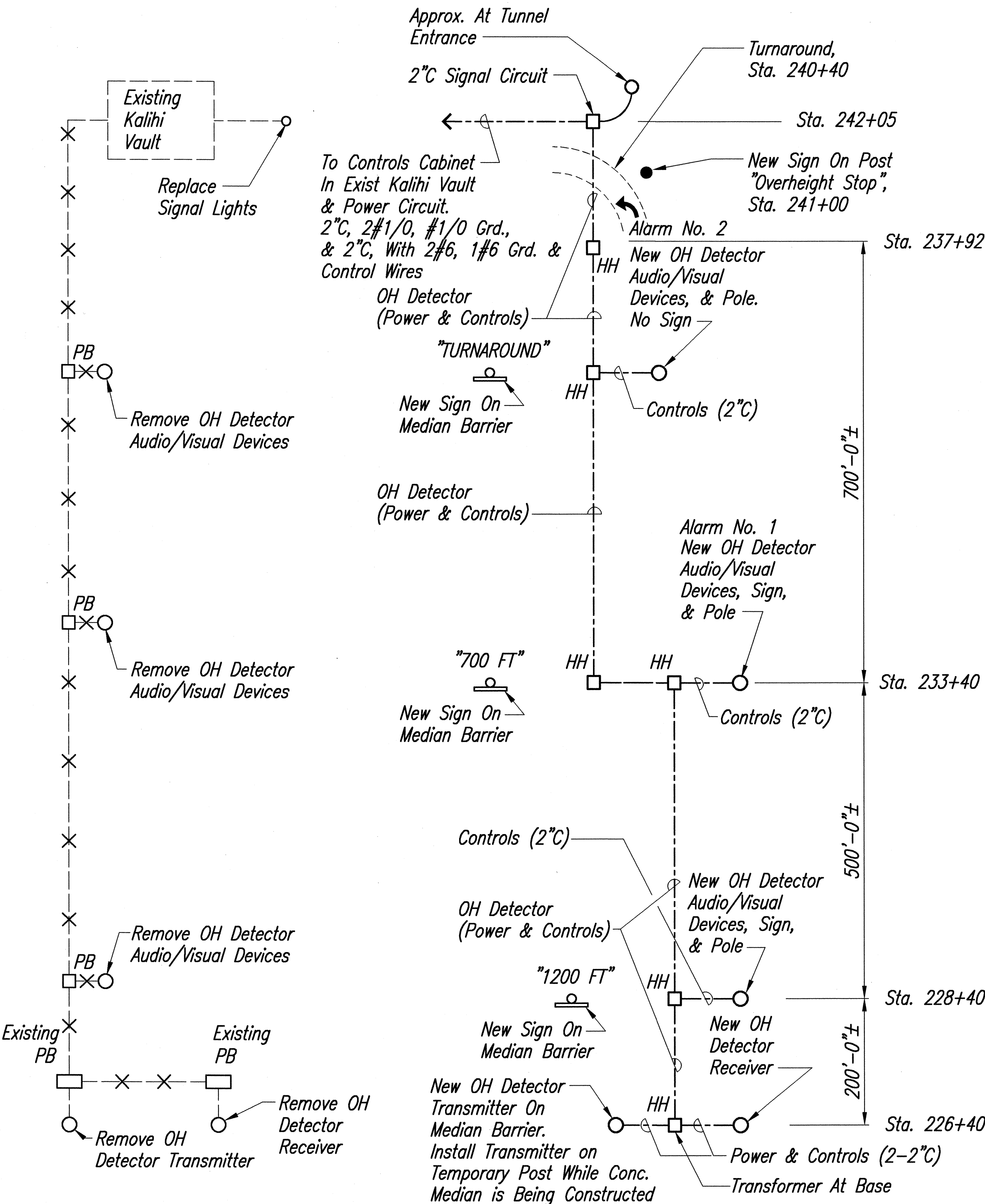
