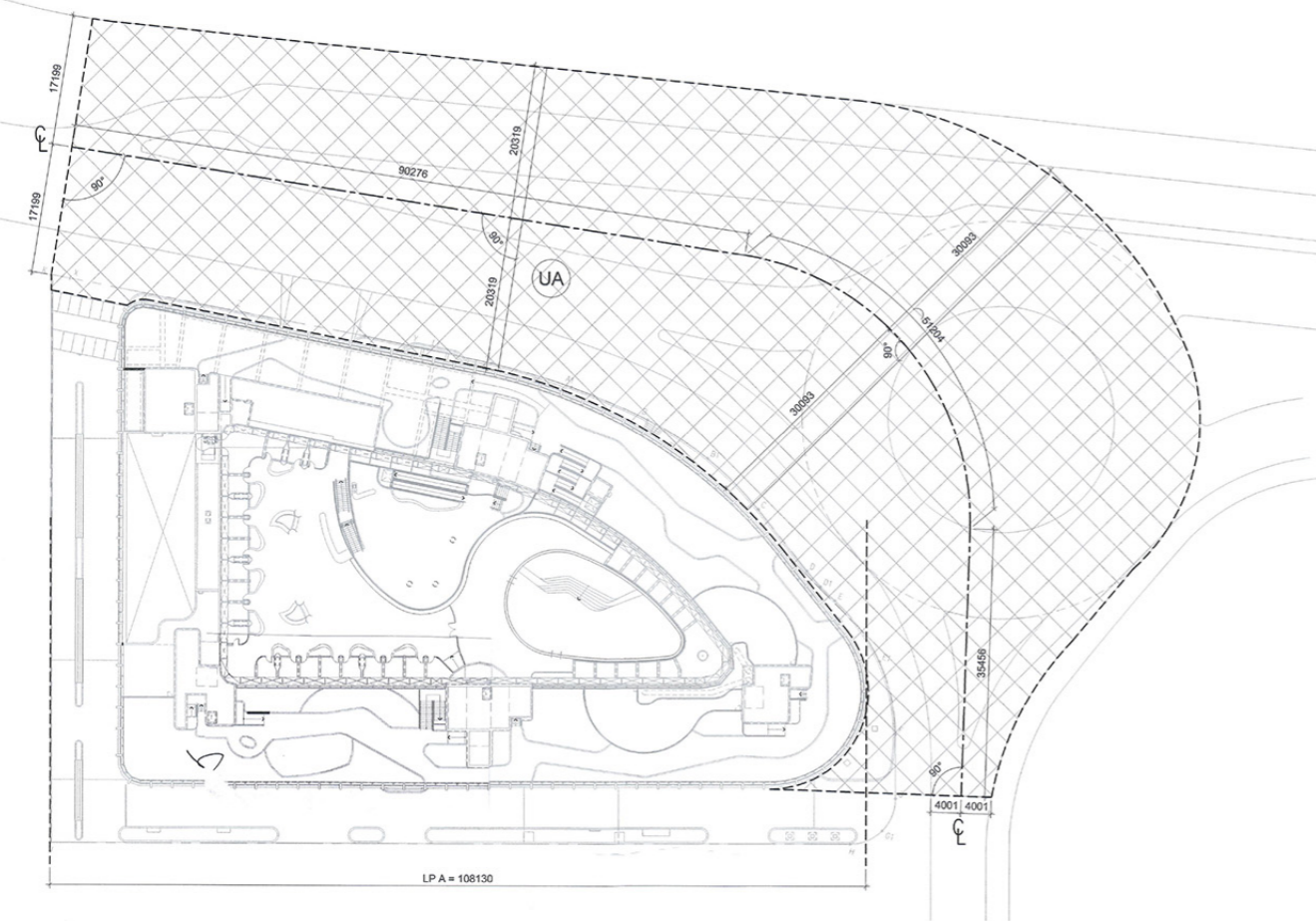


SUSTAINABLE BUILDING DIAGRAM AND CALCULATION



SUSTAINABLE BUILDING DESIGN GUIDELINES (SBDG)

SITE AREA : = 6650 m² < 20000 m²
 MEAN STREET LEV. OF AIRPORT EXPO BOULEVARD LEVEL ZERO : = (5.88 + 5.73) / 2 = 5.805 mPD
 HEIGHT OF BUILDING = 50.20 mPD - 5.805 mPD = 44.395 m

