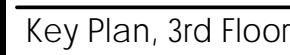


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ISSUED FOR CLIENT REVIEW	HH	BB		2021.12.23
ISSUED FOR CONSTRUCTION/BB	GH	HH		2022.05.13

Permit/Seal



Northern Health

University Hospital of
Northern British
Columbia - Cardiac
1475 Edmonton St, Prince
George, BC V2M 1S2

Project No.:144320012

File Name: N/A			
Author	FH	BB	04/27/21
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

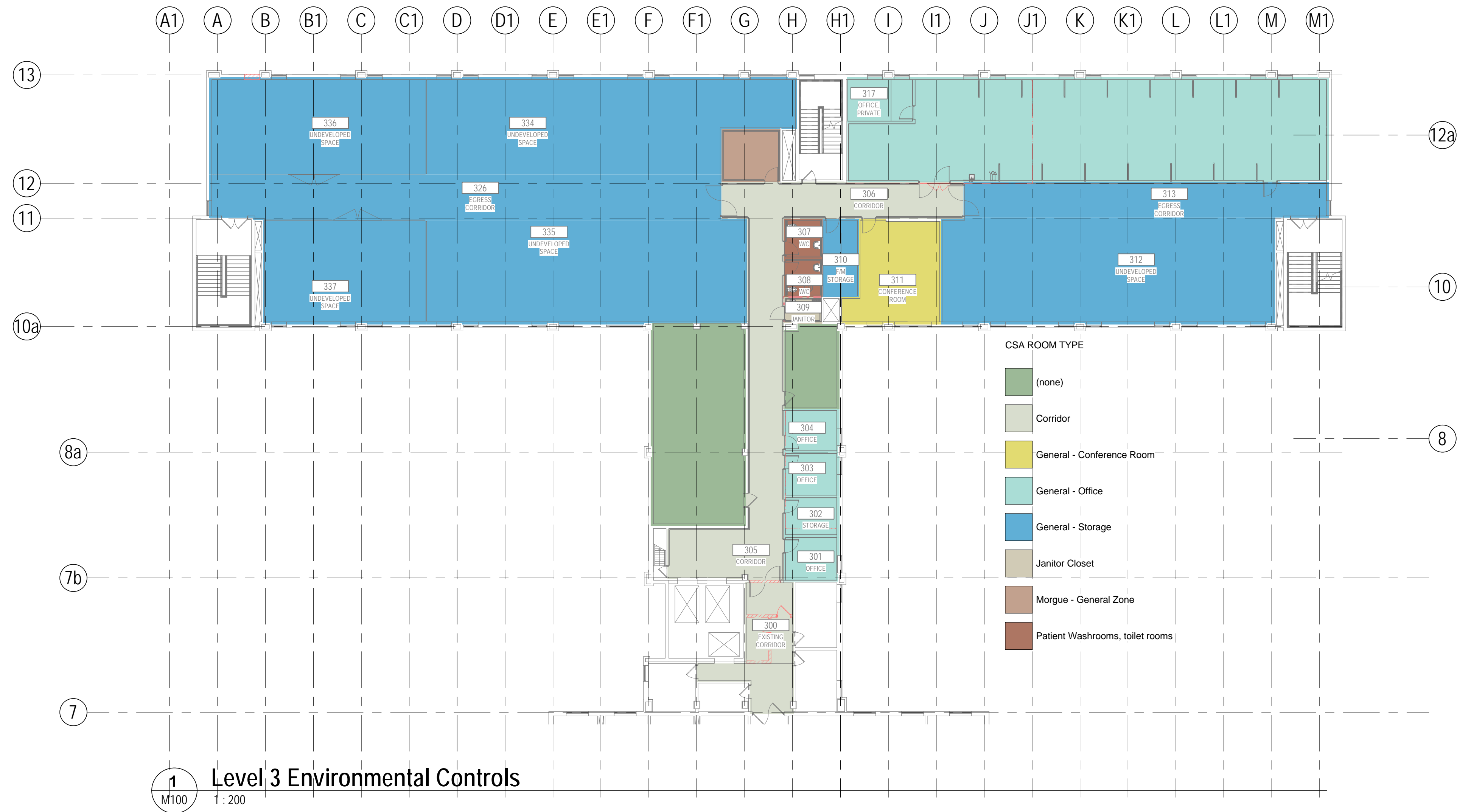
Level 3 Overall – HVAC - Environmental Controls Plan

Scale: 1 : 200

Revision:

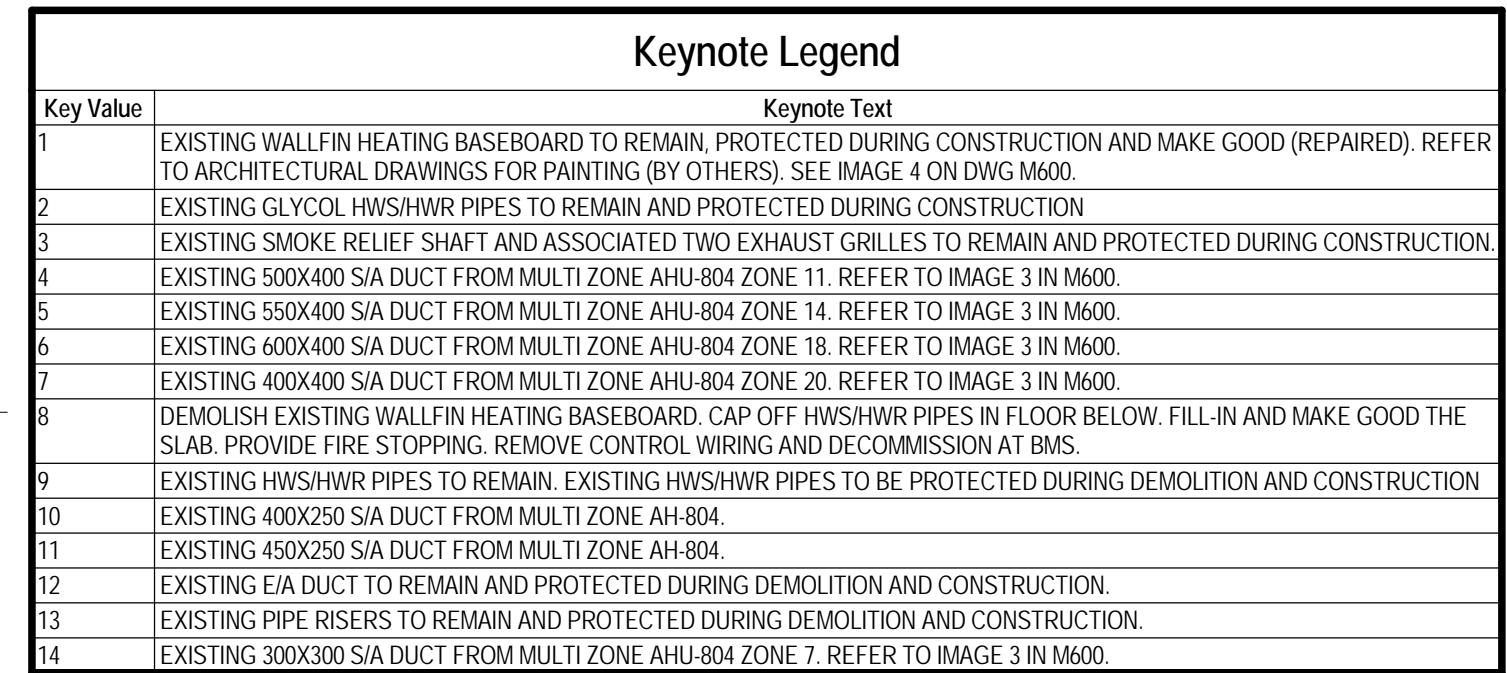
Drawing No.

M100



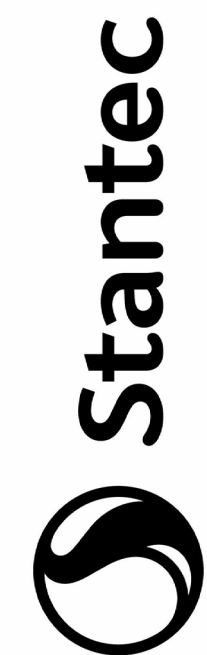
CSA Minimum Airflow Requirements																		
HVAC System	Room Number	Room Name	CSA REF.#	CSA Space Style	Space Type	Volume	Area	CSA Pressurization	CSA Exhaust	CSA Min S/A (ACH)	CSA Min O/A (ACH)	CSA Min O/A per person (l/s pp)	Minimum CSA Supply Airflow	Minimum CSA Outdoor Airflow	Actual Supply Airflow	Actual Exhaust Airflow	Actual Return Airflow	Notes
- 1	323	TEMP MORGUE	5.2	Morgue - General Zone	II	34.1 m³	14.0 m²	Neg		9	3	0	85	28	0	0	0	
AHU-5			17.5	General - Office	III	Not Placed	Not Placed	Eq		3	1	0	85		0	0	0	
AHU-5-1										3			0		0	0	0	
AHU-804	312	UNDEVELOPED SPACE	17.1	General - Storage	III	412.8 m³	169.3 m²	Eq		2	0	0	229	0	0	0	0	
AHU-804	310	F/M STORAGE	17.1	General - Storage	III	30.7 m³	12.6 m²	Eq		2	0	0	17	0	40	0	0	
AHU-804	307	W/C	29	Patient Washrooms, toilet rooms	II	14.8 m³	6.5 m²	Neg		0	0	0	0	0	0	48	0	
AHU-804	308	W/C	29	Patient Washrooms, toilet rooms	II	15.6 m³	6.4 m²	Neg		0	0	0	0	0	0	48	0	
AHU-804	303	OFFICE	17.5	General - Office	III	25.7 m³	10.5 m²	Eq		3	1	0	21	7	0	0	0	
AHU-804	302	STORAGE	17.5	General - Office	III	22.8 m³	9.4 m²	Eq		3	1	0	19	6	0	0	0	
AHU-804	305	CORRIDOR	8	Corridor	III	191.5 m³	80.2 m²	Eq		3	1	0	160	53	71	0	0	
AHU-804	317	OFFICE - PRIVATE	17.5	General - Office	III	32.3 m³	13.3 m²	Eq		3	1	0	27	9	55	110	0	
AHU-804	335	UNDEVELOPED SPACE	17.1	General - Storage	III	388.8 m³	159.5 m²	Eq		2	0	0	216	0	0	0	0	
AHU-804	306	CORRIDOR	8	Corridor	III	98.2 m³	40.4 m²	Eq		3	1	0	82	27	30	160	0	
AHU-804	313	EGRESS CORRIDOR	17.1	General - Storage	III	147.4 m³	60.4 m²	Eq		2	0	0	82	0	0	0	0	
AHU-804	311	CONFERENCE ROOM	17.2	General - Conference Room	III	101.0 m³	41.4 m²	Neg		10	0	9.5	281	380	110	464	0	
AHU-804	309	JANITOR	19	Janitor Closet	III	9.9 m³	4.0 m²	Neg		10	0	0	27	0	0	46	0	
AHU-804	334	UNDEVELOPED SPACE	17.1	General - Storage	III	376.8 m³	154.5 m²	Eq		2	0	0	209	0	0	0	0	
AHU-804	300	EXISTING CORRIDOR	8	Corridor	III	78.4 m³	32.2 m²	Eq		3	1	0	65	22	65	65	0	
AHU-804	336	UNDEVELOPED SPACE	17.1	General - Storage	III	243.1 m³	99.7 m²	Eq		2	0	0	135	0	0	0	0	
AHU-804	337	UNDEVELOPED SPACE	17.1	General - Storage	III	196.6 m³	80.6 m²	Eq		2	0	0	109	0	0	0	0	
AHU-804	326	EGRESS CORRIDOR	17.1	General - Storage	III	275.3 m³	112.9 m²	Eq		2	0	0	153	0	0	0	0	
AHU-804	304	OFFICE	17.5	General - Office	III	24.9 m³	10.2 m²	Eq		3	1	0	21	7	0	0	0	
AHU-804	301	OFFICE	17.5	General - Office	III	26.3 m³	10.8 m²	Eq		3	1	0	22	7	55	55	0	
AHU-804	322	ELECTRICAL		(none)		49.0 m³	20.1 m²								0	0	0	
AHU-804	320	MECHANICAL		(none)		214.3 m³	87.9 m²								0	0	0	
AHU-804	316	WORK ROOM	17.5	General - Office	III	542.9 m³	222.6 m²	Eq		3	1	0	452	151	362	1004	0	
AHU-804: 23										63			2328		788	2000	0	
Grand total: 25										75			2413		788	2000	0	





