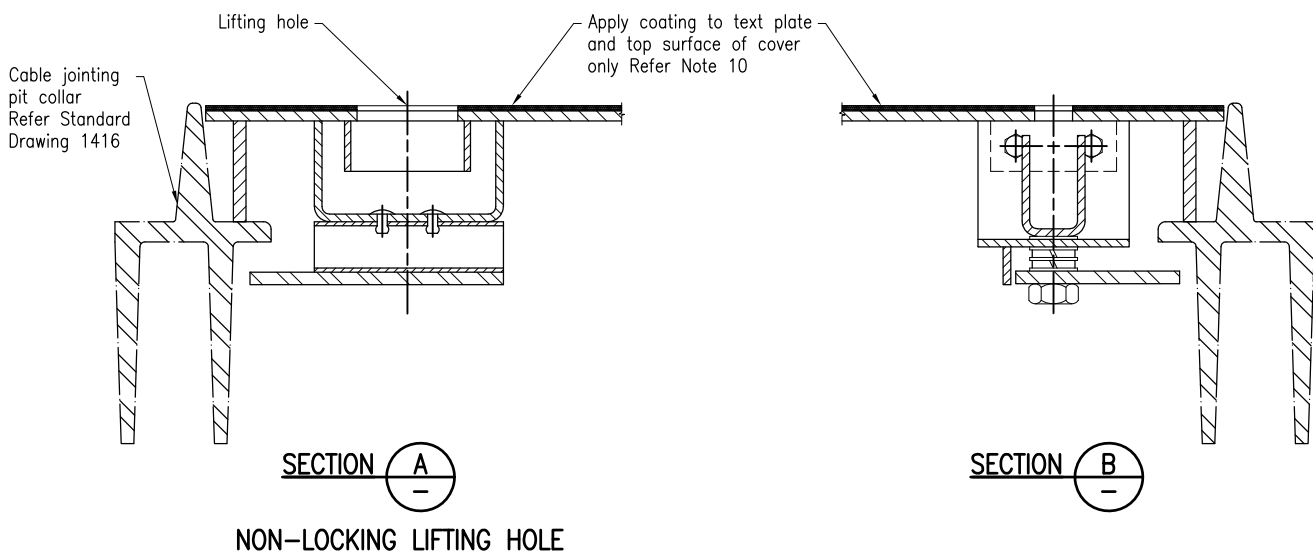
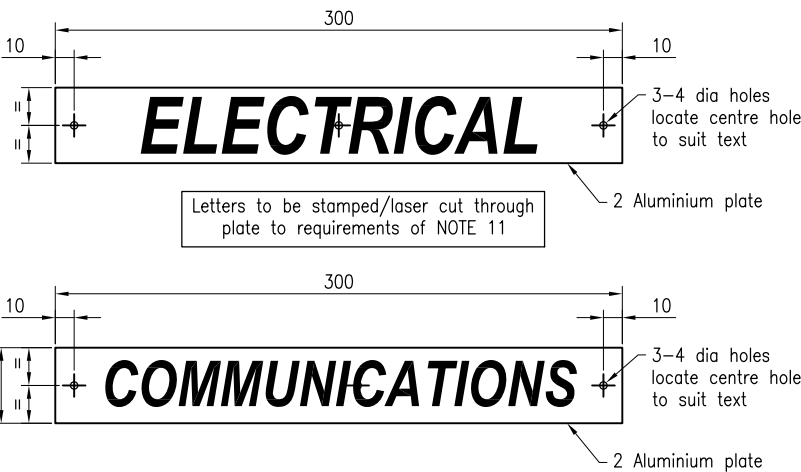


**COVER ASSEMBLY
(TOPSIDE VIEW)**



**SECTION A
NON-LOCKING LIFTING HOLE**



ALUMINIUM TEXT PLATE DETAILS

REFERENCED DOCUMENTS:

Departmental Standard Drawings:

1416 Traffic Signals/Road Lighting – Collar for Circular Cable Jointing Pit

Departmental Specifications:

MRTS78 – Fabrication of Structural Steelwork

MRTS91 – Conduits and Pits

Australian Standards:

AS 1101.3

Graphical symbols for general engineering–Welding and non-destructive examination.

