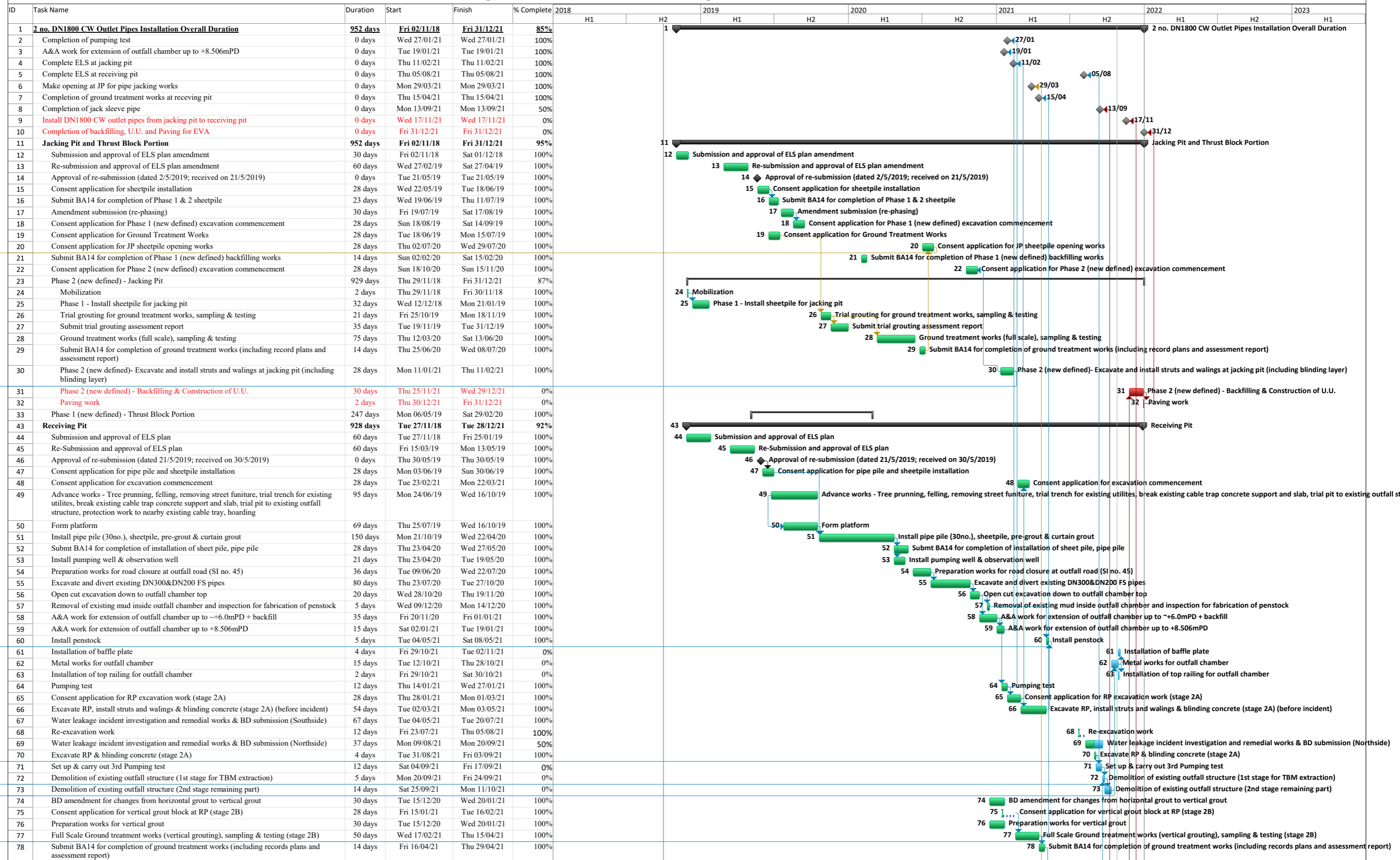


Revised Works Programme for 2no. DN1800 CW Outlet Pipes Installation - Culvert Outfall No. 4 + GRS Works

No.4 Outfall A&A+GRS (Rev.17) (26-10-2021)



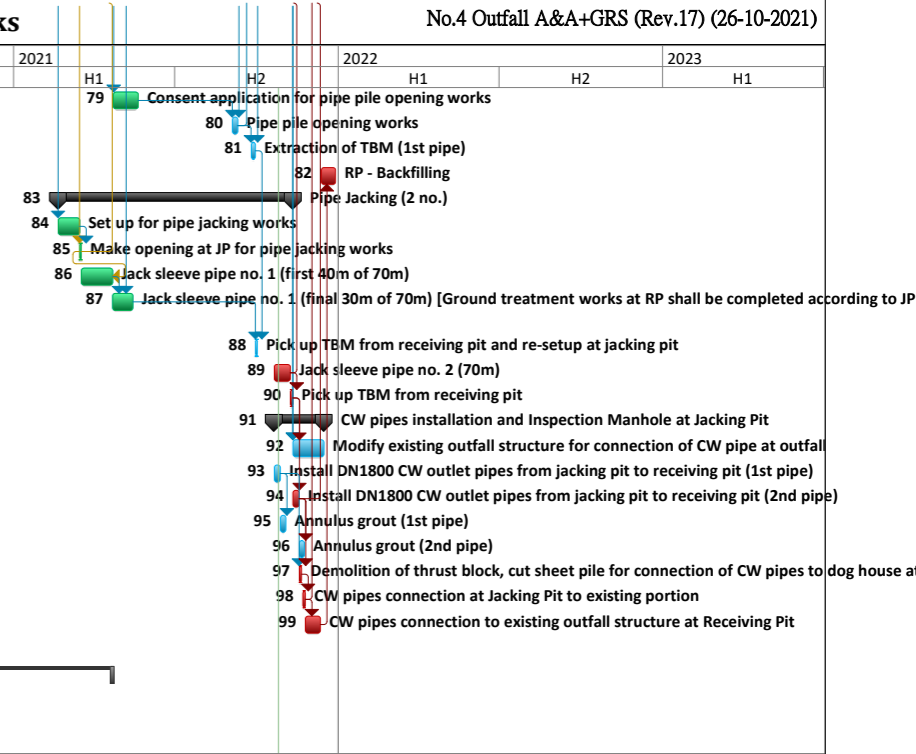
Paul Y Construction Co., Ltd.

Task Split Milestone Summary Project Summary External Tasks Critical Critical Split Progress

Revised Works Programme for 2no. DN1800 CW Outlet Pipes Installation - Culvert Outfall No. 4 + GRS Works

