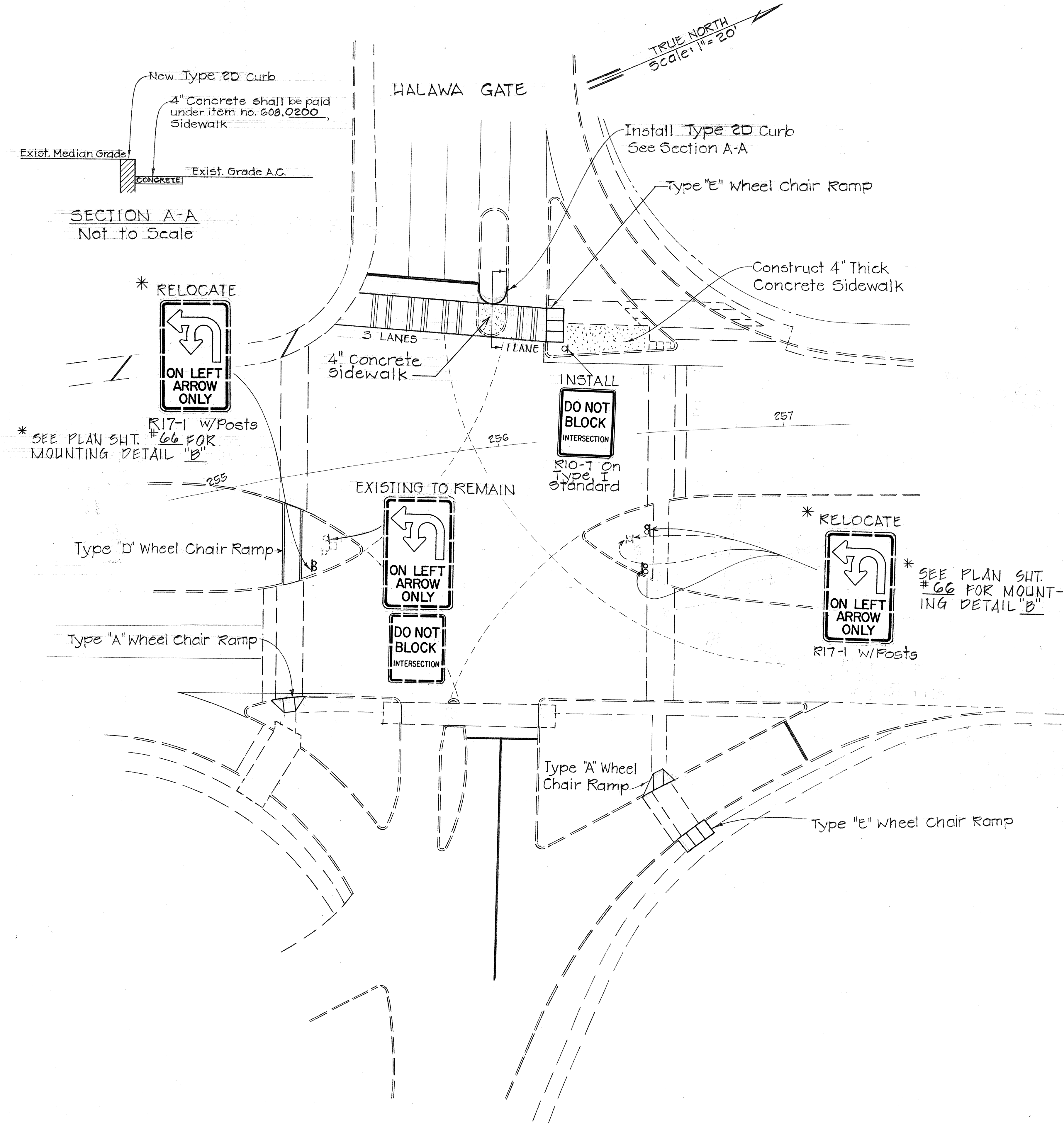


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-75	1978	29	79

QUANTITY SUMMARY FOR HALAWA GATE AT KAMEHAMEHA HIGHWAY		
ITEM NO	QUANTITY	DESCRIPTION
609.2020	20 L.F.	Type 2D Concrete Curb
621.5700	3 Ea.	Install Relocated R17-1 Sign w/Posts
621.5000	1 Ea.	Install R10-7 Sign w/o Post
623.2011	6 Ea.	Type I Traffic Signal Standard and Foundation
623.2016	1 Ea.	Type II Traffic Signal Standard with 30 Foot Mastarm and Foundation
623.3061	1 Ea.	New 12" R,Y,↑ Traffic Signal Head with Type VI Mounting
623.3049	1 Ea.	One relocated 12" R,Y,↑ Traffic Signal Head and one new 12" R,Y,← Programmed Visibility Traffic Signal Head w/Type V Mountings
623.3025	1 Ea.	Two relocated 12" R,Y,↑ Traffic Signal Head and one relocated 12" R,Y,G Traffic Signal Head with Type III Mounting
623.3023	2 Ea.	One new 12" R,Y,G Traffic Signal Head, one relocated 12" R,Y,G Traffic Signal Head and one new 12" R,Y,← Traffic Signal Head with Type III Mounting
623.3011	1 Ea.	Two new 12" R,Y,G Traffic Signal Head with Type II Mounting
623.4100	2 Ea.	New Pedestrian Signal Head with Type I Mounting
623.4200	1 Ea.	Two New Pedestrian Signal Heads with Type II Mounting
