

STANDARD PLANS SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1-(73)	1996	2	42

STANDARD PLAN NO.	TITLE	DATE
B-01 •	Notes and Miscellaneous Details	07/01/86
B-02		
B-03 •	Typical Structure Excavation and Backfill Pay Limits	07/01/86
B-04		
B-05		
B-06	Concrete Box Girder	07/01/86
B-07	Concrete Box Girder	07/01/86
B-08	Concrete Box Girder	07/01/86
B-09		
B-10		
B-11		
B-12	Prestressed Concrete Piles	r07/16/90
B-13	Prestressed Concrete Piles	r07/16/90

D-01 •	Chain Link Fence With Toprail	r03/06/87
D-02	Chain Link Fence Without Toprail	r07/26/90
D-03	Wire Fence With Metal Posts	07/01/86
D-04 •	Typical Details of Curbs and/or Gutters	07/01/86
D-05 •	Typical Details of Reinforced Concrete Drop Driveway	07/01/86
D-06	Centerline and Reference Survey Monument	07/01/86
D-07 •	Street Survey Monument	07/01/86
D-08	Landscaping Shrub and Tree Planting	07/01/86
D-09	Field Office	07/01/86
D-10	Field Office	07/01/86
D-11 •	Project Site Laboratory	07/01/86
D-12 •	Project Site Laboratory	07/01/86
D-13	Field Office & Project Site Laboratory	07/01/86

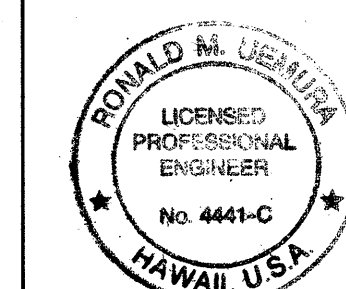
H-01 •	Type A, B, C and D Catch Basin	07/01/86
H-02	Type A1, B1, C1 and D1 Catch Basin	07/01/86
H-03	Type A2, B2, C2 and D2 Catch Basin	07/01/86
H-04 •	Typical Reinforcing Details for Catch Basins	07/01/86
H-05	Type A, B and C Storm Drain Manhole	07/01/86
H-06	Type D and E Storm Drain Manhole	07/01/86
H-07 •	Type F Storm Drain Manhole	07/01/86
H-08 •	Catch Basin and Manhole Casting	07/01/86
H-09	Type A-9 and A-9P Frames and Grates	07/01/86
H-10	Type A-9B Frames and Grates	07/01/86
H-11 •	Type 61614 and 61214 Grated Drop Inlet	07/01/86
H-12	Type 61616 Grated Drop Inlet	07/01/86
H-13 •	61214, 61614 & 61616 Steel Frames and Grates	07/01/86
H-14	61214B Steel Frame and Grates	07/01/86
H-15	61614B Steel Frame and Grates	07/01/86
H-16	Concrete and Cement Rubble Masonry Structures	r10/16/90
H-17	Inlet Structures	r10/16/90
H-18	Flared End Section for Culverts	07/01/86
H-19	Outlet Structures	r02/15/91
H-20	Concrete Spillway Inlet	07/01/86
H-21	18" Slotted C.M.P. Drain	07/01/86
H-22	C.M.P. Coupling Details Standard Joint	r10/16/90
H-23	Hat Shaped Coupling Band	r10/16/90

STANDARD PLAN NO.	TITLE	DATE
TE-01 •	Miscellaneous Sign Details	07/01/86
TE-02 •	Galvanized Flanged Channel Sign Post Mounting	07/01/86
TE-03 •	Galvanized Square Tube Sign Post Mounting	07/01/86
TE-04 •	Regulatory Signs	r09/01/87
TE-05 •	Warning Signs	07/01/86
TE-06 •	Miscellaneous Signs	r11/03/89
TE-07	Reserved	07/01/86
TE-08 •	Construction Signs	r09/01/87
TE-09	Miscellaneous Intersection Signs	r03/06/87
TE-10	Reserved	07/01/86
TE-11	Bike Route Sign and Supplementary Plates	07/01/86
TE-12	State Route Marker and Auxiliary Markers	07/01/86
TE-13	Interstate Route Marker	07/01/86
TE-14	State Route Marker and Border Detail for Guide Signs	07/01/86
TE-15	Route Marker Assemblies	07/01/86
TE-16	Miscellaneous Reflector Markers	07/01/86
TE-17	Type II Object Markers	07/01/86
TE-18	Mileposts	07/01/86
TE-19	Reserved	07/01/86
TE-20	Overhead Sign Supports	07/01/86
TE-21	Overhead Sign Support, Box Truss Type, Aluminum	07/01/86
TE-22	Foundation Details and Schedules	07/01/86
TE-23	Supports for Ground Mounted Guide Sign	r11/03/89
TE-24	Breakaway Sign Supports for Ground Mounted Guide Signs	07/01/86
TE-25	Laminated Aluminum Sign Panels (Overhead)	07/01/86
TE-26	Laminated Aluminum Sign Panels (Ground Mounted)	07/01/86
TE-27	Solid Aluminum Extruded Sign Panel and Accessory Details	07/01/86
TE-28	Guide Signs Luminaire Mountings	07/01/86
TE-29	Reserved	07/01/86
TE-30 •	Raised Pavement Markers and Striping	r05/09/90
TE-31 •	Miscellaneous Pavement Markings	r05/09/90
TE-32 •	Miscellaneous Pavement Markings	r05/09/90
TE-33 •	Miscellaneous Pavement Markings	r11/03/89
TE-34	Reserved	07/01/86
TE-35	Pavement Alphabets, Numbers & Symbols	07/01/86
TE-36 •	Pavement Alphabets, Numbers & Symbols	07/01/86
TE-37	Reserved	07/01/86
TE-38	Traffic Signal System, Miscellaneous Details	r11/03/89
TE-39	Traffic Signal System, Miscellaneous Details	07/01/86
TE-40	Loop Detectors	r11/03/89
TE-41	Pullboxes	07/01/86
TE-42	Type III Traffic Signal Standard	07/01/86
TE-43	Concrete Pullbox (2' x 3')	07/01/86
TE-44	Reserved	07/01/86

