

**LEGEND**

SYMBOL	TYPE
	ANPR Camera with pole
	PTZ Dome Camera with pole
	Wireless Antenna
	Field 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. Separation of piezo sensors shall be 10000mm ± 3mm.
6. Trailing piezo sensor must be installed directly over the centre 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.
10. The traffic monitoring cabinet and concrete pad shall be installed clear of flood levels.
11. Contractor shall follow TMR Structures team approved methods and procedures regarding core drilling holes through culvert roof.
12. All conduits and enclosures to be installed on the culvert roof shall be affixed by TMR Structures team approved method.
13. Under no circumstances should PVC glue be used to bond conduits together that are attached to culvert roof. Conduit assembly shall be joined by slide fit only and are not required to be waterproof.
14. All dimensions in metres unless noted otherwise.

**ASSOCIATED DEPARTMENTAL DOCUMENTS:**

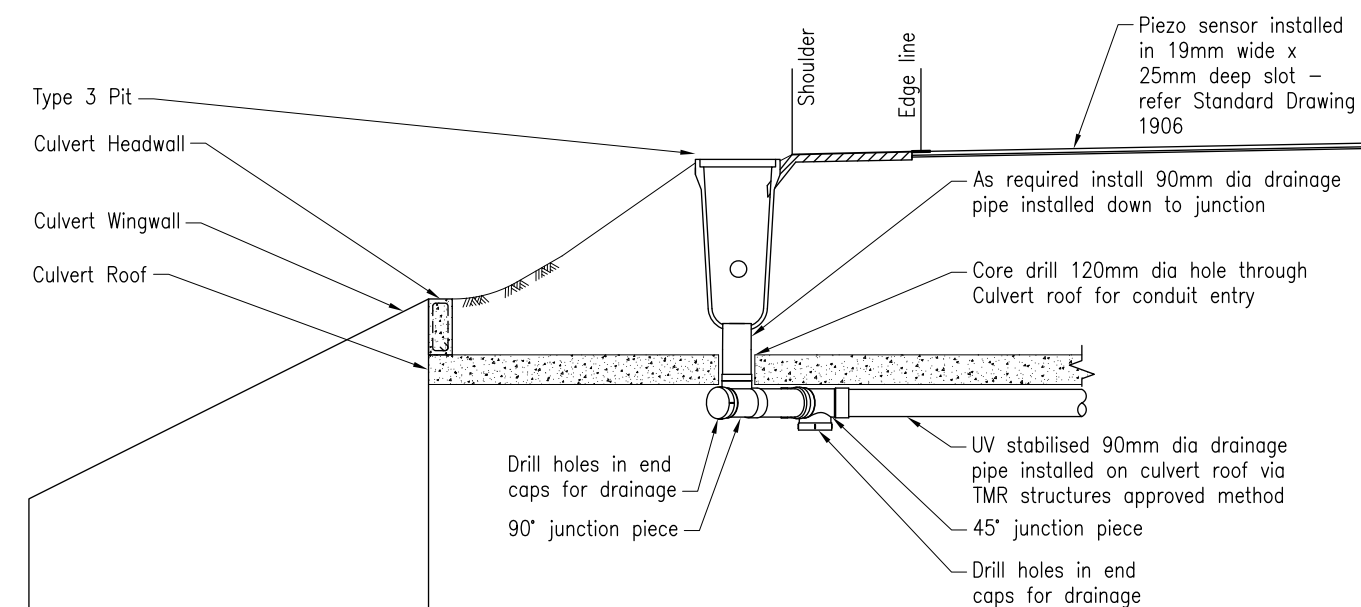
- Standard Drawings
- Specifications

**REFERENCED DOCUMENTS:**

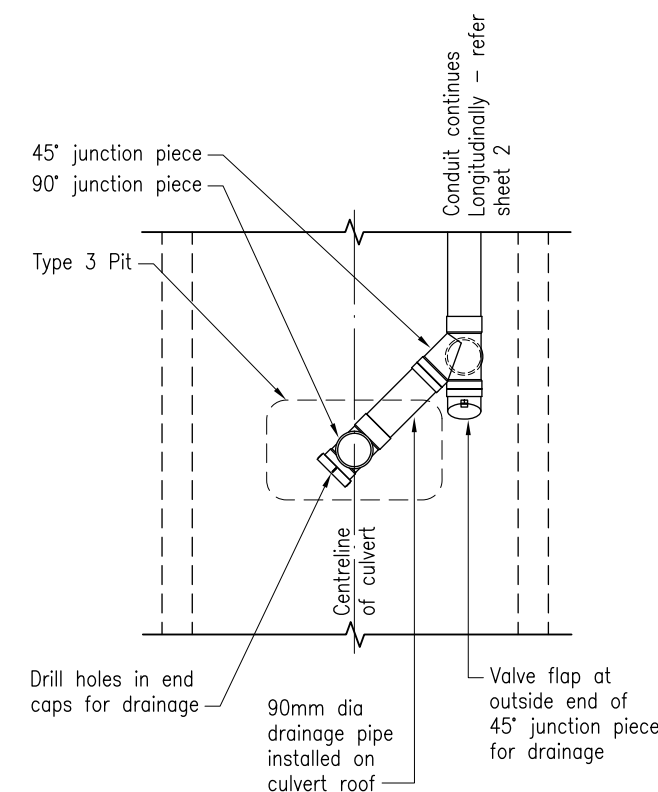
- Departmental Standard Drawings:
- 1901 ITS – Traffic Monitoring Cabinet Base Installation Details
  - 1905 ITS – Traffic Monitoring Cabinet Typical Details
  - 1906 ITS – WiM Piezo Sensor Installation Details

**Departmental Specifications:**

- MRTS203 Provision of Weigh-in-Motion System
- MRTS207 Traffic Monitoring Foundation Equipment
- MRTS250 Provision of Automatic Number Plate Recognition System