AS 1163

Cold-formed structural steel hollow sections

AS/NZS 1554.1

Structural steel welding–welding of steel structures

AS/NZS 1554.6

Structural steel welding–welding stainless steels for structural purposes

AS/NZS 3678

Structural steel–Hot rolled plates, floorplates and slabs

AS/NZS 3679

Structural steel–Hot rolled bars and sections

AS 3996

Access covers and grates

AS/NZS 4680

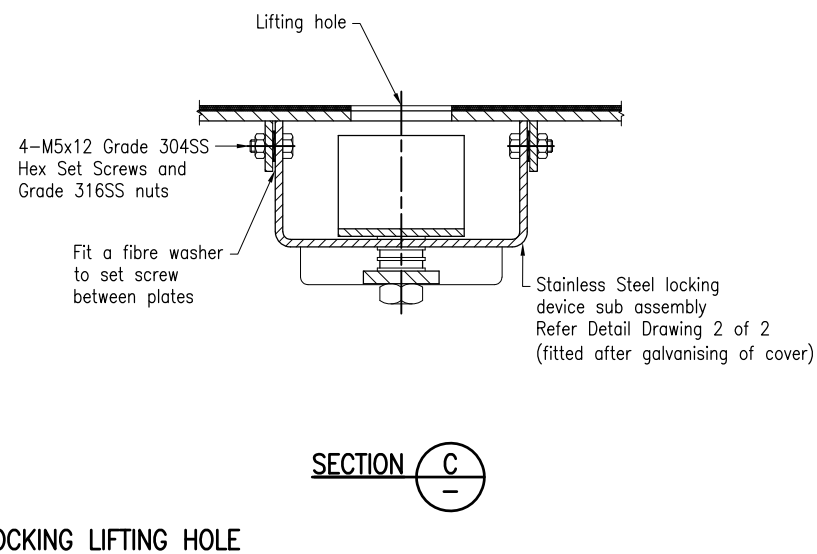
Hot-dip galvanized (zinc) coatings on fabricated ferrous articles

AS/NZS 14341

Welding Consumables – Wire Electrodes and Weld Deposits for Gas Shielded Metal Arc Welding of Non alloy and Fine Grain Steels – Classifications

AS/NZS ISO 17632

Welding Consumables – Tubular Cored Electrodes for Gas Shielded and Non-gas Shielded Metal Arc Welding of Non-alloy and Fine Grain Steels – Classification



**SECTION C
LOCKING LIFTING HOLE**

NOTES:

- Circular cover is for circular pits that meet the requirements of MRTS91.
- Circular cover to meet AS 3996 Class B design load and the requirements of MRTS91.
- Cover is not be used in roadways.
- Total cover lifting mass is to be less than 25kg.
- MATERIALS**
Structural Steel
– Plates to be Grade 250 to AS/NZS 3678
– PFC, round bar and flat bar to be Grade 300 to AS/NZS 3679.1
– CHS to be Grade 350LO to AS/NZS 1163.

