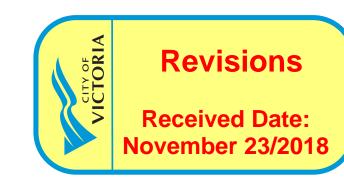
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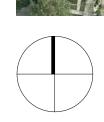


# COOK & PENDERGAST CORNER PERSPECTIVE

A0.00	Cover Sheet	A2.01	Ground Floor	A9.01	Materials
A1.00	Survey, Existing Site Plan &	A2.02	Level 2	L1.01	Landscape Materials Plan
	Average Grade	A2.03	Level 3	L1.02	Tree Retention and Removal
A1.01	Code Analysis	A2.04	Level 4		Plan
A1.02	Limiting Distance	A2.05	Roof Level	L1.03	Stormwater Management Plan
A1.03	Overall Site Plan	A3.00	Elevations	L1.04	Planting Plan & Plant List
A1.04	Shadow Studies - Equinox	A3.01	Context Elevations	L1.05	Roof & Rooftop Landscape &
A1.05	Shadow Studies - Summer	A4.00	Building Sections		Planting Plan
A1.06	Shadow Studies - Winter	A4.01	Context Sections	C1.00	Preliminary Site Plan

Perspectives





# SITE CONTEXT PLAN

#### **APPLICANT** PROJECT TEAM

**ARCHITECT** ARAGON PROPERTIES LTD. 201-1628 WEST 1st AVENUE VANCOUVER BC V6J 1G1 VICTORIA BC V8V 3J6 604.732.6170 250.590.3223

Parking Level

CONTACT: LENNY MOY lmoy@aragon.ca LUKE RAMSEY Iramsey@aragon.ca

Zone (existing)

Site area (m²)

Total floor area (m<sup>2</sup>)

Floor space ratio

Site coverage (%)

Open site space (%)

Height of building (m)

Parking stalls (number) on site

Side yard (indicate which side)

Side yard (indicate which side)

Building Setbacks (m) \*

Combined side yards

Total number of units

**Residential Use Details** 

Unit type, e.g., 1 bedroom

Minimum unit floor area (m²)

Total residential floor area (m²)

Ground-orientated units

Bicycle parking number (Class 1 and Class 2)

Number of storeys

Front yard

Rear yard

Proposed zone or site specific zone

If unsure, state "new zone"

Commercial floor area (m²)

CASCADIA ARCHITECTS 1060 MEARES STREET

PROJECT INFORMATION TABLE

CR-3M, R-K

**NEW ZONE** 

535 m<sup>2</sup>

65.7%

34.1%

16.15 m

4.18 m

4.00 m

66 m<sup>2</sup>

5160 m<sup>2</sup>

2875 m<sup>2</sup> (DPA 5 = 1099 m<sup>2</sup>, DPA 16 = 1776 m<sup>2</sup>)

6299  $m^2$  (DPA 5 = 2747  $m^2$ , DPA 16 = 3552  $m^2$ )

2.19:1 (DPA 5 = 2.5:1, DPA 16 = 2:1)

63 CLASS 1, 12 CLASS 2

3.54 m (WEST P.L.)

0.46 m (COOK STREET)

11 1BR, 28 2BR, 9 3BR

\* MEASURED TO BUILDING FACE

3.18 m (PENDERGAST STREET)

CONTACT: PETER JOHANNKNECHT peter@cascadia architects.ca rjackson@fastepp.com GREGORY DAMANT greg@cascadiaarchitects.ca

# STUCTURAL ENGINEER

A9.00

CONTACT:

FAST + EPP 201-1672 WEST 1st AVENUE SUITE 202, 31 BASTION SQUARE VANCOUVER BC 604.731.7412

CONTACT: **ROBERT JACKSON** COLLIN CRONKHITE

# MECHANICAL ENGINEER

WILLIAMS ENGINEERING V6J 1G1 VICTORIA BC V8W 1J1 778.406.0023

## **ELECTRICAL ENGINEER** SMITH + ANDERSEN

338-6450 ROBERTS STREET **BURNABY BC** V5G 4E1 604.294.8414

#### CONTACT: **RON SHARMA** ccronkhite@williamsengineering.com Ron.Sharma@smithandandersen.com rtuck@jeanderson.com

### **CIVIL ENGINEER**

J.E. ANDERSON & ASSOCIATES WATT CONSULTING GROUP 4212 GLANFORD AVENUE VICTORIA BC V8Z 4B7 250.727.2214

# CONTACT: **ROSS TUCK**

#### TRAFFIC CONSULTANT

501-740 HILLSIDE AVENUE VICTORIA BC V8T 1Z4 250.388.9877

#### CONTACT: DANIEL CASEY dcasey@wattconsultinggroup.com

### LANDSCAPE ARCHITECT

MURDOCH de GREEF INC. 200-524 CULDUTHEL ROAD VICTORIA BC V8Z 1G1 250.412.2891

CONTACT:
SCOTT MURDOCH
scott@mdidesign.com

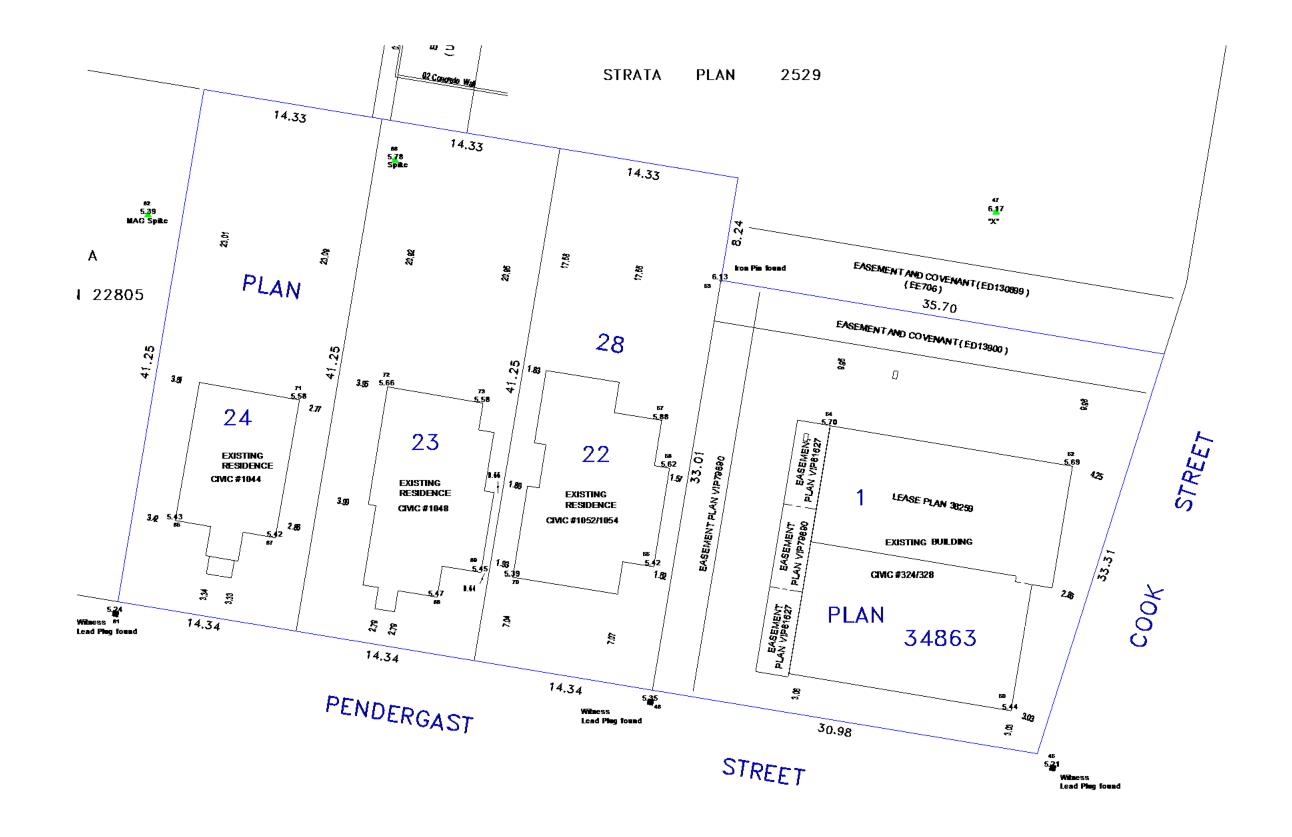
### **ARBORIST**

TALBOT MACKENZIE & ASSOCIATES **BOX 48153 RPO UPTOWN** VICTORIA BC V8Z 7H6 250.479.8733

CONTACT: **GRAHAM MACKENZIE** tmtreehelp@gmail.com







Scale 1250 0 2.5 5 10 15 20 25

NOTE: ELEVATIONS ARE TO GEODETIC DATUM

THE DECIMAL POINT OF THE ELEVATION
DENOTES THE LOCATION OF THE SHOT
TAKEN UNLESS OTHERWISE NOTED

BUILDING SETBACKS ARE CALCULATED
TO THE EXTERIOR OF SIDING
PROPERTY BOUNDARIES HAVE BEEN CALCULATED
FROM CURRENT SURVEY AND EXISTING SURVEY RECORDS

.D2000\_SERVER\30105\_SITE.DWG DBL

### J.E.Anderson and Associates

SURVEYORS ENGINEERS
VICTORIA NANAIMO

SITE PLAN

AT 1044-1054 PENDERGAST STREET AND 324/328 COOK STREET

LEGAL: LOT 1, PLAN 34863 AND LOTS
22. 23 AND 24, PLAN 28, ALL OF
FAIRFIELD FARM ESTATE, VICTORIA CITY

DRAWN BY: DEROJECT SURVENDIRARRIER

SCALE: 1:250 DATE: DEC. 20, 2016.

CLIENT:

DUCKETT DEVELOPMENTS INC.

Survey Plan
1:300

#### **AVERAGE GRADE CALCULATIONS**

GRADE POINTS:

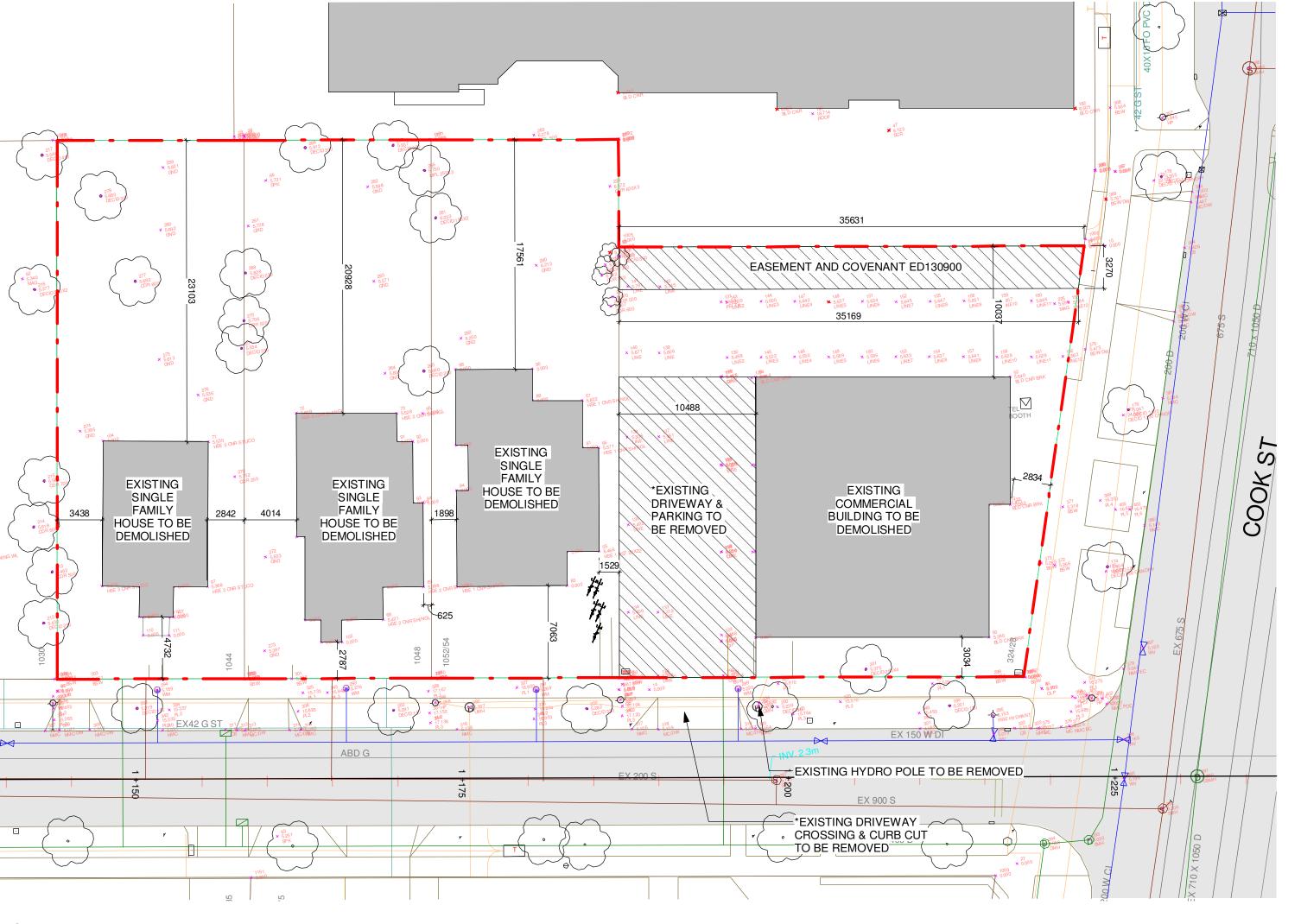
A: B: C: D: E: F:	5.66 5.70 5.70 6.22 6.00 5.77	R: S: T: U: V: W:	5.37 5.32 5.47 5.58 5.40 5.39
G:	5.91	X:	5.65
H:	5.56	Y:	5.54
J:	5.43	Z:	5.58
K:	5.43	AA:	5.56
L:	5.40	BB:	5.65
M:	5.59	CC:	5.67
N:	5.40		
P:	5.37		
Q:	5.40		

# GRADE POINTS:

B:	((5.66+5.70)÷2)	Х	07.9	=44.87
-C:	((5.70+5.70)÷2)	Χ	04.7	=26.79
:-D:	((5.70+6.22)÷2)	Χ	25.9	=154.36
)-E:	((6.22+6.00)÷2)	Χ	07.5	=45.83
-F:	$((6.00+5.77) \div 2)$	Χ	26.6	=156.54
-G:	$((5.77+5.91) \div 2)$	Χ	04.9	=28.62
ì-H:	$((5.91+5.56) \div 2)$	Χ	08.5	=48.75
l-J:	$((5.56+5.43) \div 2)$	Χ	02.1	=11.54
-K:	$((5.43+5.43)\div2)$	Χ	02.1	=11.40
(-L:	$((5.43+5.40) \div 2)$	Χ	02.7	=14.62
-M:	$((5.40+5.59) \div 2)$	Χ	09.7	=53.30
1-N:	$((5.59+5.40) \div 2)$	Χ	05.9	=32.40
l-P:	$((5.40+5.37) \div 2)$	Χ	03.5	=18.85
'-Q:	$((5.37+5.40) \div 2)$	Χ	03.5	=18.85
)-R:	$((5.40+5.37) \div 2)$	Χ	13.2	=71.80
R-S:	$((5.37+5.32) \div 2)$	Χ	12.0	=64.14
5-T:	$((5.32+5.47) \div 2)$	Χ	09.7	=52.33
-U:	$((5.47+5.58) \div 2)$	Χ	05.3	=29.28
I-V:	$((5.58+5.40) \div 2)$	Χ	07.0	=38.43
′-W:	$((5.40+5.39) \div 2)$	Χ	28.6	=154.30
V-X:	$((5.39+5.65) \div 2)$	Χ	15.0	=82.80
(-Y:	$((5.65+5.54) \div 2)$	Χ	03.8	=21.26
'-Z:	$((5.54+5.58) \div 2)$	Χ	07.3	=40.59
-AA:	$((5.58+5.56) \div 2)$	Χ	01.5	=08.36
A-BB:	$((5.56+5.65) \div 2)$	Χ	03.5	=19.62
B:CC:	$((5.65+5.67) \div 2)$	Χ	01.5	=08.49
C-A:	((5.67+5.66)÷2)	X	03.3	=18.70

227.2 1276.82

AVERAGE GRADE = 1276.82÷227.2 = **5.62** 

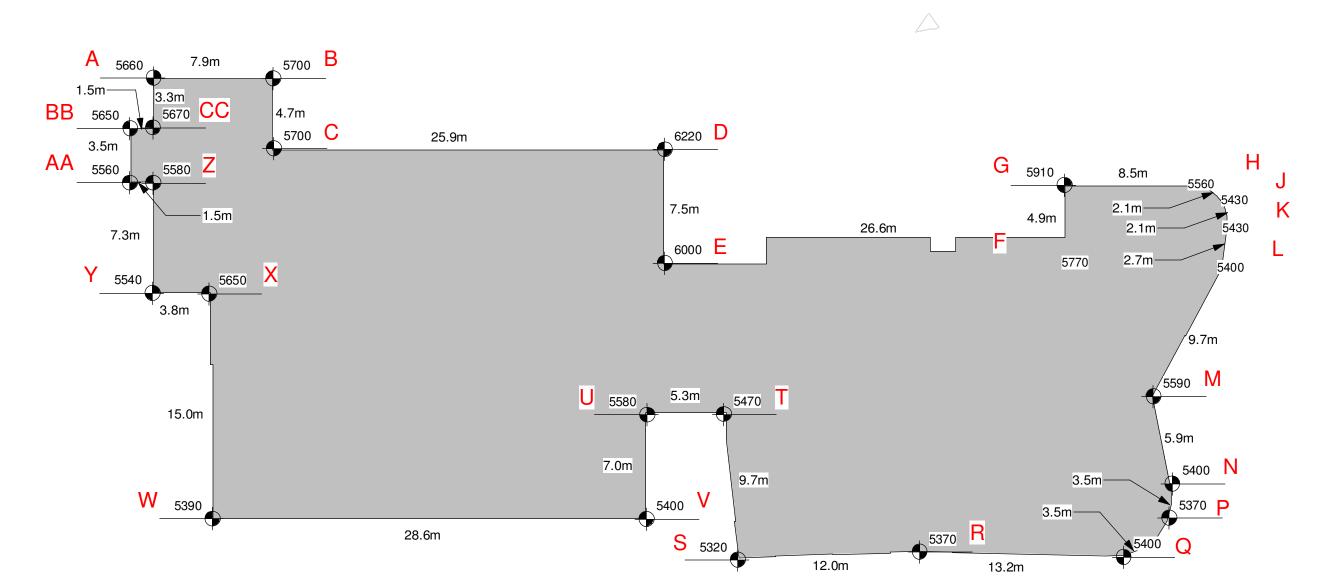


NOTE:
REFER TO LANDSCAPE PLAN FOR TREE
INFORMATION INCLUDING LOCATION OF
TREES TO BE REMOVED

PLAN FOR TREE
NG LOCATION OF
D

2 Existing Site Plan

1:250



Average Grade Plan

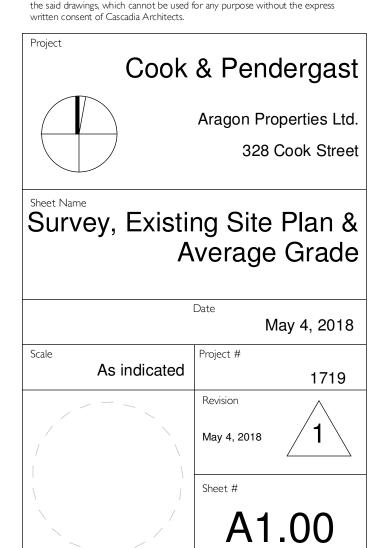
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	Revision I	May 4, 2018
	Re-zoning & Development Permit	February 27, 2018
NO.	DESCRIPTION	DATE

