

Appendix H

Construction

Construction Workforce and Truck Projections

DAILY WORKFORCE PROJECTIONS

	2013			2014												2015												2016																			
	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16								
NORTH SITE																																															
Excavation and Foundation (Wheel Terminal Building and Observation Wheel)								26	54	60	52	54	64																																		
Wheel Terminal Building Construction													62	50	50	92	62	0	12	18	18	68	118	150	215	215	215	190	115	65	40	25	20														
Observation Wheel Installation													24	24	24	30	30	30	30	24	24	24	24	24	24	24	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30				
Parking Structure - Phase 0							34	40																																							
Parking Structure - Rail Road Easement South													14	26	26	20	8																														
Parking Structure - Rail Road Easement North																20	20	38	18	26	26																										
Parking Structure - Phase 1																							6	26	20	20	20	32	37	10	10																
Parking Structure - Phase 2																									20	20	20	20	20	20	38	26	6	48	30	36	56	55	40	51	45	30	75	45			
Parking Structure - Phase 3																									20	20	38	26	6	48	30	36	56	55	40	51	45	30	75	45	50						
Parking Structure - Phase 4																																															
General							1	1	3	3	3	6	6	6	6	6	8	8	9	9	9	9	9	6	6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
SOUTH SITE																																															
Site Grading		25	25	20	20	25	25	25																																							
Utilities				23	23	23	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
Concrete (Foundations)						30	38	38	65	65	65	65	65	65	65	70	70	70	70	70	70	70	45	45	45	45																					
Concrete (Structure)													42	42	70	70	70	70	70	70	70	45	45	45	45																						
Structural Steel									18	18	18	18	18	18	70	70	70	70	70	70	45	45	45	45																							
Carpentry																																															
Masonry																		8	8	14	14	12	12	12	22	22	22	22	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38		
Roofing																																															
Façade																																															
Finishes																																															
Elevators/Escalators									4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Plumbing							10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Electrical									8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
HVAC									8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
TOTAL DAILY WORKER AVERAGE (North Site):	0	0	0	0	0	0	35	67	57	63	55	60	146	106	106	168	128	76	69	77	77	101	157	206	285	289	307	282	192	127	86	67	82	69	175	129	112	155	99								
TOTAL DAILY WORKER AVERAGE (South Site):	0	25	25	43	43	78	93	93	117	125	113	103	121	121	82	86	102	132	146	156	208	160	135	187	187	142	142	189	189	164	164	167	151	141	129	68	26	25	0								
TOTAL DAILY WORKER AVERAGE (North Site + South Site):	0	25	25	43	43	78	128	160	174	188	168	163	267	227	188	254	230	208	215	233	285	261	292	393	472	431	449	471	381	291	250	234	233	210	304	197	138	180	99								

Daily Worker Average by Quarter

	2013				2014				2015				2016				Max
	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q				
North Site Only	0	0	33	59	119	124	74	155	294	200	78	124	122	294			
South Site Only	25	55	101	114	108	107	170	161	157	181	161	113	26	181			
North Site + South Site	25	55	134	173	227	231	244	315	451	381	239	237	139	451			

DAILY TRUCK PROJECTIONS

	2013			2014												2015												2016														
	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16			
NORTH SITE																																										
Concrete Pump Truck																																										
Concrete Trucks							1	1		1	4	8	12	10	6	1	1	1						1	1	1	4							1	1	2	2		1	1		
Delivery Trucks: Stake Body or Box							1	2	2	3	3	3	4	4	4	4	6	7	8	11	11	10	10	15	15	15	11															
Trucks: Tractor Trailer							1	1	2	2	2	2	4	5	5	5	5	6	5	5	4	8	3	3	5	5	5	5	5	5	5	4	4	3	3	3	3	3	3	2	2	
Dump Trucks								1	12	12	16	6	6	6																												
Fuel Trucks							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
SOUTH SITE																																										
Excavation		12	12	12	12	12																																				
Foundation					5	5	12	12	10	10	10	10	10	10	8	8	10	10	10	10	10	10	10	10																		
Concrete superstructure																																										
Steel Superstructure								4	4	4	4																															
MEP's																																										
Interior Finishes																																										
Roofing																																										
Mobilization		3	3																																							
TOTAL DAILY TRUCK AVERAGE (North Site):	0	0	0	0	0	0	4	6	17	19	26	20	28	27	17	17	27	18	14	17	16	19	14	24	28	25	22	17	16	13	13	13	13	13	12	19	15	26	15	6		
TOTAL DAILY TRUCK AVERAGE (South Site):	0	15	15	12	17	17	12	16	14	14	14	10	10	18	8	8	10	15	15	15	20	20	15	19	19	9	9	9	8	8	8	8	8	10	8	7	1	1	1	0		
TOTAL DAILY TRUCK AVERAGE (North + South Site):	0	15	15	12	17	17	16	22	31	33	40	30	38	45	25	25	37	33	29	32	36	39	29	43	47	34	31	26	24	21	21	21	21	23	20	26	16	27	16	6		

Daily Worker Average by Quarter

	2013				2014				2015				2016					
	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	
North Site Only	0	0	9	22	24	21	16	19	25	15	13	15	16	25				
South Site Only	15	15	14	13	12	11	17	18	12	8	9	5	1	18				
North Site + South Site	15	15	23	34	36	32	32	37	37	24	22	21	16	37				

Natural Resources

Construction References

NATURAL RESOURCES

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