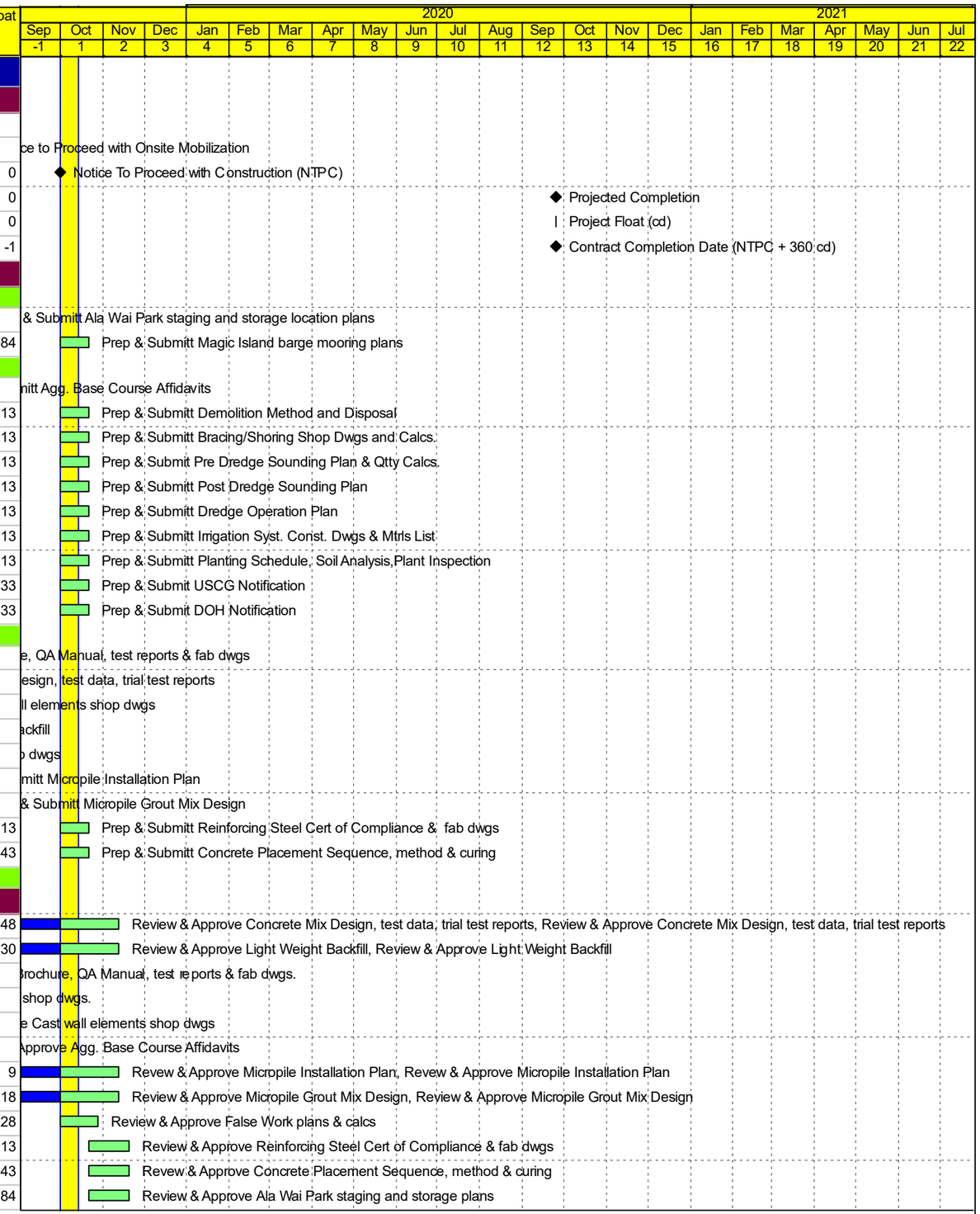
Activity ID	Activity Description	Orig Dur	Rem Dur	Phys % Compl	Start	Finish	Total Float
Ala Wai Canal Dredging & Improvements							
Milestones & Critical Dates							
18-923-10000	Contract Award (Proceed with Preconstruction Activities)	0	0	100%	17-Dec-18 A		
18-923-10730	Notice to Proceed with Onsite Mobilization	0	0	100%	05-Aug-19 A		
18-923-10010	Notice To Proceed with Construction (NTPC)	0	0	0%	01-Oct-19*		0
18-923-19000	Projected Completion	0	0	0%		25-Sep-20	0
18-923-19900	Project Float (cd)	0	0	0%	25-Sep-20	25-Sep-20	0
18-923-19910	Contract Completion Date (NTPC + 360 cd)	0	0	0%		25-Sep-20*	-1
Quality Management (QM) Activities							
General Requirements							
18-923-50190	Prep & Submitt Ala Wai Park staging and storage location plans	15	0	100%	28-Jun-19 A	02-Aug-19 A	
18-923-50000	Prep & Submitt Magic Island barge mooring plans	15	15	0%	01-Oct-19	21-Oct-19	84
Site Work							
18-923-50030	Prep & Submitt Agg. Base Course Affidavits	15	0	100%	17-Jun-19 A	01-Jul-19 A	
18-923-50010	Prep & Submitt Demolition Method and Disposal	15	15	0%	01-Oct-19	21-Oct-19	213
18-923-50020	Prep & Submitt Bracing/Shoring Shop Dwgs and Calcs.	15	15	0%	01-Oct-19	21-Oct-19	213
18-923-50040	Prep & Submit Pre Dredge Sounding Plan & Qtty Calcs.	15	15	0%	01-Oct-19	21-Oct-19	213
18-923-50070	Prep & Submitt Post Dredge Sounding Plan	15	15	0%	01-Oct-19	21-Oct-19	213
18-923-50080	Prep & Submitt Dredge Operation Plan	15	15	0%	01-Oct-19	21-Oct-19	213
18-923-50090	Prep & Submitt Irrigation Syst. Const. Dwgs & Mtrls List	15	15	0%	01-Oct-19	21-Oct-19	213
18-923-50100	Prep & Submitt Planting Schedule, Soil Analysis,Plant Inspection	15	15	0%	01-Oct-19	21-Oct-19	213
18-923-50050	Prep & Submit USCG Notification	15	15	0%	01-Oct-19	21-Oct-19	233
18-923-50060	Prep & Submit DOH Notification	15	15	0%	01-Oct-19	21-Oct-19	233
Concrete							
18-923-50120	Prep & Submitt GFRP Brochure, QA Manual, test reports & fab dwgs	15	0	100%	28-Mar-19 A	12-Apr-19 A	
18-923-50150	Prep & Submit Concrete Mix Design, test data, trial test reports	15	0	100%	01-Apr-19 A	11-Apr-19 A	
18-923-50200	Prep & Submitt Pre- cast wall elements shop dwgs	15	0	100%	01-Apr-19 A	23-Apr-19 A	
18-923-50130	Prep & Submit Light Weight Backfill	15	0	100%	02-Apr-19 A	12-Apr-19 A	
18-923-50160	Prep & Submit Micropile shop dwgs	15	0	100%	08-Apr-19 A	19-Apr-19 A	
18-923-50180	Prep & Submitt Micropile Installation Plan	15	0	100%	21-Jun-19 A	05-Jul-19 A	
18-923-50170	Prep & Submitt Micropile Grout Mix Design	15	0	100%	17-Jul-19 A	31-Jul-19 A	
18-923-50110	Prep & Submitt Reinforcing Steel Cert of Compliance & fab dwgs	15	15	0%	01-Oct-19	21-Oct-19	13
18-923-50140	Prep & Submitt Concrete Placement Sequence, method & curing	15	15	0%	01-Oct-19	21-Oct-19	43
Masonry							
DLNR Activities							
18-923-40150	Review & Approve Concrete Mix Design, test data, trial test reports	20	30	0%	11-Apr-19 A	12-Nov-19	48
18-923-40200	Review & Approve Light Weight Backfill	20	30	0%	12-Apr-19 A	12-Nov-19	30
18-923-40120	Review & Approve GFRP Brochure, QA Manual, test reports & fab dw	20	0	100%	12-Apr-19 A	29-Apr-19 A	
18-923-40160	Review & Approve Micropile shop dwgs.	20	0	100%	19-Apr-19 A	23-Apr-19 A	
18-923-40190	Review & Approve Pre Cast wall elements shop dwgs	20	0	100%	23-Apr-19 A	23-May-19 A	
18-923-40060	Review & Approve Agg. Base Course Affidavits	20	0	100%	01-Jul-19 A	08-Jul-19 A	
18-923-40180	Revew & Approve Micropile Installation Plan	20	30	0%	05-Jul-19 A	12-Nov-19	9
18-923-40170	Review & Approve Micropile Grout Mix Design	20	30	0%	31-Jul-19 A	12-Nov-19	218
18-923-40130	Review & Approve False Work plans & calcs	20	20	0%	01-Oct-19	28-Oct-19	228
18-923-40110	Review & Approve Reinforcing Steel Cert of Compliance & fab dwgs	20	20	0%	22-Oct-19	19-Nov-19	13
18-923-40140	Revew & Approve Concrete Placement Sequence, method & curing	20	20	0%	22-Oct-19	19-Nov-19	43
18-923-40010	Review & Approve Ala Wai Park staging and storage plans	20	20	0%	22-Oct-19	19-Nov-19	84



