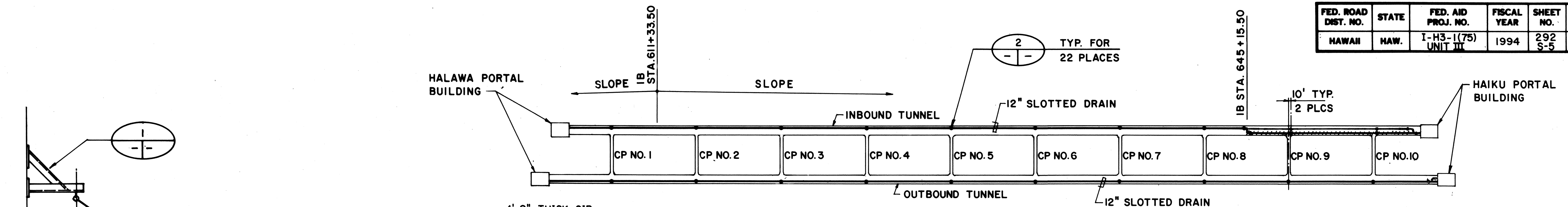


THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Kenneth J. Harris



SURVEY PLOTTED BY	DATE
DRAWN BY	OCT 95
TRACED BY	T.K. BURNS
CHECKED BY	D.E. DRYDEN
NO.	OCT 95

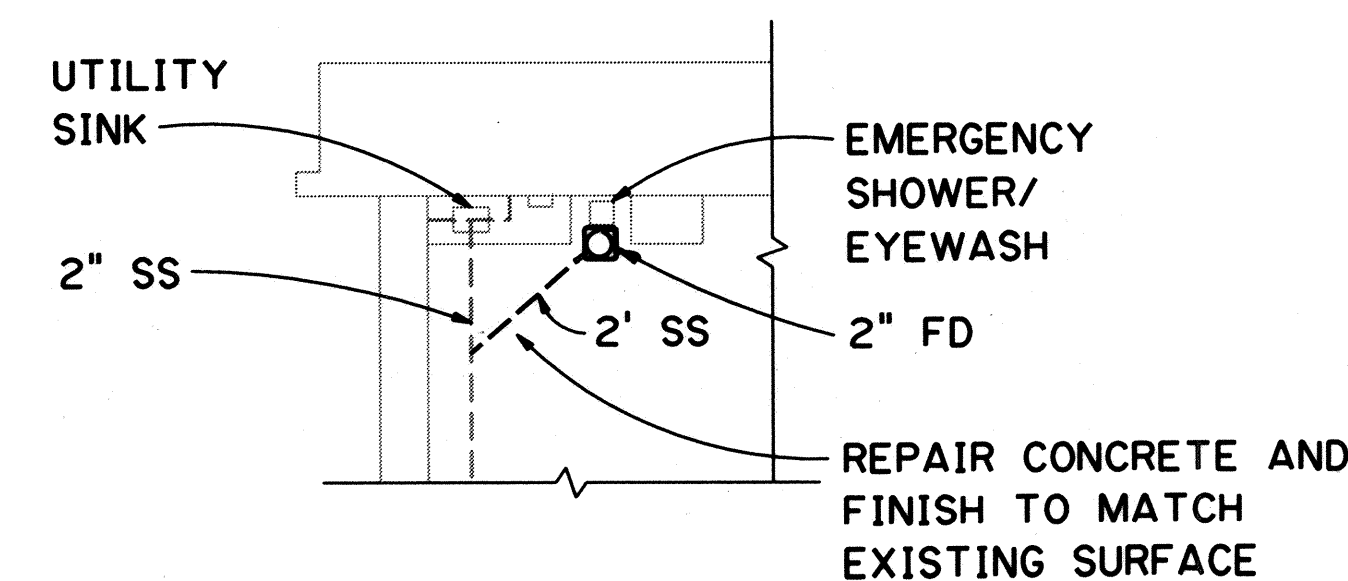
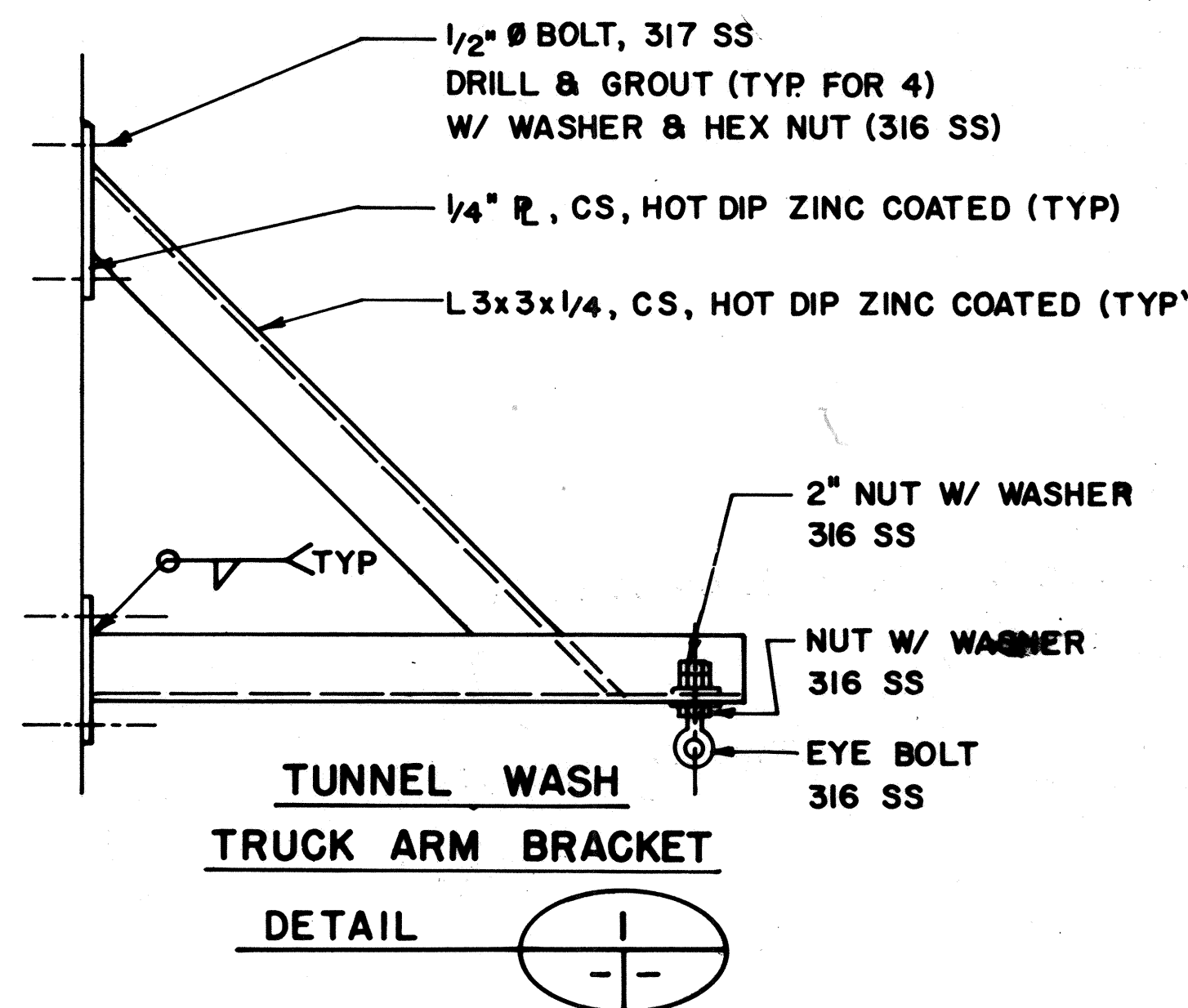
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	292 S-5	353



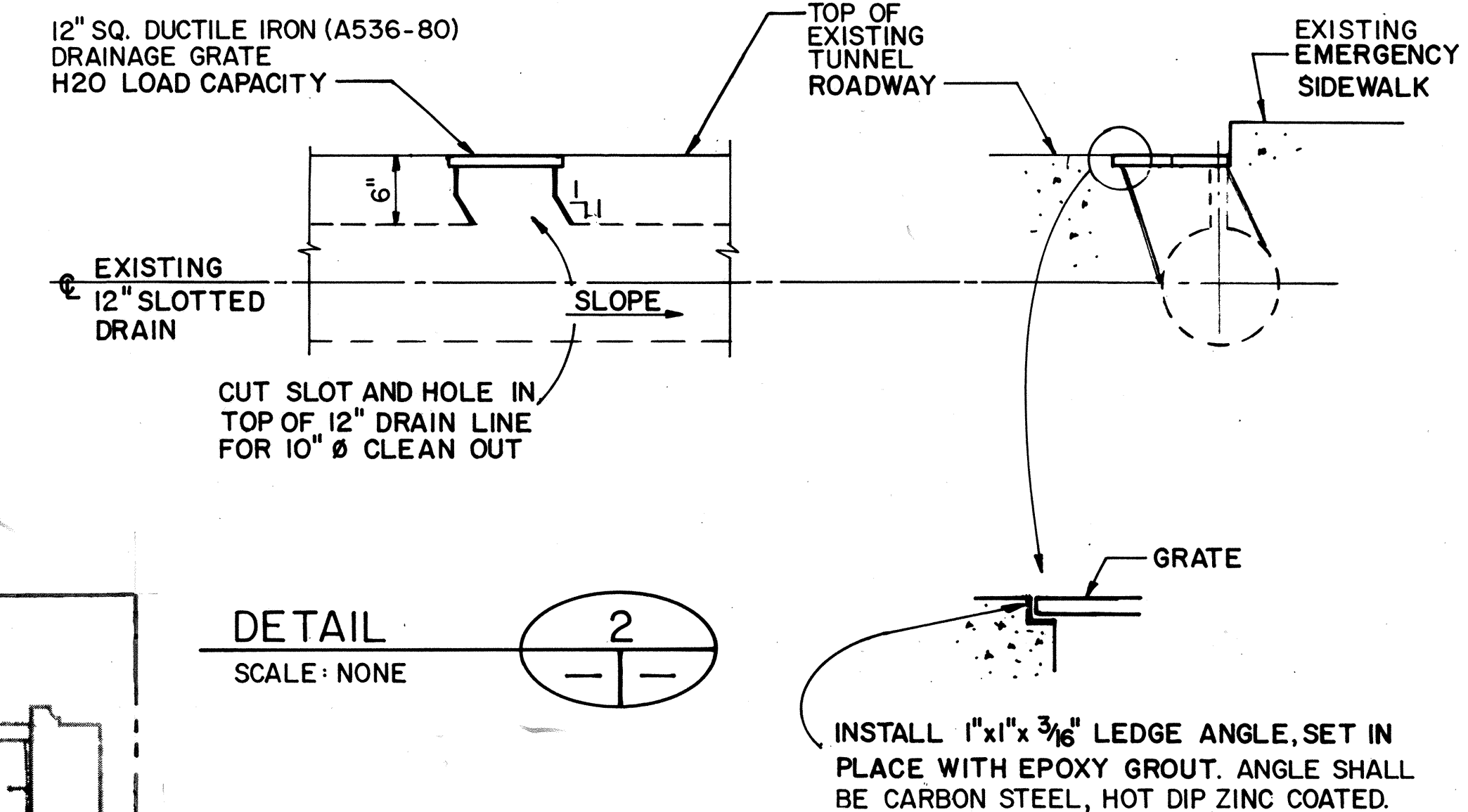
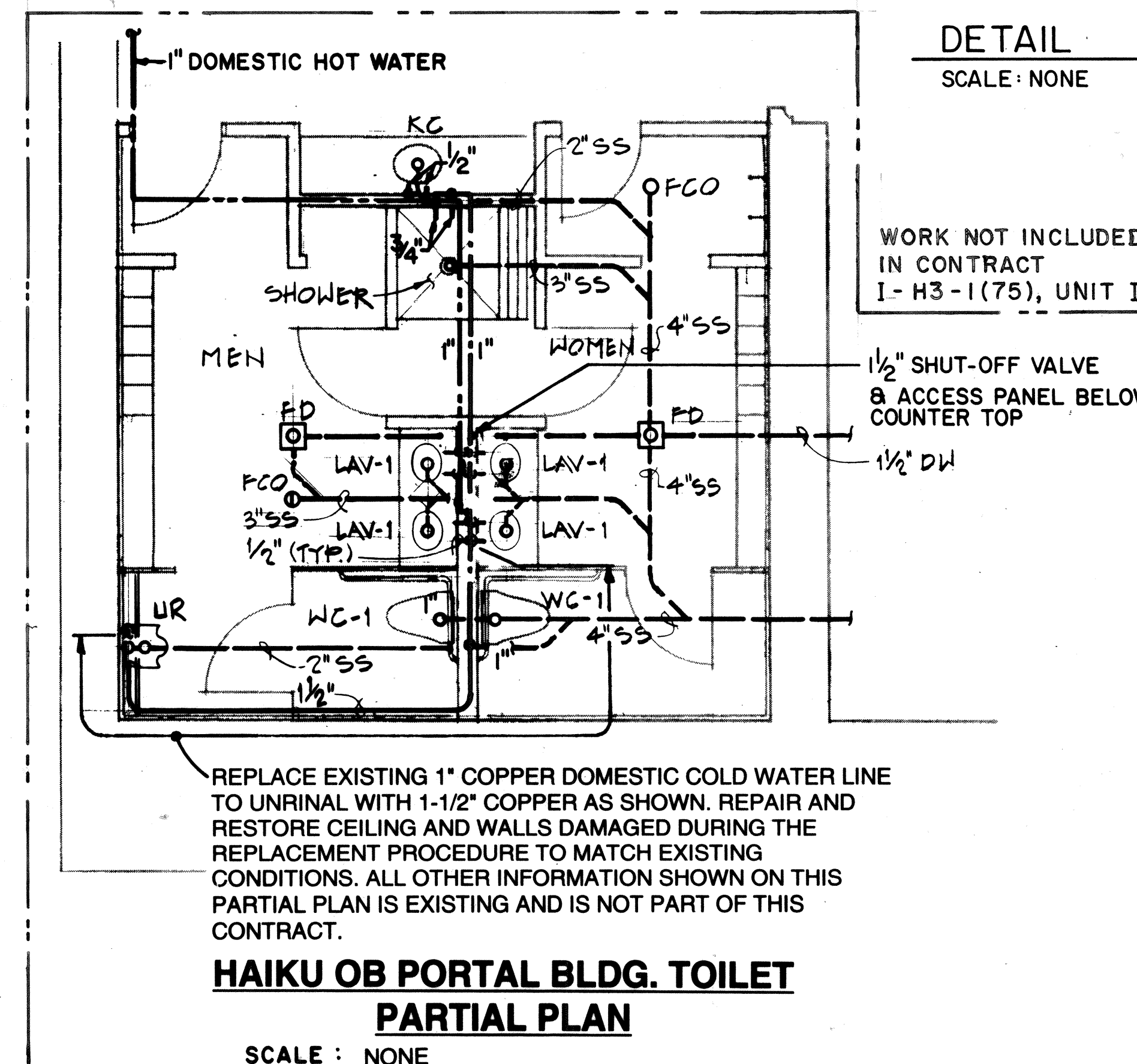
TUNNEL FLUE WEEP DETAIL

NOTE:

1. TUNNEL FLUES LOCATED IN EXISTING NORTHSIDE IB AND SOUTHSIDE OB TUNNELS.
2. FIELD VERIFY LOCATION OF EMBEDDED CONDUIT AND PIPE IN EXISTING CONCRETE LINING PRIOR TO DRILLING HOLE.



O & N FACILITY SHOP PARTIAL PLAN FLOOR DRAIN INSTALLATION

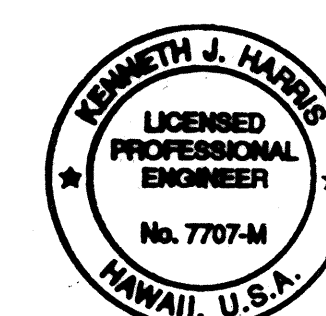


FOR DETAIL AS-BUILT INFORMATION
REFER TO CONSTRUCTION SUBMITTALS

DATE	REVISION
10/27/95	ADDENDUM 2 - ADDED TUNNEL FLUE WEEP AND O&M SHOP FLOOR DRAIN DETAILS
10/13/95	ADDENDUM 1

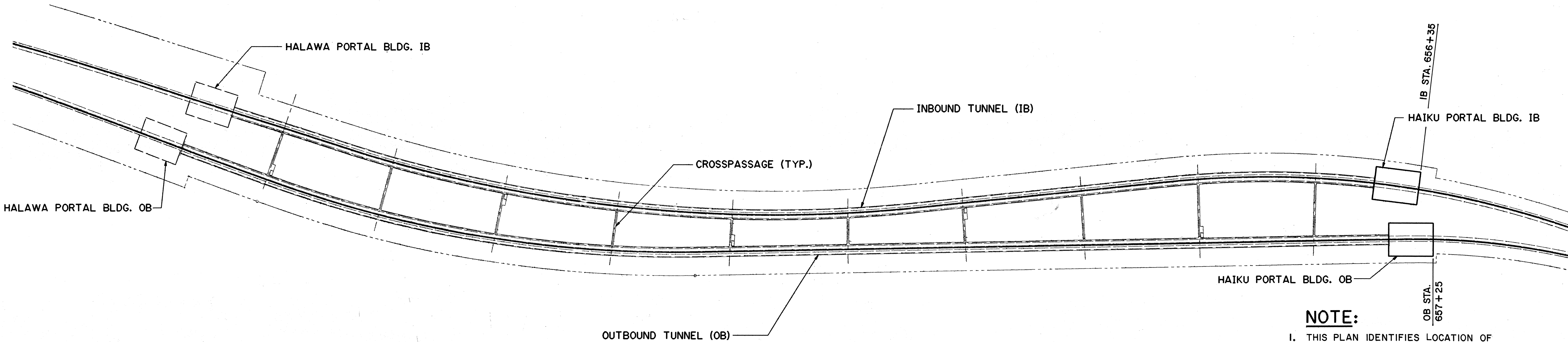
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
MISCELLANEOUS WORK ITEMS
COMMON WORK
H-3 FINISH (UNIT III)
FAIP NO. I-H3-1(75), UNIT III
T.K. TUNNEL/ACCESS ROADS

SCALE: NONE DATE: OCT 1995
SHEET NO. 7M13E OF 16 SHEETS



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Kenneth J. Harris



NOTE:

1. THIS PLAN IDENTIFIES LOCATION OF VALVE STATIONS (VS) CONTAINING VALVES REQUIRING CALIBRATION.
2. 2 1/2" VALVES SHALL BE SET AT 150 PSIG DOWNSTREAM PRESSURE.
3. 1 1/2" VALVES SHALL BE SET AT 100 PSIG DOWNSTREAM PRESSURE.
4. EACH VALVE STATION (VS) INDICATED CONTAINS ONE 2 1/2" VALVE AND ONE 1 1/2" VALVE.

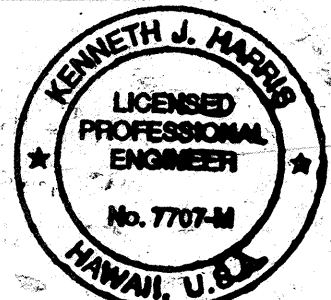
IB TUNNEL				
VS NO.	VS LOCATION	VS SIZE	VB LOCATION	VB NO.
1	606+17	B	-	
2	607+20	B	-	
3	608+45	A	608+44.25	1
4	609+70	B	-	
5	610+95	B	-	
6	612+03.708	B	-	
7	613+30	A	613+29.25	2
8	614+55	B	-	
9	615+80	B	-	
10	616+88.708	B	-	
11	618+15	A	618+14.25	3
12	619+40	B	-	
13	620+65	B	-	
14	621+73.708	B	-	
15	623+00	A	622+99.25	4
16	624+25	B	-	
17	625+50	B	-	
18	62+58.708	B	-	
19	627+85	A	627+84.25	5
20	629+10	B	-	
21	630+35	B	-	
22	631+58.708	B	-	
23	632+75	A	632+74.25	6
24	634+00	B	-	
25	635+25	B	-	

IB TUNNEL				
VS NO.	VS LOCATION	VS SIZE	VB LOCATION	VB NO.
26	636+38.708	B	-	
27	637+65	A	637+64.25	7
28	638+90	B	-	
29	640+15	B	-	
30	641+38.708	B	-	
31	642+65	A	642+64.25	8
32	643+90	B	-	
33	645+15	B	-	
34	646+37.7	B	-	
35	647+65	A	647+64.25	9
36	648+90	B	-	
37	650+15	B	-	
38	651+38.708	B	-	
39	652+65	A	652+64.25	10
40	653+90	B	-	
41	655+13	B	-	

OB TUNNEL				
VS NO.	VS LOCATION	VS SIZE	VB LOCATION	VB NO.
1	604+32	B	-	
2	605+60	B	-	
3	606+85	B	-	
4	608+10	A	608+09.25	1
5	609+35	B	-	
6	610+60	B	-	
7	611+83.708	B	-	
8	613+10	A	613+09.25	2
9	614+35	B	-	
10	615+60	B	-	
11	616+83.708	B	-	
12	618+10	A	618+09.25	3
13	619+35	B	-	
14	620+60	B	-	
15	621+83.708	B	-	
16	623+10	A	623+09.25	4
17	624+35	B	-	
18	625+60	B	-	
19	626+83.708	B	-	
20	628+10	A	628+09.25	5
21	629+35	B	-	
22	630+60	B	-	
23	631+83.708	B	-	
24	633+10	A	633+09.25	6
25	634+35	B	-	

OB TUNNEL				
VS NO.	VS LOCATION	VS SIZE	VB LOCATION	VB NO.
26	635+60	B	-	
27	636+83.708	B	-	
28	638+10	A	638+09.25	7
29	639+35	B	-	
30	640+60	B	-	
31	641+83.708	B	-	
32	643+10	A	643+09.25	8
33	644+35	B	-	
34	645+60	B	-	
35	646+73.708	B	-	
36	648+00	A	647+99.25	9
37	649+25	B	-	
38	650+50	B	-	
39	651+58.708	B	-	
40	652+85	A	652+84.25	10
41	654+10	B	-	
42	655+35	B	-	
43	656+03	B	-	

SURVEY PLOTTED BY: CAD
DATE: OCT 94
DRAWN BY: D. E. DRYDEN
CHECKED BY: K. J. HARRIS
NO. 1



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Kenneth J. Harris

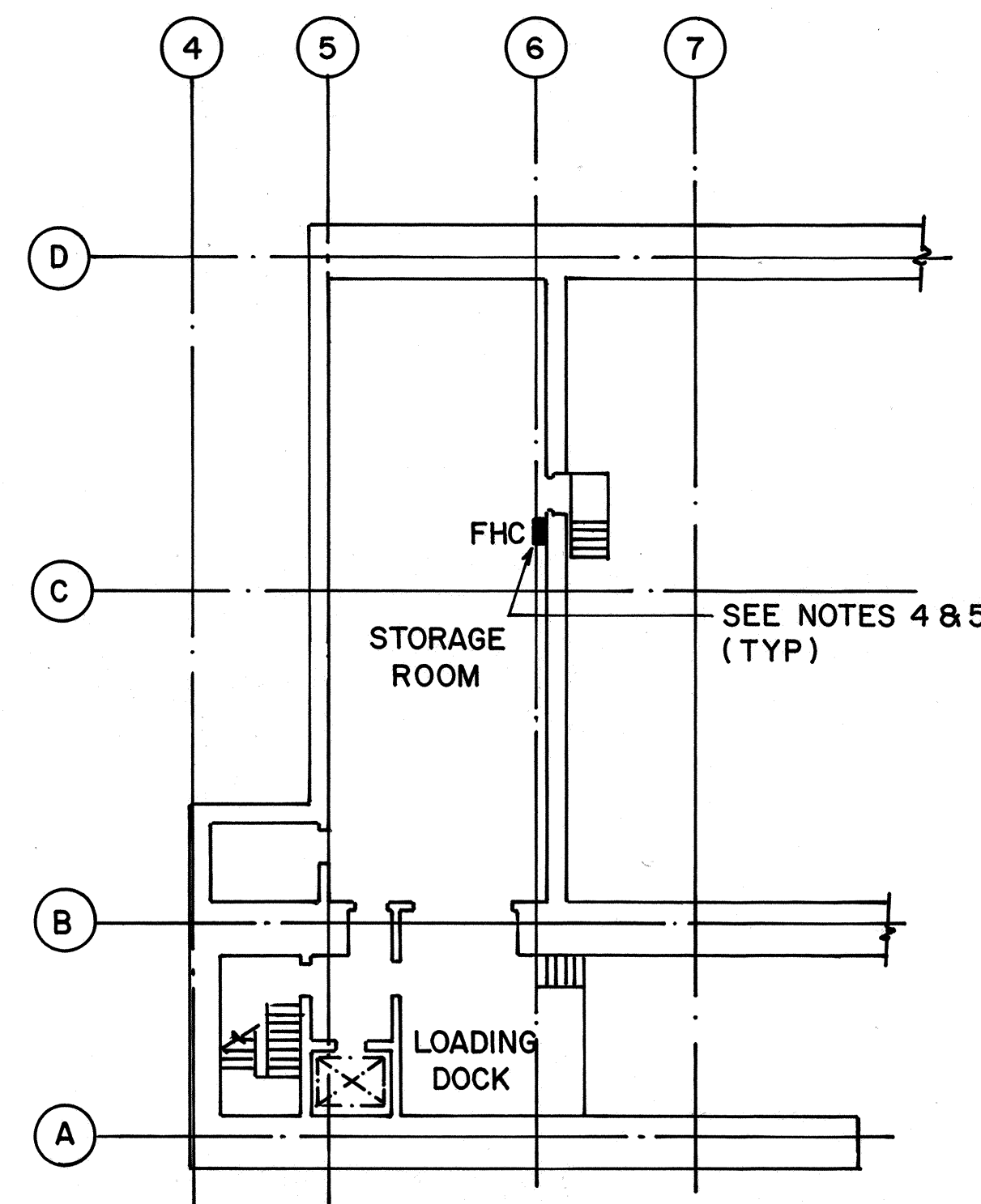
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**PRESSURE REDUCING HOSE VALVE
TESTING AND CALIBRATION - 2**
COMMON WORK
H-3 FINISH (UNIT III)
FAIP NO. I-H3-1(75), UNIT III
T.K. TUNNEL / ACCESS ROADS
SCALE: NONE DATE: JUN 1995
SHEET NO. 7MI5 OF 16 SHEETS

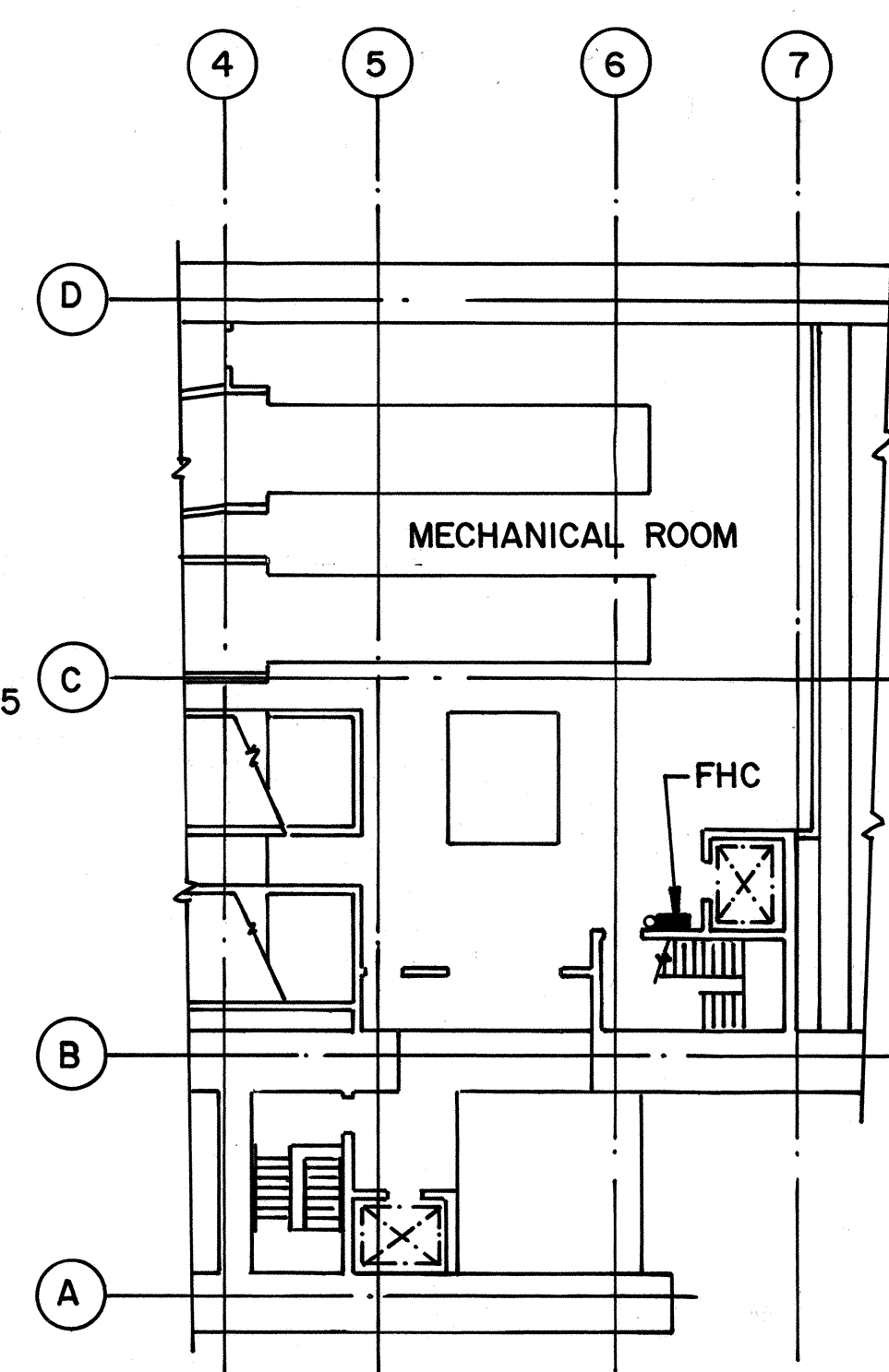
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	295	353

NOTES

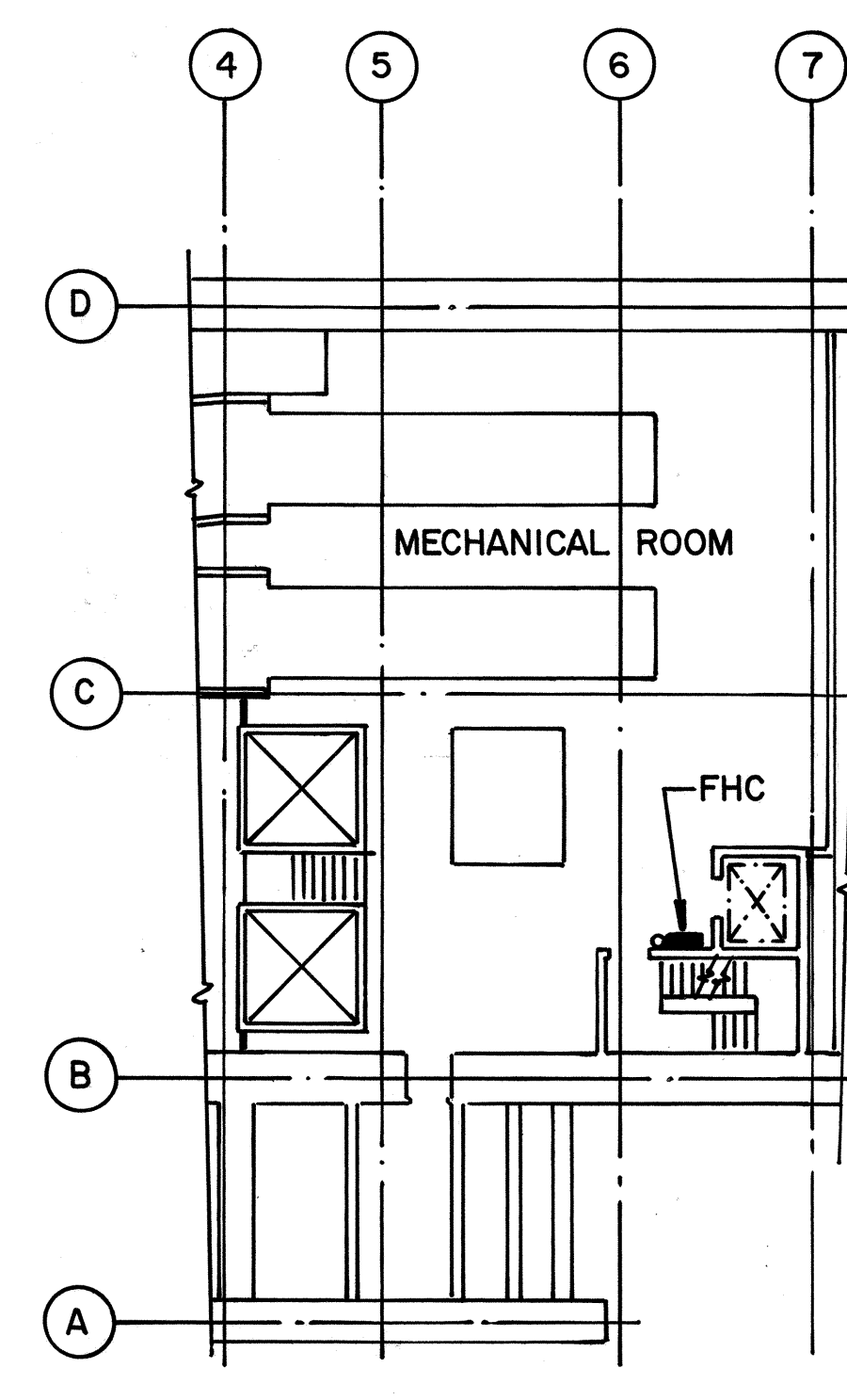
1. FHC FIRE HOSE CABINET
2. 2 1/2" VALVES SHALL BE SET AT 150 PSIG DOWNSTREAM PRESSURE.
3. 1 1/2" VALVES SHALL BE SET AT 100 PSIG DOWNSTREAM PRESSURE.
4. THIS PLAN IDENTIFIES LOCATION OF FIRE HOSE CABINETS WITH VALVES REQUIRING CALIBRATION.
5. FIRE HOSE CABINETS IN PORTAL BUILDINGS CONTAIN ONE 2 1/2" VALVE AND ONE 1 1/2" VALVE.



