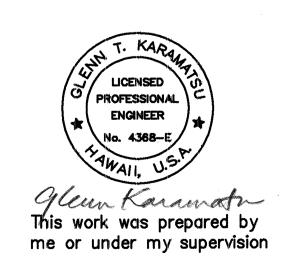
	·		ELECTRICAL	SYMBO	<u>DLS</u>		
Sì	SYMBOL			SYMBOL			
EXIST	NEW	DESCRIPTION	REMARKS	EXIST NEW		DESCRIPTION	REMARKS
		UTILITY POLE, WOOD, JOINT USAGE BY HECo., HTCo., OCEANIC CABLEVISION,			B	BASELINE	
UP # 7		AND CITY & COUNTY STREET LIGHT			¢	CENTERLINE	
		POLE PROVIDED BY HECO, UNLESS OTHERWISE NOTED. POLE NUMBER INDICATED.		manus (Arbanos manus manus (Arbanos manus Arbanos manus Ar	С	COMMUNICATIONS	
盃		HECO POLE-TOP TRANSFORMER		СВ		CATCH BASIN	ana (danamakana kitamatana danamakana kitamatana kitamatana kitamatana danamatana danamatana da danamatana d
<u> </u>		UTILITY POLE, WOOD, BY HECo,			C&C	CITY AND COUNTY OF HONOLULU	
		UNLESS OTHERWISE NOTED.			DTS	DEPARTMENT OF TRANSPORTATION SERVICES	
		STREET LIGHT			ЕНН	ELECTRIC HANDHOLE	
		TRAFFIC LIGHT POLE, TYPE II TRAFFIC SIGNAL HEAD—RED, YELLOW,			EVP	EMERGENCY VEHICLE PRE-EMPTION	
	\blacksquare	GREEN	POLE "B" INDICATED, TYPE 1, 2 & 3	FH	i identification of the second	FIRE HYDRANT	and the second of the second o
	20,	MAST ARM TRAFFIC SIGNAL HEAD-RED, YELLOW, GREEN	TRAFFIC SIGNAL HEAD INDICATED SEE A 15		HECo	HAWAIIAN ELECTRIC Co.	
•	.21	ARROW FIBER OPTIC TRAFFIC SIGNAL HEAD—RED, YELLOW, GREEN, GREEN/YELLOW LEFT		HTCo		HAWAIIAN TELEPHONE Co.	
				SL		STREETLIGHT	and phonocompanies becomes an entire and the constraint of the con
		TURN ARROW (BIMODAL)		SMH	4	SEWER MANHOLE	
		- PUSH BUTTON - TRAFFIC LIGHT POLE, TYPE I			TS	TRAFFIC SIGNAL.	4
		FIBER OPTIC TRAFFIC SIGNAL HEAD-RED, YELLOW, GREEN, GREEN/YELLOW LEFT TURN ARROW	SEE A 15		TSPB		
				WM		WATER METER	
	Ш-	(BIMODAL) - PEDESTRIAN SIGNAL DOT		STATE DEPARTMENT OF TRANSPORTATION			
moramuna qu'ammarcana plantonimenta aphatonimenta aphatonimenta aphatonimenta a		TRAFFIC SIGNAL PULLBOX (TSPB) TYPE "C"	SEE A	UP		UTILITY POLE	
253							
nglamana glamanana glamananana gylamananana gylamananana gylamananana gylamananana gylamananana gylamananana g					4		de la company de
		TRAFFIC SIGNAL PULL BOX (TSPB), TYPE "A"	SEE $\left(\begin{array}{c}A\\12\end{array}\right)$	$\begin{pmatrix} A \\ 12 \end{pmatrix}$			
		ITPE A	12				
		TRAFFIC SIGNAL PULL BOX (TSPB), TYPE "D"	SEE A	INDICATOR SYMBOLS			
меничного принаменичного ребользования рабоналисти принаменичного принаменичного принаменичного принаменичного	a planting and the second of t			SYMBOLS		DESCRIPTION	REMARKS
E		UNDERGROUND ELECTRICAL DUCTLINES,		1 BOTT		D LIAIE, DETAIL NUMBER	
annonen planen p	ų in the state of		SEE A			OP HALF: DETAIL NUMBER OTTOM HALF: SHEET ON WHICH SHOWN	
	$ \otimes \longrightarrow$	OPTICOM RECEIVER	15				
		OVERHEAD UTILITIES (E=ELECTRICAL,			\rightarrow \mid NC	TE INDICATOR, NOTE #1 INDICATED	
— eOH-E/T/V —	-	T=TELEPHONE, V=CATV		A IND			
	QQ	LOOP DETECTORS	SEE SHEET 14			DICATES DUCT SECTION TYPE.	SEE SHEET 11
entregenius on tyden egystein seera y determinente on tyden entre on tyden entre on tyden entre on tyden entre	TO	UNDERGROUND TRAFFIC SIGNAL			·		
		UNDERGROUND TRAFFIC SIGNAL DUCTLINES AND CABLES		$ B \rangle$	TF	RAFFIC SIGNAL STANDARD (TYPE 1 OR TYPE II)	
W8		UNDERGROUND WATER LINE. 8" & 12"				NINDICATES POLE LETTER	
W12		DIAMETER INDICATED					
C 0		UNDERGROUND SEWER LINE. 8" DIAMETER					
S8		INDICATED			4,		
-eOH-TS-		OVERHEAD TRAFFIC SIGNAL INTERCONNECT					
		CABLES					

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR		TOTAL SHEETS
HAWAII	HAW.	STP-093-1(17)	1997	8	18

TYPES OF CABLES					
TYPE	DESCRIPTION				
1	SIGNAL LOOP CABLE: STRANDED, NO. 14, 26 CONDUCTORS (26/C #14)				
2	DETECTOR LEAD-IN CABLE AND PEDESTRIAN PUSH BUTTON CIRCUIT CABLE: STRANDED, NO. 14, 2 CONDUCTORS (2/C #14)				
3	INTERCONNECT CABLE: SOLID, NO. 19, 6 PAIRS (6 PAIR # 19)				
4	LOOP SENSOR CABLE: SOLID, NO. 12, SINGLE CONDUCTOR CONFORMING TO IMSA SPEC 51-5 (1/C #12)				
5	CABLE FROM SIGNAL LOOP TO SIGNAL HEAD: STRANDED, NO. 14, FOUR CONDUCTOR (4/C #14)				
6	SERVICE CABLE: STRANDED, NO. 6, 3 CONDUCTORS (3/C #6)				
7	SHIELD OPTICAL DETECTOR CABLE: SOLID, NO. 20, 3 CONDUCTORS (3/C #20)				



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SYMBOL LIST

FARRINGTON HIGHWAY

Intersection Improvements at Auyong Homestead Road
Fed. Aid Project No. STP-093-1(17)
Date: March 1997