MEAN WIDTH OF STREET CANYON (U)

U A = STREET CANYON AREA / LENGTH
 U A = 7651.142 / (90.276 + 51.204 + 35.456) = 43.242 m

MAX. PERMISSIBLE CONTINUOUS PROJECTED FACADE LENGTH (Lp)

MAX. PERMISSIBLE Lp A = 5 x 43.242 m = 216.210 m > 108.130 m (PROPOSED Lp A) i.e. OK

REFERENCES :
 File B. D. : BD 2/9063/17
 F. S. D. : FP 43/0004/99(C) <51>

JOB TITLE :
 PROPOSED HOTEL DEVELOPMENT ON SITE A1a OF SKYCITY AT HONGKONG INTERNATIONAL AIRPORT LANTAU

GENERAL NOTES :
 1. Do not scale drawings : Figured dimensions are to be followed.
 2. All dimensions are to be checked and verified on site.
 3. All prints, notes, specifications and their copyright are the property of the Architects/Engineers.
 4. This Drawing is not valid for construction or other purposes unless certified by the Architects/Engineers.

NOTES :
 4TH DELETED FROM FLOOR NUMBERING SYSTEM.

REVISIONS	SIGNATURE	DATE
- FIRST SUBMISSION	JIMMY	04/17
- RE-SUBMISSION	JIMMY	06/17
A GENERAL REVISION	JIMMY	11/17
B GENERAL REVISION	JIMMY	06/18
C GENERAL REVISION	JIMMY	11/18
D GENERAL REVISION	JIMMY	03/19
E GENERAL REVISION	JIMMY	11/19

