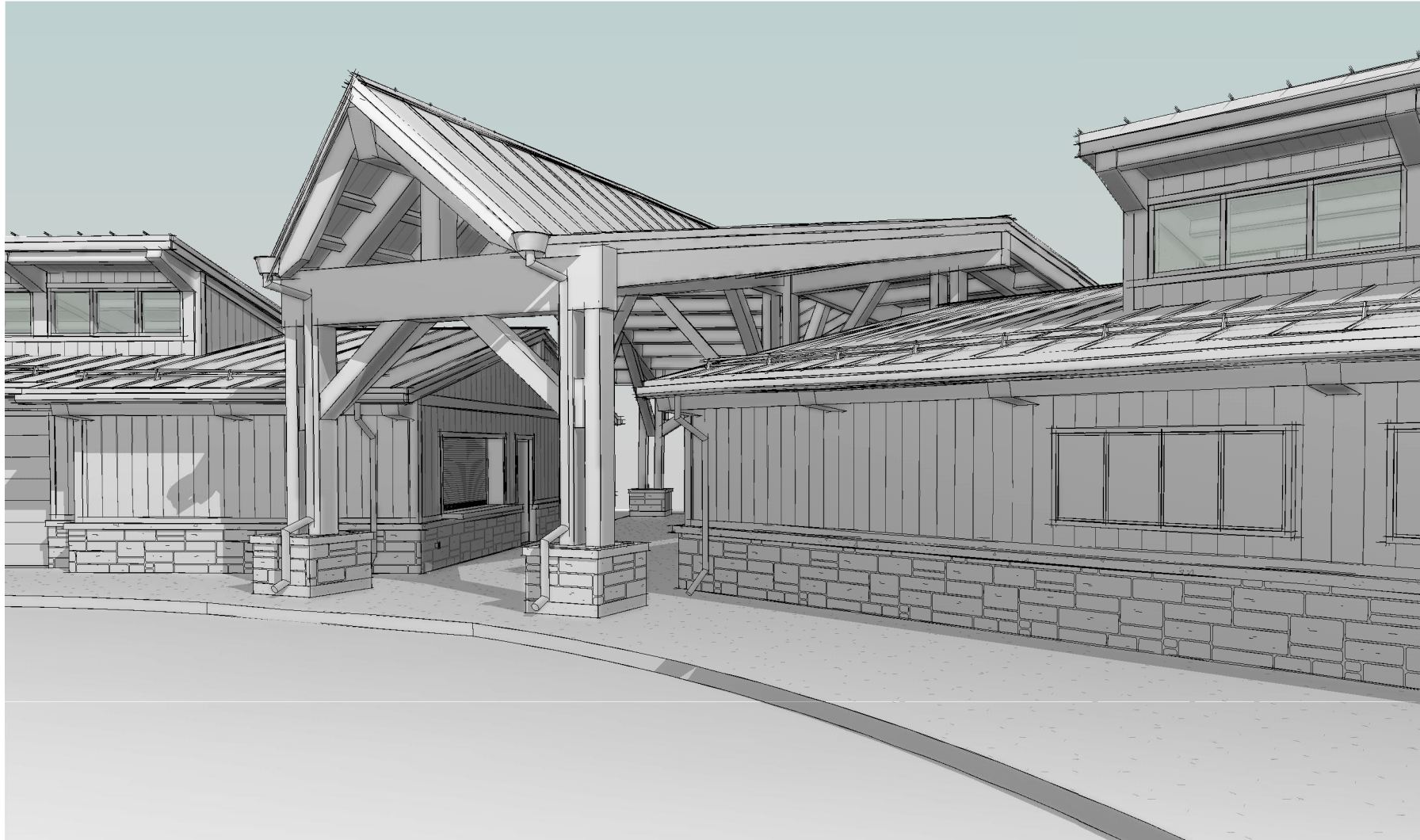
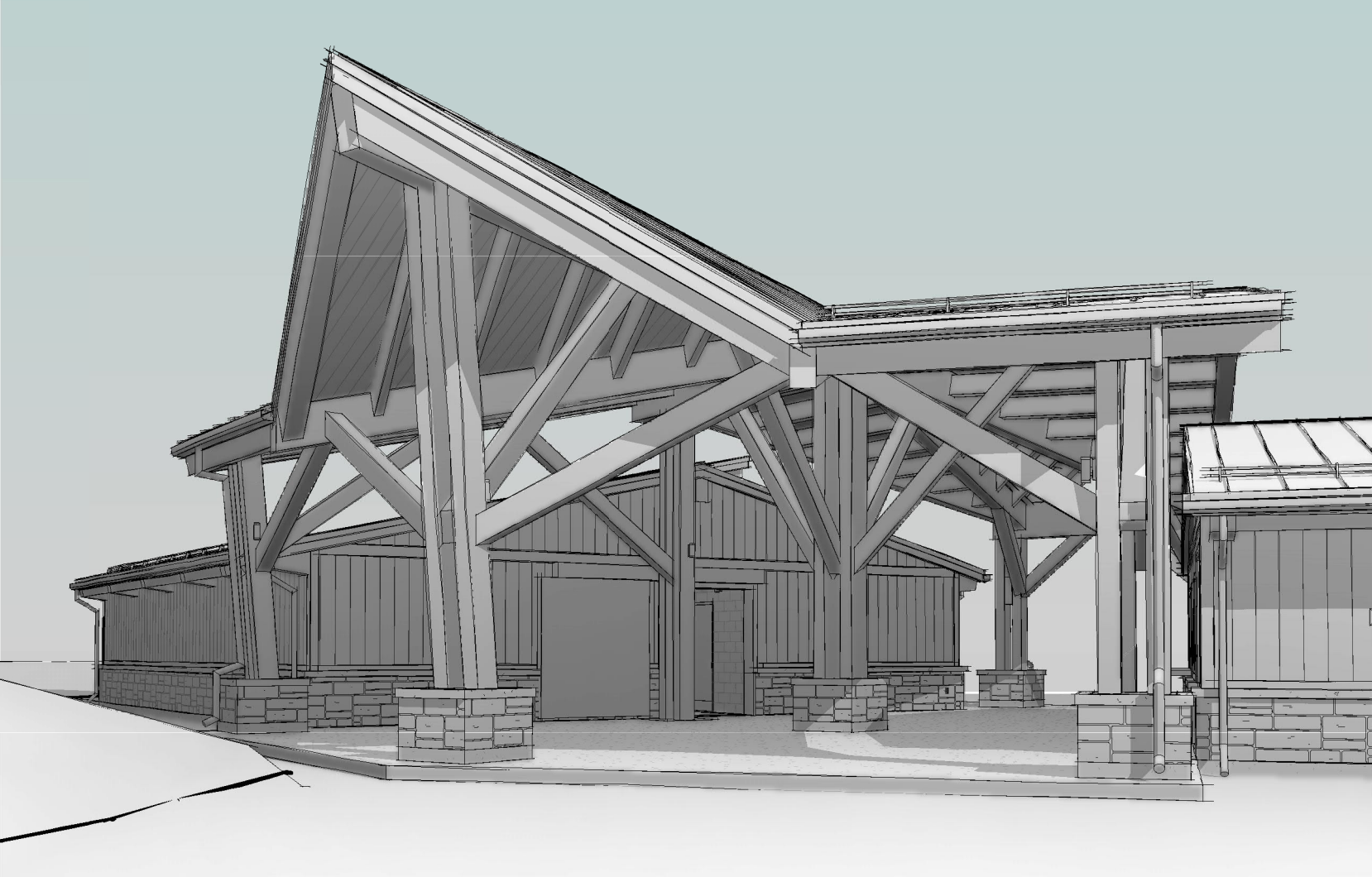


FRONT PERSPECTIVE



FRONT PERSPECTIVE



REAR PERSPECTIVE

100% SHEET LIST	
SHEET #	SHEET NAME
L1	SITE PLAN
L2	EXISTING CONDITIONS AND REMOVALS PLAN
L3	LAYOUT PLAN
L4	GRADING PLAN 1
L5	GRADING PLAN 2
L6	GRADING PLAN 3
L7	GRADING PLAN 4
L8	WASTEWATER TREATMENT - ENLARGEMENT
L9	WASTEWATER TREATMENT – CROSS SECTIONS
L10	RESTORATION PLAN
L11	SITE DETAILS
L12	SITE DETAILS
L13	SITE DETAILS
L14	SITE DETAILS
L15	SITE DETAILS
A1	REFERENCE SHEET
A2	LIFE SAFETY PLAN & NBC MATRIX
A3	FLOOR PLAN & HIGH LEVEL WINDOW PLAN
A4	ROOF PLAN
A5	ENLARGED FLOOR PLANS
A6	REFLECTED CEILING PLAN & ROOM FINISH SCHEDULE
A7	BUILDING ELEVATIONS I
A8	BUILDING ELEVATIONS II
A9	BUILDING SECTIONS
A10	BUILDING SECTIONS
A11	SECTION DETAILS
A12	SECTION DETAILS
A13	SECTION DETAILS
A14	PLAN DETAILS
A15	INTERIOR ELEVATIONS & MILLWORK DETAILS
A16	INTERIOR ELEVATIONS & MILLWORK DETAILS
A17	DOOR & WINDOW SCHEDULE
S1	STRUCTURAL - GENERAL NOTES AND DESIGN NOTES
S2	STRUCTURAL - FOUNDATION PLAN & DETAILS
S3	STRUCTURAL - FOUNDATION SECTIONS AND DETAILS
S4	STRUCTURAL - FOUNDATION SECTIONS AND DETAILS
S5	STRUCTURAL - SLAB ON GRADE PLAN & DETAILS
S6	STRUCTURAL - LINTELS & MASONRY DETAILS
S7	STRUCTURAL - MID-LEVEL FRAMING PLAN
S8	STRUCTURAL - ROOF FRAMING PLAN
S9	STRUCTURAL - ROOF & GLULAM DETAILS
S10	STRUCTURAL - CROSS-SECTION
S11	STRUCTURAL - TIMBER FRAME CANOPY LAYOUT AND ELEVATIONS
S12	STRUCTURAL - TIMBER FRAME CANOPY SECTIONS AND ISOMETRICS
M1	MECHANICAL - LEGEND AND GENERAL NOTES
M2	MECHANICAL - FLOOR PLANS
M3	MECHANICAL - PLUMBING AND DRAINAGE FOUNDATION PLANS
M4	MECHANICAL - PLUMBING AND DRAINAGE FLOOR PLANS
M5	MECHANICAL - ENLARGED MECHANICAL ROOM FLOOR PLANS
M6	MECHANICAL - HEAT TRANSFER FLOOR PLANS
M7	MECHANICAL - HVAC FLOOR PLANS
M8	MECHANICAL - SCHEDULES
M9	MECHANICAL - SCHEDULES
M10	MECHANICAL - SCHEMATICS AND DETAILS
M11	MECHANICAL - SCHEMATICS AND DETAILS
E1	LEGEND AND GENERAL NOTES
E2	ELECTRICAL SITE PLAN
E3	LIGHTING & POWER PLAN
E4	ELECTRICAL DETAILS
E5	ELECTRICAL SCHEDULES

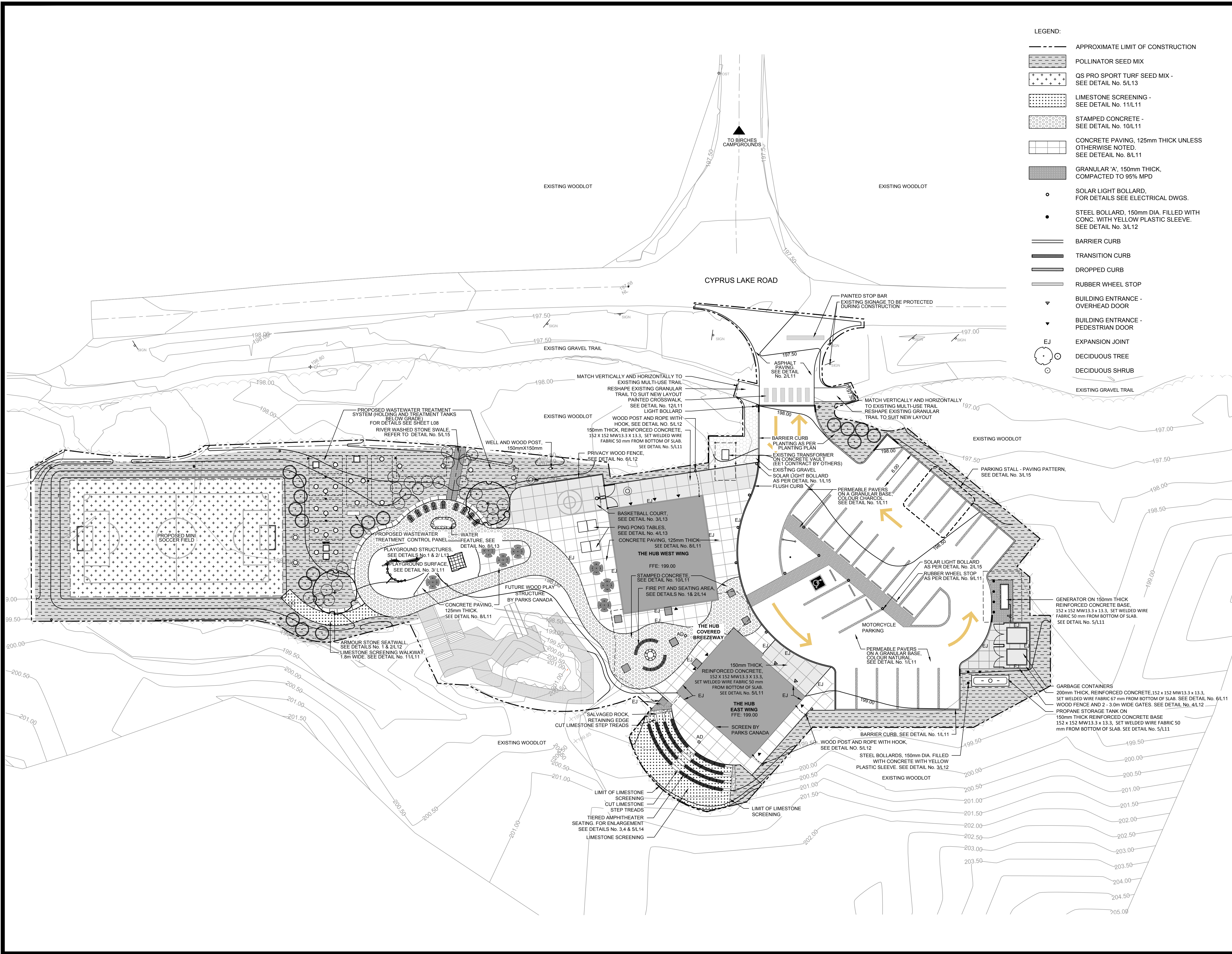
60554372

# CYPRUS LAKE CAMPGROUND - THE HUB AMENITY BUILDING

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

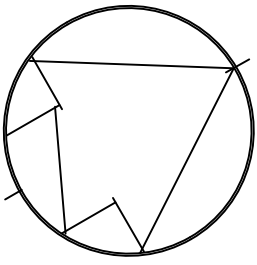
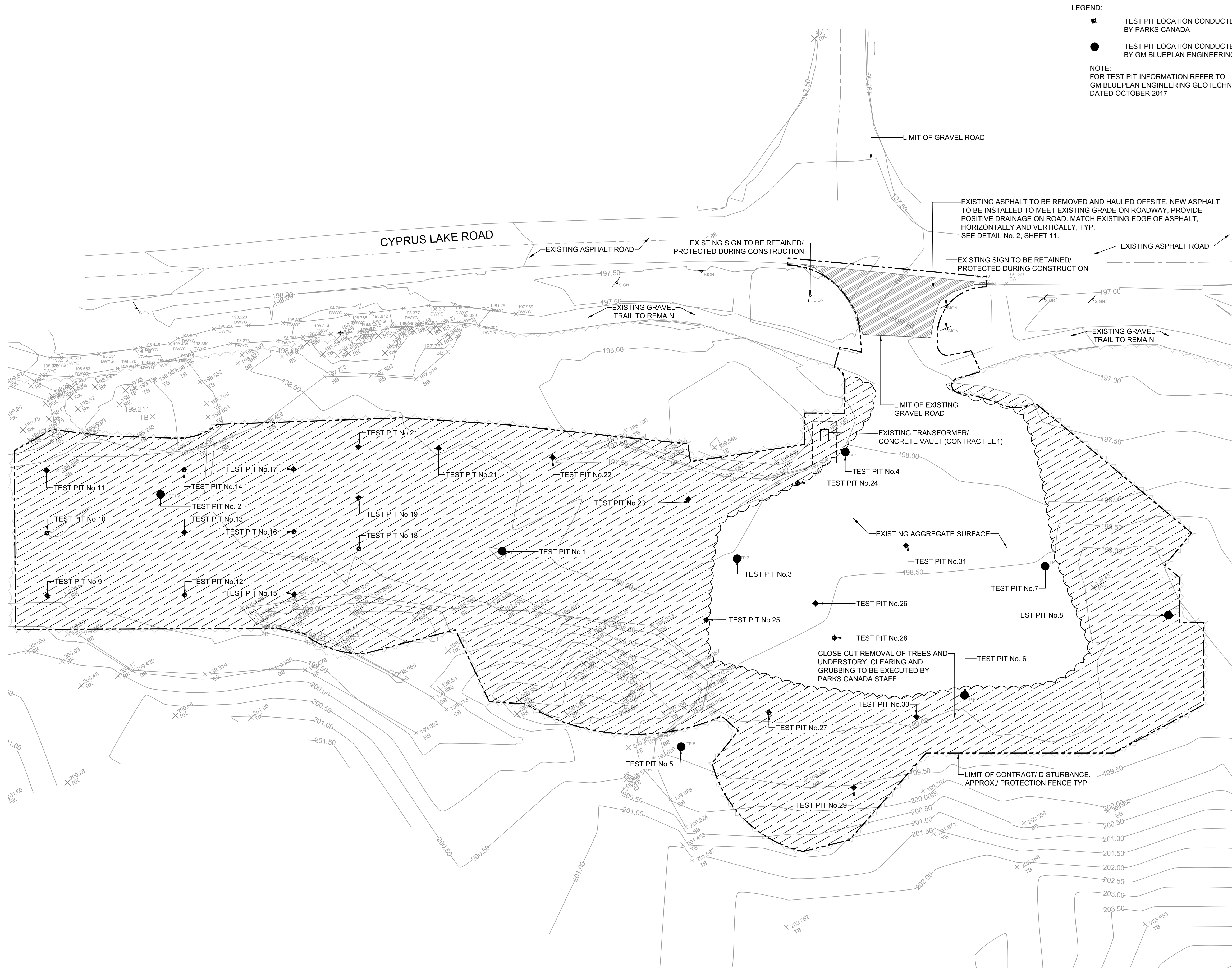
ISSUED FOR TENDER 2018-06-19





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	B	Sheet number	B Sur feuille numero	
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Type of Record / Type d'enregistrement				
Project title / Titre du projet				
BRUCE PENINSULA NATIONAL PARK THE HUB				
Drawing title / Titre du dessin				
SITE PLAN				
Plot Scale / Echelle 1:200 (Arch D 24x36 Plot Size)				
Drawn by/ Dessine par		Date		
PF				
Field Recording by / Releve-Temoin par		Date		
Approved by / Approuve par		Date		
Checked by/ Verifie par		Date		
Project No./ No. du projet 60554372		Asset No.		Sheet No./ Feuille No.
Drawing Re No./No. du Dessin				L01





DRAWING NO. DRAWING NAME

REFERENCE DRAWINGS



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NO.	DATE	DESCRIPTION	Drawn by Dessine par	Approved Approuve

REVISIONS

A	A Detail number	A Numero de detail
B	B Sheet number	B Sur feuille numero

Linear dimensions in millimeters  
Dimensions lineaires en millimetres



Canad 

PARKS CANADA  
EASTERN ONTARIO FIELD UNIT

Type of Record /  
Type d'enregistrement

Project title / Titre du projet

BRUCE PENINSULA NATIONAL PARK  
THE HUB

Drawing title / Titre du dessin

EXISTING CONDITONS  
AND REMOVALS PLAN

Plot Scale / Echelle  
1:250 (Arch D 24x36 Plot Size)

Drawn by/ Dessine par Date

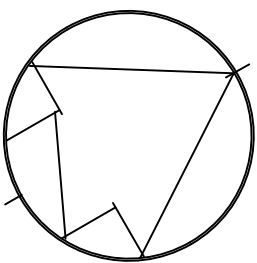
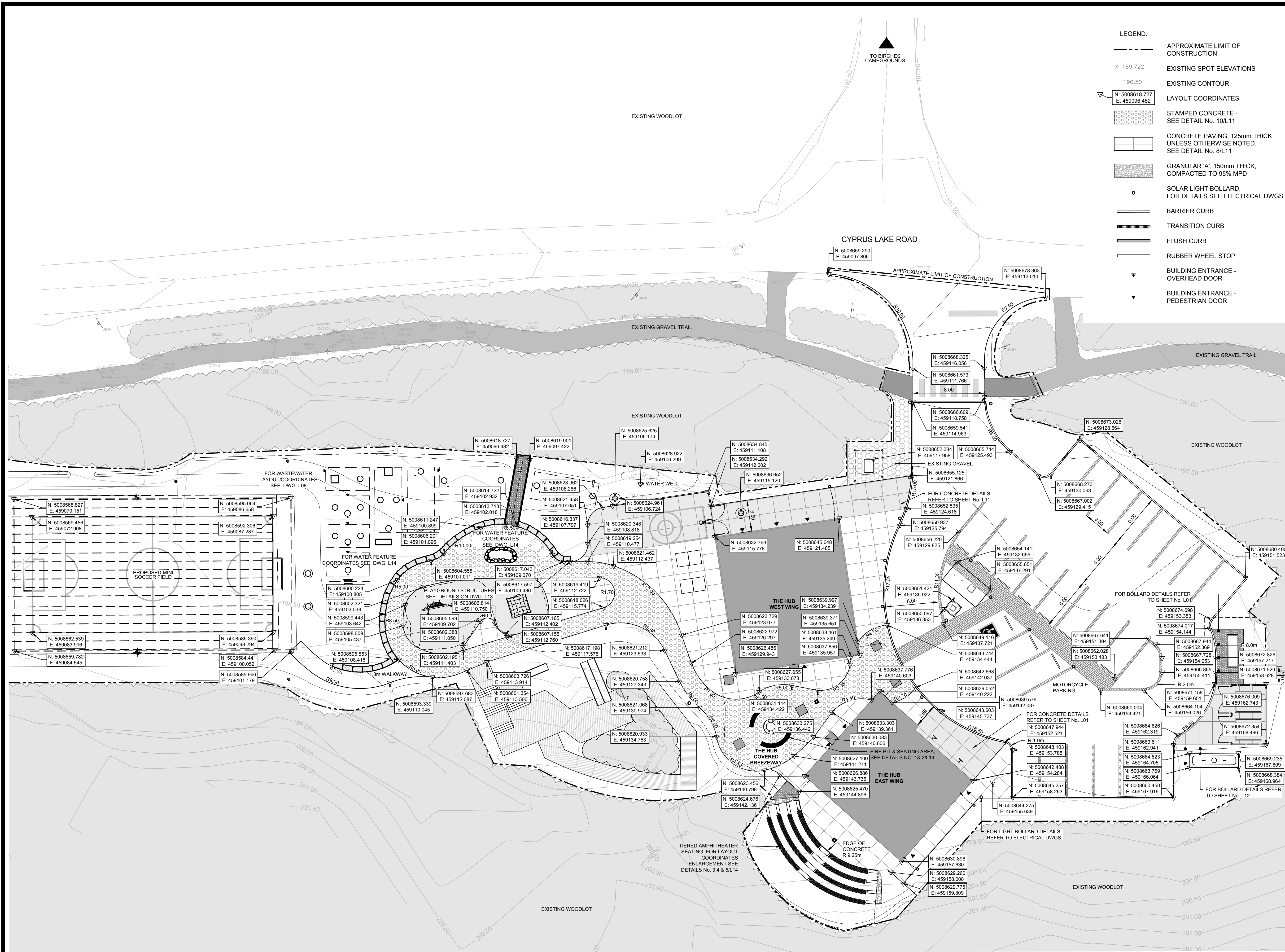
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Releve-Temoin par Date

Approved by / Approuve par Date


Checked by/ Verifie par Date

Project No./ No. du projet	Asset No.	Sheet No./ Feuille No.
Drawing Re No./No. du Dessin		L02





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NO.	DATE	DESCRIPTION	Drawn by Dessine par	Approved Approuvé

REVISIONS		
	A Detail number	A Numero de detail
	B Sheet number	B Sur feuille numero

Linear dimensions in millimeters  
Dimensions lineaires en millimetres



Canada

PARKS CANADA  
EASTERN ONTARIO FIELD UNIT

Type of Record /  
Type d'enregistrement

Project title / Titre du projet

BRUCE PENINSULA NATIONAL PARK  
THE HUB

Drawing title / Titre du dessin

SITE  
LAYOUT PLAN

Plot Scale / Echelle  
1:200 (Arch D 24x36 Plot Size)

Drawn by/ Dessine par  
PF

Field Recording by /  
Releve-Temoin par

Approved by / Approuve par

Checked by/ Verifie par

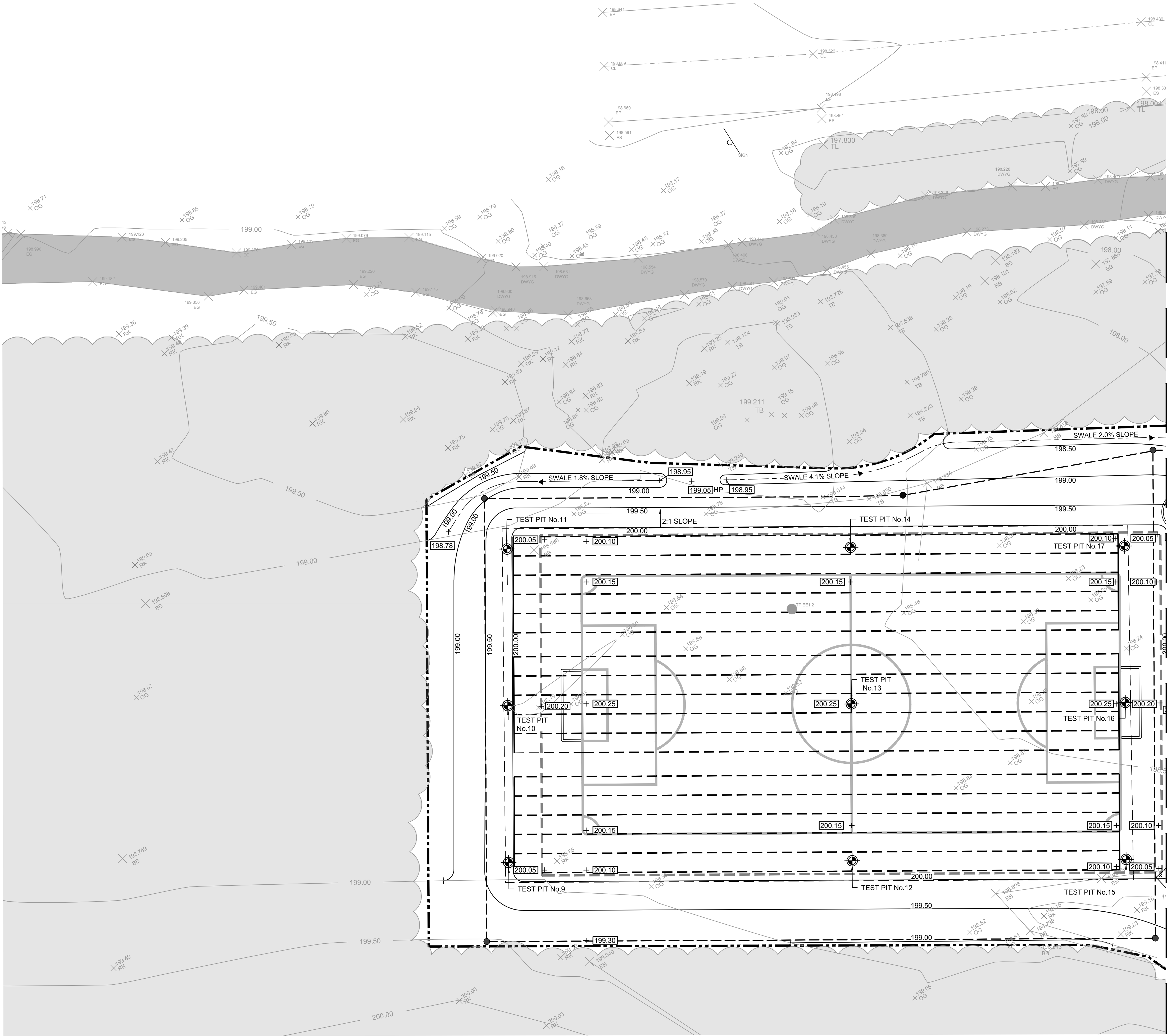
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Feuille No.

Drawing Re No./No. du Dessin

L03

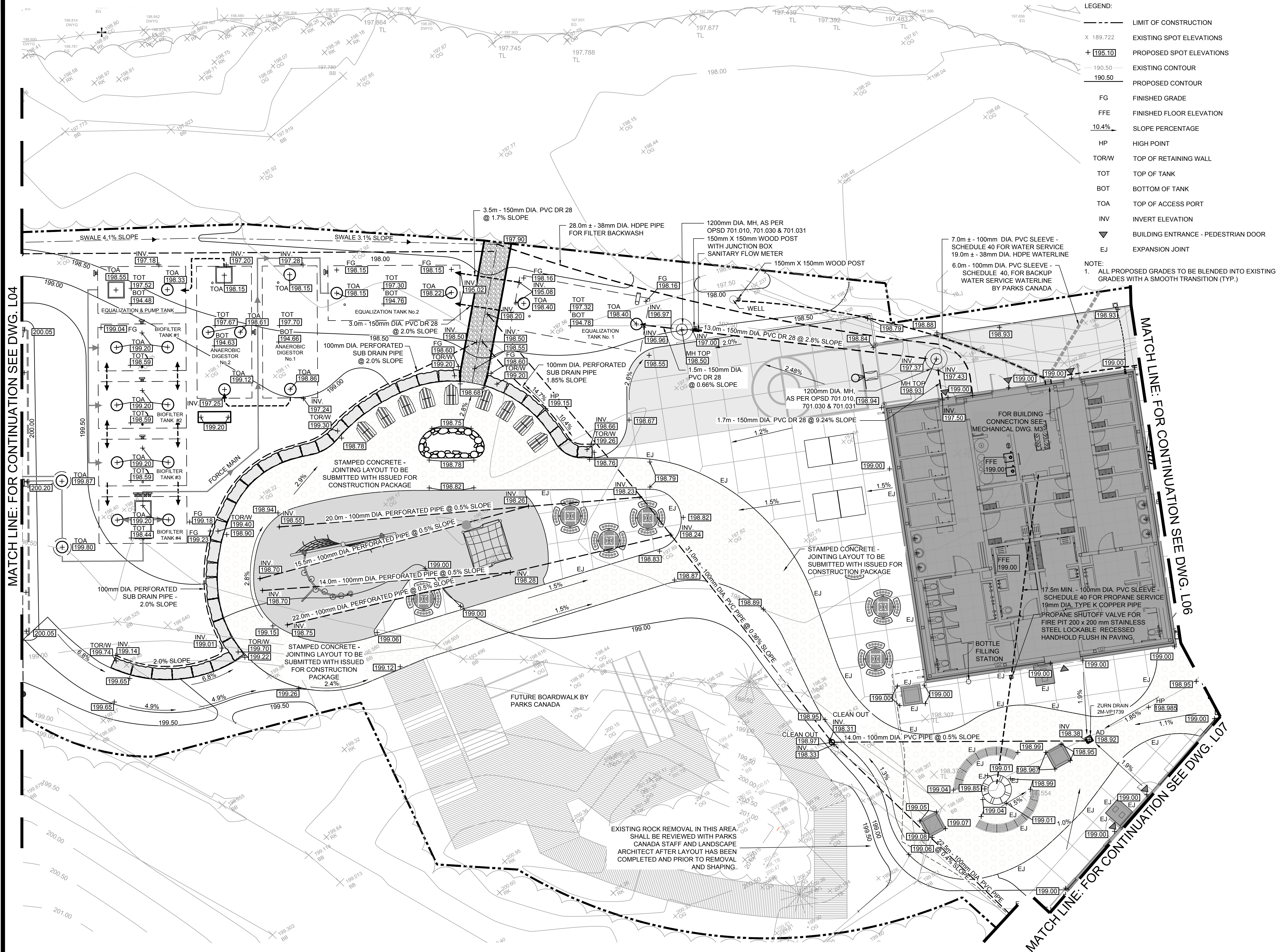




- LEGEND:
- LIMIT OF CONSTRUCTION
  - X 189.722 EXISTING SPOT ELEVATIONS
  - + [195.10] PROPOSED SPOT ELEVATIONS
  - 190.50 EXISTING CONTOUR
  - 190.50 PROPOSED CONTOUR
  - FG FINISHED GRADE
  - FFE FINISHED FLOOR ELEVATION
  - 10.4% SLOPE PERCENTAGE
  - HP HIGH POINT
  - TORW TOP OF RETAINING WALL
  - TOT TOP OF TANK
  - BOT BOTTOM OF TANK
  - TOA TOP OF ACCESS PORT
  - INV INVERT ELEVATION
  - EXISTING TEST PIT LOCATION BY PARKS CANADA
  - EXISTING TEST PIT LOCATION BY GM BLUEPRINT ENGINEERING
- NOTE:
- ALL PROPOSED GRADES TO BE BLENDED INTO EXISTING GRADES WITH A SMOOTH TRANSITION (TYP.)

DRAWING NO.		DRAWING NAME		
REFERENCE DRAWINGS				
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NO.	DATE	DESCRIPTION	Drawn by Dessine par	Approved Approuve
REVISIONS				
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Linear dimensions in millimeters		Dimensions lineaires en millimetres		
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PARKS CANADA EASTERN ONTARIO FIELD UNIT				
Type of Record / Type d'enregistrement				
Project title / Titre du projet BRUCE PENINSULA NATIONAL PARK THE HUB				
Drawing title / Titre du dessin GRADING PLAN 1				
Plot Scale / Echelle 1:100 (Arch D 24x36 Plot Size)				
Drawn by/ Dessine par		Date		
Field Recording by / Releve-Temoin par		Date		
Approved by / Approuve par		Date		
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Drawing Re No./No. du Dessin		Sheet No./ Feuille No. L04		





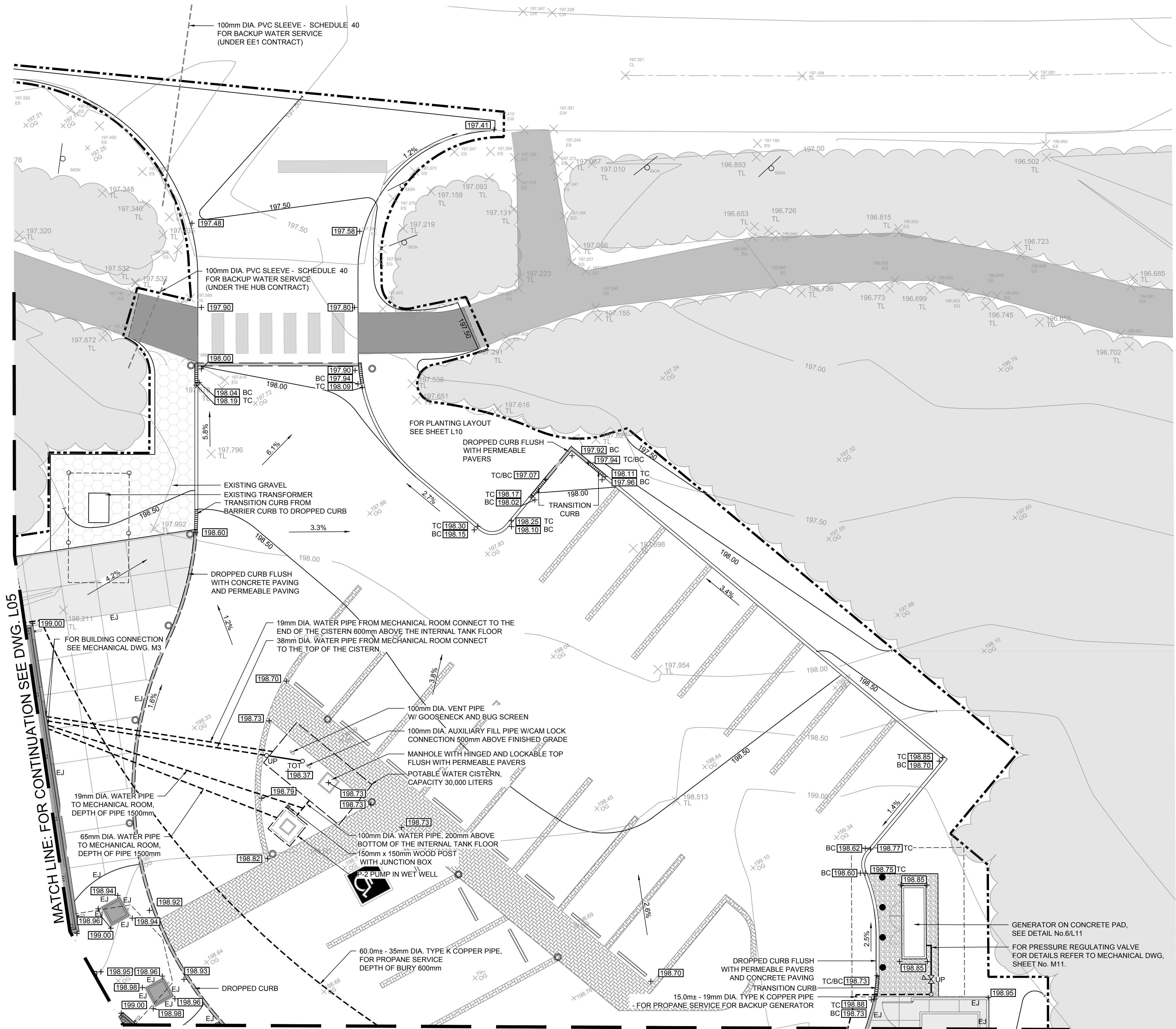
- LEGEND:
- LIMIT OF CONSTRUCTION
  - X 189.722 EXISTING SPOT ELEVATIONS
  - + 195.10 PROPOSED SPOT ELEVATIONS
  - 190.50 EXISTING CONTOUR
  - 190.50 PROPOSED CONTOUR
  - FG FINISHED GRADE
  - FFE FINISHED FLOOR ELEVATION
  - 10.4% SLOPE PERCENTAGE
  - HP HIGH POINT
  - TORW TOP OF RETAINING WALL
  - TOT TOP OF TANK
  - BOT BOTTOM OF TANK
  - TOA TOP OF ACCESS PORT
  - INV INVERT ELEVATION
  - ▽ BUILDING ENTRANCE - PEDESTRIAN DOOR
  - EJ EXPANSION JOINT

NOTE:  
1. ALL PROPOSED GRADES TO BE BLENDED INTO EXISTING GRADES WITH A SMOOTH TRANSITION (TYP.)

DRAWING NO.		DRAWING NAME		
REFERENCE DRAWINGS				
0	2018-06-19	ISSUED FOR TENDER	PF RB	
NO.	DATE	DESCRIPTION	Drawn by Dessine par	Approved Approuve
REVISIONS				
A	A Detail number	A Numero de detail		
B	B Sheet number	B Sur feuille numero		
Linear dimensions in millimeters		Dimensions lineaires en millimetres		
<h1>Canada</h1>				
PARKS CANADA EASTERN ONTARIO FIELD UNIT				
Type of Record / Type d'enregistrement				
Project title / Titre du projet <b>BRUCE PENINSULA NATIONAL PARK THE HUB</b>				
Drawing title / Titre du dessin <b>GRADING PLAN 2</b>				
Plot Scale / Echelle 1:100 (Arch D 24x36 Plot Size)				
Drawn by / Dessine par		Date		
Field Recording by / Releve-Temoir par		Date		
Approved by / Approuve par		Date		
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Drawing Re No./No. du Dessin			<b>L05</b>	



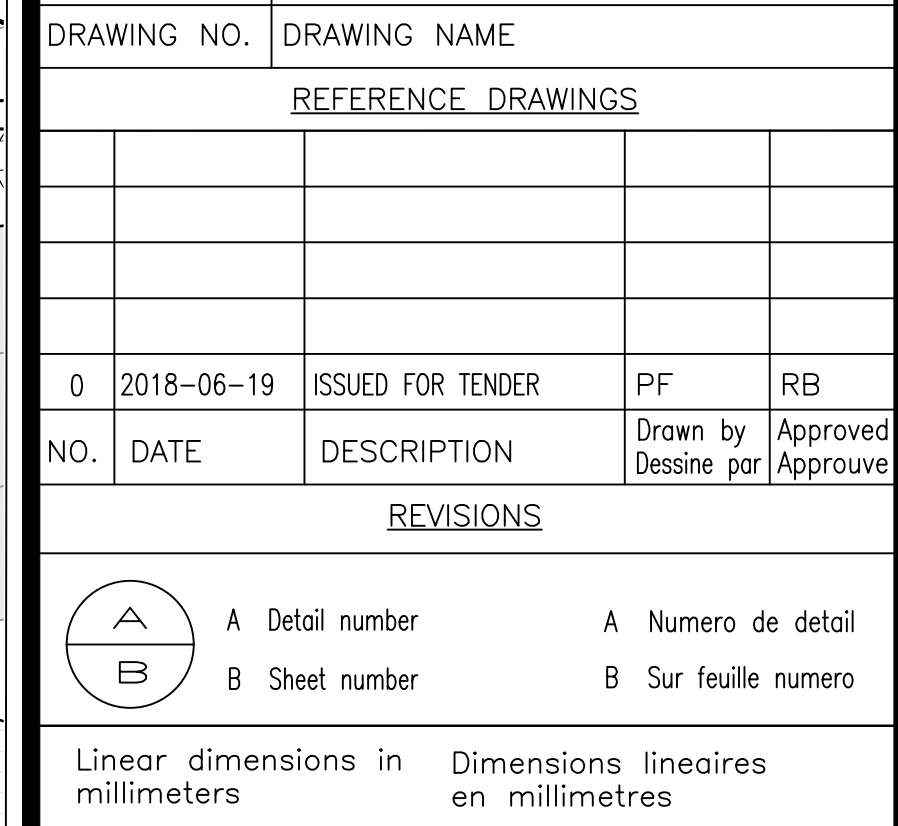
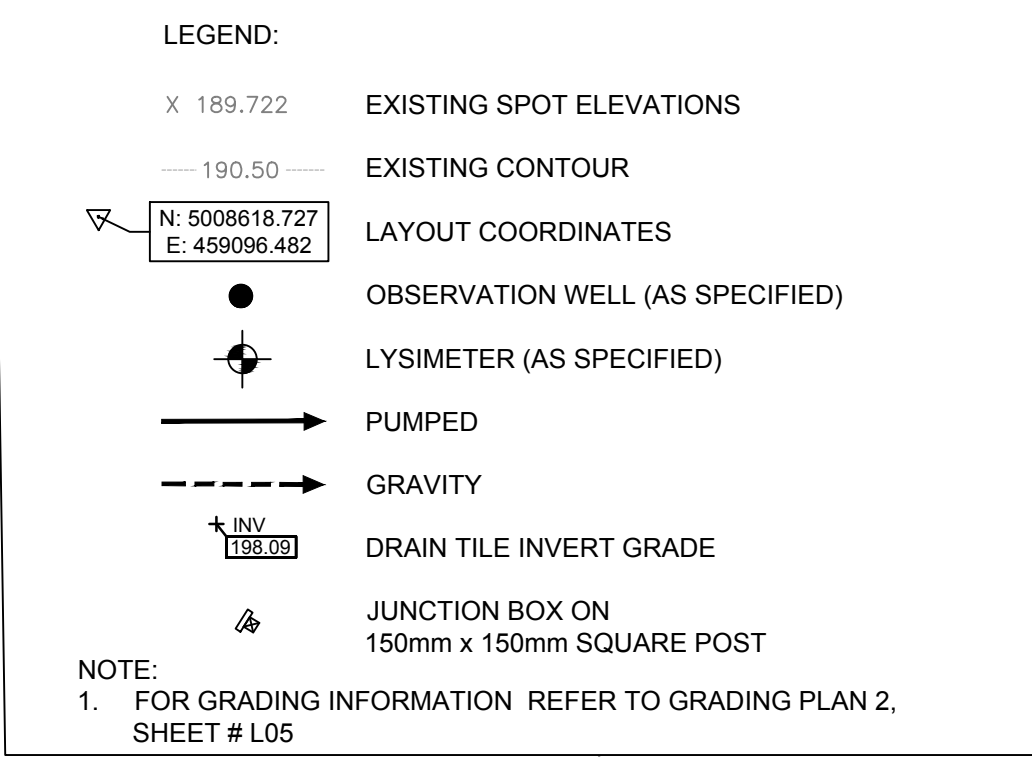
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Project title / Titre du projet

BRUCE PENINSULA NATIONAL PARK  
THE HUB

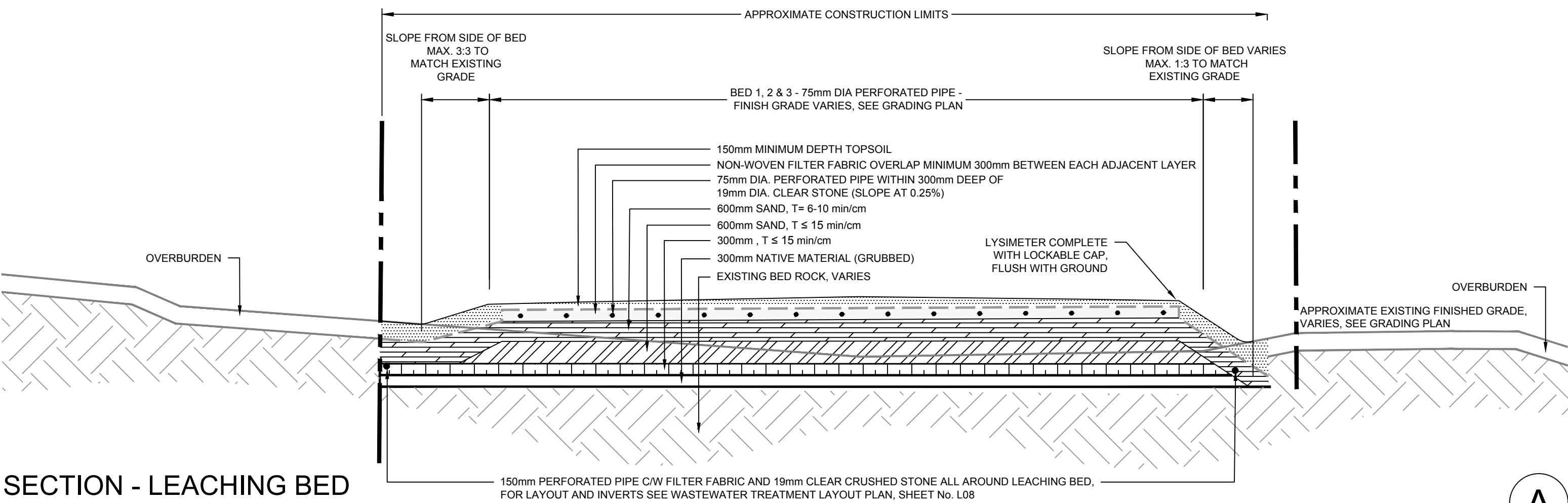
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Checked by/ Verifie par	Date
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Drawing Re No./No. du Dessin		108

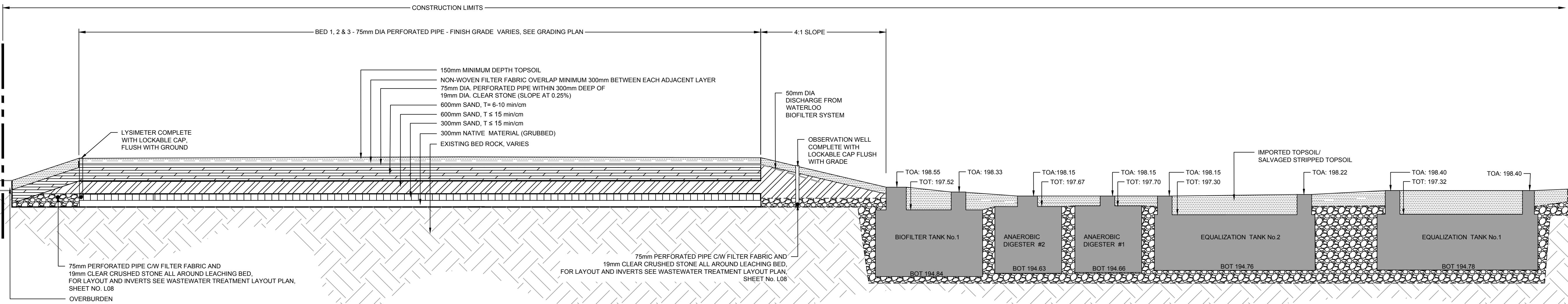
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SECTION - LEACHING BED

A



SECTION - LEACHING BED

B

DRAWING NO.		DRAWING NAME		
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0	2018-06-19	ISSUED FOR TENDER	PF	RB
NO.	DATE	DESCRIPTION	Drawn by Dessine par	Approved Approuve

A	A Detail number	A Numero de detail
B	B Sheet number	B Sur feuille numero

Linear dimensions in millimeters  
Dimensions lineaires en millimetres



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PARKS CANADA  
EASTERN ONTARIO FIELD UNIT

Type of Record /  
Type d'enregistrement

Project title / Titre du projet

BRUCE PENINSULA NATIONAL PARK  
THE HUB

Drawing title / Titre du dessin

SITE  
WASTEWATER TREATMENT  
CROSS SECTIONS

Plot Scale / Echelle  
1:200 (Arch D 24x36 Plot Size)

Drawn by/ Dessine par

Date

Field Recording by /  
Releve-Temoin par

Date

Approved by / Approuve par

Date

Checked by/ Verifie par

Date

Project No./ No. du projet

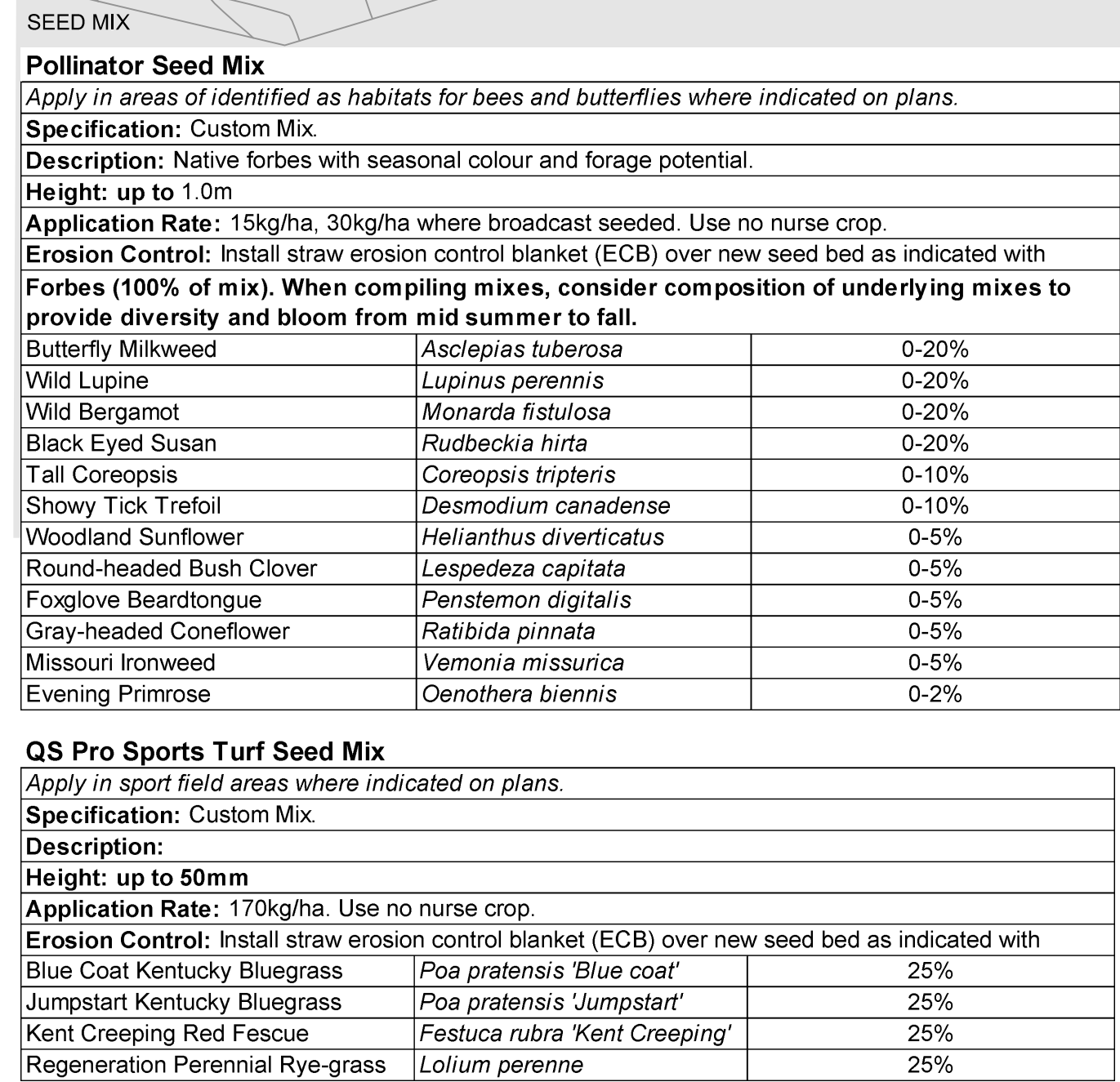
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Drawing Re No./No. du Dessin

L09


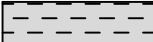
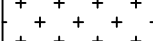
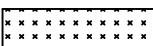





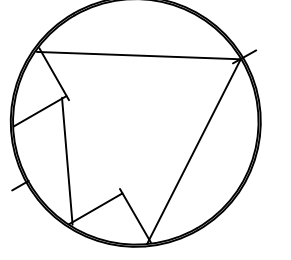





SEED MIX QUANTITIES	
SEED MIX	QUANTITIES
Pollinator seed mix	530.00 sq.m
QS Pro Sports Turf seed mix	900.00 sq.m

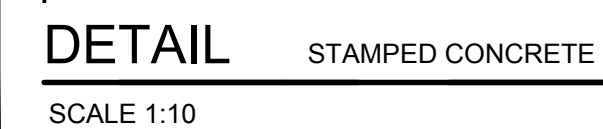
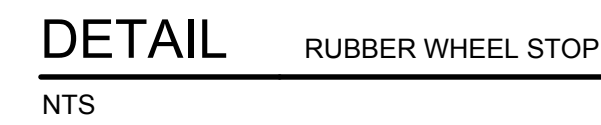
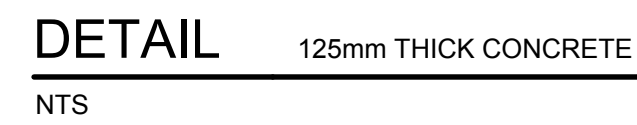
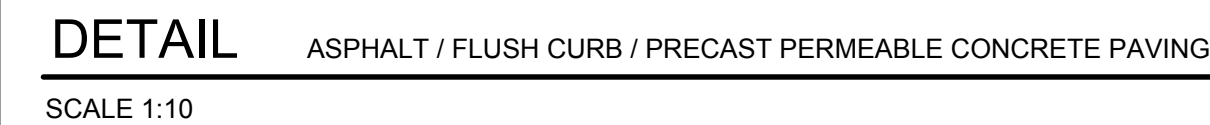
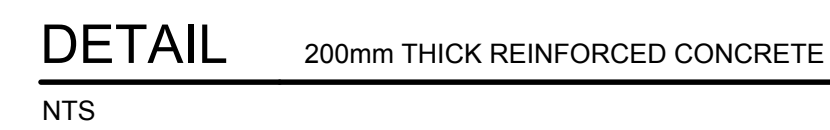
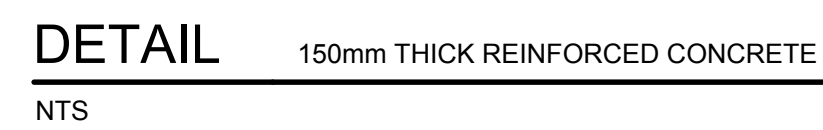
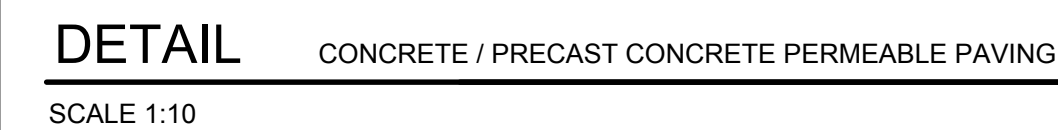
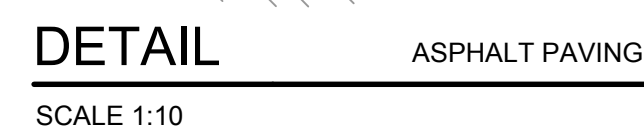
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				CALIPER	HEIGHT		
				[mm]	[cm]		
<b>Trees</b>							
Ar	<i>Acer rubrum</i>	Red Maple	2	60	-	WB	See layout this sheet
To	<i>Thuja occidentalis</i>	Eastern White Cedar	15	-	180	WB	Random Pattern, see detail this sheet
<b>Shrubs</b>							
cs	<i>Cornus stolonifera</i>	Red Osier Dogwood	27	-	80	POTTED	Random Pattern, see detail this sheet

**LEGEND:**

	LIMIT OF CONSTRUCTION
	POLLINATOR SEED MIX
	QS PRO SPORT TURF SEED MIX
	LIMESTONE SCREENING - SEE DETAIL NO. 11/L11
	DECIDUOUS TREE
	DECIDUOUS SHRUB
	PLANT KEY

											
DRAWING NO.		DRAWING NAME									
REFERENCE DRAWINGS											
0	2018-06-19	ISSUED FOR TENDER	PF	RB							
NO.	DATE	DESCRIPTION	Drawn by Dessine par	Approved Approuvé							
REVISIONS											
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Linear dimensions in millimeters			Dimensions lineaires en millimetres								
 Parcs Canada			 Parks Canada								
											
PARKS CANADA EASTERN ONTARIO FIELD UNIT											
Type of Record / Type d'enregistrement											
Project title / Titre du projet											
BRUCE PENINSULA NATIONAL PARK THE HUB											
Drawing title / Titre du dessin											
SITE RESTORATION PLAN											
Plot Scale / Echelle 1:250 (Arch D 24x36 Plot Size)											
Drawn by/ Dessine par PF			Date								
Field Recording by / Releve-Temoin par			Date								
Approved by / Approuve par			Date								
Checked by/ Verifie par			Date								
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Drawing Re No./No. du Dessin											






 Parcs Canada      Parks Canada      

Canada

PARKS CANADA  
EASTERN ONTARIO FIELD UNIT

Type of Record /  
Type d'enregistrement

Project title / Titre du projet

BRUCE PENINSULA NATIONAL  
PARK— THE HUB

Drawing title / Titre du dessin

## SITE DETAILS

Plot Scale / Echelle

AS NOTED (Arch D 24x36 Plot Size)

Drawn by/ Dessine par	Date
PF	2017-11-29

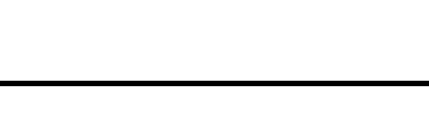
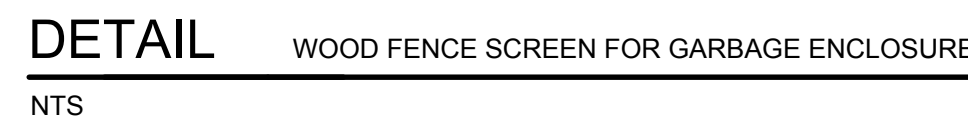
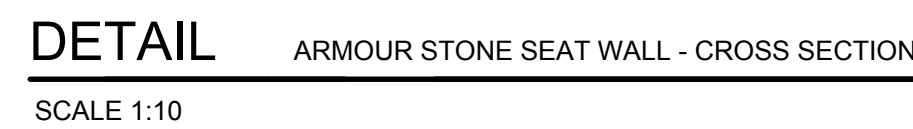
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Approved by / Approuvé par RB	Date 2017-11-29
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Checked by/ Verifie par	Date
RB	2017-11-29

Project No./ No. du projet 60554372	Asset No.	Sheet No./ Feuille No.
Drawing Re No./No. du Dessin		

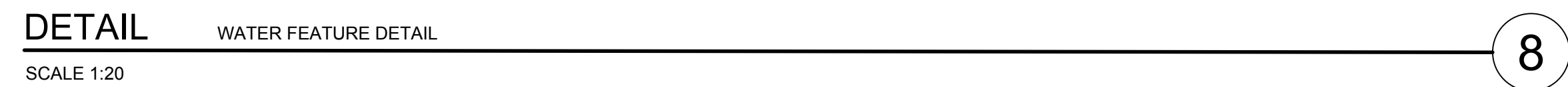
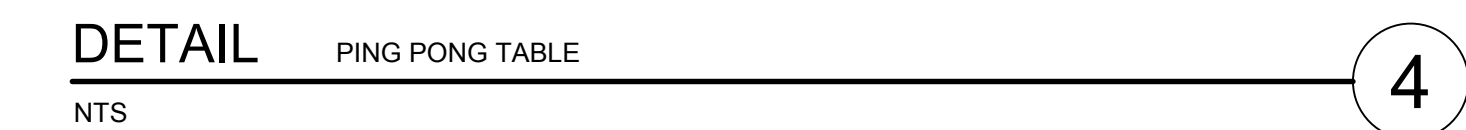
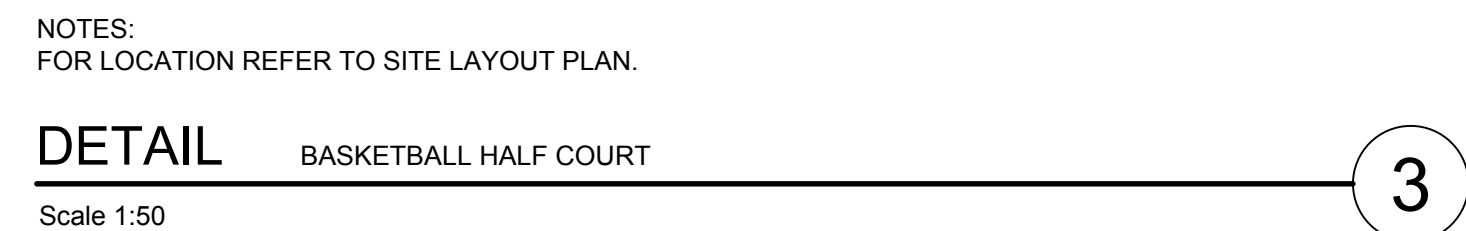
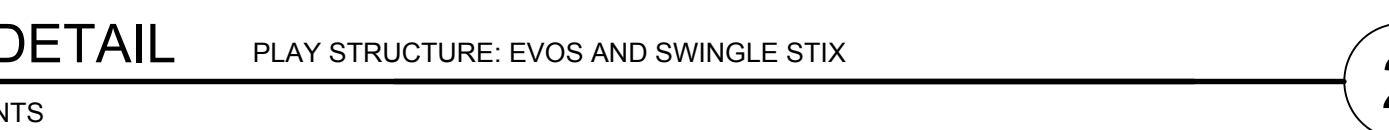
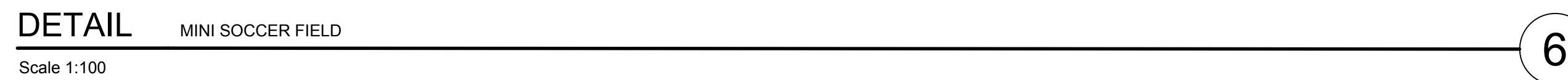
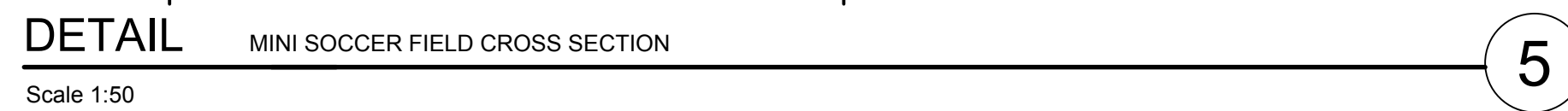
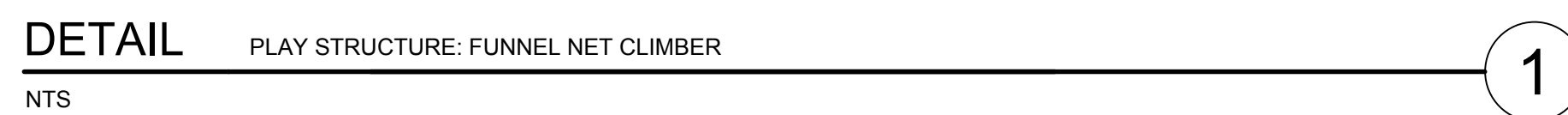






	Parcs Canada	Parks Canada	
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PARKS CANADA EASTERN ONTARIO FIELD UNIT			
Type of Record / Type d'enregistrement			

Project title / Titre du projet		
BRUCE PENINSULA NATIONAL PARK- THE HUB		
Drawing title / Titre du dessin		
SITE DETAILS		
Plot Scale / Echelle		
NTS (Arch D 24x36 Plot Size)		
Drawn by/ Dessine par	Date	
PF	2017-11-29	
Field Recording by / Releve-Temoin par	Date	
Approved by / Approuve par	Date	
RB	2017-11-29	
Checked by/ Verifie par	Date	
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Project No./ No. du projet	Asset No.	Sheet No./ Feuille No.
60554372		
Drawing Re No./No. du Dessin		






 Parcs Canada      Parks Canada
 

# Canadă

PARKS CANADA  
EASTERN ONTARIO FIELD UNITType of Record /  
Type d'enregistrement

Project title / Titre du projet

BRUCE PENINSULA NATIONAL  
PARK— THE HUB

Drawing title / Titre du dessin

## SITE DETAILS

Plot Scale / Echelle  
NTS (Arch D 24x36 Plot Size)

Drawn by/ Dessine par	Date
PF	2017-11-29

Field Recording by / Releve-Temoin par	Date
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Approved by / Approuvé par RB	Date 2017-11-29
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Checked by/ Verifie par	Date
RB	2017-11-29

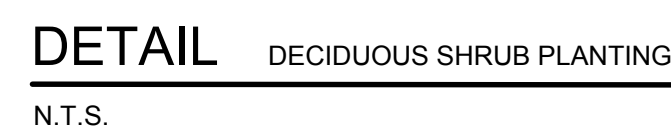
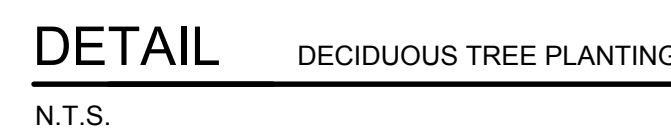
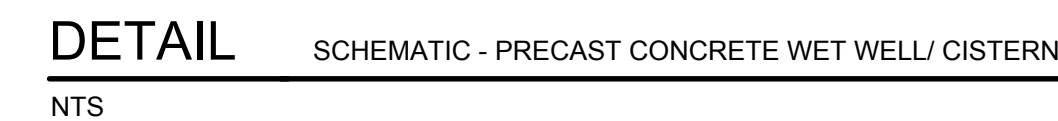
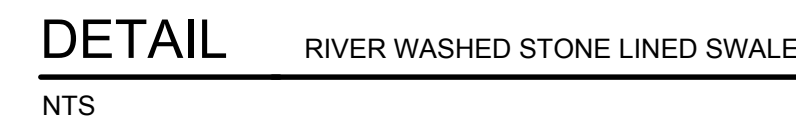
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Drawing Re No./No. du Dessin	13
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AS NOTED (Arch D 24x36 Plot Size)

Drawn by/ Dessine par	Date
PF/RL	2017-11-29

Field Recording by / Releve-Temoin par	Date
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Approved by / Approuvé par RB	Date 2017-11-29
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Checked by/ Verifie par	Date
RB	2017-11-29

Project No./ No. du projet 60554372	Asset No.	Sheet No./ Feuille No.
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Drawing Re No./No. du Dessin	
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L15



ABBREVIATIONS		
<b>A</b>	AT	ASPHALT IMPREGNATED FIBREBOARD
	A.I.F.B.	ACUSTIC TILE CEILING
	A.F.F.	ALUM.
	A.C.T.	APPROX.
	A.L.U.M.	A.C.W.F.D.
	A.C.W.F.D.	ACUSTIC CORE WOOD FLUSH DOOR
<b>B</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
	BLDO.	BUILDING
	BU	STEEL BUILT-UP (TO OWSJ)
	BP	BASE PLATE
<b>C</b>	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
<b>D</b>	DIA.	DIAMETER
	DIM.	DIMENSION
	DCBHM	DOUBLE CATCH BASIN MANHOLE
	DN.	DOWN
	DWG.	DRAWING
	DF	DRINKING FOUNTAIN
<b>E</b>	EA.	EACH
	E.F.	EACH FACE
	E.W.	EACH WAY
	ELEC.	ELECTRICAL
	ELEV.	ELEVATION
	EQ.	EQUAL
	EQUIP.	EQUIPMENT
	EX.	EXISTING
	EXT.	EXTERIOR
<b>F</b>	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
<b>G</b>	G1S	GOOD ONE SIDE
	G2S	GOOD TWO SIDES
	GALV.	GALVANIZED
	GRAN.	GRANULAR
	GYP.	GYP SUM
	GWB	GYP SUM WALL BOARD
<b>H</b>	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
<b>I</b>	INCL.	INCLUDED
	I.F.	INSIDE FACE
	INSUL.	INSULATION
<b>J</b>	JAN.	JANITOR
<b>L</b>	L.C.C.	LEAD COATED COPPER
<b>M</b>	MH.	MANHOLE
	MANUF.	MANUFACTURED
	MCJ.	MASONRY CONTROL JOINT
	M.O.	MASONRY OPENING
	MAX.	MAXIMUM
	MECH.	MECHANICAL
	MTD.	MOUNTED
	MEMB.	MEMBRANE
	MIRR.	MIRRORED
<b>N</b>	NBC	NATIONAL BUILDING CODE
	N.I.C.	NOT IN CONTRACT
	N.T.S.	NOT TO SCALE
	No.	NUMBER
<b>O</b>	O.C.	ON CENTRE
	OSC	ONTARIO BUILDING CODE
	OSB	ORIENTED STRAND BOARD
	O.D.	OUTSIDE DIAMETER
	O.F.	OUTSIDE FACE
	OWSJ	OPEN WEB STEEL JOIST
<b>P</b>	PED.	PEDESTAL
	PLAM.	PLASTIC LAMINATE
	PLYWD.	PLYWOOD
	POLY.	POLYETHYLENE
	PREFIN.	PREFINISHED
	P.T.	PRESSURE TREATED
	PTD.	PAINTED
	P.SF.	PRESSED STEEL FRAME
<b>Q</b>	Q.T.	QUARRY TILE
<b>R</b>	RAD.	RADIUS
	R.W.L.	RAIN WATER LEADER
	REINF.	REINFORCED/REINFORCING
	REQD	REQUIRED
	REQTS.	REQUIREMENTS
	R.D.	ROOF DRAIN
	RM.	ROOM
	R.O.	ROUGH OPENING
<b>S</b>	SNL	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
<b>T</b>	STL.	STEEL
	SF.	STEP FOOTING
	STOR.	STORAGE
	STM.	STORM
	STRUCT.	STRUCTURAL
	SUSP.	SUSPENDED
<b>U</b>	U/G	UNDERGROUND
	US	UNDERSIDE OF
	U.N.O.	UNLESS NOTED OTHERWISE
<b>V</b>	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
<b>W</b>	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

EXTERIOR WALL ASSEMBLIES TAG

INTERIOR WALL ASSEMBLIES TAG

DENOTES: CEILING TYPE

DENOTES: DOOR NUMBER

DENOTES: ELEVATION

ARROW INDICATES VIEW

DENOTES: ROOM NAME AND NUMBER

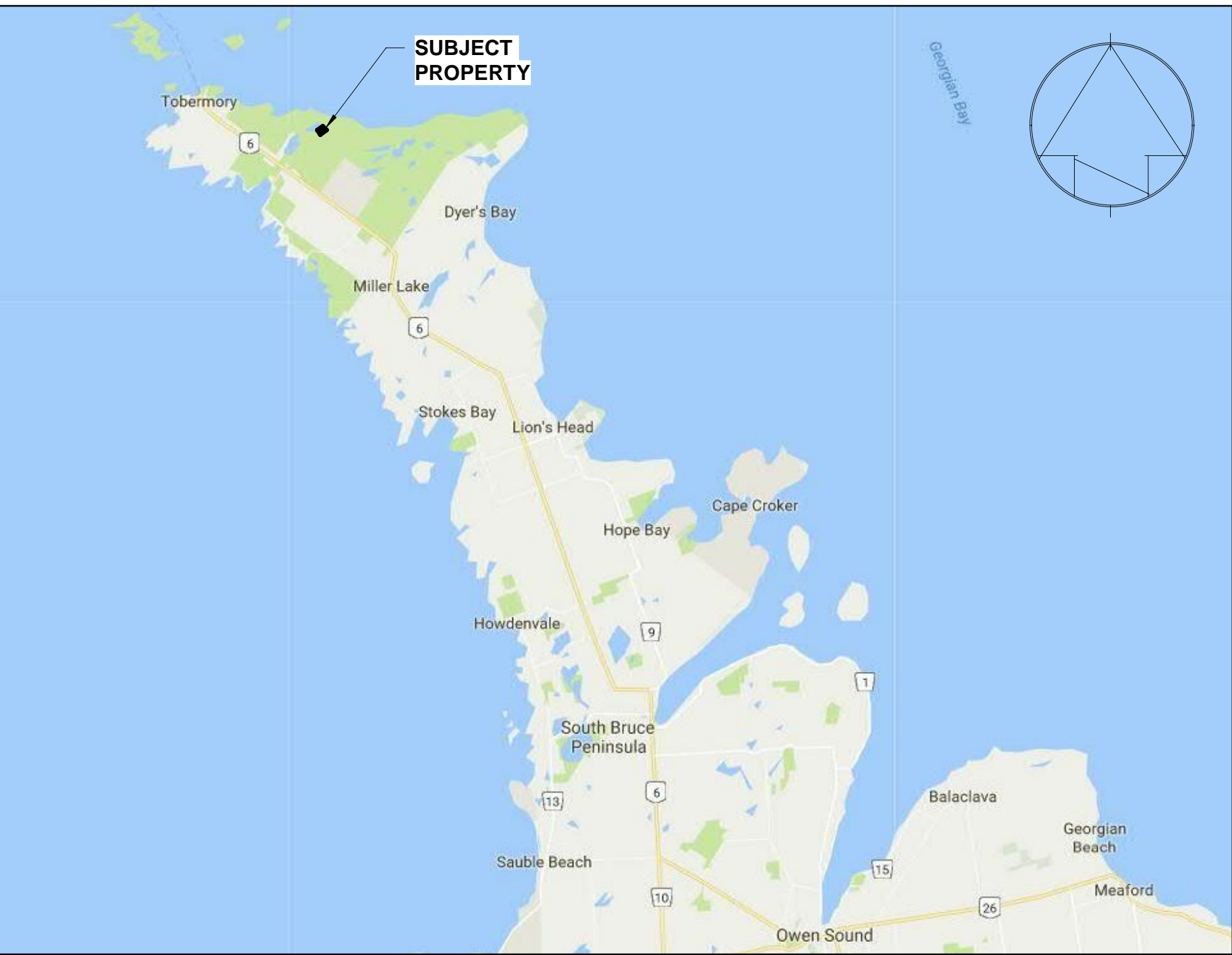
DENOTES: EXTERIOR MATERIAL KEY NOTE

DENOTES: WINDOW NUMBER

DENOTES: WALL FINISH

DENOTES: ROOF ASSEMBLY

WALL ASSEMBLIES:		
	<b>WT1 EXTERIOR STONE BASE WALL (INSULATED)</b> <ul style="list-style-type: none"><li>- 90mm CULTURED STONE VENEER (TO MATCH RECEPTION BUILDING) STYLE &amp; COLOUR TO BE APPROVED BY AECOM</li><li>- 25mm AIR SPACE</li><li>- CONT. AIR &amp; VAPOUR BARRIER MEMBRANE</li><li>- REINFORCED 190mm THICK CONCRETE MASONRY UNITS (REFER TO STRUCTURAL)</li><li>- EPOXY PAINTED FINISH</li></ul>	
	<b>WT2 EXTERIOR WALL - WOOD SIDING (INSULATED)</b> <ul style="list-style-type: none"><li>- 16mm VERTICAL WOOD SIDING BY MAIBEC em+ PROFILE: T.B.D. BY PARKS CANADA</li><li>- HORIZONTAL WOOD STRAPPING @ 400mm O.C.</li><li>- 75mm VERTICAL GALV. STEEL Z-GIRTS C/W 75mm RIGID XPS INSULATION</li><li>- CONT. AIR &amp; VAPOUR BARRIER MEMBRANE</li><li>- REINFORCED 190mm THICK CONCRETE MASONRY UNITS (REFER TO STRUCTURAL)</li><li>- EPOXY PAINTED FINISH</li></ul>	
	<b>WT2 EXTERIOR WALL - WOOD SIDING (INSULATED)</b> <ul style="list-style-type: none"><li>- 16mm VERTICAL WOOD SIDING BY MAIBEC em+ PROFILE: T.B.D. BY PARKS CANADA</li><li>- HORIZONTAL WOOD STRAPPING @ 400mm O.C.</li><li>- CONT. WATERPROOFING MEMBRANE</li><li>- 16mm P.T. PLYWOOD T&amp;G</li><li>- 38x140mm S.P.F. WOOD STUDS @ 400mm O.C.</li><li>- c/w SPRAY APPLIED INSULATION, MIN. R-33 (OVER SPRAY &amp; CUT FLUSH WITH STUDS)</li><li>- 16mm GYP SUM WALL BOARD, PAINTED FINISH</li></ul>	
	<b>FOUNDATION WALL - REFER TO STRUCTURAL</b> <ul style="list-style-type: none"><li>- 50mm INSUL. (1200mm BELOW GRADE)</li><li>- CAST-IN-PLACE CONCRETE WALL (REFER TO STRUCTURAL)</li></ul>	
	<b>P1 INTERIOR CONCRETE BLOCK PARTITION</b> <ul style="list-style-type: none"><li>- 190mm THICK CONCRETE MASONRY UNITS (REFER TO STRUCTURAL)</li><li>- EPOXY PAINTED FINISH (REFER TO ROOM FINISH SCHEDULE)</li></ul> <p>NOTE: ALL UNFINISHED EXPOSED EDGES TO BE BULLNOSED.</p>	
	<b>P2 INTERIOR CONCRETE BLOCK PARTITION</b> <ul style="list-style-type: none"><li>- 140mm THICK CONCRETE MASONRY UNITS (REFER TO STRUCTURAL)</li><li>- EPOXY PAINTED FINISH (REFER TO ROOM FINISH SCHEDULE)</li></ul> <p>NOTE: ALL UNFINISHED EXPOSED EDGES TO BE BULLNOSED.</p>	
	<b>P3 INTERIOR WOOD STUD PARTITION</b> <ul style="list-style-type: none"><li>- 16mm GYP SUM WALL BOARD, PAINTED FINISH</li><li>- 38x140mm S.P.F. WOOD STUDS @ 300mm O.C. (POLY PROTECT)</li><li>- 16mm GYP SUM WALL BOARD, PAINTED FINISH</li></ul>	
	<b>P4 FIRE RATED INTERIOR WOOD STUD PARTITION</b> <ul style="list-style-type: none"><li>- 16mm TYPE-X GYP SUM WALL BOARD, PAINTED FINISH</li><li>- 38x158mm (CUSTOM TO SUIT BLOCK WIDTH) S.P.F. No.1/2 WOOD STUDS @ 300mm O.C.</li><li>- C/W MINERAL WOOL INSULATION</li><li>- 16mm TYPE-X GYP SUM WALL BOARD, PAINTED FINISH</li></ul> <p>DESIGN AS PER ULC WALL No. W301</p>	
ROOF ASSEMBLIES:		
	<b>MAIN ROOF</b> <ul style="list-style-type: none"><li>- STANDING SEAM METAL ROOFING AND SUPPORT SYSTEM: BY W/VEST OR APPROVED EQUAL.</li><li>- 150mm RIGID INSULATION MIN. R32</li><li>- CONTINUOUS WATER PROOFING MEMBRANE</li><li>- 38mm T&amp;G WOOD DECKING (REFER TO STRUCTURAL)</li><li>- GLULAM BEAMS &amp; PURLINS (REFER TO STRUCTURAL)</li></ul>	
	<b>CANOPY ROOF</b> <ul style="list-style-type: none"><li>- STANDING SEAM METAL ROOFING AND SUPPORT SYSTEM: BY W/VEST OR APPROVED EQUAL.</li><li>- CONTINUOUS WATER PROOFING MEMBRANE</li><li>- 38mm T&amp;G WOOD DECKING (REFER TO STRUCTURAL)</li><li>- GLULAM BEAMS &amp; PURLINS (REFER TO STRUCTURAL)</li></ul>	
CEILING ASSEMBLIES:		
	<b>SHOWER CEILING</b> <ul style="list-style-type: none"><li>- HEAVY GAUGE STEEL STUD FRAMING AT 300mm O.C.</li><li>- 13mm MOISTURE RESISTANT CEMENT BOARD</li><li>- PAINTED FINISH (REFER TO ROOM FINISH SCHEDULE)</li></ul>	
FLOOR ASSEMBLIES:		
	<b>SLAB ON GRADE</b> <ul style="list-style-type: none"><li>- FLOOR FINISH - REFER TO ROOM FINISH PLAN</li><li>- 150mm CONCRETE SLAB</li><li>- (C/W HYDRONIC HEATING REFER TO MECHANICAL)</li><li>- CONT. POLY VAPOUR BARRIER</li><li>- 75mm RIGID INSULATION - R15 (CONTINUOUS)</li></ul>	
NOTE: ALL EXPOSED GYP SUM BOARD (WALLS AND CEILINGS) TO BE IMPACT AND ABUSE RESISTANT BOARD.		

