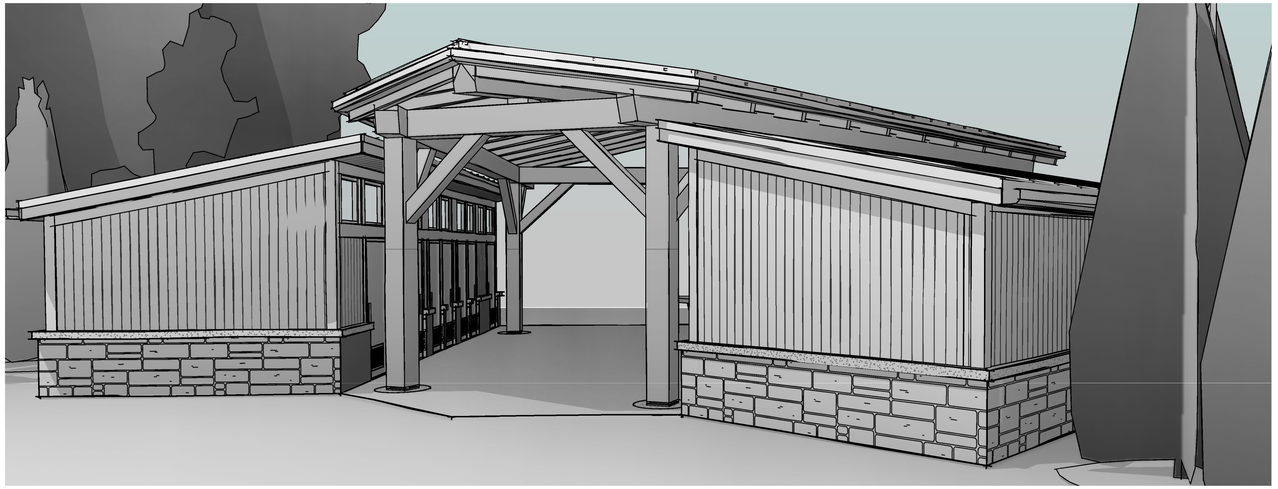

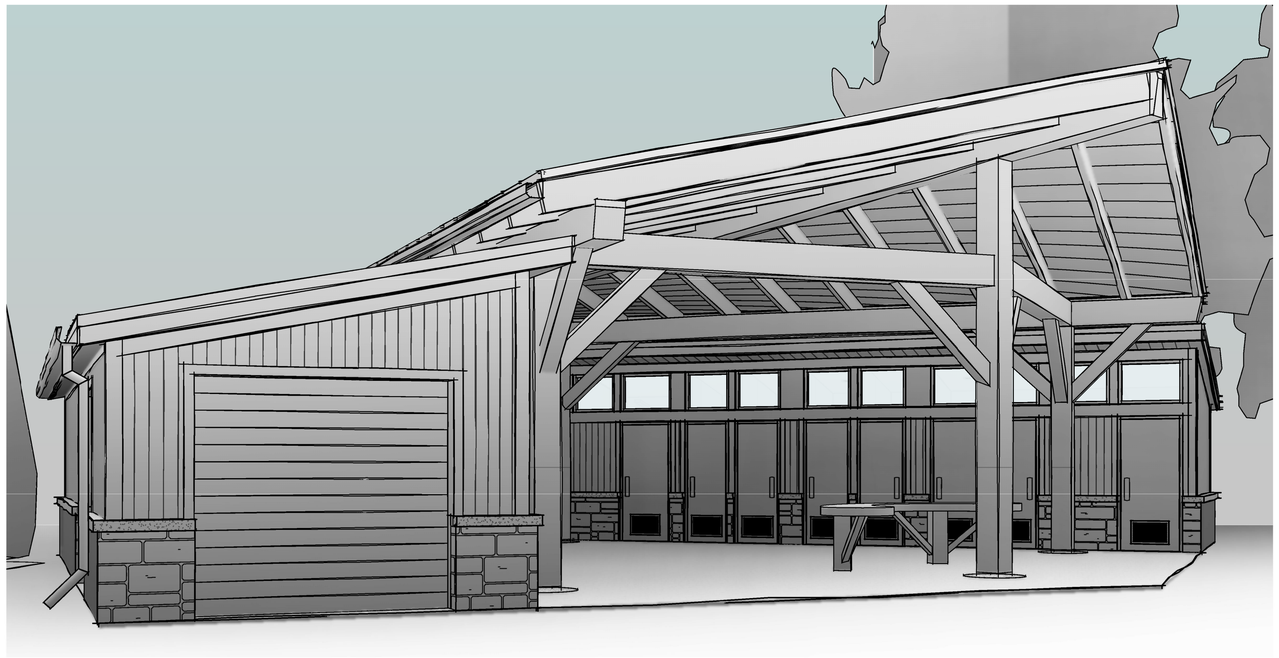

SHEET LIST	
SHEET #	**SHEET NAME**
L1	EXISTING CONDITIONS AND REMOVALS PLAN
L2	LAYOUT, GRADING AND ELECTRICAL SITE PLAN
L3	SITE DETAILS
L4	PLANTING PLAN
A1	REFERENCE SHEET
A2	LIFE SAFETY PLAN & NBC MATRIX
A3	FLOOR PLAN
A5	REFLECTED CEILING PLAN & ROOM FINISH SCHEDULE
A6	BUILDING ELEVATIONS
A7	BUILDING ISOMETRICS
A8	BUILDING SECTIONS
A9	SECTION DETAILS
A10	SECTION DETAILS
A11	PLAN DETAILS
A12	INTERIOR ELEVATIONS & MILLWORK DETAILS
A13	DOOR & WINDOW SCHEDULE
S1	STRUCTURAL - GENERAL NOTES AND DESIGN NOTES
S2	STRUCTURAL - FOUNDATION PLANS & DETAILS
S3	STRUCTURAL - SLAB ON GRADE PLANS & DETAILS
S4	STRUCTURAL - LINTEL & ROOF FRAMING PLANS
S5	STRUCTURAL - TIMBER FRAME CANOPY LAYOUT AND DETAILS
M1	MECHANICAL - LEGEND, GENERAL NOTES, SCHEMATICS AND SCHEDULES
M2	MECHANICAL - PLUMBING & DRAINAGE AND HVAC PLANS
E1	ELECTRICAL LEGEND AND GENERAL NOTES
E2	ELECTRICAL POWER AND LIGHTING PLAN
E3	ELECTRICAL DETAILS & SCHEDULES

60576731

Parcs Canada Parks Canada

Canadä

CYPRUS LAKE - HEAD OF TRAILS RENEWAL

CYPRUS LAKE ROAD, BRUCE PENINSULA
NATIONAL PARK, TOBERMORY, ONTARIO CANADA

ISSUED FOR TENDER 2018-08-16

ARCH D 24" x 36"

Approved: RT

Checked: AD

Designer: JA

Project Management Initials:

Last Plotted: 8/16/2018 10:43:15 AM

Filename: C:\Users\abelaj\Documents\60576731 - Head of Trails - CF 2017_Joseph.Abela@aecom.com.rvt

EXISTING CAMPSITE

EXISTING AGGREGATE EDGE
VEGETATION REMOVAL BY
PARKS CANADA

PROPOSED WASHROOM
BUILDING FOOTPRINT

EXISTING
AGGREGATE

EXISTING VEGETATION TO
BE SELECTIVELY PRUNED
BY PARKS CANADA

EXISTING INFORMATION
BOARDS TO BE
RELOCATED BY PARKS
CANADA

EXISTING PICNIC
SHELTER AND
CONCRETE PAVING
TO BE
PROTECTED DURING
CONSTRUCTION

EXISTING WATER
CONNECTION
LOCATION
APPROXIMATE

REMOVE GRANULAR BASE MATERIAL
TO 450mm BELOW EXISTING GRADE

EXISTING BUILDING TO BE DEMOLISHED
-ALL MATERIALS TO BE LOADED, HAULED, AND DISPOSED OF OFF SITE
-SEPTIC TANK AND RELATED EXISTING MECHANICAL SYSTEMS TO BE
REMOVED AND DISPOSED OF OFF SITE
-SEPTIC TANK TO BE PUMPED OUT BY PARKS CANADA PRIOR TO REMOVAL

EXISTING SIGN TO BE SALVAGED BY
PARKS CANADA FOR REUSE.

TREE PROTECTION

LIMIT OF CONTRACT/DISTURBANCE
APPROXIMATE

EXISTING VEGETATION TO REMAIN AND
PROTECT DURING CONSTRUCTION

EXISTING WOOD BOLLARD TO BE
REMOVED.

EXISTING WOOD BOLLARD TO BE
PROTECTED DURING CONSTRUCTION.

EXISTING NAIL CONTROL POINT TO BE
MAINTAINED FOR LAYOUT PURPOSES.

EXISTING SIGN TO BE REMOVED
BY PARKS CANADA FOR REUSE, TYP.

EXISTING ROCKS TO BE SALVAGED
BY PARKS CANADA FOR REUSE.

CONTRACTOR TO CUT EXISTING ASPHALT
PAVING WITH DIAMOND BLADE SAW TO
CREATE SMOOTH CONTINUOUS ARC AS
SHOWN. SEE LAYOUT PLAN FOR RADIUS.

EXISTING ASPHALT TO BE
REMOVED AND HAULED OFFSITE.

EXISTING SIGN TO BE REMOVED
BY PARKS CANADA FOR REUSE,
TYP.

EXISTING SIGN TO BE REMOVED
BY PARKS CANADA FOR REUSE,
TYP.

EXISTING
ASPHALT
PARKING LOT

EXISTING
ASPHALT ROAD

EXISTING VEGETATION TO BE ASSESSED WITH PARKS CANADA
DEPARTMENTAL REPRESENTATIVE TO DETERMINE WHAT LEVEL
OF CLEARING NEEDS TO OCCUR TO INSTALL PUMP OUT PIPING

LEGEND:

- APPROXIMATE LIMIT OF CONSTRUCTION/DISTURBANCE
- EXISTING BUILDING REMOVALS
- ASPHALT REMOVALS, FULL DEPTH
- REGRADING REQUIRED
- VEGETATION REMOVAL BY PARKS CANADA
- EXISTING VEGETATION TO REMAIN AND TO BE PROTECTED DURING CONSTRUCTION
- GRANULAR REMOVAL AND SALVAGE FOR REUSE
- x 189.722 EXISTING SPOT ELEVATIONS
- —190.50— EXISTING CONTOUR
- TREE PROTECTION FENCE
- TEST PIT DIG LOCATION CONDUCTED BY PARKS CANADA

NOTE:
1.LIMITS OF REMOVALS TO BE CONFIRMED ON SITE
2.PROVIDE A 2.0m ± CLEARANCE BETWEEN BUILDING FOOTPRINT AND EXISTING VEGETATION

DRAWING NO.	DRAWING NAME

REFERENCE DRAWINGS

NO.	DATE	DESCRIPTION	Drawn by Dessine par	Approved Approuve
1	2018-08-16	ISSUED FOR TENDER	PF/AH	RB

REVISIONS

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Parcs Canada / Parks Canada

Canada

PARKS CANADA
EASTERN ONTARIO FIELD UNIT

Type of Record / Type d'enregistrement

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BRUCE PENINSULA NATIONAL PARK
HEAD OF TRAILS

Drawing title / Titre du dessin

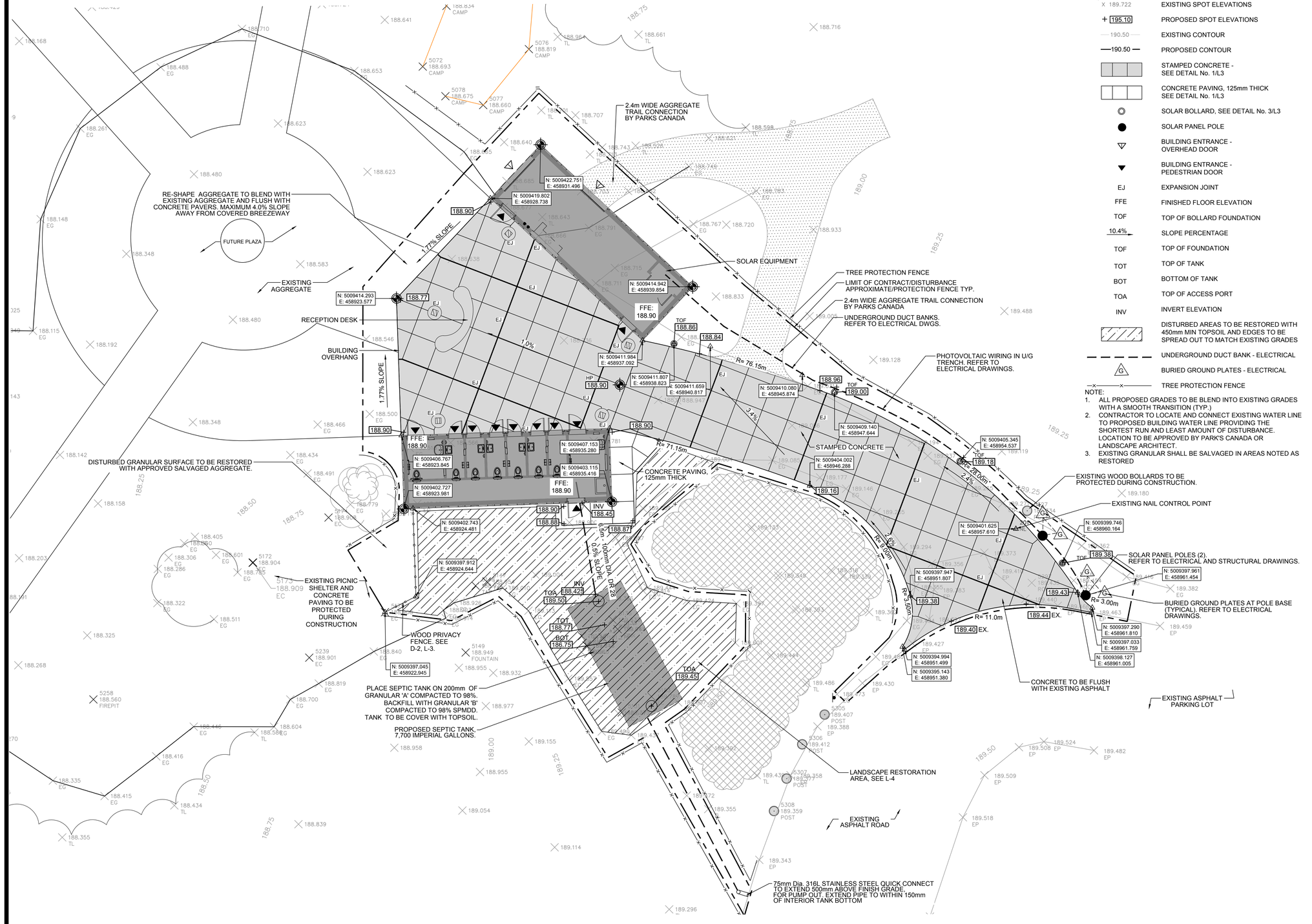
EXISTING CONDITIONS AND REMOVALS PLAN

Plot Scale / Echelle
1:100 (Arch D 24x36 Plot Size)

Drawn by/ Dessine par: PF — Date: 2018-06-01
Field Recording by / Releve-Temoin par — Date:
Approved by / Approuve par: RB — Date: 2018-06-01
Checked by/ Verifie par: RB — Date: 2018-06-01

Project No./ No. du projet: 60576731 | Asset No. | Sheet No./ Feuille No.: L1

Drawing Re No./No. du Dessin



LEGEND:

- APPROXIMATE LIMIT OF CONSTRUCTION/DISTURBANCE
- N: 5008665.313 E: 458916.915 — LAYOUT COORDINATES
- X 189.722 — EXISTING SPOT ELEVATIONS
- + 195.10 — PROPOSED SPOT ELEVATIONS
- 190.50 — EXISTING CONTOUR
- —190.50— PROPOSED CONTOUR
- STAMPED CONCRETE - SEE DETAIL No. 1/L3
- CONCRETE PAVING, 125mm THICK SEE DETAIL No. 1/L3
- SOLAR BOLLARD, SEE DETAIL No. 3/L3
- SOLAR PANEL POLE
- BUILDING ENTRANCE - OVERHEAD DOOR
- BUILDING ENTRANCE - PEDESTRIAN DOOR
- EJ — EXPANSION JOINT
- FFE — FINISHED FLOOR ELEVATION
- TOF — TOP OF BOLLARD FOUNDATION
- 10.4% — SLOPE PERCENTAGE
- TOF — TOP OF FOUNDATION
- TOT — TOP OF TANK
- BOT — BOTTOM OF TANK
- TOA — TOP OF ACCESS PORT
- INV — INVERT ELEVATION
- DISTURBED AREAS TO BE RESTORED WITH 450mm MIN TOPSOIL AND EDGES TO BE SPREAD OUT TO MATCH EXISTING GRADES
- UNDERGROUND DUCT BANK - ELECTRICAL
- G — BURIED GROUND PLATES - ELECTRICAL
- TREE PROTECTION FENCE

NOTE:
1. ALL PROPOSED GRADES TO BE BLEND INTO EXISTING GRADES WITH A SMOOTH TRANSITION (TYP.)
2. CONTRACTOR TO LOCATE AND CONNECT EXISTING WATER LINE TO PROPOSED BUILDING WATER LINE PROVIDING THE SHORTEST RUN AND LEAST AMOUNT OF DISTURBANCE. LOCATION TO BE APPROVED BY PARK'S CANADA OR LANDSCAPE ARCHITECT.
3. EXISTING GRANULAR SHALL BE SALVAGED IN AREAS NOTED AS RESTORED

DRAWING NO.	DRAWING NAME

REFERENCE DRAWINGS

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BRUCE PENINSULA NATIONAL PARK
HEAD OF TRAILS

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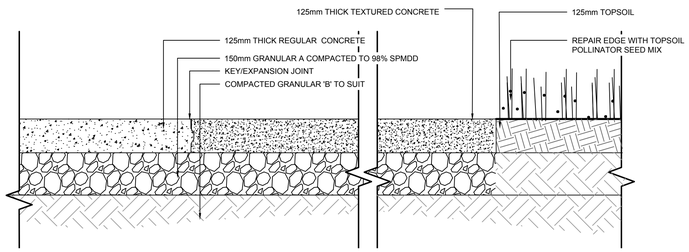
LAYOUT, GRADING AND ELECTRICAL SITE PLAN

Plot Scale / Echelle
1:100 (Arch D 24x36 Plot Size)

Drawn by/ Dessine par	Date
PF	2018-06-01
Field Recording by / Releve-Temoin par	Date
Approved by / Approuve par: RB	Date: 2018-06-01
Checked by/ Verifie par: RB	Date: 2018-06-01

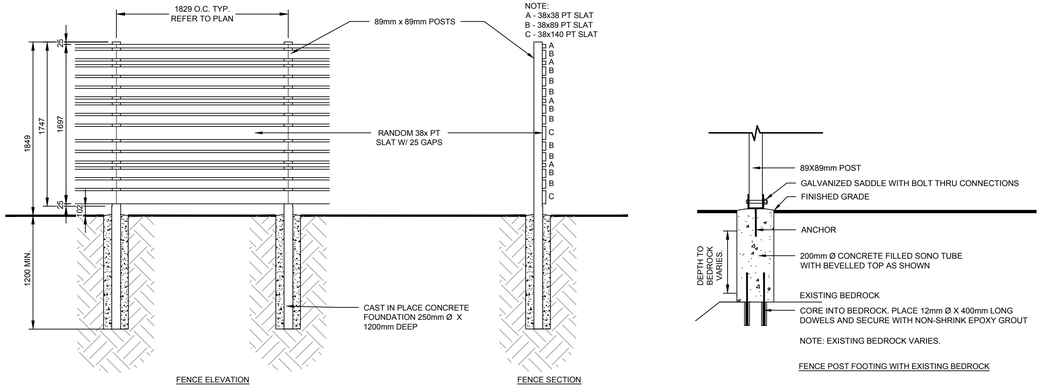
Project No./ No. du projet: 60576731 | Asset No. | Sheet No./ Feuille No.: L2

Drawing Re No./No. du Dessin



DETAIL STAMPED/REGULAR 125mm THICK CONCRETE 1

NTS

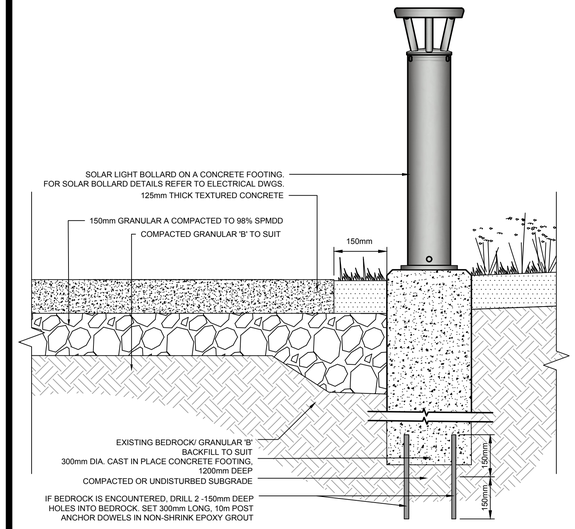


NOTE: EXISTING BEDROCK VARIES.

FENCE POST FOOTING WITH EXISTING BEDROCK

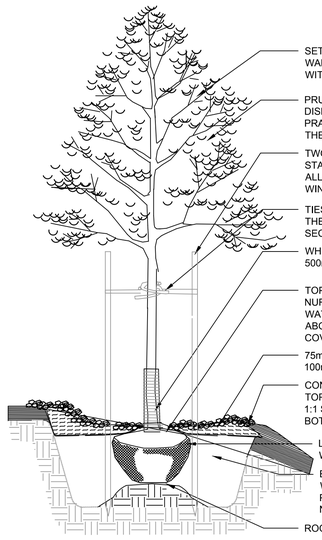
DETAIL WOOD FENCE SCREEN AT AMENITY AREA 2

NTS



DETAIL SOLAR LIGHT BOLLARD DETAIL 3

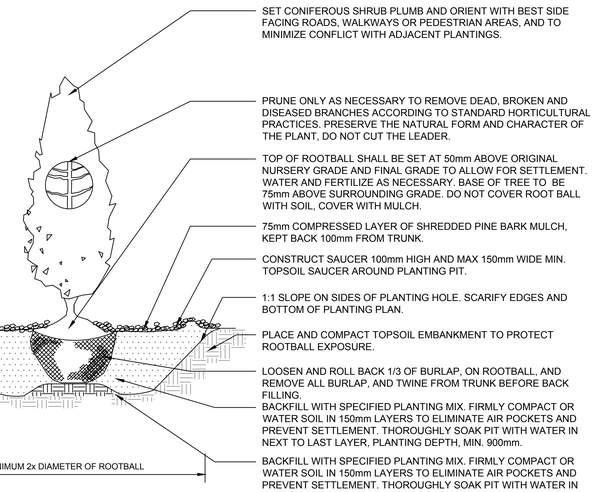
SCALE 1:10



NOTE: CONTRACTOR SHALL REMOVE TREE STAKES AND TIES ONE YEAR AFTER PLANTING, OR AT THE END OF THE WARRANTY PERIOD IF STAKES ARE STILL REQUIRED.

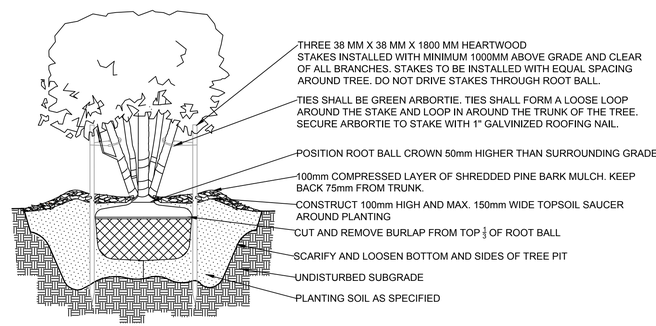
DETAIL DECIDUOUS TREE PLANTING 4

N.T.S.

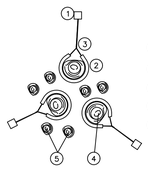


DETAIL CONIFEROUS SHRUB PLANTING 5

N.T.S.



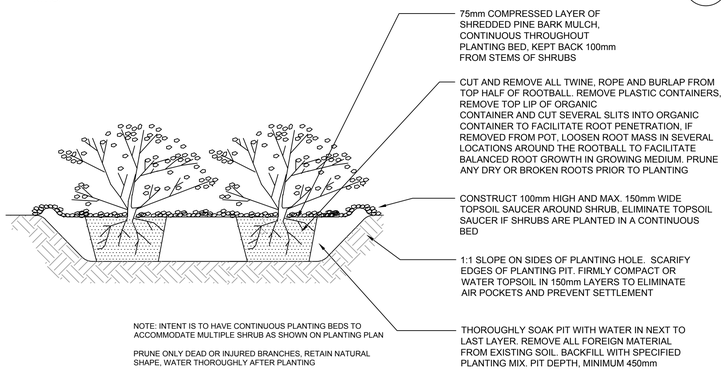
NOTES:
- CONTRACTOR TO SELECT 3 LARGEST STEMS ON EACH MULTISTEM TREE TO STAKE AS PER DETAIL.
- TIE BACK BRANCHES AS REQUESTED TO AVOID DAMAGE, REMOVE TIES IMMEDIATELY AFTER INSTALLATION
- GUYS TO BE SET ABOVE FIRST BRANCH
- IMMEDIATELY AFTER PLANTING SATURATE ROOT BALL WITH WATER
- FILL AND TAMP VOIDS AROUND BALL WITH TOPSOIL
- WATER AGAIN AND REPEAT



1. STAKE
2. GREEN ARBOUTIE
3. GUYING CABLE
4. LARGE LEADER TO BE STAKED (MINIMUM 3 LEADERS PER TREE)
5. SMALL LEADER NOT TO BE STAKED

DETAIL MULTI-STEM DECIDUOUS SHRUB PLANTING 6

SCALE 1:10



NOTE: INTENT IS TO HAVE CONTINUOUS PLANTING BEDS TO ACCOMMODATE MULTIPLE SHRUB AS SHOWN ON PLANTING PLAN

PRUNE ONLY DEAD OR INJURED BRANCHES. RETAIN NATURAL SHAPE, WATER THOROUGHLY AFTER PLANTING

DETAIL DECIDUOUS SHRUB PLANTING 7

SCALE 1:10

DRAWING NO.	DRAWING NAME

REFERENCE DRAWINGS

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PARKS CANADA
EASTERN ONTARIO FIELD UNIT

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BRUCE PENINSULA NATIONAL PARK
HEAD OF TRAILS

Drawing title / Titre du dessin

SITE DETAILS

Plot Scale / Echelle
AS NOTED (Arch D 24x36 Plot Size)

Drawn by/ Dessine par	Date
PF	2018-06-01
Field Recording by / Releve-Temoin par	Date
Approved by / Approuve par: RB	Date: 2018-06-01
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Project No./ No. du projet: 60576731 | Asset No.
Drawing Re No./No. du Dessin

Sheet No./ Feuille No. L3

LEGEND:

- APPROXIMATE LIMIT OF CONSTRUCTION/DISTURBANCE
- 190.50 EXISTING CONTOUR
- 190.50 PROPOSED CONTOUR
- STAMPED CONCRETE - SEE DETAIL No. 1/L3
- CONCRETE PAVING, 125mm THICK SEE DETAIL No. 1/L3
- SOLAR BOLLARD, SEE DETAIL No. 3/L3
- SOLAR PANEL POLE
- BUILDING ENTRANCE - OVERHEAD DOOR
- BUILDING ENTRANCE - PEDESTRIAN DOOR
- DISTURBED AREAS TO BE RESTORED WITH 450mm TOPSOIL AND EDGES TO BE SPREAD OUT TO MATCH EXISTING GRADES
- UNDERGROUND DUCT BANK - ELECTRICAL
- TREE PROTECTION FENCE
- PROPOSED CONIFEROUS PLANTING
- PROPOSED DECIDUOUS PLANTING

KEY	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE AT INSTALLATION			ROOT CONTAINMENT	PLANT SPACING	REMARKS
				CALIPER [mm]	HEIGHT [cm]	SPREAD [cm]		[m]	
Ac	*Amelanchier canadensis*	Serviceberry	5	-	120	-	POTTED OR B&B	AS SHOWN	
Ar	*Acer rubrum*	Red Maple	2	50	-	-	W.B.	AS SHOWN	
cr	*Cornus racemosa*	Grey Dogwood	9	-	60	-	POTTED	1.5m O.C.	
cs	*Cornus sericea*	Red Osier Dogwood	9	-	60	-	POTTED	1.5m O.C.	
To	*Thuja accidentalis*	White Cedar	13	-	150	-	POTTER OR B&B	2m O.C.	
			38						

SOURCE OF PLANT MATERIALS TO BE PROVIDED BY CONTRACTOR
WB - WIRE BASKET
3 GAL - THREE GALLON POT
B&B - BALLED AND BURLAP

DRAWING NO.	DRAWING NAME

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PLANTING PLAN

Plot Scale / Echelle
1:100 (Arch D 24x36 Plot Size)

Drawn by/ Dessine par: PF — Date: 2018-06-01
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Project No./ No. du projet: 60576731 | Asset No.
Drawing Re No./No. du Dessin
Sheet No./ Feuille No.: L4

ABBREVIATIONS

A

AT	AT
A.I.F.B.	ASPHALT IMPREGNATED FIBREBOARD
A.F.F.	ABOVE FINISHED FLOOR
A.C.T.	ACOUSTIC TILE CEILING
ALUM.	ALUMINUM
APPROX.	APPROXIMATE
A.C.W.F.D.	ACOUSTIC CORE WOOD FLUSH DOOR

B

BLOCKING	BLOCKING
BD.	BOARD
BOTT.	BOTTOM
B.E.W.	BOTTOM EACH WAY
B.L.L.	BOTTOM LOWER LAYER
BTN.	BETWEEN
B.U.L.	BOTTOM UPPER LAYER
BLDG.	BUILDING
BU	STEEL BUILT-UP (TO OWSJ)
BP	BASE PLATE

C

CB.	CATCH BASIN
c/c.	CENTRE TO CENTRE
CLC.	CLOSET
COL.	COLUMN
c/w.	COMPLETE WITH
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CO-ORD	CO-ORDINATE
CJ.	CONTROL JOINT
CRS.	COURSE

D

DIA.	DIAMETER
DIM.	DIMENSION
DCBHM	DOUBLE CATCH BASIN MANHOLE
DN.	DOWN
DWG.	DRAWING
DF	DRINKING FOUNTAIN

E

EA.	EACH
E.F.	EACH FACE
E.W.	EACH WAY
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EQ.	EQUAL
EQUIP.	EQUIPMENT
EX.	EXISTING
EXT.	EXTERIOR

F

FIN.	FINISH/FINISHED
F.E.	FIRE EXTINGUISHER
F.R.R.	FIRE-RESISTANCE RATING
F.S.	FIRE SEPARATION
FLR.	FLOOR
F.D.	FLOOR DRAIN
FND.	FOUNDATION

G

G1S	GOOD ONE SIDE
G2S	GOOD TWO SIDES
GALV.	GALVANIZED
GRAN.	GRANULAR
GYP.	GYPSUM
GWB	GYPSUM WALL BOARD

H

H.D.	HEAVY DUTY
H.M.D.	HOLLOW METAL DOOR
HORIZ.	HORIZONTAL
H.E.F.	HORIZONTAL EACH FACE
H.I.F.	HORIZONTAL INSIDE FACE
H.O.F.	HORIZONTAL OUTSIDE FACE
HR.	HOUR
HSS	HOLLOW STEEL SECTION

I

INCL.	INCLUDED
I.F.	INSIDE FACE
INSUL.	INSULATION

J

JAN.	JANITOR

L

L.C.C.	LEAD COATED COPPER

M

MH.	MANHOLE
MANUF.	MANUFACTURED
MCJ.	MASONRY CONTROL JOINT
M.O.	MASONRY OPENING
MAX.	MAXIMUM
MECH.	MECHANICAL
MTD.	MOUNTED
MEMB.	MEMBRANE
MIRR.	MIRRORED

N

NBC	NATIONAL BUILDING CODE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
No.	NUMBER

O

O.C.	ON CENTRE
OBC	ONTARIO BUILDING CODE
OSB	ORIENTED STRAND BOARD
O.D.	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OWSJ	OPEN WEB STEEL JOIST

P

PED.	PEDESTAL
PLAM.	PLASTIC LAMINATE
PLYWD.	PLYWOOD
POLY	POLYETHELENE
PREFIN.	PREFINISHED
P.T.	PRESSURE TREATED
PTD.	PAINTED
P.SF	PRESSED STEEL FRAME

Q

Q.T.	QUARRY TILE

R

RAD.	RADIUS
R.W.L.	RAIN WATER LEADER
REINF.	REINFORCED/REINFORCING
REQ'D	REQUIRED
REQ'TS.	REQUIREMENTS
R.D.	ROOF DRAIN
RM.	ROOM
R.O.	ROUGH OPENING

S

SN.	SANITARY
SC.	SAW CUT
SEP.	SEPARATION
SH.	SHELF/SHELVES
SHT.	SHEET
SIM.	SIMILAR
SPEC.	SPECIFICATION
SPF	SPRUCE PINE FIR
SQ.FT.	SQUARE FEET
S.S.	STAINLESS STEEL
STL.	STEEL
SF.	STEP FOOTING
STOR.	STORAGE
STM.	STORM
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED

T

T.J.	TIE JOIST
T.L.L.	TOP LOWER LAYER
T.O.	TOP OF
T.U.L.	TOP UPPER LAYER
TYP.	TYPICAL

U

U/G	UNDERGROUND
U/S	UNDERSIDE OF
U.N.O.	UNLESS NOTED OTHERWISE

V

V.B.	VAPOUR BARRIER
VEST.	VESTIBULE
VERT.	VERTICAL
V.E.F.	VERTICAL EACH FACE
V.I.F.	VERTICAL INSIDE FACE
V.O.F.	VERTICAL OUTSIDE FACE
VCT	VINYL COMPOSITE TILE

W

WR.	WASHROOM
W.V.	WATER VALVE
W.W.M.	WLEDED WIRE MESH
w/	WITH
W.D.	WOOD DOOR

SYMBOLS LEGEND

SHEET NUMBERS SHOWN REFER TO ARCHITECTURAL DRAWINGS UNLESS INDICATED OTHERWISE.

