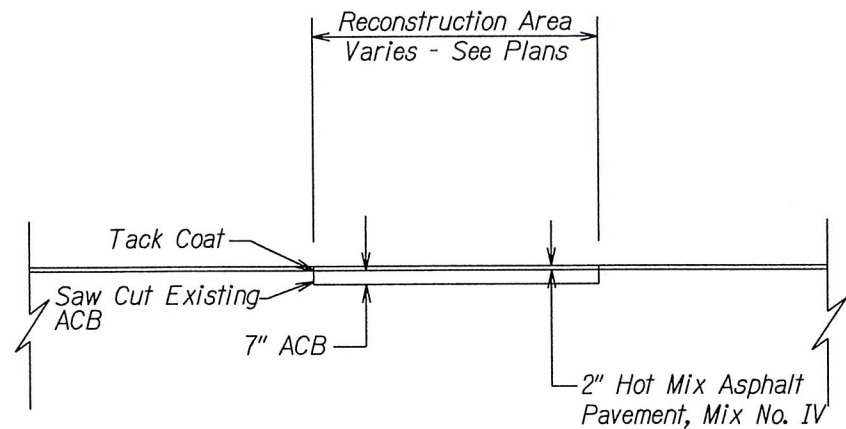
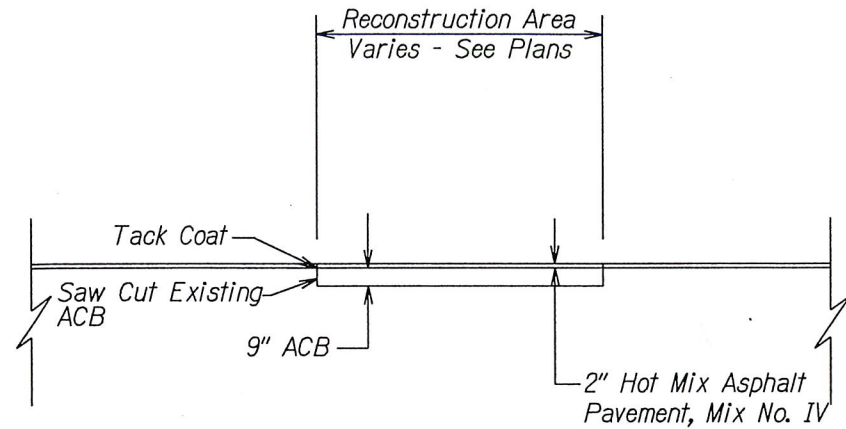


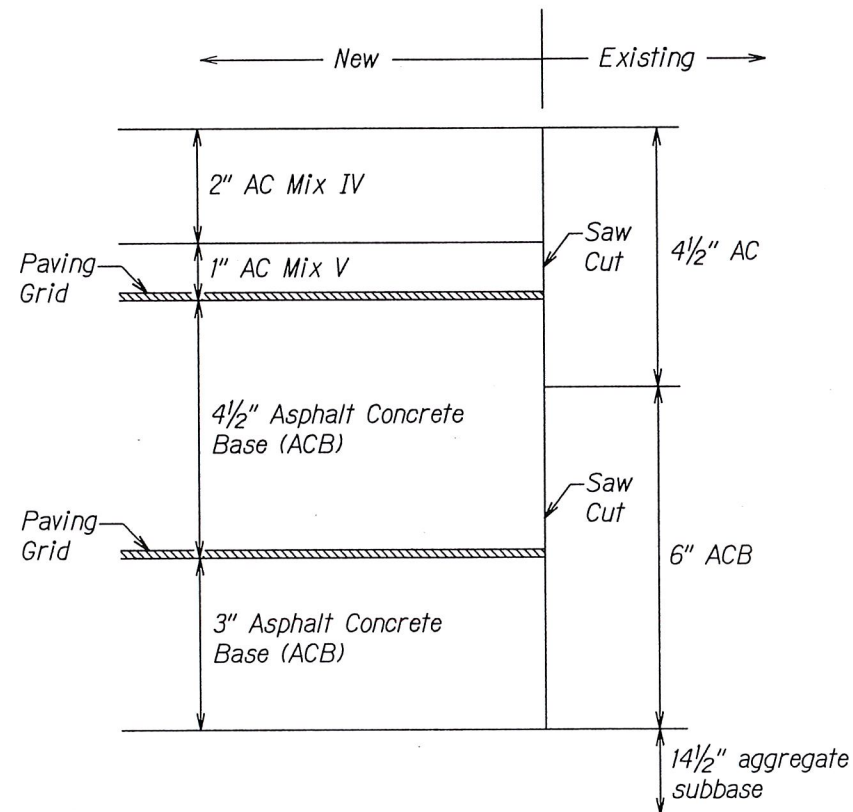
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-7241(002)	2012	ADD. 14	81



