

- NOTES:**  
 STANDARD GENERAL NOTES FOR GREENLINES  
 1. COORDINATES ARE BASED ON HONG KONG METRIC GRID (1980) UNLESS OTHERWISE NOTED.  
 2. LEVELS ARE IN METRES RELATIVE TO HONG KONG PRINCIPAL DATUM 1980 UNLESS OTHERWISE NOTED.  
 3. CHANGES ARE IN METRES.  
 4. THE TEMPORARY RECLAMATION AND TEMPORARY SEAWALL SHOULD BE DESIGNED, MAINTAINED AND REMOVED BY THE CONTRACTOR.

- LEGEND:**
- SITE BOUNDARY
  - PROPOSED CMB CENTRAL - WAN CHAI BYPASS TUNNEL STRUCTURE
  - PROPOSED RECLAMATION EXTENT
  - TEMPORARY RECLAMATION LIMIT



Construction Area of A Dual Three-lane Trunk Road Tunnel of Approximately 550m in length.

**RECEIVED**  
 11 FEB 2010

BY: \_\_\_\_\_

B TENDER ADDENDUM NO.2	SWM/JTL/SEP/09
A TENDER ADDENDUM NO.1	SWM/JTL/SEP/09
TENDER DRAWING	SWM/JTL/AUG/09

CEDD 土木工程拓展署  
 Civil Engineering and Development Department

WAN CHAI DEVELOPMENT PHASE II  
 WAN CHAI DEVELOPMENT PHASE II - CENTRAL - WAN CHAI BYPASS AT WAN CHAI EAST

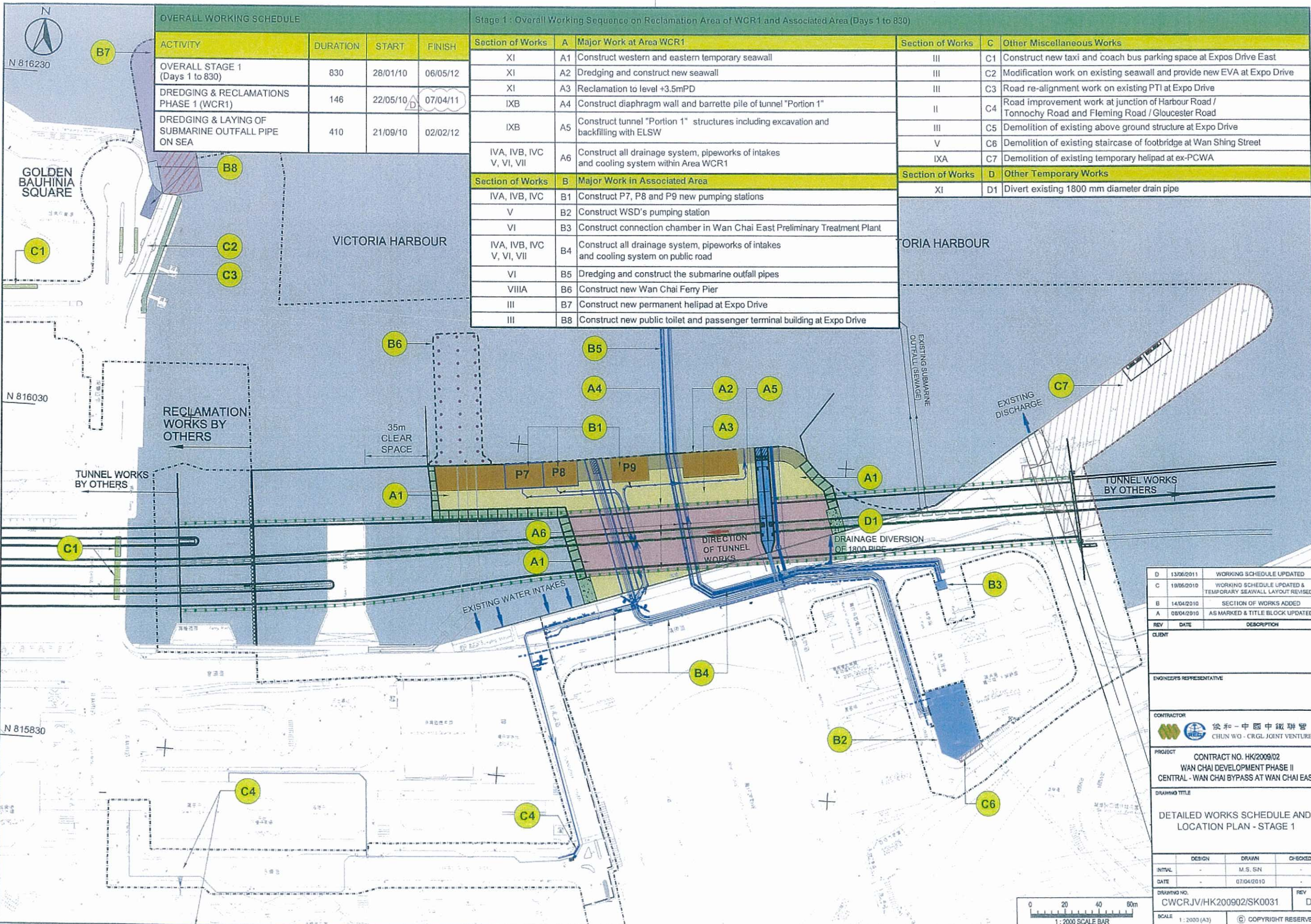
LOCATION KEY PLAN

**AECOM**

DRG. NO. 60041297/C2/100/1000B	DATE: 08/2009/92	SCALE: 1:2500
DESIGNED BY: JST	CHECKED BY: JST	DATE: 08/2009/92
DRAWN BY: ADK	DATE: 08/2009/92	SCALE: 1:2500
DATE: 08/2009/92	SCALE: 1:2500	UNIT: METRES

