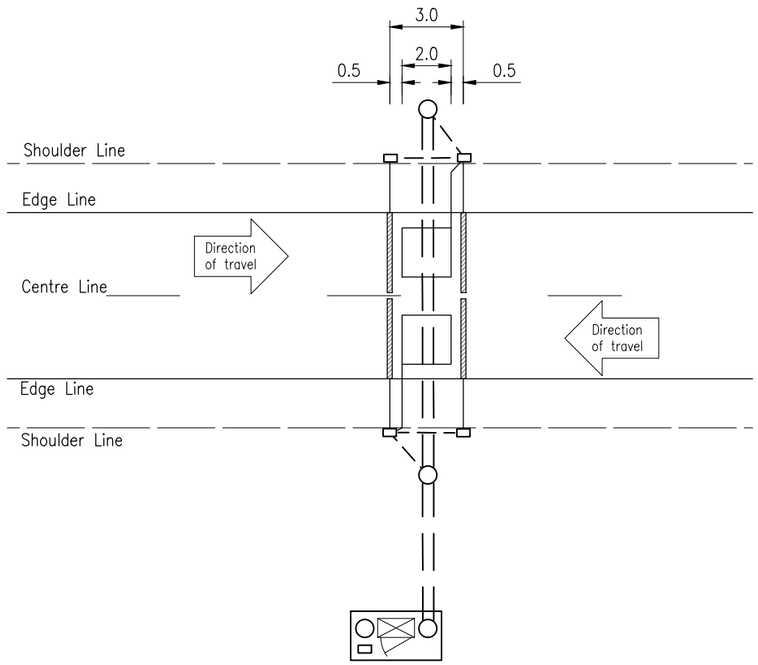
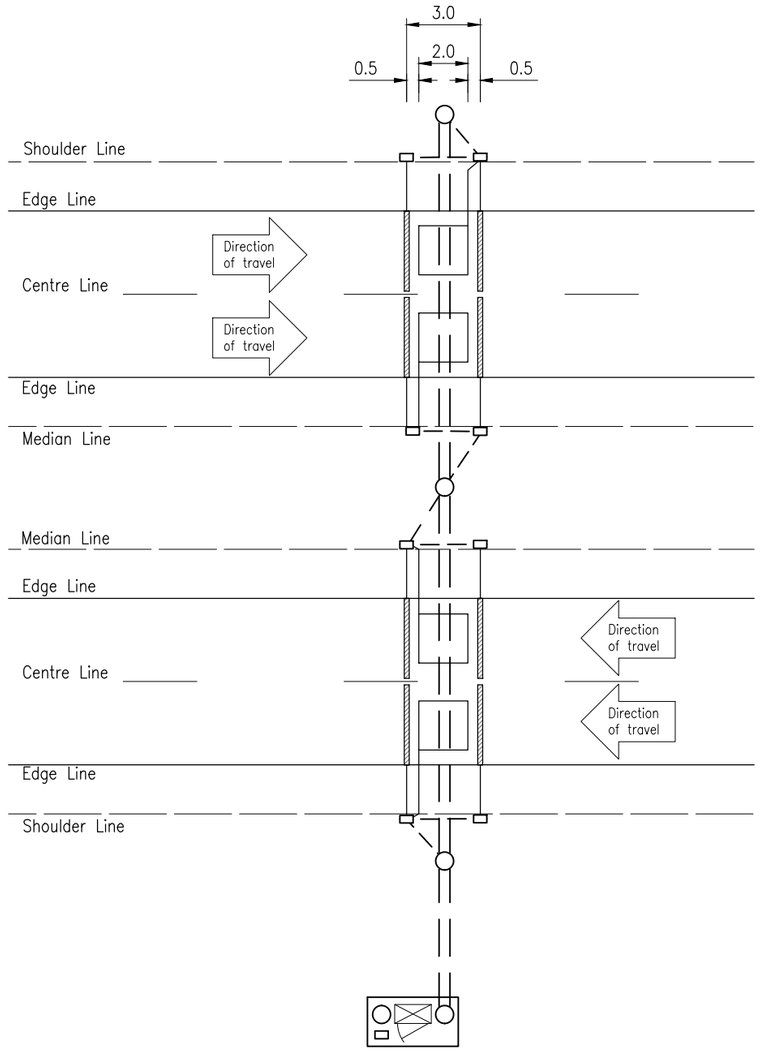
LEGEND