SHEET No. 1 OF 1 SHEETS

TRAFFIC SIGNAL NOTES

- 1. THE LOCATIONS OF THE TRAFFIC SIGNAL STANDARDS, TRAFFIC SIGNAL STANDARDS W/MAST ARMS, PEDESTRIAN PUSH BUTTONS, TRAFFIC CONTROLLER, PULLBOXES, CONDUITS AND LOOP DETECTORS SHALL BE STAKED OUT IN THE FIELD BY THE CONTRACTOR AND APPROVAL OF THE LOCATIONS SHALL BE OBTAINED FROM THE ENGINEER PRIOR TO CONSTRUCTION AND INSTALLATION.
- 2. ALL SPLICING SHALL BE DONE IN THE PULLBOXES.
- 3. FURNISHING AND INSTALLING THE CONDUIT STUBOUTS (PULLBOXES TO EDGE OF PAVEMENT) WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS CONTRACT ITEMS.
- 4. A SOLID #8 BARE COPPER WIRE SHALL BE PULLED WITH THE TRAFFIC SIGNAL CONTROL CABLE FOR EQUIPMENT GROUND. COST SHALL BE INCIDENTAL TO THE INSTALLATION OF THE CONTROL CABLE.
- 5. ALL TRAFFIC SIGNAL CONTROLLER EQUIPMENT SHALL COMPLETELY WIRED IN THE CABINET AND SHALL CONTROL THE TRAFFIC SIGNALS AS CALLED FOR IN THE PLANS.
- 6. THE LOOP AMPLIFIER UNITS FURNISHED FOR THIS PROJECT SHALL BE CAPABLE OF OPERATING THE LOOP DETECTOR CONFIGURATIONS SHOWN ON THE PLANS. COST FOR THE LOOP AMPLIFIER SHALL BE INCIDENTAL TO THE INSTALLATION OF THE LOOP DETECTOR.
- 7. SHOULD ANY DEFECT BE ENCOUNTERED DURING THE WARRANTY PERIOD, THE MANUFACTURER WILL BE NOTIFIED AND HE SHALL PROMPTLY CORRECT SUCH DEFECT. SERVICE CALL (BY FACTORY QUALIFIED REPRESENTATIVE) DURING THE WARRANTY PERIOD FOR REPAIRS OR OTHER MAINTENANCE SHALL BE ANSWERED WITHIN 24 HOURS AND SHALL BE DONE AT NO EXPENSE TO THE STATE. ALL REPAIRS SHALL BE DONE AS SOON AS POSSIBLE.
- 8. ALL TRAFFIC SIGNAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAY", FEDERAL HIGHWAY ADMINISTRATION (1988) AND AMENDMENTS.
- 9. LOCATIONS OF TRAFFIC MARKINGS AND MARKERS (LANE LINES, STOP LINES, CROSS, ETC.) SHOWN ON THE PLANS SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO THE INSTALLATION OF THE TRAFFIC SIGNAL SYSTEM.
- 10. THE CONTRACTOR SHALL NOTIFY THE TRAFFIC SIGNAL BRANCH, DEPARTMENT OF TRANSPORTATION SERVICES, CITY & COUNTY OF HONOLULU, (PHONE NO. 523-4589) TWO WEEKS PRIOR TO COMMENCING ANY WORK ON THE TRAFFIC SIGNAL SYSTEM.
- 11. THE DEPARTMENT OF TRANSPORTATION SERVICES, CITY & COUNTY OF HONOLULU, WILL ASSIST THE ENGINEER IN CONSTRUCTION INSPECTION FOR THE TRAFFIC SIGNAL SYSTEM. THE CONTRACTOR SHALL NOTIFY THE ELECTRICAL AND MAINTENANCE SERVICES DIVISION, DEPARTMENT OF TRANSPORTION SERVICES, THREE (3) WORKING DAYS PRIOR TO COMMENCING WORK ON THE TRAFFIC SIGNAL SYSTEM (PHONE NO. 523-4589).
- 12. INSTALLATION OF THE OPTICOM RECEIVER SHALL CONFORM IN ACCORDANCE WITH THE STANDARD DETAILS OF THE DEPARTMENT OF TRANSPORTATION SERVICES, CITY & COUNTY OF HONOLULU, ELECTRICAL AND MAINTENANCE SERVICES DIVISION, AND ALL SUBSEQUENT AMENDMENTS AND ADDITIONS.

ELECTRICAL SERVICE CONNECTION NOTES

- 1. CONTRACTOR TO ARRANGE SERVICE CONNECTION WITH HECo.
- 2. CONTRACTOR SHALL MAKE ALL ELECTRICAL CONNECTIONS TO CONTROLLER, PROVIDE BREAKERS, GROUND AND 2" PVC CONDUIT, SCHEDULE 80.
- 3. CONNECTION FROM METER TO SERVICE BOX SHALL BE BY CONTRACTOR.
- 4. CONTRACTOR SHALL PROVIDE HECO FOUR WEEKS ADVANCE NOTICE FOR ANY WORK BY HECO.
- 5. A HECO STANBY MAN IS REQUIRED TO BE AT THE SITE AT THE TIME ANY NON—UTILITY COMPANY PERSONNEL WILL BE BREAKING INTO OR ENTERING ANY FACILITIES THAT CONTAIN ENERGIZED UTILITY COMPANY EQUIPMENT OR CABLES.

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR		TOTAL SHEETS
HAWAII	HAW.	STP-093-1(17)	1997	9	18

- 6. THREE WORKING DAYS ADVANCE NOTICE IS REQUIRED BY THE HECO FOR ANY INSPECTION SERVICE OR STANBY MAN. CALL PHONE NO. 543—5668.
- 7. THE INSTALLATION OF THE METER PEDESTAL FOR UNDERGROUND SERVICE WILL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCIDENTAL TO THE METER SOCKET AND BREAKER.
- 8. ELECTRICAL SERVICE CONNECTION WORK BY HECO FORCES AND HECO FURNISHED EQUIPMENT AND MATERIALS SHALL BE PAID FOR UNDER ITEM NO. 623.9003 ELECTRICAL SERVICE CONNECTION BY HECO.
- 9. PAYMENT FOR ITEMS OF WORK THAT HAVE CONTRACT UNIT PRICES WILL BE MADE UNDER THE APPLICABLE CONTRACT UNIT PRICES.
- 10. WORKING DRAWINGS FOR PERMANENT INSTALLATION OF HECO FACILITIES SHALL BE PROVIDED BY HECO.

ELECTRIC, TELEPHONE AND CABLE TV FACILITIES NOTES

- 1. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN THE CONSTRUCTION IS IN CLOSE PROXIMITY OF EXISTING ELECTRIC, TELEPHONE, AND CABLE TV CABLE FACILITIES. ANY DAMAGE TO THE EXISTING UNDERGROUND UTILITIES SHALL BE REPAIRED BY THE UTILITY COMPANY AND PAID FOR BY THE CONTRACTOR.
- 2. THE CONTRACTOR SHALL NOTIFY THE "UTILITY COMPANIES" TWO (2) WEEKS IN ADVANCE FOR ANY POLE RELOCATIONS THAT ARE REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATION COST.

ELECTRICAL & MAINTENANCE SERVICES DIVISION NOTES:

- 1. THE CONTRACTOR SHALL NOTIFY THE ELECTRICAL & MAINTENANCE SERVICES DIVISION, DEPARTMENT OF TRANSPORTATION SERVICES, THREE (3) WORKING DAYS PRIOR TO COMMENCING WORK ON THE TRAFFIC SIGNAL SYSTEM (PHONE: 523-4589).
- 2. THE TRAFFIC SIGNAL SYSTEMS SHALL BE KEPT OPERATIONAL DURING CONSTRUCTION. ANY RELOCATION OR CHANGEOVER REQUIRED SHALL BE APPROVED BY THE ELECTRICAL & MAINTENANCE SERVICES DIVISION, DEPARTMENT OF TRANSPORTATION SERVICES, AND PERFORMED AND PAID FOR BY THE CONTRACTOR.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO EXISTING TRAFFIC SIGNAL, FACILITY, INCLUDING THE TRAFFIC SIGNAL INTERCONNECT SYSTEM, AND ANY AND ALL DAMAGES TO THESE FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS COST IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY AND COUNTY OF HONOLULU.
- 4. THE CONTRACTOR SHALL NOTIFY THE JOIST POLE COMMITTEE TWO (2) WEEKS IN ADVANCE OF ANY RELOCATION OF UTILITY POLE(S) THAT MAY BE NECESSARY.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