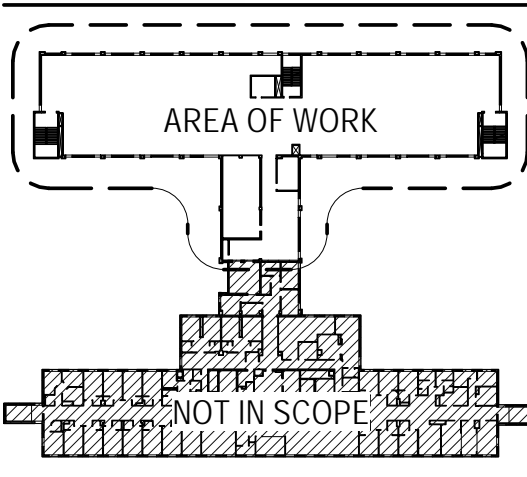
M102

1
M102



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ISSUED FOR CURB REVIEW	BB	2021.12.23
ISSUED FOR DD	BB	2021.05.07
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Northern Health

University Hospital of
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Columbia - Cardiac

1475 Edmonton St, Prince
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Project No.:144320012

File Name: N/A

Author	FH	BB	04/27/21
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

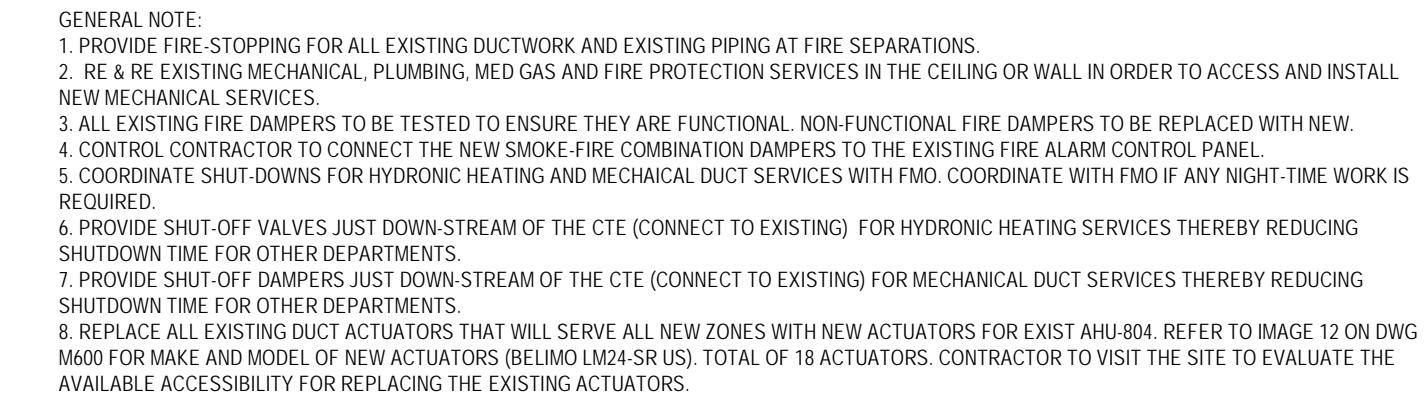
Level 3 North Biomed HVAC – Demo Plan

Scale: 1 : 100

Revision

Drawing No.

M102



The diagram shows a cross-section of a bridge deck. A central rectangular area is labeled 'AREA OF WORK'. This area is surrounded by a larger, shaded region labeled 'NOT IN SCOPE'. The 'NOT IN SCOPE' region includes the bridge deck, the supporting structure, and the ground below. The 'AREA OF WORK' is the specific area where the repair is being performed.

ISSUED FOR CONSTRUCTION/BP	CH	HH	2022.05.13
ISSUED FOR CONSTRUCTION/BP	CH	BB	2021.12.21
ISSUED FOR CLIENT REVIEW	FA	BB	2021.12.21
ISSUED FOR DD	FA	BB	2021.05.07
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northern health
the northern way of caring

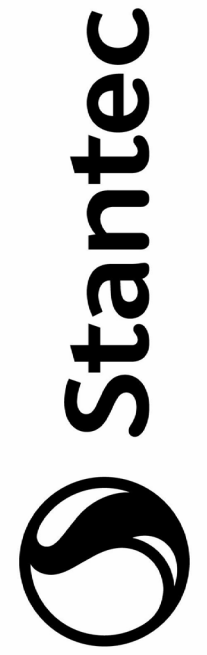
Project No.:144320012

File Name: N/A

Author	FH	BB	04/27/21
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Scale: 1 : 100
Revision:
Drawing No. **M104**

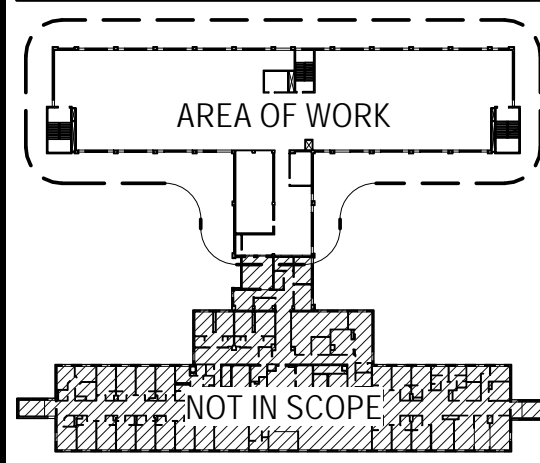
M104



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Key Plan, 3rd Floor



1 Level 3 Overall Plumbing
M200 1 : 200

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Project No.:144320012

File Name: N/A

Author	FH	BB	04/27/21
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

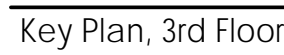
Level 3 Overall
Plumbing

Scale: 1 : 200

Revision:

Drawing No.