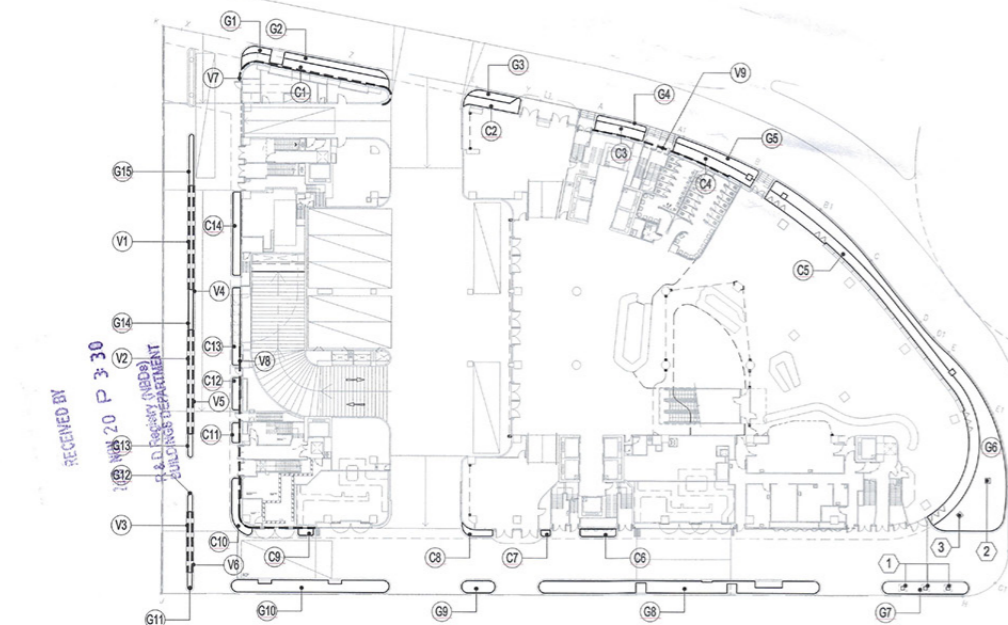
DESIGNED	
DRAWN	JIMMY 03/17
CHECKED	

ARCHITECT/ENGINEER IN CHARGE

 CHAN KA KEUNG
 AUTHORIZED PERSON - ARCHITECT

SITE COVERAGE OF GREENERY AREA DIAGRAM AND CALCULATION

GROUND FLOOR GREENERY AREA DIAGRAM AND CALCULATION



GROUND FLOOR GREENERY CALCULATION

G1 = 3.042 m ²	G8 = 54.844 m ²
G2 = 11.660 m ²	G9 = 6.837 m ²
G3 = 5.332 m ²	G10 = 32.485 m ²
G4 = 4.808 m ²	G11 = 1.336 m ²
G5 = 11.108 m ²	G12 = 1.336 m ²
G6 = 120.673 m ²	G13 = 1.756 m ²
G7 = 18.561 m ²	G14 = 3.132 m ²
	G15 = 3.879 m ²
SUB-TOTAL = 280.789 m ²	
DUCT ① 0.203 x 3 NOS. = 0.609 m ²	
② = 0.456 m ²	
③ = 0.456 m ²	
SUB-TOTAL = 1.521 m ²	
TOTAL = 279.268 m ²	

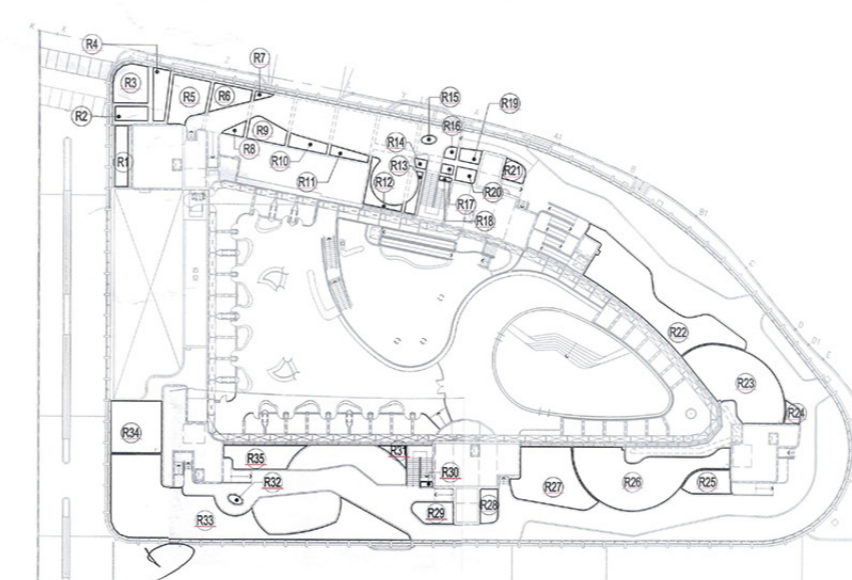
COVERED LANDSCAPE AREA AT GROUND FLOOR

C1 = 23.373 m ² / 2 = 11.687 m ²	
C2 = 9.209 m ² / 2 = 4.605 m ²	
C3 = 8.629 m ² / 2 = 4.315 m ²	
C4 = 14.078 m ² / 2 = 7.039 m ²	
C5 = 70.647 m ² / 2 = 35.324 m ²	
C6 = 4.668 m ² / 2 = 2.334 m ²	
C7 = 0.988 m ² / 2 = 0.494 m ²	
C8 = 3.476 m ² / 2 = 1.738 m ²	
C9 = 1.972 m ² / 2 = 0.986 m ²	
C10 = 8.581 m ² / 2 = 4.291 m ²	
C11 = 2.578 m ² / 2 = 1.289 m ²	
C12 = 4.169 m ² / 2 = 2.085 m ²	
C13 = 10.211 m ² / 2 = 5.106 m ²	
C14 = 10.862 m ² / 2 = 5.431 m ²	
TOTAL = 86.724 m ²	

VERTICAL GREENERY AREA DIAGRAM AND CALCULATION AT GROUND FLOOR

V1 (2.875+2.740) x 13.140 / 2 + 0.585 x 2.875 = 38.573 m ²	
V2 (2.685+2.575) x 10.737 / 2 + 2.988 x 2.575 = 35.932 m ²	
V3 (2.575+2.674) x 5.458 / 2 + 2.543 x 2.725 = 21.255 m ²	
V4 (2.875+2.740) x 13.140 / 2 + 0.585 x 2.875 = 38.573 m ²	
V5 (2.685+2.575) x 10.737 / 2 + 2.988 x 2.575 = 35.932 m ²	
V6 (2.575+2.674) x 5.458 / 2 + 2.543 x 2.725 = 21.255 m ²	
V7 = 97.423 / 2 = 48.712 m ²	
V8 = 82.463 / 2 = 41.232 m ²	
V9 = 79.336 / 2 = 39.668 m ²	
TOTAL = 321.132 m ²	