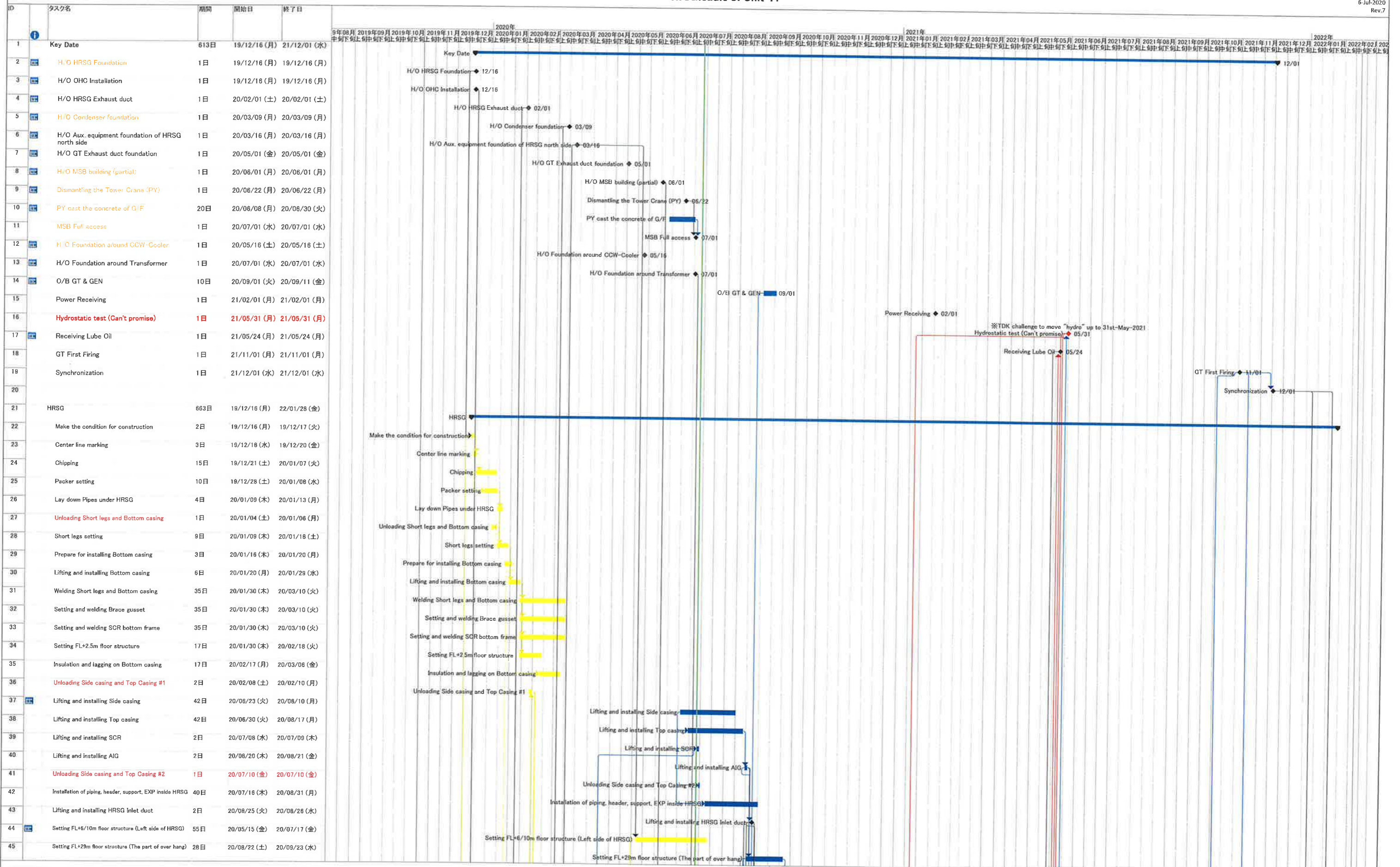
No.4 Outfall A&A+GRS (Rev.17) (26-10-2021)

ID	Task Name	Duration	Start	Finish	% Complete	2018		2019		2020		2021		2022		2023
						H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1
79	Consent application for pipe pile opening works	28 days	Fri 23/04/21	Thu 20/05/21	100%											
80	Pipe pile opening works	5 days	Sat 04/09/21	Thu 09/09/21	0%											
81	Extraction of TBM (1st pipe)	4 days	Sat 25/09/21	Wed 29/09/21	0%											
82	RP - Backfilling	14 days	Mon 13/12/21	Tue 28/12/21	0%											
83	Pipe Jacking (2 no.)	226 days	Sat 20/02/21	Wed 10/11/21	78%											
84	Set up for pipe jacking works	20 days	Sat 20/02/21	Mon 15/03/21	100%											
85	Make opening at JP for pipe jacking works	2 days	Tue 16/03/21	Wed 17/03/21	100%											
86	Jack sleeve pipe no. 1 (first 40m of 70m)	30 days	Thu 18/03/21	Wed 21/04/21	100%											
87	Jack sleeve pipe no. 1 (final 30m of 70m) [Ground treatment works at RP shall be completed according to JP approval plan.]	20 days	Thu 22/04/21	Fri 14/05/21	100%											
88	Pick up TBM from receiving pit and re-setup at jacking pit	2 days	Thu 30/09/21	Fri 01/10/21	0%											
89	Jack sleeve pipe no. 2 (70m)	15 days	Thu 21/10/21	Sun 07/11/21	0%											
90	Pick up TBM from receiving pit	3 days	Mon 08/11/21	Wed 10/11/21	0%											
91	CW pipes installation and Inspection Manhole at Jacking Pit	48 days	Thu 21/10/21	Wed 15/12/21	0%											
92	Modify existing outfall structure for connection of CW pipe at outfall	30 days	Thu 11/11/21	Wed 15/12/21	0%											
93	Install DN1800 CW outlet pipes from jacking pit to receiving pit (1st pipe)	6 days	Thu 28/10/21	Wed 03/11/21	0%											
94	Install DN1800 CW outlet pipes from jacking pit to receiving pit (2nd pipe)	6 days	Thu 11/11/21	Wed 17/11/21	0%											
95	Annulus grout (1st pipe)	5 days	Thu 04/11/21	Tue 09/11/21	0%											
96	Annulus grout (2nd pipe)	5 days	Thu 18/11/21	Tue 23/11/21	0%											
97	Demolition of thrust block, cut sheet pile for connection of CW pipes to dog house at Jacking	3 days	Thu 18/11/21	Sat 20/11/21	0%											
98	CW pipes connection at Jacking Pit to existing portion	3 days	Mon 22/11/21	Wed 24/11/21	0%											
99	CW pipes connection to existing outfall structure at Receiving Pit	15 days	Thu 25/11/21	Sat 11/12/21	0%											
100	Gas pipe support foundation and pipe trench and associated external works at Area E14	247 days	Mon 17/02/20	Sat 12/12/20	72%											
109	L12&L13 Outlet culvert(Connection to Jacking Pit) at Area E15(A) and associated external works at area E15(B)	357 days	Sat 15/02/20	Wed 21/04/21	59%											
117	Gas Receiving Station and L11 Gas Receiving Station Equipment Room(GRS) area extension at Area E16	202 days	Thu 12/03/20	Sat 14/11/20	90%											