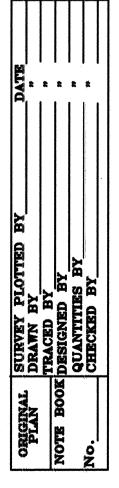
GENERAL NOTES

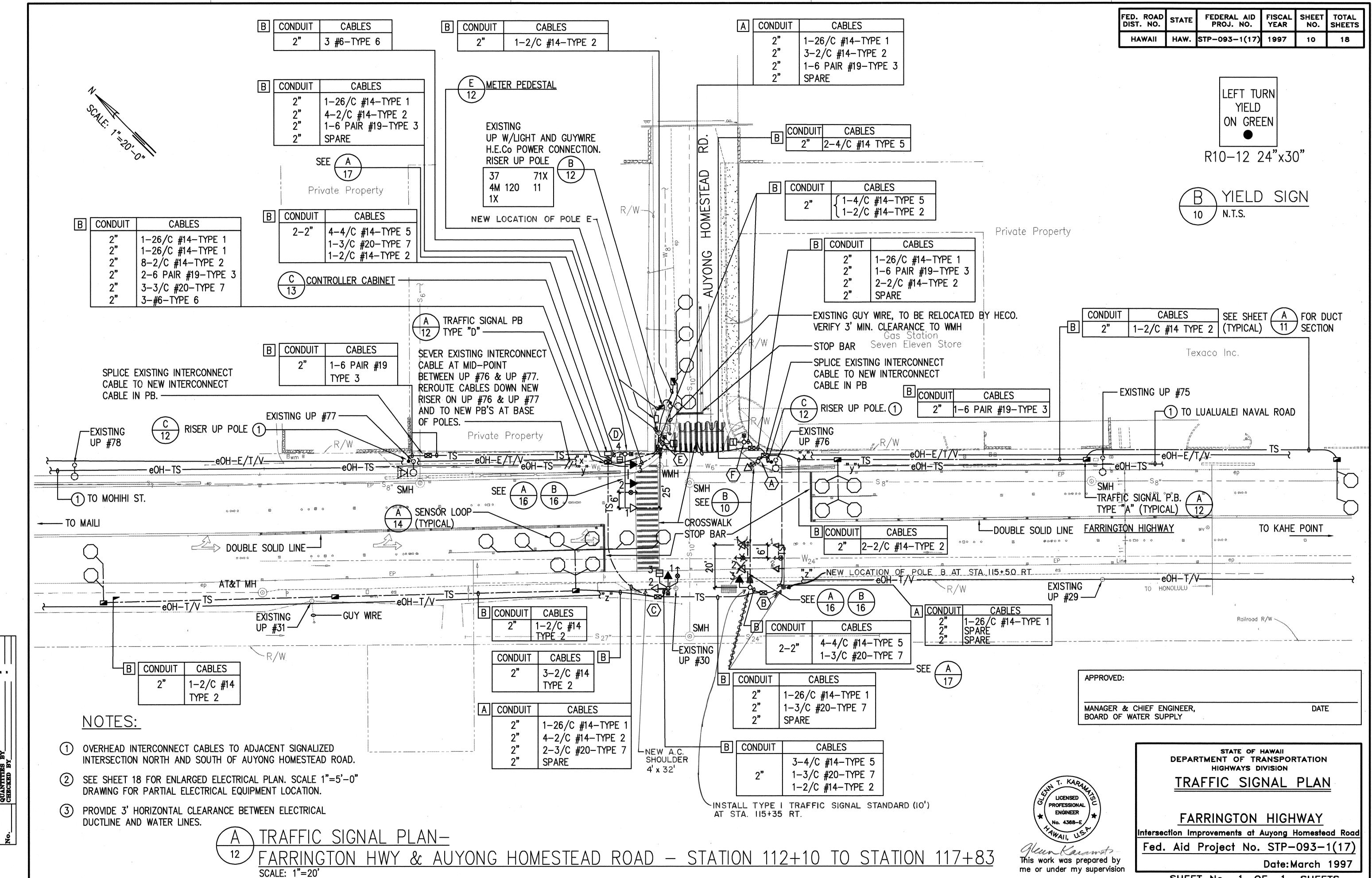
FARRINGTON HIGHWAY
Intersection Improvements at Auyong Homestead Road

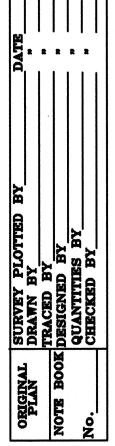
Fed. Aid Project No. STP-093-1(17)

Date:March 1997

SHEET No. 1 OF 1 SHEETS







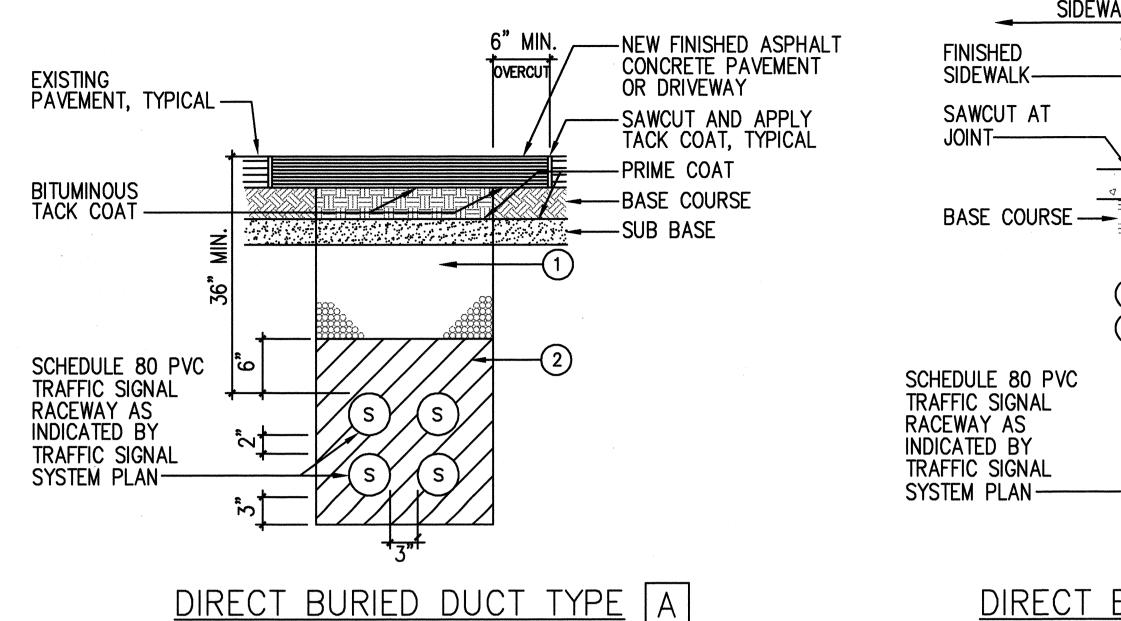
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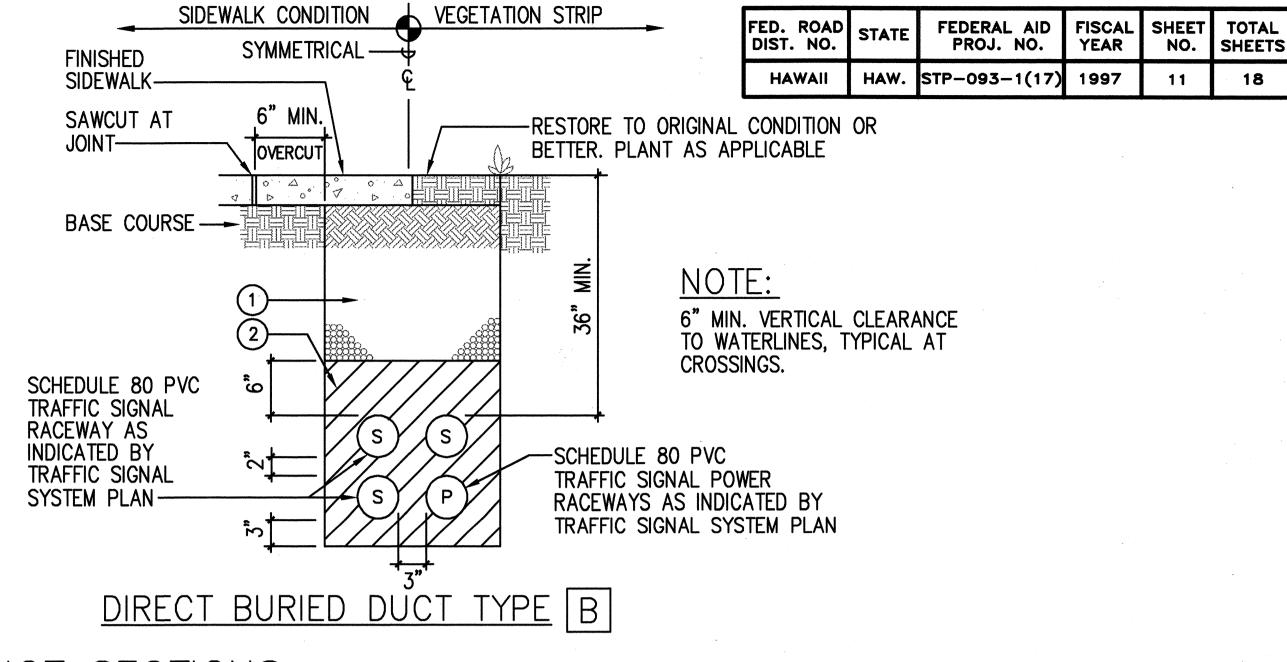
SHEETS

SHEET No. 1 OF 1

NOTES:

- (1) TYPE "A" BACKFILL BEACH SAND, EARTH, OR EARTH AND GRAVEL. IF EARTH AND GRAVEL, THE MAXIMUM ROCK SIZE SHALL BE 1" AND THE MIXTURE SHALL NOT CONTAIN MORE THAN 50% BY VOLUME OF ROCK
- TYPE "B" BACKFILL BEACH SAND, EARTH, OR EARTH AND GRAVEL. IF EARTH AND GRAVEL, THE MIXTURE MUST PASS A 1/2" MESH SCREEN AND CONTAIN NOT MORE THAN 20% BY VOLUME OF ROCK PARTICLES.
- 3 PAVEMENT AND SIDEWALK STRUCTURE SHALL BE EQUIVALENT OR BETTER THAN EXISTING IN THICKNESS AND QUALITY.
- (4) PROVIDE 3" CONCRETE JACKET SCHEDULE 40 PVC UNDER DRIVEWAY
- (5) DIRECT BURIED WITH SCHEDULE 80 PVC UNDER SIDEWALK OR VEGETATION STRIP CONDITION IS AN ACCEPTABLE ALTERNATIVE.

