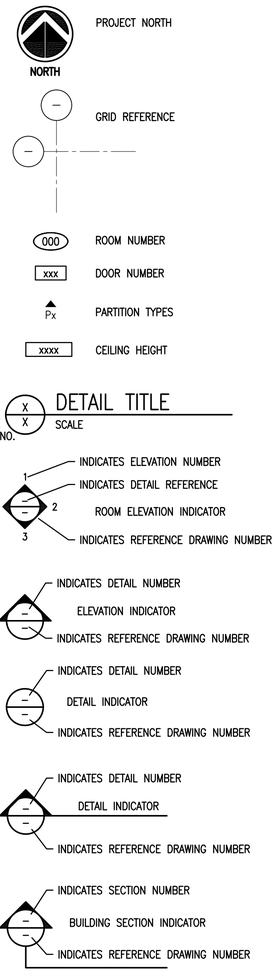
INTERIOR RENOVATION
REGINA, SASKATCHEWAN

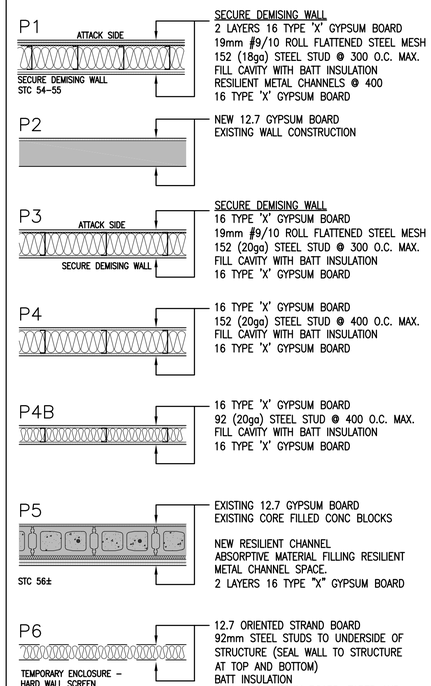
SYMBOL LEGEND



LIST OF DRAWINGS

PARTITION TYPES

PX INDICATES PARTITION TYPES



SEPARATIONS

ACOUSTIC SEPARATION - STC RATING AS PER WALL TYPE

STC STC STC STC STC STC STC STC STC

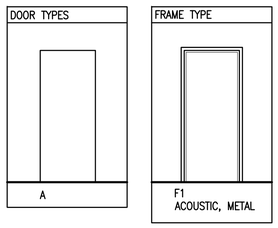
1 HR. FIRE RESISTANCE RATING SEPARATION

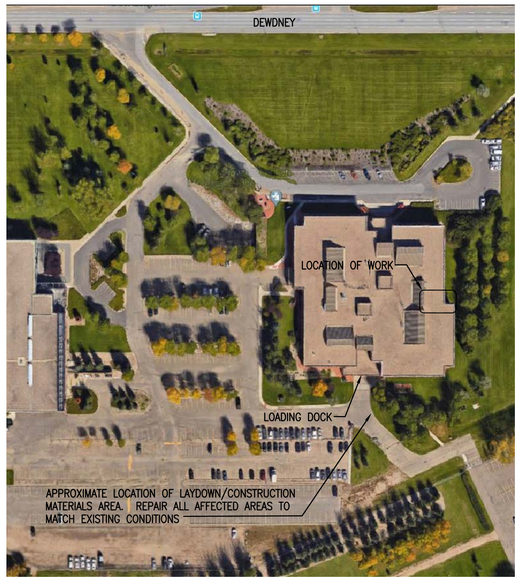
1HR 1HR 1HR 1HR 1HR 1HR 1HR 1HR

NOTES:
1. ALL NEW INTERIOR PARTITIONS ARE TO RUN FROM TOP OF SLAB TO UNDER SIDE OF STRUCTURE ABOVE UNLESS OTHERWISE NOTED. DISTANCE FROM TOP OF SLAB TO UNDERSIDE OF METAL DECK IS APPROXIMATELY 3.9m.
2. REFER TO DETAIL 8/A2 FOR FULL HEIGHT WALLS INTERSECTING OVERHEAD STRUCTURE

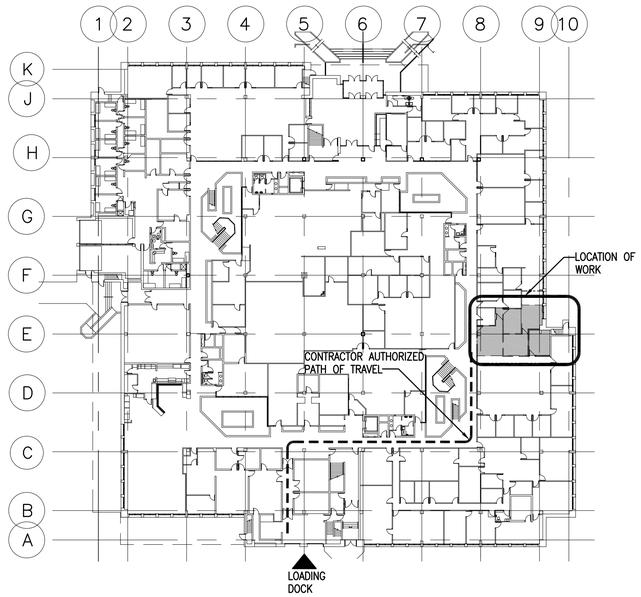
GENERAL NOTES

1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR COMPLETE SCOPE OF WORK.
2. CONTRACTOR TO CONFIRM ALL DIMENSIONS AND SITE CONDITIONS ON SITE PRIOR TO COMMENCEMENT OF WORK.
3. FLOORING TO BE INSTALLED PRIOR TO PLACEMENT OF ALL WORKSTATIONS.
4. ANY WORK PERFORMED OUTSIDE OF GENERAL SCOPE OF WORK AREA (ie. ELECTRICAL FIRE ALARM COMPONENTS OR MECHANICAL SYSTEMS) SHOULD BE PERFORMED WITH THE LEAST AMOUNT OF DISTURBANCE TO SURROUNDING AREAS. REFER TO SECTION 01 14 00 WORK RESTRICTIONS
5. PATCH, REPAIR AND REFINISH ALL AFFECTED SURROUNDING AREAS WHERE REQUIRED. PROVIDE FIRESTOPPING IN RATED PARTITIONS AND FLOOR PENETRATIONS.
6. PATCH, REPAIR AND REFINISH ALL FINISHES, TO MATCH EXISTING, WHERE AFFECTED BY REMOVALS OR NEW WORK (PARTITIONS, ELECTRICAL FIXTURES AND DEVICES, MECHANICAL FIXTURES, DUCTWORK, GRILLES, CASEWORK, ETC.) ENSURE ALL FIRE SEPARATIONS ARE REINSTATED.





NORTH 1 — SITE PLAN - CONTRACTOR AREA
NTS



NORTH 2 — KEY PLAN - FLOOR PLAN
1:500

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DO NOT SCALE DRAWINGS

Revision/ Revision	Description/Description	Date/Date
5		
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0	ISSUED FOR TENDER	2018-07-13

Client/client

Project title/Titre du projet

HSU INTERIOR RENOVATION
REGINA, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par

Drawn by/Dessine par
GP

Project Manager/Administrateur de Projets
CS

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie

Client/client

Drawing title/Titre du dessin

SITE PLAN
SCHEDULES

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
42/17	A0	0

PWGSC — A1 — 841X594

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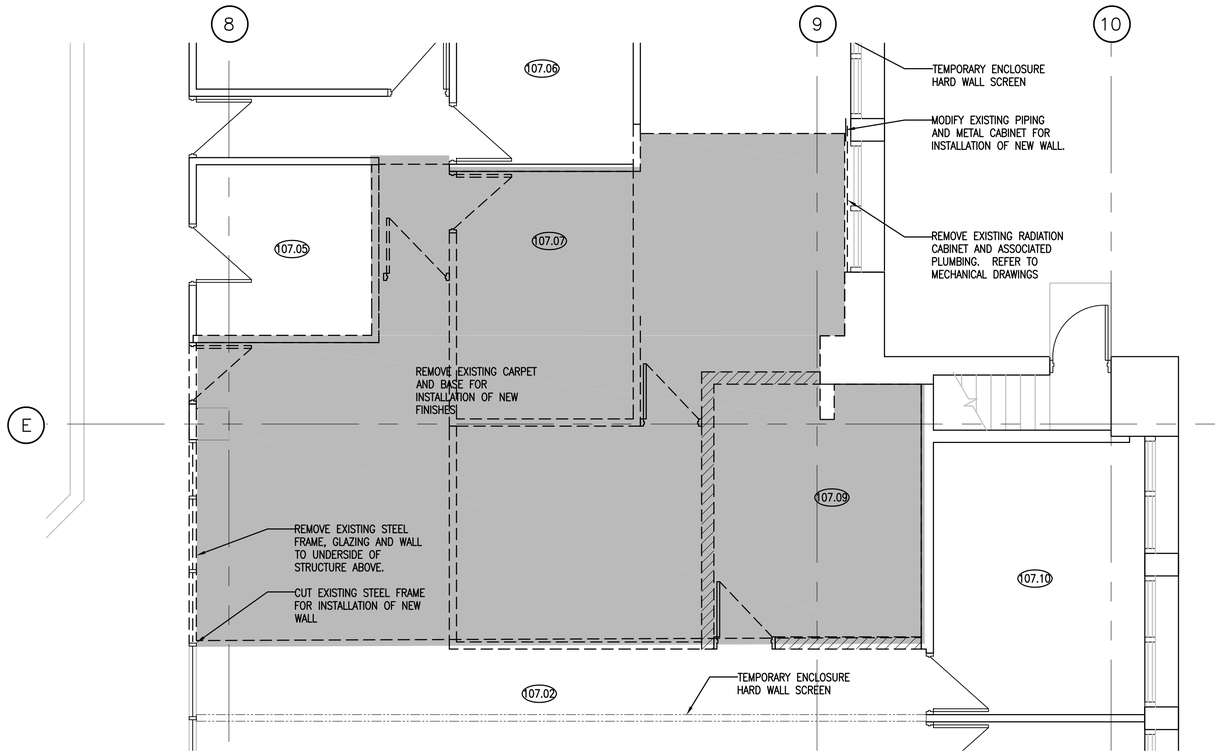


1 — FLOOR PLAN – DEMOLITION
1:50

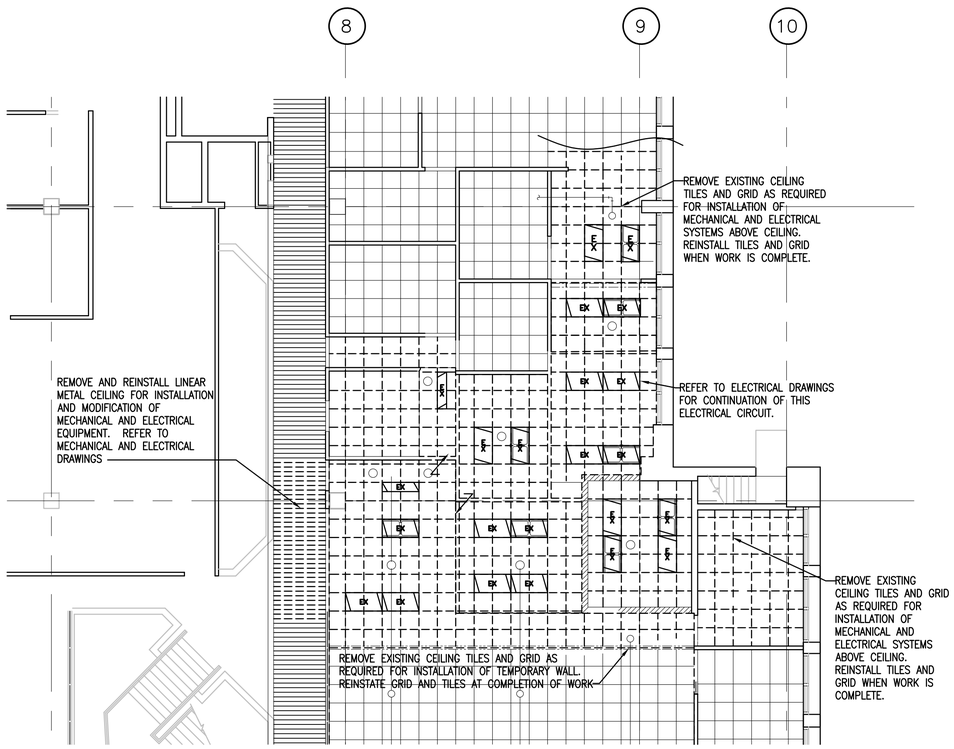
NORTH

FLOOR PLAN DEMOLITION LEGEND

- EXISTING FULL HEIGHT CONCRETE BLOCK WALL, GYPSUM BOARD ON BOTH SIDES. 15m BARS @ 400 O.C., CONCRETE FILLED CORES. WALL DOWELLED INTO FLOOR WITH 15M DOWELS @ 400 O.C. WALL HEIGHT APPROXIMATELY 3.9m.
- EXISTING FULL HEIGHT STEEL STUD AND VINYL COVERED GYPSUM BOARD WALL. GYPSUM BOARD ON BOTH SIDES.
- REMOVE ONE LAYER OF GYPSUM BOARD OR VINYL COVERED GYPSUM BOARD TO TOP UNDERSIDE OF STRUCTURE. PROTECT EXISTING STRUCTURE FOR INSTALLATION OF NEW WALL PANEL.
- TEMPORARY ENCLOSURE HARD WALL SCREEN
- EXISTING DOOR AND FRAME TO BE REMOVED. DISPOSE OF DOOR AND FRAME.
- EXISTING DOOR AND FRAME TO REMAIN
- EXISTING CARPET AND BASE TO BE REMOVED. SALVAGE EXISTING CARPET TILE FOR RE-USE OR TURNOVER TO OWNER

DEMOLITION GENERAL NOTES

1. PRIOR TO STARTING ANY WORK INSTALL TEMPORARY ENCLOSURE HARD WALL SCREEN.
2. REFER TO MECHANICAL AND ELECTRICAL FOR SCOPE OF REMOVALS.
3. PATCH AND REPAIR FLOOR AND REMAINING PARTITIONS WHERE AFFECTED BY REMOVALS. MATCH TO NEW/EXISTING FINISHES
4. EXISTING CARPET TILES TO BE REMOVED THROUGHOUT RENOVATED AREAS. PATCH AND PREPARE SUBSTRATE AS REQUIRED FOR NEW FLOOR FINISHES. STORE OR DISCARD FLOOR TILES AS DIRECTED BY OWNER.
5. REMOVE ALL EXISTING BLINDS AND RELATED HARDWARE ON EXTERIOR WINDOWS. PATCH, REPAIR AND PAINT AS REQUIRED FROM REMOVALS. REINSTALL BLINDS.
6. REMOVE ACOUSTIC CEILINGS TO THE EXTENT SHOWN TO PERFORM THE WORK. AREAS FOR REMOVAL ARE APPROXIMATE, COORDINATE WITH MECHANICAL AND ELECTRICAL WORK. WHEN WORK IS COMPLETE REPAIR CEILINGS TO REMAIN AND TURN OVER SALVAGED TILE, IN GOOD CONDITION TO OWNER.



2 — REFLECTED CEILING PLAN – DEMOLITION
1:100

NORTH

REFLECTED CEILING PLAN DEMOLITION LEGEND

- EXISTING METRIC SIZED CEILING GRID AND TILES TO REMAIN.
- EXISTING LINEAR METAL CEILING.
- REMOVE EXISTING SUSPENDED GRID, TILES, HANGERS AND ATTACHMENTS. SALVAGE PRODUCT AS REQUIRED TO PATCH AND REPAIR EXISTING CEILINGS WHERE THEY ARE MODIFIED FOR NEW FLOOR LAYOUT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL REMOVALS.
- EX — EXISTING CEILING LIGHT TO BE REMOVED. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
- EX — EXISTING CEILING LIGHT WITH INTEGRATED TROFFER TO BE REMOVED. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS. DISPOSE OF LIGHTS.
- (D) EXISTING SPRINKLER HEAD TO BE REMOVED REFER TO MECHANICAL DRAWINGS.

