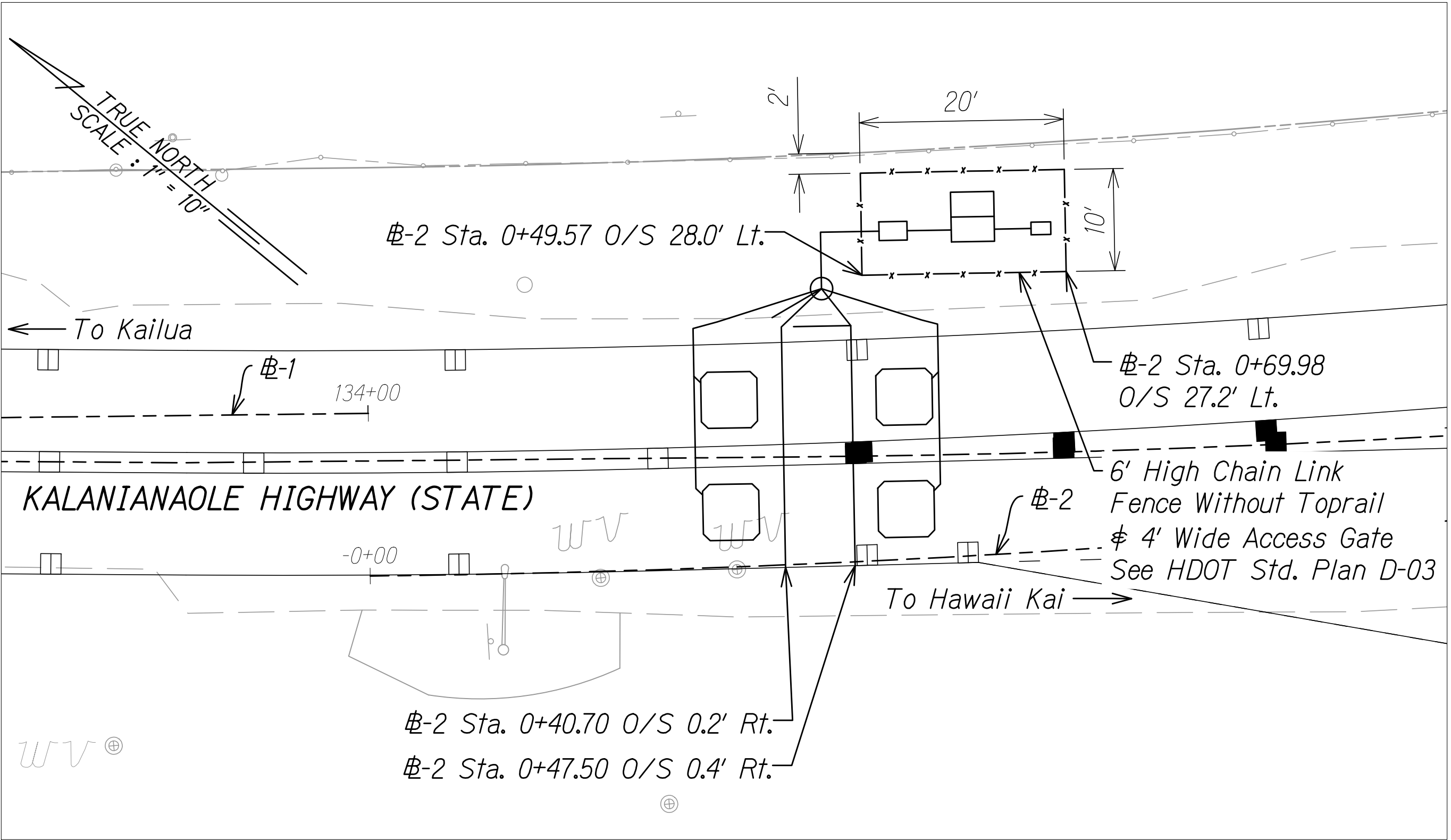


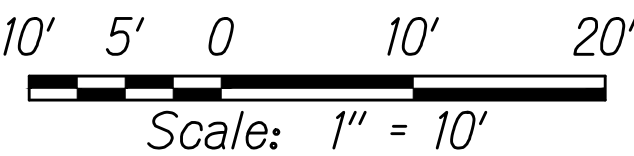
FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(059)	2021	136	243



PROPOSED LOCATION OF EVC TRAFFIC COUNTING SYSTEM

Scale: $1" = 10'$

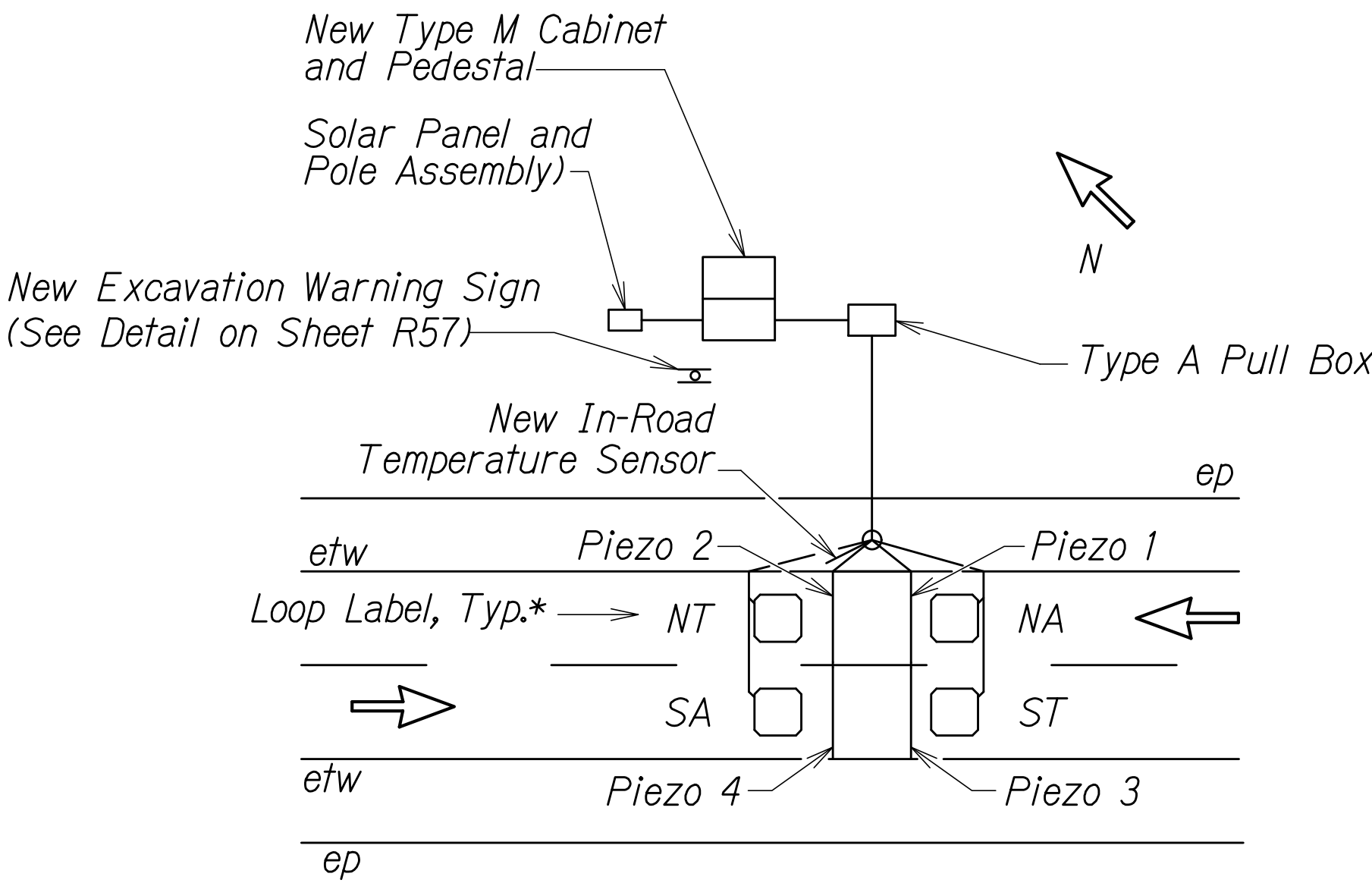
GRAPHICAL SCALE:



N 2 T
Indicates approaching or trailing loop
Indicates lane number
Indicates directions*

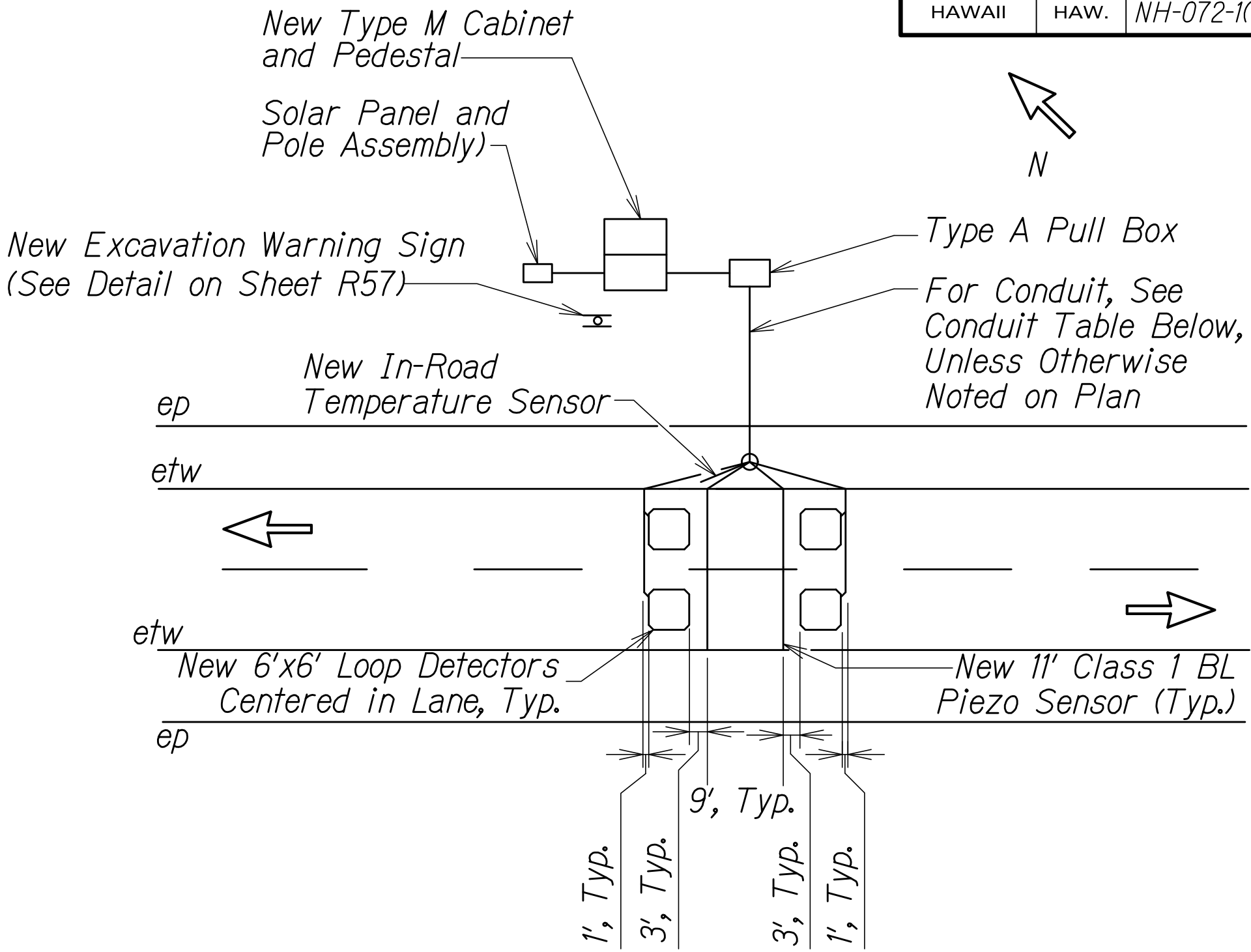
LOOP LABEL LEGEND

N = North
S = South
A = Approaching
T = Trailing



LABELING OF LOOPS AND PIEZOS

Not to Scale



Conduit Table:

Conduit* #-Size	Class 1 BL Sensor Lead Cables	2C #18 Loop Detector Cable
1 - 2"	4	4

*Conduits under pavement and at utility crossings shall be concrete encased

***NOTES:**

- All dimensions and callouts are typical unless otherwise noted on plan
- Contractor shall coordinate service agreements and connections to electrical and communication service. Contractor shall also contact the appropriate State Dept. of Transportation Representative for service agreement. (Highway Planning, Contact, Goro Sulijoadikusumo, P.E., at 587-1839).

EVC TRAFFIC COUNTING SYSTEM LAYOUT DETAIL

Not to Scale

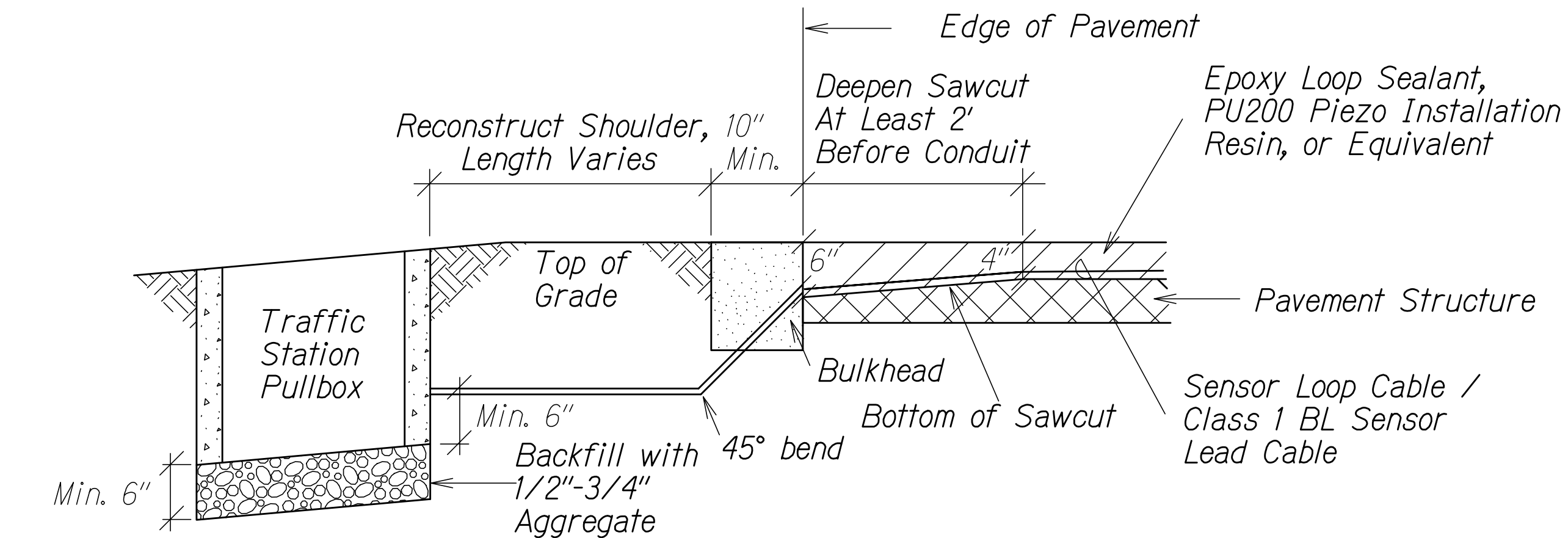
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EVC TRAFFIC COUNTING SYSTEM
LAYOUT AT MILEPOST 5.33
KALANIANAʻOLE HIGHWAY IMPROVEMENTS PHASE 2
Poalima Street to Vicinity of Makai Pier
Federal-Aid Project No. NH-072-1(059)