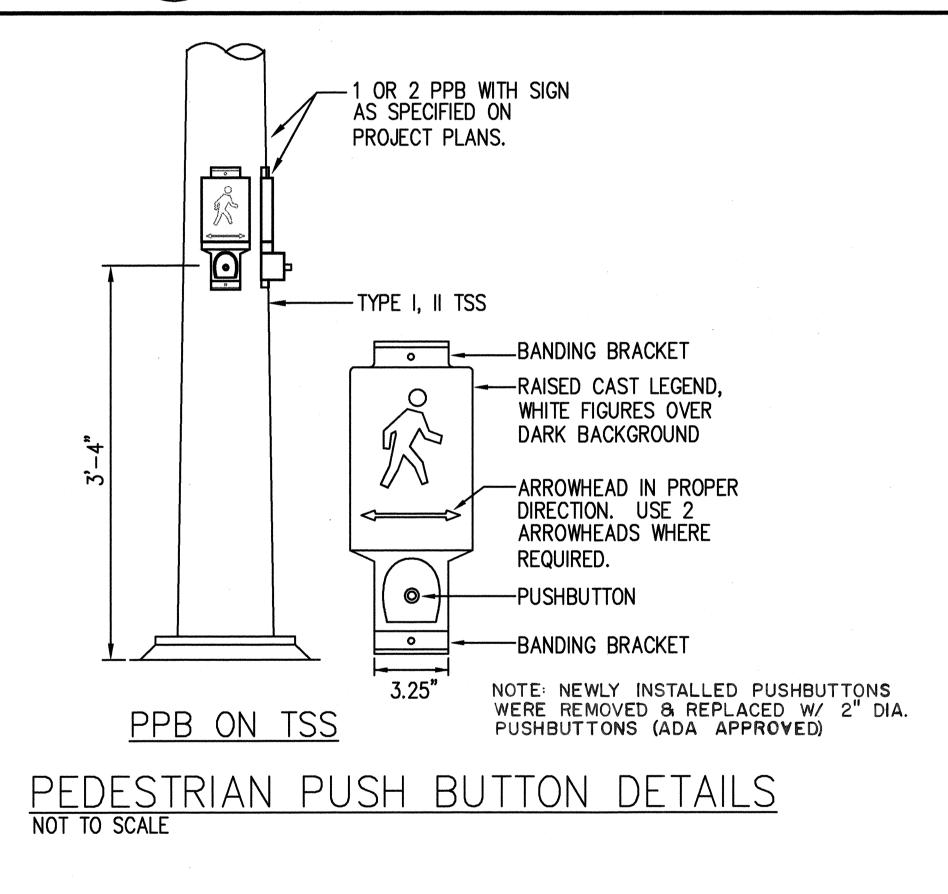


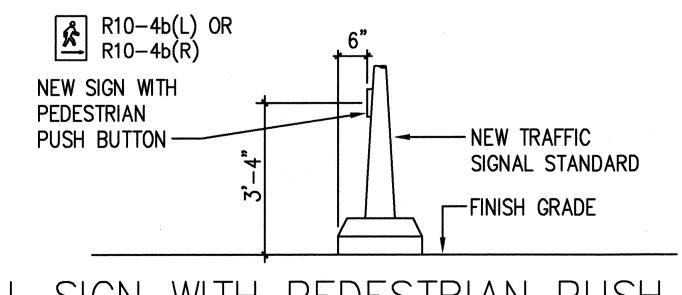


YPICAL DUCT SECTIONS 11 NOT TO SCALE

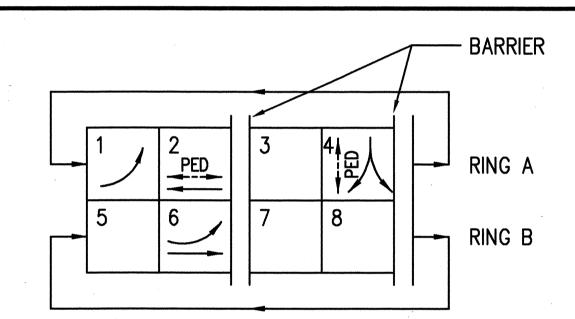
	TF				
•	TRAFFIC SIGNAL HEAD TYPE AND DESCRIPTION		(F) (G)		(R) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S
		PEDESTRIAN SIGNAL HEAD	12" RYG TRAFFIC SIGNAL HEAD	12" RY TRAFFIC SIGNAL HEAD	12" RYG - G (BIMODAL) TRAFFIC SIGNAL HEAD, FIBER OPTIC
28	POLE LETTER SIGNAL HEAD NUMBER	E-1, F-1, C-3, D-4	C-1, B-3 D-2, D-3,	B-2, C-2, D-1	A-1, B-1

LIST OF MATERIALS					
POLE LETTER	STANDARD TYPE	MOUNTING TYPE	SIGNAL FACES AND OPTICOM RECEIVERS		
A	I-10	SLIPFITTER - ONE WAY	$R-Y-G \xrightarrow{G} (BIMODAL LEFT)$		
B	II-20	MAST ARM - ONE WAY MAST ARM - ONE WAY BRACKET - ONE WAY MAST ARM (HOR.)	R-Y-G G (BIMODAL LEFT) R-Y- R-Y-G OPTICOM		
(C)	I–10	SLIPFITTER — TWO WAY BRACKET — ONE WAY BRACKET — ONE WAY POLE	R-Y-G, R-Y- ↑ H-M OPTICOM PUSHBUTTON		
D	II-25	MAST ARM — ONE WAY MAST ARM — ONE WAY MAST ARM — ONE WAY BRACKET — ONE WAY MAST ARM (HOR.) POLE	R-Y- R-Y-G R-Y-G H-M OPTICOM PUSHBUTTON		
E	I–8	SLIPFITTER - ONE WAY POLE	H-M PUSHBUTTON		
F	I-8.	SLIPFITTER - ONE WAY POLE	H-M PUSHBUTTON		

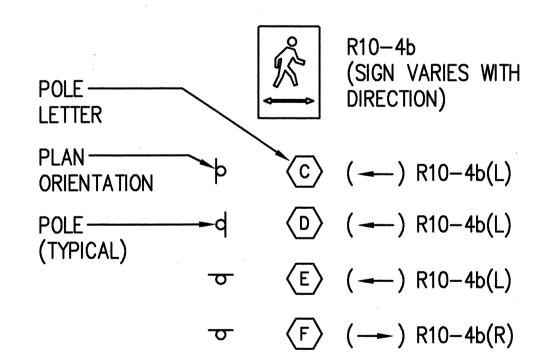




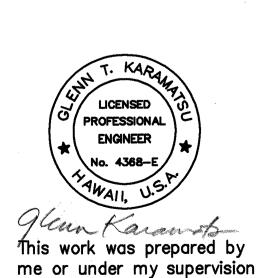
TYPICAL SIGN WITH PEDESTRIAN PUSH BUTTON NOT TO SCALE



PHASE DIAGRAM



PEDESTRIAN PUSH BUTTON WITH SIGN (NEW)

