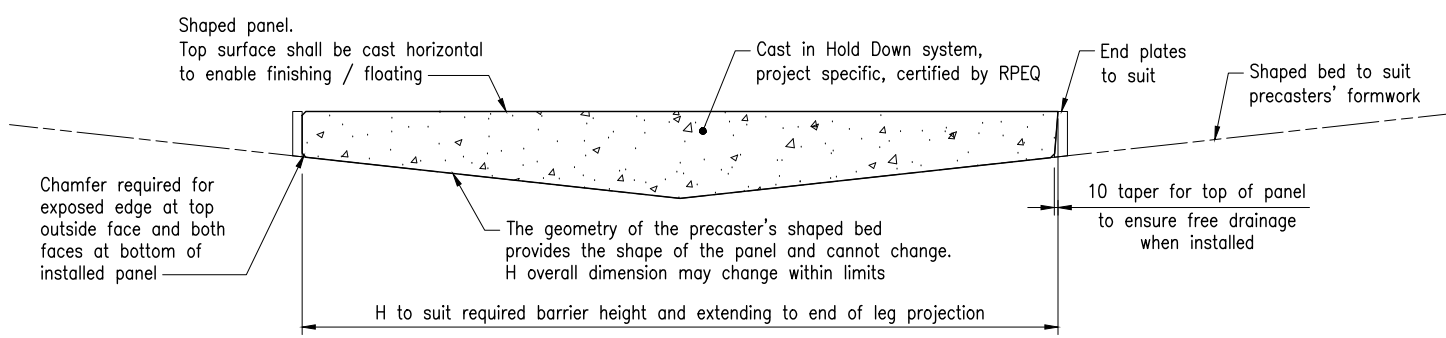
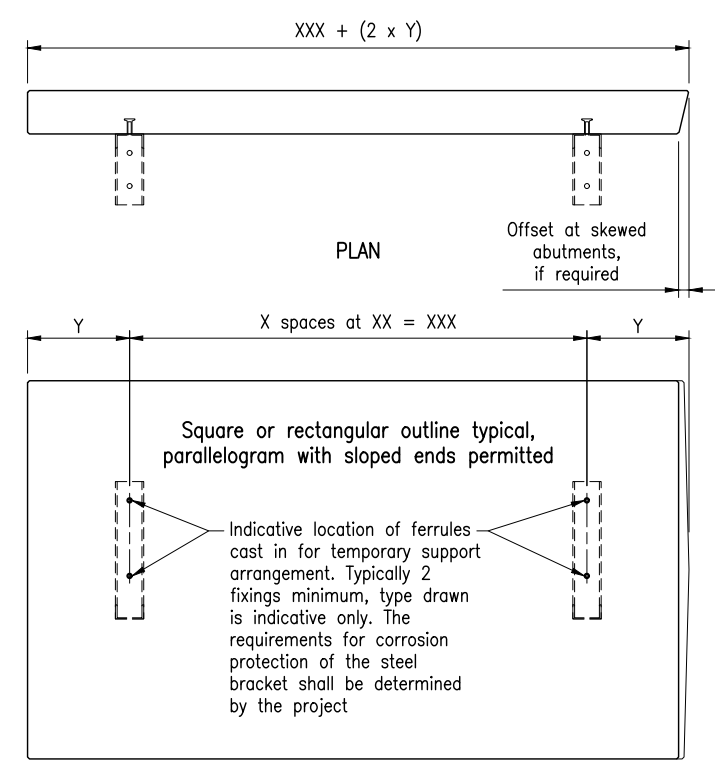


