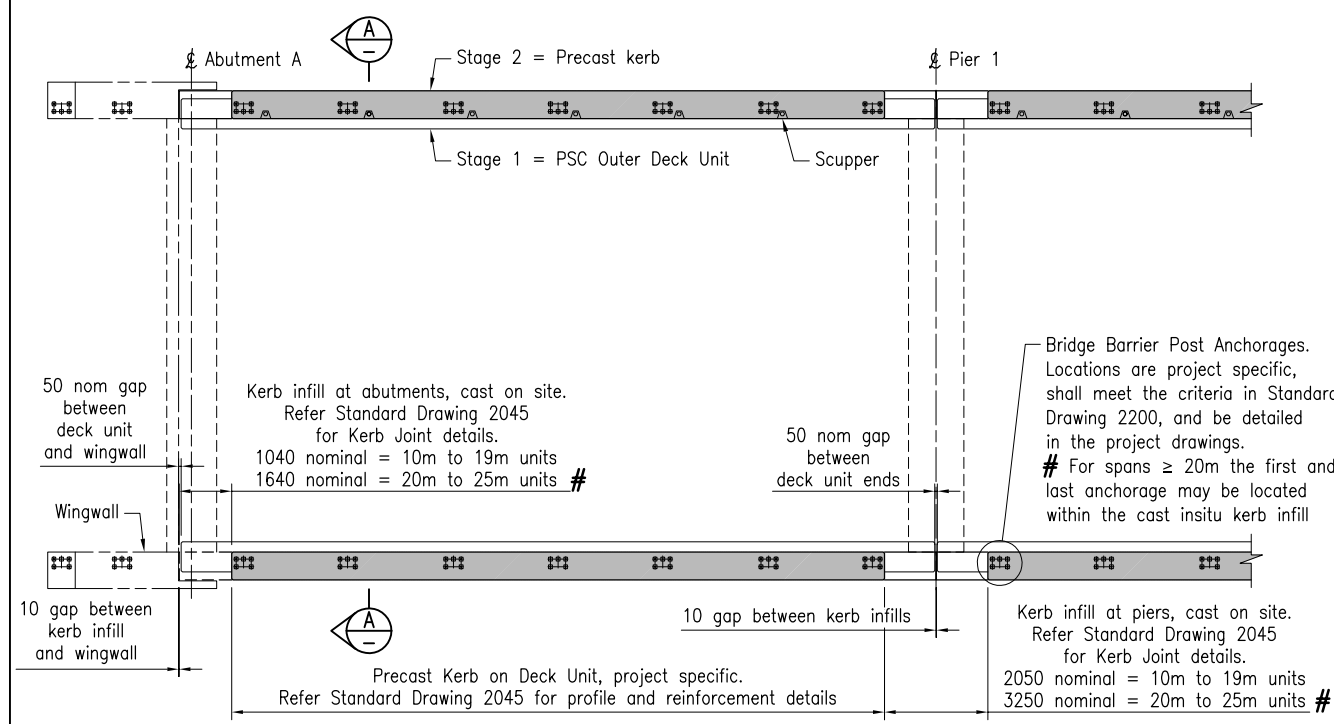
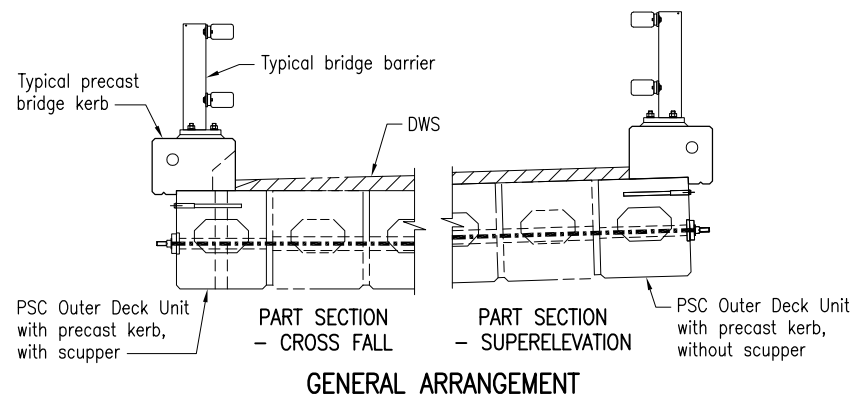


The purpose of This Standard Drawing is to provide typical standard details.
 The fitness for purpose of these details for a specific project shall be designed and certified by an RPEQ.
 The details specific to the project location shall be shown on the project specific drawings.



