

	Project				Job Ref.	
	Creech DRP PH2				Sheet no.	
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	Calc. by Allison Valencia	Date 10/16/2025	Chk'd by	Date	App'd by	Date

FoundationReactions

FoundationReactions, First-order linear, Local SupportAxis System

Supports

Support	Coordinates [ft, in]			Reference	Size	Result rotation [°]	Loadcase	Reactions					
	X	Y	Z					F _x [kip]	F _y [kip]	F _z [kip]	M _x [kip ft]	M _y [kip ft]	M _z [kip ft]
SUP A.9/4.1	4' 0"	32' 2"	100' 0"	SC A.9/4.1	HSS 8x8x1/2	0.0000	1 Self weight - excluding slabs	0.0	0.0	7.2	0.0	0.0	-0.0
							2 Slab self weight	-0.0	-0.0	17.8	0.0	0.0	0.0
							3 Dead	-0.0	-0.0	48.4	0.0	0.0	0.0
							4 Live	-0.0	-0.0	41.8	0.0	0.0	-0.0
							5 Roof Live	-0.0	-0.0	9.5	0.0	0.0	0.0
							11 Wind +X',GCpi 0.18,-Cp	0.0	0.0	-11.2	0.0	0.0	-0.0
							12 Wind +X',GCpi 0.18,+Cp	0.0	0.0	-3.5	0.0	0.0	-0.0
							14 Wind +Y',GCpi 0.18,-Cp	-0.0	-0.0	-10.0	0.0	0.0	-0.0
							15 Wind +Y',GCpi 0.18,+Cp	-0.0	-0.0	-3.5	0.0	0.0	-0.0
							27 Minimum Snow Load	-0.0	-0.0	10.0	0.0	0.0	0.0
							28 Balanced Snow Load	-0.0	-0.0	8.2	0.0	0.0	0.0
							30 Drift Snow Load 1	0.0	-0.0	10.9	0.0	0.0	-0.0
SUP A.9/4.9	39' 8"	32' 2"	100' 0"	SC A.9/4.9	HSS 10x10x1/2	0.0000	1 Self weight - excluding slabs	0.0	-0.0	13.4	0.0	0.0	-0.0
							2 Slab self weight	-0.0	-0.0	39.4	0.0	0.0	0.0
							3 Dead	-0.0	-0.0	109.2	0.0	0.0	0.0
							4 Live	-0.0	-0.0	82.6	0.0	0.0	-0.0
							5 Roof Live	-0.0	-0.0	22.7	0.0	0.0	0.0
							11 Wind +X',GCpi 0.18,-Cp	0.0	-0.0	-26.6	0.0	0.0	-0.0
							12 Wind +X',GCpi 0.18,+Cp	0.0	-0.0	-8.3	0.0	0.0	-0.0
							14 Wind +Y',GCpi 0.18,-Cp	-0.0	0.0	-26.3	0.0	0.0	-0.0
							15 Wind +Y',GCpi 0.18,+Cp	-0.0	0.0	-8.3	0.0	0.0	-0.0
							27 Minimum Snow Load	-0.0	-0.0	23.8	0.0	0.0	0.0
							28 Balanced Snow Load	-0.0	-0.0	19.4	0.0	0.0	0.0
							30 Drift Snow Load 1	0.0	-0.0	20.3	0.0	0.0	-0.0
SUP A.9/5.9	80' 0"	32' 2"	100' 0"	SC A.9/5.9	HSS 8x8x1/2	0.0000	1 Self weight - excluding slabs	0.0	-0.0	7.0	0.0	0.0	-0.0
							2 Slab self weight	-0.0	0.0	16.8	0.0	0.0	0.0
							3 Dead	-0.0	0.0	46.1	0.0	0.0	0.0
							4 Live	-0.0	0.0	34.4	0.0	0.0	-0.0
							5 Roof Live	-0.0	0.0	9.4	0.0	0.0	0.0
							11 Wind +X',GCpi 0.18,-Cp	0.0	0.0	-11.0	0.0	0.0	-0.0

