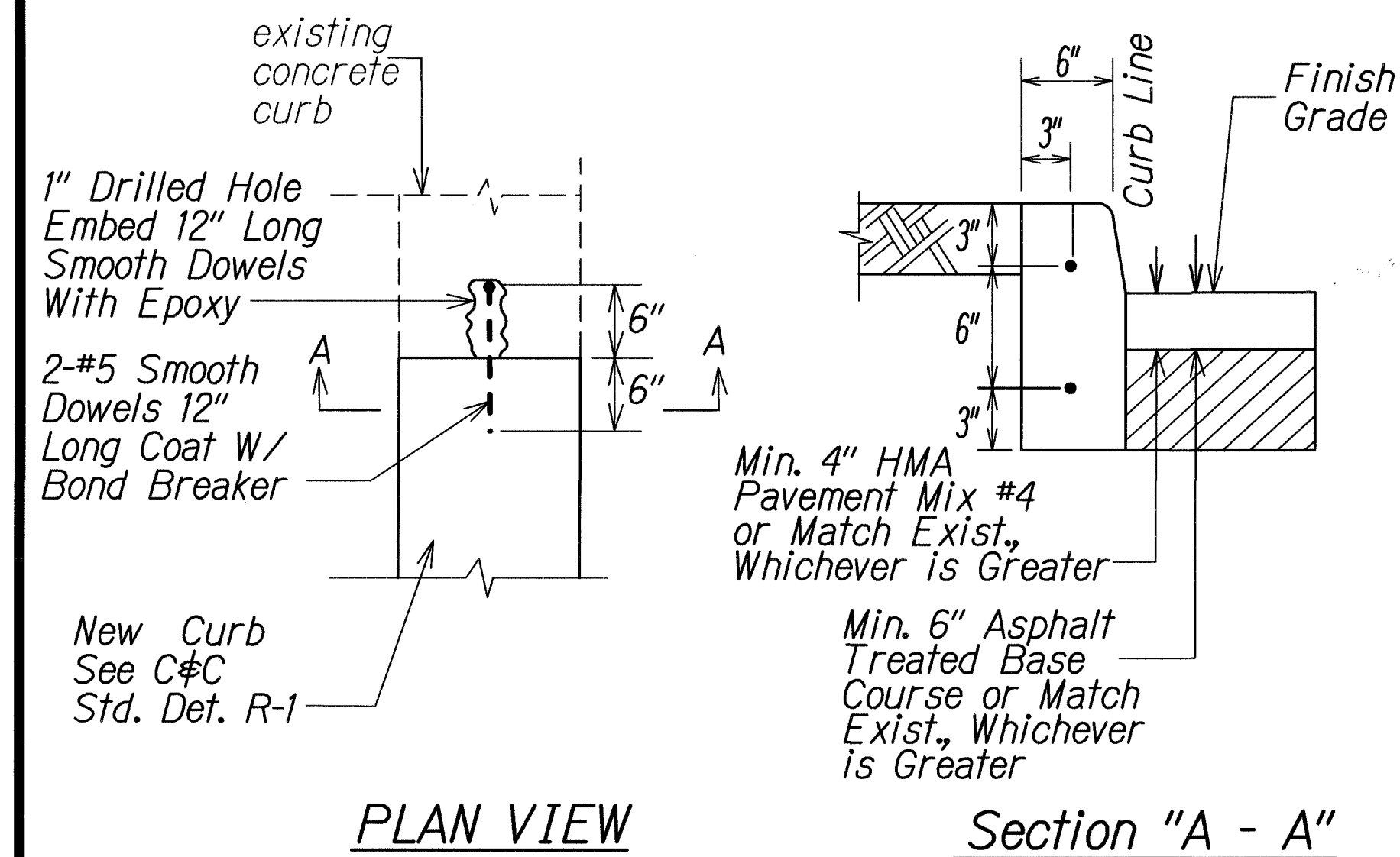
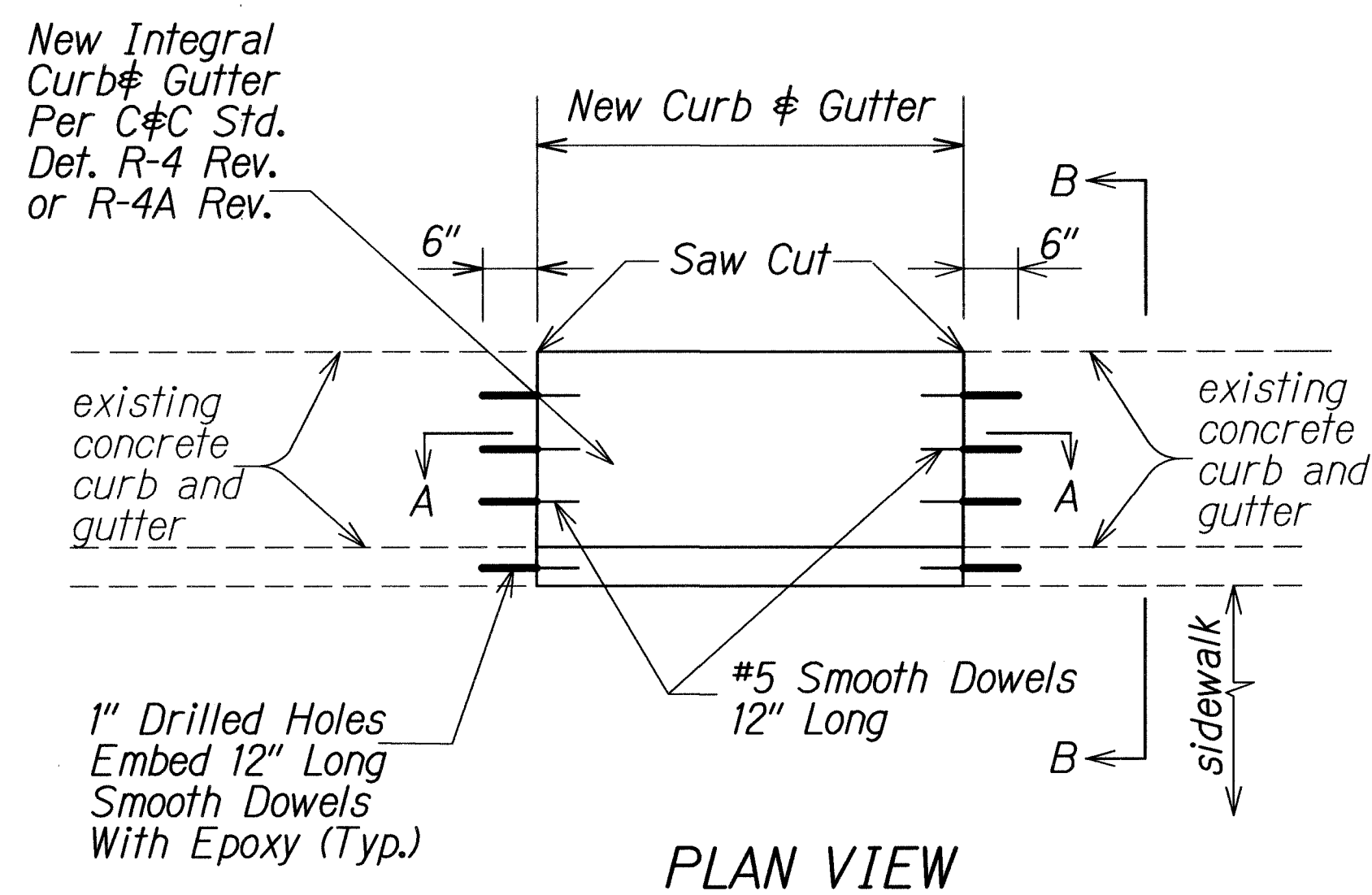


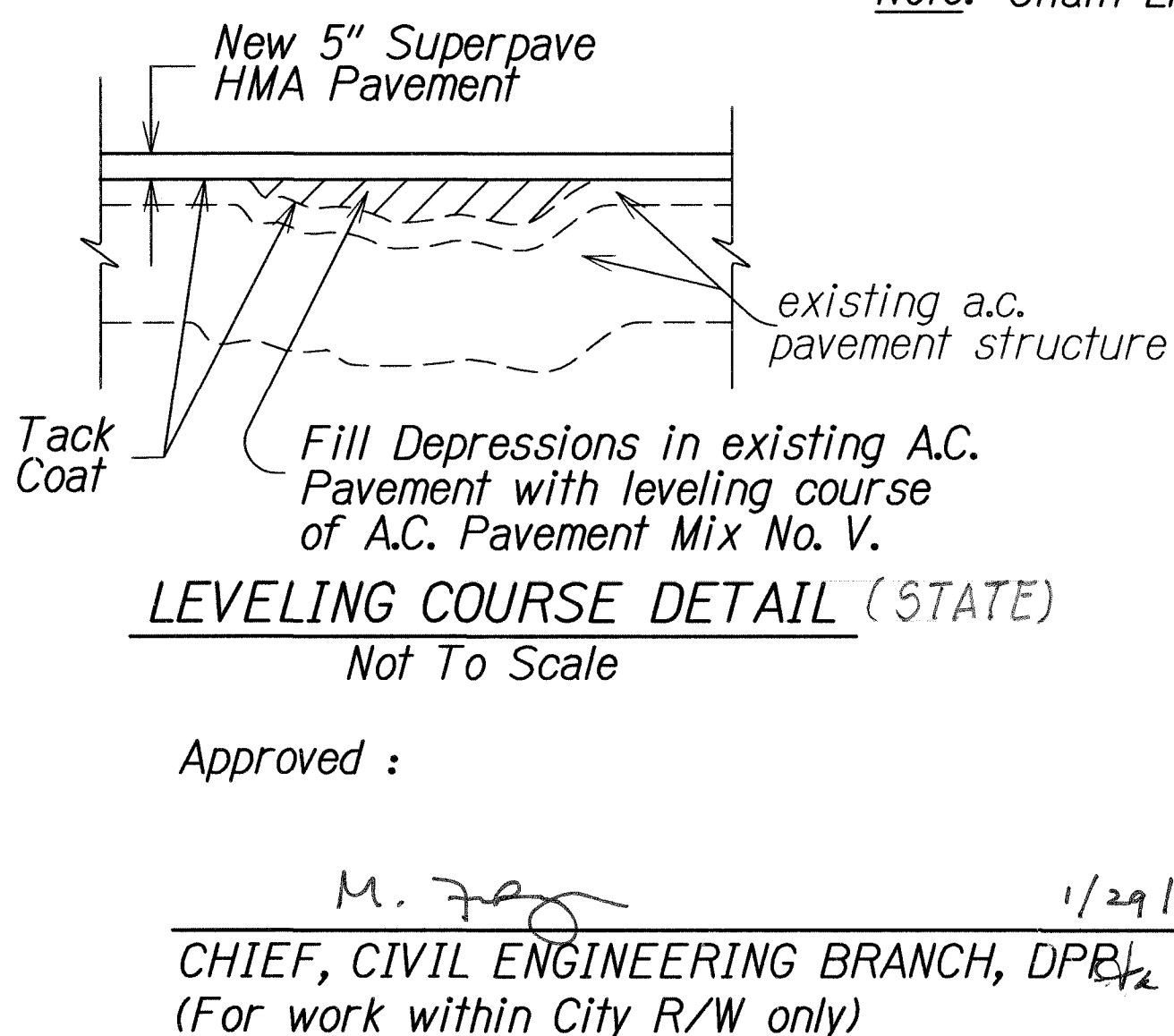
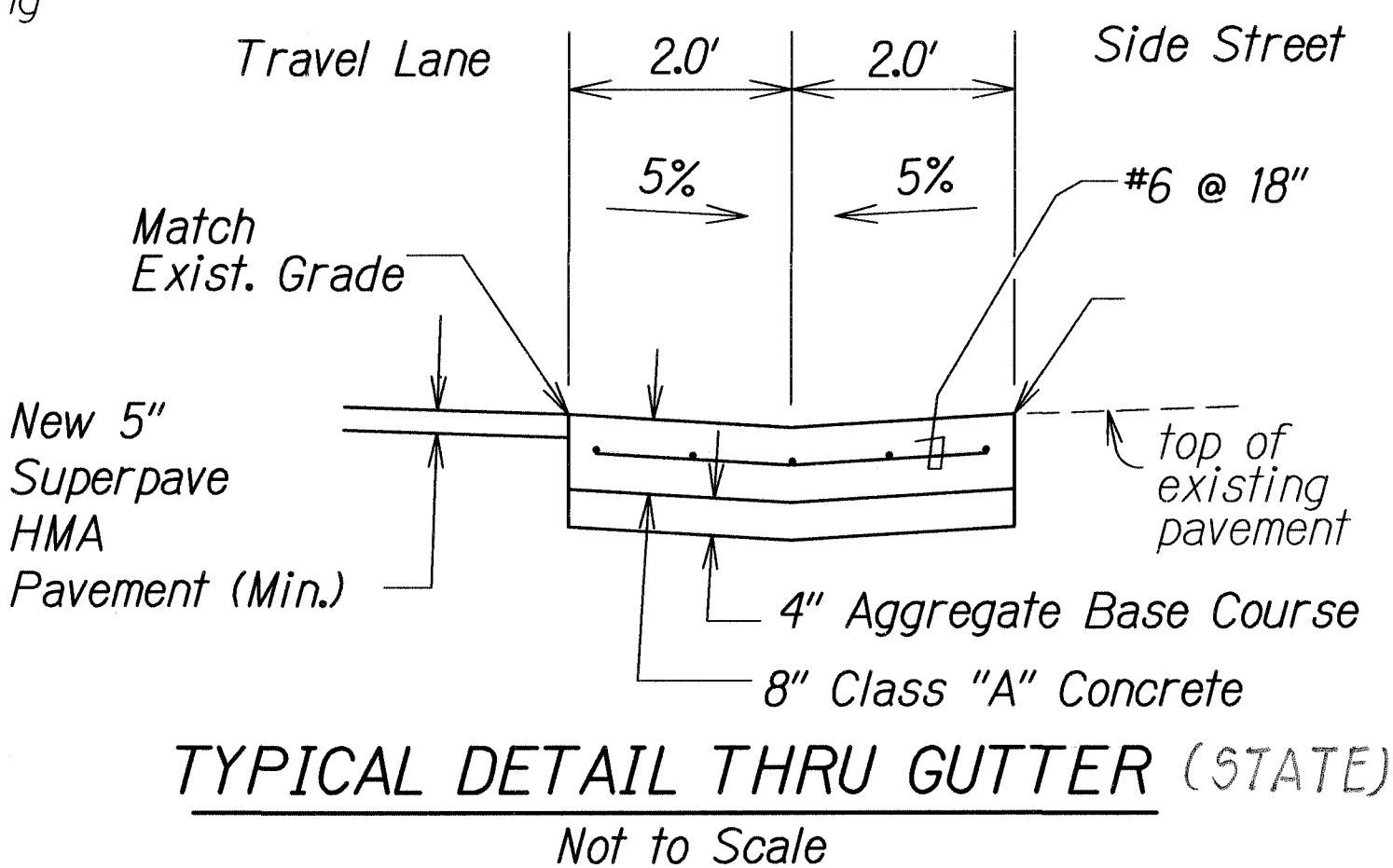
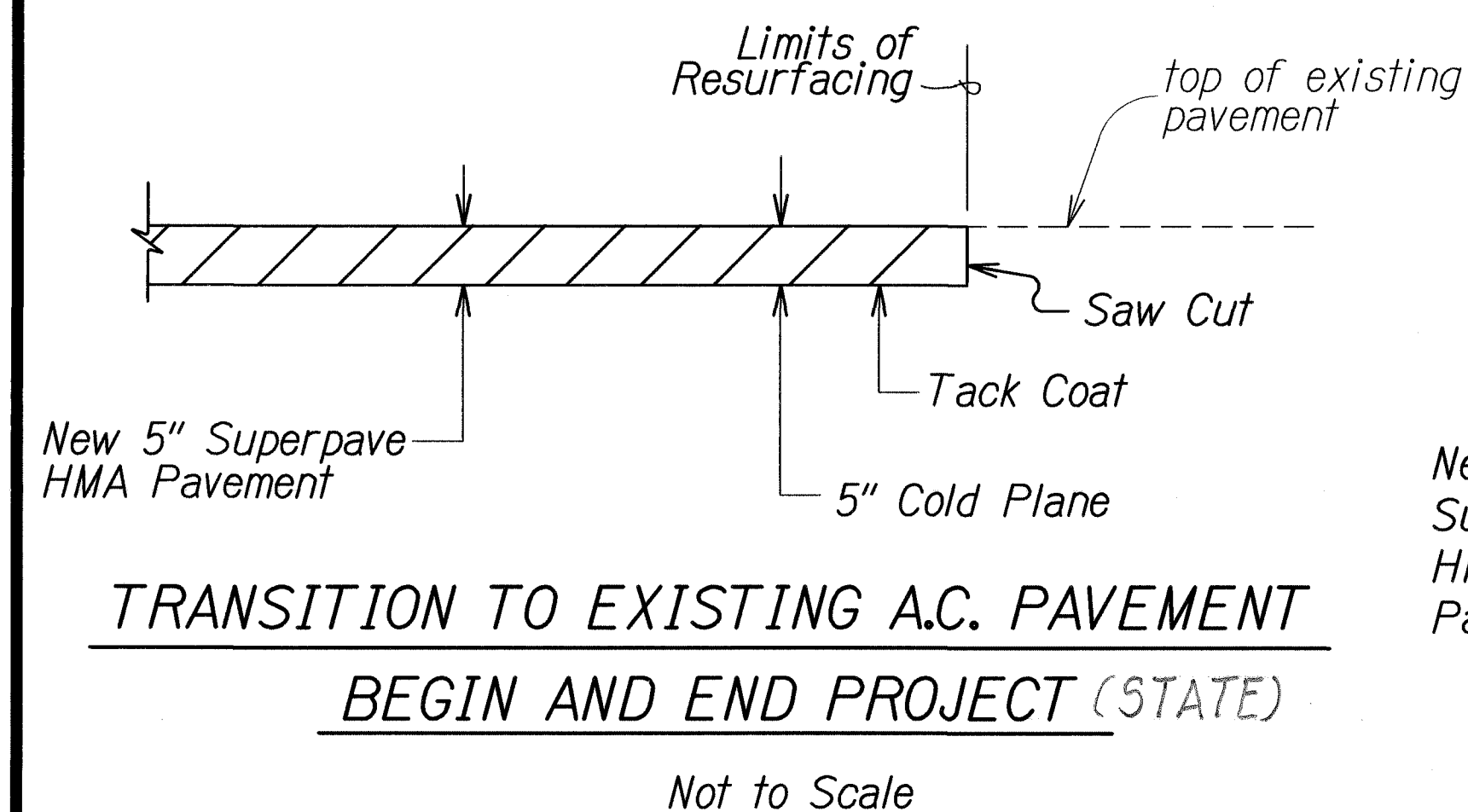
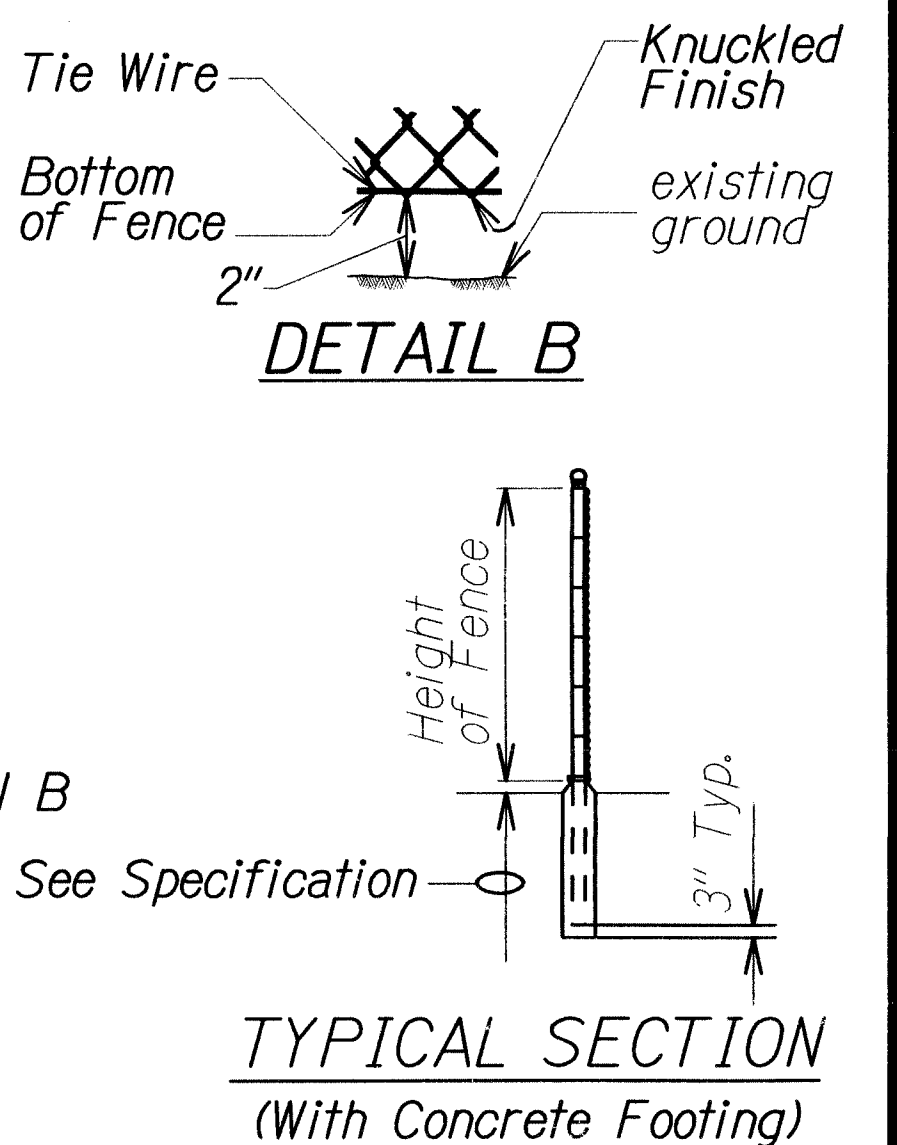
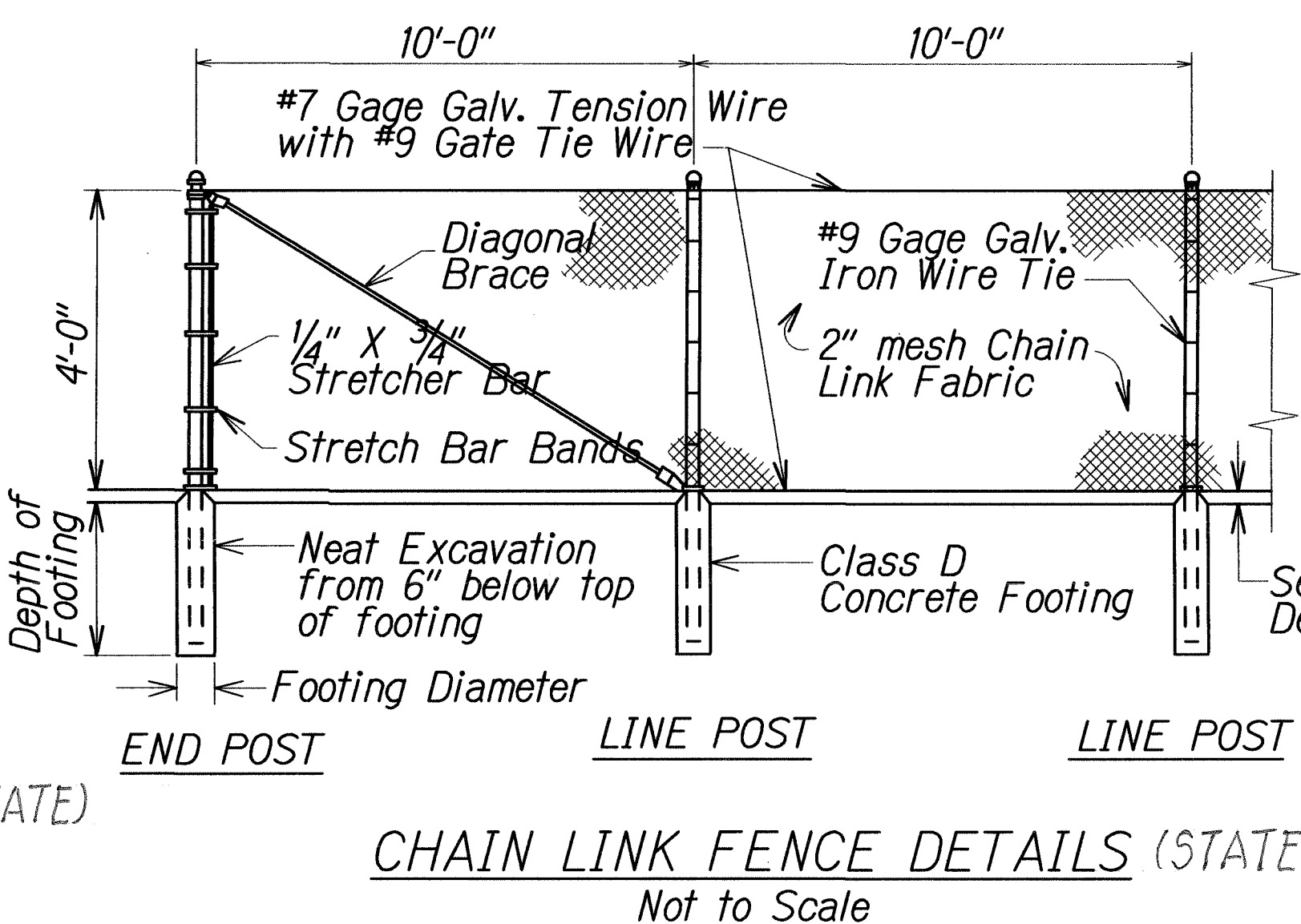
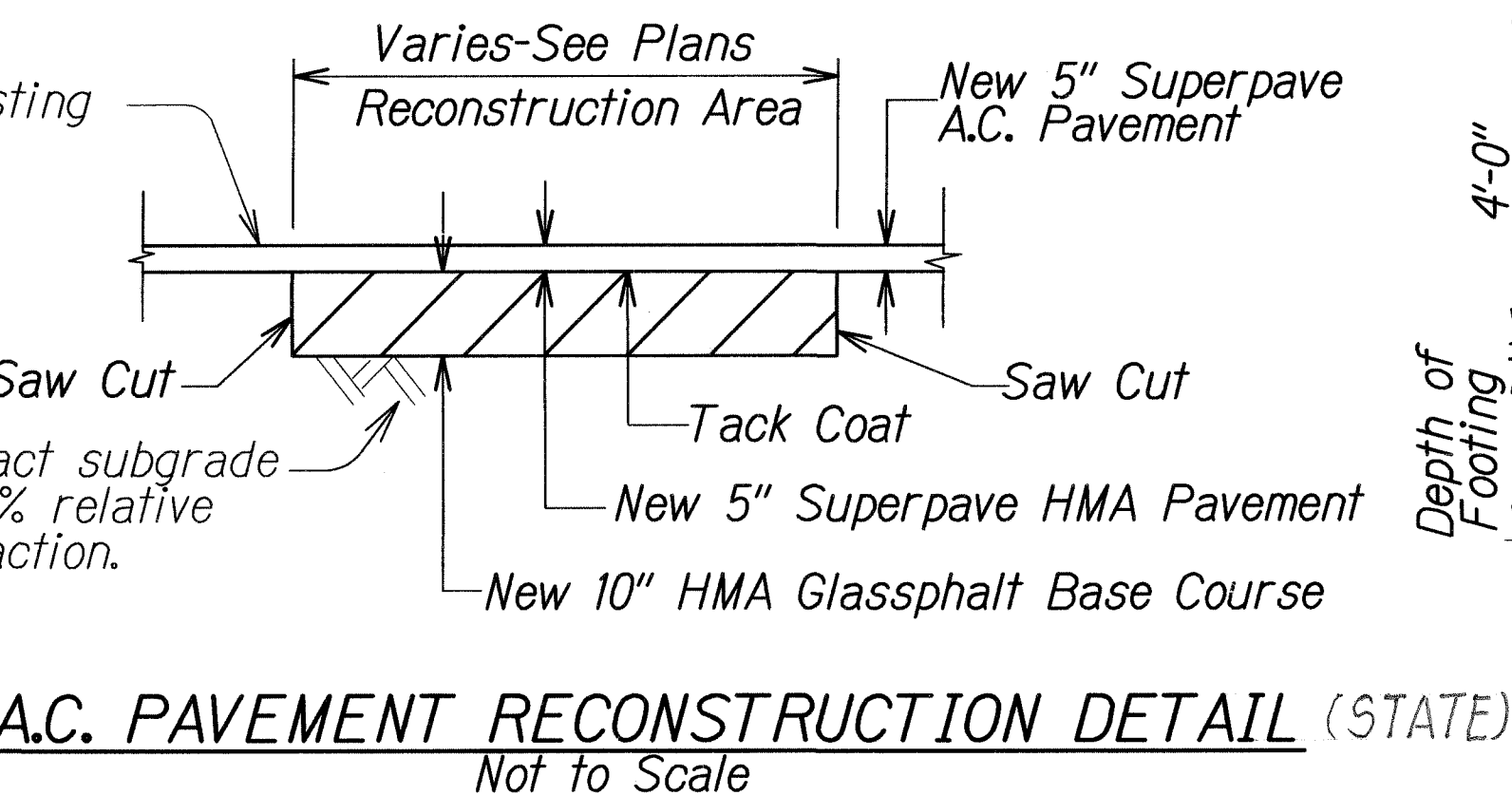
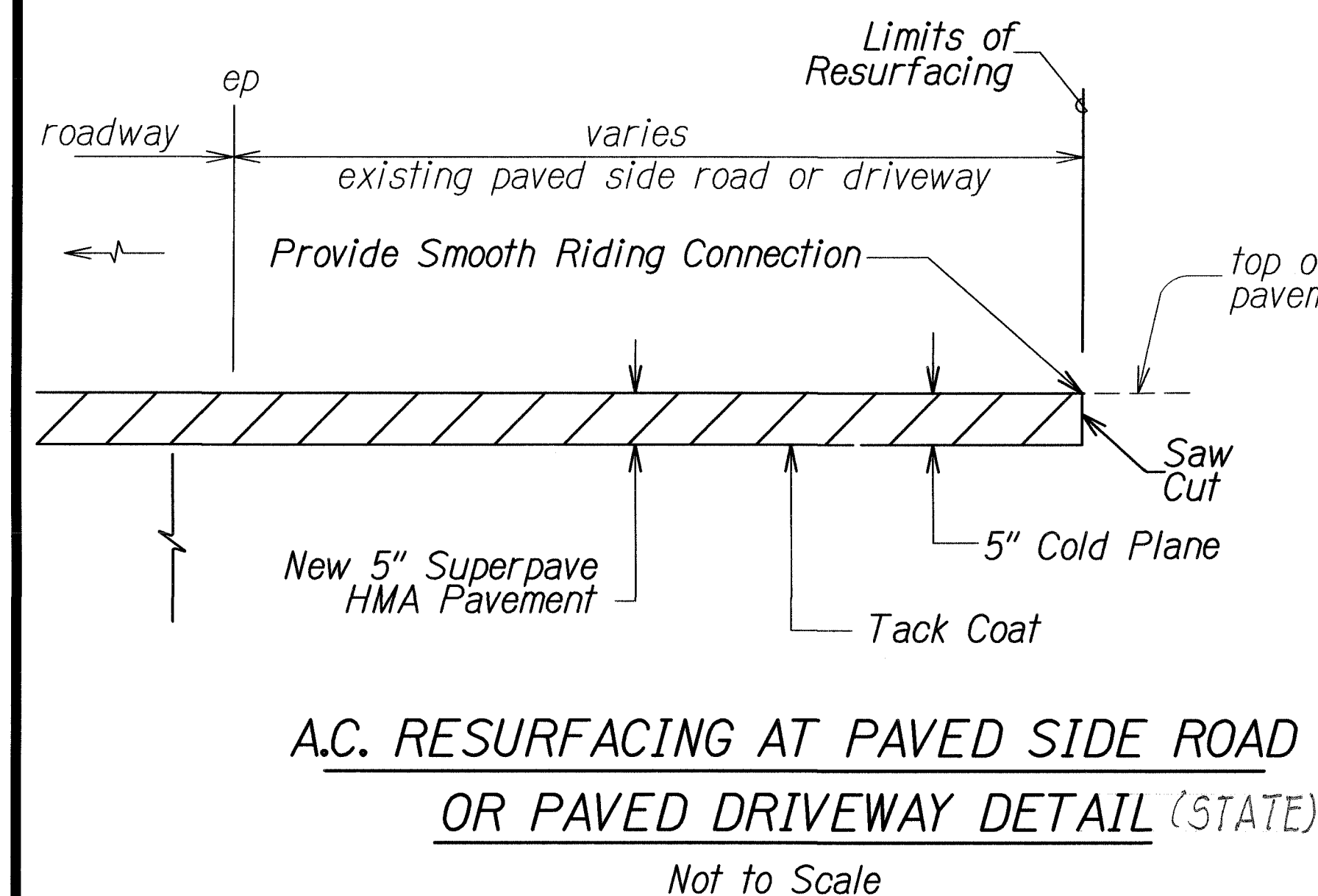
| FED. ROAD DIST. NO. | STATE | PROJ. NO.    | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(27) | 2009        | ADD. 16   | 302          |