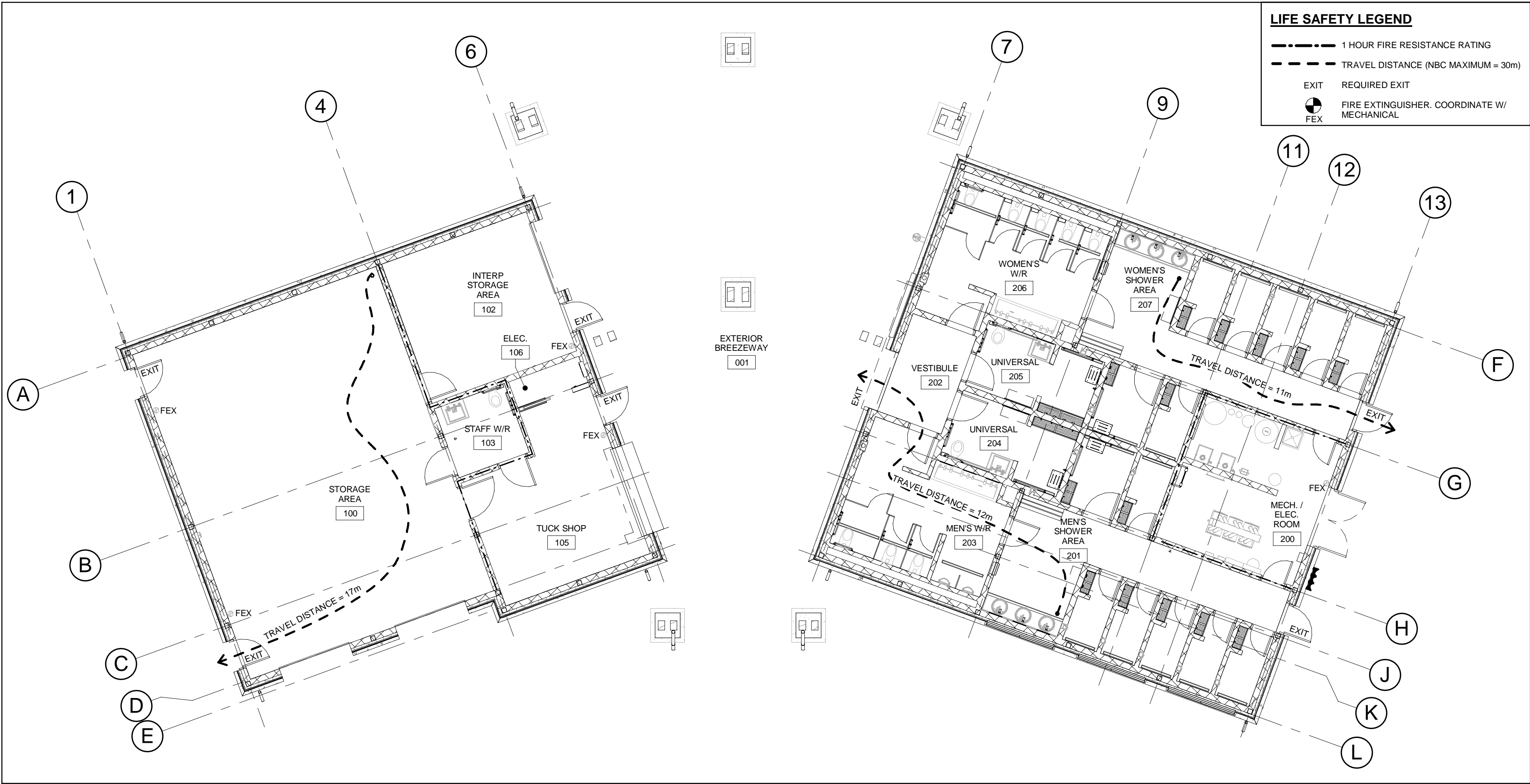


LOCATION PLAN

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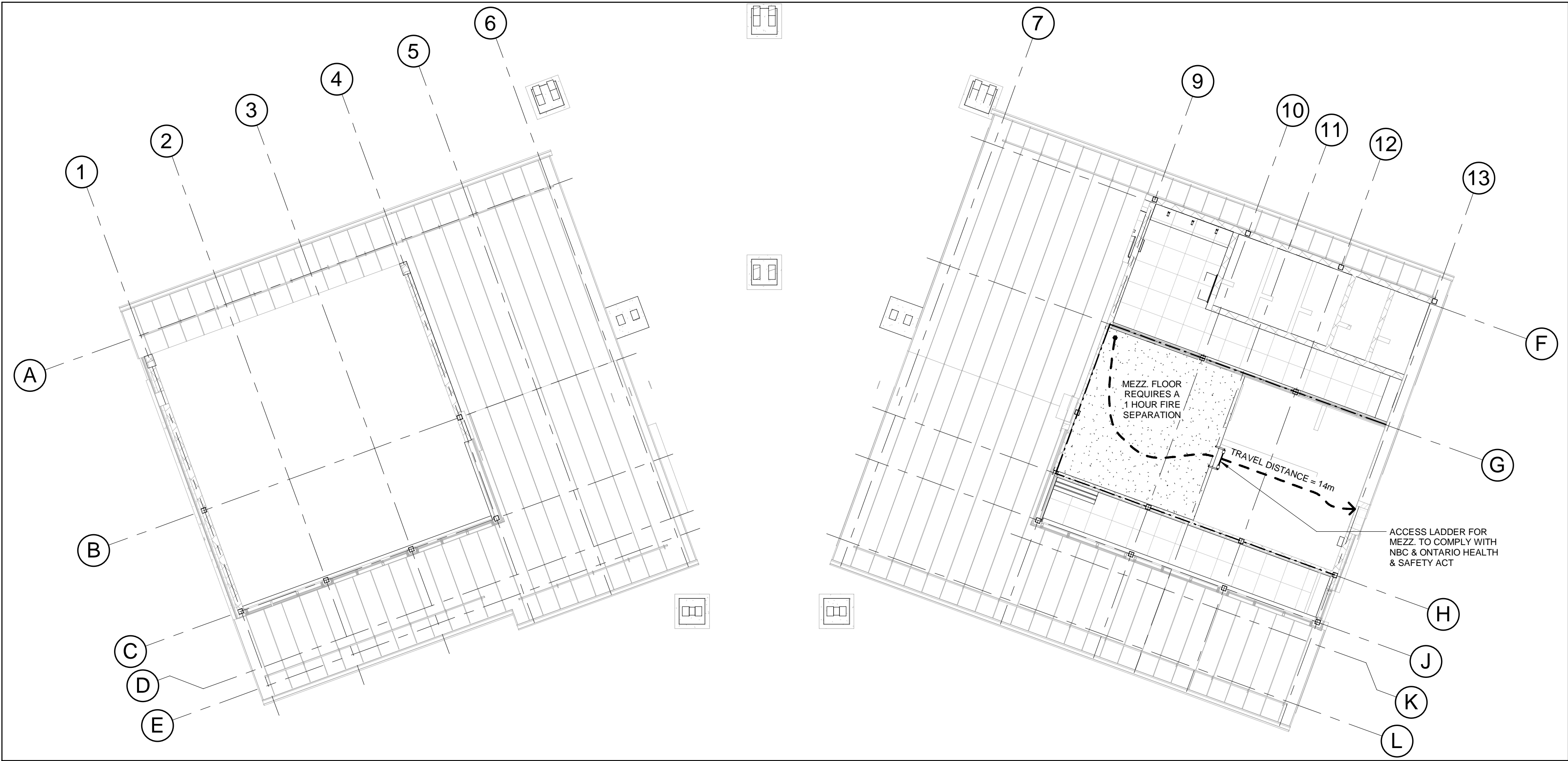
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REVISIONS							
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		B Sheet Number			B Sur feuille Numero		
LINEAR DIMENSIONS IN MILLIMETERS			Dimensions lineaires en millimetres				
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PARKS CANADA							
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Project title / Titre du projet							
CYPRUS LAKE CAMPGROUND - THE HUB AMENITY BUILDING							
Drawing title / Titre du Dessin							
REFERENCE SHEET							
Plot Scale / Echelle							
As indicated							
Drawn by/ Dessin par			Date				
JA			2017- 10- 05				
Field Recording by/ Releve- Temoin par			Date				
Approved by/ Approuve par			Date				
RT			2017- 04- 06				
Checked by/ Verifie par			Date				
RT			2017- 04- 06				
Project No./No. du projet		Asset No.		Sheet No./ Feuille No.			
60554372							
Drawing Re No./No. du Dessin				A1			





1 LIFE SAFETY PLAN

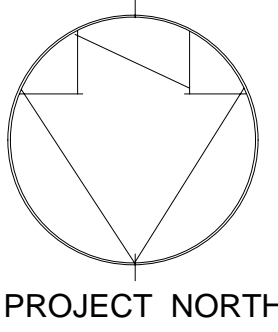
A7 A2 1:100



4 HIGH LEVEL WINDOW PLAN

A7 A2 1:100

AECOM Canada Architects Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario N2P 0A4 519.650.5313 Project Name: THE HUB AMENITY 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:		<input checked="" type="checkbox"/> New <input type="checkbox"/> Addition <input type="checkbox"/> Alteration	<input type="checkbox"/> Part 11 11.1 to 11.4	<input checked="" type="checkbox"/> Part 3	<input type="checkbox"/> 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 390 Total 390				1.1.3.2 1.1.3.2	
4	Gross Area (m2): Existing - New 390 Total 390				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:		<input type="checkbox"/> Entire Building <input type="checkbox"/> Basement Only <input type="checkbox"/> In Lieu of Roof Rating <input checked="" type="checkbox"/> Not Required		3.2.2.20 to .83 3.2.1.5 3.2.2.17 9.10.8	
9	Standpipe Required:		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		3.2.9 N/A	
10	Fire Alarm Required:		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		3.2.4 9.10.18.2	
11	Water Service / Supply is Adequate:		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		3.2.5.7 N/A	
12	High Building:		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		3.2.6 N/A	
13	Permitted Construction: <input type="checkbox"/> Combustible <input type="checkbox"/> Non-Combustible <input checked="" type="checkbox"/> Both Actual Construction: <input checked="" type="checkbox"/> Combustible <input type="checkbox"/> Non-Combustible <input type="checkbox"/> Both				3.2.2.20 to .83 9.10.6	
14	Mezzanine (s) Area (m2): 24				3.2.1.1.(3) to (8) 9.10.4.1	
15	Occupant Load Based On: SHOWER / VISITOR SIDE STAFF (EAST) SIDE Total:		<input type="checkbox"/> m2 / person Occupancy: A2 Occupancy: A2 Occupancy: Occupancy: Load: 56 persons <input checked="" type="checkbox"/> design of building Load: 50 persons Load: 6 persons Load: persons Load: persons		3.1.17 9.9.1.3	
16	Barrier - Free Design: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (explain)				3.8 9.5.2	
17	Hazardous Substances: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				3.3.1.2 & 3.3.1.19 9.10.1.3.(4)	
18	Fire	Horizontal Assemblies FRR (Hours)	Listed Design No. or Description (SB-2)		3.2.2.20 to .83 3.2.1.4 9.10.8 9.10.9	
	Resistance					
	Rating	Mezz. Floors: 1 Hours				
	(FRR)	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				



DRAWING NO. DRAWING NAME

REFERENCE DRAWINGS

0	2018- 06- 19	ISSUED FOR TENDER	JA	RB
NO.	DATE	DESCRIPTION	Drawn By/ Dessine par	Approved/ Approuve

REVISIONS

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

LINEAR DIMENSIONS IN MILLIMETERS Dimensions lineaires en millimetres



Canada

PARKS CANADA

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**CYPRUS LAKE  
CAMPGROUND - THE  
HUB AMENITY BUILDING**

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

Plot Scale / Echelle  
As indicated

Drawn by/ Dessin par  
JA Date  
2017- 10- 05

Field Recording by/  
Releve- Terrain par Date

Approved by/ Approuve par  
RT Date  
2017- 04- 06

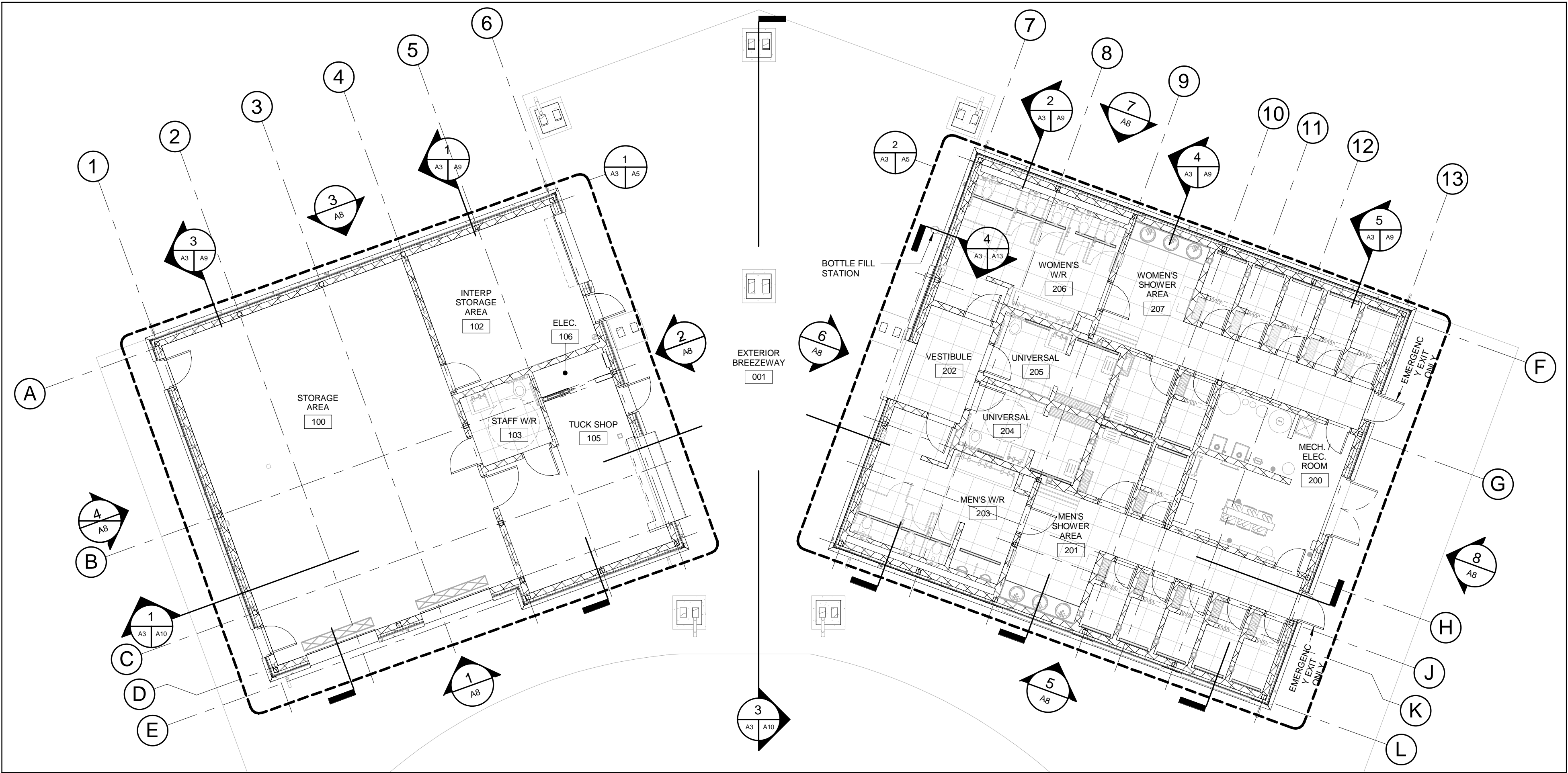
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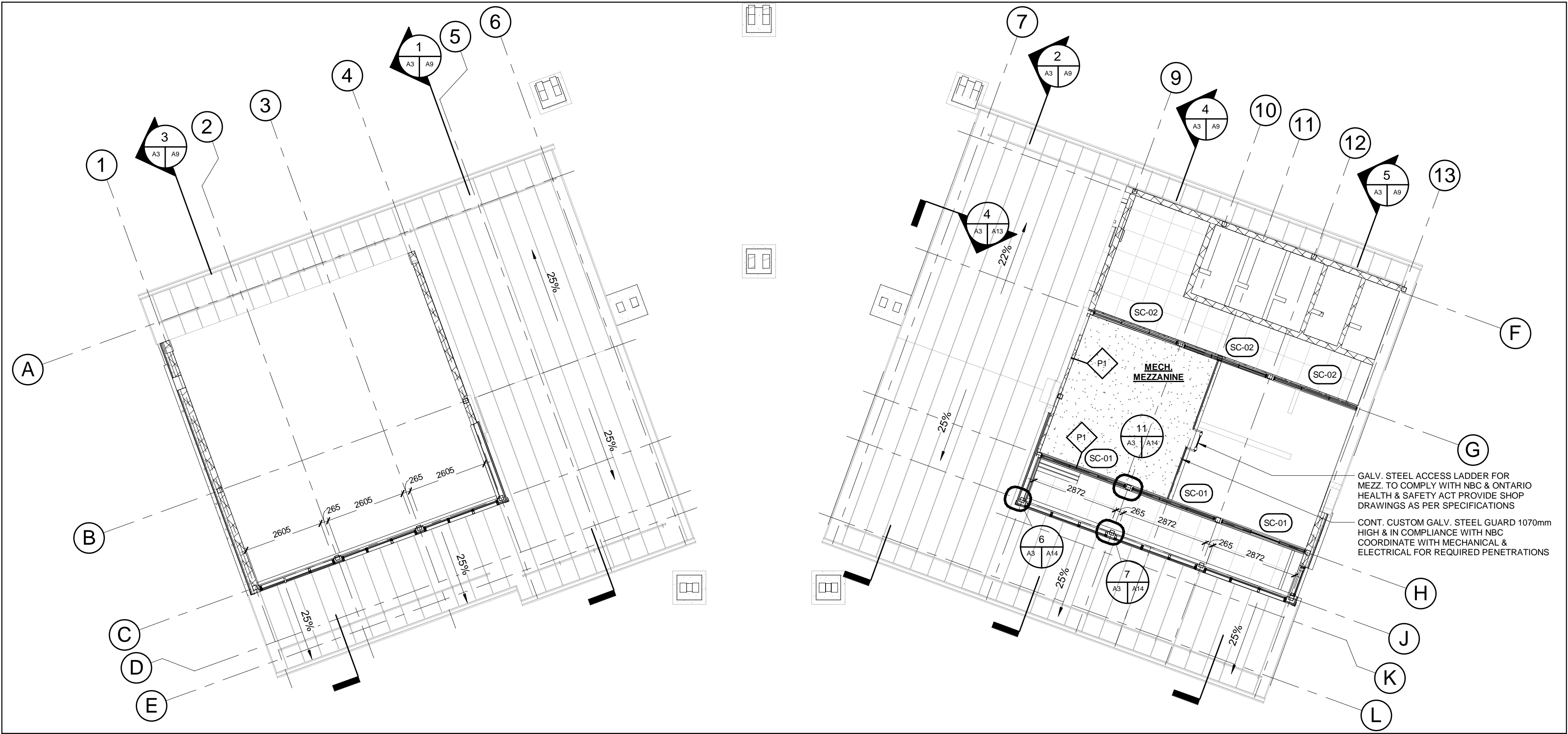
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A2





1 FLOOR PLAN  
A7 A3 1:100



2 HIGH LEVEL WINDOW PLAN  
A7 A3 1:100

**LEGEND:**

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

- 1 HR F.R.R.
- \* DOORS W/ AUTOMATIC DOOR OPERATORS
- F.D. FLOOR DRAIN
- ◇ WALL ASSEMBLY TYPE - REFER TO DWG. A1
- △ AUTOMATIC DOOR OPERATOR PUSH BUTTON
- M.B. MECHANICAL PUSH BUTTON KEY CODE ACCESS COORDINATE WITH DOOR SCHEDULE
- GB BARRIER FREE GRAB BAR. REFER TO TYP. DETAIL
- TPD TOILET PAPER DISPENSER
- SND SANITARY NAPKIN DISPENSER
- MIR MIRROR
- CT CHANGE TABLE
- WR PAPER TOWEL & WASTE RECEPTACLE COMBO
- HD HAND DRYER
- SD SOAP DISPENSER
- PF PLUMBING FIXTURE (REFER TO MECHANICAL)

PROJECT NORTH

DRAWING NO. DRAWING NAME

REFERENCE DRAWINGS

REVISIONS

LINEAR DIMENSIONS IN MILLIMETERS Dimensions lineaires en millimetres

Parcs Canada Parks Canada

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CYPRUS LAKE CAMPGROUND - THE HUB AMENITY BUILDING

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FLOOR PLAN & HIGH LEVEL WINDOW PLAN

Plot Scale / Echelle  
As indicated

Drawn by/ Dessin par  
JA

Date  
2017- 10- 05

Field Recording by/ Relevé- Terrain par  
RT

Date  
2017- 10- 17

Approved by/ Approuvé par  
RT

Date  
2017- 10- 17

Checked by/ Verifié par  
RT

Date  
2017- 10- 17

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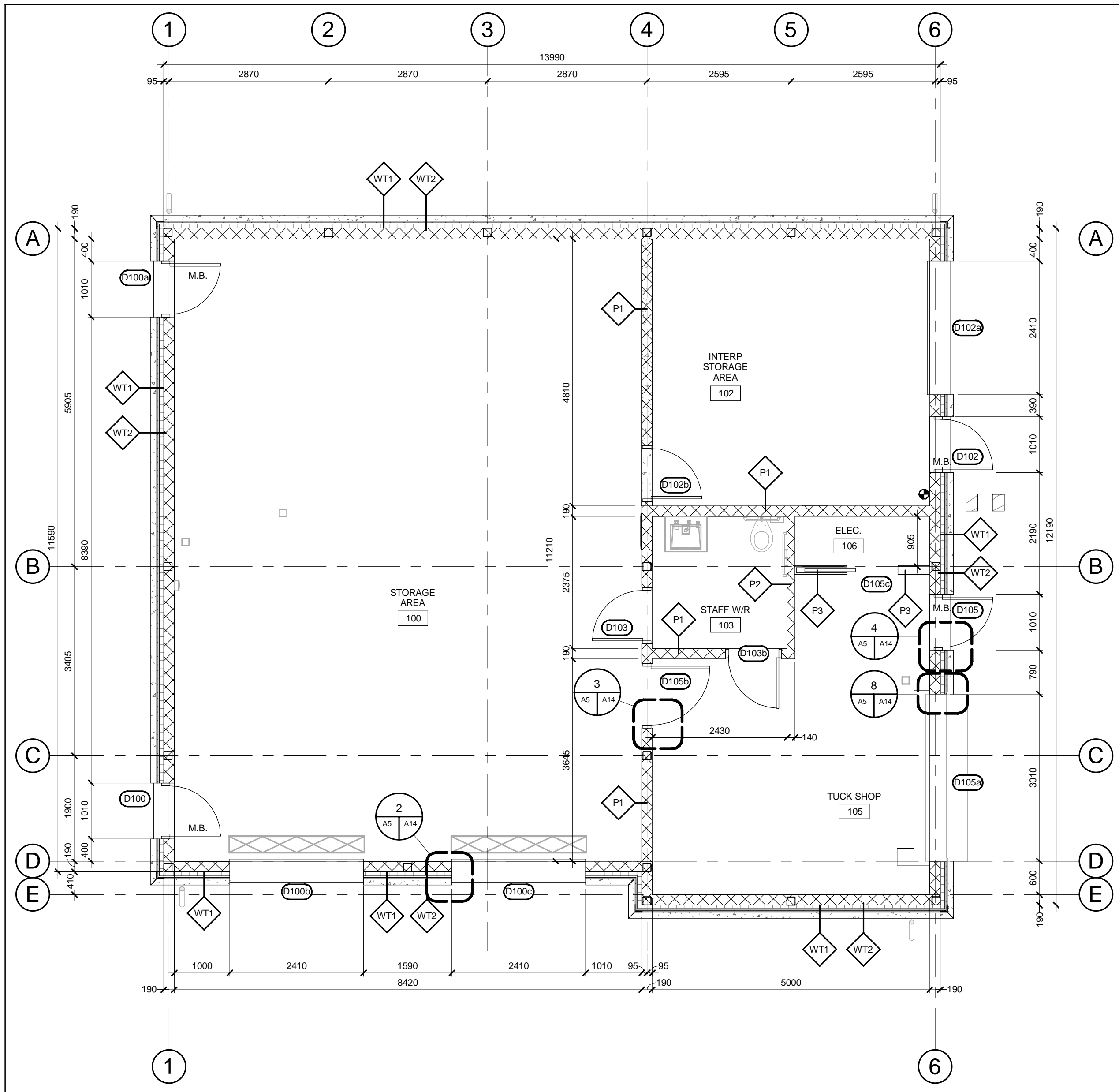
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A3

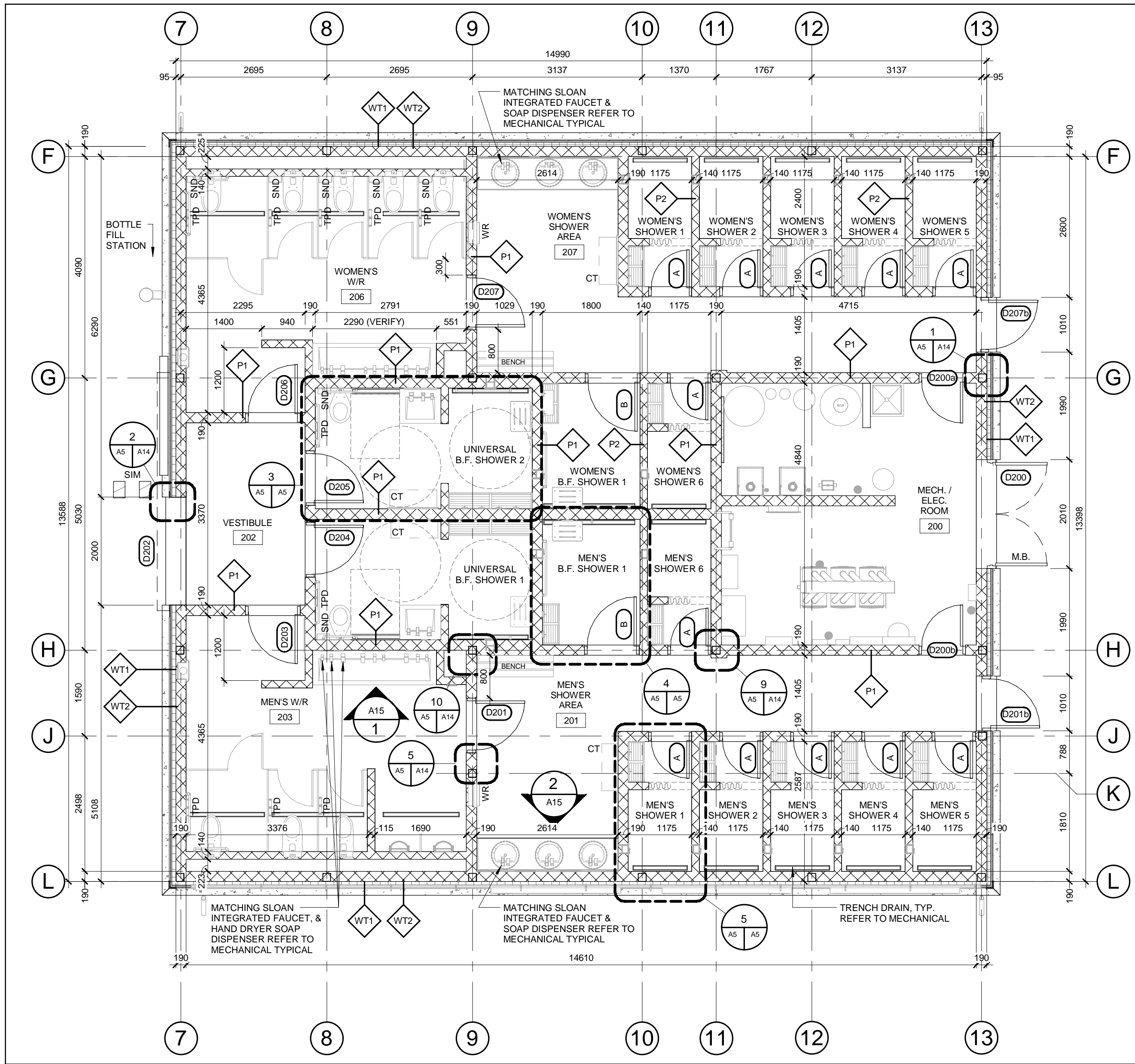




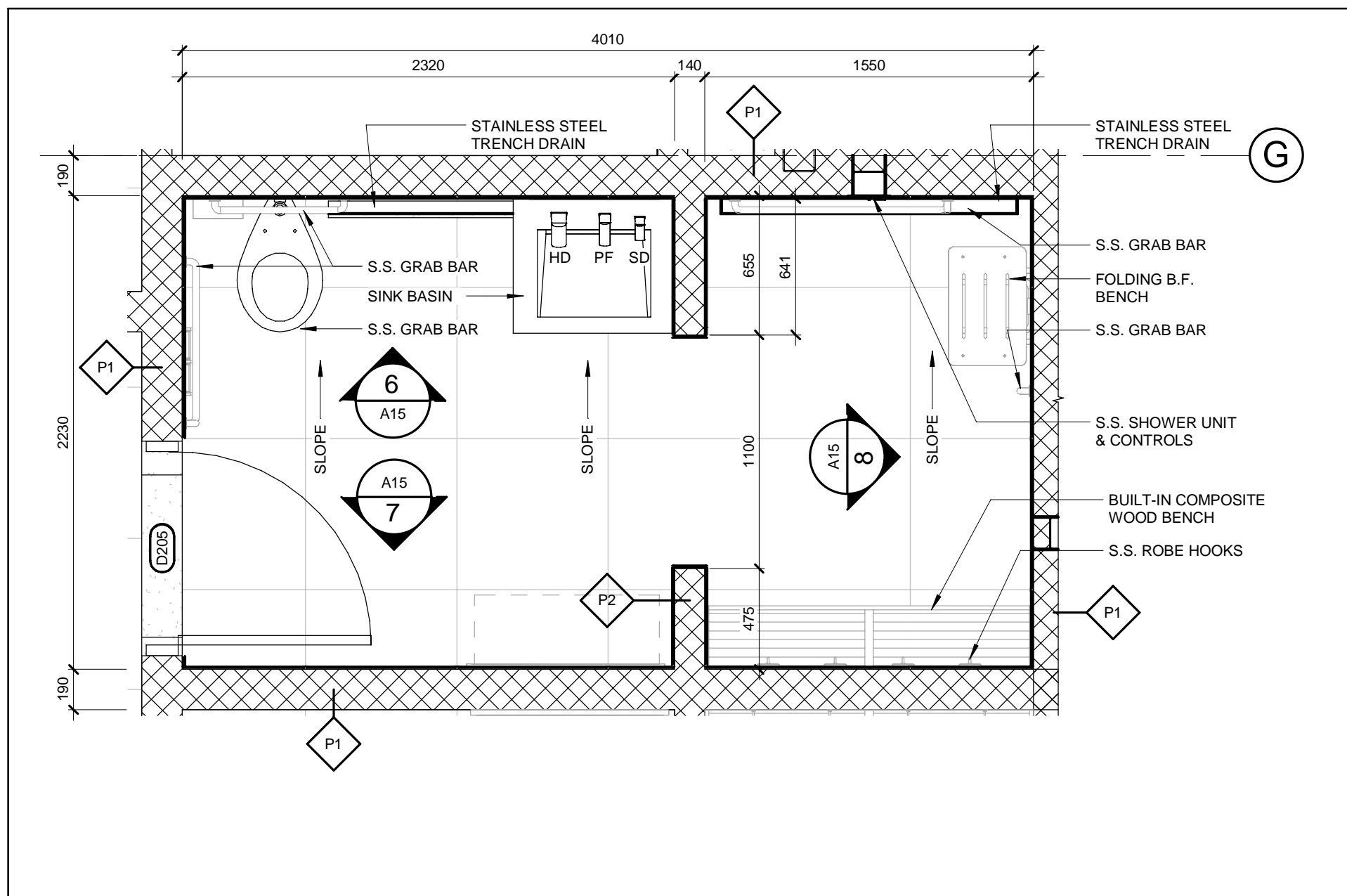




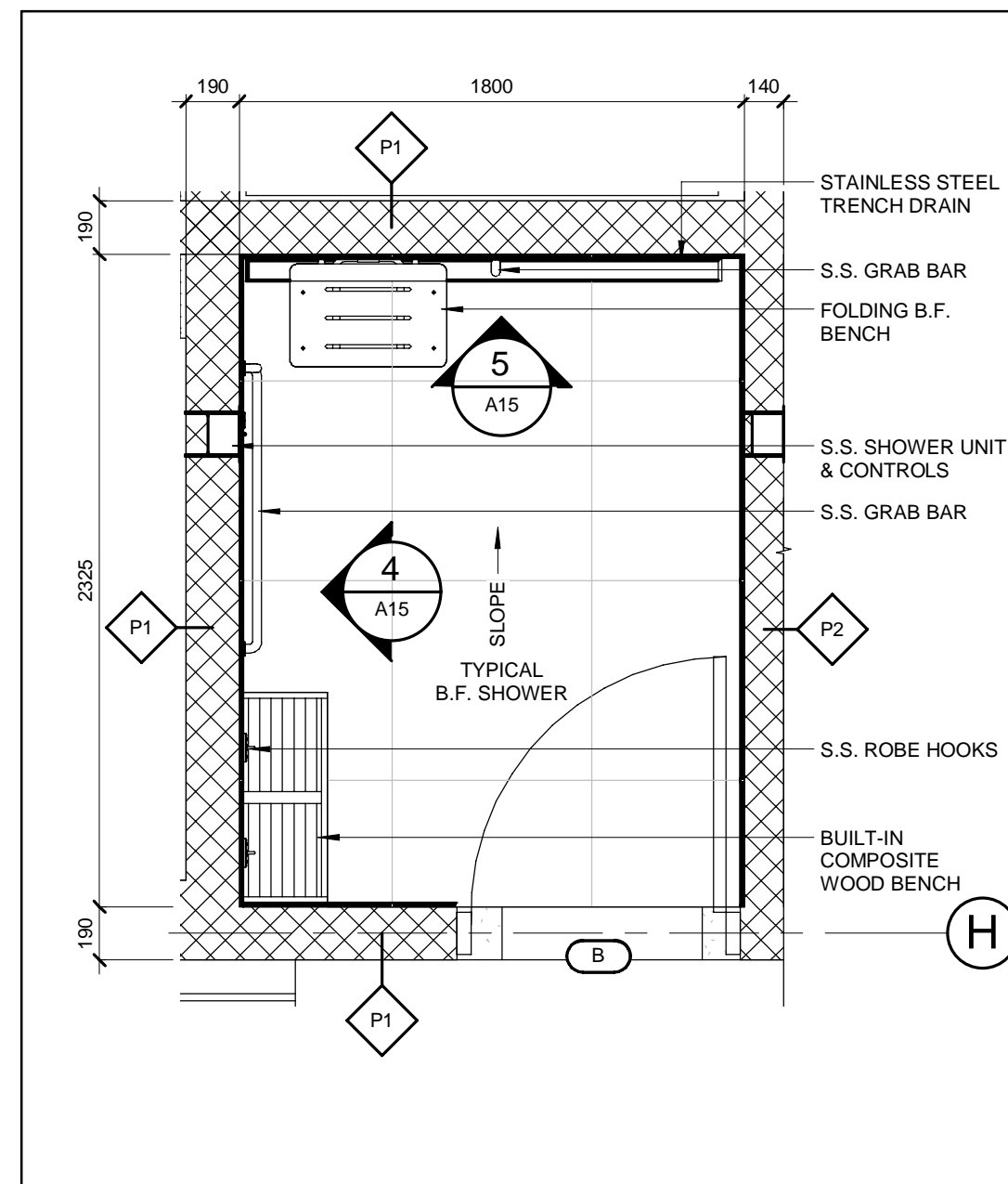
1 PLAN - EAST BUILDING  
A3 A5 1:60



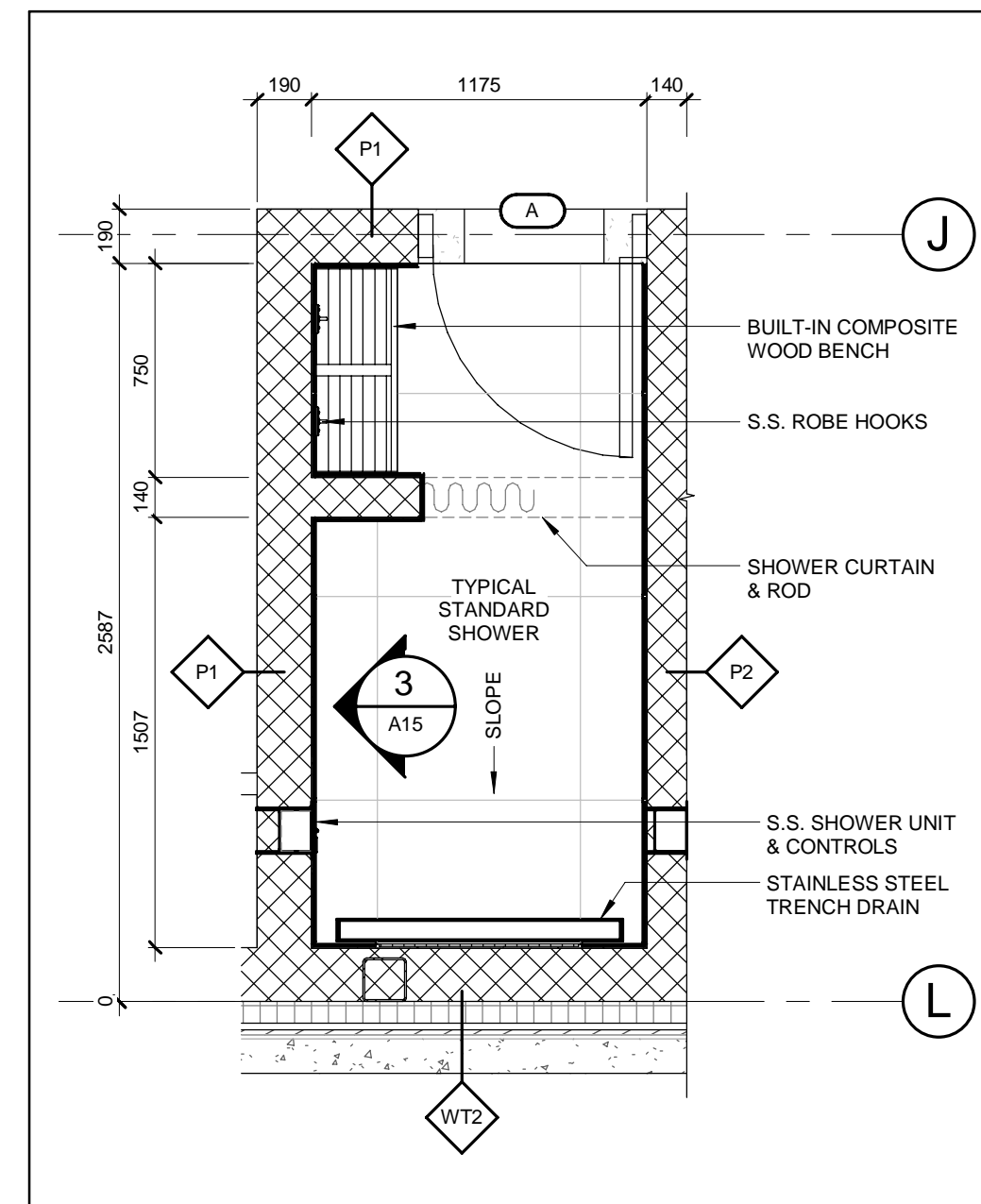
2 PLAN - WEST BUILDING  
A3 A5 1:60



3 PLAN - UNIVERSAL B.F. WASHROOM & SHOWER  
A5 A5 1:25

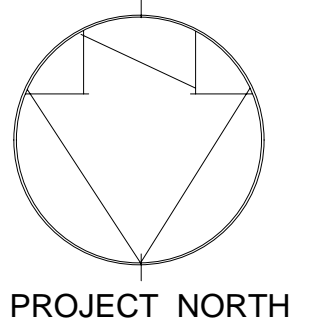


4 PLAN - B.F. SHOWER  
A5 A5 1:25



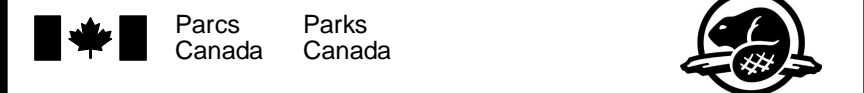
5 PLAN - STANDARD SHOWER  
A5 A5 1:25

- LEGEND:**
- NOTE: ALL EXTERIOR AND INTERIOR DIMENSIONS ARE TO THE FACE OF CONCRETE OR STUD UNLESS OTHERWISE NOTED
- 1 HR F.R.R.
  - \* DOORS W/ AUTOMATIC DOOR OPERATORS
  - F.D. FLOOR DRAIN
  - ◇ WALL ASSEMBLY TYPE - REFER TO DWG. A1
  - △ AUTOMATIC DOOR OPERATOR PUSH BUTTON
  - M.B. MECHANICAL PUSH BUTTON KEY CODE ACCESS COORDINATE WITH DOOR SCHEDULE
  - GB BARRIER FREE GRAB BAR. REFER TO TYP. DETAIL
  - TPD TOILET PAPER DISPENSER
  - SND SANITARY NAPKIN DISPENSER
  - M/R MIRROR
  - CT CHANGE TABLE
  - WR PAPER TOWEL & WASTE RECEPTACLE COMBO
  - HD HAND DRYER
  - SD SOAP DISPENSER
  - PF PLUMBING FIXTURE (REFER TO MECHANICAL)



DRAWING NO.		DRAWING NAME		
REFERENCE DRAWINGS				
0	2018- 06- 19	ISSUED FOR TENDER	JA	RB
NO.	DATE	DESCRIPTION	Drawn By/ Dessine par	Approved/ Approuve
		</		

LINEAR DIMENSIONS IN MILLIMETERS



Canada

PARKS CANADA

Type of Record /  
Type d'enregistrement

Project title / Titre du projet  
**CYPRUS LAKE  
CAMPGROUND - THE  
HUB AMENITY BUILDING**

Drawing title / Titre du Dessin  
**ENLARGED FLOOR  
PLANS**

Plot Scale / Echelle  
As indicated

Drawn by/ Dessin par  
JA Date  
2017- 10- 05

Field Recording by/  
Releve- Terrain par Date

Approved by/ Approuve par  
RT Date  
2017- 04- 06

Checked by/ Verifie par  
RT Date  
2017- 04- 06

Project No./No. du projet Asset No. Sheet No./  
60554372 Feuille No.

Drawing Re No./No. du Dessin

A5





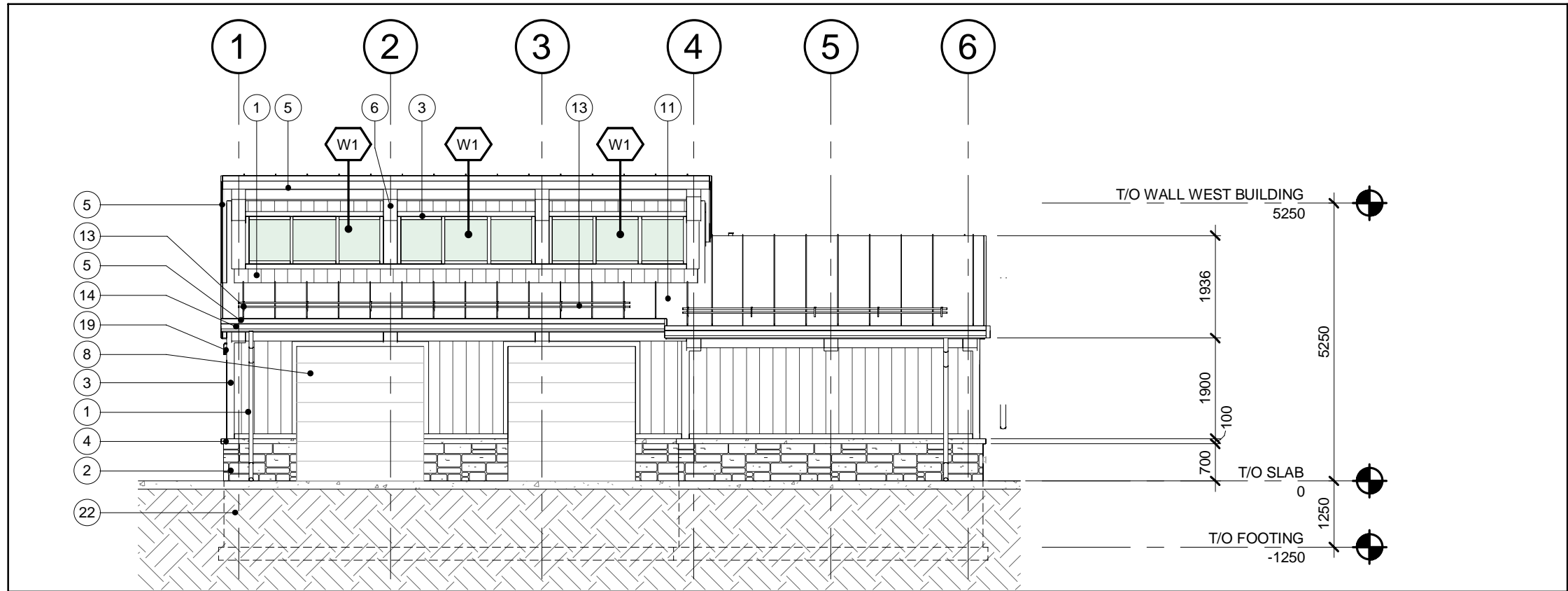




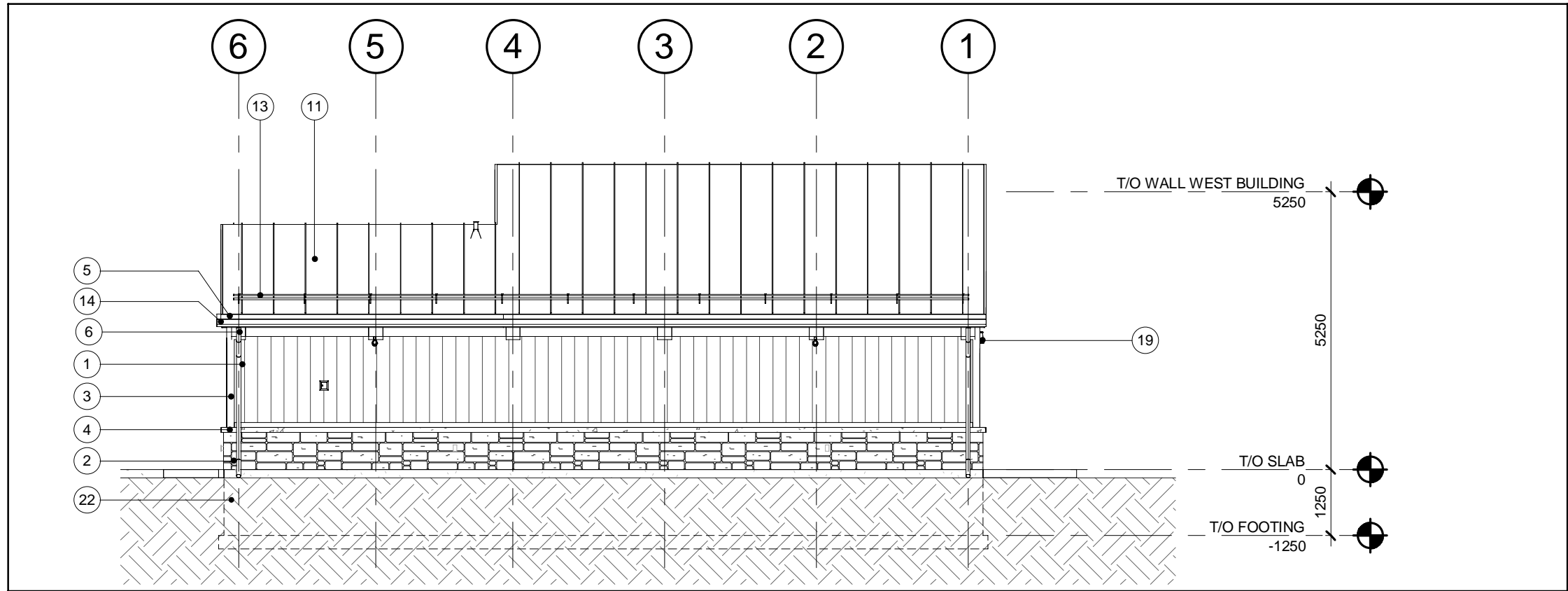
1	PREFINISHED VERTICAL SIDING BY MAIBEC em+ COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA	13	BAR TYPE SNOW GUARD COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA
2	CULTURED STONE VENEER (TO MATCH CAMPGROUND RECEPTION BUILDING) COLOUR AND STYLE TO BE APPROVED BY AECOM AND PARKS CANADA	14	PRE-FINISHED METAL GUTTER AND DOWNSPOUT, DENT AND VANDAL RESISTANT COLOUR TO MATCH FASCIA, c/w LEAF GUARD.
3	PREFINISHED MAIBEC WOOD TRIM (100mm WIDE) COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA	15	EXTERIOR WALL MOUNTED WATER BOTTLE FILL STATION
4	100mm PRE-CAST CONCRETE SILL c/w WITH DRIP EDGE COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA	16	BARRIER FREE POWER DOOR OPERATOR - PUSH BUTTON REFER TO SPECIFICATIONS
5	EXPOSED WOOD FASCIA - OILED FINISH COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA	17	WALL MOUNTED ELECTRICAL SERVICE METER REFER TO ELECTRICAL DRAWINGS
6	EXPOSED GLULAM TIMBER FRAMING (REFER TO STRUCTURAL) SEMI-TRANSPARENT, OILED FINISH, PROVIDE SAMPLES TO BE APPROVED	18	PRE-FINISHED METAL EXHAUST COVER / LOUVRE REFER TO MECHANICAL
7	INSULATED EXTERIOR HOLLOW METAL DOOR AND FRAME REFER TO DOOR SCHEDULE.	19	EXTERIOR WALL MOUNTED LIGHT FIXTURES REFER TO ELECTRICAL DRAWINGS
8	INSULATED EXTERIOR OVERHEAD DOOR REFER TO DOOR SCHEDULE.	20	EXTERIOR DISPLAY CABINETS WOOD AND GLASS CONSTRUCTION
9	ANODIZED BLACK ALUMINUM INSULATED EXTERIOR WINDOW FRAMES c/w INSULATED DOUBLE PANE GLAZING	21	CUSTOM EXTERIOR SOLID WOOD SLIDING TRACK DOOR (76mm THICK) c/w HEAVY DUTY STAINLESS STEEL TRACK HARDWARE & ACCESSORIES
10	ALUMINUM OPERABLE SERVICE WINDOW c/w INSULATED DOUBLE PANE GLAZING AND STAINLESS STEEL COUNTER	22	CONCRETE FOUNDATION
11	STANDING SEAM METAL ROOFING COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA		
12	PRE-FINISHED METAL FLASHING COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA		

Plot Scale / Echelle		
As Indicated		
Drawn by/ Dessin par JA		Date 2017 - 10 - 05
Field Recording by/ Releve-Temoins par		Date
Approved by/ Approuve par RT		Date 2017 - 04 - 06
Checked by/ Verifie par RT		Date 2017 - 04 - 06
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Drawing Re No./No. du Dessin		<b>A7</b>

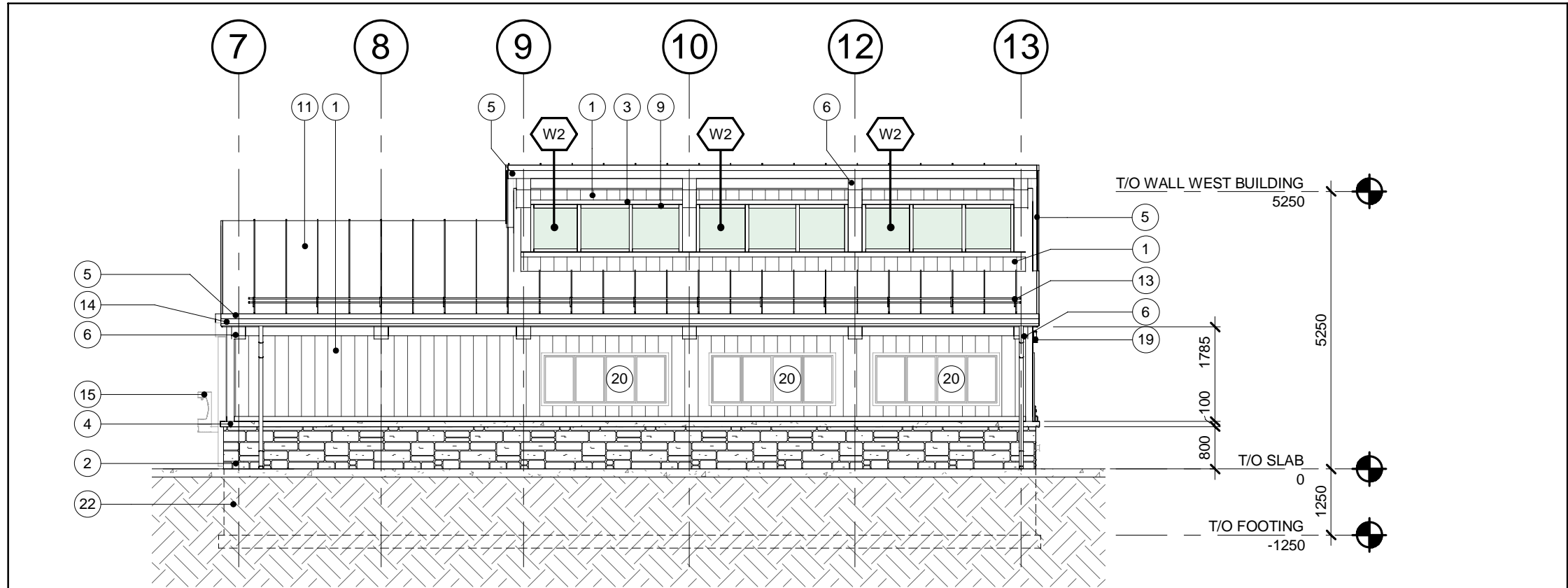




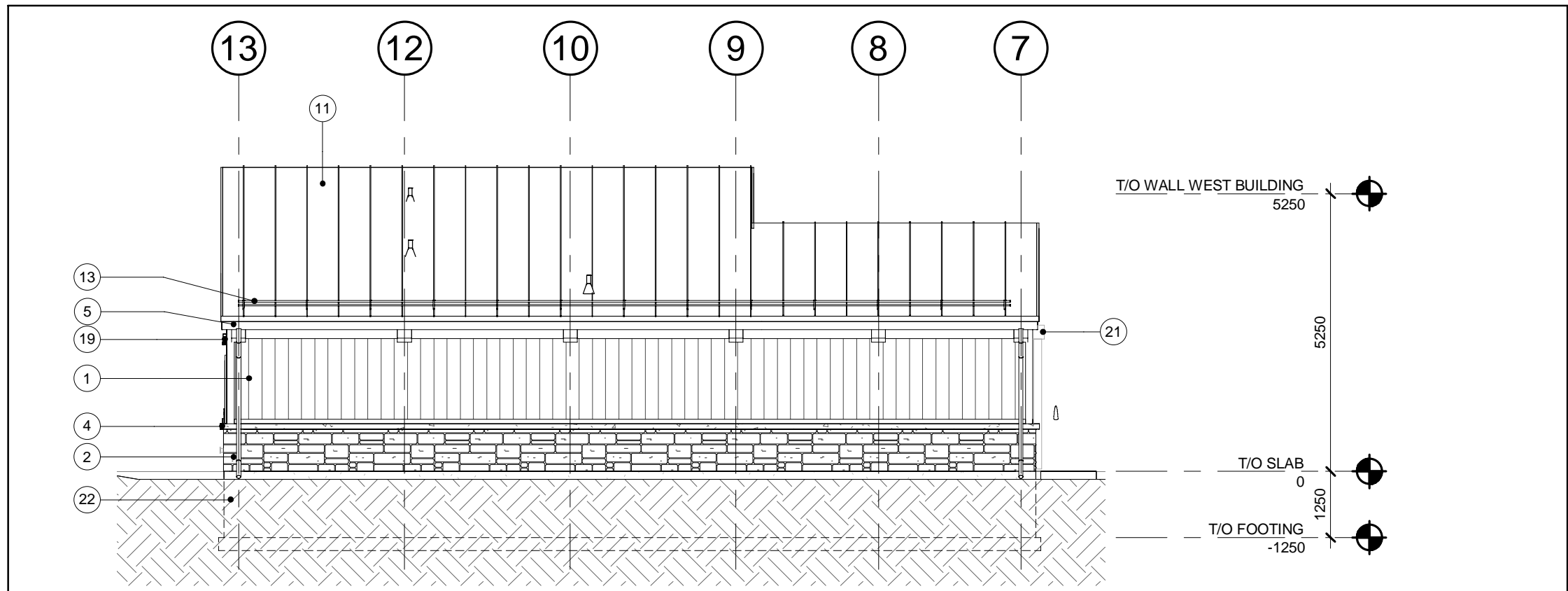
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A3 A8 1:100



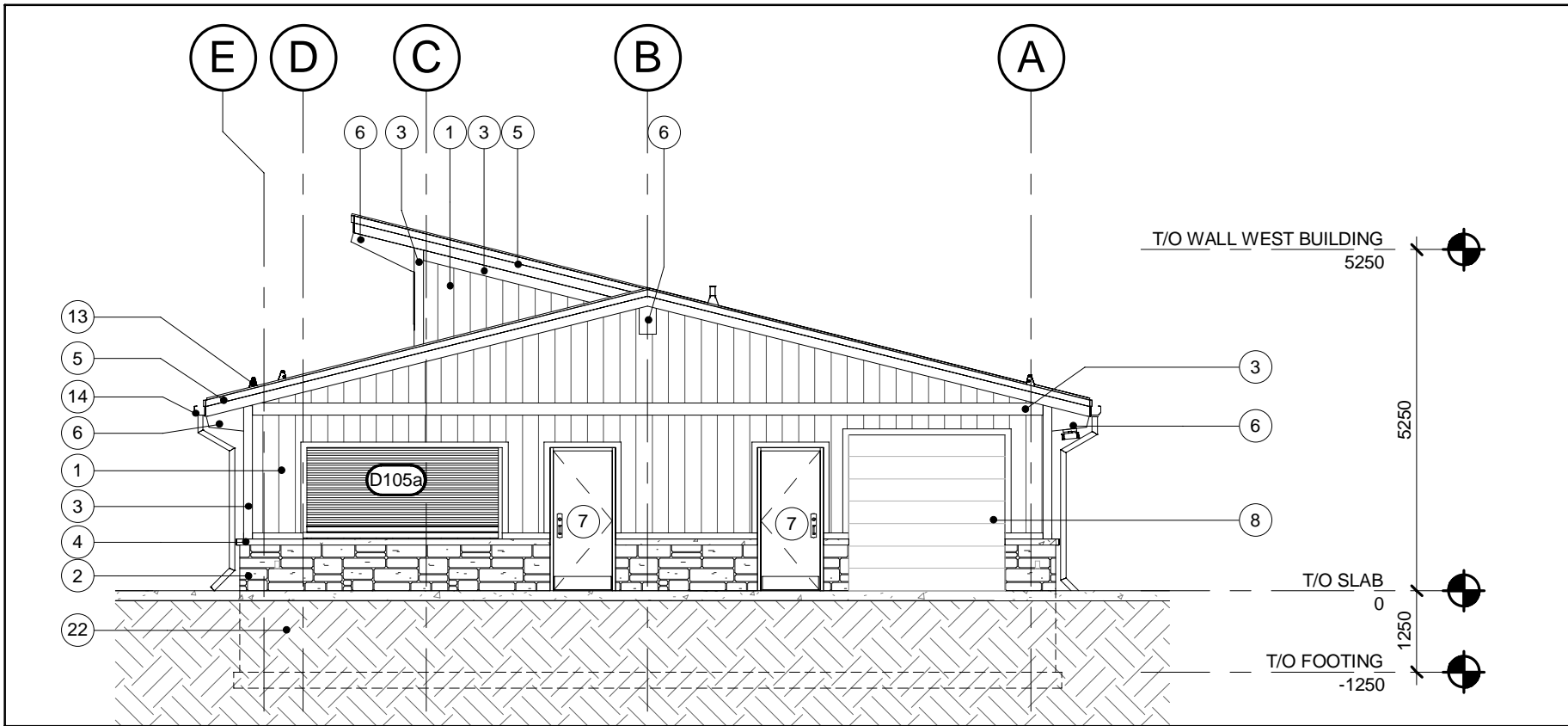
3 SOUTH ELEVATION - EAST BUILDING  
A3 A8 1:100



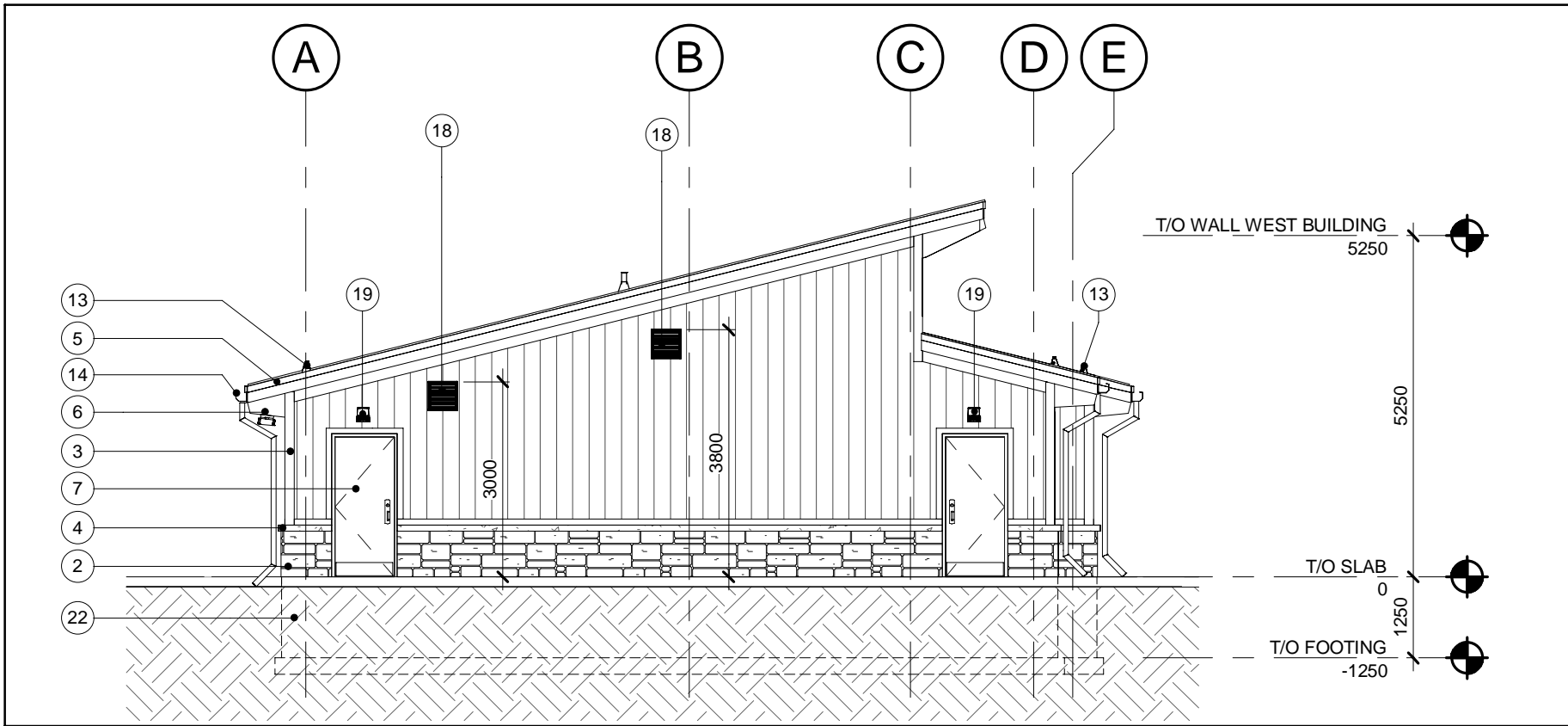
5 NORTH ELEVATION - WEST BUILDING  
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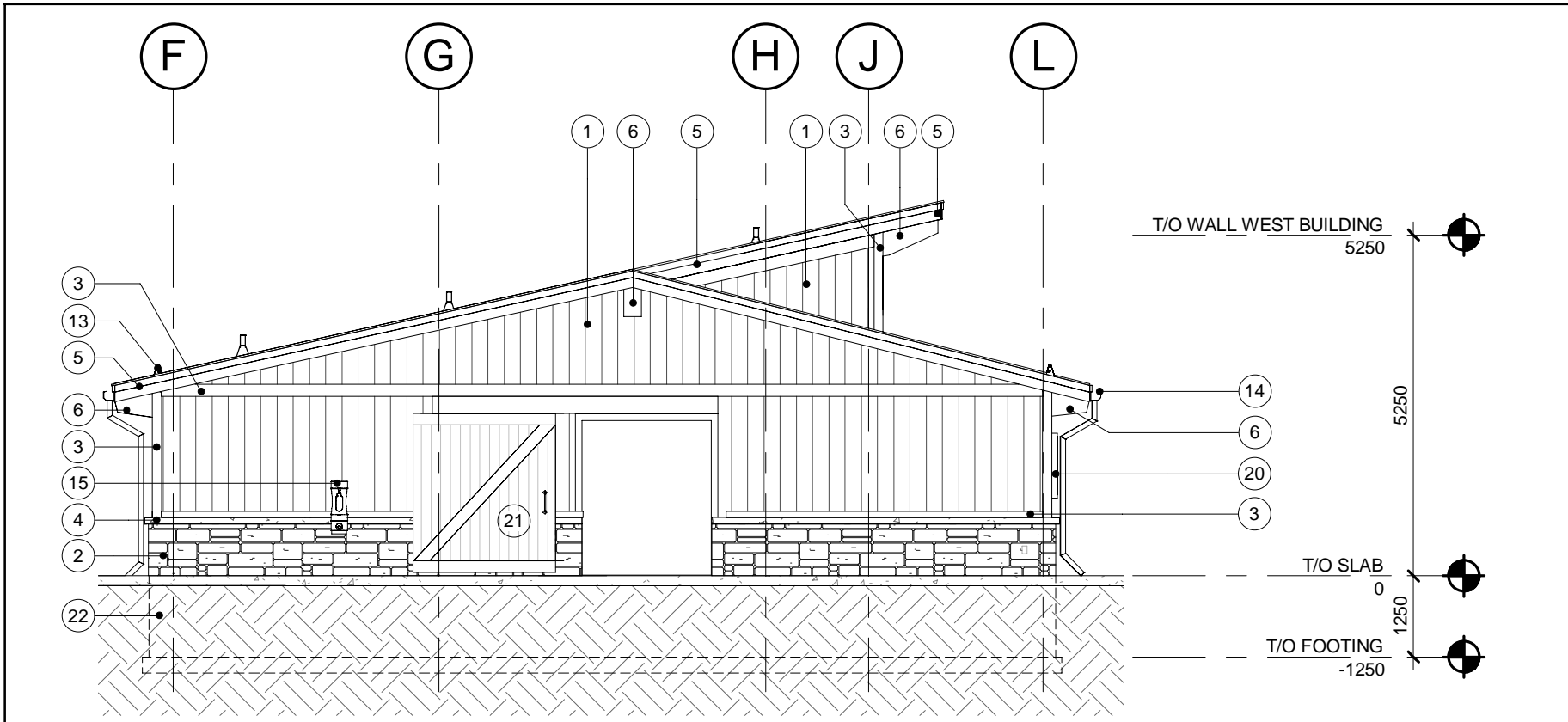
7 SOUTH ELEVATION - WEST BUILDING  
A3 A8 1:100



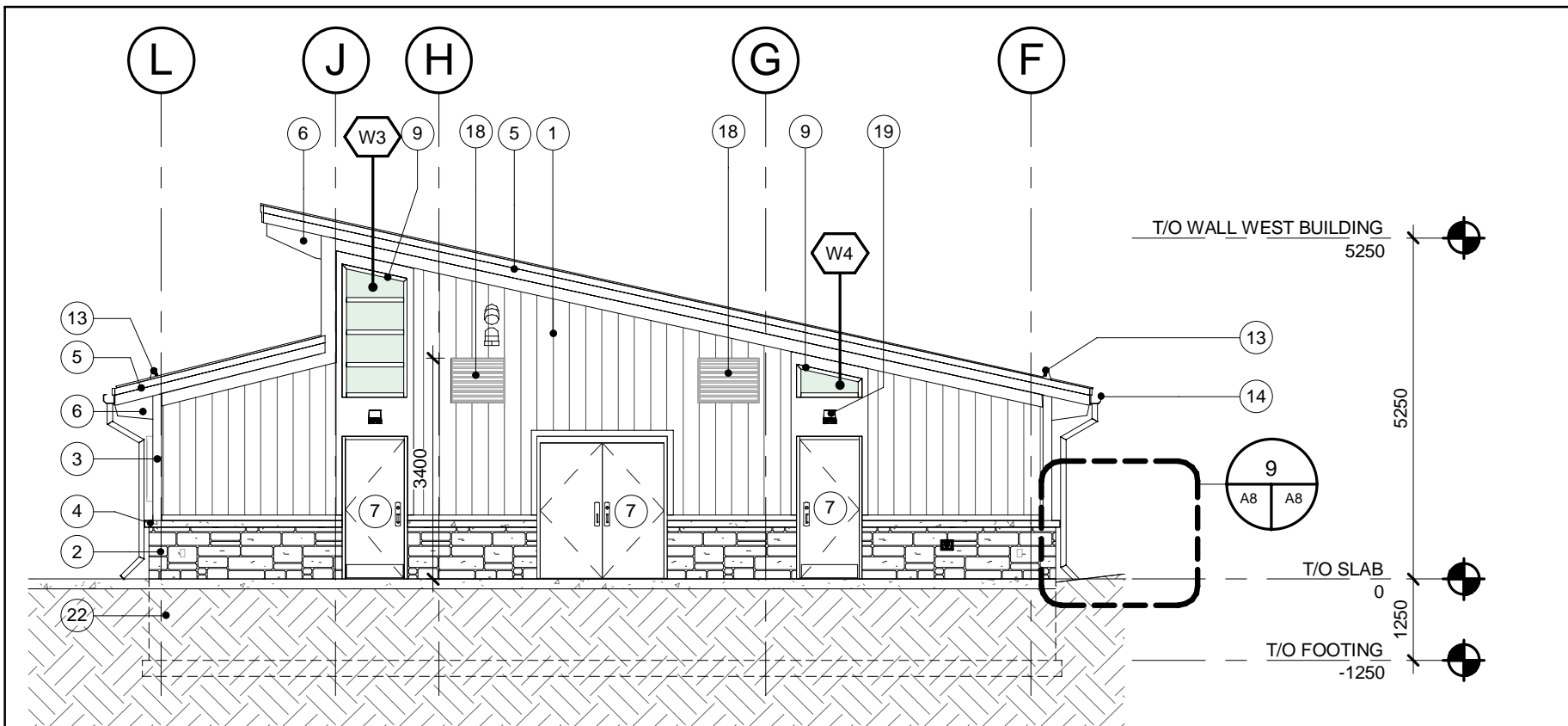
2 WEST ELEVATION - EAST BUILDING  
A3 A8 1:100



4 EAST ELEVATION - EAST BUILDING  
A3 A8 1:100



6 EAST ELEVATION - WEST BUILDING  
A3 A8 1:100



8 WEST ELEVATION - WEST BUILDING  
A3 A8 1:100

#### EXTERIOR ELEVATIONS KEYNOTES:

- 1 PREFINISHED VERTICAL SIDING BY MAIBEC em+  
COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA
- 2 CULTURED STONE VENEER (TO MATCH CAMPGROUND RECEPTION BUILDING)  
COLOUR AND STYLE TO BE APPROVED BY AECOM AND PARKS CANADA
- 3 PREFINISHED MAIBEC WOOD TRIM (100mm WIDE)  
COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA
- 4 100mm PRE-CAST CONCRETE SILL c/w DRIP EDGE  
COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA
- 5 EXPOSED WOOD FASCIA - OILED FINISH  
COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA
- 6 EXPOSED GLULAM TIMBER FRAMING (REFER TO STRUCTURAL)  
SEMI-TRANSPARENT, OILED FINISH, PROVIDE SAMPLES TO BE APPROVED  
REFER TO DOOR SCHEDULE.
- 7 INSULATED EXTERIOR HOLLOW METAL DOOR AND FRAME  
REFER TO DOOR SCHEDULE.
- 8 INSULATED EXTERIOR OVERHEAD DOOR  
REFER TO DOOR SCHEDULE.
- 9 ANODIZED BLACK ALUMINUM INSULATED EXTERIOR WINDOW FRAMES  
c/w INSULATED DOUBLE PANE GLAZING
- 10 ALUMINUM OPERABLE SERVICE WINDOW  
c/w INSULATED DOUBLE PANE GLAZING AND STAINLESS STEEL COUNTER
- 11 STANDING SEAM METAL ROOFING  
COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA
- 12 PRE-FINISHED METAL FLASHING  
COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA
- 13 BAR TYPE SNOW GUARD  
COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA
- 14 PRE-FINISHED METAL GUTTER AND DOWNSPOUT, DENT AND VANDAL RESISTANT  
COLOUR TO MATCH FASCIA, c/w LEAF GUARD.
- 15 EXTERIOR WALL MOUNTED  
WATER BOTTLE FILL STATION
- 16 BARRIER FREE POWER DOOR OPERATOR - PUSH BUTTON  
REFER TO SPECIFICATIONS
- 17 WALL MOUNTED ELECTRICAL SERVICE METER  
REFER TO ELECTRICAL DRAWINGS
- 18 PRE-FINISHED METAL EXHAUST COVER / LOUVRE  
REFER TO MECHANICAL
- 19 EXTERIOR WALL MOUNTED LIGHT FIXTURES  
REFER TO ELECTRICAL DRAWINGS
- 20 EXTERIOR DISPLAY CABINETS  
WOOD AND GLASS CONSTRUCTION
- 21 CUSTOM EXTERIOR SOLID WOOD SLIDING TRACK DOOR (76mm THICK)  
C/W HEAVY DUTY STAINLESS STEEL TRACK HARDWARE & ACCESSORIES
- 22 CONCRETE FOUNDATION

DRAWING NO. DRAWING NAME

#### REFERENCE DRAWINGS

0	2018- 06- 19	ISSUED FOR TENDER	JA	RB
NO.	DATE	DESCRIPTION	Drawn By/ Dessine par	Approved/ Approuve

#### REVISIONS

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

LINEAR DIMENSIONS IN MILLIMETERS Dimensions lineaires en millimetres

Parcs Canada Parks Canada



Canada

PARKS CANADA

Type of Record /  
Type d'enregistrement

Project title / Titre du projet  
**CYPRUS LAKE  
CAMPGROUND - THE  
HUB AMENITY BUILDING**

Drawing title / Titre du Dessin  
**BUILDING ELEVATIONS II**

Plot Scale / Echelle

As indicated

Drawn by/ Dessin par  
JA Date  
2017- 10- 05

Field Recording by/  
Releve- Terrain par Date

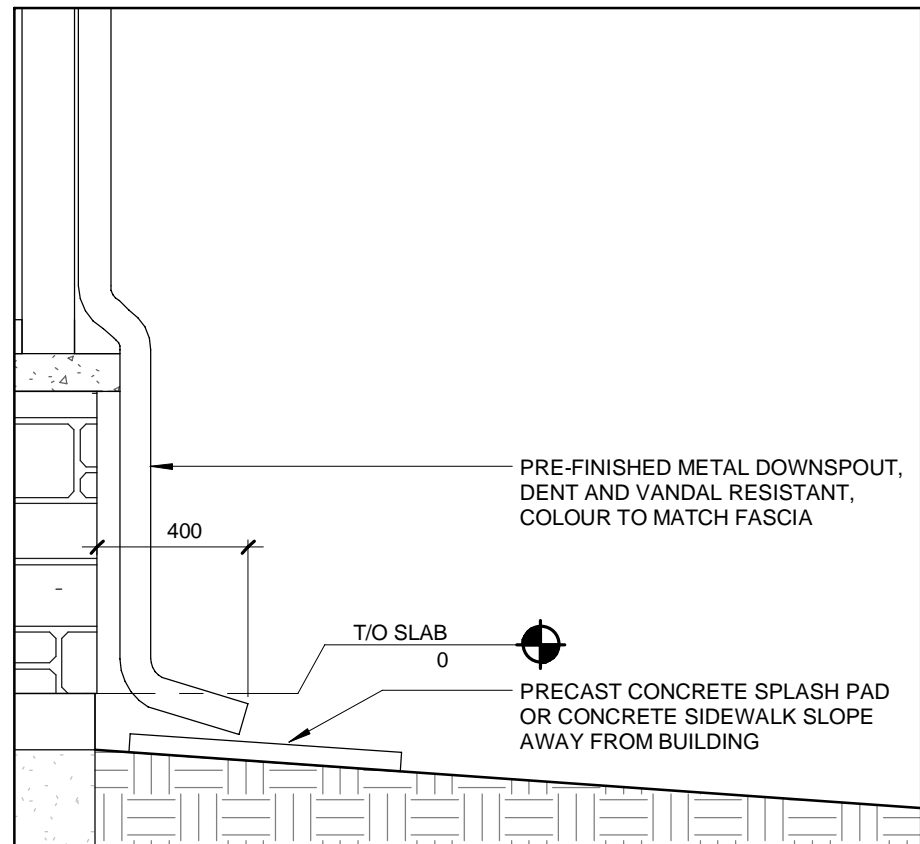
Approved by/ Approuve par  
RT Date  
2017- 04- 06

Checked by/ Verifie par  
RT Date  
2017- 04- 06

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60554372 Feuille No.

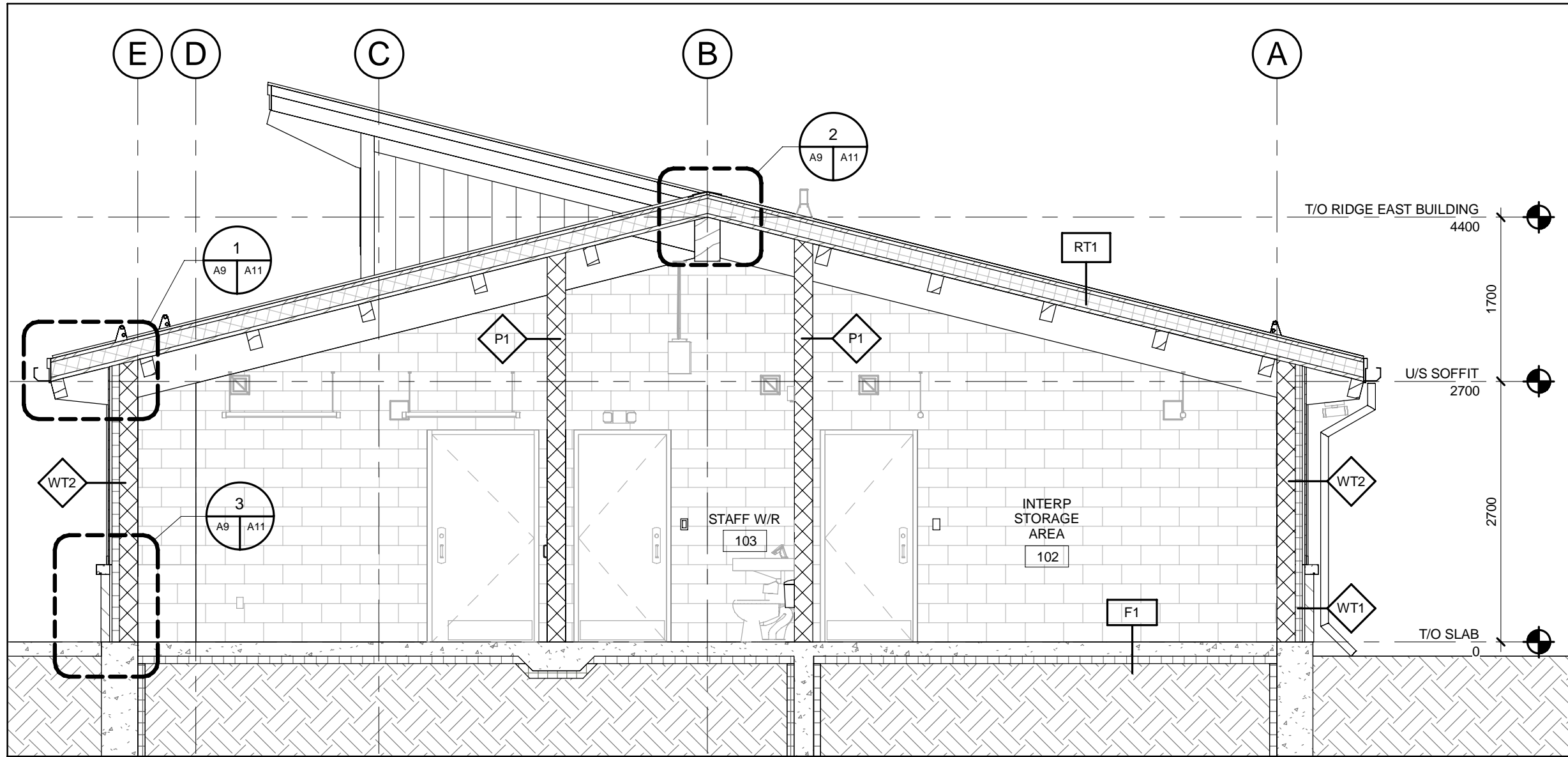
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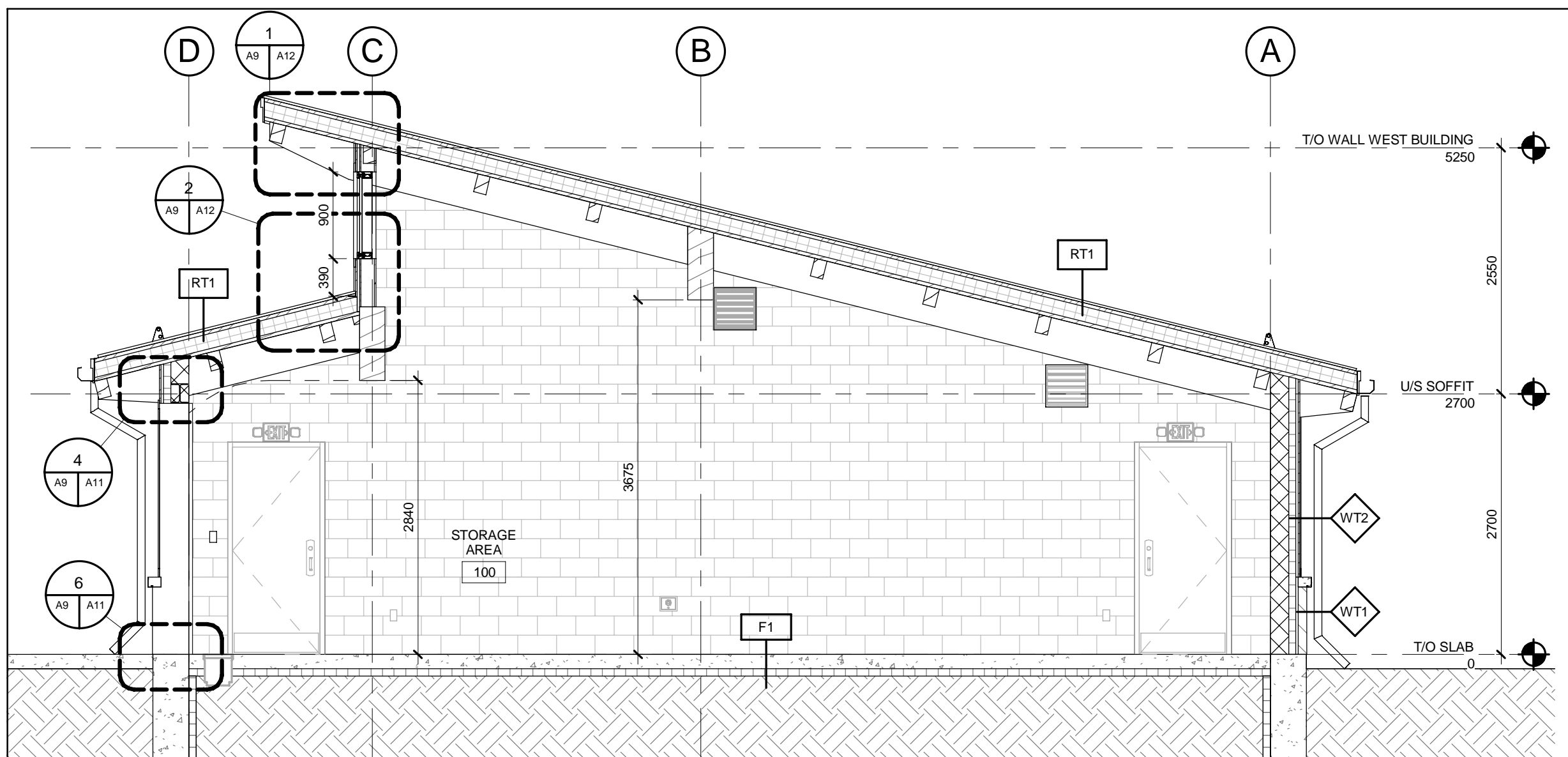


9 DOWNSPOUT BASE DETAIL  
A3 A8 1:20

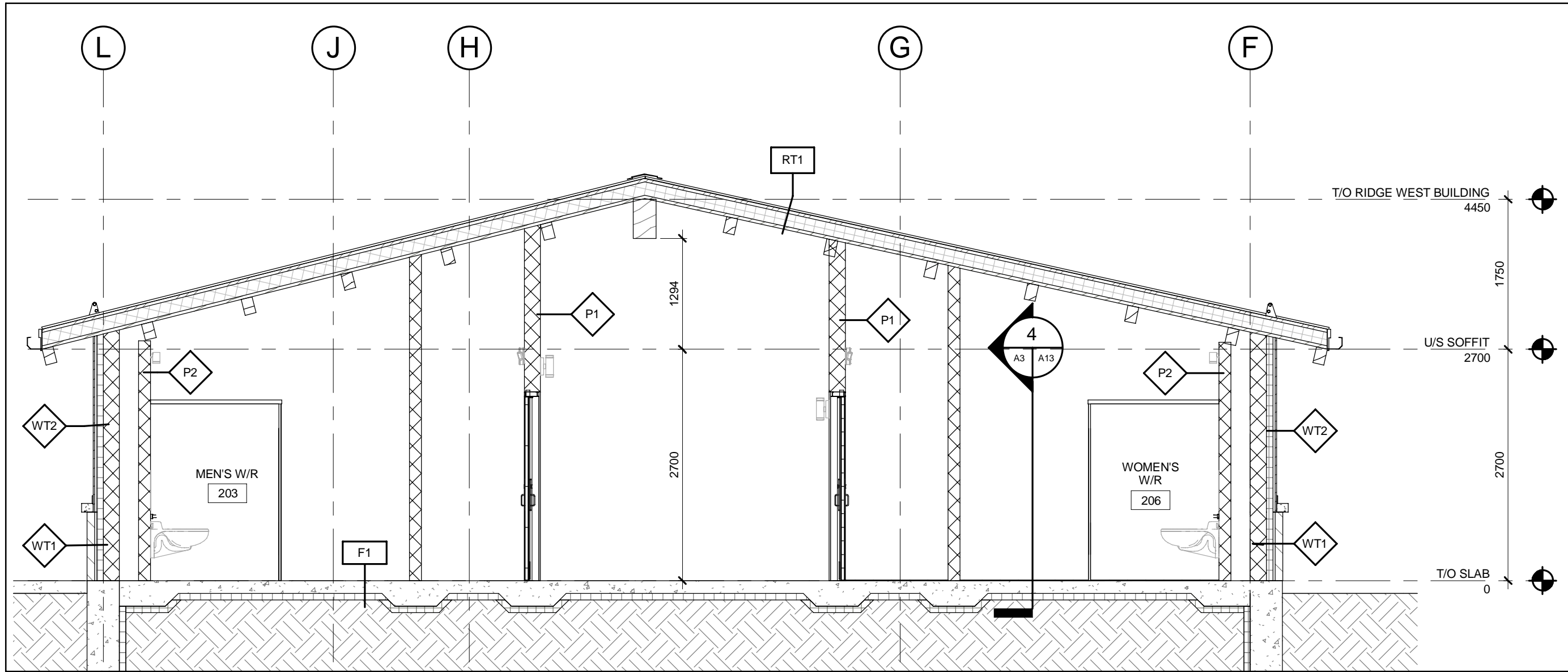




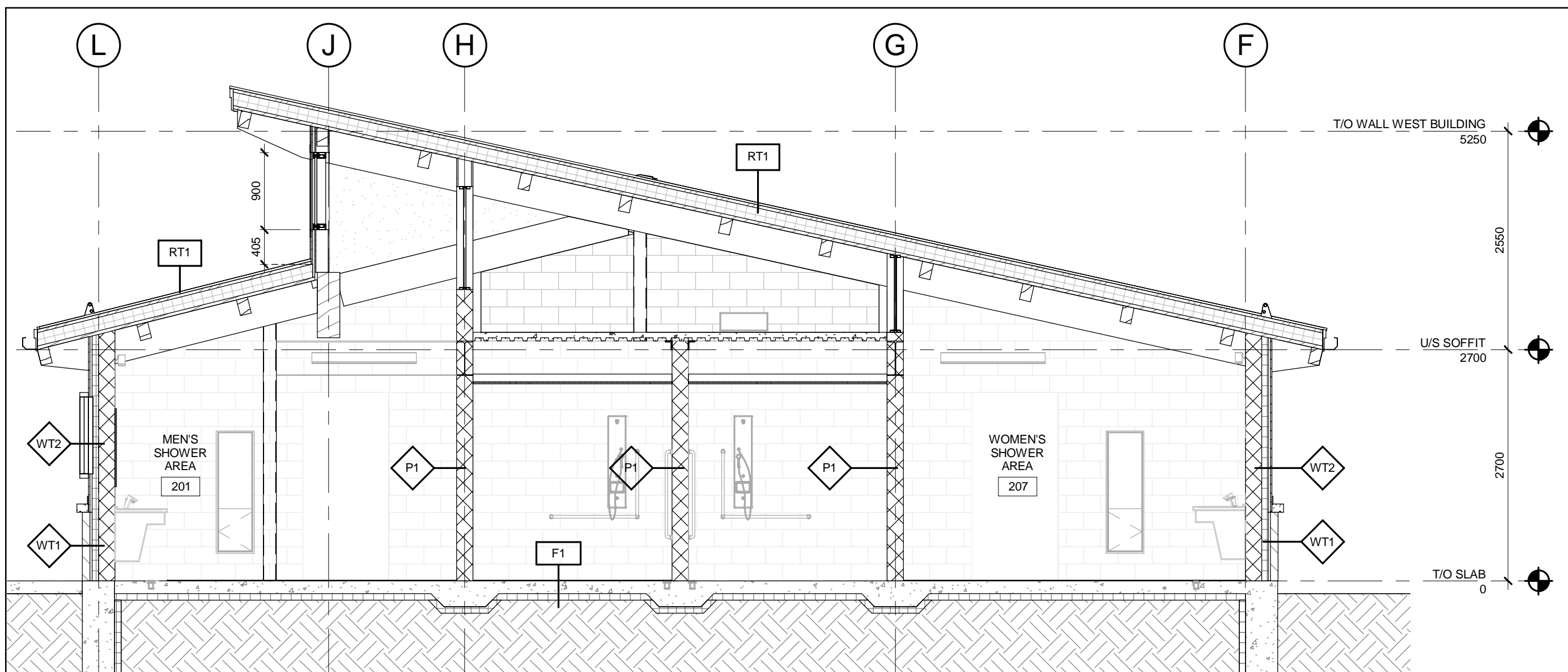
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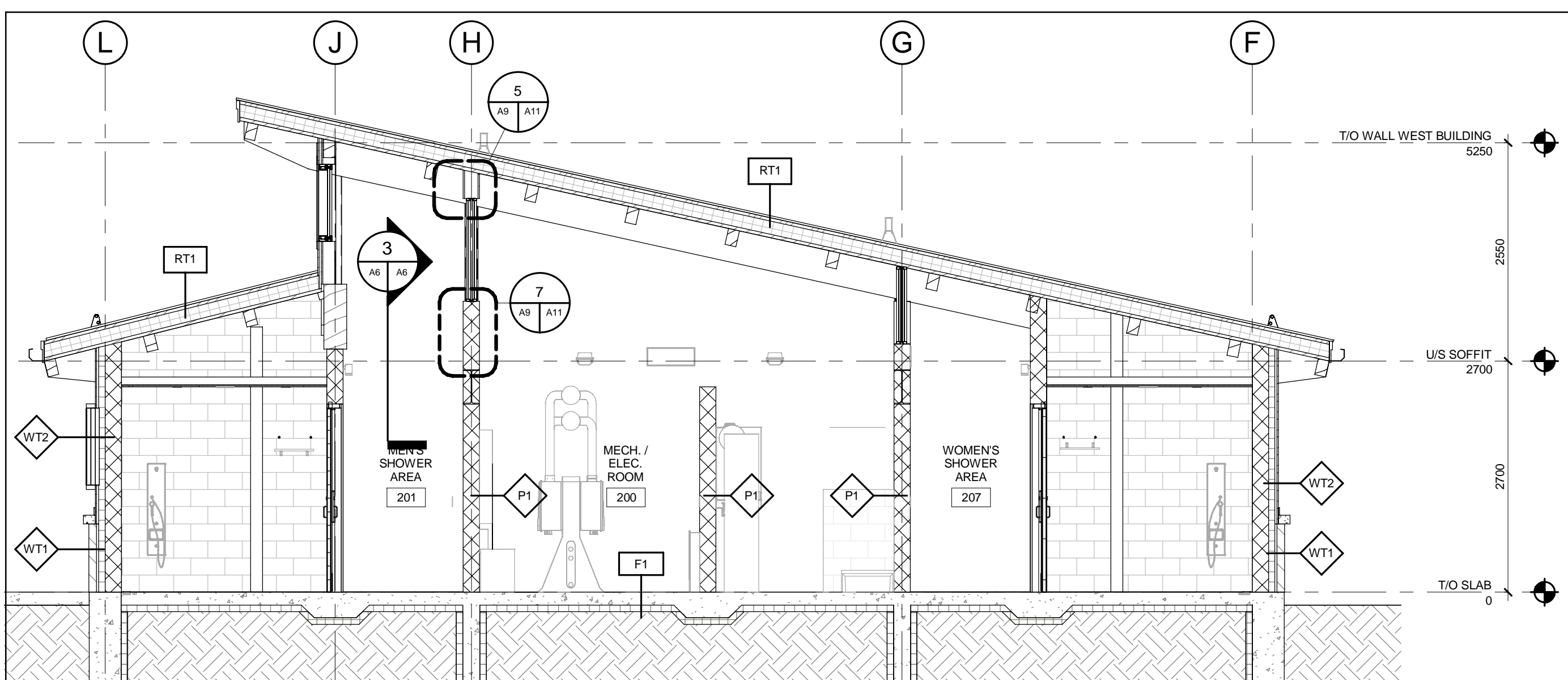
3 BUILDING SECTION 3



2 BUILDING SECTION 2



4 BUILDING SECTION 4



5 BUILDING SECTION 5

DRAWING NO. DRAWING NAME

REFERENCE DRAWINGS

0	2018- 06- 19	ISSUED FOR TENDER	JA	RB
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REVISIONS

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B	B Sheet Number	B Sur feuille Numero

LINEAR DIMENSIONS IN MILLIMETERS Dimensions lineaires en millimetres

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PARKS CANADA

Type of Record /  
Type d'enregistrement

Project title / Titre du projet  
**CYPRUS LAKE  
CAMPGROUND - THE  
HUB AMENITY BUILDING**

Drawing title / Titre du Dessin  
**BUILDING SECTIONS**

Plot Scale / Echelle  
1 : 50

Drawn by/ Dessin par  
JA Date  
2017- 10- 05

Field Recording by/  
Releve- Temoin par Date

Approved by/ Approuve par  
RT Date  
2017- 04- 06

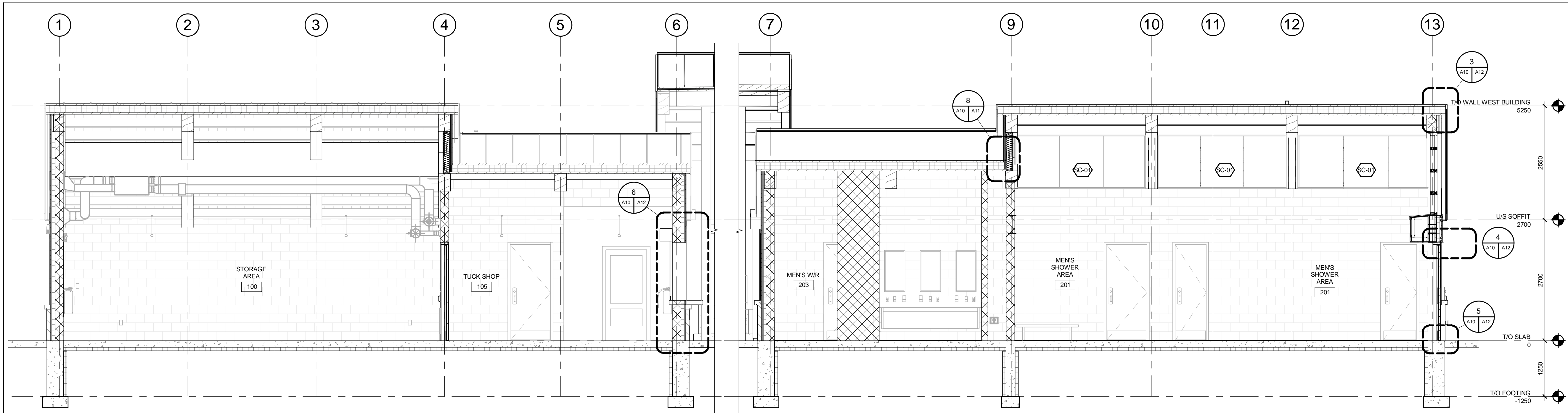
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2017- 04- 06