DENOTES: DETAIL TITLE

DENOTES DETAIL #.

DENOTES SHEET WHERE DETAIL IS DRAWN.

DENOTES SHEET WHERE DETAIL IS LOCATED.

DENOTES: BUILDING SECTION

DENOTES: WALL SECTION

DENOTES: DETAIL

DENOTES: WALL/PARTITION ASSEMBLY

WTx EXTERIOR WALL ASSEMBLIES TAG

Px INTERIOR WALL ASSEMBLIES TAG

DENOTES: CEILING TYPE

Cx

DENOTES: DOOR NUMBER

DXX

DENOTES: ELEVATION

X ARROW INDICATES VIEW

DENOTES: ROOM NAME AND NUMBER

XXX

DENOTES: EXTERIOR MATERIAL KEY NOTE

Nx

DENOTES: WINDOW NUMBER

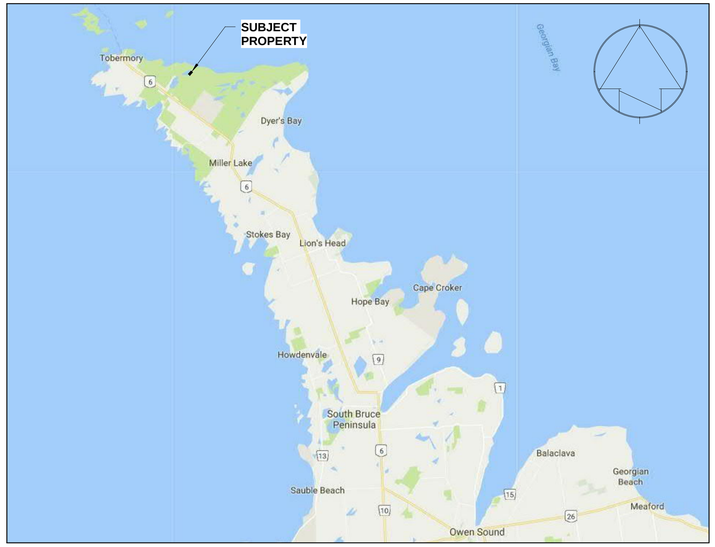
X

DENOTES: ROOM FINISH KEYNOTE

X

DENOTES: ROOF ASSEMBLY

RX



LOCATION PLAN **N.T.S.**

WALL ASSEMBLIES:

EXTERIOR STONE BASE WALL

- 90mm STONE VENEER TO MATCH EXISTING CAMPGROUND ENTRANCE BUILDING.
- 25mm AIR SPACE
- CONT. BUILDING WRAP AIR BARRIER
- 16mm T&G EXTERIOR GRADE PLYWOOD
- 38X140 WOOD STUDS SPF No.1 OR No. 2 (REFER TO STRUCTURAL) c/w DOUBLE TOP PLATE AND 140mm MINERAL WOOL BATT INSULATION (R-23)
- CONT. 6 MIL. POLY AIR & VAPOUR BARRIER
- WATER RESISTANT PRE-FINISHED INTERIOR WALL PANEL

INTERIOR PARTITION

- WATER RESISTANT PRE-FINISHED INTERIOR WALL PANEL
- 13mm WATER RESISTANT DENS SHIELD WALL BOARD
- 38X89mm WOOD STUDS AT 400mm O.C.
- 76mm SOUND ATTENUATION BATT. INSULATION WHERE INDICATED ON PLAN
- WATER RESISTANT PRE-FINISHED INTERIOR WALL PANEL

EXTERIOR WALL - WOOD SIDING

- 16mm VERTICAL WOOD SIDING BY MAIBEC COLOUR AND PROFILE T.B.D. BY PARKS CANADA ALL JOINTS TO BE SEALED AS PER MANUFACTURER'S SPECIFICATIONS
- 19mm x 90mm HORIZONTAL WOOD STRAPPING
- CONT. BUILDING WRAP AIR BARRIER
- 16mm T&G EXTERIOR GRADE PLYWOOD
- 38X140 WOOD STUDS SPF No.1 OR No. 2 (REFER TO STRUCTURAL) c/w DOUBLE TOP PLATE AND 140mm MINERAL WOOL BATT INSULATION (R-23)
- CONT. 6 MIL. POLY AIR & VAPOUR BARRIER
- WATER RESISTANT PRE-FINISHED INTERIOR WALL PANEL

INTERIOR PARTITION

- WATER RESISTANT PRE-FINISHED INTERIOR WALL PANEL
- 13mm WATER RESISTANT DENS SHIELD WALL BOARD
- 38X89mm WOOD STUDS AT 400mm O.C.
- 13mm GYPSUM BOARD (PAINTED FINISH)

FOUNDATION WALL - REFER TO STRUCTURAL

- CAST-IN-PLACE CONCRETE WALL (REFER TO STRUCTURAL)

ROOF ASSEMBLIES & CEILING:

INSULATED ROOF

- STANDING SEAM ROOFING AND SUPPORT SYSTEM
- CONT. ICE & WATER SHIELD
- 19mm PT. PLY-WOOD T&G
- WOOD ROOF JOISTS (REFER TO STRUCTURAL) C/W MINERAL WOOL BATT INSULATION (R-32) CONT. 6 MIL. POLY AIR & VAPOUR BARRIER
- 19mm T&G PINE CEILING FINISH

CANOPY ROOF

- STANDING SEAM ROOFING AND SUPPORT SYSTEM
- CONT. ICE & WATER SHIELD
- STRUCTURAL WOOD DECKING. SEE STRUCTURAL.

FLOOR ASSEMBLIES:

SLAB ON GRADE

- FLOOR FINISH - REFER TO ROOM FINISH PLAN
- 150mm CONCRETE SLAB (REFER TO STRUCTURAL)
- CONT. POLY VAPOUR BARRIER
- 50mm RIGID INSULATION (R-10)

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Parcs Canada / Parks Canada

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PARKS CANADA

Type of Record / Type d'enregistrement

Project title / Titre du projet

CYPRUS LAKE - HEAD OF TRAILS RENEWAL

Drawing title / Titre du Dessin

REFERENCE SHEET

Plot Scale / Echelle: As indicated

Drawn by/ Dessin par: JA — Date: 2018-06-05

Field Recording by/ Releve-Temoin par — Date:

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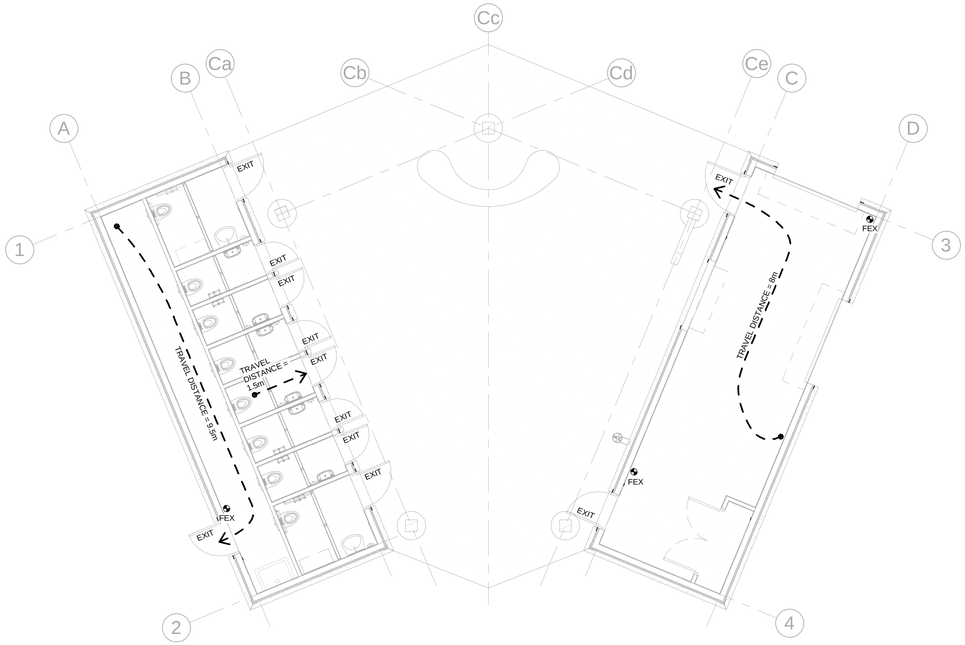
Project No./No. du projet: 60576731 — Asset No.:

Drawing Re No./No. du Dessin

Sheet No./ Feuille No.: A1



LIFE SAFETY LEGEND

- TRAVEL DISTANCE
- EXIT — REQUIRED EXIT
- FEX — FIRE EXTINGUISHER. COORDINATE W/ MECHANICAL SPECIFICATION

1 (A6 / A2) LIFE SAFETY PLAN

1 : 75

AECOM Canada Architects Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario N2P 0A4
519.650.5313

Project Name: CYPRUS LAKE CAMPGROUND - HEAD OF TRAILS WASHROOM BUILDING

Location: CYPRUS LAKE ROAD, BRUCE PENINSULA NATIONAL PARK
TOBERMORY, ONTARIO CANADA

ITEM	NATIONAL BUILDING CODE DATA MATRIX PARTS 3 & 9			NBC REFERENCE	
1	Project Description:	☒ New ☐ Addition ☐ Alteration ☐ Change of Use	☐ Part 11 11.1 to 11.4	☒ Part 3 2.1.1	☐ Part 9 9.10.2.1
2	Major Occupancy (s):	Group A , Division 2		3.1.2.1. (1)	9.10.2
3	Building Area (m2):	Existing - New 87 Total 87		1.1.3.2	1.1.3.2
4	Gross Area (m2):	Existing - New 87 Total 87		1.1.3.2	1.1.3.2
5	Number of Storeys:	Above Grade 1 Below Grade 0		3.2.1.1 & 1.1.3.2	2.1.1.3
6	Number of Streets / Fire Fighter Access:	1		3.2.2.10 & 3.2.5	9.10.19
7	Building Classification:	3.2.2.28. Group A, Division 2, 1 Storey		3.2.2.20 to .83	9.10.4
8	Sprinkler System Proposed:	☐ Entire Building ☐ Basement Only ☐ In Lieu of Roof Rating ☒ Not Required		3.2.2.20 to .83 3.2.1.5 3.2.2.17	9.10.8
9	Standpipe Required:	☐ Yes ☒ No		3.2.9	N/A
10	Fire Alarm Required:	☐ Yes ☒ No		3.2.4	9.10.18.2
11	Water Service / Supply is Adequate:	☐ Yes ☒ No		3.2.5.7	N/A
12	High Building:	☐ Yes ☒ No		3.2.6	N/A
13	Permitted Construction: / Actual Construction:	☐ Combustible ☐ Non-Combustible ☒ Both / ☒ Combustible ☐ Non-Combustible ☐ Both		3.2.2.20 to .83	9.10.6
14	Mezzanine (s) Area (m2):	N/A		3.2.1.1.(3) to (8)	9.10.4.1
15	Occupant Load Based On: / Ground Floor	☐ m2 / person ☒ design of building Occupancy: A2 Load: 12 persons Occupancy: Load: persons Occupancy: Load: persons Occupancy: Load: persons Total: Load: 12 persons		3.1.17	9.9.1.3
16	Barrier - Free Design:	☒ Yes ☐ No (explain)		3.8	9.5.2
17	Hazardous Substances:	☐ Yes ☒ No		3.3.1.2 & 3.3.1.19	9.10.1.3.(4)
18	Fire Resistance Rating (FRR)	Horizontal Assemblies FRR (Hours) / Listed Design No. or Description (SB-2) Floors: 0 HOURS Roof: 0 HOURS Mezzanine: 0 HOURS FRR of Supporting Members / Listed Design No. or Description (SB-2) Floors: 0 HOURS Roof: 0 HOURS Mezzanine: 0 HOURS		3.2.2.20 to .83 3.2.1.4	9.10.8 9.10.9
19	Other: - MAXIMUM TRAVEL DISTANCE = 30m - NO MATERIAL INCLUDING JANITORIAL SUPPLIES ARE PERMITTED TO BE STORED IN THE MECHANICAL CHASE AS PER N.B.C. - SEASONAL REMOTE BUILDING LOCATED IN A FEDERAL PARK - FIRE EXTINGUISHERS PROVIDED FOR FIRE PROTECTION.				

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Canadä

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Drawing title / Titre du Dessin
LIFE SAFETY PLAN & NBC MATRIX

Plot Scale / Echelle
As indicated

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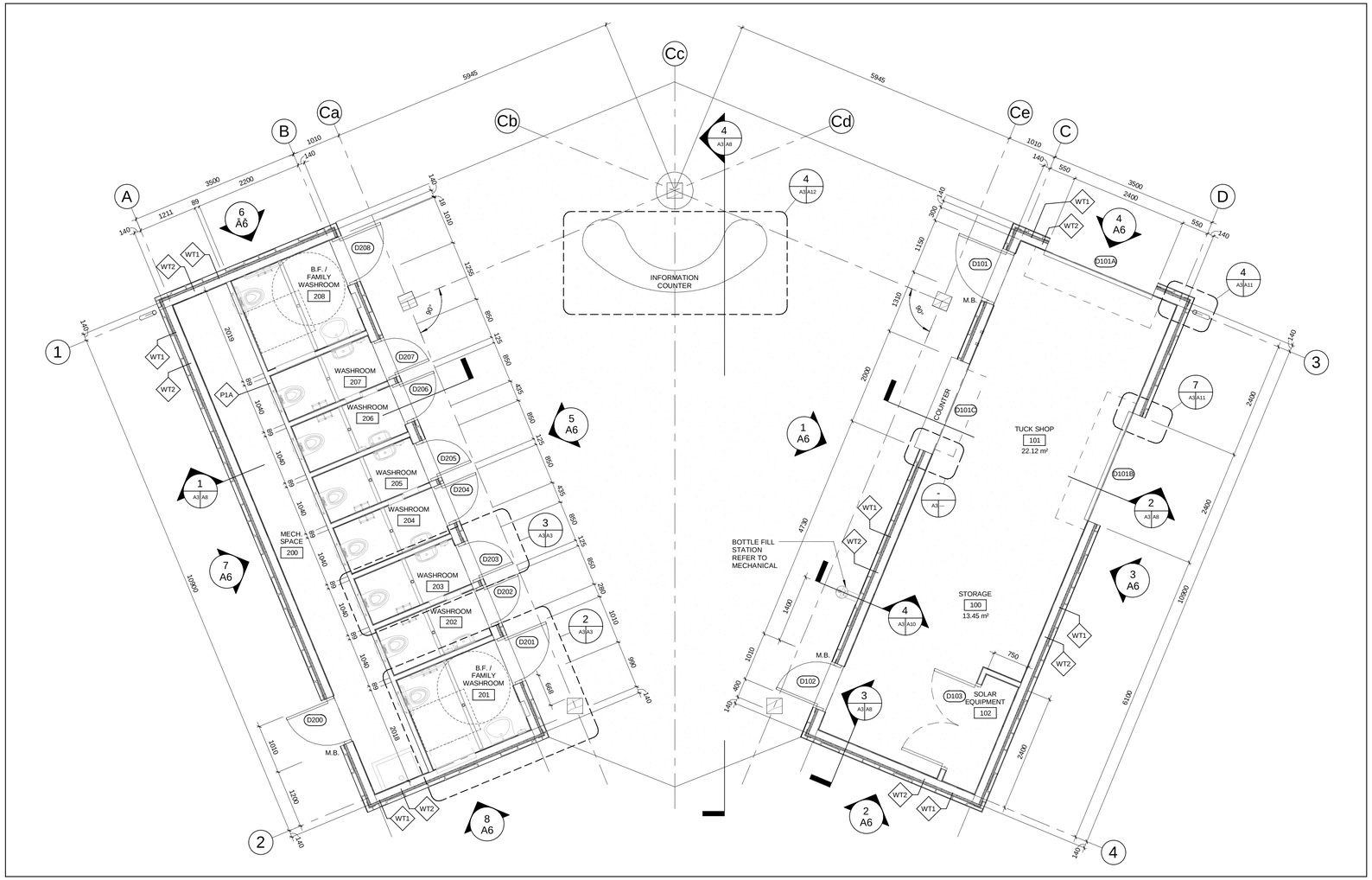
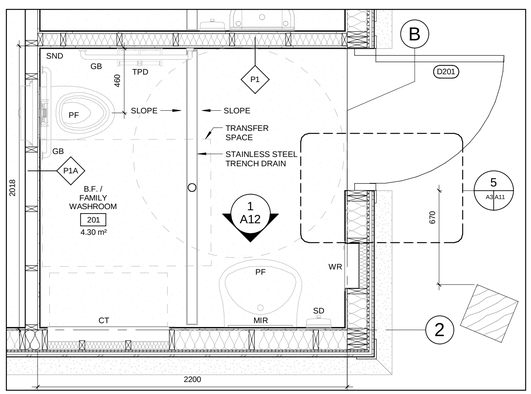
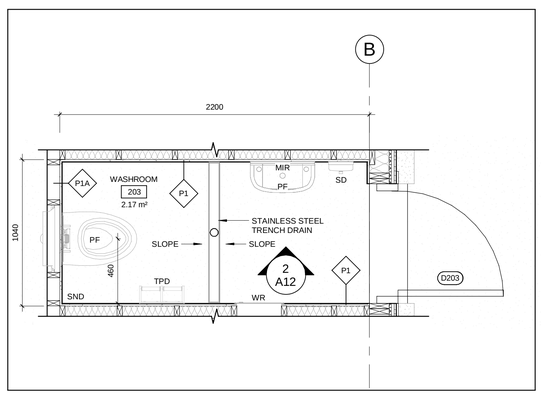
Sheet No./ Feuille No.: A2



1 FLOOR PLAN
A6 A3
1 : 50



2 ENLARGED FLOOR PLAN - B.F. / FAMILY WASHROOM
A3 A3
1 : 20



3 ENLARGED FLOOR PLAN - STANDARD WASHROOM
A3 A3
1 : 20

LEGEND:

GB	BARRIER FREE GRAB BAR. REFER TO TYP. DETAIL
TPD	TOILET PAPER DISPENSER
SND	SANITARY NAPKIN DISPOSAL
MIR	MIRROR
CT	CHANGE TABLE
WR	PAPER TOWEL & WASTE RECEPTACLE COMBO
SD	SOAP DISPENSER
PF	PLUMBING FIXTURE (REFER TO MECHANICAL)
M.B.	MECHANICAL PUSH BUTTON KEY CODE ACCESS COORDINATE WITH DOOR SCEDULE

DRAWING NO. DRAWING NAME

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FLOOR PLAN

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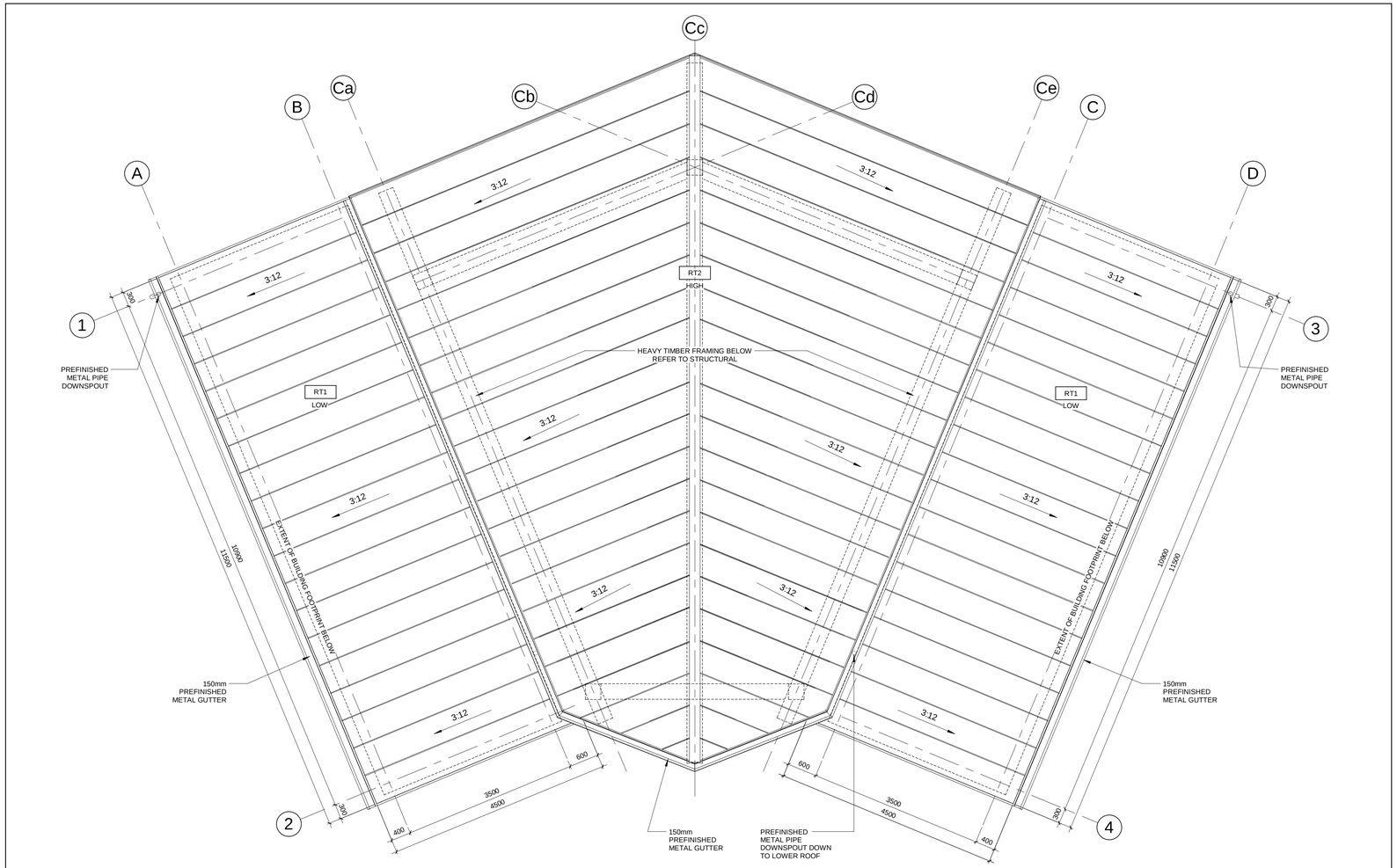
Project No./No. du projet: 60576731 — Asset No. — Sheet No./ Feuille No.: A3

Drawing Re No./No. du Dessin



1 / A6 A4 ROOF PLAN

1 : 50

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Drawing title / Titre du Dessin

ROOF PLAN

Plot Scale / Echelle: 1 : 50

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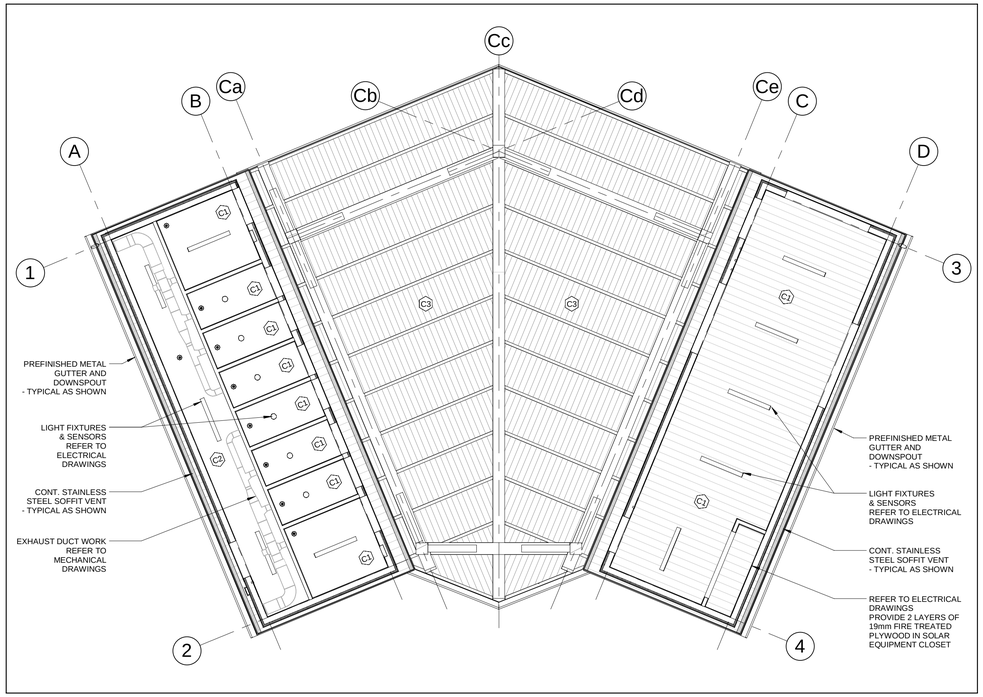
Project No./No. du projet: 60576731 — Asset No.:

Drawing Re No./No. du Dessin:

Sheet No./ Feuille No.: A4



1 / A6 A5 REFLECTED CEILING PLAN

1 : 75

LEGEND:

NOTE: ALL EXTERIOR AND INTERIOR DIMENSIONS ARE TO THE FACE OF CONCRETE OR STUD UNLESS OTHERWISE NOTED

LIGHTING CONTROL SENSOR. REFER TO ELECTRICAL

LIGHT FIXTURE. REFER TO ELECTRICAL

CEILING TYPES:

C1 — 16mm X 140mm TOUNG AND GROOVE PINE FINISHED TO BE SLECTED BY ARCHITECT

C2 — 13mm MOISTURE RESISTANT GYPSUM BOARD PAINTED FINISH

C3 — EXPOSED GLULAM STRUCTURE AND WOOD PLANK DECKING OILED FINISH

ROOM FINISH LEGEND

NOTE: ALL COLOURS, FINISHES, AND PATTERNS TO BE COORDINATED WITH THE OWNER, ARCHITECT, AND SPECIFICATIONS

WALLS	FLOOR	BASE
W1 - MOISTURE RESISTANT PRE-FINISHED WALL PANELS FULL HEIGHT C/W RIVET FASTENERS & MATCHING TRIMS	F1 - CONTINUOUS EPOXY FLOOR COATING C/W NON-SLIP TEXTURE	B1 -CONTINUOUS EPOXY COATING 150mm HIGH
W2 - PAINTED MOISTURE RESISTANT GYPSUM BOARD	F2 - EXPOSED CONCRETE SLAB	B2 -NO BASE