Scale: AS SHOWN Date: January 2021

SHEET No. R53 OF 66 SHEETS

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(059)	2021	137	243

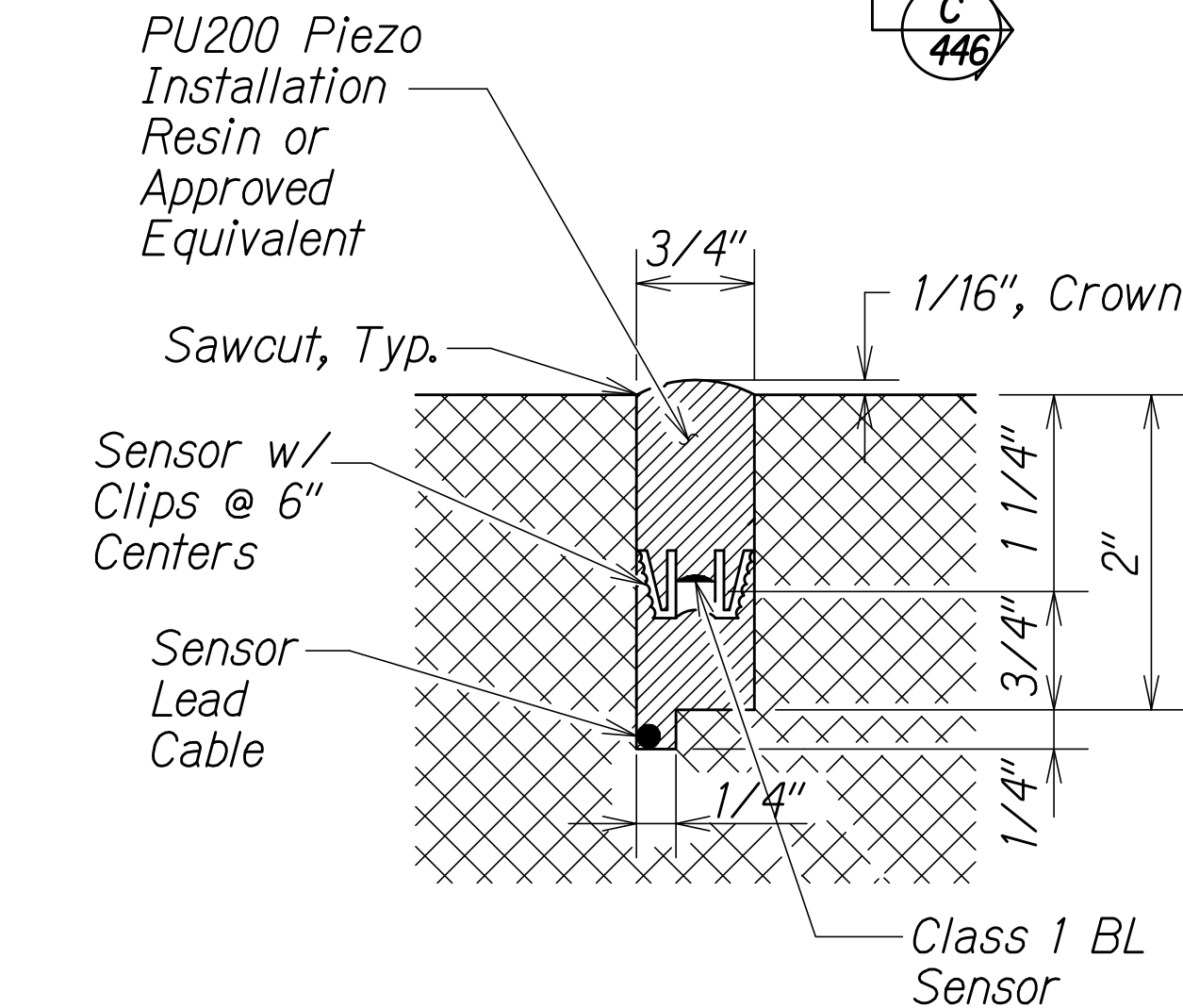
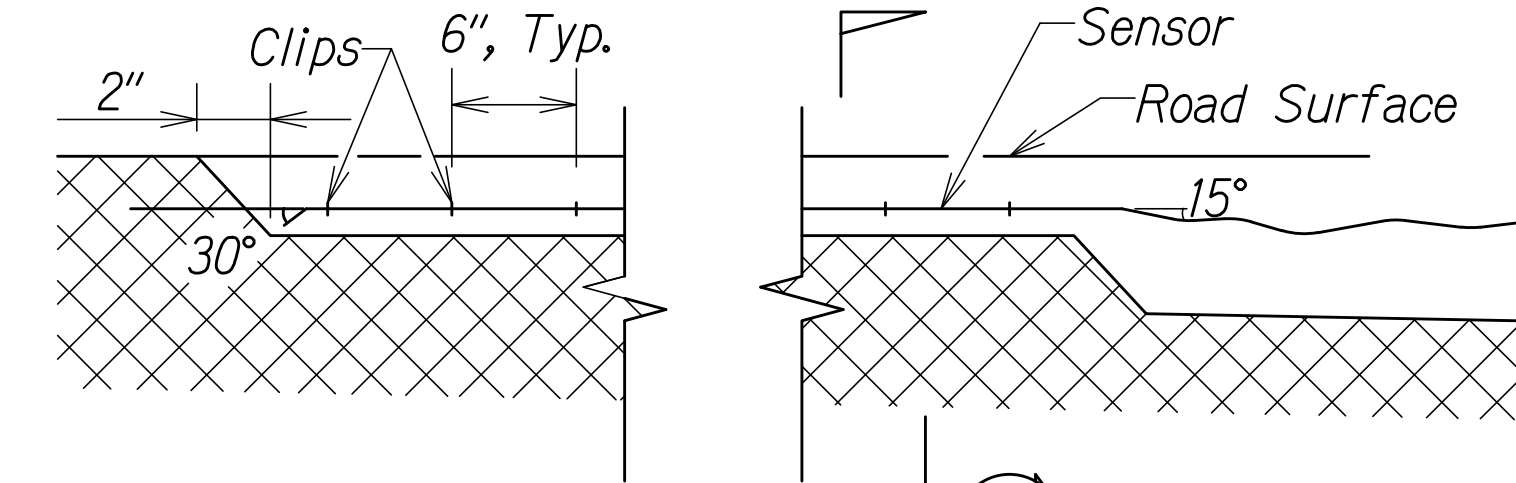


NOTES ON CONSTRUCTION AT END OF SAWCUT:

1. Seal roadway of conduit after installation of conductor.
2. Install bulkhead across conduit trench.
3. Place Epoxy Loop Sealant, PU200 Piezo Installation Resin or Equivalent in sawcut.
4. Backfill over conduit with new AC.
5. Reconstruct curb and gutter as required.
6. Conduit should be installed at least 10 inches from the edge of paved shoulder. If the depth of pavement is 4 inches or less at the shoulder, conduit should be installed at least 12 inches from the edge of paved shoulder.