STANDARD PLAN NO.	TITLE	DATE
TE-45	Reserved	07/01/86
TE-46	Reserved	07/01/86
TE-47	Reserved	07/01/86
TE-48	Reserved	07/01/86
TE-49	Reserved	07/01/86
TE-50 •	Metal Guardrail	r03/06/87
TE-51 •	Metal Guardrail	r09/01/87
TE-52	Metal Guardrail with Rubrail	r11/03/89
TE-53	Metal Guardrail with Rubrail at Obstruction	r09/01/87
TE-54	Beam Type Guardrail with Rubrail at Obstruction (Shoulder Installation)	r11/03/89
TE-55	Metal Guardrail Connection to Concrete Barrier	r11/03/89
TE-56	Concrete Barrier Transition	07/01/86
TE-57	Guardrail Type 3, Thrie Beam	r11/03/89
TE-57A	Guardrail Type 3, Modified Thrie Beam	11/03/89
TE-58	Approach End Flare, One & Two Way Roadway	07/01/86
TE-59	Trailing End Flare, One & Two Way Roadway	r11/03/89
TE-60	Anchor Block Details	07/01/86
TE-61	Breakaway Cable Terminal (BCT)	r11/03/89
TE-62	Breakaway Cable Terminal (BCT)	r09/01/87
TE-63	Guardrail Type 4 (Rigid Barrier)	r09/01/87
TE-64	Portable Concrete Barrier	r11/03/89
TE-65	Guardrail Type 4, Miscellaneous	r09/01/87
TE-66 •	Barricades	07/01/86
TE-67	Delineation & Pavement Markings at Bridges	07/01/86
TE-68	Wheelchair Ramps	r11/03/89
TE-69	Wheelchair Ramps	r11/03/89

NOTE:
STANDARD PLANS APPLICABLE TO THIS PROJECT ARE INDICATED BY A " • " NEXT TO THE STANDARD PLAN NO. (D-07 •)

DATE	REVISION	REVISION	BY
02/15/91	REVISED STANDARD PLANS H-19		
10/16/90	REVISED STANDARD PLANS H-16, H-17, H-22 & H-23.		
07/26/90	REVISED STANDARD PLANS D-02.		
07/16/90	REVISED STANDARD PLANS B-12, B-13,		
05/09/90	REVISED STANDARD PLANS TE-30, TE-31, & TE-32.		
11/03/89	REVISED STANDARD PLANS TE-06, TE-23, TE-30, TE-31, TE-32, TE-33, TE-38, TE-40, TE-52, TE-54, TE-55, TE-57, TE-59, TE-61, TE-64, TE-68 & TE-69.		
09/01/87	ADDED TE-57A TO STANDARD PLANS		
	REVISED STANDARD PLANS TE-04, TE-06, TE-08, TE-32, TE-51, TE-53, TE-54, TE-55, TE-57, TE-59, TE-62, TE-63, TE-65 & TE-69.		
03/06/87	REVISED STANDARD PLANS D-01, TE-09, TE-40, TE-50, TE-51, TE-57, TE-59, TE-61, TE-63 & TE-64.		



This work was prepared by me or under my supervision.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HALAWA JAIL ACCESS ROAD
STANDARD PLAN SUMMARY
INTERSTATE ROUTE H-3
F.A.I. PROJ. I-H3-1 (73)

SCALE: AS NOTED DATE: APR. 1996
SHEET No. 2 OF 42 SHEETS

DATE: _____
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-(73)	1996	3	42

GENERAL NOTES

- WORK SHALL BE DONE IN ACCORDANCE WITH THE HAWAII STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND PUBLIC WORKS CONSTRUCTION, DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION, 1994 UNLESS OTHERWISE SPECIFIED.
- VERIFY AND CHECK ALL DIMENSIONS, DETAILS, ELEVATIONS AND IMPROVEMENTS SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH THE WORK. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR PROCEDURES.
- RESTORATION OF PAVEMENTS, PAVEMENT MARKERS, PAVEMENT STRIPING, SIGNS, CURBING & ALL OTHER IMPROVEMENTS, UNAVOIDABLY DAMAGED SHALL BE REPAIRED & COST BORNE BY THE CONTRACTOR.
- THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT FOR ALL DAMAGED UTILITIES.
- TOPOGRAPHIC SURVEY PERFORMED BY AUSTIN, TSUTSUMI & ASSOCIATES, INC., PROJECT NO. 0-93-134 E/S, DATED JUNE 1993, REV. FEB. 1994.
- ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE PROTECTED AT ALL TIMES BY THE CONTRACTOR UNLESS OTHERWISE NOTED. ALL DAMAGED PORTIONS SHALL BE REPLACED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE AFFECTED UTILITY COMPANY. PERSONAL INJURY RESULTING FROM CONTACT WITH THE EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADEQUATE, SAFE NON-SKID BRIDGING MATERIAL OVER THE TRENCH, INCLUDING SHORING, WHEN TRENCHING IN PAVEMENT AREAS TO HANDLE ALL TYPES OF VEHICULAR TRAFFIC.
- UTILITIES SHALL BE INSTALLED PURSUANT TO THE PROVISIONS OF ORDINANCE NO. 2875 AS AMENDED BY ORDINANCE NO. 3357 (UNDERGROUND UTILITIES).
- ALL MANHOLES, VALVE BOXES, HANDHOLES, AND STREET MONUMENTS, WHETHER OR NOT SHOWN ON THE PLANS WHICH ARE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION SHALL BE ADJUSTED TO MATCH FINISH GRADE OR RESET.
- THE CONTRACTOR SHALL NOTIFY THE FLEET & INDUSTRIAL SUPPLY CENTER, PEARL HARBOR FUEL DEPARTMENT (474-6011) ONE WEEK IN ADVANCE OF THE PROJECT START DATE.
- THE CONTRACTOR SHALL NOTIFY HAWAIIAN CEMENT, KIRK HASHIMOTO (483-3300) ONE WEEK IN ADVANCE OF THE PROJECT START DATE.