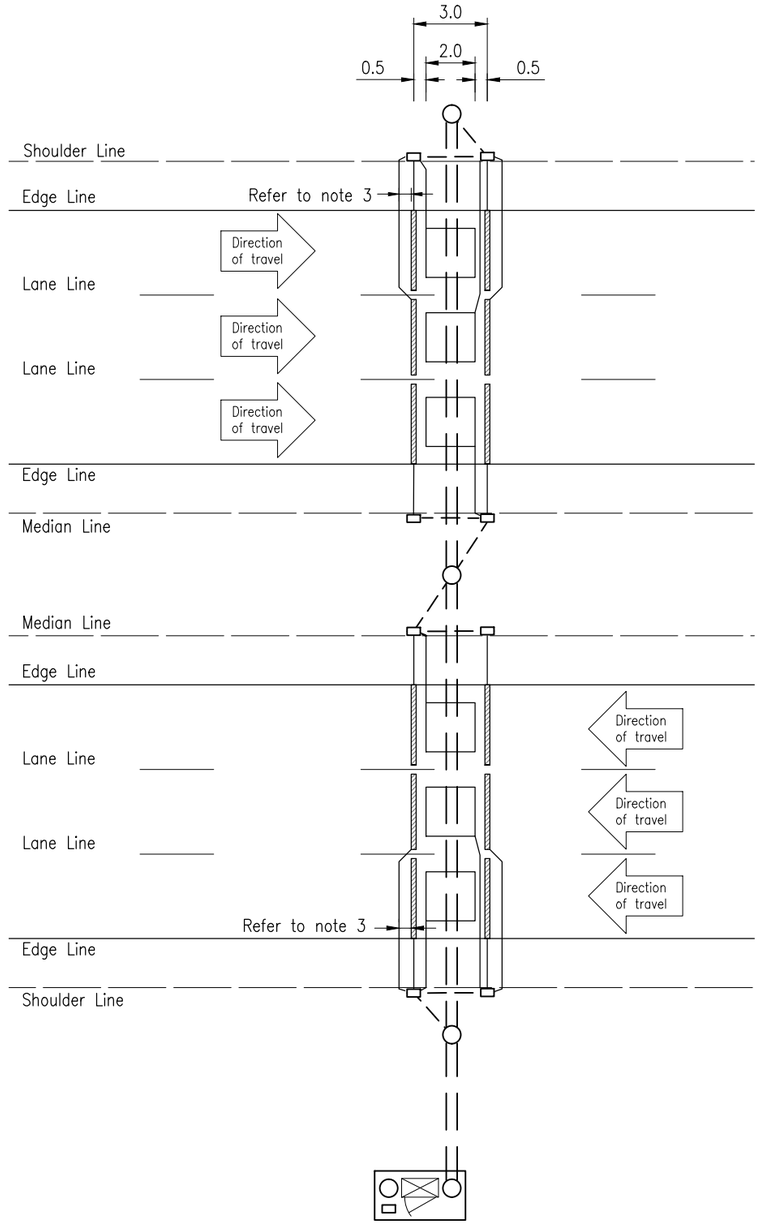
SYMBOL	DESCRIPTION
	Field Cabinet
	Type 3 Pit
	Circular Pit
	1x100 dia conduit (White)
	2x100 dia Conduit (White)
	Cabinet concrete pad Refer standard drawings 1924 and 1925
	2m x 2m Loop
	Piezo Sensor