M200



Issued	By	For	BB	2021.05.07	YYYMMDD
Issued for DD	HH	Issued for DD	BB	2021.05.07	
Issued for client review	HH	Issued for client review	BB	2021.12.23	
Issued for design	GH	Issued for design	BB	2021.05.13	
Issued for construction/BP	GH	Issued for construction/BP	BB	2021.05.13	

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Northern Health

University Hospital of
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Project No.:144320012

File Name: N/A			
Author	FH	BB	05/03/21
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

Level 3 North Biomed Plumbing and Med Gas - Demo Plan

Scale: 1 : 100

Revision

Drawing No.

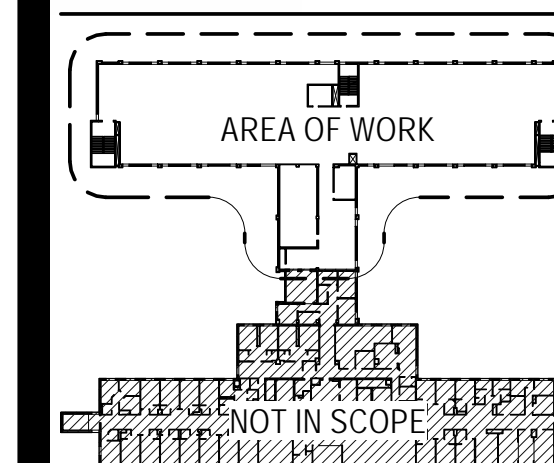
M201



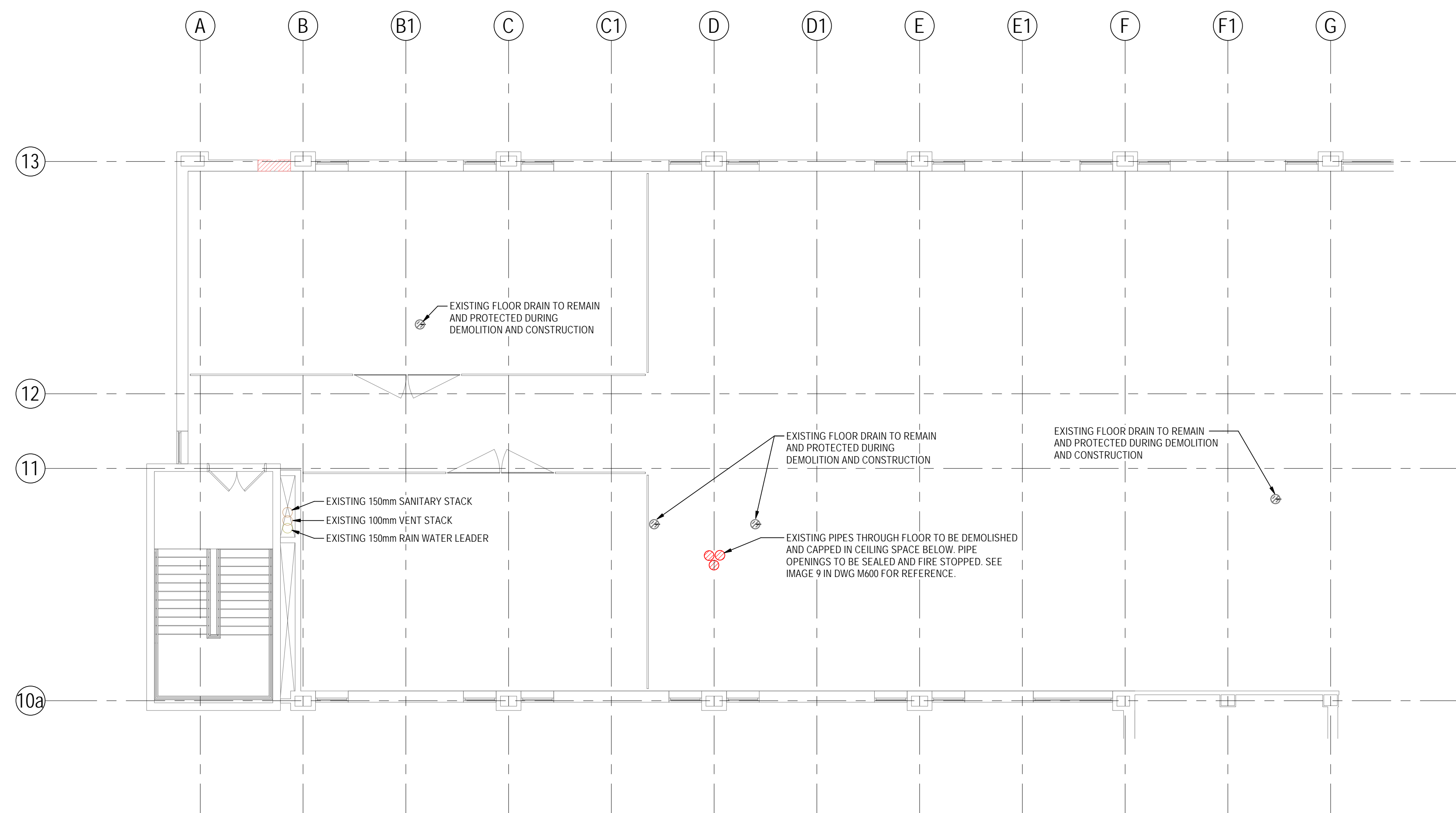
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Key Plan, 3rd Floor



