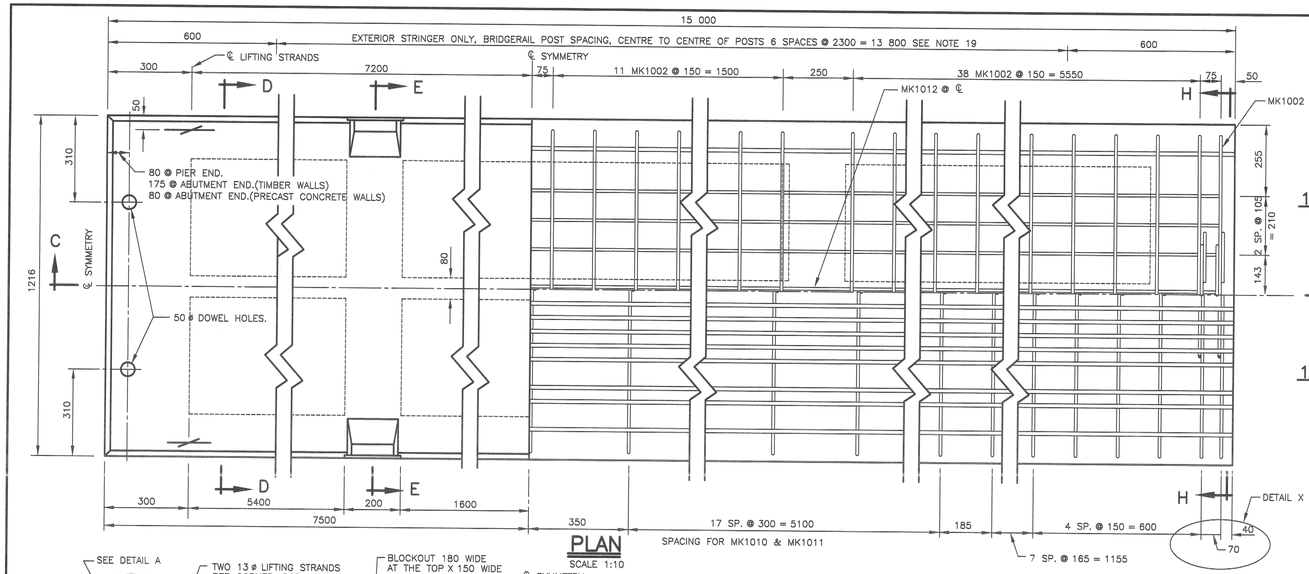
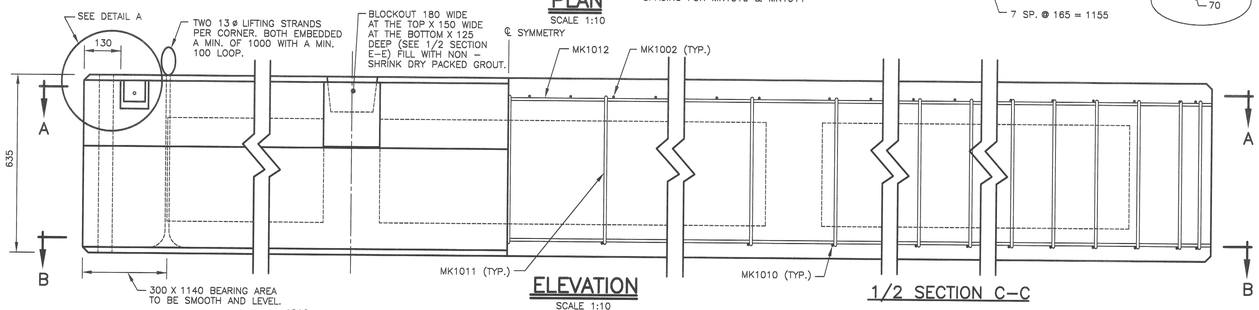
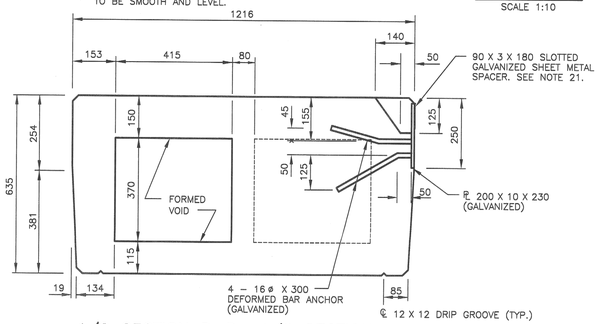


PLAN
SCALE 1:10

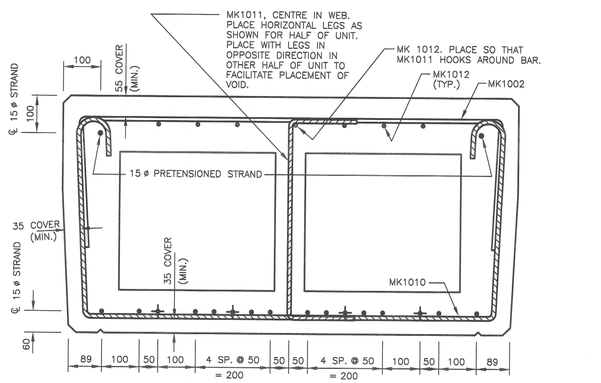


ELEVATION
SCALE 1:10

1/2 SECTION C–C

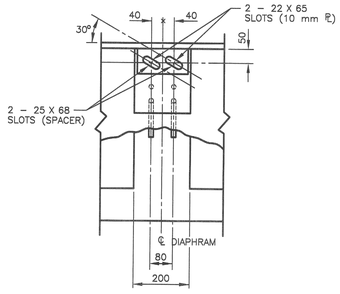


1/2 SECTION D–D 1/2 SECTION E–E
SCALE 1:10

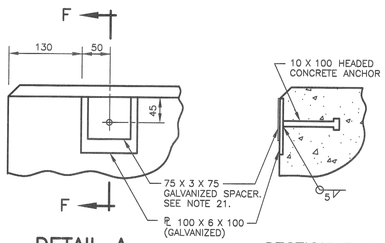


SECTION D–D
SCALE 1:7.5

NOTE: ALL STRANDS SHALL BE PRETENSIONED. DEBOND END 1500 OF STRANDS DESIGNATED WITH + (TYP. BOTH ENDS)

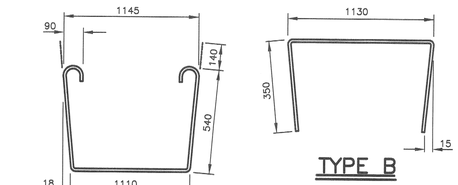


STRINGER CONNECTOR DETAILS
SCALE 1:10



DETAIL A SECTION F–F
SCALE 1:5

NOTE: USE SPACER ON BOTH SIDES OF THE STRINGER AT EACH END. OMIT ON EXTERIOR SIDE OF EXTERIOR STRINGER.