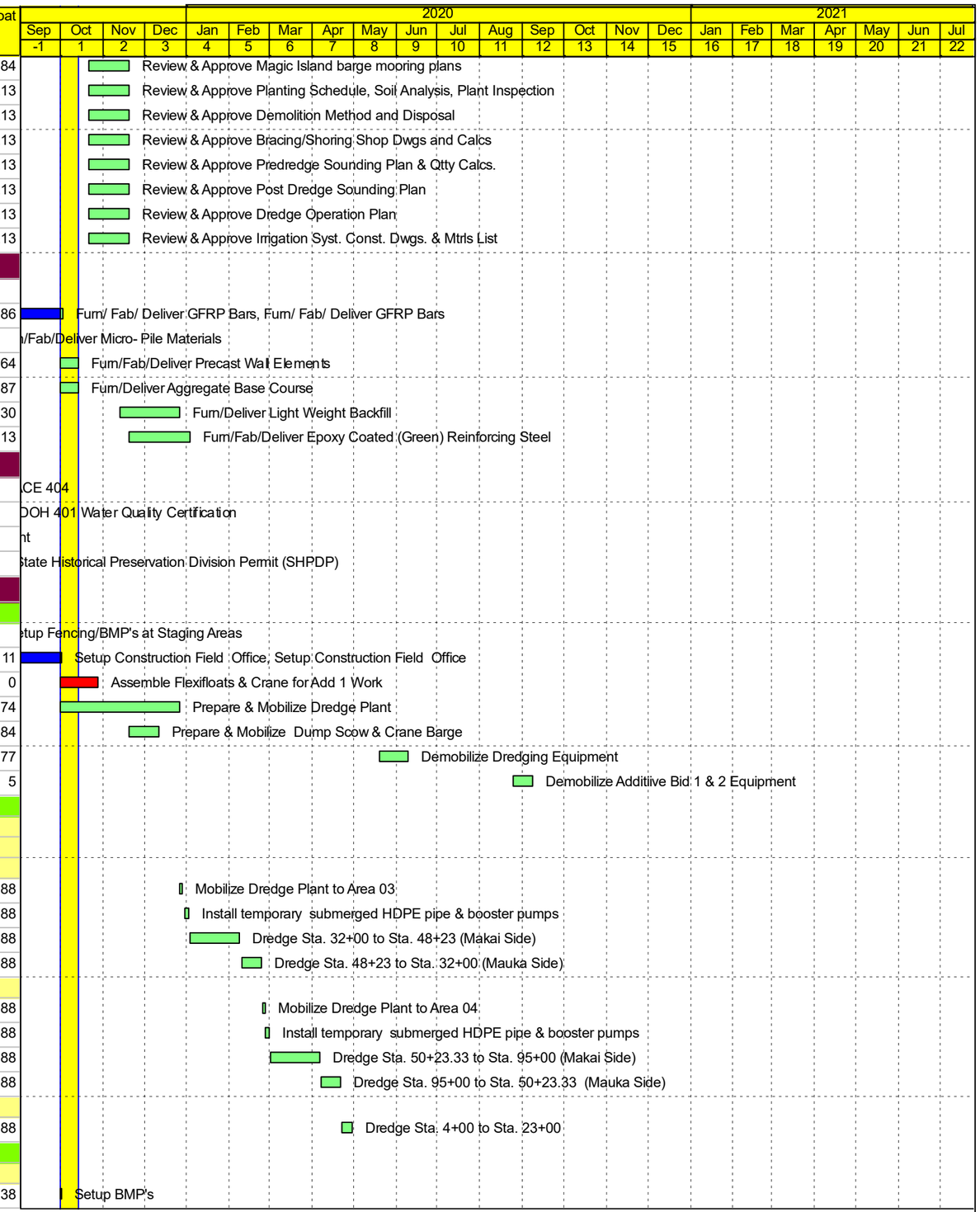
Level of Effort
Milestone
Actual Level of Effort
Critical Remaining Work
Remaining Work
Actual Work