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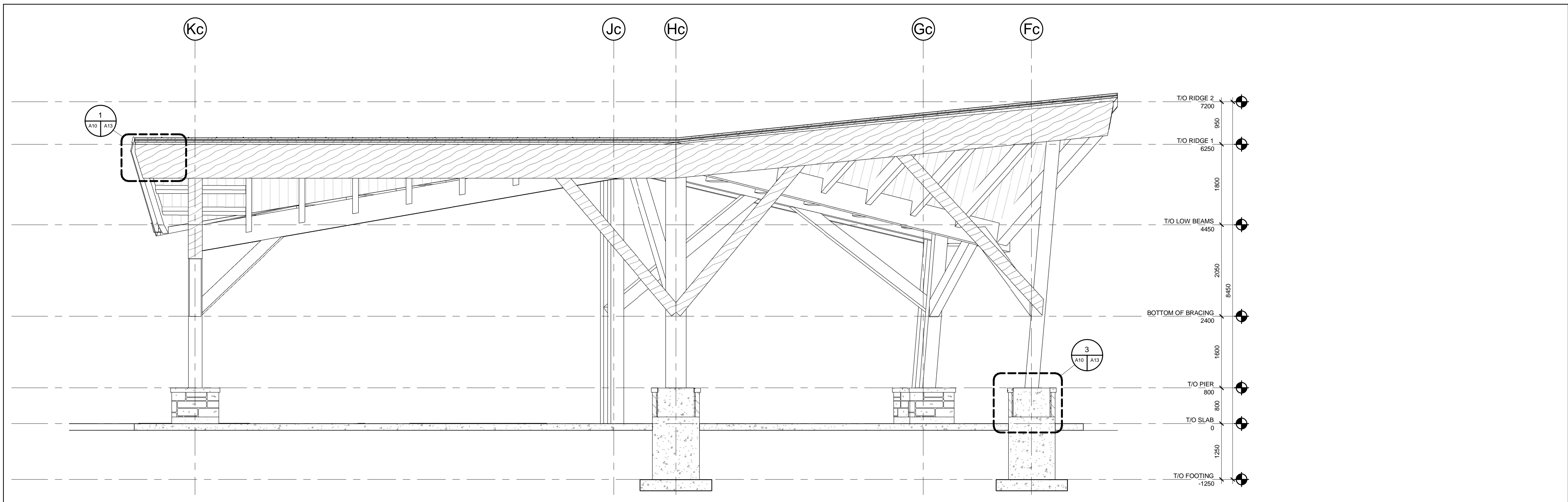
Drawing Re No./No. du Dessin

A9





1 BUILDING SECTION 6  
AS A10 1:50



3 CANOPY SECTION  
AS A10 1:50

DRAWING NO. DRAWING NAME

REFERENCE DRAWINGS

NO.	DATE	DESCRIPTION	Drawn By/ Dessine par	Approved/ Approuve
0	2018- 06- 19	ISSUED FOR TENDER	JA	RB

REVISIONS

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



Canada

PARKS CANADA

Type of Record /  
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Project title / Titre du projet  
**CYPRUS LAKE  
CAMPGROUND - THE  
HUB AMENITY BUILDING**

Drawing title / Titre du Dessin  
**BUILDING SECTIONS**

Plot Scale / Echelle  
1 : 50

Drawn by/ Dessin par  
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2017- 10- 05

Field Recording by/  
Releve- Temoin par Date

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2017- 04- 06

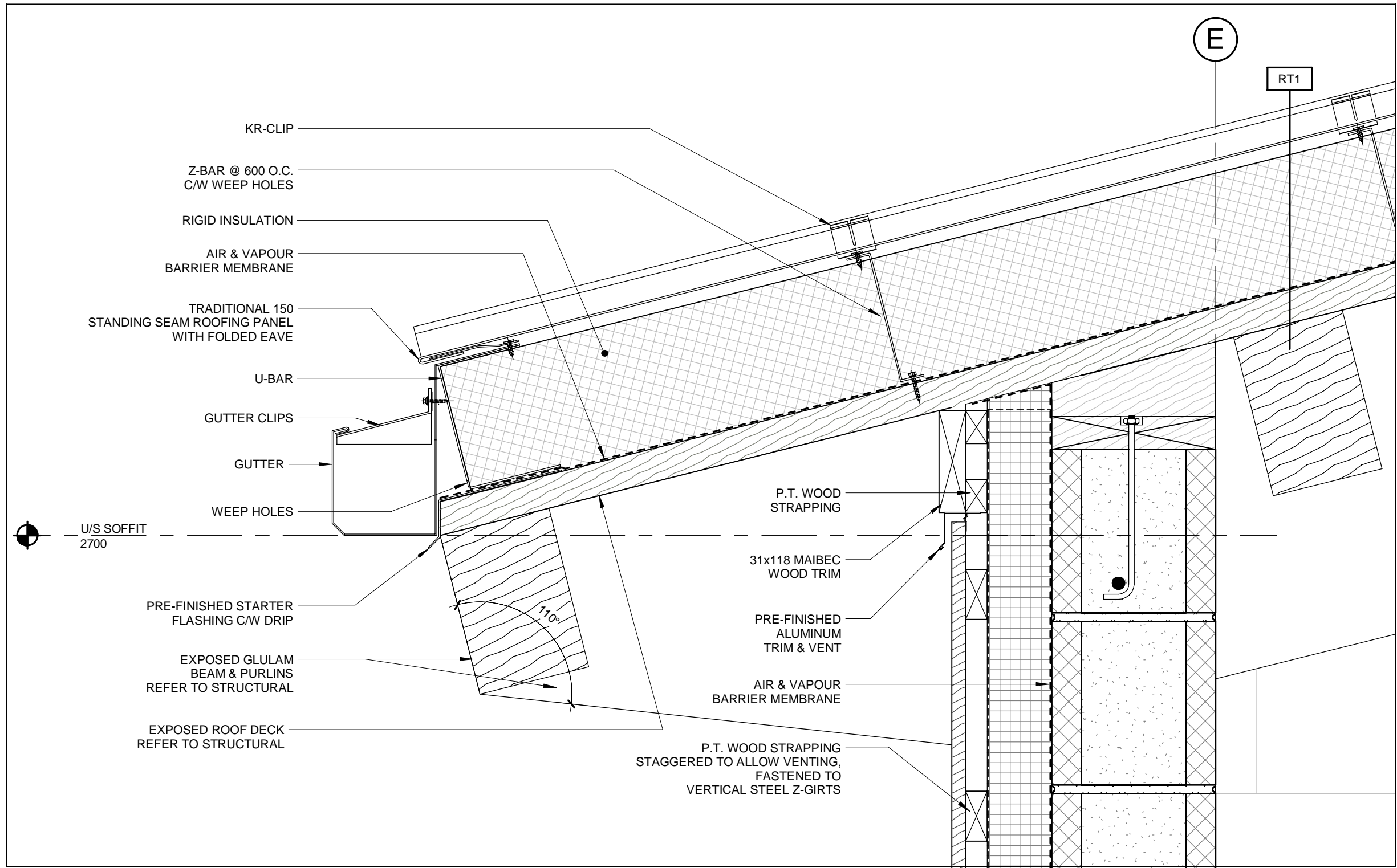
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2017- 04- 06

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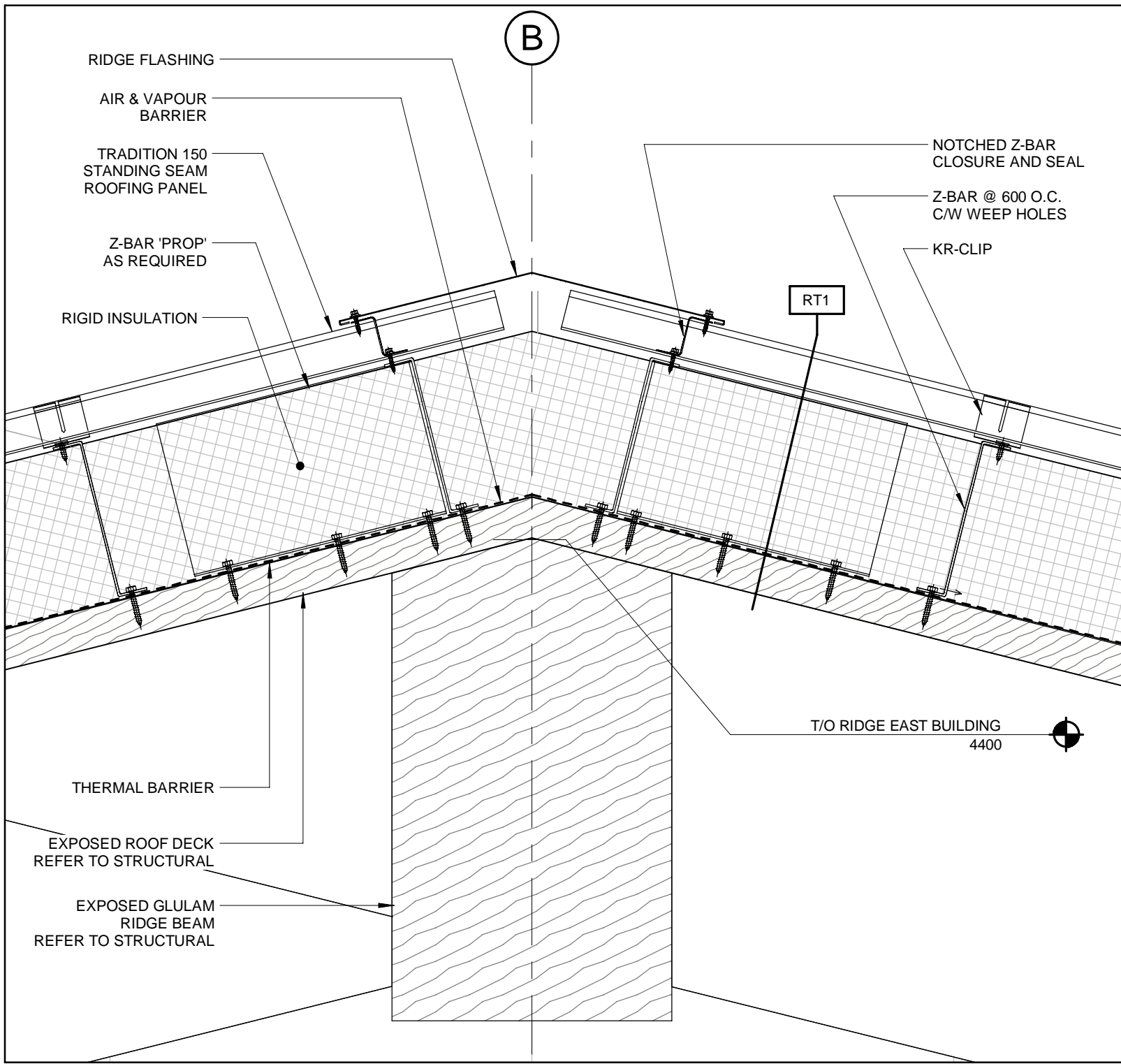
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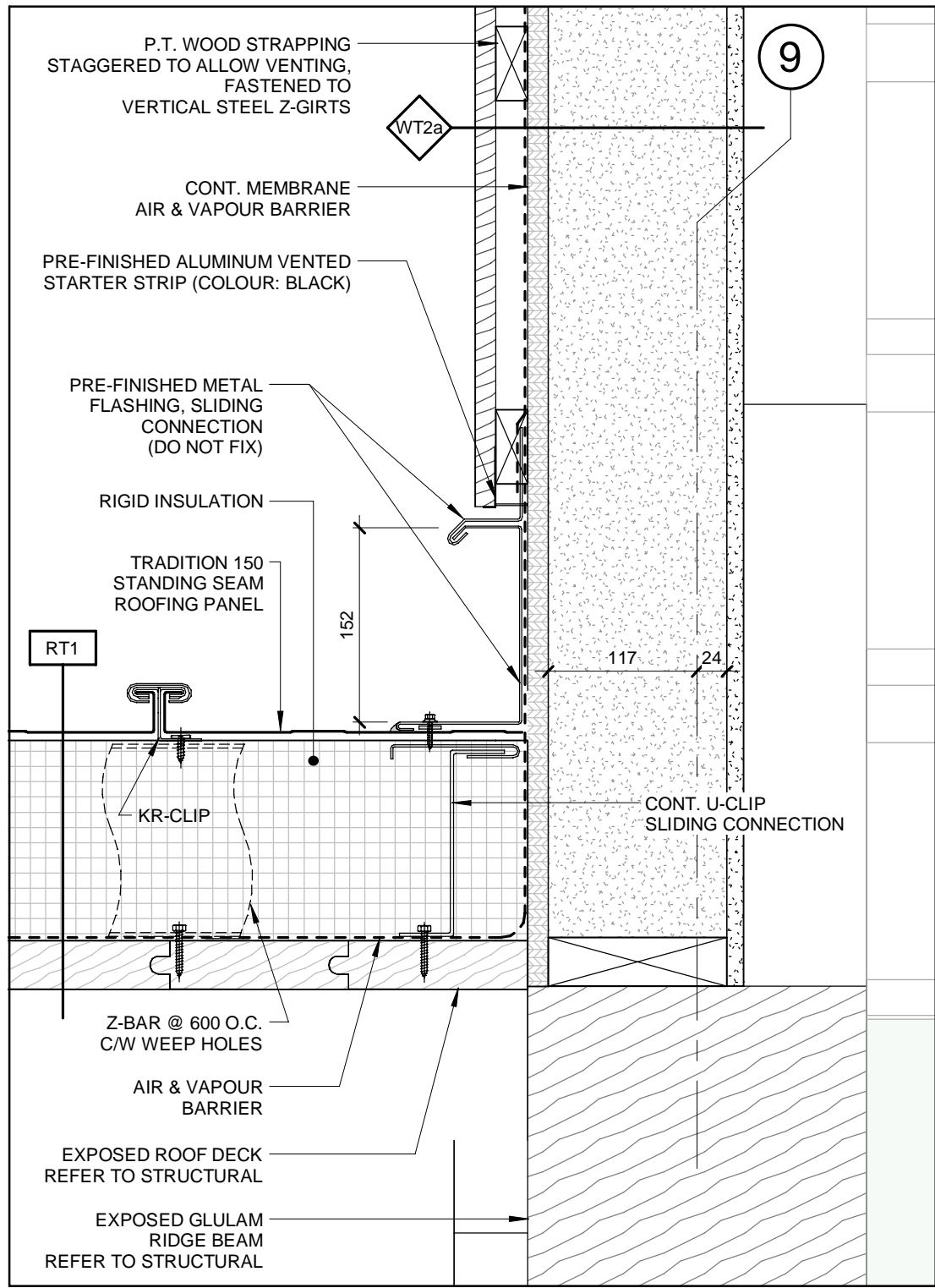




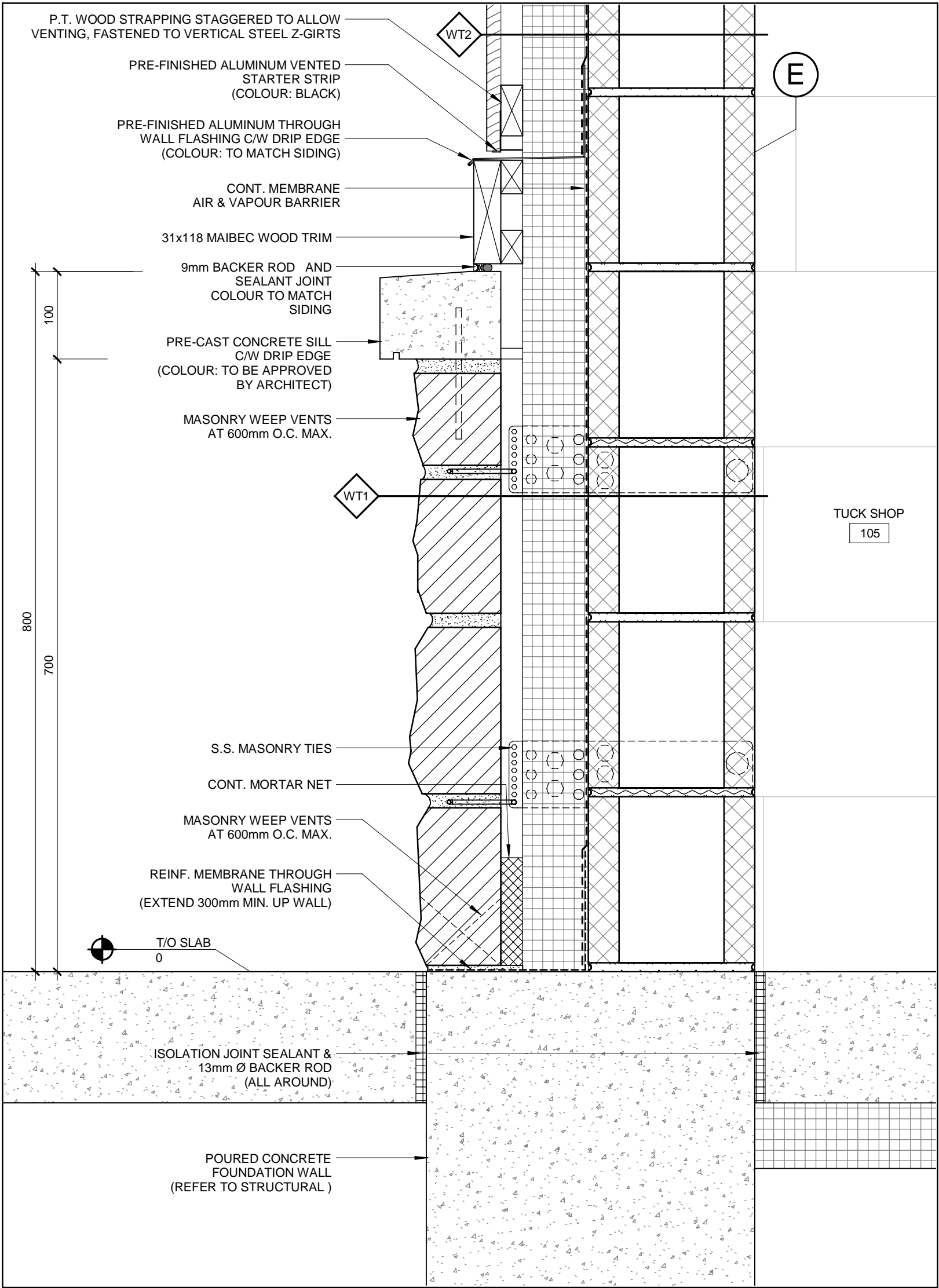
1 SECTION DETAIL - ROOF EAVE  
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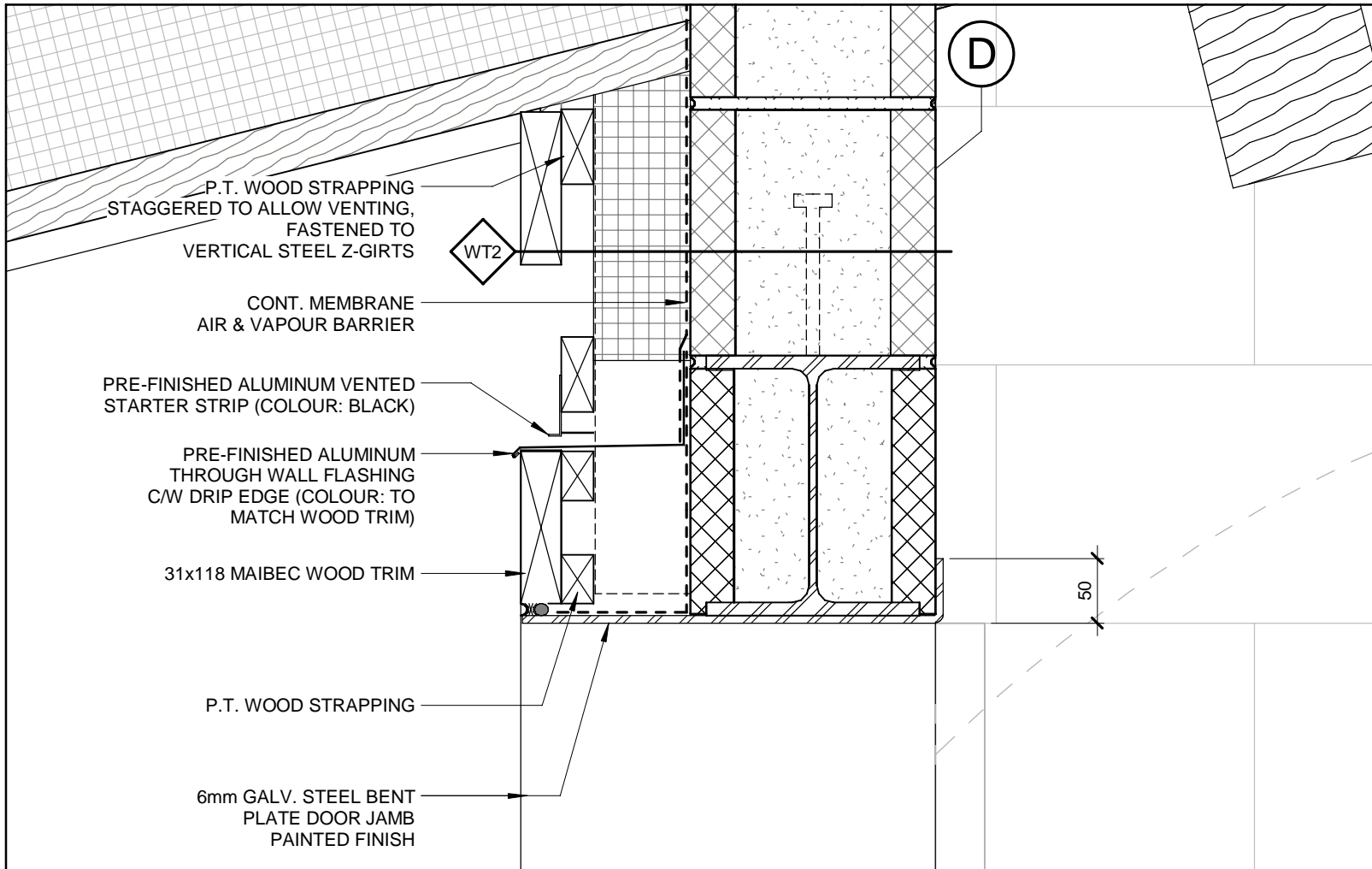
2 SECTION DETAIL - RIDGE DETAIL  
A9 A11 1:5



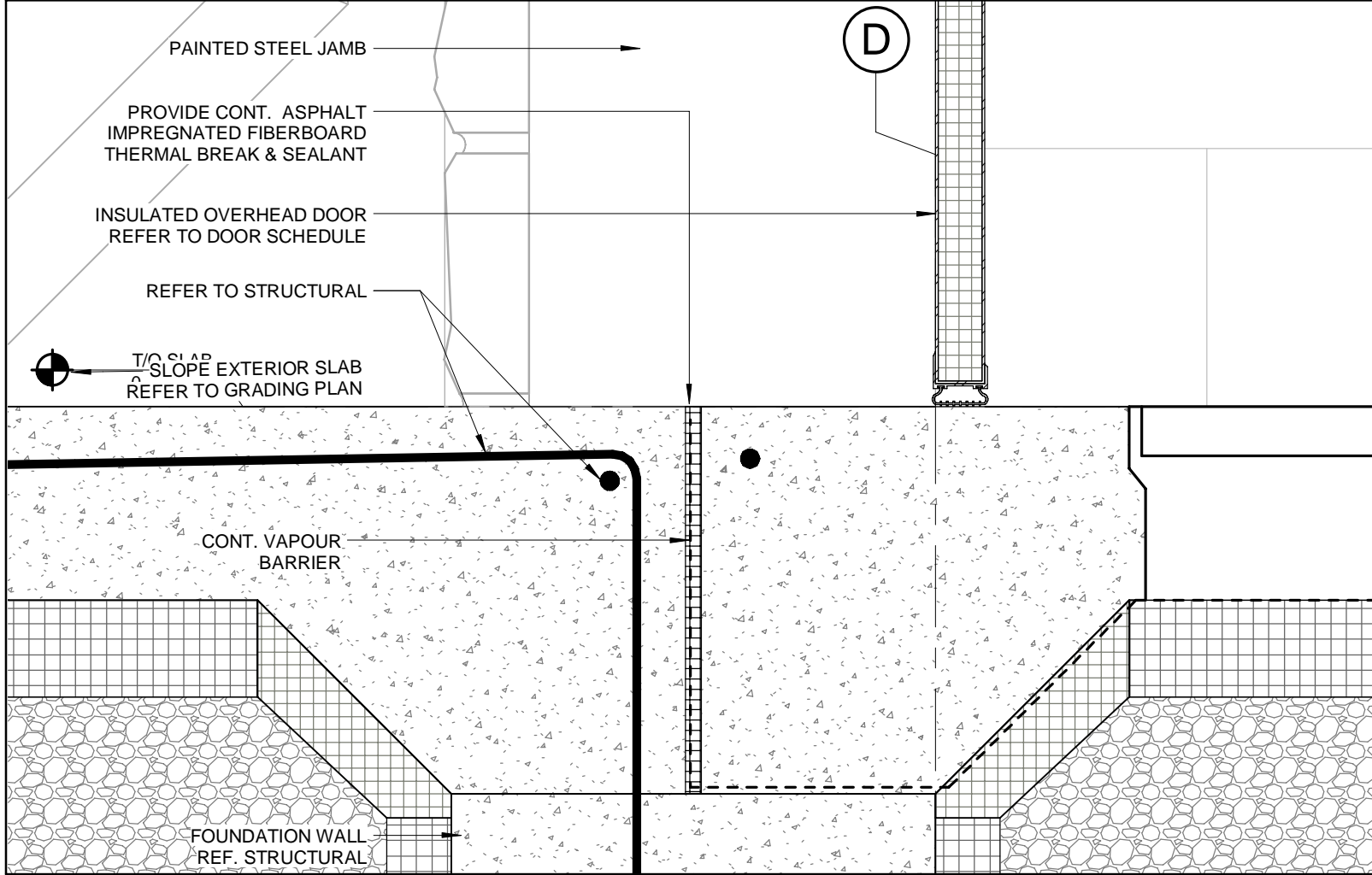
8 SECTION DETAIL - WALL/ROOF INTERSECTION  
A10 A11 1:5



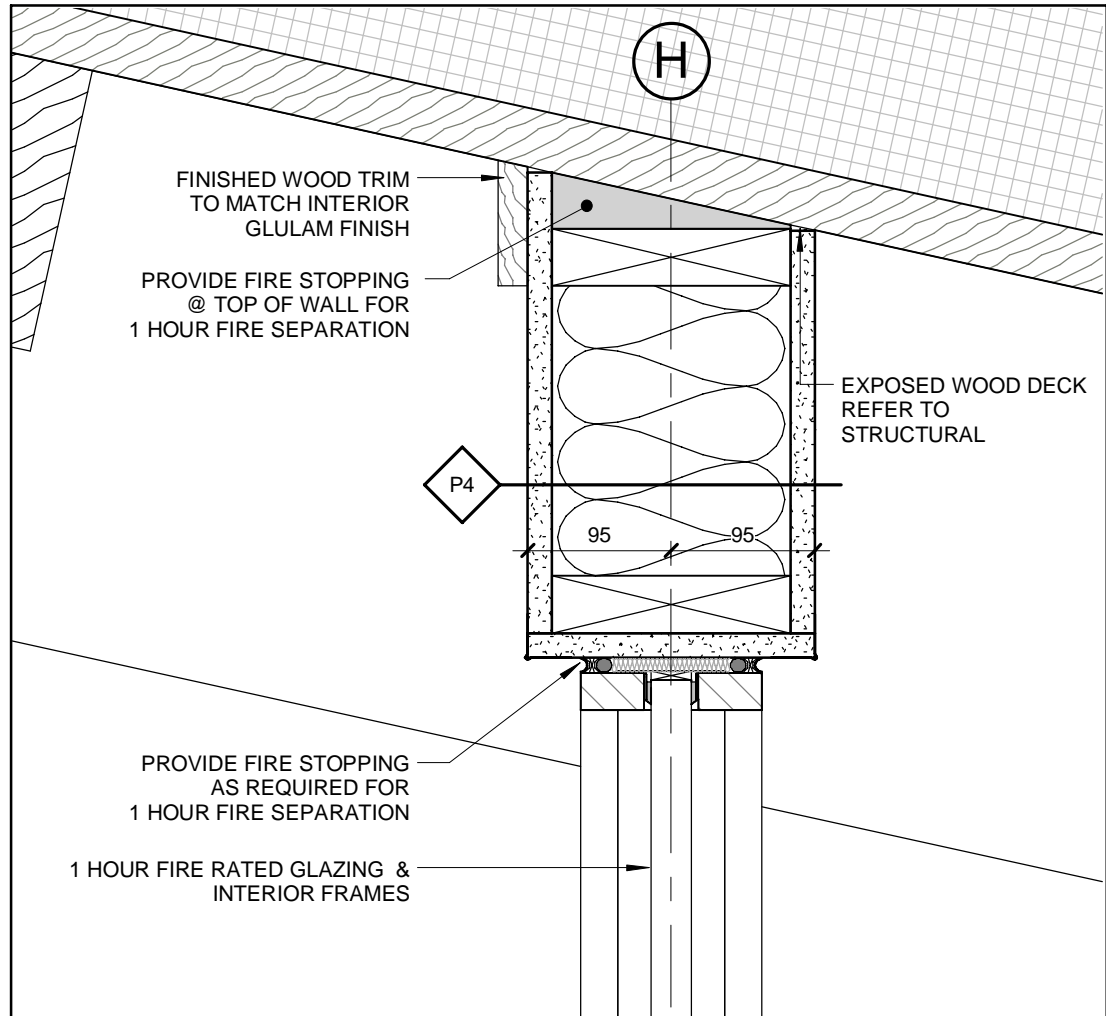
3 SECTION DETAIL - STONE BASE  
A9 A11 1:5



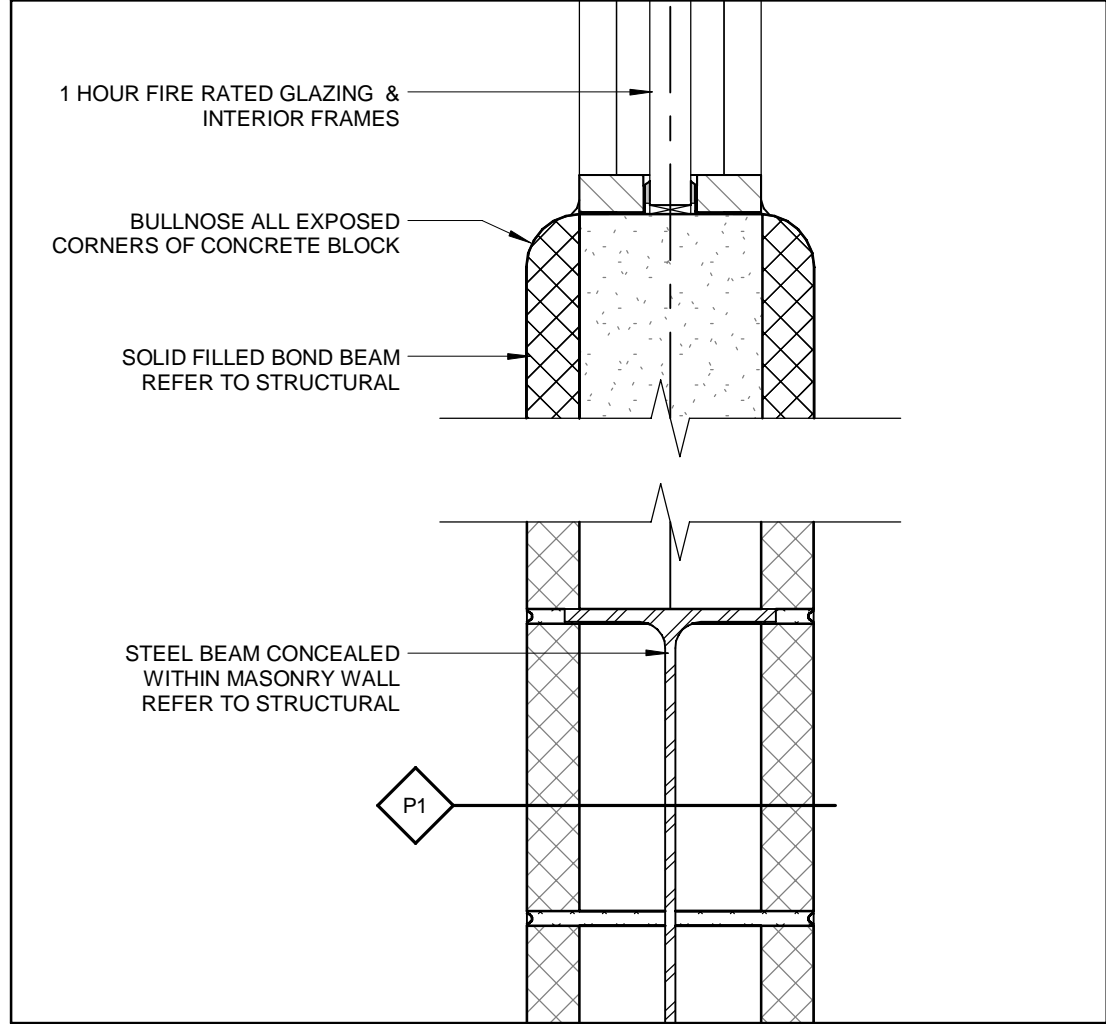
4 SECTION DETAIL - HEAD OF OVERHEAD DOOR  
A9 A11 1:5



6 SECTION DETAIL - THRESHOLD OF OVERHEAD DOOR  
A9 A11 1:5



5 SECTION DETAIL - INTERIOR WINDOW HEAD  
A9 A11 1:5



7 SECTION DETAIL - INTERIOR WINDOW SILL  
A9 A11 1:5

DRAWING NO. DRAWING NAME

REFERENCE DRAWINGS

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REVISIONS

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LINEAR DIMENSIONS IN MILLIMETERS Dimensions lineaires en millimetres

Parcs Canada Parks Canada

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**SECTION DETAILS**

Plot Scale / Echelle  
1 : 5

Drawn by/ Dessin par  
JA Date  
2017- 10- 05

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Releve- Terrain par Date

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RT Date  
2017- 04- 06

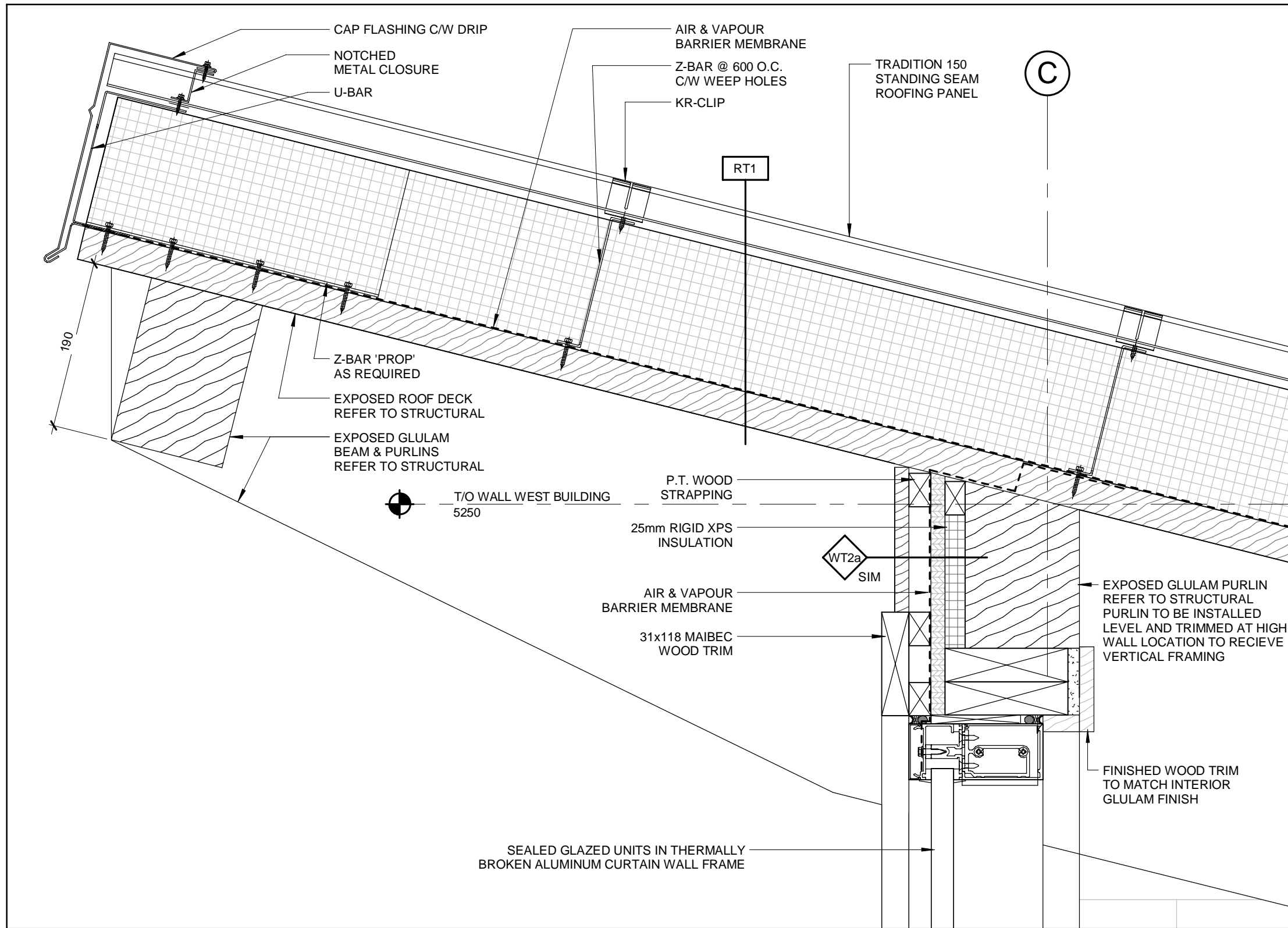
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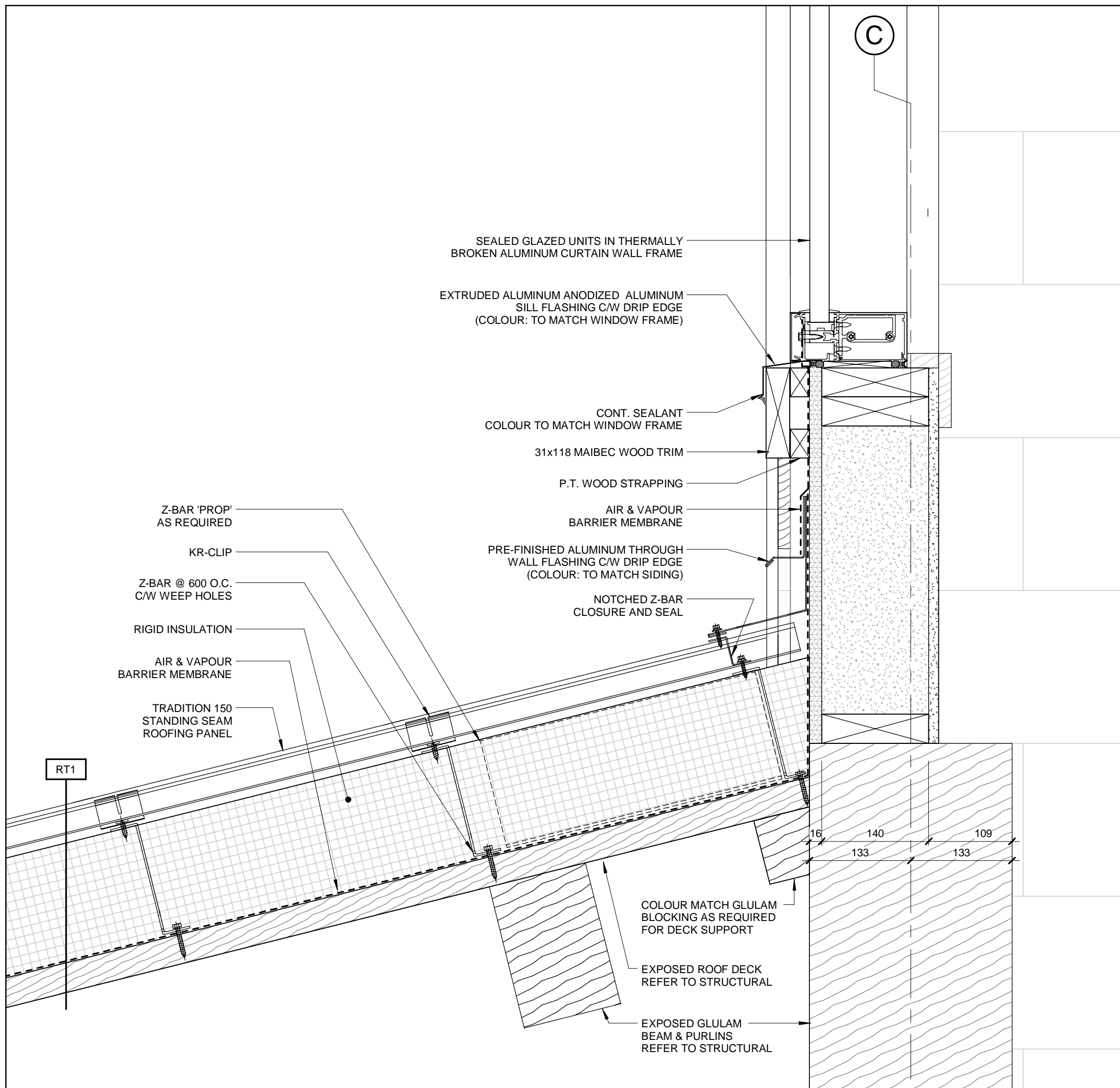
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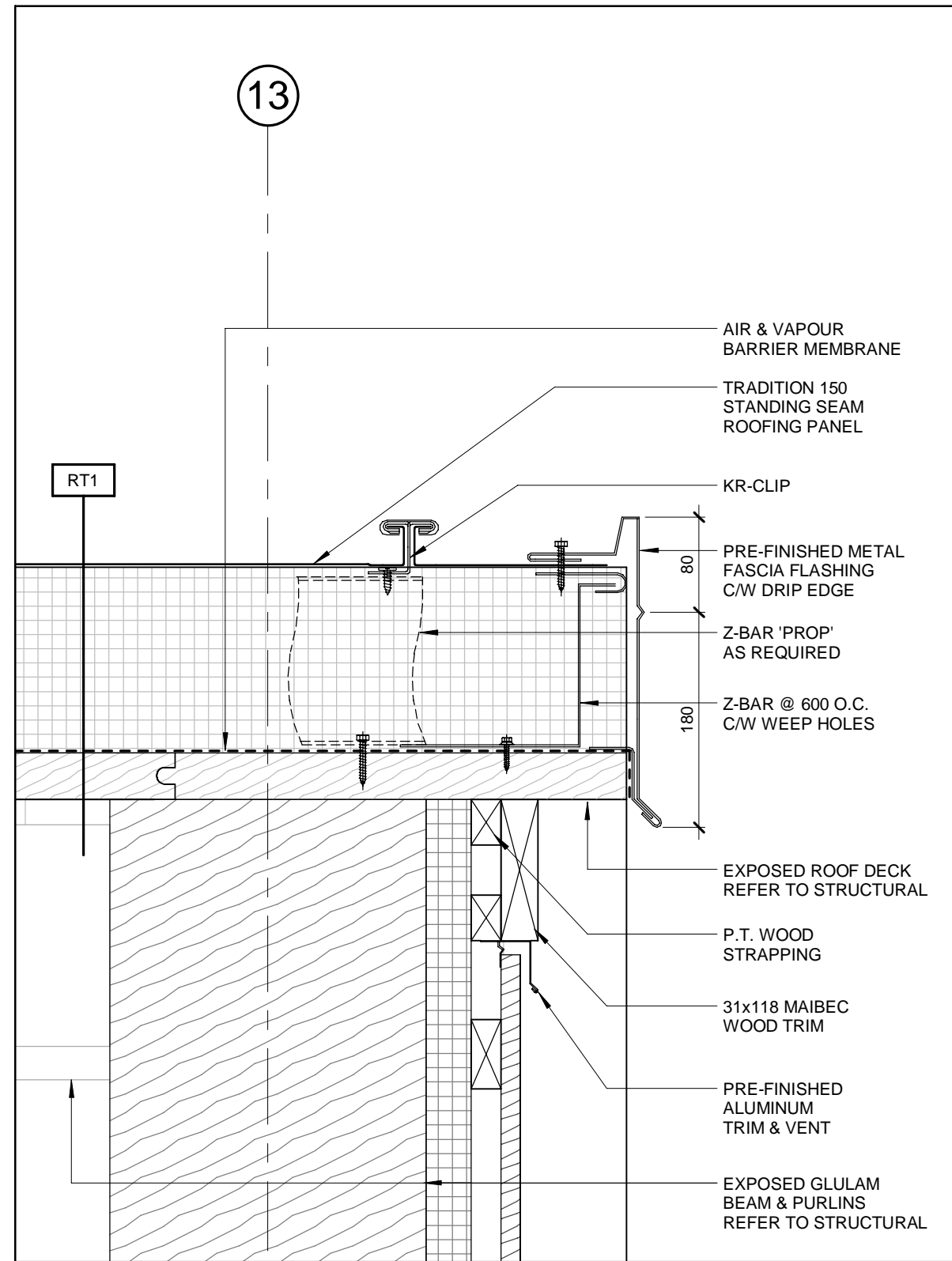




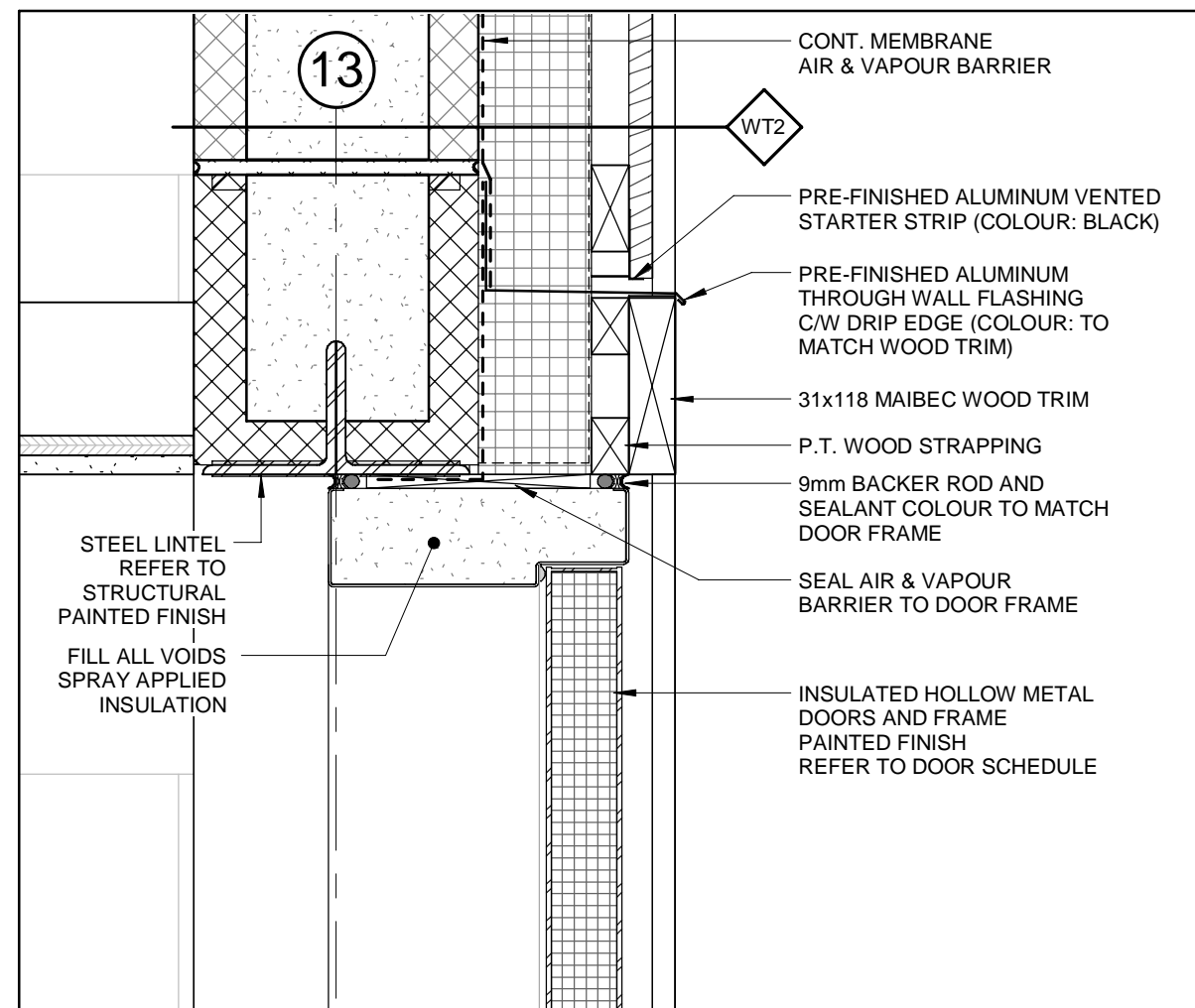
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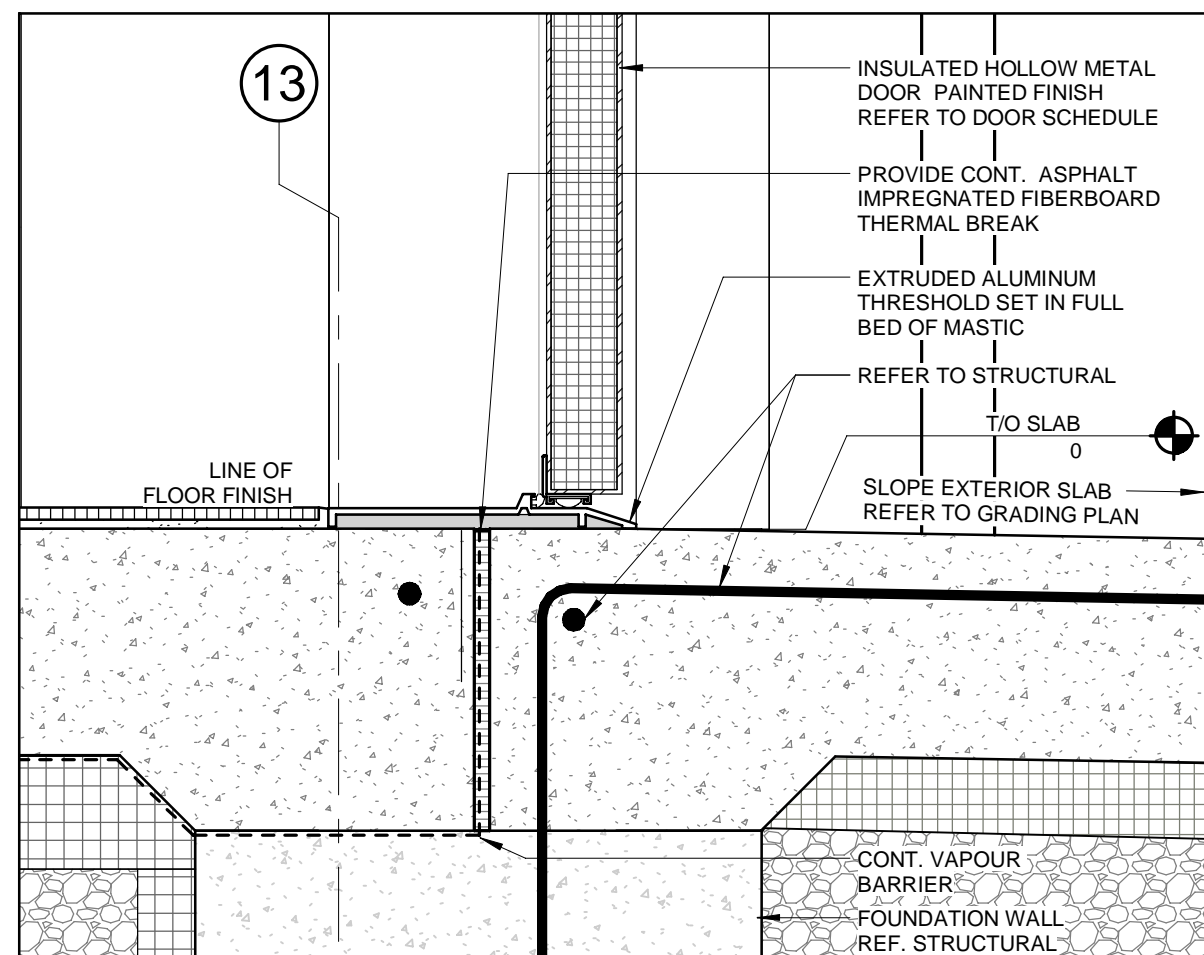
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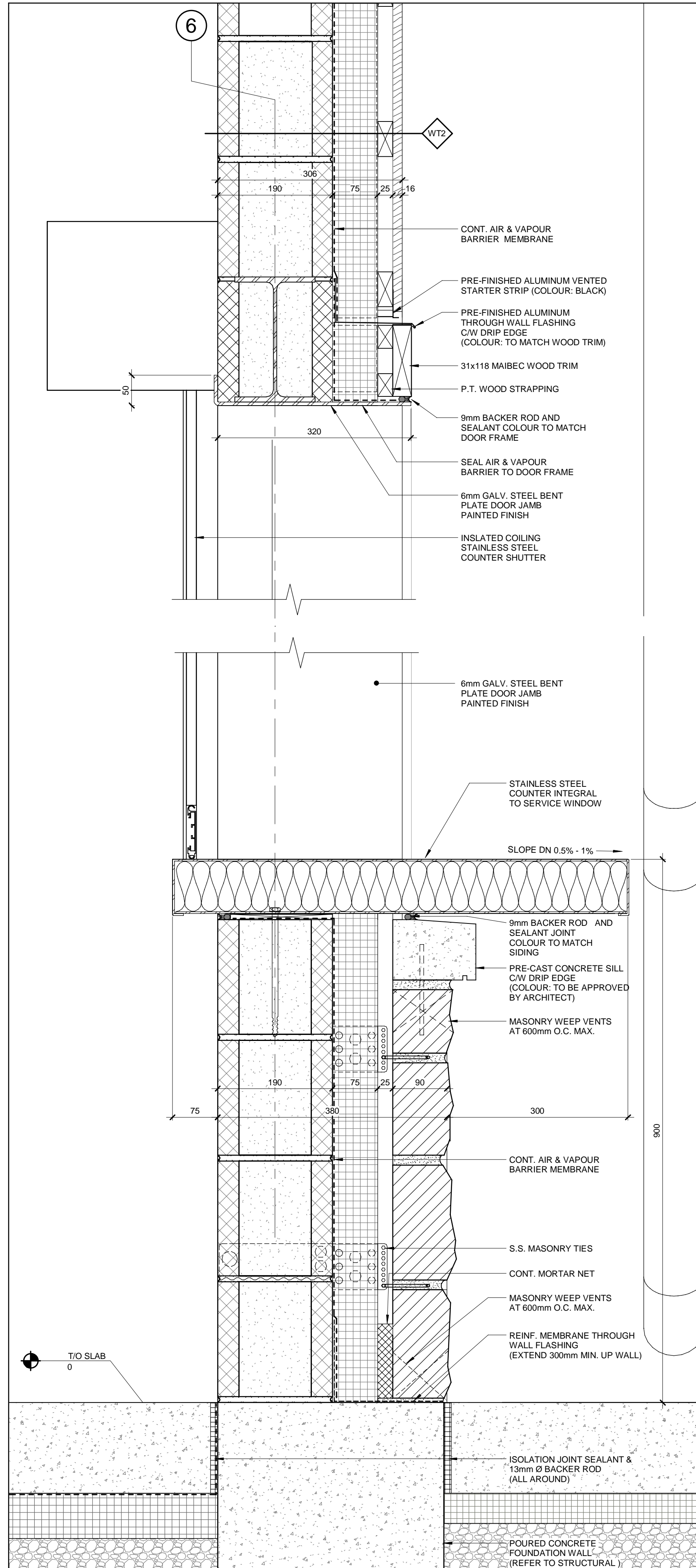
3 SECTION DETAIL - ROOF OVERHANG  
1:5



4 SECTION DETAIL - DOOR HEAD  
1:5



5 SECTION DETAIL - DOOR THRESHOLD  
1:5



6 SECTION DETAIL - TUCKSHOP COUNTER  
1:5

DRAWING NO. DRAWING NAME

REFERENCE DRAWINGS

0	2018- 06- 19	ISSUED FOR TENDER	JA	RB
NO.	DATE	DESCRIPTION	Drawn By/ Dessine par	Approved/ Approuve

REVISIONS

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B	B Sheet Number	B Sur feuille Numero

LINEAR DIMENSIONS IN MILLIMETERS Dimensions lineaires en millimetres



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PARKS CANADA

Type of Record /  
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Project title / Titre du projet  
**CYPRUS LAKE  
CAMPGROUND - THE  
HUB AMENITY BUILDING**

Drawing title / Titre du Dessin  
**SECTION DETAILS**

Plot Scale / Echelle  
1 : 5

Drawn by/ Dessin par  
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2017- 10- 05

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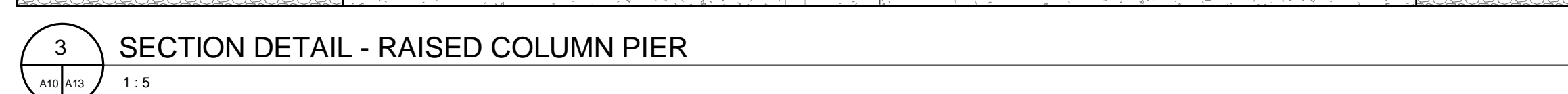
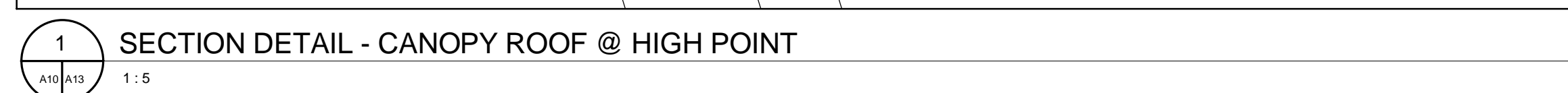
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2017- 04- 06

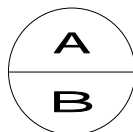


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Drawing Re No./No. du Dessin

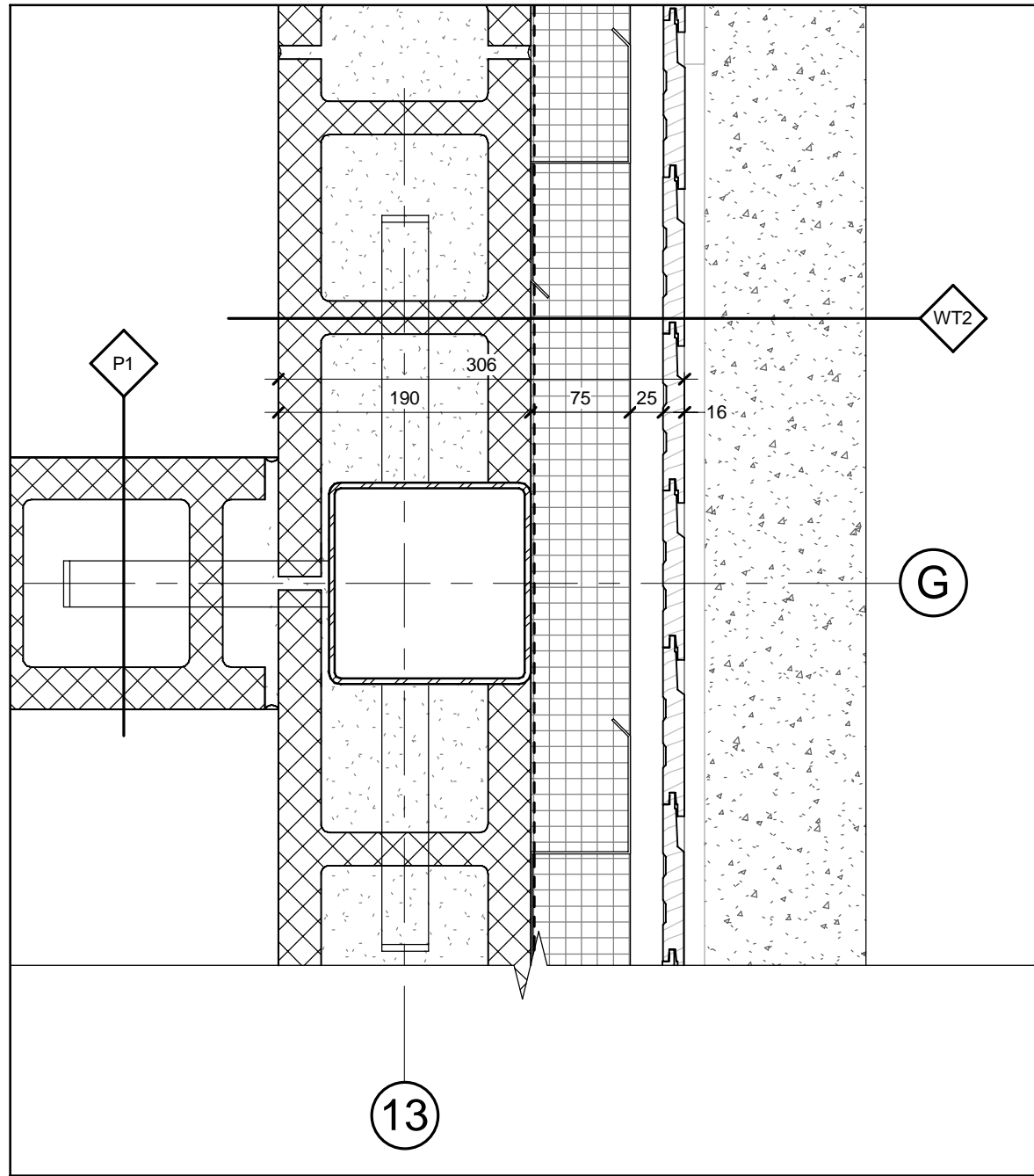
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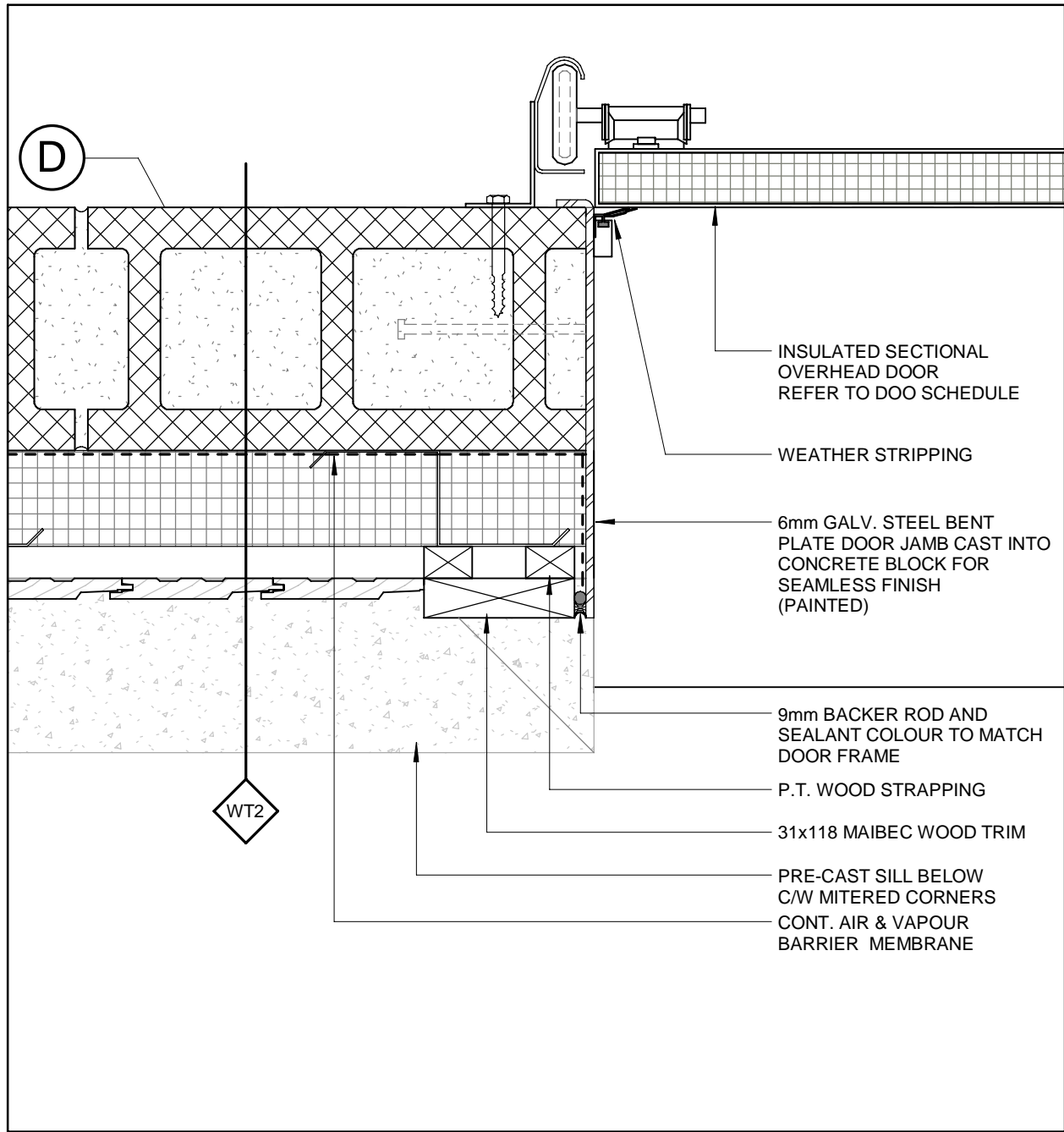


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Canada									
PARKS CANADA									
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Project title / Titre du projet CYPRUS LAKE CAMPGROUND - THE HUB AMENITY BUILDING									
Drawing title / Titre du Dessin SECTION DETAILS									
Plot Scale / Echelle As Indicated									
Drawn by/ Dessin par JA						Date 2017 - 10- 05			
Field Recording by/ Releve Temoin par						Date			
Approved by/ Approuve par RT						Date 2018 - 06- 01			
Checked by/ Verife par RT						Date 2018 - 06- 01			
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Drawing Re No./No. du Dessin						A13			

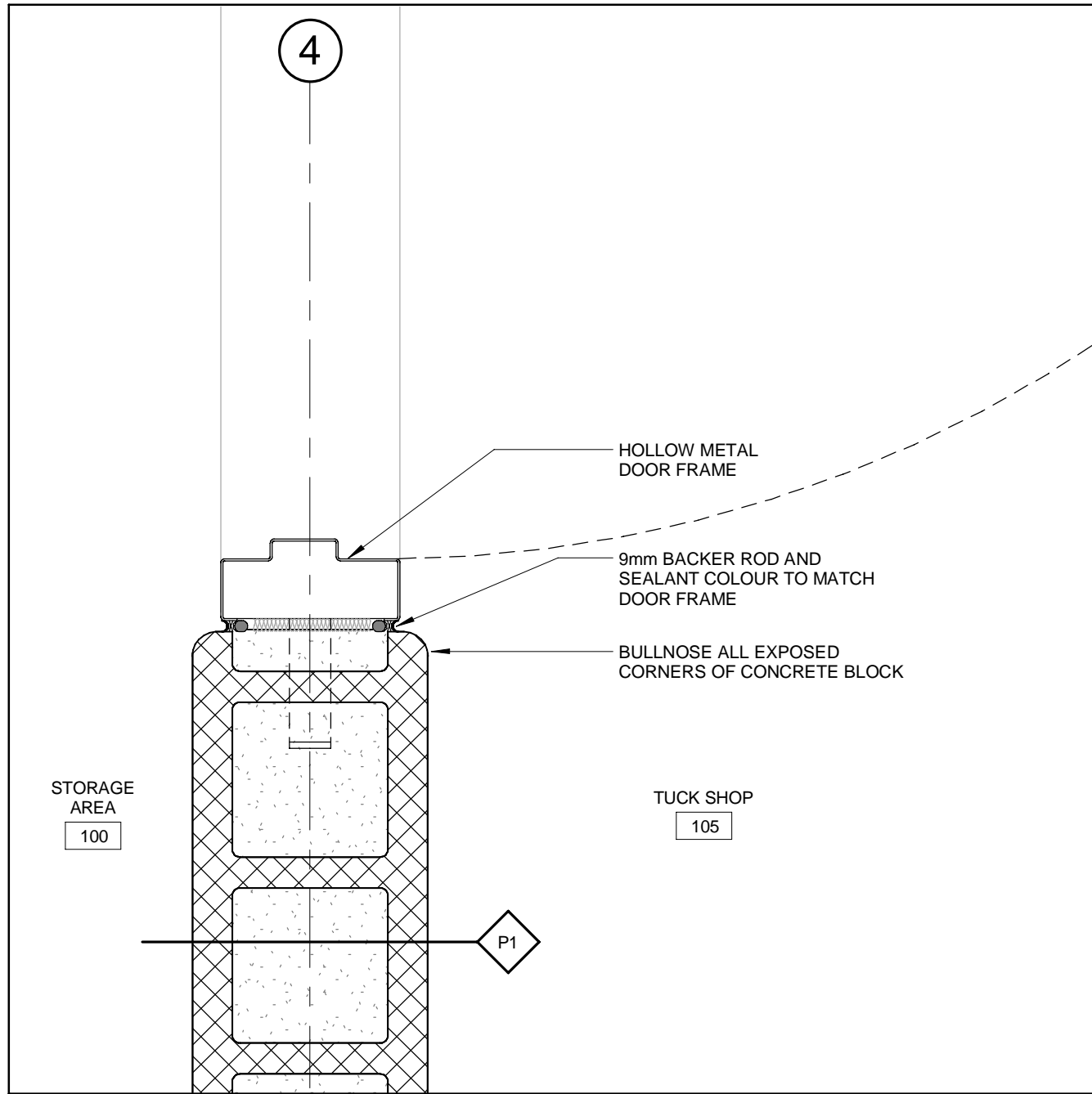




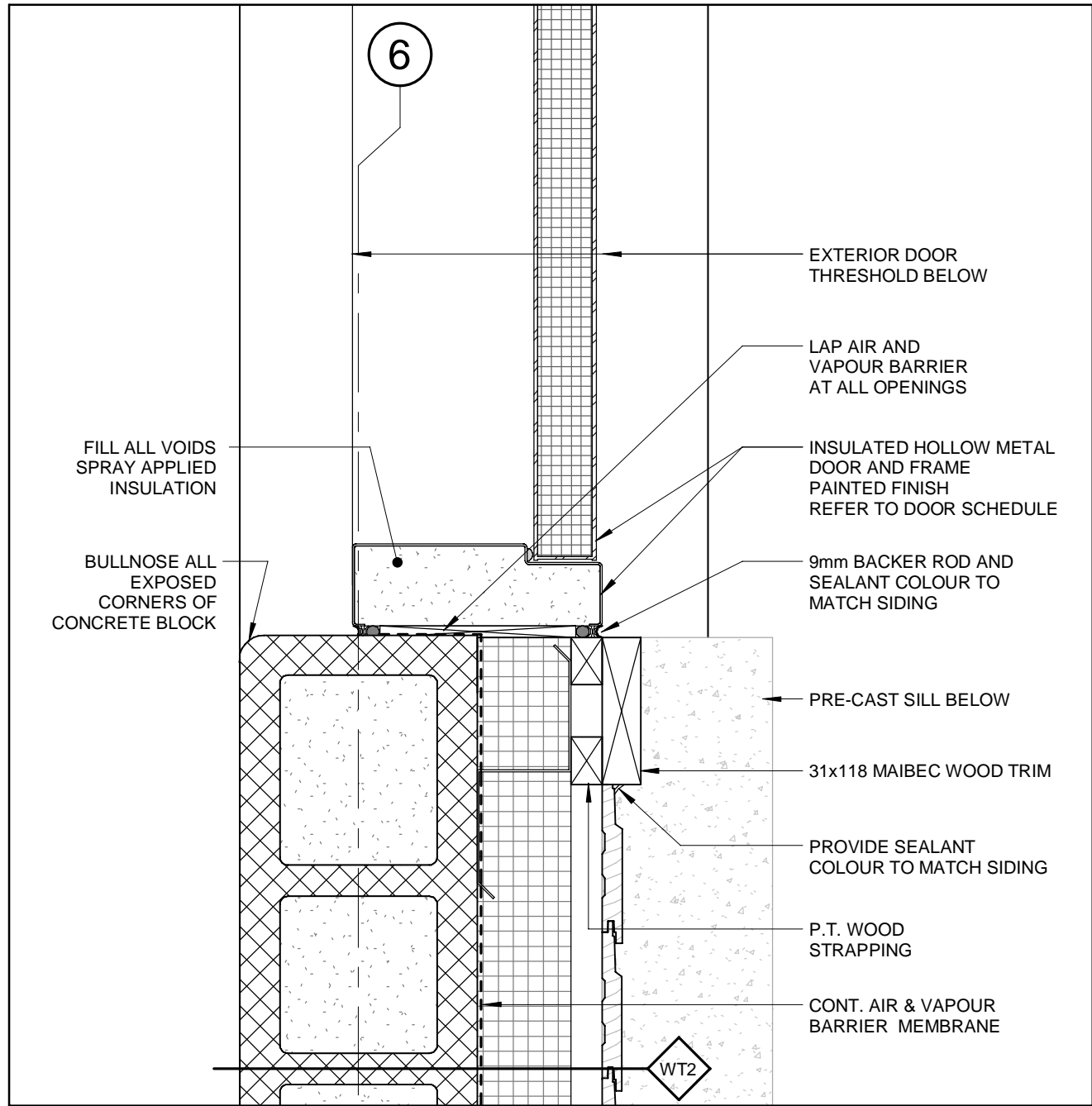
1 PLAN DETAIL - COLUMN AT D200a  
AS/A14 1:5



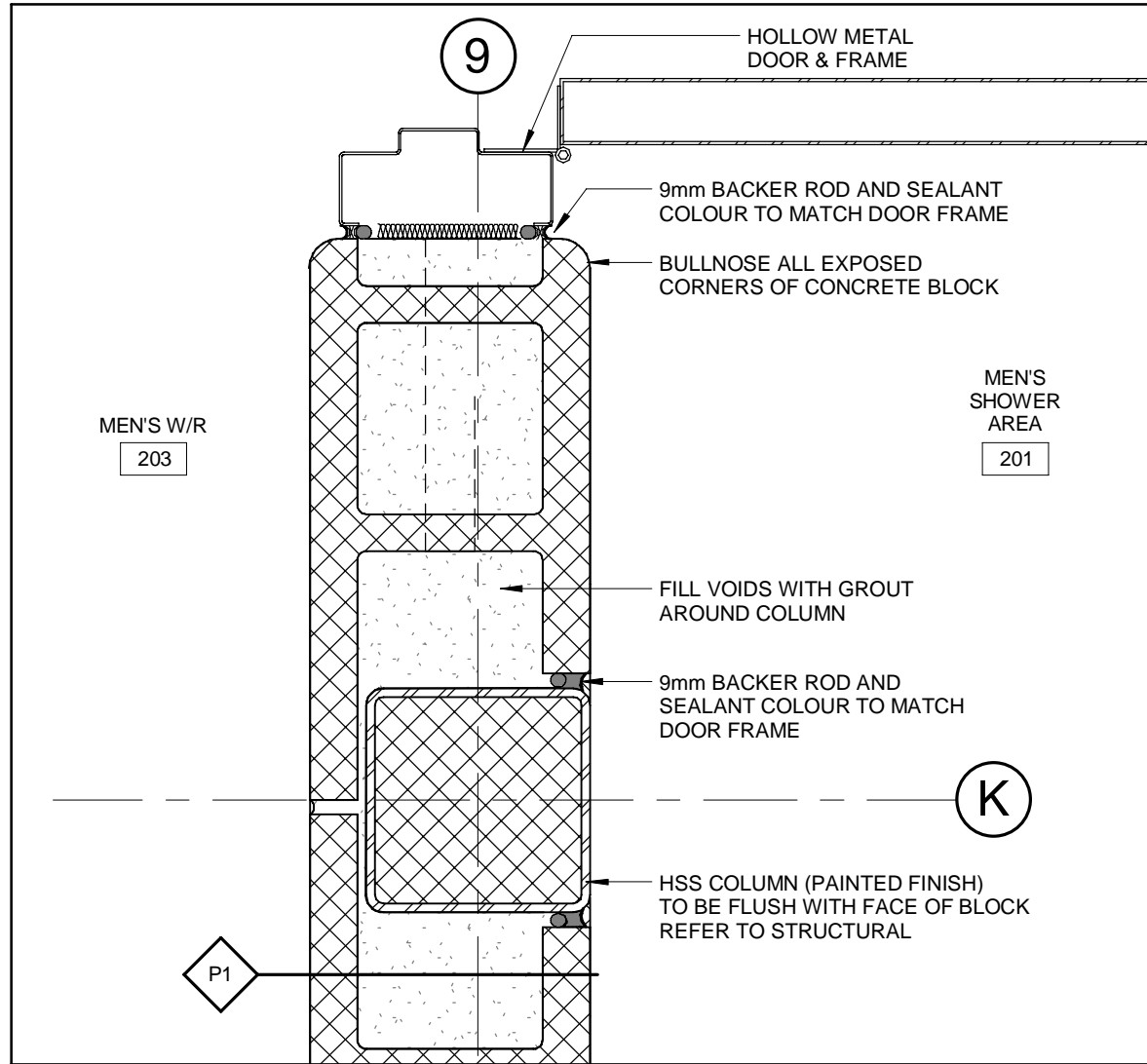
2 PLAN DETAIL - O/H DOOR JAMB  
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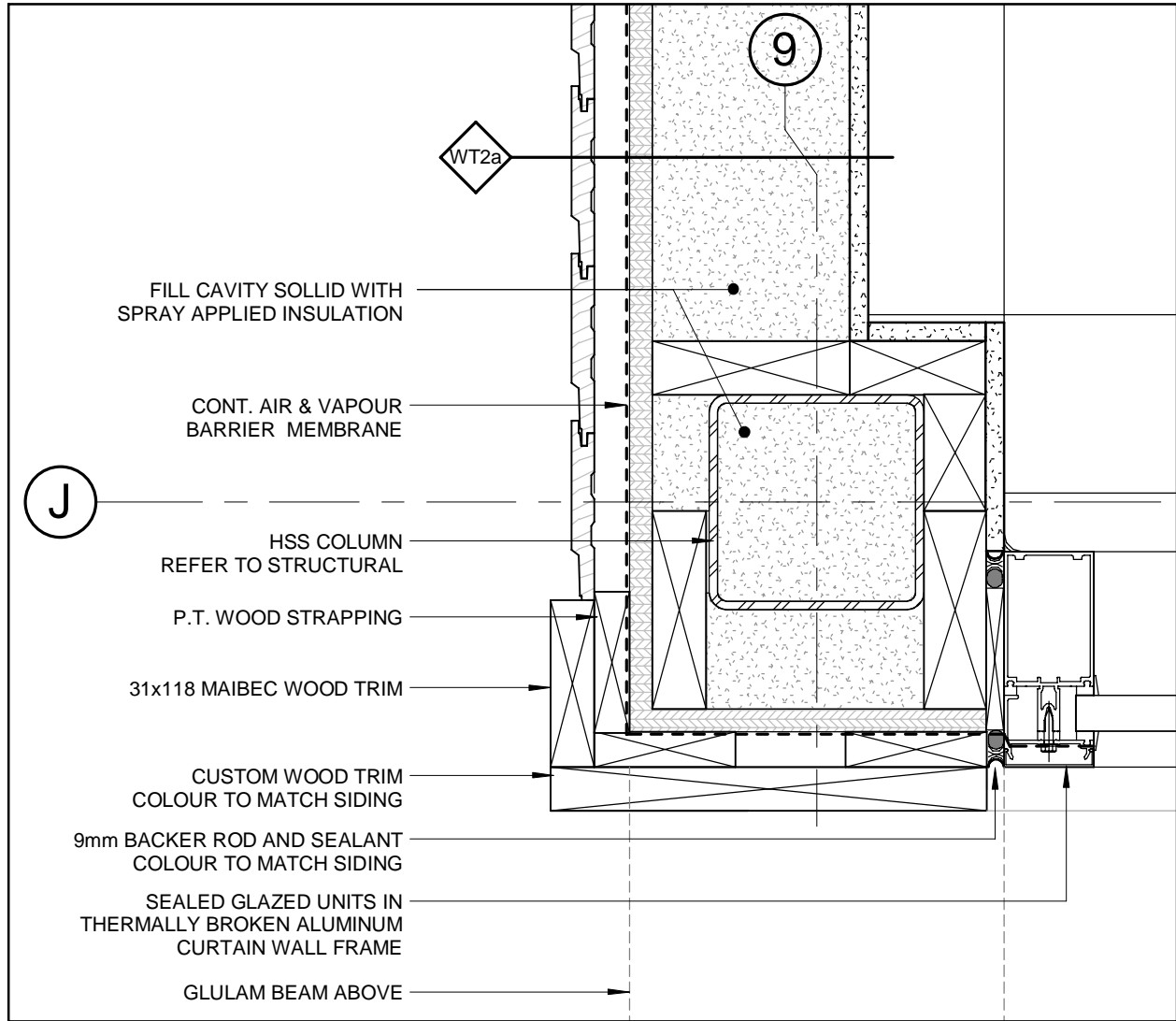
3 PLAN DETAIL - INTERIOR DOOR JAMB  
AS/A14 1:5



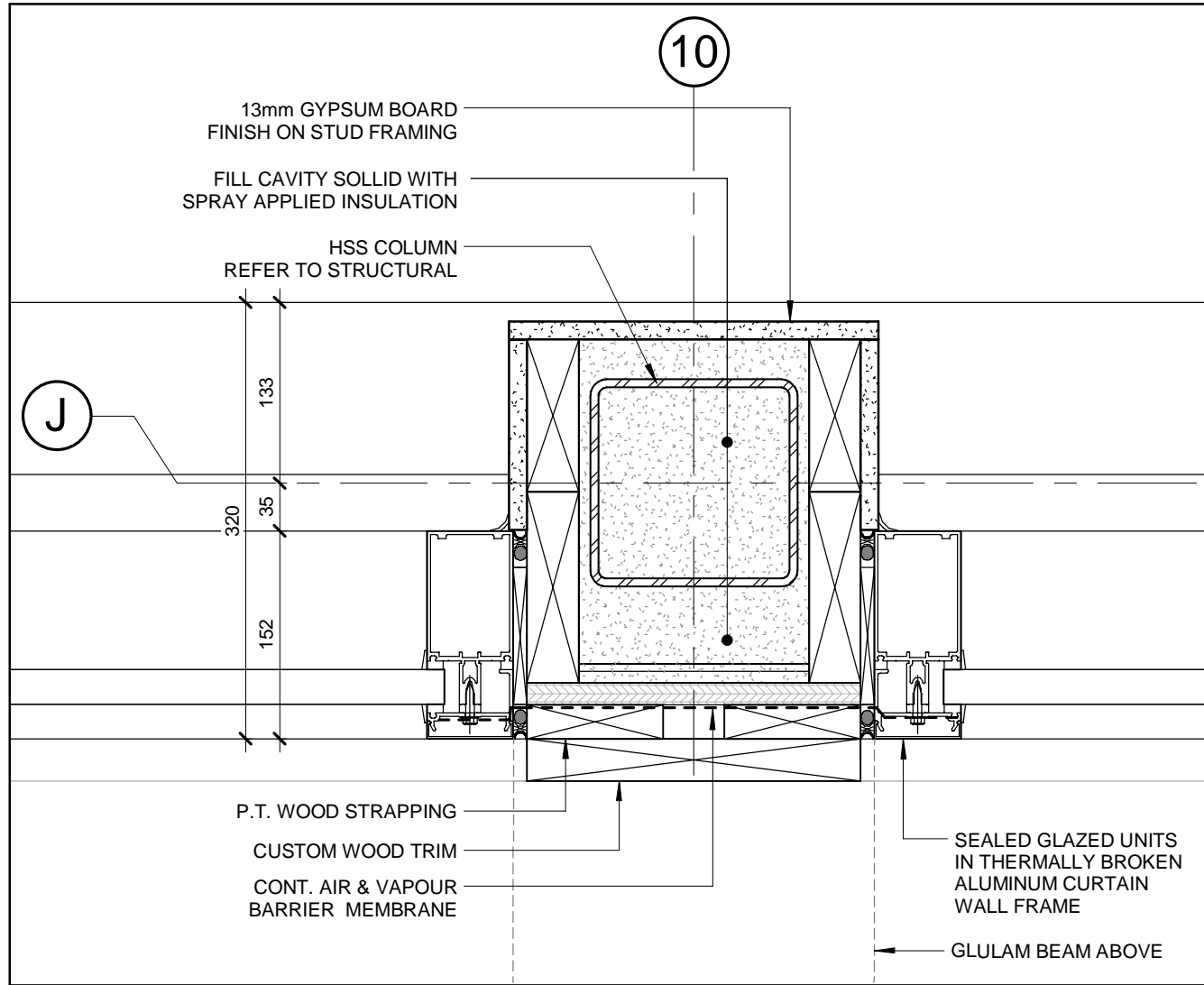
4 PLAN DETAIL - EXTERIOR DOOR JAMB  
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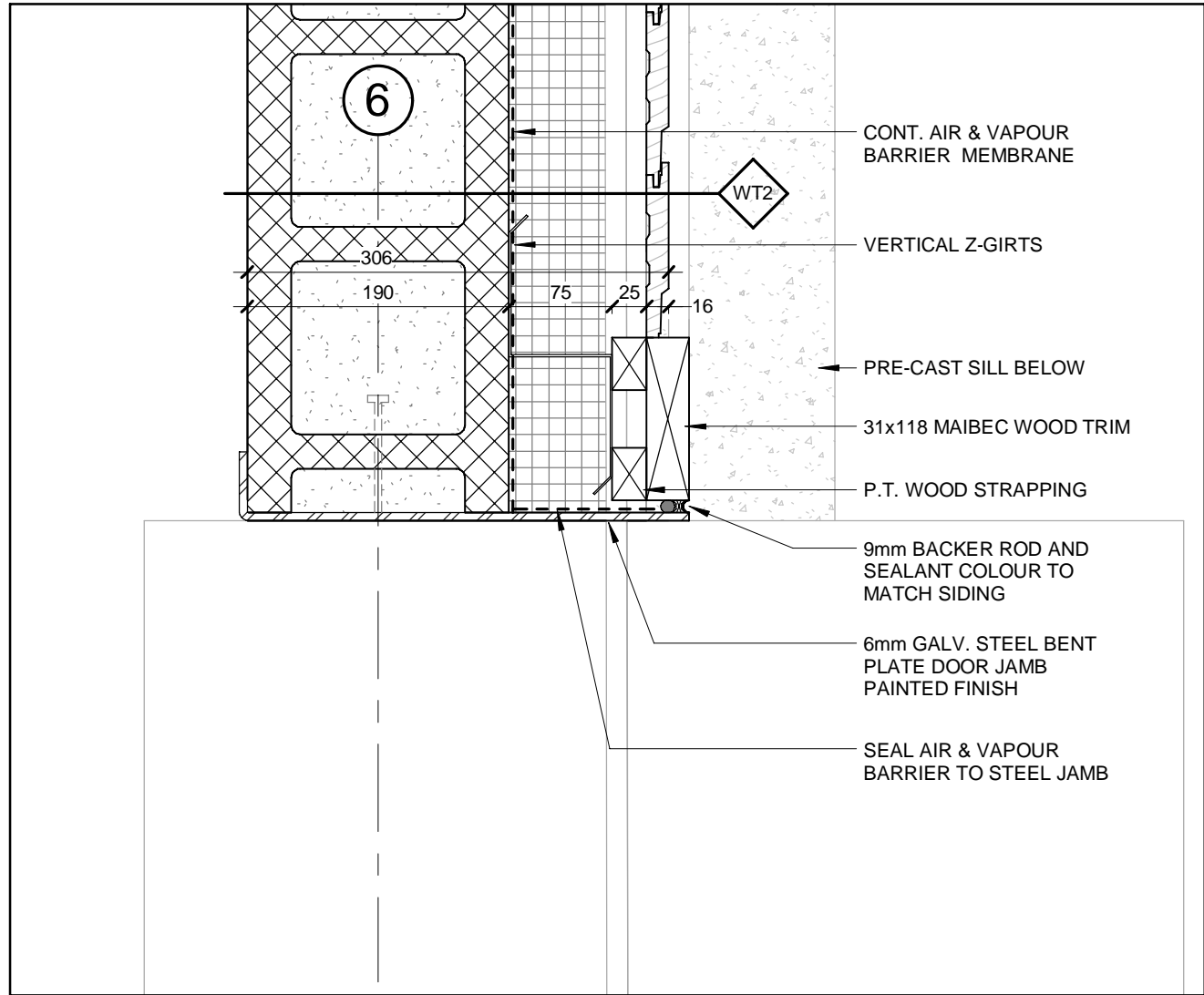
5 PLAN DETAIL - COLUMN AT D201  
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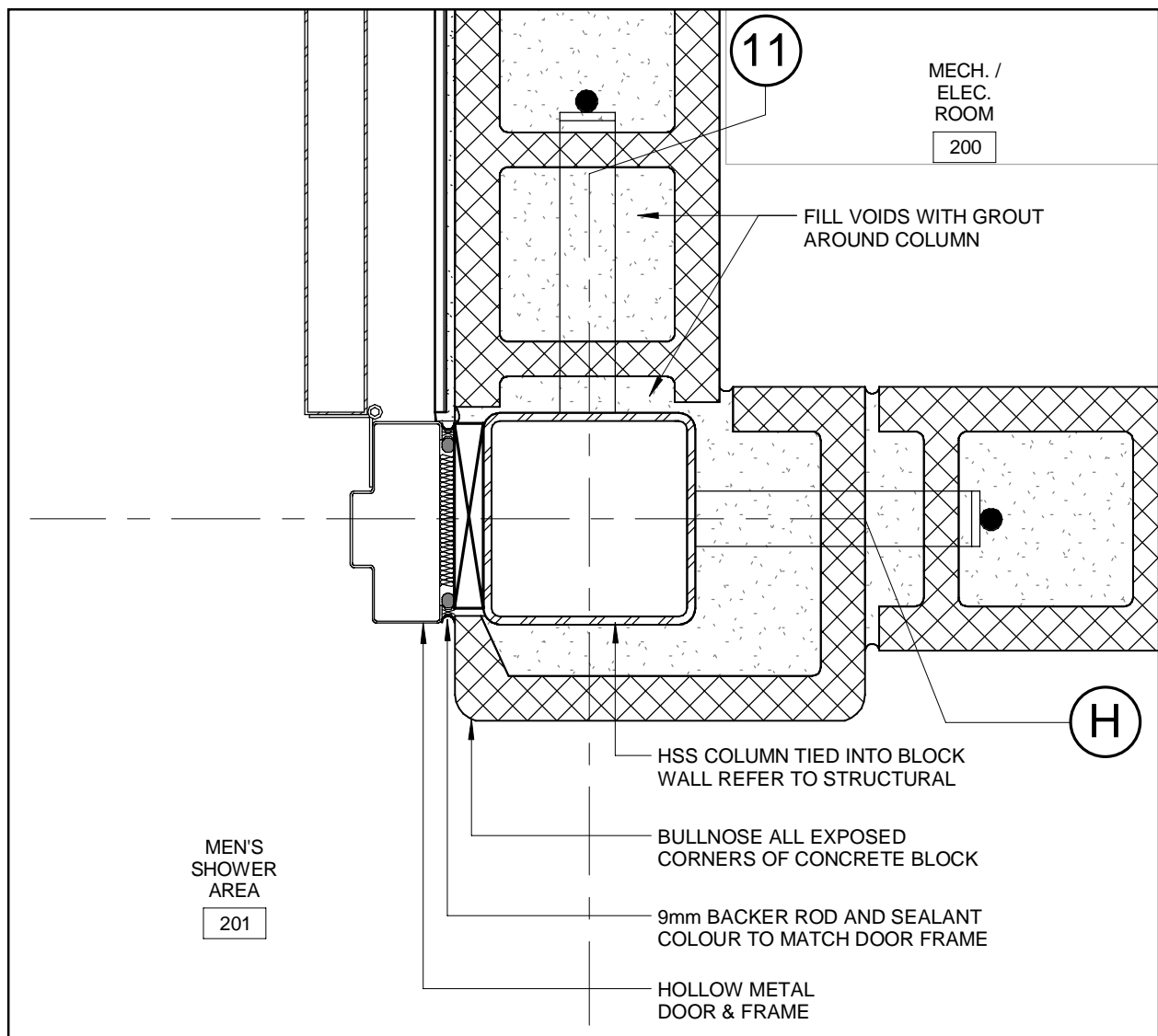
6 PLAN DETAIL - WALL CORNER AT HIGH WINDOW  
AS/A14 1:5



