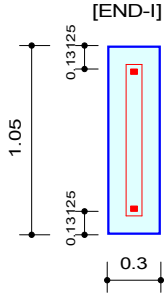
MIDAS	Company		Project Title	
	Author	ACER	File Name	C:\...\midas\lrtbsu project.mcb

1. Design Information

Design Code : IRC:112-2011
Unit System : kN, m
Material Data : fck = 25000, fy = 240000, fyw = 240000 KPa
Beam Span : 2.8 m
Section Property: CROSS-GIRDER (No : 3)

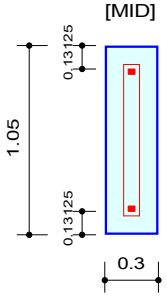
2. Section Diagram

[END-I]



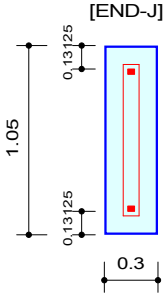
TOP : 0.0012859 m^2
BOT : 0.0024301 m^2
STIRRUPS : 2.0-P10 @120

[MID]



TOP : 0.00076588 m^2
BOT : 0.0015055 m^2
STIRRUPS : 2.0-P10 @120

[END-J]



TOP : 0.0011357 m^2
BOT : 0.0016789 m^2
STIRRUPS : 2.0-P10 @110

3. Bending Moment Capacity

	END-I	MID	END-J
Negative Moment (M_Ed)	229.42	109.98	204.13
(-) Load Combination No.	9-	19-	10-
Factored Strength (M_Rd)	235.42	142.82	209.06
Check Ratio (M_Ed/M_Rd)	0.9745	0.7701	0.9764
Positive Moment (M_Ed)	414.42	265.57	296.07
(+) Load Combination No.	12+	12+	11+
Factored Strength (M_Rd)	426.99	272.75	302.62
Check Ratio (M_Ed/M_Rd)	0.9706	0.9737	0.9784
Required Top As	0.0013	0.0008	0.0011
Required Bot As	0.0024	0.0015	0.0017

4. Shear Capacity

	END-I	MID	END-J
Load Combination No.	12+	12+	12+
Factored Shear Force (V_Ed)	215.25	225.66	230.86
Shear Strength by Conc.(V_Rdc)	126.25	107.63	85.92
Shear Strength by Rebar.(V_Rds)	225.77	225.77	246.30
Required Shear Reinf. (Asw)	0.0000	0.0000	0.0000
Required Stirrups Spacing	2.0-P10 @120	2.0-P10 @120	2.0-P10 @110
Check Ratio	0.6115	0.6768	0.6949