DETAIL OF SENSOR LOOP/CLASS 1 BL SENSOR AT EDGE OF ROADWAY

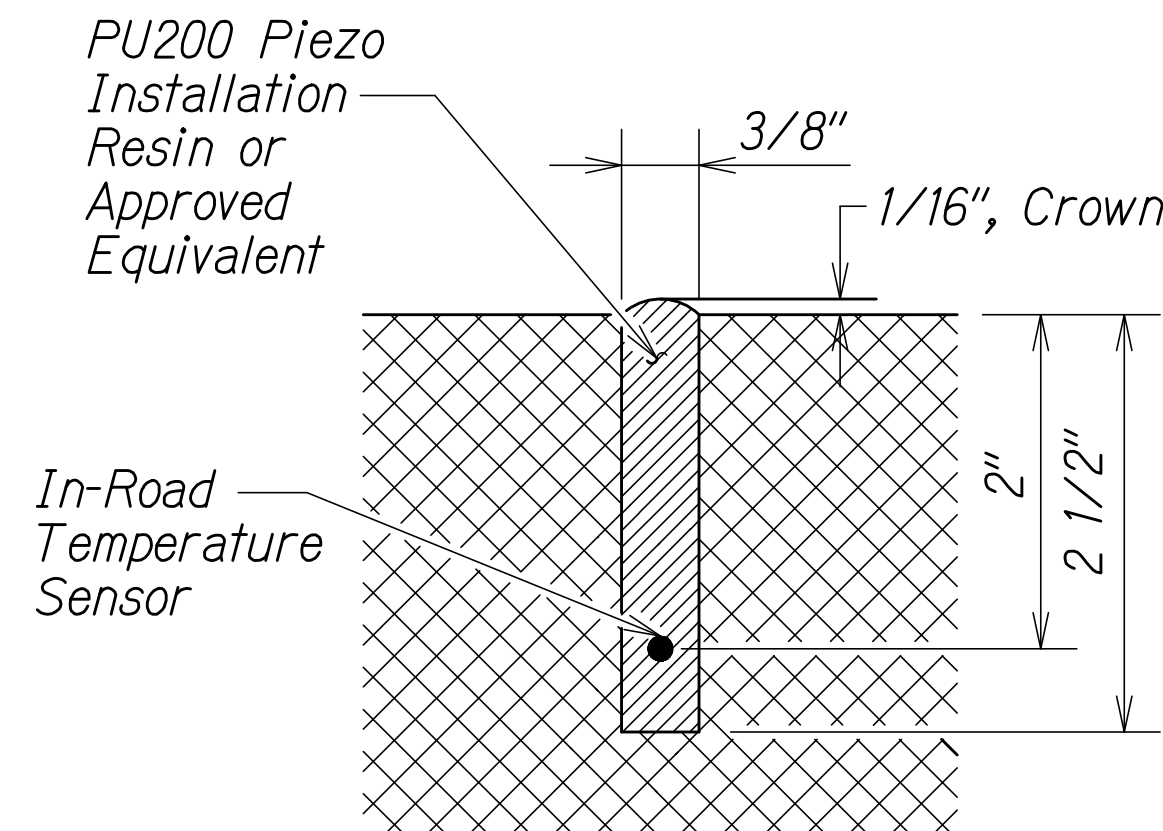
Not to Scale



SECTION **C**
Not to Scale 446

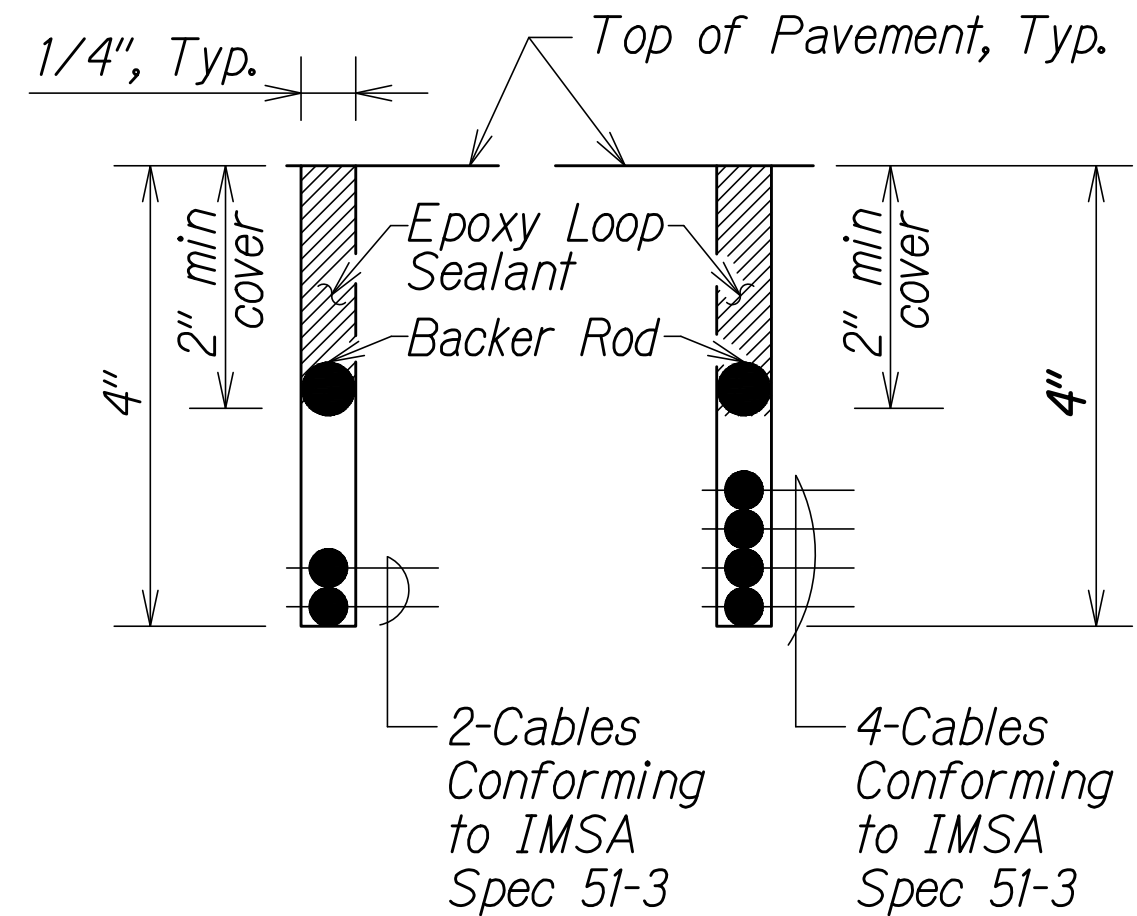
PIEZOELECTRIC SENSOR INSTALLATION DETAIL

Not to Scale



IN-ROAD TEMPERATURE SENSOR INSTALLATION DETAIL

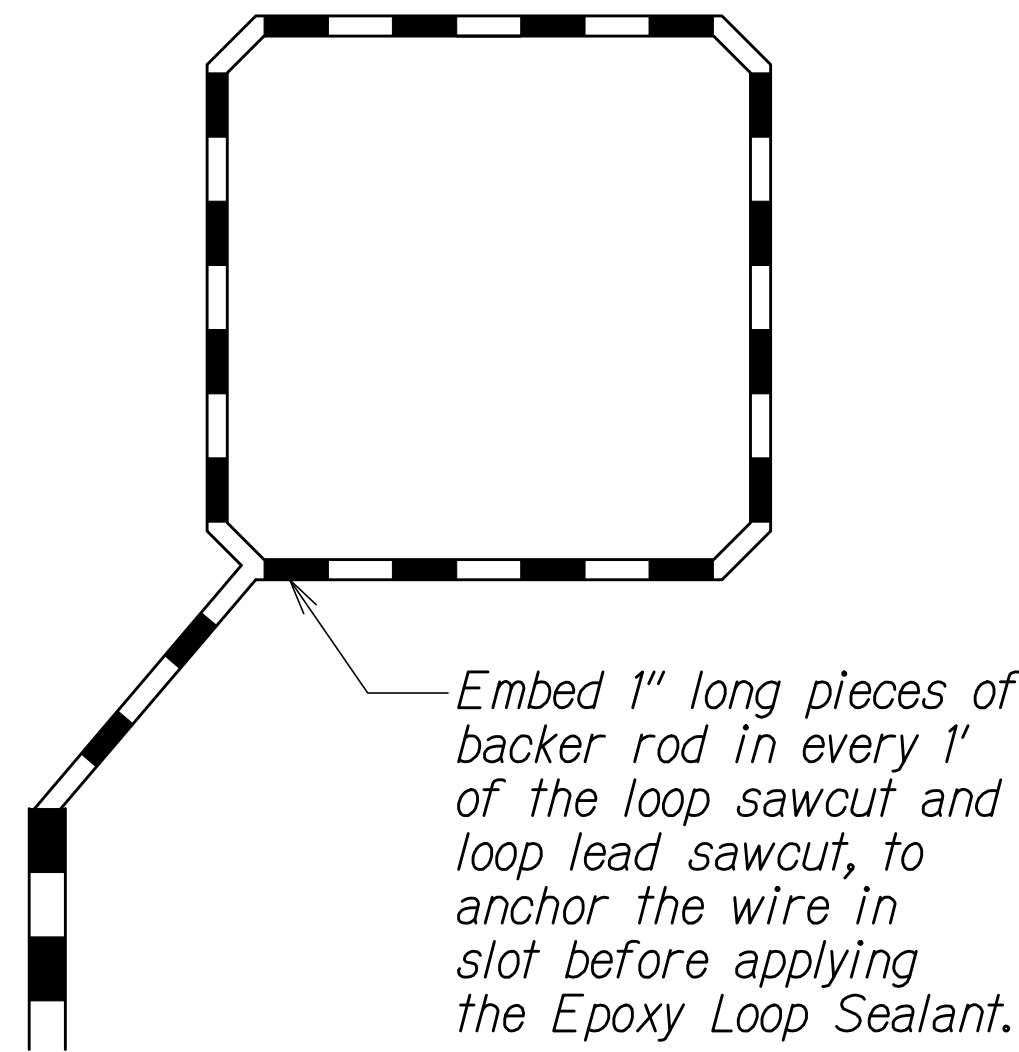
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SECTION **A**
Not to Scale 446