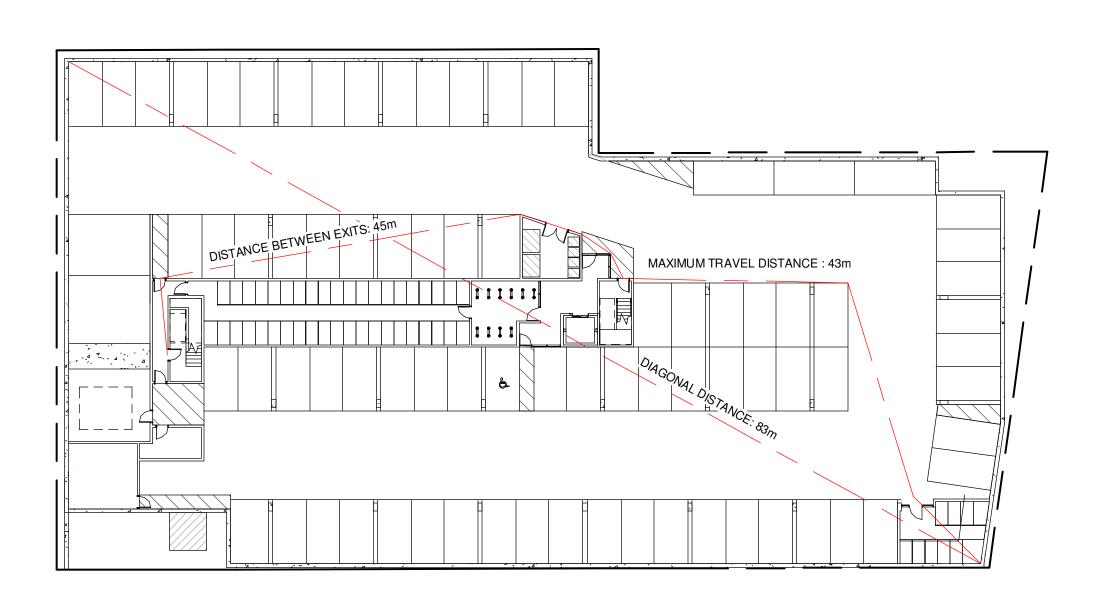


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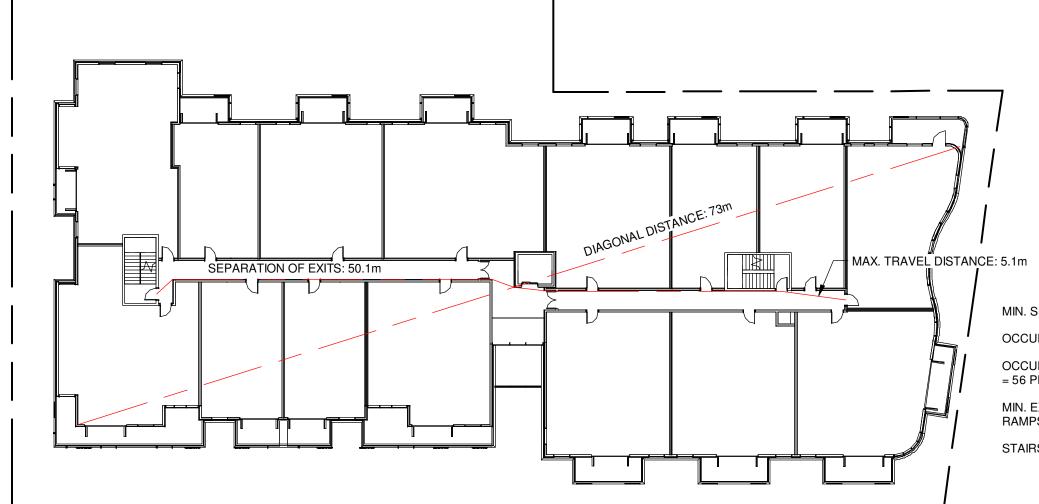
MIN. SEPARATION BETWEEN EXITS: 41.5 m

OCCUPANCY: GROUP F, DIVISION 3

OCCUPANT LOAD: 2683 m<sup>2</sup> / 46 m<sup>2</sup> PER PERSON = 59 PERSONS

MIN. EXIT WIDTH
RAMPS, CORRIDORS & PASSAGEWAYS : 6.1mm/PERSON x 59 = 360mm

STAIRS : 8mm/PERSON X 59 = 472mm



MIN. SEPARATION BETWEEN EXITS: 9 m

OCCUPANCY: GROUP C, RESIDENTIAL

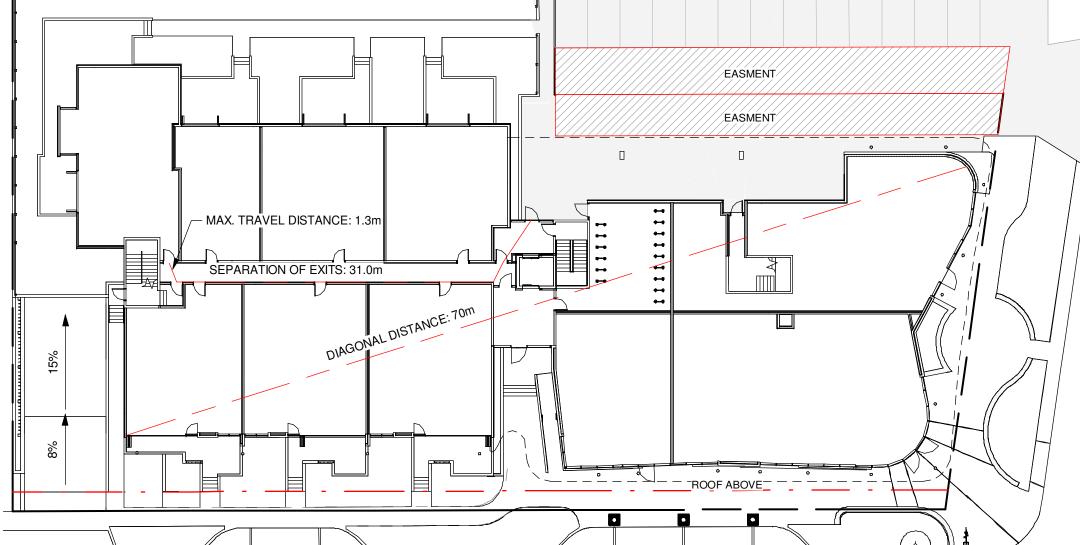
OCCUPANT LOAD: 28 SLEEPING ROOMS X 2 PERSONS PER ROOM = 56 PERSONS

MIN. EXIT WIDTH

RAMPS, CORRIDORS & PASSAGEWAYS : 6.1mm/PERSON x 56 = 342mm

STAIRS: 8mm/PERSON X 56 = 448mm

# Parking Level - Code Plan 1:300



#### RESIDENTIAL AREA

MIN. SEPARATION BETWEEN EXITS: 9 m

OCCUPANCY: GROUP C, RESIDENTIAL

OCCUPANT LOAD: 14 SLEEPING ROOMS X 2 PERSONS PER ROOM = 28 PERSONS

MIN. EXIT WIDTH RAMPS, CORRIDORS & PASSAGEWAYS : 6.1mm/PERSON x 28 = 171mm

STAIRS: 8mm/PERSON X 28 = 224mm

#### COMMERCIAL AREA

OCCUPANCY: GROUP E

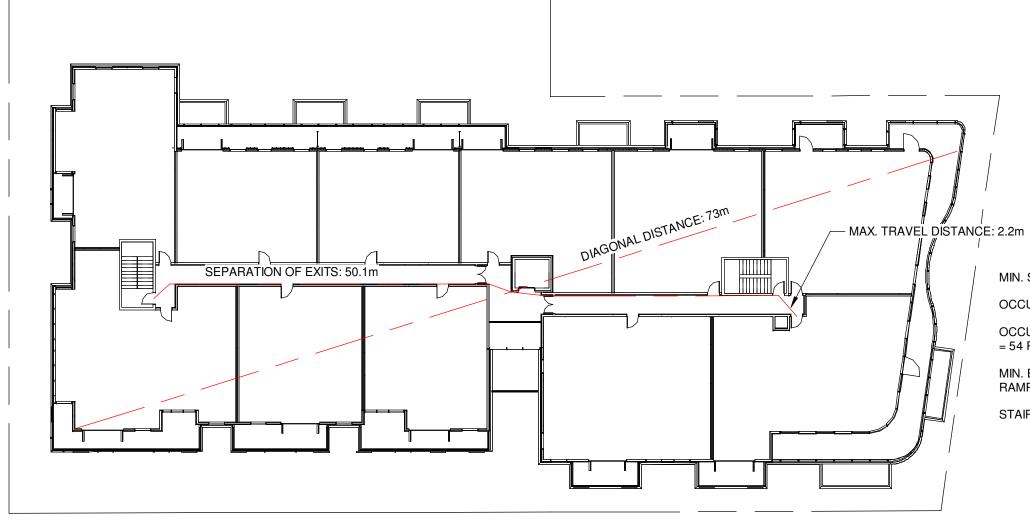
OCCUPANT LOAD: 544 m<sup>2</sup>/3.7 m<sup>2</sup> PER PERSON = 147 PERSONS
MIN\_EXIT\_WIDTH

RAMPS, CORRIDORS & PASSAGEWAYS : 6.1mm/PERSON x 147 = 897mm

STAIRS: 8mm/PERSON X 147 = 1176mm

# Level 3 - Code Plan 1:300

5 Level 4 - Code Plan



MIN. SEPARATION BETWEEN EXITS: 9 m
OCCUPANCY: GROUP C, RESIDENTIAL

OCCUPANT LOAD: 27 SLEEPING ROOMS X 2 PERSONS PER ROOM

MINI FYT MIDTH

MIN. EXIT WIDTH RAMPS, CORRIDORS & PASSAGEWAYS : 6.1mm/PERSON x 54 = 329mm

STAIRS : 8mm/PERSON X 54 = 432mm

T.B.D.

DISABILITIES

**BC BUILDING CODE 2012** 

3.1.2.1 OCCUPANCY CLASSIFICATION:

GROUP F, DIVISION 3: PARKING LEVEL

3.2.2 BUILDING SIZE AND CONSTRUCTION

3.2.2.50 GROUP C, UP TO 6 STORIES, SPRINKLERED

3.4.2.1 MINIMUM NUMBER OF EXITS: 2 PER FLOOR

3.4.2.5 DISTANCE BETWEEN EXITS: SEE A1.01

MAX TRAVEL PERMITTED (RESIDENTIAL) : 30m MAX TRAVEL PERMITTED (F3 USE) : 45m

NUMBER OF REQUIRED WASHROOMS: T.B.D.

3.8 REQUIREMENTS FOR PERSONS WITH

3.1.3 SEPARATION OF USES

3.1.17 OCCUPANT LOAD

SEE A1.01

1750 m²

3.4 EXITS

3.2 FIRE SAFETY

BUILDING AREA:

SPRINKLERED: YES

3.4.2.5 LOCATION OF EXITS

3.7 HEALTH REQUIREMENTS

F-C TO C REQUIRES 1HR F.R.R. C TO E REQUIRES A 2 HR F.R.R.

GROUP C RESIDENTIAL OCCUPANCY: LEVEL 1-4

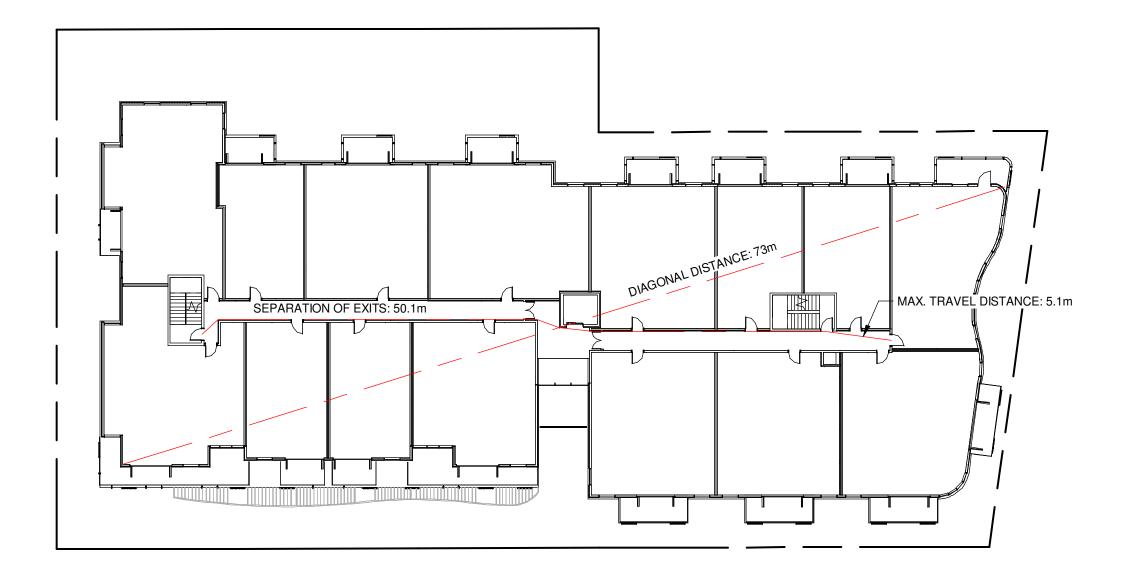
3.1 GENERAL

Re-zoning & Development Permit February 27, 2018

NO. DESCRIPTION DATE



3 Level 2 - Code Plan



MIN. SEPARATION BETWEEN EXITS: 9 m

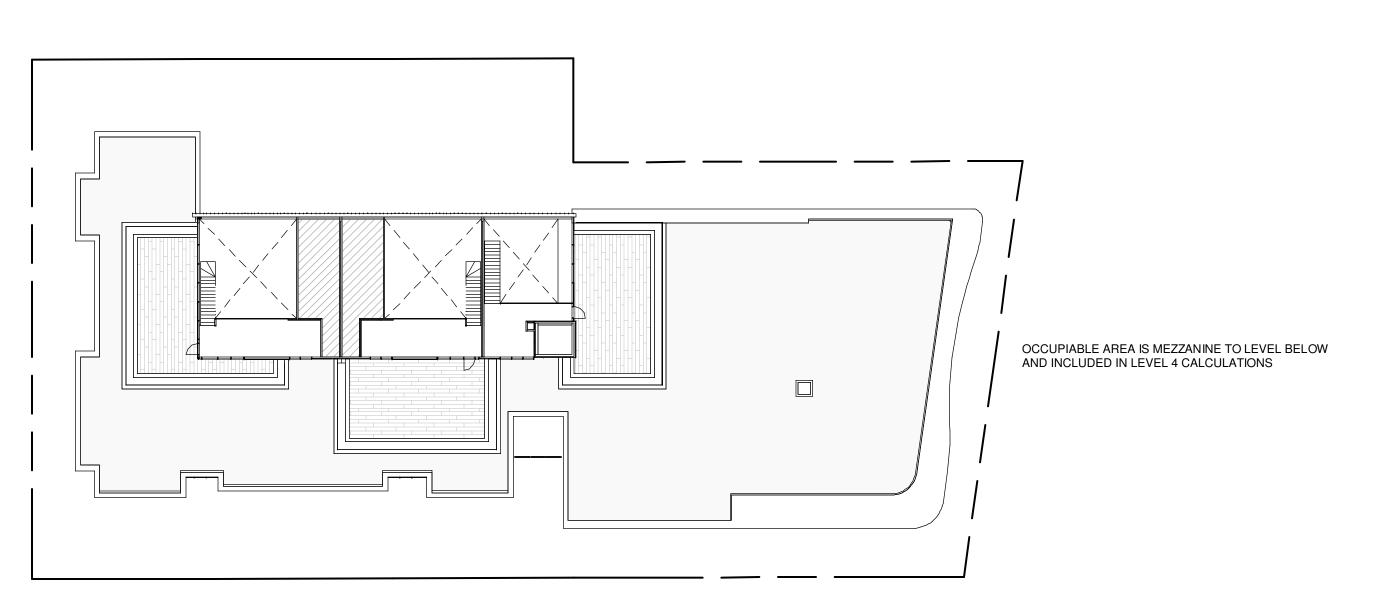
OCCUPANCY: GROUP C, RESIDENTIAL

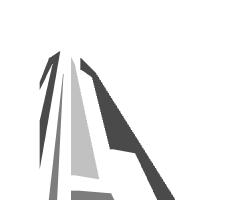
OCCUPANT LOAD: 28 SLEEPING ROOMS X 2 PERSONS PER ROOM = 56 PERSONS

IIN. EXIT WIDTH

RAMPS, CORRIDORS & PASSAGEWAYS : 6.1mm/PERSON x 56 = 342mm STAIRS : 8mm/PERSON X 56 = 448mm

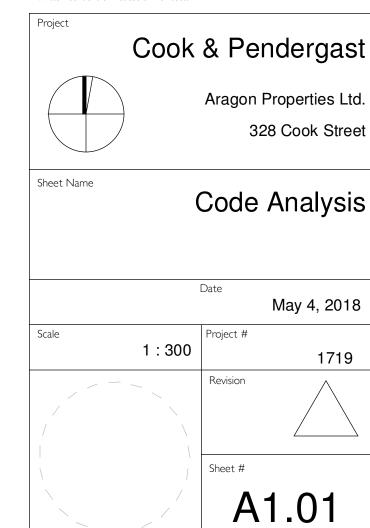






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2018-05-09 8:32:29 AM

#### **GROUP E OCCUPANCY**

LIMITING DISTANCE: 16.2 m EXPOSING BUILDING FACE: 200+ m<sup>2</sup> MAXIMUM AREA OF UNPROTECTED OPENINGS: 100%

#### **GROUP C OCCUPANCY**

LIMITING DISTANCE: 16.2 m EXPOSING BUILDING FACE: MAXIMUM AREA OF UNPROTECTED OPENINGS: 100%



East Elevation Limiting Distance

1:300

#### **GROUP E OCCUPANCY**

LIMITING DISTANCE: 4.7 m EXPOSING BUILDING FACE: 73 m² MAXIMUM AREA OF UNPROTECTED OPENINGS: PROPOSED AREA OF UNPROTECTED OPENINGS: PROPOSED PERCENTAGE OF UNPROTECTED OPENINGS: 20.5%

#### **GROUP C OCCUPANCY**

SEE TABLE



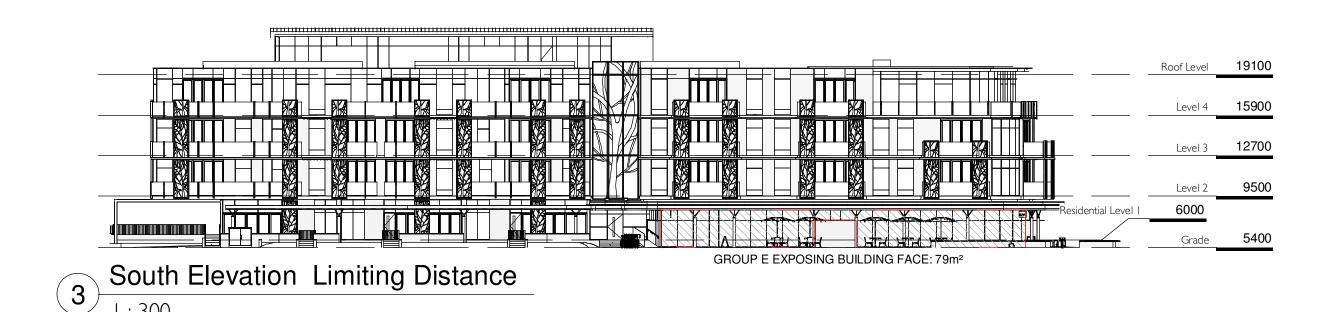
# North Elevation Limiting Distance 1:300