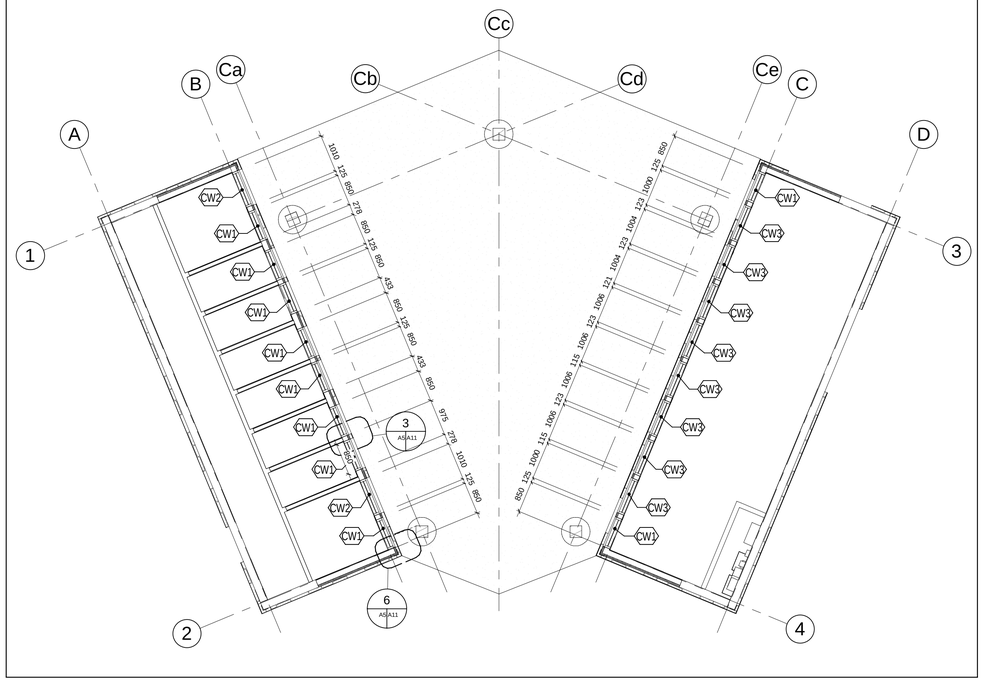
SYMBOL LEGEND

DENOTES FLOOR FINISH TRANSITION

DENOTES FLOOR DRAIN. REFER TO MECHANICAL

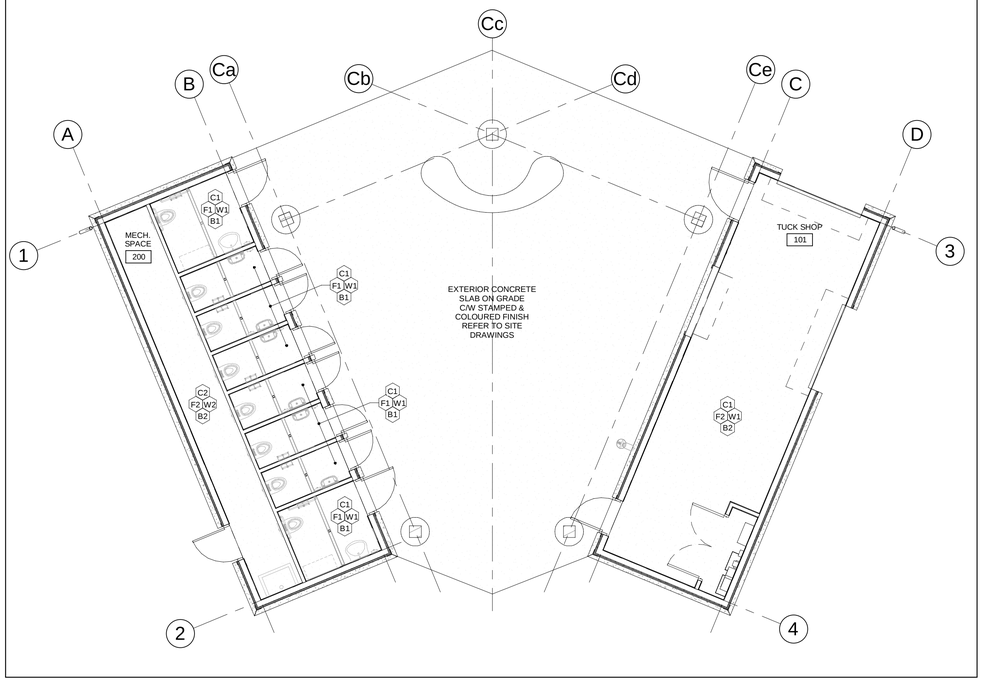
NOTES:

1. COORDINATE WITH REFLECTED CEILING PLANS.
2. FINAL FINISHES AND COLOURS TO BE SELECTED AND APPROVED BY CONSULTANT AND PARKS CANADA.



3 / A6 A5 HIGH LEVEL WINDOW PLAN

1 : 75



2 / A6 A5 ROOM FINISH PLAN

1 : 75

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CYPRUS LAKE - HEAD OF TRAILS RENEWAL

Drawing title / Titre du Dessin

REFLECTED CEILING PLAN & ROOM FINISH SCHEDULE

Plot Scale / Echelle: As indicated

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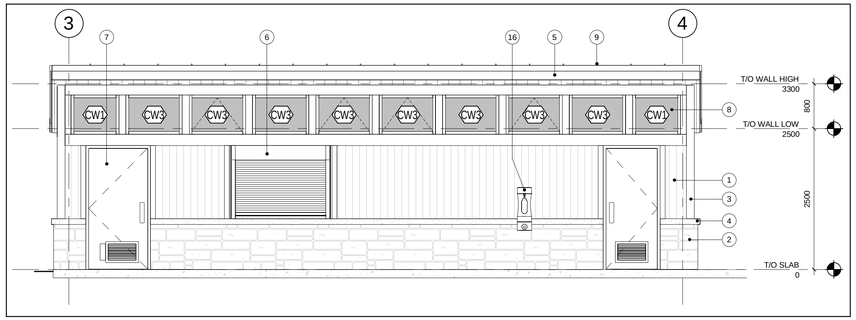
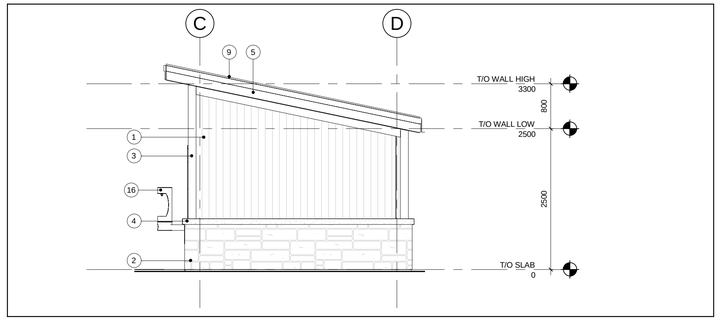
Drawing Re No./No. du Dessin:

Sheet No./ Feuille No.: A5



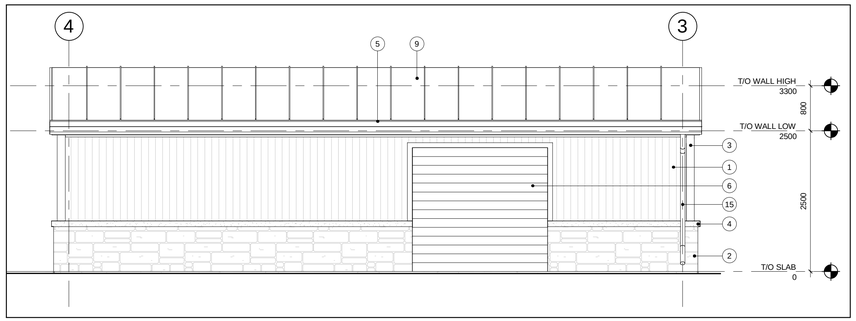
1 A3 A6 ELEVATION 1- NORTH BUILDING

1 : 50



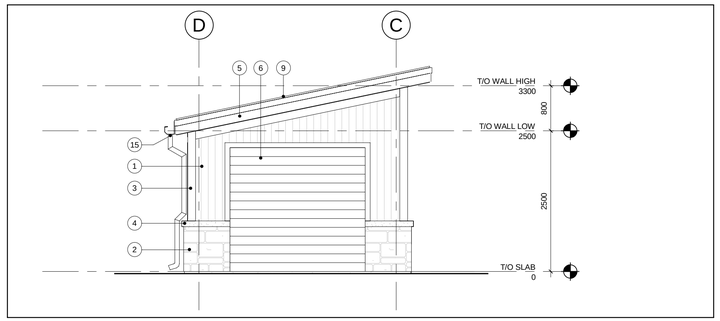
2 A3 A6 ELEVATION 2- NORTH BUILDING

1 : 50



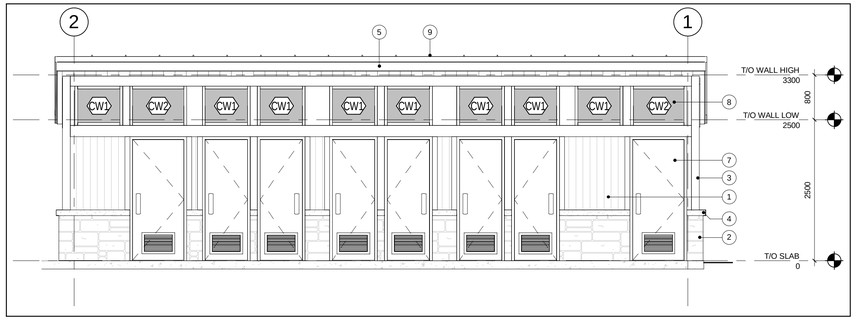
3 A3 A6 ELEVATION 3- NORTH BUILDING

1 : 50



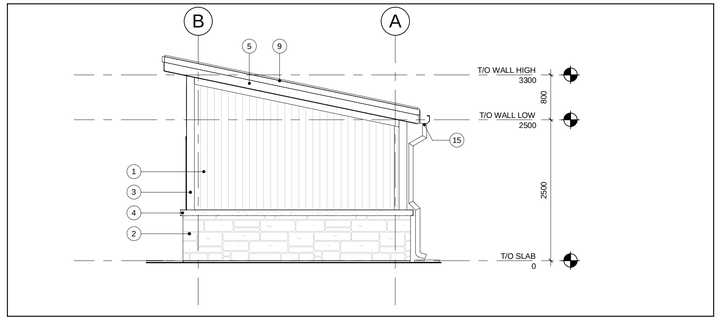
4 A3 A6 ELEVATION 4- NORTH BUILDING

1 : 50



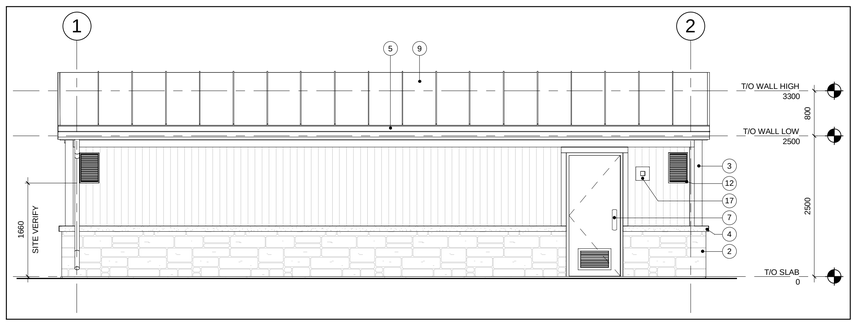
5 A3 A6 ELEVATION 1- SOUTH BUILDING

1 : 50



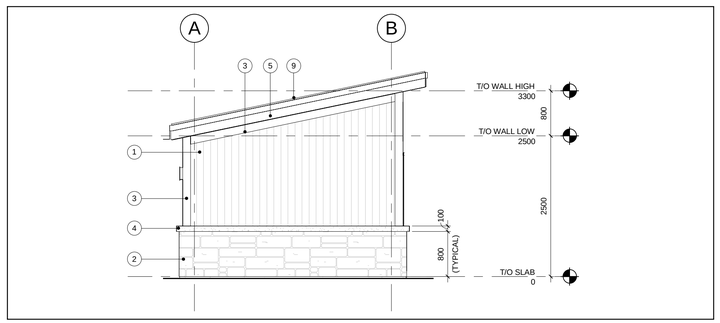
6 A3 A6 ELEVATION 3- SOUTH BUILDING

1 : 50



7 A3 A6 ELEVATION 2- SOUTH BUILDING

1 : 50



8 A3 A6 ELEVATION 4- SOUTH BUILDING

1 : 50

EXTERIOR ELEVATIONS KEYNOTES:

1. PREFINISHED VERTICAL SIDING BY MAIBEC
COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA
2. CULTURED STONE VENEER
COLOUR AND STYLE TO BE APPROVED BY AECOM AND PARKS CANADA
3. PREFINISHED MAIBEC WOOD TRIM
COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA
4. 100mm PRE-CAST CONCRETE SILL C/W WITH DRIP EDGE
COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA
5. PREFINISHED METAL FASCIA
COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA
6. INSULATED EXTERIOR COILING DOOR & FRAME.
REFER TO DOOR SCHEDULE.
7. INSULATED EXTERIOR DOOR AND FRAME
REFER TO DOOR SCHEDULE.
8. ALUMINUM INSULATED EXTERIOR WINDOW FRAME
C/W INSULATED DOUBLE PANE GLAZING
9. STANDING SEAM METAL ROOFING
COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA
12. PRE-FINISHED METAL EXHAUST LOUVRE
REFER TO MECHANICAL
13. PLUMBING VENT
REFER TO MECHANICAL
14. TAMPER-PROOF LOCKABLE HOSE BIB
REFER TO MECHANICAL
15. PRE-FINISHED DOWNSPOUT
HEAVY GAUGE DENT AND VANDAL RESISTANT
16. EXTERIOR BOTTLE FILL STATION
REFER TO MECHANICAL
17. EXTERIOR LIGHT FIXTURE
REFER TO ELECTRICAL

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BUILDING ELEVATIONS

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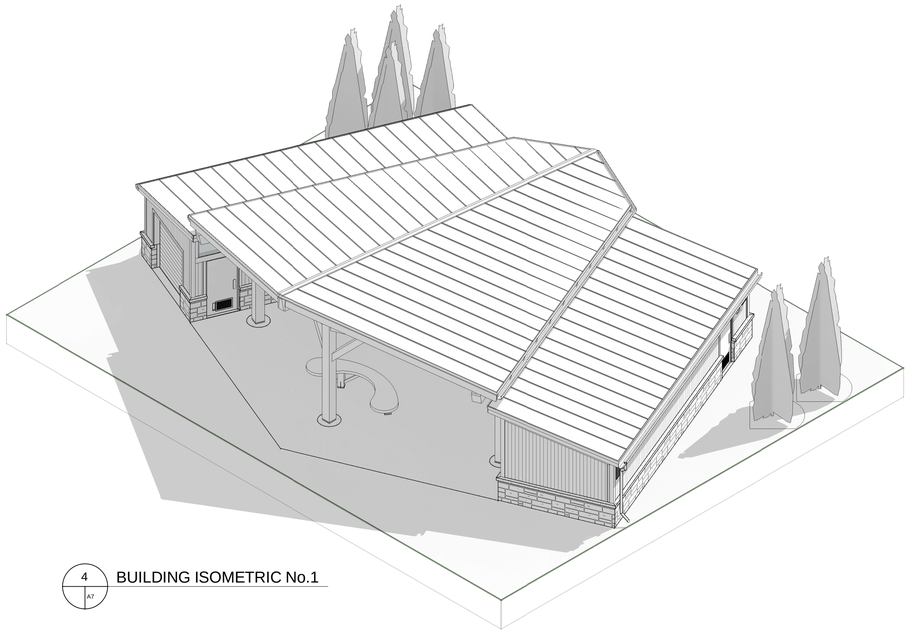
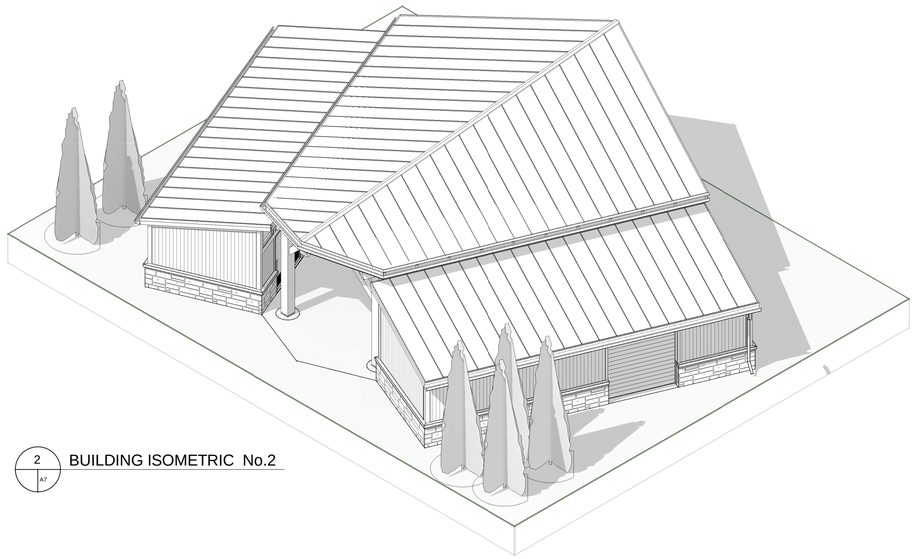
Sheet No./ Feuille No.: A6



4 A7 BUILDING ISOMETRIC No.1



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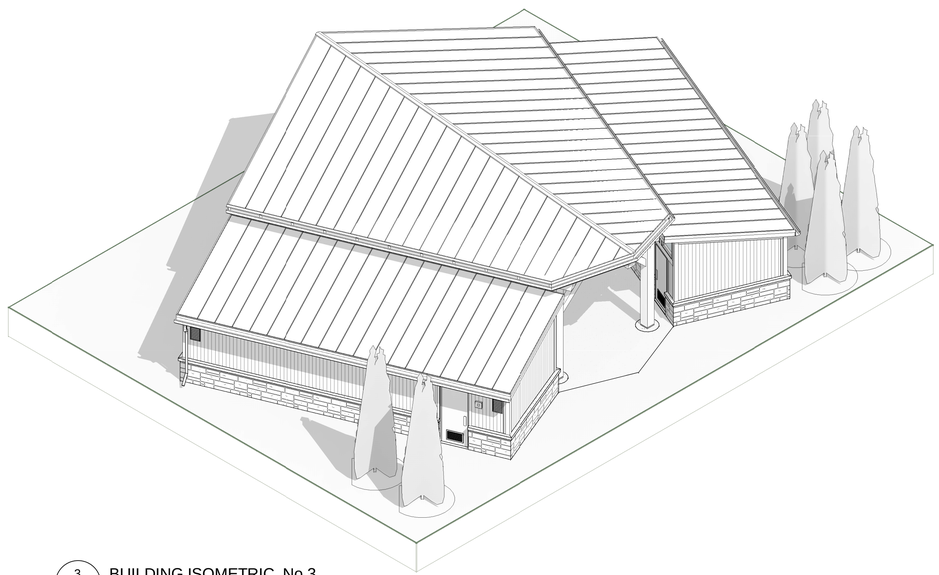
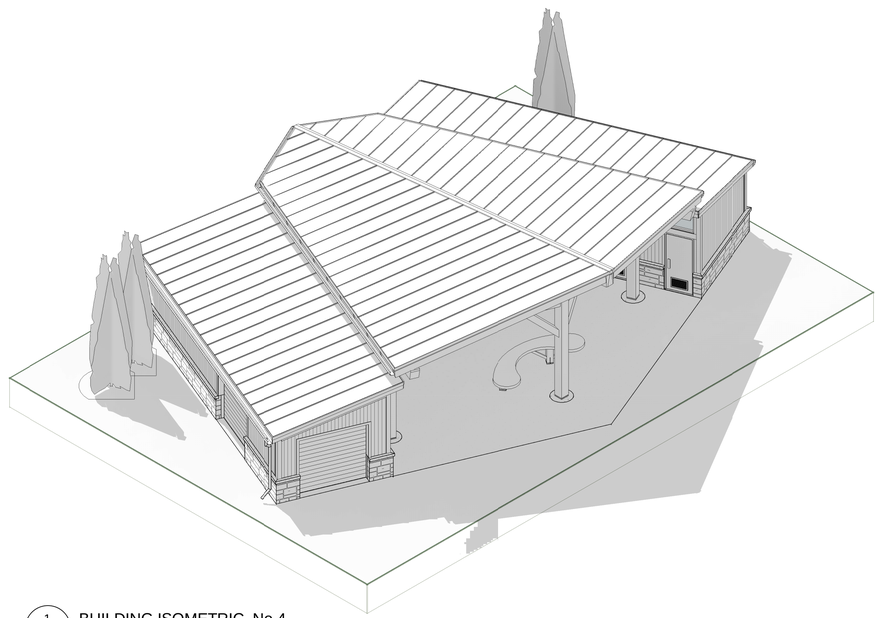


3 A7 BUILDING ISOMETRIC No.3



1 A7 BUILDING ISOMETRIC No.4

DRAWING NO. DRAWING NAME

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CYPRUS LAKE - HEAD OF TRAILS RENEWAL

Drawing title / Titre du Dessin
BUILDING ISOMETRICS

Plot Scale / Echelle

Drawn by/ Dessin par: JA — Date: 2018-06-05

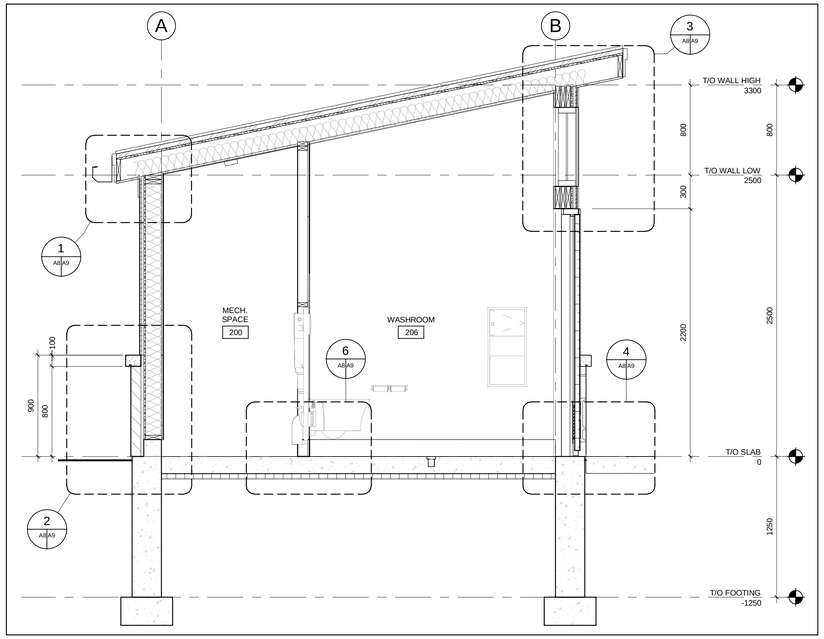
Field Recording by/ Releve-Temoin par — Date:

Approved by/ Approuve par: RT — Date: 2018-07-25

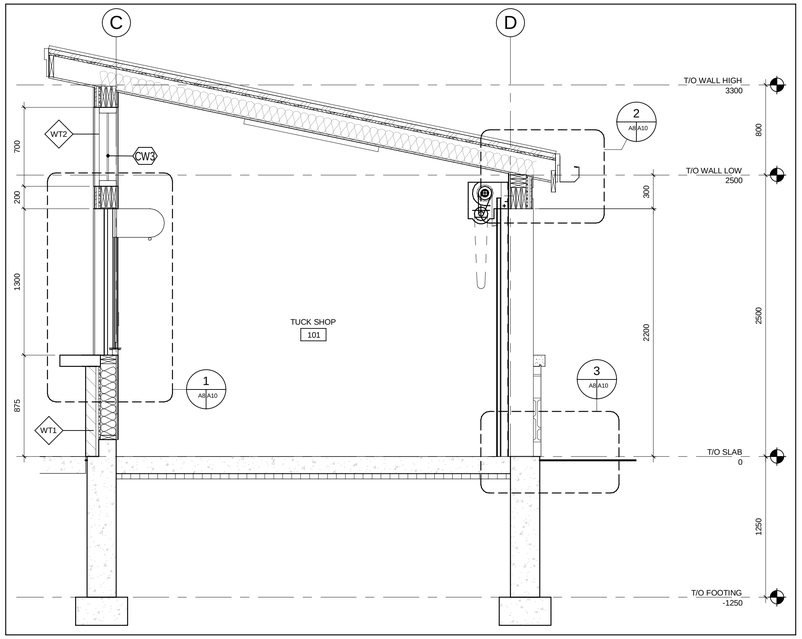
Checked by/ Verife par: AD — Date: 2018-07-25

Project No./No. du projet: 60576731 | Asset No. | Sheet No./ Feuille No.: A7

Drawing Re No./No. du Dessin



1 / A3 A8 — BUILDING SECTION I
1 : 25



2 / A3 A8 — BUILDING SECTION II
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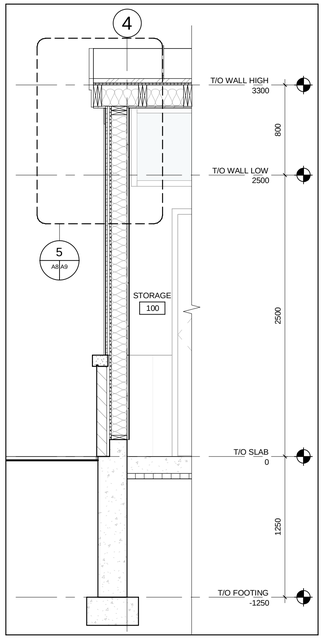
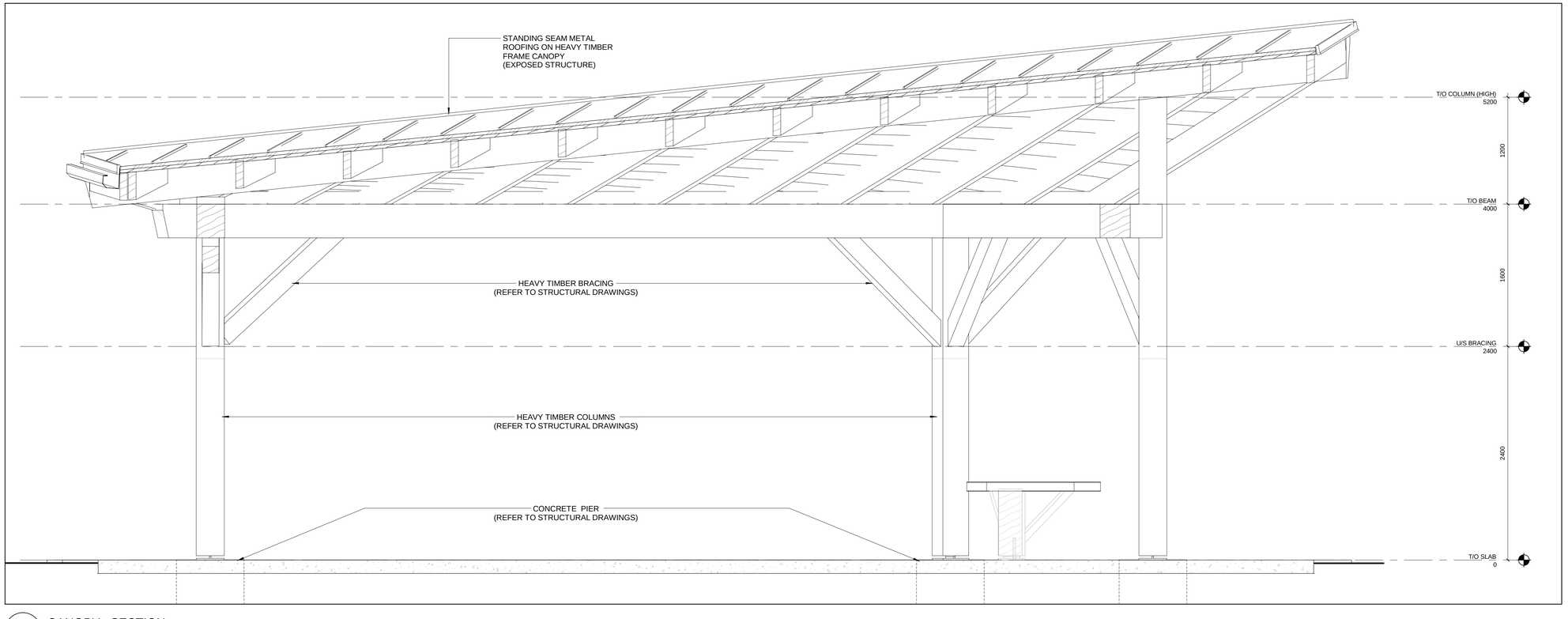


3 / A3 A8 — BUILDING SECTION III
1 : 25



4 / A3 A8 — CANOPY - SECTION
1 : 25

DRAWING NO. DRAWING NAME

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NO.	DATE	DESCRIPTION	Drawn by/ Dessine par	Approved / Approuve
1	2018-08-16	ISSUED FOR TENDER	JA	RT