Support	Coordinates [ft, in]			Reference	Size	Result rotation [°]	Loadcase	Reactions					
	X	Y	Z					F _x [kip]	F _y [kip]	F _z [kip]	M _x [kip ft]	M _y [kip ft]	M _z [kip ft]
SUP A.9/5.9	80' 0"	32' 2"	100' 0"	SC A.9/5.9	HSS 8x8x1/2	0.0000	12 Wind +X',GCpi 0.18,+Cp	0.0	0.0	-3.4	0.0	0.0	-0.0
							14 Wind +Y',GCpi 0.18,-Cp	-0.0	-0.0	-11.0	0.0	0.0	-0.0
							15 Wind +Y',GCpi 0.18,+Cp	-0.0	-0.0	-3.4	0.0	0.0	-0.0
							27 Minimum Snow Load	-0.0	0.0	9.8	0.0	0.0	0.0
							28 Balanced Snow Load	-0.0	0.0	8.0	0.0	0.0	0.0
							30 Drift Snow Load 1	0.0	0.0	10.0	0.0	0.0	-0.0
SUP C/4.1	4' 0"	60' 9"	100' 0"	SC C/4.1	HSS 8x8x1/2	0.0000	1 Self weight - excluding slabs	0.0	0.0	8.6	0.0	0.0	-0.0
							2 Slab self weight	-0.0	-0.0	18.9	0.0	0.0	0.0
							3 Dead	0.0	-0.0	51.2	0.0	0.0	0.0
							4 Live	-0.0	-0.0	62.1	0.0	0.0	-0.0
							5 Roof Live	0.0	-0.0	10.0	0.0	0.0	0.0
							11 Wind +X',GCpi 0.18,-Cp	0.0	0.0	-10.6	0.0	0.0	-0.0
							12 Wind +X',GCpi 0.18,+Cp	0.0	0.0	-3.7	0.0	0.0	-0.0
							14 Wind +Y',GCpi 0.18,-Cp	0.0	-0.0	-10.5	0.0	0.0	-0.0
							15 Wind +Y',GCpi 0.18,+Cp	0.0	-0.0	-3.7	0.0	0.0	-0.0
							27 Minimum Snow Load	0.0	-0.0	10.5	0.0	0.0	0.0
							28 Balanced Snow Load	0.0	-0.0	8.6	0.0	0.0	0.0
							30 Drift Snow Load 1	0.0	-0.0	11.4	0.0	0.0	-0.0
SUP C/4.9	39' 8"	60' 9"	100' 0"	SC C/4.9	HSS 10x10x1/2	0.0000	1 Self weight - excluding slabs	0.0	-0.0	16.8	0.0	0.0	-0.0
							2 Slab self weight	-0.0	-0.0	46.1	0.0	0.0	0.0
							3 Dead	0.0	-0.0	124.4	0.0	0.0	0.0
							4 Live	-0.0	-0.0	109.9	0.0	0.0	-0.0
							5 Roof Live	0.0	-0.0	23.9	0.0	0.0	0.0
							11 Wind +X',GCpi 0.18,-Cp	0.0	-0.0	-25.4	0.0	0.0	-0.0
							12 Wind +X',GCpi 0.18,+Cp	0.0	-0.0	-8.8	0.0	0.0	-0.0
							14 Wind +Y',GCpi 0.18,-Cp	0.0	0.0	-27.7	0.0	0.0	-0.0
							15 Wind +Y',GCpi 0.18,+Cp	0.0	0.0	-8.8	0.0	0.0	-0.0
							27 Minimum Snow Load	0.0	-0.0	25.1	0.0	0.0	0.0
							28 Balanced Snow Load	0.0	-0.0	20.5	0.0	0.0	0.0
							30 Drift Snow Load 1	0.0	-0.0	21.5	0.0	0.0	-0.0
SUP C/5.9	80' 0"	60' 9"	100' 0"	SC C/5.9	HSS 8x8x1/2	0.0000	1 Self weight - excluding slabs	0.0	-0.0	9.3	0.0	0.0	-0.0