PLAN
 EXTENTS OF PRECAST KERBS AND ON SITE CONCRETE KERB INFILL



GENERAL ARRANGEMENT

HOG SCHEDULE

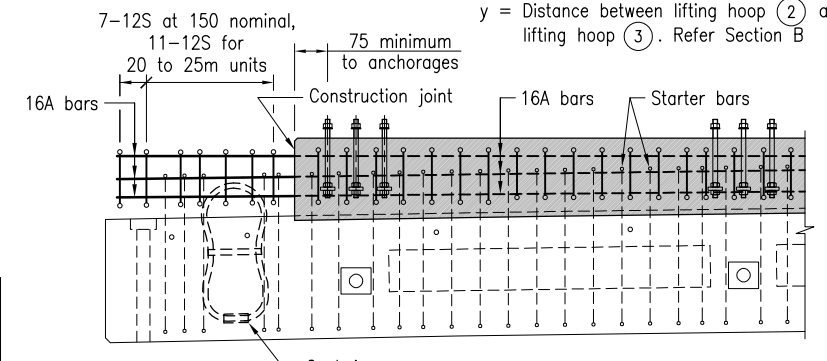
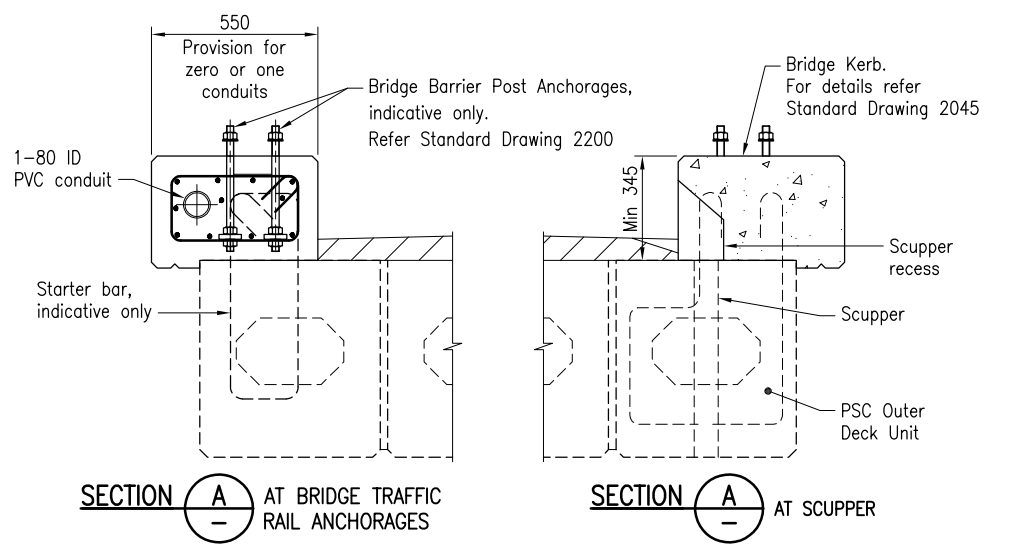
Span m	TMR SD No	Stage 1 Only ☉		Stage 2 Pour ☉	
		Transfer	30 Days	100 Days	100 Days
10	2050	14	16	13	15
11	2051	16	19	15	18
12	2052	17	20	16	19
13	2053	19	22	16	19
14 ★		20	24	19	24
15	2055	19	24	18	24
16 ★		22	27	20	26
17 ★		24	29	20	27
18 ★		23	28	19	27
19	2059	23	29	18	26
20 ★		24	30	20	29
21 ★		24	30	18	27
22 ★		22	28	17	26
23 ★		22	27	14	23
24 ★		17	21	11	19
25	2065	16	20	8	16

