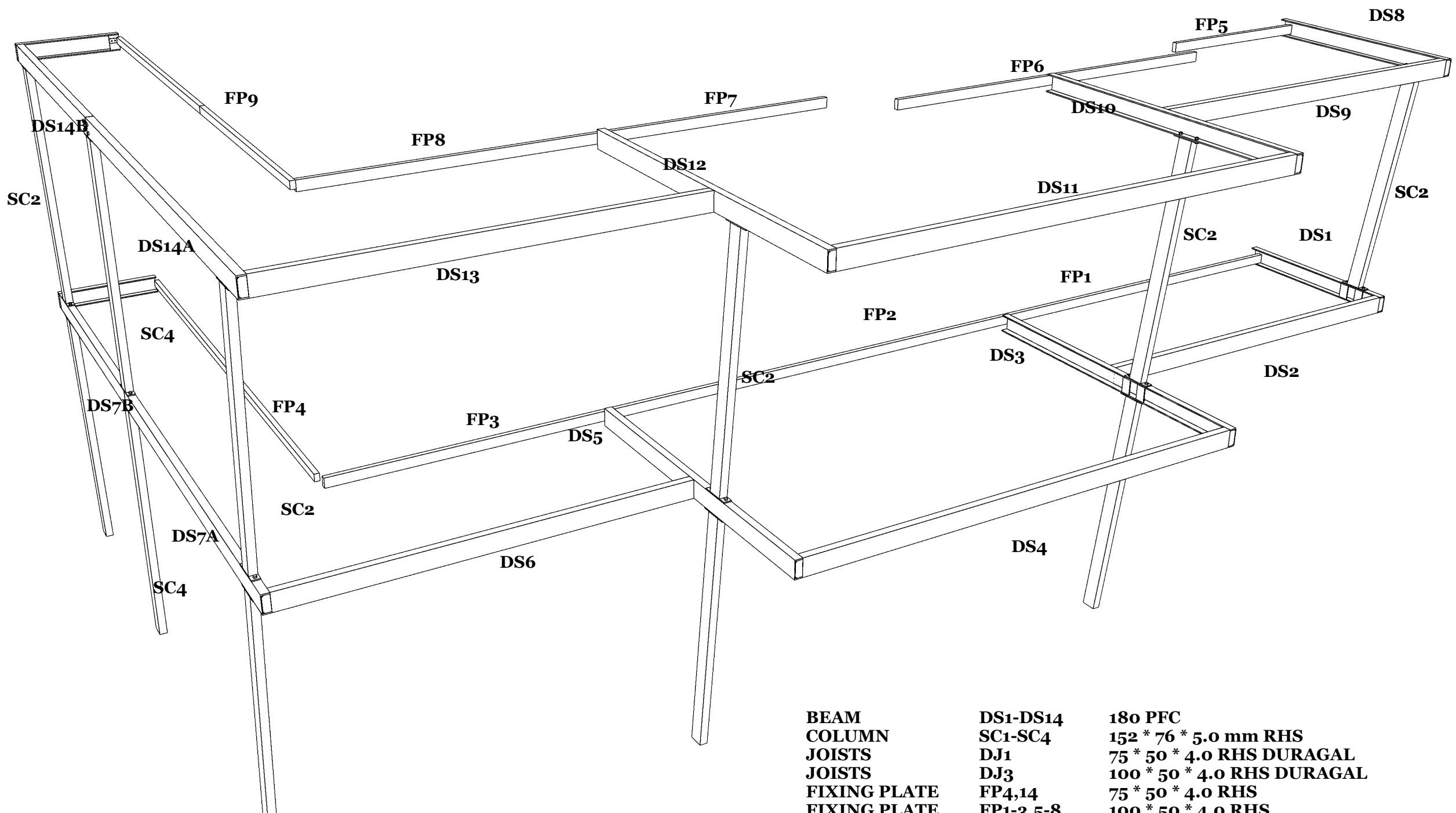


NORTHERN DECK

October 7, 2023



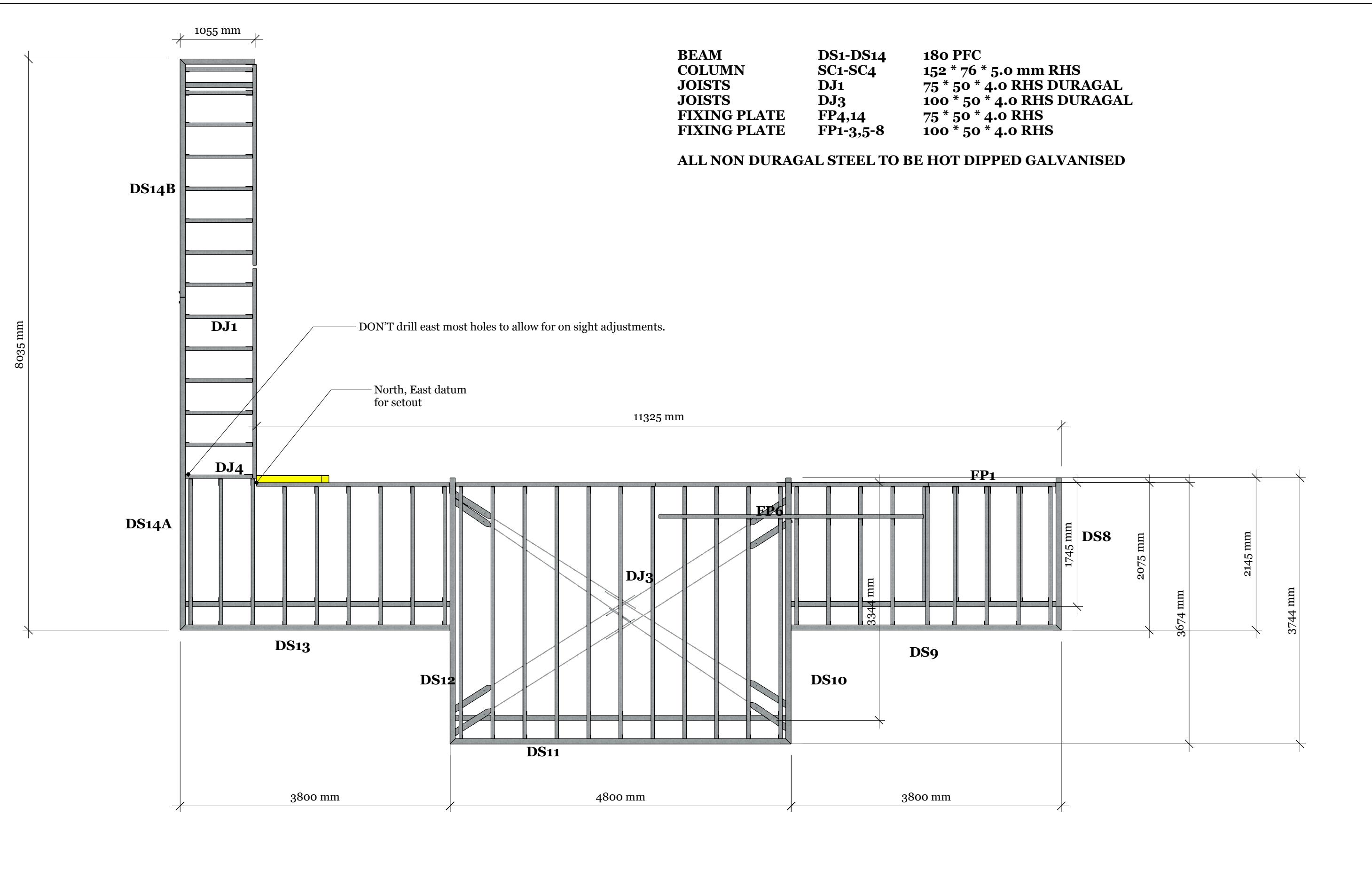
FRAME OVERVIEW

M & M