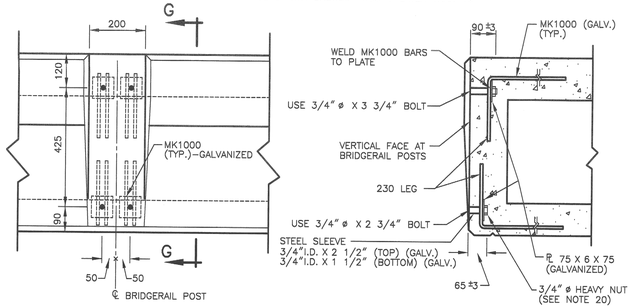


1/4 SECTION A–A

1/4 SECTION B–B

C

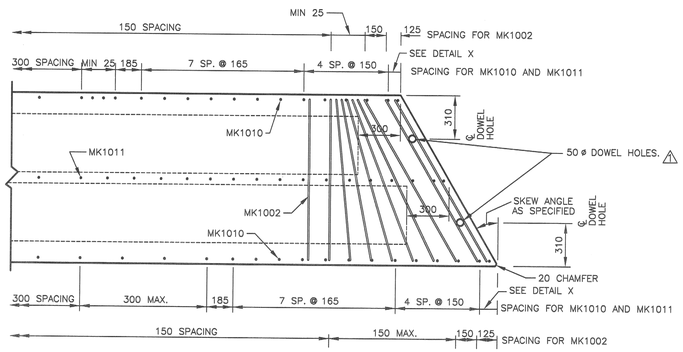
NOTE: MINIMUM DISTANCE FROM END OF STRINGER TO ℄ BRIDGERAIL POST
=120 mm FOR STRINGERS WITH SQUARE ENDS OR SKEWED ENDS UP TO 15°
=410 mm FOR STRINGERS WITH SKEWED ENDS GREATER THAN 15°



ELEVATION

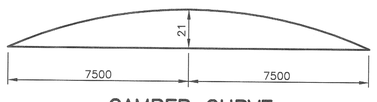
SECTION G–G

BRIDGERAIL ANCHOR DETAILS
SCALE 1:10



SKEWED STRINGER
SCALE 1:20

NOTES:
1. SKEW MK1000 ON END POST ANCHORS.
2. SKEWED BAR DIMENSIONS SHALL SUIT SKEW.
3. ADDITIONAL MK1010, MK1002 AND MK1011 SHALL BE ADDED AS REQUIRED TO MAINTAIN MAXIMUM SPACING.
4. ALL OTHER DETAILS SHALL CONFORM TO THOSE SHOWN FOR SQUARE STRINGER.
5. FOR SKEWED UNITS, THE LIFTING STRANDS AT THE OBTUSE CORNER SHALL BE LOCATED 300 mm FROM THE END OF THE UNIT. THE STRANDS AT THE ACUTE CORNER SHALL BE SHIFTED AS REQUIRED TO PROVIDE A PERPENDICULAR OR "SQUARE" ALIGNMENT.

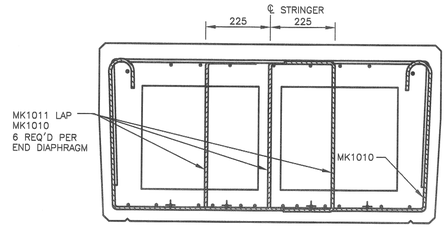


CAMBER CURVE
(24 HOURS AFTER TRANSFER)
NTS

REINFORCING SCHEDULE

MARK NO.	SIZE	NO.	TYPE	LENGTH	TOTAL LENGTH	GRADE	MASS kg
1000	10 M	56	C	530	29 680	400	24
1002	10 M	100	B	1830	183 000	400	144
1010	10 M	63	A	2470	155 610	400	122
1011	10 M	71	D	895	63 545	400	50
1012	10 M	14	STR.	7 700	107 800	400	85
STRANDS	15 ø	18	STR.	15 000	270 000	1860	299

NOTE:
ALL REINFORCING DIMENSIONS ARE OUT TO OUT



SECTION H–H
SCALE 1:10

NOTES:
1. Design Specifications – CAN/CSA–S6–06
2. Design Loading – Live Load CL–750
   – Load Factors 1.2D + 1.5D(surfacing) + 1.7L
   – Dead Load includes 80 mm of asphalt
3. Concrete for stringers shall be standard weight containing Type GU General Use Portland cement with silica fume and 6% ± 1% entrained air. Maximum aggregate size shall be 20 mm.
4. Concrete shall attain a minimum 28 day compressive strength of 35 Mpa.
5. The compressive strength of job cured standard cylinders shall be 27 MPa before the prestressing force is transferred.
6. Prestressing strands shall conform to the requirements of CSA Standard G279–M, Grade 1860 with a low relaxation property.
7. Initial tensioning force shall be 185 kN per 15 ø strand.
8. Stringer length shown is the dimension to be achieved after transfer of the prestressing force.
9. Reinforcing steel shall be fabricated from deformed bars conforming to the requirements of CAN/CSA–G30.18–M, Grade 400.
10. Diameters of all hooks and bends unless otherwise noted, shall conform to the recommended sizes in CAN/CSA–S6–06.
11. Structural steel shall conform to the requirements of CAN/CSA–G40.21, Grade 300W.
12. Welding of reinforcing steel will not be permitted without the written approval of the Engineer.
13. All welding shall conform to the requirements of CSA Standard W59.
14. Galvanizing shall conform to the requirements of CSA Standard G164.
15. Construction procedures shall conform to Specification 7800 For The Fabrication Of Precast Concrete Bridge Units And Barriers.
16. All exposed corners shall have a 20 mm chamfer.
17. Exterior face of exterior stringers shall be finished to a smooth uniform colour and texture. Other surfaces shall have all pockets filled and all fins removed.
18. Bridgerail and connector bolts are not a part of this contract. All other hardware shown shall be supplied by the fabricator.
19. The bridgerail post spacing shown is for a single span bridge with a Type 4 steel bridgerail. For multiple span bridges using a Type 4 steel bridgerail, a revised spacing will be provided with the order. The anchor details shown will not be used with a concrete curb or concrete traffic barrier
20. The 3/4" ø heavy nuts for the bridgerail anchor shall be heavy hex nuts conforming to the requirements of ASTM specification A563, Grade DH. Nuts shall be galvanized and taped oversized in accordance with ASTM Specification A563.
21. Galvanized spacers shall be attached by welding or other approved procedure.
22. All dimensions are in millimetres unless noted otherwise.