REFLECTED CEILING PLAN DEMOLITION NOTES

1. SALVAGE EXISTING METRIC CEILINGS TILES AND GRID FOR USE WHEN PATCHING IN EXISTING CEILING TO NEW WALLS.

2. TURN OVER UNDAMAGED CEILING TILES TO OWNER. STORE TILES AS INDICATED BY OWNER.

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Client/client

Project title/Titre du projet

HSU INTERIOR RENOVATION
REGINA, SASKATCHEWAN

Approved by/Approuve par

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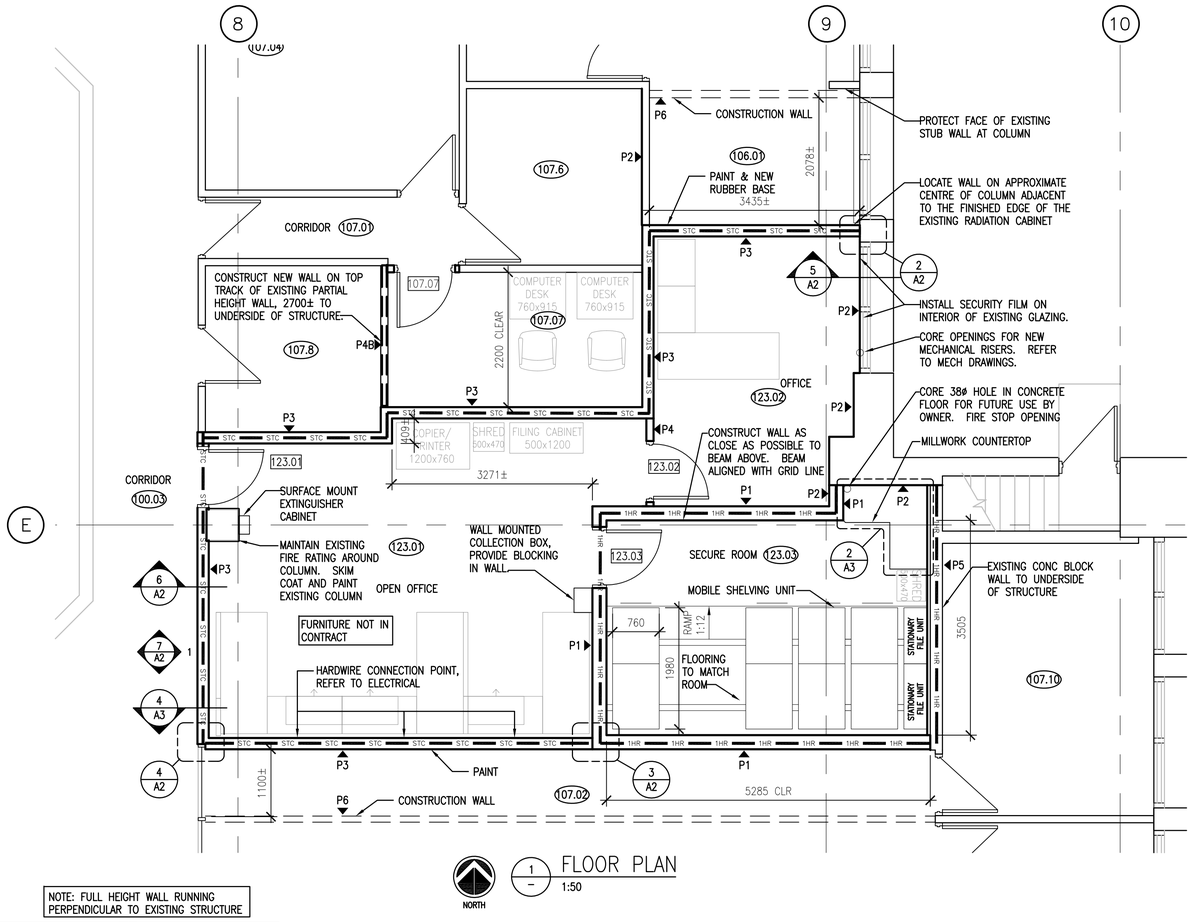
Drawing title/Titre du dessin

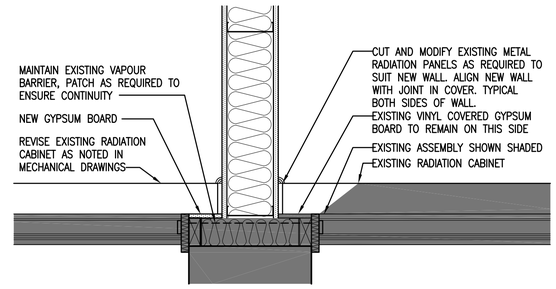
DEMOLITION FLOOR PLANS
DEMOLITION REFLECTED CEILING

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
42/17	A1	0



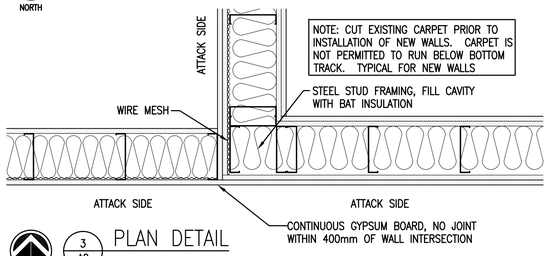
NORTH

1 / – FLOOR PLAN
1:50



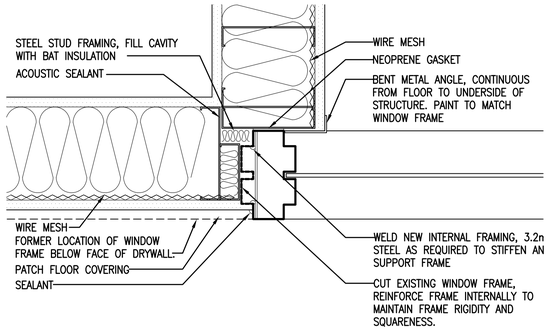
NORTH

2 / A2 PLAN DETAIL
1:10



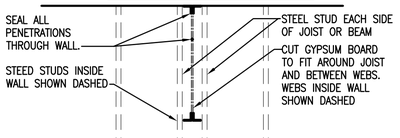
NORTH

3 / A2 PLAN DETAIL
1:10

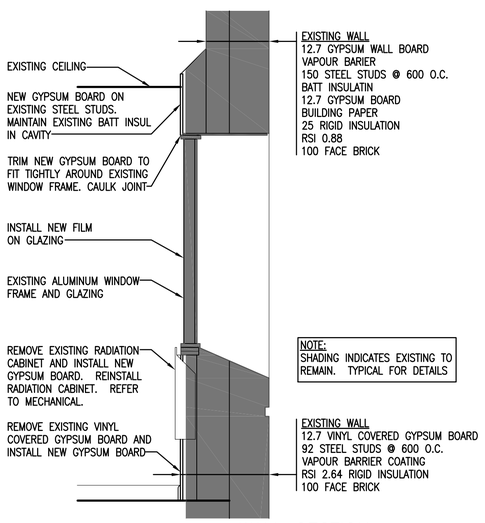


NORTH

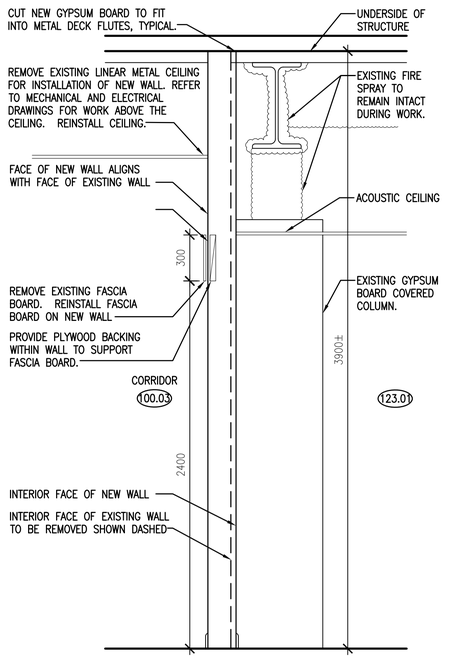
4 / A2 PLAN DETAIL
1:10



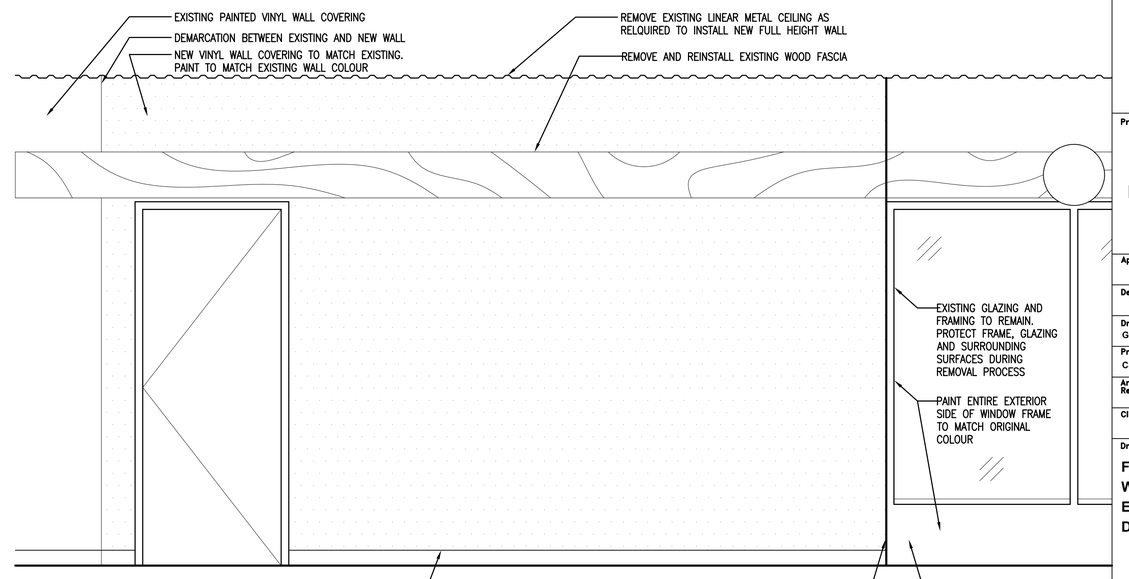
8 / A2 SECTION DETAIL
1:20



5 / A2 WALL SECTION
1:20



6 / A2 WALL SECTION
1:20



7 / A2 WALL SECTION
1:20

0 10 20 30 40 50 60 70 80 90 100mm

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5		
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0	ISSUED FOR TENDER	2017-12-22

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REGINA, SASKATCHEWAN

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FLOOR PLAN
WALL SECTION
ELEVATION
DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
42/17	A2	0

A000

REFLECTED CEILING PLAN GENERAL NOTES

1. CONTRACTOR TO REVIEW AND DETERMINE INTERFERENCE OF FULL HEIGHT PARTITION LOCATIONS IN RELATION TO OVERHEAD STRUCTURE PRIOR TO CONSTRUCTION AND INFORM DEPARTMENTAL REPRESENTATIVE.

2. ACOUSTIC CEILING TILE TO BE CENTERED IN ROOMS WITH EQUAL PERIMETER TILES WHERE POSSIBLE.

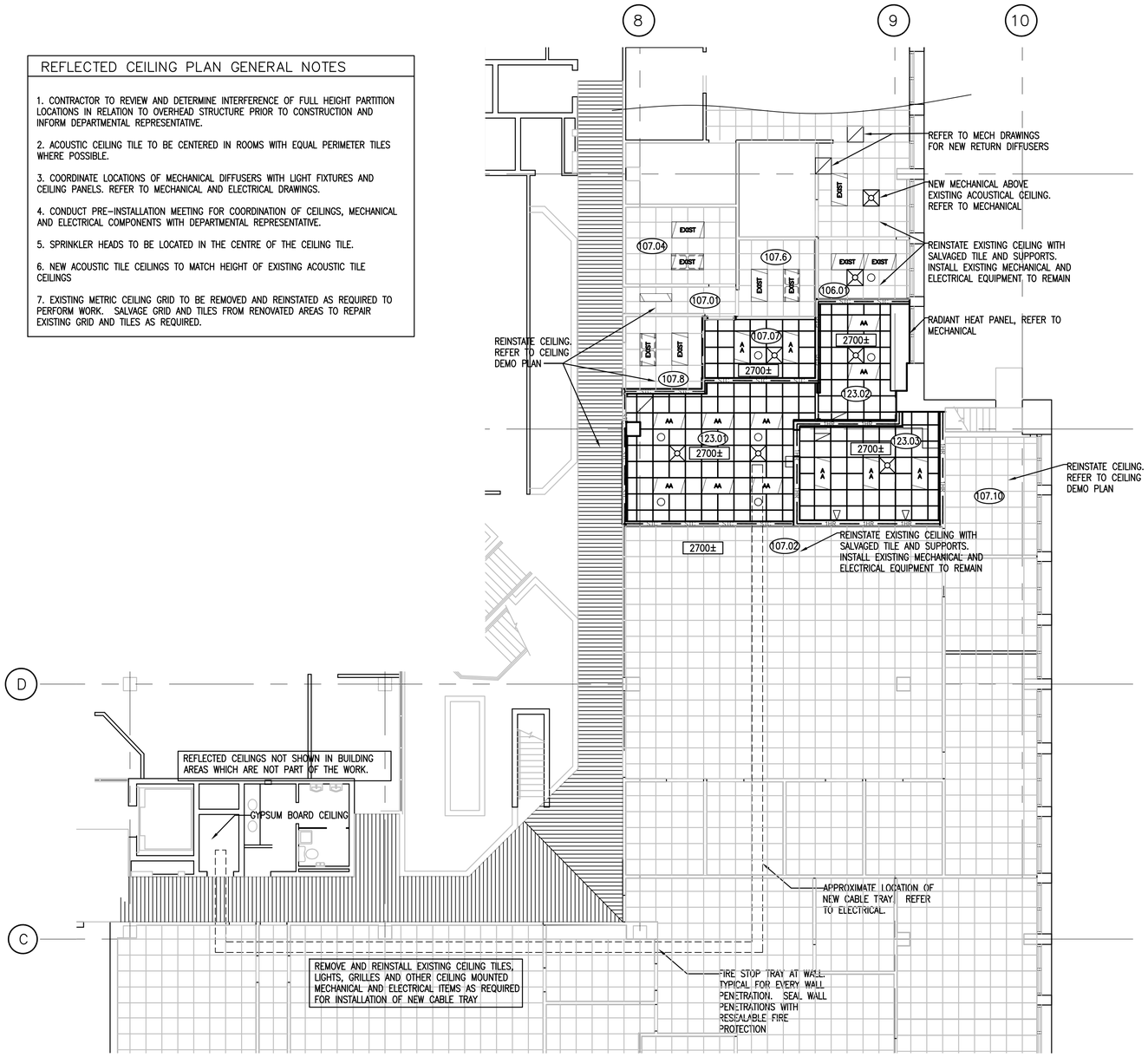
3. COORDINATE LOCATIONS OF MECHANICAL DIFFUSERS WITH LIGHT FIXTURES AND CEILING PANELS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.

4. CONDUCT PRE-INSTALLATION MEETING FOR COORDINATION OF CEILINGS, MECHANICAL AND ELECTRICAL COMPONENTS WITH DEPARTMENTAL REPRESENTATIVE.

5. SPRINKLER HEADS TO BE LOCATED IN THE CENTRE OF THE CEILING TILE.

6. NEW ACOUSTIC TILE CEILINGS TO MATCH HEIGHT OF EXISTING ACOUSTIC TILE CEILINGS

7. EXISTING METRIC CEILING GRID TO BE REMOVED AND REINSTATED AS REQUIRED TO PERFORM WORK. SALVAGE GRID AND TILES FROM RENOVATED AREAS TO REPAIR EXISTING GRID AND TILES AS REQUIRED.

