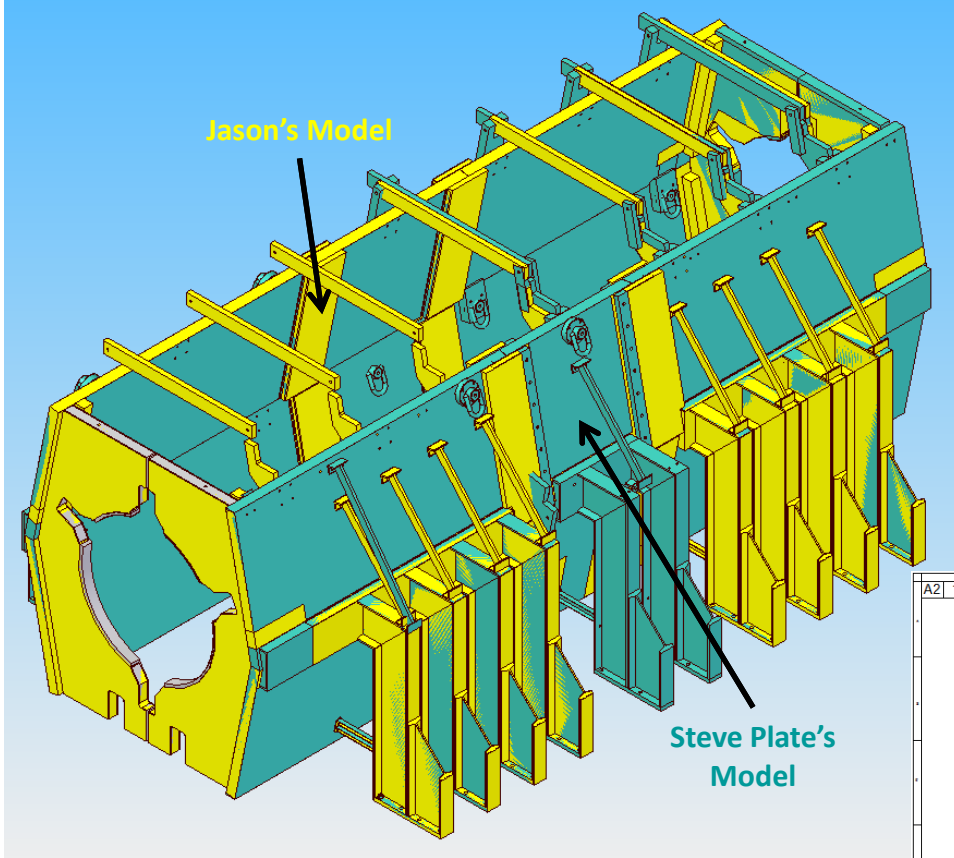


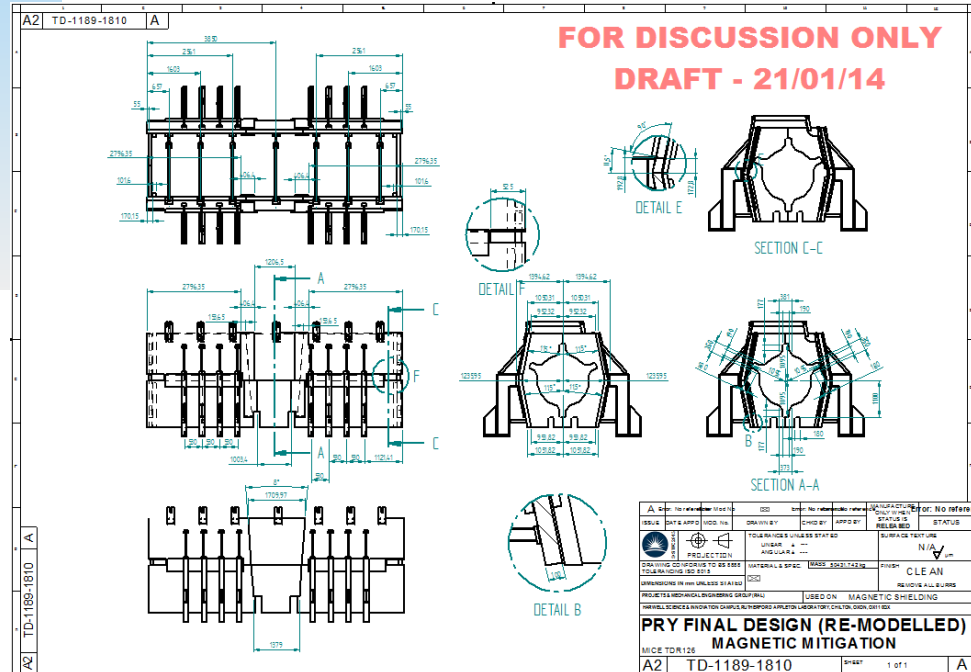
PRY Integration Progress

magnetic field mitigation meeting 21/01/14

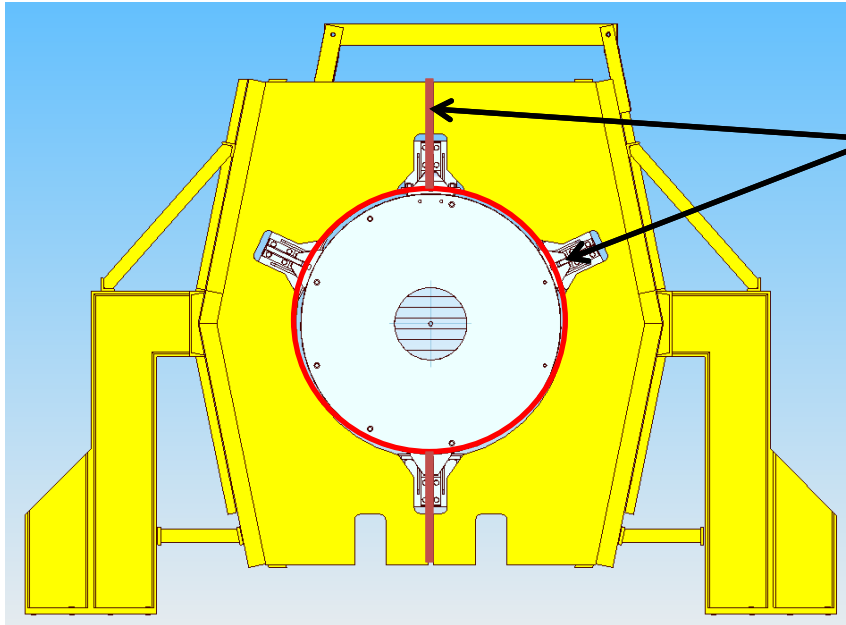
Latest Geometry



Iterative process to define the final design of a PRY that fits with the complexity of the geometry in the MICE Hall

