



- #### GENERAL NOTES
- DESIGN**
- THESE GIRDER DESIGNS ARE BASED ON GIRDERS BEING COMPOSITE WITH A 150 mm THICK CAST IN PLACE DECK ( $f'_c = 35 \text{ MPa}$ ). THE DECK SHALL BE REINFORCED OVER THE PIERS WITH 4 - 25M AND 3 - 30M REBARS PER INTERIOR GIRDER AND WITH 3 - 25M AND 1 - 30M REBARS PER EXTERIOR GIRDER WITH CURB. THE 25M REBARS SHALL BE CONTINUOUS THE ENTIRE LENGTH OF THE BRIDGE. THE 30M REBARS SHALL EXTEND A MINIMUM OF 25% OF THE SPAN LENGTH INTO EACH SPAN ADJACENT TO THE PIER. ONE 30M REBAR PER GIRDER SHALL EXTEND AN ADDITIONAL 1.0 m BEYOND THE QUARTER POINT INTO EACH SPAN.
- CAN/CSA-S6-88 SPECIFICATIONS**
- LOADING:**
- LIVE LOAD : CAN/CSA-S6-88; CS-750  
0.672 WHEEL LINES PER GIRDER
- DEAD LOAD : INTERIOR GIRDER**
- |        |            |
|--------|------------|
| GIRDER | - 9.3 kN/m |
| SLAB   | - 4.3 kN/m |
| WS     | - 1.3 kN/m |
- CURB GIRDER**
- |           |            |
|-----------|------------|
| GIRDER    | - 9.3 kN/m |
| CURB      | - 6.2 kN/m |
| SLAB & WS | - 2.5 kN/m |
- MATERIALS AND STRENGTHS**
- GIRDER CONCRETE:  $f'_c = 45 \text{ MPa}$   
 $f'_{ci} = 28 \text{ MPa}$
  - PRESTRESSING STEEL:  $f_{pu} = 1860 \text{ MPa}$
  - REINFORCING STEEL:  $f_y = 400 \text{ MPa}$
  - SHEAR REINFORCING :  $A_v = 600 \text{ mm}^2$

CAMBER TABLE	8 m SPAN		10 m SPAN		12 m SPAN		14 m SPAN	
	DEFLECTION OR CAMBER		INTERIOR GIRDER	EXTERIOR GIRDER	INTERIOR GIRDER	EXTERIOR GIRDER	INTERIOR GIRDER	EXTERIOR GIRDER
GIRDER	2 ↓	2 ↓	5 ↓	5 ↓	10 ↓	10 ↓	19 ↓	19 ↓
PRESTRESS @ RELEASE	4 ↓	4 ↓	12 ↓	12 ↓	24 ↓	24 ↓	41 ↓	41 ↓
CURB	—	1 ↓	—	3 ↓	—	5 ↓	—	10 ↓
FIELD CAST DECK	1 ↓	—	2 ↓	—	4 ↓	1 ↓	7 ↓	1 ↓
WEARING SURFACE (FUTURE)	—	—	—	—	—	—	—	—
ESTIMATED FINAL CAMBER	1 ↓	1 ↓	5 ↓	4 ↓	10 ↓	8 ↓	15 ↓	11 ↓

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