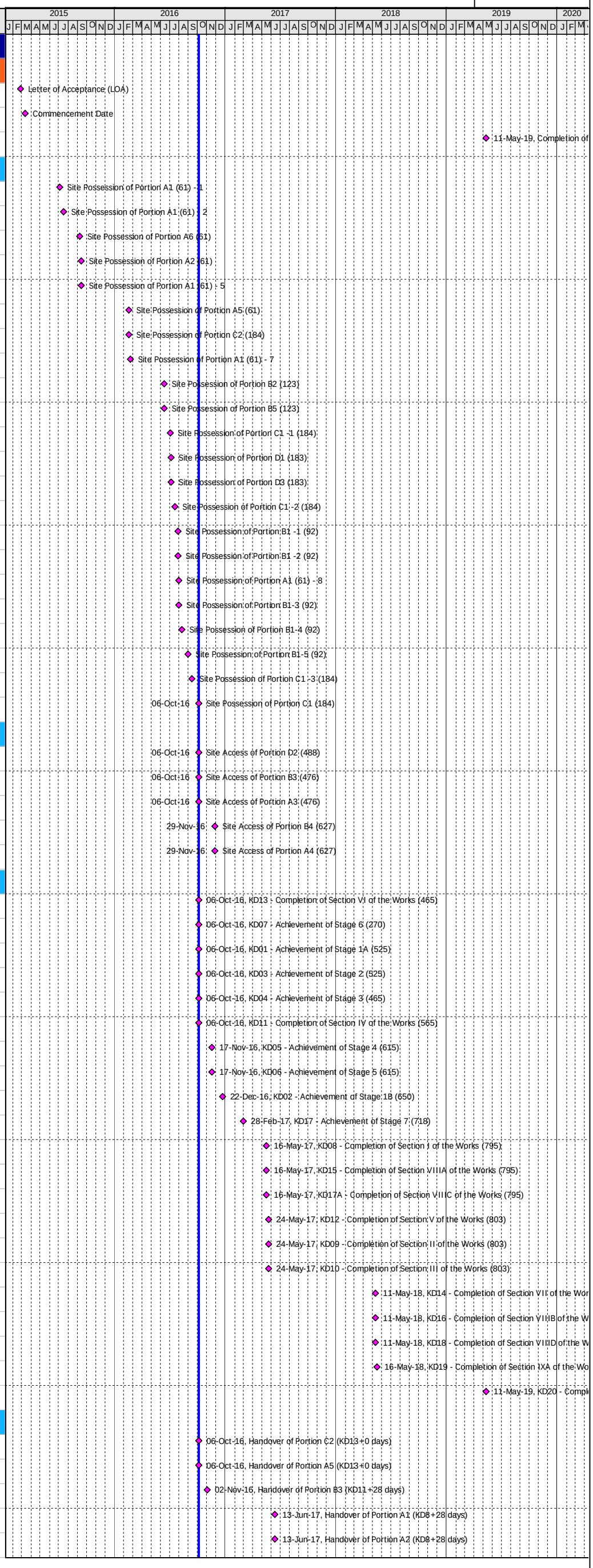
Data Date: 06-Oct-16
Print Date: 28-Oct-16 14:22

HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion)

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
Essential Works Updates - Tier 1 - 26 October 2016 - 8 moulds							
Contract Key Dates							
CON.KD.0005	Letter of Acceptance (LOA)	0d	27-Feb-15 A			CAL 1 - 7 day	
CON.KD.0010	Commencement Date	0d	13-Mar-15 A			CAL 1 - 7 day	14 days from LOA
CON.KD.0020	Completion of the whole of the Works (1520)	0d		11-May-19	474d	CAL 1 - 7 day	
Possession Dates							
CON.PD.1210	Site Possession of Portion A1 (61) - 1	0d	06-Jul-15 A			CAL 1 - 7 day	
CON.PD.1190	Site Possession of Portion A1 (61) - 2	0d	17-Jul-15 A			CAL 1 - 7 day	
CON.PD.1060	Site Possession of Portion A6 (61)	0d	09-Sep-15 A			CAL 1 - 7 day	
CON.PD.1020	Site Possession of Portion A2 (61)	0d	15-Sep-15 A			CAL 1 - 7 day	
CON.PD.1200	Site Possession of Portion A1 (61) - 5	0d	15-Sep-15 A			CAL 1 - 7 day	
CON.PD.1050	Site Possession of Portion A5 (61)	0d	18-Feb-16 A			CAL 1 - 7 day	
CON.PD.1150	Site Possession of Portion C2 (184)	0d	18-Feb-16 A			CAL 1 - 7 day	
CON.PD.1260	Site Possession of Portion A1 (61) - 7	0d	24-Feb-16 A			CAL 1 - 7 day	
CON.PD.1080	Site Possession of Portion B2 (123)	0d	14-Jun-16 A			CAL 1 - 7 day	
CON.PD.1130	Site Possession of Portion B5 (123)	0d	14-Jun-16 A			CAL 1 - 7 day	
CON.PD.1220	Site Possession of Portion C1 -1 (184)	0d	04-Jul-16 A			CAL 1 - 7 day	
CON.PD.1160	Site Possession of Portion D1 (183)	0d	06-Jul-16 A			CAL 1 - 7 day	
CON.PD.1180	Site Possession of Portion D3 (183)	0d	06-Jul-16 A			CAL 1 - 7 day	
CON.PD.1230	Site Possession of Portion C1 -2 (184)	0d	19-Jul-16 A			CAL 1 - 7 day	
CON.PD.1240	Site Possession of Portion B1 -1 (92)	0d	29-Jul-16 A			CAL 1 - 7 day	
CON.PD.1250	Site Possession of Portion B1 -2 (92)	0d	29-Jul-16 A			CAL 1 - 7 day	
CON.PD.1010	Site Possession of Portion A1 (61) - 8	0d	01-Aug-16 A			CAL 1 - 7 day	
CON.PD.1270	Site Possession of Portion B1-3 (92)	0d	01-Aug-16 A			CAL 1 - 7 day	
CON.PD.1280	Site Possession of Portion B1-4 (92)	0d	10-Aug-16 A			CAL 1 - 7 day	
CON.PD.1070	Site Possession of Portion B1-5 (92)	0d	31-Aug-16 A			CAL 1 - 7 day	
CON.PD.1290	Site Possession of Portion C1 -3 (184)	0d	12-Sep-16 A			CAL 1 - 7 day	
CON.PD.1140	Site Possession of Portion C1 (184)	0d	06-Oct-16*		-558d	CAL 1 - 7 day	
Site Access Dates							
CON.PD.1170	Site Access of Portion D2 (488)	0d	06-Oct-16*		-85d	CAL 1 - 7 day	
CON.PD.1090	Site Access of Portion B3 (476)	0d	06-Oct-16*		-97d	CAL 1 - 7 day	
CON.PD.1030	Site Access of Portion A3 (476)	0d	06-Oct-16*		-143d	CAL 1 - 7 day	
CON.PD.1100	Site Access of Portion B4 (627)	0d	29-Nov-16*		0d	CAL 1 - 7 day	
CON.PD.1040	Site Access of Portion A4 (627)	0d	29-Nov-16*		0d	CAL 1 - 7 day	
Contractual Key Dates - Stage / Section Completion of the Works							
CON.FOT.KD13	KD13 - Completion of Section VI of the Works (465)	0d		06-Oct-16*	-107d	CAL 1 - 7 day	
CON.FOT.KD07	KD07 - Achievement of Stage 6 (270)	0d		06-Oct-16*	-302d	CAL 1 - 7 day	
CON.FOT.KD01	KD01 - Achievement of Stage 1A (525)	0d		06-Oct-16*	-47d	CAL 1 - 7 day	
CON.FOT.KD03	KD03 - Achievement of Stage 2 (525)	0d		06-Oct-16*	-47d	CAL 1 - 7 day	
CON.FOT.KD04	KD04 - Achievement of Stage 3 (465)	0d		06-Oct-16*	-107d	CAL 1 - 7 day	
CON.FOT.KD11	KD11 - Completion of Section IV of the Works (565)	0d		06-Oct-16*	-7d	CAL 1 - 7 day	
CON.FOT.KD05	KD05 - Achievement of Stage 4 (615)	0d		17-Nov-16*	0d	CAL 1 - 7 day	
CON.FOT.KD06	KD06 - Achievement of Stage 5 (615)	0d		17-Nov-16*	0d	CAL 1 - 7 day	
CON.FOT.KD02	KD02 - Achievement of Stage 1B (650)	0d		22-Dec-16*	0d	CAL 1 - 7 day	
CON.FOT.KD17	KD17 - Achievement of Stage 7 (718)	0d		28-Feb-17*	0d	CAL 1 - 7 day	
CON.FOT.KD08	KD08 - Completion of Section I of the Works (795)	0d		16-May-17*	0d	CAL 1 - 7 day	
CON.FOT.KD15	KD15 - Completion of Section VIIIA of the Works (795)	0d		16-May-17*	0d	CAL 1 - 7 day	
CON.FOT.KD17A	KD17A - Completion of Section VIIIC of the Works (795)	0d		16-May-17*	0d	CAL 1 - 7 day	
CON.FOT.KD12	KD12 - Completion of Section V of the Works (803)	0d		24-May-17*	0d	CAL 1 - 7 day	
CON.FOT.KD09	KD09 - Completion of Section II of the Works (803)	0d		24-May-17*	0d	CAL 1 - 7 day	
CON.FOT.KD10	KD10 - Completion of Section III of the Works (803)	0d		24-May-17*	0d	CAL 1 - 7 day	
CON.FOT.KD14	KD14 - Completion of Section VII of the Works (1155)	0d		11-May-18*	0d	CAL 1 - 7 day	
CON.FOT.KD16	KD16 - Completion of Section VIIIB of the Works (1155)	0d		11-May-18*	0d	CAL 1 - 7 day	
CON.FOT.KD18	KD18 - Completion of Section VIIID of the Works (1155)	0d		11-May-18*	0d	CAL 1 - 7 day	
CON.FOT.KD19	KD19 - Completion of Section IXA of the Works (1160)	0d		16-May-18*	0d	CAL 1 - 7 day	
CON.FOT.KD20	KD20 - Completion of Section IXB of the Works (1520)	0d		11-May-19*	0d	CAL 1 - 7 day	
Contractual Handover Dates to Employer							
CON.HD.1320	Handover of Portion C2 (KD13+0 days)	0d		06-Oct-16*	-107d	CAL 1 - 7 day	
CON.HD.1240	Handover of Portion A5 (KD13+0 days)	0d		06-Oct-16*	-107d	CAL 1 - 7 day	
CON.HD.1280	Handover of Portion B3 (KD11+28 days)	0d		02-Nov-16*	-7d	CAL 1 - 7 day	
CON.HD.1190	Handover of Portion A1 (KD8+28 days)	0d		13-Jun-17*	0d	CAL 1 - 7 day	
CON.HD.1200	Handover of Portion A2 (KD8+28 days)	0d		13-Jun-17*	0d	CAL 1 - 7 day	



中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Current Milestone
Late Bar
Actual Work

HY/2013/04 - Detailed Works Programme

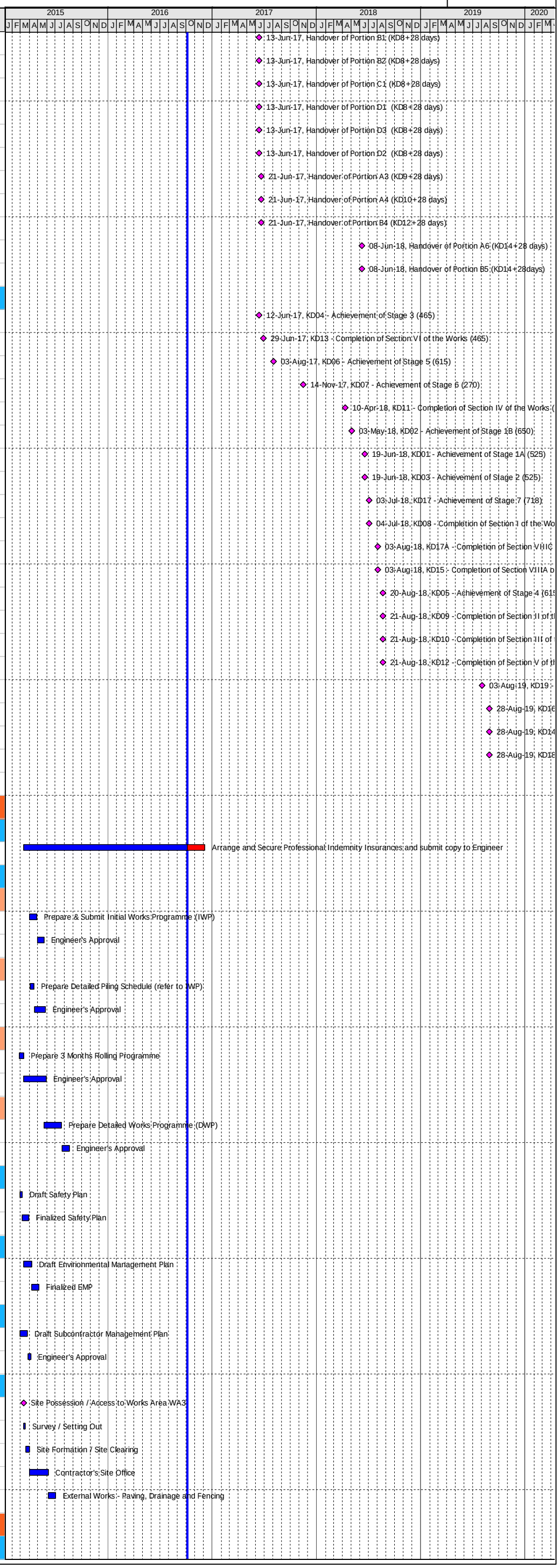
Tier 1 - 8# Moulds

Detailed Works Programme (IWP) Rev. 04

Date	Revision	Chec...	Approved
09-Sep-15	Detailed Works Programme ...	WN/WC	ET
17-Oct-15	Detailed Works Programme ...	WN/WC	ET
29-Oct-15	Detailed Works Programme ...	WN/WC	ET
25-Nov-15	Detailed Works Programme ...	WN/WC	ET

HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion)

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
CON.HD.1260	Handover of Portion B1 (KD8+28 days)	0d		13-Jun-17*	0d	CAL 1 - 7 day	
CON.HD.1270	Handover of Portion B2 (KD8+28 days)	0d		13-Jun-17*	0d	CAL 1 - 7 day	
CON.HD.1310	Handover of Portion C1 (KD8+28 days)	0d		13-Jun-17*	0d	CAL 1 - 7 day	
CON.HD.1330	Handover of Portion D1 (KD8+28 days)	0d		13-Jun-17*	0d	CAL 1 - 7 day	
CON.HD.1350	Handover of Portion D3 (KD8+28 days)	0d		13-Jun-17*	0d	CAL 1 - 7 day	
CON.HD.1340	Handover of Portion D2 (KD8+28 days)	0d		13-Jun-17*	0d	CAL 1 - 7 day	
CON.HD.1210	Handover of Portion A3 (KD9+28 days)	0d		21-Jun-17*	0d	CAL 1 - 7 day	
CON.HD.1220	Handover of Portion A4 (KD10+28 days)	0d		21-Jun-17*	0d	CAL 1 - 7 day	
CON.HD.1290	Handover of Portion B4 (KD12+28 days)	0d		21-Jun-17*	0d	CAL 1 - 7 day	
CON.HD.1250	Handover of Portion A6 (KD14+28 days)	0d		08-Jun-18*	0d	CAL 1 - 7 day	
CON.HD.1300	Handover of Portion B5 (KD14+28days)	0d		08-Jun-18*	0d	CAL 1 - 7 day	
Contractor Planned Completion: Key Dates - Stage / Section Completion of the Works							
CON.SC.KD04	KD04 - Achievement of Stage 3 (465)	0d		12-Jun-17*	-357d	CAL 1 - 7 day	
CON.SC.KD13	KD13 - Completion of Section VI of the Works (465)	0d		29-Jun-17*	-374d	CAL 1 - 7 day	
CON.SC.KD06	KD06 - Achievement of Stage 5 (615)	0d		03-Aug-17*	-259d	CAL 1 - 7 day	
CON.SC.KD07	KD07 - Achievement of Stage 6 (270)	0d		14-Nov-17*	-707d	CAL 1 - 7 day	
CON.SC.KD11	KD11 - Completion of Section IV of the Works (565)	0d		10-Apr-18*	-559d	CAL 1 - 7 day	
CON.SC.KD02	KD02 - Achievement of Stage 1B (650)	0d		03-May-18*	-497d	CAL 1 - 7 day	
CON.SC.KD01	KD01 - Achievement of Stage 1A (525)	0d		19-Jun-18*	-669d	CAL 1 - 7 day	
CON.SC.KD03	KD03 - Achievement of Stage 2 (525)	0d		19-Jun-18*	-669d	CAL 1 - 7 day	
CON.SC.KD17	KD17 - Achievement of Stage 7 (718)	0d		03-Jul-18*	-490d	CAL 1 - 7 day	
CON.SC.KD08	KD08 - Completion of Section I of the Works (795)	0d		04-Jul-18*	-414d	CAL 1 - 7 day	
CON.SC.KD17A	KD17A - Completion of Section VIIIC of the Works (795)	0d		03-Aug-18*	-444d	CAL 1 - 7 day	
CON.SC.KD15	KD15 - Completion of Section VIIIA of the Works (795)	0d		03-Aug-18*	-444d	CAL 1 - 7 day	
CON.SC.KD05	KD05 - Achievement of Stage 4 (615)	0d		20-Aug-18*	-641d	CAL 1 - 7 day	
CON.SC.KD09	KD09 - Completion of Section II of the Works (803)	0d		21-Aug-18*	-454d	CAL 1 - 7 day	
CON.SC.KD10	KD10 - Completion of Section III of the Works (803)	0d		21-Aug-18*	-454d	CAL 1 - 7 day	
CON.SC.KD12	KD12 - Completion of Section V of the Works (803)	0d		21-Aug-18*	-454d	CAL 1 - 7 day	
CON.SC.KD19	KD19 - Completion of Section IXA of the Works (1160)	0d		03-Aug-19*	-444d	CAL 1 - 7 day	
CON.SC.KD16	KD16 - Completion of Section VIIIB of the Works (1155)	0d		28-Aug-19*	-474d	CAL 1 - 7 day	
CON.SC.KD14	KD14 - Completion of Section VII of the Works (1155)	0d		28-Aug-19*	-474d	CAL 1 - 7 day	
CON.SC.KD18	KD18 - Completion of Section VIIID of the Works (1155)	0d		28-Aug-19*	-474d	CAL 1 - 7 day	
CON.SC.KD20	KD20 - Completion of Section IXB of the Works (1520)	0d		27-Aug-20*	-474d	CAL 1 - 7 day	
Preliminaries and General Requirements							
Insurance							
CON.PR.1010	Arrange and Secure Professional Indemnity Insurances and submit	60d	13-Mar-15 A	04-Dec-16*	-587d	CAL 1 - 7 day	within 60 days
Programme							
Initial Works Programme							
CON.PR.1020.10	Prepare & Submit Initial Works Programme (IWP)	7d	02-Apr-15 A	28-Apr-15 A		CAL 1 - 7 day	7 days from LOA
CON.PR.1020.20	Engineer's Approval	30d	29-Apr-15 A	22-May-15 A		CAL 1 - 7 day	
Provisional Programme for Piling Works							
CON.PR.1030.10	Prepare Detailed Piling Schedule (refer to IWP)	14d	05-Apr-15 A	18-Apr-15 A		CAL 1 - 7 day	
CON.PR.1030.20	Engineer's Approval	24d	19-Apr-15 A	29-May-15 A		CAL 1 - 7 day	
3 Months Rolling Programme							
CON.PR.1040.10	Prepare 3 Months Rolling Programme	14d	27-Feb-15 A	12-Mar-15 A		CAL 1 - 7 day	14 days from LOA
CON.PR.1040.20	Engineer's Approval	24d	13-Mar-15 A	31-May-15 A		CAL 1 - 7 day	
Detailed Works Programme							
CON.PR.1050.10	Prepare Detailed Works Programme (DWP)	60d	22-May-15 A	24-Jul-15 A		CAL 1 - 7 day	
CON.PR.1050.20	Engineer's Approval	30d	25-Jul-15 A	19-Aug-15 A		CAL 1 - 7 day	
Safety & Health							
CON.PR.1060.10	Draft Safety Plan	14d	28-Feb-15 A	09-Mar-15 A		CAL 1 - 7 day	14 days from LOA
CON.PR.1060.20	Finalized Safety Plan	21d	09-Mar-15 A	31-Mar-15 A		CAL 1 - 7 day	35 days from LOA
Environmental Management Plan							
CON.PR.1080.10	Draft Envirionmental Management Plan	21d	13-Mar-15 A	10-Apr-15 A		CAL 1 - 7 day	21 days from LOA
CON.PR.1080.20	Finalized EMP	24d	10-Apr-15 A	06-May-15 A		CAL 1 - 7 day	45 days from LOA
Sub-Contractor Management Plan							
CON.PR.1080.50	Draft Subcontractor Management Plan	30d	28-Feb-15 A	26-Mar-15 A		CAL 1 - 7 day	30 days from LOA
CON.PR.1080.60	Engineer's Approval	24d	27-Mar-15 A	08-Apr-15 A		CAL 1 - 7 day	
Temporary Facilities							
CON.PR.0130	Site Possession / Access to Works Area WA3	0d	13-Mar-15 A			CAL 2 - 6 day	
CON.PR.0140	Survey / Setting Out	6d	13-Mar-15 A	19-Mar-15 A		CAL 2 - 6 day	
CON.PR.0150.10	Site Formation / Site Clearing	12d	20-Mar-15 A	03-Apr-15 A		CAL 2 - 6 day	
CON.PR.0160	Contractor's Site Office	45d	03-Apr-15 A	08-Jun-15 A		CAL 2 - 6 day	
CON.PR.0170	External Works - Paving, Drainage and Fencing	24d	08-Jun-15 A	03-Jul-15 A		CAL 2 - 6 day	
Contractors Design & Procurement							
Bridge Bearings							



HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion)

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
PROC.MA.1615	Engineer's Review / Approval	24d	26-Apr-16 A	06-Oct-16	1153d	CAL 2 - 6 day	
PROC.MA.1610	Detailed Design / Shop Drawings and Materials Submission	60d	08-Apr-15 A	06-Oct-16	1153d	CAL 2 - 6 day	
PROC.MA.1670	Materials Delivery (first delivery)	0d	21-Nov-16*		-400d	CAL 2 - 6 day	
PROC.MA.1650	Production / Manufacturing / Fabrication	90d	01-Aug-16 A	12-Jan-17	-378d	CAL 2 - 6 day	
Precast Concrete - Segments							
PROC.MA.1760	Moulds Detailed Design Preparation / Submission	74d	21-Sep-15 A	05-Jan-16 A		CAL 2 - 6 day	
PROC.MA.1765	Engineer's Review / Approval	24d	05-Jan-16 A	01-Feb-16 A		CAL 2 - 6 day	
PROC.MA.1780	Cast Prototype / Inspection and Approval	24d	03-Mar-16 A	02-Apr-16 A		CAL 2 - 6 day	
PROC.MA.1770	Mould Fabrication	48d	11-Feb-16 A	21-May-16 A		CAL 2 - 6 day	
PROC.MA.2590	Materials Delivery (First Delivery)	0d	14-Nov-16*		-542d	CAL 2 - 6 day	
PROC.MA.2570	Production of Precast Segments	300d	16-Apr-16 A	26-Aug-17	-510d	CAL 2 - 6 day	1101 nos @ 4 segments / day
Segment Fabrication and Post Pouring							
Segment Fabrication Type A							
Fab.A1.001	Segment Fabrication for Bridge D1 (96 nos)	268d	02-Jul-16 A	20-Jul-17	1082d	Cal 2 - 7d Work w/ CNY & Stat. H	
Segment Fabrication Type C1							
Fab.TC1.0020	Segment Fabrication for Bridge D9c (1-3) 3 nos.	12d	17-May-16 A	03-Jun-16 A		Cal 2 - 7d Work w/ CNY & Stat. H	4 days / segment
Fab.TC1.0080	Segment Fabrication for Bridge D9c (4-14) 11 nos.	44d	04-Jun-16 A	24-Jun-16 A		Cal 2 - 7d Work w/ CNY & Stat. H	4 days / segment
Fab.TC1.0030	Segment Fabrication for Bridge D14a (1-30) 30 nos.	70d	25-Jun-16 A	29-Oct-16	-652d	Cal 2 - 7d Work w/ CNY & Stat. H	2.5 days / segment
Fab.TC4.0030	Segment Fabrication for Bridge D13 (103-129) 27 nos.	60d	29-Oct-16	28-Dec-16	1041d	Cal 2 - 7d Work w/ CNY & Stat. H	2.2 days / segment
Fab.TC1.0050	Segment Fabrication for Bridge D14b (14-27) 14 nos.	31d	28-Dec-16	14-Feb-17	1041d	Cal 2 - 7d Work w/ CNY & Stat. H	2.2 days / segment
Fab.TC1.0060	Segment Fabrication for Bridge D14c (1-15) 15 nos.	33d	14-Feb-17	19-Mar-17	1041d	Cal 2 - 7d Work w/ CNY & Stat. H	2.2 days / segment
Fab.TC4.0060	Segment Fabrication for Bridge D14c (46-60) 15 nos.	30d	19-Mar-17	22-Apr-17	1041d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.TC1.0010	Segment Fabrication for Bridge D12b (91-106) 16 nos.	32d	22-Apr-17	24-May-17	1041d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.TC1.0040	Segment Fabrication for Bridge D12a (66-80) 15 nos.	30d	24-May-17	23-Jun-17	1041d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.TC2.00060	Segment Fabrication for Bridge D15 (48-64) 17 nos.	34d	23-Jun-17	28-Jul-17	1041d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.TC3.0060	Segment Fabrication for Bridge D15 (31-47) 17 nos.	34d	28-Jul-17	31-Aug-17	1041d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Segment Fabrication Type C2							
Fab.TC2.00030	Segment Fabrication for Bridge D9c (29-42) 14 nos.	35d	18-Jun-16 A	29-Jul-16 A		Cal 2 - 7d Work w/ CNY & Stat. H	
Fab.TC2.00020	Segment Fabrication for Bridge D14a (31-59) 29 nos.	63d	30-Jul-16 A	30-Oct-16	-652d	Cal 2 - 7d Work w/ CNY & Stat. H	
Fab.TC3.0050	Segment Fabrication for Bridge D14c (31-45) 15 nos.	33d	30-Oct-16	02-Dec-16	1036d	Cal 2 - 7d Work w/ CNY & Stat. H	2.2 days / segment
Fab.TC2.00050	Segment Fabrication for Bridge D14c (16-30) 15 nos.	33d	02-Dec-16	05-Jan-17	1036d	Cal 2 - 7d Work w/ CNY & Stat. H	2.2 days / segment
Fab.TC2.00010	Segment Fabrication for Bridge D12b (112-127) 16 nos.	36d	05-Jan-17	26-Feb-17	1036d	Cal 2 - 7d Work w/ CNY & Stat. H	2.2 days / segment
Fab.TC3.0010	Segment Fabrication for Bridge D12b (44-84, 107-111) 46 nos.	92d	26-Feb-17	02-Jun-17	1036d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.TC2.00040	Segment Fabrication for Bridge D12a (48-65) 18 nos.	36d	02-Jun-17	08-Jul-17	1036d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.TC1.0070	Segment Fabrication for Bridge D15 (1-15) 15 nos.	30d	08-Jul-17	07-Aug-17	1036d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.TC4.0070	Segment Fabrication for Bridge D15 (65-78) 14 nos.	28d	07-Aug-17	04-Sep-17	1036d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Segment Fabrication Type C3							
Fab.TC4.0020	Segment Fabrication for Bridge D14a (60-75) 16 nos.	32d	01-Jul-16 A	04-Sep-16 A		Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.TC3.0020	Segment Fabrication for Bridge D9c (15-28) 14 nos.	35d	04-Sep-16 A	29-Sep-16 A		Cal 2 - 7d Work w/ CNY & Stat. H	
Fab.TC3.0030	Segment Fabrication for Bridge D13 (43-70 & 100-102) 31 nos.	69d	30-Sep-16 A	23-Dec-16	1063d	Cal 2 - 7d Work w/ CNY & Stat. H	2.2 days / segment
Fab.TC3.0040	Segment Fabrication for Bridge D14b (28-49) 22 nos.	49d	24-Dec-16	27-Feb-17	1063d	Cal 2 - 7d Work w/ CNY & Stat. H	2.2 days / segment
Fab.TC4.0050	Segment Fabrication for Bridge D14b (1-13) 13 nos.	29d	27-Feb-17	28-Mar-17	1063d	Cal 2 - 7d Work w/ CNY & Stat. H	2.2 days / segment
Fab.TC4.0040	Segment Fabrication for Bridge D12a (81-95) 15 nos.	30d	28-Mar-17	01-May-17	1063d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.TC4.0010	Segment Fabrication for Bridge D12b (1-43,85-90) 49 nos.	98d	02-May-17	08-Aug-17	1063d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Segment Fabrication Type D2							
Fab.T2.0030	Segment Fabrication for Bridge D9b (1-15) 15 nos.	38d	18-May-16 A	10-Jun-16 A		Cal 2 - 7d Work w/ CNY & Stat. H	
Fab.T1.0020	Segment Fabrication for Bridge D9a (75-86 & 92-104) 25 nos.	95d	10-Jun-16 A	01-Aug-16 A		Cal 2 - 7d Work w/ CNY & Stat. H	
Fab.T2.0010	Segment Fabrication for Bridge D9a (32-46) 15 nos.	45d	01-Aug-16 A	06-Sep-16 A		Cal 2 - 7d Work w/ CNY & Stat. H	3 days / segment
Fab.T1.0050	Segment Fabrication for Bridge D9a (1-15) 15 nos.	33d	06-Sep-16 A	16-Oct-16	-398d	Cal 2 - 7d Work w/ CNY & Stat. H	2.5 days / segment
Fab.T3.0030	Segment Fabrication for Bridge D9a (47-57, 70-74) 16 nos.	33d	16-Oct-16	18-Nov-16	989d	Cal 2 - 7d Work w/ CNY & Stat. H	2.5 days / segment
Fab.T4.0020	Segment Fabrication for Bridge D10 (61-67 & 89-95) 14 nos.	30d	18-Nov-16	18-Dec-16	989d	Cal 2 - 7d Work w/ CNY & Stat. H	2.5 days / segment
Fab.T4.0040	Segment Fabrication for Bridge D8 (48-62) 15 nos.	38d	18-Dec-16	26-Jan-17	989d	Cal 2 - 7d Work w/ CNY & Stat. H	2.5 days / segment
Fab.T3.0040	Segment Fabrication for Bridge D10 (68-88 & 27-32) 27 nos.	68d	26-Jan-17	24-Apr-17	989d	Cal 2 - 7d Work w/ CNY & Stat. H	2.5 days / segment
Fab.T2.0040	Segment Fabrication for Bridge D10 (33-47) 14 nos.	28d	24-Apr-17	23-May-17	989d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.T4.0060	Segment Fabrication for Bridge D10 (96-109) 14 nos.	28d	23-May-17	20-Jun-17	989d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.T1.0040	Segment Fabrication for Bridge D13 (33-46) 14 nos.	28d	20-Jun-17	18-Jul-17	989d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.T2.0050	Segment Fabrication for Bridge D13 (29-41) 13 nos.	26d	18-Jul-17	13-Aug-17	989d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.T4.0050	Segment Fabrication for Bridge D13 (78-98) 21 nos.	42d	13-Aug-17	24-Sep-17	989d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.T3.0070	Segment Fabrication for Bridge D15 (1-14) 14 nos.	28d	24-Sep-17	23-Oct-17	989d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Segment Fabrication Type D3							
Fab.T3.0010	Segment Fabrication for Bridge D9b (38-44) 7 nos.	35d	11-Apr-16 A	16-Jun-16 A		Cal 2 - 7d Work w/ CNY & Stat. H	5 days / segment
Fab.T3.0020	Segment Fabrication for Bridge D9b (16-30) 15 nos.	35d	16-Jun-16 A	16-Aug-16 A		Cal 2 - 7d Work w/ CNY & Stat. H	
Fab.T3.0080	Segment Fabrication for Bridge D9b (31-37) 7 nos.	18d	17-Aug-16 A	31-Aug-16 A		Cal 2 - 7d Work w/ CNY & Stat. H	
Fab.T3.0005	Segment Fabrication for Bridge D9a (16-31) 16 nos.	43d	01-Sep-16 A	06-Oct-16 A		Cal 2 - 7d Work w/ CNY & Stat. H	3 days / segment
Fab.T4.0010	Segment Fabrication for Bridge D9a (58-69, 87-91) 17 nos	43d	06-Oct-16 A	10-Nov-16	980d	Cal 2 - 7d Work w/ CNY & Stat. H	2.5 days / segment
Fab.T1.0030	Segment Fabrication for Bridge D10 (1-26) 26 nos.	65d	10-Nov-16	15-Jan-17	980d	Cal 2 - 7d Work w/ CNY & Stat. H	2.5 days / segment