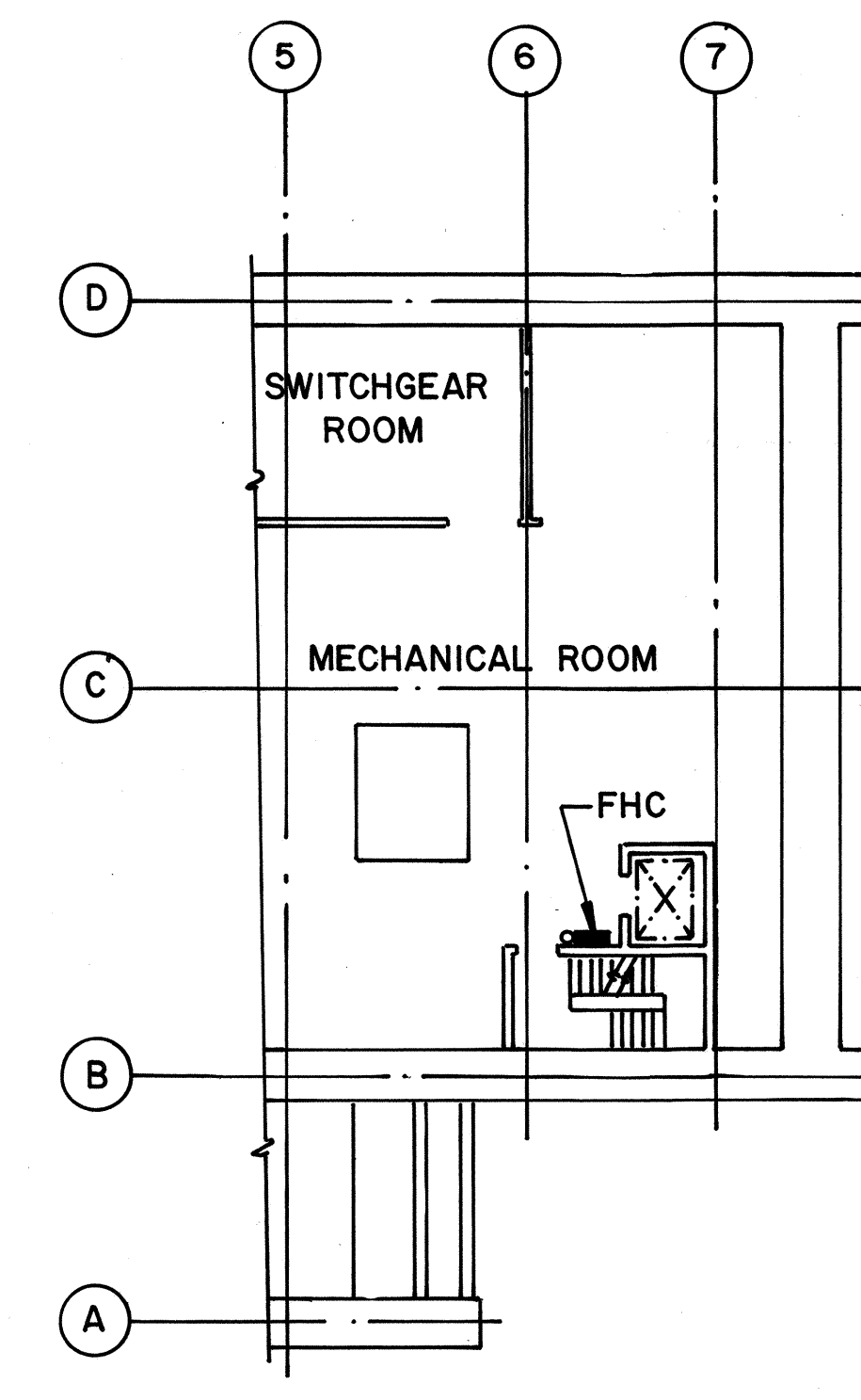
LEVEL A PARTIAL PLAN



LEVEL 2 PARTIAL PLAN

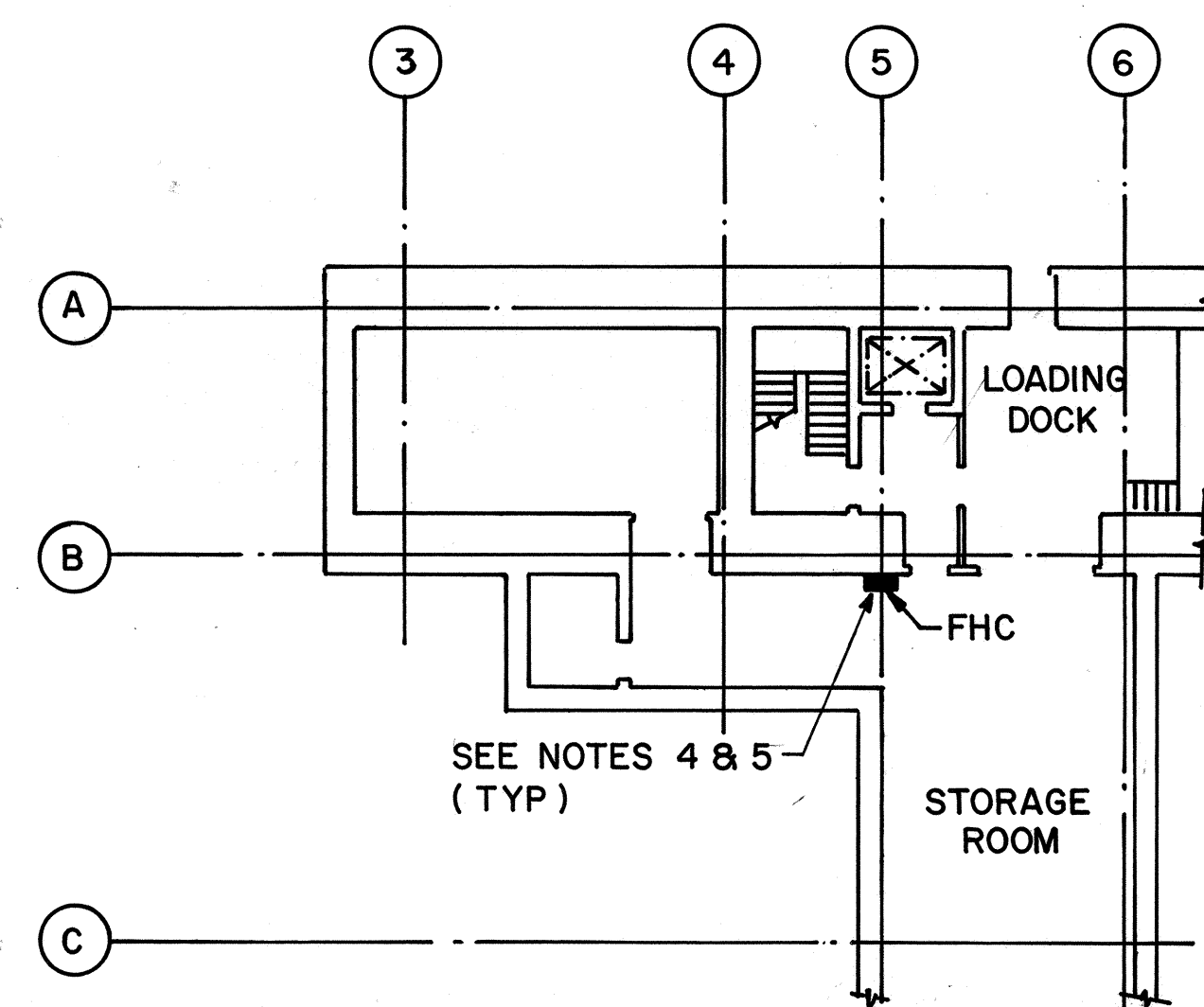


LEVEL 3 PARTIAL PLAN

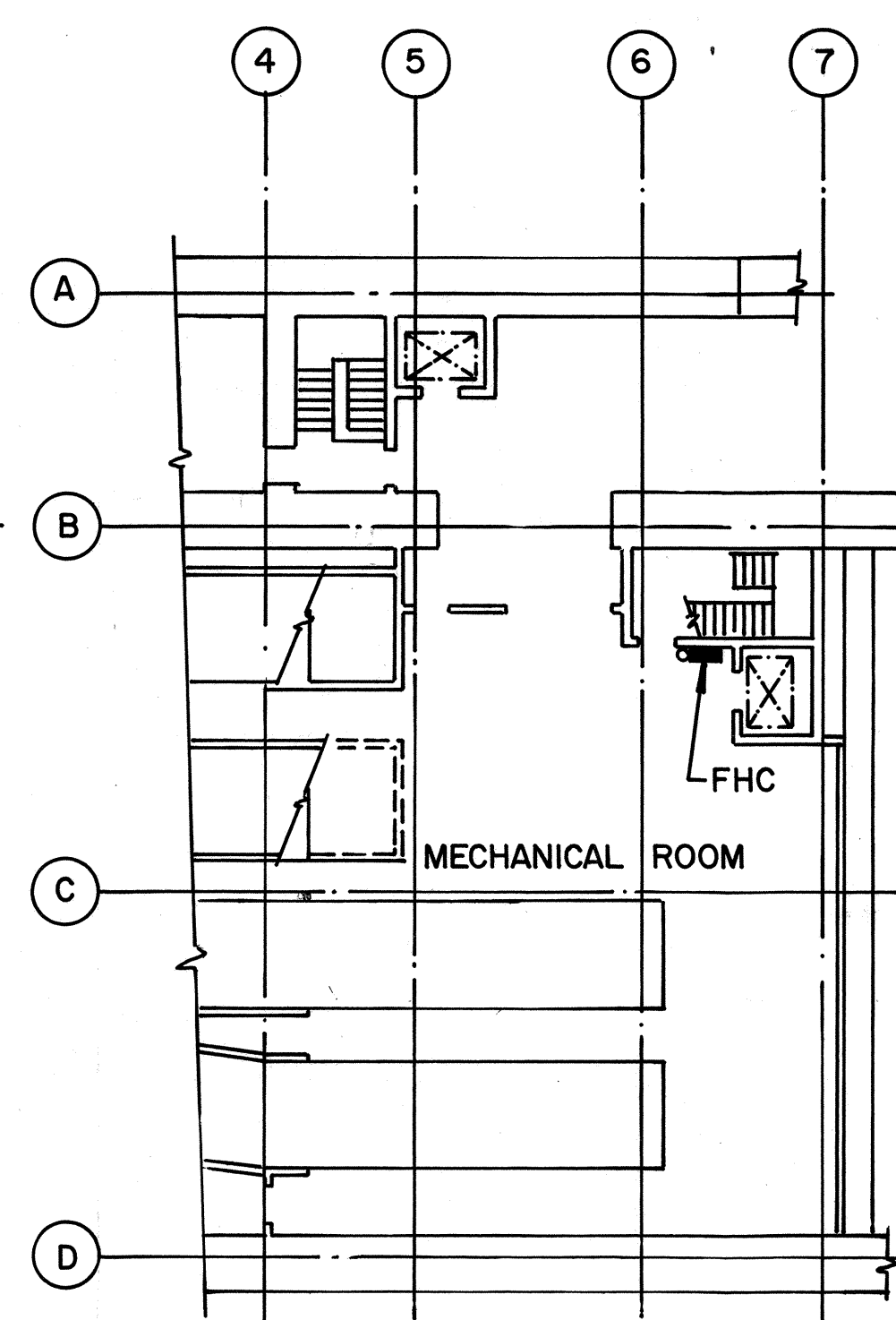


LEVEL 4 PARTIAL PLAN

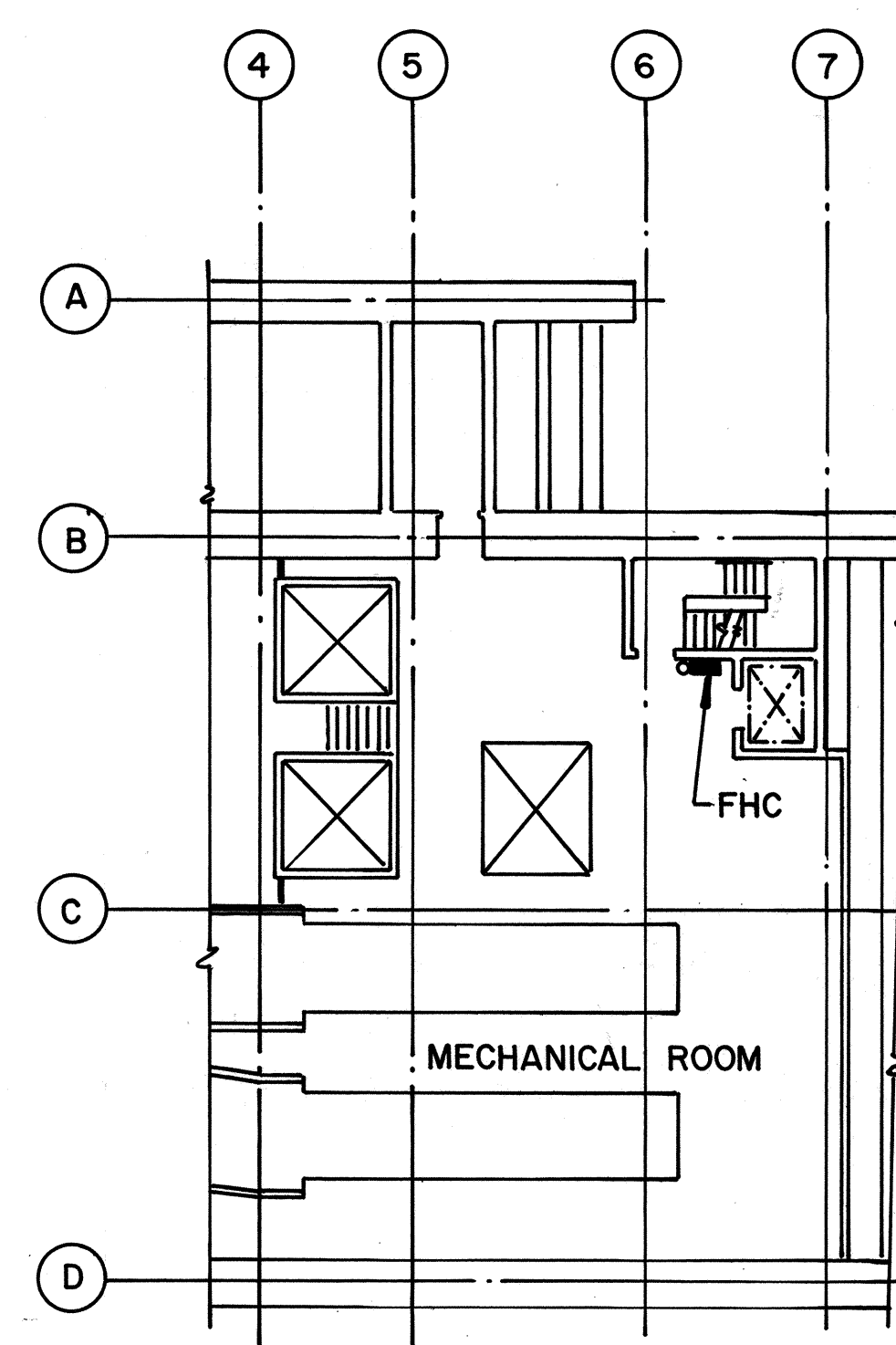
HAIKU INBOUND PORTAL BUILDING



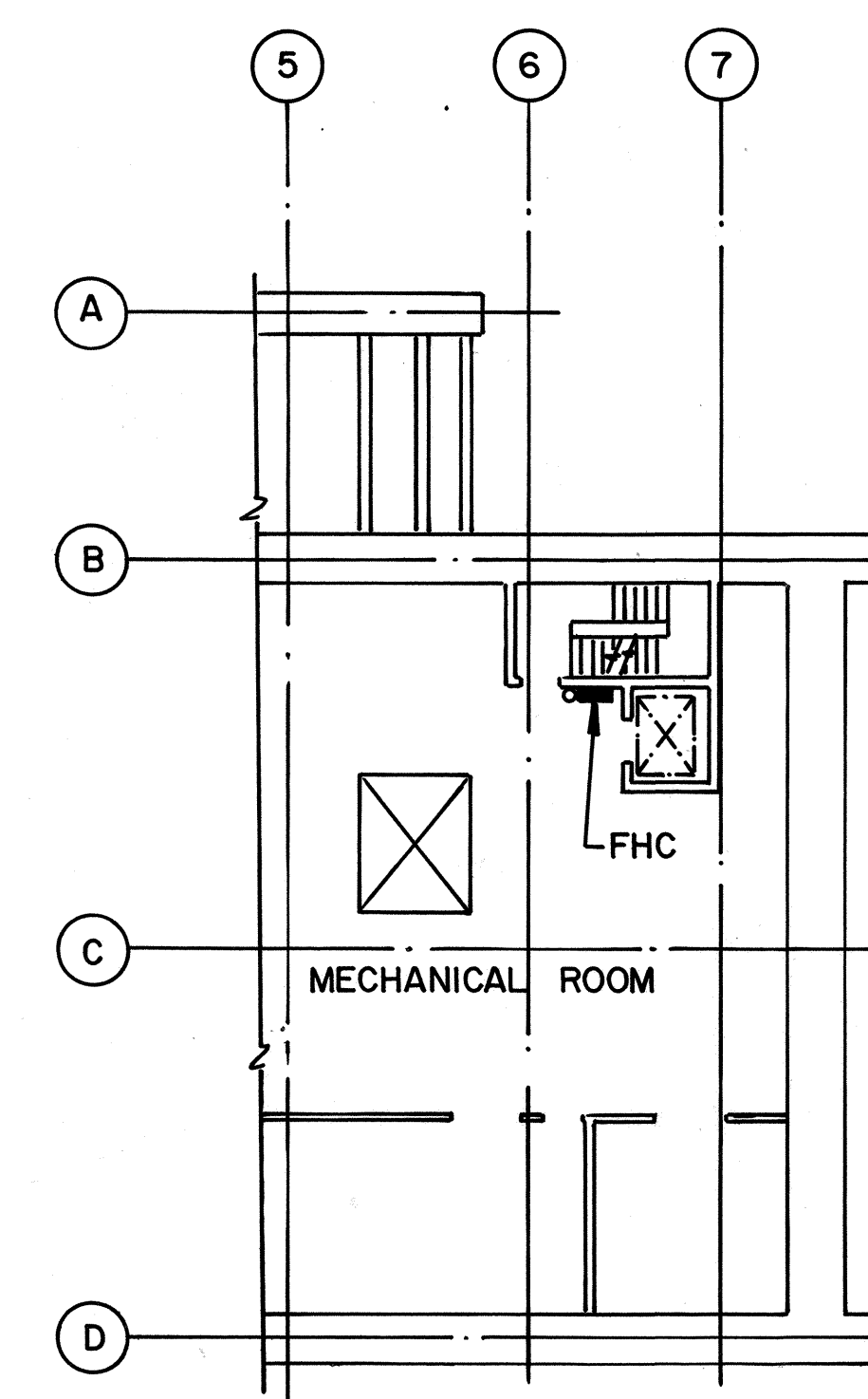
LEVEL A PARTIAL PLAN



LEVEL 2 PARTIAL PLAN



LEVEL 3 PARTIAL PLAN



LEVEL 4 PARTIAL PLAN

HAIKU OUTBOUND PORTAL BUILDING

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
	D. E. DRYDEN	OCT 94
NOTE BOOK	TRACED BY	
	DESIGNED BY	
	D. E. DRYDEN	OCT 94
	QUANTITIES BY	
	CHECKED BY	
	K. J. HARRIS	JAN 95
No. _____		

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PRESSURE REDUCING HOSE VALVE

TESTING AND CALIBRATION - 3

COMMON WORK

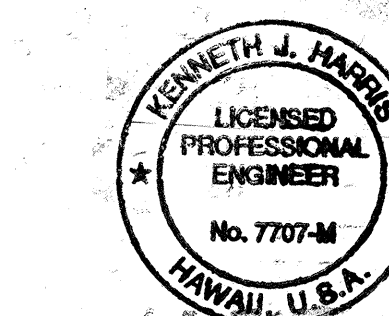
H-3 FINISH (UNIT III)

FAIP NO. I-H3-1(75), UNIT III

T.K. TUNNEL/ACCESS ROADS

SCALE: NONE
DATE: JUN 1995

SHEET NO. 7MI6 OF 16 SHEETS

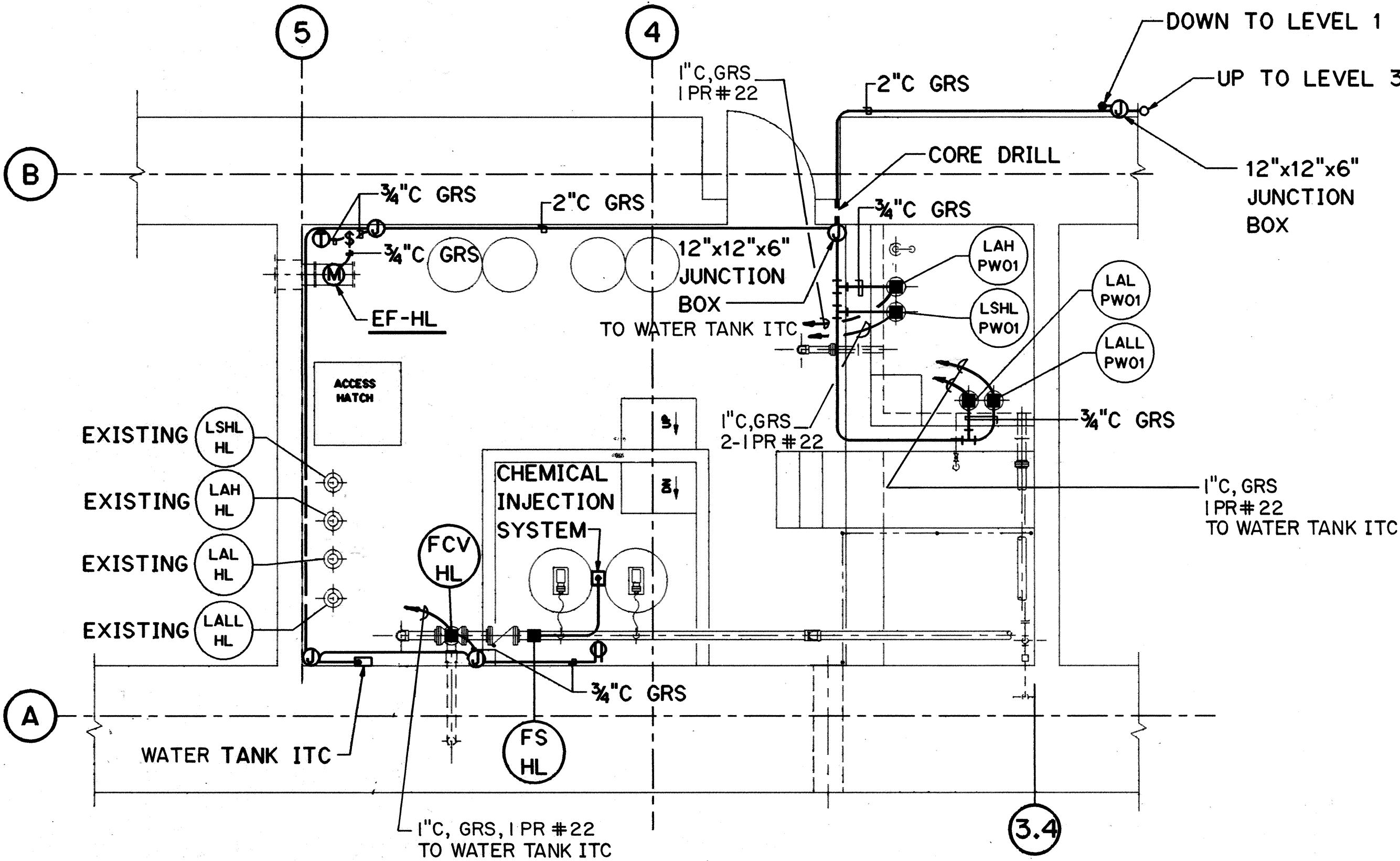


THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Kenneth A. Jones

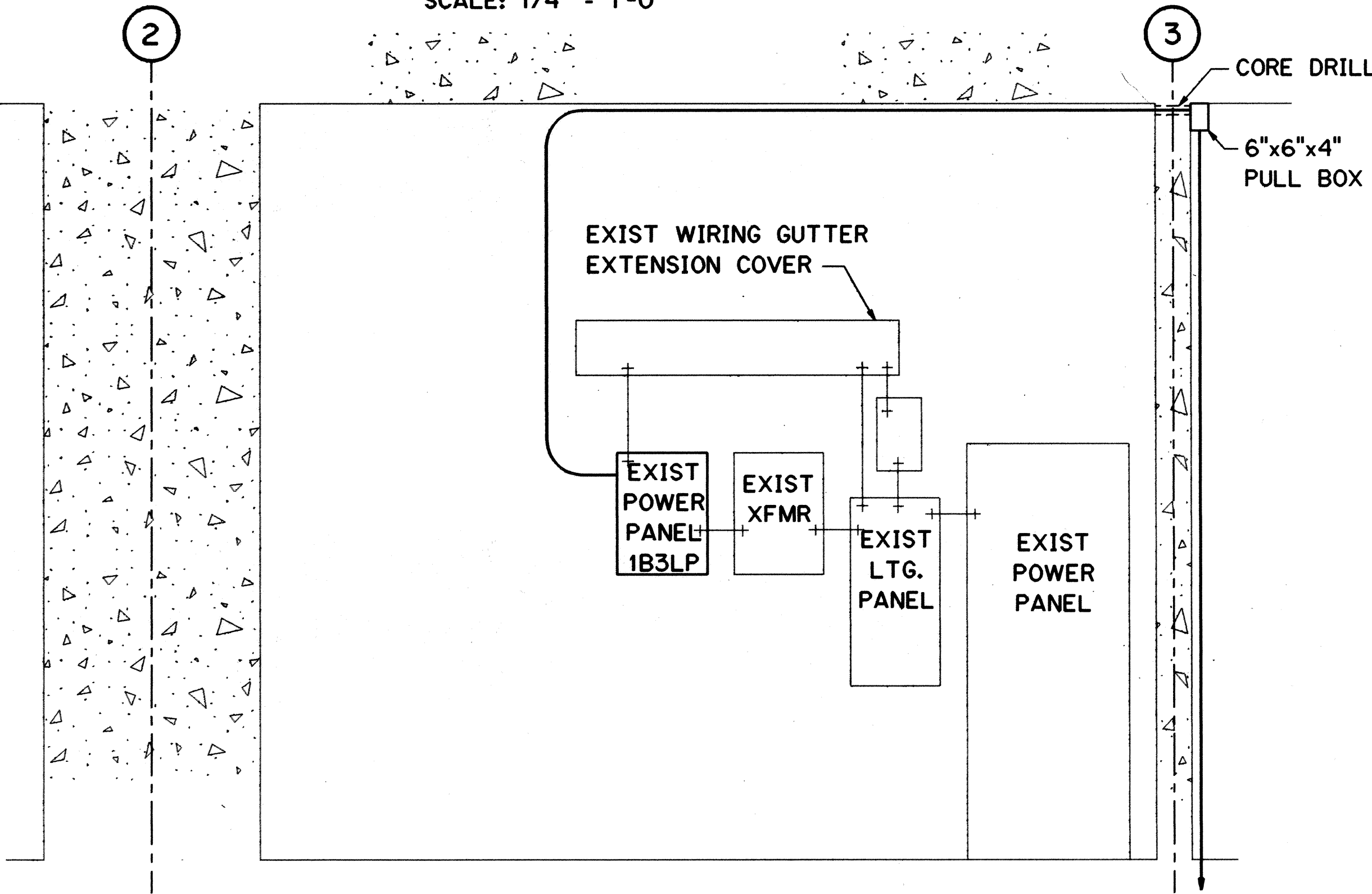
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	296	353

NOTE:
1. ALL CONDUITS ARE 1" GRS UNLESS NOTED OTHERWISE.



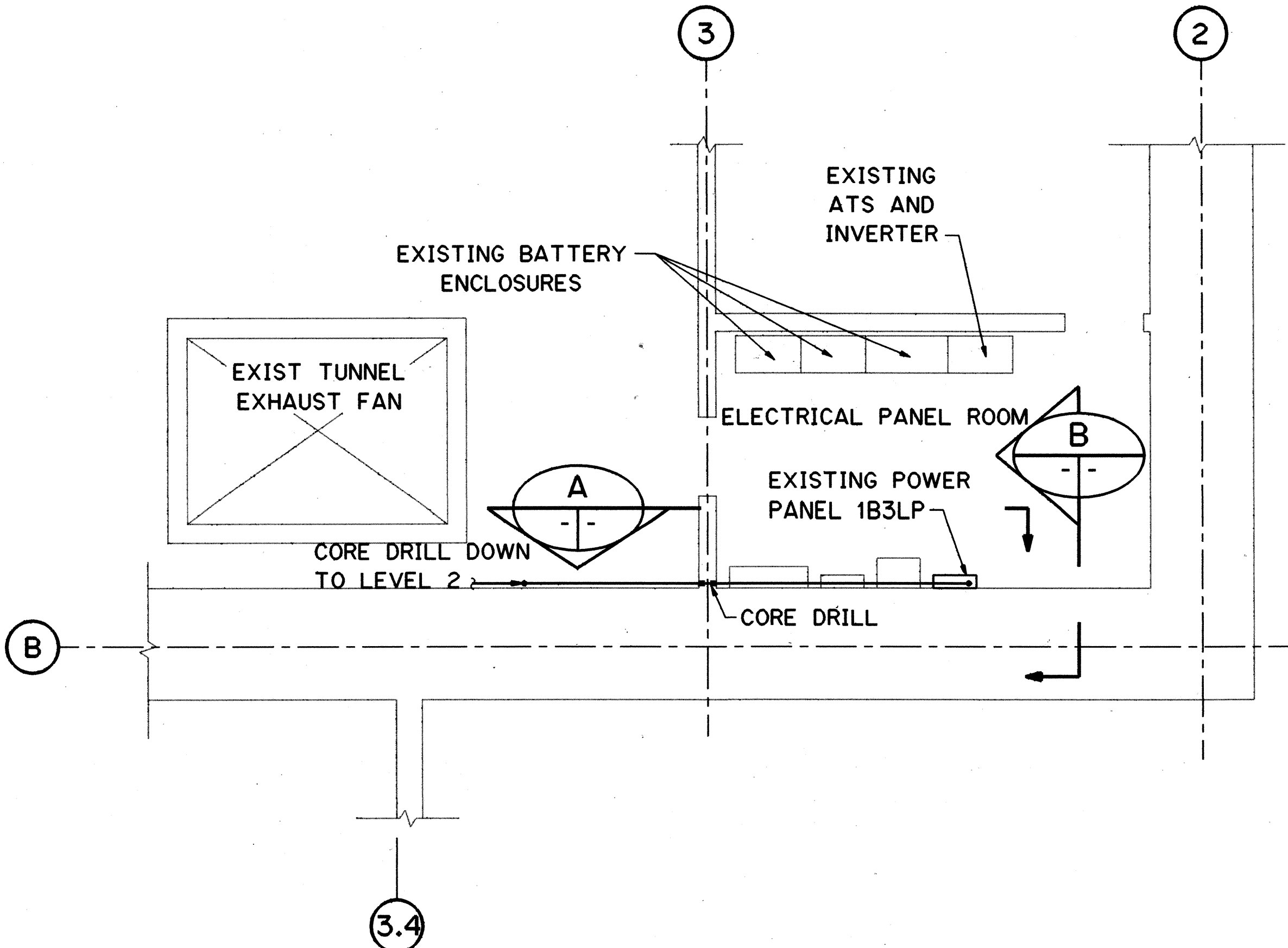
WATER TREATMENT AND TANK
ACCESS ROOM PLAN
HALAWA OB PORTAL BLDG-LEVEL 2

SCALE: 1/4" = 1'-0"



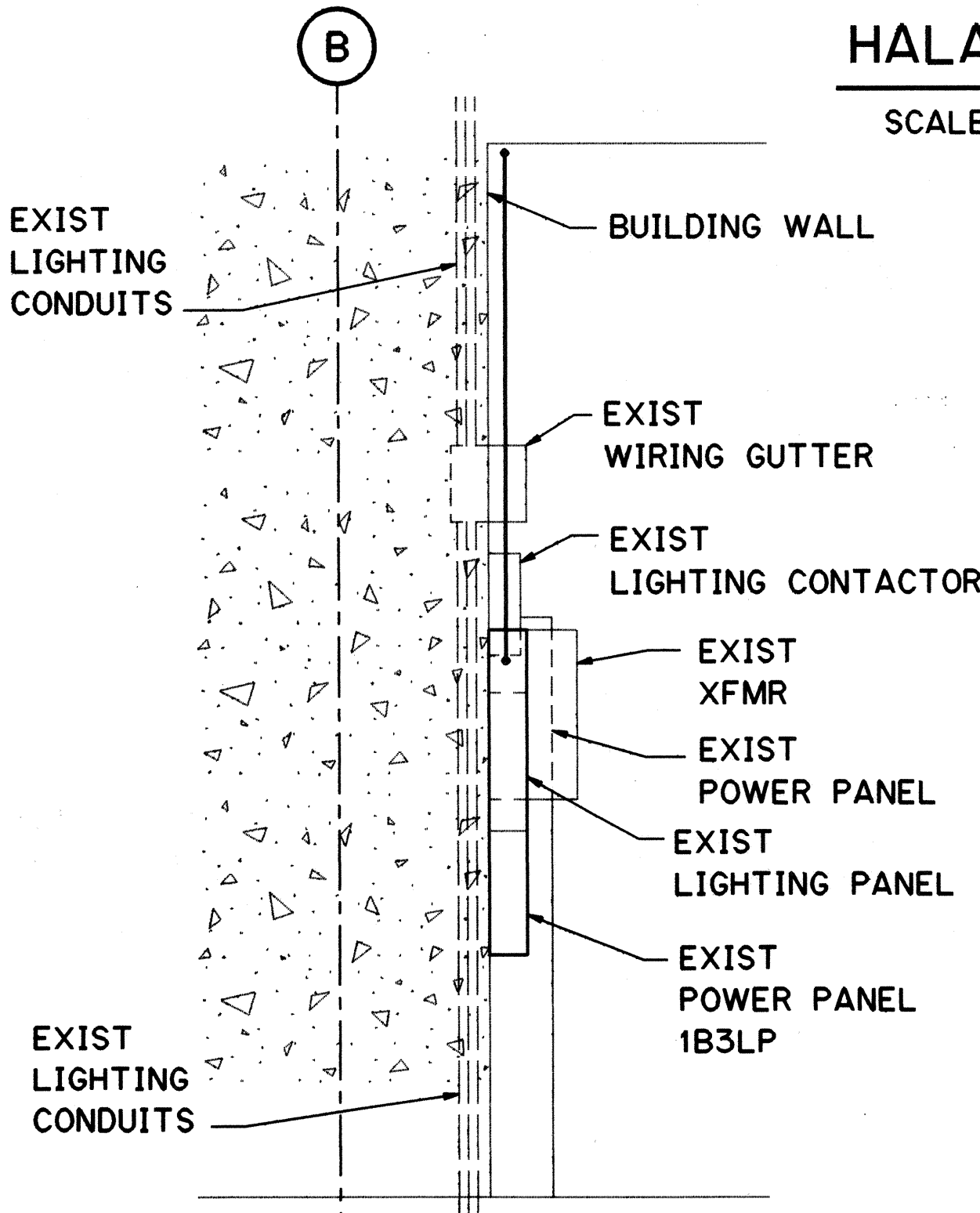
SECTION A

SCALE: 1/2" = 1'-0"



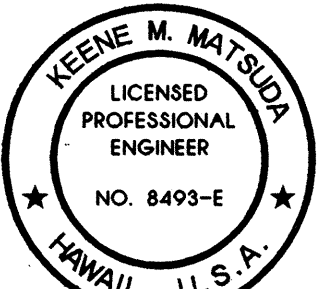
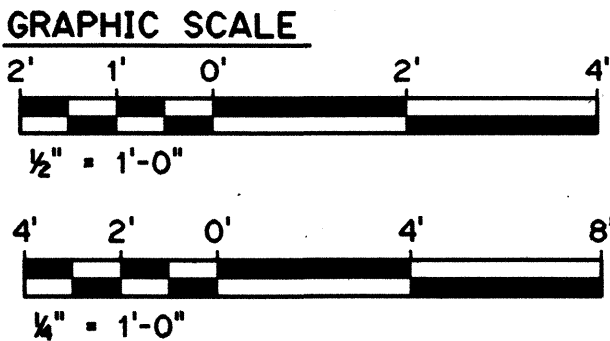
ELECTRICAL PANEL ROOM PLAN
HALAWA OB PORTAL BLDG-LEVEL 3

SCALE: 1/4" = 1'-0"



SECTION B

SCALE: 1/2" = 1'-0"



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Keene Matsuda

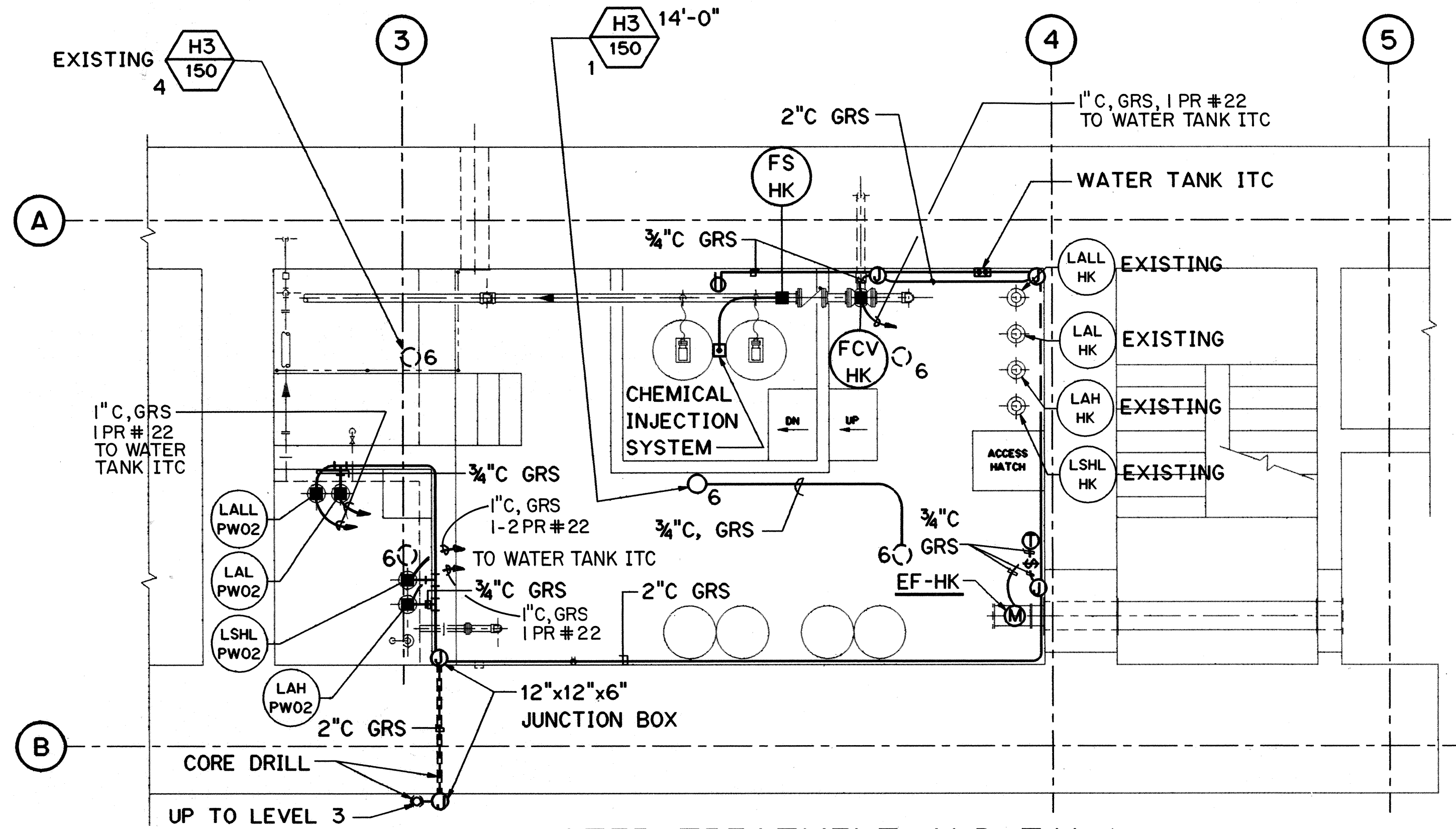
FOR DETAIL AS-BUILT INFORMATION
REFER TO CONSTRUCTION SUBMITTALS

DATE	REVISION
10/27/95	ADDENDUM 2- DELETED POTABLE WATER STOR. TK ITC, ADDED MONITORING CONDUIT
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
HALAWA POTABLE WATER TREATMENT POWER PLAN	
COMMON WORK	
H-3 FINISH (UNIT III)	
FAIP NO. I-H3-1(75), UNIT III	
T.K. TUNNEL/ACCESS ROADS	
SCALE: 1/2" = 1'-0"	DATE: JUN 1995
SHEET NO. 7E1	OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	297	353