#### **GROUP E OCCUPANCY**

LIMITING DISTANCE: 10.9 m EXPOSING BUILDING FACE: 79 m² MAXIMUM AREA OF UNPROTECTED OPENINGS: 100%

#### **GROUP C OCCUPANCY**

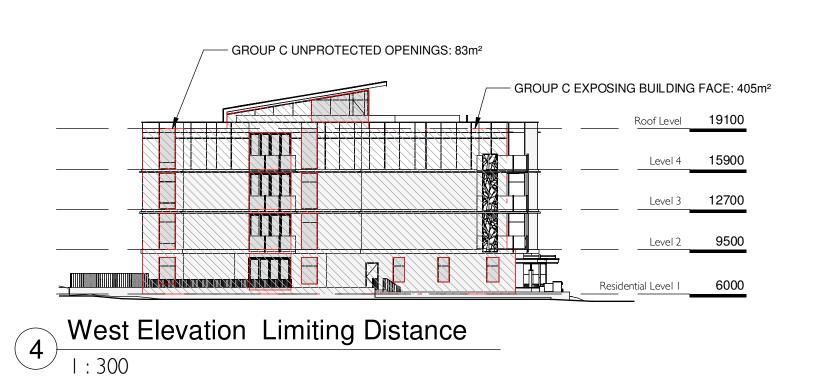
LIMITING DISTANCE: 10.9 m EXPOSING BUILDING FACE: 150+ m<sup>2</sup> MAXIMUM AREA OF UNPROTECTED OPENINGS: 100%



#### **GROUP E OCCUPANCY**

#### **GROUP C OCCUPANCY**

LIMITING DISTANCE:	5 m
EXPOSING BUILDING FACE:	405 m <sup>2</sup>
MAXIMUM AREA OF UNPROTECTED OPENINGS:	40%
PROPOSED AREA OF UNPROTECTED OPENINGS:	83 m²
PROPOSED PERCENTAGE OF UNPROTECTED OPENINGS:	20.5%



#### NORTH ELEVEATION - GROUP C OCCUPANCY

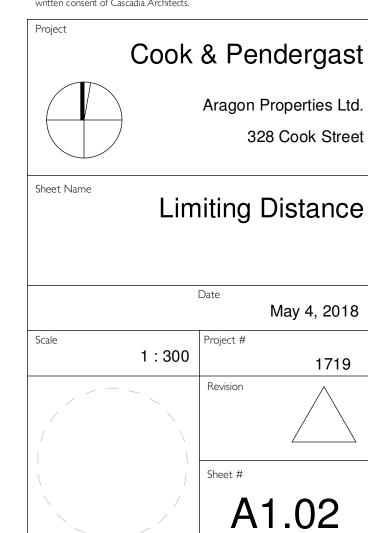
BUILDING COMPARTMENT	LIMITING DISTANCE	AREA OF EXPOSING FACE	MAXIMUM % OPENING	PROPOSED AREA OF OPENING	PROPOSED % OPENING
1	4.1 m	45 m²	60%	23 m²	51%
2	4.1 m	35 m²	71%	18 m²	51%
3	4.1 m	35 m²	71%	21 m²	60%
4	12.2 m	41 m²	100%	41 m²	63%
5	5.8 m	28 m²	100%	11 m²	39%
6	4.1 m	27 m²	78%	13 m²	48%
7	4.1 m	20 m²	100%	14 m²	70%
8	4.1 m	20 m²	100%	14 m²	70%
9	4.1 m	29 m²	78%	18 m²	62%
10	10.5 m	84 m²	100%	51 m²	61%
11	5.8 m	28 m²	100%	11 m²	39%
12	4.1 m	27 m²	78%	13 m²	48%
13	4.1 m	20 m²	100%	14 m²	70%
14	4.1 m	20 m²	100%	14 m²	70%
15	4.1 m	29 m²	78%	18 m²	62%
16	10.5 m	84 m²	100%	51 m²	61%
17	5.8 m	28 m²	100%	11 m²	39%
18	8.4 m	38 m²	100%	8 m²	21%
19	10.5 m	84 m²	100%	42 m²	50%
20	5.8 m	31 m²	100%	8 m²	26%



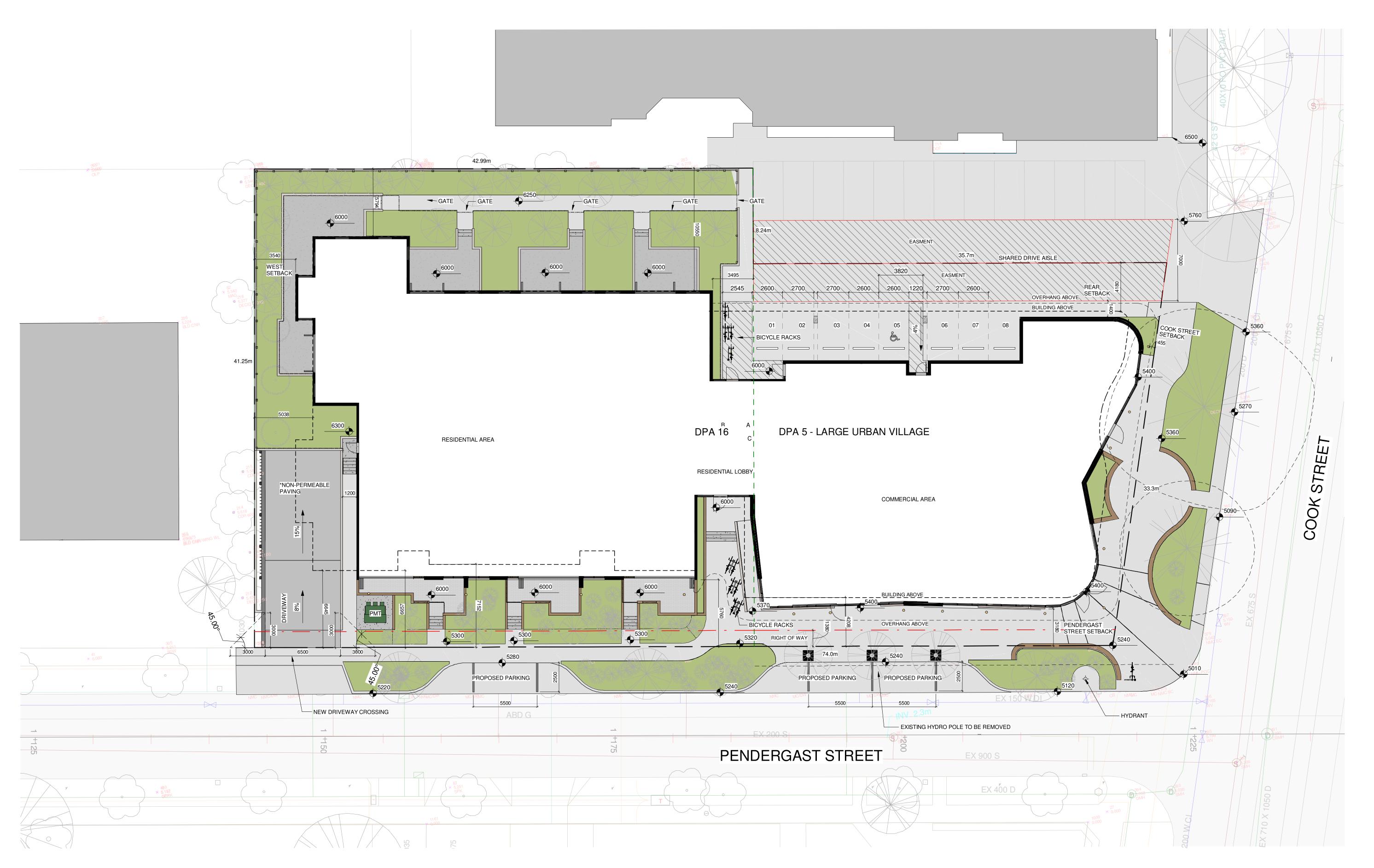


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2018-05-09 8:32:43 AM



NOTE:
REFER TO LANDSCAPE PLAN FOR TREE
INFORMATION INCLUDING LOCATION OF
TREES TO BE REMOVED

Overall Site Plan

1: 150





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	 Date	
		May 4, 2018
4 - 450	Project #	

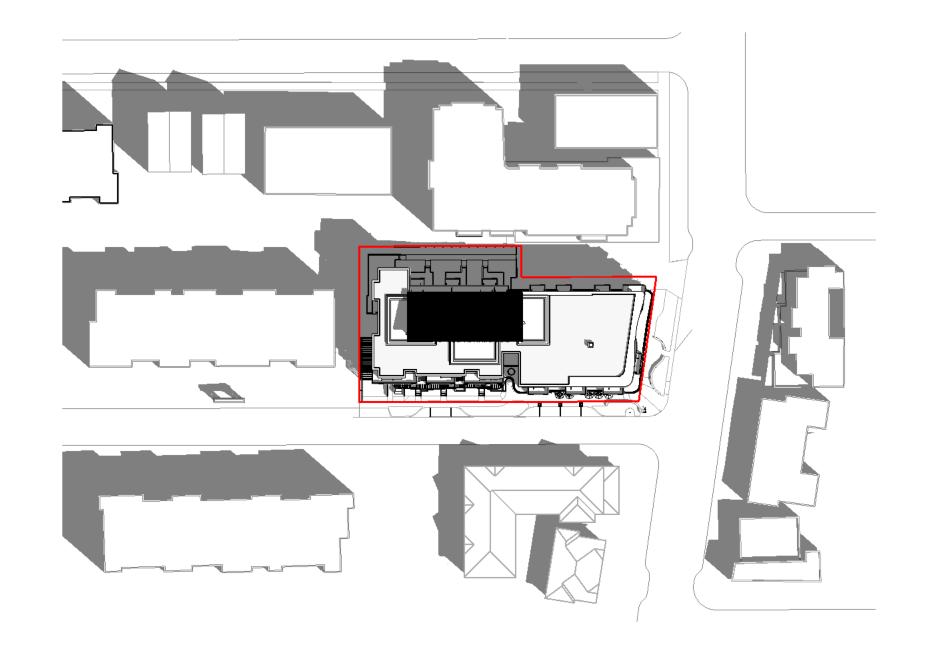
1:150 Project #
1 :150
Revision

A1.03

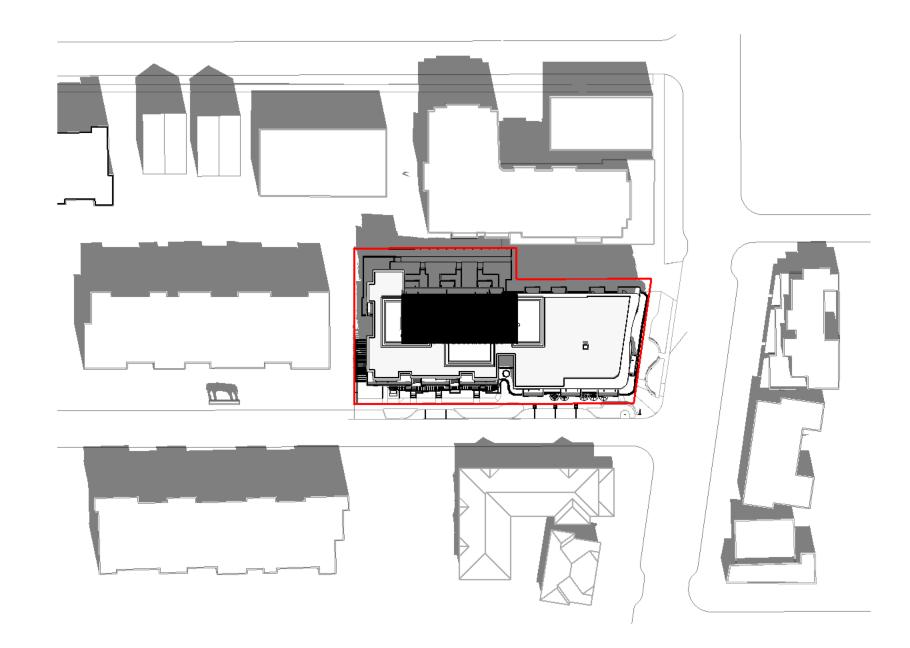
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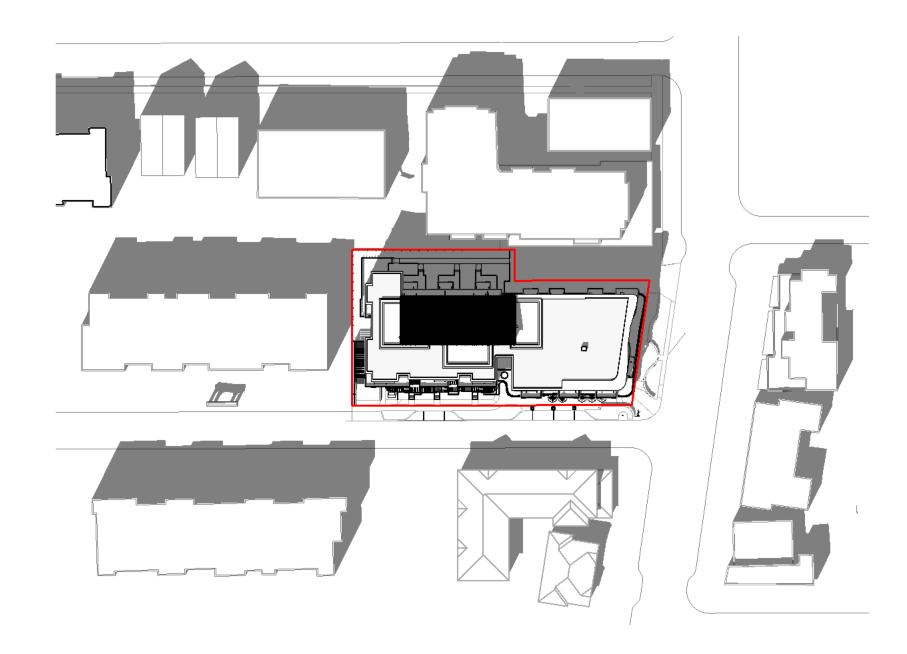
Shadow - Equinox - 8 AM



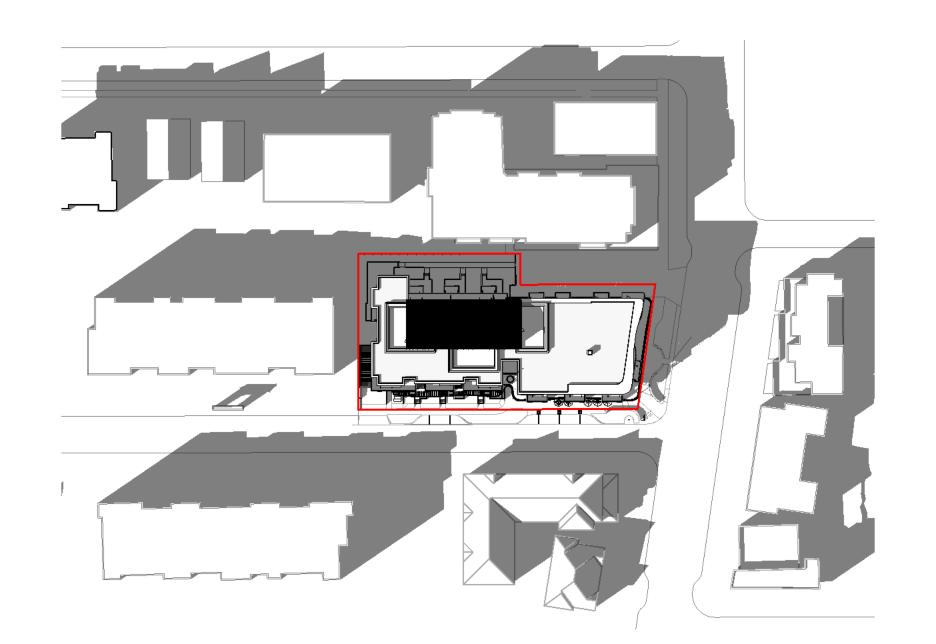
Shadow - Equinox - 10 AM



Shadow - Equinox - 12 PM



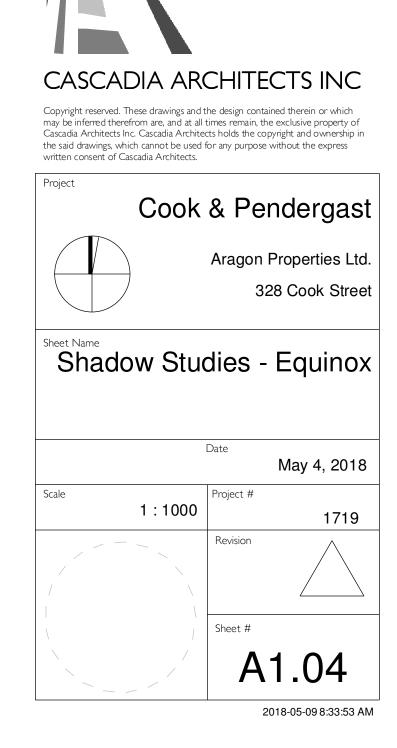
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Shadow - Equinox - 4 PM