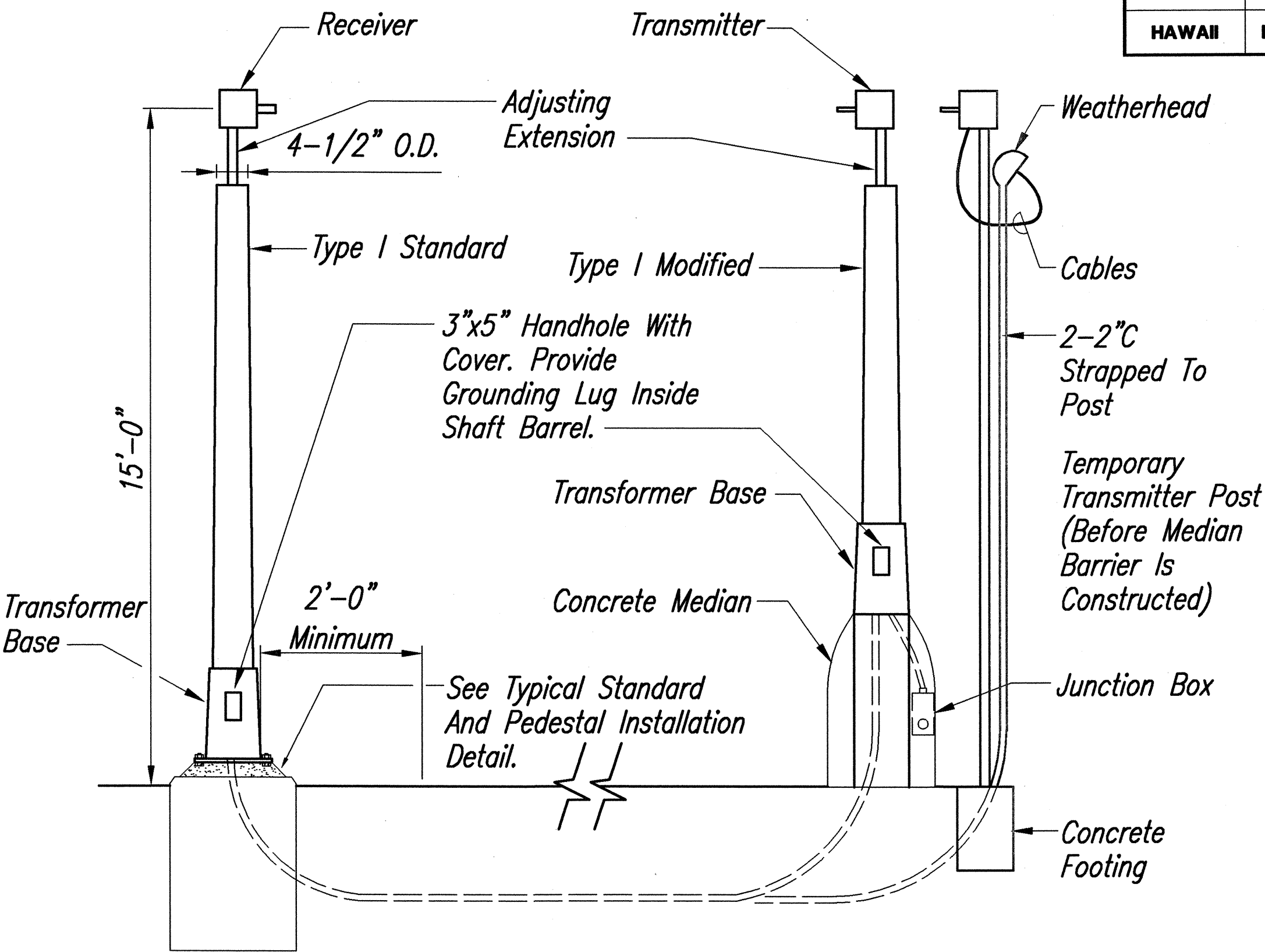