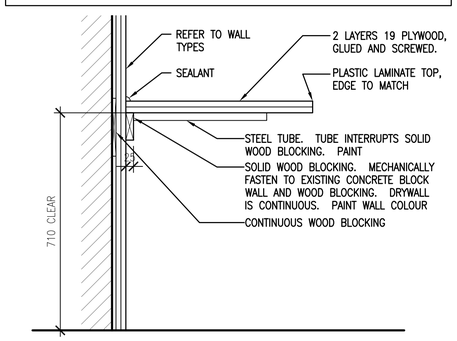


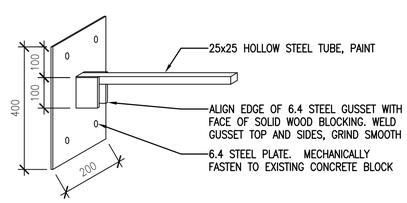
NORTH

1 / – REFLECTED CEILING PLAN
1:50

REFLECTED CEILING PLAN LEGEND

- EXISTING ACOUSTIC TILES AND GRID (600X600) METRIC
- NEW ACOUSTIC TILES AND GRID (610X610) IMPERIAL
- EXISTING LINEAR METAL CEILING.
- EXIST — EXISTING LIGHT FIXTURE, REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
- EXIST — EXISTING LIGHT FIXTURE WITH TROFFERS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
- AA — NEW LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
- (E) CEILING MOUNTED EXISTING SPRINKLER HEAD REFER TO MECHANICAL DRAWINGS
- (N) CEILING MOUNTED NEW SPRINKLER HEAD REFER TO MECHANICAL DRAWINGS
- N WALL MOUNTED NEW SPRINKLER HEAD REFER TO MECHANICAL DRAWINGS
- SUPPLY AIR GRILLE, REFER TO MECHANICAL DRAWINGS
- RETURN AIR GRILLE, REFER TO MECHANICAL DRAWINGS





3 / A3 DETAIL
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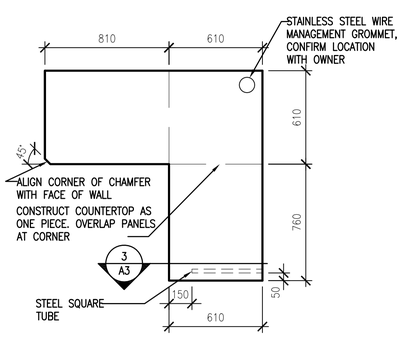
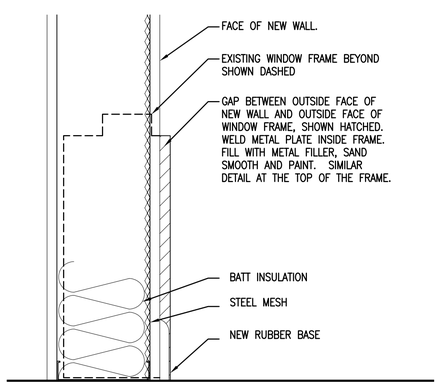
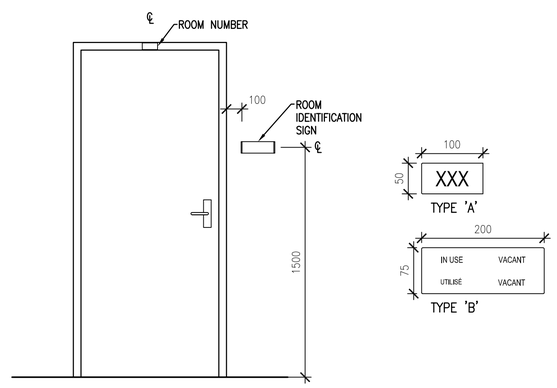


2 / – MILLWORK PLAN – ROOM 123.03
1:10



4 / A2 SECTION DETAIL
1:5



5 / – DOOR SIGNAGE
1:20

0 10 20 30 40 50 60 70 80 90 100mm

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Drawing title/Titre du dessin
CEILING PLAN
MILLWORK
DOOR SIGNAGE

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
42/17	A3	0

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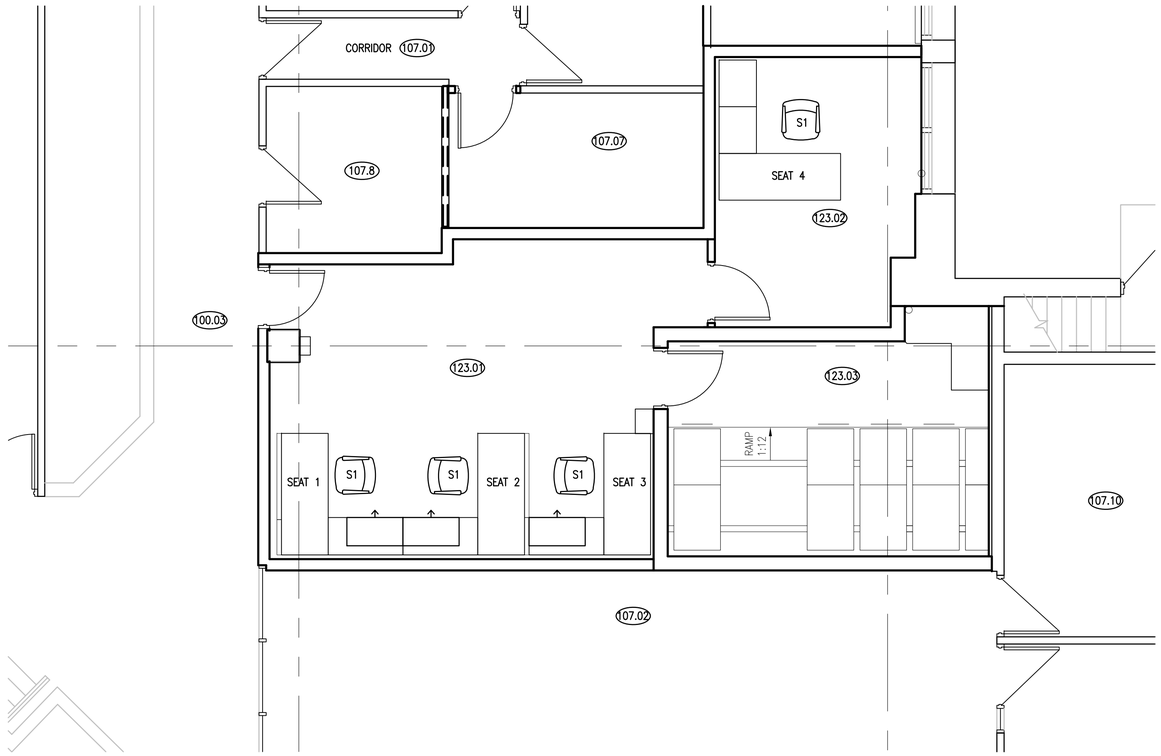
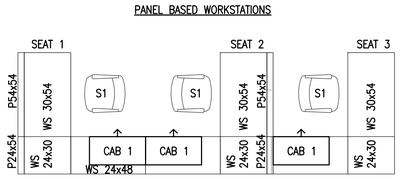


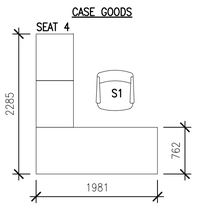
NORTH

1 / A2 FURNITURE PLAN
1:50

PANEL BASED WORKSTATIONS

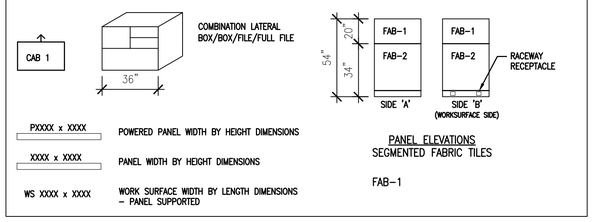


CASE GOODS



2 / A2 FURNITURE
1:50

FURNITURE SYMBOL LEGEND



CATEGORY 1 – FURNITURE INFORMATION

1.1 PANEL BASED WORKSTATIONS

.1 Panel based workstations – the following components are to be included but not limited to: panels, electrical power and receptacles, wire management for data and communication cables, worksurfaces, supports and accessory items.

.2 Panels are to meet the height and width requirements or the nearest equivalent as shown in the drawings. Panel thickness of three (3) inches – nominal. Panel frames are to be continuous allowing for segmented tiles.

.3 Supply necessary components such as brackets, connectors, clips, leveling glides etc. to fully complete the installation ready or the Owner's use. Supply channel covers, connectors and wire management components required to fully complete the installation.

.4 Panels that are powered shall have modular wiring connections panel to panel. Panel interiors shall provide pass thru holes for the passage of communication cables.

.5 Panels are to accommodate Category 6A cables. Vendor to supply capacity information.

.6 Panel frames will allow for adjustable worksurface heights.

.7 Panels are to have removable tiles each side and provide access to wires and cable management inside the panels.

.8 ELECTRICAL AND COMMUNICATIONS AND WIRE MANAGEMENT

- .1 Provide hardwire connections for base building services (power, communications and data). Refer to furniture layout drawing for connection locations.
- .2 Provide wire management capabilities and electrical harnesses within the panels.
- .3 Provide access to power and communications/data receptacles in panels. Receptacles located in floor level raceway with accessible covers. Each worksurface will provide access to raceway power, communications/data receptacles through wireways/grommets. Wire management accessories to be provided.

.9 WORKSURFACES

- .1 Include gables, support legs, cantilevers, brackets, connectors, clips, fasteners, etc. required to complete installation. Pedestals are not acceptable as supports. Support legs are to have leveling glides.
- .2 Color to be selected from manufactures' complete range
- .3 Worksurface stiffeners to be included as per manufacturers design guidelines for length or weight requirements. Vendor to confirm need of specialized requirements with Departmental Representative.
- .4 Worksurfaces are to have finished wireways. Style of opening to be selected from manufactures' standard options by Departmental Representative.

1.2 COMBINATION CABINET (CAB–1)

- .1 Constructed of 18–22 gauge steel
- .2 Roll–out drawers are to fully extend through the use of ball–bearing slides
- .3 Metal pulls. Pull style to be selected by Departmental Representative from manufacturers' complete range.
- .4 Lock with master key – each suite will have different master keys. For Open and Private Office workstations key alike with other cabinets within a workstation.
- .5 Internal system to prevent more than one drawer being opened at a time
- .6 Leveling glides
- .7 Equipped with hanging file rails and cross bars for legal or letter sized filing.
- .8 'Proud' drawer style with finished fronts and drawers, tops, sides and backs.
- .9 Colors and Finishes to be selected by Departmental Representative from manufacturers' complete range.
- .10 Refer to Furniture Layout Drawing for cabinet styles and quantities.

1.3 FREESTANDING WORKSTATIONS – CASE GOODS

.1 Description: Individual office suite.

.2 Wood veneer worksurfaces, gables, modesty panels, to be 1 ¼" (32mm) particle board core #1 45 lb covered with prefinished closed pore veneer with 20% sheen and backer sheet. Worksurfaces to have eased bull nose or waterfall edge. Work surfaces to be totally encapsulated with provisions for metal inserts. Provide under worksurface stiffeners as required by manufacture's design guidelines.

.3 Provide partial modesty panels on returns to provide access to wall receptacles. Full modesty on exposed faces.

.4 Grommet holes are to have inserts and cover plates.

.5 Include any brackets, connectors, clips, fasteners etc. to complete installation.

.6 Pedestals and lateral files can be integral components of the workstation.

.7 Pedestals – minimum one (1) box drawer with tray for pencils, etc and file drawer/s equipped with hanging hardware for front to back letter files and side to side legal files.

.8 Hardware pulls to be visible and constructed of metal.

.9 Storage cabinets to be keyed alike with master key.

.10 Veneer finishes and colors to be selected from manufacturer's complete range.

.11 Electrical and Communications and Wire Management

- .1 Provision of wire management troughs under worksurfaces and grommet holes with inserts for each worksurface to handle communication/data and power cables.
- .2 Access to receptacles through a direct plug into base building wall.

1.4 TASK CHAIRS (S1)

.1 Five–star base with castors to be hard or soft wheeled as required by flooring material.

.2 Seat pan and back rest forms to be contoured. 2" (50mm) of adjustable lumbar support minimum.

.3 Back rest to be finished with mesh fabric.

.4 High / full height back with height adjustment range of 25"–27 ½" (635–700mm) and back width of 19 ½ " (495mm).

.5 Seat height adjustment shall of 15 ¾"–21" (400–535mm) up and down. Pneumatic cylinder to be commercial heavy duty.

.6 Seat depth adjustment back and forth range of 19"–21 ½" (480–545mm). Seat width minimum 19 ½" (495mm).

.7 Arms width adjustable at seat level and height adjustable. Width between arms adjustable range of 17"–23 ½" (430–595mm).

.8 Task chairs must have the ability to remove arms in the field.

.9 Task chair must have multi–tilter motion mechanism and tilt tension.

.10 Task chair to have a minimum capacity for users up to 250 lbs.

.11 Colours and finishes to be selected by Departmental Representative from manufacture's complete range.

.12 Fabric: Grade 3 or equivalent.

GENERAL NOTES

.1 Base building services are located in walls, ceilings or floors. Workstations are to be hardwired to base building services. Voice, power and data receptacles are to be provided in the workstation. Electrical Contractor (under separate contract with Owner) will connect workstations to base building power.

.2 Installation will be subject to a visual inspection by the Owner and/or Departmental Representative. Particular emphasis will be placed on:

- .1 Neatness, clamping and tying of wire, cabling and harnesses

.3 Vendor to ensure that furniture is protected against dampness, condensation, corrosion, physical damage and other forms of deterioration during handling, shipment and storage.

.4 Representatives for the Owner, General Contractor and Vendor are to be present at time of final walk–through to ensure deficiencies and installed product condition is documented.

.5 Vendor is responsible for advising the Departmental Representative of the specific requirements of their furniture, including ower supply and is responsible for cooperating with and coordinating with the Work of other trades while onsite.

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102 - 3718 Kinnear Place, Saskatoon SK, S7P 0A6 ph: (306) 652-6457
website: www.sepw.ca

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Project title/Titre du projet

HSU INTERIOR RENOVATION
REGINA, SASKATCHEWAN

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Designed by/Concept par

Drawn by/Dessine par
GP

Project Manager/Administrateur de Projets
CS

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

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FURNITURE PLAN
FURNITURE SCHEDULE
FURNITURE SPECIFICATIONS

FOR INFORMATION ONLY

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
42/17	A4	0

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EQUIPMENT SCHEDULE:
The design is based on the equipment listed here and noted in the Equipment Schedule Tables. Refer to Section 21 05 01 Article 1.24 ALTERNATE MATERIALS & EQUIPMENT for responsibilities when utilizing equipment that differs from the basis of design but still meets the design intent and the process to apply to use equipment that alters the design intent.

THERMOSTATS: Existing thermostats to be relocated as shown on drawing.

ZONE CONTROL VALVE (to match existing): Johnson Controls Model VG7241ES+3801B, two way control valve. Valve shall be ANSI rated to withstand the pressures and temperatures encountered. Valve shall have stainless steel stems and spring loaded Teflon packing with replaceable disc. Valve shall be sized for a pressure drop equal to the equipment it serves.

COMBINATION BALL VALVE AND WYE STRAINER: Nexus Model Ultra Y combination ball valve/strainer. Valve to be of brass construction with a stainless steel filter screen, Teflon ball seals, PT test plug and blow down drain valve. Units to be sized based on flow requirements and installed as per manufacturer's recommendations.

AUTOMATIC FLOW LIMITING VALVE C/W ISOLATION VALVE: Nexus model UltraMatic combination automatic flow control/ball valve. Valve to be of brass construction with a stainless steel filter screen, Teflon ball seals, PT test plug and union end. Units to be sized based on flow requirements and installed as per manufacturer's recommendations.

GRILLES AND DIFFUSERS:

S-1: E.H. Price Model 600x600/SPD/31/B12, square plaque diffuser, T-bar installation. Finish: White Powder Coat.

R-1: E.H. Price Model 85/F/A/L/B12, eggcrate face ceiling return grille, 45 degree angled aluminum grid core, 32mm (1-1/4") flat border (surface mount), countersunk screwholes, sight resistant parallel to long dimension. Finish: White Powder Coat

FIRE DAMPERS (FD): ULC listed types as noted on drawings. Dampers to be installed in strict accordance with manufacturer's recommendations and authority having jurisdiction.

FIRE/SMOKE DAMPERS (F/SD): ULC listed types as noted on drawings. Dampers to be installed in strict accordance with manufacturer's recommendations and authority having jurisdiction. Damper to be complete with motorized low voltage actuator and smoke detection system, supplied with damper. Actuator and detector to be factory wired complete with alarm contact for connection to fire alarm.

FIRE EXTINGUISHER CABINET TYPE (FEC-1): National Fire Equipment Ltd., or approved equal, Model 102RS-SUR-SS surface mount, stainless steel cabinet with glass in door, complete with 2.3 kg (5 lb) ABC dry chemical fire extinguisher.

CARBON DIOXIDE FIRE EXTINGUISHER: 4.5 kg (10 lb) Carbon dioxide fire extinguisher with 10BC rating c/w wall bracket.

CONTROLS: Existing controls to be modified to serve revised layout. New thermostats to be supplied as required. Existing control system graphics to be updated.

