

- I. Traffic monitoring site cabinet includes:
- A. One adjustable shelf;
- B. One backplane ass'y;
- C. One JI receptacle with mounting bracket;
- D. All associated wiring and wiring harnesses.
- 2. Basic backplane assembly consists of:
- A. Two inductive loop terminal strips;
- B. One vehicle sensor terminal strip;
- C. One battery terminal strip;

Backplane for

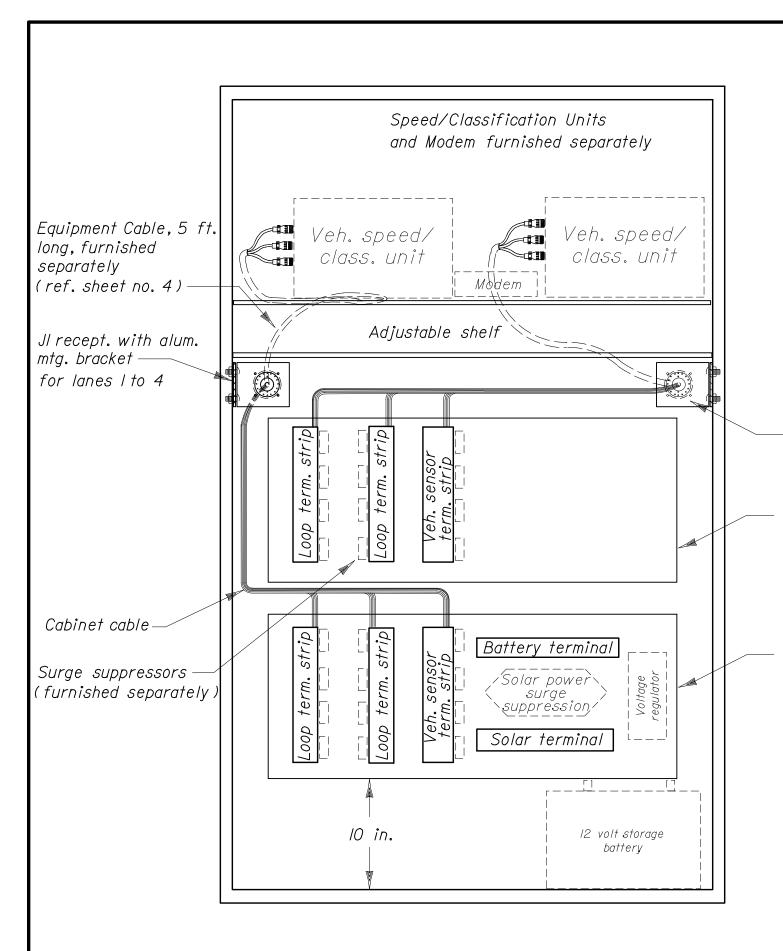
lanes I to 4

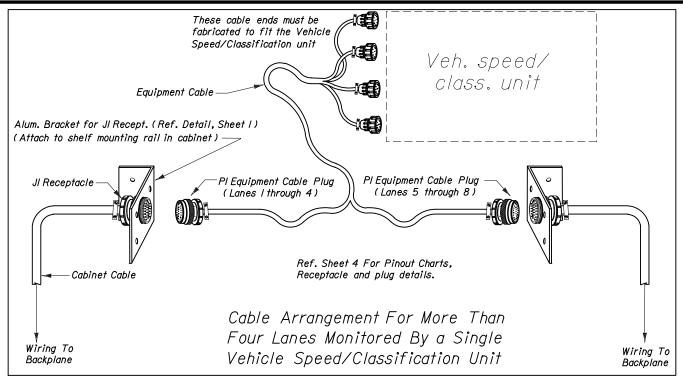
- D. One solar panel terminal strip.
- 3. When piezoelectric axle sensors are used, the shields must be connected to earth ground.

CABINET LAYOUT DETAIL (For Up To Four Lanes)

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| Drawn By | | | Revision | Sheet No. | Index No. |
| Checked By | | | 00 | l of 9 | 17900 |





JI recept. with alum. mtg. bracket for lanes 5 to 8

Backplane for lanes 5 to 8 (Does not require battery terminal, solar terminal, voltage regulator, or solar power surge suppressor.)

Backplane for lanes I to 4

- I. Traffic monitoring site cabinet includes:
- A. One adjustable shelf;
- B. Two backplane assemblies (equipped as shown);
- C. Two JI receptacles with mtg. brackets;
- D. All associated wiring and wiring harnesses.
- 2. Basic backplane assembly consists of:
- A. Two inductive loop terminal strips;
- B. One vehicle sensor terminal strip;
- C. One battery terminal strip;
- D. One solar panel terminal strip.
- 3. When piezoelectric axle sensors are used, the shields must be connected to earth ground.