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OVERALL WORKING SCHEDULE			
ACTIVITY	DURATION	START	FINISH
OVERALL STAGE 1 (Days 1 to 830)	830	28/01/10	06/05/12
DREDGING & RECLAMATIONS PHASE 1 (WCR1)	146	22/05/10	07/04/11
DREDGING & LAYING OF SUBMARINE OUTFALL PIPE ON SEA	410	21/09/10	02/02/12

Stage 1 : Overall Working Sequence on Reclamation Area of WCR1 and Associated Area (Days 1 to 830)					
Section of Works	A	Major Work at Area WCR1	Section of Works	C	Other Miscellaneous Works
XI	A1	Construct western and eastern temporary seawall	III	C1	Construct new taxi and coach bus parking space at Expos Drive East
XI	A2	Dredging and construct new seawall	III	C2	Modification work on existing seawall and provide new EVA at Expo Drive
XI	A3	Reclamation to level +3.5mPD	III	C3	Road re-alignment work on existing PTI at Expo Drive
IXB	A4	Construct diaphragm wall and barrette pile of tunnel "Portion 1"	II	C4	Road improvement work at junction of Harbour Road / Tonnochy Road and Fleming Road / Gloucester Road
IXB	A5	Construct tunnel "Portion 1" structures including excavation and backfilling with ELSW	III	C5	Demolition of existing above ground structure at Expo Drive
IVA, IVB, IVC, V, VI, VII	A6	Construct all drainage system, pipeworks of intakes and cooling system within Area WCR1	V	C6	Demolition of existing staircase of footbridge at Wan Shing Street
Section of Works	B	Major Work in Associated Area	IXA	C7	Demolition of existing temporary helipad at ex-PCWA
IVA, IVB, IVC	B1	Construct P7, P8 and P9 new pumping stations	Section of Works	D	Other Temporary Works
V	B2	Construct WSD's pumping station	XI	D1	Divert existing 1800 mm diameter drain pipe
VI	B3	Construct connection chamber in Wan Chai East Preliminary Treatment Plant			
IVA, IVB, IVC, V, VI, VII	B4	Construct all drainage system, pipeworks of intakes and cooling system on public road			
VI	B5	Dredging and construct the submarine outfall pipes			
VIIIA	B6	Construct new Wan Chai Ferry Pier			
III	B7	Construct new permanent helipad at Expo Drive			
III	B8	Construct new public toilet and passenger terminal building at Expo Drive			