**CITY & COUNTY CAST IN PLACE CURB**  
Not to Scale



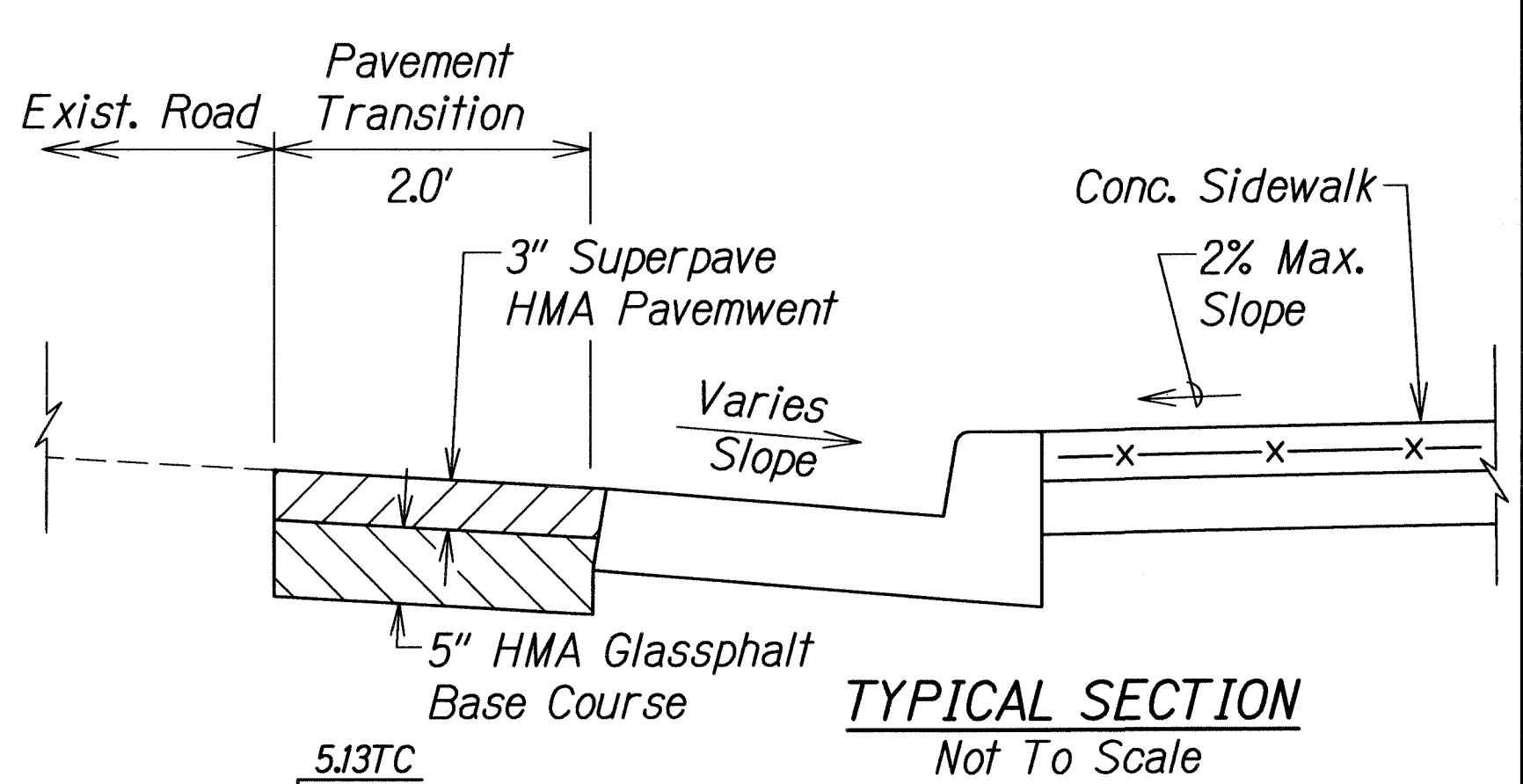
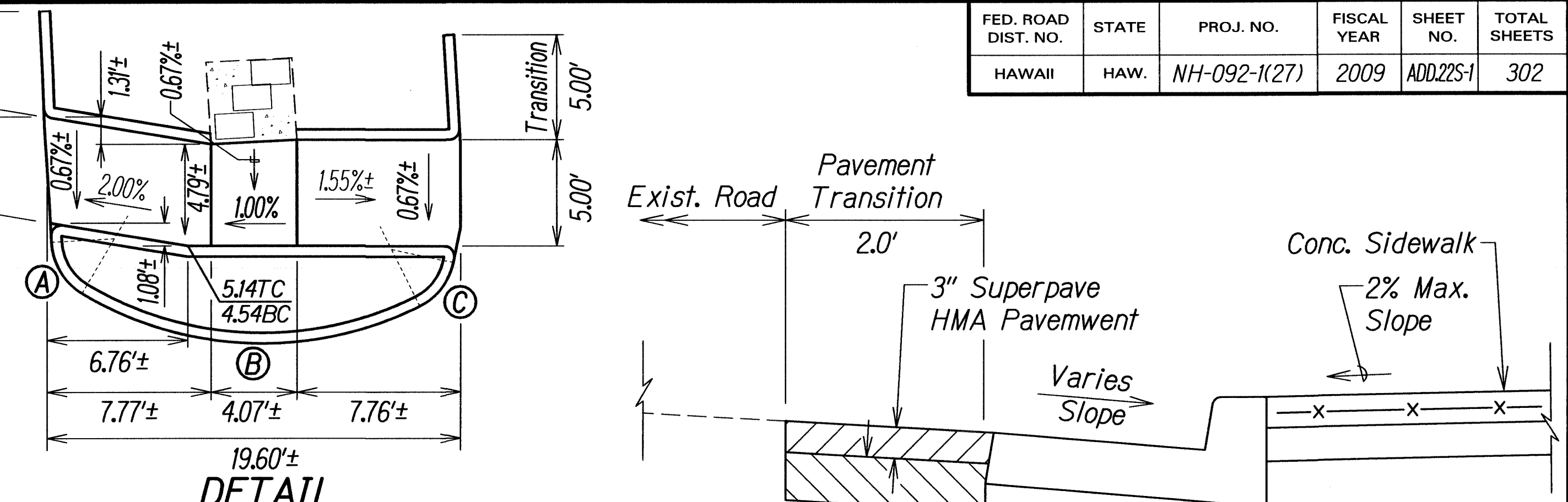
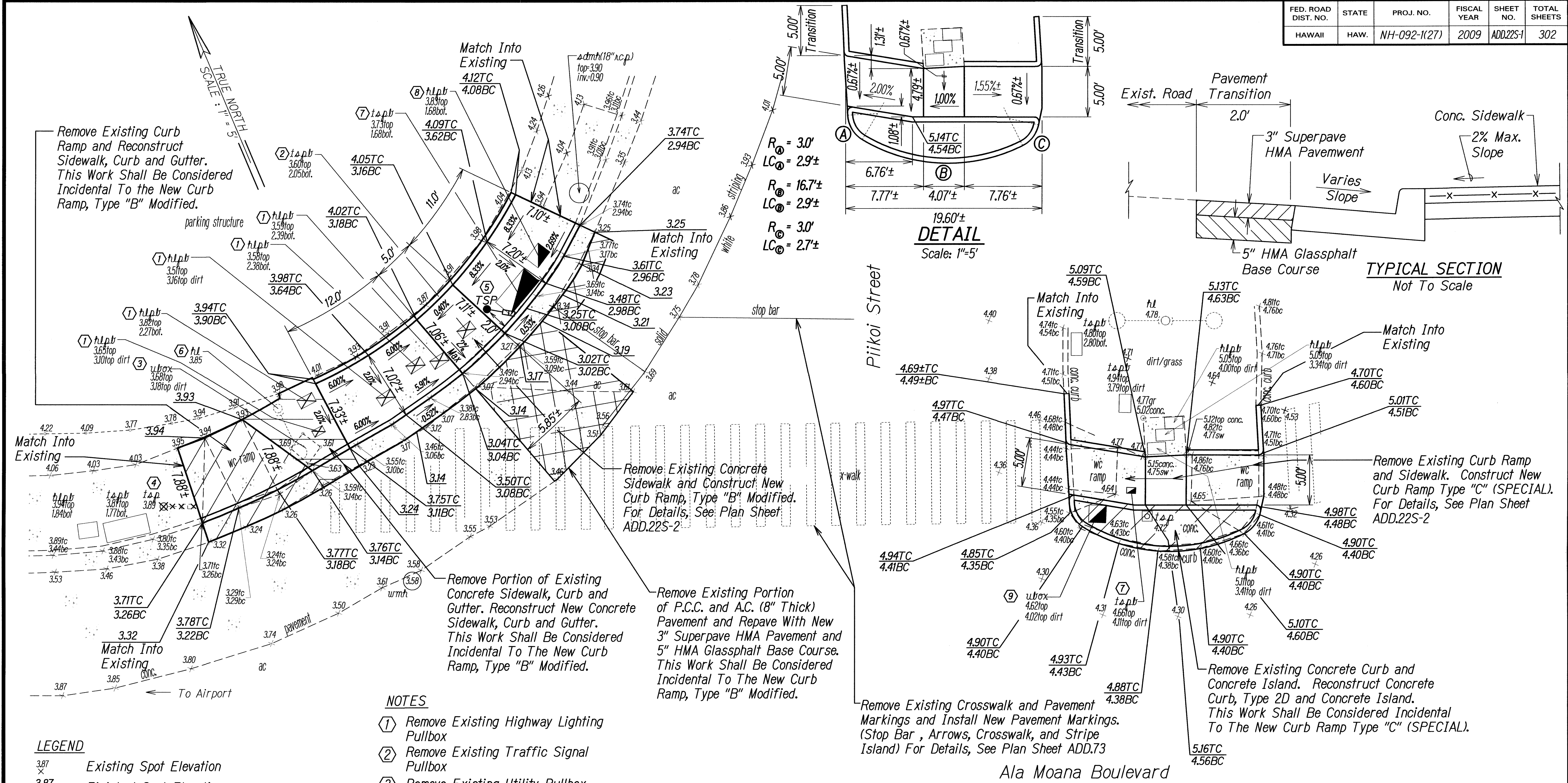
**CITY & COUNTY CAST IN PLACE CURB & GUTTER**  
Not to Scale



| 1/14/2010   | Add City and County Cast In Place Curb Detail and Civil Engineering Branch Approval Signature. |
|---|--|
| DATE  | REVISION   |
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>TYPICAL DETAILS</b><br><b>NIMITZ HIGHWAY AND</b><br><b>ALA MOANA BOULEVARD RESURFACING</b><br><b>AND HIGHWAY LIGHTING REPLACEMENT</b><br><b>Fort Street to Kalakaua Avenue</b><br><b>Federal Aid Project No. NH-092-1(27)</b><br>Scale: Not to Scale Date: March 2008<br>SHEET No. 3 OF 3 SHEETS |  |

|               |      |
|---------------|------|
| ORIGINAL PLAN | DATE |
| DRAWN BY      |      |
| DESIGNED BY   |      |
| CHECKED BY    |      |
| NOTED BY      |      |
| DATE          |      |

| FED. ROAD DIST. NO. | STATE | PROJ. NO.    | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(27) | 2009        | ADD.22S-1 | 302          |



- NOTES**
- Remove Existing Highway Lighting Pullbox
  - Remove Existing Traffic Signal Pullbox
  - Remove Existing Utility Pullbox
  - Remove Existing Traffic Signal Standard with Pedestrian Signal. Demolish Concrete Base 2 Ft. Below Finish Grade and Backfill Pit To 95% Compaction. Restore Concrete Sidewalk to Match Existing.
  - Install New 8' Traffic Signal Pole, Type I with New Pedestrian Signal
  - Existing Highway Lighting Standard To be Removed (Refer to Electrical Plans)
  - Adjust Existing Traffic Signal Pullbox
  - Adjust Existing Highway Lighting Pullbox
  - Adjust Existing Utility Box

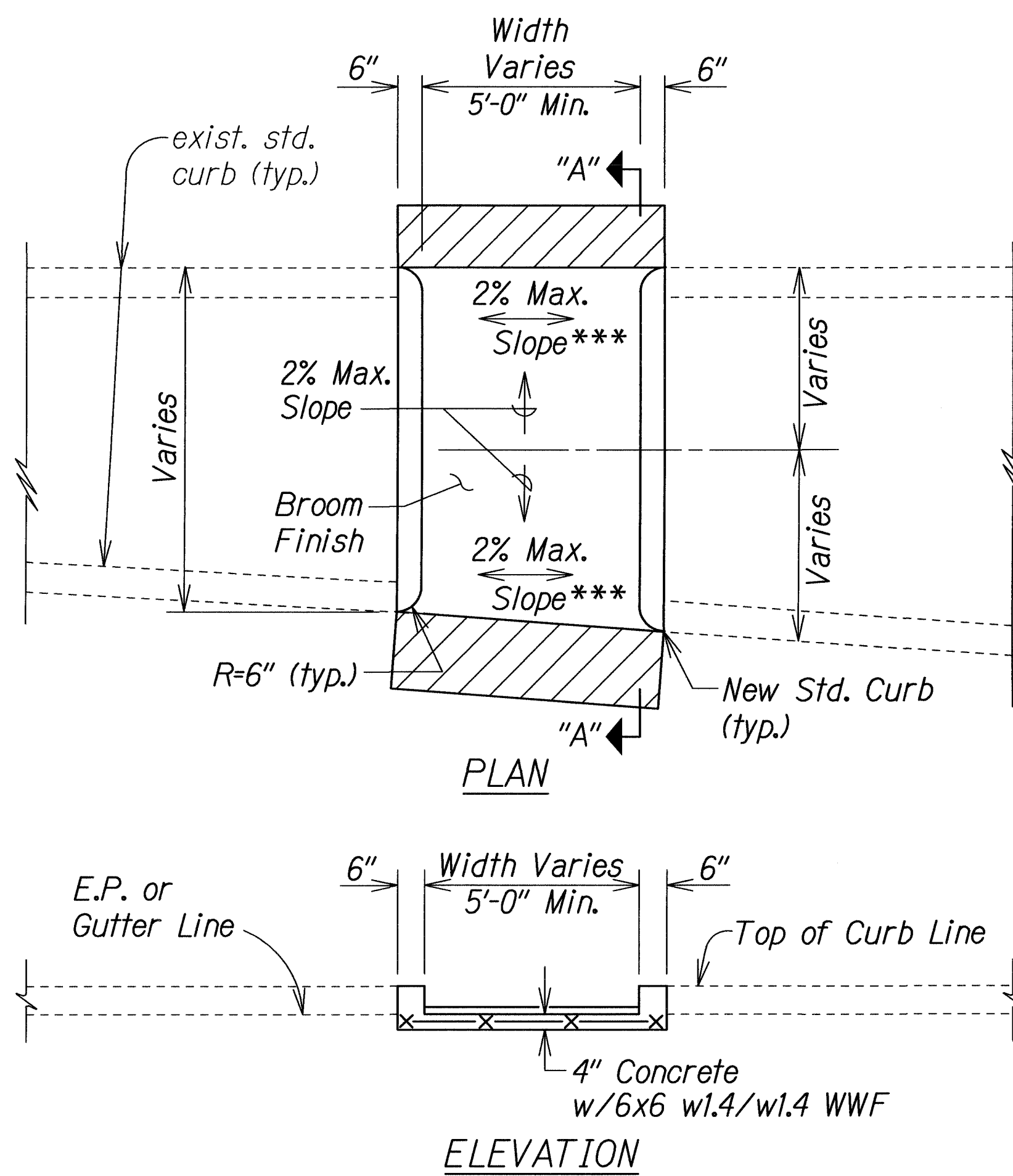
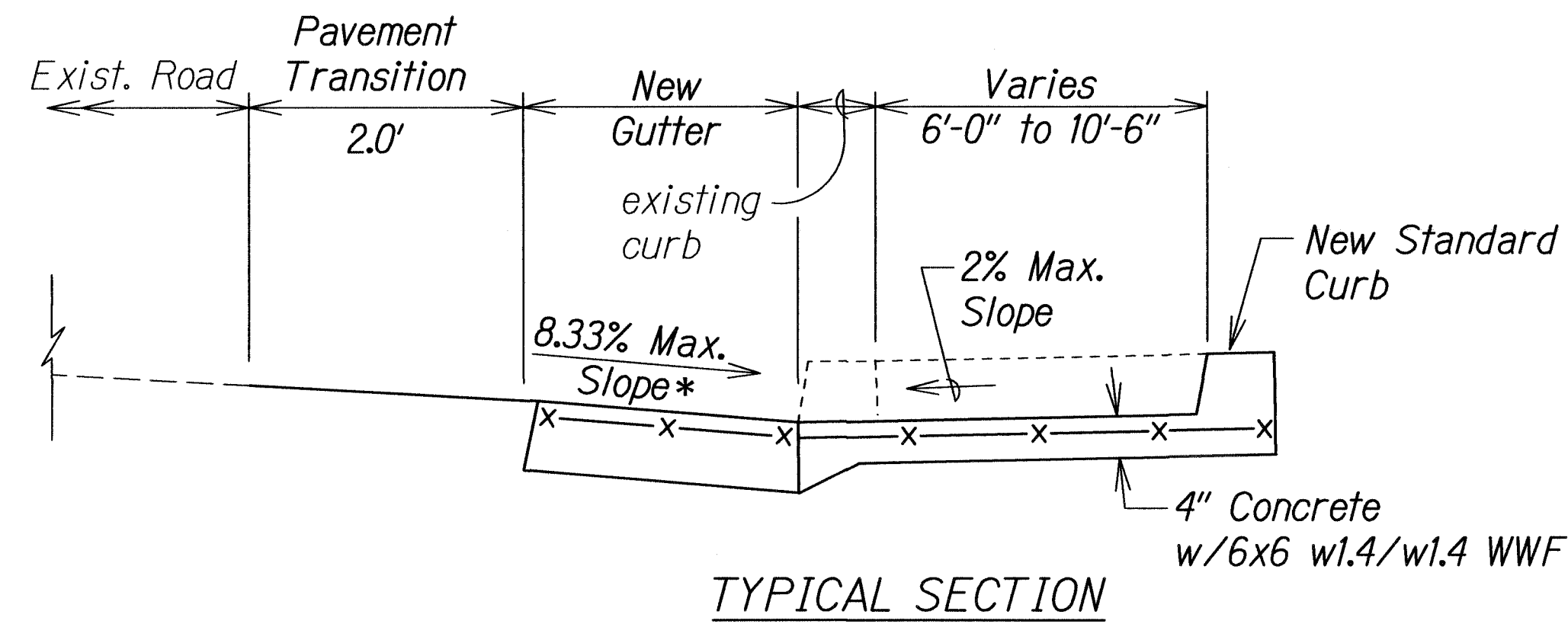
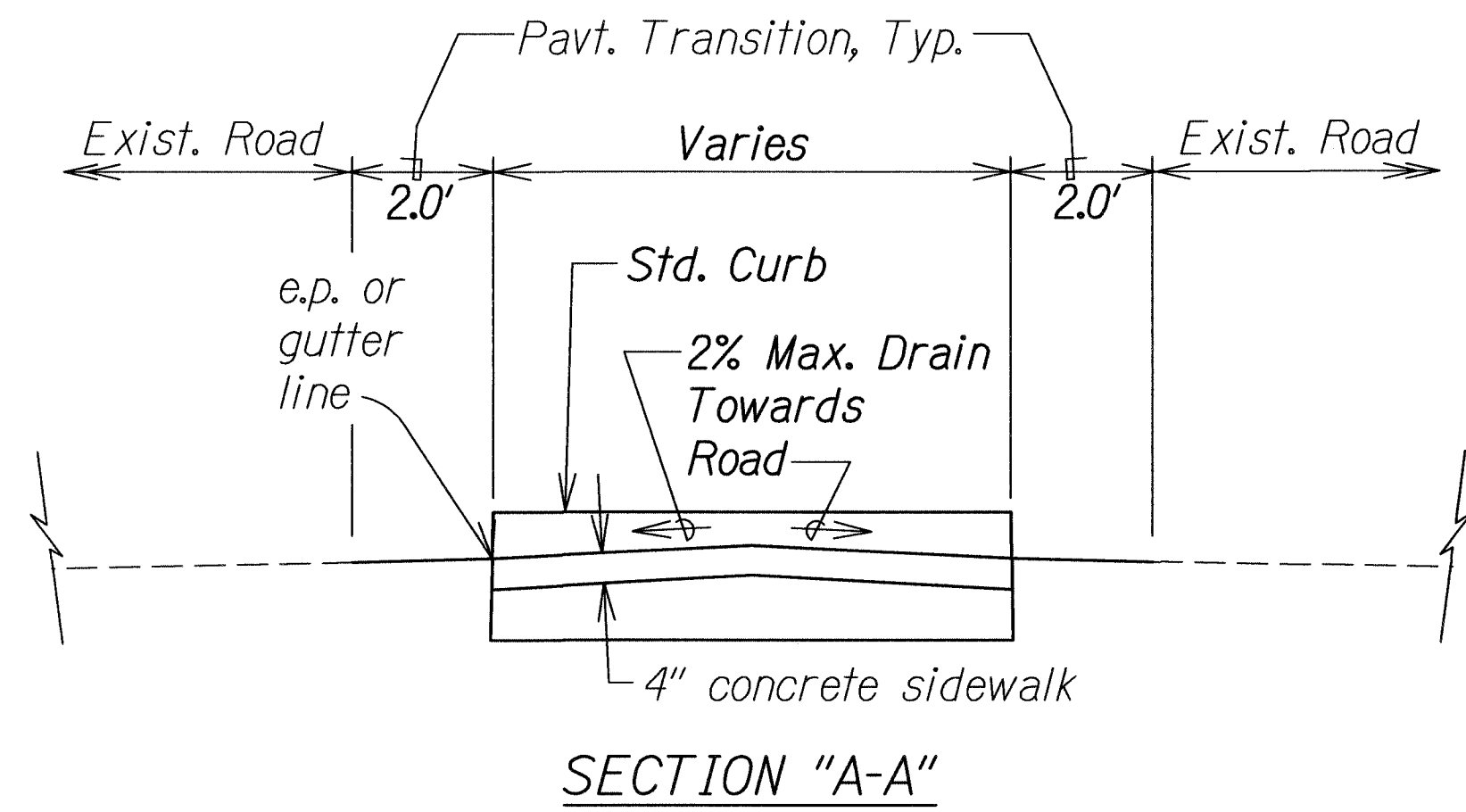
- LEGEND**
- Existing Spot Elevation
  - Finished Spot Elevation
  - Finished Spot Elevation - Top Of Curb
  - Finished Spot Elevation - Bottom Of Curb
  - Existing Highway Lighting Pullbox
  - Existing Traffic Signal Pullbox
  - Existing Utility Pullbox
  - New Traffic Signal Pole
  - Existing Traffic Signal Pole
  - Existing Pedestrian Signal Head
  - New Pedestrian Signal Head

**CURB RAMP DETAILS**  
**INTERSECTION OF**  
**ALA MOANA BOULEVARD AND PIIKOI STREET**

| 2/4/10   | Added New Sheet. |
|--|------------------|
| DATE   | REVISION         |
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION |                  |
| <b>CURB RAMP DETAILS</b>   |                  |
| <b>NIMITZ HIGHWAY AND</b>  |                  |
| <b>ALA MOANA BOULEVARD RESURFACING</b>                               |                  |
| <b>AND HIGHWAY LIGHTING REPLACEMENT</b>                              |                  |
| <b>Federal Aid Project No. NH-092-1(27)</b>                          |                  |
| Scale: 1" = 5'   | Date: Jan. 2010  |
| SHEET No. 1 OF 2 SHEETS  |                  |

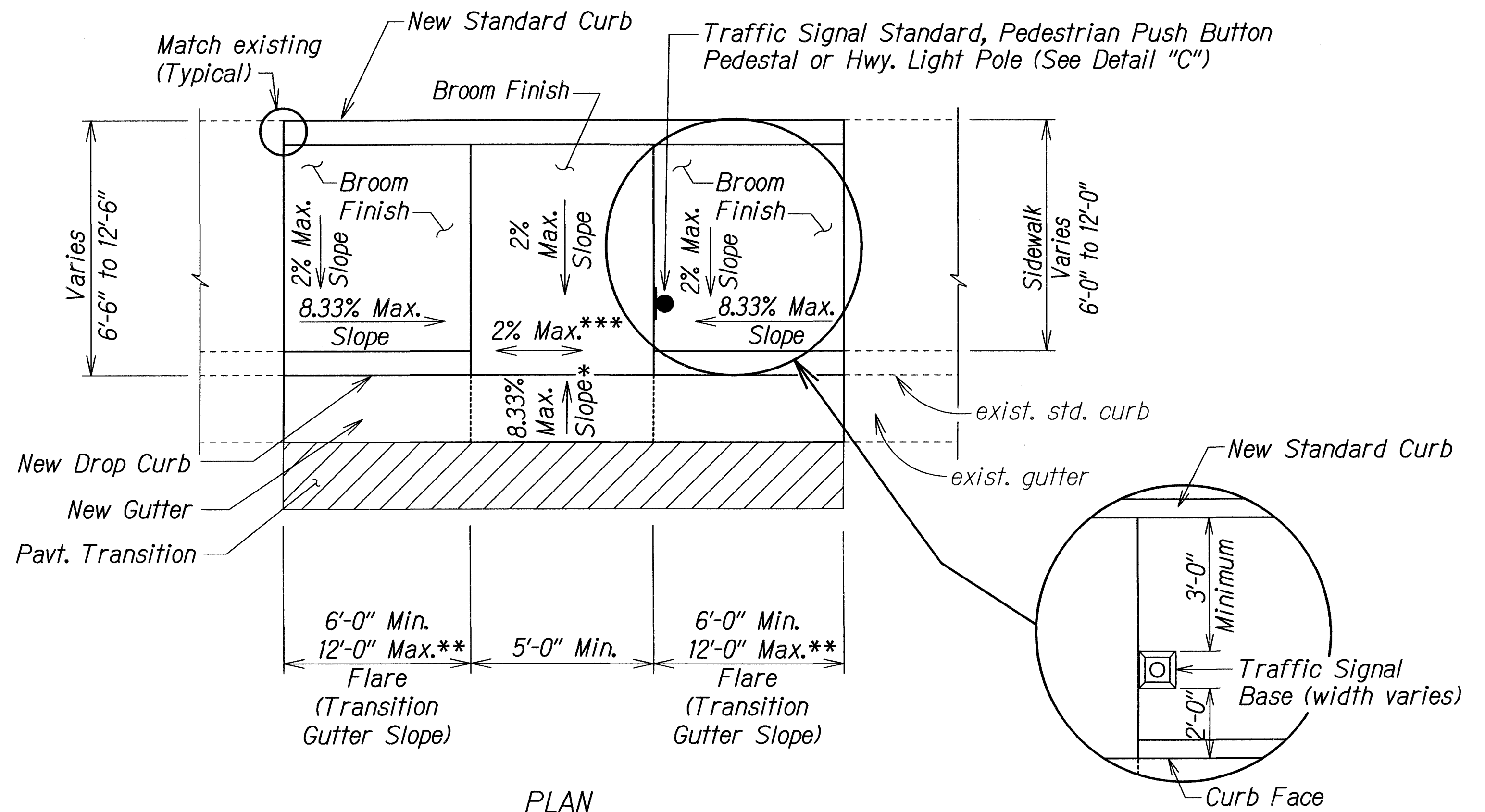


| FED. ROAD DIST. NO. | STATE | PROJ. NO.    | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(27) | 2009        | ADD22S-2  | 302          |



**CURB RAMP - TYPE "C" (SPECIAL)**  
USE AT MEDIAN CROSSINGS, ISLANDS

- \* See Curb Ramp and Sidewalk Note No. 9
- \*\* The slope of the ramp shall take precedence over the length of the ramp. If the maximum slope of a ramp cannot be met within a length of 12 feet, then the slope of the ramp shall be set when the length of the ramp is set at the maximum of 12 feet.
- \*\*\* If Roadway Slope >2% Conform to Roadway Slope and File Technical Infeasibility (TI) Statement



**CURB RAMP - TYPE "B" MODIFIED**  
SIDEWALK WIDTH 6'-0" OR GREATER  
BUT LESS THAN 12'-0" WIDTH

2/4/10 Added New Sheet.