PUBLIC HEALTH SAFETY & CONVENIENCE NOTES

- THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH, SAFETY AND ENVIRONMENTAL QUALITY.
- THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND ITS SURROUNDING AREAS FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH. THE CITY & COUNTY OF HONOLULU OR THE ENGINEER SHALL REQUIRE SUPPLEMENTARY MEASURES IF REQUIRED.
- THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO CHAPTER 43 PUBLIC HEALTH REGULATIONS DEPARTMENT OF HEALTH, STATE OF HAWAII, "COMMUNITY NOISE CONTROL FOR OAHU" IN WHICH MAXIMUM ALLOWABLE NOISE LEVELS HAVE BEEN SET. IF THE CONSTRUCTION WILL BE REQUIRED TO OBTAIN A PERMIT FROM THE DIRECTOR OF THE DEPARTMENT OF HEALTH. THE CONTRACTOR SHALL OBTAIN A COPY OF CHAPTER 43 AND BECOME FAMILIAR WITH THE NOISE LEVEL RESTRICTIONS AND THE PROCEDURES FOR OBTAINING A PERMIT FOR CONSTRUCTION ACTIVITIES. APPLICATION AND INFORMATION ON VARIANCES FROM THE NOISE AND RADIATION BRANCH, DEPARTMENT OF HEALTH, 591 ALA MOANA BLVD., HONOLULU HI 96813 OR BY TELEPHONE (586-4700).

GENERAL UTILITY NOTES

- "UTILITIES" SHALL INCLUDE NEW AND EXISTING WATERLINES, NON-POTABLE WATERLINES, STORM DRAINS, ELECTRICAL AND COMMUNICATIONS SYSTEMS, SEWERS, GAS LINES AND ALL RELATED FACILITIES AND APPURTENANCES.
- PRIOR TO EXCAVATING FOR ANY UTILITY, THE CONTRACTOR SHALL VERIFY IN THE FIELD THE LOCATIONS OF ALL EXISTING UTILITIES AFFECTED BY THE PROPOSED WORK. THE CONTRACTOR SHALL NOTIFY THE VARIOUS AGENCIES CONCERNED AS NOTED HEREIN.
- THE CONTRACTOR SHALL TONE, EXPOSE AND VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AT ALL CROSSING AND CONNECTION POINT BEFORE BEGINNING EXCAVATION OF ANY NEW LINES.
- EXCAVATION TO EXPOSE EXISTING UTILITIES SHALL BE CARRIED OUT BY HAND.
- ADJUSTMENTS TO THE ALIGNMENTS OR GRADES OF PROPOSED UTILITIES MAY BE REQUIRED DUE TO UNFORESEEN CONFLICTS OR DISCREPANCIES. IN THE EVENT THAT ADJUSTMENTS ARE FOUND TO BE NECESSARY. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER WHO WILL DETERMINE THE NECESSARY ADJUSTMENTS.

DRAINAGE SYSTEM NOTES

- EXCEPT AS OTHERWISE SPECIFIED, THE STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION DATED SEPTEMBER 1984 AND STANDARD PLANS OF THE STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION, H-01 TO H-23, INCLUSIVE DATED JULY 1, 1986, AS AMENDED, ARE APPLICABLE TO THIS PROJECT.