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Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
Fab.T3.0050	Segment Fabrication for Bridge D8 (32-47) 16 nos.	40d	15-Jan-17	12-Mar-17	980d	Cal 2 - 7d Work w/ CNY & Stat. H	2.5 days / segment
Fab.T1.0060	Segment Fabrication for Bridge D8 (1-16) 16 nos.	32d	12-Mar-17	16-Apr-17	980d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.T2.0060	Segment Fabrication for Bridge D8 (17-31) 15 nos.	30d	16-Apr-17	17-May-17	980d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.T2.0080	Segment Fabrication for Bridge D10 (47-60) 14 nos.	28d	17-May-17	14-Jun-17	980d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.T4.0030	Segment Fabrication for Bridge D13 (15-28 & 71-77) 22 nos.	44d	14-Jun-17	28-Jul-17	980d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.T1.0010	Segment Fabrication for Bridge D11 (17-31) 15 nos.	30d	29-Jul-17	27-Aug-17	980d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.T2.0020	Segment Fabrication for Bridge D11 (1-16) 16 nos.	32d	28-Aug-17	28-Sep-17	980d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.T1.0070	Segment Fabrication for Bridge D12a (1-16) 16 nos.	32d	29-Sep-17	01-Nov-17	980d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Pier Segment - Type C -1							
Fab.T3.0090	Pier Segment for Bridge D14a - 6 Nos	60d	06-Oct-16	05-Dec-16	1070d	Cal 2 - 7d Work w/ CNY & Stat. H	10 days / segment
Fab.T3.00130	Pier Segment for Bridge D13 - 4 Nos	28d	06-Dec-16	03-Jan-17	1070d	Cal 2 - 7d Work w/ CNY & Stat. H	7 days / segment
Fab.T3.00140	Pier Segment for Bridge D14b - 4 Nos	28d	03-Jan-17	16-Feb-17	1070d	Cal 2 - 7d Work w/ CNY & Stat. H	7 days / segment
Fab.T3.00160	Pier Segment for Bridge D14c - 4 Nos	28d	16-Feb-17	16-Mar-17	1070d	Cal 2 - 7d Work w/ CNY & Stat. H	7 days / segment
Fab.T3.00170	Pier Segment for Bridge D12b - 4 Nos	28d	16-Mar-17	16-Apr-17	1070d	Cal 2 - 7d Work w/ CNY & Stat. H	7 days / segment
Fab.T3.00150	Pier Segment for Bridge D12a - 4 Nos	28d	16-Apr-17	16-May-17	1070d	Cal 2 - 7d Work w/ CNY & Stat. H	7 days / segment
Fab.T3.00120	Pier Segment for Bridge D9c - 3 Nos	21d	16-May-17	06-Jun-17	1070d	Cal 2 - 7d Work w/ CNY & Stat. H	7 days / segment
Fab.T3.00180	Pier Segment for Bridge D15 - 4 Nos	28d	06-Jun-17	04-Jul-17	1070d	Cal 2 - 7d Work w/ CNY & Stat. H	7 days / segment
Fab.T3.00260	Pier Segment for Bridge D15 - 4 Nos	28d	04-Jul-17	01-Aug-17	1070d	Cal 2 - 7d Work w/ CNY & Stat. H	7 days / segment
Pier Segment - Type D- 1							
Fab.T3.00100	Pier Segment for Bridge D9b - 4 Nos	28d	29-Sep-16 A	05-Nov-16	988d	Cal 2 - 7d Work w/ CNY & Stat. H	7 days / segment
Fab.T3.00190	Pier Segment for Bridge D9a - 5 Nos	35d	06-Nov-16	10-Dec-16	988d	Cal 2 - 7d Work w/ CNY & Stat. H	7 days / segment
Fab.T3.00210	Pier Segment for Bridge D10 - 5 Nos	35d	11-Dec-16	15-Jan-17	988d	Cal 2 - 7d Work w/ CNY & Stat. H	7 days / segment
Fab.T3.00220	Pier Segment for Bridge D8 - 5 Nos	35d	15-Jan-17	07-Mar-17	988d	Cal 2 - 7d Work w/ CNY & Stat. H	7 days / segment
Fab.T3.00290	Pier Segment for Bridge D9a - 5 Nos	35d	07-Mar-17	12-Apr-17	988d	Cal 2 - 7d Work w/ CNY & Stat. H	7 days / segment
Fab.T3.00280	Pier Segment for Bridge D10 - 5 Nos	35d	12-Apr-17	21-May-17	988d	Cal 2 - 7d Work w/ CNY & Stat. H	7 days / segment
Fab.T3.00230	Pier Segment for Bridge D13 - 6 Nos	42d	21-May-17	02-Jul-17	988d	Cal 2 - 7d Work w/ CNY & Stat. H	7 days / segment
Fab.T3.00200	Pier Segment for Bridge D11 - 3 Nos	21d	02-Jul-17	23-Jul-17	988d	Cal 2 - 7d Work w/ CNY & Stat. H	7 days / segment
Fab.T3.00240	Pier Segment for Bridge D12a - 4 Nos	28d	23-Jul-17	20-Aug-17	988d	Cal 2 - 7d Work w/ CNY & Stat. H	7 days / segment
Fab.T3.00250	Pier Segment for Bridge D15 - 1 Nos	7d	20-Aug-17	27-Aug-17	988d	Cal 2 - 7d Work w/ CNY & Stat. H	7 days / segment
Fab.T3.0060	Segment Fabrication for Bridge D12a (33-46) 14 nos.	28d	27-Aug-17	24-Sep-17	988d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
Fab.T2.0070	Segment Fabrication for Bridge D12a (18-31) 14 nos.	28d	24-Sep-17	23-Oct-17	988d	Cal 2 - 7d Work w/ CNY & Stat. H	2 days / segment
E&M Works and Building Services for Pump House and Switch Room (Design,Supply and Install)							
PROC.SC.1285	Detailed Design and Material/ Equipment Submisison &	200d	08-Apr-15 A	18-Oct-16	-13d	CAL 2 - 6 day	
PROC.SC.1287	Engineer's Review / Approval	24d	19-Oct-16	15-Nov-16	-13d	CAL 2 - 6 day	
PROC.SC.1290	Procurement and Manufacturing of Materials	180d	16-Nov-16	28-Jun-17	-13d	CAL 2 - 6 day	
PROC.SC.1300	Materials Delivery (first delivery)	0d	29-Jun-17		-13d	CAL 2 - 6 day	
PROC.SC.1310	Draft Operation and Maintenance (O&M) Manual	30d	09-Jun-17	14-Jul-17	-13d	CAL 2 - 6 day	
PROC.SC.1330	Draft Testing and Commissioning (T&C) Procedure	30d	09-Jun-17	15-Jul-17	-13d	CAL 2 - 6 day	
PROC.SC.1320	Engineer's Review on Draft O&M Manual	20d	15-Jul-17	07-Aug-17	-13d	CAL 2 - 6 day	
PROC.SC.1350	Engineer's Review on Draft T&C Procedure	20d	15-Jul-17	07-Aug-17	-13d	CAL 2 - 6 day	
PROC.SC.1340	Final T&C Procedure	20d	06-Sep-17	28-Sep-17	-13d	CAL 2 - 6 day	
PROC.SC.1360	Engineer's Approval on Final T&C Procedure	20d	29-Sep-17	24-Oct-17	-13d	CAL 2 - 6 day	
PROC.SC.2840	Final O&M Manual with as-fitted drawings	20d	23-May-18	14-Jun-18	-180d	CAL 2 - 6 day	
PROC.SC.2850	Engineer's Approval on Final O&M Manual with as-fitted drawings	20d	15-Jun-18	10-Jul-18	-180d	CAL 2 - 6 day	
Steel Structures for Sign Gantry / High Mast Structure & Other Signages							
PROC.MA.1990	Detailed Design / Material Submission	90d	08-Apr-15 A	07-Jan-17	-408d	CAL 2 - 6 day	
PROC.MA.1995	Engineer's Review / Approval	24d	07-Jan-17	08-Feb-17	-408d	CAL 2 - 6 day	
PROC.MA.2010	Manufacture of Steel Structures	180d	08-Feb-17	15-Sep-17	-408d	CAL 2 - 6 day	
PROC.MA.2020	Material Delivery (first delivery)	0d	15-Sep-17		-408d	CAL 2 - 6 day	
Roads and Bridge Lighting							
PROC.MA.2840	Lighting Arrangement Detailed Design / Material Submission and	72d	08-Apr-15 A	30-Nov-16	862d	CAL 2 - 6 day	
PROC.MA.2845	Engineer's Review / Approval	24d	30-Nov-16	30-Dec-16	862d	CAL 2 - 6 day	
PROC.MA.2850	Manufacture of Road and Bridge Lighting	220d	30-Dec-16	27-Sep-17	862d	CAL 2 - 6 day	
PROC.MA.2860	Material Delivery (first delivery)	0d	27-Sep-17		862d	CAL 2 - 6 day	
Irrigation System							
PROC.SC.1178	The Engineer confirm Landscape Works/ Irrigation Work (31 Dec	0d	06-Oct-16*		-225d	CAL 2 - 6 day	
PROC.SC.1180	Detailed Design / Material Submission	100d	06-Oct-16	07-Feb-17	-120d	CAL 2 - 6 day	
PROC.SC.1185	Engineer's Review / Approval	24d	08-Feb-17	07-Mar-17	-120d	CAL 2 - 6 day	
PROC.SC.1190	Procurement and Shipment of Irrigation Materials/Equipment	72d	08-Mar-17	07-Jun-17	-120d	CAL 2 - 6 day	
Soft Landscaping							
PROC.SC.2760	Propose Nursery for Landscape Materials	48d	06-Oct-16	01-Dec-16	-120d	CAL 2 - 6 day	
PROC.SC.2780	Joint Inspection and Engineer's approval	24d	02-Dec-16	31-Dec-16	-120d	CAL 2 - 6 day	
PROC.SC.2810	Materials Delivery (first delivery)	0d	02-Aug-17		-120d	CAL 2 - 6 day	
PROC.SC.2790	Landscape Materials Growing	224d	03-Jan-17	04-Oct-17	-120d	CAL 2 - 6 day	
Construction / Installation							
Initial Works / Site Establishment & Maintenance Works							

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Mobilisation and Site Establlishment							
CONS.A1.0120	Install Temporary Facilities / Hygiene Facilities	36d	13-Mar-15 A	02-Jul-15 A		CAL 2 - 6 day	
CONS.A1.0100	Site Possession / Access to Portion A1, A2, A5 & A6	0d	10-Aug-16 A			CAL 2 - 6 day	
CONS.A1.0110	Mobilisation, Site Clearing and Site Set-up	15d	10-Aug-16 A	26-Aug-16 A		CAL 2 - 6 day	
Gates and Haul Road Construction (as per Dwg. C00/1051B)							
CONS.B2.1010	Site Possession / Access to Portion B2 & B5	0d	29-Jul-16 A			CAL 2 - 6 day	
CONS.A1.1010	Site Possession / Access to Portion A1	0d	10-Aug-16 A			CAL 2 - 6 day	
CONS.B1.1010	Site Possession / Access to Portion B1	0d	06-Oct-16		1088d	CAL 2 - 6 day	
CONS.A1.1020	Survey/ Setting Out	6d	06-Oct-16	13-Oct-16	1133d	CAL 2 - 6 day	
CONS.B1.1020	Mobilisation, Site Survey and Setting Out	6d	06-Oct-16	13-Oct-16	1088d	CAL 2 - 6 day	
CONS.B2.1020	Site Survey / Setting out	6d	06-Oct-16	13-Oct-16	1106d	CAL 2 - 6 day	
CONS.A1.1030	Construct Gate 1 at Haul Road	14d	14-Oct-16	29-Oct-16	1133d	CAL 2 - 6 day	
CONS.B1.1030	Construct Gate 3 and Temporary Haul Road	22d	08-Oct-16	03-Nov-16	1088d	CAL 2 - 6 day	
CONS.B2.1030	Construct Temporary Haul Road	41d	04-Nov-16	21-Dec-16	1088d	CAL 2 - 6 day	
Preliminary Bored Pile with Additional Instrumentation Installation at Abutment A1101							
CONS.A1.0180	Commence Preliminary Bored Pile at Abutment A1101	0d	07-Jul-15 A			CAL 1 - 7 day	
CONS.A1.0190	Mobilise Plant & Set-up Support	5d	07-Jul-15 A	13-Jul-15 A		CAL 1 - 7 day	
CONS.A1.0195.10	Predrilling to Preliminary Bored Pile (D11)	10d	13-Jul-15 A	05-Aug-15 A		CAL 1 - 7 day	
CONS.A1.0195.20	GI Report and Verification / Agreement to Founding Level	8d	06-Aug-15 A	27-Aug-15 A		CAL 1 - 7 day	
CONS.A1.0200	Preliminary Bored Piling with Additional Instrumentation at	14d	28-Aug-15 A	06-Oct-16	1366d	CAL 1 - 7 day	1 no. x 14 days / 1 rig
CONS.A1.0210	Pile Curing	28d	06-Oct-16	03-Nov-16	1366d	CAL 1 - 7 day	
CONS.A1.0220	Pile Load Testing & Submit Report	28d	03-Nov-16	01-Dec-16	1366d	CAL 1 - 7 day	
Replacement Preliminary Bored Pile and Load Testing at Pier P908-P1							
CONS.A1.0195.70	Engineer's Representative confirmed the replacement bored	10d	13-Jul-15 A	05-Aug-15 A		CAL 1 - 7 day	
CONS.A1.0195.60	GI Report and Verification / Agreement to Founding Level	8d	06-Aug-15 A	27-Aug-15 A		CAL 1 - 7 day	
CONS.A1.0280	Commence Replacement Preliminary Bored Pile at	0d	22-Sep-15 A			CAL 1 - 7 day	
CONS.A1.0290	Mobilise Plant & Set-up Support	5d	16-Oct-15 A	27-Oct-15 A		CAL 1 - 7 day	
CONS.A1.0300	Replacement Preliminary Bored Piling - Pier P908	14d	27-Oct-15 A	23-Nov-15 A		CAL 1 - 7 day	1 no. x 14 days / 1 rig
CONS.A1.0310	Pile Curing	28d	14-Nov-15 A	13-Dec-15 A		CAL 1 - 7 day	
CONS.A1.0320	Pile Load Testing & Submit Report	28d	14-Dec-15 A	08-Jan-16 A		CAL 1 - 7 day	
Preliminary Bored Pile and Load Testing at Abutment A106							
CONS.C1.0400	Commence Preliminary Bored Pile at Abutment A106	0d	06-Oct-16		1422d	CAL 1 - 7 day	
CONS.C1.0410	Mobilise Plant & Set-up Support	8d	06-Oct-16	13-Oct-16	1344d	CAL 1 - 7 day	
CONS.C1.0415.10	Predrilling to Preliminary Bored Pile (D1)	10d	14-Oct-16	23-Oct-16	1396d	CAL 1 - 7 day	
CONS.C1.0420	Preliminary Bored Piling - Abutment A106 (1 no. 2000mm	14d	14-Oct-16	27-Oct-16	1344d	CAL 1 - 7 day	1 no. x 14 days / 1 rig
CONS.C1.0415.20	GI Report and Verification / Agreement to Founding Level	8d	24-Oct-16	31-Oct-16	1396d	CAL 1 - 7 day	
CONS.C1.0430	Pile Curing	28d	28-Oct-16	24-Nov-16	1344d	CAL 1 - 7 day	
CONS.C1.0440	Pile Load Testing and Submit Report	28d	25-Nov-16	22-Dec-16	1344d	CAL 1 - 7 day	
Prelimnary Driven H Piles and Load Testing							
CONS.C1.0510	Engineer select Preliminary Test Pile (Driven H Pile)	0d	25-Jul-16 A			CAL 2 - 6 day	
CONS.C1.0520	Mobilise Plant & Set-up Support	24d	25-Jul-16 A	26-Jul-16 A		CAL 2 - 6 day	
CONS.C1.0530.10	Pre-drilling (2 nos) (Sign Gantry - Preliminary Pile)	12d	26-Jul-16 A	05-Aug-16 A		CAL 2 - 6 day	2 nos x 5 days
CONS.C1.0530.20	GI Report and Verification / Agreement to Founding Level	24d	05-Aug-16 A	12-Aug-16 A		CAL 2 - 6 day	
CONS.C1.0540	Preliminary Driven H Pile (2 nos)	5d	12-Aug-16 A	27-Aug-16 A		CAL 2 - 6 day	2 nos x 2.5 days / Pile - 1 rig
CONS.C1.0550	Pile Load Testing and Submit Report	35d	27-Aug-16 A	14-Oct-16	-180d	CAL 2 - 6 day	
CONS.A1.4360	Test Pile approved, commence permanent driven h-pile	0d	15-Oct-16		1146d	CAL 2 - 6 day	
Preliminary Pre-Bored H-Pile and Load Testing							
CONS.A1.0240	Mobilise Plant & Set-up Support	5d	06-Jul-16 A	10-Jul-16 A		CAL 1 - 7 day	
CONS.A1.0195.30	Predrilling to Preliminary Pre-Bored H-Pile - 1 no.	2d	17-Aug-16 A	24-Aug-16 A		CAL 1 - 7 day	
CONS.A1.0250	Preliminary Pre-Bored H-Piling - 1 no.	6d	02-Sep-16 A	10-Sep-16 A		CAL 1 - 7 day	1 no. x 14 days / 1 rig
CONS.A1.0270	Pile Load Testing & Submit Report	11d	06-Sep-16 A	13-Sep-16 A		CAL 1 - 7 day	
CONS.A1.0230	Engineer select Preliminary Test Pile (Pre-Bored H-Pile)	0d	06-Oct-16		1422d	CAL 1 - 7 day	
CONS.A1.0195.40	GI Report and Verification / Agreement to Founding Level	8d	06-Oct-16	13-Oct-16	1414d	CAL 1 - 7 day	
Treatment for Bored Piling Excavated Materials							
CONS.EX.1010	Set-up Stockpile for Excavated Marine Mud	24d	06-Oct-16	03-Nov-16	632d	CAL 2 - 6 day	
CONS.EX.1020	Pilot Test for Marine Mud Treatment	30d	04-Nov-16	08-Dec-16	632d	CAL 2 - 6 day	
CONS.EX.1030	Solidification / Stabilisation / Approval Method	90d	09-Dec-16	30-Mar-17	632d	CAL 2 - 6 day	
CONS.EX.1040	Set-up Treatment Facilities and Storage Yard	48d	03-Mar-17	04-May-17	632d	CAL 2 - 6 day	
CONS.EX.1050	Full Scale Solidification / Stabilization Treatment and	220d	05-May-17	25-Jan-18	632d	CAL 2 - 6 day	
CONS.EX.1060	Decommissioning of Treatment Facilities	36d	26-Jan-18	12-Mar-18	632d	CAL 2 - 6 day	
Site Set Up at Portion C1							
CONS.C1.1010	Site Possession / Access to Portion C1 and C2	0d	06-Oct-16		-199d	CAL 2 - 6 day	
CONS.C1.1020	Site Possession / Access to Portion D1 and D3	0d	06-Oct-16		-199d	CAL 2 - 6 day	
CONS.C1.1030	Site Set-Up	30d	06-Oct-16	10-Nov-16	-199d	CAL 2 - 6 day	
Pump House cum Switch Room							
CONS.C1.5110	Commence Pump House Cum Switch Room (2B+ GF)	0d	02-Sep-16 A			CAL 2 - 6 day	

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CONS.C1.5120	Mobilisation / Survey/ Setting Out	15d	02-Sep-16 A	01-Oct-16 A		CAL 2 - 6 day	
CONS.C1.5125	Cofferdam - Sheet Piling	20d	06-Oct-16	29-Oct-16	-208d	CAL 2 - 6 day	
CONS.C1.5130	Install Dewatering Wells + Pump Test	12d	31-Oct-16	12-Nov-16	-208d	CAL 2 - 6 day	
CONS.C1.5140	ELS Works to Formation level (Basement 2)	30d	14-Nov-16	17-Dec-16	-208d	CAL 2 - 6 day	
CONS.C1.5150	Blinding, Waterproofing and Base Slab	36d	19-Dec-16	04-Feb-17	-208d	CAL 2 - 6 day	
CONS.C1.5160	Construct Walls and Slab to Upper Basement	36d	06-Feb-17	18-Mar-17	-208d	CAL 2 - 6 day	
CONS.C1.5170	Construct Walls and Slab to Ground Level	36d	20-Mar-17	06-May-17	-208d	CAL 2 - 6 day	
CONS.C1.5200	Construct Walls and Roof Slab	36d	08-May-17	19-Jun-17	-208d	CAL 2 - 6 day	Linked to KD6
CONS.C1.5205	ABWF & Building Service Works to Pump House / Switch Room	38d	20-Jun-17	03-Aug-17	-208d	CAL 2 - 6 day	
CONS.C1.5210	Achievement of Stage 5 (KD6) / Interface with C3	0d		03-Aug-17	-208d	CAL 2 - 6 day	
CONS.C1.5215	Pump House/ Switch Rm - Allow Access to Contract HY/2013/03	0d		03-Aug-17	-208d	CAL 2 - 6 day	
CONS.C1.5225	MEP installation for Pump House/Switch Room by C3	55d	04-Aug-17	09-Oct-17	-181d	CAL 2 - 6 day	
CONS.C1.5245	ABWF Works and External Works	55d	04-Aug-17	09-Oct-17	-181d	CAL 2 - 6 day	
CONS.C1.5255	E&M Equipment Installation	55d	04-Aug-17	09-Oct-17	-181d	CAL 2 - 6 day	
CONS.C1.5235	Testing and Commissioning and Statutory Permits / Certification	60d	10-Oct-17	19-Dec-17	-181d	CAL 2 - 6 day	
Box Culverts							
Box Culvert D - Cost Savings Design							
Contractors Design							
AD.A1.0110	Engineer's Review / Approval	19d	18-Feb-16 A	06-Oct-16	1153d	CAL 2 - 6 day	
AD.A1.0001	Approval in Principle for Cost Savings Design	0d	06-Oct-16		1141d	CAL 2 - 6 day	
AD.A1.0100	Detailed Design / Shop Drawings and Material Submission	11d	06-Oct-16	20-Oct-16	1141d	CAL 2 - 6 day	
Preliminary Driven Pile and Load Test							
AD.A1.0470.30	Predrilling (1 nos) (Box Culvert D)	5d	01-Apr-16 A	05-Apr-16 A		CAL 2 - 6 day	3 nos x 5 days / Pile - 3 rig
AD.A1.0510	Engineer advise Test Pile/ Preliminary Driven H Pile at Box	0d	06-Apr-16 A			CAL 2 - 6 day	
AD.A1.0470.40	GI Report and Verification / Agreement to Founding Level	8d	07-Apr-16 A	13-Apr-16 A		CAL 2 - 6 day	
AD.A1.0520	Mobilize Plant & Set-up Support	7d	08-Apr-16 A	18-Apr-16 A		CAL 2 - 6 day	
AD.A1.0530	Preliminary Driven H Pile (2 nos)	5d	18-Apr-16 A	21-May-16 A		CAL 2 - 6 day	2 nos x 2.5 days / Pile - 2 rig
AD.A1.0540	Pile Load Testing and Submit Report	28d	30-May-16 A	03-Jun-16 A		CAL 2 - 6 day	
Box Culvert D - 15 Bays							
AD.A1.1180	Mobilization and Plant Set Up	30d	08-Apr-16 A	18-Apr-16 A		CAL 2 - 6 day	
AD.A1.1170	Pile Testing	14d	27-May-16 A	03-Jun-16 A		CAL 2 - 6 day	1 no.
AD.A1.1055.30	Predrilling at Portion A1 (30 nos) (Box Culvert D)	30d	28-Oct-15 A	10-Sep-16 A		CAL 2 - 6 day	30 nos x 5d / 5 rigs
AD.A1.1120	Box Culvert D - Driven H-Pile Works	70d	21-Apr-16 A	14-Sep-16 A		CAL 2 - 6 day	122 nos x 2.5d / 7 rigs
AD.A1.1110	Access to Portion A1 (Interface with Contract 03)	0d	06-Oct-16		1153d	CAL 2 - 6 day	
AD.A1.1160	Survey / Setting Out	6d	06-Oct-16	13-Oct-16	1147d	CAL 2 - 6 day	
AD.A1.1055.40	GI Report and Verification / Agreement to Founding Level	38d	06-Oct-16	19-Nov-16	1115d	CAL 2 - 6 day	
AD.A1.1130	Install Dewatering Wells + Pump Test + Open Cut Excavation to	76d	12-Jul-16 A	16-Dec-16	-539d	CAL 2 - 6 day	
AD.A1.2250	Pile Trimming and Pile Caps (30 nos)	45d	11-Nov-16	06-Jan-17	-539d	CAL 2 - 6 day	30 Pilecaps x 6 days / 4WF
AD.A1.1095.30	Box Culvert - Base Slab, Wall & Top Slab - Part 1 (8 bays)	96d	02-Dec-16	31-Mar-17	-539d	CAL 2 - 6 day	8 bays (Base Slab 8d,Walls10d & Top Slab
AD.A1.1095.40	Box Culvert - Base Slab, Wall & Top Slab - Part 2 (7 bays)	84d	16-Dec-16	31-Mar-17	-539d	CAL 2 - 6 day	7 bays (Base Slab 8d,Walls10d & Top Slab
AD.A1.1150	Backfill / Reinstate and Connect UU and Road Works SOL101 and	60d	31-Mar-17	17-Jun-17	-539d	CAL 2 - 6 day	
Box Culvert D - 3 Bays and Outfall							
AD.B1.1180.30	Predrilling (6 nos) (Box Culvert D along Seawall Area)	15d	21-May-16 A	21-Sep-16 A		CAL 2 - 6 day	6 nos x 5 days / 2 rigs
AD.B1.1180.40	GI Report and Verification / Agreement to Founding Level	15d	31-May-16 A	30-Sep-16 A		CAL 2 - 6 day	
AD.B1.2330	Box Culvert D - Driven H Pile with Steel Plate	102d	11-Oct-16*	13-Feb-17	-226d	CAL 2 - 6 day	34 nos x 6 days / 2 (12 Welders & 2 Piling Rigs)
AD.B1.2410	Commence Works on Box Culvert Outfall	0d	27-Feb-17		-238d	CAL 2 - 6 day	
AD.B1.2380	Divert/Shift Haul Road (on top of completed box culvert)	12d	28-Feb-17	14-Mar-17	-238d	CAL 2 - 6 day	
AD.B1.2250	Remove Piling Platform	14d	14-Mar-17	30-Mar-17	-238d	CAL 2 - 6 day	
AD.B1.2260	Install Seawall Block & Rockfill near Seawall	20d	30-Mar-17	27-Apr-17	-238d	CAL 2 - 6 day	
AD.B1.2270	General Fill	14d	27-Apr-17	16-May-17	-238d	CAL 2 - 6 day	
AD.B1.2390	Sheet Piling Works	20d	16-May-17	09-Jun-17	-238d	CAL 2 - 6 day	
AD.B1.2400	Install Dewatering Wells and Carry Out Pumping Test	24d	09-Jun-17	08-Jul-17	-238d	CAL 2 - 6 day	
AD.B1.2280	ELS Works (2 levels of Strut)	36d	08-Jul-17	19-Aug-17	-238d	CAL 2 - 6 day	Soft Excavation 600m3 /100m3 / day + 2 levels
AD.B1.2235	Pile Trimming and Construction of Pile Caps	18d	19-Aug-17	09-Sep-17	-238d	CAL 2 - 6 day	6 pilecaps x 6 days / 2WF
AD.B1.2370	Construct Box Culvert Outfall & Connect Drainage	90d	09-Sep-17	29-Dec-17	-238d	CAL 2 - 6 day	3 bays (Base Slab 8d,Walls10d & Top Slab
AD.B1.2350	Backfill, Remove Seawall Blocks & Reinstate Rock Armour	50d	29-Dec-17	02-Mar-18	-238d	CAL 2 - 6 day	
AD.B1.2360	Complete Box Culvert D - based on CSD	0d		02-Mar-18	-238d	CAL 2 - 6 day	
MDN Application for Marine Plants							
CONS.OF.1010	Prepare Documents for Statutory Submission to Marine Department	60d	18-Apr-16 A	11-May-16 A		CAL 2 - 6 day	
CONS.OF.1020	MD Vetting, Site Inspection and Approval	60d	11-May-16 A	02-Dec-16	1104d	CAL 2 - 6 day	
CONS.OF.1030	Marine Department Issues Permit / Consent	0d		02-Dec-16	1104d	CAL 2 - 6 day	
Box Culvert C (Portion C1)							
Preliminary Driven Piles and Load Testing							
CONS.C1.0450	Commence Preliminary Driven H Pile at Box Culvert C	0d	06-Oct-16		-309d	CAL 2 - 6 day	
CONS.C1.0460	Mobilise Plant & Set-up Support	4d	06-Oct-16	11-Oct-16	-309d	CAL 2 - 6 day	
CONS.C1.0480	Preliminary Driven H Pile (4 nos)	10d	12-Oct-16	22-Oct-16	-309d	CAL 2 - 6 day	4 nos x 2.5 days / Pile - 1 rig