DATE REVISION

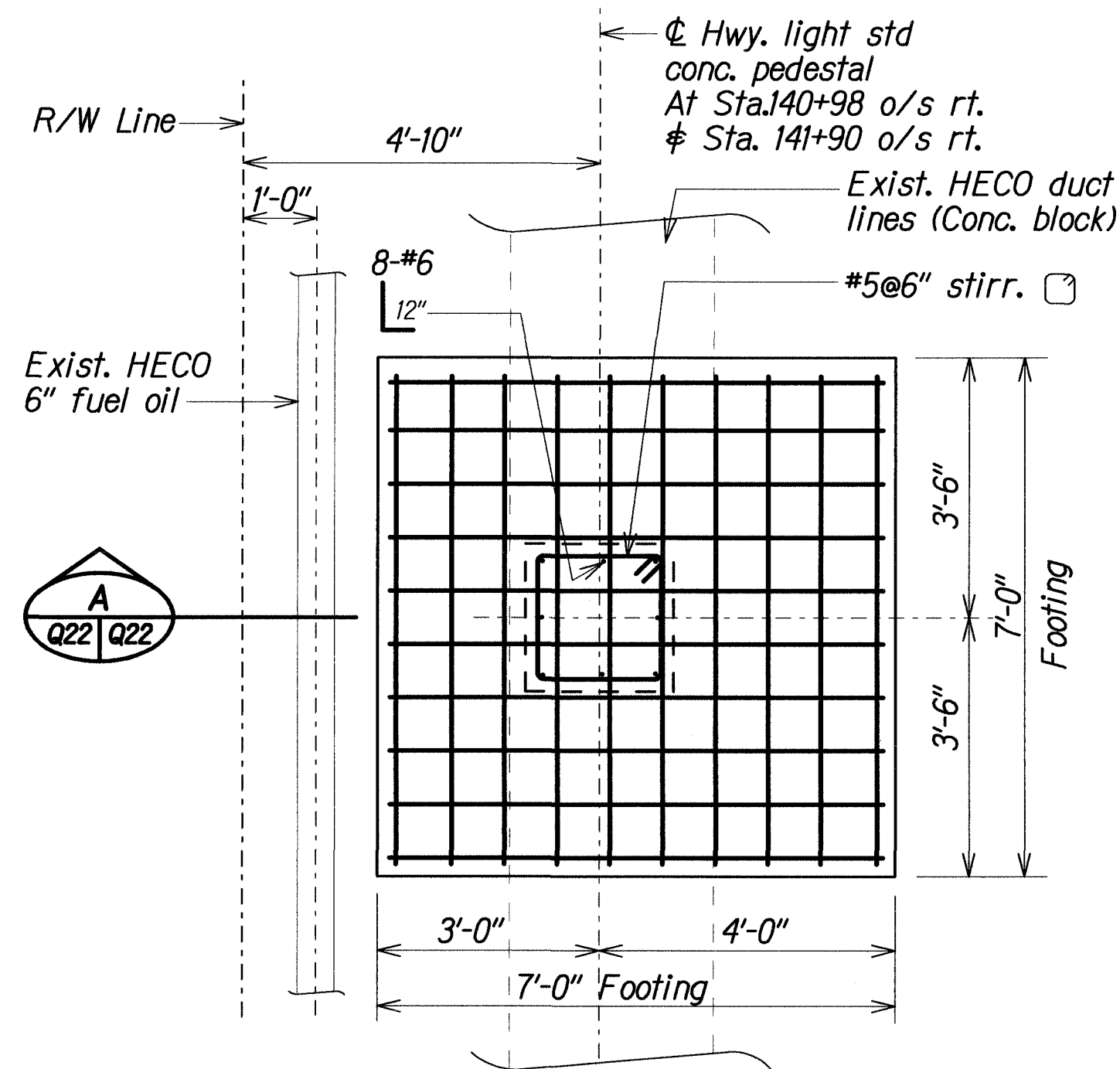
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**CURB RAMP DETAILS**  
NIMITZ HIGHWAY AND  
ALA MOANA BOULEVARD RESURFACING  
AND HIGHWAY LIGHTING REPLACEMENT  
Federal Aid Project No. NH-092-1(27)

Scale: As Shown
Date: Jan. 2010

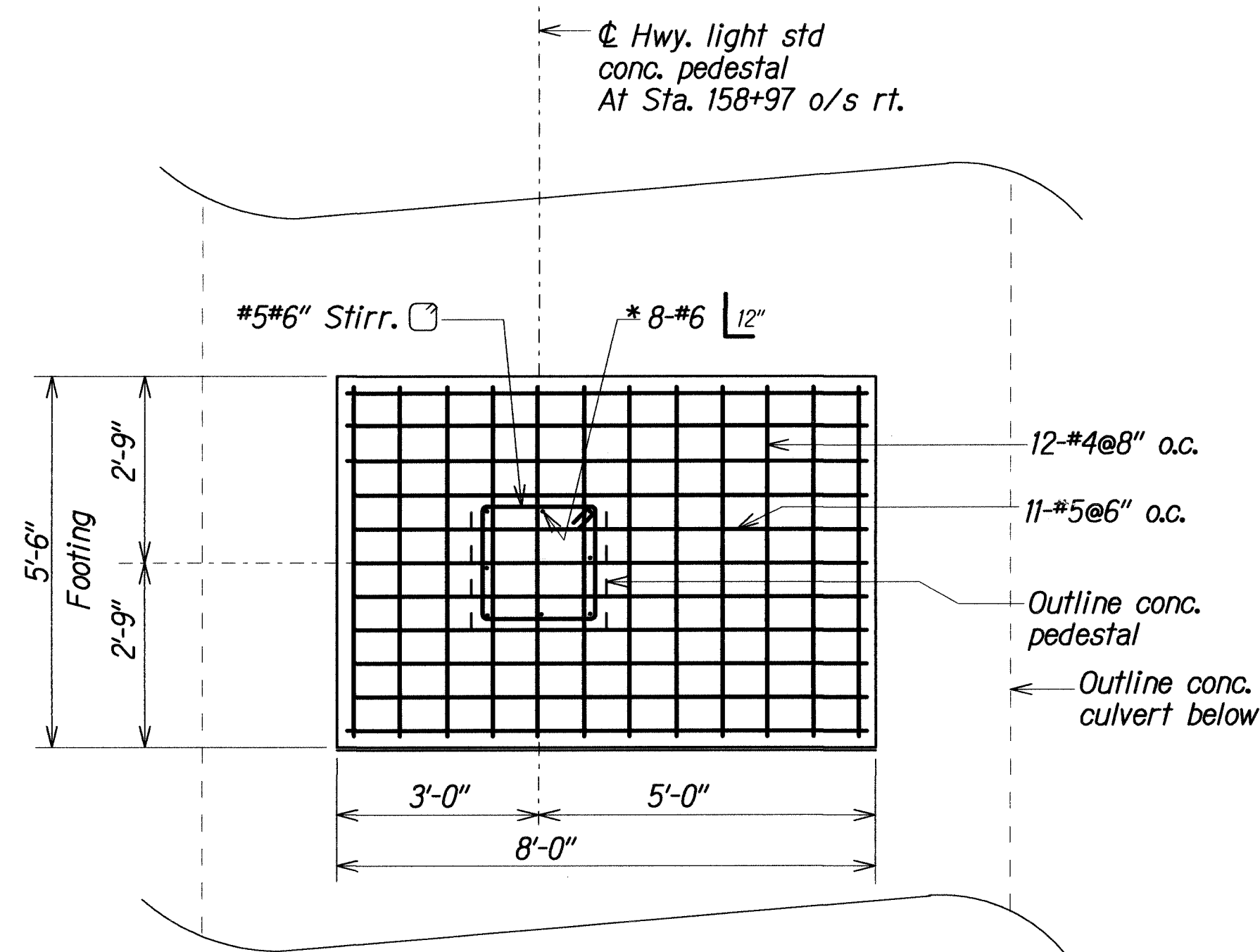
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(27)       | 2010        | 64        | 302          |

**SEWER NOTE:**  
The contractor shall take special precaution not to disturb the existing 36-inch diameter concrete sewer line, which was installed in 1900 and is in poor structural condition, during installation of the foundations for the new street light poles. Disturbance such as creating ground vibration or adding excessive surcharge loads from construction vehicles or equipment should be avoided during construction. Any damage to the sewer line shall be repaired by the contractor at his expense, using a repair method approved by the City.



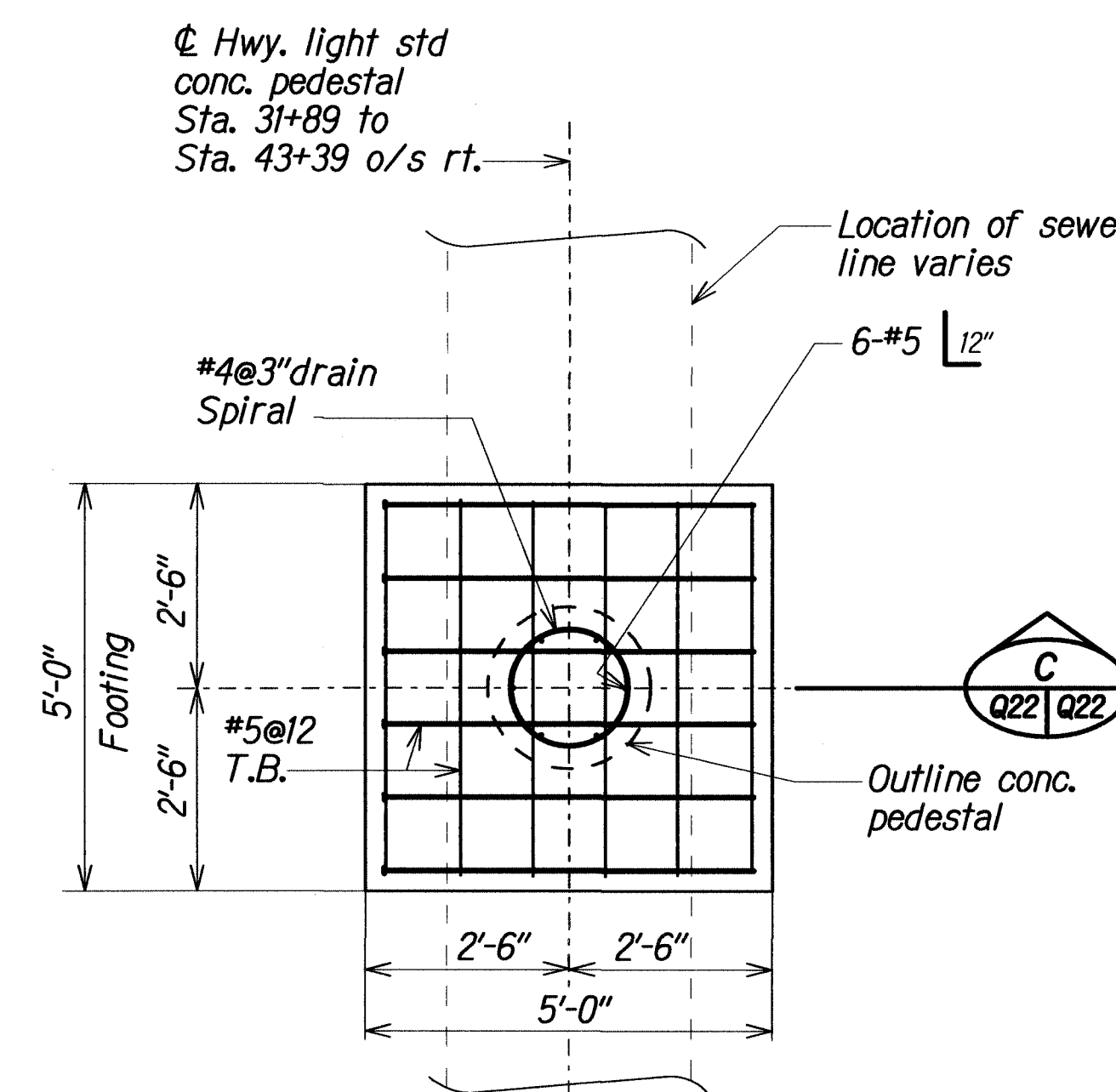
**PLAN**

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



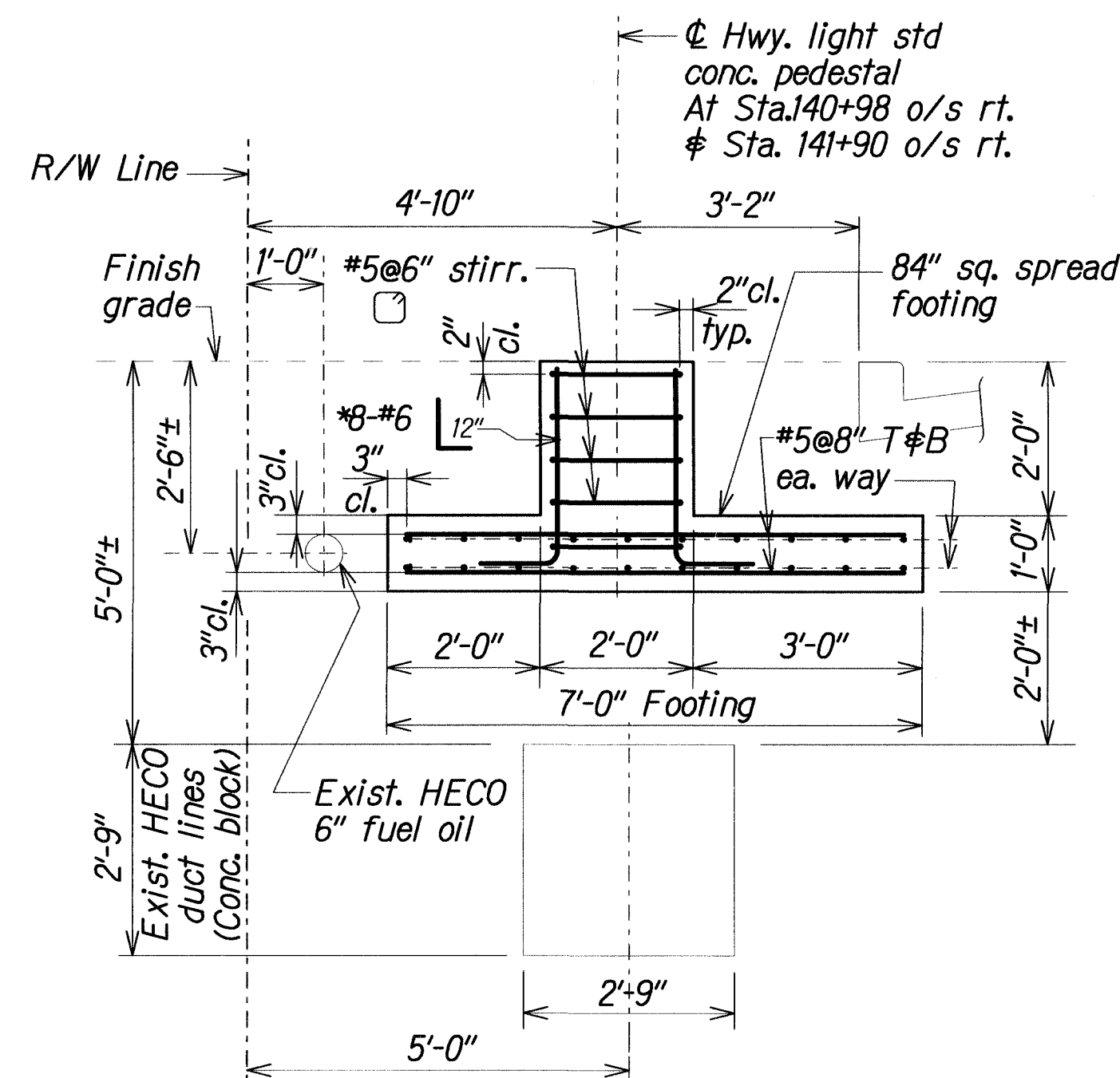
**PLAN**

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



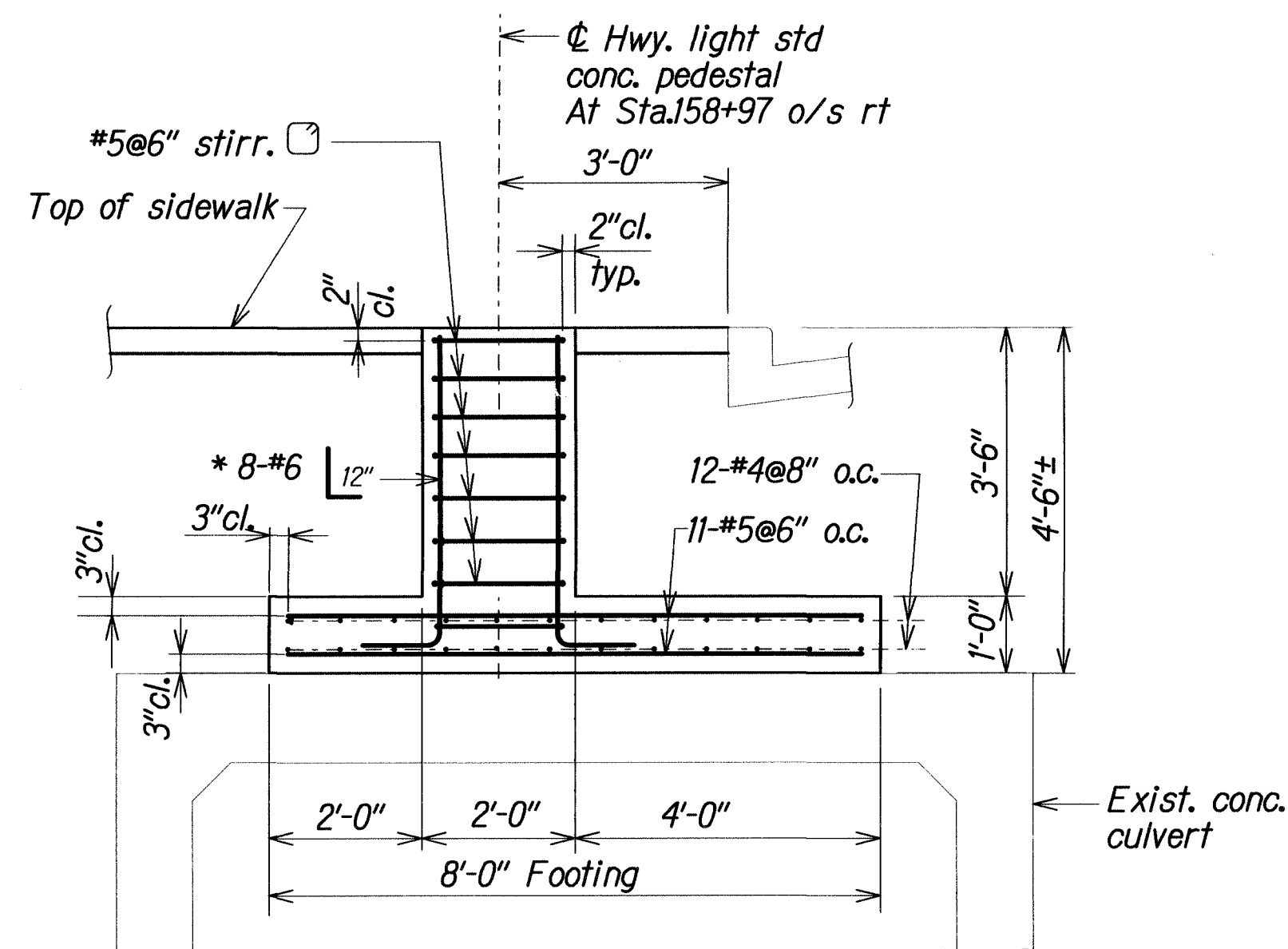
**PLAN**

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



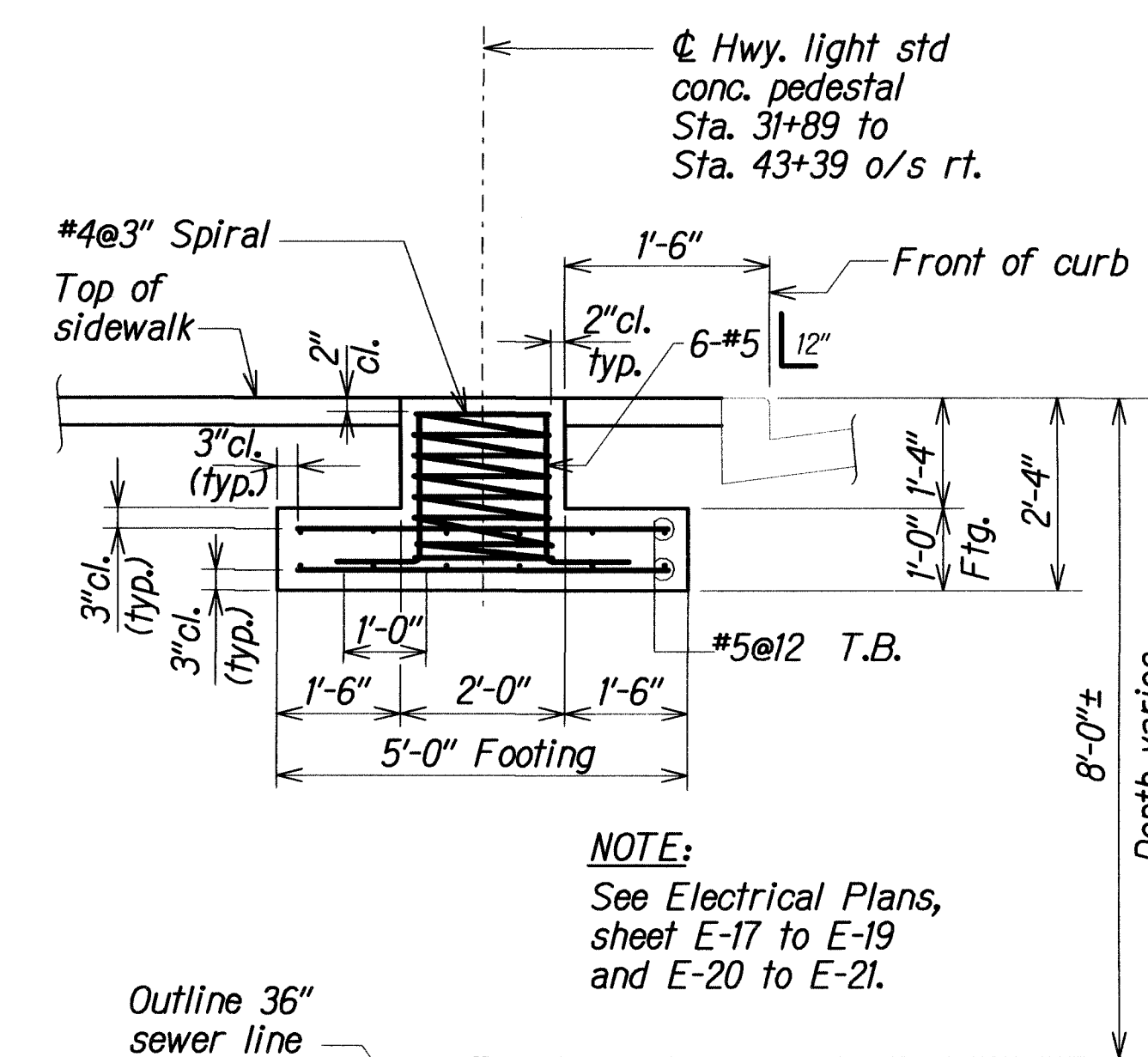
**SECTION A**

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



**SECTION B**

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



**SECTION C**

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

**NOTE:**  
See Electrical Plans, sheet E-17 to E-19 and E-20 to E-21.

**NOTE:**

1. Reinf. bar arrangement at conc. pedestal.
2. Location and depth of fuel lines and HECO duct lines to be verified by the Contractor.
3. See Highway Plans for Light Standard requirements and details.
4. The Contractor shall verify dimensions in the field.
5. See Electrical Plans, sheet E-77, Section B for Concrete Base Plan.

**APPROVED:**

*J. Wazalemma*  
CHIEF, WASTEWATER BRANCH, DPP

1/5/10

1/4/10 Add 5'x5' footing with cylindrical pedestal and Waste Water Branch Chief's approval block.

DATE REVISION

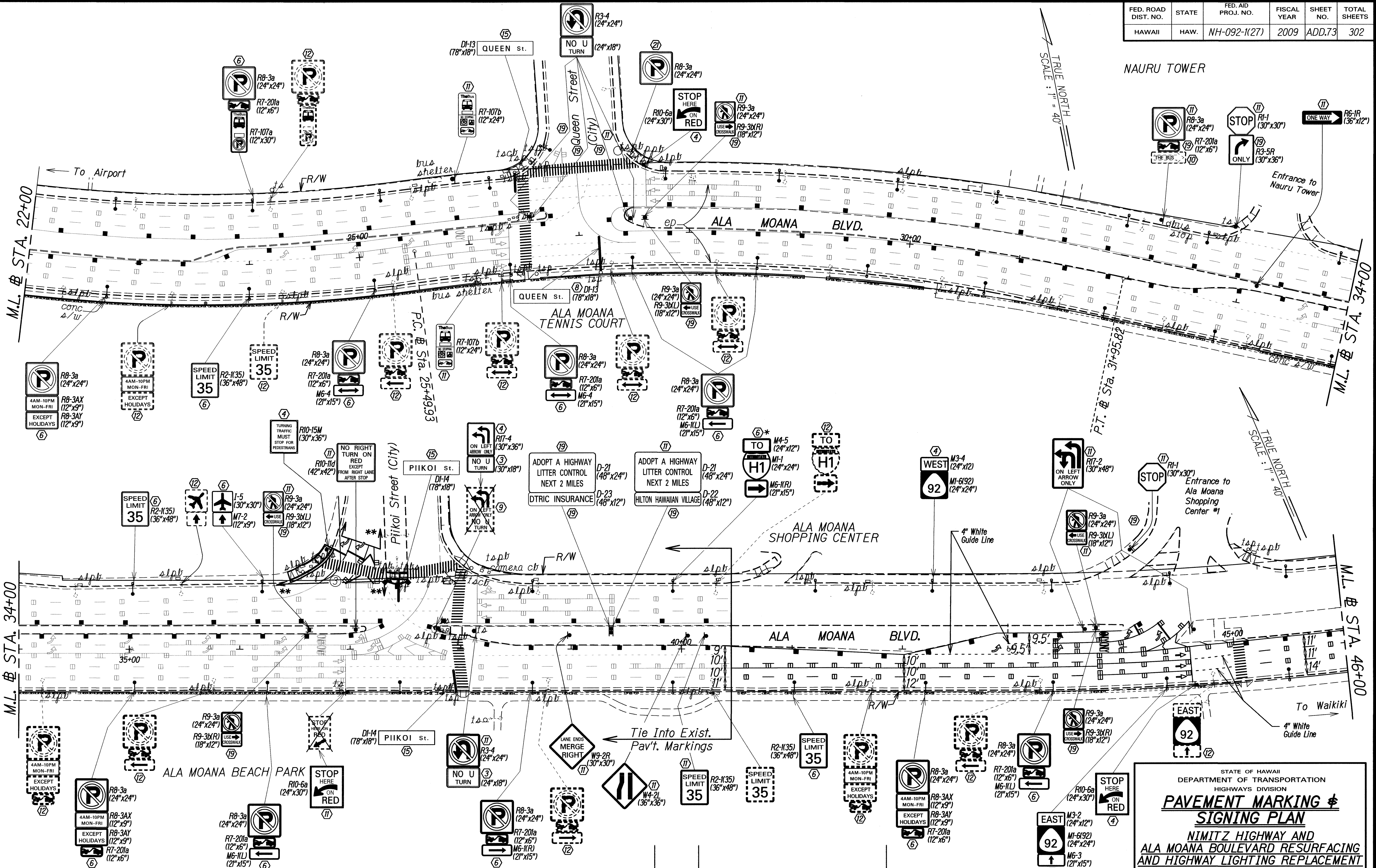
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**LIGHT STANDARD SPECIAL FOOTING**  
AT STA. 140+98 O/S RT., STA. 141+90 O/S RT.  
# STA. 158+97 O/S RT.  
NIMITZ HIGHWAY AND  
ALA MOANA BOULEVARD RESURFACING  
AND HIGHWAY LIGHTING REPLACEMENT  
Federal Aid Project No. NH-092-1(27)  
Scale: As Noted Date: Jun, 2009

SHEET No. Q22 OF 23 SHEETS

**ADD. 64**



| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(27)       | 2009        | ADD.73    | 302          |



\*Install Signs At 10 Feet Above Ground  
 \*\*Tie Into Exist. Pav't. Markings

| 2/4/10 | Revise Pavement Striping At Piikoi Street and Added City Jurisdiction |
|--------|---|
| DATE   | REVISION  |

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**PAVEMENT MARKING & SIGNING PLAN**

NIMITZ HIGHWAY AND  
 ALA MOANA BOULEVARD RESURFACING  
 AND HIGHWAY LIGHTING REPLACEMENT  
 Federal Aid Project No. NH-092-1(27)

Scale: 1" = 40' Date: Jan. 2009

SHEET NO. T8 OF 20 SHEETS



| FED. ROAD<br>DIST. NO. | STATE | FED. AID<br>PROJ. NO. | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
|------------------------|-------|-----------------------|----------------|--------------|-----------------|
| HAWAII                 | HAW.  | NH-092-1(27)          | 2009           | ADD. 87      | 302             |

SYMBOL NOTES:

1. "X" Through Symbol Indicates Item to be Removed.

UTILITY LEGEND:

—w16— Exst Water Line, 16" Dia Indicated

—g6— Exst Gas Line, 6" Dia Indicated

—s8— Exst Sewer Line, 8" Dia Indicated

—d24— Exst Drain Line, 24" Dia Indicated

—f6— Exst Fuel Oil Line 6" Dia Indicated

— f06 — Exst Fuel Oil Line, b Dia Indicated

*wmh*      *Exst Water Manhole*

wv Exst Water Valve

wm Exst Water Meter

smh      Exst Sewer Manhole

sdmh      Exst Storm Drain Manhole

cb      Exst Catch Basin

TRAFFIC SIGNAL CABLES:

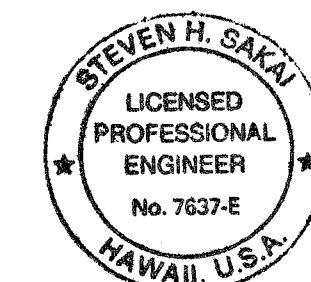
Type 2: Vehicular Detector Lead-In/Pedestrian  
Push Button Cable, 2/C #14

Type 3: Interconnect Cable, 12 Pr #19 Unless Indicated Otherwise

Type 5: Signal Drop Cable, 4/C #14

Type 7: Opticom Cable, 3/C #20

F.O.: CCTV Cable, 36-Strand (18MM/18SM)



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. ("OBSERVATION OF CONSTRUCTION" SHALL BE AS DEFINED IN CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII, SUBCHAPTER 1, SECTION 16-115-2, DEFINITIONS, EFFECTIVE 08/29/94).

ET Alexander H. H. H.  
LICENSE EXPIRES: 4-30-10

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
ELECTRICAL SYMBOLS

NIMITZ HIGHWAY AND ALA MOANA BOULEVARD  
RESURFACING AND HIGHWAY LIGHTING REPLACEMENT  
FEDERAL AID PROJECT NO. NH-092-1(27)

Scale: NONE Date: AUGUST 2009

**SHEET No. E-2 OF 92 SHEETS**

|          |  |
|----------|--|
| 01/04/10 | Revised Demo Hwy Lt Sym, Hwy Lt Legend, City St Lt P |
| DATE     | REVISION   |

## ELECTRICAL SYMBOLS

[illegible]

HIGHWAY LIGHT LEGEND:

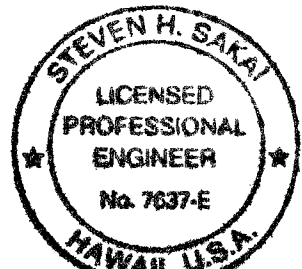
|   |                       |  |
|---|-----------------------|--|
| 1 | 6, 9AB                | ← Light No., Circuit No. (Ckt 9, Phases A & B Indicated) |
| 2 | 122+36, O/S 16' Lt    | ← Sta. No., Offset from Baseline                         |
| 3 | 15', III              | ← Bracket Arm Length, Light Distribution                 |
| 4 | For Base, See Sht Q23 | ← Additional Base Information, See Sheet Indicated       |



| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(27)       | 2009        | ADD. 93   | 302          |

Notes:

- 1 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Sidewalk Prior to Excavation. Repair Conc Sidewalk.
- 2 Remove Exst Hwy Lt Wiring, Cap Exst Hwy Lt Conduit, and Abandon-In-Place.
- 3 Expose Exst Conduit Stub-Out, Provide Coupling(s) and Extend Conduit(s).
- 4 Remove Exst TS Wiring, ~~Cut Exst TS Conduit, Provide Coupling and Extend Exst TS Conduit to~~ Install New Type I TS Std. Provide 1-Type 2 and 2-Type 5 TS Cables. Provide Temp TS Std with Vehicle and Ped Signal Head Until New Type I TS Std with Signal Heads is Operational.
- 5 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Full Width Sidewalk Prior to Excavation. Repair Full Width Conc Sidewalk. Provide Finish and Gridded Scorelines to Match Adjacent.
- 6 Prior to Installing Hwy Lt Std, Provide Split Duct(s) for Exst Hwy Lt Wiring to Temporarily Relocate Exst Hwy Conduit & Wiring.
- 7 Penetrate Exst Pullbox to Terminate Conduit(s). Repair to Match Exst.
- 8 Prior to Installing Hwy Lt Std, Provide Split Duct(s) with 3" Conc Encasement for Exst TS Wiring to Relocate Exst TS Conduit & Wiring.
- 9 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Full Width Sidewalk (Except Curb Ramp) Prior to Excavation. Repair Full Width Conc Sidewalk. Provide Colored Finish Pattern to Match Adjacent.