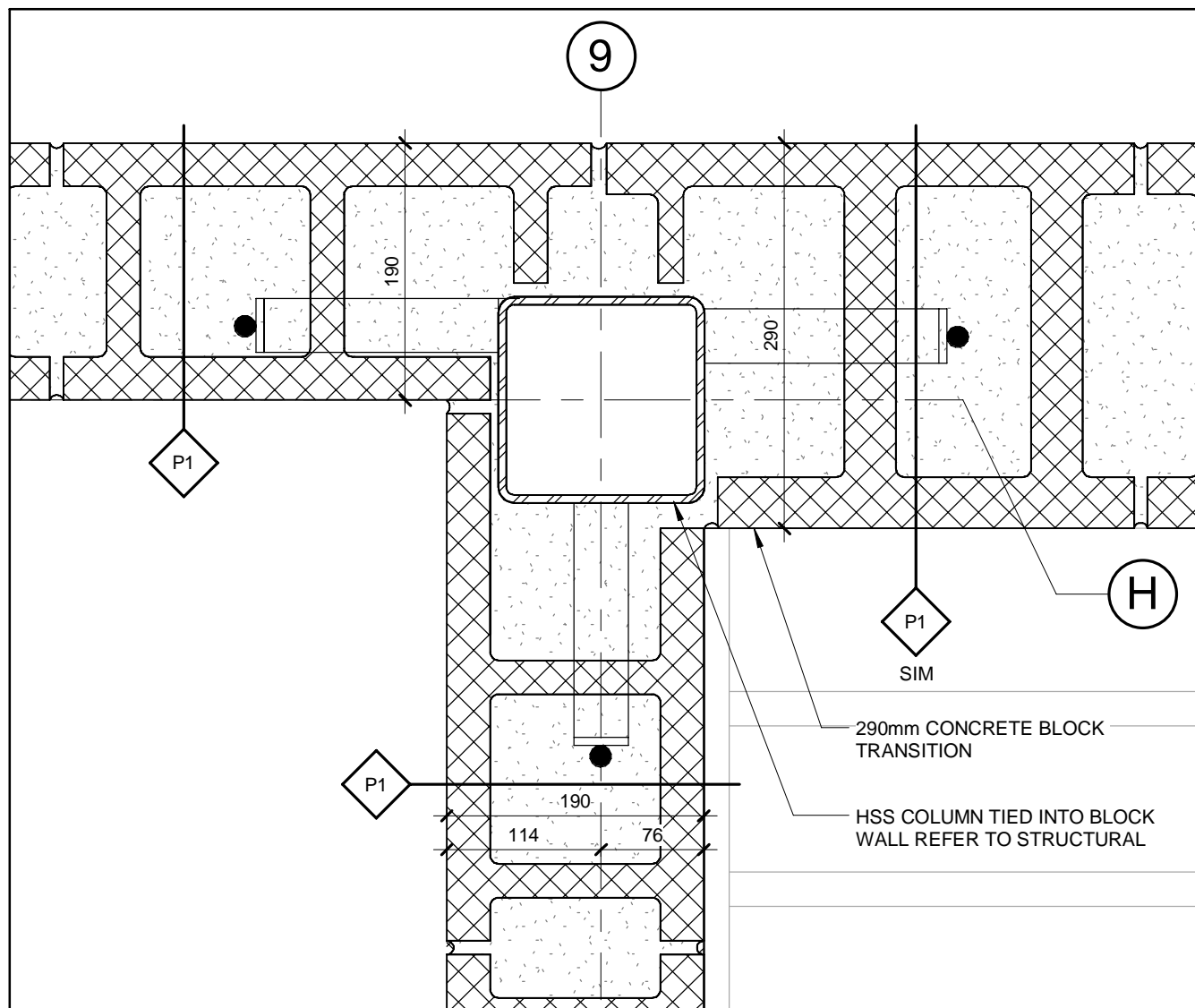
7 PLAN DETAIL - COLUMN AT HIGH WINDOW  
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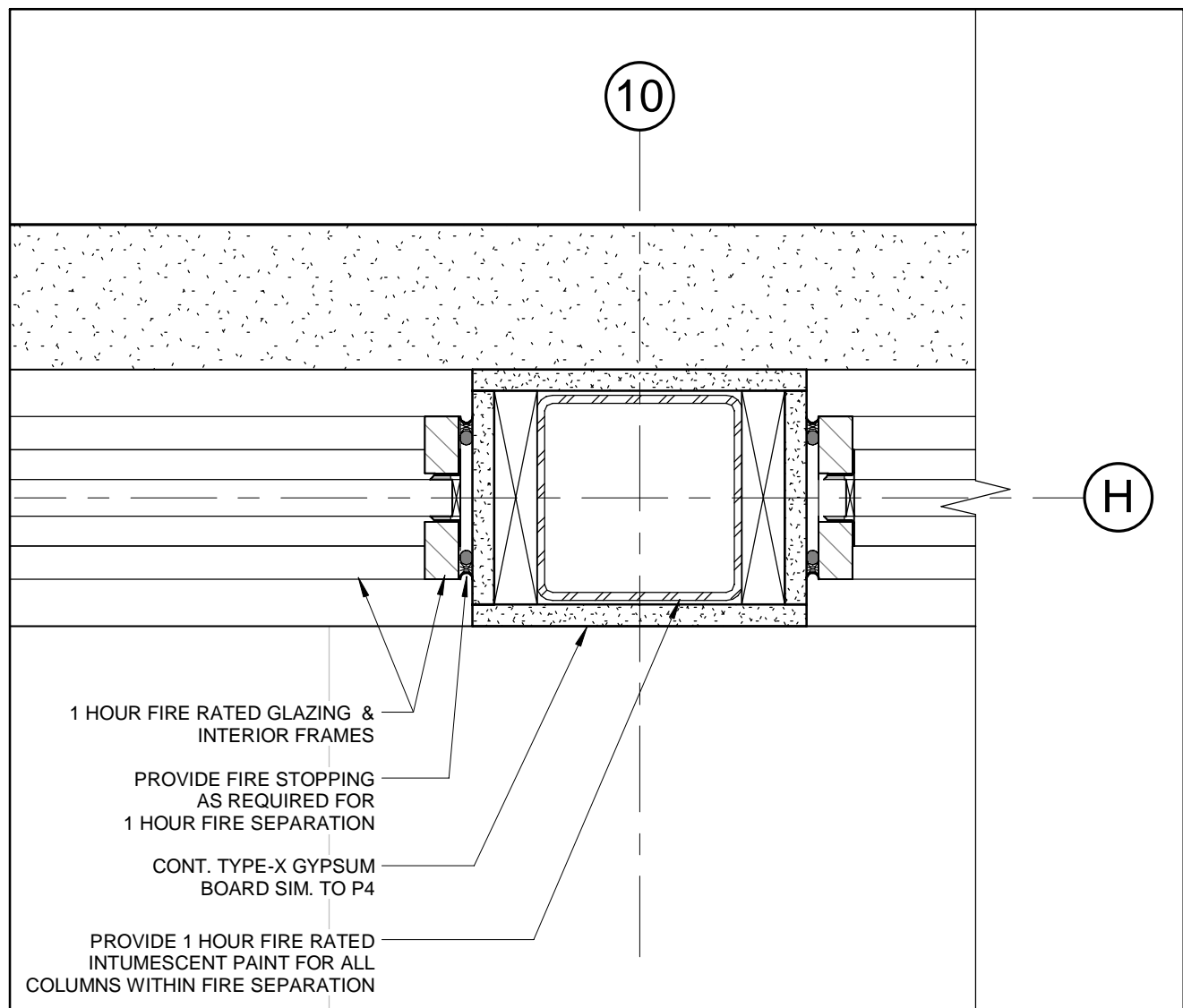
8 PLAN DETAIL- TUCK SHOP WINDOW JAMB  
AS/A14 1:5



9 PLAN DETAIL - COLUMN AT MEN'S SHOWER 6  
AS/A14 1:5



10 PLAN DETAIL - COLUMN AT UNIVERSAL B.F. SHOWER 1  
AS/A14 1:5



11 PLAN DETAIL- FIRE SEPARATION @ COLUMN & WINDOW  
AS/A14 1:5

DRAWING NO. DRAWING NAME

REFERENCE DRAWINGS

0	2018- 06- 19	ISSUED FOR TENDER	JA	RB
NO.	DATE	DESCRIPTION	Drawn By/ Dessine par	Approved/ Approuve

REVISIONS

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

LINEAR DIMENSIONS IN MILLIMETERS  
Dimensions lineaires en millimetres

Parcs Canada  
Parks Canada



Canada

PARKS CANADA

Type of Record /  
Type d'enregistrement

Project title / Titre du projet  
**CYPRUS LAKE  
CAMPGROUND - THE  
HUB AMENITY BUILDING**

Drawing title / Titre du Dessin  
**PLAN DETAILS**

Plot Scale / Echelle  
1 : 5

Drawn by/ Dessin par  
JA Date  
2017- 10- 05

Field Recording by/  
Releve- Temoin par Date

Approved by/ Approuve par  
RT Date  
2017- 04- 06

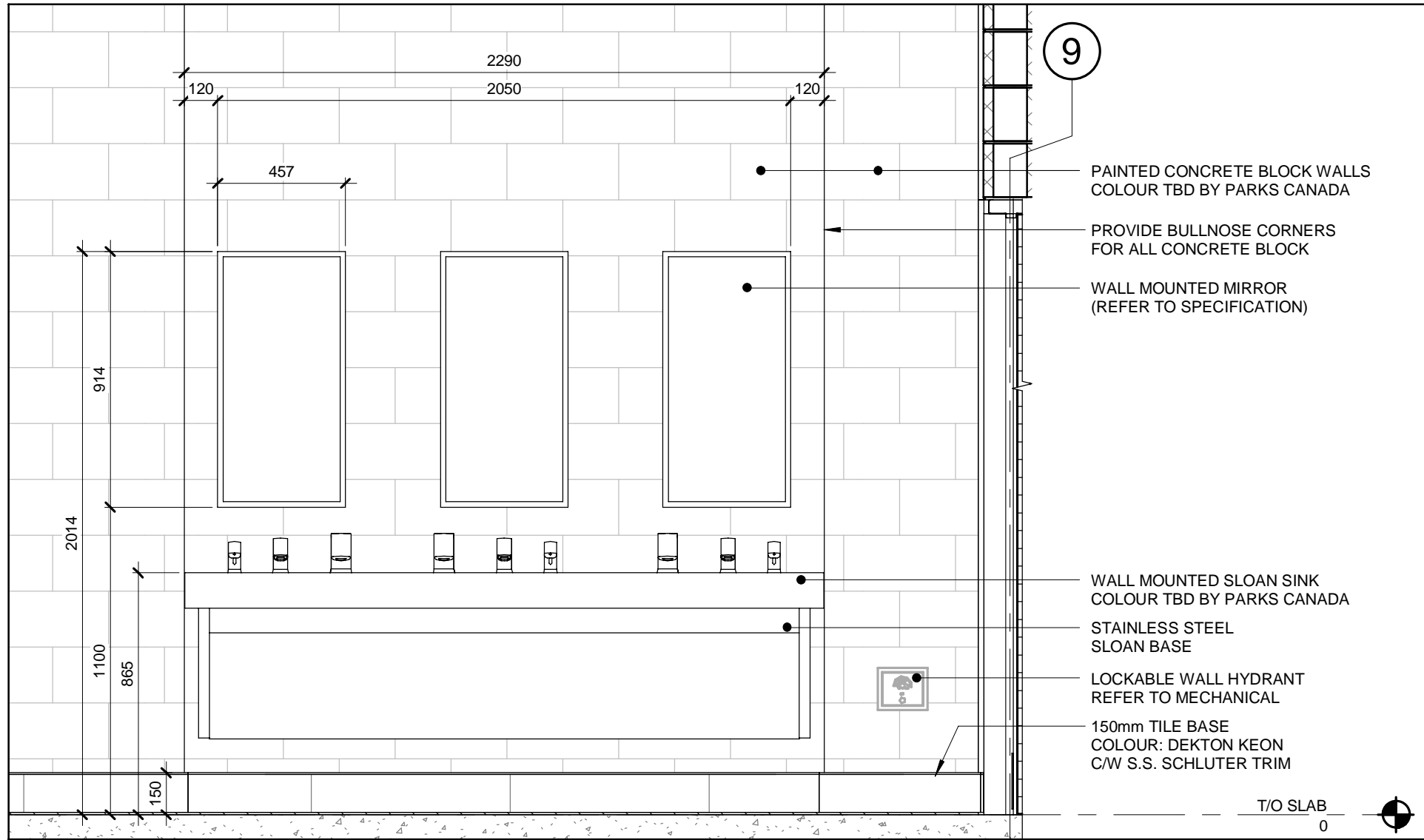
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2017- 04- 06

Project No./No. du projet  
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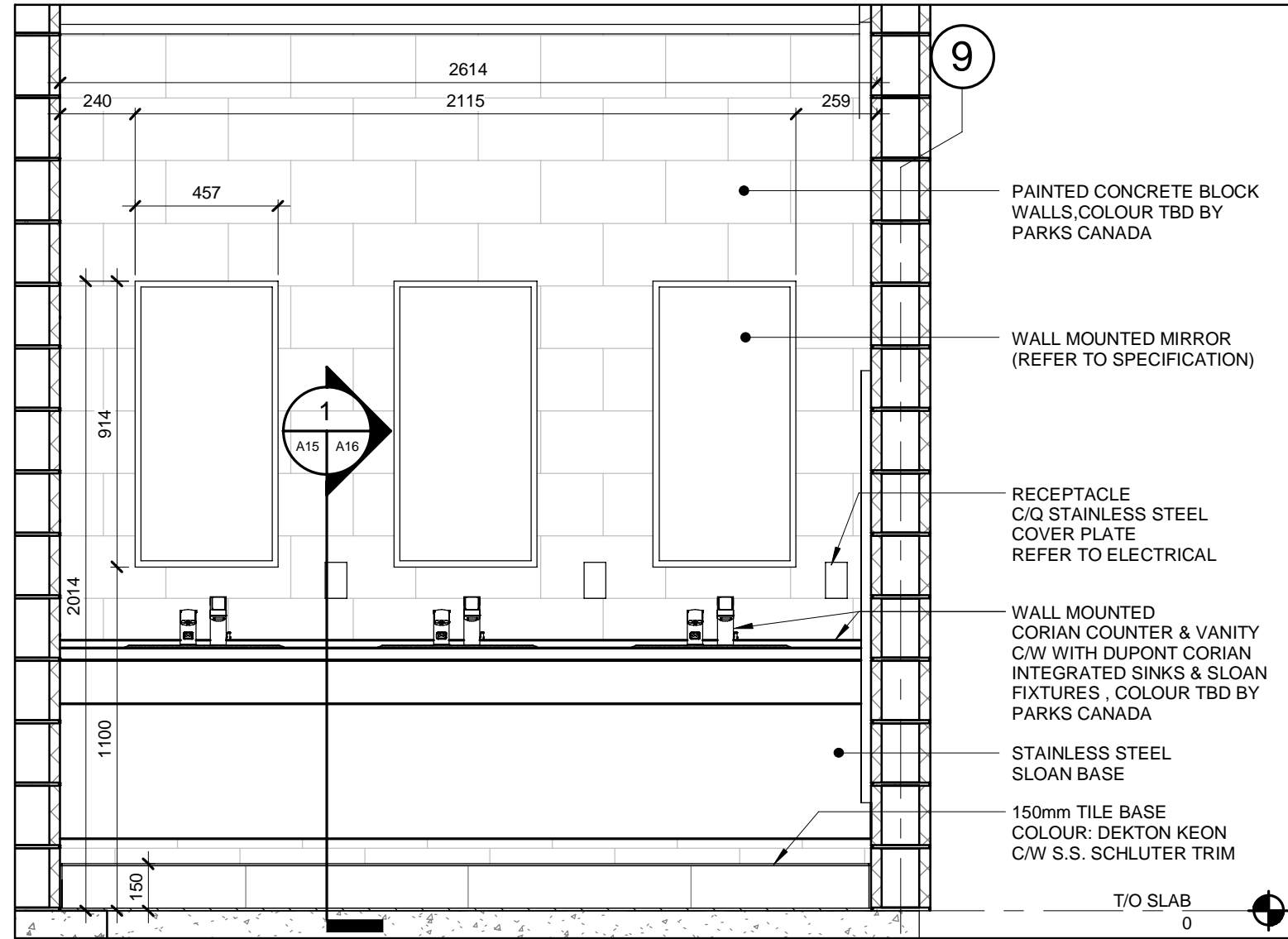
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Sheet No./  
Feuille No.  
**A14**

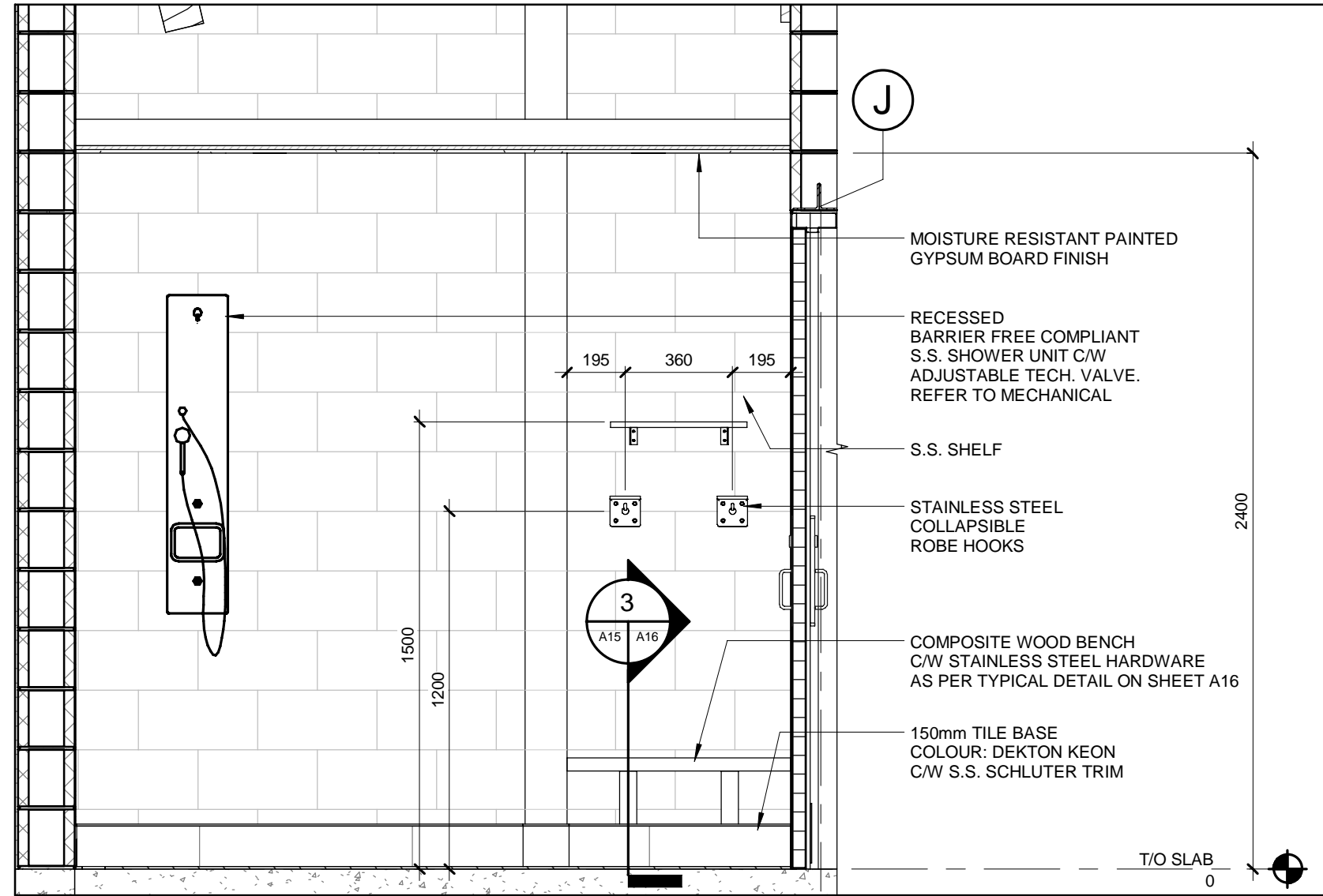




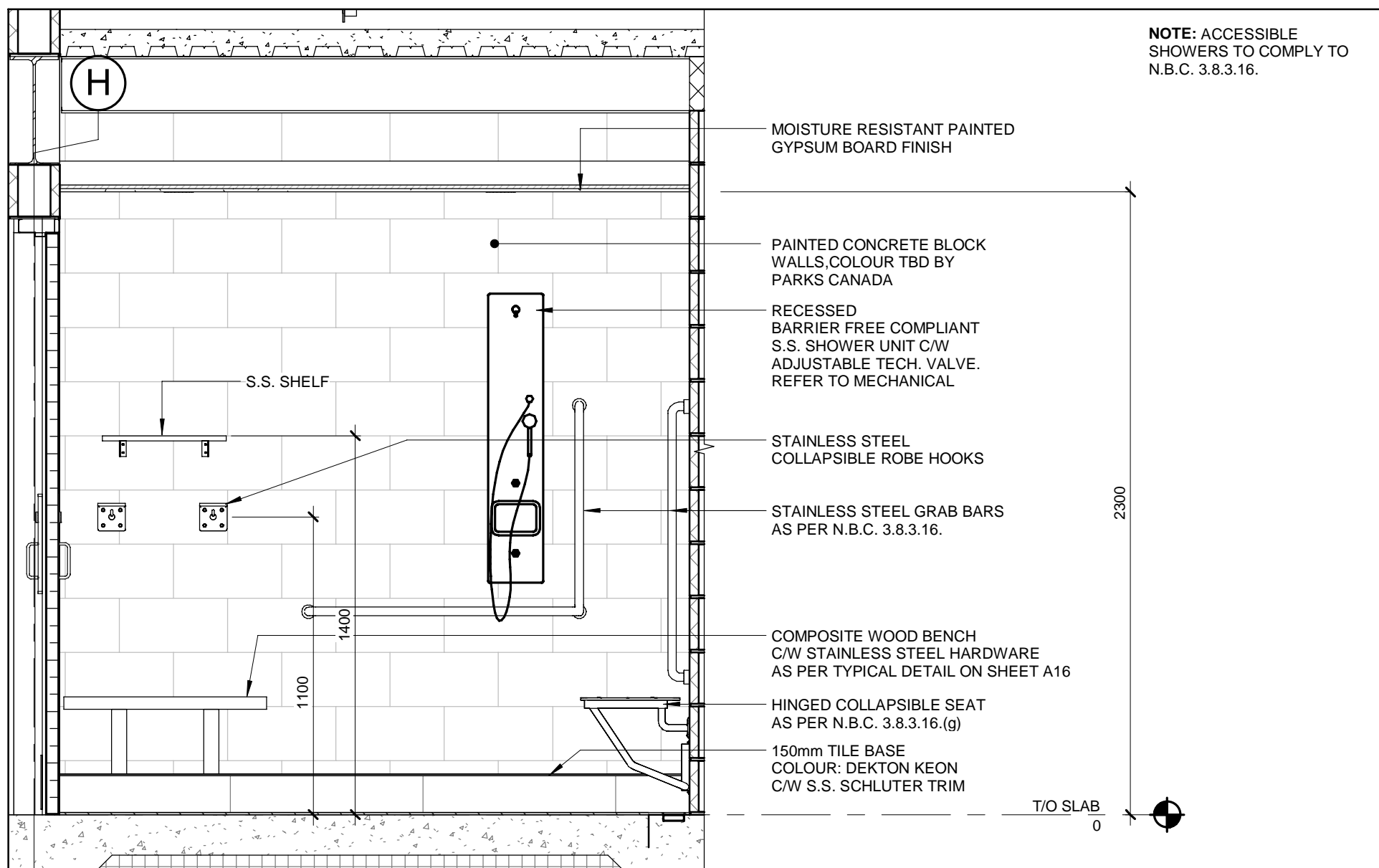
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AS A15 1:20



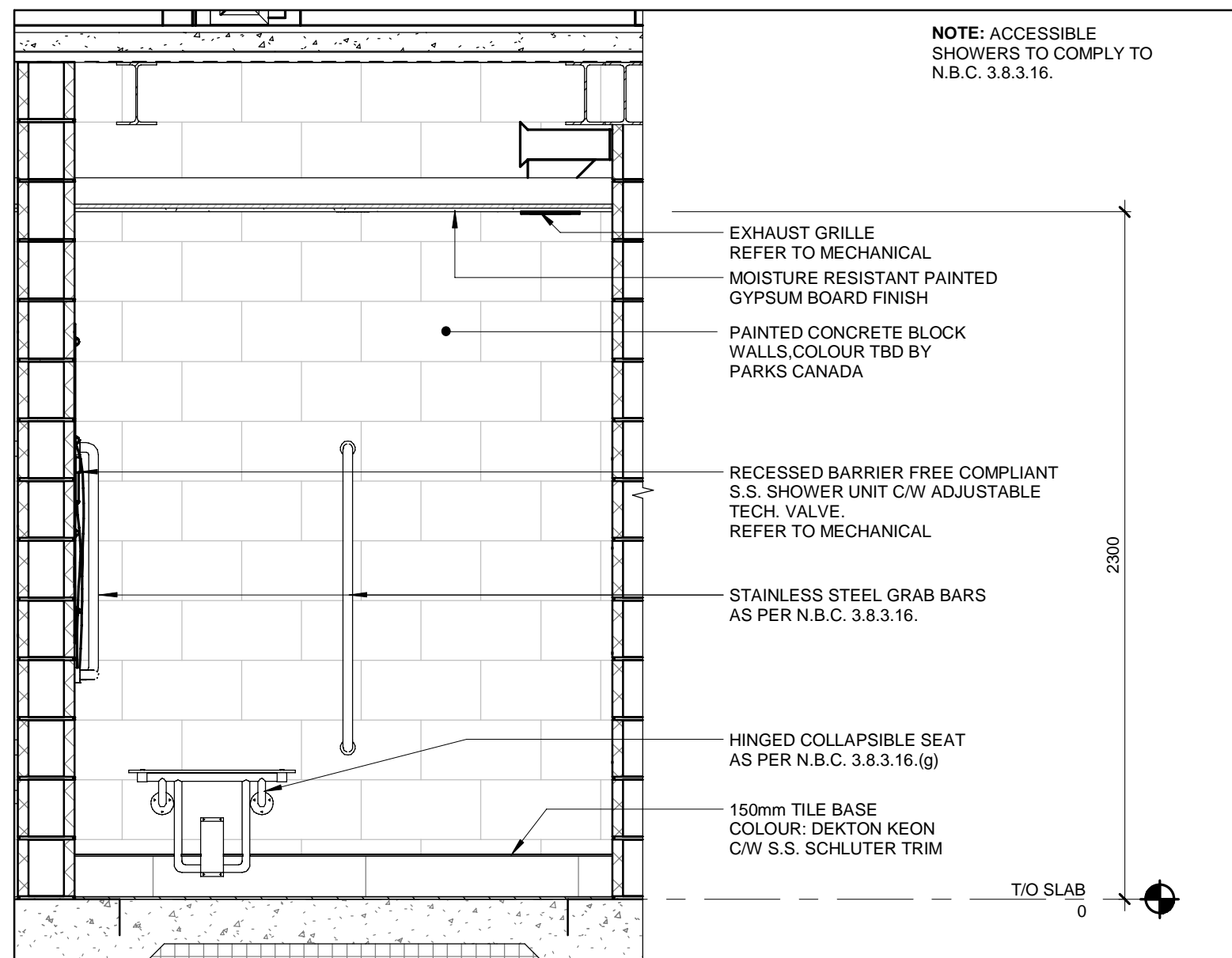
2 MILLWORK ELEVATION - SHOWER AREA  
AS A15 1:20



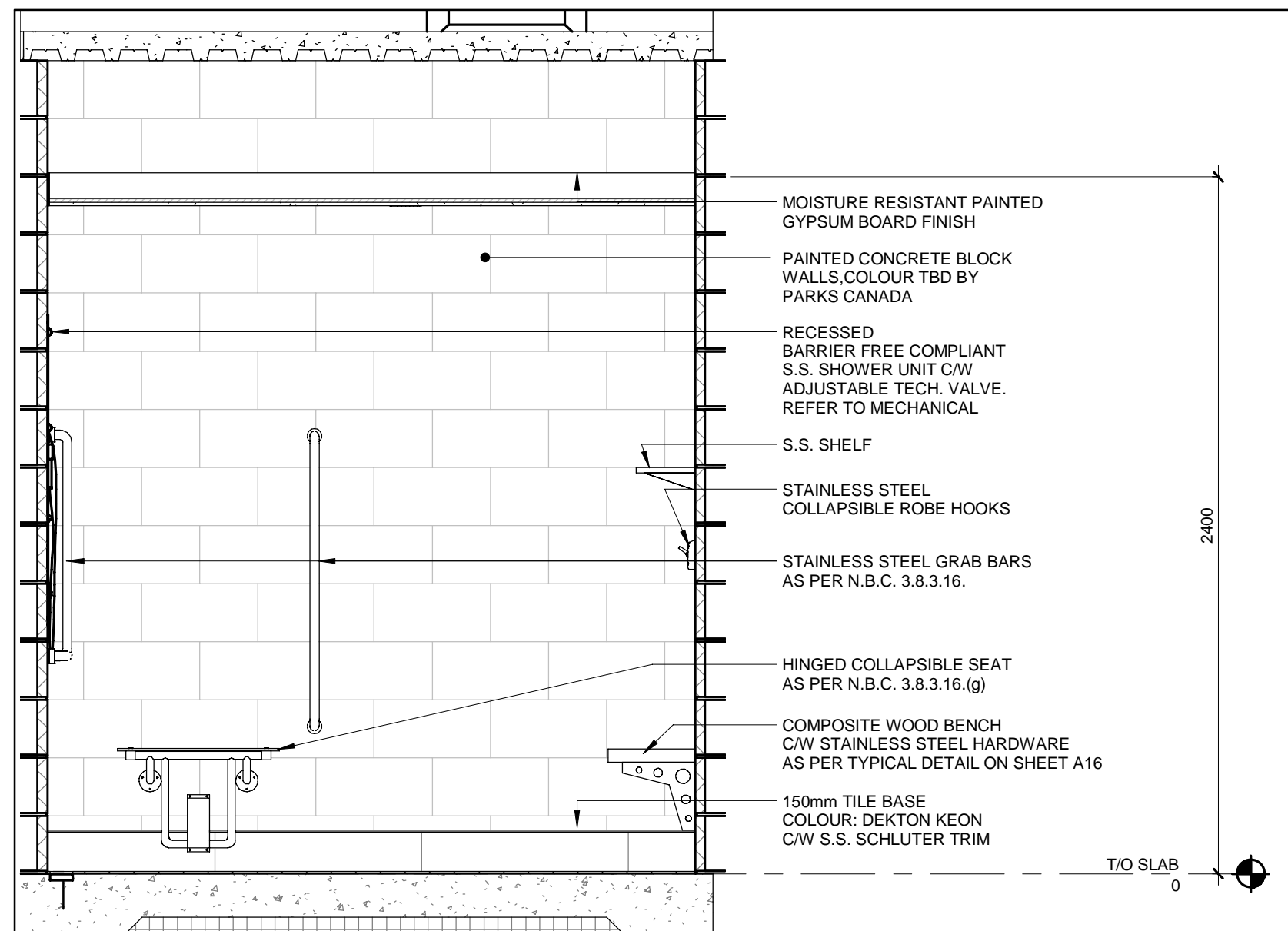
3 ELEVATION B - STANDARD SHOWER  
AS A15 1:20



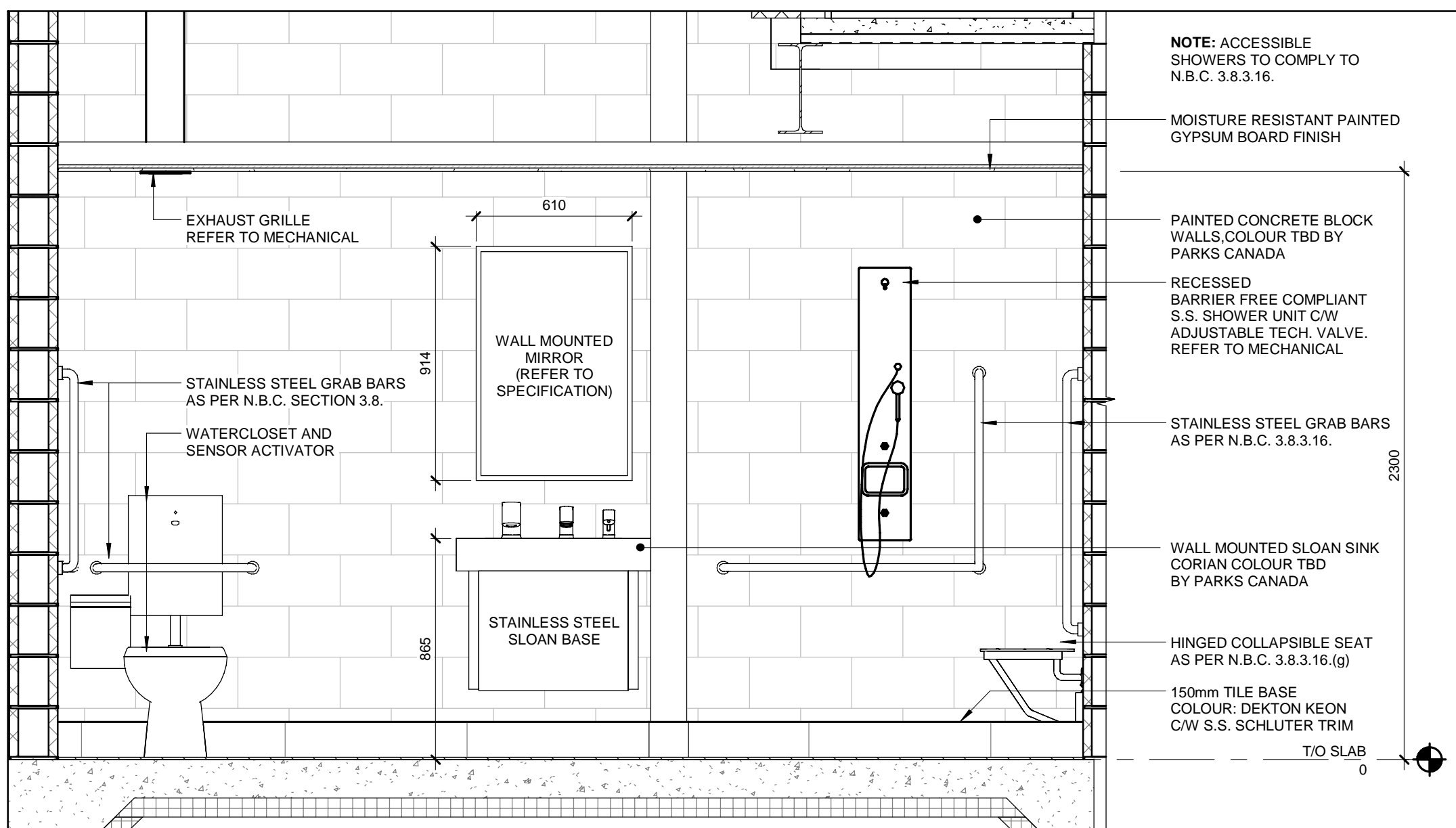
4 ELEVATION B - B.F. SHOWER  
AS A15 1:20



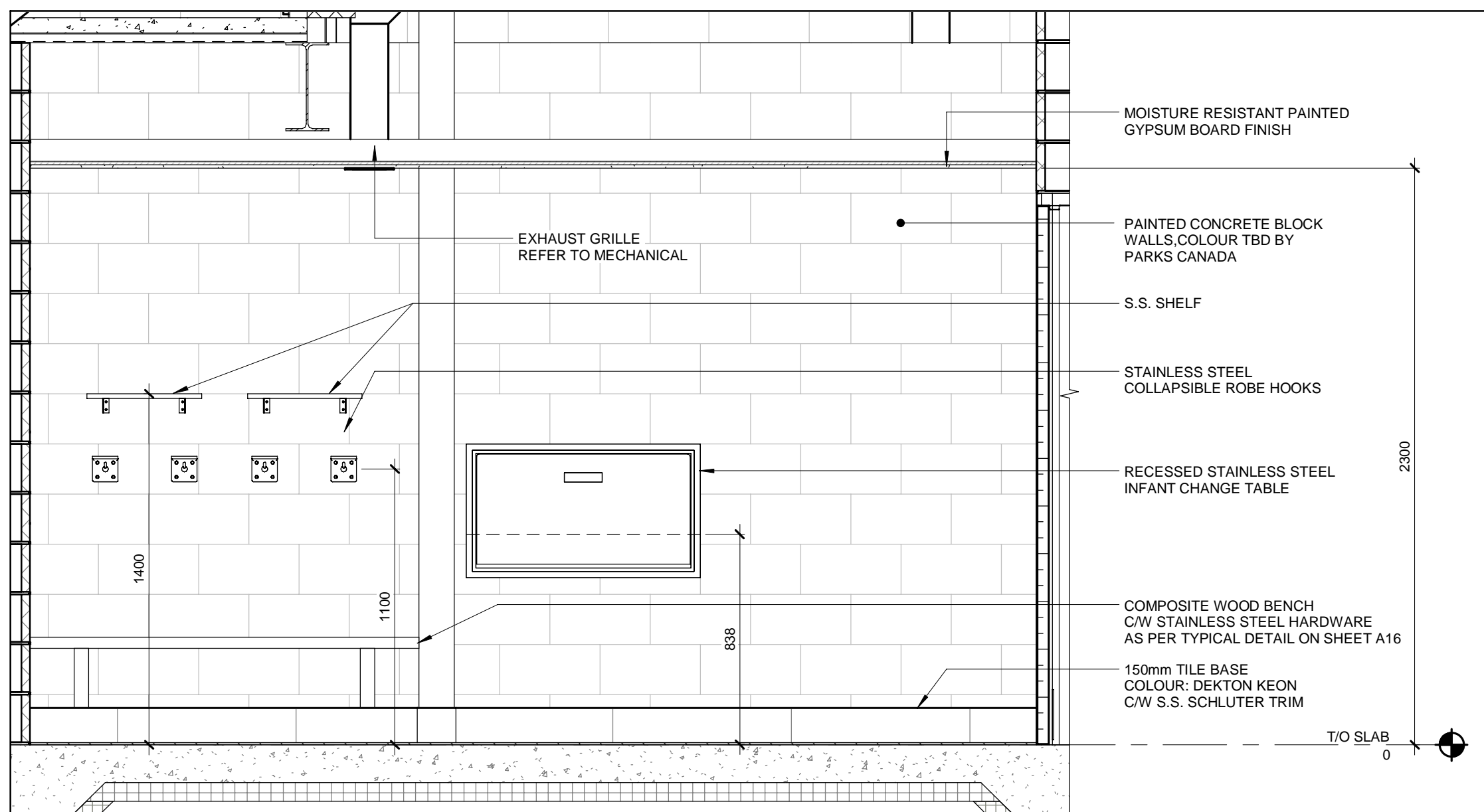
5 ELEVATION A - B.F. SHOWER  
AS A15 1:20



8 ELEVATION C - UNIVERSAL B.F. W/R & SHOWER  
AS A15 1:20



6 ELEVATION A - UNIVERSAL B.F. WASHROOM & SHOWER  
AS A15 1:20



7 ELEVATION B - UNIVERSAL B.F. WASHROOM & SHOWER  
AS A15 1:20

DRAWING NO. DRAWING NAME  
REFERENCE DRAWINGS

0	2018- 06- 19	ISSUED FOR TENDER	JA	RB
NO.	DATE	DESCRIPTION	Drawn By/ Dessine par	Approved/ Approuve

REVISIONS	
A	A Detail Number
B	B Sheet Number

LINEAR DIMENSIONS IN MILLIMETERS	Dimensions lineaires en millimetres

Canadä

PARKS CANADA

Type of Record /  
Type d'enregistrement

Project title / Titre du projet  
CYPRUS LAKE  
CAMPGROUND - THE  
HUB AMENITY BUILDING

Drawing title / Titre du Dessin  
INTERIOR ELEVATIONS &  
MILLWORK DETAILS

Plot Scale / Echelle  
1 : 20

Drawn by/ Dessin par  
JA Date  
2017- 10- 05

Field Recording by/  
Releve- Temoins par Date

Approved by/ Approuve par  
RT Date  
2018- 06- 01

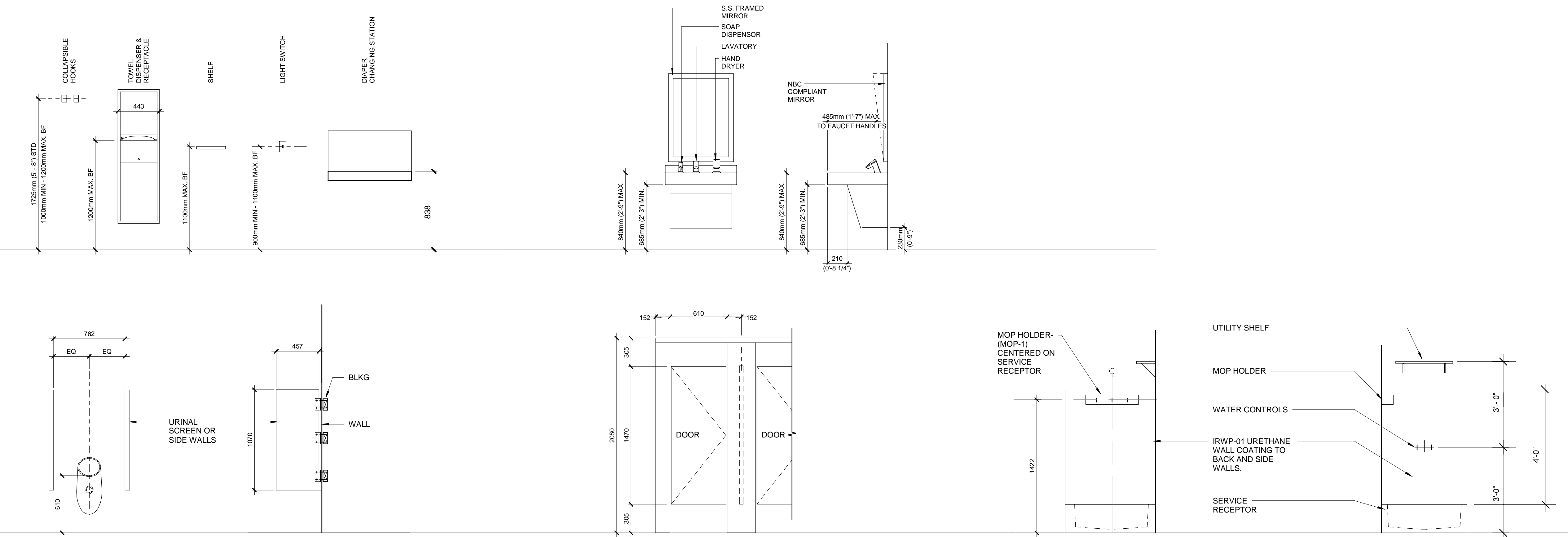
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2018- 06- 01

Project No./No. du projet Asset No. Sheet No./  
60554372 Feuille No.

Drawing Re No./No. du Dessin  
A15



WASHROOM FIXTURE MOUNTING HEIGHTS



URINAL AND URINAL SCREENS

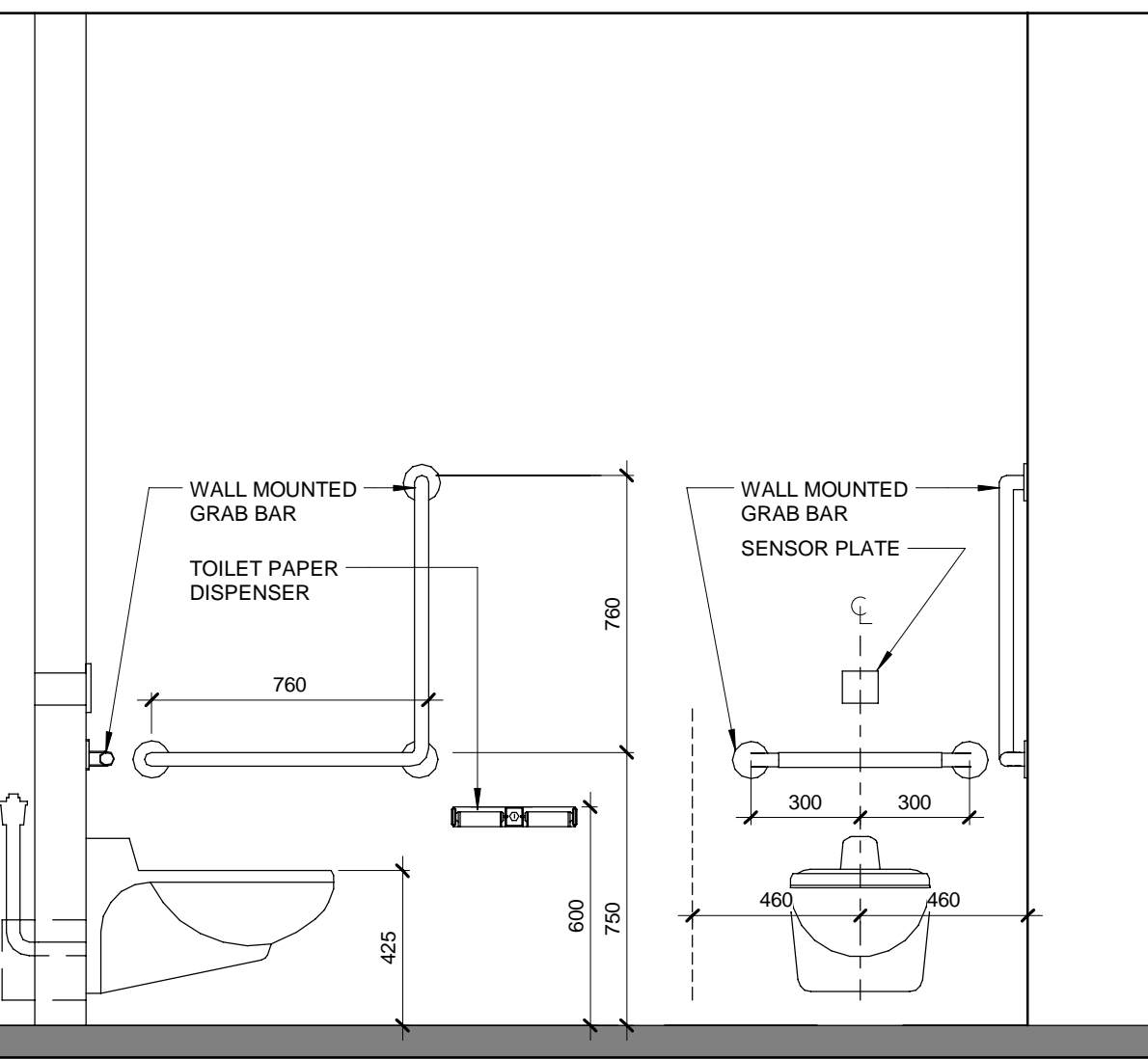
1. PROVIDE WALL BLOCKING & MOUNTING BRACKETS.
2. G.C. TO COORDINATE MOUNTING HEIGHTS WITH THE NATIONAL BUILDING CODE OF CANADA AND FIXTURE / ACCESSORY SUPPLIER(S).

TOILET PARTITION

1. REFER TO SPECIFICATIONS.
2. COLOUR TO BE APPROVED BY AECOM AND PARKS CANADA.

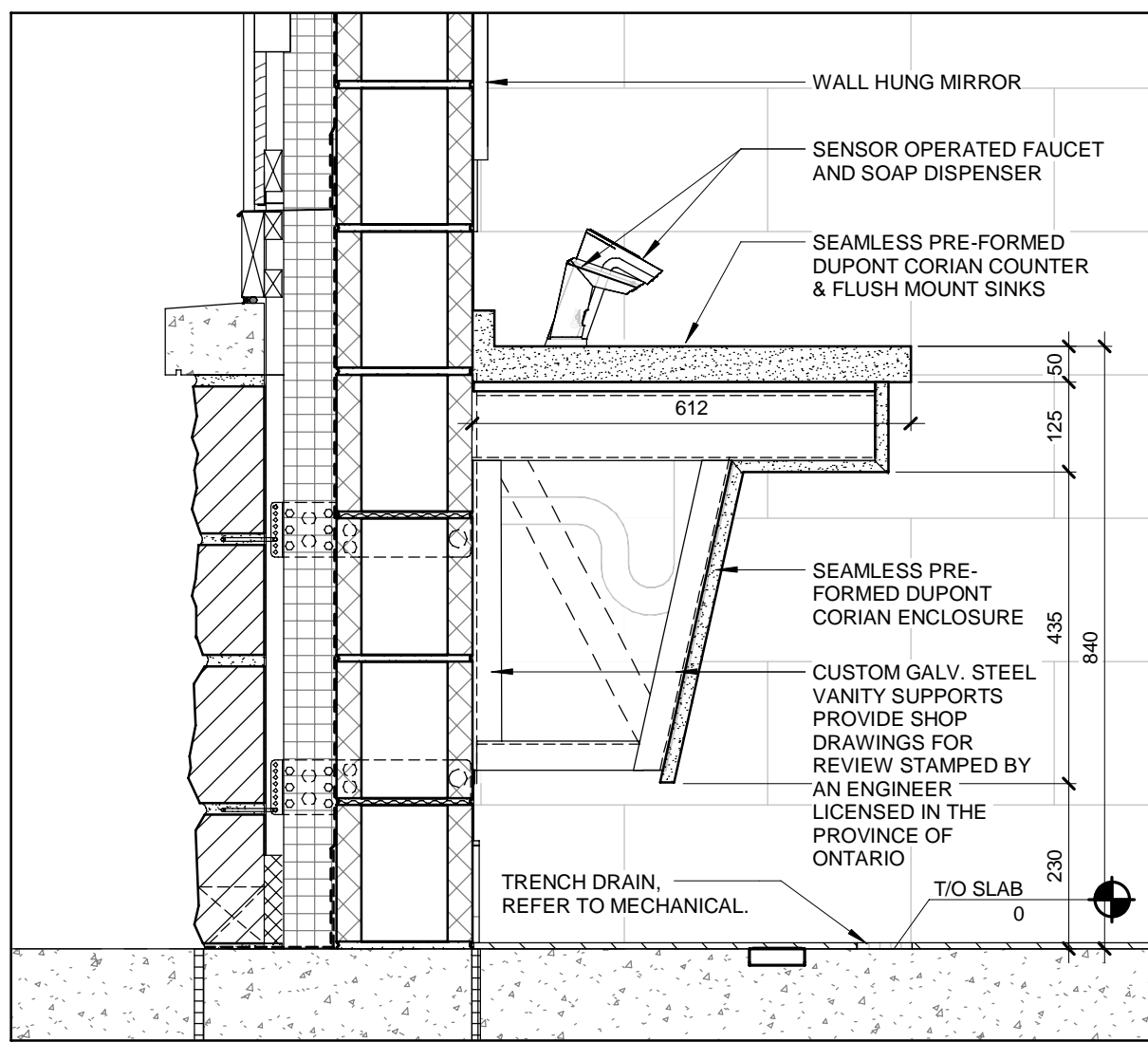
HOUSEKEEPING/EVS CLOSET

1. UTILITY SHELF 24" LONG UNO.
2. WATER CONTROLS AND SERVICE RECEPTOR, REFER MECHANICAL DRAWINGS.



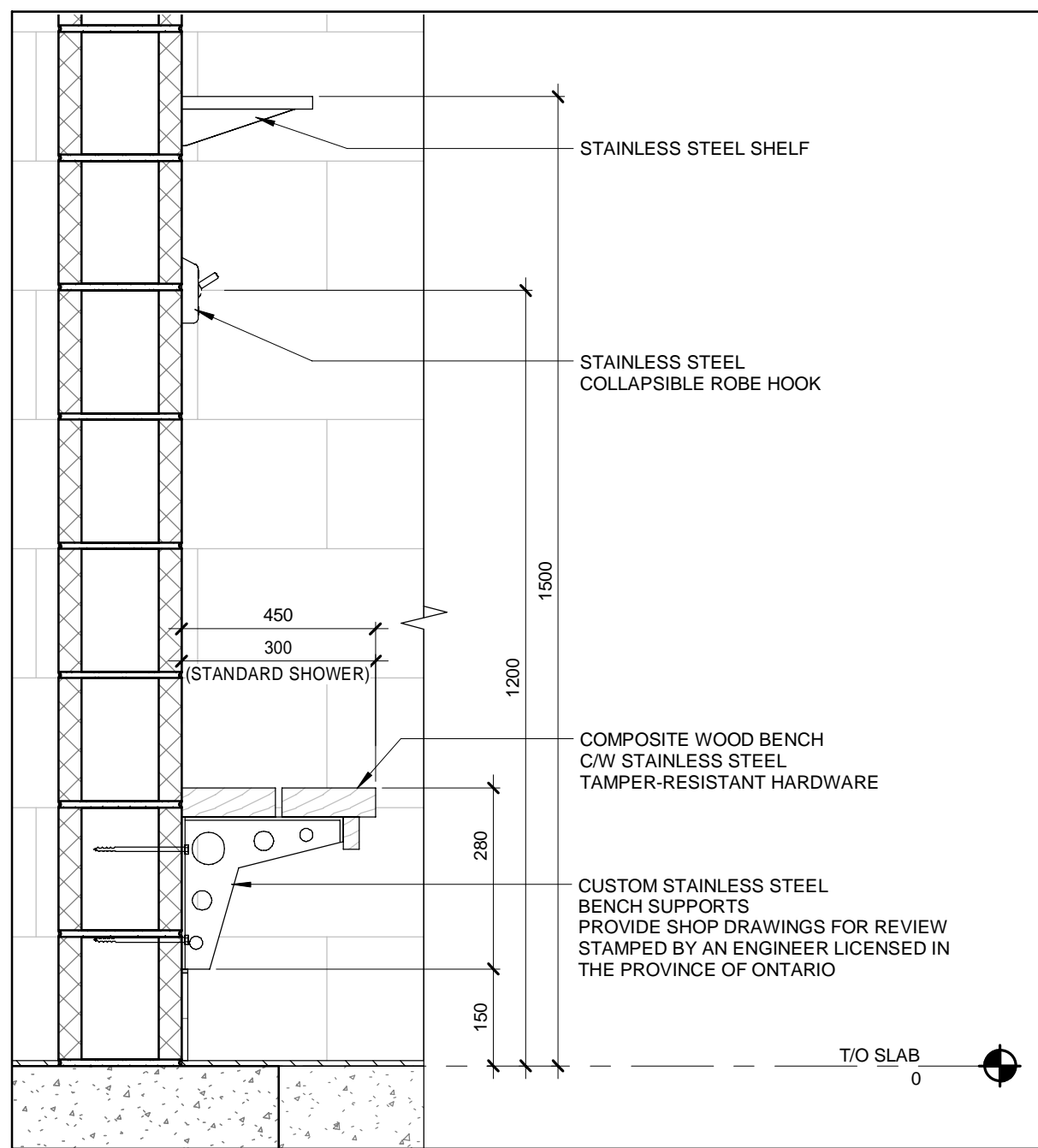
2 TYPICAL B-F TOILET

1: 20



1 DETAIL - SHOWER AREA VANITY / MILLWORK

1: 10



3 DETAIL - TYPICAL INTERIOR BENCH

1: 10

Canadä

PARKS CANADA

Type of Record /  
Type d'enregistrement

Project title / Titre du projet  
**CYPRUS LAKE  
CAMPGROUND - THE  
HUB AMENITY BUILDING**

Drawing title / Titre du Dessin  
**INTERIOR ELEVATIONS &  
MILLWORK DETAILS**

Plot Scale / Echelle  
As indicated

Drawn by/ Dessin par  
JA Date  
2017- 10- 05

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Approved by/ Approuve par  
RT Date  
2017- 04- 06

Checked by/ Verifie par  
RT Date  
2017- 04- 06

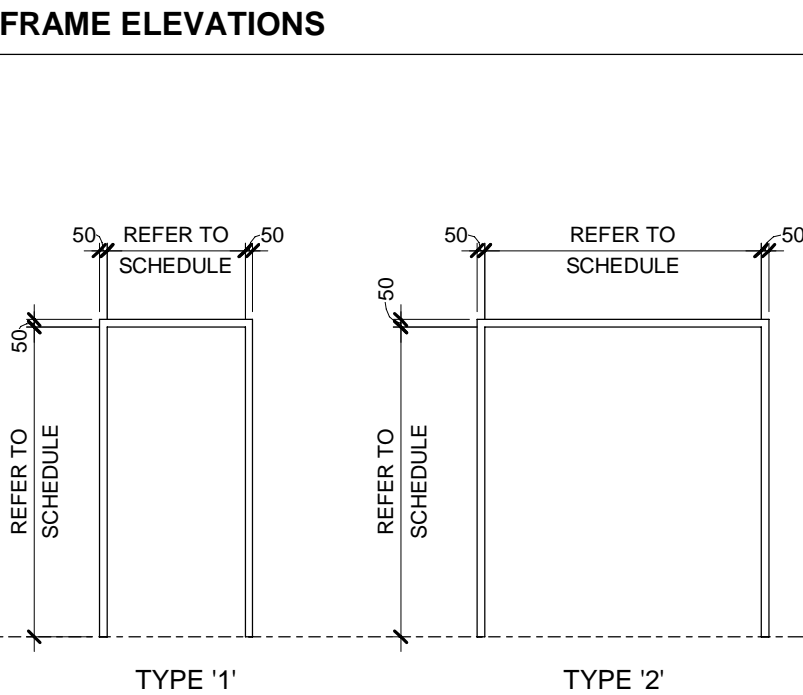
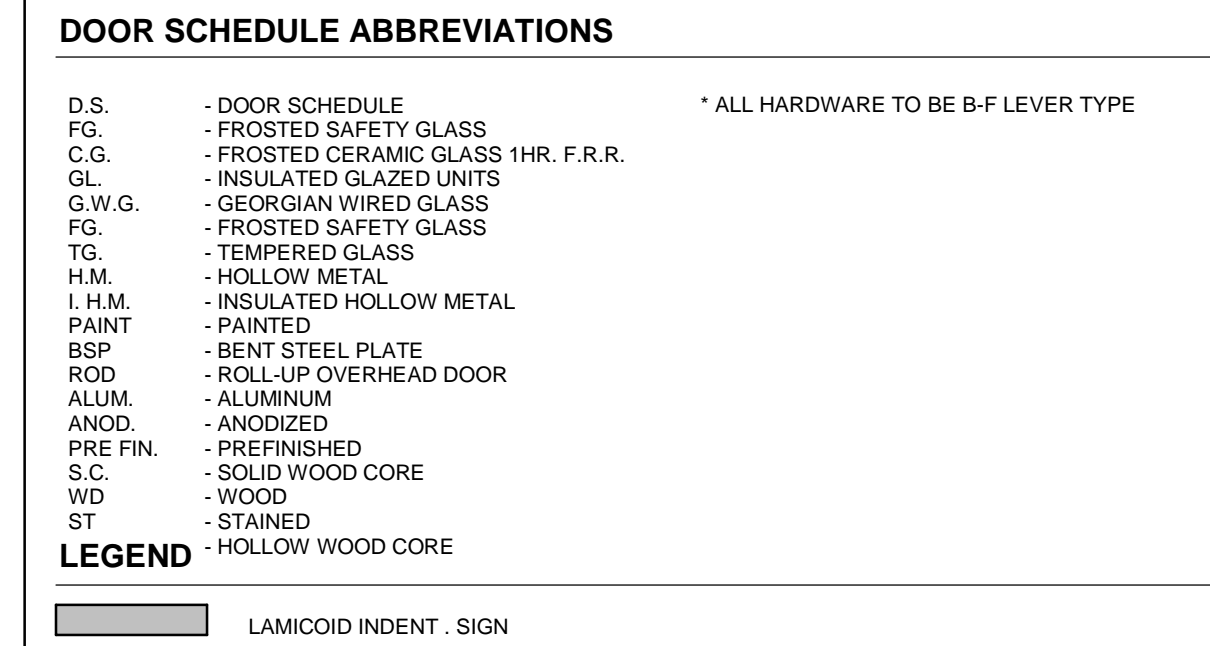
Project No./No. du projet  
60554372 Asset No. Sheet No./  
Feuille No.

Drawing Re No./No. du Dessin

A16



NOTE: RECESSED DOOR CONTACTS TO BE PROVIDED WITH ALL EXTERIOR DOORS FOR INTRUSION ALARM; COORDINATE WITH ELECTRICAL.



Plot Scale / Echelle		
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Drawn by/ Dessin par	Date	
JA	2017- 10- 05	
Field Recording by/ Releve- Ternoin par	Date	
Approved by/ Approuve par	Date	
RT	2017- 04- 06	
Checked by/ Verifie par	Date	
RT	2017- 04- 06	
Project No./No. du projet	Asset No.	Sheet No./ Feuille No.
60554372		
Drawing Re No./No. du Dessin		A 17



GENERAL NOTES:

- GENERAL NOTES**
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL, AND OTHER PROJECT DRAWINGS.
  - 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.
  - 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.
  - PROVIDE ALL NECESSARY PROFESSIONAL ENGINEER CERTIFIED SHORING, SCAFFOLDING AND UNDERPINNING TO EXECUTE THE PROJECT SAFELY.
  - MAKE GOOD ANY DAMAGES DONE DURING CONSTRUCTION.
  - 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.
  - THE CONTRACTOR SHALL SUPPLY, REMOVE AND TAKE RESPONSIBILITY FOR ALL TEMPORARY BRACING, EXCAVATION SUPPORT SYSTEM AND DEWATERING NECESSARY TO UNDERTAKE THE WORK.
  - ALL ASPECTS OF WORK SCHEDULING, ACCESSIBILITY AND LOGISTICS SHALL BE COORDINATED AND AGREED WITH THE OWNER PRIOR TO COMMENCEMENT.
  - DO NOT SCALE THESE DRAWINGS.
  - OMITTED DIMENSIONS ON FRAMING PLANS AND ELEVATIONS SCHEMATICS INDICATE MEMBERS EQUALLY SPACED BETWEEN DEFINED LINES.

EXCAVATION

- 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. REFERENCE TO THE GEOTECHNICAL REPORT FOR APPROXIMATE DEPTHS.
- FOLLOW THE EXCAVATION DIAGRAM FOR EXCAVATION DEPTHS.

CONSTRUCTION

- FORMWORK SHALL CONFORM TO THE REQUIREMENTS OF C.S.A. SPECIFICATION A23M AND A.C.I. SP 4.
- FORMWORK SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER OF THE PROVINCE OF ONTARIO, TO WITHSTAND ALL SUPERIMPOSED LOADS DURING CONSTRUCTION.
- SHORING, RE-SHORING, AND CONSTRUCTION LOADS SHALL BE CONTROLLED TO ENSURE THAT NO STRUCTURAL ELEMENT IS OVERSTRESSED.
- MAKE NECESSARY ALLOWANCE FOR FORMWORK CREEP AND DEFLECTION AND ADJUST ACCORDINGLY TO ACHIEVE THE ELEVATION FOR THE COMPLETION OF THE JOB.
- CONSTRUCTION JOINTS SHALL BE MADE AND LOCATED SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE.
- 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

- ALL PERTAINING SOILS INFORMATION AS PER GEOTECHNICAL REPORT BY GRI BLUE PLAN LIMITED, NO. 217291, DATED OCTOBER 2017 (AND SUBSEQUENT REVISIONS), SHALL BE USED.
- ALL EXTERIOR FOOTINGS SHALL BE CARRIED DOWN AT LEAST 150mm BELOW FINISHED GRADE FOR FROST PROTECTION UNLESS NOTED OTHERWISE.
- PROTECT FOUNDATIONS, WALLS, SLABS ON GRADE, GRADE BEAMS, FOOTINGS AND ADJACENT SOIL AGAINST FREEZING AND FROST ACTION AT ALL TIMES DURING CONSTRUCTION.
- ALL FOOTINGS SHALL BE PLACED ON COMPETENT BEARING STRATA, AS DESCRIBED ABOVE, 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.
- 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.
- IF THE BEDROCK IS NOT EXPOSED DURING THE EXCAVATION, FOOTINGS MAY BEAR DIRECTLY ON THE COMPETENT CLAYEY SILT TILL AT THE SPECIFIED DEPTHS.
- 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 EQUIVALENT ENGINEERED FILL).
- ENGINEERED STRUCTURAL FILL SHALL BE USED AS BACK-FILL AGAINST THE FOUNDATION WALLS 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% SPMD TO THE PROPOSED SUB-GRADE ELEVATIONS.
- DO NOT BACKFILL AGAINST WALLS RETAINING EARTH UNTIL ELEMENTS PROVIDING LATERAL SUPPORT ARE COMPLETED. PLACE BACKFILL SIMULTANEOUSLY ON BOTH SIDES OF WALLS BELOW GRADE.
- 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.
- ALL COLUMNS, PIERS AND WALL FOOTINGS SHALL BE CENTERED ON THE COLUMN, PIER OR WALL RESPECTIVELY UNLESS NOTED.
- REFER TO ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND CIVIL DRAWINGS FOR DIMENSIONS, ELEVATIONS, DETAILS AND LOCATIONS OF SLAB DEPRESSIONS, SLOPES, TRENCHES, ETC.
- PROVIDE A 20mm CHAMFER AT EXPOSED CORNERS.
- PROVIDE TEMPORARY SHORING, ETC., ADEQUATE TO SUPPORT EXISTING STRUCTURES DURING CONSTRUCTION.
- REMOVAL ALL TOP SOIL, ORGANIC AND LOOSE MATERIAL FROM THE BUILDING ADDITION ENVELOPE AS DIRECTED BY GEOTECHNICAL ENGINEER.

CONCRETE

- CONCRETE CONSTRUCTION SHALL CONFORM TO ALL C.S.A. A23 SERIES STANDARDS.
- MINIMUM CONCRETE STRENGTH AFTER 28 DAYS SHALL BE AS FOLLOWS: 10 MPa CLASS N, FOR LEAN CONCRETE FILL OR MUD SLAB, 20 MPa CLASS N, FOR FOOTINGS, 25 MPa CLASS F-2, FOR FOUNDATION WALLS AND PIERS, 25 MPa CLASS N, FOR INTERIOR SLAB-ON-GRADE & COMPOSITE SLAB, 32 MPa CLASS C-2, FOR EXTERIOR SLAB-ON-GRADE.
- REINFORCING STEEL SHALL BE PROPERLY SUPPORTED WITH WIRE BAR SUPPORTS. MINIMUM CONCRETE COVER SHALL BE AS FOLLOWS: SURFACES CAST AGAINST EARTH, 75mm, FORMED SIDES OF WALLS, 40mm, TOP SURFACE OF SLAB, 50mm.
- USE PORTLAND TYPE GU GU FOR ALL CONCRETE UNLESS NOTED OTHERWISE.
- JOINT CHAMFER: ALL FLUSH CONCRETE SURFACES MEETING AT JOINTS IN VISIBLE LOCATIONS SHALL BE FORMED WITH A 'V' SHAPED REGLET AT FACE (20mm DEEP).
- FILL AND REFINISH ALL VOIDS, FORM-WIRE LOCATIONS ETC.
- 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 H-MOD BY Sika OR ENGINEER APPROVED EQUAL.
- 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

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

SLAB-ON-GRADE

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

MASONRY

- ALL MASONRY RELATED DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING CAN/CSA STANDARDS: S304.1 DESIGN OF MASONRY STRUCTURES, A165 SERIES STANDARDS ON CONCRETE MASONRY UNITS, A175 MORTAR AND GROUT FOR UNIT MASONRY, A370 CONNECTORS FOR MASONRY, A371 MASONRY CONSTRUCTION FOR BUILDINGS, C30.18 BILLET STEEL BARS FOR CONCRETE REINFORCING, G30.3 COLD DRAWN STEEL WIRE FOR CONCRETE REINFORCING, G164 HOT DIP GALVANIZING OF IRREGULARLY SHAPED ARTICLES.
- CONCRETE BLOCK SHALL BE NORMAL WEIGHT, METRIC MODULAR, MOISTURE CONTROLLED UNITS TO CSA A165.1, TYPE H15/A/M WITH A MINIMUM COMPRESSIVE STRENGTH OF 15 MPa BASED ON THE NET AREA.
- TYPE 'S' MORTAR TO BE USED THROUGHOUT.
- REINFORCING SHALL BE NEW H-BOND DEFORMED BARS WITH MINIMUM Fy=400 MPa. MINIMUM LAP FOR REINFORCING TO BE 36x BAR DIA.
- HORIZONTAL MASONRY REINFORCEMENT TO BE AS PER CONCRETE BLOCK WALL REINFORCING SCHEDULE. USE APPROVED STANDARD LADDER DESIGN, GALVANIZED CONTINUOUS REINFORCEMENT. USE DUR-O-WAL DW 100 STANDARD (3.66mm DIA. WIRES) OR APPROVED EQUAL. IT MUST BE PLACED HORIZONTALLY IN THE JOINTS AT NOT MORE THAN 400mm OC VERTICALLY. REINFORCEMENT SHALL BE INSTALLED IN THE FIRST AND SECOND BED JOINTS 200mm APART, IMMEDIATELY ABOVE LINTELS AND BELOW SILLS. REINFORCEMENT IN THE SECOND BED JOINT ABOVE LINTELS AND BELOW SILLS SHALL EXTEND 600mm. BEYOND THE JAMB. ALL OTHER REINFORCEMENT SHALL BE CONTINUOUS AND SIDE RODS SHALL BE LAPPED FOR 200mm MIN.
- REINFORCING SHALL BE PLACED IN THE CENTRE OF THE BLOCK CORES UNLESS INDICATED OTHERWISE. ALL VERTICAL BARS ARE TO HAVE MATCHING LAPPING DOWELS, 1300mm LONG, EMBEDDED 650mm INTO THE FOUNDATION WALLS.
- GROUT SHALL BE COARSE WITH MIN. 28 DAY COMPRESSIVE STRENGTH OF 15 MPa. GROUT SLUMP TO BE 200mm TO 250mm. GROUTING SHALL BE DONE IN LOW LIFTS WITH VIBRATING OR 'RODDING' GROUT TO ENSURE THAT ALL VOIDS ARE FILLED AND REINFORCING IS FULLY ENCASED.
- ALL MASONRY UNDER CONCENTRATED LOADS SHALL HAVE VOIDS FILLED WITH 20 MPa CONCRETE FOR DEPTH AND WIDTH EQUAL TO 3 TIMES THE LENGTH OF BEARING.
- ALL MASONRY WALLS SHALL BE PROPERLY SHORED DURING CONSTRUCTION UNTIL STRUCTURAL STEEL AND/OR SLABS ARE IN PLACE.

- STEEL BEAMS AND LINTELS SHALL HAVE 200mm MIN. END BEARING ON MASONRY UNLESS INDICATED OTHERWISE.
- ALL MASONRY WALLS TO BE CONSTRUCTED WITH FULL MORTAR JOINTS.
- PROVIDE VERTICAL MASONRY CONTROL JOINTS AT MAX. SPACING OF 2X WALL HEIGHT OR 6m O.C. WHICHEVER IS LESS. REFER TO DRAWINGS FOR SPECIAL REQUIREMENTS. PLACE CONTROL JOINTS AT EDGES FOR WINDOWS OR DOORS WHERE POSSIBLE OR FEASIBLE.
- INTERSECTING MASONRY BLOCK WALLS OR PARTITIONS SHALL BE BONDED BY OVERLAPPING HALF OF THE UNITS OF ONE WALL WITH THE UNITS IN THE OTHER WALL FOR A MINIMUM DISTANCE EQUAL TO THE THICKNESS OF THE THINNER WALL.
- HORIZONTAL AND VERTICAL LATERAL SUPPORT ANCHORS SPACING AS PER A370 "CONNECTORS FOR MASONRY" STANDARD AND/OR INFORMATION SHOWN ON DRAWINGS.
- PROVIDE LINTELS AS SPECIFIED OVER ALL OPENINGS IN MASONRY WALL AS SHOWN OR AS REQUIRED. REFER TO DRAWINGS FOR SIZES AND LOCATIONS OF OPENINGS AND RECESSES. WHERE LINTELS ARE NOT SHOWN PROVIDE THEM IN ACCORDANCE WITH STANDARD SCHEDULE.
- VERTICAL REINFORCING IN FULLY GROUTED CORE FOR WALLS SHALL BE AT THE SPACINGS DESIGNATED, AND IN ADDITION, SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS: PROVIDE ONE VERTICALLY REINFORCED CELL WITH 1-15M, FULL HEIGHT, EACH SIDE OF DOOR JAMBS, EACH SIDE OF WALL OPENINGS OR WINDOW OPENINGS, EACH SIDE OF A CORNER, EACH SIDE OF A WALL INTERSECTION, AND EACH SIDE OF A CONTROL JOINT. PROVIDE TWO VERTICALLY REINFORCED CELLS WITH 1-15M PER CELL, FULL HEIGHT, AT A WALL END. ALL 15M VERTICAL BARS ARE TO HAVE MATCHING, LAPPING, 15M DOWELS, 1300mm LONG, EMBEDDED 650mm INTO THE FOUNDATION WALLS.
- BOND BEAM COURSES WITH VERTICAL REINFORCING INTERSECTING, SHALL CONSIST OF STANDARD UNITS WITH SAW-CUT WEBS TO ACCOMMODATE HORIZONTAL REINFORCING BARS. ALL BOND BEAMS TO HAVE 1-15M BAR MINIMUM. IN A FULLY GROUTED BOND BEAM COURSE, PROVIDE BOND BEAMS AT THE FOLLOWING LOCATIONS FOR ALL LOADBEARING WALLS: TOP OF WALL, AT ANCHORED ANGLE FOR STEEL DECK SUPPORT, BOTTOM OF WALL, AT OTHER LOCATIONS SHOWN ON THE DRAWINGS, AND AT A MINIMUM OF EVERY 2400mm VERTICALLY.
- CONCRETE MASONRY BLOCK WALLS ARE TO BE REINFORCED AS NOTED ABOVE, AND AS FOLLOWS: HUB BUILDING LOADBEARING EXTERIOR WALLS ABOVE FOUNDATION WALLS (ALL WALLS TO HAVE HORIZONTAL JOINT REINFORCEMENT EVERY SECONDCOURSE) 190mm BLOCK EXTERIOR WALLS ABOVE FOUNDATION WALLS 15M BARS VERTICAL AT 600mm O.C. MINIMUM. HUB BUILDING LOADBEARING INTERIOR WALLS (ALL WALLS TO HAVE HORIZONTAL JOINT REINFORCEMENT EVERY SECOND COURSE) 190mm BLOCK INTERIOR WALLS 15M BARS VERTICAL AT 600mm O.C. MINIMUM. HUB BUILDING NON-LOADBEARING INTERIOR PARTITION WALLS (ALL WALLS TO HAVE HORIZONTAL JOINT REINFORCEMENT EVERY SECOND COURSE) 190mm BLOCK INTERIOR WALLS 15M BARS VERTICAL AT 600mm O.C. MINIMUM.

STRUCTURAL STEEL

- 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.
- 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.
- FOR LOCATIONS OF DOOR FRAMES, WALL OPENINGS, AND ROOF OPENINGS, ETC. AND RELATED DETAILS, SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
- THE MINIMUM END CONNECTION OF ANY MEMBER SHALL BE MADE WITH TWO(2) A325 BOLTS OR EQUIVALENT WELD.
- ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CSA G40.21M GRADE 300W, UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL STEEL 'W' SHAPES SHALL CONFORM TO CSA G40.21M GRADE 350W.
- ALL HOLLOW STRUCTURAL STEEL SECTIONS SHALL CONFORM TO CSA G40.21M GRADE 350W - CLASS H.
- FABRICATION, ERECTION AND WORKMANSHIP SHALL CONFORM TO CAN/CSA S16-01.
- 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.
- WELDING ELECTRODES SHALL BE E49XX.
- SURFACES TO BE WELDED SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATTER INCLUDING PAINT FILM.
- ALL JOINTS SHALL BE WELDED USING E49XX ELECTRODES OR BEARING TYPE CONNECTIONS USING M20 ASTM A325M HIGH STRENGTH BOLTS, UNLESS NOTED.
- 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.
- FOR PRIME PAINTING / PAINTING OF STRUCTURAL STEEL REFER TO SPECS. TOUCH-UP DAMAGED AREAS IN FIELD WITH SAME SYSTEM.
- ANCHOR BOLTS CONFORMING TO ASTM A307.
- 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/m<sup>2</sup> m.

ANCHOR TYPES

- 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.
  - 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 HIT-HYB 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.
- ANCHOR TYPE 3: (TO HOLLOW BLOCK)**  
HILTI HIT-HY70 ADHESIVE ANCHOR SYSTEM, USING 13mm DIAMETER THREADED RODS, BASED ON A HIT SHORT 51mm EMBEDMENT INTO THE CENTRE OF THE BLOCK FACE SHELL. FOR AN ALLOWABLE (UNFACTORED) SHEAR LOAD OF 3.0 kN PER ANCHOR.
- ANCHOR TYPE 4: (TO FULLY GROUTED BLOCK)**  
HILTI HIT HY 150HIT-ICE INJECTION ADHESIVE ANCHOR SYSTEM, USING 13mm DIAMETER HAS-E THREADED ROD ANCHOR, BASED ON A 108mm EMBEDMENT INTO THE FULLY GROUTED MASONRY BLOCK. FOR AN ALLOWABLE (UNFACTORED) SHEAR LOAD OF 10 kN AND TENSION LOAD OF 8 kN PER ANCHOR.
- ANCHOR TYPE 5: (TO FULLY GROUTED BLOCK)**  
HILTI HIT HY 150HIT-ICE INJECTION ADHESIVE ANCHOR SYSTEM, USING 19mm DIAMETER HAS-E THREADED ROD ANCHOR, BASED ON AN 168mm EMBEDMENT INTO THE FULLY GROUTED MASONRY BLOCK. FOR AN ALLOWABLE (UNFACTORED) SHEAR LOAD OF 24 kN AND TENSION LOAD OF 16 kN PER ANCHOR.

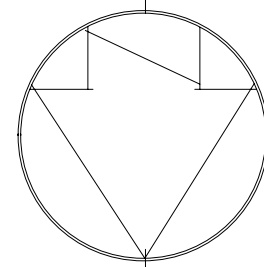
WOOD FRAMING

- SAWN TIMBER SHALL BE IN ACCORDANCE WITH: -CSA STANDARDS CAN/CSA-096-14, "ENGINEERING DESIGN IN WOOD" -THE CANADIAN WOOD COUNCIL "WOOD DESIGN MANUAL 2015" -THE NBCC 2015 -THE CBC 2012
- ALL GLULAM SHALL BE SPRUCE-PINE 20K-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.
- THE WOOD GLULAM CONNECTIONS SHALL BE IN ACCORDANCE WITH CSA STANDARD CAN/CSA-096-14 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.
- ALL STRUCTURAL COMPOSITE LUMBER, SUCH AS LAMINATED VENEER LUMBER (LVL), SHALL BE DESIGNED IN ACCORDANCE WITH CSA STANDARD CAN/CSA-096-14 "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.
- THE ROOF PLANK DECKING SHALL BE TONGUE AND GROOVE 38mm THICK S-P-F, COMMERCIAL GRADE, INSTALLED IN A CONTROLLED RANDOM PATTERN. THE ROOF PLANK DECKING IS TO BE DESIGNED AND CONNECTED TO ACT AS A DIAPHRAGM TO TRANSFER LATERAL SHEAR FORCES TO THE BEARING ELEMENTS. CONNECT TO LOADBEARING WALLS FOR A MINIMUM FACTORED SHEAR OF 3.5 kN/m. FOR THE ROOF PLANK DECKING COATING REQUIREMENTS, REFER TO THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- ALL OTHER WOOD FRAMING SHALL BE GRADE S-P-F NO.1/2 OR BETTER, U.N.O.
- ALL TIMBER SHALL BE WELL SEASONED OR KILN DRIED TO PREVENT POSSIBLE DISTORTION OF THE FRAMING.
- PROVIDE METAL TIE-DOWN ANCHORS TO THE ROOF JOISTS FOR THE NET FORCES DUE TO UPLIFT.
- THE STRUCTURAL SYSTEM SHALL BE ADEQUATELY BRACED BY THE CONTRACTOR DURING ERECTION.
- BUILT-UP LINTEL BEAMS SHALL BE IN ACCORDANCE WITH THE CANADIAN WOOD COUNCIL WOOD DESIGN MANUAL 2015.
- ALL SAWN TIMBER CONNECTORS SUCH AS STEEL BRACKETS, SEATS, ANCHORS, AND THRU-BOLTS, SHALL BE GALVANIZED.

DESIGN NOTES:

ENVIRONMENTAL LOADS FOR WARTON, ONTARIO:

- BUILDING IMPORTANCE CATEGORY, NORMAL
- 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).  
  
ONE DAY RAIN (1/50): 103mm  
  
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).  
  