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Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
CONS.C1.0470.10	Predrilling (4 nos) (Box Culvert C)	20d	12-Oct-16	03-Nov-16	1121d	CAL 2 - 6 day	4 nos x 5 days / Pile - 1 rig
CONS.C1.0470.20	GI Report and Verification / Agreement to Founding Level	8d	04-Nov-16	12-Nov-16	1121d	CAL 2 - 6 day	
CONS.C1.0500	Pile Load Testing and Submit Report	35d	24-Oct-16	02-Dec-16	-224d	CAL 2 - 6 day	
Box Culvert C - Bay 4-8							
CONS.C1.1055.10	Predrilling (56 nos) (Box Culvert C)	47d	08-Jun-16 A	03-Nov-16	1124d	CAL 2 - 6 day	56 nos x 5 days / 6 Rig
CONS.C1.1040	Commence Box Culvert C at Portion C1	0d	05-Nov-16		-224d	CAL 2 - 6 day	
CONS.C1.1055.20	GI Report and Verification / Agreement to Founding Level	40d	06-Jul-16 A	09-Nov-16	1124d	CAL 2 - 6 day	
CONS.C1.1045	Survey / Setting Out	6d	05-Nov-16	11-Nov-16	1122d	CAL 2 - 6 day	
CONS.C1.1070	Excavate and Install Dewatering Wells+ Pump Test	47d	30-Nov-16	26-Jan-17	-309d	CAL 2 - 6 day	
CONS.C1.1060	Driven H Piling Works (56 nos x 6 days per Pile / 3 rigs)	112d	16-Nov-16	01-Apr-17	-309d	CAL 2 - 6 day	56 nos x 6 days / 3 Driving Rig
CONS.C1.1090	Pile Trimming and Construction of Pile Caps	72d	13-Jan-17	11-Apr-17	-309d	CAL 2 - 6 day	14 Pile Caps x 8 days / 2 Work fronts
CONS.C1.1100	Construct Box Culvert & Drainage Connection (5 bays)	72d	14-Feb-17	15-May-17	-309d	CAL 2 - 6 day	76m or 5 Bays
CONS.C1.1110	Backfill	57d	16-May-17	22-Jul-17	-309d	CAL 2 - 6 day	
Box Culvert C - Bay 1-3 and Outfall							
CONS.C1.1170.10	Predrilling (36 nos) (Box culvert area in C1, along the seawall)	45d	12-Jul-16 A	02-Nov-16	-227d	CAL 2 - 6 day	36 nos x 5 days / 4 rigs
CONS.C1.1170.20	GI Report and Verification / Agreement to Founding Level	45d	21-Aug-16 A	11-Nov-16	-163d	CAL 2 - 6 day	
CONS.C1.1120	Divert / Shift Haul Road to North	14d	16-Nov-16	01-Dec-16	1073d	CAL 2 - 6 day	
CONS.C1.1150	Remove Rock Armour	18d	02-Dec-16	22-Dec-16	1073d	CAL 2 - 6 day	
CONS.C1.1160	Construct Piling Plaform	14d	23-Dec-16	11-Jan-17	1073d	CAL 2 - 6 day	
CONS.C1.1180	Piling Driving Works - Driven H-Pile (36 nos)	54d	07-Dec-16	15-Feb-17	-227d	CAL 2 - 6 day	16 nos x 2.5 days + 20 x 6 / 3 rigs
CONS.C1.8480	Commence Box Culvert C Outfall	0d	27-Feb-17		-236d	CAL 2 - 6 day	
CONS.C1.8485	Divert /Shift Haul Road to North (on top of completed box culvert)	10d	27-Feb-17	09-Mar-17	-236d	CAL 2 - 6 day	
CONS.C1.8490	Remove Piling Platform	12d	10-Mar-17	23-Mar-17	-236d	CAL 2 - 6 day	
CONS.C1.8500	Seawall Block Installation near Seawall	18d	24-Mar-17	18-Apr-17	-236d	CAL 2 - 6 day	
CONS.C1.8510	General Fill	12d	19-Apr-17	04-May-17	-236d	CAL 2 - 6 day	
CONS.C1.8530	Sheet Piling	14d	05-May-17	20-May-17	-236d	CAL 2 - 6 day	
CONS.C1.8540	Dewatering Wells + Pump Test	24d	22-May-17	19-Jun-17	-236d	CAL 2 - 6 day	
CONS.C1.8550	ELS Works (2 layers of Strut)	36d	20-Jun-17	01-Aug-17	-236d	CAL 2 - 6 day	
CONS.C1.8560	Pile Trimming and Construction of Pile Caps (9 Pilecaps)	32d	02-Aug-17	07-Sep-17	-236d	CAL 2 - 6 day	9 Pile caps x 8 days / 2 WF
CONS.C1.8570	Construct Box Culvert + Outfall & Drainage Connection (38m or 3	90d	08-Sep-17	27-Dec-17	-236d	CAL 2 - 6 day	3 bays
CONS.C1.8580	Backfill & Remove Sea Wall Blocks and Reinstate Rock Armour	50d	28-Dec-17	28-Feb-18	-236d	CAL 2 - 6 day	
CONS.C1.8590	Complete Box Culvert C	0d		28-Feb-18	-236d	CAL 2 - 6 day	
Bridge Works							
Bridge D1 in Portion C1, D1 and D3 (Interface with Contract HY/2013/03)							
CONS.C1.2200.10	Predrilling (17 nos) (D1)	30d	01-Feb-16 A	30-Apr-16 A		CAL 2 - 6 day	17 nos x 5 days / 3 rigs
CONS.C1.2200.20	GI Report and Verification / Agreement to Founding Level	8d	01-May-16 A	11-May-16 A		CAL 2 - 6 day	
CONS.C1.1130	Access to Portion C1, D1 & D3	0d	06-Oct-16		-363d	CAL 2 - 6 day	
CONS.C1.1140	Survey / Setting Out	6d	06-Oct-16	13-Oct-16	1147d	CAL 2 - 6 day	
CONS.C1.2215	Pile Testing	60d	09-Nov-16	20-Jan-17	-363d	CAL 2 - 6 day	
CONS.C1.2210	D1 Bored Piling (18 nos. 1800-2000mm dia x 52m) (2 nos	90d	06-Oct-16	23-Jan-17	-363d	CAL 2 - 6 day	2 x 18 days and 16 nos x 14 days / 4 rigs
CONS.C1.9000	Pile Cap (P508)	18d	04-Jan-17	24-Jan-17	-363d	CAL 2 - 6 day	8 days
CONS.C1.2220	Pile Trimming	60d	26-Nov-16	10-Feb-17	-363d	CAL 2 - 6 day	
CONS.C1.8980	Pile Cap (P101)	18d	19-Jan-17	11-Feb-17	-146d	CAL 2 - 6 day	12 days
CONS.C1.9010	Pile Cap (P102)	18d	07-Feb-17	27-Feb-17	-146d	CAL 2 - 6 day	12 days
CONS.C1.2100	Pier Columns (P508)	12d	04-Mar-17	17-Mar-17	-363d	CAL 2 - 6 day	12 days
CONS.C1.8950	Pile Cap (P103)	18d	06-Mar-17	25-Mar-17	-146d	CAL 2 - 6 day	8 days
CONS.C1.2200	Pier Head (P508)	12d	18-Mar-17	31-Mar-17	-363d	CAL 2 - 6 day	12 days
CONS.C1.2299	Pier Columns (P101)	12d	20-Mar-17	01-Apr-17	959d	CAL 2 - 6 day	12 days
CONS.C1.8960	Pile Cap (P104)	18d	21-Mar-17	11-Apr-17	-146d	CAL 2 - 6 day	8 days
CONS.C1.8850	Pier Columns (P102)	12d	03-Apr-17	20-Apr-17	971d	CAL 2 - 6 day	12 days
CONS.C1.9020	Pier Head & Bearing (P101)	12d	03-Apr-17	20-Apr-17	959d	CAL 2 - 6 day	12 days
CONS.C1.8860	Pier Columns (P103)	12d	21-Apr-17	06-May-17	971d	CAL 2 - 6 day	12 days
CONS.C1.9030	Pier Head & Bearing (P102)	12d	21-Apr-17	06-May-17	959d	CAL 2 - 6 day	12 days
CONS.C1.8970	Pile Cap (P105)	18d	12-Apr-17	08-May-17	-146d	CAL 2 - 6 day	8 days
CONS.C1.8990	Pile Cap (A106)	18d	19-Apr-17	11-May-17	-146d	CAL 2 - 6 day	10 days
CONS.C1.2225.30	Bearing Installation, Final Inspection and Handover	34d	01-Apr-17	17-May-17	-288d	CAL 2 - 6 day	
CONS.C1.2226	Achievement of KD4 (465)	0d		17-May-17	-288d	CAL 2 - 6 day	
CONS.C1.8870	Pier Columns (P104)	12d	08-May-17	20-May-17	971d	CAL 2 - 6 day	12 days
CONS.C1.9040	Pier Head & Bearing (P103)	12d	08-May-17	20-May-17	959d	CAL 2 - 6 day	12 days
CONS.C1.8880	Pier Columns (P105)	12d	09-May-17	22-May-17	958d	CAL 2 - 6 day	12 days
CONS.C1.9050	Pier Head & Bearing (P104)	12d	22-May-17	05-Jun-17	959d	CAL 2 - 6 day	12 days
CONS.C1.9060	Pier Head & Bearing (P105)	12d	23-May-17	06-Jun-17	958d	CAL 2 - 6 day	12 days
CONS.C1.2230	Construct Abutment A106	30d	12-May-17	16-Jun-17	-146d	CAL 2 - 6 day	1 no
CONS.C1.2250	Bridge D1 - Erect Precast Segments + Stitching + Stressing	48d	18-Jul-17	11-Sep-17	-447d	CAL 2 - 6 day	96 segments, 6 spans x 8 days / span
CONS.C1.2265	D1 Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge	48d	26-Oct-17	21-Dec-17	-180d	CAL 2 - 6 day	288m / 4 moulds @ 5 days cycle / 10m bay
CONS.C1.2260	D1 Bridge Ancillary - Parapet/TCSS, Railing, MJ,	48d	26-Oct-17	21-Dec-17	-398d	CAL 2 - 6 day	288m / 3 moulds @ 5 days cycle / 10m bay

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Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
CONS.C1.2280	Completion of Bridge D1	0d		02-Jan-18	-190d	CAL 2 - 6 day	
CONS.C1.2270	D1 Final Asphalt Paving + Road Markings	12d	16-Dec-17	02-Jan-18	-190d	CAL 2 - 6 day	
RW1 (51m / 4 bays)							
CONS.C2.3140	Commence RW1 Retaining Wall	0d	06-Jul-17		-161d	CAL 2 - 6 day	
CONS.C2.3150	Survey / Setting Out	6d	06-Jul-17	12-Jul-17	-161d	CAL 2 - 6 day	
CONS.C2.3160	Excavate to formation level (open cut / slope)	20d	13-Jul-17	04-Aug-17	-161d	CAL 2 - 6 day	
CONS.C2.3170	Cast Base & Wall Stem 4 bays (ribbed finish to 1m below F.G.L)	48d	27-Jul-17	20-Sep-17	-161d	CAL 2 - 6 day	4 bays x 12 days
CONS.C2.3180	Backfill to final ground level and Reinstate Roads	30d	21-Sep-17	27-Oct-17	-161d	CAL 2 - 6 day	
CONS.C2.3250	Install Railing for RW1 and RW1a	24d	30-Oct-17	25-Nov-17	-161d	CAL 2 - 6 day	
RW1a (176m / 11 bays)							
CONS.C2.3200	Commence RW1a Retaining Wall	0d	05-Nov-16		-224d	CAL 2 - 6 day	
CONS.C2.3210	Survey / Setting Out	6d	05-Nov-16	11-Nov-16	-224d	CAL 2 - 6 day	
CONS.C2.3220	Excavate to formation level (open cut / slope) - Bay 4 to Bay 11	45d	12-Nov-16	06-Jan-17	-224d	CAL 2 - 6 day	
CONS.C2.3230	Cast Base & Wall Stem (ribbed finish to 1m below F.G.L) - Bay 4	48d	10-Dec-16	10-Feb-17	-224d	CAL 2 - 6 day	8 bays x 12 days / 2 WF
CONS.C2.3240	Backfill to final ground level and Reinstate Roads - Bay 4 to Bay 11	48d	25-Jan-17	24-Mar-17	-224d	CAL 2 - 6 day	
CONS.C2.3370	Excavate to formation level (open cut / slope) - Bay 1 to Bay 3	15d	12-Jul-17	28-Jul-17	-309d	CAL 2 - 6 day	
CONS.C2.3380	Cast Base & Wall Stem (ribbed finish to 1m below F.G.L) - Bay 1	18d	26-Jul-17	15-Aug-17	-309d	CAL 2 - 6 day	3 bays x 12 days / 2 WF
CONS.C2.3390	Backfill to final ground level and Reinstate Roads - Bay 1 to Bay 3	18d	16-Aug-17	05-Sep-17	-309d	CAL 2 - 6 day	
Bridge D8							
CONS.C1.2285	Site Possession / Access to Portion C1	0d	06-Oct-16		1148d	CAL 2 - 6 day	
CONS.C1.2288	Survey / Setting Out	5d	06-Oct-16	12-Oct-16	1148d	CAL 2 - 6 day	
CONS.C1.2290.10	Predrilling (10 nos) (D8)	25d	15-Oct-15 A	24-Oct-16	1130d	CAL 2 - 6 day	10 nos x 5 days / 2 rigs
CONS.C1.2290.20	GI Report and Verification / Agreement to Founding Level	8d	25-Oct-16	02-Nov-16	1130d	CAL 2 - 6 day	
CONS.C1.2300	D8 Bored Piling (10 nos.2000mm dia x 52m)	80d	04-May-16 A	10-Dec-16	-367d	CAL 2 - 6 day	10 nos x 14 days / 2 rigs
CONS.C1.8910	Pile Cap (P805)	18d	05-Dec-16	24-Dec-16	-367d	CAL 2 - 6 day	8 days
CONS.C2.3460	Pile Cap (P803)	18d	08-Dec-16	30-Dec-16	-351d	CAL 2 - 6 day	10 days
CONS.C1.2322	Pier Columns (P805)	12d	20-Dec-16	05-Jan-17	-367d	CAL 2 - 6 day	12 days
CONS.C1.8920	Pile Cap (P804)	18d	14-Dec-16	06-Jan-17	-362d	CAL 2 - 6 day	8 days
CONS.C1.2305	Pile Testing	70d	24-Oct-16	16-Jan-17	-367d	CAL 2 - 6 day	
CONS.C1.8820	Pier Columns (P804)	12d	06-Jan-17	19-Jan-17	-367d	CAL 2 - 6 day	12 days
CONS.C1.9070	Pier Head & Bearing (P805)	12d	06-Jan-17	19-Jan-17	-367d	CAL 2 - 6 day	12 days
CONS.C1.2310	Pile Trimming	48d	25-Nov-16	23-Jan-17	-367d	CAL 2 - 6 day	
CONS.C1.8930	Pile Cap (P802)	18d	07-Jan-17	27-Jan-17	-362d	CAL 2 - 6 day	8 days
CONS.C1.8830	Pier Columns (P803)	12d	20-Jan-17	06-Feb-17	-367d	CAL 2 - 6 day	12 days
CONS.C1.9080	Pier Head & Bearing (P804)	12d	20-Jan-17	06-Feb-17	-367d	CAL 2 - 6 day	12 days
CONS.C1.9090	Pier Head & Bearing (P803)	12d	07-Feb-17	20-Feb-17	-367d	CAL 2 - 6 day	12 days
CONS.C2.3420	Pier Columns (P802)	12d	07-Feb-17	20-Feb-17	-367d	CAL 2 - 6 day	12d
CONS.C1.2320	Construct Abutment A801	30d	13-Jan-17	20-Feb-17	1042d	CAL 2 - 6 day	1 no
CONS.C1.8900	Pile Cap (A801)	18d	01-Feb-17	21-Feb-17	1041d	CAL 2 - 6 day	8 days
CONS.C2.3490	Pier Head & Bearing (P802)	12d	21-Feb-17	06-Mar-17	-367d	CAL 2 - 6 day	12d
CONS.C1.2340	Bridge D8 - Erect Precast Segments + Stitching + Stressing	32d	11-May-17	17-Jun-17	-447d	CAL 2 - 6 day	62 Segments, 4 spans x 8 days / span
CONS.C1.2350	D8 Bridge Ancillary - Parapet/TCSS, Railing, MJ,	32d	18-Jul-17	23-Aug-17	-298d	CAL 2 - 6 day	186m / 3 moulds @ 5 days cycle / 10m bay
CONS.C1.2355	D8 Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge	46d	24-Aug-17	18-Oct-17	-141d	CAL 2 - 6 day	186m / 2 moulds @ 5 days cycle / 10m bay
CONS.C1.2360	D8 Final Asphalt Paving + Road Markings	12d	19-Oct-17	02-Nov-17	-141d	CAL 2 - 6 day	
CONS.C1.2370	Completion of Bridge D8	0d		02-Nov-17	-141d	CAL 2 - 6 day	
RW8 (35m / 3 bays)							
CONS.C2.3320	Commence RW8 Retaining Wall	0d	08-Aug-17		-183d	CAL 2 - 6 day	
CONS.C2.3330	Survey / Setting Out	5d	08-Aug-17	12-Aug-17	-183d	CAL 2 - 6 day	
CONS.C2.3340	Excavate to formation level (open cut / slope)	12d	14-Aug-17	26-Aug-17	-183d	CAL 2 - 6 day	
CONS.C2.3350	Cast Base & Wall Stem 3 bays (ribbed finish to 1m below F.G.L)	36d	28-Aug-17	10-Oct-17	-183d	CAL 2 - 6 day	3 bays x 12 days
CONS.C2.3360	Backfill to final ground level & Reinstate Road	16d	11-Oct-17	30-Oct-17	-150d	CAL 2 - 6 day	
Bridge D9a in Portion A1 & A5							
CONS.A5.2020.10	Predrilling - Portion A1 & A5 (12 nos) (D9a)	30d	05-Sep-15 A	09-Oct-15 A		CAL 2 - 6 day	12 nos x 5d / 2 rigs
CONS.A5.2020.20	GI Report and Verification / Agreement to Founding Level	7d	09-Oct-15 A	16-Oct-15 A		CAL 2 - 6 day	
CONS.A5.2030	D9a Bored Piling (12 nos.1800-2200mm dia x 47m)	56d	24-Feb-16 A	17-Jun-16 A		CAL 2 - 6 day	12 nos x 14 d / 3 rigs
CONS.A5.2035	Pile Testing	56d	07-Jun-16 A	15-Aug-16 A		CAL 2 - 6 day	
CONS.A5.2040	Pile Trimming	50d	14-Jun-16 A	19-Aug-16 A		CAL 2 - 6 day	2 pile caps
CONS.A5.2010	Site Possession / Access to Portion A1 & A5 (61 days)	0d	06-Oct-16		1146d	CAL 2 - 6 day	
CONS.A5.2150	Pile Caps (P905)	30d	27-Aug-16 A	07-Oct-16	-418d	CAL 2 - 6 day	
CONS.A5.2015	Suvey / Setting out	7d	06-Oct-16	14-Oct-16	1146d	CAL 2 - 6 day	
CONS.A5.2140	Pile Caps (P904)	30d	27-Aug-16 A	20-Oct-16	-413d	CAL 2 - 6 day	
CONS.A5.2110	Pier Columns (P904 & P906)	12d	08-Nov-16	21-Nov-16	-413d	CAL 2 - 6 day	12d
CONS.A5.2090	Pier Columns (P905 & P907)	12d	12-Nov-16	26-Nov-16	-418d	CAL 2 - 6 day	12d
CONS.A5.2180	Pier Head & Bearing (P904 & P906)	12d	22-Nov-16	05-Dec-16	-413d	CAL 2 - 6 day	12d
CONS.A5.2160	Pier Head & Bearing (P905 & P907)	12d	26-Nov-16	10-Dec-16	-418d	CAL 2 - 6 day	12d
CONS.A5.2065	Bridge D9a - Erect Precast Segments + Stitching + Stressing	32d	14-Mar-17	24-Apr-17	-491d	CAL 2 - 6 day	58 Segments, 4 Spans x 8 days / span

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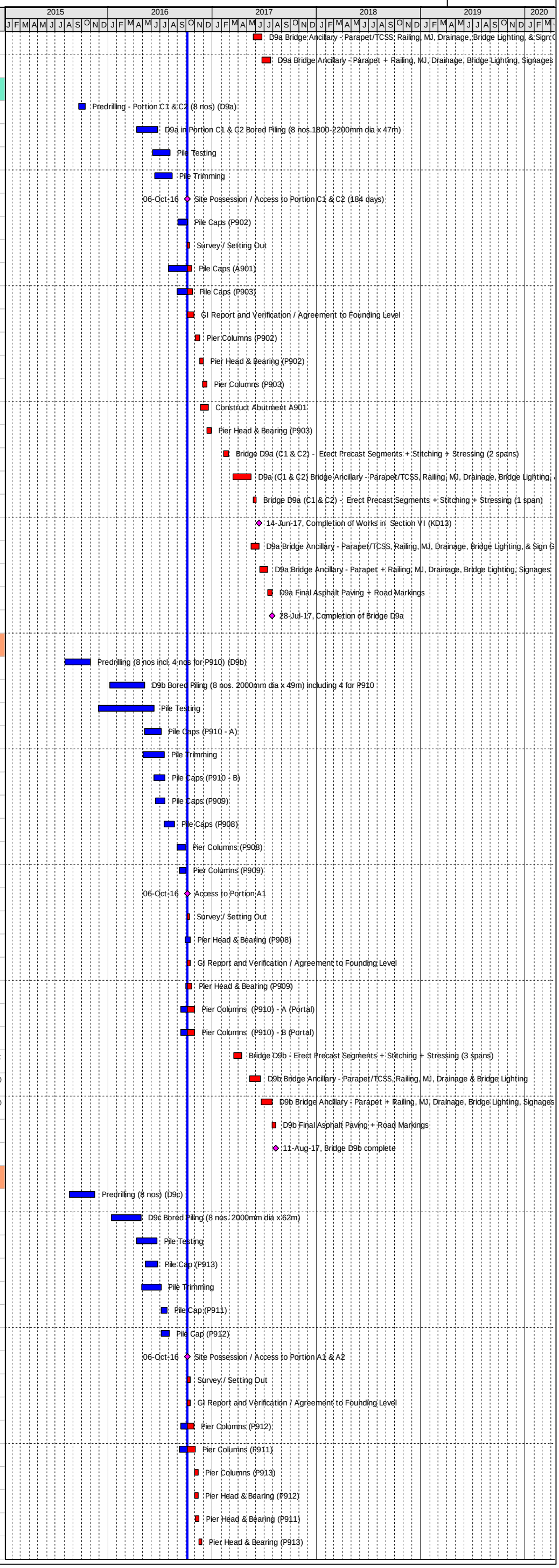
Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
CONS.A5.2070	D9a Bridge Ancillary - Parapet/TCSS, Railing, MJ,	25d	25-May-17	23-Jun-17	-247d	CAL 2 - 6 day	85m / 2 moulds @ 5 days cycle / 10m bay
CONS.A5.2080	D9a Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge	25d	24-Jun-17	24-Jul-17	918d	CAL 2 - 6 day	85m / 2 moulds @ 5 days cycle / 10m bay
Bridge D9a in Portion C1 & C2							
CONS.C2.3020.10	Predrilling - Portion C1 & C2 (8 nos) (D9a)	20d	21-Sep-15 A	14-Oct-15 A		CAL 2 - 6 day	8 nos x 5d / 2 rigs
CONS.C2.3030	D9a in Portion C1 & C2 Bored Piling (8 nos.1800-2200mm dia x	40d	11-Apr-16 A	23-Jun-16 A		CAL 2 - 6 day	8 nos x 14 d / 2 rigs
CONS.C2.3035	Pile Testing	56d	07-Jun-16 A	05-Aug-16 A		CAL 2 - 6 day	
CONS.C2.3040	Pile Trimming	36d	14-Jun-16 A	13-Aug-16 A		CAL 2 - 6 day	
CONS.C2.3010	Site Possession / Access to Portion C1 & C2 (184 days)	0d	06-Oct-16		1147d	CAL 2 - 6 day	
CONS.C2.3440	Pile Caps (P902)	30d	02-Sep-16 A	06-Oct-16	-438d	CAL 2 - 6 day	
CONS.C2.3015	Survey / Setting Out	6d	06-Oct-16	13-Oct-16	1147d	CAL 2 - 6 day	
CONS.C2.3560	Pile Caps (A901)	40d	01-Aug-16 A	20-Oct-16	-452d	CAL 2 - 6 day	
CONS.C2.3450	Pile Caps (P903)	30d	01-Sep-16 A	24-Oct-16	-325d	CAL 2 - 6 day	
CONS.C2.3020.20	GI Report and Verification / Agreement to Founding Level	20d	06-Oct-16	29-Oct-16	1133d	CAL 2 - 6 day	
CONS.C2.3400	Pier Columns (P902)	12d	03-Nov-16	17-Nov-16	-438d	CAL 2 - 6 day	12d
CONS.C2.3470	Pier Head & Bearing (P902)	12d	17-Nov-16	01-Dec-16	-438d	CAL 2 - 6 day	12d
CONS.C2.3410	Pier Columns (P903)	12d	29-Nov-16	12-Dec-16	-325d	CAL 2 - 6 day	12d
CONS.C2.3070	Construct Abutment A901	25d	19-Nov-16	17-Dec-16	-452d	CAL 2 - 6 day	1 no
CONS.C2.3480	Pier Head & Bearing (P903)	12d	13-Dec-16	28-Dec-16	-325d	CAL 2 - 6 day	12d
CONS.C2.3080	Bridge D9a (C1 & C2) - Erect Precast Segments + Stitching +	16d	09-Feb-17	27-Feb-17	-491d	CAL 2 - 6 day	30 segments, 2 spans, A901-P903 x 8 days /
CONS.C2.3085	D9a (C1 & C2) Bridge Ancillary - Parapet/TCSS, Railing, MJ,	48d	14-Mar-17	15-May-17	-290d	CAL 2 - 6 day	87.5m / 2 Steel Mould @ 5 days cycle / 10m bay
CONS.C2.3100	Bridge D9a (C1 & C2) - Erect Precast Segments + Stitching +	8d	25-May-17	03-Jun-17	-491d	CAL 2 - 6 day	16 segments, 1 span, P903-P805 x 8 days
CONS.C2.3095	Completion of Works in Section VI (KD13)	0d		14-Jun-17	-290d	CAL 2 - 6 day	
CONS.C2.3110	D9a Bridge Ancillary - Parapet/TCSS, Railing, MJ,	25d	16-May-17	14-Jun-17	-290d	CAL 2 - 6 day	46m / 1 Steel Moulds @ 5 days cylce / 10m bay
CONS.C2.3115	D9a Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge	25d	15-Jun-17	14-Jul-17	-61d	CAL 2 - 6 day	46m / 1 Steel Moulds @ 5 days cylce / 10m bay
CONS.C2.3120	D9a Final Asphalt Paving + Road Markings	12d	15-Jul-17	28-Jul-17	-61d	CAL 2 - 6 day	
CONS.C2.3130	Completion of Bridge D9a	0d		28-Jul-17	-61d	CAL 2 - 6 day	
Bridge D9b							
CONS.A1.1110.10	Predrilling (8 nos incl. 4 nos for P910) (D9b)	20d	04-Aug-15 A	31-Oct-15 A		CAL 2 - 6 day	8 nos x 5 days / 2 rig
CONS.A1.1120	D9b Bored Piling (8 nos. 2000mm dia x 49m) including 4 for P910	56d	09-Jan-16 A	09-May-16 A		CAL 2 - 6 day	8 nos x 14 days / 2 rig
CONS.A1.1125	Pile Testing	56d	30-Nov-15 A	11-Jun-16 A		CAL 2 - 6 day	
CONS.A1.9250	Pile Caps (P910 - A)	13d	10-May-16 A	07-Jul-16 A		CAL 2 - 6 day	
CONS.A1.1130	Pile Trimming	38d	03-May-16 A	17-Jul-16 A		CAL 2 - 6 day	4 nos x 8d + 6d Trimming
CONS.A1.9260	Pile Caps (P910 - B)	13d	11-Jun-16 A	20-Jul-16 A		CAL 2 - 6 day	
CONS.A1.9240	Pile Caps (P909)	13d	16-Jun-16 A	20-Jul-16 A		CAL 2 - 6 day	
CONS.A1.9230	Pile Caps (P908)	13d	17-Jul-16 A	20-Aug-16 A		CAL 2 - 6 day	
CONS.A1.8750	Pier Columns (P908)	12d	01-Sep-16 A	28-Sep-16 A		CAL 2 - 6 day	12 days
CONS.A1.8760	Pier Columns (P909)	12d	08-Sep-16 A	30-Sep-16 A		CAL 2 - 6 day	12 days
CONS.A1.1105	Access to Portion A1	0d	06-Oct-16		1147d	CAL 2 - 6 day	
CONS.A1.1108	Survey / Setting Out	6d	06-Oct-16	13-Oct-16	1147d	CAL 2 - 6 day	
CONS.A1.9270	Pier Head & Bearing (P908)	12d	29-Sep-16 A	14-Oct-16 A		CAL 2 - 6 day	12 days
CONS.A1.1110.20	GI Report and Verification / Agreement to Founding Level	8d	06-Oct-16	15-Oct-16	1145d	CAL 2 - 6 day	
CONS.A1.9280	Pier Head & Bearing (P909)	12d	30-Sep-16 A	20-Oct-16	-451d	CAL 2 - 6 day	12 days
CONS.A1.8770	Pier Columns (P910) - A (Portal)	30d	13-Sep-16 A	31-Oct-16	-278d	CAL 2 - 6 day	
CONS.A1.8780	Pier Columns (P910) - B (Portal)	30d	13-Sep-16 A	31-Oct-16	-507d	CAL 2 - 6 day	
CONS.A1.1160	Bridge D9b - Erect Precast Segments + Stitching + Stressing	24d	16-Mar-17	13-Apr-17	-571d	CAL 2 - 6 day	44 Segments, 3 spans x 8 days / span
CONS.A1.1170	D9b Bridge Ancillary - Parapet/TCSS, Railing, MJ,	33d	11-May-17	19-Jun-17	-243d	CAL 2 - 6 day	132m / 2 steel moulds @ 5 days cycle / 10m bay
CONS.A1.1175	D9b Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge	33d	20-Jun-17	28-Jul-17	-73d	CAL 2 - 6 day	132m / 2 steel moulds @ 5 days cycle / 10m bay
CONS.A1.1180	D9b Final Asphalt Paving + Road Markings	12d	29-Jul-17	11-Aug-17	-73d	CAL 2 - 6 day	
CONS.A1.1190	Bridge D9b complete	0d		11-Aug-17	-73d	CAL 2 - 6 day	
Bridge D9c							
CONS.A1.1200.10	Predrilling (8 nos) (D9c)	20d	20-Aug-15 A	16-Nov-15 A		CAL 2 - 6 day	8 nos x 5 days / 2 rigs
CONS.A1.1210	D9c Bored Piling (8 nos. 2000mm dia x 62m)	56d	13-Jan-16 A	27-Apr-16 A		CAL 2 - 6 day	8 nos x 14 days / 2 rigs
CONS.A1.1215	Pile Testing	56d	12-Apr-16 A	21-Jun-16 A		CAL 2 - 6 day	
CONS.A1.9190	Pile Cap (P913)	13d	12-May-16 A	25-Jun-16 A		CAL 2 - 6 day	
CONS.A1.1220	Pile Trimming	36d	30-Apr-16 A	07-Jul-16 A		CAL 2 - 6 day	
CONS.A1.9210	Pile Cap (P911)	25d	07-Jul-16 A	28-Jul-16 A		CAL 2 - 6 day	
CONS.A1.9200	Pile Cap (P912)	25d	06-Jul-16 A	04-Aug-16 A		CAL 2 - 6 day	
CONS.A1.1192	Site Possession / Access to Portion A1 & A2	0d	06-Oct-16		1146d	CAL 2 - 6 day	
CONS.A1.1194	Survey / Setting Out	7d	06-Oct-16	14-Oct-16	1146d	CAL 2 - 6 day	
CONS.A1.1200.20	GI Report and Verification / Agreement to Founding Level	8d	06-Oct-16	15-Oct-16	1145d	CAL 2 - 6 day	
CONS.A1.8800	Pier Columns (P912)	20d	14-Sep-16 A	29-Oct-16	1109d	CAL 2 - 6 day	12 days
CONS.A1.8810	Pier Columns (P911)	22d	09-Sep-16 A	01-Nov-16	-291d	CAL 2 - 6 day	12 days
CONS.A1.8790	Pier Columns (P913)	12d	31-Oct-16	12-Nov-16	1109d	CAL 2 - 6 day	12 days
CONS.A1.9320	Pier Head & Bearing (P912)	12d	31-Oct-16	12-Nov-16	1121d	CAL 2 - 6 day	12 days
CONS.A1.9330	Pier Head & Bearing (P911)	12d	02-Nov-16	15-Nov-16	-291d	CAL 2 - 6 day	12 days
CONS.A1.9310	Pier Head & Bearing (P913)	12d	14-Nov-16	26-Nov-16	1109d	CAL 2 - 6 day	12 days