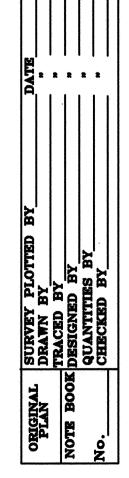


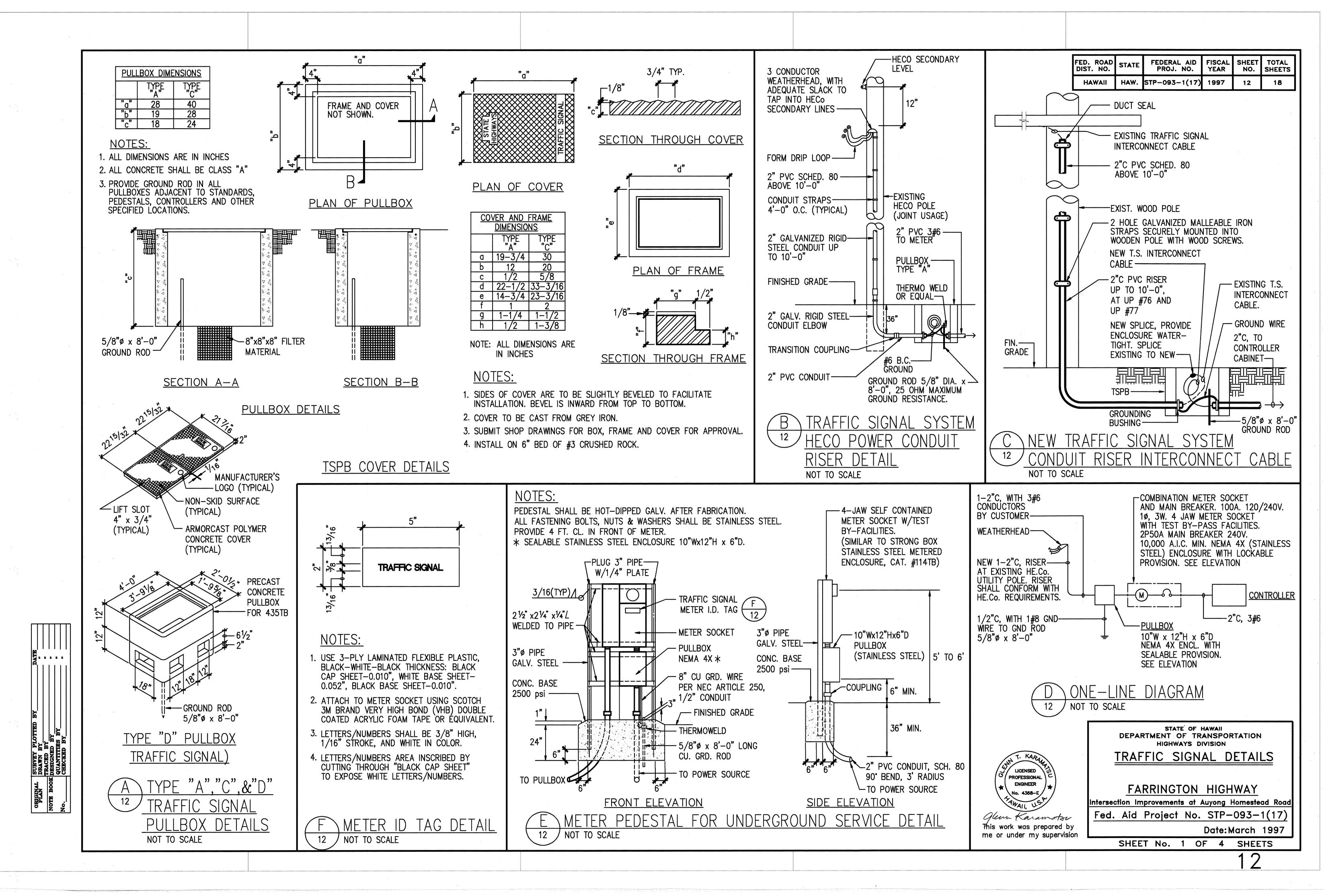
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TRAFFIC SIGNAL SCHEDULES

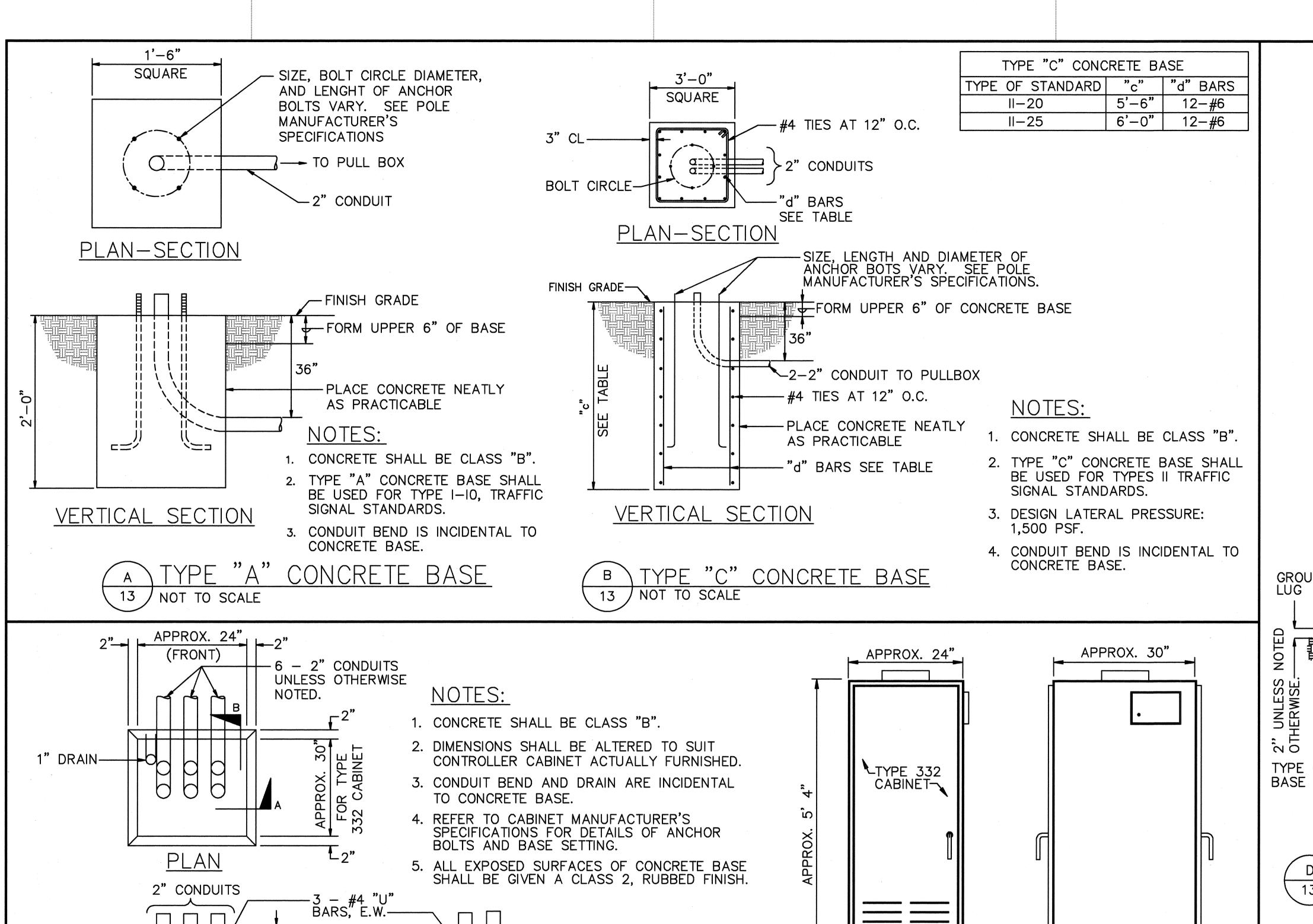
> AND DETAILS FARRINGTON HIGHWAY

Intersection Improvements at Auyong Homestead Road Fed. Aid Project No. STP-093-1(17) Date:March 1997