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 = 0.03g  
  
SOIL SITE CLASS 'D'  
  
**BUILDING LOADS:**  
  
6. ROOF DEAD LOAD:  
  
METAL ROOFING 0.15 kPa  
ICE SHIELDS/INSULATION/GIRTS 0.25 kPa  
38mm PLANK DECKING 0.30 kPa  
GLULAM PURLINS 0.10 kPa  
GLULAM BEAMS 0.20 kPa  
ADDITIONAL LOAD ALLOWANCE 0.30 kPa  
  
TOTAL DL: 1.30 kPa  
  
7. HUB LIVE LOAD = 4.8 kPa  
8. HUB MEZZANINE LIVE LOAD = 4.8 kPa



PROJECT NORTH

DRAWING NO. DRAWING NAME

REFERENCE DRAWINGS

0	2018- 06- 19	ISSUED FOR TENDER	JA	RB	
NO.	DATE	DESCRIPTION	Drawn By/ Dessine par	Approved Approuve	

REVISIONS

<b>A</b>	A Detail Number	A Numero de Detail
<b>B</b>	B Sheet Number	B Sur feuille Numero

LINEAR DIMENSIONS IN MILLIMETERS Dimensions lineaires en millimetres



Canada

PARKS CANADA

Type of Record / Type d'enregistrement

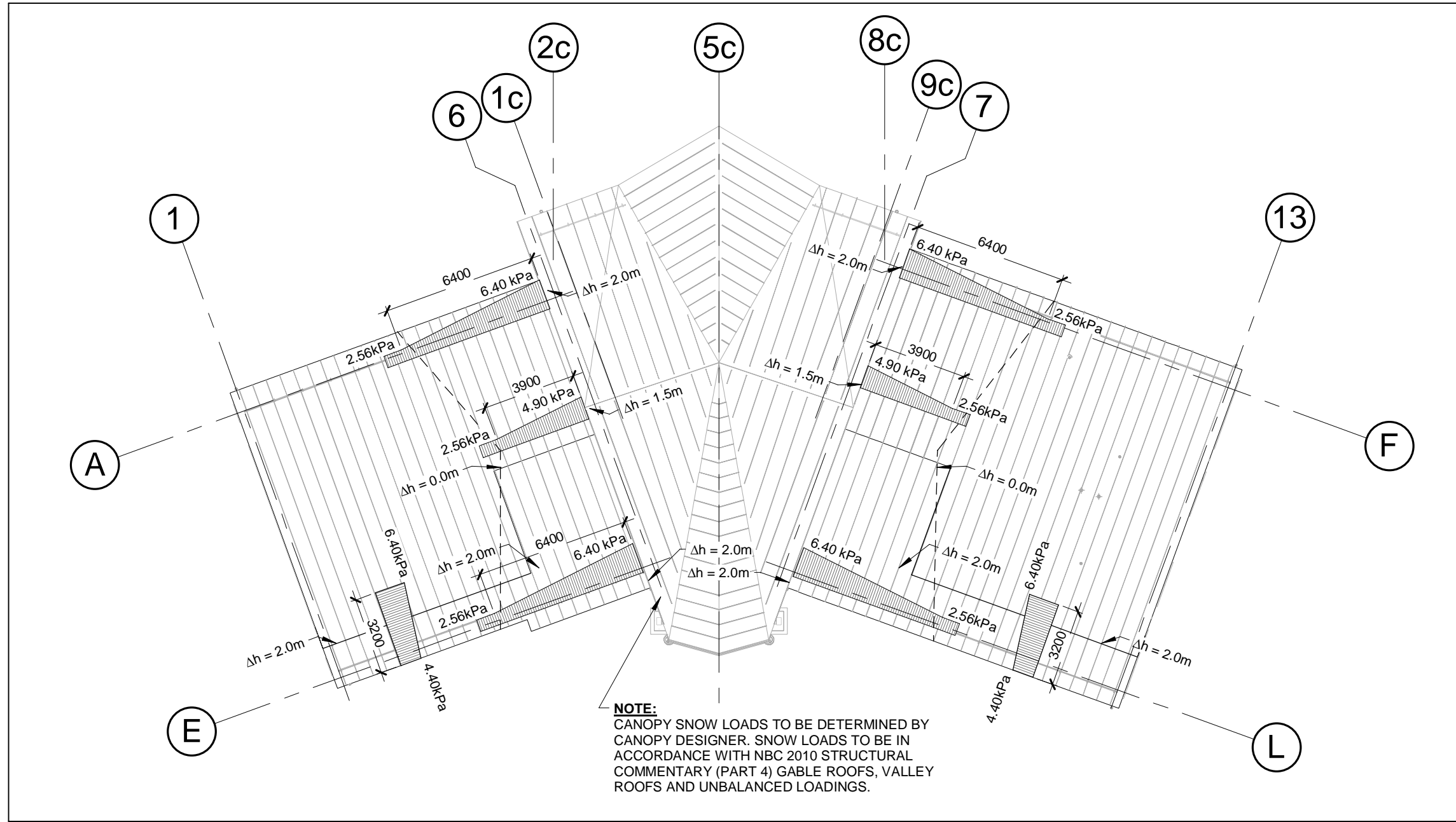
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**CYPRUS LAKE CAMPGROUND - THE HUB AMENITY BUILDING**

Drawing title / Titre du Dessin  
**STRUCTURAL - GENERAL NOTES AND DESIGN NOTES**

Plot Scale / Echelle As indicated	Date
Drawn by/ Dessin par JA	2017- 03- 22
Field Recording by/ Relevé- Terrain par -	Date -
Approved by/ Approuve par AW	Date 2018- 05- 31
Checked by/ Verifie par MM	Date 2018- 05- 31

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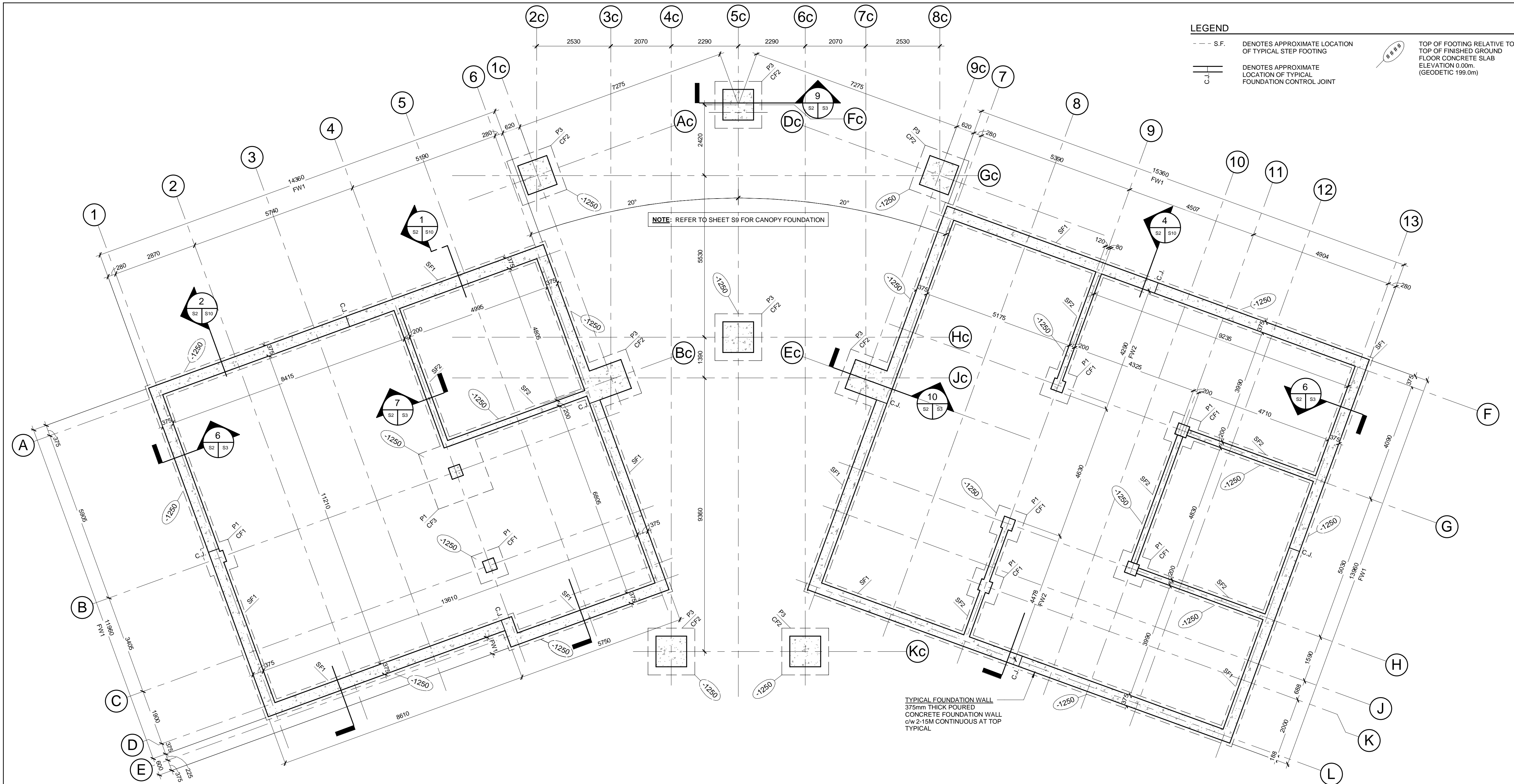
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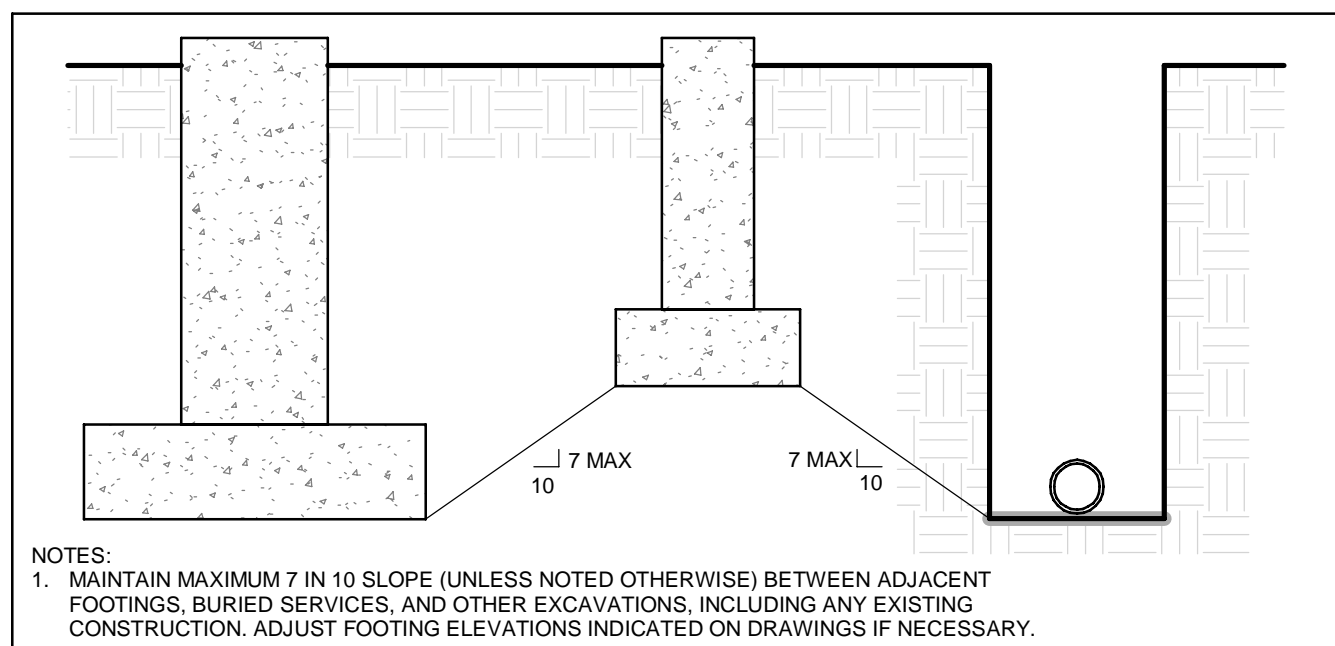
**1 SNOW LOAD PLAN**

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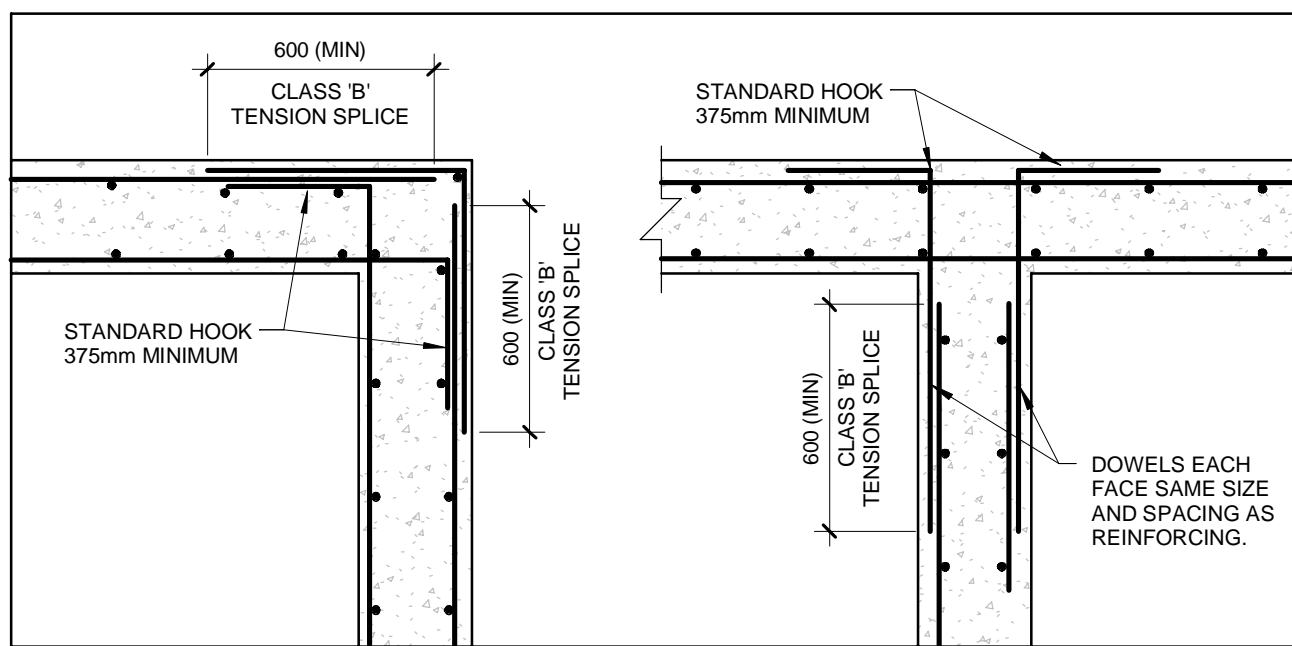


1 FOUNDATION PLAN  
A7/B2 1:75



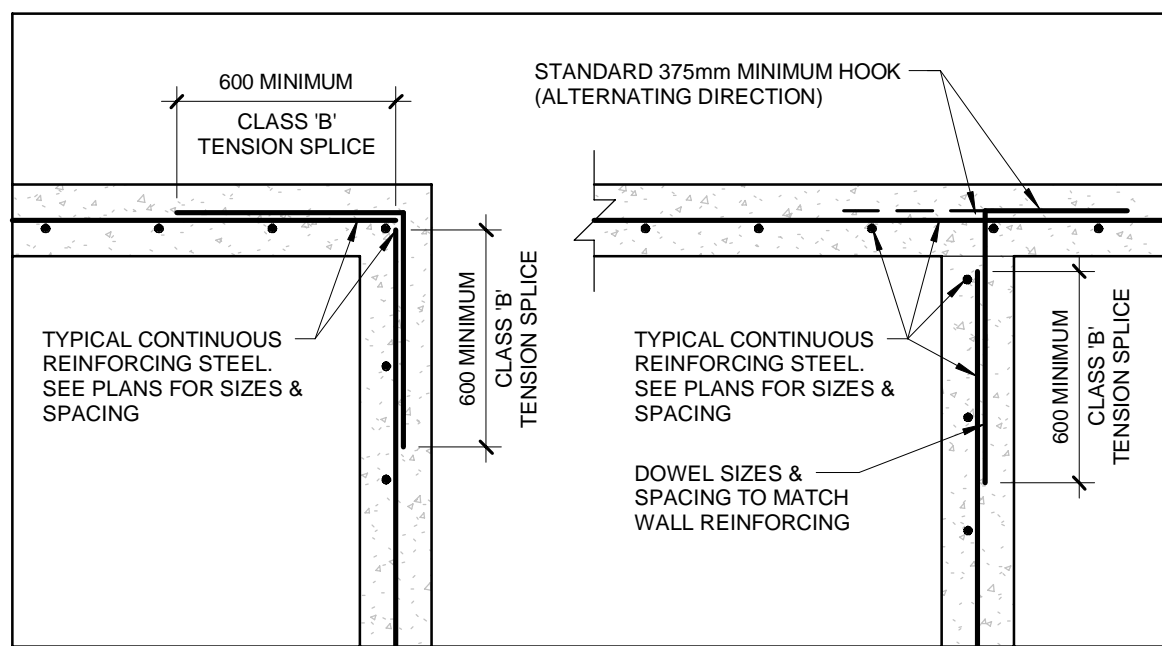
2 ADJACENT FOOTINGS AND EXCAVATIONS  
S2 1:25

CONCRETE STRIP WALL FOOTING SCHEDULE				
TYPE	WIDTH	LENGTH	THICKNESS	REINFORCEMENT
SF1	570	--	250	4-15M CONTINUOUS AT BOTTOM REFER TO DETAIL 6/S3
SF2	400	--	250	3-15M CONTINUOUS AT BOTTOM REFER TO DETAIL 7/S3

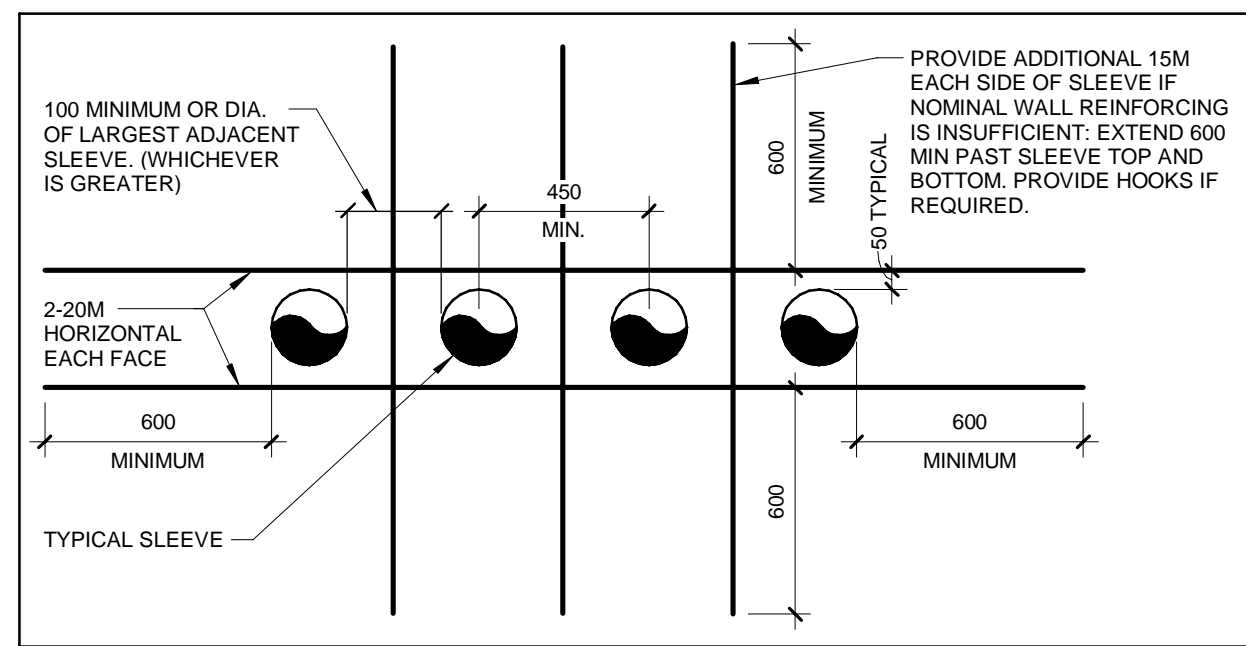


3 TWO LAYER WALL REINFORCING  
S2 1:20

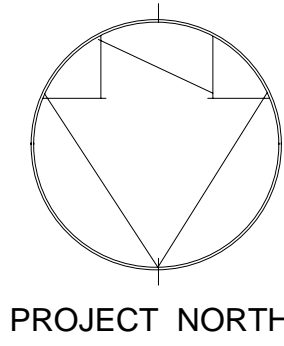
CONCRETE FOUNDATION WALL SCHEDULE				
TYPE	WIDTH	LENGTH	THICKNESS	REINFORCEMENT
FW1	375	--	--	15M AT 600 O.C. VERTICAL DOWELS FOR MASONRY WALL REFER TO DETAIL 6/S3
FW2	200	--	--	



4 ONE LAYER WALL REINFORCING  
S2 1:20



5 SLEEVES THROUGH WALLS  
S2 1:20



DRAWING NO. DRAWING NAME

REFERENCE DRAWINGS

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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  
CAMPGROUND - THE  
HUB AMENITY BUILDING**

Drawing title / Titre du Dessin  
**STRUCTURAL -  
FOUNDATION PLAN &  
DETAILS**

Plot Scale / Echelle  
As indicated

Drawn by/ Dessin par Date  
JA 2017-03-22

Field Recording by/  
Releve- Terrain par Date  
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Approved by/ Approuvé par Date  
AW 2018-05-31

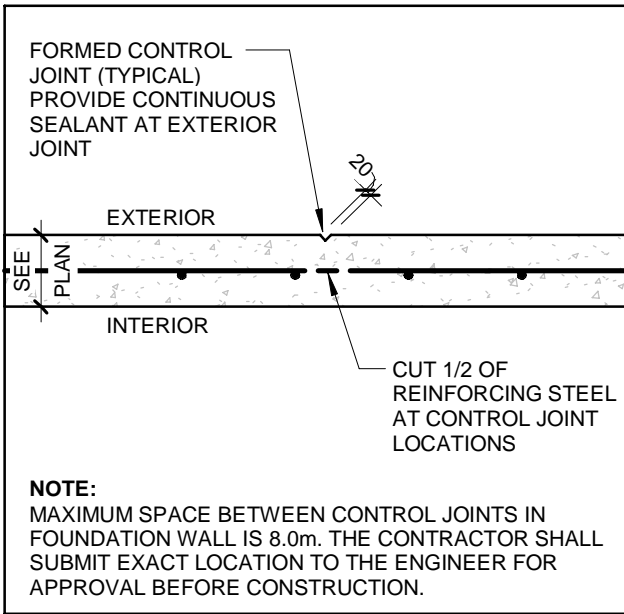
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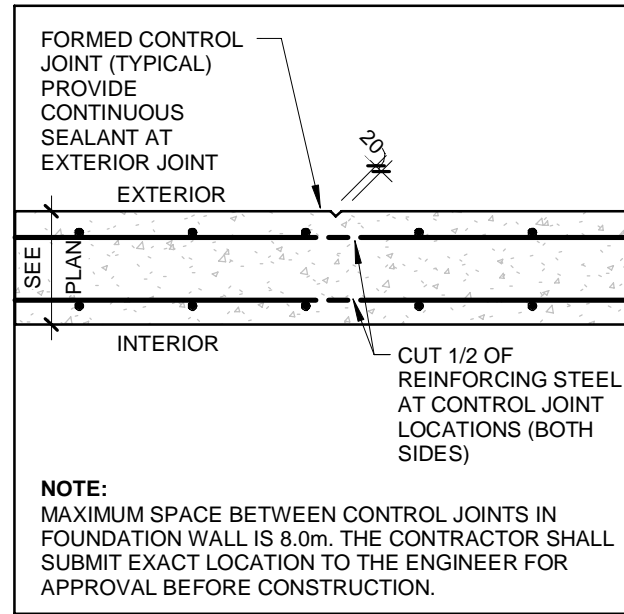
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S2

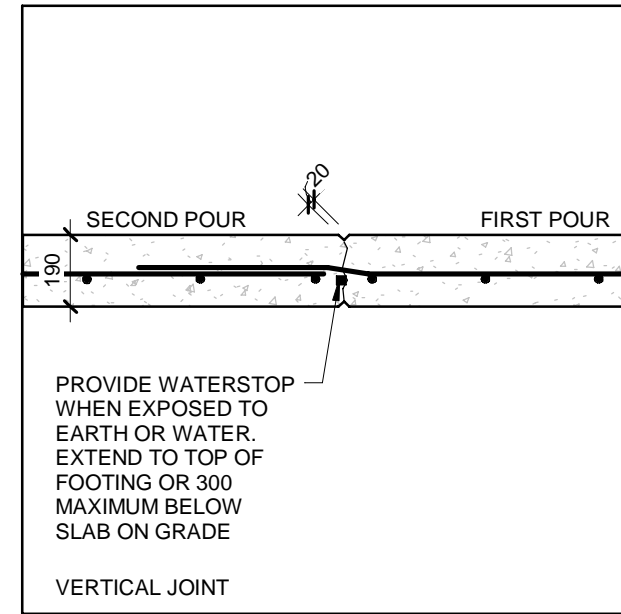




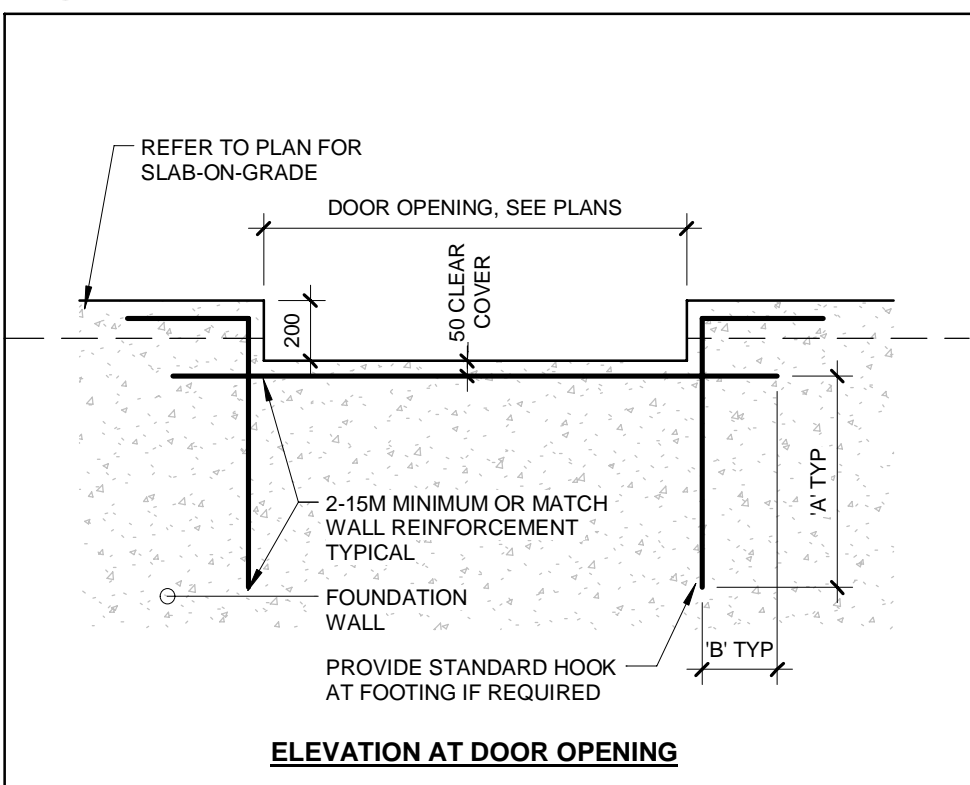
1 WALL CONTROL JOINT  
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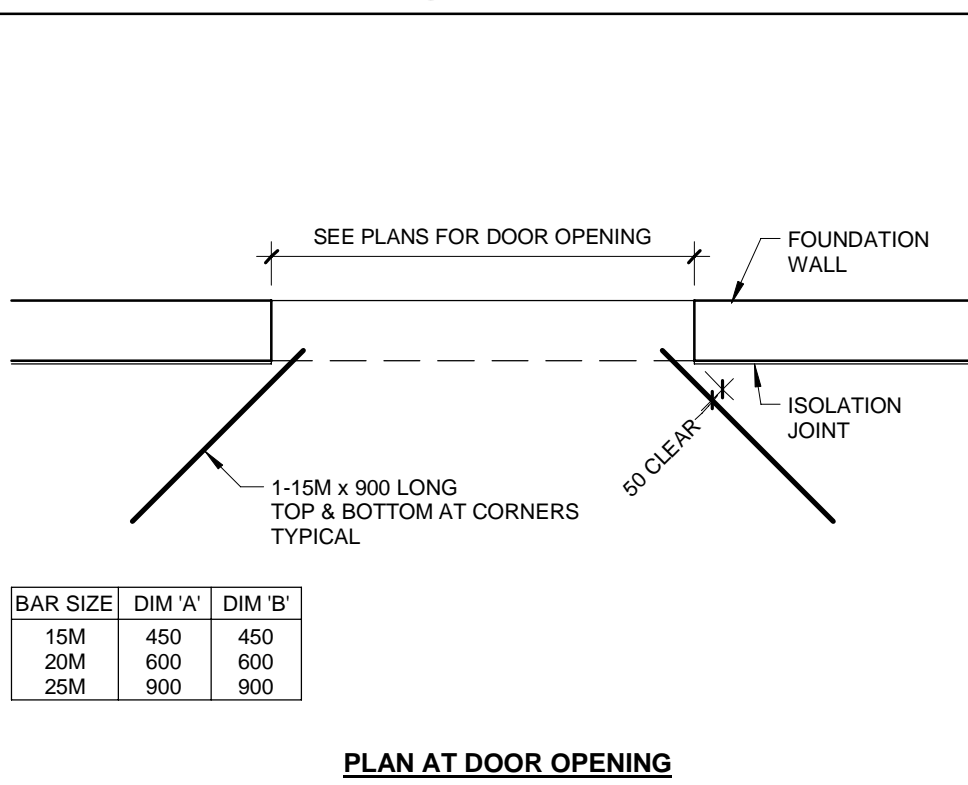
2 WALL CONSTRUCTION JOINT  
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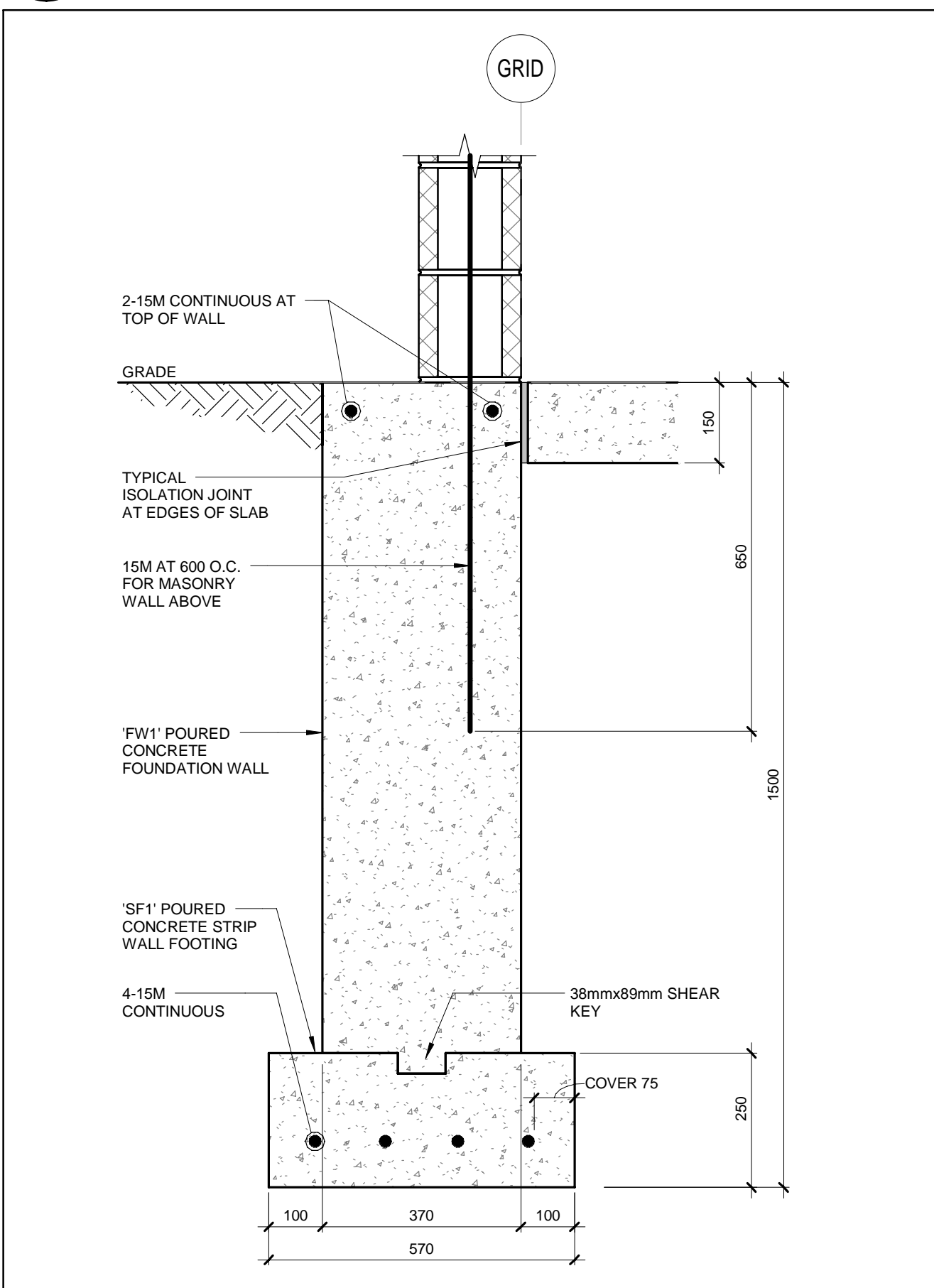
3 FOOTING OVER PIPE  
1:20



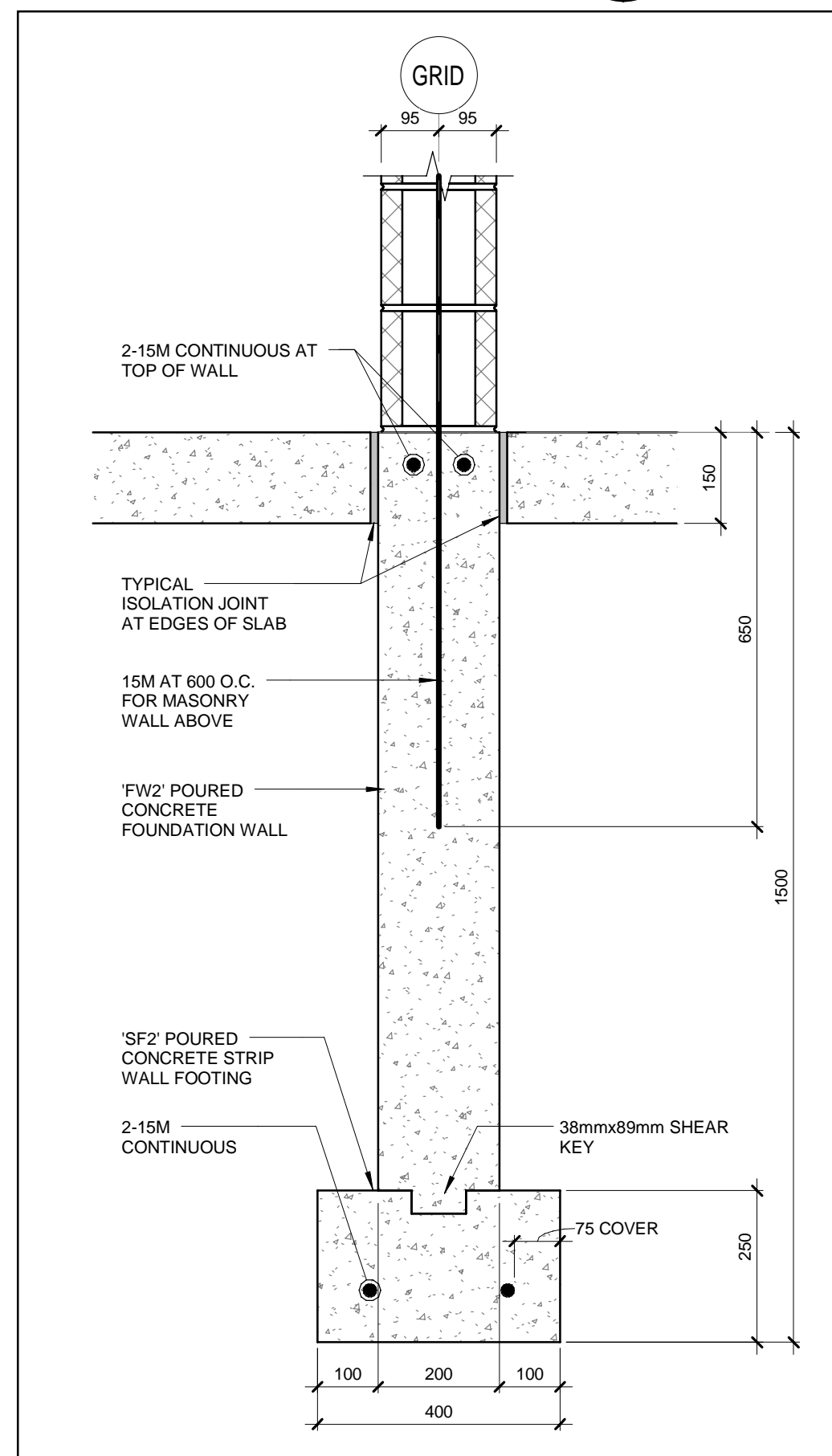
4 REINFORCING AT DOOR SILL  
1:25



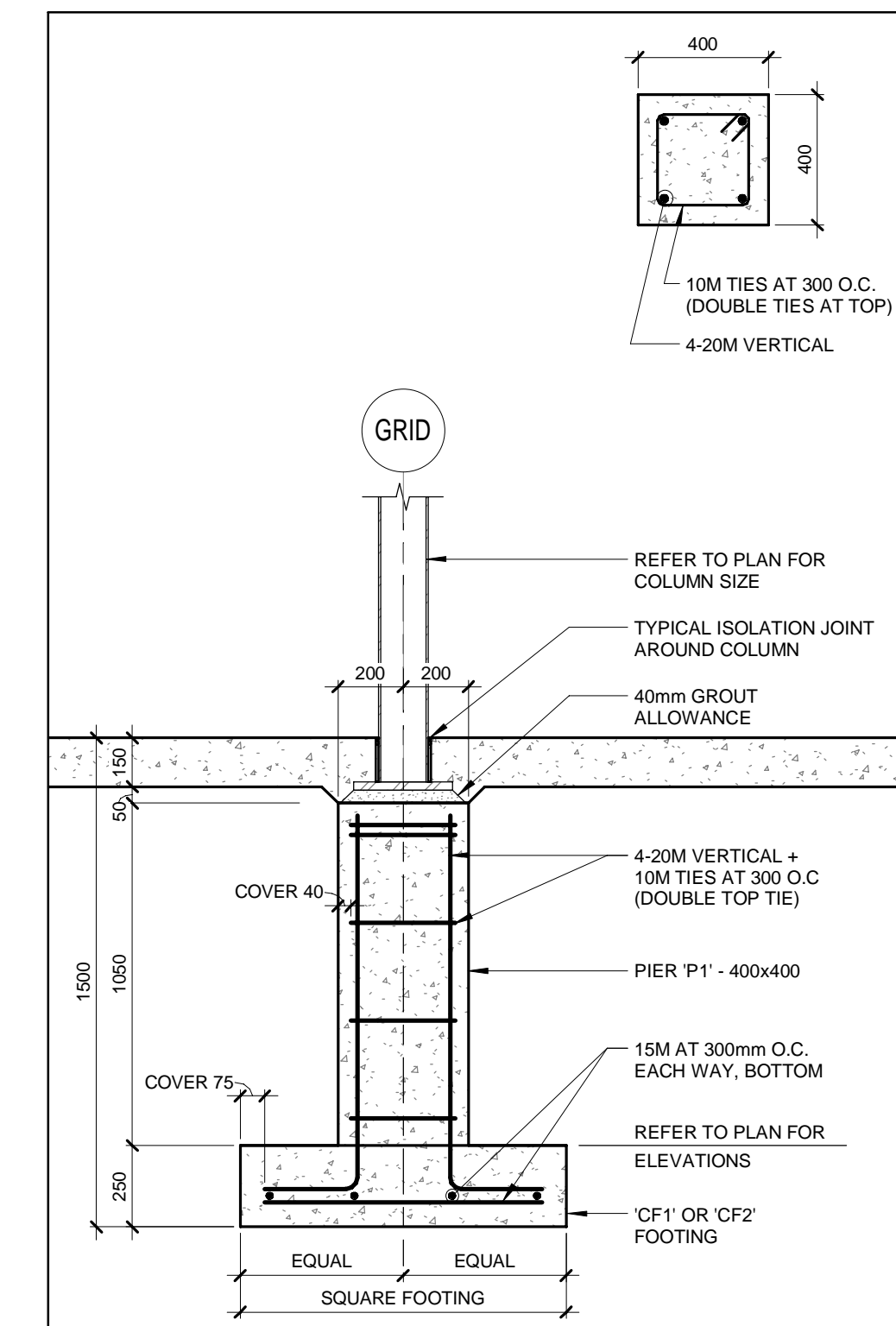
5 ANCHOR BOLT DETAIL  
1:20



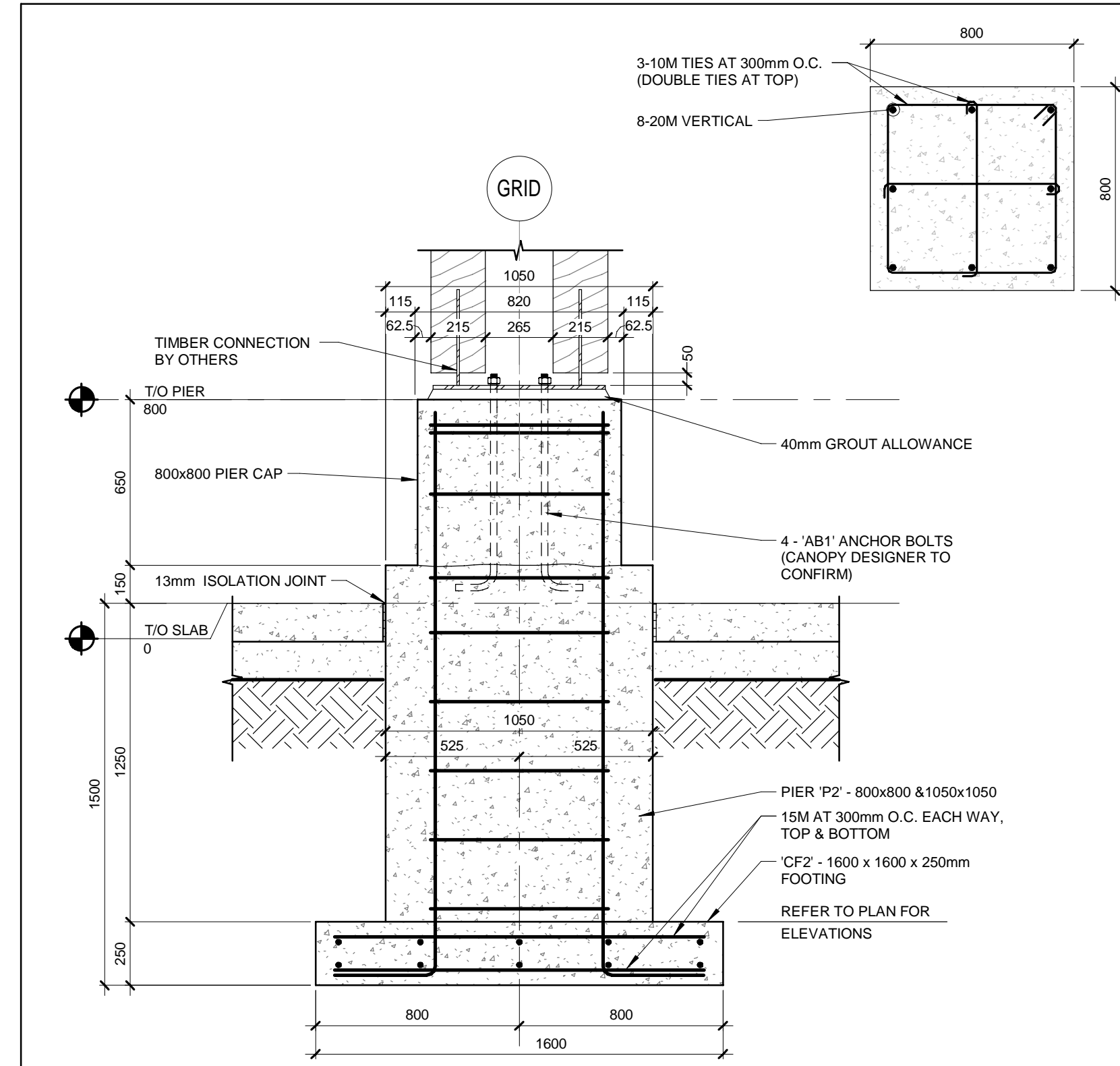
6 "FW1" FOUNDATION WALL  
1:10



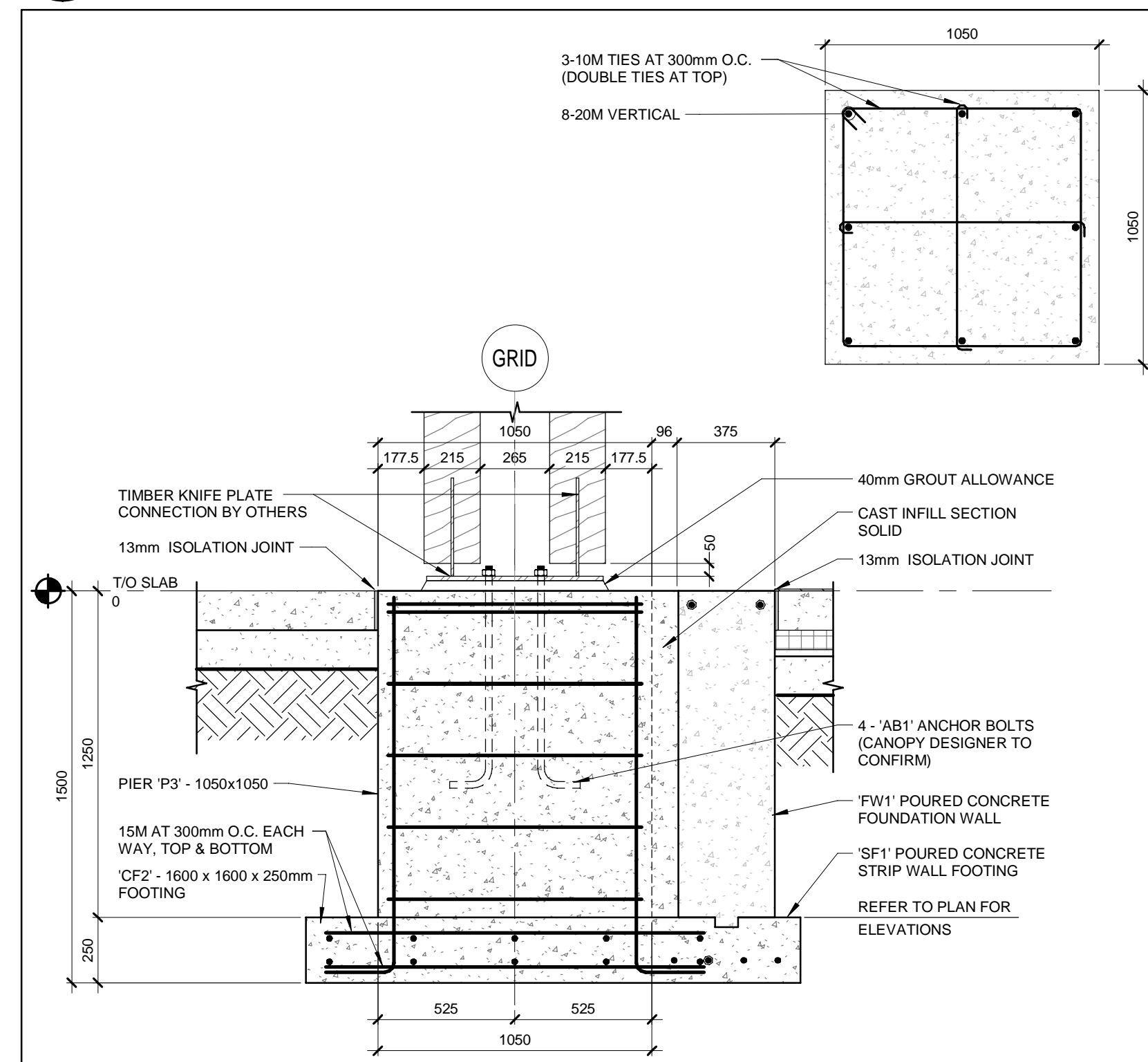
7 "FW2" FOUNDATION WALL  
1:10



8 BUILDING SPREAD FOOTING PIER 'P1',  
FOOTINGS 'CF1' & 'CF3'  
1:20



9 CANOPY FOUNDATION: PIER 'P2', FOOTING 'CF2'  
1:20



10 CANOPY FOUNDATION AT WALL: PIER 'P3', FOOTING 'CF2'  
1:20

DRAWING NO.	DRAWING NAME

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0	2018- 06- 19	ISSUED FOR TENDER	JA	RB
NO.	DATE	DESCRIPTION	Drawn By/ Dessine par	Approved Approuve

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

LINEAR DIMENSIONS IN MILLIMETERS	Dimensions lineaires en millimetres
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Canadä

PARKS CANADA

Type of Record /  
Type d'enregistrement

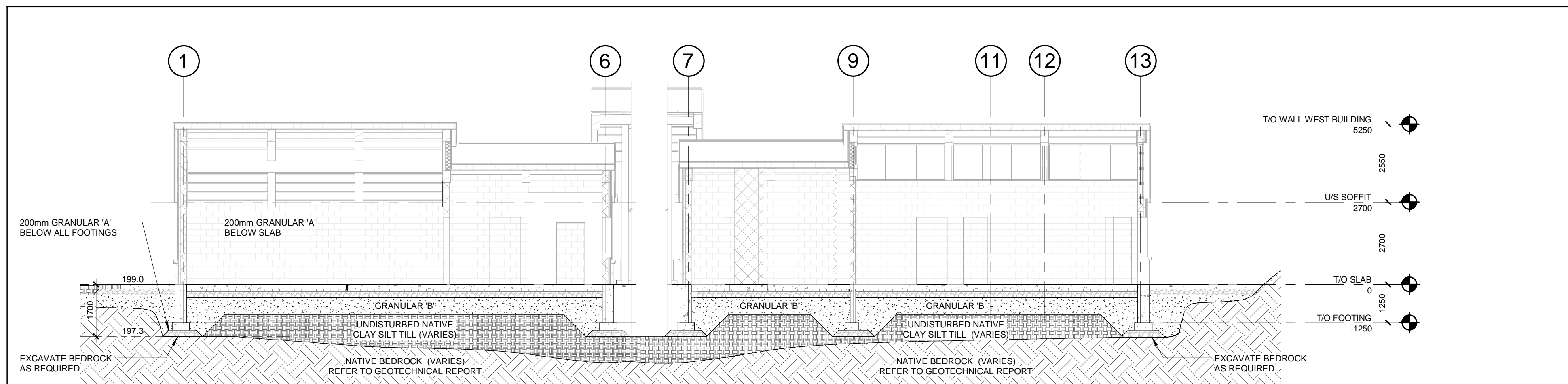
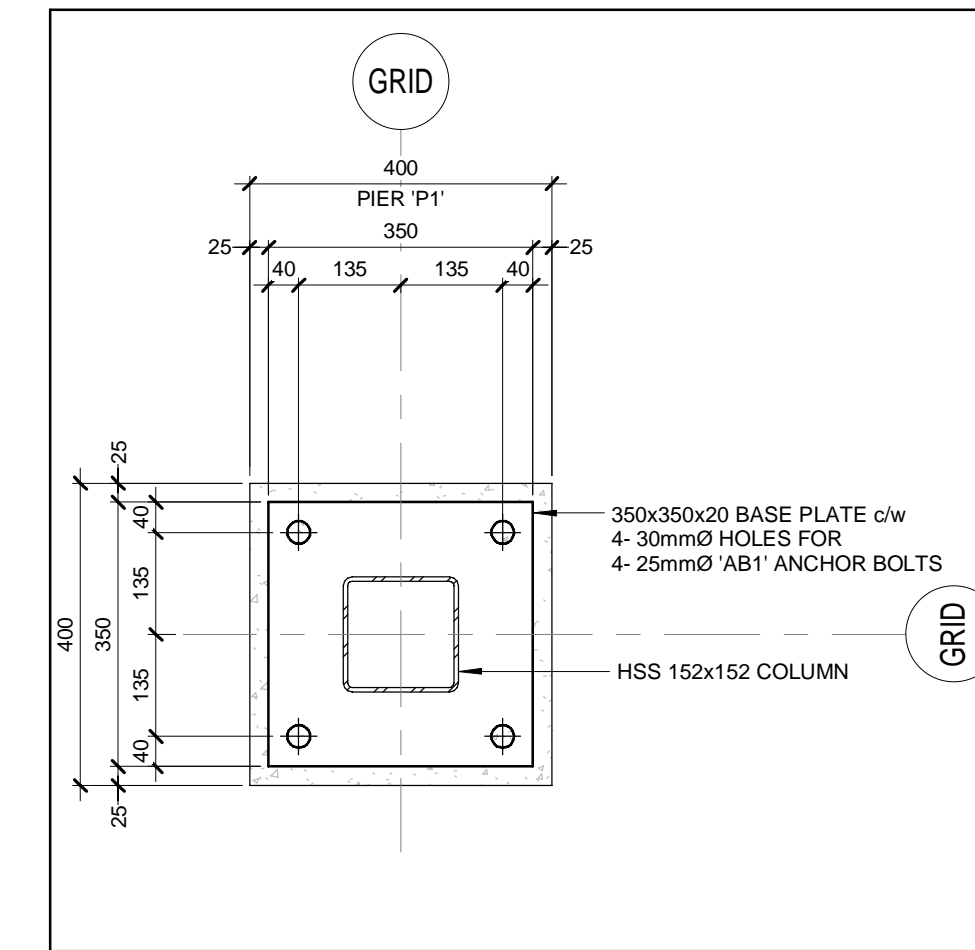
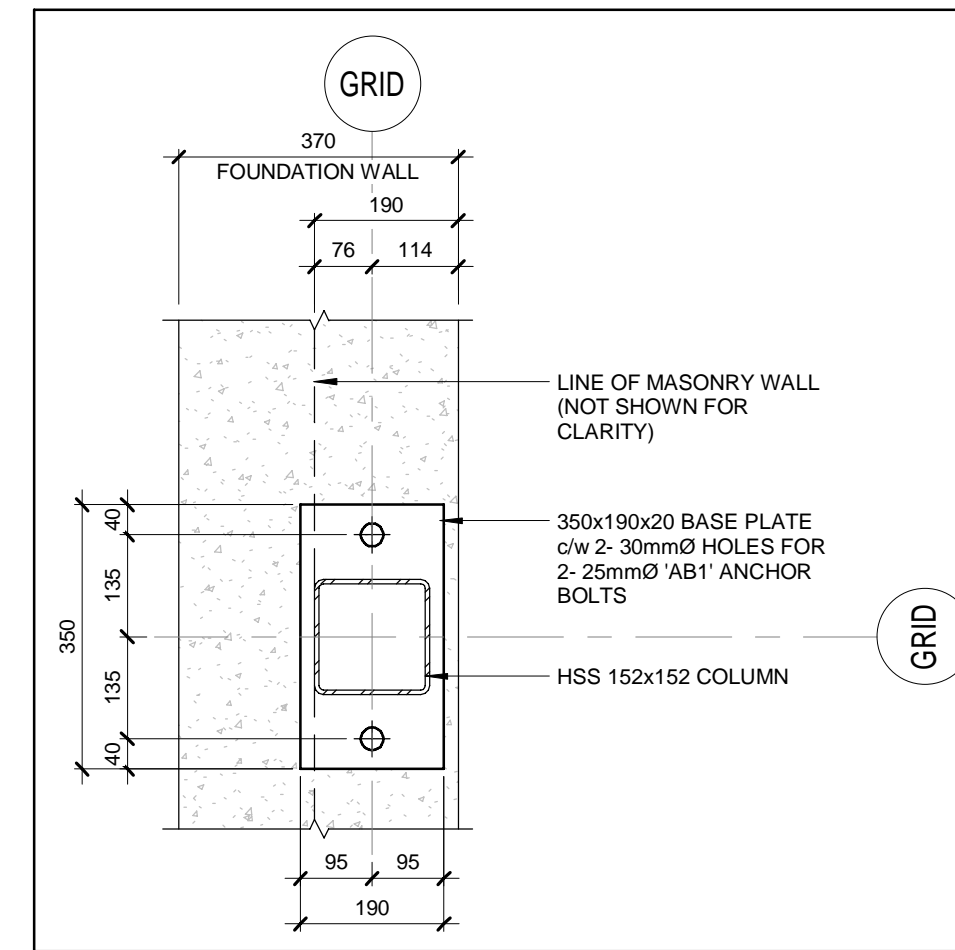
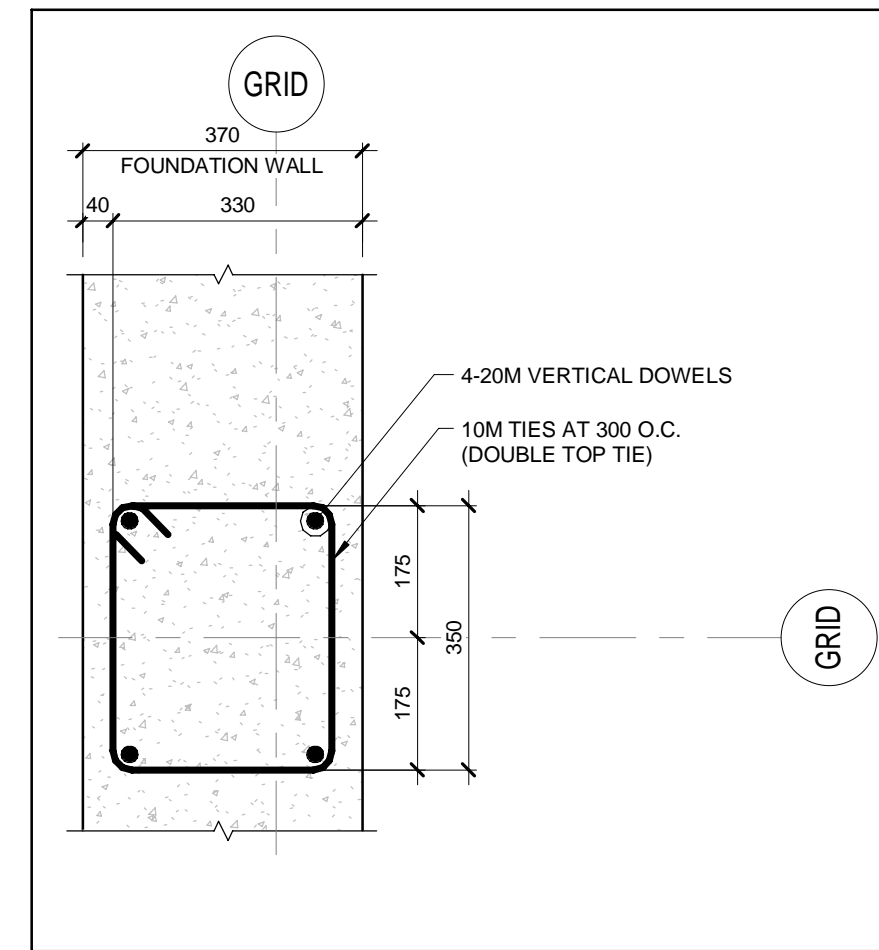
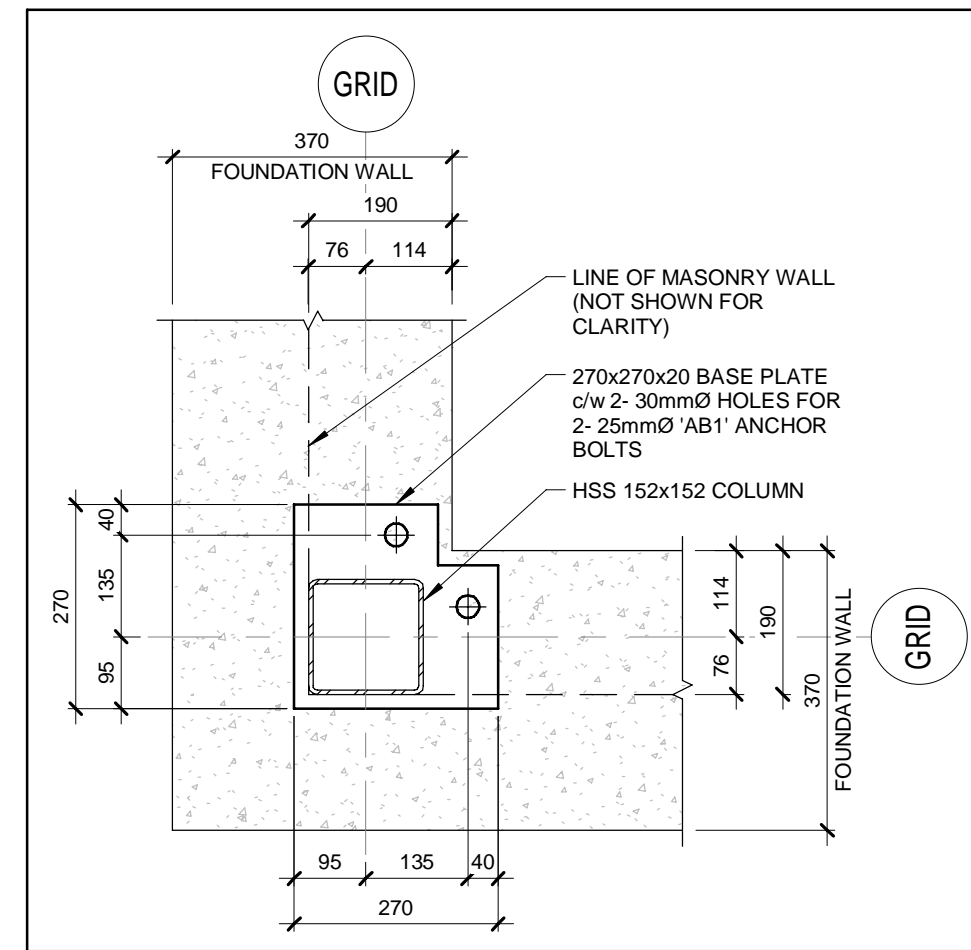
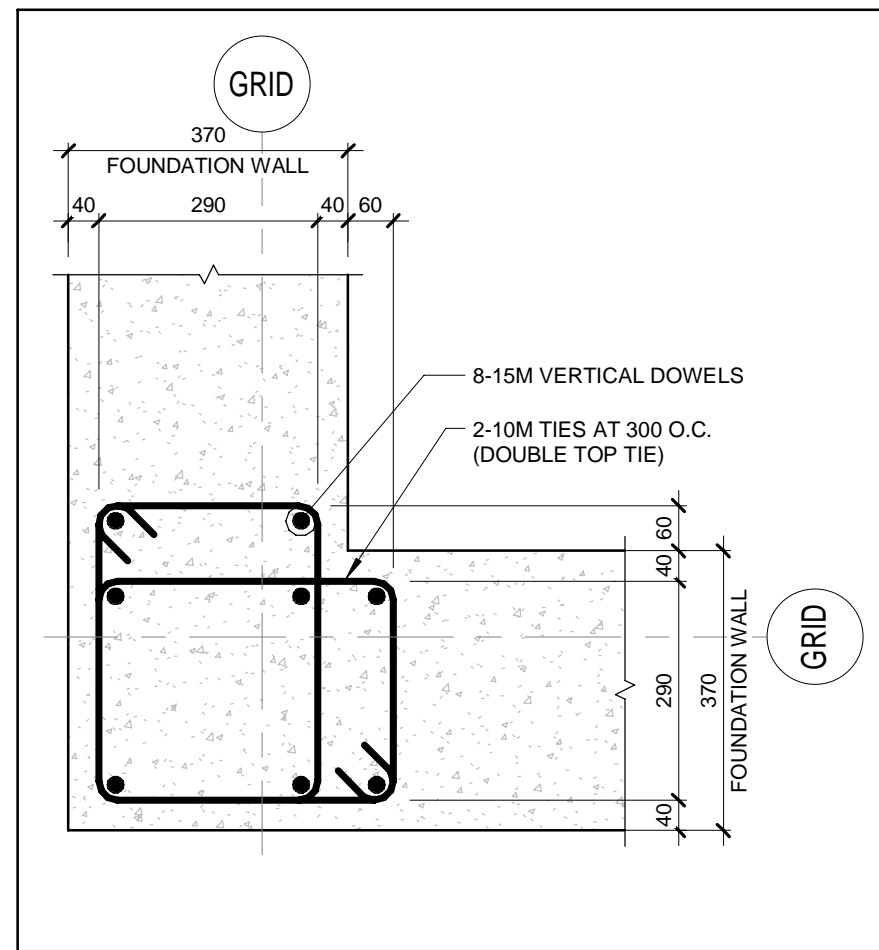
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**CYPRUS LAKE  
CAMPGROUND - THE  
HUB AMENITY BUILDING**




Drawing title / Titre du Dessin  
**STRUCTURAL -  
FOUNDATION SECTIONS  
AND DETAILS**

Plot Scale / Echelle As indicated	Date 2017- 03- 22
Drawn by/ Dessin par JA	Date 2018- 05- 31
Field Recording by/ Releve- Terrain par -	Date 2018- 05- 31
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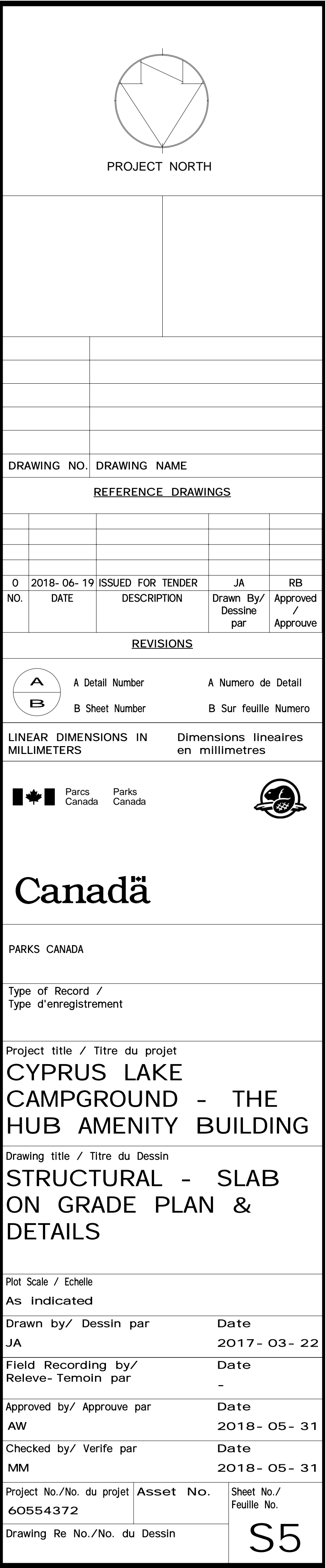
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Type of Record / Type d'enregistrement				
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Drawing title / Titre du Dessin STRUCTURAL - FOUNDATION SECTIONS AND DETAILS				
Plot Scale / Echelle As indicated				
Drawn by/ Dessin par		Date		
Author		2017-03-22		
Field Recording by/ Releve-Temoin par		Date -		
Approved by/ Approuve par		Date		
Approver		2018-05-31		
Checked by/ Verifie par		Date		
Checker		2018-05-31		
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6O554372				
Drawing Re No./No. du Dessin				S4





3-15M CONTINUOUS

SIDEWALK REFER TO SITE PLAN

15M AT 300 O.C.

900

900

ENSURE ALL SLAB EDGES ARE FLUSH WITH SURROUNDING SIDEWALKS

IN-FLOR HEATING PIPES REFER TO MECHANICAL

REFER TO SLAB PLAN

VAPOUR BARRIER

100mm HI-40 RIGID INSULATION

GRANULAR "A" COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY

REFER TO FOUNDATION PLAN FOR WALL REINFORCING

REFER TO SITE DRAWINGS

2000 (N.T.S.) AT

PERIMETER OF SLAB

250

100

200

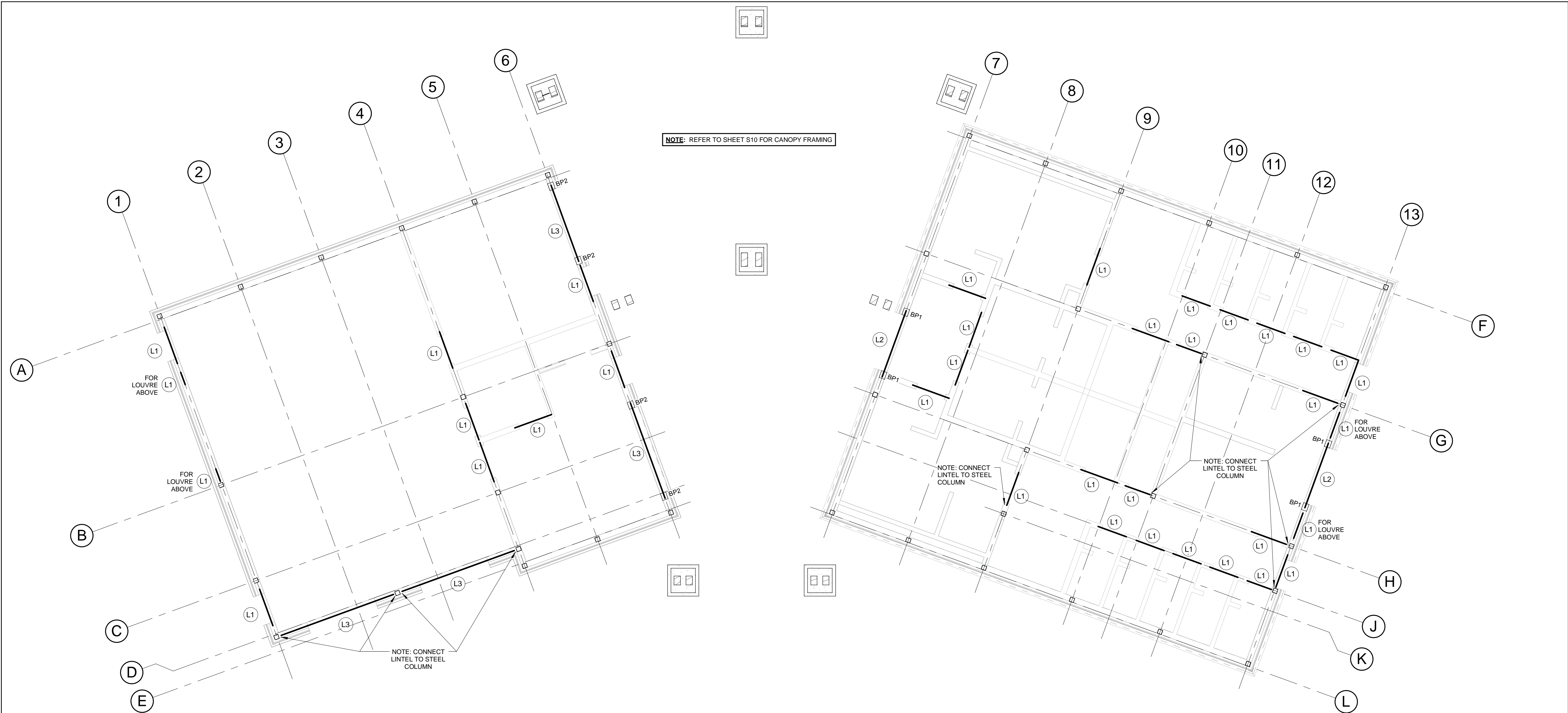
300

600

200

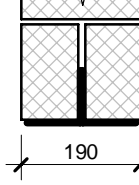
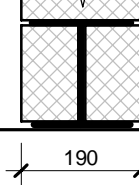
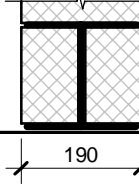
8 EXTERIOR DOOR OPENINGS  
1 : 20





1 LINTEL PLAN

1:75

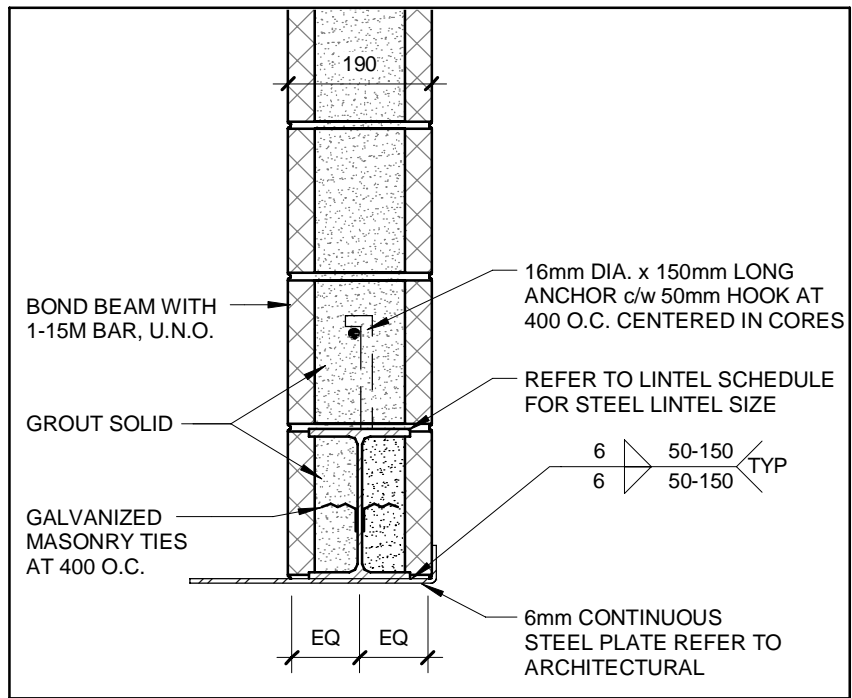
STEEL LINTELS AT NON-LOAD BEARING CONCRETE BLOCK WALLS					
MARK	WALL THICKNESS	MAX CLEAR SPAN	DESCRIPTION	BEARING PLATE	DETAIL
L1	190mm	INTERIOR & EXTERIOR	2-L89x89x6.4	NONE	
L2	190mm	EXTERIOR	W200x27 + 6mm PLATE REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF PLATE	BP-1	 REFER TO DETAIL
L3	190mm	EXTERIOR	W200x36 + 6mm PLATE REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF PLATE	BP-2	 REFER TO DETAIL

- NOTES:**
- BEARING LENGTH: 200mm MINIMUM AT EACH END (ANGLED LINTEL) ON FILLED OR SOLID MASONRY U.N.O.
  - CONNECT BACK TO BACK ANGLES AT 450 O.C. BY WELDING
  - ALL ANGLES ARE LONG LEG VERTICAL (LLV) U.N.O.
  - COORDINATE ALL ADDITIONAL REQUIRED OPENINGS WITH ALL DISCIPLINES.
  - FOR MASONRY OPENINGS LESS THAN OR EQUAL TO 300mm WIDE, USE A 8mm THICK STEEL PLATE LINTEL THE EDGE OF THE PLATE SHALL BE RECESSED 6mm FROM EACH WALL FACE. PROVIDE 150mm BEARING EACH SIDE.
  - STEEL LINTELS ARE NOT REQUIRED FOR OPENINGS LESS THEN 150mm.
  - FOR LINTEL "L1", PROVIDE MINIMUM BEARING OF SOLIDLY GROUTED BLOCK TWO COURSES DEEP.
  - LINTEL L2 & L3, PROVIDE BEAM BEARING PLATES (REFER TO BEARING PLATE SCHEDULE) INTO SOLIDLY GROUTED REINFORCED CORES, TWO COURSES DEEP. LOCATE BEARING PLATES MINIMUM 25mm FROM EDGE OF OPENING.
  - ALL STEEL LINTEL BEAM ASSEMBLIES IN EXTERIOR WALLS ARE TO BE HOT-DIPPED GALVANIZED.
  - REFER TO MECHANICAL DRAWINGS FOR MECHANICAL WALL OPENINGS REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.

BEARING PLATE SCHEDULE				
MARK	BEAM MAX FLANGE WIDTH	BEAM SIZE	PLATE SIZE (MM) T x W x L	ANCHORS REQUIRED
BP1	150mm	SEE PLANS	16 x 180 x 180	2-19mm Ø
BP2	175mm	SEE PLANS	16 x 190 x 200	2-19mm Ø

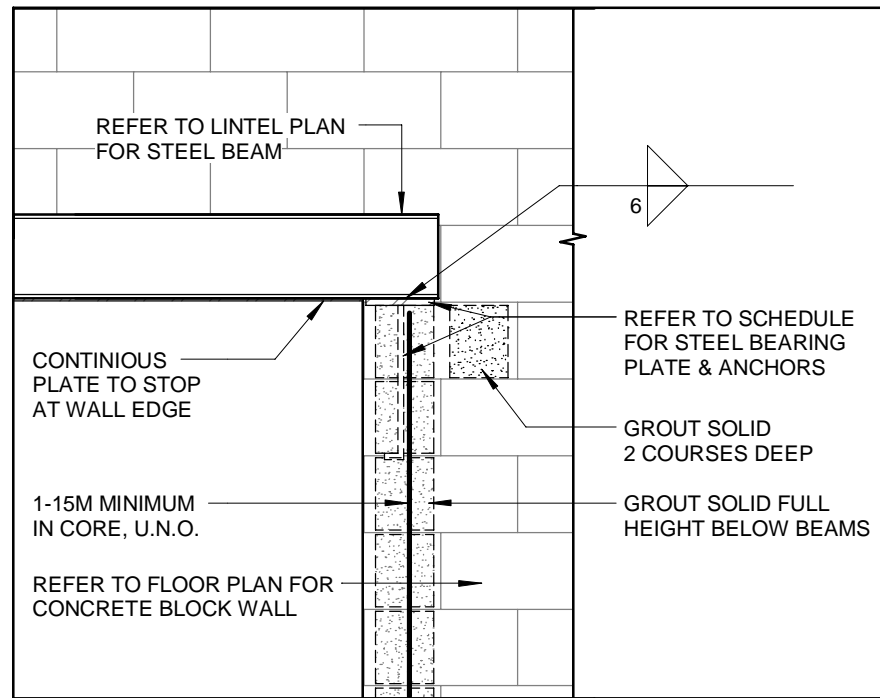
**NOTES:**

- BEAM BEARING LENGTH (L) MUST MATCH BASE PLATE DIMENSION.
- ANCHORS SHALL BE FULLY WELDED TO THE BEARING PLATE: 19mm DIA. x 400mm LONG w/ 50mm HOOK.
- SEE DETAILS ON THIS SHEET FOR WALL REINFORCING UNDER BEARING PLATE LOCATIONS.
- REFER TO LINTEL SCHEDULE FOR REQUIRED BEARING PLATES AT LINTEL LOCATIONS.



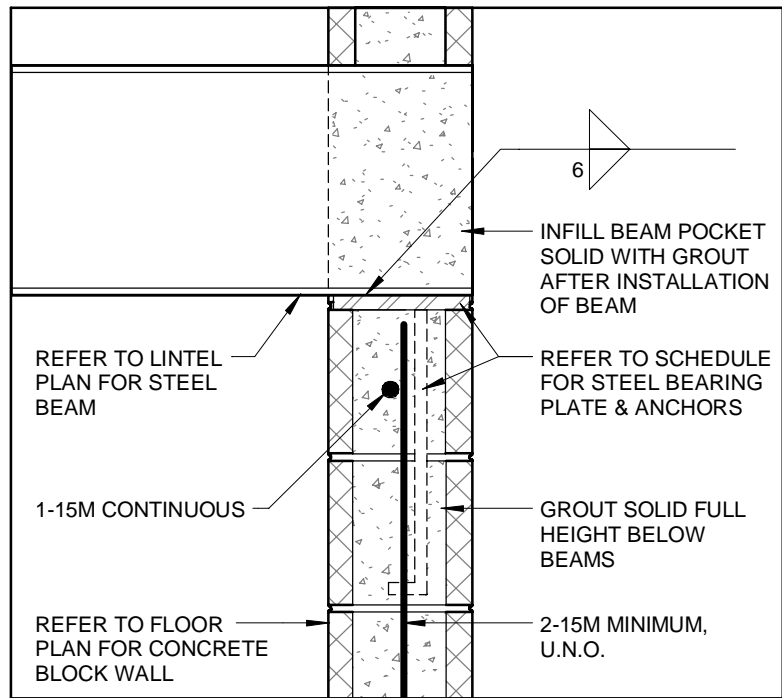
2 TYPICAL BEAM LINTEL

1:10



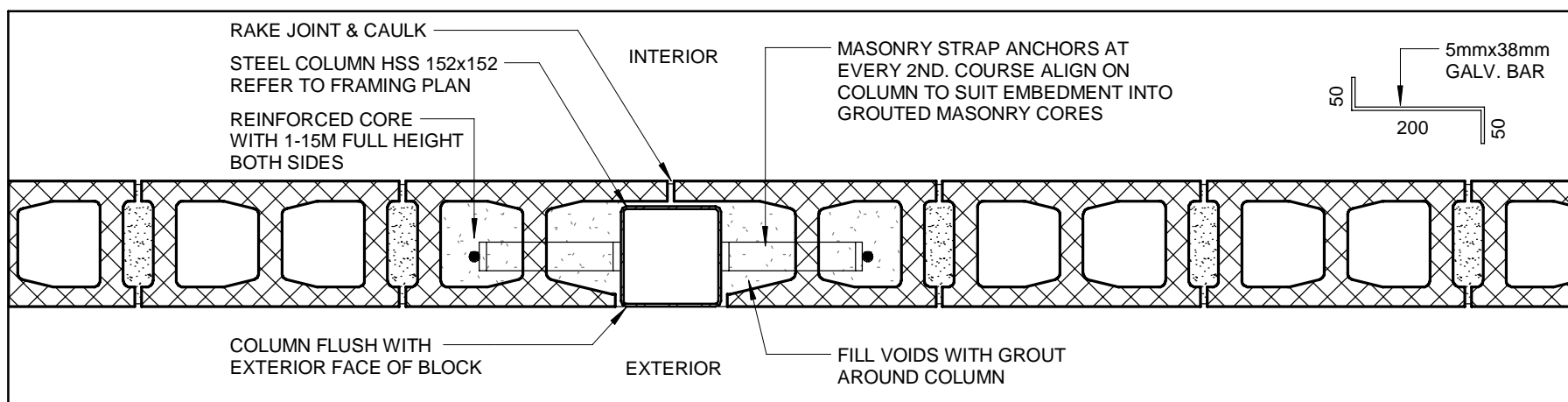
3 200mm BEAM BEARING

1:20



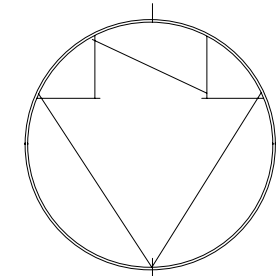
4 PERPENDICULAR SUPPORT

1:10



5 COLUMN ANCHORING IN TO MASONRY WALL @ ALL EXTERIOR WALLS

1:10



PROJECT NORTH

DRAWING NO. DRAWING NAME

REFERENCE DRAWINGS

0	2018- 06- 19	ISSUED FOR TENDER	JA	RB
NO.	DATE	DESCRIPTION	Drawn By/ Dessine par	Approved / Approuve

REVISIONS

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

LINEAR DIMENSIONS IN MILLIMETERS Dimensions lineaires en millimetres

Parcs Canada Parks Canada



Canada

PARKS CANADA

Type of Record / Type d'enregistrement

Project title / Titre du projet  
**CYPRUS LAKE CAMPGROUND - THE HUB AMENITY BUILDING**

Drawing title / Titre du Dessin  
**STRUCTURAL - LINTELS & MASONRY DETAILS**

Plot Scale / Echelle

As Indicated

Drawn by/ Dessin par  
JA Date  
2017- 03- 22

Field Recording by/ Relevé- Terrain par  
Date  
-

Approved by/ Approuve par  
AW Date  
2018- 05- 31

Checked by/ Verifie par  
MM Date  
2018- 05- 31

Project No./No. du projet  
60554372

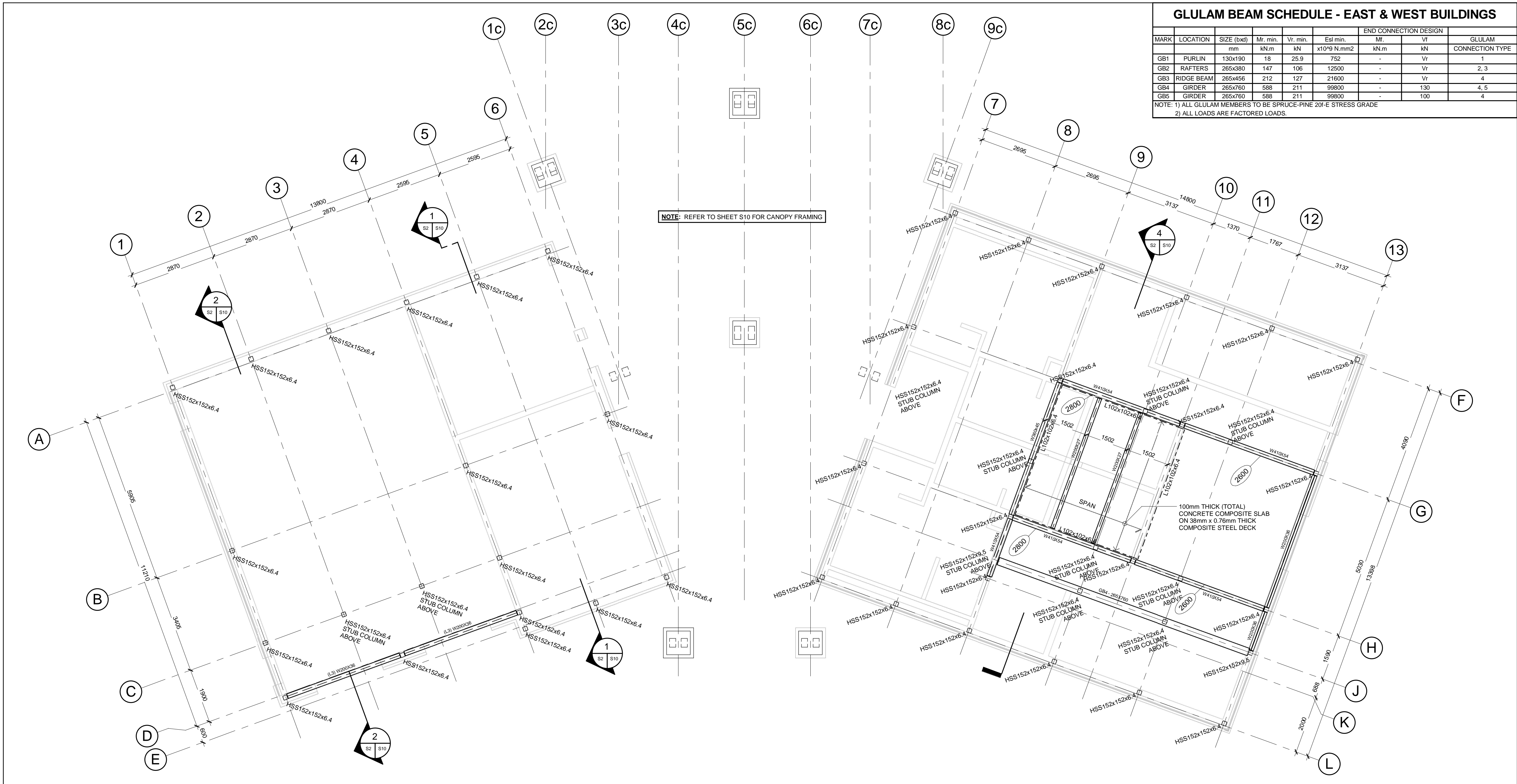
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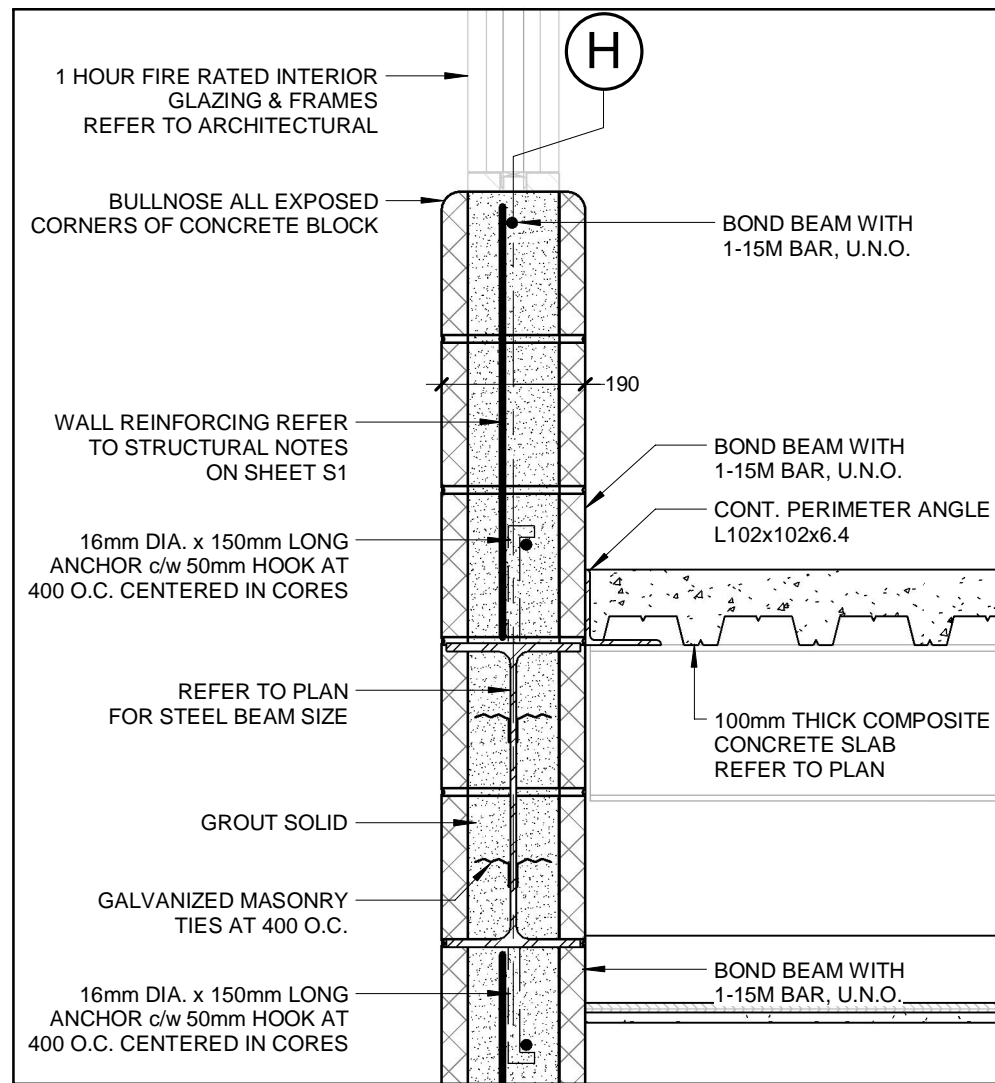
Drawing Re No./No. du Dessin

S6

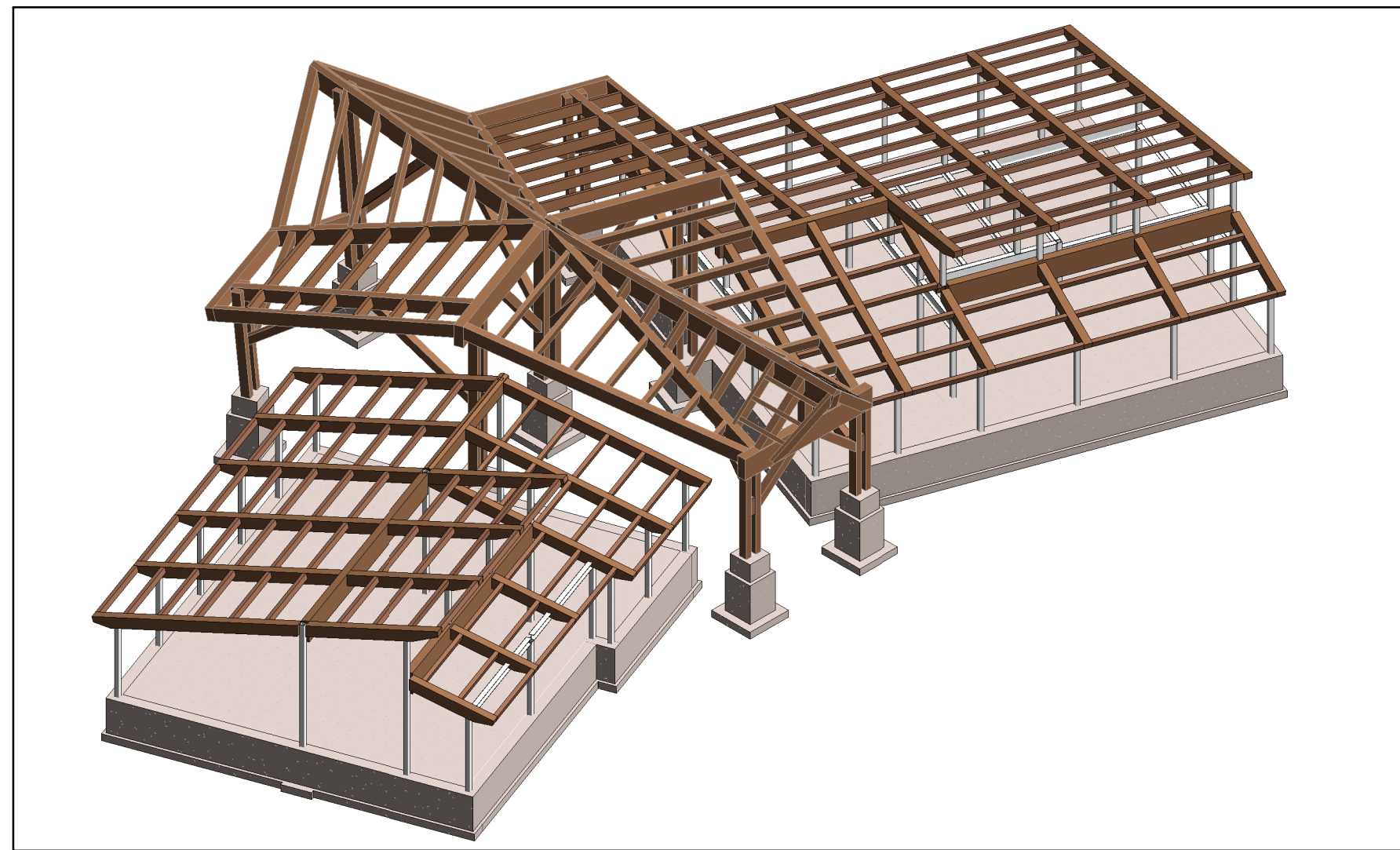




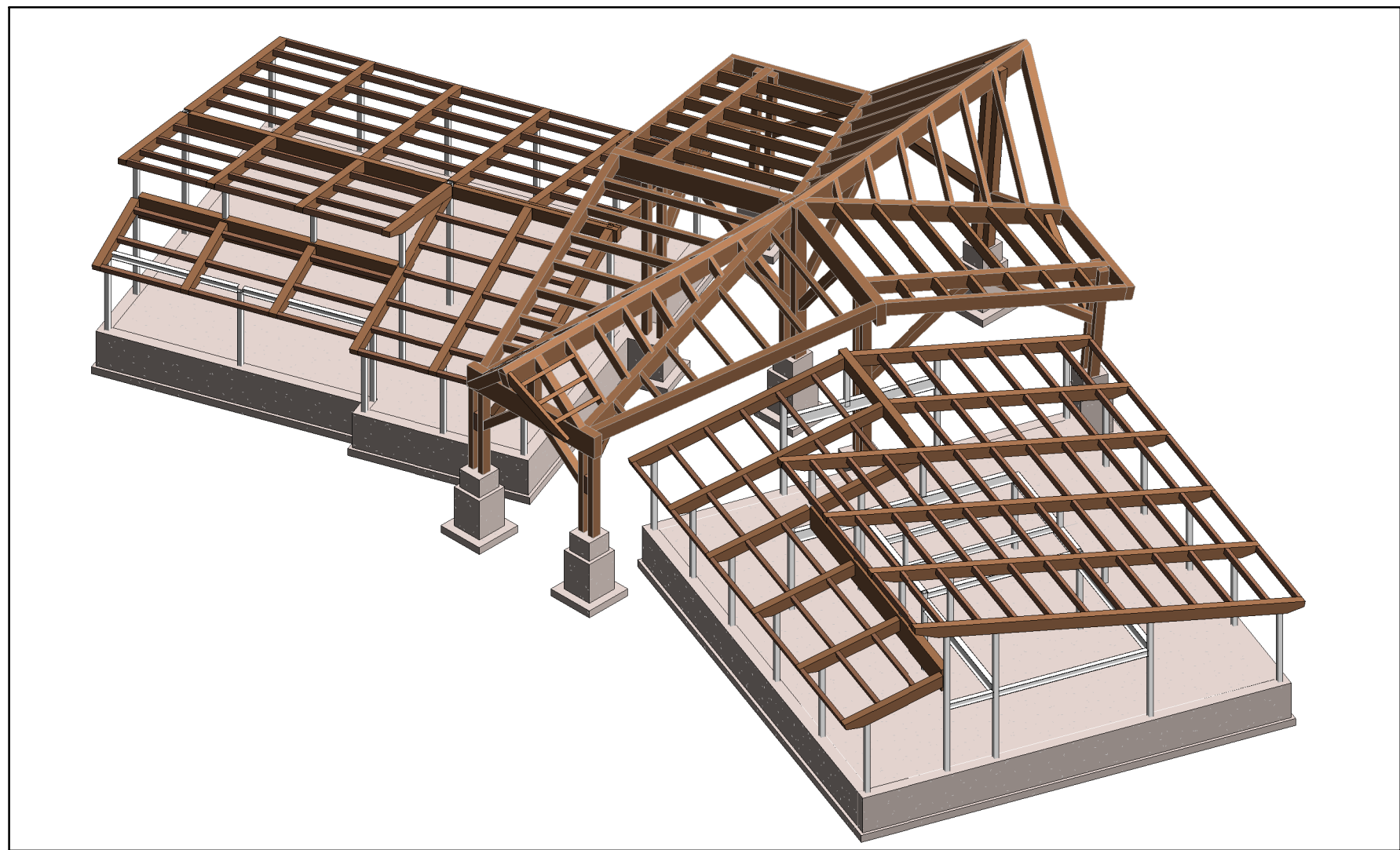
1 MID-LEVEL FRAMING PLAN  
1:75



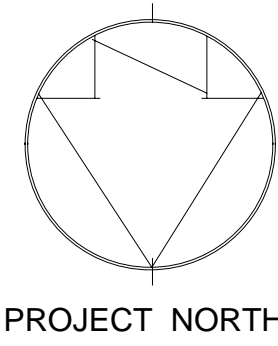
2 TYPICAL DETAIL - CONCEALED BEAM  
1:10



3 STRUCTURAL FRAME ISOMETRIC I



4 STRUCTURAL FRAME ISOMETRIC II



PROJECT NORTH

DRAWING NO. DRAWING NAME

REFERENCE DRAWINGS

NO.	DATE	DESCRIPTION	Drawn By/ Dessine par	Approved / Approuvé
0	2018- 06- 19	ISSUED FOR TENDER	JA	RB

REVISIONS

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B	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  
CAMPGROUND - THE  
HUB AMENITY BUILDING**

Drawing title / Titre du Dessin  
**STRUCTURAL -  
MID- LEVEL FRAMING  
PLAN**

Plot Scale / Echelle  
As indicated

Drawn by/ Dessin par  
JA  
Date  
2017- 03- 22

Field Recording by/  
Releve- Terrain par  
-  
Date  
-

Approved by/ Approuvé par  
AW  
Date  
2018- 05- 31

Checked by/ Verifie par  
MM  
Date  
2018- 05- 31

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60554372  
Asset No.  
Sheet No./  
Feuille No.