Construction Schedule of Unit-11

6-Jul-2020
Rev.7

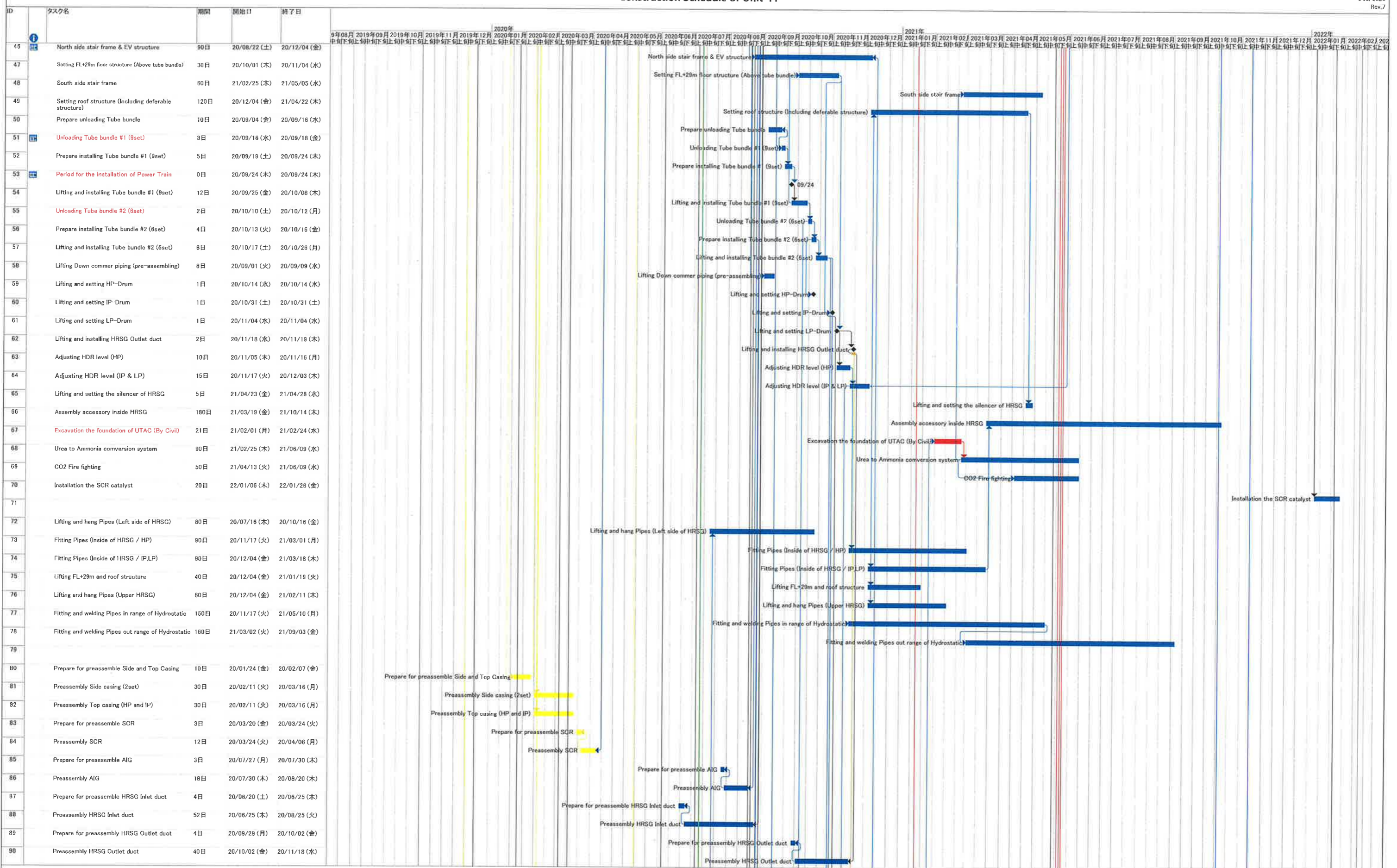


1. Change the starting date of installation below
 - Installation HRSFG was re-started from 23rd-Jun
 - Installation Exhaust duct was re-started from 15th-May
2. To consider that structure of Takasago portion is delayed

4. To consider the delay of H/O date from PDC
5. Add the schedule of the electric work and the replacement the gantry crane for CWP

Construction Schedule of Unit-11

6-Jul-2020
Rev.7

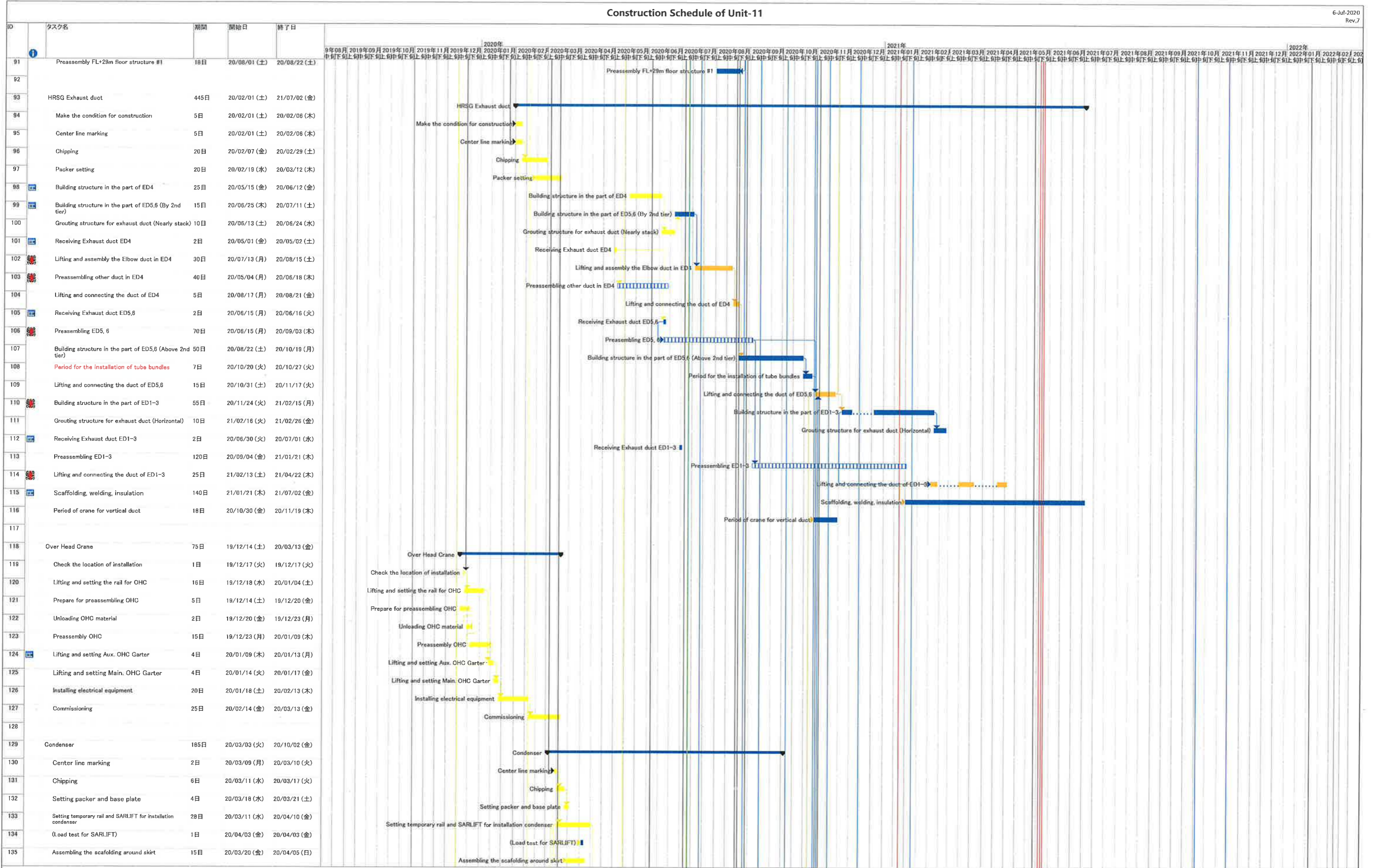


1. Change the starting date of installation below
 - ・ Installation HRSG was re-started from 23rd-Jun
 - ・ Installation Exhaust duct was re-started from 15st-May
2. To consider that structure of Takasago portion is delayed

4. To consider the delay of H/O date from PDC
5. Add the schedule of the electric work and the replacement the gantry crane for CWP

