



SPNL PDWS 3-10-20

Gantt Chart - All Tasks

Status Date: Mon 3/9/20

ID #	Task Name	Start	Finish	Duration	Resource Names	Notes	Timeline															
							2020				2021				2022				2023			
							Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
0	SPNL PDWS 3-10-20	Mon 5/6/19	Wed 2/1/23	966d			[Red bar spanning from Q1 2020 to Q1 2023]															
1	1 Site Investigations	Mon 6/24/19	Tue 7/7/20	264d			[Green bar from Q2 2020 to Q3 2020]															
2	1.1 Site Surveys	Mon 7/22/19	Fri 9/6/19	34d	Moffat & Nichol		[Blue bar from Q2 2020 to Q3 2020]															
3	1.2 Building Hazardous Material Studies and Report	Mon 7/29/19	Thu 2/20/20	7.2mo	Moffat & Nichol		[Blue bar from Q2 2020 to Q3 2020]															
4	1.3 Bathymetric Survey and Report	Mon 6/24/19	Mon 8/26/19	45d	Moffat & Nichol		[Blue bar from Q2 2020 to Q3 2020]															
5	1.4 Benthic Survey and Report	Mon 7/22/19	Fri 9/27/19	49d	AECOM		[Blue bar from Q2 2020 to Q3 2020]															
6	1.5 Site Chemical Composition Soils Analysis	Mon 2/17/20	Fri 4/24/20	10w	AECOM		[Yellow bar from Q1 2020 to Q2 2020]															
7	1.6 Geotechnical Borings & Tests	Mon 7/8/19	Tue 7/7/20	262d	Moffat & Nichol		[Green bar from Q2 2020 to Q3 2020]															
8	1.6.1 Access to NECR Site	Mon 7/8/19	Fri 11/1/19	84d	CT Port Authority, Moffat & Nichol		[Blue bar from Q2 2020 to Q3 2020]															
9	1.6.2 Geotechnical Borings & Tests	Mon 7/8/19	Tue 11/26/19	100.65d	Moffat & Nichol		[Blue bar from Q2 2020 to Q3 2020]															
10	1.6.3 Geotechnical Report	Mon 9/2/19	Wed 11/27/19	62d	Moffat & Nichol		[Blue bar from Q2 2020 to Q3 2020]															
11	1.6.4 State Pier geotech and reports	Mon 2/24/20	Tue 7/7/20	95d	Moffat & Nichol	Includes boring campaign -Includes chemical soil sampling in State pier and dredge area	[Green bar from Q1 2020 to Q3 2020]															
12	1.6.4.1 Geotech/Drilling Campaign	Mon 3/2/20	Fri 4/10/20	1.5mo	Moffat & Nichol	This includes CPT's for jack up's this could potentially be split and CPT's performed at a later date	[Blue bar from Q1 2020 to Q2 2020]															
13	1.6.4.2 Boring Soils Sampling Program and Report	Mon 2/24/20	Tue 4/21/20	2mo	AECOM, Moffat & Nichol	This drives JPA update/submittal	[Yellow bar from Q1 2020 to Q2 2020]															
14	1.6.4.3 Geotech Report Update	Mon 4/13/20	Fri 5/8/20	1mo	Moffat & Nichol	Geotech report split for pier design and jack up design	[Yellow bar from Q2 2020 to Q3 2020]															
15	1.6.4.4 Stone Column Design	Mon 5/11/20	Tue 7/7/20	2mo	Moffat & Nichol		[Blue bar from Q2 2020 to Q3 2020]															
16	2 Permitting	Mon 5/6/19	Fri 12/2/22	935d	AECOM, CT Port Authority, Moffat & Nichol		[Green bar from Q1 2020 to Q1 2023]															
17	2.1 Phase 1 Permits	Mon 7/1/19	Wed 6/24/20	251d	AECOM, Moffat & Nichol		[Green bar from Q2 2020 to Q3 2020]															