REVISIONS

MM/DD/YY	REMARKS
1	...
2	...
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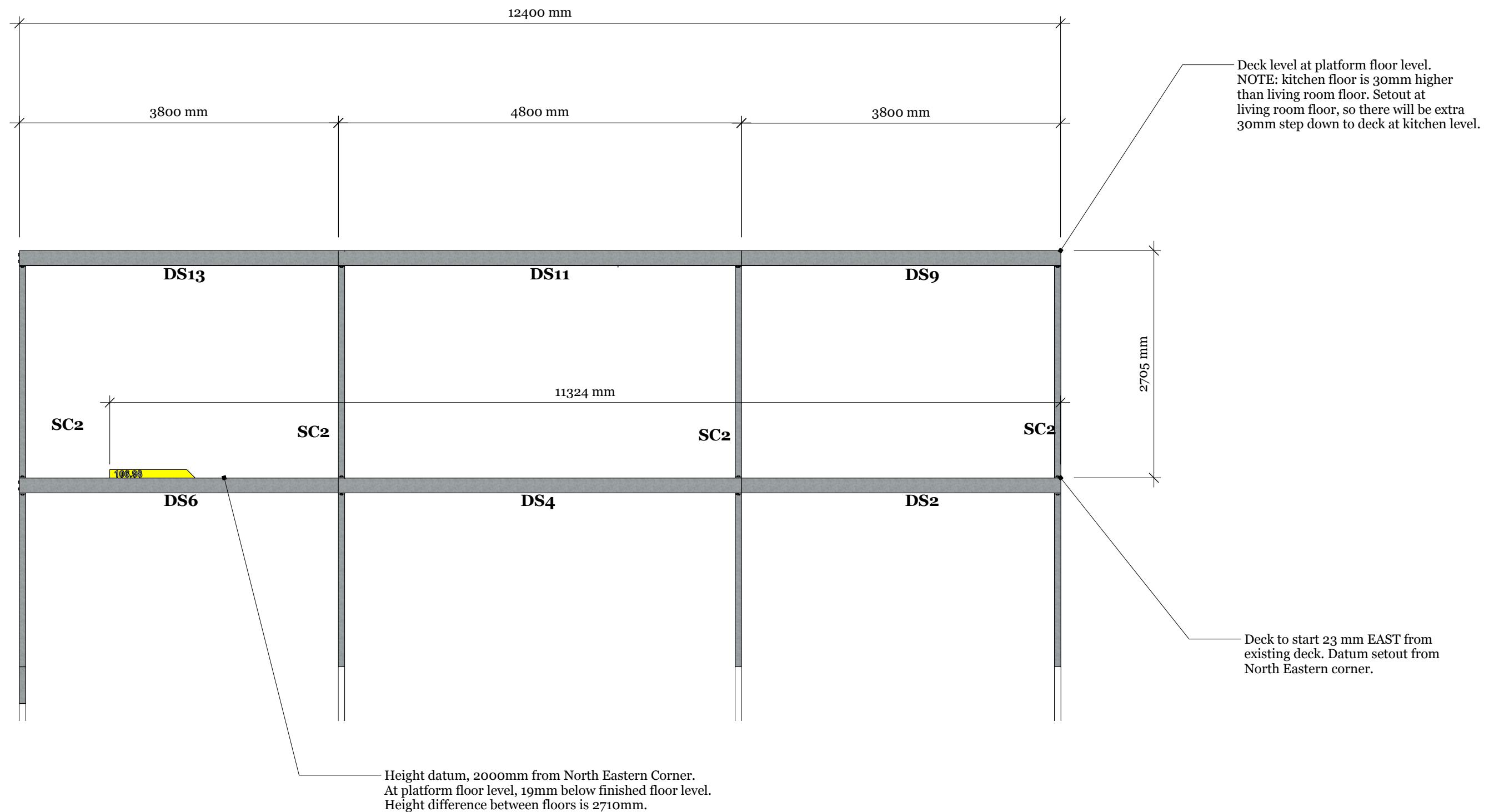
DECK PLAN VIEW



