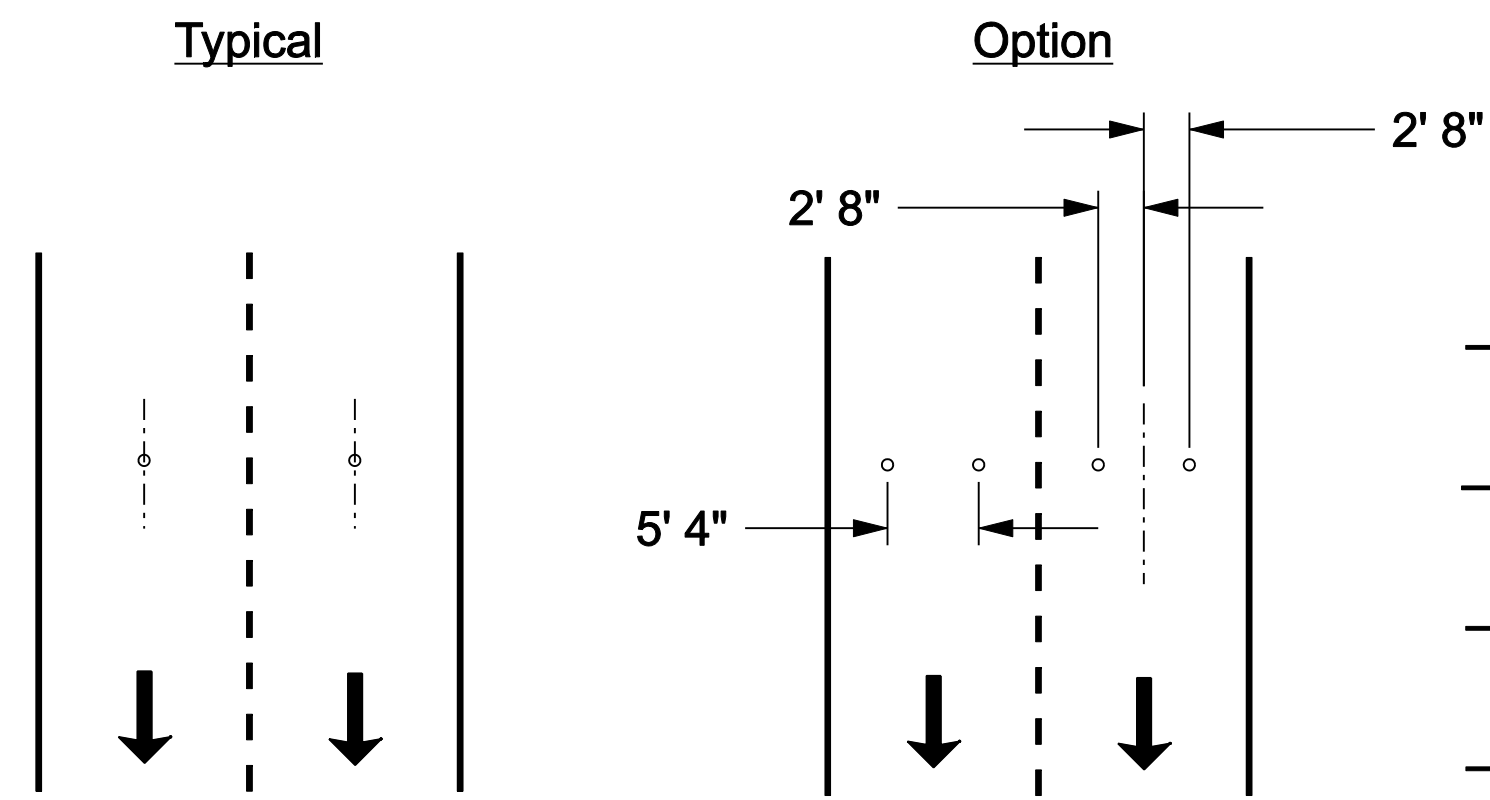
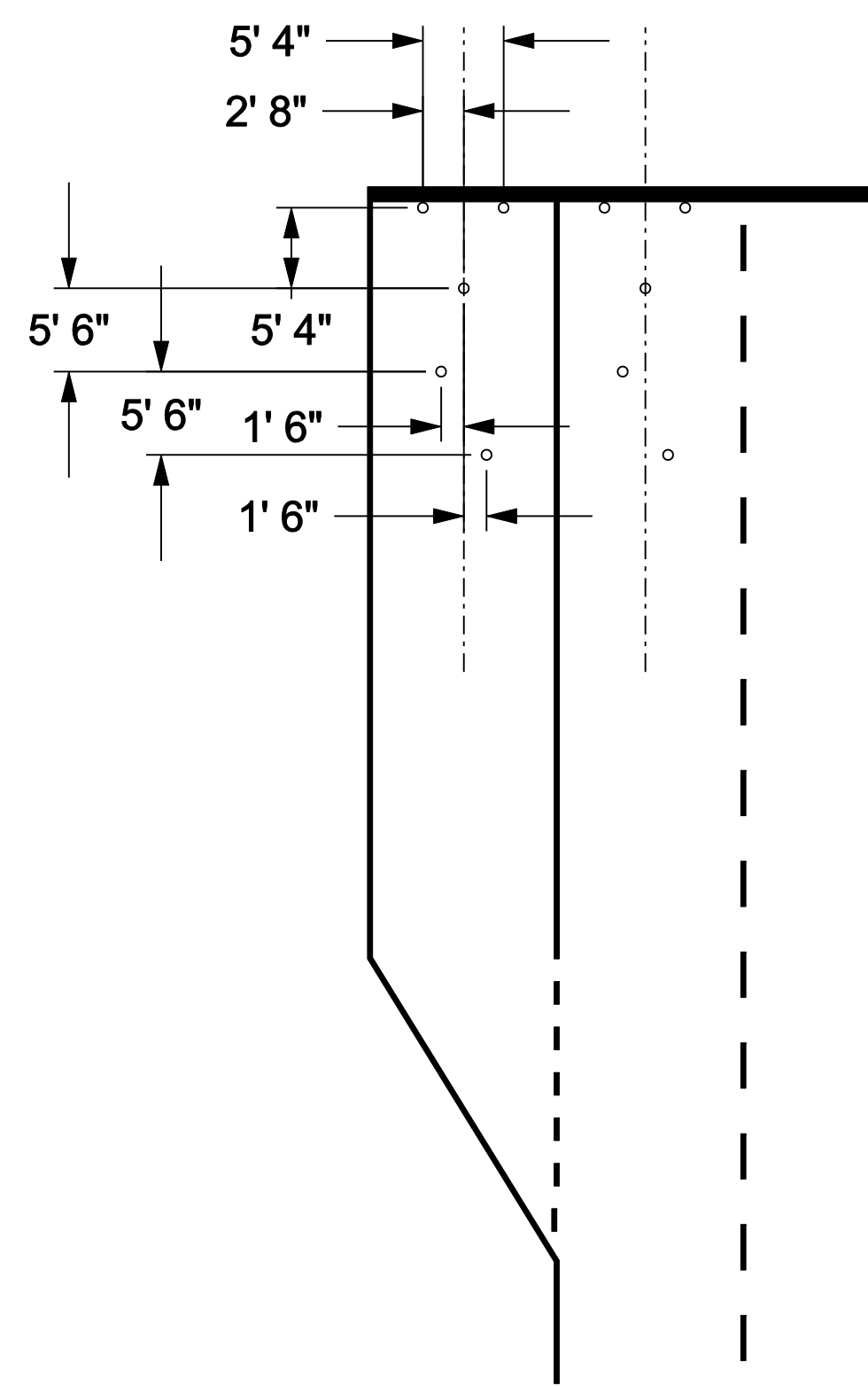