QUANTITIES

ITEM	TOTAL QUANTITY
CONCRETE (STANDARD WEIGHT)	7.1 m^3
PRESTRESSING STRANDS (Grade 1860 MPa)	299 kg
REINFORCING STEEL (Grade 400 MPa)	425 kg

NO.	DATE	DESCRIPTION
⚠	08–JULY–2013	CORRECT DOWEL HOLE SIZE

REVISIONS

Government of Saskatchewan
Ministry of Highways & Infrastructure

BRIDGE STANDARDS

STANDARD PRECAST PRESTRESSED CONCRETE STRINGER

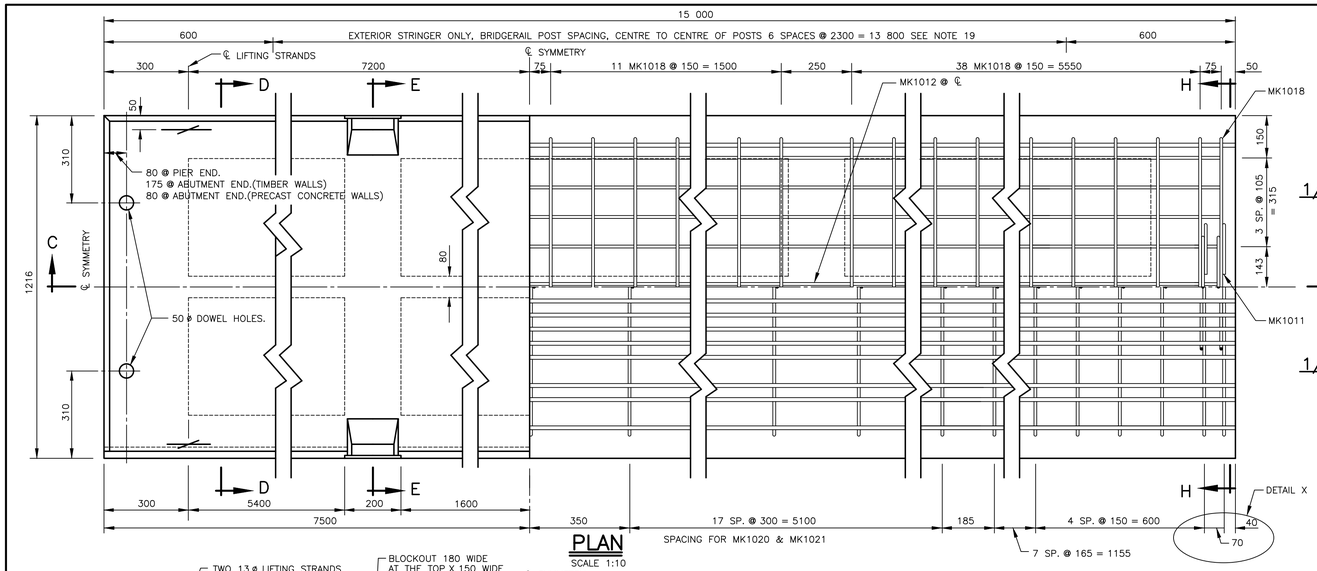
15 METRE BOX

RECOMMENDED BY: SENIOR BRIDGE DESIGN ENGINEER — DATE 15–Jul–2013
APPROVED BY: DIRECTOR, BRIDGE STANDARDS — DATE 1–Oct–2013

DESIGN	DRAWN	CHECKED	FILE
S.A.	S.A.	G.L.	
DATE 02–Jan.–2013	DATE 23–Jan.–2013	DATE 24–Jan.–2013	PLAN BS104

Sheet 1 of 1

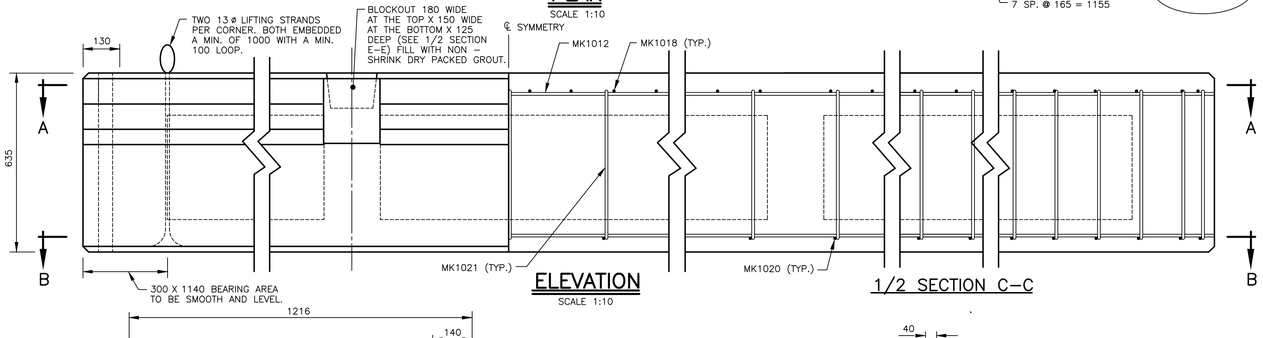
LAST REVISED DATE: 12–JULY–2013 09:02 AM



