

Appendix 3.1

Calculation of Construction Dust Emission Source

Appendix 3.1 Calculation of Construction Dust Emission Source
Construction Phase of HSKNDA Scenario 1 (Year 2019 - Year 2030) & Scenario 2 (Year 2031 - Year 2036)

Emission rates for Short-term Average Prediction (Tier 1)

Location	Source	Emission Rates	(Unmitigated)	(Mitigated)	Parameters	Remarks	
Site Formation Site in HSKNDA	Construction Activities	Heavy Construction Area Source (g/m ² /s)	2.076E-04	1.723E-05	Emission Rate = (Emission Factor*10 ⁶ /10000)/(30*No. of Operation hour*60*60)*(Percentage Active/100)*(1-Dust Suppression%)		
					TSP emission factor (Mg/hectare/month of activity)	2.69	from AP-42, S13.2.3, 1/95 ed.
					Percentage area actively operating (%)	100	Full strength (Tier 1 Test)
					% of dust suppression	91.7	For watering once an hour. Refer to the Calculation of Dust Suppression Efficiency by Watering.
					no. of operation hour (hr)	12	Assume typical working hours of work site referenced in AP-42
		Emission height (m)	0.5				
		Wind Erosion Area Source (g/m ² /s)	9.818E-05	8.149E-06	RSP emission factor (Mg/hectare/month of activity)	1.27237	
					% fraction of TSP	0.473	from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
					FSP emission factor (Mg/hectare/month of activity)	0.19368	
						% fraction of TSP	0.072
Emission Rate = Emission Factor*10 ⁶ /(10000*365*24*60*60)*(Percentage Active/100)							
TSP emission factor (Mg/hectare/yr)	0.85	AP-42, 5th ed., Table 11.9.4					
Percentage area actively operating (%)	100	Full strength (Tier 1 Test)					
Emission height (m)	0.5						
	1.275E-06	1.275E-06	RSP emission factor (Mg/hectare/month of activity)	0.40205			
			% fraction of TSP	0.473	from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4		
	1.941E-07	1.941E-07	FSP emission factor (Mg/hectare/month of activity)	0.0612			
			% fraction of TSP	0.072	from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4		

Appendix 3.1 Calculation of Construction Dust Emission Source
Construction Phase of HSKNDA Scenario 1 (Year 2019 - Year 2030) & Scenario 2 (Year 2031 - Year 2036)

Emission rates for Short-term Average Prediction (Tier 2 & Tier 3)

Location	Source	Emission Rates	(Unmitigated)	(Mitigated)	Parameters	Remarks	
Site Formation Site in HSKNDA	Construction Activities	Heavy Construction Area Source (g/m ² /s)	2.076E-04	1.723E-05	Emission Rate = (Emission Factor*10 ⁶ /10000)/(30*No. of Operation hour*60*60)*(Percentage Active/100)*(1-Dust Suppression%)		
					TSP emission factor (Mg/hectare/month of activity)	2.69	from AP-42, S13.2.3, 1/95 ed.
					Percentage area actively operating (%)	100	Full strength (Tier 2 Test)
					% of dust suppression	91.7	For watering once an hour. Refer to the Calculation of Dust Suppression Efficiency by Watering.
					no. of operation hour (hr)	12	Assume typical working hours of work site referenced in AP-42
		Emission height (m)	0.5				
		Wind Erosion Area Source (g/m ² /s)	9.818E-05	8.149E-06	RSP emission factor (Mg/hectare/month of activity)	1.27237	
					% fraction of TSP	0.473	from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
					FSP emission factor (Mg/hectare/month of activity)	0.19368	
					% fraction of TSP	0.072	from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
Emission Rate = Emission Factor*10 ⁶ /(10000*365*24*60*60)*(Percentage Active/100)							
TSP emission factor (Mg/hectare/yr)	0.85	AP-42, 5th ed., Table 11.9.4					
Percentage area actively operating (%)	100	Full strength (Tier 2 Test)					
Emission height (m)	0.5						
Work Area at Park, Open Space, Community Farm and Amenity Area	Spoil Handling Activity	Spoil Handling Area Source (g/m ² /s)	4.900E-07	4.067E-08	Emission Factor (kg/Mg) = k * (0.0016) * (U / 2.2) ^{1.3} / (M / 2) ^{1.4}	from AP-42, S13.2.4-4, 11/06 ed.	
					Mean Wind Speed U (m/s)	2.765	WRF data extracted from PATH-2016
					Material moisture content M (%)	3.4	for exposed ground, from AP-42, Table 13.2.4-1, 11/06 ed.
					Spoil handling rate (Mg/hr)	23.27	from engineer, 12m ³ /hr for 1 ha per month
% of dust suppression	91.7	For watering once an hour. Refer to the Calculation of Dust Suppression Efficiency by Watering.					
Emission height (m)	0.5						
Wind Erosion Area Source (g/m ² /s)	2.318E-07	1.924E-08	Emission Rate (g/m ² -s)= Emission Factor * 1000g * Handling Rate / 10000m ² / 3600s * (1 - Dust Suppression%)				
			Particle size multiplier k	0.74	for TSP, from AP-42, S13.2.4-4, 11/06 ed.		
			TSP emission factor (kg/Mg)	0.00076			
			Particle size multiplier k	0.35	for RSP, from AP-42, S13.2.4-4, 11/06 ed.		
			RSP emission factor (kg/Mg)	0.00036			
			Particle size multiplier k	0.053	for FSP, from AP-42, S13.2.4-4, 11/06 ed.		
			FSP emission factor (kg/Mg)	0.00005			
			Emission Rate = Emission Factor*10 ⁶ /(10000*365*24*60*60)*(Percentage Active/100)				
TSP emission factor (Mg/hectare/yr)	0.85	AP-42, 5th ed., Table 11.9.4					
Percentage area actively operating (%)	100	Full strength (Tier 2 Test)					
Emission height (m)	0.5						
Work Area at Park, Open Space, Community Farm and Amenity Area	Spoil Handling Activity	Wind Erosion Area Source (g/m ² /s)	3.510E-08	2.913E-09	RSP emission factor (Mg/hectare/month of activity)	0.40205	
					% fraction of TSP	0.473	from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
					FSP emission factor (Mg/hectare/month of activity)	0.0612	
% fraction of TSP	0.072	from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4					

Appendix 3.1 Calculation of Construction Dust Emission Source
Construction Phase of HSKNDA Scenario 1 (Year 2019 - Year 2030) & Scenario 2 (Year 2031 - Year 2036)

Emission rates for Annual Average Prediction

Location	Source	Emission Rates	(Unmitigated)	(Mitigated)	Parameters	Remarks			
Site Formation Site in HSKNDA	Construction Activities	Heavy Construction Area Source (g/m ² /s)	2.076E-05	1.723E-06	Emission Rate = (Emission Factor*10 ⁶ /10000)/(30*No. of Operation hour*60*60)*(Percentage Active/100)*(1-Dust Suppression%)				
					TSP emission factor (Mg/hectare/month of activity)	2.69	from AP-42, S13.2.3, 1/95 ed.		
					Percentage area actively operating (%)	10	Conservative estimate		
					% of dust suppression	91.7	For watering once an hour. Refer to the Calculation of Dust Suppression Efficiency by Watering.		
					no. of operation hour (hr)	12	Assume typical working hours of work site referenced in AP-42		
					Emission height (m)	0.5			
	Wind Erosion Area Source (g/m ² /s)	9.818E-06	8.149E-07	RSP emission factor (Mg/hectare/month of activity)	1.27237				
				% fraction of TSP	0.473	from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4			
				1.494E-06	1.240E-07	FSP emission factor (Mg/hectare/month of activity)	0.19368		
						% fraction of TSP	0.072	from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4	
						2.695E-07	Emission Rate = Emission Factor*10 ⁶ /((10000*365*24*60*60)*(Percentage Active/100)		
							TSP emission factor (Mg/hectare/yr)	0.85	AP-42, 5th ed., Table 11.9.4
Percentage area actively operating (%)	10	Conservative estimate							
1.275E-07	0.40205	RSP emission factor (Mg/hectare/month of activity)							
		% fraction of TSP	0.473	from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4					
		1.941E-08	0.0612	FSP emission factor (Mg/hectare/month of activity)					
% fraction of TSP	0.072			from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4					

Appendix 3.1 Calculation of Construction Dust Emission Source

Calculation of Dust Suppression Efficiency by Watering

Dust suppression efficiency of 91.7% is assumed in the assessment. The estimation and relevant assumptions are discussed as below.

With reference to the Equation of (5-4) of USEPA's Control of Open Fugitive Dust Sources (EPA-450/3-98-008), dust suppression efficiency can be estimated by:

$$C = 100 - \frac{0.8 \cdot p \cdot d \cdot t}{i}$$

where

C = average control efficiency, in percent

p = potential average hourly daytime evaporation rate in mm/ hour

d = average hourly daytime traffic rate in vehicles per hour

i = application intensity in L/m²

t = time between applications in hour

The following assumptions are made for assessment purpose:

- Potential average hourly daytime evaporation rate p can be estimated by $0.0049 \cdot e$, where e is the mean annual average evaporation rate (inches). From past measurement data by Hong Kong's Observatory, evaporation recorded at King's Park between 1981 – 2010 is 1227.3 mm¹. Therefore $p = 0.0049 \cdot 1227.3 \text{ mm} = 0.0049 \cdot (48.32 \text{ inches}) = 0.2368$
- Assume average hourly daytime traffic rate in vehicles per hour $d = 60$. (Conservative assumption)
- Assume watering application intensity $i = 1.37 \text{ L/m}^2$.
- Assume watering frequency as once per hour, $t = 1$.

With the above assumptions, dust suppression efficiency by watering is estimated as below:

$$C = 100 - 0.8 \cdot 0.2368 \cdot 60 \cdot 1 / 1.37 = \mathbf{91.7\%}$$

¹ The Hong Kong's Observatory evaporation recorded at King's Park between 1981 to 2010 is taken from http://www.weather.gov.hk/cis/normal/1981_2010/normals_e.htm.

Appendix 3.1 Calculation of Dust Emission Source
 Construction Phase of HSKNDA (Year 2019 - 2030)
 Short-term and Annual Assessments (Unmitigated Scenario)

Source	Type	X1	Y1	X2	Y2	Height (m)	Width / Angle	Working Hour	TSP Emission Rate (g/m ² -s)				RSP Emission Rate (g/m ² -s)				FSP Emission Rate (g/m ² -s)			
									Short-term Assessment		Annual Assessment		Short-term Assessment		Annual Assessment		Short-term Assessment		Annual Assessment	
									Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours
26S22_13	AREA	816235.5	834481.1	51.80	35.10	0.5	148.23	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
26S22_14	AREA	816374.0	834746.9	76.97	42.23	0.5	174.99	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
26S22_15	AREA	816265.3	834532.1	22.11	75.44	0.5	153.38	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
26S22_16	AREA	816377.7	834704.9	111.69	264.72	0.5	174.99	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
26S22_17	AREA	816552.9	834387.0	14.75	75.58	0.5	100.39	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
26S22_18	AREA	816401.6	834385.3	83.13	108.85	0.5	100.39	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
26S22_19	AREA	816288.8	834428.9	27.25	31.92	0.5	177.44	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
26S22_20	AREA	816400.8	834441.2	115.43	57.93	0.5	172.30	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
26S22_21	AREA	816260.9	834440.3	136.55	45.49	0.5	176.60	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
26S22_22	AREA	816449.1	835281.2	13.29	73.17	0.5	125.98	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
26S22_23	AREA	816516.5	835242.7	28.39	65.86	0.5	151.24	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
26S22_24	AREA	816378.0	835355.1	37.09	240.34	0.5	117.05	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
26S22_25	AREA	816539.2	835030.2	124.25	115.24	0.5	140.97	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
26S22_26	AREA	816362.4	834188.1	136.71	197.76	0.5	110.27	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		

Appendix 3.1 Calculation of Construction Dust Emission Source

Construction Phase of HSKNDA Scenario 1 (Year 2026 - Year 2030)

Short-term and Annual Assessments (Mitigated Scenario)

Source	Type	X1	Y1	X2	Y2	Height (m)	Width / Angle	Working Hour	TSP Emission Rate (g/m ² -s)		RSP Emission Rate (g/m ² -s)				FSP Emission Rate (g/m ² -s)			
									Short-term Assessment (Tier 1)		Short-term Assessment (Tier 1)		Annual Assessment		Short-term Assessment (Tier 1)		Annual Assessment	
									Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours
26S22_21	Area	816288.82	834428.86	27.25	31.92	0.5	177.44	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-07	1.941E-08
26S22_22	Area	816400.75	834441.15	115.43	57.93	0.5	172.30	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-07	1.941E-08
26S22_23	Area	816260.85	834440.26	136.55	45.49	0.5	176.60	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-07	1.941E-08
26S22_24	Area	816449.12	835281.19	13.29	73.17	0.5	125.98	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-07	1.941E-08
26S22_25	Area	816516.52	835242.70	28.39	65.86	0.5	151.24	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-07	1.941E-08
26S22_26	Area	816377.98	835355.07	37.09	240.34	0.5	117.05	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-07	1.941E-08
26S22_27	Area	816539.16	835030.23	124.25	115.24	0.5	140.97	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-07	1.941E-08
26S22_28	Area	816386.76	834380.80	93.47	158.08	0.5	172.30	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-07	1.941E-08
26S22_29	Area	816388.69	834198.11	18.48	144.20	0.5	110.27	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-07	1.941E-08
26S22_30	Area	816362.43	834188.11	136.71	197.76	0.5	110.27	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-07	1.941E-08

Appendix 3.1 Calculation of Construction Dust Emission Source
 Construction Phase of HSKNDA (Year 2031 - Year 2036)
 Short-term and Annual Assessments (Unmitigated Scenario)

Source	Type	X1	Y1	X2	Y2	Height (m)	Width / Angle	Working Hour	TSP Emission Rate (g/m ² -s)				RSP Emission Rate (g/m ² -s)				FSP Emission Rate (g/m ² -s)			
									Short-term Assessment		Short-term Assessment		Annual Assessment		Short-term Assessment		Annual Assessment			
									Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours		
315A_01	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_02	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_03	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_04	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_05	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_06	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_07	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_08	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_09	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_10	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_11	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_12	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_13	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_14	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_15	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_16	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_17	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_18	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_19	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_20	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_21	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_22	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_23	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_24	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_25	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		
315A_26	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08		

Appendix 3.1 Calculation of Construction Dust Emission Source

Construction Phase of HSKNDA (Year 2031 - Year 2036)

Short-term and Annual Assessments (Unmitigated Scenario)

Source	Type	X1	Y1	X2	Y2	Height (m)	Width / Angle	Working Hour	TSP Emission Rate (g/m ² -s)		RSP Emission Rate (g/m ² -s)				FSP Emission Rate (g/m ² -s)			
									Short-term Assessment		Short-term Assessment		Annual Assessment		Short-term Assessment		Annual Assessment	
									Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours
31S4_27	AREA	817301.16	835446.04	181.12	188.00	0.5	150.9	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08
31S4_28	AREA	817365.89	835791.28	157.77	55.32	0.5	95.31	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08
31S4_29	AREA	817341.36	835773.83	101.54	743.47	0.5	165.29	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08
31S4_30	AREA	817827.48	834707.05	165.24	179.66	0.5	149.29	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08
31S4_31	AREA	817828.14	834541.18	125.52	76.57	0.5	108.62	07:00 - 19:00	2.076E-04	2.695E-06	9.818E-05	1.275E-06	9.818E-06	1.275E-07	1.494E-05	1.941E-07	1.494E-06	1.941E-08

Appendix 3.1 Calculation of Construction Dust Emission Source
 Construction Phase of HSKNDA Scenario 2 (Year 2031 - Year 2036)
 Short-term and Annual Assessments (Mitigated Scenario)

Source	Type	X1	Y1	X2	Y2	Height (m)	Width / Angle	Working Hour	TSP Emission Rate (g/m ² -s)		RSP Emission Rate (g/m ² -s)		FSP Emission Rate (g/m ² -s)					
									Short-term Assessment (Tier 1)		Short-term Assessment (Tier 1)		Annual Assessment		Short-term Assessment (Tier 1)		Annual Assessment	
									Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours
315A_01	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_02	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_03	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_04	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_05	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_06	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_07	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_08	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_09	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_10	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_11	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_12	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_13	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_14	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_15	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_16	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_17	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_18	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_19	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_20	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_21	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_22	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_23	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_24	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_25	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07
315A_26	AREA	817812.25	833754.56	126.30	56.59	0.5	153.1	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-06	1.941E-07

Appendix 3.1 Calculation of Construction Dust Emission Source

Construction Phase of HSKNDA Scenario 2 (Year 2031 - Year 2036)

Short-term and Annual Assessments (Mitigated Scenario)

Source	Type	X1	Y1	X2	Y2	Height (m)	Width / Angle	Working Hour	TSP Emission Rate (g/m ² -s)		RSP Emission Rate (g/m ² -s)				FSP Emission Rate (g/m ² -s)			
									Short-term Assessment (Tier 1)		Short-term Assessment (Tier 1)		Annual Assessment		Short-term Assessment (Tier 1)		Annual Assessment	
									Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours
31S4_27	AREA	817301.16	835446.04	181.12	188.00	0.5	150.9	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-07	1.941E-08
31S4_28	AREA	817365.89	835791.28	157.77	55.32	0.5	95.31	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-07	1.941E-08
31S4_29	AREA	817341.36	835773.83	101.54	743.47	0.5	165.29	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-07	1.941E-08
31S4_30	AREA	817827.48	834707.05	165.24	179.66	0.5	149.29	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-07	1.941E-08
31S4_31	AREA	817828.14	834541.18	125.52	76.57	0.5	108.62	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	8.149E-07	1.275E-07	1.240E-06	1.941E-07	1.240E-07	1.941E-08

Appendix 3.1 Calculation of Dust Emission Source
Construction Phase of HSKNDA (Year 2019 - Year 2030)
Short-term Assessment (Mitigated Scenario) (Tier 2)