HAWAII HARBORS CONSTRUCTORS JV

Ala Wai Canal Dredging Improvements

Date	Revision	Checked	Approved
13-Sep-19	Basline Construction Schedule for Sub...	ccu	ejk

Activity ID	Activity Description	Orig Dur	Rem Dur	Phys % Compl	Start	Finish	Total Float
18-923-40020	Review & Approve Magic Island barge mooring plans	20	20	0%	22-Oct-19	19-Nov-19	84
18-923-40030	Review & Approve Planting Schedule, Soil Analysis, Plant Inspection	20	20	0%	22-Oct-19	19-Nov-19	213
18-923-40040	Review & Approve Demolition Method and Disposal	20	20	0%	22-Oct-19	19-Nov-19	213
18-923-40050	Review & Approve Bracing/Shoring Shop Dwgs and Calcs	20	20	0%	22-Oct-19	19-Nov-19	213
18-923-40070	Review & Approve Predredge Sounding Plan & Qtty Calcs.	20	20	0%	22-Oct-19	19-Nov-19	213
18-923-40080	Review & Approve Post Dredge Sounding Plan	20	20	0%	22-Oct-19	19-Nov-19	213
18-923-40090	Review & Approve Dredge Operation Plan	20	20	0%	22-Oct-19	19-Nov-19	213
18-923-40100	Review & Approve Irrigation Syst. Const. Dwgs. & Mtrls List	20	20	0%	22-Oct-19	19-Nov-19	213
Procurement Activities							
18-923-30010	Furnish Performance & Payment Bonds	10	0	100%	17-Dec-18 A	17-Dec-18 A	
18-923-30020	Furn/ Fab/ Deliver GFRP Bars	30	2	0%	29-Apr-19 A	02-Oct-19	86
18-923-30000	Furn/Fab/Deliver Micro- Pile Materials	45	0	100%	29-Apr-19 A	07-Aug-19 A	
18-923-30030	Furn/Fab/Deliver Precast Wall Elements	10	10	0%	01-Oct-19	14-Oct-19	64
18-923-30050	Furn/Deliver Aggregate Base Course	10	10	0%	01-Oct-19	14-Oct-19	87
18-923-30060	Furn/Deliver Light Weight Backfill	30	30	0%	13-Nov-19	26-Dec-19	30
18-923-30040	Furn/Fab/Deliver Epoxy Coated (Green) Reinforcing Steel	30	30	0%	20-Nov-19	03-Jan-20	13
Permits							
18-923-19920	USACE 404	250	0	100%	16-May-18 A	05-Aug-19 A	
18-923-19930	DOH 401 Water Quality Certification	250	0	100%	16-May-18 A	23-Aug-19 A	
18-923-19940	NDPES Notice of Intent	30	0	100%	13-May-19 A	17-May-19 A	
18-923-19950	State Historical Preservation Division Permit (SHPDP)	15	0	100%	15-Jul-19 A	20-Aug-19 A	
Construction Activities							
Mobilization/Demobilization							
18-923-60200	Setup Fencing/BMP's at Staging Areas	7	0	100%	08-Aug-19 A	14-Aug-19 A	
18-923-60300	Setup Construction Field Office	5	1	0%	26-Aug-19 A	01-Oct-19	11
18-923-69130	Assemble Flexifloats & Crane for Add 1 Work	20	20	0%	01-Oct-19	28-Oct-19	0
18-923-69110	Prepare & Mobilize Dredge Plant	60	60	0%	01-Oct-19	26-Dec-19	74
18-923-69120	Prepare & Mobilize Dump Scow & Crane Barge	15	15	0%	20-Nov-19	11-Dec-19	84
18-923-69010	Demobilize Dredging Equipment	15	15	0%	20-May-20	09-Jun-20	77
18-923-69020	Demobilize Additiive Bid 1 & 2 Equipment	10	10	0%	25-Aug-20	08-Sep-20	5
Base Bid: Ala Wai Canal & Manoa - Palolo Canal Dredging							
Dredge Area 1 Kalakaua - Ala Moana (Sta. 18+00 to Sta. 0+00)							
Dredge Area 2 Kalakaua - McCully (Sta 18+00 to Sta 24+50)							
Dredge Area 3 McCully - HECO Easement (Sta 24+50 to Sta. 48+23.23)							
18-923-90130	Mobilize Dredge Plant to Area 03	2	2	0%	27-Dec-19	28-Dec-19	88
18-923-90140	Install temporary submerged HDPE pipe & booster pumps	3	3	0%	30-Dec-19	02-Jan-20	88
18-923-90160	Dredge Sta. 32+00 to Sta. 48+23 (Makai Side)	31	31	0%	03-Jan-20	08-Feb-20	88
18-923-90150	Dredge Sta. 48+23 to Sta. 32+00 (Mauka Side)	12	12	0%	10-Feb-20	24-Feb-20	88
Dredge Area 4 HECO Easement - Ainakea Way (Sta. 50+23.23 to Sta. 95+00)							
18-923-90170	Mobilize Dredge Plant to Area 04	2	2	0%	25-Feb-20	26-Feb-20	88
18-923-90180	Install temporary submerged HDPE pipe & booster pumps	3	3	0%	27-Feb-20	29-Feb-20	88
18-923-90190	Dredge Sta. 50+23.33 to Sta. 95+00 (Makai Side)	30	30	0%	02-Mar-20	06-Apr-20	88
18-923-90200	Dredge Sta. 95+00 to Sta. 50+23.33 (Mauka Side)	12	12	0%	07-Apr-20	21-Apr-20	88
Dredge Area 5 Manoa - Palolo Drainage Canal (Sta. 4+00 to Sta. 23+00)							
18-923-90210	Dredge Sta. 4+00 to Sta. 23+00	8	8	0%	22-Apr-20	30-Apr-20	88
Additive 1: Wall Reconstruction along Ala Wai Comm. Park							
Micropile Load Test							
18-923-10001	Setup BMP's	1	1	0%	01-Oct-19	01-Oct-19	38