623.4300	6 Ea.	New Pedestrian Signal Head with Type IV Mounting
623.4400	1 Ea.	Two New Pedestrian Signal Heads with Type V Mounting
623.2027	1 Ea.	Pedestrian Push Button Post and Foundation
623.4600	10 Ea.	Pedestrian Push Button with R10-4a Sign
623.5000	915 L.F.	1-2 Inch Conduit
623.7020	1480 L.F.	No. 14 2-Conductor Loop Detector Cable
623.7030	500 L.F.	No. 14 26-Conductor Traffic Control Loop Cable
623.7010	210 L.F.	No. 14 1-Conductor
623.6010	9 Ea.	Type "B" Pullbox
623.8050	6 Ea.	Loop Detector Sensing Unit (6 Loops, 6 Ft. x 6 Ft.)
623.8070	1 Ea.	Loop Detector Sensing Unit (3 Loops, 6 Ft. x 8 Ft.)
623.8060	1 Ea.	Loop Detector Sensing Unit (2 Loops, 6 Ft. x 8 Ft.)
623.1010	170 L.F.	Pavement Striping
650.0010	2 Ea.	Type "A" wheel Chair Ramps
650.0040	1 Ea.	Type "D" wheel Chair Ramps
650.0050	2 Ea.	Type "E" wheel Chair Ramps
623.1020	4 Lane	Crosswalk Marking
608.0200	49 Sq.Yd	Sidewalk
621.5300	1 Ea.	W3-3 Sign with Post
623.3014	1 Ea.	One new 12" R,Y,← Programmed Visibility Head and one relocated 12" R,Y,G Traffic Signal Head with Type II Mounting
	730 L.F.	Pedestrian Pushbutton Control Cable (1-2C #14)



