YUKON ASSOCIATION OF EDUCATION PROFESSIONALS HEAD OFFICE LOT 38, BLOCK 316 - 151 BLACK ST.

LIST OF DRAWINGS

ARCHITECTURAL

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M200	PLUMBING PLANS
M300	VENTILATION PLANS
M400	ENLARGED MECHANICAL ROOM PLAN
M500	MECHANICAL SCHEDULES
M501	MECHANICAL SPECIFICATION

ELECTRICAL

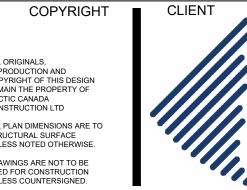
E001	ELECTRICAL SITE PLAN
E101	LIGHTING PLANS
E201	POWER AND SYSTEM PLANS
F301	FLECTRICAL SCHEDULES AND SPECIFICATION

							T	NBC R	eference		
Item	2015 1	2015 National Building Code Data Matrix ^I									
′	1	D	ivision A or [[C] for Division (2						
	Project Description: Office Building			New Addition Alteration Change of Use			Part 3				
2	Major Occupancy(s):	D - Business & Perso	onal Servic				T.3.1.2.1				
3	Building Area (m²)	New:	300	Total:	300		3.2.2.62		1.4.1.2[A]		
5	Number of Storeys	Above grade:	2	Below grade:	0				1.4.1.2[A]		
6	Number of Streets / Fire Fighter Access:	2					3.2.2.10				
7	Building Classification:	Group D					3.1.2.1				
8	Sprinkler System Entire Building Basement Only In lieu of roof rating not required										
9	Fire Alarm required	Yes		No			3.2.4.1				
10	Building Height:	8m					1.3.3.2				
11	Permitted Construction	☐ Combustible		Non-Combustible		Both	3.2.2.62				
!	Actual Construction	Combustible		Non-Combustible		Both					
12	Occupant Load	m²/person		design of building			T.3.1.17.1				
		rson) 230m ² = 25 per	rsons	То		people max					
	Barrier-free Design	Yes		No			3.8.2.1				
	Stairs & Railings	Yes		No		•	3.3.2.15				
	Exit width	Yes		No		•	3.4.3.3				
	Direction of Door Swing	Yes	<u>—</u>	No		•	3.3.1.11				
	Number of Required Exits (1)	Yes		No		·	3.4.2.1				
	Number of Required Extinguishers (1)	Yes		No			3.2.5.16				
	Exit Signs Emergency Lighting	☐ Yes		No No		· ·	3.4.5.1				
	Number of Required Water Closets (2)	O Unisey		No 1 Male		•	3.2.7.3				
	Number of Required Water Closets (2)	0 Unisex		1 Male 1 Male		Female Female	3.7.2				
	Number of Designed Water Closets (2) 2 Unisex 0 Male 0 Female Fire Resistance Ratings 1hr service/mech room (45min door) 3.2.2.62 45min separation between floors 45min load bearing walls and columns on main floor 45min Janitor Room										
23	Spatial Separation - Construction of Exterio	r Walls					T.3.2.3.1E	В	T.3.2.3.7		
	Wall	Area of EBF (m²)	Actual Area Openings	Net Area of EBF (m ²)	Min F.R.R.	Proposed % of Openings	Minimum Limiting Distance	Permitted Max. % of Openings	Required Construction	Required Cladding	
,	East	75.2	15.01	60.19	1hr	20%	15.0m	100%	C or Nc	C or Nc	
,	North	133.6	40.15	93.45	45min	30%	22.0m	100%	C or Nc	C or Nc	
,	West	62.7	12.74	49.96	45min	20%	7.0m	64%	C or Nc	Nc	
1	South	143.9	0.00	143.9	1hr	0%	0.0m	0%	Nc	Nc	

This Building Code Summary is provided for project initiation, the interpretation of applicable codes is subject to the Authority Having Jurisdiction







Association

of **Education**

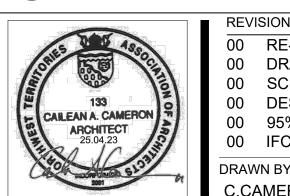
Professionals

des professionnels

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PERMIT TO PRACTICE & SEAL **ARCAN** PERMIT No. 016 Issued pursuant to Section 29 of the Architects Act of the Northwest Territories



BY DD/MMM/YYYY C.A.C 2022-03-02 C.A.C 2022-04-01 C.A.C 2022-04-22 C.A.C 2022-12-20 00 95% REVIEW C.A.C 2023-03-03 C.A.C 2023-04-25

CHECKED BY

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YUKON TEACHERS' ASSOCIATION **HEAD OFFICE**

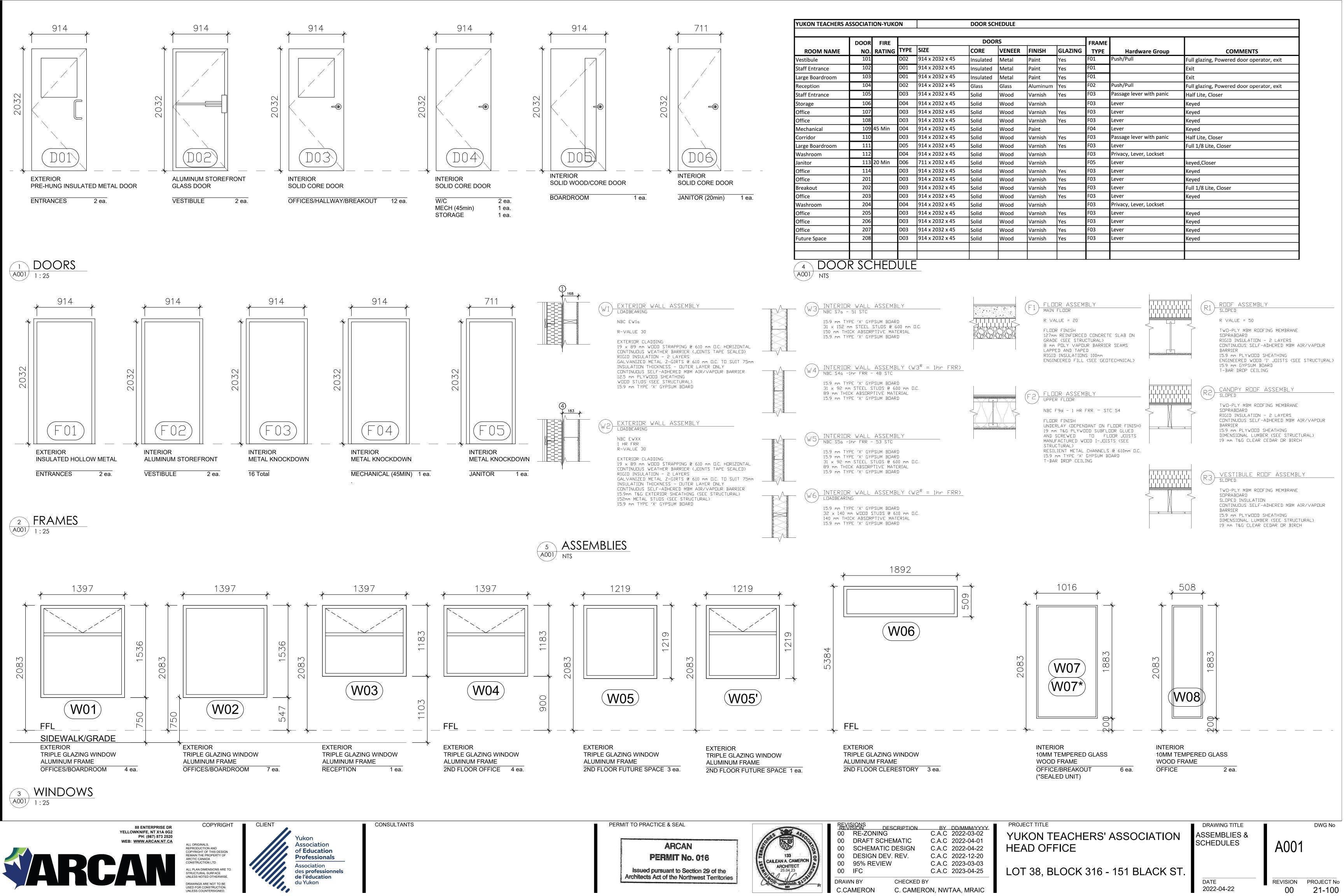
DRAWING TITLE **COVER SHEET**

A000 REVISION PROJECT No

21-100

2022-04-22

LOT 38, BLOCK 316 - 151 BLACK ST



ROOM		<u></u>	1			FINISH		1		T	T	_
O NAME	FLOOR	BASEBOARD	North	W East	VALL South	West	CEILING	MILLWORK	WINDOWS & CASING	DOORS & TRIM	OTHER	REMARKS
01 VESTIBULE	Non-slip sheet vinyl		Aluminum & glass storefront	T&G Wood		n/a	Gypsum, Paint	n/a	n/a	Aluminum & glass	n/a	
02 RECEPTION / WAITING	Commercial grade LVP			Gypsum, Paint - Field	d Gypsum, Paint - Field	Gypsum, Paint - Field	Gypsum, Paint	Reception Desk, see drawing details	Aluminum same colour in & out, gypsum returns with ply	Aluminum & glass	Stair finish see drawing details	
.03 CORRIDOR	Commercial grade LVP	100mm Rubber base	Gypsum, Paint - Field	Gypsum, Paint - Field	d Gypsum, Paint - Field	Gypsum, Paint - Field	Gypsum, Paint	n/a	sill painted to match walls n/a	Paint Trim, Door Finish A	n/a	
.04 STAFF ENTRANCE	Non-slip sheet vinyl	100mm Rubber base	Gypsum, Paint - Field	Gypsum, Paint - Field	d Gypsum, Paint - Field	Gypsum, Paint - Field	Gypsum, Paint	Bench & Shelf see drawing details	n/a	Paint Door & Trim	n/a	
LO5 STORAGE	Commercial grade LVP	100mm Rubber base	Gypsum, Paint - Field	Gypsum, Paint - Field	d Gypsum, Paint - Field	Gypsum, Paint - Field	Gypsum, Paint	n/a	n/a	Paint Trim, Door Finish A	n/a	
106 PRINTING ALCOVE	Commercial grade LVP	100mm Rubber base	Gypsum, Paint - Field	Gypsum, Paint - Accent	Gypsum, Paint - Field	n/a	Gypsum, Paint	Plastic Laminate counter - Colour A, cabinetry Colour B	n/a	n/a	n/a	
.07 KITCHEN / COMMON	Commercial grade LVP	100mm Rubber base	Gypsum, Paint - Field	Gypsum, Paint - Field	d Gypsum, Paint - Field	Gypsum, Paint - Field	Gypsum, Paint	Plastic Laminate counter - Colour A, cabinetry Colour B	n/a	n/a	n/a	
.08 OFFICE	Carpet Tile	100mm Rubber base	Gypsum, Paint - Field	Gypsum, Paint - Field	d Gypsum, Paint - Field	Gypsum, Paint - Field	Ceiling Tile	n/a	Aluminum same colour in & out, gypsum returns with ply sill painted to match walls	Paint Trim, Door Finish A	n/a	
.09 OFFICE	Carpet Tile	100mm Rubber base	Gypsum, Paint - Field	Gypsum, Paint - Field	d Gypsum, Paint - Field	Gypsum, Paint - Field	Ceiling Tile	n/a	Aluminum same colour in & out, gypsum returns with ply sill painted to match walls	Paint Trim, Door Finish A	n/a	
L10 MECHANICAL	Painted Concrete - gray	n/a	Primed gypsum	Primed gypsum	Primed gypsum	Primed gypsum	Primed gypsum	n/a	n/a	Paint Trim, Door Finish A	n/a	
111 CORRIDOR	Commercial grade LVP	100mm Rubber base	Gypsum, Paint - Field	Gypsum, Paint - Field	d Gypsum, Paint - Field	Gypsum, Paint - Field	Gypsum, Paint	n/a	n/a	Paint Trim, Door Finish A	n/a	
112 LARGE BOARDROOM	Carpet Tile	100mm Rubber base	Gypsum, Paint - Accent	Gypsum, Paint - Field	d Gypsum, Paint - Field	Gypsum, Paint - Field	T&G Wood	n/a	Ext: Aluminum same colour in & out, gypsum returns with ply sill painted to match walls Int: wood frames painted to match trim		n/a	
113 WASHROOM	Non-slip sheet vinyl	100mm Rubber base	Gypsum, Paint - Field	Gypsum, Paint - Field	d Gypsum, Paint - Field	Gypsum, Paint - Field	Gypsum, Paint	n/a	n/a	Paint Trim, Door Finish A	n/a	
L14 JANITOR	Non-slip sheet vinyl	100mm Rubber base	Gypsum, Paint - Field	Gypsum, Paint - Field	d Gypsum, Paint - Field	Gypsum, Paint - Field	Gypsum, Paint	n/a	n/a	Paint Trim, Door Finish A	n/a	
115 OFFICE	Carpet Tile	100mm Rubber base	Gypsum, Paint - Field	Gypsum, Paint - Field	d Gypsum, Paint - Accent	Gypsum, Paint - Field	Ceiling Tile	n/a	Ext: Aluminum same colour in & out, gypsum returns with ply sill painted to match walls Int: wood frames painted to match trim		n/a	
201 CORRIDOR	Carpet Tile	100mm Rubber base	Gypsum, Paint - Field	Gypsum, Paint - Field	d Gypsum, Paint - Field	Gypsum, Paint - Field	Gypsum, Paint	n/a	Wood frames painted to match trim	Paint Trim, Door Finish A	n/a	
202 OFFICE	Carpet Tile		Gypsum, Paint - Accent	Gypsum, Paint - Field	d Gypsum, Paint - Field	Gypsum, Paint - Field	Ceiling Tile	n/a	Ext: Aluminum same colour in & out, gypsum returns with ply sill painted to match walls Int: wood frames painted to match trim	· ·	n/a	
BREAKOUT ROOM	Carpet Tile	100mm Rubber base	Gypsum, Paint - Field	Gypsum, Paint - Field	d Gypsum, Paint - Field	Gypsum, Paint - Field	Ceiling Tile	n/a	Wood frames painted to match trim	Paint Trim, Door Finish A	n/a	
204 OFFICE	Carpet Tile	100mm Rubber base	Gypsum, Paint - Field	Gypsum, Paint - Field	d Gypsum, Paint - Field	Gypsum, Paint - Field	Ceiling Tile	n/a	Ext: Aluminum same colour in & out, gypsum returns with ply sill painted to match walls Int: wood frames painted to match trim	·	n/a	
205 WASHROOM	Non-slip sheet vinyl	100mm Rubber base	Gypsum, Paint - Field	Gypsum, Paint - Field	d Gypsum, Paint - Field	Gypsum, Paint - Field	Ceiling Tile	n/a	n/a	Paint Trim, Door Finish A	n/a	
206 OFFICE	Carpet Tile	100mm Rubber base	Gypsum, Paint - Field	Gypsum, Paint - Field	d Gypsum, Paint - Field	Gypsum, Paint - Field	Ceiling Tile	n/a	Ext: Aluminum same colour in & out, gypsum returns with ply sill painted to match walls Int: wood frames painted to match trim		n/a	
207 OFFICE	Carpet Tile	100mm Rubber base	Gypsum, Paint - Field	Gypsum, Paint - Field	d Gypsum, Paint - Field	Gypsum, Paint - Field	Ceiling Tile	n/a	Wood frames painted to match trim	Paint Trim, Door Finish A	n/a	
08 OFFICE	Carpet Tile	100mm Rubber base	Gypsum, Paint - Field	Gypsum, Paint - Field	d Gypsum, Paint - Field	Gypsum, Paint - Field	Ceiling Tile	n/a	Ext: Aluminum same colour in & out, gypsum returns with ply sill painted to match walls Int: wood frames painted to match trim		n/a	
09 BREAKOUT / COMMON /	Carpet Tile	100mm Rubber base	Gypsum, Paint - Field		Gypsum, Paint - Field	Gypsum, Paint - Field	Ceiling Tile	n/a	n/a	n/a	n/a	
PRINTING	Plywood	n/a		Accent Primed gypsum	Primed gypsum	Primed gypsum	Primed gypsum	n/a	Aluminum same colour in & out, gypsum returns with ply sill painted to match walls	Paint Trim, Door Finish A	n/a	

** Exterior Roof IMP to be Skyline profile in Zinc Gray



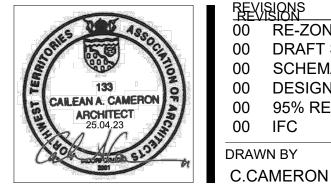
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CONSULTANTS

ARCAN PERMIT No. 016 Issued pursuant to Section 29 of the Architects Act of the Northwest Territories



REVISIONS DESCRIPTION

00 RE-ZONING

00 DRAFT SCHEMATIC

00 SCHEMATIC DESIGN

00 DESIGN DEV. REV.

00 95% REVIEW

00 IFC BY DD/MMM/YYYY

C.A.C 2022-03-02

C.A.C 2022-04-01

C.A.C 2022-04-22

C.A.C 2022-12-20

C.A.C 2023-03-03

C.A.C 2023-04-25 CHECKED BY C. CAMERON, NWTAA, MRAIC

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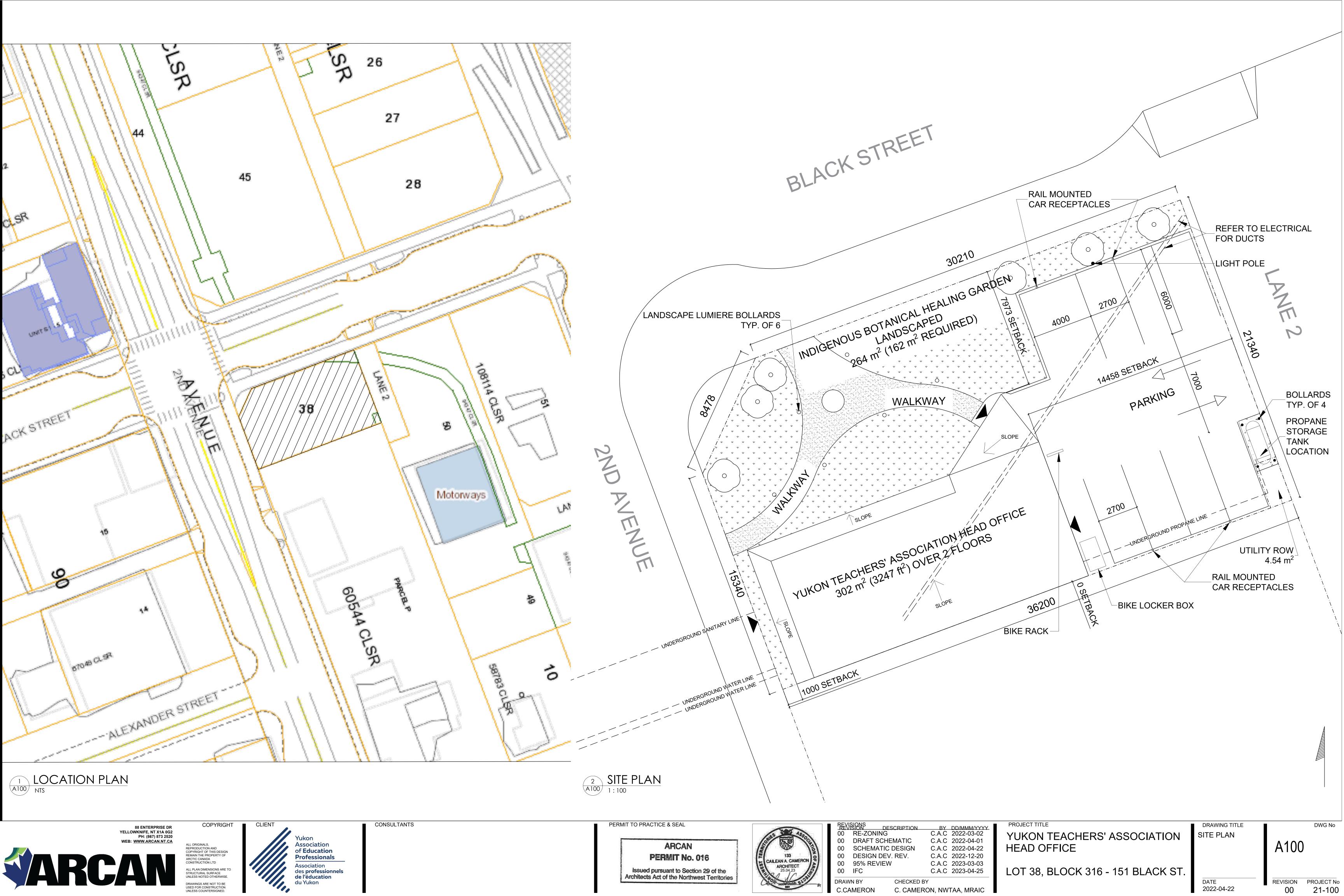
LOT 38, BLOCK 316 - 151 BLACK ST.

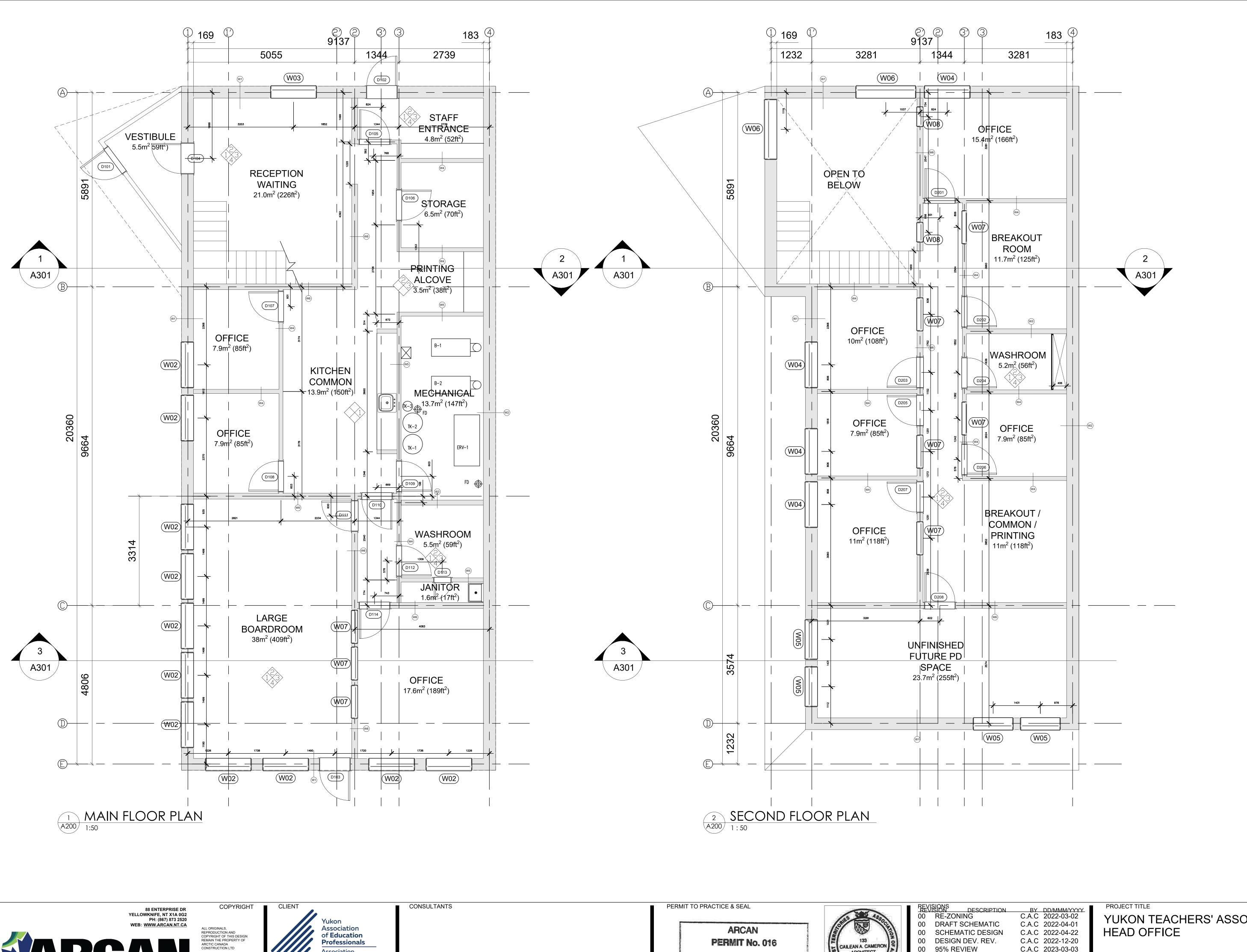
DRAWING TITLE FINISH SCHEDULE

REVISION PROJECT No 21-100

DWG No

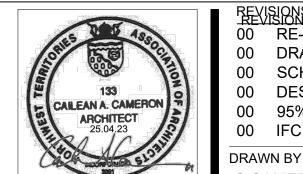
DATE 2022-04-22







Association des **professionnels de l'éducation** du Yukon



Issued pursuant to Section 29 of the Architects Act of the Northwest Territories

BY DD/MMM/YYYY
C.A.C 2022-03-02
C.A.C 2022-04-01
C.A.C 2022-04-22
C.A.C 2022-12-20
C.A.C 2023-03-03 00 95% REVIEW C.A.C 2023-04-25

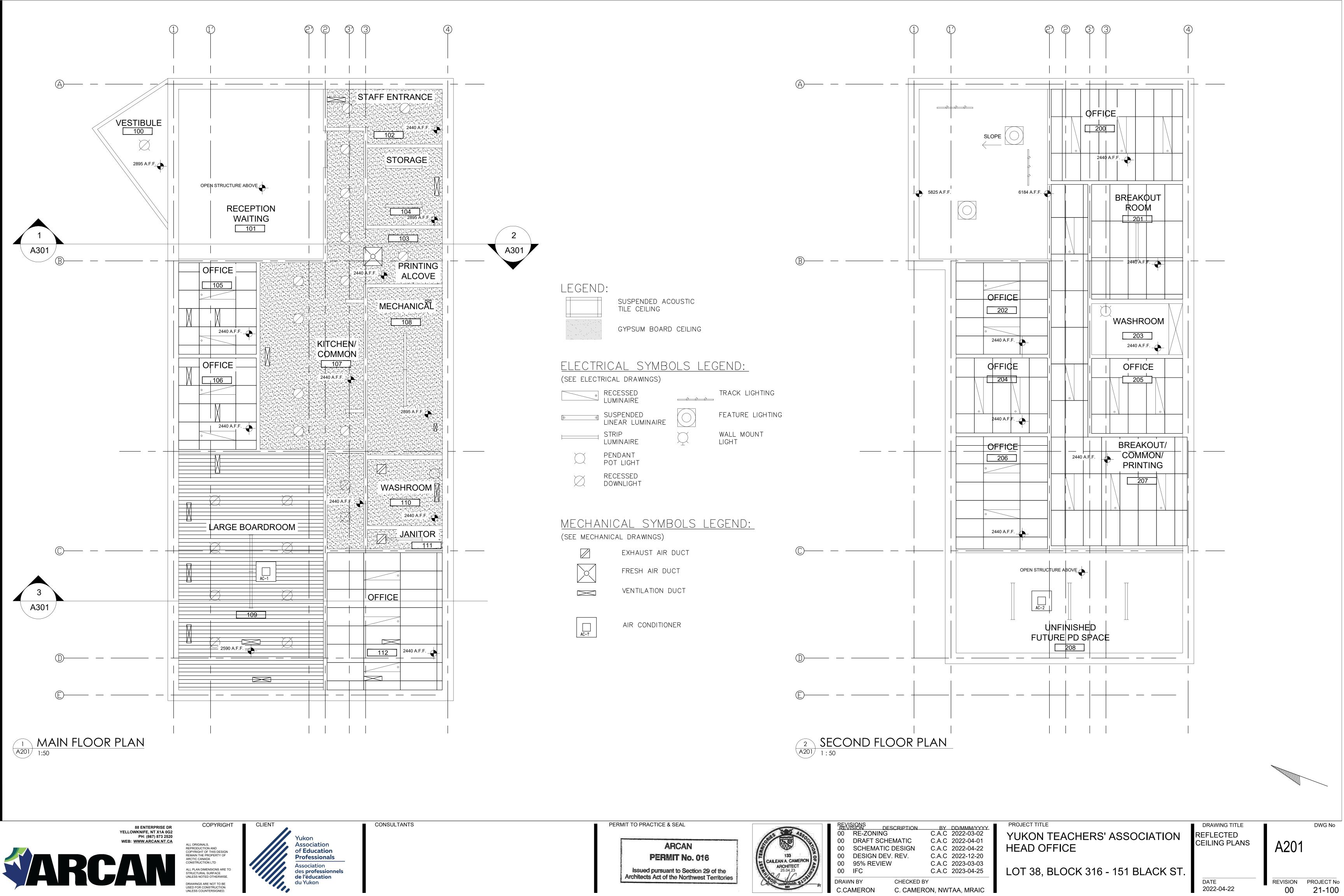
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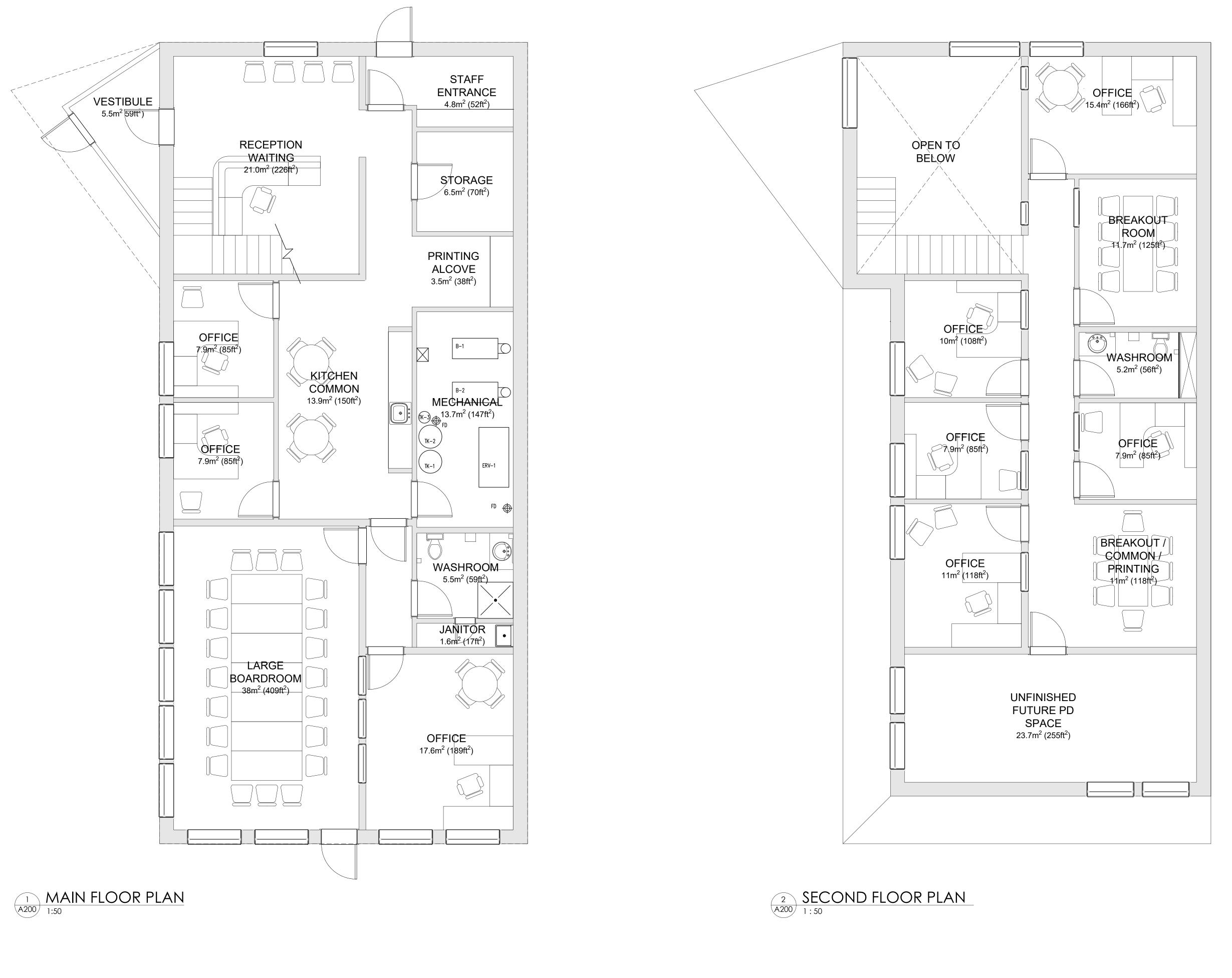
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YUKON TEACHERS' ASSOCIATION LOT 38, BLOCK 316 - 151 BLACK ST.

DRAWING TITLE FLOOR PLANS DATE 2022-04-22

A200 REVISION PROJECT No 21-100





NOTE
FURNITURE NOT INCLUDED IN CONTRACT

■ PROJECT TITLE

YUKON TEACHERS' ASSOCIATION HEAD OFFICE

LOT 38, BLOCK 316 - 151 BLACK ST.

DRAWING TITLE DWG No FURNITURE PLANS A202

DATE REVISION PROJECT No 2022-04-22 00 21-100

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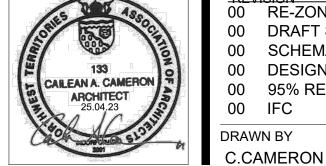
Yukon
Association
of Education
Professionals

Association
des professionnels
de l'éducation
du Yukon

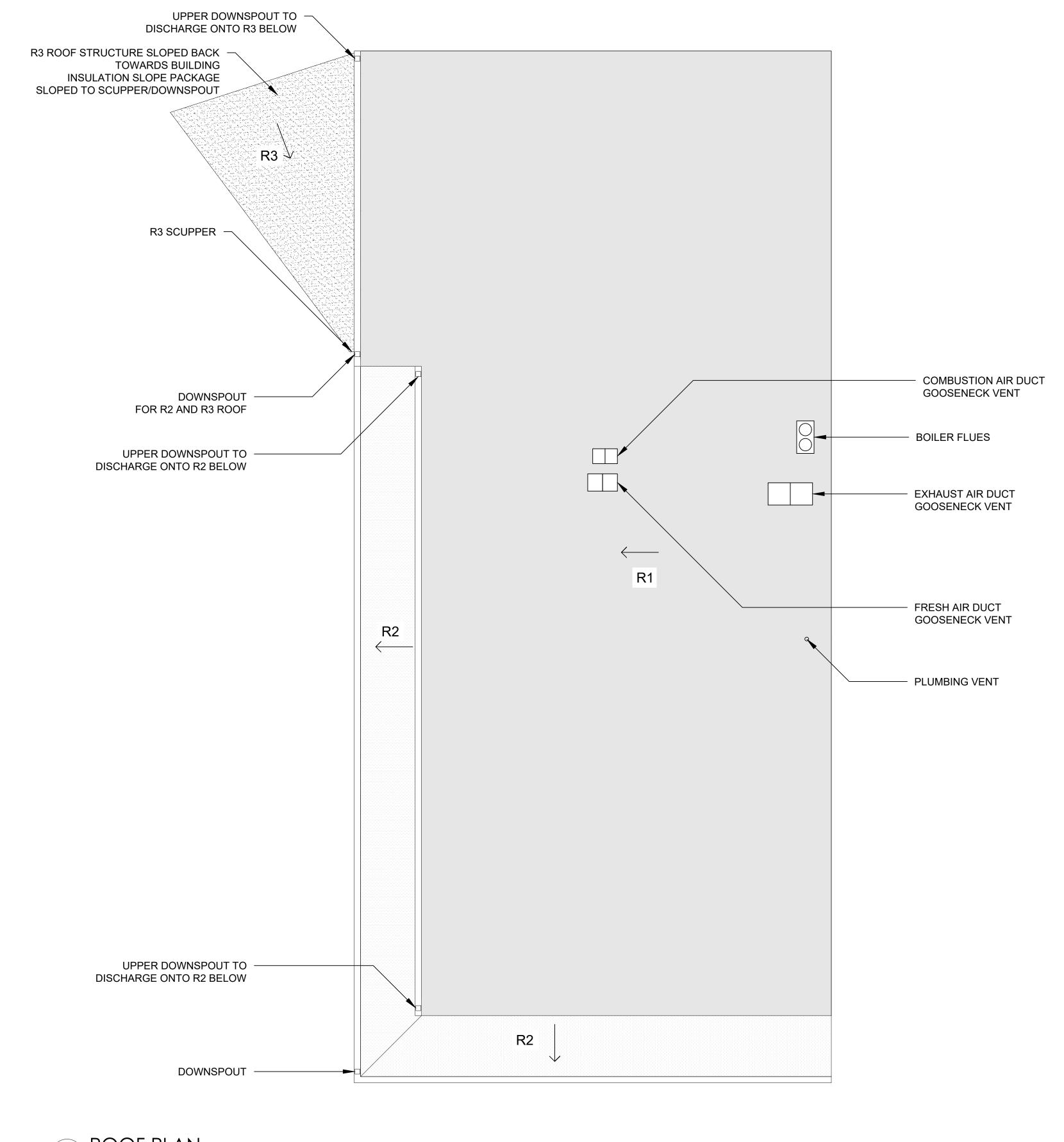
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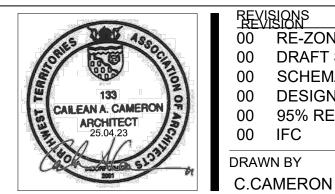


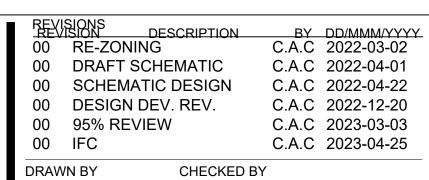


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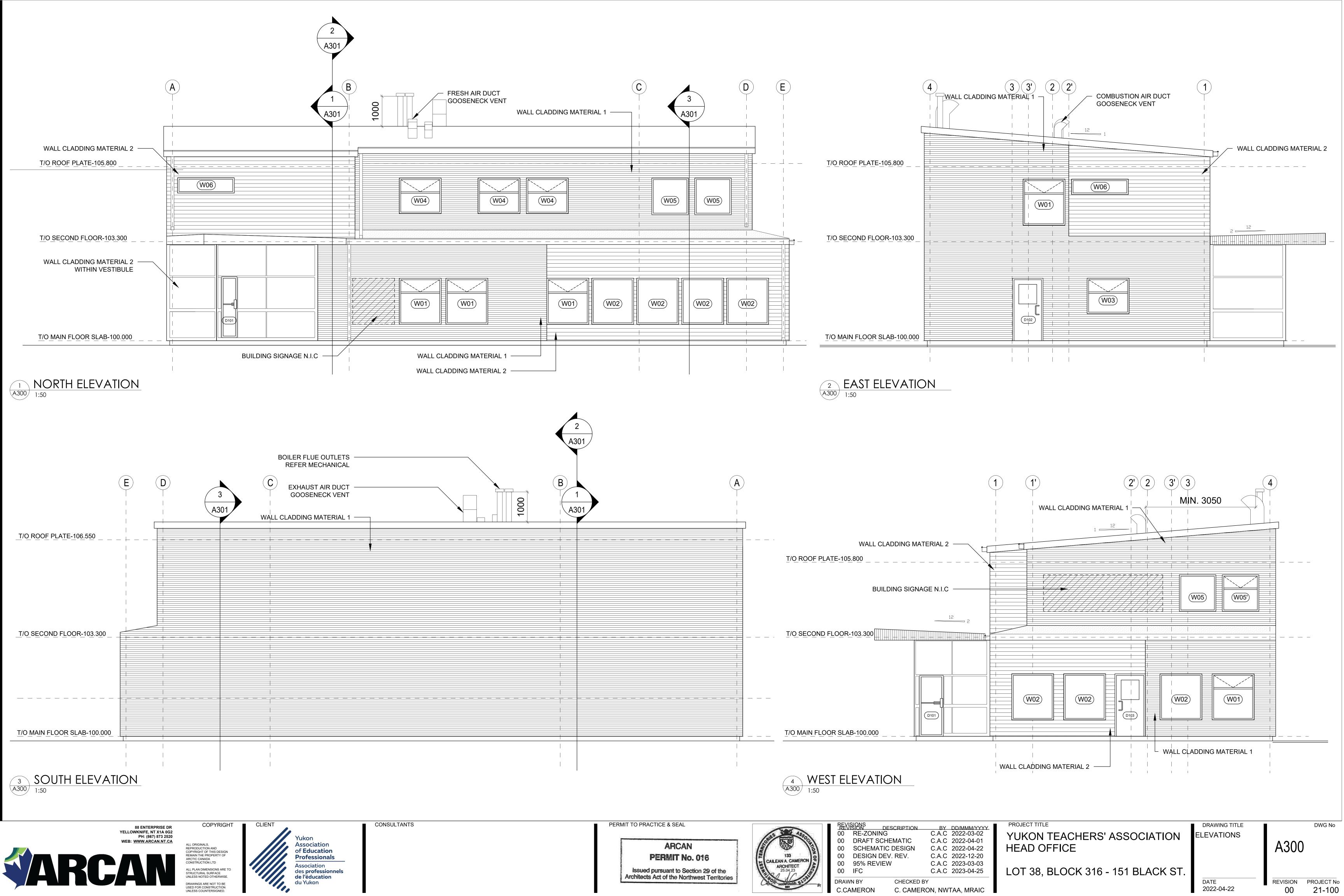


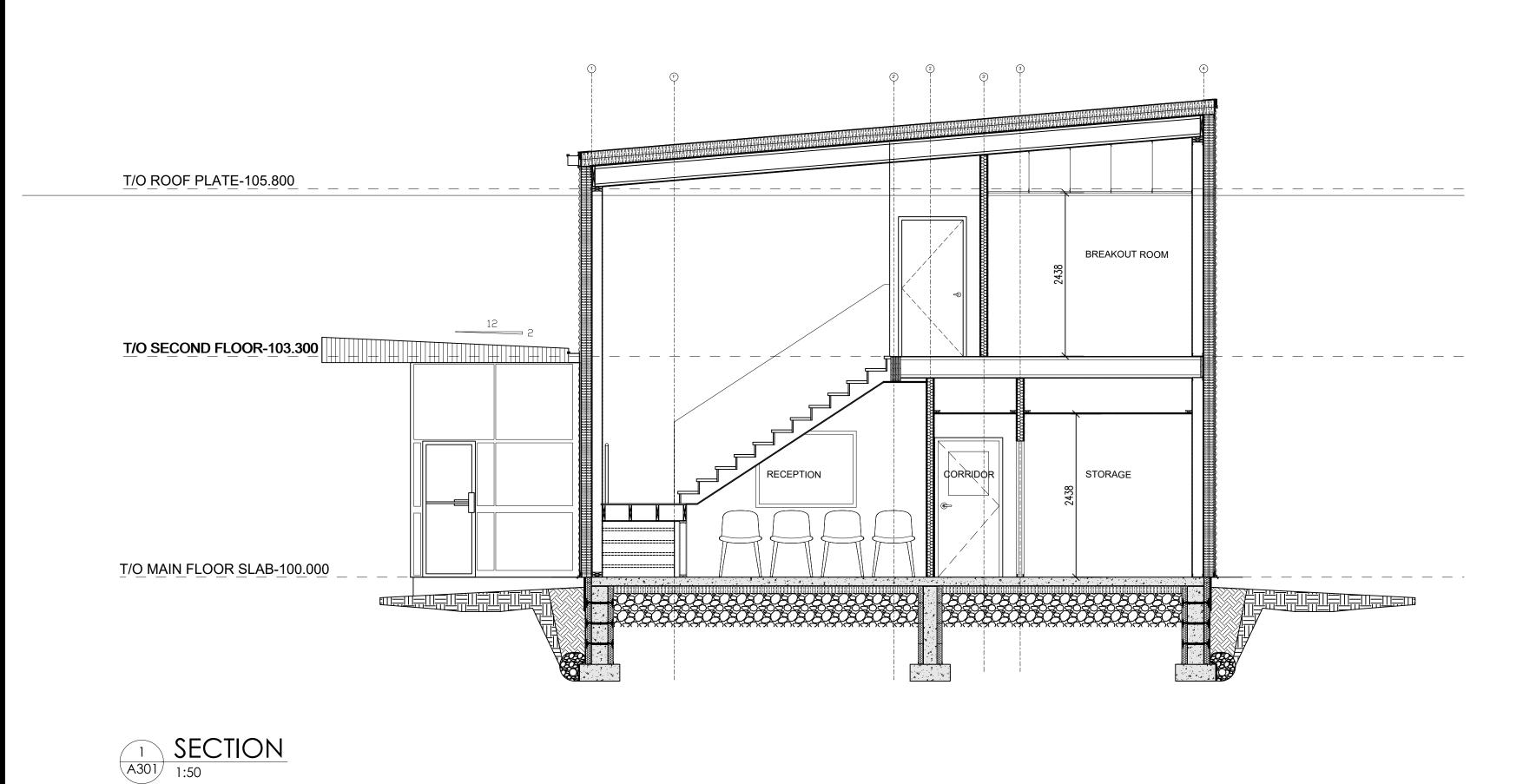
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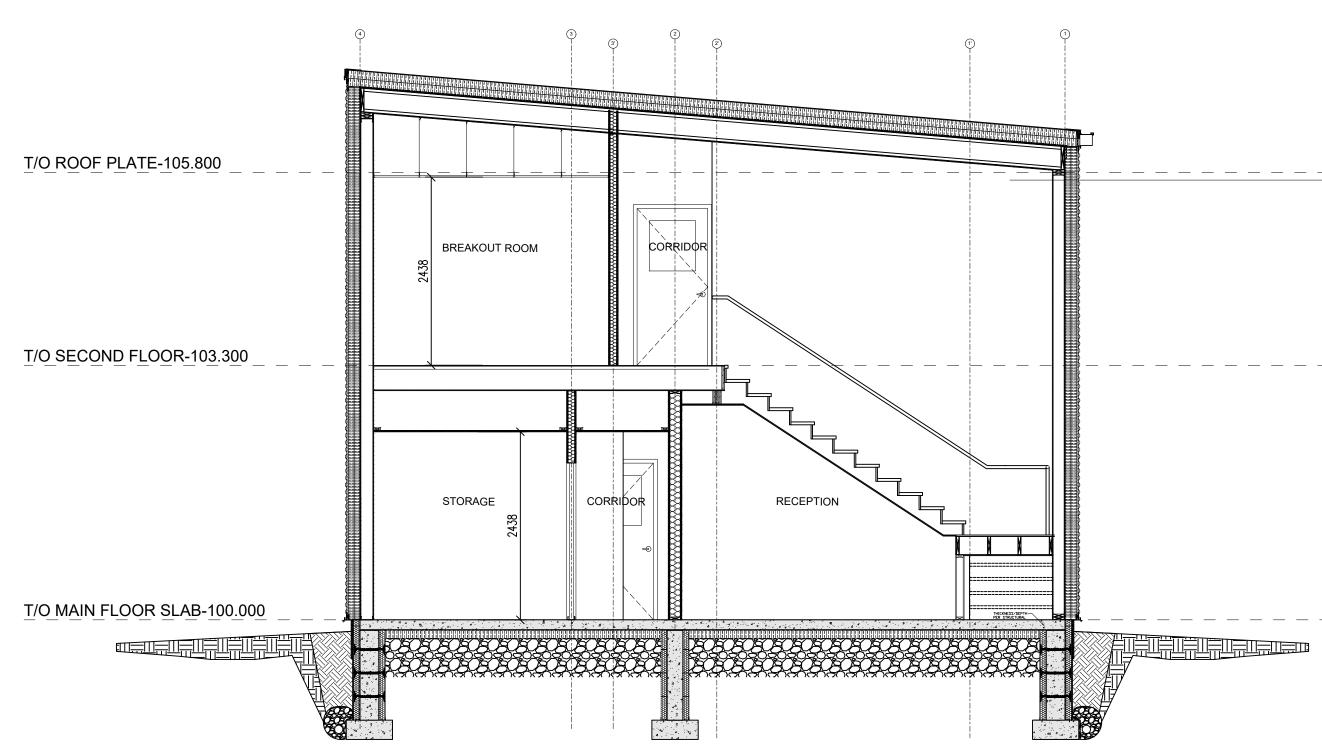
YUKON TEACHERS' ASSOCIATION **HEAD OFFICE** LOT 38, BLOCK 316 - 151 BLACK ST.