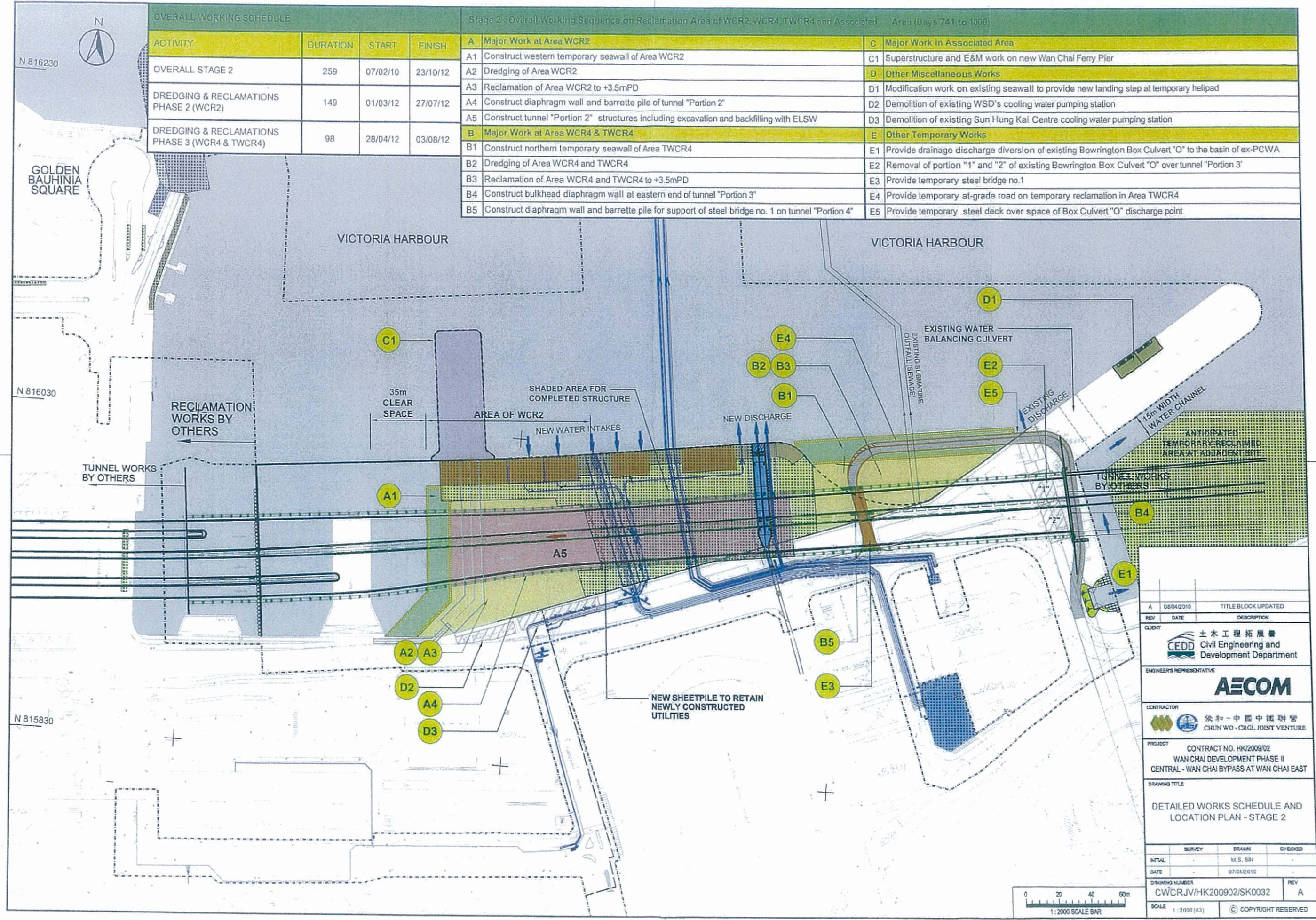
REV	DATE	DESCRIPTION
D	13/06/2011	WORKING SCHEDULE UPDATED
C	18/05/2010	WORKING SCHEDULE UPDATED & TEMPORARY SEAWALL LAYOUT REVISED
B	14/04/2010	SECTION OF WORKS ADDED
A	08/04/2010	AS MARKED & TITLE BLOCK UPDATED

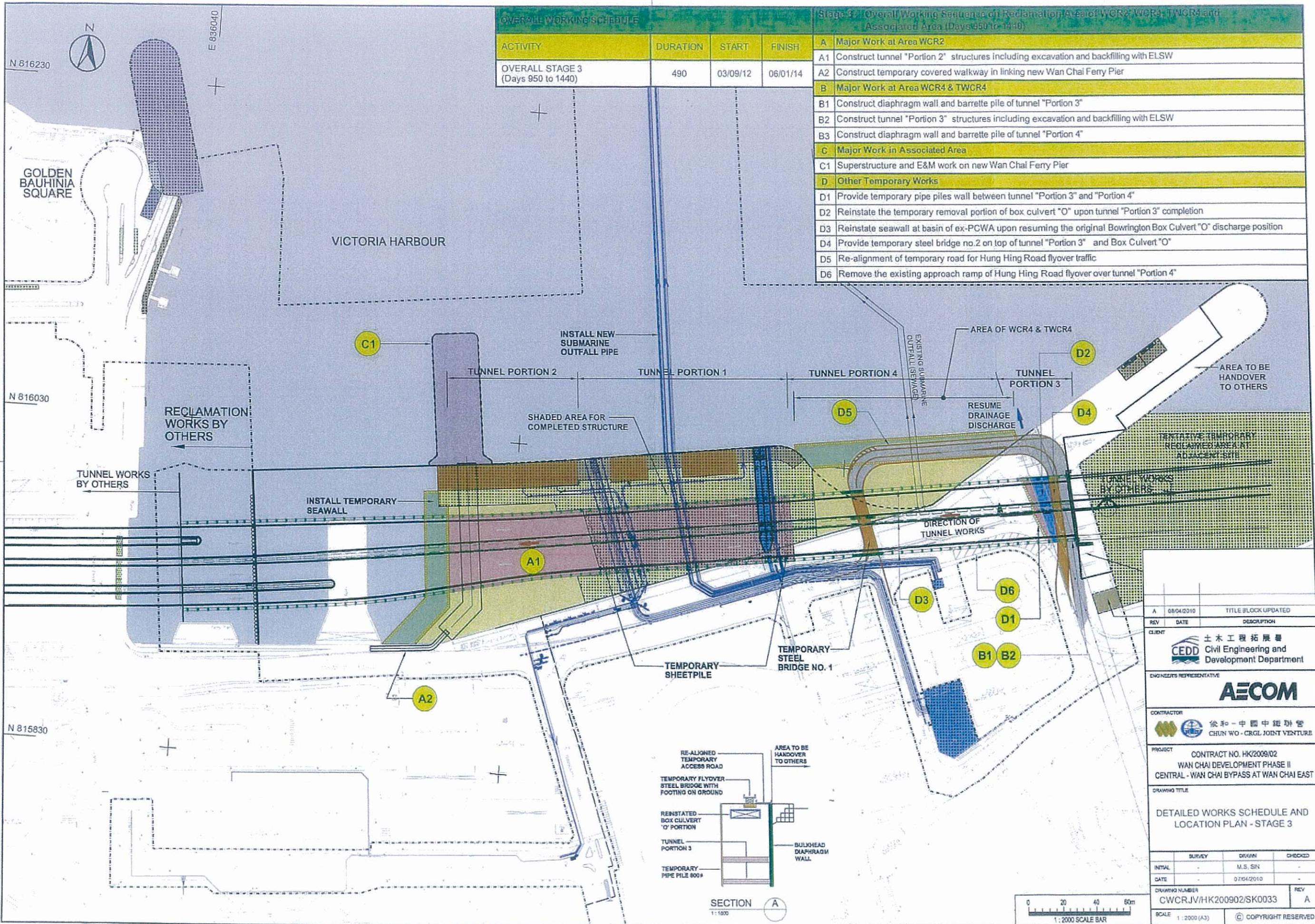
CLIENT	
ENGINEER'S REPRESENTATIVE	
CONTRACTOR	俊和 - 中國中鐵聯營 CHUN WO - CRGL JOINT VENTURE
PROJECT	CONTRACT NO. HK/2009/02 WAN CHAI DEVELOPMENT PHASE II CENTRAL - WAN CHAI BYPASS AT WAN CHAI EAST
DRAWING TITLE	DETAILED WORKS SCHEDULE AND LOCATION PLAN - STAGE 1
DESIGN	M.S. SN
DRAWN	
CHECKED	
DATE	07/04/2010
DRAWING NO.	CWCRJV/HK200902/SK0031
REV	D
SCALE	1:2000 (A3)
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OVERALL WORKING SCHEDULE			
ACTIVITY	DURATION	START	FINISH
OVERALL STAGE 2	259	07/02/10	23/10/12
DREDGING & RECLAMATIONS PHASE 2 (WCR2)	149	01/03/12	27/07/12
DREDGING & RECLAMATIONS PHASE 3 (WCR4 & TWCR4)	98	28/04/12	03/08/12