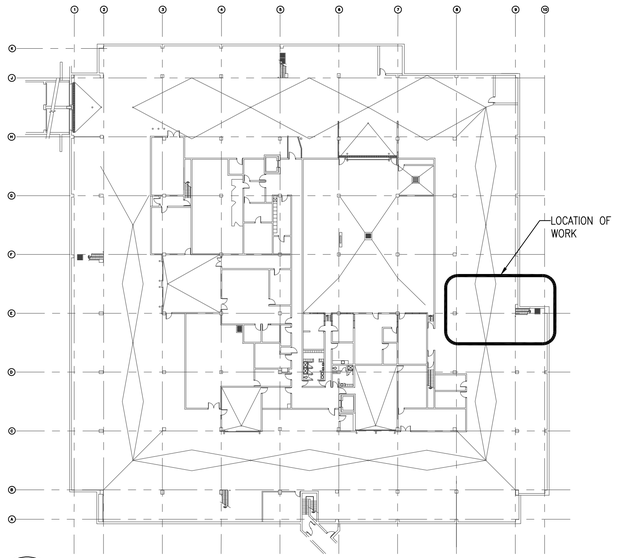
Variable Air Volume Control Boxes - Terminal Units

General Information						Airflow			
Tag	Notes	Location	Room(s) Served	Neck Size		Max Air Flow		Min. Air Flow	
				mm	(in)	L/S	(CFM)	L/S	(CFM)
AV.106.3	Exisitng to be Relocated	123.02	Room 123.02	100	4	90	191	10	21
AV.106.9	Existing to be Relocated	123.03	Room 123.03	100	4	50	106	10	21
AV.107.1	Existing to Remain	107.02	Room 107.02	300	12	700	1484	100	212
AV.107.2	Existing to be Relocated	123.01	Room 123.01	125	5	150	318	10	21
AV.107.3	Existing to be Relocated	106.01	Room 106.01	125	5	120	254	10	21
AV.107.8	Existing to be Relocated	107.07	Room 107.07	100	4	50	106	10	21
AV.107.9	Existing to Remain	107.06	Room 107.06	100	4	50	106	10	21
AV.107.10	Existing to Remain	107.04	Room 107.04	100	4	50	106	10	21
AV.107.11	Existing to Remain	107.08	Room 107.08	100	4	50	106	10	21

Silencer Schedule

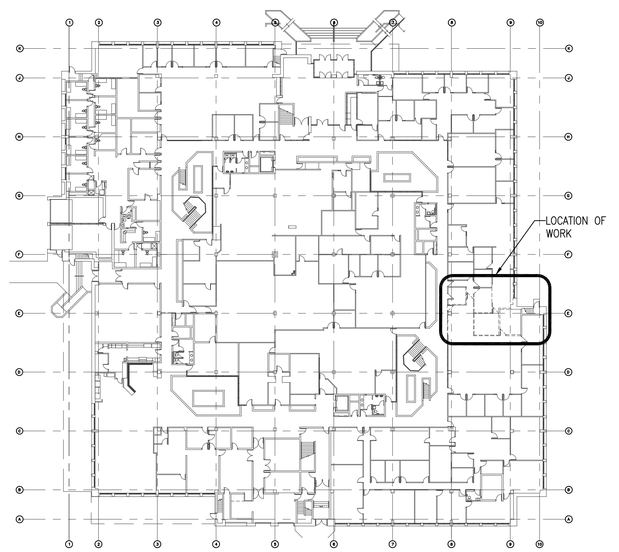
Pressure Drop listed includes system effect for duct arrangements indicated on drawings. Supplier to ensure Pressure Drop including system effect is not greater than number indicated. Design is based on: VAW Model REA-Z (Z configuration), Casing: 22 Ga. Galvanized, Perf: 22 Ga. Galvanized, Media: Fibreglass

General Information						Airflow		Face Velocity	Pressure Drop		Minimum Required Attenuation							
Tag	Location	Width mm	Height mm	Silencer Type	Silencer Length mm						Octave Band							
						L/S	(CFM)	m/s	Pa	in. w.c.	63	125	250	500	1k	2k	4k	8k
SIL-1	123.01 to 107.2	300	500	Rectangular	2100	400	(848)	2	5	0.02	8	15	23	35	51	47	34	26
SIL-2	123.02 to 123.01	200	300	Rectangular	2100	90	(191)	1	1.74	0.01	7	15	26	36	46	43	37	32



NORTH

1 – KEY PLAN – BASEMENT PLAN
1:500

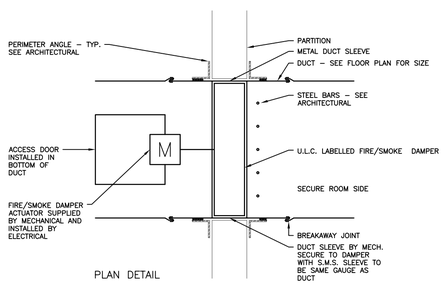


NORTH

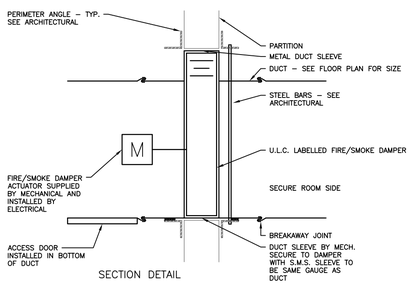
2 – KEY PLAN – MAIN FLOOR
1:500

LEGEND

- HWS / HWR — HOT WATER SUPPLY / HOT WATER RETURN
- GATE VALVE (UNLESS OTHERWISE NOTED)
- BALL VALVE
- BUTTERFLY VALVE
- GLOBE VALVE
- CHECK VALVE
- TWO WAY CONTROL VALVE
- THREE WAY CONTROL VALVE
- STRAINER
- CIRCUIT BALANCE VALVE
- FLOW RESTRICTOR
- UNION
- ELBOW DOWN
- ELBOW UP
- E (T) — EXISTING TEMPERATURE/ THERMOSTAT TO REMAIN
- R (T) — EXISTING TEMPERATURE/ THERMOSTAT TO BE RELOCATED
- N (T) — NEW TEMPERATURE/THERMOSTAT TO BE MATCH EXSITING
- E — EXISTING LIGHT TROUGH DIFFUSER TO REMAIN
- R — EXISTING LIGHT TROUGH DIFFUSER TO BE RELOCATED
- D — EXISTING LIGHT TROUGH DIFFUSER TO BE REMOVED
- FD — FIRE DAMPER
- TURNING VANES
- MANUAL BALANCE DAMPER
- INTERNALLY INSULATED DUCT
- EXTERNALLY INSULATED DUCT
- EXISTING DUCT TO REMAIN
- EXISTING DUCT TO BE MOVED, REMOVED OR RELOCATED AS NOTED
- SUPPLY DUCT SECTION
- RETURN DUCT SECTION
- EXHAUST DUCT SECTION



PLAN DETAIL



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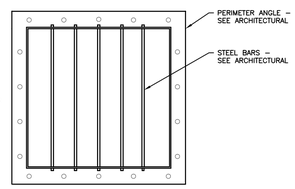
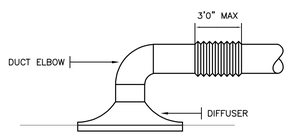
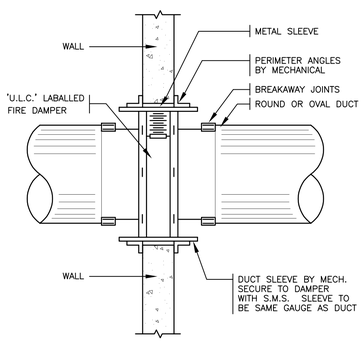


ELEVATION OF FRAME

SECURITY DUCT PENETRATION n.t.s.



FLEX DUCT DETAIL n.t.s.



TYPE 'C' FIRE DAMPER n.t.s.

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MECHANICAL EQUIPMENT SCHEDULE
MECHANICAL DETAILS

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42/17	M1.0 OF 05	0

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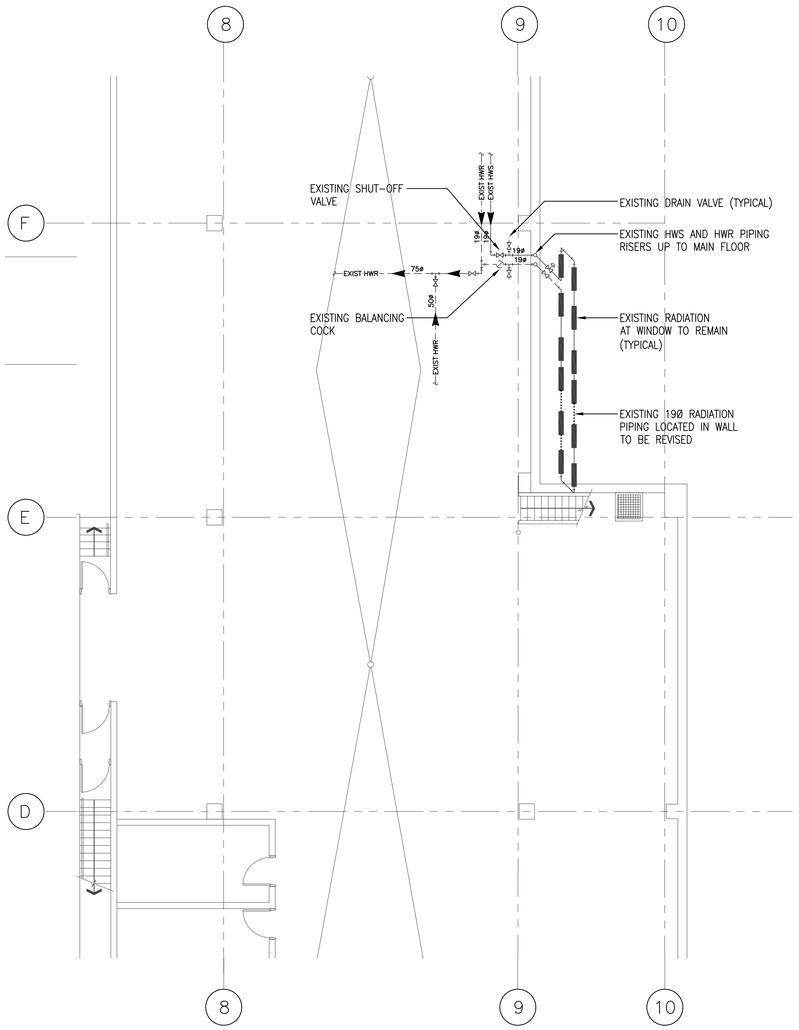
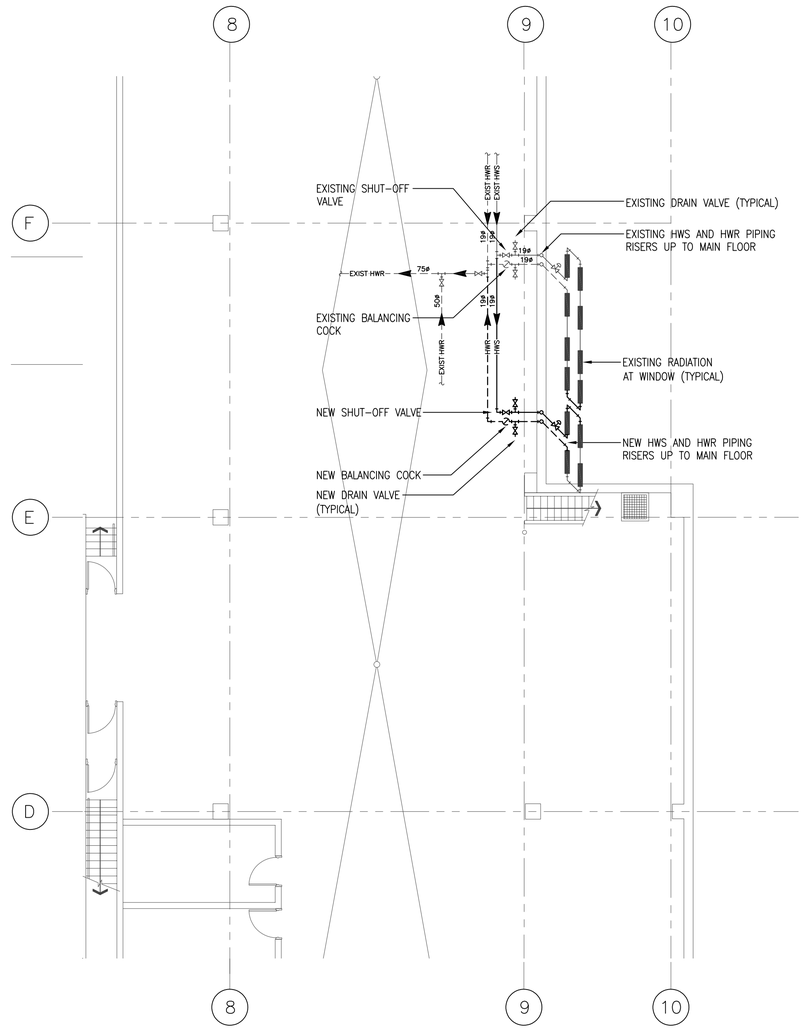


1 — BASEMENT FLOOR PLAN HEATING – DEMOLITION

1:100

NORTH



2 — BASEMENT FLOOR PLAN HEATING – REVISED

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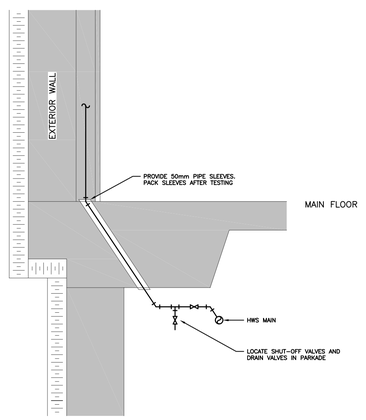

PIPE SLEEVES THRU MAIN FLOOR n.t.s.

GENERAL HEATING NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- COORDINATE ALL WORK WITH OTHER TRADES AND SITE CONDITIONS.
- RUN PIPING AS HIGH AS POSSIBLE.
- INSTALL AUTO AIR VENTS WITH PET COCKS AT ALL HIGH POINTS IN THE SYSTEM PIPING.
- REFER TO DETAIL SHEETS FOR EQUIPMENT CONNECTIONS.
- ALL RUNOUTS TO REHEAT COILS, RADIANT PANELS, OR WALL-FIN RADIATION TO BE 19ø UNLESS NOTED OTHERWISE. ALL RUNOUTS TO UNIT HEATERS AND FORCE FLOWS TO BE 25ø UNLESS NOTED OTHERWISE.