DRAWING TITLE DWG No A203 DATE 2022-04-22 REVISION PROJECT No

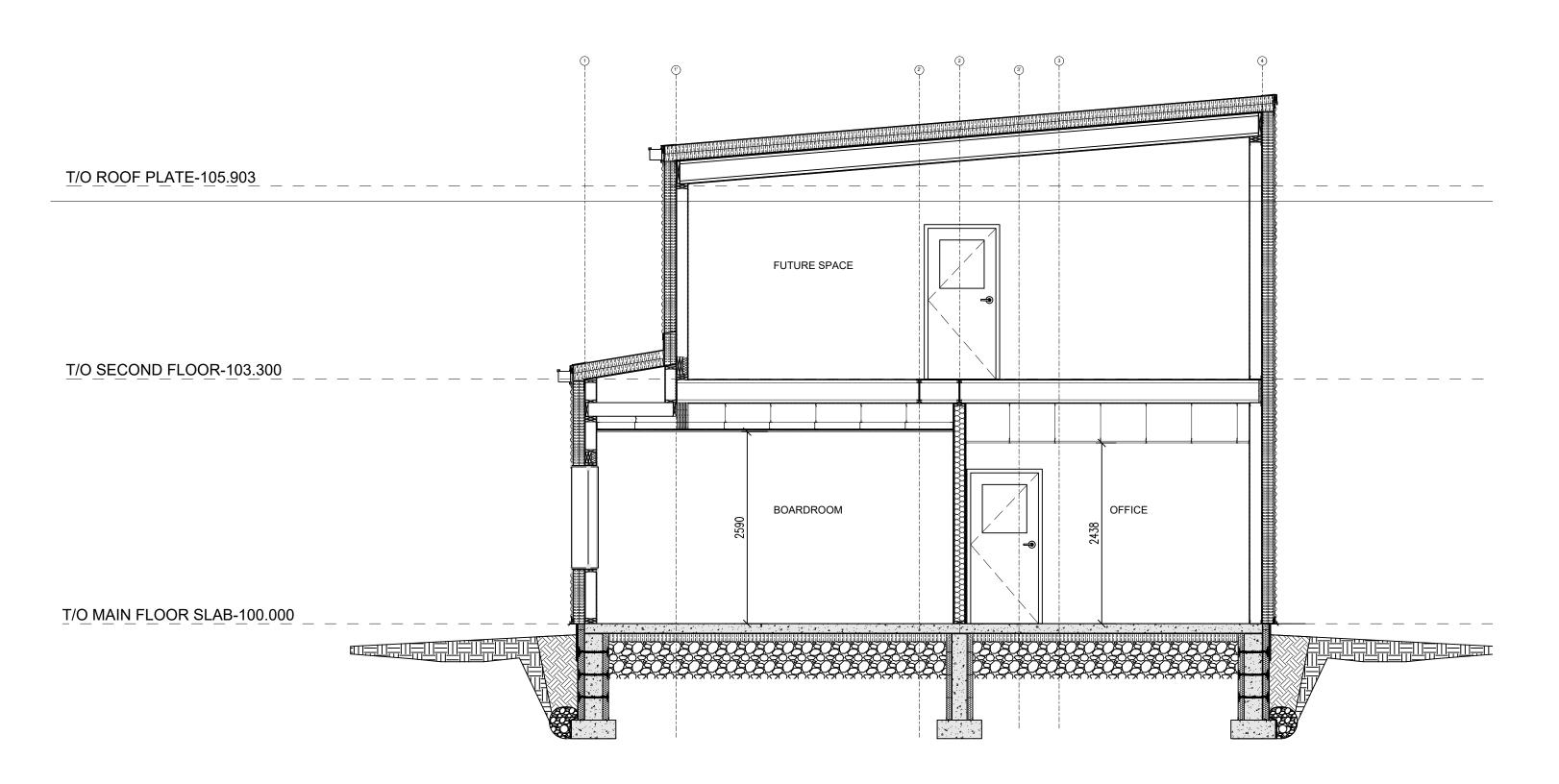
21-100







2 SECTION A301 1:50

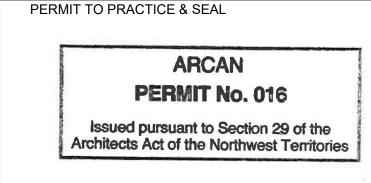


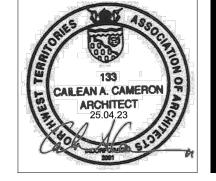
3 SECTION A301 1:50











	SIONS ISION DESCRIPTION	BY	DD/MMM/YYYY
00	RE-ZONING	C.A.C	2022-03-02
00	DRAFT SCHEMATIC	C.A.C	2022-04-01
00	SCHEMATIC DESIGN	C.A.C	2022-04-22
00	DESIGN DEV. REV.	C.A.C	2022-12-20
00	95% REVIEW	C.A.C	2023-03-03
00	IFC	C.A.C	2023-04-25
-			

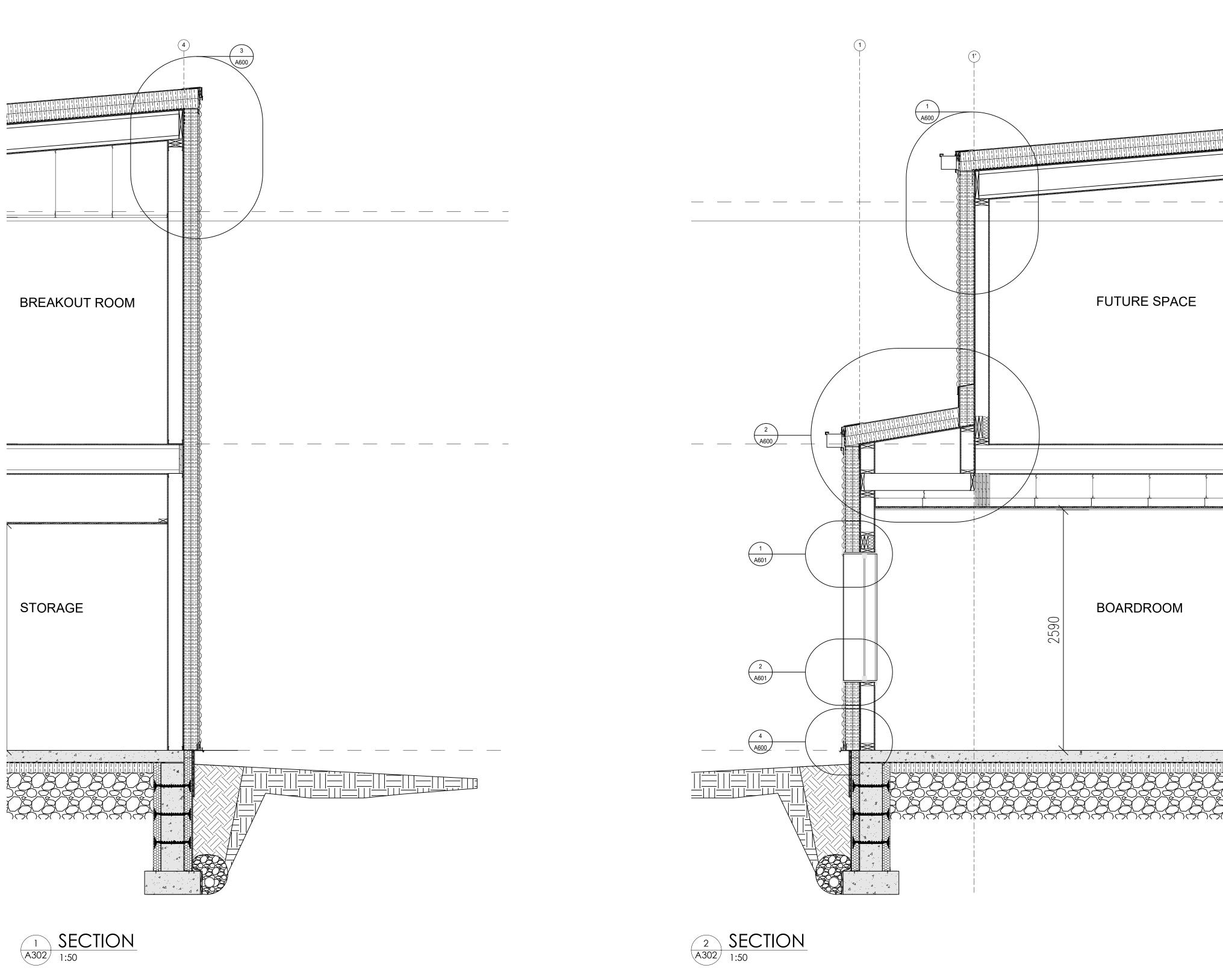
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YUKON TEACHERS' ASSOCIATION **HEAD OFFICE** LOT 38, BLOCK 316 - 151 BLACK ST.

DRAWING TITLE DWG No A301 REVISION PROJECT No 21-100

DATE 2022-04-22



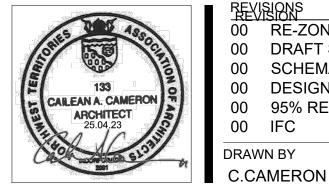


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REVISIONS
REVISION
DESCRIPTION
00 RE-ZONING
00 DRAFT SCHEMATIC
00 SCHEMATIC DESIGN
00 DESIGN DEV. REV.
00 95% REVIEW
00 IFC BY DD/MMM/YYYY

C.A.C 2022-03-02

C.A.C 2022-04-01

C.A.C 2022-04-22

C.A.C 2022-12-20

C.A.C 2023-03-03

C.A.C 2023-04-25

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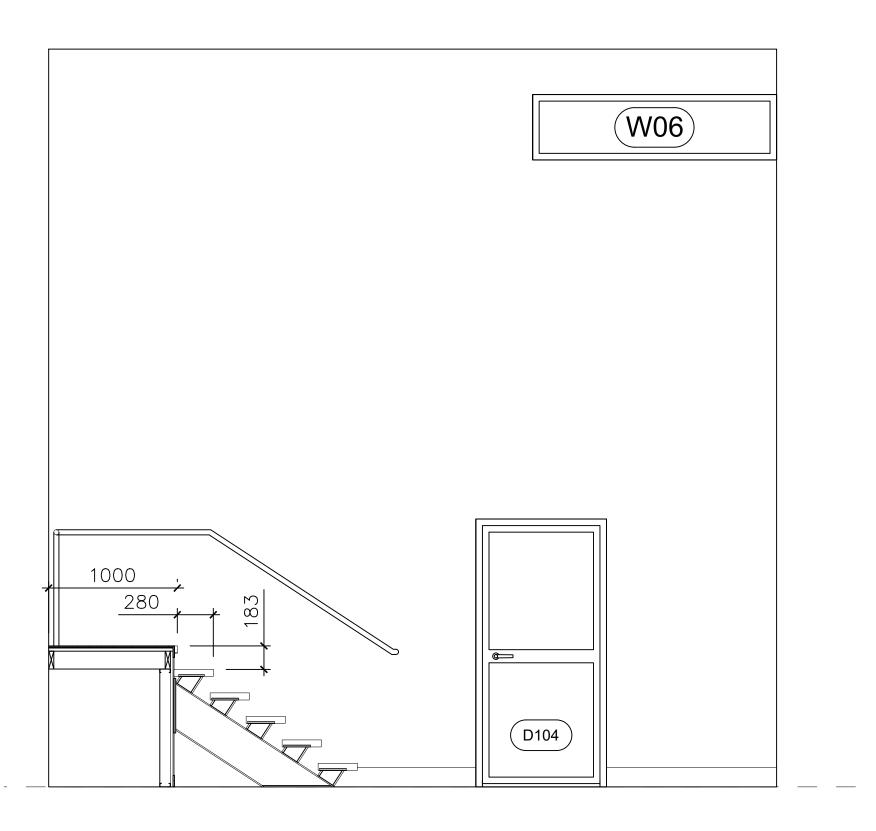
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YUKON TEACHERS' ASSOCIATION **HEAD OFFICE** LOT 38, BLOCK 316 - 151 BLACK ST.

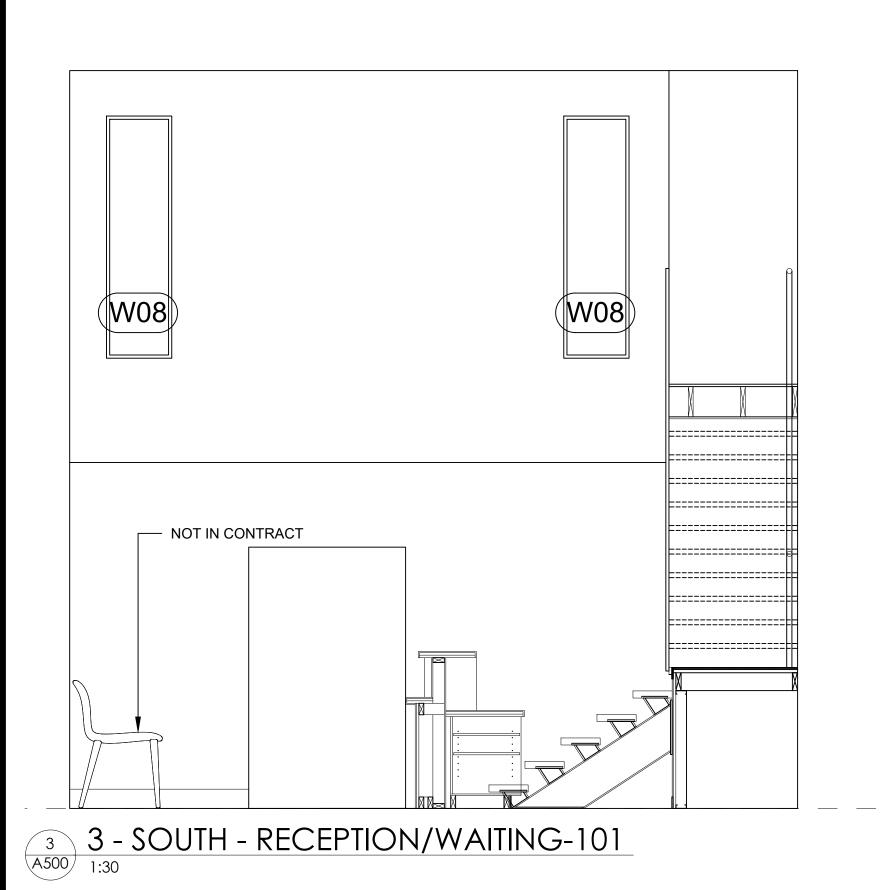
DRAWING TITLE WALL SECTIONS

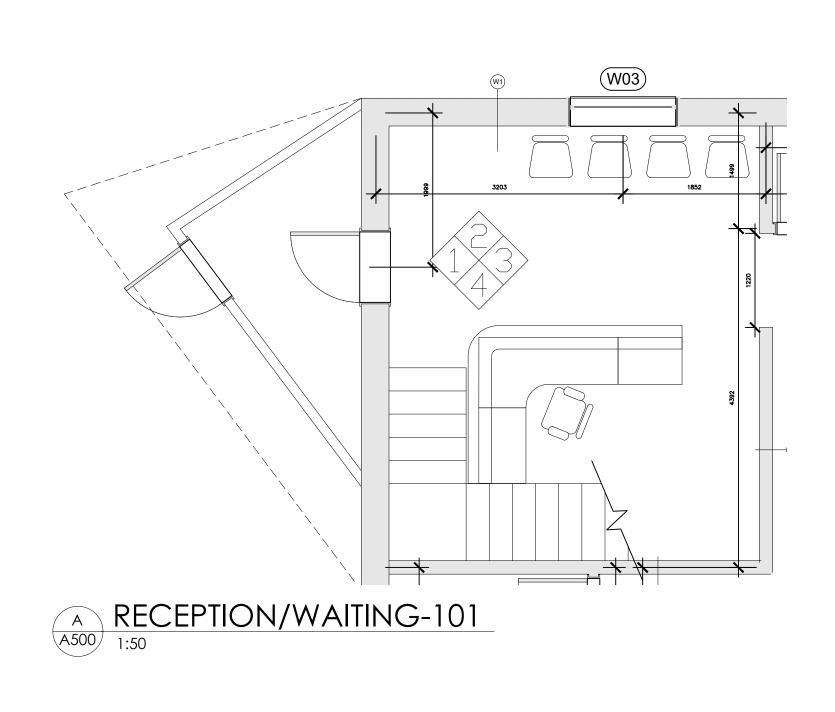
A302

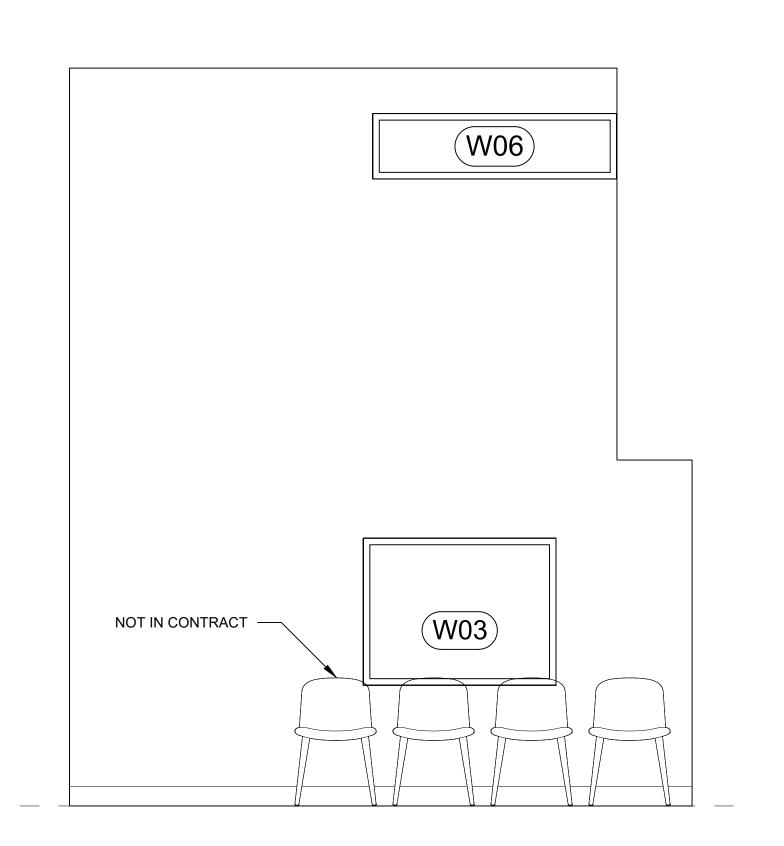
DATE 2022-04-22 REVISION PROJECT No 21-100



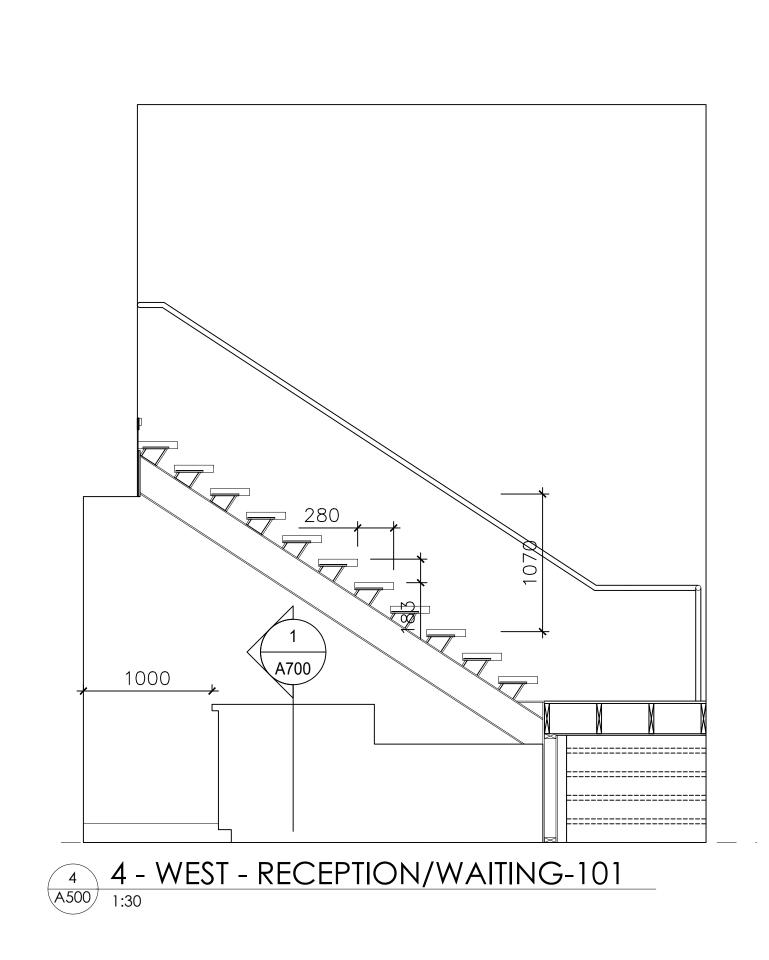
1 1- NORTH - RECEPTION/WAITING-101



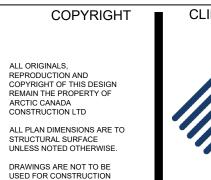




2 - EAST - RECEPTION/WAITING-101









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HEAD OFFICE

LOT 38, BLOCK 316 - 151 BLACK ST.

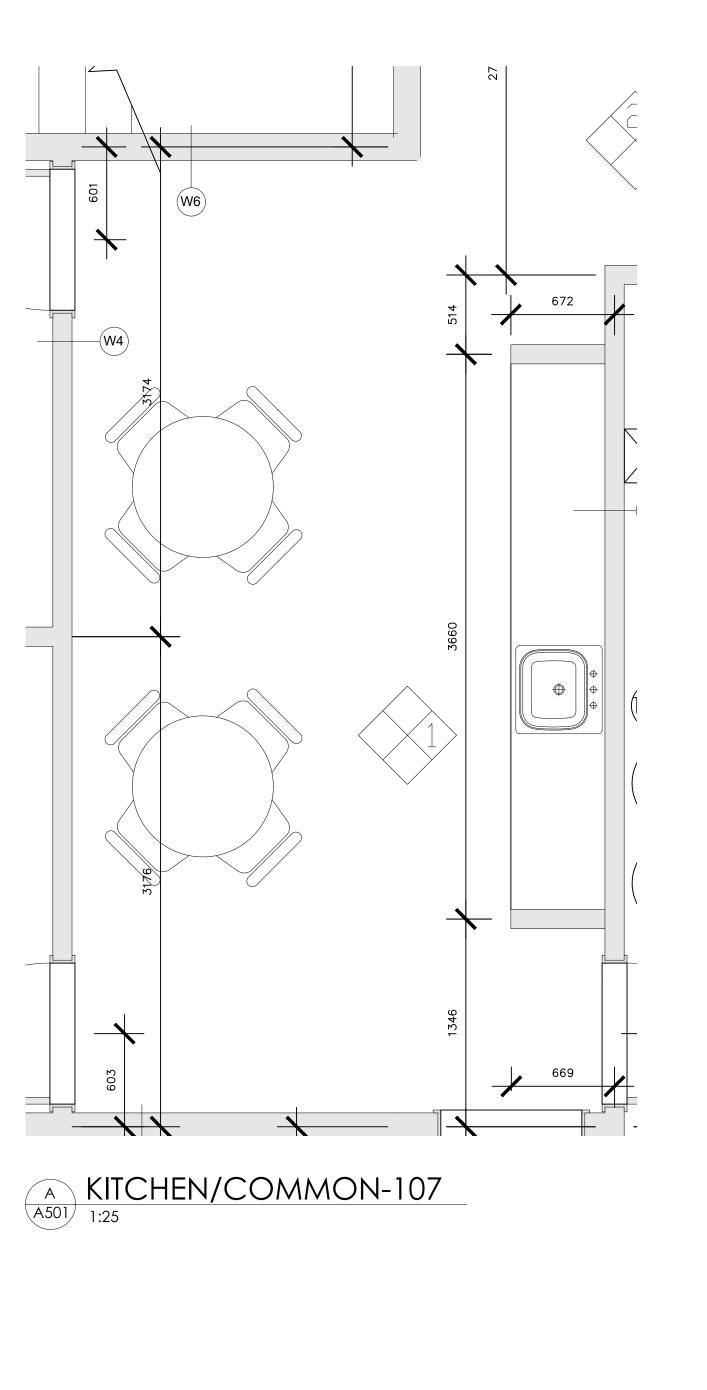
DRAWING TITLE
INTERIOR
ELEVATIONS

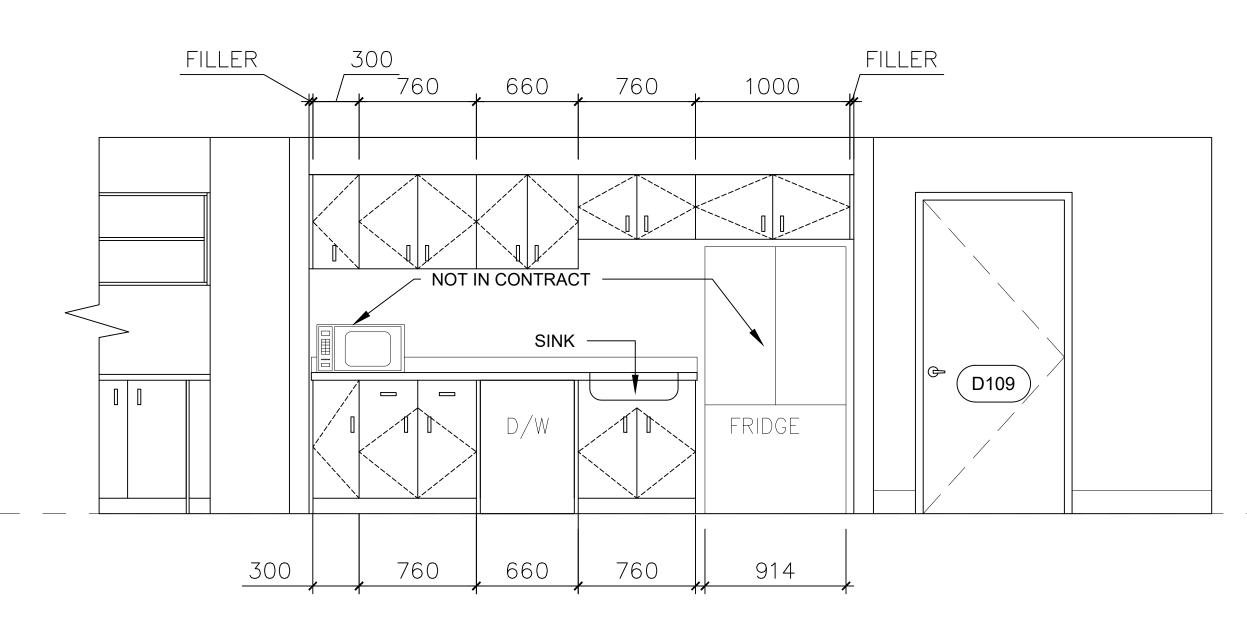
A500

DATE
2022-04-22

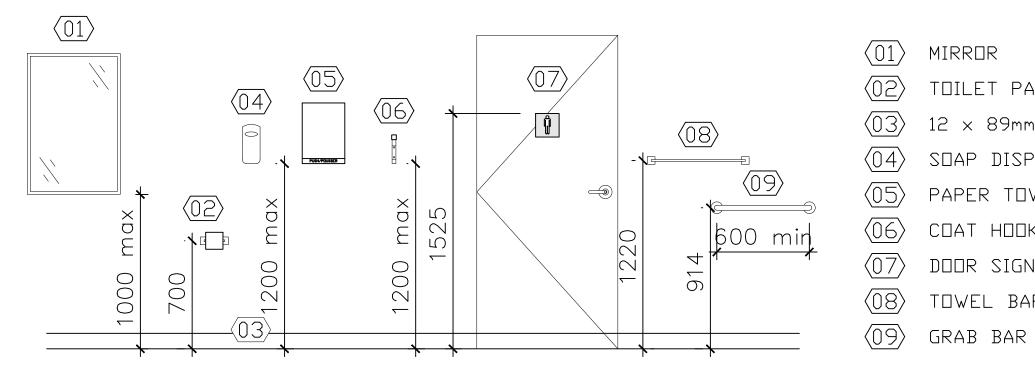
DRAWING TITLE
DWG No

REVISION
PROJECT No
21-100



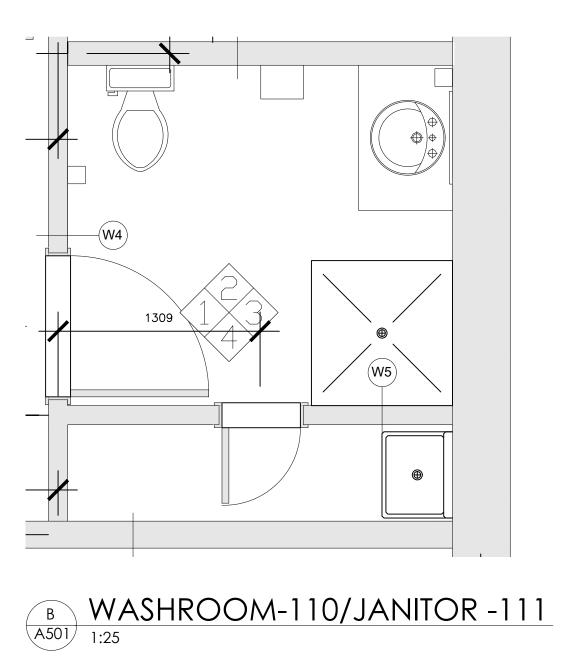


A1 1 - KITCHEN/COMMON-107
A501 1:25

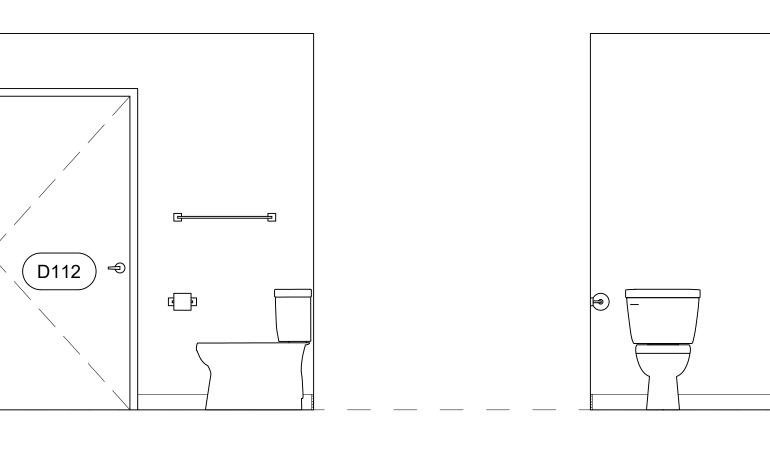


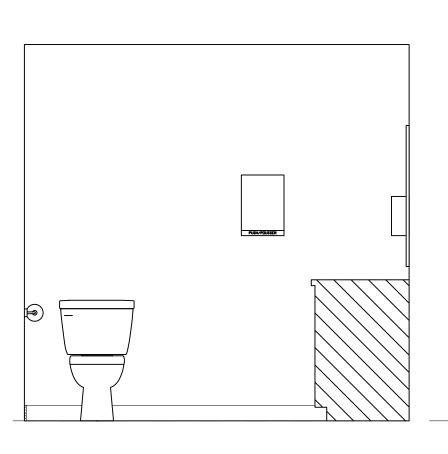
- TOILET PAPER DISPENSER
- 12 x 89mm PAINTED F.J. PINE BASEBOARD
- (04) SOAP DISPENSER

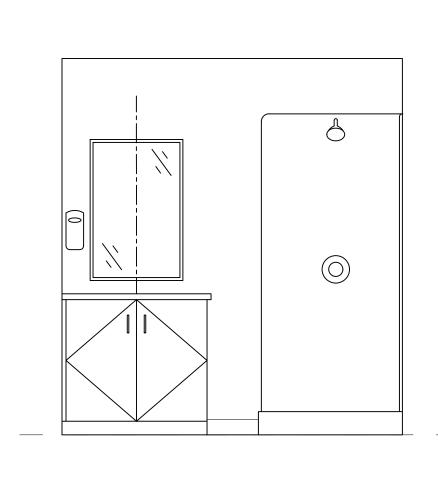
- TOWEL BAR

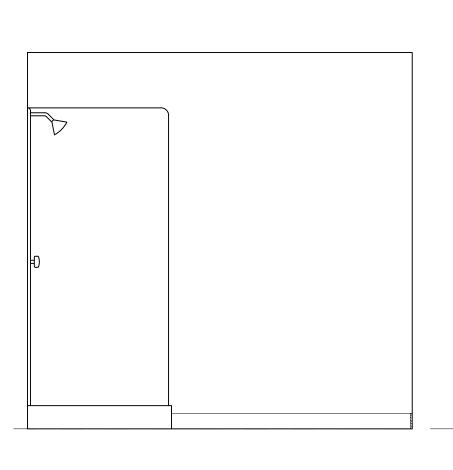












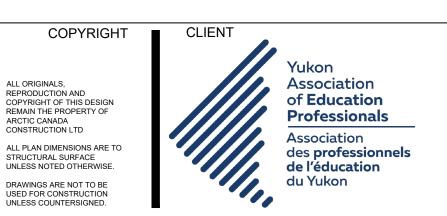
1-NORTH B1 WASHROOM-110/JANITOR -111 A501 1:25

2-EAST B2 WASHROOM-110/JANITOR -111 A501 1:25

3-SOUTH B3 WASHROOM-110/JANITOR -111 A501 1:25

4-WEST B4 WASHROOM-110/JANITOR -111 A501 1:25





PERMIT TO PRACTICE & SEAL **ARCAN** PERMIT No. 016 Issued pursuant to Section 29 of the Architects Act of the Northwest Territories

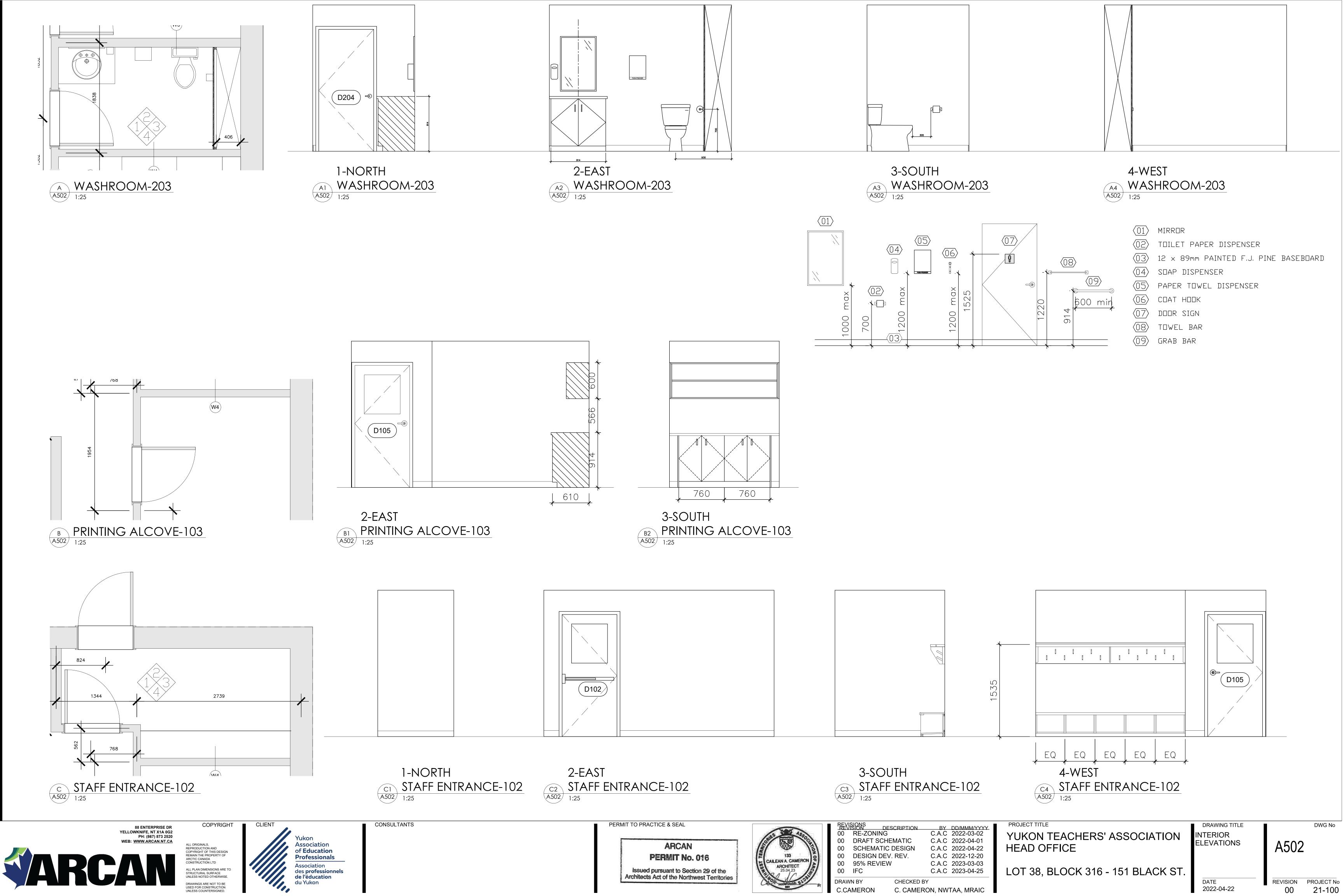


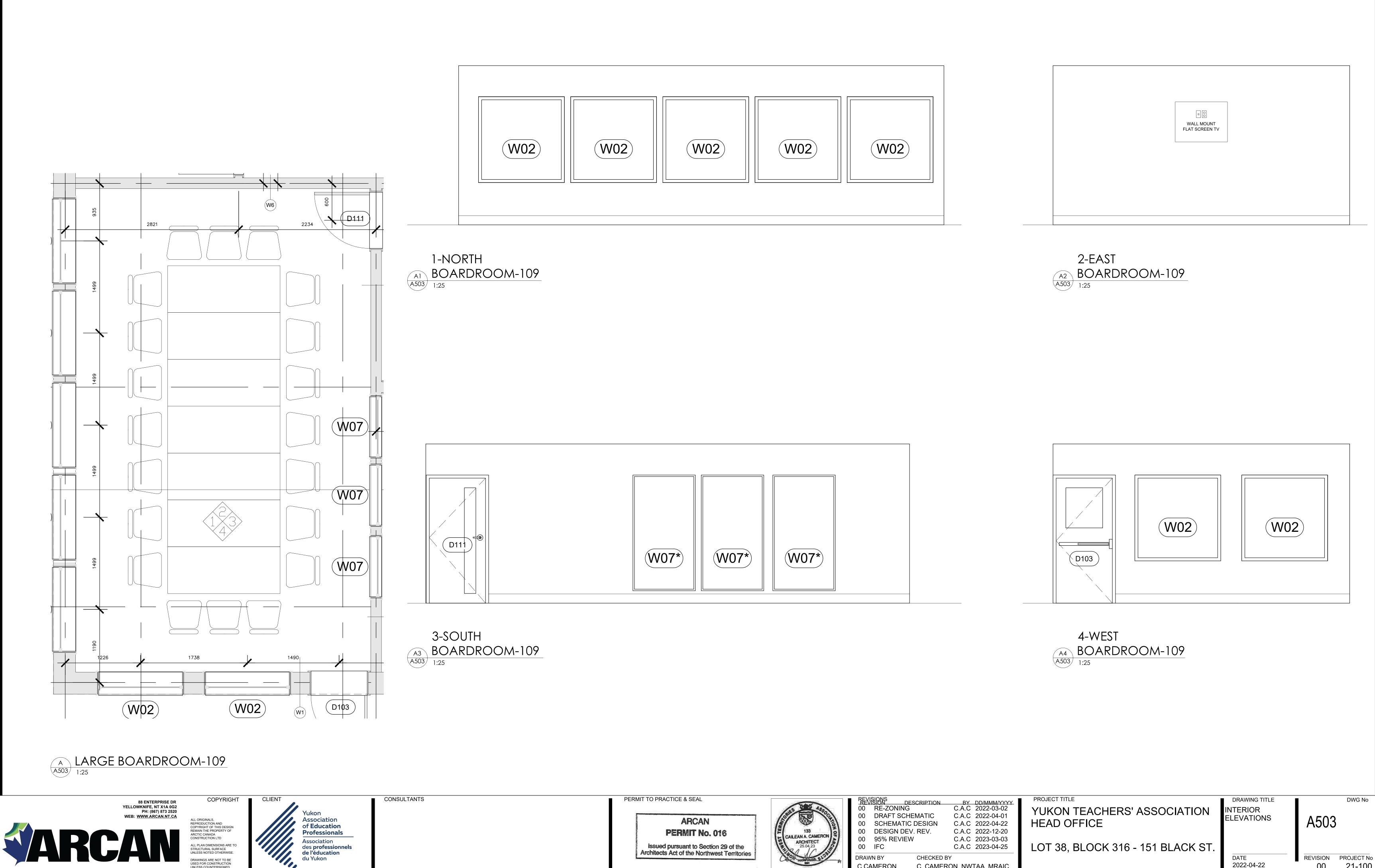
BY DD/MMM/YYYY
C.A.C 2022-03-02
C.A.C 2022-04-01
C.A.C 2022-04-22
C.A.C 2022-12-20
C.A.C 2023-03-03 00 DESIGN DEV. REV. 00 95% REVIEW C.A.C 2023-04-25 CHECKED BY

YUKON TEACHERS' ASSOCIATION **HEAD OFFICE** LOT 38, BLOCK 316 - 151 BLACK ST.

DRAWING TITLE INTERIOR ELEVATIONS A501

DATE 2022-04-22 REVISION PROJECT No 21-100





Issued pursuant to Section 29 of the Architects Act of the Northwest Territories

Association

des **professionnels de l'éducation** du Yukon

ALL PLAN DIMENSIONS ARE TO STRUCTURAL SURFACE UNLESS NOTED OTHERWISE.

DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNLESS COUNTERSIGNED.

DATE 2022-04-22 REVISION PROJECT No 21-100

LOT 38, BLOCK 316 - 151 BLACK ST.