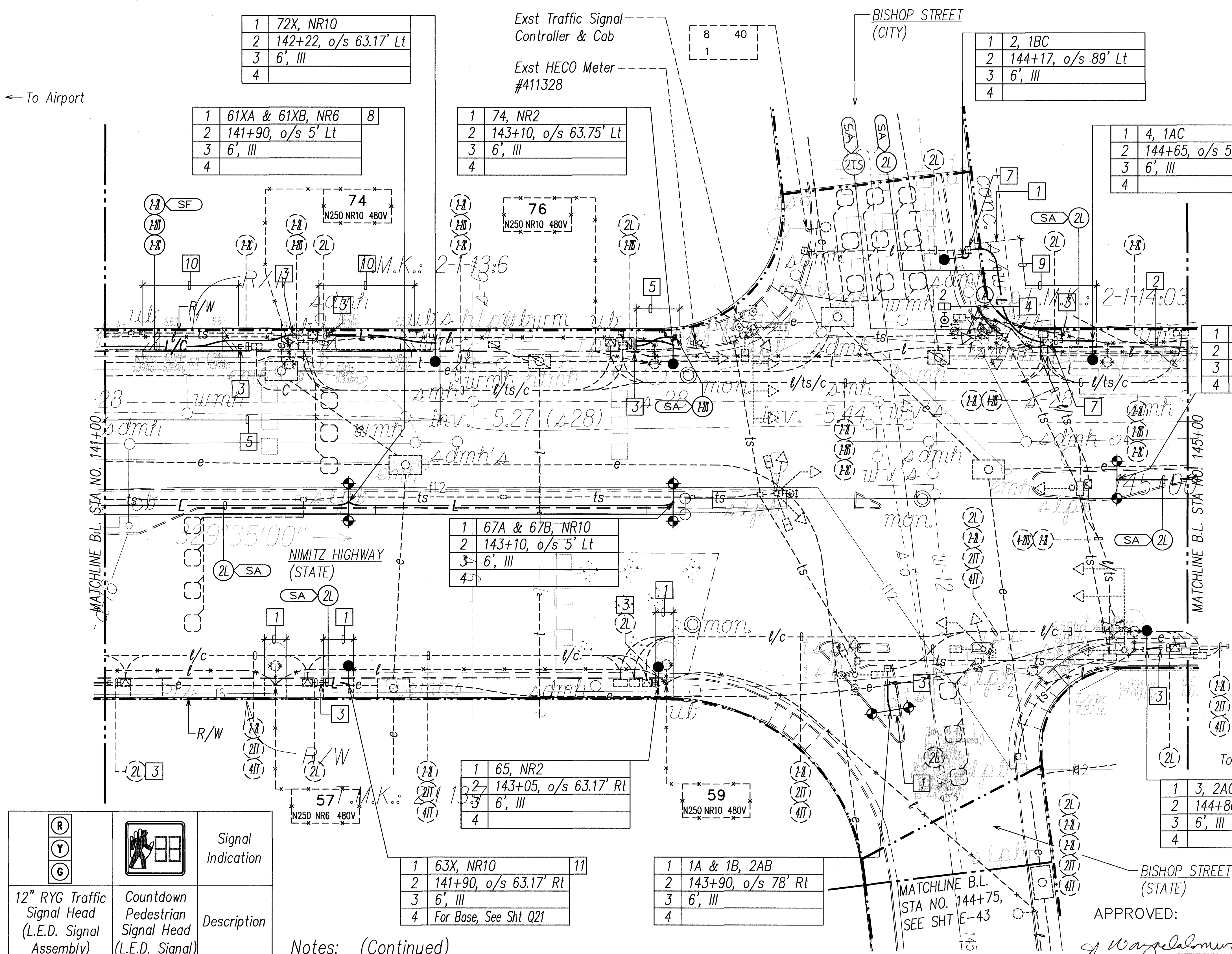


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. ("OBSERVATION OF CONSTRUCTION" SHALL BE AS DEFINED IN CHAPTER 110, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII, SUBCHAPTER 1, SECTION 16-115-2, DEFINITIONS, EFFECTIVE 10/29/94.)

LICENSE EXPIRES: 4-30-10

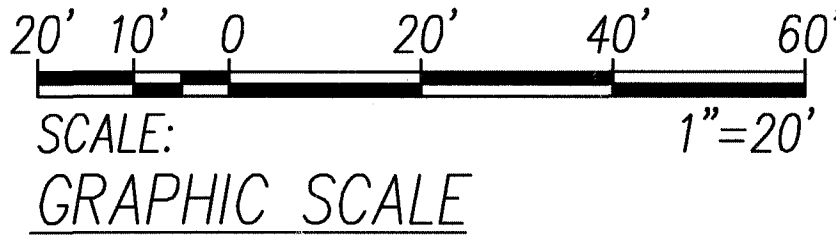
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**HIGHWAY LIGHTING & TRAFFIC SIGNAL**  
**PARTIAL PLAN 2**  
NIMITZ HIGHWAY AND ALA MOANA BOULEVARD  
RESURFACING AND HIGHWAY LIGHTING REPLACEMENT  
FEDERAL AID PROJECT NO. NH-092-1(27)

Scale: AS NOTED Date: AUGUST 2009  
SHEET No. E-8 OF 92 SHEETS



Notes: (Continued)

- 10 Saw Cut Exst Conc Driveway at Scorelines and Demolish Exst Driveway Prior to Excavation. Repair Conc Driveway and Flare. See Demolition Note 8, Sht E-3 for Additional Requirements.
- 11 Hwy Lt Conc Base Constructed Above Exst HECO Ductline.



|  |  |                         |
|--|--|-------------------------|
| <div><div>R</div><div>Y</div><div>G</div></div>      |  | Signal Indication       |
| 12" RYG Traffic Signal Head (L.E.D. Signal Assembly) | Countdown Pedestrian Signal Head (L.E.D. Signal) | Description             |
|  |  | Symbol                  |
| A-1  | A-2  | Signal Head Designation |

**HIGHWAY LIGHTING & TRAFFIC SIGNAL PARTIAL PLAN 2**  
SCALE: 1"=20'  
T.M.K.: 2-1-13, 2-1-14

|          |                     |
|----------|---------------------|
| 01/04/10 | Approval Signatures |
| DATE     | REVISION            |

|          |             |            |
|----------|-------------|------------|
| DATE     | DESIGNED BY | CHECKED BY |
| 12/18/08 | 12/22/03    | 12/22/03   |
| 12/22/03 | 12/22/03    | 12/22/03   |
| 12/22/03 | 12/22/03    | 12/22/03   |
| 12/22/03 | 12/22/03    | 12/22/03   |

LAST SAVE: 12/18/08 @ 15:22:53 BY: AN PLOT SC: 1-20  
Z:\ACAD\PROJECTS\240560\1008\_240560.dwg



| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(27)       | 2009        | ADD. 102  | 302          |

Notes:

- 1 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Full Width Sidewalk Prior to Excavation. Repair Full Width Conc Sidewalk.
- 2 Remove Exst Hwy Lt Wiring, Cap Exst Hwy Lt Conduit, and Abandon-In-Place.
- 3 Expose Exst Conduit Stub-Out, Provide Coupling(s) and Extend Exst Conduit(s).
- 4 Remove Exst Hwy Lt Std with Traffic Signal Equip and Conc Base. Provide Hwy Lt Std with Traffic Signal Equip Indicated. Provide Temp Lighting and Traffic Signals Until New Hwy Lt and Traffic Signal are Operational.
- 5 Carefully Remove Exst Paver Tiles and Saw Cut Exst Conc Sidewalk Prior to Trench Excavation. Repair Exst Conc Sidewalk and Reinstall Exst Paver Tiles.
- 6 Penetrate Exst Pullbox to Terminate Conduit(s). Repair to Match Exst.
- 7 Remove Exst Hedge as Necessary to Install Conduits. See Landscape Dwgs for Landscape Restoration.
- 8 Remove Exst Traffic Signal Heads and Provide Traffic Signal Heads Indicated. Install 3-Type 5 TS Cable in Exst 2"C.
- 9 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Sidewalk Prior to Excavation. Construct Conc Sidewalk, See Roadway Plan.
- 10 Saw Cut Exst Conc Curb Ramp at Scorelines and Demolish Exst Curb Ramp Prior to Excavation. Construct Curb Ramp, See Roadway Plan.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION) SHALL BE AS DEFINED IN CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII, SUBCHAPTER 1, SECTION 16-115-2, DEFINITIONS, EFFECTIVE 10/29/94.

2/17/10  
 CHIEF, TRAFFIC SIGNALS AND TECHNOLOGY DIV  
 DEPT. OF TRANSPORTATION SERVICES  
 2/22/10  
 CHIEF, TRAFFIC REVIEW BRANCH, DPP

APPROVED:

*Wagner*  
 CHIEF, WASTEWATER BRANCH, DPP

1/5/10  
 DATE

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

HIGHWAY LIGHTING & TRAFFIC SIGNAL

PARTIAL PLAN 11

NIMITZ HIGHWAY AND ALA MOANA BOULEVARD

RESURFACING AND HIGHWAY LIGHTING REPLACEMENT

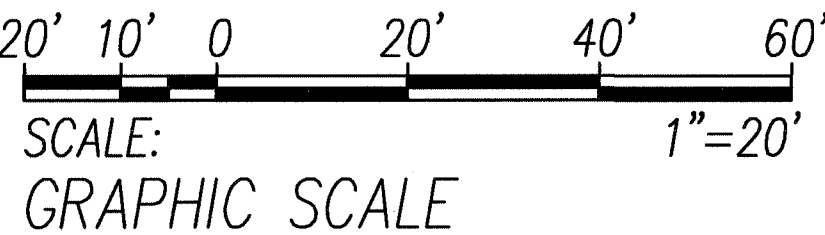
FEDERAL AID PROJECT NO. NH-092-1(27)

Scale: AS NOTED

Date: AUGUST 2009

SHEET No. E-17 OF 92 SHEETS

|          |   |
|----------|---|
| 01/04/10 | Approval Signatures, Revised Sewer Note |
| DATE     | REVISION                                |



# HIGHWAY LIGHTING & TRAFFIC SIGNAL PARTIAL PLAN 11 SCALE: 1"=20' T.M.K.: 2-1-55

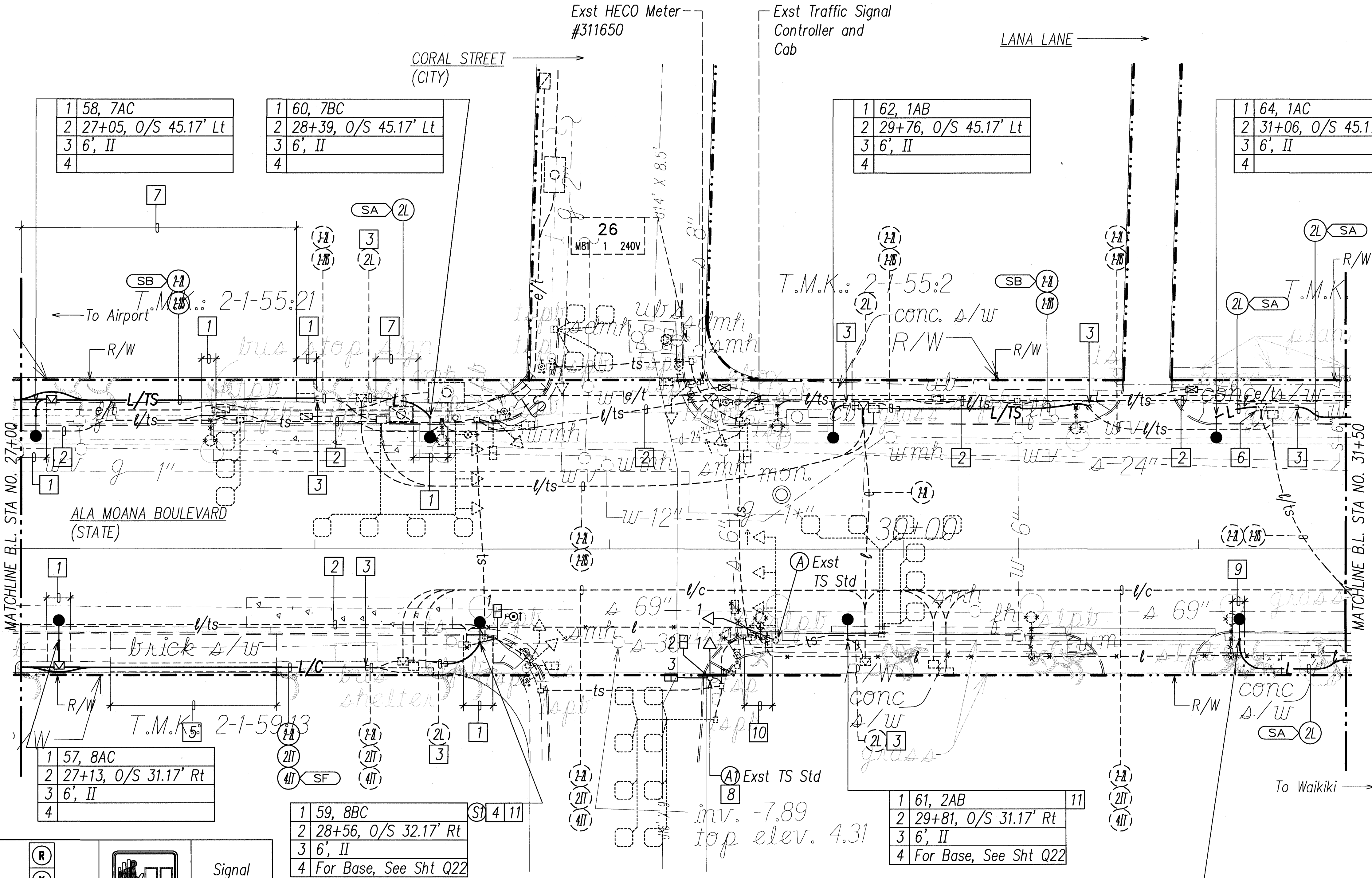
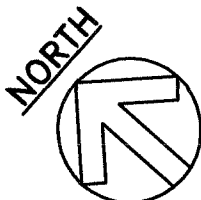
Notes: (Continued)

- 11 Carefully Excavate for Foundation, in the Presence of the Wastewater Inspector, so that Exst 36" Sewerline is not Disturbed. Based on Exst Records, Exst 36" Sewerline is Buried 8'-0" to 9'-6" Below Exst Finish Grade. The Contractor Shall Take Special Precaution Not to Disturb the Existing 36-Inch Diameter Concrete Sewer Line, Which was Installed in 1900 and is in Poor Structural Condition, During Installation of the Foundations for the New Street Light Poles. Disturbance Such as Creating Ground Vibration or Adding Excessive Surcharge Loads from Construction Vehicles or Equipment Should be Avoided During Construction. Any Damage to the Sewer Line Shall be Repaired by the Contractor at His Expense, Using a Repair Method Approved by the City.

| Signal Indication | Description  | Symbol | Signal Head Designation |
|-------------------|--|--------|-------------------------|
|                   | 12" RYG Traffic Signal Head (L.E.D. Signal Assembly) |        | A-1                     |
|                   | Countdown Pedestrian Signal Head (L.E.D. Signal)     |        | A1-2                    |
|                   |  |        | A1-3                    |
|                   |  |        | S1-1                    |

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| CHECKED BY        |      |
| NOTED BY          |      |
| QUANTITIES BY     |      |
| CHECKED BY        |      |
| NO.               |      |

LAST SAVE: 12/18/09 @ 15:33:34 BY: JN PLOT SC: 1400  
 Z:\CAD\PROJECTS\2405651\2007\_2405651\_Plan11.dwg W: SITE2-3 SANITARY XAMIBD JRM-BISHOP JRM-BACKGROUND

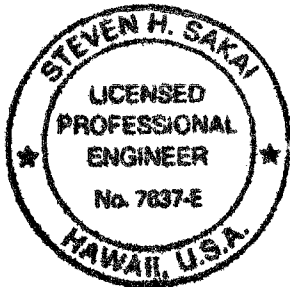




| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(27)       | 2009        | ADD. 103  | 302          |

Notes:

- 1 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Sidewalk Prior to Excavation. Repair Conc Sidewalk.
- 2 Remove Exst Hwy Lt Luminaire, Bracket Arm and Wood Pole. Compact Backfill to Match Exst.
- 3 Remove Exst Hwy Lt Wiring, Cap Exst Hwy Lt Conduit, and Abandon-In-Place.
- 4 Expose Exst Conduit Stub-Out, Provide Coupling(s) and Extend Exst Conduit(s).
- 5 Penetrate Exst Pullbox to Terminate Conduit(s). Repair to Match Exst.
- 6 Remove Exst Wood Pole, Guy and/or Anchor as Indicated. Compact Backfill to Match Exst.
- 7 Remove Exst Hedge as Necessary to Install Conduits. See Landscape Dwg's for Landscape Restoration.
- 8 2"C, 1-Type 2 and 1-Type 3 (6 Pr) Cable; 2"C, Pullwire.
- 9 Exst 2-2"C. Provide 1-Type 2 and 1-Type 3 (6 Pr) Cable in Exst 2"C.
- 10 2"C, 1-Type 2 Cable.
- 11 Exst Loop Detectors to be Abandoned-in-Place. See Elec Distr Partial Plan 12 for New Loop Detectors
- 12 2"C, 1-Type 3 (6 Pr) Cable.
- 13 Remove Exst 1-Type 3 (6 Pr) Cable and Provide 1-Type 3 (6 Pr) Cables.
- 14 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Full Width Sidewalk Prior to Excavation. Repair Full Width Conc Sidewalk.
- 15 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Sidewalk Prior to Excavation. Construct Conc Sidewalk, See Roadway Plan.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. ("OBSERVATION OF CONSTRUCTION") SHALL BE AS DEFINED IN CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII, SUBCHAPTER 1, SECTION 16-115-2, DEFINITIONS, EFFECTIVE 08/28/94.

By *Steven H. Sakai*  
LICENSE EXPIRES 4-30-10

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
HIGHWAY LIGHTING & TRAFFIC SIGNAL  
PARTIAL PLAN 12

NIMITZ HIGHWAY AND ALA MOANA BOULEVARD  
RESURFACING AND HIGHWAY LIGHTING REPLACEMENT  
FEDERAL AID PROJECT NO. NH-092-1(27)

Scale: AS NOTED Date: AUGUST 2009  
SHEET No. E-18 OF 92 SHEETS

|          |   |
|----------|---|
| 01/04/10 | Approval Signatures, Revised Sewer Note |
| DATE     | REVISION                                |

Carefully Excavate for Foundation, in the Presence of the Wastewater Inspector, so that Exst 36" Sewerline is not Disturbed. Based on Exst Records, Exst 36" Sewerline is Buried 8'-0" to 9'-6" Below Exst Fin Grade. The Contractor Shall Take Special Precaution Not to Disturb the Existing 36-Inch Diameter Concrete Sewer Line, Which was Installed in 1900 and is in Poor Structural Condition, During Installation of the Foundations for the New Street Light Poles. Disturbance Such as Creating Ground Vibration or Adding Excessive Surcharge Loads from Construction Vehicles or Equipment Should be Avoided During Construction. Any Damage to the Sewer Line Shall be Repaired by the Contractor at His Expense, Using a Repair Method Approved by the City.

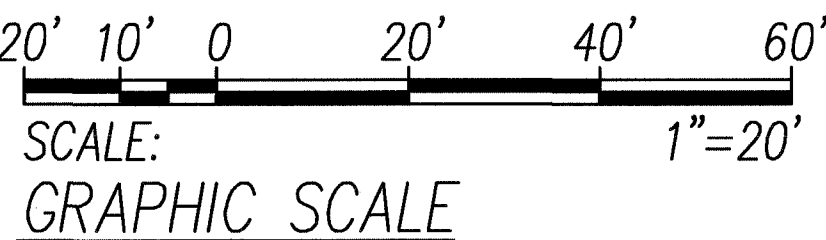
APPROVED:

*Wayne Salas* 1/5/10  
CHIEF, WASTEWATER BRANCH, DPP m DATE

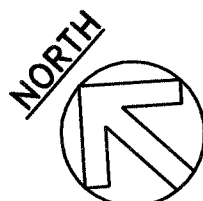
*[Signature]* 2/22/10  
CHIEF, TRAFFIC SIGNAL DIV DATE  
REVIEW BRANCH, DPP

Exst Traffic Signal  
Controller and Cab

Exst HECO Meter  
#446439



HIGHWAY LIGHTING & TRAFFIC SIGNAL PARTIAL PLAN 12  
SCALE: 1"=20' T.M.K.: 2-1-55, 2-1-56



|   |                       |    |
|---|-----------------------|----|
| 1 | 63X, 2AC              | 16 |
| 2 | 31+89, O/S 31.17' Rt  |    |
| 3 | 6', II                |    |
| 4 | For Base, See Sht Q22 |    |

|   |                       |    |
|---|-----------------------|----|
| 1 | 65, 2BC               | 16 |
| 2 | 33+11, O/S 32.67' Rt  |    |
| 3 | 6', II                |    |
| 4 | For Base, See Sht Q22 |    |

|   |                       |    |
|---|-----------------------|----|
| 1 | 67, 8AB               | 16 |
| 2 | 34+04, O/S 30.17' Rt  |    |
| 3 | 6', II                |    |
| 4 | For Base, See Sht Q22 |    |

|   |                       |    |
|---|-----------------------|----|
| 1 | 69, 8AC               | 16 |
| 2 | 35+11, O/S 27.17' Rt  |    |
| 3 | 6', II                |    |
| 4 | For Base, See Sht Q22 |    |

|   |                   |  |
|---|-------------------|--|
| 1 | 70, 7AC           |  |
| 2 | 35+31, O/S 53' Lt |  |
| 3 | 6', II            |  |
| 4 |                   |  |

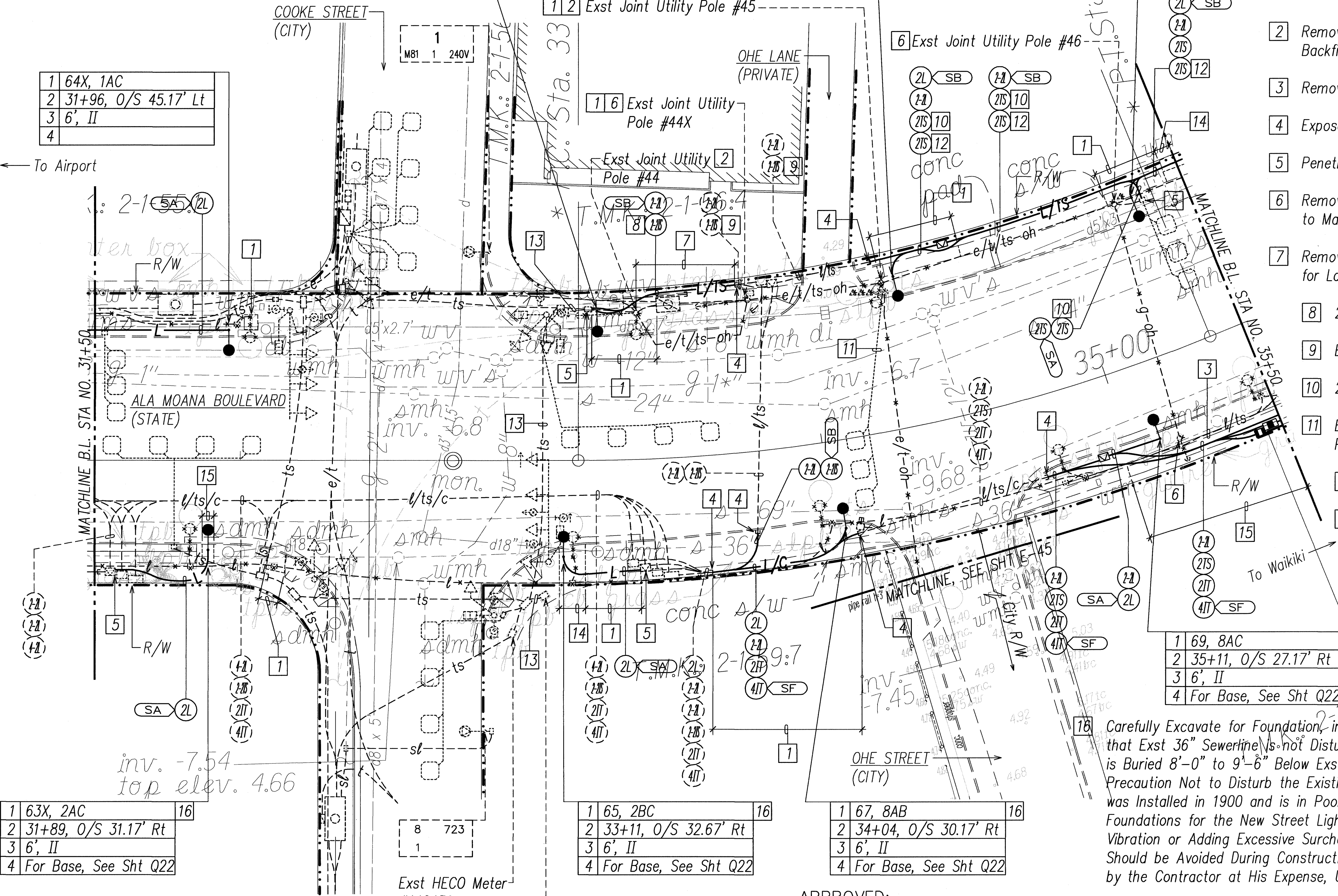
|   |                   |  |
|---|-------------------|--|
| 1 | 68, 7AB           |  |
| 2 | 34+36, O/S 51' Lt |  |
| 3 | 6', II            |  |
| 4 |                   |  |

|   |                     |  |
|---|---------------------|--|
| 1 | 66, 1BC             |  |
| 2 | 33+23, O/S 50.5' Lt |  |
| 3 | 6', II              |  |
| 4 |                     |  |

|   |                      |  |
|---|----------------------|--|
| 1 | 64X, 1AC             |  |
| 2 | 31+96, O/S 45.17' Lt |  |
| 3 | 6', II               |  |
| 4 |                      |  |

|               |               |
|---------------|---------------|
| DATE          | DATE          |
| DESIGNED BY   | DESIGNED BY   |
| CHECKED BY    | CHECKED BY    |
| NOTED BY      | NOTED BY      |
| QUANTITIES BY | QUANTITIES BY |
| TRACED BY     | TRACED BY     |
| DRAWN BY      | DRAWN BY      |
| ORIGINAL PLAN | ORIGINAL PLAN |
| NO.           | NO.           |

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2: ADOPTED 12/10/09 15:23:38 BY: AN PLT SC: 1-20





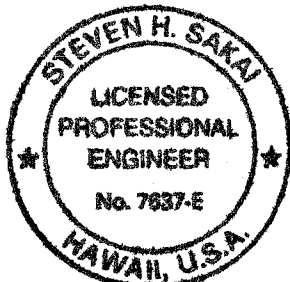




| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(27)       | 2009        | ADD. 106  | 302          |

Notes:

- 1 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Width Sidewalk Prior to Excavation. Repair Full Width Conc Sidewalk.
- 2 Remove Exst Hwy Lt Luminaire, Bracket Arm and Wood Pole. Compact Backfill to Match Exst.
- 3 Remove Exst Hwy Lt Wiring, Cap Exst Hwy Lt Conduit, and Abandon-In-Place.
- 4 Expose Exst Conduit Stub-Out, Provide Coupling(s) and Extend Exst Conduit(s).
- 5 Saw Cut Exst Conc Curb Ramp Flare at Scorelines Prior to Excavation. Repair Curb Ramp Flare to Match Exst.
- 6 Prior to Installing Hwy Lt Std or Pullbox, Provide Split Duct(s) for Exst Hwy Lt Wiring to Temporarily Relocate Exst Hwy Lt Conduit and Wiring.
- 7 Remove Exst TS Cable and Provide Pullwire.
- 8 2"C, 1-Type 3 (6 Pr) Cable; 2"C Pullwire.
- 9 Saw Cut Exst Conc Driveway at Scorelines and Demolish Exst Driveway Prior to Excavation. Repair Conc Driveway and Flare. See Demolition Note 8, Sht E-3 for Additional Requirements.
- 10 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Sidewalk Prior to Excavation. Construct Conc Sidewalk, See Roadway Plan.
- 11 Provide 36" Min Clear between Exst Sewerline and Ductline.
- 12 Carefully Excavate for Foundation, in the Presence of the Wastewater Inspector, so that Exst 36" Sewerline is not Disturbed. Based on Exst Records, Exst 36" Sewerline is Buried 8'-0" to 9'-6" Below Exst Finish Grade. The Contractor Shall Take Special Precaution Not to Disturb the Existing 36-Inch Diameter Concrete Sewer Line, Which was Installed in 1900 and is in Poor Structural Condition, During Installation of the Foundations for the New Street Light Poles. Disturbance Such as Creating Ground Vibration or Adding Excessive Surcharge Loads from Construction Vehicles or Equipment Should be Avoided During Construction. Any Damage to the Sewer Line Shall be Repaired by the Contractor at His Expense, Using a Repair Method Approved by the City.



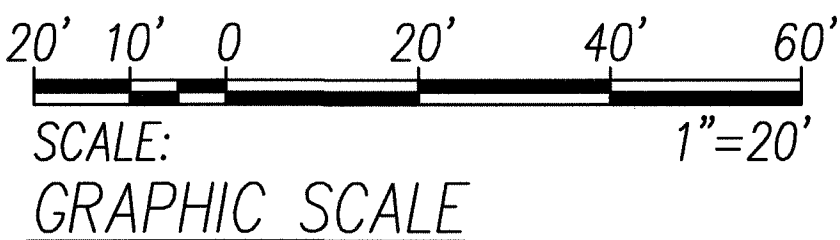
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION) SHALL BE AS DEFINED IN CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII, SUBCHAPTER 1, SECTION 16-115-2, DEFINITIONS, EFFECTIVE 08/29/04.