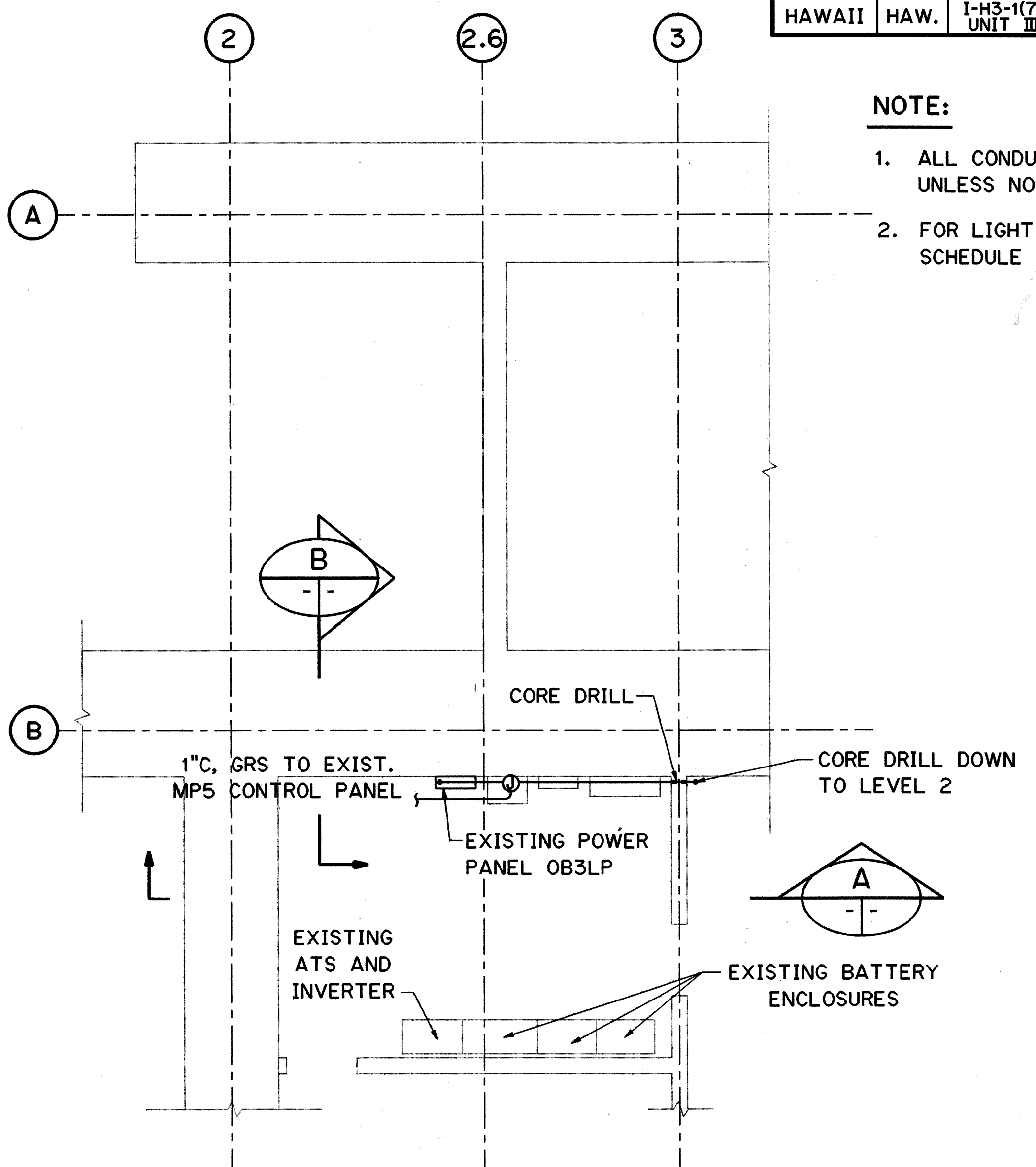
NOTE:

1. ALL CONDUITS ARE 1" GRS UNLESS NOTED OTHERWISE.
2. FOR LIGHTING FISTURE SCHEDULE SEE SHT NO. 3E10.



WATER TREATMENT AND TANK
ACCESS ROOM PLAN
HAIKU OB PORTAL BLDG-LEVEL 2

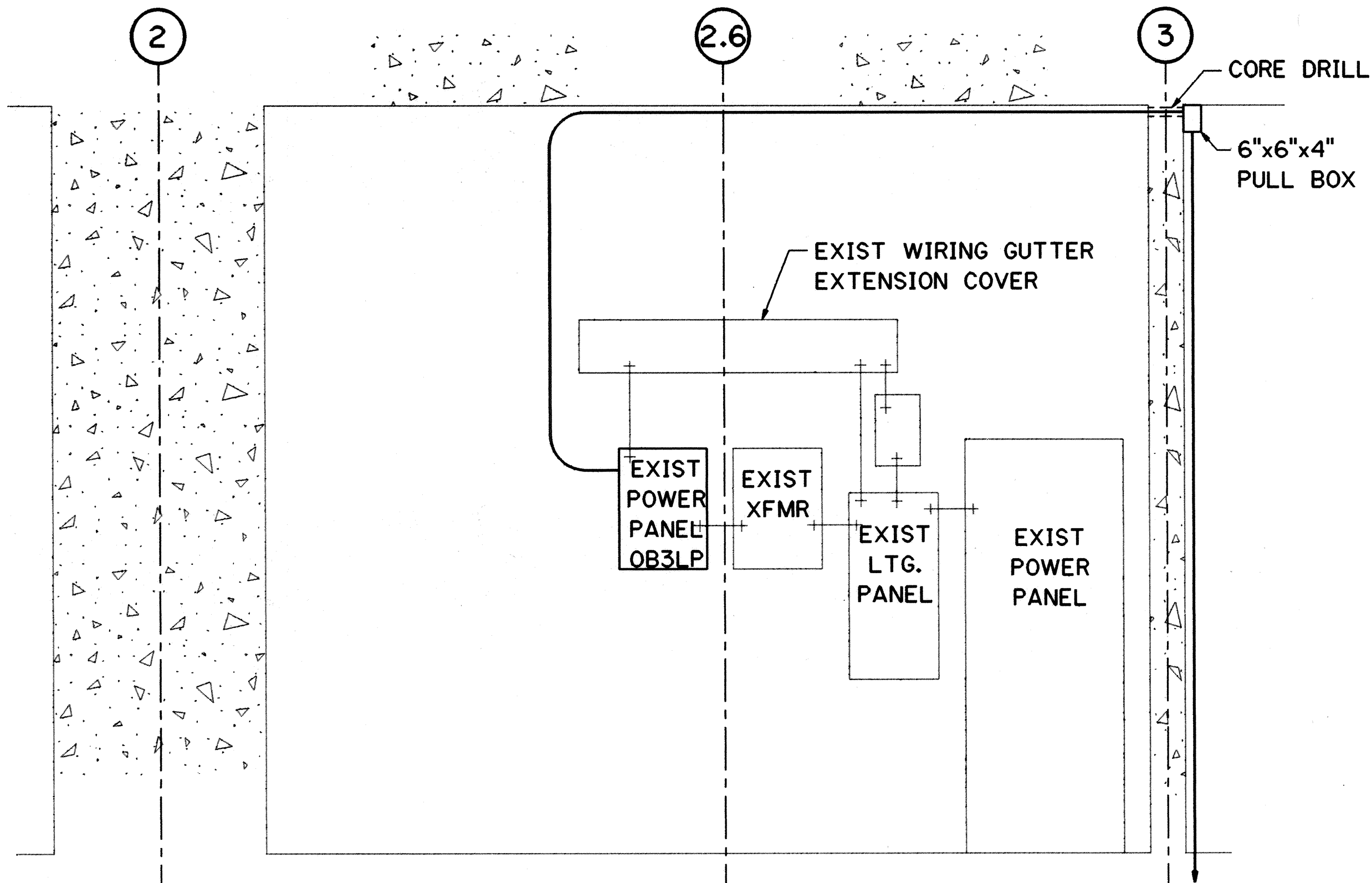
SCALE: 1/4" = 1'-0"



ELECTRICAL PANEL ROOM PLAN
HAIKU OB PORTAL BLDG-LEVEL 3

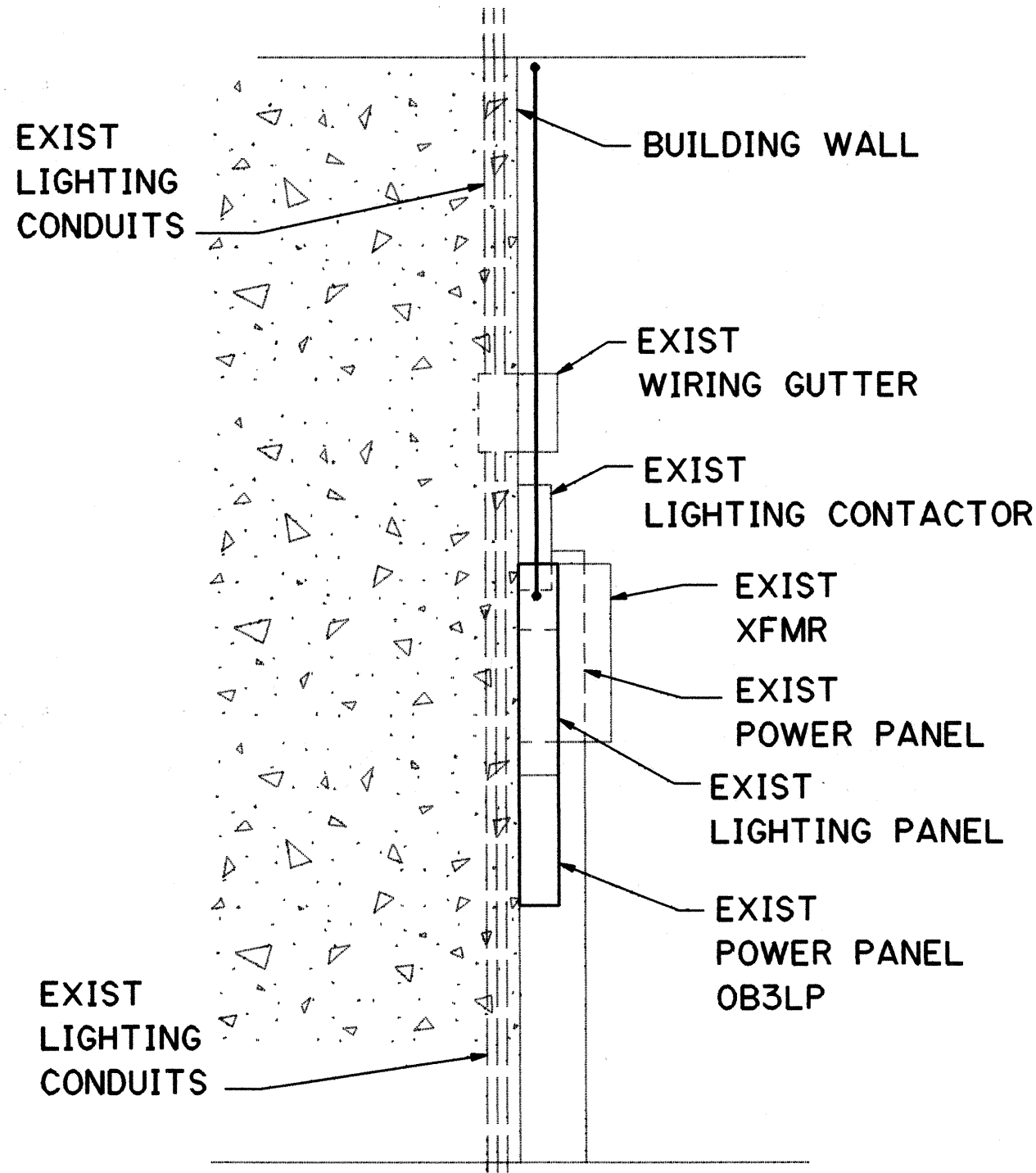
SCALE: 1/4" = 1'-0"

FOR DETAIL AS-BUILT INFORMATION
REFER TO CONSTRUCTION SUBMITTALS



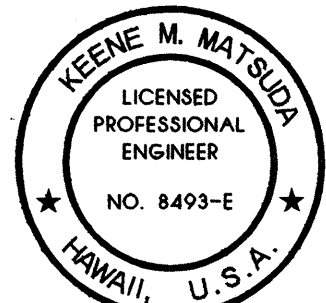
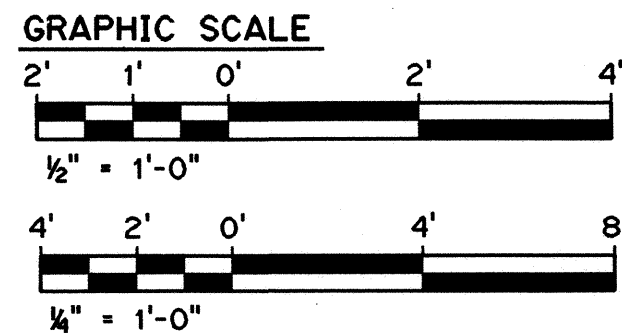
SECTION A

SCALE: 1/2" = 1'-0"



SECTION B

SCALE: 1/2" = 1'-0"



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Keene Matsuda

10/27/95	ADDENDUM 2-ADDED MONITORING CONDUIT
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
HAIKU WATER TREATMENT	
POWER PLAN	
COMMON WORK	
H-3 FINISH (UNIT III)	
FAIP NO. I-H3-1(75), UNIT III	
T.K. TUNNEL/ACCESS ROADS	
SCALE: AS SHOWN	DATE: JUN 1995
SHEET NO. 7E2	OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	298	353

SYSTEM: 208Y/120V 3Ø, 4W	PANEL - IB3LP	PANEL LOCATION: ELECT. ROOM, LEVEL 3, HALAWA IB
MAINS: 125A LUGS ONLY	(EXISTING)	SUPPLY LOCATION: PANEL IB3HL1 VIA XFMR T4-5
SHORT CIRCUIT RATING: 10 KAIC		ELECT. ROOM, LEVEL 3, HALAWA IB

[illegible]

— FAIP NO. I-H3-1(75), UNIT III

— FAIP NO. I-H3-1(75), UNIT III

SYSTEM: 208Y/120V 3Ø, 4W	PANEL - 0B3LP	PANEL LOCATION: ELECT. ROOM, LEVEL 3, HAIKU OB
MAINS: 125A LUGS ONLY	(EXISTING)	SUPPLY LOCATION: PANEL 0B3HLI VIA XFMR T4-6
SHORT CIRCUIT RATING: 10 KAIC		ELECT. ROOM, LEVEL 3, HAIKU OB

[illegible]

— FAIP NO. I-H3-1(75), UNIT III

— FAIP NO. I-H3-1(75), UNIT III

DATE	REVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PANEL SCHEDULES

COMMON WORK

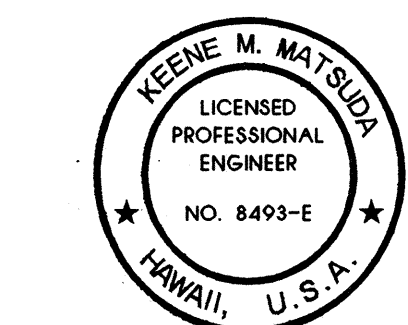
H-3 FINISH (UNIT III)

FAIP NO. I-H3-1(75), UNIT III

T.K. TUNNEL/ACCESS ROADS

SCALE: NONE
DATE: JUN 1995

SHEET NO. 7E3
OF 6
SHEETS

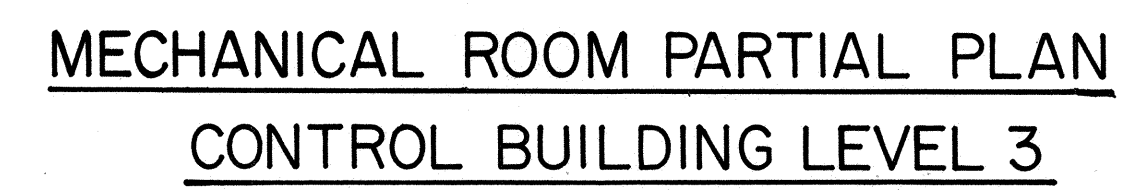


THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Keene Watson

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	" MAY 95
	TRACED BY	"
	DESIGNED BY	" MAY 95
	QUANTITIES BY	"
NO.	CHECKED BY	" MAY 95
		"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	" MAY 95
	DESIGNED BY	" MAY 95
	QUANTITIES BY	" MAY 95
	CHECKED BY	" MAY 95
NO.		



LEGEND

———— CONDUIT RUN LOCATED IN MECHANICAL ROOM, LEVEL 3

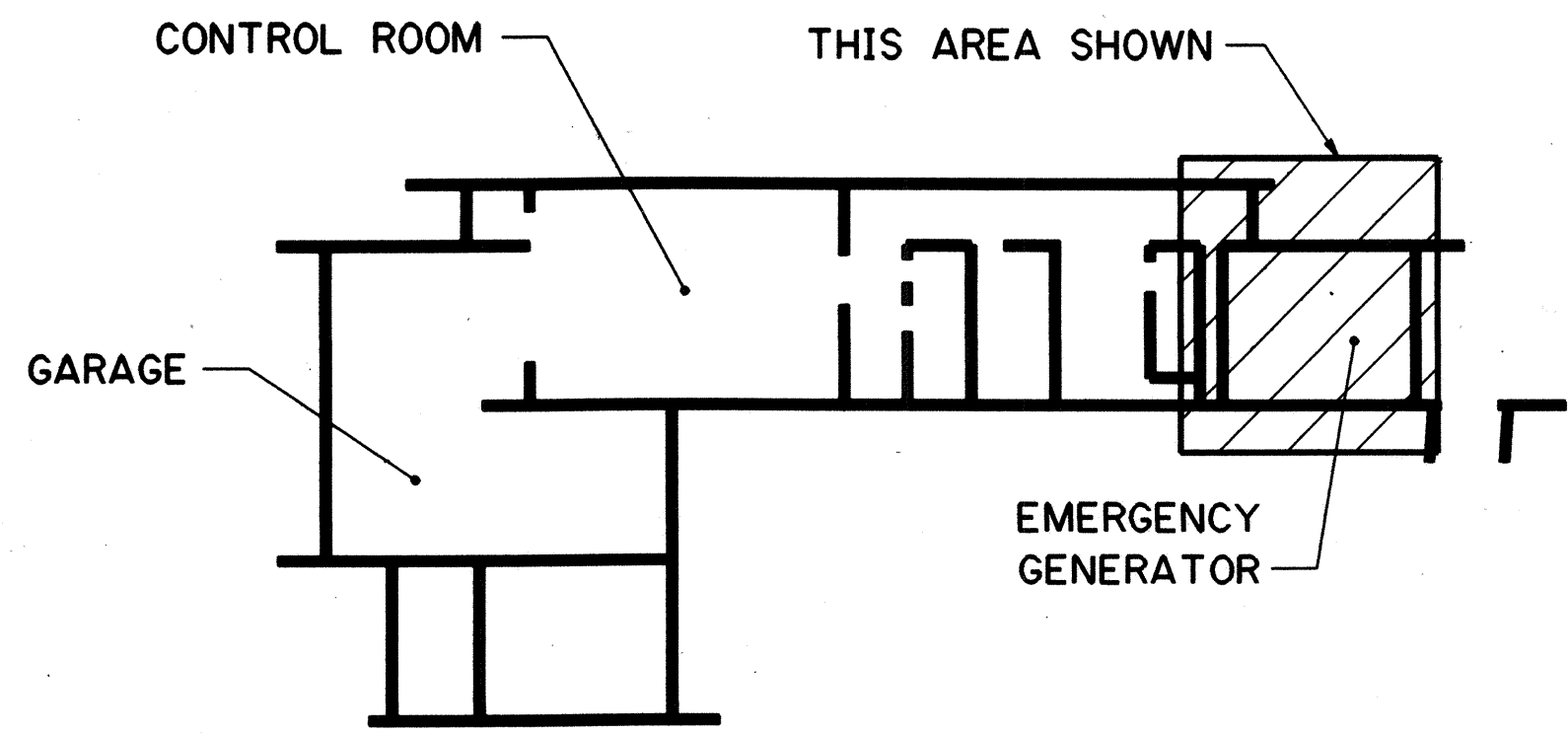
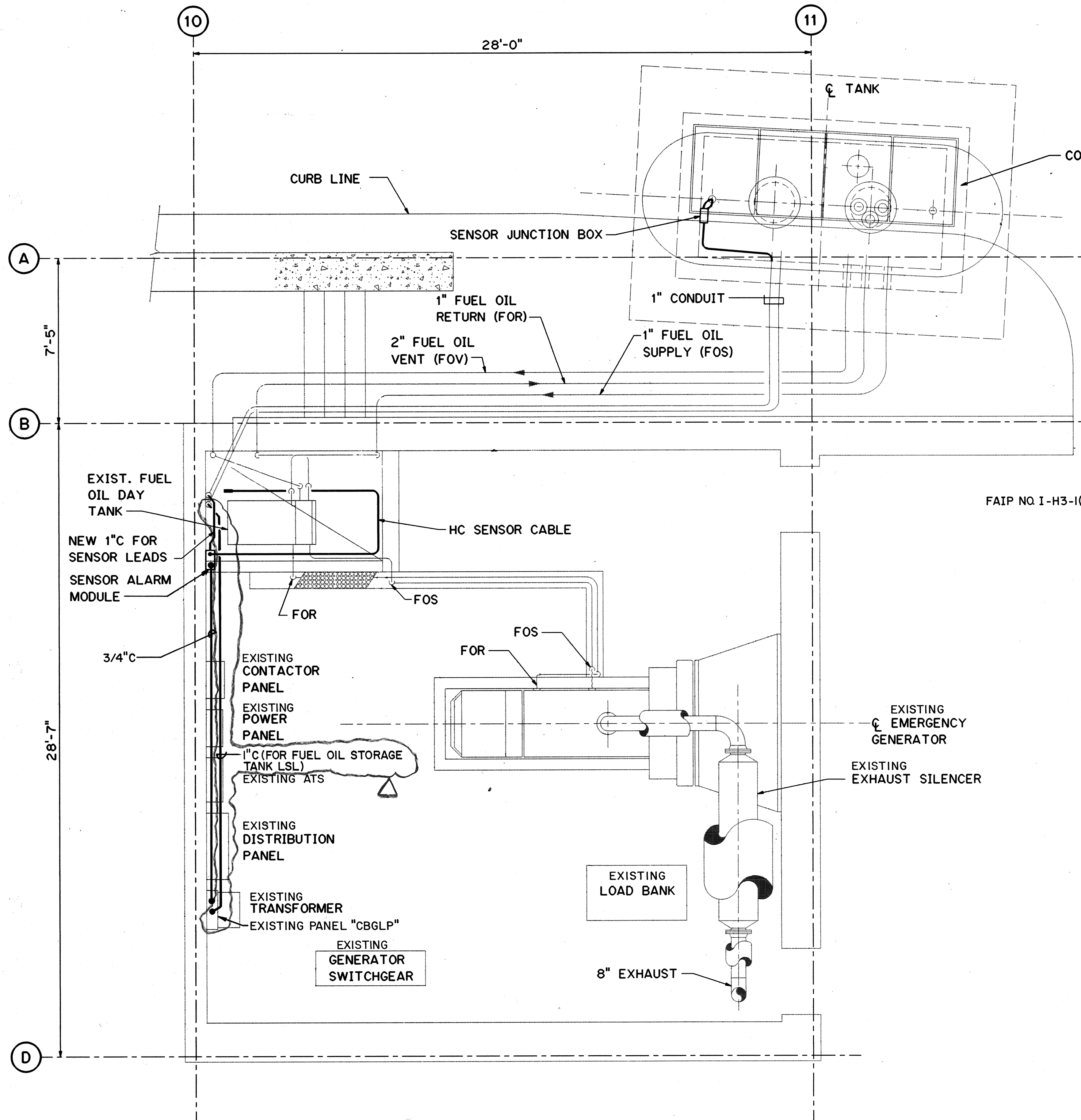
- - - CONDUIT RUN LOCATED IN ELECTRICAL ROOM, LEVEL 2

FOR DETAIL AS-BUILT INFORMATION
REFER TO CONSTRUCTION SUBMITTALS



THIS WORK WAS PREPARED BY
OR UNDER MY SUPERVISION

Keene Matrone



KEY PLAN

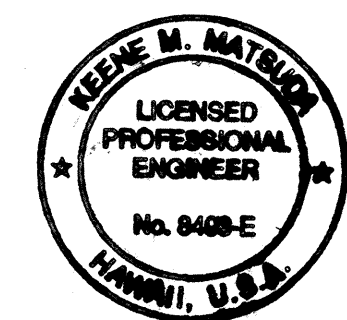
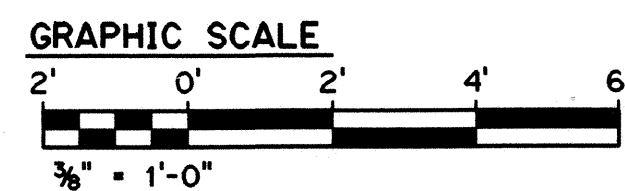
SYSTEM: 120/240V 1Ø 3W		PANEL - MPC - CBGLP		PANEL LOCATION: GEN. ROOM																
MAINS: 40AT/100AF 2P CB		(EXISTING)		SUPPLY LOCATION: PNL "CBGHP"/XFMR. (IN MPC)																
SHORT CIRCUIT RATING: 10 KAIC				GEN. ROOM																
SERVICE	CKT. NO.	LOAD KVA			CIRCUIT BREAKER			WIRE AWG	A	B	C	WIRE AWG	CIRCUIT BREAKER			LOAD KVA			CKT. NO.	SERVICE
		A	B	C	FRAME	POLES	TRIP						TRIP	POLES	FRAME	A	B	C		
LSL-FUEL OIL TANK	1			0.12	100	1	20 #12					20	1	100	0.4			2	MP-3	
SENSOR ALARM MOD	3		1.44				#12								0.9			4	RECEPTACLE	
BATTERY CHARGER	5	0.72																6	SPARE	
SPARE	7																	8		
															</					

FAIP NO. I-H3-1(75), UNIT III
EXISTING

EXISTING

FAIP NO. I-H3-1(75), UNIT III

FOR DETAIL AS-BUILT INFORMATION
REFER TO CONSTRUCTION SUBMITTALS



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Keene Matsuda

5/1/97	DCN 75-017: INDICATED CONDUIT AND WIRING FOR FUEL OIL STORAGE TANK LSL
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**FUEL OIL SYSTEM LEAK
DETECTORS POWER PLAN**

COMMON WORK
H-3 FINISH (UNIT III)
FAIP NO. I-H3-1(75), UNIT III
T.K. TUNNEL/ACCESS ROADS

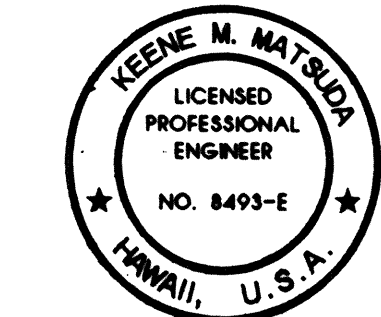
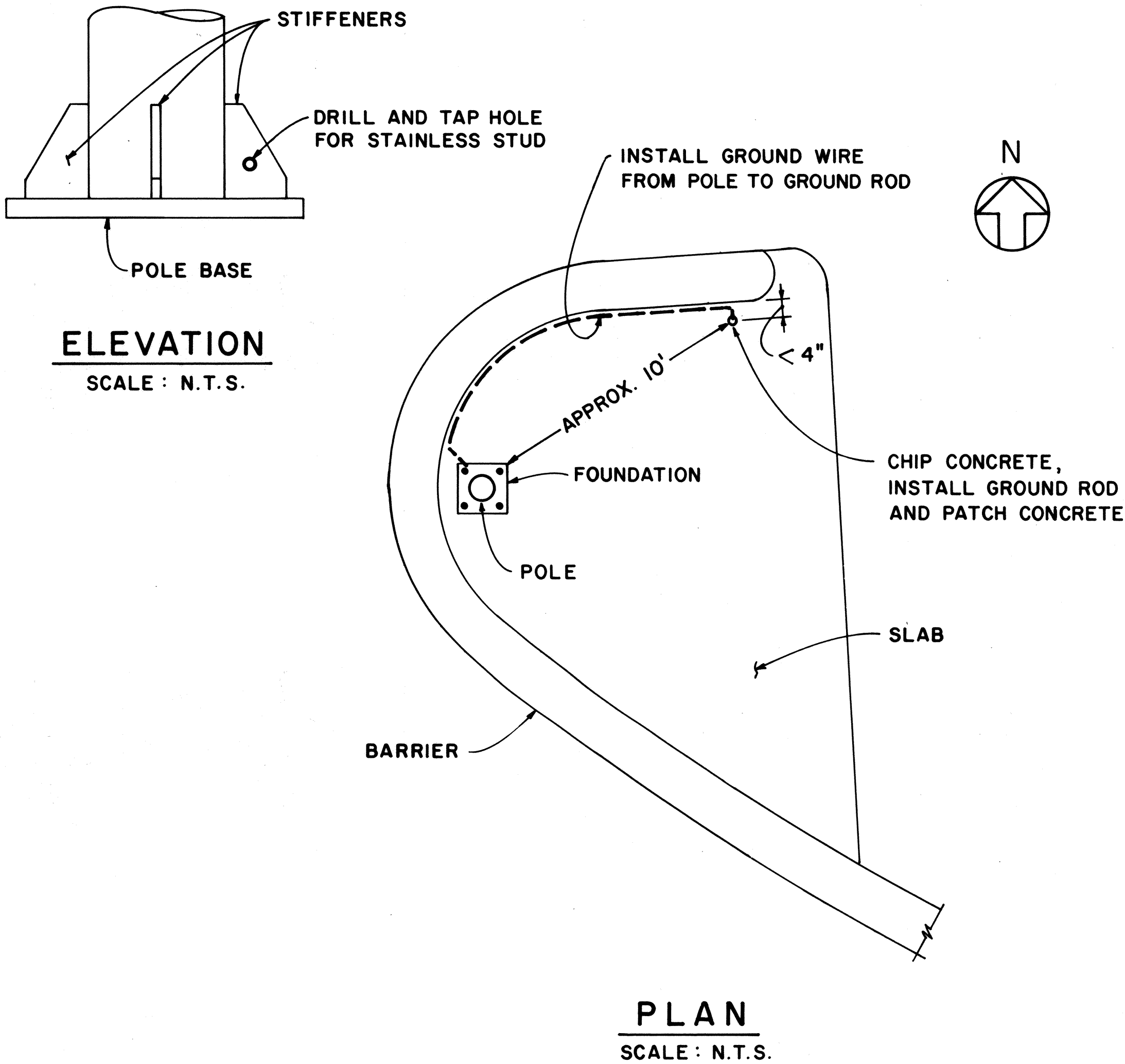
SCALE: 3/8" = 1'-0" DATE: JUN 1995

SHEET NO. 7E6 OF 6 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	MAY 95
DESIGNED BY	MAY 95
QUANTITIES BY	MAY 95
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(75) UNIT III	1994	301 S-1	353



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Keene Matsuda

10/13/95	ADDENDUM 1
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION FLAG POLE GROUNDING COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL/ACCESS ROADS SCALE: NONE DATE: JUN 1995 SHEET NO. 7E6A OF 6 SHEETS	

ORIGINAL PLAN	DATE
DESIGNED BY	OCT 95
QUANTITIES BY	SEP 95
CHECKED BY	OCT 95
NO.	

SYSTEM: 208Y/120V 3Ø, 4W PANEL - OBGLP

MAINS: 125AT/250AP

SHORT CIRCUIT RATING: 10 KAIC

PANEL LOCATION: SHOP AREA, LEVEL A, HAIKU OB

SUPPLY LOCATION: PANEL OBGHP, SHOP AREA, LEVEL A, HAIKU OB

SERVICE	CKT. NO.	LOAD KVA			CIRCUIT BREAKER		WIRE AWG	A	B	C	WIRE AWG	CIRCUIT BREAKER	LOAD KVA			CKT. NO.	SERVICE	
		A	B	C	FRAME	POLES							TRIP	A	B			C
RECEPTACLE	1	1.50			100	1	20	#12				#12	20	2	100		0.92	2 PEDESTAL
RECEPTACLE	3		0.72		100	1	20	#12				#12	20	2	100		0.92	4 GRINDER
SINK AERATOR	5			1.00	100	1	20	#12				#12	20	2	100		1.15	6 BELT/DISK
MW OVEN	7	1.20			100	1	20	#12				#12	20	2	100		1.15	8 GRIDER
RECEPTACLE	9		1.50		100	1	20	#12				#12	20	2	100		1.15	10 DRILL PRESS
RECEPTACLE	11			1.00	100	1	20	#12				#12	20	2	100		1.15	12
RECEPTACLE	13	1.18			100	1	20	#12				#10	30	1	100		1.18	14 CUT-OFF SAW
RECEPTACLE	15		1.44		100	1	20	#12				#12	20	1	100		1.13	16 PIPE THREADER
RECEPTACLE	17			1.44	100	1	20	#12				#12	20	2	100		0.06	18 ELECTRODE
RECEPTACLE	19	1.18			100	1	20	#12				#10	20	1	100		0.60	20 OVEN
RECEPTACLE	21		1.08		100	1	20	#12				#10	20	1	100		1.80	22 FUME HOOD
RECEPTACLE	23			1.00	100	1	20	#12				#8	40	1	100		3.0	24 WATER HEATER WH-4
RECEPTACLE	25	0.90			100	1	20	#12				#8	40	1	100		3.0	26 SPARE
COMPUTER	27		1.00		100	1	20	#12				#8	40	1	100		3.0	28
COMPUTER	29			1.00	100	1	20	#12				#8	40	1	100		3.0	30
COMPUTER	31	1.00			100	1	20	#12				#8	40	1	100		3.0	32
COMPUTER	33		1.00		100	1	20	#12				#8	40	1	100		3.0	34
EF-38	35			0.7	100	1	20	#12				#12	20	1	100		0.7	36 EF-18
EF-39	37	0.7			100	1	20	#12				#12	20	1	100		0.7	38 EF-42
EF-40	39		0.7		100	1	20	#12				#12	20	1	100		1.8	40 DH-1
EF-41	41			0.7	100	1	20	#12				#12	20	1	100		1.8	42 SPARE