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

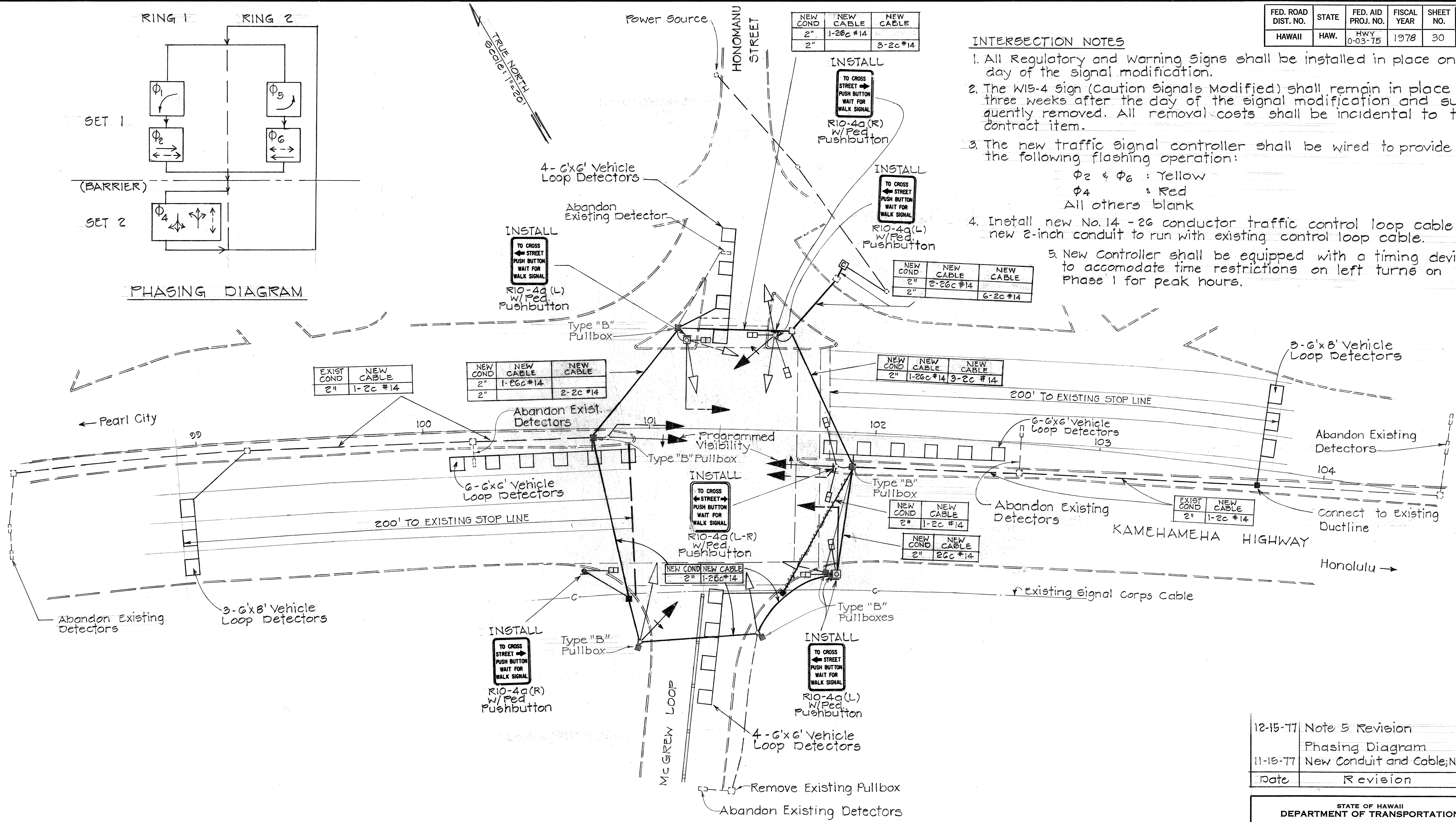
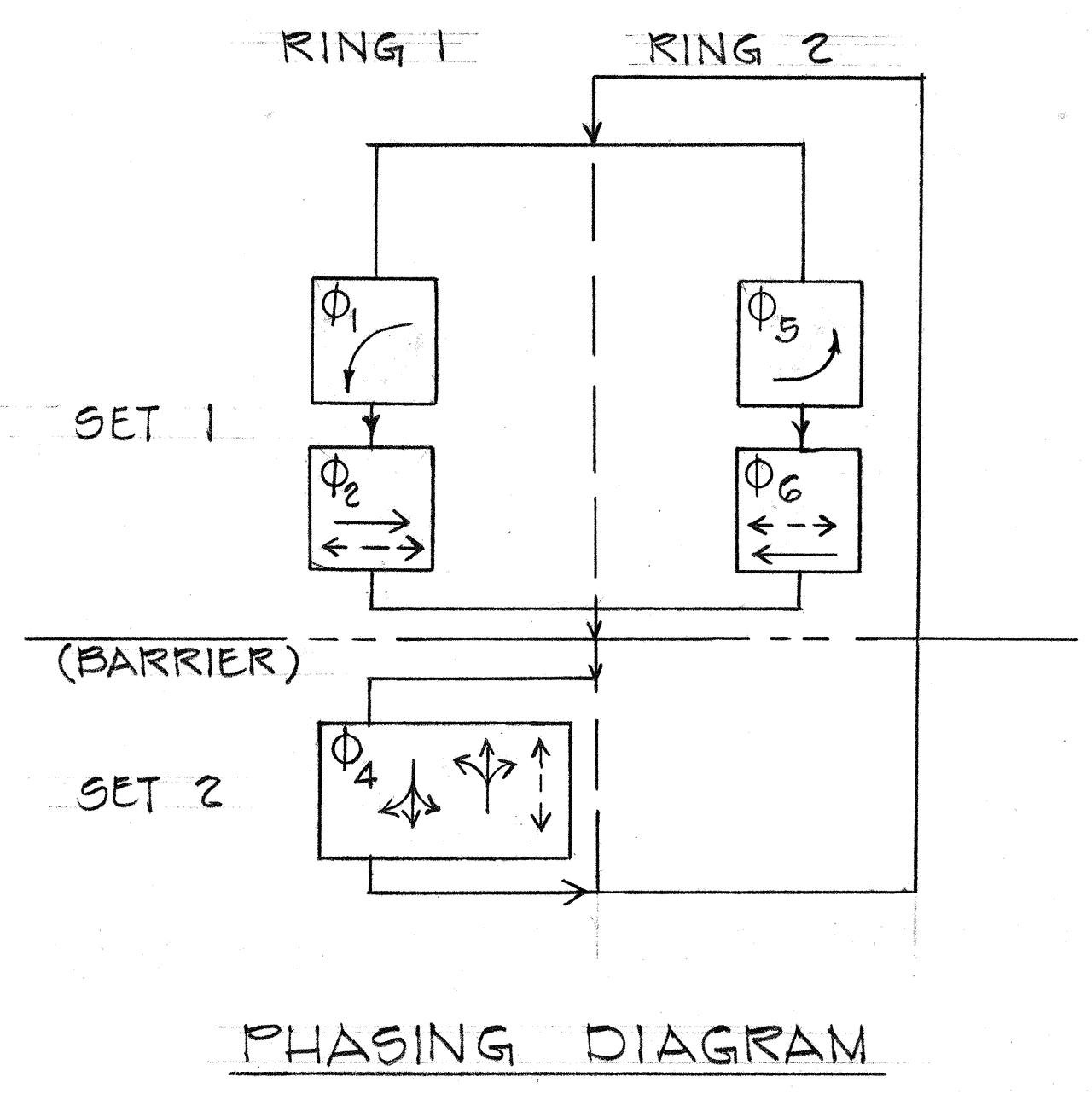
11-15-77	Quantity Summary
DATE	REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
UPGRADE TRAFFIC SIGNALS AT VARIOUS INTERSECTIONS
KAM. HWY. - HALAWA GATE
PROJ. NO. HWY. 0-03-75
Scale: 1"=20' Date: April 1977
SHEET NO. 25 OF 49 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY 0-03-75	1978	30	79