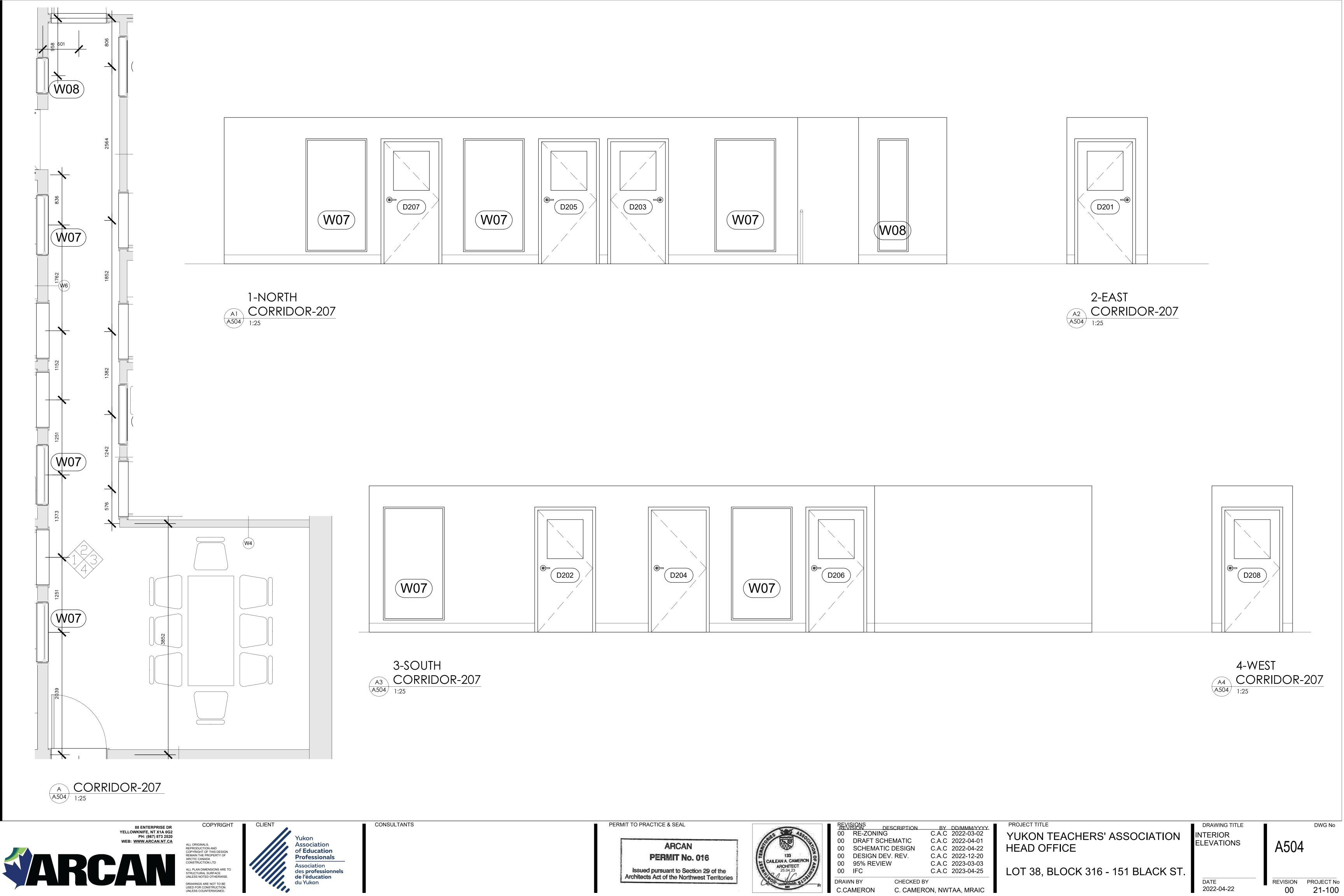
C.A.C 2023-04-25

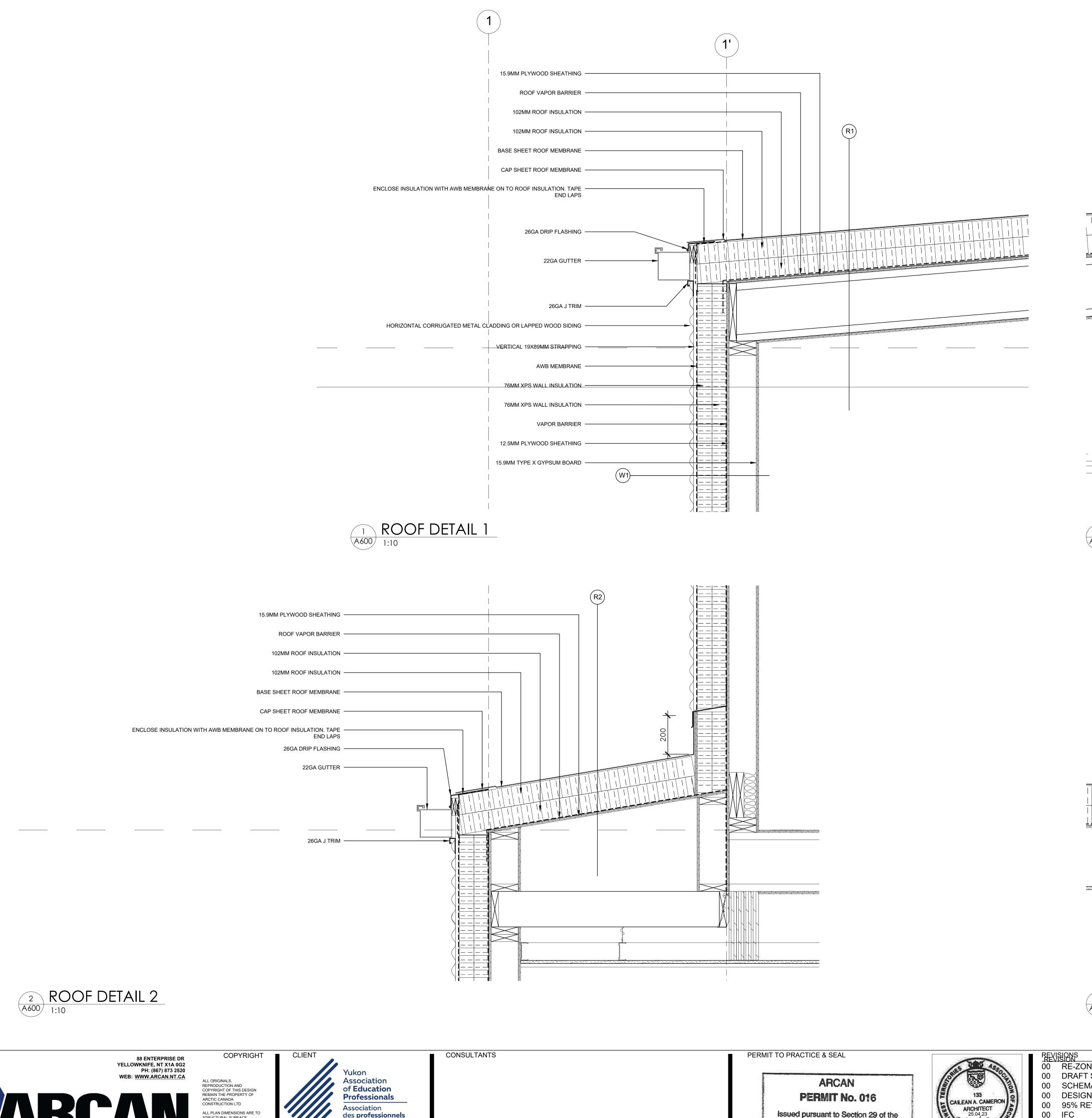
C. CAMERON, NWTAA, MRAIC

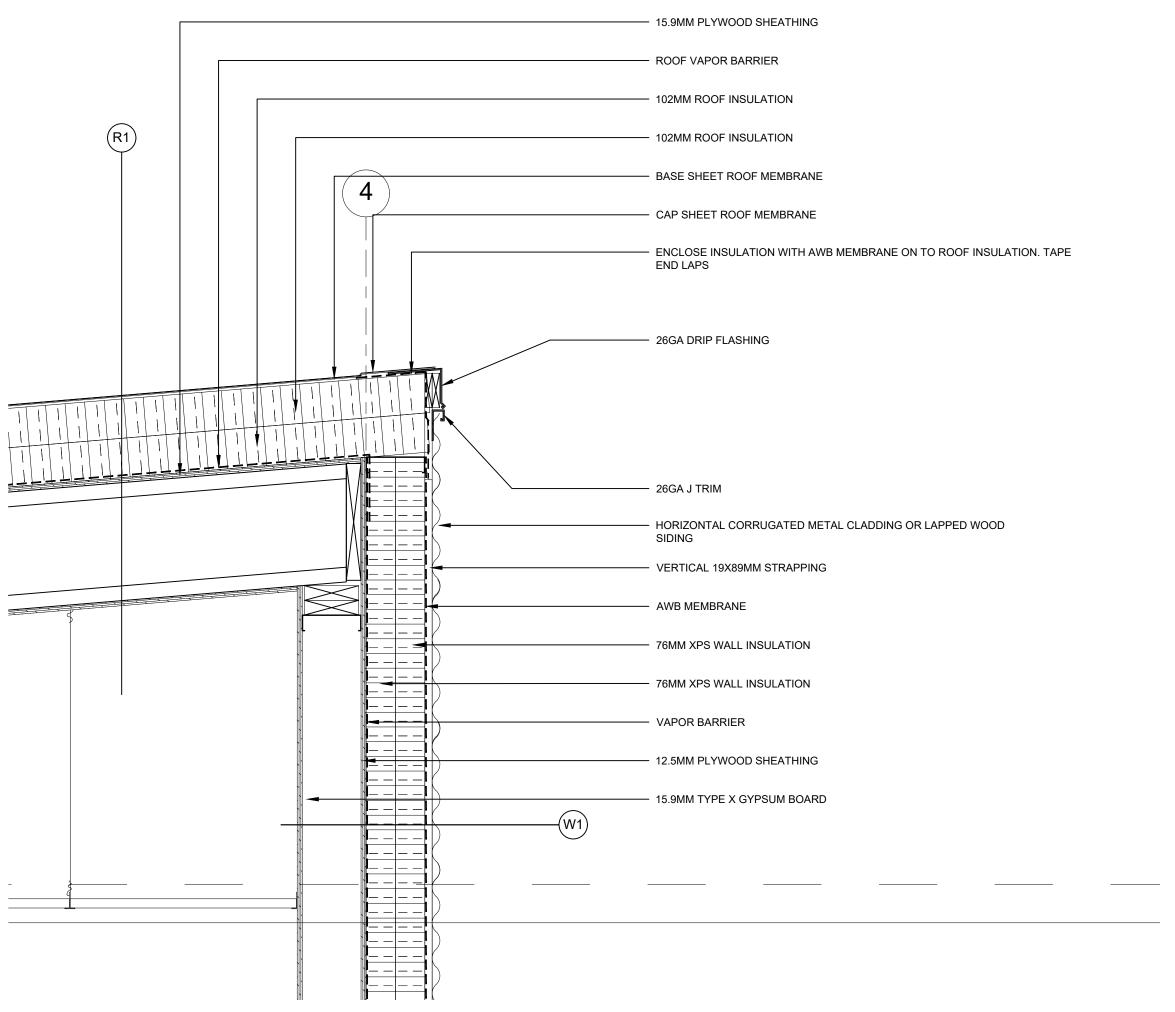
CHECKED BY

DRAWN BY

C.CAMERON

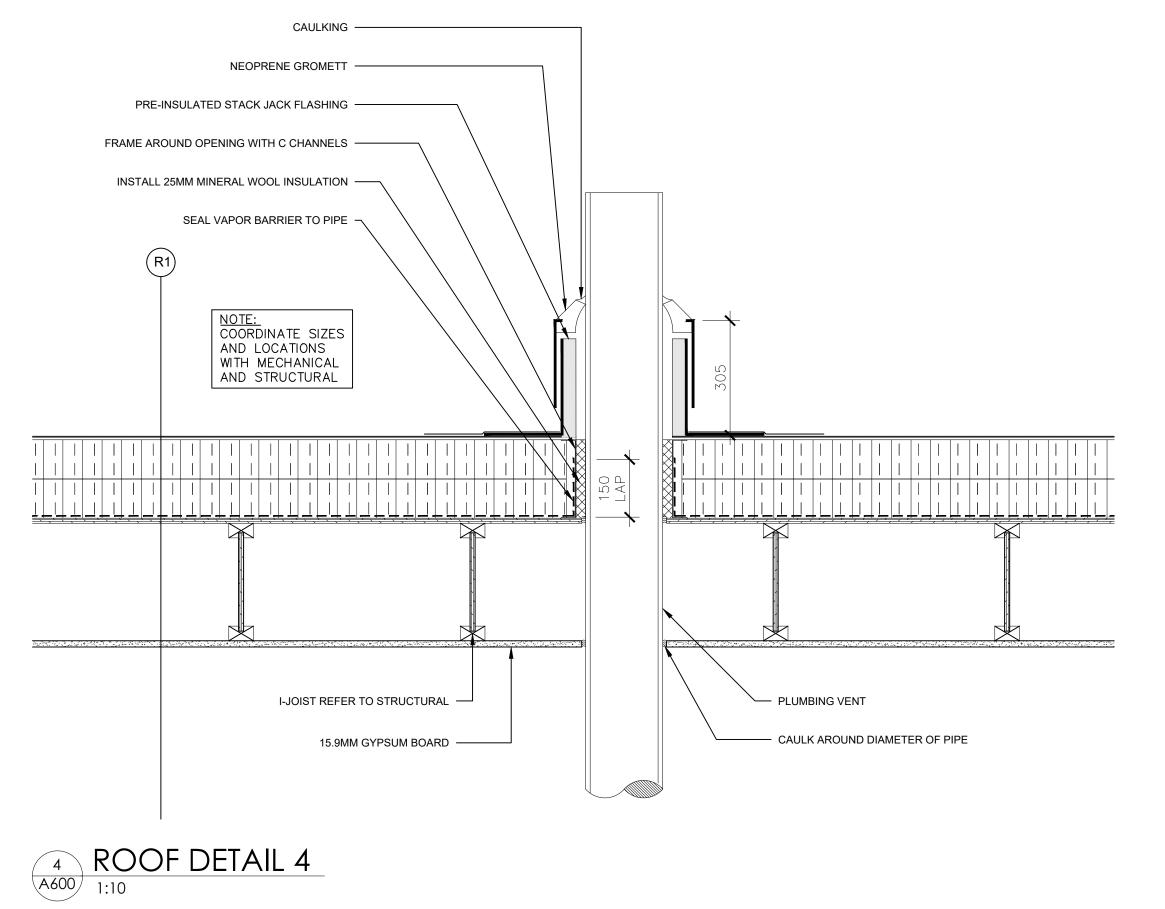






ROOF DETAIL 3

A600 1:10









Issued pursuant to Section 29 of the Architects Act of the Northwest Territories

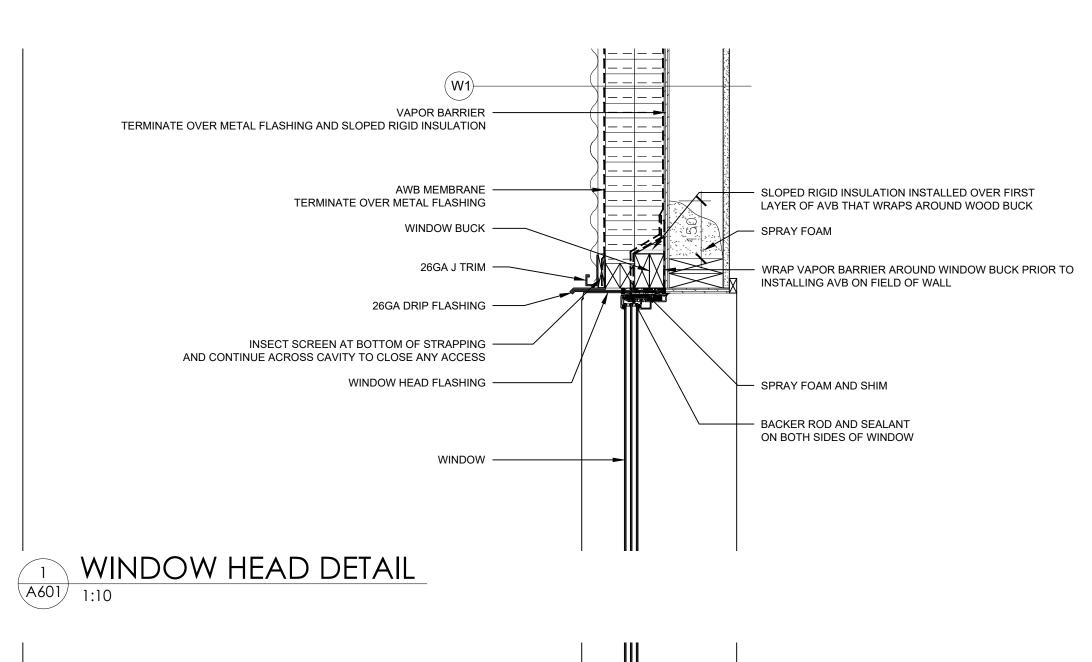


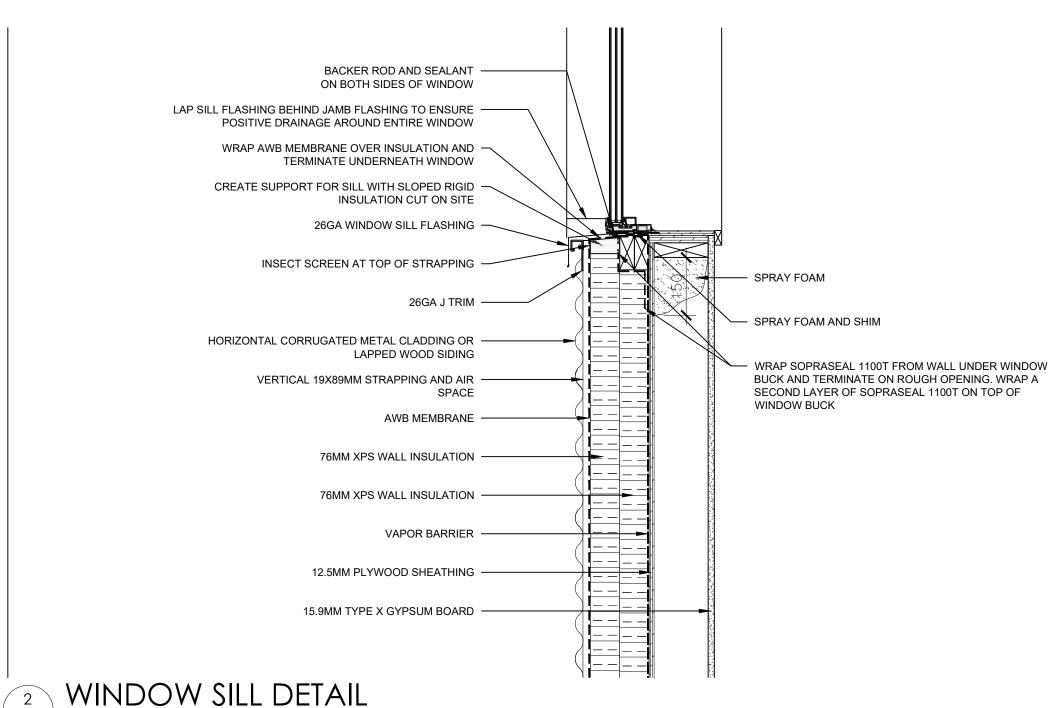
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0	0	DRAFT SCHE	MATIC	C.A.C	2022-04-01
0	0	SCHEMATIC I	DESIGN	C.A.C	2022-04-22
0	0	DESIGN DEV.	REV.	C.A.C	2022-12-20
0	0	95% REVIEW		C.A.C	2023-03-03
0	0	IFC		C.A.C	2023-04-25
DR	RAWI	N BY	CHECKED BY		

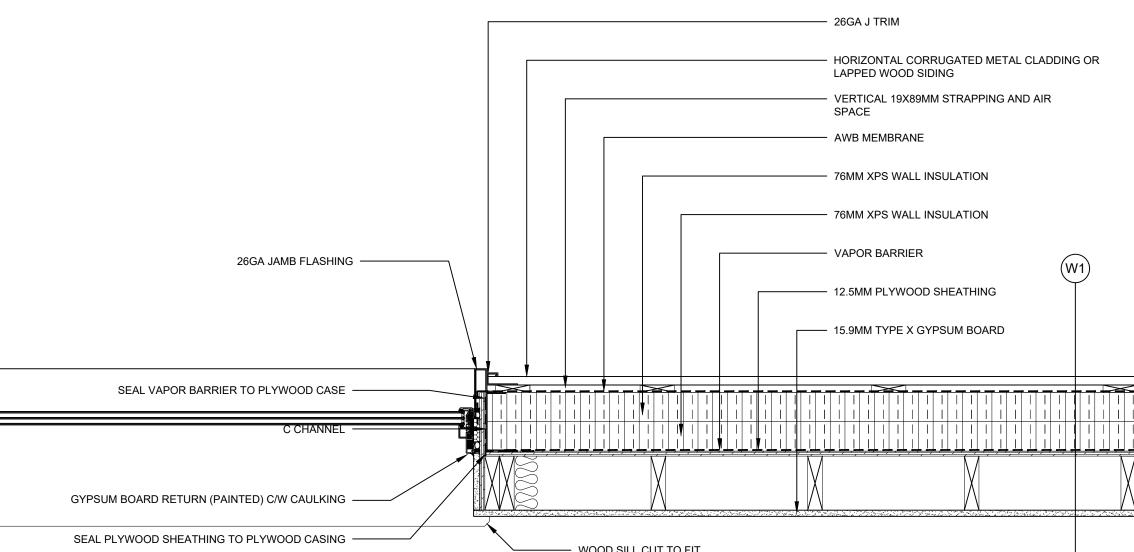
C. CAMERON, NWTAA, MRAIC

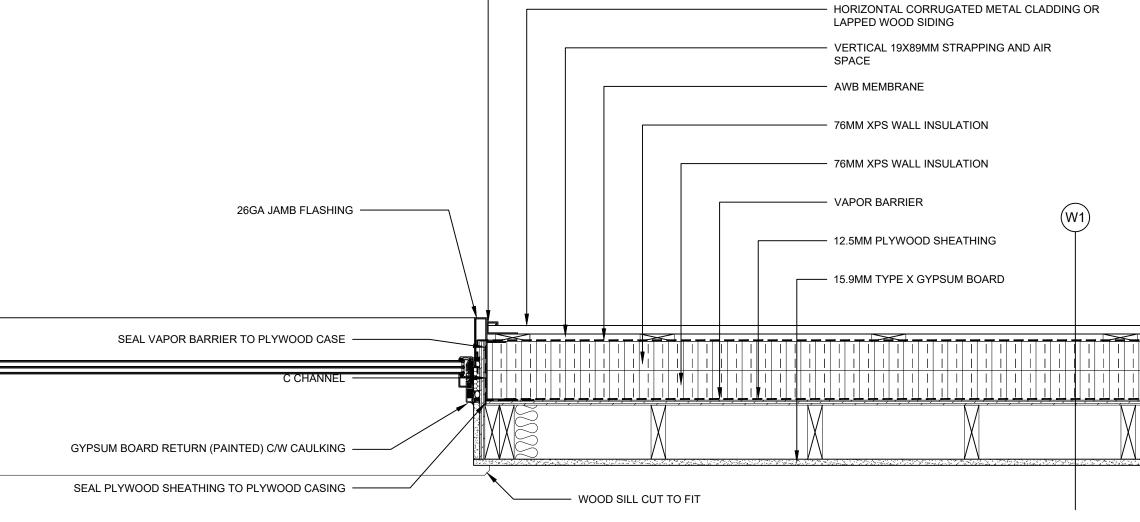
YUKON TEACHERS' ASSOCIATION **HEAD OFFICE** LOT 38, BLOCK 316 - 151 BLACK ST.

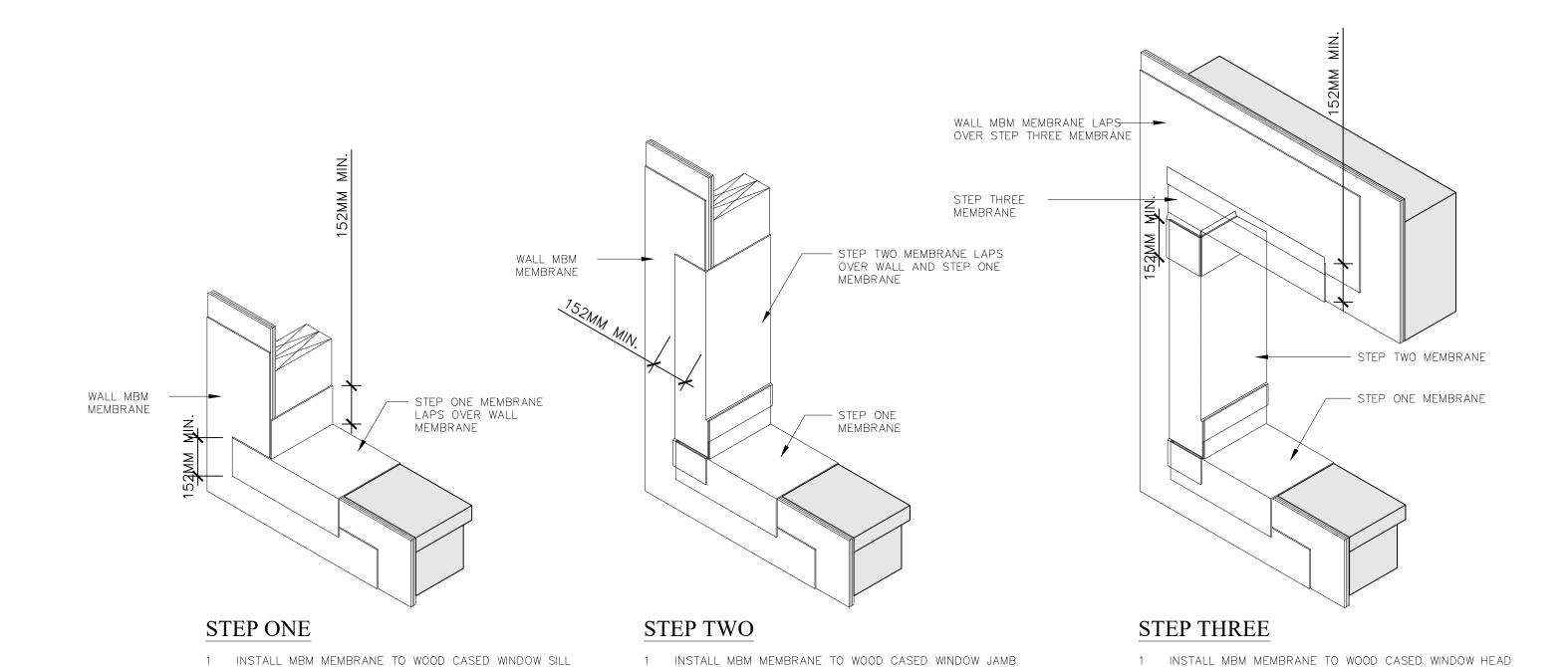
DRAWING TITLE DWG No A600 REVISION PROJECT No 21-100 DATE 2022-04-22







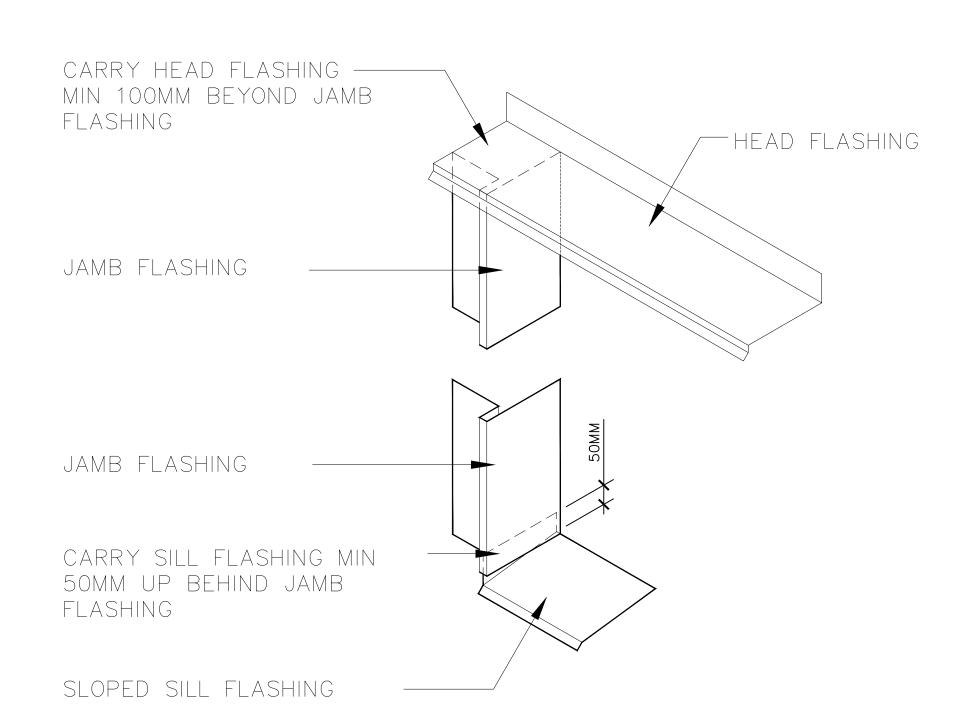




2 EXTEND MEMBRANE MINIMUM 6" BEYOND JAMB

3 WRAP MEMBRANE MINIMUM 6" OVER MBM FROM SILL

MEMBRANE AND LAPS TO BE ROLLED WITH MEMBRANE ROLLER



4 WINDOW MEMBRANE AND FLASHING SEQUENCE

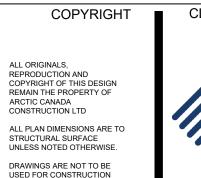
2 EXTEND MEMBRANE MINIMUM 6" BEYOND SILL

MEMBRANE AND LAPS TO BE ROLLED WITH MEMBRANE ROLLER

3 WRAP MEMBRANE MINIMUM 6" UP JAMB



WINDOW JAMB DETAIL
1:10





CONSULTANTS

PERMIT TO PRACTICE & SEAL **ARCAN** PERMIT No. 016 Issued pursuant to Section 29 of the Architects Act of the Northwest Territories



	SIONS USION DESCRIPTION	BY	DD/MMM/YYYY
00	RE-ZONING	C.A.C	2022-03-02
00	DRAFT SCHEMATIC	C.A.C	2022-04-01
00	SCHEMATIC DESIGN	C.A.C	2022-04-22
00	DESIGN DEV. REV.	C.A.C	2022-12-20
00	95% REVIEW	C.A.C	2023-03-03
00	IFC	C.A.C	2023-04-25

CHECKED BY

C. CAMERON, NWTAA, MRAIC

DRAWN BY

YUKON TEACHERS' ASSOCIATION **HEAD OFFICE**

2 EXTEND MEMBRANE MINIMUM 6" BEYOND WINDOW HEAD

3 WRAP MEMBRANE MINIMUM 6" OVER MBM FROM JAMB

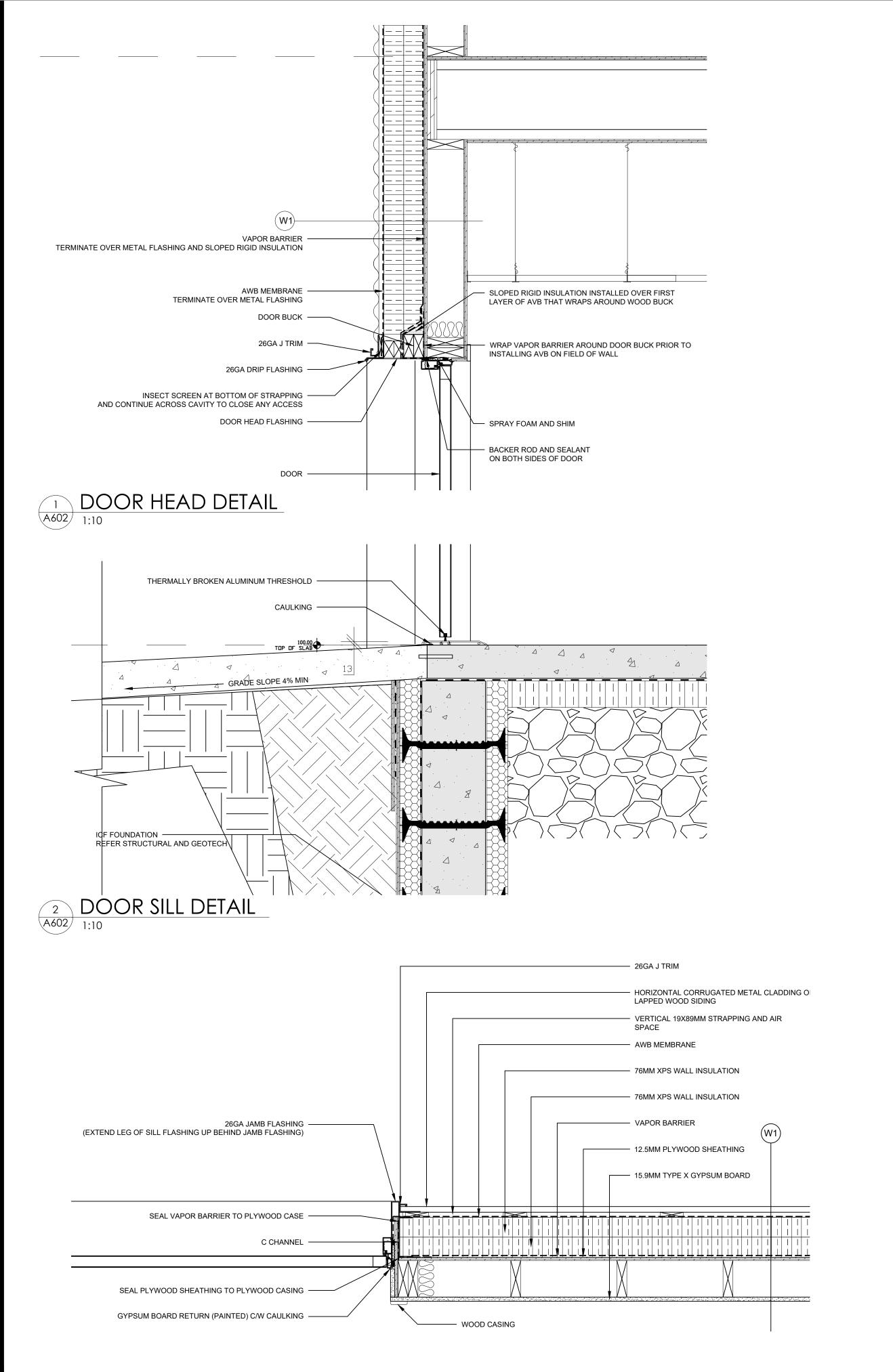
MEMBRANE AND LAPS TO BE ROLLED WITH MEMBRANE ROLLER

DRAWING TITLE A601

LOT 38, BLOCK 316 - 151 BLACK ST.

DATE 2022-04-22 REVISION PROJECT No

00 21-100



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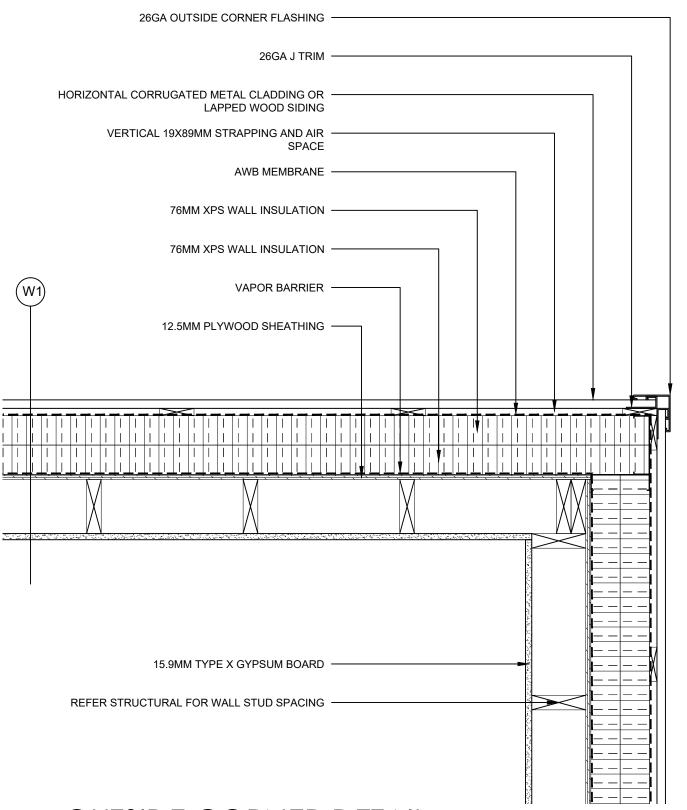
of **Education**

Professionals
Association

des **professionnels de l'éducation**

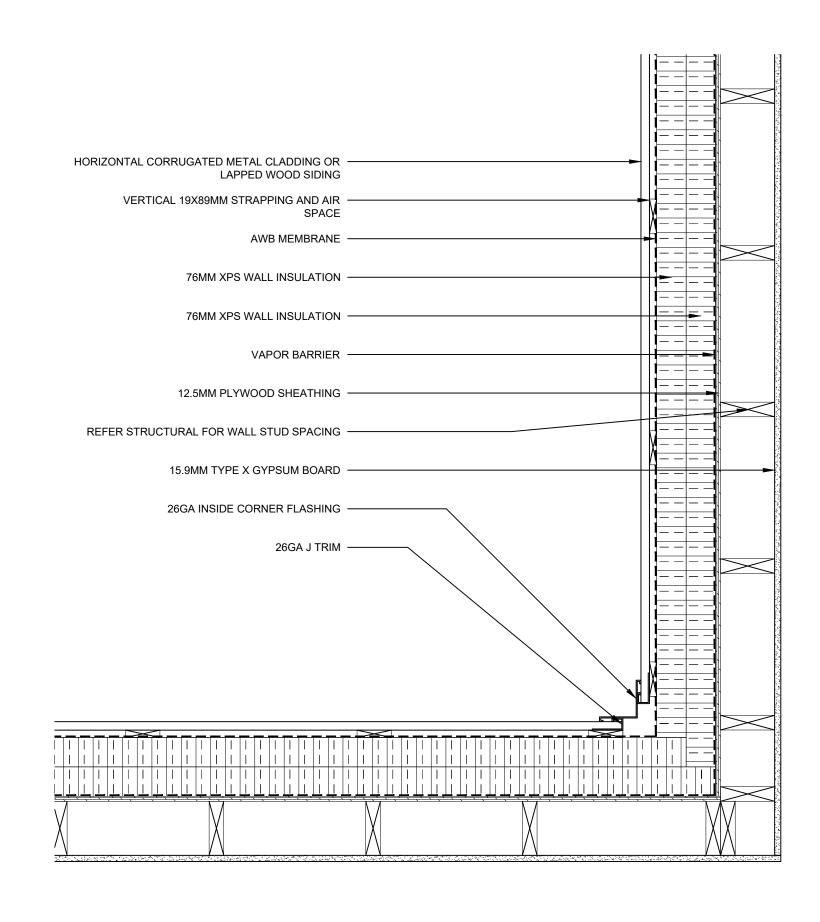
du Yukon

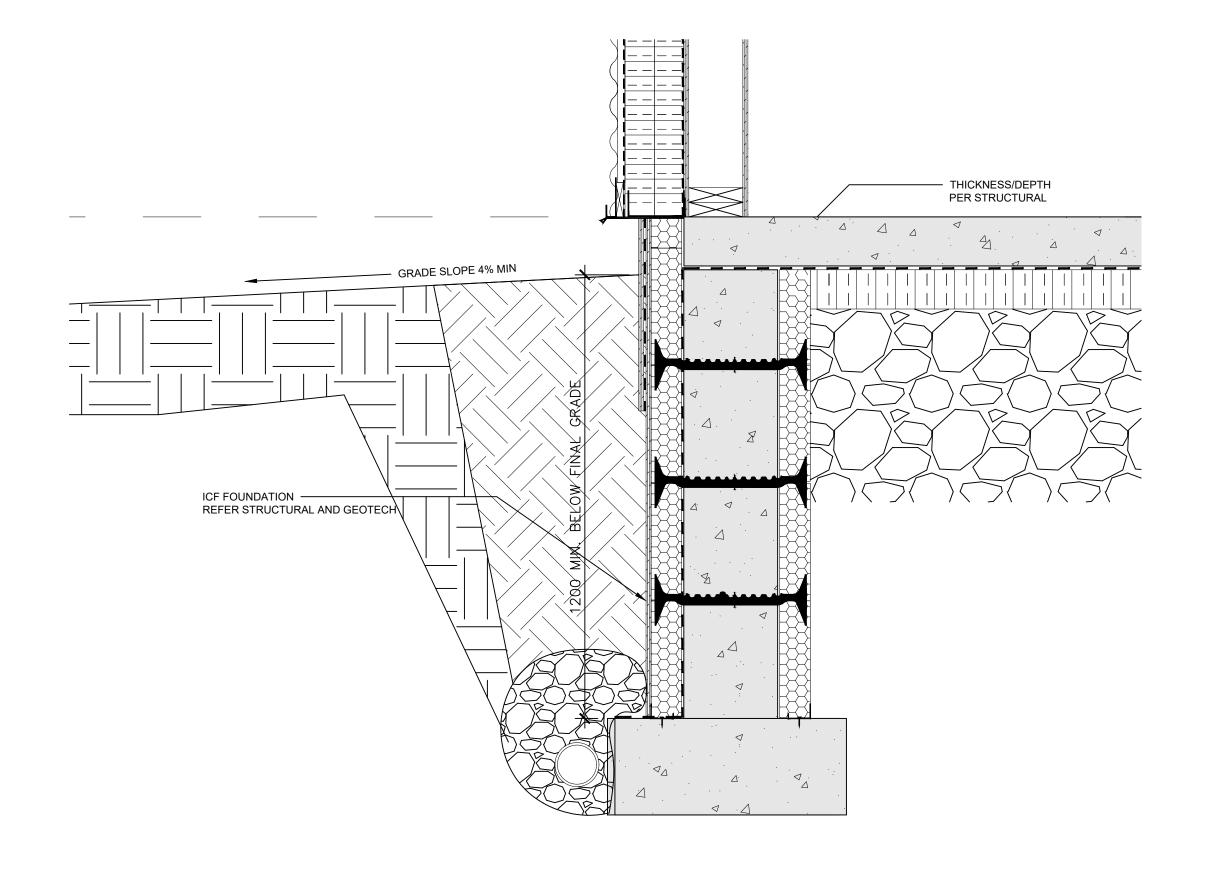
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OUTSIDE CORNER DETAIL

1:10





6 FOUNDATION INSULATION AT PERIMETER
1:10

3 DOOR JAMB DETAIL
1:10

YELLOWKNIFE, NT X1A 0G2

PH: (867) 873 2520

5 INSIDE CORNER DETAIL
1:10





■ F		SIONS SION DES	CRIPTION	BY	DD/MMM/YYY
(00	RE-ZONING		C.A.C	2022-03-02
(00	DRAFT SCHE	MATIC	C.A.C	2022-04-01
(00	SCHEMATIC	DESIGN	C.A.C	2022-04-22
(00	DESIGN DEV.	. REV.	C.A.C	2022-12-20
(00	95% REVIEW		C.A.C	2023-03-03
(00	IFC		C.A.C	2023-04-25
D	RAWI	N BY	CHECKED BY		

C. CAMERON, NWTAA, MRAIC

PROJECT TITLE

YUKON TEACHERS' ASSOCIATION
HEAD OFFICE

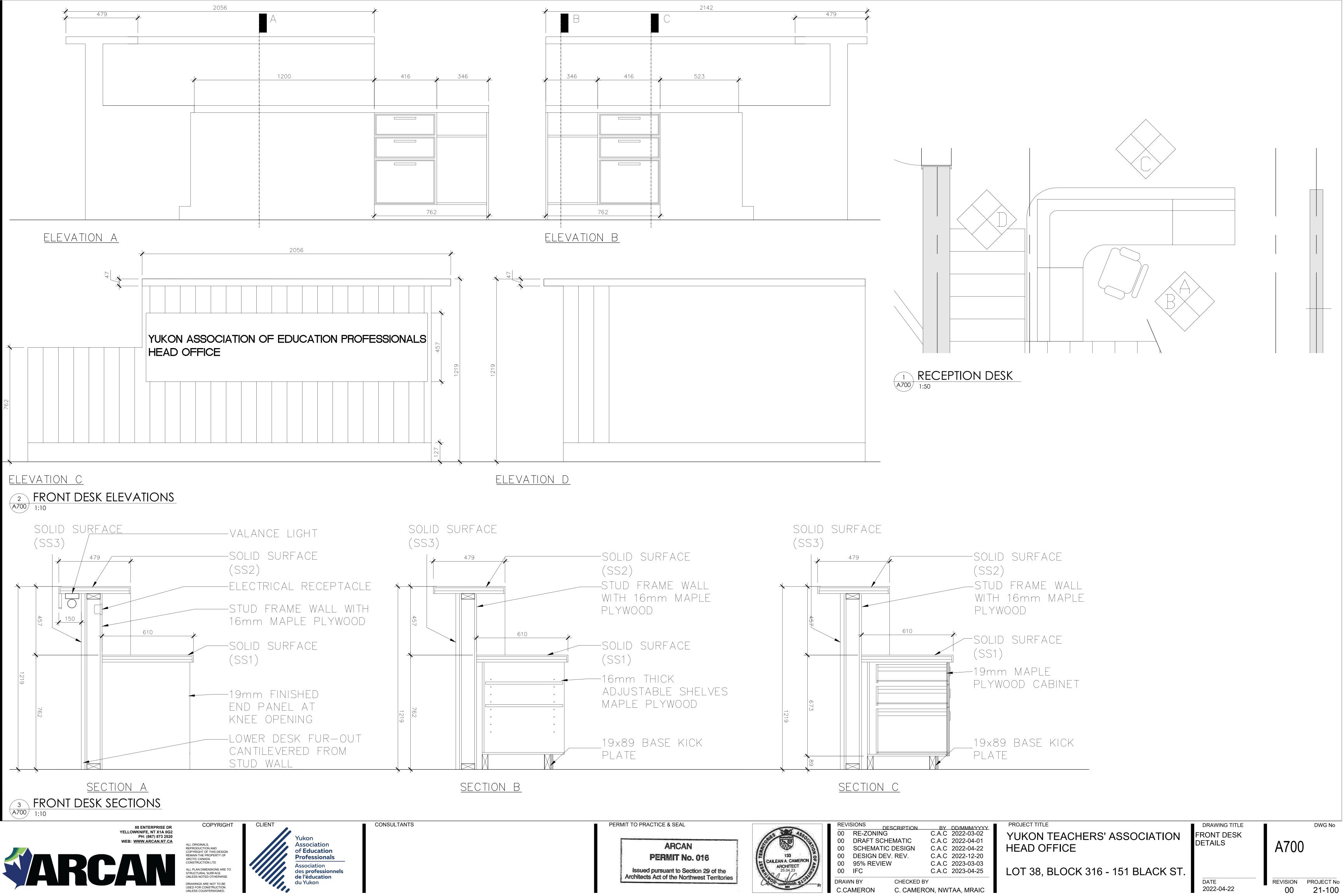
LOT 38, BLOCK 316 - 151 BLACK ST.

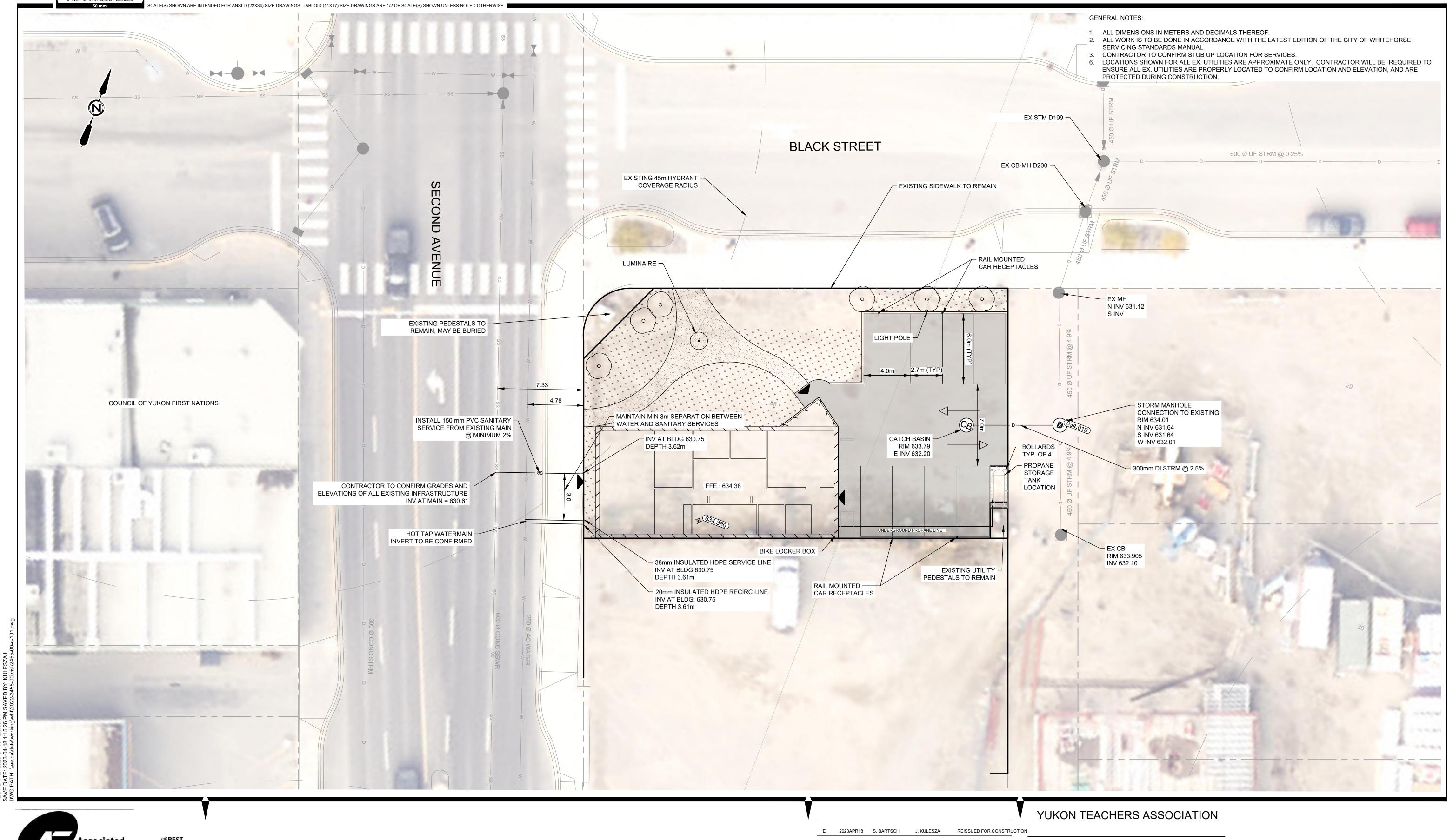
DATE
2022-04-22

DRAWING TITLE
DETAILS

A602

REVISION PROJECT No
21-100







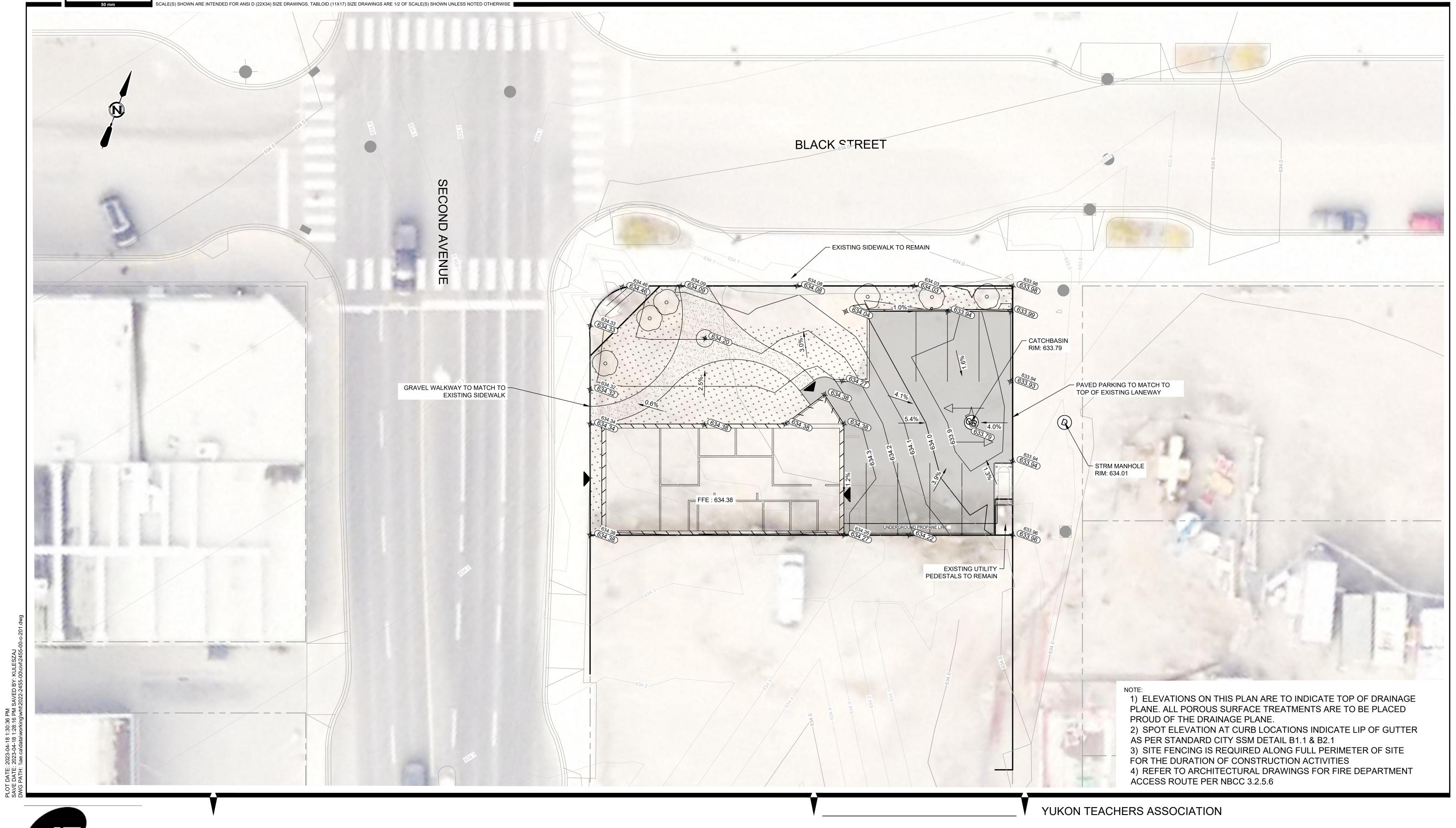


E	2023APR18	S. BARTSCH	J. KULESZA	REISSUED FOR CONSTRUCTION	
D	2023APR14	S. BARTSCH	J. KULESZA	ISSUED FOR CONSTRUCTION	HEAD OFFICE B
С	2023MAR02	S. BARTSCH	J. KULESZA	ISSUED FOR 90% REVIEW	CIVIL DESIGN S
В	2022DEC02	S. BARTSCH	J. KULESZA	ISSUED FOR 50% REVIEW	
Α	2022MAR31	S. BARTSCH	H. MCINTYRE	ISSUED FOR 30% REVIEW	2022-2455-00
REV	DATE	DESIGN	DRAWN	DESCRIPTION	SCALE: AS SHOWN
	D C B	D 2023APR14 C 2023MAR02 B 2022DEC02 A 2022MAR31	D 2023APR14 S. BARTSCH C 2023MAR02 S. BARTSCH B 2022DEC02 S. BARTSCH A 2022MAR31 S. BARTSCH	D 2023APR14 S. BARTSCH J. KULESZA C 2023MAR02 S. BARTSCH J. KULESZA B 2022DEC02 S. BARTSCH J. KULESZA A 2022MAR31 S. BARTSCH H. MCINTYRE	D 2023APR14 S. BARTSCH J. KULESZA ISSUED FOR CONSTRUCTION C 2023MAR02 S. BARTSCH J. KULESZA ISSUED FOR 90% REVIEW B 2022DEC02 S. BARTSCH J. KULESZA ISSUED FOR 50% REVIEW A 2022MAR31 S. BARTSCH H. MCINTYRE ISSUED FOR 30% REVIEW

HEAD OFFICE BUILDING CIVIL DESIGN SERVICES

CIVIL SITE SERVICING PLAN PLAN VIEW

DRAWING	REVISION	SHEET	
2455-00-C-101	E	1	







REV	DATE	DESIGN	DRAWN	DESCRIPTION ;
Α	2022DEC02	S. BARTSCH	J. KULESZA	ISSUED FOR 50%
В	2023MAR03	S. BARTSCH	J. KULESZA	ISSUED FOR 90%
С	2023APR14	S. BARTSCH	J. KULESZA	ISSUED FOR CONSTRUCTION
D	2023APR18	S.BARTSCH	J. KULESZA	REISSUED FOR CONSTRUCTION