Construction Schedule of Unit-11

6-Jul-2020
Rev.7

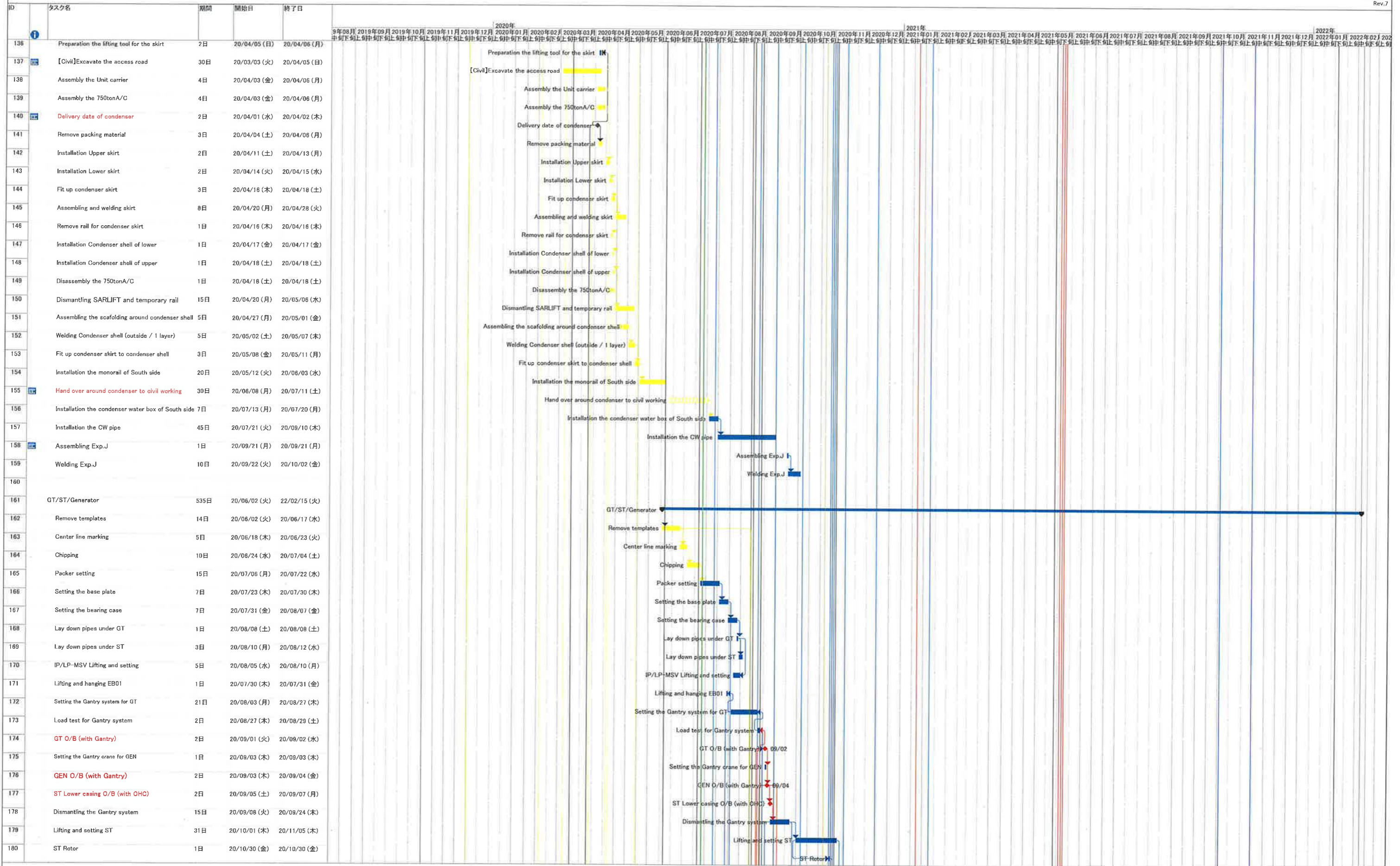


1. Change the starting date of installation below
 - ・ Installation HRSG was re-started from 23rd-Jun
 - ・ Installation Exhaust duct was re-started from 15st-May
2. To consider that structure of Takasago portion is delayed

4. To consider the delay of H/O date from PDC
5. Add the schedule of the electric work and the replacement the gantry crane for CWP

Construction Schedule of Unit-11

6-Jul-2020
Rev.7

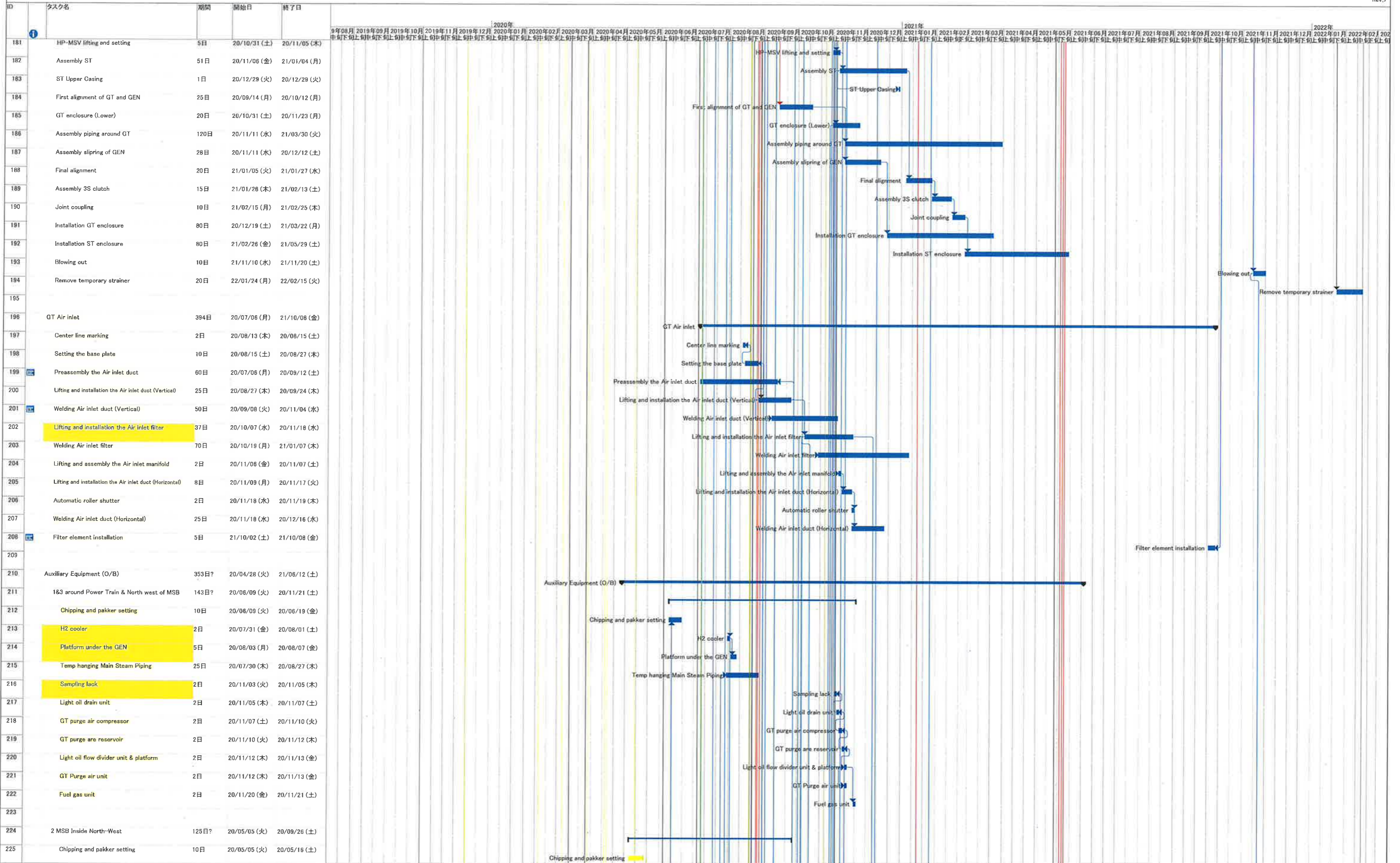


1. Change the starting date of installation below
 - ・ Installation HRSG was re-started from 23rd-Jun
 - ・ Installation Exhaust duct was re-started from 15st-May
2. To consider that structure of Takasago portion is delayed

4. To consider the delay of H/O date from PDC
5. Add the schedule of the electric work and the replacement the gantry crane for CWP