Shadow - Equinox - 6 PM



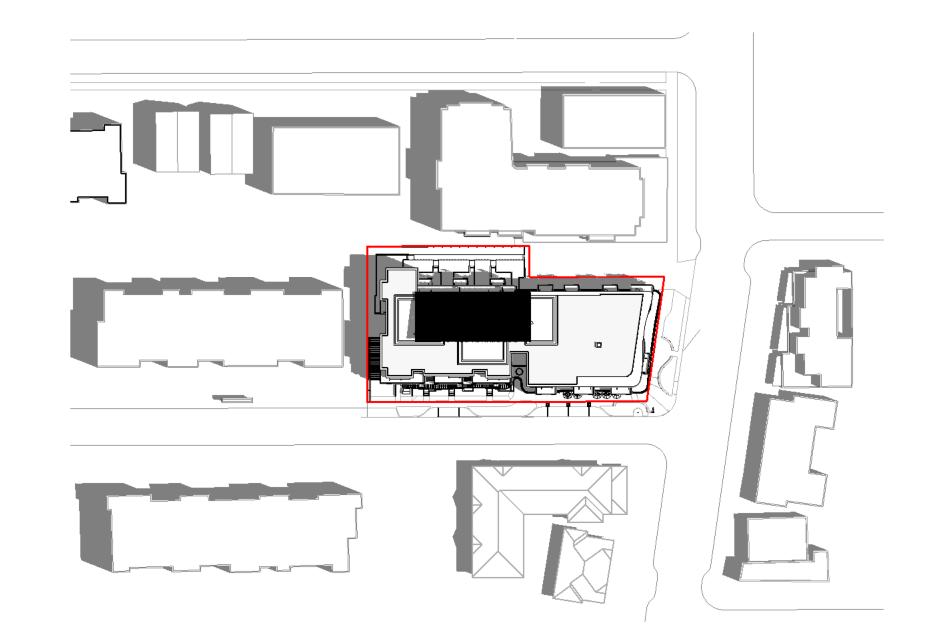
Re-zoning & Development Permit

DESCRIPTION

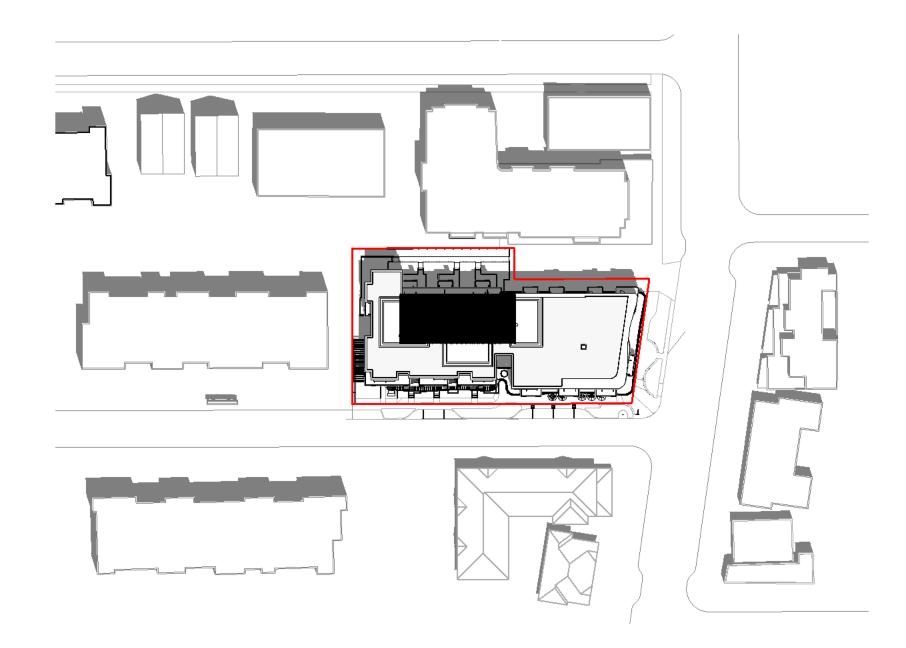
DATE



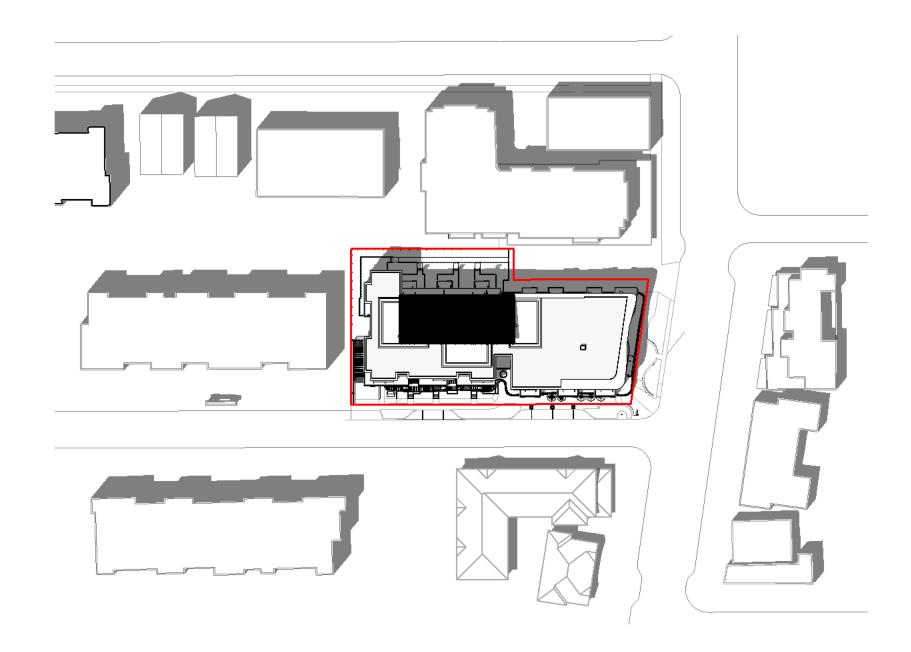
Shadow - Summer - 8 AM



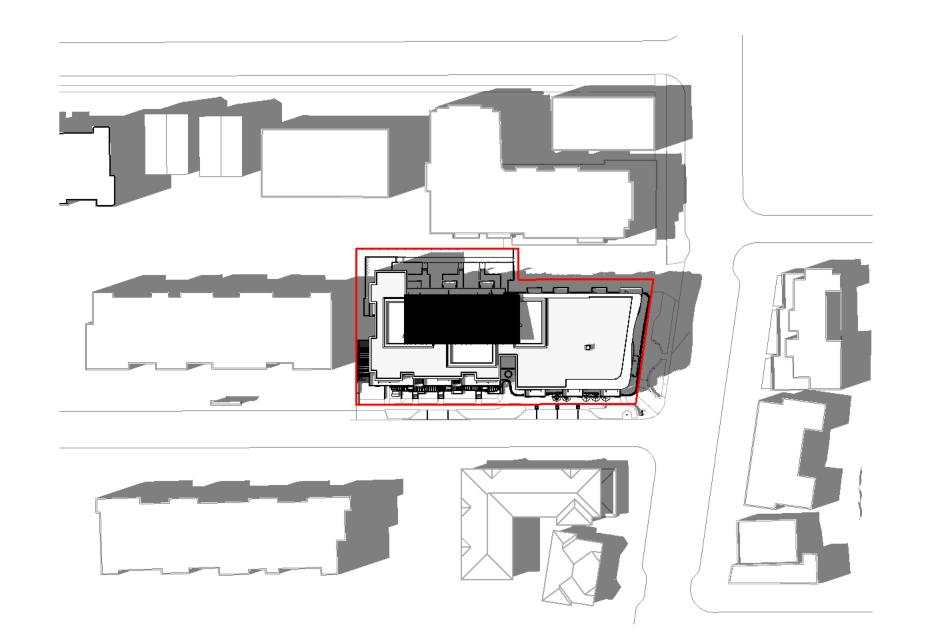
Shadow - Summer - 10 AM



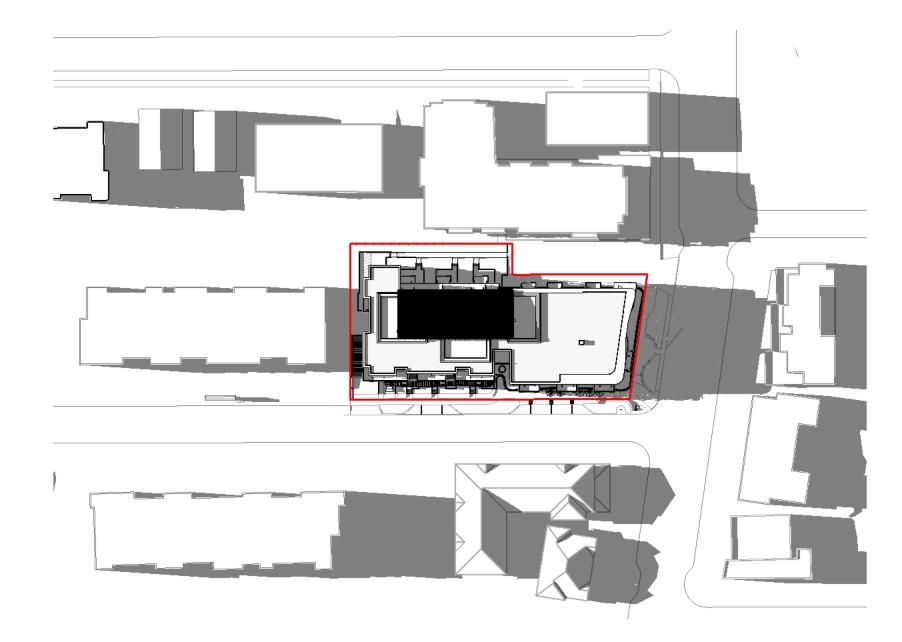
Shadow - Summer - 12 PM



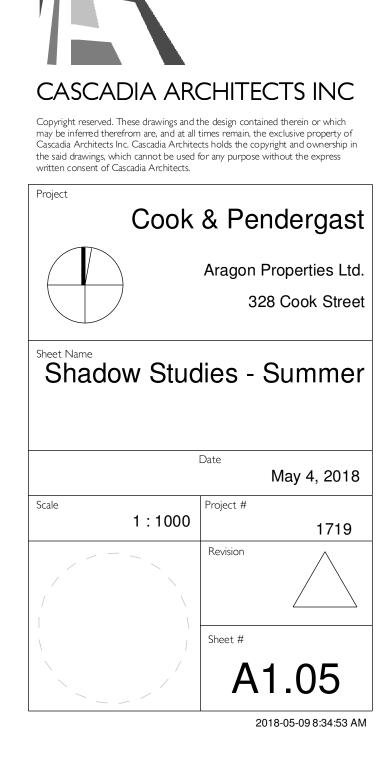
Shadow - Summer - 2 PM



Shadow - Summer - 4 PM



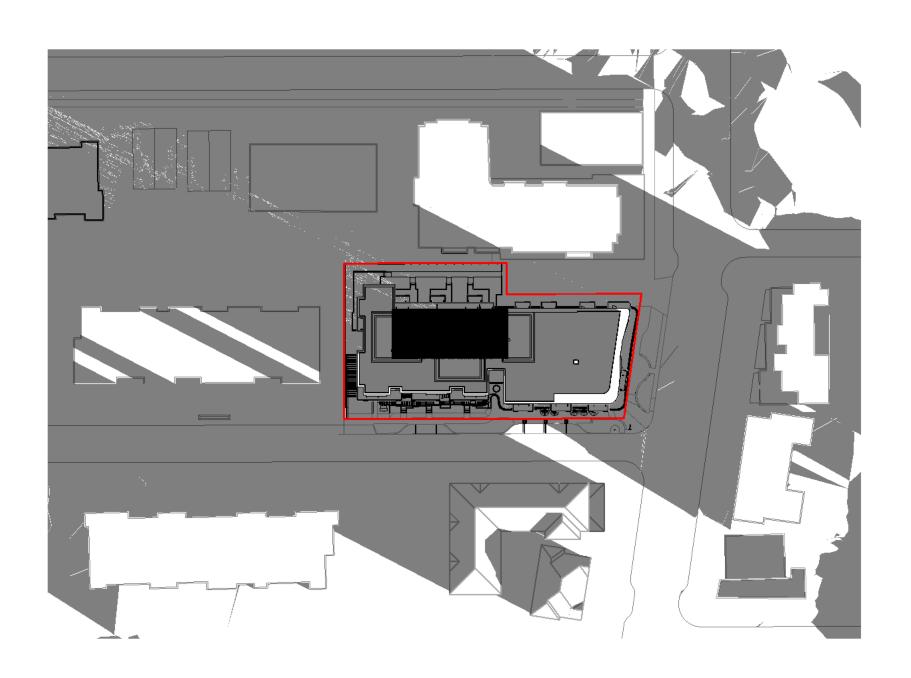
Shadow - Summer - 6 PM



Re-zoning & Development Permit

DESCRIPTION

DATE



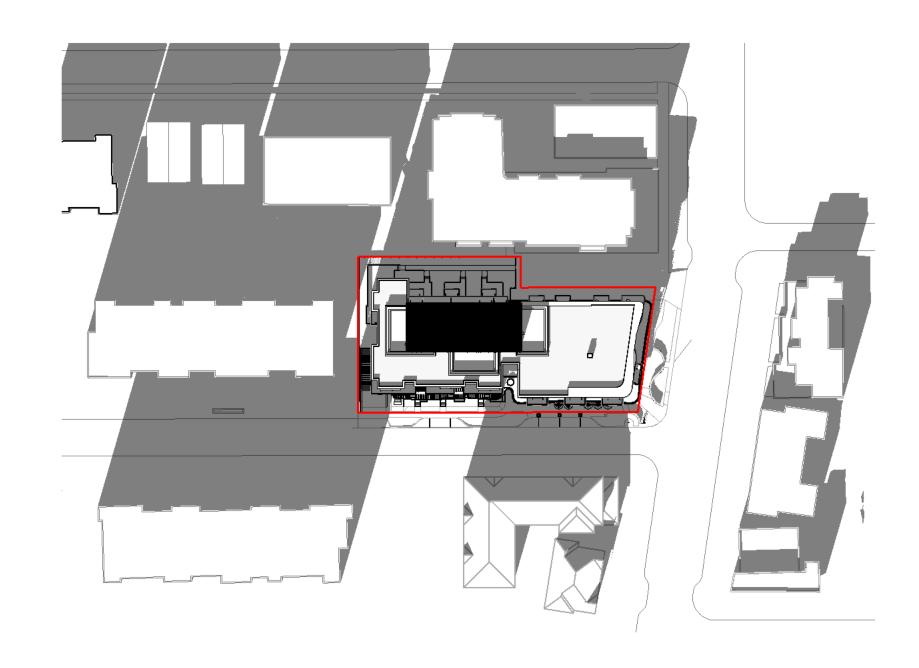
Shadow - Winter - 8 AM



Shadow - Winter - 10 AM



Shadow - Winter - 12 PM



Shadow - Winter - 2 PM



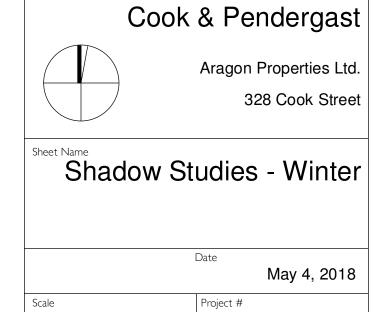
Shadow - Winter - 4 PM

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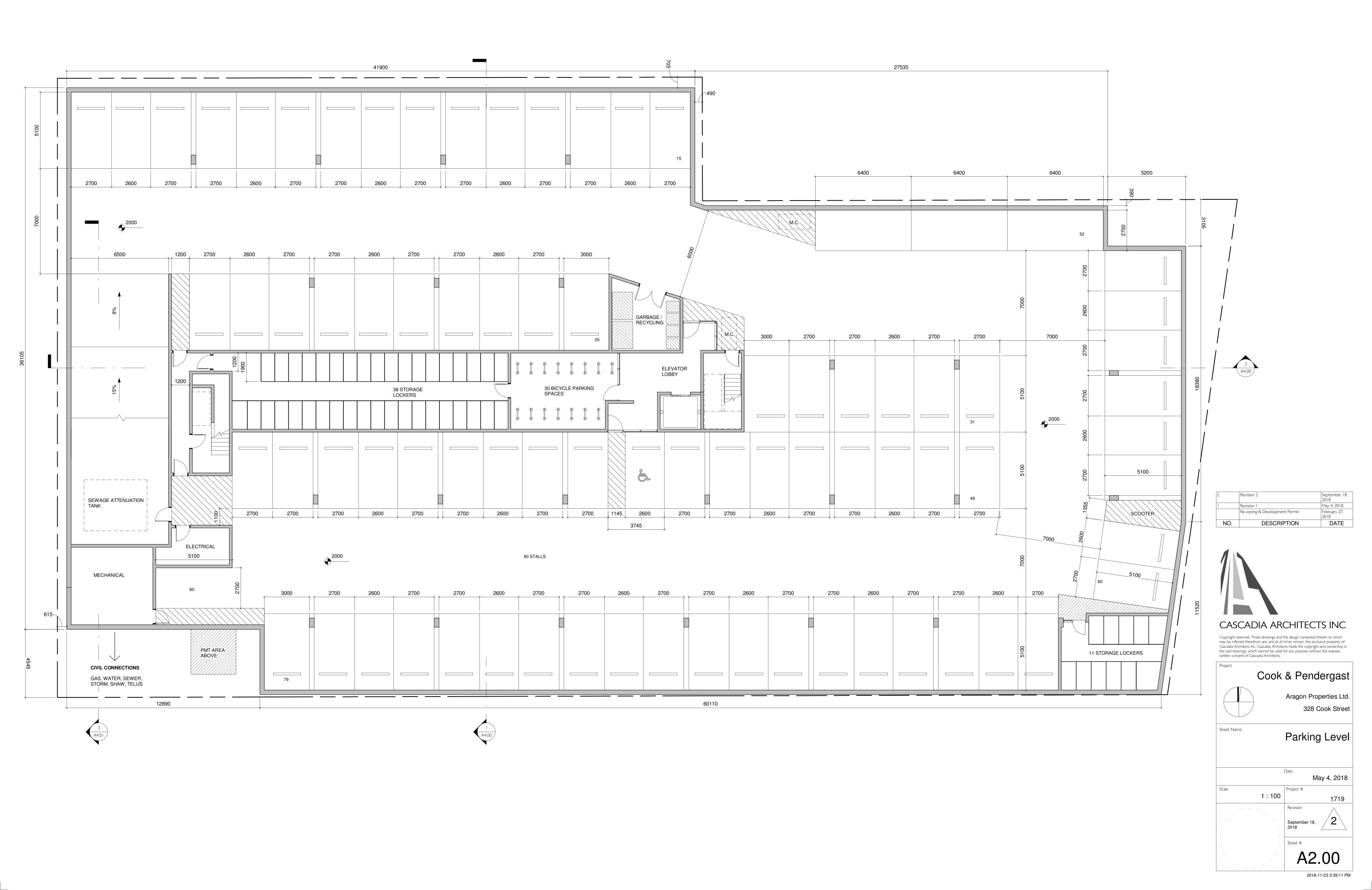
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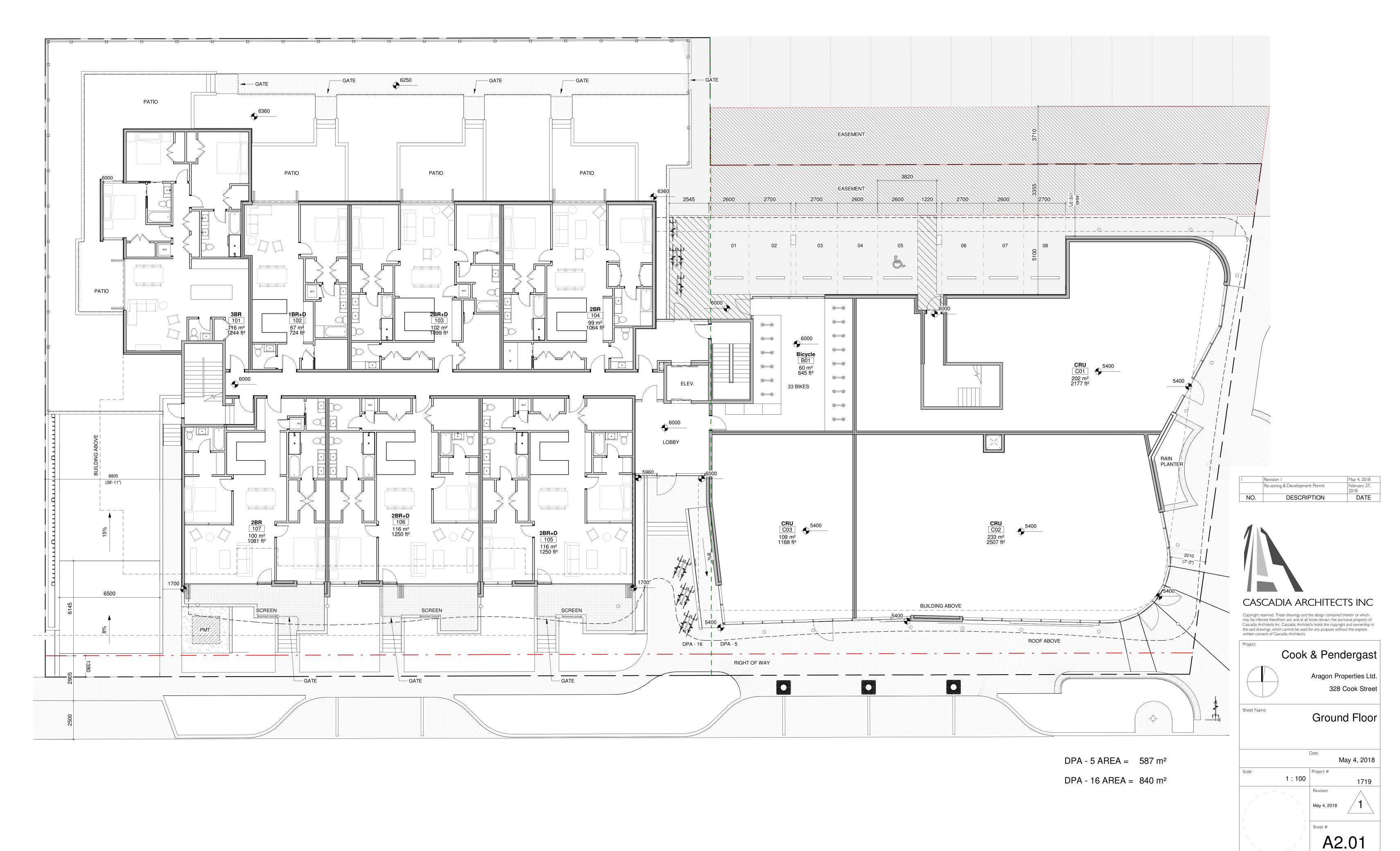