1 Level 3 Plumbing - South Demo
M202 1 : 100

	ISSUED FOR CONSTRUCTION/BP	CH	FH	2020.08.13
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	ISSUED FOR CLIENT REVIEW	FH	BB	2021.12.23
	ISSUED FOR DD	FH	BB	2021.05.07



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Project No.:144320012

File Name: N/A

Author	FH	BB	05/03/21
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

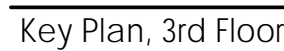
Level 3 South Biomed Plumbing - Demo Plan

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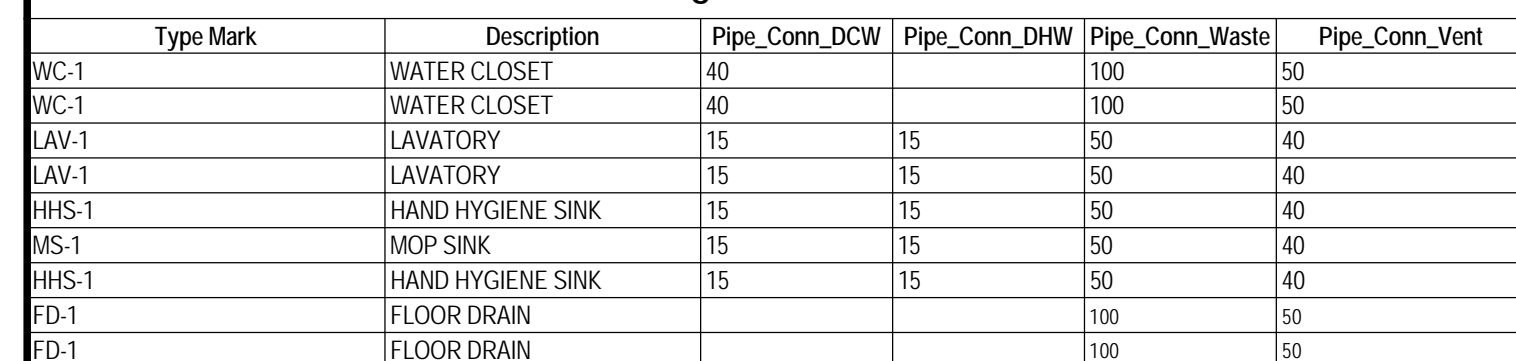
Revision:

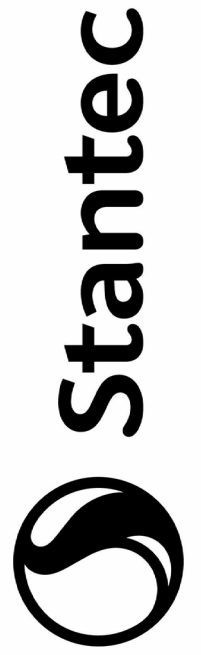
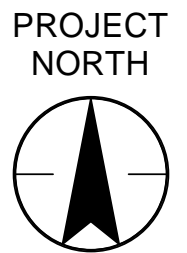
Drawing No.