WATER NOTES FOR RECONSTRUCTION OF ROADWAYS

- UNLESS OTHERWISE SPECIFIED, ALL MATERIALS AND CONSTRUCTION OF WATER SYSTEM FACILITIES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CITY AND COUNTY OF HONOLULU BOARD OF WATER SUPPLY'S "WATER SYSTEM STANDARDS", VOLUME 1, DATED 1985, THE "APPROVED MATERIAL LIST AND STANDARD DETAILS FOR WATER SYSTEM CONSTRUCTION", VOLUME 2, DATED 1985, THE "WATER SYSTEM EXTERNAL CORROSION CONTROL STANDARDS", VOLUME 3, DATED 1991, AND ALL SUBSEQUENT AMENDMENTS AND ADDITIONS.
- ALL PLANS APPROVED BY THE BWS ARE BASED SOLELY ON THE ADEQUACY OF THE WATER SUPPLY. ALL OTHER FEATURES OF THE WATER SYSTEM, SUCH AS LINES, GRADES, FITTINGS, DRAINAGE, ETC., AND OTHER FEATURES OF IMPROVEMENTS SHALL NOT BE THE RESPONSIBILITY OF THE BOARD OF WATER SUPPLY.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES AS SHOWN ON THE PLANS ARE FROM THE LATEST AVAILABLE DATA BUT ARE NOT GUARANTEED AS TO THE ACCURACY OR THE ENCOUNTERING OF OTHER OBSTACLES DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL PAY FOR ALL THE DAMAGES TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOT ASSUME, THAT WHERE NO UTILITIES ARE SHOWN, THAT NONE EXIST.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL WATER LINES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE ESPECIALLY CAREFUL WHEN EXCAVATING BEHIND WATER LINES, TEES AND BENDS WHEREVER THERE IS A POSSIBILITY OF WATER LINE MOVEMENT DUE TO THE REMOVAL OF THE SUPPORTING EARTH BEYOND THE EXISTING REACTION BLOCKS. THE CONTRACTOR SHALL TAKE WHATEVER MEASURE NECESSARY TO PROTECT THE WATER LINES, SUCH AS CONSTRUCTING SPECIAL REACTION BLOCKS (WITH BWS APPROVAL) AND/OR MODIFYING HIS CONSTRUCTION METHOD.
- RE-APPROVAL SHALL BE REQUIRED IF THIS PROJECT IS NOT UNDER CONSTRUCTION WITHIN A PERIOD OF TWO YEARS.
- THE CONTRACTOR SHALL NOTIFY THE BOARD OF WATER SUPPLY PLANNING AND ENGINEERING DIVISION, CONSTRUCTION SECTION, ONE WEEK PRIOR TO COMMENCING WORK ON THE WATER SYSTEM.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING SERVICE LATERAL LOCATIONS WHETHER SHOWN OR NOT SHOWN ON PLANS PRIOR TO COMMENCING WITH ANY OF THE WORK AND SHALL NOT ASSUME THAT WHERE NO SERVICES ARE SHOWN NONE EXIST.

- THE CONTRACTOR SHALL ADJUST ALL MANHOLE FRAMES/VALVE BOXES WITHIN THE RESURFACED AREA. PRIOR TO RESURFACING, BWS WILL INITIALLY LOCATE ALL WATER MANHOLES/VALVE BOXES THAT WILL REQUIRE ADJUSTMENTS. THE CONTRACTOR SHALL THEN BE RESPONSIBLE FOR "REFERENCING" THESE MANHOLES/VALVE BOXES TO FACILITATE THE ADJUSTMENTS. THE COST FOR ADJUSTMENTS SHALL BE MADE AT THEIR RESPECTIVE UNIT PRICES IN THE BID BASED ON THE ACTUAL NUMBER ADJUSTED. COST FOR REFERENCING SHALL BE INCIDENTAL AND SHALL NOT BE PAID FOR DIRECTLY. ANY ADDITIONAL REQUEST TO BWS TO AGAIN LOCATE THE MANHOLES/VALVE BOXES SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR. (BWS WILL CHARGE AND BILL THE CONTRACTOR FOR ALL COST FOR SAID ADDITIONAL WORK.)
- ANY ADJUSTMENTS TO THE EXISTING WATER SYSTEM REQUIRED DURING CONSTRUCTION TO MEET REQUIREMENTS OF BWS STANDARDS, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE DONE BY THE CONTRACTOR AT NO COST TO THE BOARD.
- PRIOR TO ANY EXCAVATING, THE CONTRACTOR SHALL VERIFY IN THE FIELD THE LOCATION OF EXISTING WATER MAINS AND APPURTENANCES.

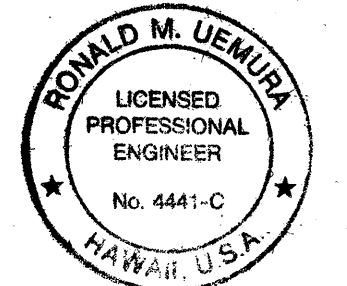
EXISTING	DESCRIPTION	PROPOSED
	OBJECT TO BE REMOVED	
	CHAIN LINK FENCE	
	BORING LOCATION	
	CONCRETE	
	CONTOUR	
	EDGE OF PAVEMENT	
	PROPERTY LINE	
	DIRECTION OF OVERLAND FLOW	
	SILT FENCE	

GENERAL NOTES

12. THE CONTRACTOR SHALL NOTIFY ABE PACHECO, DEPARTMENT OF CORRECTIONS, (486-2600 EXT. 226) ONE WEEK IN ADVANCE OF PROJECT START DATE.