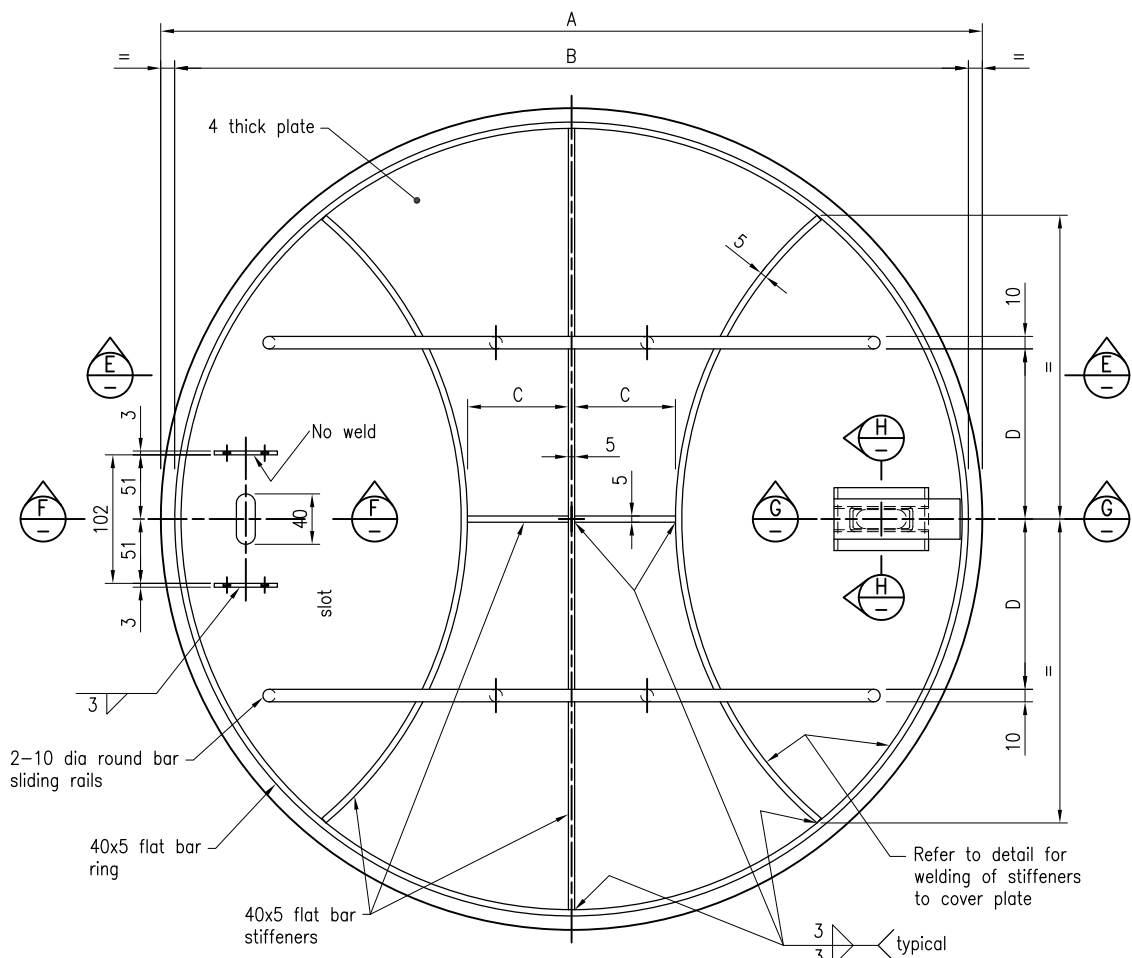
Stainless Steel
– Plates and flat bar to be Grade 316.
– Stainless steel bolts and washers to be Grade 304 and nuts Grade 316 unless shown otherwise.
– Stainless steel bolts and nuts to have an ISO coarse pitch metric thread.
- WELDING**
Welding symbols are to AS 1101.3
Structural Steel
– Welding to conform to AS/NZS 1554.1
– Welds to be SP category
– Welding consumables to be controlled hydrogen type: G493 to AS/NZS ISO 14341-B or T493 to AS/NZS ISO 17632-B unless shown otherwise.

Stainless Steel
– Welding to conform to AS/NZS 1554.6
– Weld quality 1B, II(a)
– Welding consumables to be E316L unless shown otherwise.
- All edges are to be smooth.
- All steelwork to be cleaned and welding slag removed prior to hot dip galvanising to AS/NZS 4680.
- Steelwork to be fabricated to the requirements of MRTS78.
- A non-slip, non-conductive coating is to be applied to the top surface of the cover, and the aluminium text plate. Coating is to meet requirements of MRTS91.
- MARKING OF COVERS**
Covers to be marked with letters 'ELECTRICAL' or 'COMMUNICATIONS' as ordered. Text is to be uppercase Arial font and have a minimum height of 30mm for 'ELECTRICAL' and 24mm for 'COMMUNICATIONS'. The markings to be undertaken by engraving into the coating to a depth of 2mm (if facilitated by the coating) or by fastening and then coating an aluminium text plate (refer to detail). A permanent identifying label is to be attached to the underside of each cover and state '[Manufacturer's Name]', '[Date of Manufacture month/year]' and '[Weight of product in kg]'. An additional permanent identifying label is to be attached to the underside of each cover and state '[Name of Coating Supplier]'. Self adhesive stick on labels are not to be used as the permanent identifying labels. Use of steel or aluminium labels riveted to middle structural support is acceptable.
- Dimensions are in millimetres unless shown otherwise.