Level of Effort
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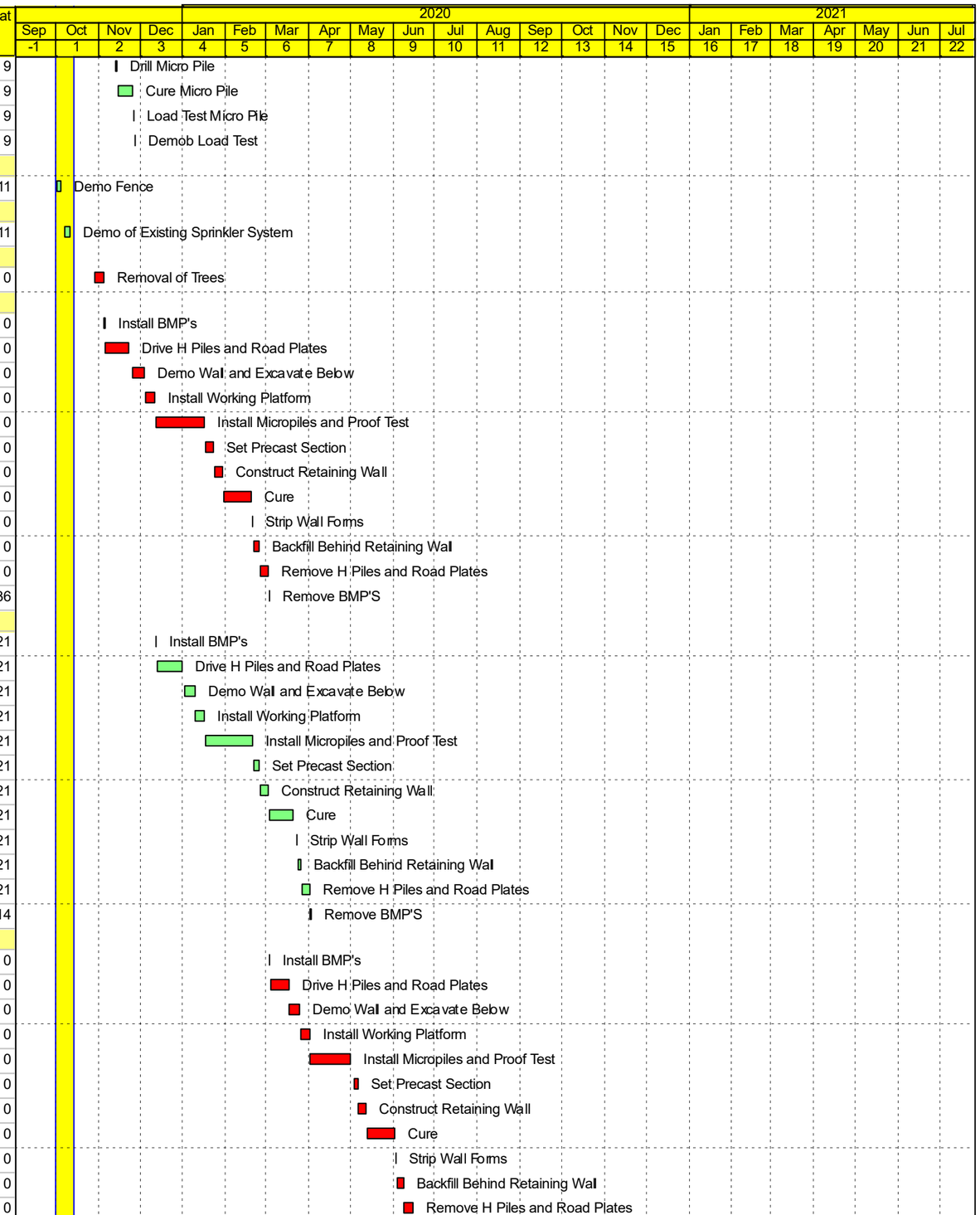
Actual Work

HAWAII HARBORS CONSTRUCTORS JV

Ala Wai Canal Dredging Improvements

Date	Revision	Checked	Approved
13-Sep-19	Basline Construction Schedule for Sub...	ccu	ejk

Activity ID	Activity Description	Orig Dur	Rem Dur	Phys % Compl	Start	Finish	Total Float
18-923-10011	Drill Micro Pile	2	2	0%	13-Nov-19	14-Nov-19	9
18-923-10020	Cure Micro Pile	7	7	0%	15-Nov-19	25-Nov-19	9
18-923-10030	Load Test Micro Pile	1	1	0%	26-Nov-19	26-Nov-19	9
18-923-10040	Demob Load Test	1	1	0%	27-Nov-19	27-Nov-19	9
Demo of Fence							
18-923-10060	Demo Fence	3	3	0%	02-Oct-19	04-Oct-19	11
Demo of Sprinkler System							
18-923-10070	Demo of Existing Sprinkler System	5	5	0%	07-Oct-19	11-Oct-19	11
Removal of Trees							
18-923-10050	Removal of Trees	5	5	0%	29-Oct-19	04-Nov-19	0
STA 7+27 to 5+80							
18-923-10120	Install BMP's	1	1	0%	05-Nov-19	05-Nov-19	0
18-923-10140	Drive H Piles and Road Plates	12	12	0%	06-Nov-19	22-Nov-19	0
18-923-10130	Demo Wall and Excavate Below	7	7	0%	25-Nov-19	04-Dec-19	0
18-923-10230	Install Working Platform	5	5	0%	05-Dec-19	11-Dec-19	0
18-923-10150	Install Micropiles and Proof Test	24	24	0%	12-Dec-19	16-Jan-20	0
18-923-10190	Set Precast Section	4	4	0%	17-Jan-20	23-Jan-20	0
18-923-10160	Construct Retaining Wall	4	4	0%	24-Jan-20	29-Jan-20	0
18-923-10200	Cure	14	14	0%	30-Jan-20	19-Feb-20	0
18-923-10210	Strip Wall Forms	1	1	0%	20-Feb-20	20-Feb-20	0
18-923-10170	Backfill Behind Retaining Wall	3	3	0%	21-Feb-20	25-Feb-20	0
18-923-10240	Remove H Piles and Road Plates	4	4	0%	26-Feb-20	02-Mar-20	0
18-923-10180	Remove BMP'S	1	1	0%	03-Mar-20	03-Mar-20	136
STA 5+80 to 4+20							
18-923-10250	Install BMP's	1	1	0%	12-Dec-19	12-Dec-19	21
18-923-10260	Drive H Piles and Road Plates	12	12	0%	13-Dec-19	31-Dec-19	21
18-923-10270	Demo Wall and Excavate Below	6	6	0%	02-Jan-20	09-Jan-20	21
18-923-10280	Install Working Platform	5	5	0%	10-Jan-20	16-Jan-20	21
18-923-10290	Install Micropiles and Proof Test	23	23	0%	17-Jan-20	20-Feb-20	21
18-923-10690	Set Precast Section	3	3	0%	21-Feb-20	25-Feb-20	21
	Construct Retaining Wall	4	4	0%	26-Feb-20	02-Mar-20	21
18-923-10310	Cure	14	14	0%	03-Mar-20	20-Mar-20	21
18-923-10320	Strip Wall Forms	1	1	0%	23-Mar-20	23-Mar-20	21
18-923-10330	Backfill Behind Retaining Wall	3	3	0%	24-Mar-20	26-Mar-20	21
18-923-10340	Remove H Piles and Road Plates	4	4	0%	27-Mar-20	01-Apr-20	21
18-923-10350	Remove BMP'S	1	1	0%	02-Apr-20	02-Apr-20	114
STA 4+20 to 2+60							
18-923-10360	Install BMP's	1	1	0%	03-Mar-20	03-Mar-20	0
18-923-10370	Drive H Piles and Road Plates	10	10	0%	04-Mar-20	17-Mar-20	0
18-923-10380	Demo Wall and Excavate Below	6	6	0%	18-Mar-20	25-Mar-20	0
18-923-10390	Install Working Platform	5	5	0%	26-Mar-20	01-Apr-20	0
18-923-10400	Install Micropiles and Proof Test	22	22	0%	02-Apr-20	01-May-20	0
18-923-10700	Set Precast Section	3	3	0%	04-May-20	06-May-20	0
18-923-10410	Construct Retaining Wall	4	4	0%	07-May-20	12-May-20	0
18-923-10420	Cure	14	14	0%	13-May-20	02-Jun-20	0
18-923-10430	Strip Wall Forms	1	1	0%	03-Jun-20	03-Jun-20	0
18-923-10440	Backfill Behind Retaining Wall	3	3	0%	04-Jun-20	08-Jun-20	0
18-923-10450	Remove H Piles and Road Plates	4	4	0%	09-Jun-20	15-Jun-20	0