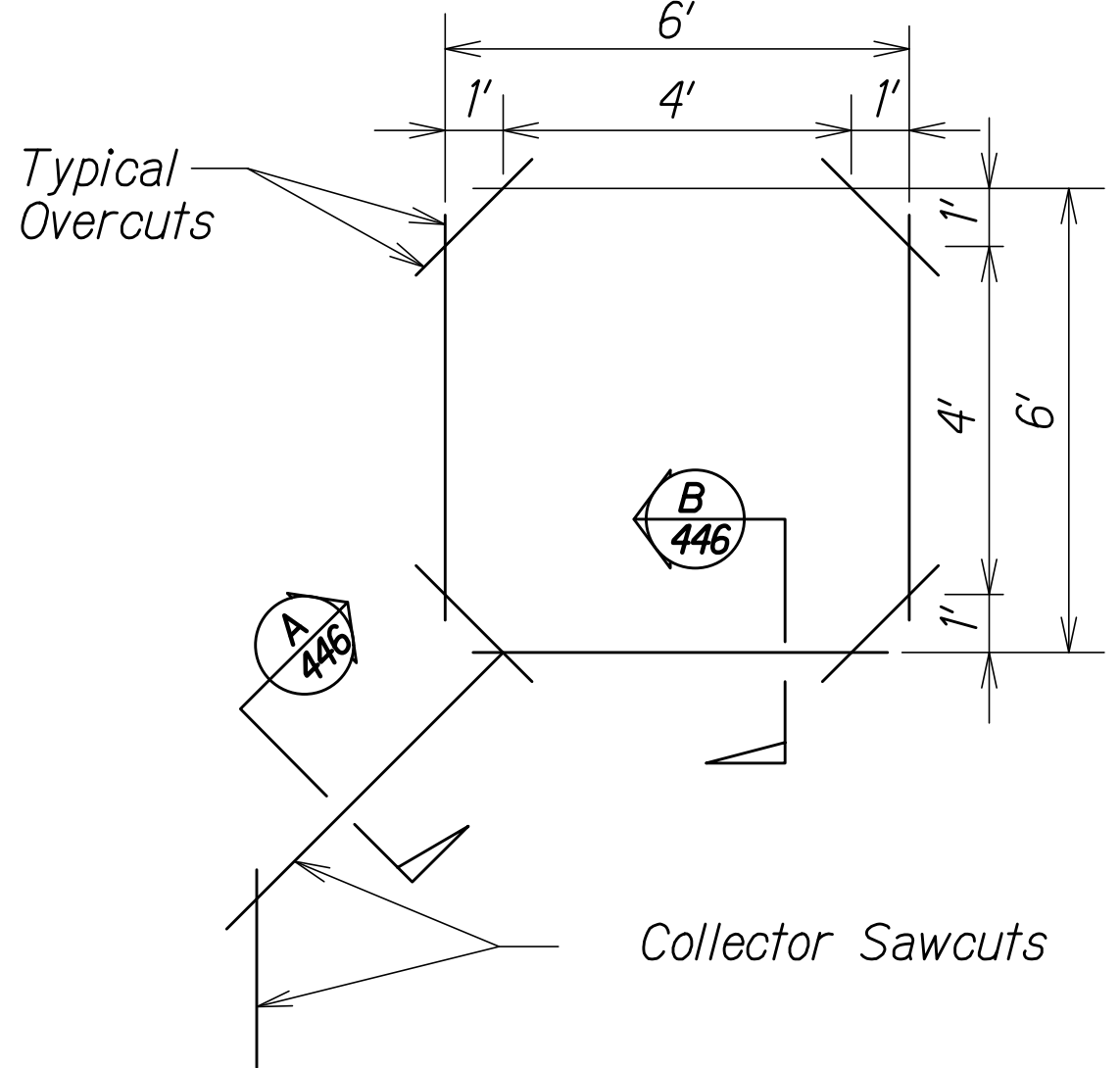
TYPICAL SECTION THROUGH SENSOR LOOP

Not to Scale



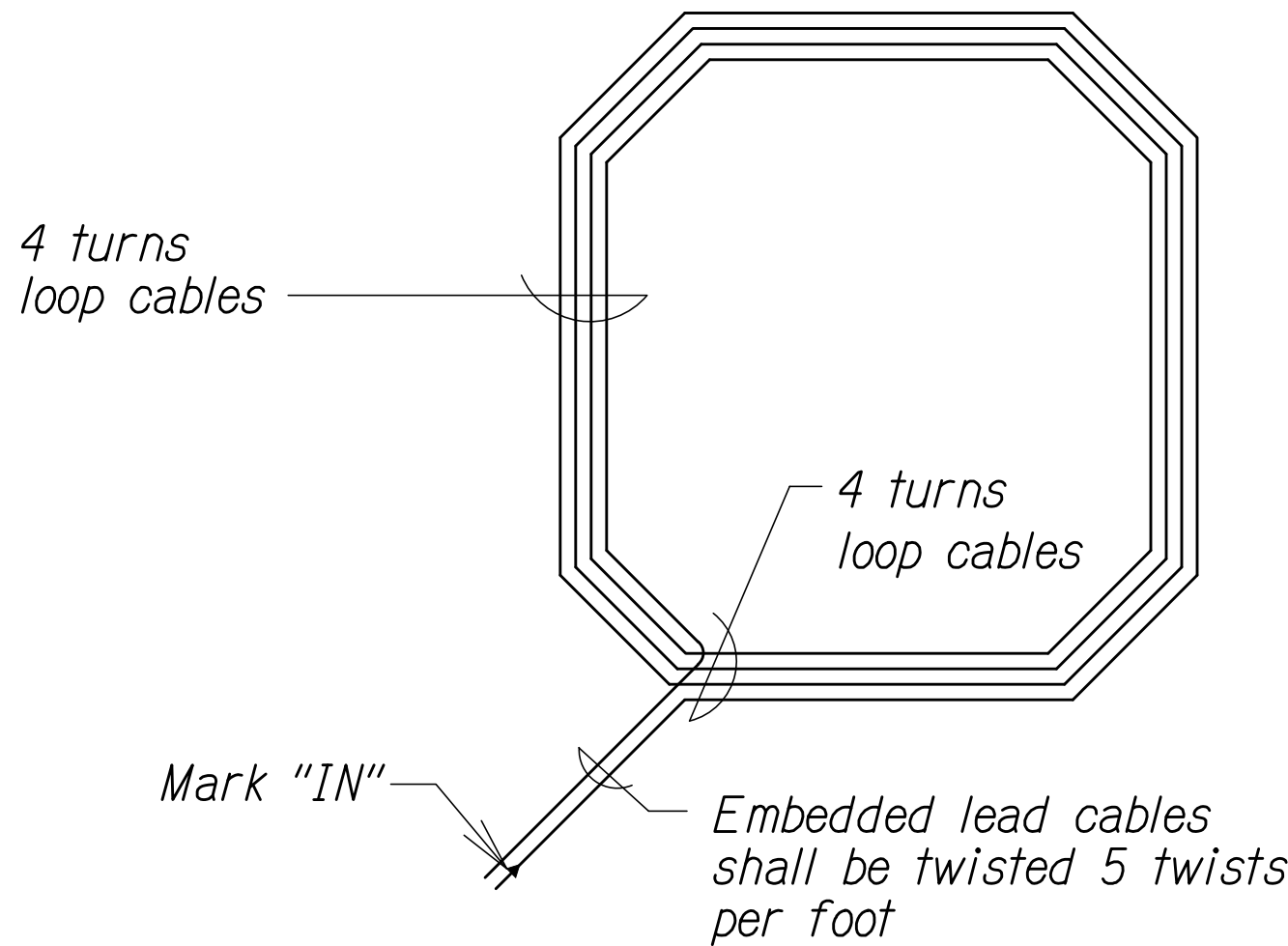
TYPICAL SENSOR LOOP BACKER ROD PLACEMENT DIAGRAM

Not to Scale



TYPICAL SENSOR LOOP SAWCUT DETAIL

Not to Scale



PLAN

TYPICAL SENSOR LOOP WIRING DIAGRAM