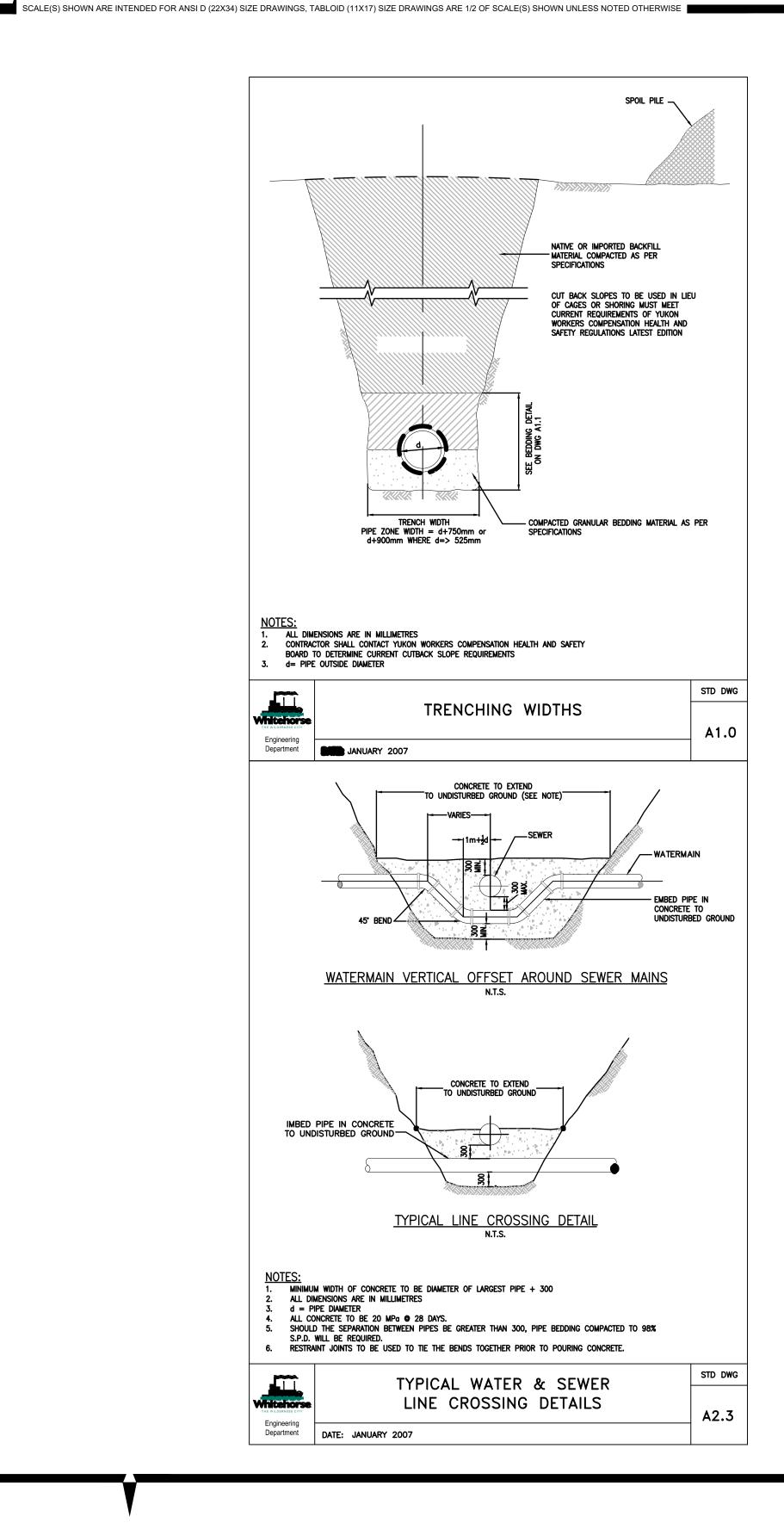
HEAD OFFICE BUILDING CIVIL DESIGN SERVICES

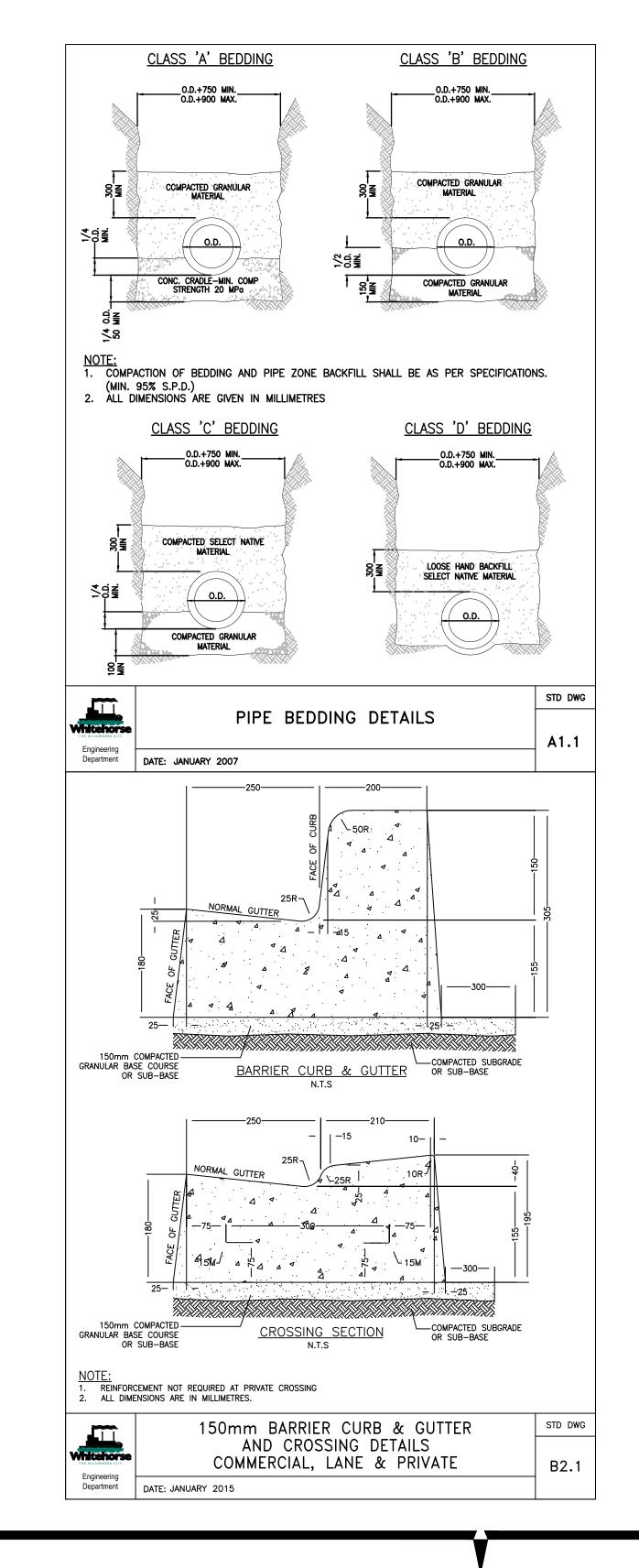
2022-2455-00 SCALE: 1:150

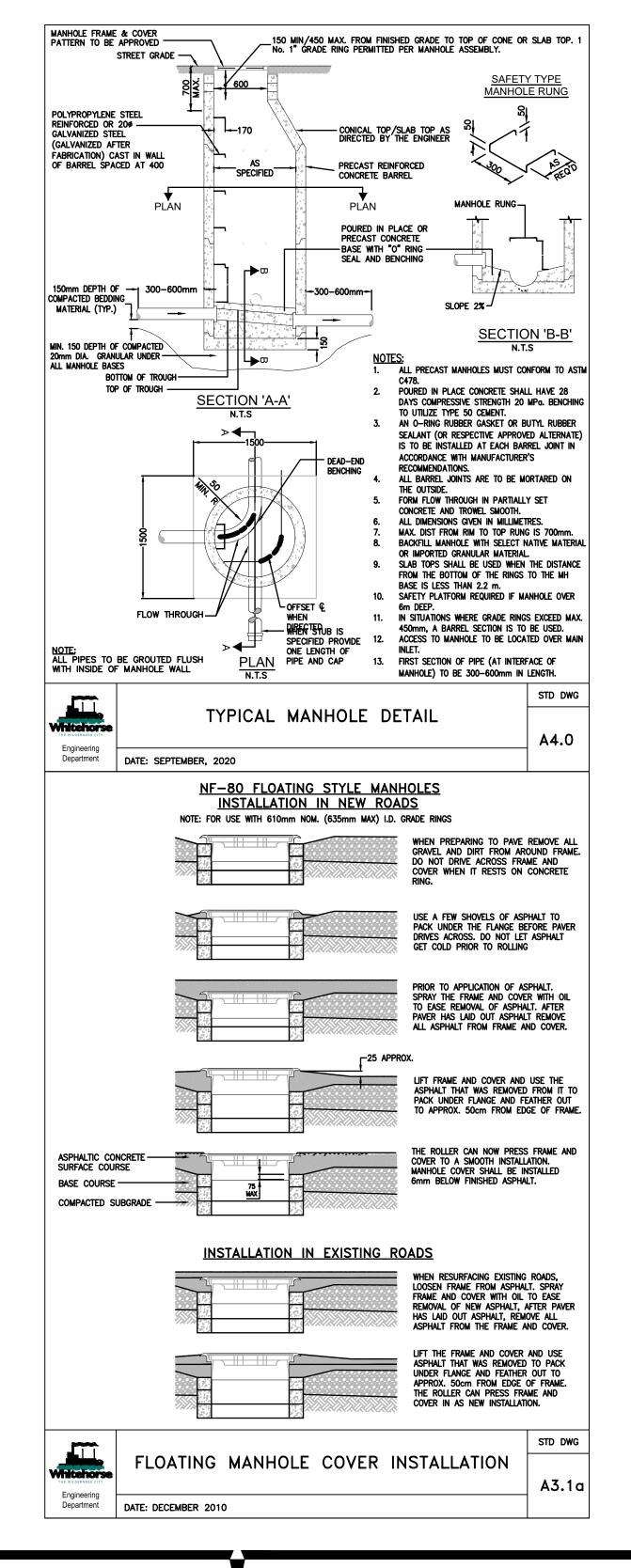
CIVIL
SITE GRADING PLAN
PLAN VIEW

DRAWING	REVISION	SHEET
2455-00-C-201	D	2













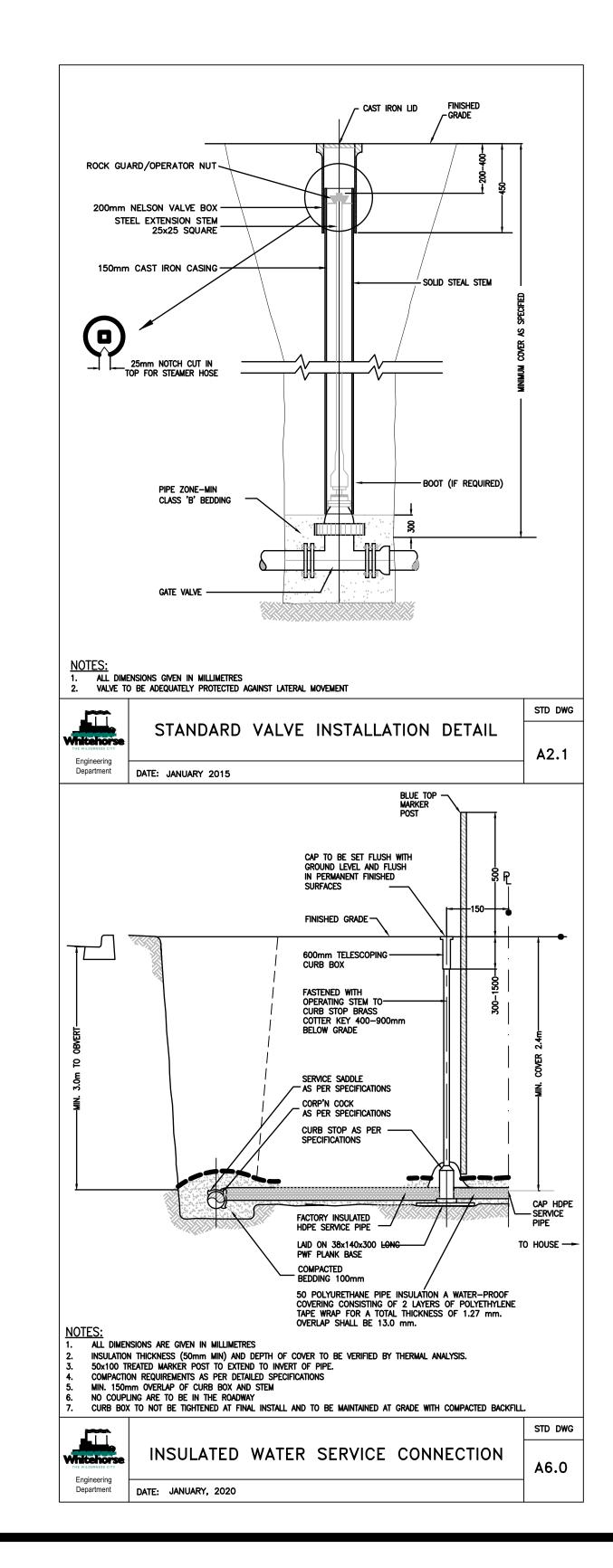
YUKON TEACHERS ASSOCIATION

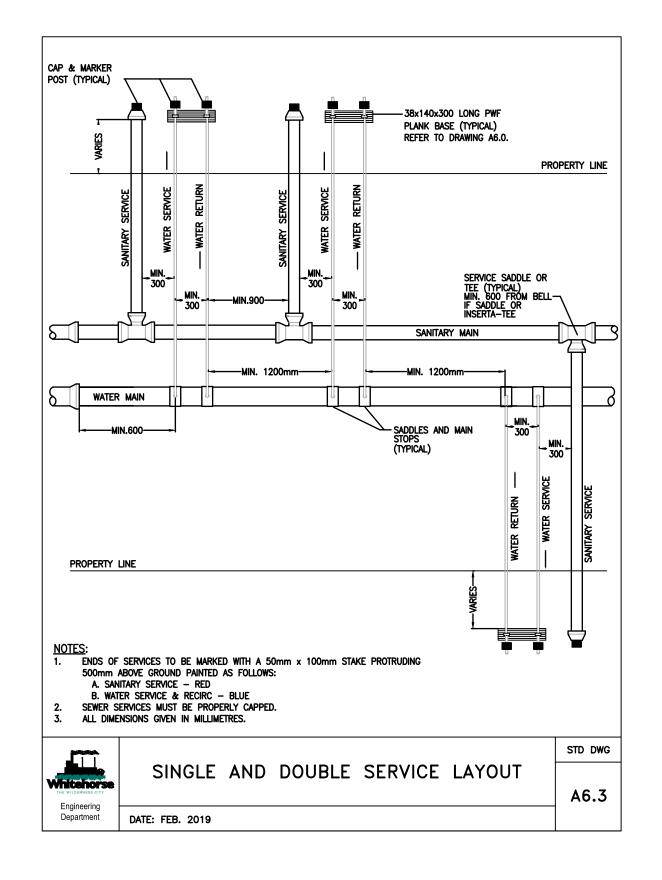
C 2023APR18 S. BARTSCH J. KULESZA REISSUED FOR CONSTRUCTION B 2023APR14 S. BARTSCH J. KULESZA ISSUED FOR CONSTRUCTION A 2023MAR03 S. BARTSCH J. KULESZA ISSUED FOR 90% REVIEW	-	REV
		А
C 2023APR18 S. BARTSCH J. KULESZA REISSUED FOR CONSTRUCTION	ON	В
	CTION	С

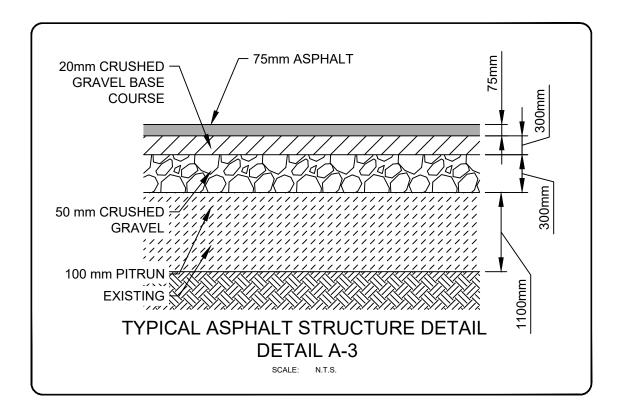
HEAD OFFICE BUILDING CIVIL DESIGN SERVICES

2022-2455-00 SCALE: AS SHOWN CIVIL GENERAL DETAILS 1 OF 3

DRAWING	REVISION	SHEET
427-00-C-501	С	3











YUKON TEACHERS ASSOCIATION

HEAD OFFICE BUILDING CIVIL DESIGN SERVICES C 2023APR18 S. BARTSCH J. KULESZA REISSUED FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION

ISSUED FOR 90% REVIEW

DESCRIPTION

B 2023APR14 S. BARTSCH

REV DATE DESIGN

A 2023MAR03 S. BARTSCH J. KULESZA

J. KULESZA

DRAWN

2022-245

SCALE: AS SHOWN

	CIVIL
	GENERAL DE
55-00	2 OF 3

CIVIL	
GENERAL DETAILS	
2 OF 3	

DRAWING	REVISION	SHEET
2427-00-C-502	С	4

STRUCTURAL NOTES

GENERAL

- 1. ALL CONSTRUCTION IS TO CONFORM TO THE NATIONAL BUILDING CODE (2015).
- 2. ALL REFERENCES TO CONSTRUCTION STANDARDS NOTED ON THESE DRAWINGS REFER TO THE LATEST REVISED ISSUE.
- 3. THE DRAWING PREPARED BY McELHANNEY ARE INTENDED FOR STRUCTURAL REQUIREMENTS OF THE FLOOR SUPPORTS AND BUILDING FOUNDATION STRUCTURAL FRAMING ONLY, ALL OTHER ASPECTS ASSOCIATED WITH THIS PROJECT WHICH INCLUDE, BUT ARE NOT LIMITED TO. METAL BUILDING FRAMING. ARCHITECTURAL. CIVIL. GEOTECHNICAL MECHANICAL, ELECTRICAL, FIRE PROTECTION, OCCUPANT SAFETY, ACCESSIBILITY AND BUILDING ENVELOPE ARE TO BE DESIGNED, SPECIFIED AND APPROVED BY OTHERS AND ARE CONSIDERED BEYOND McELHANNEY SCOPE OF WORK
- 4. STRUCTURAL ELEMENTS PRESENTED ON THESE DRAWINGS ARE FOR PERMANENT STRUCTURE AND FOUNDATIONS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY AND CONSTRUCTION BRACING AND SUPPORT INCLUDING GEOTECHNICAL REQUIREMENTS UNTIL THE PROJECT IS COMPLETED.
- 5. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR DIMENSIONS, GRADES, FLOOR ELEVATIONS, ROOF ELEVATIONS, ROOF SLOPES, AND FOR DIMENSIONS AND LOCATIONS OF DOORS, WINDOWS, RECESSES, SLEEVES, EQUIPMENT, SHAFTS, INSERTS, NAILERS, CHAMFERS, ETC.. GRADES, ELEVATIONS AND SLOPES SHOWN ON STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY AND MUST BE CONFIRMED WITH ARCHITECTURAL DRAWINGS AND/OR SITE CONDITIONS PRIOR TO CONSTRUCTION.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOB SITE. FOR INFORMATION THAT PERTAINS SOLELY TO FABRICATION PROCESSES OR TO TECHNIQUES OF CONSTRUCTION AND INSTALLATION AND FOR COORDINATION OF THE WORK OF ALL SUB-TRADES.

REFERENCED DRAWINGS

- 1 BUILDING LAYOUT AND STRUCTURAL SIZING IS BASED ON ARCHITECTURAL DESIGN DRAWINGS PREPARED BY CAELIN CAMERON OF ARCTIC CANADA CONSTRUCTION, DATED MAR.2023.
- 2. McELHANNEY HAS RELIED ON THE ARCHITECTURAL DRAWING SET AS ACCURATE AND TRUE. McELHANNEY IS NOT RESPONSIBLE FOR ANY ERROR/OMMISSIONS ON THESE DRAWINGS AS A RESULT OF ERRORS OR SUBSEQUENT CHANGES TO THE ARCHITECTURAL DRAWING SET OR UNKNOWN SITE AND AS-BUILT CONDITIONS
- 3. IF CHANGES ARE MADE TO THE LAYOUT OF THE BUILDING OR METAL BUILDING COLUMN REACTIONS, OR SITE CONDITIONS VARY FROM ASSUMED, OR THE ASSUMED LOAD PATHS ARE ALTERED (RELOCATED POSTS, BEAMS, ETC), THE ARCHITECT AND STRUCTURAL ENGINEER SHOULD BE NOTIFIED SUCH THAT CHANGES CAN BE MADE TO THE DESIGN IF REQUIRED.

FIELD REVIEWS BY McELHANNEY

- 1. McELHANNEY ASSUMES NO RESPONSIBILITY FOR FIELD REVIEWS OF THE CONSTRUCTION OR VERIFICATION OF THE CONSTRUCTION UNLESS EXPRESSLY RETAINED TO DO SO.
- 2. McELHANNEY LTD. (McELHANNEY) PROVIDE FIELD REVIEWS ONLY FOR THE WORK SHOWN ON THESE DRAWINGS. FIELD REVIEWS BY McELHANNEY ARE PERIODIC AND AT THE SOLE DISCRETION OF McELHANNEY IN ORDER TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE DESIGN DRAWINGS AND SUPPORTING DOCUMENTS.
- 3. FIELD REVIEWS BY McELHANNEY ARE NOT FOR THE CONTRACTORS BENEFIT NOR DOES IT MAKE McELHANNEY GUARANTORS OF THE CONTRACTOR'S WORK. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO BUILD THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS
- 4. McELHANNEY WILL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 5. IF McELHANNEY IS RETAINED FOR FIELD REVIEWS THEN THE CONTRACTOR IS TO PROVIDE NOTICE PRIOR TO CONCRETE POURS AND BEFORE ENCLOSING FRAMING ELEMENTS. FIELD REVIEWS ARE TO BE SCHEDULED AND TO BE CARRIED OUT DURING NORMAL BUSINESS HOURS UNLESS SPECIAL ARRANGEMENTS ARE MADE WITH McELHANNEY.

DESIGN STANDARDS:

1. DESIGN METHODOLGY: LIMIT STATES DESIGN

2. CLIMATIC INFORMATION:

• ROOF DESIGN CRITERIA Ss = 2.0 KPa Sr = 0.1 KPa Is = 1.0	• WIND DESIGN CRITERIA 1/10 YEARS = 0.29 KPa 1/50 YEARS = 0.38 KPa Iw = 1.0	• SEISMIC DESIGN PARA AS PER NATIONAL BUIL Sa(0.2) = 0.334 Sa(0.5) = 0.258 Sa(1.0) = 0.170 Sa(2.0) = 0.094 Sa(5.0) = 0.033 Sa(10) = 0.012	
		SITE CLASS: CLASS D	

3. DESIGN LOAD INFORMATION:

DEAD LOAD: 0.7 KPa + 0.5 KPa COLLATERAL LOAD LIVE LOAD: 4.8 KPa

GEOTECHNICAL INFORMATION:

- 1. REFER TO THE GEOTECHNICAL REPORT PREPARED BY HEMMERA ENVIROCHEM INC. (DATED FEBRUARY 23, 2022, GEOTECHNICAL INVESTIGATION REPORT, LOT 38, 2ND AVENUE AND FRONT STREET, WHITEHORSE, YT) FOR SOIL CONDITIONS TO BE EXPECTED ON THIS SITE. THE SPREAD FOOTING CAN BE DESIGNED USING AN ALLOWABLE BEARING CAPACITY140 KPa. STRIP FOOTING CAN BE DESIGNED USING AN ALLOWABLE BEARING CAPACITY 120 KPa.
- 2. IT IS THE RECOMMENDATION OF McELHANNEY LTD. THAT THE OWNER RETAIN A QUALIFIED GEOTECHNICAL ENGINEER TO CONFIRM THE SUITABILITY OF THE ACTUAL GEOTECHNICAL CONDITIONS AND RECOMMENDATIONS FOR THIS PROJECT.

LIGHT STEEL FRAMING (LSF) AND STEEL STUDS

- 1. LIGHT STEEL FRAMING (LSF) AND STEEL STUDS TO MEET THE REQUIREMENTS OF CAN/CSA-S136-2016 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
- 2. STEEL STUD/JOIST MATERIAL PROPERTIES:
 - MINIMUM YIFI D STRENGTH = 50 KSI OR 345 MPA YOUNG'S MODULUS = 29008 KSI OR 200003 MPA
- 3. CONTRACTOR TO CONFIRM SUPPLIED MATERIALS MEET THE SPECIFICATIONS ABOVE.
- 4. THE LSF AND STEEL STUD SUPPLIER IS TO SUBMIT SHOP DRAWINGS AND LAYOUT PLANS IN ACCORDANCE WITH BUILDING SPECIFICATIONS TO THE ENGINEER FOR REVIEW, MINIMUM 2 WEEKS PRIOR TO FABRICATION.
- 5. THE SHOP DRAWINGS ARE TO INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: PROJECT NAME PROJECT ADDRESS DESIGN LOADS DESIGN METHODS LIVE LOAD AND TOTAL LOAD DEFLECTIONS, STEEL STUD LAYOUT, MEMBER SIZES, GAUGES, MATERIAL GRADE, BRACING SYSTEMS, BEARING REQUIREMENTS, BEARING ATTACHMENT, MEMBER CONNECTION DETAILS AND INSTALLATION PROCEDURE.

ROUGH CARPENTRY

- 1. ALL FRAMING IS TO BE S-P-F #2 OR BETTER, S4S, SEASONED DRY UNLESS INDICATED OTHERWISE ON
- 2. ALL FIRE STOPS, BLOCKING, BRIDGING, STRAPPING, NAILERS AND LEDGERS ARE TO BE CONSTRUCTION GRADE (MIN.).
- 3. LAMINATE STUDS UNDER ALL WALL BEAMS AND LINTELS TO FORM COLUMNS OF SAME WIDTH AS BEAM AND PROVIDE SOLID BLOCKING BETWEEN JOISTS UNDER COLUMNS.
- 4. USE PL400 SUBFLOOR ADHESIVE FOR ALL FLOOR SHEATHING.

PRE-APPROVED EQUAL. MINIMUM 1200 LBS CAPACITY.

- 5. PLYWOOD SHEATHING IS TO CONFORM TO CSA 0121 DOUGLAS FIR 1220mm x 2440mm SQUARE EDGED EXCEPT TONGUE AND GROOVED (T&G) FOR FLOORS.
- 6. ORIENTATED STRAND BOARD (OSB) SHEATHING IS TO CONFORM TO CSA 0437.0 GRADE 0-2, 1220mm x 2440mm SQUARE EDGED EXCEPT TONGUE AND GROOVED (T&G) FOR FLOORS.
- 7. MINIMUM NAILING OF PLYWOOD SHEATHING ON WALLS AND ROOFS (UNLESS NOTED OTHERWISE ON PLANS): 64mm (2-1/2") x 3.33mmØ COMMON NAILS @ 150mm o/c PERIMETER AND SUPPORTED SHEET EDGES. 64mm (2-1/2") x 3.33mmØ COMMON NAILS @ 305mm o/c INTERMEDIATE. STAPLES ARE NOT PERMITTED
- 8. PROVIDE T&G SHEATHING FOR FLOOR SHEATHING OR AS SPECIFIED ON DRAWING AND ALL FLOOR SHEATHING TO BE GLUED AND ATTACHED WITH SCREWS.
- 9. ALL BUILT-UP BEAMS OR HEADERS TO BE NAILED TOGETHER WITH 3 ROWS OF 76.2mm x 3.66mmØ NAILS @ 300mm o/c MINIMUM OR AS SPECIFIED BY SCL SUPPLIER.
- 10. INDIVIDUAL MEMBERS OF BUILT-UP BEAMS OR HEADERS TO BE UNSPLICED BETWEEN SUPPORTS.
- 11. ALL SAWN TIMBER EXPOSED TO EXTERIOR, IN CONTACT WITH CONCRETE, MASONRY IS TO BE PRESSURE TREATED IN CONFORMANCE WITH BUILDING CODE REQUIREMENTS.
- 12. USE APPROVED JOIST HANGERS AT ALL FLUSH BEAMS. MANUFACTURER TO BE SIMPSON STRONG TIE OR
- 13. ALL BUILT-UP MEMBERS OR INDIVIDUAL JOISTS FRAMING TO FLUSH BEAMS OR HEADERS ARE TO BE CONNECTED WITH METAL HANGERS PRE-APPROVED BY ENGINEER. (SIMPSON STRONG TIE OR PRE-APPROVED
- 14. ALL LOADBEARING STUD WALLS TO BE ANCHORED TO CONCRETE AT THE BASE WITH 12mm DIAMETER BOLTS
- @ 1220mm MAXIMUM. FASTEN NON-LOADBEARING PARTITION WALLS WITH POWER ACTIVATED FASTENERS @ 610mm o/c MAXIMUM.
- 15. PROVIDE MINIMUM SOLID BLOCKING @ 610mm o/c OR DOUBLE TRIMMER JOISTS AT LOCATIONS WHERE BEARING WALLS RUN PARALLEL WITH THE JOIST SPAN.
- 16. CONTINUE ALL POSTS/BUILT-UPS AND CRIPPLES DOWN TO FOUNDATION COMPLETE WITH BLOCKING IN JOIST SPACE.

CONCRETE

- 1. PREPARATION, PLACING AND FINISHING OF CONCRETE IS TO CONFORM TO CSA A23.1. CONCRETE DESIGN IS CONFIRM TO CSA A23.3.
- 2. TESTING OF CONCRETE IS TO CONFORM TO CSA A23.2. THE FREQUENCY AND NUMBER OF TESTS IS NOT TO BE LESS THAN ONE STRENGTH, SLUMP AND AIR TEST FOR FOOTINGS, FOUNDATIONS AND SLABS.
- 3. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE THE TESTING SCHEDULE AND TIMING WITH THE TESTING AGENCY.
- 4. IF A CONCRETE HARDENER IS SELECTED BY THE OWNER/ARCHITECT THEN THE AIR CONTENT OF THE CONCRETE IS TO BE COORDINATED WITH THE MANUFACTURER FOR COMPATIBILITY.
- CONCRETE PROPERTIES:

ITEM	28 DAY STRENGTH	EXPOSURE CLASS	W/C	AIR (%)	CEMENT TYPE	AGG. SIZE (")
FOOTINGS	25 MPa	F-2	.55	4 - 7	GU	3/4
FOUNDATIONS	25 MPa	F-2	.55	4 - 7	GU	3/4
INTERIOR SLAB	25 MPa	F-2	.55	4 - 7	GU	3/4
EXTERIOR SLAB	32 MPa	C1	.45	5 - 8	GU	3/4

REINFORCING

- 1. REINFORCING STEEL IS TO CONFORM TO CSA G30.12M GRADE 400 MPa.
- 2. REINFORCING STEEL IS TO BE PLACED AS DETAILED TO 10mm TOLERANCE AND IS TO BE SUPPORTED BY METAL OR PLASTIC SUPPORTS AND/OR HANGERS IN ACCORDANCE WITH
- LAP ALL REINFORCING BAR SPLICES 32 BAR DIAMETERS MINIMUM UNLESS INDICATED OTHERWISE ON THE DRAWINGS
- 4. REINFORCING STEEL IS TO BE CLEAN, FREE OF CORROSION AND UNDAMAGED.
- 5. DO NOT WELD BARS OR USE HEAT TO BEND REINFORCING STEEL
- 6. WELDED WIRE MESH IS TO CONFORM TO CSA G30.15.
- 7. CONCRETE COVER OVER REINFORCEMENT IS TO BE:
- a SURFACE PLACED IN CONTACT WITH GROUND = 75mm
 - b. FORMED SURFACE EXPOSED TO GROUND OR WEATHER =50mm

STRUCTURAL MOVEMENTS

- 1. THIS STRUCTURE WILL UNDERGO NORMAL TYPES OF MOVEMENT AND DEFLECTIONS DURING ITS LIFE AND PERFORMANCE. NON-STRUCTURAL COMPONENTS ARE TO BE DESIGNED AND DETAILED TO ACCOMMODATE THESE MOVEMENTS AND DEFLECTIONS. THE DESIGN AND DETAILING OF THESE NON-STRUCTURAL ITEMS ARE BY OTHERS AND IS CONSIDERED BEYOND THE SCOPE OF WORK AND RESPONSIBILITY OF MCELHANNEY.
- 2. FOLLOWING ARE EXAMPLES AND ESTIMATES OF POSSIBLE MOVEMENT:
- DIFFERENTIAL VERTICAL MOVEMENT BETWEEN ADJACENT COLUMNS AND BETWEEN ADJACENT COLUMNS AND WALLS = APPROXIMATELY 20mm ±
- VERTICAL DEFLECTION OF COLUMNS AND WALLS DUE TO SHRINKAGE AND CREEP =
- APPROXIMATELY 6mm± PER 3.6m HEIGHT
- VERTICAL DEFLECTION OF EDGE BEAMS AND SLAB EDGES = APPROXIMATELY 25mm±
- DIFFERENTIAL DEFLECTION OF EDGE BEAMS AND SLAB EDGES = APPROXIMATELY 16mm±
- VERTICAL DEFLECTIONS AT INTERIOR FLOORS = APPROXIMATELY 25mm±
- DIFFERENTIAL DEFLECTIONS AT INTERIOR FLOORS = APPROXIMATELY 16mm±
- HORIZONTAL DRIFT DURING WIND AND EARTHQUAKE BETWEEN FLOORS = APPROXIMATELY
- LONG TERM SETTLEMENT AT NAILER = 3mm
- 3. ALL STRUCTURES ARE ALSO SUBJECT TO CONSTRUCTION TOLERANCES AND SHOULD BE ALLOWED FOR IN DETAILING NON-STRUCTURAL COMPONENTS IN ADDITION TO THE ABOVE MOVEMENTS.

CONTRACTOR NOTE

THESE DRAWINGS IDENTIFY STRUCTURAL FRAMING DETAILS ONLY AND DIMENSIONS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY. REFER TO THE ARCHITECTURAL PLANS PREPARED BY CAELIN CAMERON OF ARCTIC CANADA CONSTRUCTION . DATED JUNE 2021. FOR ALL DIMENSIONS INSULATION VAPOUR BARRIER AIR BARRIER AND DRAINAGE REQUIREMENTS PRIOR TO CONSTRUCTION. THIS DRAWING HAS BEEN DESIGNED TO PART 4 OF NBCC (2015) REPORT ALL DESCREPANCIES TO ENGINEER.

STRUCTURAL COMPOSITE LUMBER AND WOOD I JOISTS

- 1. STRUCTURAL COMPOSITE LUMBER (SCL) AND WOOD I-JOISTS AND ALL OTHER STRUCTURAL COMPONENTS ARE TO BE DESIGNED AND FABRICATED IN ACCORDANCE WITH PART 4 OF THE NATIONAL BUILDING CODE OF CANADA (2015), CSA086.1, TPIC PROCEDURES AND LOCAL
- 2. ALL ROOF SUPPORTING COMPONENTS ARE TO BE DESIGNED FOR BALANCED AND UNBALANCED LOAD CONDITIONS, INCLUDING SNOW DRIFTING, AS PER THE NATIONAL BUILDING CODE OF CANADA (2015) AND NBC STRUCTURAL COMMENTARIES.
- 3. DEFLECTION CRITERIA FOR ALL STRUCTURAL COMPOSITE LUMBER AND WOOD I-JOISTS PRODUCTS TO BE AS FOLLOWS: MAXIMUM LIVE LOAD DEFLECTION IS TO BE L/360
- 5. THE STRUCTURAL COMPOSITE LUMBER (SCL) AND WOOD I-JOIST MANUFACTURER IS TO SUBMIT SHOP DRAWINGS, DESIGN RUNS AND LAYOUT PLANS INCLUDING; MEMBER LAYOUT, SIZE, SPACING AND CONNECTION DETAILS INCLUDING WEB STIFFENERS, BRACING SYSTEM, BLOCKING REQUIREMENTS, LIVE LOAD AND TOTAL LOAD DEFLECTIONS, BEARING REQUIREMENTS, BEARING ATTACHMENT, LAMINATION METHODS FOR MULTIPLE PLY MEMBERS, HANGER SCHEDULE, LOAD TRANSFER DETAILS AND INSTALLATION PROCEDURE

MAXIMUM TOTAL LOAD DEFLECTION IS TO BE L/180.

- 6. THE SHOP DRAWINGS AND CALCULATION SHEETS ARE TO INCLUDE; DESIGN LOADS, MEMBER LAYOUT, SIZE, SPACING, STRESSES AND CONNECTION DETAILS INCLUDING WEB STIFFENERS, BRACING SYSTEM, BLOCKING REQUIREMENTS, LIVE LOAD AND TOTAL LOAD DEFLECTIONS, BEARING REQUIREMENTS, BEARING ATTACHMENT, LAMINATION METHODS FOR MULTIPLE PLY MEMBERS, HANGER SCHEDULE, LOAD TRANSFER DETAILS AND INSTALLATION PROCEDURE.
- 7. THE DRAWINGS ARE TO BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN YUKON CERTIFYING SUPPLIED SCL AND I-JOISTS ARE CORRECT FOR SPECIFIED DESIGN LOADS AND THAT THE I-JOISTS AND COMPOSITE LUMBER CONFORM TO N.B.C. AND C.S.A. STANDARDS.
- 6. THE SCL/I-JOIST MANUFACTURER IS TO SUPPLY ALL CONNECTION HARDWARE AND TIE-DOWNS, AND TO PROVIDE BEARING DETAILS WHERE REQUIRED BEARING AREA EXCEEDS THE ACTUAL BEARING AREA AVAILIBLE. ANY SPECIAL FASTENERS (OTHER THAN FASTENERS COMMONLY FOUND ON CONSTRUCTION SITES) TO BE SUPPLIED BY SCL/I-JOIST MANUFACTURER.
- 7. GENERAL CONTRACTOR TO COORDINATE ALL MECHANICAL LOADS, DUCT OPENINGS, CURB SIZES, AND ROOF TOP UNIT LOCATIONS WITH THE SCL AND WOOD I-JOIST FABRICATOR AND MECHANICAL CONTRACTOR.
- 8. FIELD DRILLING, CUTTING, NOTCHING OR OTHER MODIFICATIONS TO THE MEMBERS IS NOT PERMITTED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE FABRICATOR'S SPECIALTY PROFESSIONAL ENGINEER. COPIES OF ANY MODIFICATION APPROVALS TO BE SUBMITTED TO PROJECT ENGINEER.
- 9. STRUCTURAL COMPOSITE LUMBER IS TO CONFORM TO:
 - PARALLEL STRAND LUMBER (PSL) = 2.0E LAMINATED VENEER LUMBER (LVL) = 2.0E LAMINATED STRAND LUMBER (LSL) = 1.3E, 1.5E, 1.7E AND 1.9E

STRUCTURAL STEEL

- 1. STRUCTURAL STEEL IS TO CONFORM TO CSA G40.21 WITH THE FOLLOWING GRADES:
 - W SHAPE BEAMS AND COLUMNS 350W CHANNELS AND ANGLES - 300W
 - HSS SECTIONS, CLASS C - 350W BARS AND PLATES - 300W
- 2. SUPPLY MISCELLANEOUS ITEMS INCLUDING ALL ANCHOR BOLTS, EXPANSION BOLTS, AND OTHER MEANS OF ANCHORAGE NOT SPECIFICALLY CALLED FOR ELSEWHERE. SUPPLY ALL ANGLES, BRACKETS, CLEATS, PLATES, BEAMS, CHANNELS, NUTS, BOLTS AND OTHER ANCILLARY FASTENING NOT SPECIFIED ELSEWHERE.
- 3. DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL STEEL TO CONFORM TO THE CSA S16-14.
- THE REQUIREMENTS OF CSA W47.1 DIVISION 1 OR 2.1.

4. WELDING TO CONFORM TO CSA W-59 BY FABRICATORS CERTIFIED BY CANADIAN WELDING BUREAU (CWB) TO

- 5. FIELD CONNECTIONS ARE TO BE HIGH STRENGTH, STEEL BOLTED CONNECTIONS EXCEPT WHERE DETAILED OTHERWISE ON DRAWINGS.
- 6. PREPARE STEEL SURFACES FOR PAINTING TO SSPC-SP3 FOR ALL STEEL AND APPLY MINIMUM (1) COAT OF SHOP PRIMER (COLOR TO BE AS SPECIFIED BY OWNER).
- 7. BOLT GRADE: ASTM F3125 GRADE A325. MINIMUM 19mm DIAMETER AND GALVANIZED IF EXPOSED TO WEATHER.
- 8. GRATING TO BE TRU-WELD TYP19-4 STEEL GRATING WITH 38mm x 4.76mm BEARING BARS BY NUCOR GRATING OR APPROVAL EQUAL 9. THE STEEL FABRICATOR IS TO SUBMIT SHOP DRAWINGS AND STEEL LAYOUT PLANS IN ACCORDANCE WITH THE

BUILDING CONTRACT SPECIFICATIONS TO THE ENGINEER FOR REVIEW MINIMUM 2 WEEKS PRIOR TO FABRICATION. THE SHOP DRAWINGS ARE TO BE IN THE SAME UNITS OF MEASURE (IMPERIAL OR METRIC) AS

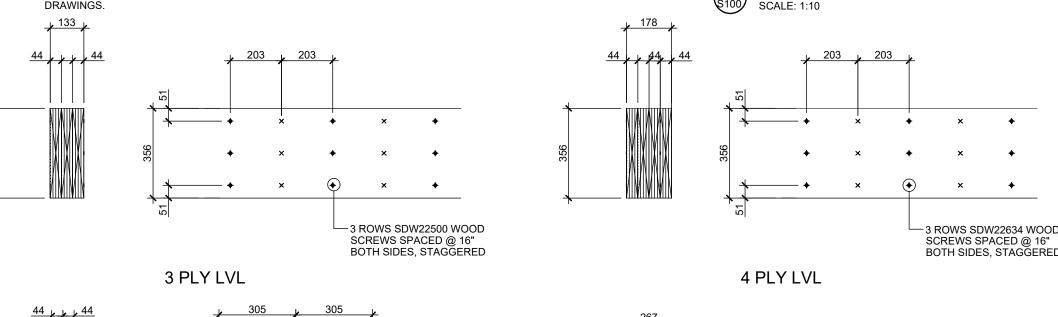
- 10. THE SHOP DRAWINGS ARE TO INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: PROJECT NAME, PROJECT ADDRESS, DESIGN LOADS, DESIGN METHODS, LIVE LOAD AND TOTAL LOAD
- REQUIREMENTS, BEARING ATTACHMENT, MEMBER CONNECTION DETAILS AND INSTALLATION PROCEDURE. 11. THE SHOP DRAWINGS ARE TO BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN YUKON CERTIFYING THAT THE STEEL CONNECTIONS ARE CORRECT FOR THE SPECIFIED DESIGN LOADS.

DEFLECTIONS, MEMBER LAYOUT, MEMBER SIZES, MATERIAL GRADE, BRACING SYSTEMS, BEARING

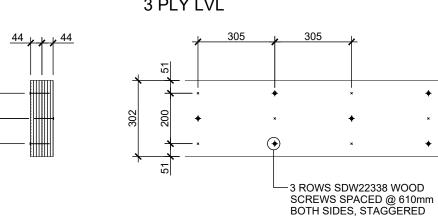
- 12. BOLT HOLES DIAMETER(EXCEPT FOR HILTI ANCHORS) TO BE 2mm LARGER THAN BOLT Ø.
- UNO ON DETAILS

WELD) SPACING.

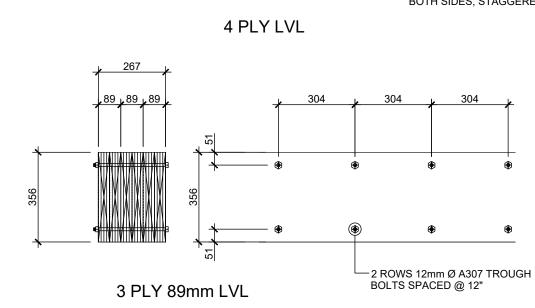
- 14. USE HILIT GRATING CLIPS OR FIELD WELD GRATING DOWN TO FRAME @600mm MAX HOLD DOWN (CLIPS OR
- 15. INSTALL ALL STRUCTURAL STEEL BOLTS USING TURN-OF-NUT INSTALL PROCEDURE AS PER CL.23.7.2 OF CSA STANDARD S16
- 16. BASE PLATE ANCHOR BOLTS ARE TO BE AS SPECIFIED AND APPROVED BY THE METAL BUILDING SUPPLIER.
- 17. TIMBER CONNECTION BOLTS ARE TO CONFORM TO MINIMUM A307 TO DIAMETERS AND LENGTHS INDICATED ON



MULTI-PLY BEAM DETAIL



2 PLY LVL



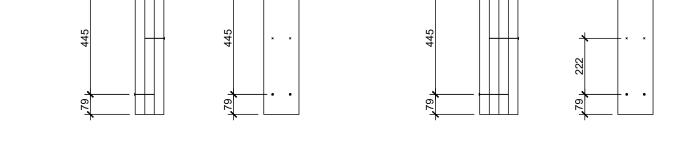
VARIES

POST BASE PLATE DETAIL

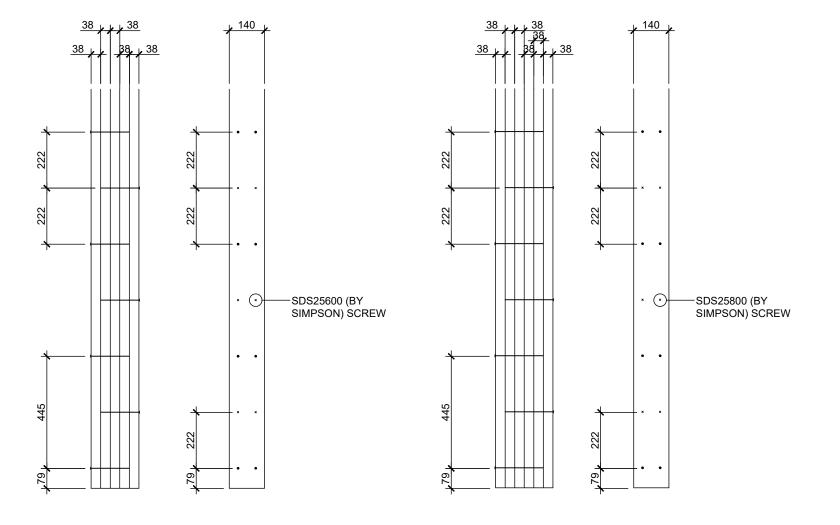
→ 3" NAIL

2 PLY

√ 3" NAIL *) SDS25412 (BY SIMPSON) SCREW

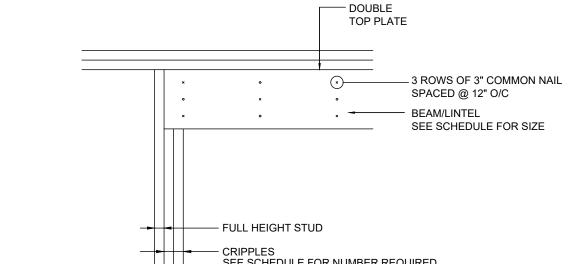


4 PLY



5 PLY 6 PLY 38x140 BUILT UP POST NAILING PATTERN

3 PLY



SEE SCHEDULE FOR NUMBER REQUIRED TYPICAL HEADER/CRIPPLE DETAIL

STRUCTURAL DRAWING LIST

S100	GENERAL NOTES
S201	FOOTING LAYOUT AND DETAILS
S202	SLAB SAWCUT LAYOUT AND DETAILS
S301	MAIN FLOOR BEAM LAYOUT AND DETAILS
S401	FLOOR JOISTS LAYOUT AND DETAILS
S501	ROOF FRAME LAYOUT AND DETAILS
S601	SHEAR WALL AND BUILT UP COLUMN LAYOUT
S602	SHEAR WALL DETAILS
S701	BUILDING SECTION

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ISSUED FOR CONSTRUCTION	sw	24/04/2023

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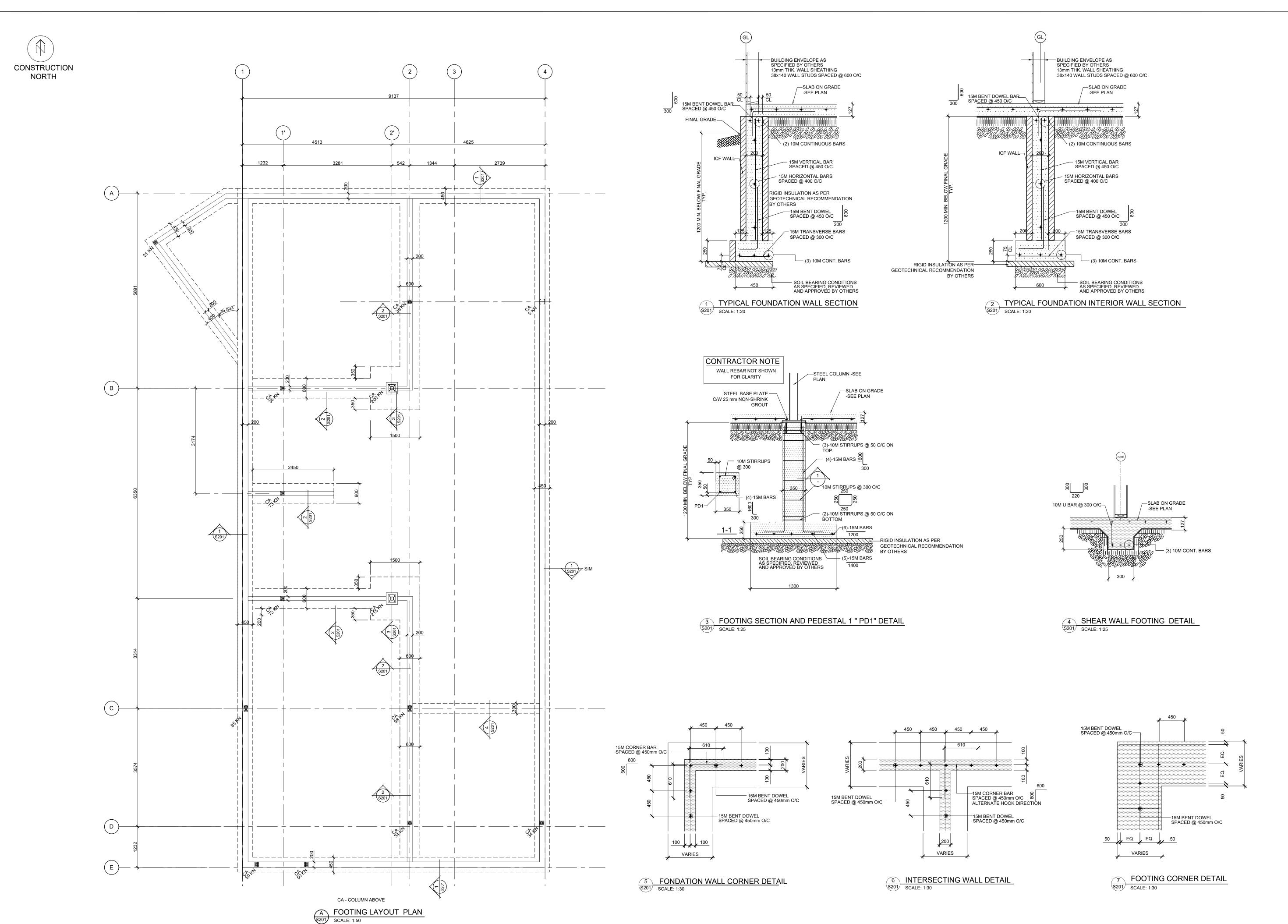
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GENERAL NOTES





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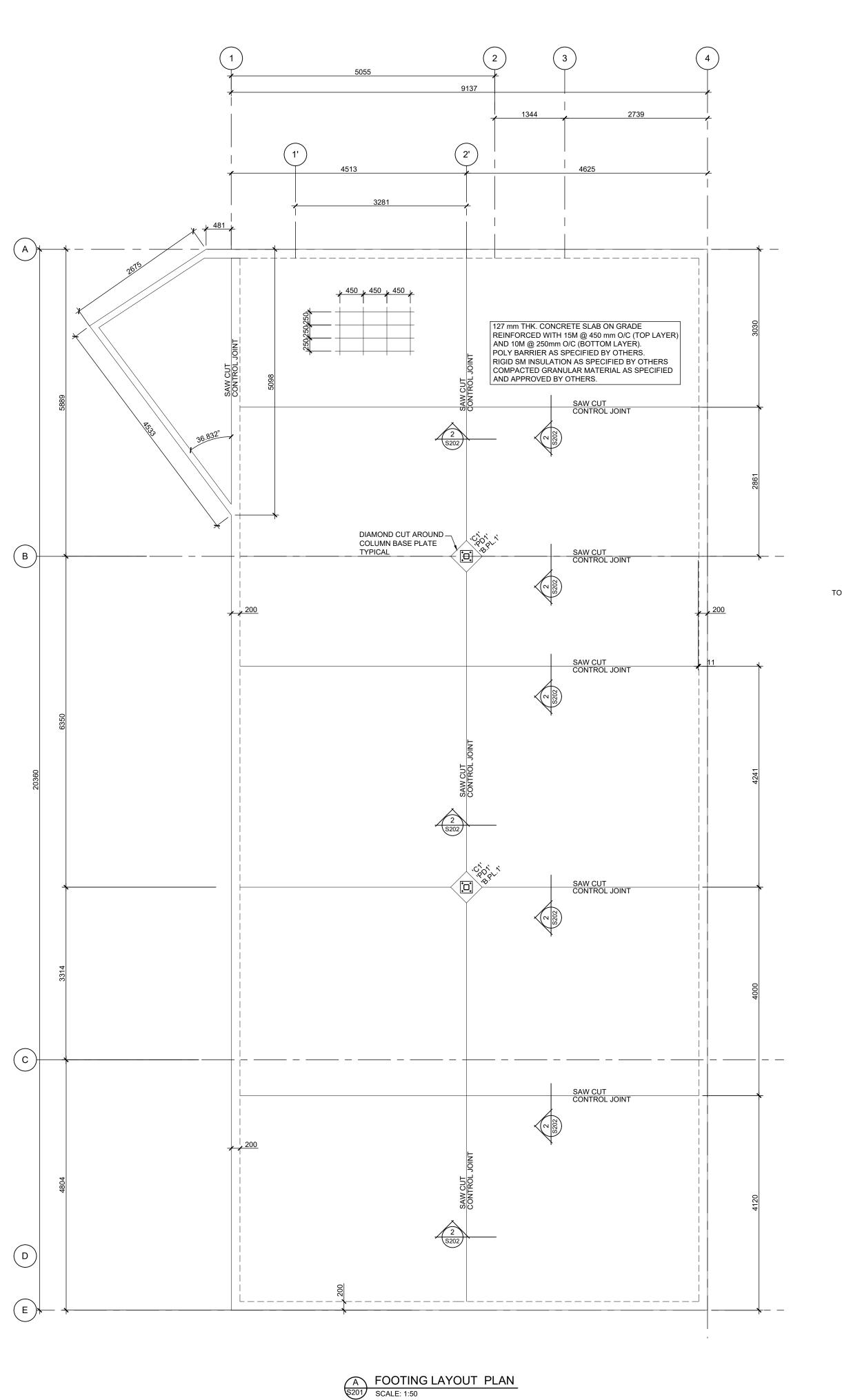
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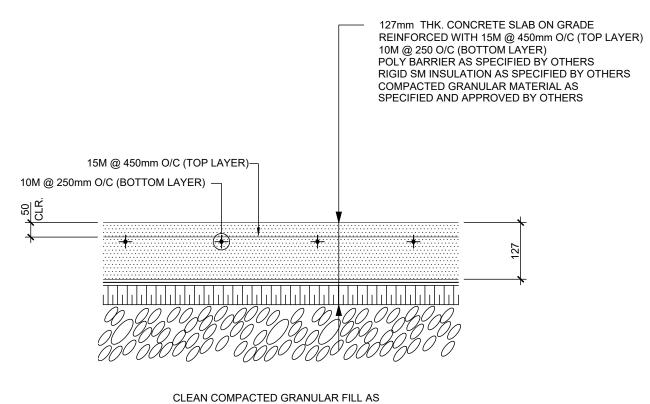
client ARCTIC CANADA CONSTRUCTION LTD.

