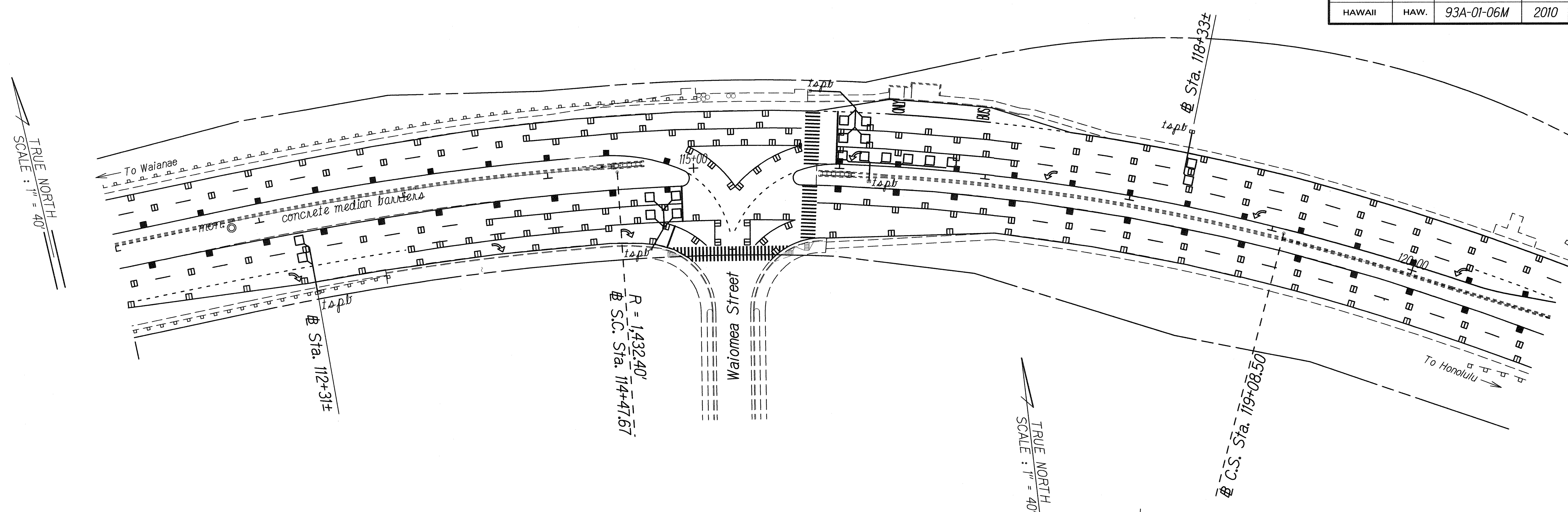
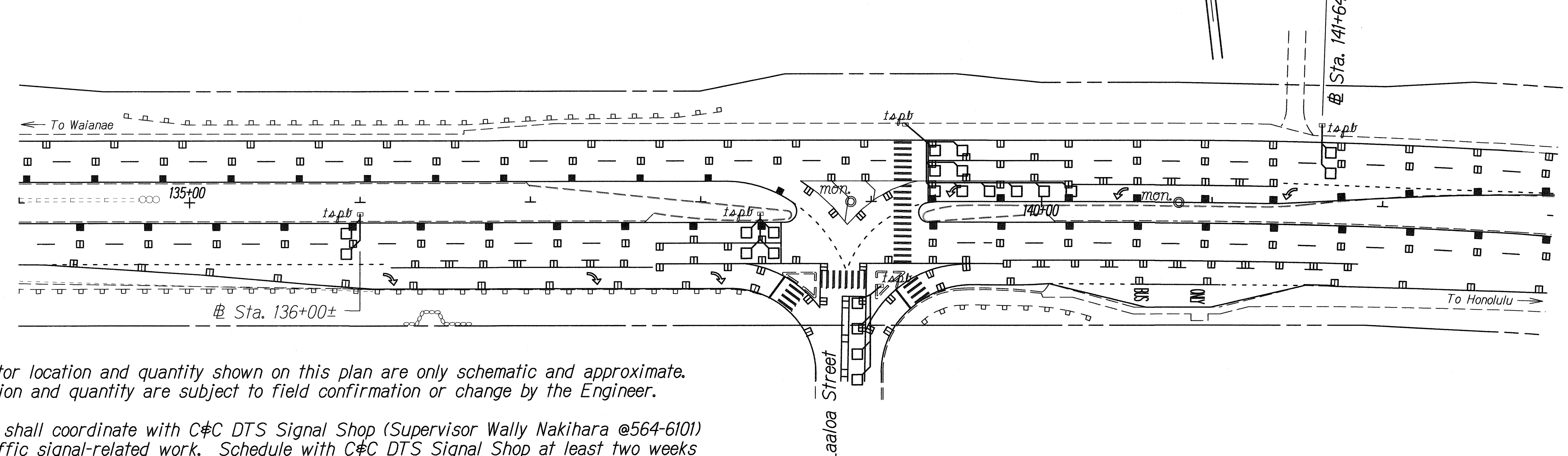
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-01-06M	2010	35	36