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CM-STP-063-1(21)	2002	184	187



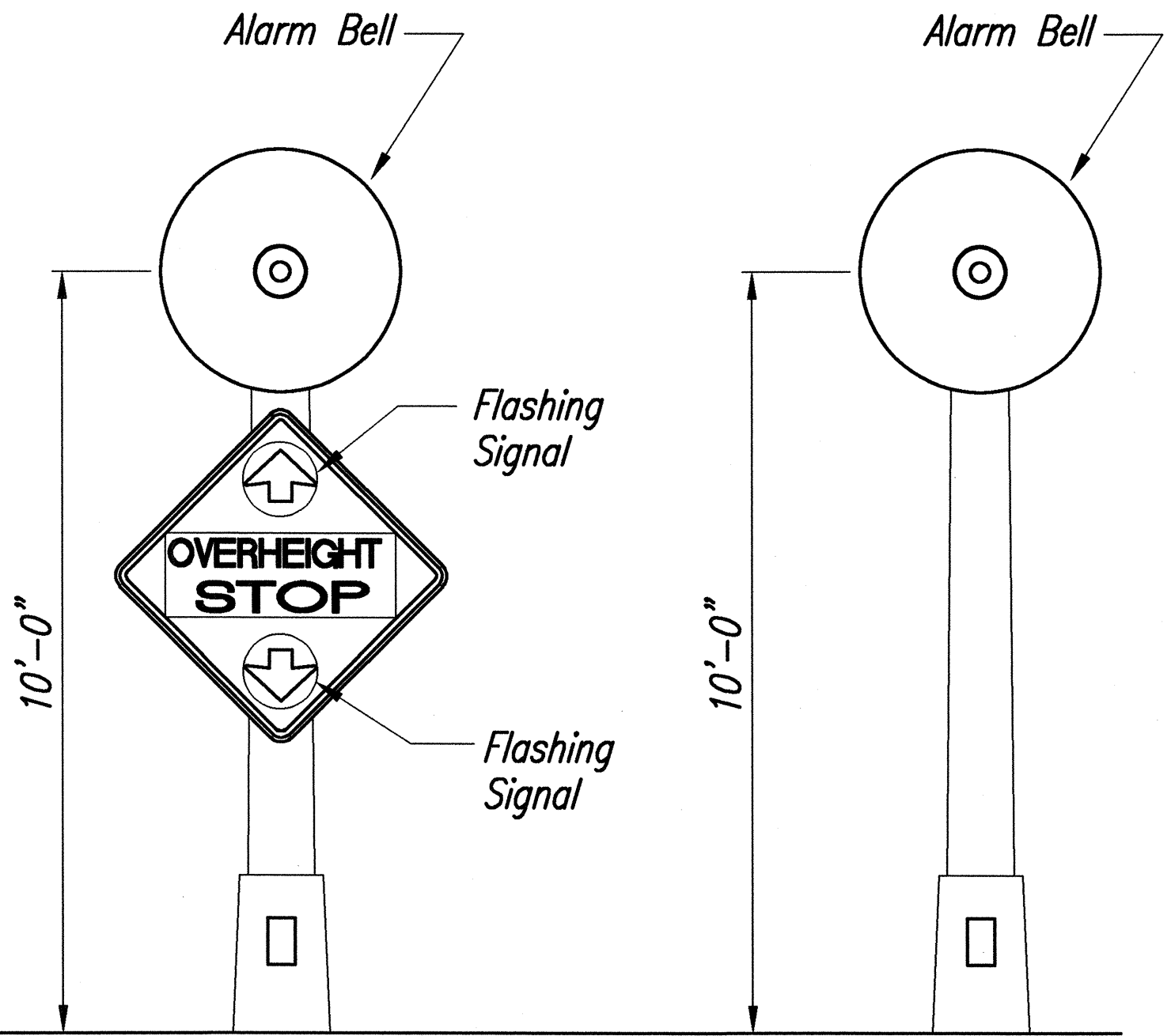
**OVERHEIGHT DETECTOR SYSTEM  
DEMOLITION SCHEMATIC DIAGRAM**  
SCALE: NTS

**NEW OVERHEIGHT DETECTOR  
SYSTEM SCHEMATIC DIAGRAM**  
SCALE: NTS



**OVERHEIGHT DETECTOR UNIT**  
SCALE: NTS

- Notes:**
1. Activate New System Before Deactivation Of Existing System.
  2. Construct With Street Light Work Near Kalihi Vault.



**OVERHEIGHT ALARM UNIT**  
SCALE: NTS



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OR UNDER MY SUPERVISION.

*C. Kim*

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**OVERHEIGHT DETECTOR DETAILS**