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18	2.1.1 Certificate of Permission (COP) -CTDEEP	Mon 7/1/19	Wed 10/2/19	66d																		
19	2.1.1.1 COP Application Development	Mon 7/1/19	Thu 9/5/19	1.9mo	Moffat & Nichol,AECOM																	
20	2.1.1.2 COP Application Submitted	Fri 9/6/19	Fri 9/13/19	0w	AECOM,Moffat & Nichol																	
21	2.1.1.3 COP Evaluation Period	Wed 10/2/19	Wed 10/2/19	0w	CTDEEP																	
22	2.1.2 Construction General Storm Water Permit (CGSWP)	Wed 9/18/19	Tue 6/23/20	195d																		
23	2.1.2.1 CGSWP Application Development	Wed 9/18/19	Tue 11/12/19	2mo	AECOM,Moffat & Nichol																	
24	2.1.2.2 CGSWP - Application Submitted	Wed 11/13/19	Wed 11/13/19	1d	Moffat & Nichol,AECOM																	
25	2.1.2.3 CGSWP Update	Tue 2/4/20	Mon 4/27/20	3mo	Moffat & Nichol																	
26	2.1.2.4 CGSWP -60 day CTDEEP Review/Public Comment	Tue 4/28/20	Tue 6/23/20	2mo	CTDEEP																	
27	2.1.3 Phase 1 permits issued	Wed 6/24/20	Wed 6/24/20	1d	CTDEEP																	
28	2.2 Phase 2 Permits	Mon 5/6/19	Fri 12/2/22	923d																		
29	2.2.1 Joint Permit Application (JPA) CTDEEP and USACE	Tue 5/7/19	Wed 12/23/20	416d	CT Port Authority																	
30	2.2.1.1 JPA Initial Submission	Tue 5/7/19	Wed 5/8/19	2d	AECOM																	
31	2.2.1.2 State Pier Permitting Update	Mon 1/20/20	Thu 4/30/20	2w	AECOM,Moffat & Nichol	Added link to site soils analysis																
32	2.2.1.3 JPA Submittal Review (includes NOI)	Fri 5/1/20	Thu 5/21/20	15d	CTDEEP	CT Deep review period prior to public notice																
33	2.2.1.4 JPA Public Notice Period -30 days	Fri 5/22/20	Fri 6/19/20	4w	CTDEEP,USACE																	
34	2.2.1.5 JPA Review and Evaluation -DEEP and USACE	Fri 5/22/20	Wed 12/9/20	7mo	CTDEEP,USACE																	
35	2.2.1.6 Reconcile Permitting Agency Comments	Thu 12/10/20	Wed 12/23/20	2w	AECOM																	