INTERSECTION NOTES

1. All Regulatory and Warning Signs shall be installed in place on the day of the signal modification.
2. The W15-4 sign (Caution Signals Modified) shall remain in place for three weeks after the day of the signal modification and subsequently removed. All removal costs shall be incidental to the contract item.
3. The new traffic signal controller shall be wired to provide for the following flashing operation:
 Φ₂ & Φ₆ : Yellow
 Φ₄ : Red
 All others blank
4. Install new No.14 - 26 conductor traffic control loop cable and new 2-inch conduit to run with existing control loop cable.
5. New Controller shall be equipped with a timing device to accomodate time restrictions on left turns on Phase 1 for peak hours.



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

12-15-77	Note 5 Revision
11-15-77	Phasing Diagram
	New Conduit and Cable; Note 5
Date	Revision

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UPGRADE TRAFFIC SIGNALS
AT VARIOUS INTERSECTIONS
KAM. HWY. - HONOMANU ST
PROJ. NO. HWY-0-03-75
Scale: 1"=20' Date: April 1977
SHEET No. 26 OF 49 SHEETS

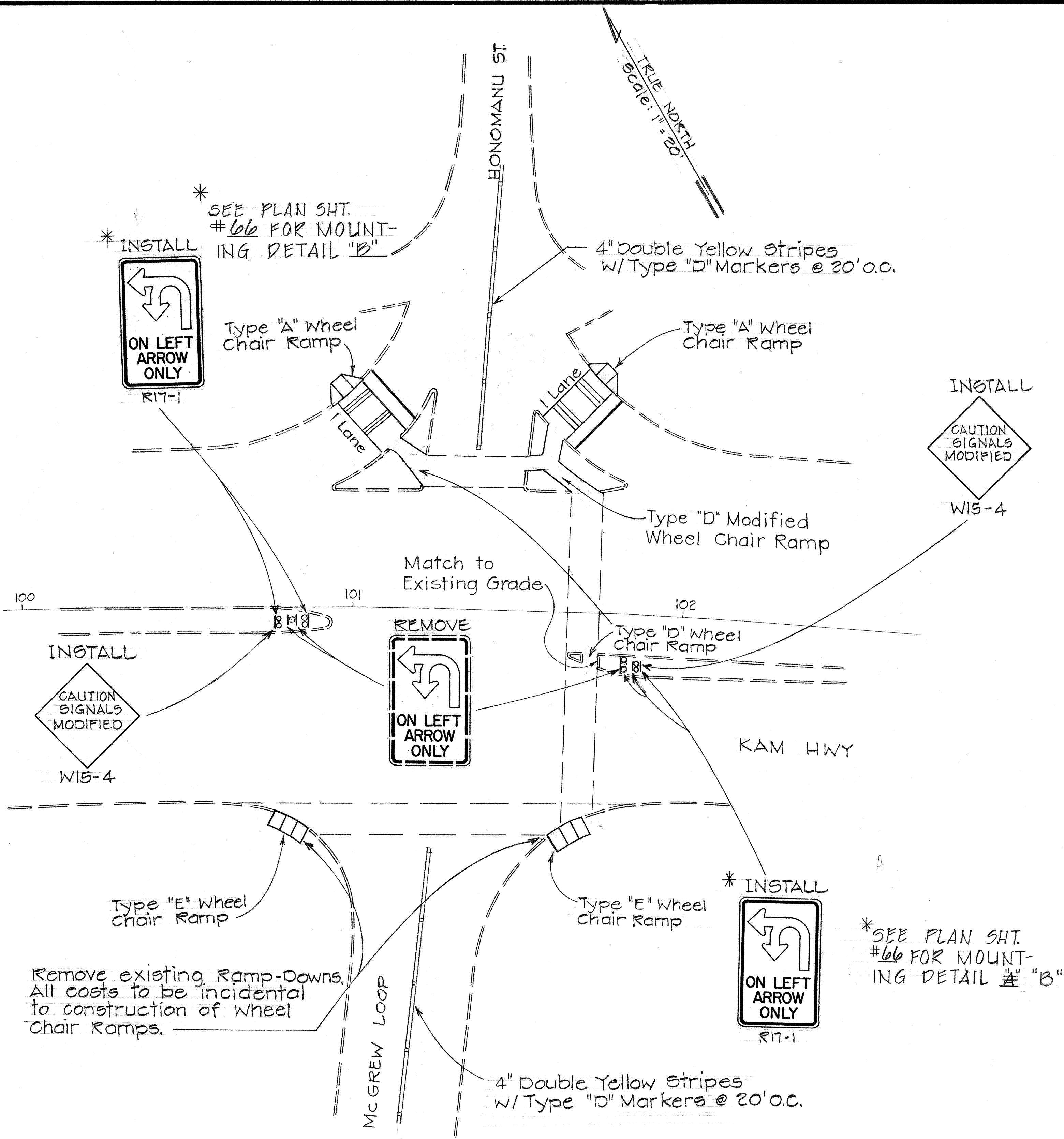
QUANTITY SUMMARY FOR HONOMANU STREET AT KAMEHAMEHA HIGHWAY			DESCRIPTION
ITEM NO	QUANTITY		
621.5000	1 Ea.		Install R17-1 Sign w/o Post
621.5100	3 Ea.		Install R17-1 Sign with Posts
623.3014	2 Ea.		One new 12" R,Y,← Programmed Visibility Traffic Signal Head and one Relocated 12" R,Y,↑ Traffic Signal Head with Type II Mounting
623.3011	1 Ea.		One new 12" R,Y,← Traffic Signal Head and one new 12" R,Y,G Traffic Signal Head with Type II Mounting
623.3021	1 Ea.		One new 12" R,Y,← Traffic Signal Head and two new 12" R,Y,G Traffic Signal Head with Type III Mounting
