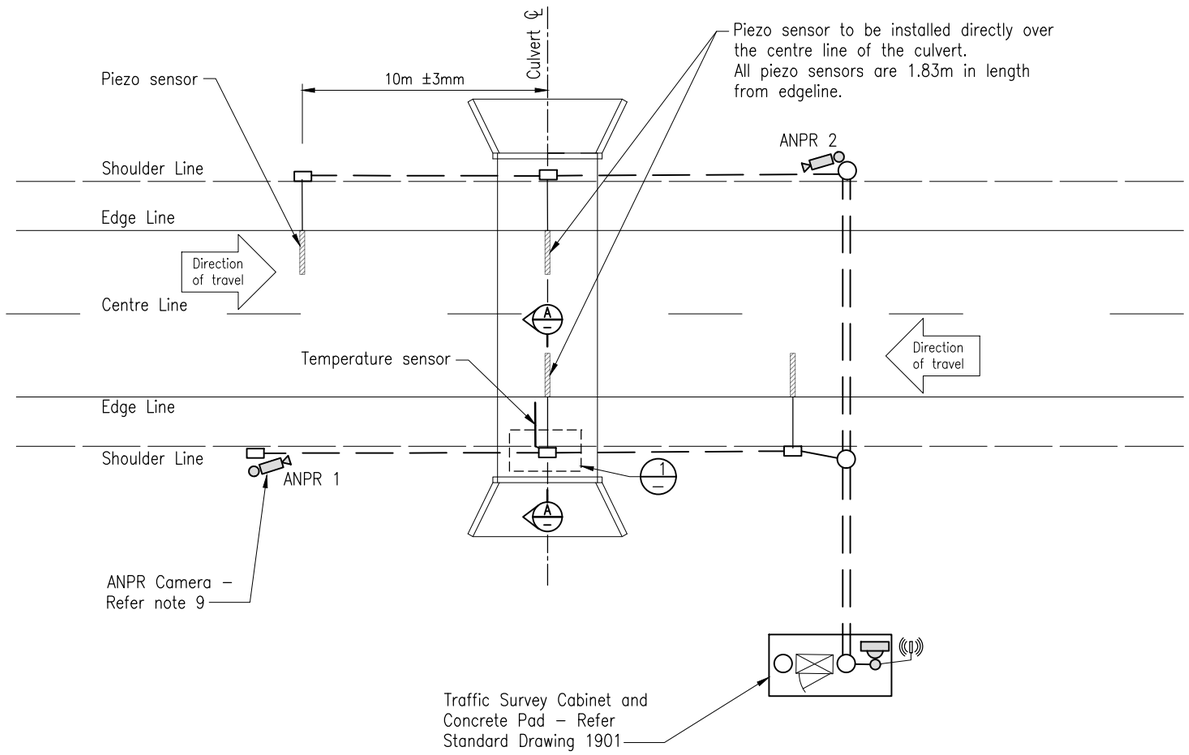


LEGEND

SYMBOL	TYPE
	ANPR Camera with pole
	PTZ Dome Camera with pole
	Antenna
	Traffic Survey Cabinet

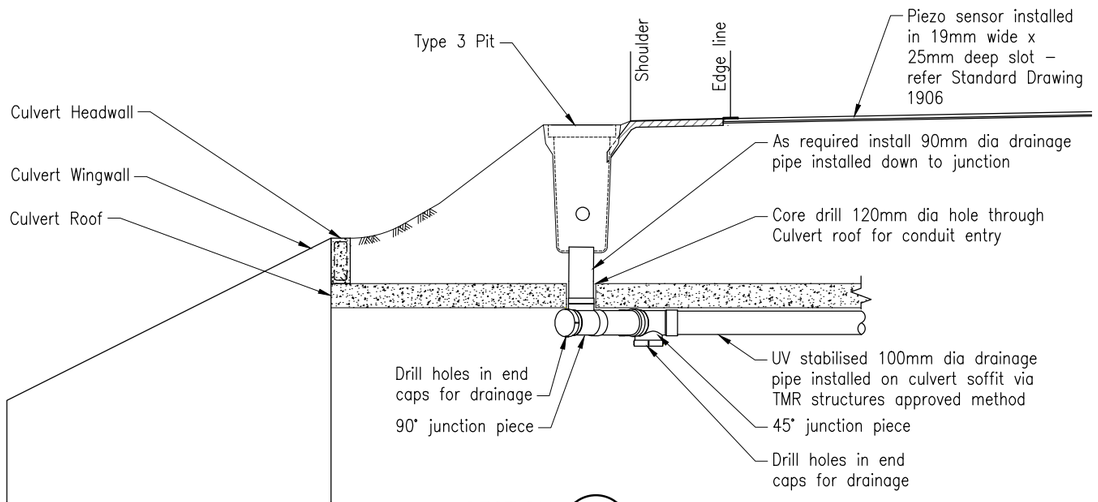
NOTES:

1. The piezo sensor can be a brass linguini (BL) piezo sensor of 1.83m in length. Refer Standard Drawing 1906 for installation details.
2. The piezo sensor is to be assembled and tested prior to delivery at site.
3. All slots for piezo sensors shall be cut to nearest pit.
4. Piezo sensors shall be installed perpendicular to the centre line of the road.
5. Spacing between leading and trailing piezo sensors shall be 10m ± 3mm.
6. Trailing piezo sensor must be installed directly over the centre line of the culvert.
7. Refer manufacturer's instructions for strain gauge and piezo sensor installation requirements and parameters.
8. Considerations for installation requirements of common or single cell strain gauge configurations shall be determined by site conditions and manufacturer's specifications.
9. Refer Standard Drawing 1906 for ANPR camera placement details, if ANPR is required.
10. The traffic survey cabinet and concrete pad shall be installed clear of flood levels.
11. Contractor shall follow TMR Structures approved methods and procedures regarding core drilling holes through culvert soffit.
12. Method to affix conduits and enclosures on culvert soffit must be approved by TMR Structures prior to installation.
13. Conduit assembly on the culvert soffit shall be joined by slide fit only, i.e. must not be glued.
14. All dimensions in metres unless noted otherwise.

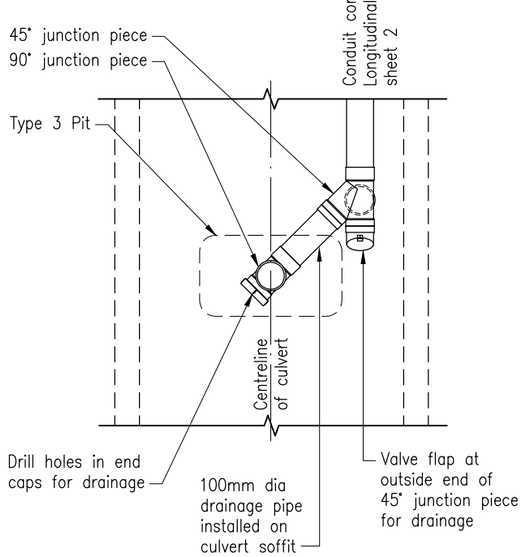
ASSOCIATED DEPARTMENTAL DOCUMENTS:
- Standard Drawings
- Specifications

REFERENCED DOCUMENTS:
Departmental Standard Drawings:
- 1736 ITS – ITS – Symbols
- 1901 ITS – Traffic Survey Cabinet Base Installation Details
- 1905 ITS – Traffic Survey Cabinet Typical Details
- 1906 ITS – WiM Piezo Sensor Installation Details

Departmental Specifications:
- MRTS203 Provision of Weigh–in–Motion System
- MRTS207 Traffic Survey Foundation Equipment
- MRTS250 Provision of Automatic Number Plate Recognition System



