

GENERAL NOTES

- ALL DRAWINGS ARE DIMENSIONED IN MILLIMETRES.
- THIS DESIGN IS APPLICABLE FOR BOTH FINISHED CONCRETE TO GRADE AND ACP WEARING SURFACE ON ASPHALT MEMBRANE WATERPROOFING.
- FOR DETAILS OF DECK WATER PROOFING SYSTEM WITH 80mm TWO COURSE HOT MIX ASPHALTIC CONCRETE PAVEMENT SEE DWG. S-1443.
- ALL REFERENCES TO OTHER STANDARD DRAWINGS REFER TO THE LATEST REVISION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATION FOR BRIDGE CONSTRUCTION LATEST VERSION.

DESIGN

- THIS DESIGN IS APPLICABLE TO SPAN ARRANGEMENTS BASED ON THE FOLLOWING COMBINATIONS OF GIRDER LENGTHS:

SPAN ARRANGEMENT TABLE									
N/A	8m	N/A	10m	N/A	12m	N/A	14m	N/A	16m
A	8-8-8m	A	10-10-10m	A	12-12m	B	14-14m	B	16-16-16m
A	8-10-8m	A	10-12-10m	A	12-12-12m	B	14-14-14m		
A	8-12-8m	A	10-14-10m	B	12-14-12m	B	14-16-14m		
A	8-14-8m	A	10-16-10m	B	12-16-12m				

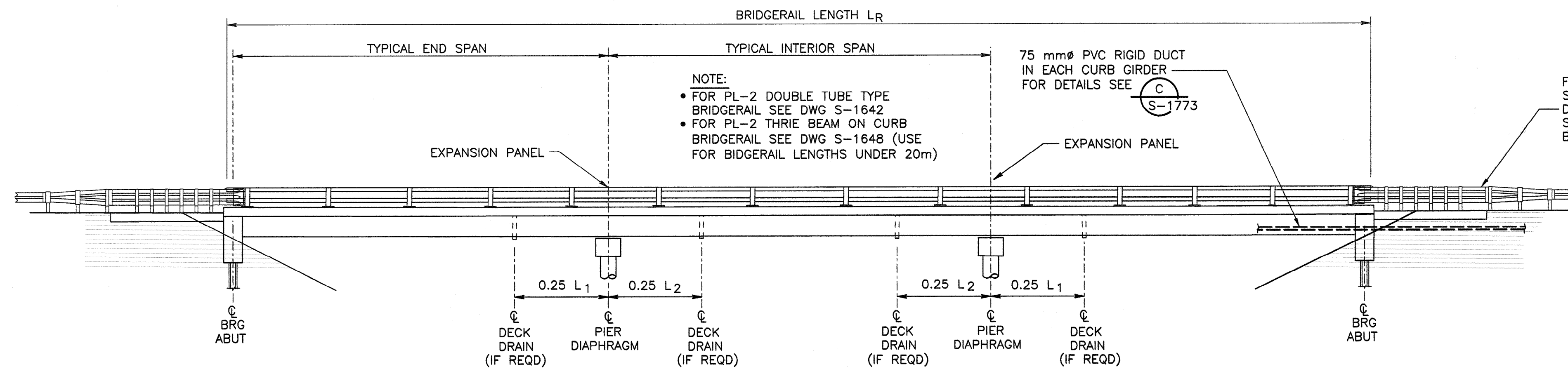
- STANDARD SKEW ANGLES: 0°, 15°, 30° & 40°
- CAN/CSA-S6-06 SPECIFICATIONS
- LIVE LOAD - CL-800 WHEEL LINES PER GIRDER
SLS/ULS - MID SPAN=0.66 SUPPORT=0.73
FLS - MID SPAN=0.35 SUPPORT=0.38
- DEAD LOAD
-SEE DWG S-1774 FOR DEAD LOAD TABLE