**TYPICAL RECONSTRUCTION AREA, KAHUAPAANI STREET**  
Kahuapaani Street, # Sta. 32+88 to # Sta. 63+00  
 Not to Scale

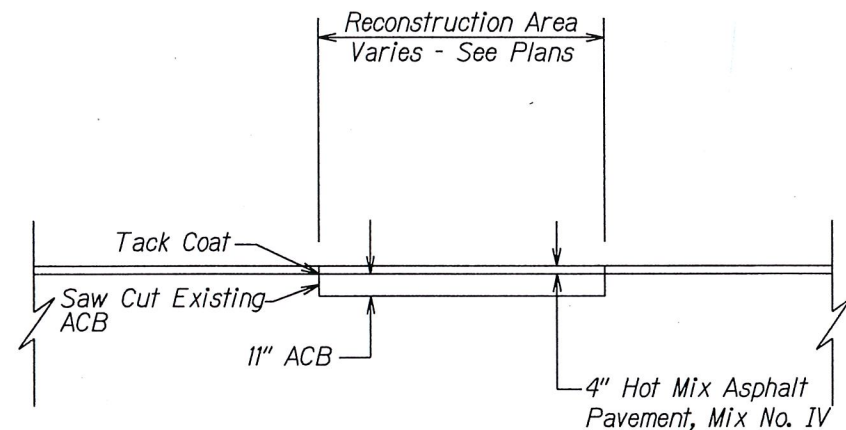


**TYPICAL RECONSTRUCTION AREA**  
Ramp J and Ramp L  
 Not to Scale

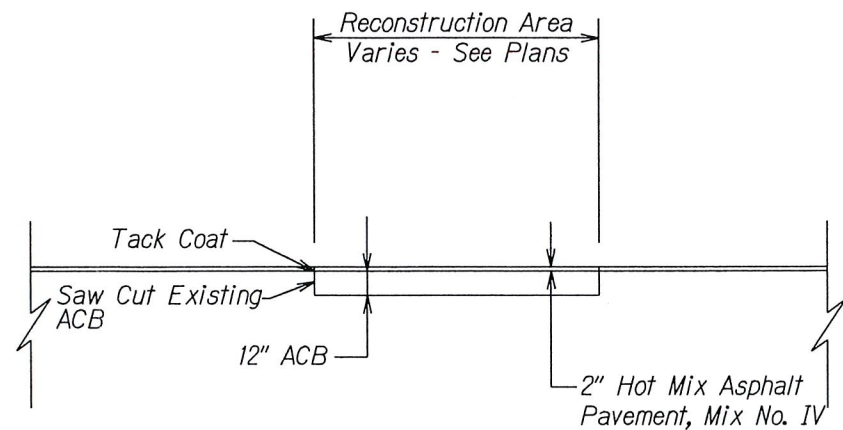


**Note:**  
 Paving Grid  
 See Section 421 - Reconstruction of Bridge Approaches  
 for specifications

**TYPICAL RECONSTRUCTION OF BRIDGE APPROACH**  
# Kahuapaani Street, # Sta. 22+31 to # Sta. 22+56  
 Not to Scale



**TYPICAL RECONSTRUCTION AREA**  
Δ Salt Lake Blvd., # Sta. 34+00 to # Sta. 35+50, O/S Left  
 Not to Scale



**TYPICAL RECONSTRUCTION AREA**  
Salt Lake Blvd., Entrance to Commercial Center, # Sta. 33+00  
 Not to Scale

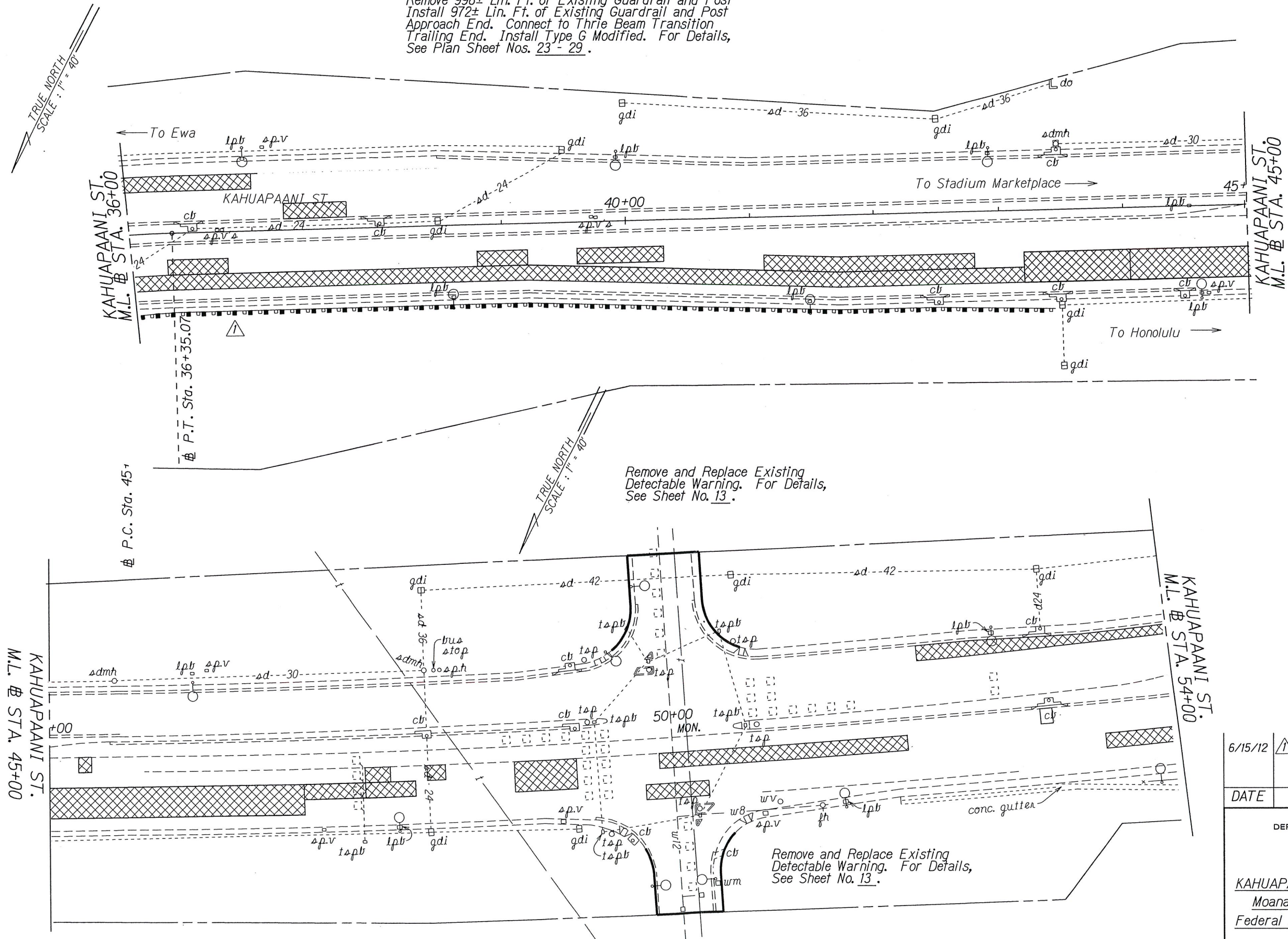
**Note:**  
 No ramping allowed

6/14/12	Removed Recon Area, Kahuapaani St. Δ Revised text "35+60" to "35+50". Δ Added station limits.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION  <b>TYPICAL DETAILS</b> <b>KAHUAPAANI STREET RESURFACING</b> <b>Moanalua Freeway to Salt Lake Boulevard</b> <b>Federal Aid Project No. STP-7241(002)</b>	
Scale: As Noted	Date: May, 2012
SHEET No. 1 OF 1 SHEETS	



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-724(002)	2012	ADD.37	81

Kahuapaani St. @ Sta. 33+00± Rt. to @ Sta. 43+40± Rt.  
Remove 998± Lin. Ft. of Existing Guardrail and Post  
Install 972± Lin. Ft. of Existing Guardrail and Post  
Approach End. Connect to Thrie Beam Transition  
Trailing End. Install Type G Modified. For Details,  
See Plan Sheet Nos. 23 - 29.



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

6/15/12 Added New Guardrail.

DATE REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ROADWAY PLANS**

**KAHUAPAANI STREET RESURFACING**

Moanalua Fwy. to Salt Lake Blvd.