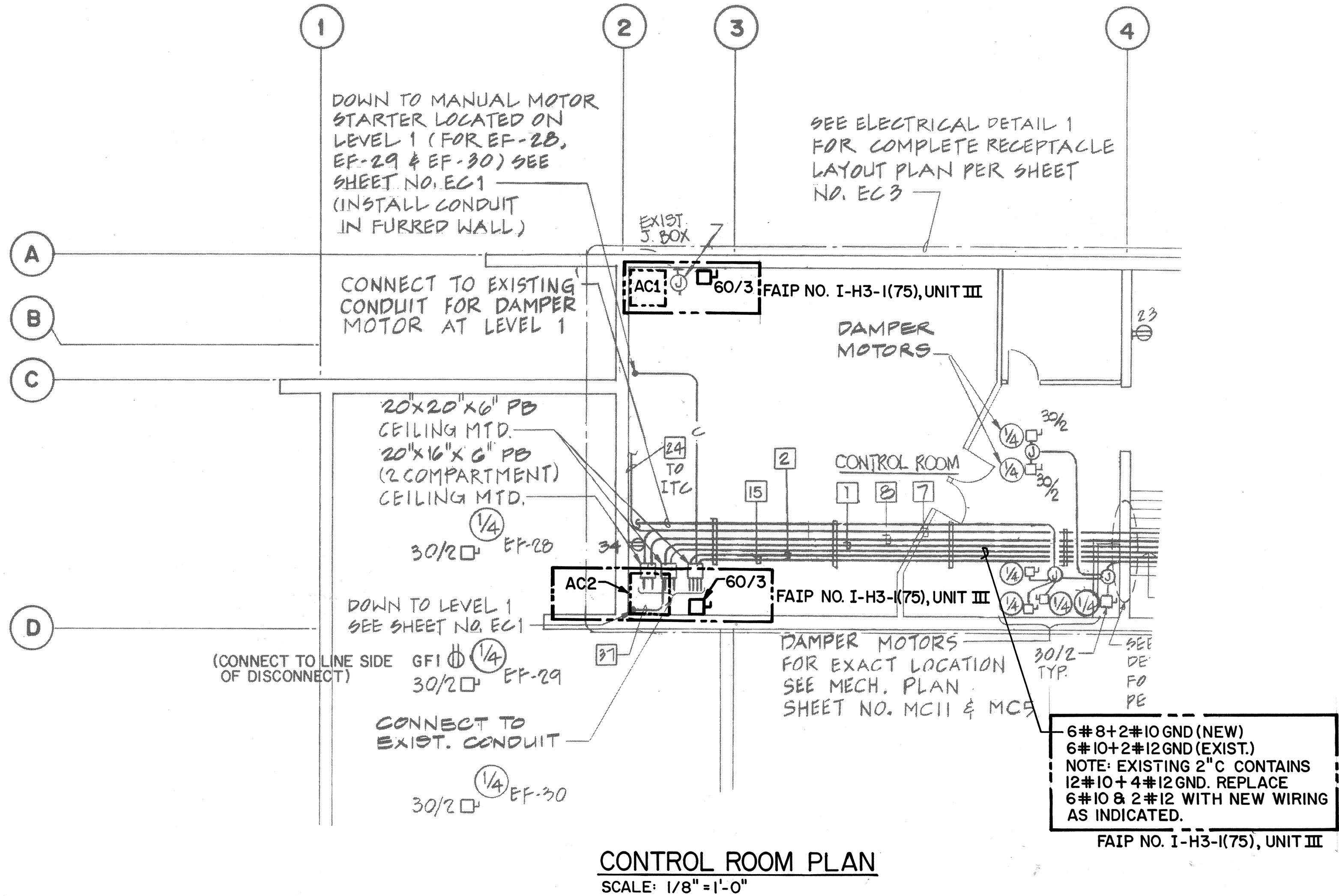
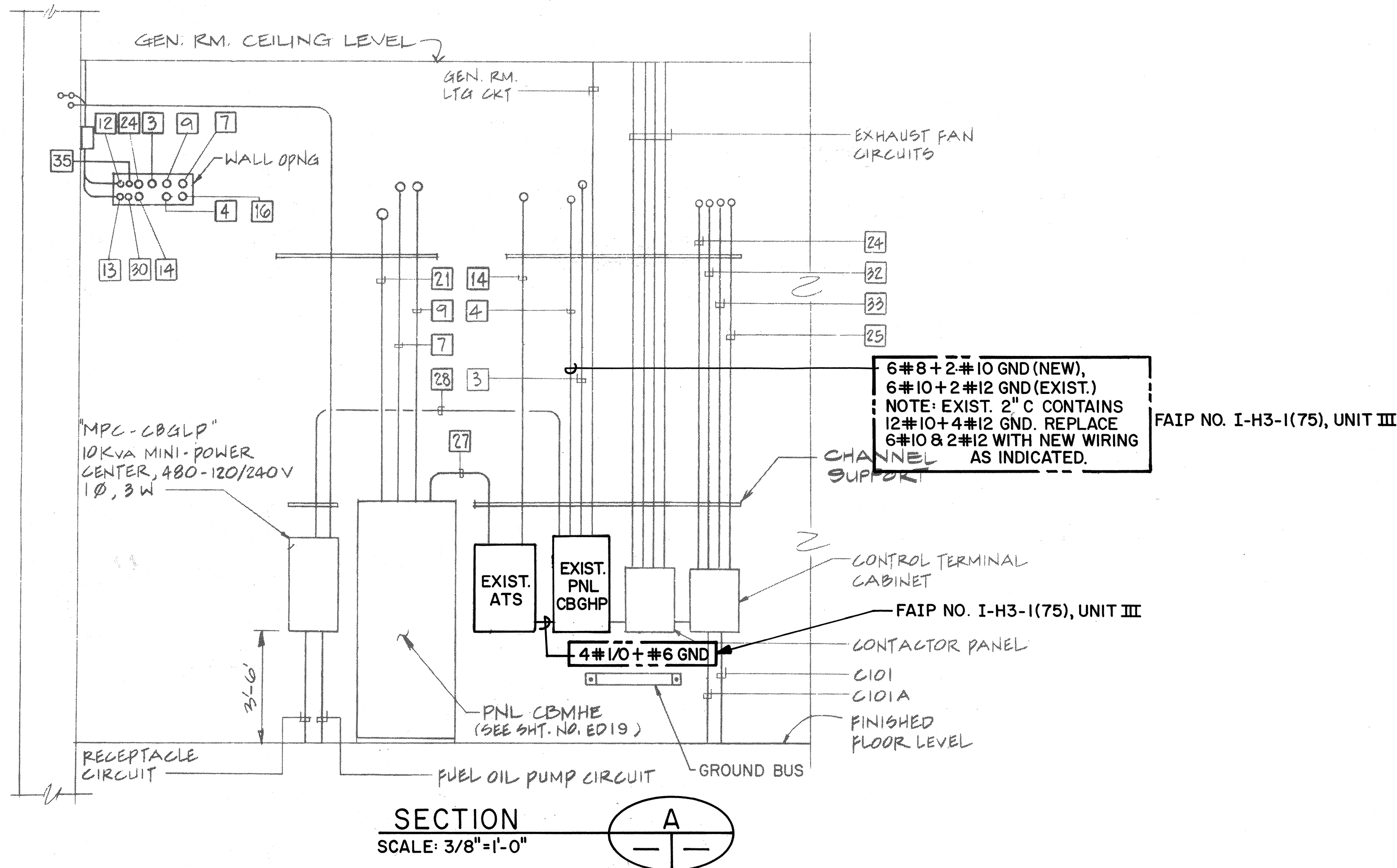
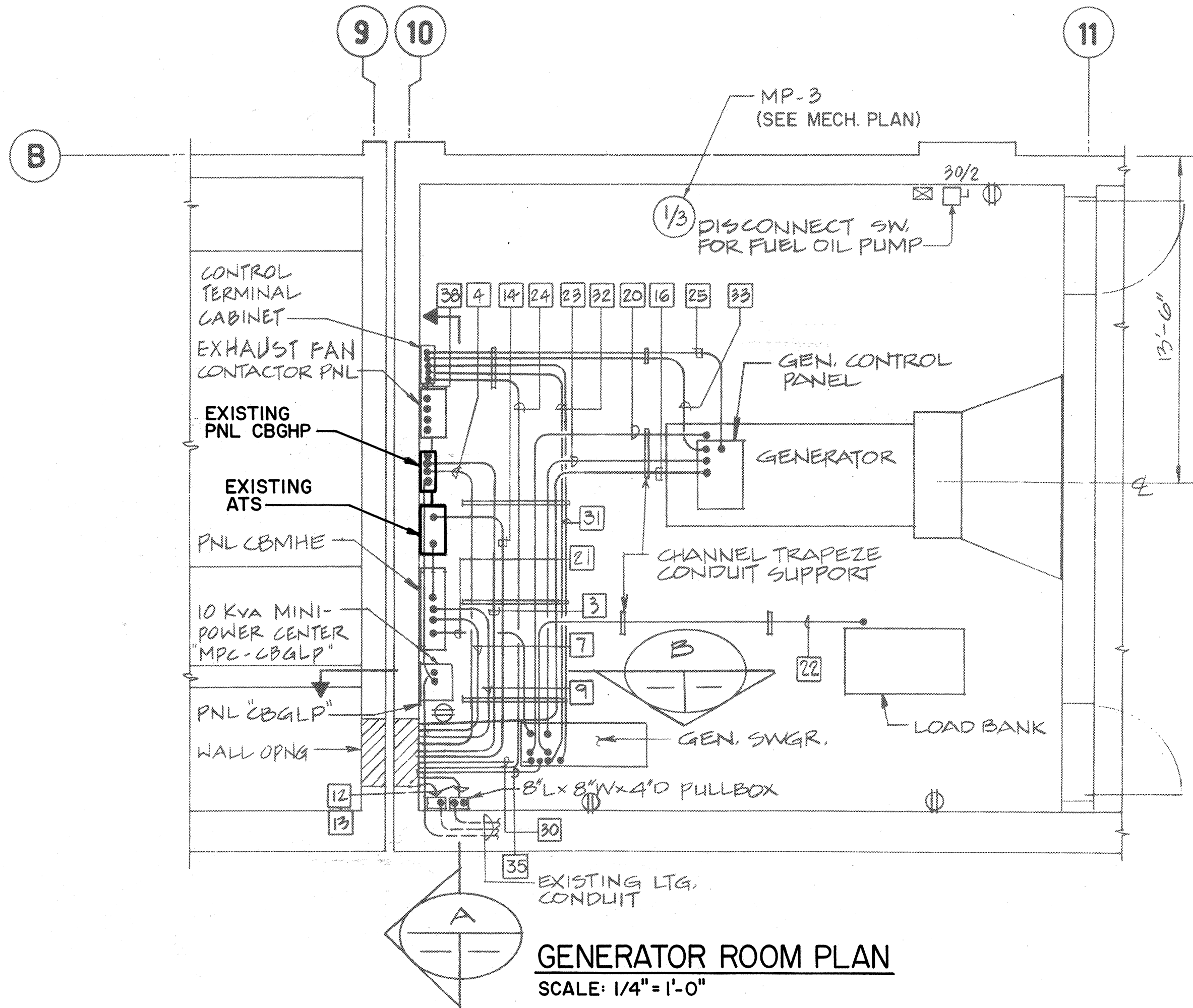
FAIP NO. I-H3-1(75), UNIT III

SYSTEM: 208Y/120V 3Ø, 4W										PANEL - IB3LP										PANEL LOCATION: ELECT. ROOM, LEVEL 3, HAIKU IB									
MAINS: 125A LUGS ONLY																				SUPPLY LOCATION: PANEL IB3HLI VIA XFMR T4-5									
SHORT CIRCUIT RATING: 10 KAIC																				ELECT. ROOM, LEVEL 3, HAIKU IB									
SERVICE	CKT. NO.	LOAD kVA			CIRCUIT BREAKER			WIRE AWG	A	B	C	WIRE AWG	CIRCUIT BREAKER	LOAD kVA			CKT. NO.	SERVICE											
		A	B	C	FRAME	POLES	TRIP							A	B	C													
LEVEL 3 & STAIR 1	1	0.90			100	1	20	#12				#12	100	1	20	0.90	2	LEVEL 4 & STAIR 3											
↓	3		1.08													1.08	4	↓											
	5			1.08													0.90	6											
LEVEL A	7	0.68														0.72	8	LEVEL 2 & STAIR 2											
↓	9		0.70													0.54	10												
	11			0.81								↓		↓	↓		0.54	12	↓										
ROOF	13	0.40										#12				2.0	14	600V SWGR											
↓	15		0.40											3	20	2.0	16	HEATER											
	17			0.40													2.0	18											
MCC HEATER	19	1.5				↓	↓	↓				#12		2	20	0.3	20	XFMR DISC.											
15kV SWGR	21		2.7				2	30	#10							0.3	22	HEATER											
HEATER	23			2.7								#10		1	40		3.0	24	WATER HEATER										
ELEV #1 LIGHTS	25	0.2				↓	1	20	#12			#10		2	20	0.9		26	DH-3										
ELEV #2 LIGHTS			0.2			↓	1	20	#12				↓			0.9		28	↓										
										</																			

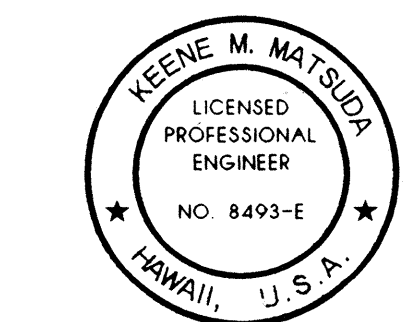
FAIP NO. I-H3-1(75), UNIT III

SYSTEM: 208Y/120V 3Ø, 4W										PANEL - 0B3LP										PANEL LOCATION: ELECT. ROOM, LEVEL 3, HAIKU OB									
MAINS: 125 A LUGS ONLY																				SUPPLY LOCATION: PANEL 0B3HLI VIA XFMR T4-6									
SHORT CIRCUIT RATING: 10 KAIC																				ELECT. ROOM, LEVEL 3, HAIKU OB									
SERVICE	CKT. NO.	LOAD KVA			CIRCUIT BREAKER			WIRE AWG	A	B	C	WIRE AWG	CIRCUIT BREAKER			LOAD KVA			CKT. NO.	SERVICE									
		A	B	C	FRAME	POLES	TRIP						FRAME	POLES	TRIP	A	B	C											
LEVEL 3	1	1.21			100	1	20	#12				#12	100	1	20	0.72			2	LEVEL 4									
STAIR 1	3		0.90														1.10		4	STAIR 3									
	5			0.90														0.90	6										
LEVEL A	7	1.30														0.72			8	LEVEL 2									
ROOF LEVEL	9		1.44													0.72			10	STAIR 2									
	11			1.33													0.72		12										
XFMR	13	0.3				2	20	#12				#12		3	20	3.0			14	600V SWGR									
DISC. HEATER	15		0.3													3.0			16	HEATER									
MCC HEATER	17			1.0		1	20	#12									3.0		18										
SPARE	19					1	20					#10		2	20	0.9			20	DH-2									
ELEV.#1LIGHTS	21		0.2			1	20	#12								0.9			22										
ELEV.#2LIGHTS	23			0.2		1	20	#12							1	20			24	SPARE									

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-I(75) UNIT III	1994	301 S-3	353



DATE	_____
SURVEY PLATTED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
DESIGNED BY	_____
CHECKED BY	_____



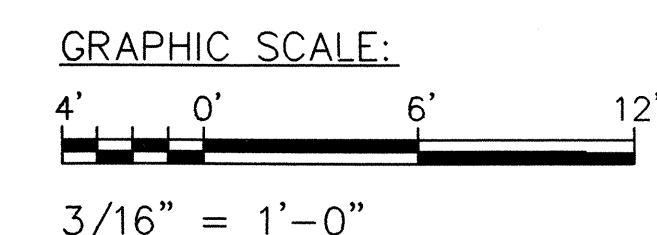
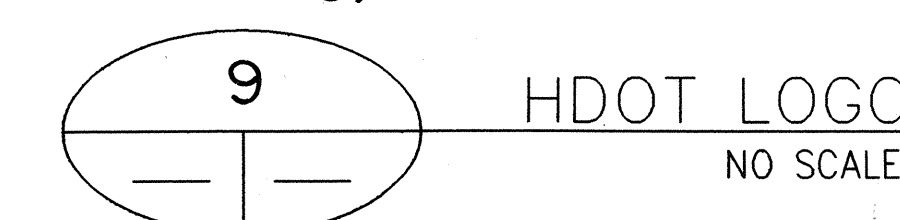
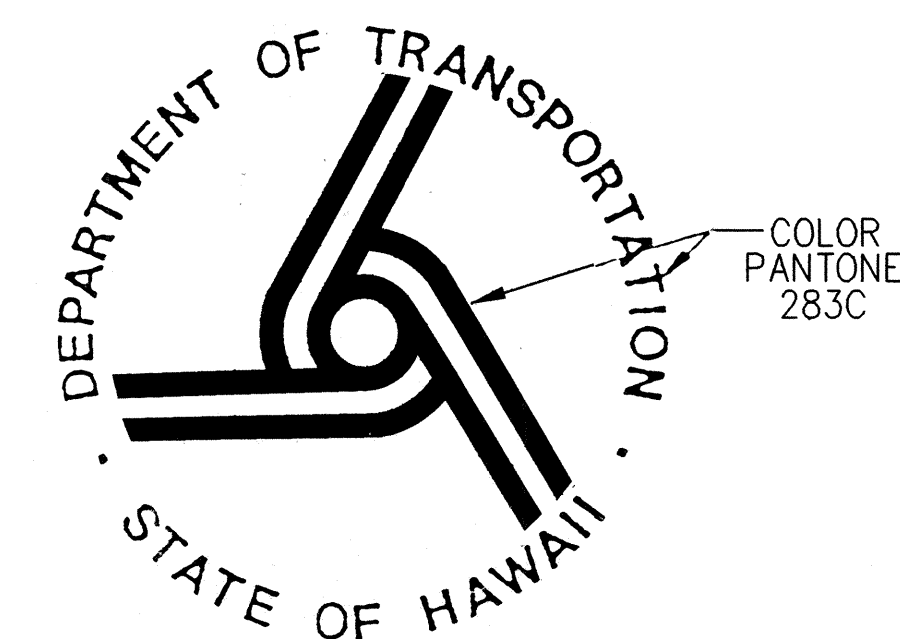
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Keene Matsuda

9/24/97	DCN75-021: SHEET ADDED
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION CONTROL BUILDING PLANS AND SECTION COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-I(75), UNIT III T.K. TUNNEL/ACCESS ROADS SCALE: AS NOTED DATE: SEP 1997 SHEET NO. 7E6C OF 6 SHEETS	

Diagram illustrating the locations for fire-rated glazing on a door. The door is 5'-0" high and 4'-0" wide. The locations are marked as follows:

- LOCATION 1: Top center of the door.
- LOCATION 2: Top left corner of the door.
- LOCATION 3: Top right corner of the door, 1'-2" from the right edge.
- LOCATION 4: Bottom center of the door.



DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

IDENTIFYING DEVICES-I

COMMON WORK

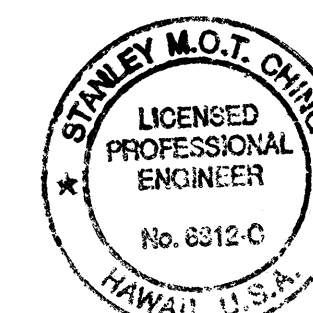
H-3 FINISH (UNIT III)

FAIP NO. I-H3-1(75), UNIT III

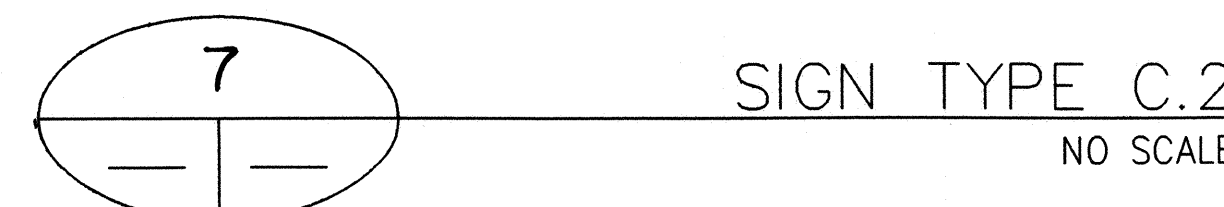
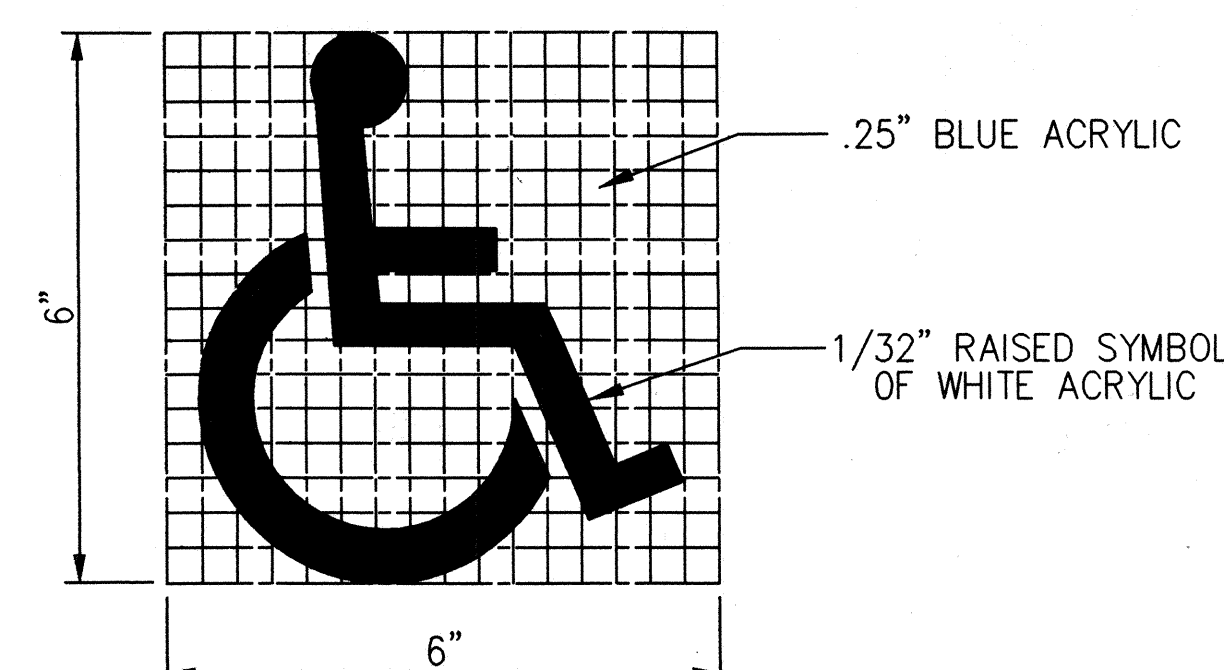
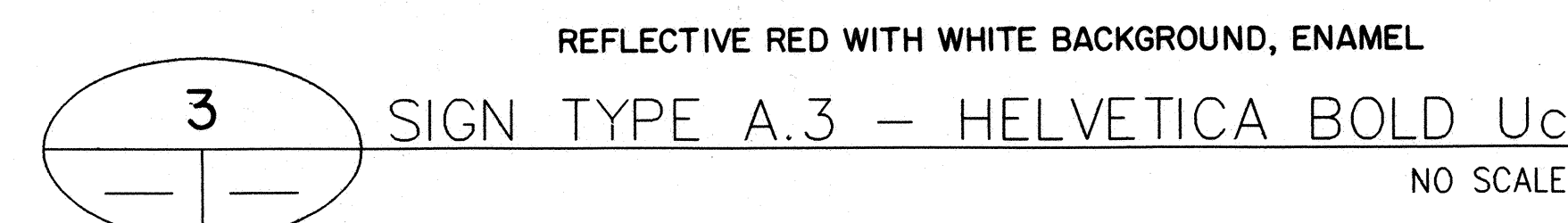
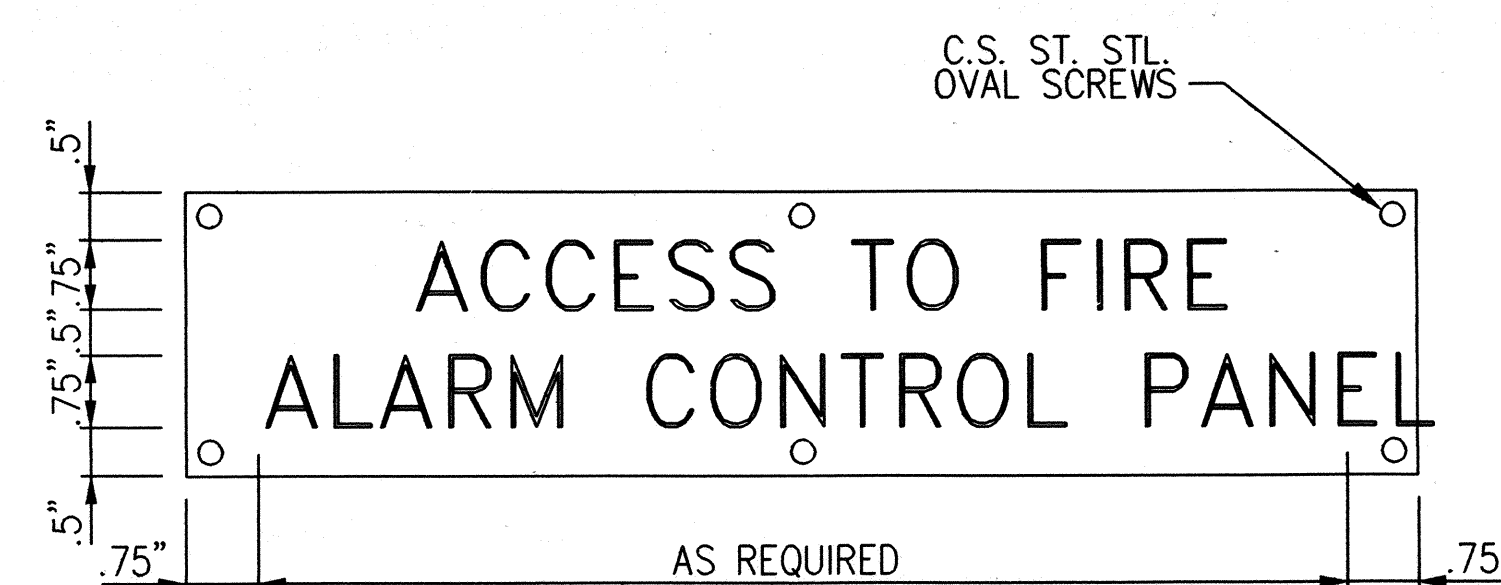
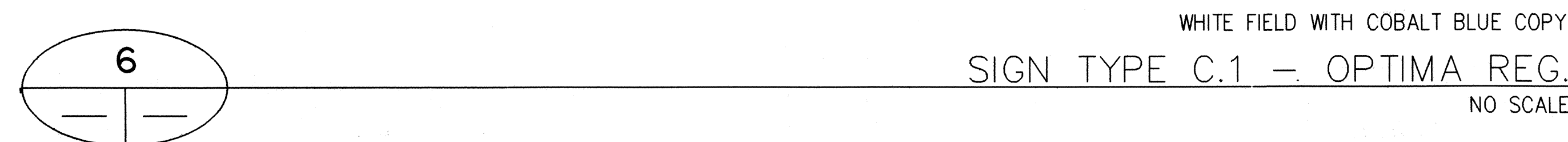
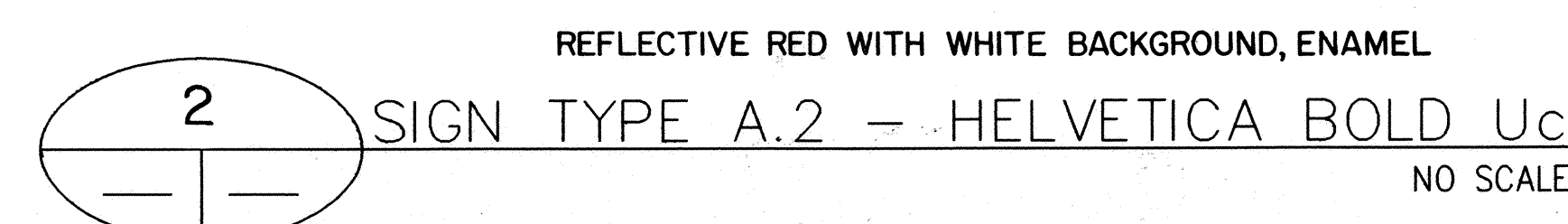
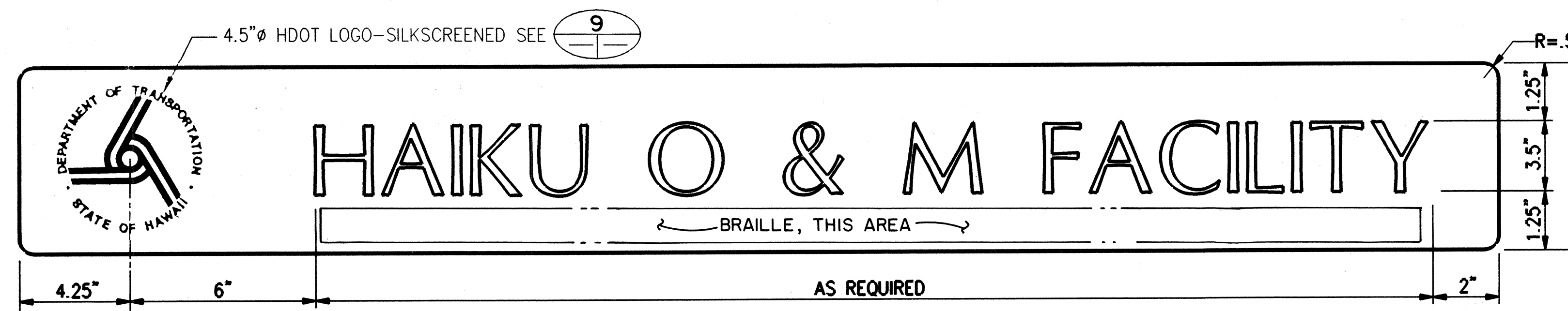
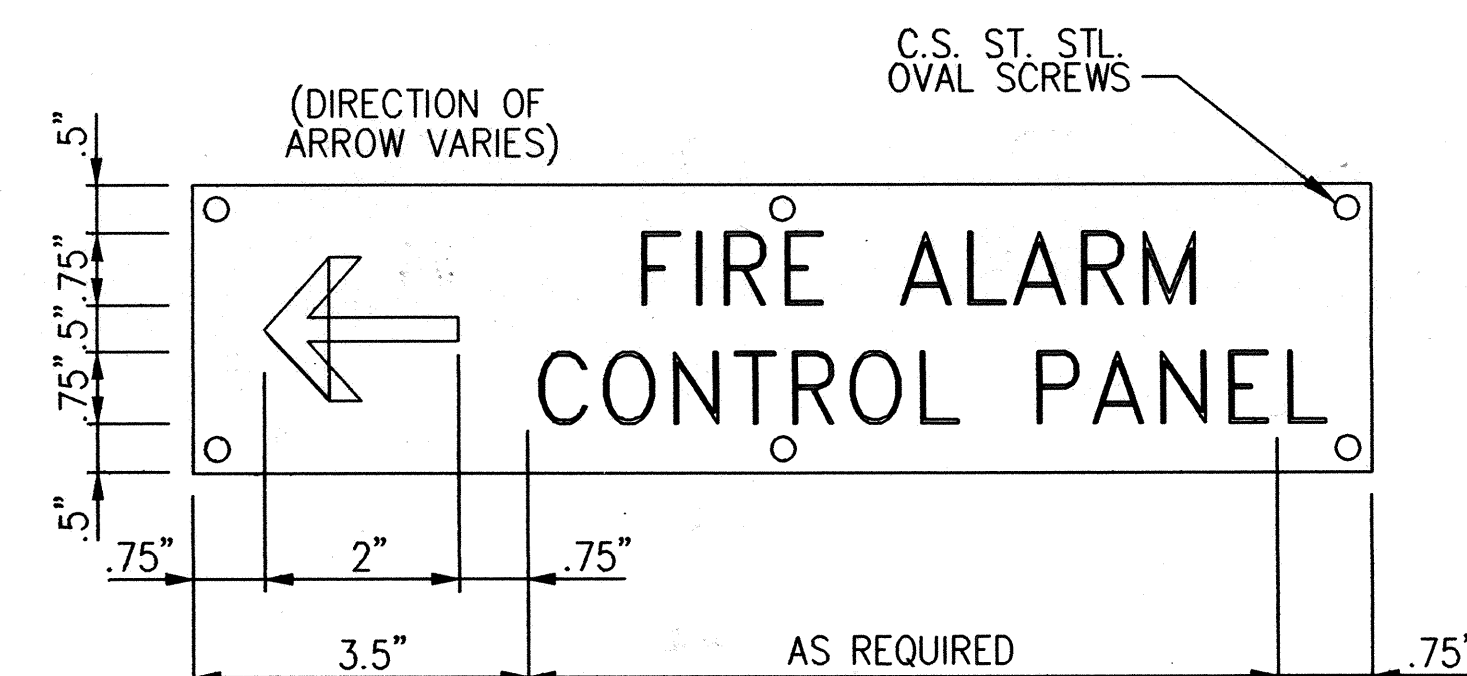
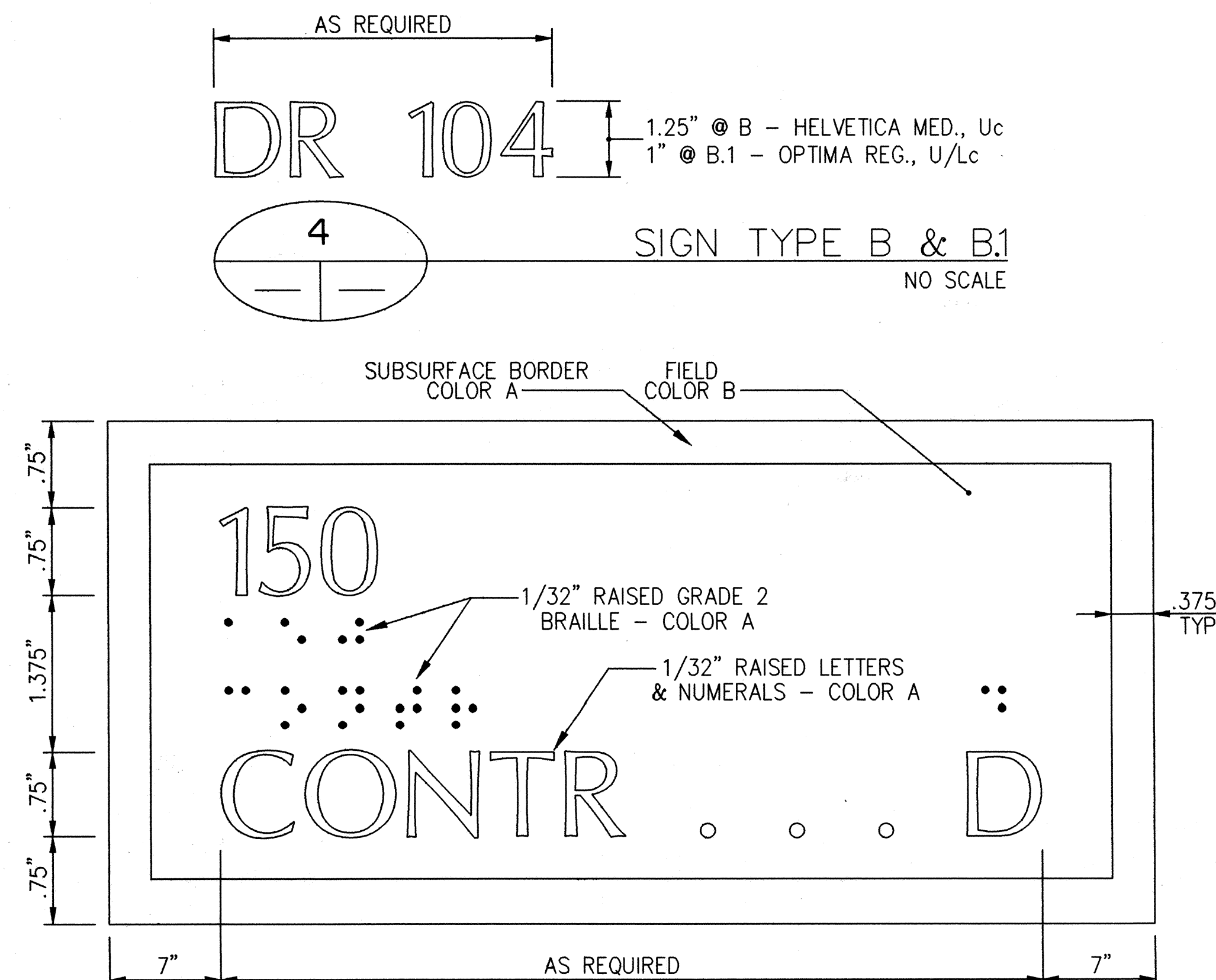
T.K. TUNNEL/ACCESS ROADS

SCALE: AS NOTED
DATE: JUN 1995

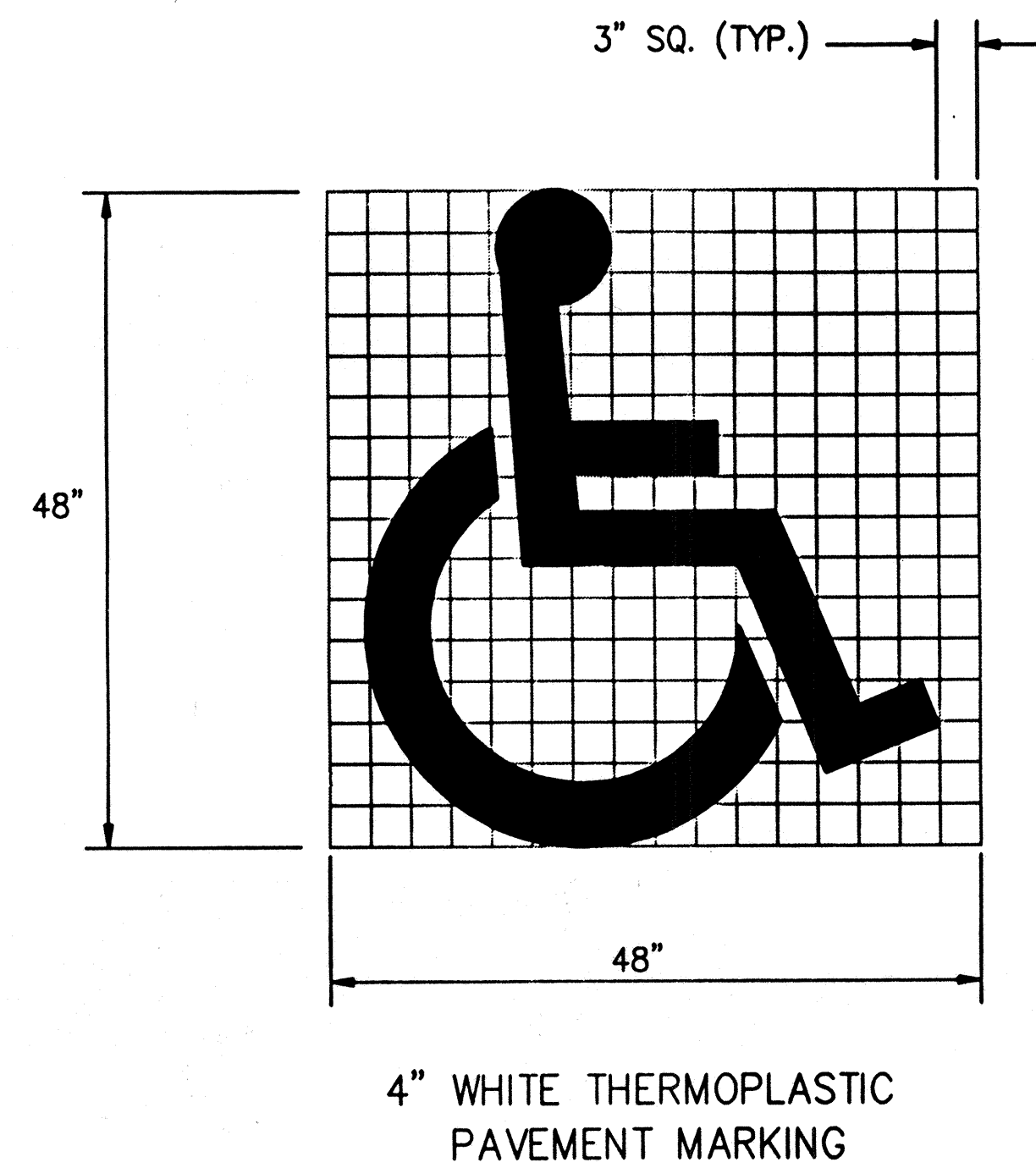
SHEET NO. **713** OF **4** SHEETS



THIS WORK WAS PREPARED BY M
OR UNDER MY SUPERVISION
Stanley M O T Chy



ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
	DRAWN BY _____	_____
	TRACED BY _____	_____
NOTEBOOK	DESIGNED BY _____	_____
	QUANTITIES BY _____	_____
	CHECKED BY _____	_____



HANDICAP PAVEMENT MARKING

10

3C4 7T4

5C30 6C11



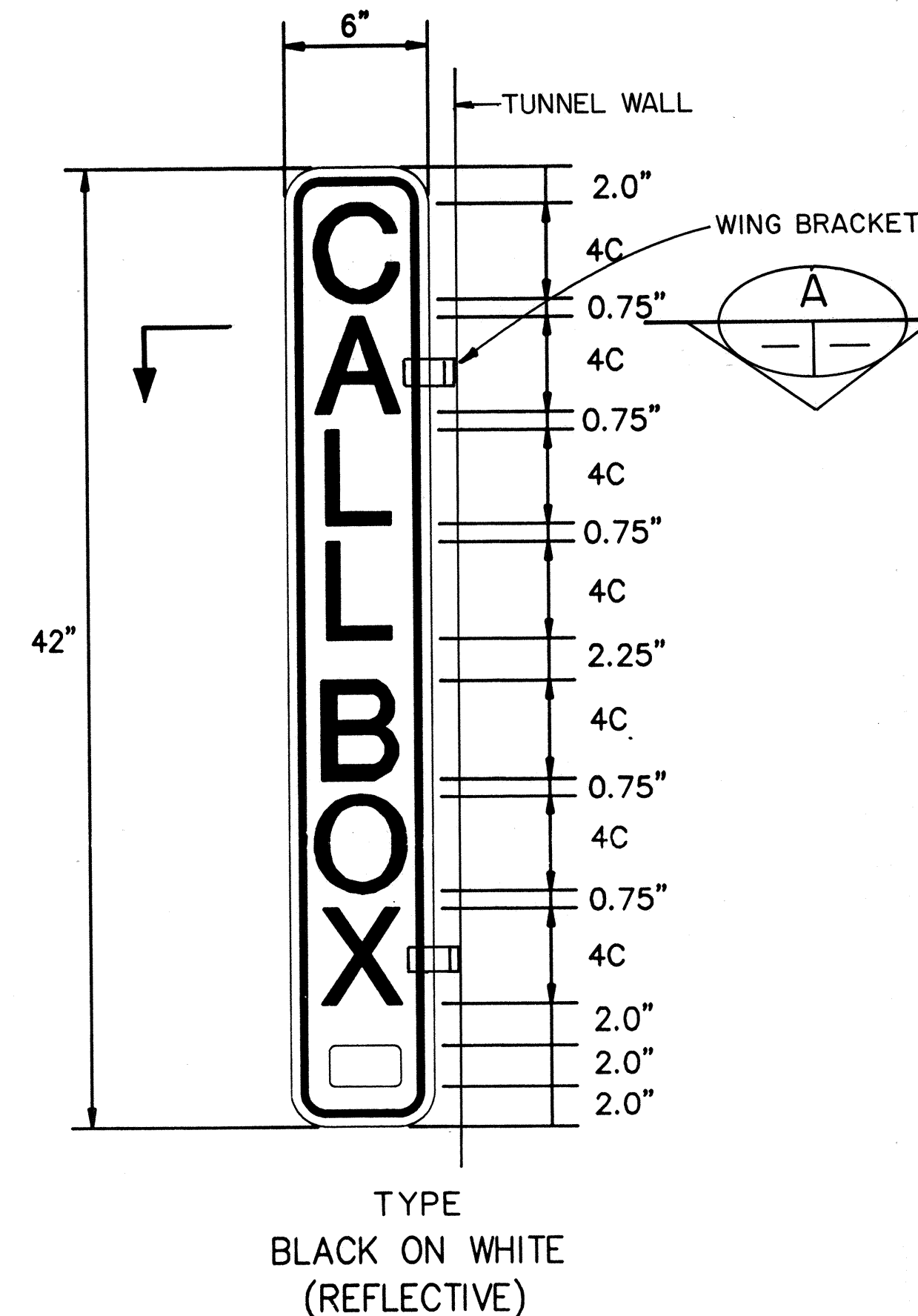
HANDICAP PARKING SIGN

14

3C4 7T4

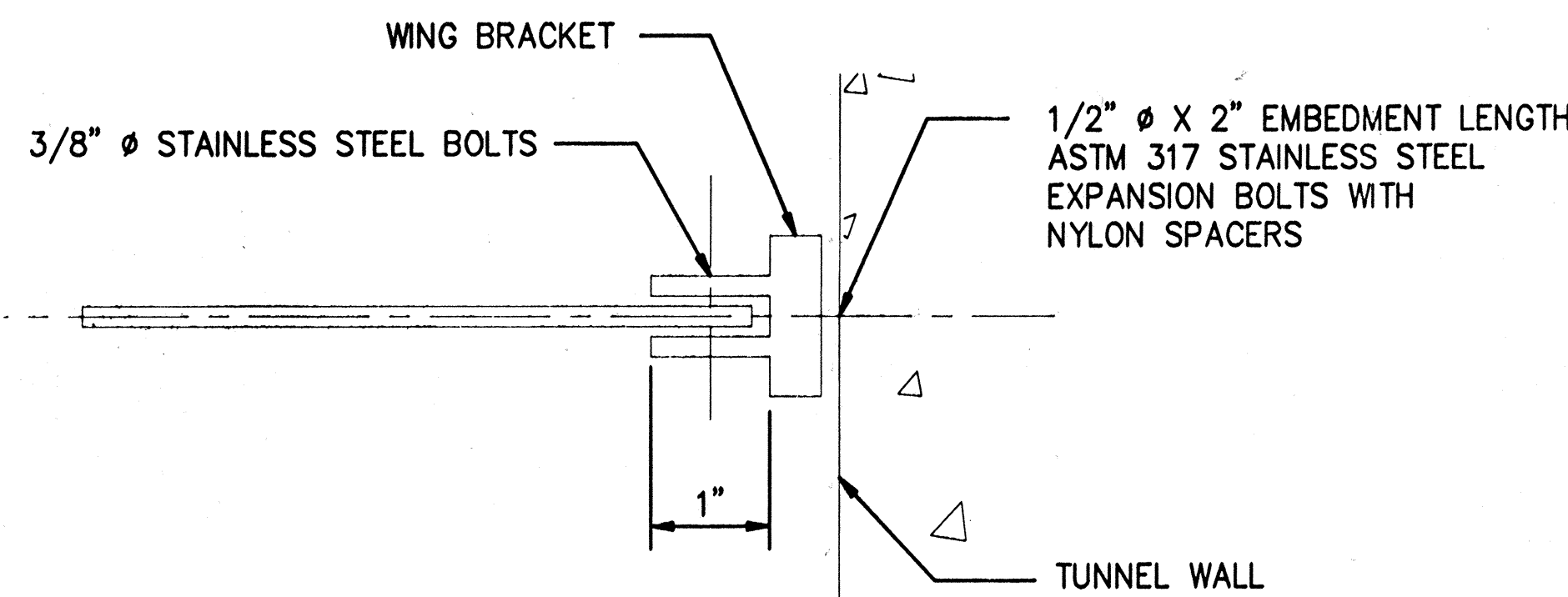
5C30 6C11

LEGEND — GREEN (REFL.)
SYMBOL — BLUE (REFL.)
BACKGROUND — WHITE (REFL.)