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Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
CONS.A1.1240	Bridge D9c - Construct Deck (Cast in Situ) (1 span, P910 to P911)	36d	06-Jul-17	16-Aug-17	-476d	CAL 2 - 6 day	1 span (cast in-situ)
CONS.A1.1250	Bridge D9c - Erect Precast Segments Pier P911 to Pier P913	16d	26-Oct-17	14-Nov-17	-447d	CAL 2 - 6 day	28 segments, 2 spans x 8 days / span
CONS.A1.1260	D9c Bridge Ancillary - Parapet/TCSS, Railing, MJ,	32d	29-Nov-17	08-Jan-18	-410d	CAL 2 - 6 day	126m / 2 Steel moulds @ 7 day cycle/ 10m bay
CONS.A1.1270	D9c Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge	32d	09-Jan-18	14-Feb-18	-220d	CAL 2 - 6 day	126m / 2 Steel moulds @ 7 day cycle/ 10m bay
Bridge D9c in Portion A3 (Interface with Contract HY/2012/07)							
CONS.A3.1010	Site Possession / Access to Portion A3	0d	06-Oct-16		-118d	CAL 2 - 6 day	
CONS.A3.1020	Mob/ Survey / Setting Out	12d	06-Oct-16	20-Oct-16	-118d	CAL 2 - 6 day	
CONS.A3.1030	Bridge D9c (A3) - Erect Precast Segments Pier P913 to Contract	8d	29-Nov-17	07-Dec-17	-447d	CAL 2 - 6 day	14 segments, 1 span x 8 days
CONS.A3.1040	D9c Bridge Ancillary - Parapet/TCSS, Railing, MJ,	35d	09-Jan-18	21-Feb-18	-398d	CAL 2 - 6 day	41m 1 Steel Moulds @ 5 days cycle / 10m bay
CONS.A3.1045	D9c Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge	35d	22-Feb-18	07-Apr-18	-398d	CAL 2 - 6 day	41m 1 Steel Moulds @ 5 days cycle / 10m bay
CONS.A3.1050	D9c Final Asphalt Paving + Road Markings	21d	09-Apr-18	03-May-18	-398d	CAL 2 - 6 day	
CONS.A3.1060	Completion of Works in Stage 1B (KD2)	0d		03-May-18	-398d	CAL 2 - 6 day	
Bridge D10							
CONS.A1.1290.10	Predrilling (14 nos) (D10)	35d	05-Aug-15 A	07-Nov-15 A		CAL 2 - 6 day	14 nos x 5d / 2 rigs
CONS.A1.1300	D10 Bored Piling (14 nos 1800-2200mm dia x 57m) (42m	66d	12-Jan-16 A	06-May-16 A		CAL 2 - 6 day	14 nos x 14 days / 3 rigs
CONS.A1.9110	Pile Caps (P1008)	13d	03-Jun-16 A	12-Jul-16 A		CAL 2 - 6 day	
CONS.A1.10120	Pile Caps (A1004)	13d	03-Jun-16 A	12-Jul-16 A		CAL 2 - 6 day	
CONS.A1.1305	Pile Testing	66d	02-Jun-16 A	17-Aug-16 A		CAL 2 - 6 day	
CONS.A1.9140	Pile Caps (P1002)	13d	14-Jul-16 A	06-Sep-16 A		CAL 2 - 6 day	
CONS.A1.1284	Site Possession / Access to Portion A1	0d	06-Oct-16		1147d	CAL 2 - 6 day	
CONS.A1.1286	Survey / Setting Out	6d	06-Oct-16	13-Oct-16	1147d	CAL 2 - 6 day	
CONS.A1.1290.20	GI Report and Verification / Agreement to Founding Level	8d	06-Oct-16	15-Oct-16	1145d	CAL 2 - 6 day	
CONS.A1.9120	Pile Caps (P1003)	30d	21-Sep-16 A	20-Oct-16	1102d	CAL 2 - 6 day	
CONS.A1.9130	Pile Caps (P1007)	30d	21-Sep-16 A	20-Oct-16	1141d	CAL 2 - 6 day	
CONS.A1.1310	Pile Trimming	50d	04-Jun-16 A	21-Oct-16	-480d	CAL 2 - 6 day	
CONS.A1.9160	Pile Caps (P1001)	18d	06-Oct-16	27-Oct-16	-438d	CAL 2 - 6 day	
CONS.A1.8850	Pier Columns (P1008)	12d	10-Nov-16	23-Nov-16	-464d	CAL 2 - 6 day	
CONS.A1.9370	Pier Head & Bearing (P1008)	12d	24-Nov-16	07-Dec-16	-434d	CAL 2 - 6 day	
CONS.A1.8860	Pier Columns (P1001 & P1005)	12d	28-Nov-16	10-Dec-16	-464d	CAL 2 - 6 day	
CONS.A1.8840	Pier Columns (P1002 & P1006)	12d	01-Dec-16	14-Dec-16	-464d	CAL 2 - 6 day	
CONS.A1.9400	Pier Head & Bearing (P1001 & 1005)	12d	12-Dec-16	24-Dec-16	-449d	CAL 2 - 6 day	
CONS.A1.8870	Pier Columns (P1007)	12d	15-Dec-16	30-Dec-16	-464d	CAL 2 - 6 day	
CONS.A1.9380	Pier Head & Bearing (P1002 & P1006)	12d	15-Dec-16	30-Dec-16	-452d	CAL 2 - 6 day	
CONS.A1.8830	Pier Columns (P1003)	12d	23-Dec-16	09-Jan-17	1058d	CAL 2 - 6 day	
CONS.A1.9360	Pier Head & Bearing (P1007)	12d	31-Dec-16	14-Jan-17	-464d	CAL 2 - 6 day	
CONS.A1.9350	Pier Head & Bearing (P1003)	12d	16-Jan-17	01-Feb-17	1058d	CAL 2 - 6 day	
CONS.A1.1315	Construct Abutment A1004	36d	20-Dec-16	06-Feb-17	-480d	CAL 2 - 6 day	
CONS.A1.1340	Bridge D10 - Erect Precast Segments + Stitching + Stressing	64d	16-Mar-17	06-Jun-17	-512d	CAL 2 - 6 day	109 segments, 8 spans x 8 days / span
CONS.A1.1355	D10 Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge	50d	03-Aug-17	29-Sep-17	-129d	CAL 2 - 6 day	195m / 2 Steel Moulds @ 5 days cycle / 10m bay +
CONS.A1.1350	D10 Bridge Ancillary - Parapet/TCSS, Railing, MJ,	50d	03-Aug-17	29-Sep-17	-330d	CAL 2 - 6 day	195m / 2 Steel Moulds @ 5 days cycle / 10m bay
CONS.A1.1360	D10 Final Asphalt Paving + Road Markings	14d	30-Sep-17	18-Oct-17	-129d	CAL 2 - 6 day	
CONS.A1.1370	Bridge D10 complete	0d		18-Oct-17	-129d	CAL 2 - 6 day	
Bridge D11							
CONS.A1.1380.10	Predrilling (3 nos) (D11)	15d	25-Aug-15 A	23-Oct-15 A		CAL 2 - 6 day	3 nos x 5 days / 1 rigs
CONS.A1.1380.20	GI Report and Verification / Agreement to Founding Level	8d	23-Oct-15 A	31-Oct-15 A		CAL 2 - 6 day	
CONS.A1.1390	D11 Bored Piling (3 nos. 2000mm dia x 65) (52m for abutment)	88d	27-Jan-16 A	18-May-16 A		CAL 2 - 6 day	3 nos x 14 days / 1 rig
CONS.A1.1395	Pile Testing	60d	22-Mar-16 A	30-Jun-16 A		CAL 2 - 6 day	
CONS.A1.1400	Pile Trimming	38d	14-Jun-16 A	19-Jul-16 A		CAL 2 - 6 day	
CONS.A1.9070	Pile Caps (P1102)	18d	21-Jun-16 A	26-Jul-16 A		CAL 2 - 6 day	8 days
CONS.A1.9080	Pile Caps (A1101)	15d	14-Jul-16 A	16-Aug-16 A		CAL 2 - 6 day	8 days
CONS.A1.8900	Pier Columns (P1102)	12d	07-Sep-16 A	30-Sep-16 A		CAL 2 - 6 day	12 days
CONS.A1.1375	Site Possession / Access to Portion A1 (61d)	0d	06-Oct-16		1147d	CAL 2 - 6 day	
CONS.A1.1378	Survey / Setting Out	6d	06-Oct-16	13-Oct-16	1147d	CAL 2 - 6 day	
CONS.A1.9420	Pier Head & Bearing (P1102)	12d	06-Oct-16	20-Oct-16	-102d	CAL 2 - 6 day	12 days
CONS.A1.1405	Abutment A1101	36d	25-Mar-17	12-May-17	-265d	CAL 2 - 6 day	
CONS.A1.1430	Bridge D11 - Erect Precast Segments + Stitching + Stressing	16d	18-Dec-17	08-Jan-18	-447d	CAL 2 - 6 day	31 Segements, 2 spans x 8 days /span
CONS.A1.1440	D11 Bridge Ancillary - Parapet/TCSS, Railing, MJ,	25d	23-Jan-18	23-Feb-18	-447d	CAL 2 - 6 day	93m / 2 steel moulds @ 5 days / cycle / 10m bay
CONS.A1.1445	D11 Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge	25d	24-Feb-18	24-Mar-18	-269d	CAL 2 - 6 day	93m / 2 steel moulds @ 5 days / cycle / 10m bay
CONS.A1.1450	D11 Final Asphalt Paving + Road Markings	12d	26-Mar-18	12-Apr-18	-269d	CAL 2 - 6 day	
CONS.A1.1460	Bridge D11 complete	0d		12-Apr-18	-269d	CAL 2 - 6 day	
RW11 (42m / 3 bays)							
CONS.A1.3320	Commence RW11 Retaining Wall (42m / 3 bays)	0d	13-May-17		-183d	CAL 2 - 6 day	
CONS.A1.3330	Survey / Setting Out	6d	13-May-17	19-May-17	-183d	CAL 2 - 6 day	
CONS.A1.3340	Excavate to formation level (open cut / slope)	18d	20-May-17	10-Jun-17	-183d	CAL 2 - 6 day	
CONS.A1.3350	Cast Base & Wall Stem 3 bays (ribbed finish to 1m below F.G.L)	36d	12-Jun-17	24-Jul-17	-183d	CAL 2 - 6 day	3 bays x 12 days
CONS.A1.3360	Backfill to final ground level	24d	11-Jul-17	07-Aug-17	-183d	CAL 2 - 6 day	

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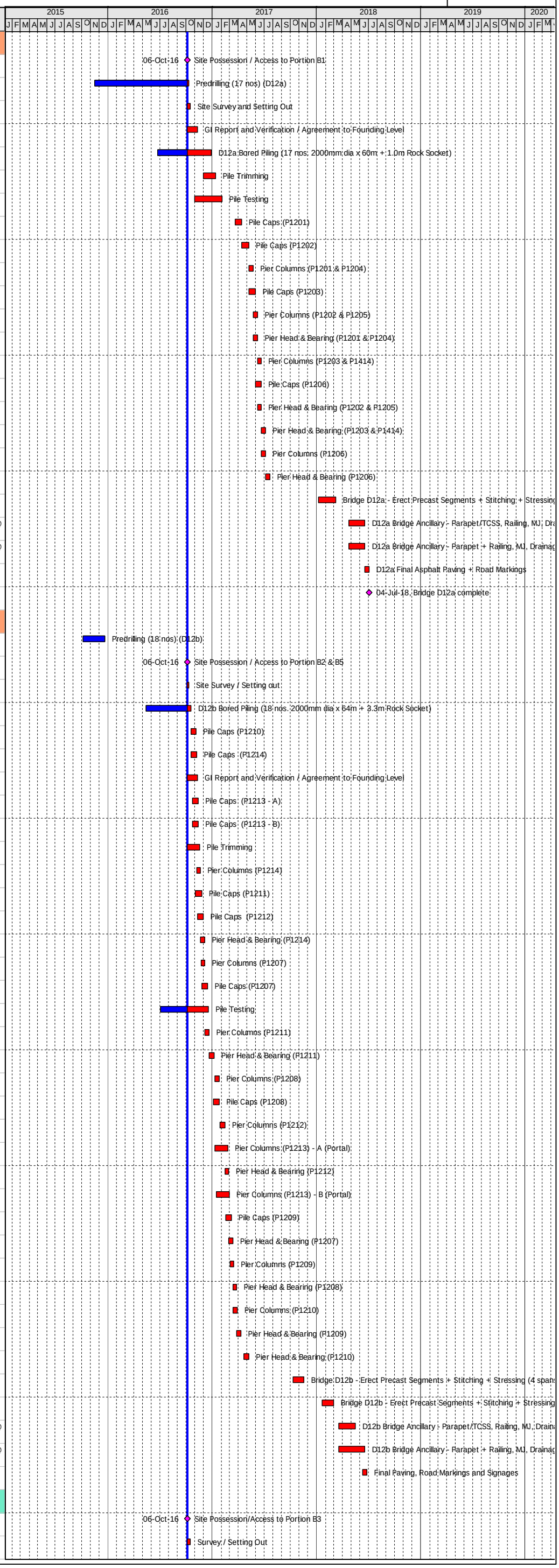
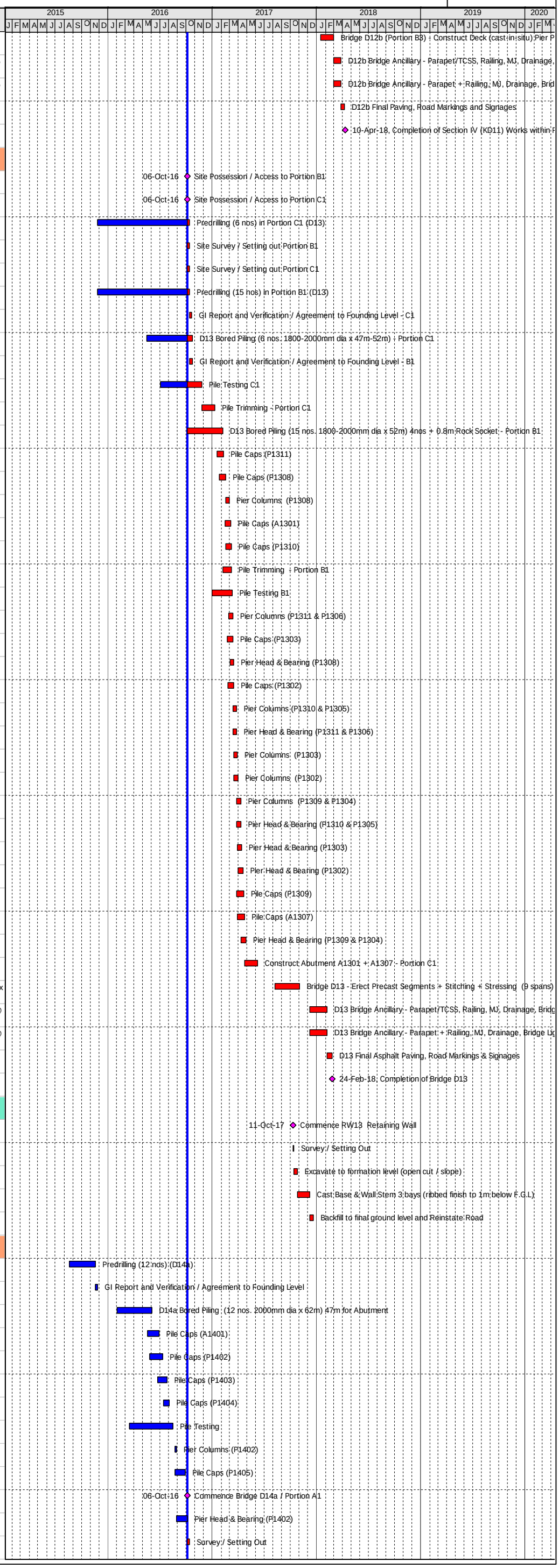
Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
Bridge D12a							
CONS.B1.1835	Site Possession / Access to Portion B1	0d	06-Oct-16		1146d	CAL 2 - 6 day	
CONS.B1.1840.10	Predrilling (17 nos) (D12a)	30d	16-Nov-15 A	11-Oct-16	1137d	CAL 2 - 6 day	17 nos x 5 days / 3 rigs
CONS.B1.1837	Site Survey and Setting Out	7d	06-Oct-16	14-Oct-16	1146d	CAL 2 - 6 day	
CONS.B1.1840.20	GI Report and Verification / Agreement to Founding Level	30d	06-Oct-16	10-Nov-16	1123d	CAL 2 - 6 day	
CONS.B1.1850	D12a Bored Piling (17 nos. 2000mm dia x 60m + 1.0m Rock	100d	23-Jun-16 A	29-Dec-16	-238d	CAL 2 - 6 day	17 nos x 18 days / 4 rigs
CONS.B1.1860	Pile Trimming	36d	30-Nov-16	13-Jan-17	-238d	CAL 2 - 6 day	
CONS.B1.1855	Pile Testing	77d	01-Nov-16	04-Feb-17	-225d	CAL 2 - 6 day	
CONS.B1.2450	Pile Caps (P1201)	18d	22-Mar-17	12-Apr-17	921d	CAL 2 - 6 day	14 days
CONS.B1.2460	Pile Caps (P1202)	18d	13-Apr-17	09-May-17	921d	CAL 2 - 6 day	14 days
CONS.B1.2020	Pier Columns (P1201 & P1204)	12d	10-May-17	23-May-17	921d	CAL 2 - 6 day	12 days
CONS.B1.2470	Pile Caps (P1203)	18d	10-May-17	31-May-17	921d	CAL 2 - 6 day	14 days
CONS.B1.2040	Pier Columns (P1202 & P1205)	12d	24-May-17	07-Jun-17	921d	CAL 2 - 6 day	12 days
CONS.B1.2480	Pier Head & Bearing (P1201 & P1204)	12d	24-May-17	07-Jun-17	921d	CAL 2 - 6 day	
CONS.B1.2050	Pier Columns (P1203 & P1414)	12d	08-Jun-17	21-Jun-17	921d	CAL 2 - 6 day	
CONS.B1.2440	Pile Caps (P1206)	18d	01-Jun-17	21-Jun-17	921d	CAL 2 - 6 day	
CONS.B1.2500	Pier Head & Bearing (P1202 & P1205)	12d	08-Jun-17	21-Jun-17	921d	CAL 2 - 6 day	
CONS.B1.2520	Pier Head & Bearing (P1203 & P1414)	12d	22-Jun-17	06-Jul-17	921d	CAL 2 - 6 day	
CONS.B1.2070	Pier Columns (P1206)	12d	22-Jun-17	06-Jul-17	921d	CAL 2 - 6 day	
CONS.B1.2530	Pier Head & Bearing (P1206)	12d	07-Jul-17	20-Jul-17	921d	CAL 2 - 6 day	
CONS.B1.1890	Bridge D12a - Erect Precast Segments + Stitching + Stressing	48d	08-Jan-18	08-Mar-18	-539d	CAL 2 - 6 day	95 Segments, 6 spans x 8 days / span
CONS.B1.1900	D12a Bridge Ancillary - Parapet/TCSS, Railing, MJ,	45d	24-Apr-18	19-Jun-18	-539d	CAL 2 - 6 day	171m / 2 steel moulds @ 5 days cycle / 10m bay
CONS.B1.1905	D12a Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge	45d	24-Apr-18	19-Jun-18	-336d	CAL 2 - 6 day	171m / 2 steel moulds @ 5 days cycle / 10m bay
CONS.B1.1910	D12a Final Asphalt Paving + Road Markings	12d	19-Jun-18	04-Jul-18	-336d	CAL 2 - 6 day	
CONS.B1.1920	Bridge D12a complete	0d		04-Jul-18	-336d	CAL 2 - 6 day	
Bridge D12b							
CONS.B2.2020.10	Predrilling (18 nos) (D12b)	30d	08-Oct-15 A	21-Dec-15 A		CAL 2 - 6 day	18 nos x 5 days / 3 rigs
CONS.B2.2015	Site Possession / Access to Portion B2 & B5	0d	06-Oct-16		1149d	CAL 2 - 6 day	
CONS.B2.2018	Site Survey / Setting out	4d	06-Oct-16	11-Oct-16	1149d	CAL 2 - 6 day	
CONS.B2.2030	D12b Bored Piling (18 nos. 2000mm dia x 64m + 3.3m Rock	65d	13-May-16 A	18-Oct-16	-379d	CAL 2 - 6 day	18 nos x 18 days / 5 rigs
CONS.B2.2270	Pile Caps (P1210)	18d	17-Oct-16*	05-Nov-16	0d	CAL 2 - 6 day	8 days
CONS.B2.2230	Pile Caps (P1214)	18d	17-Oct-16*	07-Nov-16	0d	CAL 2 - 6 day	8 days
CONS.B2.2020.20	GI Report and Verification / Agreement to Founding Level	30d	06-Oct-16	10-Nov-16	1123d	CAL 2 - 6 day	
CONS.B2.2210	Pile Caps (P1213 - A)	18d	24-Oct-16*	12-Nov-16	0d	CAL 2 - 6 day	8 days
CONS.B2.2220	Pile Caps (P1213 - B)	18d	24-Oct-16*	12-Nov-16	0d	CAL 2 - 6 day	8 days
CONS.B2.2040	Pile Trimming	36d	06-Oct-16	17-Nov-16	-381d	CAL 2 - 6 day	
CONS.B2.2120	Pier Columns (P1214)	12d	07-Nov-16	21-Nov-16	-342d	CAL 2 - 6 day	12 days
CONS.B2.2190	Pile Caps (P1211)	18d	03-Nov-16	24-Nov-16	-332d	CAL 2 - 6 day	8 days
CONS.B2.2200	Pile Caps (P1212)	18d	11-Nov-16	01-Dec-16	-381d	CAL 2 - 6 day	8 days
CONS.B2.2300	Pier Head & Bearing (P1214)	12d	21-Nov-16	05-Dec-16	-263d	CAL 2 - 6 day	
CONS.B2.2280	Pier Columns (P1207)	12d	22-Nov-16	06-Dec-16	-342d	CAL 2 - 6 day	12 days
CONS.B2.2240	Pile Caps (P1207)	18d	24-Nov-16	15-Dec-16	-117d	CAL 2 - 6 day	8 days
CONS.B2.2035	Pile Testing	65d	04-Jul-16 A	17-Dec-16	-381d	CAL 2 - 6 day	
CONS.B2.2100	Pier Columns (P1211)	12d	06-Dec-16	20-Dec-16	-342d	CAL 2 - 6 day	12 days
CONS.B2.2290	Pier Head & Bearing (P1211)	12d	20-Dec-16	06-Jan-17	-288d	CAL 2 - 6 day	
CONS.B2.2160	Pier Columns (P1208)	12d	10-Jan-17	24-Jan-17	-342d	CAL 2 - 6 day	12 days
CONS.B2.2250	Pile Caps (P1208)	18d	05-Jan-17	26-Jan-17	-117d	CAL 2 - 6 day	8 days
CONS.B2.2110	Pier Columns (P1212)	12d	27-Jan-17	13-Feb-17	-381d	CAL 2 - 6 day	12 days
CONS.B2.2130	Pier Columns (P1213) - A (Portal)	38d	09-Jan-17	24-Feb-17	-372d	CAL 2 - 6 day	
CONS.B2.2320	Pier Head & Bearing (P1212)	12d	14-Feb-17	27-Feb-17	-381d	CAL 2 - 6 day	
CONS.B2.2150	Pier Columns (P1213) - B (Portal)	38d	14-Jan-17	02-Mar-17	-383d	CAL 2 - 6 day	
CONS.B2.2260	Pile Caps (P1209)	18d	16-Feb-17	09-Mar-17	-117d	CAL 2 - 6 day	8 days
CONS.B2.2340	Pier Head & Bearing (P1207)	12d	28-Feb-17	13-Mar-17	-381d	CAL 2 - 6 day	
CONS.B2.2170	Pier Columns (P1209)	12d	03-Mar-17	16-Mar-17	-372d	CAL 2 - 6 day	12 days
CONS.B2.2360	Pier Head & Bearing (P1208)	12d	14-Mar-17	27-Mar-17	-381d	CAL 2 - 6 day	
CONS.B2.2140	Pier Columns (P1210)	12d	15-Mar-17	28-Mar-17	-383d	CAL 2 - 6 day	12 days
CONS.B2.2370	Pier Head & Bearing (P1209)	12d	28-Mar-17	11-Apr-17	-381d	CAL 2 - 6 day	
CONS.B2.2350	Pier Head & Bearing (P1210)	12d	22-Apr-17	08-May-17	-381d	CAL 2 - 6 day	
CONS.B2.2070	Bridge D12b - Erect Precast Segments + Stitching + Stressing	32d	10-Oct-17	16-Nov-17	-512d	CAL 2 - 6 day	64 Segments, 4 spans x 8 days/ span
CONS.B2.2380	Bridge D12b - Erect Precast Segments + Stitching + Stressing	32d	20-Jan-18	01-Mar-18	-512d	CAL 2 - 6 day	63 Segments, 4 spans x 8 days/ span
CONS.B2.2080	D12b Bridge Ancillary - Parapet/TCSS, Railing, MJ,	45d	20-Mar-18	16-May-18	-512d	CAL 2 - 6 day	182m / 2 steel moulds @ 5 days cycle / 10m bay
CONS.B2.2085	D12b Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge	72d	20-Mar-18	19-Jun-18	-329d	CAL 2 - 6 day	566m / 4 steel moulds @ 5 days cycle / 10m bay
CONS.B2.2090	Final Paving, Road Markings and Signages	12d	11-Jun-18	25-Jun-18	-329d	CAL 2 - 6 day	
Bridge D12b (cast in-situ) in Portion B3 (Interface with Contract HY/2012/07)							
CONS.B3.2110	Site Possession/Access to Portion B3	0d	06-Oct-16		-74d	CAL 2 - 6 day	
CONS.B3.2120	Survey / Setting Out	7d	06-Oct-16	14-Oct-16	-74d	CAL 2 - 6 day	