**SECTION A**  
PIT AND CONDUIT  
INSTALLATION DETAILS  
PLAN VIEW

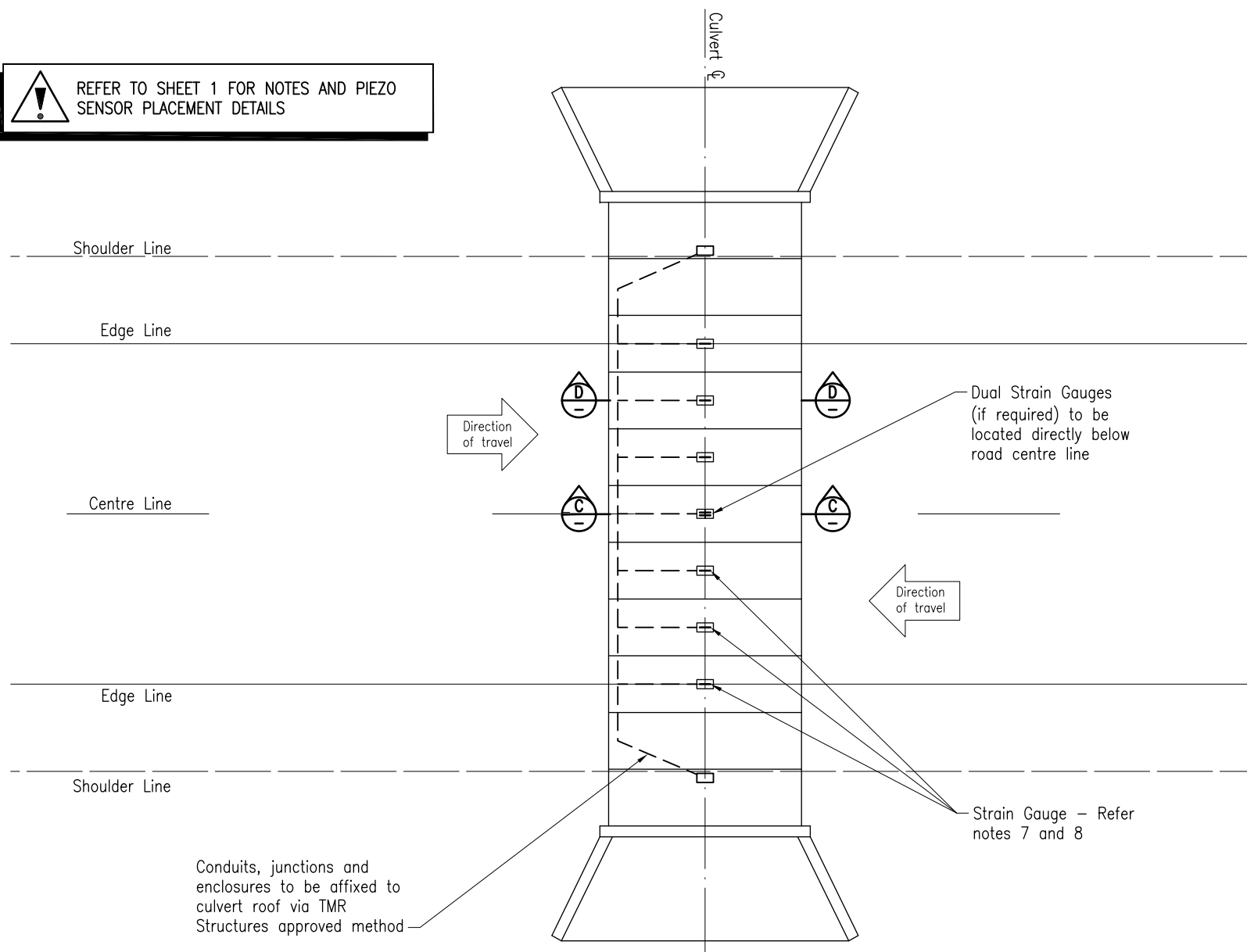


**DETAIL 1**  
PIT AND CONDUIT  