*Steven H. Sakai*  
LICENSE EXPIRES 4-30-10

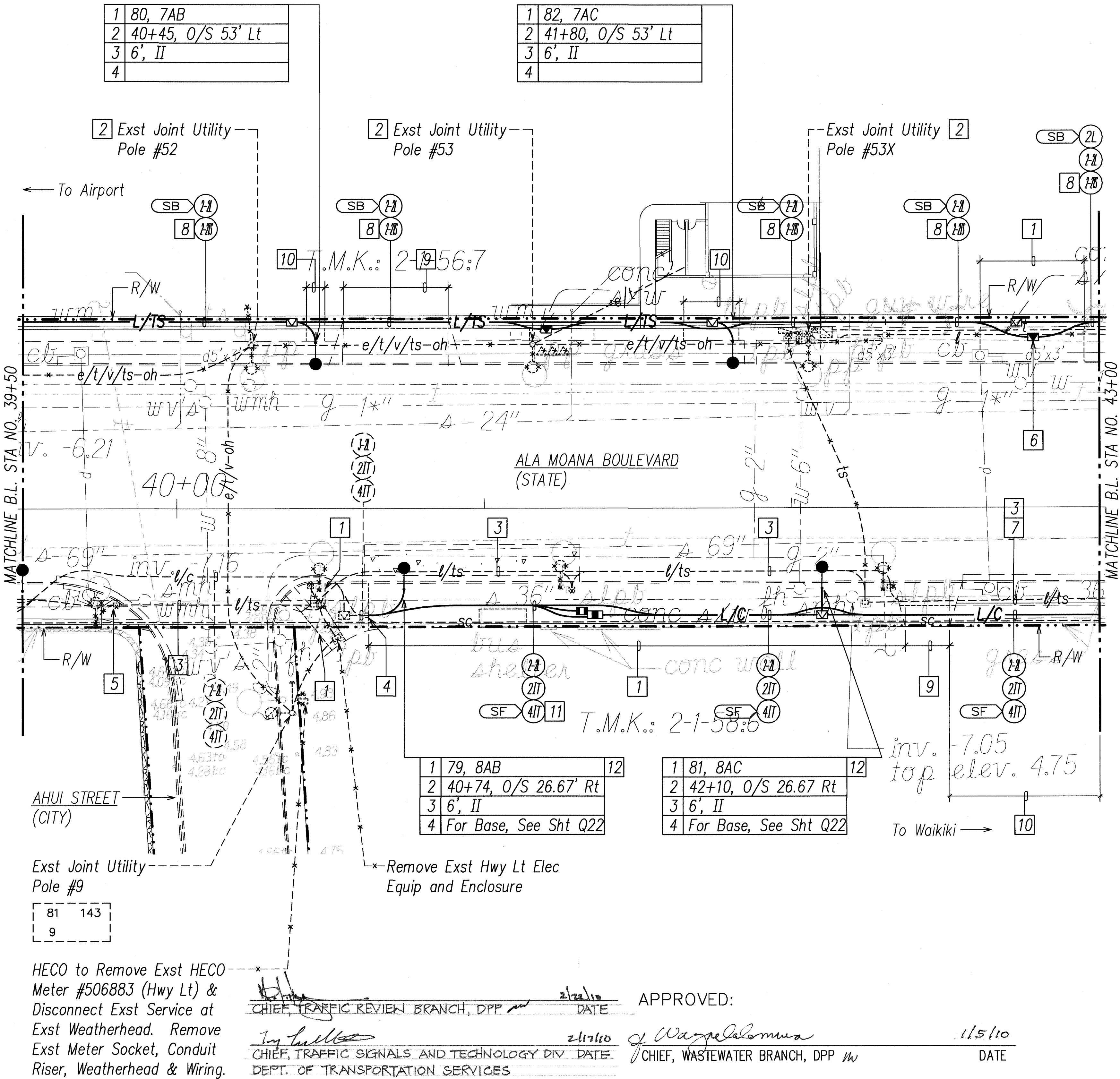
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**HIGHWAY LIGHTING & TRAFFIC SIGNAL**  
**PARTIAL PLAN 14**  
NIMITZ HIGHWAY AND ALA MOANA BOULEVARD  
RESURFACING AND HIGHWAY LIGHTING REPLACEMENT  
FEDERAL AID PROJECT NO. NH-092-1(27)

Scale: AS NOTED Date: AUGUST 2009  
SHEET No. E-21 OF 92 SHEETS

|          |   |
|----------|---|
| 01/04/10 | Approval Signatures, Revised Sewer Note |
| DATE     | REVISION                                |



**HIGHWAY LIGHTING & TRAFFIC SIGNAL PARTIAL PLAN 14**  
SCALE: 1"=20' T.M.K.: 2-1-56



|   |                   |
|---|-------------------|
| 1 | 80, 7AB           |
| 2 | 40+45, O/S 53' Lt |
| 3 | 6', II            |
| 4 |                   |

|   |                   |
|---|-------------------|
| 1 | 82, 7AC           |
| 2 | 41+80, O/S 53' Lt |
| 3 | 6', II            |
| 4 |                   |

|   |                       |    |
|---|-----------------------|----|
| 1 | 79, 8AB               | 12 |
| 2 | 40+74, O/S 26.67' Rt  |    |
| 3 | 6', II                |    |
| 4 | For Base, See Sht Q22 |    |

|   |                       |    |
|---|-----------------------|----|
| 1 | 81, 8AC               | 12 |
| 2 | 42+10, O/S 26.67' Rt  |    |
| 3 | 6', II                |    |
| 4 | For Base, See Sht Q22 |    |

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

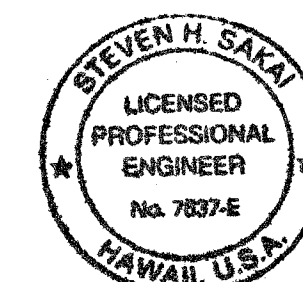
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| FED. ROAD<br>DIST. NO. | STATE | FED. AID<br>PROJ. NO. | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
|------------------------|-------|-----------------------|----------------|--------------|-----------------|
| HAWAII                 | HAW.  | NH-092-1(27)          | 2009           | ADD. 107     | 302             |

Notes:

- 1 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Sidewalk Prior to Excavation. Repair Conc Sidewalk.
  - 2 Prior to Installing Hwy Lt Std, Provide Split Duct(s) with 3" Conc Encasement for Exst TS Wiring to Relocate Exst TS Conduit and Wiring.
  - 3 Expose Exst Conduit Stub-Out, Provide Coupling(s) and Extend Exst Conduit(s).
  - 4 Remove Exst Hwy Lt Std and Conc Base. Provide Hwy Lt Std Indicated. Provide Temp Ltg Until New Hwy Lt Std is Operational.
  - 5 Penetrate Exst Pullbox to Terminate Conduit(s). Repair to Match Exst.
  - 6 Remove Exst Hwy Lt Wiring. Provide Hwy Lt Wiring to Exst Type III TS Std per Connection Diagram.
  - 7 Remove Exst Hwy Lt Luminaire, Bracket Arm and Wood Pole. Compact Backfill to Match Exst.
  - 8 Remove Exst Hwy Lt Luminaire and I.D. Tag and Provide Hwy Lt Luminaire and I.D. Tag Indicated. Replace Exst Hwy Lt Wiring, See Hwy Lt Connection Diagram.
  - 9 Remove Exst Hwy Lt Std with Traffic Signal Head and Conc Base. Provide Hwy Lt Std with Traffic Signal Head Indicated. Provide Temp Hwy Lighting and Traffic Signal Until New Hwy Lt and Traffic Signal are Operational.
  - 10 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Full Width Sidewalk Prior to Excavation. Repair Full Width Conc Sidewalk.
  - 11 Saw Cut Exst Sidewalk at Scorelines and Demolish Exst Sidewalk Prior to Excavation. Construct Conc Sidewalk, See Roadway Plan.
  - 12 Remove Exst St Lt (City), Conduit Riser & Wiring to Exst St Lt No. 3.
  - 13 Seal Exst Conduits on West Wall with Grout.
  - 14 ~~Saw Cut Exst Sidewalk at Scorelines and Demolish Exst Abandoned Conc Pedestal. Repair Conc Sidewalk to Match Exst.~~
  - 14 ~~Demolish Exst Abandoned Conc Pedestal Located Within Conc Island. Repair Conc Island. New Conc Pavement to Match Exst Thickness and be Flush With Top of Exst Pavement.~~
- 
- THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. ("OBSERVATION OF CONSTRUCTION" SHALL BE AS DEFINED IN CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII, SUBCHAPTER 1, SECTION 16-115-2, DEFINITIONS, EFFECTIVE 06/29/94).



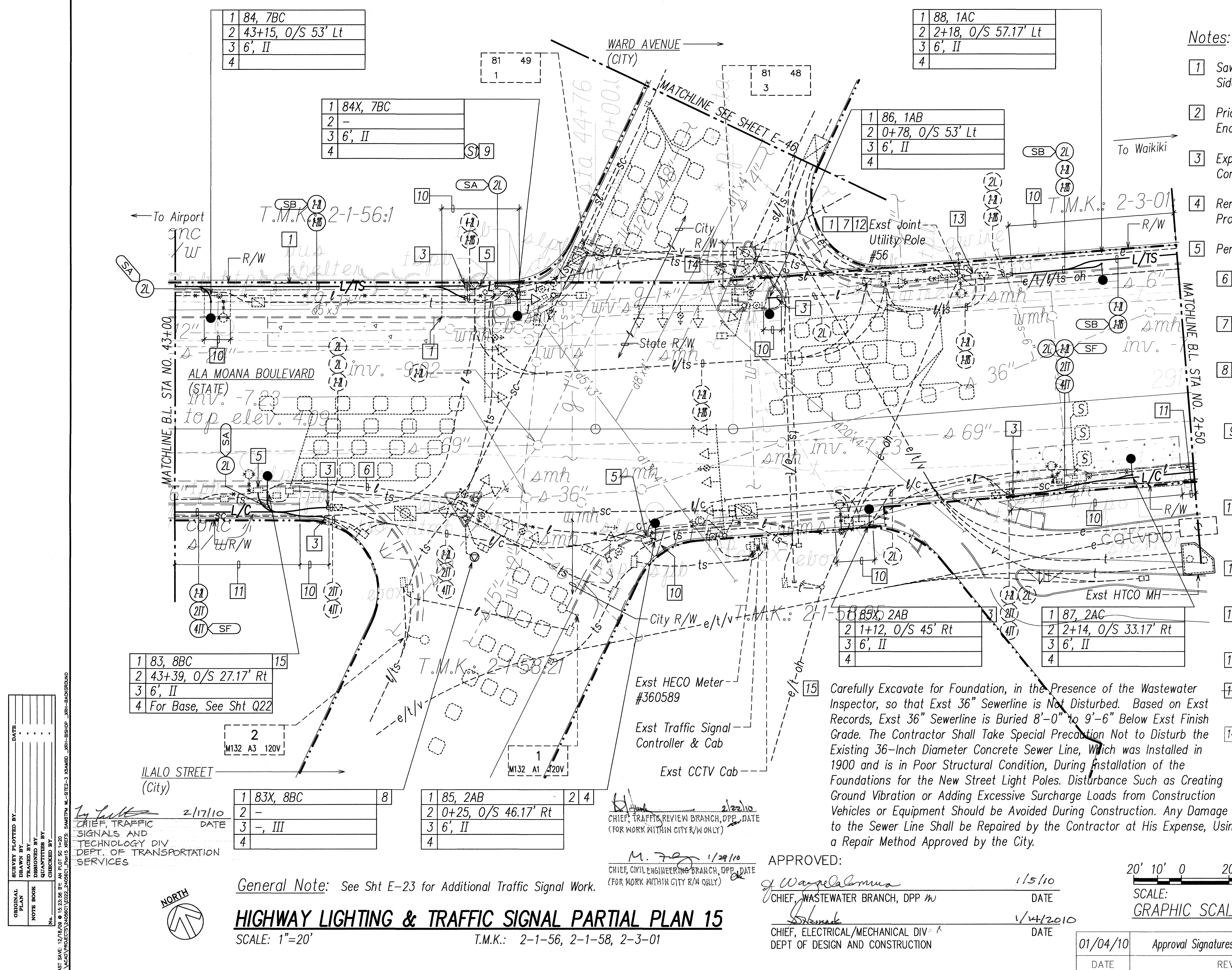
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THE PROJECT WILL BE UNDER MY OBSERVATION ("OBSERVATION OF CONSTRUCTION" SHALL AS DEFINED IN CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII, SUBCHAPTER 1, SECTION 16-115-2, DEFINITION EFFECTIVE 08/29/04).

BY Slevin Hada  
 LICENSE EXPIRES: 4-30-10

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
HIGHWAY LIGHTING & TRAFFIC SIGNAL  
PARTIAL PLAN 15  
NIMITZ HIGHWAY AND ALA MOANA BOULEVARD  
RESURFACING AND HIGHWAY LIGHTING REPLACEMENT  
FEDERAL AID PROJECT NO. NH-092-1(27)

|                                    |                   |
|------------------------------------|-------------------|
| Scale: AS NOTED                    | Date: AUGUST 2009 |
| <b>SHEET No. E-22 OF 92 SHEETS</b> |                   |

ADD. 107

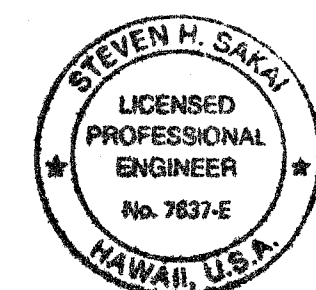




| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(27)       | 2009        | ADD. 117  | 302          |

Notes: (Continued)

- 5 Expose Exst Conc Encased Conduit and Remove Exst Encasement. Cut Exst Conduit, Provide Coupling and Extend Exst Conduit to Hwy Lt Std. Provide Wiring per Connection Diagram.
- 6 Remove Exst Hwy Lt Wiring and Provide Wiring per Hwy Lt Connection Diagram.
- 7 Remove Exst Hwy Lt Wiring, Cap Exst Hwy Lt Conduit, and Abandon-In-Place.
- 8 Penetrate Exst Pullbox to Terminate Conduit(s). Repair to Match Exst.
- 9 Exst 2-2"C. Provide 1-Fiber Optic Cable in Exst 2"C.
- 10 Exst Hwy Lt & Traffic Signal Conduit & Wiring. Remove Exst 1-Fiber Optic Cable and Provide Pullwire.
- 11 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Full Width Sidewalk Prior to Excavation. Repair Full Width Conc Sidewalk.
- 12 Carefully Demolish Exst CRM Wall as Required to Install Ductline and Hwy Lt Std. Reconstruct Wall Using Exst Rocks to Match Exst. See Sht 19 for Demolition and Reconstruction of Exst Wall.
- 13 "Ala Moana Blvd. Sewer Reconstruction" NTP: 01/11/2010, Completion: 10/07/2010



CHIEF, TRAFFIC REVIEW BRANCH, DPP DATE 1/22/10  
 CHIEF, TRAFFIC SIGNALS AND TECHNOLOGY DIV DATE 2/16/10  
 DEPT. OF TRANSPORTATION SERVICES

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (CERTIFICATION OF CONSTRUCTION) SHALL BE AS DEFINED IN CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII, SUBCHAPTER 1, SECTION 16-115-2, DEFINITIONS, EFFECTIVE 08/22/04.

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

HIGHWAY LIGHTING & TRAFFIC SIGNAL

PARTIAL PLAN 23

NIMITZ HIGHWAY AND ALA MOANA BOULEVARD

RESURFACING AND HIGHWAY LIGHTING REPLACEMENT

FEDERAL AID PROJECT NO. NH-092-1(27)

Scale: AS NOTED

Date: AUGUST 2009

SHEET No. E-32 OF 92 SHEETS

|          |                     |
|----------|---------------------|
| 01/04/10 | Approval Signatures |
| DATE     | REVISION            |

APPROVED:

1/5/10

DATE

CHIEF, WASTEWATER BRANCH, DPP

20' 10' 0 20' 40' 60'

SCALE: 1"=20'

GRAPHIC SCALE

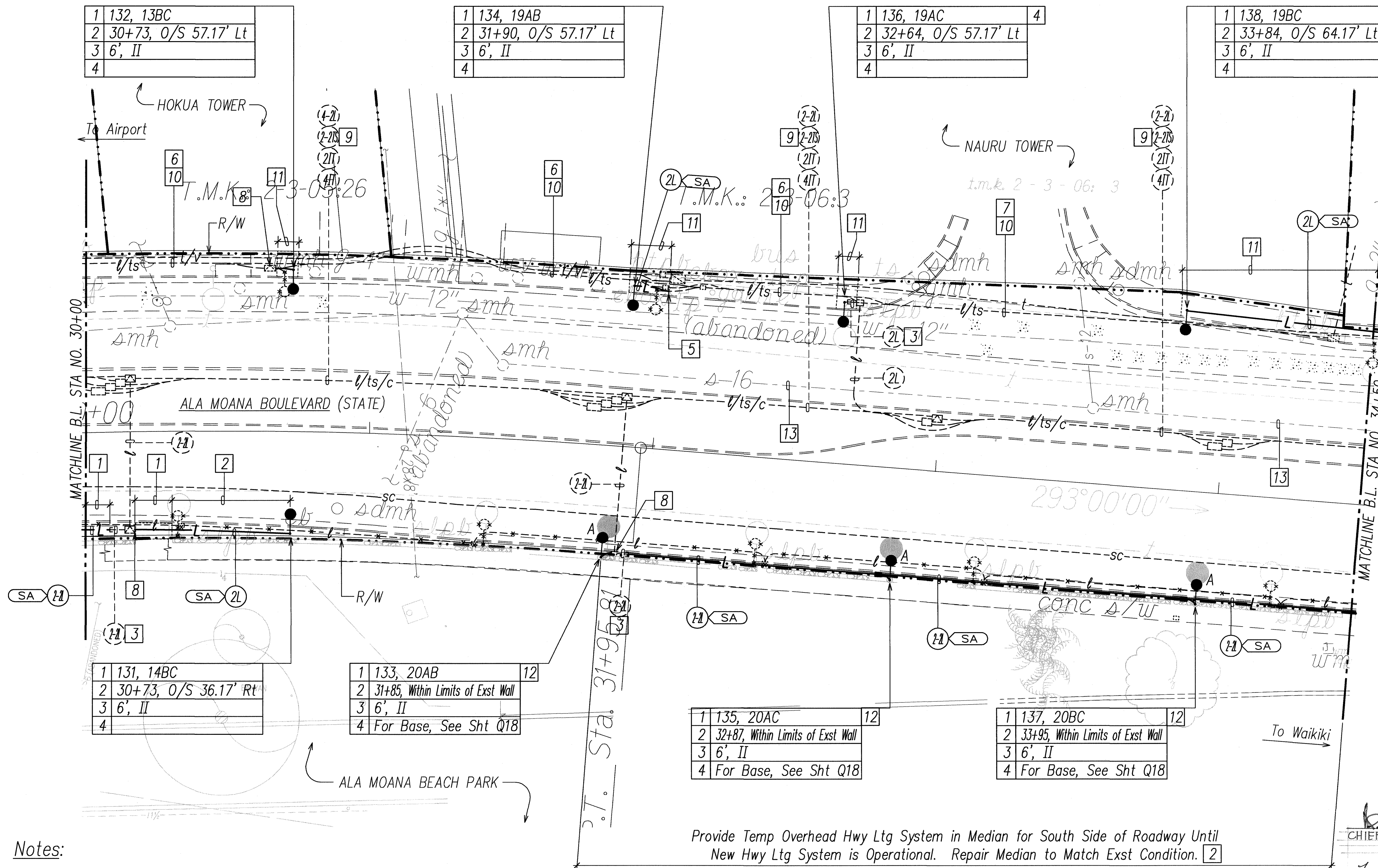
Provide Temp Overhead Hwy Ltg System in Median for South Side of Roadway Until New Hwy Ltg System is Operational. Repair Median to Match Exst Condition. 2

- Notes:
- 1 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Sidewalk Prior to Excavation. Construct Conc Sidewalk, See Roadway Plan.
  - 2 Remove Exst A.C. Shoulder Prior to Trench Excavation. Repair A.C. Shoulder. Use 5" Superpave HMA Pavement and 10" HMA Glassphalt Base Course.
  - 3 Expose Exst Conc Stub-Out, Provide Coupling(s) and Extend Exst Conduit(s).
  - 4 Remove Exst Hwy Lt Std and Conc Base. Provide Hwy Lt Std Indicated. Provide Temp Ltg Until New Hwy Lt Std is Operational.



# HIGHWAY LIGHTING & TRAFFIC SIGNAL PARTIAL PLAN 23

SCALE: 1"=20' T.M.K.: 2-3-05, 2-3-06



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

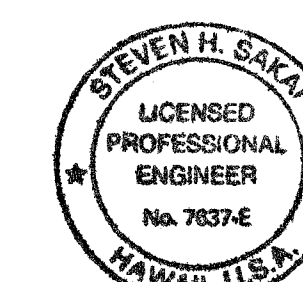
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| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(27)       | 2009        | ADD. 118  | 302          |

# Notes:

- 1 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Full Width Sidewalk Prior to Excavation. Repair Full Width Conc Sidewalk.
- 2 Intercept Exst St Lt Conduit & Wiring with Pullbox Indicated.
- 3 Expose Exst Conduit Stub-Out, Provide Coupling(s) and Extend Exst Conduit(s).
- 4 Remove Exst Hwy Lt Wiring, Cap Exst Conduit, and Abandon-In-Place.
- 5 Penetrate Exst Pullbox to Terminate Conduit(s). Repair to Match Exst.
- 6 Prior to Installing Hwy Lt Std, Provide Split Duct(s) with 3" Conc Encasement for Exst TS Interconnect and Fiber Optic Cables to Relocate Exst TS Conduit & Wiring.
- 7 Remove Exst Conc Shoulder Prior to Trench Excavation. Repair Conc Shoulder.
- 8 Relocate Exst Traffic Signal Heads (Two Total) to New Hwy Lt Std. Remove Exst TS Std and Conc Base. Extend Exst TS Conduit to New Hwy Lt Std and Provide TS Wiring.
- 9 Exst 2-2"C. Provide 1-Fiber Optic Cable in Exst 2"C.
- 10 Exst 2-2"C. Provide 1-Fiber Optic Cable in Exst Spare 2"C.
- 11 Remove Exst Fiber Optic Cable in Exst Conduit.
- 12 Exst 6-2"C with Exst Cable. Provide 1-Fiber Optic Cable in Exst Spare 2"C.
- 13 Remove Exst 1-Fiber Optic Cable (To Kamakee St) and Provide 1-Fiber Optic Cable.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. ("OBSERVATION OF CONSTRUCTION" SHALL BE AS DEFINED IN CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII, SUBCHAPTER 1, SECTION 16-115-2, DEFINITIONS, EFFECTIVE 08/28/94).

Steven H. Sakai  
LICENSE EXPIRES 7-30-10

|  |                   |
|--|-------------------|
| <b>STATE OF HAWAII</b><br><b>DEPARTMENT OF TRANSPORTATION</b><br><b>HIGHWAYS DIVISION</b><br><b>HIGHWAY LIGHTING &amp; TRAFFIC SIGNAL</b><br><b>PARTIAL PLAN 24</b><br><b>NIMITZ HIGHWAY AND ALA MOANA BOULEVARD</b><br><b>RESURFACING AND HIGHWAY LIGHTING REPLACEMENT</b><br><b>FEDERAL AID PROJECT NO. NH-092-1(27)</b> |                   |
| Scale: AS NOTED  | Date: AUGUST 2009 |
| SHEET No. E-33 OF 92 SHEETS  |                   |

20' 10' 0 20' 40' 60'  
SCALE: 1"=20'  
GRAPHIC SCALE

APPROVED:

Wayne Dabrowski  
CHIEF, WASTEWATER BRANCH, DPP  
DATE 1/5/10  
1/14/2010  
CHIEF, ELECTRICAL/MECHANICAL DIV  
DEPT OF DESIGN AND CONSTRUCTION  
CITY & COUNTY OF HONOLULU  
(FOR STREET LIGHT WORK ONLY)

M. 729  
CHIEF, CIVIL ENGINEERING BRANCH, DPP  
(FOR WORK WITHIN CITY R/W ONLY)  
DATE 1/29/10

|          |                     |
|----------|---------------------|
| 01/04/10 | Approval Signatures |
| DATE     | REVISION            |



## HIGHWAY LIGHTING & TRAFFIC SIGNAL PARTIAL PLAN 24

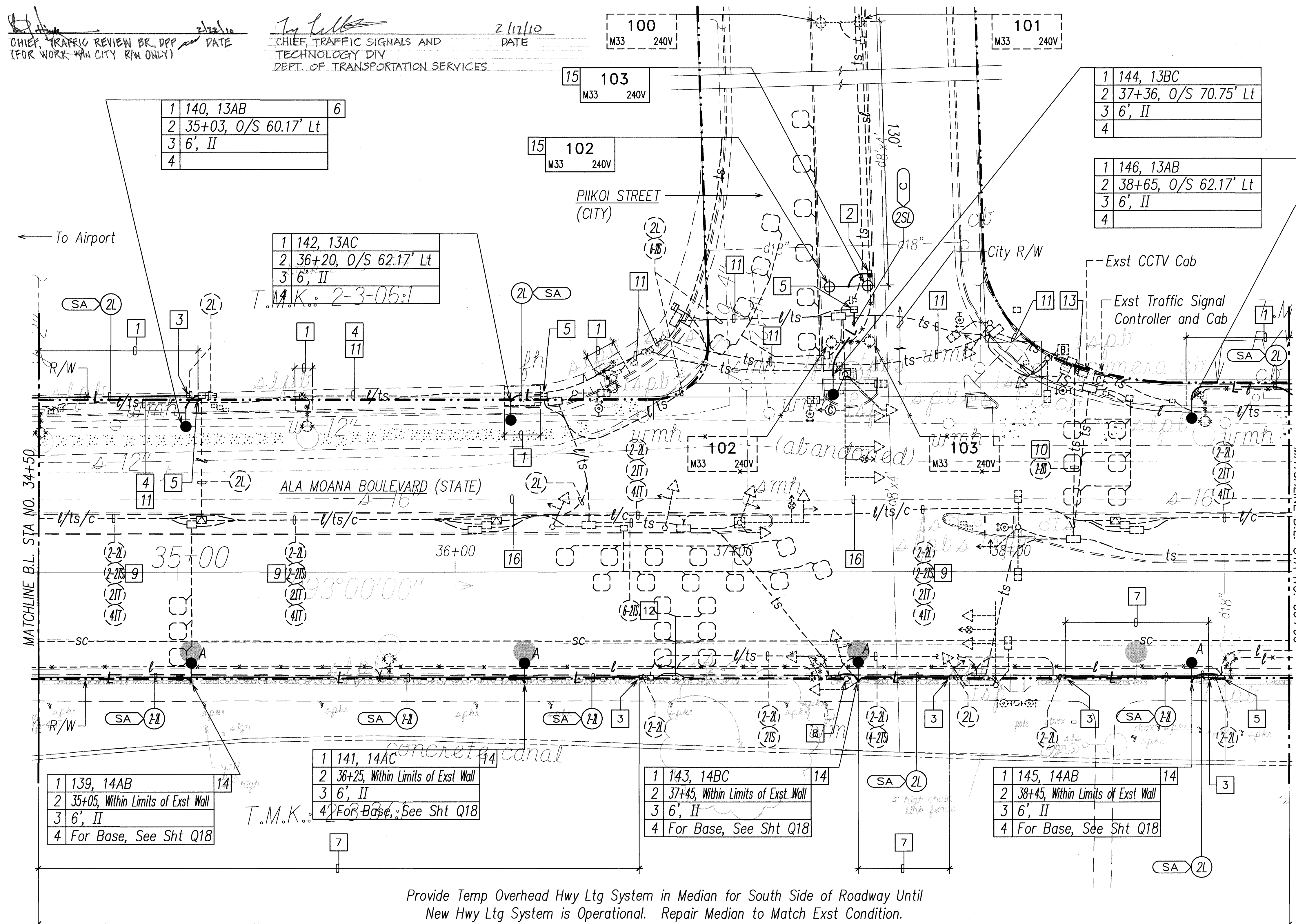
SCALE: 1"=20' T.M.K.: 2-3-06, 2-3-38

Provide Temp Overhead Hwy Ltg System in Median for South Side of Roadway Until New Hwy Ltg System is Operational. Repair Median to Match Exst Condition.

- 14 Carefully Demolish Exst CRM Wall as Required to Install Ductline and Hwy Lt Std. Reconstruct Wall Using Exst Rocks to Match Exst. See Sht 19 for Demolition and Reconstruction of Exst Wall.
- 15 City St Lt Std, See Shts E-89 to E-90
- 16 "Ala Moana Blvd. Sewer Reconstruction" NTP: 01/11/2010, Completion: 10/07/2010

|               |      |
|---------------|------|
| DESIGNED BY   | DATE |
| DRAWN BY      |      |
| CHECKED BY    |      |
| NOTED BY      |      |
| QUANTITIES BY |      |
| DATE          |      |

LAST SAVE: 12/19/09 @ 15:24:45 BY: AN PLOT SC: 1=20  
Z:\ADD\PROJECTS\240501\240501\_240501\_P24.dwg PLOT24 REFS: SAMPN M SITE2-3 XWMS \_XRI-RESUP \_XRI-BACKGRND



CHIEF, TRAFFIC REVIEW BR, DPP  
(FOR WORK WITHIN CITY R/W ONLY)  
DATE 2/22/10

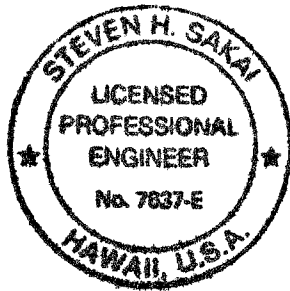
CHIEF, TRAFFIC SIGNALS AND TECHNOLOGY DIV  
DEPT. OF TRANSPORTATION SERVICES  
DATE 2/17/10



| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(27)       | 2009        | ADD. 119  | 302          |

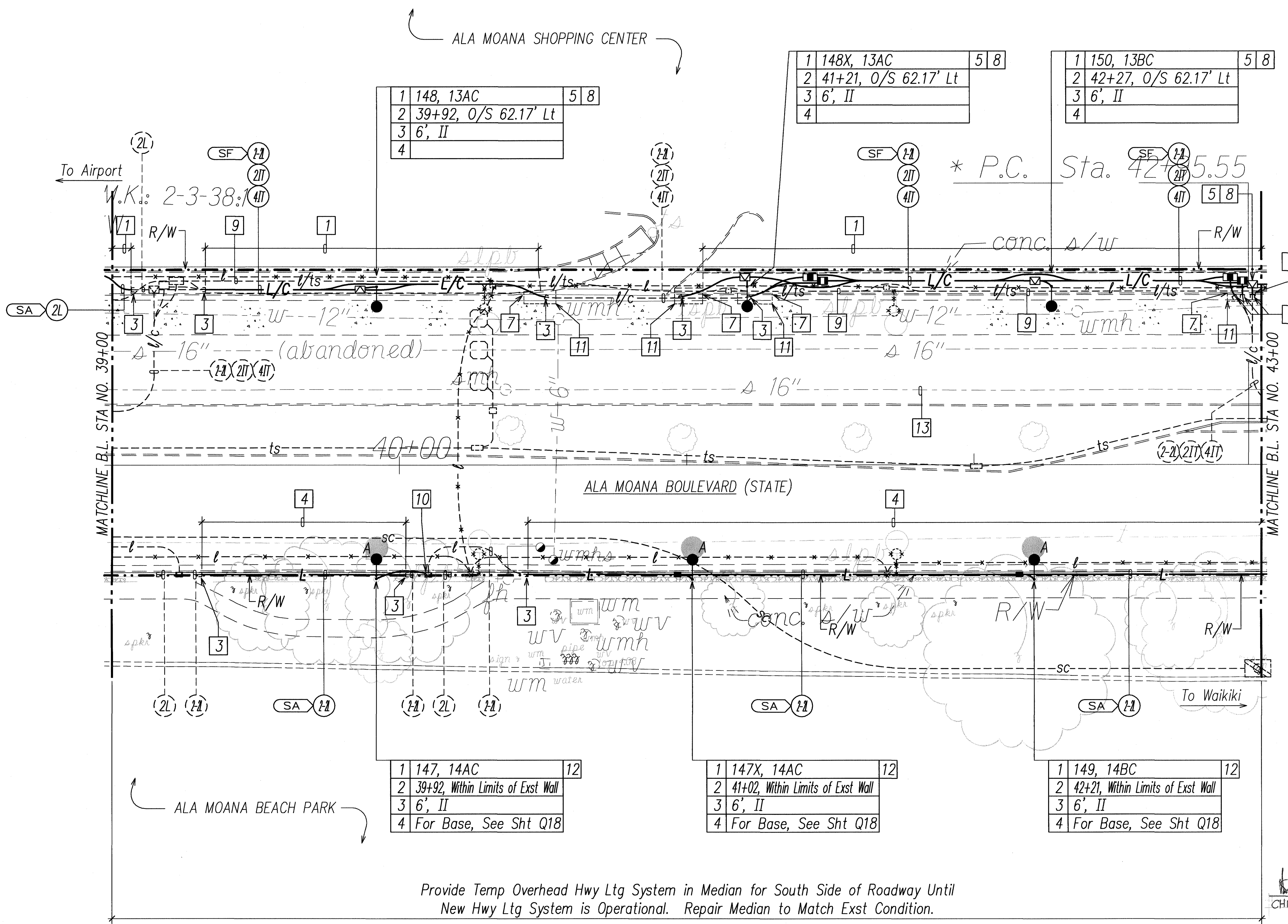
Notes:

- 1 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Full Width Sidewalk Prior to Excavation. Repair Full Width Conc Sidewalk.
- 2 Saw Cut Exst A.C. Pavement and Demolish Exst Pavement Prior to Trench Excavation. Repair Pavement Structures, See Sheet E-47.
- 3 Expose Exst Conduit Stub-Out, Provide Coupling(s) and Extend Exst Conduit(s).
- 4 Remove Exst Conc Shoulder Prior to Trench Excavation. Repair Conc Shoulder per Conc Sidewalk Det.
- 5 Prior to Installing Hwy Lt Std or Pullbox, Provide Split Duct(s) for Exst Hwy Lt Wiring to Temporarily Relocate Exst Hwy Lt Conduit & Wiring.
- 6 Saw Cut Exst Conc Roadway at Construction Joint and Demolish Exst Pavement Prior to Trench Excavation. Repair Conc Roadway, See Sht E-47.
- 7 Saw Cut Exst Conc Curb and Gutter at Scorelines and Demolish Exst Curb and Gutter Prior to Trench Excavation. Construct Type 2DG Curb and Gutter.
- 8 Prior to Installing Hwy Lt Std or Pullbox, Provide Split Duct(s) with 3" Conc Encasement for Exst TS Wiring to Relocate Exst TS Conduit & Wiring.
- 9 Remove Exst Hwy Lt Wiring, Cap Exst Hwy Lt Conduit, and Abandon-In-Place.
- 10 Penetrate Exst Pullbox to Terminate Conduit(s). Repair to Match Exst.
- 11 Saw Cut Exst Conc Thru-Gutter at Construction Joint and Demolish Exst Thru-Gutter Prior to Trench Excavation. Repair Conc Thru-Gutter.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (SIGNATURE OF PROFESSIONAL ENGINEER, ARCHITECTS AND SURVEYORS, STATE OF HAWAII, SUBCHAPTER 1, SECTION 16-115-2, DEFINITIONS, EFFECTIVE 08/29/96).