Source	Type	X1	Y1	X2	Y2	Height (m)	Width / Angle	Working Hour	TSP Emission Rate (g/m ² -s)		RSP Emission Rate (g/m ² -s)		FSP Emission Rate (g/m ² -s)	
									Short-term Assessment (Tier 2)		Short-term Assessment (Tier 2)		Short-term Assessment (Tier 2)	
									Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours
26D_01	AREA	816890.91	832447.87	112.38	112.37	0.5	115.08	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26D_02	AREA	816541.76	832581.87	112.38	112.37	0.5	110.89	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_01	AREA	816670.59	834880.02	87.45	45.04	3.0	180	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_02	AREA	816652.56	834834.98	46.74	54.19	3.0	180	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_03	AREA	816701.34	834780.79	97.56	30.35	3.0	180	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_04	AREA	816238.45	834669.14	100.00	96.27	3.0	140.97	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_05	AREA	816462.64	834087.91	65.83	100.10	3.0	159.95	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_06	AREA	816496.96	833993.88	45.50	46.14	3.0	159.95	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_07	AREA	816956.93	832130.11	112.38	112.37	3.0	131.34	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_08	AREA	817710.64	832974.72	86.41	64.15	3.0	158.44	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_09	AREA	817755.35	832992.39	27.80	32.67	3.0	158.44	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_10	AREA	816077.47	834412.77	100.00	96.27	3.0	165.6	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_11	AREA	816243.28	834985.36	100.00	96.27	3.0	140.97	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_12	AREA	816712.33	833598.32	78.52	100.00	3.0	175.2	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_13	AREA	816595.89	833234.83	33.94	120.69	3.0	106	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_14	AREA	816607.76	833196.13	86.76	98.61	3.0	106	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_15	AREA	817259.19	832437.55	120.69	120.70	3.0	170.21	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_16	AREA	817771.78	833939.04	94.05	94.00	3.0	107.02	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_17	AREA	816489.97	832980.94	79.10	31.19	3.0	108.26	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_18	AREA	817498.48	832901.91	134.74	63.52	3.0	167.31	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_19	AREA	816502.16	833488.80	196.82	44.92	3.0	94.77	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_20	AREA	817092.42	832258.60	94.05	94.00	3.0	131.08	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_21	AREA	816998.99	833179.56	56.95	164.08	3.0	106	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_22	AREA	816938.29	832886.69	120.70	120.69	3.0	112.79	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_23	AREA	816422.76	831986.50	112.38	112.37	3.0	156.89	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_24	AREA	816794.60	831945.56	112.38	112.37	3.0	131.34	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_25	AREA	818184.94	833932.54	63.12	140.06	3.0	164.8	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_26	AREA	816582.53	835287.22	96.27	100.00	3.0	114.16	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_27	AREA	816535.29	835309.67	68.16	54.63	3.0	115.36	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_28	AREA	816378.02	835355.05	37.14	162.70	3.0	117.03	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_29	AREA	816005.07	834262.79	31.19	79.10	3.0	125.14	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_30	AREA	816486.56	831520.22	31.19	79.10	3.0	153.34	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_31	AREA	816539.37	833232.79	79.10	31.19	3.0	94.4	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_32	AREA	816694.89	831815.25	94.05	94.00	3.0	125.91	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_33	AREA	818045.20	834074.66	96.27	100.00	3.0	90.49	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_34	AREA	816196.79	834155.63	31.19	79.10	3.0	134.7	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_35	AREA	816331.51	831829.11	31.19	79.10	3.0	153.34	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26DH_36	AREA	817105.72	833216.89	65.28	80.00	3.0	106.02	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
26SH_01	AREA	816454.22	833978.28	20.33	46.14	3.0	159.95	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
26SH_02	AREA	817767.60	832962.10	48.33	30.85	3.0	158.44	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
26SH_03	AREA	817729.50	832982.18	20.28	32.67	3.0	158.44	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
26SH_04	AREA	816633.33	833600.71	17.75	100.00	3.0	175.2	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
26SH_05	AREA	816586.53	833202.21	86.76	22.08	3.0	106	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07

Appendix 3.1 Calculation of Dust Emission Source
 Construction Phase of HSKNDA (Year 2031 - Year 2036)
 Short-term Assessment (Mitigated Scenario) (Tier 2 Central)

Source	Type	X1	Y1	X2	Y2	Height (m)	Width / Angle	Working Hour	TSP Emission Rate (g/m ² -s)		RSP Emission Rate (g/m ² -s)		FSP Emission Rate (g/m ² -s)	
									Short-term Assessment (Tier 2 Central)		Short-term Assessment (Tier 2 Central)		Short-term Assessment (Tier 2 Central)	
									Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours
31DH_01	AREA	817095.20	833925.98	20.00	110.00	3.0	120.36	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31DH_02	AREA	817012.65	834012.89	102.02	92.02	3.0	109.18	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31DH_03	AREA	817681.03	834127.10	45.14	25.67	3.0	159.42	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31DH_04	AREA	817662.93	834174.35	75.94	50.60	3.0	159.42	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31DH_05	AREA	817496.24	834518.53	76.27	76.27	3.0	113.44	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31DH_06	AREA	817515.83	835030.94	56.44	58.81	3.0	148.91	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31DH_07	AREA	817467.49	835001.79	36.12	92.76	3.0	148.91	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31DH_08	AREA	816926.01	834414.30	93.43	83.43	3.0	178.05	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31DH_09	AREA	816570.61	834607.16	93.43	68.43	3.0	93.4	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31DH_10	AREA	817052.21	834402.43	72.29	82.29	3.0	179.99	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31DH_11	AREA	817052.22	834319.50	30.00	40.00	3.0	179.31	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31DH_12	AREA	818037.12	833757.42	75.38	55.38	3.0	103.35	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31DH_13	AREA	817440.75	834302.34	51.27	56.27	3.0	136.57	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31DH_14	AREA	816794.85	834776.66	57.12	57.12	3.0	94.55	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31DH_15	AREA	817607.73	834709.43	76.27	76.27	3.0	175.52	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31DH_16	AREA	817942.42	834425.75	92.76	92.76	3.0	167.16	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31DH_17	AREA	817605.62	834826.10	92.76	92.76	3.0	166.74	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31DH_18	AREA	816818.53	835648.92	87.50	87.50	3.0	103.53	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31SH_01	AREA	817099.81	833982.58	102.02	10.00	3.0	109.18	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
31SH_02	AREA	817191.40	833872.77	98.11	98.11	3.0	99.47	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
31SH_03	AREA	817638.78	834111.23	31.13	26.00	3.0	159.42	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
31SH_04	AREA	817546.20	834980.57	56.44	33.95	3.0	148.91	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
31SH_05	AREA	817506.77	834074.53	98.11	98.11	3.0	134.03	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
31SH_06	AREA	816925.66	834424.68	93.43	10.00	3.0	178.05	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
31SH_07	AREA	816639.27	834603.08	93.43	25.00	3.0	93.4	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
31SH_08	AREA	817062.42	834402.48	10.00	82.29	3.0	179.99	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
31SH_09	AREA	817062.44	834319.63	10.00	40.00	3.0	179.31	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
31SH_10	AREA	818017.41	833762.16	75.38	20.00	3.0	103.35	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
31SH_11	AREA	817426.75	834317.05	51.27	20.00	3.0	136.43	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
31SH_12	AREA	817389.50	834281.70	25.00	76.27	3.0	136.57	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
31SH_13	AREA	817087.28	834958.21	57.12	57.12	3.0	146.94	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
31D_01	AREA	816833.19	834171.27	93.43	93.43	0.5	109.32	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31D_02	AREA	816763.99	834995.81	100.16	100.16	0.5	173.69	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
31D_03	AREA	817152.13	835272.46	100.16	100.16	0.5	143.46	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07

Appendix 3.1 Calculation of Dust Emission Source
 Construction Phase of HSKNDA (Year 2031 - Year 2036)
 Short-term Assessment (Mitigated Scenario) (Tier 2 South)

Source	Type	X1	Y1	X2	Y2	Height (m)	Width / Angle	Working Hour	TSP Emission Rate (g/m ² -s)		RSP Emission Rate (g/m ² -s)		FSP Emission Rate (g/m ² -s)	
									Short-term Assessment (Tier 2 South)		Short-term Assessment (Tier 2 South)		Short-term Assessment (Tier 2 South)	
									Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours
IN_1	AREA	816537.38	833901.08	60.00	30.00	3.0	103.93	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_2	AREA	816539.94	833985.77	83.24	83.24	3.0	103.28	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_3	AREA	817511.12	834160.60	36.27	76.27	3.0	119.36	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_4	AREA	817530.92	834195.56	40.00	76.27	3.0	119.36	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
IN_5	AREA	816721.20	833285.79	81.29	81.29	3.0	107.49	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_6	AREA	816619.43	833296.65	60.00	100.00	3.0	108.18	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
IN_7	AREA	818243.43	833609.65	75.38	65.38	3.0	133.27	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_8	AREA	818291.15	833564.64	75.38	10.00	3.0	133.27	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
IN_9	AREA	818068.10	833319.20	65.38	75.38	3.0	172.41	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_10	AREA	818003.07	833310.59	10.00	75.38	3.0	172.41	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
IN_11	AREA	817571.39	833240.43	98.11	98.11	3.0	179.01	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_12	AREA	816667.98	834987.93	10.00	100.16	0.5	175.9	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
IN_13	AREA	816758.58	834994.35	90.16	100.16	0.5	175.9	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_14	AREA	817601.45	834823.57	92.76	92.76	3.0	163.27	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
IN_15	AREA	816794.42	834772.02	57.12	57.12	3.0	92.29	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_16	AREA	816949.61	833263.06	112.29	112.29	0.5	106.29	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_17	AREA	816818.53	835648.92	87.50	87.50	3.0	103.53	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_18	AREA	817293.29	833313.39	98.11	98.11	3.0	176.11	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07

Short-term Assessment (Mitigated Scenario) (Tier 2 West)

Source	Type	X1	Y1	X2	Y2	Height (m)	Width / Angle	Working Hour	TSP Emission Rate (g/m ² -s)		RSP Emission Rate (g/m ² -s)		FSP Emission Rate (g/m ² -s)	
									Short-term Assessment (Tier 2 West)		Short-term Assessment (Tier 2 West)		Short-term Assessment (Tier 2 West)	
									Working hours	Non-working hours	Working hours	Non-working hours	Working hours	Non-working hours
IN_1	AREA	816539.94	833985.77	83.24	83.24	3.0	103.28	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_2	AREA	816537.38	833901.08	60.00	30.00	3.0	103.93	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_3	AREA	816483.92	834792.95	93.43	93.43	0.5	172.57	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_4	AREA	816515.75	834518.16	93.43	93.43	0.5	172.83	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_5	AREA	818037.12	833757.42	75.38	55.38	3.0	103.35	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_6	AREA	818017.41	833762.16	75.38	20.00	3.0	103.35	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
IN_7	AREA	817426.75	834317.05	51.27	20.00	3.0	136.43	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
IN_8	AREA	817440.75	834302.34	51.27	56.27	3.0	136.57	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_9	AREA	817389.50	834281.70	25.00	76.27	3.0	136.57	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
IN_10	AREA	817604.94	834821.19	92.76	92.76	3.0	162.55	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
IN_11	AREA	816767.36	834990.13	100.16	100.16	0.5	175.76	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_12	AREA	816818.53	835648.92	87.50	87.50	3.0	103.53	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_13	AREA	816804.00	834075.68	112.29	112.29	0.5	106.29	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06	1.240E-06	1.941E-07
IN_14	AREA	816704.51	834788.35	57.12	57.12	3.0	93.9	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07
IN_15	AREA	817194.42	833852.62	98.11	98.11	3.0	103.96	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06	2.913E-09	1.941E-07

Appendix 3.1 Calculation of Dust Emission Source

Construction Phase of HSKNDA (Year 2019 - Year 2030)

Short-term Assessment (Mitigated Scenario) (Tier 3-for ASR P1501)

Source	Type	X1	Y1	X2	Y2	Height (m)	Width / Angle	Working Hour	RSP Emission Rate (g/m ² -s)	
									Short-term Assessment (Tier 3)	
									Working hours	Non-working hours
2047_1	AREA	816541.76	832581.87	112.38	112.37	0.5	110.89	07:00 - 19:00	8.149E-06	1.275E-06
2047_2	AREA	816607.76	833196.13	86.76	98.61	3.0	106	07:00 - 19:00	8.149E-06	1.275E-06
2047_3	AREA	816595.89	833234.83	33.94	120.69	3.0	106	07:00 - 19:00	8.149E-06	1.275E-06
2047_4	AREA	816502.16	833488.80	196.82	44.92	3.0	94.77	07:00 - 19:00	8.149E-06	1.275E-06
2047_5	AREA	816012.58	834396.11	33.00	96.27	3.0	165.6	07:00 - 19:00	8.149E-06	1.275E-06
2047_6	AREA	816005.07	834262.79	31.19	79.10	3.0	125.14	07:00 - 19:00	8.149E-06	1.275E-06
2047_7	AREA	816586.53	833202.21	86.76	22.08	3.0	106	07:00 - 19:00	1.924E-08	1.275E-06

Short-term Assessment (Mitigated Scenario) (Tier 3-for ASR A208, P240)

Source	Type	X1	Y1	X2	Y2	Height (m)	Width / Angle	Working Hour	TSP Emission Rate (g/m ² -s)		RSP Emission Rate (g/m ² -s)	
									Short-term Assessment (Tier 3)		Short-term Assessment (Tier 3)	
									Working hours	Non-working hours	Working hours	Non-working hours
2145_1	AREA	816431.54	834055.80	96.27	100.00	3.0	99.97	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06
2145_2	AREA	816716.62	832351.06	120.70	120.69	0.5	113.81	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06
2145_3	AREA	816622.96	831867.34	93.91	31.02	0.5	125.91	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06
2145_4	AREA	816452.30	831917.25	112.15	37.08	3.0	156.89	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06
2145_5	AREA	816331.51	831829.11	31.19	79.10	3.0	153.34	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06

Short-term Assessment (Mitigated Scenario) (Tier 3-for ASR P1032)

Source	Type	X1	Y1	X2	Y2	Height (m)	Width / Angle	Working Hour	RSP Emission Rate (g/m ² -s)	
									Short-term Assessment (Tier 3)	
									Working hours	Non-working hours
1032_1	AREA	816191.70	834943.54	33.00	96.27	3.0	140.97	07:00 - 19:00	8.149E-06	1.275E-06
1032_2	AREA	816607.76	833196.13	86.76	98.61	3.0	106	07:00 - 19:00	8.149E-06	1.275E-06
1032_3	AREA	816595.89	833234.83	33.94	120.69	3.0	106	07:00 - 19:00	8.149E-06	1.275E-06
1032_4	AREA	816541.76	832581.87	112.38	112.37	0.5	110.89	07:00 - 19:00	8.149E-06	1.275E-06
1032_5	AREA	816502.16	833488.80	196.82	44.92	3.0	94.77	07:00 - 19:00	8.149E-06	1.275E-06
1032_6	AREA	816005.07	834262.79	31.19	79.10	3.0	125.14	07:00 - 19:00	8.149E-06	1.275E-06
1032_7	AREA	816586.53	833202.21	86.76	22.08	3.0	106	07:00 - 19:00	1.924E-08	1.275E-06

Short-term Assessment (Mitigated Scenario) (Tier 3- For ASR A310)

Source	Type	X1	Y1	X2	Y2	Height (m)	Width / Angle	Working Hour	TSP Emission Rate (g/m ² -s)		RSP Emission Rate (g/m ² -s)	
									Short-term Assessment (Tier 3)		Short-term Assessment (Tier 3)	
									Working hours	Non-working hours	Working hours	Non-working hours
2245_1	AREA	816431.54	834055.80	96.27	100.00	3.0	99.97	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06
2245_2	AREA	817259.19	832437.55	39.83	120.70	3.0	170.21	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06
2245_3	AREA	817135.22	832322.10	94.05	94.00	3.0	123.26	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06
2245_4	AREA	816890.91	832447.87	112.38	112.37	0.5	115.08	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06
2245_5	AREA	816489.97	832980.94	79.10	31.19	0.5	108.26	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06

Short-term Assessment (Mitigated Scenario) (Tier 3- For ASR A209)

Source	Type	X1	Y1	X2	Y2	Height (m)	Width / Angle	Working Hour	TSP Emission Rate (g/m ² -s)		RSP Emission Rate (g/m ² -s)	
									Short-term Assessment (Tier 3)		Short-term Assessment (Tier 3)	
									Working hours	Non-working hours	Working hours	Non-working hours
26DH_05	AREA	816462.64	834087.91	65.83	100.10	3.0	159.95	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06
26DH_06	AREA	816496.96	833993.88	45.50	46.14	3.0	159.95	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06
T3DH_01	AREA	816956.93	832130.11	112.37	37.08	3.0	131.34	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06
26DH_15	AREA	817259.19	832437.55	120.69	120.70	3.0	170.21	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06
26DH_20	AREA	817092.42	832258.60	94.05	94.00	3.0	131.08	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06
26DH_35	AREA	816331.51	831829.11	31.19	79.10	3.0	153.34	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06
26SH_01	AREA	816454.22	833978.28	20.33	46.14	3.0	159.95	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06

Appendix 3.1 Calculation of Dust Emission Source

Construction Phase of HSKNDA (Year 2031 - Year 2036)

Short-term Assessment (Mitigated Scenario) (Tier 3-for ASR P606)

Source	Type	X1	Y1	X2	Y2	Height (m)	Width / Angle	Working Hour	TSP Emission Rate (g/m ² -s)		RSP Emission Rate (g/m ² -s)					
									Short-term Assessment (Tier 3)				Short-term Assessment (Tier 3)			
									Working hours		Non-working hours		Working hours		Non-working hours	
IN_1	AREA	816758.58	834994.35	90.16	100.16	0.5	175.9	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06				
IN_2	AREA	817194.42	833852.62	98.11	98.11	3.0	103.96	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06				
IN_3	AREA	816704.51	834788.35	57.12	57.12	3.0	93.9	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06				
IN_4	AREA	816469.40	834512.33	46.71	93.43	0.5	172.83	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06				
IN_5	AREA	818037.12	833757.42	75.38	55.38	3.0	103.35	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06				
IN_6	AREA	818017.41	833762.16	75.38	20.00	3.0	103.35	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06				
IN_7	AREA	817426.75	834317.05	51.27	20.00	3.0	136.43	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06				
IN_8	AREA	817440.75	834302.34	51.27	56.27	3.0	136.57	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06				
IN_9	AREA	817389.50	834281.70	25.00	76.27	3.0	136.57	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06				
IN_10	AREA	817604.94	834821.19	92.76	92.76	3.0	162.55	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06				
IN_11	AREA	816667.98	834987.93	10.00	100.16	0.5	175.9	07:00 - 19:00	4.067E-08	2.695E-06	1.924E-08	1.275E-06				
IN_12	AREA	816818.53	835648.92	87.50	87.50	3.0	103.53	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06				
IN_13	AREA	816804.00	834075.68	112.29	112.29	0.5	106.29	07:00 - 19:00	1.723E-05	2.695E-06	8.149E-06	1.275E-06				

Short-term Assessment (Mitigated Scenario) (Tier 3-for ASR A702)

