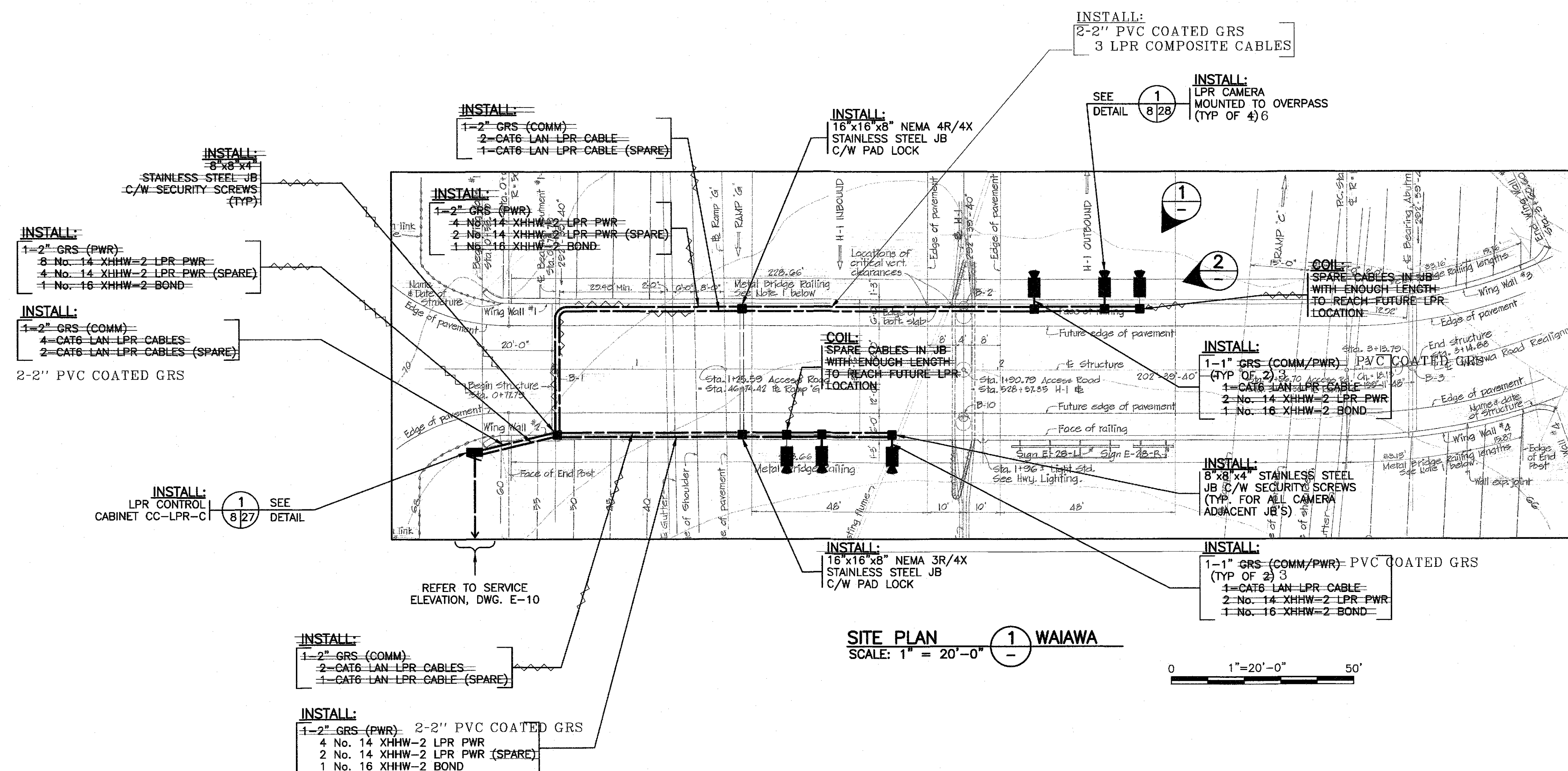
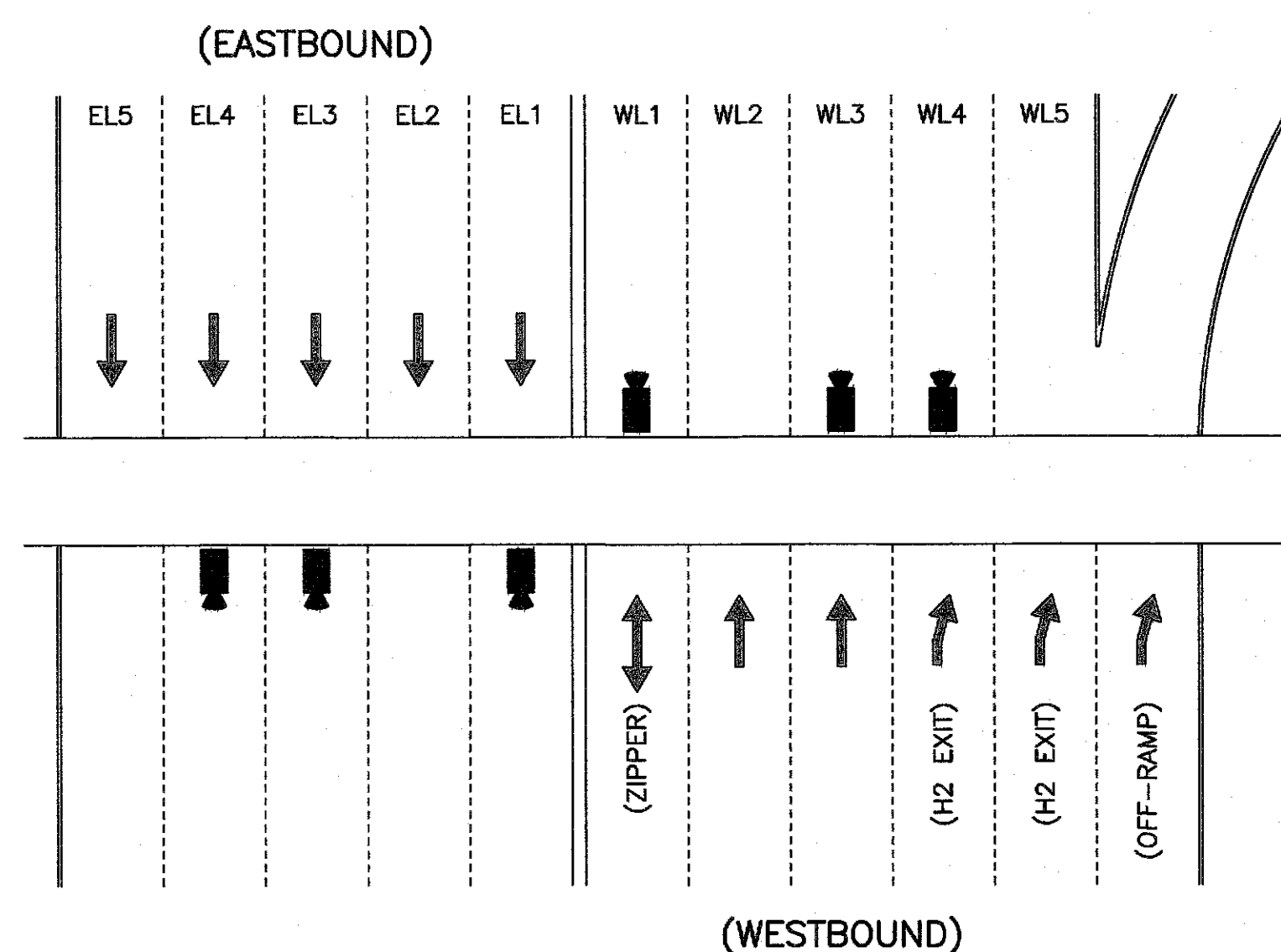


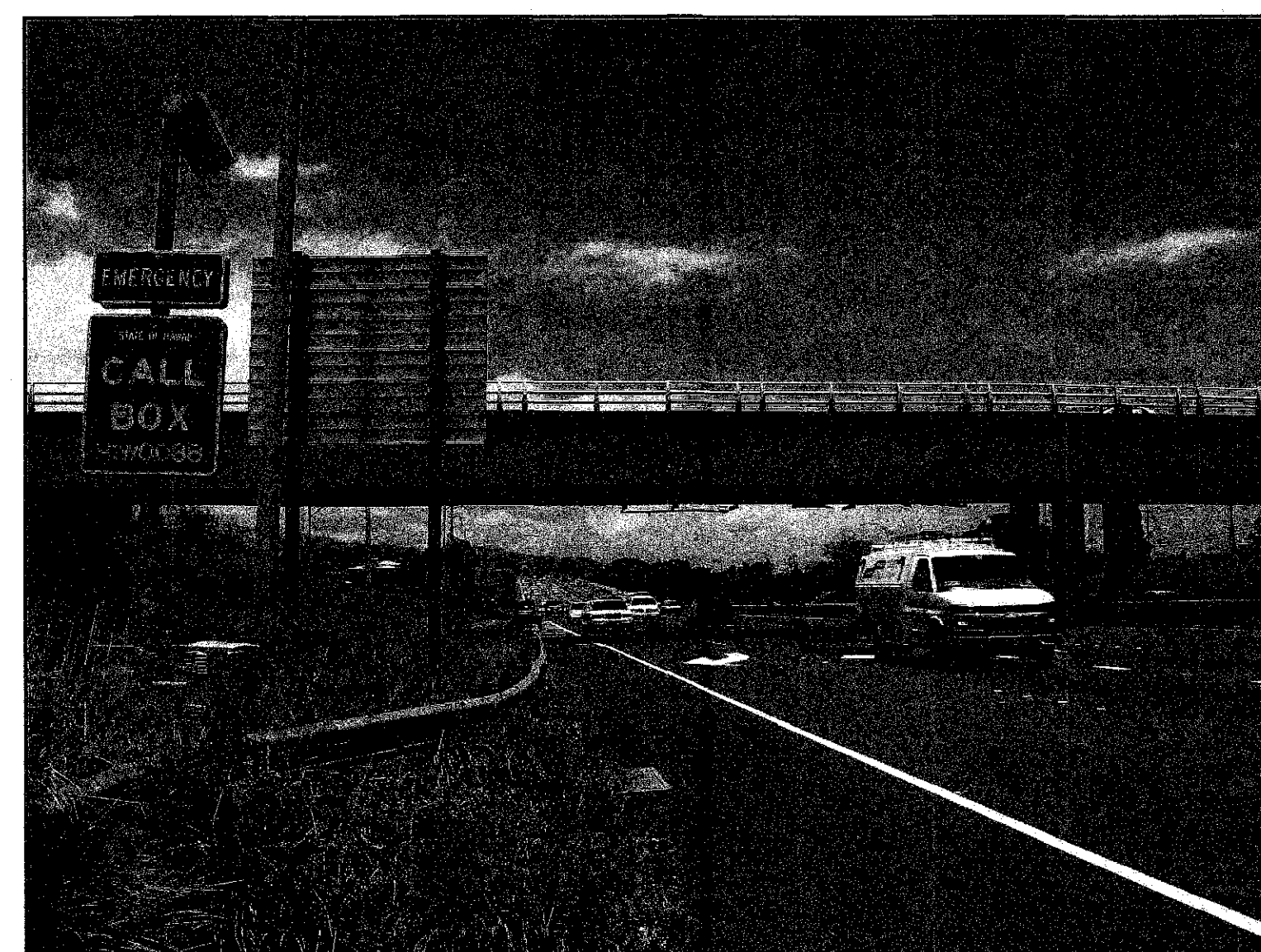
| FED. ROAD<br>DIST. NO. | STATE | FEDERAL AID<br>PROJ. NO. | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