REVISIONS

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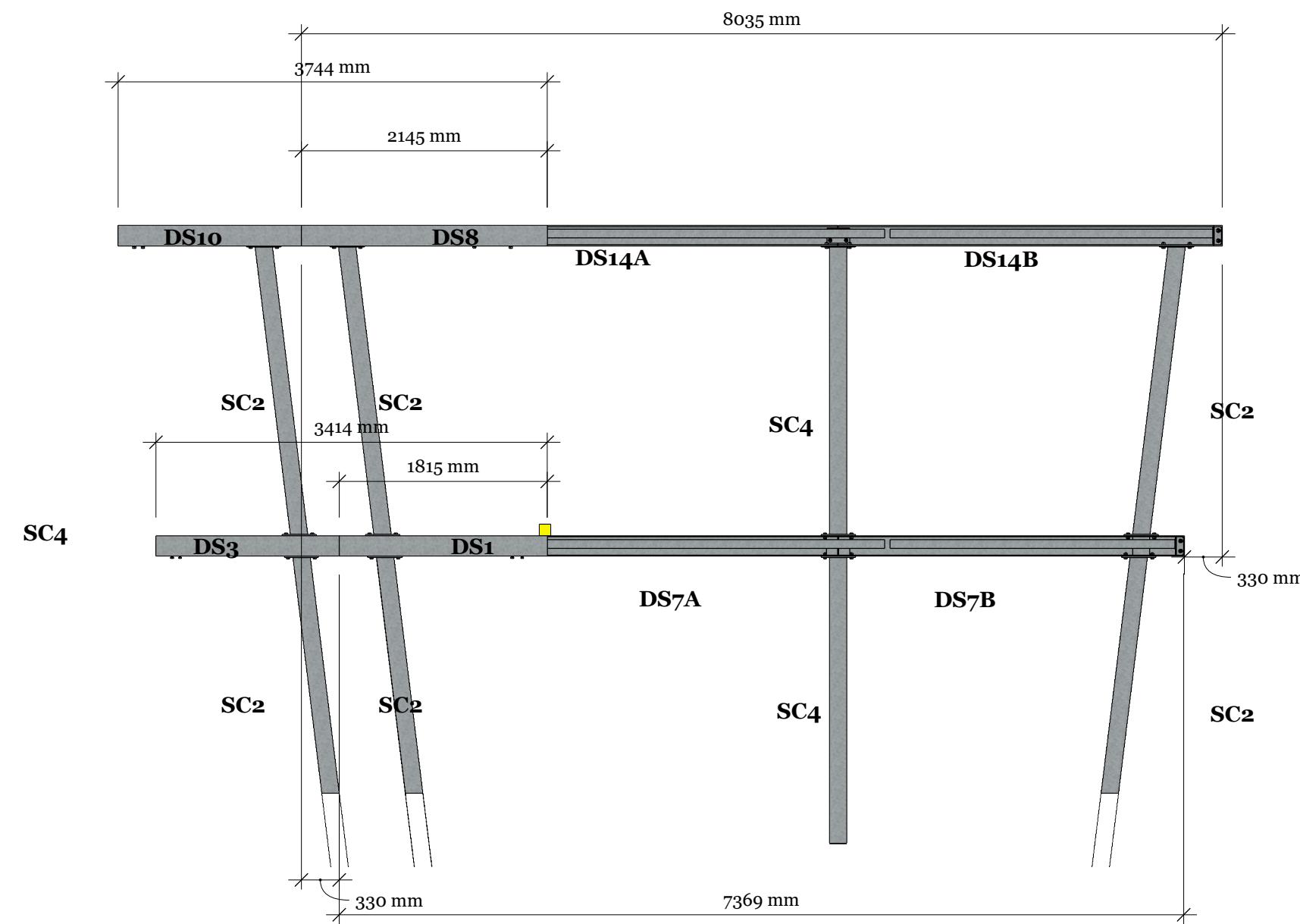


DECK NORTH ELEVATION



REVISIONS

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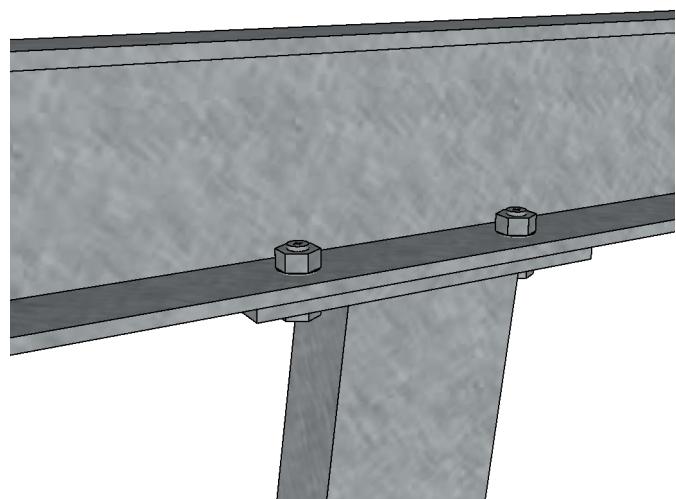


DECK EAST ELEVATION

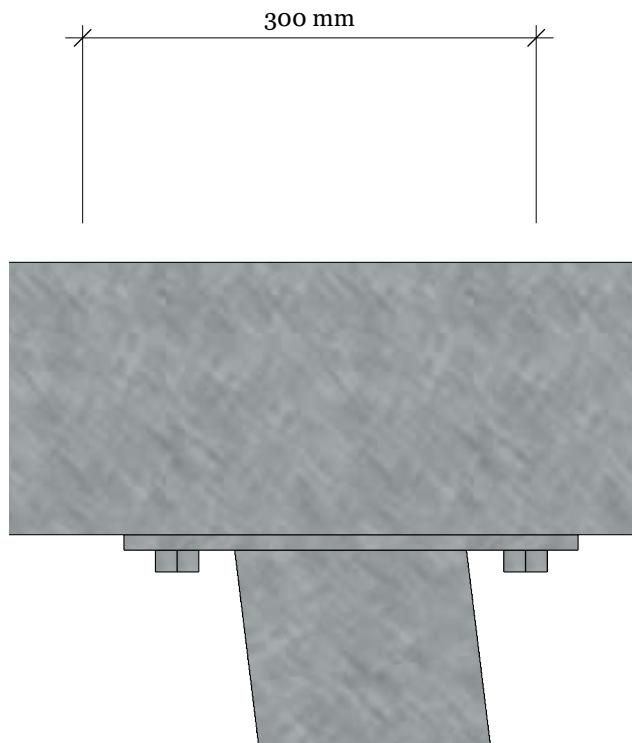
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REVISIONS