Source	Type	X1	Y1	X2	Y2	Height (m)	Width / Angle	Working Hour	RSP Emission Rate (g/m ² -s)	
									Short-term Assessment (Tier 3)	
									Working hours	Non-working hours
31DH_01	AREA	817095.20	833925.98	20.00	110.00	3.0	120.36	07:00 - 19:00	8.149E-06	1.275E-06
T3DH_01	AREA	817090.47	833985.82	102.02	9.63	3.0	109.18	07:00 - 19:00	8.149E-06	1.275E-06
31DH_12	AREA	818037.12	833757.42	75.38	55.38	3.0	103.35	07:00 - 19:00	8.149E-06	1.275E-06
31DH_13	AREA	817440.75	834302.34	51.27	56.27	3.0	136.57	07:00 - 19:00	8.149E-06	1.275E-06
31DH_14	AREA	816794.85	834776.66	57.12	57.12	3.0	94.55	07:00 - 19:00	8.149E-06	1.275E-06
31DH_16	AREA	817942.42	834425.75	92.76	92.76	3.0	167.16	07:00 - 19:00	8.149E-06	1.275E-06
31DH_18	AREA	816818.53	835648.92	87.50	87.50	3.0	103.53	07:00 - 19:00	8.149E-06	1.275E-06
31SH_01	AREA	817099.81	833982.58	102.02	10.00	3.0	109.18	07:00 - 19:00	1.924E-08	1.275E-06
31SH_02	AREA	817191.40	833872.77	98.11	98.11	3.0	99.47	07:00 - 19:00	1.924E-08	1.275E-06
31SH_10	AREA	818017.41	833762.16	75.38	20.00	3.0	103.35	07:00 - 19:00	1.924E-08	1.275E-06
31SH_11	AREA	817426.75	834317.05	51.27	20.00	3.0	136.43	07:00 - 19:00	1.924E-08	1.275E-06
31SH_12	AREA	817389.50	834281.70	25.00	76.27	3.0	136.57	07:00 - 19:00	1.924E-08	1.275E-06
31D_02	AREA	816763.99	834995.81	100.16	100.16	0.5	173.69	07:00 - 19:00	8.149E-06	1.275E-06

Particle Size Distribution of Heavy Construction and Spoil Handling Activities

Particle Size, μm	Average Particle Size (μm)	Percentage %
2.5	1.25	7.0
5	3.75	20.0
10	7.50	20.0
15	12.50	18.0
30	22.50	35.0

Reference: Section 13.2.4-4, AP42

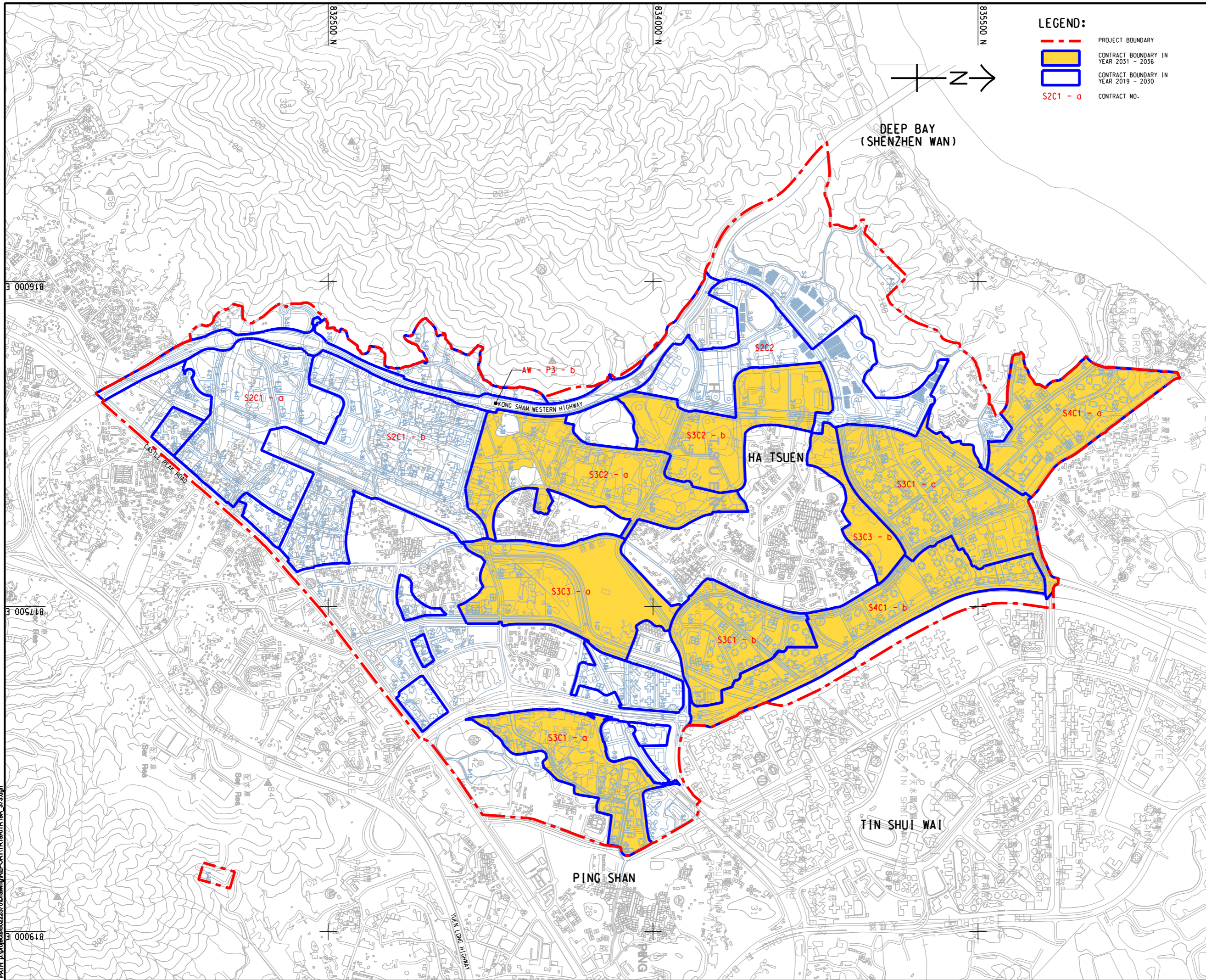
Particle Size, μm	Cumulative % \leq Stated Size (Uncontrolled)
2.5	5.3
5	20
10	35
15	48
30	74

Remark:

Particulate size distribution of various processes are extracted and presented as above, thus Method 1 of particle dry deposition is applied in AERMOD.

Appendix 3.1 Active Works Area in Each Contract

Contract No.	Sub-total Area	Site Formation Works			Area per Month m ² / month
		From	To	Months	
AW - P1	2,146.19	1-Jan-19	31-Dec-21	36	60
AW - P2 - a	33,373.36	1-Jun-21	31-Dec-24	42	795
AW - P2 - b	5,200.96	1-Jun-20	30-May-21	12	433
AW - P3 - a	291,747.00	1-Apr-24	31 Dec 2026 for Development Sites	33	8841
AW - P3 - b	170,203.04	1-Apr-24	31 Dec 2029 for Road P1	69	2467
S1C1	122,434.84	1-Jul-22	30-Jun-25	36	3401
S2C1 - a1	454,597.25	1-Jan-26	31-Dec-28	36	12628
S2C1 - a2 (DCS Site 4-18)	14,002.00	1-Jan-27	31-Dec-29	36	389
S2C1 - b	524,428.54	1-Jan-26	31-Dec-28	36	14567
S2C2	346,582.40	1-Jan-26	31-Dec-28	36	9627
S3C1 - a	221,612.50	1-Jan-31	31-Mar-34	39	5682
S3C1 - b	226,844.24	1-Jan-31	31-Mar-34	39	5817
S3C1 - c	391,274.07	1-Jan-31	31-Mar-34	39	10033
S3C2 - a	378,252.56	1-Oct-31	31-Mar-34	30	12608
S3C2 - b	261,856.99	1-Oct-31	31-Mar-34	30	8729
S3C3 - a	346,530.27	1-Oct-32	30-Sep-35	36	9626
S3C3 - b	117,438.89	1-Oct-32	30-Sep-35	36	3262
S4C1 - a	275,656.00	1-Jul-31	30-Jun-34	36	7657
S4C1 - b	309,758.47	1-Jul-31	30-Jun-34	36	8604



LEGEND:


- - - PROJECT BOUNDARY
- CONTRACT BOUNDARY IN YEAR 2031 - 2036
- CONTRACT BOUNDARY IN YEAR 2019 - 2030
- S2C1 - a CONTRACT NO.




PROJECT
項目

HUNG SHUI KIU NEW DEVELOPMENT AREA PLANNING AND ENGINEERING STUDY - INVESTIGATION

CLIENT
業主


 土木工程拓展署
 Civil Engineering and Development Department


 規劃署
 Planning Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION

IR	DATE	DESCRIPTION	CHK
號	日期	內容摘要	號

STATUS

SCALE	DIMENSION UNIT
比例	尺寸單位
A3 1 : 16000	METRES

KEY PLAN

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項目編號	協議編號
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SHEET TITLE
圖紙名稱

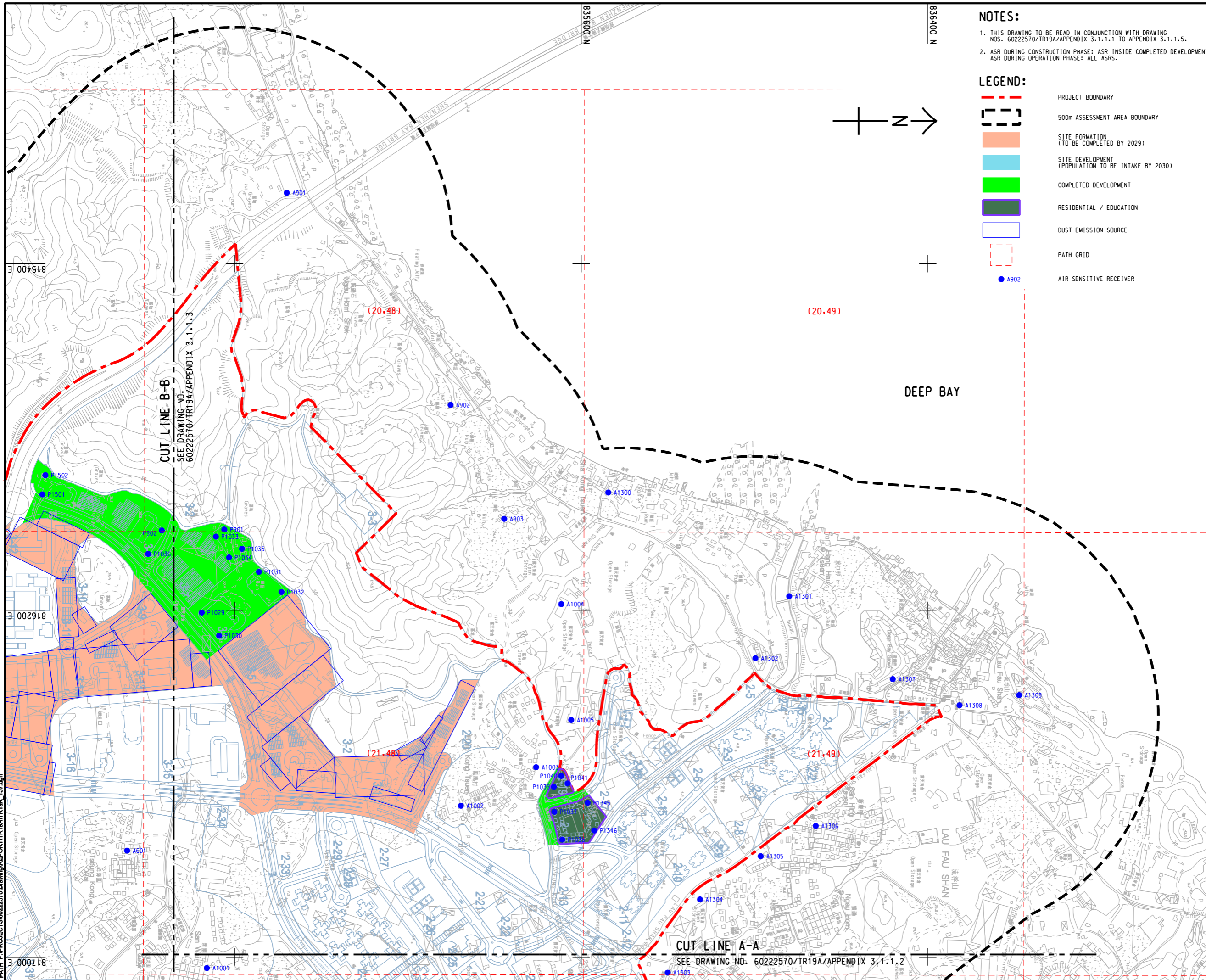
CONTRACT PLAN

SHEET NUMBER
圖紙編號

60222570/TR19A/APPENDIX 3.1.1

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ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
Pld File by: zhaohf
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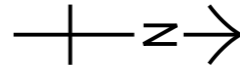


NOTES:

- THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60222570/TR19A/APPENDIX 3.1.1.1 TO APPENDIX 3.1.1.5.
- ASR DURING CONSTRUCTION PHASE: ASR INSIDE COMPLETED DEVELOPMENT, ASR DURING OPERATION PHASE: ALL ASRS.

LEGEND:

- PROJECT BOUNDARY
- 500m ASSESSMENT AREA BOUNDARY
- SITE FORMATION (TO BE COMPLETED BY 2029)
- SITE DEVELOPMENT (POPULATION TO BE INTAKE BY 2030)
- COMPLETED DEVELOPMENT
- RESIDENTIAL / EDUCATION
- DUST EMISSION SOURCE
- PATH GRID
- AIR SENSITIVE RECEIVER



PROJECT
HUNG SHUI KIU NEW DEVELOPMENT AREA PLANNING AND ENGINEERING STUDY - INVESTIGATION

CLIENT

 土木工程拓展署 規劃署
 Civil Engineering and Development Department Planning Department

CONSULTANT

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 分判工程顧問公司

ISSUE/REVISION
 修訂

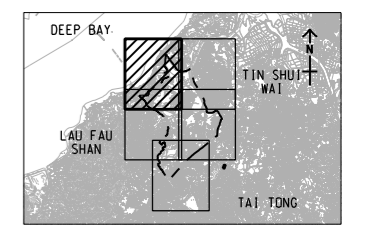
NO.	DATE	DESCRIPTION	CHK.

STATUS
 階段

SCALE
 比例
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DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN
 索引圖
 A3 1 : 300000



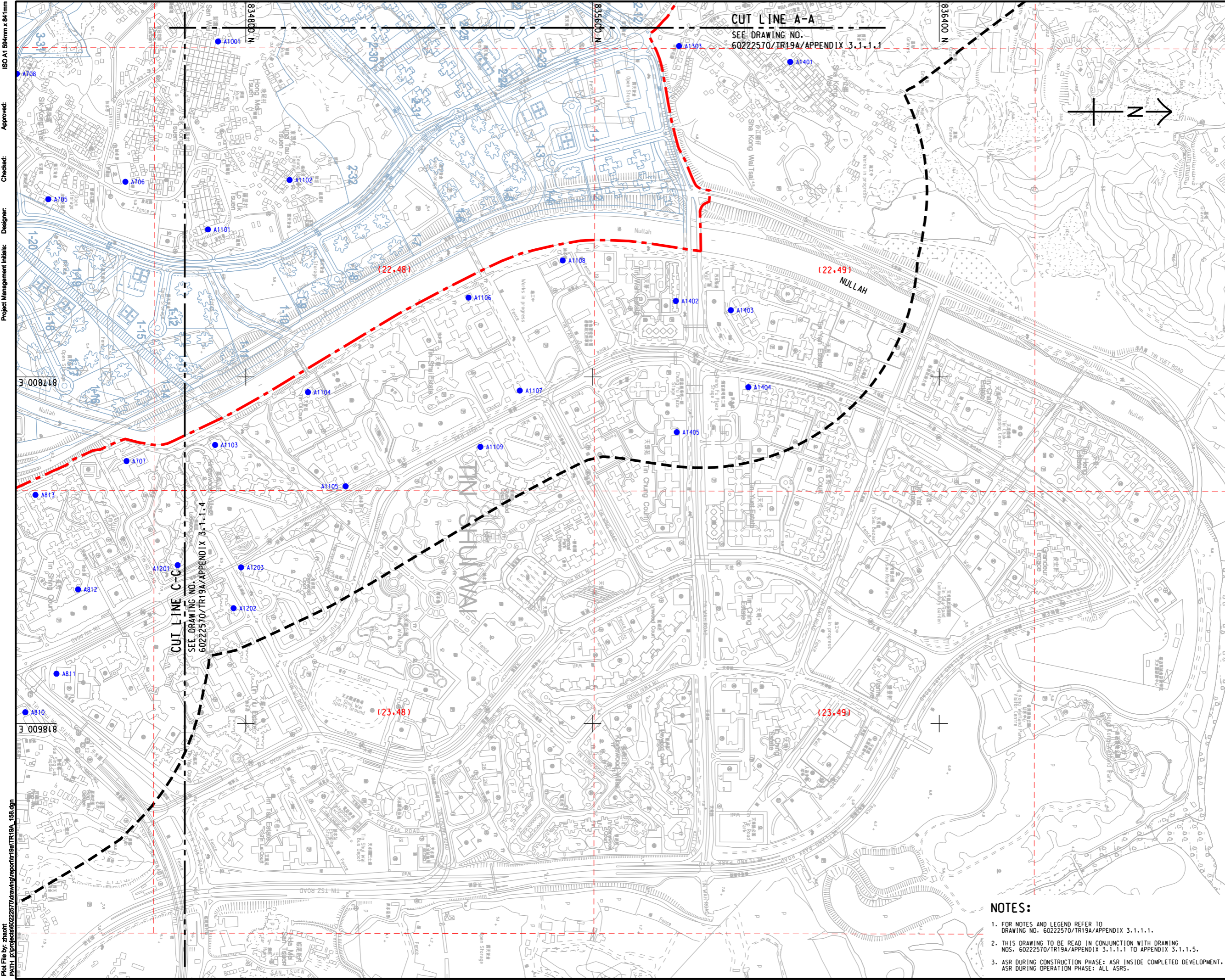
PROJECT NO.
 項目編號
 60222570

AGREEMENT NO.
 協議編號
 CE2/2011 (CE)

SHEET TITLE
 圖紙名稱
 LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2019-2030 (UNMITIGATED SCENARIO AND TIER 1) SHEET 1 OF 5

SHEET NUMBER
 圖紙編號
 60222570/TR19A/APPENDIX 3.1.1.1

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 Designer:
 Project Management Initials:
 Pld File by: zhaohit
 PATH: E:\projects\60222570\drawing\pcenter\0a\TR19A_158.dgn



PROJECT
 HUNG SHUI KIU NEW DEVELOPMENT AREA
 PLANNING AND ENGINEERING STUDY
 - INVESTIGATION

CLIENT
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 Civil Engineering and Development Department
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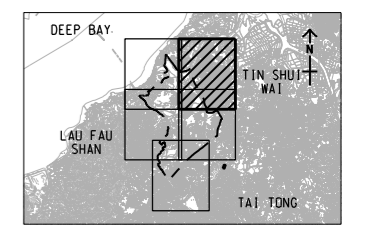
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 分判工程顧問公司

ISSUE/REVISION
 修訂

IR	DATE	DESCRIPTION	CHK.