REVISIONS

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Plot Scale / Echelle
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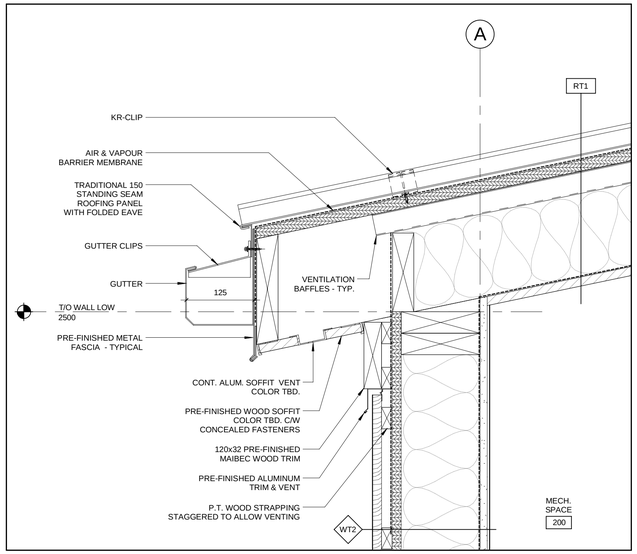
Project No./No. du projet: 60576731 — Asset No.:

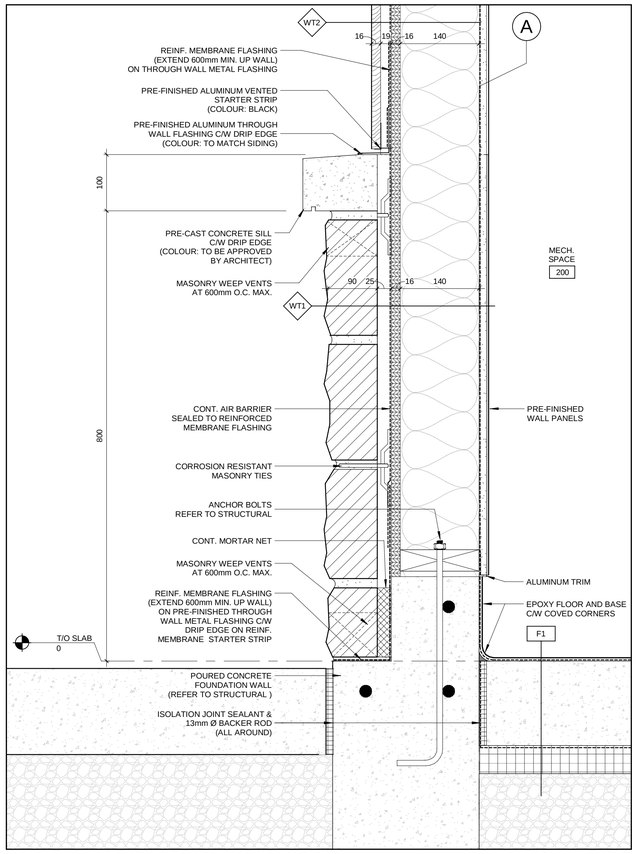
Drawing Re No./No. du Dessin:

Sheet No./ Feuille No.: A8



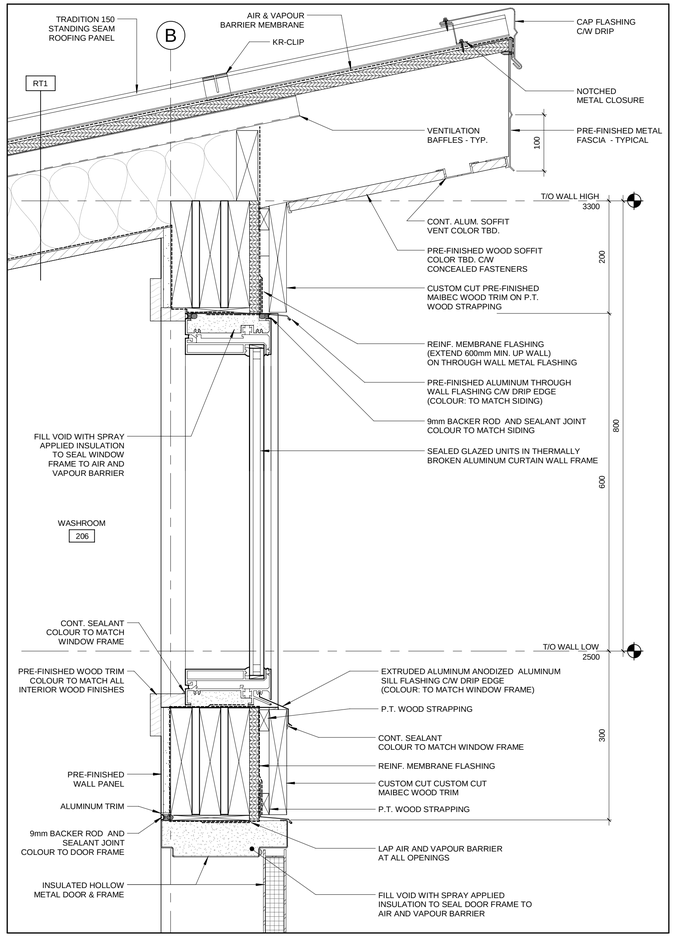
1 (A8 | A9) SECTION DETAIL - ROOF EAVE

1 : 5



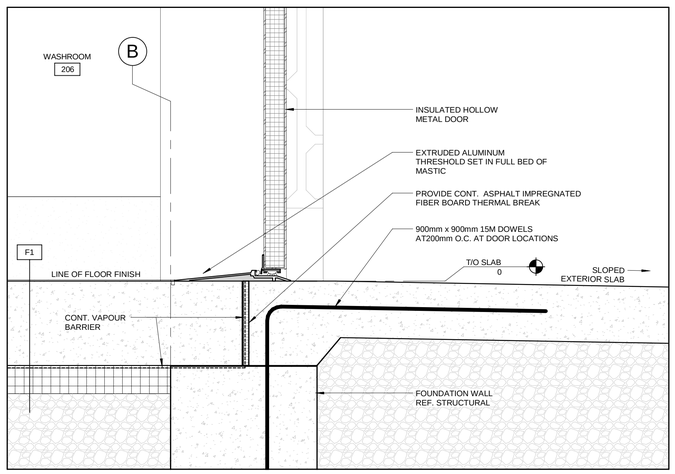
2 (A8 | A9) SECTION DETAIL - STONE BASE

1 : 5



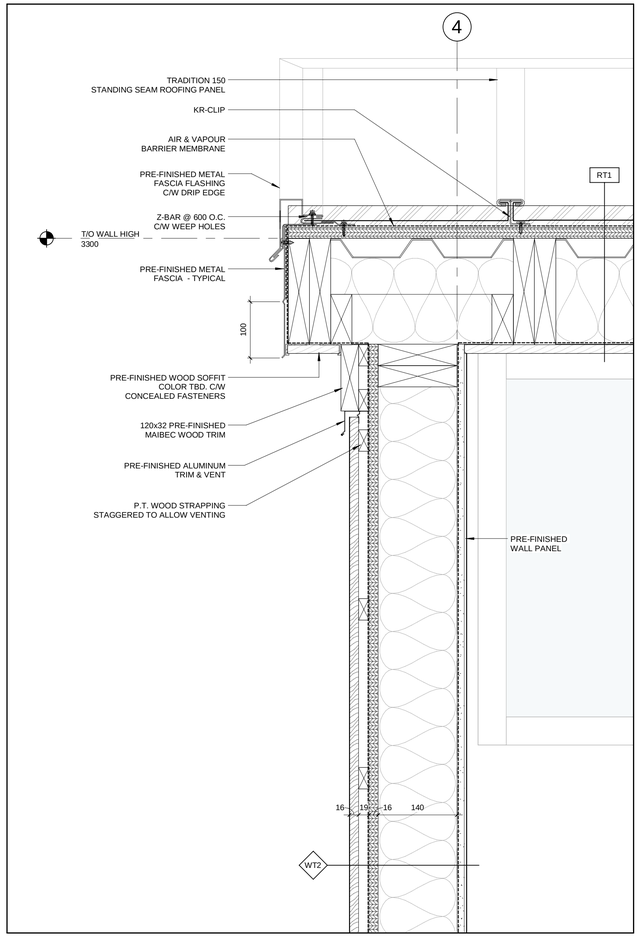
3 (A8 | A9) SECTION DETAIL - ROOF OVERHANG / WINDOW & DOOR HEAD

1 : 5



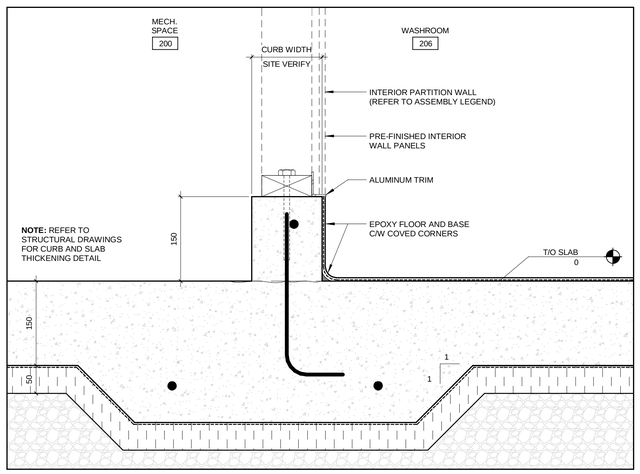
4 (A8 | A9) SECTION DETAIL - DOOR THRESHOLD

1 : 5



5 (A8 | A9) SECTION DETAIL - WALL / ROOF INTERSECTION

1 : 5



6 (A8 | A9) SECTION DETAIL - INTERIOR CURBS

1 : 5

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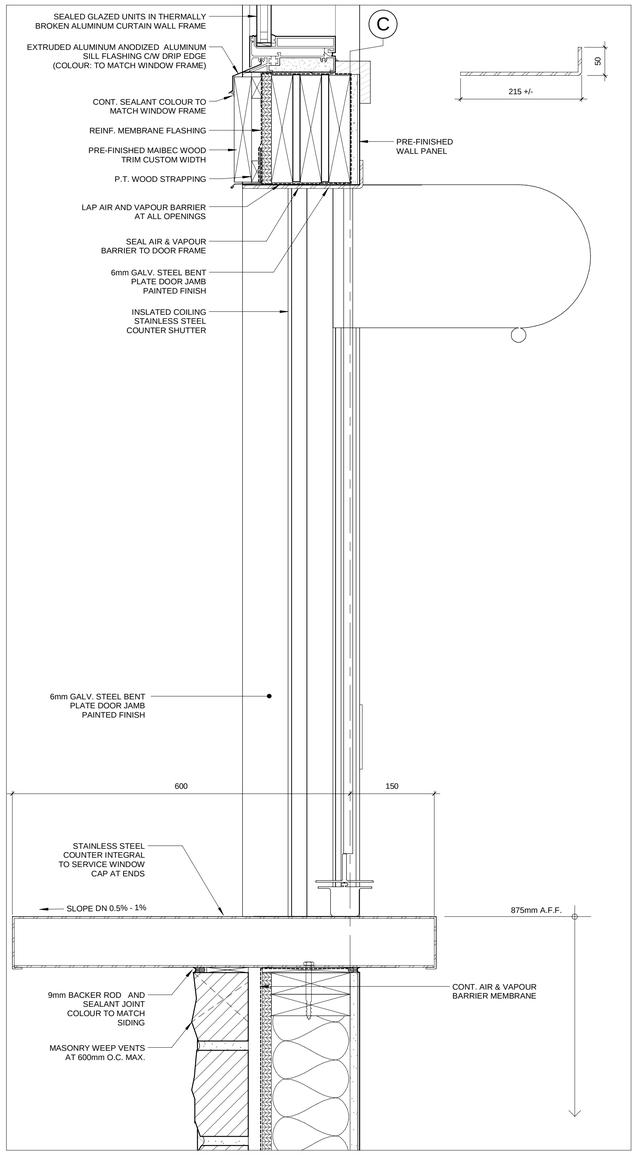
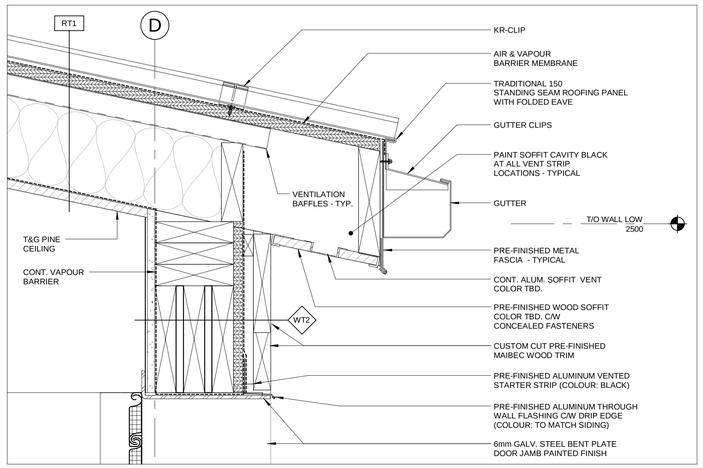
Drawing Re No./No. du Dessin

Sheet No./ Feuille No.: A9



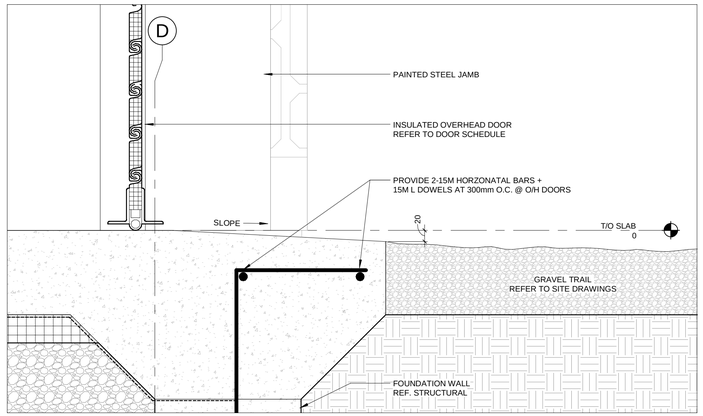
1 (A8 | A10) SECTION DETAIL - HEAD OF OVERHEAD DOOR

1 : 5



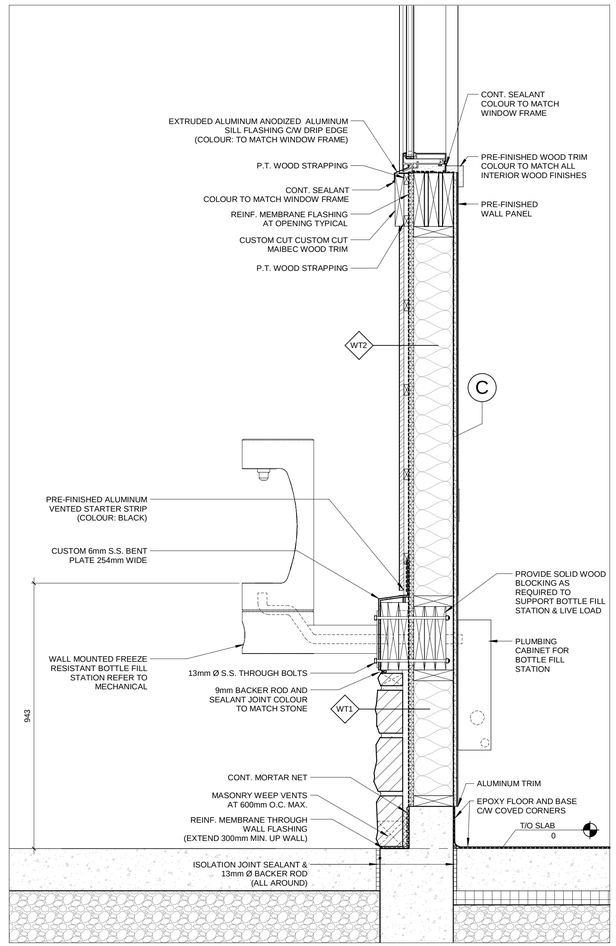
2 (A8 | A10) SECTION DETAIL - LOWER ROOF EAVE

1 : 5



3 (A8 | A10) SECTION DETAIL - WALL / BASE CONNECTION

1 : 5



4 (A3 | A10) SECTION DETAIL - BOTTLE FILL STATION MOUNTING

1 : 10

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REFERENCE DRAWINGS

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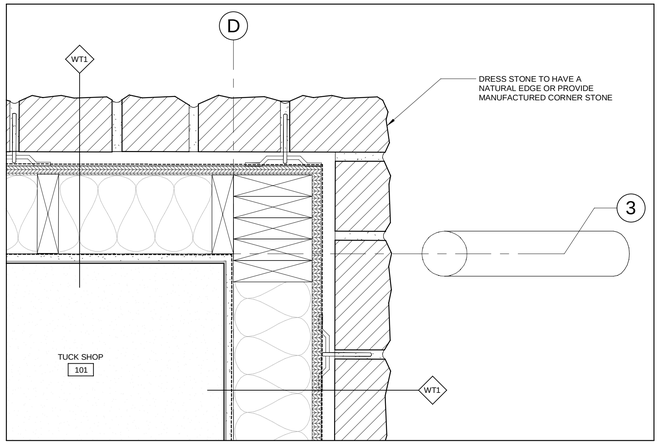
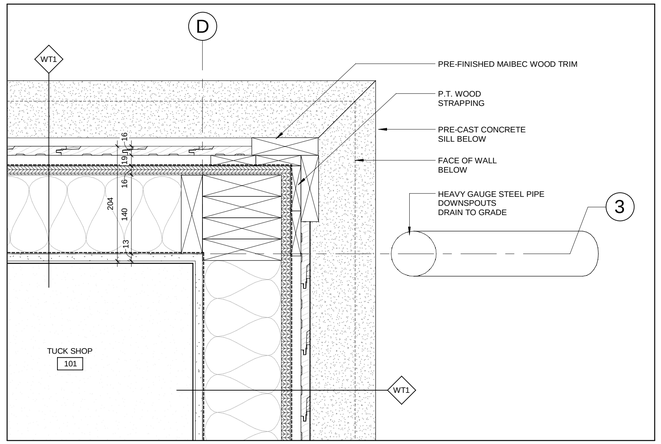
Project No./No. du projet: 60576731 | Asset No. | Sheet No./ Feuille No.: A10

Drawing Re No./No. du Dessin



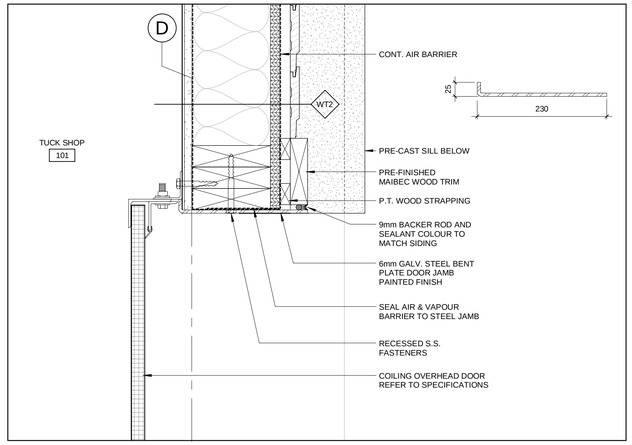
1 A11 — FLOOR PLAN - Callout 3

1 : 5



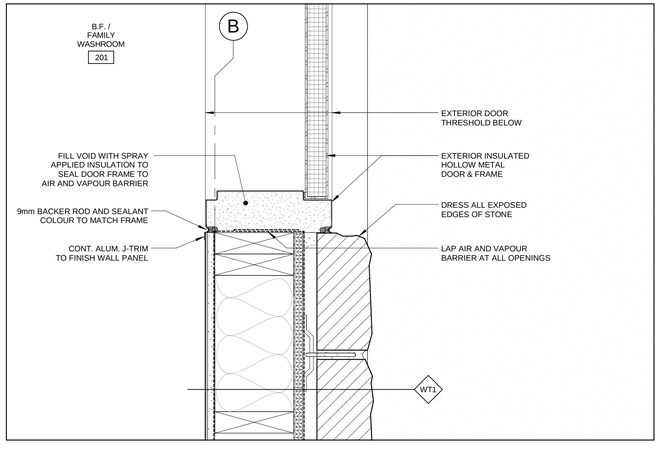
4 A3 A11 — FLOOR PLAN - Callout 3 Copy 1

1 : 5



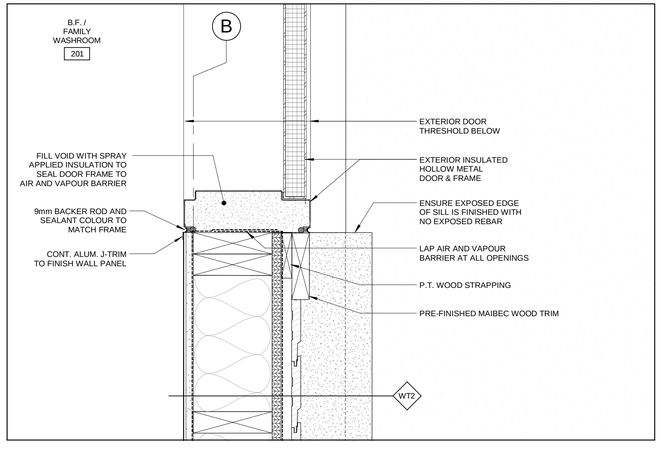
7 A3 A11 — PLAN DETAIL - O/H DOOR JAMB & SERVICE SHUTTER JAMB

1 : 5



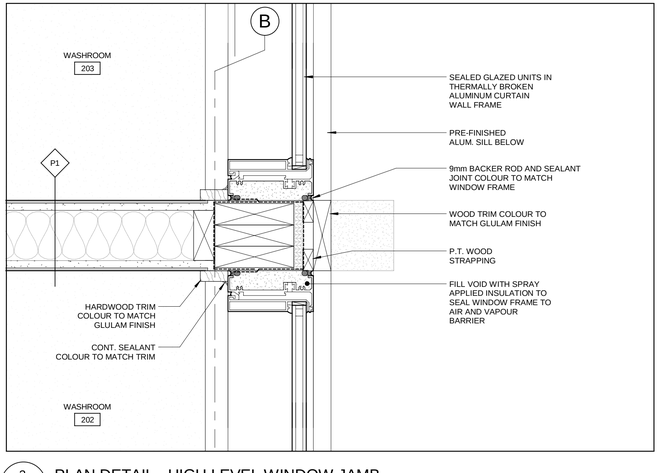
2 A11 — PLAN DETAIL - DOOR JAMB @ SIDING

1 : 5



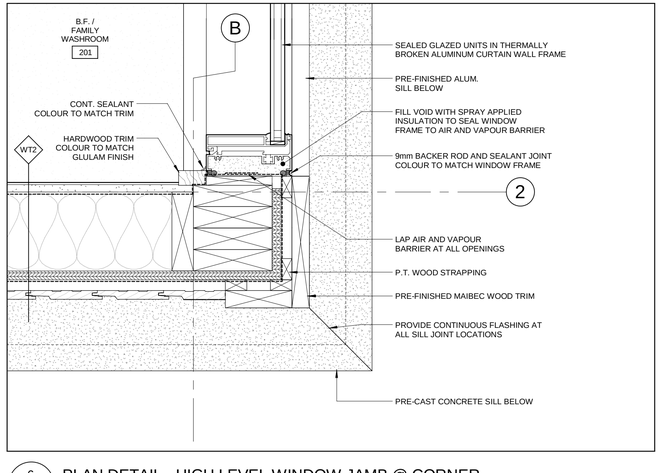
5 A3 A11 — PLAN DETAIL - DOOR JAMB @ STONE

1 : 5



3 A5 A11 — PLAN DETAIL - HIGH LEVEL WINDOW JAMB

1 : 5



6 A5 A11 — PLAN DETAIL - HIGH LEVEL WINDOW JAMB @ CORNER

1 : 5

PROJECT NORTH

DRAWING NO. | DRAWING NAME

REFERENCE DRAWINGS

NO.	DATE	DESCRIPTION	Drawn By / Dessine par	Approved / Approuve
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CYPRUS LAKE - HEAD OF TRAILS RENEWAL

Drawing title / Titre du Dessin

PLAN DETAILS

Plot Scale / Echelle: 1 : 5

Drawn by / Dessin par: JA — Date: 2018-06-05

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Approved by / Approuve par: RT — Date: 2018-07-25

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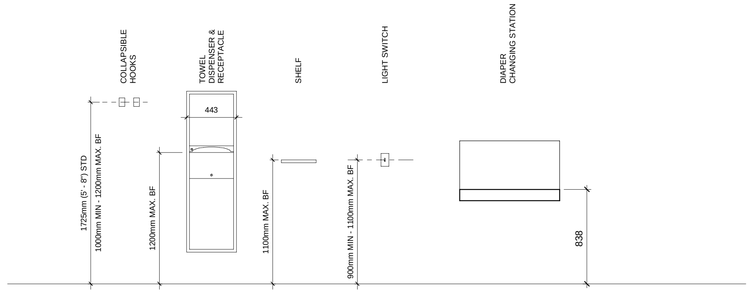
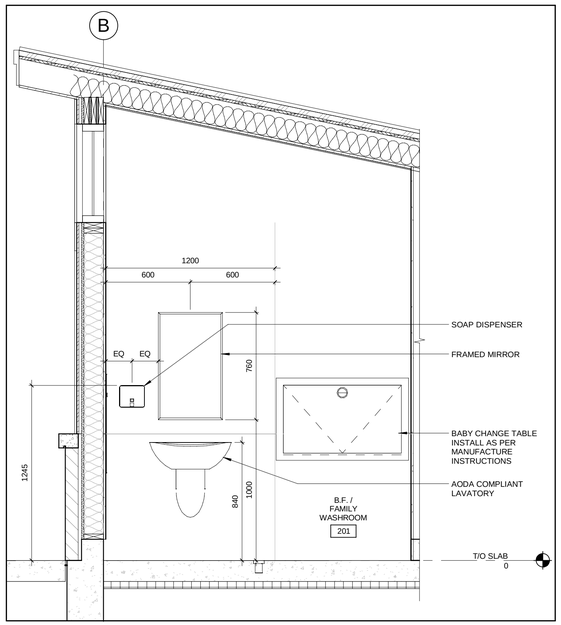
Project No. / No. du projet: 60576731 | Asset No. | Sheet No. / Feuille No.: A11

Drawing Re No. / No. du Dessin

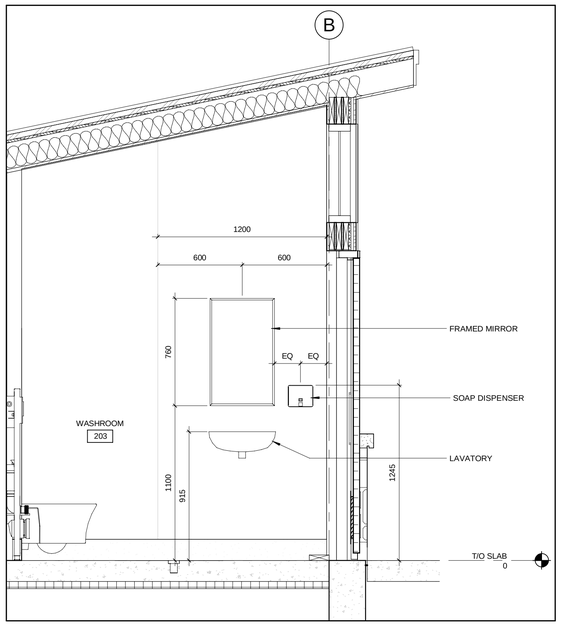
WASHROOM FIXTURE MOUNTING HEIGHTS





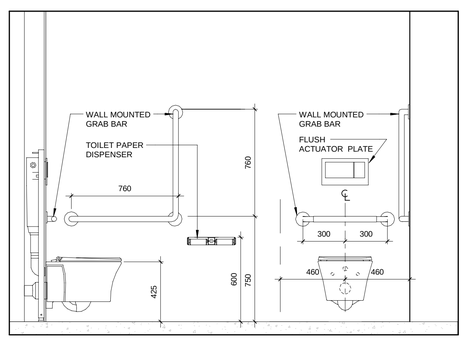
1 A3 A12 INTERIOR ELEVATION - B.F. WASHROOM

1 : 20



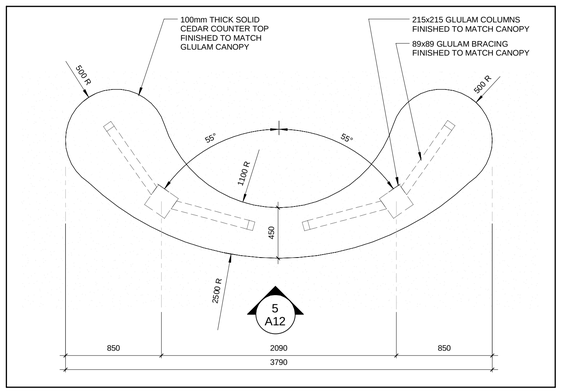
2 A3 A12 INTERIOR ELEVATION - STANDARD WASHROOM

1 : 20



3 A12 TYPICAL B.F. TOILET

1 : 20



4 A3 A12 PLAN - INFORMATION COUNTER

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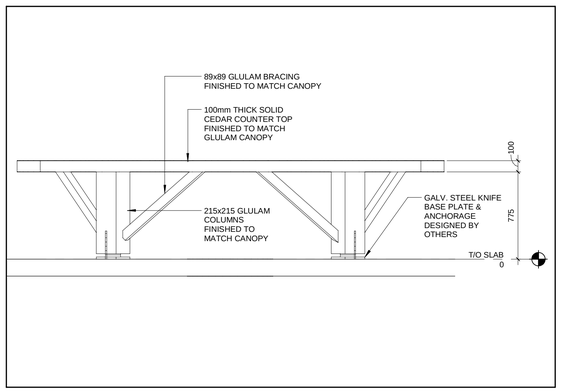

5 A12 A12 ELEVATION - INFORMATION COUNTER

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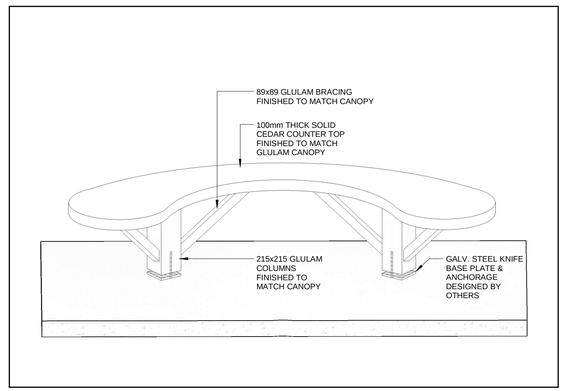

6 A12 ISO - INFORMATION COUNTER

DRAWING NO. | DRAWING NAME

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Plot Scale / Echelle
As indicated

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Date: 2018-07-25

Project No./No. du projet: 60576731
Asset No.:
Sheet No./ Feuille No.: A12

Drawing Re No./No. du Dessin:

DOOR SCHEDULE

LOCATION			LEAF			FRAME			HARDWARE									
MARK	LEAF WIDTH	LEAF HEIGHT	LEAF TYPE	LEAF MATERIAL	LEAF FINISH	FAME TYPE	FRAME MATERIAL	FINISH	INSULATED	WEATHER STRIPING	THRESHOLD	DOOR SWEEP	PUSH / PULL	LOCK SET / KEY PAD	SELF CLOSURE	DEADBOLT	DOOR STOP	COMMENTS
D101	1050	2150	A	INSUL.HM	PAINTED	1	HM	PAINTED	•	•	•	•		•	•	•	•	
D101A	2400	2200	B	INSUL.HM	PRE-FIN	-	PRE-FIN	PRE-FIN	•	•								ALL HARDWARE BY DOOR /SHUTTER SUPPLIER.
D101B	2400	2200	B	INSUL.HM	PRE-FIN	-	PRE-FIN	PRE-FIN	•	•								ALL HARDWARE BY DOOR /SHUTTER SUPPLIER.
D101C	2000	1300	B	S.S.	S.S.	-	S.S.	S.S.	•	•								ALL HARDWARE BY DOOR /SHUTTER SUPPLIER.
D102	910	2150	A	INSUL.HM	PAINTED	1	HM	PAINTED	•	•	•	•		•	•	•	•	
D103	2-910	2150	A	INSUL.HM	PAINTED	1	HM	PAINTED						•		•	•	PROVIDE TWO DOOR GRILLES IN EACH DOOR, ONE HIGH LEVEL & ONE LOW LEVEL.
D200	910	2150	A	INSUL.HM	PAINTED	1	HM	PAINTED	•	•	•	•		•	•	•	•	
D201	910	2150	A	INSUL.HM	PAINTED	1	HM	PAINTED	•	•	•	•	•		•	•	•	DEADBOLT TO DISPLAY "IN USE" WHEN LOCKED AND "VACANT" WHEN UNLOCKED.
D202	750	2150	A	INSUL.HM	PAINTED	1	HM	PAINTED	•	•	•	•	•		•	•	•	DEADBOLT TO DISPLAY "IN USE" WHEN LOCKED AND "VACANT" WHEN UNLOCKED.
D203	750	2150	A	INSUL.HM	PAINTED	1	HM	PAINTED	•	•	•	•	•		•	•	•	DEADBOLT TO DISPLAY "IN USE" WHEN LOCKED AND "VACANT" WHEN UNLOCKED.
D204	750	2150	A	INSUL.HM	PAINTED	1	HM	PAINTED	•	•	•	•	•		•	•	•	DEADBOLT TO DISPLAY "IN USE" WHEN LOCKED AND "VACANT" WHEN UNLOCKED.
D205	750	2150	A	INSUL.HM	PAINTED	1	HM	PAINTED	•	•	•	•	•		•	•	•	DEADBOLT TO DISPLAY "IN USE" WHEN LOCKED AND "VACANT" WHEN UNLOCKED.
D206	750	2150	A	INSUL.HM	PAINTED	1	HM	PAINTED	•	•	•	•	•		•	•	•	DEADBOLT TO DISPLAY "IN USE" WHEN LOCKED AND "VACANT" WHEN UNLOCKED.
D207	750	2150	A	INSUL.HM	PAINTED	1	HM	PAINTED	•	•	•	•	•		•	•	•	DEADBOLT TO DISPLAY "IN USE" WHEN LOCKED AND "VACANT" WHEN UNLOCKED.
D208	910	2150	A	INSUL.HM	PAINTED	1	HM	PAINTED	•	•	•	•	•		•	•	•	DEADBOLT TO DISPLAY "IN USE" WHEN LOCKED AND "VACANT" WHEN UNLOCKED.