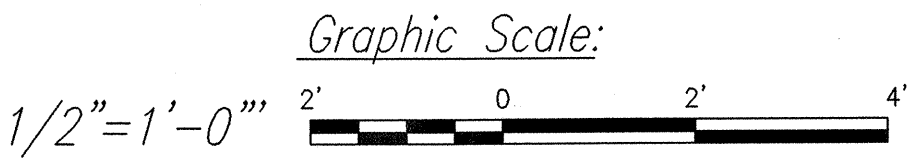
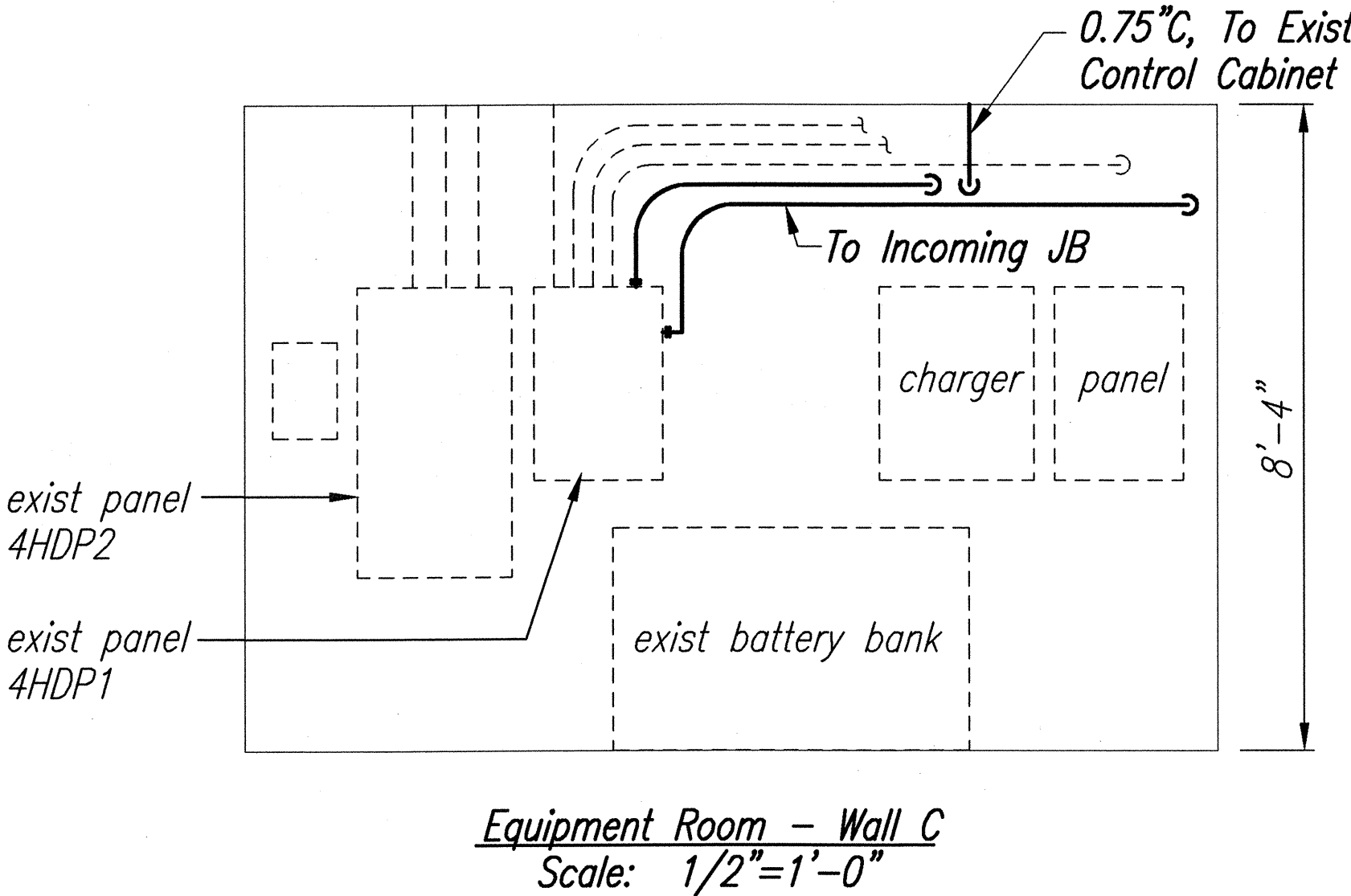