Not to Scale

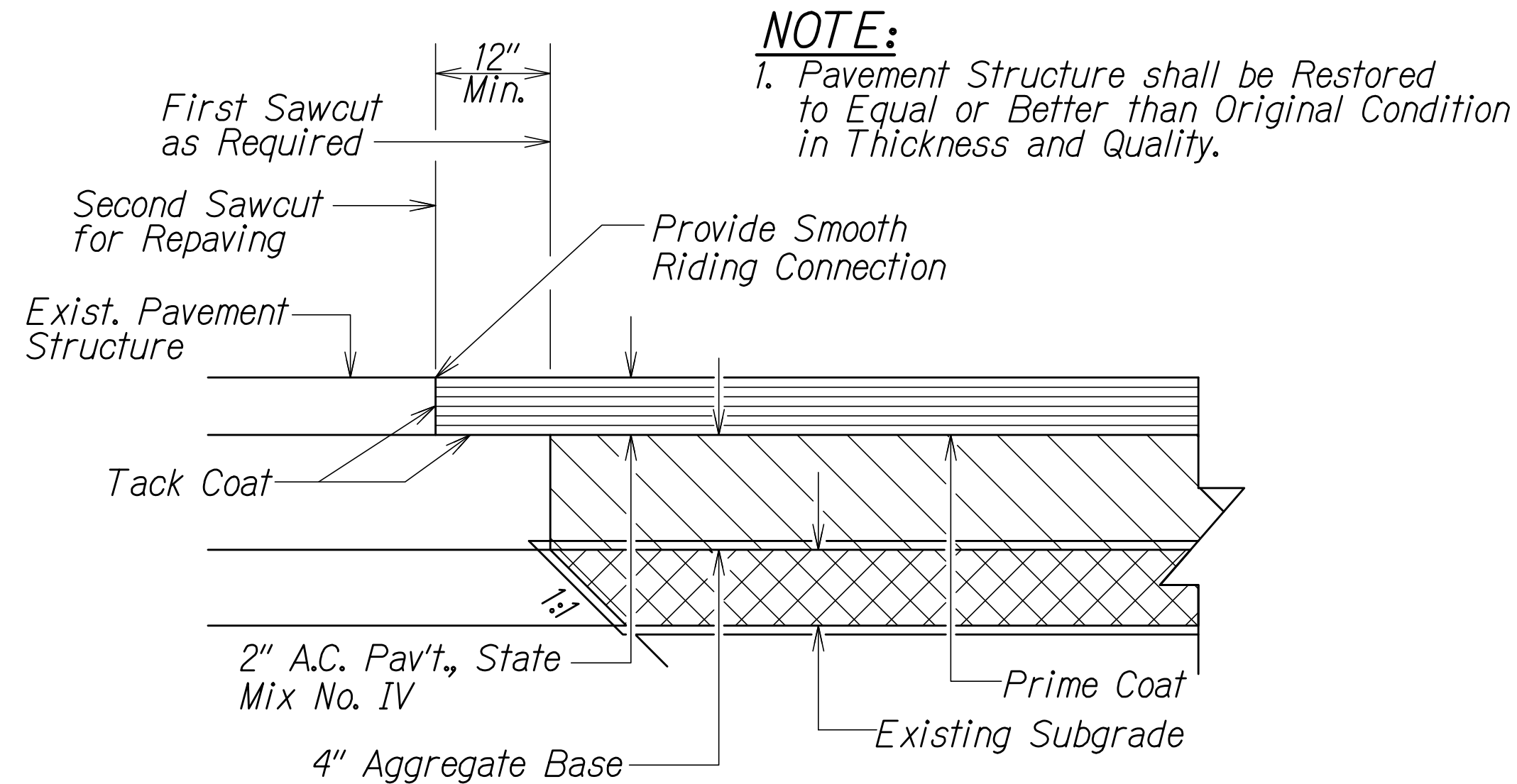
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**EVC TRAFFIC COUNTING
SYSTEM SENSOR DETAILS**
KALANIANA'OLE HIGHWAY IMPROVEMENTS PHASE 2
Poalima Street to Vicinity of Makai Pier
Federal-Aid Project No. NH-072-1(059)
Scale: NTS Date: January 2021