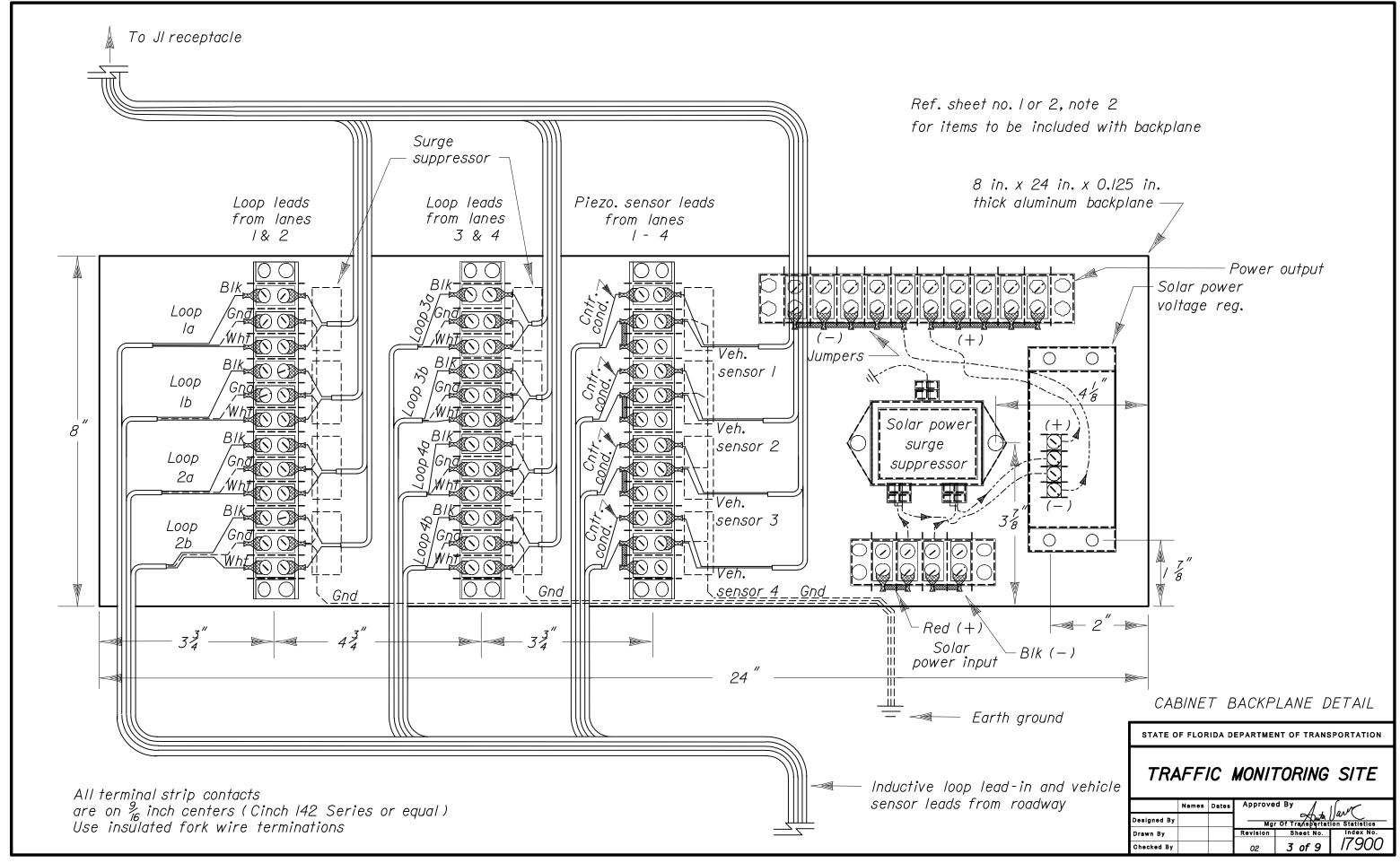
CABINET LAYOUT DETAIL

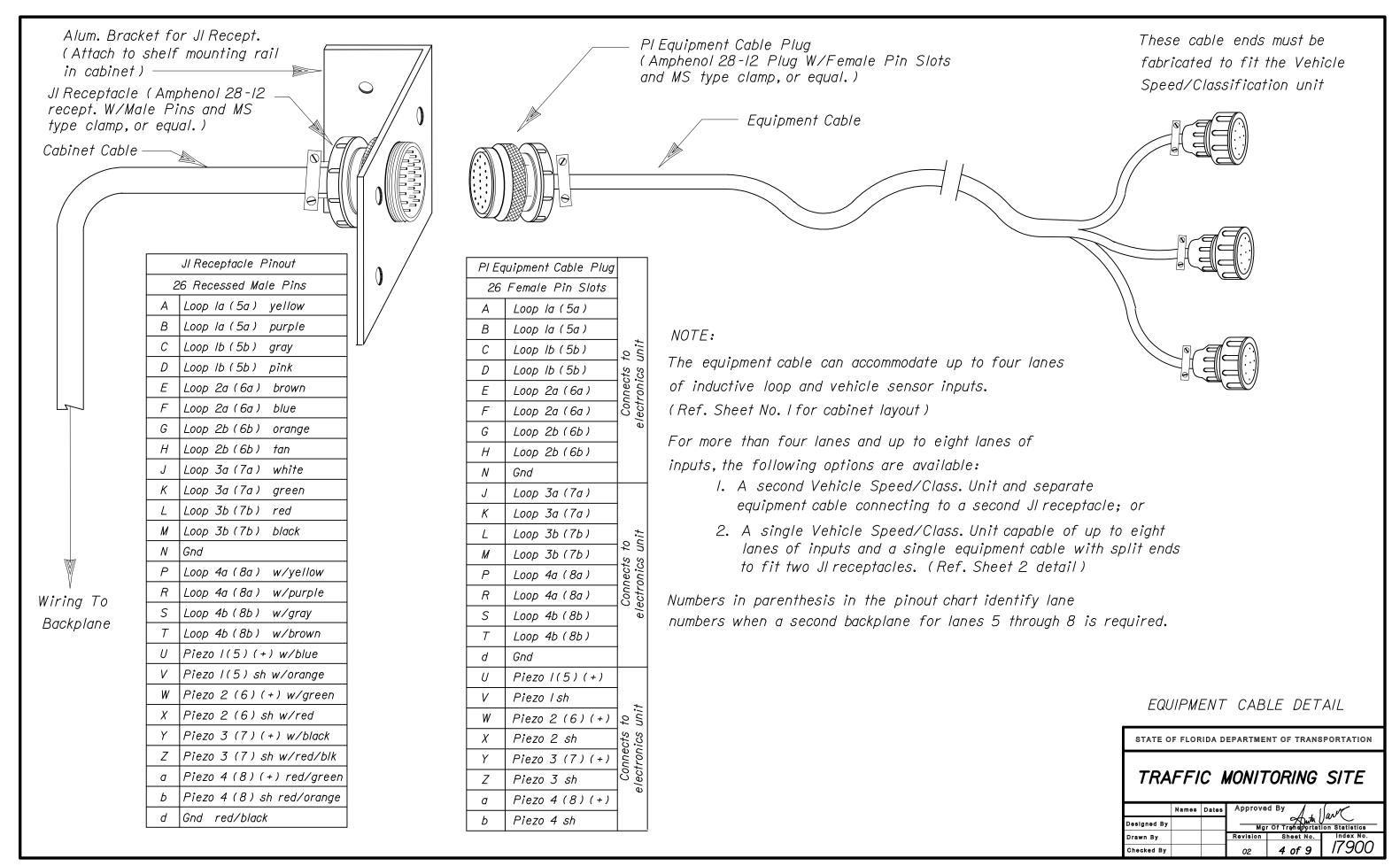
(For More Than Four Lanes

And Up to Eight Lanes)

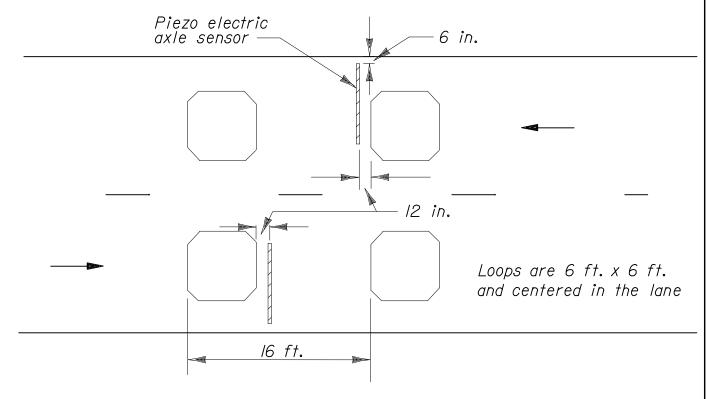
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TRAFFIC MONITORING SITE LOOP ASSEMBLY WITH AXLE SENSOR PLACEMENT DETAIL