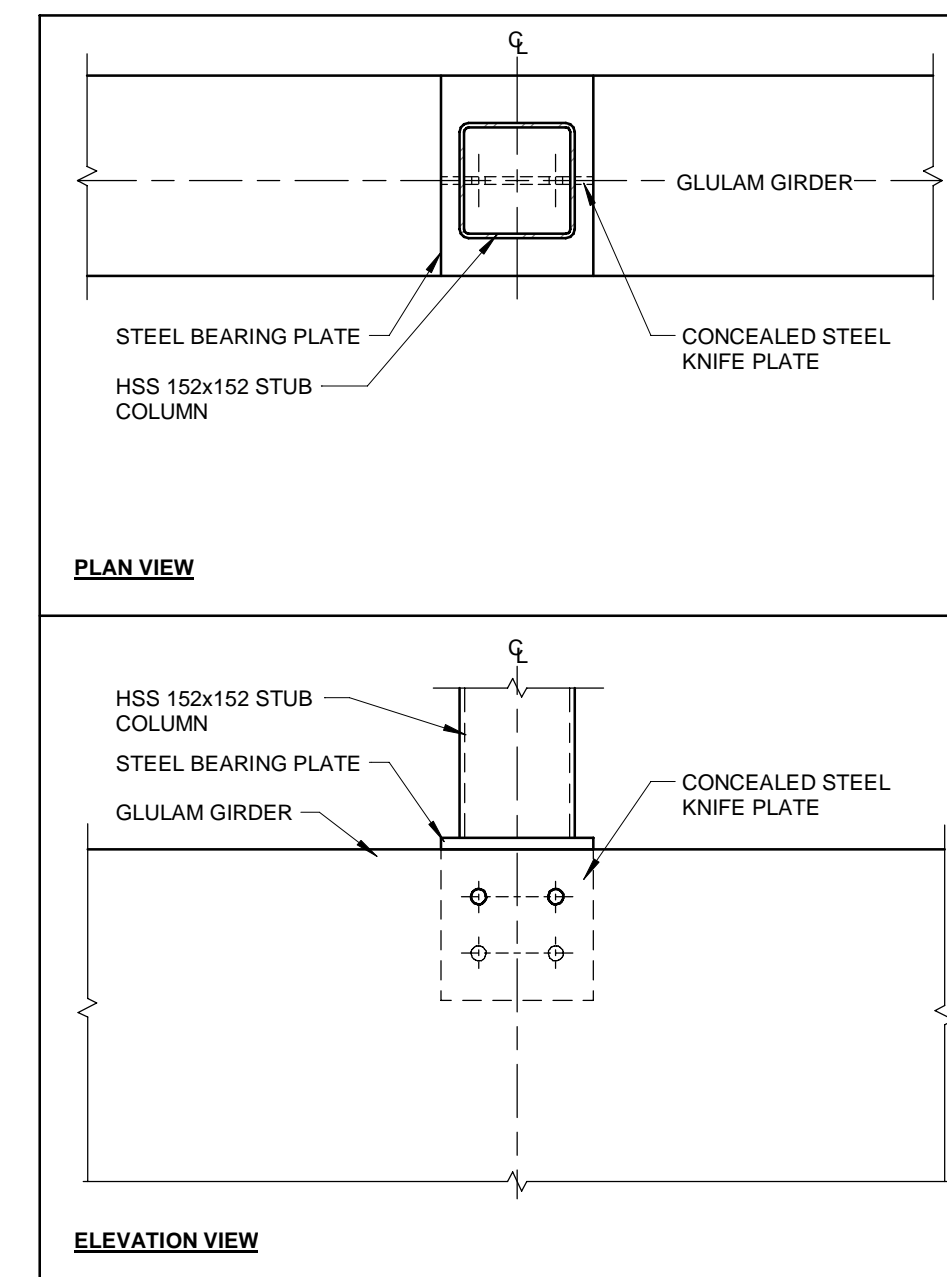
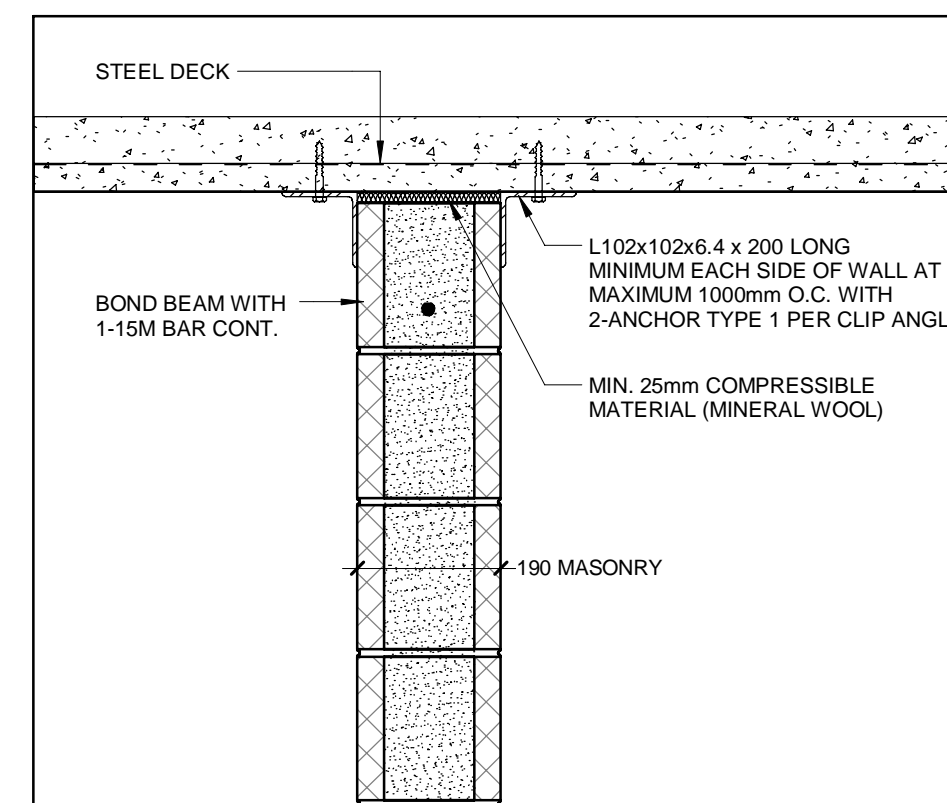
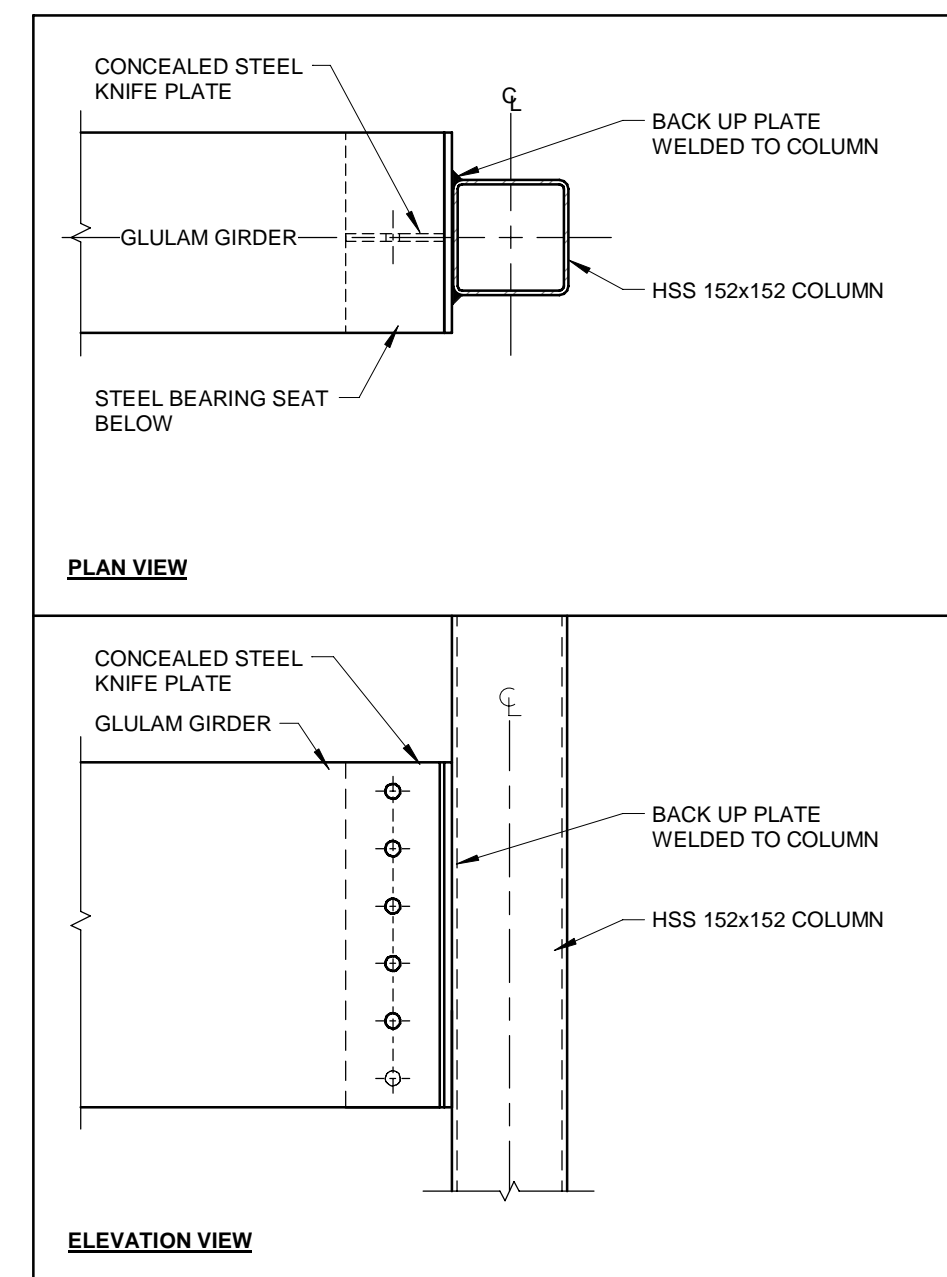
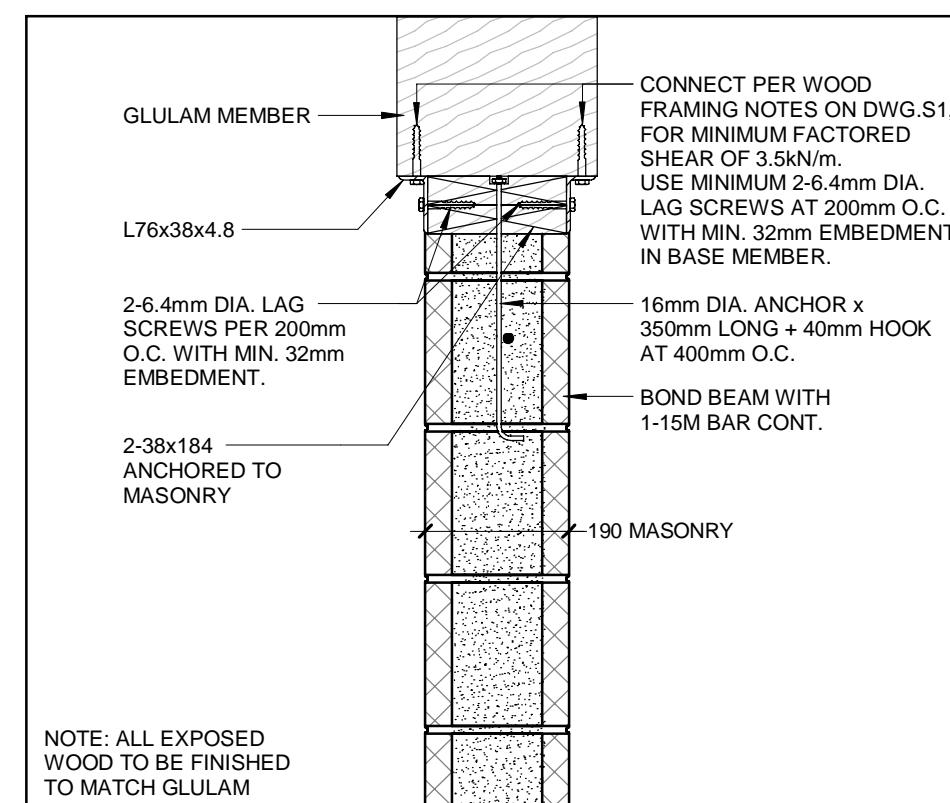
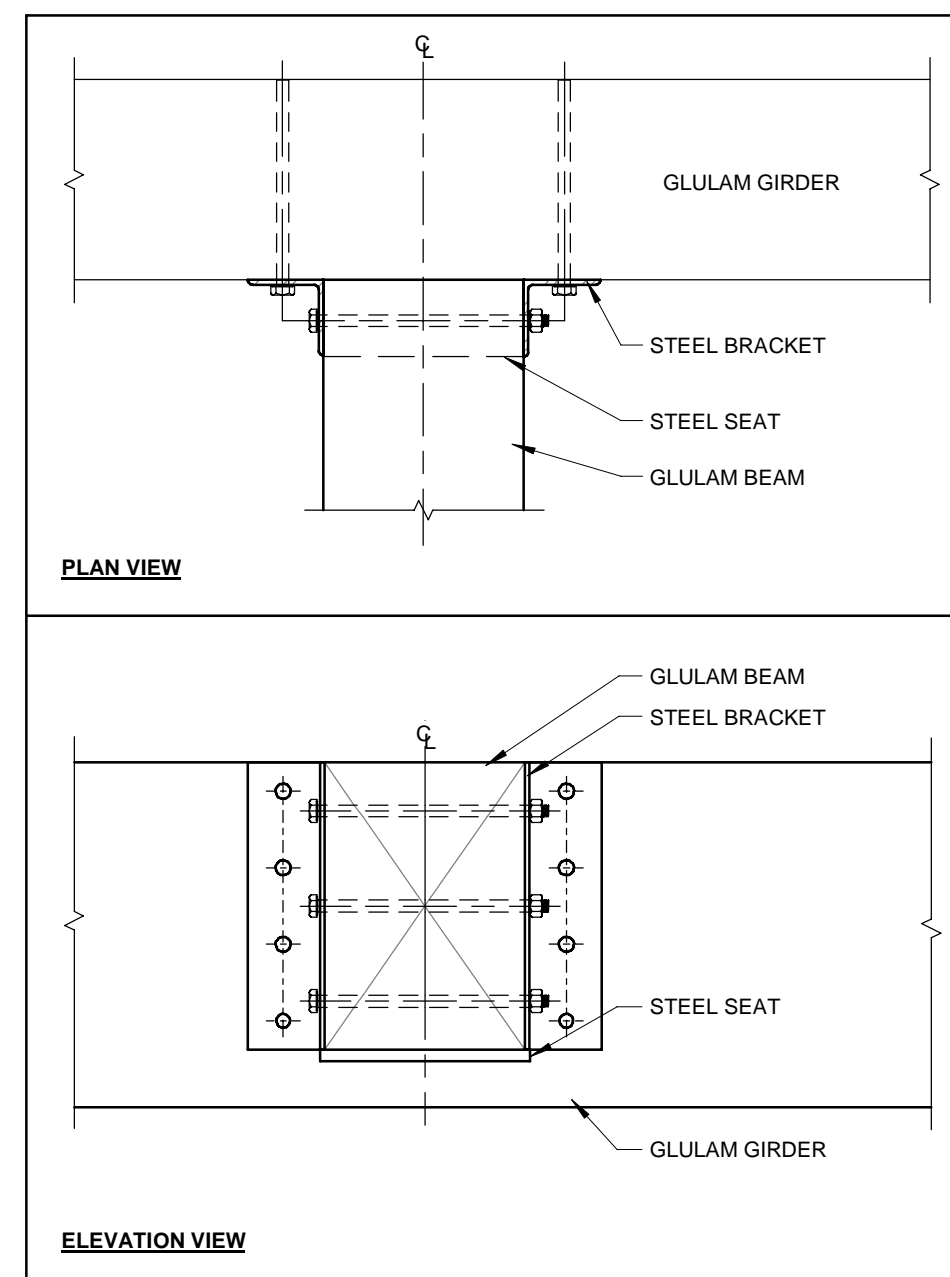
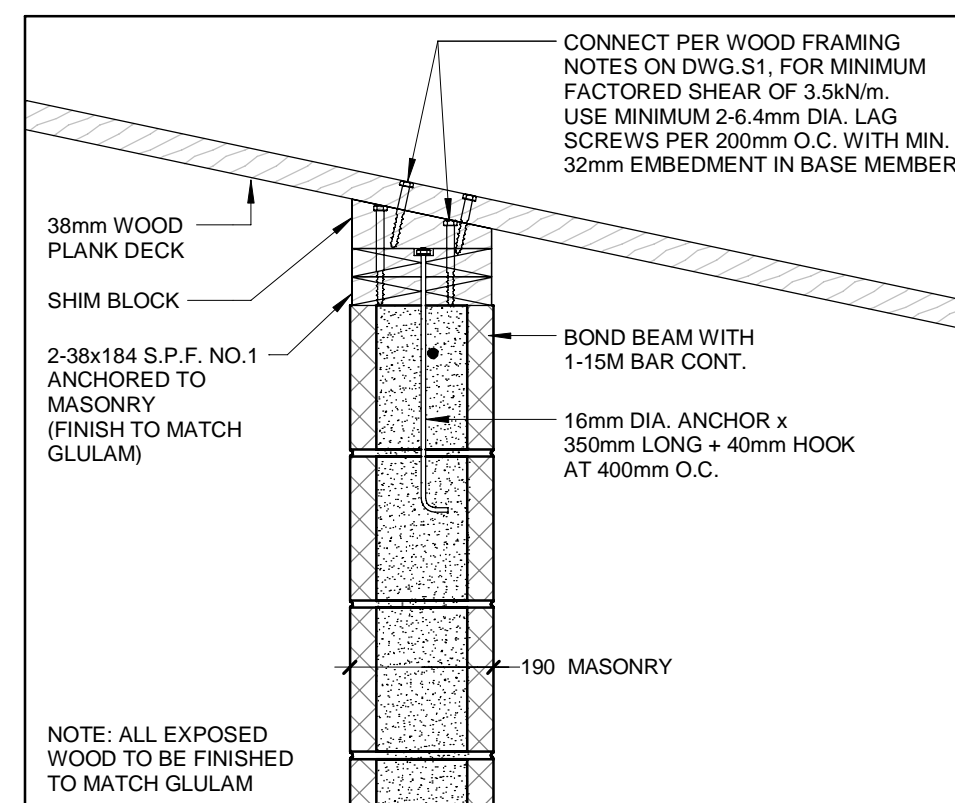
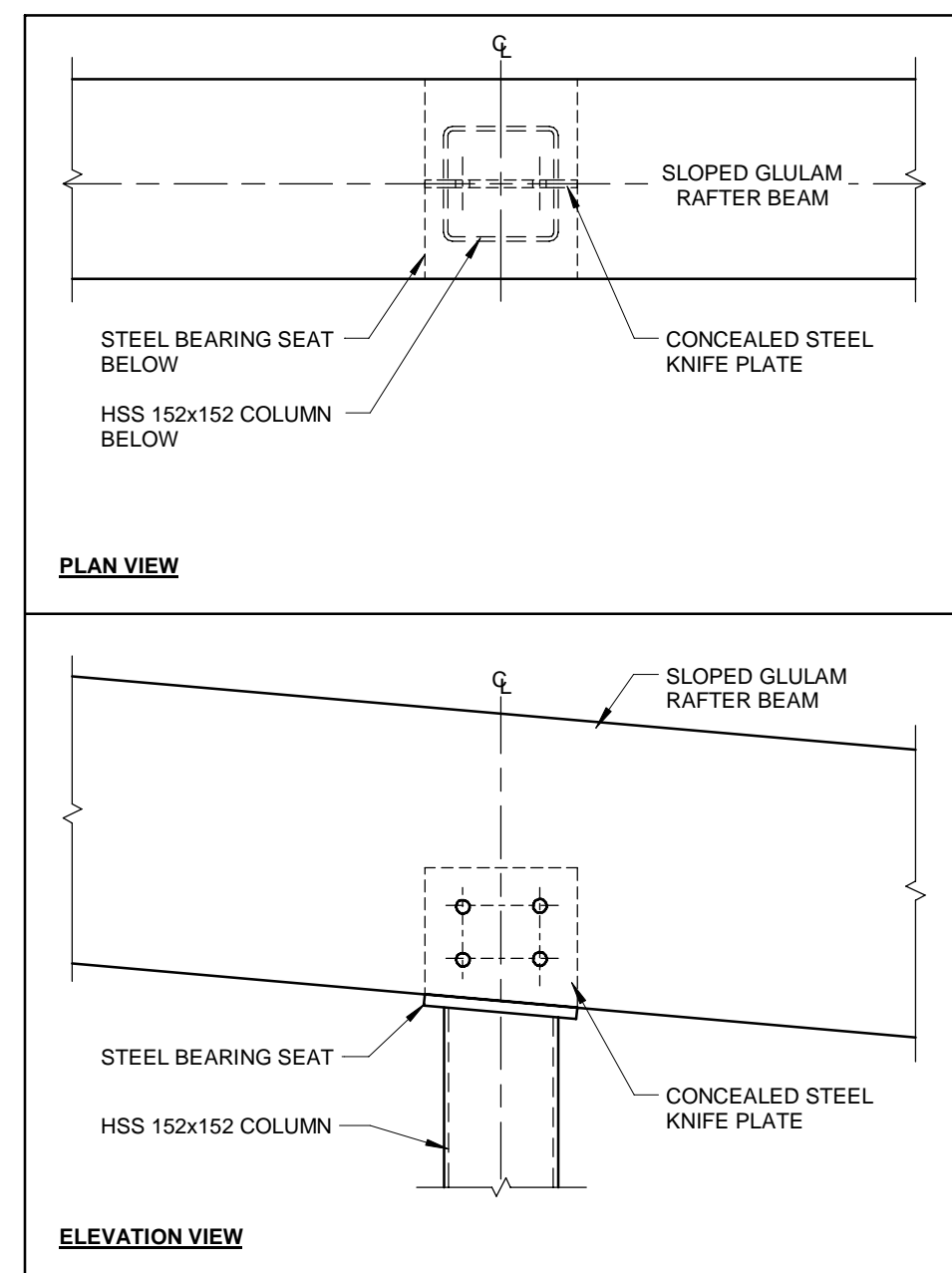
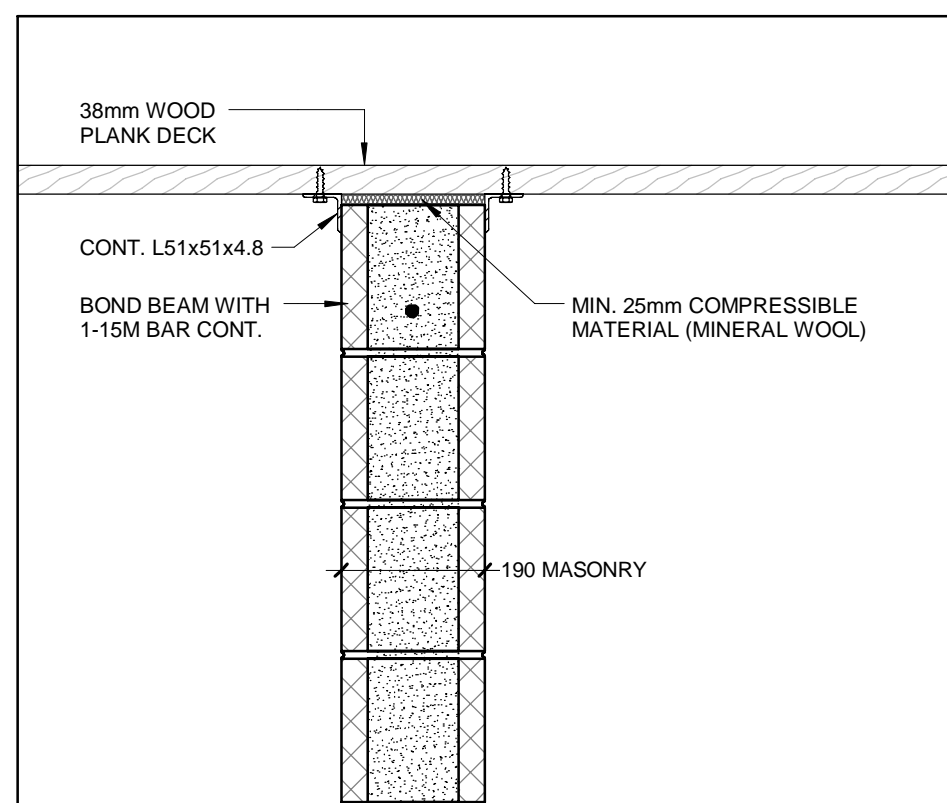
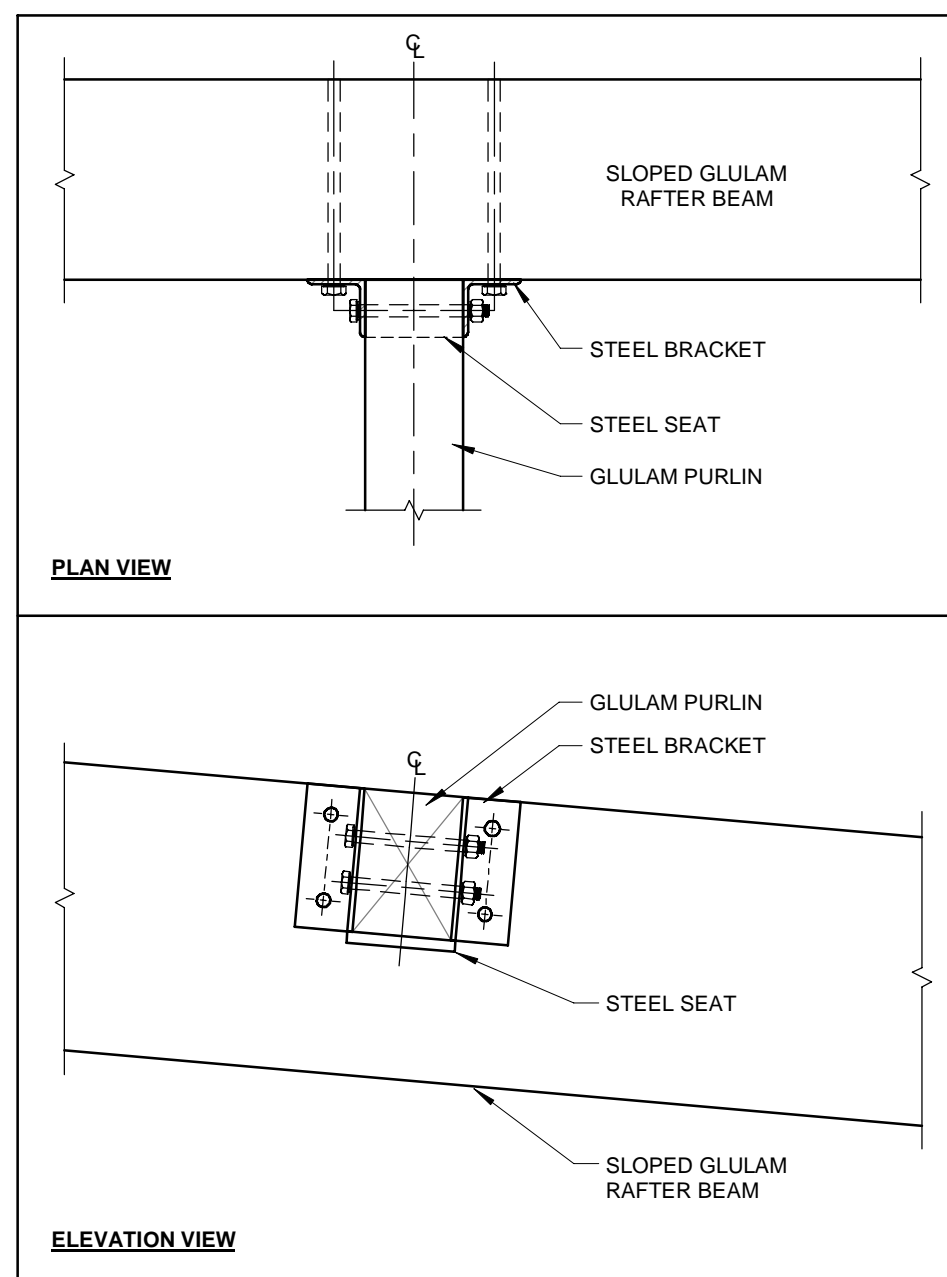
Drawing Re No./No. du Dessin

S7



S8





NOTE: THE WOOD-TO-WOOD AND WOOD-TO-STEEL CONNECTION DETAILS SHOWN ARE SCHEMATIC ONLY AND ARE INTENDED TO SHOW THE GENERAL INTENT OF THE CONNECTION. IMPROVEMENTS TO THE APPEARANCE OR EFFICIENCY OF THE CONNECTIONS ARE ENCOURAGED AND WILL BE REVIEWED DURING SHOP DRAWING REVIEW.

DRAWING NO.	DRAWING NAME
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## REFERENCE DRAWINGS

0	2018- 06- 19	ISSUED FOR TENDER	JA	RB
NO.	DATE	DESCRIPTION	Drawn By/ Dessine par	Approved / Approve

LINEAR DIMENSIONS IN  
MILLIMETERS



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PARKS CANADA

Type of Record /  
Type d'enregistrement

Project title / Titre du projet  
CYPRUS LAKE  
CAMPGROUND - THE  
HUB AMENITY BUILDING

Drawing title / Titre du Dessin

**STRUCTURAL - ROOF  
& GLULAM DETAILS**

Plot Scale / Echelle  
1 : 10

Drawn by/ Dessin par	Date
JA	2017- 03- 22

Field Recording by/ Releve- Temoin par	Date -
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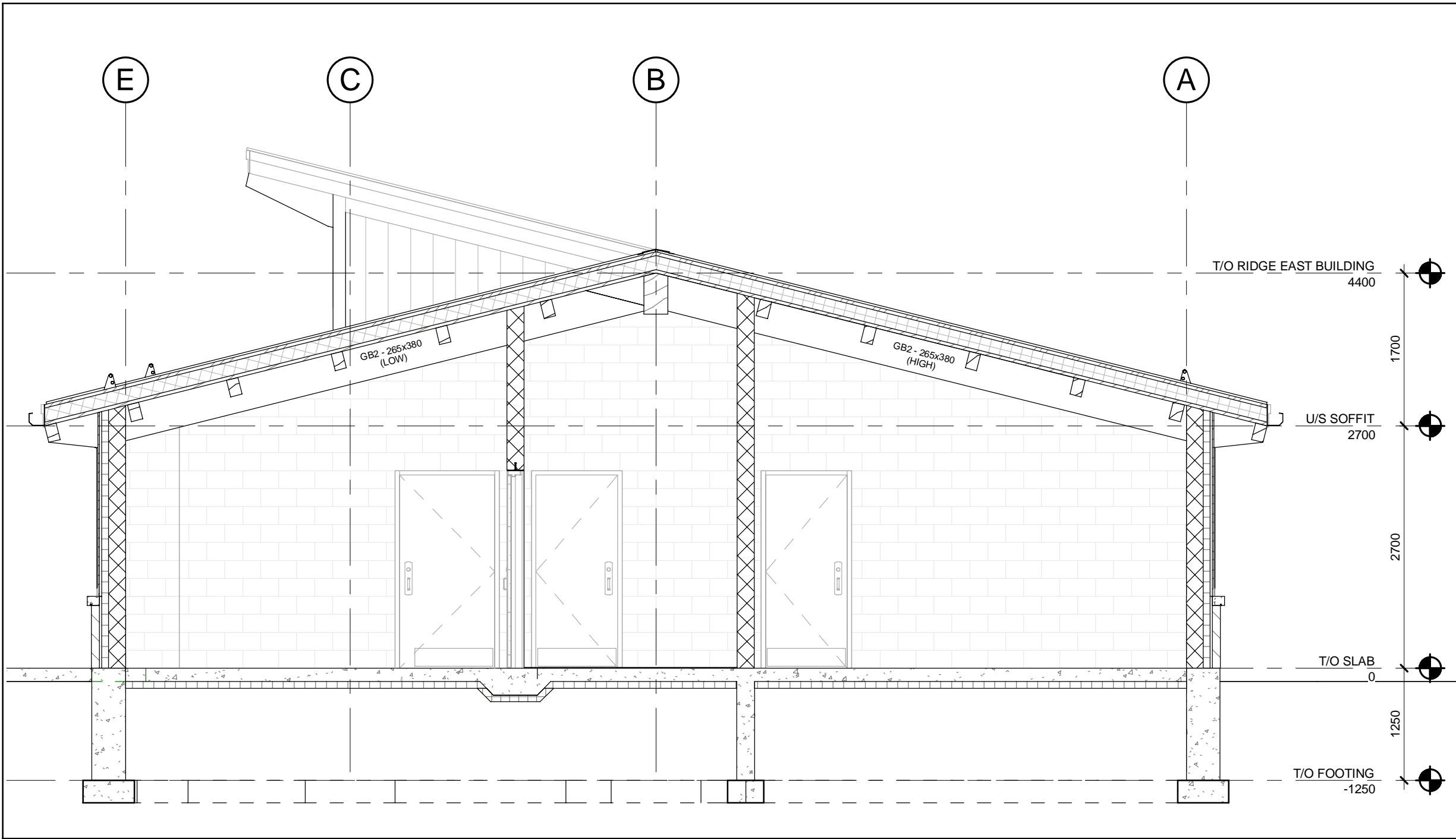
Approved by/ Approuvé par	Date
AW	2018- 05- 31

Checked by/ Verife par	Date
MM	2018- 05- 31

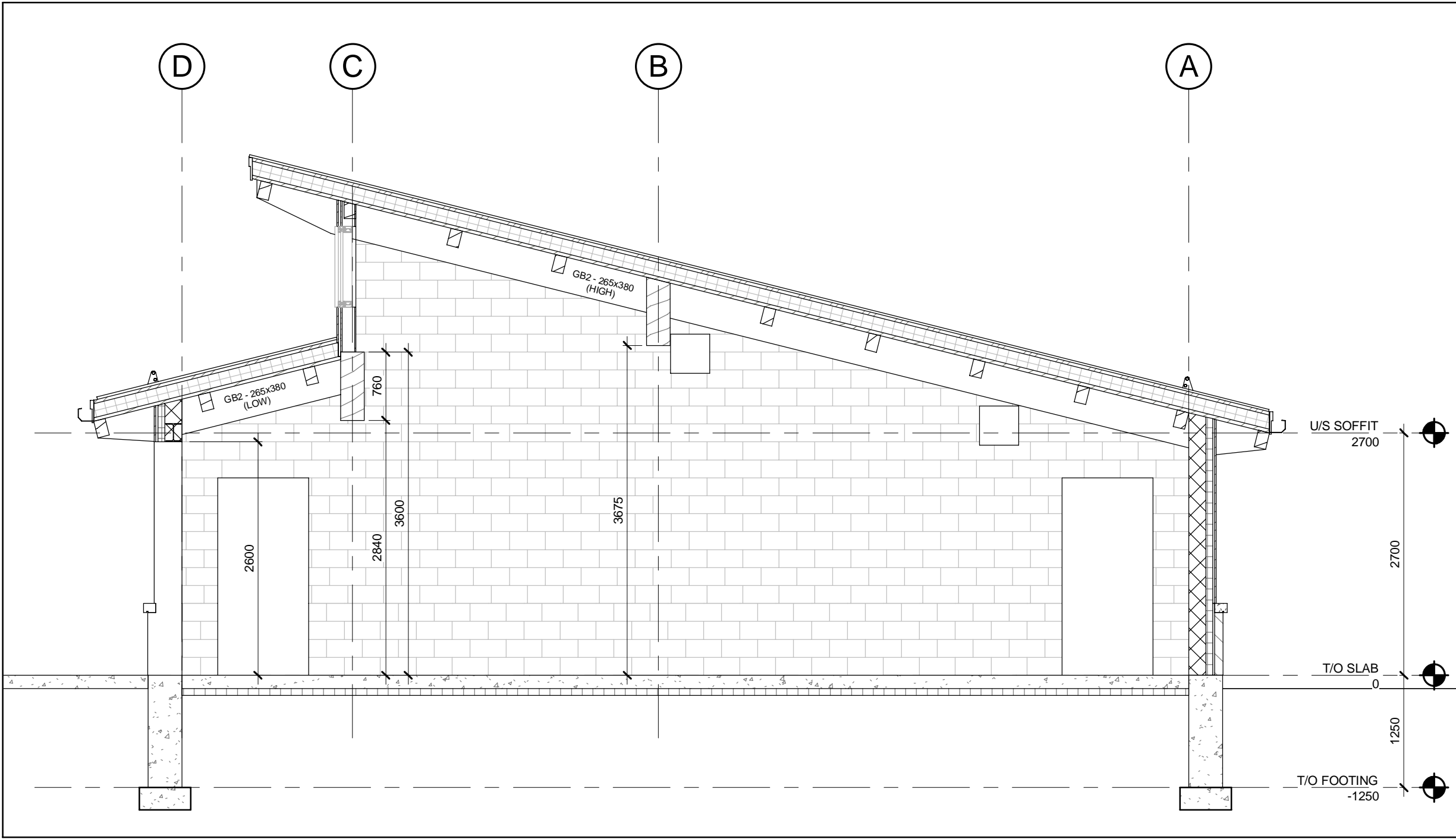
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Drawing Re No./No. du Dessin	59
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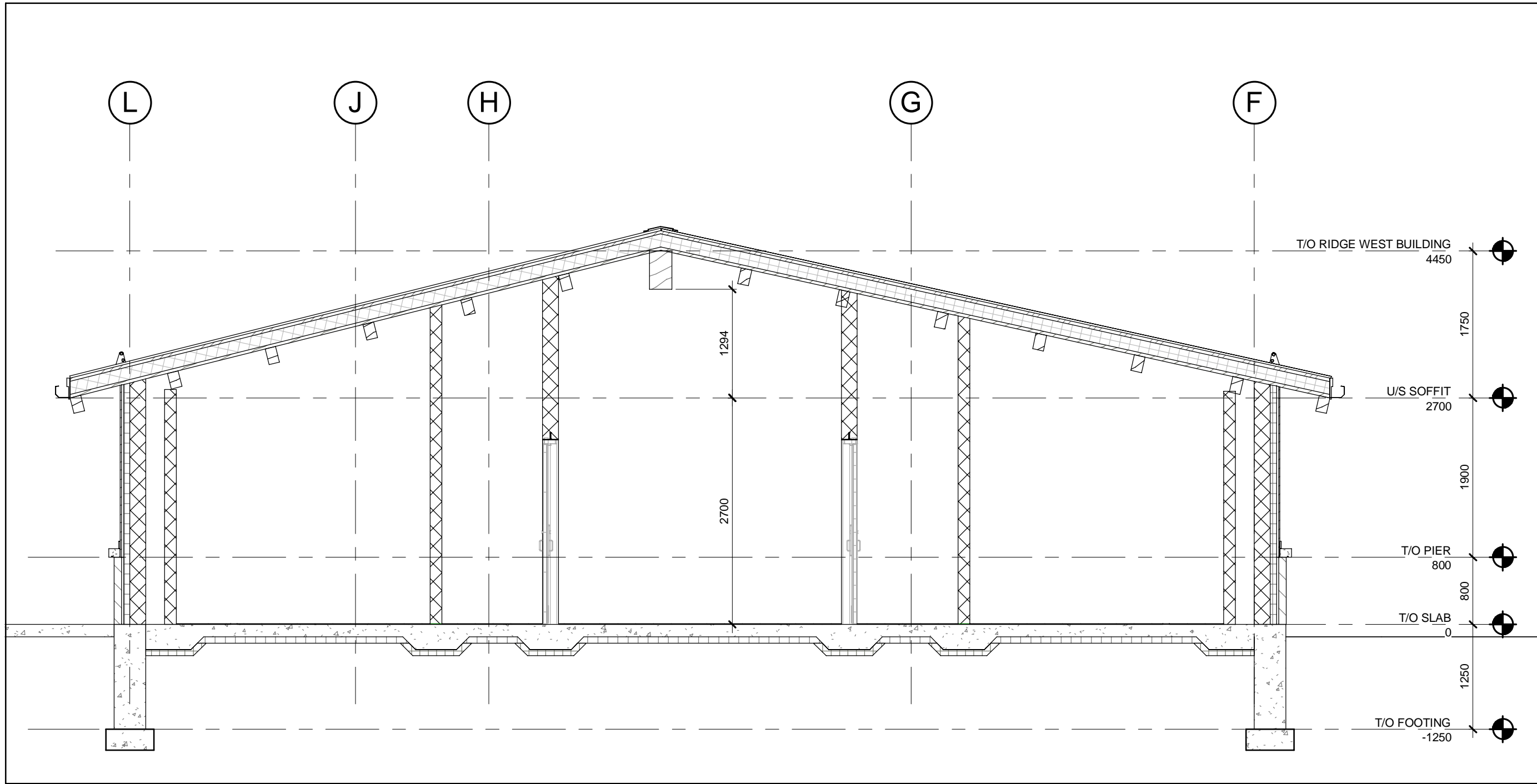




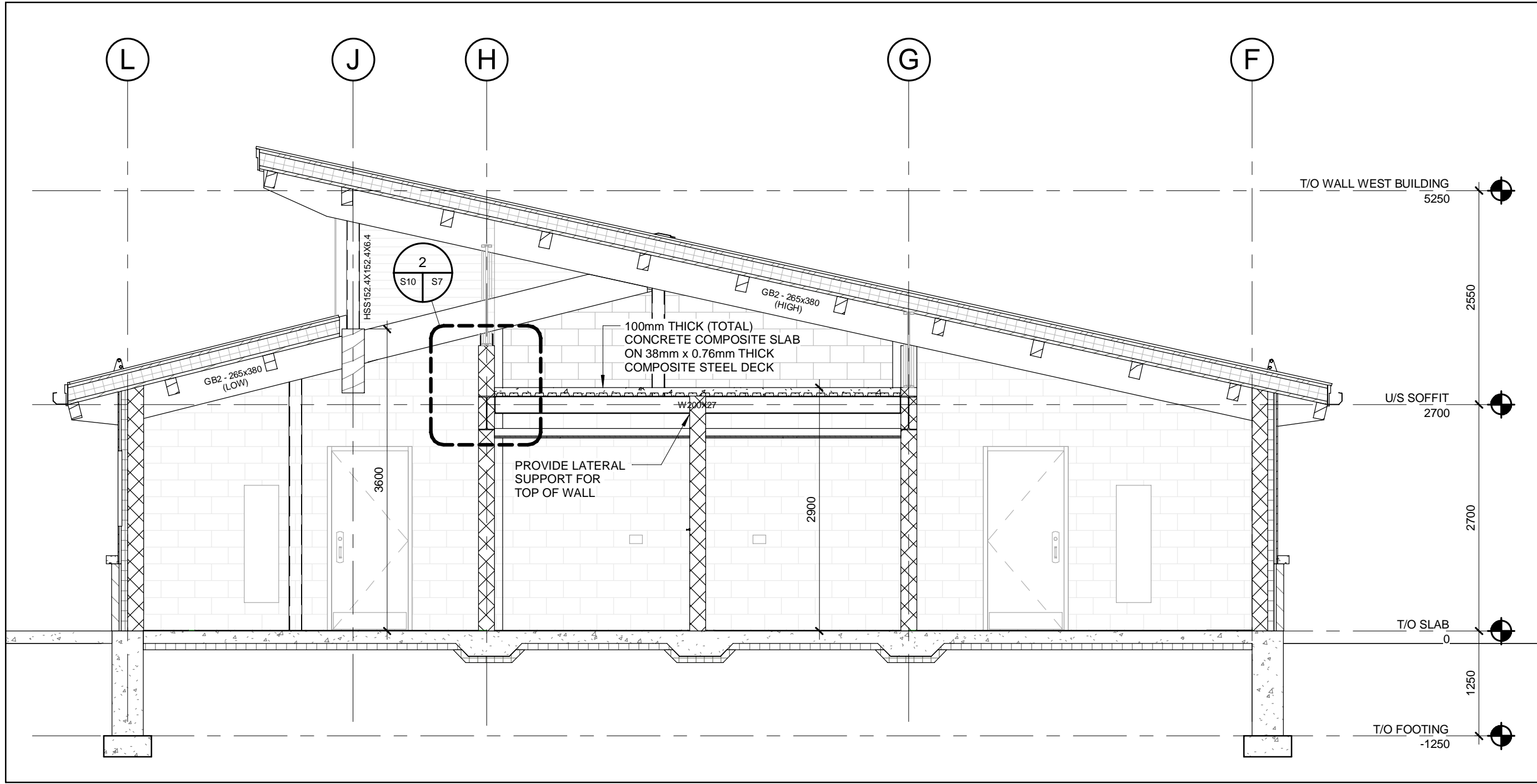
1 STRUCTURAL BUILDING SECTION I  
S2/S10 1:50



2 STRUCTURAL BUILDING SECTION II  
S2/S10 1:50



3 BUILDING SECTION III  
S10 1:50



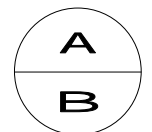
4 BUILDING SECTION IV  
S2/S10 1:50

DRAWING NO. DRAWING NAME

REFERENCE DRAWINGS

0	2018- 06- 19	ISSUED FOR TENDER	JA	RB
NO.	DATE	DESCRIPTION	Drawn By/ Dessine par	Approved / Approuve

REVISIONS



A Detail Number

A Numero de Detail



B Sheet Number

B Sur feuille Numero

LINEAR DIMENSIONS IN  
MILLIMETERS

Dimensions lineaires  
en millimetres



Parcs  
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Parks  
Canada



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PARKS CANADA

Type of Record /  
Type d'enregistrement

Project title / Titre du projet  
**CYPRUS LAKE  
CAMPGROUND - THE  
HUB AMENITY BUILDING**

Drawing title / Titre du Dessin  
**STRUCTURAL -  
CROSS- SECTION**

Plot Scale / Echelle  
1 : 50

Drawn by/ Dessin par  
JA  
Date  
2017- 03- 22

Field Recording by/  
Releve- Terrain par  
-  
Date  
-

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Date  
2018- 05- 31

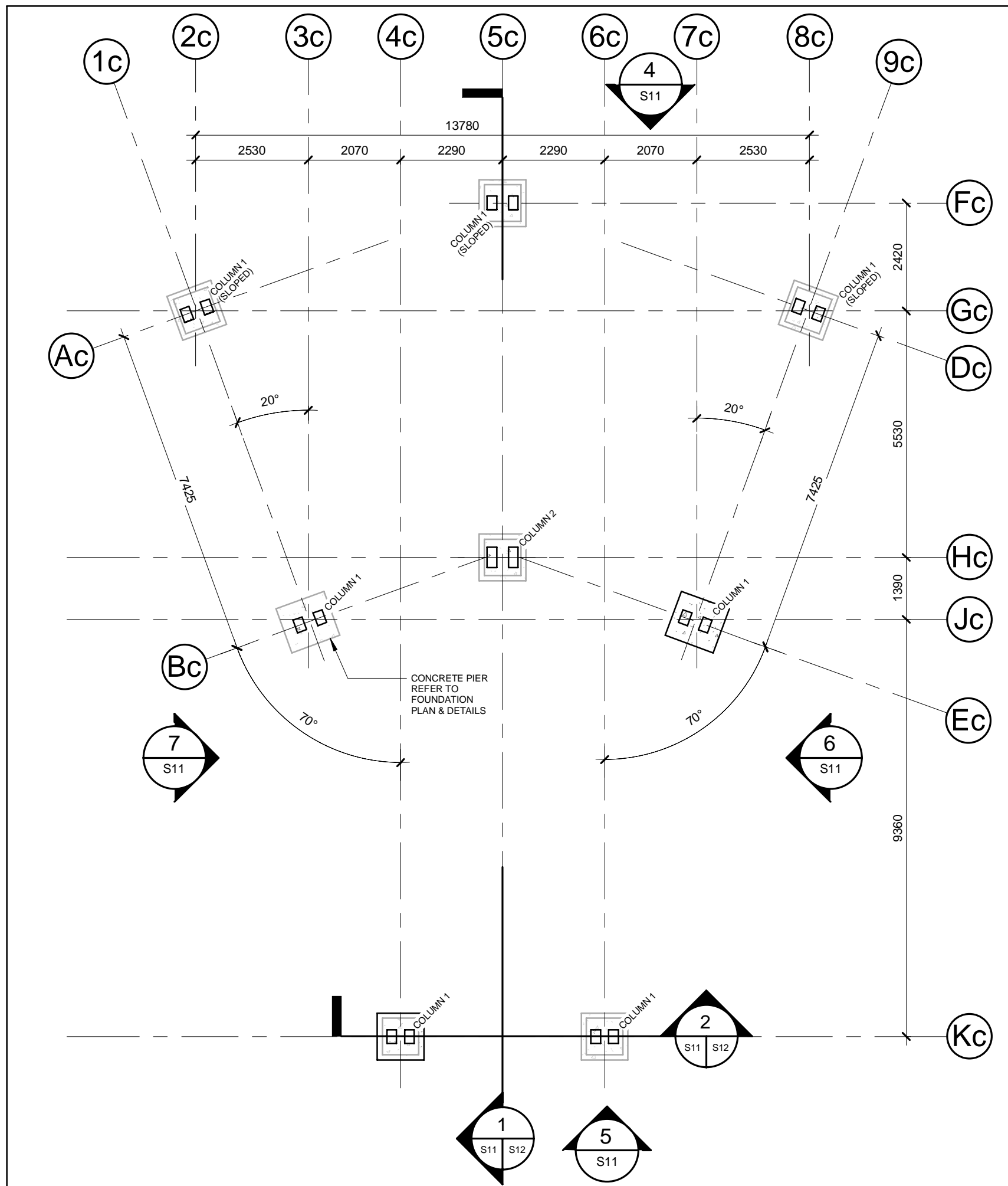
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2018- 05- 31

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Feuille No.

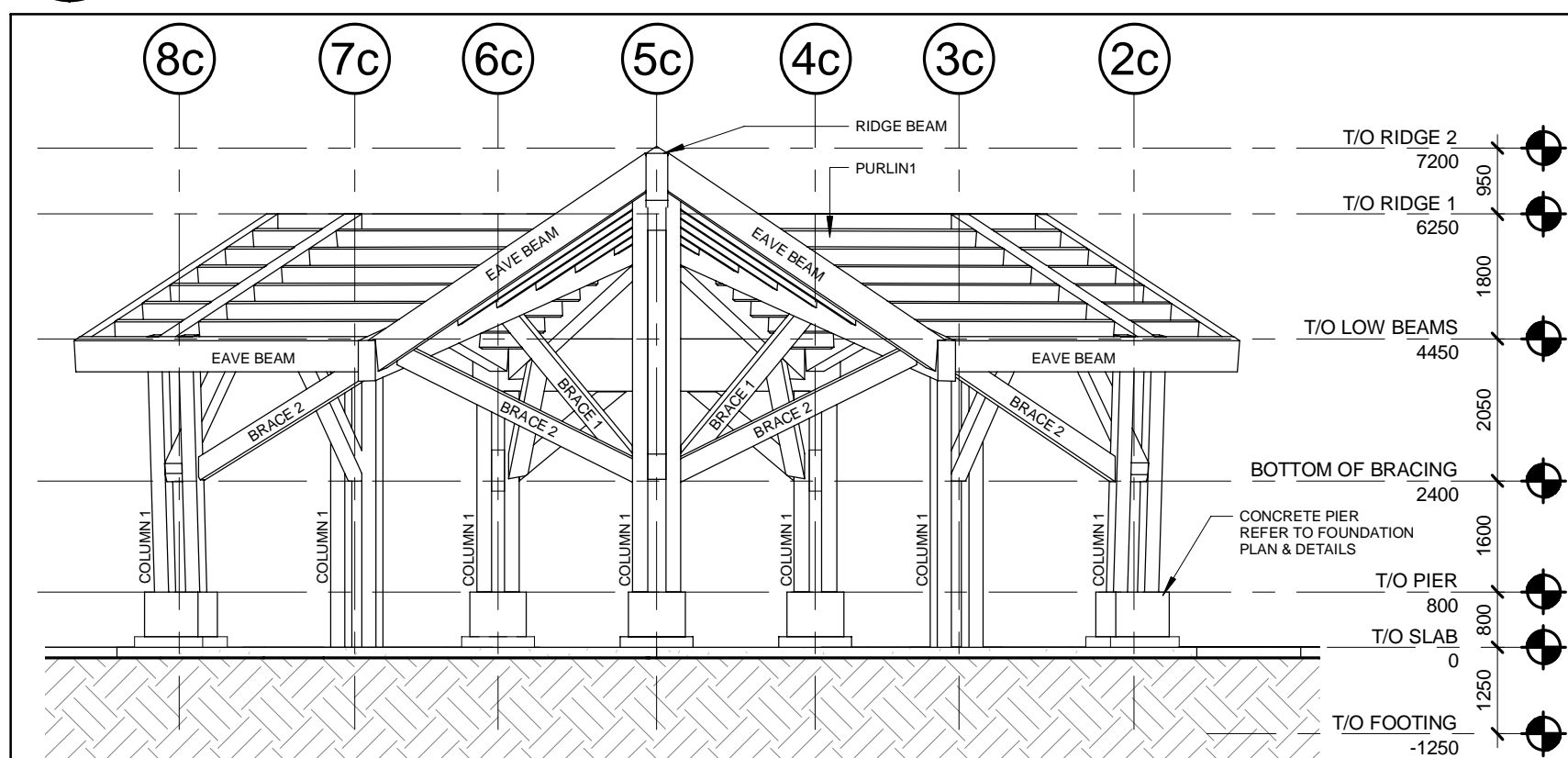
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S10

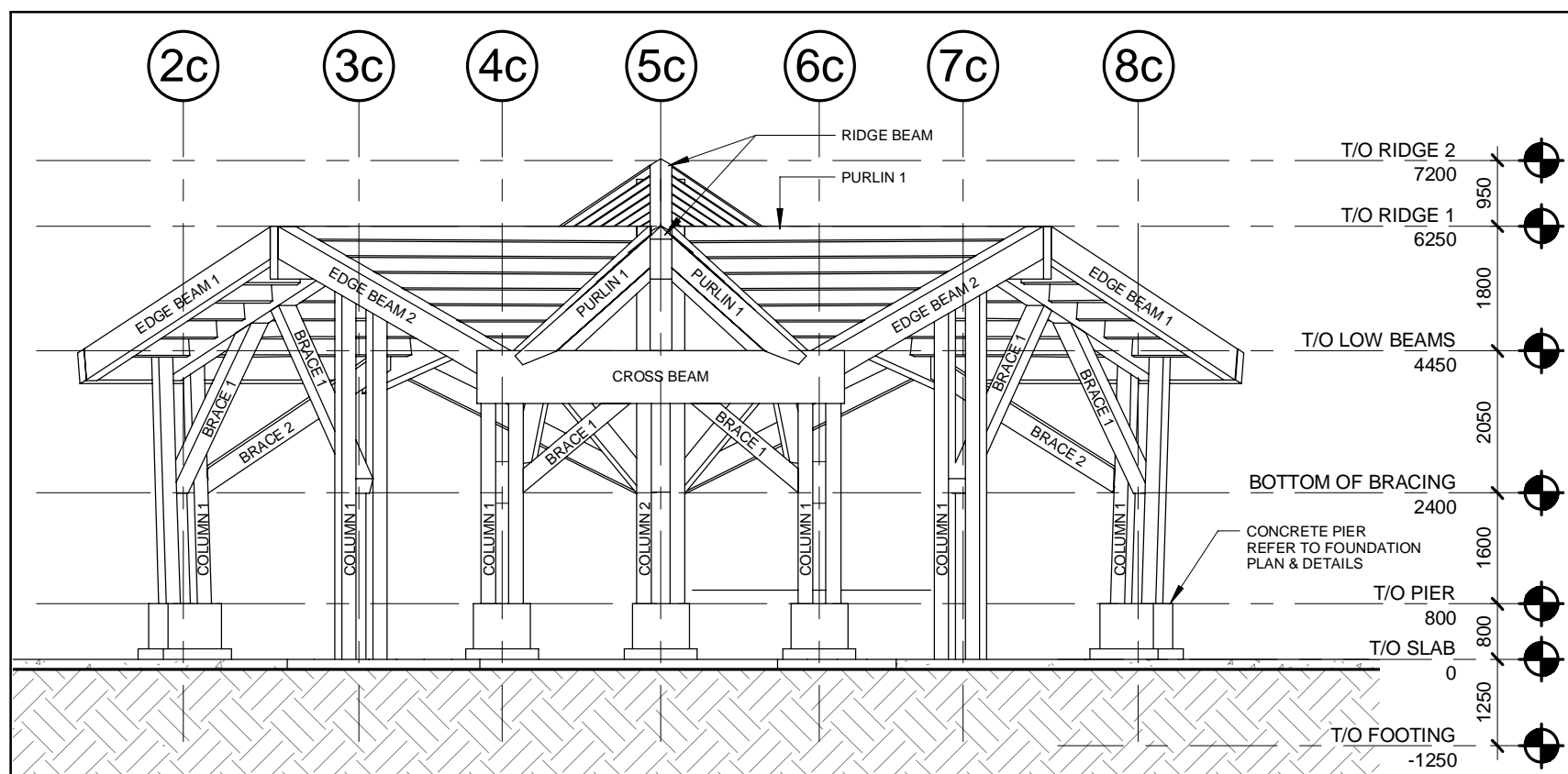




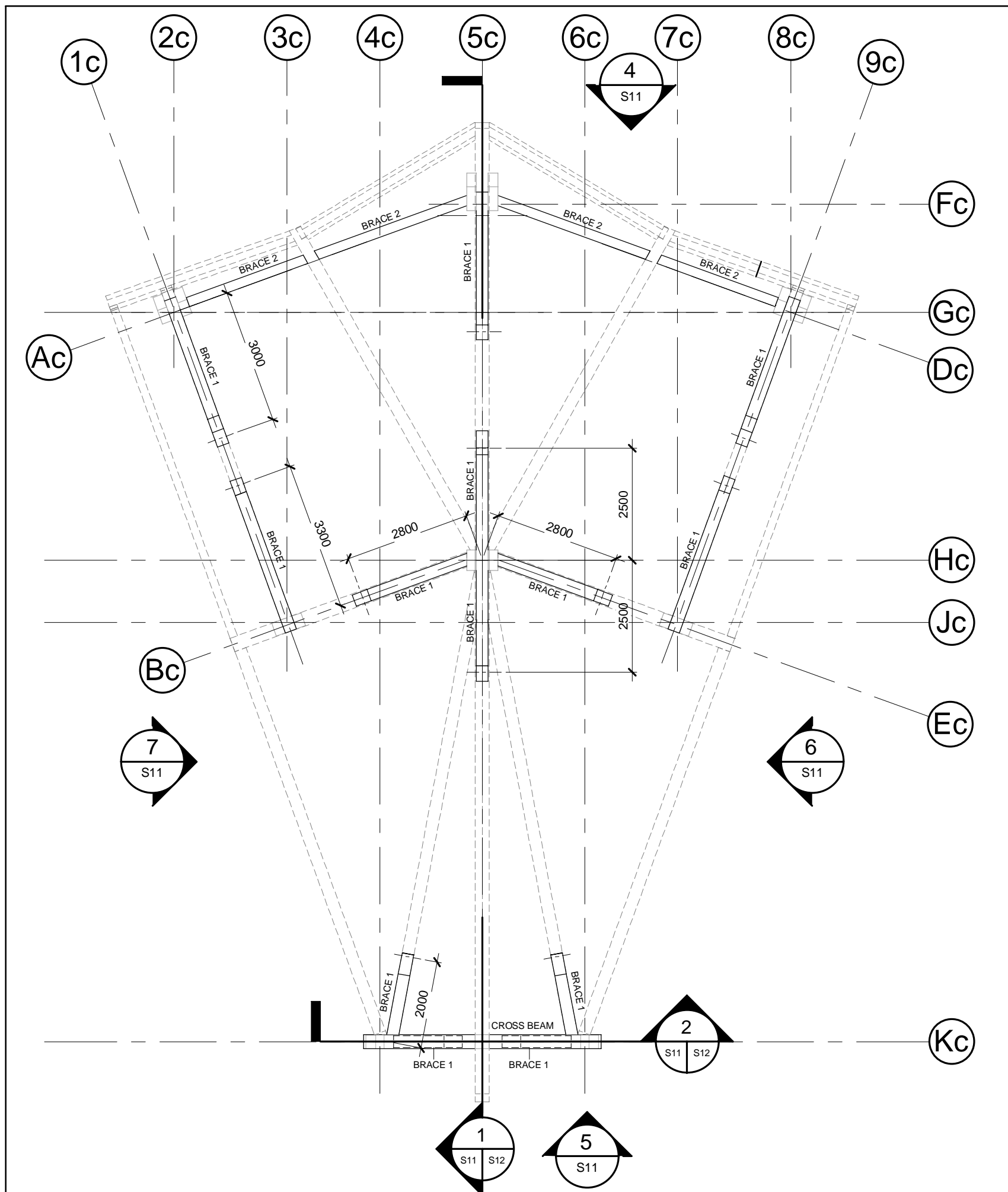
1 FRAMING PLAN AT COLUMN BASE PLATE  
A7/S11 1:100



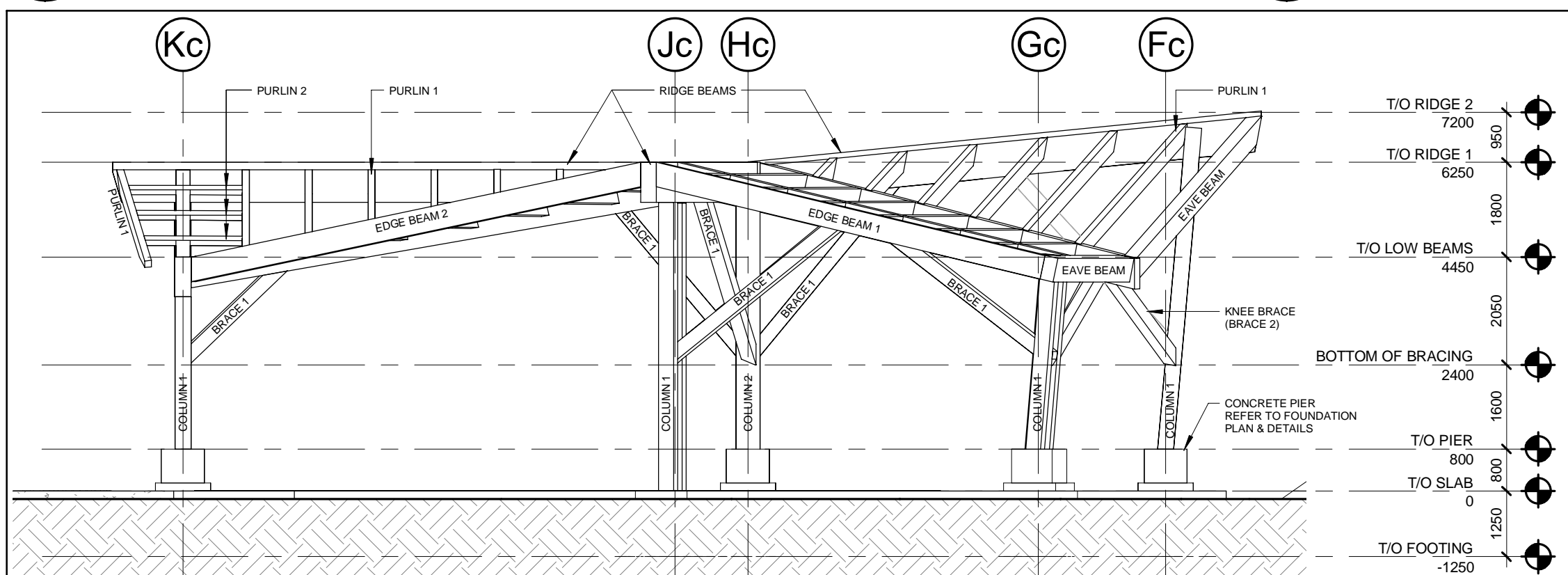
4 ELEVATION I - CANOPY  
S11/S11 1:100



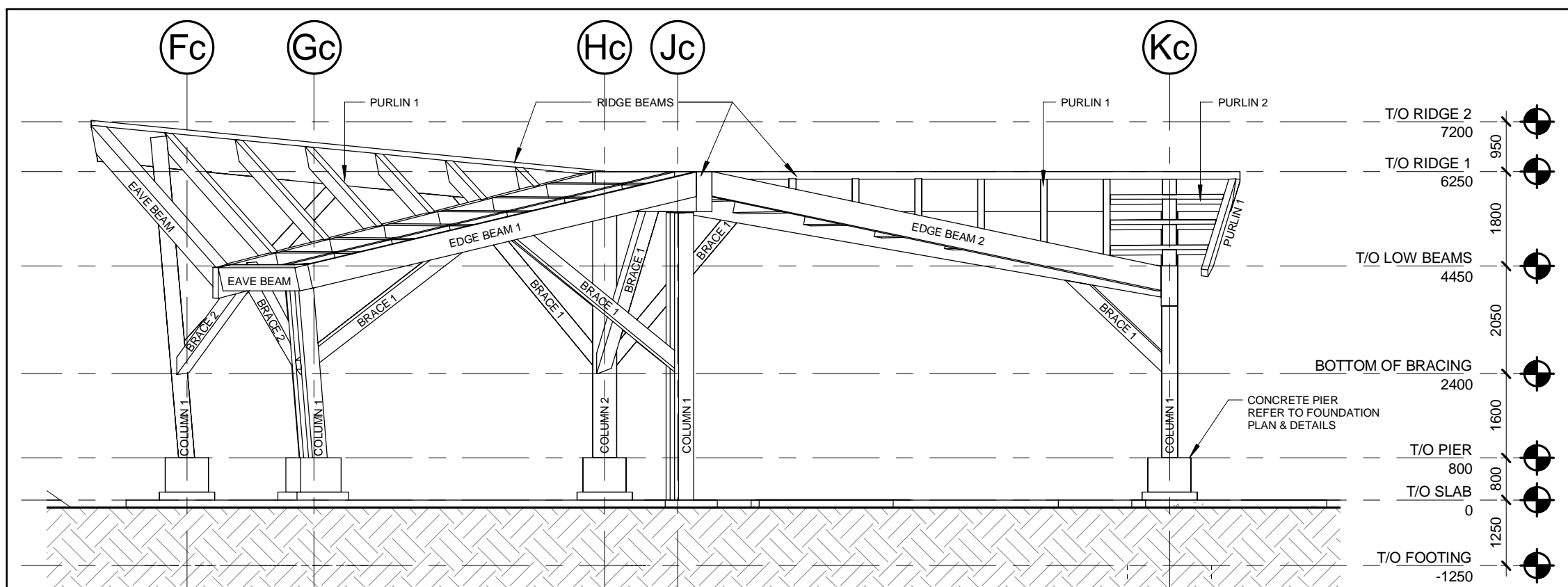
5 ELEVATION II - CANOPY  
S11/S11 1:100



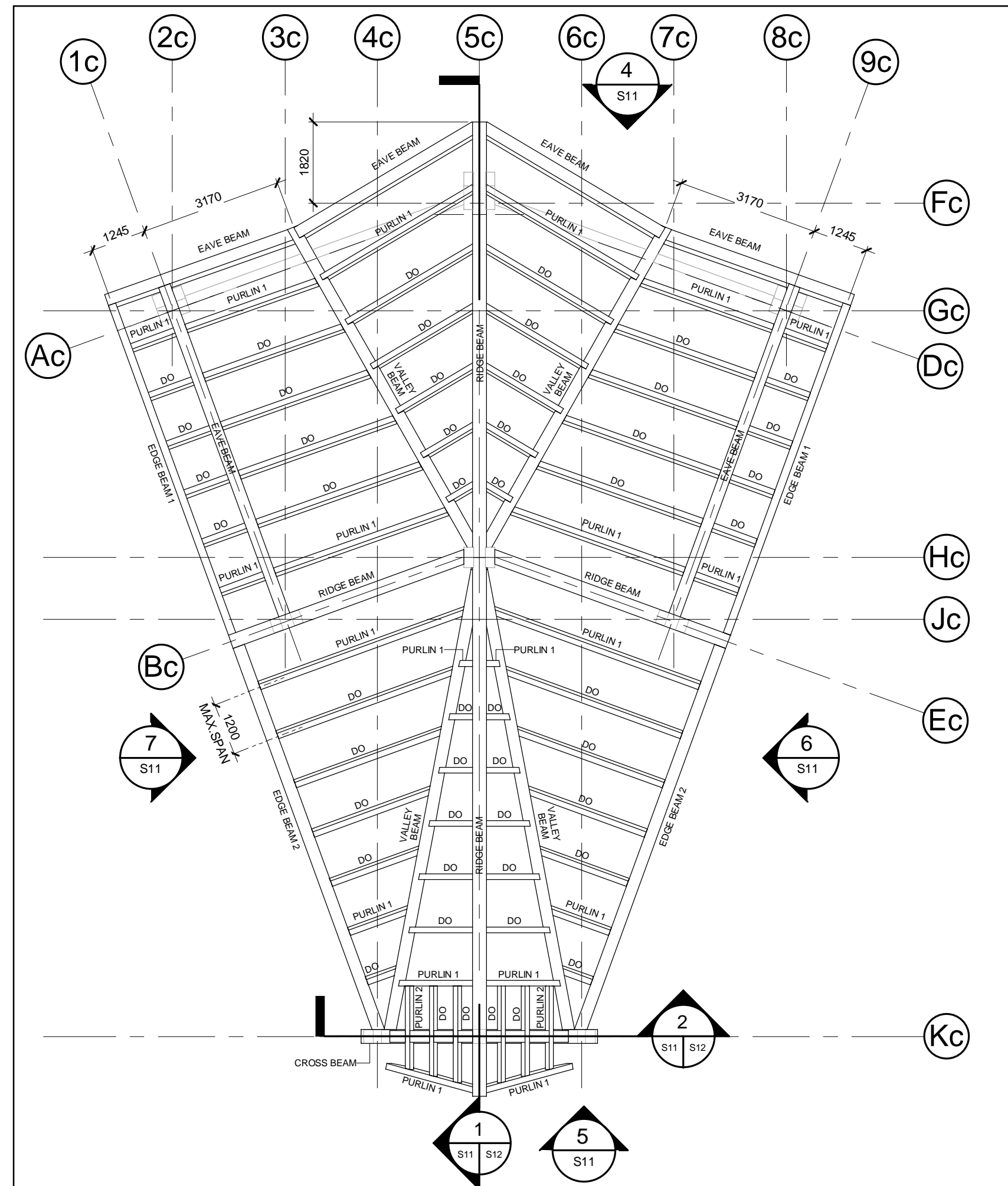
2 FRAMING PLAN AT LOW BEAM  
A7/S11 1:100



6 ELEVATION III - CANOPY  
S11/S11 1:100



7 ELEVATION IV - CANOPY  
S11/S11 1:100



3 FRAMING PLAN AT RIDGE  
A7/S11 1:100

#### 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
<b>TOTAL DL:</b>	<b>1.00 kPa</b>

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-086-14, "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-086-14 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 201-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.

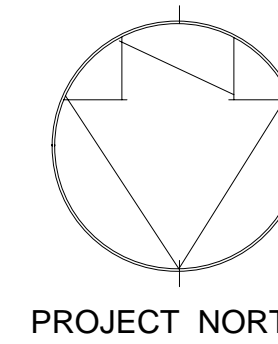
COLUMN 1:	2-215mm W X 304mm D
COLUMN 2:	2-215mm W X 456mm D
COLUMN 3:	315mm W X 315mm D
RIDGE BEAM:	315mm W X 760mm D
EAVE BEAM:	265mm W X 456mm D
VALLEY BEAM:	265mm W X 570mm D
CROSS BEAM:	315mm W X 760mm D
EDGE BEAM 1:	175mm W X 456mm D
EDGE BEAM 2:	265mm W X 456mm D
PURLIN 1:	130mm W X 342mm D
PURLIN 2:	130mm W X 130mm D
BRACE 1:	265mm W X 266mm D
BRACE 2:	215mm W X 304mm D

FOR THE GLULAM FINISH COATING REQUIREMENTS, REFER TO THE ARCHITECTURAL DRAWINGS AND 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

#### REFERENCE DRAWINGS

NO.	DATE	DESCRIPTION	Drawn By/ Dessine par	Approved / Approuve
0	2018-06-19	ISSUED FOR TENDER	JA	RB

#### REVISIONS

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

LINEAR DIMENSIONS IN MILLIMETERS Dimensions lineaires en millimetres



Canada

PARKS CANADA

Type of Record /  
Type d'enregistrement

Project title / Titre du projet

CYPRUS LAKE  
CAMPGROUND - THE  
HUB AMENITY BUILDING

Drawing title / Titre du Dessin

STRUCTURAL - TIMBER  
FRAME CANOPY LAYOUT  
AND ELEVATIONS

Plot Scale / Echelle

1 : 100

Drawn by/ Dessin par Date  
JA 2017-03-22

Field Recording by/  
Releve - Terrain par Date  
- -

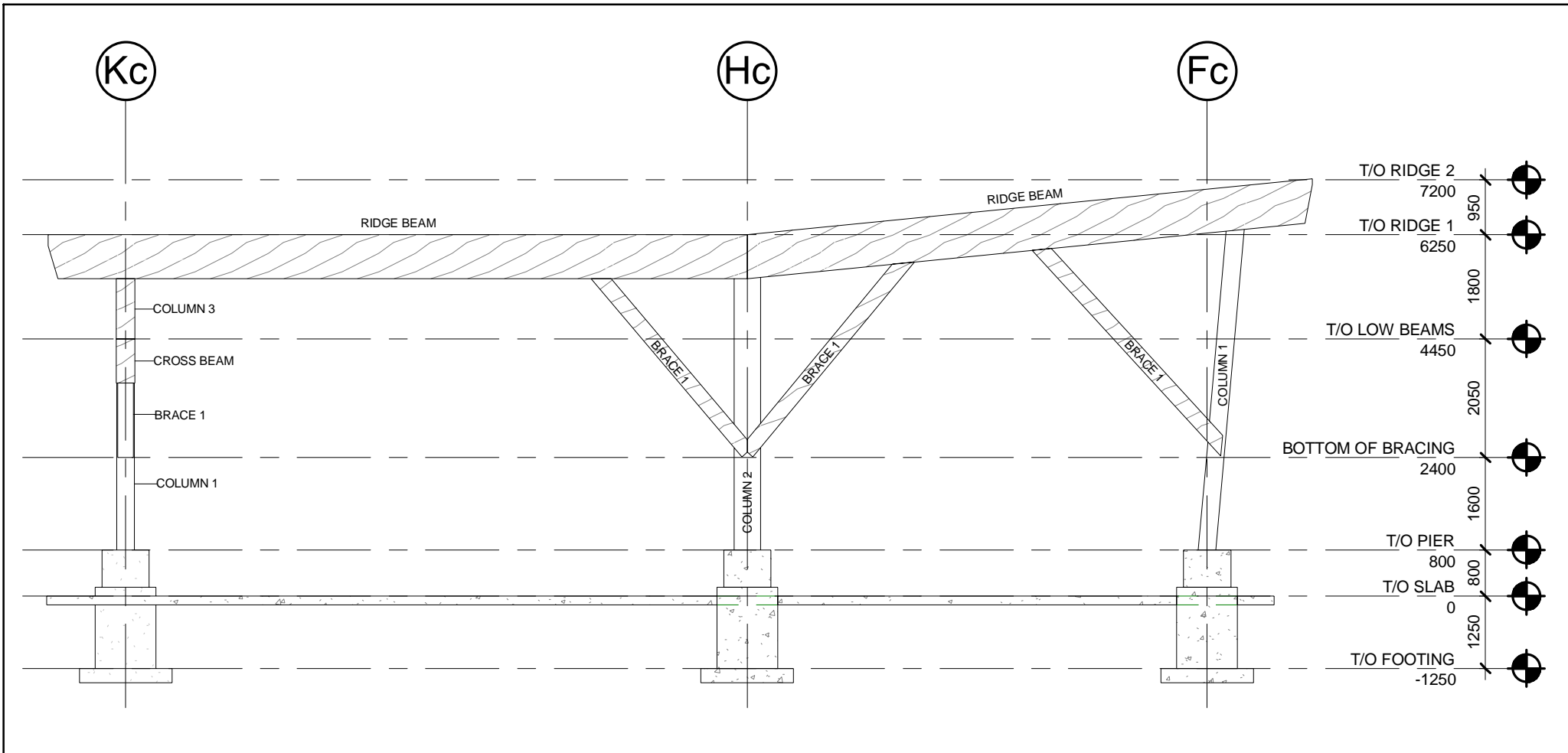
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Checked by/ Verifie par Date  
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Project No./No. du projet Asset No. Sheet No./  
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Drawing Re No./No. du Dessin S11





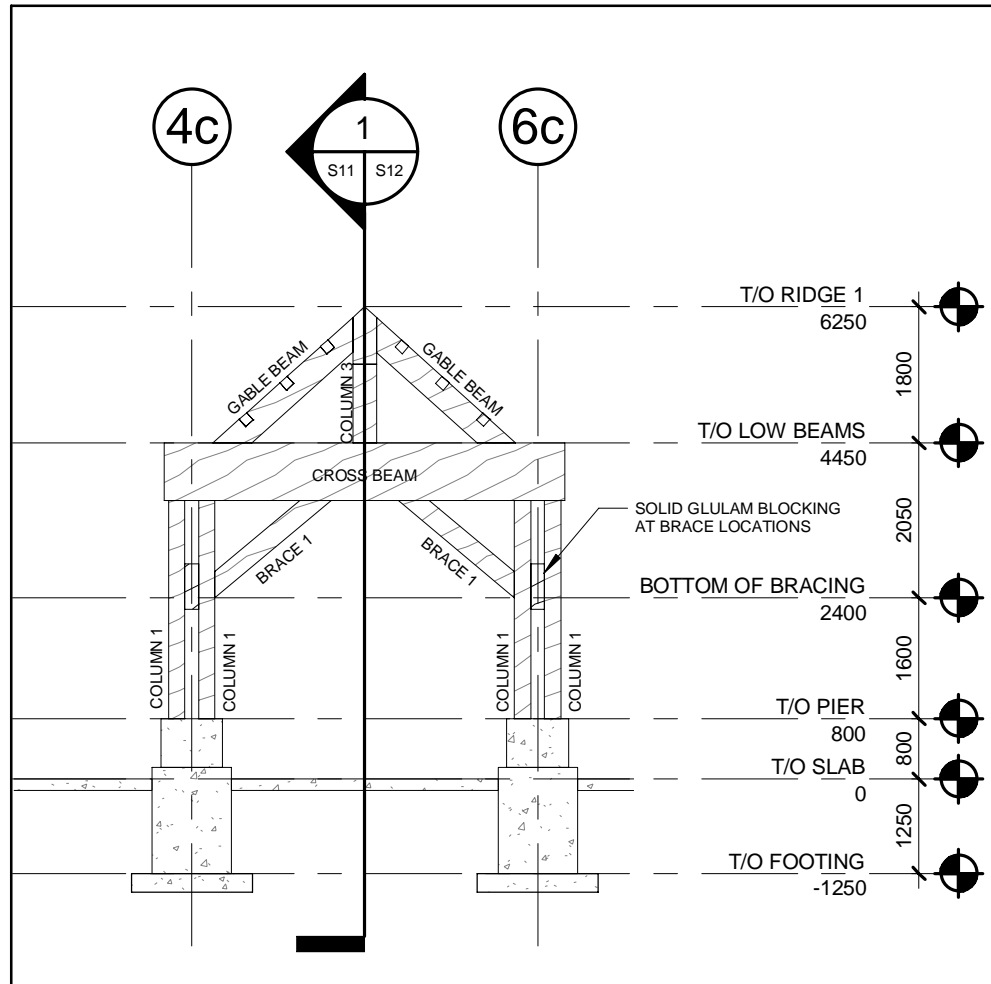
1 FRAMING SECTION - GRID '5c'  
S11 S12 1 : 100



3 STRUCTURAL CANOPY - ISOMETRIC I  
S11 S12



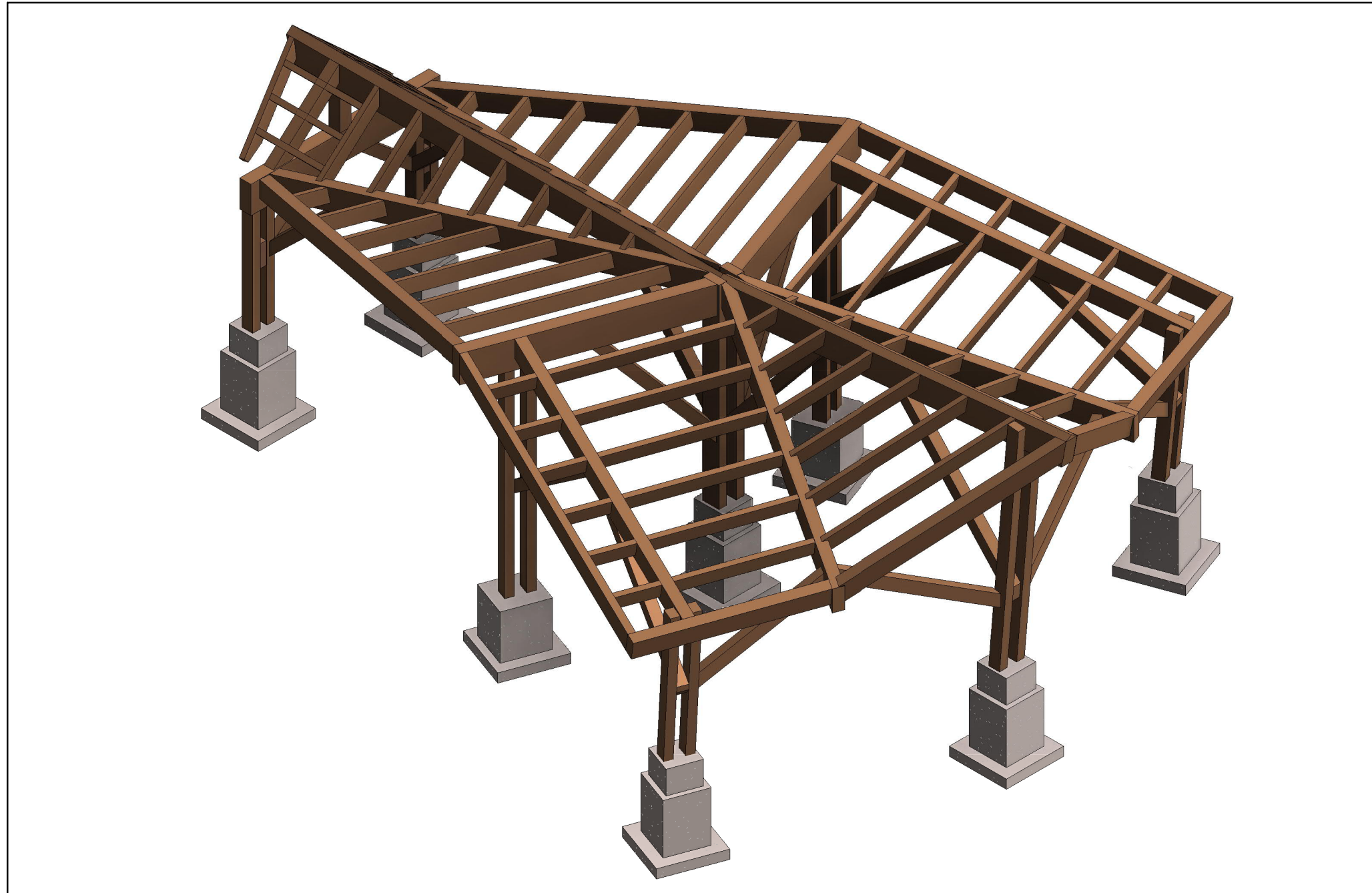
4 STRUCTURAL CANOPY - ISOMETRIC II  
S11 S12



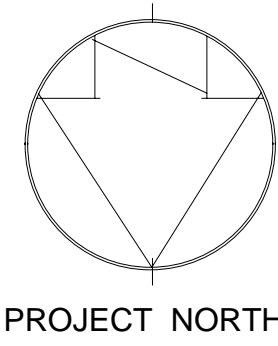
2 FRAMING SECTION - GRID 'Kc'  
S11 S12 1 : 100



5 STRUCTURAL CANOPY - ISOMETRIC III  
S11 S12



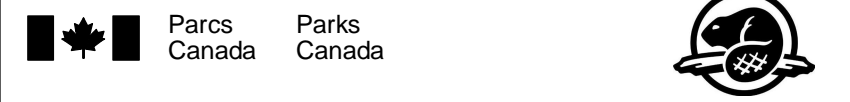
6 STRUCTURAL CANOPY - ISOMETRIC IV  
S11 S12



DRAWING NO.		DRAWING NAME		
REFERENCE DRAWINGS				
0	2018- 06- 19	ISSUED FOR TENDER	JA	RB
NO.	DATE	DESCRIPTION	Drawn By/ Dessine par	Approved / Approuve

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

LINEAR DIMENSIONS IN MILLIMETERS		Dimensions lineaires en millimetres	
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Canadä

PARKS CANADA

Type of Record /  
Type d'enregistrement

Project title / Titre du projet  
**CYPRUS LAKE  
CAMPGROUND - THE  
HUB AMENITY BUILDING**

Drawing title / Titre du Dessin  
**STRUCTURAL - TIMBER  
FRAME CANOPY  
SECTIONS AND  
ISOMETRICS**

Plot Scale / Echelle  
1 : 100

Drawn by/ Dessin par	Date
JA	2017- 03- 22

Field Recording by/ Releve- Temoin par	Date
-	-

Approved by/ Approuve par	Date
AW	2018- 05- 31

Checked by/ Verife par	Date
MM	2018- 05- 31

Project No./No. du projet	Asset No.	Sheet No./ Feuille No.
60554372		

Drawing Re No./No. du Dessin	
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S12



LEGEND - HVAC		
REFER	DESCRIPTION	
	POSITIVE PRESSURE (SUPPLY) DUCT UP	
	POSITIVE PRESSURE (SUPPLY) DUCT UP	
	POSITIVE PRESSURE (SUPPLY) DUCT DOWN	
	NEGATIVE PRESSURE (RETURN/EXHAUST) DUCT UP	
	NEGATIVE PRESSURE (RETURN/EXHAUST) DUCT DOWN	
	NEW DUCT WORK	
	FLEXIBLE DUCTWORK APPROVAL REQ. FOR USE (1500mm MAX.)	
	CROSSHATCHING ON DUCTWORK INDICATES 1" (25mm) DUCT LINING AS SPECIFIED	
	SUPPLY AIR DIFFUSER (SQUARE)	
	SUPPLY AIR DIFFUSER (LAMINAR FLOW)	
	LINEAR OR SLOT DIFFUSER WITH PLENUM	
	SIDEWALL GRILLE	
	RETURN/EXHAUST GRILLE	
	FULL RADIUS DUCT CONNECTION	
	TAP-IN DUCT CONNECTION	
	ROUND DUCT CONNECTION	
	TURNING VANES	
	FIRE DAMPER	
	MOTORIZED DAMPER	
	BALANCING DAMPER	
	VOLUME DAMPER	
	SPLITTER DAMPER	
	OPEN ENDED DUCT	
	THERMOSTAT / SENSOR	
	OCCUPANCY SENSOR	
	THERMOSTAT c/w TAMPERPROOF COVER	
	UNDERCUT	
	CAP	
	SILENCER	
	CROSS TALK SILENCER	
	BOTTOM OF DUCT	
	BOTTOM OF LOUVRE	

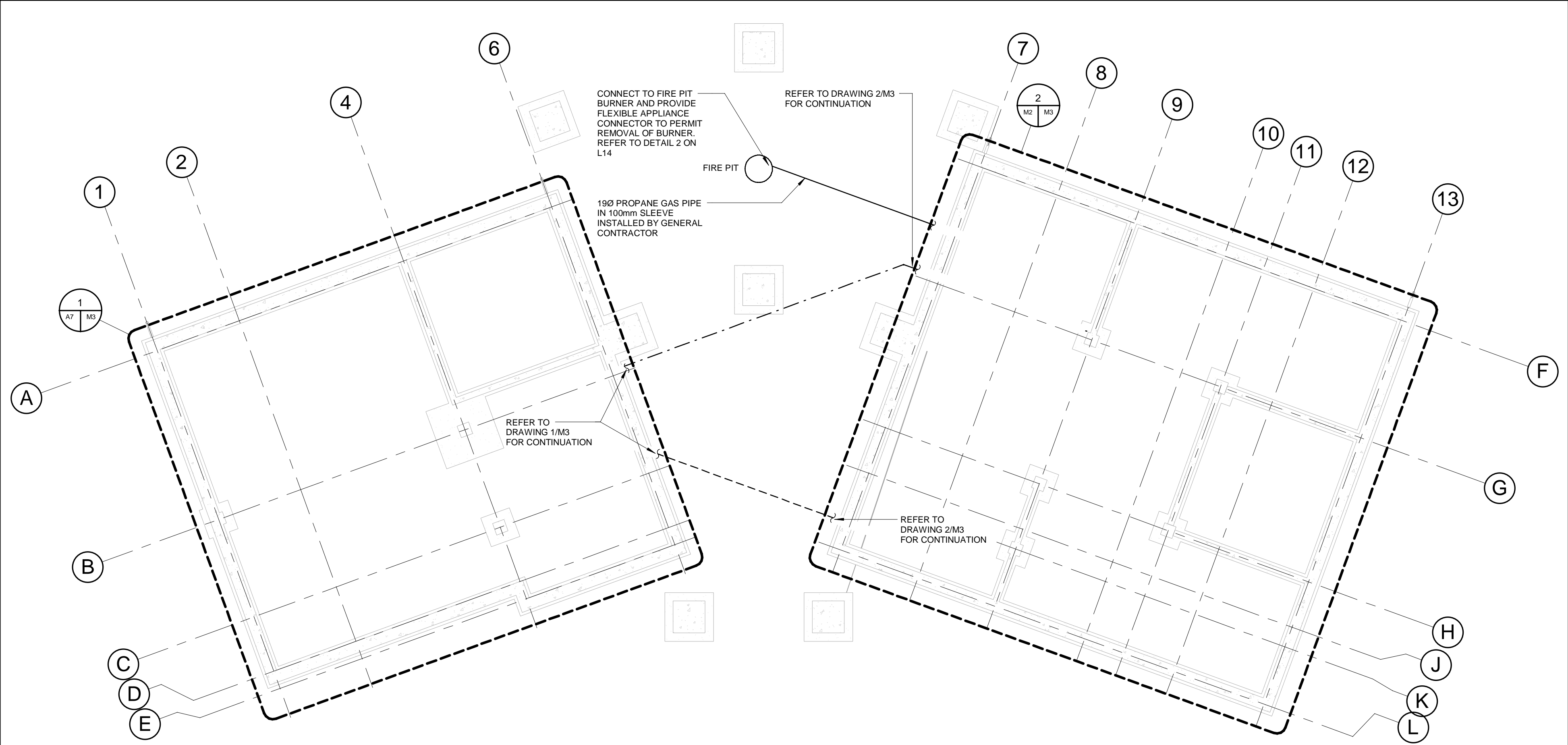
LEGEND - SYMBOL TAG		
SYMBOL	DESCRIPTION	EQUIPMENT TAG
	TYPE AIR FLOW	DIFFUSER, GRILLE, AND LOUVRE TAG

LEGEND - PIPING	
REFER	DESCRIPTION
	EXISTING PIPING
	NON-POTABLE WATER PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER RECIRC. PIPING
	VENT PIPING
	SANITARY PIPING ABOVE FLOOR
	SANITARY PIPING BELOW FLOOR
	PROPANE PIPING
	FORCE MAIN
	STORM PIPING ABOVE FLOOR
	STORM PIPING BELOW FLOOR
	CONDENSATE PIPING
	PUMPED DISCHARGE PIPING
	TEMPERED WATER PIPING
	TEMPERED WATER RECIRC. PIPING
	HOT WATER SUPPLY
	HOT WATER RETURN
	REFRIGERANT SUCTION
	REFRIGERANT LIQUID
	TEE
	ELBOW - 90°
	ELBOW - 45°
	WYE
	REDUCER / INCREASER
	UNION
	FLANGE
	CAPPED PIPE
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	HUB DRAIN
	ROOF DRAIN
	ELEVATOR PIT DRAIN c/w BACK WATER VALVE
	CLEAN OUT (IN FLOOR)
	CLEAN OUT (IN LINE OR STACK)
	WATER METER
	GAS METER
	PIPE DOWN
	PIPE UP
	PIPE TEE
	DENOTES EXISTING
	ISOLATION VALVE
	THROTTILING VALVE
	PUMP
	VERTICAL INLINE PUMP
	CHECK VALVE
	CIRCUIT BALANCING VALVE
	3-WAY VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	SOLENOID VALVE
	STRAINER
	3-WAY CONTROL VALVE
	2-WAY CONTROL VALVE
	SAFETY (S) OR RELIEF (R) VALVE
	DRAIN COCK
	HOSE BIB c/w VACUUM BREAKER
	WALL HYDRANT
	TRENCH DRAIN
	BACK WATER VALVE
	VENT THROUGH ROOF
	PRESSURE GAUGE
	CHLORINE ANALYZER
	THERMOMETER
	PORTABLE FIRE EXTINGUISHER (WALL HUNG / SURFACE MOUNTED)
	PORTABLE FIRE EXTINGUISHER IN CABINET
	PRESSURE REDUCING VALVE
	GLYCOL PIPING

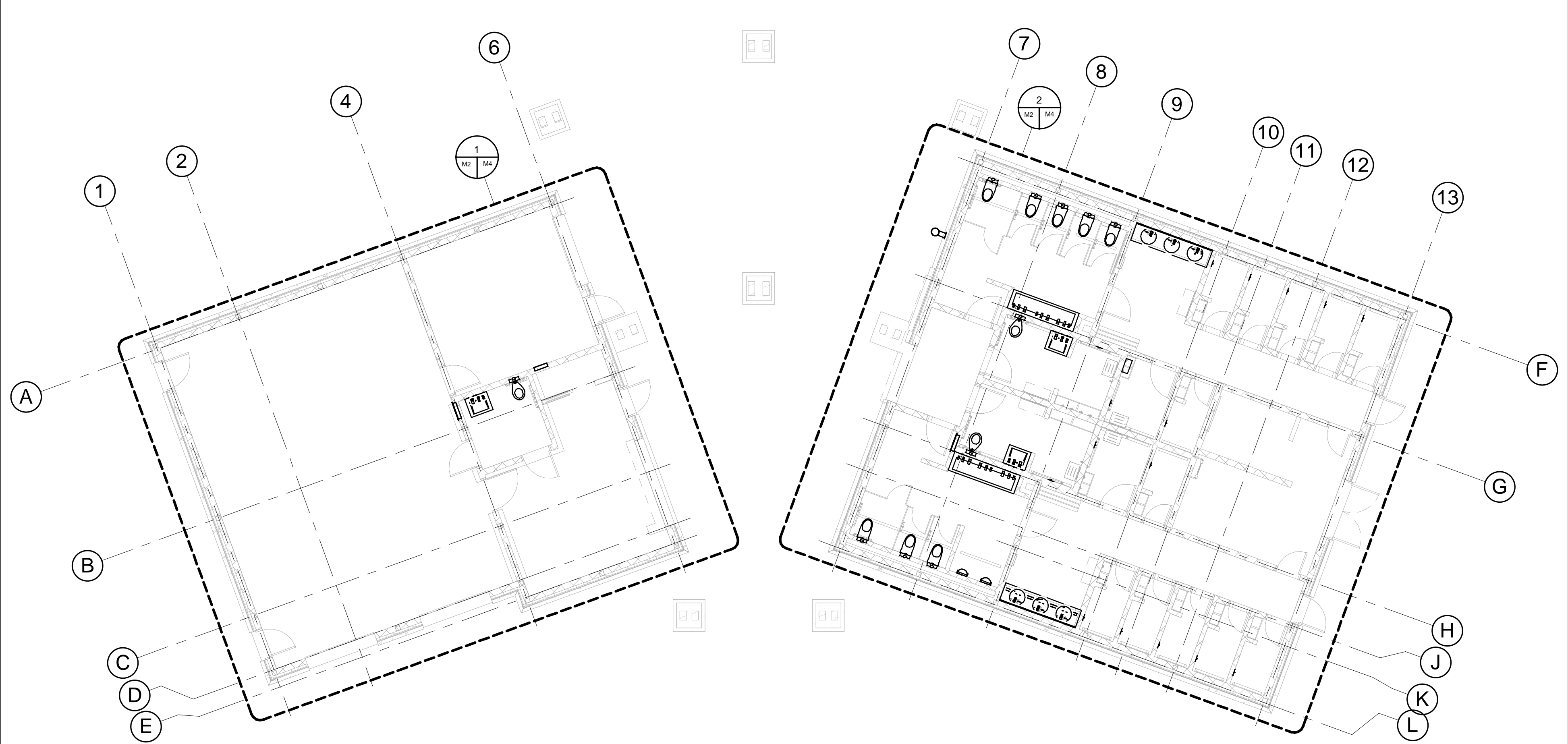
- GENERAL NOTES:
- PERFORM ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF ALL APPLICABLE CODES, STANDARDS AND BULLETINS AND TO THE LOCAL AUTHORITIES REQUIREMENTS.
  - THE CONTRACTOR SHALL PROVIDE A TRAP SEAL PRIMER AS SPECIFIED FOR ALL FLOOR DRAINS, FUNNEL FLOOR DRAINS, PIT DRAINS AND HUB DRAINS AS MAY BE APPLICABLE. COORDINATE ELECTRICAL TRAP SEAL PRIMERS WITH THE ELECTRICAL TRADE(S).
  - THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND THE DOCUMENTS PERTAINING TO THE WORK OF OTHER TRADES.
  - OBTAIN EXACT DIMENSIONS FROM SITE MEASUREMENTS. DO NOT SCALE THESE DRAWINGS.
  - 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.
  - 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.
  - PROVIDE ACCESS DOORS AS REQUIRED FOR ALL CONCEALED SERVICEABLE COMPONENTS LOCATED ABOVE, BEHIND OR BELOW INACCESSIBLE CONSTRUCTION.
  - ALL PLUMBING FIXTURES AND DRAINS SHALL BE TRAPPED AND VENTED IN ACCORDANCE WITH THE NATIONAL BUILDING CODE AND ONTARIO BUILDING CODE.