> SHEETS SHEET No. 1 OF

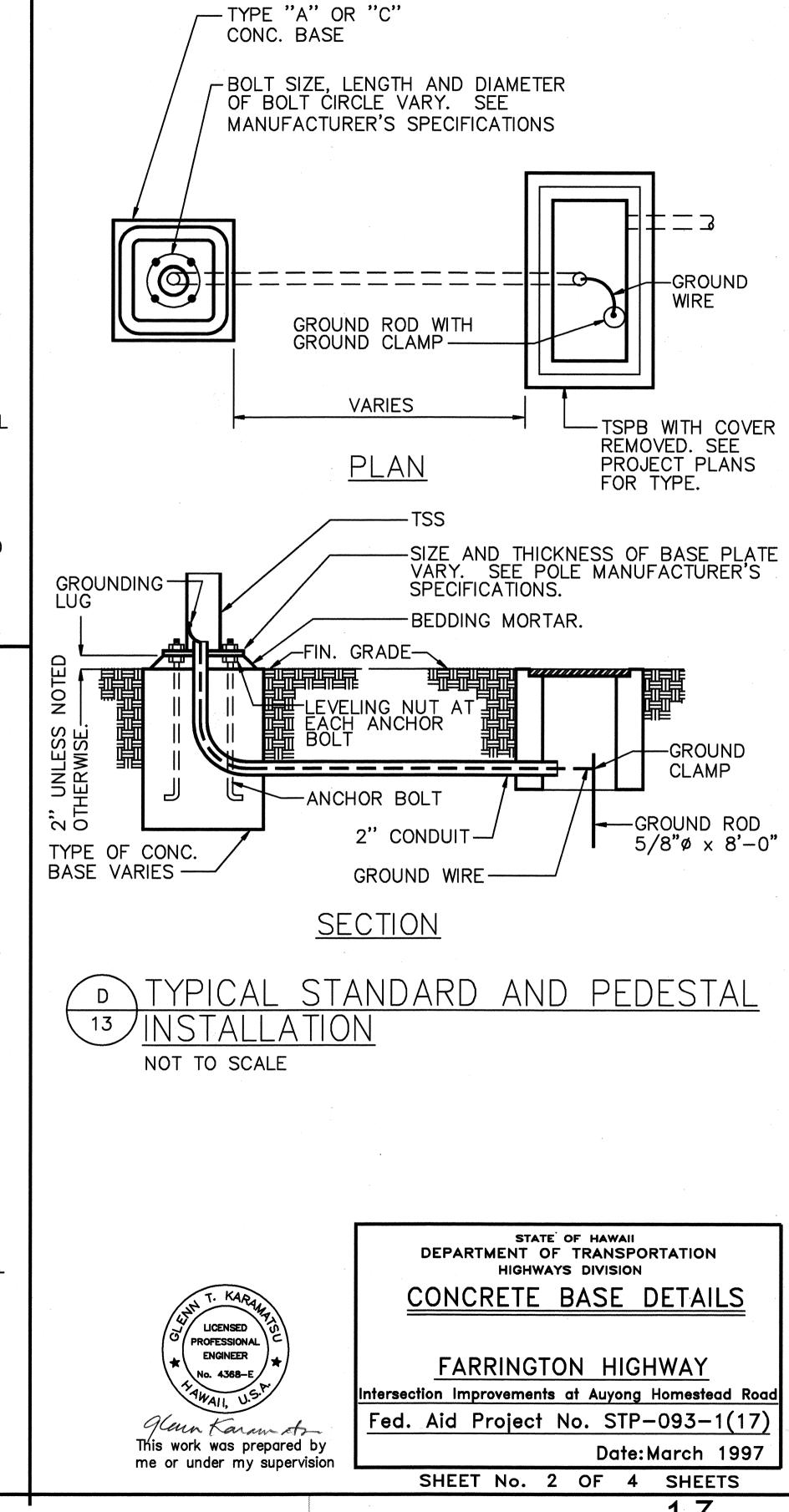






-SCREENED OPENING

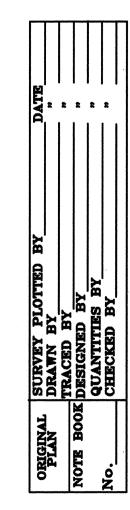
2" CONDUITS



FED. ROAD DIST. NO.

STATE

HAW. STP-093-1(17)



FINISH GRADE

BARS," E.W.

SECTION "A'

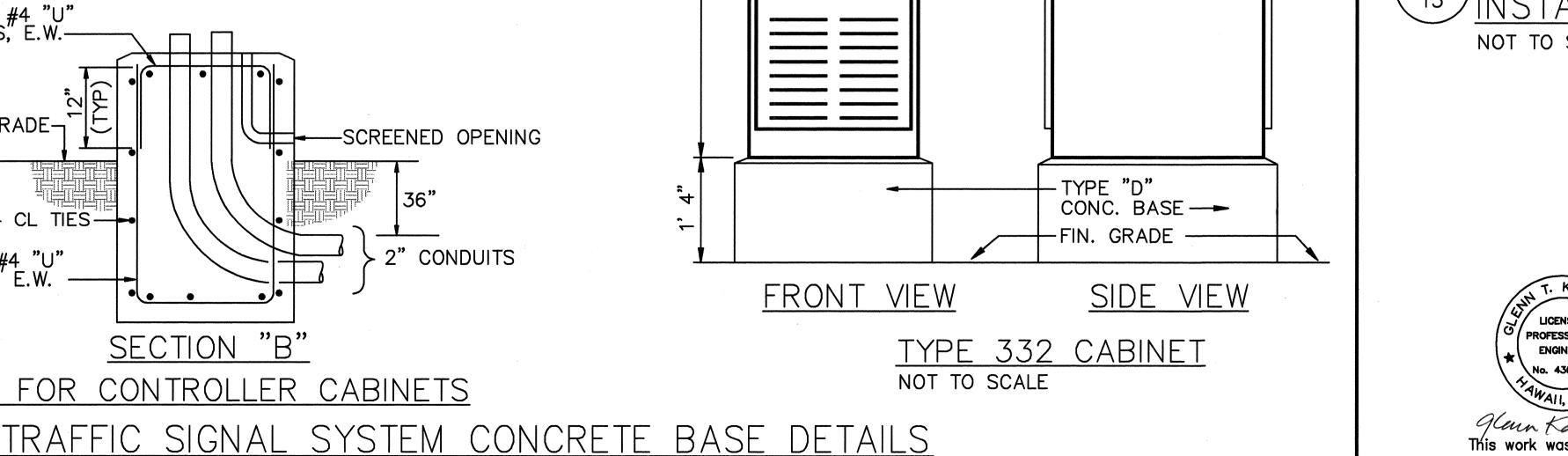
NOT TO SCALE

- #4 CL TIES

TYPE "D" CONCRETE BASE FOR CONTROLLER CABINETS

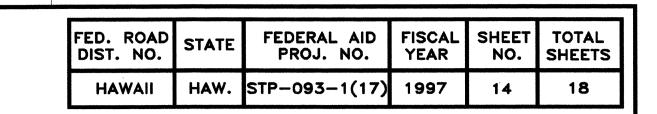
13 / NOT TO SCALE

SECTION "B"