DOOR SCHEDULE ABBREVIATIONS

D.S. - DOOR SCHEDULE
PRE-FIN - PRE-FINISHED METAL
TG. - TEMPERED GLASS
H.M. - HOLLOW METAL
INSUL. H.M. - INSULATED HOLLOW METAL
PAINT - PAINTED
BSP - BENT STEEL PLATE
ROD - ROLL-UP OVERHEAD DOOR
ALUM. - ALUMINUM
ANOD. - ANODIZED
PRE FIN. - PREFINISHED
S.C. - SOLID WOOD CORE
WD - WOOD
ST. - STAINED
H.C. - HOLLOW WOOD CORE

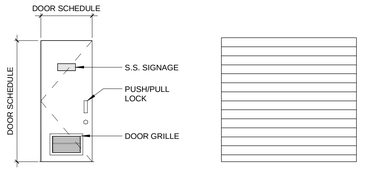
* ALL HARDWARE TO BE B-F LEVER TYPE

LEGEND

LAMICOID INDENT . SIGN

DOOR ELEVATIONS

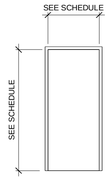
NOTE: - COORDINATE WITH MECHANICAL DOOR TRANSFER GRILLES
- COORDINATE DOOR AND FRAME ELEVATIONS WITH DOOR SCHEDULE
- PROVIDE WALL MOUNTED STAINLESS STEEL DOOR STOPS - TYPICAL FOR ALL DOORS



A

B

FRAME ELEVATIONS



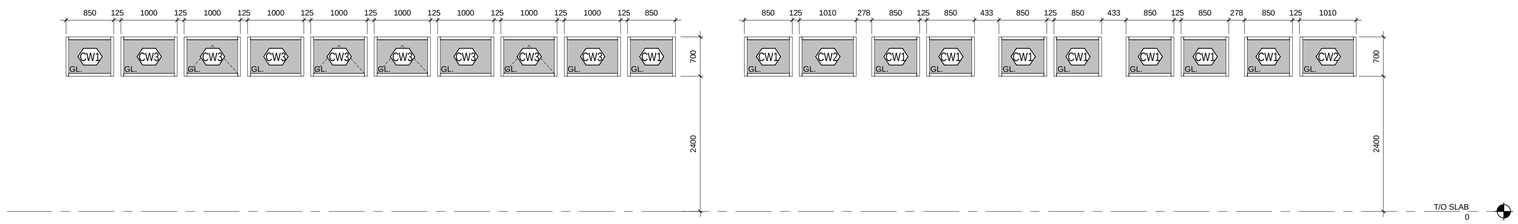
1

WINDOW SCHEDULE ABBREVIATIONS

GL. — CLEAR INSULATED GLAZING PANEL

NOTE

1) ALL WINDOW SCREEN ELEVATIONS INDICATE FINISHED DIMENSIONS.
2) PROVIDE NECESSARY ROUGH OPENING DIMENSIONS IN SHOP DRAWING PACKAGE TO BE REVIEWED AND APPROVED BY CONSULTANT.
4) ALL WINDOWS SET IN INSULATED THERMALLY BROKEN ALUMINUM FRAMES.
5) OPERATE WINDOWS TO INCLUDE INSECT SCREENS.



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A Detail Number — A Numero de Detail
B Sheet Number — B Sur feuille Numero

LINEAR DIMENSIONS IN MILLIMETERS — Dimensions lineaires en millimetres

Parcs Canada — Parks Canada

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PARKS CANADA

Type of Record / Type d'enregistrement

Project title / Titre du projet
CYPRUS LAKE - HEAD OF TRAILS RENEWAL

Drawing title / Titre du Dessin
DOOR & WINDOW SCHEDULE

Plot Scale / Echelle
1 : 50

Drawn by/ Dessin par: JA — Date: 2018-06-05
Field Recording by/ Releve-Temoin par — Date:
Approved by/ Approuve par: RT — Date: 2018-07-25
Checked by/ Verife par: AD — Date: 2018-07-25

Project No./No. du projet: 60576731 — Asset No.: — Sheet No./ Feuille No.: A13
Drawing Re No./No. du Dessin

GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL, AND OTHER PROJECT DRAWINGS.
2. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE MOST STRINGENT REQUIREMENTS OF; THE 2015 NATIONAL BUILDING CODE, THE 2012 ONTARIO BUILDING CODE, AND STRUCTURAL COMMENTARIES (PART 4 OF THE 2010 NATIONAL BUILDING CODE), THE OCCUPATIONAL HEALTH AND SAFETY ACT(INCLUDING LATEST AMENDMENTS), AND REQUIREMENTS OF OTHER LOCAL AUTHORITIES HAVING JURISDICTION.
3. ALL DIMENSIONS, ELEVATIONS, OPENINGS FOR PIPES, SLEEVES, EQUIPMENT LOCATIONS AND THE LIKE SHALL BE CHECKED WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND CIVIL DRAWINGS. REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
4. PROVIDE ALL NECESSARY PROFESSIONAL ENGINEER CERTIFIED SHORING, SCAFFOLDING AND UNDERPINNING TO EXECUTE THE PROJECT SAFELY.
5. MAKE GOOD ANY DAMAGES DONE DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE CONDITIONS AND CHECK AND VERIFY THE LOCATION OF ANY UNDERGROUND UTILITIES OR OTHER EXISTING SERVICES WHICH MAY INTERFERE WITH THE WORK OF THIS PROJECT AND COORDINATE WITH THE OWNER, ENGINEER OR OTHER AUTHORITIES AS MAY BE REQUIRED FOR THEIR RELOCATION, REMOVAL, OR TEMPORARY SUPPORT. PROTECT EXISTING UNDERGROUND UTILITIES, AND OTHER EXISTING CONDUITS, PIPING OR UTILITY SERVICES DURING CONSTRUCTION. MAKE GOOD ANY DAMAGE RESULTING FROM WORK ON THIS PROJECT.
7. THE CONTRACTOR SHALL SUPPLY, REMOVE AND TAKE RESPONSIBILITY FOR ALL TEMPORARY BRACING, EXCAVATION SUPPORT SYSTEM AND DEWATERING NECESSARY TO UNDERTAKE THE WORK.
8. ALL ASPECTS OF WORK SCHEDULING, ACCESSIBILITY AND LOGISTICS SHALL BE COORDINATED AND AGREED WITH THE OWNER PRIOR TO COMMENCEMENT.
9. DO NOT SCALE THESE DRAWINGS.
10. OMITTED DIMENSIONS ON FRAMING PLANS AND ELEVATIONS SCHEMATICS INDICATE MEMBERS EQUALLY SPACED BETWEEN DEFINED LINES.

EXCAVATION

1. IT IS REQUIRED THAT THE BUILDINGS HAVE 1.5m DEEP FROST PROTECTED FOUNDATION WALLS. IT IS NOTED THAT BEDROCK DEPTHS VARY THROUGHOUT THE SITE AND THAT EXCAVATION THRU THE BEDROCK WILL VARY DEPENDING ON THE SITE LOCATION . REFER TO THE GEOTECHNICAL REPORT FOR APPROXIMATE DEPTHS.
2. FOLLOW THE EXCAVATION DIAGRAM FOR EXCAVATION DEPTHS.

CONSTRUCTION

1. FORMWORK SHALL CONFORM TO THE REQUIREMENTS OF C.S.A. SPECIFICATION A23M AND A.C.I. SP.4.
2. FORMWORK SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER OF THE PROVINCE OF ONTARIO, TO WITHSTAND ALL SUPERIMPOSED LOADS DURING CONSTRUCTION.
3. SHORING, RE-SHORING, AND CONSTRUCTION LOADS SHALL BE CONTROLLED TO ENSURE THAT NO STRUCTURAL ELEMENT IS OVERSTRESSED.
4. MAKE NECESSARY ALLOWANCE FOR FORMWORK CREEP AND DEFLECTION AND ADJUST ACCORDINGLY TO ACHIEVE THE ELEVATION FOR THE COMPLETION OF THE JOB.
5. CONSTRUCTION JOINTS SHALL BE MADE AND LOCATED SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE.
6. THE CONTRACTOR SHALL MAKE NECESSARY ALLOWANCE FOR ANY VARIATION AND/OR ANY REVISIONS MADE ON ACCOUNT OF SUB-TRADES AND PRODUCT SELECTION FOR THE COMPLETION OF THE PROJECT.

FOUNDATIONS

1. ALL PERTAINING SOILS INFORMATION AS PER GEOTECHNICAL REPORT BY GM BLUE PLAN ENGINEERING LIMITED, No. 217291, DATED OCTOBER 2017 (AND SUBSEQUENT REVISIONS), SHALL BE USED.
2. ALL EXTERIOR FOOTINGS SHALL BE CARRIED DOWN AT LEAST 1500mm BELOW FINISHED GRADE FOR FROST PROTECTION UNLESS NOTED OTHERWISE.
3. PROTECT FOUNDATIONS, WALLS, SLABS ON GRADE, GRADE BEAMS, FOOTINGS AND ADJACENT SOIL AGAINST FREEZING AND FROST ACTION AT ALL TIMES DURING CONSTRUCTION.
4. ALL FOOTINGS SHALL BE PLACED ON COMPETENT BEARING STRATA, AS DESCRIBED BELOW, HAVING A MINIMUM GEOTECHNICAL BEARING RESISTANCE OF 150 kPa AT THE SERVICEABILITY LIMIT STATES (SLS) AND 210 kPa AT THE ULTIMATE LIMIT STATES (ULS), AND MUST BE INSPECTED, REVIEWED, AND APPROVED BY THE GEOTECHNICAL ENGINEER BEFORE PLACING FOOTINGS.
   - 4.1 TO AVOID DIFFERENTIAL SETTLEMENTS, THE FOOTINGS FOR ANY ONE BUILDING MUST BEAR ON THE SAME STRATA AS FOLLOWS: EITHER COMPETENT BEDROCK, OR COMPETENT CLAYEY SILT TILL.
   - 4.2 IF THE BEDROCK IS NOT EXPOSED DURING THE EXCAVATION, FOOTINGS MAY BEAR DIRECTLY ON THE COMPETENT CLAYEY SILT TILL AT THE SPECIFIED DEPTHS.
   - 4.3 SHOULD BEDROCK BE EXPOSED DURING THE EXCAVATION, THE BEDROCK IS TO BE EXCAVATED IN ACCORDANCE WITH THE EXCAVATION DIAGRAM. IF IT IS DETERMINED THAT ALL THE FOOTINGS CAN BEAR ON THE COMPETENT BEDROCK AT THE SPECIFIED DEPTHS, ALL THE FOOTINGS SHALL BEAR DIRECTLY ON THE BEDROCK. IF IT IS DETERMINED THAT NOT ALL THE FOOTINGS CAN BEAR ON BEDROCK, A 150mm LAYER OF COMPACTED GRANULAR 'A' SHALL BE INSTALLED ABOVE THE BEDROCK TO ENSURE ALL THE FOOTINGS ARE ON THE NATIVE COMPETENT TILL (OR EQUILAVENT ENGINEERED FILL).
5. ENGINEERED STRUCTURAL FILL SHALL BE USED AS BACK-FILL AGAINST THE FOUNDATION WALLS, PIERS AND TO REPLACE THE EXISTING FILL UNDERNEATH THE FLOOR SLAB. ENGINEERED STRUCTURAL FILL SHOULD COMPRISE OF APPROVED IMPORTED FREE-DRAINING OPSS.PROV GRANULAR 'B' PLACED IN 200mm LAYERS AND COMPACTED TO 100% SPMDD TO THE PROPOSED SUB-GRADE ELEVATIONS.
6. DO NOT BACKFILL AGAINST WALLS RETAINING EARTH UNTIL ELEMENTS PROVIDING LATERAL SUPPORT ARE COMPLETED. PLACE BACKFILL SIMULTANEOUSLY ON BOTH SIDES OF WALLS BELOW GRADE.
7. WHERE ANY EXISTING FILL OR OBSTRUCTION IS ENCOUNTERED, THE FOOTING SHALL STEP DOWN TO COMPETENT FOUNDING SOIL AT A SLOPE OF 10 HORIZONTAL TO 7 VERTICAL.
8. ALL COLUMNS, PIERS AND WALL FOOTINGS SHALL BE CENTERED ON THE COLUMN, PIER OR WALL RESPECTIVELY UNLESS NOTED.
9. REFER TO ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND CIVIL DRAWINGS FOR DIMENSIONS, ELEVATIONS, DETAILS AND LOCATIONS OF SLAB DEPRESSIONS, SLOPES, TRENCHES, ETC.
10. PROVIDE A 20mm CHAMFER AT EXPOSED CORNERS.
11. PROVIDE TEMPORARY SHORING, ETC., ADEQUATE TO SUPPORT EXISTING STRUCTURES DURING CONSTRUCTION.
12. REMOVAL ALL TOP SOIL, ORGANIC AND LOOSE MATERIAL FROM THE BUILDING ADDITION ENVELOPE AS DIRECTED BY GEOTECHNICAL ENGINEER.

CONCRETE

1. CONCRETE CONSTRUCTION SHALL CONFORM TO ALL C.S.A. A23 SERIES STANDARDS.
2. MINIMUM CONCRETE STRENGTH AFTER 28 DAYS SHALL BE AS FOLLOWS:

TYPE	STRENGTH	CLASS OF EXPOSURE
LEAN CONCRETE FILL, MUD SLAB	10 MPa	N
FOOTINGS	20 MPa	N
PIERS, FOUNDATION WALLS	25 MPa	F-2
INTERIOR SLAB ON GRADE	25 MPa	N
EXTERIOR SLAB ON GRADE	32 MPa	C-2

3. REINFORCING STEEL SHALL BE PROPERLY SUPPORTED WITH WIRE BAR SUPPORTS.
   MINIMUM CONCRETE COVER TO REINFORCING BARS:

EXPOSURE CONDITION	N	F-2	C-2
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	75mm	75mm	75mm
FORMED SIDES OF WALLS	40mm	40mm	40mm
TOP SURFACE OF SLABS	50mm	50mm	50mm
RATIO OF COVER TO NOMINAL BAR DIAMETER	1.0	1.5	2.0
RATIO OF COVER TO NOMINAL MAXIMUM AGGREGATE SIZE	1.0	1.5	2.0

4. USE PORTLAND TYPE GU FOR ALL CONCRETE UNLESS NOTED OTHERWISE.
5. JOINT CHAMFER: ALL FLUSH CONCRETE SURFACES MEETING AT JOINTS IN VISIBLE LOCATIONS SHALL BE FORMED WITH A 'V' SHAPED REGLET AT FACE (20mm DEEP).
6. FILL AND REFINISH ALL VOIDS. FORM-WIRE LOCATIONS ETC.
7. BONDING AGENT FOR POURING NEW CONCRETE AGAINST EXISTING, APPLY THE EPOXY BONDING ADHESIVE TO EXPOSED EXISTING SURFACES IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. USE SIKADUR 32 HI-MOD BY SIKA OR ENGINEER APPROVED EQUAL.
8. DOWELLING INTO EXISTING CONCRETE:
   FOR DOWELLING REINFORCING STEEL BARS INTO THE EXISTING CONCRETE, DRILL AND PREPARE A CONCRETE HOLE, 3mm LARGER THAN THE BAR DIAMETER. SET THE BAR INTO THE SPECIFIED HOLE USING THE EPOXY BONDING ADHESIVE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. USE HIT HY 200 ADHESIVE BY HILTI OR ENGINEER APPROVED EQUAL.

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH C.S.A. G30.18M - GRADE 400.
2. REINFORCING BARS SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS AND ELEVATION VARIATIONS UNLESS NOTED. CONTINUOUS BARS SHALL BE FULLY DEVELOPED BY LAPPING WHERE SPLICED.
3. DETAIL, BEND, PLACE, AND SUPPORT REINFORCING STEEL IN CONFORMANCE WITH RSIO MANUAL OF STANDARD PRACTICE, UNLESS NOTED OTHERWISE.

SLAB-ON-GRADE

1. SEE PLAN FOR SLAB THICKNESS.
2. SLAB ON GRADE SHALL BE PLACED ON 150mm BASE COURSE OF GRANULAR 'A' BACKFILLED AS PER OPSS.PROV 1010 COMPACTED TO 100% SPMDD MINIMUM. ALL INFILLING BELOW THE GRANULAR 'A' SHOULD BE WELL GRADED FREE DRAINING GRANULAR 'B' TYPE 1 BACKFILL AS PER OPSS.PROV 1010 COMPACTED TO A MINIMUM OF 100% SPMDD. ALL ENGINEERED FILL MUST BE INSPECTED, APPROVED AND COMPACTION VERIFIED BY THE GEOTECHNICAL ENGINEER.
3. PRIOR TO PLACING GRANULAR FILL MATERIALS, PROOF-ROLL EXISTING SUB-GRADE TO INDENTIFY INCONSISTENCIES OR SOFT AREAS. PROCEED WITH GRANULAR PLACEMENT ONLY AFTER THESE AREAS HAVE BEEN RE-WORKED AND COMPACTED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
4. DO NOT POUR CONCRETE UNTIL ALL ELECTRICAL AND MECHANICAL CONDUITS, PIPING OR OTHER EMBEDDED SERVICES ARE INSTALLED, AND VERIFIED.
5. MAINTAIN SLAB THICKNESS INDICATED ON THE DRAWINGS IN ALL CASES.
6. AGREE TO LOCATIONS OF CONSTRUCTION JOINTS WITH ENGINEER PRIOR TO CONSTRUCTION.
7. PROVIDE SAW-CUT CONTROL JOINTS OF 30 X t (t = SLAB THICKNESS) MAXIMUM SPACING (FOR JOINTED FLOORS) UNLESS NOTED OTHERWISE.
8. PERFORM SAW-CUTTING FOR CONTROL JOINTS USING DRY METHOD (SOFT-CUT SAW) AS SOON AS POSSIBLE AFTER CONCRETE PLACEMENT WITHOUT LEAVING TREAD MARKS. DISLODGING AGGREGATE AND BEFORE UNCONTROLLED SHRINKAGE OCCURS. FILL CONTROL JOINTS, AS SPECIFIED, NO SOONER THEN 120 DAYS AFTER CONCRETE POUR.
9. PROVIDE SLAB ON GRADE THICKENING TO SUIT ANY ANCHORS OR INSERTS AS REQUIRED, UNLESS NOTED.
10. FOR CONCRETE FINISH, THE EXTERIOR SLAB-ON-GRADE SHALL RECEIVE A TROWEL "SWIRL" FINISH (TEXTURE), TO PROVIDE A GOOD NON-SLIP SURFACE.
11. FOR THE INTERIOR SLAB-ON-GRADE CONCRETE FINISH, REFER TO THE ARCHITECTURAL SPECIFICATIONS.
12. SEALER FOR THE CONCRETE SLAB SHALL BE AN EXTERIOR APPLICATION, ULTRAVOILET RESISTANT, SEALER. USE "SUPER DIAMOND CLEAR" BY EUCLID, OR EQUIVALENT AS APPROVED BY THE ENGINEER.

STRUCTURAL STEEL

1. THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL CONDITIONS AND MEASUREMENTS AT THE SITE AND REPORT TO THE CONSULTANT ANY DISCREPANCIES OR UNSATISFACTORY CONDITIONS WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION OF THE WORK BEFORE PROCEEDING WITH THE WORK.
2. ALL SHOP CONNECTIONS SHALL BE WELDED. ALL FIELD CONNECTIONS SHALL BE WELDED OR BOLTED USING HIGH TENSILE BOLTS. BEARING TYPE CONNECTIONS SHALL BE C.I.S.C. DOUBLE ANGLE BEAM CONNECTIONS OR SHEAR PLATES USING A325 BOLTS AND E49XX FILLET WELDS, MINIMUM SIZE OF BOLTS – 20mm DIAMETER. THEY SHALL BE CAPABLE OF SUPPORTING 50% OF THE TOTAL UNIFORM LOAD CAPACITY CALCULATED USING UNIFORM LOAD CONSTANTS FOR BEAMS LATERALLY SUPPORTED EXCEPT WHERE SPECIFICALLY NOTED OR DETAILED.
3. FOR LOCATIONS OF DOOR FRAMES, WALL OPENINGS, AND ROOF OPENINGS, ETC. AND RELATED DETAILS, SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
4. THE MINIMUM END CONNECTION OF ANY MEMBER SHALL BE MADE WITH TWO(2) A325 BOLTS OR EQUIVALENT WELD.
5. ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CSA G40.21M GRADE 300W,UNLESS NOTED OTHERWISE.
6. ALL STRUCTURAL STEEL 'W' SHAPES SHALL CONFORM TO CSA G40.21M GRADE 350W.
7. ALL HOLLOW STRUCTURAL STEEL SECTIONS SHALL CONFORM TO CSA G40.21M GRADE 350W - CLASS H.
8. FABRICATION, ERECTION AND WORKMANSHIP SHALL CONFORM TO CAN/CSA S16-01.
9. ALL WELDING SHALL CONFORM TO CSA S16-01 AND THE LATEST VERSION OF W59 AND SHALL BE PERFORMED BY A WELDER QUALIFIED UNDER THE LATEST VERSION OF CSA W47.
10. WELDING ELECTRODES SHALL BE E49XX.
11. SURFACES TO BE WELDED SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATTER INCLUDING PAINT FILM.
12. ALL JOINTS SHALL BE WELDED USING E49XX ELECTRODES OR BEARING TYPE CONNECTIONS USING M20 ASTM A325M HIGH STRENGTH BOLTS, UNLESS NOTED.
13. SUBMIT SHOP DRAWINGS TO THE CONSULTANT FOR REVIEW AND APPROVAL. SHOP DRAWINGS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO FOR CONNECTION DESIGN.
14. FOR PRIME PAINTING / PAINTING OF STRUCTURAL STEEL REFER TO SPECS. TOUCH-UP DAMAGED AREAS IN FIELD WITH SAME SYSTEM.
15. ANCHOR BOLTS CONFORMING TO ASTM A307.
16. ALL EXTERIOR (EXPOSED) STRUCTURAL STEEL MUST BE HOT DIP GALVANIZED TO CONFORM TO CSA G164 AND TO HAVE A MINIMUM ZINC COATING OF 600 g/sq. m.

ANCHOR TYPES

1. CAST-IN-PLACE ANCHOR BOLTS FOR THE COLUMNS BASES AND THE WALL BASE ANCHORAGE SHALL CONFORM TO ASTM A307. THE EXPOSED PORTION OF THE ANCHOR BOLTS ARE TO BE HOT-DIPPED GALVANIZED.
2. SET-IN-PLACE ANCHORS SHALL BE HILTI ANCHOR SYSTEM INSTALLED IN STRICT ACCORDANCE WITH THE HILTI SPECIFICATIONS, FOR THE LOAD INDICATED, OR ENGINEER APPROVED EQUAL.

   ANCHOR TYPE 1: (TO CONCRETE)
   HILTI KWIK BOLT 3 EXPANSION ANCHOR SYSTEM, USING 16mm DIAMETER ANCHORS WITH A 80mm EMBEDMENT, FOR AN ALLOWABLE (UNFACTORED) SHEAR LOAD OF 35 kN AND TENSION LOAD OF 15 kN PER ANCHOR.

   ANCHOR TYPE 2: (TO CONCRETE)
   HILTI HIT-HY 200 ADHESIVE ANCHOR SYSTEM, USING 19mm DIAMETER HAS-E RODS WITH A 170mm EMBEDMENT, FOR AN ALLOWABLE (UNFACTORED) SHEAR LOAD OF 35 kN AND TENSION LOAD OF 40 kN PER ANCHOR.

WOOD FRAMING

1. SAWN TIMBER SHALL BE IN ACCORDANCE WITH:
   -CSA STANDARDS CAN/CSA-O86-14, "ENGINEERING DESIGN IN WOOD"
   -THE CANADIAN WOOD COUNCIL "WOOD DESIGN MANUAL 2015"
   -THE NBCC 2015
   -THE OBC 2012
2. ALL GLULAM SHALL BE SPRUCE-PINE 20f-E STRESS GRADE. THE GLULAM SHALL MEET THE MEMBER MINIMUM RESISTANCES IN THE WOOD GLULAM BEAM SCHEDULE. FOR THE GLULAM FINISH COATING REQUIREMENTS, REFER TO THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
3. THE WOOD GLULAM CONNECTIONS SHALL BE IN ACCORDANCE WITH CSA STANDARD CAN/CSA-O86-14 ENGINEERING DESIGN IN WOOD, TO THE DIMENSIONS, DETAILS, AND DESIGN LOAD CRITERIA SHOWN ON THE DRAWINGS. SHOP DRAWINGS OF THE WOOD GLULAM MEMBERS AND CONNECTION DETAILS, SHALL BEAR THE STAMP OF A REGISTERED PROFESSIONAL ENGINEER OF THE PROVINCE OF ONTARIO AND SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW BEFORE FABRICATION.
4. ALL STRUCTURAL COMPOSITE LUMBER, SUCH AS LAMINATED VENEER LUMBER (LVL), SHALL BE DESIGNED IN ACCORDANCE WITH CSA STANDARD CAN/CSA-O86-14 "ENGINEERING DESIGN IN WOOD" TO THE MINIMUM DESIGN LOADS SHOWN ON THE DRAWINGS. PROVIDE ALL NECESSARY FASTENERS AND BLOCKING/BRIDGING FOR THE LVL BEAM SYSTEM TO RESIST THE DESIGN LOADINGS. SHOP DRAWINGS OF THE LVL BEAMS SHALL BEAR THE STAMP OF A REGISTERED PROFESSIONAL ENGINEER OF THE PROVINCE OF ONTARIO AND SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW BEFORE FABRICATION.
5. ALL OTHER WOOD FRAMING SHALL BE GRADE S-P-F NO.1/2 OR BETTER, U.N.O.
6. ALL TIMBER SHALL BE WELL SEASONED OR KILN DRIED TO PREVENT POSSIBLE DISTORTION OF THE FRAMING.
7. PROVIDE METAL TIE-DOWN ANCHORS TO THE ROOF JOISTS FOR THE NET FORCES DUE TO UPLIFT.
8. THE STRUCTURAL SYSTEM SHALL BE ADEQUATELY BRACED BY THE CONTRACTOR DURING ERECTION.
9. BUILT-UP LINTEL BEAMS SHALL BE IN ACCORDANCE WITH THE CANADIAN WOOD COUNCIL WOOD DESIGN MANUAL 2015.
10. ALL SAWN TIMBER CONNECTORS SUCH AS STEEL BRACKETS, SEATS, ANCHORS, AND THRU-BOLTS, SHALL BE GALVANIZED.