PLAN
SCALE 1:10

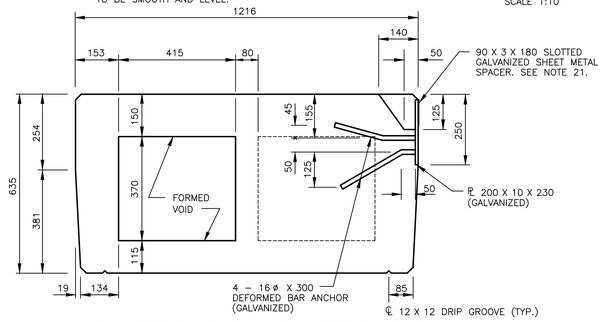
1/4 SECTION A–A

1/4 SECTION B–B

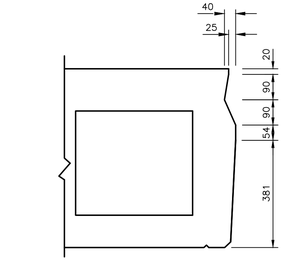


ELEVATION
SCALE 1:10

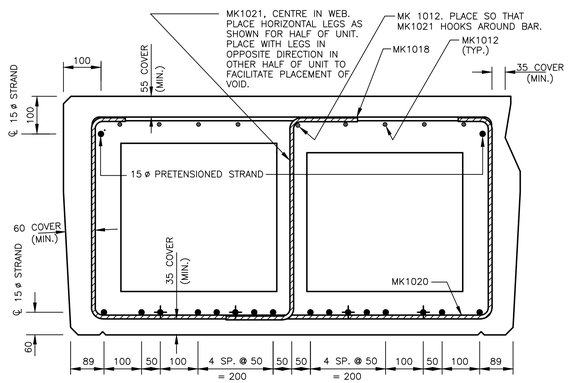
1/2 SECTION C–C



1/2 SECTION D–D 1/2 SECTION E–E
SCALE 1:10

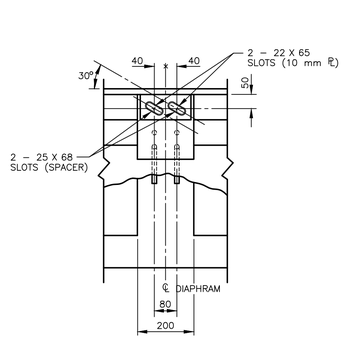


SHEAR KEY DETAILS
SCALE 1:10

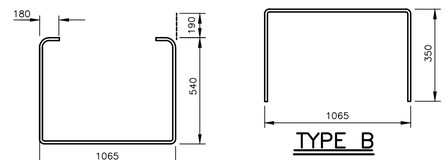


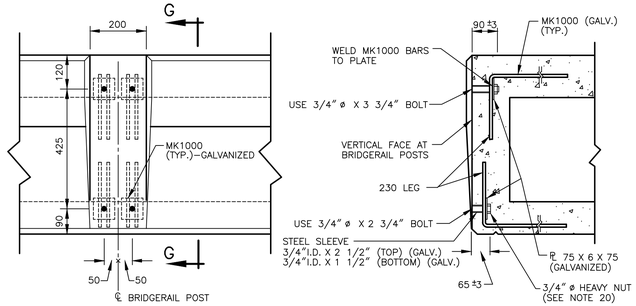
SECTION D–D
SCALE 1:7.5

NOTE: ALL STRANDS SHALL BE PRETENSIONED. DEBOND END 1500 OF STRANDS DESIGNATED WITH + (TYP. BOTH ENDS)

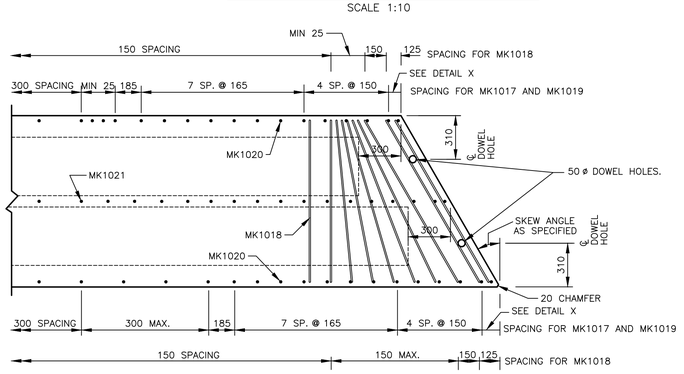


STRINGER CONNECTOR DETAILS
SCALE 1:10



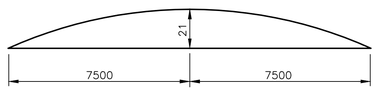


BRIDGERAIL ANCHOR DETAILS
SCALE 1:10



SKEWED STRINGER
SCALE 1:20

NOTES:
1. SKEW MK1000 ON END POST ANCHORS.
2. SKEWED BAR DIMENSIONS SHALL SUIT SKEW.
3. ADDITIONAL MK1018, MK1020, AND MK1021 SHALL BE ADDED AS REQUIRED TO MAINTAIN MAXIMUM SPACING.
4. ALL OTHER DETAILS SHALL CONFORM TO THOSE SHOWN FOR SQUARE STRINGER.
5. FOR SKEWED UNITS, THE LIFTING STRANDS AT THE OBTUSE CORNER SHALL BE LOCATED 300 mm FROM THE END OF THE UNIT. THE STRANDS AT THE ACUTE CORNER SHALL BE SHIFTED AS REQUIRED TO PROVIDE A PERPENDICULAR OR "SQUARE" ALIGNMENT.

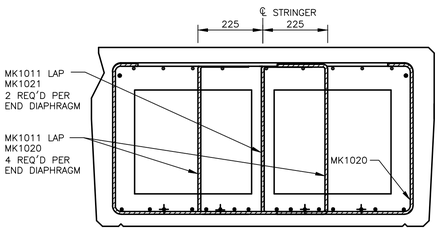


CAMBER CURVE
(24 HOURS AFTER TRANSFER)
NTS

REINFORCING SCHEDULE

MARK NO.	SIZE	NO.	TYPE	LENGTH	TOTAL LENGTH	GRADE	MASS kg
1000	10 M	56	C	530	29 680	400	24
1011	10 M	8	D	895	7 160	400	7
1012	10 M	18	STR.	7 700	138 600	400	110
1018	10 M	100	B	1765	176 500	400	142
1020	10 M	63	A	2525	159 075	400	126
1021	10 M	63	E	895	56 385	400	46
STRANDS	15 ø	18	STR.	15 000	270 000	1860	299

NOTE:
ALL REINFORCING DIMENSIONS ARE OUT TO OUT



SECTION H–H
SCALE 1:10

NOTES:
1. Design Specifications – CAN/CSA–S6–14
2. Design Loading – Live Load CL–750
   – Load Factors 1.2D + 1.5D(surfacing) + 1.7L
   – Dead Load includes 80 mm of asphalt
3. Concrete for stringers shall be standard weight containing Type GU General Use Portland cement with silica fume and 6% ± 1 % entrained air. Maximum aggregate size shall be 20 mm.
4. Concrete shall attain a minimum 28 day compressive strength of 35 Mpa.
5. The compressive strength of job cured standard cylinders shall be 27 MPa before the prestressing force is transferred.
6. Prestressing strands shall conform to the requirements of CSA Standard G279–M, Grade 1860 with a low relaxation property.
7. Initial tensioning force shall be 185 kN per 15 ø strand.
8. Stringer length shown is the dimension to be achieved after transfer of the prestressing force.
9. Reinforcing steel shall be fabricated from deformed bars conforming to the requirements of CAN/CSA–G30.18–M, Grade 400.
10. Diameters of all hooks and bends unless otherwise noted, shall conform to the recommended sizes in CAN/CSA–S6–14.
11. Structural steel shall conform to the requirements of CAN/CSA–G40.21, Grade 300W.
12. Welding of reinforcing steel will not be permitted without the written approval of the Engineer.
13. All welding shall conform to the requirements of CSA Standard W59.
14. Galvanizing shall conform to the requirements of CSA Standard G164.
15. Construction procedures shall conform to Specification 7800 For The Fabrication Of Precast Concrete Components.
16. All exposed corners shall have a 20 mm chamfer.
17. Exterior face of exterior stringers shall be finished to a smooth uniform colour and texture. Other surfaces shall have all pockets filled and all fins removed.
18. Bridgerail and connector bolts are not a part of this contract. All other hardware shown shall be supplied by the fabricator.
19. The bridgerail post spacing shown is for a single span bridge with a Type 4 steel bridgerail. For multiple span bridges using a Type 4 steel bridgerail, a revised spacing will be provided with the order. The anchor details shown will not be used with a concrete curb or concrete traffic barrier
20. The 3/4" ø heavy nuts for the bridgerail anchor shall be heavy hex nuts conforming to the requirements of ASTM specification A563, Grade DH. Nuts shall be galvanized and taped oversized in accordance with ASTM Specification A563.
21. Galvanized spacers shall be attached by welding or other approved procedure.
22. All dimensions are in millimetres unless noted otherwise.