NOTES:

1. Loop detector location and quantity shown on this plan are only schematic and approximate. Final location and quantity are subject to field confirmation or change by the Engineer.

2. Contractor shall coordinate with C&C DTS Signal Shop (Supervisor Wally Nakihara @564-6101) for all traffic signal-related work. Schedule with C&C DTS Signal Shop at least two weeks in advance of any work affecting traffic signal operation, e.g., material purchase or pavement cold planing.

3. Contactor shall perform all necessary traffic signal work to temporarily maintain and permanently restore traffic signal operation. Such work includes, but not limited to, installing temporary microwave sensors and new detector loops. DTS Signal Shop personnel will be responsible for the traffic signal controller programming at the traffic signal cabinet.

4. Contractor shall promptly take down and turn over temporary microwave sensors to DTS when permanent detector loops are installed and operational.

5. Contractor shall perform all necessary work to restore traffic signal system to a neat tradesman-like appearance.

ORIGINAL PLAN — SURVEY PLOTTED BY / DRAWN BY / TRACED BY / DESIGNED BY / QUANTITIES BY / CHECKED BY — NOTE BOOK — DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

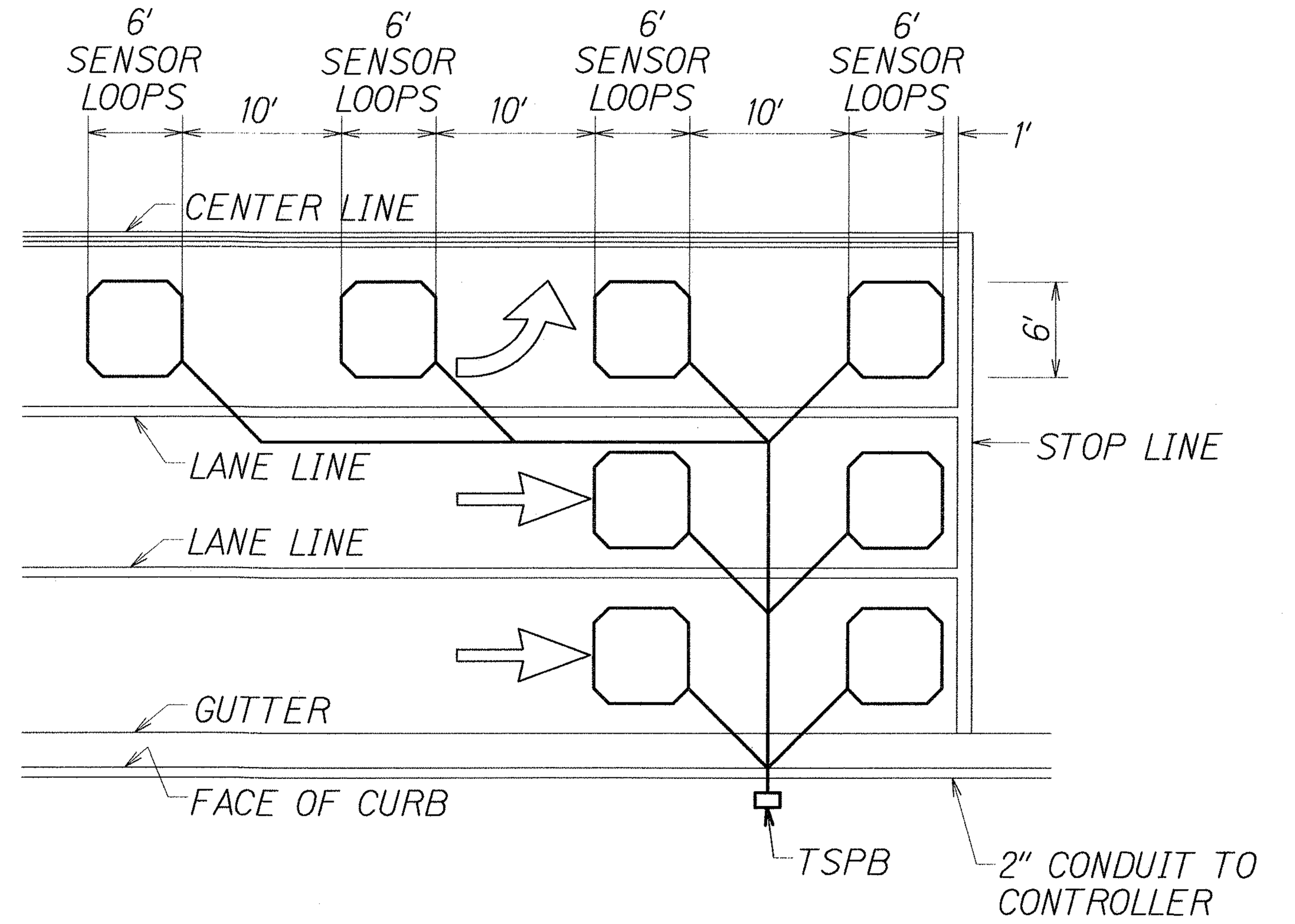
PAVEMENT MARKING AND SIGNING PLAN

FARRINGTON HIGHWAY
PAVEMENT PREVENTIVE MAINTENANCE
Keananoio Bridge to Palailai Interchange
Project No. 93A-01-06M

Scale: 1" = 40' — Date: March, 2010

SHEET No. T13 OF 14 SHEETS

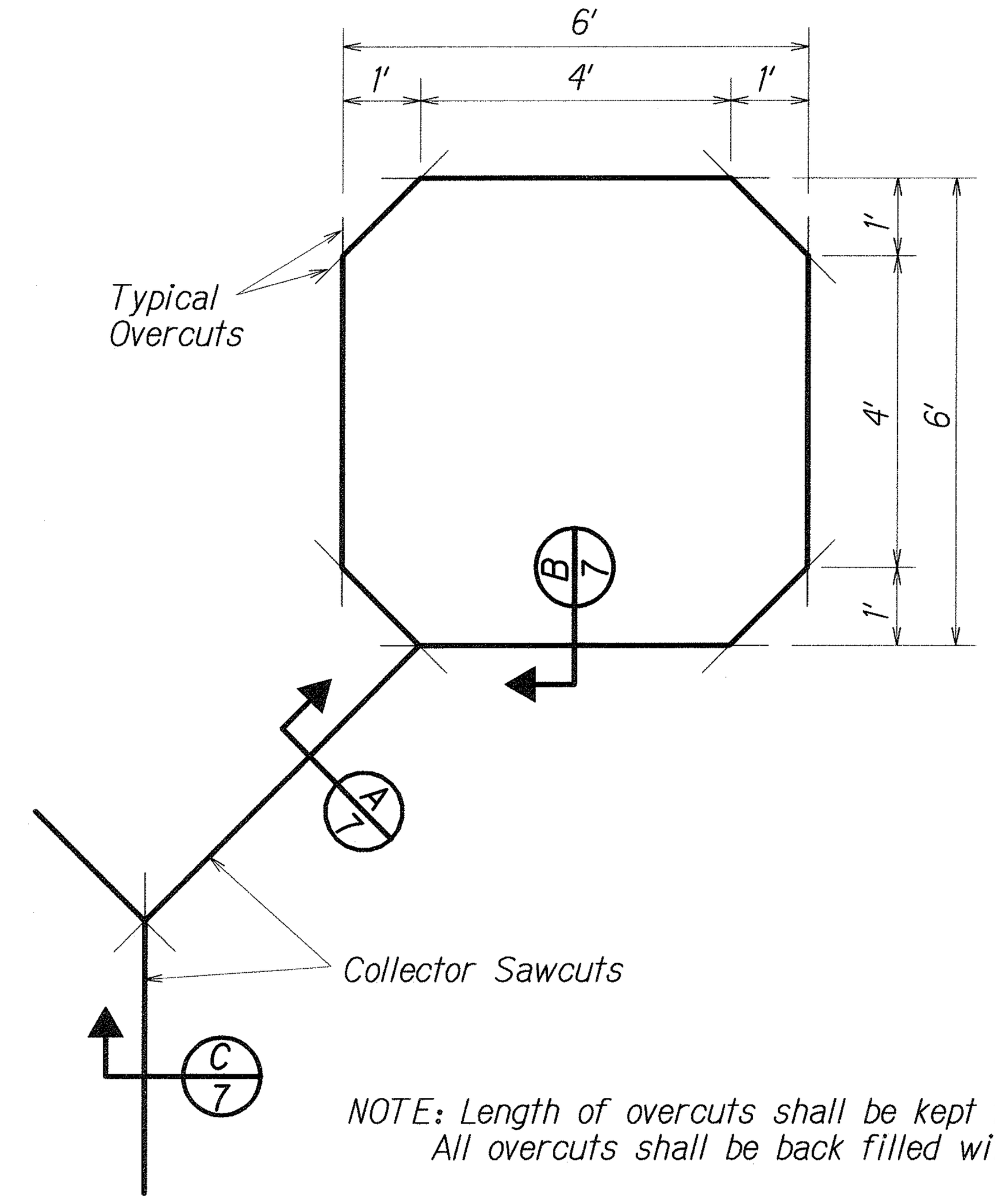
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-01-06M	2010	36	36