PROFILE - FLAT PRECAST BRIDGE BARRIER PANEL

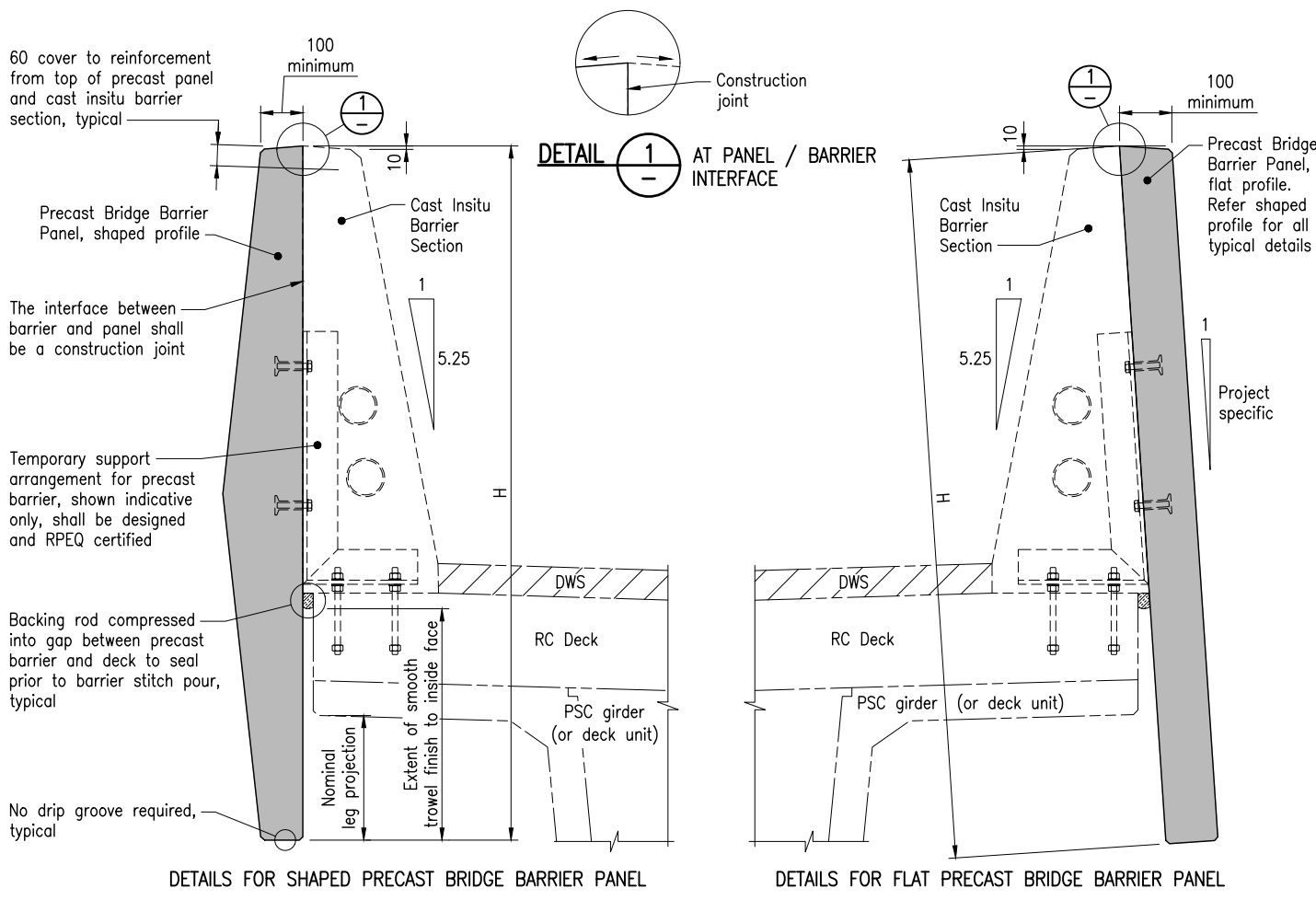


PROFILE - SHAPED PRECAST BRIDGE BARRIER PANEL



ELEVATION

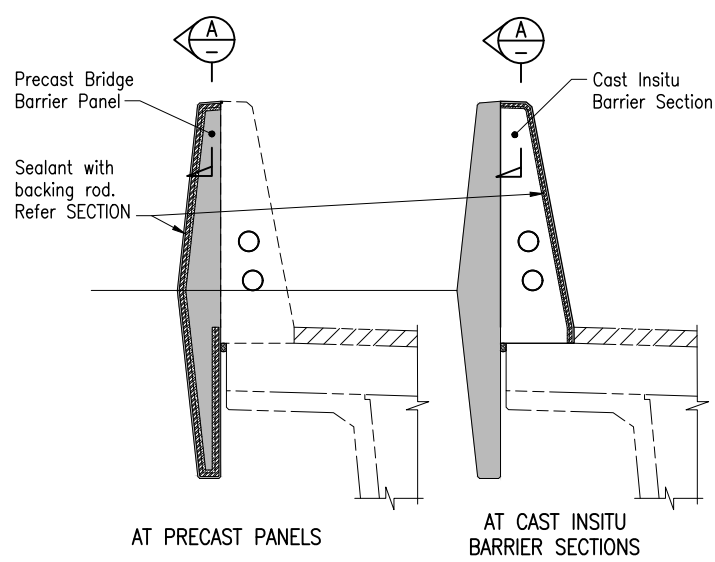
TYPICAL PANEL
No OFF and Type to be supplied