DRAWING NO. DRAWING NAME				
REFERENCE DRAWINGS				
0	2018- 06- 19	ISSUED FOR TENDER	NH	BG
NO.	DATE	DESCRIPTION	Drawn by/ Dessine par	Approved / Approuve
REVISIONS				
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LINEAR DIMENSIONS IN MILLIMETERS		Dimensions lineaires en millimetres		
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Canadä				
PARKS CANADA				
Type of Record / Type d'enregistrement				
Project title / Titre du projet CYPRUS LAKE CAMPGROUND - THE HUB AMENITY BUILDING				
Drawing title / Titre du Dessin MECHANICAL - LEGEND AND GENERAL NOTES				
Plot Scale / Echelle 1 : 1				
Drawn by/ Dessin par NH		Date 2017- 12- 01		
Field Recording by/ Releve- Temoïn par		Date		
Approved by/ Approuve par BJ		Date 2017- 04- 05		
Checked by/ Verife par BG		Date 2017- 04- 05		
Project No./No. du projet 60554372		Asset No.		Sheet No./ Feuille No.
Drawing Re No./No. du Dessin			M1	





1 FOUNDATION PLAN - PLUMBING AND DRAINAGE  
A7 M2 1:100

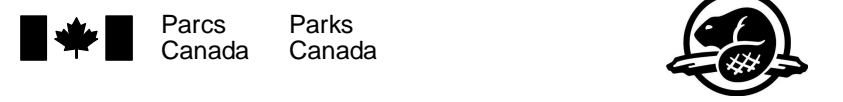


2 FLOOR PLAN - PLUMBING AND DRAINAGE  
A7 M2 1:100

DRAWING NO.		DRAWING NAME		
REFERENCE DRAWINGS				
0	2018- 06- 19	ISSUED FOR TENDER	NH	BG
NO.	DATE	DESCRIPTION	Drawn by/ Dessine par	Approved / Approuve

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

LINEAR DIMENSIONS IN MILLIMETERS  
Dimensions lineaires en millimetres



Canada

PARKS CANADA

Type of Record /  
Type d'enregistrement

Project title / Titre du projet  
CYPRUS LAKE  
CAMPGROUND - THE  
HUB AMENITY BUILDING

Drawing title / Titre du Dessin  
MECHANICAL - FLOOR  
PLANS

Plot Scale / Echelle  
1 : 100

Drawn by/ Dessin par  
NH  
Date  
2017- 12- 01

Field Recording by/  
Releve- Temoin par  
Date

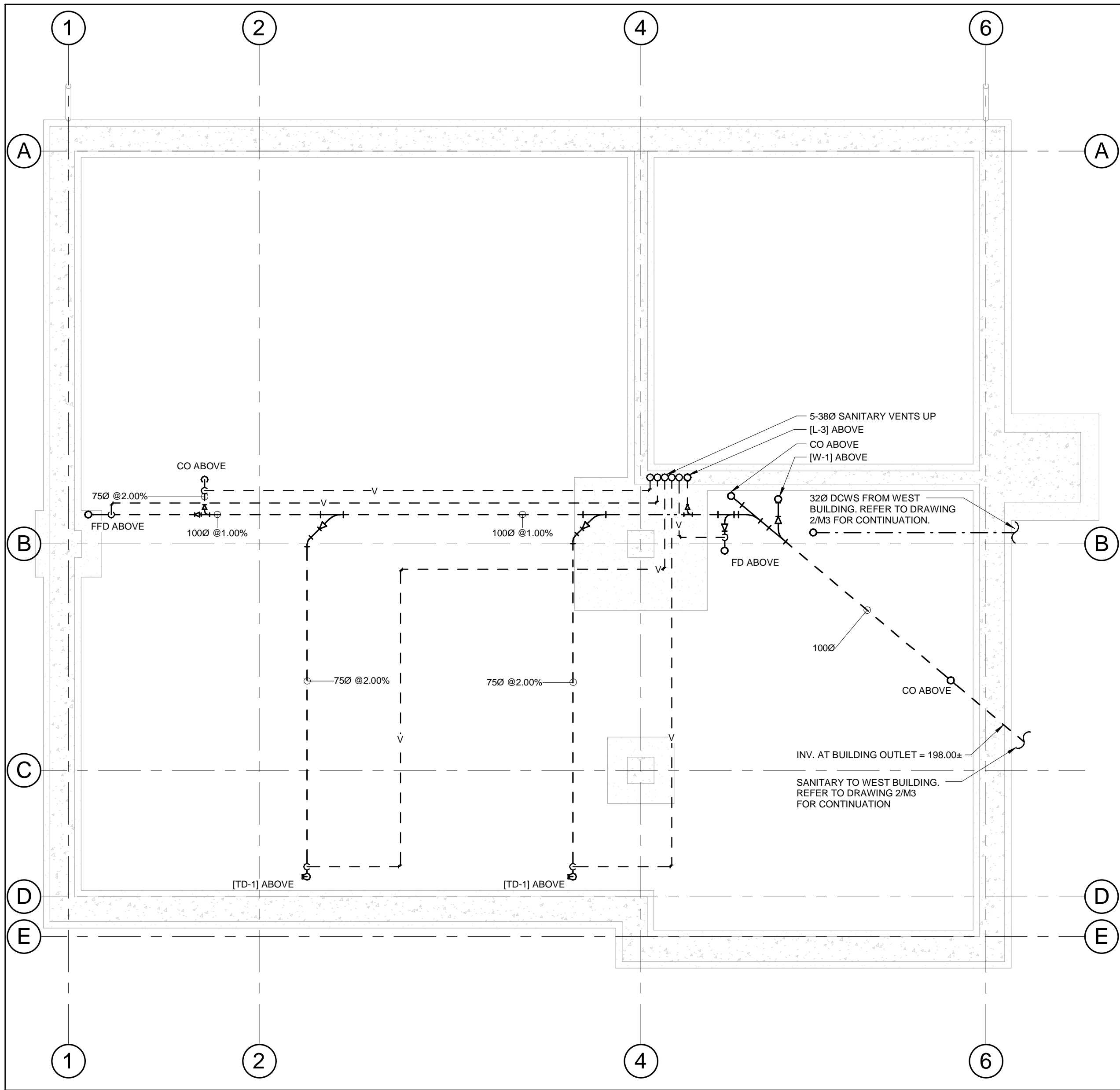
Approved by/ Approuve par  
BJ  
Date  
2017- 12- 01

Checked by/ Verife par  
BG  
Date  
2017- 12- 01

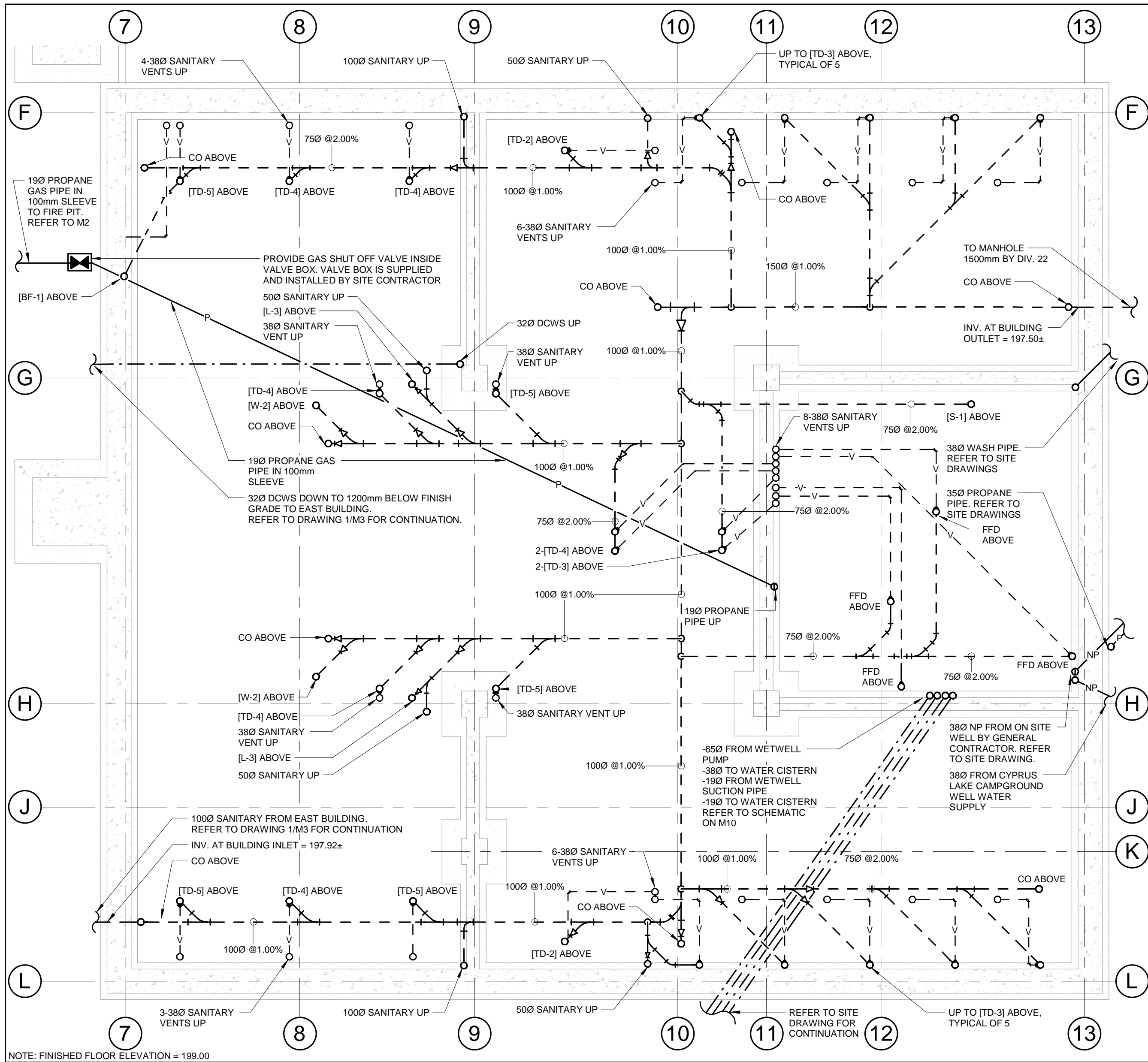
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60554372  
Asset No.  
Sheet No./  
Feuille No.

Drawing Re No./No. du Dessin  
M2

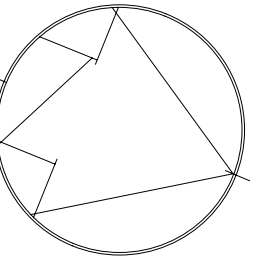




1 EAST BUILDING - FOUNDATION PLAN - PLUMBING AND DRAINAGE  
A7 M3 1:50



2 WEST BUILDING - FOUNDATION PLAN - PLUMBING AND DRAINAGE  
A7 M3 1:50



DRAWING NO. DRAWING NAME

REFERENCE DRAWINGS

0	2018- 06- 19	ISSUED FOR TENDER	NH	BG
NO.	DATE	DESCRIPTION	Drawn by/ Dessine par	Approved Approuvé

REVISIONS

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

LINEAR DIMENSIONS IN MILLIMETERS Dimensions lineaires en millimetres



Canada

PARKS CANADA

Type of Record /  
Type d'enregistrement

Project title / Titre du projet  
**CYPRUS LAKE  
CAMPGROUND - THE  
HUB AMENITY BUILDING**

Drawing title / Titre du Dessin  
**MECHANICAL -  
PLUMBING AND  
DRAINAGE FOUNDATION  
PLANS**

Plot Scale / Echelle  
1 : 50

Drawn by/ Dessin par  
NH Date  
2017- 12- 01

Field Recording by/  
Releve- Temoin par Date

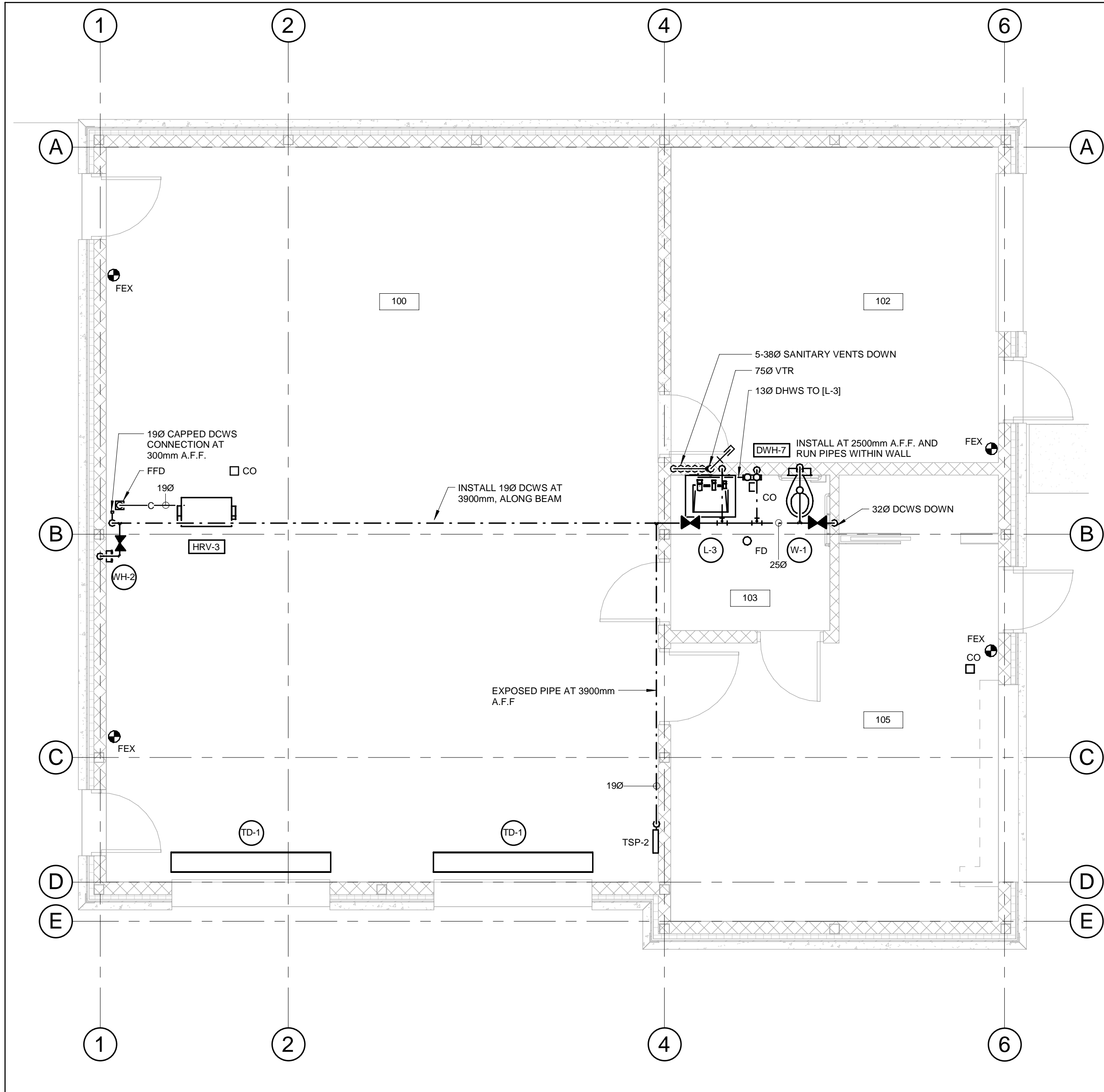
Approved by/ Approuvé par  
BJ Date  
2017- 04- 05

Checked by/ Verife par  
BG Date  
2017- 04- 05

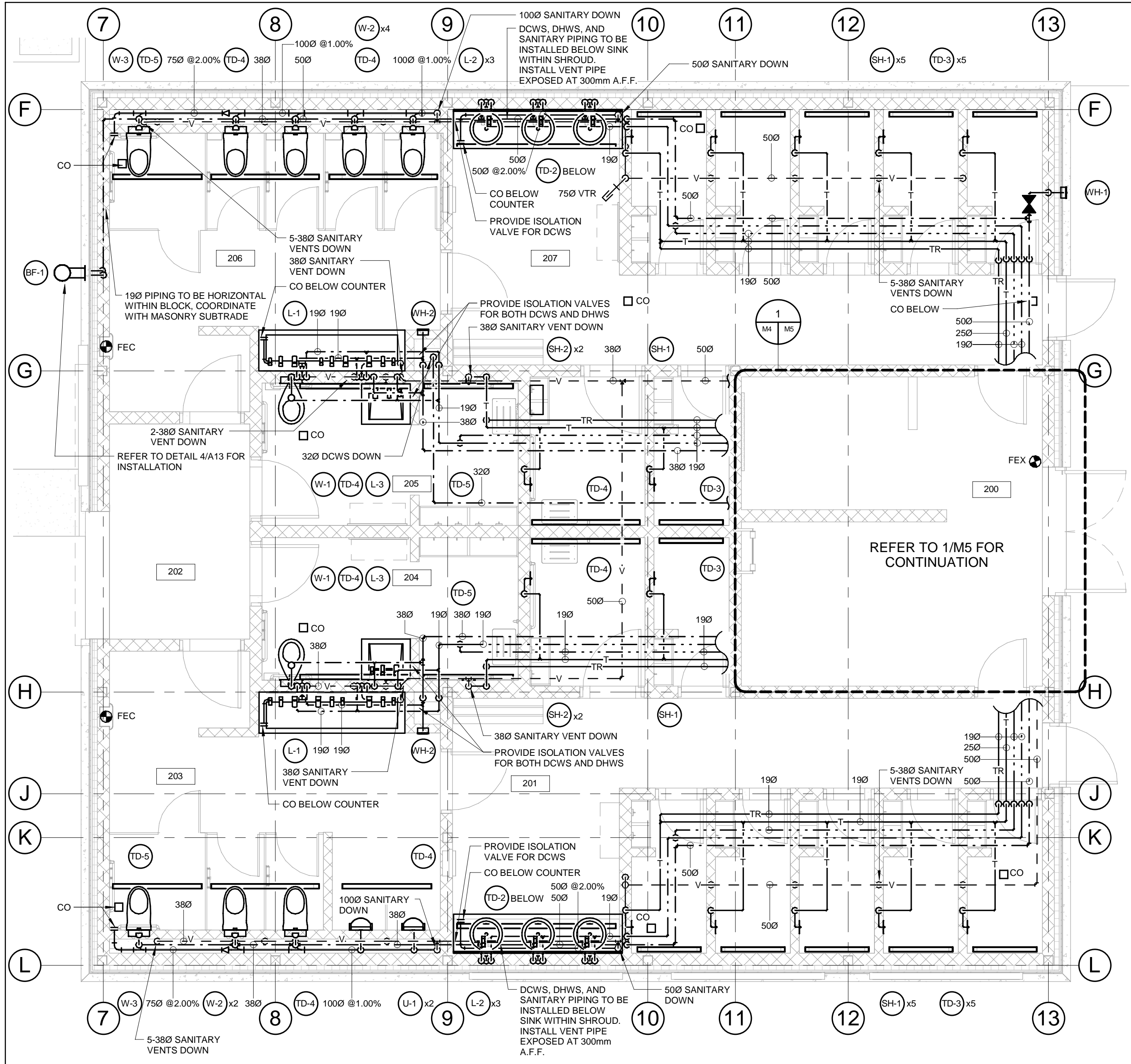
Project No./No. du projet Asset No. Sheet No./  
60554372 Feuille No.

Drawing Re No./No. du Dessin  
**M3**





1 EAST BUILDING - PLUMBING AND DRAINAGE  
A7/M 1:50



2 WEST BUILDING - PLUMBING AND DRAINAGE  
A7/M 1:50

DRAWING NO. DRAWING NAME

REFERENCE DRAWINGS

0	2018-06-19	ISSUED FOR TENDER	NH	BG
NO.	DATE	DESCRIPTION	Drawn by/ Dessine par	Approved Approuvé

REVISIONS

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

LINEAR DIMENSIONS IN MILLIMETERS Dimensions lineaires en millimetres



Canada

PARKS CANADA

Type of Record /  
Type d'enregistrement

Project title / Titre du projet  
**CYPRUS LAKE  
CAMPGROUND - THE  
HUB AMENITY BUILDING**

Drawing title / Titre du Dessin  
**MECHANICAL -  
PLUMBING AND  
DRAINAGE FLOOR PLANS**

Plot Scale / Echelle  
1 : 50

Drawn by/ Dessin par  
NH Date  
2017-12-01

Field Recording by/  
Releve- Terrain par Date

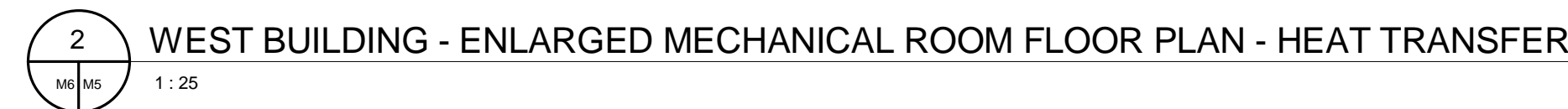
Approved by/ Approuvé par  
BJ Date  
2017-04-05

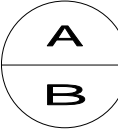



Checked by/ Verifié par  
BG Date  
2017-04-05

Project No./No. du projet Asset No. Sheet No./  
Feuille No.

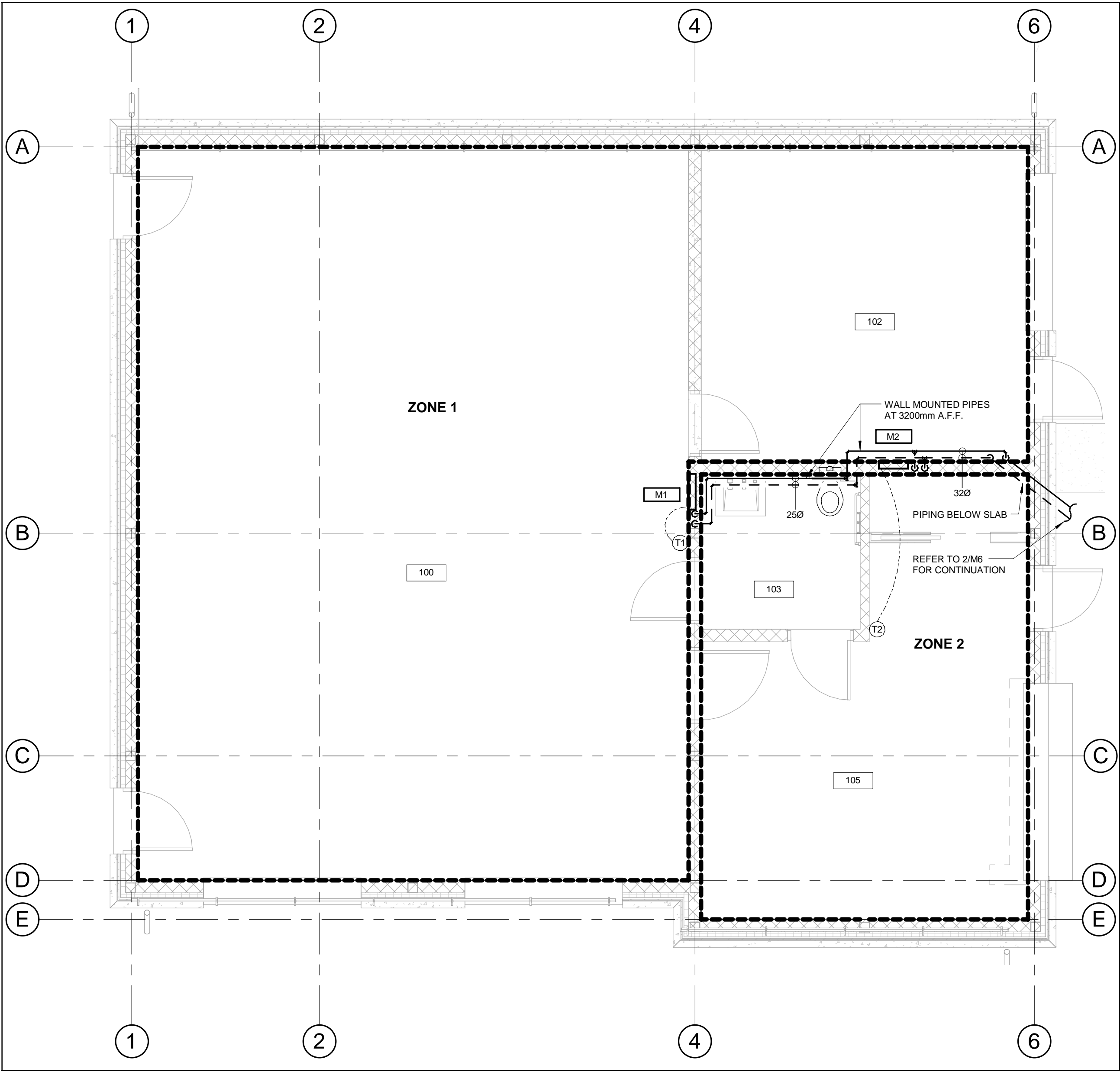
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**M4**



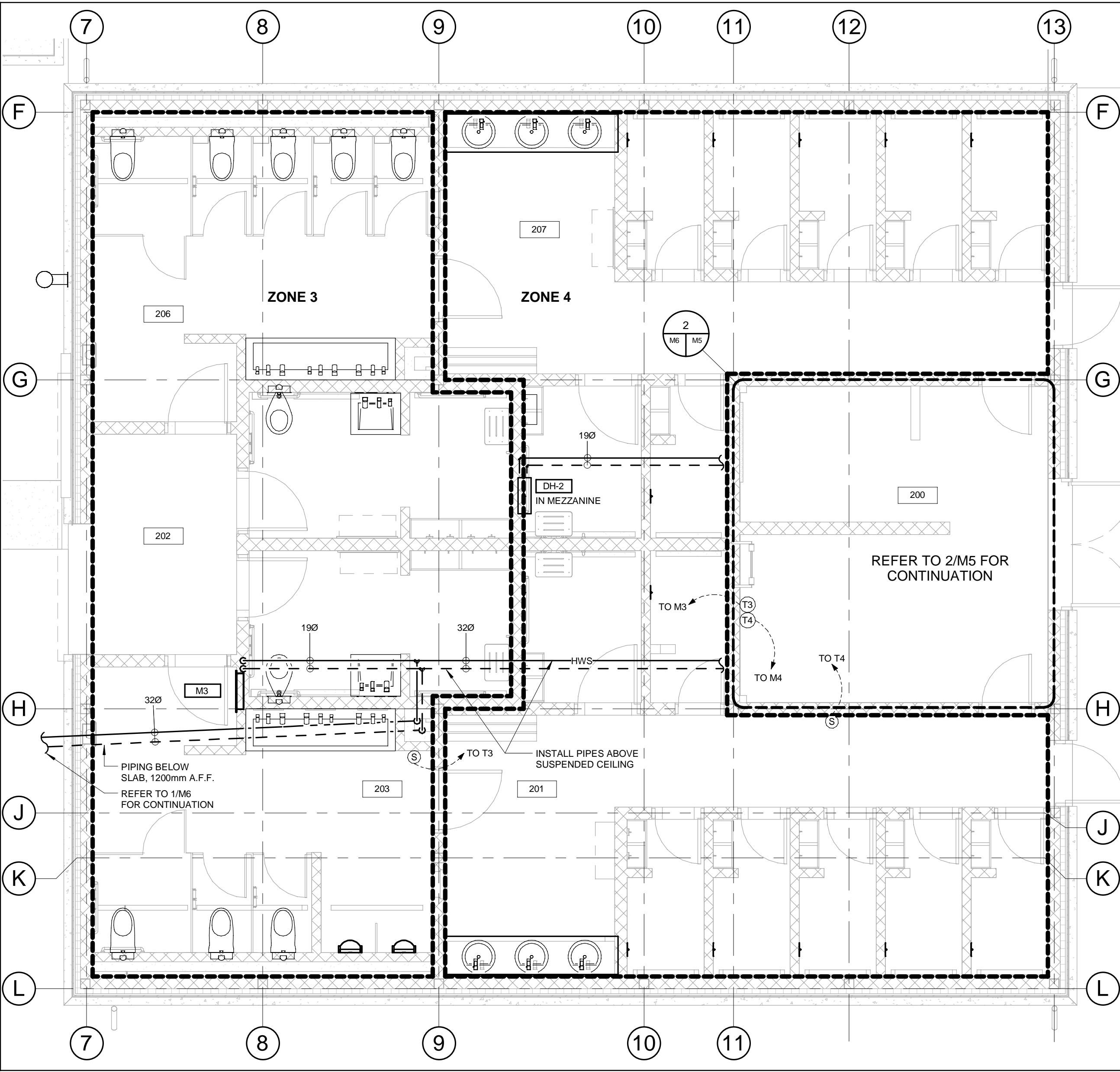


DRAWING NO.		DRAWING NAME	
REFERENCE DRAWINGS			
0	2018- 06- 19	ISSUED FOR TENDER	NH
NO.	DATE	DESCRIPTION	Drawn by/ Dessine par
			Approved / Approuve
REVISIONS			
	A Detail Number		A Numero de Detail
	B Sheet Number		B Sur feuille Numero
LINEAR DIMENSIONS IN MILLIMETERS		Dimensions lineaires en millimetres	
 Parcs Canada			
			
PARKS CANADA			
Type of Record / Type d'enregistrement			
Project title / Titre du projet			
CYPRUS LAKE CAMPGROUND - THE HUB AMENITY BUILDING			
Drawing title / Titre du Dessin			
MECHANICAL - ENLARGED MECHANICAL ROOM FLOOR PLANS			
Plot Scale / Echelle			
1 : 25			
Drawn by/ Dessin par		Date	
NH		2017- 12- 01	
Field Recording by/ Releve- Temoin par		Date	
Approved by/ Approuve par		Date	
BJ		2017- 04- 05	
Checked by/ Verifie par		Date	
BG		2017- 04- 05	
Project No./No. du projet		Asset No.	Sheet No./ Feuille No.
6O554372			
Drawing Re No./No. du Dessin			M5





1 EAST BUILDING - HEAT TRANSFER  
A7/M6 1:50



2 WEST BUILDING - HEAT TRANSFER  
A7/M6 1:50

REFER	DESCRIPTION	REHAU ARTICLE No.
M	25mm (1") STAINLESS STEEL MANIFOLD	381104, 381105 & 381106
S	FLUSH MOUNT INDOOR SENSOR	315838
T	PROGRAMMABLE RADIANT THERMOSTAT WITH FLOOR SENSOR	398023

DRAWING NO. DRAWING NAME

REFERENCE DRAWINGS

0	2018- 06- 19	ISSUED FOR TENDER	NH	BG
NO.	DATE	DESCRIPTION	Drawn by/ Dessine par	Approved / Approuve

REVISIONS

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

LINEAR DIMENSIONS IN MILLIMETERS Dimensions lineaires en millimetres

Parcs Canada Parks Canada



Canada

PARKS CANADA

Type of Record /  
Type d'enregistrement

Project title / Titre du projet  
**CYPRUS LAKE  
CAMPGROUND - THE  
HUB AMENITY BUILDING**

Drawing title / Titre du Dessin  
**MECHANICAL - HEAT  
TRANSFER FLOOR  
PLANS**

Plot Scale / Echelle  
As indicated

Drawn by/ Dessin par  
NH Date  
2017- 12- 01

Field Recording by/  
Releve- Temoin par Date

Approved by/ Approuve par  
BG Date  
2017- 04- 05

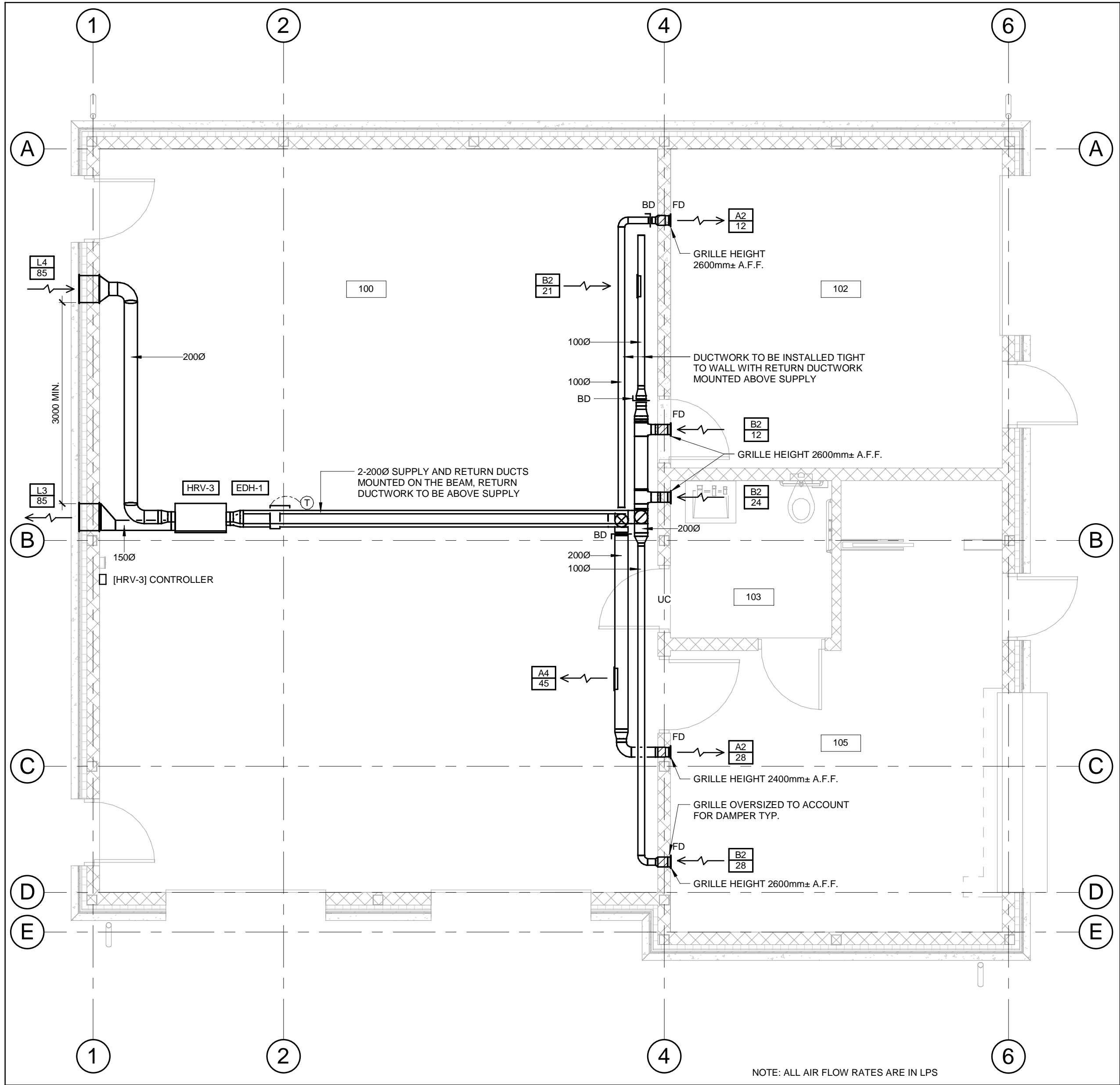
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2017- 04- 05

Project No./No. du projet Asset No. Sheet No./  
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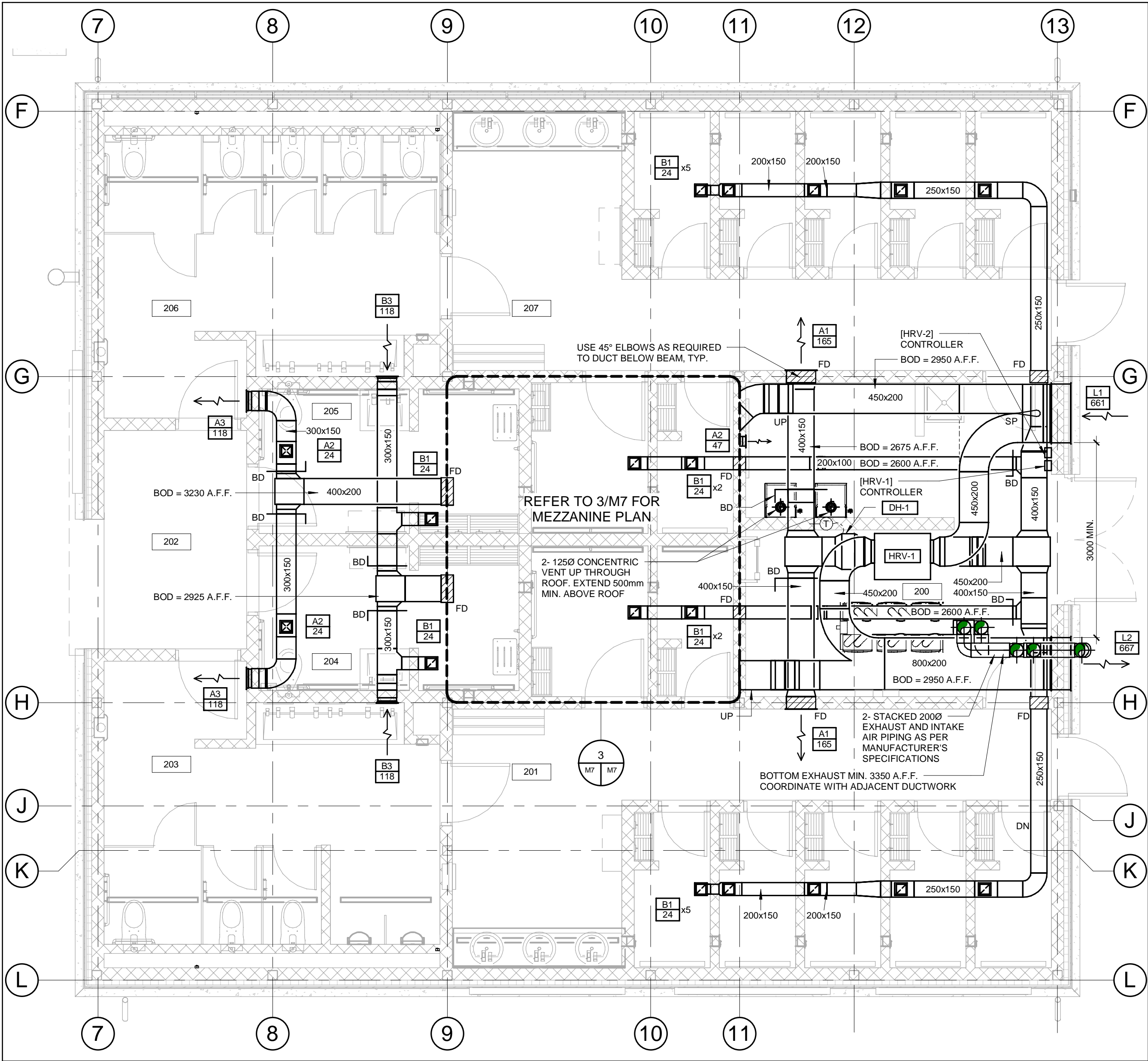
Drawing Re No./No. du Dessin

M6

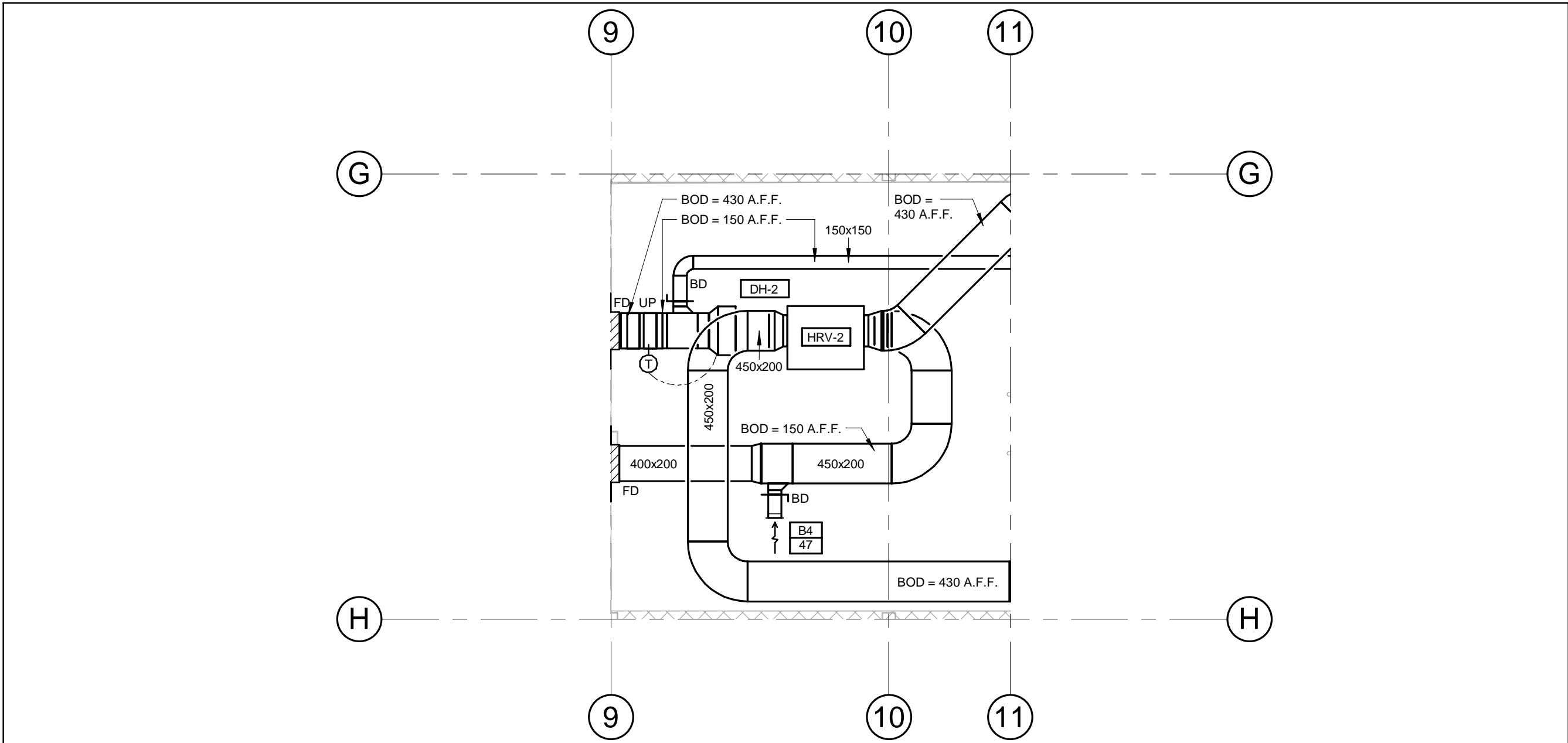




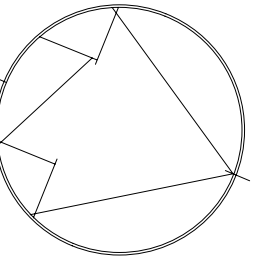
1 EAST BUILDING - HVAC  
A7 M7 1:50



2 WEST BUILDING - HVAC  
A7 M7 1:50



3 WEST BUILDING - HVAC - MEZZANINE  
A7 M7 1:50



DRAWING NO.		DRAWING NAME		
REFERENCE DRAWINGS				
0	2018- 06- 19	ISSUED FOR TENDER	NH	BG
NO.	DATE	DESCRIPTION	Drawn by/ Dessine par	Approved / Approuvé

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

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  
CAMPGROUND - THE  
HUB AMENITY BUILDING**

Drawing title / Titre du Dessin  
**MECHANICAL - HVAC  
FLOOR PLANS**

Plot Scale / Echelle  
1 : 50

Drawn by/ Dessin par  
NH Date  
2017- 12- 01

Field Recording by/  
Releve- Terrain par Date

Approved by/ Approuve par  
BJ Date  
2017- 04- 05

Checked by/ Verife par  
BG Date  
2017- 04- 05

Project No./No. du projet  
60554372

Asset No.  
Drawing Re No./No. du Dessin

Sheet No./  
Feuille No.

M7



GAS-FIRED BOILER SCHEDULE																							
TAG	MANUFACTURER / MODEL	LOCATION	SERVICE	MAXIMUM INPUT		MAXIMUM OUTPUT		FLOW RATE		PRESSURE DROP		FUEL	FLUID TYPE	EWT		LWT		TURNDOWN RATIO	POWER	MCA	OPERATING WEIGHT		REMARKS
				KW	MBH	KW	MBH	LPS	GPM	M	FT. W.G.			°C	°F	°C	°F				KG	LBS	
B-1 & B-2	VISSMANN / VITODENS 200-W B2HB-45	MECH/ELEC ROOM	BUILDING HEATING	47	160	42	143	0.6	10	3.7	12.0	PROPANE GAS	40% PROPYLENE GLYCOL	48.9	120	65.5	150	ONE BOILER S-1 TOTAL PLANT 10:1	120/1/60	15	110	242	CONDENSING BOILER COMPLETE WITH LOW LOSS HEADER AND TEMPERATURE SENSOR, LOW WATER CUTOFF, CONDENSATE NEUTRALIZER, TEMPERATURE & PRESSURE RELIEF VALVE, OUTDOOR TEMPERATURE SENSOR AND VITOTRONIC 300 TYPE MW2C DIGITAL CASCADE CONTROLLER

HYDRONIC HEAT TRANSFER UNITS SCHEDULE																													
TAG	TYPE	LOCATION	MANUFACTURER / MODEL	MAX. AIR FLOW		EAT		LAT		FLUID	EWT		LWT		FLOW RATE		WATER PRESSURE DROP		MAX. HEATING CAPACITY		MOTOR SIZE	MAX. FAN SPEED	POWER SUPPLY	AMP.  A	OPERATING WEIGHT		DIMENSIONS		REMARKS
				LPS	CFM	°C	°F	°C	°F		°C	°F	°C	°F	LPS	GPM	kPa	FT.W.G.	KW	MBH					HP	RPM	KG	LBS	
UH-1	UNIT HEATER	MECH/ELEC ROOM	REZNOR WS 23/33	236	500	18.0	64.4	40.0	104.0	40% PROPYLENE GLYCOL	60.0	140.0	48.9	120.0	0.16	2.5	0.12	0.04	7.0	24	0.055	1600	115 / 1 / 60	0.9	20.0	44.0	W 418 D 465 H 418	W 16.5 D 18.3 H 16.5	TWO ROWS WITH COPPER COILS AND ALUMINUM FINS, COMPLETE WITH WALL BRACKET, VERTICAL LOUVRES AND REMOTE THERMOSTAT WITH INSULATED SUB-BASE
DH-1 & DH-2	DUCT HEATER	MECH/ELEC ROOM	GREENHECK W821218N	330	700	-1.1	30.0	21.7	71.0		60.0	140.0	48.9	120.0	0.21	3.3	20.30	6.80	9.1	31	-	-	-	-	8.6	19.0	W 500 H 350 D 100	W 20 H 14 D 4	TWO ROWS WITH COPPER COILS AND ALUMINUM FINS, PROVIDE REMOTE DUCT TEMPERATURE SENSOR

ELECTRIC WATER HEATER SCHEDULE																
TAG	LOCATION	MANUFACTURER	MODEL	TYPE	CAPACITY		FLOW RATE		TEMPERATURE RISE		NUMBER OF ELEMENTS	ELECTRICAL		OPER. WEIGHT		REMARKS
					LIT.	USG	LPM	GPM	°C DT	°F DT		V / PH / HZ	AMPS / KW	Kg	LBS	
DWH-7	STAFF WASHROOM	RHEEM	RTEX-06	TANKLESS ELECTRIC WATER HEATER	-	-	1.9	0.5	44	80	1	240 / 1 / 60	29 A / 5.5 KW	2	5	COMPLETE WITH INLINE FLOW REGULATOR, DIGITAL TEMPERATURE DISPLAY AND HIGH LIMIT CONTROL.

GAS FIRED WATER HEATER SCHEDULE																			
TAG	LOCATION	MANUFACTURER	MODEL	TYPE	TEMP. RISE		FLOW		FUEL	GAS INLET PRESSURE		INPUT		EFFICIENCY	OPER. WEIGHT		ELECTRICAL		REMARKS
					°C	°F	LIT/MIN	USG/MIN		kPa	IN WC	KW	MBH	PERCENT	Kg	LBS	V / PH / Hz	A	
DWH-1, 2, 3, 4, 5 & 6	MECH./ELEC. ROOM	A.O. SMITH	ACI-CRS-66B2B-P	COMMERCIAL CONDENSING RACK SYSTEM	27	80	107	28	PROPANE GAS	2.0	8.0	350	1194	95.0	306	674	120 / 1 / 60	13.5	FREE STANDING RACK SYSTEM INCLUDING SIX 540H WATER HEATERS, COMPLETE WITH MULTI-UNIT CONTROLLER, MOUNTING KIT, CONDENSATE NEUTRALIZER AND SCH. 40 PVC INTAKE AIR AND VENT PIPES
										TO	TO								
										3.5	14.0								

LOUVRE SCHEDULE														
TAG	MANUFACTURER / MODEL	APPLICATION	FREE AREA SQ.FT	SIZE (W x H)		VELOCITY		AIR FLOW		ACCESSORIES / COLOUR				
				MM	INS	MPS	FPM	LPS	CFM					
L1	GREENHECK / EHH-601	OUTDOOR AIR INTAKE	3.10	900 W 650 H	36 W 26 H	2.3	452	661	1400	150MM (6") DEEP STORMPROOF LOUVER, COMPLETE WITH INSECT SCREEN AND EXTENDED SLEEVE. LOUVRE COLOUR SHALL BE BLACK ANODIZED ALUMINUM.				
L2	GREENHECK / EHH-601	GENERAL EXHAUST	2.50	800 W 650 H	32 W 26 H									
L3	GREENHECK / EHH-601	GENERAL EXHAUST	0.55	400 W 400 H	16 W 16 H	1.7	327	85	180	150MM (6") DEEP STORMPROOF LOUVER, COMPLETE WITH INSECT SCREEN, AND EXTENDED SLEEVE. LOUVRE COLOUR SHALL BE BLACK ANODIZED ALUMINUM COMPLETE WITH GREENHECK WD SERIES BACKDRAFT DAMPER.				
L4	GREENHECK / EHH-601	OUTDOOR AIR INTAKE	0.55	400 W 400 H	16 W 16 H									

ELECTRIC DUCT HEATER SCHEDULE																
TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	CAPACITY		AIRFLOW		EAT		LAT		POWER	DUCT DIA.		REMARKS
					KW	MBH	L/s	CFM	°C	°F	°C	°F		V/PHz	MM	
EDH-1	STORAGE ROOM	HRV-3 INTAKE AIR HEATING	NEPTRONIC	DF-CF11H	2.0	6.8	85	180	-1.1	30.0	18.3	65.0	240/1/60	200	8.0	ON/OFF DUCT HEATER, FLANGED ROUND COLLAR, OPEN COIL NG: 80 (GRADE A) ELEMENTS, C/W STC8-13 DUCT TEMPERATURE SENSOR, IT03 SETPOINT CONTROLLER, TRANSFORMER, AUTOMATIC THERMAL CUTOUT, BUILT-IN AIRFLOW SWITCH, PROTECTIVE SCREEN AND DISCONNECT SWITCH

GRILLE SCHEDULE									
TAG	MANUFACTURER	MODEL	APPLICATION	SIZE		AIR FLOW		MAXIMUM NC RANGE	REMARKS
				MM	INS	LPS	CFM		
A1	KRUEGER	5880-H-16x06-F22-NONE-01-15-00-10	SUPPLY AIR GRILLE	400 x 150	16 x 6	165	350	25	ALUMINUM SUPPLY GRILLE WITH ALUMINUM OPPOSED BLADE DAMPER, DOUBLE DEFLECTION, 3/4" (19MM) BAR SPACING, STANDARD SCREW HOLES AND ALUMICAN FINISH.
A2	KRUEGER	5880-H-06x06-F22-NONE-01-15-00-10	SUPPLY AIR GRILLE	150 x 150	6 x 6	12 TO 47	25 TO 100	25	ALUMINUM SUPPLY GRILLE WITH ALUMINUM OPPOSED BLADE DAMPER, DOUBLE DEFLECTION, 3/4" (19MM) BAR SPACING, STANDARD SCREW HOLES AND ALUMICAN FINISH.
A3	KRUEGER	5880-H-12x08-F22-NONE-01-15-00-10	SUPPLY AIR GRILLE	300 x 200	12 x 8	118	250	25	ALUMINUM SUPPLY GRILLE WITH ALUMINUM OPPOSED BLADE DAMPER, DOUBLE DEFLECTION, 3/4" (19MM) BAR SPACING, STANDARD SCREW HOLES AND ALUMICAN FINISH.
A4	KRUEGER	DMGDR-H-12x06-08-01-81	DUCT MOUNTED SUPPLY AIR GRILLE	300 x 150	12 x 6	45	95	25	DUCT MOUNTED ALUMINUM SUPPLY GRILLE WITH RADIUS END CAPS, DOUBLE DEFLECTION GRILLES, ALUMINUM DAMPER/EXTRACTOR AND ANODIZE FINISH. INSTALL AT 45 DEGREE FROM VERTICAL LINE.
B1	KRUEGER	EGC5-06x06-F22-NONE-01-15-00-10	EGG CRATE EXHAUST GRILLE	150 x 150	6 x 6	24	50	25	ALUMINUM RETURN GRILLE, 1/2"x1/2"x1/2" (12MMx12MMx12MM) CORE WITH ALUMINUM OPPOSED BLADE DAMPER AND ALUMICAN FINISH.
B2	KRUEGER	S585-H-06x06-F22-NONE-01-00-00-10	SIDE WALL RETURN AIR GRILLE	150 x 150	6 x 6	12 TO 28	25 TO 60	25	ALUMINUM FIXED BLADE GRILLE, 1/2" (12MM) BLADE SPACING AND 35° DEFLECTION, STANDARD SCREW HOLES AND ALUMICAN FINISH.
B3	KRUEGER	S585-H-12x08-F22-NONE-01-00-00-10	SIDE WALL RETURN AIR GRILLE	300 x 200	12 x 8	118	250	25	ALUMINUM FIXED BLADE GRILLE, 1/2" (12MM) BLADE SPACING AND 35° DEFLECTION, STANDARD SCREW HOLES AND ALUMICAN FINISH.
B4	KRUEGER	S585-H-10x06-F22-NONE-01-00-00-10	SIDE WALL RETURN AIR GRILLE	250 x 150	10 x 6	47	100	25	ALUMINUM FIXED BLADE GRILLE, 1/2" (12MM) BLADE SPACING AND 35° DEFLECTION, STANDARD SCREW HOLES AND ALUMICAN FINISH.
B5	KRUEGER	DMGSR-H-12x04-08-00-81	DUCT MOUNTED RETURN AIR GRILLE	300 x 100	14 x 4	33	70	25	DUCT MOUNTED ALUMINUM RETURN GRILLE WITH RADIUS END CAPS, SINGLE DEFLECTION GRILLES AND ANODIZE FINISH. INSTALL AT 45 DEGREE FROM VERTICAL LINE.

HEAT RECOVERY VENTILATOR SCHEDULE																											
TAG	LOCATION	FUNCTION	MANUFACTURER	MODEL	MAX. SUPPLY AIRFLOW		SUPPLY	E.S.P.	MAX. EXHAUST AIRFLOW		EXHAUST E.S.P.		WINTER F.A.TEMP. AT INLET		WINTER F.A.TEMP. AT OUTLET		WINTER EXA.TEMP. AT INLET		EFFICIENCY	OPERATING WEIGHT		POWER SUPPLY		ELECTRICAL		CONTROLLED BY	REMARKS
					LPS	CFM			Pa	IN WC	LPS	CFM	Pa	IN WC	°C	°F	°C	°F		°C	°F	KG	LBS.	V / PH / Hz	POWER (W)		
HRV-1	MECH/ELEC ROOM	VENTILATION OF SHOWERS	VANEE	VLBC-E-P-S	330	700	112	0.45	330	700	112	0.45	-22	-8	-1	30	21	70	50%	67.2	148	115 / 1 / 60	730	8.7	OCCUPANCY SENSOR DRY CONTACTS (BY DIV 26) WITH 30 MIN. TIME DELAY & VANEE 40210 WALL CONTROLLER	HEAT RECOVERY UNIT WITH POLYPROPYLENE CORE, COMPLETE WITH WASHABLE FILTERS (MIN. MERV-3), THREE SPEED FANS, REMOTE WALL CONTROLLER WITH TRANSFORMER, VIBRATION ISOLATION, RECIRCULATION DEFROST SYSTEM AND DISCONNECT.	
HRV-2	MECH. MEZZANINE	VENTILATION OF WASHROOMS AND MECH/ELEC ROOM	VANEE	VLBC-E-P-S	330	700	112	0.45	330	700	112	0.45	-22	-8	-1	30	21	70	50%	67.2	148	115 / 1 / 60	730	8.7	OCCUPANCY SENSOR DRY CONTACTS (BY DIV 26) WITH 30 MIN. TIME DELAY & VANEE 40210 WALL CONTROLLER	HEAT RECOVERY UNIT WITH POLYPROPYLENE CORE, COMPLETE WITH WASHABLE FILTERS (MIN. MERV-3), THREE SPEED FANS, REMOTE WALL CONTROLLER WITH TRANSFORMER, VIBRATION ISOLATION, RECIRCULATION DEFROST SYSTEM AND DISCONNECT.	
HRV-3	STORAGE AREA	VENTILATION OF EAST BUILDING	VANEE	200H	85	180	100	0.4	85	180	100	0.4	-22	-8	-1	30	21	70	50%	29.5	65	115 / 1 / 60	195	2.1	VANEE BRONZE WALL CONTROLLER	HEAT RECOVERY UNIT WITH POLYPROPYLENE CORE, COMPLETE WITH WASHABLE FILTERS (MIN. MERV-3), TWO SPEED FANS, REMOTE WALL CONTROLLER WITH TRANSFORMER, VIBRATION ISOLATION, DEFROST SYSTEM AND DISCONNECT.	

PLUMBING FIXTURE CONNECTION SCHEDULE													
TAG	FIXTURE NAME	SANITARY		VENT		DCWS		DHWS		TEMPERED		REMARKS	
		MM	INS	MM	INS	MM	INS	MM	INS	MM	INS		
W-1 & W-3	BARRIER-FREE FLUSH VALVE WATERCLOSET	75	3	38	1.5	25	1	-	-	-	-	CONCEALED FLUSH VALVE	
W-2	FLUSH VALVE WATERCLOSET	75	3	38	1.5	25	1	-	-	-	-	CONCEALED FLUSH VALVE	
L-1	TROUGH SINK	3 AT 50	3 AT 2	3 AT 38	3 AT 1.5	3 AT 13	3 AT 0.5	3 AT 13	3 AT 0.5	-	-	3 THERMOSTATIC MIXING VALVE	
L-2	COUNTER MOUNTED LAVATORY	32	1.25	32	1.25	13	0.5	13	0.5	-	-	THERMOSTATIC MIXING VALVE	
L-3	WALL MOUNTED BARRIER-FREE LAVATORY	32	1.25	32	1.25	13	0.5	13	0.5	-	-	THERMOSTATIC MIXING VALVE	
SH-1	SHOWER	-	-	-	-	-	-	-	-	13	0.5	SOLENOID VALVE WITH TIMER CONTROLLER	
SH-2	BARRIER-FREE SHOWER	-	-	-	-	-	-	-	-	13	0.5	SOLENOID VALVE WITH TIMER CONTROLLER AND HANDHELD SHOWER	
S-1	FLOOR MOUNTED MOP SINK	75	3	38	1.5	13	0.5	13	0.5	-	-		
BF-1	EXTERIOR WALL MOUNTED BOTTLE FILLING STATION	32	1.25	32	1.25	13	0.5	-	-	-	-		
U-1	WATERLESS URINAL	50	2	38	1.5	-	-	-	-	-	-		
FD	FLOOR DRAIN	75	3	38	1.5	9	0.38	-	-	-	-	FROM TRAP SEAL PRIMER	
FFD	FUNNEL FLOOR DRAIN	75	3	38	1.5	9	0.38	-	-	-	-	FROM TRAP SEAL PRIMER	
WH-1	EXTERIOR WALL HYDRANT	-	-	-	-	19	0.75	-	-	-	-	COMPLETE WITH VACUUM BREAKER	
WH-2	INTERIOR WALL HYDRANT	-	-	-	-	19	0.75	-	-	-	-	COMPLETE WITH VACUUM BREAKER	
HB-1	INDOOR HOSE BIBB	-	-	-	-	19	0.75	-	-	-	-	COMPLETE WITH VACUUM BREAKER	
TD-1, 2, 3, 4 & 5	TRENCH DRAIN	75	3	38	1.5	9	0.38	-	-	-	-	FROM TRAP SEAL PRIMER	
TSP-1	ELECTRONIC TRAP SEAL PRIMER	-	-	-	-	19 9 *	0.75 0.38*	-	-	-	-	* PER FD, FFD AND TD	
TSP-2	ELECTRONIC TRAP SEAL PRIMER	-	-	-	-	13 9 *	0.5 0.38*	-	-	-	-	* PER FD, FFD AND TD	



PUMP SCHEDULE																	
TAG	LOCATION	FUNCTION	FLUID	TYPE	MANUFACTURER	MODEL	FLOW		HEAD		MOTOR DATA			POWER V / PH / Hz	OPER. WT.		REMARKS
							LPM	GPM	M	FT	RPM	HP	W		Kg	LBS	
P-1 & P-7	MECH/ELEC ROOM	DHWR	POTABLE WATER	INLINE WET-ROTOR CIRCULATOR	BELL & GOSSETT	ECOCIRC XL N 20-35	30.3	8.0	3.7	12.0	3500	1/12	6-85	115 / 1 / 60	10.0	22.0	HIGH EFFICIENCY CIRCULATOR WITH STAINLESS STEEL BODY AND SHAFT, ECM MOTOR WITH SENSORLESS VARIABLE SPEED OPERATION, COMPLETE WITH UNIT MOUNTED CONTROLLER.
P-2	MECH/ELEC ROOM	CISTERN CHLORINATION CIRCULATOR	POTABLE WATER	INLINE WET-ROTOR CIRCULATOR	BELL & GOSSETT	SSF-12U/LW	11.4	3.0	2.7	9.0	2800	1/12	55	115 / 1 / 60	4.2	9.3	SYSTEM-LUBRICATED CIRCULATOR WITH STAINLESS STEEL BODY, CERAMIC SHAFT AND UNION CONNECTIONS. PUMP OPERATES CONTINUOUSLY.
P-3 & P-4	MECH/ELEC ROOM	BOILER CIRCULATOR	40% PROPYLENE GLYCOL	INLINE CIRCULATOR	GRUNDFOS	UPS 26-99FC	30.3	8.0	7.3	24.0	3500	1/6	150-197	115 / 1 / 60	4.7	10.3	3-SPEED CIRCULATOR WITH CHECK VALVE, CAST IRON BODY AND CERAMIC SHAFT
P-5	MECH/ELEC ROOM	HEATING COILS	40% PROPYLENE GLYCOL	INLINE WET-ROTOR CIRCULATOR	BELL & GOSSETT	ECOCIRC XL 36-45	34.1	9.0	5.8	19.0	3500	1/6	20-200	115 / 1 / 60	9.1	20.0	HIGH EFFICIENCY CIRCULATOR WITH CAST IRON BODY AND STAINLESS STEEL SHAFT, ECM MOTOR WITH SENSORLESS VARIABLE SPEED OPERATION, COMPLETE WITH UNIT MOUNTED CONTROLLER
P-6	MECH/ELEC ROOM	IN-FLOOR HEATING	40% PROPYLENE GLYCOL	INLINE WET-ROTOR CIRCULATOR	BELL & GOSSETT	ECOCIRC XL 36-45	53.0	14.0	7.9	26.0	3500	1/6	20-200	115 / 1 / 60	9.1	20.0	HIGH EFFICIENCY CIRCULATOR WITH CAST IRON BODY AND STAINLESS STEEL SHAFT, ECM MOTOR WITH SENSORLESS VARIABLE SPEED OPERATION, COMPLETE WITH UNIT MOUNTED CONTROLLER

EXPANSION/CUSHION TANK SCHEDULE													
TAG	MANUFACTURER / MODEL	SERVICE	MAXIMUM WORKING PRESSURE		FACTORY PRECHARGE PRESSURE		TANK VOLUME		ACCEPTANCE VOLUME		SHIPPING WEIGHT		REMARKS
			BAR	PSIG	BAR	PSIG	L	GAL	L	GAL	KGS	LBS	
ET-1	AMTROL WELL-X-TROL WX-452C	INCOMING POTABLE WATER	8.6	125	1.7	25	802	211	802	211	273	602	ASME FULL ACCEPTANCE BLADDER TANK, COMPLETE WITH AIR CHARGING VALVE, STAND. SIGHT GLASS, STAINLESS STEEL SYSTEM CONNECTION AND ANTIMICROBIAL LINER.
ET-2	AMTROL THERM-X-TROL ST-5C	POTABLE HOT WATER	10.3	150	3.75	55	7.6	2	3.4	0.9	4.5	10.0	ASME DIAPHRAGM TANK, COMPLETE WITH AIR CHARGING VALVE, STAINLESS STEEL SYSTEM CONNECTION AND ANTIMICROBIAL LINER.
ET-3	AMTROL EXTROL AX-20	40% PROPYLENE GLYCOL HEATING WATER	8.6	125	0.85	12	41.3	10.9	9.1	2.4	20.9	46.0	HORIZONTAL ASME DIAPHRAGM TANK, COMPLETE WITH AIR CHARGING VALVE AND SUPPORTS. ADJUST PRE-CHARGE TO SUIT SYSTEM PRESSURE.

GLYCOL MAKEUP UNIT SCHEDULE															
TAG	LOCATION	MANUFACTURER	MODEL	SERVICE	PUMP FLOW RATE		PRESSURE RANGE		TANK SIZE		MOTOR POWER		SHIPPING WEIGHT		REMARKS
					LPS	GPM	kPa	PSI	LIT.	GAL.	HP	V/PH/Hz	KG	LBS	
GLYCOL MAKEUP UNIT	MECH & ELEC ROOM	BELL & GOSSETT	GMU-30	HEATING SYSTEM	0.63	10	21 - 207	3 - 30	208	55	1/2	115/1/60	73	160	

RADIANT CIRCUIT 'DESIGN BASIS' SCHEDULE													
MANIFOLD	ROOM NO.	AREA SERVED	CIRCUIT QUANTITY	ROOM HEAT LOAD		PIPE SIZE		PIPE SPACING		40% PROPYLENE GLYCOL FLOW		HEAD LOSS	
				KW	MBH	MM	INS.	MM	INS.	LPS	GPM	KPA	FT
M1	100	STORAGE AREA	5	12.15	41.5	13	0.50	225	9	0.34	5.40	37.91	12.70
	102	INTERP. STORAGE AREA	2	2.37	8.1	13	0.50	225	9				
M2	103 & 105	TUCK SHOP & STAFF WASHROOM	2	4.30	14.7	13	0.50	225	9	0.10	1.60	24.78	8.30
M3	203	MEN'S WASHROOM	1	1.99	6.8	13	0.50	150	6	0.16	2.50	27.46	9.20
	204	UNIVERSAL WASHROOM	1	1.32	4.5	13	0.50	150	6				
	205	UNIVERSAL WASHROOM	1	1.32	4.5	13	0.50	150	6				
	206	WOMEN'S WASHROOM	1	1.99	6.8	13	0.50	150	6				
M4	201	MEN'S SHOWER AREA	3	6.44	22.0	13	0.50	150	6	0.26	4.10	33.43	11.20
	207	WOMEN'S SHOWER AREA	3	4.60	15.7	13	0.50	150	6				

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REVISIONS

<div><div>A</div><div>B</div></div>	A Detail Number	A Numero de Detail
	B Sheet Number	B Sur feuille Numero

LINEAR DIMENSIONS IN MILLIMETERS

Dimensions lineaires en millimetres



Canada

PARKS CANADA

Type of Record /  
Type d'enregistrement

Project title / Titre du projet

CYPRUS LAKE  
CAMPGROUND - THE  
HUB AMENITY BUILDING

Drawing title / Titre du Dessin

MECHANICAL -  
SCHEDULES

Plot Scale / Echelle

Drawn by/ Dessin par

NH

Date

2017- 12- 01

Field Recording by/  
Releve- Temoin par

Date

Approved by/ Approuve par

BJ

Date

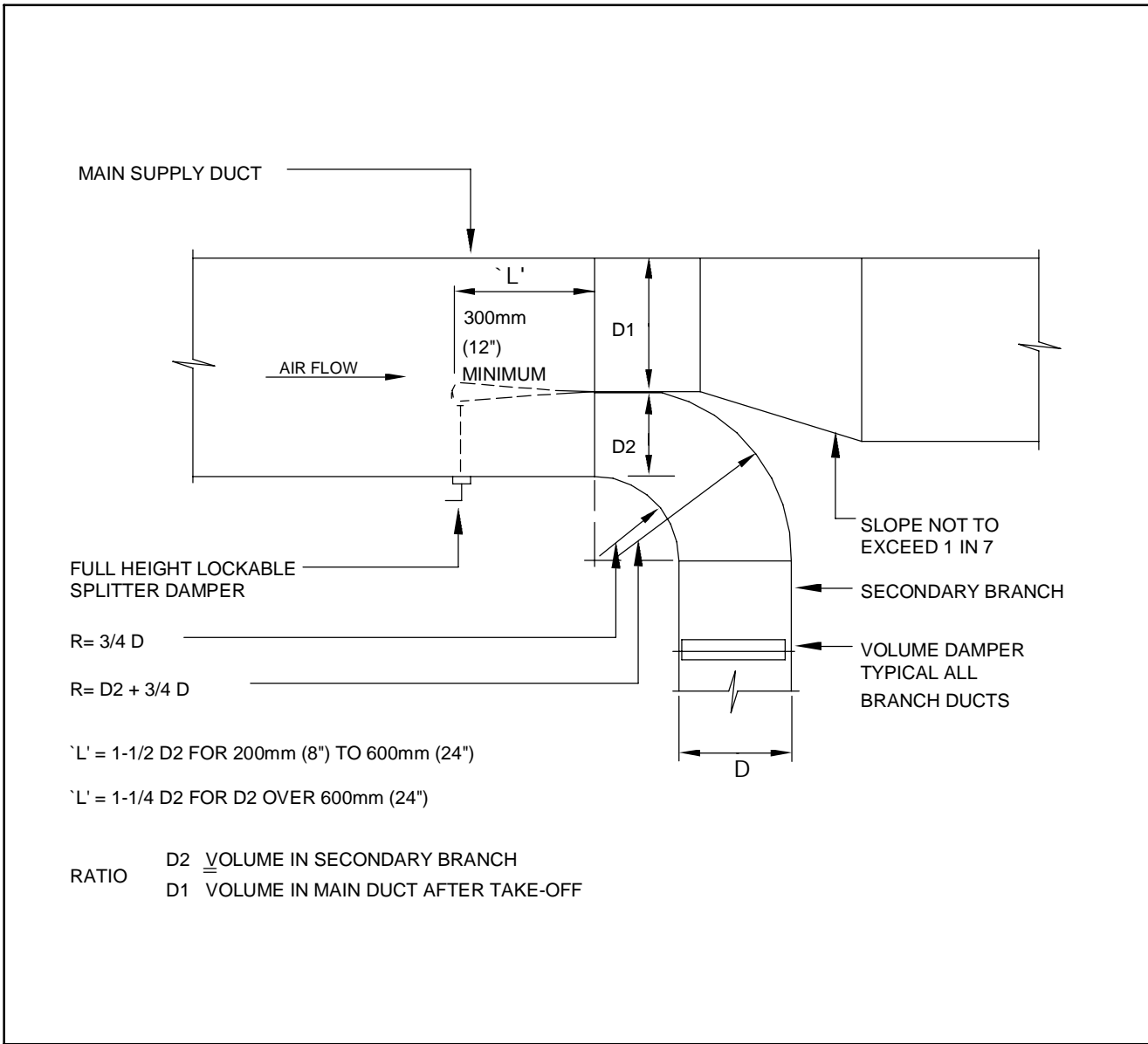
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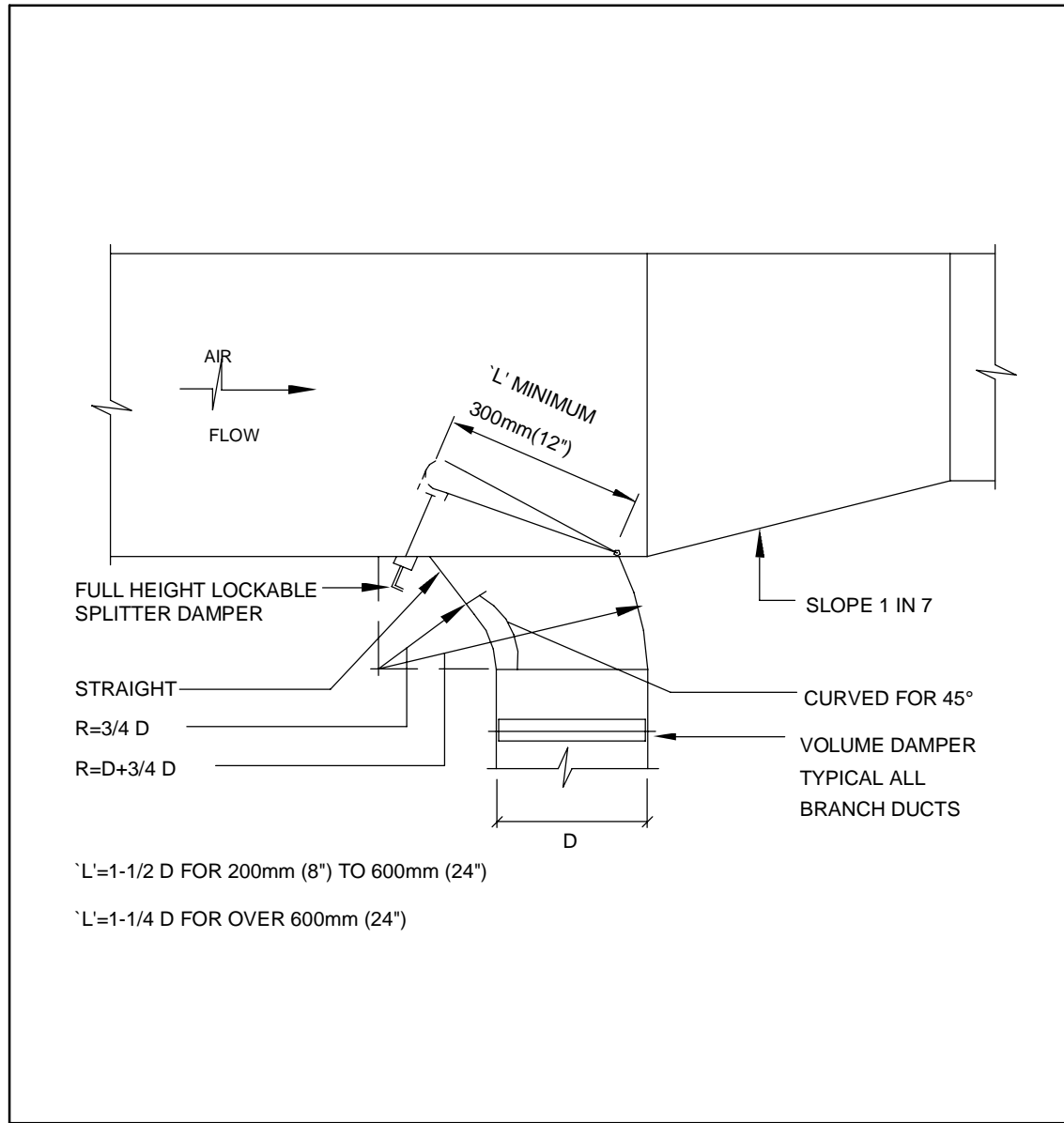
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60554372		
Drawing Re No./No. du Dessin		M9