DESIGN NOTES:

ENVIRONMENTAL LOADS FOR WIARTON, ONTARIO:

1. BUILDING IMPORTANCE CATEGORY, NORMAL.
2. LIVE LOAD DUE TO SNOW (1/50):

   Is = 1.00 FOR ULTIMATE LIMIT STATES (ULS)
   Is = 0.90 FOR SERVICEABILITY LIMIT STATES (SLS)
   Ss = 2.70 kPa, Sr = 0.40 kPa, BASIC ROOF SNOW; S = 2.56 kPa

   SNOW ACCUMULATION TO BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2015, AND THE NATIONAL BUILDING CODE 2010 STRUCTURAL COMMENTARIES (PART 4).
3. ONE DAY RAIN (1/50): 103mm
4. LIVE LOAD DUE TO WIND:

   Iw= 1.00 FOR ULTIMATE LIMIT STATES (ULS)
   Iw = 0.75 FOR SERVICEABILITY LIMIT STATES (SLS)
   q(1/10) = 0.37 kPa, q(1/50) = 0.48 kPa, INTERNAL PRESSURE CATEGORY 2.

   WIND PRESSURES ARE TO BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2015, AND PRESSURE COEFFICIENTS FROM THE NATIONAL BUILDING CODE 2010 STRUCTURAL COMMENTARIES (PART 4).
5. LIVE LOAD DUE TO SEISMIC:

   Ie = 1.0 FOR ULTIMATE LIMIT STATES (ULS)
   Sa(0.2) = 0.110, Sa(0.5) = 0.083, Sa(1.0) = 0.053,
   Sa(2.0) = 0.018, PGA = 0.036

   SOIL SITE CLASS 'D'

BUILDING LOADS:

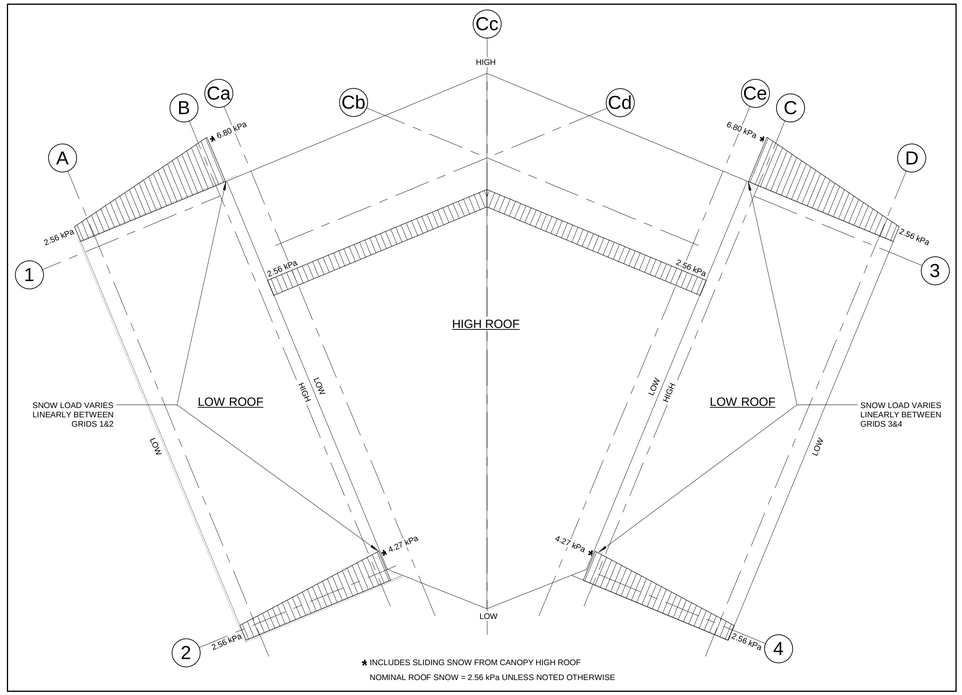
6. ROOF DEAD LOAD:

METAL ROOFING	0.15 kPa
ICE SHIELD/INSULATION	0.10 kPa
19mm PLYWOOD DECKING	0.15 kPa
ROOF PURLINS	0.20 kPa
ROOF BEAMS	0.20 kPa
ADDITIONAL LOAD ALLOWANCE	0.20 kPa
TOTAL DL:	1.00 kPa

7. FLOOR LIVE LOAD = 4.8 kPa
8. SOLAR PANEL SUPPORT POLE FORCES AT POLE BASE (UNFACTORED):
   MOMENT = 65 kN-m (47,950 FT-LBS)
   HORIZONTAL SHEAR = 10 kN (2,250 LBS)

   LOADS BASED ON PRELIMNARY DESIGN OF A 7.2m TALL POLE. CONFIRM FINAL LOADING FROM POLE SUPPLIER / SHOP DRAWINGS PRIOR TO CONSTRUCTING FOUNDATIONS.
9. APPROXIMATE BEDROCK DEPTHS AT PROPOSED WASHROOM LOCATIONS:

   (FOR MORE ACCURATE TESTHOLE INFORMATION, REFER TO THE GEOTECHNICAL REPORT)



1 / A6 S1 SNOW LOAD DIAGRAM
1 : 75

NO.	DATE	DESCRIPTION	Drawn By/ Dessine par	Approved / Approuve
1	2018-08-16	ISSUED FOR TENDER	JA	AW

REVISIONS

A Detail Number / A Numero de Detail
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STRUCTURAL - GENERAL NOTES AND DESIGN NOTES

Plot Scale / Echelle: As indicated

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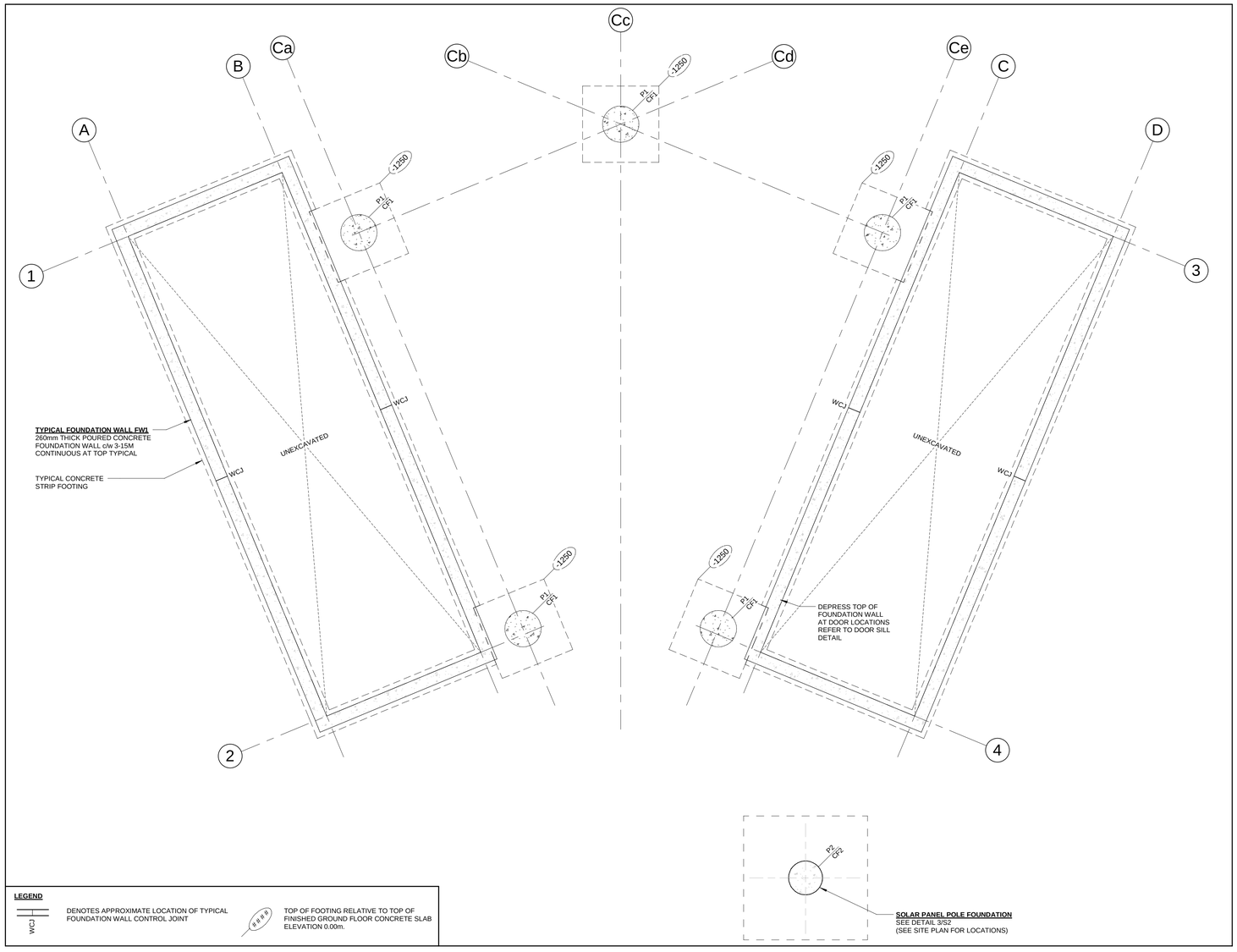
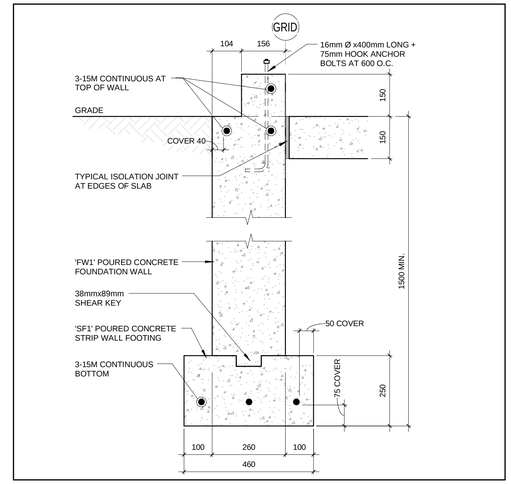
Checked by/ Verife par: MM — Date: 2018-07-06

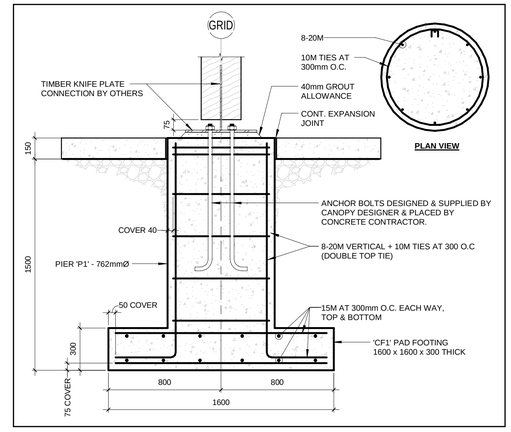
Project No./No. du projet: 60576731 — Asset No.: — Sheet No./ Feuille No.: S1
Drawing Re No./No. du Dessin



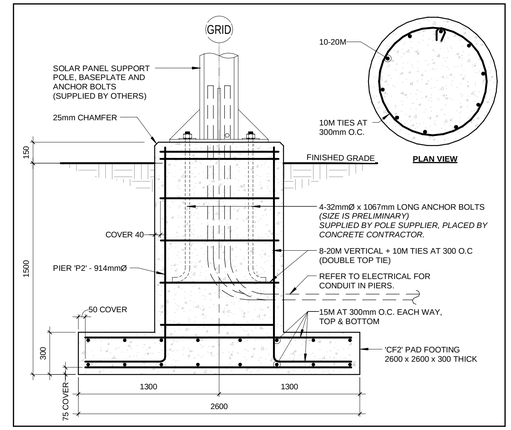
1 / A8 / S2 FOUNDATION PLAN
1 : 50



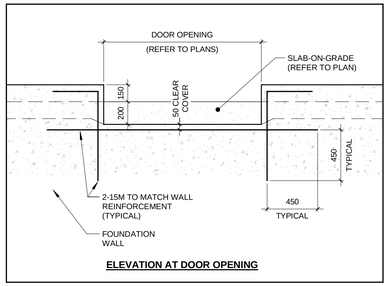
22 / S2 'FW1' FOUNDATION WALL
1 : 10



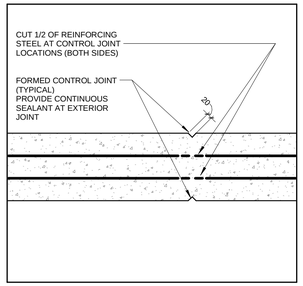
3 / S2 CANOPY PIER 'P1' & FOOTING 'CF1'
1 : 20



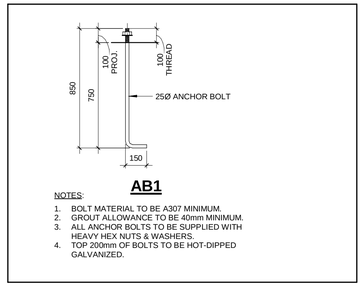
4 / S2 SOLAR PANEL POLE PIER 'P2' & FOOTING 'CF2'
1 : 20



5 / S2 FOUNDATION REINFORCING AT DOOR SILL
1 : 25



6 / S2 WALL CONTROL JOINT
1 : 10



7 / S2 ANCHOR BOLT DETAIL
1 : 20

NO.	DATE	DESCRIPTION	Drawn By / Dessine par	Approved / Approuve
1	2018-08-16	ISSUED FOR TENDER	JA	AW

REVISIONS

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Parcs Canada / Parks Canada

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PARKS CANADA

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CYPRUS LAKE - HEAD OF TRAILS RENEWAL

Drawing title / Titre du Dessin
STRUCTURAL - FOUNDATION PLANS & DETAILS

Plot Scale / Echelle
As indicated

Drawn by / Dessin par: JA
Date: 2018-06-25

Field Recording by / Releve-Temoin par:
Date: N/A

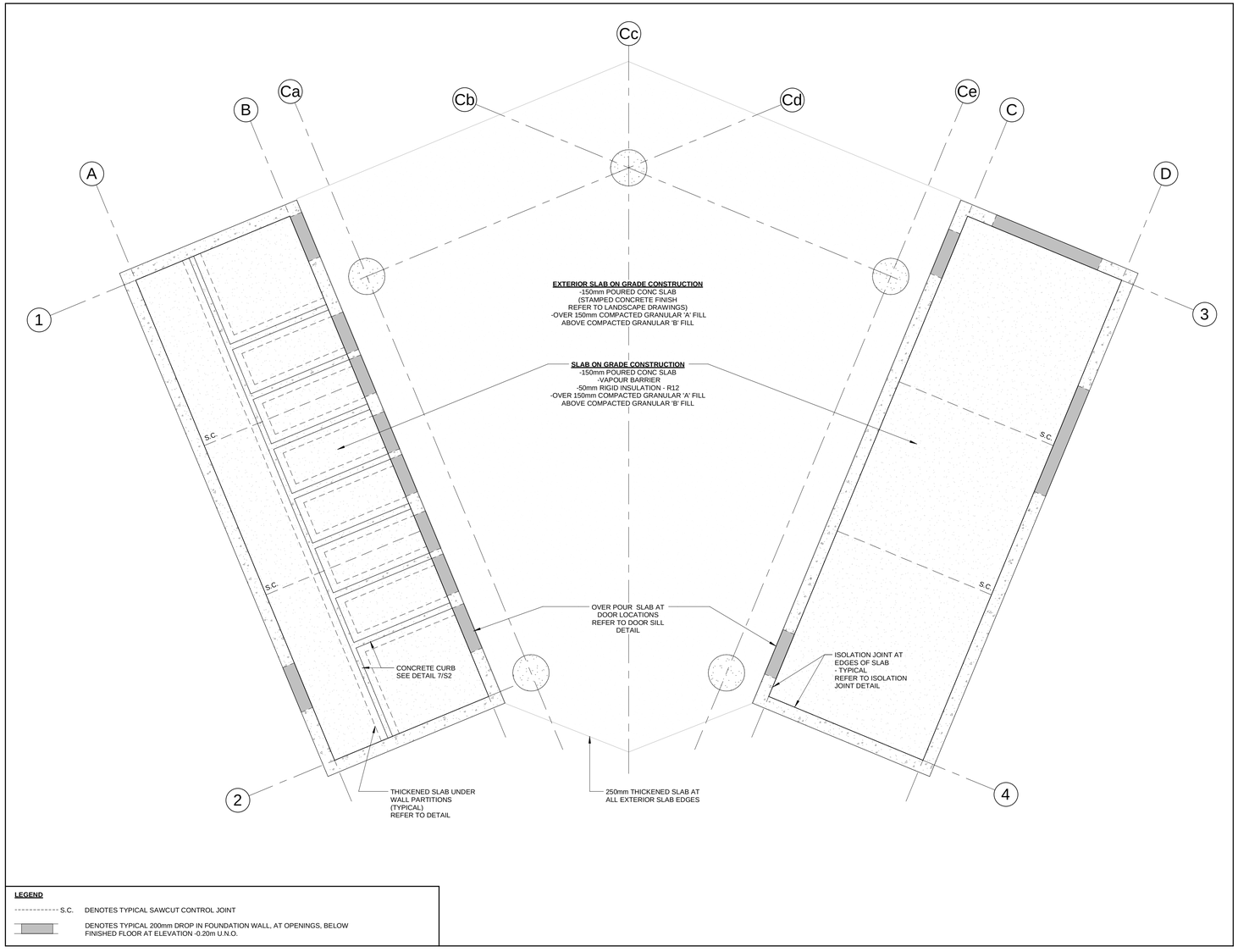
Approved by / Approuve par: AW
Date: 2018-07-06

Checked by / Verife par: MM
Date: 2018-07-06

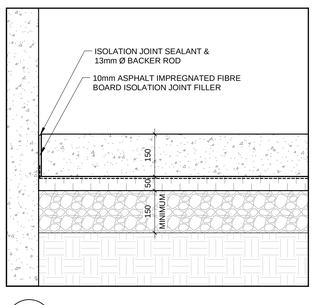
Project No. / No. du projet: 60576731
Asset No.
Drawing Re No. / No. du Dessin
Sheet No. / Feuille No.: S2

DRAWING NO. | DRAWING NAME

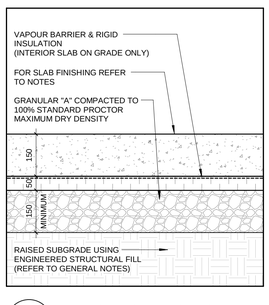
REFERENCE DRAWINGS



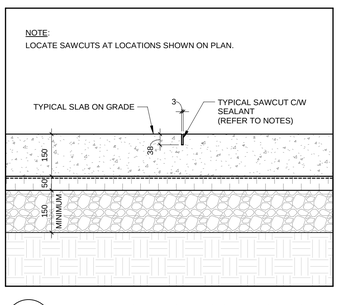
1 A6 / S3 — SLAB ON GRADE PLAN
1 : 50



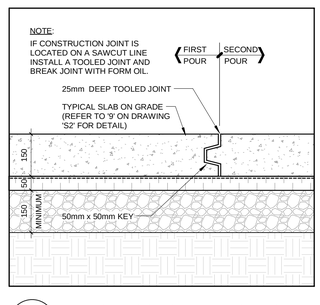
14 / S3 — TYPICAL SLAB ISOLATION JOINT
1 : 10



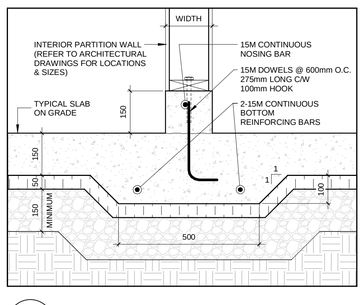
11 / S3 — TYPICAL SLAB-ON-GRADE
1 : 10



12 / S3 — TYPICAL SAW-CUT CONTROL JOINT
1 : 10



13 / S3 — TYPICAL CONSTRUCTION JOINT
1 : 10



3 / S3 — THICKENED SLAB & CURB
1 : 10

NO.	DATE	DESCRIPTION	Drawn By / Dessine par	Approved / Approuve
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STRUCTURAL - SLAB ON GRADE PLANS & DETAILS

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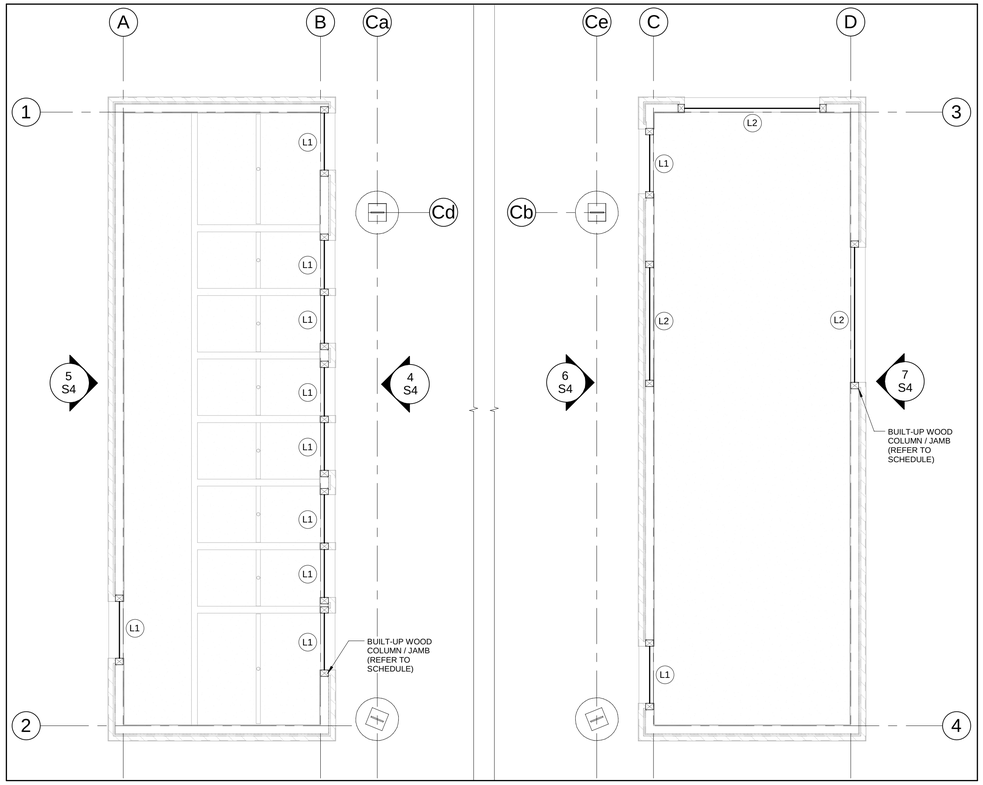
Sheet No. / Feuille No.: S3



1 A6 S4 LINTEL PLANS

1 : 50

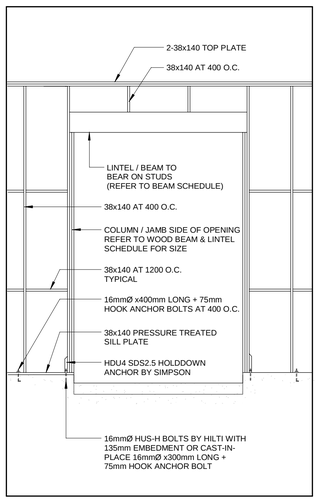
2 A6 S4 ROOF FRAMING PLANS

1 : 50

WOOD BEAM AND LINTEL SCHEDULE

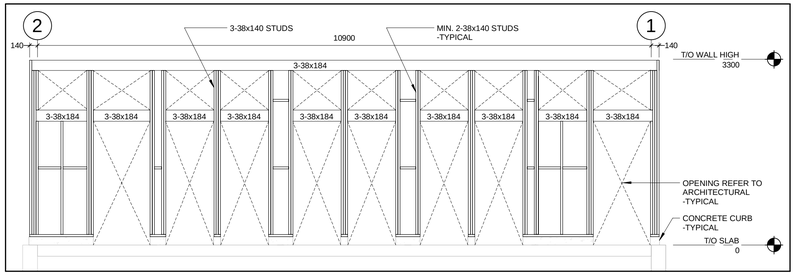
MARK	BEAM SIZE	Mr.... kN.m	Vr.... kN	Esl min. x10^9...	COLUMNS AT BEAM ENDS	BEAM END BEARING
L1	2-38x184	-	-	-	3-PLY 38x140	1 STUD *
L2	2-44x184 LVL	17.4	36	620	3-PLY 38x140	2 STUDS *

* *PROVIDE END BEARING SPECIFIED IN TABLE OR EQUIVALENT HANGER / BRACKET SUPPORT.*



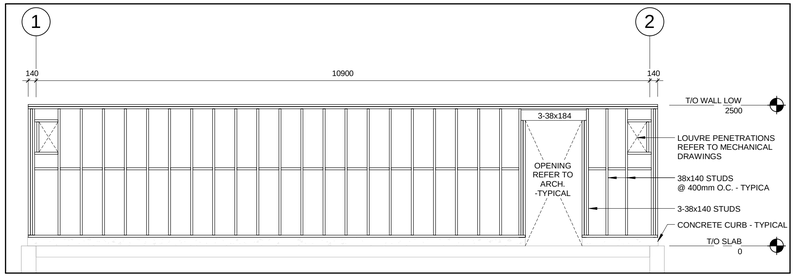
3 S4 TYPICAL WOOD LINTEL FRAMING

N.T.S.



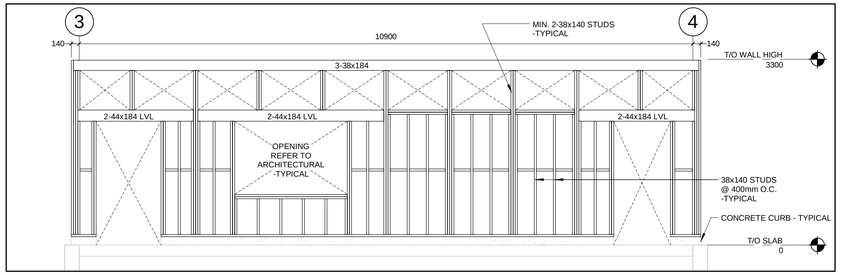
4 S4 S4 FRAMING ELEVATION - GRID B

1 : 50



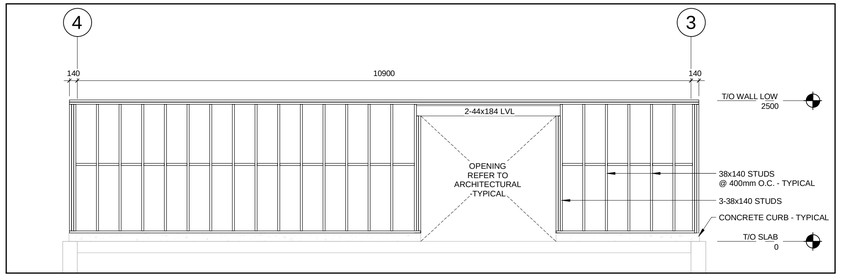
5 S4 S4 FRAMING ELEVATION - GRID A

1 : 50



6 S4 S4 FRAMING ELEVATION - GRID C

1 : 50



7 S4 S4 FRAMING ELEVATION - GRID D

1 : 50

DRAWING NO. DRAWING NAME

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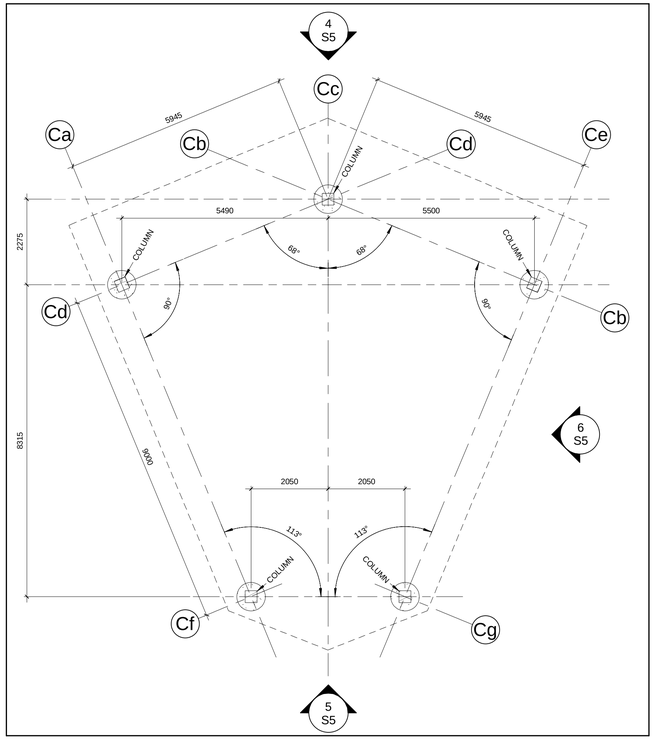
CYPRUS LAKE - HEAD OF TRAILS RENEWAL

Drawing title / Titre du Dessin

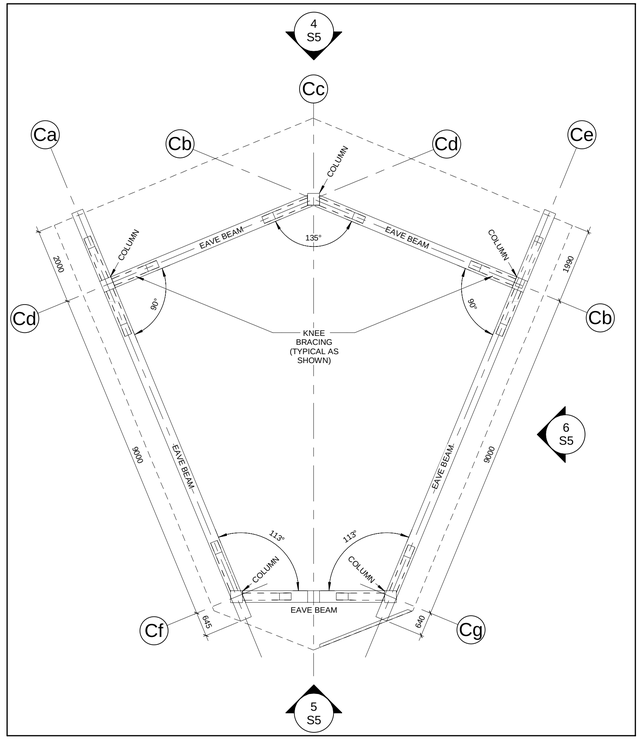
STRUCTURAL - LINTEL & ROOF FRAMING PLANS