		May 4, 2018
	Project #	
1:1000		1719
	Revision	

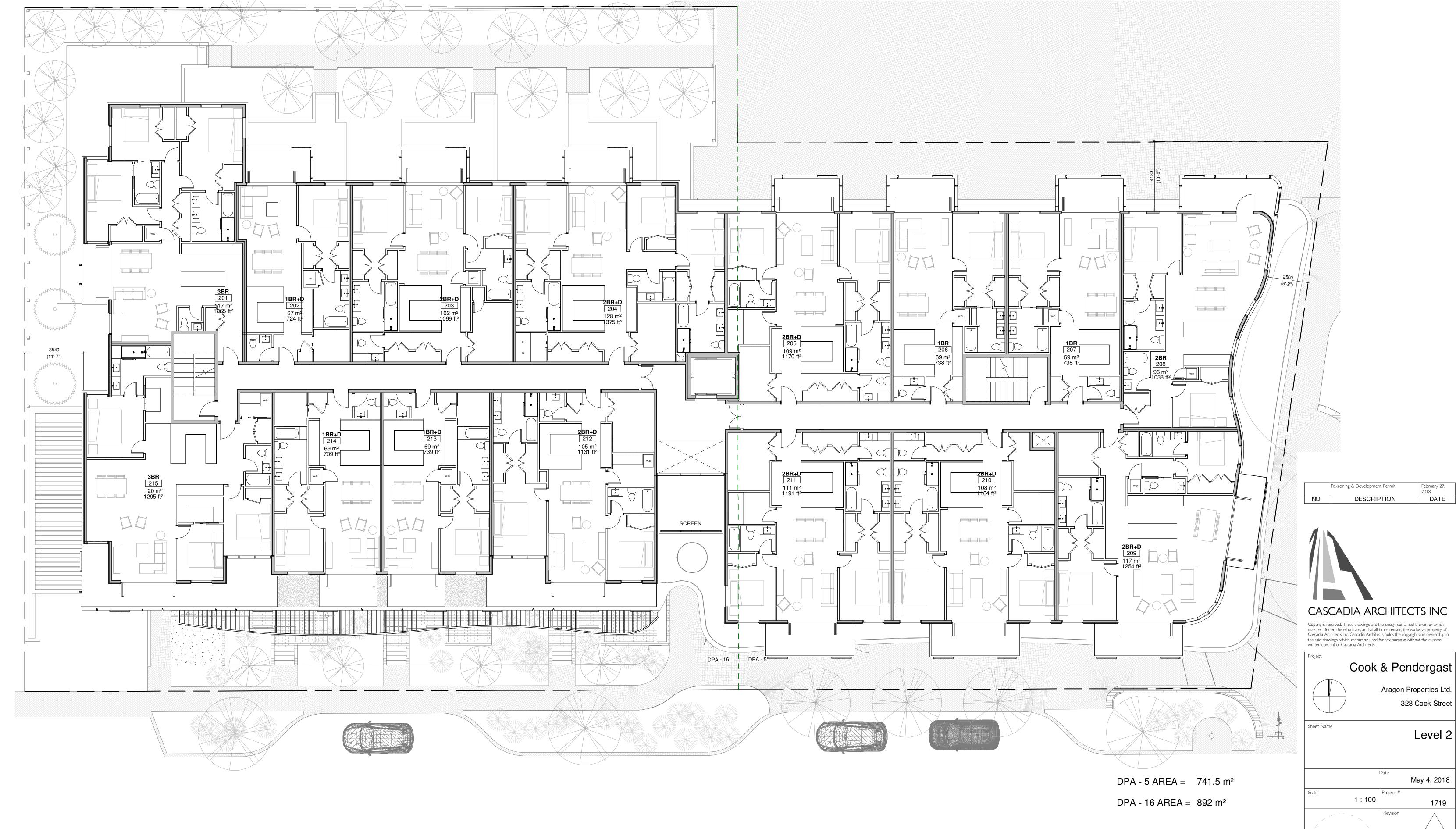
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2018-05-09 8:35:47 AM





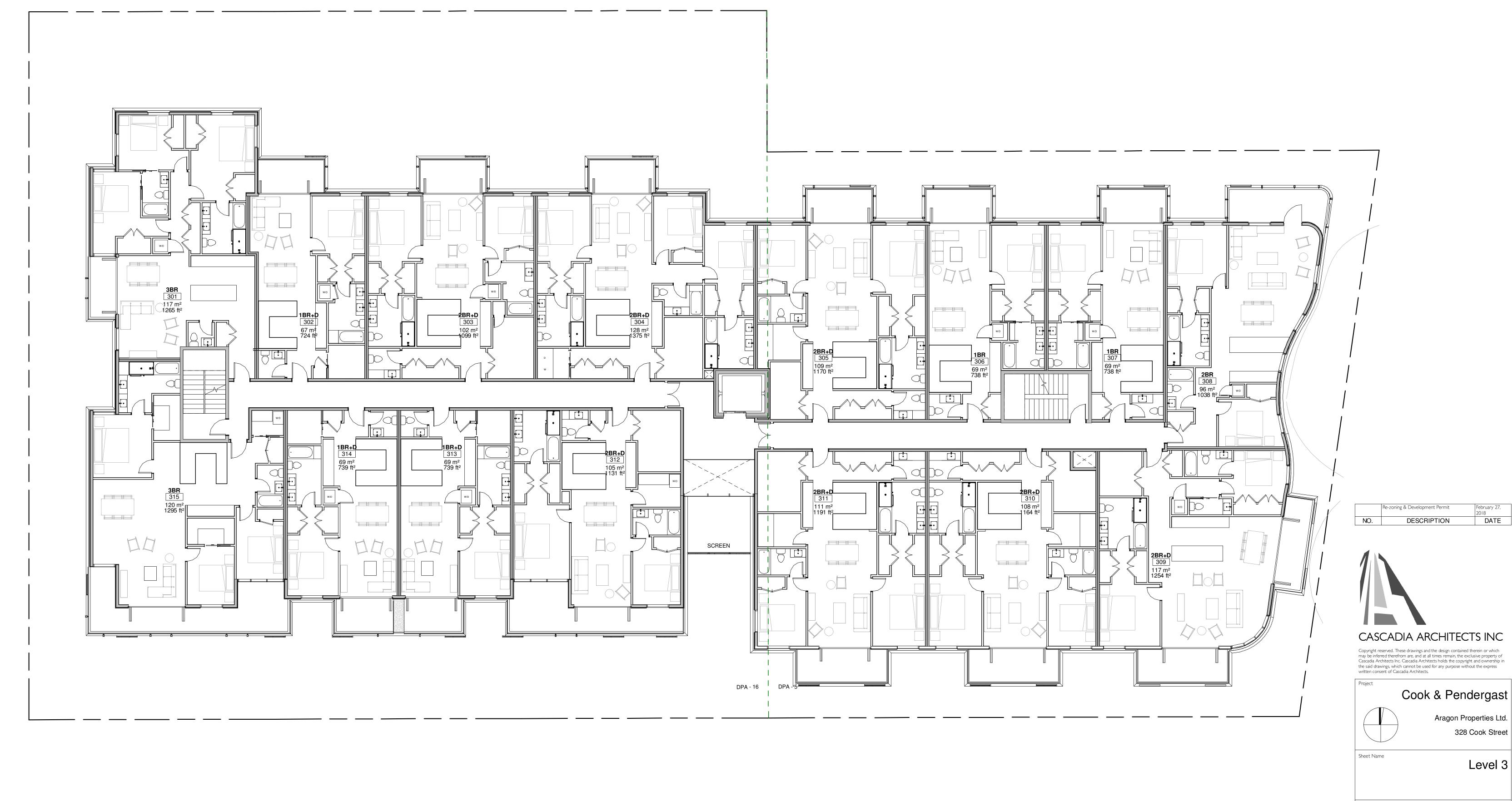
2018-11-23 3:58:17 PM



Level 2

A2.02

2018-05-09 8:36:07 AM



DPA - 5 AREA =  $741.5 \text{ m}^2$ 

DPA -  $16 \text{ AREA} = 892 \text{ m}^2$ 

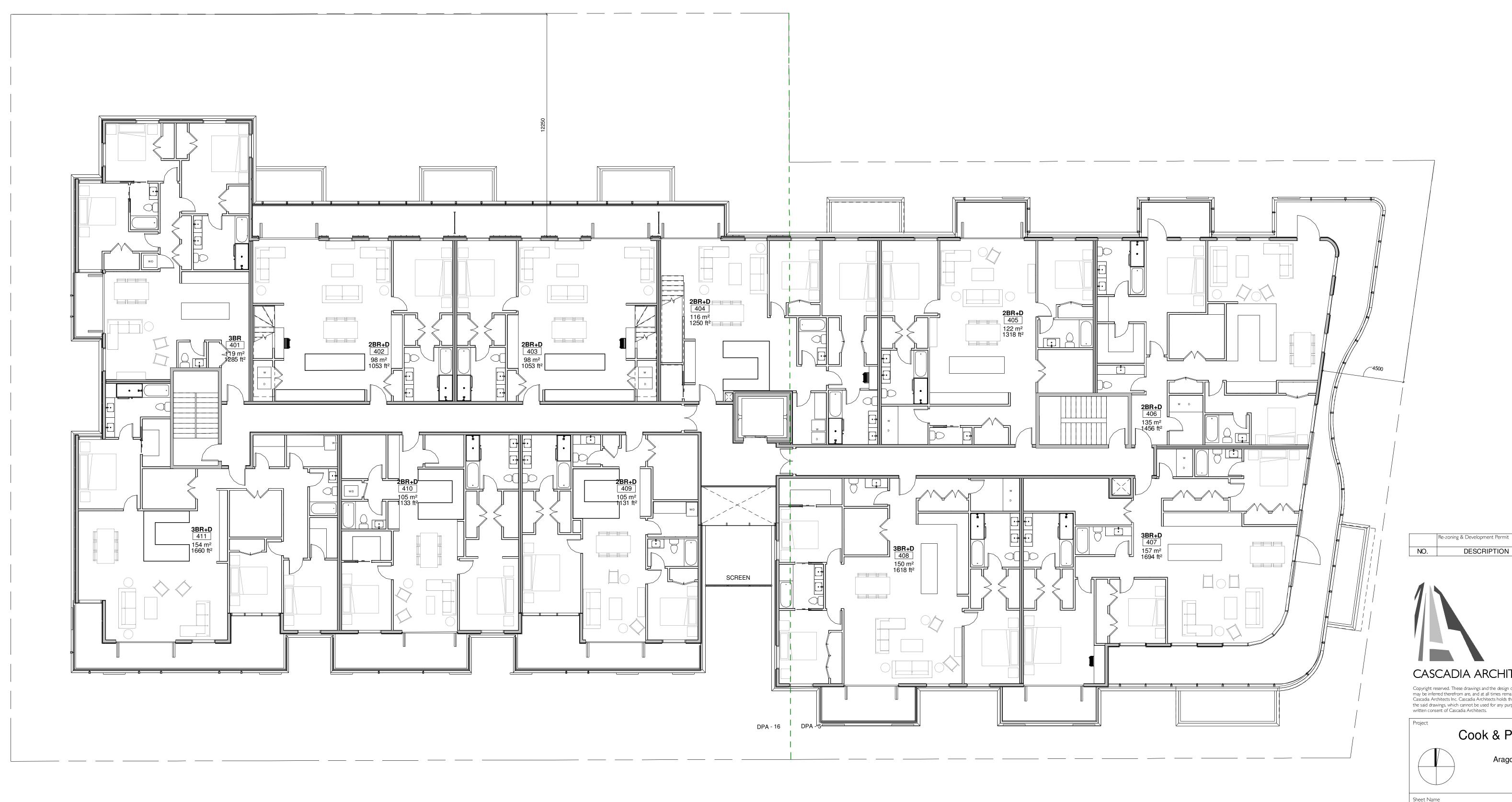


# CASCADIA ARCHITECTS INC



2018-05-09 8:36:13 AM

A2.03

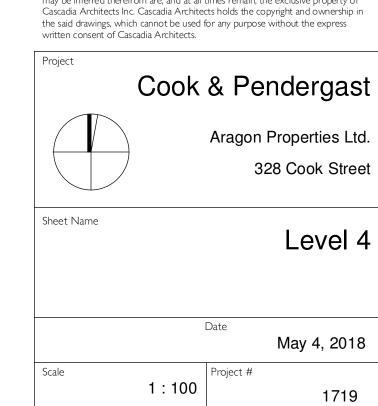


DATE DESCRIPTION



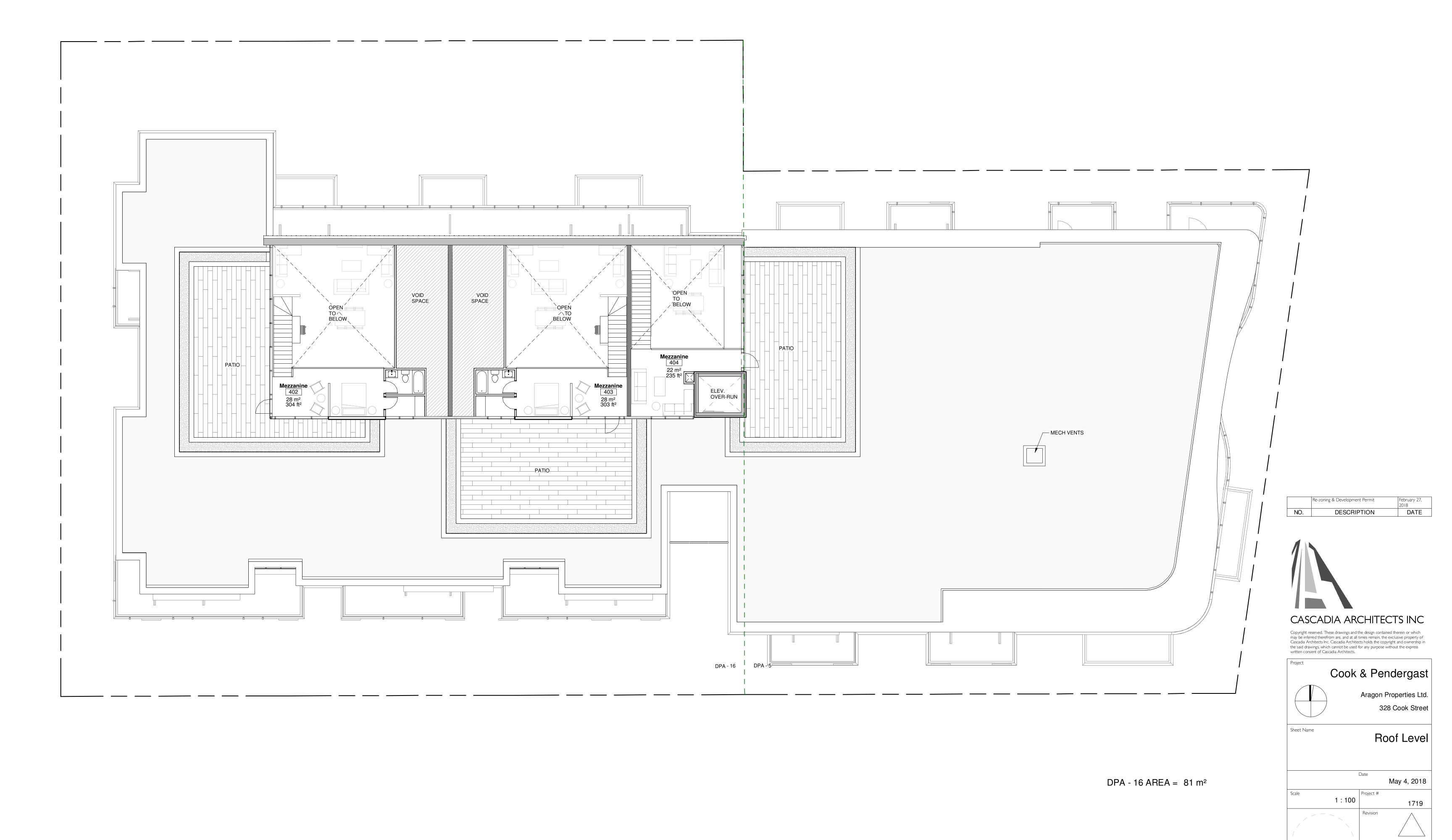
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 $DPA - 5 AREA = 677 m^2$ 