Federal Aid Project No. STP-724(002)

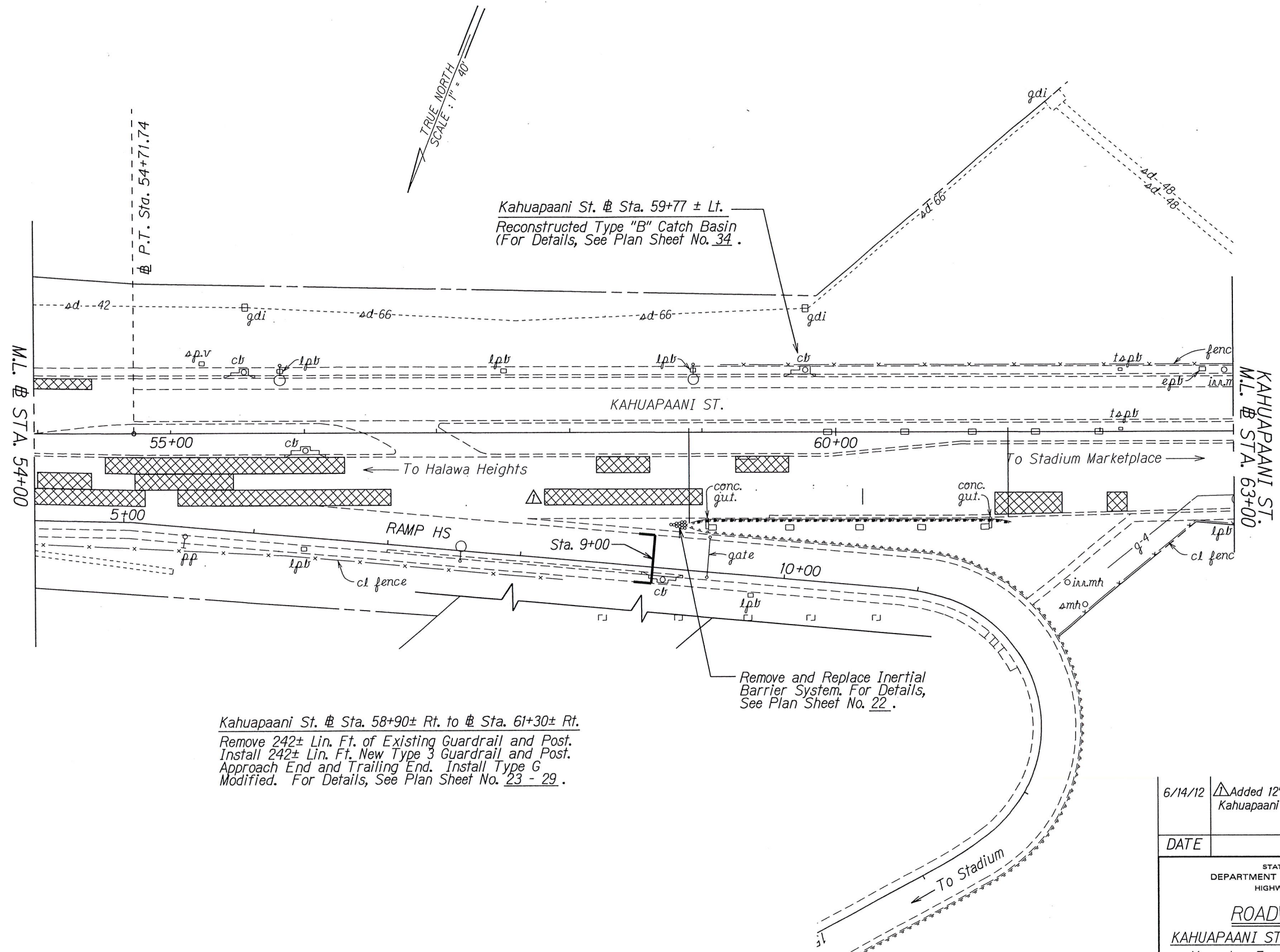
Scale: 1" = 40'

Date: May, 2012

SHEET No. 3 OF 6 SHEETS

**ADD.37**





Kahuapaani St. @ Sta. 59+77 ± Lt.  
Reconstructed Type "B" Catch Basin  
(For Details, See Plan Sheet No. 34.

Kahuapaani St. @ Sta. 58+90± Rt. to @ Sta. 61+30± Rt.  
Remove 242± Lin. Ft. of Existing Guardrail and Post.  
Install 242± Lin. Ft. New Type 3 Guardrail and Post.  
Approach End and Trailing End. Install Type G  
Modified. For Details, See Plan Sheet No. 23 - 29.

Remove and Replace Inertial  
Barrier System. For Details,  
See Plan Sheet No. 22.