FOOTING LAYOUT AND **DETAILS**

S201 21-100

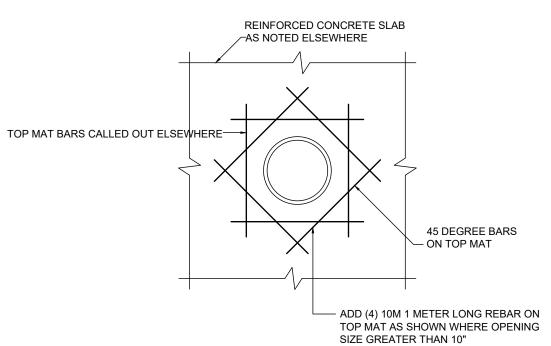




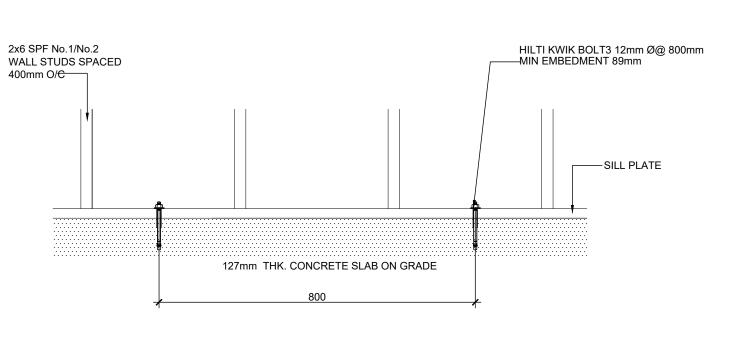


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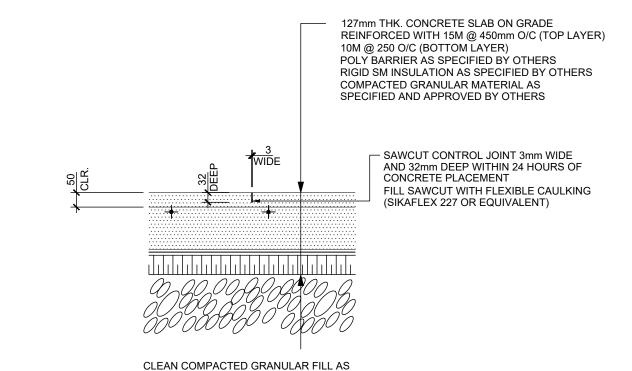
1 TYPICAL CONCRETE SLAB SECTION S202 SCALE: 1:10



3 TYPICAL SLAB OPENING DETAIL
N.T.C.



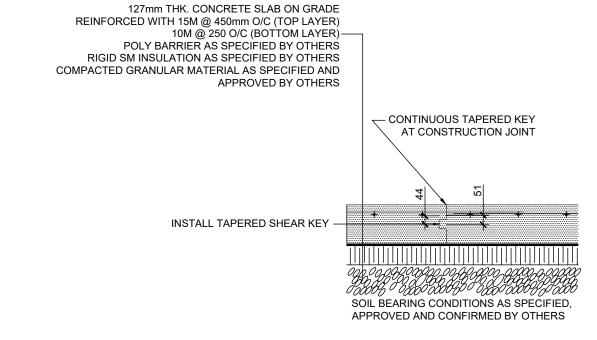
5 SILL PLATE ANCHER DETAIL
S202 SCALE: 1:15



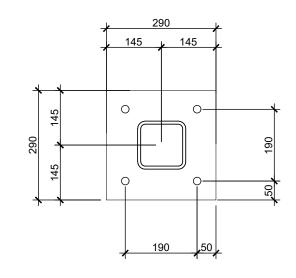
2 SAWCUT CONTROL JOINT DETAIL

SPECIFIED AND APPROVED BY OTHERS

S202 SCALE: 1:10



4 CONSTRUCTION JOINT DETAIL
S202 SCALE: 1:20



BASE PLATE DETAIL B.PL.1 19mm THICK BASE PLATE C/W 4-19mmØ A. BOLTS DRILLED AND EPOXIED USING HILTI HIT HY200 ADHESIVE, PROVIDE MIN. 150mm EMBEDMENT ON 25mm NON-SHRINK GROUT. BASE PLATE HOLE DIAMETER 6mm GREATER THAN ANCHOR ROD DIAMETER.

PEDESTAL SCHEDULE		
TYPE	DETAIL NUMBER	
PEDESTAL "PD1"	SEE DETAIL 3	

	STEEL COLUMN SCHEDULE	
TYPE	DESCRIPTION	COMMENTS
C1	HSS 127x127x6.4	350W OR A500 STEEL



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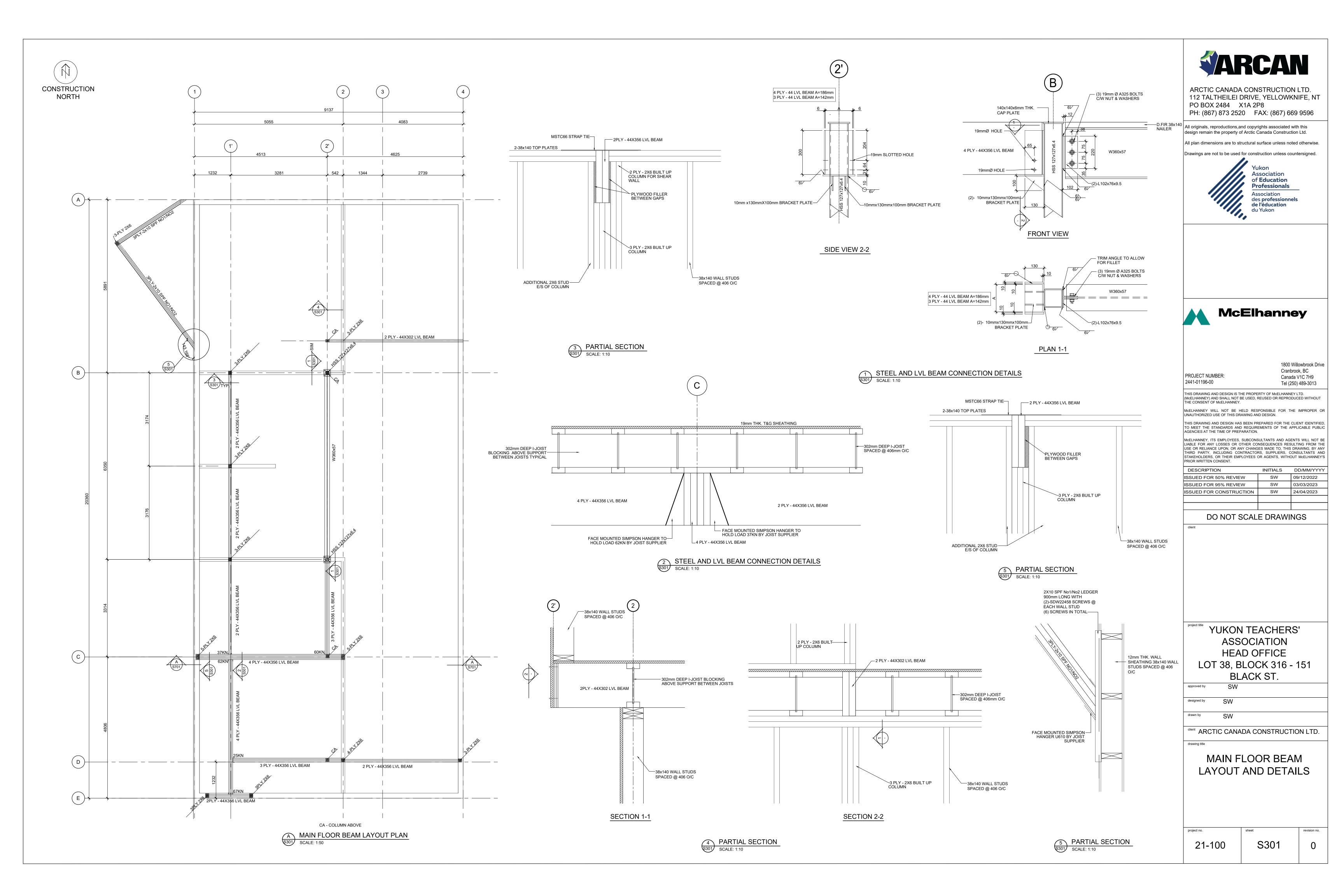
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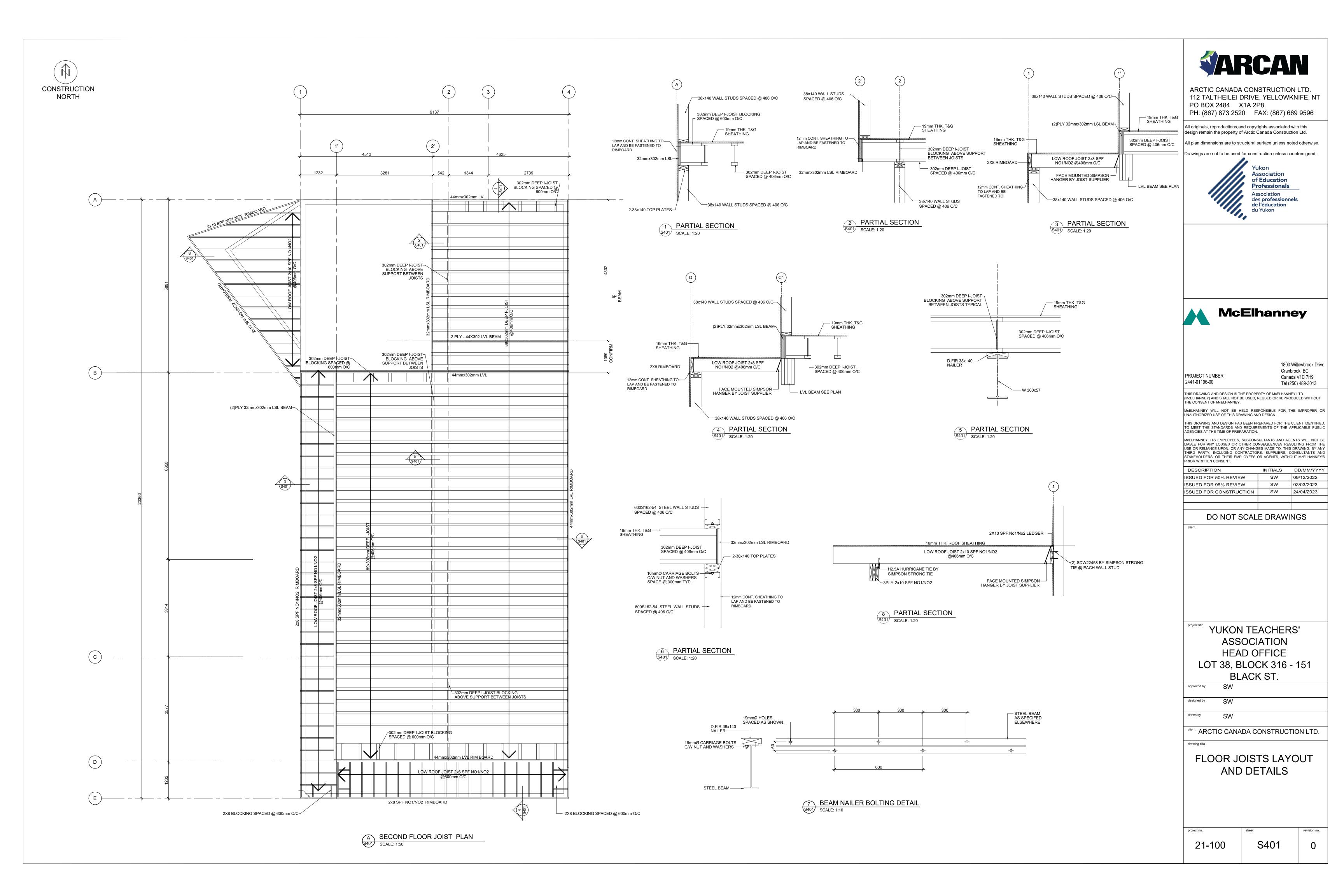
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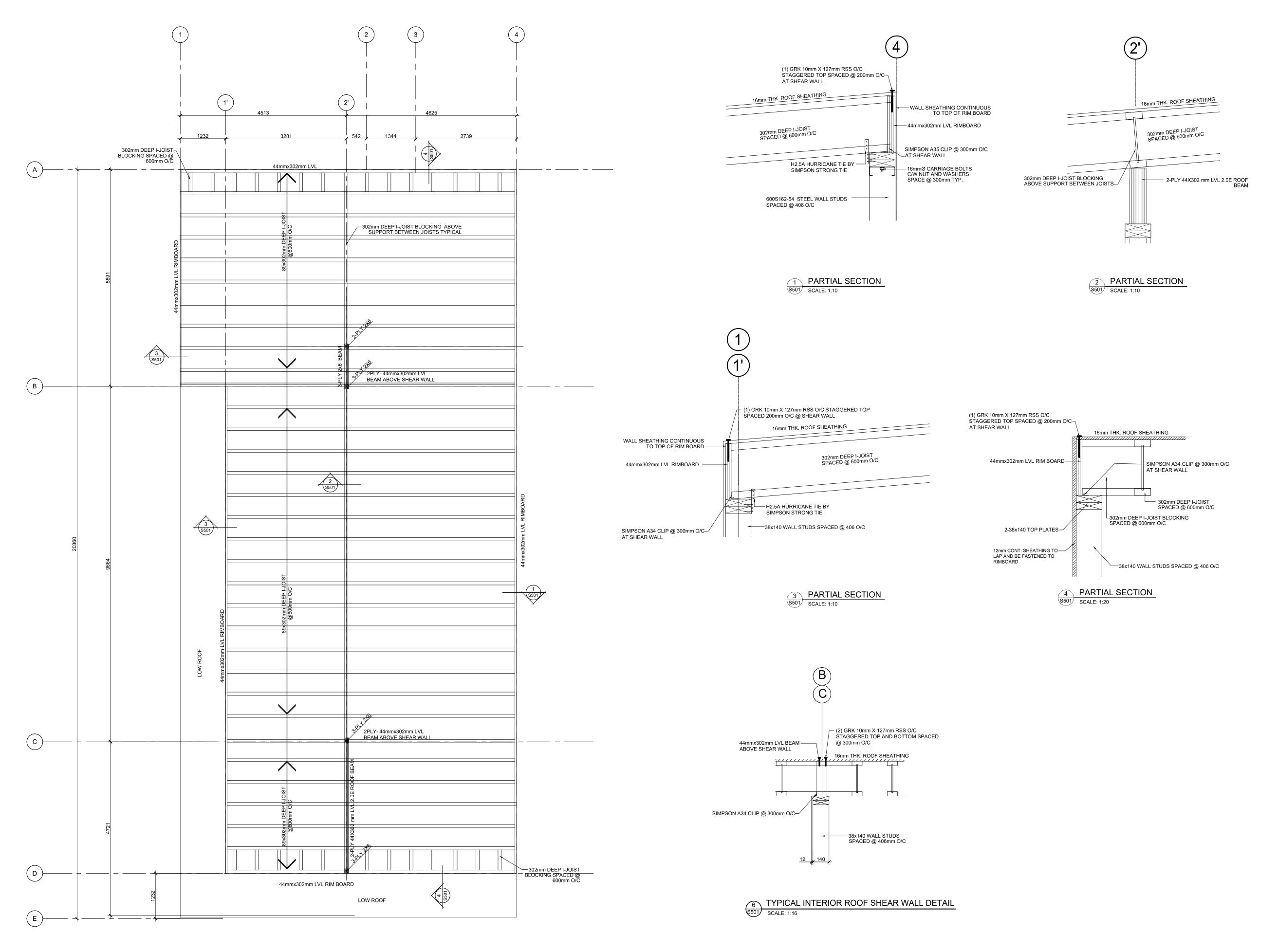
SLAB SAWCUT LAYOUT AND DETAILS

S202 21-100









A ROOF FRAMING PLAN SCALE: 1:50



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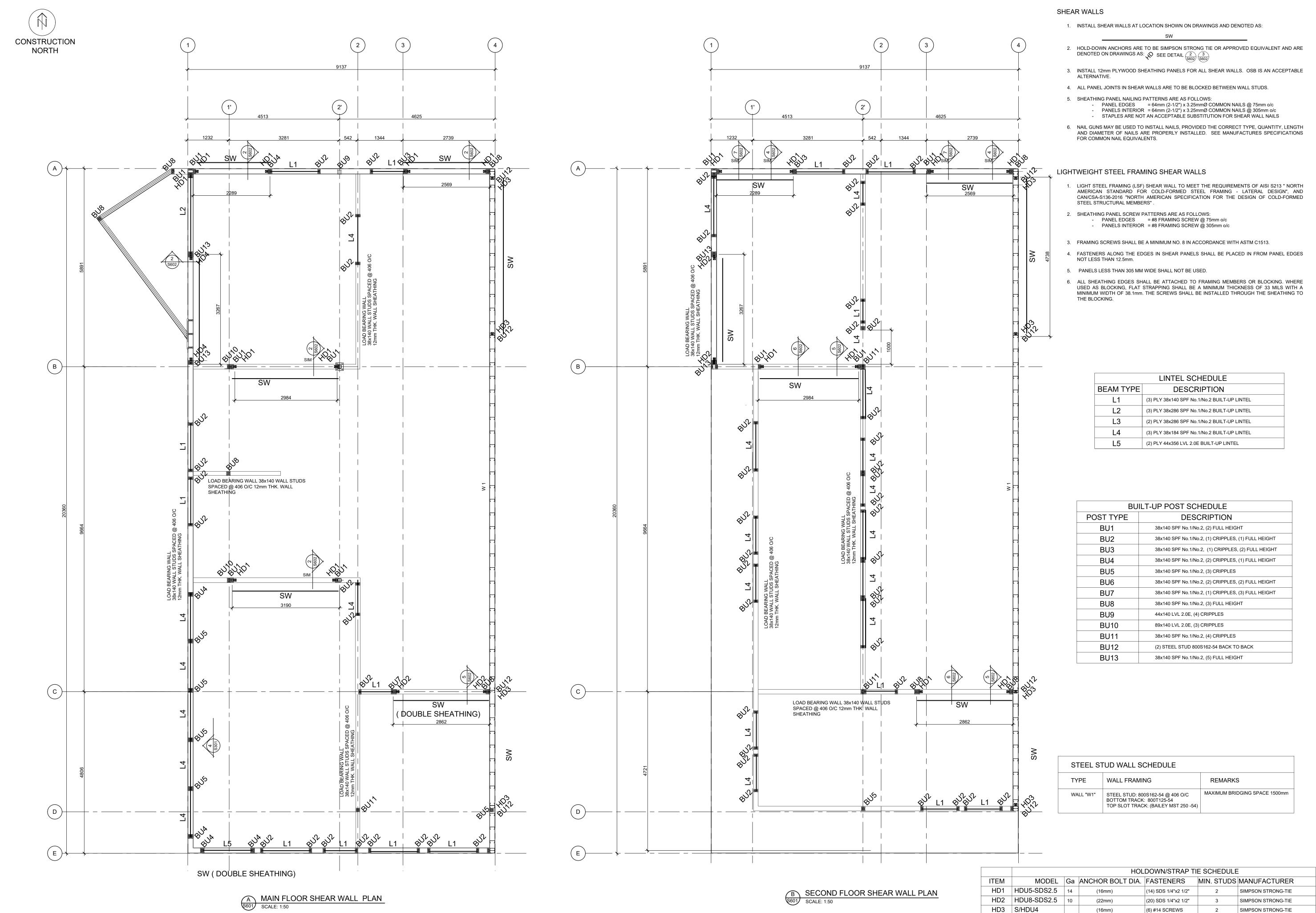
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ROOF FRAME LAYOUT AND DETAILS

project no. sheet revision 21-100 S501 (





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HD4 | HDU11-SDS2.5 | 10

(25mm)

(30) SDS 1/4"x2 1/2"

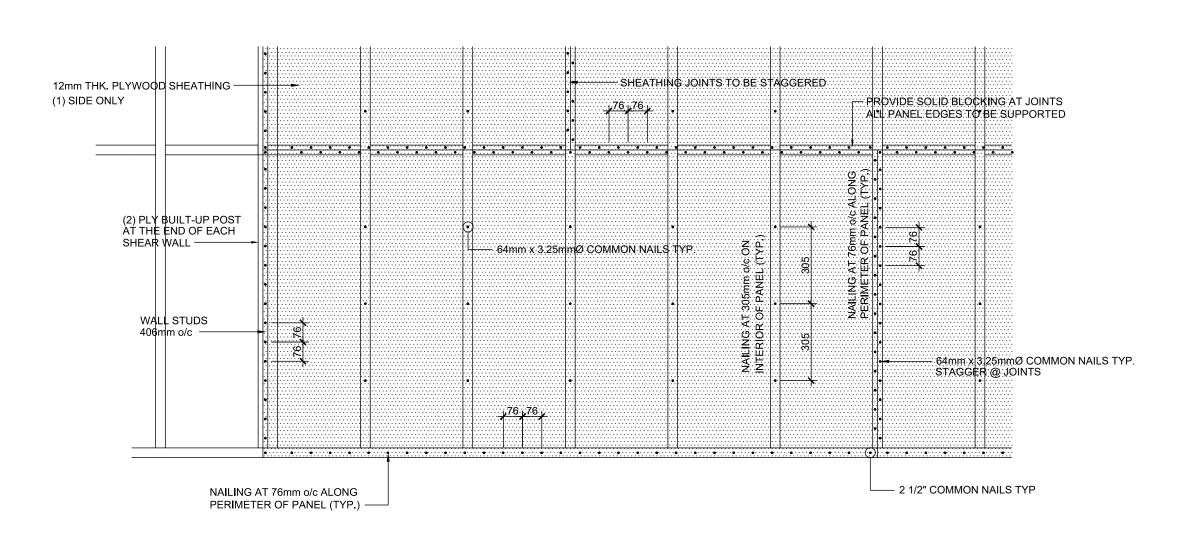
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SHEAR WALL AND BUILT UP COLUMN LAYOUT

21–100 Sheet revision no. 0

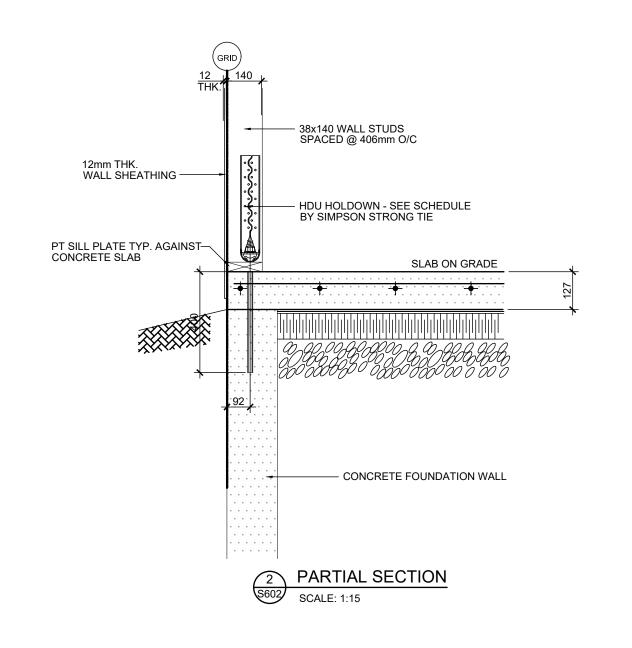


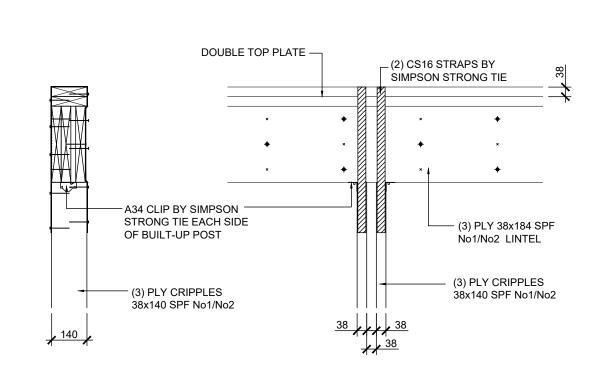
1 TYPICAL SHEAR WALL NAILING PATTERN

4 HOLDOWN DETAIL

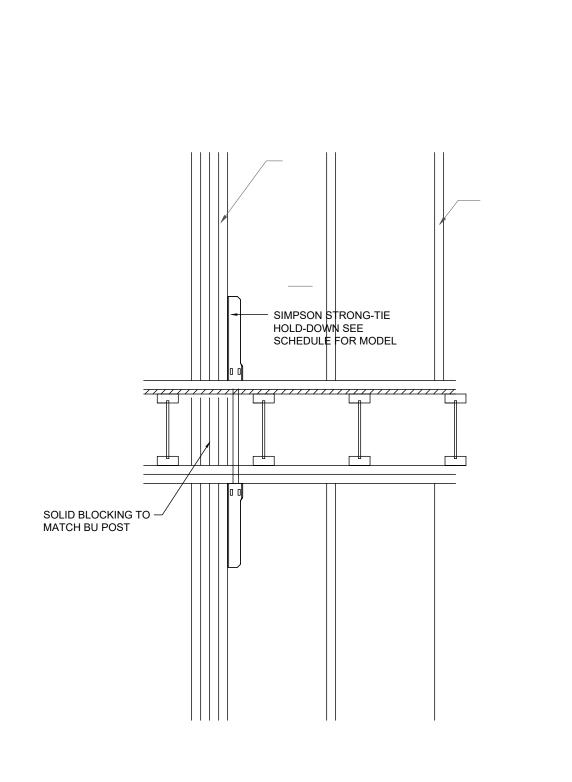
S602 SCALE: 1:16

S602 SCALE: 1:15

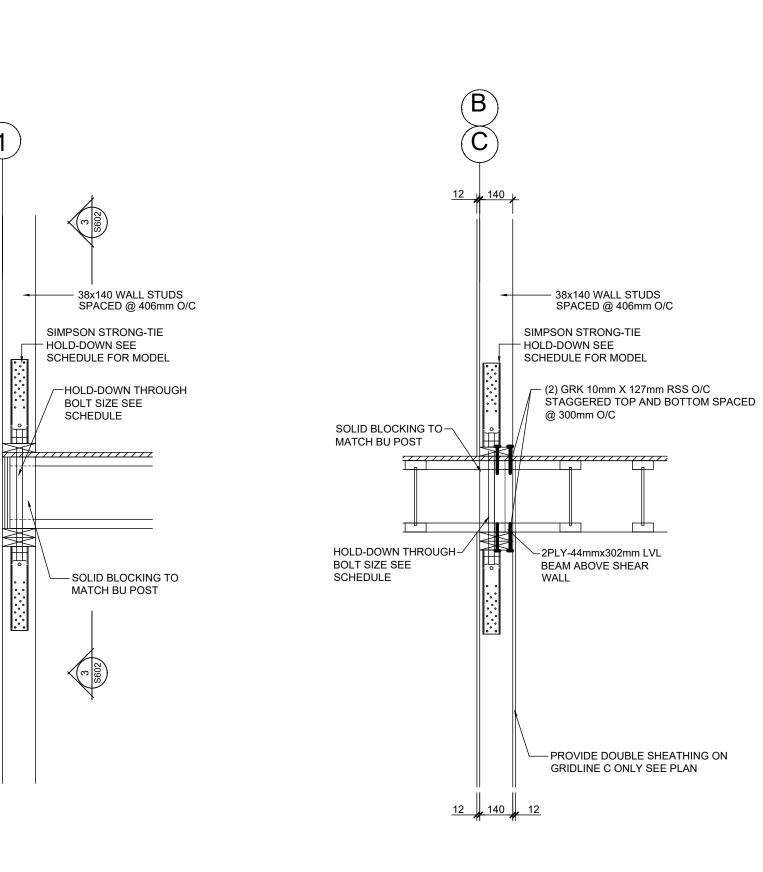




5 TYPICAL BU5 DETAIL
S602 SCALE: 1:15

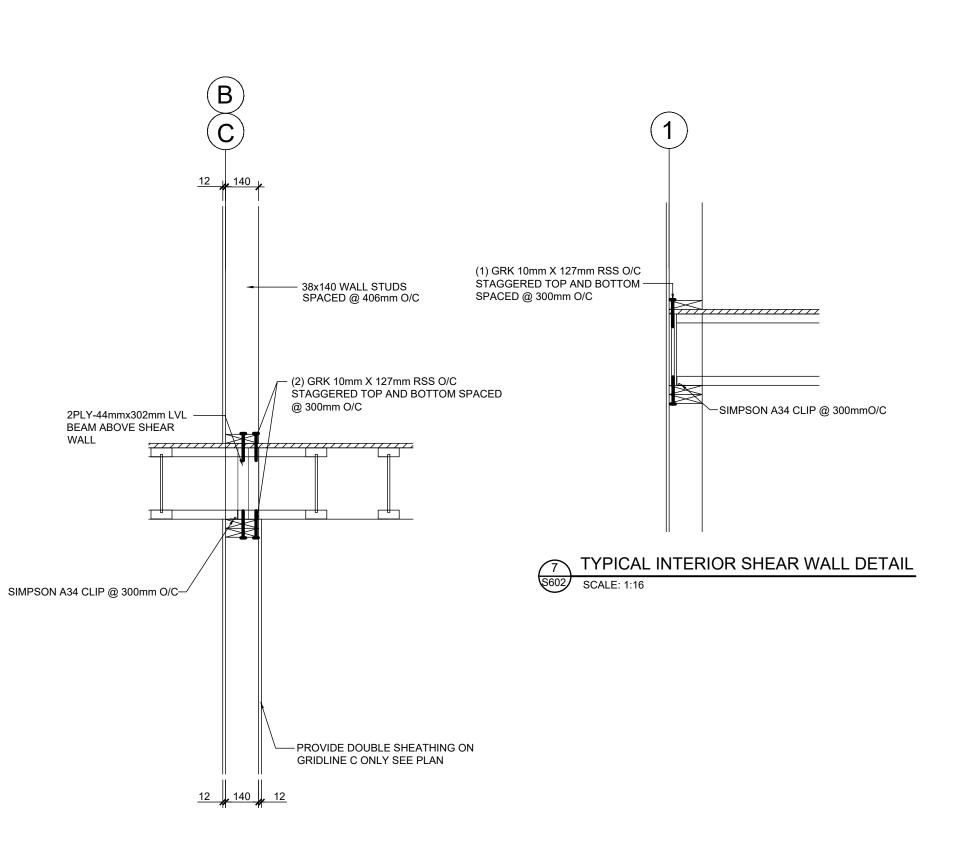


3 EXTERIOR WALL HOLD DOWN DETAIL S602 SCALE: 1:16



S602 SCALE: 1:16

TYPICAL INTERIOR SHEAR WALL HOLD DOWN DETAIL



TYPICAL INTERIOR SHEAR WALL DETAIL
Scale: 1:16



ARCTIC CANADA CONSTRUCTION LTD. 112 TALTHEILEI DRIVE, YELLOWKNIFE, NT PO BOX 2484 X1A 2P8 PH: (867) 873 2520 FAX: (867) 669 9596

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Cranbrook, BC
PROJECT NUMBER: Canada V1C 7H9
2441-01196-00 Tel (250) 489-3013

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DESCRIPTION	INITIALS	DD/MM/YYYY
ISSUED FOR 50% REVIEW	sw	09/12/2022
ISSUED FOR 95% REVIEW	sw	03/03/2023
ISSUED FOR CONSTRUCTION	sw	24/04/2023
		+

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project title YUKON TEACHERS'

HEAD OFFICE LOT 38, BLOCK 316 - 151 BLACK ST.

ASSOCIATION

approved by SW

designed by SW

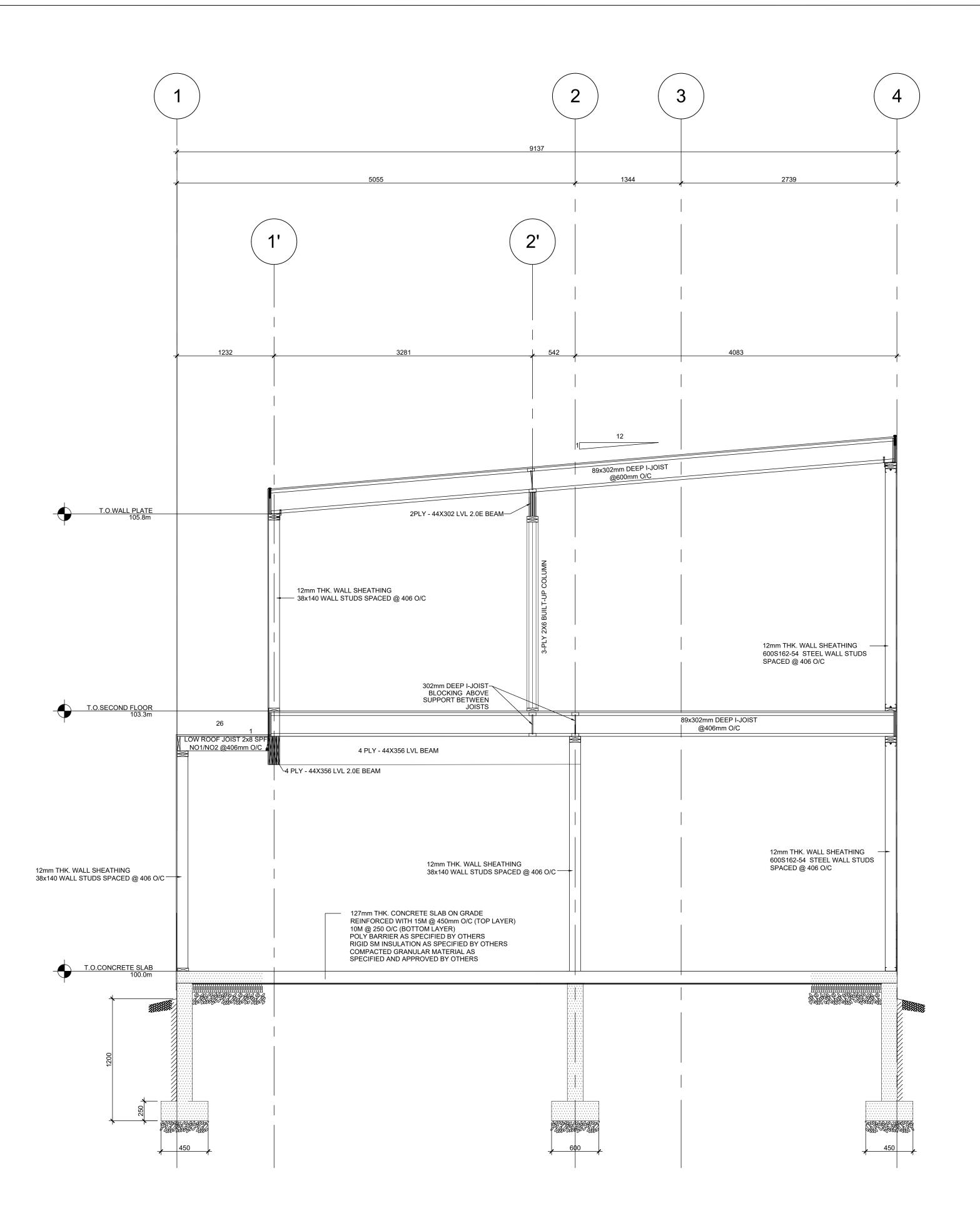
drawn by SW

client ARCTIC CANADA CONSTRUCTION LTD.

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SHEAR WALL DETAILS

project no. sheet revision	
	pject no.
21-100 S602 C	21-100

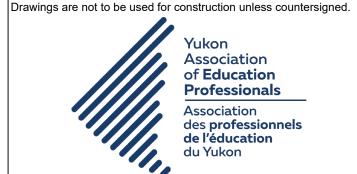




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1800 Willowbrook Drive Cranbrook, BC

PROJECT NUMBER: 2441-01196-00

2441-01196-00 Tel (250) 489-3013

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DO NOT SCALE DRAWINGS

client

YUKON TEACHERS'
ASSOCIATION
HEAD OFFICE
LOT 38, BLOCK 316 - 151

BLACK ST.

designed by

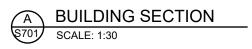
drawn by SW

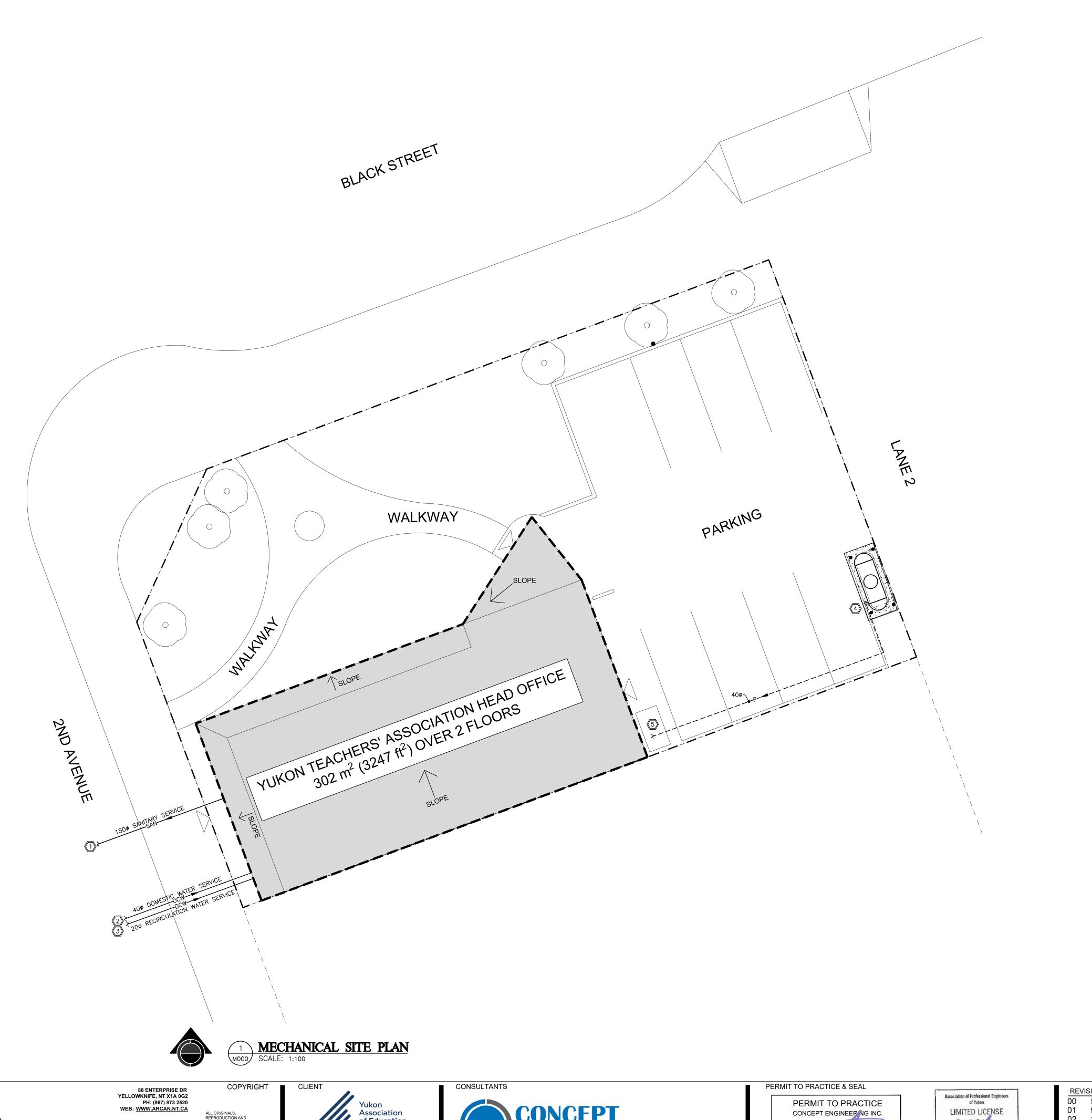
client ARCTIC CANADA CONSTRUCTION LTD.

drawing title

BUILDING SECTION

21-100 S701 revis





KEY NOTES

- 150¢ SANITARY SERVICE. REFER TO CIVIL DRAWINGS BY OTHERS.
- 400 DOMESTIC WATER SERVICE. REFER TO CIVIL DRAWINGS BY OTHERS.
- 200 RECIRCULATION WATER SERVICE. REFER TO CIVIL DRAWINGS BY OTHERS.
- 400 PROPANE LINE TO PROPANE STORAGE TANK. TANK AND UNDERGROUND LINE TO BE SUPPLIED AND INSTALLED BY PROPANE SUPPLIER.
- 40¢ UNDERGROUND PROPANE LINE TO BUILDING. REFER TO DRAWING M200 FOR CONTINUATION.

_		
		DRAWING LEGEND
	М000	MECHANICAL SITE PLAN
	M100	FOUNDATION PLAN
	M200	PLUMBING PLANS
	м300	VENTILATION PLANS
	M400	ENLARGED MECHANICAL ROOM PLAN
	М500	MECHANICAL SCHEDULES
	M501	MECHANICAL SPECIFICATION

DCW	DOMESTIC COLD WATER
———DHW———	DOMESTIC HOT WATER
———DHWR———	DOMESTIC HOT WATER RECIRC.
P	PROPANE
———HGS ———	HEATING GLYCOL SUPPLY
	HEATING GLYCOL RETURN
	FLOW DIRECTION
	ELBOW RISING
ψ	TAKE-OFF
	ELBOW DROPPING
<u></u> ₩	SHUT-OFF VALVE
	SHUT-OFF VALVE - VERTICAL MOUNT
<u></u> ₩	FLOW BALANCING VALVE
	CHECK VALVE
	PLUG VALVE
<u></u> ————————————————————————————————————	2-WAY CONTROL VALVE
	MECHANICAL PRESSURE REDUCING VALVE
	RELIEF VALVE
	UNION OR FLANGE
	AUTOMATIC AIR VENT
<u> </u>	STRAINER
	CAP OR PLUG
	PUMP
¢ -Ico	CLEANOUT
#→HB #→CA	HOSE BIBB/COMPRESSED AIR OUTLET
₱ FD YDRAIN	FLOOR DRAIN (PLAN)/FLOOR DRAIN (SCHEMATIC)
國HD ⊕RD	HUB DRAIN/ROOF DRAIN
	REDUCED PRESSURE BACKFLOW ASSEMBLY
7	SANITARY VENT CAP
ψ	P-TRAP
	SUPPLY DUCT (UP AND DOWN)
	· · · · · · · · · · · · · · · · · · ·
	RETURN DUCT (UP AND DOWN)
	EXHAUST DUCT (UP AND DOWN)
	OUTDOOR AIR DUCT (UP AND DOWN)
	ROUND DUCT (UP AND DOWN)
-	FLEXIBLE DUCT CONNECTION
<u> </u>	BALANCING DAMPER
\$	MOTORIZED DAMPER
├	SUPPLY OUTLET (WALL TYPE)
	RETURN OR EXHAUST INLET (WALL TYPE)
	, , ,
	SQUARE DIFFUSER / ROUND DIFFUSER
	FIRE DAMPER / SMOKE DAMPER / BACKDRAFT DAMPER
<u>-</u>	TURNING VANES
**********	ACOUSTIC LINED DUCTWORK
① ① ⊕	NEW THERMOSTAT / THERMOSTAT C/W GUARD / HUMIDISTAT
\$	SWITCH
· ·	
€ (TYPE)	PLUMBING FIXTURE TAG (TYPE NOTED)
>	EQUIPMENT NUMBER
S-1 TYPE (200x100) SIZE (mm)	AIR OUTLET OR INLET

MECHANICAL LEGEND

SANITARY DRAIN

SYMBOL

-----SAN-----

STORM DRAIN

______ VENT PIPE

DESCRIPTION

		TTV COLIEDIU	
r	PROPANE UTIL		E E LOAD
TAG	DESCRIPTION	MBH	(kW)
B-1	BOILER	400	(117)
B-2	BOILER	400	(117)
TOTAL		800	(234)

NOTES:

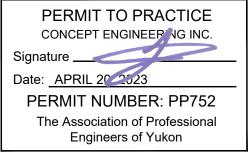
1. PRIOR TO COMMENCING INSTALLATION WITHIN THE BUILDING, VERIFY THE LOCATION AND INVERT ELEVATIONS OF SERVICE LINES INCLUDING SANITARY SEWER, STORM SEWER, WATER MAINS, AND PROPANE MAINS WITH AUTHORITIES HAVING JURISDICTION TO ENSURE SERVICES CAN BE INSTALLED AS SHOWN. 2. MINIMUM DISTANCE BETWEEN PROPANE LINE AND UNDERGROUND SERVICES: 6'-6"

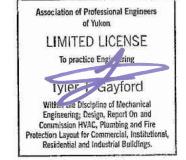
MAXIMUM DISTANCE BETWEEN INCOMING PROPANE LINE ABOVE MECHANICAL ROOM FLOOR: 6'

ARCAN









ı	REV	ISION	DESCRIPTION	BY	DD/MMM/Y
	00	50% F	REVIEW	TL	2022-12
	01	95% F	REVIEW	TL	2023-02
	02	100%	REVIEW	TL	2023-03
	03	CONS	TRUCTION	TTG	2023-04
ı	DRAW	/N BY	CHECKED	BY	

TTG

YUKON TEACHERS' ASSOCIATION HEAD OFFICE

LOT 38, BLOCK 316 - 151 BLACK ST

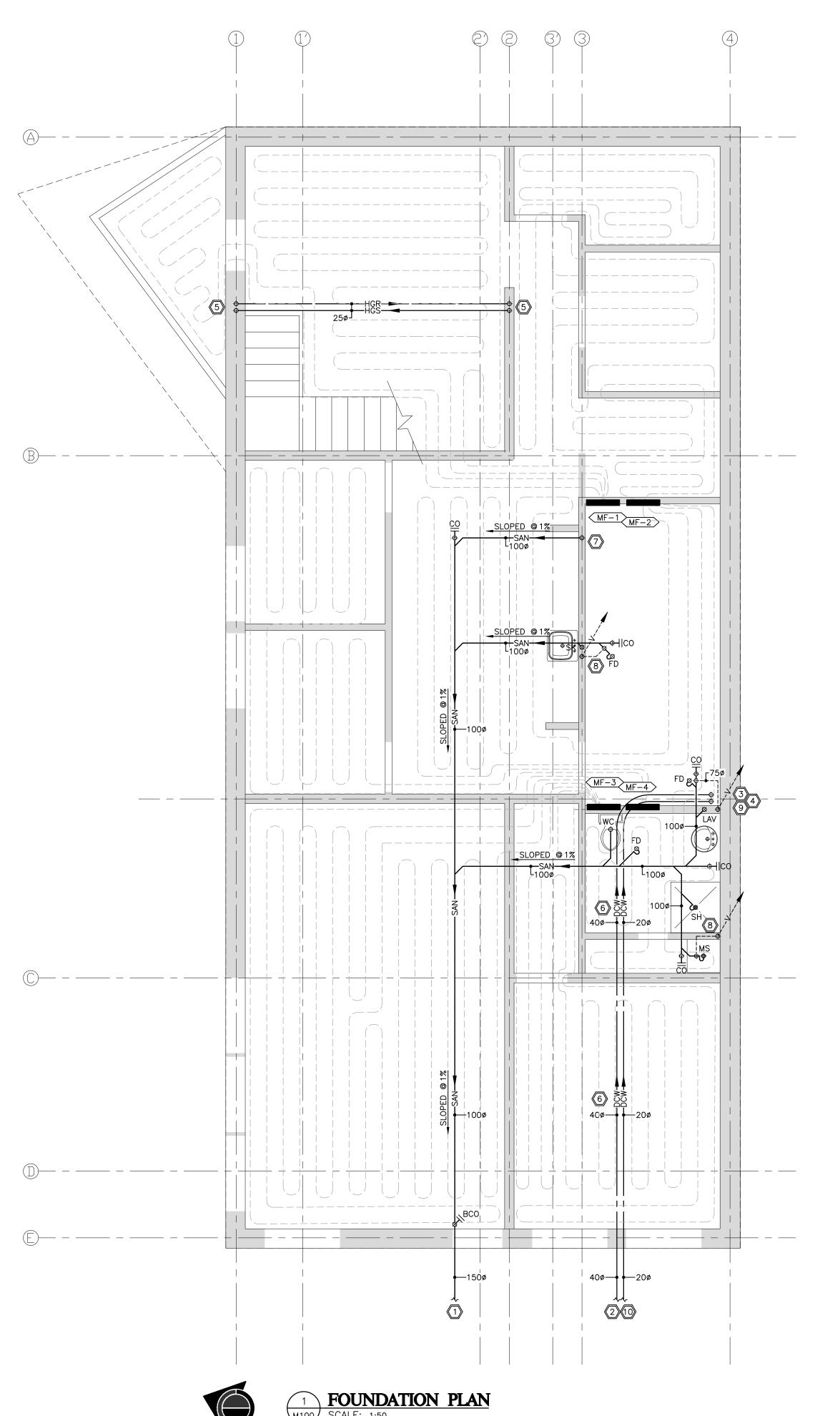
MECHANICAL SITE PLAN

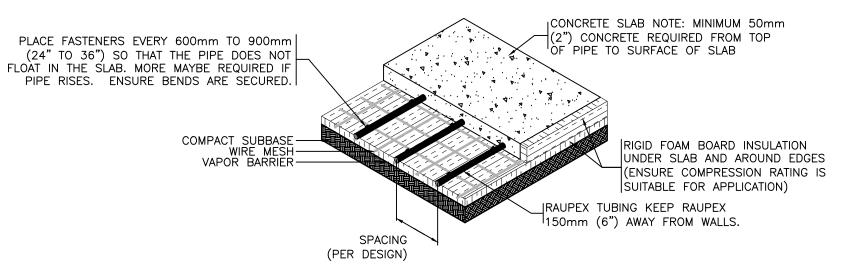
M000

DWG No

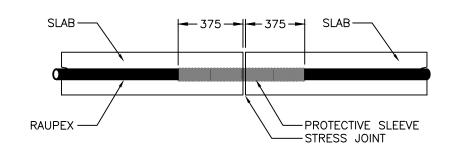
DATE 2023-04-19

REVISION PROJECT No 22037 02

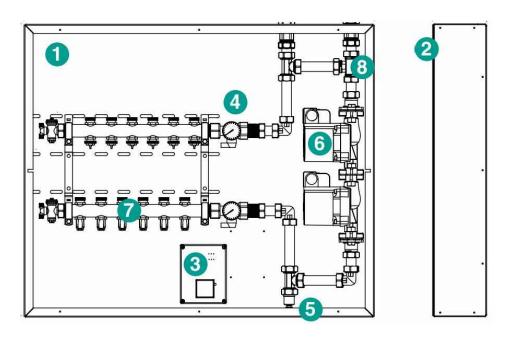




SLAB ON GRADE NYLON PIPE TIES DETAIL



PROTECTIVE SLEEVE IN COLD AND/OR EXPANSION JOINTS SCALE: N.T.S.