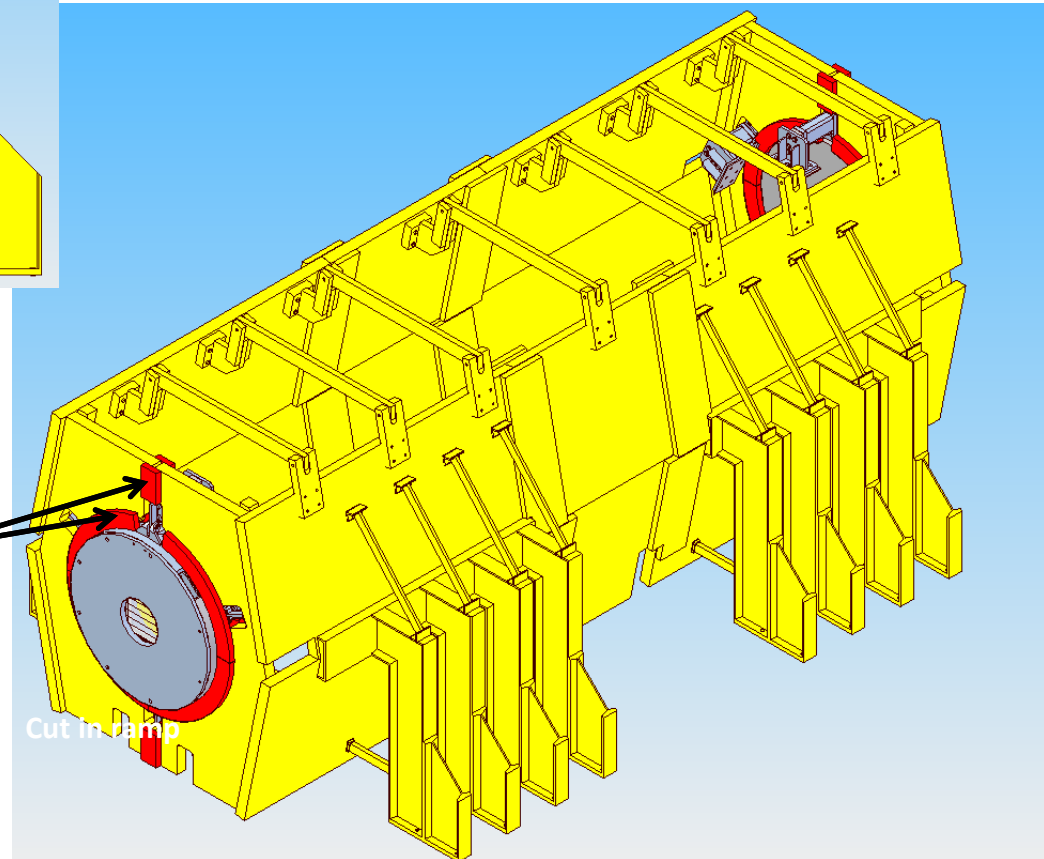


V-Plate Link & Backing Plates



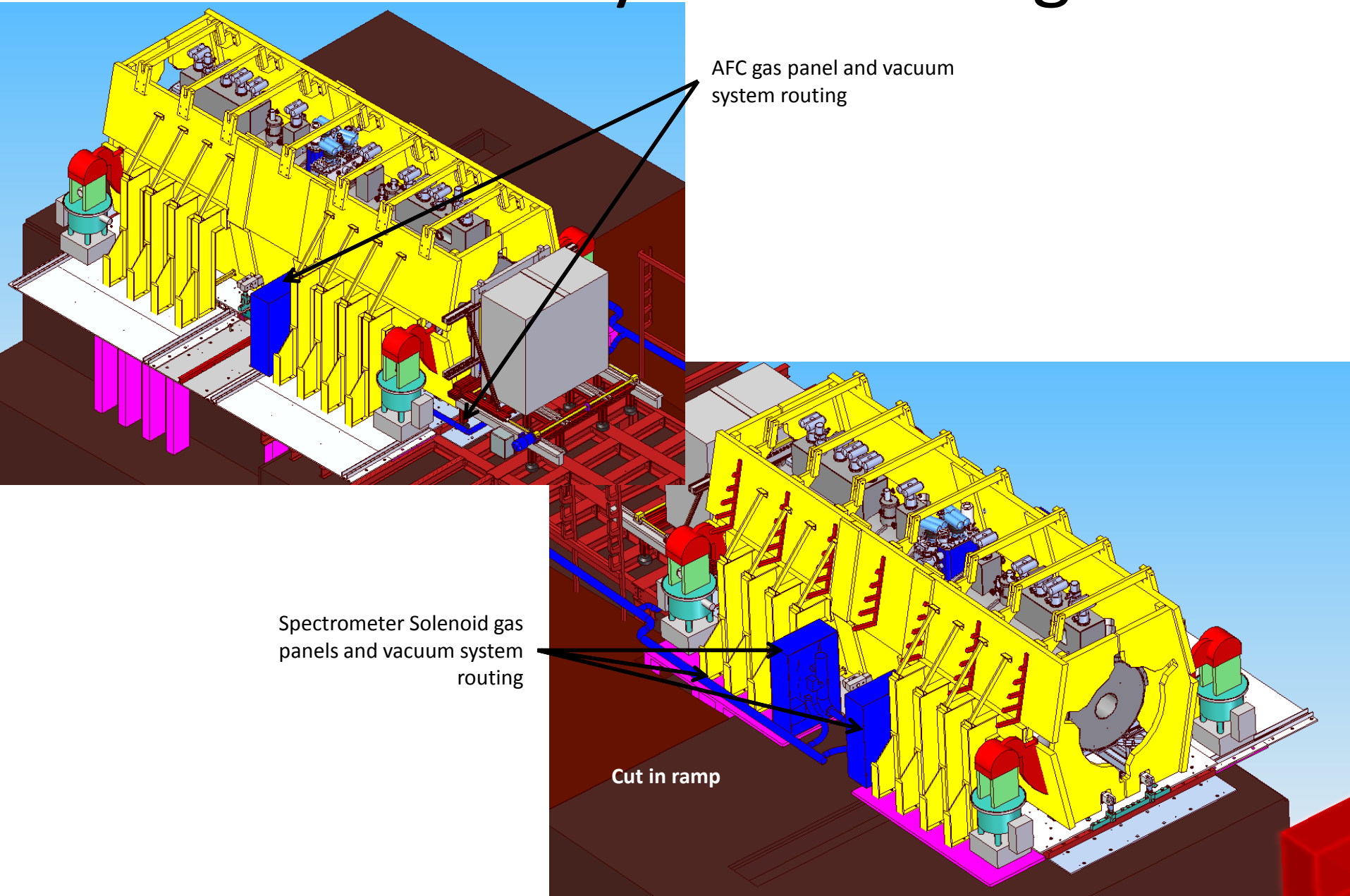
Gap required around V-plate and between links to account for manufacturing tolerances, assembly tolerances, flooring / platform inaccuracies, strain etc

Moveable backing plates to be used to take up gaps and preserve magnetic performance