ABBREVIATIONS

&	AND	LT	LEFT
@	AT	MAX	MAXIMUM
#	NUMBER	MH	MANHOLE
A.C.	ASPHALTIC CONCRETE	MIN	MINIMUM
AGGR.	AGGREGATE	MON	MONUMENT
AWG	AMERICAN WIRE GAUGE	NEC	NATIONAL ELECTRIC CODE
APPROX.	APPROXIMATE(LY)	NIC	NOT IN CONTRACT
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	NTS	NOT TO SCALE
BL	BASELINE	NO	NUMBER
BM	BENCH MARK	O/S	OFF SET
BOC	BACK OF CURB	OH	OVERHEAD
BOW	BACK OF WALK	OC	ON CENTER
BVC	BEGIN VERTICAL CURVE	PAV'T	PAVEMENT
C	CUT	PCV	POINT OF CURVATURE
Ch	CHORD	PCC	PORTLAND CEMENT CONCRETE
CL	CENTERLINE	PI	POINT OF INTERSECTION
CLF	CHAIN LINK FENCE	PL	PROPERTY LINE
CLR	CLEAR	PP	POWER POLE
CONC	CONCRETE	PT	POINT OF TANGENCY
CONN	CONNECTION	PVC	POLYVINYL CHLORIDE
CU	CUBIC	R	RADIUS
CY	CUBIC YARD	RD	ROAD
DEMO	DEMOLITION	REFL	REFLECTING
DET	DETAIL	REINF	REINFORCING/REINFORCED
DI	DRAIN INLET	REQ'D	REQUIRED
DL	DRAIN LINE	RT	RIGHT
EC	EROSION CONTROL	R/W	RIGHT OF WAY
EF	EACH FACE	S	SLOPE
ELEC	ELECTRICAL	SCH/SCHD	SCHEDULE
ELEV.	ELEVATION	SDMH	STORM DRAIN MANHOLE
EMB	EMBANKMENT	SDOT	STATE DEPARTMENT OF TRANSPORTATION
EVC	END VERTICAL CURVE	SHT	SHEET
EW	EACH WAY	SMH	SEWER MANHOLE
EXC	EXCAVATE, EXCAVATION	ST	STREET
EXIST/EXST	EXISTING	STA	STATION
F	FILL	STD	STANDARD
FC	FOOT CANDLE	ST.LT.BOX	STREET LIGHT BOX
FH	FIRE HYDRANT	T&B	TOP & BOTTOM
FND	FOUND	TOF	TOP OF FOOTING
FT	FOOT/FEET	TOW	TOP OF WALL
FWY	FREEWAY	TYP	TYPICAL
GA	GUYED ANCHOR	U/G	UNDERGROUND
GALV.	GALVANIZED	UNO	UNLESS NOTED OTHERWISE
GC	GALLON CAN	V	VERTICAL/VOLT
H/HORIZ	HORIZONTAL	VC	VERTICAL CURVE
HECO	HAWAIIAN ELECTRIC COMPANY	VERT	VERTICAL
HTCO	HAWAIIAN TELEPHONE COMPANY	W/	WITH
HGL	HYDRAULIC GRADE LINE	WM	WATER METER
IES	ILLUMINATION ENGINEERS SOCIETY	WMH	WATER MANHOLE
INV	INVERT	WP	WEATHER PROOF
JP	JOINT POLE	WWF	WELDED WIRE FABRIC
KV	KILO VOLT	WV	WATER VALVE
Lc	LENGTH OF CURVE	CMP	CORRUGATED METAL PIPE
LF	LINEAL FEET	RCP	REINFORCED CONCRETE PIPE
LP	LIGHT POLE		



This work was prepared by me or under my supervision and construction of this project will be under my observation.
Ronald M. Uemura

APPROVED:

for J. M. Waters 2/15/96
CHIEF, PLANNING & ENGINEERING, B.W.S. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HALAWA JAIL ACCESS ROAD
GENERAL NOTES AND ABBREVIATIONS
INTERSTATE ROUTE H-3
F.A.I. PROJ. I-H3-1 (73)