SHEET No. **R54** OF **66** SHEETS

C:\CIVIL 3D PROJECTS\2017_002\000 DOT KAL HWY RESURFACING POALIMA TO HULU\01 CE DWG\R54 EVC TRAFFIC COUNTING SYSTEM SENSOR DETAILS.DWG 11/3/2020 6:36 PM

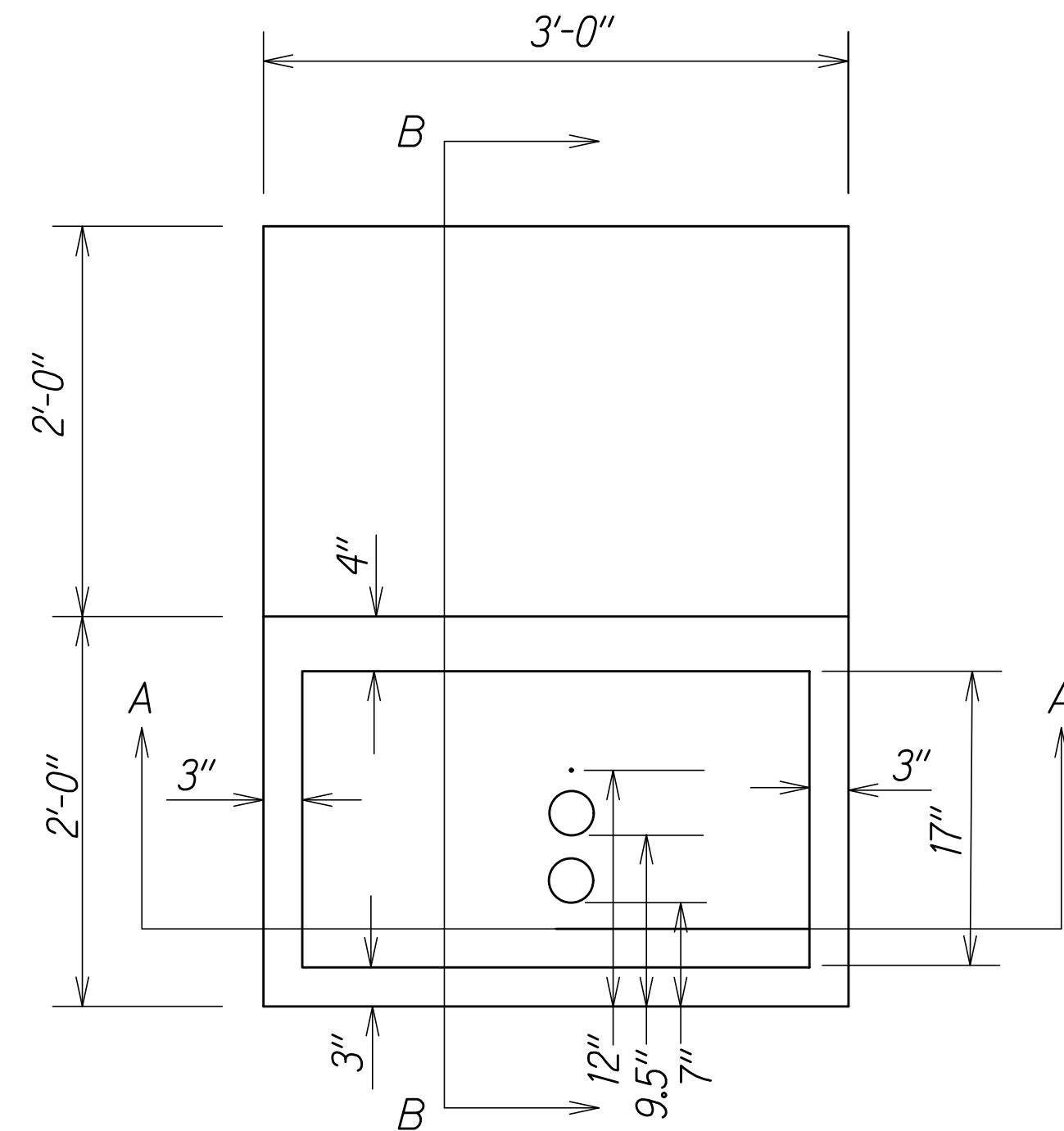
FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(059)	2021	138	243