SECTION A–A
PIT AND CONDUIT INSTALLATION DETAILS PLAN VIEW



DETAIL 1
PIT AND CONDUIT INSTALLATION DETAILS

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

Department of Transport and Main Roads

ITS

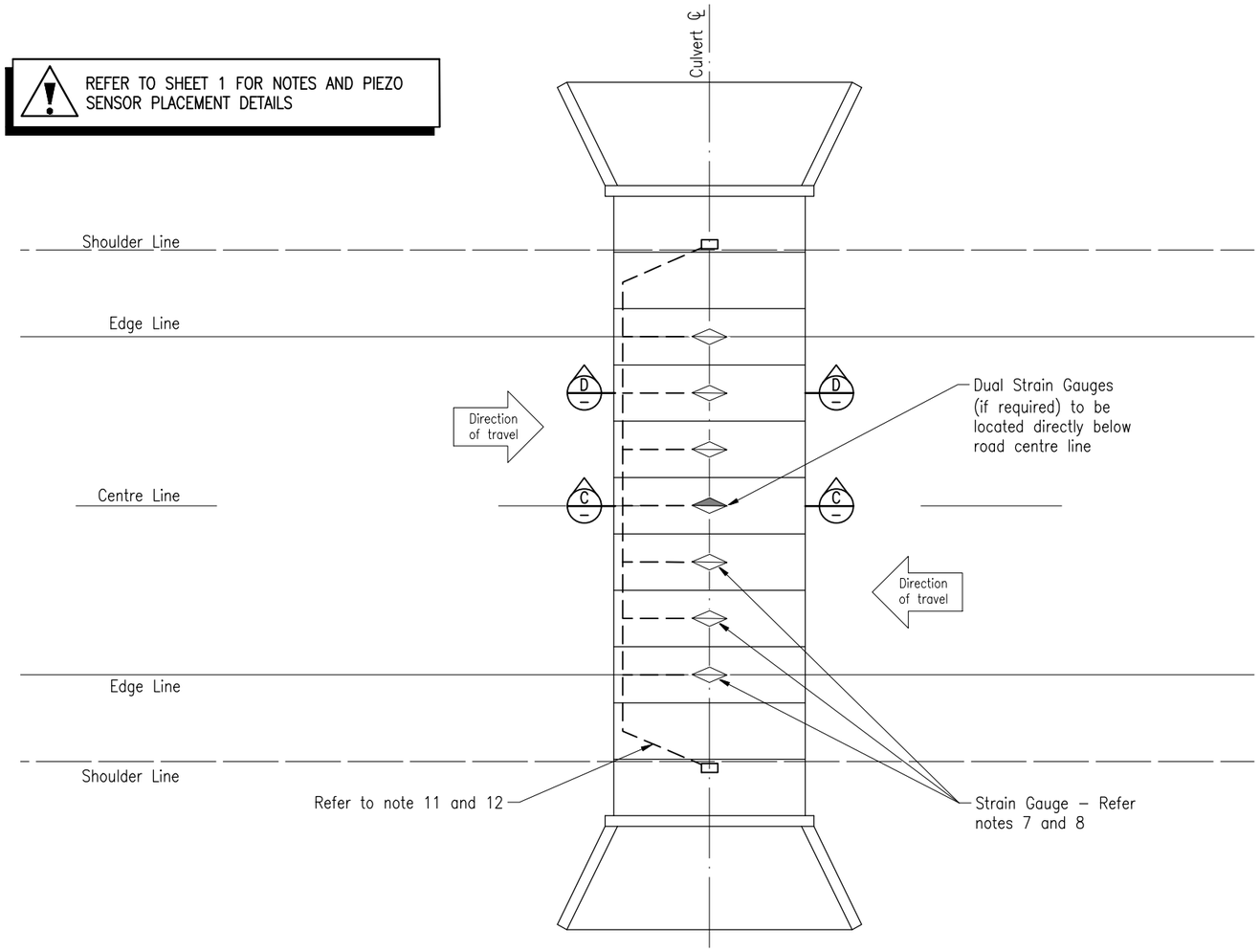
WIM SENSOR CONFIGURATION
STRAIN GAUGE SENSOR
SHEET 1 of 2

A3
Not to Scale

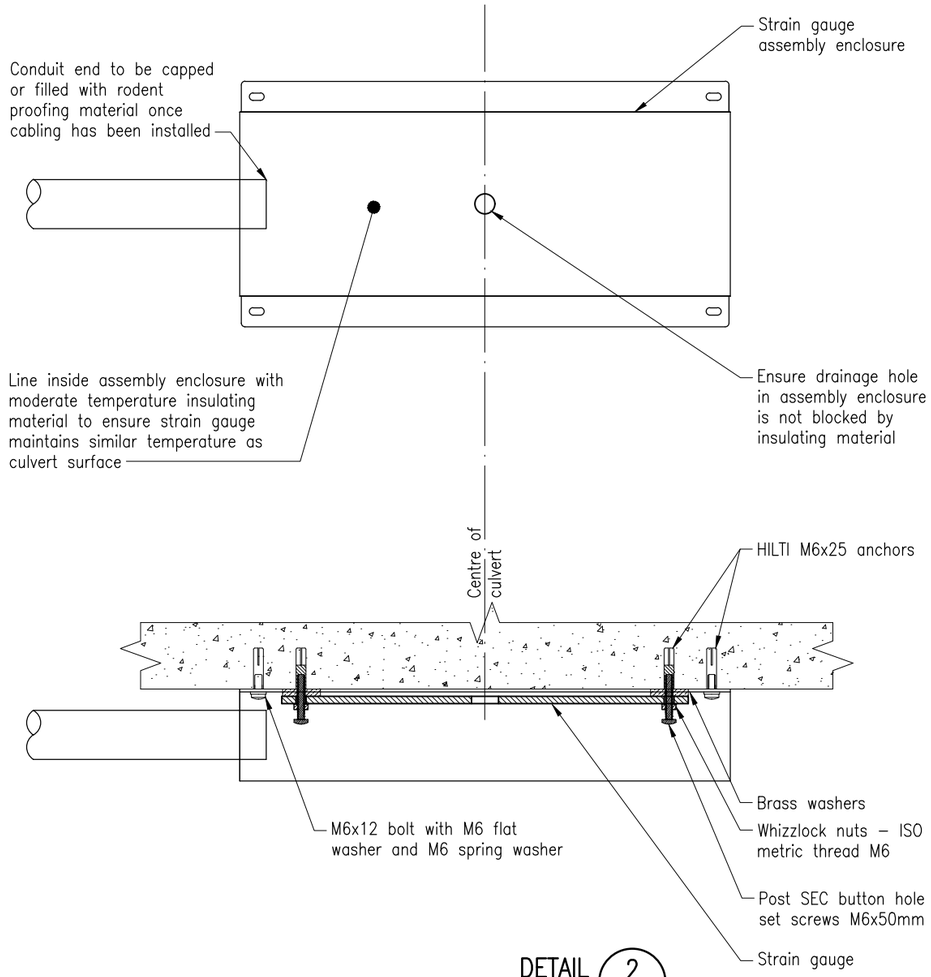
Standard Drawing No
1911
Date 3/2023

A | B | C | D | E

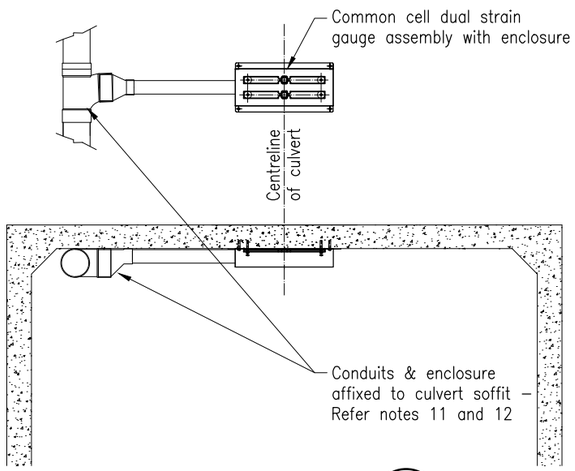
REFER TO SHEET 1 FOR NOTES AND PIEZO SENSOR PLACEMENT DETAILS