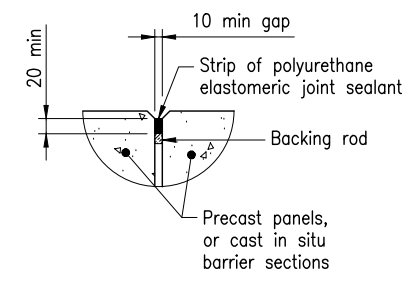
DETAILS FOR SHAPED PRECAST BRIDGE BARRIER PANEL

DETAILS FOR FLAT PRECAST BRIDGE BARRIER PANEL

GENERAL ARRANGEMENT



TYPICAL JOINT BETWEEN PRECAST PANELS



SECTION A NORMAL TO THE ROAD

TYPICAL SEALANT JOINT DETAIL

The purpose of This Standard Drawing is to provide typical standard details to aid efficient precasting of barrier panels. The fitness for purpose of these details for a specific project shall be designed and certified by an RPEQ. Certified engineering drawings shall detail Plan / Elevation sufficient to describe the following :

1. Panel Types and No OFF and Panel Joints;
2. Precast Panel reinforcement and RC Deck starter bars;
3. In situ concrete;
4. Hold Down Brackets Type, No OFF and Spacing;
5. No OFF and joint details for Conduits;
6. Lifting anchors, Storage and Erection of Panels; and
7. Provision for Bridge Span Jacking where applicable

NOTES:

1. 'Fit for purpose' design of PRECAST BRIDGE BARRIER PANELS using standard panel dimensions for specific project requirements shall be developed and certified by an RPEQ, using this Standard Drawing as the basis. Project specific details shall be included in the scheme drawings.
2. Bridge barrier systems and precast bridge barrier panel shall be designed in accordance with Design Criteria for Bridges and other Structures and AS 5100.
3. PRECAST BRIDGE BARRIER PANELS shall be cast in accordance with MRTS72. Concrete Grade S50/20. Cast insitu barrier typically 40 MPa. Exposure classification B2. Concrete shall be cast in rigid forms and subjected to intense compaction. All exposed edges shall have 10 x 10 chamfers, unless shown otherwise.
4. REINFORCING STEEL shall be in accordance with Standard Drawings 1043 and 1044, MRTS71 and AS/NZS 4671. Deformed bars Grade D500N. Round bars Grade R250N. Minimum cover to all reinforcing steel shall be 40 unless shown otherwise. All carbon reinforcing steel shall be ACRS certified.
5. STEELWORK shall be fabricated to the requirements of MRTS78.
6. LIFTING ANCHORS for casting and erection shall be designed and specified in accordance with MRTS72.
7. Contractor shall review if additional support to the precast barrier is required for the in situ pour of the barrier section.
8. DIMENSIONS are in millimetres.

ASSOCIATED DEPARTMENTAL DOCUMENTS:
Design Criteria for Bridges and other Structures

REFERENCED DOCUMENTS:
Departmental Standard Drawings:
1043 Reinforcing Steel - Standard Bar Shapes
1044 Reinforcing Steel - Lap Lengths
Departmental Specifications:
MRTS70 Concrete
MRTS71 Reinforcing Steel
MRTS72 Manufacture of Precast Elements
MRTS78 Fabrication of Structural Steelwork
MRTS278 Supply of Structural Fasteners

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BRIDGE BARRIERS				A3	Standard Drawing No
PRECAST BRIDGE BARRIER PANEL - GENERAL ARRANGEMENT		Not to Scale	2190		Date 7/2022
		A			