|------------------------|-------|--------------------------|----------------|--------------|-----------------|
| HAWAII                 | HAW.  | IM-0300(115)             | 2009           | 14           | 36              |



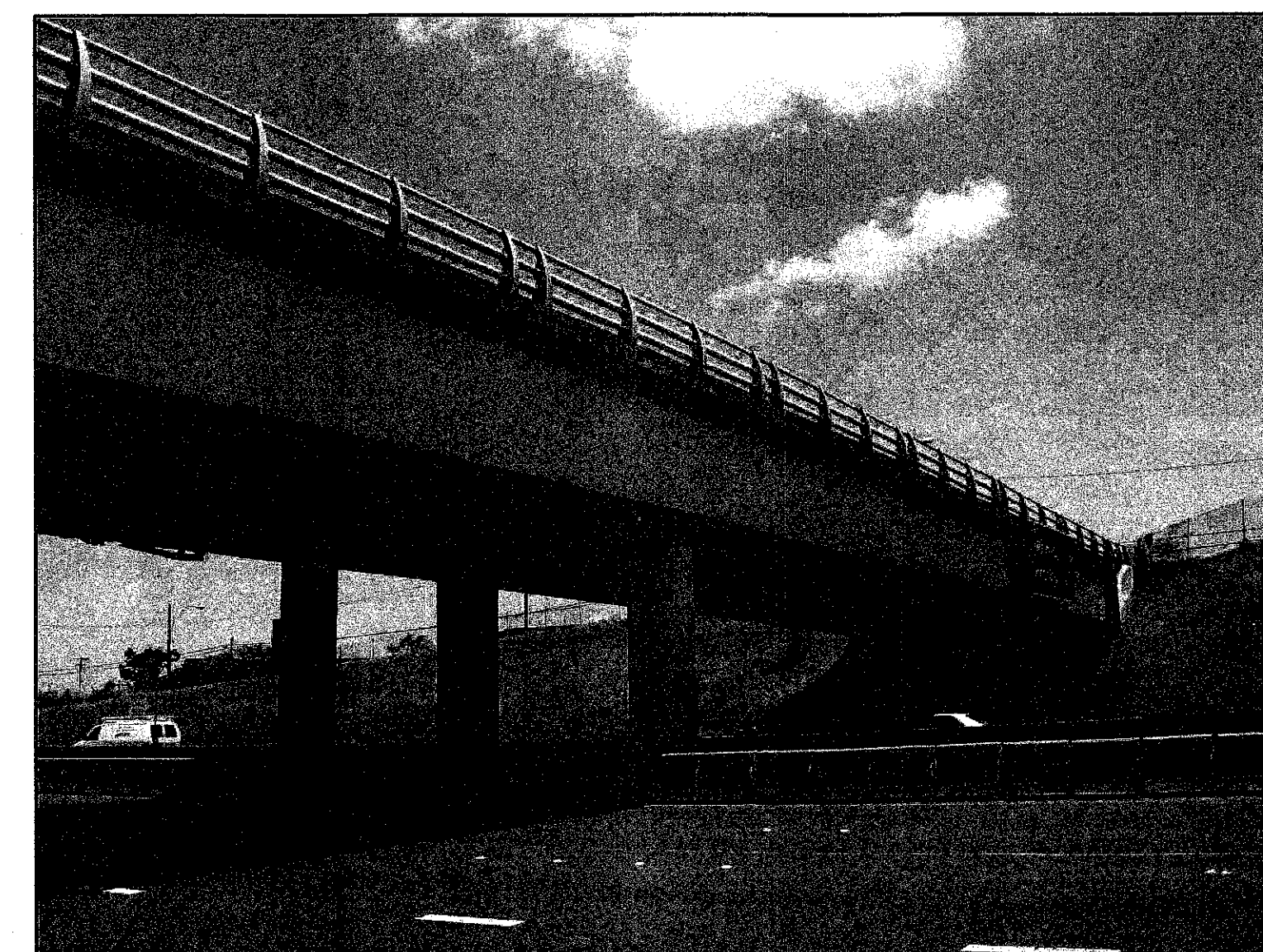
LEGEND FOR AS-BUILT POSTINGS  
 ~~~~~ Squiggly line for as-built deletion  
 100,000= Double line for as-built deletion  
 RoadwayText for as-built posting



WAIAWA LANE LAYOUT  
N.T.S.