PIEZO–LOOP–PIEZO CONFIGURATION
SINGLE CARRIAGEWAY BI–DIRECTIONAL



PIEZO–LOOP–PIEZO CONFIGURATION
DUAL CARRIAGEWAY
2–LANE



PIEZO–LOOP–PIEZO CONFIGURATION
DUAL CARRIAGEWAY
3–LANE

REFER TO SHEET 2 FOR CONFIGURATION AND PLACEMENT NOTES

INSTALLATION OF CONDUITS AND PITS IS THE RESPONSIBILITY OF THE LICENSED ELECTRICAL CONTRACTOR

Department of Transport and Main Roads

ITS

AXLE–BASED VEHICLE CLASSIFIER
SENSOR CONFIGURATION
PIEZO–LOOP–PIEZO
SHEET 1 OF 2

Queensland Government

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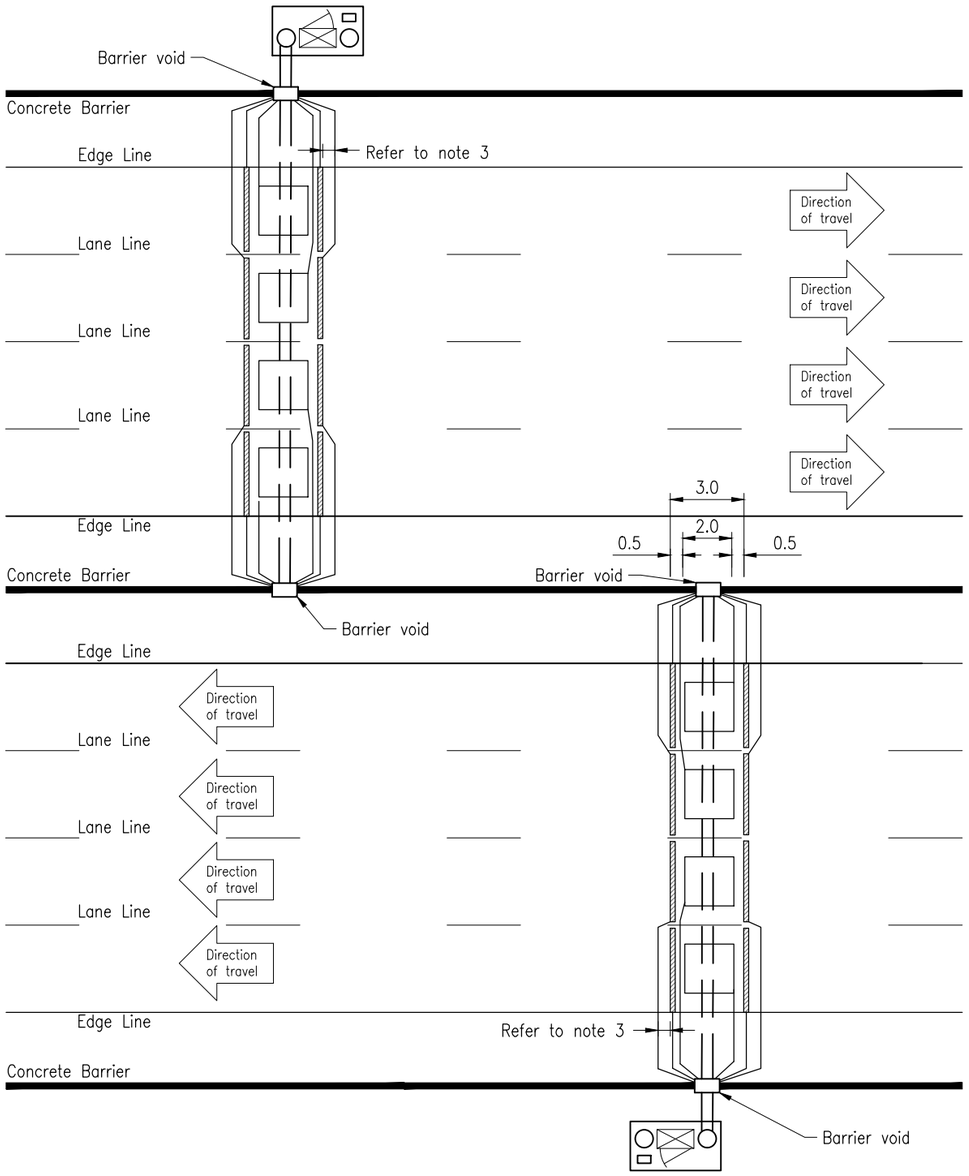
A3

Not to Scale

Standard Drawing No
1918
Date 3/2023

A | B



PIEZO–LOOP–PIEZO CONFIGURATION
DUAL CARRIAGEWAY
4–LANE

LEGEND

SYMBOL	DESCRIPTION
	Field Cabinet
	Type 3 Pit
	Circular Pit
	1x100 dia conduit (White)
	2x100 dia Conduit (White)
	Cabinet concrete pad Refer standard drawings 1924 and 1925
	2m x 2m Loop
	Piezo Sensor

NOTES:

1. Only 1 cabinet may be used if the longest sensor cable length is ≤ 100m, otherwise 2 cabinets are required.
2. Refer to SD1916 for sensor installation details and loop characteristics.
3. Where possible, there shall be a minimum 500mm gap between slots cut for loops, piezo sensors and tails.
4. Loop detector and feeder cables are to be joined in pits. Joints are to be separately insulated and sealed to prevent ingress of water.
5. All loop feeder cables routed via any shared path (conduit or slot) must be terminated to the same detector card to avoid inter–card crosstalk.
6. Dimensions shown are in metres (m) unless noted otherwise.

ASSOCIATED DEPARTMENTAL DOCUMENTS:
- Standard Drawings
- Specifications

REFERENCED DOCUMENTS:
Departmental Standard Drawings:
- 1916 ITS – Axle–Based Vehicle Classifier Sensor Installation Details
- 1922 ITS – Vehicle Classifier Cabinet Details – Solar Powered
- 1923 ITS – Vehicle Classifier Cabinet Details – Mains Powered
- 1924 ITS – Vehicle Classifier Cabinet Installation – Solar Powered
- 1925 ITS – Vehicle Classifier Cabinet Installation – Mains Powered

Departmental Specifications:
- MRTS200 General Requirements for Intelligent Transport Systems (ITS) Infrastructure
- MRTS201 General Equipment Requirements
- MRTS207 Traffic Survey Foundation Equipment
- MRTS251 Traffic Counter/Classifier

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Department of Transport and Main Roads

ITS

AXLE–BASED VEHICLE CLASSIFIER
SENSOR CONFIGURATION
PIEZO–LOOP–PIEZO
SHEET 2 OF 2

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