Support	Coordinates [ft, in]			Reference	Size	Result rotation [°]	Loadcase	Reactions					
	X	Y	Z					F _x [kip]	F _y [kip]	F _z [kip]	M _x [kip ft]	M _y [kip ft]	M _z [kip ft]
SUP C/5.9	80' 0"	60' 9"	100' 0"	SC C/5.9	HSS 8x8x1/2	0.0000	2 Slab self weight	-0.0	0.0	22.5	0.0	0.0	0.0
							3 Dead	0.0	0.0	60.6	0.0	0.0	0.0
							4 Live	-0.0	0.0	46.2	0.0	0.0	-0.0
							5 Roof Live	0.0	0.0	11.5	0.0	0.0	0.0
							11 Wind +X',GCpi 0.18,-Cp	0.0	0.0	-12.1	0.0	0.0	-0.0
							12 Wind +X',GCpi 0.18,+Cp	0.0	0.0	-4.2	0.0	0.0	-0.0
							14 Wind +Y',GCpi 0.18,-Cp	0.0	-0.0	-13.5	0.0	0.0	-0.0
							15 Wind +Y',GCpi 0.18,+Cp	0.0	-0.0	-4.2	0.0	0.0	-0.0
							27 Minimum Snow Load	0.0	0.0	12.1	0.0	0.0	0.0
							28 Balanced Snow Load	0.0	0.0	9.9	0.0	0.0	0.0
							30 Drift Snow Load 1	0.0	0.0	12.6	0.0	0.0	-0.0
SUP D.4/4.1	4' 0"	97' 4"	100' 0"	SC D.4/4.1	HSS 8x8x1/2	0.0000	1 Self weight - excluding slabs	-0.0	0.0	5.8	0.0	0.0	-0.0
							2 Slab self weight	0.0	-0.0	12.0	0.0	0.0	0.0
							3 Dead	0.0	-0.0	32.5	0.0	0.0	0.0
							4 Live	-0.0	0.0	46.3	0.0	0.0	-0.0
							5 Roof Live	0.0	0.0	6.3	0.0	0.0	0.0
							11 Wind +X',GCpi 0.18,-Cp	-0.0	0.0	-5.4	0.0	0.0	-0.0
							12 Wind +X',GCpi 0.18,+Cp	-0.0	0.0	-2.3	0.0	0.0	-0.0
							14 Wind +Y',GCpi 0.18,-Cp	0.0	-0.0	-6.3	0.0	0.0	-0.0
							15 Wind +Y',GCpi 0.18,+Cp	0.0	-0.0	-2.3	0.0	0.0	-0.0
							27 Minimum Snow Load	0.0	0.0	6.6	0.0	0.0	0.0
							28 Balanced Snow Load	0.0	0.0	5.4	0.0	0.0	0.0
							30 Drift Snow Load 1	0.0	-0.0	7.6	0.0	0.0	-0.0
SUP D.4/4.7	29' 8"	97' 4"	100' 0"	SC D.4/4.7	HSS 8x8x1/2	0.0000	1 Self weight - excluding slabs	-0.0	-0.0	6.2	0.0	0.0	-0.0
							2 Slab self weight	0.0	-0.0	13.3	0.0	0.0	0.0
							3 Dead	0.0	-0.0	36.9	0.0	0.0	0.0
							4 Live	-0.0	-0.0	51.2	0.0	0.0	-0.0
							5 Roof Live	0.0	-0.0	7.7	0.0	0.0	0.0
							11 Wind +X',GCpi 0.18,-Cp	-0.0	-0.0	-6.6	0.0	0.0	-0.0
							12 Wind +X',GCpi 0.18,+Cp	-0.0	-0.0	-2.8	0.0	0.0	-0.0
							14 Wind +Y',GCpi 0.18,-Cp	0.0	0.0	-8.6	0.0	0.0	-0.0
							15 Wind +Y',GCpi 0.18,+Cp	0.0	0.0	-2.8	0.0	0.0	-0.0