M202

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M203



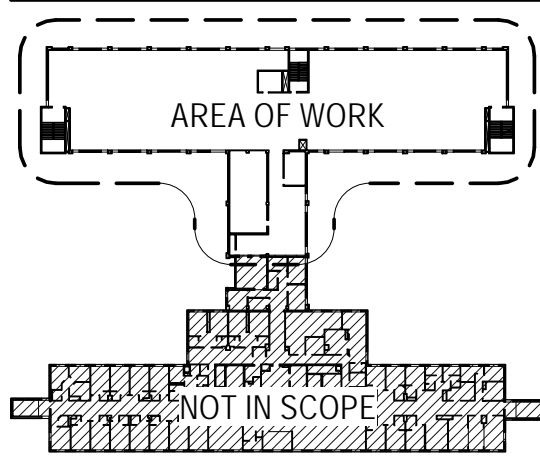


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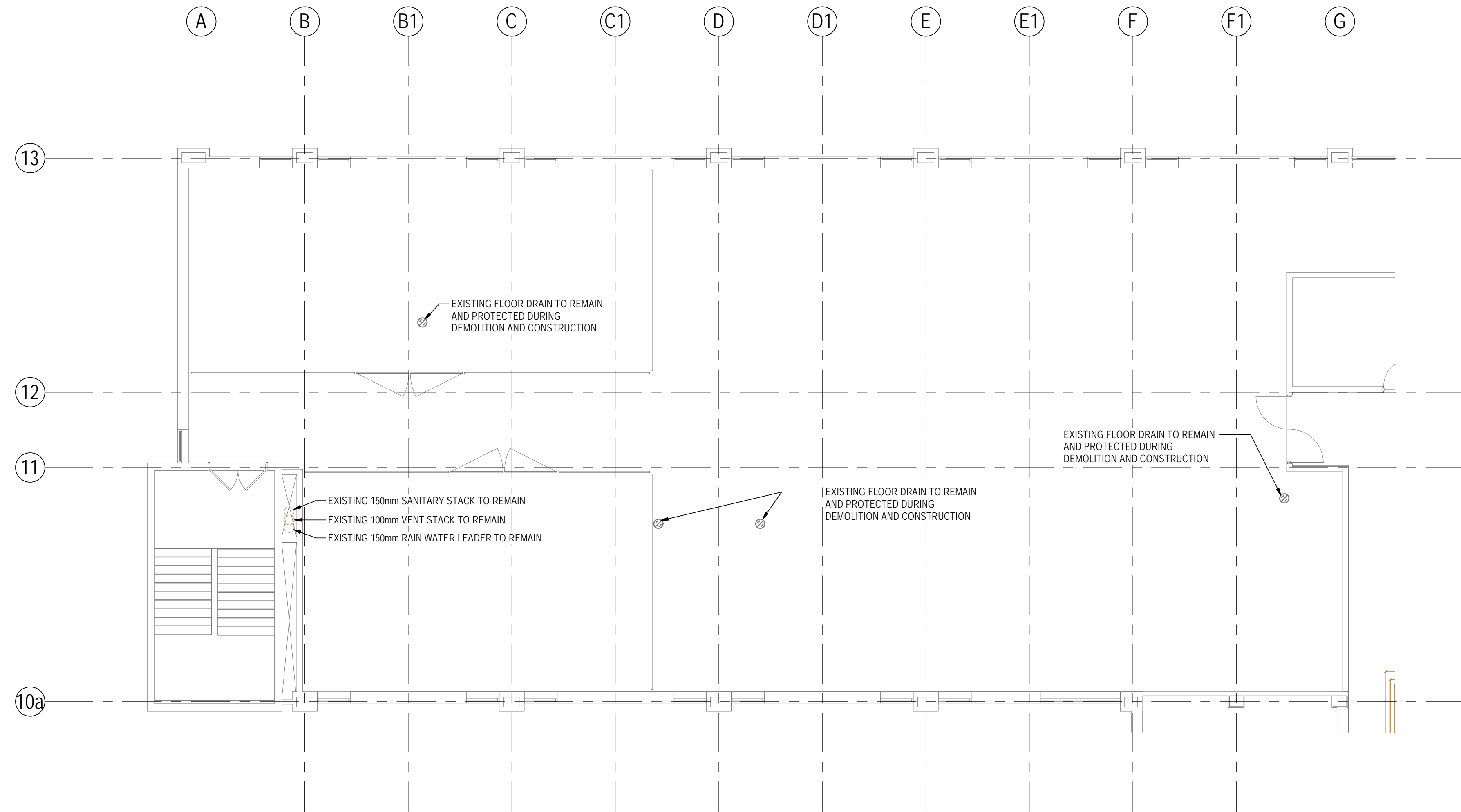
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Key Plan, 3rd Floor



GENERAL NOTE:

1. PROVIDE FIRE STOPPING FOR ALL EXISTING PIPING AT FIRE SEPARATIONS.
2. RE & RE EXISTING MECHANICAL, PLUMBING, MED GAS AND FIRE PROTECTION SERVICES IN THE CEILING OR WALL IN ORDER TO ACCESS AND INSTALL NEW MECHANICAL SERVICES.
3. COORDINATE SHUT-DOWNS FOR MEDICAL GAS AND PLUMBING SERVICES WITH FMO. COORDINATE WITH FMO IF ANY NIGHT-TIME WORK IS REQUIRED.
4. PROVIDE SHUT-OFF VALVES JUST DOWN-STREAM OF THE CTE (CONNECT TO EXISTING) THEREBY REDUCING SHUTDOWN TIME FOR OTHER DEPARTMENTS. (TYPICAL FOR ALL PLUMBING AND MEDICAL GAS SERVICES).

1 Level 3 Plumbing - South
M204 1 : 100

[illegible]

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Project No.:144320012

File Name: N/A			
<u>Author</u>	<u>FH</u>	<u>BB</u>	<u>05/03/21</u>
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
Level 3 South Biomed
Plumbing and Med
Gas - New Plan

Scale: 1 : 100

Revision: _____

Drawing No. **M204**

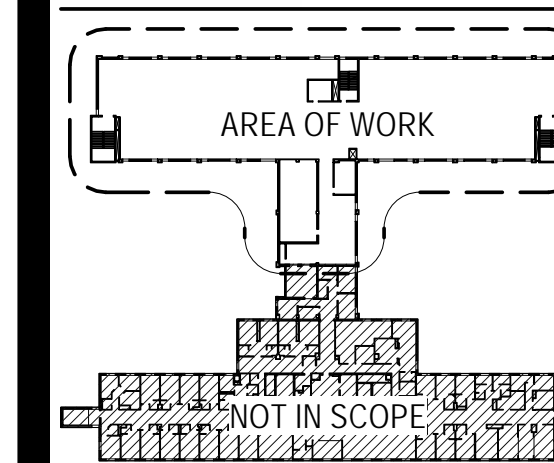
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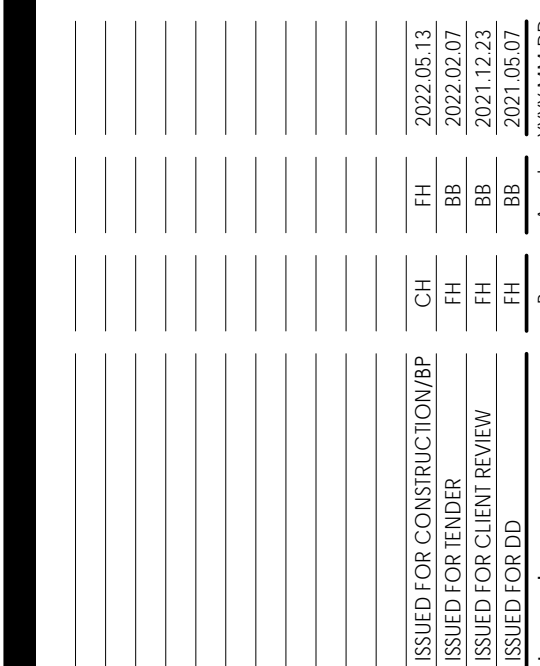
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Project No.:144320012

File Name: N/A

Author	FH	BB	08/24/21
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

Level 2 Overall
Plumbing

Scale: 1 : 200

Revision

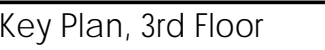
Drawing No

M300

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12/2022 10:00:43 AM

ORIGINAL SHEET: ARCH D

1 Level 2 Plumbing Overall
M300 1 : 200



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ISSUED FOR FENDER	FH	BB	2022.02.07
ISSUED FOR CLIENT REVIEW	FH	BB	2021.12.23
ISSUED FOR E2	BB	BB	2021.12.23
ISSUED	By	Appo	WYMM ED

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Northern Health
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1475 Edmonton St, Prince
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Project No.:144320012

Author	FH	BB	04/27/21
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

Level 3 Overall – Fire
Suppression – New
Plan

Scale: 1 : 200

Revision:

Drawing No.