STAINLESS STEEL BACKPLATE LOCKABLE STAINLESS STEEL COVER TAMAS CONTROL BOX WITH CONTROL TEMPERATURE GAUGE AIR VENT SYSTEM PUMP STAINLESS STEEL HEATING MANIFOLD 3 WAY MIXING VALVE NOTE: FOR REFERENCE PURPOSES. CONTROLS CONTRACTOR MAY BE PROVIDING THEIR OWN CONTROLS COMPONENTS. MECHANICAL TO COORDINATE WITH CONTROLS AND HYDRONICS SUPPLIER AS REQUIRED.



KEY NOTES

- 150¢ SANITARY SERVICE. REFER TO CIVIL DRAWINGS BY OTHERS.
- 400 DOMESTIC WATER SERVICE. REFER TO CIVIL DRAWINGS BY OTHERS.
- 3 400 DOMESTIC WATER SERVICE UP TO METER. REFER TO DRAWING M400.
- $|\langle 4 \rangle\rangle$ 75ø PLUMBING VENT UP. REFER TO DRAWING M200.
- 250 HEATING GLYCOL SUPPLY AND RETURN LINES UP. REFER TO DRAWING M200.
- 400 DOMESTIC COLD WATER SERVICE AND 200 RECIRCULATION WATER SERVICE LINES TO BE SOFT COPPER OR PEX WITH NO JOINTS RUNNING UNDER THE BUILDING.
- $|\langle\!\langle 7 \rangle\!\rangle$ 1000 SANITARY LINE FROM ABOVE. REFER TO DRAWING M200.
- 8 500 PLUMBING VENT UP. REFER TO DRAWING M200.

1. C/W PROVENT TRAP GUARD MODEL# TG-34IP.

2. PLUMBING VENT PIPING RUN BELOW SLAB TO BE A MINIMUM OF 500.

- $|\langle 9 \rangle\rangle$ 200 RECIRCULATION WATER SERVICE UP TO METER. REFER TO DRAWING M400.
- 200 RECIRCULATION WATER SERVICE. REFER TO CIVIL DRAWINGS BY OTHERS.

	CONN	IECTIONS 7	TABLE	
FIXTURE	DCW	DHW	SAN	VENT
(WC)	15ø	_	100ø	40ø
UR	20ø	-	100ø	40ø
SK	15ø	15ø	40ø	30ø
SH	15ø	15ø	50ø	40ø
MS	15ø	15ø	50ø	40ø
НВ	20ø	_	_	_
FD	NOTE 1	-	100ø	40ø
IOTES:	-	<u> </u>	<u> </u>	<u> </u>

IN-SLAB HEATING NOTES

- INSTALLERS SHOULD BE PROPERLY TRAINED BY REHAU OR A REHAU AUTHORIZED
- IN ADDITION TO ALL LOCAL AND NATIONAL CODES, INSTALLERS MUST FOLLOW ALL REHAU TECHNICAL GUIDELINES INCLUDING BUT NOT LIMITED TO; TECHNICAL MANUALS INSTALLATION GUIDES, TECHNICAL BULLETINS AND PRODUCT SUBMITTALS. THE MOST CURRENT AND APPLICABLE VERSIONS OF ALL THE TECHNICAL LITERATURE IS AVAILABLE ON THE REHAU NORTH AMERICA WEBSITE AT NA.REHAU.COM/RESOURCECENTER.
- PEXA PIPE SHOULD NOT BE STORED OUTDOORS. KEEP PEXA PIPE IN ITS ORGINAL PACKAGING, UNTIL TIME OF USE TO PROTECT PIPE FROM SUNLIGHT, DIRT, DAMAGE, ETC.
- PEXA PIPE SHOULD NOT BE DRAGGED ACCROSS ROUGH SURFACES OR OBJECTS. PROTECT PEXA PIPE FROM OIL, GREASE, OIL-BASED PAINTS AND OTHER INCOMPATIBLE
- SUBSTANCES. 6. DO NOT APPLY ADHESIVES TAPE TO PEXA PIPE, UNLESS APPROVED DIRECTLY BY REHAU.
- DO NOT BURY PEXA PIPE IN CONTAMINATED SOILS.
- . CUTTING USE A PIPE CUTTER DESIGNED FOR PLASTIC PIPE THAT IS SHARP AND PRODUCES CLEAN, SQUARE CUTS. DO NOT CUT RAUPEX WITH A SAW BLADE, AS THE
- ROUGH EDGES WILL INTERFERE WITH FITTING CONNECTIONS. A CLEAN, SQUARE CUT IS KEEP PIPE AT LEAST 6" (15 CM) FROM THE EDGES OF SLABS, WALLS OR OTHER
- PERMANENT OBJECTS. LABEL PIPES AS THEY ARE INSTALLED. RECORD THIS INFORMATION ON THE MANIFOLD, NEAR THE MANIFOLD, OR WITH TABS ON THE PIPE. RECORD ACTUAL CIRCUIT LENGTHS ALONG WITH CIRCUIT NUMBERS.
- THE MANIFOLD SHOULD BE SECURELY MOUNTED IN IT'S FINAL POSITION. PROTECT THE
- MANIFOLD FROM DAMAGE AND VANDALISM DURING AND AFTER CONSTRUCTION. SECURING RAUPEX - ALL SIZES OF RAUPEX SHOULD BE SECURED EVERY 2' TO 3' (0.6M TO 0.9 M) ON STRAIGHT RUNS AND N THE START, FINISH AND MIDPOINT OF ANY TURNS, TO HOLD THE ESTABLISHED LAYING PATTERN. PIPE BENDS SHOULD BE

CAREFULLY FORMED TO PREVENT KINKING.

- 13. A PRESSURE TEST MUST ALWAYS BE PERFORMED ON THE SYSTEM PRIOR TO AND DURING THE INSTALLATION OF THE THERMAL MASS TO ENSURE THAT PEXA PIPE AND CONNECTIONS ARE LEAK-FREE. FOR DRY SYSTEMS SUCH AS JOIST SPACE APPLICATIONS, A PRESSURE TEST MUST BE PERFORMED AFTER INSTALLATION AND UP TO THE TIME THAT THE SYSTEM IS PUT INTO OPERATION. PLEASE SEE REHAU TECHNICAL INSTALLATION GUIDE FOR THE DETAILED INFORMATION INCLUDING THE SPECIFIC REQUIREMENTS.
- TESTS OF HYDRONIC HEATING SYSTEMS SHALL COMPLY WITH LOCAL CODES. AND WHERE REQUIRED, SHALL BE WITNESSED BY THE BUILDING OFFICIAL.
- PRESSURE TESTS MUST BE DONE WITH ALL CIRCUIT VALVES ON THE MANIFOLD FULLY OPEN. ALL PIPES AND THE MANIFOLDS MUST BE TESTED TOGETHER.
- PRESSURE GAUGES MUST SHOW PRESSURE INCREMENTS OF 1 PSIG AND SHOULD BE LOCATED AT OR NEAR THE LOWEST POINT IN THE DISTRIBUTION SYSTEM. USE AN AIR TEST IF WATER COULD POTENTIALLY FREEZE IN THE SYSTEM. DO NOT EXCEED 150 PSIG (POUNDS PER SQUARE INCH GAUGE) [1030 KPA].

IN-SLAB HEATING - SLAB ON GRADE NOTES

- IN A STRUCTURAL SLAB THE TOP OF THE PIPE MUST BE EMBEDDED WITHIN THE SLAB TO A MINIMUM OF 2" (50 mm) BELOW THE SURFACE. IN A NON-STRUCTURAL SLAB THE TOP OF THE PIPE MUST BE EMBEDDED IN THE GYPSUM OR CONCRETE WITH A MINIMUM OF 3/4" (20
- SUBGRADE SHOULD BE COMPACTED, FLAT AND SMOOTH TO PREVENT DAMAGE TO PIPE OR INSULATION. APPROVED VAPOR BARRIER MATERIAL SHOULD BE INSTALLED. REINFORCING WIRE MESH, IF REQUIRED BY STRUCTURAL DESIGN, MUST BE FLAT AND LEVEL, WITH ALL SHARP ENDS POINTING DOWN TO PREVENT TOUCHING THE PIPE.
- IT IS RECOMMENDED TO INSTALL MINIMUM 1" (25 mm) THICK EDGE INSULATION VERTICALLY ALONG ALL EXTERIOR SLAB EDGES, INCLUDING WHERE THE SLAB WILL TOUCH FOOTINGS OR WALLS. CHECK WITH LOCAL CODE REQUIREMENTS.
- INSULATION UNDER THE SLAB IS ALSO RECOMMENDED, BOTH TO PREVENT HEAT LOSS TO THE EARTH BELOW, AND TO DECREASE THE RESPONSE TIME OF THE HEATED SLAB.
- EPS (EXTRUDED POLYSTYRENE) AND PUR (POLYURETHANE) INSULATION IS RECOMMENDED, AS LONG AS THE PRODUCT MEETS LOADING REQUIREMENTS.
- NYLON PIPE TIES USE NYLON PIPE TIES TO FASTEN RAUPEX PIPE TO WIRE MESH OR REBAR IN THE PATTERN INDICATED BY THE DESIGN. WHEN USING NYLON PIPE TIES, PULL THEM SNUG, BUT NOT TOO TIGHT. ALSO, MAKE SURE THAT THE ENDS OF THE TIES ARE POINTED DOWN TOWARDS THE BOTTOM OF THE SLAB SO THEY WILL NOT BE EXPOSED AFTER THE SLAB IS POURED. IF TIES ARE NOT POINTED DOWN, YOU WILL HAVE TO CUT THEM LATER BEFORE POURING THE SLAB. SPACE TIES EVERY 2-3 FEET (600-900 mm). PIPE MUST BE FASTENED
- SCREW CLIP METHOD PLASTIC SCREW CLIPS ARE DESIGNED TO BE INSTALLED IN EPS RIGID BOARD INSULATION THAT IS AT LEAST 1" (25 mm) THICK.

SPACE FIXING RAIL EVERY 2-3 FEET (600-900 mm). PIPE MUST ALSO BE FASTENED AT THE

- BEGINNING, MIDPOINT AND END OF EACH 180° BEND. FIXING RAIL CAN BE FASTENED TO THE SUBFLOOR WITH SCREWS OR NAILS, USING PRE-DRILLED HOLES IN THE BOTTOM OF THE TRACK. AT BENDS AND HARD-TO-REACH AREAS, YOU MAY NEED TO USE PIPE TALONS (NAILED IN WITH A HAMMER) OR PLASTIC STAPLE CLIPS TO HOLD THE PIPE. FIXING RAIL IS FASTENED TO THE INSULATION (AT LEAST 1 1/2" [40 mm] THICK) USING REHAU PLASTIC HOLDING PINS.
- PIPE MUST NOT OVERLAP WHEN IT WILL BE ENCASED IN A THERMAL MASS, AS THIS WILL REDUCE THE THICKNESS OF THE THERMAL MASS AT THAT POINT, POSSIBLY LEADING TO THERMAL MASS DAMAGE AND/OR "HOT SPOTS".
- D. IF EVERLOC FITTINGS AND SLEEVES WILL BE INSTALLED AND ENCASED IN A THERMAL MASS, THEY MUST BE COMPLETELY WRAPPED IN WATERPROOF, ADHESIVE-FREE TAPE OR RAUCROSS HEAT SHRINK TUBING TO HELP REDUCE CORROSION CAUSED BY THE SURROUNDING ENVIRONMENT - CHECK LOCAL CODES FOR COMPLIANCE, LOCATIONS ARE TO BE NOTED ON
- PIPE CIRCUITS MUST BE PLANNED AND INSTALLED TO MINIMIZE PASSES THROUGH EXPANSION
- JOINTS, SAW CUTS OR OTHER "MOVEMENT" JOINTS IN THE THERMAL MASS. REHAU REQUIRES THE USE OF PE PROTECTION SLEEVE IN LOCATIONS WHERE RAUPEX PIPE PASSES THROUGH A THERMAL MASS, OR IN PLACES WHERE PIPE MAY RUB AGAINST AN ABRASIVE OBJECT. IN ALL CASES, COVER THE PIPE ON BOTH SIDES OF THE JOINT OR
- IN AREAS WITH HIGH PIPE CONCENTRATIONS (CLOSER THAN 4" [100 mm]) SUCH AS NEAR MANIFOLDS, IF THE THICKNESS OF THE THERMAL MASS PERMITS, INSULATE THE PIPES TO

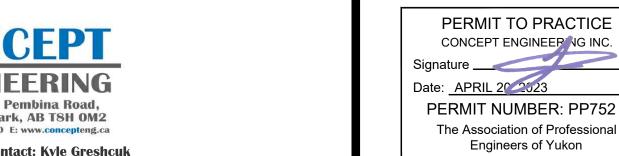
PENETRATION, AND SECURE THE PROTECTIVE SLEEVE IN PLACE OVER THE PIPE.

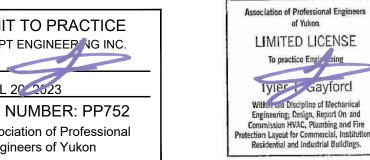
- . REHAU RECOMMENDS THE USE OF PIPE PROTECTION WHERE RAUPEX PIPE ENTERS THE THERMAL MASS AT THE BASE OF A MANIFOLD. PVC BEND GUIDES HOLD THE PIPE IN A 90° BEND AND PROTECT THE PIPE FROM DAMAGE BY THE CONCRETE CONTRACTORS AND FLOOR
- 15. INSTALL NAIL GUARDS WHERE NAILING IS LIKELY, SUCH AS DOORWAYS.
- 16. PIPE SHOULD NOT BE INSTALLED IN AREAS UNDER CABINETS USED FOR FOOD STORAGE OR UNDER APPLIANCES SUCH AS FREEZERS. IT IS ACCEPTABLE TO INSTALL PIPE UNDER BATHTUBS AND SHOWER STALLS TO WARM THE BASES. KEEP RAUPEX PIPE AT LEAST 6" AWAY FROM ANY TOILET INSTALLATION TO ENSURE THAT THE HEAT FROM THE PIPE DOES NOT DO DAMAGE TO
- MANIFOLDS SHOULD BE LOCATED A MINIMUM OF 16" (400mm) ABOVE FINISH FLOOR LEVEL. MANIFOLDS SHOULD REMAIN ACCESSIBLE FOR SERVICE AFTER THE COMPLETION OF THE JOB. THIS MAY REQUIRE INSTALLATION OF AN ACCESS PANEL.











PERMIT TO PRACTICE & SEAL

DRAWN BY

BY DD/MMM/YYYY 2022-12-09 50% REVIEW 95% REVIEW 2023-02-03 TL 2023-03-03 100% REVIEW TTG 2023-04-20 CONSTRUCTION

CHECKED BY

TTG

YUKON TEACHERS' ASSOCIATION **HEAD OFFICE**

LOT 38, BLOCK 316 - 151 BLACK ST

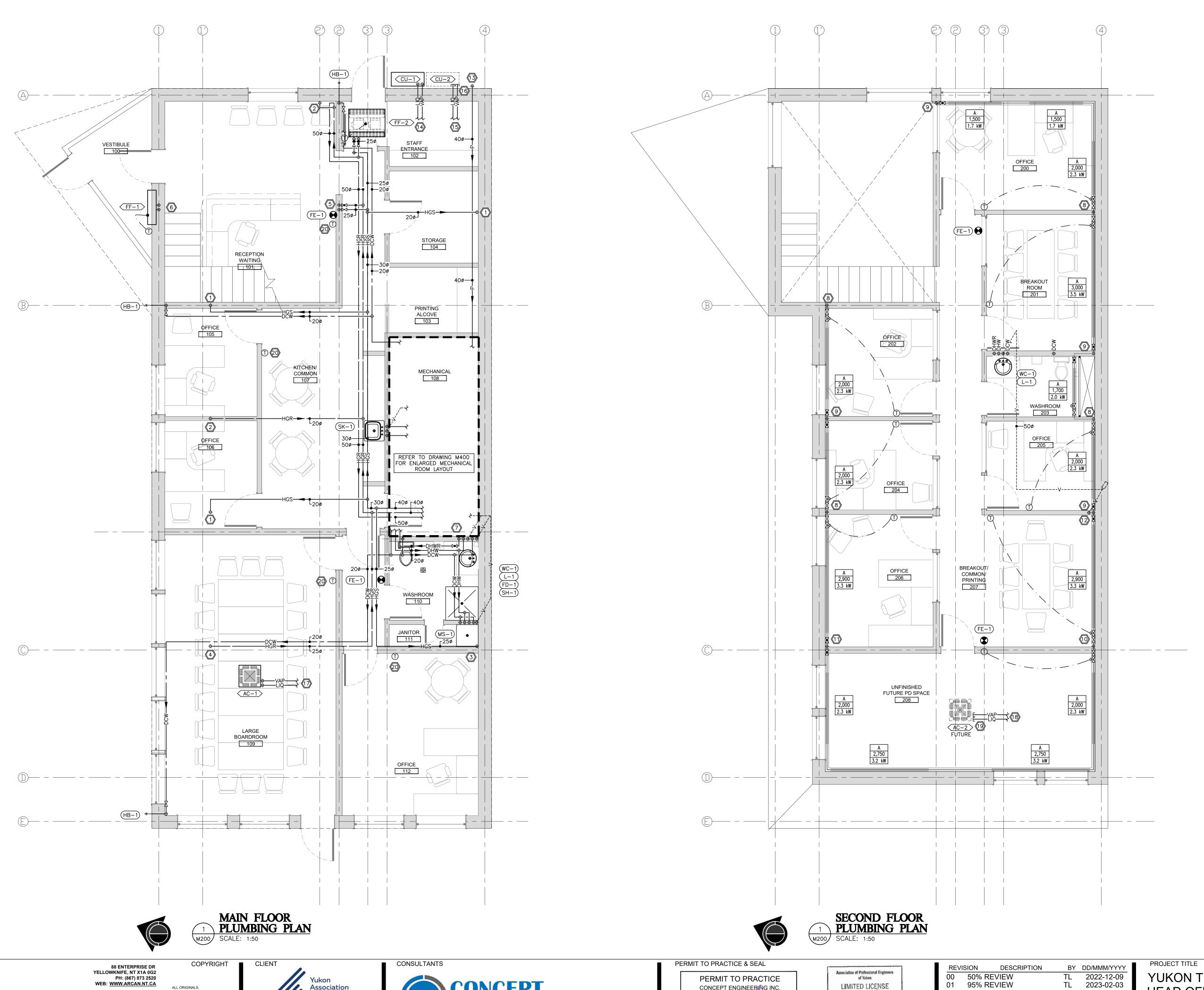
DRAWING TITLE FOUNDATION PLAN

M100

DWG No

22037

REVISION PROJECT No 2023-04-19



KEY NOTES

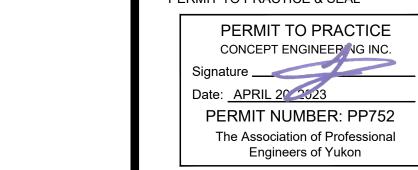
- 200 HEATING GLYCOL SUPPLY LINE UP TO SECOND FLOOR. REFER TO SECOND FLOOR PLAN ON THIS PAGE FOR CONTINUATION.
- PLAN ON THIS PAGE FOR CONTINUATION. 200 HEATING GLYCOL RETURN LINE FROM SECOND FLOOR ABOVE. REFER TO SECOND FLOOR PLAN ON THIS PAGE FOR CONTINUATION.
- 25¢ HEATING GLYCOL SUPPLY LINE UP TO SECOND FLOOR. REFER TO SECOND FLOOR PLAN ON THIS PAGE FOR CONTINUATION.
- 25¢ HEATING GLYCOL RETURN LINE FROM SECOND FLOOR ABOVE. REFER TO SECOND FLOOR PLAN ON THIS PAGE FOR CONTINUATION.
- 25¢ HEATING GLYCOL SUPPLY AND RETURN LINES DOWN UNDER SLAB. REFER TO DRAWING M100 FOR CONTINUATION.
- 6 25¢ HEATING GLYCOL SUPPLY AND RETURN LINES FROM BELOW. REFER TO DRAWING M100 FOR CONTINUATION.
- DOMESTIC HOT WATER RECIRCULATION LINE TO BE PIPED DOWN WALL AND TIED INTO HOT WATER LINE AS CLOSE AS POSSIBLE TO THE FAUCET, COMPLETE WITH BALANCING
- 8 200 HEATING GLYCOL SUPPLY LINE FROM MAIN FLOOR BELOW. REFER TO MAIN FLOOR PLAN ON THIS PAGE FOR CONTINUATION. 20¢ HEATING GLYCOL RETURN LINE DOWN TO MAIN FLOOR. REFER TO MAIN FLOOR PLAN ON THIS PAGE FOR CONTINUATION.
- 25¢ HEATING GLYCOL SUPPLY LINE FROM MAIN FLOOR BELOW. REFER TO MAIN FLOOR PLAN ON THIS PAGE FOR CONTINUATION
- PLAN ON THIS PAGE FOR CONTINUATION.
- 250 HEATING GLYCOL RETURN LINE DOWN TO MAIN FLOOR. REFER TO MAIN FLOOR PLAN ON THIS PAGE FOR CONTINUATION.
- 75¢ PLUMBING VENT FROM MAIN FLOOR BELOW AND UP THROUGH ROOF. REFER TO DRAWING M400 FOR CONTINUATION ON MAIN FLOOR.
- (13) 400 PROPANE LINE DOWN. REFER TO DRAWING MOOD FOR CONTINUATION.
- CONTRACTOR TO PROVIDE TEE-OFF WATER LINE COMPLETE WITH SHUT-OFF VALVE FOR FUTURE DISHWASHER, AS WELL AS A SANITARY CONNECTION FROM THE DISHWASHER
- REFRIGERANT LIQUID AND VAPOUR LINES RUN TO AIR CONDITIONING UNIT, AC-1. REFRIGERANT LINES TO BE PIPED AS PER MANUFACTURERS SPECIFICATIONS.
- REFRIGERANT LIQUID AND VAPOUR LINES RUN TO FUTURE AIR CONDITIONING UNIT, AC-2. REFRIGERANT LINES TO BE PIPED AS PER MANUFACTURERS SPECIFICATIONS.
- REFRIGERANT LIQUID AND VAPOUR LINES RUN TO BE CAPPED OFF FOR FUTURE CONDENSING UNIT, <u>CU-2</u>. REFRIGERANT LINES TO BE PIPED AS PER MANUFACTURERS
- REFRIGERANT LIQUID AND VAPOUR LINES RUN TO CONDENSING UNIT, $\underline{\text{CU}}=1$. REFRIGERANT LINES TO BE PIPED AS PER MANUFACTURERS SPECIFICATIONS.
- REFRIGERANT LIQUID AND VAPOUR LINES RUN TO FUTURE AIR CONDITIONING UNIT, $\underline{\text{CU-2}}$. REFRIGERANT LINES TO BE PIPED AS PER MANUFACTURERS SPECIFICATIONS.
- REFRIGERANT LIQUID AND VAPOUR LINES RUN TO BE CAPPED OFF FOR FUTURE AIR CONDITIONING UNIT, AC-2. REFRIGERANT LINES TO BE PIPED AS PER MANUFACTURERS SPECIFICATIONS
- N-FLOOR HEATING THERMOSTAT.

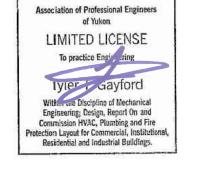
	CONNECTIONS TABLE											
FIXTURE	DCW	DHW	SAN	VENT								
WC	15ø	_	100ø	40ø								
UR	20ø	_	100ø	40ø								
SK	15ø	15ø	40ø	30ø								
SH	15ø	15ø	50ø	40ø								
MS	15ø	15ø	50ø	40ø								
HB	20ø	_	_	_								
FD	NOTE 1	_	100ø	40ø								
NOTES.												

1. C/W PROVENT TRAP GUARD MODEL# TG-34IP. 2. PLUMBING VENT PIPING RUN BELOW SLAB TO BE A MINIMUM OF 500.









REV	ISION	DESCRIPTION	BY	DD/MMM/YYYY
00	50% F	REVIEW	TL	2022-12-09
01	95% F	REVIEW	TL	2023-02-03
02	100%	REVIEW	TL	2023-03-03
03	CONS	STRUCTION	TTG	2023-04-20
DRAW	'N BY	CHECKED I	BY	

TTG

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LOT 38, BLOCK 316 - 151 BLACK ST.

DRAWING TITLE PLUMBING PLANS

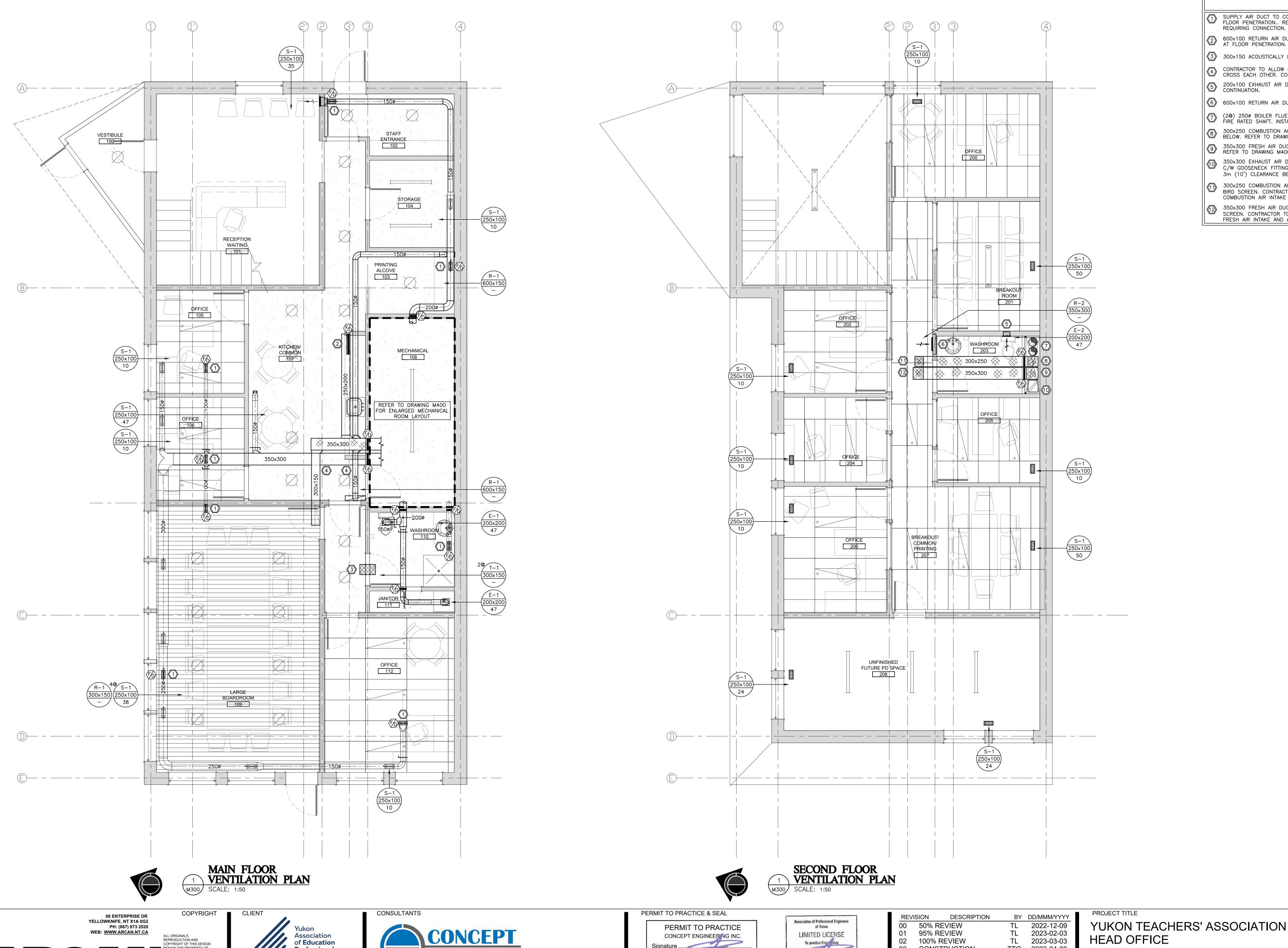
2023-04-19

M200 PROJECT No REVISION

02

DWG No

22037



KEY NOTES

- SUPPLY AIR DUCT TO CONNECT TO GRILLE ON FLOOR ABOVE C/W FIRE DAMPER AT FLOOR PENETRATION.. REFER TO SECOND FLOOR PLAN ON THIS PAGE FOR LOCATION REQUIRING CONNECTION.
- 600x100 RETURN AIR DUCT UP IN WALL TO SECOND FLOOR ABOVE C/W FIRE DAMPER AT FLOOR PENETRATION.
- 3 300x150 ACOUSTICALLY LINED TRANSFER AIR DUCT IN CEILING SPACE.
- CONTRACTOR TO ALLOW FOR THE REQUIRED DUCTWORK OFFSETS TO ALLOW DUCTS TO CROSS EACH OTHER. COORDINATE ON SITE.
- 200x100 EXHAUST AIR DUCT FROM BELOW. REFER TO DRAWING M400 FOR CONTINUATION.
- 600x100 RETURN AIR DUCT DOWN IN WALL FROM MAIN FLOOR BELOW.

FRESH AIR INTAKE AND ANY EXHAUST OUTLET.

- (2@) 2500 BOILER FLUES UP THROUGH ROOF FROM MECHANICAL ROOM BELOW IN FIRE RATED SHAFT. INSTALL AS PER MANUFACTURERS INSTALLATION GUIDELINES.
- 8 300x250 COMBUSTION AIR DUCT DOWN IN FIRE RATED SHAFT TO MECHANICAL ROOM BELOW. REFER TO DRAWING M400.
- 350x300 FRESH AIR DUCT DOWN IN FIRE RATED SHAFT TO MECHANICAL ROOM BELOW. REFER TO DRAWING M400.
- 350x300 EXHAUST AIR DUCT UP THROUGH ROOF FROM MECHANICAL ROOM BELOW.
 C/W GOOSENECK FITTING AND BIRD SCREEN. CONTRACTOR TO ENSURE A MINIMUM OF
 3m (10') CLEARANCE BETWEEN EXHAUST OUTLET AND ANY FRESH AIR INTAKE.
- 300x250 COMBUSTION AIR DUCT UP THROUGH ROOF. C/W GOOSENECK FITTING AND BIRD SCREEN. CONTRACTOR TO ENSURE A MINIMUM OF 3m (10') CLEARANCE BETWEEN COMBUSTION AIR INTAKE AND ANY EXHAUST OUTLET.
- 350x300 FRESH AIR DUCT UP THROUGH ROOF. C/W GOOSENECK FITTING AND BIRD SCREEN. CONTRACTOR TO ENSURE A MINIMUM OF 3m (10') CLEARANCE BETWEEN

DRAWING TITLE VENTILATION

DWG No M300

22037

LOT 38, BLOCK 316 - 151 BLACK ST.

PLANS

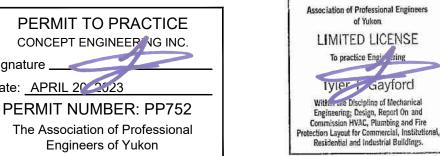
2023-04-19

REVISION PROJECT No 02



Job Number: 22037, Project Contact: Kyle Greshcuk

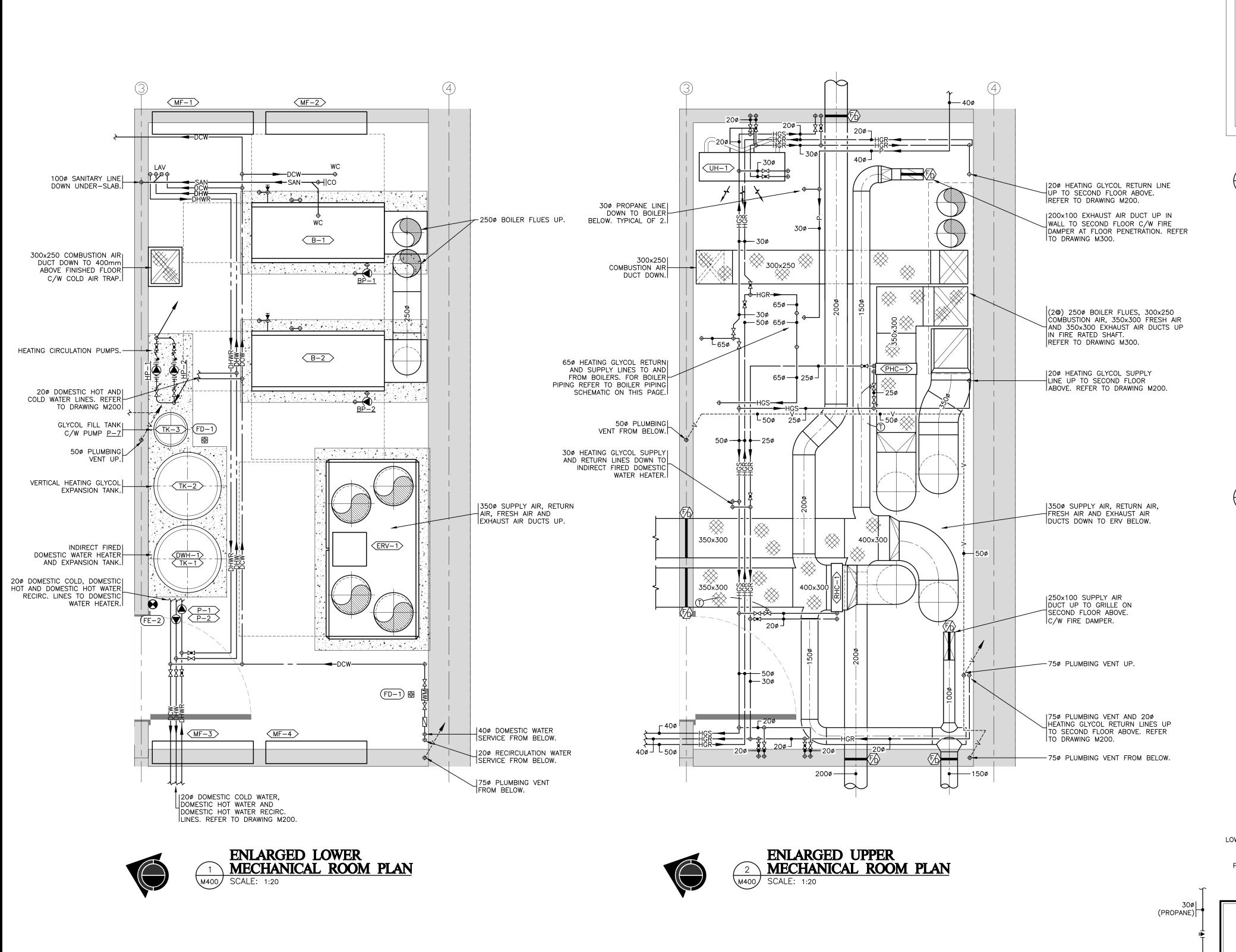


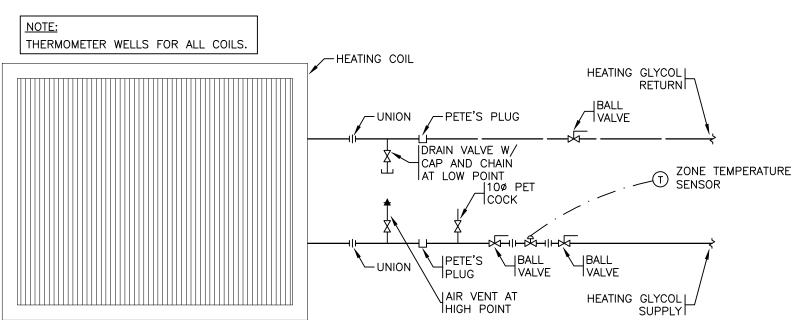


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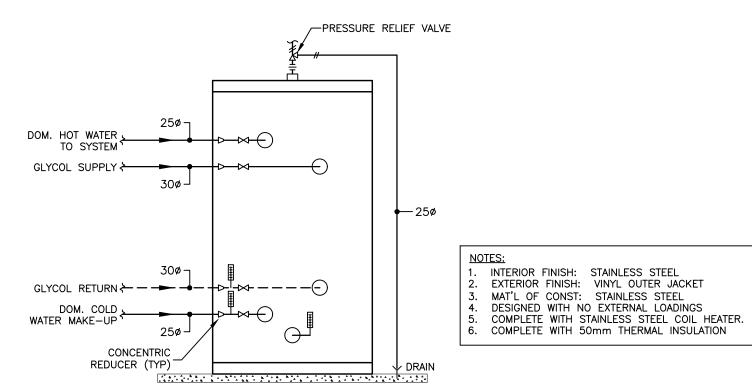
TL 2022-12-09
TL 2023-02-03
TL 2023-03-03
TTG 2023-04-20 CONSTRUCTION CHECKED BY

TTG

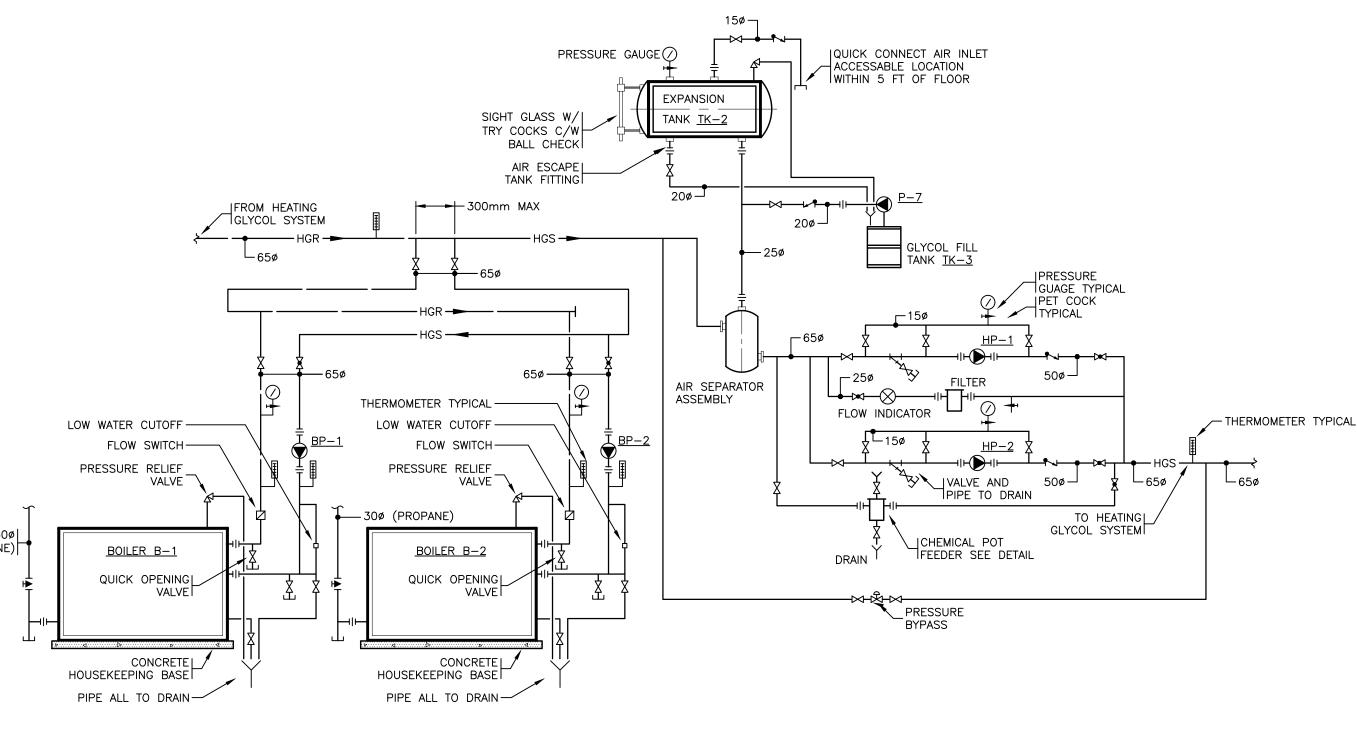




HEATING COIL PIPING DETAIL M400 SCALE: N.T.S.



DOMESTIC HOT WATER STORAGE TANK DETAIL M400 SCALE: N.T.S.

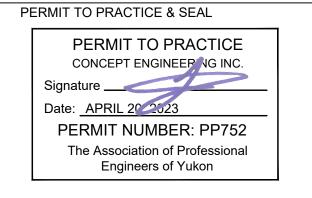


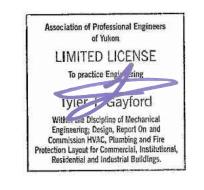
BOILER SCHEMATIC M400 SCALE: N.T.S.











REV	ISION	DESCRIPTION	BY	DD/MMM/YYYY
00	50% R	EVIEW	TL	2022-12-09
01	95% R	EVIEW	TL	2023-02-03
02	100% F	REVIEW	TL	2023-03-03
03	CONS	TRUCTION	TTG	2023-04-20
DRAW.	() L D) (CHECKED I		

YUKON TEACHERS' ASSOCIATION **HEAD OFFICE**

LOT 38, BLOCK 316 - 151 BLACK ST.

DRAWING TITLE ENLARGED **MECHANICAL** M400 **ROOM PLAN**

REVISION PROJECT No 22037 02

DWG No

2023-04-19



CHECKED BY TTG

	IN-DIRECT DOMESTIC WATER HEATER SCHEDULE													
TAG	MAKE	MODEL	LOCATION	CAPACITY (L)	OUTPUT REQUIRED PER HOUR (KW)	PUMP FLOW RATE (L/MIN)	MAX FLOW RATE (LPH)	DIAMETER (mm)	HEIGHT (mm)	WEIGHT (Kg)				
DWH-1	TERMO2000	TURBOMAX 33	MECHANICAL ROOM	136	29	38	675	457	1,639	83				

TAG MAKE MODEL LOCATION CUTPUT (kW/m) MEDIA MWT (C) ROWS DESCRIPTION A ENG AIR WF-1A SEE PLANS 1.15 50% PROP. GLYCOL 77 1 300mm HIGH CABINET W/ SLOPED TOP AND OPEN BOTTOM.								
TAG	MAKE	MODEL	LOCATION	OUTPUT	MEDIA		ROWS	DESCRIPTION
Α	ENG AIR	WF-1A	SEE PLANS	1.15	50% PROP. GLYCOL	77	1	300mm HIGH CABINET W/ SLOPED TOP AND OPEN BOTTOM.

	IN-SLAB HEATING MANIFOLD SCHEDULE															
TAG MAKE MODEL LOCATION SERVICE HEATED AREA (m²) ZONES SERVED CIRCUIT							CIRCUITS	TUBING SIZE (mm)	TOTAL LENGTH (m)	FLOW RATE (L/MIN)	HEAD LOSS (m)	RH LOAD (kW)	EWT (°C)	WIDTH (mm)	LENGTH (mm)	S DEPTH (mm)
MF-1	TAMAS	T-ZM-TV-0021-UP	MECHANICAL ROOM	PRIMARY HEATING	36.4	1	2	20	100	5.6	1.5	3.5	49	922	767	210
MF-2	TAMAS	T-ZM-TV-0021-UP	MECHANICAL ROOM	PRIMARY HEATING	75.3	1	2	20	242	9.2	2.2	7.4	49	922	767	210
MF-3	TAMAS	T-ZM-TV-0021-UP	MECHANICAL ROOM	PRIMARY HEATING	17.1	1	1	20	51	2.6	0.5	1.6	49	922	767	210
MF-4	TAMAS	T-ZM-TV-0021-UP	MECHANICAL ROOM	PRIMARY HEATING	58.5	1	3	20	195	9.2	1.0	5.7	49	922	767	210

. SUPPLY AND RETURN WATER PIPING SHALL CONNECT TO MANIFOLD THROUGH THE TOP OF CABINET. . MANIFOLD COMPLETE WITH PRO-BALANCE MIXING MODULE

		AIR (OUTLET SCHEI	DULE		
TYPE:	<u>S-1</u>	<u>R-1</u>	<u>R-2</u>	<u>E-1</u>	<u>E-2</u>	<u>T-1</u>
MANUFACTURE:	E.H. PRICE	E.H. PRICE	E.H. PRICE	E.H. PRICE	E.H. PRICE	E.H. PRICE
MODEL:	520	80	530	80	530	80
DESCRIPTION:	DOUBLE DEFLECTION SUPPLY AIR GRILLE	EGG CRATE GRILLE	RETURN WITH 45° DEFLECTION 3/4 IN. BLADE SPACING	EGG CRATE GRILLE	RETURN WITH 45° DEFLECTION 3/4 IN. BLADE SPACING	EGG CRATE GRILLE
FINISH:	B12	B12	B12	B12	B12	B12
MOUNTING:	T-BAR/GYPSUM	T-BAR	T-BAR/GYPSUM	T-BAR	T-BAR/GYPSUM	T-BAR

	SPLIT AIR CONDITIONING UNIT SCHEDULE														
				CC	OOLING OUTP	UT			ELECTRICAL		DIMENSIONS		WEIGHT		
TAG AC-1	MAKE	MAKE MODEL	LOCATION	CAPACITY (KW)	TONS	COOLING STAGES	MOCP	MCA	(V/PH/HZ)	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)	(KG)		
AC-1	HAIER	AB18SC2VHA	BOARDROOM	5.0	1.5	VARIABLE	30 2	20	208/1/60 570	570	570	260	18.5		
CU-1	HAILK	1U18EH2VHE	EXTERIOR	5.0	1.5	VARIABLE	30	20		920	385	762	60.5		
FUTURE AC-2	LIMITED	AB18SC2VHA	UNDEVELOPED	E 0	1.5	VARIABLE	30	20	208/1/60	570	570	260	18.5		
FUTURE CU-2	HAIER	1U18EH2VHE	EXTERIOR	5.0	1.5	VARIABLE	30	20	208/1/60	920	385	762	60.5		
NOTES:			•				·	<u>, </u>	,			<u>, </u>	,		

I. C/W R-410A REFRIGERANT, C/W REMOTE CONTROL 2. C/W PERMANENT METAL FILTER FRAMES.

3. C/W STANDARD 2 YEAR PARTS WARRANTY, 7 YEAR COMPRESSOR WARRANTY 4. MECHANICAL CONTRACTOR TO VERIFY UNIT VOLTAGE PRIOR TO ORDERING EQUIPMENT.