Construction Schedule of Unit-11

6-Jul-2020
Rev.7

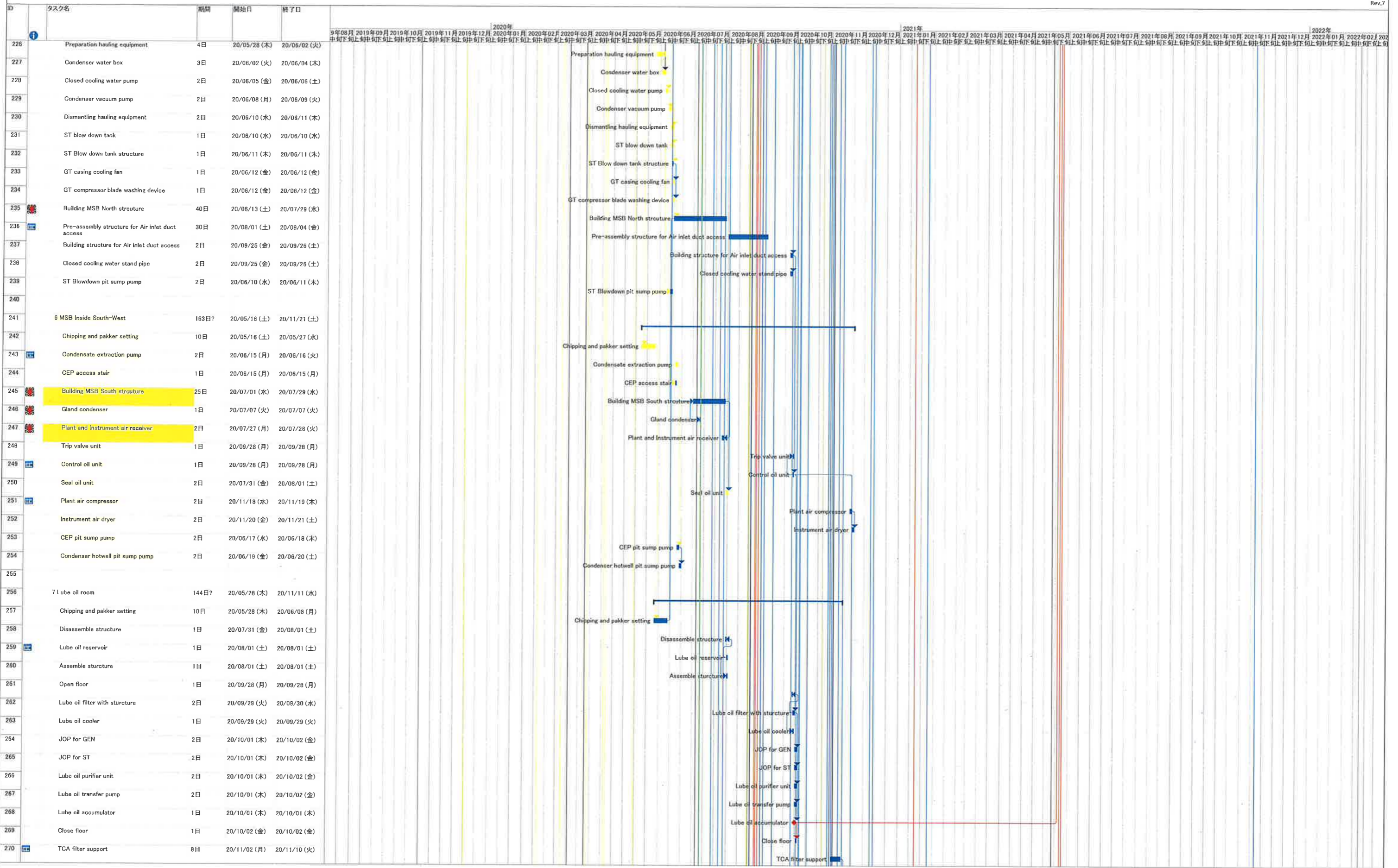


1. Change the starting date of installation below
 - ・ Installation HRSG was re-started from 23rd-Jun
 - ・ Installation Exhaust duct was re-started from 15st-May
2. To consider that structure of Takasago portion is delayed

4. To consider the delay of H/O date from PDC
5. Add the schedule of the electric work and the replacement the gantry crane for CWP

Construction Schedule of Unit-11

6-Jul-2020 Rev.7

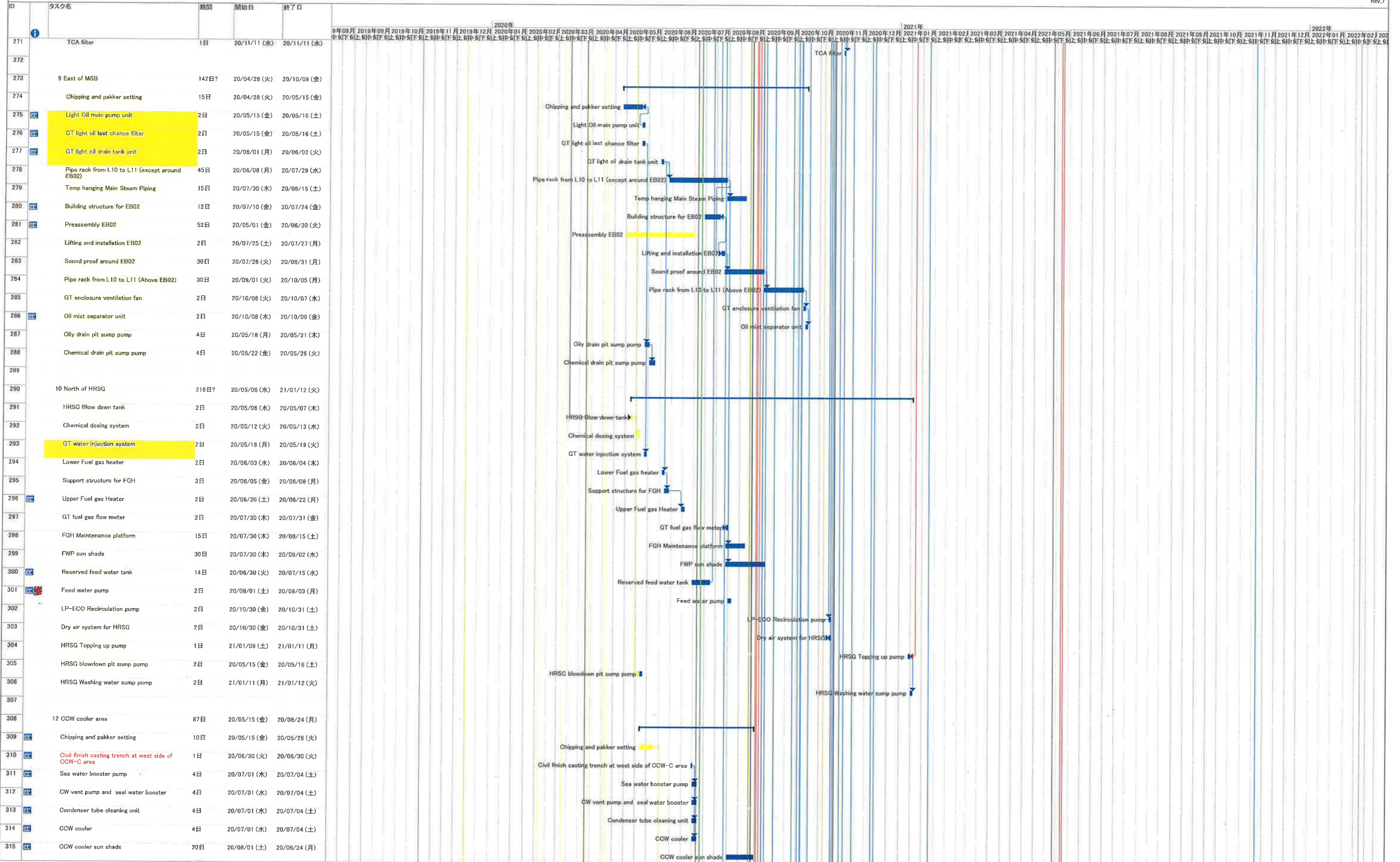


1. Change the starting date of installation below
 - ・ Installation HRSG was re-started from 23rd-Jun
 - ・ Installation Exhaust duct was re-started from 15th-May
2. To consider that structure of Takasago portion is delayed

4. To consider the delay of H/O date from PDC
5. Add the schedule of the electric work and the replacement the gantry crane for CWP