623.2016	2 Ea.		Type II Traffic Signal Standard with 30 Foot Mastarm and Foundation
623.3065	2 Ea.		Relocated 12" R,Y,↑ Traffic Signal Head with Type VI Mounting
623.3035	1 Ea.		Relocated 12" R,Y,G Traffic Signal Head with Type IV Mounting
623.3043	1 Ea.		One new 12" R,Y,G Traffic Signal Head and one Relocated 12" R,Y,G Traffic Signal Head with Type V Mounting
623.3001	1 Ea.		One new 12" R,Y,G Traffic Signal Head with Type I Mounting
623.4300	1 Ea.		One new Pedestrian Signal Head with Type IV Mounting
623.4400	3 Ea.		Two new Pedestrian Signal Head with Type V Mounting
623.4100	1 Ea.		One new Pedestrian Signal Head with Type I Mounting
623.2011	1 Ea.		Type I Traffic Signal Standard and Foundation
623.6010	3 Ea.		Type "B" Pull Box
623.8050	2 Ea.		Loop Detector Sensing Unit (6 Ft. x 6 Ft.) 6 Loops
623.8070	2 Ea.		Loop Detector Sensing Unit (6 Ft. x 8 Ft.) 3 Loops
623.4600	7 Ea.		Pedestrian Pushbutton with R10-4a Sign
623.5000	660 L.F.		One 2 Inch Conduit
623.7020	1150 L.F.		No. 14 2-Conductor Loop Detector Cable
623.2040	10 Ea.		Type "D" Pavement Marker
623.1010	220 L.F.		Pavement Striping
623.1020	2 Lane		Crosswalk Marking
650.0010	2 Ea.		Type "A" Wheel Chair Ramp
650.0040	2 Ea.		Type "D" Wheel Chair Ramp
650.0041	1 Ea.		Type "D" Modified Wheel Chair Ramp
650.0050	2 Ea.		Type "E" Wheel Chair Ramp
623.2001	1 Ea.		New Multi-phase Traffic Signal Controller, Cabinet & Foundation
623.7030	515 L.F.		No. 14 26-Conductor Traffic Control Loop Cable
621.5600	2 Ea.		Install temporary W15-4 sign w/o post
623.8040	2 Ea.		Loop Detector Sensing Unit (6 Ft. x 6 Ft.) 4 Loops
	445 L.F.		Pedestrian Pushbutton Control Cable (1-2c #14)