QUANTITIES

ITEM	TOTAL QUANTITY
CONCRETE (STANDARD WEIGHT)	7.1 m^3
PRESTRESSING STRANDS (Grade 1860 MPa)	299 kg
REINFORCING STEEL (Grade 400 MPa)	455 kg

Government of Saskatchewan
Ministry of Highways & Infrastructure

BRIDGE STANDARDS

STANDARD PRECAST PRESTRESSED CONCRETE STRINGER

15 METRE BOX

RECOMMENDED BY: _____ SENIOR BRIDGE ENGINEER _____ DATE

APPROVED BY: _____ DIRECTOR, BRIDGE DESIGN AND CONSTRUCTION _____ DATE

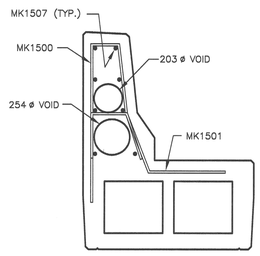
DESIGN	DRAWN	CHECKED	FILE
D.P.	D.P.	A.H.	
DATE	DATE	DATE	PLAN
23–Nov.–2017	23–Nov.–2017	27–Sep.–2019	BS109

NO.	DATE	DESCRIPTION
2		
1		

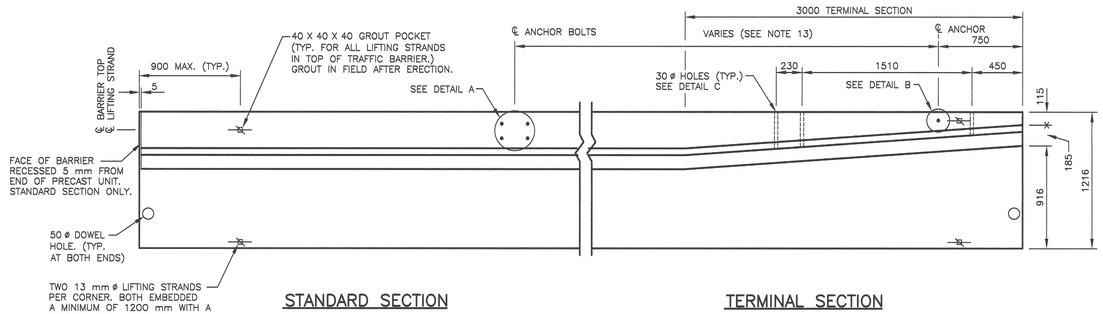
REVISIONS

Sheet 1 of 1

LAST REVISED DATE: 27–SEP–2019 08:31 AM



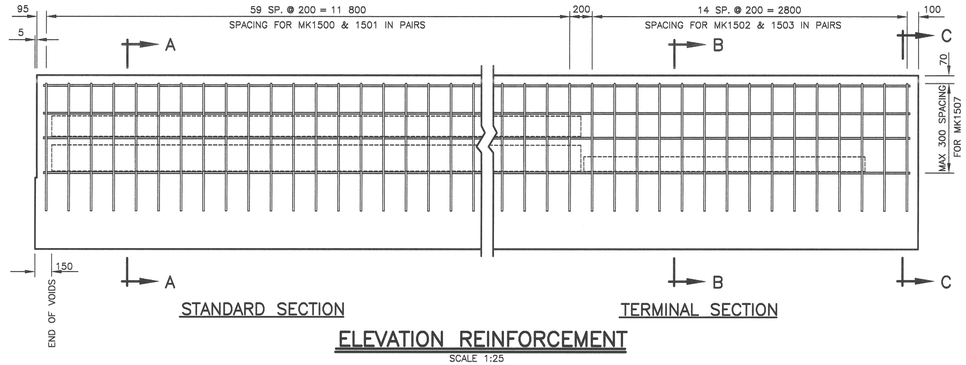
SECTION A–A
SCALE 1:20



STANDARD SECTION

TERMINAL SECTION

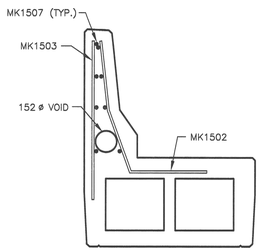
PLAN
SCALE 1:25



STANDARD SECTION

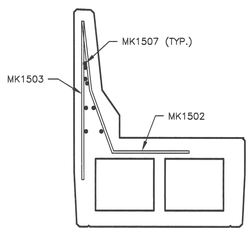
TERMINAL SECTION

ELEVATION REINFORCEMENT
SCALE 1:25

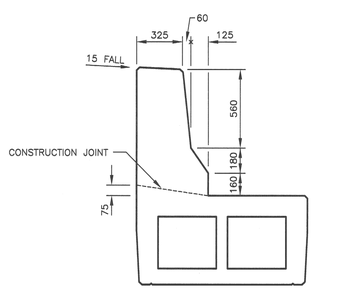


SECTION B–B
SCALE 1:20

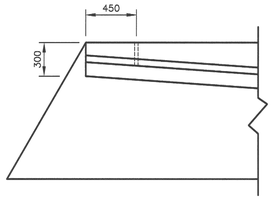
NOTE: HORIZONTAL LEGS OF MK1501 & MK1502 SHALL BE UNDERNEATH LONGITUDINAL STEEL IN PRECAST UNIT.