NOTES:

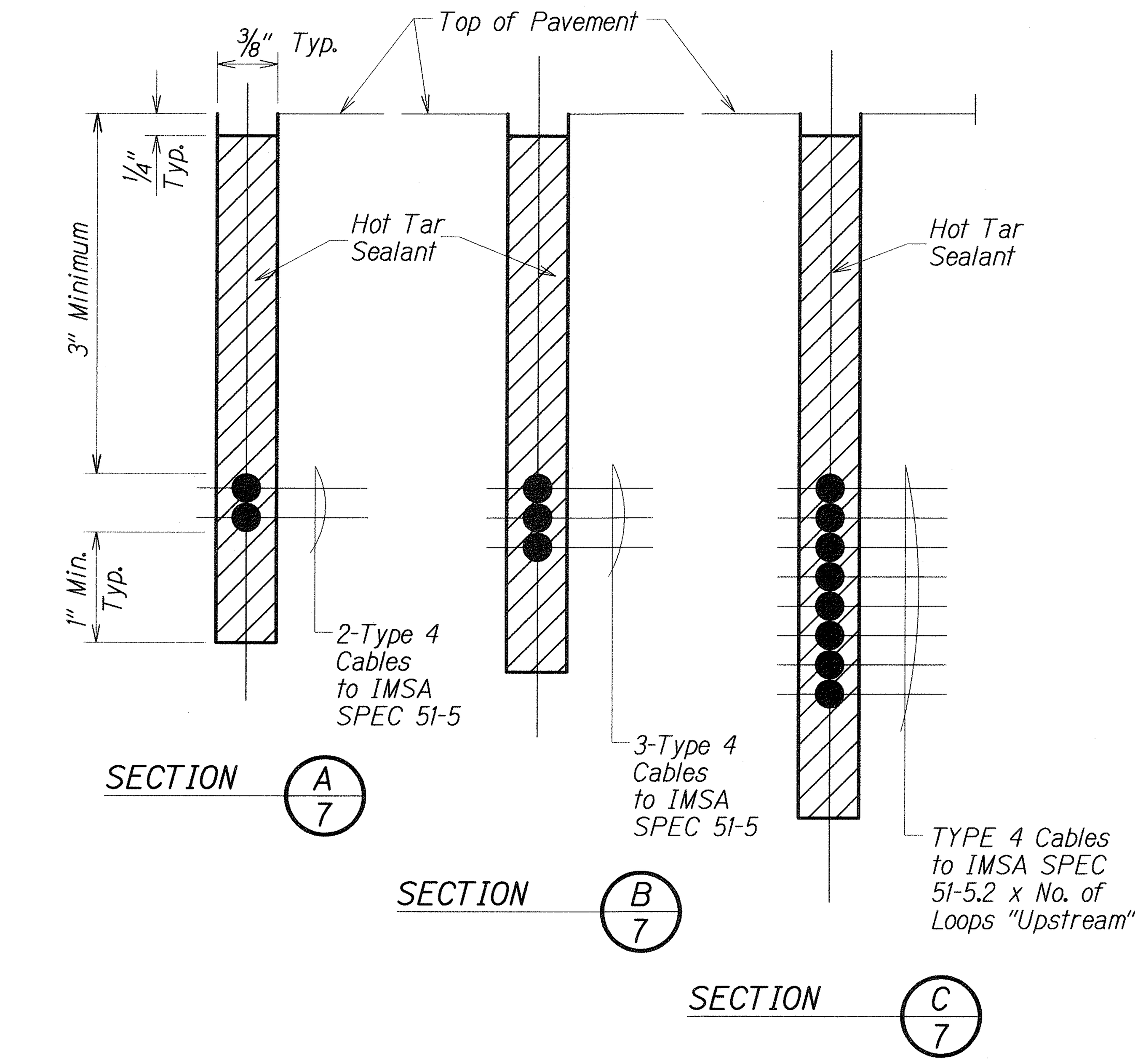
1. Center sensor loops in lanes.
2. Collector cables shall be twisted 2 turns per foot.
3. Number of loops and locations vary. See project plans.
4. Number and locations of collector sawcuts may be varied in the field to suit.