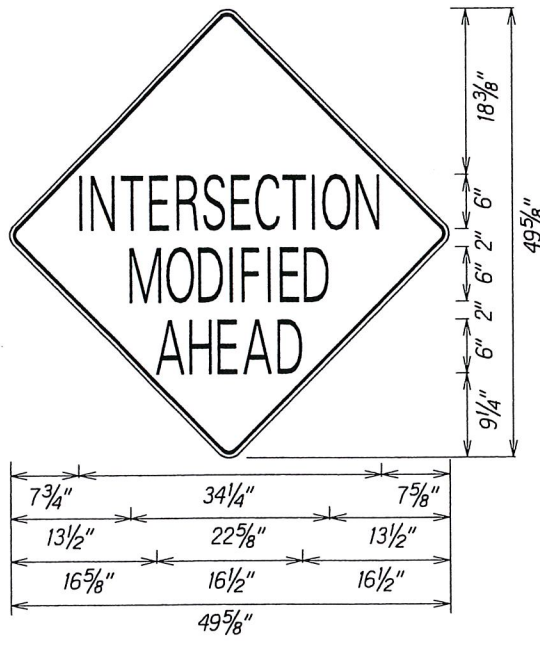
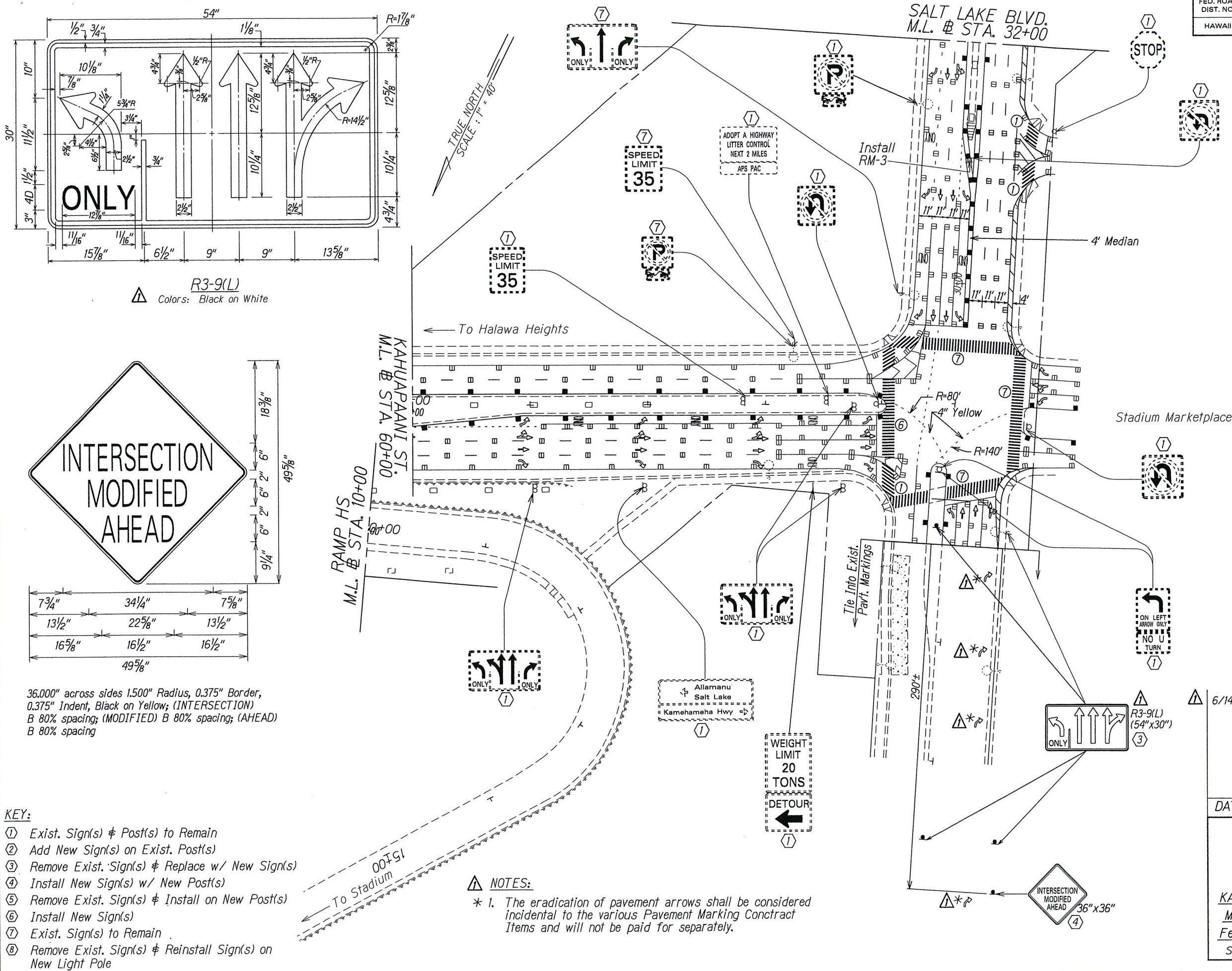
DATE	DESIGNED BY
DESIGNED BY	CHECKED BY
CHECKED BY	NOTED BY
NOTED BY	ORIGINAL PLAN
ORIGINAL PLAN	DATE