STATUS
 狀態

SCALE
 比例
 A3 1 : 8000
KEY PLAN A3 1 : 300000
 索引圖



PROJECT NO.
 項目編號
 60222570
AGREEMENT NO.
 協議編號
 CE2/2011 (CE)

SHEET TITLE
 圖紙名稱
 LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2019-2030 (UNMITIGATED SCENARIO AND TIER 1)
 SHEET 2 OF 5
SHEET NUMBER
 圖紙編號
 60222570/TR19A/APPENDIX 3.1.1.2

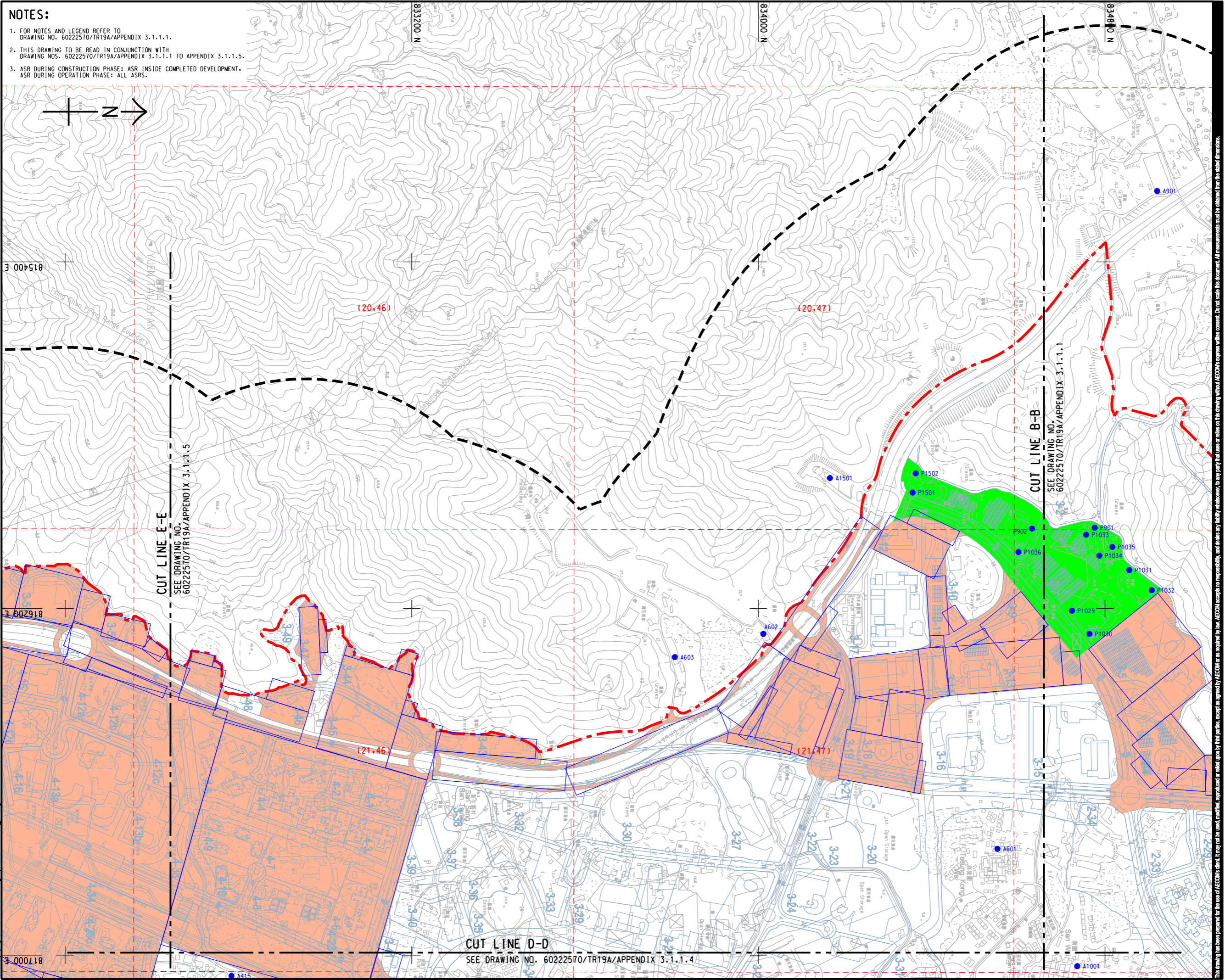
- NOTES:**
- FOR NOTES AND LEGEND REFER TO DRAWING NO. 60222570/TR19A/APPENDIX 3.1.1.1.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60222570/TR19A/APPENDIX 3.1.1.1 TO APPENDIX 3.1.1.5.
 - ASR DURING CONSTRUCTION PHASE: ASR INSIDE COMPLETED DEVELOPMENT, ASR DURING OPERATION PHASE: ALL ASRS.

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NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60222570/TR19A/APPENDIX 3.1.1.1.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60222570/TR19A/APPENDIX 3.1.1.1 TO APPENDIX 3.1.1.5.
3. ASR DURING CONSTRUCTION PHASE: ASR INSIDE COMPLETED DEVELOPMENT.
ASR DURING OPERATION PHASE: ALL ASRS.



PROJECT
HUNG SHUI KIU NEW DEVELOPMENT AREA PLANNING AND ENGINEERING STUDY - INVESTIGATION

CLIENT
 業主
 
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 Civil Engineering and Development Department Planning Department

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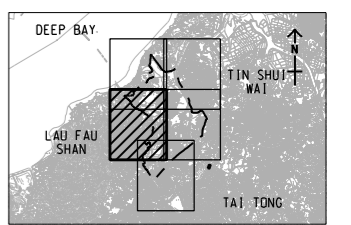
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ISSUE/REVISION
 修訂

IR 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS
 階段

SCALE
 比例
 A3 1 : 8000
DIMENSION UNIT
 尺寸單位
 METRES



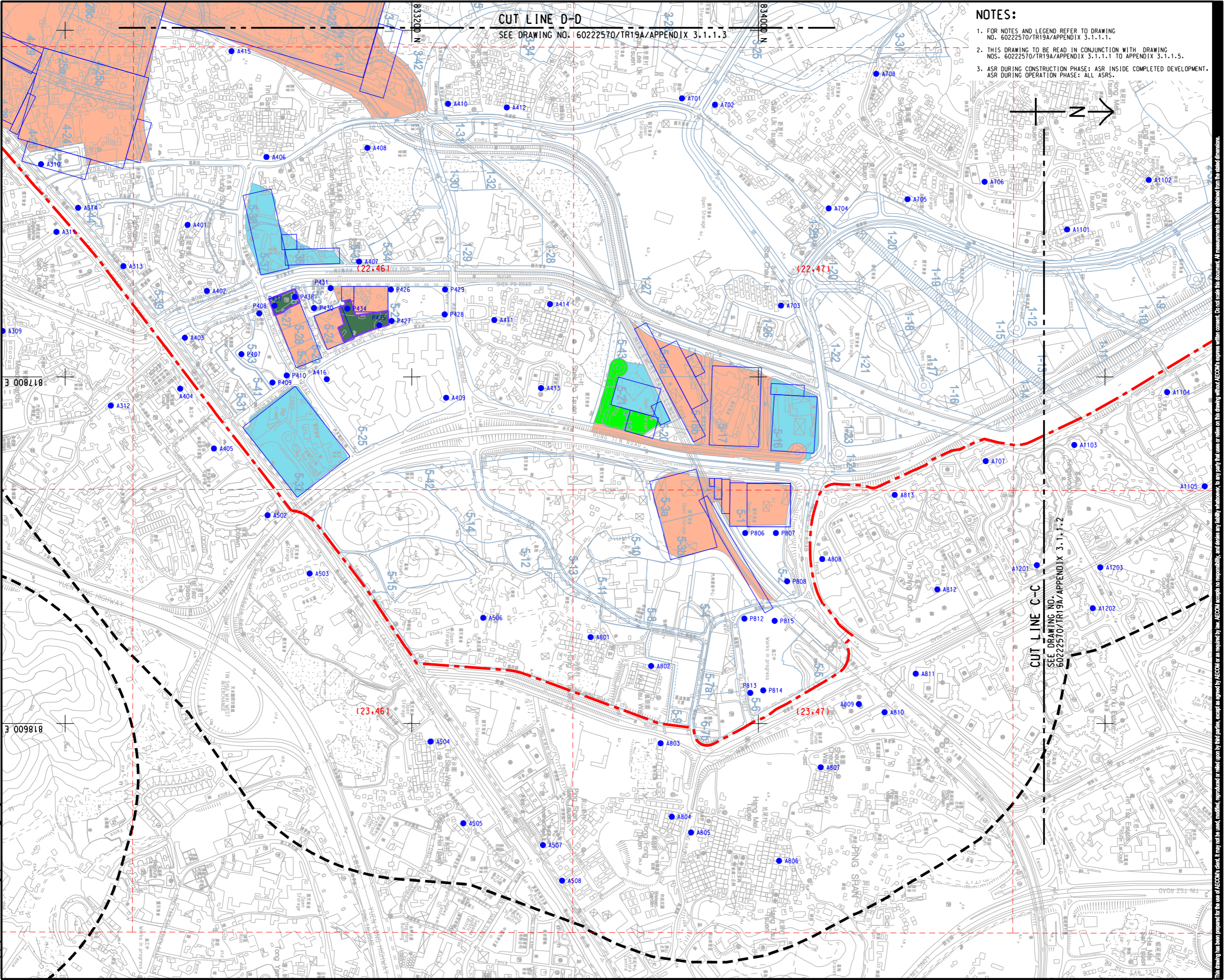
PROJECT NO.
 項目編號
 60222570
AGREEMENT NO.
 協議編號
 CE2/2011 (CE)

SHEET TITLE
 圖紙名稱
 LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2019-2030 (UNMITIGATED SCENARIO AND TIER 1)
 SHEET 3 OF 5

SHEET NUMBER
 圖紙編號
 60222570/TR19A/APPENDIX 3.1.1.3

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Pld File by: zhaohit
PATH: E:\projects\60222570\drawing\paper\6a\TR19A_160.dgn



CUT LINE D-D
SEE DRAWING NO. 60222570/TR19A/APPENDIX 3.1.1.3

- NOTES:**
- FOR NOTES AND LEGEND REFER TO DRAWING NO. 60222570/TR19A/APPENDIX 3.1.1.1.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60222570/TR19A/APPENDIX 3.1.1.1 TO APPENDIX 3.1.1.5.
 - ASR DURING CONSTRUCTION PHASE: ASR INSIDE COMPLETED DEVELOPMENT, ASR DURING OPERATION PHASE: ALL ASRS.





CUT LINE C-C
SEE DRAWING NO. 60222570/TR19A/APPENDIX 3.1.1.2

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PROJECT
HUNG SHUI KIU NEW DEVELOPMENT AREA PLANNING AND ENGINEERING STUDY - INVESTIGATION

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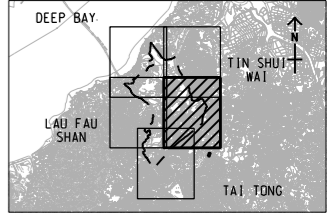
ISSUE/REVISION

IR	DATE	DESCRIPTION	CHK.

STATUS

SCALE
A3 1 : 8000
DIMENSION UNIT
METRES

KEY PLAN A3 1 : 300000



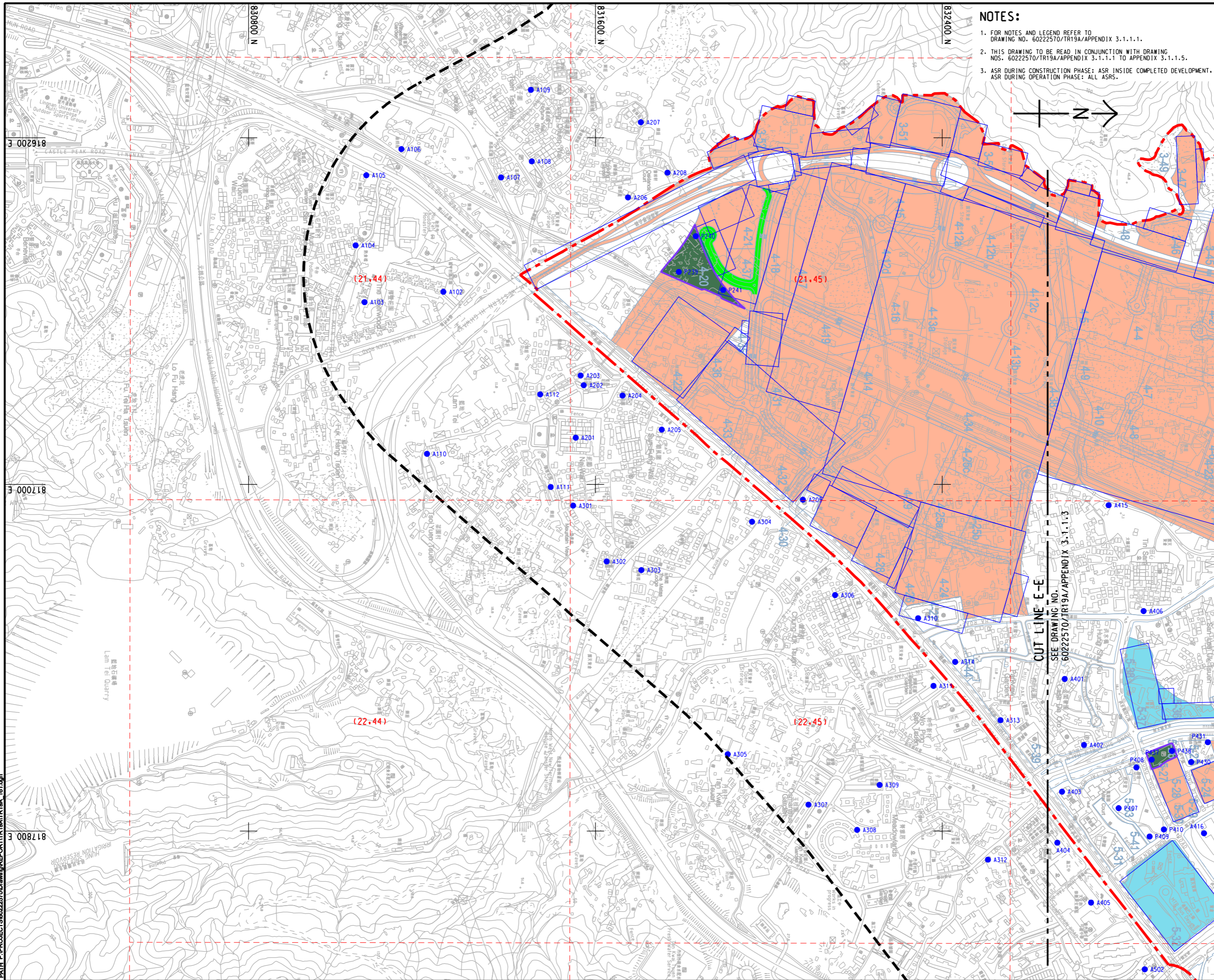
PROJECT NO. 60222570
AGREEMENT NO. CE2/2011 (CE)

SHEET TITLE
LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2019-2030 (UNMITIGATED SCENARIO AND TIER 1) SHEET 4 OF 5

SHEET NUMBER
60222570/TR19A/APPENDIX 3.1.1.4

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Designer:
Project Management Initials:
Pld File by: zhaohh
PATH: P:\PROJECTS\60222570\DRAWING\REPORT\TR19A\TR19A_161.dgn



- NOTES:**
- FOR NOTES AND LEGEND REFER TO DRAWING NO. 60222570/TR19A/APPENDIX 3.1.1.1.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60222570/TR19A/APPENDIX 3.1.1.1 TO APPENDIX 3.1.1.5.
 - ASR DURING CONSTRUCTION PHASE: ASR INSIDE COMPLETED DEVELOPMENT. ASR DURING OPERATION PHASE: ALL ASRS.

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PROJECT
項目

HUNG SHUI KIU NEW DEVELOPMENT AREA PLANNING AND ENGINEERING STUDY - INVESTIGATION

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STATUS
狀態

SCALE
比例

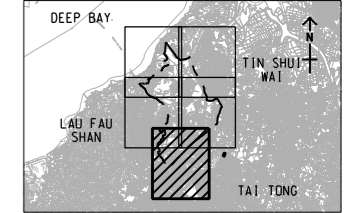
A3 1 : 8000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

A3 1 : 300000



PROJECT NO.
項目編號

60222570

AGREEMENT NO.
協議編號

CE2/2011 (CE)

SHEET TITLE
圖紙名稱

LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2019-2030 (UNMITIGATED SCENARIO AND TIER 1)

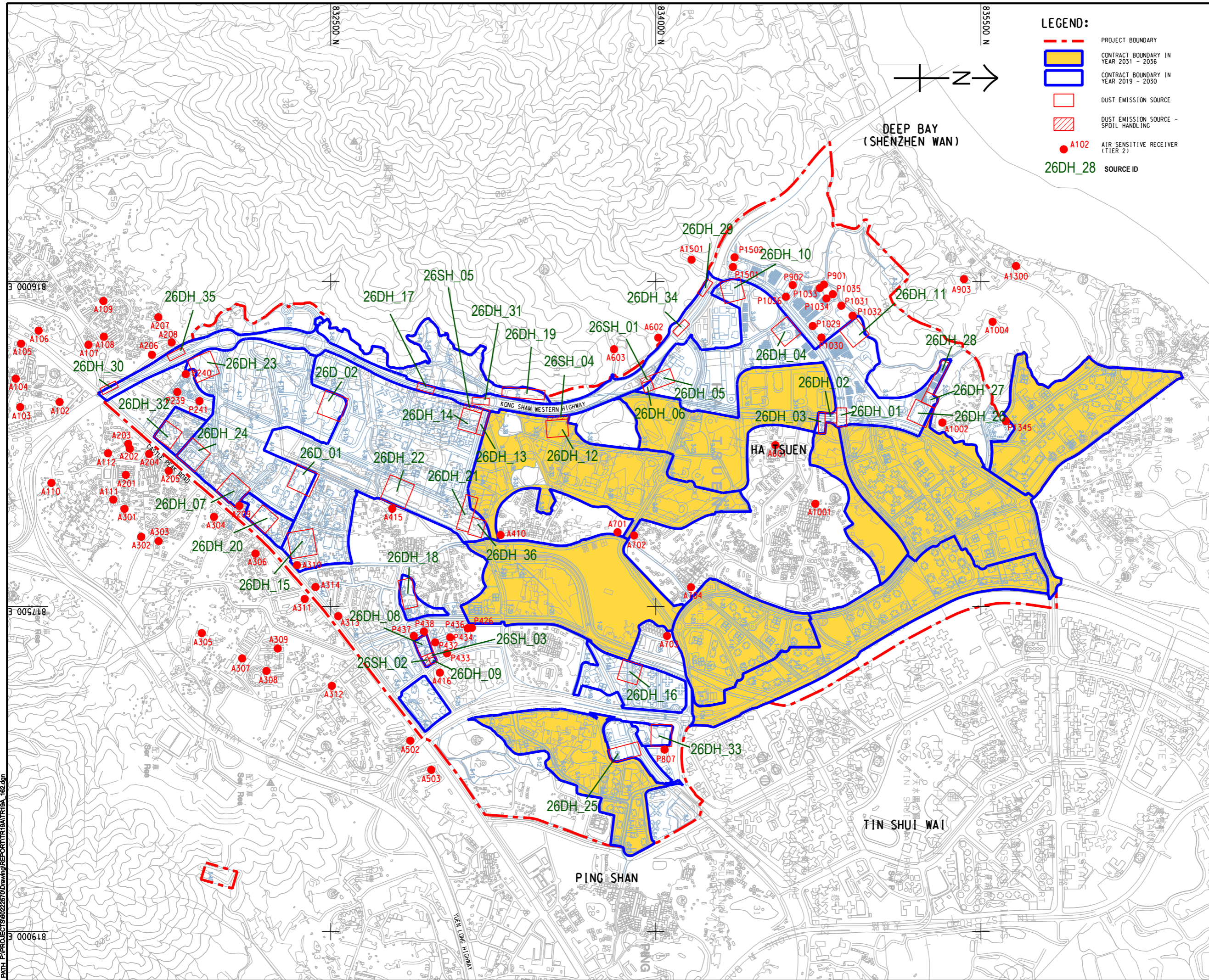
SHEET 5 OF 5

SHEET NUMBER
圖紙編號

60222570/TR19A/APPENDIX 3.1.1.5

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 Designer:
 Project Management Initials:
 Pld File by: zhuohit
 PATH: P:\PROJECTS\6022570\DRAWING\REPORT\TR19A\TR19A_182.dgn
 000918
 005218
 000618