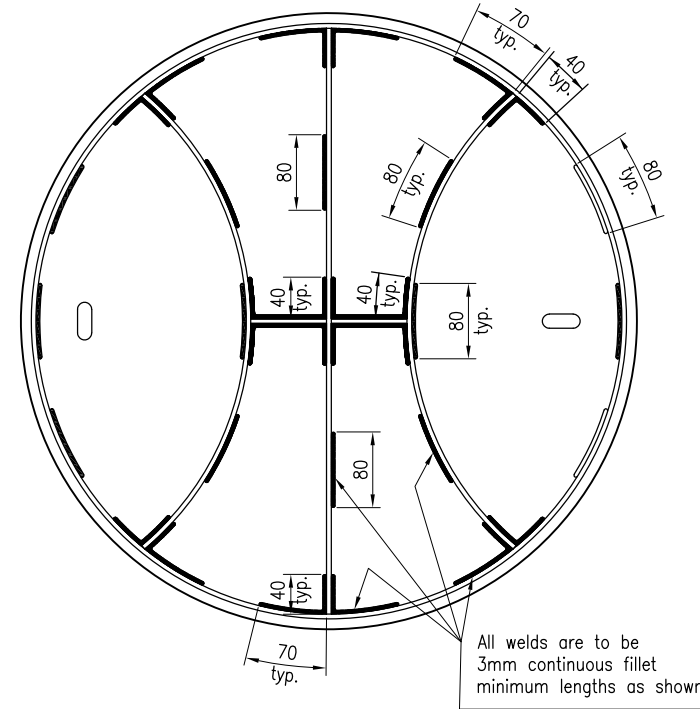
ASSOCIATED DEPARTMENTAL DOCUMENTS:

Standard Drawings
Specifications

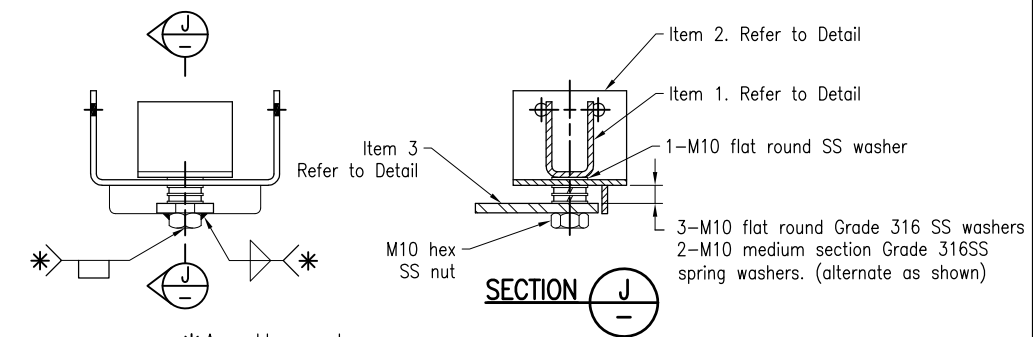
Department of Transport and Main Roads				© The State of Queensland (Department of Transport and Main Roads) 2021 https://creativecommons.org/licenses/by/4.0/	
TRAFFIC SIGNALS/ROAD LIGHTING				A3	Standard Drawing No
CABLE JOINTING PIT CIRCULAR PIT COVER DRAWING 1 OF 2		Not to Scale	1417		
			Date 3/2021		
A	B	C	D	E	F



STEEL COVER - FABRICATION DETAILS
(UNDERSIDE VIEW)