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							Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1												
36	2.2.2 Deauthorization Article 404	Mon 5/6/19	Mon 6/8/20	278d	CT Port Authority		[Gantt bar from Q1 2020 to Q2 2020]																												
37	2.2.2.1 Deauthorization package complete	Mon 5/6/19	Mon 6/10/19	25d	AECOM		[Gantt bar from Q1 2020 to Q1 2020]																												
38	2.2.2.2 Legislative Process	Mon 7/15/19	Fri 5/15/20	10.75mo	CT Port Authority		[Gantt bar from Q3 2020 to Q4 2020]																												
39	2.2.2.3 Deauthorization Received	Mon 5/18/20	Mon 6/8/20	15d	CT Port Authority		[Gantt bar from Q2 2020 to Q2 2020]																												
40	2.2.3 Phase 2 Permits Issued	Thu 12/24/20	Thu 12/24/20	1d	CTDEEP,USACE	Note this is not tied to issuance of bid package but is tied to contractor NTP	[Gantt bar at end of Q4 2020]																												
41	2.2.4 Local and Construction Related Permits	Mon 5/6/19	Mon 5/6/19	1d			[Gantt bar at start of Q1 2020]																												
42	2.2.5 Local Building Permits	Wed 7/29/20	Tue 9/22/20	2mo	Contractor	Permit applications will be submitted as early as possible,	[Gantt bar from Q3 2020 to Q4 2020]																												
43	2.2.6 Water and Sewer Interconnection Permits	Wed 7/29/20	Tue 9/22/20	2mo	Contractor	M&N working with City	[Gantt bar from Q3 2020 to Q4 2020]																												
44	2.2.7 Electrical Interconnection Permits	Wed 7/29/20	Tue 9/22/20	2mo	Contractor	M&N working with Eversource	[Gantt bar from Q3 2020 to Q4 2020]																												
45	2.2.8 FAA Notification Facility operations	Mon 7/18/22	Fri 12/2/22	5mo	Operator	FAA requires minimum 60 day notice prior to mobilization of cranes on site. Due to scope FAA requested earlier notification	[Gantt bar from Q1 2022 to Q4 2022]																												
46	3 Facility Design	Fri 8/2/19	Fri 1/8/21	366d	Moffat & Nichol		[Gantt bar from Q3 2020 to Q4 2020]																												
47	3.1 Detail Design Original Scope Items	Fri 8/2/19	Thu 5/7/20	195d	Moffat & Nichol		[Gantt bar from Q3 2020 to Q4 2020]																												
48	3.2 Notice to Proceed on State Pier Heavy Lift Berth	Mon 1/13/20	Mon 1/13/20	1d	CT Port Authority		[Gantt bar at start of Q1 2020]																												
49	3.3 Concept to 30% Design State Pier East Berth	Fri 1/24/20	Mon 6/1/20	3mo	Moffat & Nichol		[Gantt bar from Q1 2020 to Q2 2020]																												
50	3.4 State Pier upgrade project 60% design	Tue 6/2/20	Tue 7/28/20	8w	Moffat & Nichol		[Gantt bar from Q2 2020 to Q2 2020]																												
51	3.5 Facility 90% design	Wed 7/29/20	Tue 10/6/20	2.5mo	Moffat & Nichol		[Gantt bar from Q3 2020 to Q4 2020]																												
52	3.6 IFB Drawings	Wed 10/28/20	Tue 11/10/20	10d	Moffat & Nichol		[Gantt bar at end of Q4 2020]																												
53	3.7 IFC Drawings	Mon 12/28/20	Fri 1/8/21	10d	Moffat & Nichol		[Gantt bar at end of Q4 2020]																												