Level of Effort
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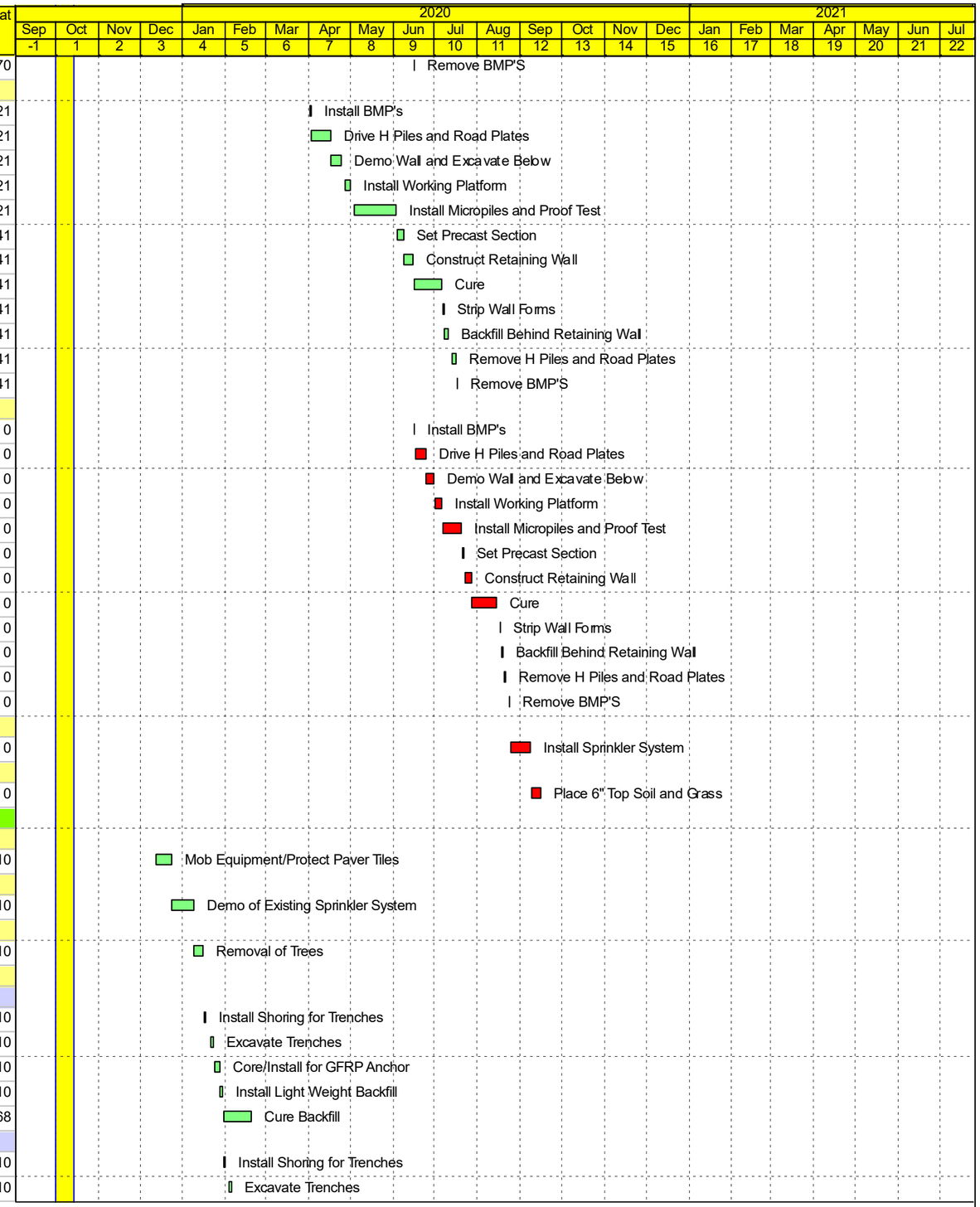
Actual Work

HAWAII HARBORS CONSTRUCTORS JV

Ala Wai Canal Dredging Improvements

Date	Revision	Checked	Approved
13-Sep-19	Basline Construction Schedule for Sub...	ccu	ejk