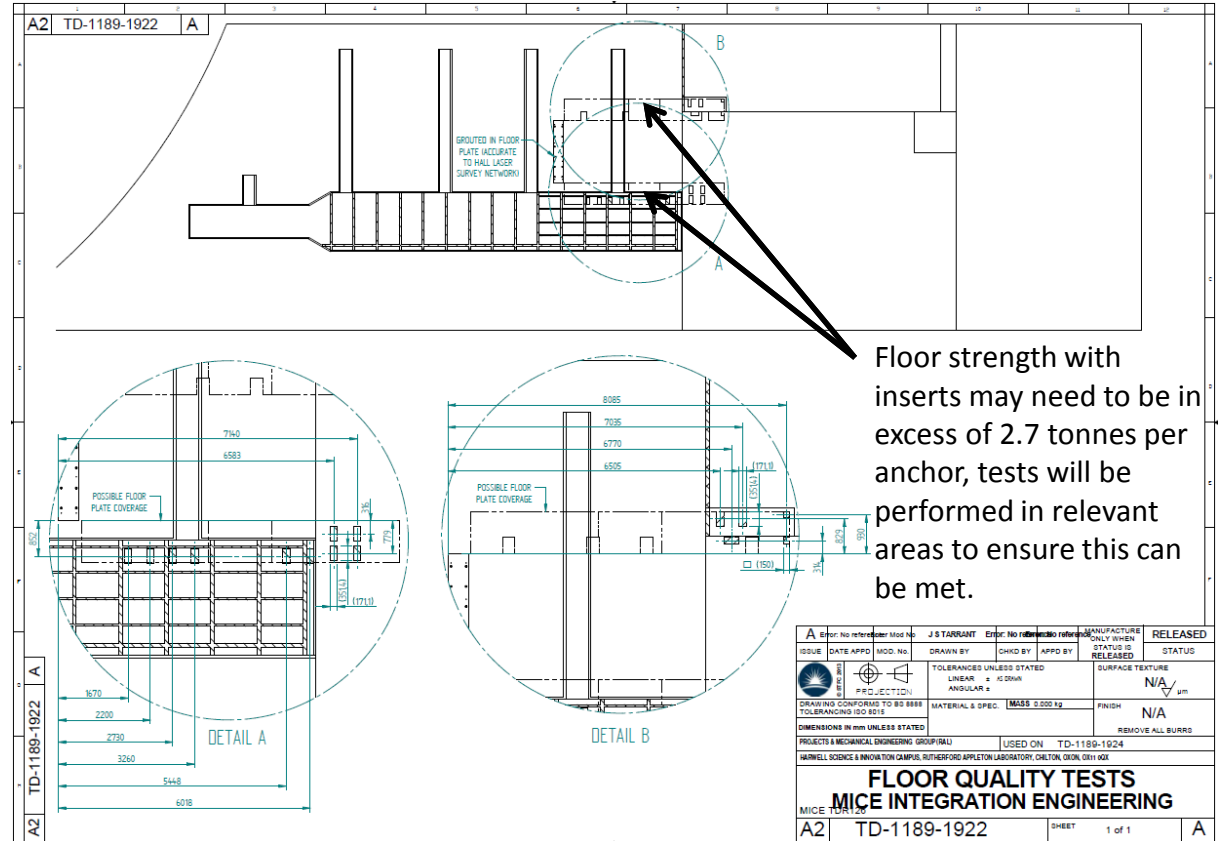
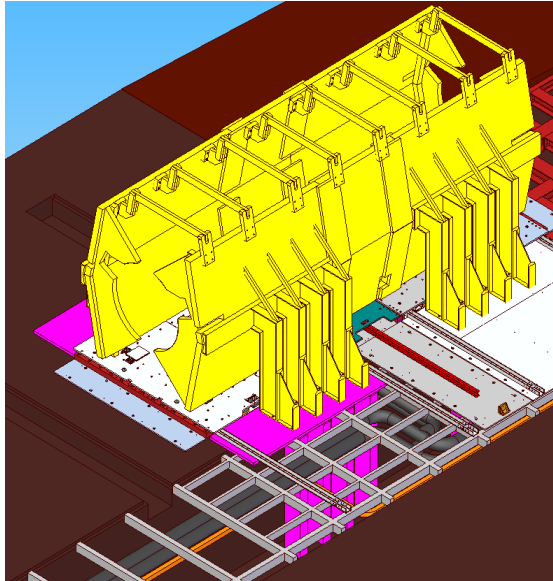
Cut in ramp

Vacuum system routing

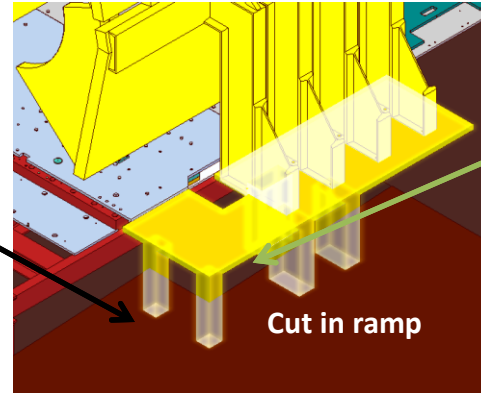
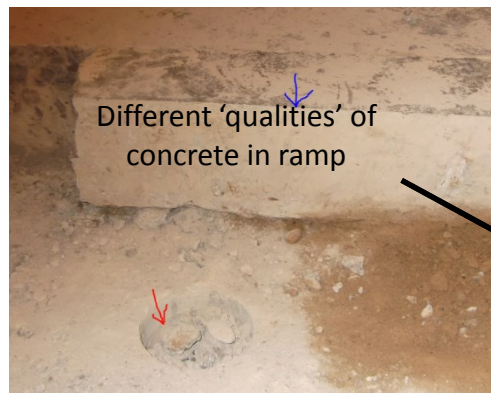


South Side Ramp Cutting

Jason Tarrant, David Pyke (BPG),
OPUS Consultants (structural)



Floor strength with inserts may need to be in excess of 2.7 tonnes per anchor, tests will be performed in relevant areas to ensure this can be met.