6/14/12	Added 12'x120' Recon Area on Kahuapaani Street.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION  <b>ROADWAY PLANS</b> <b>KAHUAPAANI STREET RESURFACING</b> Moanalua Fwy. to Salt Lake Blvd. Federal Aid Project No. STP-724(002)  Scale: 1" = 40'      Date: May, 2012	
SHEET No. 4 OF 6 SHEETS	





FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-7241(002)	2012	ADD.69	81



36.000" across sides 1.500" Radius, 0.375" Border,  
 0.375" Indent, Black on Yellow; (INTERSECTION)  
 B 80% spacing; (MODIFIED) B 80% spacing; (AHEAD)  
 B 80% spacing

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
  - ② Add New Sign(s) on Exist. Post(s)
  - ③ Remove Exist. Sign(s) & Replace w/ New Sign(s)
  - ④ Install New Sign(s) w/ New Post(s)
  - ⑤ Remove Exist. Sign(s) & Install on New Post(s)
  - ⑥ Install New Sign(s)
  - ⑦ Exist. Sign(s) to Remain
  - ⑧ Remove Exist. Sign(s) & Reinstall Sign(s) on New Light Pole

- NOTES:**
- \* 1. The eradication of pavement arrows shall be considered incidental to the various Pavement Marking Contract Items and will not be paid for separately.

DATE	6/14/12	Added Notes. Added Pav't Arrows to be Eradicated. Added Exist. Sign(s) to be Replaced w/ New Signs. Replaced Exist. Sign(s) w/ New Sign(s) & Changed Callout Keys. Included New Sign Detail for R3-9(L).
DATE	REVISION	

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**PAVEMENT MARKING & SIGNING PLAN**

**KAHUAPAANI STREET RESURFACING**  
 Moanalua Freeway to Salt Lake Blvd.  
 Federal Aid Project No. STP-7241(002)

Scale: 1"=40'      Date: April, 2010

SHEET No. 78 OF 15 SHEETS

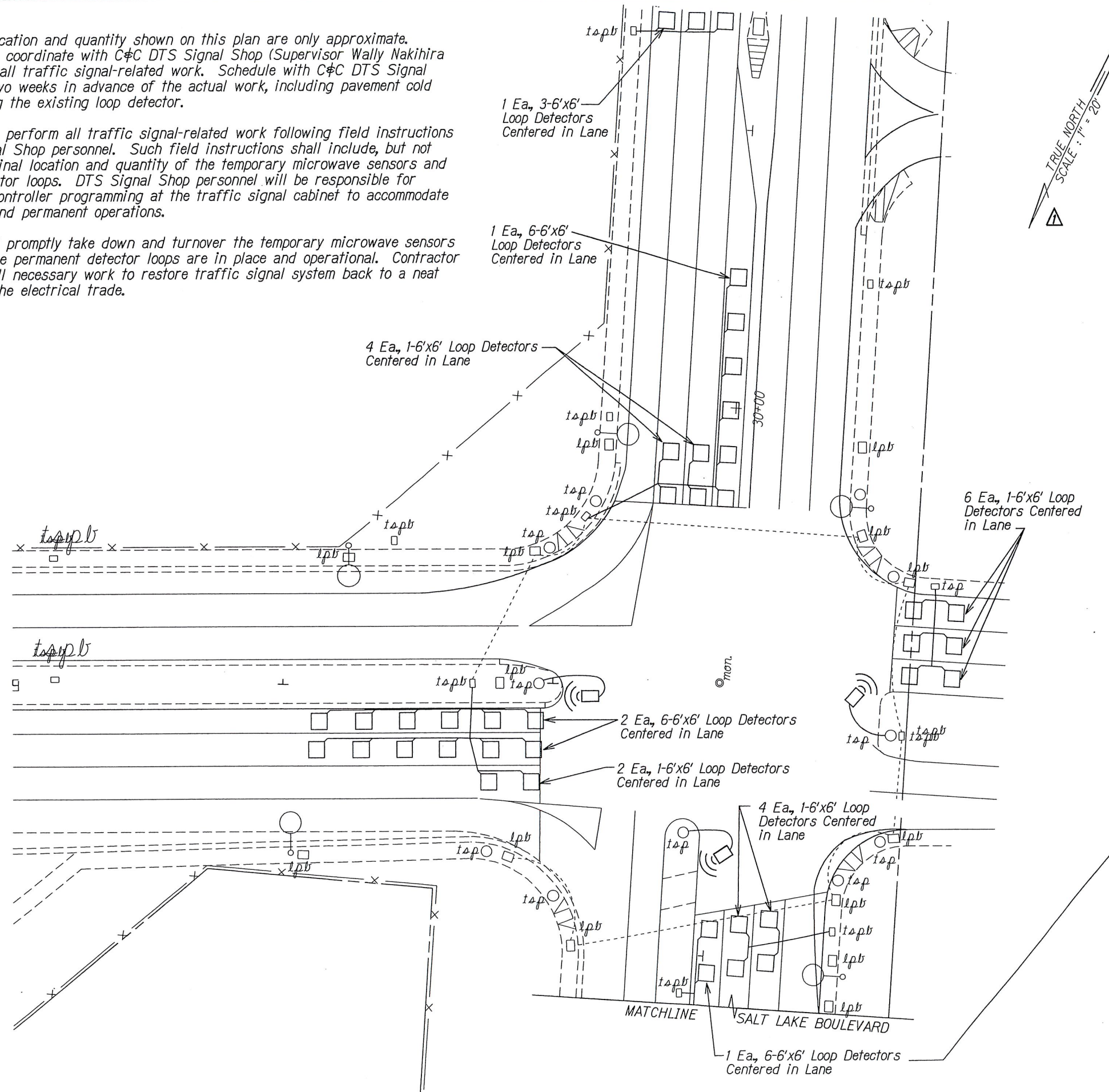
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
FILED	
FILED	