11-15-77	Quantity Summary
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
UPGRADE TRAFFIC SIGNALS
AT VARIOUS INTERSECTIONS
KAM. HWY. - HONOMANU ST.
PROJ. NO. HWY-0-03-75
Scale: 1"=20' Date: April 1977
SHEET NO. 27 OF 49 SHEETS

ADD. 31

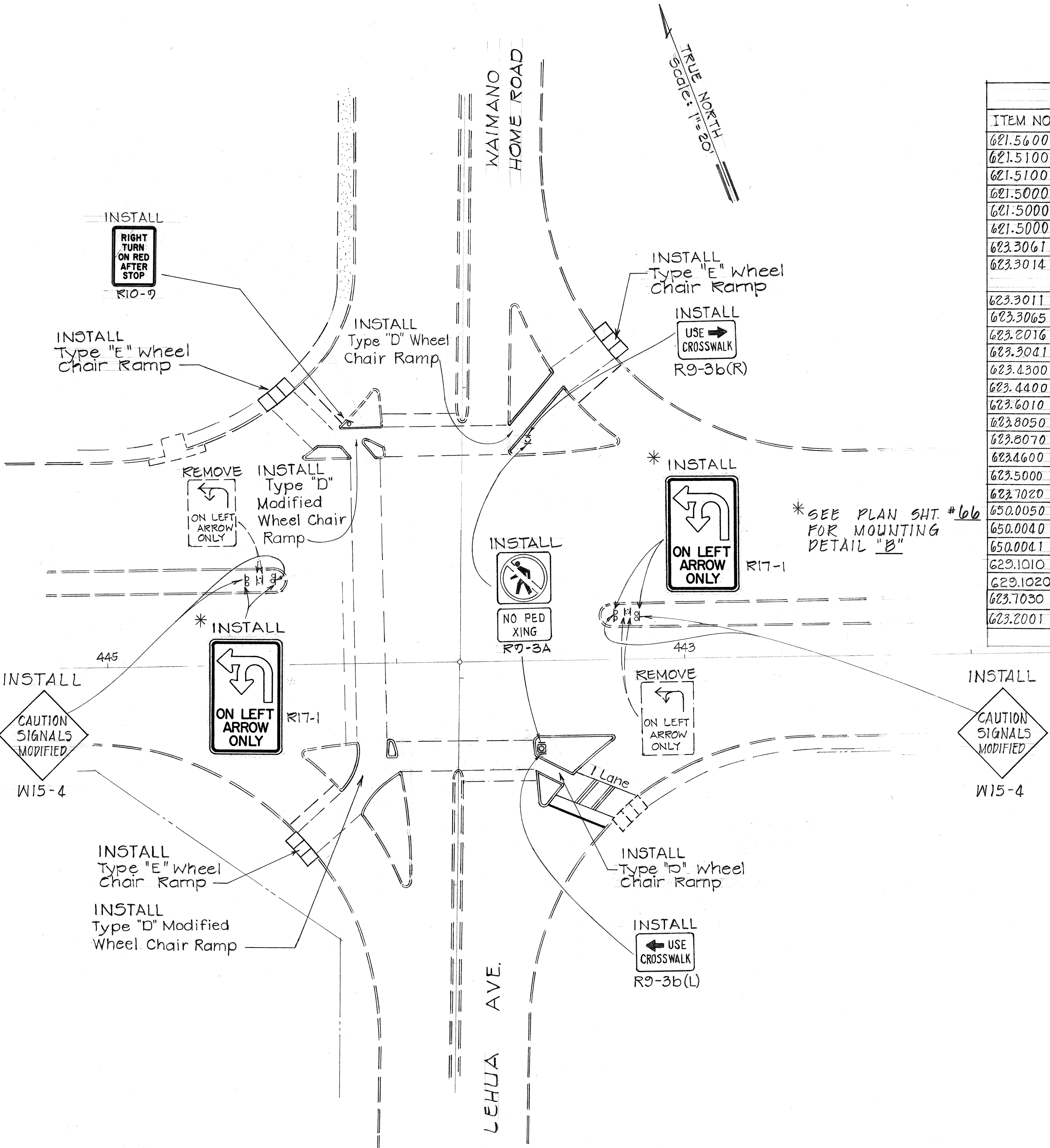
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	