Construction Schedule of Unit-11

6-Jul-2020
Rev.7

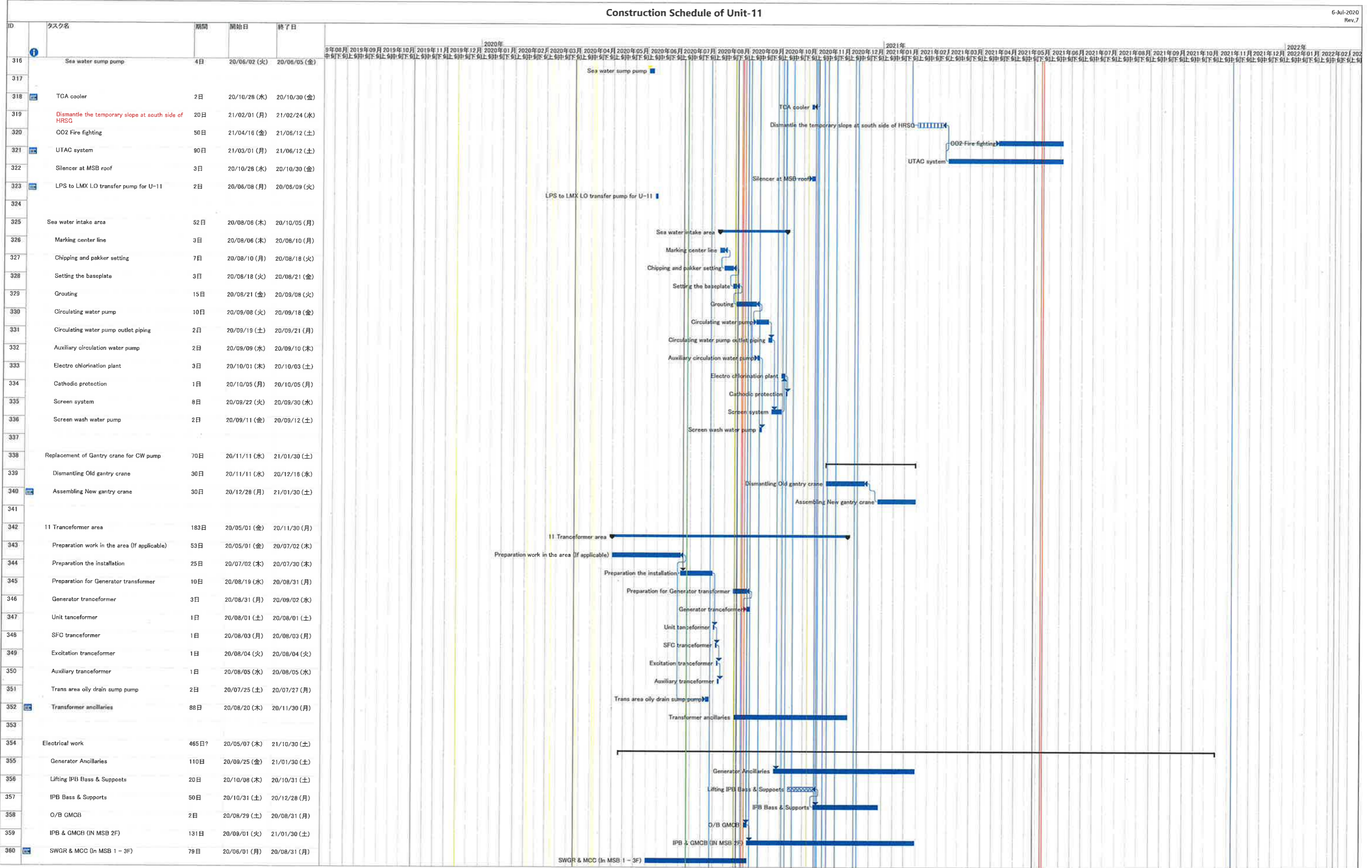


1. Change the starting date of installation below
 - ・ Installation HRSG was re-started from 23rd-Jun
 - ・ Installation Exhaust duct was re-started from 15st-May
2. To consider that structure of Takasago portion is delayed

4. To consider the delay of H/O date from PDC
5. Add the schedule of the electric work and the replacement the gantry crane for CWP

Construction Schedule of Unit-11

6-Jul-2020
Rev.7

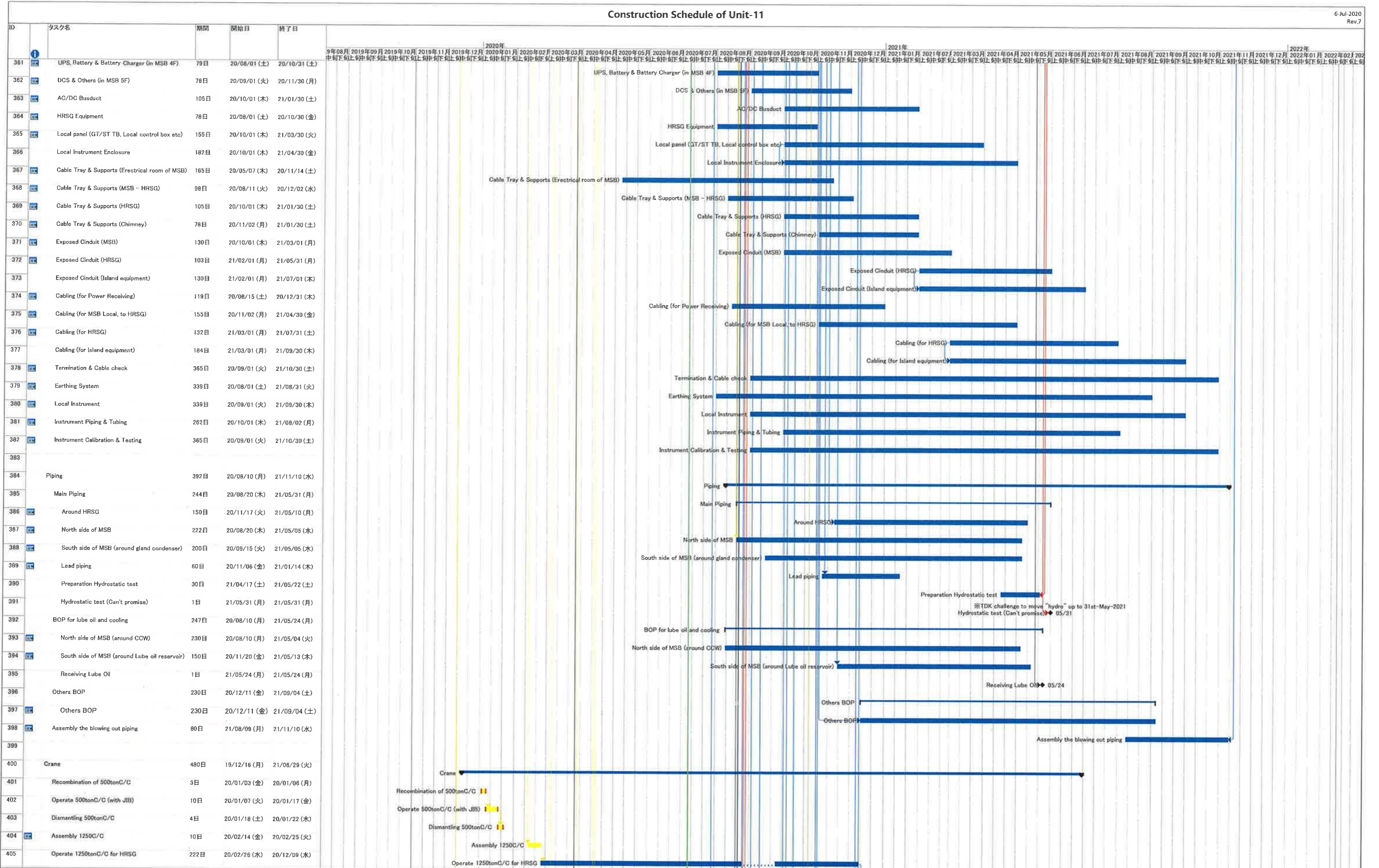


1. Change the starting date of installation below
 - ・ Installation HRSG was re-started from 23rd-Jun
 - ・ Installation Exhaust duct was re-started from 15st-May
2. To consider that structure of Takasago portion is delayed

4. To consider the delay of H/O date from PDC
5. Add the schedule of the electric work and the replacement the gantry crane for CWP