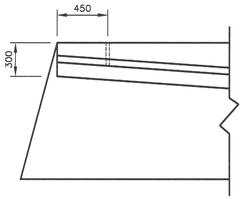
SECTION C–C
SCALE 1:20



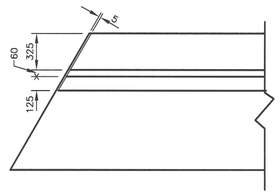
STANDARD CROSS SECTION
SCALE 1:20



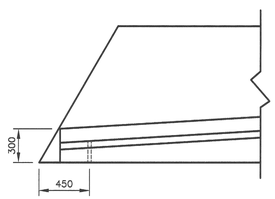
30° SKEW – TERMINAL SECTION



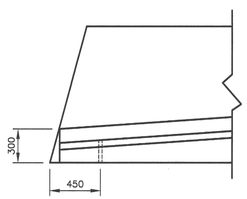
15° SKEW – TERMINAL SECTION



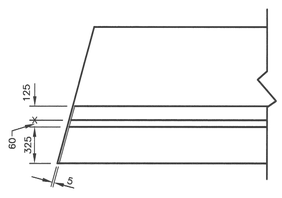
30° SKEW – STANDARD SECTION



30° SKEW – TERMINAL SECTION

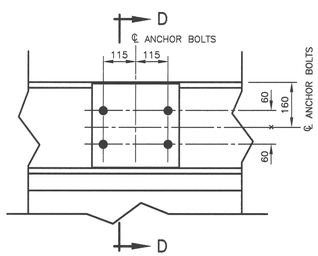


15° SKEW – TERMINAL SECTION



15° SKEW – STANDARD SECTION

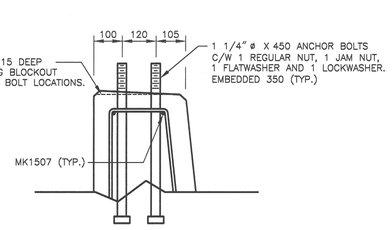
SKEWED END TREATMENT
SCALE 1:25



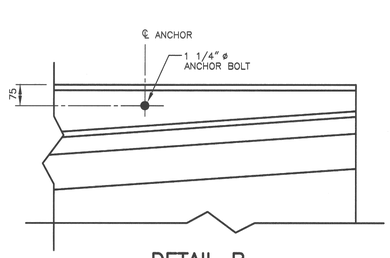
PLAN

DETAIL A
SCALE 1:10

NOTE: ANCHORS SHALL BE INSTALLED VERTICALLY



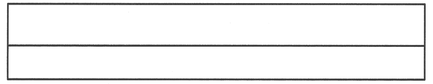
SECTION D–D



DETAIL B
SCALE 1:10

REINFORCING SCHEDULES

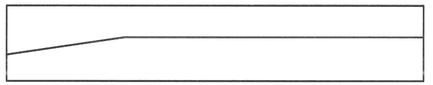
NOTE: ALL DIMENSIONS ARE OUT TO OUT



MARK	TYPE	NO.	TYPE	LENGTH	TOTAL LENGTH	GRADE	MASS (kg)
1500	15 M	75	A	1860	139 500	400	219
1501	15 M	75	B	1910	143 250	400	225
1507	15 M	8	STR.	14 860	118 880	400	187

NOTE: USE FOR INTERIOR SPANS ONLY. 0° SKEW. SEE NOTE 19.

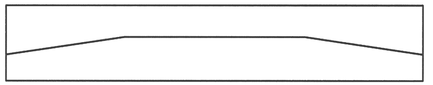
TYPE I
(STANDARD SECTION FULL LENGTH)



MARK	TYPE	NO.	TYPE	LENGTH	TOTAL LENGTH	GRADE	MASS (kg)
1500	15 M	60	A	1860	111 600	400	175
1501	15 M	60	B	1910	114 600	400	180
1502	15 M	15	C	1505	22 575	400	35
1503	15 M	15	STR.	1130	16 950	400	27
1507	15 M	8	STR.	14 860	118 880	400	187

NOTE: USE FOR END SPANS ONLY. 0° SKEW. SEE NOTE 19. REQUIRE 1 RIGHT HAND AND 1 LEFT HAND PER SIDE. RIGHT HAND AS SHOWN.

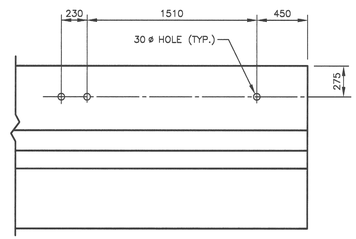
TYPE II
(TERMINAL SECTION ONE END)



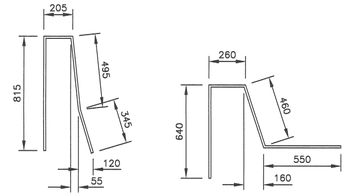
MARK	TYPE	NO.	TYPE	LENGTH	TOTAL LENGTH	GRADE	MASS (kg)
1500	15 M	45	A	1860	83 700	400	131
1501	15 M	45	B	1910	85 950	400	135
1502	15 M	30	C	1505	45 150	400	71
1503	15 M	30	STR.	1130	33 900	400	53
1507	15 M	8	STR.	14 860	118 880	400	187

NOTE: USE FOR SINGLE SPAN BRIDGES ONLY. 0° SKEW. SEE NOTE 19.

TYPE III
(TERMINAL SECTION BOTH ENDS)

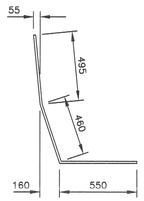


DETAIL C
SCALE 1:25



TYPE A

TYPE B



TYPE C

NOTES:
1. Design Specifications – CAN/CSA–S6–06.
2. Performance Level PL–2.
3. Concrete for barriers shall be standard weight containing Type GU, General Use Portland cement with silica fume and 6% ± 1% entrained air. Maximum aggregate size shall be 20 mm.
4. Concrete shall attain a minimum 28 day compressive strength of 35 Mpa.
5. Reinforcing steel shall be fabricated from deformed bars conforming to the requirements of CAN/CSA–G30.18–M, Grade 400.
6. Diameters of hooks and bends, unless otherwise noted, shall conform to the recommended sizes in CAN/CSA–S6–06.
7. Girder units shall be exterior units as per Standard Plan BS104 modified to include a traffic barrier as noted on this plan.
8. A midspan camber of 5 mm shall be cast into the top of the traffic barrier.
9. Barrier reinforcement shall be free of concrete mortar before barrier forms are set in place.
10. Prior to casting the barrier, the top surface of the precast unit shall be horizontal in a transverse direction with both ends of the unit at the same elevation. The unit shall be continuously supported throughout its length until the concrete in the barrier has attained a compressive strength of 15 MPa.
11. All surfaces of traffic barrier shall be finished to a smooth uniform colour and texture.
12. Barrier units shall have provision for only one dowel hole at each end.
13. Bridgerail anchor details on Standard Plan BS104 do not apply to barrier units. Bridgerail anchor details shall be as shown on this sheet. Anchor spacing shall be as specified in the order.
14. The 1 1/4" ø headed anchor bolts shall conform to the requirements of CAN/CSA–G40.21–M, Grade 300, and shall be galvanized. All galvanizing shall conform to the requirements of CSA Standard G164.
15. Quantities shown are for the traffic barrier. These quantities are additional to those shown on Standard Plan BS104.
16. All voids shall be formed with Norlux Fibre–Forms or equivalent. Ends of the voids shall be capped.
17. Minimum clear cover for the reinforcing steel in the traffic face and top surface of the barrier shall be 70 mm. Minimum clear cover for the reinforcing steel in the rear face of the barrier shall be 55 mm.
18. All exposed corners shall have a 20 mm chamfer.
19. For skewed units, Type A, Type B and Type C bars shall be detailed and spaced as required.
20. All dimensions are in millimetres unless noted otherwise.