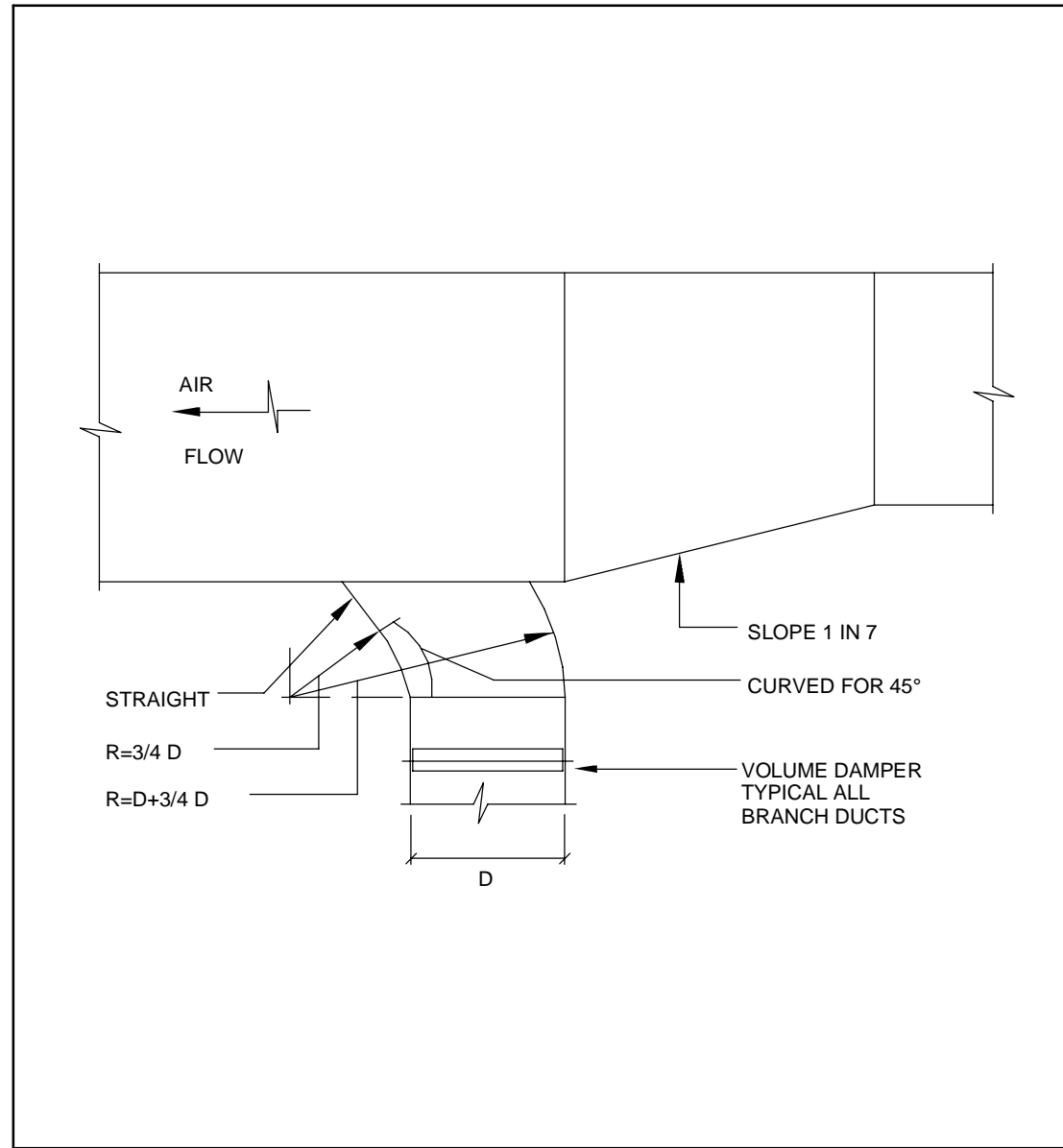




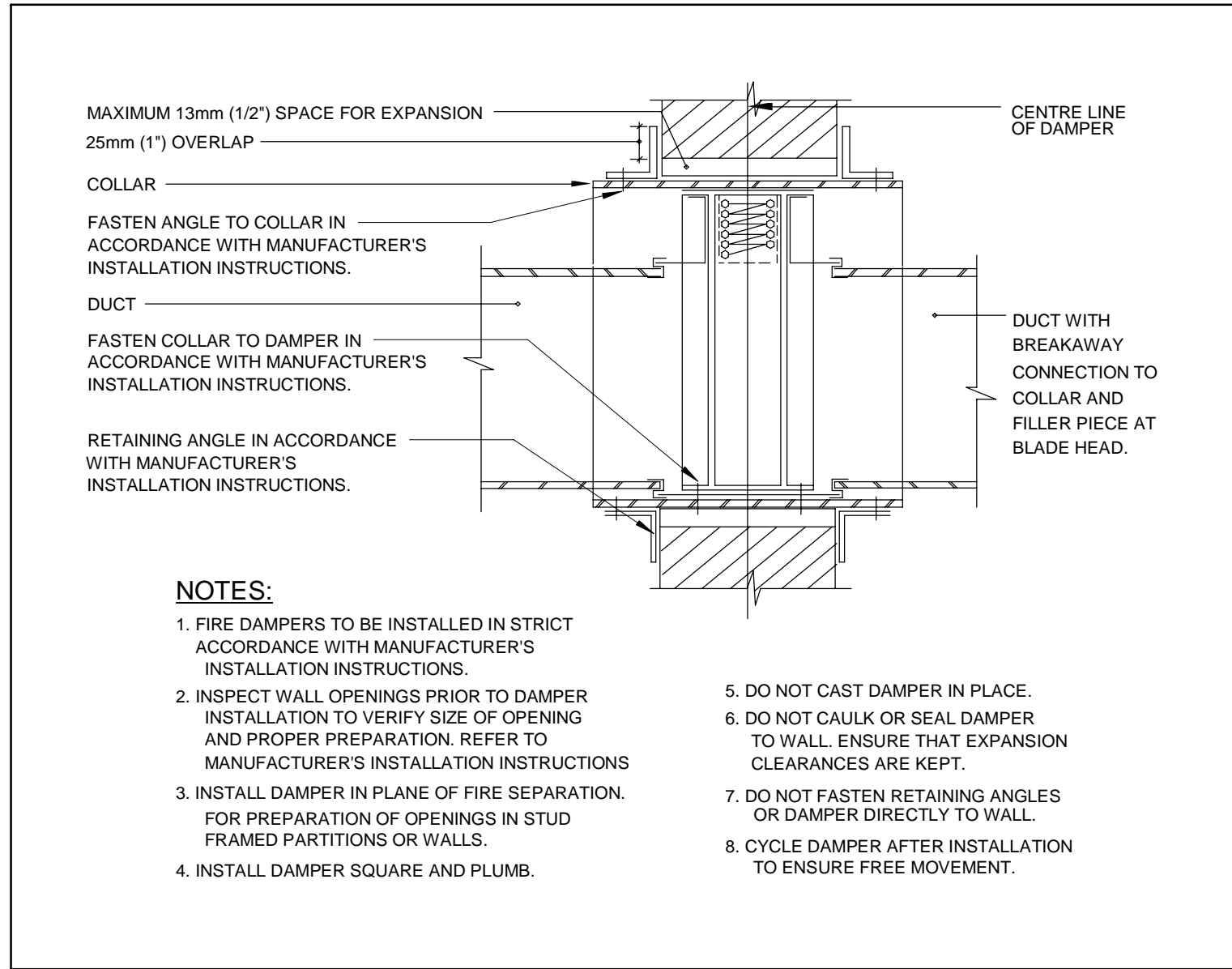
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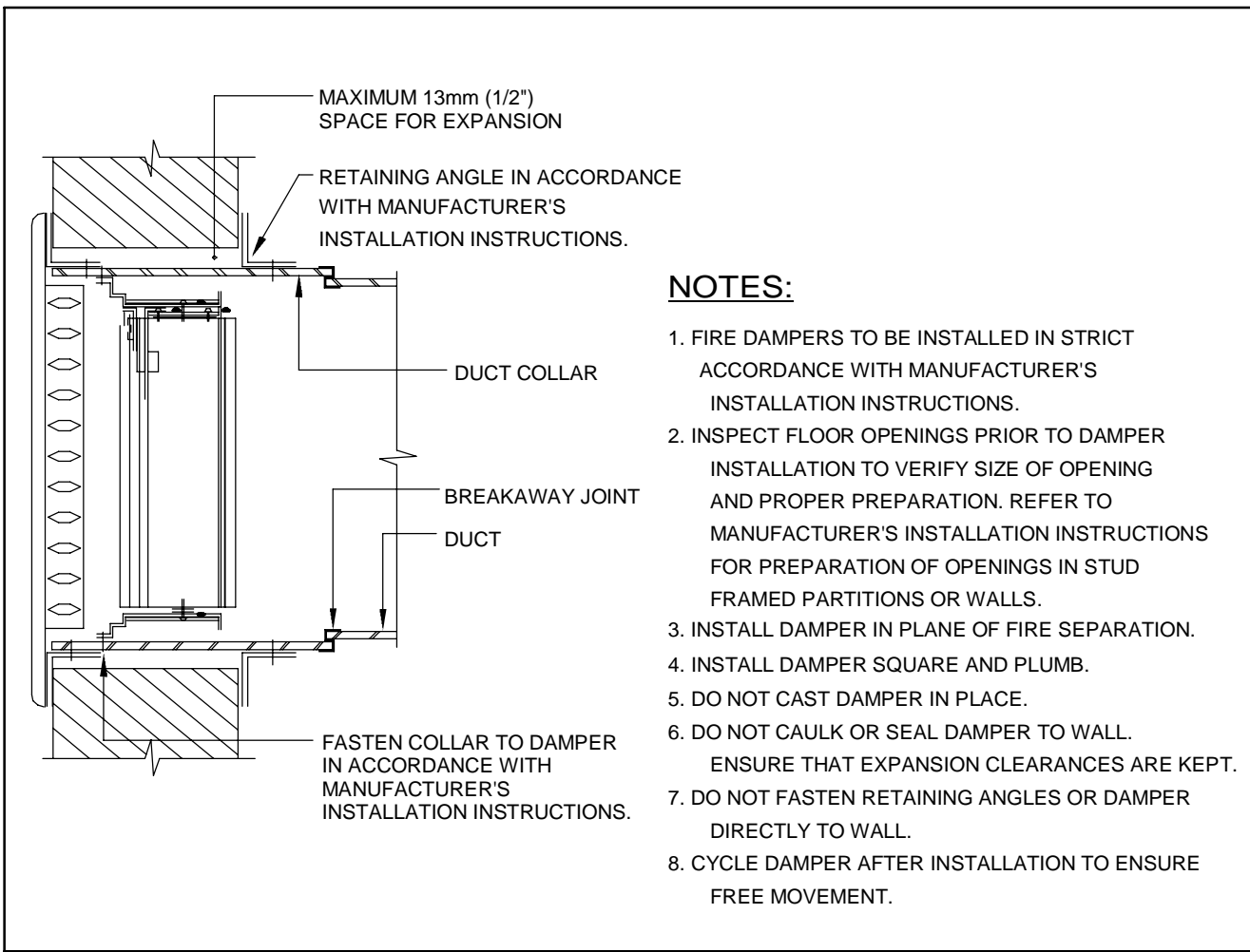
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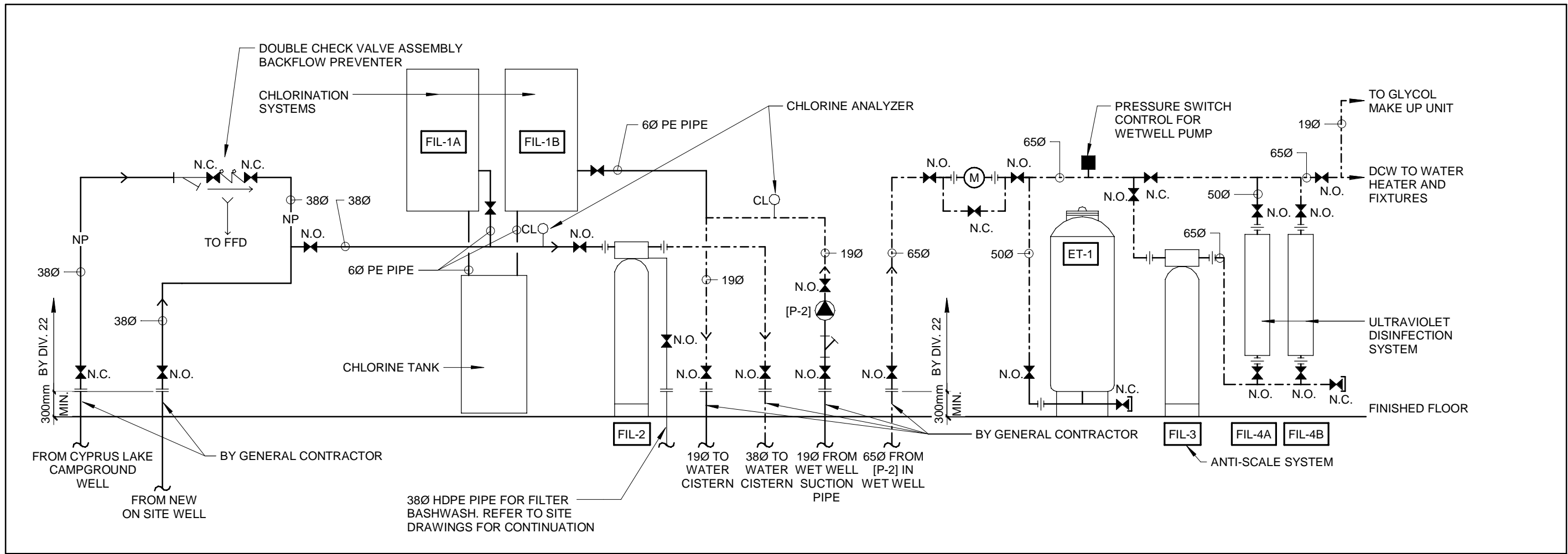
3 DETAIL - RETURN TAP-IN CONNECTION  
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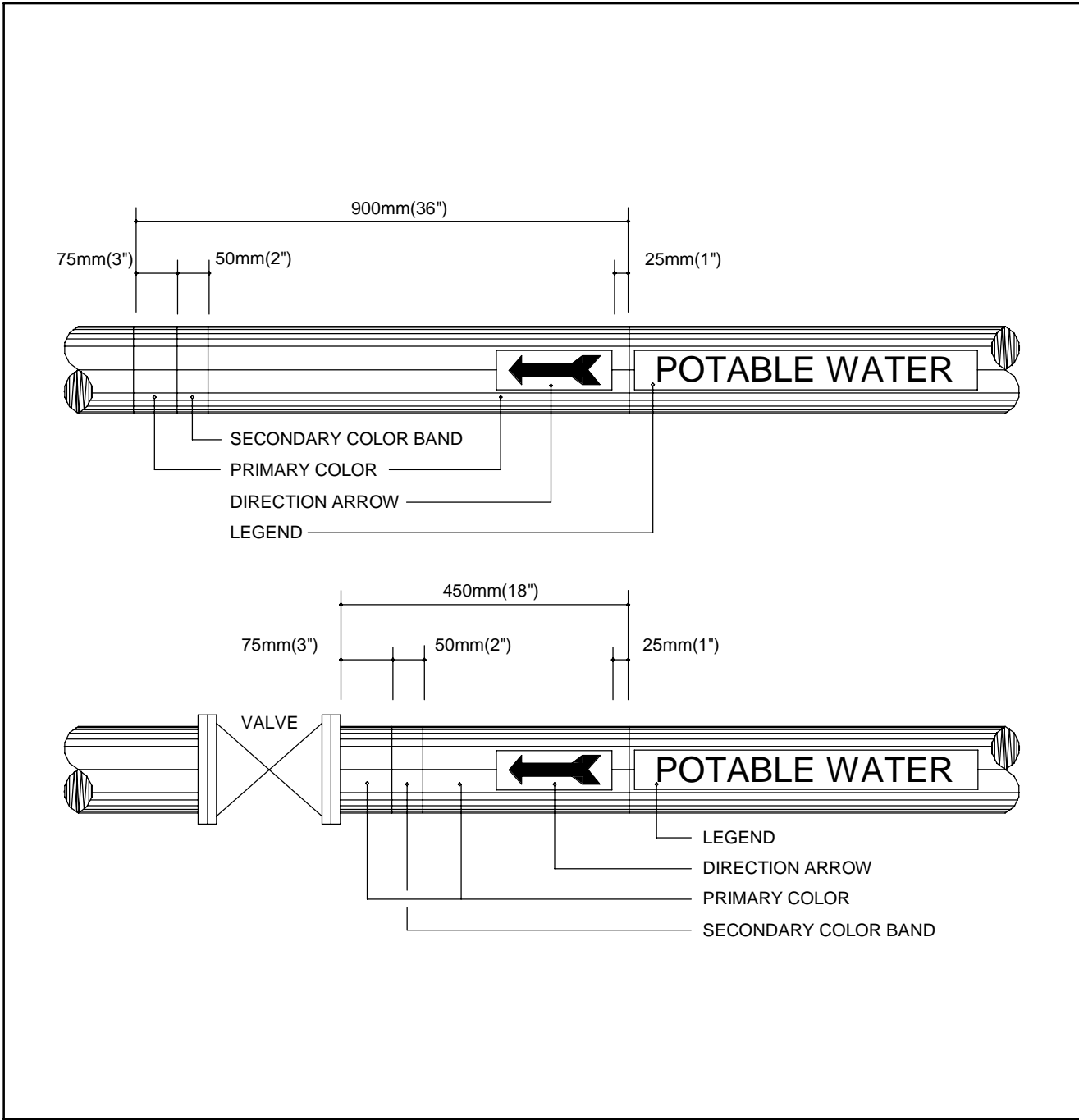
4 DETAIL - TYPE B FIRE DAMPER INSTALLATION-VERTICAL  
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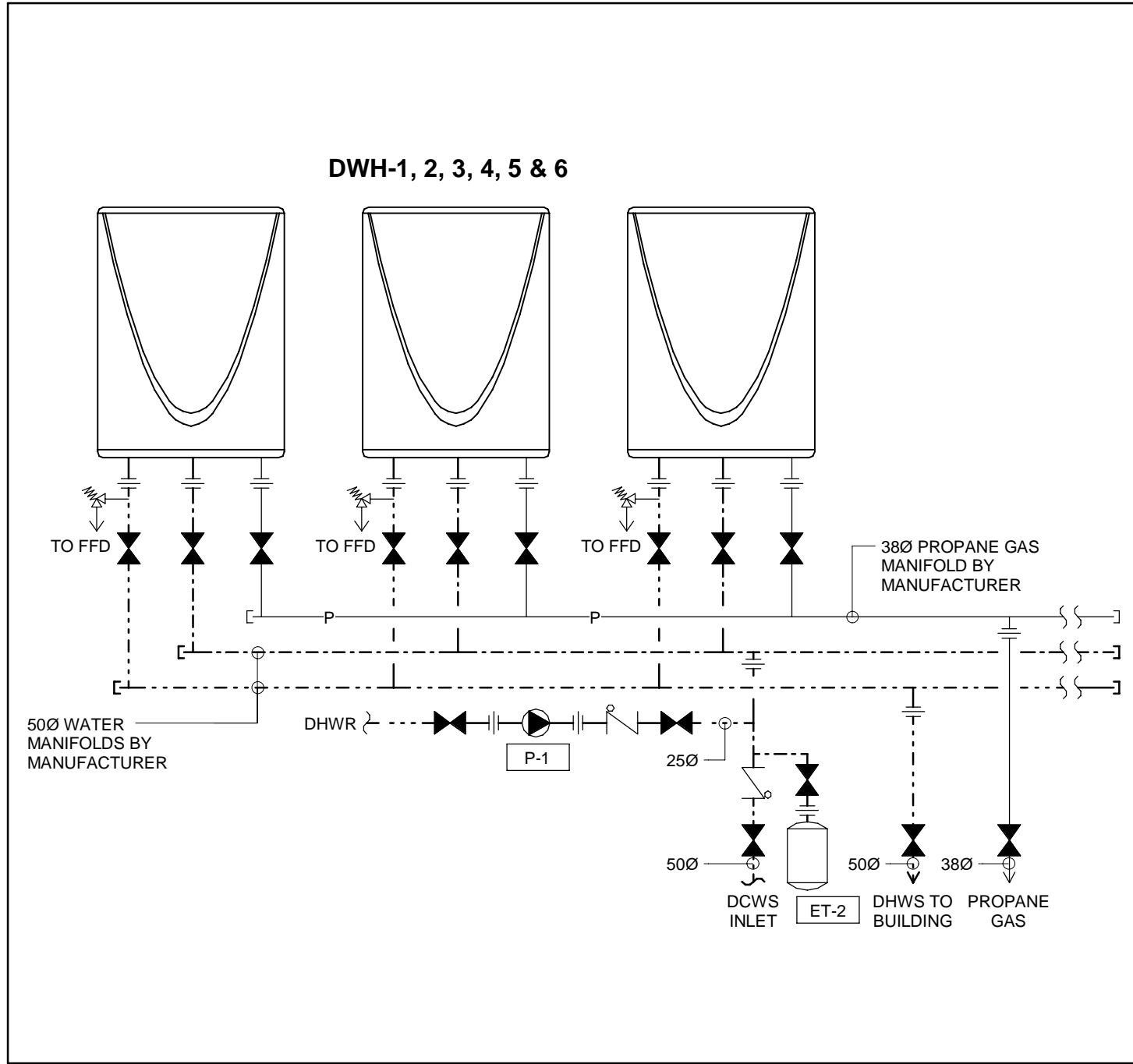
5 DETAIL - SIDE WALL FIRE DAMPER INSTALLATION  
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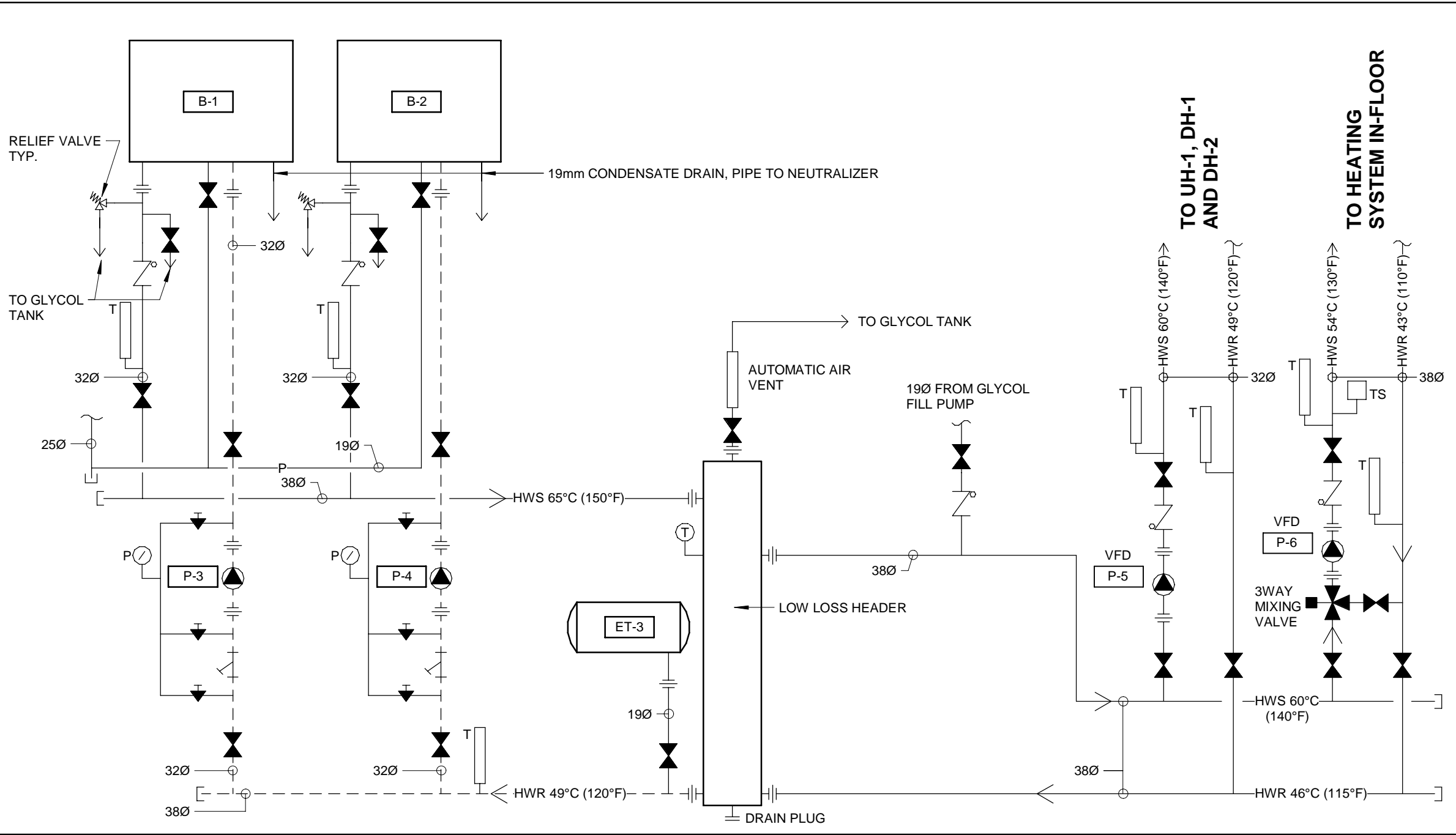
7 SCHEMATIC - INCOMING POTABLE WATER  
N.T.S.



8 DETAIL - PIPING IDENTIFICATION  
N.T.S.



9 SCHEMATIC - DOMESTIC WATER HEATING BACK TO BACK RACK SYSTEM  
N.T.S.



10 SCHEMATIC - HEAT TRANSFER PIPING  
N.T.S.

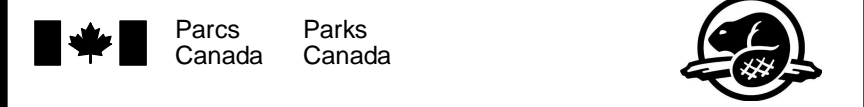

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REVISIONS

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B	B Sheet Number	B Sur feuille Numero

LINEAR DIMENSIONS IN MILLIMETERS Dimensions lineaires en millimetres



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**MECHANICAL -  
SCHEMATICS AND  
DETAILS**

Plot Scale / Echelle  
As indicated

Drawn by/ Dessin par  
NH Date  
2017- 12- 01

Field Recording by/  
Releve- Terrain par Date

Approved by/ Approuve par  
BJ Date  
2017- 04- 05

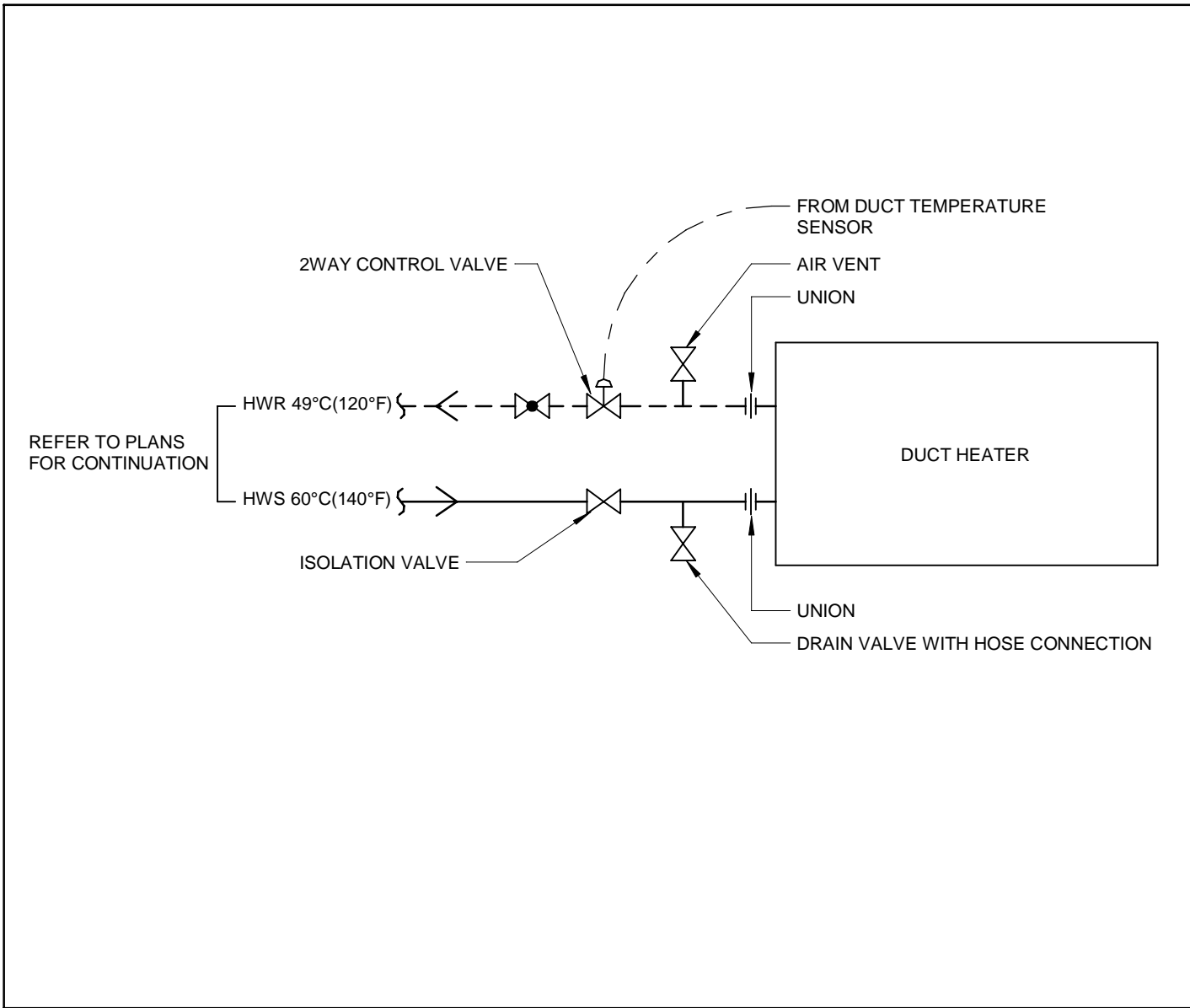
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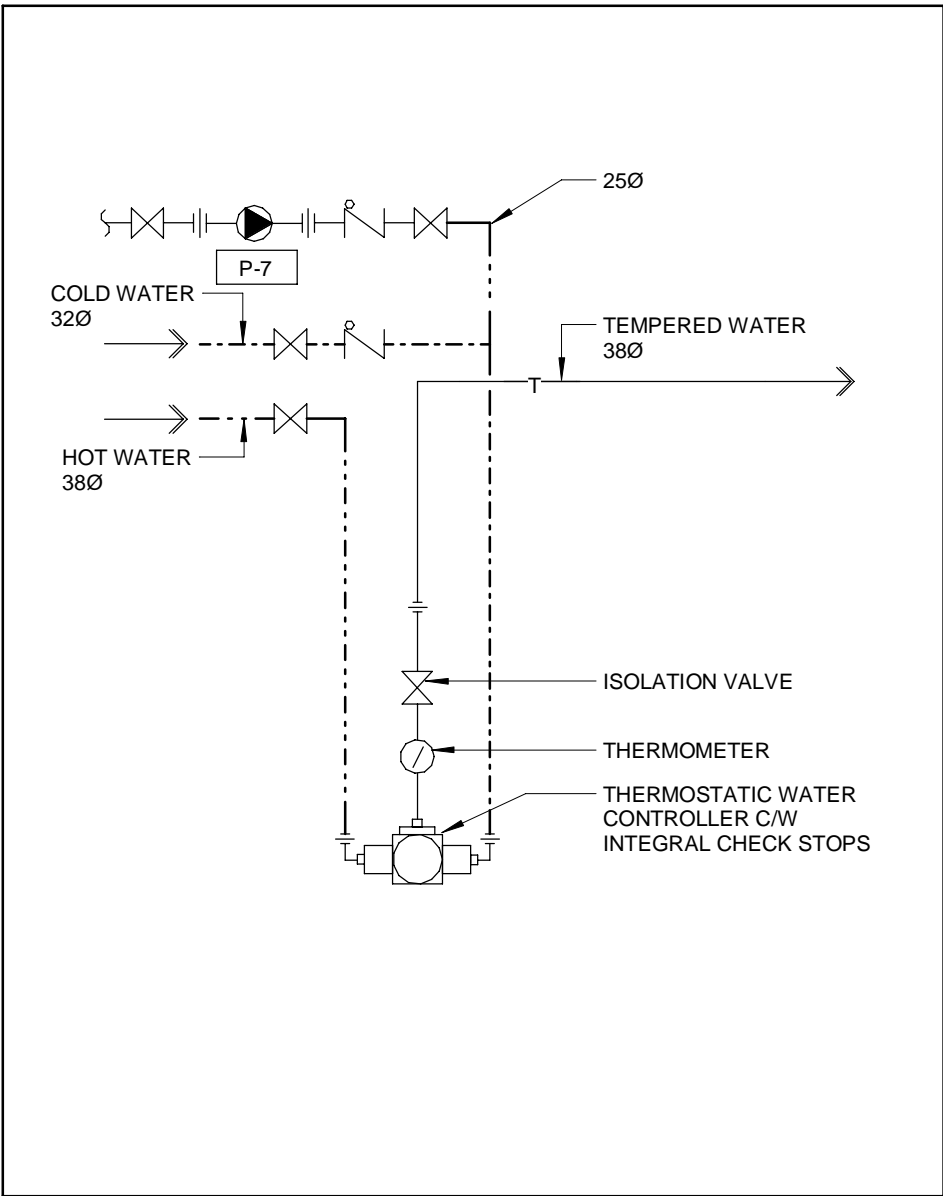
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M10

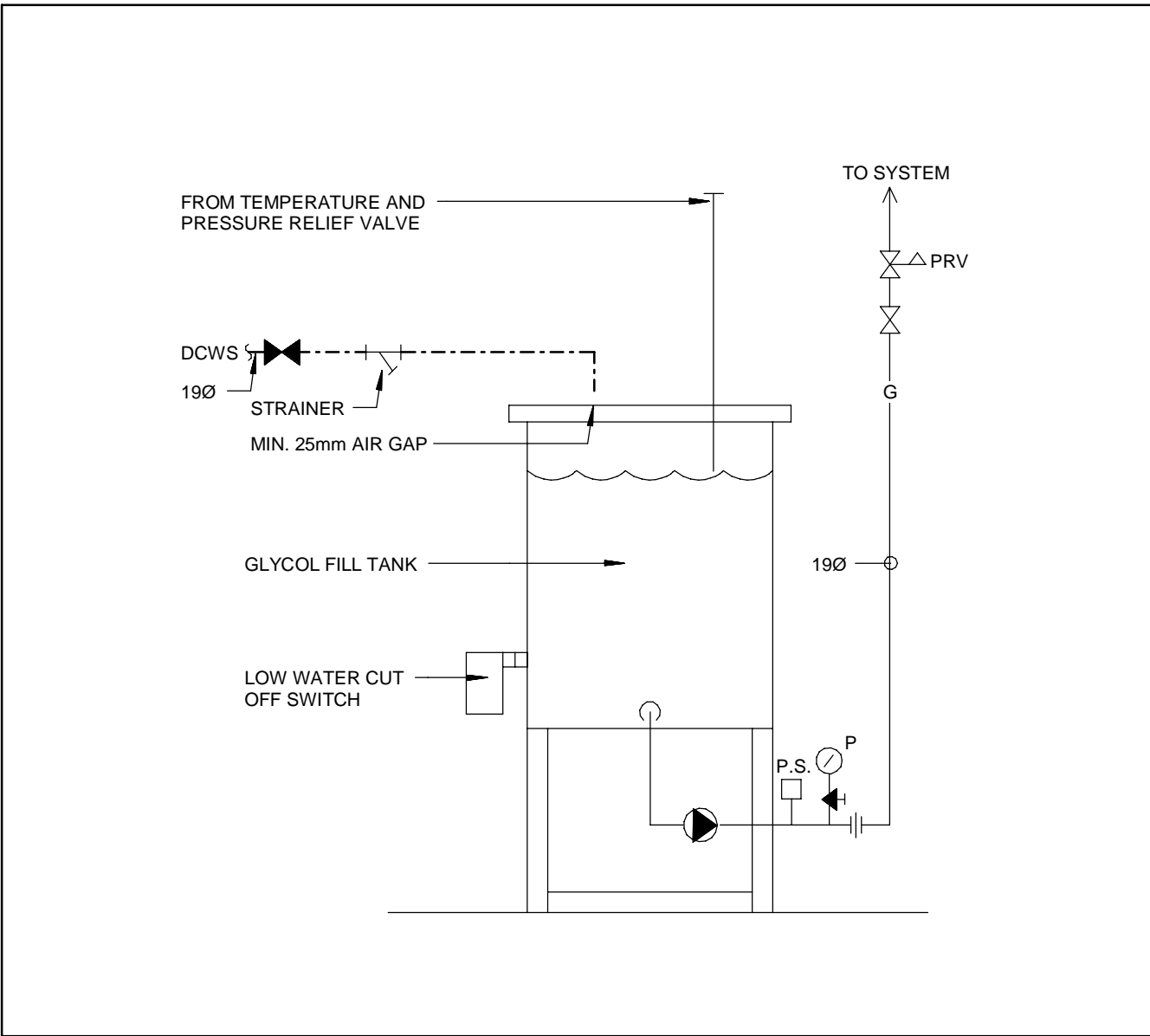




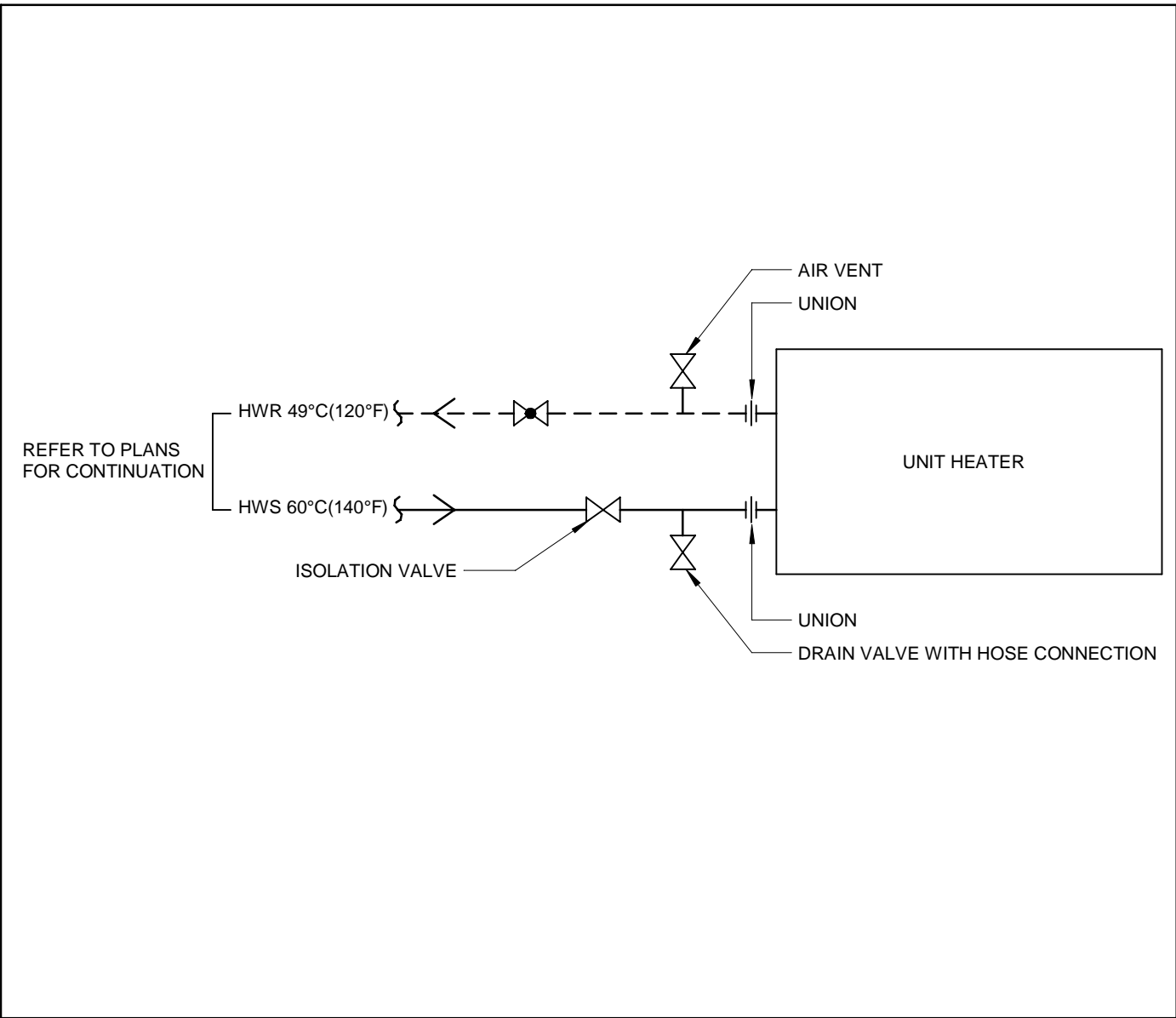
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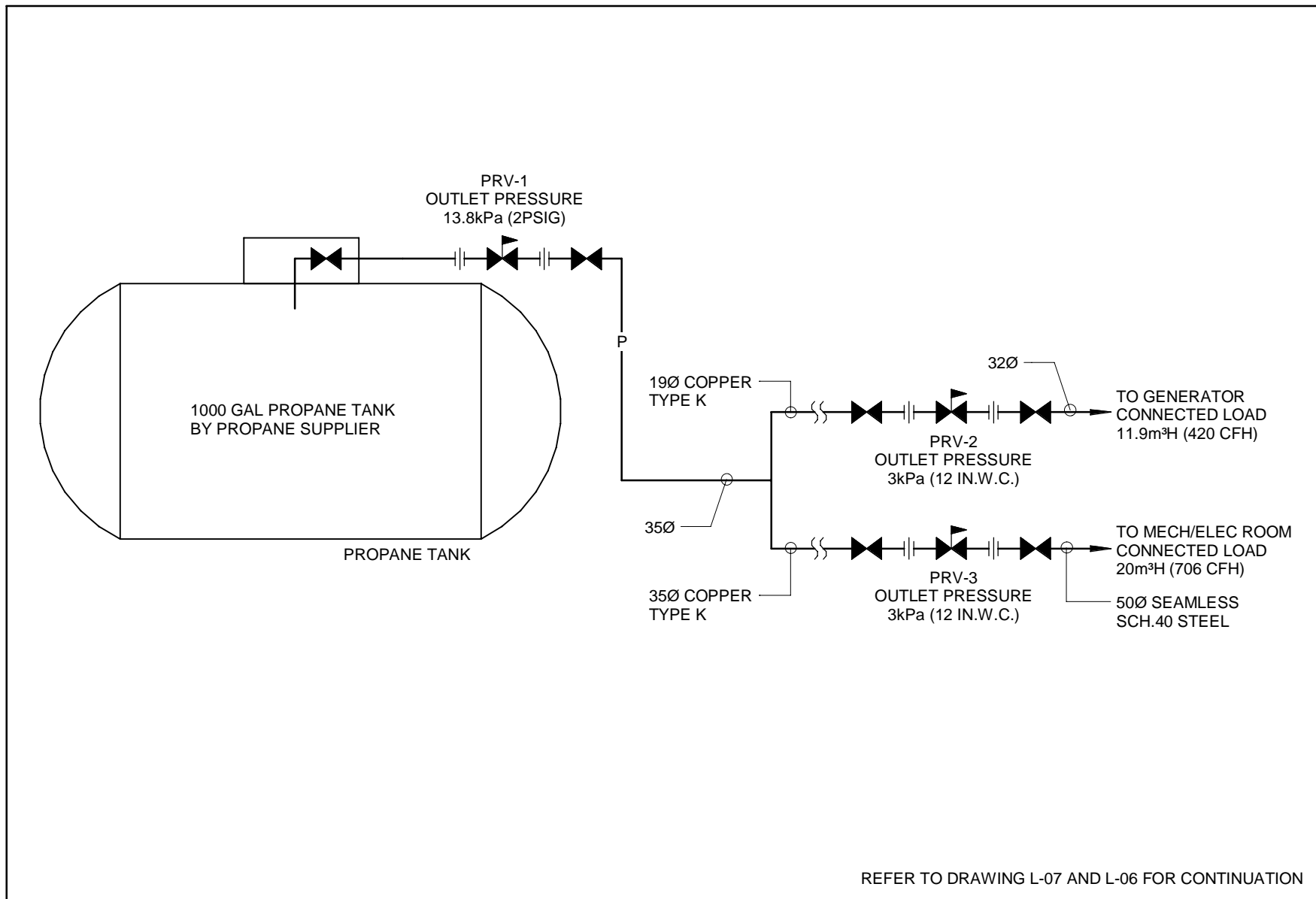
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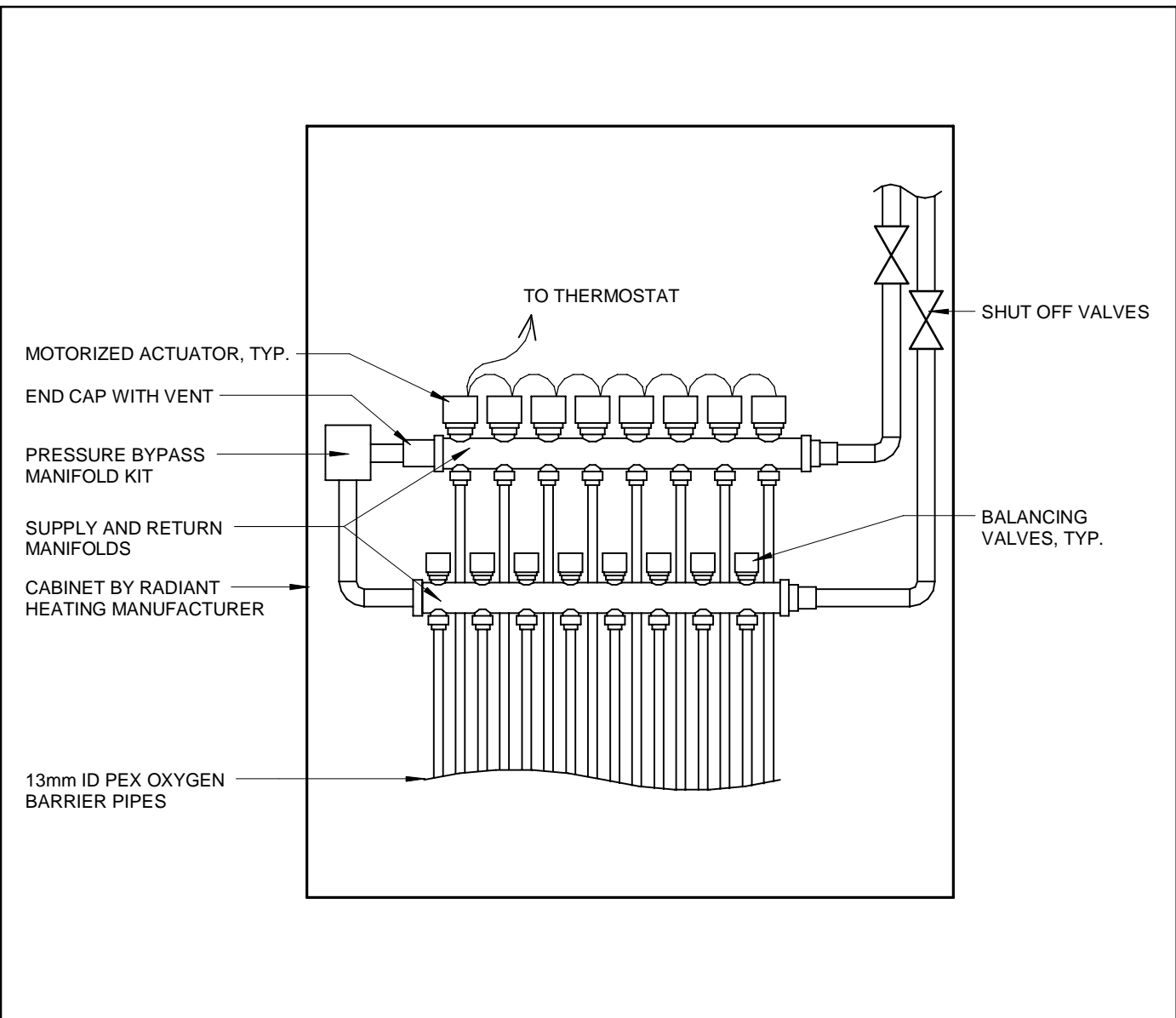
3 SCHEMATIC - PACKAGED GLYCOL MAKEUP UNIT  
N.T.S.



4 SCHEMATIC - UNIT HEATER PIPING  
N.T.S.



5 SCHEMATIC - PROPANE SERVICE  
N.T.S.



6 DETAIL - IN-FLOOR HEATING MANIFOLD  
N.T.S.



DRAWING NO.	DRAWING NAME
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0	2018- 06- 19	ISSUED FOR TENDER	NH	BG
NO.	DATE	DESCRIPTION	Drawn by/ Dessine par	Approved / Approuve

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

LINEAR DIMENSIONS IN MILLIMETERS	Dimensions lineaires en millimetres
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	Parcs Canada	
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60554372		

Drawing Re No./No. du Dessin	
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M11



ELECTRICAL ABBREVIATIONS		
<b>A</b>		
AC	ALTERNATING CURRENT	
AFF	ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GRADE	
A AMP	AMPERE	
AODA	ACCESSIBILITY FOR ONTARIANS WITH DISABILITIES ACT	
ASM	AMBIENT SENSING MICROPHONE	
AUTO	AUTOMATIC	
AUX	AUXILIARY	
AWG	AMERICAN WIRE GAUGE	
<b>C</b>		
C	CONDUIT	
CB	CIRCUIT BREAKER	
CU	COPPER	
CSA	CANADIAN STANDARDS ASSOCIATION	
<b>D</b>		
DC	DIRECT CURRENT	
DN	DOWN	
DO	DOOR OPENERS	
<b>E</b>		
E	EXISTING DEVICE/EQUIPMENT TO REMAIN	
E/R	EXISTING DEVICE/EQUIPMENT TO BE RELOCATED OR REPLACED (AS NOTED)	
ELEC	EMPTY CONDUIT	
ELEV	ELECTRICAL ELEVATION	
EXP	EXPLOSION PROOF	
<b>F</b>		
FU	FUSE	
<b>G</b>		
GRD	GROUND	
GFI	GROUND FAULT INTERRUPTING	
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	
GRS	GALVANIZED RIGID STEEL	
<b>H</b>		
HH	HAND HOLE	
HT	HEIGHT	
HTR	HEATER	
HZ	HERTZ	
<b>I</b>		
INST	INSTANTANEOUS	
<b>L</b>		
LP	LIGHTING PANEL	
<b>M</b>		
MTG	MOUNTING	
MTD	MOUNTED	
<b>N</b>		
NC	NORMALLY CLOSED	
NIC	NOT IN CONTRACT	
NO	NORMALLY OPEN OR NUMBER	
NTS	NOT TO SCALE	
<b>O</b>		
OBC	ONTARIO BUILDING CODE	
OESC	ONTARIO ELECTRICAL SAFETY CODE	
OL	OVERLOAD	
<b>P</b>		
P	POLE	
PH	PHASE	
PL	PLUG LOAD	
PR	PAIR	
PVC	POLYVINYL CHLORIDE	
<b>QTY</b>		
QTY	QUANTITY	
<b>R</b>		
R	EXISTING DEVICES/EQUIPMENT TO BE REMOVED	
REC	RECEPTACLE	
<b>S</b>		
SB	SOLAR LIGHT BOLLARD	
SN	SOLID NEUTRAL	
SW	SWITCH	
<b>T</b>		
TL	TWIST LOCK	
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR	
TW	TWISTED	
TYP	TYPICAL	
<b>U</b>		
UG	UNDERGROUND	
ULC	UNDERWRITERS LABORATORIES OF CANADA	
<b>V</b>		
V	VOLTS	
<b>W</b>		
W	WIRE	
WG	WIRE GUARD	
WP	WEATHER PROOF	

ELECTRICAL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	PANELS, FLUSH OR SURFACE MOUNTED. 'A' DENOTES PANEL NAME.		CEILING MOUNTED DOWNLIGHT FIXTURE CONNECTED TO EMERGENCY LIGHTING CIRCUIT
	120V-1P CONNECTION TO EQUIPMENT AS NOTED c/w DISCONNECT SWITCH		FLUORESCENT FIXTURE CONNECTED TO EMERGENCY LIGHTING CIRCUIT
	DIRECT CONNECTION TO EQUIPMENT		WALL MOUNTED EMERGENCY LIGHTING SINGLE REMOTE HEAD CONNECTED TO EMERGENCY BATTERY UNIT AS INDICATED.
	DISCONNECT SWITCH		WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEADS CONNECTED TO EMERGENCY BATTERY UNIT AS INDICATED.
	MANUAL STARTER		COMBINATION EMERGENCY LIGHTING (TWIN HEAD) AND EXIT SIGN
	COMBINATION MAGNETIC STARTER		CEILING MOUNTED EXIT LIGHT SIGN. ARROWS DENOTE DIRECTION
	1-PHASE MOTOR CONNECTION		WALL MOUNTED EXIT LIGHT SIGN. ARROWS DENOTE DIRECTION
	3-PHASE MOTOR CONNECTION		120V, 15AMP SINGLE POLE TOGGLE SWITCH (3 INDICATES 3-WAY , 4 INDICATES 4 WAY, 20 INDICATES 20 AMP).
	PUSHBUTTON		SINGLE POLE EXHAUST FAN SWITCH WITH RED PILOT LIGHT
	EQUIPMENT OR DEVICE AS NOTED		DIGITAL LIGHT MANAGEMENT MANUAL SWITCH
	FUSE		WALL MOUNTED DIGITAL LIGHTING SWITCH AND OCCUPANCY SENSOR
	DISCONNECT SWITCH		CEILING MOUNTED DIGITAL OCCUPANCY SENSOR WITH WIRE GUARD
	CIRCUIT BREAKER		DIGITAL LIGHT MANAGEMENT ROOM CONTROLLER RC3 = 3 RELAY CIRCUITS RC2 = 2 RELAY CIRCUITS RC1 = 1 RELAY CIRCUIT
	TRANSFORMER		15A, 125V, DUPLEX RECEPTACLE (CSA 5-15R)
	EQUIPMENT TAG NO. MOUNTED ON WALL/FLOOR		20A, 125V, DUPLEX RECEPTACLE (CSA 5-20R)
	EQUIPMENT TAG NO. MOUNTED ON CEILING		DUPLEX RECEPTACLE, INTERLOCKED WITH OCCUPANCY SENSING / PLUG LOAD CONTROLLER
	NOTE TAGS		15A, 125V, GROUND FAULT INTERRUPTING DUPLEX RECEPTACLE, (CSA 5-15R)
	DETAIL No.3 ON DRAWING E03		15A, 125V, DUPLEX RECEPTACLE, SPLIT CIRCUIT (CSA 5-15R)
	CEILING MOUNTED LED FIXTURE. 'A' DENOTES TYPE, REFER TO SCHEDULE.		15A, 125V, QUAD RECEPTACLE (2X CSA 5-15R)
	SUSPENDED LED. 'A' DENOTES TYPE, REFER TO SCHEDULE.		15A, 125V, SINGLE PHASE DUPLEX RECEPTACLE, c/w ONE GAGE STEEL FLOOR BOX FOR FLUSH INSTALLATION IN FLOOR. PROVIDE 21mmC FOR POWER SUPPLY CIRCUIT
	WALL MOUNT LIGHT FIXTURE. 'A' DENOTES TYPE, REFER TO SCHEDULE.		WALL MOUNTED SINGLE RECEPTACLE. AMPS, VOLTS AND CSA CONFIGURATION AS NOTED.
	POLE MOUNT FIXTURE. 'A' DENOTES TYPE, REFER TO SCHEDULE.		20A, 125V SINGLE GROUND FAULT INTERRUPTING RECEPTACLE CSA 5-20R
	CEILING MOUNT FIXTURE. 'A' DENOTES TYPE, REFER TO SCHEDULE.		TELEPHONE OUTLET. PROVIDE 21mmC (3/4"C) FROM WALL OUTLET TO ACCESSIBLE CEILING SPACE UNLESS OTHERWISE NOTED.
	KEY SWITCH / KEY PAD		DATA OUTLET. PROVIDE 21mm C (3/4"C) FROM WALL OUTLET TO ACCESSIBLE CEILING SPACE UNLESS OTHERWISE NOTED.
	PHOTOCELL		DATA / TELEPHONE OUTLET
	LIGHTING CONTACTOR		WALL MOUNTED CLOCK
	TV OUTLET. PROVIDE 21mmC (3/4"C) FROM WALL OUTLET TO ACCESSIBLE CEILING SPACE UNLESS OTHERWISE NOTED.		20mm X 3000mm GROUND ELECTRODE (COPPER)
	24HR, 7-DAY ELECTRONIC TIME SWITCH, 20A, 120V		GROUND BONDING POINT TO STEEL STRUCTURE, REBAR, PIPE, ETC.
	MOTION DETECTOR		GROUNDING CONNECTION (TYPE AS SHOWN OR NOTED)
	ELECTRIC STRIKE		GROUND BAR
	DOOR CONTACT		MANHOLE: X INDICATES TYPE AS FOLLOWS P = POWER MANHOLE T = TELECOMMUNICATIONS MANHOLE
	CARD READER		UTILITY REVENUE METERING
	ELECTRIC HINGE		
	JUNCTION BOX		UNDERGROUND WIRING (DIRECT BURIED OR CONCRETE ENCASED DUCTS)
	INTERCOM		UNDERGROUND PHONE LINES (DIRECT BURIED OR CONCRETE ENCASED DUCTS)
	CONTACTOR		UNDERGROUND WIRING (DIRECT BURIED OR CONCRETE ENCASED DUCTS)
	PUSH BUTTON		POTENTIAL TRANSFORMER
	SECURITY CAMERA		CURRENT TRANSFORMER
			TELE COMMUNICATION CABLING 'J-HOOKS' (INSTALLED AT MAXIMUM 1220mm O/C)
			TELE COMMUNICATION CABLING TRAY

- 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.

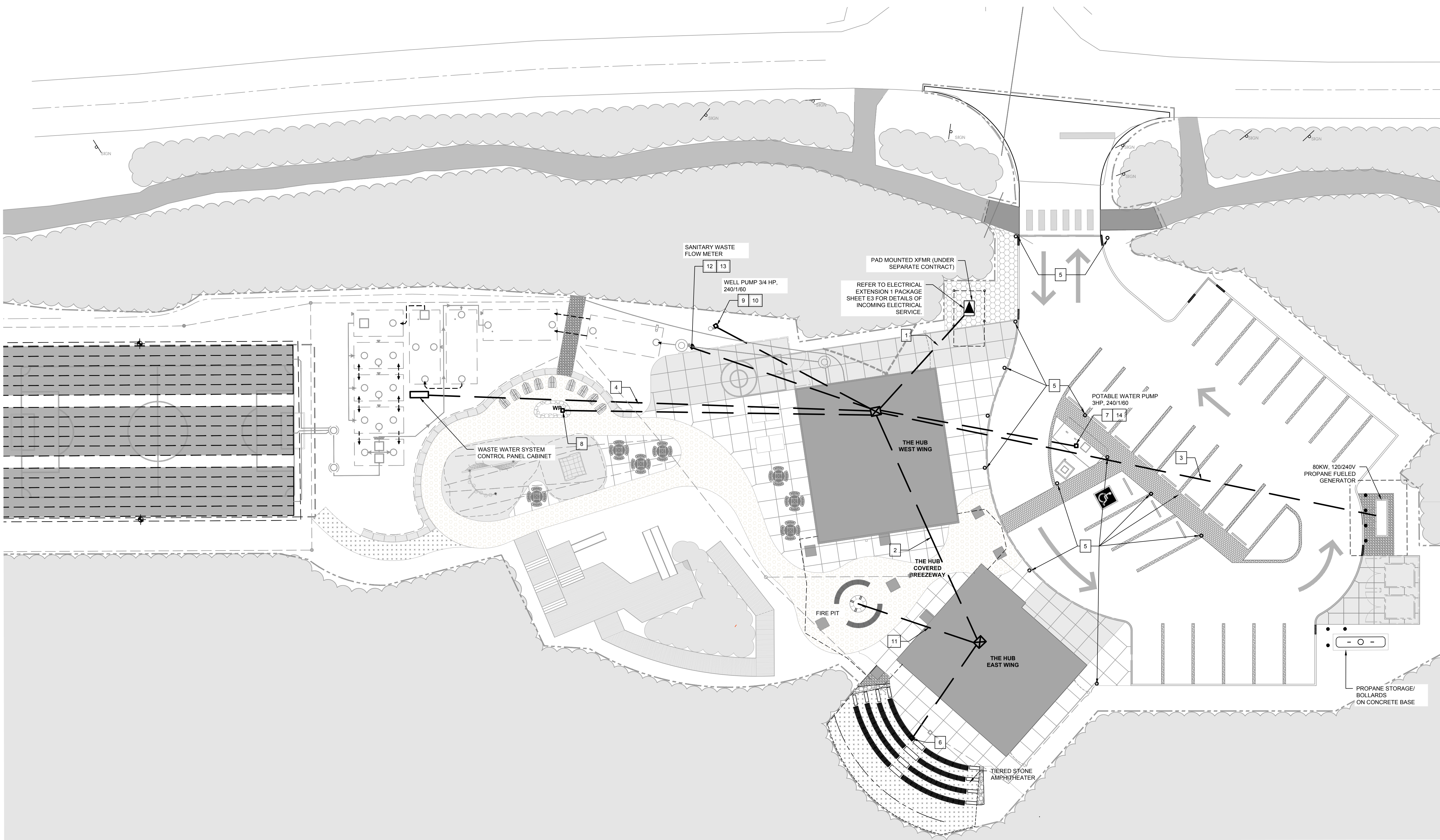
CHECK AND VERIFY THE LOCATIONS OF ALL PANELBOARDS, DISCONNECTS, RECEPTACLES, CONDUITS AND EQUIPMENT WITH THE WORK OF OTHER TRADES TO PREVENT INTERFERENCE. REMOVAL AND RELOCATION OF ANY SUCH WORK INTERFERING WITH THE WORK OF OTHER TRADES IS THE RESPONSIBILITY OF THE ELECTRICAL TRADE(S), UNLESS OTHERWISE 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				
0	2018- 06- 19	ISSUED FOR TENDER	NT / GM	MB
NO.	DATE	DESCRIPTION	Drawn by/ Dessine par	Approved / Approuve
REVISIONS				
<div><div><div>A</div><div>B</div></div><div>A Detail Number B Sheet Number</div><div>A Numero de Detail B Sur feuille Numero</div></div>				
LINEAR DIMENSIONS IN MILLIMETERS		Dimensions lineaires en millimetres		
<div><div></div><div>Parcs Canada Parks Canada</div><div></div></div>				
Canadä				
PARKS CANADA				
Type of Record / Type d'enregistrement				
Project title / Titre du projet CYPRUS LAKE CAMPGROUND - THE HUB AMENITY BUILDING				
Drawing title / Titre du Dessin LEGEND AND GENERAL NOTES				
Plot Scale / Echelle N.T.S.				
Drawn by/ Dessin par HD		Date		
Field Recording by/ Releve- Temoins par		Date		
Approved by/ Approuve par MB		Date		
Checked by/ Verife par MB		Date		
Project No./No. du projet 60554372		Asset No.		Sheet No./ Feuille No.
Drawing Re No./No. du Dessin				E1





NOTES:

- 1

PROVIDE UNDERGROUND RPVC DUCTS (2@103mm) FROM PAD MOUNTED TRANSFORMER TO THE WEST WING ELECTRICAL ROOM FOR SERVICE ENTRANCE CONDUCTORS. REFER TO SINGLE LINE DETAIL.
- 2

PROVIDE UNDERGROUND RPVC DUCTS (4@63mm) BETWEEN THE WEST WING ELECTRICAL ROOM AND THE EAST WING ELECTRICAL CLOSET. (1-POWER, 2-COMMUNICATIONS, 1-SPARE.) PROVIDE PULL WIRE IN SPARE DUCT AND CAP.
- 3

PROVIDE UNDERGROUND RPVC DUCTS (2@63mm - POWER, 1@53mm SHORE POWER, 1@41mm CONTROLS) BETWEEN STANDBY- EMERGENCY GENERATOR AND WEST WING ELECTRICAL ROOM FOR POWER AND CONTROL WIRING. CONFIRM WIRING REQUIREMENTS WITH GENERATOR MANUFACTURER. REFER TO SINGLE LINE DETAIL.
- 4

PROVIDE UNDERGROUND RPVC DUCTS (2@63mm) BETWEEN WEST WING ELECTRICAL ROOM DP-A AND WASTE WATER TREATMENT CONTROL PANEL FOR POWER WIRING AND FUTURE COMMUNICATIONS WIRING. REFER TO SINGLE LINE DETAIL.
- 5

PROVIDE SOLAR POWERED LIGHTING BOLLARDS IN PARKING LOT AND BUILDING EXTERIOR. SEE LIGHTING SCHEDULE FOR DETAILS.
- 6

PROVIDE WEATHERPROOF POWER AND DATA SERVICES- BOX, NEMA 4x WITH LOCKING ¼ TURN LATCH MOUNTED ON SIDE OF THE BENCH PEDESTAL NEAREST THE CENTER WALKWAY. PROVIDE 2x27mm RPVC DUCTS TO RECEPTACLE BOX FROM ELECTRICAL ROOM 106. PROVIDE GFCI RECEPTACLE IN BOX (CCT. B-19).
- 7

PROVIDE WEATHERPROOF JUNCTION BOXES WITH WOOD POST (CEDAR, 150X150)FOR SERVICE TO POTABLE WATER PUMP. PROVIDE- 1X27mm (POWER) AND 1X32mm (INSTRUMENTATION) RPVC DUCTS TO JUNCTION BOX FROM PUMP CONTROL PANEL IN THE WEST WING. PROVIDE 3 #10 RW90+ #12 BOND FOR POWER FEED. PROVIDE LOCAL DISCONNECT SWITCH, NEMA 4X PROVIDE TWO (2) TWISTED SHIELDED PAIR CABLE FOR LEVEL TRANSMITTER WIRING.
- 8

PROVIDE 2 # 10 RW90 + #12 BOND IN 27mm RPVC DUCT FROM DP-A TO A GFCI RECEPTACLE AT WATER FEATURE. MOUNT RECEPTACLE ON WOOD POST (CEDAR 150mm x 150mm) AND PROVIDE WHILE-IN-USE WEATHER PROOF COVER.
- 9

PROVIDE WEATHERPROOF PVC JUNCTION BOX ON WOOD POST (CEDAR, 150X150) FOR POWER AND CONTROL WIRING TO WELL PUMP. PROVIDE 2x27mm RPVC DUCTS TO JUNCTION BOX FROM PUMP CONTROL PANEL IN THE WEST WING.
- 10

PROVIDE 3 #10 RW90 + #12 BOND FOR PUMP POWER. PROVIDE LOCAL DISCONNECT SWITCH, NEMA 4X. CONFIRM WIRING REQUIREMENTS WITH PUMP SHOP DRAWINGS.

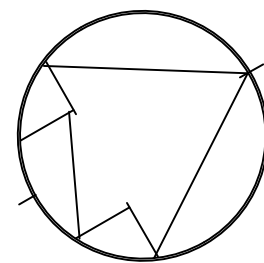
- 11

PROVIDE 2 #12 RW90 + #12 BOND IN 21mm RPVC DUCT FROM CONTROL SWITCH IN ELECTRICAL ROOM TO FIREPIT ELECTRICAL IGNITION DEVICE.
- 12

PROVIDE WEATHERPROOF PVC JUNCTION BOX ON WOOD POST (CEDAR, 150X150) FOR INSTRUMENTATION WIRING TO FLOW METER SENSOR IN SANITARY MANHOLE. PROVIDE 32mm RPVC CONDUIT FROM MANHOLE, THROUGH JUNCTION BOX TO MEASUREMENT TRANSMITTER IN MECHANICAL AND ELECTRICAL ROOM 200. PROVIDE EYS SEAL ON CONDUIT AT JUNCTION BOX.
- 13

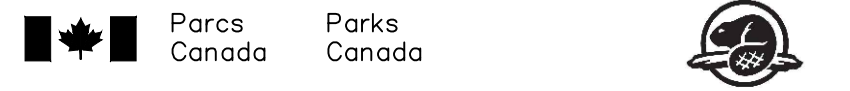
REFER TO SPECIFICATION SECTION 26 05 05 FOR DETAILS OF FLOW METER AND SENSOR TO BE SUPPLIED. CO-ORDINATE SENSOR INSTALLATION IN 150mm SANITARY PIPE WITH CIVIL CONTRACTOR.
- 14

REFER TO SPECIFICATION SECTION 26 05 05 FOR DETAILS OF ULTRASONIC LEVEL CONTROLLER AND TRANSDUCER TO BE SUPPLIED.



		XXXX		
DRAWING NO.		DRAWING NAME		
<u>REFERENCE DRAWINGS</u>				
0	2018-06-19	ISSUED FOR TENDER	HD/AH	MB
NO.	DATE	DESCRIPTION	Drawn by Dessine par	Approved Approuve
<u>REVISIONS</u>				

A	A Detail number	A Numero de detail
B	B Sheet number	B Sur feuille numero
Linear dimensions in millimeters		Dimensions lineaires en millimetres



Canada

PARKS CANADA  
EASTERN ONTARIO FIELD UNIT

Type of Record /  
Type d'enregistrement

Project title / Titre du projet  
**BRUCE PENINSULA NATIONAL PARK  
THE HUB**

Drawing title / Titre du dessin

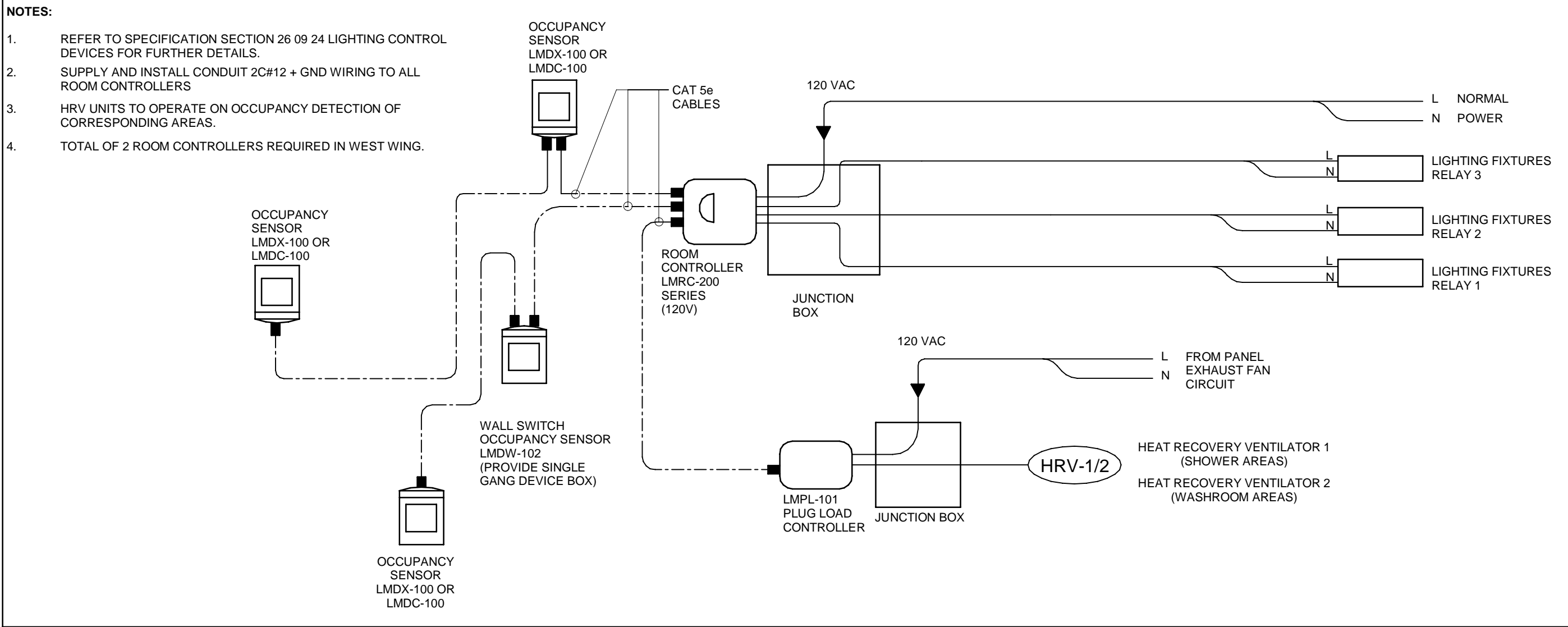
**ELECTRICAL  
SITE PLAN**

Plot Scale / Echelle 1:200 (Arch D 24x36 Plot Size)		
Drawn by/ Dessine par HD	Date	
Field Recording by / Releve-Temoin par	Date	
Approved by / Approuve par	Date	
Checked by/ Verifie par	Date	
Project No./ No. du projet	Asset No.	Sheet No./ Feuille No.
Drawing Re No./No. du Dessin		<b>E2</b>

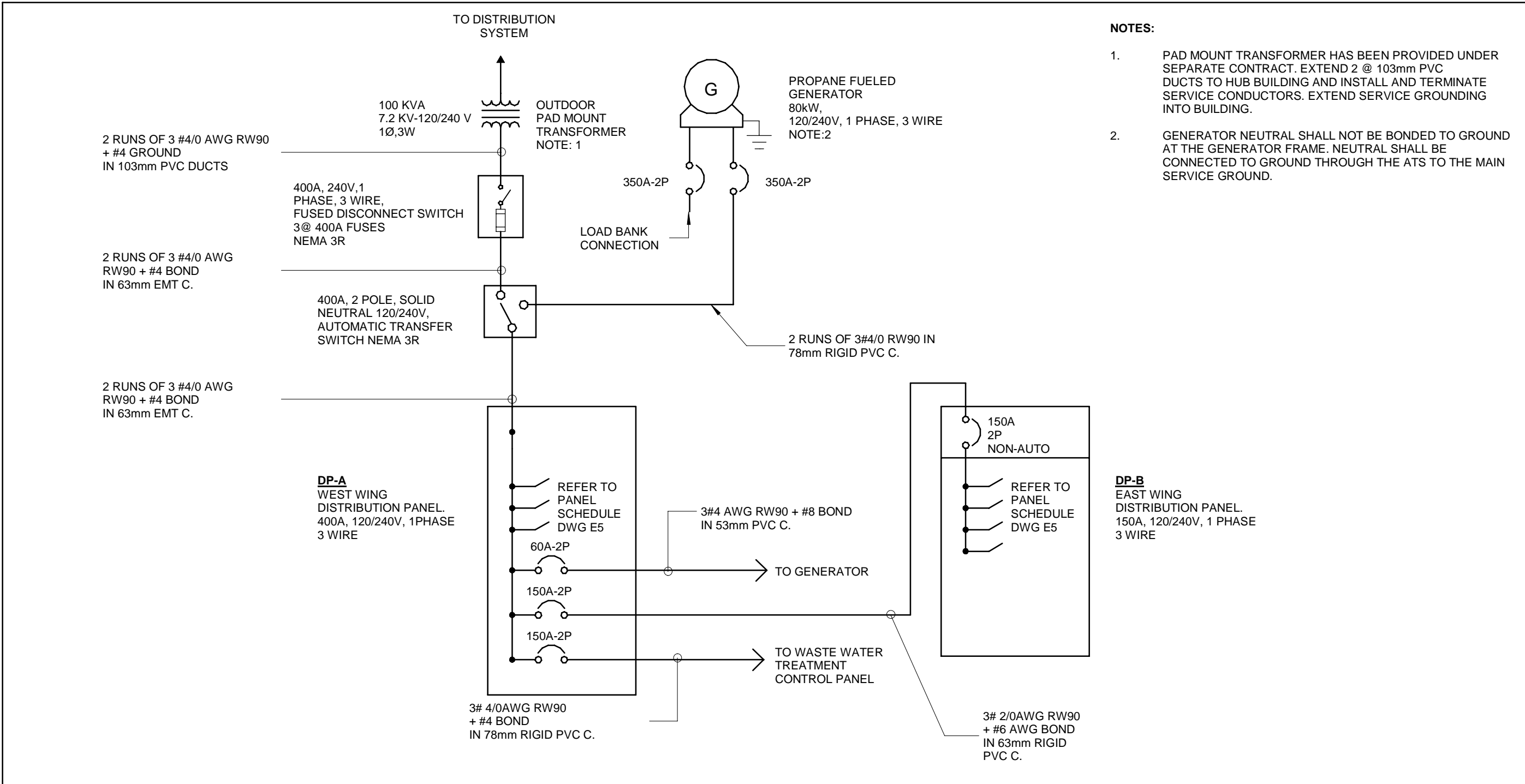




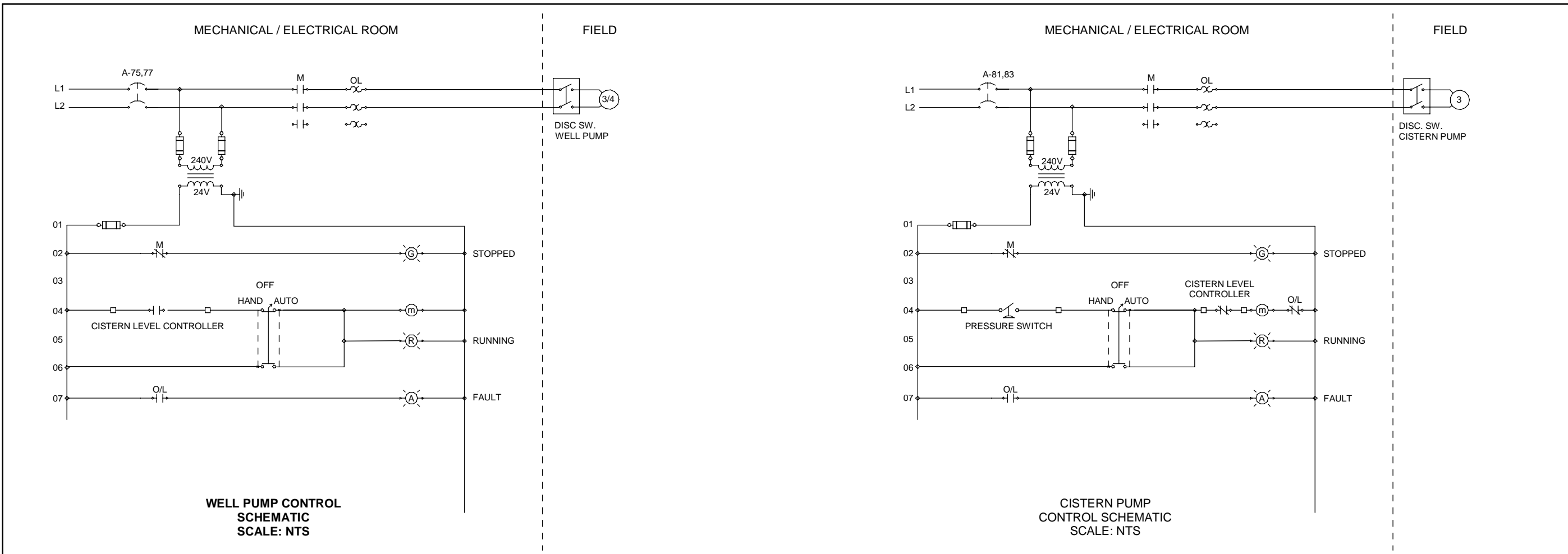




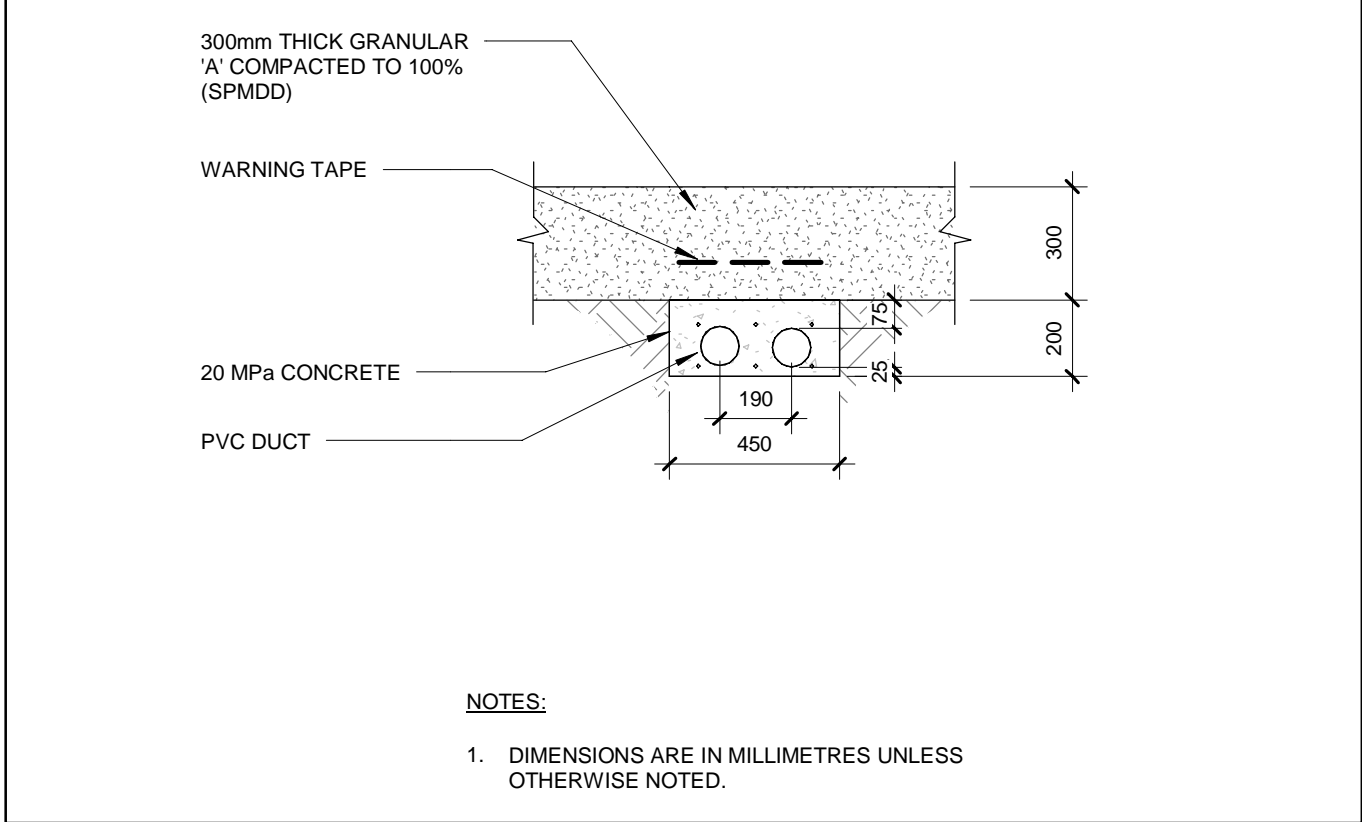
**1** TYPICAL LIGHTING CONTROL DETAIL  
1:5



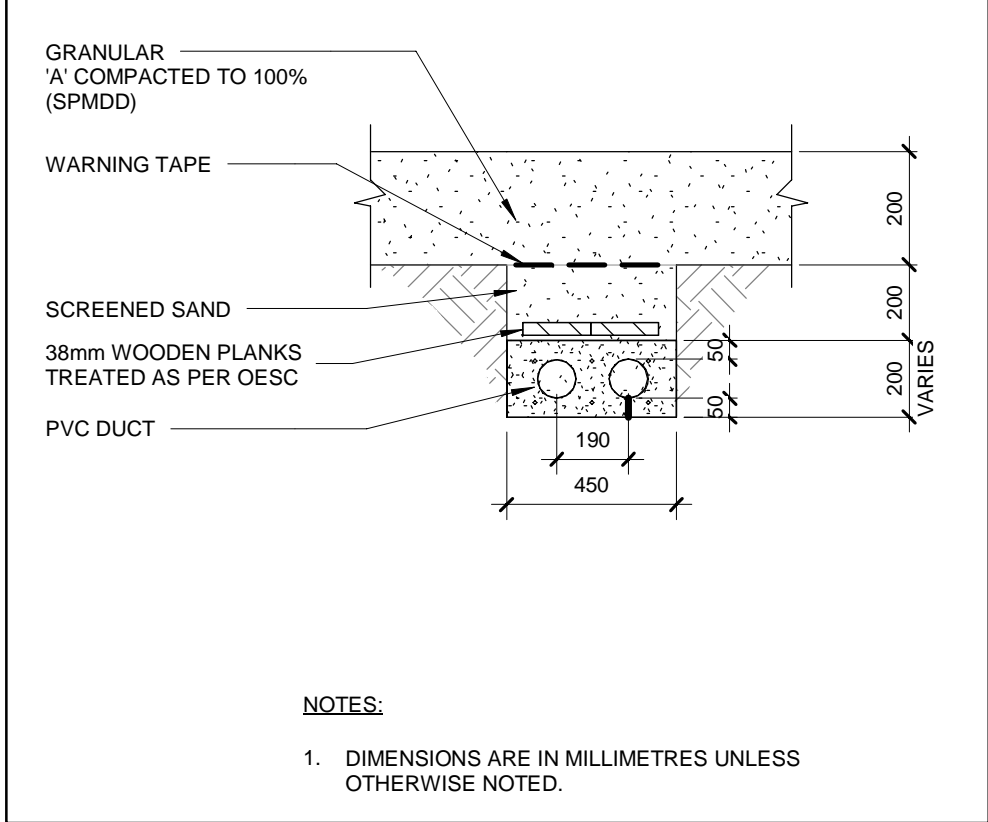
**4** SINGLE LINE DIAGRAM - RECEPTION BUILDING  
N.T.S.



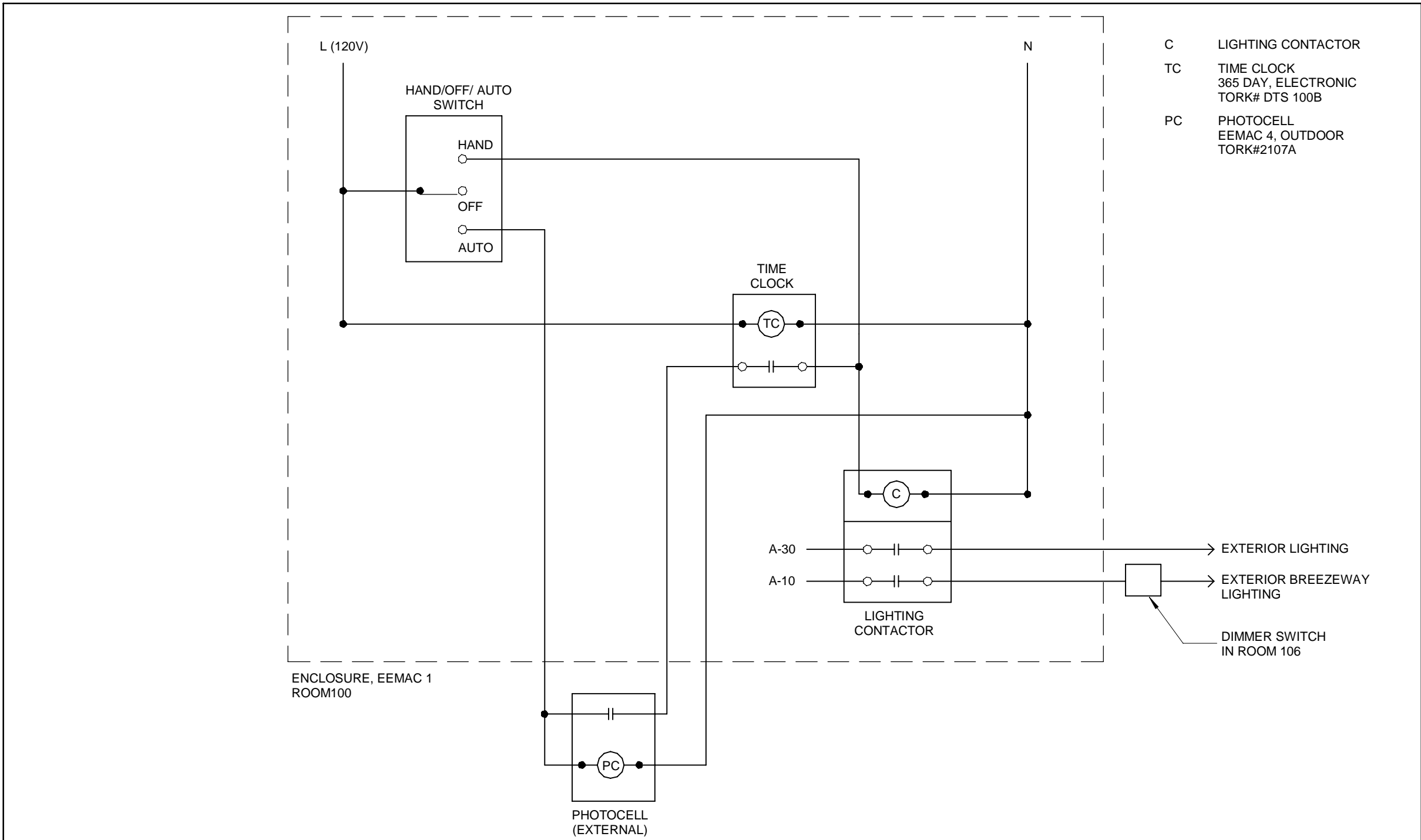
**7** CONTROL SCHEMATICS  
N.T.S.



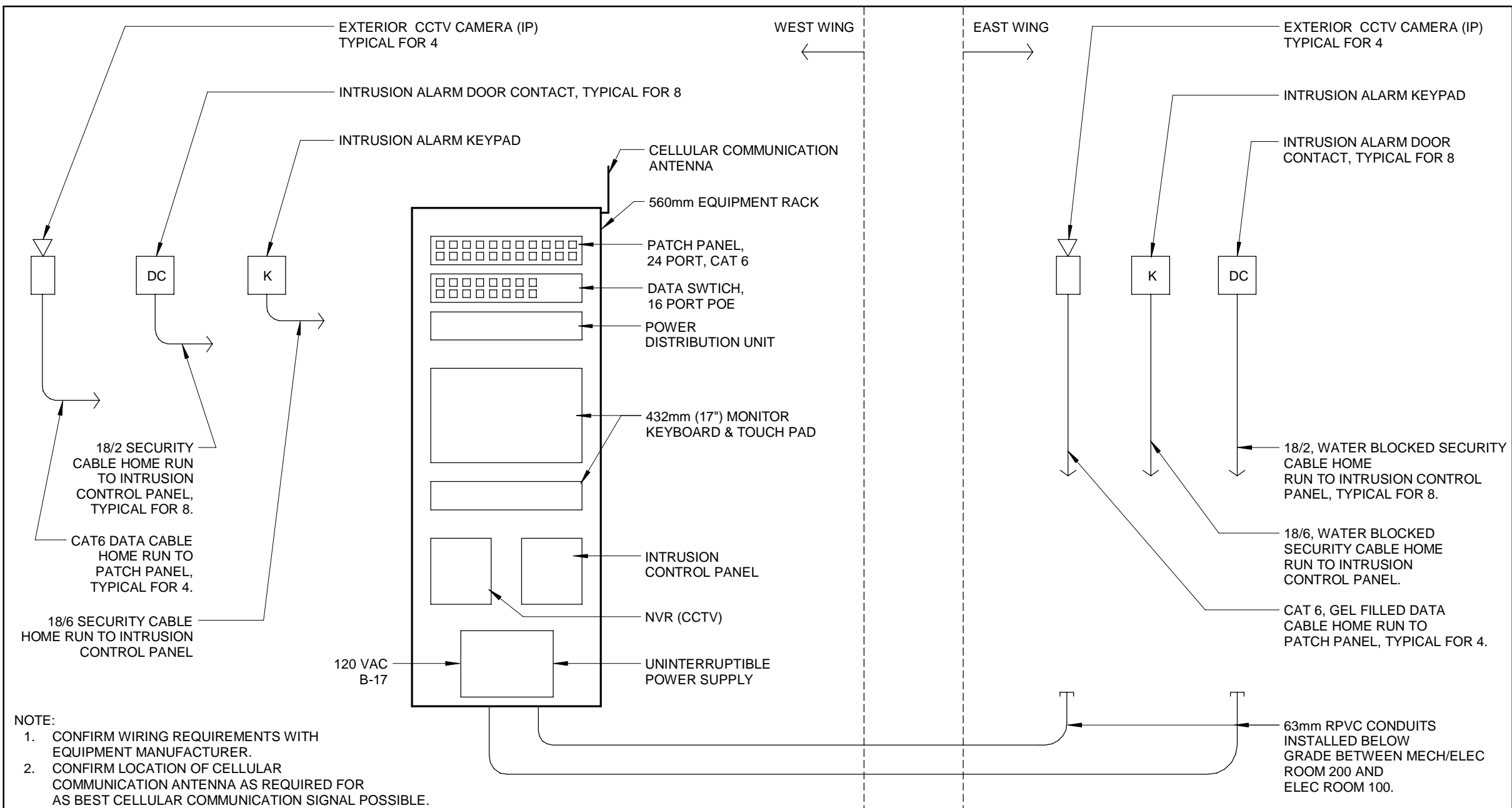
**2** 2-CELL CONCRETE ENCASED DUCTBANK  
1:20



**3** DIRECT BURIED 2-DUCT DETAIL  
1:20



**5** EXTERIOR LIGHTING CONTROL SCHEMATIC  
N.T.S.



**6** CCTV INTRUSION ALARM DETAIL  
N.T.S.

DRAWING NO. DRAWING NAME

REFERENCE DRAWINGS

NO.	DATE	DESCRIPTION	Drawn by/ Dessine par	Approved / Approuvé
0	2018-06-19	ISSUED FOR TENDER	NT / GM	MB

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

LINEAR DIMENSIONS IN MILLIMETERS	Dimensions lineaires en millimetres
Parcs Canada	Parks Canada

**Canada**

PARKS CANADA

Type of Record /  
Type d'enregistrement

Project title / Titre du projet  
**CYPRUS LAKE CAMPGROUND - THE HUB AMENITY BUILDING**

Drawing title / Titre du Dessin  
**ELECTRICAL DETAILS**

Plot Scale / Echelle  
As indicated

Drawn by/ Dessin par  
HD

Field Recording by/  
Releve- Terrain par

Approved by/ Approuvé par  
MB

Checked by/ Verifie par  
MB

Project No./No. du projet  
60554372

Asset No.  
Drawing Re No./No. du Dessin

Sheet No./  
Feuille No.  
**E4**