M400



1 Level 3 Fire Protection Plan
M400 1 : 200

SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE

UNIT IDENTIFICATION			PERFORMANCE			INDOOR UNIT													OUTDOOR UNIT										MANUFACTURER	NOTES			
INDOOR UNITS MARK	OUTDOOR UNIT MARK	ROOM(S) SERVED	EER	REFRIG TYPE	REFRIG CHARGE (kg)	TOTAL COOLING CAPACITY (Watts)	SENSIBLE CAPACITY (Watts)	HEATING CAPACITY (Watts)	AIR FLOW (l/s)	EDB (°C)	EWB (°C)	FILTER RATING (MERV)	MOUNTING	CONDENSATE PUMP REQUIRED	ELECTRICAL				OPERATING WEIGHT (kg)	MODEL NUMBER	COOLING CAPACITY (Watts)	HEATING CAPACITY (Watts)	NO. OF COMP.	AMBIENT DESIGN TEMP (°C)	MINIMUM AMBIENT TEMP (°C)	ELECTRICAL					OPERATING WEIGHT (kg)	MODEL NUMBER	
															VOLTS	PHASE	MCA (A)	FAN MOTOR OUTPUT (W)								VOLTS	PHASE	MCA					MAXIMUM CIRCUIT BREAKER
AC-WW-3-1	CU-WW-3-1	ELECTRICAL ROOM	10.6	R410A	2.01	7,900	7,100	N/A	260	26	20	8	WALL MOUNT	YES	208	1	16	27	15	AC024MNADCHAA	7,900	N/A	1	31	-36	208	1	16	20	52	AC024MXSCCJAA	SAMSUNG	ALL
AC-WW-3-2	CU-WW-3-2	ELECTRICAL ROOM	10.6	R410A	2.01	7,900	7,100	N/A	260	26	20	8	WALL MOUNT	YES	208	1	16	27	15	AC024MNADCHAA	7,900	N/A	1	31	-36	208	1	16	20	52	AC024MXSCCJAA	SAMSUNG	ALL
AC-WW-3-3	CU-WW-3-3	ELECTRICAL ROOM	9.1	R410A	1.27	5,200	5,000	N/A	158	24	20	8	WALL MOUNT	YES	208	1	13	27	15	AC018MNADCHAA	5,200	N/A	1	31	-36	208	1	13	15	52	AC018MXSCCJAA	SAMSUNG	ALL

FAN SCHEDULE

UNIT IDENTIFICATION		MAX AIRFLOW (l/s)	MIN AIRFLOW (l/s)	ESP (Pa)	FAN WHEEL		FAN MOTOR				ELECTRICAL		OPERATING WEIGHT (kg)	MANUFACTURER	MODEL NUMBER	NOTES
MARK	UNIT/AREA SERVED				TYPE	SPEED (RPM)	BHP	HP	SPEED (RPM)	DRIVE TYPE	VOLTS	PHASE				
EF-WW-3-1	WC AND JANITOR	142	142	150	UPBLAST CENTRIFUGAL ROOF FAN	1,502	0.08	0.2	1,725	DIRECT	115	1	20	GREENHECK	CUE-095-VG	1,2,3,4,6
EF-WW-3-2	UNDEVELOPED SPACE 312, CORR 313, 314	500	500	100	UPBLAST CENTRIFUGAL ROOF FAN	1,500	0.18	0.25	1,725	DIRECT	115	1	23	GREENHECK	CUE-101-VG	1,3,4,6
EF-WW-3-3	STORAGES 328, 329, 330, 331, 332	1,000	1,000	100	UPBLAST CENTRIFUGAL ROOF FAN	1,339	0.41	0.75	1,550	DIRECT	115	1	35	GREENHECK	CUE-141-VG	1,3,4,6

AIR TERMINALS

NOTATION	MANUFACTURER	TYPE	MODEL NO	MATERIAL	BORDER	BLADE ORIENT.	NOM. SIZE	VOLUME DAMPER	MOUNTING FRAME	FASTENING	FINISH	NOTE
S1	E.H.PRICE	SUPPLY DIFFUSER	SPD	STEEL	SURFACE PLAQUE	N/A	600x600	N/A	TYPE 31 T-BAR	N/A	B12	2
S2	E.H.PRICE	SUPPLY GRILLE	S200	STEEL	TYPE F	TEPE L	REFER TO DWG	YES	N/A	TYPE A	B12	1.3
E1	E.H.PRICE	CEILING MOUNTED EXHAUST GRILLE	S30	STEEL	TYPE F	TYPE L	REFER TO DWGS	YES	N/A	TYPE A	B12	1.2
E2	E.H.PRICE	EXHAUST GRILLE	S30	STEEL	TYPE F	TYPE L	REFER TO DWGS	YES	N/A	TYPE A	B13	1.2

HOT WATER RADIANT CEILING PANEL SCHEDULE

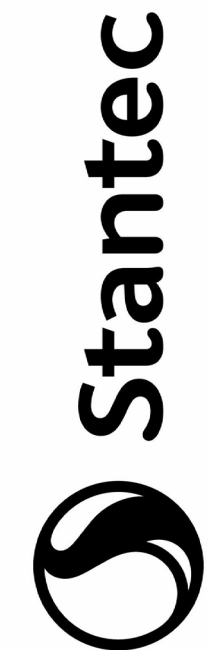
UNIT IDENTIFICATION		CAPACITY (Watts/m)	AMBIENT (°C)	WATER		PANEL				MANUFACTURER	MODEL NUMBER	NOTES
MARK	AREA SERVED			EWI (°C)	LWT (°C)	TYPE	NO OF TUBES	WIDTH (mm)	FINISH			
RCP-1	LEVEL 3	393	23.0	82.2	71.1	ODD PASS CIRCUITRY	5	600	BY ARCHITECT	FRENGER	TWA	1,2,3
RCP-2	LEVEL 3	411	23.0	82.2	71.1	EVEN PASS CIRCUITRY	6	600	BY ARCHITECT	FRENGER	TWA	1,2,3