PICTURE 1 WESTBOUND TRAFFIC  
N.T.S. -



PICTURE 2 OVERPASS  
N.T.S. -

- NOTES:**
1. SITE DETAILS FROM Hdot DRAWING I-HI-1(48)9-057.
  2. SCALE IS APPROXIMATE ONLY.
  3. CAMERAS TO BE CENTERED OVER LANES AS SHOWN IN THE LANE LAYOUT.
  4. 2" CONDUIT ABOVE GRADE SHALL BE SUPPORTED BY GALVANIZED UNISTRUT C/W P-CLAMPS SPACED EVERY 4'-0".
  5. NEC APPROVED EXPANSION FITTINGS OR FLEXIBLE CONDUIT SHALL BE USED TO SPAN OVERPASS EXPANSION JOINTS.
  6. JUNCTION BOXES ABOVE GRADE SHALL BE SUPPORTED BY UNISTRUT.

ALL EQUIPMENT IS EXISTING  
UNLESS NOTED OTHERWISE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

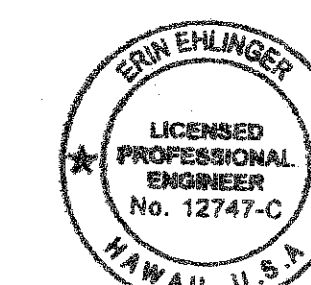
SITE PLAN  
NODE C - WAIAWA

FREEWAY MANAGEMENT SYSTEM PHASE 1B  
TRAVELER INFORMATION SYSTEM, UNIT 3  
ITS EQUIPMENT INSTALLATION