DPA -  $16 \text{ AREA} = 847 \text{ m}^2$ 

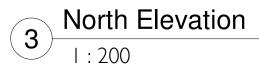


A2.05
2018-05-09 8:36:22 AM



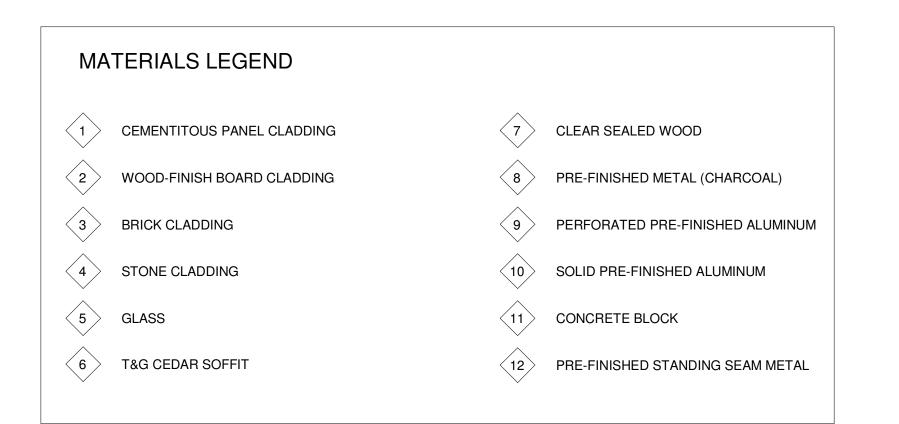
















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2018-11-23 3:40:15 PM







VIEW ALONG COOK STREET CORNER OF COOK STREET & PENDERGAST STREET CORNER OF COOK STREET & PENDERGAST STREET



Re-zoning & Development Permit February 27, 2018

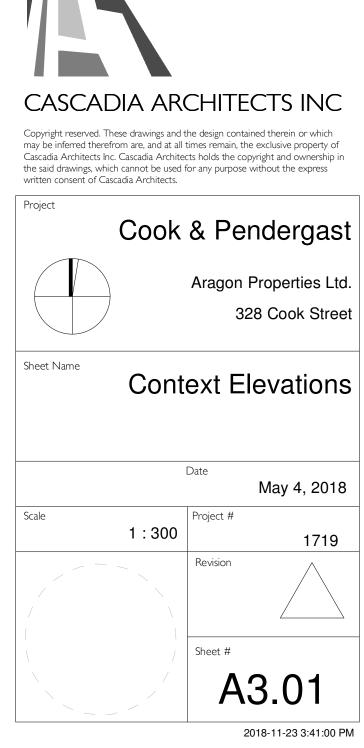
NO. DESCRIPTION DATE

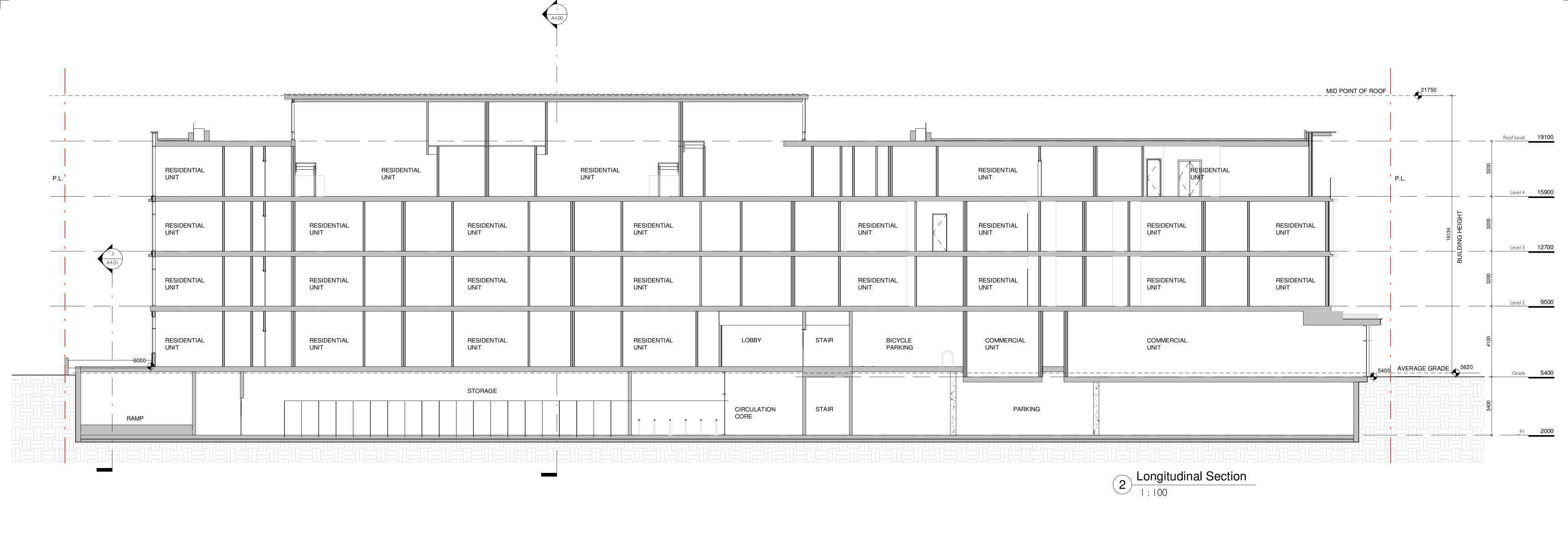
Pendergast Street Elevation

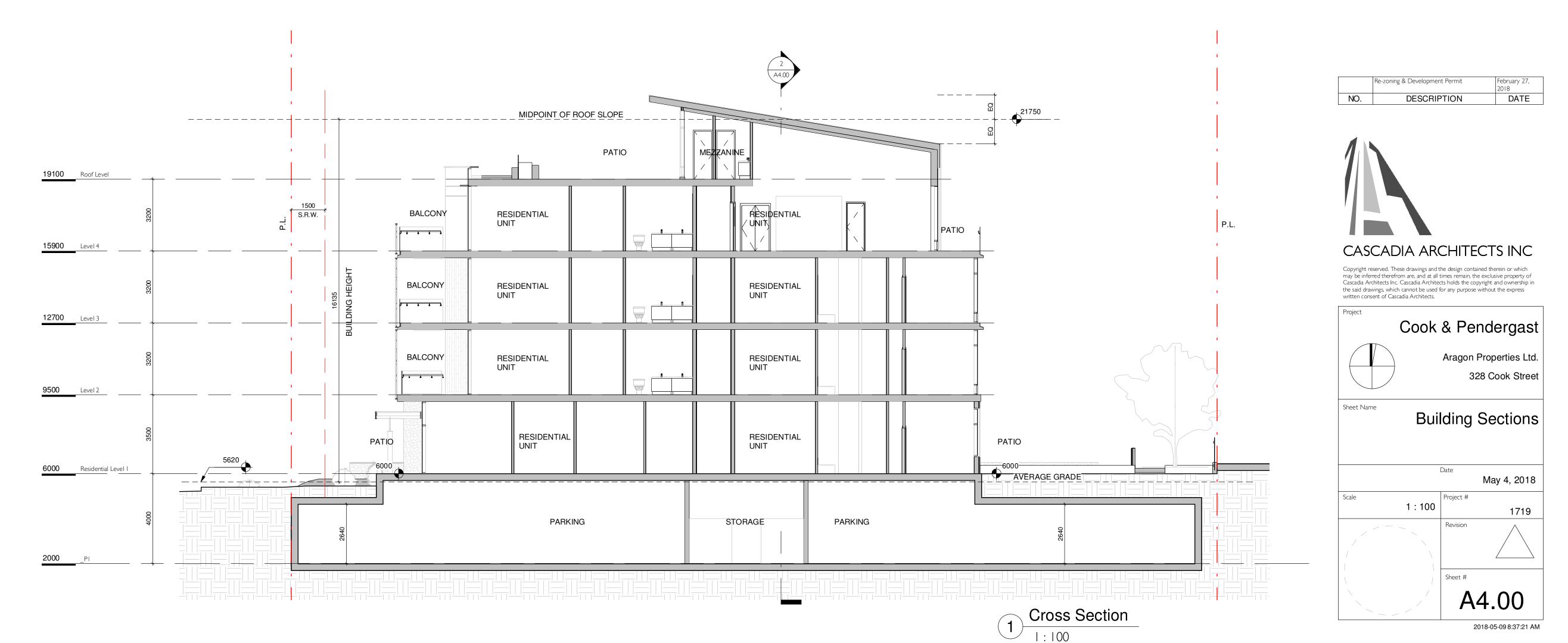
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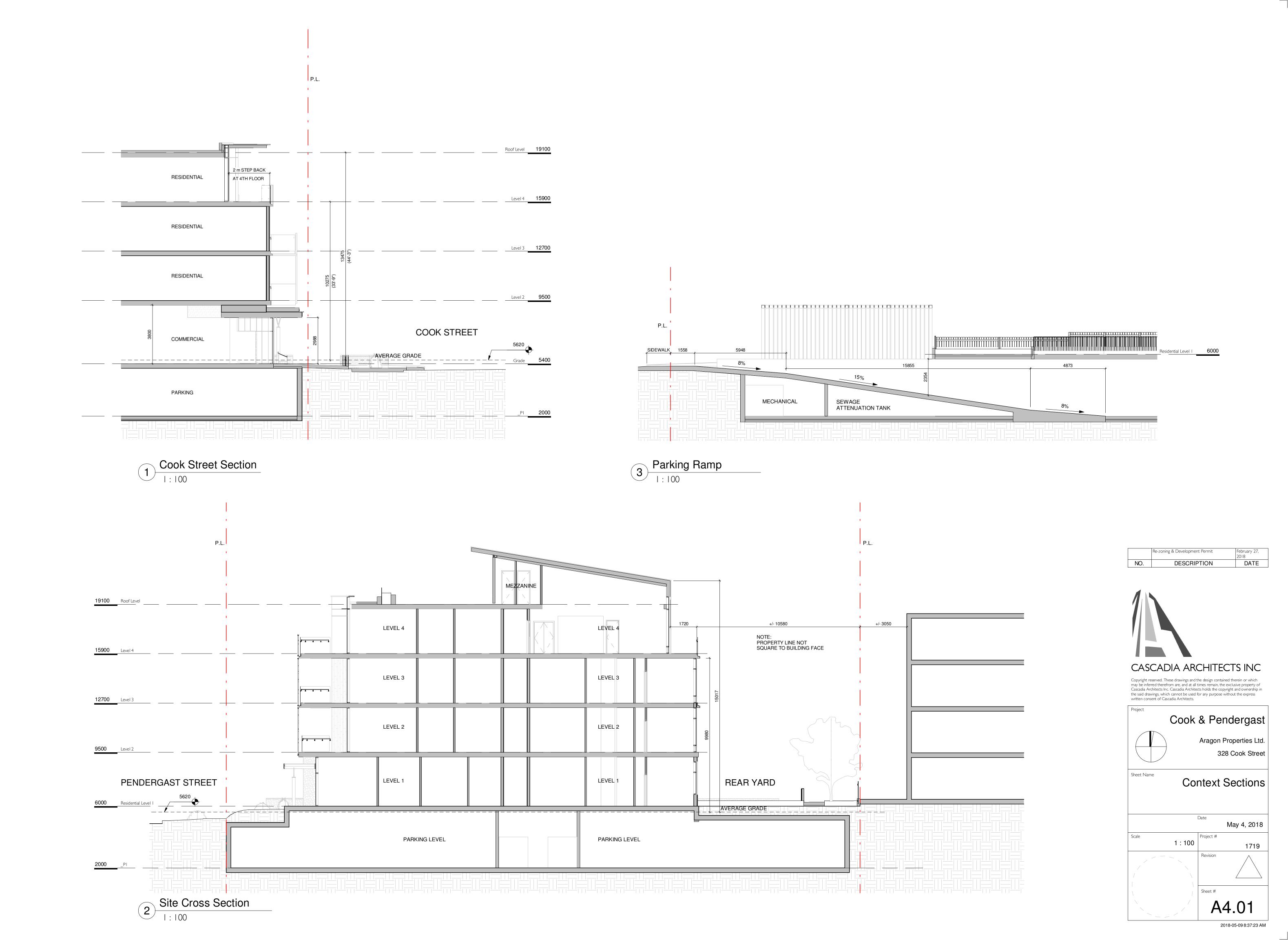


2 Cook Street Elevation













VIEW FROM COOK & PENDERGAST

RESIDENTIAL ENTRANCE

Revision I
Re-zoning & Development Permit

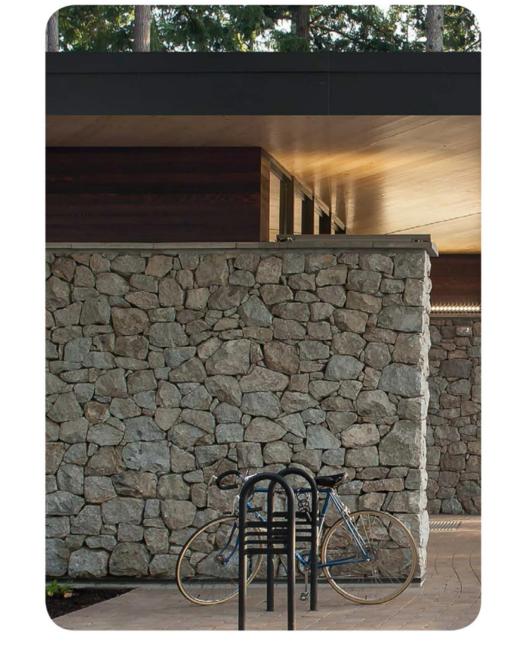
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DATE

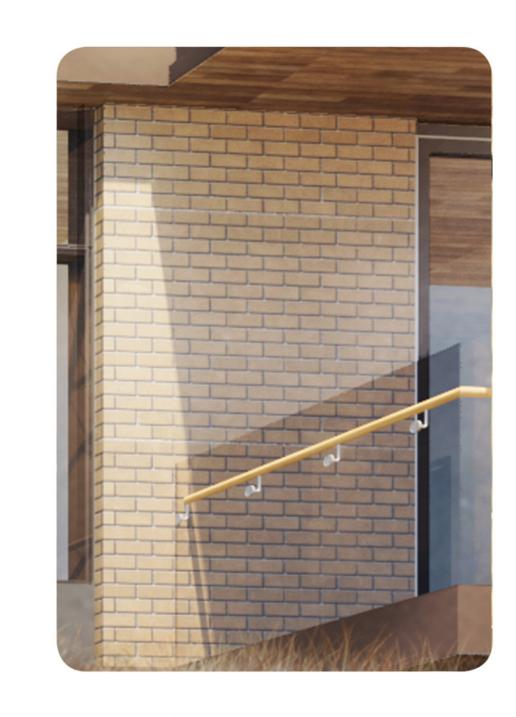




# PROJECT MATERIALS



STONE



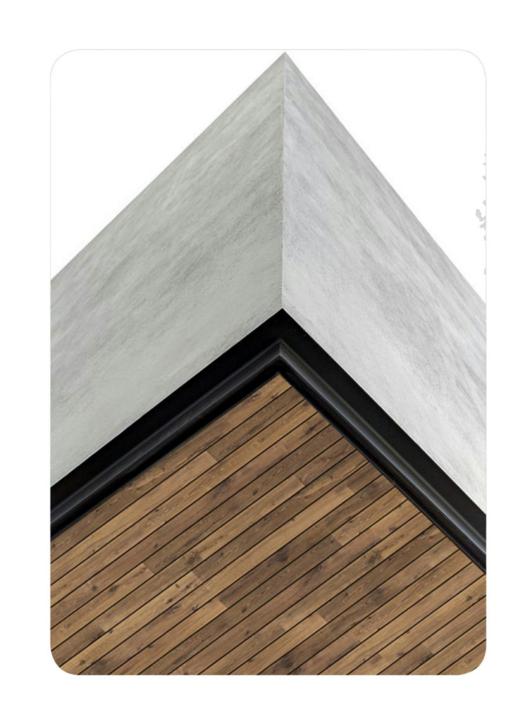
BRICK



WOOD



CEMENTITIOUS



SOFFIT



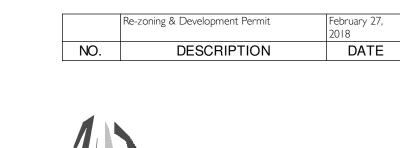
TIMBER



PAVING

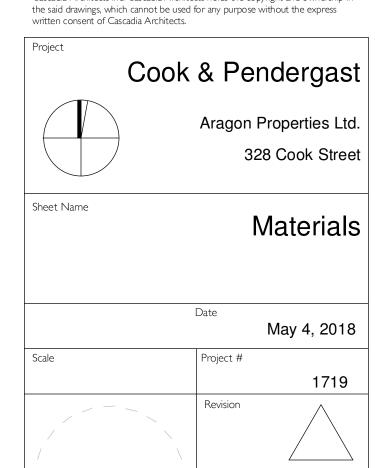


METAL



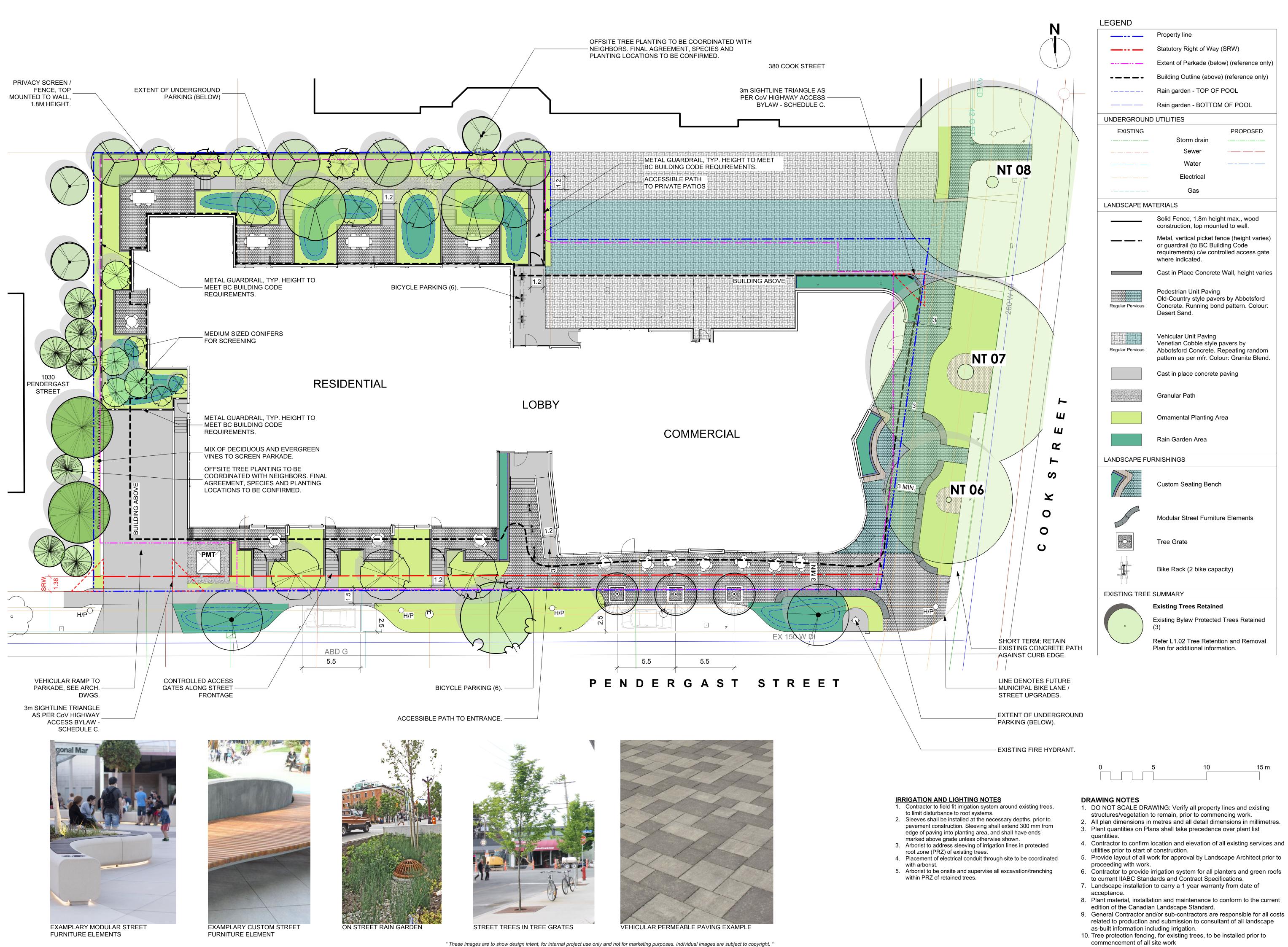


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2018-05-09 2:23:43 PM

A9.01



NOT FOR CONSTRUCTION

1 Rev. Sum. Response 2018.05.04 rev no description date

Murdoch de Greeff INC Landscape Planning & Design 200 - 524 Culduthel Road Victoria, BC V8Z 1G1 Pax: 250.412-2892