NOTES:

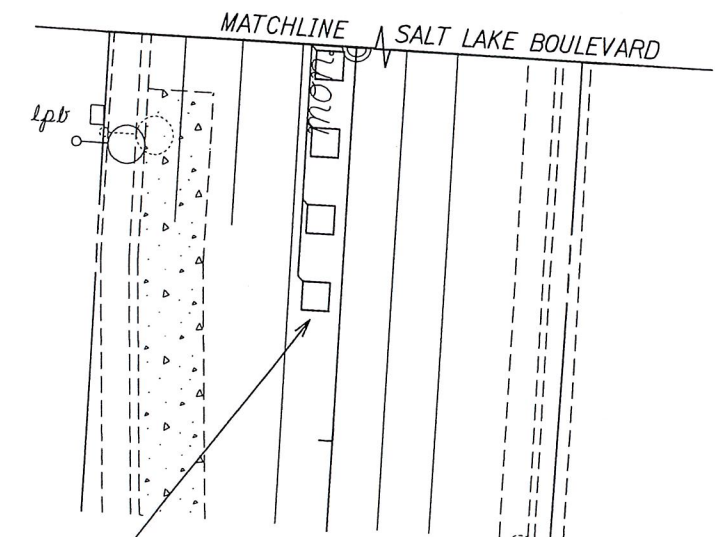
1. Loop detector location and quantity shown on this plan are only approximate. Contractor shall coordinate with C&C DTS Signal Shop (Supervisor Wally Nakihira @ 564-6101) for all traffic signal-related work. Schedule with C&C DTS Signal Shop at least two weeks in advance of the actual work, including pavement cold planing removing the existing loop detector.
2. Contractor shall perform all traffic signal-related work following field instructions from DTS Signal Shop personnel. Such field instructions shall include, but not limited to, the final location and quantity of the temporary microwave sensors and permanent detector loops. DTS Signal Shop personnel will be responsible for traffic signal controller programming at the traffic signal cabinet to accommodate the temporary and permanent operations.
3. Contractor shall promptly take down and turnover the temporary microwave sensors to DTS when the permanent detector loops are in place and operational. Contractor shall perform all necessary work to restore traffic signal system back to a neat appearance of the electrical trade.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-7241(002)	2012	ADD.75	81



TRAFFIC SIGNAL LEGEND:

- tsp Existing Traffic Signal Pole
- Temporary Microwave Detector
- New Loop Detectors



DATE	REVISION
6/14/12	Revised Scale on North Arrow

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
<b>LOOP DETECTOR PLAN</b>
KAHUAPAANI STREET RESURFACING Moanalua Freeway to Salt Lake Blvd. Federal Aid Project No. STP-7241(002)
Scale: 1"=20' Date: April 2010
SHEET No. T14 OF 15 SHEETS