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BASEMENT FLOOR PLAN HEATING

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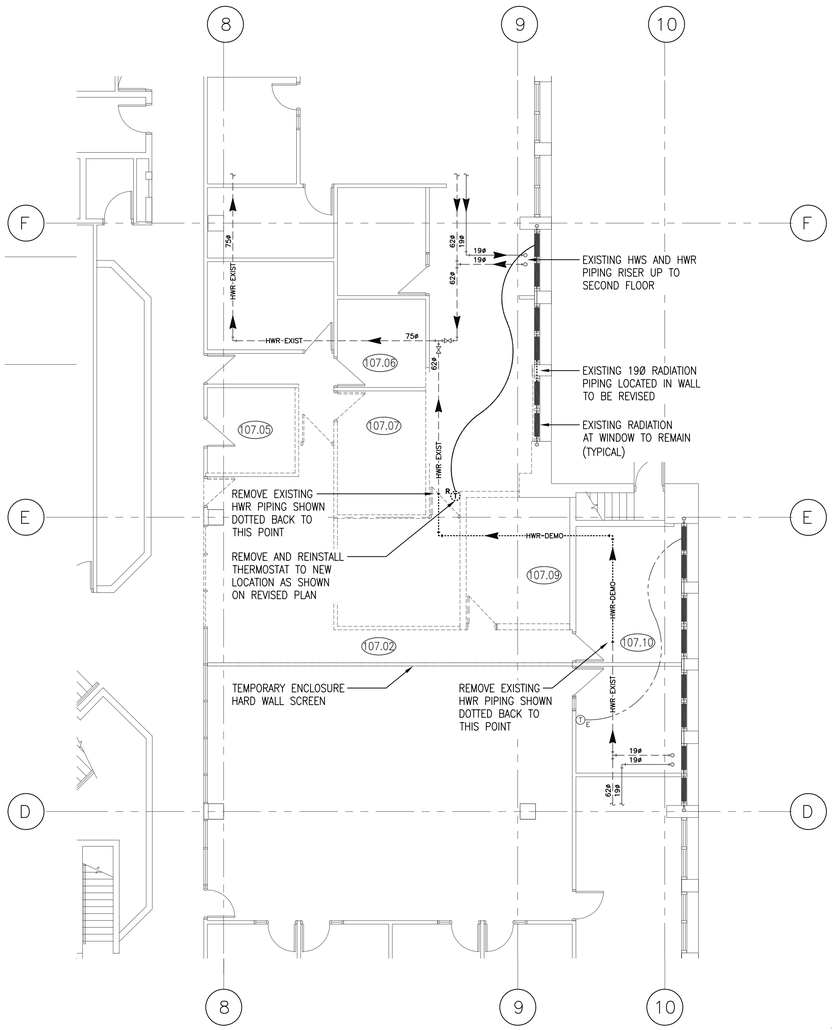

1 — MAIN FLOOR PLAN HEATING – DEMOLITION

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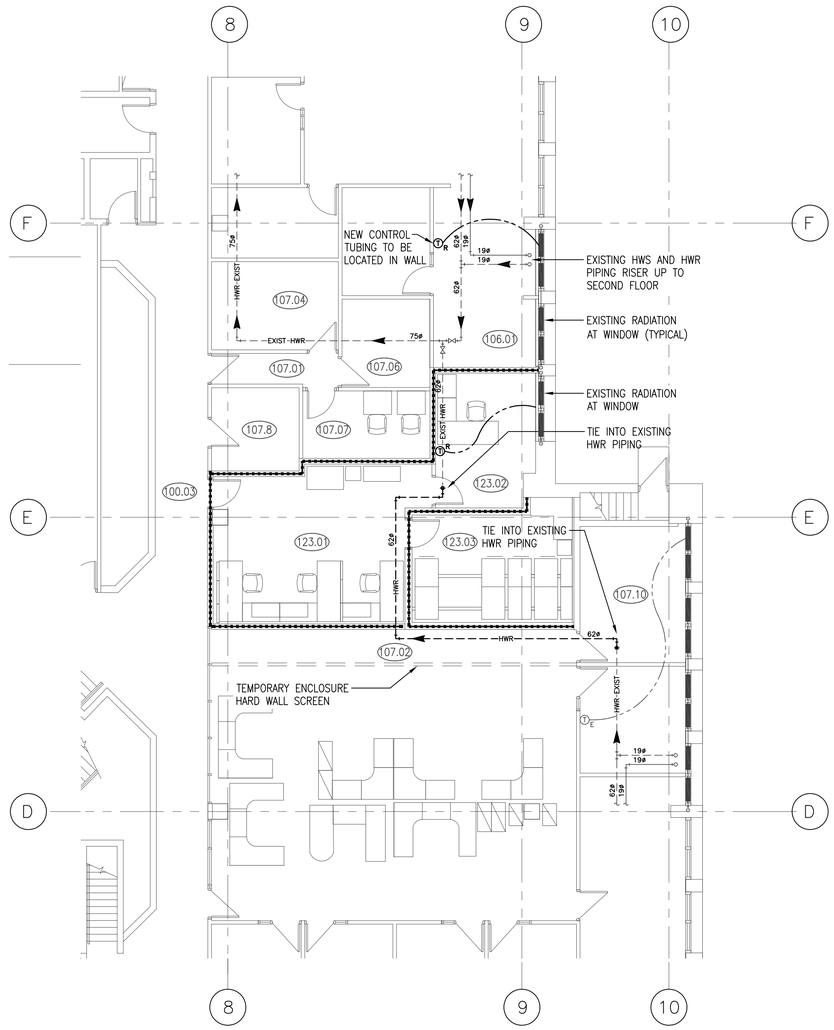

2 — MAIN FLOOR PLAN HEATING – REVISED

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NORTH

GENERAL HEATING NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- COORDINATE ALL WORK WITH OTHER TRADES AND SITE CONDITIONS.
- RUN PIPING AS HIGH AS POSSIBLE.
- INSTALL AUTO AIR VENTS WITH PET COCKS AT ALL HIGH POINTS IN THE SYSTEM PIPING.
- REFER TO DETAIL SHEETS FOR EQUIPMENT CONNECTIONS.
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MAIN FLOOR PLAN HEATING

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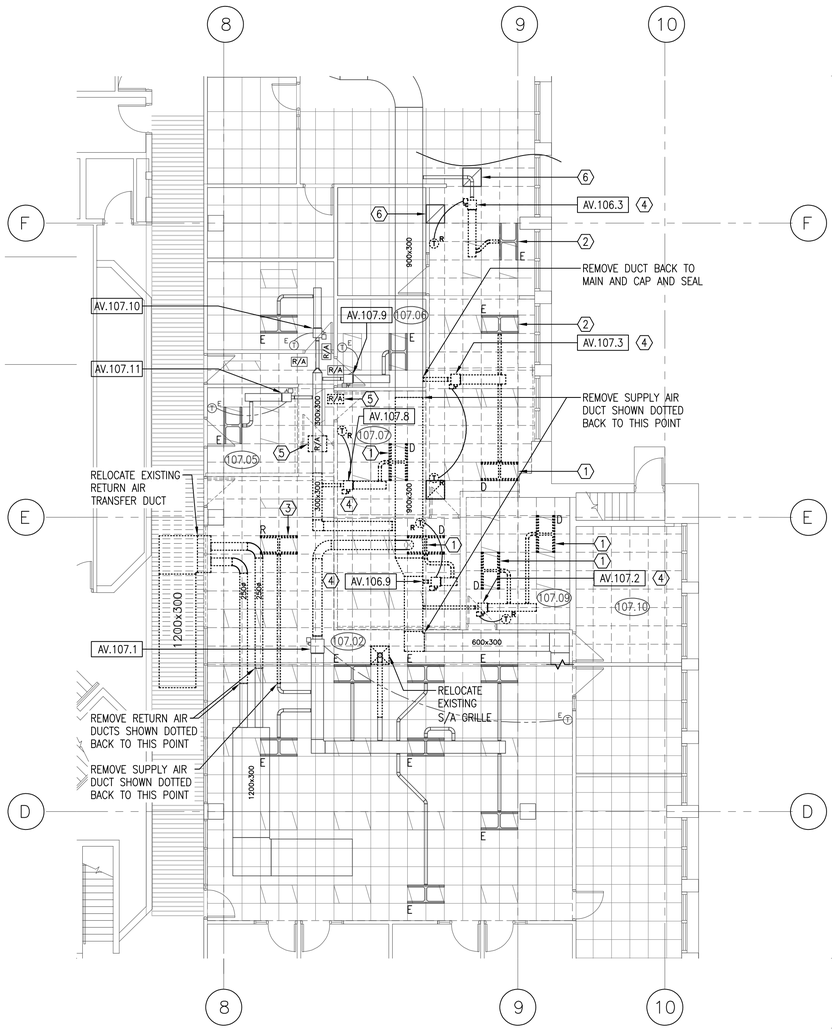
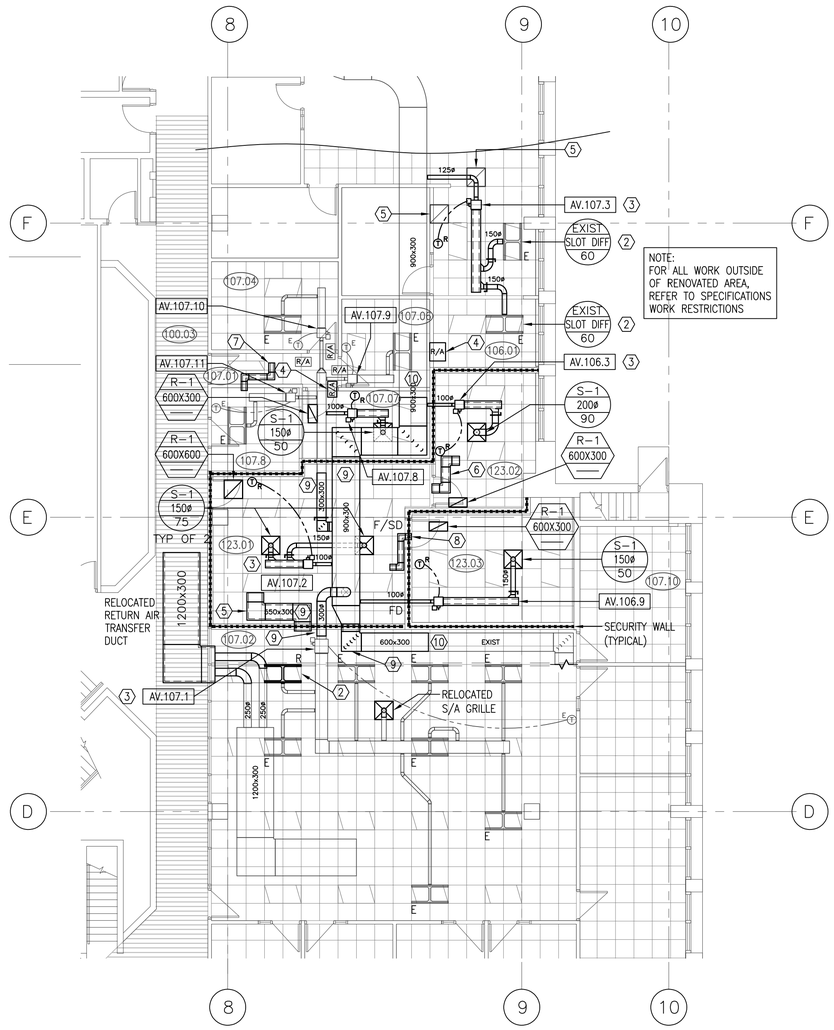


1 — MAIN FLOOR PLAN VENTILATION – DEMOLITION
1:100

NORTH

DEMOLITION KEYNOTES:

1. EXISTING SUPPLY AIR DIFFUSER TO BE REMOVED
2. EXISTING SUPPLY AIR DIFFUSER TO REMAIN AND BE RECONNECTED
3. EXISTING SUPPLY AIR DIFFUSER TO BE RELOCATED
4. EXISTING VAV BOX TO BE RELOCATED
5. EXISTING RETURN AIR TRANSFER DUCT TO BE RELOCATED
6. EXISTING RETURN AIR GRILLE TO REMAIN



NOTE:
FOR ALL WORK OUTSIDE OF RENOVATED AREA, REFER TO SPECIFICATIONS WORK RESTRICTIONS

2 — MAIN FLOOR PLAN VENTILATION – REVISED
1:100

NORTH

VENTILATION KEYNOTES:

1. EXISTING SUPPLY AIR DIFFUSER TO BE REMOVED
2. EXISTING RELOCATED SUPPLY AIR DIFFUSER TO BE REBALANCED TO NEW AIRFLOW SHOWN
3. RELOCATED VAV BOX. HIGH VELOCITY SUPPLY AIR DUCT SERVING VAV BOX TO TIE INTO DUCT MAIN.
4. RELOCATED RETURN AIR TRANSFER DUCT
5. NEW RETURN AIR TRANSFER SILENCER SIL-1
6. NEW RETURN AIR TRANSFER SILENCER SIL-2
7. NEW 200x200 RETURN AIR TRANSFER DUCT C/W SECURITY BARS. REFER TO DETAIL.
8. NEW 200x200 RETURN AIR TRANSFER DUCT C/W FIRE/SMOKE DAMPER AND SECURITY BARS. REFER TO DETAIL.
9. NEW DUCTWORK PENETRATING SECURITY WALL TO BE INSTALLED WITH SECURITY BARS. REFER TO DETAIL.
10. NEW SUPPLY AIR DUCT REVISION WORK TO BE COMPLETED DURING UNOCCUPIED PERIODS AS TO NOT AFFECT DIFFUSERS DOWN STREAM.

VENTILATION GENERAL NOTES

- ALL DUCTWORK SHOWN DOUBLE LINE INSIDE PERIMETER OF DUCT IS TO BE COMPLETE WITH 25mm (1") INTERNAL INSULATION. ALL OTHER DUCTWORK IS TO BE C/W 25mm (1") EXTERNAL INSULATION. SIZES INCLUDE INTERNAL INSULATION WHERE APPLICABLE.
- ALL FITTINGS ON INTERNALLY INSULATED DUCTWORK ARE TO BE C/W INTERNAL INSULATION. ALL OTHERS ARE TO BE EXTERNALLY INSULATED.
- ALL SUPPLY AIR AND EXHAUST AIR BRANCH DUCTS TO GRILLES AND DIFFUSERS ARE TO BE C/W BALANCE DAMPERS IN BRANCH DUCT NEAR MAIN, UNLESS BALANCE DAMPERS ARE PROVIDED IN GRILLE OR DIFFUSER.
- ALL RADIUSED ELBOWS TO BE WITH CENTERLINE RADIUS OF 1.5 TIMES DUCT DIAMETER (ROUND DUCTS) OR DUCT WIDTH (RECTANGULAR). ALL MITERED ELBOWS TO BE COMPLETE WITH AIRFOIL TURNING VANES. ALL RECTANGULAR BRANCHES TO BE WITH RADIUS ON BRANCH 1.5 TIMES WIDTH OF DUCT. ALL ROUND BRANCHES TO ENTER MAIN DUCT AT 45 DEGREES WITH CONICAL CONNECTION.
- PROVIDE ACCESS DOORS FOR ACCESS TO ALL MOTORIZED DAMPERS, FIRE DAMPERS, HUMIDIFIERS AND CONTROL DEVICES, AND TO FACILITATE DUCT CLEANING.
- COORDINATE ALL WORK WITH OTHER TRADES.
- RUN DUCTS AS HIGH AS POSSIBLE TO PROVIDE MAXIMUM CLEARANCE.
- BALANCE ALL DIFFUSERS TO BE THE SAME WITH AVAILABLE AIR IN EACH VARIABLE AIR VOLUME BOX (UNLESS NOTED OTHERWISE).

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MAIN FLOOR PLAN VENTILATION

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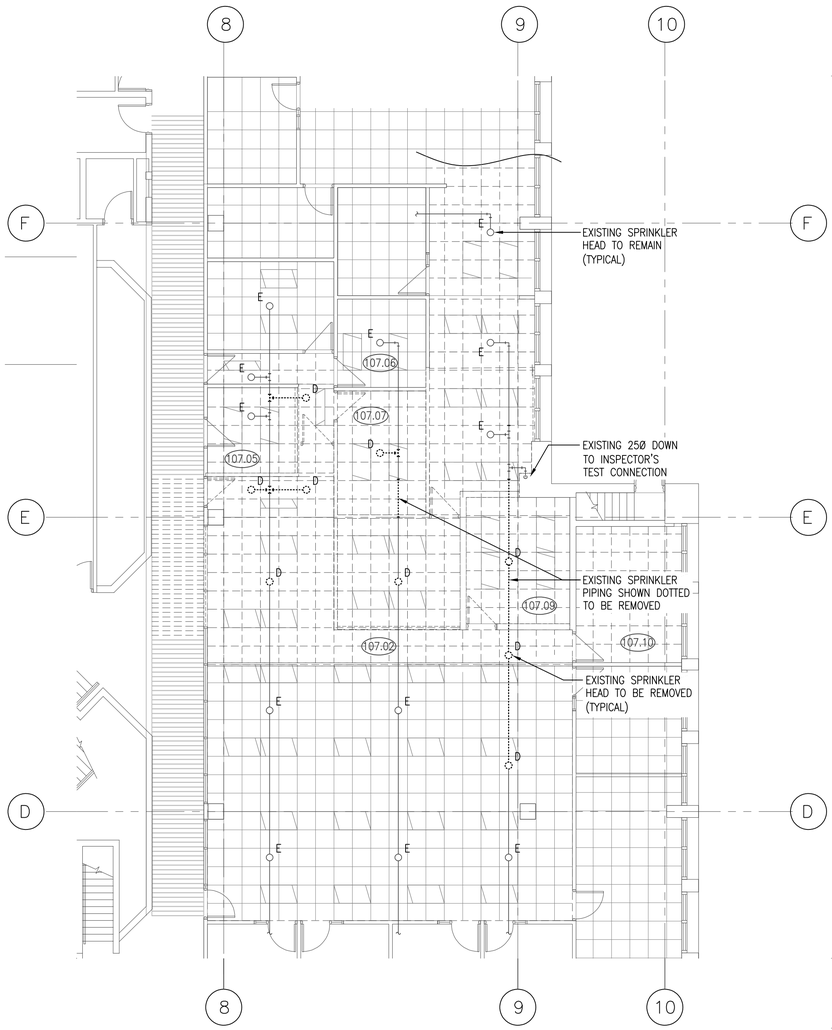