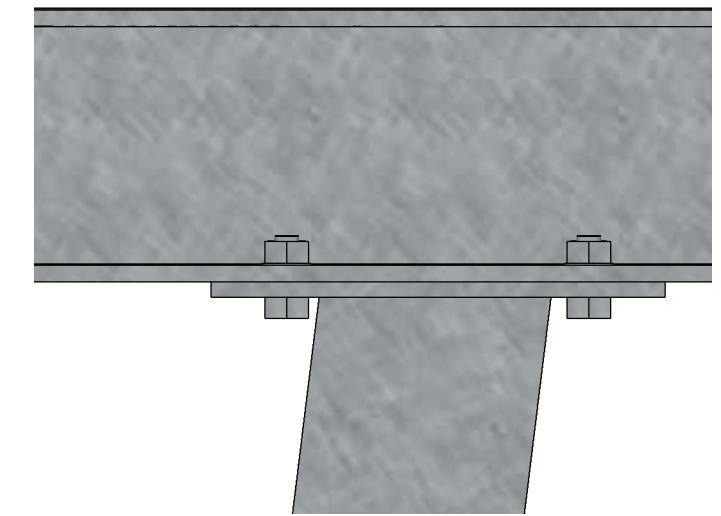
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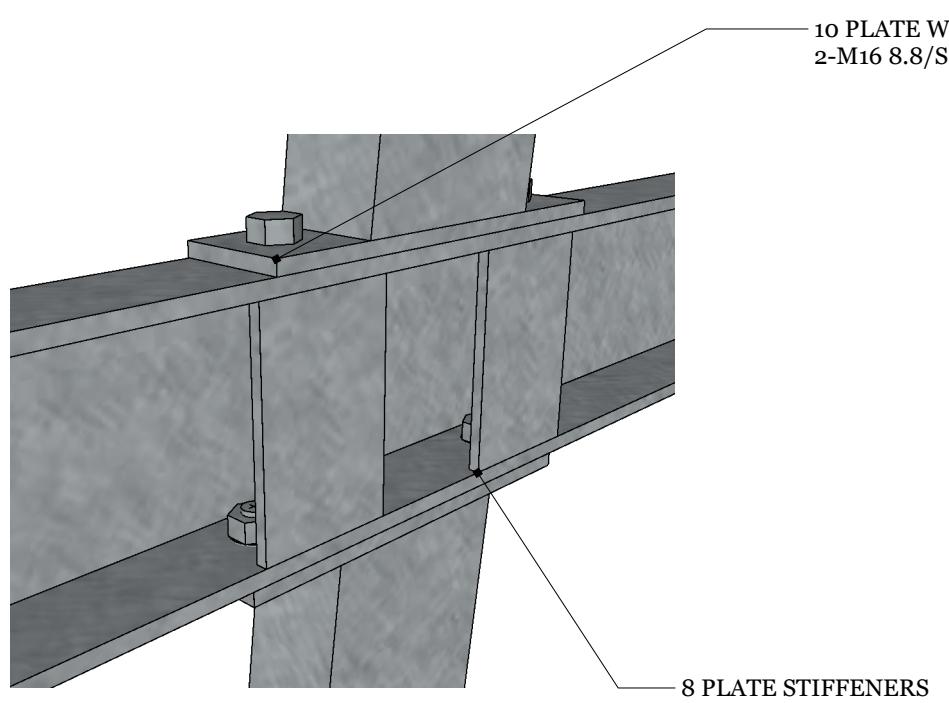
SC2



SC2



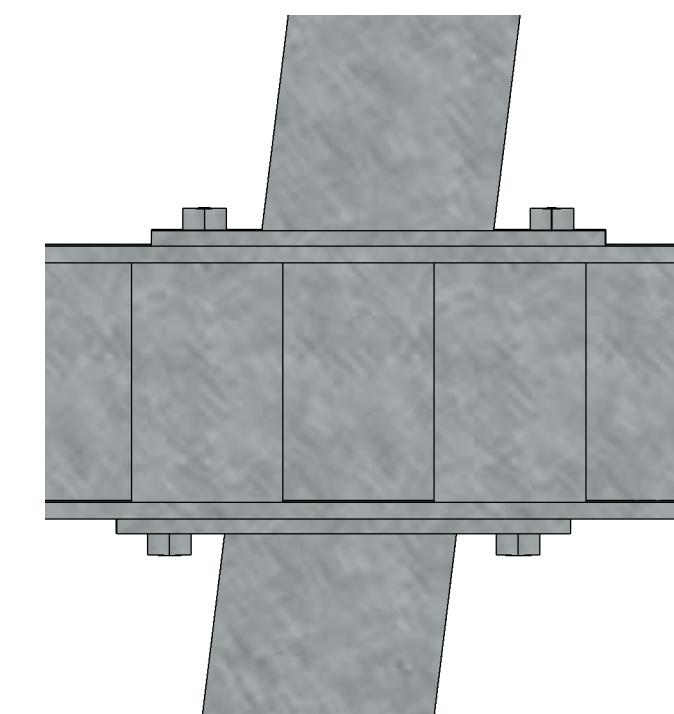
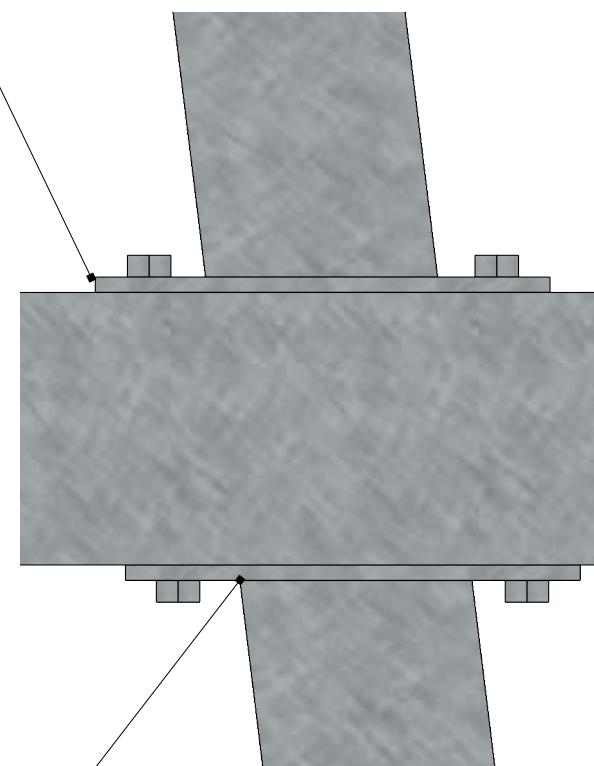
SC2