Plot Scale / Echelle: 1 : 50

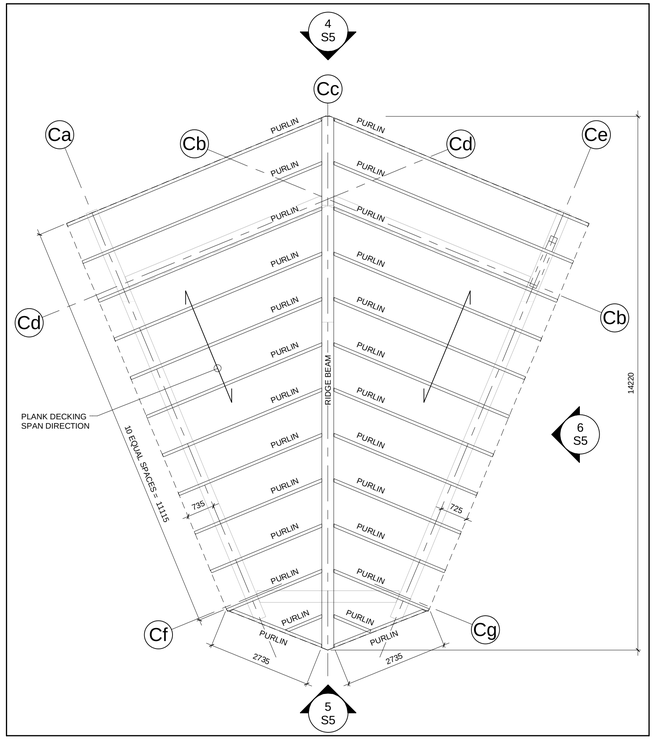
Drawn by / Dessin par: JA	Date: 2018-06-25
Field Recording by / Releve-Temoin par:	Date: N/A
Approved by / Approuve par: AW	Date: 2018-07-06
Checked by / Verife par: MM	Date: 2018-07-06
Project No./No. du projet: 60576731	Asset No.
Drawing Re No./No. du Dessin	Sheet No./ Feuille No.: S4



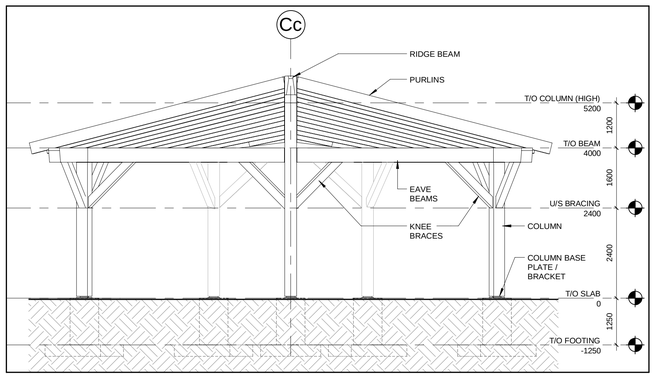
1 FRAMING PLAN @ COLUMN BASE PLATE
A6 S5 — 1 : 75



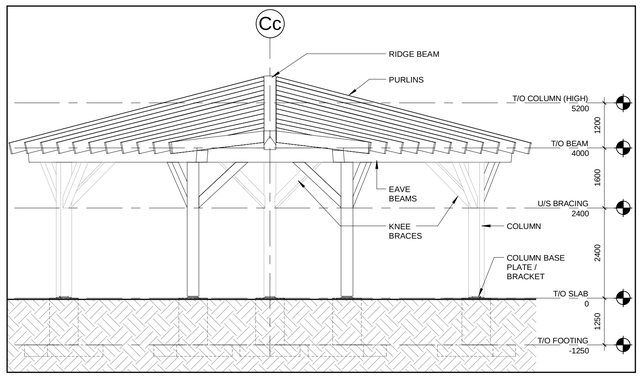
2 FRAMING PLAN @ LOW BEAMS
A6 S5 — 1 : 75



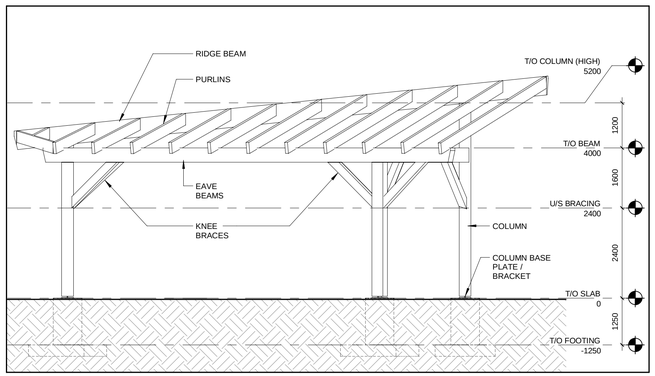
3 FRAMING PLAN @ RIDGE
A6 S5 — 1 : 75



4 ELEVATION I - CANOPY
SS SS — 1 : 75



5 ELEVATION II - CANOPY
SS SS — 1 : 75



6 ELEVATION III - CANOPY
SS SS — 1 : 75

WOOD CANOPY DESIGN LOADS

1. REFER TO THE ENVIRONMENTAL DESIGN LOADS ON DRAWING S1.

2. ROOF DEAD LOAD:

STANDING SEAM ROOFING	0.15 kPa
ICE SHIELD	0.05 kPa
38mm PLANK DECKING	0.30 kPa
ROOF PURLINS	0.10 kPa
ROOF BEAMS	0.20 kPa
ADDITIONAL LOAD ALLOWANCE	0.20 kPa
TOTAL DL:	1.00 kPa

3. ALLOWABLE VERTICAL DEFLECTION, BASED ON UNFACTORED LOADS, SHALL BE:
   L/180 FOR TOTAL LOAD
   L/240 FOR SNOW LOAD

WOOD CANOPY DESIGN AND FRAMING

1. WOOD FRAMING DESIGN AND FRAMING SHALL BE IN ACCORDANCE WITH:
-CSA STANDARDS CAN/CSA-O86-14, "ENGINEERING DESIGN IN WOOD"
-THE CANADIAN WOOD COUNCIL "WOOD DESIGN MANUAL 2015"
-THE NBC 2015
-THE OBC 2012

2. THE WOOD CANOPY STRUCTURAL SYSTEM SHALL BE ENGINEERED, DESIGNED, AND BUILT IN ACCORDANCE WITH CSA STANDARD CAN/CSA-O86-14 ENGINEERING DESIGN IN WOOD, TO THE DIMENSIONS, DETAILS, AND DESIGN LOAD CRITERIA SHOWN ON THE DRAWINGS. SHOP DRAWINGS OF THE WOOD CANOPY STRUCTURE, CONNECTION DETAILS, AND WOOD COLUMN BASE REACTIONS AND ANCHORAGE, SHALL BEAR THE STAMP OF A REGISTERED PROFESSIONAL ENGINEER OF THE PROVINCE OF ONTARIO AND SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW BEFORE FABRICATION.

3. THE WOOD CANOPY SYSTEM REGISTERED PROFESSIONAL ENGINEER SHALL PERFORM A GENERAL REVIEW OF THE COMPLETED STRUCTURE AND SUBMIT A LETTER OF GENERAL REVIEW AT THE COMPLETION OF THE PROJECT.

4. THE COLUMN BASE CONNECTION SHALL BE BASED ON A PIN-TYPE CONNECTION (NO TRANSFER OF SIGNIFICANT MOMENT TO THE FOUNDATION PIERS). THE WOOD COLUMN BASE REACTIONS SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW BEFORE FABRICATION. ANCHOR BOLTS SHALL BE DESIGNED AND SUPPLIED TO THE SITE FOR THE FOUNDATION CONSTRUCTION.

5. ALL WOOD FRAMING SHALL BE GLULAM SPRUCE-PINE 20f-E STRESS GRADE. THE FOLLOWING MINIMUM SIZES SHALL BE USED TO ACHIEVE THE DESIRED APPEARANCE OF THE STRUCTURE. THE FINAL DESIGNED SIZES SHALL BE NO LESS THAN THE GIVEN MINIMUM SIZES.

RIDGE BEAM:	315 mm W X 494 mm D
EAVE BEAMS:	315 mm W X 380 mm D
PURLINS:	80 mm W X 304 mm D
COLUMNS:	315 mm W X 304 mm D
KNEEBRACES:	215 mm W X 190 mm D

FOR THE GLULAM FINISH REQUIREMENTS, REFER TO THE ARCHITECTURAL SPECIFICATIONS.

6. THE STRUCTURAL SYSTEM SHALL BE ADEQUATELY BRACED BY THE CONTRACTOR DURING ERECTION.

7. THE ROOF PLANK DECKING SHALL BE TONGUE AND GROOVE 38mm THICK S-P-F, COMMERCIAL GRADE, INSTALLED IN A CONTROLLED RANDOM PATTERN. FOR THE ROOF PLANK DECKING COATING REQUIREMENTS, REFER TO THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

8. ALL WOOD FRAMING CONNECTORS SUCH AS STEEL BRACKETS, SEATS, ANCHORS, AND THRU-BOLTS, SHALL BE DETAILED ON THE SHOP DRAWINGS, AND SHALL HAVE A GALVANIZED FINISH. FOR ADDITIONAL COATING REQUIREMENTS REFER TO THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

DRAWING NO. | DRAWING NAME

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CYPRUS LAKE - HEAD OF TRAILS RENEWAL

Drawing title / Titre du Dessin
STRUCTURAL - TIMBER FRAME CANOPY LAYOUT AND DETAILS

Plot Scale / Echelle: 1 : 75

Drawn by/ Dessin par: JA — Date: 2018-06-25

Field Recording by/ Releve-Temoin par: — Date: N/A

Approved by/ Approuve par: AW — Date: 2018-07-06

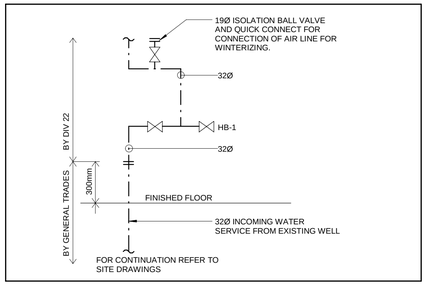
Checked by/ Verife par: MM — Date: 2018-07-06

Project No./No. du projet: 60576731 — Asset No.

Drawing Re No./No. du Dessin: S5 — Sheet No./ Feuille No.

GENERAL NOTES:

1. PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND BULLETINS, ETC., LATEST EDITIONS, AND TO THE LOCAL AUTHORITIES REQUIREMENTS.
2. THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND THE DOCUMENTS PERTAINING TO THE WORK OF OTHER TRADES.
3. OBTAIN EXACT DIMENSIONS FROM SITE MEASUREMENTS. DO NOT SCALE THESE DRAWINGS.
4. CHECK AND VERIFY THE LOCATIONS OF ALL PIPES, DUCTS, AND EQUIPMENT WITH THE WORK OF OTHER TRADES TO PREVENT INTERFERENCE. REMOVAL AND RELOCATION OF ANY SUCH WORK INTERFERING WITH THE WORK OF OTHER TRADES IS THE RESPONSIBILITY OF THE MECHANICAL TRADE(S), UNLESS OTHERWISE APPROVED IN WRITING.
5. ALL PLUMBING FIXTURES AND DRAINS SHALL BE TRAPPED AND VENTED IN ACCORDANCE WITH THE NATIONAL BUILDING CODE.
6. PROVIDE ONE 75mm DIA. VENT THROUGH ROOF. REFER TO ARCHITECTURAL DRAWING FOR LOCATION.
7. PARKS CANADA SHALL PROVIDE MAIN SHUT-OFF VALVES ON-SITE FOR SEASONAL DRAINING OF WATER DISTRIBUTION NETWORK.



1 / M1 SCHEMATIC - INCOMING WATER SERVICE

N.T.S.

LEGEND - PIPING

REFER	DESCRIPTION
	DOMESTIC COLD WATER PIPING
V	VENT PIPING
	SANITARY PIPING ABOVE FLOOR
	SANITARY PIPING BELOW FLOOR
	TEE
	ELBOW - 90°
	ELBOW - 45°
	WYE
	REDUCER / INCREASER
	UNION
	FLANGE
	CAPPED PIPE
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
CO	CLEAN OUT (IN FLOOR)
CO	CLEAN OUT (IN LINE OR STACK)
	PIPE DOWN
	PIPE UP
OR	PIPE TEE
	ISOLATION VALVE
	STRAINER
DC	DRAIN COCK
HB	HOSE BIB C/W VACUUM BREAKER
WH	WALL HYDRANT
PH	POST HYDRANT
BWV	BACK WATER VALVE
VTR	VENT THROUGH ROOF
FEX	PORTABLE FIRE EXTINGUISHER (WALL HUNG / SURFACE MOUNTED)
FEC	PORTABLE FIRE EXTINGUISHER IN CABINET

LEGEND - HVAC

REFER	DESCRIPTION
	NEW DUCT WORK
	SIDEWALL GRILLE
	RETURN/EXHAUST GRILLE
	FULL RADIUS DUCT CONNECTION
	TAP-IN DUCT CONNECTION
	ROUND DUCT CONNECTION
	TURNING VANES
BD	BALANCING DAMPER
VD	VOLUME DAMPER
SP	SPLITTER DAMPER
UC	UNDERCUT
CAP	CAP

LEGEND - SYMBOL TAG

SYMBOL	DESCRIPTION	EQUIPMENT TAG
TYPE / LPS	TYPE AIR FLOW	DIFFUSER, GRILLE, AND LOUVRE TAG

FAN SCHEDULE

TAG	LOCATION	FUNCTION	MANUFACTURER	MODEL	FAN TYPE	MAXIMUM CAPACITY		STATIC PRESSURE		FAN RPM	NOMINAL MOTOR POWER		MAX. BHP	POWER	SOUND DATA	CONTROLLED BY	REMARKS
						LPS	CFM	Pa	IN WC		W	HP					
EF-1 & EF-2	MECHANICAL ROOM	SANITARY EXHAUST	GREENHECK	SQ-90-D	INLINE CENTRIFUGAL FAN DIRECT DRIVE	155	330	107	0.43	1465	75	1/10	0.06	115/1/60	6.7 SONES	FAN TIMER CONTROL PANEL	C/W UNIT MOUNTED SPEED CONTROLLER AND DISCONNECT SWITCH

GRILLE SCHEDULE

TAG	MANUFACTURER	MODEL	APPLICATION	SIZE		AIR FLOW		MAXIMUM NC RANGE	REMARKS
				MM	INS	LPS	CFM		
DG1	KRUEGER	9700A - H - 16x8 - 304	DOOR GRILLE	400 x 200	16 x 8	33 TO 46	70 TO 100	15	STAINLESS STEEL 304 DOOR GRILLE WITH 25mm BLADE SPACING, C/W STAINLESS STEEL 304 AUXILIARY FRAME
E1	KRUEGER	S85 - H - 6x6 - F22 - NONE - 00 - 01 - 00 - 44	SIDEWALL GRILLE	150 x 150	6 x 6	23 TO 33	50 TO 70	22	STEEL RETURN AIR GRILLE WITH 35° FIXED HORIZONTAL FRONT BLADES, 12mm BLADE SPACING, STEEL OPPOSED BLADE DAMPER AND BRITISH WHITE FINISH. PROVIDE SRAC325 SQUARE TO ROUND ADAPTER WITH DIMENSIONS 150mm X 150mm (6"X6") TO 150mm (6") DIA. FOR EACH GRILLE.

LOUVRE SCHEDULE

TAG	MANUFACTURER	MODEL	APPLICATION	SIZE (W x H)		AIR FLOW		FREE AREA	PRESSURE DROP		REMARKS
				MM	INS	LPS	CFM	%	Pa	IN.WG.	
L1	GREENHECK	SED-501	EXHAUST LOUVRE	300 x 500	20 x 12	155	330	38	25	0.100	5" (125mm) DEEP DRAINABLE HEAD AND BLADE WITH FLANGED FRAME, C/W INSECT SCREEN

PLUMBING FIXTURE CONNECTION SCHEDULE

TAG	FIXTURE NAME	SANITARY		VENT		DCWS		REMARKS
		MM	INS	MM	INS	MM	INS	
W-1	BARRIER-FREE FLUSH TANK WATERCLOSET	75	3	38	1.5	13	0.5	
W-2	FLUSH TANK WATERCLOSET	75	3	38	1.5	13	0.5	
L-1	BARRIER-FREE WALL MOUNTED LAVATORY	38	1.5	38	1.5	13	0.5	
L-2	WALL MOUNTED LAVATORY	38	1.5	38	1.5	13	0.5	
S-1	FLOOR MOUNTED MOP SINK	75	3	38	1.5	13	0.5	
FD	FLOOR DRAIN	75	3	38	1.5	-	-	COMPLETE WITH AIR TRAP SEAL GUARD
TD-1	TRENCH DRAIN	75	3	38	1.5	-	-	COMPLETE WITH AIR TRAP SEAL GUARD
TD-2	TRENCH DRAIN	75	3	38	1.5	-	-	COMPLETE WITH AIR TRAP SEAL GUARD
BF-1	EXTERIOR WALL MOUNTED BOTTLE FILLING STATION	38	1.5	38 *	1.5 *	13	0.5	* AIR ADMITTANCE VALVE
WH-1	WALL HYDRANT	-	-	-	-	19	0.75	COMPLETE WITH VACUUM BREAKER
HB-1	INDOOR HOSE BIBB	-	-	-	-	19	0.75	COMPLETE WITH VACUUM BREAKER

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MECHANICAL - LEGEND, GENERAL NOTES, SCHEMATICS AND SCHEDULES

Plot Scale / Echelle: As indicated

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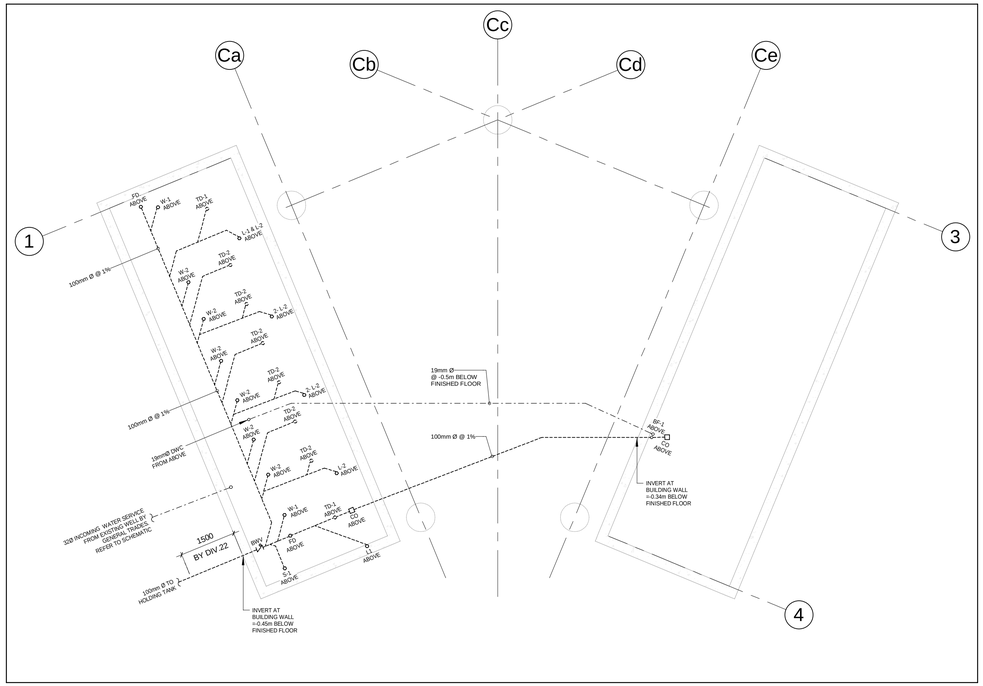
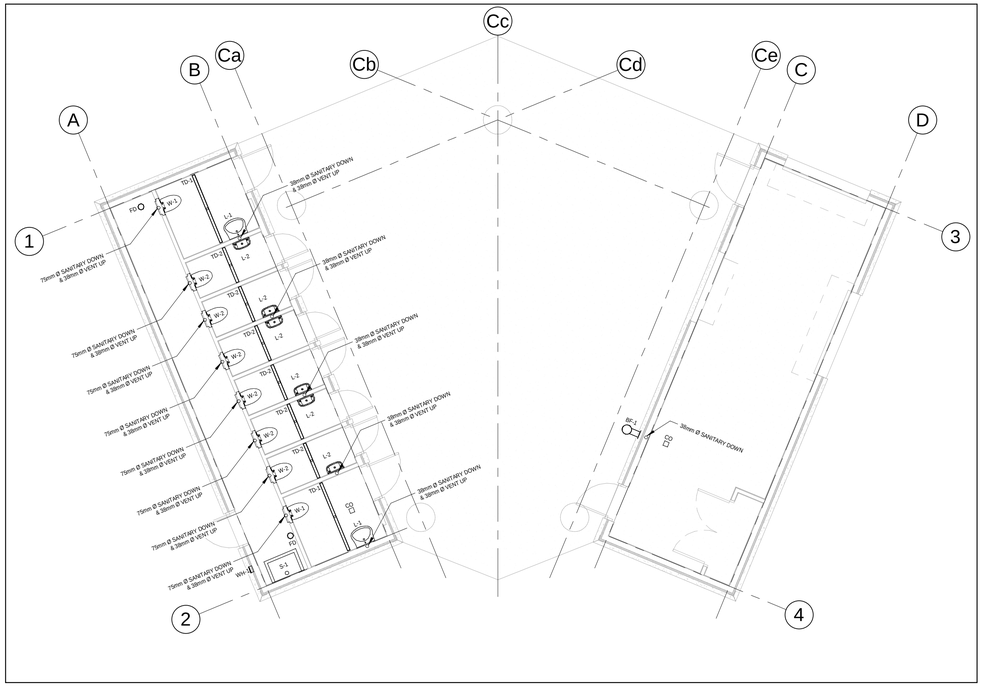


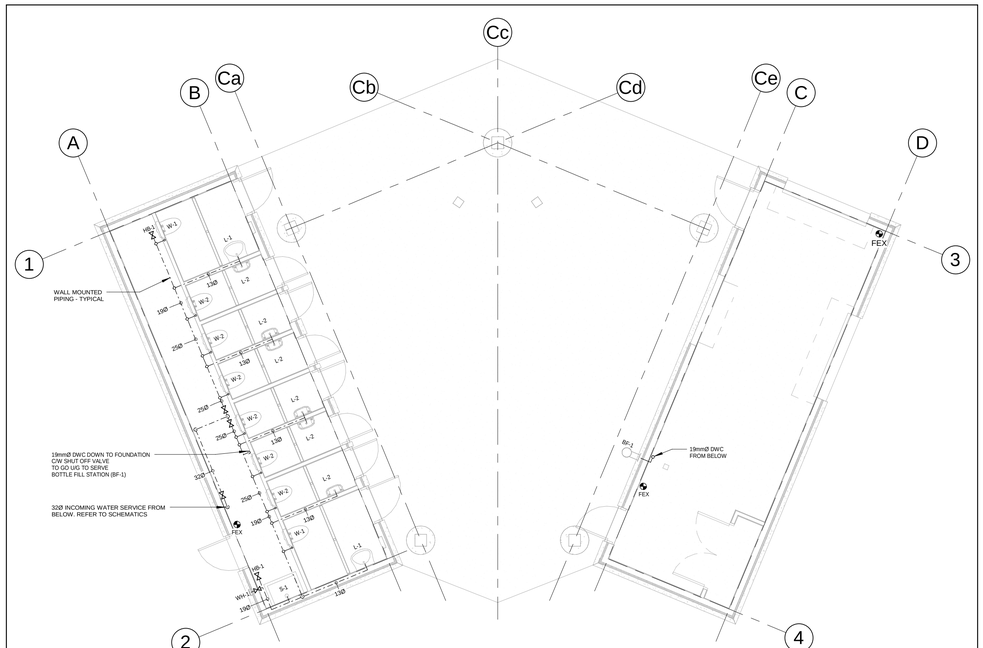
1 A0 M2 — FOUNDATION PLAN - PLUMBING

1 : 75



2 A0 M2 — GROUND FLOOR PLAN - SANITARY AND VENTING LAYOUT

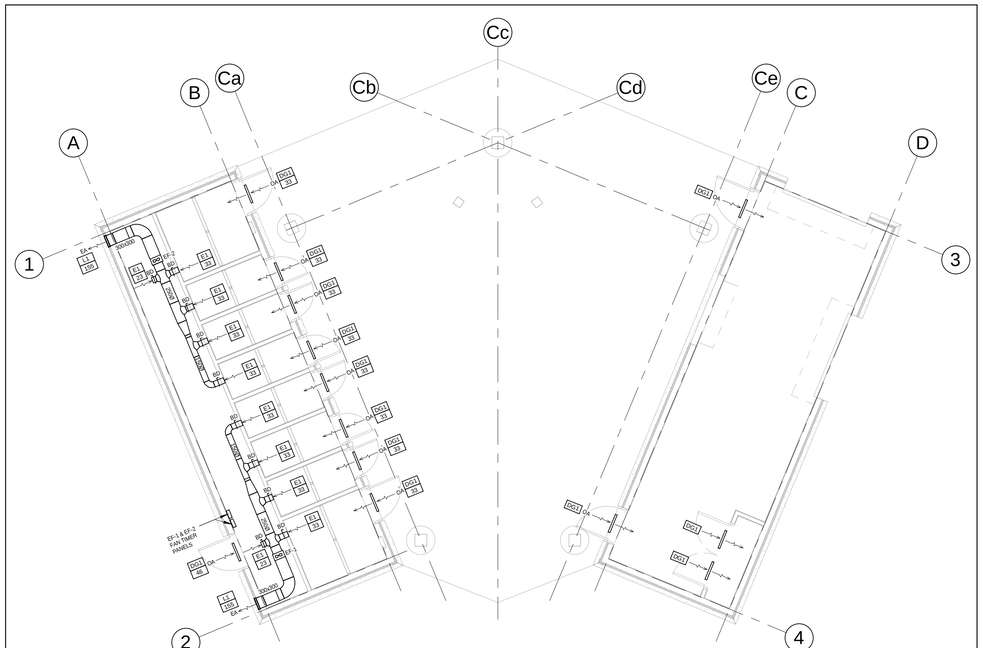
1 : 75



NOTES:
1. ALL HORIZONTAL PIPES SHALL BE SLOPED.
2. PROVIDE HOSE BIBS FOR SEASONAL DRAINING AT LOWEST POINTS AS SHOWN IN ABOVE PLAN.
3. PROVIDE ADDITIONAL HOSE BIBS AS REQUIRED TO ADEQUATELY DRAIN SYSTEM.

3 A0 M2 — GROUND FLOOR PLAN - POTABLE WATER

1 : 75



NOTES
1. ALL AIR FLOW RATES ARE LITERS PER SECOND.
2. BOTTOM LEVEL OF ALL EXHAUST GRILLES SHALL BE AT 2200mm A.F.F.
3. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATION OF LOUVRES AND DOOR GRILLES.

4 A0 M2 — GROUND FLOOR PLAN - VENTILATION

1 : 75

DRAWING NO. | DRAWING NAME

REFERENCE DRAWINGS

NO.	DATE	DESCRIPTION	Drawn by/ Dessine par	Approved / Approuve
1	2018-08-16	ISSUED FOR TENDER	JA	BJ

REVISIONS

A Detail Number / A Numero de Detail
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LINEAR DIMENSIONS IN MILLIMETERS / Dimensions lineaires en millimetres

Parcs Canada / Parks Canada

Canadä

PARKS CANADA

Type of Record / Type d'enregistrement

Project title / Titre du projet
CYPRUS LAKE - HEAD OF TRAILS RENEWAL

Drawing title / Titre du Dessin
MECHANICAL - PLUMBING & DRAINAGE AND HVAC PLANS

Plot Scale / Echelle
1 : 75

Drawn by/ Dessin par: JA — Date: 2018-07-25

Field Recording by/ Releve-Temoin par — Date:

Approved by/ Approuve par: BJ — Date: 2018-07-25

Checked by/ Verife par: BG — Date: 2018-07-25

Project No./No. du projet: 60576731 | Asset No.

