DO NOT SCALE FROM THIS DRAWING
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TIMESTAMP 09/02/2018 21:09:30
BIM MODEL M-BAR-1F4TS0-CB00-BIM-000003-Structure.rvt

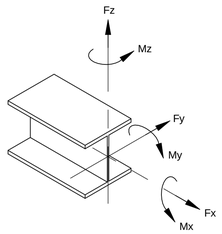
NOTES:

1. ALL DIMENSIONS SHOWN IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE.
2. FOR GENERAL NOTES REFER TO DRAWING No. M-BAR-000DS0-CB00-EDR-990004 TO 990006.
3. FOR ABBREVIATION LIST REFER TO DRAWING No. M-BAR-000DS0-CB00-EDR-990007.
4. FOR THE SETTING OUT OF STEELWORK REFER TO DRAWING No. M-BAR-1F4TS0-CB00-EDR-200011 TO 200015.
5. FOR CONNECTION FORCE KEYPLAN, REFER TO DRAWING No. M-BAR-1F4TS0-CB00-EDR-200017 & 200018.
6. ALL PSD STEEL FRAME ARE 2-HOUR FIRE RATED UNLESS NOTED OTHERWISE.

INDEX DRAWING 000009

DESIGN FORCES FOR CONNECTIONS (ASD)

CONNECTION MARK	AXIAL FORCES Fx (kN)		FORCE, Fy (kN)	FORCE, Fz (kN)	TORSION, Mx (kNm)	MOMENT ABOUT Y-AXIS, Myy (kNm)	MOMENT ABOUT Z-AXIS, Mzz (kNm)
	COMPRESSION (kN)	TENSION (kN)					
A	60	55	+/-40	+/-15	0	+/-25	+/-35
B	75	15	+/-20	+/-15	0	+/-25	+/-25
C	60	110	+/-15	+/-35	0	+/-40	+/-20
D	30	35	+/-10	+/-35	0	+/-50	+/-15
E	75	75	0	+/-10	0	0	0
F	20	30	+/-25	+/-15	0	+/-25	+/-25
H	0	145	+/-10	+/-30	0	0	0
J	45	40	0	+/-10	0	0	0
K	0	65	+/-25	+/-15	0	+/-15	0
L	0	0	+/-35	+/-15	0	0	0
M	60	105	+/-5	+/-10	0	+/-20	0
N	0	20	+/-5	+/-15	0	+/-15	0
P	0	40	+/-5	+/-5	0	0	0



REVISIONS

No	Date	Description	Drawn	Checked	Approved
000	04/09/2017	ISSUED FOR CONSTRUCTION	GB	CL	JB
001	09/02/2018	ISSUED FOR CONSTRUCTION	GB	CL	JB

PROJECT
قطار الرياض
riyadh metro

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الهيئة العليا لتطوير مدينة الرياض

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BACS APPROVAL
BACS
Robert Scott
Consortium for Riyadh Metro Project
This drawing has been Approved and Certified as acceptable on behalf of the BACS Consortium.

SCALE: As indicated
PAPER SIZE: A1

DRAWING STATUS: ISSUED FOR CONSTRUCTION

CONSULTANT / SUB-CONTRACTOR: ARUP

DRAWING TITLE:
DEEP UNDERGROUND STATION
LINE 1 - TRANSFER STATION 1F4
STRUCTURE
LINE 1 PSD STRUCTURES
CONNECTION FORCES

LEAD DESIGN ENTITY (LDE)	APPROVED BY LDE	DRAWN BY	CHECKED BY	APPROVED BY
	NAME	NAME G.BROGIOLO	NAME C.LAM	NAME J.BATCHELOR
	DATE	DATE 09/02/2018	DATE 09/02/2018	DATE 09/02/2018

DRAWING NUMBER: M-BAR-1F4TS0-CB00-EDR-200019
REVISION: 001

001 v03

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