Construction Schedule of Unit-11

6-Jul-2020
Rev.7

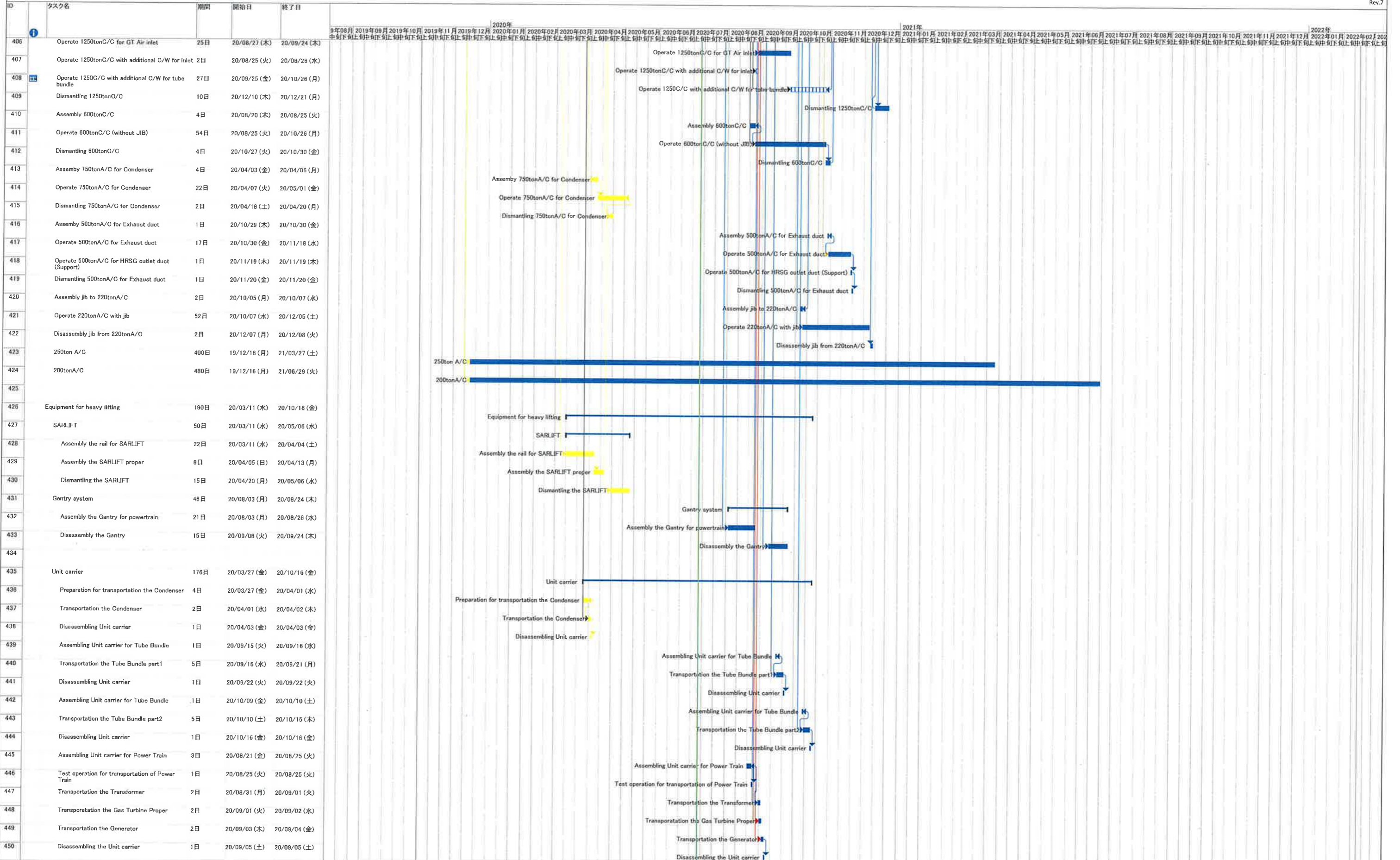


1. Change the starting date of installation below
 - ・ Installation HRSG was re-started from 23rd-Jun
 - ・ Installation Exhaust duct was re-started from 15th-May
2. To consider that structure of Takasago portion is delayed

4. To consider the delay of H/O date from PDC
5. Add the schedule of the electric work and the replacement the gantry crane for CWP

Construction Schedule of Unit-11

6-Jul-2020
Rev.7



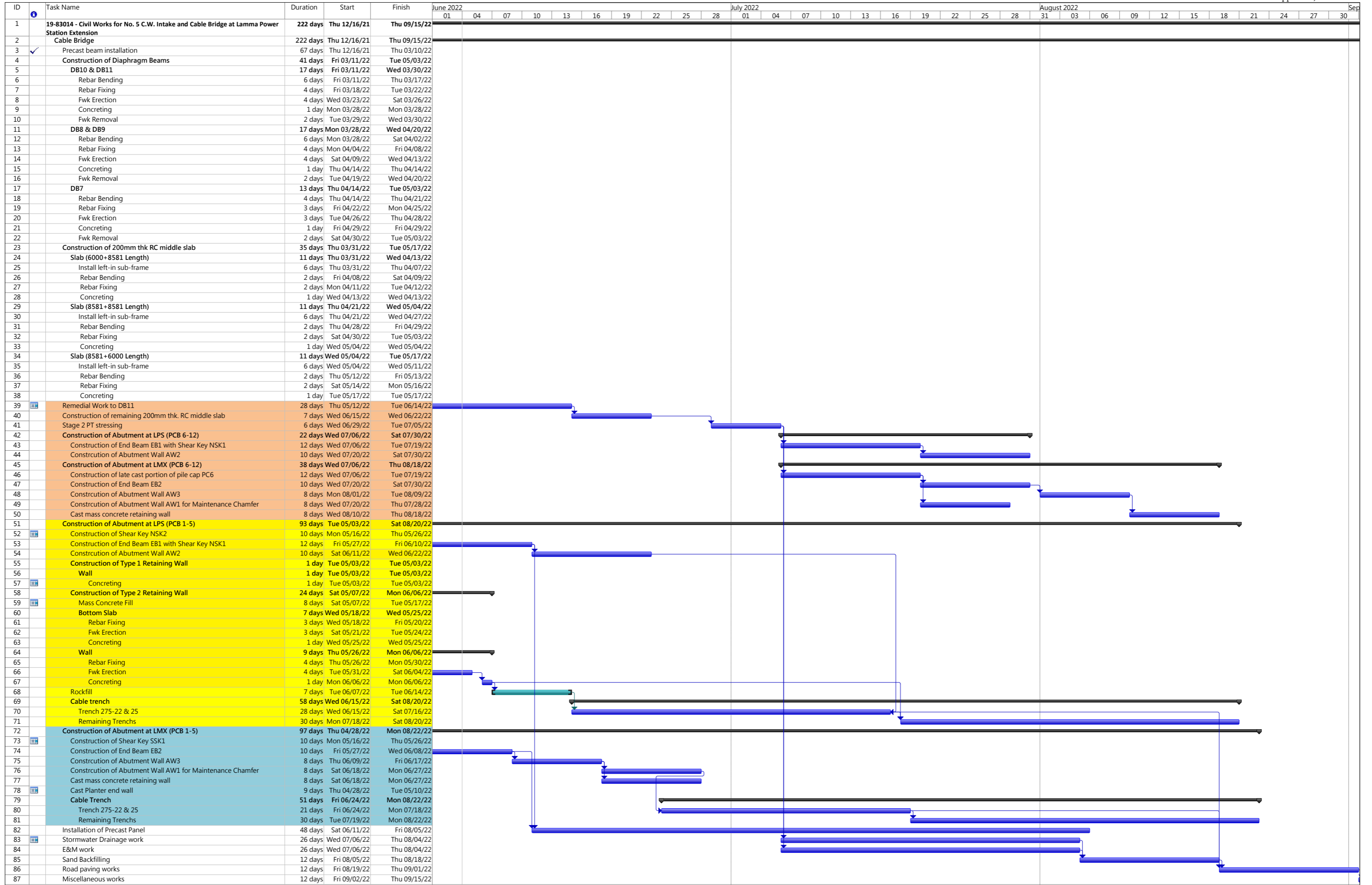
1. Change the starting date of installation below
 - ・ Installation HRSG was re-started from 23rd-Jun
 - ・ Installation Exhaust duct was re-started from 15st-May
2. To consider that structure of Takasago portion is delayed

4. To consider the delay of H/O date from PDC
5. Add the schedule of the electric work and the replacement the gantry crane for CWP