SITE SPECIFIC REQUIREMENTS

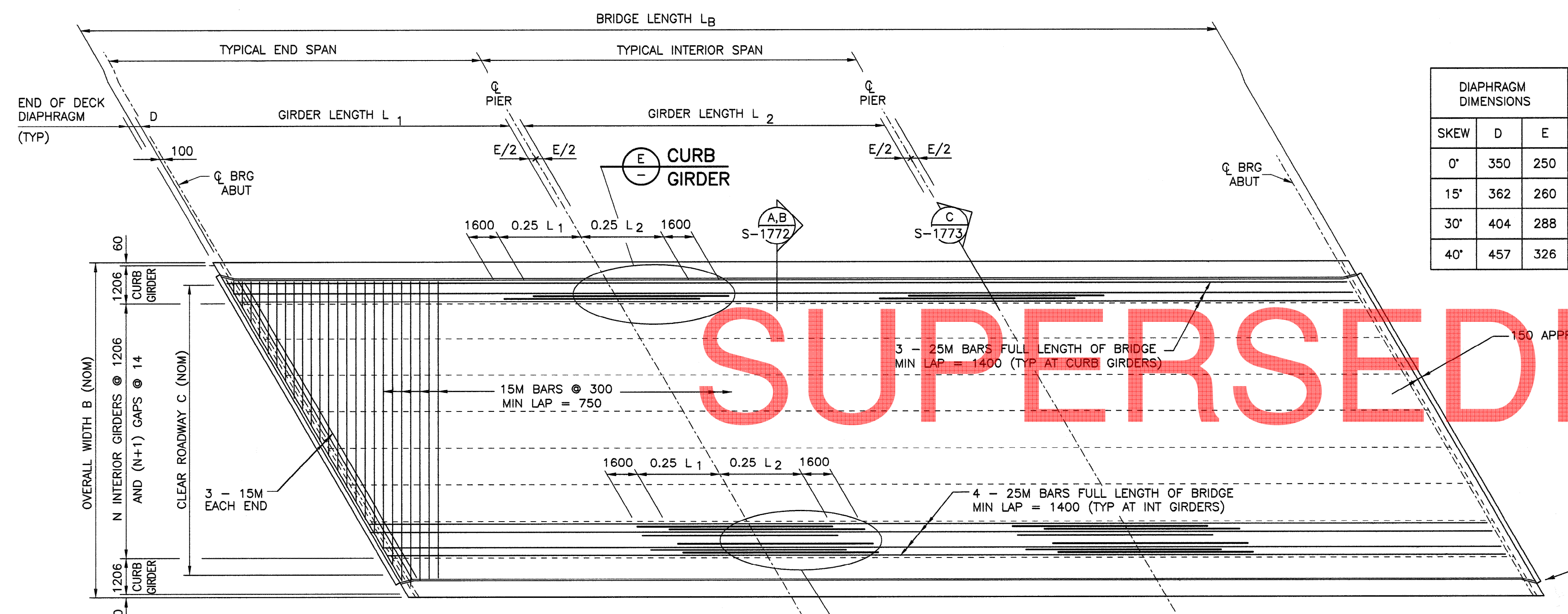
- THIS SET OF STANDARD DRAWINGS ARE TO BE WORKED TOGETHER WITH THE FOLLOWING SITE SPECIFIC DRAWINGS, WHICH SHALL BE PREPARED BY A CONSULTANT PRE-QUALIFIED BY THE DEPARTMENT TO DESIGN MAJOR BRIDGE STRUCTURES.
 - GENERAL LAYOUT INCLUDING BRIDGE RAIL LAYOUT
 - SITE INFORMATION SHEET(S)
 - DECK REINFORCING PLAN, PIER AND ABUTMENT ELEVATIONS
 - DESIGN CONSULTANT SHALL BE RESPONSIBLE FOR CHECKING GIRDER SHOP DRAWINGS.

DECK

- CAST-IN-PLACE CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS FOR BRIDGE CONSTRUCTION SECTION 4, CAST-IN-PLACE CONCRETE.
- ALL CONCRETE SHALL BE CLASS HPC
- REINFORCING STEEL SHALL BE GRADE 400.
- ALL CONCRETE CORNERS SHALL HAVE A 20 mm CHAMFER OR FILLET UNLESS NOTED OTHERWISE.
- DECK CONCRETE SHALL BE PLACED CONTINUOUSLY WITHIN A 4-HOUR MAXIMUM TIME PERIOD. DECK INCLUDES DIAPHRAGMS.
- ALL REINFORCING STEEL SHALL HAVE A 50 mm CLEAR COVER UNLESS NOTED OTHERWISE.
- GALVANIZING SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD G164
- FOR CONCRETE TO GRADE, DECK CONCRETE FINISH SHALL BE CLASS 6. CURB BLOCKOUT AND PIER DIAPHRAGM FINISHES TO MATCH PRECAST GIRDERS. SILANE SEALER SHALL BE APPLIED TO THE DECK SURFACE AND INSIDE VERTICAL FACE OF CURB.
- FOR ACP WEARING SURFACE, DECK CONCRETE FINISH SHALL BE CLASS 4. CURB BLOCKOUT AND PIER DIAPHRAGM FINISHES TO MATCH PRECAST GIRDERS. SILANE SEALER SHALL BE APPLIED TO THE INSIDE VERTICAL FACE OF CURB (ABOVE WEARING SURFACE).
- STEEL FOR ANCHOR DOWELS AND MISCELLANEOUS IRON SHALL CONFORM TO CSA G40.21M-300W.