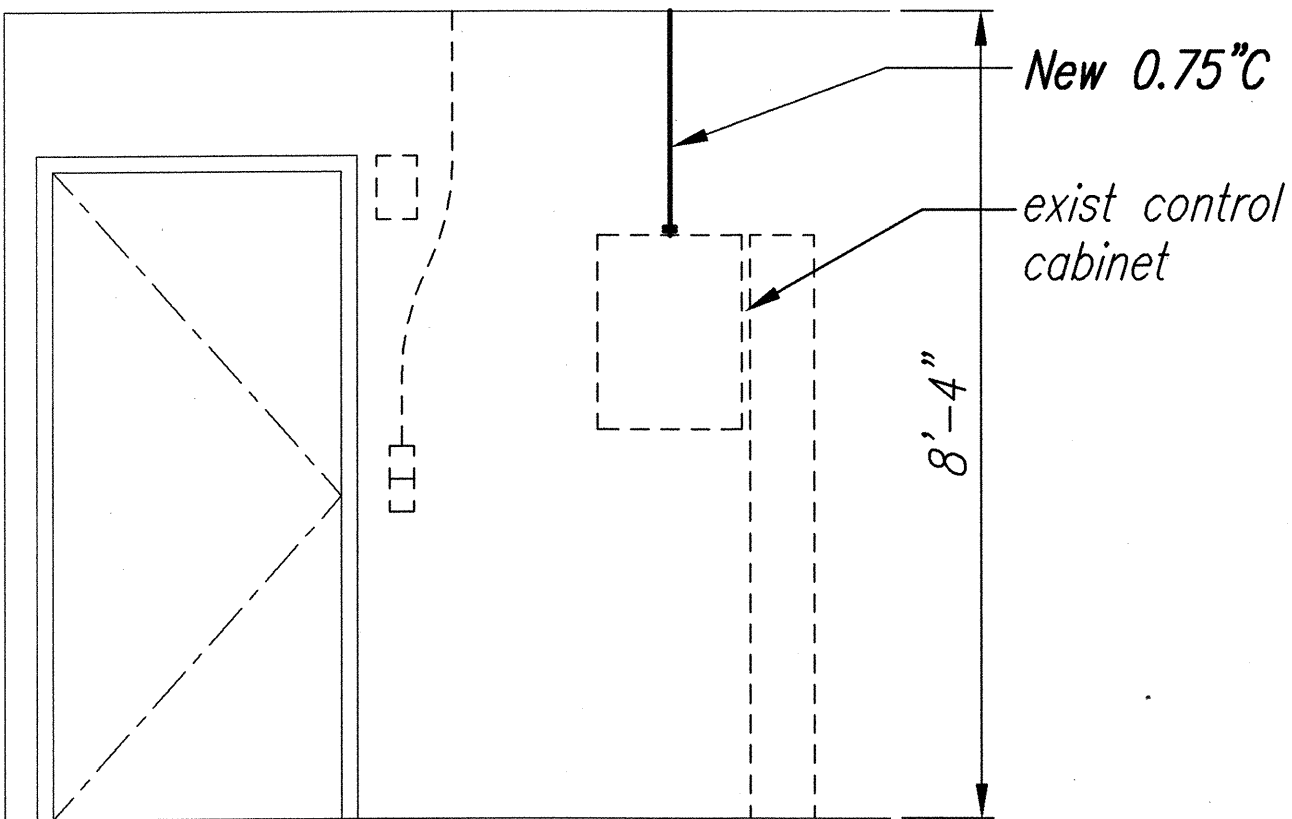
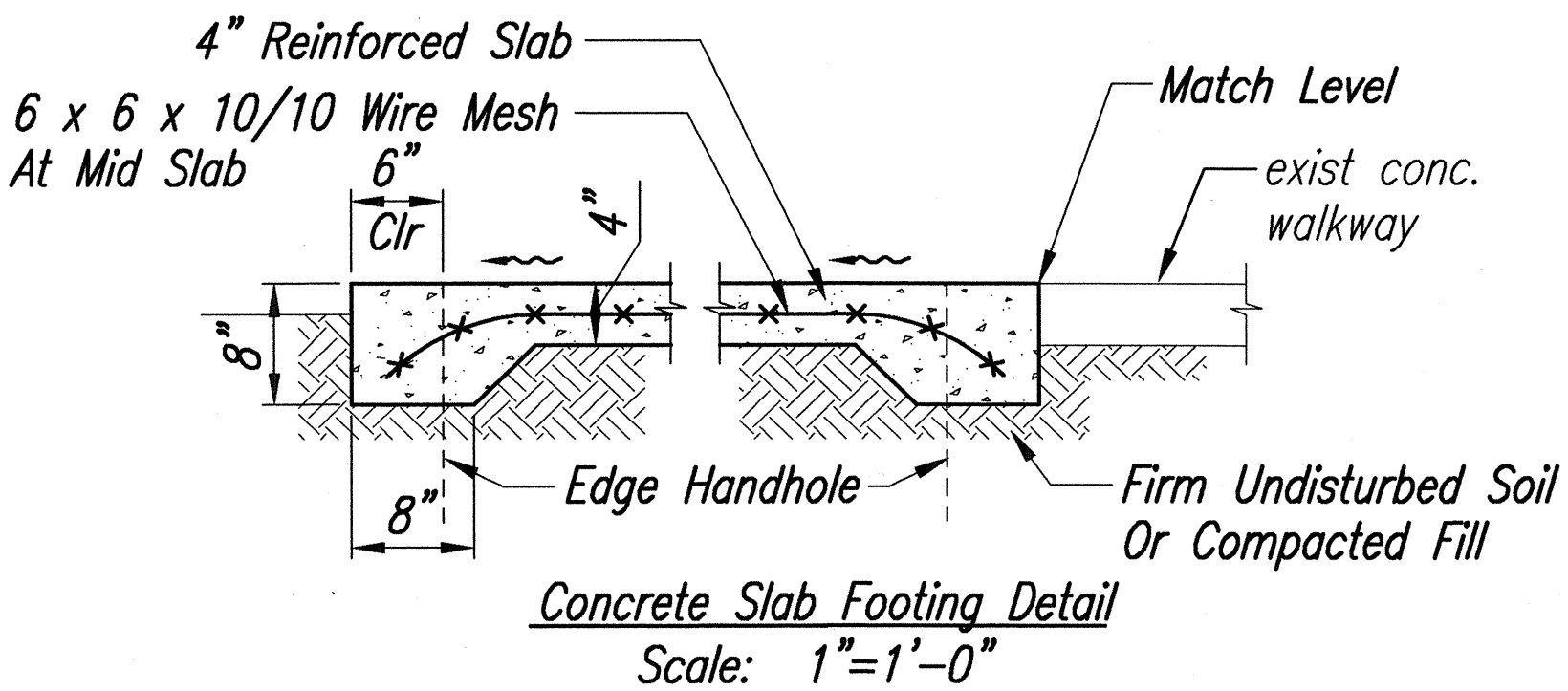