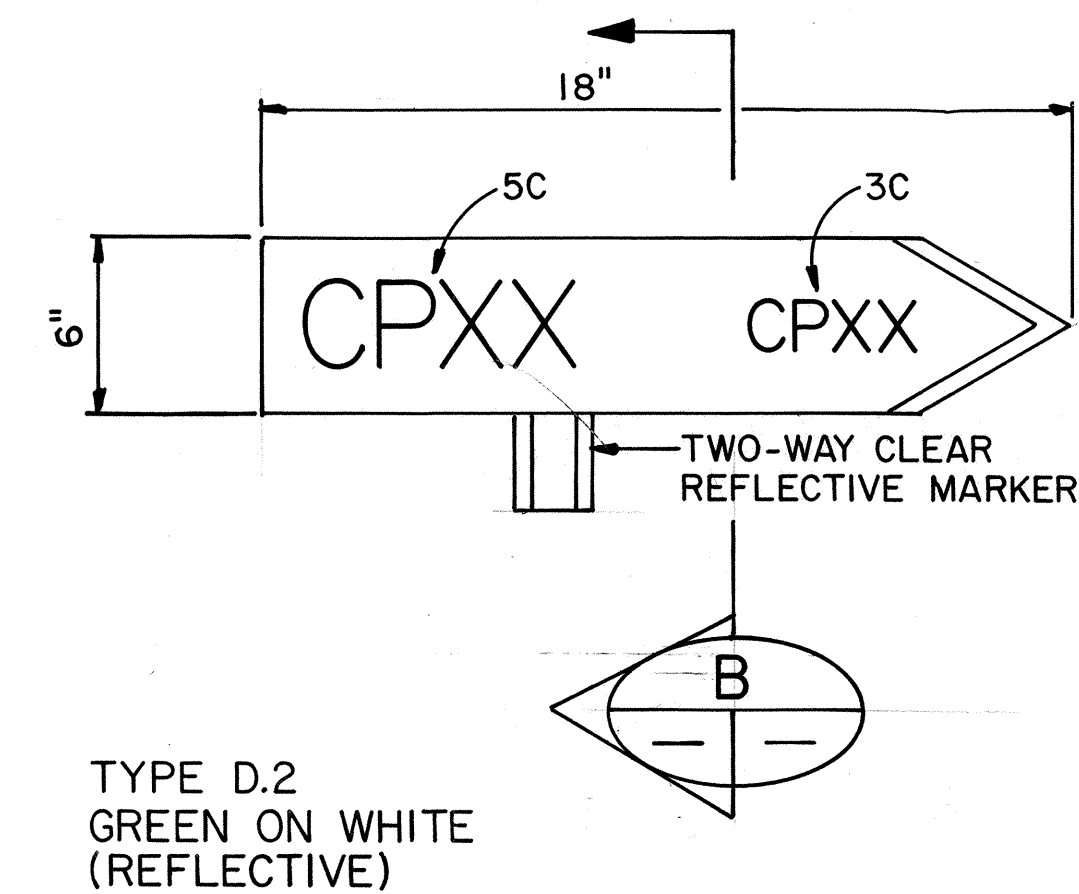
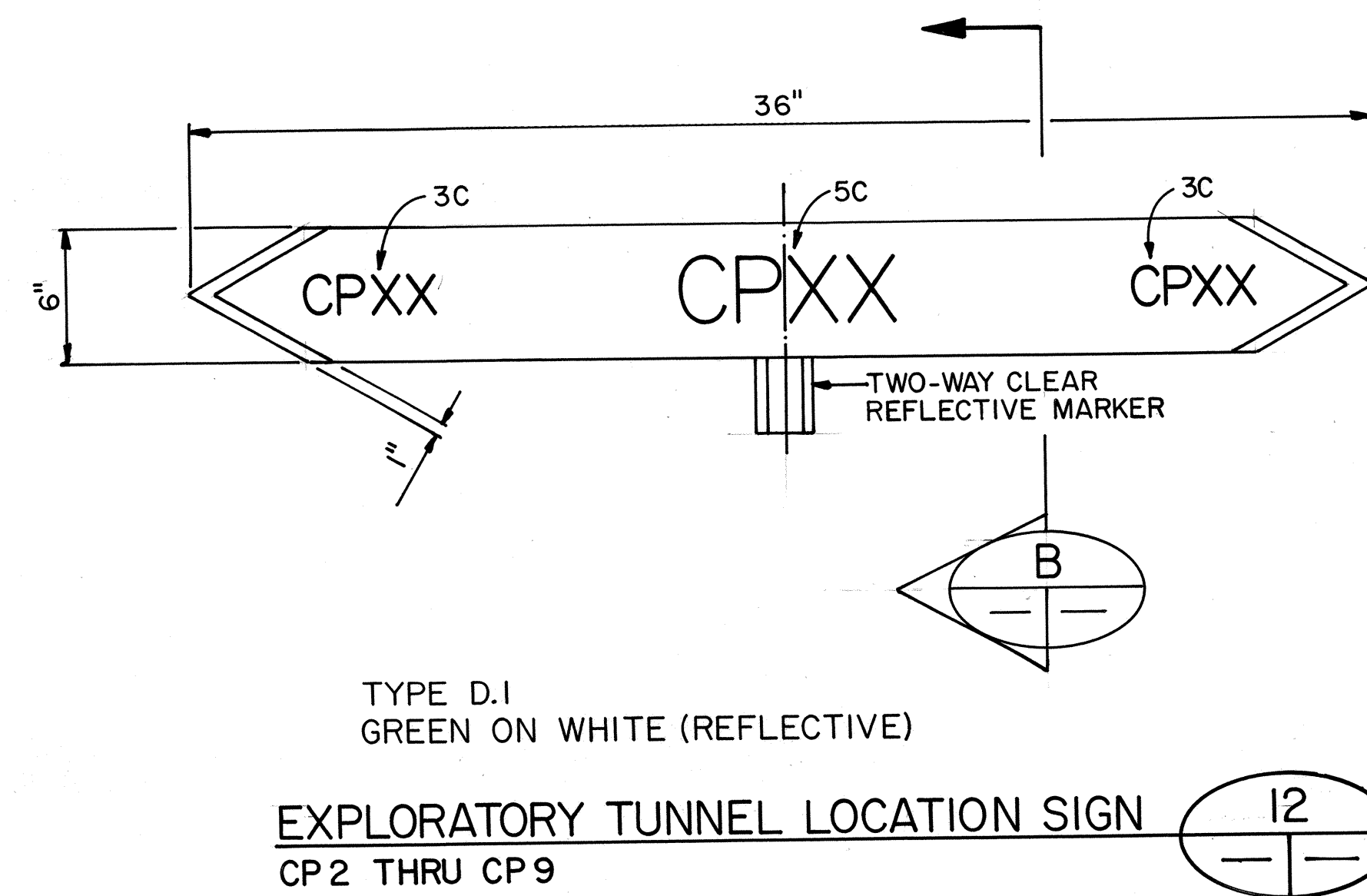
CALLBOX SIGN

11



TUNNEL WALL MOUNTING SECTION

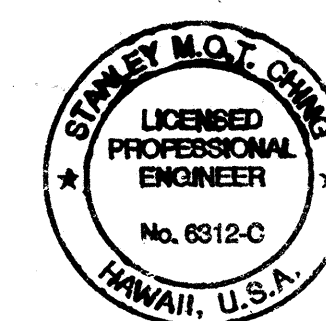
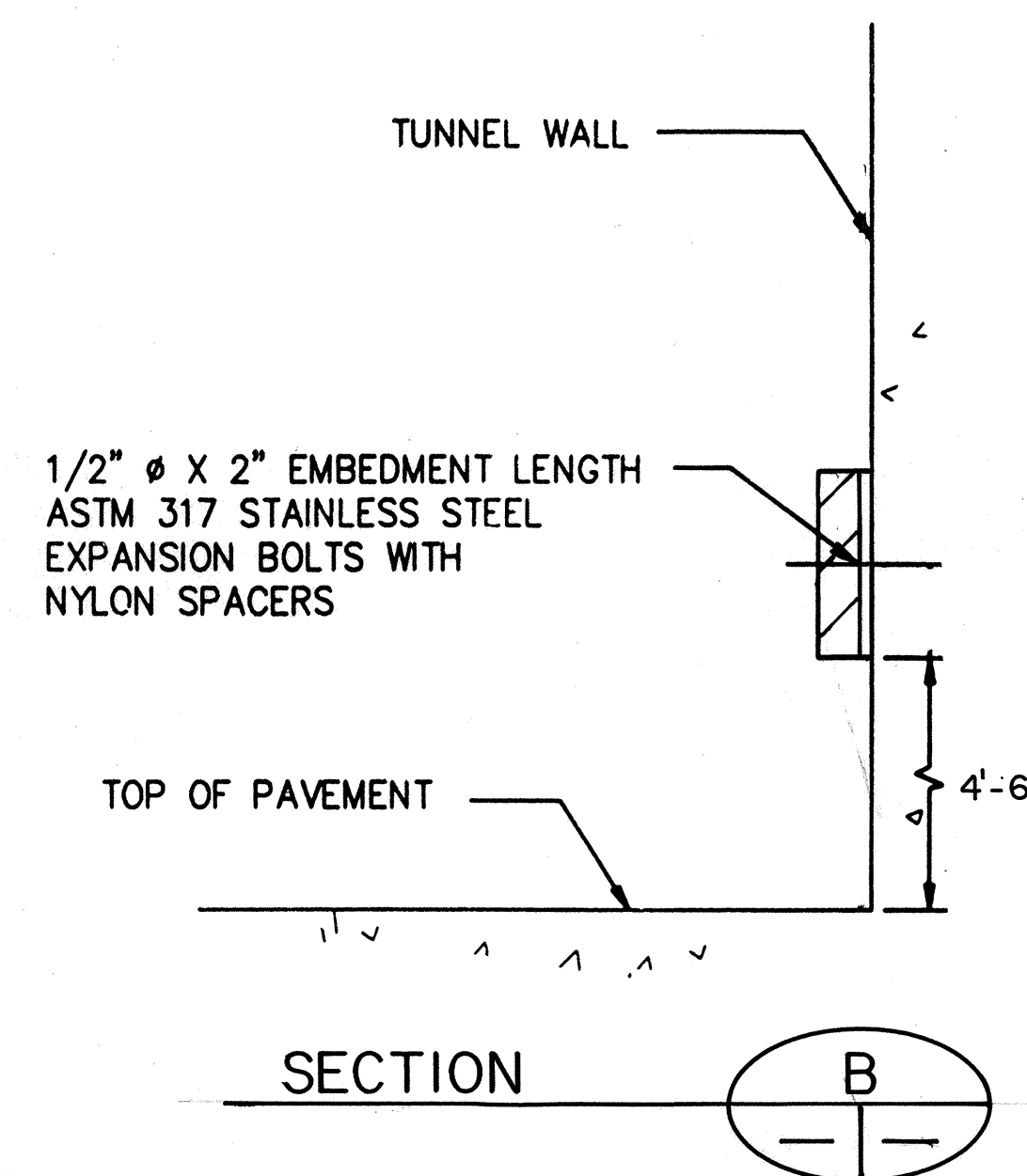
A



EXPLORATORY TUNNEL LOCATION SIGN

13

CP1
CP10 (OPP. HAND)

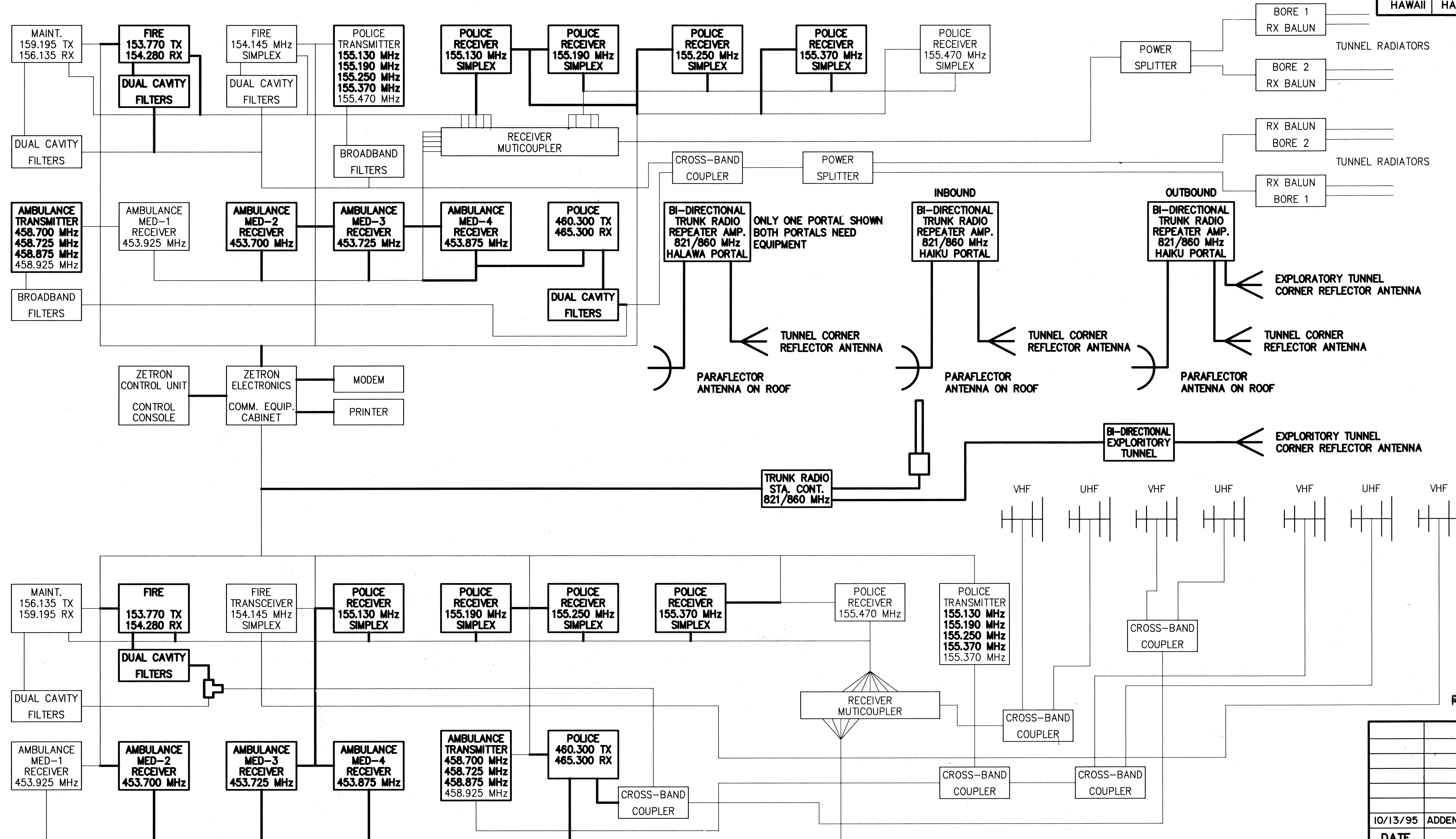


THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Stanley M.O.T. Ching

10/13/95	ADDENDUM 1
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
IDENTIFYING DEVICES-2	
COMMON WORK	
H-3 FINISH (UNIT III)	
FAIP NO. I-H3-1(75), UNIT III	
T.K. TUNNEL/ACCESS ROADS	
SCALE: NONE	DATE: JUN 1995
SHEET NO. 7T4 OF 4 SHEETS	

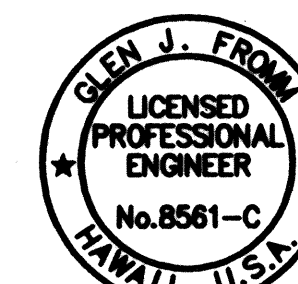
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(75) UNIT III	1994	305 S-1	353



FOR DETAIL AS-BUILT INFORMATION
REFER TO CONSTRUCTION SUBMITTALS

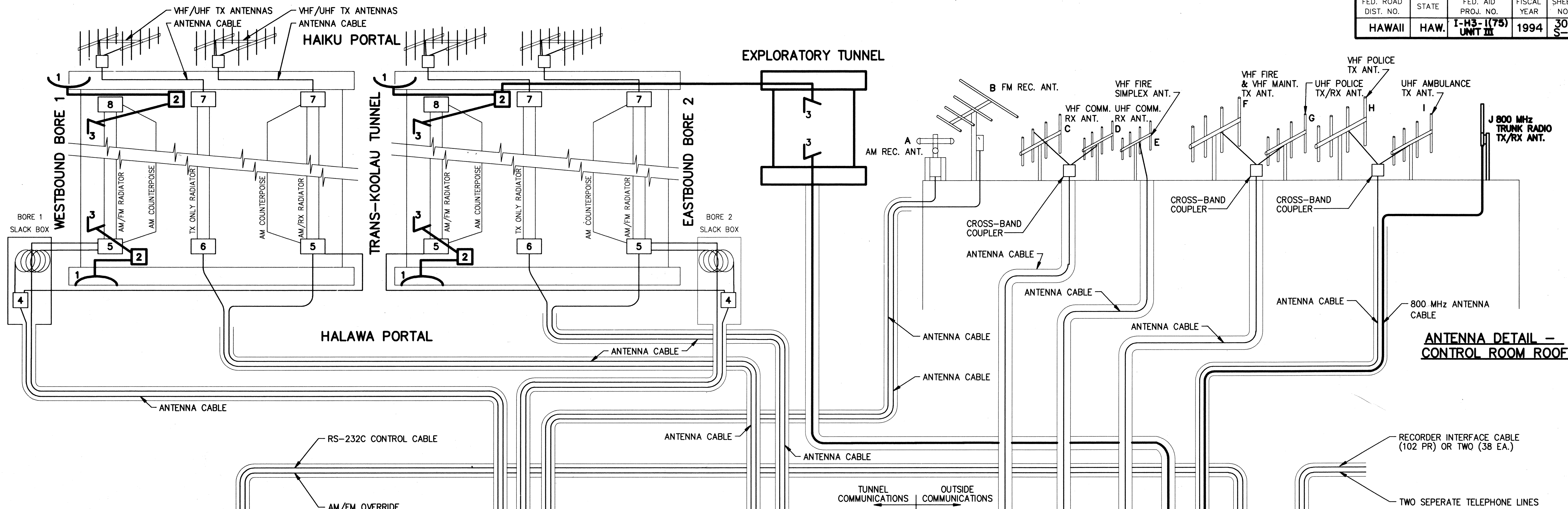
NOTE:

- HIGHLIGHTED ITEMS (BOLD LINETYPE) TO BE PROVIDED BY CONTRACTOR, ALL OTHER ITEMS ARE EXISTING.

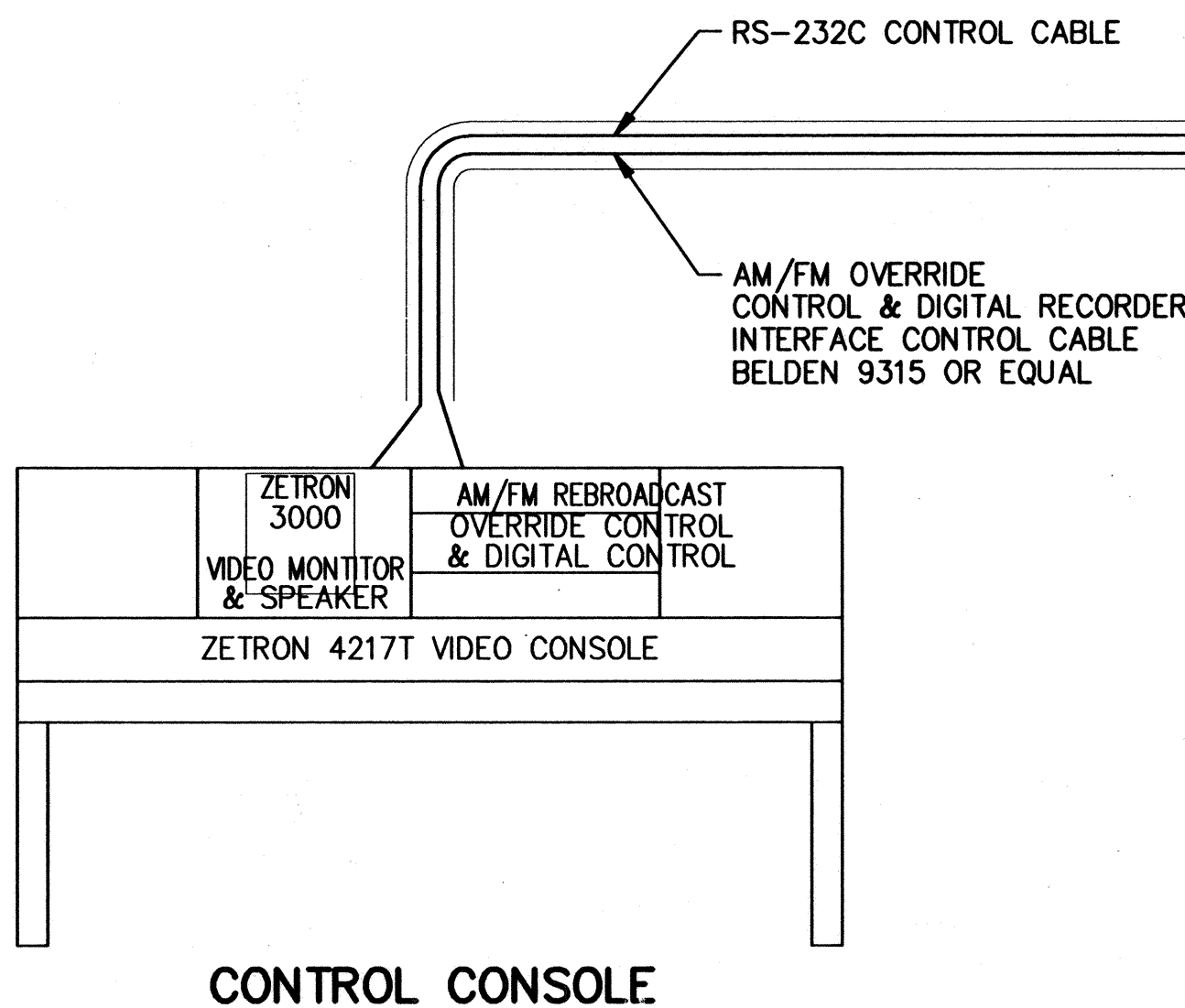


THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

10/13/95	ADDENDUM I
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION BLOCK DIAGRAM RADIO EQUIPMENT COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL / ACCESS ROADS SCALE: 1" = 20'-0" DATE: OCT 1995 SHEET NO. 7T4A OF 4 SHEETS	



ANTENNA DETAIL -
CONTROL ROOM ROOF



TUNNEL EQUIPMENT IDENTIFICATION

1. PARAFLECTOR 800 MHz ANT. (4 REQ'D)
2. BI-DIRECTIONAL 800 MHz AMPLIFIER. (4 REQ'D)
3. CORNER REFLECTOR ANTS. (4 REQ'D)

ANTENNA IDENTIFICATION

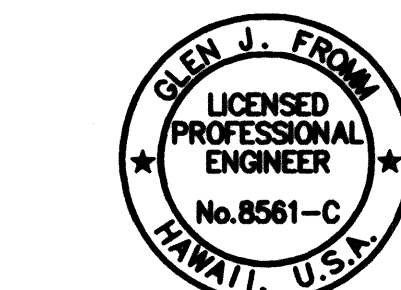
J 800 MHz TRUNK RADIO ANT.

NOTE:

1. HIGHLIGHTED ITEMS (BOLD LINETYPE) TO BE PROVIDED BY CONTRACTOR, ALL OTHER ITEMS ARE EXISTING.

CTI MARK III FM REBROADCAST	VHF FIRE DUPLEX	ELECTRONICALLY TUNED TRANSMITTER VHF POLICE	VHF MAINT. DUPLEX	VHF MULTICOUPLER	ELECTRONICALLY TUNED TRANSMITTER UHF AMBULANCE	UHF POLICE DUPLEX	VHF MAINT. DUPLEX	ELECTRONICALLY TUNED TRANSMITTER VHF POLICE	ELECTRONICALLY TUNED TRANSMITTER UHF AMBULANCE	UHF POLICE DUPLEX		ZETRON 4004	RECORDER PUNCHDOWN BLOCK
	153.770 TX 154.280 RX	155.130 MHz 155.190 MHz 155.250 MHz 155.370 MHz 155.470 MHz	159.195 MHz 156.135 MHz	VHF/UHF MULTICOUPLER	458.700 MHz 458.725 MHz 458.875 MHz 458.925 MHz	460.300 TX 465.300 RX	156.135 TX 159.195 RX	155.130 MHz 155.190 MHz 155.250 MHz 155.370 MHz 155.470 MHz	458.700 MHz 458.725 MHz 458.875 MHz 458.925 MHz	460.300 TX 465.300 RX	TRUNK COMMUNICATION 800 MHz	CONTROL UNIT	50 PR PUNCHDOWN BLOCKS REQUIRED
	VHF FIRE SIMPLEX 154.145 MHz	VHF RECEIVER 155.130 MHz		DUAL CAVITY FILTERS	UHF RECEIVER MED-1 453.925 MHz			VHF RECEIVER 155.130 MHz	RECEIVER UHF AMBULANCE MED-1 453.925 MHz		BI-DIRECTIONAL 800 MHz AMPLIFIER	ZETRON 300A	TELEPHONE MODEM
CTI MARK III AM REBROADCAST		VHF RECEIVER 155.190 MHz		DUAL CAVITY FILTERS	UHF RECEIVER MED-2 453.700 MHz		154.280 TX 153.770 RX	VHF RECEIVER 155.190 MHz	RECEIVER UHF AMBULANCE MED-2 453.700 MHz			PRINTER	
		VHF RECEIVER 155.250 MHz		BROADBAND FILTER	UHF RECEIVER MED-3 453.725 MHz		VHF FIRE SIMPLEX 154.145 MHz	VHF RECEIVER 155.250 MHz	RECEIVER UHF AMBULANCE MED-3 453.725 MHz				
		VHF RECEIVER 155.370 MHz			UHF RECEIVER MED-4 453.875 MHz			VHF RECEIVER 155.370 MHz	RECEIVER UHF AMBULANCE MED-4 453.875 MHz				
		VHF RECEIVER 155.470 MHz		RECEIVER MULTICOUPLER				VHF RECEIVER 155.470 MHz					

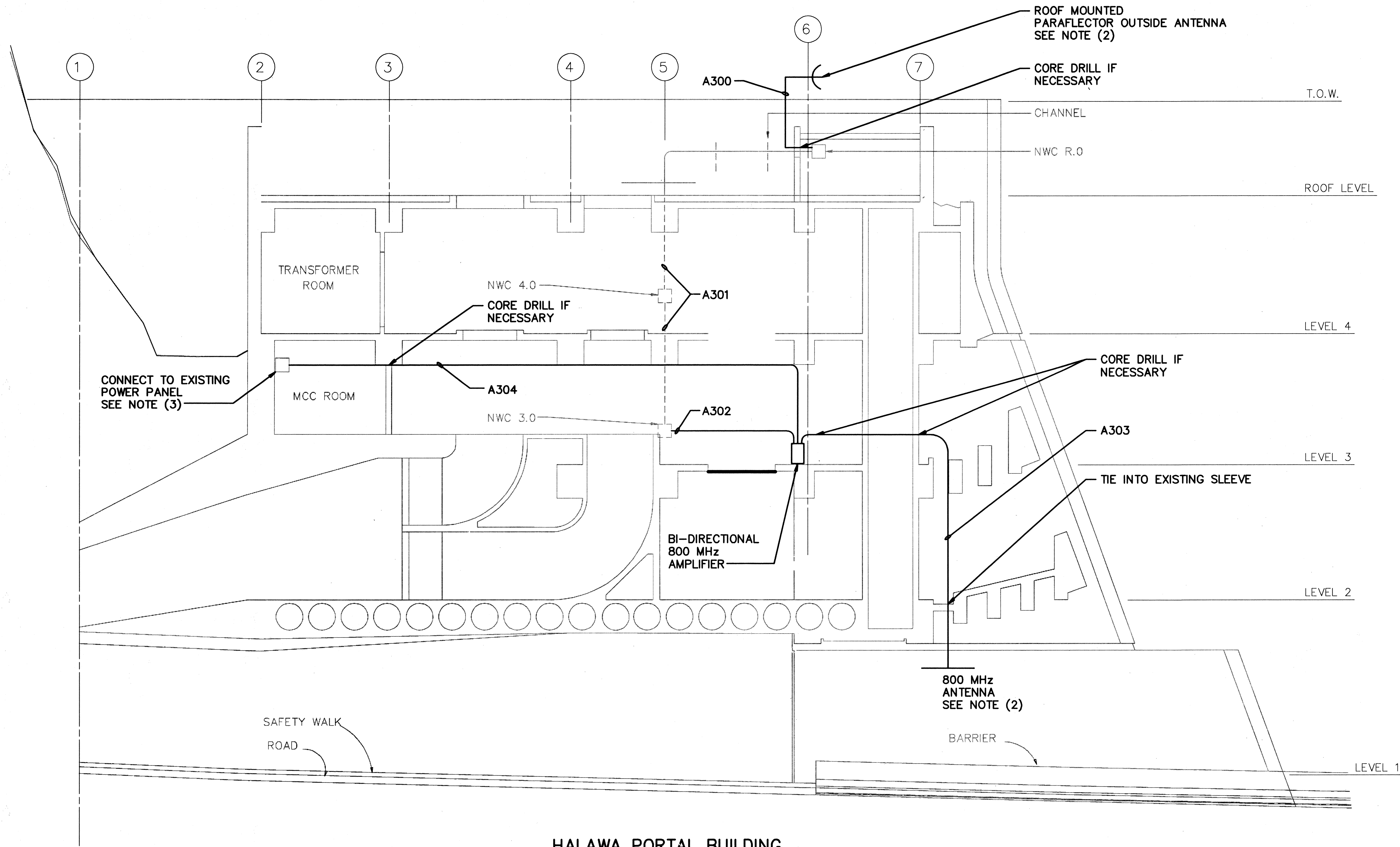
DETAIL - COMMUNICATION AND REBROADCAST ENCLOSURES



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

10/13/95	ADDENDUM I
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
RADIO EQUIPMENT LAYOUT CONTROL CENTER	
HAIKU APPROACH	
INTERSTATE ROUTE H-3	
F.A.I. PROJ. NO. 1-H3-1(75)	
SCALE: 1" = 20'-0"	DATE: OCT 1995
SHEET NO. 7T4B OF 4 SHEETS	

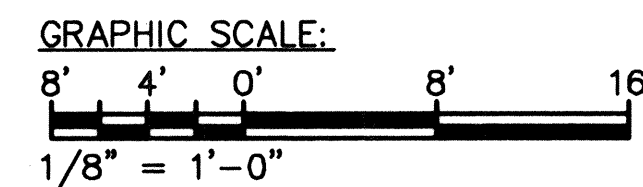
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	305 S-3	353



HALAWA PORTAL BUILDING
INBOUND ELEVATION

NOTE:

1. SEE 3T3 FOR CONDUIT / CABLE SCHEDULE
2. CONTRACTOR TO LOCATE ANTENNA FOR MAXIMUM RECEPTION / TRANSMISSION.
3. CONTRACTOR SHALL SUPPLY AND INSTALL 20 AMP CIRCUIT BREAKER FOR BI-DIRECTIONAL AMPLIFIER.