LEGEND:

- PROJECT BOUNDARY
- CONTRACT BOUNDARY IN YEAR 2031 - 2036
- CONTRACT BOUNDARY IN YEAR 2019 - 2030
- DUST EMISSION SOURCE
- DUST EMISSION SOURCE - SPOIL HANDLING
- A102 AIR SENSITIVE RECEIVER (TIER 2)
- 26DH_28 SOURCE ID

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PROJECT
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SCALE
 比例: A3 1 : 16000

DIMENSION UNIT
 尺寸單位: METRES

KEY PLAN
 索引圖

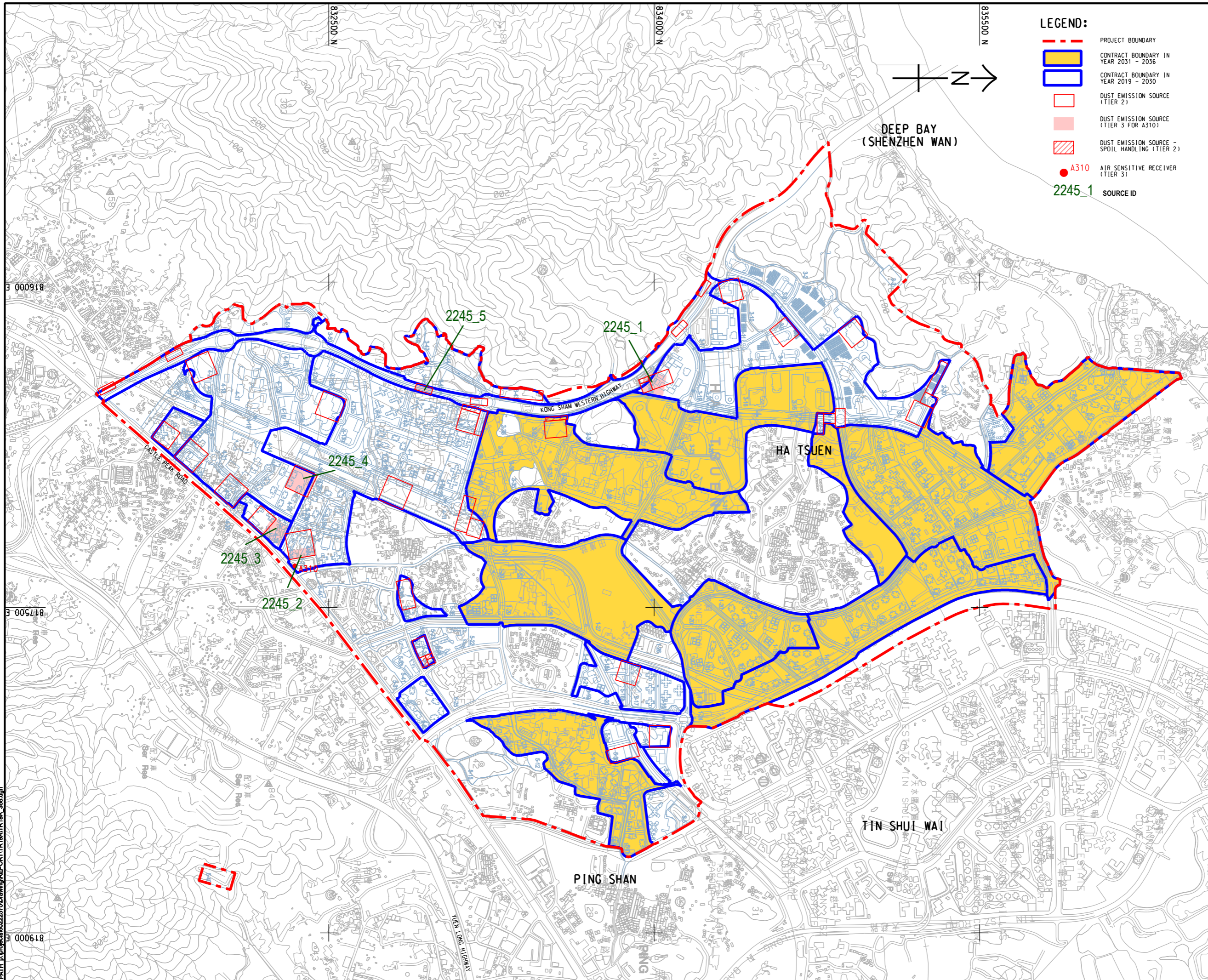
PROJECT NO.
 項目編號: 60222570

AGREEMENT NO.
 協議編號: CE2/2011 (CE)

SHEET TITLE
 圖紙標題: LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2019-2030 (TIER 2)

SHEET NUMBER
 圖紙編號: 60222570/TR19A/APPENDIX 3.1.2.1

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LEGEND:



- PROJECT BOUNDARY
- CONTRACT BOUNDARY IN YEAR 2031 - 2036
- CONTRACT BOUNDARY IN YEAR 2019 - 2030
- DUST EMISSION SOURCE (TIER 2)
- DUST EMISSION SOURCE (TIER 3 FOR A310)
- DUST EMISSION SOURCE - SPOIL HANDLING (TIER 2)
- AIR SENSITIVE RECEIVER (TIER 3)
- A310
- 2245_1 SOURCE ID



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IR	DATE	DESCRIPTION	CHK

STATUS

SCALE	DIMENSION UNIT
A3 1 : 16000	METRES

KEY PLAN

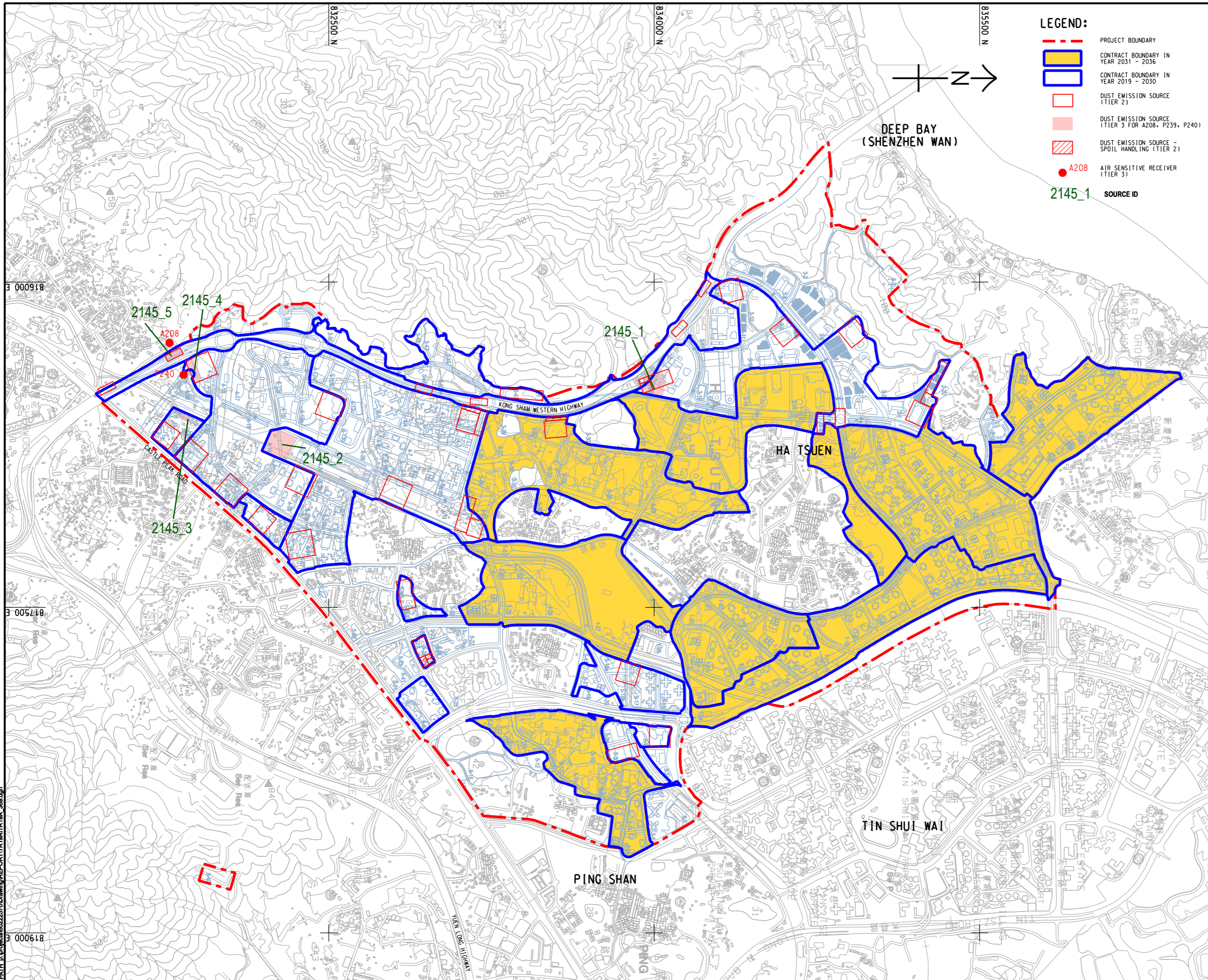
PROJECT NO.	AGREEMENT NO.
60222570	CE2/2011 (CE)

SHEET TITLE

LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2019-2030 (TIER 3 FOR A310)

SHEET NUMBER
60222570/TR19A/APPENDIX 3.1.2.2

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LEGEND:

- PROJECT BOUNDARY
- CONTRACT BOUNDARY IN YEAR 2031 - 2036
- CONTRACT BOUNDARY IN YEAR 2019 - 2030
- DUST EMISSION SOURCE (TIER 2)
- DUST EMISSION SOURCE (TIER 3 FOR A208, P239, P240)
- DUST EMISSION SOURCE - SPOIL HANDLING (TIER 2)
- AIR SENSITIVE RECEIVER (TIER 3)
- A208
- 2145_1 SOURCE ID



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ISSUE/REVISION

IR	DATE	DESCRIPTION	CHK

STATUS

SCALE **DIMENSION UNIT**
 比例 尺寸單位
 A3 1 : 16000 METRES

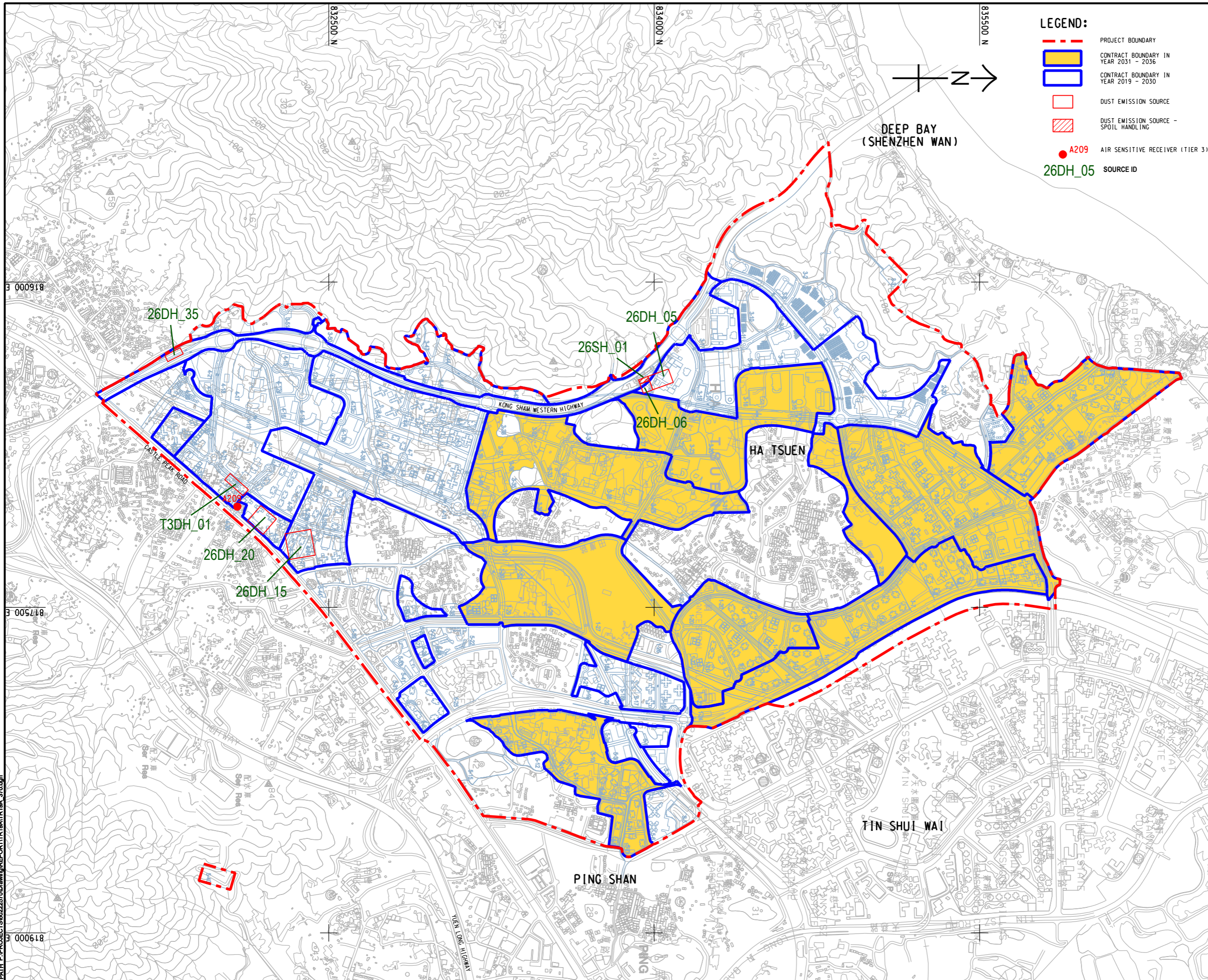
KEY PLAN

PROJECT NO. **AGREEMENT NO.**
 項目編號 協議編號
 60222570 CE2/2011 (CE)

SHEET TITLE
 圖號
 LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2019-2030 (TIER 3 FOR A208,P240)

SHEET NUMBER
 圖號
 60222570/TR19A/APPENDIX 3.1.2.3

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- LEGEND:**
- PROJECT BOUNDARY
 - CONTRACT BOUNDARY IN YEAR 2031 - 2036
 - CONTRACT BOUNDARY IN YEAR 2019 - 2030
 - DUST EMISSION SOURCE
 - DUST EMISSION SOURCE - SPOIL HANDLING
 - A209 AIR SENSITIVE RECEIVER (TIER 3)
 - 26DH_05 SOURCE ID

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PROJECT
项目

HUNG SHUI KIU NEW DEVELOPMENT AREA PLANNING AND ENGINEERING STUDY - INVESTIGATION

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STATUS
现状

SCALE
比例

A3 1 : 16000

DIMENSION UNIT
尺寸单位

METRES

KEY PLAN
索引图

PROJECT NO.
项目编号

60222570

AGREEMENT NO.
协议编号

CE2/2011 (CE)

SHEET TITLE
图名

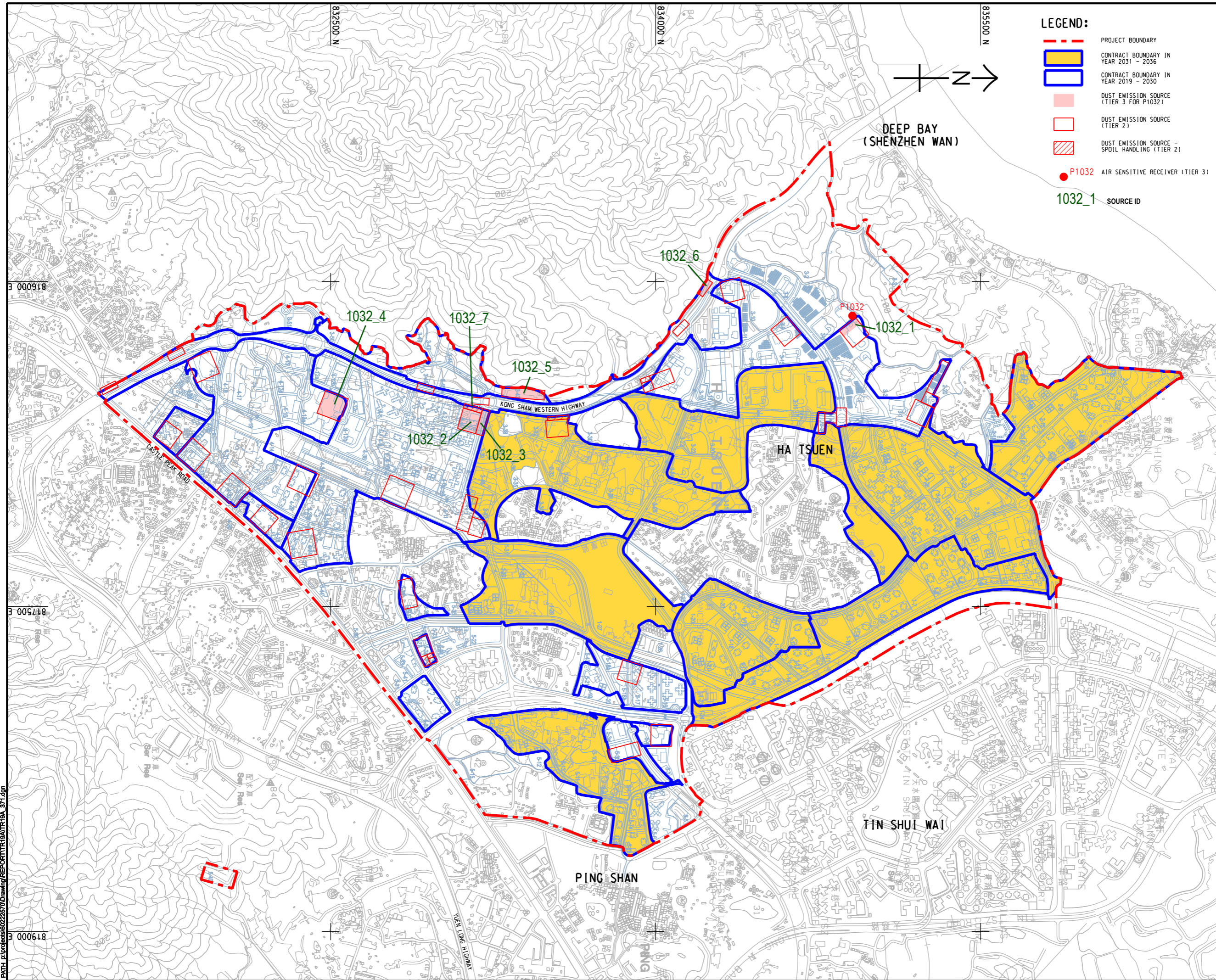
LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2019-2030 (TIER 3 FOR A209)