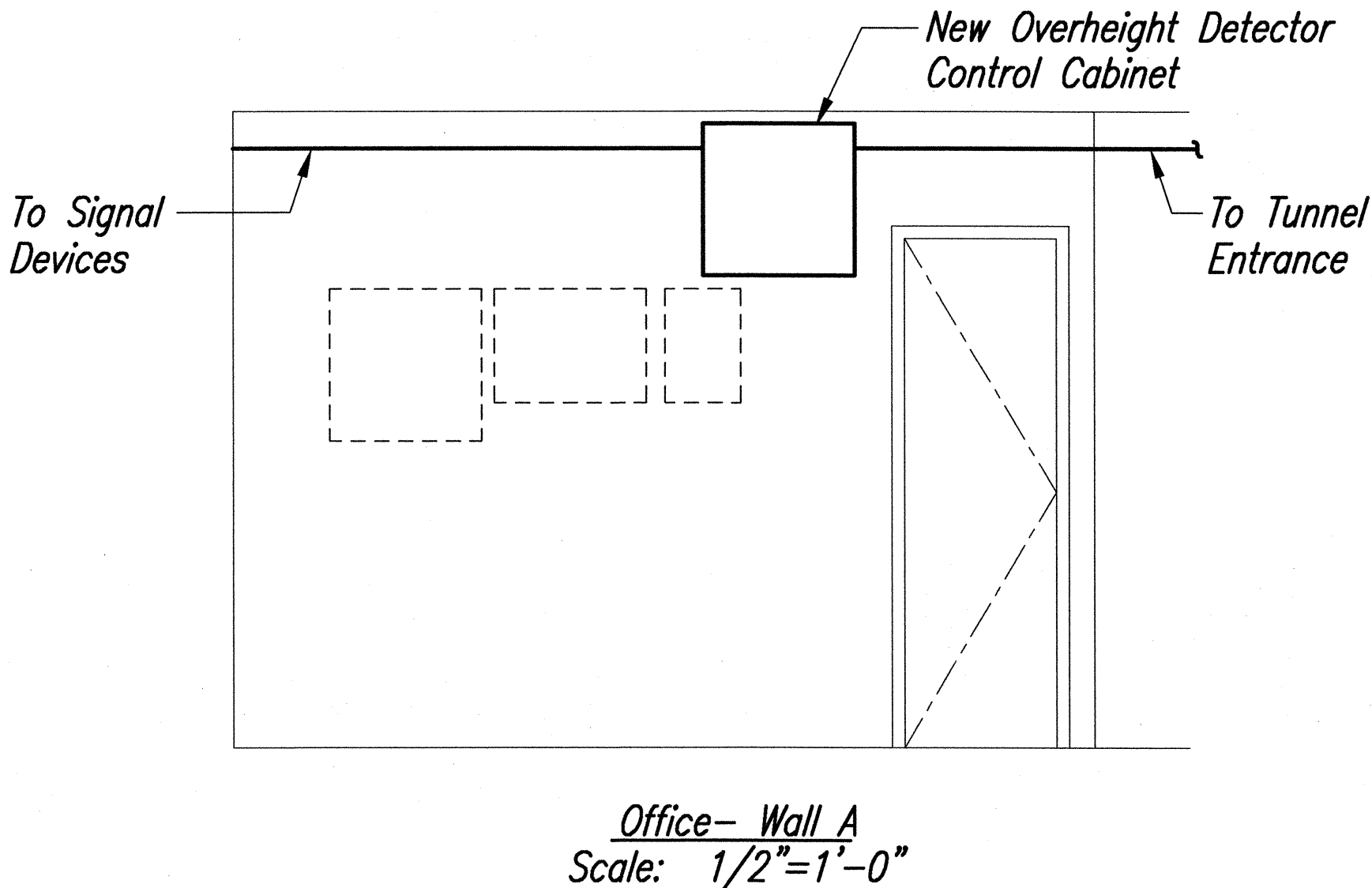
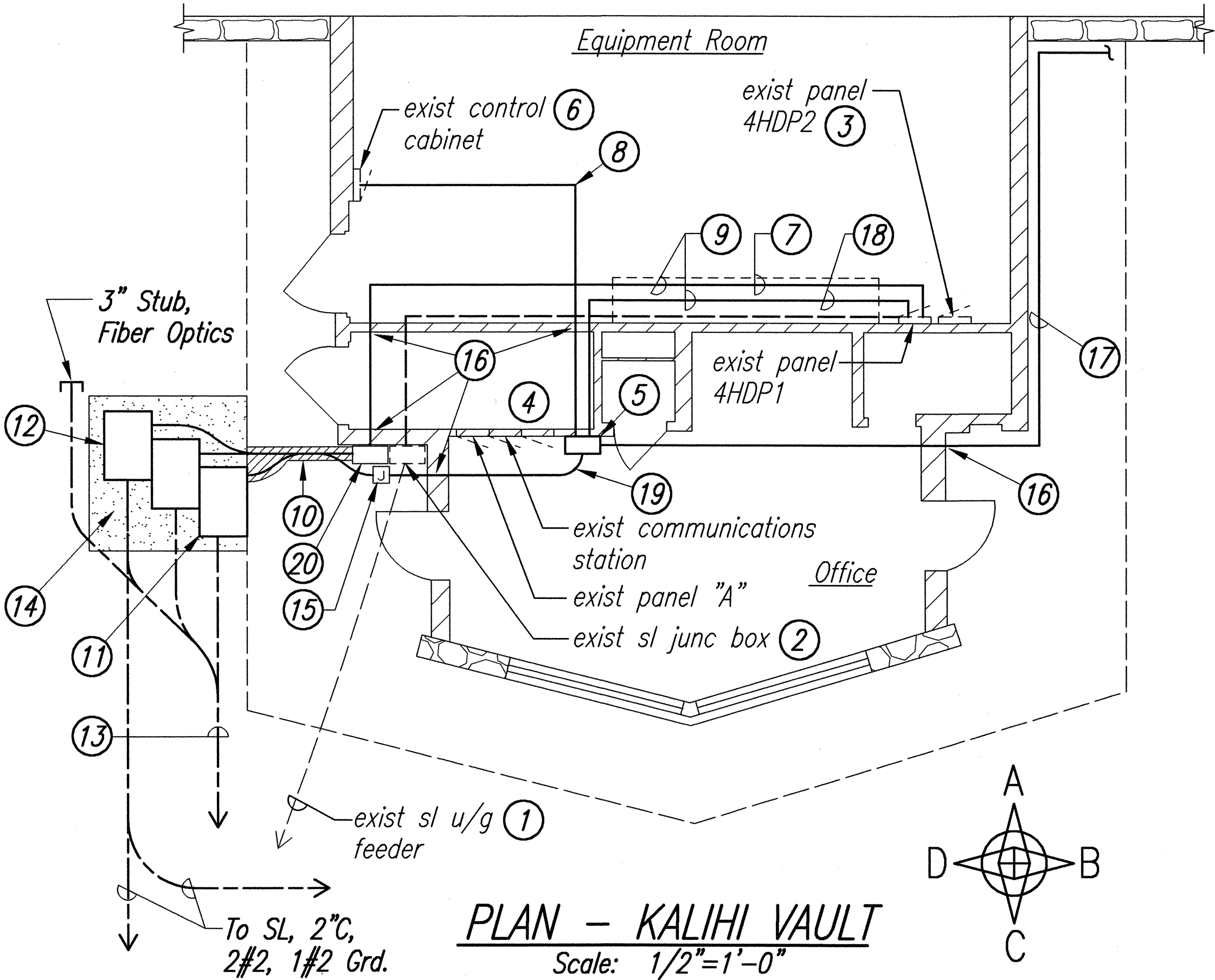
**LIKELIKE HIGHWAY RESURFACING**  
**Emmeline Place to the Wilson Tunnel**  
**F. A. Project No. CM-STP-063-1(21)**