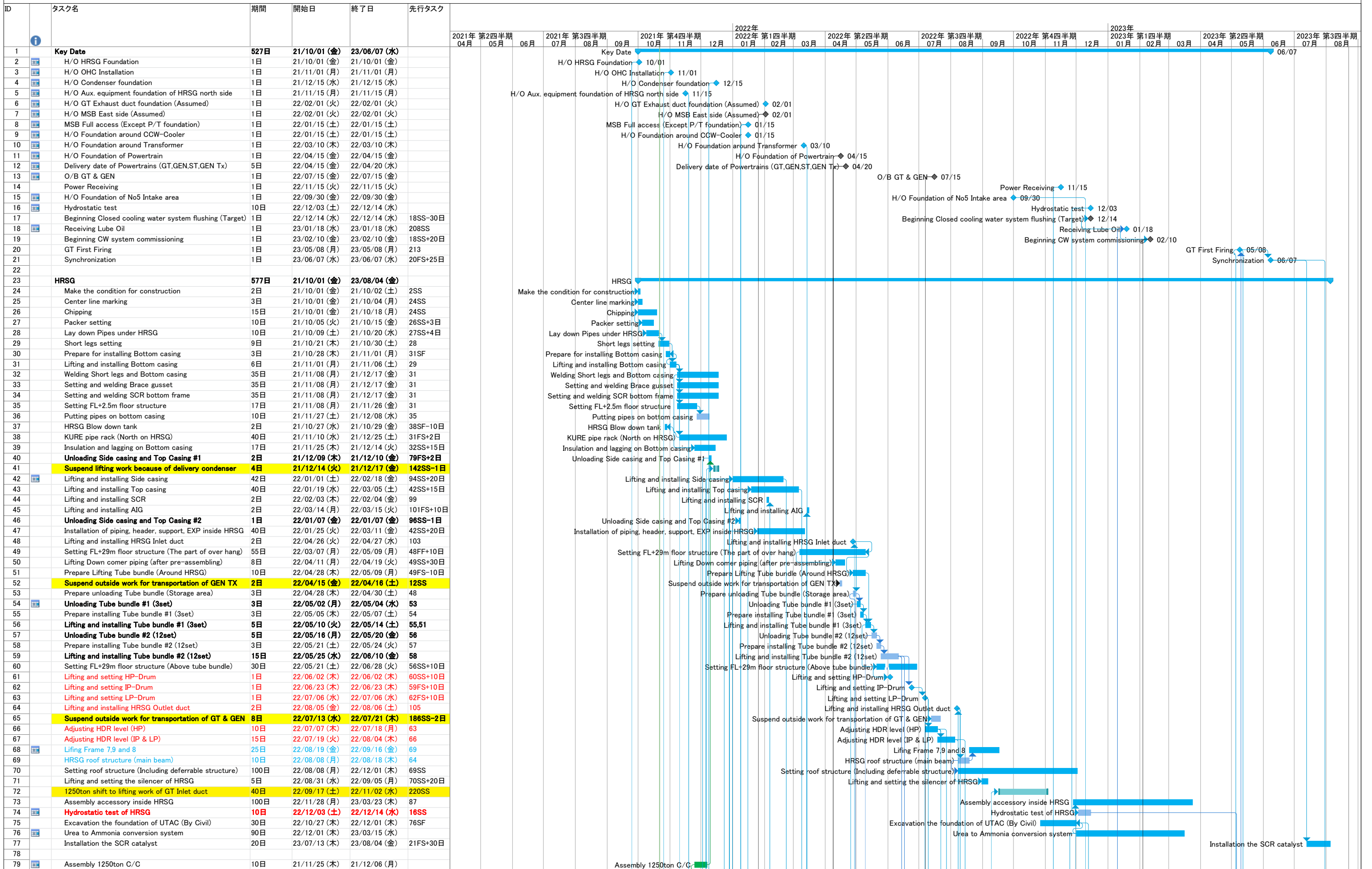
ID	Task Name	Duration	Start	Finish	Jun '22				Jul '22				Aug '22				
					29	05	12	19	26	03	10	17	24	31	07	14	21
1	19-83014 - Civil Works for No. 5 C.W. Intake and Cable Bridge at Lamma Power Station Extension	334 days	Fri 12/10/21	Sat 11/19/22													
2	No. 5 C.W. Intake	334 days	Fri 12/10/21	Sat 11/19/22													
3	Installation of 1st row of tie back (Except North)	24 days	Wed 12/15/21	Tue 01/11/22													
4	Installation of 1st row of waling and strut	5 days	Wed 01/12/22	Sun 01/16/22													
5	Install 1st row tie back after extract sheet pile	7 days	Mon 01/17/22	Sun 01/23/22													
6	Install remaining waling & struct	7 days	Fri 01/21/22	Thu 01/27/22													
7	Excavate upto +2.70mPD	5 days	Wed 01/26/22	Sun 01/30/22													
8	Pull-out Test for 2nd row of tie back (5 nos.)	10 days	Fri 02/04/22	Sun 02/13/22													
9	Intall 2nd tie back (West) 25 nos	12 days	Fri 02/04/22	Tue 02/15/22													
10	Excavate West and install struct & waling	18 days	Wed 02/16/22	Sat 03/05/22													
11	Install 2nd row of tie back (144nos)	56 days	Fri 02/04/22	Thu 03/31/22													
12	Install 2nd row Waling	14 days	Fri 03/25/22	Fri 04/08/22													
13	Excavate upto -7.20mPD	26 days	Sat 04/09/22	Wed 05/04/22													
14	Install Silt Curtain	2 days	Sat 04/09/22	Sun 04/10/22													
15	Removal of seawall coping	21 days	Mon 04/11/22	Sun 05/01/22													
16	Removal of seawall block	26 days	Thu 05/05/22	Tue 05/31/22													
17	Preparation for removal of culvert	14 days	Wed 05/18/22	Tue 05/31/22													
18	Removal of culvert	10 days	Wed 06/01/22	Sat 06/11/22													
19	Touch up formation for intake precast move in	14 days	Tue 05/31/22	Tue 06/14/22													
20	Offsite Fabrication of No. 5 Intake Chamber	166 days	Fri 12/10/21	Sat 06/04/22													
21	Bottom Slab	110 days	Fri 12/10/21	Thu 04/07/22													
22	External Wall (1st pour)	10 days	Fri 04/08/22	Sun 04/17/22													
23	External Wall (2nd pour)	10 days	Mon 04/18/22	Wed 04/27/22													
24	External Wall (3rd pour)	10 days	Thu 04/28/22	Sat 05/07/22													
25	Temp bulkhead panel	7 days	Sun 05/08/22	Sun 05/15/22													
26	Concrete curing & Mis. Work before ship out	12 days	Mon 05/16/22	Fri 05/27/22													
27	Delivery of Precast Chamber	7 days	Sat 05/28/22	Sat 06/04/22													
28	Installation of Precast No. 5 Intake Chamber	4 days	Wed 06/15/22	Sat 06/18/22													
29	Prepare formation level for reinstall culvert	10 days	Sun 06/19/22	Tue 06/28/22													
30	Reinstate of culvert	14 days	Wed 06/29/22	Tue 07/12/22													
31	Reinstate of seawall block	30 days	Wed 07/13/22	Thu 08/11/22													
32	Reinstate of seawall coping	45 days	Fri 08/12/22	Sun 09/25/22													
33	In-situ casting for top part of intake chamber	154 days	Sun 06/19/22	Sat 11/19/22													
34	Backfilling upto +2.80mPD (ie gap between pipepile & intake precast)	10 days	Sun 06/19/22	Tue 06/28/22													
35	External wall upto +5.70mPD	30 days	Thu 06/23/22	Fri 07/22/22													
36	Dewatering	6 days	Sat 07/23/22	Thu 07/28/22													
37	Install bottom layer internal precast panel	10 days	Fri 07/29/22	Sun 08/07/22													
38	Cast in-situ for bottom internal wall	12 days	Mon 08/08/22	Fri 08/19/22													
39	Install middle layer internal precast panel	10 days	Tue 08/16/22	Thu 08/25/22													
40	Cast in-situ for middle internal wall	12 days	Fri 08/26/22	Tue 09/06/22													
41	Install top layer internal precast panel	10 days	Sat 09/03/22	Mon 09/12/22													
42	Cast in-situ for top internal wall	12 days	Tue 09/13/22	Sat 09/24/22													
43	Cast in-situ for top slab	18 days	Sun 09/25/22	Wed 10/12/22													
44	Falsework removal	18 days	Thu 10/27/22	Sun 11/13/22													
45	Upstand wall and gantry railing footing	10 days	Thu 10/13/22	Sat 10/22/22													
46	Steel and Metal Works	21 days	Sun 10/30/22	Sat 11/19/22													

Project: 19-83014 - No. 5 Intake and Cable Br
 Date: 15 Mar 2022
 Rev. 6 - Programme for No. 5 C.W. Intake

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



Construction Schedule of Unit-12



NOTE
 1. The key date is subjected in the KOM held on 30th-Sep.
 2. The east area on the MSB is assumed to be handovered before B-Feb-2022 according to the above key date changed.

3.Considered the affection of KURE's schedule belows;
 i) Because of delaying the side casing,installation Inlet duct is postponed.
 ii) Because of delivery 12 TBs in one time, no enough area for pre-ass'y Outlet duct and GT Inlet duct on schedule.