CONTROL DAMPERS

UNIT NUMBER	SERVICE	AIR	FLOW	SIZE	VEL.	TYPE	NORMAL
		STREAM	l/s	W X H	M/S		POS
CD-EF-WW-3.2	EF-WW-3.2	EXHAUST AIR	600	350 x 350	4.90	2P	NO
CD-EF-WW-3.3	EF-WW-3.3	EXHAUST AIR	1400	450 x 450	6.90	2P	NO

NOTES
1. ALL DAMPERS SHALL BE C/W END SWITCH MONITORED AT BMS

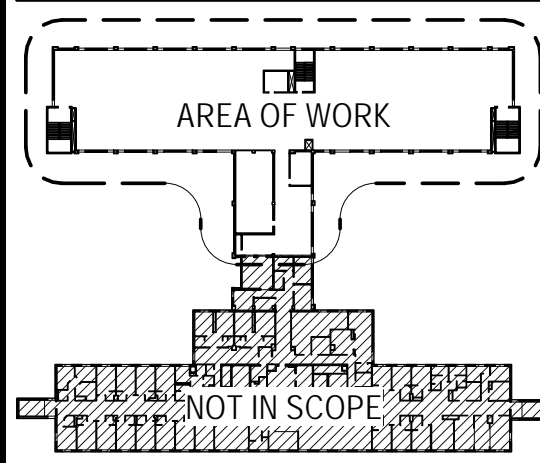
DAMPER TYPE:
2P - 2 POSITION
MOD - MODULATING
NORMAL POSITION IS "BENCH" POSITION



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1475 Edmonton St, Prince
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Project No.:144320012

File Name: N/A

Author	FH	BB	04/27/21
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Title

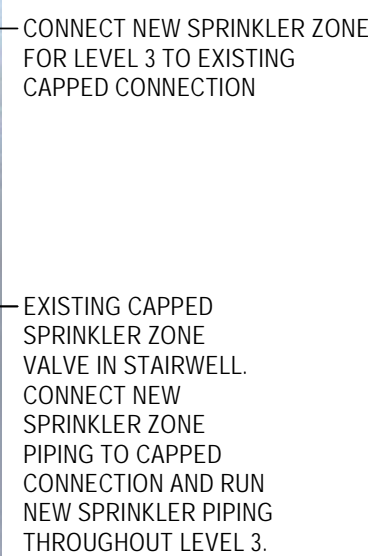
Equipment and Plumbing Fixture Schedules

Scale

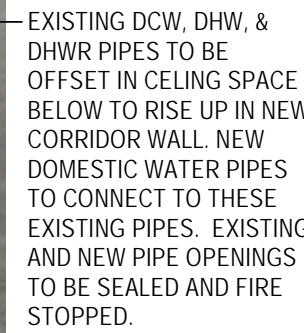
Revision:

Drawing No.

M500



1
M600



2
M600



3
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M600



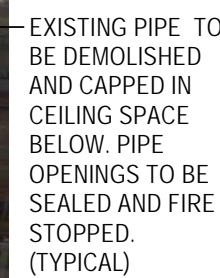
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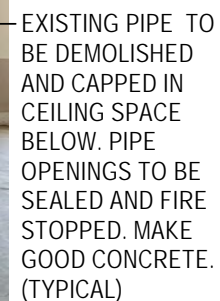
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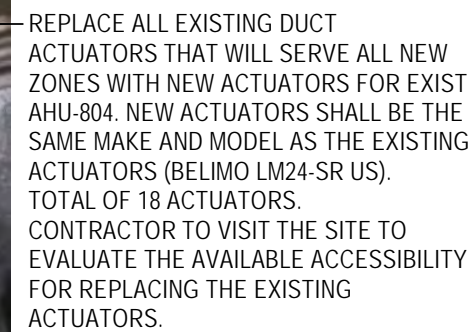

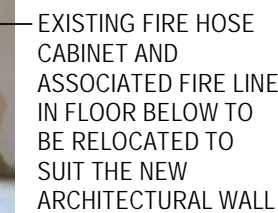
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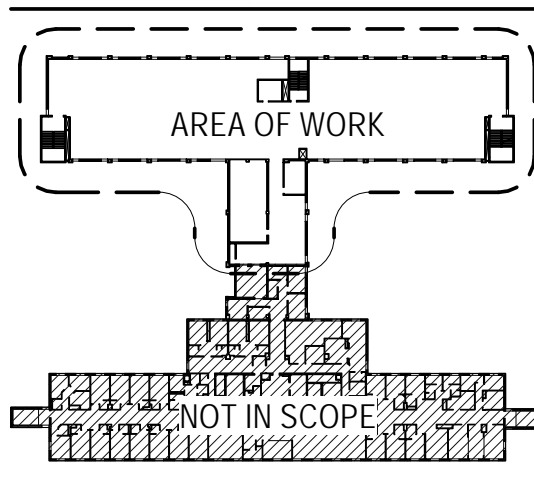
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Key Plan, 3rd Floor

Issued	Issued for DD	Issued for Client Review	Issued for Construction/BP	GH	HH	2022.05.13
					BB	2021.12.23
				HH	BB	2021.12.23
					BB	2021.05.07
				By		YYYY MM DD

Permit/Seal



Northern Health

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Project No.:144320012

File Name: N/A			
Author	FH	BB	04/27/21
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Title

Details and Images

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Revision

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M600