INSTALLATION DETAILS

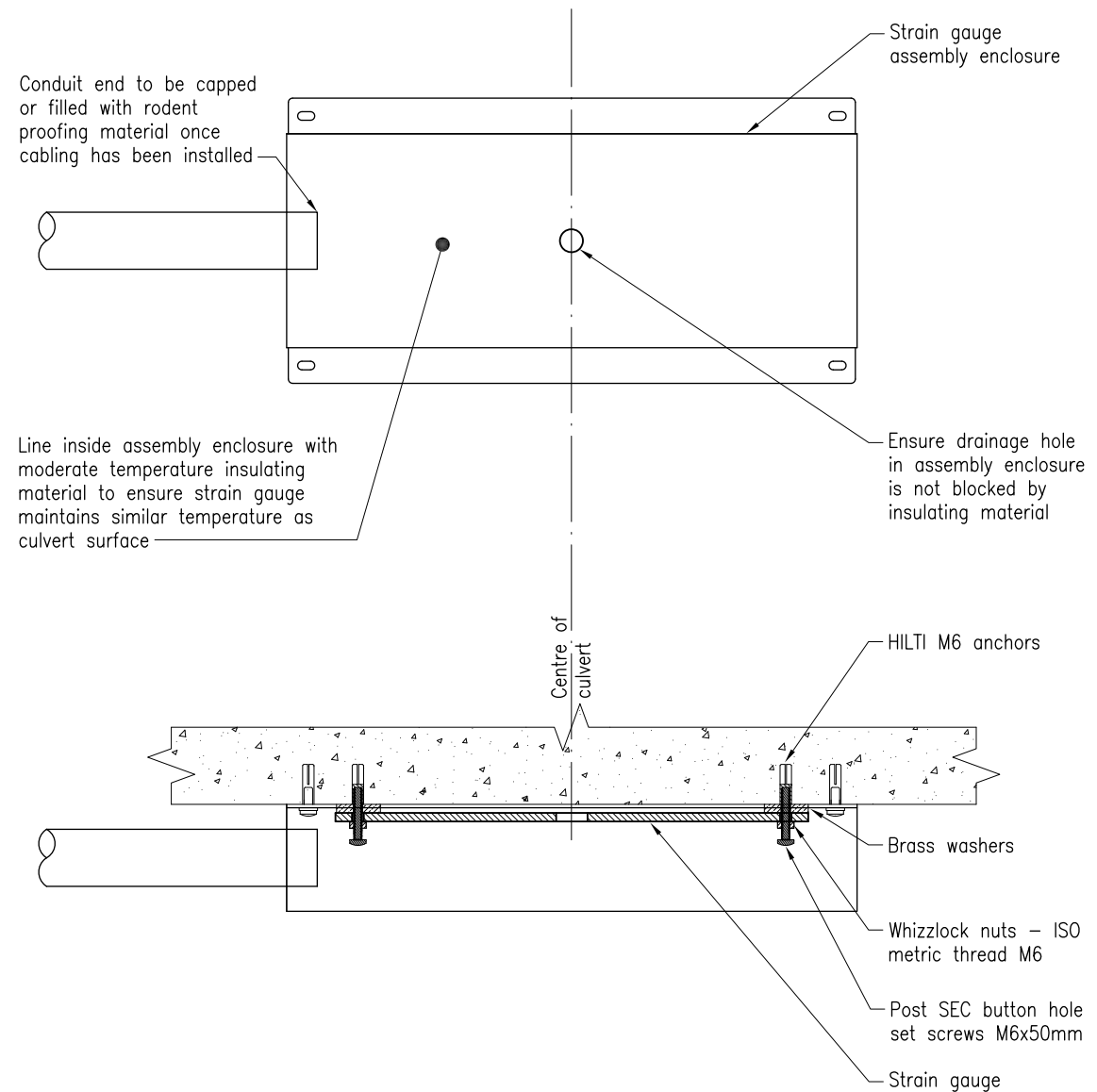
**INSTALLATION OF CONDUITS AND PITS IS THE RESPONSIBILITY OF THE LICENSED ELECTRICAL CONTRACTOR**