LIFTING DETAILS

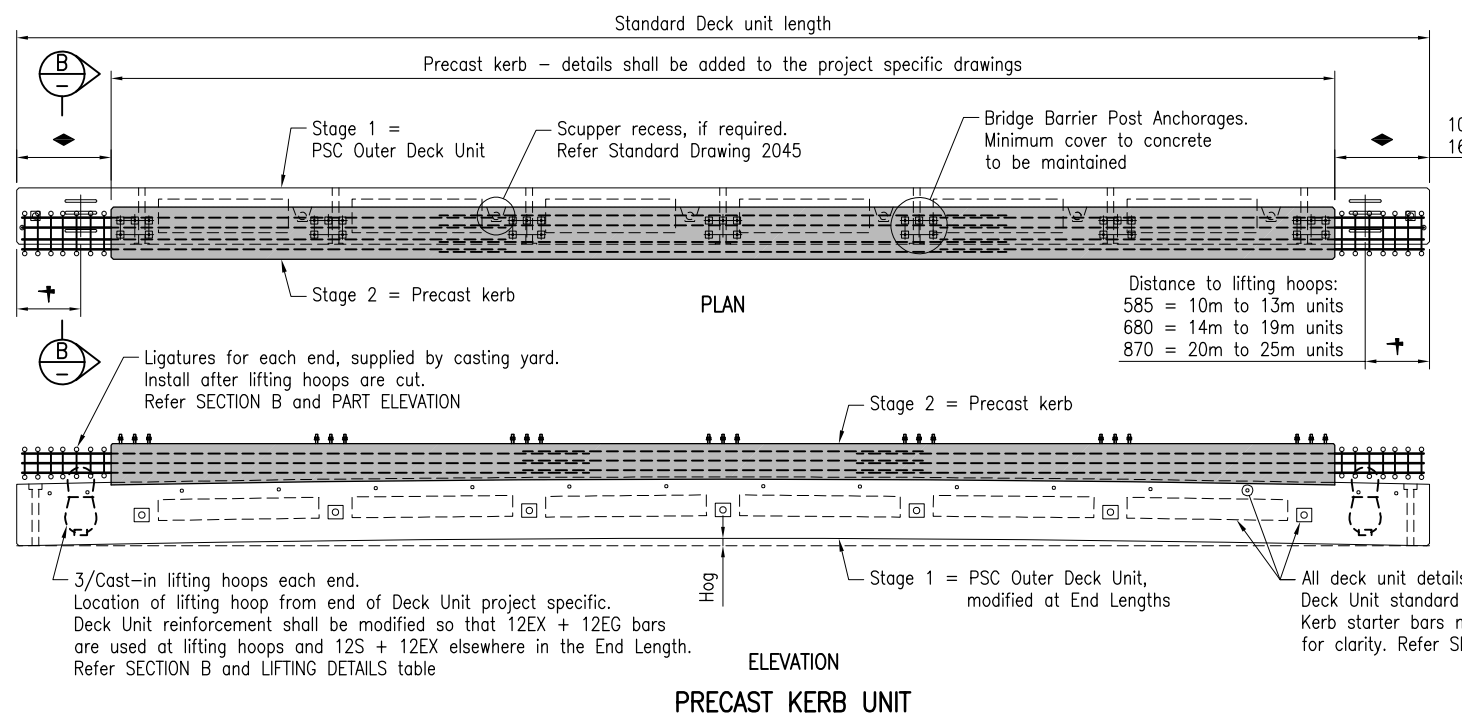
Span m	x	y	Lifting capacity per hoop kN
10	384	144	280
11	384	144	310
12	380	152	350
13	380	152	380
14 ★	380	152	440
15	380	152	470
16 ★	379	154	530
17 ★	379	154	560
18 ★	377	158	620
19	377	158	650
20 ★	374	164	730
21 ★	374	164	760
22 ★	370	172	860
23 ★	370	172	890
24 ★	366	180	1020
25	366	180	1050

★ Currently, TMR does not have standard drawings available for these spans.
 ☉ Hog values are calculated in accordance with the deck unit details shown in the relevant TMR standard drawings

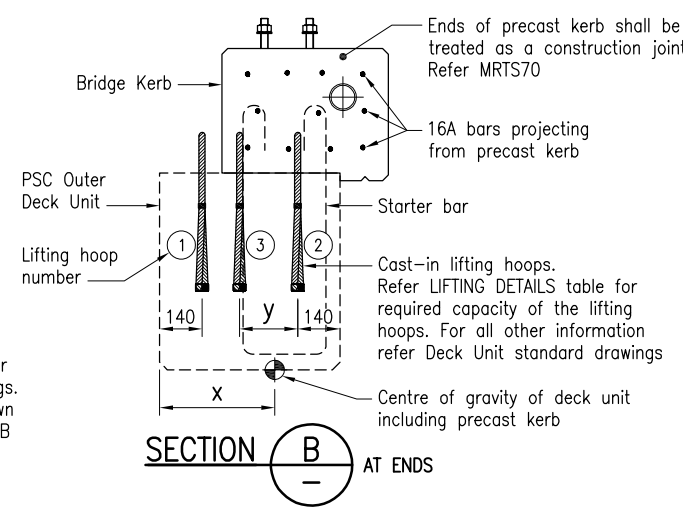
x = Distance to centre of gravity of deck unit including precast kerb. Refer Section B
 y = Distance between lifting hoop ② and lifting hoop ③. Refer Section B