Stage 2 - Overall Working Sequence on Reclamation Area of WCR2, WCR4, TWCR4 and Associated Area (Days 741 to 1000)			
ACTIVITY	DESCRIPTION	ACTIVITY	DESCRIPTION
<b>A Major Work at Area WCR2</b>		<b>C Major Work in Associated Area</b>	
A1	Construct western temporary seawall of Area WCR2	C1	Superstructure and E&M work on new Wan Chai Ferry Pier
A2	Dredging of Area WCR2	<b>D Other Miscellaneous Works</b>	
A3	Reclamation of Area WCR2 to +3.5mPD	D1	Modification work on existing seawall to provide new landing step at temporary helipad
A4	Construct diaphragm wall and barrette pile of tunnel "Portion 2"	D2	Demolition of existing WSD's cooling water pumping station
A5	Construct tunnel "Portion 2" structures including excavation and backfilling with ELSW	D3	Demolition of existing Sun Hung Kai Centre cooling water pumping station
<b>B Major Work at Area WCR4 &amp; TWCR4</b>		<b>E Other Temporary Works</b>	
B1	Construct northern temporary seawall of Area TWCR4	E1	Provide drainage discharge diversion of existing Bowrington Box Culvert "O" to the basin of ex-PCWA
B2	Dredging of Area WCR4 and TWCR4	E2	Removal of portion "1" and "2" of existing Bowrington Box Culvert "O" over tunnel "Portion 3"
B3	Reclamation of Area WCR4 and TWCR4 to +3.5mPD	E3	Provide temporary steel bridge no.1
B4	Construct bulkhead diaphragm wall at eastern end of tunnel "Portion 3"	E4	Provide temporary at-grade road on temporary reclamation in Area TWCR4
B5	Construct diaphragm wall and barrette pile for support of steel bridge no. 1 on tunnel "Portion 4"	E5	Provide temporary steel deck over space of Box Culvert "O" discharge point