SCALE: NONE DATE: APR. 1996
SHEET No. 3 OF 42 SHEETS

DATE: _____
SURVEY PLOTTED BY: _____
DRAWN BY: _____
CHECKED BY: _____
NOTE BOOK: _____
QUANTITIES BY: _____

**NOTES FOR CONSTRUCTION WITHIN STATE
RIGHT-OF-WAY**

- THE CONTRACTOR SHALL OBTAIN A CONSTRUCTION PERMIT FROM THE STATE'S HIGHWAY ENGINEER AT 869 PUNCHBOWL STREET, HONOLULU, HAWAII PRIOR TO COMMENCEMENT OF WORK WITHIN STATE HIGHWAY RIGHT-OF-WAY.
- CONSTRUCTION AND RESTORATION OF ALL EXISTING HIGHWAY FACILITIES WITHIN STATE RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE CURRENT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AND THE "SPECIFICATIONS FOR INSTALLATION OF MISCELLANEOUS IMPROVEMENTS WITHIN STATE HIGHWAYS", OF THE STATE HIGHWAYS DIVISION.
- ALL LANES SHALL BE OPENED TO TRAFFIC DURING THE MORNING PEAK HOURS FROM 6:00 A.M. TO 8:30 A.M. AND DURING THE AFTERNOON PEAK HOURS FROM 3:30 P.M. TO 5:30 P.M., AND DURING OFF-WORK HOURS. ONLY ONE LANE OF MOANALUA FREEWAY SHALL BE CLOSED AT ANY OTHER TIME.
- THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES, AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION AND FOR THE CONVENIENCE AND SAFETY OF PUBLIC TRAFFIC. ALL SUCH PROTECTIVE FACILITIES AND PRECAUTIONS TO BE TAKEN SHALL CONFORM WITH THE "ADMINISTRATIVE RULES OF HAWAII GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORK SITES ON OR ADJACENT TO PUBLIC STREETS AND HIGHWAYS" ADOPTED BY THE DIRECTOR OF TRANSPORTATION, AND THE CURRENT U.S. FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PART VI - TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS". IF LANE CLOSURES ARE REQUIRED DURING CONSTRUCTION, A TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AND MUST BE APPROVED BY THE DIVISION PRIOR TO THE ISSUANCE OF THE PERMIT.
- THE MINIMUM PAVEMENT STRUCTURE FOR DRIVEWAYS, SIDEROADS AND UTILITY INSTALLATIONS ON MINOR HIGHWAYS SHALL CONSIST OF:
 - 2-1/2" ASPHALT CONCRETE MIX 4, 8" AGGREGATE BASE COURSE AND 12" AGGREGATE SUBBASE, OR 2-1/2" ASPHALT CONCRETE MIX 4 AND 8" ASPHALT CONCRETE BASE OR ASPHALT CONCRETE.
 - 6" OF CLASS "A" CONCRETE REINFORCED WITH 6X6-W2.9XW2.9 WELDED WIRE MESH ON 12" AGGREGATE SUBBASE IF DEEMED NECESSARY BY THE ENGINEER.
- NO MATERIAL AND/OR EQUIPMENT SHALL BE STOCKPILED OR OTHERWISE STORED WITHIN HIGHWAY RIGHTS-OF-WAY EXCEPT AT LOCATIONS DESIGNATED IN WRITING AND APPROVED BY THE ENGINEER.
- COMPACTION TESTS SHALL BE TAKEN IN ACCORDANCE WITH THE SPECIFICATIONS FOR INSTALLATION OF MISCELLANEOUS IMPROVEMENTS WITHIN STATE HIGHWAYS, AS FOLLOWS:
 - SUBBASE: ONE (1) COMPACTION TEST FOR EACH 300 LINEAL FEET OF ROADWAY OR FRACTION THEREOF.
 - BASE COURSE: ONE (1) COMPACTION TEST FOR EACH 200 LINEAL FEET OF ROADWAY OR FRACTION THEREOF.
 - ONE (1) COMPACTION TEST FOR EACH 500 LINEAL FEET OF TRENCH.
- PRIOR TO COMMENCING TRENCH EXCAVATION WORK, THE CONTRACTOR SHALL TAKE A PROFILE ALONG THE NEW CENTERLINE OF UTILITY TRENCH AND THAT INFORMATION SHALL BE USED IN THE VERIFICATION OF RESTORING THE ROADWAY TO ITS ORIGINAL CONDITION. A COPY OF THE PROFILE SHALL BE SUBMITTED TO THE ENGINEER.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADEQUATE, SAFE, NON-SKID BRIDGING MATERIAL OVER THE TRENCH, INCLUDING SHORING, WHEN TRENCHING IN PAVEMENT AREAS TO HANDLE ALL TYPES OF VEHICULAR TRAFFIC.
- NO TRENCH SHALL BE OPENED MORE THAN 200 FEET IN ADVANCE OF THE INSTALLED AND TESTED PIPE AND/OR DUCTLINE.
- LONGITUDINAL DRAINAGE ALONG THE HIGHWAY SHALL BE MAINTAINED.
- PAVEMENT STRIPING SHALL BE DONE BY THE CONTRACTOR.

- APPROVAL OF PERMIT CONSTRUCTION PLANS SHALL BE VALID FOR A PERIOD OF ONE YEAR THEREOF FROM THE DATE OF NOTIFICATION OF APPROVAL TO THE APPLICANT. IN THE EVENT CONSTRUCTION DOES NOT COMMENCE WITHIN THIS ONE YEAR PERIOD, THE APPLICANT WILL BE REQUIRED TO RESUBMIT HIS CONSTRUCTION PLANS FOR DIVISION'S REVIEW AND APPROVAL.
- ALL REGULATORY, GUIDE AND CONSTRUCTION SIGNS AND BARRICADES SHALL BE OF HIGH INTENSITY SHEETING.
- CONTRACTOR SHALL INFORM THE STATE PERMIT OFFICE (831-6712) AT LEAST TWO (2) DAYS PRIOR TO CLOSING ANY LANES.
- DRIVEWAYS SHALL BE KEPT OPEN UNLESS THE OWNERS OF THE PROPERTY USING THESE RIGHTS-OF-WAY ARE OTHERWISE PROVIDED FOR SATISFACTORILY.
- WHERE PEDESTRIAN WALKWAYS EXIST, THEY SHALL BE MAINTAINED IN PASSABLE CONDITION OR OTHER FACILITIES FOR PEDESTRIANS SHALL BE PROVIDED. PASSAGE BETWEEN WALKWAYS AT INTERSECTIONS SHALL LIKEWISE BE PROVIDED.
- THE CONTRACTOR SHALL REFERENCE TO THE SATISFACTION OF THE ENGINEER, ALL EXISTING TRAFFIC SIGNS, POSTS AND PAVEMENT MARKINGS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNS, POSTS AND PAVEMENT MARKINGS DISTURBED BY HIS ACTIVITIES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER OR HIS REPRESENTATIVE.
- THE CONTRACTOR SHALL EXERCISE CARE WHEN EXCAVATING IN THIS AREA. DAMAGES TO THE EXISTING FACILITIES SHALL BE IMMEDIATELY REPORTED TO THE RESPECTIVE UTILITY COMPANY, CITY, OR STATE AGENCY. THE REPAIR WORK SHALL BE DONE AT NO ADDITIONAL COST TO THE STATE.
- THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE HIGHWAY LIGHTING AND TRAFFIC SIGNAL SUPERVISOR, SDOT, THREE (3) WORKING DAYS PRIOR TO COMMENCING WORK IN THIS AREA (831-6712).