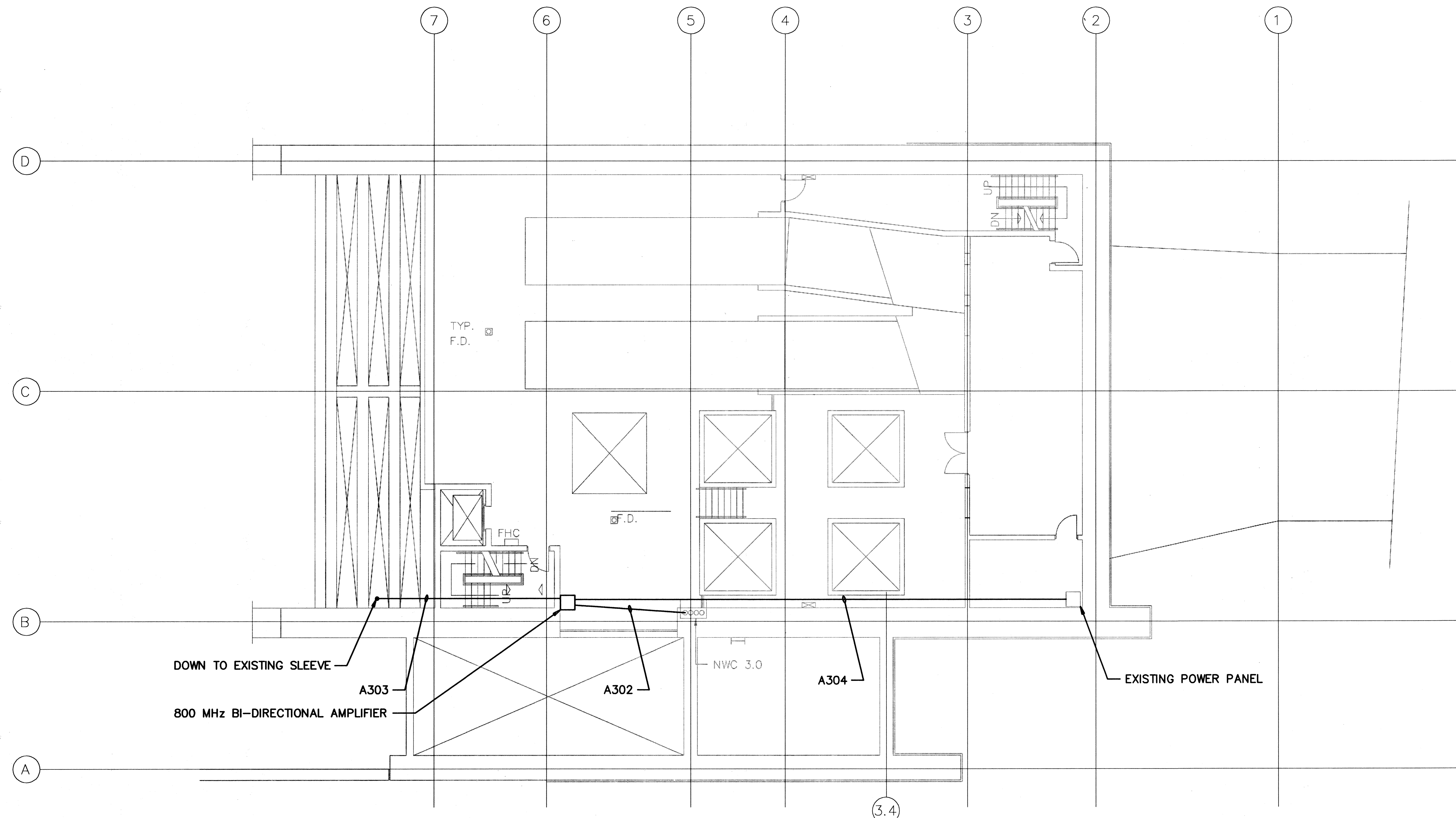
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

10/13/95	ADDENDUM I
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION 800 MHz RADIO REBROADCAST CONDUITS - SECTION B COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL / ACCESS ROADS SCALE: 1/8" = 1'-0" DATE: OCT 1995 SHEET NO. 7T4C OF 4 SHEETS	

ADD. 305 S-3

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY: CAD	10/04/95
DRAWN BY: WANDERSON	10/04/95
DESIGNED BY: WANDERSON	10/04/95
QUANTITIES BY: GERMANN	10/04/95
CHECKED BY:	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(75) UNIT III	1994	305 S-4	353



DOWN TO EXISTING SLEEVE

A303

800 MHZ BI-DIRECTIONAL AMPLIFIER

A302

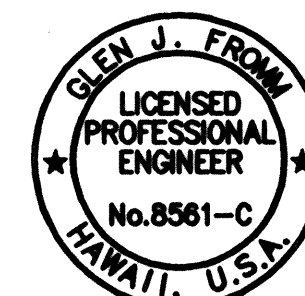
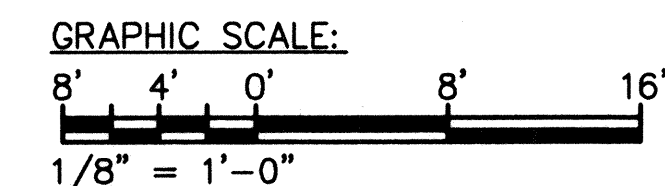
NWC 3.0

A304

EXISTING POWER PANEL

HALAWA PORTAL BUILDING INBOUND PLAN

NOTE:
1. SEE 3T3 FOR CONDUIT / CABLE SCHEDULE

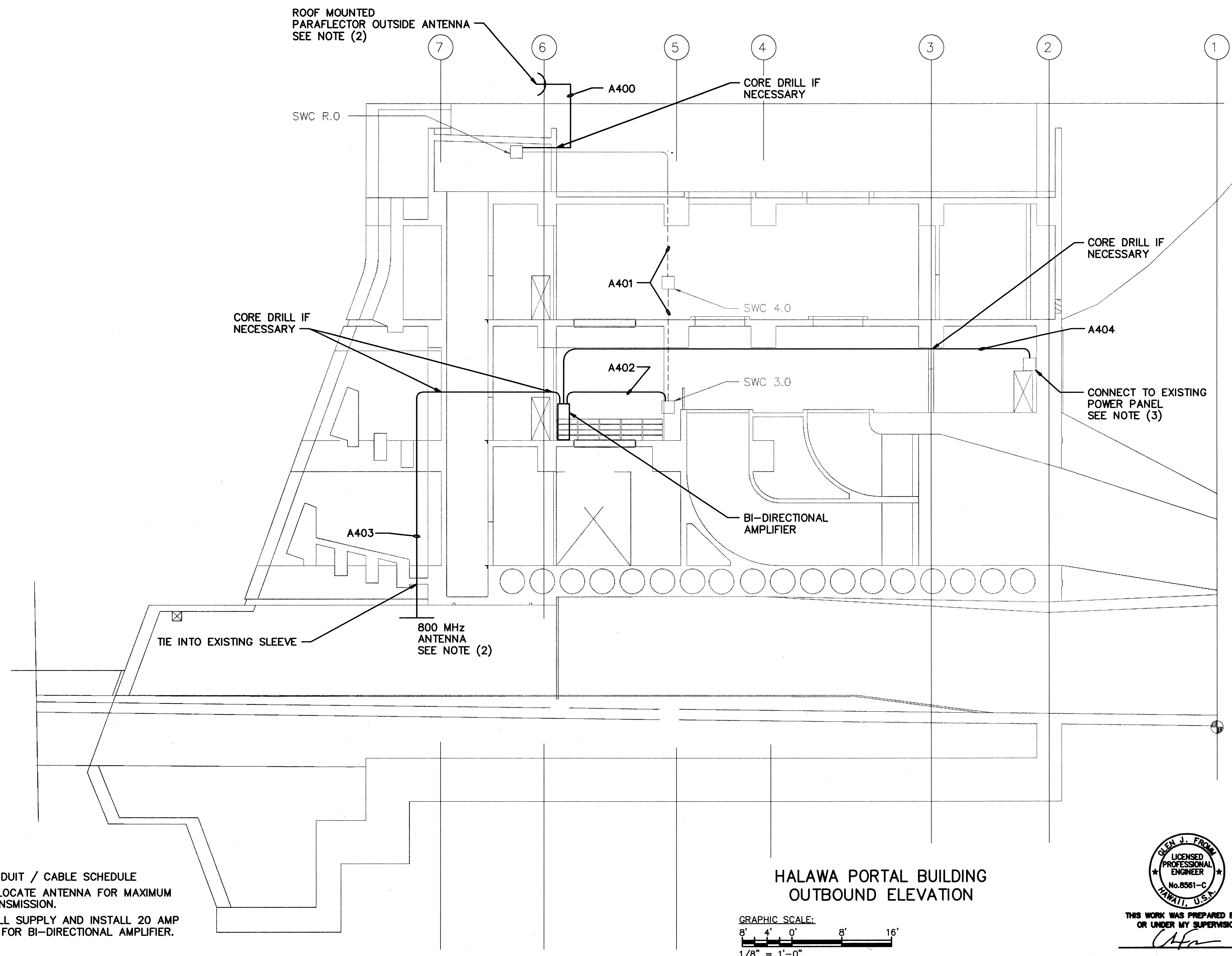


THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

10/13/95	ADDENDUM I
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION 800 MHZ RADIO REBROADCAST CONDUITS - LEVEL 3 COMMON WORK H-3 FINISH (UNIT III) FAIP NO. 1-H3-1(75), UNIT III T.K. TUNNEL / ACCESS ROADS	
SCALE: 1/8" = 1'-0" DATE: OCT 1995	
SHEET NO. 7T4D OF 4 SHEETS	

SURVEY PLOTTED BY	DATE
DRAWN BY	10/04/95
CHECKED BY	10/04/95
NOTED BY	10/04/95
ORIGINAL PLAN	10/04/95
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	305 S-5	353

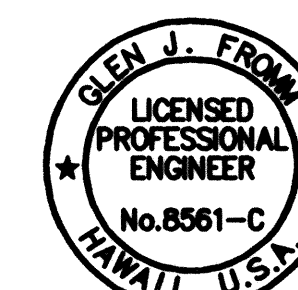
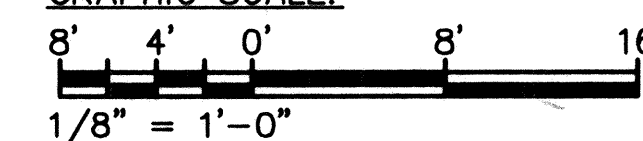


NOTE:

1. SEE 3T3 FOR CONDUIT / CABLE SCHEDULE
2. CONTRACTOR TO LOCATE ANTENNA FOR MAXIMUM RECEPTION / TRANSMISSION.
3. CONTRACTOR SHALL SUPPLY AND INSTALL 20 AMP CIRCUIT BREAKER FOR BI-DIRECTIONAL AMPLIFIER.

**HALAWA PORTAL BUILDING
OUTBOUND ELEVATION**

GRAPHIC SCALE:



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

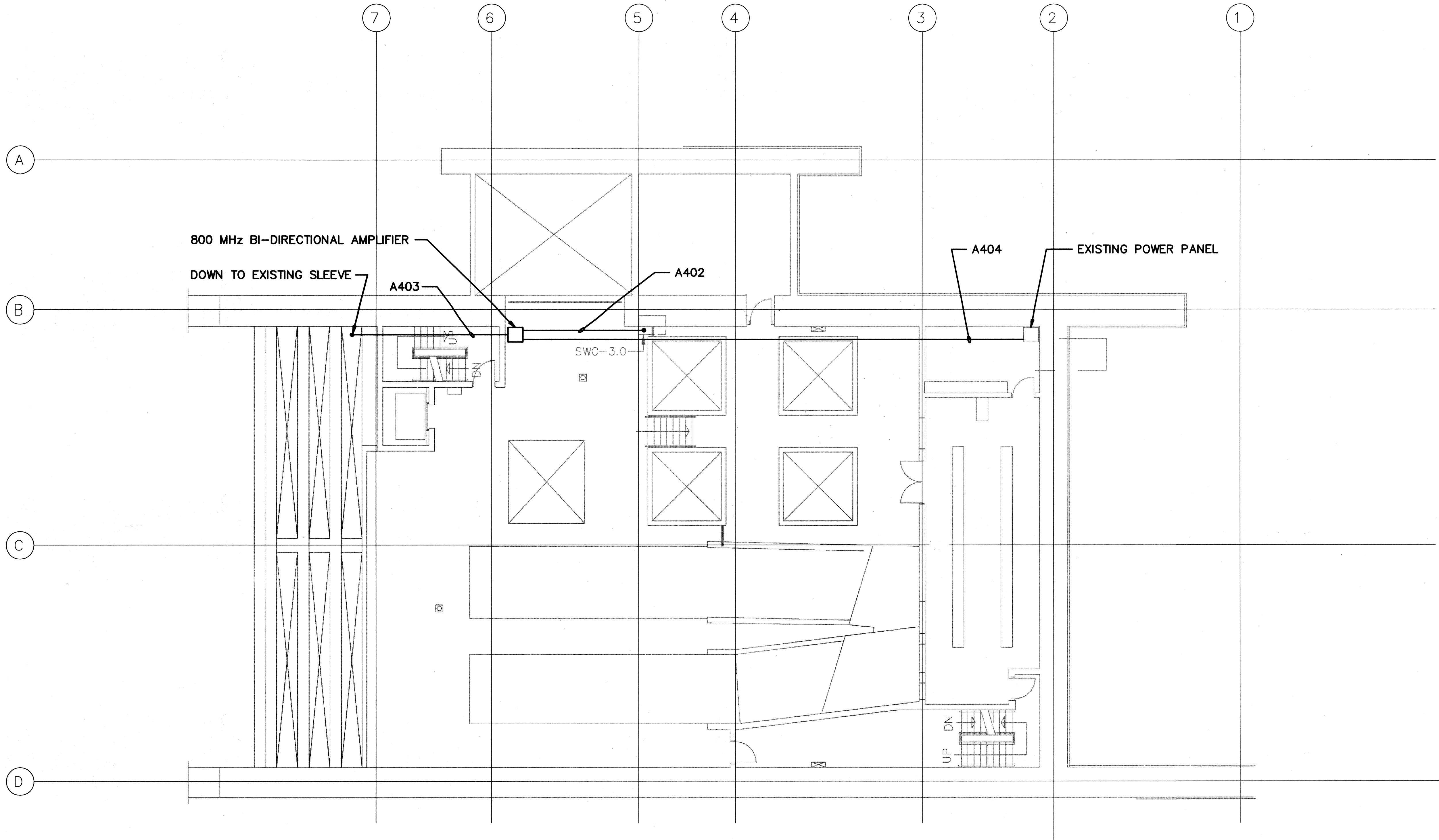
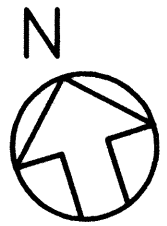
Glen J. From

10/13/95	ADDENDUM I
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION 800 MHz RADIO REBROADCAST CONDUITS - SECTION B COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL / ACCESS ROADS SCALE: 1/8" = 1'-0" DATE: OCT 1995 SHEET NO. 7T4E OF 4 SHEETS	

ADD. 305 S-5

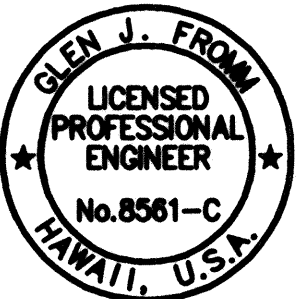
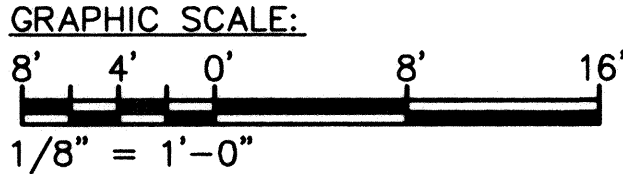
ORIGINAL PLAN	DATE
DESIGNED BY: WANDERSON	10/04/95
NOTED BY: GERMAN	10/04/95
CHECKED BY:	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	305 S-6	353



HALAWA PORTAL BUILDING
OUTBOUND PLAN

NOTE:
1. SEE 3T3 FOR CONDUIT / CABLE SCHEDULE



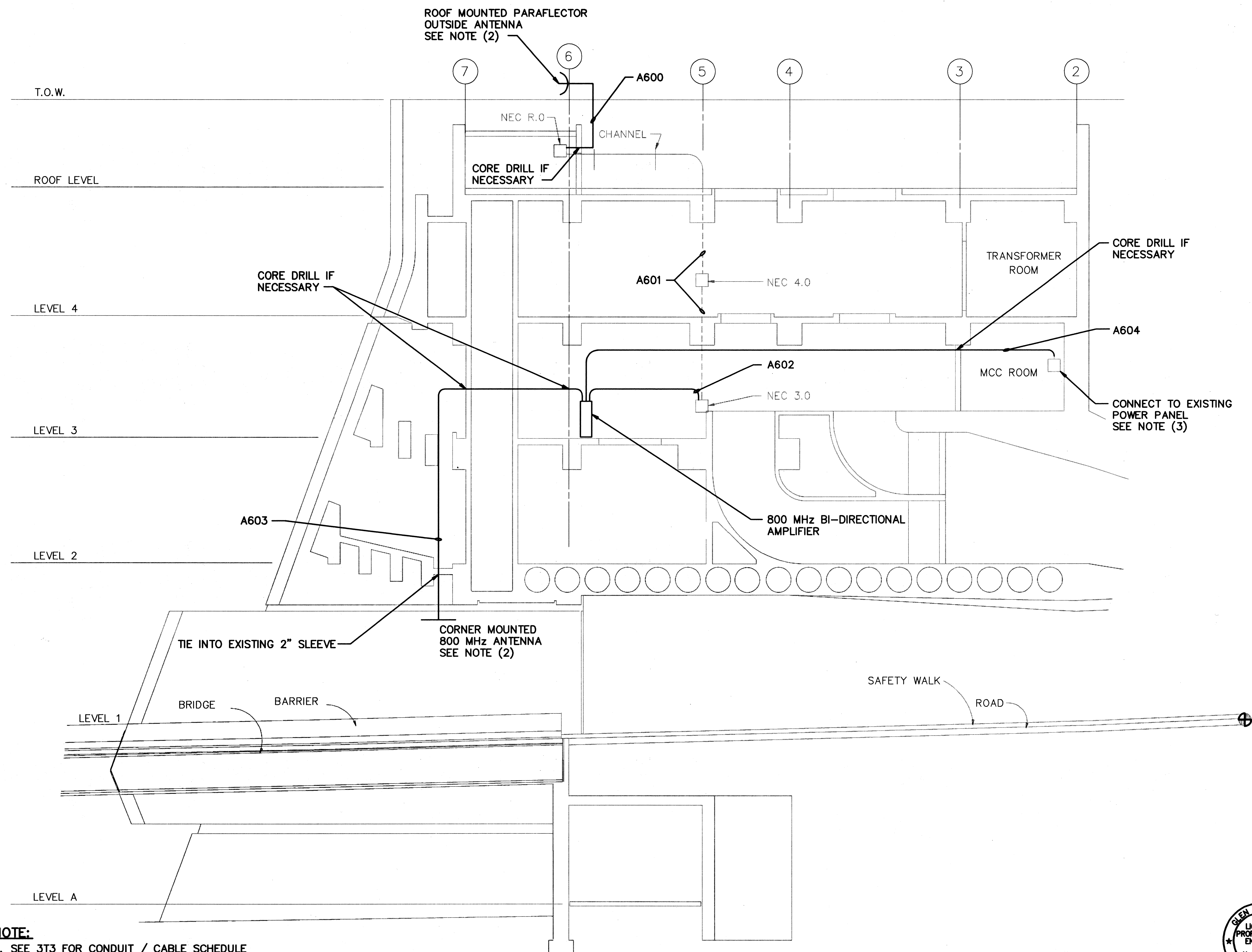
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

10/13/95	ADDENDUM I
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION 800 MHz RADIO REBROADCAST CONDUITS - LEVEL 3 COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL / ACCESS ROADS SCALE: 1/8" = 1'-0" DATE: OCT 1995 SHEET NO. 7T4F OF 4 SHEETS	

ADD. 305 S-6

DATE	10/04/95
SURVEY PLOTTED BY	CUD
DESIGNED BY	WANDERSON
QUANTITIES BY	G. FROM
CHECKED BY	
ORIGINAL PLAN	
NOTED BY	
NO.	

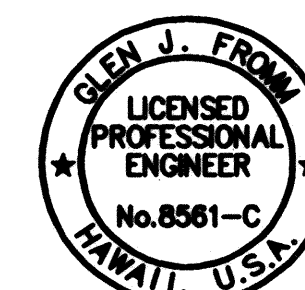
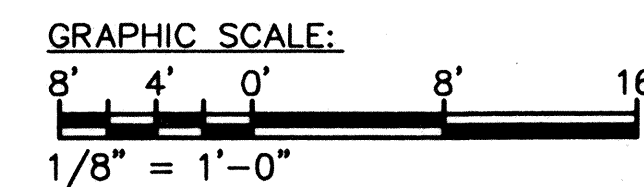
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	305 S-7	353



NOTE:

1. SEE 3T3 FOR CONDUIT / CABLE SCHEDULE
2. CONTRACTOR TO LOCATE ANTENNA FOR MAXIMUM RECEPTION / TRANSMISSION.
3. CONTRACTOR SHALL SUPPLY AND INSTALL 20 AMP CIRCUIT BREAKER FOR BI-DIRECTIONAL AMPLIFIER.

**HAIKU PORTAL BUILDING
INBOUND ELEVATION**

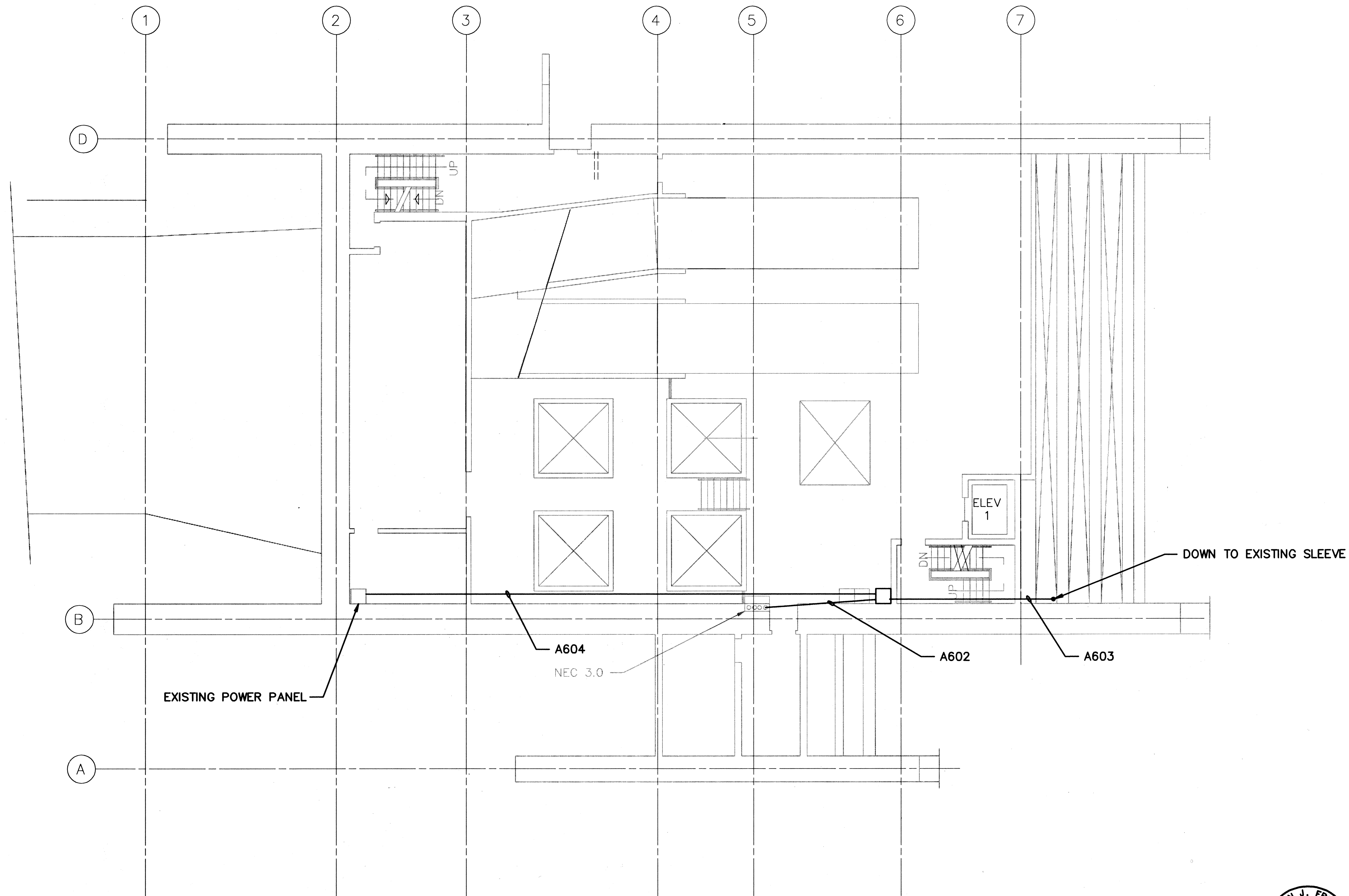


THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

10/13/95	ADDENDUM I
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION 800 MHz RADIO REBROADCAST CONDUITS - SECTION B COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL / ACCESS ROADS SCALE: 1/8" = 1'-0" DATE: OCT 1995 SHEET NO. 7T4G OF 4 SHEETS	

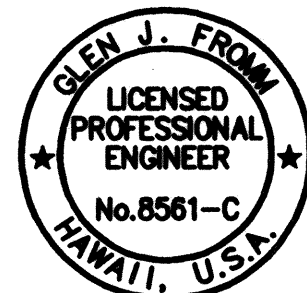
DATE	10/04/95
SURVEY PLOTTED BY	CAD
DESIGNED BY	WANDERSON
QUANTITIES BY	GERMAN
CHECKED BY	
ORIGINAL PLAN	
NOTBOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	305 S-8	353



HAKIU PORTAL BUILDING
INBOUND PLAN

GRAPHIC SCALE:
8' 4' 0' 8' 16'
1/8" = 1'-0"

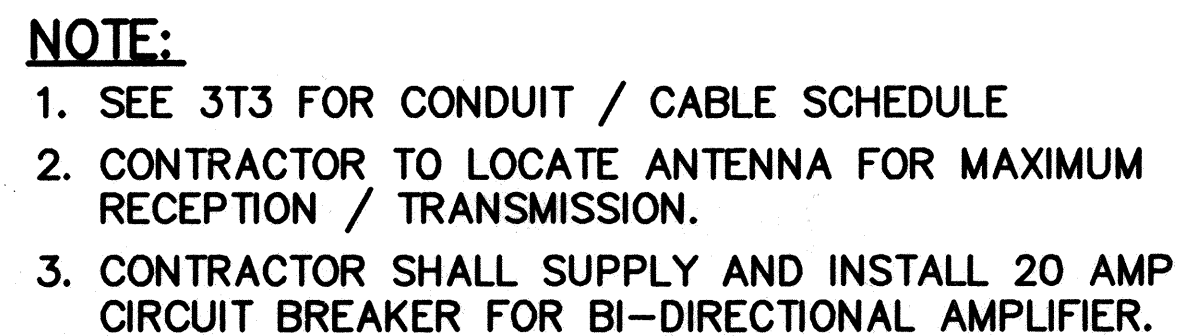


THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

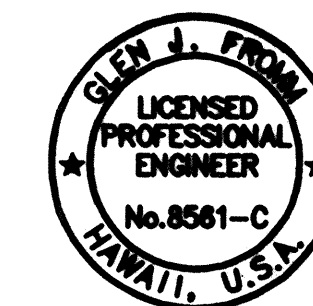
10/13/95	ADDENDUM I
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
800 MHz RADIO REBROADCAST	
CONDUITS LEVEL 3	
COMMON WORK	
H-3 FINISH (UNIT III)	
FAIP NO. I-H3-1(75), UNIT III	
T.K. TUNNEL / ACCESS ROADS	
SCALE: 1/8" = 1'-0"	DATE: OCT 1995
SHEET NO. 7T4H OF	4 SHEETS

SURVEY PLOTTED BY	DATE
10/04/95	
ORIGINAL PLAN	
DESIGNED BY	
10/04/95	
NOTED BY	
10/04/95	
CHECKED BY	
10/04/95	

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE <u>10/18/95</u>
NOTEBOOK	DRAWN BY _____	CADD _____
	TRACED BY _____	DESIGNED BY _____
	QUANTITIES BY _____	CHECKED BY _____
	No. _____	G. FROMI _____



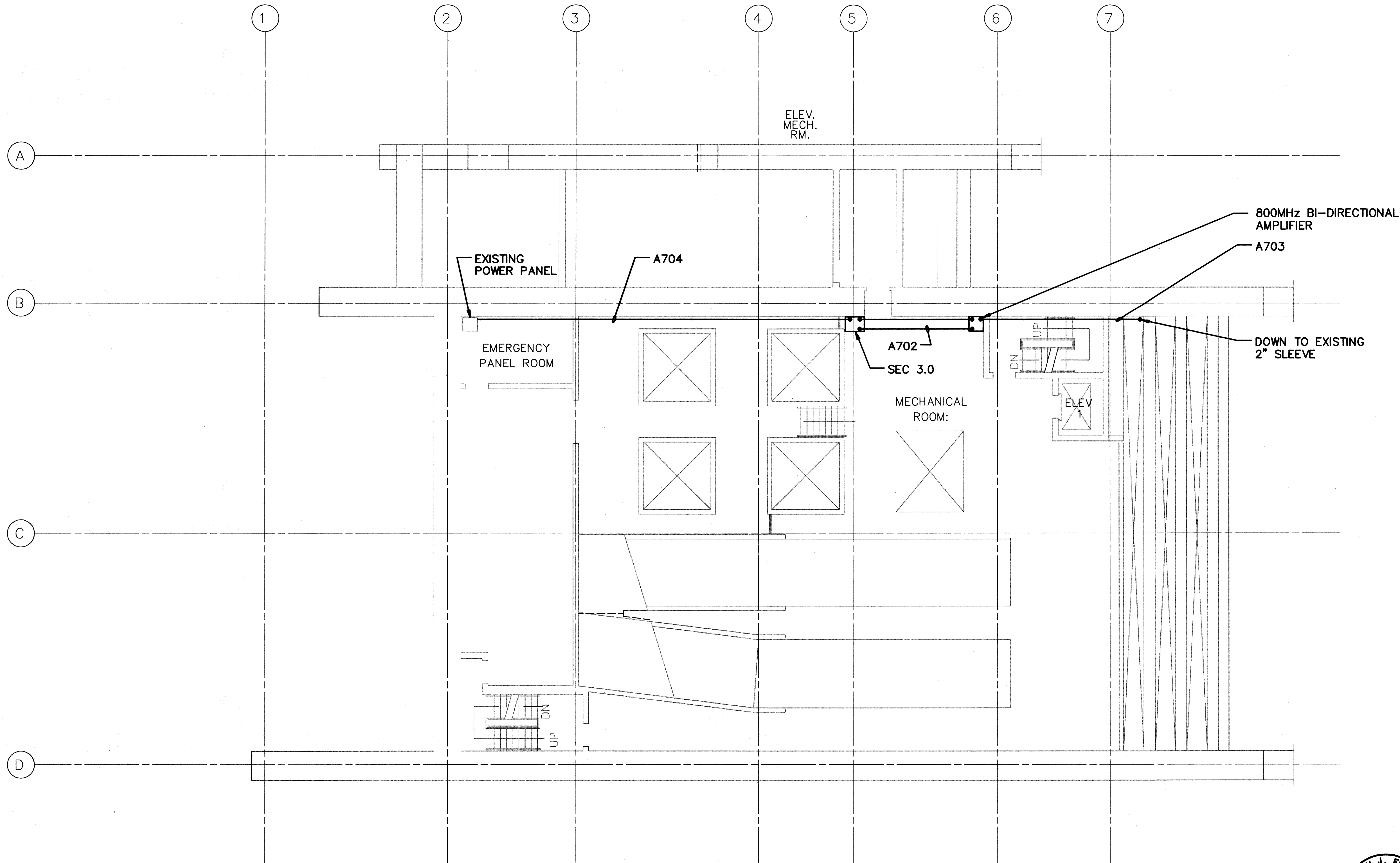
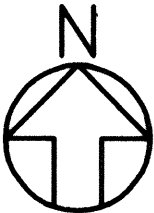
GRAPHIC SCALE:
8' 4' 0' 8' 1'
1/8" = 1'-0"



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

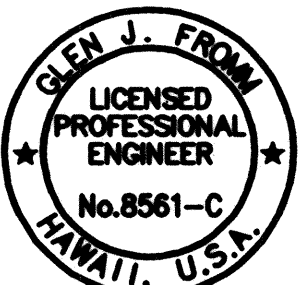
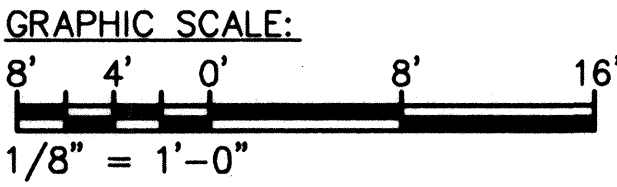
H375TQ7 -h3/c4 -10-18-95

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	305 S-10	353



NOTE:
1. SEE 3T3 FOR CONDUIT / CABLE SCHEDULE

HAIKU PORTAL BUILDING
OUTBOUND PLAN

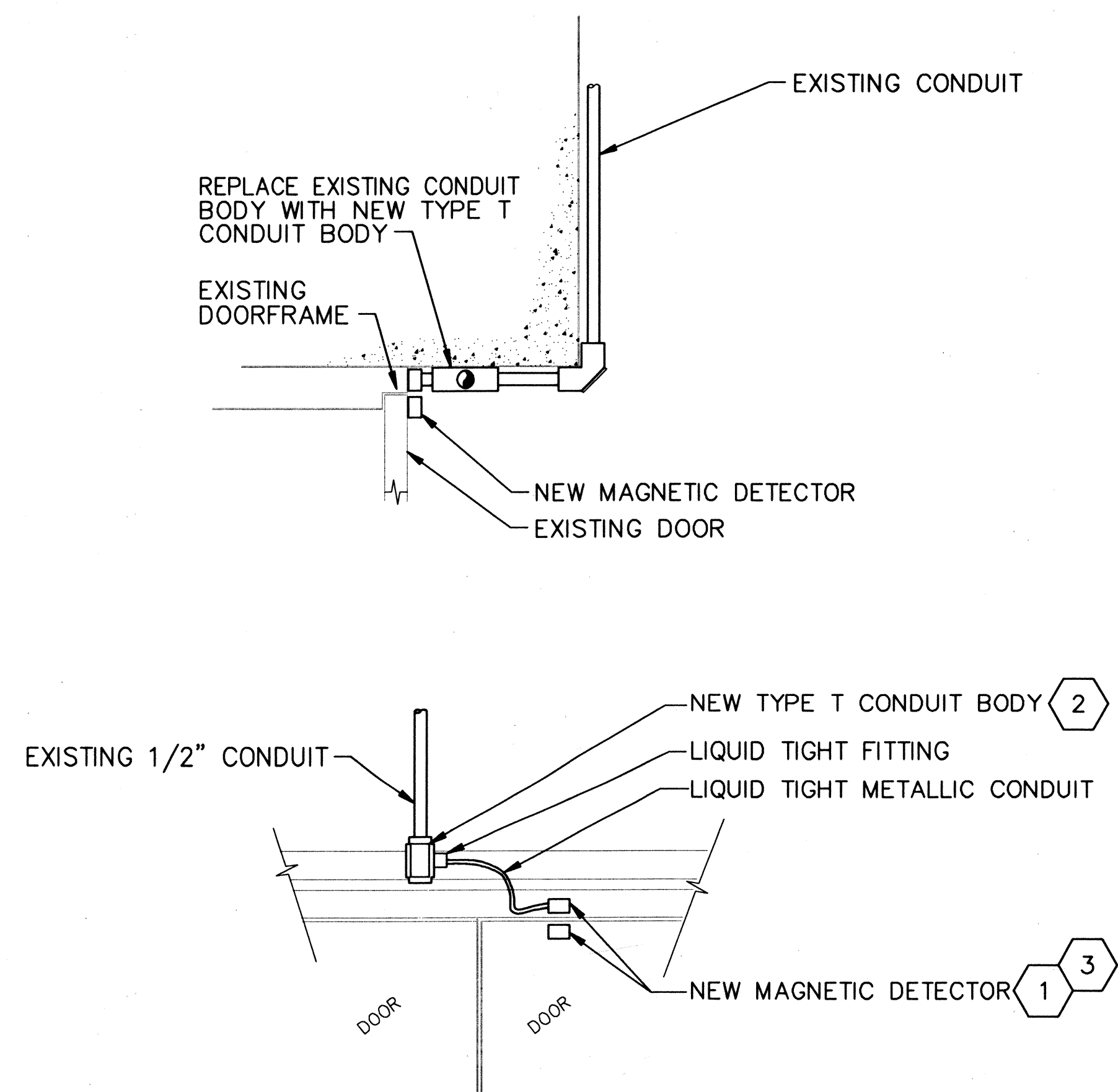
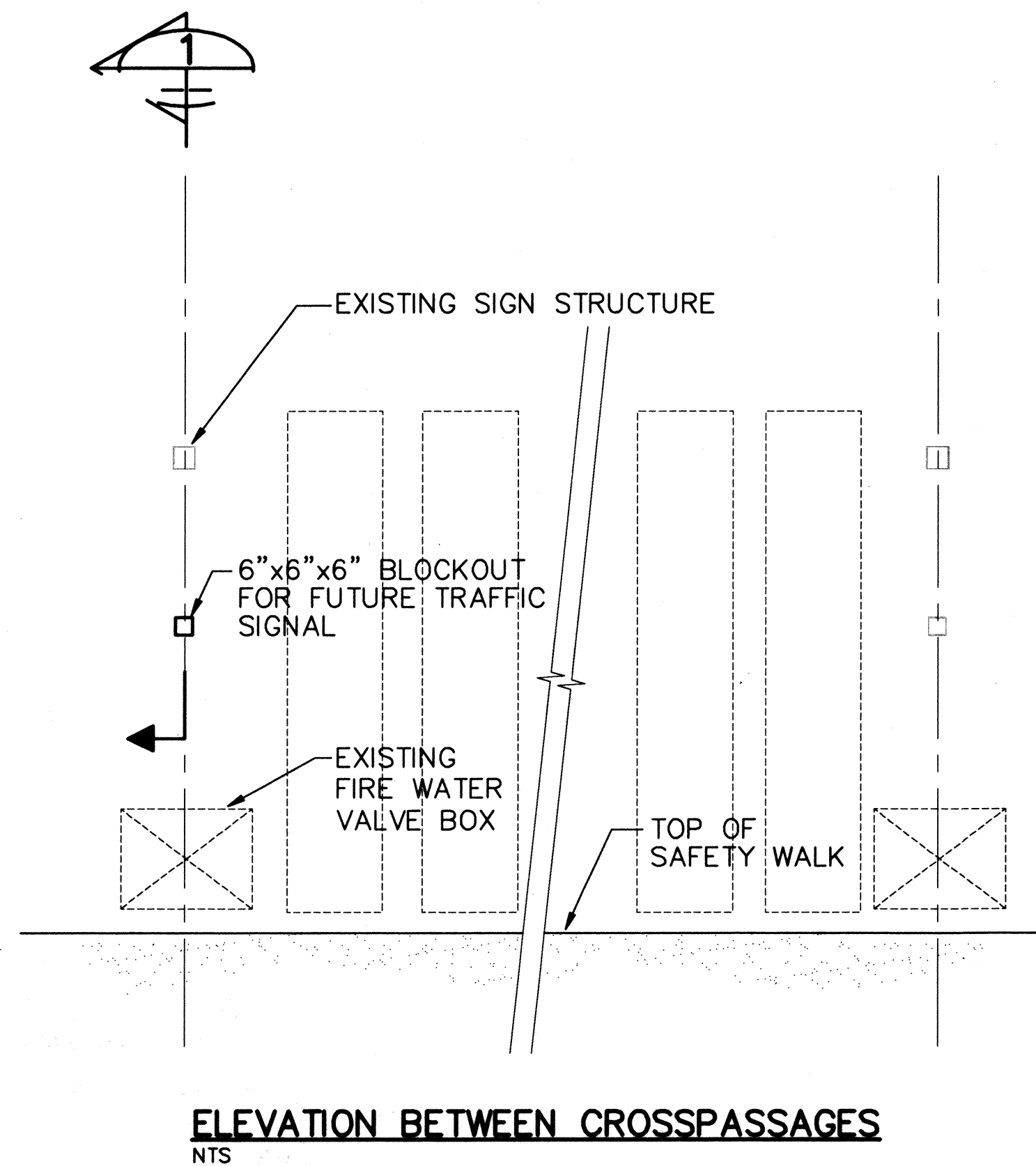
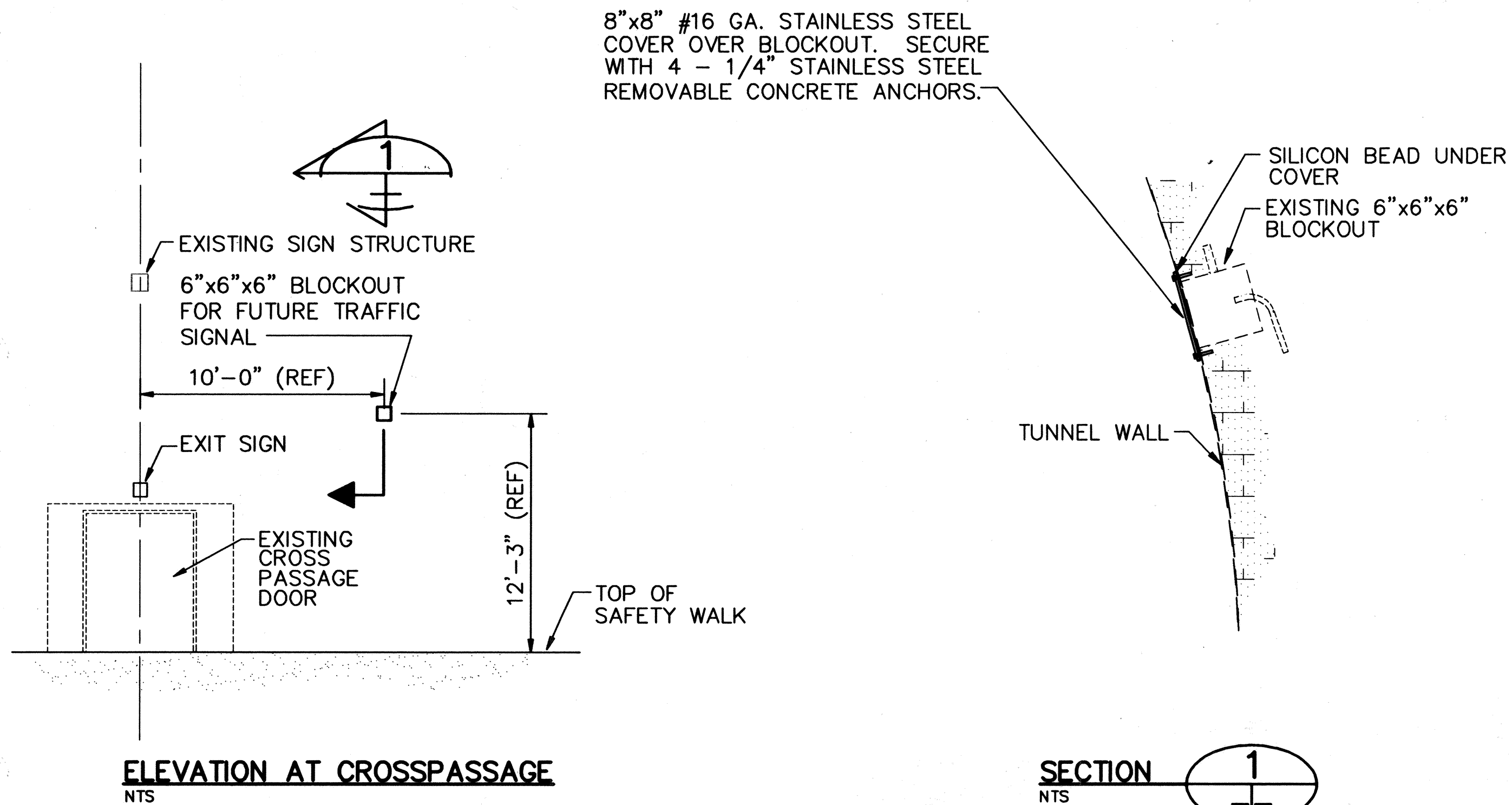


THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

GJF

10/13/95	ADDENDUM I
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
800 MHz RADIO REBROADCAST CONDUITS — LEVEL 3	
COMMON WORK	
H-3 FINISH (UNIT III)	
FAIP NO. I-H3-1(75), UNIT III	
T.K. TUNNEL / ACCESS ROADS	
SCALE: 1/8" = 1'-0"	DATE: OCT 1995
SHEET NO. 7T4J OF 4 SHEETS	

DATE	10/04/95
SURVEY PLOTTED BY	CUD
ORIGINAL PLAN	
DESIGNED BY	WANDERSON
NOTED BY	
CHECKED BY	GERMAN
DATE	10/04/95
ORIGINAL PLAN	
DESIGNED BY	WANDERSON
NOTED BY	
CHECKED BY	GERMAN
DATE	10/04/95

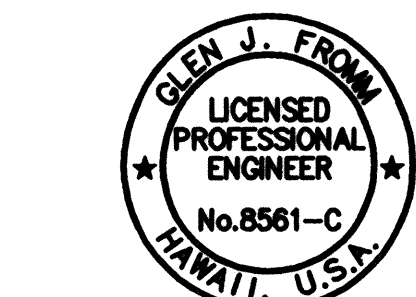


- 1 INSTALL NEW MAGNETIC CONTACT ON UNPROTECTED EXISTING DOOR. SHIM AS REQUIRED FOR PROPER OPERATION.
- 2 DISCONNECT EXISTING MAGNETIC DETECTOR, PULL WIRE BACK TO PULLING ELBOW, INSTALL NEW CONDUIT. SPLICE NEW MAGNETIC CONTACT TO EXISTING CIRCUIT AS REQUIRED FOR OPERATION ON EXISTING LEAD-IN.
- 3 FIELD VERIFY AND MATCH EXISTING CONTACT OPERATION (N.O. OR N.C.).