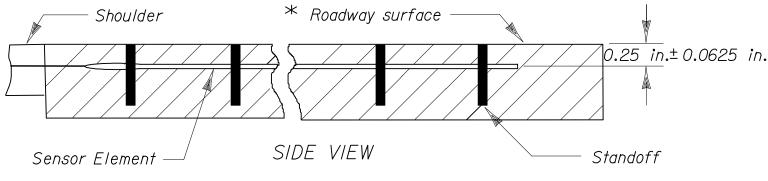
Note:

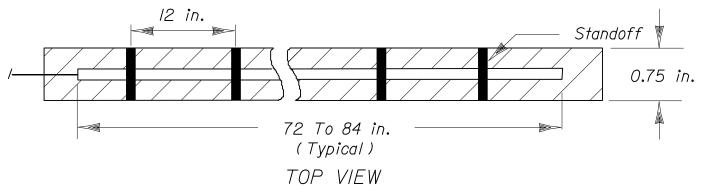
Loop slots shall be 0.25 inches wide (approx.) by 1.5 inches to 2 inches deep. Three turns of #12 AWG, type XHHW stranded copper wire shall be placed in the slot. Backer rod shall be used to hold the loop wire in the bottom of the slot.

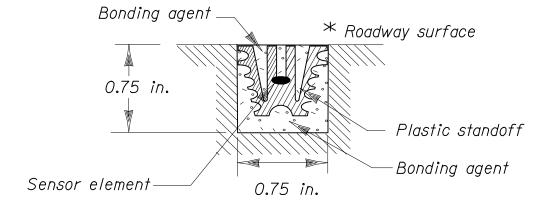
Loop leads shall be twisted at the rate of 10 to 12 twists per foot. The twisted pair shall extend to the pull box with three feet of spare length coiled in the pull box.

All leads (inductive loop & vehicle sensor) shall be identified according to the lane numbering convention shown on sheet 8 and 9.

TYPICAL UNENCAPSULATED CLASS II VEHICLE SENSOR







END VIEW

* Some installations may require axle sensors to be placed in the structural course, prior to placement of the friction course.

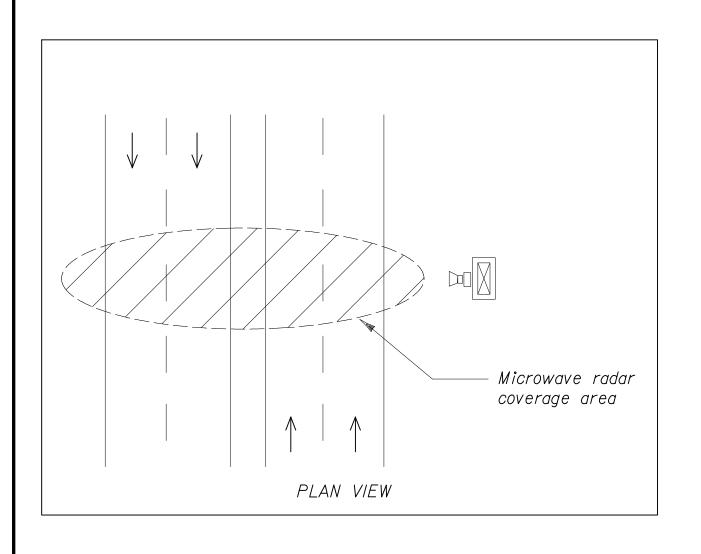
Note:

These are typical dimensions. actual dimensions, element cross-sections and standoffs may vary depending on manufacturer and model.

LOOP AND PIEZOELECTRIC VEHICLE SENSOR DETAIL

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| Drawn By | | | Revision | Sheet No. | Index No. |
| Checked By | | | 02 | 5 of 9 | 17900 |



Microwave Radar Vehicle Sensor (Type II Vehicle Sensor - Typical Mounting)

Mounting height must be adjusted to optimize the unit's coverage area.

Drill a $\frac{1}{2}$ to $\frac{5}{8}$ inch dia. hole in the pole for sensor lead access. Pull leads through pole cavity and into the cabinet.

min.

The unit must be capable of detecting up to eight lanes of traffic (in either or both directions) when

Coverage area of the unit is affected by the roadway geometry: distance from the travel lanes, median type and width, barrier walls, etc.

mounted perpindicular to the roadway.

*
Mounting height of the unit and offset from the roadway must be determined on a site-by-site basis.
5' is the minimum operable offset and not a standard.

ROADWAY

Solar Power Pole -

TYPE II VEHICLE SENSOR
MICROWAVE RADAR

16' - 23'

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| Checked By | | | 00 | 6 of 9 | 17900 | |