Drawing Re No./No. du Dessin

Sheet No./ Feuille No.: M2

ELECTRICAL ABBREVIATIONS

A

AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
A,AMP	AMPERE
ASM	AMBIENT SENSING MICROPHONE
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE

C

C	CONDUIT
CB	CIRCUIT BREAKER
CU	COPPER

D

DC	DIRECT CURRENT
DN	DOWN
DO	DOOR OPENERS

E

E	EXISTING DEVICE/EQUIPMENT TO REMAIN
E/R	EXISTING DEVICE/EQUIPMENT TO BE RELOCATED OR REPLACED (AS NOTED)
EC	EMPTY CONDUIT
ELEC	ELECTRICAL
ELEV	ELEVATION
EXP	EXPLOSION PROOF

F

FU	FUSE

G

G.GRD	GROUND
GFI	GROUND FAULT INTERRUPTING
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRS	GALVANIZED RIGID STEEL

H

HH	HAND HOLE
HDG	HOT DIPPED GALVANIZED
HT	HEIGHT
HTR	HEATER
HZ	HERTZ

I

INST	INSTANTANEOUS

L

LP	LIGHTING PANEL

M

MTG	MOUNTING
MTD	MOUNTED

N

NC	NORMALLY CLOSED
NO	NORMALLY OPEN OR NUMBER
NTS	NOT TO SCALE

O

OBC	ONTARIO BUILDING CODE
OESC	ONTARIO ELECTRICAL SAFETY CODE
OL	OVERLOAD

P

P	POLE
PH	PHASE
PR	PAIR
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

R	EXISTING DEVICES/EQUIPMENT TO BE REMOVED
REC	RECEPTACLE

S

ST.STEEL	STAINLESS STEEL
SN	SOLID NEUTRAL
SW	SWITCH

T

TL	TWIST LOCK
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TW	TWISTED
TYP	TYPICAL

U

UG	UNDERGROUND
ULC	UNDERWRITERS LABORATORIES OF CANADA

V

V	VOLTS

W

W	WIRE
WG	WIRE GUARD
WP	WEATHER PROOF
W.I.P.	WORK IN PROGRESS

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	PANELS, FLUSH OR SURFACE MOUNTED. 'A' DENOTES PANEL NAME.		WALL MOUNTED EMERGENCY LIGHTING SINGLE REMOTE HEAD CONNECTED TO EMERGENCY BATTERY UNIT AS INDICATED.
	120V-1P CONNECTION TO EQUIPMENT AS NOTED C/W DISCONNECT SWITCH		WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEADS CONNECTED TO EMERGENCY BATTERY UNIT AS INDICATED.
	DIRECT CONNECTION TO EQUIPMENT		COMBINATION EMERGENCY LIGHTING (TWIN HEAD) AND EXIT SIGN
	DISCONNECT SWITCH		
	MANUAL STARTER	EXIT	CEILING MOUNTED EXIT LIGHT SIGN. ARROWS DENOTE DIRECTION
	COMBINATION MAG	EXIT	WALL MOUNTED EXIT LIGHT SIGN. ARROWS DENOTE DIRECTION
M	1-PHASE MOTOR CONNECTION		120V, 15AMP SINGLE POLE TOGGLE SWITCH (3 INDICATES 3-WAY , 4 INDICATES 4 WAY, 20 INDICATES 20 AMP).
M	3-PHASE MOTOR CONNECTION	EF	SINGLE POLE EXHAUST FAN SWITCH WITH RED PILOT LIGHT
	PUSHBUTTON		15A, 125V, DUPLEX RECEPTACLE (CSA 5-15R)
	EQUIPMENT OR DEVICE AS NOTED	20	20A, 125V, DUPLEX RECEPTACLE (CSA 5-15R)
	FUSE		15A, 125V, GROUND FAULT INTERRUPTING DUPLEX RECEPTACLE. (CSA 5-15R)
	DISCONNECT SWITCH		15A, 125V, DUPLEX RECEPTACLE, SPLIT CIRCUIT (CSA 5-15R)
	CIRCUIT BREAKER		15A, 125V, QUAD RECEPTACLE (2X CSA 5-15R)
	TRANSFORMER		WALL MOUNTED SINGLE RECEPTACLE. AMPS, VOLTS AND CSA CONFIGURATION AS NOTED.
AC1	EQUIPMENT TAG NO. MOUNTED ON WALL/FLOOR		TELEPHONE OUTLET. PROVIDE 21mmC (3/4"C) FROM WALL OUTLET TO ACCESSIBLE CEILING SPACE UNLESS OTHERWISE NOTED.
AC-1	EQUIPMENT TAG NO. MOUNTED ON CEILING		DATA OUTLET. PROVIDE 21mm C (3/4"C) FROM WALL OUTLET TO ACCESSIBLE CEILING SPACE UNLESS OTHERWISE NOTED.
1 & 1	NOTE TAGS		DATA / TELEPHONE OUTLET
3 E03	DETAIL No.3 ON DRAWING E03	OR G	
			GROUND BONDING POINT TO STEEL STRUCTURE, REBAR, PIPE, ETC.
A	CEILING SUSPENDED LED FIXTURE, 'A' DENOTES TYPE, REFER TO SCHEDULE.		GROUNDING CONNECTION (TYPE AS SHOWN OR NOTED)
A	LED WALL PACK. 'A' DENOTES TYPE, REFER TO SCHEDULE.		GROUND BAR
	WALL MOUNTED DIGITAL LIGHTING SWITCH AND OCCUPANCY SENSOR		UNDERGROUND CONDUIT ELECTRODE OR GROUND PLATE
OS	CORNER MOUNT DIGITAL OCCUPANCY SENSOR		POTENTIAL TRANSFORMER
OS	CEILING MOUNTED DIGITAL OCCUPANCY SENSOR		CURRENT TRANSFORMER
DLS	DAYLIGHT SENSOR (DIGITAL LIGHT MANAGEMENT)	JB	JUNCTION BOX, NEMA 4X PVC COATED HDG STEEL, C/W BRACKET ACCESSORIES
RC	DIGITAL LIGHT MANAGEMENT - ROOM CONTROLLER (RC). NUMBER INDICATES QUANTITY OF ENCLOSED RELAY CIRCUITS.		SOLAR PANEL 300W -24VDC, C/W STAINLESS STEEL FASTENERS AND ENGINEERED SUPPORT FRAME STRUCTURE FOR POLE MOUNT.
IR	DIGITAL LIGHT MANAGEMENT - ISOLATED RELAY INTERFACE (IR), ONE CHANGE-OVER DRY RELAY CONTACT		SEALED GEL BATTERY, 24V - 120 Ah

GENERAL NOTES:

1. PERFORM ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF ALL APPLICABLE CODES, STANDARDS AND BULLETINS AND TO THE LOCAL AUTHORITIES REQUIREMENTS.

2. INFORMATION REPRESENTED ON THESE DRAWINGS IS FROM VISUAL FIELD REVIEW. AECOM AND ITS REPRESENTATIVES ARE NOT RESPONSIBLE FOR ANY DISCREPANCIES AND/OR ERRORS. THE CONTRACTOR SHALL VERIFY THE SCOPE OF WORK PRIOR TO PROCEEDING.

3. THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND THE DOCUMENTS PERTAINING TO THE WORK OF OTHER TRADES.

4. OBTAIN EXACT DIMENSIONS FROM SITE MEASUREMENTS. DO NOT SCALE THESE DRAWINGS.

5. PENETRATIONS TO EITHER FIRE AND/OR SMOKE BARRIERS SHALL BE SLEEVED AND SEALED AGAINST THE PASSAGE OF FLAME AND/OR SMOKE WITH A SUITABLE NON-COMBUSTIBLE MATERIAL EQUAL TO THE CONSTRUCTION PENETRATED.

6. CHECK AND VERIFY THE LOCATIONS OF ALL PANELBOARDS, DISCONNECTS, RECEPTACLES, CONDUITS AND EQUIPMENT WITH THE WORK OF OTHER TRADES TO PREVENT INTERFERENCE, REMOVAL AND RELOCATION OF ANY SUCH WORK INTERFERING WITH THE WORK OF OTHER TRADES IS THE RESPONSIBILITY OF THE ELECTRICAL TRADE(S), UNLESS OTHERWISE APPROVED IN WRITING.

7. PROVIDE ACCESS DOORS AS REQUIRED FOR ALL CONCEALED SERVICEABLE COMPONENTS LOCATED ABOVE, BEHIND OR BELOW INACCESSIBLE CONSTRUCTION.

8. RESTORE ALL SURFACES TO PRE-CONSTRUCTION STATE OR AS SHOWN ON LANDSCAPE SITE PLANS, FOLLOWING TRENCHING AND UNDERGROUND DUCT WORK.

DRAWING NO. | DRAWING NAME

REFERENCE DRAWINGS

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CYPRUS LAKE - HEAD OF TRAILS RENEWAL

Drawing title / Titre du Dessin
ELECTRICAL LEGEND AND GENERAL NOTES

Plot Scale / Echelle
AS INDICATED

Drawn by/ Dessin par: JA — Date: 2018-07-25

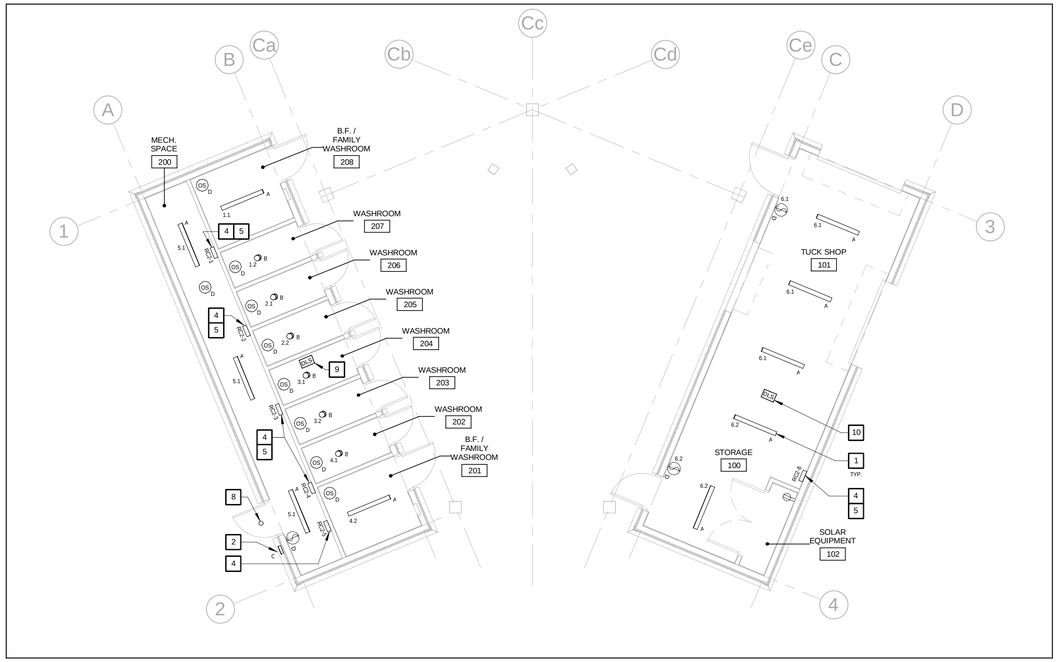
Field Recording by/ Releve-Temoin par — Date:

Approved by/ Approuve par: RP — Date: 2018-07-25

Checked by/ Verife par: MB — Date: 2018-07-25

Project No./No. du projet: 60576731 | Asset No. | Sheet No./ Feuille No.: E1

Drawing Re No./No. du Dessin

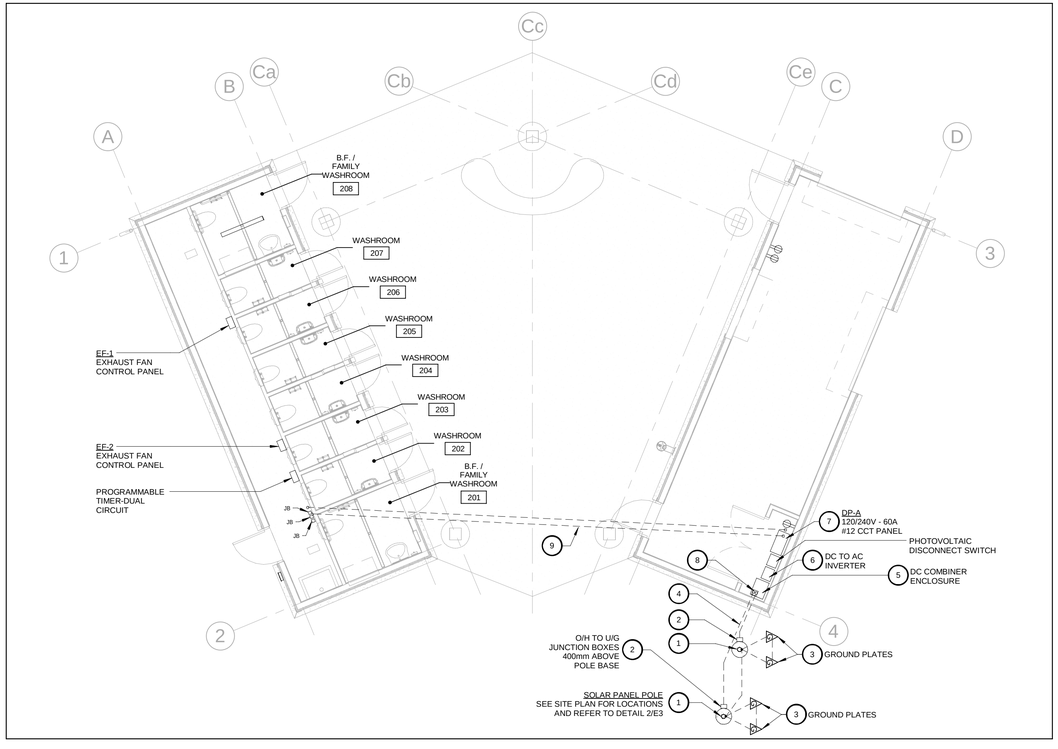


1 A6 E2 LIGHTING PLAN

1 : 75

LIGHTING NOTES:

1. SUPPLY AND INSTALL CEILING SUSPENDED LIGHTING FIXTURES PER SCHEDULE, COMPLETE WITH WIREGUARDS, HANGER SUPPORTS AND AIRCRAFT SAFETY CABLES.
2. SUPPLY AND INSTALL LED WALLPACK COMPLETE WITH WALL ENCASED DEVICE BOX.
3. ALL INDOOR LIGHTING FIXTURES SHALL HAVE 0-10V CAPABLE DIMMABLE DRIVERS.
4. SUPPLY AND INSTALL LIGHTING FIXTURE POWER CIRCUITING 2C#12+GND – AC90. CABLE SUPPORTING MEANS AND OVERALL INSTALLATION TO MEET OESC.
5. SUPPLY AND INSTALL LIGHTING FIXTURE DIMMING CIRCUITING 2C#14+GND-AC90. CABLE SUPPORTING MEANS AND OVERALL INSTALLATION TO MEET OESC.
6. LIGHTING CONTROL SYSTEM TO BE HUBBELL LIGHTING, WITH DAYLIGHTING CONTROLLED PROPORTIONAL DIMMING AND OCCUPANCY SENSOR BASED OPERATION. PROVIDE HUBBELL LIGHTING CONTROLS SHOP DRAWINGS DEMONSTRATING SYSTEM PERFORMANCE.
7. SUPPLY AND INSTALL FT-6 RATED OR ARMOURED CAT.5 CABLING AND RJ45 ADAPTORS FOR LIGHTING CONTROL INTERCONNECTIONS TO ROOM CONTROLLERS. CABLE SUPPORTING MEANS AND OVERALL INSTALLATION TO MEET OESC.
8. SUPPLY AND INSTALL OUTDOOR RATED OCCUPANCY AND DAYLIGHT SENSOR COMBO UNIT HUBBELL CAT.# WSP-LWO-SM-UNV-BK C/W LOW MOUNT OUTDOOR LENSE , HALF AISLE COVERAGE OPTION. SENSOR TO BE SOFFIT MOUNTED.
9. PROVIDE DAYLIGHT SENSOR HUBBELL CAT.# NXDS WITH RJ45 ADAPTER AND DAISY-CHAINED NETWORK WIRING TO ROOM CONTROLLERS 1 TO 4.
10. PROVIDE DAYLIGHT SENSOR HUBBELL CAT.# NXDS.



2 A6 E2 POWER PLAN

1 : 75

POWER NOTES:

1. SOLAR PANEL POLE SHALL BE INSTALLED MAX. 50 METERS AWAY FROM BATTERY ENCLOSURES WITH PANEL FACING SOUTH. COORDINATE POLE LOCATION PER EXISTING SITE CONDITIONS. REFER TO SHOP DRAWINGS AND POLE INSTALLATION STRUCTURAL REQUIREMENTS AS DETAILED ON STRUCTURAL CONTRACT DRAWINGS.
2. SUPPLY AND INSTALL POLE BASE JUNCTION BOX FOR OVERHEAD TO UNDERGROUND TRANSITION OF THE SOLAR PANEL DC WIRING. JUNCTION BOX TO BE EEMAC4X PVC COATED HOT DIPPED GALVANIZED STEEL TYPE WITH VANDAL PROOF FASTENERS.
3. SUPPLY AND INSTALL SERVICE GROUND PER OESC, TWO (2) COPPER CLAD GROUND PLATES 315MM X 250MM /3MM AT 3 METERS INTERVAL BELOW GRADE IN DIRECT CONTACT WITH SOIL INTERCONNECTED WITH #4AWG BARE COPPER GROUNDING CONDUCTOR. PROVIDE AC AND DC SYSTEM GROUNDING AND BONDING WIRING AS DETAILED ON SINGLE LINE DIAGRAM.
4. PHOTOVOLTAIC DC SYSTEM POWER WIRING IN U/G DUCT BANK. AC AND DC SYSTEM GROUNDING DIRECT BURIED INSTALLED IN COMMON TRENCH.
5. REFER TO SHOP DRAWINGS FOR DC COMBINER ENCLOSURE INSTALLATION AND INTERCONNECTION REQUIREMENTS. SUPPLY ALL MANUFACTURER ACCESSORIES.
6. REFER TO SHOP DRAWINGS FOR DC TO AC INVERTER INSTALLATION AND INTERCONNECTION REQUIREMENTS. SUPPLY ALL MANUFACTURER ACCESSORIES.
7. REFER TO PANEL SCHEDULES.
8. CONDUIT STUB-UPS FOR INCOMER SOLAR POWER SERVICES. PROVIDE FLEX CONDUIT EXTENSIONS UP TO COMBINER ENCLOSURE (BOTTOM CONNECTION).
9. WASHROOM BUILDING POWER IN U/G DUCT BANK (THREE CIRCUITS: LIGHTING AND FAN POWER). THREE (3) RUNS OF 2C#12 RWU90 + GND IN 35mm PVC CONDUIT. PROVIDE EMPTY 35mm PVC SPARE CONDUIT WITH PULL WIRE. CAP SPARE CONDUIT TERMINATIONS.

DRAWING NO. | DRAWING NAME

REFERENCE DRAWINGS

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CYPRUS LAKE - HEAD OF TRAILS RENEWAL

Drawing title / Titre du Dessin

ELECTRICAL POWER AND LIGHTING PLAN

Plot Scale / Echelle: As indicated

Drawn by/ Dessin par: JA — Date: 2018-07-25

Field Recording by/ Releve-Temoin par — Date:

Approved by/ Approuve par: RP — Date: 2018-07-25

Checked by/ Verife par: MB — Date: 2018-07-25

Project No./No. du projet: 60576731 | Asset No. | Sheet No./ Feuille No.: E2

Drawing Re No./No. du Dessin

SOLAR POWER DEMAND ASSESSMENT

Panel DP-A	Room ID.	Description/Cat.#	Manuf.	Fixt. Watt	Volt	Qty.	Watt/Circuit	VA/Circuit	Runtime in h	Energy in Wh	Energy in VAh
CCT.# 1	SW BLD. LIGHTING	LXEN 435 XW RFA ED U SSL	Hubbell	18	120Vac	5	90	112.5	6	540	675
		LF4SL-DM1-NXE-11L-35K-8-IP65-CL-B6	Hubbell	12.7	120Vac	6	76.2	95.25	7	533	666.8
CCT.# 2	NW BLD. LIGHTING	LXEN 435 XW RFA ED U SSL	Hubbell	18	120Vac	5	90	112.5	6	540	675
	WALLPACK	CY1 3K7 14 UNV XXX F FPP PCU SF	Hubbell	15	120Vac	1	15	18.75	12	180	225
CCT.# 3	EXHAUST FAN EF-1	SQ-90-D HIGH EFFICIENCY FAN	N/A	75	120Vac	1	75	93.75	3.6	270	337.5
CCT.# 4	EXHAUST FAN EF-2	SQ-90-D HIGH EFFICIENCY FAN	N/A	75	120Vac	1	75	93.75	3.6	270	337.5
CCT.# 5	REC. CCT.1 - POS MACHINE CHARGER	MAX.50W BATTERY CHARGER	N/A	50	120Vac	1	50	62.5	12	600	750
CCT.# 6	REC. CCT.2 -LAPTOP CHARGER	MAX.70W BATTERY CHARGER	N/A	70	120Vac	1	70	87.5	8	560	700
N/A	SOLAR INVERTER CONEXT-SW	INTERNAL LOSSES	Schneider	-	-	-	35	43.75	24	840	1050
							576.2	**720.25**		**4333**	**5416.75**

LIGHTING FIXTURE SCHEDULE

TPYE	MANUFACTURER	MODEL	DESCRIPTION	INPUT WATTS	VOLT	LAMP	MOUNTING	CAT.#
A	HUBBELL	LXEN SERIES	LED STRIP 2200 LUMEN	18	120	LED	CEILING SUSPENDED 3.2 AFF	LXEN 435 XW RFA ED U SSL
B	HUBBELL	LF4SL SERIES	LED DOWNLIGHT 1100 LUMEN	12.7	120	LED	CEILING RECESSED 3.2 AFF	LF4SL-DM1-NXE-11L-35K-8-XX-IP65-CL-B6
C	HUBBELL	CY1 SERIES	LED WALL PACK 1500 LUMEN	15	120	LED	WALL MOUNT 3.2 AFF	CY1-15 3K7 14 UNV DBF FPP SF

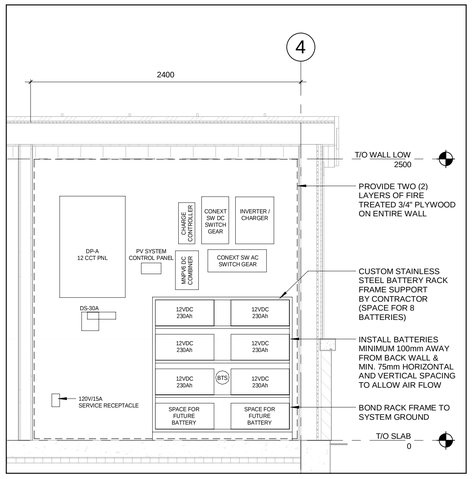
PANEL: "DP-A" NEW ☒ EXISTING ☐
VOLTAGE: 240/120V
PHASE: 1 PHASE, 3 WIRE
MAINS: 60 AMP
LOCATION: MECH/ELEC. RM.

MOUNTING: SURFACE ☒ FLUSH ☐
ENCLOSURE: EEMAC 1
TYPE: MAIN LUGS ☐ MAIN CIRCUIT BREAKER ☒
CB. RATING 2P, 20A, 10KA
INT. RATING: 10 KA RMS SYM

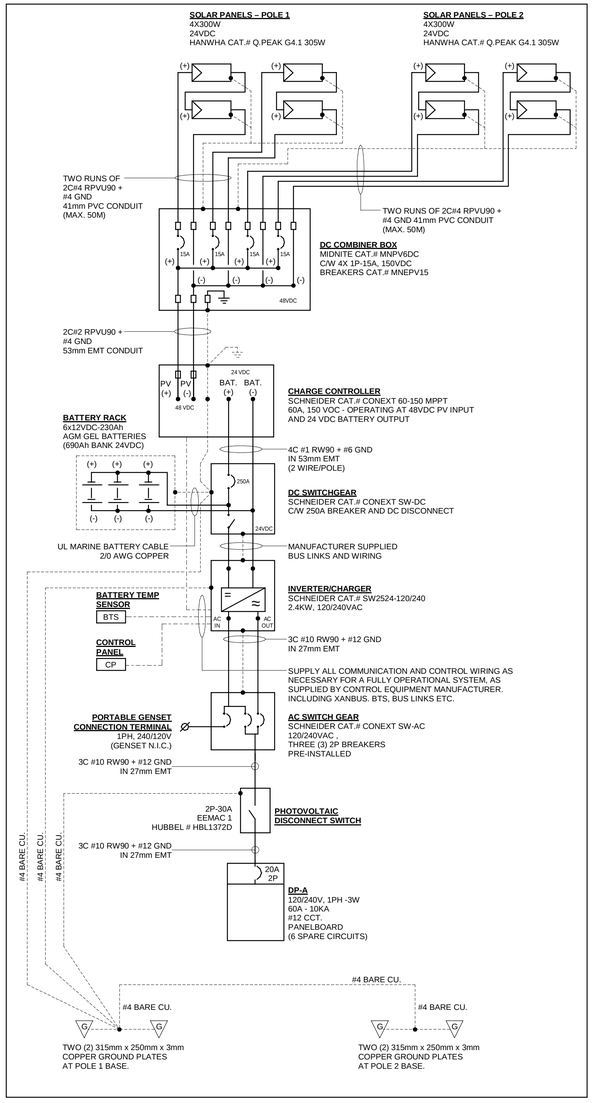
Description	VA	Breaker			Breaker	VA	Description
SW BLD. LIGHTING	208	15A	1	A 2	15A	-	SERVICE RECEPTACLE (MAINTENANCE USE ONLY)
EXHAUST FAN EF-1	94	15A	3	B 4	15A	132	NW BLD. LIGHTING + WALLPACK
REC. CCT.1 - POS MACHINE CHARGER	63	15A	5	A 6	15A	88	REC. CCT.2 -LAPTOP CHARGER
SPARE (Note 1.)	-	15A	7	B 8	15A	94	EXHAUST FAN EF-2
SPARE (Note 1.)	-	15A	9	A 10	15A	-	SPARE (Note 1.)
SPARE (Note 1.)	-	15A	11	B 12	15A	-	SPARE (Note 1.)

NOTES
1. PROVISION OF SPARE CIRCUITING CONDITIONAL ON BATTERY SYSTEM UPGRADES.
2. PROVIDE PHASE BALANCING UPON FINALIZED CONSTRUCTION.

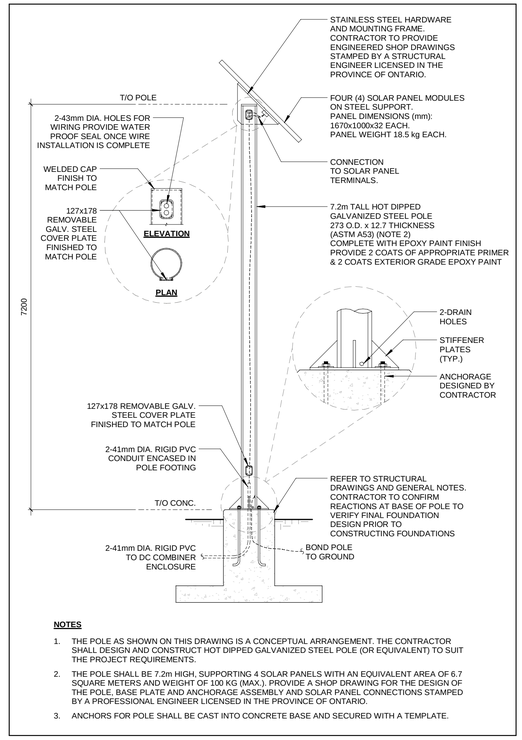
PHASE A TOTAL (VA) 359 **CONNECTED LOAD (VA) 679.00**
PHASE B TOTAL (VA) 320 **DEMAND LOAD (VA) 475.30**
DEMAND CURRENT (A) 3.96



1 E3 SOLAR EQUIPMENT GENERAL ARRANGEMENT
1 : 25

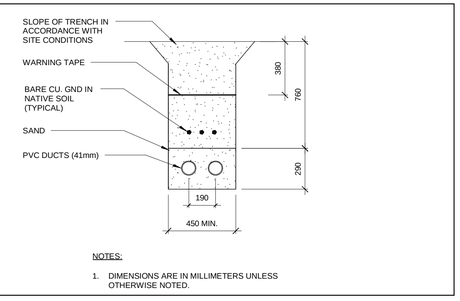


2 E3 SINGLE LINE DIAGRAM
N.T.S.



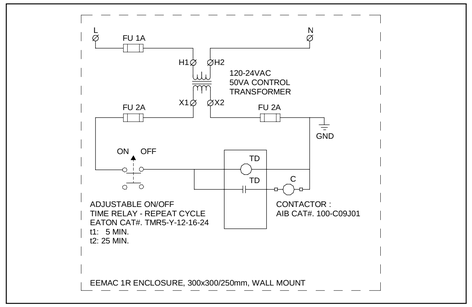
NOTES
1. THE POLE AS SHOWN ON THIS DRAWING IS A CONCEPTUAL ARRANGEMENT. THE CONTRACTOR SHALL DESIGN AND CONSTRUCT HOT DIPPED GALVANIZED STEEL POLE (OR EQUIVALENT) TO SUIT THE PROJECT REQUIREMENTS.
2. THE POLE SHALL BE 7.2m HIGH, SUPPORTING 4 SOLAR PANELS WITH AN EQUIVALENT AREA OF 6.7 SQUARE METERS AND WEIGHT OF 100 KG (MAX.). PROVIDE A SHOP DRAWING FOR THE DESIGN OF THE POLE, BASE PLATE AND ANCHORAGE ASSEMBLY AND SOLAR PANEL CONNECTIONS STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
3. ANCHORS FOR POLE SHALL BE CAST INTO CONCRETE BASE AND SECURED WITH A TEMPLATE.

8 E3 SOLAR PANEL INSTALLATION TYPICAL DETAIL
1 : 50

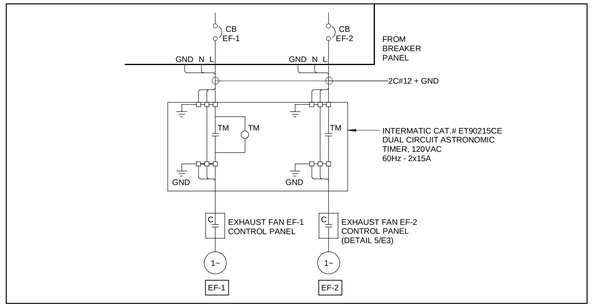


NOTES:
1. DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

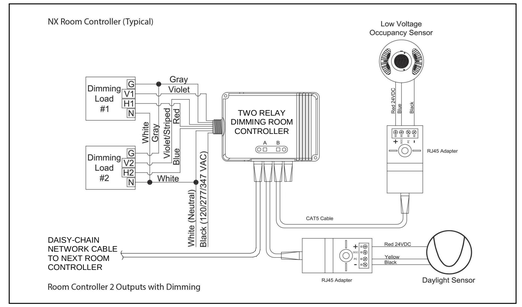
4 E3 2-CELL DUCTBANK
1 : 20



5 E3 EXHAUST FAN TYPICAL WIRING DETAIL I
N.T.S.



6 E3 EXHAUST FAN TYPICAL WIRING DETAIL II
N.T.S.



7 E3 TYPICAL LIGHTING CONTROL WIRING DIAGRAM
N.T.S.

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Drawing Re No./No. du Dessin