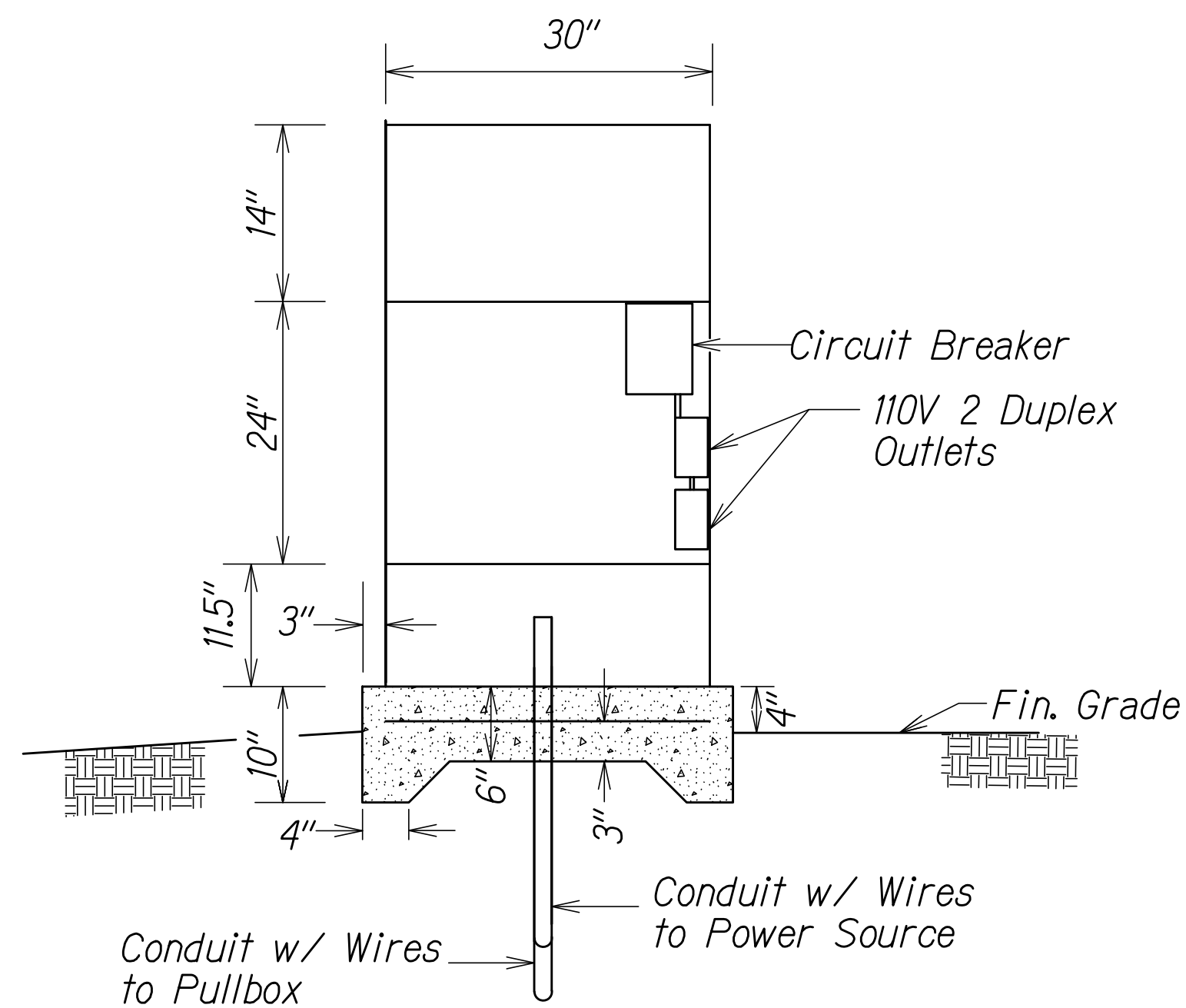
EXIST. A.C. PAVEMENT RESTORATION DETAIL
NOT TO SCALE

NOTES:

1. Mount type M-1 cabinet slab and secured with bolts and nuts.
2. Concrete slab shall be poured in place.
3. Connect 110 VAC power to dual outlet boxes mounted on inside wall of the cabinet.
4. The Contractor shall furnish the State key(s) to the cabinet.
5. Provide #8 copper wire ground terminal to the cabinet.
6. Mount one 10 pin terminal board on inside of cabinet.
7. All conduits shall be steel or PVC schedule 80.

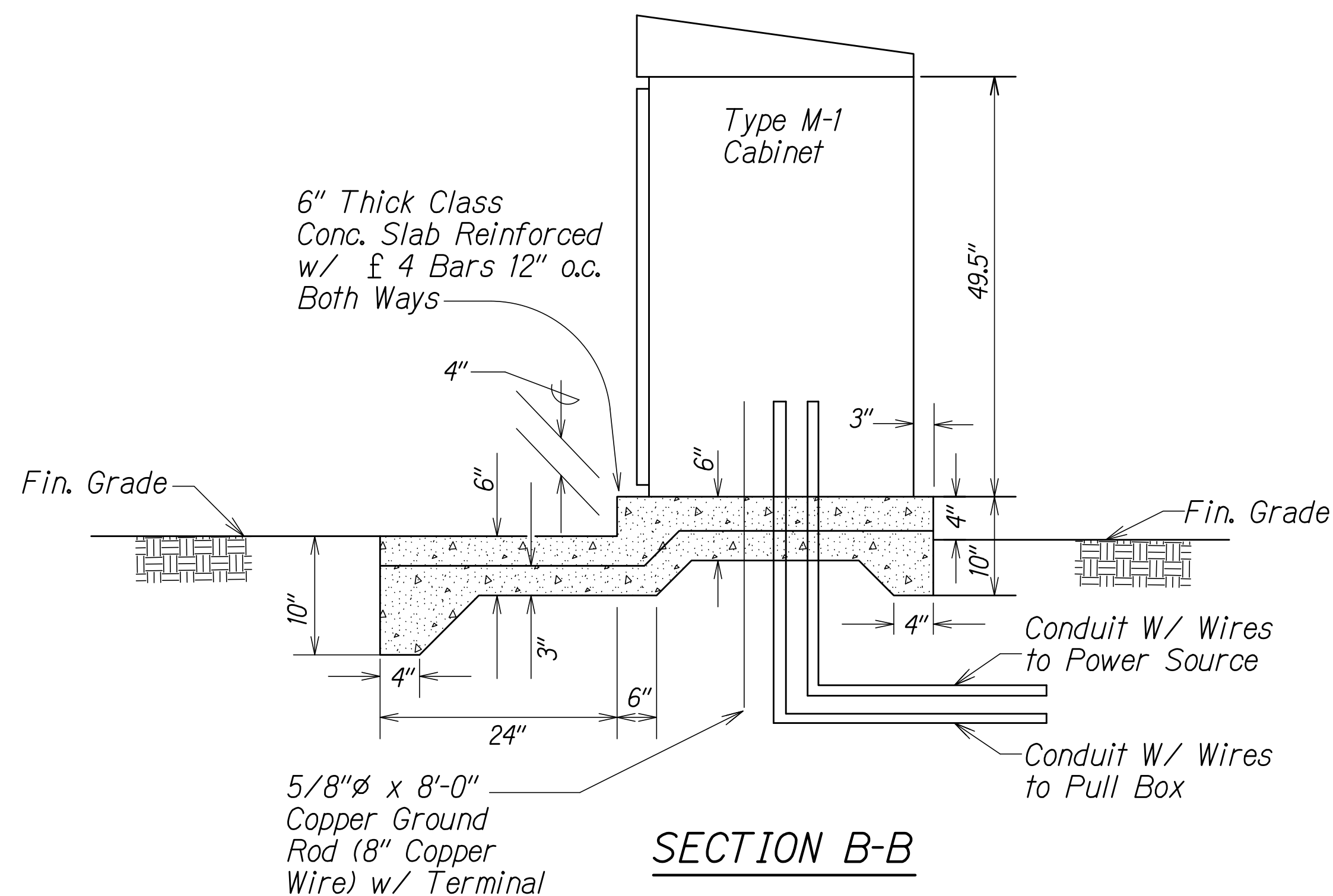


PLAN



SECTION A-A

TYPE M-1 CABINET DETAIL
NOT TO SCALE



SECTION B-B

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EVC TRAFFIC COUNTING SYSTEM CABINET
FOUNDATION AND OTHER DETAILS
KALANIANA'OLE HIGHWAY IMPROVEMENTS PHASE 2
Poalima Street to Vicinity of Makai Pier
Federal-Aid Project No. NH-072-1(059)

Scale: NTS Date: January 2021

SHEET No. R55 OF 66 SHEETS