F.A.P. NO. IM-0300(115)

SCALE: 1"=20'-0"      DATE: DEC 2008

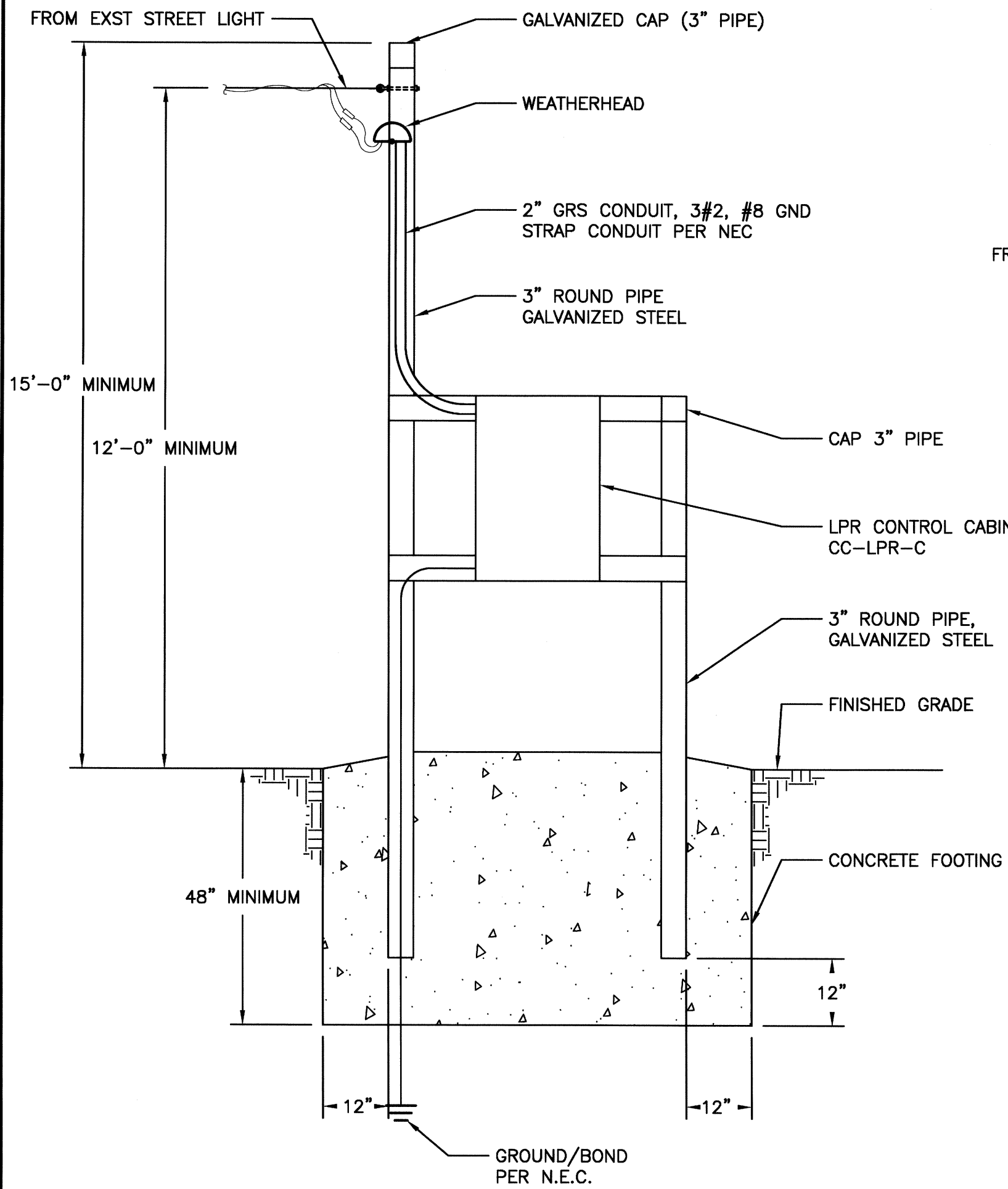
**SHEET No. E-08 OF 36 SHEETS**



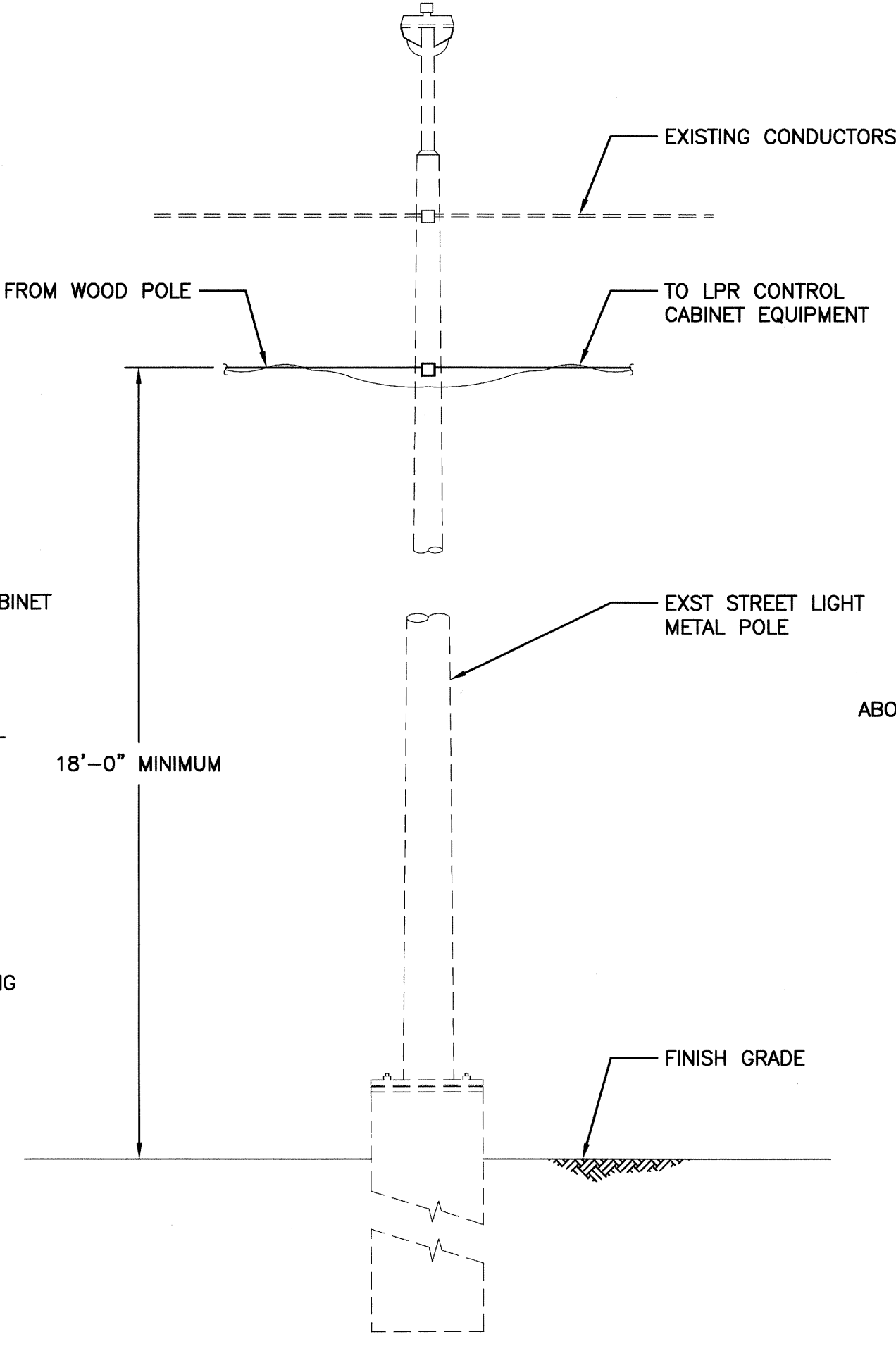
Erin Ehlinger  
THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION



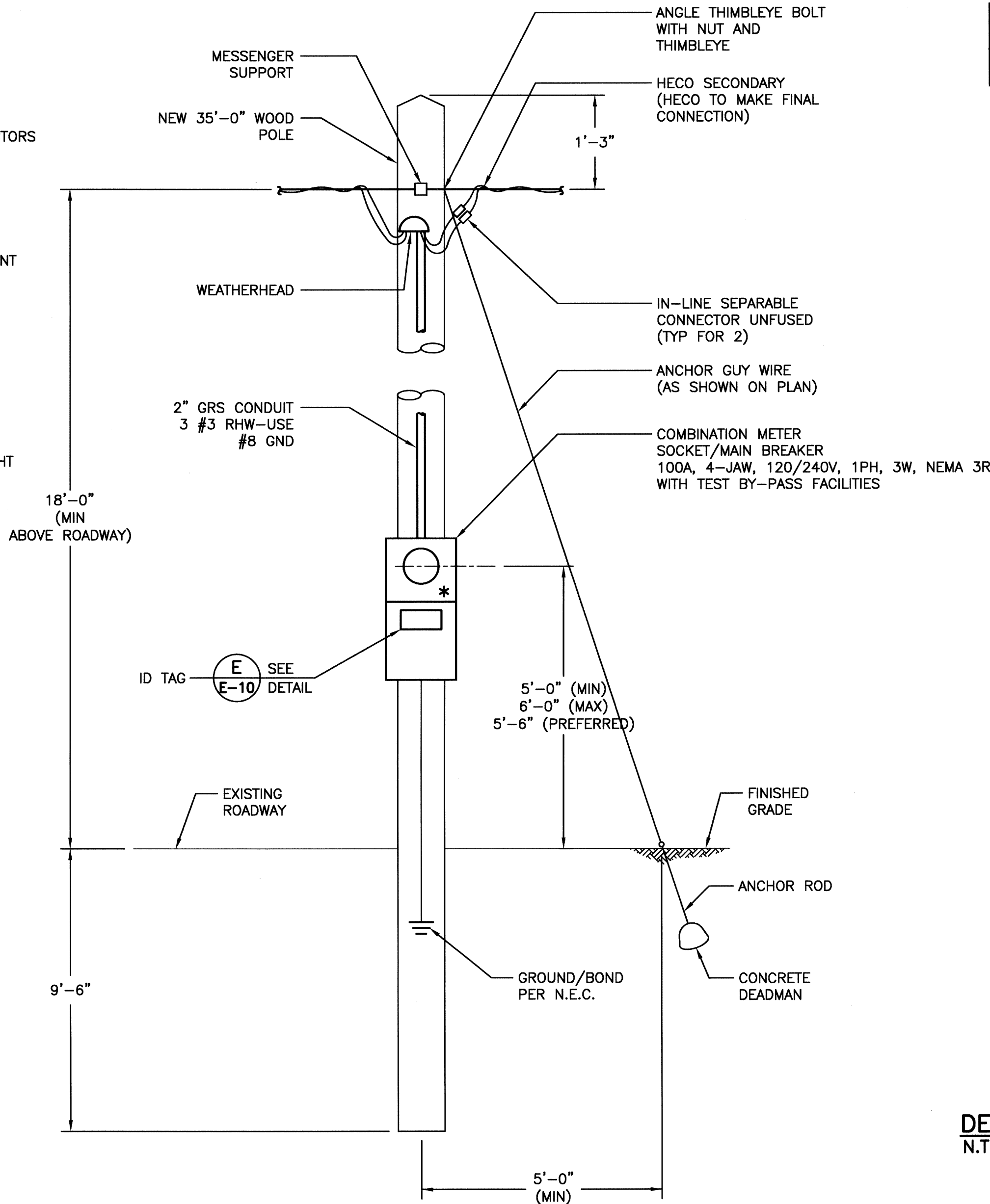
| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | IM-0300(115)          | 2009        | 16        | 36           |



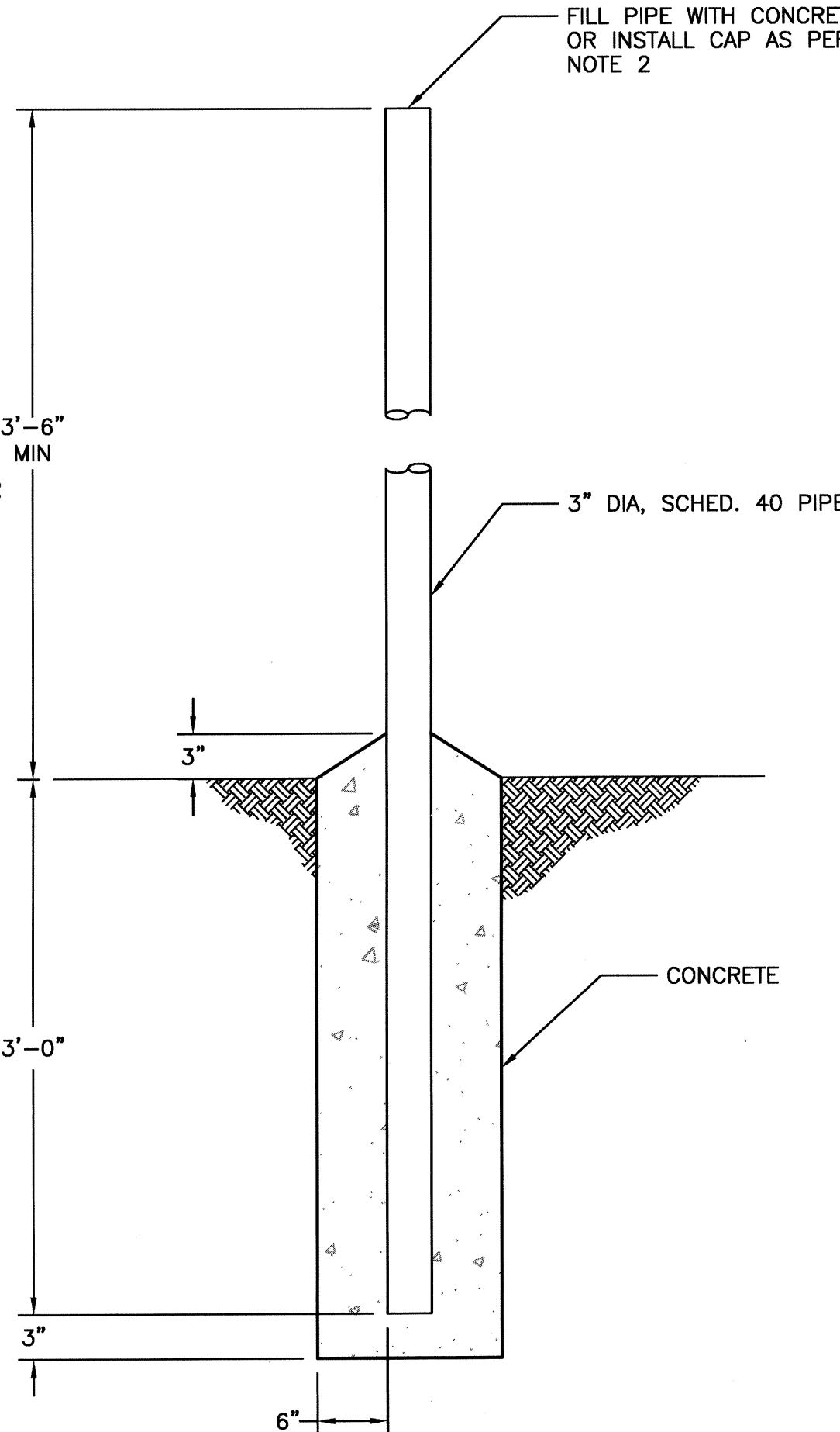
DETAIL **(A)** LPR CONTROL CABINET EQUIPMENT  
N.T.S. **(E-10)**



DETAIL **(B)** EXISTING STREET LIGHT  
N.T.S. **(E-10)**



DETAIL **(C)** WOOD POLE ELEVATION  
N.T.S. **(E-10)**



DETAIL **(D)** PERMANENT POST TYPE BARRIER  
N.T.S. **(E-10)**



DETAIL **(E)** METER SOCKET ID TAG DETAIL  
N.T.S. **(E-10)**

**METER NOTES:**

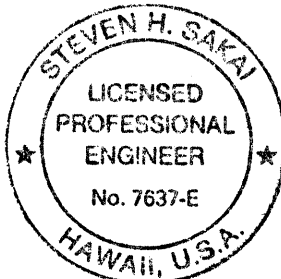