SHEET NUMBER
图号

60222570/TR19A/APPENDIX 3.1.2.4

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LEGEND:

- PROJECT BOUNDARY
- CONTRACT BOUNDARY IN YEAR 2031 - 2036
- CONTRACT BOUNDARY IN YEAR 2019 - 2030
- DUST EMISSION SOURCE (TIER 3 FOR P1032)
- DUST EMISSION SOURCE (TIER 2)
- DUST EMISSION SOURCE - SPOIL HANDLING (TIER 2)
- P1032 AIR SENSITIVE RECEIVER (TIER 3)
- 1032_1 SOURCE ID



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ISSUE/REVISION

IR	DATE	DESCRIPTION	CHK

STATUS

SCALE 比例: A3 1 : 16000
DIMENSION UNIT 尺寸單位: METRES

KEY PLAN

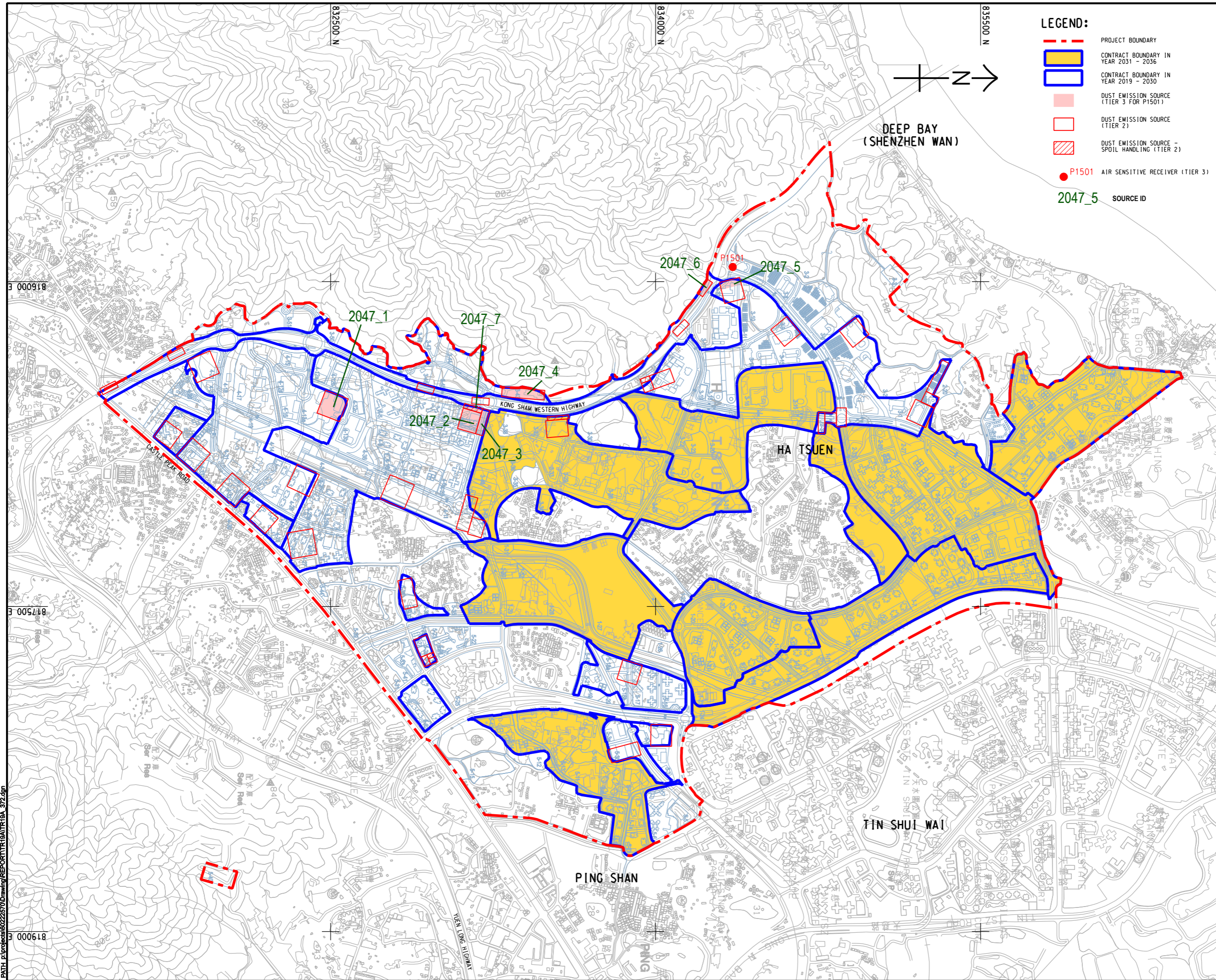
PROJECT NO. 項目編號: 60222570
AGREEMENT NO. 協議編號: CE2/2011 (CE)

SHEET TITLE 圖號/圖名: LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2019-2030 (TIER 3 FOR P1032)

SHEET NUMBER 圖號/圖號: 60222570/TR19A/APPENDIX 3.1.2.5

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LEGEND:

- PROJECT BOUNDARY
- CONTRACT BOUNDARY IN YEAR 2031 - 2036
- CONTRACT BOUNDARY IN YEAR 2019 - 2030
- DUST EMISSION SOURCE (TIER 3 FOR P1501)
- DUST EMISSION SOURCE (TIER 2)
- DUST EMISSION SOURCE - SPOIL HANDLING (TIER 2)
- P1501 AIR SENSITIVE RECEIVER (TIER 3)
- 2047_5 SOURCE ID



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PROJECT
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號	日期	內容摘要	核

STATUS
 階段

SCALE 比例: A3 1 : 16000
DIMENSION UNIT 尺寸單位: METRES

KEY PLAN
 索引圖

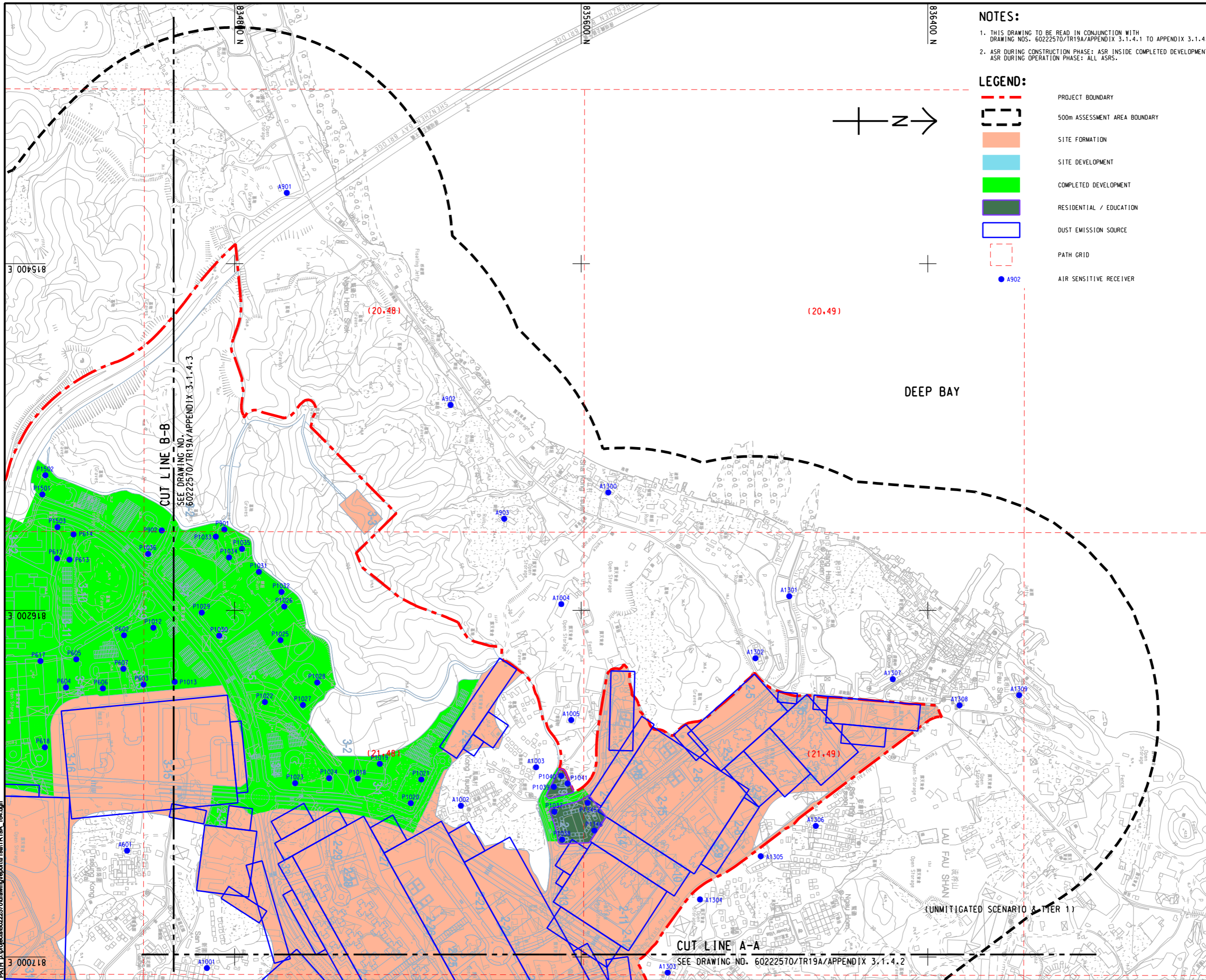
PROJECT NO. 項目編號: 60222570
AGREEMENT NO. 協議編號: CE2/2011 (CE)

SHEET TITLE 圖紙名稱: LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2019-2030 (TIER 3 FOR P1501)

SHEET NUMBER 圖紙編號: 60222570/TR19A/APPENDIX 3.1.2.6

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 ISO A1 594mm x 841mm
 Approved:
 Checked:
 Designer:
 Project Management Initials:

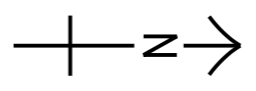


NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60222570/TR19A/APPENDIX 3.1.4.1 TO APPENDIX 3.1.4.5.
2. ASR DURING CONSTRUCTION PHASE: ASR INSIDE COMPLETED DEVELOPMENT, ASR DURING OPERATION PHASE: ALL ASRS.

LEGEND:

- PROJECT BOUNDARY
- 500m ASSESSMENT AREA BOUNDARY
- SITE FORMATION
- SITE DEVELOPMENT
- COMPLETED DEVELOPMENT
- RESIDENTIAL / EDUCATION
- DUST EMISSION SOURCE
- PATH GRID
- A902 AIR SENSITIVE RECEIVER



PROJECT
HUNG SHUI KIU NEW DEVELOPMENT AREA PLANNING AND ENGINEERING STUDY - INVESTIGATION

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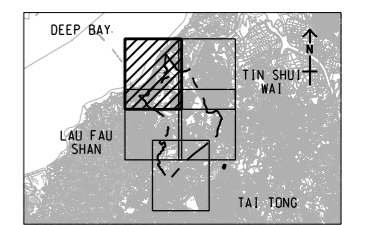
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NO.	DATE	DESCRIPTION	CHK.

STATUS
 階段

SCALE
 比例
 A3 1 : 8000
KEY PLAN A3 1 : 300000
 索引圖



PROJECT NO.
 項目編號
 60222570
AGREEMENT NO.
 協議編號
 CE2/2011 (CE)

SHEET TITLE
 圖紙名稱
LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2031-2036 (UNMITIGATED SCENARIO AND TIER 1)
 SHEET 1 OF 5

SHEET NUMBER
 圖紙編號
 60222570/TR19A/APPENDIX 3.1.4.1

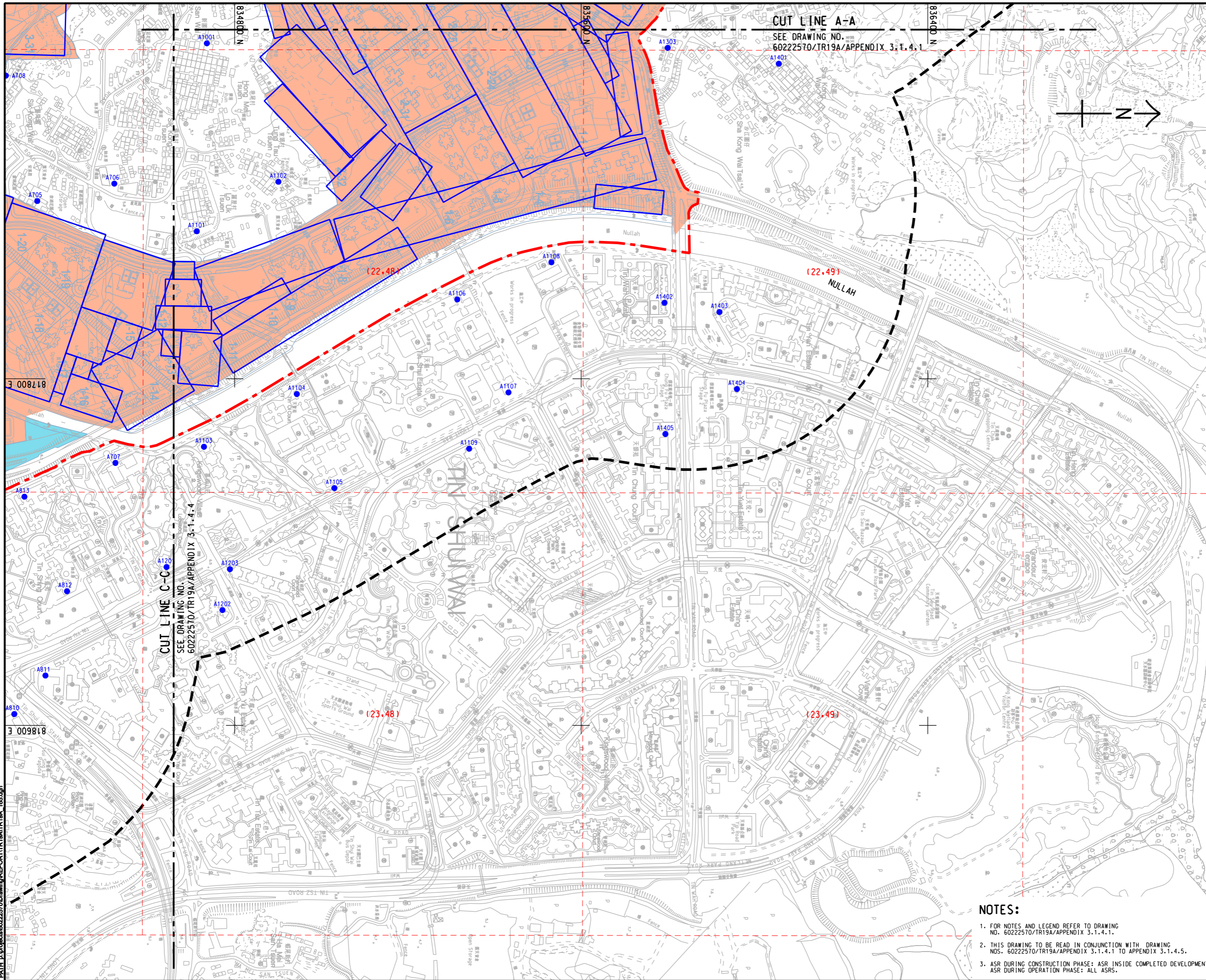
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SEE DRAWING NO. 60222570/TR19A/APPENDIX 3.1.4.2

SEE DRAWING NO. 60222570/TR19A/APPENDIX 3.1.4.3

(UNMITIGATED SCENARIO & TIER 1)

Pld File by: ZHONGDY
 PATH: E:\Projects\60222570\Drawing\REPORT\TR19A\TR19A_165.dgn
 ISO A1 594mm x 841mm
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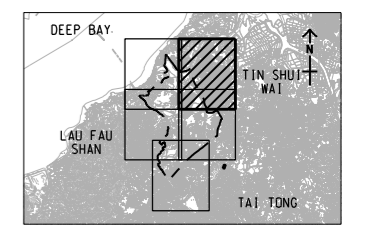
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 修訂

IR	DATE	DESCRIPTION	CHK.