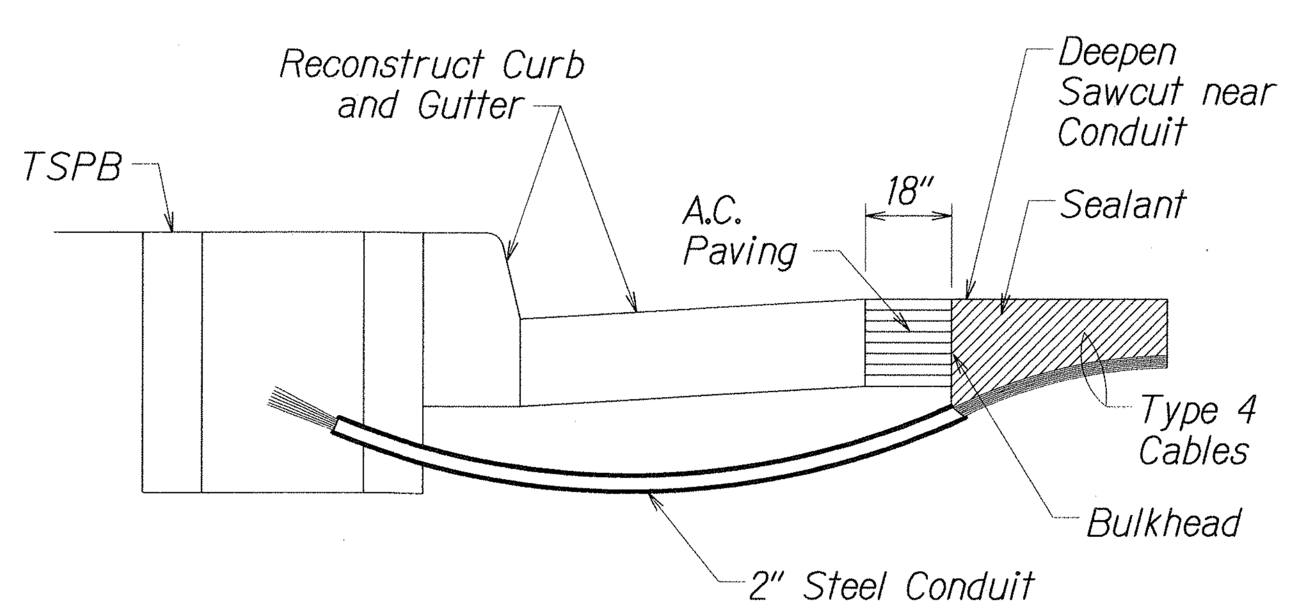
TYPICAL SENSOR LOOP LAYOUT



NOTE: Length of overcuts shall be kept to a minimum. All overcuts shall be back filled with hot tar.