6. MOUNT CONDENSER ON EXTERIOR OF BUILDING.

7. C/W HAIER CEILING GRILLE MODEL PB-700KB

	HEATING COIL SCHEDULE														
TAG LOCATION SERVES AIR FLOW (L/S)					LAT (°C)	AIR PRESSURE DROP (Pa)	HEATING CAPACITY (kW)	FLUID	FLUID FLOW RATE (L/MIN)	EWT (°C)	LWT (°C)	FLUID PRESSURE DROP (kPa)			
PHC-1	MECHANICAL ROOM	PRE-HEAT	472	-43	-21	25	13.68	50% PROP. GLYCOL	19	82	71	20			
RHC-1	MECHANICAL ROOM	RE-HEAT	472	14	21	17	4.4	50% PROP. GLYCOL	8	82	71	4			

2. C/W 2-WAY CONTROL VALVE. SEE CONTROLS SYSTEMS SCHEMATIC NOTES.

				BOI	ILER SCH	EDULE				
TAG	MAKE	MODEL	LOCATION	INPUT (kW)	OUTPUT (kW)	EFFICIENCY (%)	FUEL	MEDIA	FLOW (L/MIN)	ELECTRICAL (V/Ph/Hz)
B-1	WEIL-MCLAIN	LGB-4	MECHANICAL ROOM	117	95	81%	PROPANE	50% PROP. GLYCOL	95	120/1/60
B-2	WEIL-MCLAIN	LGB-4	MECHANICAL ROOM	117	95	81%	PROPANE	50% PROP. GLYCOL	95	120/1/60

1. PROVIDE 4" HIGH HOUSEKEEPING PAD BELOW BOILER.

SYSTEM INFORMATION: I. THE HEATING BOILER PLANT CONSISTS OF TWO HEATING BOILERS C/W ONE CIRCULATION PUMP EACH, TWO MAIN SYSTEM PUMPS, AN EXPANSION TANK, AN INDIRECT DOMESTIC WATER HEATER, AND A GLYCOL FILL TANK.

2. THE HEATING SYSTEM SHALL OPERATE CONTINUALLY TO MAINTAIN DOMESTIC HOT WATER SUPPLY TEMPERATURES TO THE BUILDING VIA THE INDIRECT DOMESTIC HOT WATER 3. THE BOILERS WILL BE PROGRAMMED TO OPERATE CONTINUALLY TO MAINTAIN THE OUTDOOR RESET SCHEDULE (ADJUSTABLE) OF:

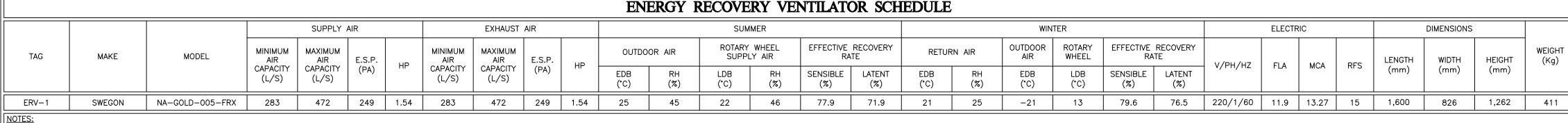
OUTSIDE AIR TEMPERATURE = -36° C & 22°C SYSTEM SUPPLY TEMPERATURE = 82°C & 71°C

4. LOW WATER CUT-OFF AND NO FLOW WILL BE WIRED INTO THE BOILER AND SHALL SHUT DOWN THE BURNER CONTROL. IF EITHER SAFETY CONDITION IS NOT MET, AN ALARM WILL BE GENERATED.

5. THE PRESSURE BY-PASS CONTROL WILL MONITOR THE SYSTEM DIFFERENTIAL PRESSURE. 6. AN OUTDOOR AIR TEMPERATURE SENSOR SHALL BE INSTALLED ON THE BUILDING WEST SHADED EXPOSURE. ENSURE SENSOR IS MOUNTED AWAY FROM DISCHARGE GRILLES OR OVERHANGS. INSTALL A SOLAR SHIELD OVER SENSOR.

			HYDRONIC UN	NIT HEAT	ER SCHEI	DULE					
TAG MAKE MODEL LOCATION AIR CAPACITY (KW) EWT (*C) LWT FLOW (L/MIN) WEIGHT (KG)											
UH-1 ENGINEERED AIR H6 MECHANICAL RM 698 23.3 82 71 30.6 67											
NOTES:	ENOUGERED AIR	110	WIEGHANIOAE NW	030	25.5	02	/ 1	30.0	0,		

1. C/W THERMOSTAT. REFER TO PLANS FOR LOCATIONS.



1. FURNISH WITH CONTROLS AND SENSORS FOR AUTOMATED AIRFLOW BALANCING.

2. EACH UNITS SPECIFIC POWER CONSUMPTION SHALL NOT EXCEED 0.77 W/CFM.

3. UNIT MANUFACTURER SHALL SUPPLY ENTIRE UNIT UL 1812 OR UL 1995 CERTIFIED AND BEAR A CERTIFICATION LABEL BY ETL, UL, OR CSA. (FIELD INSPECTION IS NOT ACCEPTABLE)

4. UNITS SHALL BE SERVICE ACCESSIBLE FROM ONE SIDE.

5. UNITS SHALL FIT THROUGH STANDARD DOORWAY (36" WIDE). ALL SECTIONS SHALL CONNECT THROUGH WIRING HARNESSES.

 \parallel 6. PROVIDE DIRECT DRIVE PLENUM FANS WITH EC MOTORS. INCLUDE AIRFLOW STATIONS.

7. FANS SHALL ALLOW SINGLE COMPONENT IMPELLER AND MOTOR REMOVAL WITH WIRE HARNESS CONNECTIONS.

18. FILTERS SHALL BE MERV 13, AND BE SIDE LOADED AND SEAL AGAINST FIXED FRAME ON ALL FOUR SIDES OF EACH FILTER. 9. ENERGY RECOVERY WHEEL SHALL HAVE STEPPER MOTOR ALLOWING CONTROL TO 1 RPM. UNIT CONTROLLER SHALL MANAGE ROTOR SPEED TO OPTIMIZE ENERGY TRANSFER, PURGE SECTOR AIRFLOW AND AVOID FROSTING.

12. PROVIDE SINGLE POINT POWER SUPPLY, FACTORY MOUNTED WITH NON-FUSED DISCONNECT IN VARIABLE LOCATIONS BASED ON APPLICATION NEEDS.

10. ENTHALPY WHEEL SHALL HAVE ALUMINUM SUBSTRATE WITH 4 ANGSTROM MOLECULAR SIEVE DESICCANT.

11. WHEEL SHALL NOT OPERATE DURING ECONOMIZER MODE, BUT WILL ROTATE AT 10 ROTATIONS PER HOUR TO CLEANSE WHEEL.

13. UNITS SHALL INCLUDE FACTORY INSTALLED CONTROLLER IQLOGIC AND TESTED CONTROLS FIELD CONTROLS FIELD CONTROLS SHALL MAINTAIN THE AIRFLOW SETPOINT REGARDLESS OF AIR DENSITY, FILTER LOADING OR ESP.

114. INCLUDE HAND HELD HUMAN INTERFACE PANEL FOR UNIT CONTROLLER, CONTROLLER SHALL BE ACCESSIBLE FROM WEB BROWSER WITHOUT ADDITIONAL SOFTWARE.

15. CONTROLS SHALL BE BACNET IP NATIVE AND BTL CERTIFIED.

1. C/W THERMOSTAT. REFER TO PLANS FOR LOCATIONS.

16. UNIT ACCESSORIES SHALL BE AUTOMATICALLY RECOGNIZED BY CONTROLLER, ALLOWING PLUG AND PLAY FUNCTIONALITY FOR AN EFFICIENT START-UP.

1 To the service of t

18. ERV UNIT TO COME WITH AN UN-CASED (SHIPPED LOOSE) HYDRONIC PREHEAT COIL FOR DUCTWORK INSTALL DIRECTLY UPSTREAM OF MERV 13 0/A FILTER WITH CONTROL VALVE. MERV8 WINTER PREFILTER BY OTHERS.

19. ERV UNIT TO COME WITH AN UN-CASED (SHIPPED LOOSE) HYDRONIC POST-HEAT COIL FOR DUCTWORK INSTALL DIRECTLY DOWNSTREAM OF S/A FAN SECTION WITH CONTROL VALVE.

20. ERV UNIT SHALL BE COMPLETE WITH UN-CASED (SHIPPED LOOSE) INSULATED ISOLATION DAMPERS WITH ON/OFF ACTUATORS. ERV CONTROLLER SHALL DIRECTLY CONTROL THE ACTUATORS BASED ON UNIT OPERATION.

21. ERV SHALL BE PROGRAMMED FOR CO2 DEMAND CONTROLLED OPERATION: MIN: 600 CFM AND MAX: 1,000 CFM AIRFLOW. CO2 ROOM SENSOR SHALL BE PROVIDED FOR DEMAND CONTROLLED VENTILATION ERV CONTROL TO ERV CONTROLLER.

			HYDRONIC	FORCE	FLOW I	IEATER	SCHE	EDULE	3				
					AIR	CAPACITY	EWT	LWT	FLOW		DIMENSIONS	S	WEIGHT
TAG	MAKE	MODEL	ARRANGEMENT	LOCATION	CAPACITY (L/S)	(KW)	(°C)	(°C)	(L/MIN)	WIDTH (mm)	LENGTH (mm)	DEPTH (mm)	(KG)
FF-1	ENGINEERED AIR	CUH-5-19	WALL - SEMI-RECESSED	VESTIBULE	228	10.5	82	71	13.8	965	711	241	50
FF-2	ENGINEERED AIR	CUH-5-24	CEILING - RECESSED	STAFF ENTRANCE	228	10.5	82	71	13.8	965	711	241	50
NOTES:													

			TANK	SCHEDULE				
						DIMEN	ISIONS	
TAG	MAKE	MODEL	LOCATION	SERVICE	CAPACITY (L)	DIAMETER (mm)	HEIGHT (mm)	WEIGHT (kg)
TK-1	FLEXCON	PH5	MECHANICAL ROOM	WATER HEATER EXPANSION	2.1	203	24	2.3
TK-2	CALEFACTIO	ALT85	MECHANICAL ROOM	HEATING GLYCOL EXPANSION	87	406	940	41
TK-3	AXIOM	SF100	GLYCOL FILL TANK	MECHANICAL ROOM	208	300ø	1,245	210 (FILLED)

			P	UMP SCHEDU	LE					
TAG	MAKE	MODEL	LOCATION	FUNCTION	FLUID	CAPACITY (L/MIN)	HEAD PRESSURE (m)	MOTOR (hp)	ELECTRICAL (V/Ph/Hz)	NOTES
P-1	WILO STAR	S21 ZFX	MECHANICAL ROOM	DOMESTIC HOT WATER RECIRC.	POTABLE WATER	7.5	3.96	FRAC	115/1/60	1
P-2	GRUNDFOS	UPS 26-99FC	MECHANICAL ROOM	INDIRECT FIRED WATER HEATER	POTABLE WATER	37.9	4.6	0.25	115/1/60	1
P-3	GRUNDFOS	UPS 15-58	MECHANICAL ROOM	IN-FLOOR HEATING MANIFOLD, MF-1	50% PROP. GLYCOL	5.6	1.5	FRAC	115/1/60	2
P-4	GRUNDFOS	UPS 15-58	MECHANICAL ROOM	IN-FLOOR HEATING MANIFOLD, MF-2	50% PROP. GLYCOL	9.2	2.2	FRAC	115/1/60	2
P-5	GRUNDFOS	UPS 15-58	MECHANICAL ROOM	IN-FLOOR HEATING MANIFOLD, MF-3	50% PROP. GLYCOL	2.6	0.5	FRAC	115/1/60	2
P-6	GRUNDFOS	UPS 15-58	MECHANICAL ROOM	IN-FLOOR HEATING MANIFOLD, MF-4	50% PROP. GLYCOL	9.2	1.0	FRAC	115/1/60	2
P-7	AXIOM	-	MECHANICAL ROOM	GLYCOL FILL TANK, TK-3	50% PROP. GLYCOL	-	-	_	115/1/60	3
BP-1	GRUNDFOS	UPS 32-80 F	MECHANICAL ROOM	BOILER, B-1	50% PROP. GLYCOL	95	3.0	0.25	120/1/60	4
BP-2	GRUNDFOS	UPS 32-80 F	MECHANICAL ROOM	BOILER, B-2	50% PROP. GLYCOL	95	3.0	0.25	120/1/60	4
HP-1	GRUNDFOS	MAGNA3 40-180 F N	MECHANICAL ROOM	PRIMARY HEATING	50% PROP. GLYCOL	208	9.1	1	120/1/60	5
HP-2	GRUNDFOS	MAGNA3 40-180 F N	MECHANICAL ROOM	PRIMARY HEATING	50% PROP.	208	9.1	1	120/1/60	5

. CONTRACTOR TO VERIFY VOLTAGE AND HORSEPOWERS, AND COORDINATE WITH ELECTRICAL CONTRACTOR, PRIOR TO ORDERING EQUIPMENT.

. P-3 THROUGH P-6 SHALL BE LOCATED WITHIN THE IN-FLOOR HEATING MANIFOLD. 3. GLYCOL FILL TANK C/W P-7. REFER TO TANK SCHEDULE.

4. BOILER PUMPS, BP-1 & BP-2 SHALL OPERATE FROM BOILER CONTROL PANEL. 5. PRIMARY HEATING PUMPS, HP-1 & HP-2 SHALL PROVIDE THE REQUIRED SYSTEM FLOW RATE AND OPERATE ON AN ALTERNATING SCHEDULE.

- WC-1 WATER CLOSET WC-1 TO BE FLUSH TANK PUBLIC -BARRIER-FREE. - MANSFIELD, ALTO 137-3173, WHITE VITREOUS CHINA, FLOOR MOUNTED, 1.28 US GALLONS (4.8L) PER FLUSH, TWO PIECE, FULLY GLAZED TRAPWAY. - C/W EXTRA HEAVY DUTY OPEN FRONT SEAT, WHITE SOLID PLASTIC. SELF SUSTAINING HINGES
- LAVATORY L-1 TO BE COUNTER MOUNTED SENSORED FAUCET BARRIER - MANSFIELD, MAVERICK II, WHITE VITREOUS CHINA, SINGLE HOLE, 500 LEFT TO RIGHT x 430 FRONT TO BACK, 200mm BOWL DEPTH. - DELTA, 590LF-HGMHDF FAUCET CENTER HOLE, DECK MOUNT FAUCET, 0.5 USGPM (1.9 L/MIN). HARDWIRED. - OPEN-GRID DRAIN. C/W OFFSET P-TRAP.
- SINK SK-1 TO BE SINGLE BOWL COUNTER MOUNTED STAINLESS KITCHEN - KINDRED, QSLA2225-8-1. DROP-IN, 20 GAUGE, INNER DIMENSIONS: 430mm FRONT TO BACK x 585mm LEFT TO RIGHT, 200mm BOWL DEPTH. - DELTA, TRINSIC 9159-DST. SINGLE HANDLE, SINGLE HOLE, PULL-DOWN KITCHEN FAUCET C/W CHROME FINISH. - CONTRACTOR TO PROVIDE FOR DISHWASHER CONNECTIONS.
- LT-1 LAUNDRY TUB LT-1 TO BE ONE PIECE MOLDED RESIN TUB. MUSTEE, 14CP.

UNIVERSAL ROUGH-IN.

- 585W x 635D x 330H LIP. - C/W FAUCET, FLEXIBLE SUPPLY LINES, P-TRAP, DRAIN STOPPER, AND STEEL SUPPORT LEGS. - PROVIDE ROUGH IN, DRAIN TIE IN, SHUT OFF VALVE, FITTINGS AND CONNECTION.
- MAAX SCARLET 812mm x 812mm x 1900mm, WHITE, SLIDING CORNER SQUARE SHOWER KIT WITH WHITE BASE, DOOR IN CHROME AND CLEAR GLASS. - DELTA MONITOR T13220-CDN: CLASSIC SHOWER TRIM, BRUSHED NICKEL FINISH. PRESSURE BALANCED SINGLE LEVER, 1.5 GPM (5.6 L/MIN), AND MULTI-CHOICE
- HB-1 HOSE BIBB HB-1 TO BE EXTERIOR CONCEALED.
 WATTS, HY-725. NON-FREEZE HYDRANT C/W KEYED VALVE, KEYED LOCKING COVER, AND INTEGRAL VACUUM BREAKER.
- FE-1 FIRE EXTINGUISHER FE-1 TO BE 5LB ABC EXTINGUISHER SEMI-RECESSED CABINET. - NATIONAL FIRE EQUIPMENT, 102RS.
- COORDINATE EXACT MOUNTING ON SITE WITH GENERAL CONTRACTOR. FE-2 FIRE EXTINGUISHER <u>FE-2</u> TO BE - 5LB - ABC EXTINGUISHER - WALL HOOK. - COORDINATE EXACT MOUNTING ON SITE WITH GENERAL CONTRACTOR.
- FD-1 FLOOR DRAIN FD-1 TO BE 100mmø OUTLET FLOOR DRAIN WITH ROUND STRAINER. - WATTS, FD-100-A. NICKEL BRONZE ROUND STRAINER C/W TRAP SEAL PRIMER OR TRAP PROTECTION DEVICE ACCEPTABLE TO LOCAL AUTHORITY HAVING
- CLEANOUT CO TO BE FLOOR CLEANOUT WITH HEAVY DUTY NICKEL BRONZE ROUND - WATTS, CO-100-C-R. EPOXY-COATED CAST IRON BODY WITH ANCHOR FLANGE, ABS PLUG, NEOPRENE CONE GASKET, AND REVERSIBLE MEMBRANE CLAMP.

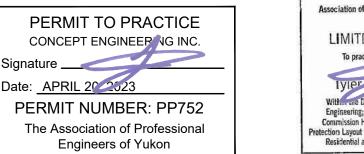
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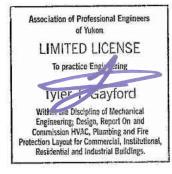


CONSULTANTS





PERMIT TO PRACTICE & SEAL



REV	ISION	DESCRIPTION	N BY	/ DD/MMM/YYY
00	50% F	REVIEW	TL	2022-12-09
01	95% F	REVIEW	TL	2023-02-03
02	100%	REVIEW	TL	2023-03-03
03	CONS	STRUCTION	TTG	2023-04-20

TTG

CHECKED BY

DRAWN BY

YUKON TEACHERS' ASSOCIATION **HEAD OFFICE**

LOT 38, BLOCK 316 - 151 BLACK ST

DRAWING TITLE **MECHANICAL** SCHEDULES

DWG No

22037

2023-04-19

REVISION PROJECT No

MECHANICAL SPECIFICATION

A. <u>GENERAL</u>

- 1.1. THE INTENT OF THE SPECIFICATION AND DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATING MECHANICAL LAYOUT IN COMPLETE ACCORDANCE WITH THE MOST CURRENT EDITION OF THE NATIONAL BUILDING CODE-ALBERTA EDITION AND REFERENCED STANDARDS. MAKE PROVISIONS FOR ALL LABOUR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE THE MECHANICAL WORK.
- 1.2. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO EACH OTHER AND WHAT IS CALLED FOR BY ONE IS TO BE BINDING AS IF CALLED FOR BY BOTH. SHOULD ANY DISCREPANCY APPEAR BETWEEN DRAWINGS AND SPECIFICATIONS WHICH LEAVES DOUBT AS TO THE TRUE INTENT AND MEANING, OBTAIN A RULING FROM THE ENGINEER BEFORE SUBMITTING TENDER.
- 1.3. MECHANICAL DRAWINGS INDICATE GENERAL LOCATION AND ROUTE TO BE FOLLOWED BY MECHANICAL SYSTEMS AND DO NOT SHOW ALL STRUCTURAL AND ELECTRICAL DETAILS. MECHANICAL SYSTEMS TO PROVIDE A COMPLETE OPERATING SYSTEM. INSTALL TO CONSERVE HEADROOM, USE FURRING SPACE, ETC ...
- 1.4. DO NOT INSTALL ANY PIPING, DUCTWORK OR OTHER MECHANICAL COMPONENTS THAT INTERFERES WITH OTHER TRADES, AFFECTS HEADROOM, OR EXPOSED CEILING SPACE. WITHOUT PRIOR CONSULTATION AND
- 1.5. CONFORM TO MANUFACTURER'S INSTRUCTIONS, DETAILS AND PROCEDURES FOR EQUIPMENT INSTALLATIONS. 1.6. INSTALL EQUIPMENT IN LOCATIONS AND ROUTES SHOWN, CLOSE TO BUILDING STRUCTURE WITH MINIMUM INTERFERENCE WITH OTHER SERVICES OR FREE SPACE. REMOVE AND REPLACE IMPROPERLY INSTALLED EQUIPMENT.
- 2. <u>LIABILITY</u> 2.1. ASSUME RESPONSIBILITY FOR LAYOUT WORK AND FOR DAMAGE CAUSED TO THE LANDLORD BY IMPROPER
- 2.2. PROTECT FINISHED AND UNFINISHED WORK FROM DAMAGE.
- 2.3. TAKE RESPONSIBILITY FOR CONDITION OF MATERIALS AND EQUIPMENT SUPPLIED AND PROTECT UNTIL WORK IS COMPLETED AND ACCEPTED 2.4. VERIFY ALL BUILDING AND SITE DIMENSIONS AND MILLWORK COMPONENTS PRIOR TO ANY FABRICATION AND INSTALLATION OF EQUIPMENT OR MATERIALS. NO INCREASE IN CONTRACT COST WILL BE CONSIDERED FOR
- 3. <u>CERTIFICATES</u> 3.1. GIVE NOTICES, OBTAIN PERMITS AND PAY FEES SO WORK SPECIFIED MAY BE CARRIED OUT. FURNISH CERTIFICATES, IF REQUESTED, AS EVIDENCE THAT WORK CONFIRMS WITH LAWS AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION.

FAILURE TO VERIFY THESE DIMENSIONS ON SITE.

- 4. CUTTING AND PATCHING 4.1. COORDINATE WITH THE GENERAL CONTRACTOR THE LOCATIONS OF ALL HOLES FOR MECHANICAL EQUIPMENT BEFORE WALLS, FLOORS AND ROOF ARE MODIFIED OR BUILT AND PROVIDE SLEEVES REQUIRED FOR THE MECHANICAL INSTALLATIONS.
- 4.2. COORDINATE WITH THE GENERAL CONTRACTOR RESPONSIBILITY FOR CUTTING AND PATCHING OF BUILDING STRUCTURE REQUIRED FOR MECHANICAL WORK. REVIEW BUILDING STRUCTURAL SYSTEM PRIOR TO COMMENCEMENT OF CORING AND OBTAIN APPROVAL FROM STRUCTURAL CONSULTANT IF REQUIRED FOR SPECIAL CONDITIONS (I.E. POST TENSION STRUCTURAL SLABS).
- 4.3. X-RAY FOR LOCATION OF IN-FLOOR REBAR AND CONDUIT, WHERE REQUIRED BY LANDLORD. X-RAY TO BE DONE AFTER NORMAL WORKING HOURS. TAKE NECESSARY PRECAUTIONS TO PROTECT COMPUTER EQUIPMENT
- 4.4. PROVIDE FIRE STOPPING WHERE REQUIRED THROUGH FIRE RATED WALLS OR FLOORS. FIRE STOPPING SYSTEMS TO BE ULC OR CUL LISTED SYSTEMS RATED FOR THE APPLICATION AND INSTALLED AS PER MANUFACTURER'S LISTED INSTALLATION REQUIREMENTS.
- 4.5. EXCAVATING INSIDE THE BUILDING AND FIRST 12" (300mm) OF BACKFILL SHALL BE DONE BY THE MECHANICAL CONTRACTOR. REMAINING BACKFILL IS BY THE GENERAL CONTRACTOR. COORDINATE SAW 4.6. MISCELLANEOUS METALS RELATED TO MECHANICAL EQUIPMENT AND WORK ARE TO BE SUPPLIED AND
- INSTALLED BY MECHANICAL SUCH AS HANGERS, BRACKETS, AND INSERTS. 4.7. HINGED ACCESS COVERS ARE TO BE SUPPLIED BY MECHANICAL AND INSTALLED BY GENERAL CONTRACTOR. TO BE PROVIDED FOR ALL CONCEALED VALVES, CLEANOUTS, TRAPS, AIR VENTS, BALANCING AND FIRE DAMPERS, ETC..
- 5.1. TEST EQUIPMENT AND MATERIALS WHERE SPECIFIED OR REQUIRED BY AUTHORITIES HAVING JURISDICTION TO DEMONSTRATE PROPER AND SAFE OPERATION. PROVIDE NOTICE TO ENGINEER BEFORE TESTS.
- 5.2. TEST PROCEDURES SHALL BE IN ACCORDANCE WITH APPLICABLE PORTIONS OF ASME, ASHRAE, SMACNA, NFPA, ABSA, CSA AND OTHER RECOGNIZED TEST CODES AS FAR AS FIELD CONDITIONS PERMIT. GUARANTEE 6.1. PROVIDE THE OWNER WITH A WRITTEN GUARANTEE WARRANTING APPARATUS FURNISHED TO REMAIN IN
- SERVICEABLE CONDITION FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE BY THE

STANDARD OF MATERIALS AND WORKMANSHIP

- 7.1. MATERIALS SHALL BE NEW AND OF UNIFORM PATTERN THROUGHOUT AND SHALL MEET INDUSTRY STANDARDS OR AS SPECIFICALLY IDENTIFIED IN THIS SPECIFICATION. THIS IS FOR THE PURPOSE OF ESTABLISHING A STANDARD OF QUALITY OF MATERIALS AND WORKMANSHIP AND NOT TO LIMIT SELECTION.
- 7.2. WORKMANSHIP SHALL FOLLOW THE BEST TRADITION AND TRADESMANSHIP. EMPLOY ONLY TRADESMEN PROPERLY LICENSED FOR WORK REQUIRING TRADESMEN WITH SPECIAL SKILL.
- 7.3. MAKE AND QUALITY OF MATERIALS AND WORKMANSHIP ARE SUBJECT TO APPROVAL BY THE ENGINEER AND THE OWNER. REMOVE CONDEMNED MATERIALS AND INSTALL SUITABLE MATERIALS IN THEIR PLACE. 7.4. PROVIDE FOR SUPPORTS AND HANGERS TO HANG AND SECURE PIPING, DUCTING AND EQUIPMENT TO ALLOW
- FOR EXPANSION, MAINTAIN GRADE BY ADJUSTMENT, AND APPEAR NEAT. INSTALL SUPPORTS OF STRENGTH AND RIGIDITY TO SUIT LOADING WITHOUT UNDULY STRESSING THE STRUCTURE OR MECHANICAL COMPONENTS SERVED. USE COPPER FOR COPPER PIPING AND STEEL FOR FERROUS PIPING. PERFORATED BAND IRON STRAP HANGERS ARE NOT ACCEPTABLE. USE PIPING ARRANGEMENTS AND EXPANSION LOOPS/OFFSETS WHERE REQUIRED TO PROTECT PIPING FROM EXPANSION AND CONTRACTION.
- 7.5. CONTRACTOR TO ENSURE STRUCTURAL CAPACITY OF THE MECHANICAL COMPONENTS, INCLUDING ANCHORAGE AND SEISMIC RESTRAINTS WHERE REQUIRED BY JURISDICTION.
- 8. SHOP DRAWINGS, ALTERNATIVE MATERIALS AND EQUIPMENT 8.1. CONTRACT DOCUMENTS ARE BASED ON MATERIALS AND EQUIPMENT SPECIFIED. APPROVAL BY ENGINEER OF EQUIPMENT SUBMITTED BY THE MECHANICAL TRADE AS EQUAL TO THAT SPECIFIED DOES NOT RELIEVE THE MECHANICAL TRADE OF ANY RESPONSIBILITY.
- 8.2. THE MECHANICAL TRADE IS RESPONSIBLE FOR DETERMINING THAT EVERY ITEM INCLUDED IN THE TENDER COMPLIES IN ALL RESPECTS WITH THE SPECIFICATIONS AND DRAWINGS. AFTER AWARD OF TENDER, ANY ITEM OF EQUIPMENT FOUND BY THE ENGINEER NOT TO COMPLY WITH THE SPECIFICATIONS AND DRAWINGS ARE
- TO BE REPLACED AT NO ADDITIONAL COST WITH AN ITEM OR UNIT OF ENGINEER'S CHOICE. 8.3. REVISIONS REQUIRED TO ADAPT ALTERNATIVES SHALL BE INCLUDED IN SUCH PROPOSALS. NO INCREASE IN THE CONTRACT PRICE WILL BE CONSIDERED TO ACCOMMODATE THE USE OF EQUIPMENT OTHER THAT THAT
- 8.4. SUBMIT SHOP DRAWINGS TO ENGINEER IN PDF FORMAT ON ALL EQUIPMENT SPECIFIED IN SPECIFICATIONS OR DRAWINGS FOR ENGINEER'S REVIEW. DO NOT ORDER EQUIPMENT OR MATERIALS UNTIL ENGINEER HAS REVIEWED SHOP DRAWINGS.

9. <u>OWNER'S STOCK</u>

- 9.1. SOME ITEMS OF MECHANICAL EQUIPMENT MAY BE AVAILABLE FROM THE OWNER'S STOCK, PRIOR TO SUBMITTING THE TENDER PRICE, REVIEW WITH THE OWNER WHICH ITEMS ARE AVAILABLE FOR USE ON THIS PROJECT.
- 10. <u>RECORD DRAWINGS</u> 10.1. KEEP ON SITE AN EXTRA SET OF WHITE PRINTS AND SPECIFICATIONS, RECORDING CHANGES AND DEVIATIONS DAILY. UPON COMPLETION OF THE PROJECT AND BEFORE FINAL PAYMENT, THESE DRAWINGS ARE TO BE SCANNED AND TURNED OVER TO CONCEPT ENGINEERING INC. IN PDF FORMAT AND BE CLEARLY MARKED AS "AS-BUILT" OR "RECORD" DRAWINGS IF REQUESTED BY THE OWNER. CONTRACTOR TO CONTACT CONCEPT ENGINEERING INC. FOR A FEE TO PRODUCE THE ELECTRONICALLY GENERATED AS-BUILT DRAWINGS FOR THE

11. <u>DIVISION 16 - ELECTRICAL</u>

OWNER.

11.1. SUBMIT MOTOR LIST TO THE ELECTRICAL SUB-TRADE WHICH OUTLINES ALL ELECTRICAL CONNECTIONS THAT ARE REQUIRED TO SERVICE MECHANICAL EQUIPMENT, INCLUDING VOLTAGE, PHASE AND MOTOR HORSEPOWER. 11.2. REVIEW ALL EQUIPMENT REQUIRING ELECTRICAL HOOK-UP WITH ELECTRICAL SUB-TRADE PRIOR TO

ORDERING EQUIPMENT. ENSURE PROPER ELECTRICAL CHARACTERISTICS ARE DETERMINED FOR ALL AFFECTED

11.3. COORDINATE INSTALLATION OF CEILING ELEMENTS WITH THE GENERAL CONTRACTOR AND ELECTRICAL

SUB-TRADE. 12. INSPECTIONS (SUBSTANTIAL COMPLETION)

- 12.1. PRIOR TO THE ENCLOSURE OF CEILINGS AND WALLS, NOTIFY THE ENGINEER AND ARRANGE FOR A SITE REVIEW.
- 12.2. ADVISE ENGINEER FIVE (5) DAYS PRIOR TO THE DATE FINAL SITE REVIEW IS DESIRED. ALL SYSTEMS TO BE FULLY OPERATIONAL AND ANY DEFICIENCIES SHOULD BE NOTED TO THE ENGINEER.
- 12.3. ALL DEFICIENCIES SHALL BE COMPLETED WITHIN TWO (2) WEEKS AFTER FINAL SITE REVIEW AND LETTER SUBMITTED TO ENGINEER WITHIN THAT TIME ADVISING THAT THE WORK IS COMPLETE. FAILURE TO COMPLETE WORK WILL RESULT IN WORK BEING DONE BY THE OWNER AND THE COSTS DEDUCTED FROM FINAL PAYMENT.

12.4. ADDITIONAL SITE REVIEW COSTS SHALL BE BOURNE BY THE CONTRACTOR AT A RATE OF \$500 PER VISIT PLUS DISBURSEMENTS.

- 13. MAINTENANCE MANUALS
- 13.1. PROVIDE THREE (3) COPIES OF ALL SHOP DRAWINGS AND MAINTENANCE DATA IN 3-RING BINDERS AND IN PDF.

B. HEATING AND VENTILATION

- 1. <u>GENERAL</u> 1.1. DUCTWORK SHALL BE GALVANIZED STEEL, LOCK FORMING QUALITY. FABRICATE IN ACCORDANCE WITH SMACNA DUCT MANUALS AND ASHRAE HANDBOOKS. DUCTWORK SHALL MEET THE REQUIREMENTS OF NFPA 90A AND 91 AND CONFORM TO APPLICABLE CODES. SEALANTS AND GASKETING TO BE WATER RESISTANT, FIRE RESISTANT AND COMPATIBLE WITH MATING MATERIALS. SEAL ALL DUCT JOINTS TO MEET SMACNA STANDARDS. 1.2. NO DUCT TAPE SHALL BE ALLOWED FOR SEALING DUCTS.
- 1.3. PRIOR TO FABRICATION OF DUCTWORK, CHECK ALL CEILING SPACES AND HEIGHTS AND CONFLICTS WITH OTHER TRADES AND CONFIRM DUCT ROUTING CAN BE INSTALLED AS SHOWN ON THE DRAWINGS. NOTIFY THE ENGINEER IF ANY CONFLICTS WILL PREVENT THE INSTALLATION TO PROCEED AS SHOWN ON THE DRAWINGS.
- 1.4. COORDINATE LOCATIONS OF GRILLES AND DIFFUSERS WITH LIGHTING AND OTHER TRADES. 1.5. DUCT SIZES ARE DEFINED ON THE DRAWINGS AS INSIDE CLEAR DIMENSIONS. WHERE DUCTS ARE DEFINED TO BE INSTALLED WITH ACOUSTIC LINING OR INTERNAL INSULATION, MAINTAIN INSIDE CLEAR DIMENSIONS
- CONSISTENT WITH THE DUCT SIZING DESIGNATED ON THE DRAWINGS. 1.6. WHERE APPLICABLE PROVIDE ADEQUATELY SIZED ACCESS PANELS TO MANUAL DAMPERS, EQUIPMENT, FIRE DAMPERS, VALVES, RADIATION VALVES AND WATER METERS. PROVIDE COLOURED IDENTIFICATION TABS ON

1.8. PROVIDE ACOUSTIC SEAL AROUND DUCTS AND SOUND TRAPS AT PENETRATIONS THROUGH SOUND BAFFLES.

- SUSPENDED CEILING TILES TO LOCATE ACCESS TO MECHANICAL COMPONENTS. 1.7. PROVIDE RETURN AIR OPENINGS AND/OR INSULATED SOUND TRAPS WHERE INDICATED.
- 1.9. FIRE DAMPERS SHALL BE ULC LISTED AND CONSTRUCTED IN ACCORDANCE WITH ULC STANDARD S112 "FIRE DAMPERS". FUSIBLE LINKS SHALL BE CONSTRUCTED TO ULC STANDARD S505.INSTALL AS PER MANUFACTURER'S LISTED INSTALLATION INSTRUCTIONS. PROVIDE BALANCING DAMPERS WHERE INDICATED ON DRAWINGS AND AT POINTS ON LOW PRESSURE SUPPLY, RETURN AND EXHAUST DUCTS WHERE BRANCHES
- 1.10. WHERE DUCTWORK IS VISIBLE THROUGH SUPPLY, RETURN OR EXHAUST GRILLES, PAINT INSIDE OF DUCT WITH MATTE BLACK TO PREVENT LIGHT REFLECTIONS.
- 1.11. WHERE SPACE PERMITS, ROUND DUCTWORK MAY BE USED WHERE DRAWINGS HAVE DEFINED RECTANGULAR DUCTS THAT ARE NOT ACOUSTIC LINED.
- 1.12. SIZE ROUND DUCTS FROM ASHRAE TABLE OF EQUIVALENT RECTANGULAR ROUND DUCTS. NO VARIATION OF DUCT CONFIGURATION OR SIZES PERMITTED EXCEPT BY PERMISSION FROM ENGINEER.
- 1.13. ROUND DUCTWORK TO BE SPIRAL LOCK SEAM TYPE ONLY.
- 1.14. FABRICATE OF GALVANIZED STEEL OR PRIME COATED BLACK STEEL WEIGHTED TO CLOSE AND LOCK IN CLOSED POSITION WHEN RELEASED BY FUSIBLE LINK.
- 1.15. FIRE DAMPERS IN LOW PRESSURE DUCTWORK MAY BE CURTAIN TYPE (TYPE B). 1.16. FABRICATE COMBINATION FIRE AND BALANCING DAMPERS WITH LINKAGE READILY ADJUSTABLE IN OPEN
- 1.17. CURTAIN TYPE FIRE DAMPERS (TYPE B) SHALL HAVE BLADES RETAINED IN A RECESS AND OUT OF THE AIR STREAM SO FREE AREA OF CONNECTING DUCTWORK IS NOT REDUCED. FUSIBLE LINKS SHALL BE SET FOR
- 2. LOW VELOCITY DUCTWORK 2.1. THE MINIMUM SHEET METAL THICKNESS FOR LOW PRESSURE DUCTS INCLUDING FITTINGS, ACCESS DOORS AND OTHER ACCESSORIES SHALL BE AS FOLLOWS:

<u>GAUGE</u> MAXIMUM WIDTH UP TO 12" (305mm) WIDE 0.55mm 13" (330mm) TO 30" (760mm) WIDE 0.70mm

ROUND DUCTWORK <u>DUCT_DIAMETER_</u>

RECTANGULAR DUCTWORK

ARE TAKEN FROM LARGER DUCTS.

- UP TO 12"ø (330mm) 0.55mm 14"ø (350mm) TO 22"ø (560mm) 0.70mm 2.2. FIBROUS GLASS DUCT IS NOT ACCEPTABLE.
- 2.3. CONNECT DIFFUSERS OR TROFFER BOOTS TO LOW PRESSURE DUCTS WITH 36" (900mm) MAXIMUM LENGTH OF FLEXIBLE DUCT. HOLD IN PLACE WITH CAULKING COMPOUND AND STRAP OR CLAMP. DO NOT USE FLEXIBLE DUCT TO CHANGE DIRECTIONS.

<u>GAUGE</u>

- 2.4. WHERE LOW PRESSURE DUCTS ARE CONNECTED TO FAN EQUIPMENT, OR ANY OTHER APPARATUS, A SCREWED OR BOLTED FLEXIBLE GASKETED JOINT SHALL BE PROVIDED BETWEEN THE DUCTWORK AND THE EQUIPMENT.
- 2.5. SEAL ALL DUCT JOINTS TO PROVIDE AN AIRTIGHT SYSTEM IN COMPLIANCE WITH ANSI/SMACNA 006, "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," AND IN ACCORDANCE WITH TABLE 5.2.2.3 OF THE NATIONAL ENERGY CODE FOR BUILDINGS 2011.

- 3.1. EXPOSED RECTANGULAR DUCTS: 1" (25mm) RIGID FIBROUS GLASS INSULATION, "K" VALUE AT 75°F (24°C) MAXIMUM 0.038 W/MC WITH FACTORY APPLIED REINFORCED ALUMINUM FOIL VAPOUR BARRIER. 3.2. ROUND DUCTS AND CONCEALED RECTANGULAR DUCTS: 1" (25mm) FLEXIBLE FIBROUS GLASS INSULATION, "K" VALUE AT 76°F (24°C) MAXIMUM 0.038 W/MC WITH FACTORY APPLIED REINFORCED ALUMINUM VAPOUR
- 3.3. ACOUSTIC LINING: 1" (25mm) FIBROUS INSULATION WITH "K" VALUE AT 76°F (24°C) MAXIMUM 0.035 W/MC 3.4. ABSOLUTE ROUGHNESS OF EXPOSED SURFACE NOT TO EXCEED 0.033 COATED TO PREVENT FIBRE EROSION
- AT AIR VELOCITIES UP TO 20.0M/S. 24KG/M3 FOR PLENUMS. 3.5. ENSURE SURFACE AND INSULATION IS CLEAN AND DRY PRIOR TO INSULATION.
- 3.6. ENSURE INSULATION IS CONTINUOUS THROUGH INSIDE PARTITIONS
- 3.7. FINISH AND SEAL INSULATION NEATLY AT HANGERS, SUPPORTS, ACCESS DOORS, FIRE DAMPERS, AND OTHER PROTRUSIONS. 3.8. MATERIALS SHALL MEET FIRE AND SMOKE HAZARD RATINGS AS DEFINED IN ALBERTA HEATING VENTILATION AND AIR CONDITIONING CODE. (2" (50mm) ACOUSTICALLY LINED DUCT IS ACCEPTABLE IN LIEU OF CLADDING

AND EXTERNAL 2" (50mm) INSULATION) INSULATION THICKNESS DUCTS TO BE INSULATED EXHAUST DUCTS WITHIN 10'-0" (3.0m) OF EXTERIOR OPENINGS 1" (25mm) SUPPLY DUCTS 1" (25mm) INTERNAL ACOUSTIC LINING 1" (25mm) OUTSIDE AIR DUCTS 1" (25mm)

- 4. <u>BALANCING</u> 4.1. ADJUST AND BALANCE DIFFUSERS, EXHAUST FANS TO PROVIDE AIR FLOW RATES WITHIN 10%± OF THOSE SPECIFIED.
- 4.2. BALANCE WATER TERMINALS TO PROVIDE FLOW RATES WITHIN 10%± OF THOSE SPECIFIED. 4.3. ADJUST AND BALANCE MAJOR EQUIPMENT COMPONENTS TO PROVIDE FLOW RATES WITHIN 10%± OF THOSE
- 4.4. BALANCING FIRM SHALL REPORT ANY DEFECTS OR DEFICIENCIES THAT AFFECT OBTAINING SPECIFIED FLOW
- RATES PRIOR TO ISSUING FINAL REPORTS TO ENGINEER. 4.5. PREPARE REPORT IN ACCORDANCE WITH PROCEDURES, FORMAT AND INFORMATION REQUIRED WITHIN THE
- CURRENT EDITION OF AABC GUIDELINE AND SUBMIT TWO (2) COPIES TO ENGINEER FOR REVIEW. PROVIDE INFORMATION ON EXISTING EQUIPMENT IF REQUIRED.
- 4.6. MECHANICAL CONTRACTOR, SHEET METAL AND CONTROL SUB-TRADES SHALL COOPERATE WITH BALANCING FIRM WHEN BALANCING IN PROGRESS.
- 4.7. WHEN SPACE IS OCCUPIED PRIOR TO BALANCING, CONTINUE EXECUTION OF SUCH WORK OUTSIDE OF OCCUPIED HOURS. COORDINATE WITH OCCUPANT.
- 4.8. IF REPORT IS REJECTED DUE TO IMPROPER BALANCING PROCEDURES, SYSTEM SHALL BE RE-BALANCED AT NO EXTRA COST.
- 4.9. SET AIR PATTERNS ON ADJUSTABLE DIFFUSERS TO PREVENT DRAFTS AND PROVIDE EQUAL DISTRIBUTION.
- 4.10. ADJUST FAN SPEEDS TO DELIVER THE AIR VOLUME SPECIFIED BY ADJUSTING OR CHANGING THE PULLEY.
- 4.11. ADJUST AIR VOLUMES TO GRILLES/DIFFUSERS BY ADJUSTING THE AIR BALANCING DAMPERS ON THE DUCT
- 4.12. ALL BALANCING WORK TO BE CARRIED OUT BY AN APPROVED BALANCING CONTRACTOR.

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4.13. BALANCED POSITIONS TO BE MARKED WITH A PERMANENT MARKER OR STICKER AND INITIALED AND DATED BY BALANCER.

- C. <u>CONTROLS</u>
- 1. THERMOSTATS 1.1. PROVIDE NEW THERMOSTATS WHERE INDICATED. ENSURE OPERATING CHARACTERISTICS ARE COMPATIBLE WITH CONTROL COMPONENTS (I.E. DIRECT/REVERSE ACTING). ALL THERMOSTATS TO BE WALL OR COLUMN
- MOUNTED AT NORMAL MOUNTING HEIGHT UNLESS SPECIFICALLY NOTED OTHERWISE. 1.2. ALL CONTROL WORK TO BE CARRIED OUT BY AN APPROVED CONTROLS CONTRACTOR.
- 2. CONTROL VALVES AND DAMPER OPERATORS 2.1. CONTROL VALVES AND DAMPERS SHALL BE EQUAL TO BASE BUILDING STANDARD TYPE UNLESS NOTED OTHERWISE.
- D. <u>PLUMBING</u> 1. <u>VALVES</u>
- 1.1. PROVIDE VALVES COMPATIBLE WITH BASE BUILDING STANDARD. FOR SHUT-OFF SERVICE, USE BALL VALVES
- UNLESS NOTED OTHERWISE.

1.2. FOR GAS SERVICE, USE PLUG COCK TYPE VALVES.

- 2. <u>PIPING</u> 2.1. PROVIDE ALL NECESSARY PIPING, MATERIAL AND LABOUR FOR THE SYSTEM AS INDICATED AND TO CONFORM
- TO THE NATIONAL PLUMBING CODE OF CANADA. 2.2. GAS PIPING TO CONFORM TO CANADIAN GAS CODE CAN/CGA B149.1-10. CONFIRM EXISTING GAS PRESSURE
- AVAILABLE PRIOR TO INSTALLATION. 2.3. DRAINAGE AND VENT PIPING SHALL BE TYPE "M" OR TYPE "DWV" HARD COPPER, CAST IRON WITH
- MECHANICAL JOINTS OR FIRE AND SMOKE RATED PVC. 2.4. WHEN USING COPPER PIPING: DOMESTIC COLD WATER TO BE COPPER "L" TO ASTM 388M 85 FOR NORMAL
- PIPE DIAMETERS UP TO AND INCLUDING 6". 2.5. PREVENT DIRT, DEBRIS, AND OTHER FOREIGN MATERIALS FROM ENTERING PIPING SYSTEM DURING
- 2.6. ALL COLD PIPING TO BE INSULATED WITH FACTORY APPLIED VAPOUR BARRIER JACKET, MOULDED TO
- CONFORM TO PIPING, "K" VALUE AT 24 DEGREES CELCIUS MAXIMUM 0.035 W/M DEGREES CELSIUS. 2.7. ALL NEW HOT PIPING TO BE INSULATED WITH FINE FIBROUS GLASS INSULATION WITH FACTORY APPLIED GENERAL PURPOSE JACKET, MOULDED TO CONFORM TO PIPING, "K" VALUE AT 24 DEGREES CELSIUS
- MAXIMUM 0.035 W/M DEGREES CELSIUS.
- 2.8. IDENTIFY PIPING AS PER BASE BUILDING STANDARDS. 2.9. PROVIDE VALVE TAGGING USING AN EXTENSION OF THE BASE BUILDING NUMBERING SYSTEM FOR NEW VALVES INSTALLED. INCLUDE COPY OF VALVE TAG LIST IN OPERATING AND MAINTENANCE DATA.

	2.0 0. 2	
PIPING TO BE INSULATED	PIPE SIZES	INSULATION THICKNESS
DOMESTIC COLD WATER	ALL SIZES	1/2" (12mm)
DOMESTIC HOT WATER	ALL SIZES	1/2" (12mm)
DOMESTIC HOT WATER RECIRC.	ALL SIZES	1/2" (12mm)
VENTS WITHIN 6'(2.0m) OF ROOF OUTLET	ALL SIZES	1/2" (12mm)
STORM SEWER PIPING WITHIN 6'(2.0m)	ALL SIZES	1/2" (12mm)
OF ROOF INLET		
(HORIZONTAL PIPING THROUGHOUT)	ALL SIZES	1/2" (12mm)
(ABOVE GRADE THROUGHOUT)	ALL SIZES	1/2" (12mm)
HOT WATER HEATING (DO NOT	1/2"-3/4" (12-20mm)	1/2" (12mm)
INSULATE WITHIN RADIATION CABINET) REFRIGERATION PIPING	≥1" (≥25mm)	1" (25mm)
NEI MOERATION I II ING		

- ALL SIZES SUCTION AND LIQUID LINES 3/4" (20mm) ARMAFLEX 2.10. HOT WATER HEATING, CHILLED WATER AND CONDENSER WATER PIPING MATERIAL AND FITTINGS SHALL BE EQUAL TO BASE BUILDING SPECIFICATIONS UNLESS NOTED OTHERWISE. ENSURE CHEMICAL TREATMENT FOR NEW SYSTEM MATCHES EXISTING TREATMENT. ALL NEW PIPING TO BE CLEANED USING A BASE BUILDING
- COMPATIBLE METHOD PRIOR TO CONNECTION TO EXISTING SYSTEMS. 2.11. INSTALL ARRESTOR ON WATER LINES CONNECTED TO SOLENOID VALVES (DISHWASHERS, WASHING MACHINES, ICE MAKERS, FLUSH VALVES ON TOILETS AND URINALS), FLUSH VALVES (URINALS AND TOILETS) AND FAUCETS OVER 2GPM RATING. INSTALL IN AN ACCESSIBLE LOCATION. UTILIZE PRE MANUFACTURED TYPE IN CONFORMANCE TO ASSE1010.
- 2.12. WHERE UTILIZING PLASTIC PIPING CONTRACTOR IS TO ENSURE PRODUCT IS LISTED AND CSA APPROVED FOR THE INSTALL LOCATION AND PIPING APPLICATION. ENSURE SMOKE AND FLAME SPREAD RATINGS AS WELL AS PIPE SUPPORT AND FIRE PENETRATION PROVISIONS ARE ACCOMMODATED AS REQUIRED. DRAINAGE PIPING UNDER SLAB IS TO UTILIZE GLUED/SOLVENT WELDED FITTINGS (GASKETED JOINTS ON BELOW SLAB DRAINAGE NOT PERMITTED UNLESS SPECIFICALLY APPROVED BY ENGINEER).