Activity ID	Activity Description	Orig Dur	Rem Dur	Phys % Compl	Start	Finish	Total Float
18-923-10460	Remove BMP'S	1	1	0%	16-Jun-20	16-Jun-20	70
STA 2+60 to 1+00							
18-923-10470	Install BMP's	1	1	0%	02-Apr-20	02-Apr-20	21
18-923-10480	Drive H Piles and Road Plates	10	10	0%	03-Apr-20	16-Apr-20	21
18-923-10490	Demo Wall and Excavate Below	6	6	0%	17-Apr-20	24-Apr-20	21
18-923-10500	Install Working Platform	5	5	0%	27-Apr-20	01-May-20	21
18-923-10510	Install Micropiles and Proof Test	22	22	0%	04-May-20	03-Jun-20	21
18-923-10710	Set Precast Section	3	3	0%	04-Jun-20	08-Jun-20	41
18-923-10520	Construct Retaining Wall	4	4	0%	09-Jun-20	15-Jun-20	41
18-923-10530	Cure	14	14	0%	16-Jun-20	06-Jul-20	41
18-923-10540	Strip Wall Forms	1	1	0%	07-Jul-20	07-Jul-20	41
18-923-10550	Backfill Behind Retaining Wal	3	3	0%	08-Jul-20	10-Jul-20	41
18-923-10560	Remove H Piles and Road Plates	4	4	0%	13-Jul-20	16-Jul-20	41
18-923-10570	Remove BMP'S	1	1	0%	17-Jul-20	17-Jul-20	41
STA 1+00 to 0+00							
18-923-10580	Install BMP's	1	1	0%	16-Jun-20	16-Jun-20	0
18-923-10590	Drive H Piles and Road Plates	6	6	0%	17-Jun-20	24-Jun-20	0
18-923-10600	Demo Wall and Excavate Below	4	4	0%	25-Jun-20	30-Jun-20	0
18-923-10610	Install Working Platform	3	3	0%	01-Jul-20	06-Jul-20	0
18-923-10620	Install Micropiles and Proof Test	10	10	0%	07-Jul-20	20-Jul-20	0
18-923-10720	Set Precast Section	2	2	0%	21-Jul-20	22-Jul-20	0
18-923-10630	Construct Retaining Wall	3	3	0%	23-Jul-20	27-Jul-20	0
18-923-10640	Cure	14	14	0%	28-Jul-20	14-Aug-20	0
18-923-10650	Strip Wall Forms	1	1	0%	17-Aug-20	17-Aug-20	0
18-923-10660	Backfill Behind Retaining Wal	2	2	0%	18-Aug-20	19-Aug-20	0
18-923-10670	Remove H Piles and Road Plates	2	2	0%	20-Aug-20	21-Aug-20	0
18-923-10680	Remove BMP'S	1	1	0%	24-Aug-20	24-Aug-20	0
Installation of Sprinkler System							
18-923-10090	Install Sprinkler System	10	10	0%	25-Aug-20	08-Sep-20	0
Place 6" Top Soil and Grass							
18-923-10080	Place 6" Top Soil and Grass	5	5	0%	09-Sep-20	15-Sep-20	0
Additive 2: Wall Stabilization between Kalakaua Ave & McCully St.							
Mob							
18-923-1000	Mob Equipment/Protect Paver Tiles	8	8	0%	12-Dec-19*	23-Dec-19	10
Demo of Sprinkler System							
18-923-1010	Demo of Existing Sprinkler System	10	10	0%	24-Dec-19	08-Jan-20	10
Removal of Trees							
18-923-1020	Removal of Trees	5	5	0%	09-Jan-20	15-Jan-20	10
STA 23+95 to 20+86							
1-1 40' Excavation							
18-923-1030	Install Shoring for Trenches	2	2	0%	16-Jan-20	17-Jan-20	10
18-923-1040	Excavate Trenches	3	3	0%	21-Jan-20	23-Jan-20	10
18-923-1050	Core/Install for GFRP Anchor	2	2	0%	24-Jan-20	27-Jan-20	10
18-923-1060	Install Light Weight Backfill	2	2	0%	28-Jan-20	29-Jan-20	10
18-923-1080	Cure Backfill	14	14	0%	30-Jan-20	19-Feb-20	68
1-2 40' Excavation							
18-923-1070	Install Shoring for Trenches	2	2	0%	30-Jan-20	31-Jan-20	10
18-923-1090	Excavate Trenches	3	3	0%	03-Feb-20	05-Feb-20	10



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HAWAII HARBORS CONSTRUCTORS JV

Ala Wai Canal Dredging Improvements

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13-Sep-19	Basline Construction Schedule for Sub...	ccu	ejk

Activity ID	Activity Description	Orig Dur	Rem Dur	Phys % Compl	Start	Finish	Total Float
18-923-1100	Core/Install for GFRP Anchor	2	2	0%	06-Feb-20	07-Feb-20	10
18-923-1110	Install Light Weight Backfill	1	1	0%	10-Feb-20	10-Feb-20	10
18-923-1130	Cure Backfill	14	14	0%	11-Feb-20	02-Mar-20	60
1-3 40' Excavation							
18-923-1120	Install Shoring for Trenches	2	2	0%	11-Feb-20	12-Feb-20	10
18-923-1140	Excavate Trenches	3	3	0%	13-Feb-20	18-Feb-20	10
18-923-1150	Core/Install for GFRP Anchor	2	2	0%	19-Feb-20	20-Feb-20	10
18-923-1160	Install Light Weight Backfill	1	1	0%	21-Feb-20	21-Feb-20	10
18-923-1180	Cure Backfill	14	14	0%	24-Feb-20	12-Mar-20	56
1-4 40' Excavation							
18-923-1170	Install Shoring for Trenches	2	2	0%	24-Feb-20	25-Feb-20	10
18-923-1190	Excavate Trenches	3	3	0%	26-Feb-20	28-Feb-20	10
18-923-1200	Core/Install for GFRP Anchor	2	2	0%	02-Mar-20	03-Mar-20	10
18-923-1210	Install Light Weight Backfill	1	1	0%	04-Mar-20	04-Mar-20	10
18-923-1230	Cure Backfill	14	14	0%	05-Mar-20	24-Mar-20	48
1-5 40' Excavation							
18-923-1220	Install Shoring for Trenches	2	2	0%	05-Mar-20	06-Mar-20	10
18-923-1240	Excavate Trenches	3	3	0%	09-Mar-20	11-Mar-20	10
18-923-1250	Core/Install for GFRP Anchor	2	2	0%	12-Mar-20	13-Mar-20	10
18-923-1260	Install Light Weight Backfill	1	1	0%	16-Mar-20	16-Mar-20	10
18-923-1280	Cure Backfill	14	14	0%	17-Mar-20	03-Apr-20	44
1-6 40' Excavation							
18-923-1270	Install Shoring for Trenches	2	2	0%	17-Mar-20	18-Mar-20	10
18-923-1290	Excavate Trenches	3	3	0%	19-Mar-20	23-Mar-20	10
18-923-1300	Core/Install for GFRP Anchor	2	2	0%	24-Mar-20	25-Mar-20	10
18-923-1310	Install Light Weight Backfill	1	1	0%	26-Mar-20	26-Mar-20	10
18-923-1330	Cure Backfill	14	14	0%	27-Mar-20	15-Apr-20	36
1-7 40' Excavation							
18-923-1320	Install Shoring for Trenches	2	2	0%	27-Mar-20	30-Mar-20	10
18-923-1340	Excavate Trenches	3	3	0%	31-Mar-20	02-Apr-20	10
18-923-1350	Core/Install for GFRP Anchor	2	2	0%	03-Apr-20	06-Apr-20	10
18-923-1360	Install Light Weight Backfill	1	1	0%	07-Apr-20	07-Apr-20	10
18-923-1380	Cure Backfill	14	14	0%	08-Apr-20	27-Apr-20	32
1-8 40' Excavation							
18-923-1370	Install Shoring for Trenches	2	2	0%	08-Apr-20	09-Apr-20	10
18-923-1390	Excavate Trenches	3	3	0%	10-Apr-20	14-Apr-20	10
18-923-1400	Core/Install for GFRP Anchor	2	2	0%	15-Apr-20	16-Apr-20	10
18-923-1410	Install Light Weight Backfill	1	1	0%	17-Apr-20	17-Apr-20	10
18-923-1430	Cure Backfill	14	14	0%	20-Apr-20	07-May-20	28
1-9 40' Excavation							
18-923-1420	Install Shoring for Trenches	2	2	0%	20-Apr-20	21-Apr-20	10
18-923-1440	Excavate Trenches	3	3	0%	22-Apr-20	24-Apr-20	10
18-923-1450	Core/Install for GFRP Anchor	2	2	0%	27-Apr-20	28-Apr-20	10
18-923-1460	Install Light Weight Backfill	1	1	0%	29-Apr-20	29-Apr-20	10
18-923-1480	Cure Backfill	14	14	0%	30-Apr-20	19-May-20	24
1-10 35' Excavation							
18-923-1470	Install Shoring for Trenches	2	2	0%	30-Apr-20	01-May-20	10
18-923-1490	Excavate Trenches	3	3	0%	04-May-20	06-May-20	10