Scale: NTS Date: December, 2001

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CM-STP-063-1(21)	2002	185	187

Plan – Kalihi Vault Notes

- Existing Underground Street Light Feeder – Abandon in place and remove cables after new street lighting system accepted.
- Existing Street Light Junction Box – Remain without change. Remove cables. Connect Street Light conduits and feeders.
- Existing Panel 4HDP2 – Provide New Breakers for Street Lighting and Overheight Detector System, one for each system. Install Street Lighting Contactors in Separate Cabinet on Clear Space on Wall Near Entrance Door.
- Existing Panel and Communications Station – Remain with no change.
- New Overheight Detector Controller – Place new system into full operations before demolition and removal of existing (including poles, transmitters, receivers, circuiting, and signalling devices on highway).
- Existing Control Cabinet – Remain with no change.
- New 2"C, 4#2, 1#2 GRD – Street Lighting Feeder and New 2"C, Moveable Barrier Feeder, 4#2, 1#2 GRD.
- New 0.75"C, Empty
- New Conduits, Strapped to Wall or Ceiling. Provide mounting brackets and spacers to facilitate crossing existing conduits.
- Existing Concrete Sidewalk – cut and patch to install new conduits for Street Lighting and Overheight Detector System, Duct Section "S". Penetrations at top of wall, similar to existing penetrations into vault.
- New Type C Handhole, Overheight Detector System
- New Type C Handhole. Street Lighting System
- New Ductline to Median Barrier Street Lights and Overheight Detector systems, Duct Section "S" and 1-3"C Fiber Optics.
- New Concrete Slab, 6" Clear from Handholes to Edge of Slab, Minimum 4" reinforced slab, with 8" footing all around (See detail this sheet). Match level of existing adjacent sidewalk.
- New Overheight Detector Junction Box – 18"W x 24"H x 8"D, NEMA 4X (Stainless Steel), provide marine grade plywood covering recessed opening in wall (board 6" beyond recessed edges, minimum), prime and paint to match existing wall finish, mount junction box. Connect Overheight Detector Power and Controls Conduits, Feeder, and Circuiting.
- Core Holes in Existing Concrete Walls at Ceiling to install new conduits, Patch and Seal, Paint to Match existing wall finish.
- New 2"C with Controls Wiring Per Manufacturer's Requirements to Signal Light at Tunnel Entrance (Overheight Detector)
- New Branch Circuit to Overheight Detector Controller – 0.75"C, 3#12, 1#13 GRD.
- New 2"C, 2#2, 1#2 GRD (Power) and 2"C, #6 (Number of Conductors Per Manufacturer's Requirements) and 1#6 GRD (Controls) for Overheight Detector System.
- New Movable Barrier Junction Box, 18"W x 24"H x 8"D. Connect conduits and feeders to handhole and Panel.



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C. Kim

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DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**OVERHEIGHT DETECTOR DETAILS**  
  
**LIKELIKE HIGHWAY RESURFACING**  
**Emmeline Place to the Wilson Tunnel**  
**F. A. Project No. CM-STP-063-1(21)**  
Scale: As Noted      Date: December, 2001  
SHEET No. 2 OF 2 SHEETS

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C. Kim

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