Department of Transport and Main Roads			
ITS			
WIM SENSOR CONFIGURATION STRAIN GAUGE SENSOR SHEET 1 of 2		A3 Not to Scale	Standard Drawing No <b>1911</b> Date 11/2020
A	B	C	

**REFER TO SHEET 1 FOR NOTES AND PIEZO SENSOR PLACEMENT DETAILS**

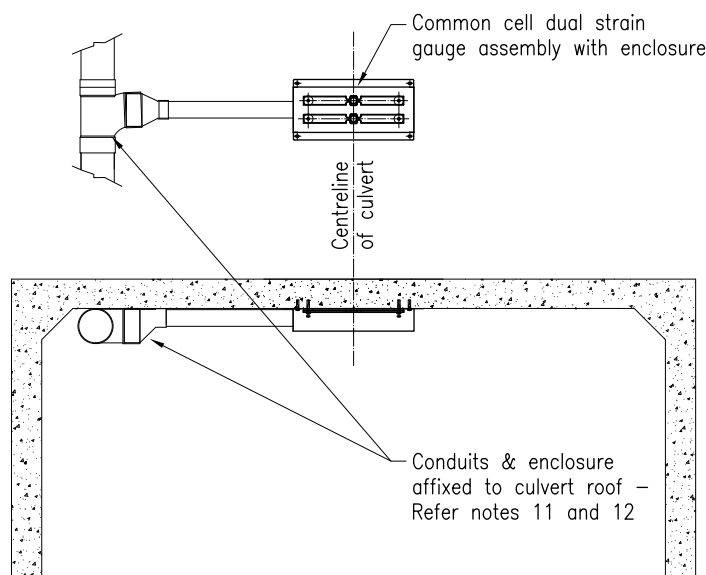


**STRAIN GAUGE LAYOUT  
SINGLE CARRIAGEWAY CONFIGURATION**

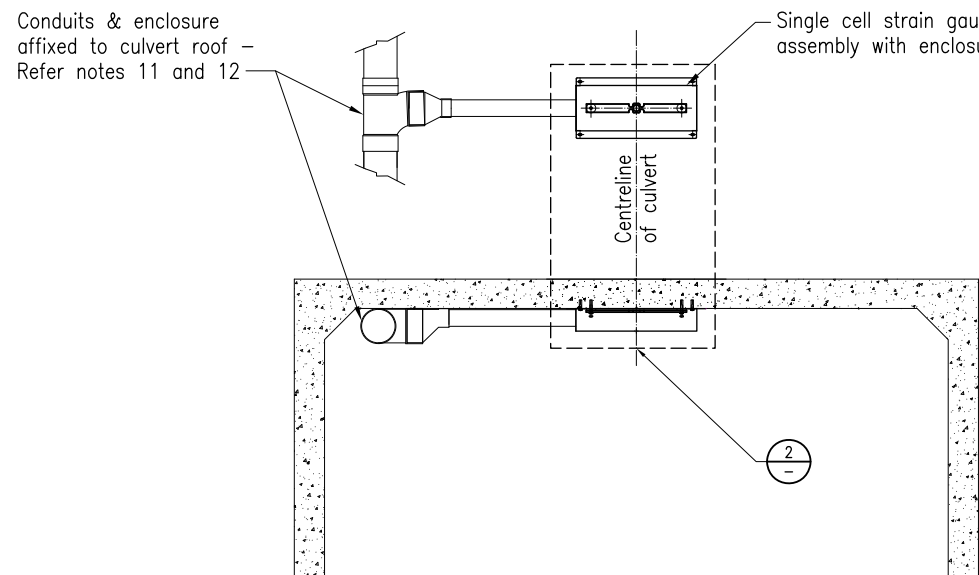


**DETAIL 2  
STRAIN GAUGE ASSEMBLY AND ENCLOSURE MOUNTING DETAILS**

**REFER TO SHEET 1 FOR NOTES AND PIEZO SENSOR PLACEMENT DETAILS**



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



**SECTION D  
SINGLE CELL STRAIN GAUGE AND ENCLOSURE INSTALLATION DETAILS**

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ITS			
WIM SENSOR CONFIGURATION STRAIN GAUGE SENSOR SHEET 2 of 2		A3 Not to Scale	Standard Drawing No <b>1911</b> Date 11/2020
A	B	C	