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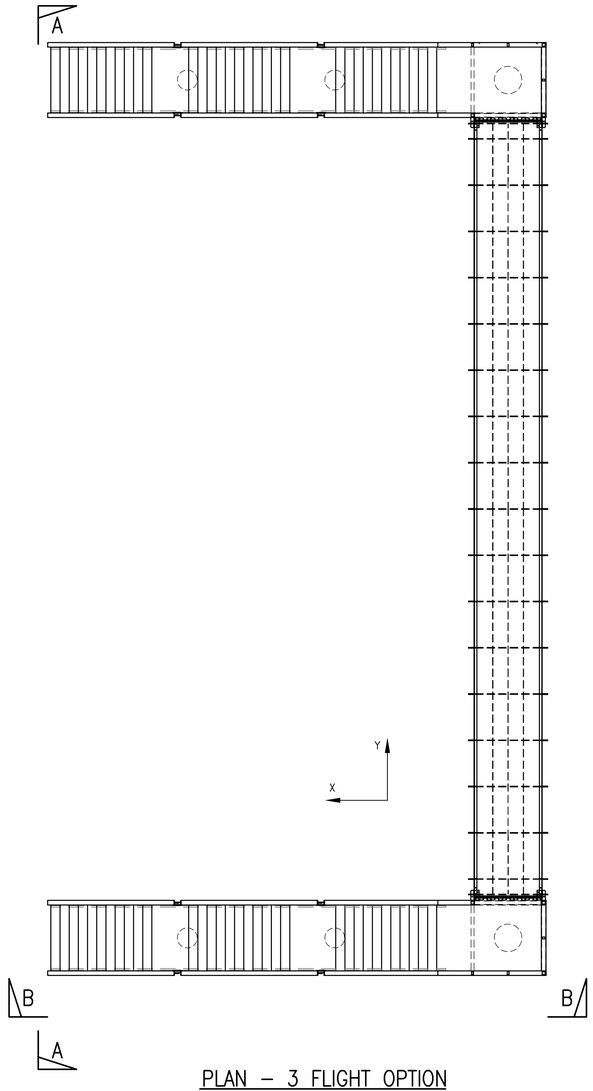


PLAN – 3 FLIGHT OPTION

SCALE 1:100

ELEVATION B–B

SCALE 1:100

STAIRS SUPPORT LAYOUT PLAN

SLS DEAD LOAD					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (kNM)	MY (kNM)
MC1	12.9	7.1	159.8	46.2	63.7
IC1	1.4	-6.3	79.1	43.6	7.7
IC2	3.4	-11.1	57.4	32.3	10.1
BS1	-11.8	4.5	21.0	0.0	0.0
BS2	-5.9	5.8	22.2	0.0	0.0

SLS WIND LOAD (POSITIVE RH TO LH)					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (kNM)	MY (kNM)
MC1	-19.1	-20.1	-80.1	-73.4	-112.1
IC1	-25.0	7.6	20.2	31.7	-88.0
IC2	-74.2	13.5	10.0	34.7	-162.1
BS1	-32.2	-4.2	22.0	N/A	0.0
BS2	-41.3	3.3	28.0	N/A	0.0

SLS WIND LOAD (NEGATIVE LH TO RH)					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (kNM)	MY (kNM)
MC1	19.1	20.1	80.1	-73.4	112.1
IC1	25.0	-7.6	-20.2	31.7	88.0
IC2	74.2	-13.5	-10.0	34.7	162.1
BS1	32.2	4.2	-22.0	0.0	0.0
BS2	41.3	-3.3	-28.0	0.0	0.0

SLS SNOW LOAD					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (kNM)	MY (kNM)
MC1	0.3	4.6	53.1	-30.1	4.8
IC1	-0.2	-4.1	0.8	-28.4	-0.6
IC2	0.0	-7.2	-0.2	-21.0	0.0
BS1	-2.0	3.3	-0.3	N/A	0.0
BS2	1.9	3.3	0.4	N/A	0.0

SLS LIVE LOAD					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (kNM)	MY (kNM)
MC1	13.6	13.0	199.0	-84.2	71.1
IC1	1.2	-11.5	71.5	-79.4	7.2
IC2	3.5	-20.1	52.6	-58.9	10.2
BS1	-14.6	8.6	21.2	N/A	0.0
BS2	-3.7	10.0	23.4	N/A	0.0