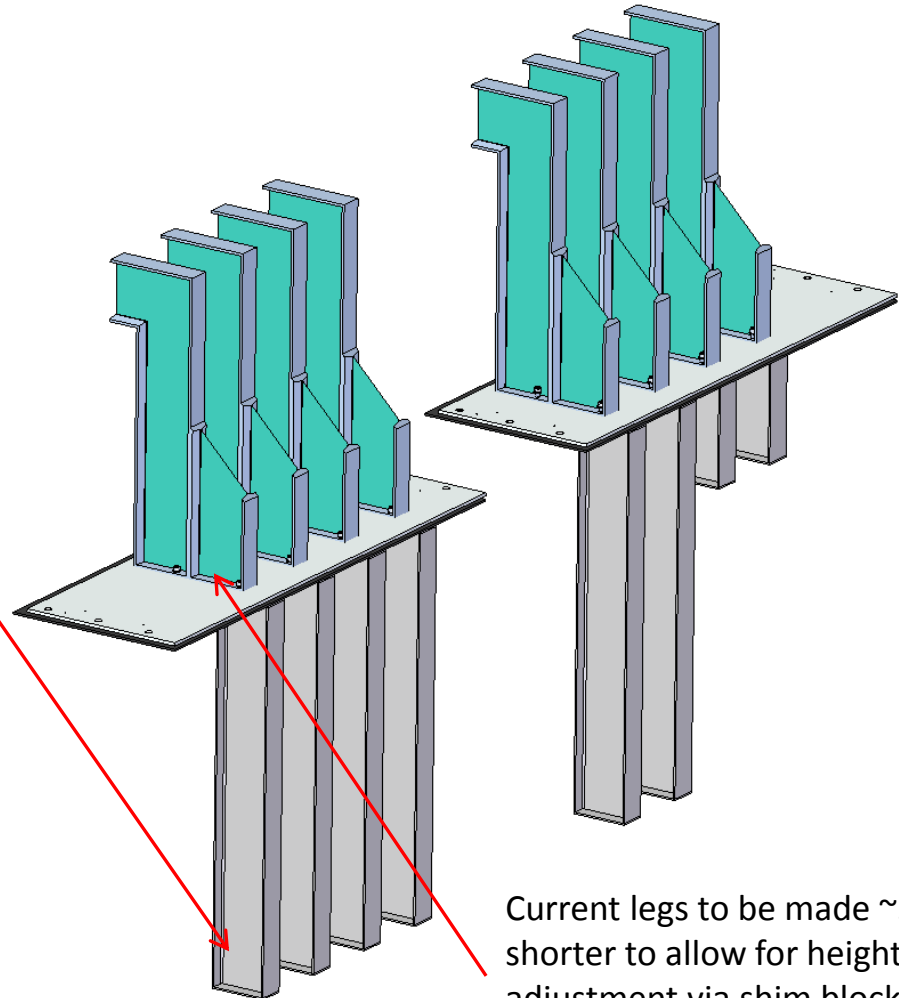
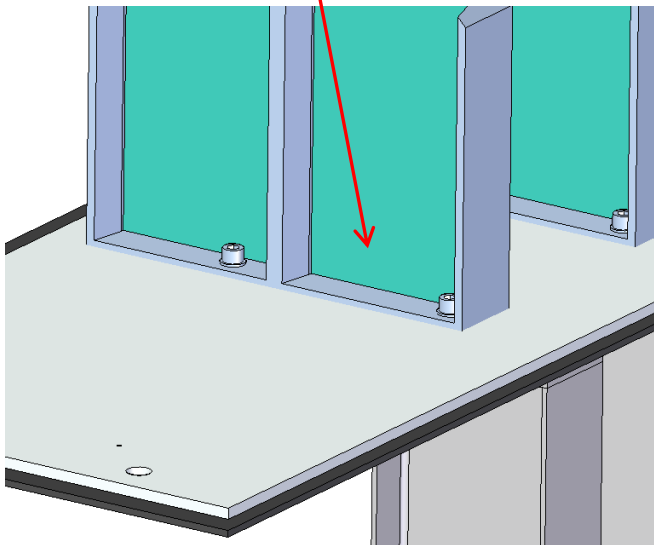