FEDERAL AID FISCAL SHEET TOTAL PROJ. NO. YEAR NO. SHEETS

1997



-2-1/C #12 CABLES CONFORMING TO IMSA SPEC 51-5

SECTION C
14

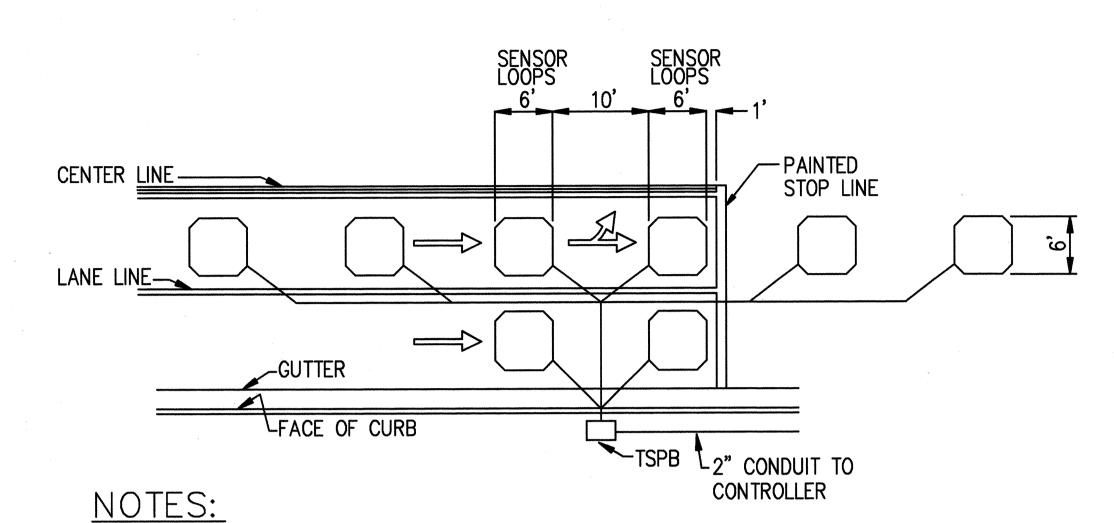
SECTION B

— HOT TAR

SEALANT

-1/C #12 CABLES CONFORMING TO IMSA SPEC 51-5. 2 x NO. OF LOOPS UPSTREAM

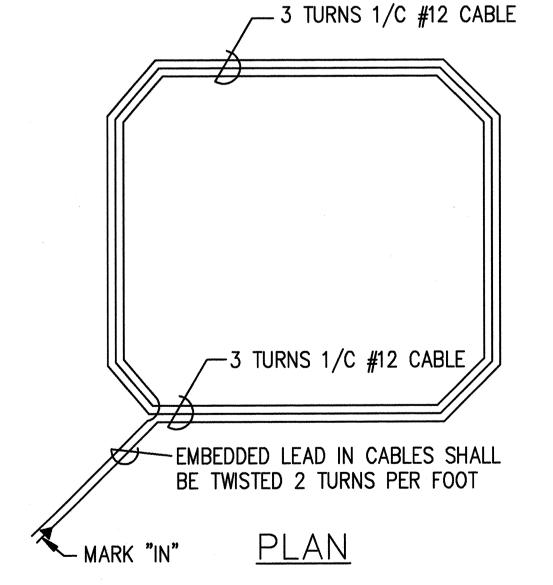
SECTION D



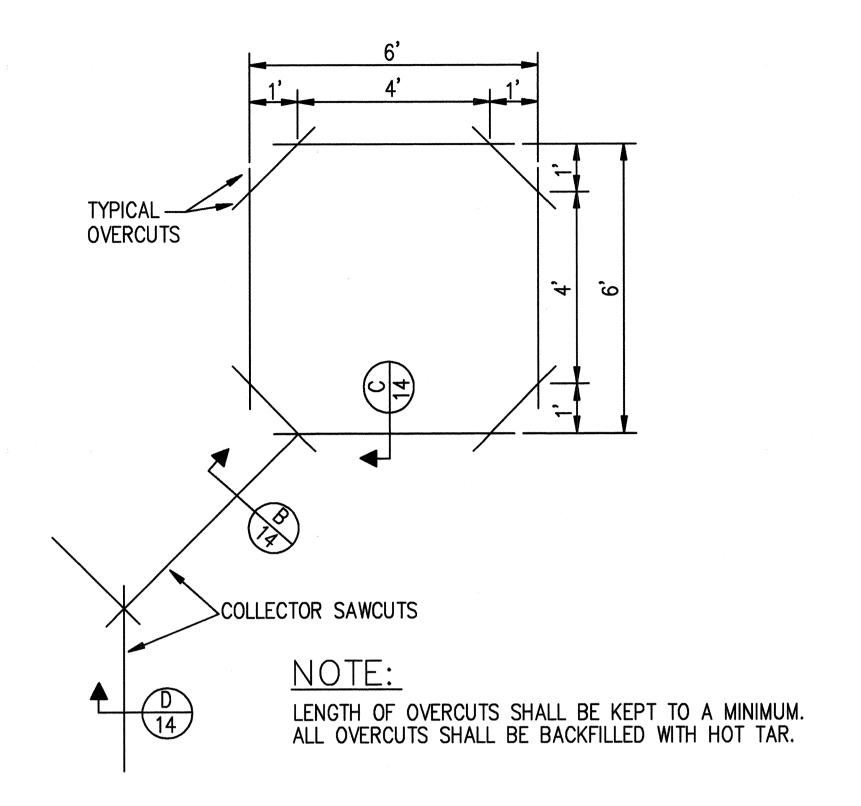
1. CENTER SENSOR LOOPS IN LANES.

- 2. COLLECTOR CABLES SHALL BE TWISTED 2 TURNS PER FOOT.
- 3. NUMBER OF LOOPS AND LOCATIONS VARY. SEE PROJECT PLANS.
- 4. NUMBER AND LOCATIONS OF COLLECTOR SAWCUTS MAY BE VARIED IN THE FIELD TO SUIT.
- 5. COORDINATE FINAL LOCATION OF SENSORS WITH CIVIL STRIPING PLAN.

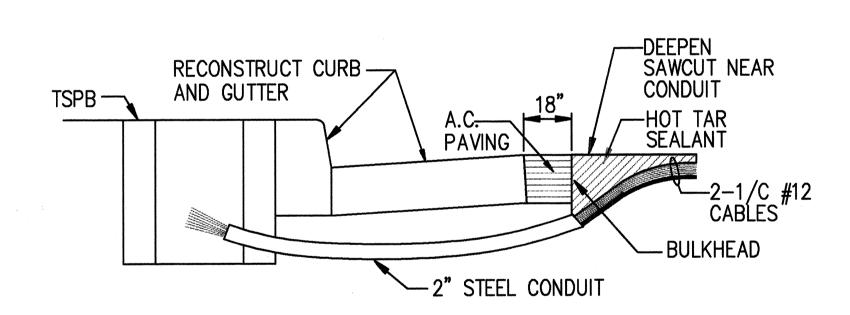




TYPICAL SENSOR LOOP WIRING DIAGRAM



TYPICAL SENSOR LOOP SAWCUT DETAIL

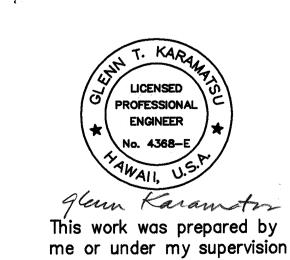


NOTES ON CONSTRUCTION AT END OF SAWCUT

- 1. SEAL ROADWAY END OF CONDUIT AFTER INSTALLATION OF CONDUCTORS
- 2. INSTALL BULKHEAD ACROSS CONDUIT TRENCH.
- 3. PLACE HOT TAR IN SAWCUT.
- 4. BACKFILL OVER CONDUIT WITH NEW A.C.
- 5. RECONSTRUCT CURB AND GUTTER AS REQUIRED.

DETAIL OF SENSOR LOOP INSTALLATION

AT EDGE OF ROADWAY



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

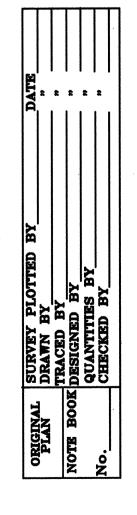
LOOP DETECTOR DETAILS

FARRINGTON HIGHWAY

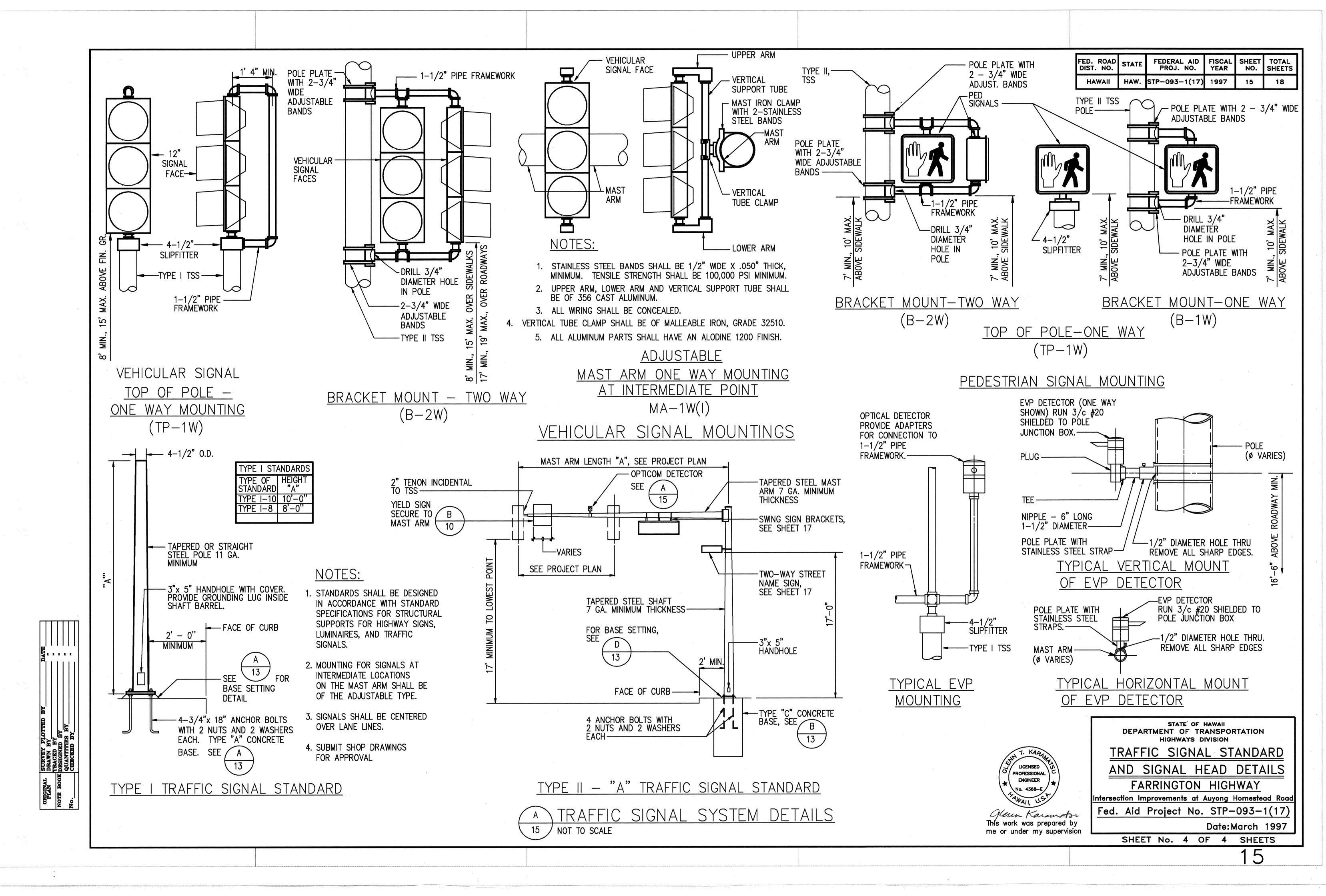
Intersection Improvements at Auyong Homestead Road Fed. Aid Project No. STP-093-1(17)