QUANTITIES

ITEM		QUANTITY		
		TYPE I	TYPE II	TYPE III
REINFORCING STEEL		631 kg	604 kg	577 kg
CONCRETE		4.4 m^3	4.2 m^3	3.9 m^3
VOIDS	254 ø	14 700	11 850	9000
	203 ø	14 700	11 850	9000
	152 ø	––	2450	4900

Government of Saskatchewan
Ministry of Highways & Infrastructure

BRIDGE STANDARDS

15 METRE BOX GIRDER
STANDARD BARRIER UNITS

RECOMMENDED BY: SENIOR BRIDGE DESIGN ENGINEER — DATE 29-May-2013

APPROVED BY: DIRECTOR, BRIDGE STANDARDS — DATE 29 May 2013

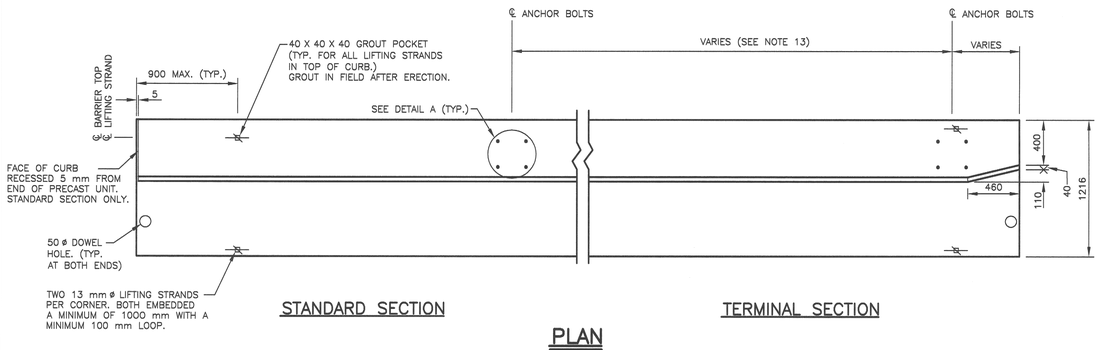
DESIGN	DRAWN	CHECKED	FILE
G.L.	S.A.	A.H.	
DATE 27–Feb–2013	DATE 28–Feb–2013	DATE 14–Mar–2013	PLAN BS204

Sheet 1 of 1

NO.	DATE	DESCRIPTION

REVISIONS

LAST REVISED DATE: 08–MAY–2013 3:30 PM

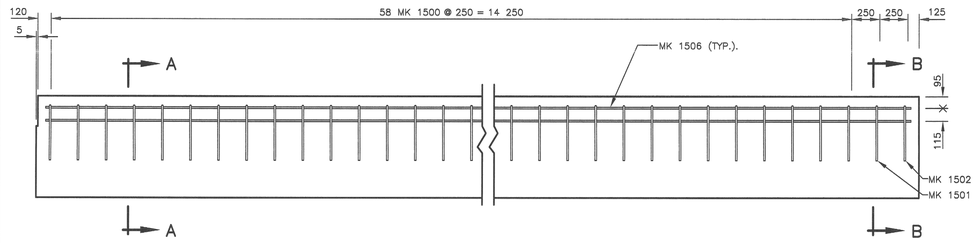


STANDARD SECTION

TERMINAL SECTION

PLAN

SCALE 1:25

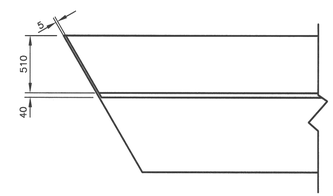


STANDARD SECTION

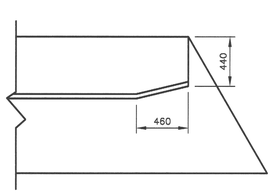
TERMINAL SECTION

ELEVATION REINFORCEMENT

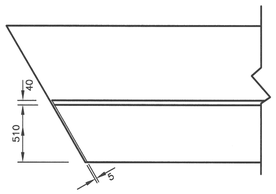
SCALE 1:25



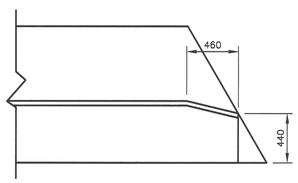
SKEWED END – STANDARD SECTION



SKEWED END – TERMINAL SECTION



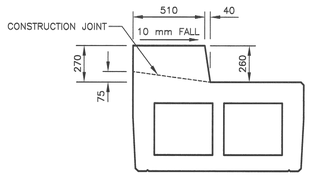
SKEWED END – STANDARD SECTION



SKEWED END – TERMINAL SECTION

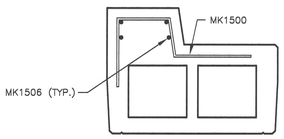
SKEWED END TREATMENT

SCALE 1:25



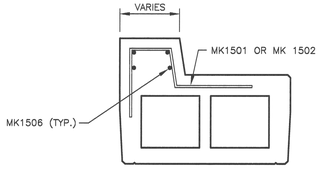
STANDARD CROSS SECTION

SCALE 1:20



SECTION A–A

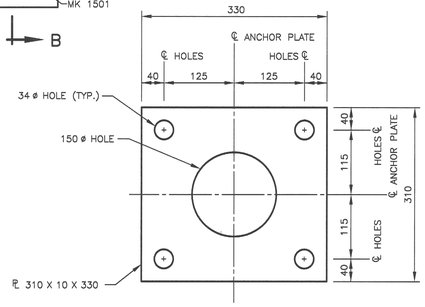
SCALE 1:20



SECTION B–B

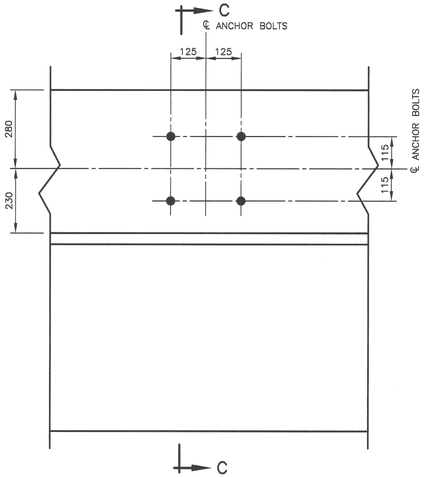
SCALE 1:20

NOTE: HORIZONTAL LEG OF MK1500 SHALL BE UNDERNEATH LONGITUDINAL STEEL IN PRECAST UNIT.