Ramp cut imminent, then MICE Hall clean-up

PRY Support

James Watson

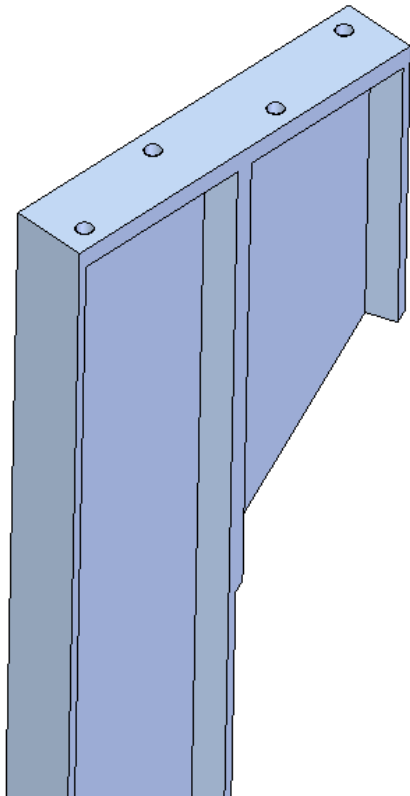
Currently looking at the positioning of the support columns, and how PRY legs interact with them and the floor.



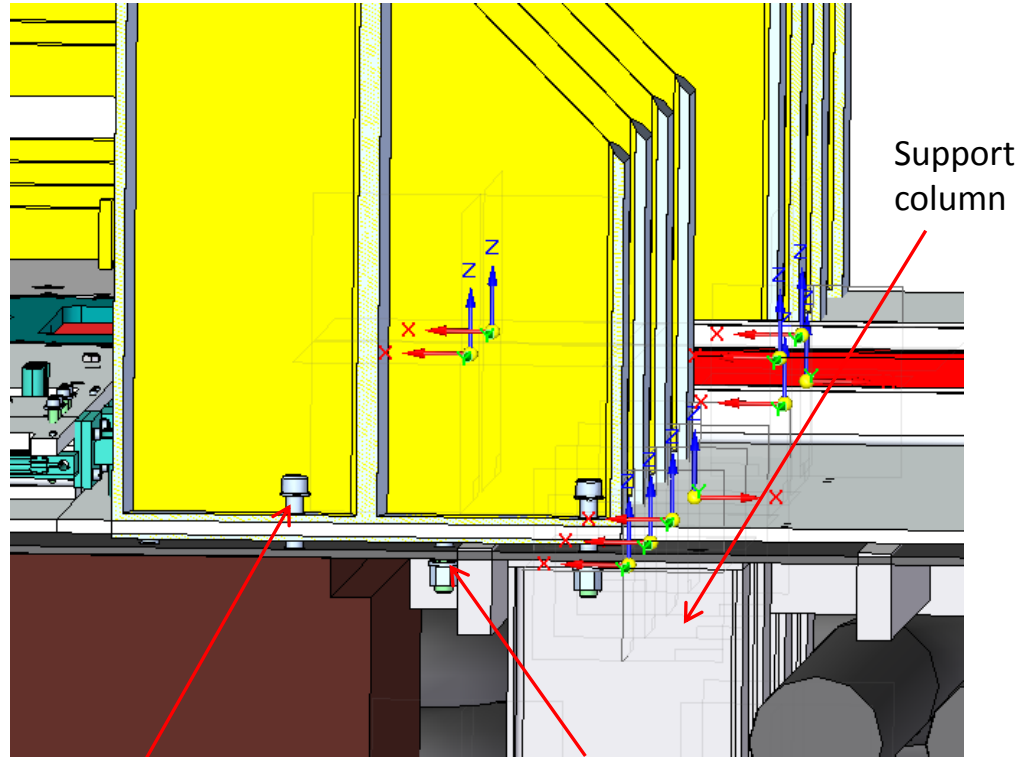
Current legs to be made ~30 mm shorter to allow for height adjustment via shim blocks that can be machined to suit

Possible Mods to Leg Geometry

James Watson



Current hole configuration



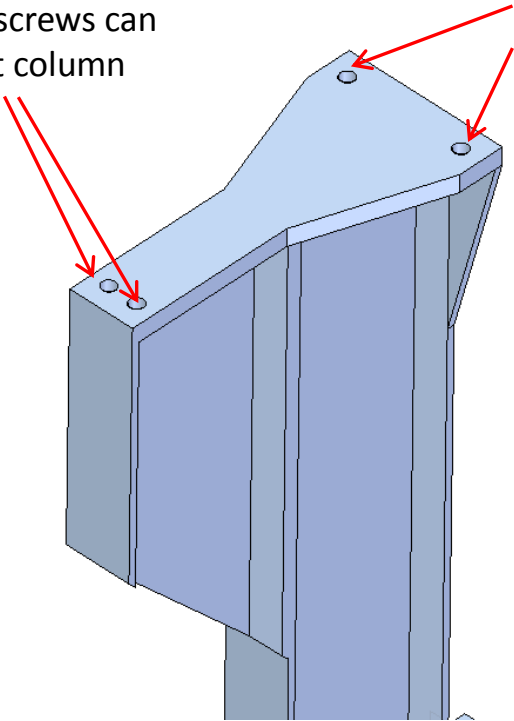
This screw is too near the one on the other side of the leg to allow clearance for floor anchors, and too near edge of trench.