**CROSSPASSAGE DOOR
INTRUSION DETECTOR INSTALLATION**
NTS

DEVICE	STATION	HIGHWAY	SIGN FACES TRAFFIC MOVING	SIGN BRIDGE	CNTR.	MOUNTING
TS 19 (F)	623+10	H3 OB (TNL)	OB	N/A	TC (F) 07	TUNNEL WALL VERTICAL SUPPORT
TS 22 (F)	623+10	H3 OB (TNL)	IB	N/A	TC (F) 07	TUNNEL WALL VERTICAL SUPPORT
TS 22.1 (F)	623+10	H3 OB (TNL)	OB	N/A	TC (F) 07	TUNNEL WALL VERTICAL SUPPORT
TS 27 (F)	633+10	H3 OB (TNL)	OB	N/A	TC (F) 09	TUNNEL WALL VERTICAL SUPPORT
TS 30 (F)	633+10	H3 OB (TNL)	IB	N/A	TC (F) 09	TUNNEL WALL VERTICAL SUPPORT
TS 30.1 (F)	633+10	H3 OB (TNL)	OB	N/A	TC (F) 09	TUNNEL WALL VERTICAL SUPPORT
TS 35 (F)	643+10	H3 OB (TNL)	OB	N/A	TC (F) 10	TUNNEL WALL VERTICAL SUPPORT
TS 38 (F)	643+10	H3 OB (TNL)	IB	N/A	TC (F) 10	TUNNEL WALL VERTICAL SUPPORT
TS 38.1 (F)	643+10	H3 OB (TNL)	OB	N/A	TC (F) 10	TUNNEL WALL VERTICAL SUPPORT
TS 43 (F)	652+85	H3 OB (TNL)	OB	N/A	TC (F) 12	TUNNEL WALL VERTICAL SUPPORT
TS 46 (F)	652+85	H3 OB (TNL)	IB	N/A	TC (F) 12	TUNNEL WALL VERTICAL SUPPORT
TS 46.1 (F)	652+85	H3 OB (TNL)	OB	N/A	TC (F) 12	TUNNEL WALL VERTICAL SUPPORT
TS 65 (F)	623+00	H3 OB (TNL)	OB	N/A	TC (F) 07	TUNNEL WALL VERTICAL SUPPORT
TS 65.1 (F)	623+00	H3 OB (TNL)	IB	N/A	TC (F) 07	TUNNEL WALL VERTICAL SUPPORT
TS 68 (F)	623+00	H3 OB (TNL)	IB	N/A	TC (F) 07	TUNNEL WALL VERTICAL SUPPORT
TS 73 (F)	632+75	H3 OB (TNL)	OB	N/A	TC (F) 09	TUNNEL WALL VERTICAL SUPPORT
TS 73.1 (F)	632+75	H3 OB (TNL)	IB	N/A	TC (F) 09	TUNNEL WALL VERTICAL SUPPORT
TS 76 (F)	632+75	H3 OB (TNL)	IB	N/A	TC (F) 09	TUNNEL WALL VERTICAL SUPPORT
TS 81 (F)	642+65	H3 OB (TNL)	OB	N/A	TC (F) 10	TUNNEL WALL VERTICAL SUPPORT
TS 81.1 (F)	642+65	H3 OB (TNL)	IB	N/A	TC (F) 10	TUNNEL WALL VERTICAL SUPPORT
TS 84 (F)	642+65	H3 OB (TNL)	IB	N/A	TC (F) 10	TUNNEL WALL VERTICAL SUPPORT
TS 89 (F)	652+65	H3 OB (TNL)	OB	N/A	TC (F) 12	TUNNEL WALL VERTICAL SUPPORT
TS 89.1 (F)	652+65	H3 OB (TNL)	IB	N/A	TC (F) 12	TUNNEL WALL VERTICAL SUPPORT
TS 92 (F)	652+65	H3 OB (TNL)	IB	N/A	TC (F) 12	TUNNEL WALL VERTICAL SUPPORT

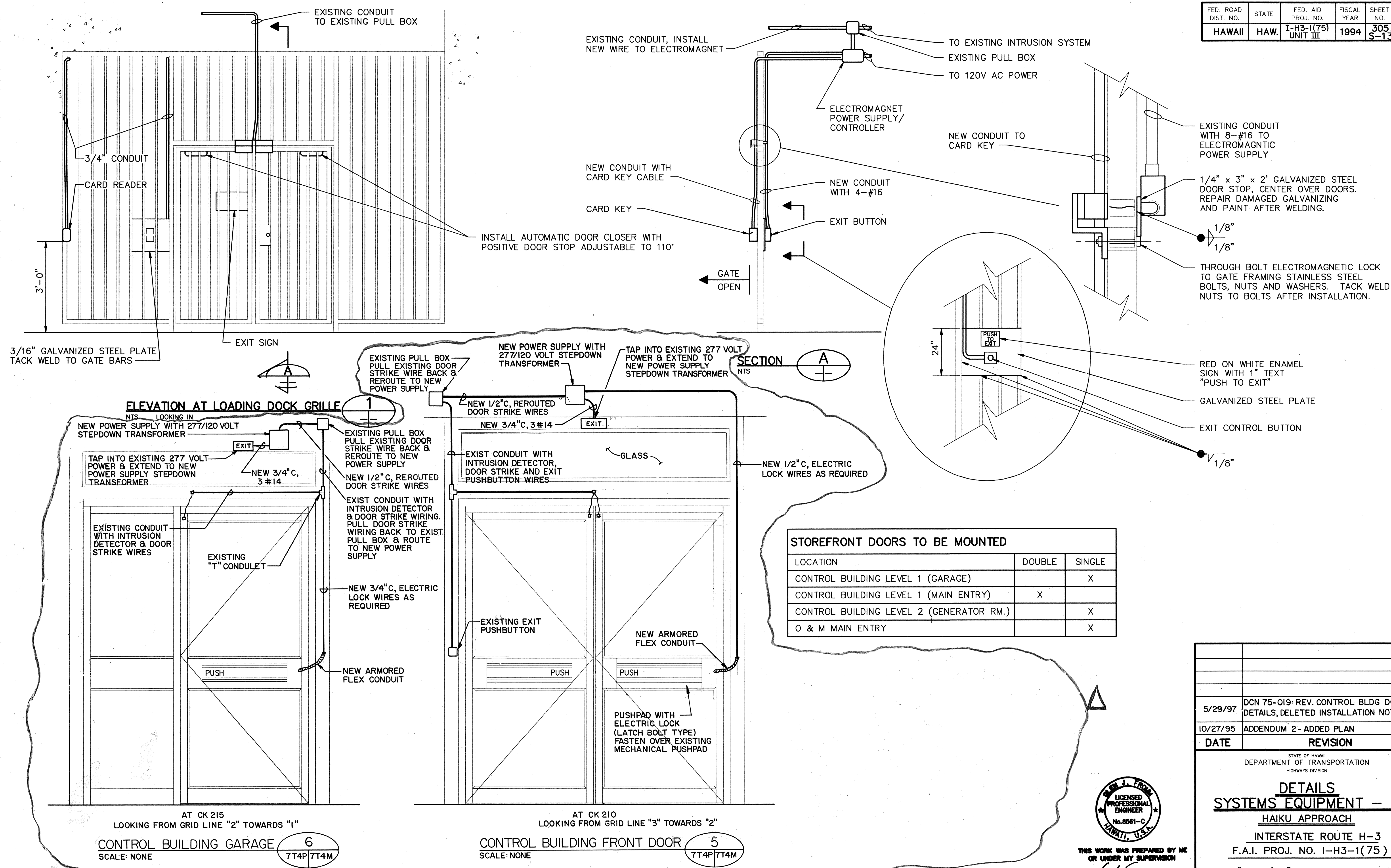
TUNNEL WALL - FUTURE TRAFFIC SIGNAL INSTALLATION DETAIL
NTS



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

10/13/95	ADDENDUM I
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DETAILS	
SYSTEMS EQUIPMENT - 1	
HAIKU APPROACH	
INTERSTATE ROUTE H-3	
F.A.I. PROJ. NO. I-H3-1(75)	
SCALE: 1" = 20'-0" DATE: OCT 1995	
SHEET NO. 7T4L OF 4 SHEETS	

ADD. 305 S-12



5/29/97	DCN 75-019: REV. CONTROL BLDG DOOR DETAILS, DELETED INSTALLATION NOTES
10/27/95	ADDENDUM 2- ADDED PLAN
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAILS
SYSTEMS EQUIPMENT - 2
HAIKU APPROACH
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(75)

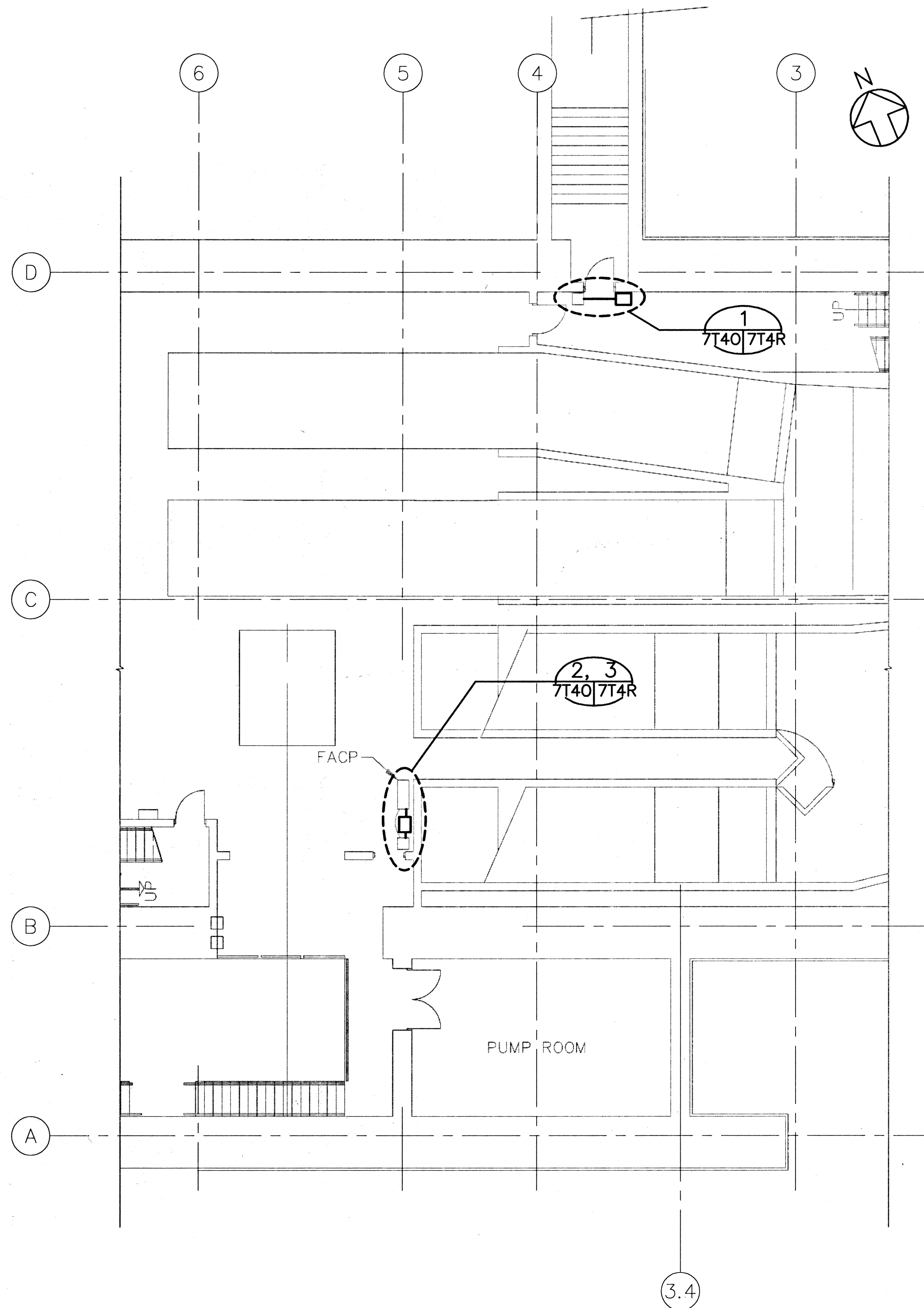
SCALE: 1" = 20'-0" DATE: OCT 1995
SHEET NO. 7T4M OF 4 SHEETS
C.O. ADD. 305 S-13

THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

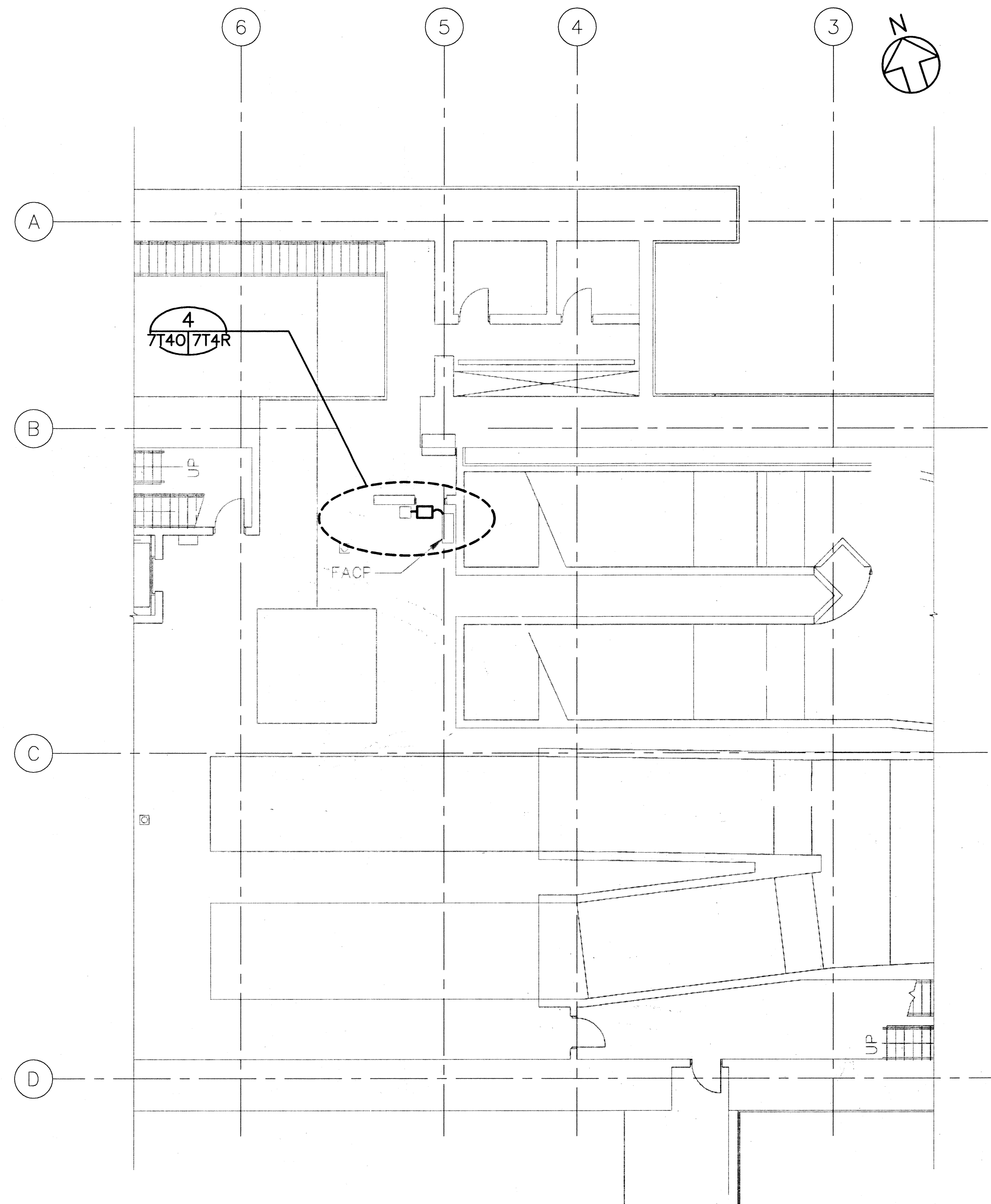
[Signature]

SURVEY PLOTTED BY: DATE: 10/04/95
DRAWN BY: CAD: 10/03/95
CHECKED BY: W. ANDERSON: 10/03/95
NOTED BY: G. ROMAN: 10/03/95

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(75) UNIT III	1994	305 S-15	353



Halawa Inbound Portal Bldg - Level 2



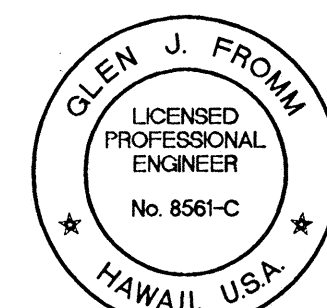
Halawa Outbound Portal Bldg - Level 2

NOTE:
1. EXISTING EQUIPMENT AND CONDUIT NOT SHOWN.
SEE PLANS, FAIP NO. I-H3-1(65)

5/29/97	DCN 75-019: SHEET ADDED
DATE	REVISION

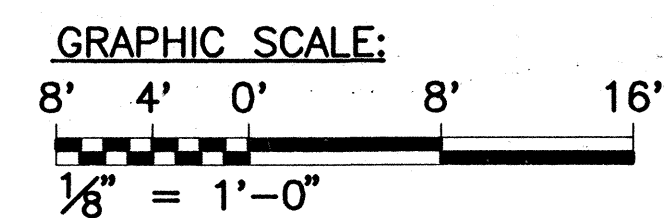
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAILS
SYSTEMS EQUIPMENT - 3
COMMON WORK
H-3 FINISH (UNIT III)
FAIP NO. I-H3-1(75), UNIT III
I.K. TUNNEL/ACCESS ROADS
SCALE: 1/8" = 1'-0" DATE: MAY 1997
SHEET NO. 7T40 OF 4 SHEETS



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

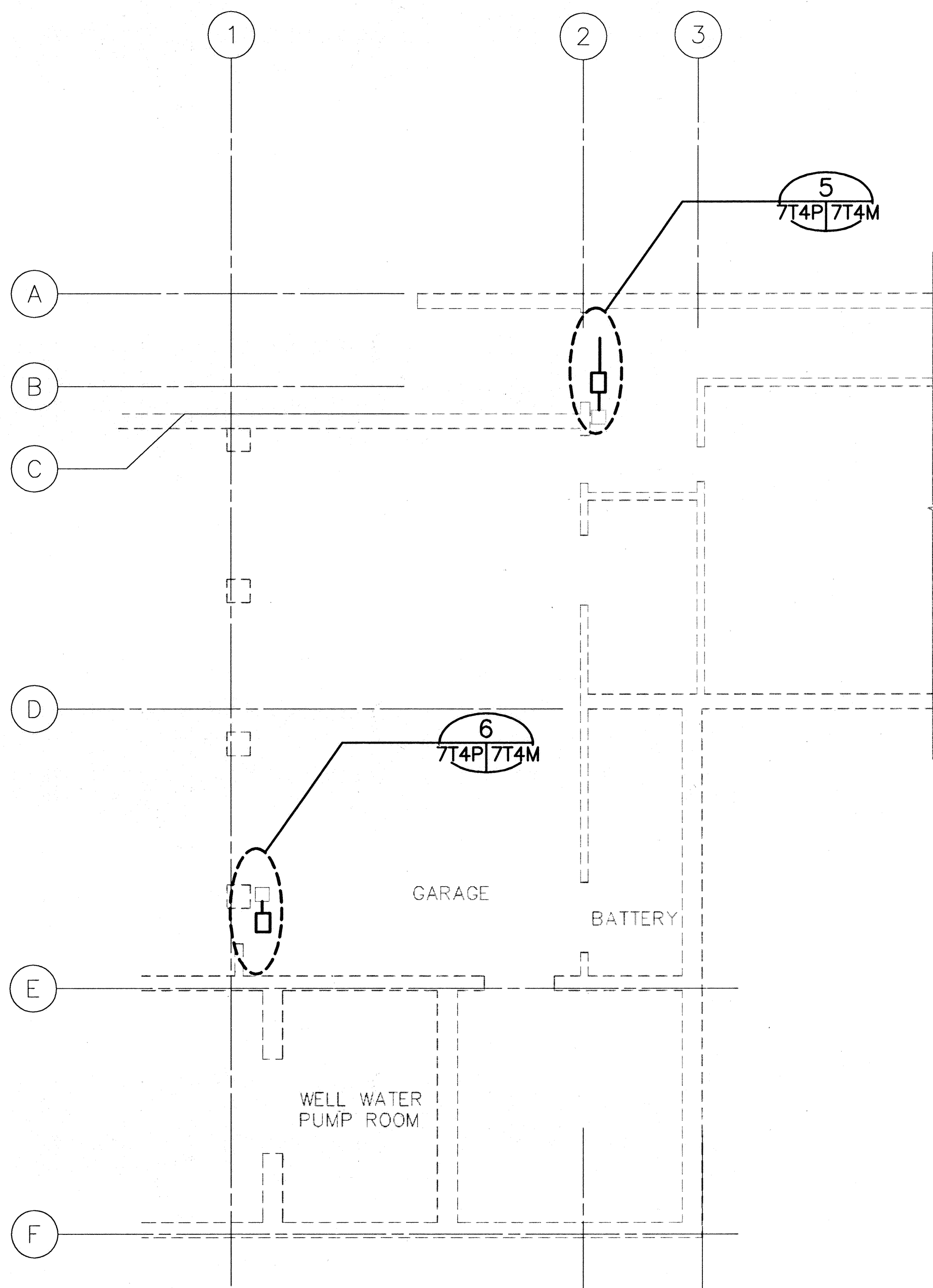
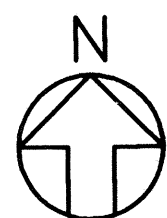
GJF



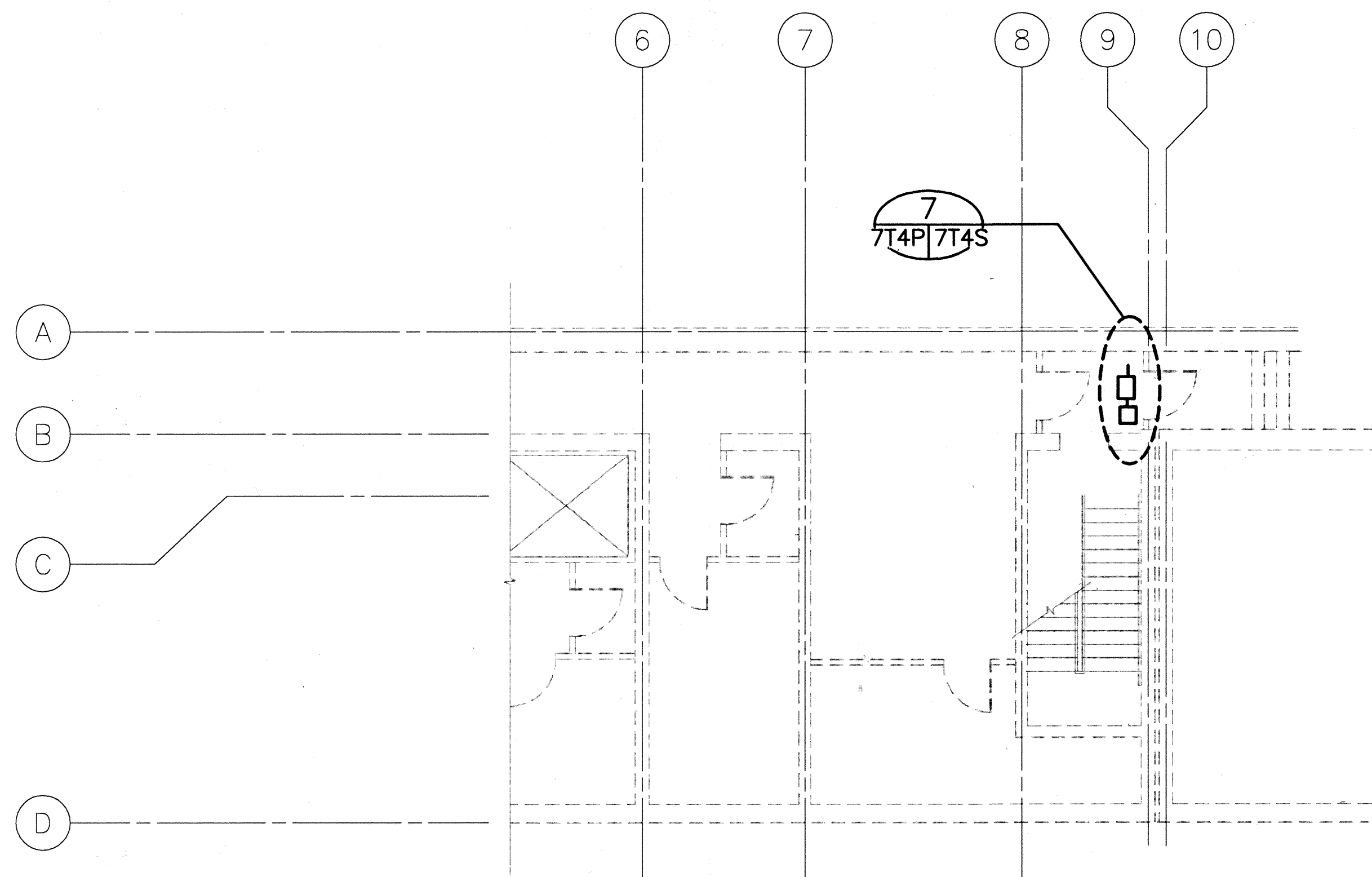
ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
QUANTITIES BY	
NO.	

SURVEY PLOTTED BY
DATE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT III	1994	305 S-16	353



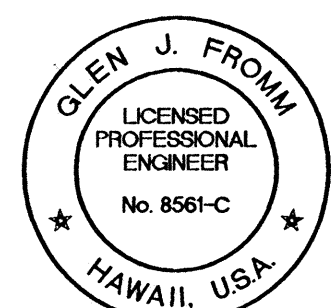
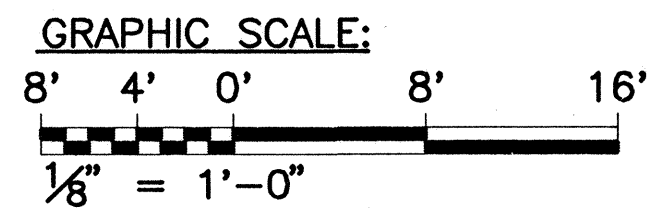
CONTROL BUILDING — LEVEL 1



CONTROL BUILDING — LEVEL 2

NOTE:
I. EXISTING EQUIPMENT AND CONDUIT NOT SHOWN.
SEE PLANS, FAIP NO. I-H3-1(65)

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

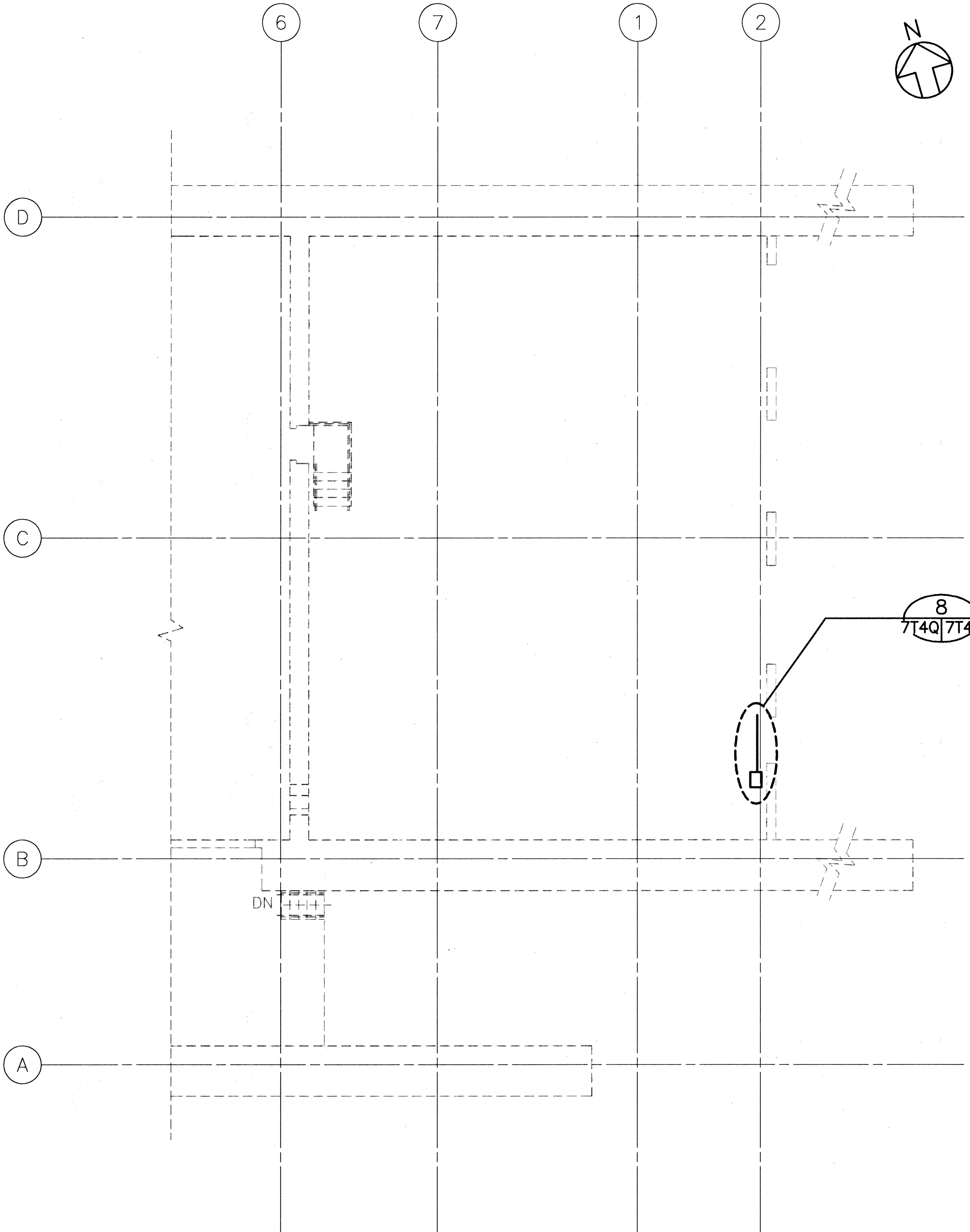


THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

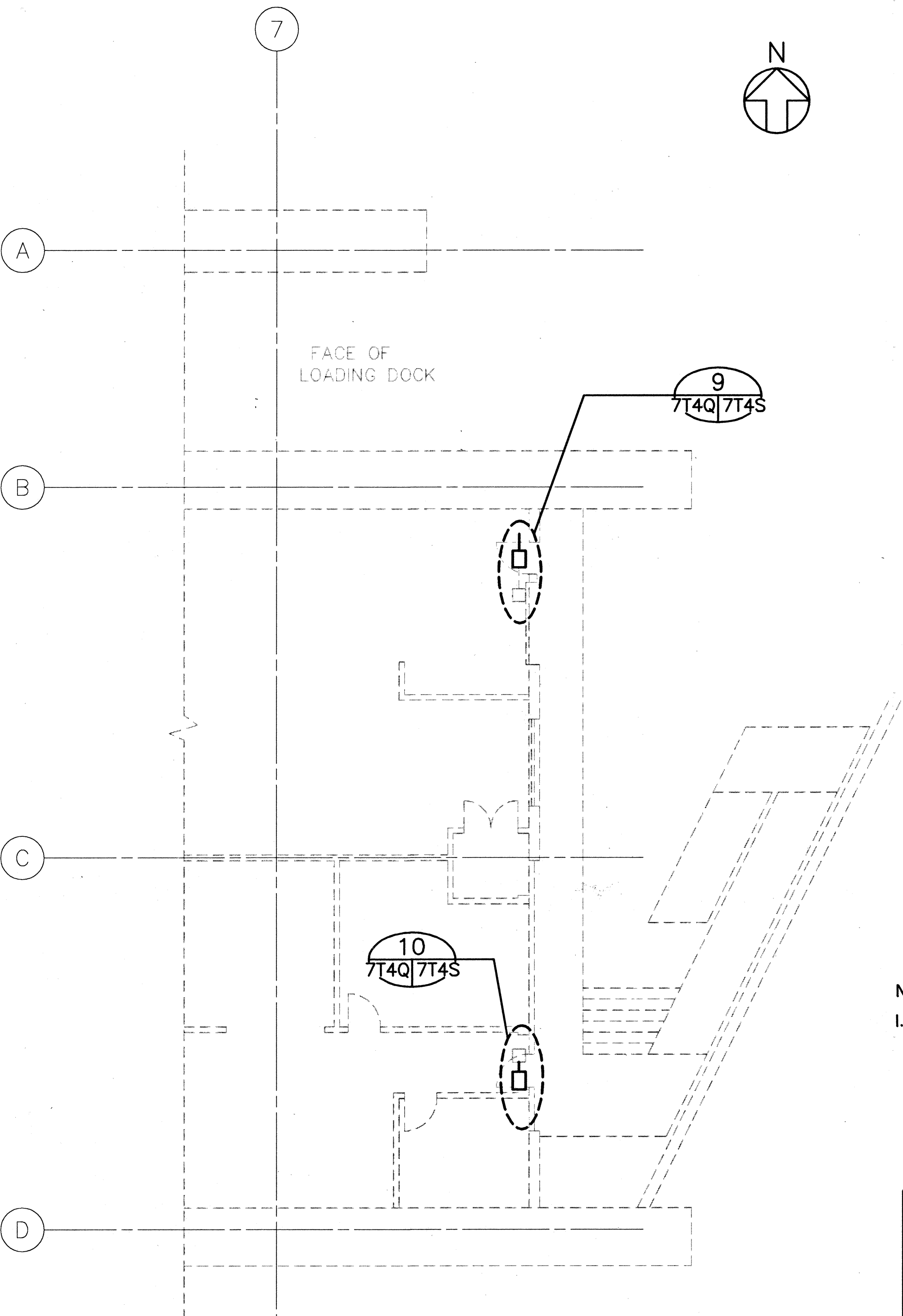
GJF

5/29/97	DCN75-019: SHEET ADDED
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION DETAILS SYSTEMS EQUIPMENT — 4 COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III T.K. TUNNEL/ACCESS ROADS SCALE: 1/8"=1'-0" DATE: MAY 1997 SHEET NO. 7T4P OF 4 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(75) UNIT III	1994	305 S-17	353