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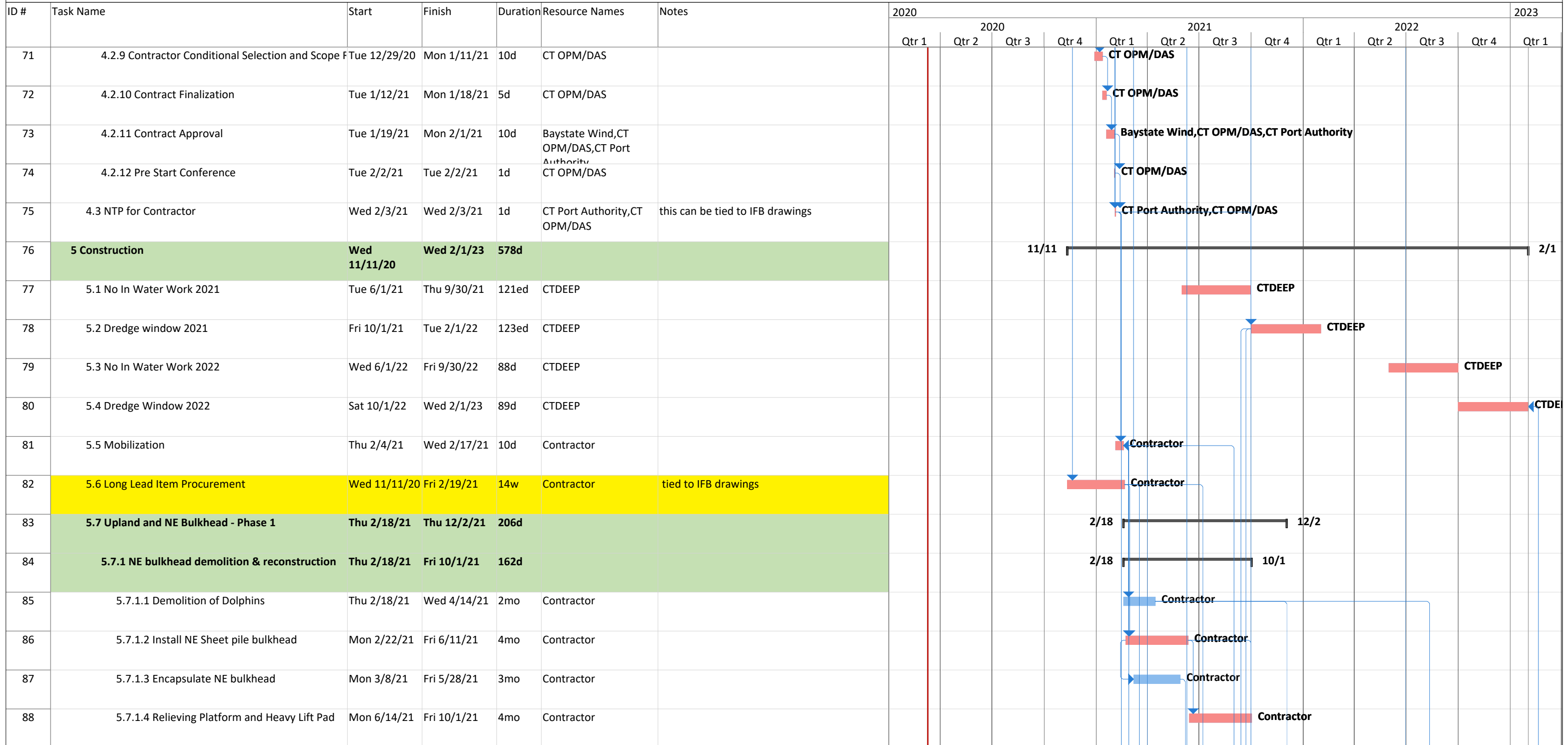
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							2020				2021				2022				2023			
							Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1			
54	4 Contracting	Thu 9/26/19	Wed 2/3/21	346d	CT Port Authority		[Gantt bar from Q1 2020 to Q4 2020]															
55	4.1 Independent Review	Mon 12/9/19	Tue 11/3/20	233d			[Gantt bar from Q4 2019 to Q3 2020]															
56	4.1.1 Cost Estimate Reconciliation and review of initial design.	Mon 12/9/19	Mon 3/9/20	6w	CT OPM/DAS	Reflects project with out East Berth change	[Task bar from Q4 2019 to Q1 2020]															
57	4.1.2 3rd Party Review of 60% Documents	Wed 7/29/20	Tue 8/11/20	10d	CT OPM/DAS		[Task bar in Q3 2020]															
58	4.1.3 Reconcile estimate and 60% document review Comments	Wed 8/12/20	Tue 8/18/20	5d	CT OPM/DAS		[Task bar in Q3 2020]															
59	4.1.4 3rd Party Review of 90% documents	Wed 10/7/20	Tue 10/20/20	2w	CT OPM/DAS		[Task bar in Q4 2020]															
60	4.1.5 90% Cost Estimate	Wed 10/7/20	Tue 10/20/20	10d	CT OPM/DAS		[Task bar in Q4 2020]															
61	4.1.6 Reconcile 90% Review Comments	Wed 10/21/20	Tue 11/3/20	2w	CT OPM/DAS,Moffat & Nichol		[Task bar in Q4 2020]															
62	4.2 Project Bid Package	Thu 9/26/19	Tue 2/2/21	354d	CT Port Authority		[Gantt bar from Q1 2020 to Q4 2020]															
63	4.2.1 State of CT Determine Contracting Strategy	Thu 9/26/19	Wed 10/23/19	20d	Baystate Wind,CT Port Authority,Moffat & Nichol	The assumption is a design, bid, build	[Task bar from Q1 2020 to Q1 2020]															
64	4.2.2 Contractor Prequalification Process Including RFI and Statement of Qualifications - Bid Package	Tue 2/4/20	Tue 5/26/20	4mo	CT Port Authority,CT OPM/DAS		[Task bar from Q1 2020 to Q2 2020]															
65	4.2.3 Construction Bid Package Development	Mon 2/3/20	Fri 9/18/20	7mo	CT OPM/DAS,Moffat & Nichol,AECOM		[Task bar from Q1 2020 to Q4 2020]															
66	4.2.4 Assemble Final Bid Documents	Wed 11/11/20	Tue 11/17/20	5d	AECOM,CT OPM/DAS,Moffat & Nichol		[Task bar in Q4 2020]															
67	4.2.5 Construction Bid Period	Wed 11/18/20	Thu 12/24/20	5w	CT OPM/DAS		[Task bar in Q4 2020]															
68	4.2.6 Pre Bid Conference	Fri 12/4/20	Fri 12/4/20	1d	CT OPM/DAS		[Task bar in Q4 2020]															
69	4.2.7 RFI response and Bid Addenda Issue	Fri 12/4/20	Thu 12/10/20	5d	CT OPM/DAS,Moffat & Nichol		[Task bar in Q4 2020]															
70	4.2.8 Bid Opening	Mon 12/28/20	Mon 12/28/20	1d	CT OPM/DAS		[Task bar in Q4 2020]															