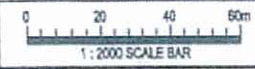
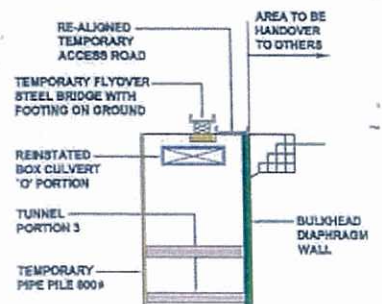
REV	DATE	DESCRIPTION	
A	08/04/2010	TITLE BLOCK UPDATED	
CLIENT			
土木工程拓展署 Civil Engineering and Development Department			
ENGINEER'S REPRESENTATIVE			
CONTRACTOR			
俊和 - 中國中鐵聯營 CHUN WO - CRGL JOINT VENTURE			
PROJECT			
CONTRACT NO. HK/2009/02 WAN CHAI DEVELOPMENT PHASE II CENTRAL - WAN CHAI BYPASS AT WAN CHAI EAST			
DRAWING TITLE			
DETAILED WORKS SCHEDULE AND LOCATION PLAN - STAGE 2			
INITIAL	SURVEY	DRAWN	CHECKED
		M.S. SIN	
DATE	07/04/2010		
DRAWING NUMBER		REV	
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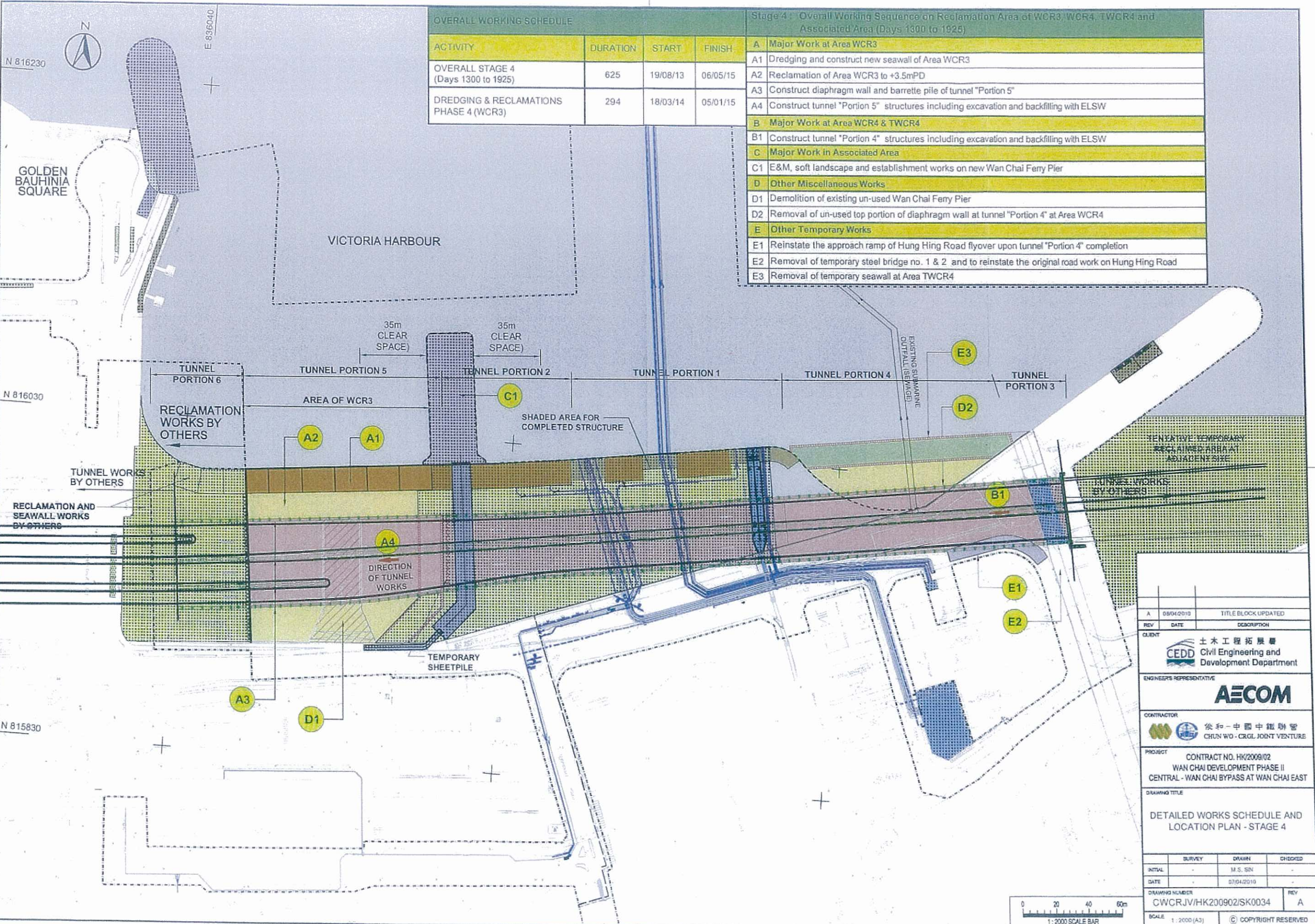


OVERALL WORKING SCHEDULE			
ACTIVITY	DURATION	START	FINISH
OVERALL STAGE 3 (Days 950 to 1440)	490	03/09/12	06/01/14

Stage 3 - Overall Working Sequence of Reclamation Area of WCR2, WCR3, TWCR3 and Associated Area (Days 950 to 1440)	
<b>A</b>	Major Work at Area WCR2
A1	Construct tunnel "Portion 2" structures including excavation and backfilling with ELSW
A2	Construct temporary covered walkway in linking new Wan Chai Ferry Pier
<b>B</b>	Major Work at Area WCR4 & TWCR4
B1	Construct diaphragm wall and barrette pile of tunnel "Portion 3"
B2	Construct tunnel "Portion 3" structures including excavation and backfilling with ELSW
B3	Construct diaphragm wall and barrette pile of tunnel "Portion 4"
<b>C</b>	Major Work in Associated Area
C1	Superstructure and E&M work on new Wan Chai Ferry Pier
<b>D</b>	Other Temporary Works
D1	Provide temporary pipe piles wall between tunnel "Portion 3" and "Portion 4"
D2	Reinstate the temporary removal portion of box culvert "O" upon tunnel "Portion 3" completion
D3	Reinstate seawall at basin of ex-PCWA upon resuming the original Bowington Box Culvert "O" discharge position
D4	Provide temporary steel bridge no.2 on top of tunnel "Portion 3" and Box Culvert "O"
D5	Re-alignment of temporary road for Hung Hing Road flyover traffic
D6	Remove the existing approach ramp of Hung Hing Road flyover over tunnel "Portion 4"