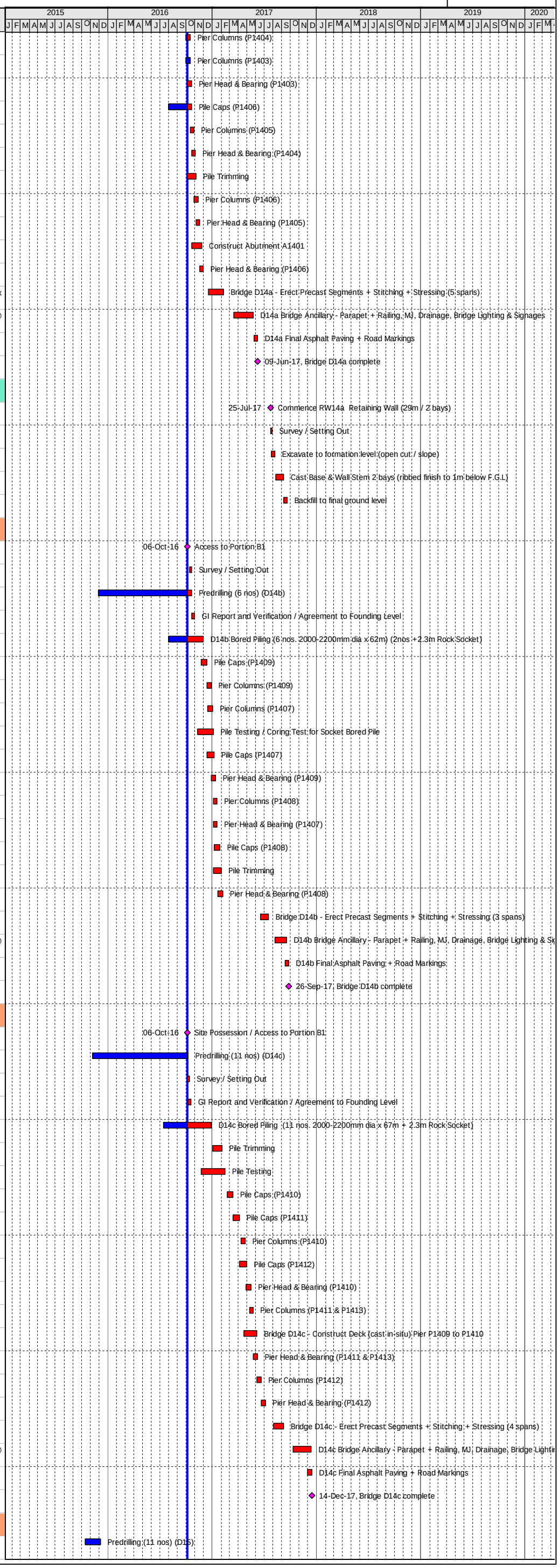
HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion)

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
CONS.B3.2130	Bridge D12b (Portion B3) - Construct Deck (cast-in-situ) Pier	36d	16-Jan-18	01-Mar-18	-450d	CAL 2 - 6 day	1 span (cast in-situ)
CONS.B3.2140	D12b Bridge Ancillary - Parapet/TCSS, Railing, MJ,	21d	02-Mar-18	26-Mar-18	-450d	CAL 2 - 6 day	41m / 1 steel mould @ 5 days cycle / 10m bay
CONS.B3.2145	D12b Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge	21d	02-Mar-18	26-Mar-18	-450d	CAL 2 - 6 day	41m / 1 steel mould @ 5 days cycle / 10m bay
CONS.B3.2150	D12b Final Paving, Road Markings and Signages	7d	27-Mar-18	07-Apr-18	-450d	CAL 2 - 6 day	
CONS.B3.2160	Completion of Section IV (KD11) Works within Portion B3 including	0d		10-Apr-18	-450d	CAL 2 - 6 day	
Bridge D13 in Portion B1 and Portion C1							
CONS.B1.1925	Site Possession / Access to Portion B1	0d	06-Oct-16		1049d	CAL 2 - 6 day	
CONS.B1.1926	Site Possession / Access to Portion C1	0d	06-Oct-16		1093d	CAL 2 - 6 day	
CONS.B1.1932.10	Predrilling (6 nos) in Portion C1 (D13)	15d	27-Nov-15 A	12-Oct-16	1092d	CAL 2 - 6 day	6 nos x 5 days / 2 rigs
CONS.B1.1928	Site Survey / Setting out Portion B1	6d	06-Oct-16	13-Oct-16	1049d	CAL 2 - 6 day	
CONS.B1.1929	Site Survey / Setting out Portion C1	6d	06-Oct-16	13-Oct-16	1093d	CAL 2 - 6 day	
CONS.B1.1930.10	Predrilling (15 nos) in Portion B1 (D13)	25d	27-Nov-15 A	14-Oct-16	1138d	CAL 2 - 6 day	15 nos x 5 days / 3 rigs
CONS.B1.1932.20	GI Report and Verification / Agreement to Founding Level - C1	8d	12-Oct-16	21-Oct-16	1092d	CAL 2 - 6 day	
CONS.B1.1946	D13 Bored Piling (6 nos. 1800-2000mm dia x 47m-52m) -	42d	18-May-16 A	24-Oct-16	972d	CAL 2 - 6 day	6 nos x 14 days / 2 rigs
CONS.B1.1930.20	GI Report and Verification / Agreement to Founding Level - B1	8d	14-Oct-16	24-Oct-16	1138d	CAL 2 - 6 day	
CONS.B1.1948	Pile Testing C1	42d	04-Jul-16 A	25-Nov-16	1063d	CAL 2 - 6 day	
CONS.B1.1952	Pile Trimming - Portion C1	36d	25-Nov-16	10-Jan-17	1063d	CAL 2 - 6 day	
CONS.B1.1940	D13 Bored Piling (15 nos. 1800-2000mm dia x 52m) 4nos +	100d	06-Oct-16	07-Feb-17	956d	CAL 2 - 6 day	4 nos x 18 days and 11 nos x 14 days / 4 rigs
CONS.B1.2330	Pile Caps (P1311)	18d	17-Jan-17	09-Feb-17	956d	CAL 2 - 6 day	10 days
CONS.B1.2390	Pile Caps (P1308)	18d	24-Jan-17	16-Feb-17	998d	CAL 2 - 6 day	10 days
CONS.B1.2200	Pier Columns (P1308)	12d	17-Feb-17	02-Mar-17	1021d	CAL 2 - 6 day	12 days
CONS.B1.2380	Pile Caps (A1301)	18d	14-Feb-17	06-Mar-17	994d	CAL 2 - 6 day	10 days
CONS.B1.2350	Pile Caps (P1310)	18d	16-Feb-17	08-Mar-17	956d	CAL 2 - 6 day	10 days
CONS.B1.1950	Pile Trimming - Portion B1	28d	07-Feb-17	10-Mar-17	956d	CAL 2 - 6 day	
CONS.B1.1942	Pile Testing B1	57d	31-Dec-16	11-Mar-17	956d	CAL 2 - 6 day	
CONS.B1.2210	Pier Columns (P1311 & P1306)	12d	28-Feb-17	13-Mar-17	988d	CAL 2 - 6 day	12 days
CONS.B1.2400	Pile Caps (P1303)	18d	23-Feb-17	15-Mar-17	998d	CAL 2 - 6 day	10 days
CONS.B1.2620	Pier Head & Bearing (P1308)	12d	03-Mar-17	16-Mar-17	1021d	CAL 2 - 6 day	
CONS.B1.2410	Pile Caps (P1302)	18d	25-Feb-17	17-Mar-17	996d	CAL 2 - 6 day	10 days
CONS.B1.2220	Pier Columns (P1310 & P1305)	12d	14-Mar-17	27-Mar-17	1000d	CAL 2 - 6 day	12 days
CONS.B1.2560	Pier Head & Bearing (P1311 & P1306)	12d	14-Mar-17	27-Mar-17	988d	CAL 2 - 6 day	
CONS.B1.2190	Pier Columns (P1303)	12d	16-Mar-17	29-Mar-17	998d	CAL 2 - 6 day	12 days
CONS.B1.2340	Pier Columns (P1302)	12d	18-Mar-17	31-Mar-17	996d	CAL 2 - 6 day	12 days
CONS.B1.2230	Pier Columns (P1309 & P1304)	12d	28-Mar-17	11-Apr-17	1000d	CAL 2 - 6 day	12 days
CONS.B1.2580	Pier Head & Bearing (P1310 & P1305)	12d	28-Mar-17	11-Apr-17	988d	CAL 2 - 6 day	
CONS.B1.2610	Pier Head & Bearing (P1303)	12d	30-Mar-17	13-Apr-17	998d	CAL 2 - 6 day	
CONS.B1.2630	Pier Head & Bearing (P1302)	12d	01-Apr-17	19-Apr-17	996d	CAL 2 - 6 day	
CONS.B1.2360	Pile Caps (P1309)	18d	27-Mar-17	20-Apr-17	956d	CAL 2 - 6 day	10 days
CONS.B1.2370	Pile Caps (A1307)	18d	30-Mar-17	24-Apr-17	956d	CAL 2 - 6 day	10 days
CONS.B1.2600	Pier Head & Bearing (P1309 & P1304)	12d	12-Apr-17	28-Apr-17	988d	CAL 2 - 6 day	
CONS.B1.1960	Construct Abutment A1301 + A1307 - Portion C1	36d	25-Apr-17	08-Jun-17	956d	CAL 2 - 6 day	2 nos x 2 work fronts
CONS.B1.1980	Bridge D13 - Erect Precast Segments + Stitching + Stressing	72d	07-Aug-17	02-Nov-17	-539d	CAL 2 - 6 day	129 Segments, 9 spans x 8 days /span
CONS.B1.1990	D13 Bridge Ancillary - Parapet/TCSS, Railing, MJ,	50d	07-Dec-17	07-Feb-18	-436d	CAL 2 - 6 day	293m / 3 steel moulds @ 5 days cycle / 10m bay
CONS.B1.1995	D13 Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge	50d	07-Dec-17	07-Feb-18	-386d	CAL 2 - 6 day	293m / 3 steel moulds @ 5 days cycle / 10m bay
CONS.B1.2000	D13 Final Asphalt Paving, Road Markings & Signages	12d	07-Feb-18	24-Feb-18	-233d	CAL 2 - 6 day	
CONS.B1.2010	Completion of Bridge D13	0d		24-Feb-18	-233d	CAL 2 - 6 day	
RW13 (40m / 3 bays)							
CONS.C2.3260	Commence RW13 Retaining Wall	0d	11-Oct-17		-183d	CAL 2 - 6 day	
CONS.C2.3270	Survey / Setting Out	3d	11-Oct-17	13-Oct-17	-183d	CAL 2 - 6 day	
CONS.C2.3280	Excavate to formation level (open cut / slope)	10d	14-Oct-17	25-Oct-17	-183d	CAL 2 - 6 day	
CONS.C2.3290	Cast Base & Wall Stem 3 bays (ribbed finish to 1m below F.G.L)	36d	26-Oct-17	07-Dec-17	-183d	CAL 2 - 6 day	3 bays x 12 days
CONS.C2.3300	Backfill to final ground level and Reinstate Road	12d	08-Dec-17	21-Dec-17	-183d	CAL 2 - 6 day	
Bridge D14a							
CONS.A1.1470.10	Predrilling (12 nos) (D14a)	30d	19-Aug-15 A	19-Nov-15 A		CAL 2 - 6 day	12 nos x 5 days / 2 rigs
CONS.A1.1470.20	GI Report and Verification / Agreement to Founding Level	8d	19-Nov-15 A	27-Nov-15 A		CAL 2 - 6 day	
CONS.A1.1480	D14a Bored Piling (12 nos. 2000mm dia x 62m) 47m for	56d	04-Feb-16 A	03-Jun-16 A		CAL 2 - 6 day	12 nos x 14 days / 3 rigs
CONS.A1.9000	Pile Caps (A1401)	13d	19-May-16 A	28-Jun-16 A		CAL 2 - 6 day	8 days
CONS.A1.9010	Pile Caps (P1402)	13d	26-May-16 A	12-Jul-16 A		CAL 2 - 6 day	8 days
CONS.A1.9020	Pile Caps (P1403)	13d	24-Jun-16 A	26-Jul-16 A		CAL 2 - 6 day	8 days
CONS.A1.9030	Pile Caps (P1404)	30d	15-Jul-16 A	04-Aug-16 A		CAL 2 - 6 day	8 days
CONS.A1.1485	Pile Testing	56d	18-Mar-16 A	17-Aug-16 A		CAL 2 - 6 day	
CONS.A1.8940	Pier Columns (P1402)	12d	25-Aug-16 A	29-Aug-16 A		CAL 2 - 6 day	12 days
CONS.A1.9040	Pile Caps (P1405)	30d	23-Aug-16 A	27-Sep-16 A		CAL 2 - 6 day	8 days
CONS.A1.1464	Commence Bridge D14a / Portion A1	0d	06-Oct-16		1141d	CAL 2 - 6 day	
CONS.A1.9440	Pier Head & Bearing (P1402)	12d	30-Aug-16 A	06-Oct-16 A		CAL 2 - 6 day	
CONS.A1.1466	Survey / Setting Out	6d	06-Oct-16	13-Oct-16	1141d	CAL 2 - 6 day	



HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion)

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
CONS.A1.8960	Pier Columns (P1404)	12d	30-Sep-16 A	15-Oct-16	-566d	CAL 2 - 6 day	12 days
CONS.A1.8950	Pier Columns (P1403)	12d	02-Oct-16 A	15-Oct-16 A		CAL 2 - 6 day	12 days
CONS.A1.9450	Pier Head & Bearing (P1403)	12d	06-Oct-16	20-Oct-16	-571d	CAL 2 - 6 day	
CONS.A1.9050	Pile Caps (P1406)	30d	02-Aug-16 A	21-Oct-16	-559d	CAL 2 - 6 day	8 days
CONS.A1.8970	Pier Columns (P1405)	12d	15-Oct-16	29-Oct-16	-566d	CAL 2 - 6 day	12 days
CONS.A1.9460	Pier Head & Bearing (P1404)	12d	21-Oct-16	03-Nov-16	-571d	CAL 2 - 6 day	
CONS.A1.1490	Pile Trimming	26d	06-Oct-16	05-Nov-16	1127d	CAL 2 - 6 day	
CONS.A1.8980	Pier Columns (P1406)	12d	29-Oct-16	12-Nov-16	-566d	CAL 2 - 6 day	12 days
CONS.A1.9470	Pier Head & Bearing (P1405)	12d	04-Nov-16	17-Nov-16	-571d	CAL 2 - 6 day	
CONS.A1.1515	Construct Abutment A1401	30d	22-Oct-16	25-Nov-16	-551d	CAL 2 - 6 day	
CONS.A1.9480	Pier Head & Bearing (P1406)	12d	18-Nov-16	01-Dec-16	-571d	CAL 2 - 6 day	
CONS.A1.1520	Bridge D14a - Erect Precast Segments + Stitching + Stressing	40d	17-Dec-16	08-Feb-17	-571d	CAL 2 - 6 day	75 Segments / 5 spans x 8 days / span
CONS.A1.1530	D14a Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge	55d	16-Mar-17	25-May-17	-165d	CAL 2 - 6 day	428m / 4 steel moulds @ 5 days / cycle / 10m bay
CONS.A1.1540	D14a Final Asphalt Paving + Road Markings	12d	26-May-17	09-Jun-17	-55d	CAL 2 - 6 day	
CONS.A1.1550	Bridge D14a complete	0d		09-Jun-17	-20d	CAL 2 - 6 day	
RW14A (29m / 2 bays)							
CONS.A1.3380	Commence RW14a Retaining Wall (29m / 2 bays)	0d	25-Jul-17		868d	CAL 2 - 6 day	
CONS.A1.3390	Survey / Setting Out	5d	25-Jul-17	29-Jul-17	868d	CAL 2 - 6 day	
CONS.A1.3400	Excavate to formation level (open cut / slope)	12d	27-Jul-17	09-Aug-17	868d	CAL 2 - 6 day	
CONS.A1.3410	Cast Base & Wall Stem 2 bays (ribbed finish to 1m below F.G.L)	24d	10-Aug-17	06-Sep-17	868d	CAL 2 - 6 day	2 bays x 12 days
CONS.A1.3420	Backfill to final ground level	12d	07-Sep-17	20-Sep-17	868d	CAL 2 - 6 day	
Bridge D14b in Portion A1 and Portion B1							
CONS.B1.1654	Access to Portion B1	0d	06-Oct-16		1147d	CAL 2 - 6 day	
CONS.B1.1656	Survey / Setting Out	6d	14-Oct-16	20-Oct-16	1141d	CAL 2 - 6 day	
CONS.B1.1660.10	Predrilling (6 nos) (D14b)	15d	30-Nov-15 A	21-Oct-16	1132d	CAL 2 - 6 day	6 nos x 5 days / 2 rigs
CONS.B1.1660.20	GI Report and Verification / Agreement to Founding Level	8d	21-Oct-16	31-Oct-16	1132d	CAL 2 - 6 day	
CONS.B1.1670	D14b Bored Piling (6 nos. 2000-2200mm dia x 62m) (2nos	56d	02-Aug-16 A	30-Nov-16	1058d	CAL 2 - 6 day	2 nos x 18 days + 4 nos x 14 days / 2 rigs
CONS.B1.2310	Pile Caps (P1409)	18d	22-Nov-16*	13-Dec-16	0d	CAL 2 - 6 day	8 days
CONS.B1.2110	Pier Columns (P1409)	12d	12-Dec-16*	28-Dec-16	0d	CAL 2 - 6 day	12 days
CONS.B1.2090	Pier Columns (P1407)	12d	16-Dec-16*	03-Jan-17	0d	CAL 2 - 6 day	12 days
CONS.B1.1675	Pile Testing / Coring Test for Socket Bored Pile	46d	09-Nov-16	05-Jan-17	1058d	CAL 2 - 6 day	
CONS.B1.2290	Pile Caps (P1407)	18d	13-Dec-16	06-Jan-17	1059d	CAL 2 - 6 day	8 days
CONS.B1.2660	Pier Head & Bearing (P1409)	12d	29-Dec-16*	13-Jan-17	0d	CAL 2 - 6 day	12 days
CONS.B1.2100	Pier Columns (P1408)	12d	04-Jan-17*	18-Jan-17	0d	CAL 2 - 6 day	12 days
CONS.B1.2640	Pier Head & Bearing (P1407)	12d	04-Jan-17*	18-Jan-17	0d	CAL 2 - 6 day	12 days
CONS.B1.2300	Pile Caps (P1408)	18d	06-Jan-17	27-Jan-17	1059d	CAL 2 - 6 day	8 days
CONS.B1.1680	Pile Trimming	20d	05-Jan-17	01-Feb-17	1058d	CAL 2 - 6 day	3 nos x 8 days + 6 days trimming
CONS.B1.2650	Pier Head & Bearing (P1408)	12d	19-Jan-17*	06-Feb-17	0d	CAL 2 - 6 day	12 days
CONS.B1.1710	Bridge D14b - Erect Precast Segments + Stitching + Stressing	24d	17-Jun-17	17-Jul-17	-539d	CAL 2 - 6 day	49 Segments @ 3 spans x 8 days / span
CONS.B1.1720	D14b Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge	36d	07-Aug-17	18-Sep-17	-278d	CAL 2 - 6 day	284m / 4 steel moulds @ 5 days / cycle / 10m bay
CONS.B1.1730	D14b Final Asphalt Paving + Road Markings	12d	12-Sep-17	26-Sep-17	-112d	CAL 2 - 6 day	
CONS.B1.1740	Bridge D14b complete	0d		26-Sep-17	-112d	CAL 2 - 6 day	
Bridge D14c							
CONS.B1.1744	Site Possession / Access to Portion B1	0d	06-Oct-16		1147d	CAL 2 - 6 day	
CONS.B1.1750.10	Predrilling (11 nos) (D14c)	20d	10-Nov-15 A	07-Oct-16	1143d	CAL 2 - 6 day	11 nos x 5 days / 3 rigs
CONS.B1.1746	Survey / Setting Out	6d	06-Oct-16	13-Oct-16	1147d	CAL 2 - 6 day	
CONS.B1.1750.20	GI Report and Verification / Agreement to Founding Level	8d	07-Oct-16	18-Oct-16	1143d	CAL 2 - 6 day	
CONS.B1.1760	D14c Bored Piling (11 nos. 2000-2200mm dia x 67m + 2.3m	96d	14-Jul-16 A	29-Dec-16	934d	CAL 2 - 6 day	11 nos x 18 days / 3 rigs
CONS.B1.1770	Pile Trimming	24d	03-Jan-17	03-Feb-17	934d	CAL 2 - 6 day	
CONS.B1.1765	Pile Testing	66d	22-Nov-16	14-Feb-17	955d	CAL 2 - 6 day	
CONS.B1.2250	Pile Caps (P1410)	18d	22-Feb-17	15-Mar-17	934d	CAL 2 - 6 day	12 days
CONS.B1.2260	Pile Caps (P1411)	18d	15-Mar-17	06-Apr-17	959d	CAL 2 - 6 day	12 days
CONS.B1.2120	Pier Columns (P1410)	12d	10-Apr-17	27-Apr-17	934d	CAL 2 - 6 day	12 days
CONS.B1.2270	Pile Caps (P1412)	18d	06-Apr-17	02-May-17	963d	CAL 2 - 6 day	12 days
CONS.B1.2670	Pier Head & Bearing (P1410)	12d	29-Apr-17	16-May-17	952d	CAL 2 - 6 day	12 days
CONS.B1.2130	Pier Columns (P1411 & P1413)	12d	11-May-17	25-May-17	934d	CAL 2 - 6 day	12 days
CONS.B1.1795	Bridge D14c - Construct Deck (cast in-situ) Pier P1409 to P1410	36d	20-Apr-17	05-Jun-17	-476d	CAL 2 - 6 day	1 span (cast in-situ)
CONS.B1.2680	Pier Head & Bearing (P1411 & P1413)	12d	25-May-17	09-Jun-17	944d	CAL 2 - 6 day	12 days
CONS.B1.2140	Pier Columns (P1412)	12d	07-Jun-17	21-Jun-17	934d	CAL 2 - 6 day	12 days
CONS.B1.2690	Pier Head & Bearing (P1412)	12d	21-Jun-17	06-Jul-17	934d	CAL 2 - 6 day	12 days
CONS.B1.1800	Bridge D14c - Erect Precast Segments + Stitching + Stressing	32d	03-Aug-17	08-Sep-17	-512d	CAL 2 - 6 day	60 Segments, 4 spans x 8 days / span
CONS.B1.1810	D14c Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge	54d	10-Oct-17	12-Dec-17	-177d	CAL 2 - 6 day	428m / 4 steel moulds @ 5 days / cycle / 10m bay
CONS.B1.1820	D14c Final Asphalt Paving + Road Markings	12d	01-Dec-17	14-Dec-17	-177d	CAL 2 - 6 day	
CONS.B1.1830	Bridge D14c complete	0d		14-Dec-17	-177d	CAL 2 - 6 day	
Bridge D15							
CONS.B5.2110.10	Predrilling (11 nos) (D15)	30d	15-Oct-15 A	07-Dec-15 A		CAL 2 - 6 day	11 nos x 5 days / 2 rigs



HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion)