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89	5.7.1.5 Install marine furniture NE Bulkhead	Mon 5/31/21	Fri 6/25/21	1mo	Contractor																						
90	5.7.2 Dredge NE bulkhead and jack up pockets 136,000 CY	Fri 10/1/21	Thu 12/2/21	9w	Contractor	Revisit dredging and how it is sequenced, dredging will occur as one big effort																					
91	5.7.3 Uplands	Thu 2/18/21	Wed 11/24/21	200d																							
92	5.7.3.1 Demolish buildings -	Thu 2/18/21	Wed 5/12/21	3mo	Contractor																						
93	5.7.3.2 Site demolition (in ground demo)	Thu 2/18/21	Wed 6/9/21	4mo	Contractor																						
94	5.7.3.3 Rough Grade site	Thu 5/13/21	Wed 6/9/21	1mo	Contractor																						
95	5.7.3.4 Storm Water Collection treatment and drainage system	Thu 6/10/21	Wed 8/4/21	2mo	Contractor																						
96	5.7.3.5 Utility and Security Install	Thu 6/10/21	Wed 9/1/21	3mo	Contractor																						
97	5.7.3.6 Electrical distribution & area lights	Thu 6/10/21	Wed 9/1/21	3mo	Contractor																						
98	5.7.3.7 Place & grade surface treatment Uplands	Thu 9/2/21	Wed 11/10/21	2.5mo	Contractor																						
99	5.7.3.8 Shore Power	Thu 9/2/21	Wed 11/24/21	3mo	Contractor																						
100	5.8 State Pier/CVRR Pier/Central Wharf - Phase 2	Thu 2/18/21	Thu 8/11/22	386d																							
101	5.8.1 CVRR Pier	Thu 2/18/21	Wed 9/29/21	160d																							
102	5.8.1.1 CVRR Pier Test Pits and analysis	Thu 2/18/21	Wed 3/31/21	30d	Contractor																						
103	5.8.1.2 Demo CVRR pier east corner	Thu 2/18/21	Wed 3/17/21	4w	Contractor	Required for tie in of King Pile Bulkhead																					
104	5.8.1.3 CVRR Pier Corner Sheeting	Thu 3/18/21	Wed 4/28/21	6w	Contractor	This is sheeting for the West end of CVRR pier is this still required																					
105	5.8.1.4 CVRR Sheet Pile Reinforcing Bulkhead	Thu 4/1/21	Wed 5/12/21	6w	Contractor	Expect this will still be completed to stabilize CVRR																					