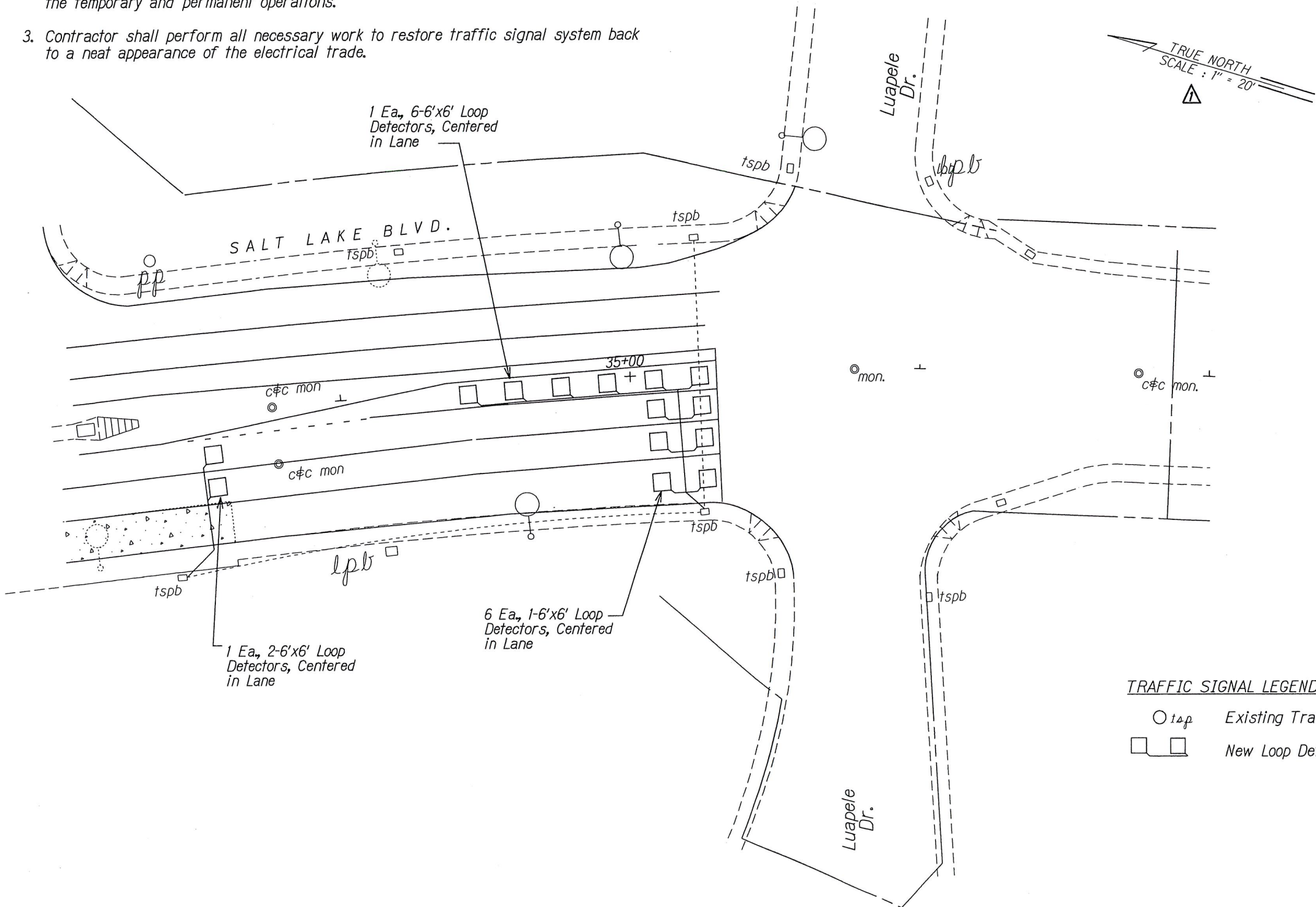
ADD. 75

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
DATE	



NOTES:

1. Loop detector location and quantity shown on this plan are only approximate. Contractor shall coordinate with C&C DTS Signal Shop (Supervisor Wally Nakihira @ 564-6101) for all traffic signal-related work. Schedule with C&C DTS Signal Shop at least two weeks in advance of the actual work, including pavement cold planing removing the existing loop detector.
2. Contractor shall perform all traffic signal-related work following field instructions from DTS Signal Shop personnel. Such field instructions shall include, but not limited to, the final location and quantity of the temporary microwave sensors and permanent detector loops. DTS Signal Shop personnel will be responsible for traffic signal controller programming at the traffic signal cabinet to accommodate the temporary and permanent operations.
3. Contractor shall perform all necessary work to restore traffic signal system back to a neat appearance of the electrical trade.



TRAFFIC SIGNAL LEGEND:

- t<sub>sp</sub> Existing Traffic Signal Pole
- □ New Loop Detectors

DATE	6/14/12	Revised Scale on North Arrow
DATE		REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**LOOP DETECTOR PLAN**

KAHUAPAANI STREET RESURFACING  
Moanalua Freeway to Salt Lake Blvd.  
Federal Aid Project No. STP-724(002)

Scale: 1"=20' Date: April 2010

SHEET No. T15 OF 15 SHEETS