REV	DATE	DESCRIPTION
A	08/04/2010	TITLE BLOCK UPDATED
CLIENT 土木工務拓展署 CEDD Civil Engineering and Development Department		
ENGINEER'S REPRESENTATIVE <b>AECOM</b>		
CONTRACTOR 俊和-中國中鐵聯合 CHUN WO - CRGL JOINT VENTURE		
PROJECT CONTRACT NO. HK/2009/02 WAN CHAI DEVELOPMENT PHASE II CENTRAL - WAN CHAI BYPASS AT WAN CHAI EAST		
DRAWING TITLE DETAILED WORKS SCHEDULE AND LOCATION PLAN - STAGE 3		
INITIAL	SURVEY	DRAWN
DATE		M.S. SIN
		07/04/2010
DRAWING NUMBER CWCRJV/HK200902/SK0033	REV A	
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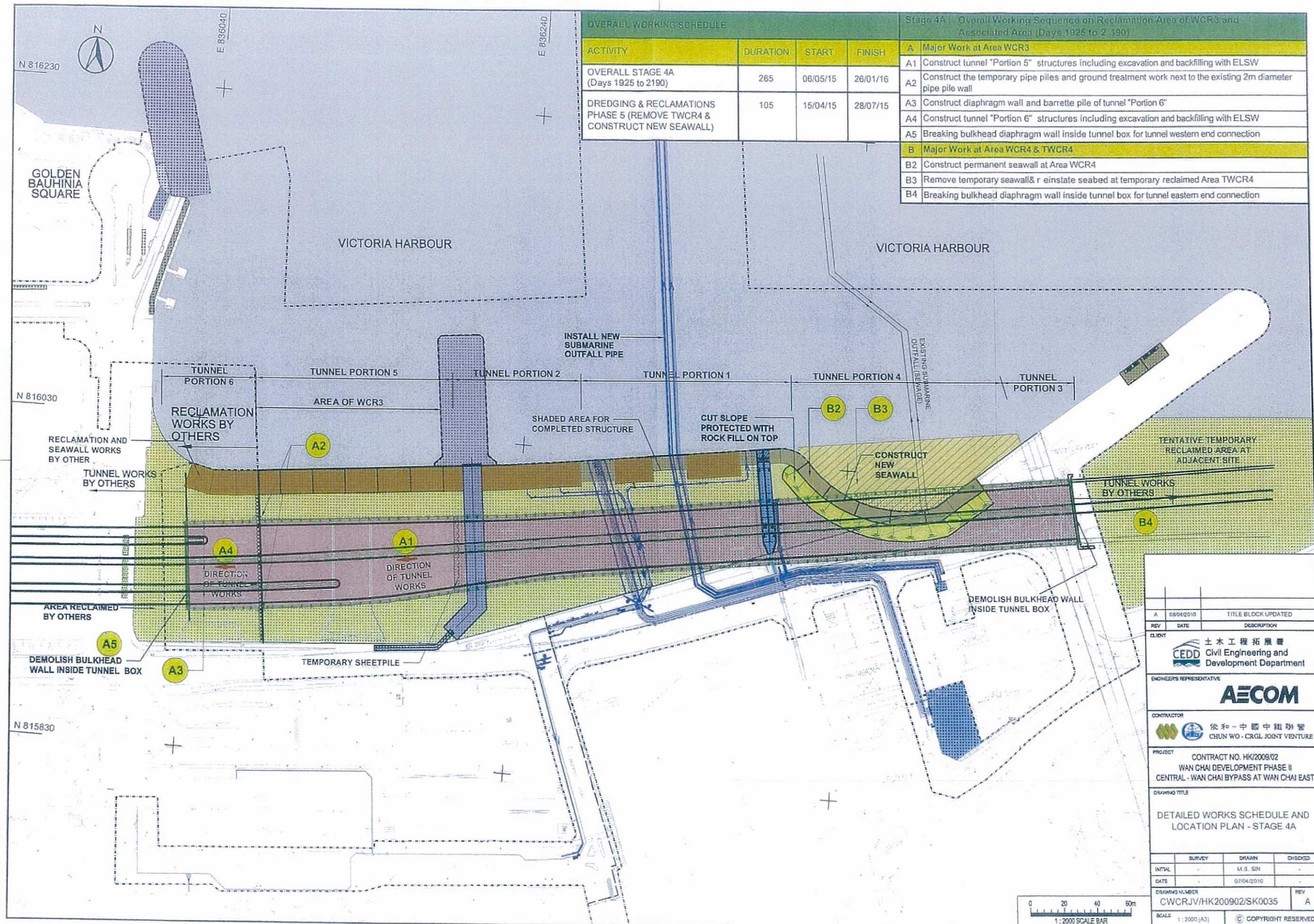