TYPICAL SENSOR LOOP SAWCUT DETAIL

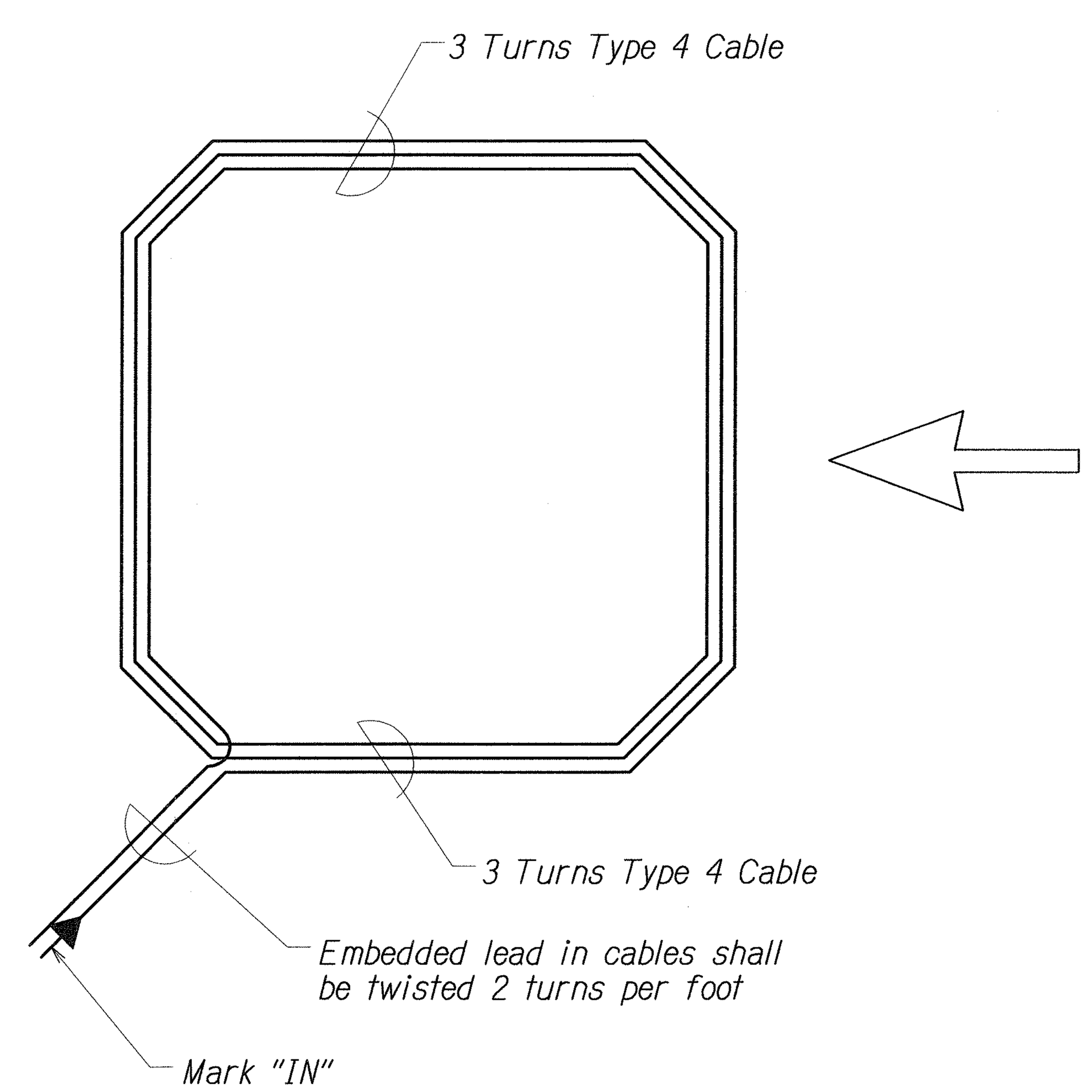




NOTES ON CONSTRUCTION AT END OF SAWCUT

1. Seal roadway end of conduit after installation of conductors.
2. Install bulkhead across conduit trench.
3. Place hot tar in sawcut.
4. Backfill over conduit with new A.C.
5. Reconstruct curb and gutter as required.

DETAIL OF SENSOR LOOP INSTALLATION AT EDGE OF ROADWAY



TYPICAL SENSOR LOOP WIRING DIAGRAM

TYPES OF CABLES

TYPE 1	Signal Loop Cable: Stranded No. 14, 26 conductors
TYPE 2	Detector Lead-In Cable and Pedestrian Push Button Circuit Cable: Stranded, No. 14, 2 Conductors
TYPE 3	Interconnect Cable: Solid No. 20, 12 Pairs
TYPE 4	Loop Sensor Cable: Solid No. 12, Single Conductor to IMSA SPEC 51-5
TYPE 5	Cable from Signal Loop to Signal Head: Stranded, No. 14, Single Conductor
TYPE 6	Service Cable: Solid, No. 6, 3 Conductors

ORIGINAL PLAN

SURVEY PLOTTED BY ____ DATE ____
DRAWN BY ____
TRACED BY ____
DESIGNED BY ____
QUANTITIES BY ____
CHECKED BY ____
NOTE BOOK No. ____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

FARRINGTON HIGHWAY
PAVEMENT PREVENTIVE MAINTENANCE
Keananoio Bridge to Palailai Interchange
Project No. 93A-01-06M

Not to Scale   Date: March, 2010

SHEET No. T14 OF 14 SHEETS