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106	5.8.1.5 CVRR Soil Improvements	Thu 5/13/21	Wed 7/7/21	8w	Contractor																	
107	5.8.1.6 CVRR raise deck elevation	Thu 7/8/21	Wed 7/28/21	3w	Contractor																	
108	5.8.1.7 CVRR Utilities and Storm Water System	Thu 7/8/21	Wed 9/29/21	3mo	Contractor																	
109	5.8.1.8 CVRR Place & compact fill	Thu 7/29/21	Wed 8/25/21	4w	Contractor																	
110	5.8.2 Reinforcement of State Pier	Thu 2/18/21	Wed 8/10/22	385d							2/18										8/10	
111	5.8.2.1 Remove State Pier Deck and Piling	Thu 2/18/21	Wed 6/9/21	4mo	Contractor	Remove deck of heavy lift area of state pier to allow for removal of piling installation of tie backs and install of sheet pile																
112	5.8.2.2 Install State Pier Turbidity Curtain	Thu 2/18/21	Wed 2/24/21	1w	Contractor	Assumed to be installed to allow for removal of rip rap and pile																
113	5.8.2.3 Install State pier tie back system	Thu 6/10/21	Wed 9/1/21	3mo	Contractor																	
114	5.8.2.4 Remove rip rap and install sheetpile	Thu 8/5/21	Wed 1/12/22	23w	Contractor	This is driving dredge for east berth pockets an																
115	5.8.2.5 Encapsulate State Pier bulkhead	Thu 9/2/21	Wed 12/22/21	4mo	Contractor																	
116	5.8.2.6 Install Heavy Lift Platform	Thu 1/13/22	Wed 6/1/22	5mo	Contractor																	
117	5.8.2.7 Install state pier utilities	Thu 6/2/22	Wed 7/13/22	1.5mo	Contractor																	
118	5.8.2.8 Place and grade surface treatment	Thu 7/14/22	Wed 8/10/22	1mo	Contractor																	
119	5.8.2.9 Install State Pier Marine Furniture	Thu 12/23/21	Wed 1/19/22	1mo	Contractor																	
120	5.8.3 Central Wharf	Thu 2/18/21	Thu 8/11/22	386d							2/18										8/11	
121	5.8.3.1 Install Turbidity Curtain CVRR to State Pier	Thu 2/18/21	Wed 2/24/21	5d	Contractor																	
122	5.8.3.2 State Pier demo west apron	Thu 2/25/21	Wed 5/19/21	60d	Contractor																	
123	5.8.3.3 Central Wharf anchor wall berm	Thu 5/13/21	Wed 7/7/21	2mo	Contractor																	



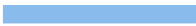



















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124	5.8.3.4 Install Kingpile wall	Thu 7/8/21	Wed 9/29/21	3mo	Contractor																								
125	5.8.3.5 Encapsulate bulkhead	Thu 9/30/21	Wed 11/10/21	6w	Contractor																								
126	5.8.3.6 Fill Central Wharf Area	Thu 9/30/21	Thu 8/11/22	226d	Contractor																								
127	5.8.3.6.1 Place Stockpiled /Imported Fill	Thu 9/30/21	Wed 3/16/22	6mo	Contractor																								
128	5.8.3.6.2 Dredge State Pier Manuvering Basin	Fri 12/3/21	Thu 1/27/22	2mo	Contractor	Revisit dredging and how it is sequenced, dredging will occur as one big effort																							
129	5.8.3.6.3 Dredge East Berth Jack up pockets	Thu 1/13/22	Wed 1/26/22	2w	Contractor	Driven by East Berth Design/toe wall and rate of dredging and material placement rate - need to reflect updated quantities																							
130	5.8.3.6.4 Place Dredge Material in Central Wharf	Fri 10/8/21	Thu 1/27/22	4mo	Contractor																								
131	5.8.3.6.5 Install Stone Columns	Fri 1/28/22	Thu 5/19/22	4mo																									
132	5.8.3.6.6 Complete fill of Central wharf	Fri 5/20/22	Thu 7/14/22	2mo																									
133	5.8.3.6.7 Place and grade surface treatment Central Wharf	Fri 7/15/22	Thu 8/11/22	4w																									
134	5.9 Temporary offices	Wed 9/1/21	Tue 5/10/22	180d																									
135	5.9.1 Utility install	Wed 9/1/21	Tue 1/18/22	5mo	Operator																								
136	5.9.2 Site Prep	Wed 1/19/22	Tue 3/15/22	2mo	Operator																								
137	5.9.3 Office install	Wed 3/16/22	Tue 5/10/22	2mo																									
138	5.10 Phase 2 Complete	Fri 8/12/22	Fri 8/12/22	1d																									



Task		Inactive Task		Manual Summary Rollup		External Milestone		Manual Progress	
Split		Inactive Milestone		Manual Summary		Deadline			
Milestone		Inactive Summary		Start-only		Critical			
Summary		Manual Task		Finish-only		Critical Split			
Project Summary		Duration-only		External Tasks		Progress	