Support column does not extend far enough for this screw to fasten into it, because existing floor support structure is in the way

Possible Mods to Leg Geometry

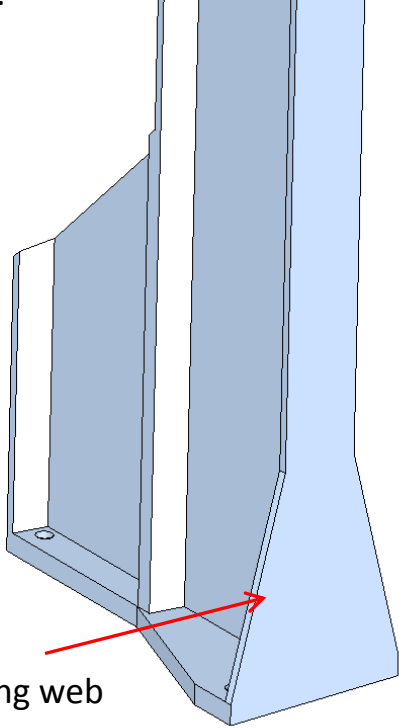
James Watson

Holes parallel with each other, so both screws can fix into support column



Suggested geometry

Spacing of holes increased, to allow clearance for floor anchors. Both holes sufficiently far from the edge of the trench.



Supporting web

Schedule

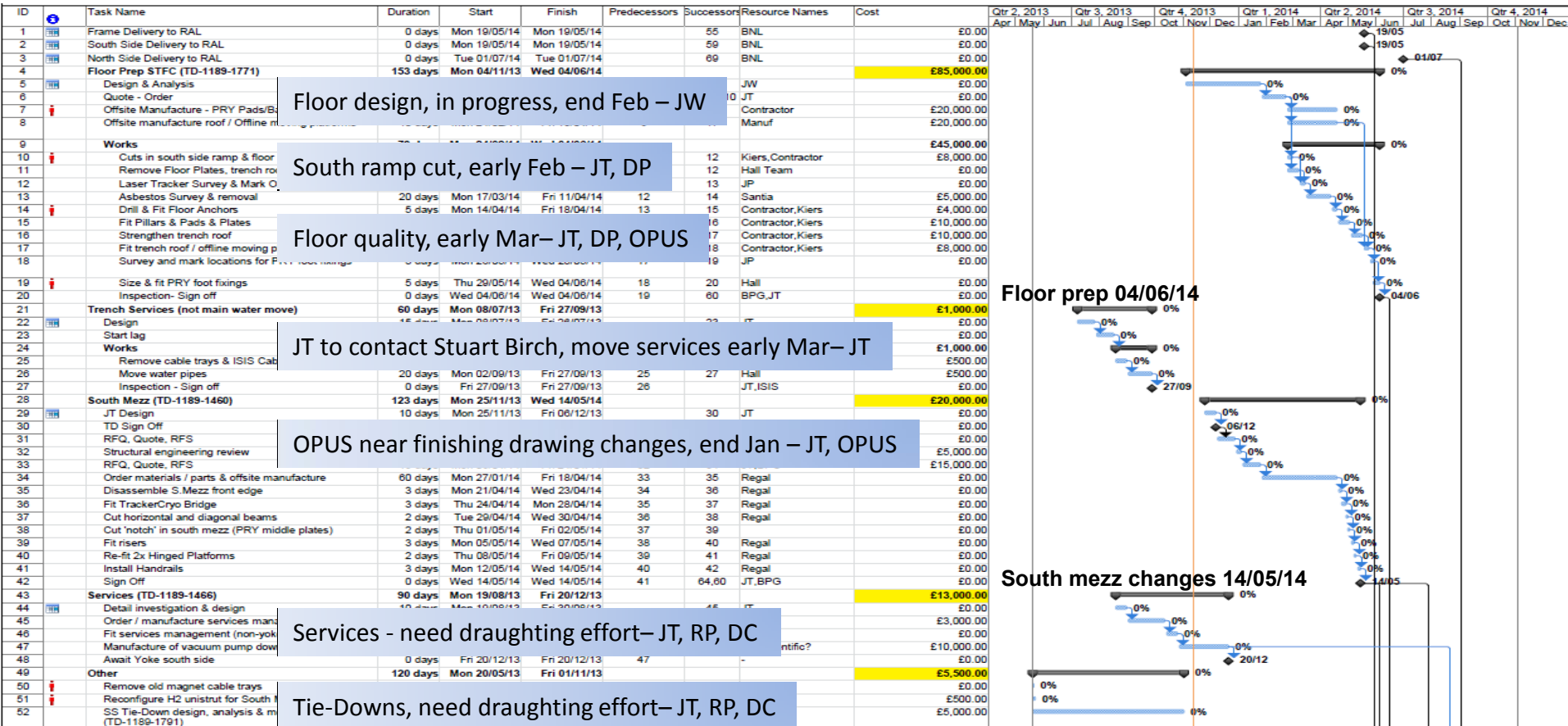
Leg delivery 19/05/14

South side delivery 19/05/14

North side delivery 01/07/14

Following Schedule Based On...