**GENERAL NOTES FOR TRAFFIC CONTROL PLAN FOR
WORK IN THE STATE RIGHT-OF-WAY**

- TRAFFIC CONES AND DELINEATORS SHALL BE A MINIMUM OF 18 INCHES IN HEIGHT WITH A BROADENED BASE AND MAY BE MADE OF VARIOUS MATERIALS TO WITHSTAND IMPACT WITHOUT DAMAGE TO THEMSELVES OR TO VEHICLES. TWENTY-EIGHT INCHES SHOULD BE THE MINIMUM HEIGHT OF CONES DURING HOURS OF DARKNESS.
- TRAFFIC CONES AND DELINEATORS SHALL BE REFLECTORIZED OR EQUIPPED WITH LIGHTING DEVICES FOR MAXIMUM VISIBILITY DURING NIGHT TIME USE.
- REFLECTORIZATION OF TUBULAR MARKERS SHALL BE A MINIMUM OF TWO, THREE-INCH-WIDE WHITE BANDS PLACED MAXIMUM OF 2 INCHES FROM THE TOP WITH A MAXIMUM OF 6 INCHES BETWEEN THE BANDS. REFLECTORIZATION OF CONES SHALL BE PROVIDED BY A MINIMUM OF 6-INCH WIDE BAND PLACED A MINIMUM OF 3 INCHES BUT NO MORE THAN 4 INCHES FROM THE TOP. WHEN THE 28-INCH OR LARGER SIZE CONES ARE USED THE STANDARD 6-INCH BAND SHALL BE SUPPLEMENTED WITH AN ADDITIONAL 4-INCH WHITE BAND SPACED A MINIMUM OF 2 INCHES BELOW THE 6-INCH BAND.
- TRAFFIC CONTROL DEVICES SHALL BE INSTALLED SUCH THAT THE SIGN OR DEVICE FARTHEST FROM THE WORK AREA SHALL BE PLACED FIRST. THE OTHERS SHALL THEN BE PLACED PROGRESSIVELY TOWARD THE WORK AREA.
- REGULATORY AND WARNING SIGNS WITHIN THE CONSTRUCTION ZONE THAT ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLANS SHALL BE REMOVED OR COVERED. ALL SIGNS OTHER THAN THOSE REQUIRED TO BE REMOVED SHALL BE RESTORED UPON COMPLETION OF THE WORK.
- ALL TRAFFIC LANES SHALL BE A MINIMUM OF 12 FEET WIDE.
- ALL CONSTRUCTION WARNING SIGNS SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE MESSAGE IS NOT APPLICABLE OR NOT IN USE.
- AT THE END OF EACH DAY'S WORK OR AS SOON AS THE WORK IS COMPLETED, THE PERMITTEE SHALL REMOVE ALL TRAFFIC CONTROL DEVICES NO LONGER NEEDED TO PERMIT FREE AND SAFE PASSAGE OF PUBLIC TRAFFIC. REMOVAL SHALL BE IN REVERSE ORDER OF INSTALLATION.

- PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE. TEMPORARY MARKINGS SHALL BE USED AS NECESSARY.
- REPLACE EXISTING FADED OR OBLITERATED PAVEMENT MARKINGS THAT ARE NECESSARY FOR SAFE TRAFFIC FLOW IN THE CONSTRUCTION AREA WITH TEMPORARY OR PERMANENT MARKINGS BEFORE OPENING THE ROADWAY TO THE PUBLIC EACH DAY.

**GENERAL NOTES FOR TRAFFIC CONTROL PLAN
FOR WORK ON CITY AND COUNTY STREETS**

- THE PERMITTEE SHALL MAKE MINOR ADJUSTMENTS AT INTERSECTIONS, DRIVEWAYS, BRIDGES, STRUCTURES, ETC., TO FIT FIELD CONDITIONS.
- CONES OR DELINEATORS SHALL BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
- TRAFFIC CONTROL DEVICES SHALL BE INSTALLED SUCH THAT THE SIGN OR DEVICE FARTHEST FROM THE WORK AREA SHALL BE PLACED FIRST. THE OTHERS SHALL THEN BE PLACED PROGRESSIVELY TOWARD THE WORK AREA.
- REGULATORY AND WARNING SIGNS WITHIN THE CONSTRUCTION ZONE THAT ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLANS SHALL BE REMOVED OR COVERED. ALL SIGNS SHALL BE RESTORED UPON COMPLETION OF THE WORK.
- FLAGGERS AND/OR POLICE OFFICERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
- WHEN REQUIRED BY THE ISSUING OFFICE, THE PERMITTEE SHALL INSTALL A FLASHING ARROW SIGNAL AS SHOWN ON THE TRAFFIC CONTROL PLANS.
- ALL TRAFFIC LANES SHALL BE A MINIMUM OF 12 FEET WIDE.
- ALL CONSTRUCTION WARNING SIGNS SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE MESSAGE IS NOT APPLICABLE OR NOT IN USE.
- THE BACKS OF ALL SIGNS USED FOR TRAFFIC CONTROL SHALL BE APPROPRIATELY COVERED TO PRECLUDE THE DISPLAY OF INAPPLICABLE SIGN MESSAGES (I.E., WHEN SIGNS HAVE MESSAGES ON BOTH FACES).
- AT THE END OF EACH DAY'S WORK OR AS SOON AS THE WORK IS COMPLETED, THE PERMITTEE SHALL REMOVE ALL TRAFFIC CONTROL DEVICES NO LONGER NEEDED TO PERMIT FREE AND SAFE PASSAGE OF PUBLIC TRAFFIC. REMOVAL SHALL BE IN THE REVERSE ORDER OF INSTALLATION. REPLACE EXISTING FADED OR OBLITERATED PAVEMENT MARKINGS THAT ARE NECESSARY FOR SAFE TRAFFIC FLOW IN THE CONSTRUCTION AREA WITH TEMPORARY OR PERMANENT MARKINGS BEFORE OPENING THE ROADWAY TO PUBLIC TRAFFIC EACH DAY.
- REPLACE PERMANENT PAVEMENT MARKINGS AND TRAFFIC SIGNS UPON COMPLETION OF EACH PHASE OF WORK.