ANCHOR PLATE DETAILS

SCALE 1:5



PLAN

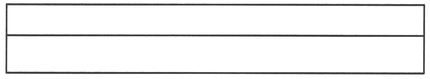
DETAIL A

SCALE 1:10

NOTE: ANCHORS SHALL BE INSTALLED VERTICALLY

REINFORCING SCHEDULES

NOTE: ALL DIMENSIONS ARE OUT TO OUT

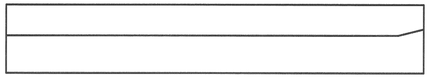


MARK	TYPE	NO.	TYPE	A	LENGTH	TOTAL LENGTH	GRADE	MASS (kg)
1500	15 M	60	A	380	1 690	101 400	400	160
1506	15 M	4	STR.	–	14 850	59 400	400	94

NOTE: USE FOR INTERIOR SPANS ONLY. 0° SKEW. SEE NOTE 19.

TYPE I

(STANDARD SECTION FULL LENGTH)

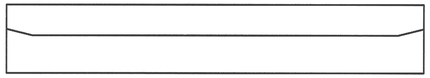


MARK	TYPE	NO.	TYPE	A	LENGTH	TOTAL LENGTH	GRADE	MASS (kg)
1500	15 M	58	A	380	1 690	98 020	400	154
1501	15 M	1	A	360	1 670	1 670	400	3
1502	15 M	1	A	295	1 605	1 605	400	3
1506	15 M	4	STR.	–	14 850	59 400	400	94

NOTE: USE FOR END SPANS ONLY. 0° SKEW. SEE NOTE 19. REQUIRE 1 RIGHT HAND AND 1 LEFT HAND PER SIDE. RIGHT HAND AS SHOWN.

TYPE II

(TERMINAL SECTION ONE END)

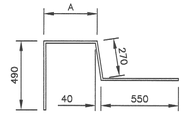


MARK	TYPE	NO.	TYPE	A	LENGTH	TOTAL LENGTH	GRADE	MASS (kg)
1500	15 M	56	A	380	1 690	94 640	400	149
1501	15 M	2	A	360	1 670	3 340	400	5
1502	15 M	2	A	295	1 605	3 210	400	5
1506	15 M	4	STR.	–	14 850	59 400	400	94

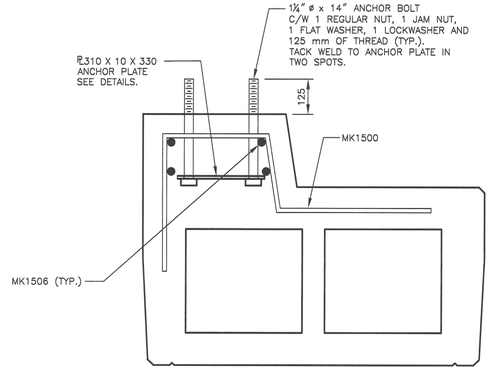
NOTE: USE FOR SINGLE SPAN BRIDGES ONLY. 0° SKEW. SEE NOTE 19.

TYPE III

(TERMINAL SECTION BOTH ENDS)



TYPE A



SECTION C–C

NOTES:
1. Design Specifications – CAN/CSA–S6–06.
2. Performance Level PL–2 when used in conjunction with a Standard Type 5 steel bridgerail.
3. Concrete for curbs shall be standard weight containing Type GU, General Use Portland cement with silica fume and 6% ± 1% entrained air. Maximum aggregate size shall be 20 mm.
4. Concrete shall attain a minimum 28 day compressive strength of 35 MPa.
5. Reinforcing steel shall be fabricated from deformed bars conforming to the requirements of CAN/CSA–G30.18–M, Grade 400.
6. Diameters of bends in reinforcing shall conform to the recommended sizes in CAN/CSA–S6–06.
7. Girder units shall be exterior units as per Standard Plan BS104 modified to include a traffic curb as noted on this plan.
8. A midspan camber of 5 mm shall be cast into the top of the traffic curb.
9. Curb reinforcement shall be free of concrete mortar before curb forms are set in place.
10. Prior to casting the curb, the top surface of the precast unit shall be horizontal in the transverse direction with both ends of the unit at the same elevation. The unit shall be continuously supported throughout its length until the concrete in the curb has attained a compressive strength of 15 MPa.
11. All surfaces of the traffic curb shall be finished to a smooth uniform colour and texture.
12. Curb units shall have provision for only one dowel hole at each end.
13. Bridgerail anchor details on Standard Plan BS104 do not apply to curb units. Bridgerail anchor details shall be as shown on this plan. Anchor spacing shall be as specified in the order.
14. The 1 ¼" ø headed anchor bolts shall conform to the requirements of ASTM Specification A307 and shall be galvanized. All galvanizing shall conform to the requirements of CSA Standard G164.
15. Anchor plates shall be fabricated from structural steel conforming to the requirements of CAN/CSA–G40.21, Grade 300W.
16. Quantities shown are for the traffic curb. These quantities are in addition to those shown on Standard Plan BS104.
17. Minimum clear cover for the reinforcing steel in the traffic face, top surface and rear face of the traffic curb shall be 70 mm.
18. All exposed corners shall have a 20 mm chamfer.
19. For skewed units, Type A bars shall be detailed and spaced as required.
20. All dimensions are in millimeter unless noted otherwise.

QUANTITIES

ITEM	QUANTITY		
	TYPE I	TYPE II	TYPE III
REINFORCING STEEL	254 kg	254 kg	253 kg
CONCRETE	2.1 m^3	2.1 m^3	2.1 m^3

Government of Saskatchewan
Ministry of Highways & Infrastructure

BRIDGE STANDARDS

15 METRE BOX GIRDER STANDARD CURB UNITS

RECOMMENDED BY: SENIOR BRIDGE DESIGN ENGINEER. DATE 24-May-2013

APPROVED BY: DIRECTOR, BRIDGE STANDARDS. DATE 27 May 2013

DESIGN	DRAWN	CHECKED	FILE
G.L.	S.A.	A.H.	
DATE 27–Feb–2013	DATE 27–Feb–2013	DATE 14–Mar–2013	PLAN BS304

NO.	DATE	DESCRIPTION

REVISIONS

Sheet 1 of 1

LAST REVISED DATE: 08–MAY–2013 3:30 PM