OVERALL WORKING SCHEDULE			
ACTIVITY	DURATION	START	FINISH
OVERALL STAGE 4 (Days 1300 to 1925)	625	19/08/13	06/05/15
DREDGING & RECLAMATIONS PHASE 4 (WCR3)	294	18/03/14	05/01/15

Stage 4: Overall Working Sequence on Reclamation Area of WCR3, WCR4, TWCR4 and Associated Area (Days 1300 to 1925)	
<b>A</b>	Major Work at Area WCR3
A1	Dredging and construct new seawall of Area WCR3
A2	Reclamation of Area WCR3 to +3.5mPD
A3	Construct diaphragm wall and barrette pile of tunnel "Portion 5"
A4	Construct tunnel "Portion 5" structures including excavation and backfilling with ELSW
<b>B</b>	Major Work at Area WCR4 & TWCR4
B1	Construct tunnel "Portion 4" structures including excavation and backfilling with ELSW
<b>C</b>	Major Work in Associated Area
C1	E&M, soft landscape and establishment works on new Wan Chai Ferry Pier
<b>D</b>	Other Miscellaneous Works
D1	Demolition of existing un-used Wan Chai Ferry Pier
D2	Removal of un-used top portion of diaphragm wall at tunnel "Portion 4" at Area WCR4
<b>E</b>	Other Temporary Works
E1	Reinstate the approach ramp of Hung Hing Road flyover upon tunnel "Portion 4" completion
E2	Removal of temporary steel bridge no. 1 & 2 and to reinstate the original road work on Hung Hing Road
E3	Removal of temporary seawall at Area TWCR4

REV	DATE	DESCRIPTION
A	09/04/2010	TITLE BLOCK UPDATED
CLIENT		
土木工程拓展署 Civil Engineering and Development Department		
ENGINEER'S REPRESENTATIVE		
<b>AECOM</b>		
CONTRACTOR		
俊和 - 中國中鐵聯營 CHUN WO - CRGL JOINT VENTURE		
PROJECT		
CONTRACT NO. HK/2009/02 WAN CHAI DEVELOPMENT PHASE II CENTRAL - WAN CHAI BYPASS AT WAN CHAI EAST		
DRAWING TITLE		
DETAILED WORKS SCHEDULE AND LOCATION PLAN - STAGE 4		
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07/04/2010		
DRAWING NUMBER		
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OVERALL WORKING SCHEDULE			
ACTIVITY	DURATION	START	FINISH
OVERALL STAGE 4A (Days 1925 to 2190)	265	06/05/15	26/01/16
DREDGING & RECLAMATIONS PHASE 5 (REMOVE TWCR4 & CONSTRUCT NEW SEAWALL)	105	15/04/15	28/07/15

Stage 4A: Overall Working Sequence on Reclamation Area of WCR3 and Associated Area (Days 1925 to 2190)	
<b>A</b>	<b>Major Work at Area WCR3</b>
A1	Construct tunnel "Portion 5" structures including excavation and backfilling with ELSW
A2	Construct the temporary pipe piles and ground treatment work next to the existing 2m diameter pipe pile wall
A3	Construct diaphragm wall and barrette pile of tunnel "Portion 6"
A4	Construct tunnel "Portion 6" structures including excavation and backfilling with ELSW
A5	Breaking bulkhead diaphragm wall inside tunnel box for tunnel western end connection
<b>B</b>	<b>Major Work at Area WCR4 &amp; TWCR4</b>
B2	Construct permanent seawall at Area WCR4
B3	Remove temporary seawall & reinstate seabed at temporary reclaimed Area TWCR4
B4	Breaking bulkhead diaphragm wall inside tunnel box for tunnel eastern end connection