1 MAIN FLOOR PLAN FIRE PROTECTION – DEMOLITION
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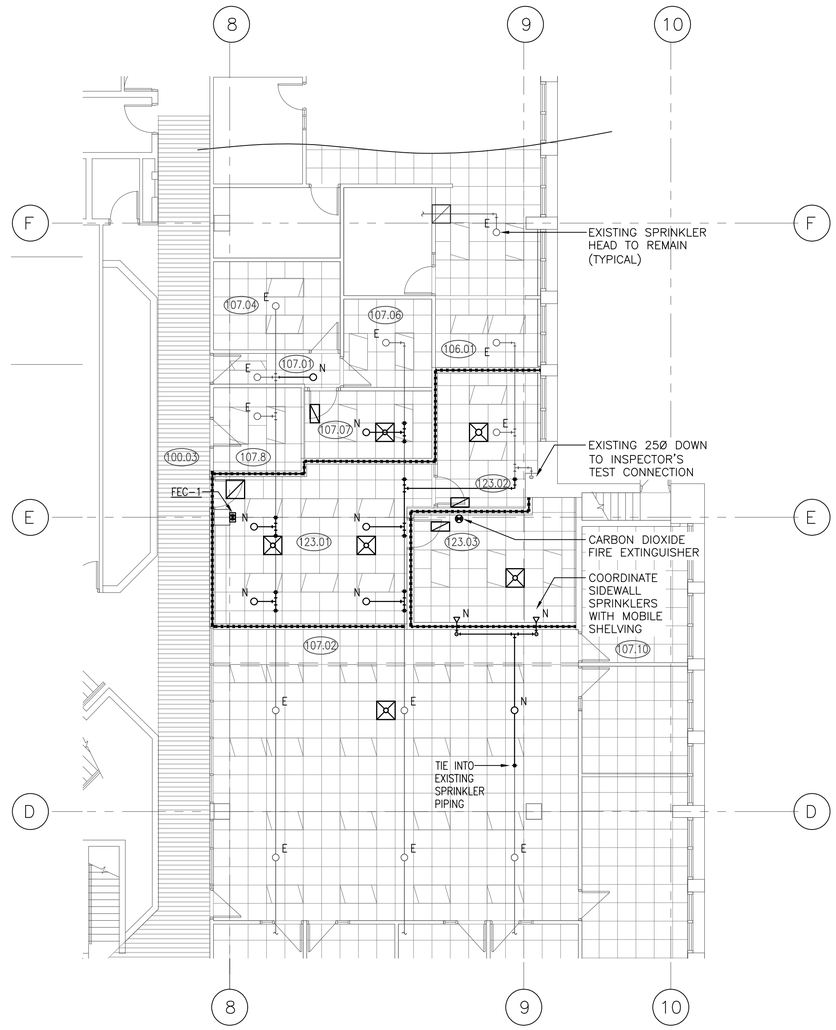
NORTH



1 MAIN FLOOR PLAN FIRE PROTECTION – REVISED
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NORTH

SPRINKLER LEGEND

- O STANDARD CHROME PLATED SEMI–RECESSED PENDANT HEAD
- △ STANDARD SIDEWALL HEAD
- E EXISTING SPRINKLER HEAD
- D EXISTING SPRINKLER HEAD TO BE REMOVED
- N NEW SPRINKLER HEAD

FIRE PROTECTION NOTES

- ALL SPRINKLER PIPE TO BE HYDRAULICALLY SIZED. BASE ON FLOW TEST RESULTS.
- CO–ORDINATE ALL SPRINKLER HEADS AND PIPING WITH OTHER PIPING, STRUCTURAL, LIGHTING, DUCTWORK AND ELECTRICAL.
- PROVIDE DRAINS AT LOW POINTS IN SYSTEM.
- ALL SPRINKLER HEADS IN T–BAR CEILINGS ARE TO BE CENTERED IN TILE OR 1/2 TILE UNLESS NOTED OTHERWISE.

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REGINA, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
CHK

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PWGSC Project Manager/Administrateur de Projets TPSGC
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PWGSC, Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie, TPSGC

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MAIN FLOOR PLAN
FIRE PROTECTION

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
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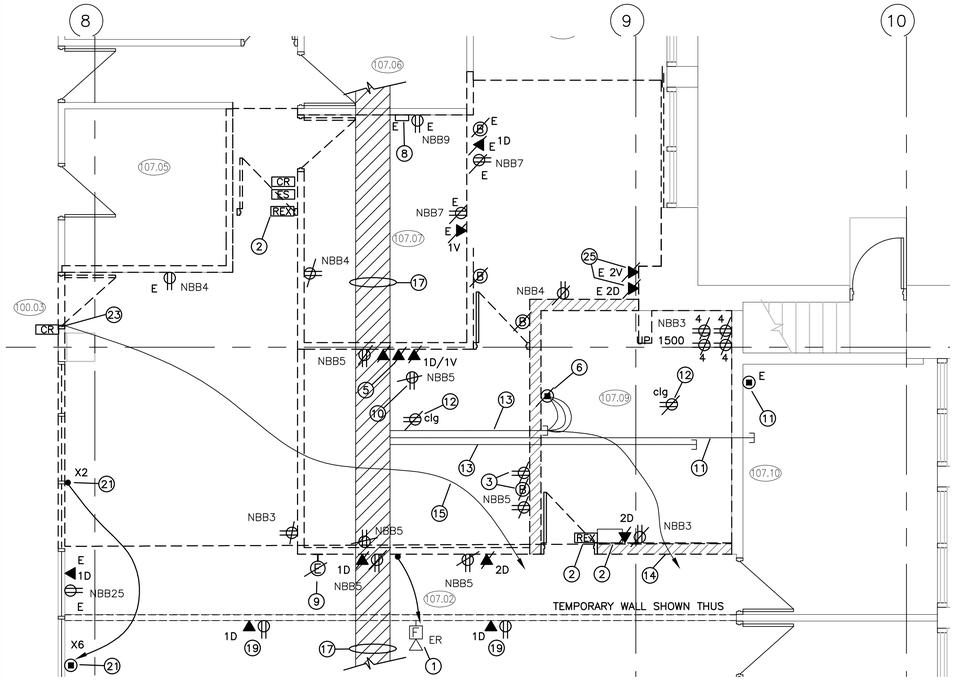

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1 / E1.0 MAIN FLOOR POWER & SYSTEMS DEMOLITION

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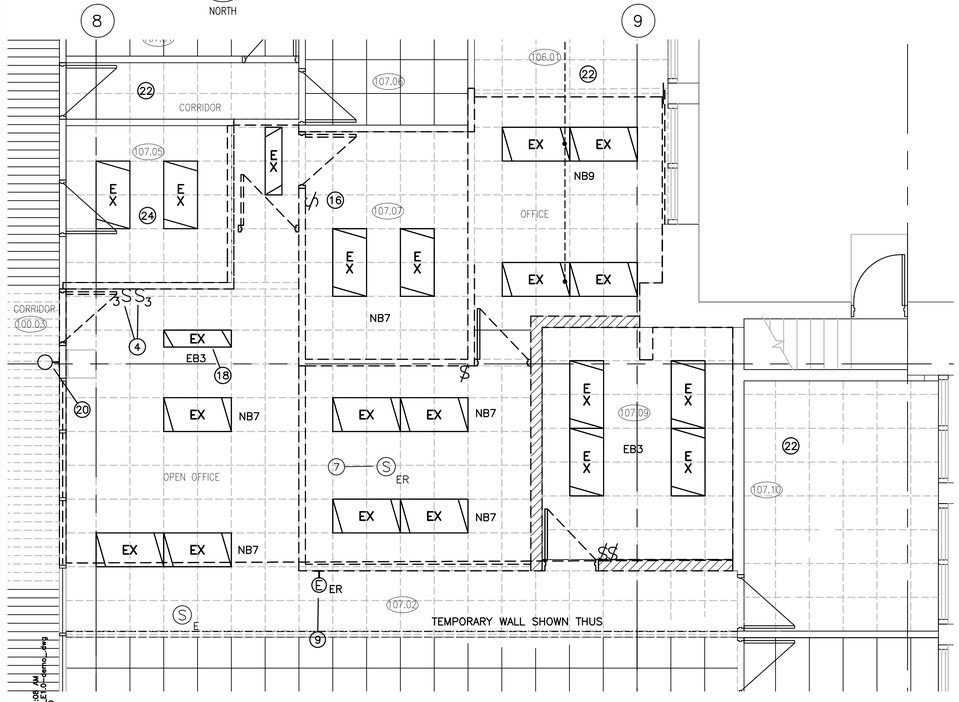

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2 / E1.0 MAIN FLOOR LIGHTING DEMOLITION

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MAIN FLOOR DEMOLITION KEYNOTES

1. REMOVE EXISTING FIRE ALARM SIGNAL DEVICES AND TEMPORARALY INSTALL ON NEW TEMPORARY WALL CONSTRUCTION AT THE SAME LOCATION. DEVICE SHALL BE MOVE TO PERMANENT WALL AND RE–VERIFIED AS OPERATIONAL BY FIRE ALARM MANUFACTURER.
2. EXISTING DOOR ACCESS CONTROL DEVICES INCLUDING CARD READER, ELECTRIC STRIKE AND REQUEST TO EXIT DEVICE SHALL BE REMOVED AND TURNED OVER TO THE OWNER FOR SALVAGE. ALL ABANDONED WIRING AND CONDUITS SHALL BE REMOVED BACK TO THE NEAREST JUNCTION BOX IN THE CEILING SPACE. COORDINATE WITH DOOR ACCESS SUPPLIER.
3. REMOVE SURFACE MOUNTED WIREMOLD RACEWAYS AND ASSOCIATED WIRING BACK TO THE NEAREST JUNCTION BOX IN THE CEILING SPACE.
4. REMOVE THREE–WAY SWITCHES AND RE–WORK THE EXISTING LIGHTING CIRCUITS TO BE CONTROLLED FROM A NEW S.P.S.T. SWITCH MOUNTED IN THE EXISTING JUNCTION BOX, PROVIDE A BLANK COVER PLATE FOR THE SECOND ABANDONED SWITCH.
5. REMOVE EXISTING SURFACE MOUNTED FIBRE BOX AND FILL CORE HOLES IN FLOOR WITH CONCRETE. OWNER WILL REMOVE (2) EXISTING FIBRE CABLES AND RE–ROUTE TO A NEW LOCATION.
6. REMOVE EXISTING PAC–POLE AND ALL ASSOCIATED CABLES AND WIRING BACK TO THE NEAREST JUNCTION BOX IN THE CEILING SPACE.
7. DISCONNECT EXISTING CEILING MOUNTED SPEAKER AND RELOCATE TO NEW ROOM 107.9 AS SHOWN. RE–CONNECT AND VARIFY OPERATION OF DEVICE. PROVIDE NEW SPEAKER CABLE AS REQUIRED.
8. EXISTING SURFACE MOUNTED RACEWAY AND CABLES AND RECEPTACLE SHALL REMAIN. THE EXISTING MONITORING EQUIPMENT SHALL BE PROTECTED FROM DUST AND DAMAGE DURING THE CONSTRUCTION DEMOLITION AND CONSTRUCTION PHASE.
9. REMOVE THE EXISTING EMERGENCY BATTERY UNIT AND TURN OVER TO OWNER. PROVIDE A NEW EMERGENCY REMOTE UNIT (NEXUS COMPATIBLE) ON NEW WALL CONSTRUCTION. REFER TO SPECIFICATIONS.
10. REMOVE EXISTING A/V RECEPTACLE AND ASSOCIATED CONDUITS AND JUNCTION BOXES AND CABLES BACK TO THE NEAREST JUNCTION BOX IN THE CEILING SPACE.
11. EXISTING PAC–POLE AND ASSOCIATED DATA CABLES AND BRANCH CIRCUITRY SHALL REMAIN. PROVIDE NEW CONDUITS FOR CABLES THAT ARE NOT ABANDONED TO AVOID RUNNING IN THE CEILING SPACE OF THE NEW ROOM ADJACENT TO THIS LOCATION. REFER TO E2.0. (APPROXIMATELY 8 CABLES).
12. REMOVE EXISTING RECEPTACLE IN CEILING SPACE AND ALL ASSOCIATED WIRING AND CONDUIT BACK TO THE ADJACENT SPACE. REFER TO E2.0 FOR REQUIREMENTS FOR ROOM 107.9.
13. CUT–BACK THE EXISTING CONDUITS TO A POINT WEST OF THE NEW WALL CONSTRUCTION AND RE–ROUTE EXISTING DATA AND VOICE CABLES THAT ARE NOT ABANDONED BY THIS RENOVATION.
14. CUT–BACK THE EXISTING CONDUITS TO A POINT WEST OF THE NEW WALL CONSTRUCTION AND RE–ROUTE EXISTING DATA AND VOICE CABLES THAT ARE NOT ABANDONED BY THIS RENOVATION. (APPROXIMATELY 7 CABLES).
15. RE–ROUTE EXISTING DATA CABLES THAT ARE RUN 'FREE AIR' IN THE CEILING SPACE ABOVE THE RENOVATED AREA SO THAT THEY DO NOT CROSS INTO THE NEW SPACE AS INDICATED ON E2.0. SUPPORT THE EXISTING CABLES FROM THE DECK ABOVE WITH NEW J–HOOKS AND VELCRO CABLE TIES TO AVOID CONDUITS AND MECHANICAL DUCTS. CABLES THAT ARE REQUIRED TO BE PULLED BACK SHALL BE RE–TERMINATED AND TESTED. ANY CABLES THAT ARE TO SHORT SHALL BE REPLACED WITH NEW CABLES TO MATCH EXISTING AND NEW TERMINATIONS PROVIDED AT BOTH ENDS AND TESTED. (APPROXIMATELY 25 CABLES).
16. REMOVE EXISTING LIGHT SWITCH AND INTERCEPT THE EXISTING CONTROL WIRING AND RUN TO A NEW S.P.S.T. SWITCH. REFER TO E2.0.
17. EXISTING CONDUITS IN RACK ABOVE CEILING SHALL REMAIN. RE–WORK CONDUITS AS NOTED.
18. RE–WIRE NEW LIGHT FIXTURE AT THIS LOCATION TO THE NORMAL POWER LIGHTING CIRCUIT AS SHOWN ON E2.0.
19. PROVIDE NEW RECEPTACLES ON TEMPORARY WALL AND CONNECT TO EXISTING CIRCUITS FOR RECEPTACLES THAT ARE BEING REMOVED. PULL EXISTING DATA CABLES FROM THE DEMOLITIONED WALL TO THE TEMPORARY WALL. REMOVE WIRING AFTER NEW CONSTRUCTION IS COMPLETE AND TEMPORARY WALL IS REMOVED.
20. REMOVE EXISTING WALL MOUNTED LIGHT FIXTURE AND RE–INSTALL AFTER NEW WALL FINISH HAS BEEN INSTALLED.
21. RELOCATE EXISTING PAC–POLE TO EXISTING OPEN OFFICE SPACE AND RUN NEW DATA CABLE. EXTEND EXISTING BRANCH CIRCUIT TO NEW LOCATION.
22. REMOVE EXISTING LIGHT FIXTURES TO ALLOW FOR REMOVAL OF THE EXISTING CEILING GRID. RE–INSTALL WHEN CEILING GRID HAS BEEN REPLACED AND RE–CONNECT TO EXISTING CIRCUIT.
23. CONTRACTOR SHALL CAREFULLY REMOVE EXISTING DOOR ACCESS CONTROL DEVICES AND TURN OVER TO OWNER FOR SALVAGE. REMOVE CONDUITS AND WIRING BACK TO NEAREST JUNCTION BOX IN THE CEILING SPACE.
24. TAKE DOWN EXISTING LIGHT FIXTURES FOR REMOVAL OF CEILING GRID. RE–INSTALL IN NEW GRID AND RE–CONNECT.
25. REMOVE EXISTING DEVICE AND CABLES BACK TO THE SOURCE AND INSTALL BLANK STAINLESS STEEL COVER PLATES.