To RAL



Floor design, in progress, end Feb – JW

South ramp cut, early Feb – JT, DP

Floor quality, early Mar – JT, DP, OPUS

JT to contact Stuart Birch, move services early Mar – JT

OPUS near finishing drawing changes, end Jan – JT, OPUS

Services - need draughting effort – JT, RP, DC

Tie-Downs, need draughting effort – JT, RP, DC

Floor prep 04/06/14

South mezz changes 14/05/14

Schedule

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Resource Names	Cost	Qtr 2, 2013		Qtr 3, 2013			Qtr 4, 2013			Qtr 1, 2014			Qtr 2, 2014			Qtr 3, 2014			Qtr 4, 2014						
									Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
53	Yoke Installation	370 days	Mon 20/05/13	Fri 17/10/14				£7,000.00	0%																							
54	Design, Manufacture & approval of lifting tooling	120 days	Mon 20/05/13	Fri 01/11/13		57	Contractor	£7,000.00	0%																							
55	Deliver south side frame from storage	1 day	Mon 19/05/14	Mon 19/05/14	1	56	HeavyGang	£0.00	0%																							
56	Remove South Mezz front edge	3 days	Tue 20/05/14	Thu 22/05/14	55	57	Hall	£0.00	0%																							
57	Fit south side frame	6 days	Fri 23/05/14	Fri 30/05/14	56,54	58	BNL,JT,Hall	£0.00	0%																							
58	Fit south side services (frame mount only)	30 days	Mon 02/06/14	Fri 11/07/14	57	63	Hall	£0.00	0%																							
59	Deliver remainder of south yoke to hall from storage	2 days	Mon 19/05/14	Tue 20/05/14	2	60	HeavyGang	£0.00	0%																							
60	Fit south end-side plates (not middles)	20 days	Thu 05/06/14	Wed 02/07/14	59,20,42	65,61	BNL,JT,Hall	£0.00	0%																							
61	Fit south side doublers except top-outers	1 day	Thu 03/07/14	Thu 03/07/14	60	62	Hall,BNL,JT	£0.00	0%																							
62	Fit south V-Plate connections	2 days	Fri 04/07/14	Mon 07/07/14	61	63		£0.00	0%																							
63	Fit Yoke mount services management	10 days	Mon 14/07/14	Fri 25/07/14	58,62	64	Hall,BNL,JT	£0.00	0%																							
64	Re-Fit South Mezz front edge	3 days	Mon 28/07/14	Wed 30/07/14	42,63	65	Hall,BNL,JT	£0.00	0%																							
65	Move Experimental devices into place & fix (assume already on moving platforms)	15 days	Thu 31/07/14	Wed 20/08/14	60,64	67,66	Hall,BNL,JT	£0.00	0%																							
66	Fit south side middles & doublers	3 days	Thu 21/08/14	Mon 25/08/14	65	68,76	BNL,JT,Hall	£0.00	0%																							
67	Fit vacuum pump down extensions to devices	2 days	Thu 21/08/14	Fri 22/08/14	47,65	68	Hall	£0.00	0%																							
68	Fit north side frame	5 days	Tue 26/08/14	Mon 01/09/14	67,66	69	BNL,JT,Hall	£0.00	0%																							
69	Deliver remainder of north yoke to hall from storage	2 days	Tue 02/09/14	Wed 03/09/14	68,3	70	HeavyGang	£0.00	0%																							
70	Fit north side-end plates	20 days	Thu 04/09/14	Wed 01/10/14	69	71	BNL,JT,Hall	£0.00	0%																							
71	Fit north side doublers & middle	3 days	Thu 02/10/14	Mon 06/10/14	70	72	Hall,BNL,JT	£0.00	0%																							
72	Fit S-V-Plate connections	2 days	Tue 07/10/14	Wed 08/10/14	71	73		£0.00	0%																							
73	Fit PRY cross-bars	2 days	Thu 09/10/14	Fri 10/10/14	72	74		£0.00	0%																							
74	Fit SS tie-downs, cut in-fills & fit	5 days	Mon 13/10/14	Fri 17/10/14	73	75	Hall	£0.00	0%																							
75	Inspection - Sign off	0 days	Fri 17/10/14	Fri 17/10/14	74		BNL,JT	£0.00	0%																							
76	Services Installation	50 days	Tue 26/08/14	Mon 03/11/14	66		DL,Hall	£2,000.00	0%																							

South side install 25/06/14

North side install 17/10/14

Services install 26/11/14

All of the above based on realistic timescales, no added contingency