- \* PROVIDE PROVISION FOR HECO SEAL.
- USE 3-PLY LAMINATED FLEXIBLE PLASTIC, BLACK-WHITE-BLACK THICKNESS: BLACK CAP SHEET - 0.010", WHITE BASE SHEET - 0.052", BLACK BASE SHEET - 0.010"
- ATTACH ID TAG TO METER SOCKET USING SCOTCH 3M BRAND VERY HIGH BOND (VHB) DOUBLE COATED ACRYLIC FOAM TAPE OR EQUIVALENT.
- ID TAG LETTERS/NUMBERS SHALL BE 1/16" STROKE, (WHITE IN COLOUR).
- ID TAG LETTERS/NUMBERS AREA INSCRIBED BY CUTTING THROUGH "BLACK CAP SHEET" TO EXPOSE WHITE LETTERS/NUMBERS.

**BARRIER NOTES:**

- BARRIER POSTS ARE TO BE PAINTED YELLOW AS PER ANSI SPEC 2535.1 TO COMPLY WITH OSHA STANDARDS FOR COLORING CODE.
- THE PIPE THAT IS TO BE PLACED DIRECTLY IN FRONT OF THE DOORS SHALL NOT BE FILLED WITH CONCRETE. THE PIPE SHALL BE CAPPED AND THE WELDED NUTS ARE FOR SCREWING IN BOLTS TO ACT AS "HANDLES" FOR LIFTING. THE BOLTS ARE TO BE REMOVED AFTER INSTALLATION.
- MINIMUM ABOVE GROUND POST HEIGHT TO BE 3'-6" FOR VISIBILITY PURPOSES.

**GENERAL NOTES:**

- WOOD POLES:
  - WOOD POLES SHALL BE 35'-0" LONG, TREATED DOUGLAS FIR OR SOUTHERN PINE, GRADE A, CLASS 5.
  - CIRCUMFERENCES OF POLES SHALL BE 19.0-IN. AT THE TOP AND 29.0-IN. AT 6 FEET FROM THE BUTT.
  - MINIMUM EMBEDMENT OF POLES SHALL BE 9'-6".
- MESSENGER CABLES AND GUY WIRES:
  - ALL MESSENGER CABLES AND GUY WIRES SHALL BE 1/4" DIAMETER GALVANIZED EXTRA STRENGTH WITH A MINIMUM ULTIMATE TENSILE STRENGTH OF 6,650lbs.
  - THE MESSENGER CABLES AND GUY WIRES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A475.
  - THE SAG FOR THE MESSENGER CABLES SHALL BE A MINIMUM OF 5% OF THE LENGTH OF THE SPAN.