Level of Effort
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HAWAII HARBORS CONSTRUCTORS JV

Ala Wai Canal Dredging Improvements

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13-Sep-19	Basline Construction Schedule for Sub...	ccu	ejk

Activity ID	Activity Description	Orig Dur	Rem Dur	Phys % Compl	Start	Finish	Total Float
18-923-1500	Core/Install for GFRP Anchor	2	2	0%	07-May-20	08-May-20	10
18-923-1510	Install Light Weight Backfill	1	1	0%	11-May-20	11-May-20	10
18-923-1530	Cure Backfill	14	14	0%	12-May-20	01-Jun-20	20
Seat Wall Replacement							
STA 23+95 to 23+55							
18-923-1520	Demo of Seat Wall	3	3	0%	12-May-20	14-May-20	10
18-923-1540	Drill and Epoxy #4 Rebar	1	1	0%	15-May-20	15-May-20	10
18-923-1560	Install Rebar	1	1	0%	18-May-20	18-May-20	68
18-923-1570	Place Forms	3	3	0%	19-May-20	21-May-20	68
18-923-1610	Install Moss Rock Veneer	2	2	0%	22-May-20	26-May-20	68
18-923-1630	Pour Concrete	1	1	0%	27-May-20	27-May-20	68
18-923-1650	Cure Concrete	7	7	0%	28-May-20	05-Jun-20	68
18-923-1780	Strip Forms	1	1	0%	08-Jun-20	08-Jun-20	68
STA 23+55 to 23+15							
18-923-1550	Demo of Seat Wall	3	3	0%	18-May-20	20-May-20	10
18-923-1580	Drill and Epoxy #4 Rebar	1	1	0%	21-May-20	21-May-20	10
18-923-1600	Install Rebar	1	1	0%	22-May-20	22-May-20	64
18-923-1620	Place Forms	3	3	0%	26-May-20	28-May-20	64
18-923-1680	Install Moss Rock Veneer	2	2	0%	29-May-20	01-Jun-20	64
18-923-1700	Pour Concrete	1	1	0%	02-Jun-20	02-Jun-20	64
18-923-1720	Cure Concrete	7	7	0%	03-Jun-20	12-Jun-20	64
18-923-1860	Strip Forms	1	1	0%	15-Jun-20	15-Jun-20	64
STA 23+15 to 22+75							
18-923-1590	Demo of Seat Wall	3	3	0%	22-May-20	27-May-20	10
18-923-1640	Drill and Epoxy #4 Rebar	1	1	0%	28-May-20	28-May-20	10
18-923-1670	Install Rebar	1	1	0%	29-May-20	29-May-20	60
18-923-1690	Place Forms	3	3	0%	01-Jun-20	03-Jun-20	60
18-923-1750	Install Moss Rock Veneer	2	2	0%	04-Jun-20	05-Jun-20	60
18-923-1770	Pour Concrete	1	1	0%	08-Jun-20	08-Jun-20	60
18-923-1800	Cure Concrete	7	7	0%	09-Jun-20	18-Jun-20	60
18-923-1940	Strip Forms	1	1	0%	19-Jun-20	19-Jun-20	60
STA 22+75 to 22+35							
18-923-1660	Demo of Seat Wall	3	3	0%	29-May-20	02-Jun-20	10
18-923-1710	Drill and Epoxy #4 Rebar	1	1	0%	03-Jun-20	03-Jun-20	10
18-923-1740	Install Rebar	1	1	0%	04-Jun-20	04-Jun-20	56
18-923-1760	Place Forms	3	3	0%	05-Jun-20	09-Jun-20	56
18-923-1830	Install Moss Rock Veneer	2	2	0%	10-Jun-20	12-Jun-20	56
18-923-1850	Pour Concrete	1	1	0%	15-Jun-20	15-Jun-20	56
18-923-1880	Cure Concrete	7	7	0%	16-Jun-20	24-Jun-20	56
18-923-2010	Strip Forms	1	1	0%	25-Jun-20	25-Jun-20	56
STA 22+35 to 21+95							
18-923-1730	Demo of Seat Wall	3	3	0%	04-Jun-20	08-Jun-20	10
18-923-1790	Drill and Epoxy #4 Rebar	1	1	0%	09-Jun-20	09-Jun-20	10
18-923-1820	Install Rebar	1	1	0%	10-Jun-20	10-Jun-20	52
18-923-1840	Place Forms	3	3	0%	12-Jun-20	16-Jun-20	52
18-923-1900	Install Moss Rock Veneer	2	2	0%	17-Jun-20	18-Jun-20	52
18-923-1930	Pour Concrete	1	1	0%	19-Jun-20	19-Jun-20	52
18-923-1960	Cure Concrete	7	7	0%	22-Jun-20	30-Jun-20	52