CHIEF, TRAFFIC REVIEW BRANCH, DPP *[Signature]* 2/22/10  
CHIEF, TRAFFIC SIGNALS AND TECHNOLOGY DIV *[Signature]* 2/17/10  
DEPT. OF TRANSPORTATION SERVICES

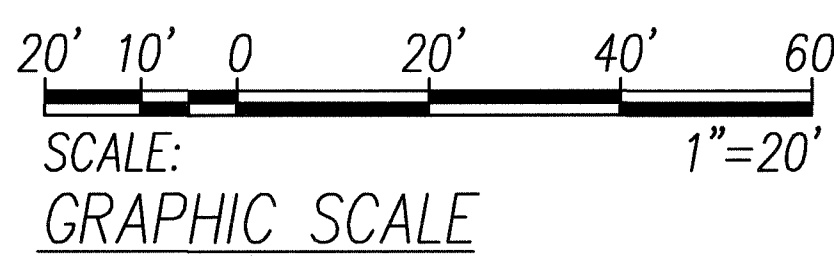


- 12 Carefully Demolish Exst CRM Wall as Required to Install Ductline and Hwy Lt Std. Reconstruct Wall Using Exst Rocks to Match Exst. See Sht 19 for Demolition and Reconstruction of Exst Wall.
- 13 "Ala Moana Blvd. Sewer Reconstruction" NTP: 01/11/2010, Completion: 10/07/2010

Provide Temp Overhead Hwy Ltg System in Median for South Side of Roadway Until New Hwy Ltg System is Operational. Repair Median to Match Exst Condition.

APPROVED:

*[Signature]* 1/5/10  
CHIEF, WASTEWATER BRANCH, DPP *[Signature]* DATE



# **HIGHWAY LIGHTING & TRAFFIC SIGNAL PARTIAL PLAN 25** SCALE: 1"=20' T.M.K.: 2-3-38

|          |                     |
|----------|---------------------|
| 01/04/10 | Approval Signatures |
| DATE     | REVISION            |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**HIGHWAY LIGHTING & TRAFFIC SIGNAL**  
**PARTIAL PLAN 25**  
NIMITZ HIGHWAY AND ALA MOANA BOULEVARD  
RESURFACING AND HIGHWAY LIGHTING REPLACEMENT  
FEDERAL AID PROJECT NO. NH-092-1(27)

Scale: AS NOTED Date: AUGUST 2009

**SHEET No. E-34 OF 92 SHEETS**

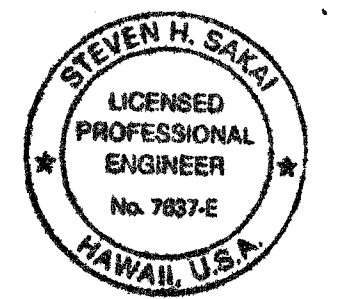


|  |                         |
|--|-------------------------|
| (R)  | SIGNAL INDICATION       |
| (Y)  |                         |
| (G)  |                         |
| 12" RYG TRAFFIC SIGNAL HEAD (L.E.D. SIGNAL ASSEMBLY) | DESCRIPTION             |
| →  | SYMBOL                  |
| A-1  | SIGNAL HEAD DESIGNATION |

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(27)       | 2009        | ADD. 120  | 302          |

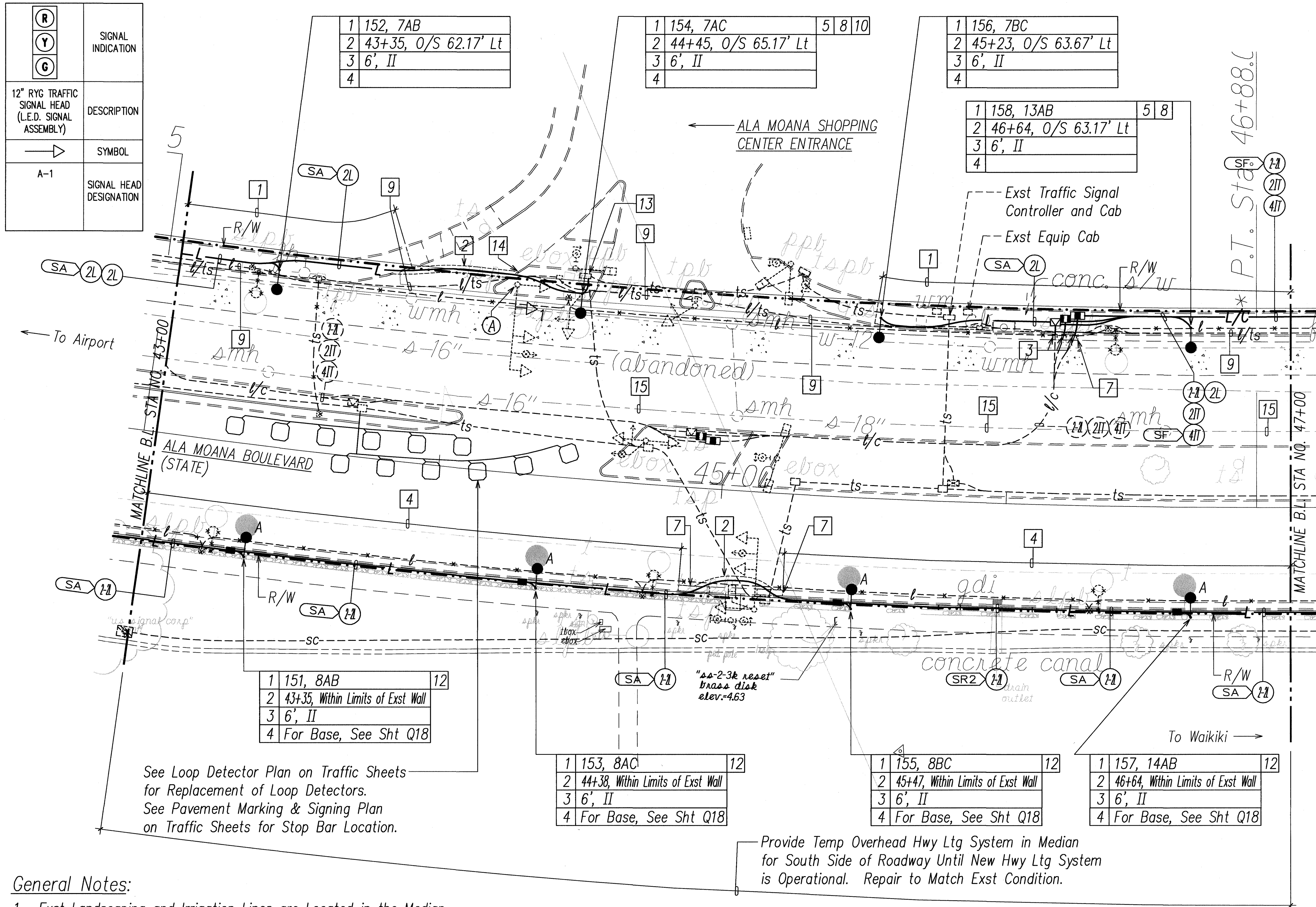
Notes:

- 1 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Full Width Sidewalk Prior to Excavation. Repair Full Width Conc Sidewalk.
- 2 Saw Cut Exst A.C. Pavement and Demolish Exst Pavement Prior to Trench Excavation. Repair Pavement Structure, See Sheet E-47.
- 3 Expose Exst Conduit Stub-Out, Provide Coupling(s) and Extend Conduit(s).
- 4 Remove Exst Conc Shoulder Prior to Trench Excavation. Repair Conc Shoulder per Conc Sidewalk Det.
- 5 Prior to Installing Hwy Lt Std, Provide Split Duct(s) for Exst Hwy Lt Wiring to Temporarily Relocate Exst Hwy Lt Conduit & Wiring.
- 6 Saw Cut Exst Conc Roadway at Construction Joint and Demolish Exst Pavement Prior to Trench Excavation. Repair Conc Roadway, See Sht E-47. (Backfill Section 1, Case 3)
- 7 Saw Cut Exst Conc Curb and Gutter at Scorelines and Demolish Exst Curb and Gutter Prior to Trench Excavation. Construct Type 2DG Curb and Gutter.
- 8 Prior to Installing Hwy Lt Std, Provide Split Duct(s) with 3" Conc Encasement for Exst TS Wiring to Relocate Exst TS Conduit & Wiring.
- 9 Remove Exst Hwy Lt Wiring, Cap Exst Hwy Lt Conduit, and Abandon-In-Place.
- 10 Remove Exst Hwy Lt Std and Conc Base. Salvage Exst Traffic Signal Head. Provide Hwy Lt Std and TS Head Bracket Mount and Reinstall Traffic Signal Head. Provide Temp Lighting and Traffic Signals Until New Hwy Lt and Traffic Signals are Operational.
- 11 Saw Cut Exst A.C. Curb and Demolish Exst Curb Prior to Trench Excavation Repair Type 6 Curb.
- 12 Carefully Demolish Exst CRM Wall as Required to Install Ductline and Hwy Lt Std. Reconstruct Wall Using Exst Rocks to Match Exst. See Sht 19 for Demolition and Reconstruction of Exst Wall.
- 13 Penetrate Exst Pullbox to Terminate Conduit(s). Repair to Match Exst.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. OBSERVATION OF CONSTRUCTION SHALL BE AS DEFINED IN CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII, SUBCHAPTER 1, SECTION 16-113-2, DEFINITIONS, EFFECTIVE 08/29/04.

*Steven H. Sakai*  
LICENSED PROFESSIONAL ENGINEER  
No. 7887-E  
HAWAII, U.S.A.



General Notes:

1. Exst Landscaping and Irrigation Lines are Located in the Median. The Contractor shall Adjust the Ductline Installation as Necessary to Avoid Conflicts with the Exst Trees and Irrigation System. Any Damages to the Exst Irrigation System shall be Repaired by the Contractor at No Cost to the State. The Contractor shall Restore Landscaping to Match Exst.
2. For Additional Trench Excavation Requirements in the Median, See Landscape Sht.

- 14 Saw Cut Exst Conc Curb at Scorelines and Demolish Exst Curb Prior to Trench Excavation. Construct Type 2D Curb.
- 15 "Ala Moana Blvd. Sewer Reconstruction" NTP: 01/11/2010, Completion: 10/07/2010

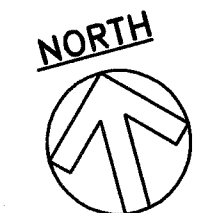
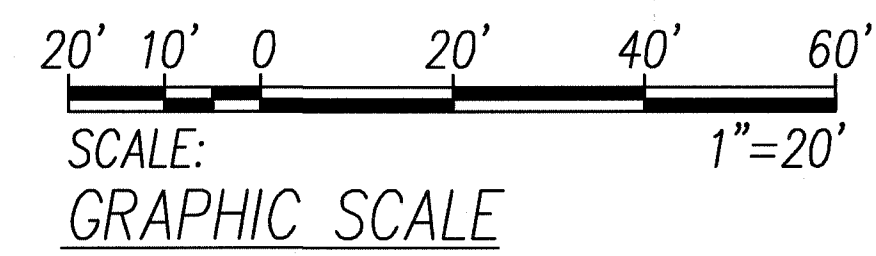
Provide Temp Overhead Hwy Ltg System in Median for South Side of Roadway Until New Hwy Ltg System is Operational. Repair to Match Exst Condition.

APPROVED:

*[Signature]* 1/5/10  
CHIEF, TRAFFIC REVIEW BRANCH, DPP DATE

*[Signature]* 1/5/10  
CHIEF, WASTEWATER BRANCH, DPP DATE

*[Signature]* 2/17/10  
CHIEF, TRAFFIC SIGNALS AND TECHNOLOGY DIV DATE  
DEPT. OF TRANSPORTATION SERVICES



**HIGHWAY LIGHTING & TRAFFIC SIGNAL PARTIAL PLAN 26**

SCALE: 1"=20' T.M.K.: 2-3-38

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**HIGHWAY LIGHTING & TRAFFIC SIGNAL**  
**PARTIAL PLAN 26**  
NIMITZ HIGHWAY AND ALA MOANA BOULEVARD  
RESURFACING AND HIGHWAY LIGHTING REPLACEMENT  
FEDERAL AID PROJECT NO. NH-092-1(27)


Scale: AS NOTED Date: AUGUST 2009

SHEET No. E-35 OF 92 SHEETS

|          |                     |
|----------|---------------------|
| 01/04/10 | Approval Signatures |
| DATE     | REVISION            |



Notes:

- 
- A circular professional engineer seal for Steven H. Sakai. The outer ring contains the name "STEVEN H. SAKAI" at the top and "HAWAII, U.S.A." at the bottom. The inner circle contains the text "LICENSED PROFESSIONAL ENGINEER" and the number "No. 7837-E". Two small stars are positioned on the left and right sides of the inner circle.

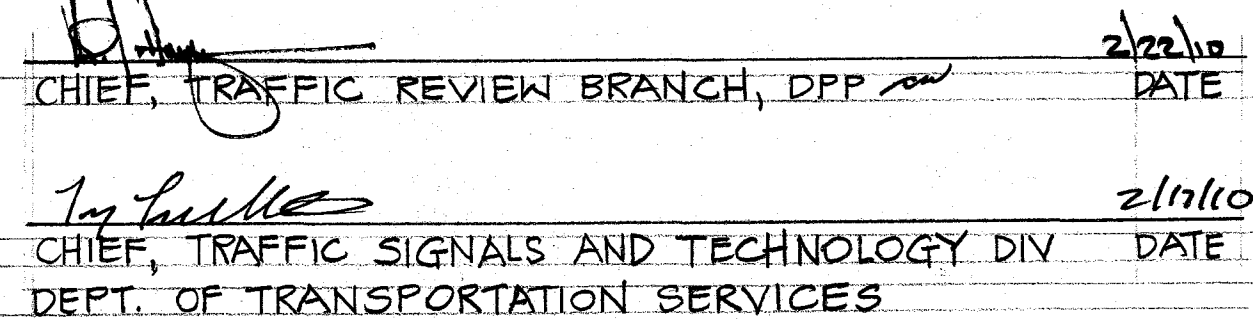
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. OBSERVATION OF CONSTRUCTION" SHALL BE AS DEFINED IN CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII, SUBCHAPTER 1, SECTION 16-115-2, DEFINITIONS, EFFECTIVE 08/29/94).

Stewart Haber  
LICENSE EXPIRES: 4-30-10

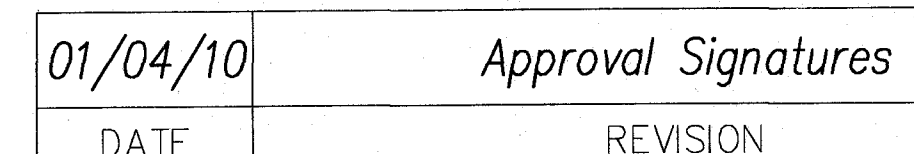
Scale: AS NOTED Date: AUGUST 2009

**SHEET No. E-36 OF 92 SHEETS**

**ADD. 121**



*J. Wayne Salmons* 1/5/10  
CHIEF, WASTEWATER BRANCH, DPP m DATE



NORTH



SCALE: 1"=20' T.M.K.: 2-3-38

|               |                         |            |
|---------------|-------------------------|------------|
| ORIGINAL PLAN | SURVEY PLOTTED BY _____ | DATE _____ |
| NOTE BOOK     | DRAWN BY _____          | " _____    |
|               | TRACED BY _____         | " _____    |
|               | DESIGNED BY _____       | " _____    |
|               | QUANTITIES BY _____     | " _____    |
| No. _____     | CHECKED BY _____        | _____      |
|               | _____                   | _____      |

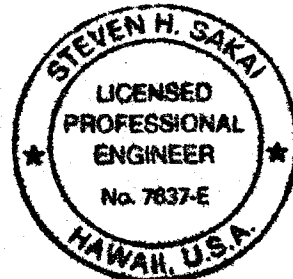
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 2: \ACAN\PROJECTS\2AD55C1\ENVS 2AD55C1 Plm27 XREFS:  
 W - SITE2 - 3 X5AMHD XRH-BISHOP 5AMBTPM XRH-BACKGROUND



| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(27)       | 2009        | ADD. 122  | 302          |

Notes:

- 1 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Full Width Sidewalk Prior to Excavation. Repair Full Width Conc Sidewalk.
- 2 Saw Cut Exst A.C. Pavement and Demolish Exst Pavement Prior to Trench Excavation. Repair Pavement Structure, See Sheet E-47.
- 3 Remove Exst Hwy Lt Wiring, Cap Exst Hwy Lt Conduit, and Abandon-In Place.
- 4 Remove Exst Conc Shoulder Prior to Trench Excavation. Repair Conc Shoulder per Conc Sidewalk Det.
- 5 Prior to Installing Hwy Lt Std, Provide Split Duct(s) for Exst Hwy Lt Wiring to Temporarily Relocate Exst Hwy Lt Conduit & Wiring.
- 6 Saw Cut Exst Conc Roadway at Construction Joint and Demolish Exst Pavement Prior to Trench Excavation. Repair Conc Roadway, See Sht E-47. (Backfill Section 1, Case 3)
- 7 Saw Cut Exst Conc Curb and Gutter at Scorelines and Demolish Exst Curb and Gutter Prior to Trench Excavation. Construct Type 2DG Curb and Gutter.
- 8 Prior to Installing Hwy Lt Std, Provide Split Duct(s) with 3" Conc Encasement for Exst TS Wiring to Relocate Exst TS Conduit & Wiring.
- 9 Carefully Demolish Exst CRM Wall as Required to Install Ductline and Hwy Lt Std. Reconstruct Wall Using Exst Rocks to Match Exst. See Sht 19 for Demolition and Reconstruction of Exst Wall.
- 10 Saw Cut Exst A.C. Curb and Demolish Exst Curb Prior to Trench Excavation. Repair Type 6 Curb. See Roadway Plan for Curb Type.
- 11 Saw Cut Exst Conc Curb at Scorelines and Demolish Exst Curb Prior to Trench Excavation. Construct Type 2D Curb.
- 12 Provide Temp Overhead Hwy Lt System in Median for South Side of Roadway Until New Hwy Lt System is Operational. Repair Median to Match Exst Condition.
- 13 Saw Cut Exst Conc Thru-Gutter at Construction Joint and Demolish Exst Thru-Gutter Prior to Trench Excavation. Repair Conc Thru-Gutter.
- 14 Remove Exst Hwy Lt Std and Conc Base and Provide Hwy Lt Indicated. Provide Temp Lighting Until New Hwy Lts are Operational.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. ("OBSERVATION OF CONSTRUCTION" SHALL BE AS DEFINED IN CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII, SUBCHAPTER 1, SECTION 16-115-2, DEFINITIONS, EFFECTIVE 08/29/94).

*Steven H. Sakai*  
 LICENSE EXPIRES 4-30-10

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

HIGHWAY LIGHTING & TRAFFIC SIGNAL

PARTIAL PLAN 28

NIMITZ HIGHWAY AND ALA MOANA BOULEVARD

RESURFACING AND HIGHWAY LIGHTING REPLACEMENT

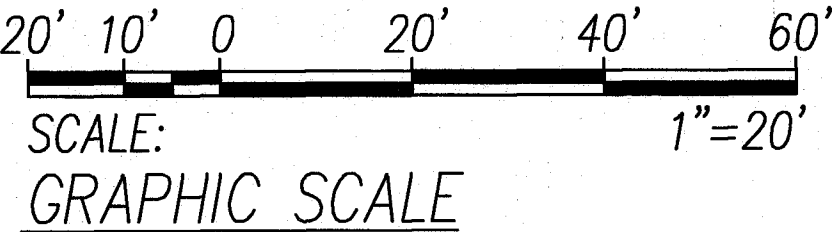
FEDERAL AID PROJECT NO. NH-092-1(27)

Scale: AS NOTED

Date: AUGUST 2009

SHEET No. E-37 OF 92 SHEETS

|          |                     |
|----------|---------------------|
| 01/04/10 | Approval Signatures |
| DATE     | REVISION            |



CHIEF, TRAFFIC REVIEW BRANCH, DPP DATE 2/22/10

CHIEF, TRAFFIC SIGNALS AND TECHNOLOGY DIV DATE 2/17/10

DEPT. OF TRANSPORTATION SERVICES

APPROVED:

*W. Wapellaluma*  
 CHIEF, WASTEWATER BRANCH, DPP

1/5/10  
 DATE

Notes: (Continued)

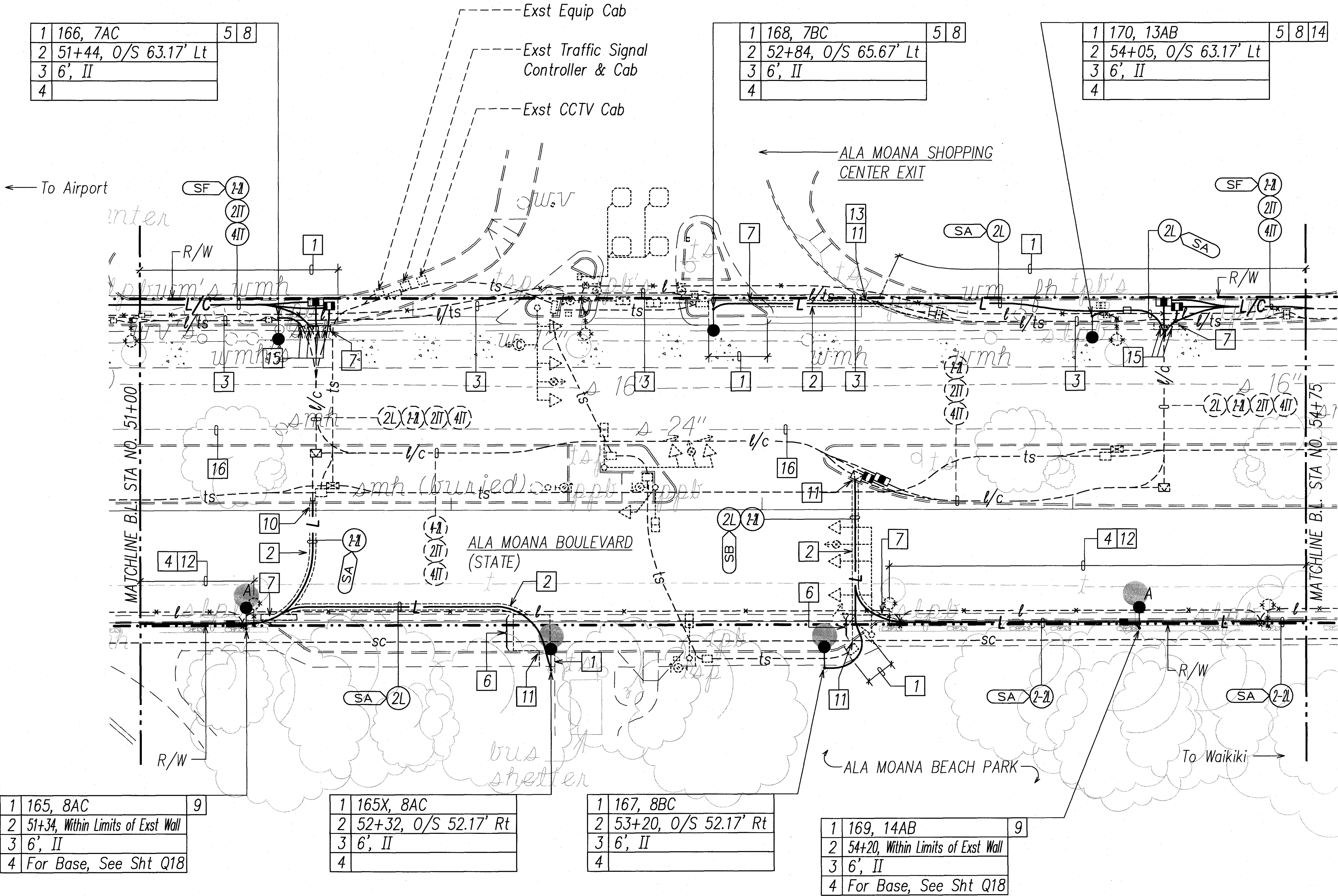
- 15 Expose Exst Conduit Stub-Out, Provide Coupling(s) and Extend Conduit(s).
- 16 "Ala Moana Blvd. Sewer Reconstruction" NTP: 01/11/2010, Completion: 10/07/2010

# HIGHWAY LIGHTING & TRAFFIC SIGNAL PARTIAL PLAN 28

SCALE: 1"=20' T.M.K.: 2-3-38

General Notes:

1. Exst Landscaping and Irrigation Lines are Located in the Median. The Contractor shall Adjust the Ductline Installation as Necessary to Avoid Conflicts with the Exst Trees and Irrigation System. Any Damages to the Exst Irrigation System shall be Repaired by the Contractor at No Cost to the State. The Contractor shall Restore Landscaping to Match Exst.
2. For Additional Trench Excavation Requirements in the Median, See Landscape Sht.



|   |                      |   |   |
|---|----------------------|---|---|
| 1 | 166, 7AC             | 5 | 8 |
| 2 | 51+44, O/S 63.17' Lt |   |   |
| 3 | 6', II               |   |   |
| 4 |                      |   |   |

|   |                      |   |   |
|---|----------------------|---|---|
| 1 | 168, 7BC             | 5 | 8 |
| 2 | 52+84, O/S 65.67' Lt |   |   |
| 3 | 6', II               |   |   |
| 4 |                      |   |   |

|   |                      |   |   |    |
|---|----------------------|---|---|----|
| 1 | 170, 13AB            | 5 | 8 | 14 |
| 2 | 54+05, O/S 63.17' Lt |   |   |    |
| 3 | 6', II               |   |   |    |
| 4 |                      |   |   |    |

|   |                                   |   |
|---|-----------------------------------|---|
| 1 | 165, 8AC                          | 9 |
| 2 | 51+34, Within Limits of Exst Wall |   |
| 3 | 6', II                            |   |
| 4 | For Base, See Sht Q18             |   |

|   |                      |  |
|---|----------------------|--|
| 1 | 165X, 8AC            |  |
| 2 | 52+32, O/S 52.17' Rt |  |
| 3 | 6', II               |  |
| 4 |                      |  |

|   |                      |  |
|---|----------------------|--|
| 1 | 167, 8BC             |  |
| 2 | 53+20, O/S 52.17' Rt |  |
| 3 | 6', II               |  |
| 4 |                      |  |

|   |                                   |   |
|---|-----------------------------------|---|
| 1 | 169, 14AB                         | 9 |
| 2 | 54+20, Within Limits of Exst Wall |   |
| 3 | 6', II                            |   |
| 4 | For Base, See Sht Q18             |   |

|               |  |
|---------------|--|
| DATE          |  |
| DESIGNED BY   |  |
| TRACED BY     |  |
| NOTED BY      |  |
| CHECKED BY    |  |
| ORIGINAL PLAN |  |
| NOTE BOOK     |  |
| No.           |  |

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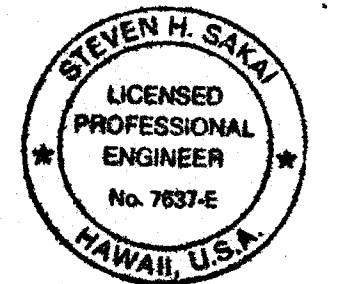
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| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(27)       | 2009        | ADD. 123  | 302          |

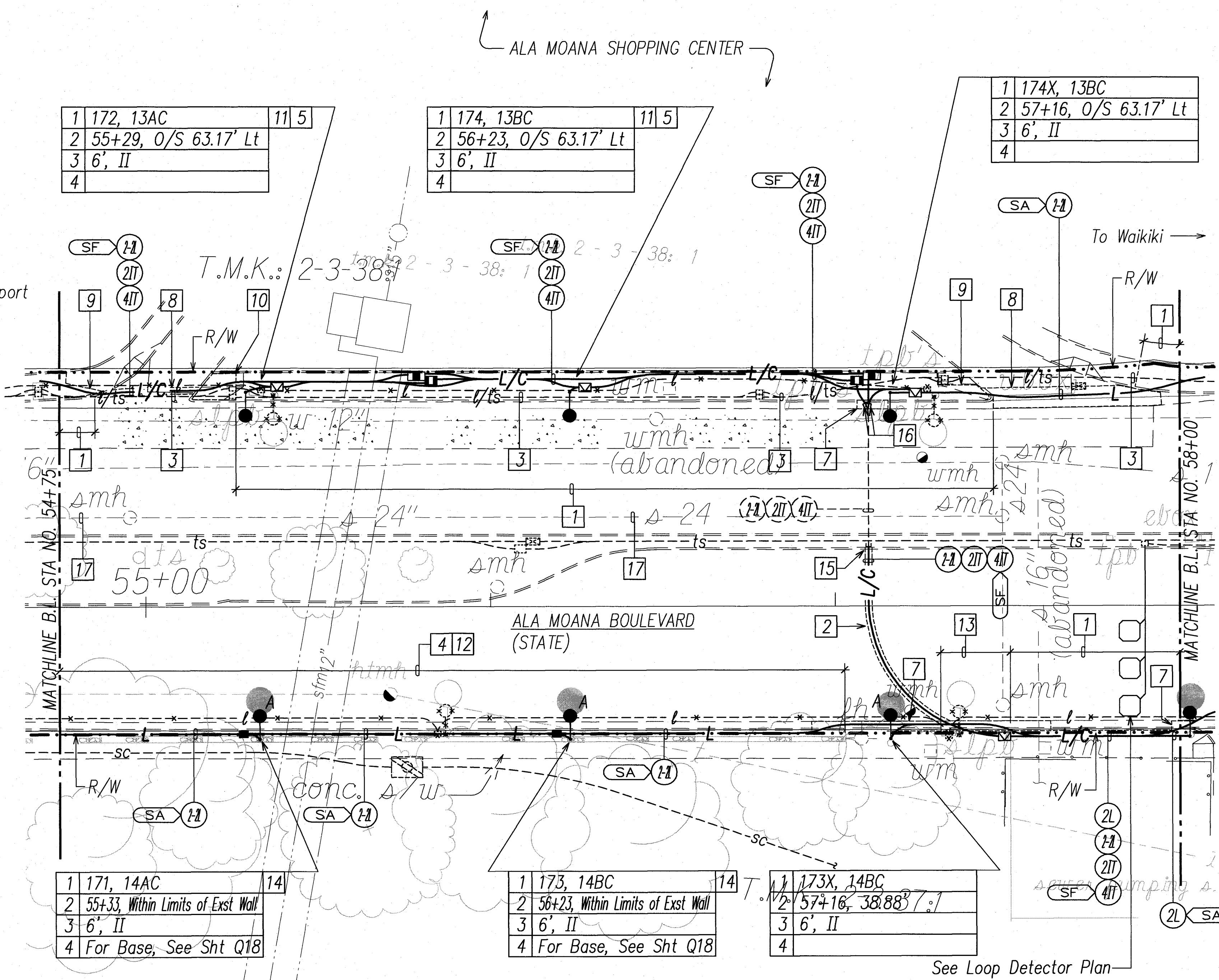
Notes:

- 1 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Full Width Sidewalk Prior to Excavation. Construct Full Width Conc Sidewalk.
- 2 Saw Cut Exst A.C. Pavement and Demolish Exst Pavement Prior to Trench Excavation. Repair Pavement Structure, See Sheet E-47.
- 3 Remove Exst Hwy Lt Wiring, Cap Exst Hwy Lt Conduit, and Abandon-In-Place.
- 4 Saw Cut Exst A.C. Median and Demolish Exst Median Prior to Trench Excavation. Repair A.C. Median.
- 5 Prior to Installing Hwy Lt Std, Provide Split Duct(s) for Exst Hwy Lt Wiring to Temporarily Relocate Exst Hwy Lt Conduit & Wiring.
- 6 Saw Cut Exst Conc Roadway at Construction Joint and Demolish Exst Pavement Prior to Trench Excavation. Repair Conc Roadway, See Sht E-47.
- 7 Saw Cut Exst Conc Curb and Gutter at Scorelines and Demolish Exst Curb and Gutter Prior to Trench Excavation. Construct Type 2DG Curb and Gutter.
- 8 Saw Cut Exst Conc Thru-Gutter at Construction Joint and Demolish Exst Thru-Gutter Prior to Trench Excavation. Repair Conc Thru-Gutter.
- 9 Saw Cut Exst Conc Curb Ramp Flare at Scorelines and Demolish Exst Flare Prior to Excavation. Construct Conc Curb Ramp Flare, See Roadway Plan.
- 10 Saw Cut Exst Conc Curb Ramp at Scorelines and Demolish Exst Curb Ramp Prior to Excavation. Construct Curb Ramp, See Roadway Plan.
- 11 Prior to Installing Hwy Lt Std, Provide Split Duct(s) with 3" Conc Encasement for Exst TS Wiring to Relocate Exst TS Conduit & Wiring.
- 12 Provide Temp Overhead Hwy Lt System in Median for South Side of Roadway Until New Hwy Ltg System is Operational. Repair Median to Match Exst Condition.
- 13 Saw Cut Exst Conc Sidewalk at Scorelines and Demolish Exst Sidewalk Prior to Excavation. Exst Grade Adjustment Wall to Remain. Repair Conc Sidewalk.
- 14 Carefully Demolish Exst CRM Wall as Required to Install Ductline and Hwy Lt Std. Reconstruct Wall Using Exst Rocks to Match Exst. See Sht 19 for Demolition and Reconstruction of Exst Wall.
- 15 Saw Cut Exst Conc Curb at Scorelines and Demolish Exst Curb Prior to Trench Excavation. Construct Type 2D Curb.
- 16 Expose Exst Conduit Stub-Out, Provide Coupling(s) and Extend Conduit(s).
- 17 "Ala Moana Blvd. Sewer Reconstruction"  
NTP: 01/11/2010, Completion: 10/07/2010



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. ("OBSERVATION OF CONSTRUCTION" SHALL BE AS DEFINED IN CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII, SUBCHAPTER 1, SECTION 16-115-2, DEFINITIONS, EFFECTIVE 06/29/94).