- FOR THE PLACEMENT OF ANCHOR ROD AND DEAD MAN, SEE HECO STANDARD CONSTRUCTION SHEET Nos. 3-1030 AND 3-1040.
- ALL CABLE, WIRE, AND ANCHOR ROD ASSEMBLY CONNECTORS SHALL BE GALVANIZED.



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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**SERVICE ELEVATION  
NODE C - WAIAWA**

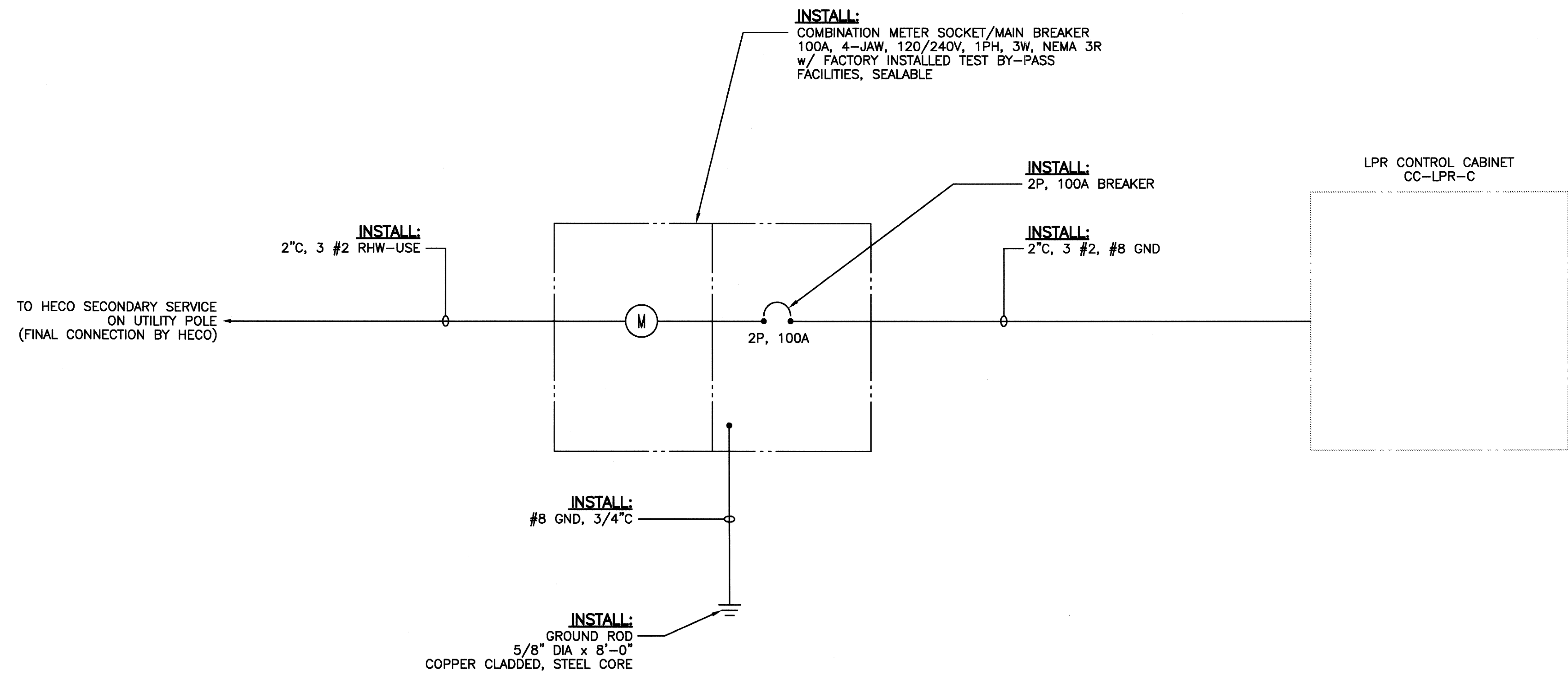
FREEWAY MANAGEMENT SYSTEM PHASE 1B  
TRAVELER INFORMATION SYSTEM, UNIT 3  
ITS EQUIPMENT INSTALLATION

F.A.P. NO. IM-0300(115)

SCALE: NONE DATE: DEC 2008

SHEET No. E-10 OF 36 SHEETS

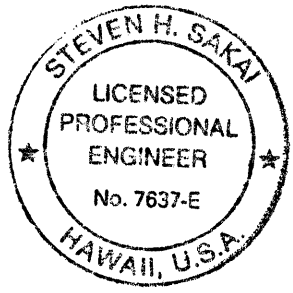
| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | IM-0300(115)          | 2009        | 17        | 36           |



DETAIL (B) NODE C - WAIAWA ONE-LINE DIAGRAM  
N.T.S. (E-11)

NOTES:  
1. SEE SHEET E-10 FOR METER ELEVATION DETAILS.

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UNLESS NOTED OTHERWISE



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OR UNDER MY SUPERVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SERVICE ONE-LINE DIAGRAM  
NODE C - WAIAWA**

FREEWAY MANAGEMENT SYSTEM PHASE 1B  
TRAVELER INFORMATION SYSTEM, UNIT 3  
ITS EQUIPMENT INSTALLATION

F.A.P. NO. IM-0300(115)

SCALE: NONE DATE: DEC 2008

**SHEET No. E-11 OF 36 SHEETS**