10 PLATE WITH
2-M16 8.8/S BOLTS

8 PLATE STIFFENERS

10 PLATE WITH
2-M16 8.8/S BOLTS



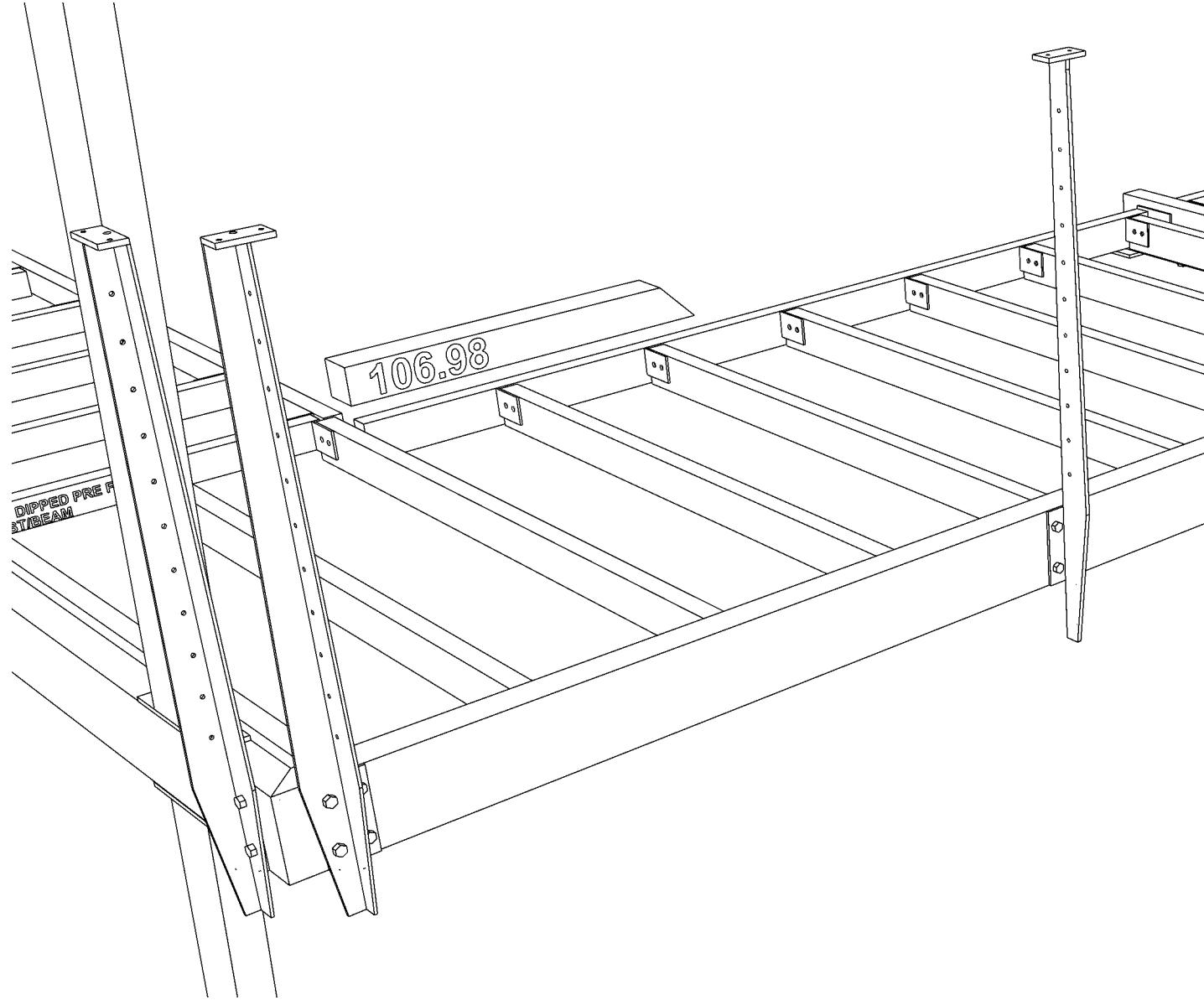
COLUMN DETAIL

M & M

REVISIONS

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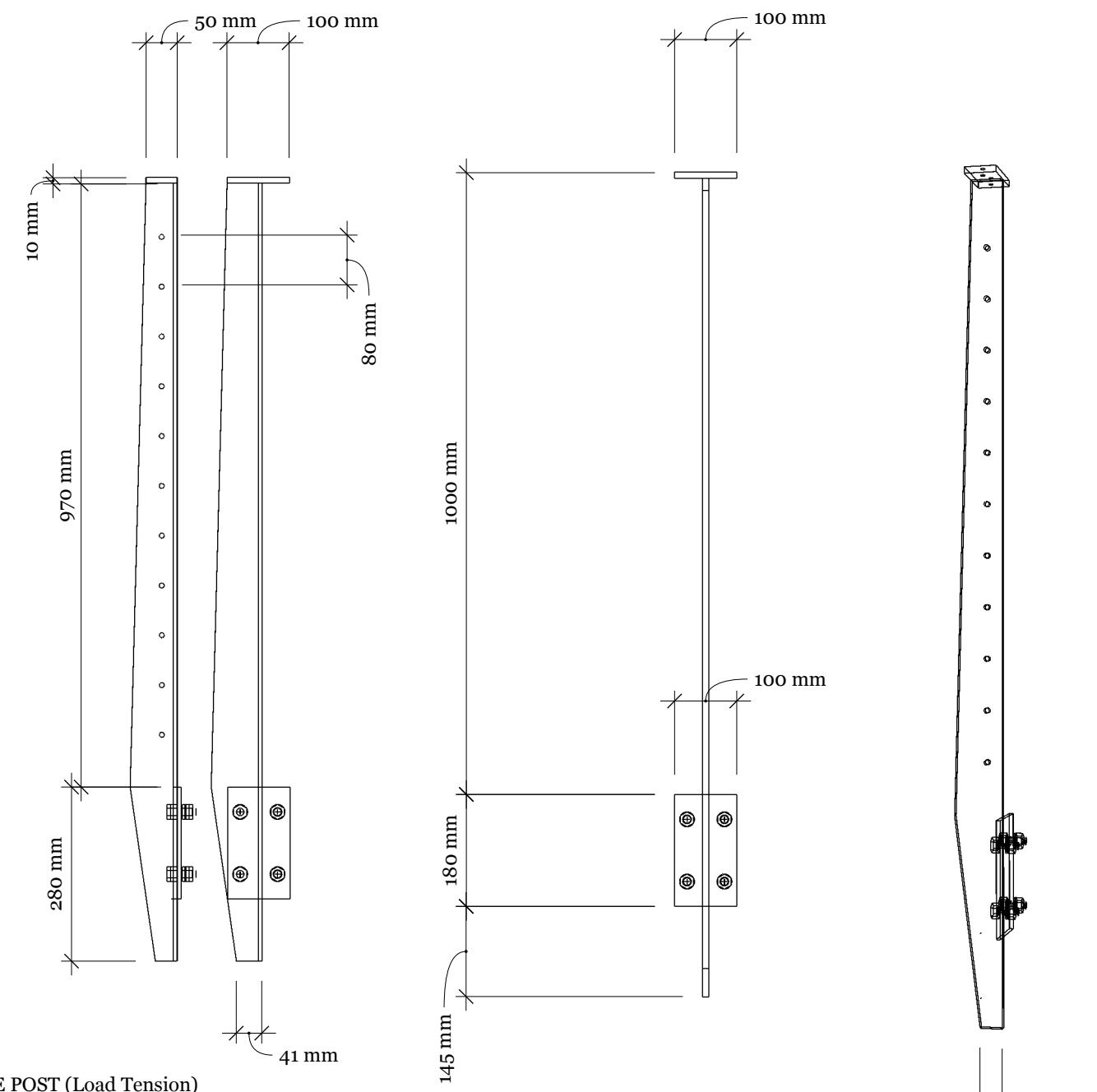
CORNER BALUSTRADE POST (Load Tension)

POST 1250mm length, 75x75x6mm ANGLE.
Taper cut to 50mm X 50 mm on top.
Taper cut to 40x40mm on bottom.