STATUS
 圖版

SCALE
 比例
 A3 1 : 8000
KEY PLAN A3 1 : 300000



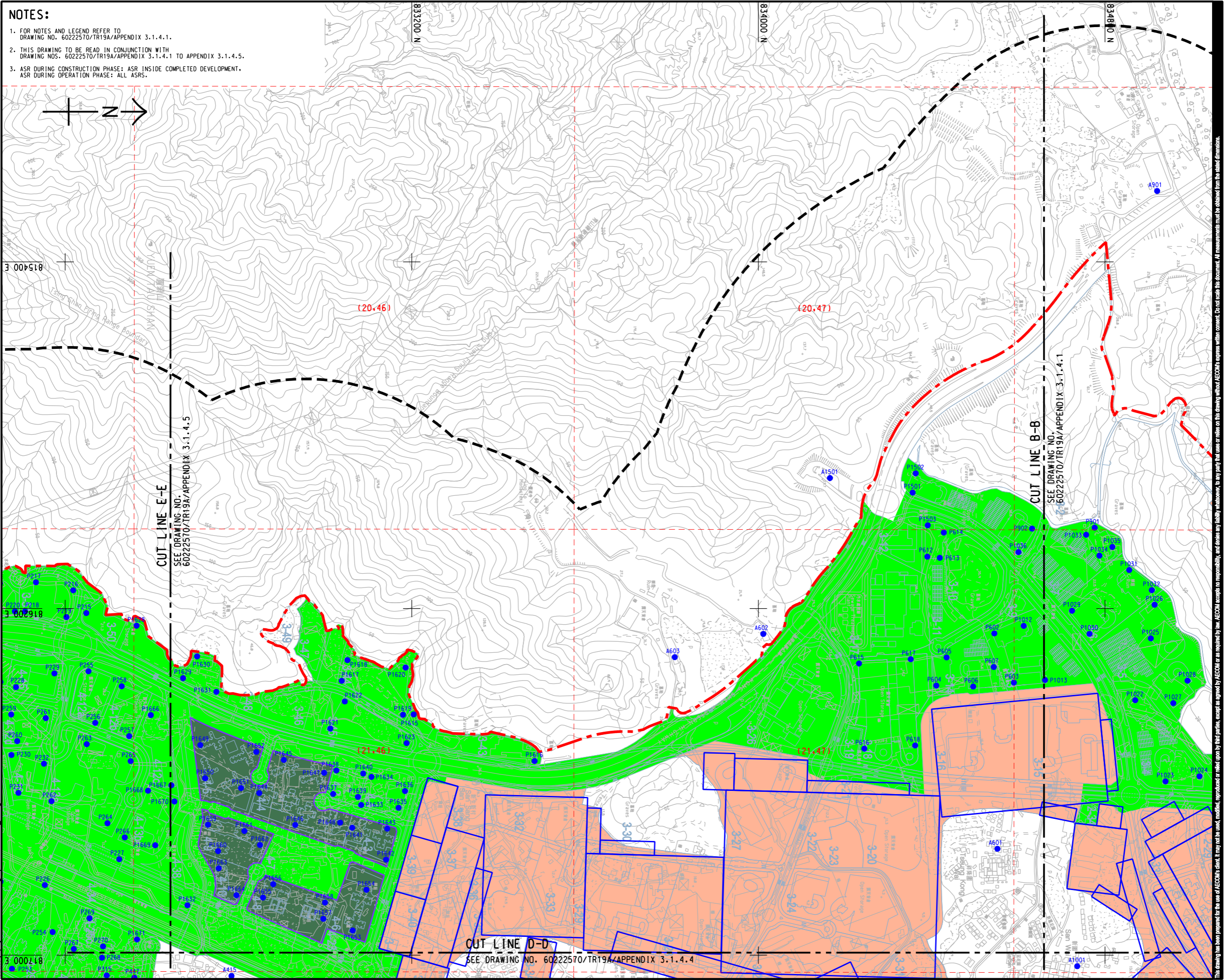
PROJECT NO.
 項目編號
 60222570
AGREEMENT NO.
 協議編號
 CE2/2011 (CE)

SHEET TITLE
 圖版名稱
LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2031-2036 (UNMITIGATED SCENARIO AND TIER 1)
 SHEET 2 OF 5
SHEET NUMBER
 圖版編號
 60222570/TR19A/APPENDIX 3.1.4.2

- NOTES:**
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 - THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60222570/TR19A/APPENDIX 3.1.4.1 TO APPENDIX 3.1.4.5.
 - ASR DURING CONSTRUCTION PHASE: ASR INSIDE COMPLETED DEVELOPMENT, ASR DURING OPERATION PHASE: ALL ASRS.

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 Designer:
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NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60222570/TR19A/APPENDIX 3.1.4.1.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60222570/TR19A/APPENDIX 3.1.4.1 TO APPENDIX 3.1.4.5.
3. ASR DURING CONSTRUCTION PHASE: ASR INSIDE COMPLETED DEVELOPMENT.
ASR DURING OPERATION PHASE: ALL ASRS.

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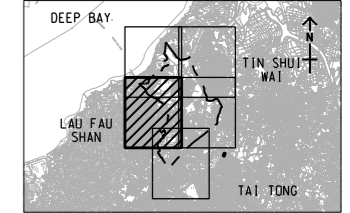
NO.	DATE	DESCRIPTION	CHK.

STATUS
 備註

SCALE
 比例

DIMENSION UNIT
 尺寸單位

A3 1 : 8000 METRES
 A3 1 : 300000



PROJECT NO.
 項目編號
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AGREEMENT NO.
 協議編號
 CE2/2011 (CE)

SHEET TITLE
 圖紙名稱
 LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2031 - 2036 (UNMITIGATED SCENARIO AND TIER 1)

SHEET NUMBER
 圖紙編號
 60222570/TR19A/APPENDIX 3.1.4.3

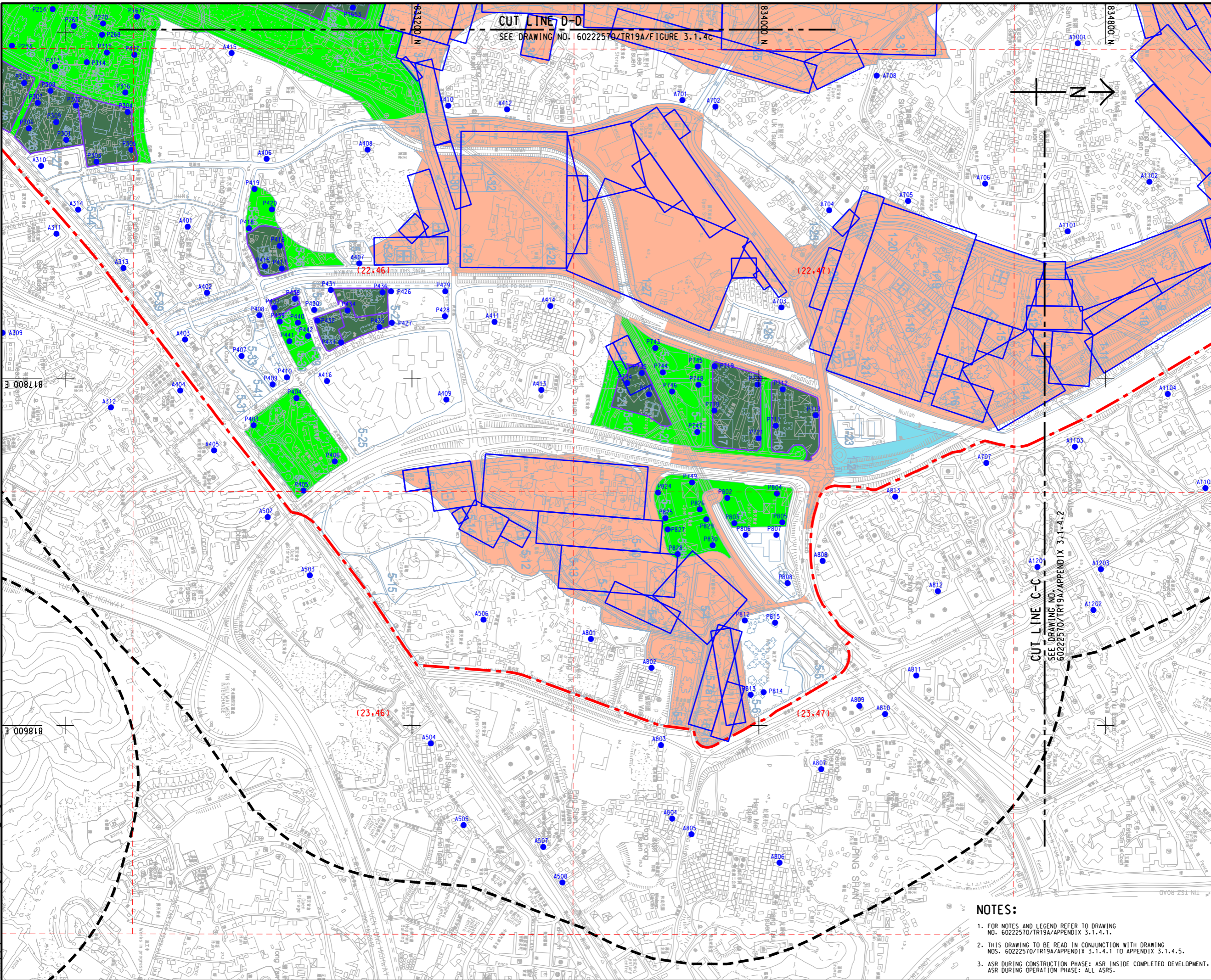
SHEET 3 OF 5

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CUT LINE D-D
SEE DRAWING NO. 60222570/TR19A/FIGURE 3.1.4C

CUT LINE C-C
SEE DRAWING NO. 60222570/TR19A/APPENDIX 3.1.4.2



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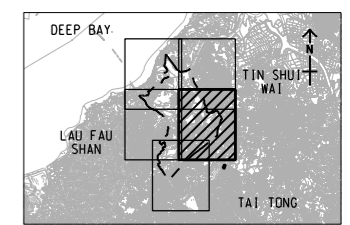
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STATUS

SCALE
A3 1 : 8000
KEY PLAN A3 1 : 300000



PROJECT NO. 60222570
AGREEMENT NO. CE2/2011 (CE)

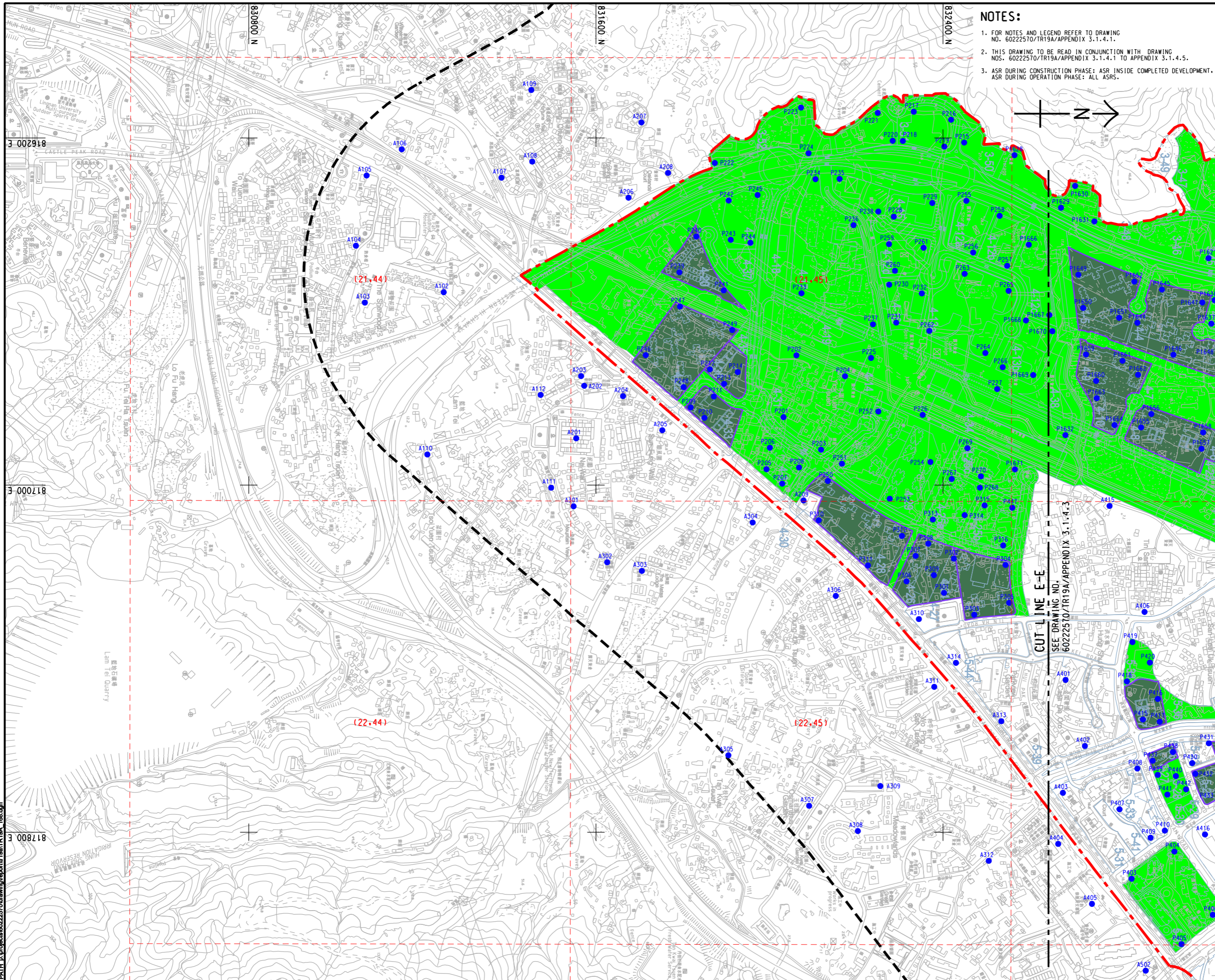
SHEET TITLE
LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2031 - 2036 (UNMITIGATED SCENARIO AND TIER 1)
SHEET NUMBER
60222570/TR19A/APPENDIX 3.1.4.4

- NOTES:**
- FOR NOTES AND LEGEND REFER TO DRAWING NO. 60222570/TR19A/APPENDIX 3.1.4.1.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60222570/TR19A/APPENDIX 3.1.4.1 TO APPENDIX 3.1.4.5.
 - ASR DURING CONSTRUCTION PHASE: ASR INSIDE COMPLETED DEVELOPMENT, ASR DURING OPERATION PHASE: ALL ASRS.

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 PATH: E:\projects\60222570\drawing\pcenter\6a1TR19A_168.dgn



NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60222570/TR19A/APPENDIX 3.1.4.1.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60222570/TR19A/APPENDIX 3.1.4.1 TO APPENDIX 3.1.4.5.
3. ASR DURING CONSTRUCTION PHASE: ASR INSIDE COMPLETED DEVELOPMENT, ASR DURING OPERATION PHASE: ALL ASRS.



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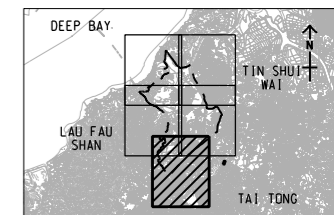
IR	DATE	DESCRIPTION	CHK.

STATUS

SCALE **DIMENSION UNIT**

A3 1 : 8000 METRES

KEY PLAN A3 1 : 300000



PROJECT NO.

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AGREEMENT NO.

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SHEET TITLE

LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2031 - 2036 (UNMITIGATED SCENARIO AND TIER 1)

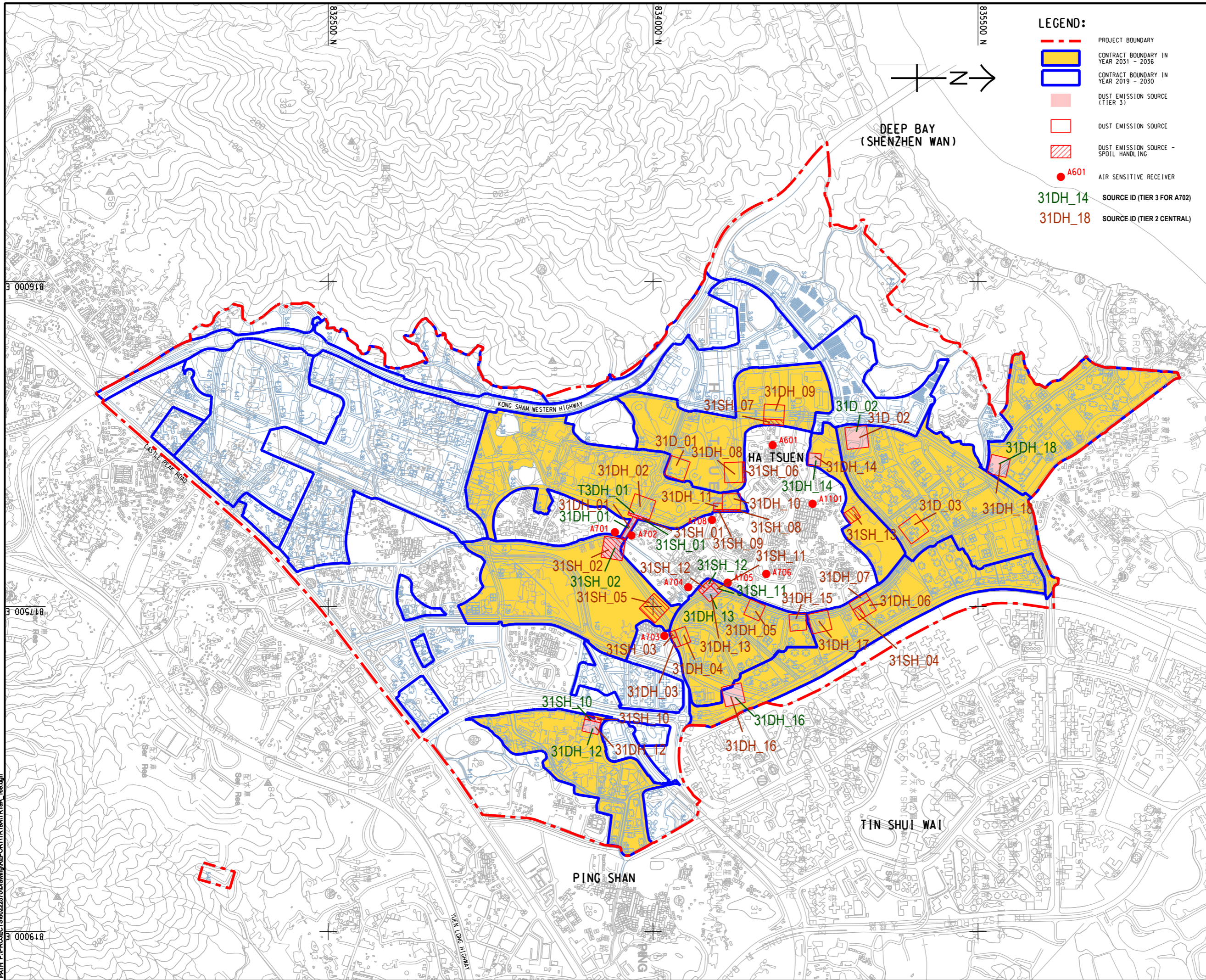
SHEET 5 OF 5

SHEET NUMBER

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 Pld File by: zhuohh
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 000618
 000618



- LEGEND:**
- PROJECT BOUNDARY
 - CONTRACT BOUNDARY IN YEAR 2031 - 2036
 - CONTRACT BOUNDARY IN YEAR 2019 - 2030
 - DUST EMISSION SOURCE (TIER 3)
 - DUST EMISSION SOURCE
 - DUST EMISSION SOURCE - SPOIL HANDLING
 - A601 AIR SENSITIVE RECEIVER
 - 31DH_14 SOURCE ID (TIER 3 FOR A702)
 - 31DH_18 SOURCE ID (TIER 2 CENTRAL)