Installation recommendations for use of the Sensys Inroad vehicle detection system

Pulse Detection



Presence Detection Typical



Notes:

- 1) On pulse detection installations, for approach speeds greater than 40 MPH, shall place intermediate set of detectors 2 - 1/2 sec. from stop bar. See pulse loop set back table.
- 2) On pulse detection installations, for approach speeds greater than 40 MPH, an additional repeater may be required to collect and transmit data back to the access point.
- 3) When used for pulse detection place the sensors in the center of the travel lane. (An optional installation of 2 sensors per lane may be placed perpendicular to traffic flow, spaced 5' - 4" apart center - to - center, centered in the travelway of the lane).
- 4) When used for presence detection, the first 2 detectors shall be placed 5' 4" apart center to center, centered in the travelway on the back edge of the stop bar. The next sensor shall be located 5' 4" behind the pair, centered in the roadway. Two additional sensors shall be installed alternating 1' 6" off center line L & R, 5" 6" down from previous sensor. To increase presence detection zone add sensors 5' 6" down from the previous sensor 1' 6" to the opposite side of the center of the roadway as the previous sensor.

- 5) Additional repeaters may be required depending on the location of the access point and roadway geometry.
- 6) Repeaters shall be mounted on spun aluminum pedestal poles, at a minimum of 12 ft. above the roadway sensors.
- 7) Core drill 4" diameter hole, 2 1/4" deep per sensor.

Speed MPH	L 1 2-1/2 sec. (Ft.)	L 2 5.0 sec. (Ft.)
25	N/A	183
30	N/A	220
35	N/A	257
40	(147)opt.	294
45	165	330
50	183	367
55	202	404
60	220	440
65	238	476
70	257	514

CONTRACT NO.		TITLE	
APPROVALS	DATE	Typical Sensor Layout for Sensys VDS 240 Sensors	
DRAWN E.A.	1/23/09	SIZE D	DWG NO. MBD 2009-01
CHECKED		SCALE	REV.
ENGR		CALC. WT	ACT. WT
DESIGN ACTIVITY		SHEET 1 of 1	