BRIDGE RAIL POST AND DECK DRAIN LAYOUT
1:100

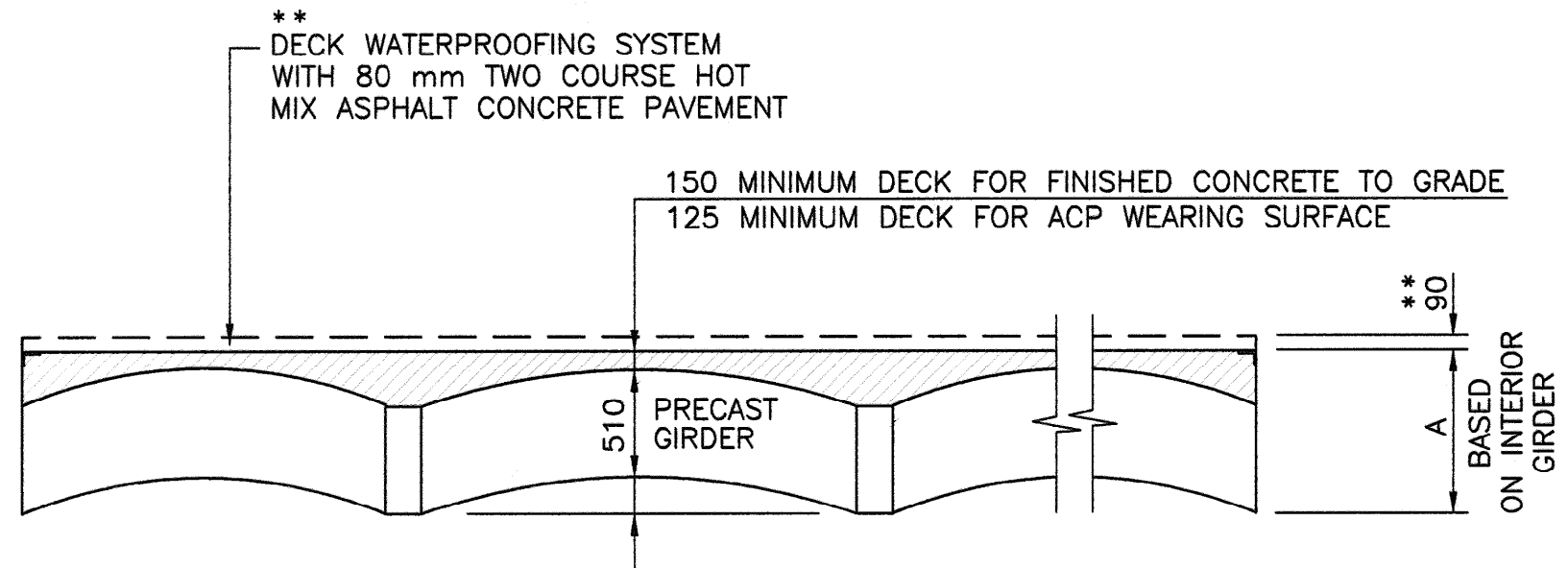


DECK REINFORCING PLAN
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DIAPHRAGM DIMENSIONS		
SKEW	D	E
0°	350	250
15°	362	260
30°	404	288
40°	457	326