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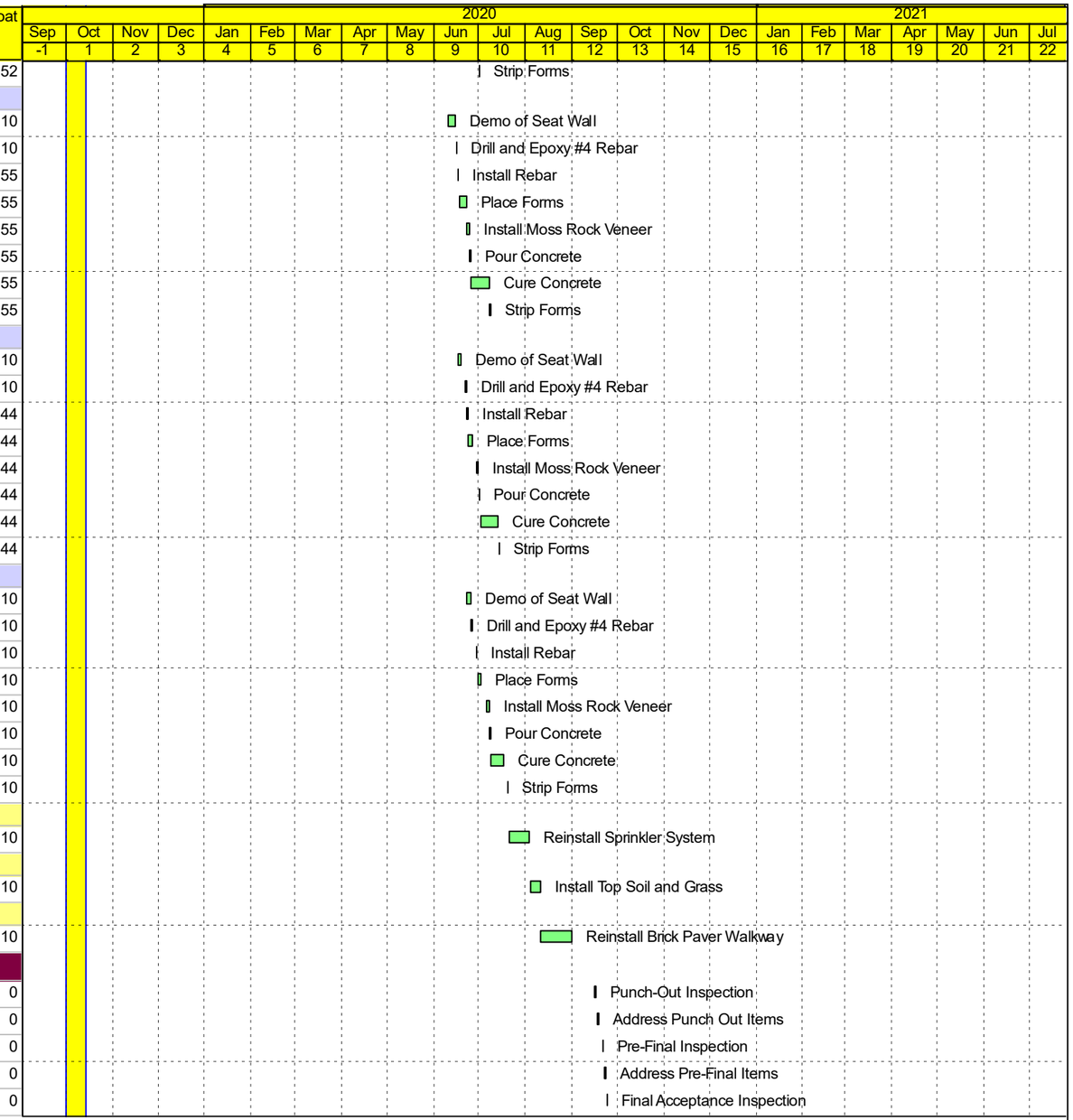
Activity ID	Activity Description	Orig Dur	Rem Dur	Phys % Compl	Start	Finish	Total Float
18-923-2090	Strip Forms	1	1	0%	01-Jul-20	01-Jul-20	52
STA 21+95 to 21+55							
18-923-1810	Demo of Seat Wall	3	3	0%	10-Jun-20	15-Jun-20	10
18-923-1870	Drill and Epoxy #4 Rebar	1	1	0%	16-Jun-20	16-Jun-20	10
18-923-1910	Install Rebar	1	1	0%	17-Jun-20	17-Jun-20	55
18-923-1920	Place Forms	3	3	0%	18-Jun-20	22-Jun-20	55
18-923-1990	Install Moss Rock Veneer	2	2	0%	23-Jun-20	24-Jun-20	55
18-923-2020	Pour Concrete	1	1	0%	25-Jun-20	25-Jun-20	55
18-923-2040	Cure Concrete	7	7	0%	26-Jun-20	07-Jul-20	55
18-923-2130	Strip Forms	1	1	0%	08-Jul-20	08-Jul-20	55
STA 21+55 to 21+15							
18-923-1890	Demo of Seat Wall	3	3	0%	17-Jun-20	19-Jun-20	10
18-923-1950	Drill and Epoxy #4 Rebar	1	1	0%	22-Jun-20	22-Jun-20	10
18-923-1980	Install Rebar	1	1	0%	23-Jun-20	23-Jun-20	44
18-923-2000	Place Forms	3	3	0%	24-Jun-20	26-Jun-20	44
18-923-2060	Install Moss Rock Veneer	2	2	0%	29-Jun-20	30-Jun-20	44
18-923-2080	Pour Concrete	1	1	0%	01-Jul-20	01-Jul-20	44
18-923-2100	Cure Concrete	7	7	0%	02-Jul-20	13-Jul-20	44
18-923-2150	Strip Forms	1	1	0%	14-Jul-20	14-Jul-20	44
STA 21+15 to 20+86							
18-923-1970	Demo of Seat Wall	3	3	0%	23-Jun-20	25-Jun-20	10
18-923-2030	Drill and Epoxy #4 Rebar	1	1	0%	26-Jun-20	26-Jun-20	10
18-923-2050	Install Rebar	1	1	0%	29-Jun-20	29-Jun-20	10
18-923-2070	Place Forms	3	3	0%	30-Jun-20	02-Jul-20	10
18-923-2110	Install Moss Rock Veneer	2	2	0%	06-Jul-20	07-Jul-20	10
18-923-2120	Pour Concrete	1	1	0%	08-Jul-20	08-Jul-20	10
18-923-2140	Cure Concrete	7	7	0%	09-Jul-20	17-Jul-20	10
18-923-2160	Strip Forms	1	1	0%	20-Jul-20	20-Jul-20	10
Reinstall Sprinkler System							
18-923-2170	Reinstall Sprinkler System	10	10	0%	21-Jul-20	03-Aug-20	10
Install Top Soil and Grass							
18-923-2180	Install Top Soil and Grass	5	5	0%	04-Aug-20	10-Aug-20	10
Replace Brick Pavers							
18-923-2190	Reinstall Brick Paver Walkway	15	15	0%	11-Aug-20	31-Aug-20	10
Turnover & Closeout Activities							
18-923-90010	Punch-Out Inspection	1	1	0%	16-Sep-20	16-Sep-20	0
18-923-90020	Address Punch Out Items	2	2	0%	17-Sep-20	18-Sep-20	0
18-923-90030	Pre-Final Inspection	1	1	0%	21-Sep-20	21-Sep-20	0
18-923-90040	Address Pre-Final Items	2	2	0%	22-Sep-20	23-Sep-20	0
18-923-90050	Final Acceptance Inspection	1	1	0%	24-Sep-20	24-Sep-20	0



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