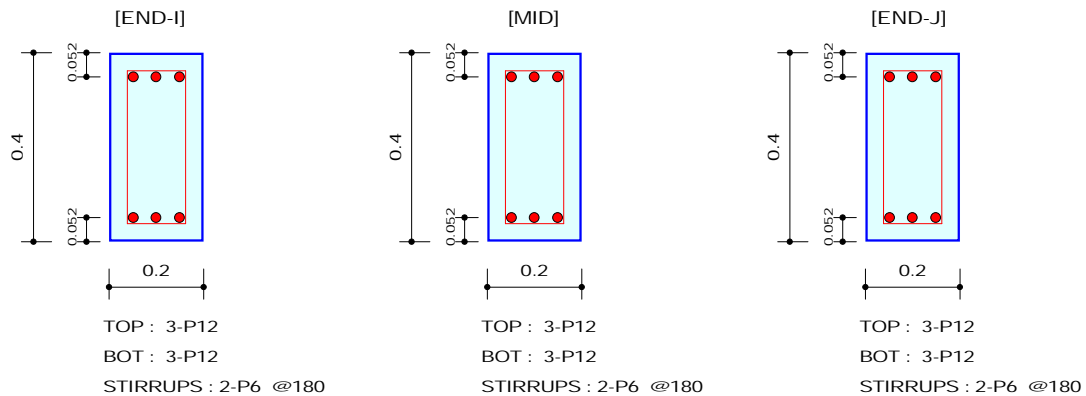
	Company		Project Title	
	Author		File Name	D:\...\MidasCal81_100_V8.mgb

1. Design Information

Design Code : ACI318-11
 Material Data : $f_c = 1.5e+006$, $f_y = 4e+007$, $f_{ys} = 2.4e+007$ kgf/m²
 Section Property : RB1 (No : 55)
 Unit System : kgf, m
 Beam Span : 20 m

2. Section Diagram



3. Bending Moment Capacity

	END-I	MID	END-J
(-) Load Combination No.	3	18	7
Moment (Mu)	929.79	904.37	933.95
Factored Strength (ϕM_n)	3463.56	3463.56	3463.56
Check Ratio ($M_u/\phi M_n$)	0.2684	0.2611	0.2697
(+) Load Combination No.	9	12	10
Moment (Mu)	736.02	799.54	739.12
Factored Strength (ϕM_n)	3463.56	3463.56	3463.56
Check Ratio ($M_u/\phi M_n$)	0.2125	0.2308	0.2134
Using Rebar Top (A_{s_top})	0.0003	0.0003	0.0003
Using Rebar Bot (A_{s_bot})	0.0003	0.0003	0.0003

4. Shear Capacity

	END-I	MID	END-J
Load Combination No.	9	9	5
Factored Shear Force (V_u)	1509.69	1452.09	1508.97
Shear Strength by Conc. (ϕV_c)	3164.33	3164.33	3164.33
Shear Strength by Rebar. (ϕV_s)	1836.42	1836.42	1836.42
Using Shear Reinf. (A_{sV})	0.0003	0.0003	0.0003
Using Stirrups Spacing	2-P6 @180	2-P6 @180	2-P6 @180
Check Ratio	0.3019	0.2904	0.3017