3. <u>REFRIGERANT PIPING</u>

- 3.1. REFRIGERATION CONTRACTOR SHALL SIZE PIPING FOR MINIMUM PRESSURE DROPS IN ACCORDANCE WITH THE LATEST ASHRAE STANDARDS. ALL TUBING RUNS TO BE DESIGNED AND INSTALLED USING SHORTEST RUNS POSSIBLE WITH NO CROSSOVERS. PIPING SHALL BE ACR COPPER MANUFACTURED BY MUELLER. DO NOT USE CAST TYPE FITTINGS. ALL ELBOWS AND RETURN BENDS SHALL BE 90 DEGREE - DO NOT USE 45 DEGREE ELBOWS. SHUTOFF/ISOLATION VALVES TO BE REFRIGERATION GRADE ANGLE, GLOBE AND BALL TYPE WITH SEAT TYPE CONNECTIONS EQUAL TO MUELLER STREAMLINE. MAKE JOINTS WITH BRAZED COPPER TO COPPER COUPLINGS. SLOPE HORIZONTAL LINES MINIMUM OF 1:200 IN THE DIRECTION OF FLOW. PROVIDE OIL TRAPS AT THE BASE OF ALL SUCTION AND DISCHARGE RISERS. EXTREME CARE SHALL BE TAKEN TO KEEP THE ENTIRE SYSTEM CLEAN AND DRY DURING INSTALLATION. ANY FOREIGN MATERIALS MUST BE REMOVED WITH A CLEAN DRY SWAB.
- 3.2. <u>REFRIGERATION PIPING INSULATION:</u>
- 3.2.1. SUCTION LINES SHALL BE INSULATED WITH 1" (25mm) WALL ARMAFLEX. CONDENSATE RETURN LINES SHALL BE INSULATED WITH 3/4" (20mm) WALL ARMAFLEX. HOT GAS LINES SHALL BE INSULATED WITH WALL ARMAFLEX. ALL INSULATION JOINTS TO BE GLUED. PAINT PIPING INSULATION EXPOSED TO OUTDOORS WITH TWO COATS OF PAINT.
- 3.3. <u>TESTING, CHARGING AND START-UP:</u>
- 3.3.1. AT COMPLETION OF INSTALLATION, PRESSURE SYSTEM WITH NITROGEN AND CHECK FOR LEAKS. REPAIR AND RETEST. LEAK TEST THE ENTIRE SYSTEM TO CURRENT ENVIRONMENT CANADA AND HRAI STANDARDS.
- 3.3.2. BEFORE ANY MOTOR UNITS IS OPERATED, THE LUBRICATION SHALL BE CHECKED AND RECTIFIED IF
- 3.3.3. RECHECK COMPRESSOR CRANKCASE OIL LEVEL AFTER 24 HOURS OF OPERATION. START-UP SYSTEM. CHARGE AND CHECK OUT OPERATION. ASSURE THE REFRIGERANT CHARGE IS ADEQUATE FOR WINTER
- 3.4. <u>WARRANTY-GUARANTEE:</u> 3.4.1. THE CONTRACTOR SHALL WARRANTY ALL EQUIPMENT, MATERIALS AND WORKMANSHIP FOR A ONE (1)
- YEAR PERIOD. COMPRESSORS SHALL CARRY AN EXTENDED FOUR YEAR REPLACEMENT WARRANTY. 4. <u>RETURN AIR PLENUMS</u> 4.1. CONTRACTOR IS TO ENSURE PIPING AND OTHER COMPONENTS LIKE THE DOMESTIC WATER HEATER SUPPORT
- PLATFORMS AND EQUIPMENT ACCESS PLATFORMS WITHIN RETURN AIR PLENUMS ARE SMOKE AND FLAME SPREAD RATED FOR THE APPLICATION (NON COMBUSTIBLE).

5. PLUMBING FIXTURES

5.1. REFER TO THE MECHANICAL DRAWINGS FOR THE PLUMBING FIXTURE SCHEDULE. 5.2. ALL FIXTURES TO BE SUPPLIED COMPLETE WITH SCREWDRIVER STOPS ON SUPPLIES. PROVIDE CHROME PLATED P-TRAPS, ESCUTCHEONS AND WATER SUPPLIES. PLASTIC IS NOT ACCEPTABLE.

5.3. PROVIDE SHOP DRAWINGS FOR REVIEW. E. <u>FIRE PROTECTION</u>

- 1. <u>FIRE EXTINGUISHER</u> 1.1. PROVIDE FIRE EXTINGUISHER OF TYPE AND SIZE NOTED ON THE DRAWINGS. INSTALL FIRE EXTINGUISHERS IN SEMI-RECESSED CABINET WITH HINGED GLASS DOOR (PRIME COATED UNLESS NOTED OTHERWISE ON
- 1.2. INSTALL CABINET WITH HANDLE AT 3'-0" TO 5'-0" (1.0m TO 1.5m) ABOVE FINISHED FLOOR.

YELLOWKNIFE, NT X1A 0G2 PH: (867) 873 2520 WEB: WWW.ARCAN.NT.CA AIN THE PROPERTY OF

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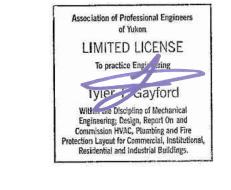


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PERMIT TO PRACTICE CONCEPT ENGINEERING INC. Signature ____ Date: APRIL 202023 PERMIT NUMBER: PP752 The Association of Professional Engineers of Yukon

PERMIT TO PRACTICE & SEAL



BY DD/MMM/YYYY 2022-12-09 50% REVIEW 95% REVIEW TL 2023-02-03 TL 2023-03-03 100% REVIEW TTG 2023-04-20 03 CONSTRUCTION

CHECKED BY

TTG

YUKON TEACHERS' ASSOCIATION **HEAD OFFICE**

PROJECT TITLE

SPECIFICATION LOT 38, BLOCK 316 - 151 BLACK ST

REVISION PROJECT No 22037

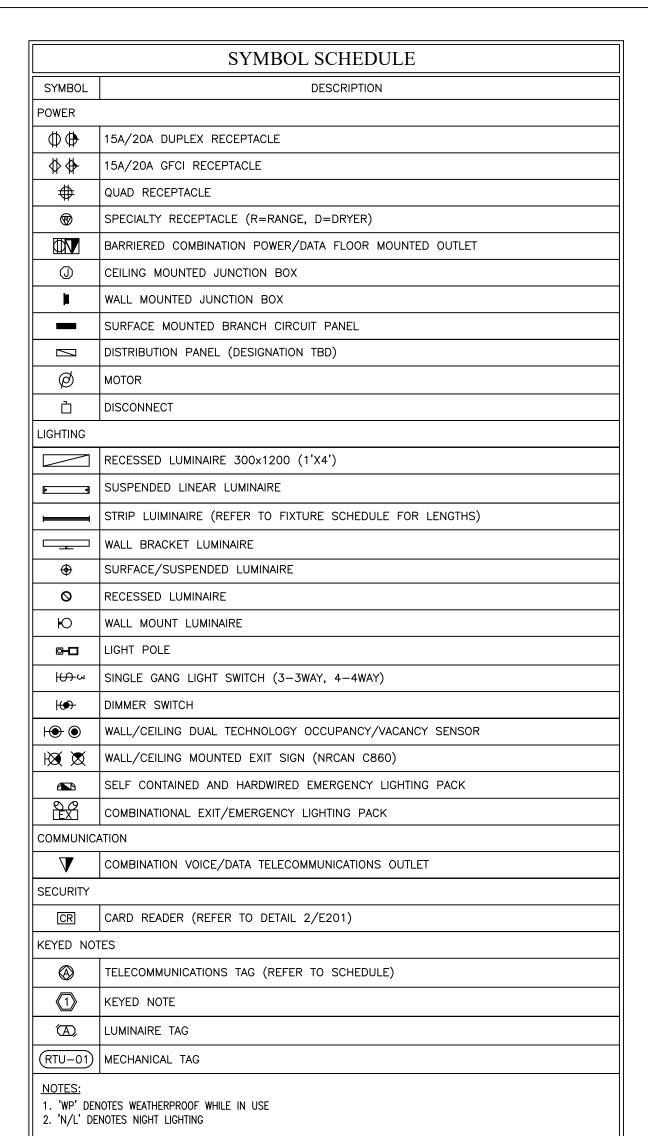
02

DWG No

2023-04-19

DRAWING TITLE

MECHANICAL



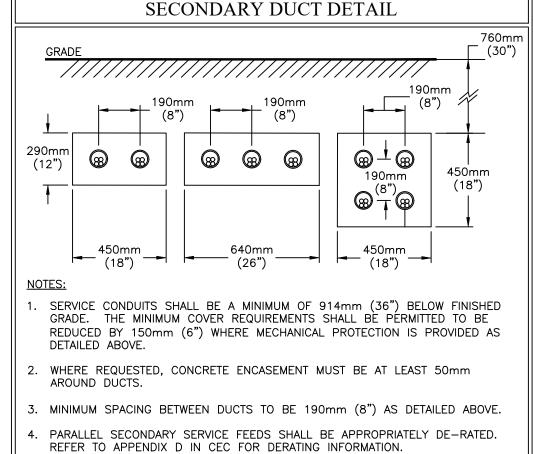
GENERAL SITE NOTES

. CONDUITS: RIGID PVC OR DB11 (SUITABLE FOR DIRECT BURIAL). MINIMUM 1m BELOW FINISHED GRADE. RIGID PVC MUST BE UTILIZED FOR ENTRANCE INTO TRANSFORMER VAULT.

- 2. MAINTAIN 2m HORIZONTAL CLEARANCE FROM GAS LINE AND 3m HORIZONTAL CLEARANCE FROM WATER/STORM/SANITARY LINES FROM PRIMARY DUCTS AND EDGE OF PADMOUNT TRANSFORMERS.
- 3. COORDINATE EXACT SERVICE LOCATIONS WITH MECHANICAL SERVICES AND EASEMENTS TO MAINTAIN PROPER CLEARANCES.
- 4. TELEPHONE SERVICE DUCTS TO BE ORANGE IN COLOR AS PER TSERVICE
- PROVIDER REQUIREMENTS.

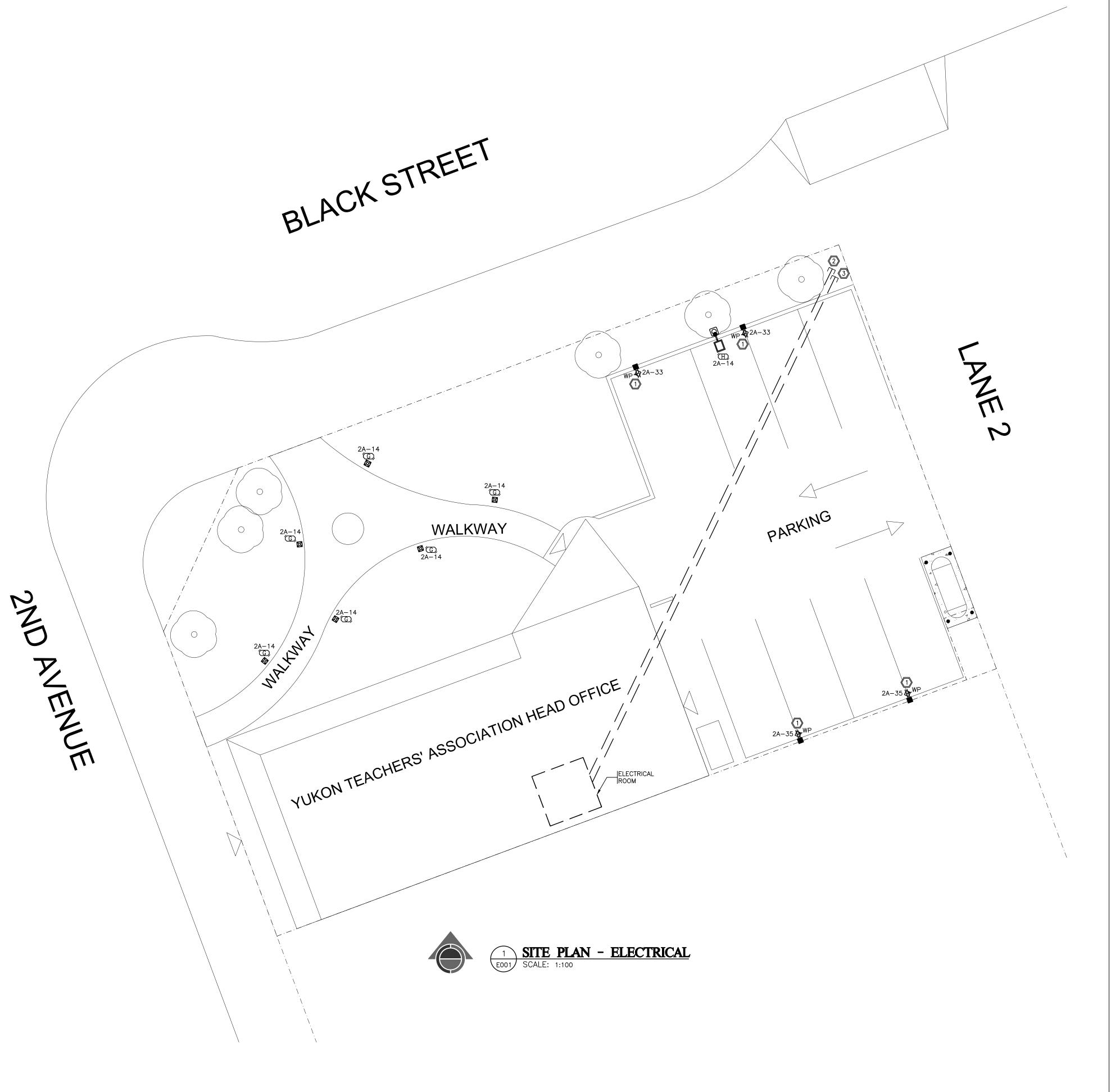
5. ALL SERVICE ENTRY POINTS SHALL BE CONFIRMED WITH UTILITIES PRIOR TO

- WORK PROCEEDING. 6. INSTALLATION SHALL BE TO UTILITY COMPANY REQUIREMENTS.
- 7. PROVIDE 4"x4" PRESSURE TREATED WOOD POSTS TO MARK ALL CONDUIT STUBS. RECORD DRAWINGS MUST INDICATE DIMENSIONS OF ALL STUBS.
- 8. CONDUCTORS FOR 120V CIRCUITS SHALL BE SIZED AS REQUIRED TO ACCOMMODATE VOLTAGE DROPS PER C.E.C. REQUIREMENTS.



KEY NOTES

- ELECTRICAL CONTRACTOR SHALL PROVIDE RELAY OR CONTACTOR BASED CONTROL SYSTEM SUCH THAT RAIL MOUNTED CAR RECEPTACLES CAN BE CONTROLLED BASED ON TEMPERATURE AND TIME IN A 50/50 GROUPED MANNER. TEMPERATURE AND TIME SETTINGS TO BE COORDINATED WITH END-USER PRIOR TO OCCUPANCY.
- PROVIDE 1-103mm SECONDARY DUCTS c/w 4#3/0 XL (200A 3ø 4W SERVICE) FROM MAIN DISTRIBUTION PROPERTY LINE. COORDINATE EXACT REQUIREMENTS WITH SERVICE PROVIDER PRIOR TO ROUGH-IN.
- PROVIDE 2-103mm TELECOMMUNICATION DUCTS c/w PULL STRING FROM UTILITY SERVICE ENTRANCE LOCATION TO MAIN TELECOMMUNICATIONS BACKBOARD FOR TELEPHONE/CATV SERVICES. COORDINATE EXACT SERVICE ENTRANCE LOCATIONS WITH SERVICE PROVIDER(S) PRIOR TO ROUGH-IN.





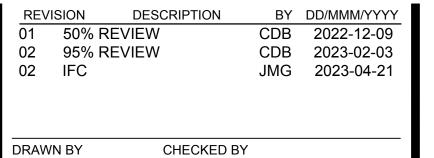




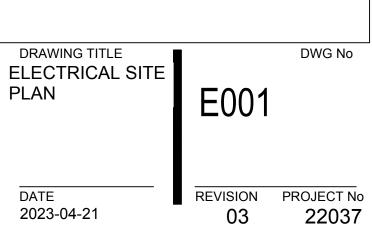




CDB



YUKON TEACHERS' ASSOCIATION **HEAD OFFICE** LOT 38, BLOCK 316 - 151 BLACK ST



DATE 2023-04-21

2 2 3 3 3 3 KEY NOTES ELECTRICAL CONTRACTOR TO PROVIDE HARDWIRED CONNECTION FOR EXTERIOR SIGNAGE TO BE CONTROLLED VIA TIMECLOCK. SIGNAGE AND FINAL CONNECTION TO BE BY OTHERS. OFFICE STAFF ENTRANCE OPEN TO RECEPTION **ABOVE** EM (BREAKOUT STORAGE PRINTING (X) 6 6 2A-10 (M) O 2A-14 (C) **(**) 2Á-10 KITCHEN OFFICE COMMON WASHROOM MECHANICAL **W**ASHROOM LARGE BOARDROOM BREAKOUT JANITOR UNFINISHED OFFICE FUTURE PD 2A 10 (EX) (EX) MAIN FLOOR PLAN LIGHTING
E101 SCALE: 1:50 SECOND FLOOR PLAN - LIGHTING

SCALE: 1:50 PERMIT TO PRACTICE & SEAL PROJECT TITLE CONSULTANTS COPYRIGHT CLIENT DWG No 88 ENTERPRISE DR YELLOWKNIFE, NT X1A 0G2 PH: (867) 873 2520 LIGHTING PLANS YUKON TEACHERS' ASSOCIATION PERMIT TO PRACTICE WEB: WWW.ARCAN.NT.CA E101 CONCEPT ENGINEERING INC **HEAD OFFICE** of Education Professionals Signature







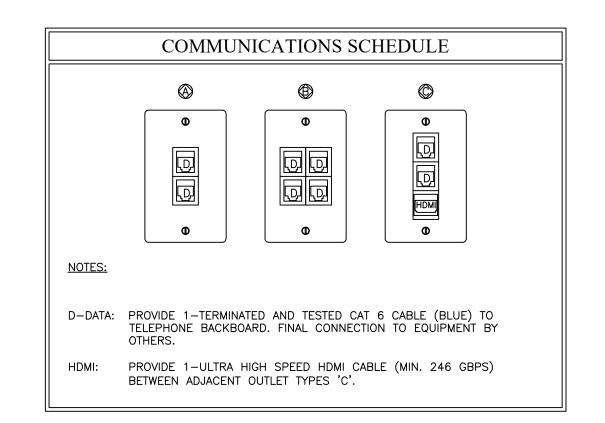




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01	50% RE	EVIEW		CDB	2022-12-09	
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02	IFC			JMG	2023-04-21	
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LOT 38, BLOCK 316 - 151 BLACK ST 2023-04-21

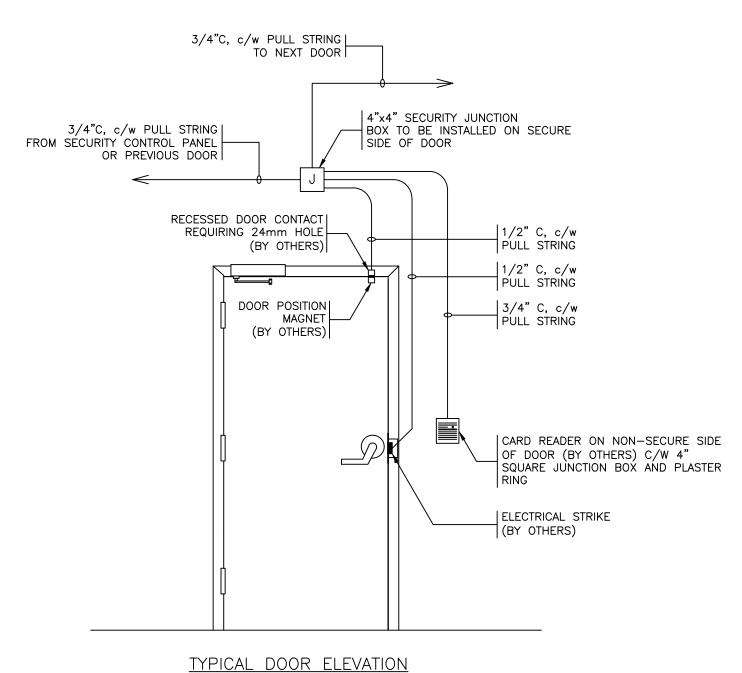
REVISION PROJECT No 22037



KEY NOTES

PROVIDE 8'x4'x3/4" G1S PAINTED PLYWOOD BACKBOARD FOR MOUNTING OF TELECOMMUNICATIONS EQUIPMENT. PROVIDE MULTI-TAP GROUNDING STRIP AND #8 GND.

ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 15A GFCI RATER RECEPTACLE UNDER SINK FOR CONNECTION OF AUTOMATIC FLUSH/SENSORED FAUCET TRANSFORMER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH—IN.

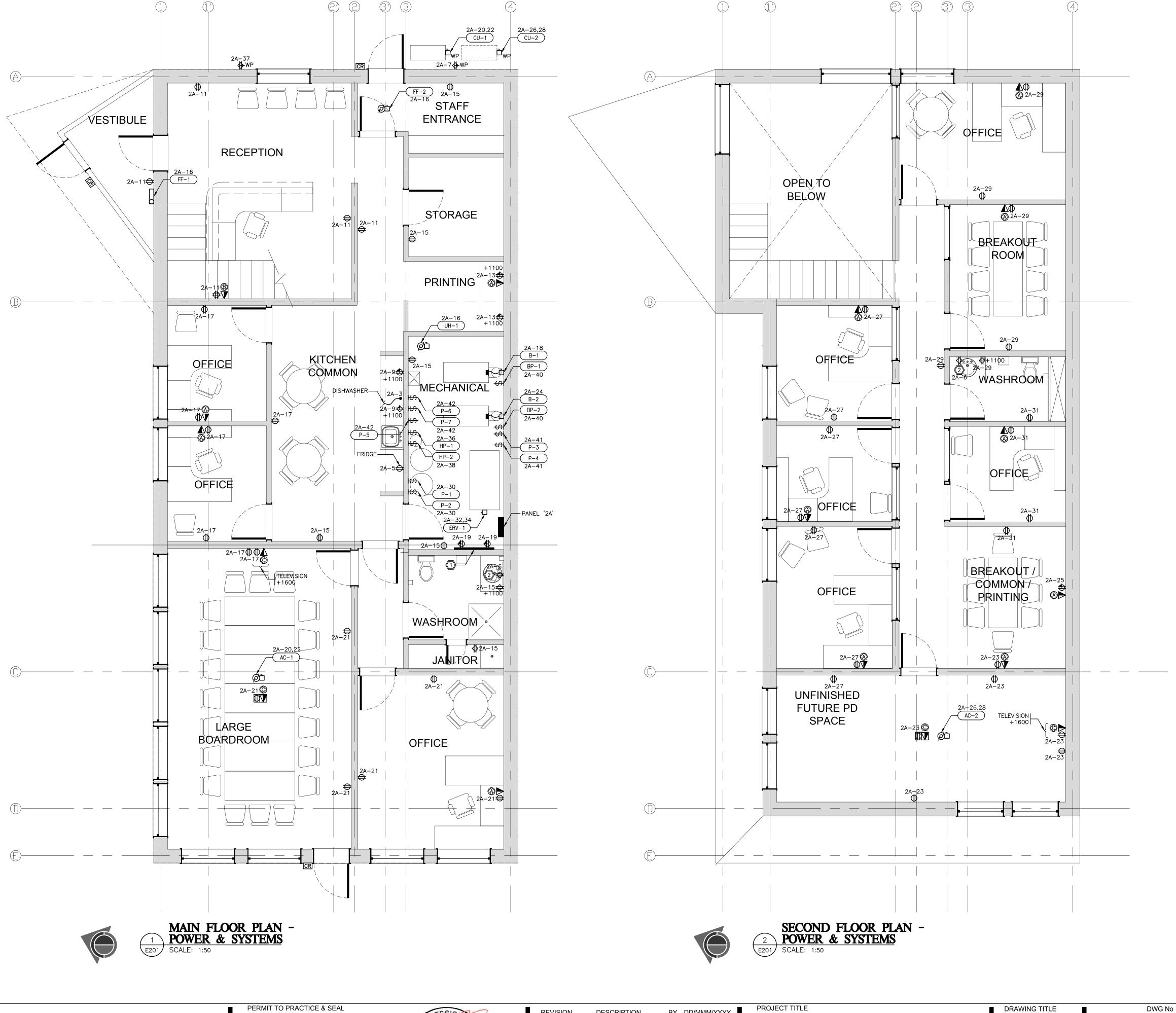


NOTES:

1. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL CONDUIT COMPLETE WITH PULL STRING TO SECURITY DEVICES. ALL WIRING AND DEVICES BY OTHERS.

- 2. PROVIDE FOAM BLOCKING AS NECESSARY FOR CONCRETE FILLED DOOR FRAMES.
- 2. ALLOW FOR EASY ACCESS TO DOOR JUNCTION BOXES AND POWER SUPPLIES FOR INSTALLATION AND FUTURE
- 3. THIS DRAWING IS TO BE USED FOR INFORMATION AND/OR PRICING ONLY AND IS NOT INTENDED FOR CONSTRUCTION.







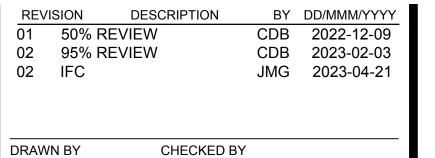








CDB



JMG

YUKON TEACHERS' ASSOCIATION HEAD OFFICE

LOT 38, BLOCK 316 - 151 BLACK ST.

DRAWING TITLE
POWER &
SYSTEM PLANS

E201

DATE
2023-04-21

REVISION PROJECT No
3 22037

	THE MANUFACTURES COLOR WOLF WILLIAM STORY											
TYPE	MANUFACTURER	CATALOGUE NUMBER	DESCRIPTION	LAMPS	COLOR TEMP	VOLTS	MOUNTING	NOTES				
Α	METALUX	14CGT4040C	1' X4' RECESSED LUMINAIRE	39.4W LED	3500K	120V	RECESSED					
В	METALUX	8SLSTP8040DD-UNV	8' STRIP LUMINAIRE	76W LED	3500K	120V	SURFACE					
B1	METALUX	4SLSTP4040DD-120V	4' STRIP LUMINAIRE	40W LED	3500K	120V	SURFACE					
С	MAXLITE	RCF613CSW-V2	RECESSED DOWNLIGHT	13W LED	3500K	120V	RECESSED					
D	SPI LIGHTING	SIW121693FT-L10W UNV 3500K DFMA01 REC BAL	VANITY LUMINAIRE	10W LED	3500K	120V	SURFACE	4				
F	FLUXWERX	FD1 A A C 35 S 6 G F2 M 3	6' SUSPENDED LINEAR LUMINAIRE	43.5W LED	3500K	120V	SUSPENDED					
F1	FLUXWERX	FD1 A A C 35 S 8 S F2 M 3	8' SUSPENDED LINEAR LUMINAIRE	58W LED	3500K	120V	SUSPENDED					
G	LUMIERE	1900-OA 30 12LED3025 UNV BK 7048- PK	LANDSCAPE BOLLARD	12W LED	3000K	120V	POLE	3				
Н	LUMARK	PRV PA2 A 730 U T4W SA BK C/W SSA 5" M 18' W D	PARKING POLE LUMINAIRE	113W LED	3000K	120V	POLE	3				
J	LUMARK	PRV-P PA1 A 730 U T3 SM BK	EXTERIOR WALL PACK	31W LED	3000K	120V	SURFACE	3				
К	SGI LIGHTING	FLEX-P-BASIC-WHT SW 85 C/W TRACK LP 2410 CST WHT FF	UNCER CABINET LIGHTING	1.6W LED/FT	3500K	120V	SURFACE	2				
L	SPI LIGHTING	AIP12159 L71W 120 3500K H02 BCE DF_DIM1	SUSPENDED FEATURE PENDENT	71W LED	3500K	120V	SUSPENDED					
М	LUMIERE	9003 W2 RW LED3090 M M BK L2 UNV RSM	EXTERIOR FAÇADE LUMINAIRE	20W LED	3000K	120V	SURFACE	3				
N	HALO	L651 P P L992 C/W 4X L 809 16 WS 935 P	TRACK LIGHTING	14.3W LED/HEAD	3500K	120V	SUSPENDED					
EM	AIMLITE	EBIM-2	HARDWIRED, SELF CONTAINED EMERGENCY LIGHT			120V	WALL					
EX	AIMLITE	RPNP	SELF POWERED PICTOGRAM EXIT LIGHT			120V	UNIVERSAL	1				
EX1	AIMLITE	CPRNP-2SM	COMBINATION PICTOGRAM EXIT/EMERGENCY LIGHT			120V	UNIVERSAL	1				

1. REFER TO DRAWINGS FOR DIRECTIONAL ARROW DESIGNATION AND MOUNTING TYPE

REFER TO DRAWINGS FOR REQUIRED LENGTHS. ELECTRICAL CONTRACTOR RESONIBSLE FOR SUPPLYING AND INSTALLING ALL COMPONENTS REQUIRED FOR INSTALL (DRIVERS, MOUNTING CHANNELS, ETC.)

3. FIXTURE TO BE CONTROLLED VIA ASTRONOMICAL TIMELOCK SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.

4. COORDINATE EXACT MOUNTING HEIGHT ON SITE WITH GENERAL AND MILLWORK CONTRACTORS.

* ALL LIGHTING TO BE CSA APPROVED

* * ALTERNATES MUST BE APPROVED BY CONCEPT ENGINEERING AND MUST BE EQUAL TO OR BETTER THAN SPECIFIED PRODUCT.

CONDENSING UNITS CU-1 CONDENSING UNIT EXTERIOR 208 1 20.0 20.0 30A 2P 2 4#10 21 INTERLO CU-2 CONDENSING UNIT EXTERIOR 208 1 20.0 20.0 30A 2P 2 4#10 21 INTERLO CU-2 CONDENSING UNIT EXTERIOR 208 1 20.0 20.0 30A 2P 2 4#10 21 INTERLO AC-1 AIR CONDITIONER LARGE BOARDROOM 208 1 2.0 2.0 15A 2P 2 4#12 16 T-STA AC-2 AIR CONDITIONER FUTURE PD SPACE 208 1 2.0 2.0 15A 2P 2 4#12 16 T-STA AC-2 AIR CONDITIONER FUTURE PD SPACE 208 1 2.0 2.0 15A 2P 2 4#12 16 T-STA BOILER UNITS B-1 B-1 BOILER MECHANICAL 120 1 12.5 1.5 20A 1P 2 4#12 16 B-2 BOILER MECHANICAL 120 1 12.5 1.5 20A 1P 2 4#12 16 P-1 PUMPS PUMPS P-1 PUMP MECHANICAL 120 1 1.5 1.5 20A 1P 2 4#12 16 P-2 PUMP MECHANICAL 130 1 1.5 1.5 20A 1P 2 4#12 16 P-3 PUMP MECHANICAL 130 1 1.5 1.5 20A 1P 2 4#12 16 P-3 PUMP MECHANICAL 130 1 1.5 1.5 20A 1P 2 4#12 16 P-3 PUMP MECHANICAL 130 1 1.5 1.5 20A 1P 2 4#12 16 P-3 PUMP MECHANICAL 130 1 1.5 1.5 20A 1P 2 4#12 16 P-4 PUMP MECHANICAL 130 1 1.5 1.5 20A 1P 2 4#12 16 P-5 PUMP MECHANICAL 130 1 1.5 1.5 20A 1P 2 4#12 16 P-5 PUMP MECHANICAL 130 1 1.5 1.5 20A 1P 2 4#12 16 P-5 PUMP MECHANICAL 130 1 1.5 1.5 20A 1P 2 4#12 16 P-5 PUMP MECHANICAL 130 1 1.5 1.5 20A 1P 2 4#12 16 P-5 PUMP MECHANICAL 130 1 1.5 1.5 20A 1P 2 4#12 16 P-5 PUMP MECHANICAL 130 1 1.5 1.5 20A 1P 2 4#12 16 P-5 PUMP MECHANICAL 130 1 1.5 1.5 20A 1P 2 4#12 16 P-5 PUMP MECHANICAL 130 1 1.5 1.5 20A 1P 2 4#12 16 P-5 PUMP MECHANICAL 130 1 1.5 1.5 20A 1P 2 4#12 16 P-5 PUMP MECHANICAL 130 1 1.5 1.5 20A 1P 2 4#12 16 P-7 PUMP MECHANICAL 130 1 1.5 1.5 1.5 20A 1P 2 4#12 16 P-7 PUMP MECHANICAL 130 1 1.5 1.5 1.5 20A 1P 2 4#12 16 P-7 PUMP MECHANICAL 130 1 1.5 1.5 1.5 20A 1P 2 4#12 16 P-7 PUMP MECHANICAL 130 1 1.5 1.5 1.5 1.5 20A 1P 2 4#12 16 P-7 PUMP MECHANICAL 130 1 1.5 1.5 1.5 1.5 20A 1P 2 4#12 16 P-7 PUMP MECHANICAL 130 1 1.5 1.5 1.5 1.5 1.5 20A 1P 2 2 #112 16 P-7 PUMP MECHANICAL 130 1 1.5 1.5 1.5 1.5 1.5 20A 1P 2 2 #112 16 P-7 PUMP MECHANICAL 130 1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	MECHANICAL SCHEDULE															
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VENTILATOR	MOTOR IAG	DESCRIPTION	LOCATION	HP	VOLT	PH	FLA	MCA	KW	SIZ	ZE	FEI	EDER SIZE	SIZE (mm)	CONTROL	NOTES
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A/C UNITS AC-1 AIR CONDITIONER LARGE BOARDROOM 208 1 2.0 2.0 15A 2P 2 #12 16 T-STA AC-2 AIR CONDITIONER FUTURE PD SPACE 208 1 2.0 2.0 15A 2P 2 #12 16 T-STA BOILER UNITS B-1 BOILER MECHANICAL 120 1 12.5 1.5 20A 1P 2 #12 16 B-2 BOILER MECHANICAL 120 1 12.5 1.5 20A 1P 2 #12 16 PUMPS P-1 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-2 PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 P-3 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-4 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-5 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-5 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-6 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL 1 1 0.0 10 1 1 0.0 1	CU-1	CONDENSING UNIT	EXTERIOR		208	1	20.0	20.0		30A	2P	2	#10	21	INTERLOCK	2
AC-1 AIR CONDITIONER LARGE BOARDROOM 208 1 2.0 2.0 15A 2P 2 #12 16 T-STA AC-2 AIR CONDITIONER FUTURE PD SPACE 208 1 2.0 2.0 15A 2P 2 #12 16 T-STA AC-2 AIR CONDITIONER FUTURE PD SPACE 208 1 2.0 2.0 15A 2P 2 #12 16 T-STA AC-2 AIR CONDITIONER FUTURE PD SPACE 208 1 2.0 2.0 15A 2P 2 #12 16 T-STA AC-2 AIR CONDITIONER FUTURE PD SPACE 208 1 2.0 2.0 15A 2P 2 #12 16 T-STA AC-2 BOILER MECHANICAL 120 1 12.5 1.5 20A 1P 2 #12 16 T-STA AC-2 BOILER MECHANICAL 120 1 12.5 1.5 20A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL 120 1 12.5 1.5 20A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL 120 1 1 0.5 1 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL PRAC 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL 0.3 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL 0.3 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL 0.3 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL 0.3 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL 0.3 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL 0.3 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL 0.3 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL 0.3 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL 0.3 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL 0.3 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL 0.3 120 1 0.5 15A 1P 2 #12 16 T-STA AC-2 PUMP MECHANICAL 0.3 120 1 0.5 T-STA AC-2 PUMP MECHANICAL 0.3	CU-2	CONDENSING UNIT	EXTERIOR		208	1	20.0	20.0		30A	2P	2	#10	21	INTERLOCK	1,2
AC-2 AIR CONDITIONER FUTURE PD SPACE 208 1 2.0 2.0 15A 2P 2 #12 16 T-STA	A/C UNITS					[-										
BOILER UNITS BOILER MECHANICAL 120 1 12.5 1.5 20A 1P 2 #12 16	AC-1	AIR CONDITIONER	LARGE BOARDROOM		208	1	2.0	2.0		15A	2P	2	#12	16	T-STAT	
B-1 BOILER MECHANICAL 120 1 12.5 1.5 20A 1P 2 #12 16 B-2 BOILER MECHANICAL 120 1 12.5 1.5 20A 1P 2 #12 16 PUMPS P-1 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-2 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-3 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-4 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-5 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-6 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-6 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-1 BOILER PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 P-2 BOILER PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 HP-1 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 HEATERS	AC-2	AIR CONDITIONER	FUTURE PD SPACE		208	1	2.0	2.0		15A	2P	2	#12	16	T-STAT	1
B-2 BOILER MECHANICAL 120 1 12.5 1.5 20A 1P 2 #12 16	BOILER UNITS					(2)						- C				
PUMPS P-1 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-2 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-3 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-4 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-5 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-6 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-1 BOILER PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 BP-1 BOILER PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 BP-2 BOILER PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 HP-1 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 HP-2 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 HEATERS	B-1	BOILER	MECHANICAL		120	1	12.5		1.5	20A	1P	2	#12	16		
P-1 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-2 PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 P-3 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-4 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-5 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-6 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-1 BOILER PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 P-2 BOILER PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 P-1 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 P-2 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 P-2 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16	B-2	BOILER	MECHANICAL		120	1	12.5		1.5	20A	1P	2	#12	16		
P-2 PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 P-3 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-4 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-5 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-6 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-1 BOILER PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 P-2 BOILER PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 P-1 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 P-2 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 P-2 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 P-2 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16	PUMPS									92 Y						
P-3 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-4 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-5 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-6 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 BP-1 BOILER PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 BP-2 BOILER PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 HP-1 HEATING PUMP MECHANICAL 1.0	P-1	PUMP	MECHANICAL	FRAC	120	1	0.5			15A	1P	2	#12	16		3
P-4 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-5 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-6 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 BP-1 BOILER PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 BP-2 BOILER PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 HP-1 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 HEATERS HEATING PUMP MECHANICAL <td< td=""><td>P-2</td><td>PUMP</td><td>MECHANICAL</td><td>0.3</td><td>120</td><td>1</td><td>5.8</td><td></td><td></td><td>15A</td><td>1P</td><td>2</td><td>#12</td><td>16</td><td></td><td>3</td></td<>	P-2	PUMP	MECHANICAL	0.3	120	1	5.8			15A	1P	2	#12	16		3
P-5 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-6 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 BP-1 BOILER PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 BP-2 BOILER PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 HP-1 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 HP-2 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 HEATERS	P-3	PUMP	MECHANICAL	FRAC	120	1	0.5			15A	1P	2	#12	16		3
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P-7 PUMP MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 BP-1 BOILER PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 BP-2 BOILER PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 HP-1 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 HP-2 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 HEATERS	P-5	PUMP	MECHANICAL	FRAC	120	1	0.5			15A	1P	2	#12	16		3
BP-1 BOILER PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 BP-2 BOILER PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 HP-1 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 HP-2 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 HEATERS	P-6	PUMP	MECHANICAL	FRAC	120	1	0.5			15A	1P	2	#12	16		3
BP-2 BOILER PUMP MECHANICAL 0.3 120 1 5.8 15A 1P 2 #12 16 HP-1 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 HP-2 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 HEATERS	P-7	PUMP	MECHANICAL	FRAC	120	1	0.5			15A	1P	2	#12	16		3
HP-1 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 HP-2 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 HEATERS	BP-1	BOILER PUMP	MECHANICAL	0.3	120	1	5.8			15A	1P	2	#12	16		3
HP-2 HEATING PUMP MECHANICAL 1.0 120 1 16.0 40A 1P 2 #12 16 HEATERS	BP-2	BOILER PUMP	MECHANICAL	0.3	120	1	5.8			15A	1P	2	#12	16		3
HEATERS HEATERS	HP-1	HEATING PUMP	MECHANICAL	1.0	120	1	16.0			40A	1P	2	#12	16		3
	HP-2	HEATING PUMP	MECHANICAL	1.0	120	1	16.0			40A	1P	2	#12	16		3
UH-1 UNIT HEATER MECHANICAL FRAC 120 1 0.5 15A 1P 2 #12 16 T-STA	HEATERS															
	UH-1	UNIT HEATER	MECHANICAL	FRAC	120	1	0.5			15A	1P	2	#12	16	T-STAT	
FF-1 ELECTRIC FORCE FLOW VESTIBULE FRAC 120 1 0.5 15A 1P 2 #12 16 T-STA	FF-1	ELECTRIC FORCE FLOW	VESTIBULE	FRAC	120	1	0.5			15A	1P	2	#12	16	T-STAT	
FF-2 ELECTRIC FORCE FLOW STAFF ENTRANCE FRAC 120 1 0.5 15A 1P 2 #12 16 T-STA	FF-2	ELECTRIC FORCE FLOW	STAFF ENTRANCE	FRAC	120	1	0.5			15A	1P	2	#12	16	T-STAT	

NOTES:

- ELECTRICAL CONTRACTOR TO ROUGH-IN MECHANICAL EQUIPMENT NOTED FOR FUTURE INSTALL.
 TO BE INSTALL.
- 2. TO BE INETRLOCKED WITH RESPECTIVE AIR CONDITIONER.
- 3. COORDINATE EXACT LOCATION OF EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

 * CONFIRM VOLTAGE, PHASE AND AMPS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN

			P	AN	IEL	_ 2	Α			
VOLTAGE:	120	/ 208						LO	CATION:	MECHANICAL ROOM
PHASE:	20.00	3						FRAME	RATING:	225A
MOUNTING:	SURFAC	E			AIC RATING: 10,000 AIC					
LOAD DESCRIPTION	LOAD (KW)	BRK	CCT No.	0.000	PHAS	Theresand .	CCT No.	BRK	LOAD (KW)	LOAD DESCRIPTION
			1	X			2			
DISHWASHER		15A	3		X		4			
FRIDGE		15A	5			X	6	15A		FAUCET X-FORMER
MAINTENANCE RECEPTACLE		20A	7	X			8	15A		EXTERIOR SIGNAGE
KITCHEN RECEPTACLES		20A	9		X		10	20A		MAIN FLOOR LIGHTING
RECEPTION RECEPTACLES		15A	11			X	12	20A		SECOND FLOOR LIGHTING
PRINTING RECEPTACLES		20A	13	X	Ĵ		14	20A		SITE LIGHTING
GENERAL RECEPTACLES		15A	15		Х		16	15A		FF-1, FF-2, UH-1
OFFICE RECEPTACLES		15A	17			X	18	20A		B-1
TELECOMM. RECEPTACLES		20A	19	Х			20	204		CULA ACA
BOARDROOM RECEPTACLES		15A	21		X		22	30A	(C)	CU-1, AC-1
BOARDROOM RECEPTACLES		15A	23			X	24	20A		B-2
PRINTER		20A	25	X			26	204		0114 404
OFFICE RECEPTACLES		15A	27		X		28	30A		CU-1, AC-1
OFFICE RECEPTACLES		15A	29			X	30	15A		P-1, P-2
OFFICE RECEPTACLES		15A	31	X			32	004		EDV4
CAR PEDESTALS		20A	33		X		34	20A		ERV-1
CAR PEDESTALS		20A	35			X	36	40A		HP-1
EXTERIOR RECEPTACLES		20A	37	X	2		38	40A		HP-2
			39		X		40	15A		BP-1, BP-2
P-3, P-4			41			X	42	15A	6-	P-5, P-6, P-7
			43	Х			44			
			45		X		46			
			47			X	48		d.	
			49	X			50			
			51		X		52			
			53			X	54			
			55	Х		72.50	56		3	0
			57		X		58			
			59			X	60			

SPECIFICATION

- ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO FINAL SUBMISSION OF TENDER PRICE TO BECOME FAMILIARIZED WITH ALL EXISTING SITE CONDITIONS; THERE SHALL BE NO RECOURSE IF THE FORMER IS NOT COMPLIED WITH.
- 2. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES FOR THE EXECUTION FOR THIS WORK.
- 3. ALL WORK MUST COMPLY WITH THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE AND LOCAL INSPECTION AUTHORITIES.
- 4. SUPPLY AND INSTALL BREAKERS AS REQUIRED. BREAKERS SHALL BE BOLT IN PLACE, MOLDED CASE, AUTOMATIC AIR CIRCUIT BREAKERS WITH THERMAL AND MAGNETIC TRIPS WITH INTERRUPTING CAPACITY OF 10,000 AMPS. PROVIDE PANEL DIRECTORY (COMPUTER PRINTED, IN PLASTIC COVER).
- 5. ELECTRICAL CONTRACTOR SHALL PROVIDE CONNECTION OF ALL MECHANICAL EQUIPMENT AND CONTROLS. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATIONS AND REQUIREMENTS.
- 6. PROVIDE DISCONNECTS FOR ALL MECHANICAL EQUIPMENT CONNECTIONS AND MOTOR STARTERS FOR ALL MOTORS ABOVE 1/3HP.
- 7. ALL WIRE SHALL BE IN CONDUIT, #12 AWG R90 XL COPPER MINIMUM.
 MINIMUM #10 AWG ON ALL RUNS GREATER THAN 100'. BX CABLE PERMITTED
- FOR DROPS TO LIGHT FIXTURES ONLY.

 8. ALL EQUIPMENT TO BE LABELED WITH NAMEPLATES. ALL OUTLETS TO BE
- LABELED WITH CIRCUIT DESIGNATION.

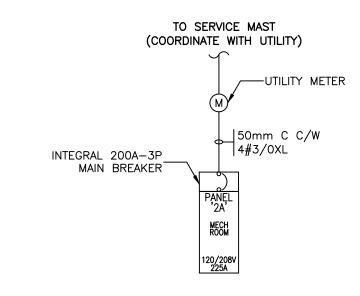
 9. WARRANTY AND GUARANTEE ELECTRICAL INSTALLATION AND EQUIPMENT FOR
- ONE (1) YEAR COMMENCING FROM DATE OF FINAL INSPECTION BY THE OWNER'S REPRESENTATIVE.
- 10. SUBMIT ONE SET OF RECORD DRAWINGS UPON COMPLETION OF PROJECT. INCLUDE COSTS FOR ENGINEER TO UPDATE DRAWINGS ELECTRONICALLY.
- COVER PLATES. PROVIDE BLANK COVER PLATES ON ALL OUTLET BOXES.

11. ALL DEVICES SHALL BE SPECIFICATION GRADE WHITE, COMPLETE WITH WHITE

- 12. WALL OUTLET BOXES TO BE SECURED BY A MINIMUM OF TWO (2) STUDS.
- 13. CONFIRM OUTLET MOUNTING HEIGHTS, LOCATIONS, ORIENTATION AND COLOUR WITH INTERIOR DESIGNER PRIOR TO ROUGH—IN. ALL DEVICES ABOVE COUNTER SHALL BE ABOVE BACKSPLASH.
- 14. ALL ELECTRICAL DEFICIENCIES NOTED ON THE FINAL INSPECTION REPORT SHALL BE COMPLETED WITH SUBMISSION OF LOCAL INSPECTION DEPARTMENT FINAL INSPECTION CERTIFICATE AND RECORD DRAWINGS TO CONCEPT ENGINEERING. WITHIN 14 DAYS OF THE DATE OF THE FINAL INSPECTION SUBSTANTIAL COMPLETION REPORT.
- 15. CONDUIT SHALL NOT BE SUPPORTED FROM TBAR OR TBAR HANGERS.
- 16. CONTACT CONCEPT ENGINEERING. FOR ROUGH—IN INSPECTION PRIOR TO APPLICATION OF DRYWALL AND INSTALLATION OF CEILING TILE.
- 17. LABEL CIRCUIT NUMBERS CONTAINED IN EACH CEILING OUTLET/JUNCTION BOX WITH PERMANENT FELT MARKER.
- 18. CONDUIT STUBS TO CEILING SPACE SHALL BE COMPLETE WITH BUSHINGS.

19. VOICE/DATA OUTLETS SHALL BE TWO GANG c/w SINGLE GANG PLASTER RING.

- 20. UTILIZE APPROPRIATE TELECOMMUNICATIONS CABLE RATING FOR DESIGNED INTENT: CMR RATE CABLING TO BE USED FOR RISERS AND CMP RATED
- INTENT: CMR RATE CABLING TO BE USED FOR RISERS AND CMP RATED CABLING TO BE USED ABOVE CEILING SPACE RETURN AIR PLENUM. OR AS APPROVED BY LOCAL JURISDICTION.
- 21. ALL CORING SHALL BE XRAYED, CONFIRM WITH LANDLORD.
- 22. FOR SECONDARY SERVICE FEEDERS, DE—RATING IS BASED ON 90°C RATED CABLING AND DISTRIBUTION GEAR. IF DISTRIBUTION GEAR IS RATED FOR LESS THAN 90°C THEN ADDITIONAL DE—RATING OF SECONDARY CONDUCTORS IS REQUIRED (CEC 4—006)
- 23. ELECTRICAL CONTRACTOR RESPONSIBLE FOR FINAL COORDINATION OF ELECTRICAL INSTALLATION WITH GENERAL CONTRACTOR AND OWNER PRIOR TO INSTALLATION.



1 ELECTRICAL SINGLE LINE DIAGRAM E500 SCALE: N.T.S.











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	REV	ISION	DESCRIPTION	BY	DD/MMM/YYYY	
	01	50% REVIEW		CDB	2022-12-09	
	02	95% F	REVIEW	CDB	2023-02-03	ı
ı	02	IFC		JMG	2023-04-21	

CHECKED BY

JMG

DRAWN BY

CDB

YUKON TEACHERS' ASSOCIATION
HEAD OFFICE

LOT 38, BLOCK 316 - 151 BLACK ST

ELECTRICAL SCHEDULES & SPECIFICATION

DATE

2023-04-21

E301

REVISION PROJECT No 22037

DWG No