Weld 100 x 180 x 6mm PLATE with 4 off M12 holes
Top cap 100x50x10mm Plate, with 2 of M8 holes to
attach timber rail.

11 off M8 holes at 80mm centres for wires.

LEFT AND RIGHT HANDED FOR CORNERS



INLINE BALUSTRADE POST

POST 1250mm length, 75x10mm FLAT BAR.
Taper cut to 50mm top.
Taper cut to 40 on bottom.

Weld 100 x 180 x 6mm PLATE with 4 off M12 holes
Top cap 100x50x10mm Plate, with 2 of M8 holes to
attach timber rail.

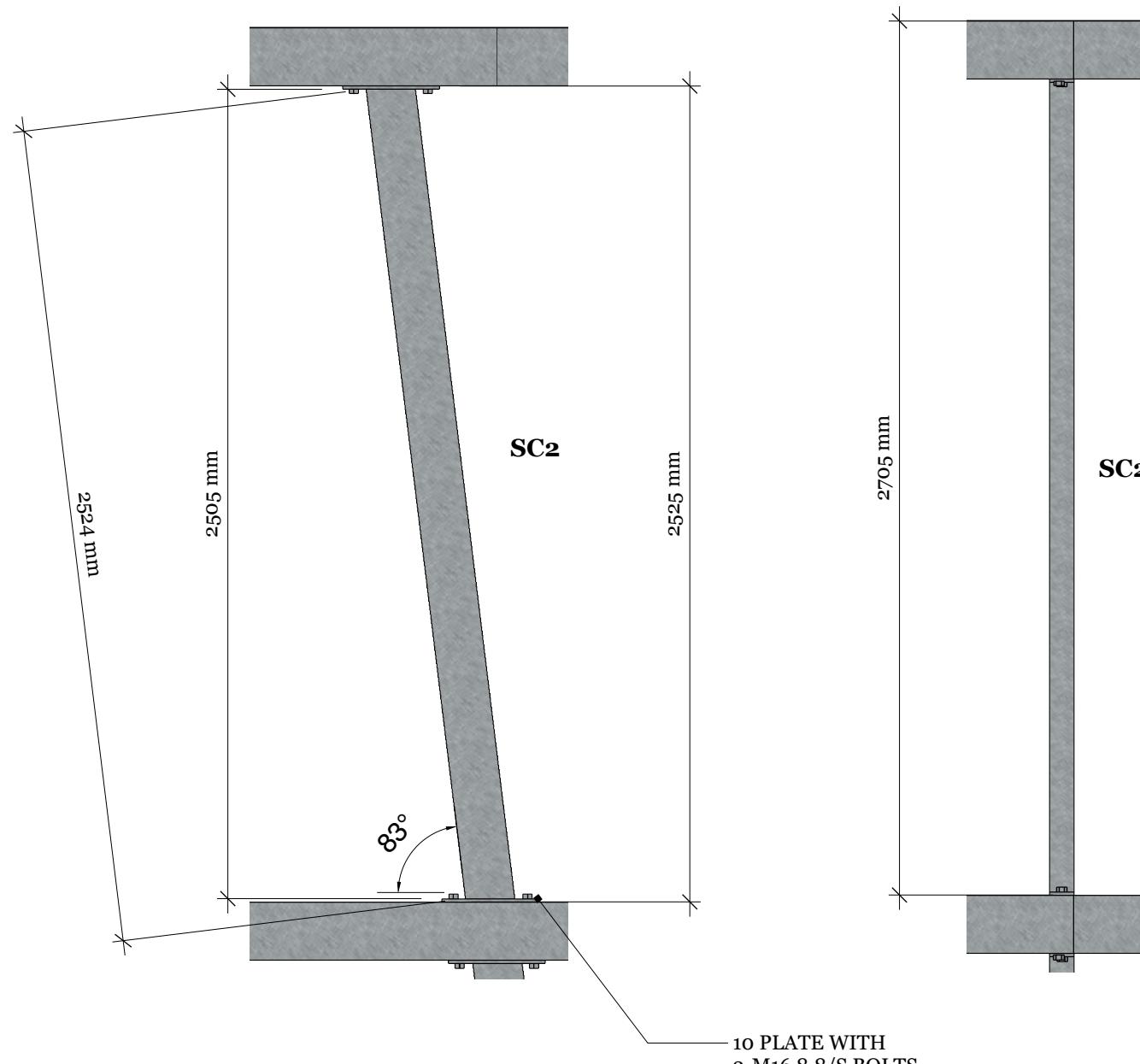
11 off M8 holes at 80mm centres for wires.

BALUSTRADE DETAIL



REVISIONS

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COLUMN SC1-SC4 152 * 76 * 5.0 mm RHS
SC2 HAVE 7 DEG SLOPE
SC4 COLUMNS ARE VERTICAL (total height including plates is 2530mm)
LOWER SECTION OF COLUMNS TO BE SIZED TO CONCRETE FOOTINGS

5 OFF RAKED COLUMNS, 2532mm
1 OFF VERTICAL COLUMN, 2505mm

MAXIMUM LENGTH OF COLUMN WITH 7 DEG RAKE
IS 2543 mm. Width of 152mm gives 18.5mm extra at 7 deg, each end.