*Steven H. Sakai*  
LICENSED PROFESSIONAL ENGINEER  
HAWAII, U.S.A.



See Loop Detector Plan on Traffic Sheets for Replacement of Loop Detectors. See Pavement Marking & Signing Plan on Traffic Sheets for Stop Bar Location.



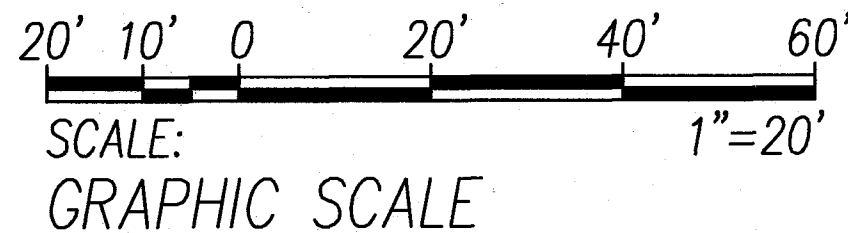
# HIGHWAY LIGHTING & TRAFFIC SIGNAL PARTIAL PLAN 29

SCALE: 1"=20'

T.M.K.: 2-3-38

APPROVED:

CHIEF, TRAFFIC REVIEW BRANCH, DPP DATE 2/2/10  
CHIEF, TRAFFIC SIGNALS AND TECHNOLOGY DIV. DATE 2/17/10  
CHIEF, WASTEWATER BRANCH, DPP DATE 1/5/10



|          |                     |
|----------|---------------------|
| 01/04/10 | Approval Signatures |
| DATE     | REVISION            |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

HIGHWAY LIGHTING & TRAFFIC SIGNAL  
PARTIAL PLAN 29  
NIMITZ HIGHWAY AND ALA MOANA BOULEVARD  
RESURFACING AND HIGHWAY LIGHTING REPLACEMENT  
FEDERAL AID PROJECT NO. NH-092-1(27)

Scale: AS NOTED Date: AUGUST 2009

SHEET No. E-38 OF 92 SHEETS

ADD. 123



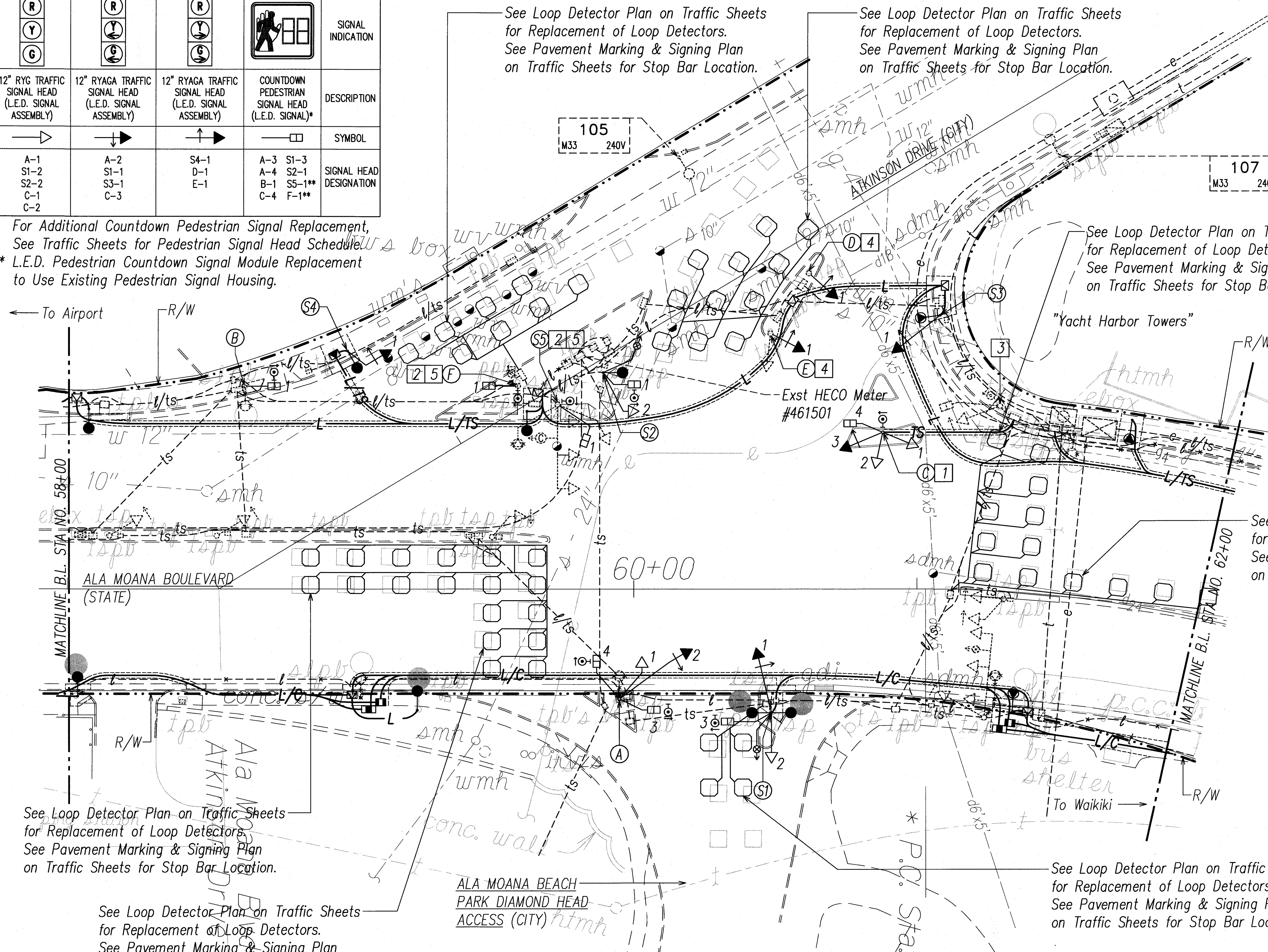
|   |   |   |  |                         |
|---|---|---|--|-------------------------|
|   |   |   |  | SIGNAL INDICATION       |
| 12" RYGA TRAFFIC SIGNAL HEAD (L.E.D. SIGNAL ASSEMBLY) | 12" RYGA TRAFFIC SIGNAL HEAD (L.E.D. SIGNAL ASSEMBLY) | 12" RYGA TRAFFIC SIGNAL HEAD (L.E.D. SIGNAL ASSEMBLY) | COUNTDOWN PEDESTRIAN SIGNAL HEAD (L.E.D. SIGNAL) | DESCRIPTION             |
|   |   |   |  | SYMBOL                  |
| A-1<br>S1-2<br>S2-2<br>C-1<br>C-2                     | A-2<br>S1-1<br>S3-1<br>C-3                            | S4-1<br>D-1<br>E-1                                    | A-3 S1-3<br>A-4 S2-1<br>B-1 S5-1**<br>C-4 F-1**  | SIGNAL HEAD DESIGNATION |

\* For Additional Countdown Pedestrian Signal Replacement, See Traffic Sheets for Pedestrian Signal Head Schedule.  
 \*\* L.E.D. Pedestrian Countdown Signal Module Replacement to Use Existing Pedestrian Signal Housing.

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(27)       | 2009        | ADD. 125  | 302          |

# Notes:

- Provide 10' Type 1 TS Std with Traffic Signal Equip Indicated. Provide 1-Type 2, 1-Type 3, and 3-Type 5 TS Cables. Provide Temp Traffic Signals Until New Traffic Signals are Operational. See This Sht for Signal Head Schedule.
- Replace Exst Pedestrian Signal with L.E.D. Pedestrian Countdown Signal Module. Provide Temp Traffic Signal Until New Traffic Signal is Operational. See This Sht for Signal Head Schedule.
- Remove Exst TS Std and Conc Base. Remove Exst TS Wiring, Cap Exst TS Conduit, and Abandon-In-Place. Provide Temp Traffic Signals Until New Traffic Signals are Operational.
- Replace Exst Traffic Signal Head with RYAGA Traffic Signal Head. Provide Temp Traffic Signal Until New Traffic Signal is Operational. See This Sht for Signal Head Schedule.
- Remove Exst Pedestrian Pushbutton(s) and Provide New Pedestrian Pushbutton As Shown.



See Loop Detector Plan on Traffic Sheets for Replacement of Loop Detectors.  
 See Pavement Marking & Signing Plan on Traffic Sheets for Stop Bar Location.

See Loop Detector Plan on Traffic Sheets for Replacement of Loop Detectors.  
 See Pavement Marking & Signing Plan on Traffic Sheets for Stop Bar Location.

General Note:  
 See Sht E-39 for Hwy Ltg and Additional Traffic Signal Work.

**TRAFFIC SIGNAL PARTIAL PLAN 30A**  
 SCALE: 1"=20'  
 T.M.K.: 2-3-36, 2-3-38

APPROVED:

*[Signature]*  
 CHIEF, WASTEWATER BRANCH, DPP

1/5/10  
 DATE

20' 10' 0 20' 40' 60'  
 SCALE:  
 GRAPHIC SCALE  
 1"=20'

01/04/10  
 DATE

Approval Signatures

REVISION

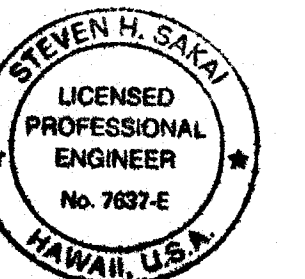
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**TRAFFIC SIGNAL**  
**PARTIAL PLAN 30A**  
 NIMITZ HIGHWAY AND ALA MOANA BOULEVARD  
 RESURFACING AND HIGHWAY LIGHTING REPLACEMENT  
 FEDERAL AID PROJECT NO. NH-092-1(27)

Scale: AS NOTED

Date: AUGUST 2009

SHEET No. E-40 OF 92 SHEETS

ADD. 125



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (COOPERATION OF CONSTRUCTION) SHALL BE AS DEFINED IN CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII, SUBCHAPTER 1, SECTION 15-115-2, DEFINITIONS, EFFECTIVE 08/29/04.

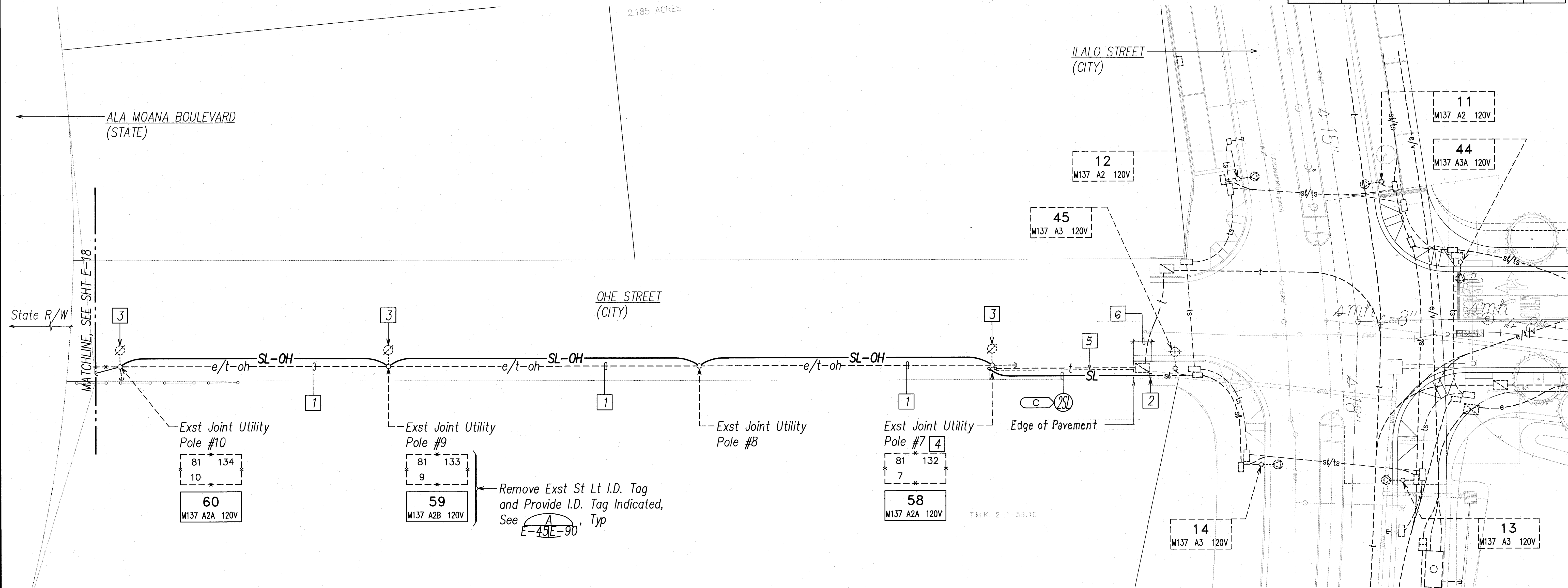
*[Signature]* 2/2/10  
 CHIEF, TRAFFIC REVIEW BRANCH, DPP  
*[Signature]* 2/17/10  
 CHIEF, TRAFFIC SIGNALS AND TECHNOLOGY DIV  
 DEPT. OF TRANSPORTATION SERVICES

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| DESIGNED BY       |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     |      |
| NOTE BOOK         |      |

LAST DATE: 12/10/09  
 15-2618 BY: M. J. P. 12/10/09  
 2-3-36-38 PROJECT: NH-092-1(27) ALA MOANA BEACH PARK DIAMOND HEAD ACCESS (CITY) T.M.K.: 2-3-36, 2-3-38



| FED. ROAD<br>DIST. NO. | STATE | FED. AID<br>PROJ. NO. | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
|------------------------|-------|-----------------------|----------------|--------------|-----------------|
| HAWAII                 | HAW.  | NH-092-1(27)          | 2009           | ADD. 130     | 302             |



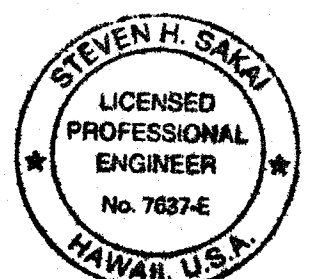
Notes:

- 1 HECO to Remove Exst HECO Secondary Cables.
- 2 Expose Exst Conduit Stub-Out, Provide Coupling(s) and Extend Exst Conduit(s).
- 3 Exst 100W St Lt Luminaire and Bracket Arm. Connect to St Lt Overhead Cable, See Det A/E-91.
- 4 2" C Riser with Weatherhead. Strap to Exst Utility Pole with Two Hole Straps Spaced at Max 4'-0" O.C.
- 5 Sawcut Exst A.C. Pavement and Demolish Exst Pavement Prior to Trench Excavation. Repair Pavement per C&C Stds.

APPROVED:

*J. Wayne Calanna* 11/5/10  
CHIEF, WASTEWATER BRANCH, DPP *W* DATE

CHIEF, ELECTRICAL/MECHANICAL DIV<sup>2</sup>  
DEPT OF DESIGN AND CONSTRUCTION  
CITY & COUNTY OF HONOLULU  
(FOR STREET LIGHT WORK ONLY)



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. ("OBSERVATION OF CONSTRUCTION" SHALL BE AS DEFINED IN CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII, SUBCHAPTER 1, SECTION 16-115-2, DEFINITIONS, EFFECTIVE 08/29/94).

Steven Hala  
LICENSE EXPIRES 4-30-10

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

STREET LIGHTING & TRAFFIC SIGNAL  
PARTIAL PLAN 43

NIMITZ HIGHWAY AND ALA MOANA BOULEVARD  
RESURFACING AND HIGHWAY LIGHTING REPLACEMENT  
FEDERAL AID PROJECT NO. NH-092-1(27)

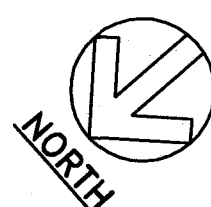
Scale: AS NOTED Date: AUGUST 2009

**SHEET No. E-45 OF 92 SHEETS**

**ADD. 130**

|                  |                                    |
|------------------|------------------------------------|
| ORIGINAL<br>PLAN | SURVEY PLOTTED BY _____ DATE _____ |
| NOTE BOOK        | DRAWN BY _____                     |
|                  | TRACED BY _____                    |
|                  | DESIGNED BY _____                  |
|                  | QUANTITIES BY _____                |
| No. _____        | CHECKED BY _____                   |

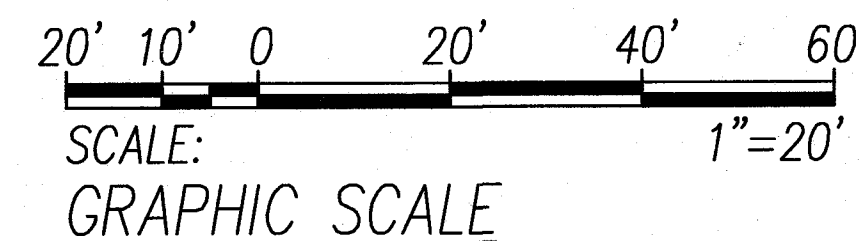
LAST SAVE: 12/18/09 @ 15:25:38 BY: AN PLOT SC 1=20



**STREET LIGHTING & TRAFFIC SIGNAL PARTIAL PLAN 43**

SCALE: 1"=20'

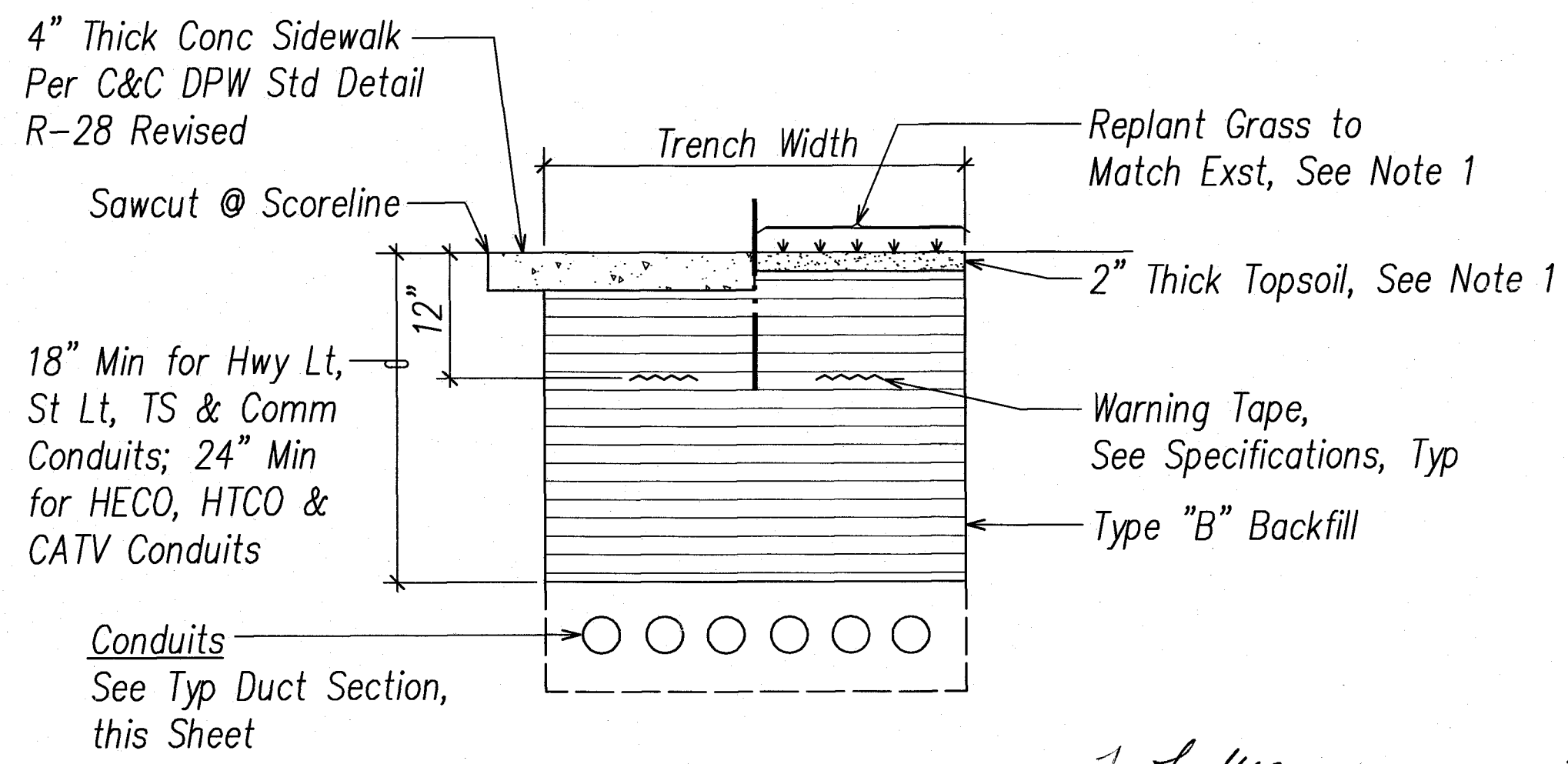
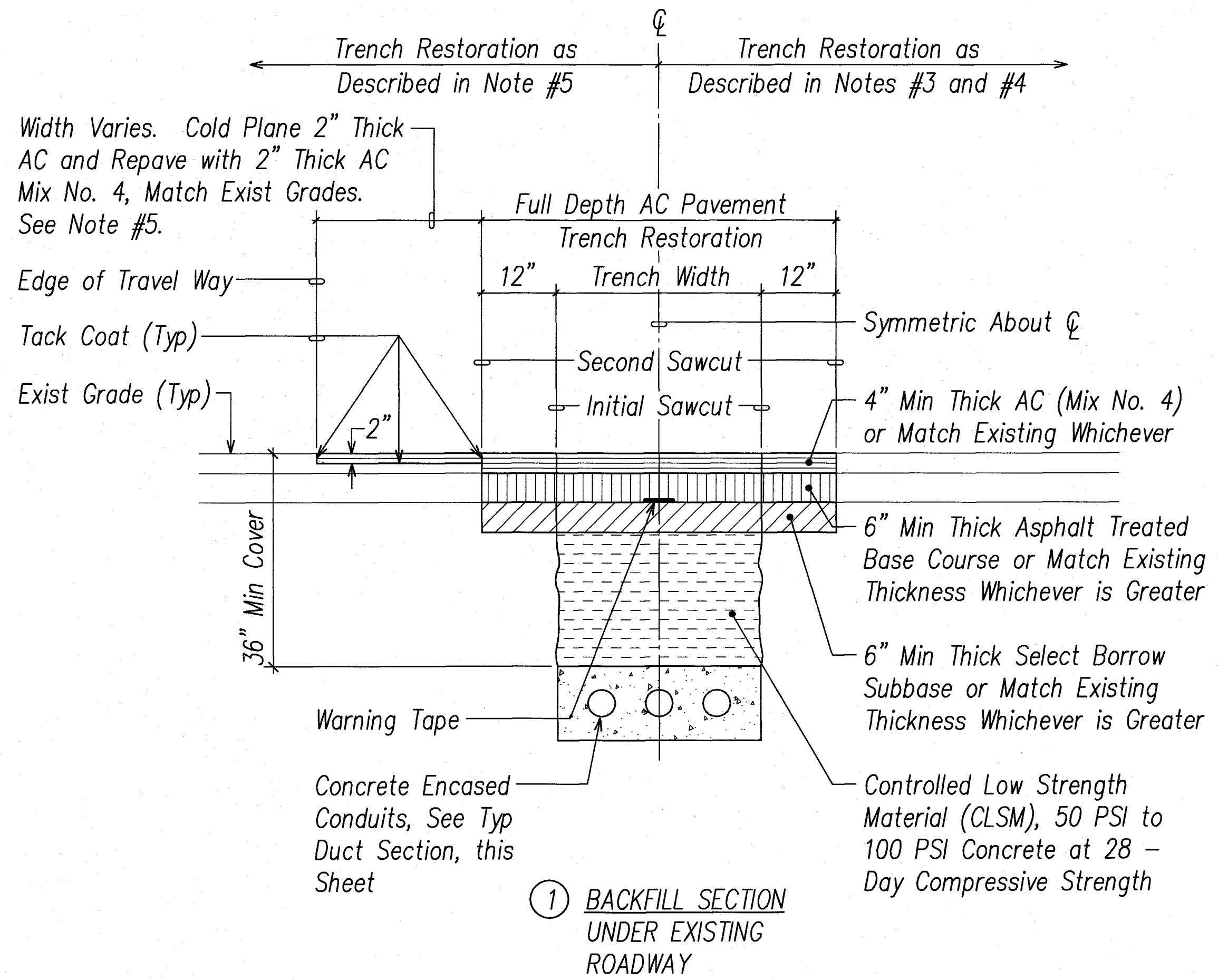
T.M.K.: 2-1-55, 2-1-56, 2-1-59



|          |                     |
|----------|---------------------|
| 01/04/10 | Approval Signatures |
| DATE     | REVISION            |



| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(27)       | 2009        | ADD. 171  | 302          |



### TRENCH RESTORATION NOTES:

1. Sawcutting & Repairing of Exst A.C. and Concrete Pavements, Replanting Grass, and Providing Topsoil will not be Paid for Separately, but Considered Incidental to the Various Contract items.
2. Pavement Structure shall be Equal or Better Than Existing Pavement in Thickness and Quality.
3. Conditions Where Trench Runs Perpendicular or Skew to the Travel Way Direction and/or Longitudinal Trenches Less Than Ten Feet in Length shall be Repaved A Minimum of Four Feet Wide with Trench Centered Within the Paved Width (T-Section) or the Paved Area shall be the Trench Width Plus an Additional One Foot on Each Side of the Trench (T-Section), Whichever is Greater. The Length of the Repaved Trench shall be Repaved A Recommended Two Feet in Added Length to Each End of the Trench.
4. Trenches Running Longitudinally to the Travel Way on Roadways Where the Paved Travel Way is 36 Feet or Less shall be Repaved to the Trench Width Plus an Additional One Foot on Each Side of the Trench (T-Section) with a Recommended Two Feet in Added Length to Each End of the Longitudinal Trench. The Replaced Pavement shall have a Minimum Thickness of Four Inches of Asphalt Concrete or Match the Existing Pavement Thickness, Whichever is Greater.
5. Trenches Running Longitudinally to the Travel Way on Roadways Where the Paved Travel Way is Greater Than 36 Feet shall be Cold Planned a Minimum of Two Inches and Repaved to the Original Grade. The Paving shall be a Minimum Width of One Lane Not Exceeding 15 Feet in Width with a Minimum of Two Feet in Added Length to Each End of the Longitudinal Trench. The Replacement Pavement Within the Trench Limits, Plus an Additional One Foot on Each Side of the Trench (T-Section), shall have a Minimum Thickness of Four Inches of Asphalt Concrete or Match the Existing Pavement Thickness, Whichever is Greater.
6. Pavement Markings  
Restore Pavement Strippings, Raised Pavement Markers and Pavement Markings Whether Shown or Not on the Plans Within the Repaved Areas as Defined Above.

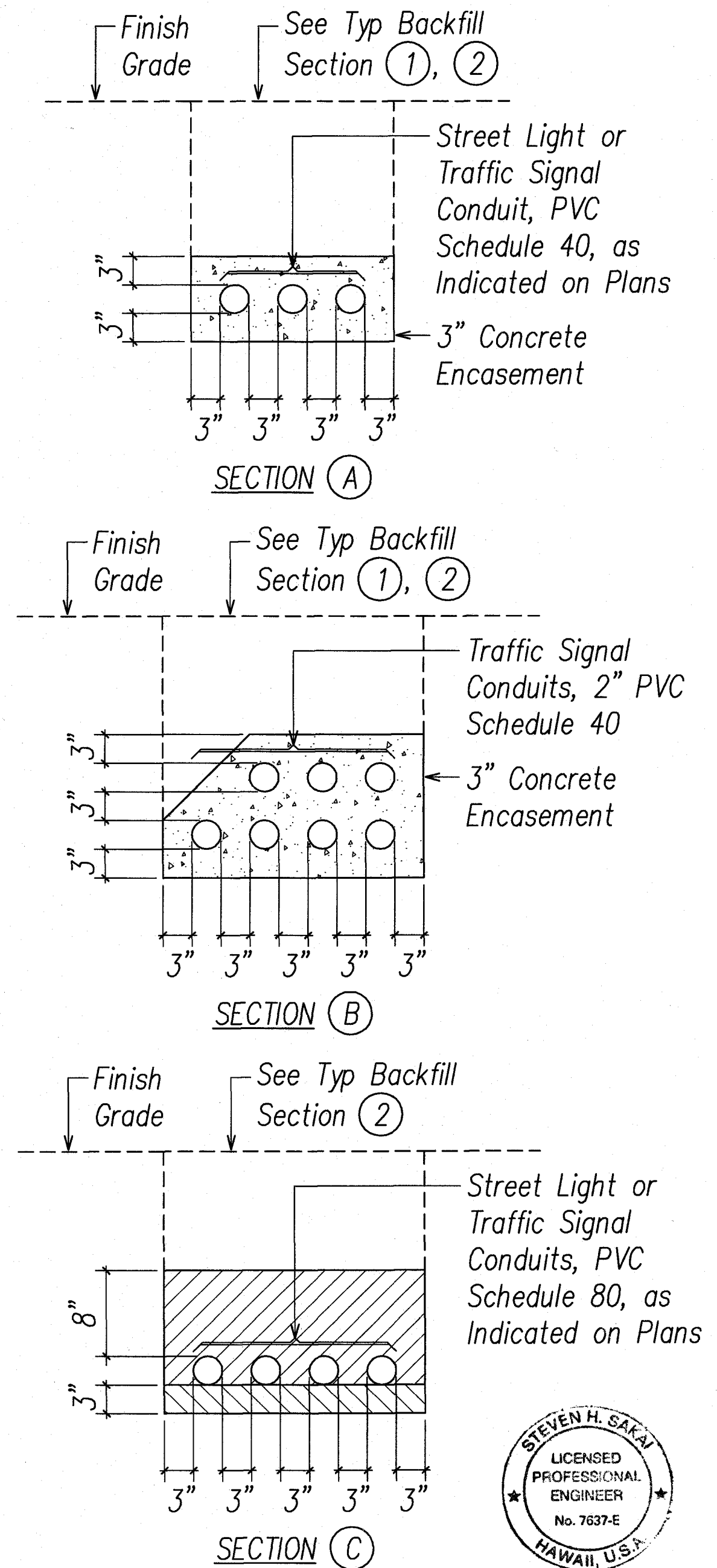
For Lane and Edge Strippings Restoration, Extend 12" From the Limit of Work.

Contractor to Match Width (Whichever is Greater) and Color of Striping, Type of Raised Pavement Markers, Pavement Words, and Pavement Directional Arrow.

Restoration of Pavement Markings will not be Paid for Separately, but Considered Incidental to the Various Contract Items.