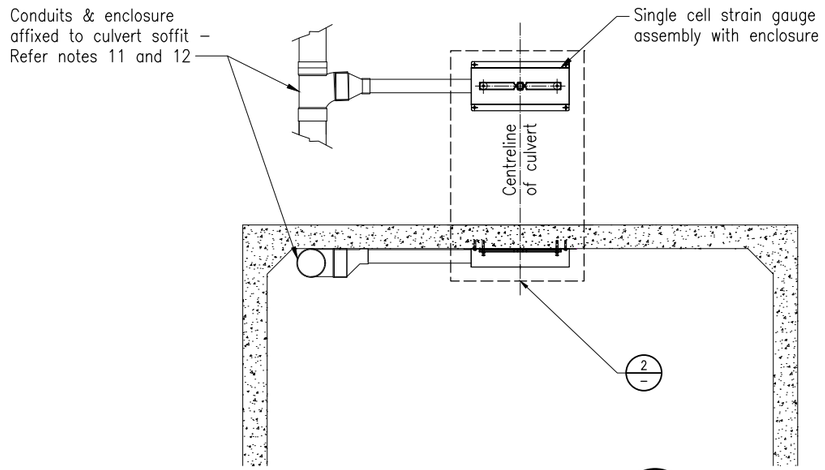
STRAIN GAUGE LAYOUT
SINGLE CARRIAGEWAY CONFIGURATION



DETAIL 2
STRAIN GAUGE ASSEMBLY AND ENCLOSURE MOUNTING DETAILS



SECTION C
COMMON CELL DUAL STRAIN GAUGE AND ENCLOSURE INSTALLATION DETAILS (IF REQUIRED)



SECTION D
SINGLE CELL STRAIN GAUGE AND ENCLOSURE INSTALLATION DETAILS

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

Department of Transport and Main Roads

ITS

WIM SENSOR CONFIGURATION
STRAIN GAUGE SENSOR
SHEET 2 of 2

A3
Not to Scale

Standard Drawing No
1911
Date 3/2023

A | B | C | D | E