COLUMN DETAIL

M & M

REVISIONS

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North Deck Cut List											
North Deck Cut List	Profile	Cost	Mass (KG/m)	Length	Mass (KG)	Mass Total	Number	Total		ORDERED	
DS1, Ground West	180 PFC / 9M	\$ 48.00	20.90	1815	37.9	37.9	1	1.815	\$ 87.12	N	
DS2, DS9, Ground North West First North West	180 PFC / 9M	\$ 48.00	20.90	3800	79.4	158.8	2	7.6	\$ 364.80	N	
DS3, DS5, Ground Cantlever West/East	180 PFC / 9M	\$ 48.00	20.90	3414	71.4	142.7	2	6.828	\$ 327.74	N	
DS4, DS11, Ground Middle, First Middle	180 PFC / 9M	\$ 48.00	20.90	4800	100.3	200.6	2	9.6	\$ 460.80	N	
DS6, DS13 Ground North East, First North East	180 PFC / 9M	\$ 48.00	20.90	3800	79.4	158.8	2	7.6	\$ 364.80	N	
DS7A, Ground East	180 PFC / 9M	\$ 48.00	20.90	4350	90.9	90.9	1	4.35	\$ 208.80	N	
DS7B, Ground East	180 PFC / 9M	\$ 48.00	20.90	3019	63.1	63.1	1	3.019	\$ 144.91	N	
DS7C, DS14C, Ground South	180 PFC / 9M	\$ 48.00	20.90	1055	22.0	44.1	2	2.11	\$ 101.28	N	
DS8, First West	180 PFC / 9M	\$ 48.00	20.90	2145	44.8	44.8	1	2.145	\$ 102.96	N	
DS10, First Cantlever West	180 PFC / 9M	\$ 48.00	20.90	3164	66.1	66.1	1	3.164	\$ 151.87	N	
Ds12, First Cantlever East	180 PFC / 9M	\$ 48.00	20.90	3744	78.2	78.2	1	3.744	\$ 179.71	N	
DS14A, First East	180 PFC / 9M	\$ 48.00	20.90	4680	97.8	97.8	1	4.68	\$ 224.64	N	
DS14B, First East	180 PFC / 9M	\$ 48.00	20.90	3350	70.0	70.0	1	3.35	\$ 160.80	N	
Total PFC Beams						18					
FP1, Ground West	100 * 50 * 4.0 / 8M	\$ 20.00	8.49	3713	31.5	31.5	1	3.713	\$ 74.26	N	
FP2, Ground Middle	100 * 50 * 4.0 / 8M	\$ 20.00	8.49	4638	39.4	39.4	1	4.638	\$ 92.76	N	
FP3, Ground East	100 * 50 * 4.0 / 8M	\$ 20.00	8.49	2719	23.1	23.1	1	2.719	\$ 54.38	N	
FP 4a, Ground East Beach	75 * 50 * 4.0 / 8M	\$ 16.00	6.90	2956	20.4	20.4	1	2.956	\$ 47.30	N	
FP 4b, Ground East Beach	75 * 50 * 4.0 / 8M	\$ 16.00	6.90	2489	17.2	17.2	1	2.489	\$ 39.82	N	
FP5, First West	100 * 50 * 4.0 / 8M	\$ 20.00	8.49	1787	15.2	15.2	1	1.787	\$ 35.74	N	
FP6, First Breakfast	100 * 50 * 4.0 / 8M	\$ 20.00	8.49	3728	31.7	31.7	1	3.728	\$ 74.56	N	
FP7, First Middle	100 * 50 * 4.0 / 8M	\$ 20.00	8.49	2810	23.9	23.9	1	2.81	\$ 56.20	N	
FP7, First East	75 * 50 * 4.0 / 8M	\$ 16.00	6.90	2719	18.8	18.8	1	2.719	\$ 43.50	N	
FP9a, First East Beach (MATCH FP4a)	75 * 50 * 4.0 / 8M	\$ 16.00	6.90	2956	20.4	20.4	1	2.956	\$ 47.30	N	
FP9b, First East Beach	75 * 50 * 4.0 / 8M	\$ 16.00	6.90	2819	19.5	19.5	1	2.819	\$ 45.10	N	
Total Fixing Plates						6	33.334				
Raked Column, Ground (Post Only, Not Cap or Foot)	152 * 76 * 5mm RHS	\$ 57.00	16.70	235	3.9	3.9	1	0.235278	\$ 13.41	N	Rise 215
Raked Column, Ground (Post Only, Not Cap or Foot)	152 * 76 * 5mm RHS	\$ 57.00	16.70	991	16.5	16.5	1	0.99091	\$ 56.48	N	965
Raked Column, Ground (Post Only, Not Cap or Foot)	152 * 76 * 5mm RHS	\$ 57.00	16.70	2,230	37.2	37.2	1	2.230147	\$ 127.12	N	2195
Raked Column, Ground (Post Only, Not Cap or Foot)	152 * 76 * 5mm RHS	\$ 57.00	16.70	2,633	44.0	44.0	1	2.633151	\$ 150.09	N	2595
Normal Column, Ground (Post Only, Not Cap or Foot)	152 * 76 * 5mm RHS	\$ 57.00	16.70	2,490	41.6	41.6	1	2.49	\$ 141.93	N	2490
Raked Column, Ground (Post Only, Not Cap or Foot)	152 * 76 * 5mm RHS	\$ 57.00	16.70	2,422	40.4	40.4	1	2.421574	\$ 138.03	N	2385
Raked Column, First	152 * 76 * 5mm RHS	\$ 57.00	16.70	2,542	42.5	212.3	5	12.71238	\$ 724.61	N	2505
Normal Column, First	152 * 76 * 5mm RHS	\$ 57.00	16.70	2505	41.8	41.8	1	2.505	\$ 142.79	N	
Total Columns						12	26.21844				
Beach PFC joiner	130x5 FLAT Duragal	\$ 32.50	4.80	200	1.0	1.9	2	0.4	\$ 13.00	N	
Joists -North East Bearer	100 * 50 * 4.0 / 8M	\$ 20.00	8.49	990	8.4	16.8	2	1.98	\$ 39.60	N	
PFC Column Stiffener (150x6mm FLAT / 6M)	150x6mm FLAT / 6M	\$ 6.70	3.60	158	0.6	4.0	7	1.106	\$ 7.41	N	
PFC Column Stiffener (100x6mm FLAT / 6M)	100x6mm FLAT / 6M	\$ 6.70	3.60	158	0.6	1.1	2	0.316	\$ 2.12	N	

CUT LIST	M & M	REVISIONS	
		MM/DD/YY	REMARKS
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5	__ / __ / __	...	

WARNING, 4800 LENGTHS HAVE DOUBLE MITRE, ALL OTHERS HAVE SINGLE MITRE.

		Length	Cuts				Waste		EDCON CUTS	
180 PFC / 9M		9000	4800	3800			400		5000	4000
180 PFC / 9M		9000	4800	3800			400		5000	4000
180 PFC / 9M		9000	4680	3800			520		5000	4000
180 PFC / 9M		9000	4350	3800			850		5000	4000
180 PFC / 9M		9000	3744	3019	1815		422		5000	4000
180 PFC / 9M		9000	3414	3164	2145		277		5500	3500
180 PFC / 9M		9000	3414	3350	1055	1055	126		5500	3500

WARNING, SOME COLUMNS ARE RAKED AT 7 DEG AND 2 ARE VERTICAL.