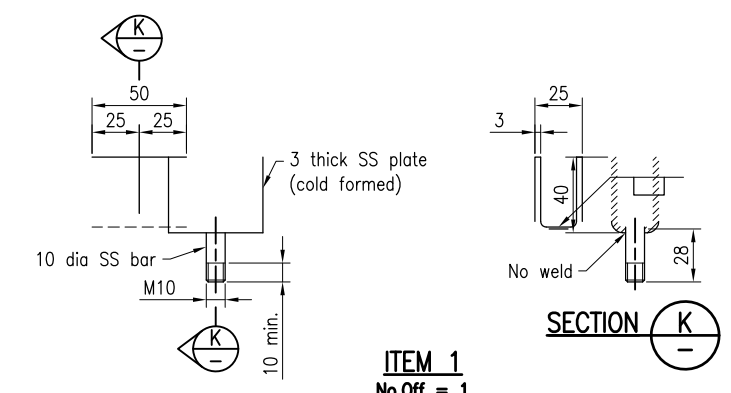


WELDING DETAILS FOR
STIFFENERS TO COVER PLATE



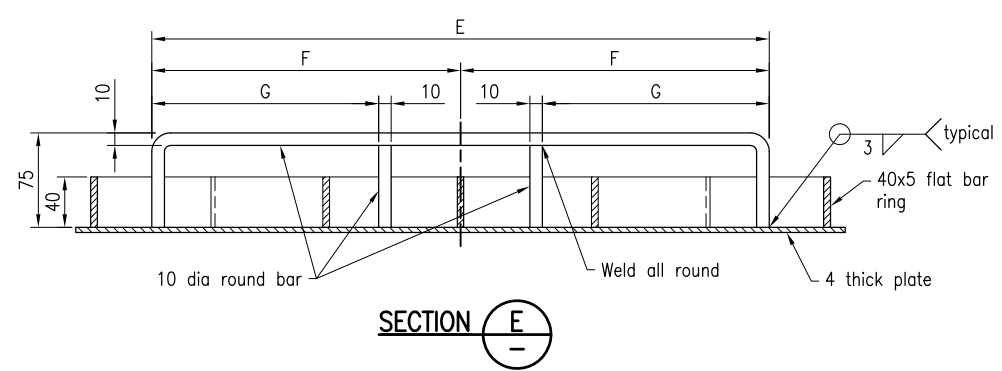
* Assembly procedure:
Fit item 1 into item 2 using flat washer.
Fit 3 flat washers and 2 spring washers as shown and then item 3.
Fit nut and tighten to a torque of 2 Nm.
Weld nut to item 3 (2 sides only).
Position item 3 at 90° to item 1 as shown.
Plug weld nut to item 1.

LOCKING DEVICE-SUB ASSEMBLY



ITEM 1
No.Off = 1

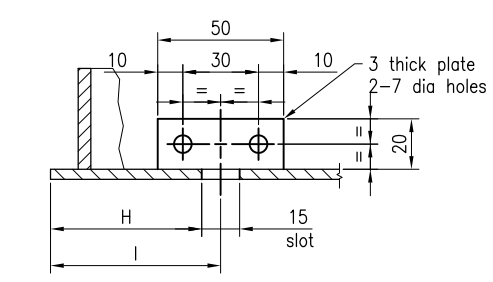
ITEM 2
No.Off = 1



SECTION E-E

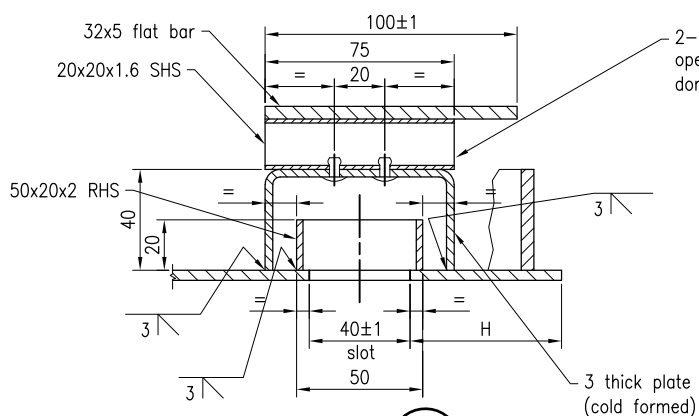
Steel Cover Dimension

DIM	Type 60	Type 100
A	ø652 ±1	ø1052 ±1
B	ø630 ±2	ø1030 ±2
C	80	135
D	135	225
E	490	815
F	245	407.5
G	180	300
H	60	100
I	67.5	107.5



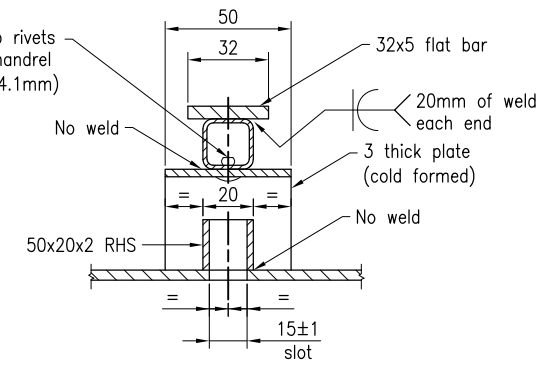
SECTION F-F

LOCKING DEVICE MOUNT DETAILS

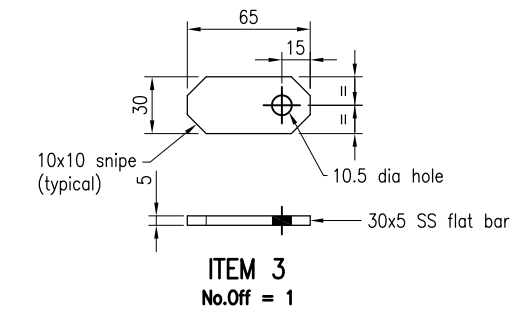


SECTION G-G

NON-LOCKING DEVICE DETAILS



SECTION H-H



ITEM 3
No.Off = 1

Department of Transport and Main Roads			
TRAFFIC SIGNALS/ROAD LIGHTING			
CABLE JOINTING PIT CIRCULAR PIT COVER DRAWING 2 OF 2		A3 Not to Scale	Standard Drawing No 1417 Date 3/2021
A	B	C	D