ROOF FLOOR GREENERY AREA DIAGRAM AND CALCULATION



ROOF FLOOR GREENERY CALCULATION

R1 = 14.087 m ²	R15 = 1.692 m ²	R29 = 14.240 m ²
R2 = 8.243 m ²	R16 = 2.276 m ²	R30 = 0.979 m ²
R3 = 21.977 m ²	R17 = 1.896 m ²	R31 = 4.686 m ²
R4 = 12.919 m ²	R18 = 0.793 m ²	R32 = 1.691 m ²
R5 = 27.250 m ²	R19 = 4.789 m ²	R33 = 174.67 m ²
R6 = 13.917 m ²	R20 = 4.743 m ²	R34 = 45.625 m ²
R7 = 1.821 m ²	R21 = 7.024 m ²	R35 = 27.644 m ²
R8 = 3.611 m ²	R22 = 103.768 m ²	
R9 = 13.932 m ²	R23 = 86.266 m ²	
R10 = 8.011 m ²	R24 = 4.691 m ²	
R11 = 5.694 m ²	R25 = 17.573 m ²	
R12 = 7.670 m ²	R26 = 103.100 m ²	
R13 = 4.322 m ²	R27 = 63.484 m ²	
R14 = 1.809 m ²	R28 = 10.135 m ²	
TOTAL = 818.345 m ²		

SITE COVERAGE OF GREENERY AREA CALCULATION UNDER BUILDING DEPARTMENT:

SITE AREA	= 6650 m ² < 20000 m ²
TOTAL GREENERY AREA REQUIRE AT PEDESTRIAN ZONE	= 6650 m ² x 20% = 1330 m ²
TOTAL GREENERY AREA REQUIRED AT PEDESTRIAN ZONE	= 6650 m ² x 10% = 665 m ²
PERMITTED PRIMARY ZONE GREENERY AREA	= 1330 m ² x 30% = 399 m ² (UNDER PNAP 152 APPENDIX D)
ACTUAL PRIMARY ZONE GREENERY AREA	= COVERED LANDSCAPE AREA AT GROUND FLOOR + VERTICAL GREENERY AT GROUND FLOOR = 86.724 m ² + 321.132 m ² = 407.856 m ² > 399 m ² (30%)
□ USE PERMITTED PRIMARY ZONE GREENERY AREA = 399 m ² FOR GREENERY AREA CALCULATION. (UNDER PNAP 152 APPENDIX D)	
TOTAL GREENERY PROVIDED AT GROUND FLOOR	= 279.268 m ² + 399.000 m ² (UNDER PNAP 152 APPENDIX D) = 678.268 m ²
TOTAL GREENERY PROVIDED AT ROOF FLOOR	= 818.345 m ²
ACTUAL GREENERY AREA PROVIDED	= 678.268 m ² (GROUND FLOOR) + 818.345 m ² (ROOF FLOOR) = 1496.613 m ² > 1330 m ² (20%)
ACTUAL GREENERY AREA AT PEDESTRIAN ZONE PROVIDED	= 678.268 m ² > 665 m ² (10%)

Note: This plan has been processed on a curtailed check basis under the centralized processing system as promulgated in PNAP ADM-19. The duties of the authorized person, registered structural engineer and/or registered geotechnical engineer concerned as specified under section 4(3)(b) and the provision of section 14(2)(c) of the Building Ordinance are of particular relevance in this regard.

Plan Approved

 WONG Wai-man Emily
 Senior Building Surveyor
 for BUILDING AUTHORITY
 12 DEC 2019

FOR BUILDING DEPARTMENT
 AMENDED PLAN

20 NOV 2019

Statement II : The works shown on these plans are Type II works (Building) in respect of which consent is applied for the purpose of Fast Track consent application under Regulation 33 of the Building (Administration) Regulations.

百利保發展顧問有限公司
 Paliburg Development Consultants Limited

DRG. TITLE : (BUILDING PLAN)

SBD (1)

SCALE : 1:500	File Name (for CAD drawing) 2-25
JOB NO : 17001	DRG.NO. : 2-25