		Length	Cuts				Waste		EDCON CUTS	
152 * 76 * 5mm RHS	\$338.64	8000	2505	2542	2542		411		2664	2664
152 * 76 * 5mm RHS	\$338.64	8000	2542	2542	2542		374		2664	2664
152 * 76 * 5mm RHS	\$338.64	8000	2490	2632	2422		456		2664	2664
152 * 76 * 5mm RHS	\$338.64	3500	2232	1002	252		14		3500	

		Length	Cuts				Waste		EDCON CU
100 * 50 * 4.0 / 8M	\$ 145.44	8000	4638	2810			552		
100 * 50 * 4.0 / 8M	\$ 145.44	8000	3728	3713			559		
100 * 50 * 4.0 / 8M	\$ 145.44	8000	2719	1787	2719		775		
75 * 50 * 4.0 / 8M	\$118.56	8000	2956	2956			2088		
75 * 50 * 4.0 / 8M	\$118.56	8000	2819	990	990		3201		
75 * 50 * 4.0 / 8M	\$118.56	8000	2489				5511		

ROUGH CUT LIST



REVISIONS

MM/DD/YY	REMARKS

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Joists - DURAGAL, Ground West/East	100 * 50 * 4.0 / 8M	\$ 21.10	8.49	1660	14.1	267.8	19	31.54
Joists - DURAGAL Ground Middle	100 * 50 * 4.0 / 8M	\$ 21.10	8.49	3238	27.5	302.4	11	35.618
Joists - DURAGAL EAST, Ground, First	75 * 50 * 4.0 / 8M	\$ 17.00	6.90	990	6.8	177.6	26	25.74
Joists - DURAGAL, First West/East	100 * 50 * 4.0 / 8M	\$ 21.10	8.49	1990	16.9	185.8	11	21.89
Joists - DURAGAL, First West Short	100 * 50 * 4.0 / 8M	\$ 21.10	8.49	1540	13.1	52.3	4	6.16
Joists - DURAGAL First Middle	100 * 50 * 4.0 / 8M	\$ 21.10	8.49	3580	30.4	334.3	11	39.38
Joists - DURAGAL Ground North East	100 * 50 * 4.0 / 8M	\$ 21.10	8.49	1770	15.0	45.1	3	5.31
Joists - DURAGAL First North East	100 * 50 * 4.0 / 8M	\$ 21.10	8.49	2100	17.8	53.5	3	6.3
Total Joists							88	171.938

ROUGH CUT LIST



REVISIONS

MM/DD/YY	REMARKS

BUILDING SEQUENCE

Datum setout from North Eastern corner. 11325mm from corner to start at North Western corner.
Finished deck level at platform floor level in studio (2000mm from NE corner). 19mm below finished floor level.

Move all ground PFC, DS1-DS7C into place, so don't have to move around new structure.
Move some first PFC into approx area, so can shift for lifting. Some may be rolled on deck, so leave on drive level.
Get 2 labours for day to do this.
Install DS1 on top of column 1 (not fixed).
Install FP1 and bolt to DS1.

Lifting can be done via, 4 prop lifting rig or 2 lifting angles with LVL between.
Lift DS3 on top of column 2 (not fixed).
Bolt DS3 FP1 and prop to stabilise.
Install DS2 and bolt too DS1 and DS3.
Drill first 2 footings, insert studs and adjust nuts/chock to level and square.

Install FP2, bolt too DS3.
Prop Column 3.
Lift DS5 on top of column, stabilise, bolt to column and FP2.
Install FP3, bolt to DS5.
Drill footing 3, insert studs and adjust level.
Lift DS4 and bolt too DS3 and DS5. Prop level.
Level and square, then install bracing.

Install FP4a,b.
Prop column 5, 6, THIS MUST BE SAFE TO LIFT DS7 ON TOP!!!
Lift DS7C, DS7B and bolt together, install temp timber joists between FP4 and DS7b.
Prop column 4,
Lift DS7A, install temp timber joists between FP4 and DS7A.
Install DJ4 and clamp to DS7 to allow adjustments before final hole drilling.

Lift DS6, bolt too DS5 and DS7.

Check for level, square, adjust columns.
Drill DJ4 and final bolt to DS7A.

Grout in all columns and bearing plates.

Install all joists

Install ground floor timber deck.

LIFT ON TOP OF PORTABLE SCAFF AND ROLL AROUND. THEN LIFT EACH END ON TOP OF COLUMNS.

Install all first columns.
Install all first floor fixing plates, FP5 too FP9.
Drill DS8 for column and bolt to column and FP
Drill DS10 for DS9 and column, then bolt to column and FP.
Lift DS9, bolt to DS8 and DS10. WILL NEED LIFTING DESIGN, POSSIBLE OFF COLUMNS.

Drill DS12 for DS13 and column, then bolt to column and FP.
Lift DS14, A,B,C
Install DJ4 and clamp to DS14 to allow adjustments before final hole drilling.
Lift DS11 and bolt too DS10 and DS12. WILL NEED LIFTING DESIGN.

Check for level, square, adjust columns and bracing.
Drill DJ4 and final bolt to DS14A.
Grout in bearing plates.

Install all joists
Install ground and first balustrades, post drill first outside corner holes.

Install first floor timber deck.

CAN ADJUST COLUMNS ON FOOTINGS BY +-100 mm. So drill column holes in lower PFCs (top/bottom).
DON'T DRILL first PFCs for columns, do this post gal to fit exact location.

DRILL FIRST OUTSIDE CORNER BALUSTRADE HOLES 18MM oversize and use 50mm square washers on inside to allow for the complex corner. Drill all other balustrade holes 14mm, EXCEPT: DON'T drill kitchen door balustrade until install new sliding door. Don't drill ground west most, so match final ground level.

LIFTING METHOD

Lift ground floor beams using the lifting rig used for entry deck.

Lift first floor beams using portable scaff running on ground floor deck.
Top deck with plywood to allow easy rolling.
Put timber bearing plates on top of portable scaff.
Lift beam onto portable scaff.
Roll into position and tie down scaff if required.
Lift each end of beam in turn into resting position.

Most difficult lift will be DS11.
Use both portable scaffs facing North/South.
Add LVL to top of scaff for the 330mm overhang.
Tie down scaff.
Using lifting rig to lift beam on scaff.
Slide beam to edge then lift each end into place.

BUILD SEQUENCE



REVISIONS

REMARKS

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