REV	DATE	DESCRIPTION
A	08/04/2010	TITLE BLOCK UPDATED
CLIENT		
土木工程拓展署 Civil Engineering and Development Department		
ENGINEER'S REPRESENTATIVE		
AECOM		
CONTRACTOR		
俊和 - 中環中鐵聯營 CHUN WO - CRGL JOINT VENTURE		
PROJECT		
CONTRACT NO. HK/2009/02 WAN CHAI DEVELOPMENT PHASE II CENTRAL - WAN CHAI BYPASS AT WAN CHAI EAST		
DRAWING TITLE		
DETAILED WORKS SCHEDULE AND LOCATION PLAN - STAGE 4A		
SURVEY	DRAWN	DESIGN
INTAL	M.S. SIN	-
DATE	07/04/2010	-
DRAWING NUMBER	CWCR/JV/HK200902/SK0035	REV
SCALE	1:2000 (A3)	A
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Activity ID	Activity Name	OD	Start	Finish	% complete	2011	2012	2013	2014	2015	2016
<b>Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East</b>											
<b>Expanded and More Detailed Initial Works Programme</b>											
<b>Section IX B Works - Central - Wan Chai Bypass Tunnel Structure from chainage 3400 to eastern tunnel</b>											
<b>Tunnel Portion 1</b>											
S9B-T1-0005	Tunnel portion 1 Predrill & guide wall	10	18-Feb-11	13-Apr-11	40%						
S9B-T1-0007	Tunnel Portion 1 Bored Piling works	105	09-Feb-11	08-Aug-11	0%						
S9B-T1-0010	Tunnel portion 1 diaphragm wall works	105	25-Apr-11	27-Aug-11	0%						
S9B-T1-0015	Tunnel portion 1 Pump Test and demobilization of Silos equipments	35	20-Aug-11	30-Sep-11	0%						
S9B-T1-0020	Tunnel portion 1 ELSW excavation	130	03-Oct-11	07-Mar-12	0%						
S9B-T1-0030	Tunnel portion 1 structure construction	100	08-Mar-12	09-Jul-12	0%						
S9B-T1-0040	Tunnel portion 1 backfilling and ELSW removal	54	10-Jul-12	10-Sep-12	0%						
<b>Tunnel Portion 2</b>											
S9B-T1-0105	Tunnel portion 2 Predrill & guide wall	10	02-Aug-12	13-Aug-12	0%						
S9B-T2-0010	Tunnel portion 2 diaphragm wall and bored pile works	100	14-Aug-12	10-Dec-12	0%						
S9B-T2-0015	Tunnel portion 2 Pump Test	14	03-Dec-12	18-Dec-12	0%						
S9B-T2-0020	Tunnel portion 2 ELSW excavation	80	11-Dec-12	19-Mar-13	0%						
S9B-T2-0030	Tunnel portion 2 structure construction	100	20-Mar-13	22-Jul-13	0%						
S9B-T2-0040	Tunnel portion 2 backfilling and ELSW removal	80	23-Jul-13	25-Oct-13	0%						
<b>Tunnel Portion 3</b>											
S9B-T3-0005	HEC 132kv diversion at Wan Shing Street Completed	0	01-Apr-12*		0%						
S9B-T3-0008	Tunnel portion 3 Predrill & guide wall	20	02-Oct-12	25-Oct-12	0%						
S9B-T3-0010	Remaining diaphragm wall, bored piles and temporary pipe pile wall at tunnel portion 3	50	26-Oct-12	22-Dec-12	0%						
S9B-T3-0015	Tunnel portion 3 Pump Test	30	15-Dec-12	22-Jan-13	0%						
S9B-T3-0020	Tunnel portion 3 ELSW excavation	30	15-Jan-13	20-Feb-13	0%						
S9B-T3-0030	Tunnel portion 3 structure construction	60	21-Feb-13	06-May-13	0%						
S9B-T3-0040	Tunnel portion 3 backfilling and ELSW removal	30	07-May-13	11-Jun-13	0%						
<b>Tunnel Portion 4</b>											
S9B-T4-0005	Tunnel portion 4 Predrill & guide wall for section not at approach ramp	21	30-Aug-12	22-Sep-12	0%						
S9B-T4-0010	Diaphragm wall and bored pile for steel bridge no.1 above tunnel portion 4	40	24-Sep-12	10-Nov-12	0%						
S9B-T4-0020	Diaphragm wall & bored pile works at tunnel portion 4 (section not at approach ramp)	420	11-Sep-12	06-Feb-14	0%						
S9B-T4-0025	Tunnel portion 4 Predrill & guide wall (for section at approach ramp)	5	23-Dec-13	30-Dec-13	0%						
S9B-T4-0030	Diaphragm wall works for remaining area of tunnel portion 4 (for section at approach ramp)	30	31-Dec-13	06-Feb-14	0%						
S9B-T4-0035	Tunnel portion 4 Pump Test	14	28-Jan-14	14-Feb-14	0%						
S9B-T4-0040	Tunnel portion 4 ELSW excavation	60	07-Feb-14	19-Apr-14	0%						
S9B-T4-0050	Tunnel portion 4 structure construction	110	22-Apr-14	01-Sep-14	0%						
S9B-T4-0060	Tunnel portion 4 backfilling and ELSW removal	60	02-Sep-14	13-Nov-14	0%						
<b>Section X Works - Central - Wan Chai Bypass Tunnel Structure from western tunnel to chainage 3400</b>											
<b>Tunnel Portion 5</b>											
S10-T5-0005	Tunnel portion 5 Predrill & guide	21	23-Dec-14	19-Jan-15	0%						
S10-T5-0010	Tunnel portion 5 diaphragm wall & bored pile works	110	20-Jan-15	04-Jun-15	0%						
S10-T5-0015	Tunnel portion 5 pump test	14	13-Jun-15	30-Jun-15	0%						
S10-T5-0020	Tunnel portion 5 tunnel ELSW excavation	45	04-Jul-15	25-Aug-15	0%						
S10-T5-0030	Tunnel portion 5 tunnel structure construction	90	26-Aug-15	11-Dec-15	0%						
<b>Tunnel Portion 6</b>											
S10-T6-0040	Tunnel portion 6 Predrill & guide	12	24-Apr-15	08-May-15	0%						
S10-T6-0050	Tunnel portion 6 diaphragm wall & bored pile works at Area 10	45	09-May-15	03-Jul-15	0%						
S10-T6-0055	Tunnel portion 6 pump test	14	25-Jun-15	11-Jul-15	0%						
S10-T6-0060	Tunnel portion 6 tunnel ELSW excavation at Area 10	45	04-Jul-15	25-Aug-15	0%						
S10-T6-0070	Tunnel portion 6 tunnel structure construction at Area 10	58	26-Aug-15	04-Nov-15	0%						