client
ARAGON PROPERTIES LTD.
201-1628 WEST 1ST AVENUE
VANCOUVER, BC

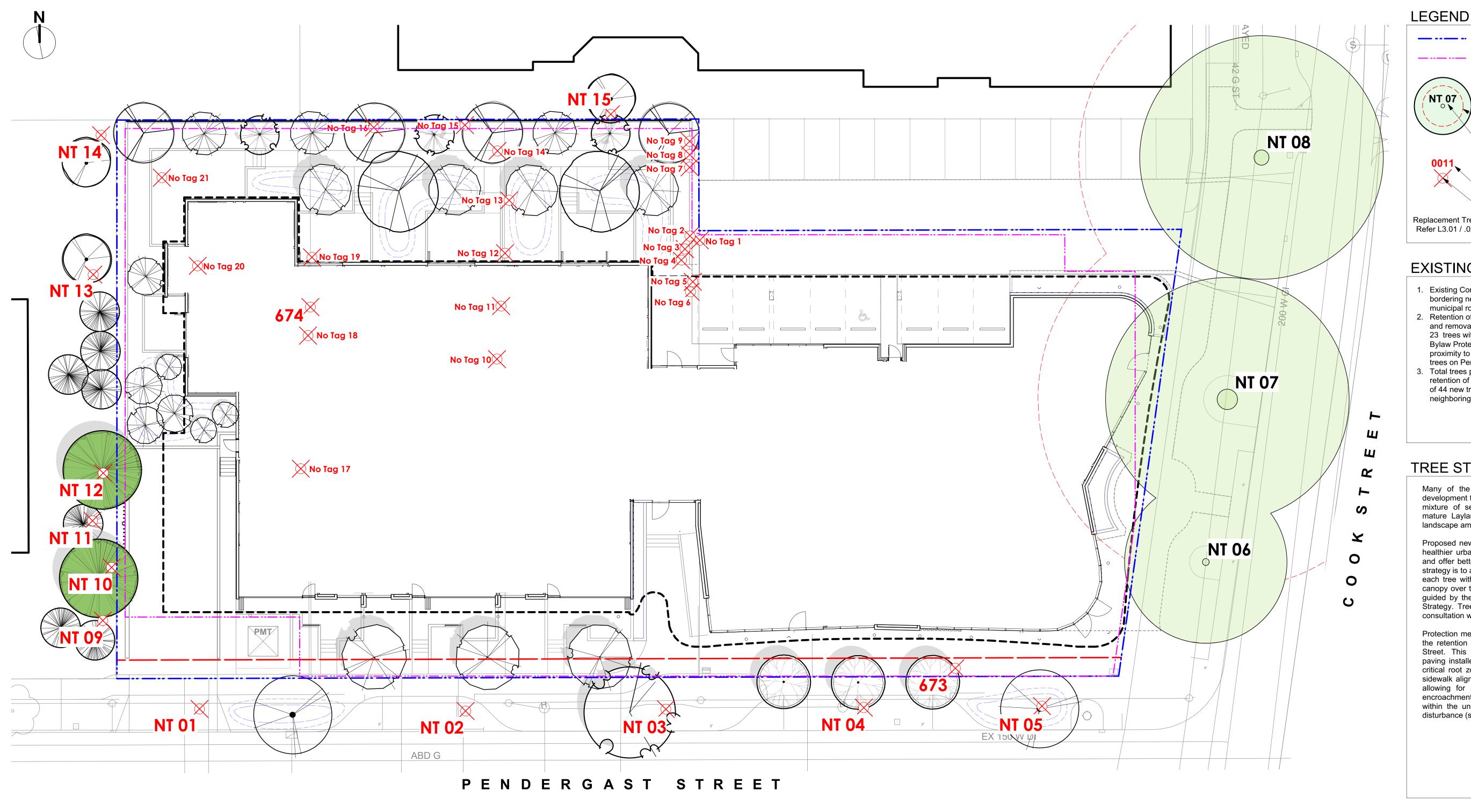
project

328 COOK STREET
324/238 COOK STREET &
1044-1054 PENDERGAST
STREET
VICTORIA, BC

sheet title

Landscape Materials Plan

project no.		117.28
scale	1:150	@ 24"x36"
drawn by		MDI
checked by		SM/PdG
revison no.	sheet no.	
	L	1.01



### Extent of Underground Parkade (indicative) **Existing Tree to be Retained** NT 07 - Crown Spread Protected Root Zone (PRZ) Tree Tag # Existing Tree to be Removed Tree Tag # Surveyed Trunk Replacement Tree ratio = 2:1 as per City of Victoria bylaws. Refer L3.01 / .02 Planting Plans for additional information.

Property line

#### **EXISTING TREE SUMMARY**

- Existing Condition: 38 trees on development lands, bordering neighboring properties and interfacing municipal road R.O.W's.
- 2. Retention of 3 Horse Chestnut Trees on Cook Street and removal 35 other trees. Removed trees include; 23 trees within development lands, 2 of which are Bylaw Protected, 7 neighbouring trees in close proximity to property lines and 5 municipal Cherry trees on Pendergast Street.
- 3. Total trees post development is 47. This includes; retention of the 3 Horse Chestnut trees and planting of 44 new trees, (12 of which are proposed on neighboring properties).

#### TREE STATEMENT

Many of the subject existing trees relating to this development that are proposed as being removed are a mixture of self seeded trees, remnants of an over mature Laylandii Cypress hedge and/or offer limited landscape amenity.

Proposed new tree plantings will aim to re-establish a healthier urban biodiversity, increase species diversity and offer better habitat value. Part of our tree planting strategy is to aim for generous soil volume allocation for each tree with a goal of increasing the urban forestry canopy over time. The design team's intentions will be guided by the City of Victoria's (CoV) Urban Forestry Strategy. Trees in the streetscape will be selected in consultation with CoV Parks staff.

Protection measures are being proposed to assist with the retention of the 3 Horse Chestnut Trees on Cook Street. This includes the installation of permeable paving installed on top of existing subgrade within the critical root zone (CRZ) areas. In additional, the new sidewalk alignment is setback from its current location allowing for more soil volume and less trunk flare encroachment. Pockets of low plantings are proposed within the understory which will also limit foot traffic disturbance (soil compaction) within the CRZ areas.

# ARAGON PROPERTIES LTD. 201-1628 WEST 1ST AVENUE VANCOUVER, BC

NOT FOR CONSTRUCTION

Rev. Sum. Response 2018.05.04

de Greeff INC

Landscape Planning & Design

description

Murdoch

200 - 524 Culduthel Road Victoria, BC V8Z 1G1

328 COOK STREET

324/238 COOK STREET & 1044-1054 PENDERGAST STREET VICTORIA, BC

sheet title

15 m

Tree Retention and Removal Plan

sheet no.	
	SM/PdG
	MDI
1:150	@ 24"x36"
	117.28
	1:150

**DRAWING NOTES** 1. DO NOT SCALE DRAWING: Verify all property lines and existing structures/vegetation to remain, prior to commencing work. 2. All plan dimensions in metres and all detail dimensions in millimetres. quantities.

3. Plant quantities on Plans shall take precedence over plant list

4. Contractor to confirm location and elevation of all existing services and utilities prior to start of construction.

5. Provide layout of all work for approval by Landscape Architect prior to

proceeding with work. 6. Contractor to provide irrigation system for all planters and green roofs to current IIABC Standards and Contract Specifications.

acceptance. 8. Plant material, installation and maintenance to conform to the current edition of the Canadian Landscape Standard.

9. General Contractor and/or sub-contractors are responsible for all costs

7. Landscape installation to carry a 1 year warranty from date of

related to production and submission to consultant of all landscape as-built information including irrigation. 10. Tree protection fencing, for existing trees, to be installed prior to

commencement of all site work

RETAINED TREE	<u>.S</u>			
TREE TAG#	DBH (cm)	PRZ (radius in m)	SPECIES	CROWN SPREAD (m)
NT 06*	51	6.0	Aesculus hippocastanum, Horsechest Nut	12.0
NT 07*	<u>118</u>	<u>14.0</u>	Aesculus hippocastanum, Horsechest Nut	<u>18.0</u>
NT 08*	<u>112</u>	<u>13.5</u>	Aesculus hippocastanum, Horsechest Nut	<u>18.0</u>
OTAL TREES TO	BE RETAINED:	3		
YLAW PROTEC	TED TREES RI	EMOVED		
TREE TAG#	DBH (cm)	PRZ (radius in m)	SPECIES	<b>CROWN SPREAD (m</b>
<u>674</u>	<u>61</u>	9.0	Thuja plicata, Western Red Cedar	<u>12.0</u>
	26 22 22 22	10.0	Prunus cerasifera, Purple Leaf Plum	<u>12.0</u>
<u>673</u>	36, 32, 23, 22	10.0	Frunus cerasilera, Furpie Lear Fluin	12.0
<del></del>		<del></del>	riulius celasileia, ruipie Leai riulii	12.0
YLAW PROTECT	ED TREES TO B	<del></del>	<u>Frunus cerasilera, Furpie Lear Fium</u>	12.0
YLAW PROTECT	ED TREES TO B	<del></del>	SPECIES	CROWN SPREAD (m
YLAW PROTECT	ED TREES TO B	E REMOVED: 2		
YLAW PROTECT THER TREES R TREE TAG #	ED TREES TO B EMOVED DBH (cm)	E REMOVED: 2 PRZ (radius in m)	SPECIES	CROWN SPREAD (m
YLAW PROTECT THER TREES R TREE TAG # NT 01*	ED TREES TO B EMOVED DBH (cm) 29	E REMOVED: 2  PRZ (radius in m)  3.5	SPECIES Prunus spp., Cherry	CROWN SPREAD (m 6.0
YLAW PROTECT THER TREES R TREE TAG # NT 01* NT 02*	ED TREES TO B EMOVED DBH (cm) 29 17	PRZ (radius in m) 3.5 2.0	SPECIES Prunus spp., Cherry Prunus spp., Cherry	CROWN SPREAD (m 6.0 4.0
THER TREES R TREE TAG # NT 01* NT 02* NT 03*	ED TREES TO B EMOVED  DBH (cm) 29 17 35	PRZ (radius in m) 3.5 2.0 4.0	SPECIES Prunus spp., Cherry Prunus spp., Cherry Prunus spp., Cherry	CROWN SPREAD (m 6.0 4.0 10.0
TREE TAG # NT 01* NT 02* NT 03* NT 04*	ED TREES TO B EMOVED  DBH (cm) 29 17 35 15	PRZ (radius in m) 3.5 2.0 4.0 2.0	SPECIES Prunus spp., Cherry Prunus spp., Cherry Prunus spp., Cherry Prunus spp., Cherry	CROWN SPREAD (m 6.0 4.0 10.0 4.0
TREE TAG # NT 01* NT 02* NT 03* NT 04* NT 05*	ED TREES TO B EMOVED  DBH (cm) 29 17 35 15 15	PRZ (radius in m) 3.5 2.0 4.0 2.0 2.0	SPECIES Prunus spp., Cherry	CROWN SPREAD (m 6.0 4.0 10.0 4.0 4.0
TREE TAG #  NT 01*  NT 02*  NT 03*  NT 04*  NT 05*  NT 09*	ED TREES TO B EMOVED  DBH (cm)  29  17  35  15  15  20, 15	PRZ (radius in m)  3.5  2.0  4.0  2.0  2.0  3.0	SPECIES Prunus spp., Cherry Ilex aquifolium, Holly	CROWN SPREAD (m 6.0 4.0 10.0 4.0 4.0 5.0
TREE TAG # NT 01* NT 02* NT 03* NT 04* NT 05* NT 09* NT 09* NT 10*	ED TREES TO B EMOVED  DBH (cm) 29 17 35 15 15 20, 15 55	PRZ (radius in m) 3.5 2.0 4.0 2.0 2.0 3.0 8.5	SPECIES  Prunus spp., Cherry Ilex aquifolium, Holly Thuja plicata, Western Red Cedar	CROWN SPREAD (m 6.0 4.0 10.0 4.0 4.0 5.0 10.0

Malus spp., Apple

Prunus spp., Cherry

8.0

10.0

Based on Construction Impact & Tree Presevervation Plan Report from Talbot Mackenzie & Associates, dated November 10, 2017. Refer to Arborist Report for details on tree conditions and Arborist recommendations. 'No Tag' trees based on Murdoch de

**EXISTING TREE INVENTORY** 

35

NT 14\*

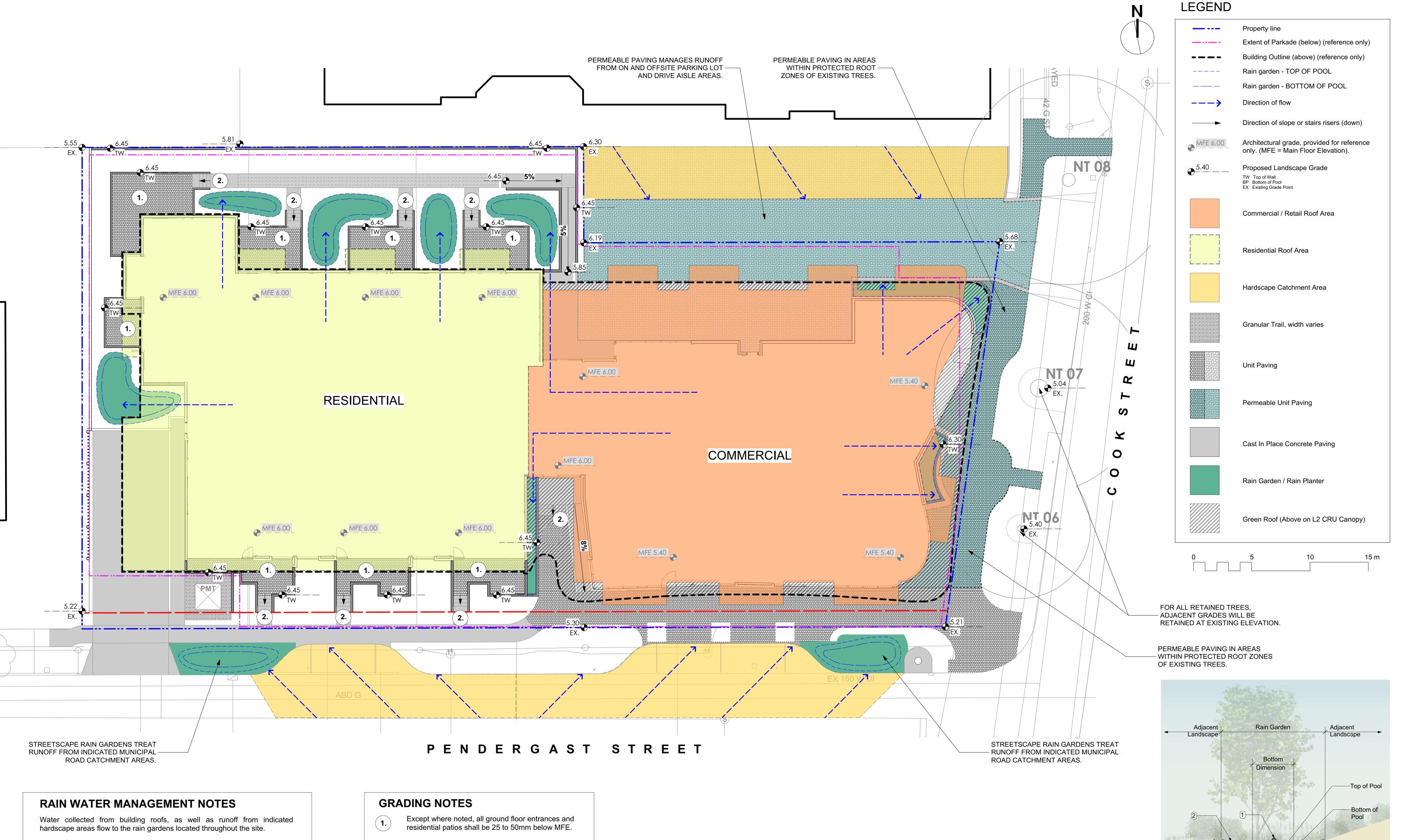
NT 15\*

4.0

5.0

Greeff field inventory work.

TREE TAG #	DBH (cm)	PRZ (radius in m)	SPECIES	CROWN SPREAD (m)		
No Tag 1	-	-	Prunus spp., Cherry	-		
No Tag 2	-	-	Cupressus x leylandii, Leyland Cypress	-		
No Tag 3	-	-	Cupressus x leylandii, Leyland Cypress	-		
No Tag 4	-	-	Cupressus x leylandii, Leyland Cypress	-		
No Tag 5	-	-	Cupressus x leylandii, Leyland Cypress	-		
No Tag 6	-	-	Cupressus x leylandii, Leyland Cypress	-		
No Tag 7	-	-	Cupressus x leylandii, Leyland Cypress	-		
No Tag 8	-	-	Cupressus x leylandii, Leyland Cypress	-		
No Tag 9	-	-	Cupressus x leylandii, Leyland Cypress	-		
No Tag 10	-	-	Fraxinus spp., Ash spp.	-		
No Tag 11	-	-	Laburnum spp. Golden Chain Tree	-		
No Tag 12	-	-	Fraxinus spp., Ash spp.	-		
No Tag 13	-	-	Fraxinus spp., Ash spp.	-		
No Tag 14	-	-	Fraxinus spp., Ash spp.	-		
No Tag 15	-	-	Fraxinus spp., Ash spp.	-		
No Tag 16	-	-	Prunus spp., Cherry	-		
No Tag 17	-	-	Cedar spp., Cedar cultivar	-		
No Tag 18	-	-	Crataegus spp., Hawthorne spp.	-		
No Tag 19	-	-	Prunus spp., Cherry	-		
No Tag 20	-	-	Cupressus x leylandii, Leyland Cypress	-		
No Tag 21	-	-	Fraxinus spp., Ash spp.	-		
OTHER TREES TO E	BE REMOVED:	33				
TOTAL TREES TO BE REMOVED: 35						
Bylaw protected trees	Bylaw protected trees are shown underlined					
* Offsite trees with PF	* Offsite trees with PRZ extending into the project site.					
NEW TREES ONSIT	NEW TREES ONSITE: 32					
NEW TREES ON NE	NEW TREES ON NEIGHBORING PROPERTIES: 12					
TOTAL NEW TREES	TOTAL NEW TREES: 44					



The rain gardens are sized such that the bottom of the rain garden is a minimum of 5% of the impervious area (as per City of Victoria Stormwater Guidelines).

Rain gardens will be designed with underdrains and a high capacity overflow drain that will be connected to the onsite piped drainage system.

Permeable paving is used to manage hardscape in areas within the protected root zones of existing trees. Permeable paving is also used to manage parking lot runoff on the north side of the building and treats runoff from the adjacent property as indicated.

All paths and where possible, residential patios will be drained towards absorbent landscape areas or rain gardens.

Streetscape rain gardens are proposed on Pendergast Street. These will capture, slow and treat (clean) runoff from municipal road catchment areas as indicated on the plan.

A Green Roof is proposed for the L2 CRU canopy roof area. Total green roof area is 120sq. m. which is approximately 5% of the total site area.

All residential patios and lobby entrances shall have 0 to 3 risers (max.) for stair transitions. Final number of risers dependent upon final grades.