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SCALE
 比例: A3 1 : 16000

DIMENSION UNIT
 尺寸單位: METRES

PROJECT NO.
 項目編號: 60222570

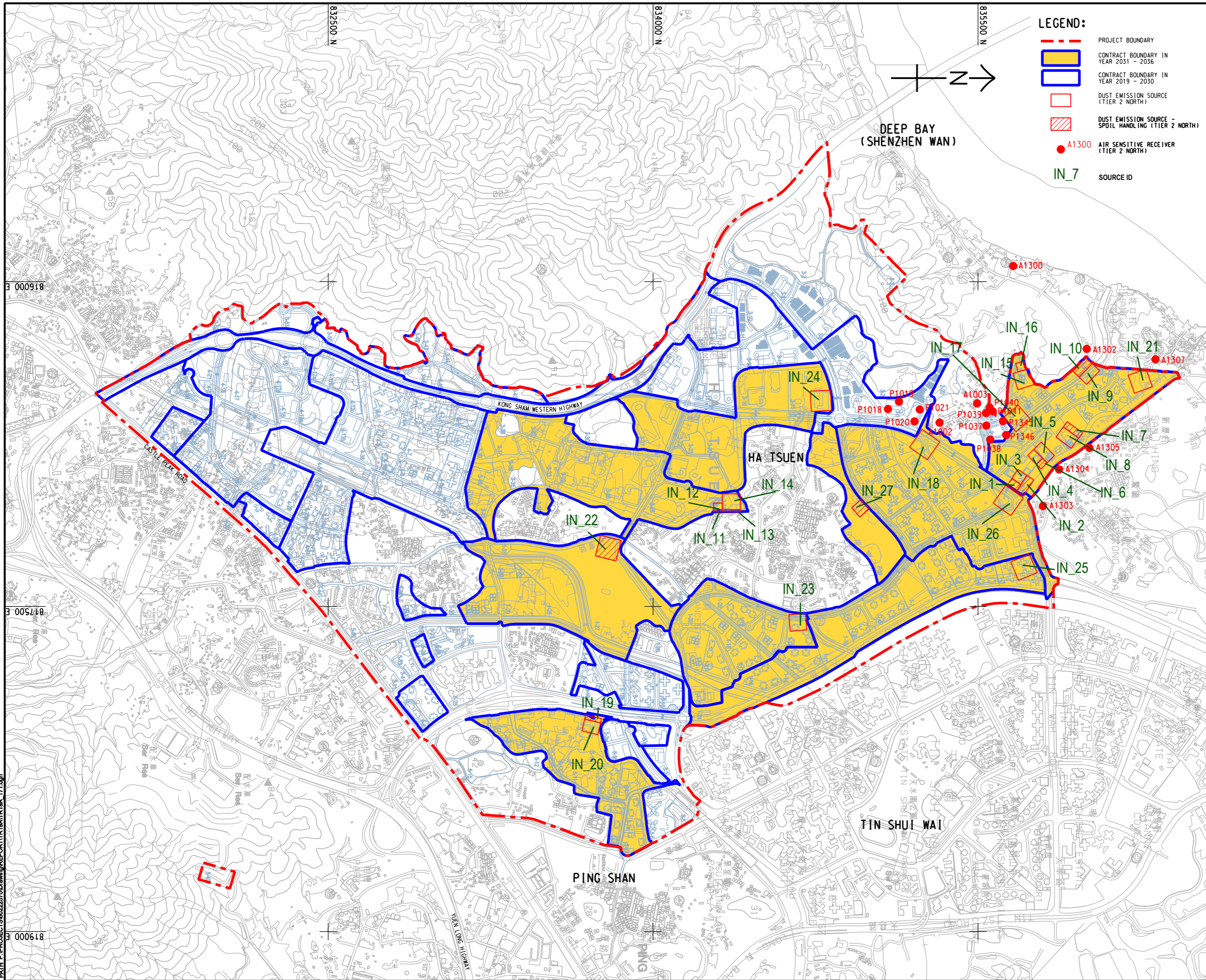
AGREEMENT NO.
 協議編號: CE2/2011 (CE)

SHEET TITLE
 圖則名稱: LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2031-2036 (TIER 2 CENTRAL AND TIER 3 FOR A702)

SHEET NUMBER
 圖則編號: 60222570/TR19A/APPENDIX 3.1.5

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 819000



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號	日期	內容摘要	號

STATUS
 階段

SCALE
 比例
 A3 1 : 16000

DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN
 索引圖

PROJECT NO.
 項目編號
 60222570

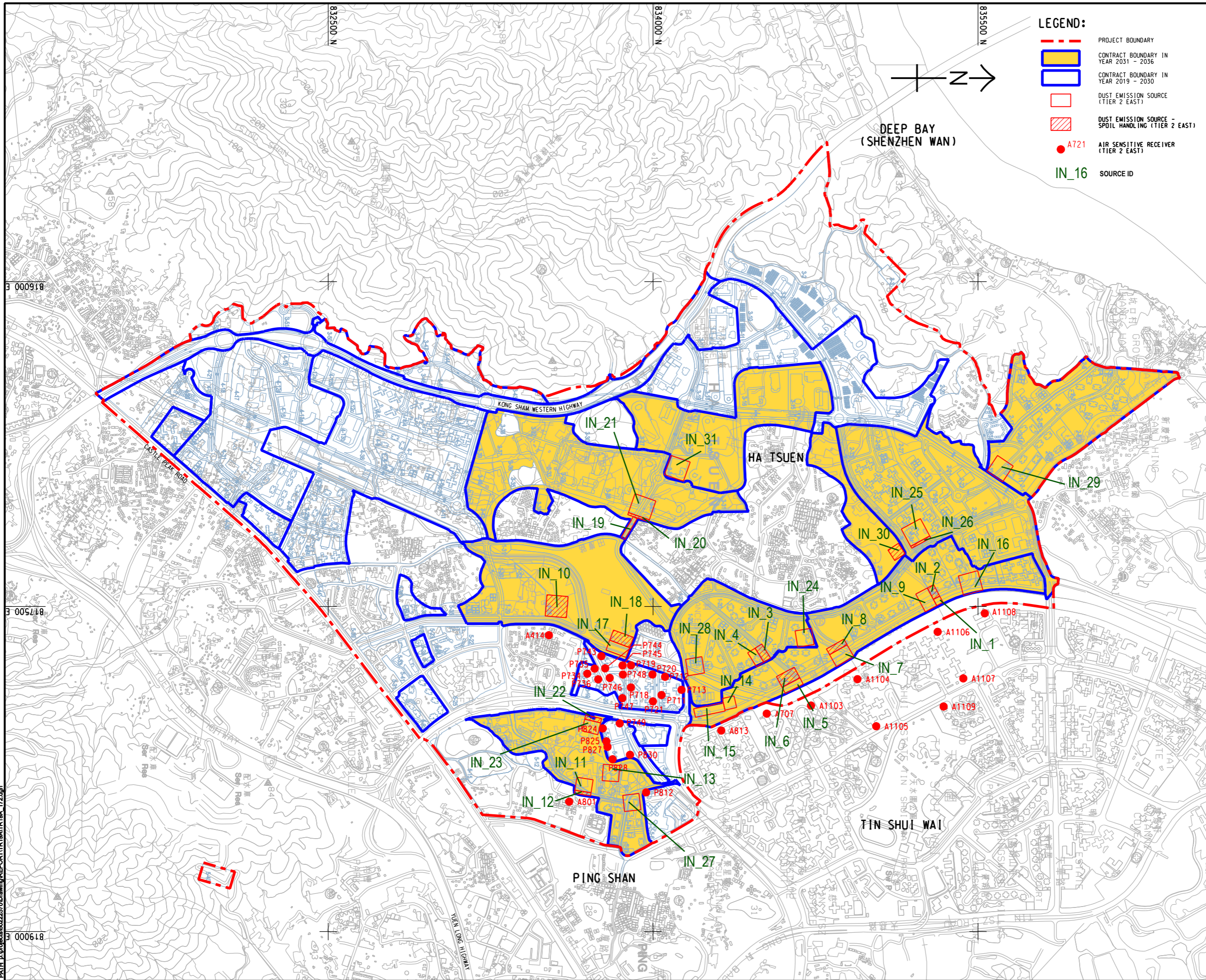
AGREEMENT NO.
 協議編號
 CE2/2011 (CE)

SHEET TITLE
 圖紙名稱
 LOCATION OF CONSTRUCTION
 DUST SOURCE IN YEAR 2031-2036
 (TIER 2 NORTH)



SHEET NUMBER
 圖紙編號
 60222570/TR19A/APPENDIX 3.1.7

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 000918
 005018
 000618



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STATUS
 圖版

SCALE
 比例
 A3 1:16000

DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN
 索引圖

PROJECT NO.
 項目編號
 60222570

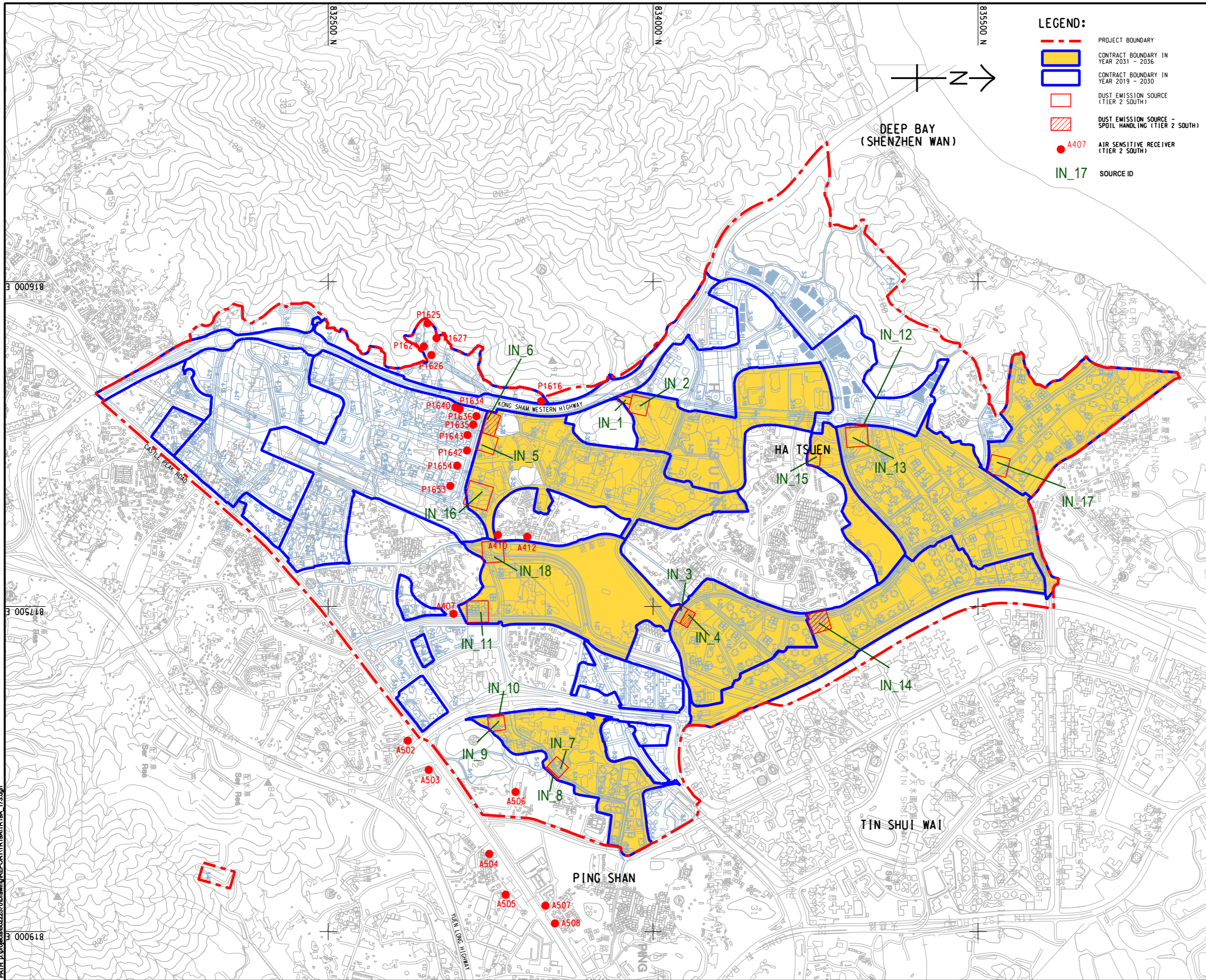
AGREEMENT NO.
 協議編號
 CE2/2011 (CE)

SHEET TITLE
 圖版標題
 LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2031-2036 (TIER 2 EAST)

SHEET NUMBER
 圖版編號
 60222570/TR19A/APPENDIX 3.1.8

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 Pld File by: YANGYU
 PATH: E:\projects\60222570\Drawing\REPORT\TR19A\TR19A_173.dgn
 000918
 005218
 000618



LEGEND:

- PROJECT BOUNDARY
- CONTRACT BOUNDARY IN YEAR 2031 - 2036
- CONTRACT BOUNDARY IN YEAR 2019 - 2030
- DUST EMISSION SOURCE (TIER 2 SOUTH)
- DUST EMISSION SOURCE - SPILL HANDLING (TIER 2 SOUTH)
- A407 AIR SENSITIVE RECEIVER (TIER 2 SOUTH)
- IN_17 SOURCE ID

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STATUS

SCALE
 比例: A3 1 : 16000

DIMENSION UNIT
 尺寸單位: METRES

KEY PLAN
 索引圖

PROJECT NO.
 項目編號: 60222570

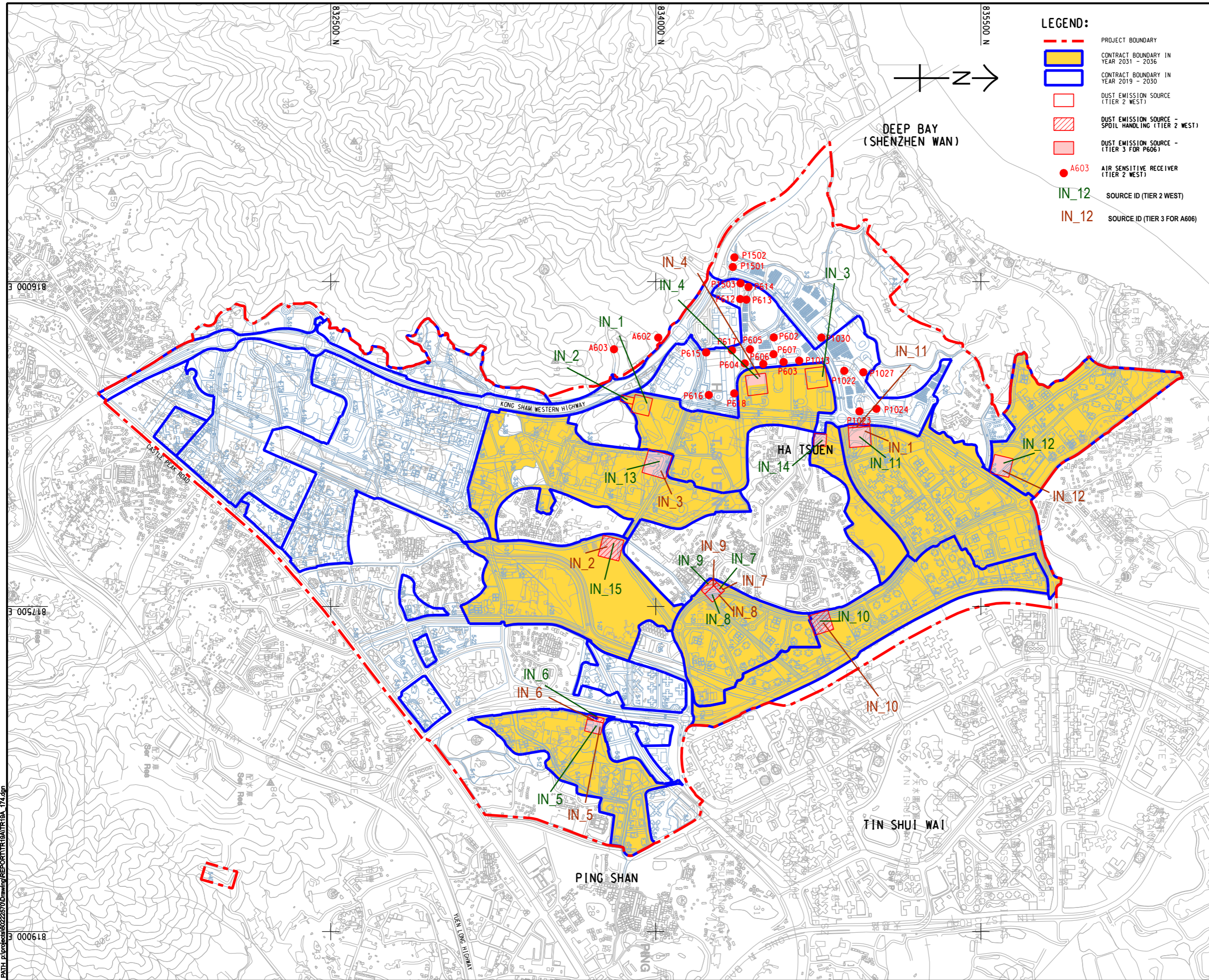
AGREEMENT NO.
 協議編號: CE2/2011 (CE)

SHEET TITLE
 圖名: LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2031-2036 (TIER 2 SOUTH)

SHEET NUMBER
 圖號: 60222570/TR19A/APPENDIX 3.1.9

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 Project Management Initials: 000918
 000918
 000618
 000618



LEGEND:

- PROJECT BOUNDARY
- CONTRACT BOUNDARY IN YEAR 2031 - 2036
- CONTRACT BOUNDARY IN YEAR 2019 - 2030
- DUST EMISSION SOURCE (TIER 2 WEST)
- DUST EMISSION SOURCE - SPOIL HANDLING (TIER 2 WEST)
- DUST EMISSION SOURCE - (TIER 3 FOR P606)
- A603 AIR SENSITIVE RECEIVER (TIER 2 WEST)
- IN_12 SOURCE ID (TIER 2 WEST)
- IN_12 SOURCE ID (TIER 3 FOR A606)

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STATUS
 現狀

SCALE
 比例: A3 1 : 16000

DIMENSION UNIT
 尺寸單位: METRES

KEY PLAN
 索引圖

PROJECT NO.
 項目編號: 60222570

AGREEMENT NO.
 協議編號: CE2/2011 (CE)

SHEET TITLE
 圖名: LOCATION OF CONSTRUCTION DUST SOURCE IN YEAR 2031 - 2036 (TIER 2 WEST AND TIER 3 FOR P606)

SHEET NUMBER
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