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
CONS.B5.2104	Site Possession/Access to Portion B5	0d	06-Oct-16		1147d	CAL 2 - 6 day	
CONS.B5.2106	Survey/ Site Setting Out	6d	06-Oct-16	13-Oct-16	1147d	CAL 2 - 6 day	
CONS.B5.2110.20	GI Report and Verification / Agreement to Founding Level	12d	06-Oct-16	20-Oct-16	1141d	CAL 2 - 6 day	
CONS.B5.2120	D15 Bored Piling (11 nos. 2000mm dia x 65m + 3.3m Rock Socket)	50d	26-May-16 A	27-Oct-16	-338d	CAL 2 - 6 day	11 nos x 18 days / 4 rigs
CONS.B5.2280	Pile Caps (P1505)	18d	18-Oct-16*	07-Nov-16	0d	CAL 2 - 6 day	12 days
CONS.B5.2260	Pile Caps (P1503)	18d	01-Nov-16	21-Nov-16	-338d	CAL 2 - 6 day	12 days
CONS.B5.2130	Pile Trimming	25d	26-Oct-16	23-Nov-16	-338d	CAL 2 - 6 day	
CONS.B5.2125	Pile Testing	50d	13-Oct-16	09-Dec-16	-338d	CAL 2 - 6 day	
CONS.B5.2250	Pile Caps (P1501 & P1502)	18d	22-Nov-16	12-Dec-16	-338d	CAL 2 - 6 day	12 days
CONS.B5.2190	Pier Columns (P1501 & P1502)	12d	13-Dec-16	28-Dec-16	-338d	CAL 2 - 6 day	12 days
CONS.B5.2270	Pile Caps (P1504)	18d	09-Dec-16	31-Dec-16	-63d	CAL 2 - 6 day	12 days
CONS.B5.2210	Pier Columns (P1503)	12d	29-Dec-16	12-Jan-17	-338d	CAL 2 - 6 day	12 days
CONS.B5.2290	Pier Head & Bearing (P1501)	12d	29-Dec-16	12-Jan-17	-338d	CAL 2 - 6 day	12 days
CONS.B5.2220	Pier Columns (P1504)	12d	13-Jan-17	26-Jan-17	-338d	CAL 2 - 6 day	12 days
CONS.B5.2310	Pier Head & Bearing (P1503)	12d	13-Jan-17	26-Jan-17	-338d	CAL 2 - 6 day	12 days
CONS.B5.2230	Pier Columns (P1505)	12d	27-Jan-17	13-Feb-17	-338d	CAL 2 - 6 day	12 days
CONS.B5.2320	Pier Head & Bearing (P1504)	12d	27-Jan-17	13-Feb-17	-338d	CAL 2 - 6 day	12 days
CONS.B5.2330	Pier Head & Bearing (P1505)	12d	14-Feb-17	27-Feb-17	-338d	CAL 2 - 6 day	12 days
CONS.B5.2150	Bridge D15 - Construct Deck (cast in-situ) Pier P1501/P1502-1503	36d	10-Oct-17	21-Nov-17	-492d	CAL 2 - 6 day	1 span x 36 days (cast in-situ)
CONS.B5.2160	Bridge D15 - Erect Precast Segments + Stitching + Stressing	16d	15-Dec-17	05-Jan-18	-512d	CAL 2 - 6 day	32 Segments, 2 Spans x 8 days / span
CONS.B5.2170	D15 Bridge Ancillary - Parapet/TCSS, Railing, MJ,	60d	26-Jan-18	14-Apr-18	-386d	CAL 2 - 6 day	450m / 4 steel moulds @ 5 days cycle / 10m bay
CONS.B5.2340	Bridge D15 - Erect Precast Segments + Stitching + Stressing	16d	03-Apr-18	21-Apr-18	-370d	CAL 2 - 6 day	32 Segments, 2 Spans x 8 days / span
CONS.B5.2180	D15 Final Asphalt Paving, Road Markings and Signages	12d	23-Apr-18	07-May-18	-289d	CAL 2 - 6 day	
Bridge D15 in Portion B4 (Interface with Contract HY/2012/07)							
CONS.B4.2170	Site Possession/Access to Portion B4	0d	29-Nov-16		46d	CAL 2 - 6 day	
CONS.B4.2180	Survey / Site Setting Out	6d	15-Nov-17	21-Nov-17	-238d	CAL 2 - 6 day	
CONS.B4.2190	Bridge D15 - Erect Precast Segments on Falseworks at	8d	08-May-18	16-May-18	-370d	CAL 2 - 6 day	14 segments, 1 Span x 8 days
CONS.B4.2200	D15 Bridge Ancillary - Parapet/TCSS, Railing, MJ,	30d	25-May-18	29-Jun-18	-370d	CAL 2 - 6 day	84m / 2 steel moulds @ 5 days cycle / 10m bay
CONS.B4.2210	D15 Final Asphalt Paving, Road Markings and Signages	18d	30-Jun-18	21-Jul-18	-370d	CAL 2 - 6 day	
CONS.B4.2230	Completion of Section V (KD12) Works within Portion B4 including	0d		18-Aug-18	-370d	CAL 2 - 6 day	
CONS.B4.2220	Inspection and Handover	24d	23-Jul-18	18-Aug-18	-370d	CAL 2 - 6 day	
Bridge D16S and D16N and Abutment A1601 in Portion A3/A6							
CONS.A4.2250.10	Predrilling (2 nos) (D16) - BH 03 & BH 04 at Portion A6	10d	25-Sep-15 A	10-Nov-15 A		CAL 2 - 6 day	4 nos x 5 d / 1 rig
CONS.A4.2250.30	Predrilling (2 nos) (D16) - BH 01 & BH 02 at Portion A3	10d	25-Sep-15 A	10-Nov-15 A		CAL 2 - 6 day	
CONS.A4.2260	D16S Bored Piling (2 nos x 1800mm dia)	28d	12-Mar-16 A	19-Apr-16 A		CAL 2 - 6 day	4 nos x 14 days / 1 rig
CONS.A4.2340	D16N Bored Piling (2 nos x 1800mm dia)	28d	21-Apr-16 A	23-May-16 A		CAL 2 - 6 day	
CONS.A4.2350	Pile Testing - BH 01 & BH 02	28d	18-Jun-16 A	27-Jun-16 A		CAL 2 - 6 day	
CONS.A4.2230	Commence Works for Abutment A1601	0d	06-Oct-16		1147d	CAL 2 - 6 day	
CONS.A4.2240	Survey / Site Setting Out	6d	06-Oct-16	13-Oct-16	1147d	CAL 2 - 6 day	
CONS.A4.2250.20	GI Report and Verification / Agreement to Founding Level to	8d	06-Oct-16	15-Oct-16	1145d	CAL 2 - 6 day	
CONS.A4.2250.40	GI Report and Verification / Agreement to Founding Level to	8d	06-Oct-16	15-Oct-16	1145d	CAL 2 - 6 day	
CONS.A4.2265	Pile Testing - BH 03 & BH 04	28d	18-Jun-16 A	22-Oct-16	-122d	CAL 2 - 6 day	
CONS.A4.2360	Pile Trimming + Pile Caps	20d	17-Jan-17	11-Feb-17	-122d	CAL 2 - 6 day	
CONS.A4.2280	Construct Abutment A1601	30d	13-Feb-17	18-Mar-17	-122d	CAL 2 - 6 day	
Bridge D16S and D16N in Portion A4							
CONS.A4.2285	Site Possession / Site Access to Portion A4	0d	20-Mar-17		-89d	CAL 2 - 6 day	
CONS.A4.2290	Bridge D16S & D16N - Construct Deck (cast in-stu)	36d	04-Apr-18	17-May-18	-395d	CAL 2 - 6 day	1 span cast in-situ 36 days
CONS.A4.2300	D16N & D16S Bridge Ancillary - Parapet, MJ, Drainage, Bridge	32d	24-May-18	30-Jun-18	-395d	CAL 2 - 6 day	38m / 1 steel moulds @ 5 days cycle / 10m bay
CONS.A4.2310	D16 Final Asphalt Paving, Road Markings and Signages	12d	23-Jul-18	04-Aug-18	-370d	CAL 2 - 6 day	
CONS.A4.2320	Inspection and Handover of Bridge D16	6d	06-Aug-18	11-Aug-18	-362d	CAL 2 - 6 day	
CONS.A4.2330	Completion of Bridge D16N and D16S	0d		21-Aug-18	-370d	CAL 2 - 6 day	
RW16S (15m / 1 bay) in Portion A6							
CONS.A1.3500	Commence RW16s Retaining Wall (29m / 2 bays)	0d	13-Feb-17		12d	CAL 2 - 6 day	
CONS.A1.3510	Survey / Setting Out	4d	13-Feb-17	16-Feb-17	12d	CAL 2 - 6 day	
CONS.A1.3520	Excavate to formation level (open cut / slope)	12d	17-Feb-17	02-Mar-17	12d	CAL 2 - 6 day	
CONS.A1.3530	Cast Base & Wall Stem 1 bay (ribbed finish to 1m below F.G.L)	20d	03-Mar-17	25-Mar-17	12d	CAL 2 - 6 day	1 bay x 12 days
CONS.A1.3540	Install U/G Utilities - TCSS, ELV & LV Ducting & Draw Pits	14d	27-Mar-17	12-Apr-17	12d	CAL 2 - 6 day	
CONS.A1.3550	Backfill to final ground level	12d	13-Apr-17	29-Apr-17	12d	CAL 2 - 6 day	
RW16N (15m / 1 bay) in Portion A6							
CONS.A1.3440	Commence RW16n Retaining Wall (29m / 2 bays)	0d	13-Feb-17		12d	CAL 2 - 6 day	
CONS.A1.3450	Survey / Setting Out	4d	13-Feb-17	16-Feb-17	12d	CAL 2 - 6 day	
CONS.A1.3460	Excavate to formation level (open cut / slope)	12d	17-Feb-17	02-Mar-17	12d	CAL 2 - 6 day	
CONS.A1.3470	Cast Base & Wall Stem 1 bay (ribbed finish to 1m below F.G.L)	20d	03-Mar-17	25-Mar-17	12d	CAL 2 - 6 day	1 bay x 18 days
CONS.A1.3480	Install U/G Utilities - TCSS, ELV & LV Ducting	14d	27-Mar-17	12-Apr-17	12d	CAL 2 - 6 day	
CONS.A1.3490	Backfill to final ground level	12d	13-Apr-17	29-Apr-17	12d	CAL 2 - 6 day	
Depressed Road RC Structure							

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Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
Stage 1- Depressed Road RC Structure (Bay 9 to Bay 10) Interface with Bridge D14a, D9a, D10							
CONS.C1.8670	Commence Works on Depressed Road (after removal of falsework	0d	07-Jun-17		-119d	CAL 2 - 6 day	
CONS.C1.8699	Excavate to formation level (open cut)	24d	07-Jun-17	05-Jul-17	-119d	CAL 2 - 6 day	
CONS.C1.8720	Construct- base slab	24d	06-Jul-17	02-Aug-17	-119d	CAL 2 - 6 day	
CONS.C1.8730	Construct - wall (Plan ad Ribbed Finishes)	24d	03-Aug-17	30-Aug-17	-119d	CAL 2 - 6 day	
CONS.C1.8740	Backfill and Compaction	36d	24-Aug-17	06-Oct-17	-119d	CAL 2 - 6 day	
Stage 2 - Depressed Road RC Structure (Bay 1 to Bay 8) Interface with Bridge D13, D8, D9a							
CONS.C1.8671	Commence Works on Depressed Road (after removal of falseworks	0d	19-Aug-17		-233d	CAL 2 - 6 day	
CONS.C1.8690	Excavate to formation level (open cut)	48d	19-Aug-17	17-Oct-17	-233d	CAL 2 - 6 day	interface with erection of segments at D14a and
CONS.C1.8721	Construct- base slab	96d	21-Sep-17	18-Jan-18	-233d	CAL 2 - 6 day	
CONS.C1.8731	Construct - wall (Plan ad Ribbed Finishes)	96d	21-Oct-17	15-Feb-18	-233d	CAL 2 - 6 day	
CONS.C1.8741	Backfill and Compaction	36d	10-Jan-18	24-Feb-18	-233d	CAL 2 - 6 day	
Sign Gantry							
Sign Gantry Footings at Grade in Portion A1							
DS303 (Driven H Pile)							
CONS.A1.4390	Piling Works - Driven H Pile (12 nos)	30d	24-Jun-16 A	02-Sep-16 A		CAL 2 - 6 day	12 nos x 2.5 d / Driven H-Pile
CONS.A1.4380.10	Predrilling (12 nos) (DS303)	30d	31-Oct-15 A	05-Nov-16	1116d	CAL 2 - 6 day	12 nos x 5 days / 2 rigs
CONS.A1.4410	Excavation, Pile Trimming + Cast Pile Caps (3 nos)	30d	06-Oct-16	10-Nov-16	-169d	CAL 2 - 6 day	
CONS.A1.4380.20	GI Report and Verification / Agreement to Founding Level	30d	15-Oct-16	19-Nov-16	1116d	CAL 2 - 6 day	
CONS.A1.4420	Backfill Foundation	12d	11-Nov-16	24-Nov-16	-169d	CAL 2 - 6 day	
Sign Gantry Footing at Grade in Portion C1 & Portion D1							
DS302 (610mm dia. Prebored H Pile)							
CONS.D1.3380	Commence Foundation / Footing for Sign Gantry	0d	06-Oct-16		-240d	CAL 2 - 6 day	
CONS.D1.3390	Mobilisation/ Survey / Setting Out	10d	06-Oct-16	18-Oct-16	-240d	CAL 2 - 6 day	
CONS.D1.3400.10	Predrilling for Prebored H Pile (8 nos) (DS302)	20d	19-Oct-16	10-Nov-16	-240d	CAL 2 - 6 day	8 nos x 5 days / 2 rigs
CONS.D1.3400.20	GI Report and Verification / Agreement to Founding Level	8d	11-Nov-16	19-Nov-16	1115d	CAL 2 - 6 day	
CONS.D1.3410	Pre-bored Socket H-Pile (8 nos)	48d	27-Aug-16 A	03-Dec-16	-240d	CAL 2 - 6 day	8 nos x 6 days / Pile - 1 rig
CONS.D1.3420	Pile Testing	48d	10-Nov-16	09-Jan-17	-240d	CAL 2 - 6 day	
CONS.D1.3430	Excavation, Pile Trimming + Pile Caps (2 nos)	24d	09-Jan-17	09-Feb-17	-240d	CAL 2 - 6 day	
CONS.D1.3440	Backfill Foundation	12d	09-Feb-17	23-Feb-17	-240d	CAL 2 - 6 day	
GT408 (Driven H Pile)							
CONS.C1.4030.10	Predrilling (8 nos) (GT408)	20d	08-Oct-16	01-Nov-16	-203d	CAL 2 - 6 day	8 nos x 5 days / 2 rigs
CONS.C1.4030.20	GI Report and Verification / Agreement to Founding Level	8d	02-Nov-16	10-Nov-16	-203d	CAL 2 - 6 day	
CONS.C1.4040	Piling Works - Driven H Pile (8 nos)	20d	11-Nov-16	03-Dec-16	-203d	CAL 2 - 6 day	8 nos x 2.5 days
CONS.C1.4060	Excavation, Pile Trimming + Cast Pile Caps (2 nos)	20d	05-Dec-16	29-Dec-16	-203d	CAL 2 - 6 day	
CONS.C1.4070	Backfill Foundation	6d	30-Dec-16	06-Jan-17	-203d	CAL 2 - 6 day	
DS44 (Driven H Pile)							
CONS.C1.4110	Piling Works - Driven H Pile (8 nos)	20d	12-Jul-16 A	02-Sep-16 A		CAL 2 - 6 day	8 nos x 2.5 days
CONS.C1.4100.10	Predrilling (8 nos) (DS44)	20d	14-Dec-15 A	18-Oct-16	-252d	CAL 2 - 6 day	8 nos x 5 days / 2 rigs
CONS.C1.4100.20	GI Report and Verification / Agreement to Founding Level	8d	19-Oct-16	27-Oct-16	1135d	CAL 2 - 6 day	
CONS.C1.4130	Excavation, Pile Trimming + Cast Pile Caps (2 nos)	20d	06-Oct-16	29-Oct-16	-153d	CAL 2 - 6 day	
CONS.C1.4140	Backfill Foundation	6d	31-Oct-16	05-Nov-16	-153d	CAL 2 - 6 day	
DS261 (Driven H Pile)							
CONS.C1.4170.10	Predrilling (8 nos) (DS261)	20d	19-Oct-16	10-Nov-16	-252d	CAL 2 - 6 day	8 nos x 5 days / 2 rigs
CONS.C1.4170.20	GI Report and Verification / Agreement to Founding Level	8d	11-Nov-16	19-Nov-16	-232d	CAL 2 - 6 day	
CONS.C1.4180	Piling Works - Driven H Pile (8 nos)	20d	21-Nov-16	13-Dec-16	-232d	CAL 2 - 6 day	8 nos x 2.5 days
CONS.C1.4200	Excavation, Pile Trimming + Cast Pile Caps (2 nos)	20d	14-Dec-16	09-Jan-17	-211d	CAL 2 - 6 day	
CONS.C1.4210	Backfill Foundation	6d	10-Jan-17	16-Jan-17	-211d	CAL 2 - 6 day	
ADS301 (Driven H Pile)							
CONS.C1.4240.10	Predrilling (12 nos) (ADS301)	20d	11-Nov-16	03-Dec-16	-252d	CAL 2 - 6 day	12 nos x 5 days / 3 rigs
CONS.C1.4240.20	GI Report and Verification / Agreement to Founding Level	8d	05-Dec-16	13-Dec-16	-252d	CAL 2 - 6 day	
CONS.C1.4250	Piling Works - Driven H Pile (12 nos)	30d	14-Dec-16	20-Jan-17	-252d	CAL 2 - 6 day	12 nos x 2.5 days / Driven H-Pile
CONS.C1.4270	Excavation, Pile Trimming + Cast Pile Caps (3 nos)	30d	21-Jan-17	28-Feb-17	-252d	CAL 2 - 6 day	
CONS.C1.4280	Backfill Foundation	8d	01-Mar-17	09-Mar-17	-252d	CAL 2 - 6 day	
FADS303 (Driven H Pile)							
CONS.C1.4320	Piling Works - Driven H Pile (8 nos)	20d	07-Jul-16 A	18-Oct-16	-158d	CAL 2 - 6 day	8 nos x 2.5 days
CONS.C1.4310.10	Predrilling (8 nos) (FADS303)	20d	24-Nov-15 A	27-Oct-16	1127d	CAL 2 - 6 day	8 nos x 5 days / 2 rigs
CONS.C1.4310.20	GI Report and Verification / Agreement to Founding Level	8d	27-Oct-16	05-Nov-16	1127d	CAL 2 - 6 day	
CONS.C1.4340	Excavation, Pile Trimming + Cast Pile Caps (2 nos)	20d	19-Oct-16	10-Nov-16	-158d	CAL 2 - 6 day	
CONS.C1.4350	Backfill Foundation	12d	11-Nov-16	24-Nov-16	-158d	CAL 2 - 6 day	
Erection of Sign Gantry and High Mast for TCSS Works							
CONS.C1.4360	Erection of Sign Gantry & High Mast Structure and Associated	90d	15-Sep-17	05-Jan-18	-408d	CAL 2 - 6 day	KD1 and KD3
Drainage and U/G Utilities							
CONS.RW.3880	Excavate and Install HV Cable Ducting on Carriageway (East of	43d	08-Jun-17	28-Jul-17	-571d	CAL 2 - 6 day	
CONS.RW.3890	Excavate and Install HV Cable Ducting on Carriageway (East of	43d	29-Jul-17	16-Sep-17	-571d	CAL 2 - 6 day	
CONS.RW.3900	Excavate and Install HV Cable Ducting on Carriageway (West of	14d	18-Sep-17	04-Oct-17	-571d	CAL 2 - 6 day	

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Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
CONS.RW.2300	Handover area to CLP for HV Cable Laying	0d		14-Nov-17	-571d	CAL 2 - 6 day	
CONS.RW.3870	Excavate and Install HV Cable Ducting on Carriageway (West of	33d	06-Oct-17	14-Nov-17	-571d	CAL 2 - 6 day	
Drainage and U/G Utilities (West of Pump House)							
Drainage & UU							
Road SOL 101 / 105 (Phase 1)							
Drainage System							
CONS.RW.2270	Survey/ Road Setting Out	3d	25-Mar-17	28-Mar-17	-452d	CAL 2 - 6 day	
CONS.RW.2280	Road Formation to Sub-grade (Cut & Fill)	35d	29-Mar-17	15-May-17	-452d	CAL 2 - 6 day	
CONS.RW.2290	Excavate to invert level and install Drainage System (Drain Pipes &	69d	19-Apr-17	12-Jul-17	-426d	CAL 2 - 6 day	
Installation of Underground Utilities							
CONS.RW.2310	Excavate and Install Fresh WM / Valves & fittings + Testing,	52d	13-Jun-17	12-Aug-17	-426d	CAL 2 - 6 day	
CONS.RW.2320	Excavate and Install Common Telecom Ducting and Telecom	52d	27-Jun-17	26-Aug-17	-313d	CAL 2 - 6 day	
CONS.RW.2330	Excavate and Install ELV/ LV Ducting and Pillar Box for TCSS	52d	12-Jul-17	09-Sep-17	-313d	CAL 2 - 6 day	
Road SOL 101 / 105 (Phase 2)							
Drainage System							
CONS.RW.3440	Survey/ Road Setting Out	3d	25-Mar-17	28-Mar-17	-309d	CAL 2 - 6 day	
CONS.RW.3450	Road Formation to Sub-grade (Cut & Fill)	52d	29-Mar-17	05-Jun-17	-309d	CAL 2 - 6 day	
CONS.RW.3460	Excavate to invert level and install Drainage System (Drain Pipes &	65d	19-Apr-17	07-Jul-17	-309d	CAL 2 - 6 day	
Installation of Underground Utilities							
CONS.RW.3400	Excavate and Install Fresh WM / Valves & fittings + Testing,	52d	08-Jun-17	08-Aug-17	-309d	CAL 2 - 6 day	
CONS.RW.3410	Excavate and Install Common Telecom Ducting and Telecom	52d	22-Jun-17	22-Aug-17	-309d	CAL 2 - 6 day	
CONS.RW.3420	Excavate and Install ELV/ LV Ducting and Pillar Box for TCSS	52d	07-Jul-17	05-Sep-17	-309d	CAL 2 - 6 day	
Road SOL 102 /106 /111 and the neigboring landscape area (Phase 1)							
Drainage System							
CONS.RW.2410	Survey/ Road Setting Out	3d	04-Jan-17	06-Jan-17	-352d	CAL 2 - 6 day	
CONS.RW.2420	Road Formation to Sub-grade (Cut & Fill)	24d	07-Jan-17	07-Feb-17	-352d	CAL 2 - 6 day	
CONS.RW.2430	Excavate to invert level and install Drainage System (Drain Pipes &	62d	08-Feb-17	25-Apr-17	-352d	CAL 2 - 6 day	
Installation of Underground Utilities							
CONS.RW.2940	Excavate and Install Fresh WM / Valves & fittings + Testing,	61d	11-Mar-17	27-May-17	-352d	CAL 2 - 6 day	
CONS.RW.2950	Excavate and Install Common Telecom Ducting and Telecom	61d	25-Mar-17	12-Jun-17	-249d	CAL 2 - 6 day	
CONS.RW.2960	Excavate and Install ELV/ LV Ducting and Pillar Box for TCSS	61d	10-Apr-17	26-Jun-17	-249d	CAL 2 - 6 day	
Road SOL 102 /106 /111 and the neigboring landscape area (Phase 2)							
Drainage System							
CONS.RW.3470	Survey/ Road Setting Out	3d	04-Jan-17	06-Jan-17	-248d	CAL 2 - 6 day	
CONS.RW.3480	Road Formation to Sub-grade (Cut & Fill)	24d	07-Jan-17	07-Feb-17	-248d	CAL 2 - 6 day	
CONS.RW.3490	Excavate to invert level and install Drainage System (Drain Pipes &	61d	08-Feb-17	24-Apr-17	-248d	CAL 2 - 6 day	
Installation of Underground Utilities							
CONS.RW.3500	Excavate and Install Fresh WM / Valves & fittings + Testing,	61d	10-Mar-17	26-May-17	-248d	CAL 2 - 6 day	
CONS.RW.3510	Excavate and Install Common Telecom Ducting and Telecom	61d	24-Mar-17	10-Jun-17	-248d	CAL 2 - 6 day	
CONS.RW.3520	Excavate and Install ELV/ LV Ducting and Pillar Box for TCSS	61d	08-Apr-17	24-Jun-17	-248d	CAL 2 - 6 day	
Road SOL 104 (Phase 1)							
Drainage System							
CONS.RW.2440	Survey/ Road Setting Out	3d	24-Jan-17	26-Jan-17	-348d	CAL 2 - 6 day	
CONS.RW.2450	Road Formation to Sub-grade (Cut & Fill)	20d	26-Jan-17	21-Feb-17	-348d	CAL 2 - 6 day	
CONS.RW.2460	Excavate to invert level and install Drainage System (Drain Pipes &	65d	22-Feb-17	15-May-17	-348d	CAL 2 - 6 day	
Installation of Underground Utilities							
CONS.RW.2470	Excavate and Install Fresh WM / Valves & fittings + Testing,	35d	20-Apr-17	02-Jun-17	-348d	CAL 2 - 6 day	
CONS.RW.2480	Excavate and Install Flush WM / Valves & fittings + Testing,	35d	06-May-17	16-Jun-17	-348d	CAL 2 - 6 day	
CONS.RW.2490	Excavate and Install ELV/ LV Ducting and Pillar Box for TCSS	35d	20-May-17	30-Jun-17	-253d	CAL 2 - 6 day	
Road SOL 104 (Phase 2)							
Drainage System							
CONS.RW.3560	Survey/ Road Setting Out	3d	24-Jan-17	26-Jan-17	-255d	CAL 2 - 6 day	
CONS.RW.3570	Road Formation to Sub-grade (Cut & Fill)	15d	27-Jan-17	16-Feb-17	-255d	CAL 2 - 6 day	
CONS.RW.3580	Excavate to invert level and install Drainage System (Drain Pipes &	61d	17-Feb-17	05-May-17	-255d	CAL 2 - 6 day	
Installation of Underground Utilities							
CONS.RW.3530	Excavate and Install Fresh WM / Valves & fittings + Testing,	35d	22-Apr-17	05-Jun-17	-255d	CAL 2 - 6 day	
CONS.RW.3540	Excavate and Install Flush WM / Valves & fittings + Testing,	35d	09-May-17	19-Jun-17	-255d	CAL 2 - 6 day	
CONS.RW.3550	Excavate and Install ELV/ LV Ducting and Pillar Box for TCSS	35d	23-May-17	04-Jul-17	-255d	CAL 2 - 6 day	
Undergound Utilties (ELV, Fresh WM & Telecom)							
Work in Portion D1 and D2							
Sewage Rising main at Portion D1							
CONS.RM.1010	Commence Works on Rising Main	0d	16-May-17		-442d	CAL 2 - 6 day	
CONS.RM.1020	Site Survey / Setting Out Sewerage Alignment	6d	16-May-17	22-May-17	-442d	CAL 2 - 6 day	
CONS.RM.1030	Excavate to Invert Level & Install 2 Sewage Rising Main DN100 CHC	75d	23-May-17	19-Aug-17	-442d	CAL 2 - 6 day	
CONS.RM.1040	Construct Thrust Block	24d	07-Aug-17	02-Sep-17	841d	CAL 2 - 6 day	
CONS.RM.1050	Gravity Flow Testing	12d	04-Sep-17	16-Sep-17	841d	CAL 2 - 6 day	

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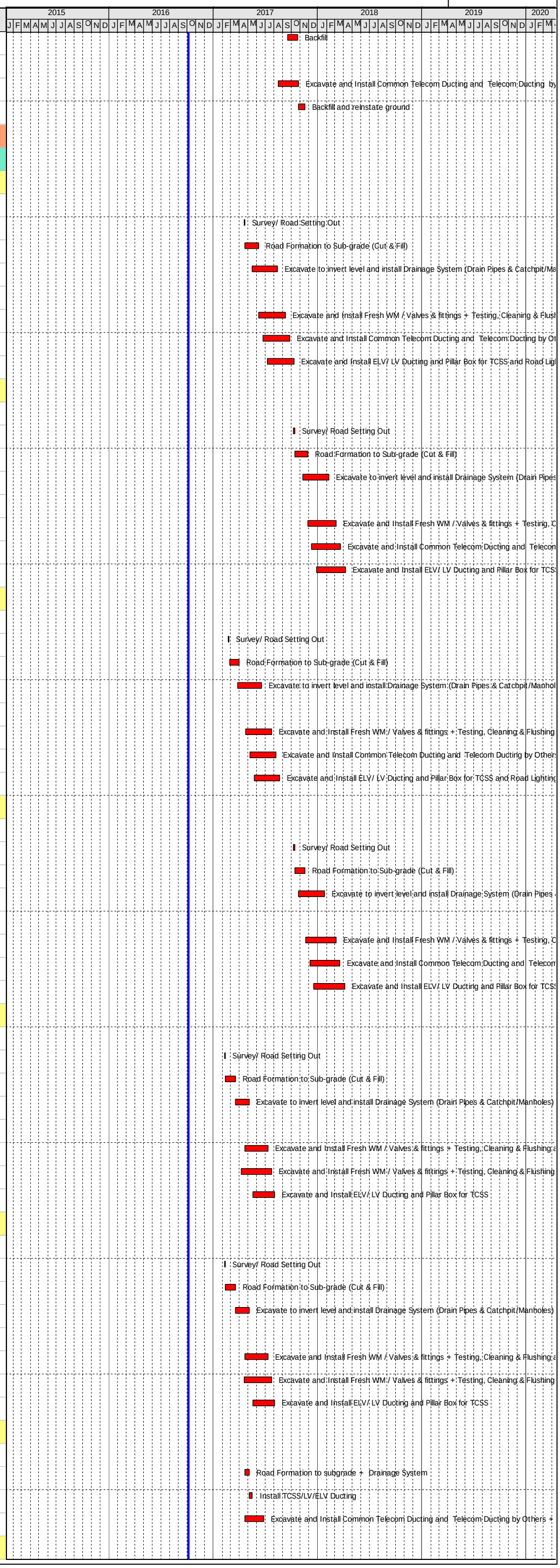
Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
CONS.RM.1060	Backfill	30d	18-Sep-17	24-Oct-17	841d	CAL 2 - 6 day	
Telecom Crossing at Portion D2 and D1							
CONS.RW.2800	Excavate and Install Common Telecom Ducting and Telecom	60d	15-Aug-17	25-Oct-17	-323d	CAL 2 - 6 day	
CONS.RW.2820	Backfill and reinstate ground	18d	26-Oct-17	16-Nov-17	-323d	CAL 2 - 6 day	
Drainage and U/G Utilities (East of Pump House)							
Drainage & UU							
Road SOL 101 / 109 / 114 (Phase 1)							
Drainage System							
CONS.RE.1010	Survey/ Road Setting Out	3d	18-Apr-17	20-Apr-17	-571d	CAL 2 - 6 day	
CONS.RE.1020	Road Formation to Sub-grade (Cut & Fill)	38d	21-Apr-17	07-Jun-17	-571d	CAL 2 - 6 day	
CONS.RE.1030	Excavate to invert level and install Drainage System (Drain Pipes &	75d	17-May-17	14-Aug-17	-518d	CAL 2 - 6 day	
Installation of Underground Utilities							
CONS.RE.1060	Excavate and Install Fresh WM / Valves & fittings + Testing,	80d	09-Jun-17	11-Sep-17	-518d	CAL 2 - 6 day	
CONS.RE.1070	Excavate and Install Common Telecom Ducting and Telecom	80d	23-Jun-17	25-Sep-17	-338d	CAL 2 - 6 day	
CONS.RE.1080	Excavate and Install ELV/ LV Ducting and Pillar Box for TCSS	80d	08-Jul-17	11-Oct-17	-338d	CAL 2 - 6 day	
Road SOL 101 / 109 / 114 (Phase 2)							
Drainage System							
CONS.RE.4220	Survey/ Road Setting Out	3d	09-Oct-17	12-Oct-17	-481d	CAL 2 - 6 day	
CONS.RE.4200	Road Formation to Sub-grade (Cut & Fill)	38d	12-Oct-17	27-Nov-17	-481d	CAL 2 - 6 day	
CONS.RE.4210	Excavate to invert level and install Drainage System (Drain Pipes &	75d	09-Nov-17	08-Feb-18	-481d	CAL 2 - 6 day	
Installation of Underground Utilities							
CONS.RE.4230	Excavate and Install Fresh WM / Valves & fittings + Testing,	80d	27-Nov-17	07-Mar-18	-481d	CAL 2 - 6 day	
CONS.RE.4240	Excavate and Install Common Telecom Ducting and Telecom	80d	11-Dec-17	21-Mar-18	-481d	CAL 2 - 6 day	
CONS.RE.4250	Excavate and Install ELV/ LV Ducting and Pillar Box for TCSS	80d	27-Dec-17	09-Apr-18	-481d	CAL 2 - 6 day	
Road SOL 102 and the area outside the carriageway including landscaping (Phase 1)							
Drainage System							
CONS.RE.1970	Survey/ Road Setting Out	3d	23-Feb-17	25-Feb-17	-478d	CAL 2 - 6 day	
CONS.RE.1980	Road Formation to Sub-grade (Cut & Fill)	30d	27-Feb-17	01-Apr-17	-478d	CAL 2 - 6 day	
CONS.RE.1990	Excavate to invert level and install Drainage System (Drain Pipes &	65d	27-Mar-17	17-Jun-17	-476d	CAL 2 - 6 day	
Installation of Underground Utilities							
CONS.RE.2890	Excavate and Install Fresh WM / Valves & fittings + Testing,	75d	24-Apr-17	24-Jul-17	-476d	CAL 2 - 6 day	
CONS.RE.2900	Excavate and Install Common Telecom Ducting and Telecom	75d	10-May-17	07-Aug-17	-296d	CAL 2 - 6 day	
CONS.RE.2910	Excavate and Install ELV/ LV Ducting and Pillar Box for TCSS	75d	24-May-17	21-Aug-17	-296d	CAL 2 - 6 day	
Road SOL 102 and the area outside the carriageway including landscaping (Phase 2)							
Drainage System							
CONS.RE.4260	Survey/ Road Setting Out	3d	09-Oct-17	12-Oct-17	-488d	CAL 2 - 6 day	
CONS.RE.4270	Road Formation to Sub-grade (Cut & Fill)	30d	12-Oct-17	17-Nov-17	-488d	CAL 2 - 6 day	
CONS.RE.4280	Excavate to invert level and install Drainage System (Drain Pipes &	75d	26-Oct-17	26-Jan-18	-488d	CAL 2 - 6 day	
Installation of Underground Utilities							
CONS.RE.4290	Excavate and Install Fresh WM / Valves & fittings + Testing,	85d	20-Nov-17	06-Mar-18	-488d	CAL 2 - 6 day	
CONS.RE.4300	Excavate and Install Common Telecom Ducting and Telecom	85d	04-Dec-17	20-Mar-18	-480d	CAL 2 - 6 day	
CONS.RE.4310	Excavate and Install ELV/ LV Ducting and Pillar Box for TCSS	85d	18-Dec-17	07-Apr-18	-480d	CAL 2 - 6 day	
Road SOL 107 / 113 (Phase 1)							
Drainage System							
CONS.RE.2000	Survey/ Road Setting Out	3d	09-Feb-17	11-Feb-17	-438d	CAL 2 - 6 day	
CONS.RE.2010	Road Formation to Sub-grade (Cut & Fill)	30d	13-Feb-17	18-Mar-17	-438d	CAL 2 - 6 day	
CONS.RE.2020	Excavate to invert level and install Drainage System (Drain Pipes &	35d	20-Mar-17	05-May-17	-438d	CAL 2 - 6 day	
Installation of Underground Utilities							
CONS.RE.2040	Excavate and Install Fresh WM / Valves & fittings + Testing,	65d	21-Apr-17	10-Jul-17	-438d	CAL 2 - 6 day	
CONS.RE.2050	Excavate and Install Fresh WM / Valves & fittings + Testing,	85d	08-Apr-17	24-Jul-17	-438d	CAL 2 - 6 day	
CONS.RE.2060	Excavate and Install ELV/ LV Ducting and Pillar Box for TCSS	65d	19-May-17	04-Aug-17	-282d	CAL 2 - 6 day	
Road SOL 107 / 113 (Phase 2)							
Drainage System							
CONS.RE.4320	Survey/ Road Setting Out	3d	09-Feb-17	11-Feb-17	-336d	CAL 2 - 6 day	
CONS.RE.4330	Road Formation to Sub-grade (Cut & Fill)	30d	13-Feb-17	18-Mar-17	-336d	CAL 2 - 6 day	
CONS.RE.4340	Excavate to invert level and install Drainage System (Drain Pipes &	35d	20-Mar-17	05-May-17	-336d	CAL 2 - 6 day	
Installation of Underground Utilities							
CONS.RE.4350	Excavate and Install Fresh WM / Valves & fittings + Testing,	65d	21-Apr-17	10-Jul-17	-336d	CAL 2 - 6 day	
CONS.RE.4360	Excavate and Install Fresh WM / Valves & fittings + Testing,	80d	18-Apr-17	24-Jul-17	-336d	CAL 2 - 6 day	
CONS.RE.4370	Excavate and Install ELV/ LV Ducting and Pillar Box for TCSS	65d	18-May-17	03-Aug-17	-336d	CAL 2 - 6 day	
Road SOL 108 / 106 & SOL 110							
Adjacent to Road SOL 108 / 106, Abutment A901 and SOL 110							
CONS.RE.2160	Road Formation to subgrade + Drainage System	11d	21-Apr-17	05-May-17	-303d	CAL 2 - 6 day	
CONS.RE.2190	Install TCSS/LV/ELV Ducting	10d	06-May-17	17-May-17	-303d	CAL 2 - 6 day	
CONS.RE.2070	Excavate and Install Common Telecom Ducting and Telecom	54d	21-Apr-17	26-Jun-17	-303d	CAL 2 - 6 day	
Portion A1 and A2 - Sub-Base Area							



Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
CONS.A1.4430	Demobilisation of Temporary Facilities on Site	25d	18-May-18	16-Jun-18	580d	CAL 2 - 6 day	
CONS.A1.4440	Site Survey / Site Clearing	12d	19-Jun-18	03-Jul-18	580d	CAL 2 - 6 day	
CONS.A1.4450	Area to Formation Level	20d	04-Jul-18	26-Jul-18	580d	CAL 2 - 6 day	
CONS.A1.4460	Sub-Base Material Topping (Area 29,963 m2 x 100mm thk Subbase)	40d	27-Jul-18	11-Sep-18	580d	CAL 2 - 6 day	
Area 3 (in Portion A6)							
Drainage System							
CONS.RE.4660	Survey/ Road Setting Out	5d	14-Apr-18	20-Apr-18	-386d	CAL 2 - 6 day	
CONS.RE.4670	Road Formation to Sub-grade (Cut & Fill)	20d	20-Apr-18	15-May-18	-386d	CAL 2 - 6 day	
CONS.RE.4680	Excavate to invert level and install Drainage System (Drain Pipes &	10d	15-May-18	28-May-18	-386d	CAL 2 - 6 day	
Installation of Underground Utilities							
CONS.RE.4690	Excavate and Install ELV/ LV Ducting and Pillar Box for TCSS	10d	28-May-18	08-Jun-18	-386d	CAL 2 - 6 day	
CONS.RE.4700	Excavate and Install Fresh WM / Valves & fittings + Testing,	10d	08-Jun-18	21-Jun-18	-386d	CAL 2 - 6 day	
CONS.RE.4710	Excavate and Install Fresh WM / Valves & fittings + Testing,	10d	21-Jun-18	04-Jul-18	-386d	CAL 2 - 6 day	
Roadworks							
Area 1 (West of Pump House) (Portion C1)							
Road Works							
Road SOL 101 / 105 (Phase 1)							
Kerbing and Footings for Railing, Fencing, Signages and Road Lighting							
CONS.RW.3000	Excavate and Construct Footings for Road Lightings / Railing /	60d	11-Sep-17	22-Nov-17	-253d	CAL 2 - 6 day	
CONS.RW.3010	Road Formation to Sub-base	45d	06-Oct-17	28-Nov-17	-253d	CAL 2 - 6 day	
CONS.RW.3020	Construct Precast Road Kerbings	45d	20-Oct-17	12-Dec-17	-253d	CAL 2 - 6 day	
Road Works to Road Base and Base Course							
CONS.RW.3030	Road Formation to Road Base	50d	24-Nov-17	24-Jan-18	-253d	CAL 2 - 6 day	
CONS.RW.3040	Road Formation to Base Course	36d	16-Dec-17	30-Jan-18	-253d	CAL 2 - 6 day	
Installation of Railing and Fencing + Road Lighting and Signages							
CONS.RW.3050	Install Road Railing and Fencing	45d	09-Jan-18	05-Mar-18	-253d	CAL 2 - 6 day	
CONS.RW.3060	Install Road Lighting and Signages	36d	25-Jan-18	10-Mar-18	-253d	CAL 2 - 6 day	
Final Paving and Road Markings							
CONS.RW.2980	Final Road Paving (Wearing Course)	12d	22-Feb-18	07-Mar-18	-253d	CAL 2 - 6 day	
CONS.RW.2990	Road Markings and Road Signages	5d	08-Mar-18	13-Mar-18	-253d	CAL 2 - 6 day	
CONS.RW.2970	Cleaning and Rectification Works	6d	14-Mar-18	20-Mar-18	-253d	CAL 2 - 6 day	
Road SOL 101 / 105 (Phase 2)							
Kerbing and Footings for Railing, Fencing, Signages and Road Lighting							
CONS.RW.3630	Road Formation to Sub-base	45d	06-Sep-17	31-Oct-17	-244d	CAL 2 - 6 day	
CONS.RW.3640	Construct Precast Road Kerbings	45d	20-Sep-17	14-Nov-17	-244d	CAL 2 - 6 day	
Road Works to Road Base and Base Course							
CONS.RW.3650	Road Formation to Road Base	50d	14-Oct-17	12-Dec-17	-244d	CAL 2 - 6 day	
CONS.RW.3660	Road Formation to Base Course	36d	18-Nov-17	02-Jan-18	-244d	CAL 2 - 6 day	
Installation of Railing and Fencing + Road Lighting and Signages							
CONS.RW.3670	Install Road Railing and Fencing	45d	19-Dec-17	12-Feb-18	-244d	CAL 2 - 6 day	
CONS.RW.3680	Install Road Lighting and Signages	36d	16-Jan-18	01-Mar-18	-244d	CAL 2 - 6 day	
Final Paving and Road Markings							
CONS.RW.3600	Final Road Paving (Wearing Course)	12d	13-Feb-18	01-Mar-18	-244d	CAL 2 - 6 day	
CONS.RW.3610	Road Markings and Road Signages	10d	24-Feb-18	07-Mar-18	-244d	CAL 2 - 6 day	
CONS.RW.3590	Cleaning and Rectification Works	6d	03-Mar-18	09-Mar-18	-244d	CAL 2 - 6 day	
Road SOL 102 /106 /111 (Phase 1)							
Kerbing and Footings for Railing, Fencing, Signages and Road Lighting							
CONS.RW.3270	Excavate and Construct Footings for Road Lightings / Railing /	75d	27-Jun-17	22-Sep-17	-183d	CAL 2 - 6 day	
CONS.RW.3280	Road Formation to Sub-base	60d	29-Jul-17	09-Oct-17	-183d	CAL 2 - 6 day	
CONS.RW.3290	Construct Precast Road Kerbings	60d	12-Aug-17	23-Oct-17	-183d	CAL 2 - 6 day	
Road Works to Road Base and Base Course							
CONS.RW.3210	Road Formation to Road Base	45d	13-Sep-17	07-Nov-17	-183d	CAL 2 - 6 day	
CONS.RW.3220	Road Formation to Base Course	36d	12-Oct-17	23-Nov-17	-183d	CAL 2 - 6 day	
Installation of Railing and Fencing + Road Lighting and Signages							
CONS.RW.3230	Install Road Railing and Fencing	45d	31-Oct-17	21-Dec-17	-183d	CAL 2 - 6 day	
CONS.RW.3240	Install Road Lighting and Signages	36d	13-Nov-17	23-Dec-17	-183d	CAL 2 - 6 day	
Final Paving and Road Markings							
CONS.RW.3250	Final Road Paving (Wearing Course)	10d	01-Dec-17	12-Dec-17	-177d	CAL 2 - 6 day	
CONS.RW.3260	Road Markings and Road Signages	7d	07-Dec-17	14-Dec-17	-177d	CAL 2 - 6 day	
Road SOL 102 /106 /111 (Phase 2)							
Kerbing and Footings for Railing, Fencing, Signages and Road Lighting							
CONS.RW.3750	Excavate and Construct Footings for Road Lightings / Railing /	75d	27-Jun-17	22-Sep-17	810d	CAL 2 - 6 day	
CONS.RW.3760	Road Formation to Sub-base	60d	29-Jul-17	09-Oct-17	811d	CAL 2 - 6 day	
CONS.RW.3770	Construct Precast Road Kerbings	60d	12-Aug-17	23-Oct-17	806d	CAL 2 - 6 day	
Road Works to Road Base and Base Course							
CONS.RW.3690	Road Formation to Road Base	45d	22-Sep-17	16-Nov-17	806d	CAL 2 - 6 day	

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Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
CONS.RW.3700	Road Formation to Base Course	36d	24-Oct-17	05-Dec-17	806d	CAL 2 - 6 day	
Installation of Railing and Fencing + Road Lighting and Signages							
CONS.RW.3710	Install Road Railing and Fencing	45d	31-Oct-17	21-Dec-17	-177d	CAL 2 - 6 day	
CONS.RW.3720	Install Road Lighting and Signages	36d	13-Nov-17	23-Dec-17	-177d	CAL 2 - 6 day	
Final Paving and Road Markings							
CONS.RW.3730	Final Road Paving (Wearing Course)	10d	01-Dec-17	12-Dec-17	-177d	CAL 2 - 6 day	
CONS.RW.3740	Road Markings and Road Signages	7d	07-Dec-17	14-Dec-17	-177d	CAL 2 - 6 day	
Road SOL 104 (Phase 1)							
Kerbing and Footings for Railing, Fencing, Signages and Road Lighting							
CONS.RW.3320	Excavate and Construct Footings for Road Lightings / Railing /	50d	03-Jul-17	29-Aug-17	-181d	CAL 2 - 6 day	
CONS.RW.3330	Road Formation to Sub-base	45d	22-Jul-17	12-Sep-17	-172d	CAL 2 - 6 day	
CONS.RW.3340	Construct Precast Road Kerbings	45d	05-Aug-17	26-Sep-17	-172d	CAL 2 - 6 day	
Road Works to Road Base and Base Course							
CONS.RW.3350	Road Formation to Road Base	45d	02-Sep-17	26-Oct-17	-172d	CAL 2 - 6 day	
CONS.RW.3360	Road Formation to Base Course	36d	25-Sep-17	08-Nov-17	-172d	CAL 2 - 6 day	
Installation of Railing and Fencing + Road Lighting and Signages							
CONS.RW.3380	Install Road Lighting and Signages	30d	13-Nov-17	16-Dec-17	-183d	CAL 2 - 6 day	
CONS.RW.3370	Install Road Railing and Fencing	36d	10-Nov-17	21-Dec-17	-181d	CAL 2 - 6 day	
Final Paving and Road Markings							
CONS.RW.3310	Road Markings and Road Signages	5d	12-Dec-17	16-Dec-17	-179d	CAL 2 - 6 day	
CONS.RW.3300	Final Road Paving (Wearing Course)	7d	18-Dec-17	27-Dec-17	-179d	CAL 2 - 6 day	
Road SOL 104 (Phase 2)							
Kerbing and Footings for Railing, Fencing, Signages and Road Lighting							
CONS.RW.3800	Excavate and Construct Footings for Road Lightings / Railing /	50d	03-Jul-17	29-Aug-17	-181d	CAL 2 - 6 day	
CONS.RW.3810	Road Formation to Sub-base	45d	22-Jul-17	12-Sep-17	-181d	CAL 2 - 6 day	
CONS.RW.3820	Construct Precast Road Kerbings	45d	05-Aug-17	26-Sep-17	-173d	CAL 2 - 6 day	
Road Works to Road Base and Base Course							
CONS.RW.3830	Road Formation to Road Base	45d	13-Sep-17	07-Nov-17	-181d	CAL 2 - 6 day	
CONS.RW.3840	Road Formation to Base Course	36d	07-Oct-17	18-Nov-17	-181d	CAL 2 - 6 day	
Installation of Railing and Fencing + Road Lighting and Signages							
CONS.RW.3850	Install Road Railing and Fencing	36d	01-Nov-17	12-Dec-17	-181d	CAL 2 - 6 day	
CONS.RW.3860	Install Road Lighting and Signages	30d	13-Nov-17	16-Dec-17	-183d	CAL 2 - 6 day	
Final Paving and Road Markings							
CONS.RW.3780	Final Road Paving (Wearing Course)	7d	08-Dec-17	15-Dec-17	-183d	CAL 2 - 6 day	
CONS.RW.3790	Road Markings and Road Signages	5d	16-Dec-17	21-Dec-17	-183d	CAL 2 - 6 day	
Area 2 (East of Pump House Portion C1, A1, A2, B1, B2,B5)							
Road Works							
Road SOL 101 / 109 / 114 (Phase 1)							
Kerbing and Footings for Railing, Fencing, Signages and Road Lighting							
CONS.RE.3840	Excavate and Construct Footings for Road Lightings / Railing /	60d	01-Nov-17	12-Jan-18	-321d	CAL 2 - 6 day	
CONS.RE.3850	Road Formation to Sub-base	45d	02-Dec-17	26-Jan-18	-321d	CAL 2 - 6 day	
CONS.RE.3860	Construct Precast Road Kerbings	45d	16-Dec-17	09-Feb-18	-321d	CAL 2 - 6 day	
Road Works to Road Base and Base Course							
CONS.RE.3720	Road Formation to Road Base	45d	24-Jan-18	20-Mar-18	-321d	CAL 2 - 6 day	
CONS.RE.3730	Road Formation to Base Course	36d	07-Mar-18	21-Apr-18	-321d	CAL 2 - 6 day	
Installation of Railing and Fencing + Road Lighting and Signages							
CONS.RE.3740	Install Road Railing and Fencing	36d	11-Apr-18	24-May-18	-321d	CAL 2 - 6 day	
CONS.RE.3750	Install Road Lighting and Signages	36d	03-May-18	14-Jun-18	-321d	CAL 2 - 6 day	
Road SOL 101 / 109 / 114 (Phase 2)							
Kerbing and Footings for Railing, Fencing, Signages and Road Lighting							
CONS.RE.4420	Excavate and Construct Footings for Road Lightings / Railing /	60d	02-Nov-17	15-Jan-18	-311d	CAL 2 - 6 day	
CONS.RE.4430	Road Formation to Sub-base	45d	04-Dec-17	29-Jan-18	-311d	CAL 2 - 6 day	
CONS.RE.4440	Construct Precast Road Kerbings	45d	18-Dec-17	12-Feb-18	-311d	CAL 2 - 6 day	
Road Works to Road Base and Base Course							
CONS.RE.4380	Road Formation to Road Base	45d	25-Jan-18	22-Mar-18	-311d	CAL 2 - 6 day	
CONS.RE.4390	Road Formation to Base Course	36d	22-Feb-18	10-Apr-18	-311d	CAL 2 - 6 day	
Installation of Railing and Fencing + Road Lighting and Signages							
CONS.RE.4400	Install Road Railing and Fencing	36d	24-Mar-18	11-May-18	-311d	CAL 2 - 6 day	
CONS.RE.4410	Install Road Lighting and Signages	36d	19-Apr-18	02-Jun-18	-311d	CAL 2 - 6 day	
Road SOL 102 (Phase 1)							
Kerbing and Footings for Railing, Fencing, Signages and Road Lighting							
CONS.RE.4150	Excavate and Construct Footings for Road Lightings / Railing /	60d	09-Sep-17	21-Nov-17	-264d	CAL 2 - 6 day	
CONS.RE.4170	Road Formation to Sub-base	60d	23-Sep-17	05-Dec-17	-264d	CAL 2 - 6 day	
CONS.RE.4160	Construct Precast Road Kerbings	60d	10-Oct-17	19-Dec-17	-264d	CAL 2 - 6 day	
Road Works to Road Base and Base Course							
CONS.RE.4100	Road Formation to Road Base	50d	20-Nov-17	19-Jan-18	-264d	CAL 2 - 6 day	

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Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
CONS.RE.4110	Road Formation to Base Course	45d	23-Dec-17	20-Feb-18	-264d	CAL 2 - 6 day	
Installation of Railing and Fencing + Road Lighting and Signages							
CONS.RE.4180	Install Road Railing and Fencing	36d	25-Jan-18	10-Mar-18	-264d	CAL 2 - 6 day	
CONS.RE.4190	Install Road Lighting and Signages	36d	08-Feb-18	24-Mar-18	-264d	CAL 2 - 6 day	
Final Paving and Road Markings							
CONS.RE.4020	Final Road Paving (Wearing Course)	11d	14-Mar-18	26-Mar-18	-264d	CAL 2 - 6 day	
CONS.RE.4030	Road Markings and Road Signages	9d	23-Mar-18	06-Apr-18	-264d	CAL 2 - 6 day	
Road SOL 102 (Phase 2)							
Kerbing and Footings for Railing, Fencing, Signages and Road Lighting							
CONS.RE.4490	Excavate and Construct Footings for Road Lightings / Railing /	60d	02-Nov-17	15-Jan-18	-324d	CAL 2 - 6 day	
CONS.RE.4510	Road Formation to Sub-base	60d	16-Nov-17	29-Jan-18	-324d	CAL 2 - 6 day	
CONS.RE.4500	Construct Precast Road Kerbings	60d	30-Nov-17	12-Feb-18	-324d	CAL 2 - 6 day	
Road Works to Road Base and Base Course							
CONS.RE.4470	Road Formation to Road Base	50d	12-Jan-18	15-Mar-18	-324d	CAL 2 - 6 day	
CONS.RE.4480	Road Formation to Base Course	45d	15-Feb-18	17-Apr-18	-324d	CAL 2 - 6 day	
Installation of Railing and Fencing + Road Lighting and Signages							
CONS.RE.4520	Install Road Railing and Fencing	36d	29-Mar-18	16-May-18	-324d	CAL 2 - 6 day	
CONS.RE.4530	Install Road Lighting and Signages	36d	17-Apr-18	31-May-18	-324d	CAL 2 - 6 day	
Final Paving and Road Markings							
CONS.RE.4450	Final Road Paving (Wearing Course)	11d	30-May-18	12-Jun-18	-324d	CAL 2 - 6 day	
CONS.RE.4460	Road Markings and Road Signages	9d	07-Jun-18	19-Jun-18	-324d	CAL 2 - 6 day	
Road SOL 107 / 113 (Phase 1)							
Kerbing and Footings for Railing, Fencing, Signages and Road Lighting							
CONS.RE.3930	Excavate and Construct Footings for Road Lightings / Railing /	45d	26-May-17	19-Jul-17	-165d	CAL 2 - 6 day	
CONS.RE.3940	Road Formation to Sub-base	45d	10-Jun-17	02-Aug-17	-165d	CAL 2 - 6 day	
CONS.RE.3950	Construct Precast Road Kerbings	45d	24-Jun-17	16-Aug-17	-165d	CAL 2 - 6 day	
Road Works to Road Base and Base Course							
CONS.RE.3960	Road Formation to Road Base	45d	17-Jul-17	06-Sep-17	-165d	CAL 2 - 6 day	
CONS.RE.3970	Road Formation to Base Course	36d	17-Aug-17	27-Sep-17	-163d	CAL 2 - 6 day	
Installation of Railing and Fencing + Road Lighting and Signages							
CONS.RE.3980	Install Road Railing and Fencing	36d	16-Sep-17	31-Oct-17	-163d	CAL 2 - 6 day	
CONS.RE.3990	Install Road Lighting and Signages	36d	13-Oct-17	24-Nov-17	-163d	CAL 2 - 6 day	
Final Paving and Road Markings							
CONS.RE.4000	Final Road Paving (Wearing Course)	10d	14-Nov-17	24-Nov-17	-163d	CAL 2 - 6 day	
CONS.RE.4010	Road Markings and Road Signages	8d	20-Nov-17	28-Nov-17	-163d	CAL 2 - 6 day	
Road SOL 107 / 113 (Phase 2)							
Kerbing and Footings for Railing, Fencing, Signages and Road Lighting							
CONS.RE.4540	Excavate and Construct Footings for Road Lightings / Railing /	45d	26-May-17	19-Jul-17	-135d	CAL 2 - 6 day	
CONS.RE.4550	Road Formation to Sub-base	45d	10-Jun-17	02-Aug-17	-159d	CAL 2 - 6 day	
CONS.RE.4560	Construct Precast Road Kerbings	45d	24-Jun-17	16-Aug-17	-159d	CAL 2 - 6 day	
Road Works to Road Base and Base Course							
CONS.RE.4570	Road Formation to Road Base	45d	17-Jul-17	06-Sep-17	-165d	CAL 2 - 6 day	
CONS.RE.4580	Road Formation to Base Course	36d	24-Aug-17	06-Oct-17	-165d	CAL 2 - 6 day	
Installation of Railing and Fencing + Road Lighting and Signages							
CONS.RE.4590	Install Road Railing and Fencing	36d	07-Oct-17	18-Nov-17	-165d	CAL 2 - 6 day	
CONS.RE.4600	Install Road Lighting and Signages	36d	13-Oct-17	24-Nov-17	-160d	CAL 2 - 6 day	
Final Paving and Road Markings							
CONS.RE.4620	Road Markings and Road Signages	8d	20-Nov-17	28-Nov-17	-163d	CAL 2 - 6 day	
CONS.RE.4610	Final Road Paving (Wearing Course)	10d	20-Nov-17	30-Nov-17	-165d	CAL 2 - 6 day	
Road SOL 108 / 106 & SOL 110							
Adjacent to Road SOL 108 / 106, Abutment A901 and SOL 110							
CONS.RE.3620	Excavate and Construct footing for Railing and Road lighting	8d	18-May-17	26-May-17	-303d	CAL 2 - 6 day	
CONS.RE.3630	Road formation to Subbase	6d	27-May-17	03-Jun-17	-303d	CAL 2 - 6 day	
CONS.RE.3640	Construct Precast Road Kerbings	6d	05-Jun-17	10-Jun-17	-303d	CAL 2 - 6 day	
CONS.RE.3650	Road formation to Road base and Base course	8d	12-Jun-17	20-Jun-17	-303d	CAL 2 - 6 day	
CONS.RE.3660	Install Road Lighting, Railing and Signages	4d	21-Jun-17	24-Jun-17	-303d	CAL 2 - 6 day	
CONS.RE.3670	Final Road Paving and Road markings (KD13 - Completion of	4d	26-Jun-17	29-Jun-17	-303d	CAL 2 - 6 day	
Portion A1 and A2 - Sub-Base Area							
CONS.A1.8710	Demobilisation of Temporary Facilities on Site	24d	18-May-18	15-Jun-18	581d	CAL 2 - 6 day	
CONS.A1.8720	Site Survey / Site Clearing	12d	16-Jun-18	30-Jun-18	581d	CAL 2 - 6 day	
CONS.A1.8730	Area to Formation Level	20d	03-Jul-18	25-Jul-18	581d	CAL 2 - 6 day	
CONS.A1.8740	Sub-Base Material Topping (Area 29,963 m2 x 100mm thk Subbase)	40d	26-Jul-18	10-Sep-18	581d	CAL 2 - 6 day	
Area 3 (in Portion A6)							
Final Paving and Road Markings							
Portion A6 - Final Paving and Road Markings							
CONS.RE.3780	Road Clearing	10d	10-Apr-19	25-Apr-19	-386d	CAL 2 - 6 day	