GENERAL NOTES:

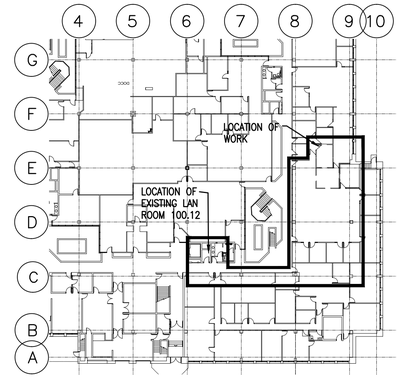
1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY DEMOLITION INCLUDING LIGHTING, ELECTRICAL AND COMMUNICATION SYSTEMS WITHIN THE BUILDING AS OUTLINED IN THE ELECTRICAL AND ARCHITECTURAL DRAWINGS. ALL ABANDONED CONDUIT, DUCTS, BOXES, WIRE AND COMMUNICATION CABLES (EXISTING CONDITIONS AND AS A RESULT OF THE RENOVATIONS) SHALL BE REMOVED.
2. WHERE WALLS AND OTHER EXISTING ITEMS ARE TO BE REMOVED, THE CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL DEVICES INCLUDING RECEPTACLES, SWITCHES, COMMUNICATIONS AND DATA OUTLETS AND FIRE ALARM DEVICES.
3. PATCH ALL EXISTING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF WHERE CONDUITS OR CABLES HAVE BEEN REMOVED. REPAIR ALL HOLES IN FLOORS TO MAINTAIN EXISTING FIRE RATINGS.
4. WHERE EXISTING OUTLETS ARE LOCATED ON WALLS THAT ARE NOT BEING REMOVED THE ELECTRICAL CONTRACTOR SHALL REMOVE THE EXISTING DEVICE AND PROVIDE A BLANK COVERPLATE.
5. EXISTING LIGHT FIXTURES SHALL BE REMOVED AND TURNED OVER TO THE OWNER FOR FIRST RIGHT OF REFUSAL OR REMOVED FROM THE SITE AS INSTRUCTED BY THE OWNER. MAINTAIN EXISTING LIGHTING CIRCUITS IN THE CEILING SPACE FOR NEW LIGHTING LAYOUT.
6. THERE ARE NUMEROUS EXISTING DATA AND A/V CABLES LOCATED IN THE CEILING SPACE RUNNING ON TOP OF THE CEILING GRID. ALL CABLES THAT ARE ABANDONED BY THIS RENOVATION SHALL BE REMOVED BACK TO THE SOURCE WHERE POSSIBLE. CABLES THAT ARE RE–ROUTED SHALL BE SUPPORTED BY J–HOOKS AND VELCRO STRAPS TO KEEP CABLES AWAY FROM DUCTWORK AND CONDUITS AND NOT LAYING ON THE NEW CEILING GRID.
7. ANY EXISTING JUNCTION BOXES LOCATED IN THE RENOVATED AREA THAT ARE MISSING COVER PLATES SHALL BE PROVIDED WITH NEW COVER PLATES INSTALLED.
8. THE EXISTING FIRE ALARM SYSTEM IN THE BUILDING IS A NOTIFIER SYSTEM.

SYMBOL SCHEDULE

- JUNCTION BOX/OUTLET BOX.
- CEILING/WALL SURFACE MOUNTED LIGHT FIXTURE.
- RECESSED 'LED LIGHT FIXTURE.
- EX — SUFFIX 'EX' DENOTES EXISTING FIXTURE TO BE REMOVED. RETAIN EXISTING WIRING AT NEAREST JUNCTION BOX IN CEILING SPACE.
- EMERGENCY LIGHTING BATTERY UNIT. SEE EMERGENCY LIGHTING SPECIFICATIONS FOR DETAILS. SUFFIX 'ER' INDICATES EXISTING UNIT TO BE RE–INSTALLED AND RE–CONNECTED.
- M — MOTOR CONNECTION. COORDINATE FINAL LOCATION ON SITE. 'STP' DESIGNATES MOTOR THERMAL SWITCH MOUNTED AT UNIT.
- MOULDED CASE TYPE CIRCUIT BREAKER, 15 AMP UNLESS OTHERWISE NOTED.
- WP — MOTOR DISCONNECT SWITCH, SUFFIX 'WP' INDICATES WEATHERPROOF.
- S — S.P.S.T. SWITCH MOUNTED UP 1200mm. SUFFIX 'F' FOR FAN CONTROL.
- 3S — THREE–WAY SWITCH MOUNTED UP 1200mm.
- DS — DIMMER SWITCH MOUNTED UP 1200mm, SUITABLE FOR LED LAMPS.
- F 'ER' — FIRE ALARM SIGNAL DEVICE (HORN/STROBE) SURFACE WALL MOUNTED UP 2290mm A.F.F. SUFFIX 'ER' INDICATES EXISTING TO BE RELOCATED.
- FS — FIRE ALARM SIGNAL DEVICE CEILING MOUNTED. SUBSCRIPT 'S' DENOTES SPEAKER. SUFFIX 'E' IS EXISTING TO REMAIN, 'ER' INDICATES EXISTING TO BE RELOCATED.
- DUPLEX GROUNDED RECEPTACLE OUTLETS WITH NO SUFFIX SHALL BE MOUNTED UP 450mm. WHERE SUFFIXED, MOUNT AS FOLLOWS: 'a'– 250mm. ABOVE COUNTER; 'b'– UP 900mm.
- 20A — DUPLEX GROUNDED RECEPTACLE, 20 AMP NEMA 5–20R T–SLOT MOUNTED UP 450mm OR AS NOTED.
- 4Plex — TWO DUPLEX GROUNDED RECEPTACLES MOUNTED IN A COMMON BOX. BODY OF RECEPTACLE SHALL BE IMPREGNATED 'BLUE' COLOUR FOR UPS.
- 1D/1V — DATA/VOICE OUTLET MOUNTED UP 450mm OR AS NOTED. 100mm. SQUARE BOX C/W SINGLE GANG EXTENSION AND 27 mm CONDUIT. UP TO AREA CONDUIT IN ACCESSIBLE CEILING. SUFFIX '1D' INDICATES ONE DATA JACK, '1V' INDICATES ONE VOICE JACK, '2D' INDICATES TWO DATA JACKS, ETC. UNLESS NOTED OTHERWISE, DATA AND VOICE CABLES SHALL BE RUN TO EXISTING PATCH PANELS IN EXISTING NETWORK ROOM. REFER TO SPECIFICATIONS FOR COLOR CODING.
- REX — EXISTING REQUEST TO EXIT DEVICE SHALL BE REMOVED AND ALL ASSOCIATED WIRING.
- CR — EXISTING CARD READER DEVICE SHALL BE REMOVED AND ALL ASSOCIATED WIRING.
- ES — EXISTING ELECTRIC STRIKE SHALL BE REMOVED AND ALL ASSOCIATED WIRING.
- EXISTING PAC–POLE SHALL BE REMOVED AND TURNED OVER TO THE OWNER FOR SALVAGE AS NOTED.
- RM — FIRE ALARM CONTROL/RELAY MODULE.
- MM — FIRE ALARM MONITOR MODULE.

NOTE:
SUBSCRIPT 'E' DENOTES EXISTING DEVICE TO REMAIN.
SUBSCRIPT 'ER' DENOTES EXISTING DEVICE TO BE RE–INSTALLED.
NO SUBSCRIPT OR 'N' INDICATES NEW DEVICE.

DEVICE WITH '/' INDICATES DEVICE, CONDUIT AND WIRING TO BE REMOVED BACK TO THE SOURCE.



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1 / — KEY PLAN – FLOOR PLAN

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ELECTRICAL DEMOLITION PLANS AND SYMBOL SCHEDULE

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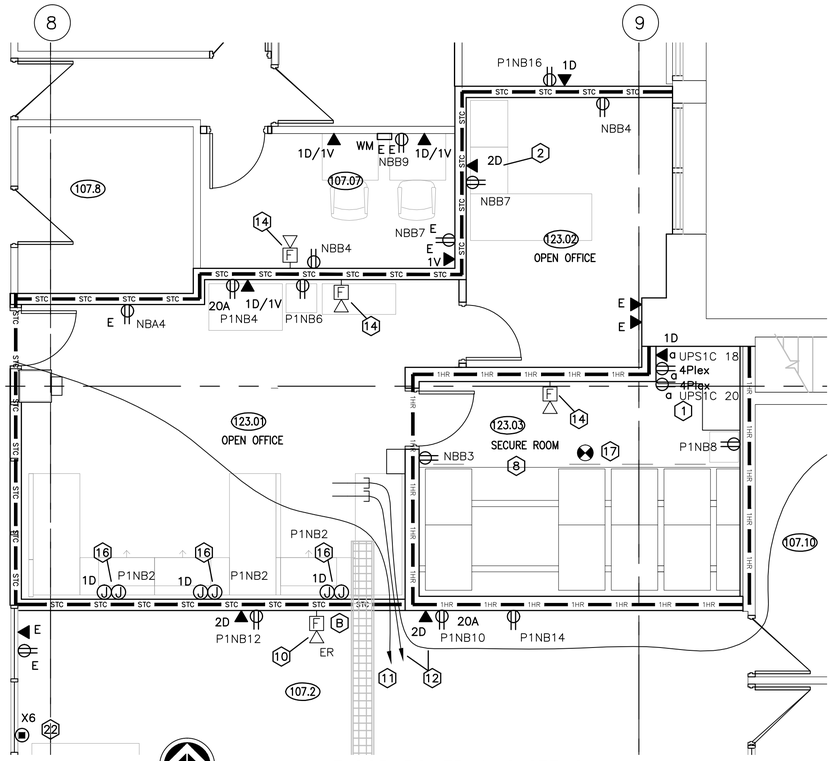

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1 E2.0 MAIN FLOOR POWER & SYSTEMS

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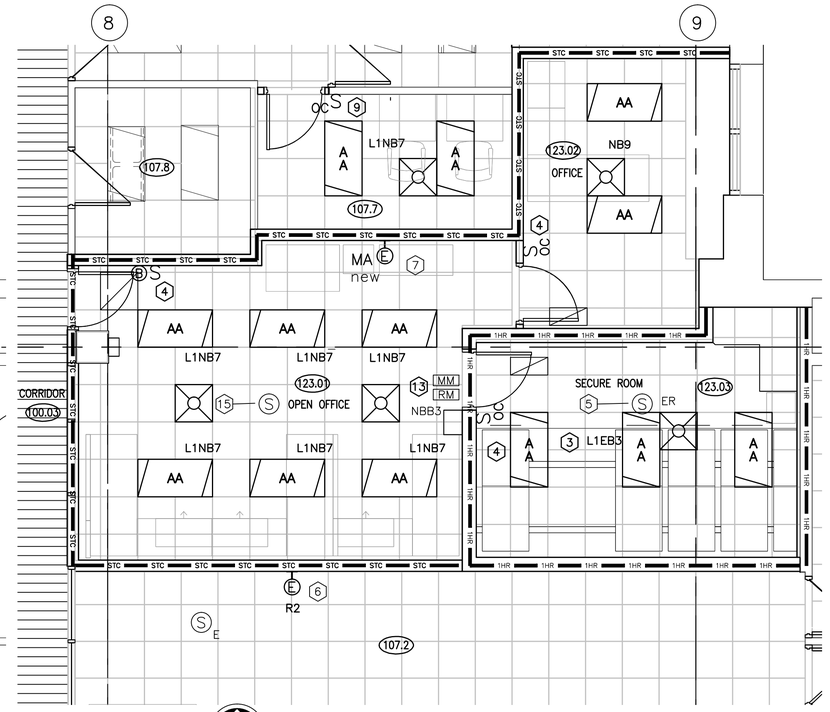

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2 E2.0 MAIN FLOOR LIGHTING

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MAIN FLOOR POWER KEYNOTES

1. MOUNT RECEPTACLES AND (ROSS) DATA OUTLET UP 250mm ABOVE THE COUNTER FOR OWNERS EQUIPMENT. CONFIRM COUNTER HEIGHT WITH ARCHITECTURAL MILLWORK DETAILS PRIOR TO ROUGH–IN.
2. PROVIDE NEW RECEPTACLE AND DATA OUTLETS. PROVIDE NEW DATA JACKS AND CABLE. CONNECT RECEPTACLE TO EXISTING CIRCUIT.
3. RE–WIRE & CONNECT LIGHT FIXTURE INTO EXISTING EMERGENCY LIGHTING CIRCUIT.
4. INTERCEPT THE EXISTING LIGHTING BRANCH CIRCUIT AND CONNECT THE FIXTURES IN THIS SPACE TO THE NEW VACANCY SENSOR LIGHT SWITCH.
5. RECONNECT PUBLIC ADDRESS SPEAKER TO THE EXISTING SIGNAL LOOP AND RE–VERIFY AS OPERATIONAL.
6. INSTALL NEW REMOTE EMERGENCY LIGHTING UNIT AND CONNECT TO NEW BATTERY UNIT. MOUNT UNIT AT THE SAME HEIGHT AS EXISTING. REFER TO SPECIFICATIONS.
7. PROVIDE A NEW EMERGENCY LIGHTING BATTERY UNIT AND CONNECT TO AREA LIGHTING NON–SWITCHED LEG OF THE BRANCH CIRCUIT. MOUNT UNIT AT THE SAME HEIGHT AS EXISTING. REFER TO SPECIFICATIONS.
8. ONLY CONDUITS WITH POWER AND DATA FEEDING THIS SPACE ARE TO BE RUN IN THE ACCESSIBLE CEILING. ALL OTHER CONDUITS OR CABLES SHALL BE ROUTED OUTSIDE OF THIS SPACE. REFER TO DEMOLITION DRAWINGS.
9. NEW VACANCY SENSOR / DIMMER SWITCH SUITABLE FOR LED CONNECTED TO EXISTING LIGHTING BRANCH CIRCUIT.
10. RE–CONNECT EXISTING FIRE ALARM DEVICE TO THE EXISTING FIRE ALARM SIGNAL LOOP AND RE–VERIFY OPERATION OF DEVICE.
11. REFER TO DRAWING E1.0 FOR EXISTING DATA CABLES NOTE 15.
12. REFER TO DRAWING E1.0 FOR EXISTING DATA CABLES AND CONDUITS NOTES 11, 13, 14.
13. FIRE/SMOKE DAMPER SHALL BE CONTROLLED BY THE FIRE ALARM SYSTEM. PROVIDE A NEW FIRE ALARM CONTROL RELAY MODULE AT OR NEAR THE SMOKE DAMPER. PROVIDE A 24 VOLT POWER CONNECTION FROM THE FIRE ALARM PANEL TO THE SMOKE DAMPER'S ELECTRIC ACTUATOR. PROVIDE A FIRE ALARM MONITOR MODULE FOR THE SMOKE DAMPER TO MONITOR THE OPEN/CLOSE STATUS OF THE END SWITCH PROVIDED WITH THE EXTERNAL CONTACTS. CONFIRM LOCATION AND COORDINATE VOLTAGE WITH MECHANICAL CONTRACTOR.
14. PROVIDE A NEW FIRE ALARM SIGNAL DEVICE TO MATCH EXISTING AND CONNECT TO EXISTING FIRE ALARM SIGNAL LOOP.
15. PROVIDE A NEW PUBLIC ADDRESS SPEAKER TO MATCH EXISTING AND CONNECT TO EXISTING SIGNAL LOOP. SPEAKER SHALL BE SECURE MODEL AS LISTED WITH SECURITY EQUIPMENT GUIDE.
16. PROVIDE JUNCTION BOXES UP 450MM FOR POWER AND DATA CONNECTIONS TO OWNER SUPPLIED SYSTEMS FURNITURE. DATA CABLES SHALL HAVE EXCESS COIL OF THREE METERS TO TERMINATE IN SYSTEM FURNITURE RACEWAY. POWER FEEDS SHALL BE CONNECTED TO THE SYSTEMS FURNITURE POWER WHIP BY THE ELECTRICAL CONTRACTOR.
17. PROVIDE A NEW FIRE COMBINATION TYPE MULTI–SENSOR SMOKE/HEAT DETECTOR AND CONNECT TO THE NEAREST EXISTING FIRE ALARM DETECTION LOOP.