**TRAFFIC NOTES FOR WORK ON CITY AND
COUNTY STREETS**

- A PERMIT SHALL BE OBTAINED FROM THE DEPARTMENT OF TRANSPORTATION SERVICES BEFORE WORK ON ANY PORTION OF A PUBLIC STREET OR HIGHWAY MAY BEGIN.
- THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN ALL NECESSARY SIGNS AND OTHER PROTECTIVE FACILITIES, WHICH SHALL CONFORM WITH THE "HAWAII ADMINISTRATION RULES GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORK SITES ON OR ADJACENT TO PUBLIC STREET AND HIGHWAYS" ADOPTED BY THE DIRECTOR OF TRANSPORTATION, AND THE CURRENT U.S. FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROLS FOR STREET AND HIGHWAYS, PART VI - TRAFFIC CONTROLS FOR STREET AND HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS."
- WORK ON ANY CITY STREET AREA MAY BE PERFORMED ONLY BETWEEN THE HOURS OF 8:30 A.M. TO 3:30 P.M., MONDAY THROUGH FRIDAY, UNLESS OTHERWISE PERMITTED BY THE DEPARTMENT OF TRANSPORTATION SERVICES.
- DURING WORKING HOURS, THE CONTRACTOR SHALL PROVIDE TWO LANES FOR THROUGH TRAFFIC. ON STREETS TOO NARROW TO MAKE THIS PRACTICABLE, THE CONTRACTOR MAY WORK IN ONE HALF THE ROADWAY, KEEPING THE ONE LANE OPEN TO TRAFFIC AND ALTERNATING THE FLOW OF TRAFFIC. DURING NON-WORKING HOURS, ALL TRENCHES SHALL BE COVERED WITH A SAFE NON-SKID BRIDGING MATERIAL AND ALL LANES SHALL BE OPEN TO TRAFFIC.
- AS REQUIRED BY THE DEPARTMENT OF TRANSPORTATION SERVICES, THE CONTRACTOR SHALL PROVIDE OFF-DUTY POLICE OFFICERS TO CONTROL THE FLOW OF TRAFFIC.
- WHERE PEDESTRIAN WALKWAYS EXIST, THEY SHALL BE MAINTAINED IN PASSABLE CONDITION OR OTHER FACILITIES FOR PEDESTRIANS SHALL BE PROVIDED. PASSAGE BETWEEN WALKWAYS AT INTERSECTIONS SHALL LIKEWISE BE PROVIDED.
- DRIVEWAYS SHALL BE KEPT OPEN UNLESS THE OWNERS OF THE PROPERTY USING THESE RIGHTS-OF-WAY ARE OTHERWISE PROVIDED FOR SATISFACTORILY.
- THE CONTRACTOR SHALL REFERENCE, TO THE APPROVAL OF THE DEPARTMENT OF TRANSPORTATION SERVICES, ALL EXISTING TRAFFIC SIGNS, POSTS AND PAVEMENT MARKINGS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNS, POSTS, AND PAVEMENT MARKINGS DISTURBED BY HIS ACTIVITIES. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF TRANSPORTATION SERVICES AT 523-4029 ONE (1) WEEK PRIOR TO ANY WORK TO BE DONE ON SIGNS, POSTS, AND PAVEMENT MARKINGS.
- NO MATERIAL AND/OR EQUIPMENT SHALL BE STOCKPILED OR OTHERWISE STORED WITHIN THE STREET RIGHT-OF-WAY EXCEPT AT LOCATIONS DESIGNATED IN WRITING AND APPROVED BY THE DEPARTMENT OF TRANSPORTATION SERVICES.

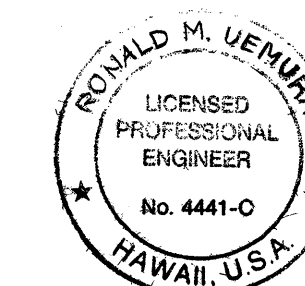
~~10. THE CONTRACTOR SHALL ENSURE THAT THE CONSTRUCTION TRAFFIC CONTROL DEVICES ARE INSTALLED IN ACCORDANCE WITH THE MUTED AND HAWAII ADMINISTRATION RULES AS SPECIFIED IN TRAFFIC NOTE #2.~~

10. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE MUTED AND HAWAII ADMINISTRATION RULES AS SPECIFIED IN TRAFFIC NOTE #2.

APPROVED:

CHIEF, TRANSPORTATION MANAGEMENT DIVISION, D.T.S. DATE
CITY & COUNTY OF HONOLULU
(FOR WORK WITHIN CITY RIGHT-OF-WAY ONLY)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1-(73)	1996	4	42



This work was prepared by me or under my supervision and construction of this project will be under my observation.

Ronald M. Uehara

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HALAWA JAIL ACCESS ROAD

GENERAL NOTES
INTERSTATE ROUTE H-3
F.A.I. PROJ. I-H3-1 (73)

SCALE: NONE DATE: APR. 1996
SHEET No. 4 OF 42 SHEETS

DATE: _____
SURVEY PLOTTED BY: _____
DRAWN BY: _____
CHECKED BY: _____
ORIGINAL PLAN NO. _____
NO. _____