	Project				Job Ref.	
	Creech DRP PH2				Sheet no.	
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Support	Coordinates [ft, in]			Reference	Size	Result rotation [°]	Loadcase	Reactions					
	X	Y	Z					F _x [kip]	F _y [kip]	F _z [kip]	M _x [kip ft]	M _y [kip ft]	M _z [kip ft]
SUP D.4/4.7	29' 8"	97' 4"	100' 0"	SC D.4/4.7	HSS 8x8x1/2	0.0000	27 Minimum Snow Load	0.0	-0.0	8.1	0.0	0.0	0.0
							28 Balanced Snow Load	0.0	-0.0	6.6	0.0	0.0	0.0
							30 Drift Snow Load 1	0.0	-0.0	7.3	0.0	0.0	-0.0
SUP D.4/5	42' 0"	97' 4"	100' 0"	SC D.4/5	HSS 8x8x1/2	0.0000	1 Self weight - excluding slabs	0.0	-0.0	8.8	0.0	0.0	-0.0
							2 Slab self weight	0.0	-0.0	20.1	0.0	0.0	0.0
							3 Dead	0.0	-0.0	54.1	0.0	0.0	0.0
							4 Live	-0.0	-0.0	41.2	0.0	0.0	-0.0
							5 Roof Live	0.0	-0.0	10.3	0.0	0.0	0.0
							11 Wind +X', GCpi 0.18,-Cp	0.0	0.0	-8.9	0.0	0.0	-0.0
							12 Wind +X', GCpi 0.18,+Cp	0.0	0.0	-3.8	0.0	0.0	-0.0
							14 Wind +Y', GCpi 0.18,-Cp	0.0	0.0	-12.1	0.0	0.0	-0.0
							15 Wind +Y', GCpi 0.18,+Cp	0.0	0.0	-3.8	0.0	0.0	-0.0
							27 Minimum Snow Load	0.0	-0.0	10.9	0.0	0.0	0.0
							28 Balanced Snow Load	0.0	-0.0	8.9	0.0	0.0	0.0
							30 Drift Snow Load 1	0.0	-0.0	9.3	0.0	0.0	-0.0
SUP D.4/5.9	80' 0"	97' 4"	100' 0"	SC D.4/5.9	HSS 8x8x1/2	0.0000	1 Self weight - excluding slabs	0.0	0.0	8.7	0.0	0.0	-0.0
							2 Slab self weight	0.0	0.0	19.7	0.0	0.0	0.0
							3 Dead	0.0	0.0	52.9	0.0	0.0	0.0
							4 Live	-0.0	0.0	40.3	0.0	0.0	-0.0
							5 Roof Live	0.0	0.0	10.1	0.0	0.0	0.0
							11 Wind +X', GCpi 0.18,-Cp	0.0	0.0	-8.7	0.0	0.0	-0.0
							12 Wind +X', GCpi 0.18,+Cp	0.0	0.0	-3.7	0.0	0.0	-0.0
							14 Wind +Y', GCpi 0.18,-Cp	0.0	-0.0	-11.8	0.0	0.0	-0.0
							15 Wind +Y', GCpi 0.18,+Cp	0.0	-0.0	-3.7	0.0	0.0	-0.0
							27 Minimum Snow Load	0.0	0.0	10.6	0.0	0.0	0.0
							28 Balanced Snow Load	0.0	0.0	8.6	0.0	0.0	0.0
							30 Drift Snow Load 1	0.0	0.0	11.2	0.0	0.0	-0.0