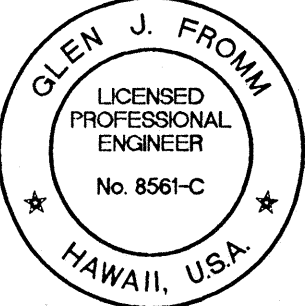
O & M GARAGE
HAIKU INBOUND PORTAL BUILDING



O & M OFFICE / SHOP
HAIKU OUTBOUND PORTAL BUILDING

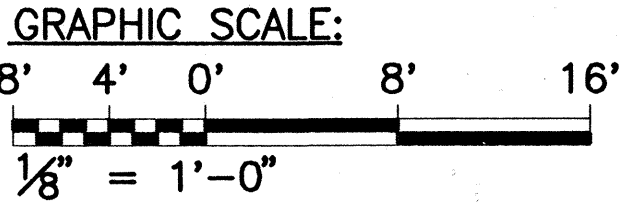
NOTE:
I. EXISTING EQUIPMENT AND CONDUIT NOT SHOWN.
SEE PLANS, FAIP NO. 1-H3-1(65)

5/29/97	DCN 75-019: SHEET ADDED
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION DETAILS SYSTEMS EQUIPMENT – 5 COMMON WORK H-3 FINISH (UNIT III) FAIP NO. 1-H3-1(75), UNIT III I.K. TUNNEL/ACCESS ROADS SCALE: 1/8" = 1'-0" DATE: MAY 1997	
SHEET NO. 7T4Q OF 4 SHEETS	



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

GJF

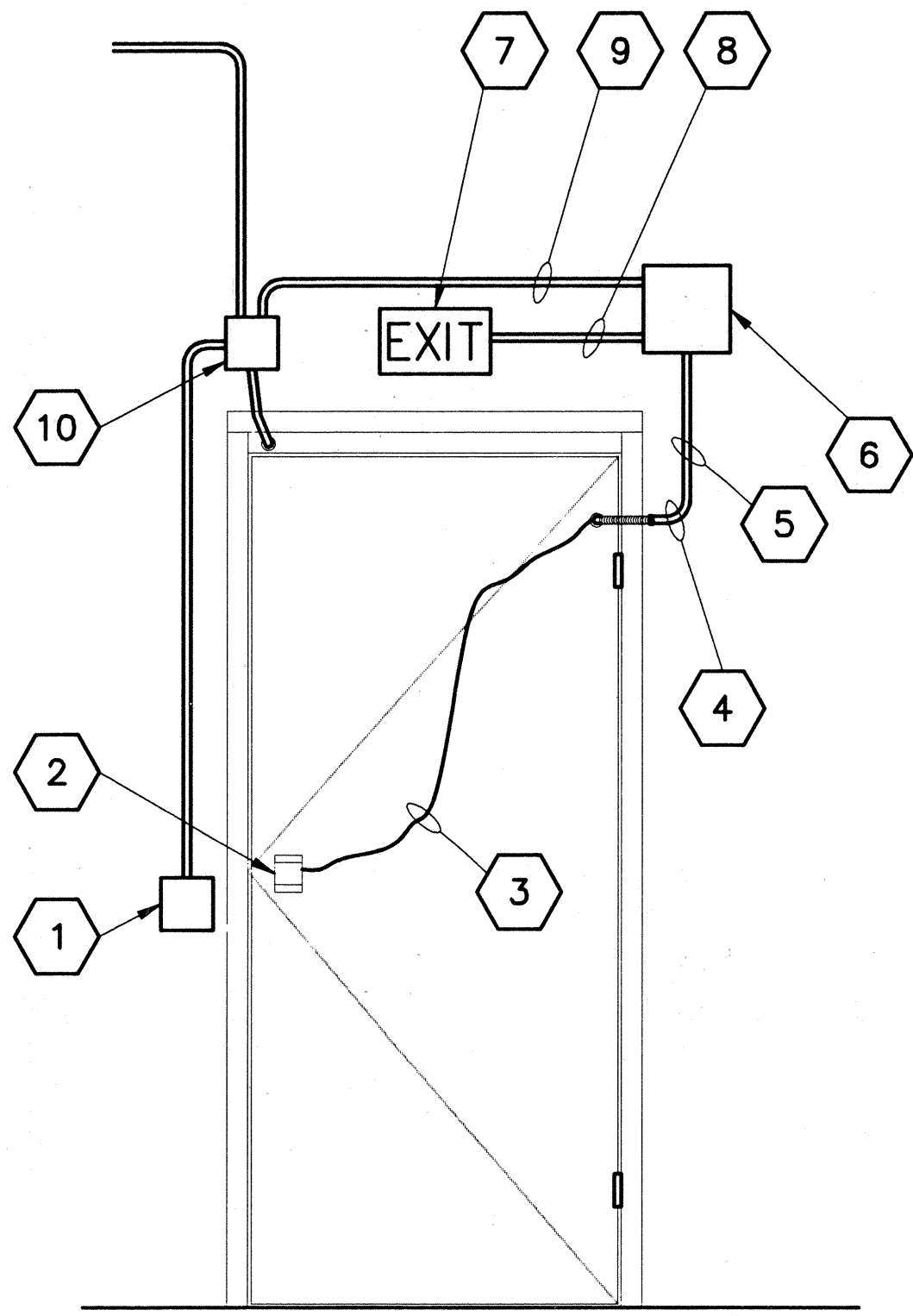


ORIGINAL PLAN	DATE
NO. _____	_____
SURVEY PLOTTED BY _____	DESIGNED BY _____
TRACED BY _____	CHECKED BY _____
NOTE BOOK	QUANTITIES BY _____
NO. _____	CHECKED BY _____

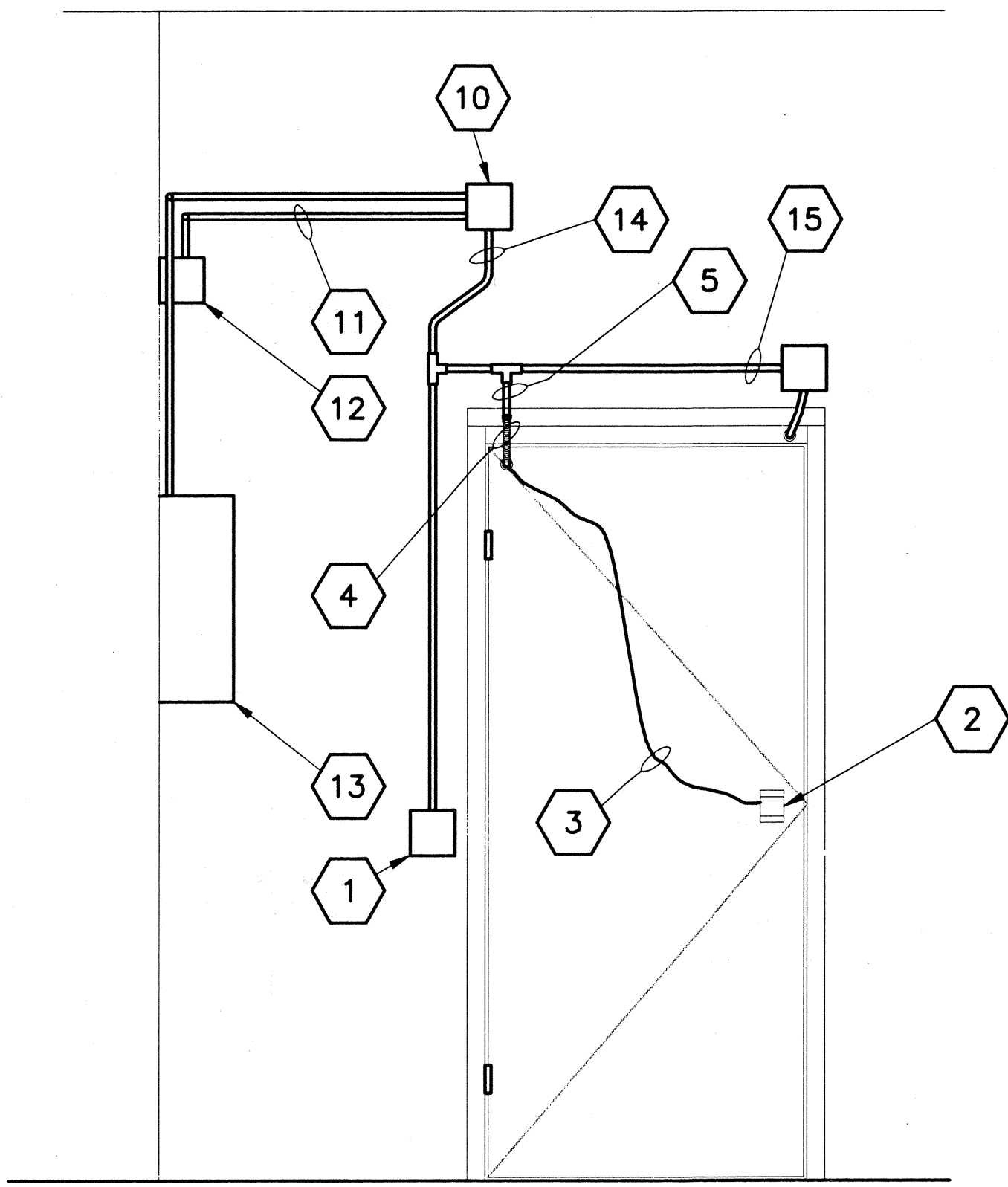
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT III	1994	305 S-18	353

INSTALLATION NOTES:

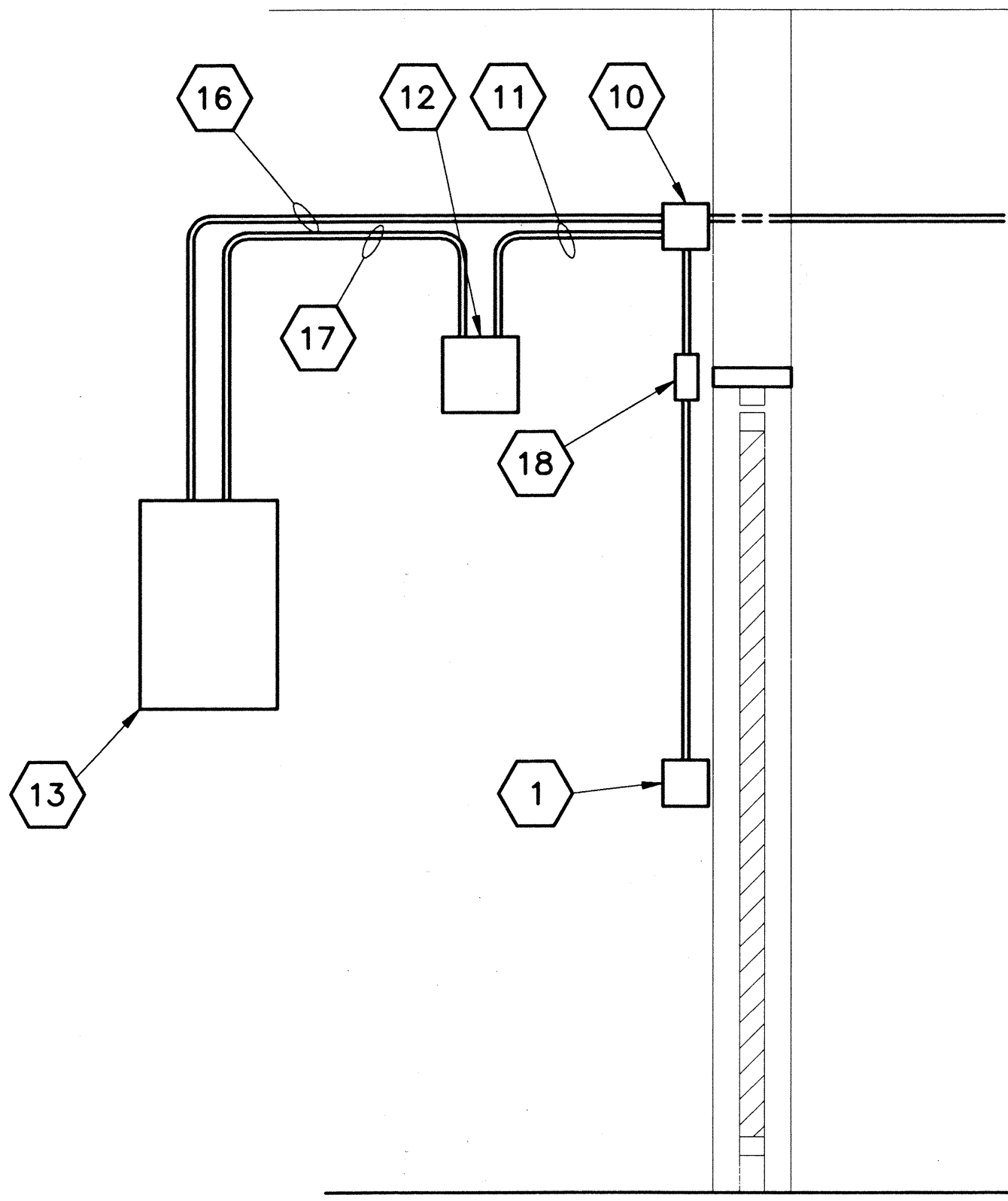
- EXISTING EXIT PUSHBUTTON
- REMOVE AND REPLACE EXISTING DOOR LOCK WITH NEW ELECTRIC LOCK (LATCH BOLT TYPE)
- INSTALL WIRE IN DOOR
- ARMORED FLEX CONDUIT
- NEW 1/2" CONDUIT WITH DOOR ELECTRIC LOCK WIRES AS REQUIRED
- NEW POWER SUPPLY WITH 277/120 VOLT STEP-DOWN TRANSFORMER
- TAP INTO EXISTING 277V POWER & EXTEND TO NEW POWER SUPPLY STEP-DOWN TRANSFORMER
- NEW 3/4" CONDUIT WITH 3 #14 WIRES
- NEW 1/2" CONDUIT WITH REROUTED WIRES
- EXISTING PULLBOX. PULL EXISTING DOOR STRIKE WIRES BACK & REROUTE INTO NEW POWER SUPPLY
- NEW 1/2" CONDUIT WITH REROUTED DOOR STRIKE WIRES & NEW WIRES FOR ELECTRIC LOCK
- NEW POWER SUPPLY
- EXISTING FACP. TAP INTO EXISTING 120 VOLT POWER & EXTEND TO NEW POWER SUPPLY
- EXISTING CONDUIT
- EXISTING CONDUIT WITH INTRUSION WIRES
- EXISTING 3/4" CONDUIT WITH 120 VOLT POWER TO FACP
- NEW 3/4" CONDUIT WITH 2 #14 WIRES
- "T" CONDULET
- EXISTING CONDUIT. INSTALL 2 #14 WIRES FOR POWER TO NEW POWER SUPPLY
- PUSHBAR WITH ELECTRIC LOCK (LATCH BOLT TYPE) FASTEN OVER EXISTING MECHANICAL PUSH BAR. INSTALL SURFACE MOUNTED DOOR STRIKE.
- EXISTING CONDUIT WITH INTRUSION DETECTION & DOOR STRIKE WIRING
- NEW 6" X 6" X 4" PULLBOX
- EXISTING 1 1/4" CONDUIT EXTEND TO NEW 6" X 6" X 4" PULLBOX
- REPLACE EXISTING "LB" CONDULET WITH "T" CONDULET PULL EXISTING DOOR STRIKE WIRES TO NEW POWER SUPPLY
- PULL EXISTING WIRING BACK TO NEAREST PULLBOX, CUT CONDUIT & INSTALL "T" CONDULET. ROUTE DOOR STRIKE WIRES INTO NEW POWER SUPPLY. REINSTALL INTRUSION WIRING TO EXISTING DETECTOR.
- EXISTING PULLBOX



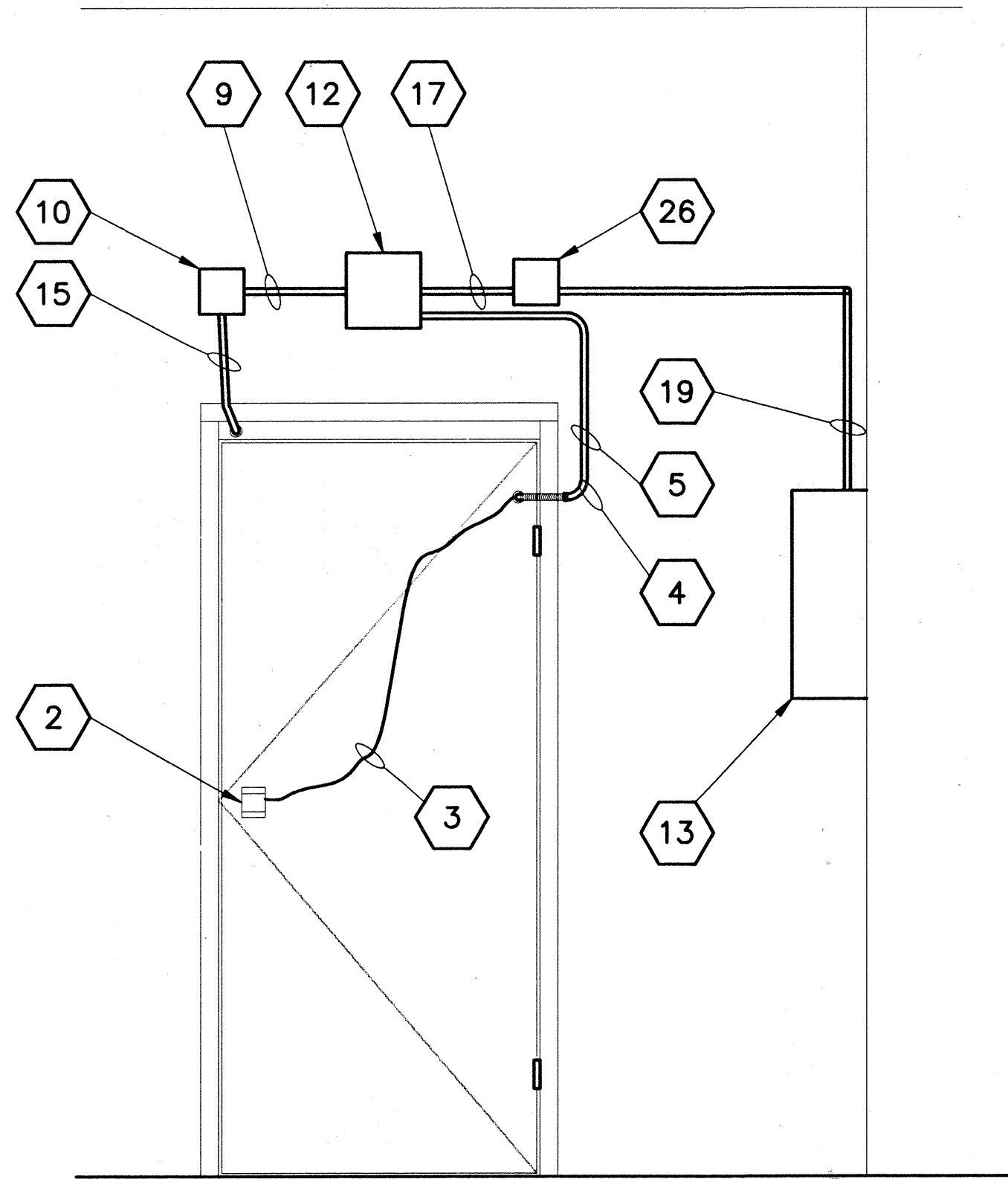
HALAWA IB PORTAL BLDG. - LEVEL 2 1
NTS AT CK 333 LOCATION
LOOKING FROM GRID LINE "C" TOWARDS "D" 7T4R 7T4O



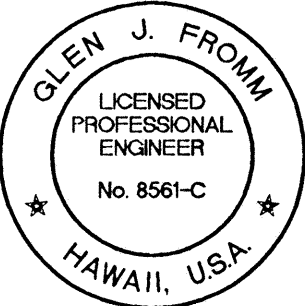
HALAWA IB PORTAL BLDG. - LEVEL 2 2
NTS AT CK 330 LOCATION
LOOKING FROM GRID LINE "C" TOWARDS "B" 7T4R 7T4O



HALAWA IB PORTAL BLDG. - LEVEL 2 3
NTS AT CK 330 LOCATION
LOOKING FROM GRID LINE "6" TOWARDS "5" 7T4R 7T4O



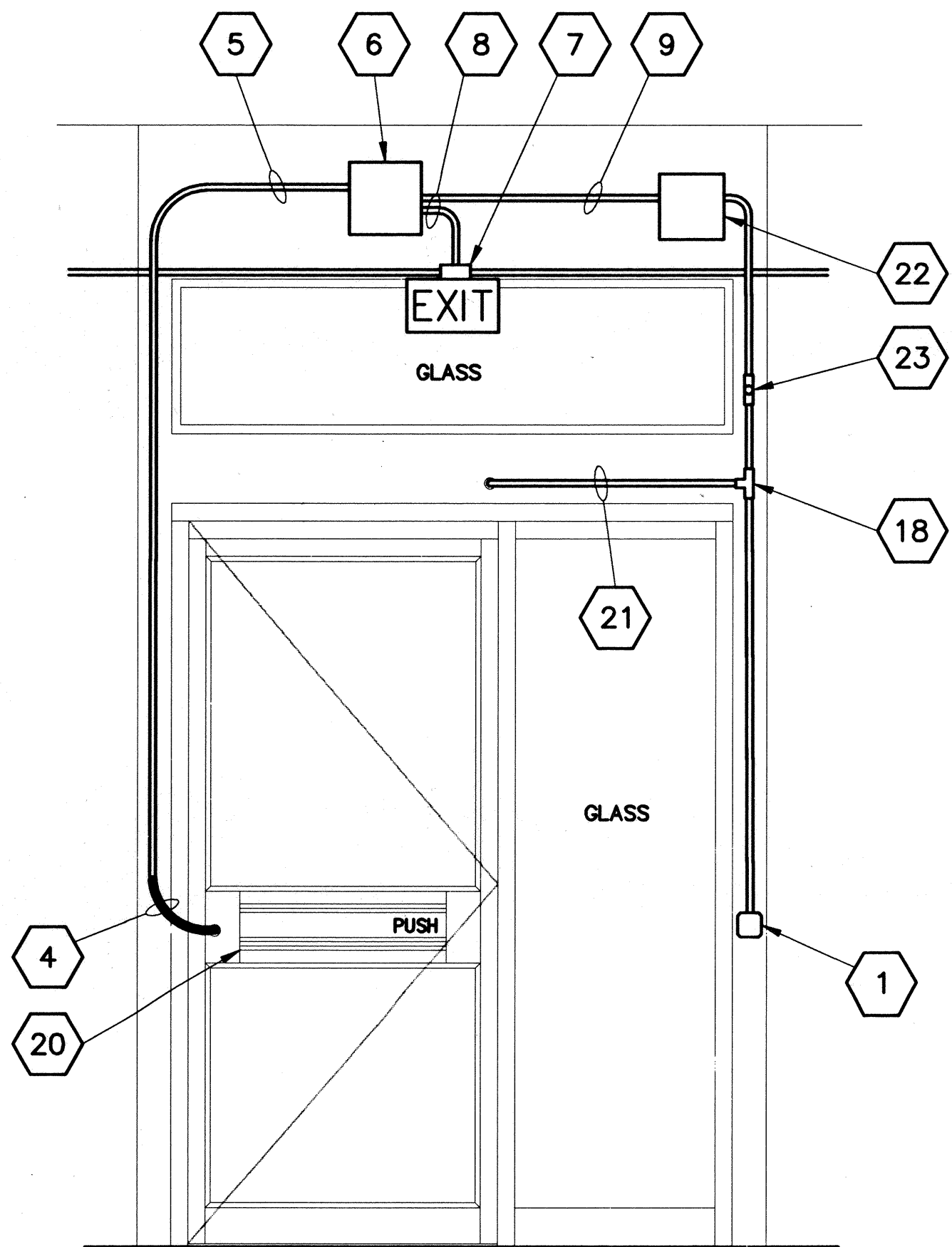
HALAWA OB PORTAL BLDG LEVEL 2 4
NTS AT CK 430 LOCATION
LOOKING FROM GRID LINE "C" TOWARDS "B" 7T4R 7T4O



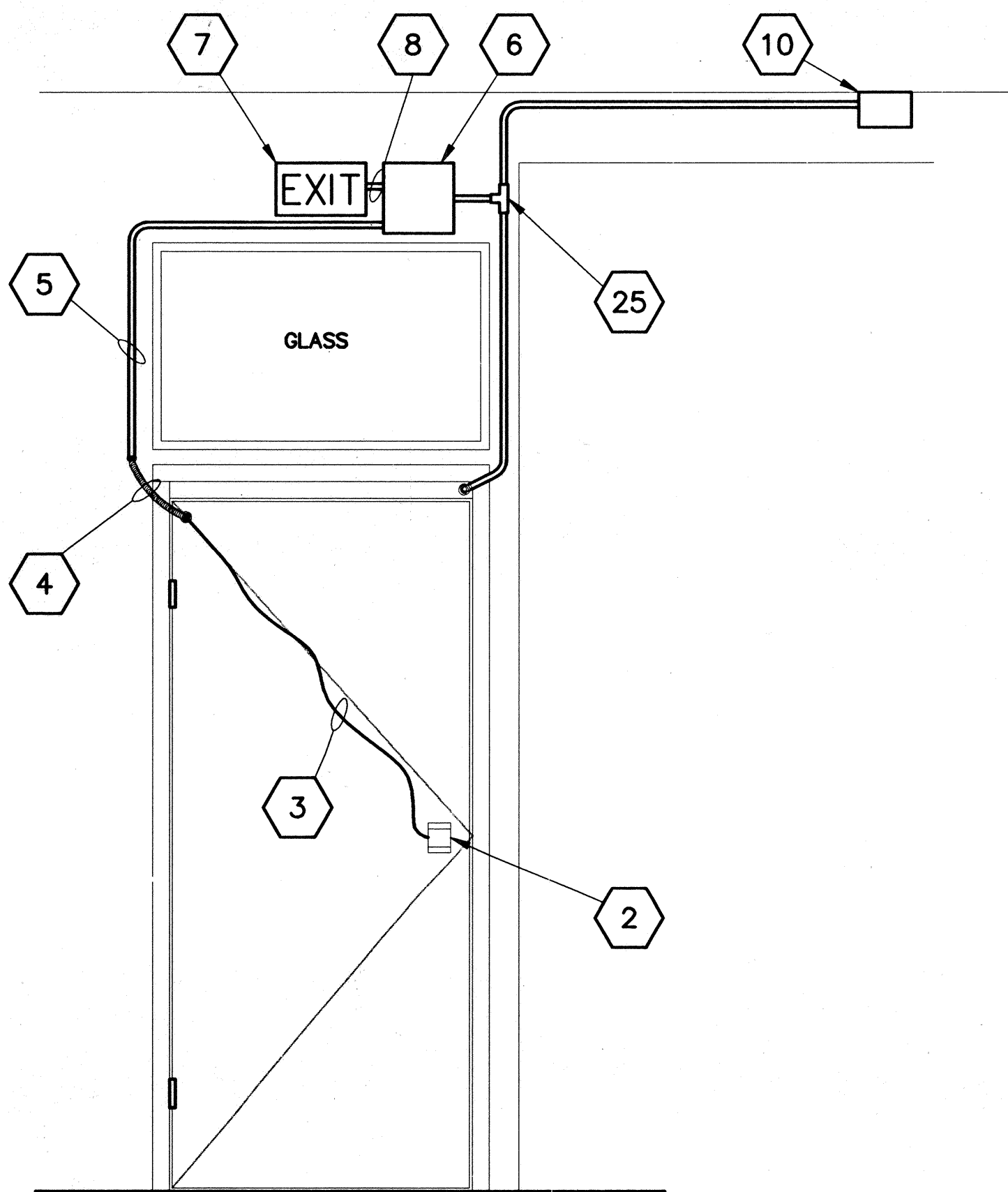
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

DATE	REVISION
5/29/97	DCN 75-019: SHEET ADDED
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DETAILS SYSTEMS EQUIPMENT - 6	
COMMON WORK H-3 FINISH (UNIT III) FAIP NO. I-H3-1(75), UNIT III I. K. TUNNEL/ACCESS ROADS	
SCALE: NONE	DATE: MAY 1997
SHEET NO. 7T4R OF 4 SHEETS	

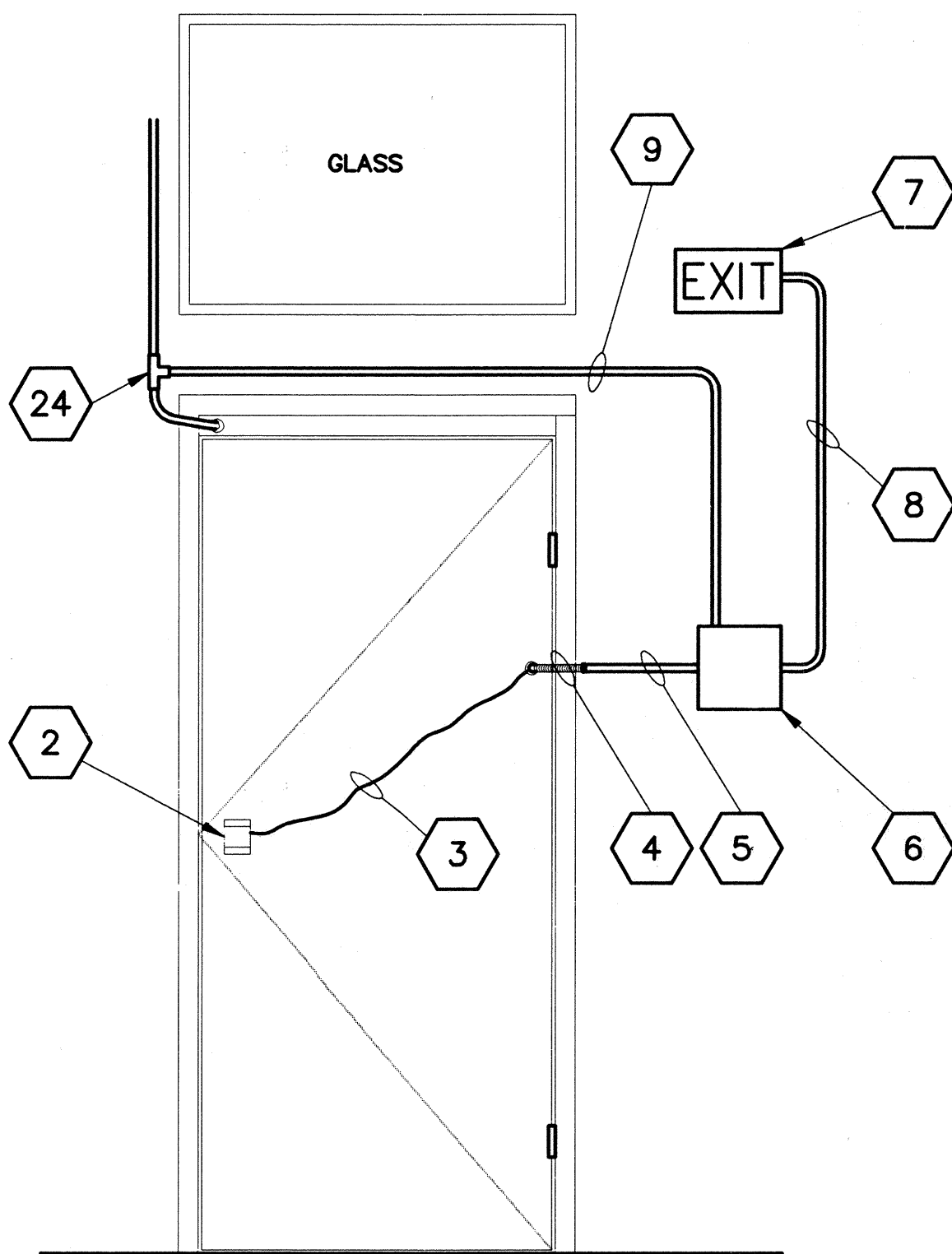
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT III	1994	305 S-19	353



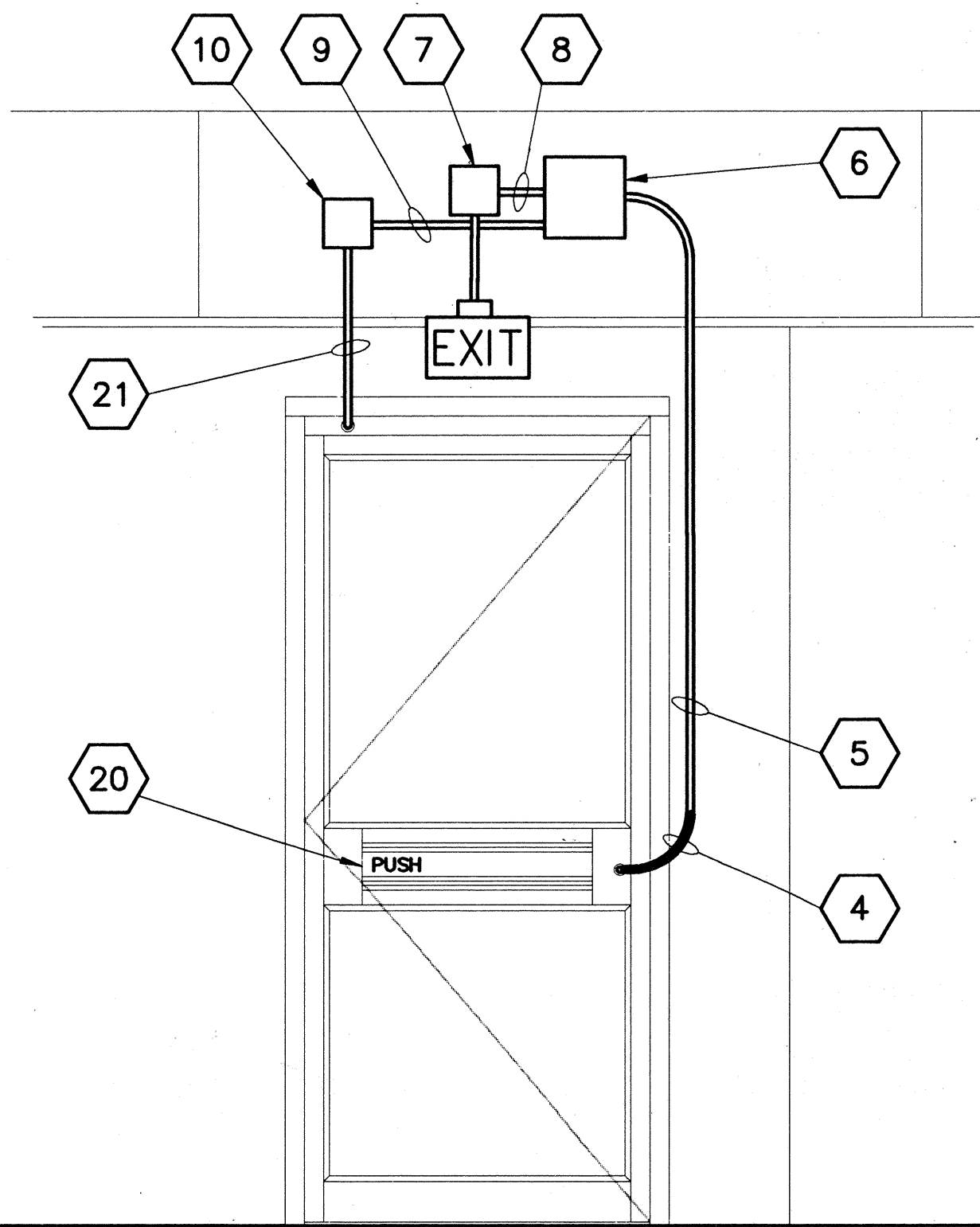
CONTROL BUILDING BACK DOOR
NTS AT CK 249
LOOKING FROM GRID LINE "8" TOWARDS "9"



O & M SHOP
HAIKU OUTBOUND PORTAL BUILDING
NTS AT CK 12028 LOCATION
LOOKING FROM GRID LINE "7" TOWARDS EAST

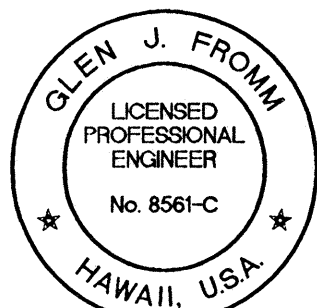


O & M GARAGE
HAIKU INBOUND PORTAL BUILDING
NTS AT CK 13022 LOCATION
LOOKING FROM GRID LINE "2" TOWARDS "1"



O & M OFFICE
HAIKU OUTBOUND PORTAL BUILDING
NTS AT CK 12032
LOOKING FROM GRID LINE "7" TOWARDS EAST

NOTE:
FOR INSTALLATION NOTES SEE SHEET NO. 7T4R



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Signature

5/29/97	DCN75-019: SHEET ADDED
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DETAILS SYSTEMS EQUIPMENT - 7	
COMMON WORK	
H-3 FINISH (UNIT III)	
FAIP NO. I-H3-1(75), UNIT III	
T.K. TUNNEL/ACCESS ROADS	
SCALE: NONE	DATE: MAY 1997
SHEET NO. 7T4S OF 4 SHEETS	

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