SLS THERMAL EXPANSION LOAD FROM DECK					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (kNM)	MY (kNM)
MC1	0.0	27.3	0.0	214.0	0.1
IC1	0.0	14.1	0.0	78.7	0.0
IC2	0.0	19.6	0.0	56.0	0.0
BS1	5.3	-8.0	0.5	N/A	0.0
BS2	-5.4	-8.0	-0.5	N/A	0.0

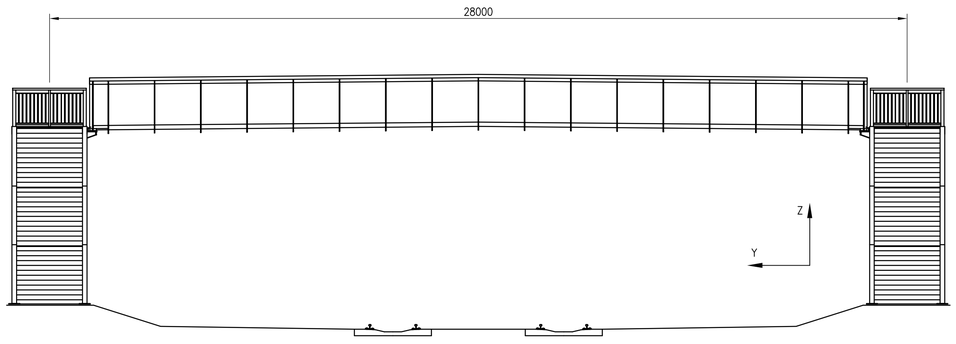
SLS THERMAL EXPANSION LOAD FROM STAIRS					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (kNM)	MY (kNM)
MC1	22.6	0.0	-6.0	0.0	168.5
IC1	19.6	0.0	-11.0	0.0	86.1
IC2	7.7	0.0	-15.3	0.0	25.7
BS1	-25.0	-26.6	16.2	N/A	0.0
BS2	-25.0	26.6	16.2	N/A	0.0

SLS THERMAL CONTRACTION LOAD FROM DECK					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (kNM)	MY (kNM)
MC1	0.0	-21.9	0.0	-171.7	-0.1
IC1	0.0	-11.3	0.0	-63.1	0.0
IC2	0.0	-15.7	0.0	-44.9	0.0
BS1	-4.3	6.5	-0.4	N/A	0.0
BS2	4.3	6.5	0.4	N/A	0.0

SLS THERMAL CONTRACTION LOAD FROM STAIRS					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (kNM)	MY (kNM)
MC1	-18.7	0.0	5.0	0.0	-139.1
IC1	-16.2	0.0	9.1	0.0	-71.1
IC2	-6.4	0.0	12.7	0.0	-21.2
BS1	20.6	22.0	-13.3	N/A	0.0
BS2	20.6	-22.0	-13.3	N/A	0.0

SLS WIND LOAD (Y DIRECTION)					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (kNM)	MY (kNM)
MC1	0.2	-46.8	-0.1	319.1	1.6
IC1	-0.3	-37.9	0.0	170.9	-1.2
IC2	-0.9	-73.0	0.7	186.7	-2.4
BS1	-24.0	-7.2	19.4	0.0	0.0
BS2	25.0	-6.0	-20.1	0.0	0.0

NOTE:
FOUNDATION LOADS HAVE BEEN GENERATED FROM 3–FLIGHT 12 STAIR ARRANGEMENT WITH CANOPY TO MAIN SPAN AND SCREENS TO STEPS. THE FORCES CAN BE REDUCED IF CANOPY AND/OR SCREENS ARE OMITTED.



ELEVATION A–A

SCALE 1:100

NOTES

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL NR/CIV/SD/400 SERIES DRAWINGS.
3. FOR GENERAL NOTES REFER TO DRAWING NR/CIV/SD/400
4. REFER TO THE TUM FOR THE STRATEGY/GUIDANCE

Rev	Date	Description of revision	Design'd	C'kd
F	17.07.15	FINAL ISSUE	BC	SWMF
E	10.07.15	FINAL ISSUE	BC	SWMF
D	18.06.15	FINAL ISSUE	CF	SWMF

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Approved	A. LUNDBERG	Investment Projects Building & Civils		

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CIVIL ENGINEERING STANDARD DESIGN

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NON–STATION FOOTBRIDGES STANDARD DRGS AND DETAILS

FOOTBRIDGE SUPERSTRUCTURE FOUNDATION LOAD TABLE 28m CHS SUPPORT

Scale: AS SHOWN

Drawing Number: NR/CIV/SD/408

REV. F

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