#### **GRADING NOTES**

- 1. ALL ELEVATIONS ARE IN METRES.
- 2. REFER TO ARCHITECTURAL PLANS, SECTIONS AND ELEVATIONS FOR TOP OF SLAB ELEVATIONS. SLAB ELEVATIONS INDICATED ON LANDSCAPE DRAWINGS ARE FOR REFERENCE ONLY. REPORT ANY DISCREPANCIES TO CONSULTANT FOR REVIEW AND RESPONSE.
- 3. ALL ROAD AND PUBLIC WALKWAY ELEVATIONS INDICATED ON LANDSCAPE DRAWINGS ARE FOR REFERENCE ONLY. REFER TO CIVIL ENGINEERING DRAWINGS FOR ALL ROAD AND ARCHITECTURAL DRAWINGS FOR PUBLIC WALKWAY ELEVATIONS. REPORT ANY DISCREPANCIES TO CONSULTANT
- FOR REVIEW AND RESPONSE. 4. CONFIRM ALL EXISTING GRADES PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO CONSULTANT FOR REVIEW AND RESPONSE.
- 5. UNLESS OTHERWISE NOTED PROVIDE A MINIMUM SLOPE OF 2% ON ALL HARD AND SOFT LANDSCAPE AREAS TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS OR TO DRAINAGE STRUCTURES.

- 1. DO NOT SCALE DRAWING: Verify all property lines and existing structures/vegetation to remain, prior to commencing work.
- quantities.
- 4. Contractor to confirm location and elevation of all existing services and utilities prior to start of construction.
- 6. Contractor to provide irrigation system for all planters and green roofs
- 7. Landscape installation to carry a 1 year warranty from date of
- 8. Plant material, installation and maintenance to conform to the current edition of the Canadian Landscape Standard.
- related to production and submission to consultant of all landscape as-built information including irrigation.
- 10. Tree protection fencing, for existing trees, to be installed prior to

**DRAWING NOTES** 

- 2. All plan dimensions in metres and all detail dimensions in millimetres. 3. Plant quantities on Plans shall take precedence over plant list
- 5. Provide layout of all work for approval by Landscape Architect prior to proceeding with work.
- to current IIABC Standards and Contract Specifications.
- acceptance.
- 9. General Contractor and/or sub-contractors are responsible for all costs
- commencement of all site work

300 mm

300 mm

- RAIN GARDEN MATERIALS 1. Overflow drain, 200 mm domed grate + adapter
- 2. Composted mulch, 50 -70 mm depth

7. 25 mm diameter drain rock, 100 mm depth

- 3. Bio-retention growing medium, 450 mm depth
- 4. Scarified/tilled subgrade, 300 mm depth
- 5. Existing subgrade/native material 6. 100 mm diameter (min) perforated pipe

<u>Typical</u> Rain Garden Detail Scale: 1:50

NOT FOR CONSTRUCTION Rev. Sum. Response | 2018.05.04

/ Murdoch

de Greeff inc



328 COOK STREET 324/238 COOK STREET & 1044-1054 PENDERGAST STREET VICTORIA, BC

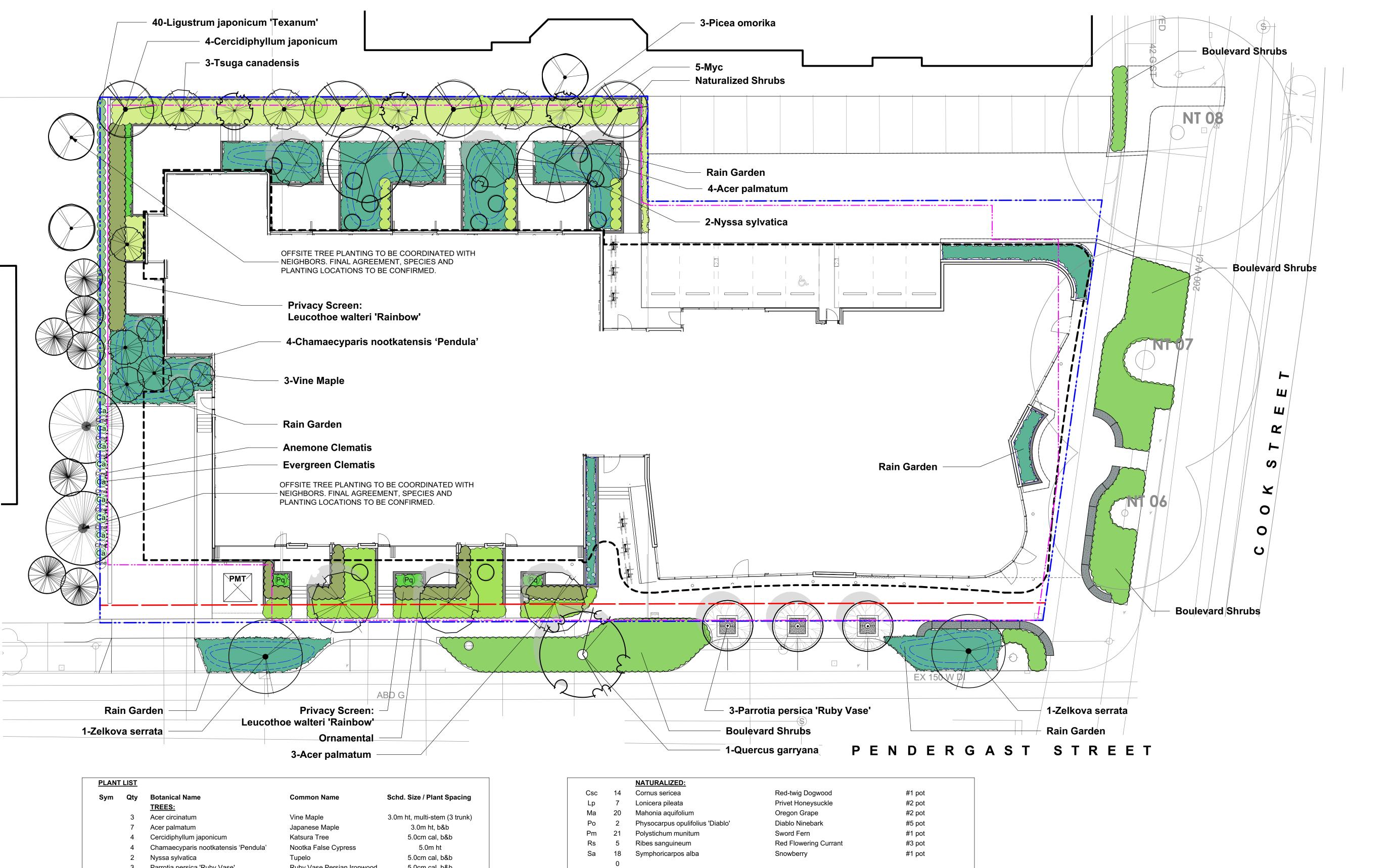
sheet title

Stormwater Management Plan

117.28 project no. 1:150 @ 24"x36" scale MDI drawn by SM/PdG checked by sheet no. revison no.

1

L1.03



Sym	Qty	Botanical Name TREES:	Common Name	Schd. Size / Plant Spacing
	3	Acer circinatum	Vine Maple	3.0m ht, multi-stem (3 trunk)
	7	Acer palmatum	Japanese Maple	3.0m ht, b&b
	4	Cercidiphyllum japonicum	Katsura Tree	5.0cm cal, b&b
	4	Chamaecyparis nootkatensis 'Pendula'	Nootka False Cypress	5.0m ht
	2	Nyssa sylvatica	Tupelo	5.0cm cal, b&b
	3	Parrotia persica 'Ruby Vase'	Ruby Vase Persian Ironwood	5.0cm cal, b&b
	3	Picea omorika	Siberian Spruce	4.0m ht
	1	Quercus garryana	Garry Oak	5.0cm cal, b&b
	3	Tsuga canadensis	Canadian Hemlock	5.0m ht
	2	Zelkova serrata	Japanese Zelkova	5.0cm cal, b&b
	0			
		ORNAMENTAL:		
Brs	16	Brachyglottis 'sunshine'	Brachyglottis 'sunshine'	#3 pot
Cht	15	Choisya ternata	Mexican Orange	#2 pot
Ci	37	Cistus x corbariensis	Rock Rose	#2 pot
Hto	37	Hebe topiaria	Topiarist's hebe	#1 pot
Lwr	99	Leucothoe walteri 'Rainbow'	Rainbow Leucothoe	#3 pot
Ljt	40	Ligustrum japonicum 'Texanum'	Waxleaf Privet	#3 pot
Мус	5	Myrica californica	Pacific Wax Myrtle	#3 pot
Pcu	33	Prostanthera cuneata	Mint Bush	#1 pot
Rhc	12	Rhododendron spp.	Large Rhododendron	Min 5' ht, b+b
	0			
		PERENNIALS & VINES:		
Ca	9	Clematis armandii	Evergreen Clematis	#2 pot
Cme	9	Clematis montana 'Elizabeth'	Anemone Clematis	#2 pot
Hdo	8	Hemerocallis 'Stella de Oro'	Dwarf Yellow Daylily	#1 pot
Lsp	9	Liatris spicata	Spiked Gayfeather	#1 pot
Lim	8	Liriope muscari	Lily turf	#1 pot
Pq	3	Parthenocissus quinquefolia	Virginia Creeper	#2 pot
Rf	9	Rudbeckia fulgida	Black-Eyed Susan	#1 pot
• ••	J		a, c.a _aaaa	por

		NATURALIZED:		
Csc	14	Cornus sericea	Red-twig Dogwood	#1 pot
Lp	7	Lonicera pileata	Privet Honeysuckle	#2 pot
Ma	20	Mahonia aquifolium	Oregon Grape	#2 pot
Po	2	Physocarpus opulifolius 'Diablo'	Diablo Ninebark	#5 pot
Pm	21	Polystichum munitum	Sword Fern	#1 pot
Rs	5	Ribes sanguineum	Red Flowering Currant	#3 pot
Sa	18	Symphoricarpos alba	Snowberry	#1 pot
	0			
		RAINGARDEN:		
Aff	44	Athyrium filix-femina var. cyclosorum	Northwestern Lady Fern	#1 pot
Cm	39	Carex morrowii 'Ice Dance'	Japanese Sedge Grass	Sp3
Co	241	Carex obnupta	Slough Sedge	#1 pot
Ctp	49	Carex testacea 'Prairie Fire'	Prairie Fire Sedge	Sp3
Gsh	74	Gaultheria shallon	Salal	#1 pot
ls	83	Iris tenax	Oregon Iris	#1 pot
Jcg	49	Juncus 'Carmen's Grey'	Soft Common Rush	Sp3
Lim	49	Liriope muscari	Lily turf	#1 pot
Ма	9	Mahonia aquifolium	Oregon Grape	#2 pot
Pm	27	Polystichum munitum	Sword Fern	#1 pot
Sco	21	Schizostylis coccinea 'Oregon Sunset'	Crimson Flag	#1 pot
Vo	10	Vaccinium ovatum 'Thunderbird'	Evergreen Huckleberry	#3 pot
Vbo	9	Verbena bonariensis	Tall Verbena	#1 pot
	0			
		BOULEVARD:		
Brs	34	Brachyglottis 'sunshine'	Brachyglottis 'sunshine'	#3 pot
Cs	36	Cistus salvifolius	Sageleaf Rock Rose	#1 pot
Lp	50	Lonicera pileata	Privet Honeysuckle	#2 pot
-	0	-	-	
		BOULEVARD RAIN GARDEN:		
Jcg	163	Juncus 'Carmen's Grey'	Soft Common Rush	Sp3
Lp	20	Lonicera pileata	Privet Honeysuckle	#2 pot
	0			

**PLANTING NOTES** 

1. Plant quantities and species may change between issuance of DP

and Construction due to plant availability and design changes. 2. Offsite trees in municipal lands to be coordinated with City of Victoria Parks staff for species, size, and final planting locations, prior to

(4) proposed trees will be designated as bylaw protected trees. This will be shown on the Building Permit drawings.

0 5 10 15 m

**DRAWING NOTES** 1. DO NOT SCALE DRAWING: Verify all property lines and existing

structures/vegetation to remain, prior to commencing work.

2. All plan dimensions in metres and all detail dimensions in millimetres. 3. Plant quantities on Plans shall take precedence over plant list

quantities.

4. Contractor to confirm location and elevation of all existing services and utilities prior to start of construction.

5. Provide layout of all work for approval by Landscape Architect prior to

proceeding with work.

Contractor to provide irrigation system for all planters and green roofs to current IIABC Standards and Contract Specifications.

8. Plant material, installation and maintenance to conform to the current

7. Landscape installation to carry a 1 year warranty from date of acceptance.

edition of the Canadian Landscape Standard. 9. General Contractor and/or sub-contractors are responsible for all costs related to production and submission to consultant of all landscape

as-built information including irrigation. 10. Tree protection fencing, for existing trees, to be installed prior to commencement of all site work

NOT FOR CONSTRUCTION



Rev. Sum. Response 2018.05.04

ARAGON PROPERTIES LTD. 201-1628 WEST 1ST AVENUE VANCOUVER, BC

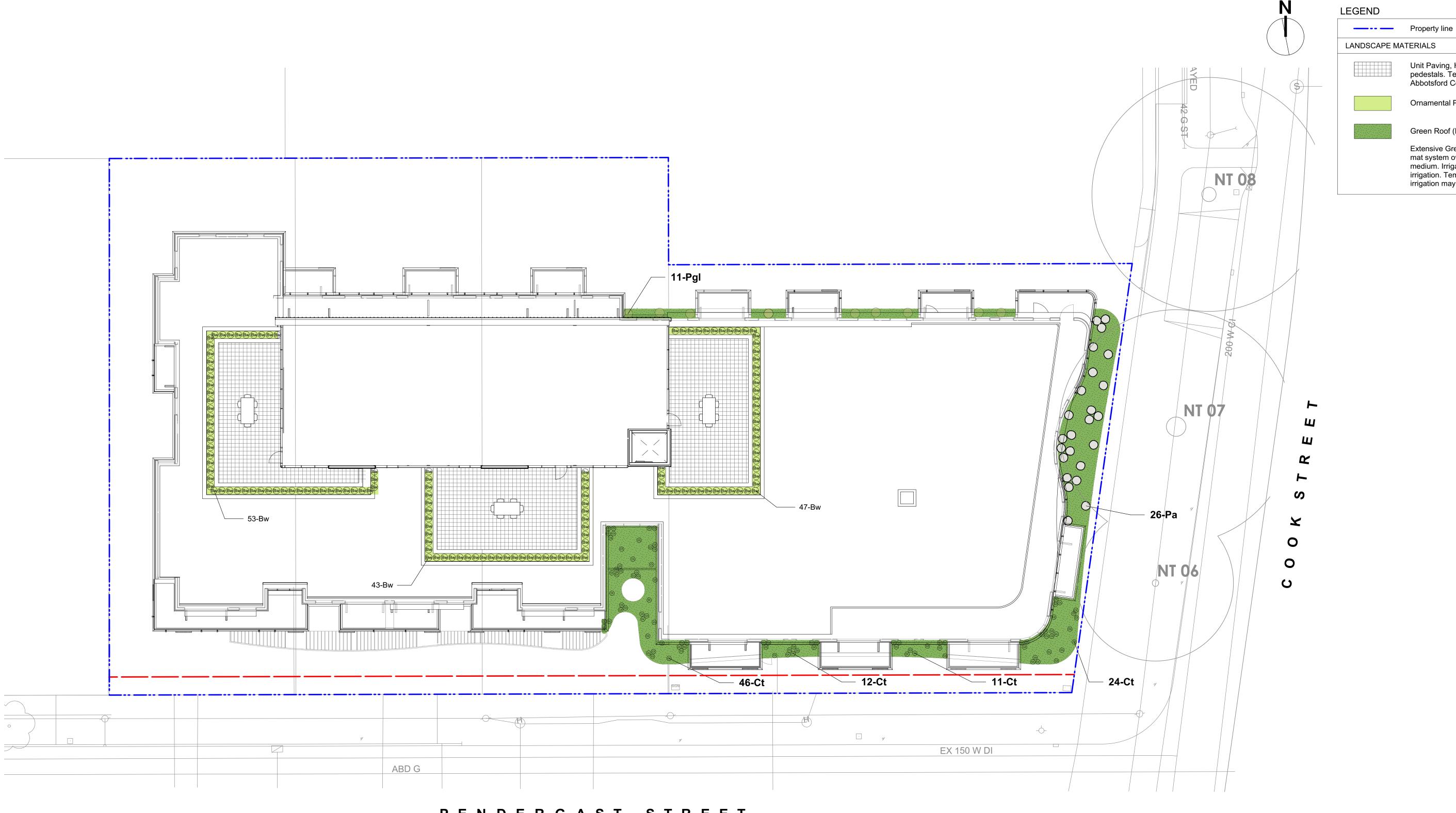
328 COOK STREET 324/238 COOK STREET & 1044-1054 PENDERGAST STREET VICTORIA, BC

sheet title

Planting Plan and Plant List

project no.		117.28
scale	1:150	@ 24"x36"
drawn by		MDI
checked by		SM/PdG
revison no.	sheet no.	

L3.01



### PENDERGAST STREET

Sym	Qty	Botanical Name	Common Name	Schd. Size / Plant Spacing
		SHRUBS:		
Bw	143	Buxus microphylla 'Winter Gem'	Littleleaf Boxwood	#1 pot
Ct	81	Carex testacea	Orange Sedge	#1 pot
Pa	26	Pennisetum alopecuroides 'Hameln'	Fountain Grass	#1 pot
Pgl	11	Polystichum glycyrrhiza	Licorice Fern	Sp3

#### **PLANTING NOTES**

- 1. Plant quantities and species may change between issuance of DP and Construction due to plant availability and design changes.
- 2. Green roof to be proprietary sedum mat system interdispersed with grass species, ferns and bulbs.

Unit Paving, HydraPressed slab on pedestals. Texada style pavers by

Ornamental Planting Area

irrigation may be required.

Green Roof (L2 CRU Canopy)

Abbotsford Concrete. Colour: Charcoal.

Extensive Green Roof Area - Prevegetated mat system over 100 mm depth growing medium. Irrigated with drip OR spray head

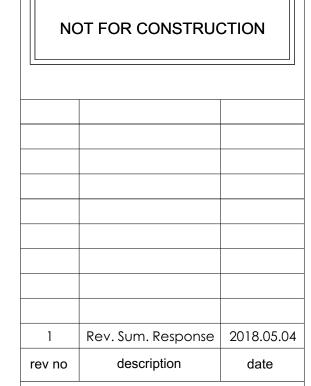
irrigation. Temporary establishment

### **DRAWING NOTES**

- 1. DO NOT SCALE DRAWING: Verify all property lines and existing
- structures/vegetation to remain, prior to commencing work.

  2. All plan dimensions in metres and all detail dimensions in millimetres.

  3. Plant quantities on Plans shall take precedence over plant list
- quantities. 4. Contractor to confirm location and elevation of all existing services and
- utilities prior to start of construction. 5. Provide layout of all work for approval by Landscape Architect prior to
- proceeding with work.
- Contractor to provide irrigation system for all planters and green roofs to current IIABC Standards and Contract Specifications.
- 7. Landscape installation to carry a 1 year warranty from date of
- acceptance. 8. Plant material, installation and maintenance to conform to the current
- edition of the Canadian Landscape Standard. 9. General Contractor and/or sub-contractors are responsible for all costs related to production and submission to consultant of all landscape
- as-built information including irrigation. 10. Tree protection fencing, for existing trees, to be installed prior to commencement of all site work





ARAGON PROPERTIES LTD. 201-1628 WEST 1ST AVENUE

VANCOUVER, BC

328 COOK STREET 324/238 COOK STREET & 1044-1054 PENDERGAST STREET VICTORIA, BC

sheet title

Roof and Rooftop Landscape and Planting Plan

1	L	3.02
revison no.	sheet no.	
checked by		SM/PdG
drawn by		MDI
scale	1:150	@ 24"x36"
project no.		117.28