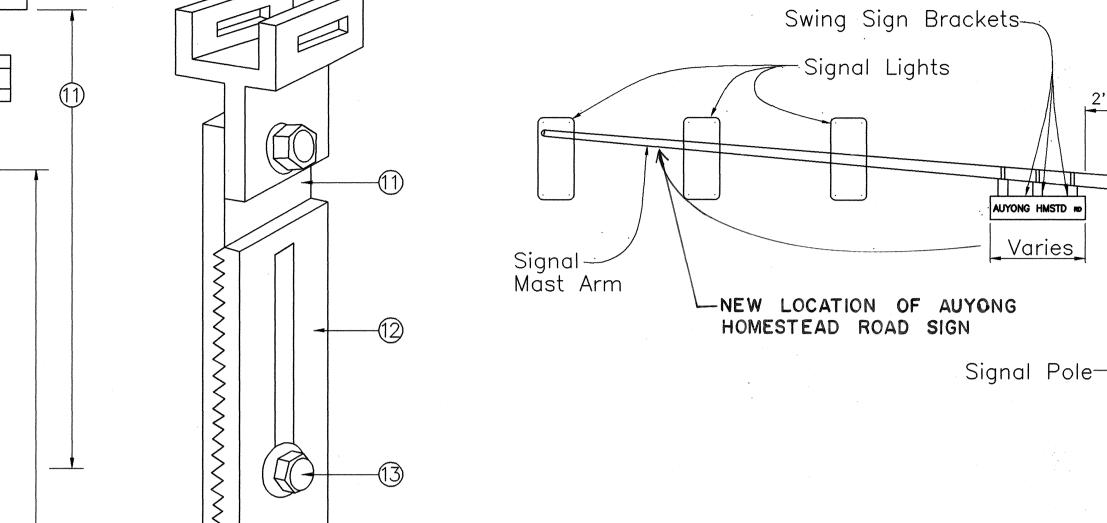
Date:March 1997

SHEET No. 3 OF 4 SHEETS

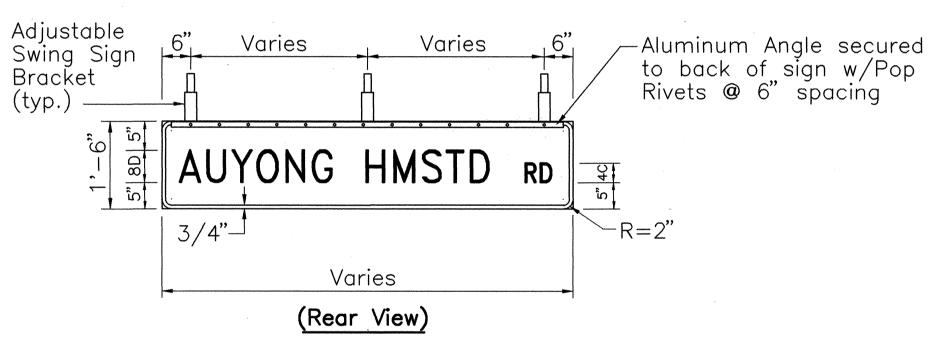


14





STREET NAME SIGN MOUNTING ON MAST ARM

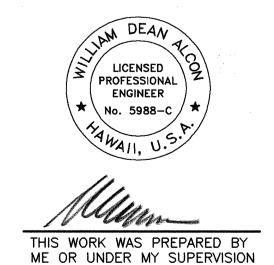


COLORS: Legend — White (Refl.) Background — Green (Refl.)

Provide the same message on the front and back side of the sign.

TYPICAL PANEL & SWING BRACKET LAYOUT FOR STREET NAME SIGN ON TRAFFIC SIGNAL MAST ARM

SIGN MOUNTING DETAIL



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

STREET NAME SIGN AND

SWING SIGN BRACKET DETAIL

FARRINGTON HIGHWAY

Intersection Improvements at Auyong Homestead Road

Fed. Aid Project No. STP-093-1(17)

Date:MARCH, 1997 SHEET No. 1 OF 1 SHEETS

Signal Pole-



3/8"_

2 1/2"

All Aluminum 6061T6 Alloy and Stainless Steel Components.

18 1/2"

Fully Extended

overall

Length

14"

Fully

Closed Overall

Length

Allows Length

Adjustment of 4 1/2"

1 Pivotal Upper Bracket

3/8" from bottom

of sign mounting hole to bottom of

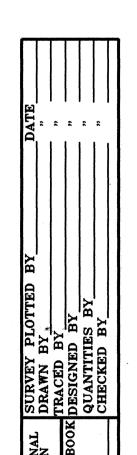
bracket.

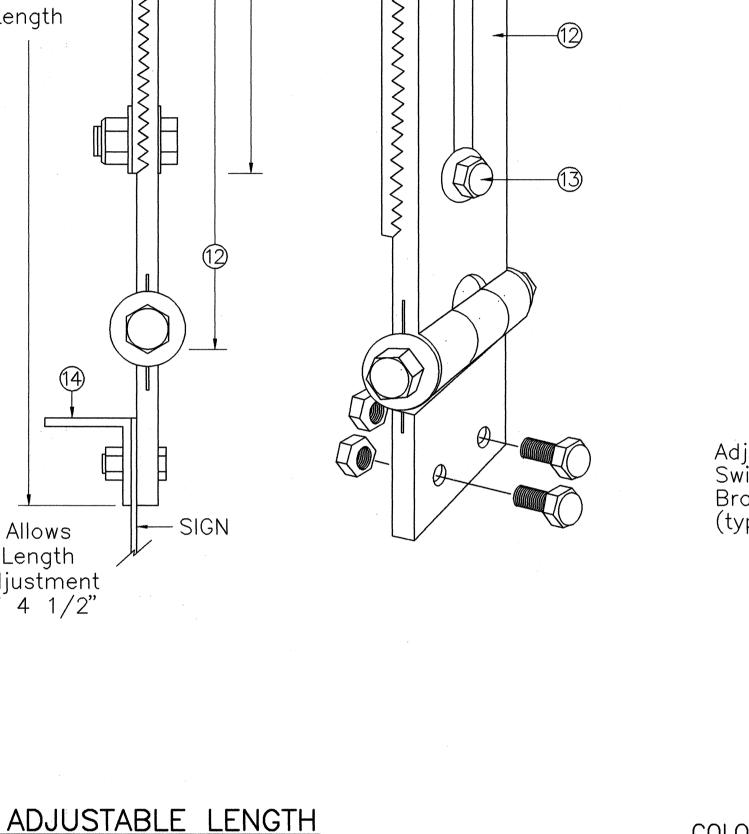
- 2 1 5/8" x 1/4" Slot for double strapping to electrolier mast arm. (M2G-34S(HD) .030" x 3/4" Heavy Duty Stainless Stail Stump with M2G-34B(HD) Buckle recommended.)
- 3 1/2" 13 x 1 1/2" Stainless Steel Hex Head Bolt with Stainless Steel Hex Lock Nut and 1/16" Stainless Steel Washer (both sides). Allows upper bracket to pivot and align with electrolier mast arm.
- 4) 6" Overall drop with Fixed Length Sign Bracket
- 5 Stainless Steel Dampener Spring (Removable)
- 6 Stainless Steel Hex Lock Nut with 1/16" Stainless Steel Washer
- 7 1" O.D. Axle Housing
- 8 1/2" 13 x 4" Stainless Steel Hex Head Bolt with 1/16" Stainless Steel Washer
- 9 Oilite Bushing
- Sign Mounting Sets, consisting of two each 5/16" 18 x 1"

 Stainless Steel Hex Head Bolt with Stainless Steel Hex

 Lock Nut. Two holes on 1 1/2" centers provide positive lock

 sign mounting to bracket.
- (11) 8 1/4" overall length Upper Adjustable Sign Bracket section
- (2) 9" overall length Lower Adjustable Sign Bracket section, including Axle Housing (8" overall length to top of Axle Housing)
- 13 1/2" 13 x 1 1/2" Stainless Steel Hex Bolt with Stain—less Steel Hex Lock Nut and 1/16" Stainless Steel Washers (both sides). Loosen lock nut, adjust bracket teeth to level sign.
- \bigcirc 1 1/4" x 1 1/4" x 1/8" Aluminum Angle





Note: Dimensions may vary slightly.

SWING SIGN BRACKET