PART ELEVATION
 REINFORCEMENT DETAILS



ELEVATION
 PRECAST KERB UNIT



SECTION B
 AT ENDS

NOTES:

- SCOPE: This Standard Drawing details an option for precast kerbs on bridges. Stage 1 PSC units are as per PSC Outer Deck Units on TMR Standard Drawings for relevant span, with modified lifting details as shown on this drawing. Stage 2 kerbs are cast in casting yard in accordance with casting sequence note, reinforcing as per Standard Drawing 2045. Infill end zones of kerb shall be cast on site. This standard drawing is not suitable for complex horizontal or vertical geometry. This standard drawing shall only be used for kerbs with single conduit arrangements.
- NOTES FOR PRECAST KERBS are as follows:
 STAGE 1 PSC OUTER DECK UNIT: As per TMR Standard Drawings for PSC Deck Units – General Arrangement and Notes, except for CAST-IN LIFTING HOOP ANCHOR NOTES as provided in this drawing.
 STAGE 2 KERBS: As per TMR Standard Drawing 2045 Bridge Kerbs – Standard Details of Cast Insitu Kerbs for Transversely Stressed PSC Deck Units, except for the following:
 – Construction of Stage 2 Precast Kerbs shall be to MRTS70.
 – Concrete S50/20.
 – Minimum cover to reinforcing steel shall be 50mm.
 – Casting Sequence Notes as provided in this drawing.

ASSOCIATED DOCUMENTS:

Design Criteria for Bridges and Other Structures

REFERENCED DOCUMENTS:

- Departmental Standard Drawings:
- 1043 Reinforcing Steel – Standard Bar Shapes
 - 1044 Reinforcing Steel – Lap lengths
 - 2045 Bridge Kerbs – Standard Details Cast Insitu Kerbs for Transversely Stressed Bridges
 - 2200 Bridge Traffic Barriers – Post and Rail Traffic Barriers Regular Performance Level
- Departmental Specifications:
- MRTS70 Concrete
 - MRTS71 Reinforcing Steel
 - MRTS73 Manufacture of Prestressed Concrete and Stressing Units

CASTING SEQUENCE NOTES:

Stage 1 units shall be removed from moulds once transfer strength has been achieved, using lifting hoop ① and ②. Cut lifting hoop ① after lifting. Stage 2 kerbs shall be poured a minimum of 30 days after Stage 1. Use lifting hoop ② and ③ for lifting.

CAST-IN LIFTING HOOP ANCHOR NOTES:

- CAST-IN LIFTING HOOPS shall be designed and certified in accordance with MRTS73.
- Fluted protection tubes/pullies may be used to increase the bearing surface of the hoops.
- The embedment depth of hoops shall be such that the hoops avoid being within the strand zone in the bottom of the deck unit.
- Only hoops as lifting anchors are shown in this standard drawing. Other alternative anchor types may be designed and certified to meet the design anchor capacity requirements.
- CAST-IN HOOP CAPACITY: The minimum ultimate characteristic cast-in hoop anchor capacity shall be as per Lifting Details table. These lifting capacities per hoop were determined for the lifting arrangements shown in this standard drawing. This is based on dynamic factor of 2.0, lifting sling angle of 60° and FOS of 4.0.
- After lifting hoop is no longer required, cut-off and grind flush with top of deck unit, apply three coats of approved surface tolerant epoxy to provide a minimum dry film thickness of 0.3 mm. (Not required for lifter within infill zone of the kerb)

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<p>PRECAST UNITS</p> <p>PRECAST KERBS FOR OUTER DECK UNITS FOR TRANSVERSELY STRESSED BRIDGES WITH REGULAR PERFORMANCE TRAFFIC BARRIERS</p>		
A3	Standard Drawing No	<p>2046</p> <p>Date 7/19</p>
Not to Scale		