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CONS.RE.3790	Road Base and Final Road Paving to Wearing Course	40d	25-Apr-19	14-Jun-19	-386d	CAL 2 - 6 day	Note: Late Final Paving due to Site Logistics
CONS.RE.3800	Road Markings and Road Signages	40d	12-Jul-19	28-Aug-19	-386d	CAL 2 - 6 day	
Landscaping and Irrigation System							
Landscaping - Water Meter W04							
Zone AC4							
CONS.A1.8120	Commence Landscape Works in Zone AC4 (after Bridgeworks	0d	20-Oct-17*		-362d	CAL 2 - 6 day	Area 32,410 m2
CONS.A1.8130	Top Soil to Landscaped Areas (600mm)	98d	20-Oct-17	15-Feb-18	-362d	CAL 2 - 6 day	19,446 m3 / 200 m3 / day
CONS.A1.8140	Install Irrigation System Main Lines (900mm dia)	60d	12-Jan-18	26-Mar-18	-362d	CAL 2 - 6 day	
CONS.A1.8150	Install Lateral Irrigation Pipes & Sprinklers	60d	20-Feb-18	05-May-18	-362d	CAL 2 - 6 day	
CONS.A1.8160	Irrigation Coverage Test	18d	07-May-18	28-May-18	-362d	CAL 2 - 6 day	
CONS.A1.8170	Soft Landscaping - Shrubs Planting / Ground Cover	56d	29-May-18	03-Aug-18	-362d	CAL 2 - 6 day	Area 32,410 m2 / 10 m2 / manday / 40 workers
CONS.A1.8180	Complete Landscape Works Zone AC4	0d		03-Aug-18	-362d	CAL 2 - 6 day	KD8
Zone BC4							
CONS.A1.8200	Commence Landscape Works in Zone BC4	0d	16-Dec-17		-362d	CAL 2 - 6 day	Area 22,400 m2
CONS.A1.8210	Top Soil to Landscaped Areas	90d	16-Dec-17	11-Apr-18	-362d	CAL 2 - 6 day	13,440 m3 / 150m3 / day
CONS.A1.8220	Install Irrigation System Main Lines (900mm dia)	60d	01-Mar-18	15-May-18	-362d	CAL 2 - 6 day	
CONS.A1.8230	Install Lateral Irrigation Pipes & Sprinklers	30d	14-May-18	19-Jun-18	-362d	CAL 2 - 6 day	
CONS.A1.8240	Irrigation Coverage Test	12d	20-Jun-18	04-Jul-18	-362d	CAL 2 - 6 day	
CONS.A1.8250	Soft Landscaping - Shrubs Planting / Ground Cover	26d	05-Jul-18	03-Aug-18	-362d	CAL 2 - 6 day	Area 22,400 m2 / 10 m2 / manday / 40 workers
CONS.A1.8260	Complete Landscape Works in Zone BC4	0d		03-Aug-18	-362d	CAL 2 - 6 day	
Zone CC4							
CONS.A1.8280	Commence Landscape Works in Zone CC4	0d	09-Mar-18		-362d	CAL 2 - 6 day	Area 7000 m2
CONS.A1.8290	Top Soil to Landscaped Areas	42d	09-Mar-18	02-May-18	-362d	CAL 2 - 6 day	4200 m3 / 100 m2 / day
CONS.A1.8300	Install Irrigation System Main Lines (900mm dia)	30d	03-May-18	07-Jun-18	-362d	CAL 2 - 6 day	
CONS.A1.8310	Install Lateral Irrigation Pipes & Sprinklers	21d	08-Jun-18	04-Jul-18	-362d	CAL 2 - 6 day	
CONS.A1.8320	Irrigation Coverage Test	6d	05-Jul-18	11-Jul-18	-362d	CAL 2 - 6 day	
CONS.A1.8330	Soft Landscaping - Shrubs Planting / Ground Cover	20d	12-Jul-18	03-Aug-18	-362d	CAL 2 - 6 day	7000 m2 / 10 m2 / 30 Workers
CONS.A1.8340	Complete Landscape Works in Zone CC4	0d		03-Aug-18	-362d	CAL 2 - 6 day	
Zone DC4							
CONS.A1.8360	Commence Landscape Works in DC4	0d	03-May-18		-362d	CAL 2 - 6 day	Area 130 m2
CONS.A1.8370	Top Soil to Landscaped Areas	2d	03-May-18	04-May-18	-362d	CAL 2 - 6 day	78 m3
CONS.A1.8380	Install Irrigation System Main Lines (900mm dia)	12d	05-May-18	18-May-18	-362d	CAL 2 - 6 day	
CONS.A1.8390	Install Lateral Irrigation Pipes & Sprinklers	12d	19-May-18	02-Jun-18	-362d	CAL 2 - 6 day	
CONS.A1.8400	Irrigation Coverage Test	2d	04-Jun-18	05-Jun-18	-362d	CAL 2 - 6 day	
CONS.A1.8410	Soft Landscaping - Shrubs Planting / Ground Cover	3d	06-Jun-18	08-Jun-18	-362d	CAL 2 - 6 day	130 m2 / 10 m2 / 5 workers
CONS.A1.8420	Complete Landscape Works in Portion C1 (West Section)	0d		08-Jun-18	-362d	CAL 2 - 6 day	
Zone EC4							
CONS.A1.8440	Commence Landscape Works in Zone EC4	0d	05-May-18		-362d	CAL 2 - 6 day	Area 2300 m2
CONS.A1.8450	Top Soil to Landscaped Areas	14d	05-May-18	21-May-18	-362d	CAL 2 - 6 day	1380 m3 / 100 m3 / day
CONS.A1.8460	Install Irrigation System Main Lines	12d	23-May-18	05-Jun-18	-362d	CAL 2 - 6 day	
CONS.A1.8470	Install Lateral Irrigation Pipes & Sprinklers	12d	06-Jun-18	20-Jun-18	-362d	CAL 2 - 6 day	
CONS.A1.8480	Irrigation Coverage Test	6d	21-Jun-18	27-Jun-18	-362d	CAL 2 - 6 day	
CONS.A1.8490	Soft Landscaping - Shrubs Planting / Ground Cover	12d	28-Jun-18	12-Jul-18	-362d	CAL 2 - 6 day	2300 m2 / 10 m2 / manday / 20 workers
CONS.A1.8500	Complete Landscape Works in Portion C1 (West Section)	0d		12-Jul-18	-362d	CAL 2 - 6 day	
Zone FC4							
CONS.A1.8520	Commence Landscape Works in Zone FC4	0d	23-May-18		-362d	CAL 2 - 6 day	Area 1800 m2
CONS.A1.8530	Top Soil to Landscaped Areas	23d	23-May-18	19-Jun-18	-362d	CAL 2 - 6 day	1080 m3 / 100 m3 /day
CONS.A1.8540	Install Irrigation System Main Lines (900mm dia)	12d	20-Jun-18	04-Jul-18	-362d	CAL 2 - 6 day	
CONS.A1.8550	Install Lateral Irrigation Pipes & Sprinklers	12d	05-Jul-18	18-Jul-18	-362d	CAL 2 - 6 day	
CONS.A1.8560	Irrigation Coverage Test	3d	19-Jul-18	21-Jul-18	-362d	CAL 2 - 6 day	
CONS.A1.8570	Soft Landscaping - Shrubs Planting / Ground Cover	11d	23-Jul-18	03-Aug-18	-362d	CAL 2 - 6 day	1800 m2 / 10 m2 / manday / 20 workers
CONS.A1.8580	Complete Landscape Works in Zone FC4	0d		03-Aug-18	-362d	CAL 2 - 6 day	
Landscape Softworks in Portion A6 and B5							
CONS.A1.8590	Commence Landscape Works in Zone AC4 in Portion A6 & B5	0d	04-Jul-18*		-386d	CAL 2 - 6 day	Area 13,890 m2
CONS.A1.8595	Clearing of unsuitable materials	14d	04-Jul-18	20-Jul-18	-386d	CAL 2 - 6 day	
CONS.A1.8600	Top Soil to Landscaped Areas	74d	20-Jul-18	18-Oct-18	-386d	CAL 2 - 6 day	8,334 m3 / 100 m3 / day
CONS.A1.8610	Install Irrigation System Main Lines (900mm dia)	70d	18-Oct-18	11-Jan-19	-386d	CAL 2 - 6 day	
CONS.A1.8620	Install Lateral Irrigation Pipes & Sprinklers	60d	11-Jan-19	26-Mar-19	-386d	CAL 2 - 6 day	
CONS.A1.8630	Irrigation Coverage Test	12d	26-Mar-19	10-Apr-19	-386d	CAL 2 - 6 day	
CONS.A1.8640	Soft Landscaping - Shrubs Planting / Ground Cover	90d	10-Apr-19	01-Aug-19	-386d	CAL 2 - 6 day	Area 13,890 m2 / 10 m2 / manday / 20 workers
CONS.A1.8650	Complete Landscape Works Zone AC4 (KD16)	0d		01-Aug-19	-386d	CAL 2 - 6 day	KD14
CONS.A1.8660	Establishment Works for Landscape Softworks in Portion	365d	28-Aug-19	27-Aug-20	-474d	CAL 1 - 7 day	KD16
Landscaping - Water Meter W02							
Zone BC4							
CONS.C1.8200	Commence Landscape Works (Portion C1)	0d	11-Oct-17		-362d	CAL 2 - 6 day	Area 15,470 m2
CONS.C1.8210	Top Soil to Landscaped Areas	55d	11-Oct-17	14-Dec-17	-362d	CAL 2 - 6 day	9,282 m3 / 200 m3 / day

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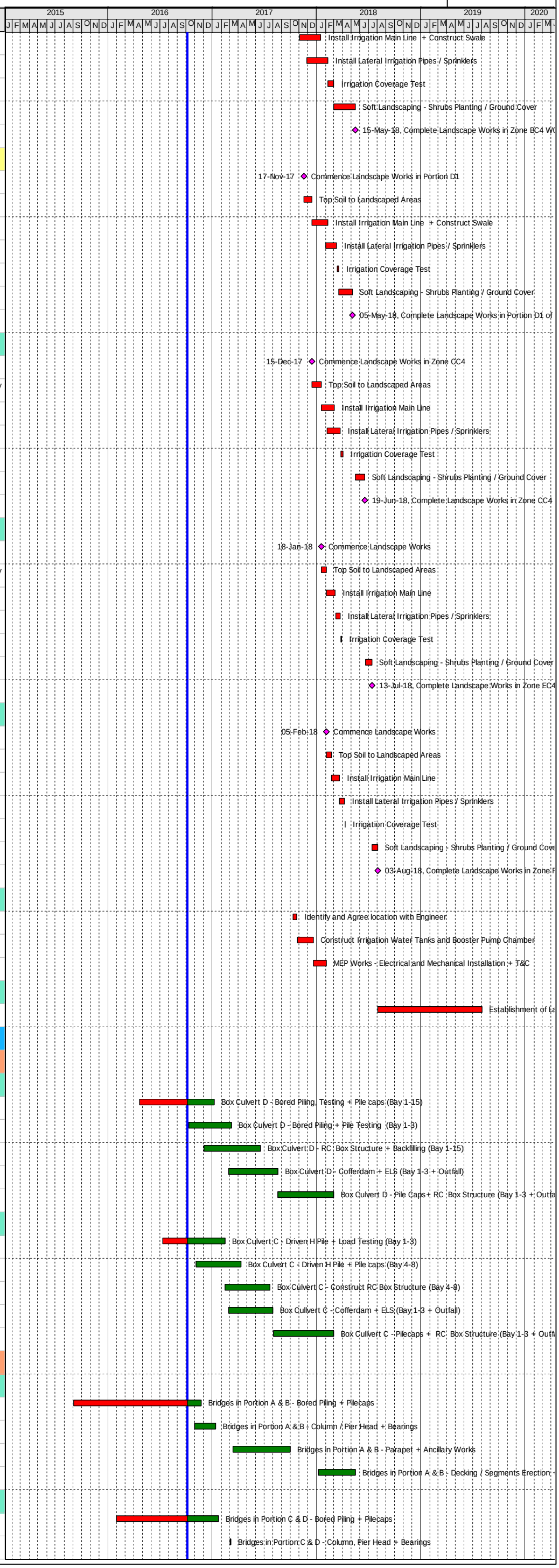
Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
CONS.C1.8220	Install Irrigation Main Line + Construct Swale	60d	03-Nov-17	15-Jan-18	-362d	CAL 2 - 6 day	
CONS.C1.8230	Install Lateral Irrigation Pipes / Sprinklers	60d	28-Nov-17	08-Feb-18	-362d	CAL 2 - 6 day	
CONS.C1.8240	Irrigation Coverage Test	14d	09-Feb-18	28-Feb-18	-362d	CAL 2 - 6 day	
CONS.C1.8250	Soft Landscaping - Shrubs Planting / Ground Cover	60d	01-Mar-18	15-May-18	-362d	CAL 2 - 6 day	15,470 m2 / 10m2 / day / 26 workers
CONS.C1.8260	Complete Landscape Works in Zone BC4 W02	0d		15-May-18	-362d	CAL 2 - 6 day	
Zone BC4 in Portion D1							
CONS.C1.8600	Commence Landscape Works in Portion D1	0d	17-Nov-17		-323d	CAL 2 - 6 day	Area 2,730 m2
CONS.C1.8610	Top Soil to Landscaped Areas	25d	17-Nov-17	15-Dec-17	-323d	CAL 2 - 6 day	1638 m3 / 100 m3 / day
CONS.C1.8620	Install Irrigation Main Line + Construct Swale	44d	16-Dec-17	08-Feb-18	-323d	CAL 2 - 6 day	
CONS.C1.8630	Install Lateral Irrigation Pipes / Sprinklers	30d	02-Feb-18	12-Mar-18	-323d	CAL 2 - 6 day	
CONS.C1.8640	Irrigation Coverage Test	6d	13-Mar-18	19-Mar-18	-323d	CAL 2 - 6 day	
CONS.C1.8650	Soft Landscaping - Shrubs Planting / Ground Cover	36d	20-Mar-18	05-May-18	-323d	CAL 2 - 6 day	2730 m2 / 10m2 / day / 10 workers
CONS.C1.8660	Complete Landscape Works in Portion D1 of Zone BC4 W02	0d		05-May-18	-323d	CAL 2 - 6 day	
Zone CC4							
CONS.C1.8270	Commence Landscape Works in Zone CC4	0d	15-Dec-17		-362d	CAL 2 - 6 day	Area 4,200 m2
CONS.C1.8280	Top Soil to Landscaped Areas	26d	15-Dec-17	17-Jan-18	-362d	CAL 2 - 6 day	2,520 m3 / 100 m3 / day
CONS.C1.8290	Install Irrigation Main Line	36d	18-Jan-18	03-Mar-18	-362d	CAL 2 - 6 day	
CONS.C1.8300	Install Lateral Irrigation Pipes / Sprinklers	36d	08-Feb-18	24-Mar-18	-362d	CAL 2 - 6 day	
CONS.C1.8310	Irrigation Coverage Test	6d	26-Mar-18	04-Apr-18	-362d	CAL 2 - 6 day	
CONS.C1.8320	Soft Landscaping - Shrubs Planting / Ground Cover	28d	16-May-18	19-Jun-18	-362d	CAL 2 - 6 day	4,200 m2 /10 m2 / 15 workers
CONS.C1.8330	Complete Landscape Works in Zone CC4	0d		19-Jun-18	-362d	CAL 2 - 6 day	
Zone EC4							
CONS.C1.8340	Commence Landscape Works	0d	18-Jan-18		-362d	CAL 2 - 6 day	Area 2,400 m2
CONS.C1.8350	Top Soil to Landscaped Areas	15d	18-Jan-18	03-Feb-18	-362d	CAL 2 - 6 day	1,440 m3 / 100 m3 / day
CONS.C1.8360	Install Irrigation Main Line	24d	05-Feb-18	07-Mar-18	-362d	CAL 2 - 6 day	
CONS.C1.8370	Install Lateral Irrigation Pipes / Sprinklers	15d	08-Mar-18	24-Mar-18	-362d	CAL 2 - 6 day	
CONS.C1.8380	Irrigation Coverage Test	3d	26-Mar-18	28-Mar-18	-362d	CAL 2 - 6 day	
CONS.C1.8390	Soft Landscaping - Shrubs Planting / Ground Cover	20d	20-Jun-18	13-Jul-18	-362d	CAL 2 - 6 day	2400 m2 / 10 m2 / 12 workers
CONS.C1.8400	Complete Landscape Works in Zone EC4 W02	0d		13-Jul-18	-362d	CAL 2 - 6 day	
Zone FC4							
CONS.C1.8410	Commence Landscape Works	0d	05-Feb-18		-362d	CAL 2 - 6 day	Area 1,800 m2
CONS.C1.8420	Top Soil to Landscaped Areas	12d	05-Feb-18	21-Feb-18	-362d	CAL 2 - 6 day	1080 m3 / 100 m3 / day
CONS.C1.8430	Install Irrigation Main Line	24d	22-Feb-18	21-Mar-18	-362d	CAL 2 - 6 day	
CONS.C1.8440	Install Lateral Irrigation Pipes / Sprinklers	12d	22-Mar-18	09-Apr-18	-362d	CAL 2 - 6 day	
CONS.C1.8450	Irrigation Coverage Test	2d	10-Apr-18	11-Apr-18	-362d	CAL 2 - 6 day	
CONS.C1.8460	Soft Landscaping - Shrubs Planting / Ground Cover	18d	14-Jul-18	03-Aug-18	-362d	CAL 2 - 6 day	1800 m2 / 10 m2 / 10 workers
CONS.C1.8470	Complete Landscape Works in Zone FC4 W02	0d		03-Aug-18	-362d	CAL 2 - 6 day	
Irrigation Water Tanks and Booster Pumps							
CONS.C1.8790	Identify and Agree location with Engineer	12d	11-Oct-17	24-Oct-17	-358d	CAL 2 - 6 day	
CONS.C1.8800	Construct Irrigation Water Tanks and Booster Pump Chamber	48d	25-Oct-17	20-Dec-17	-358d	CAL 2 - 6 day	
CONS.C1.8810	MEP Works - Electrical and Mechanical Installation + T&C	36d	21-Dec-17	03-Feb-18	-358d	CAL 2 - 6 day	
Establishment Period (1 year)							
CONS.C1.8190	Establishment of Landscape Works	365d	04-Aug-18	03-Aug-19	-444d	CAL 1 - 7 day	
Executive Summary							
Box Culverts							
Box Culvert D							
BCD.ES.1010	Box Culvert D - Bored Piling, Testing + Pile caps (Bay 1-15)	170d	21-Apr-16 A	06-Jan-17	-539d	CAL 2 - 6 day	
BCD.ES.1030	Box Culvert D - Bored Piling + Pile Testing (Bay 1-3)	122d	11-Oct-16	08-Mar-17	-226d	CAL 2 - 6 day	
BCD.ES.1020	Box Culvert D - RC Box Structure + Backfilling (Bay 1-15)	156d	02-Dec-16	17-Jun-17	-539d	CAL 2 - 6 day	
BCD.ES.1040	Box Culvert D - Cofferdam + ELS (Bay 1-3 + Outfall)	141d	27-Feb-17	19-Aug-17	-238d	CAL 2 - 6 day	
BCD.ES.1050	Box Culvert D - Pile Caps+ RC Box Structure (Bay 1-3 + Outfall)	158d	19-Aug-17	02-Mar-18	-238d	CAL 2 - 6 day	
Box Culvert C							
BCC.ES.2030	Box Culvert C - Driven H Pile + Load Testing (Bay 1-3)	79d	12-Jul-16 A	15-Feb-17	-227d	CAL 2 - 6 day	
BCC.ES.2010	Box Culvert C - Driven H Pile + Pile caps (Bay 4-8)	128d	05-Nov-16	11-Apr-17	-309d	CAL 2 - 6 day	
BCC.ES.2020	Box Culvert C - Construct RC Box Structure (Bay 4-8)	129d	14-Feb-17	22-Jul-17	-309d	CAL 2 - 6 day	
BCC.ES.2040	Box Cullvert C - Cofferdam + ELS (Bay 1-3 + Outfall)	126d	27-Feb-17	01-Aug-17	-236d	CAL 2 - 6 day	
BCC.ES.2050	Box Cullvert C - Pilecaps + RC Box Structure (Bay 1-3 + Outfall)	172d	02-Aug-17	28-Feb-18	-236d	CAL 2 - 6 day	
Bridge Works							
Bridges in Portion A & B							
BRG.ES.1010	Bridges in Portion A & B - Bored Piling + Pilecaps	490d	05-Sep-15 A	23-Nov-16	-338d	CAL 2 - 6 day	
BRG.ES.1020	Bridges in Portion A & B - Column / Pier Head + Bearings	61d	31-Oct-16	13-Jan-17	0d	CAL 2 - 6 day	
BRG.ES.1040	Bridges in Portion A & B - Parapet + Ancillary Works	164d	14-Mar-17	29-Sep-17	-129d	CAL 2 - 6 day	
BRG.ES.1030	Bridges in Portion A & B - Decking / Segments Erection + Stitching	102d	08-Jan-18	16-May-18	-370d	CAL 2 - 6 day	
Bridges in Portion C & D							
BRG.ES.2010	Bridges in Portion C & D - Bored Piling + Pilecaps	288d	01-Feb-16 A	23-Jan-17	-367d	CAL 2 - 6 day	
BRG.ES.2020	Bridges in Portion C & D - Column, Pier Head + Bearings	2d	04-Mar-17	06-Mar-17	-367d	CAL 2 - 6 day	



HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion)

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
BRG.ES.2030	Bridges in Portion C & D - Decking / Segments Erection + Stitching	104d	11-May-17	11-Sep-17	-447d	CAL 2 - 6 day	
BRG.ES.2040	Bridges in Portion C & D - Parapet + Ancillary Works	0d	26-Oct-17	26-Oct-17	-147d	CAL 2 - 6 day	
Road Works							
Road Works - East of Pump House							
RDE.ES.1010	Road Works East of Pump House - Road Formation + Drainage	296d	13-Feb-17	08-Feb-18	-481d	CAL 2 - 6 day	
RDE.ES.1030	Road Works East of Pump House - Road Formation to Sub-base +	216d	27-May-17	12-Feb-18	-307d	CAL 2 - 6 day	
RDE.ES.1020	Road Works East of Pump House - U/G Utilities	286d	21-Apr-17	09-Apr-18	-481d	CAL 2 - 6 day	
RDE.ES.1040	Road Works East of Pump House - Road Formation to Base Course +	282d	12-Jun-17	24-May-18	-313d	CAL 2 - 6 day	
RDE.ES.1050	Road Works East of Pump House - Final Paving + Road Marking &	174d	14-Nov-17	19-Jun-18	-324d	CAL 2 - 6 day	
Road Works - West of Pump House							
RDW.ES.2010	Road Works West of Pump House - Road Formation + Drainage	149d	07-Jan-17	12-Jul-17	-311d	CAL 2 - 6 day	
RDW.ES.2020	Road Works West of Pump House - U/G Utilities	150d	10-Mar-17	09-Sep-17	-313d	CAL 2 - 6 day	
RDW.ES.2030	Road Works West of Pump House - Road Formation to Sub-base +	120d	22-Jul-17	12-Dec-17	764d	CAL 2 - 6 day	
RDW.ES.2040	Road Works West of Pump House - Road Formation to Base Course	130d	25-Sep-17	05-Mar-18	-234d	CAL 2 - 6 day	
RDW.ES.2050	Road Works West of Pump House - Final Paving + Road Marking &	80d	01-Dec-17	10-Mar-18	-237d	CAL 2 - 6 day	
Sign Gantry							
SGW.ES.1010	Sign Gantry - Driven H-Pile	0d	25-Jul-16 A	18-Oct-16	-158d	CAL 2 - 6 day	
SGW.ES.1020	Sign Gantry - Pile caps	0d	05-Dec-16	05-Dec-16	-178d	CAL 2 - 6 day	
SGW.ES.1030	Sign Gantry - Erection of Sign Gantry	90d	15-Sep-17	05-Jan-18	-408d	CAL 2 - 6 day	
Retaining Walls							
Retaining Walls in Portion A (East)							
RWW.ES.1040	Retaining Walls in Portion A - Excavation	145d	13-Feb-17	09-Aug-17	868d	CAL 2 - 6 day	
RWW.ES.1050	Retaining Walls in Portion A - Construct Base + Wall Stem	153d	03-Mar-17	06-Sep-17	868d	CAL 2 - 6 day	
RWW.ES.1060	Retaining Walls in Portion A - Backfill and Reinstate Road	131d	13-Apr-17	20-Sep-17	868d	CAL 2 - 6 day	
Retaining Walls in Portion C (West)							
RWW.ES.1020	Retaining Walls in Portion C - Construct Base + Wall Stem	21d	28-Aug-17	20-Sep-17	-161d	CAL 2 - 6 day	
RWW.ES.1010	Retaining Walls in Portion C - Excavation	288d	05-Nov-16	25-Oct-17	-183d	CAL 2 - 6 day	
RWW.ES.1030	Retaining Walls in Portion C - Backfill and Reinstate Road	270d	25-Jan-17	21-Dec-17	-183d	CAL 2 - 6 day	
Depressed Road							
DRE.ES.1010	Construction of Depressed Road (Stage 1)	102d	07-Jun-17	06-Oct-17	-119d	CAL 2 - 6 day	
DRW.ES.1010	Construction of Depressed Road (Stage 2)	153d	19-Aug-17	24-Feb-18	-233d	CAL 2 - 6 day	
Pump House							
PHO.ES.1010	Construction of Pump House	379d	02-Sep-16 A	19-Dec-17	-181d	CAL 2 - 6 day	
Irrigation and Landscape							
Landscape Works - Water Meter O4							
LSW.ES.1010	Irrigation & Landscape Works WM04 - Top Soil	294d	20-Oct-17	18-Oct-18	-386d	CAL 2 - 6 day	
LSW.ES.1020	Irrigation & Landscape Works WM04 - Install Irrigation Lines	356d	12-Jan-18	26-Mar-19	-386d	CAL 2 - 6 day	
LSW.ES.1030	Irrigation & Landscape Works WM04 - Soft Landscaping Works	350d	29-May-18	01-Aug-19	-386d	CAL 2 - 6 day	
Landscape Works - Water Meter 02							
LSW.ES.2010	Irrigation & Landscape Works WM02 - Top Soil	56d	11-Oct-17	15-Dec-17	-323d	CAL 2 - 6 day	
LSW.ES.2020	Irrigation & Landscape Works WM02 - Install Irrigation Lines	105d	03-Nov-17	12-Mar-18	-323d	CAL 2 - 6 day	
LSW.ES.2030	Irrigation & Landscape Works WM02 - Soft Landscaping Works	52d	01-Mar-18	05-May-18	-323d	CAL 2 - 6 day	
Essential Works Summary							
Preliminary							
A0001	Site Possession of Portion A	0d	01-Aug-16 A			CAL 2 - 6 day	
A0002	Site Possession of Portion B	0d	31-Aug-16 A			CAL 2 - 6 day	
A0003	Site Possession of Portion C	0d	06-Oct-16*		1153d	CAL 2 - 6 day	
A0004	KD08	0d		04-Jul-18	639d	CAL 2 - 6 day	
A0005	KD14	0d		28-Aug-19	296d	CAL 2 - 6 day	
Bridges							
B0011	Bridge D14a	335d	04-Feb-16 A	09-Jun-17	-20d	CAL 2 - 6 day	
B0003	Bridge D9a	397d	24-Feb-16 A	28-Jul-17	-61d	CAL 2 - 6 day	
B0004	Bridge D9b	0d	09-Jan-16 A	11-Aug-17	-73d	CAL 2 - 6 day	
B0012	Bridge D14b	0d	02-Aug-16 A	26-Sep-17	-112d	CAL 2 - 6 day	
B0006	Bridge D10	0d	12-Jan-16 A	18-Oct-17	-129d	CAL 2 - 6 day	
B0002	Bridge D8	0d	04-May-16 A	02-Nov-17	-141d	CAL 2 - 6 day	
B0013	Bridge D14c	0d	14-Jul-16 A	14-Dec-17	-177d	CAL 2 - 6 day	
B0001	Bridge D1	368d	06-Oct-16	02-Jan-18	-190d	CAL 2 - 6 day	
B0010	Bridge D13	0d	18-May-16 A	24-Feb-18	-233d	CAL 2 - 6 day	
B0007	Bridge D11	282d	27-Jan-16 A	12-Apr-18	-269d	CAL 2 - 6 day	
B0005	Bridge D9c	0d	13-Jan-16 A	03-May-18	-398d	CAL 2 - 6 day	
B0009	Bridge D12b	472d	13-May-16 A	25-Jun-18	-329d	CAL 2 - 6 day	
B0008	Bridge D12a	283d	23-Jun-16 A	04-Jul-18	-336d	CAL 2 - 6 day	
B0014	Bridge D15	519d	26-May-16 A	18-Aug-18	-370d	CAL 2 - 6 day	
B0015	Bridge D16	555d	12-Mar-16 A	21-Aug-18	-370d	CAL 2 - 6 day	
Box Culverts							

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Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks
C0002	Box Culvert D - Phase 1	265d	18-Apr-16 A	17-Jun-17	-539d	CAL 2 - 6 day	
C0001	Box Culvert C - Phase 1	230d	12-Oct-16	22-Jul-17	-309d	CAL 2 - 6 day	
C00022	Box Culvert C - Phase 2 (*Exclude Backfill & Resinstatement)	312d	07-Dec-16	27-Dec-17	-236d	CAL 2 - 6 day	
C00012	Box Culvert D - Phase 2 (*Exclude Backfill & Resinstatement)	363d	11-Oct-16	29-Dec-17	-238d	CAL 2 - 6 day	
At-Grade Roads							
D0006	East of Pump House - SOL 107/113	242d	09-Feb-17	30-Nov-17	810d	CAL 2 - 6 day	
D0002	West of Pump House - SOL 102/106/111	282d	04-Jan-17	14-Dec-17	798d	CAL 2 - 6 day	
D0003	West of Pump House - SOL 104	271d	24-Jan-17	21-Dec-17	792d	CAL 2 - 6 day	
D0001	West of Pump House - SOL 101/105	292d	25-Mar-17	20-Mar-18	722d	CAL 2 - 6 day	
D0005	East of Pump House - SOL 102	329d	23-Feb-17	06-Apr-18	711d	CAL 2 - 6 day	
D0004	East of Pump House - SOL 101/109/114	344d	18-Apr-17	14-Jun-18	654d	CAL 2 - 6 day	
Depressed Road & Pump House							
E0003	Depressed Road (Bay 9 to Bay 10)	102d	07-Jun-17	06-Oct-17	-119d	CAL 2 - 6 day	
E0001	Pump House Cum Switch Room	379d	02-Sep-16 A	19-Dec-17	-181d	CAL 2 - 6 day	
E0002	Depressed Road (Bay 1 to Bay 8)	153d	19-Aug-17	24-Feb-18	-233d	CAL 2 - 6 day	
At-Grade Roads - Roads & Drainages							
East - SOL 107/113							
D00068	Drainages & Utilities	134d	09-Feb-17	24-Jul-17	-336d	CAL 2 - 6 day	
D00078	Road Works	157d	26-May-17	30-Nov-17	810d	CAL 2 - 6 day	
East - SOL 102							
D00098	Road Works (Phase 1)	167d	09-Sep-17	06-Apr-18	711d	CAL 2 - 6 day	
D00088	Drainages & Utilities	330d	23-Feb-17	07-Apr-18	-480d	CAL 2 - 6 day	
D000198	Road Works (Phase 2)	183d	02-Nov-17	19-Jun-18	-324d	CAL 2 - 6 day	
East - SOL 101/109/114							
D000108	Drainages & Utilities	289d	18-Apr-17	09-Apr-18	-481d	CAL 2 - 6 day	
D000208	Road Works (Phase 2)	170d	02-Nov-17	02-Jun-18	664d	CAL 2 - 6 day	
D000118	Road Works (Phase 1)	182d	01-Nov-17	14-Jun-18	654d	CAL 2 - 6 day	
West - SOL 101/105							
D000128	Drainages & Utilities	137d	25-Mar-17	09-Sep-17	-313d	CAL 2 - 6 day	
D000138	Road Works	159d	06-Sep-17	20-Mar-18	722d	CAL 2 - 6 day	
West - SOL 102/106/111							
D000148	Drainages & Utilities	139d	04-Jan-17	26-Jun-17	-249d	CAL 2 - 6 day	
D000158	Road Works	143d	27-Jun-17	14-Dec-17	798d	CAL 2 - 6 day	
West - SOL 104							
D000168	Drainages & Utilities	128d	24-Jan-17	04-Jul-17	-255d	CAL 2 - 6 day	
D000178	Road Works	145d	03-Jul-17	21-Dec-17	792d	CAL 2 - 6 day	