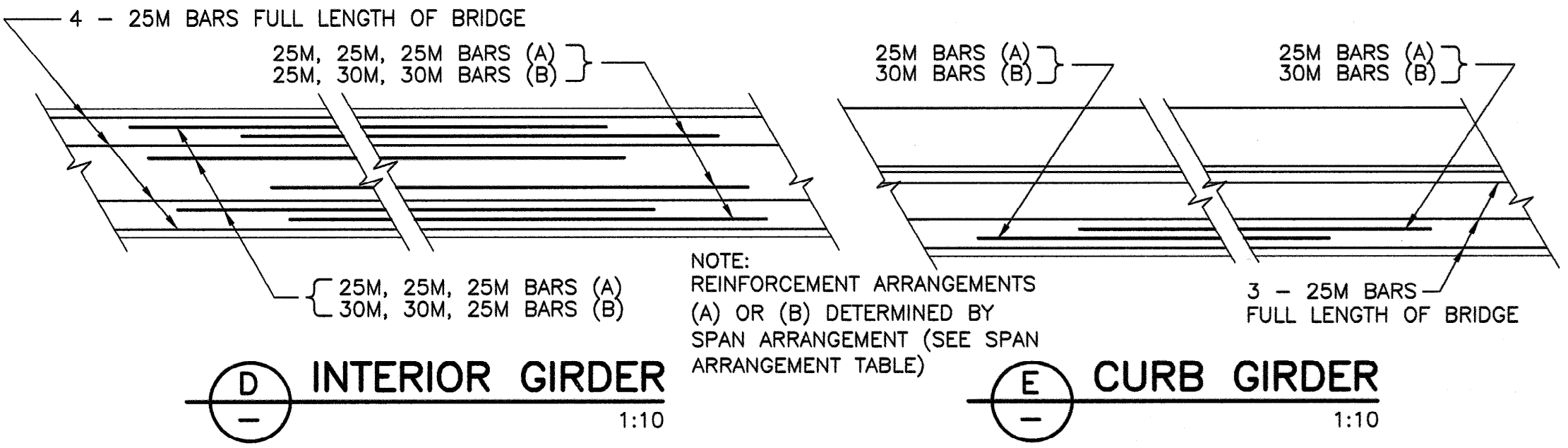
NUMBER OF GIRDER LINES	CLEAR ROADWAY C (NOM)	OVERALL WIDTH B (NOM)
8	8 720	9 870
9	9 940	11 090
10	11 160	12 310
11	12 380	13 530
12	13 600	14 750
13	14 820	15 970

SUPERSEDED



CAMBER DIAGRAM
NTS

DEFLECTION (-) OR CAMBER (+)	8m GIRDER		10m GIRDER		12m GIRDER		14m GIRDER		16m GIRDER	
	INTERIOR	CURB	INTERIOR	CURB	INTERIOR	CURB	INTERIOR	CURB	INTERIOR	CURB
AT TRANSFER	4	4	6	6	9	9	14	17	22	28
CURB	-	-1	-	-3	-	-6	-	-11	-	-18
CAMBER GROWTH BEFORE DECK	1	1	2	1	3	1	6	2	9	4
150 DECK	-1	0	-2	0	-4	-1	-7	-2	-12	-3
125 DECK+90 ACP	-1	-1	-3	-1	-5	-1	-10	-2	-17	-4
ACCUMULATIVE CAMBER (125+90ACP)	4	3	5	3	7	3	10	6	14	10



D INTERIOR GIRDER
1:10

E CURB GIRDER
1:10

- * NOTES:
- NET CAMBER VALUES ARE ESTIMATED VALUES ONLY. ACTUAL VALUES MAY VARY ACCORDING TO VARIATIONS IN PRESTRESS LOSSES AND PROPERTIES OF CONCRETE.
 - FIELD ADJUST AS REQUIRED BY RAISING OR LOWERING GRADE LINE TO MAINTAIN MINIMUM DECK THICKNESS.

	<p>PERMIT TO PRACTICE ISL Engineering and Land Services Ltd. Signature: [Signature] Date: Aug 15, 2008 PERMIT NUMBER: P 4741 The Association of Professional Engineers, Geologists and Geophysicists of Alberta</p>	DESIGNER	CHECKER	RECOMMENDED DIRECTOR BRIDGE ENGINEERING	
<p>STANDARD SLC COMPOSITE BRIDGES SLC510 PRESTRESSED CONCRETE GIRDERS SUPERSTRUCTURE LAYOUT</p>					<p>APPROVED EXECUTIVE DIRECTOR TECHNICAL STANDARDS BRANCH</p>
<p>DATE Aug 15 '08 DATE Aug 15, 2008</p>					
<p>REVISIONS</p>			<p>DATE 2008-06-30 SHEET 1 OF 7 DRAWING S-1771-08</p>		

NH AUG 15, 2008 S-1771-08.DWG -DRAWN-BY-RWK