Remove existing Ramp-Downs.
All costs to be incidental
to construction of Wheel
Chair Ramps.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY. 0-03-75	1978	33	79

QUANTITY SUMMARY FOR WAIMANO HOME AT KAM HIGHWAY		
ITEM NO	QUANTITY	DESCRIPTION
621.5600	2 Ea.	Install Temporary W15-4 Sign w/o Post
621.5100	4 Ea.	Install R17-1 Sign w/Posts
621.5100	1 Ea.	Install R10-7 Sign w/Post
621.5000	2 Ea.	Install R7-3a Sign w/o Post
621.5000	1 Ea.	Install R7-3b (L) Sign w/o Post
621.5000	1 Ea.	Install R7-3b (R) Sign w/o Post
623.3061	2 Ea.	One new 12" R,Y,↑ Traffic Signal Head with Type VI Mounting
623.3014	2 Ea.	One new 12" R,Y,← Programmed Visibility Traffic Signal Head and one Relocated 12" R,Y,↑ Traffic Signal Head with Type II Mounting
623.3011	2 Ea.	One new 12" R,Y,← and one new 12" R,Y,G Traffic Signal Heads with Type II Mounting
623.3065	2 Ea.	One Relocated 12" R,Y,↑ Traffic Signal Head with Type VI Mounting
623.2016	2 Ea.	Type II Traffic Signal Standard with 30 Ft. Mastarm and Foundation
623.3041	2 Ea.	Two new 12" R,Y,G Traffic Signal Heads with Type V Mounting
623.4300	2 Ea.	One new Pedestrian Signal Head with Type IV Mounting
623.4400	2 Ea.	Two new Pedestrian Signal Heads with Type V Mounting
623.6010	8 Ea.	Type "B" Pullbox
623.8050	6 Ea.	Loop Detector Sensing Unit (6 Ft. x 6 Ft.) 6 Loops
623.8070	2 Ea.	Loop Detector Sensing Unit (6 Ft. x 8 Ft.) 3 Loops
623.4600	6 Ea.	Pedestrian Push Button w/ R10-4a Sign
623.5000	1065 L.F.	One 2 Inch Conduit
623.7020	1205 L.F.	No. 14 2-Conductor Loop Detector Cable
650.0050	3 Ea.	Type "E" Wheel Chair Ramp
650.0040	2 Ea.	Type "D" Wheel Chair Ramp
650.0041	2 Ea.	Type "b" Modified Wheel Chair Ramp
629.1010	30 L.F.	Pavement Striping
629.1020	1 Lane	Crosswalk Marking
623.7030	400 L.F.	No. 14, 26-conductor Traffic Control Loop Cable
623.2001	1 Ea.	New Multi-phase Traffic Signal Controller, Cabinet and Foundation
	385 L.F.	Pedestrian Pushbutton Control Cable (1-2c#14)



11-15-77	Quantity Summary
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UPGRADE TRAFFIC SIGNALS
AT VARIOUS INTERSECTIONS

KAMEHAMEHA HWY.-WAIMANO HOME RD.
PROJ. NO. HWY. 0-03-75

Scale: 1"=20' Date: April 1977

SHEET NO. 29 OF 49 SHEETS