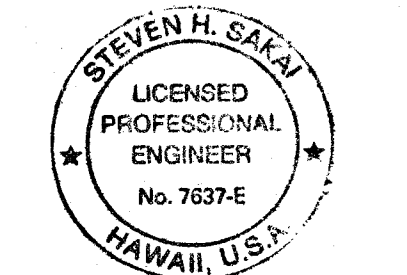
### CITY RIGHT-OF-WAY BACKFILL NOTES:

- Type "A" Backfill - Earth & Gravel. Rock Size to be 1" Max & the Mixture to Contain Not More Than 50% by Volume of Rock Particles. The Material shall be Nonexpansive. 95% Compaction.
- Type "B" Backfill - Earth & Gravel. Mixture Must Pass A 1/2" Mesh Screen & Contain Not More Than 20% by Volume of Rock Particles. 95% Compaction.
- Note - If Normal Material at Bottom of Trench is Not Type "B", an Additional 3" shall be Excavated & Type "B" Backfill Provided.
- Concrete - 3" Encasement, 2500 PSI Compressive Strength @ 28 Days.



### TYPICAL DUCT SECTIONS (CITY)

NOT TO SCALE



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. ("OBSERVATION OF CONSTRUCTION" SHALL BE AS DEFINED IN CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII, SUBCHAPTER 1, SECTION 15-15-2, DEFINITIONS, EFFECTIVE 08/29/04).

BY: *Steven H. Sakai*  
LICENSE EXPIRES: 4-30-10

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**TYPICAL BACKFILL & DUCT SECTIONS (CITY)**  
NIMITZ HIGHWAY AND ALA MOANA BOULEVARD  
RESURFACING AND HIGHWAY LIGHTING REPLACEMENT  
FEDERAL AID PROJECT NO. NH-092-1(27)

Scale: AS NOTED Date: AUGUST 2009  
SHEET No. E-86 OF 92 SHEETS

|                   |  |
|-------------------|--|
| DATE              |  |
| SURVEY PLOTTED BY |  |
| DRAWN BY          |  |
| CHECKED BY        |  |
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| NO. 99            |  |
| NO. 100           |  |

### General Note:

Contractor Shall Comply with "ENGINEERING AND POLICY MEMORANDUM NO. CEB-1-09", Dated April 6, 2009, Regarding the Subject, "Jointing Requirements For Concrete Sidewalks and Driveways".

### TYPICAL BACKFILL SECTIONS (CITY)

NOT TO SCALE

### APPROVED:

*S. S. S.* 1/14/2010  
CHIEF, MECHANICAL/ELECTRICAL DIV  
DEPT. OF DESIGN AND CONSTRUCTION  
CITY & COUNTY OF HONOLULU  
(FOR STREET LIGHT WORK ONLY)

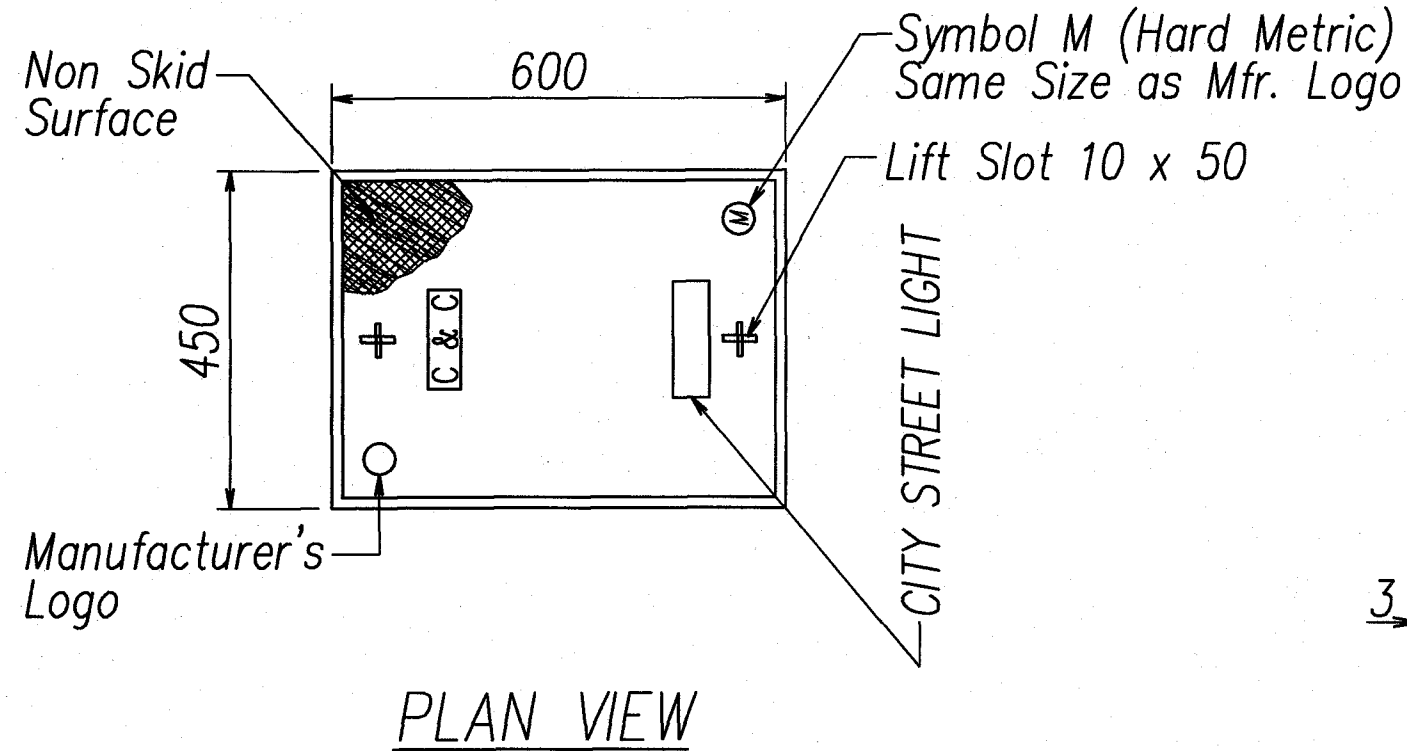
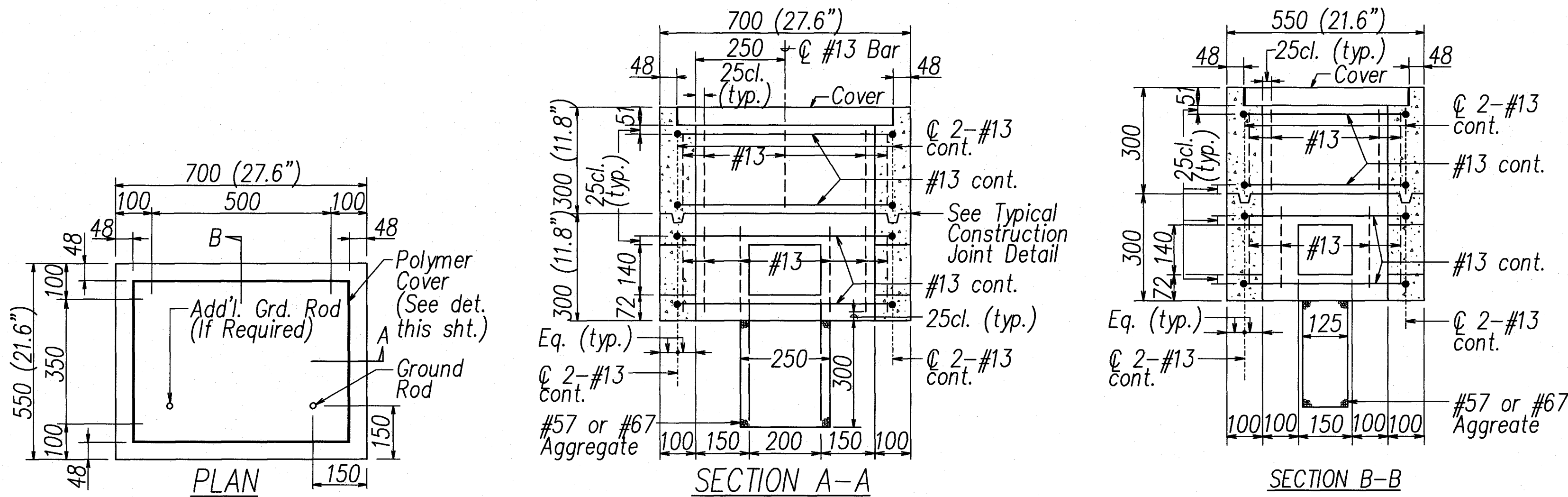
*M. J. J.* 1/29/10  
CHIEF, CIVIL ENGINEERING BRANCH, DPP  
(FOR WORK WITHIN CITY R/W ONLY)

*H. H. H.* 2/22/10  
CHIEF, TRAFFIC REVIEW BRANCH, DPP  
(FOR WORK WITHIN CITY R/W ONLY)

|          |   |
|----------|---|
| 01/04/10 | Approval Signatures, Revised Typ Backfill Sec, Added Gen Note |
| DATE     | REVISION  |

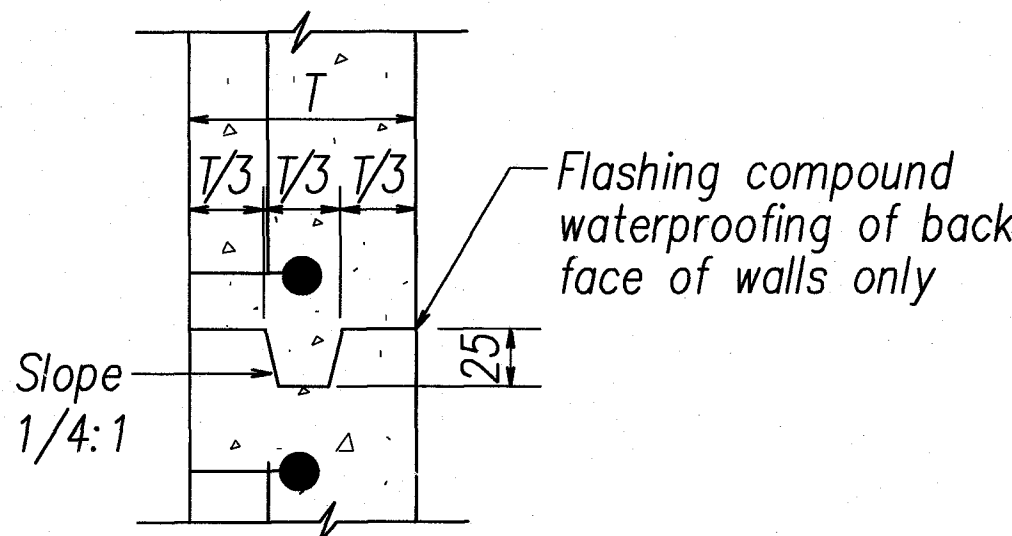


| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(27)       | 2009        | ADD. 177  | 302          |

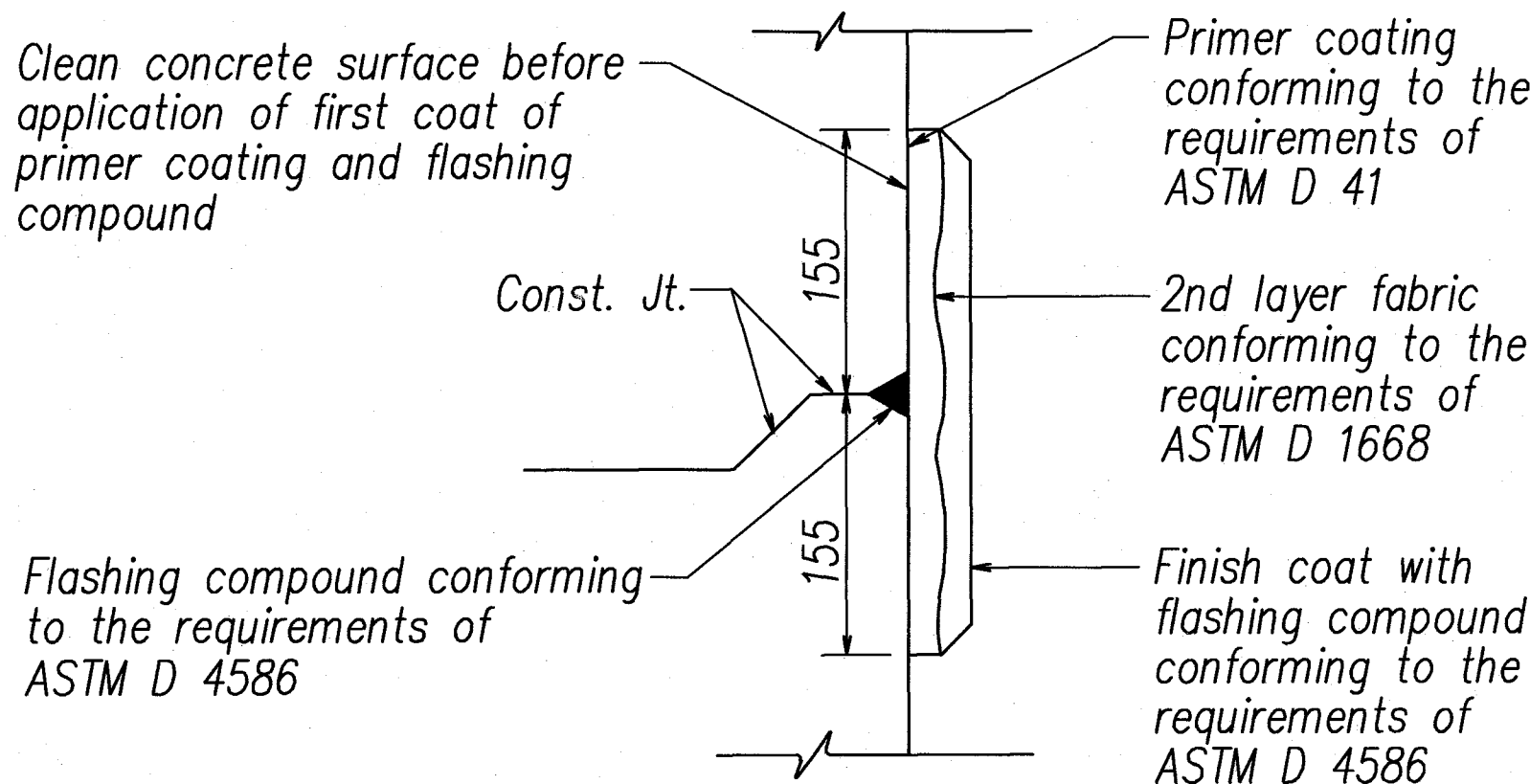


**POLYMER CONCRETE COVER**  
E-92/E-92 NOT TO SCALE

**TYPE "A" PULLBOX (Old Type "B")**  
E-92/E-92 NOT TO SCALE

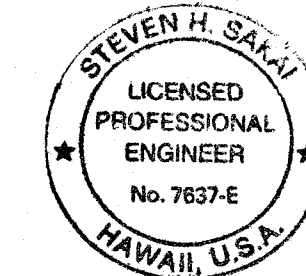


**TYPICAL CONSTRUCTION JOINT DETAIL**  
E-92/E-92 NOT TO SCALE



**TYPICAL FLASHING COMPOUND WATERPROOFING DETAILS**  
E-92/E-92 NOT TO SCALE

CHIEF, TRAFFIC REVIEW BRANCH, DPP  
(FOR WORK WITHIN CITY R/W ONLY)  
DATE



APPROVED:  
CHIEF, MECHANICAL/ELECTRICAL DIV  
DEPT. OF DESIGN AND CONSTRUCTION  
CITY & COUNTY OF HONOLULU  
(FOR STREET LIGHT WORK ONLY)  
DATE

### GENERAL NOTES

- Provide a minimum of one 16 dia. x 2.5m Copperweld Ground Rod in each pullbox. When directed by the Engineer, install additional Ground Rods. Cost of Ground Rods shall be incidental to the pullboxes.
- All pre-cast concrete pullboxes shall be manufactured in two pieces.
- The pullbox with cover shall be capable of supporting an MS 18 Loading.
- The maximum weight of the pullbox cover shall not exceed 27 kilograms.
- The openings for the conduits on all pullboxes shall be pre-cast concrete knockouts.
- After installing the conduits in the openings of the pullboxes, the Contractor shall fill the excess opening in the pre-cast knockouts with concrete mortar.
- Prior to installing the pullboxes, the Contractor shall level the bottom of the trench and achieve a minimum of 95% relative compaction of the bottom of the trench.
- All concrete shall be Class A (25MPa, min.)
- Rebars shall be Grade 300 and all lapped splices shall be 360mm minimum.
- The #57 or #67 size aggregate shall conform to latest version of AASHTO M43 (ASTM D 448).

All Dimensions are in Millimeters  
unless otherwise shown

|          |   |
|----------|---|
| 01/04/10 | Revised C&C St Lt Pb Det, Approval Signatures |
| DATE     | REVISION                                      |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**MISCELLANEOUS DETAILS (CITY)**

NIMITZ HIGHWAY AND ALA MOANA BOULEVARD  
RESURFACING AND HIGHWAY LIGHTING REPLACEMENT  
FEDERAL AID PROJECT NO. NH-092-1(27)

Scale: AS NOTED  
Date: AUGUST 2009  
SHEET No. E-92 OF 92 SHEETS

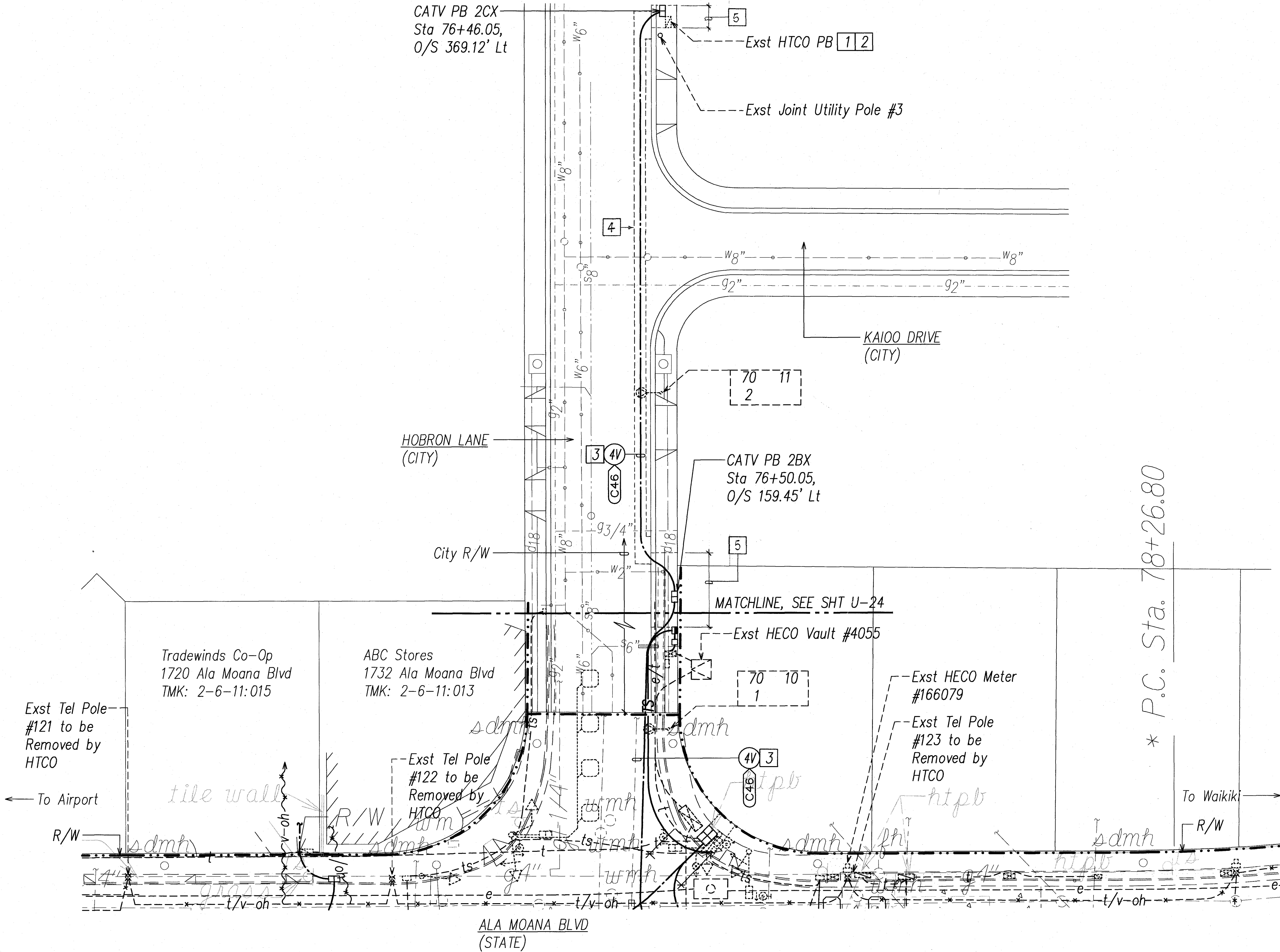
ADD. 177



| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-11271       | 2009        | ADD. 208  | 302          |

Notes:

- 1 Penetrate Exst Pullbox to Terminate Conduit(s). Repair to Match Exst. Coordinate Work with HTCO Inspector.
- 2 Provide CATV 4"C Between HTCO PB and CATV PB 2CX.
- 3 See CATV Ductline Profile CP, Sht UP-38.
- 4 Sawcut Exst A.C. Pavement and Demolish Exst Pavement Prior to Trench Excavation. Repair Pavement, See Sht. E-86.
- 5 Sawcut Exst Conc Sidewalk, Curb and Gutter at Scorelines and Demolish Exst Sidewalk, Curb and Gutter Prior to Excavation. Repair Sidewalk, Curb and Gutter per C&C Stds.



[Signature]  
 CHIEF, TRAFFIC REVIEW BRANCH, DPP  
 (FOR WORK WITHIN CITY R/W ONLY) 2/22/10 DATE

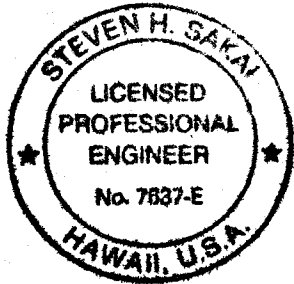
[Signature]  
 CHIEF, CIVIL ENGINEERING BRANCH, DPP  
 (FOR WORK WITHIN CITY R/W ONLY) 1/29/10 DATE

APPROVED:

[Signature]  
 CHIEF, WASTEWATER BRANCH, DPP 1/5/10 DATE

[Signature]  
 HAWAIIAN TELCOM 1-4-10 DATE

[Signature]  
 OCEANIC TIME WARNER CABLE 01-04-10 DATE

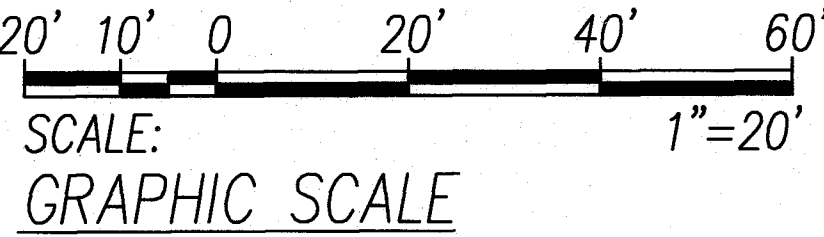


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF "CONSTRUCTION" SHALL BE AS DEFINED IN CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII, SUBCHAPTER 1, SECTION 115-2, DEFINITIONS, EFFECTIVE 08/29/94).

[Signature]  
 LICENSE EXPIRES: 4-30-10

General Note: See Sht U-37 for A.C. Pavement Restoration Limits.

**ELECTRICAL DISTRIBUTION PARTIAL PLAN 44**  
 SCALE: 1"=20'  
 T.M.K.: 2-6-011



|          |                     |
|----------|---------------------|
| 01/04/10 | Approval Signatures |
| DATE     | REVISION            |

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

ELECTRICAL DISTRIBUTION

PARTIAL PLAN 44

NIMITZ HIGHWAY AND ALA MOANA BOULEVARD

RESURFACING AND HIGHWAY LIGHTING REPLACEMENT

FEDERAL AID PROJECT NO. NH-092-1(27)

Scale: AS NOTED

Date: AUGUST 2009

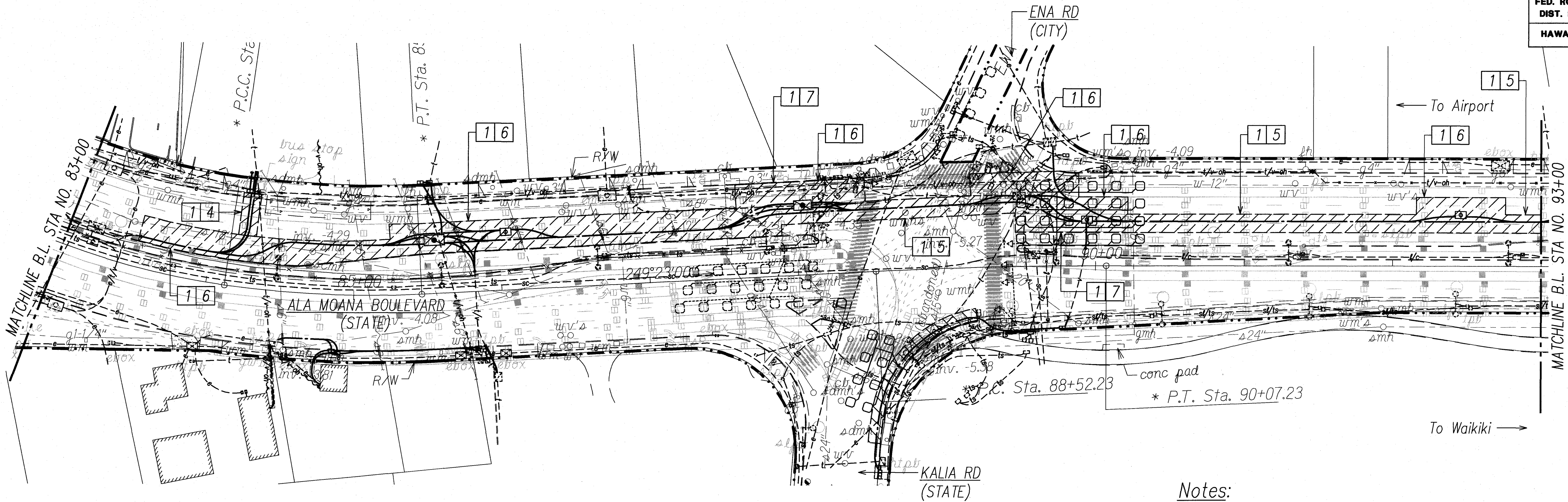
SHEET No. U-31 OF 67 SHEETS



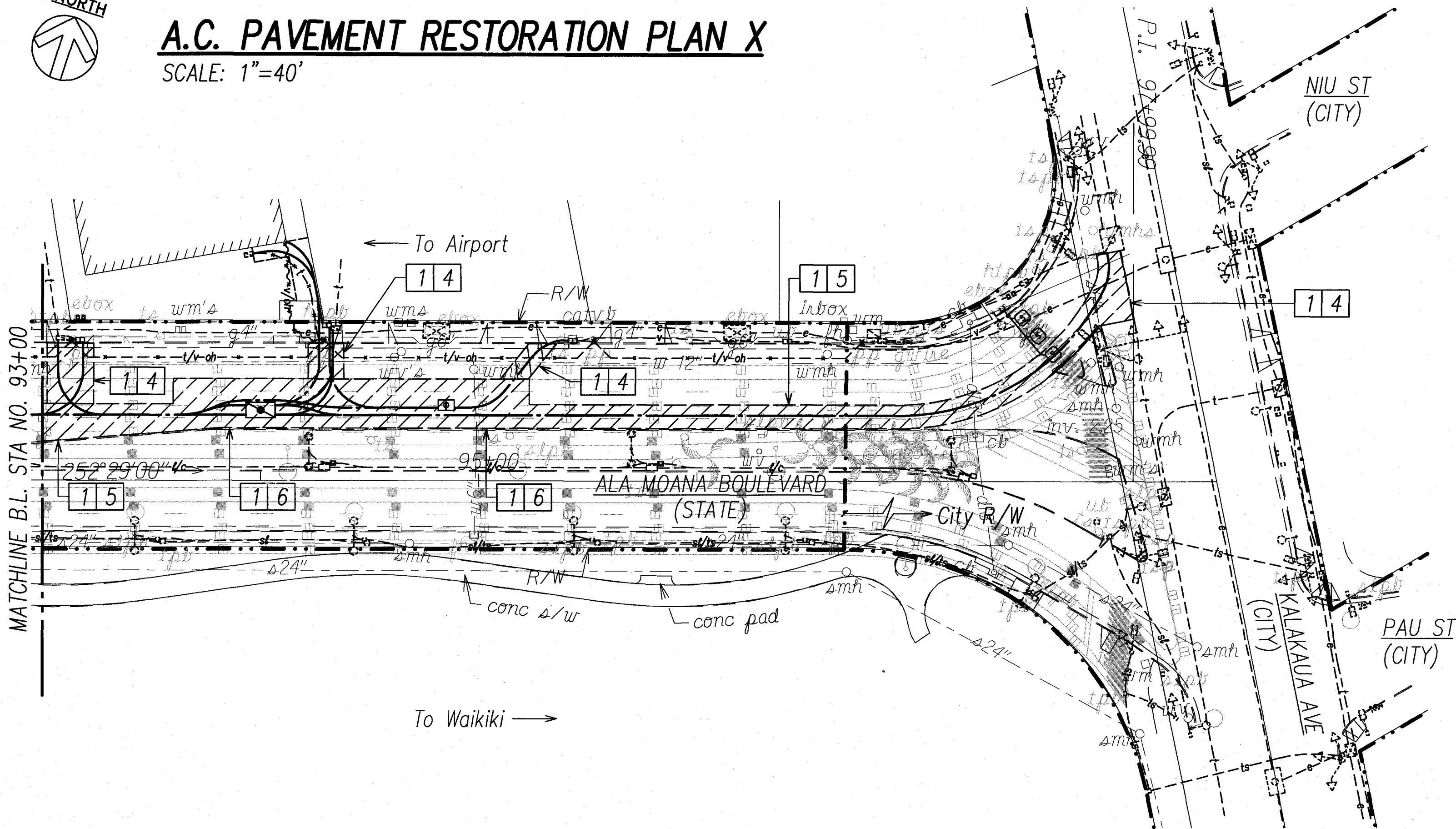
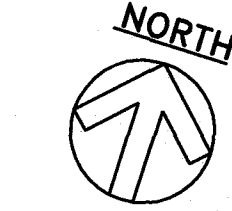




| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(27)       | 2009        | ADD. 214  | 302          |



**A.C. PAVEMENT RESTORATION PLAN X**  
SCALE: 1"=40'



**A.C. PAVEMENT RESTORATION PLAN XI**  
SCALE: 1"=40'



Notes:

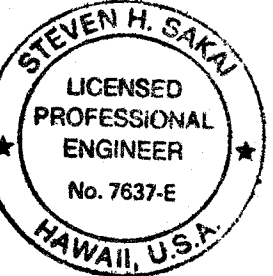
- Replacement of Striping, Lane Markers and Reflectors is Incidental to the Pavement Restoration.
- Not Used.
- Not Used.
- Cold Plane Exst A.C. Pavement 3" Min Depth for 6'-0" on Both Sides of Trench Centerline. Restore Pavement.
- Cold Plane Exst A.C. Pavement 3" Min Depth for Entire Lane Width. Restore Pavement
- Cold Plane Exst A.C. Pavement 3" Min Depth for 2-Lane Width. Restore Pavement.
- Cold Plane Exst A.C. Pavement 3" Min Depth Curb to Curb. Restore Pavement.

CHIEF, TRAFFIC REVIEW BRANCH, DPP  
(FOR WORK WITHIN CITY R/W ONLY)

APPROVED:

CHIEF, CIVIL ENGINEERING BRANCH, DPP

|          |   |
|----------|---|
| 01/04/10 | Approval Signatures, Revised Repavement |
| DATE     | REVISION                                |



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION ("OBSERVATION OF CONSTRUCTION" SHALL BE AS DEFINED IN CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII, SUBCHAPTER 1, SECTION 16-115-2, DEFINITIONS, EFFECTIVE 08/29/94).

DATE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**A.C. PAVEMENT RESTORATION**  
**PARTIAL PLANS X, XI**  
NIMITZ HIGHWAY AND ALA MOANA BOULEVARD  
RESURFACING AND HIGHWAY LIGHTING REPLACEMENT  
FEDERAL AID PROJECT NO. NH-092-1(27)

Scale: AS NOTED  
SHEET No. U-37 OF 67 SHEETS

DATE: AUGUST 2009