(EXISTING ROOM 100.08)

PANEL P1NB

(120/208 V.–3ø–4W)

EXISTING P1NBA FILTERS & FINBA	1	2		WORK STATIONS *
	3	4	20	PRINTER/COPIER *
	5	6		SHREDDER *
EXISTING P1NBB	7	8		SHREDDER *
	9	10	20	COPIER *
	11	12		PLOTTER *
EXISTING P1NBC	13	14		SAFE *
	15	16		WORK STATION *
	17	18		SPACE
SPACE	19	20		
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	35	36		
	37	38		PTY FILTER EXISTING
	39	40		
	41	42		

225A BUS — S/N

EXISTING

(EXISTING ROOM 100.12)

UPS–1C

(120/208 V.–3ø–4W)

EXISTING	1	2		EXISTING
EXISTING	3	4		
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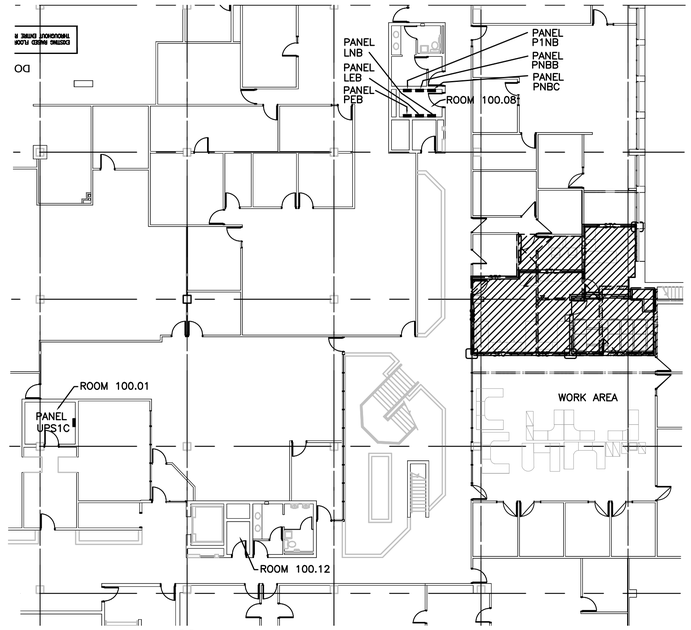
EXISTING	23	24		SPARE
EXISTING	25	26		SPARE
EXISTING	27	28		SPARE
SPACE	29	30		SPARE

S/N

EXISTING

NOTE:
THE EXISTING PANEL SCHEMATIC IS SHOWN FOR REFERENCE ONLY. THE CIRCUIT NUMBERS AND DESCRIPTIONS DO NOT NECESSARILY REFLECT ACTUAL CIRCUITS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL EXISTING BRANCH CIRCUITRY MODIFIED IN THIS RENOVATION AND SHALL MAINTAIN EXISTING BREAKERS TO ENSURE THE EXISTING CIRCUITRY THAT IS NOT ABANDONED ARE KEPT OPERATIONAL UNTIL NEW CIRCUITS ARE PROVIDED AS INDICATED ON THE PLANS. ALL ABANDONED BRANCH CIRCUITRY SHALL BE REMOVED BACK TO THE PANEL AND BREAKERS LABELED AS SPARE.

* INDICATES NEW CIRCUITS FED FROM A NEW BREAKER.



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3 E2.0 PARTIAL MAIN FLOOR KEY PLAN

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GENERAL NOTES:

1. ALL NEW DATA CABLES SHALL BE RUN BACK TO THE EXISTING NETWORK DATA RACK AND TERMINATED ON THE EXISTING PATCH PANELS. CABLES AND JACKS SHALL BE LABELED TO MATCH THE EXISTING SYSTEM. THE EXISTING DATA ROOM LOCATED ON THE MAIN FLOOR, APPROXIMATELY 80 METERS FROM THE RENOVATED SPACE.
2. PATCH ALL PENETRATIONS THROUGH WALLS, FLOORS TO MAINTAIN EXISTING FIRE RATINGS.
3. WHERE EXISTING OUTLETS ARE LOCATED ON WALLS THAT ARE NOT BEING REMOVED THE ELECTRICAL CONTRACTOR SHALL REMOVE THE EXISTING DEVICE AND PROVIDE A NEW DEVICE AND COVERPLATE.
4. THE EXISTING FIRE ALARM SYSTEM IS A NOTIFIER SYSTEM. ALL NEW AND RELOCATED FIRE ALARM DEVICES SHALL MATCH THE EXISTING MANUFACTURER AND BE VERIFIED BY NOTIFIER REPRESENTATIVE.
5. ONLY CONDUITS AND CABLES SERVING ROOM 107.9 ARE ALLOWED TO BE RUN IN THIS SPACE. ALL EXISTING CONDUITS AND CABLES NOT SERVING THIS ROOM SHALL BE RE–ROUTED TO BE OUTSIDE OF THIS SPACE. REFER TO DRAWING E1.0 DEMOLITION NOTES.
6. THE NEW TYPE 'AA' FIXTURES SHALL BE SUITABLE FOR AN IMPERIAL CEILING GRID NOT METRIC. REFER TO SPECIFICATIONS.

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ELECTRICAL POWER & SYSTEMS & LIGHTING PLANS

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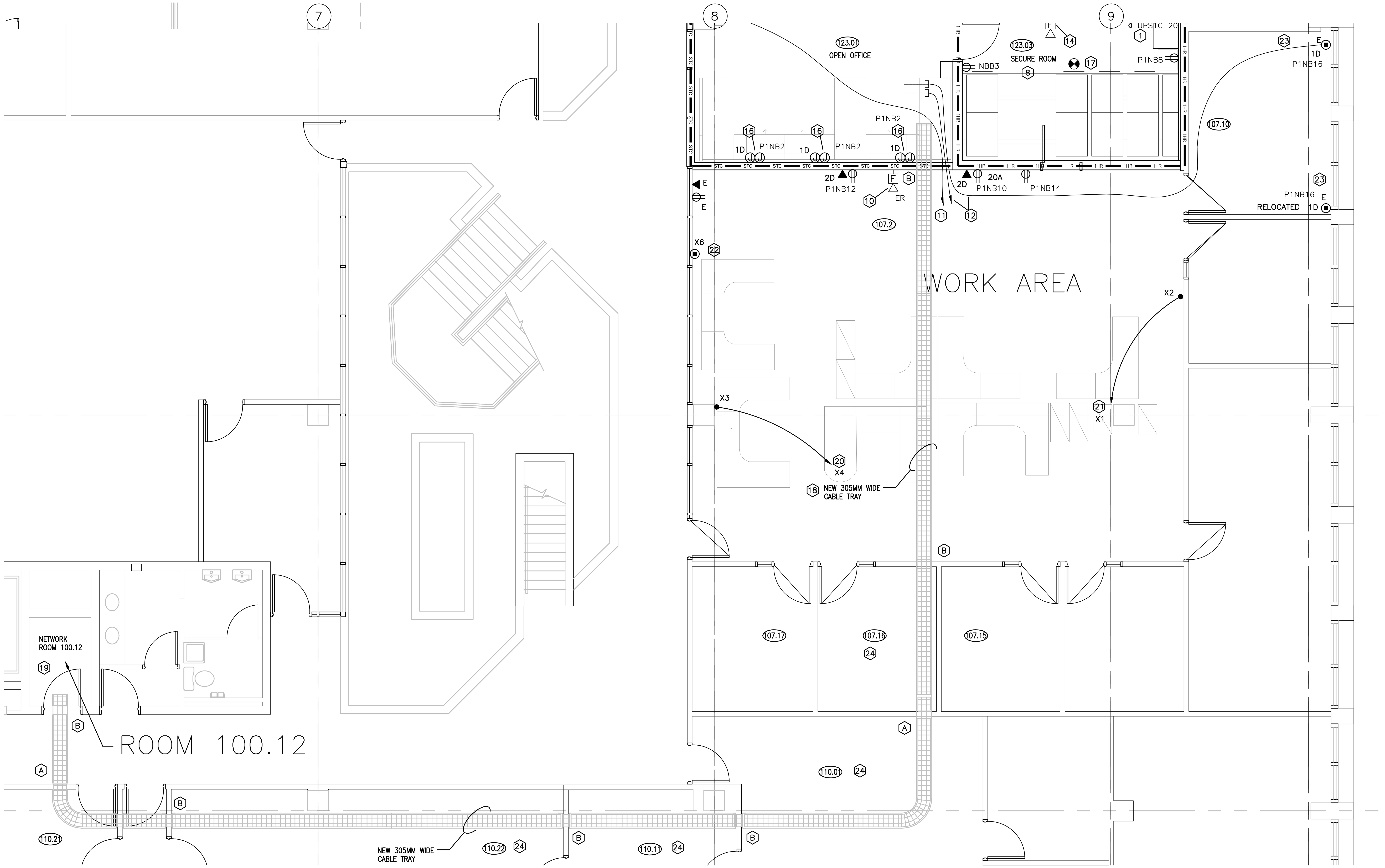

CABLE TRAY KEYNOTES

(A) PROVIDE FIRE RATED PATHWAY DEVICES IN NEW AND EXISTING FIRE RATED WALLS IN LOCATIONS AND QUANTITIES NOTED ON DRAWINGS; FIVE PATHWAYS FOR 610mm WIDE CABLE TRAY, AND THREE PATHWAYS FOR 305mm CABLE TRAY. FIRE RATED PATHWAYS SHALL BE INSTALLED AT THE SAME ELEVATION OF NEW CABLE TRAY, FOR FUTURE INSTALLATION OF DATA AND COMMUNICATION CABLE BY OWNER. PATHWAY DEVICES SHALL BE SQUARE PROFILE, 102MM X 118MM X 356MM LONG, PROVIDE A MINIMUM FIRE RATING OF 4 HOURS, BE MANUFACTURED OF HEAVY GAUGE GALVANIZED STEEL, WITH INTUMESCENT MATERIAL FOR RAPID EXPANSION WHEN EXPOSED TO FIRE OR HIGH TEMPERATURES. MULTIPLE DEVICES SHALL BE MOUNTED HORIZONTALLY IN-LINE USING MANUFACTURED WALL PLATES, AND ALL PENETRATIONS AROUND THE PERIMETER OF THE DEVICES SHALL BE FIRESTOPPED. FIRE RATED PATHWAY DEVICES SHALL BE STI EZ-PATH SERIES.

(B) PROVIDE OPENING IN EXISTING WALL ABOVE T-BAR CEILING LINE TO ALLOW FOR INSTALLATION OF NEW CABLE TRAY THROUGH THE WALL.

(C) CONTRACTOR SHALL COORDINATE THE INSTALLATION OF NEW CABLE TRAY WITH EXISTING SITE CONDITIONS. RUN TRAY OVER EXISTING DUCTWORK AS REQUIRED.

REFER TO ARCHITECTURAL DETAIL FOR OPENING IN WALL FOR CABLE TRAY INSTALLATION.

NORTH

1 / E2.1 MAIN FLOOR POWER & SYSTEMS
1:50

MAIN FLOOR POWER KEYNOTES CONTINUED:

(18) REMOVE CEILING GRID TO ALLOW FOR INSTALLATION OF NEW CABLE TRAY. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR EXTENT OF CEILING REMOVAL.

(19) RUN ALL NEW DATA CABLES FROM WALL OUTLETS TO NEW CABLE TRAY AND TERMINATE IN THE EXISTING PATCH PANELS IN THE EXISTING NETWORK ROOM.

(20) RELOCATE EXISTING INTERNET DROPS FROM WORKSTATION X3 TO WORKSTATION X4. IF EXISTING CABLES ARE TO SHORT PROVIDE NEW CABLES AND TERMINATIONS AT BOTH ENDS.

(21) RELOCATE EXISTING DATA DROP FROM WORKSTATION X2 TO WORKSTATION X1. IF EXISTING CABLES ARE TO SHORT PROVIDE NEW CABLES AND TERMINATIONS AT BOTH ENDS.

(22) RELOCATED PAC-POLE. MOVE EXISTING DATA DROP FROM WORKSTATION X5 TO WORKSTATION X6. PROVIDE NEW CABLES AND TERMINATIONS AT BOTH ENDS. REFER TO DRAWING E1.0 NOTE #21.

(23) RELOCATED PAC-POLES. PROVIDE NEW DATA CABLES AND TERMINATE AT THE EXISTING PATCH PANEL. PROVIDE NEW BRANCH CIRCUITS AS SHOWN.

(24) CONTRACTOR SHALL COVER EXISTING FURNITURE AND EQUIPMENT IN ROOMS WHERE ACCESS TO THE CEILING SPACE IS REQUIRED FOR INSTALLATION OF CABLE TRAY TO PROTECT FROM DUST. FURNITURE THAT IS REQUIRED TO BE MOVED SHALL BE CAREFULLY MOVE BY THE CONTRACTOR TO AVOID DAMAGE. COORDINATE WORK IN THESE ROOMS WITH THE OWNER PRIOR TO ANY CONSTRUCTION.

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5		
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3		
2	99% Check Set	2018-04-27
1	50% Check Set	2018-01-24
0	33% Check Set	2017-12-22

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HSU INTERIOR RENOVATION
REGINA, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par

Drawn by/Dessine par
GTK

Project Manager/Administrateur de Projets
CS

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin
ELECTRICAL POWER & SYSTEMS AND CABLE TRAY

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
42/17	E2.1	0

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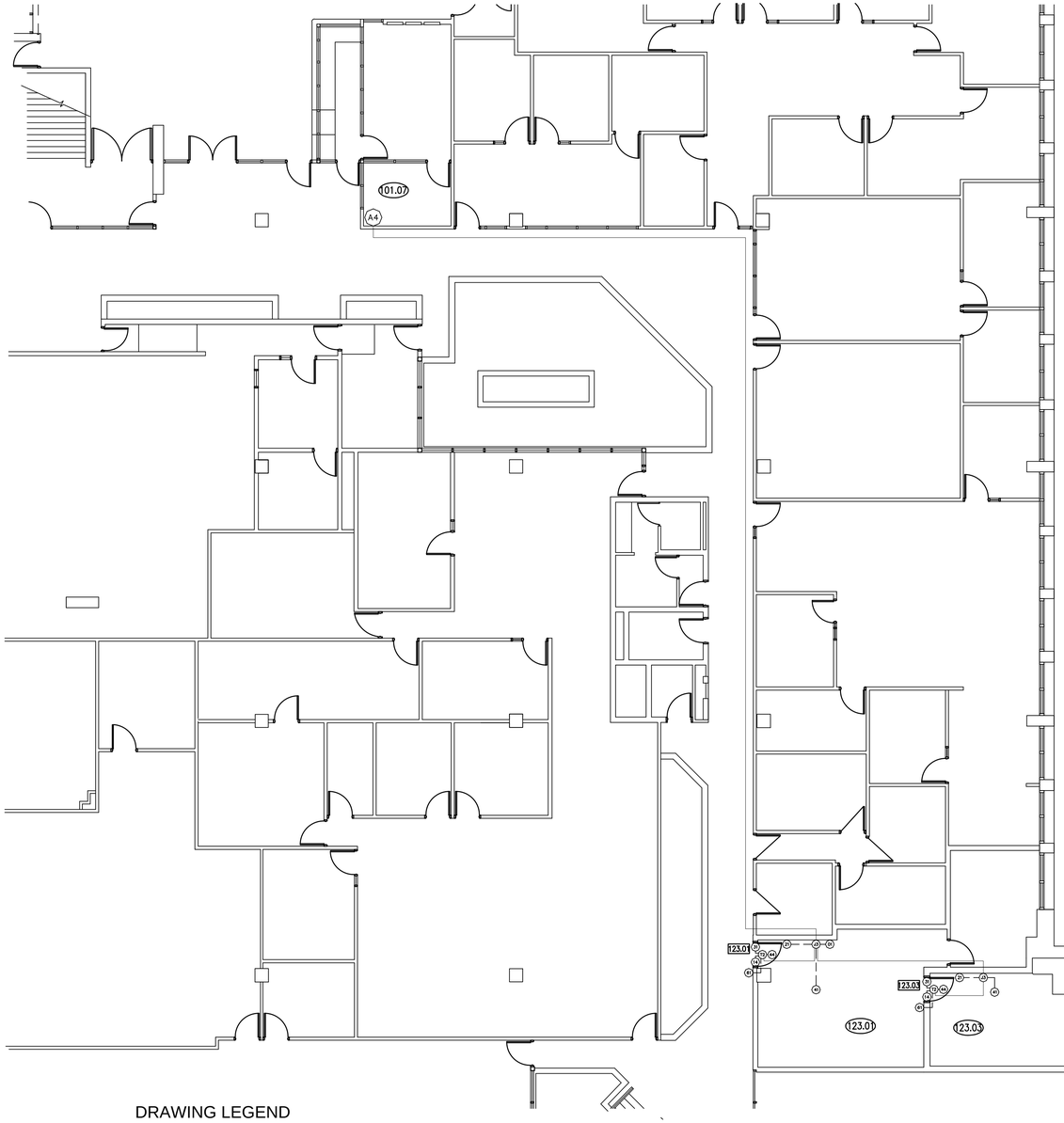
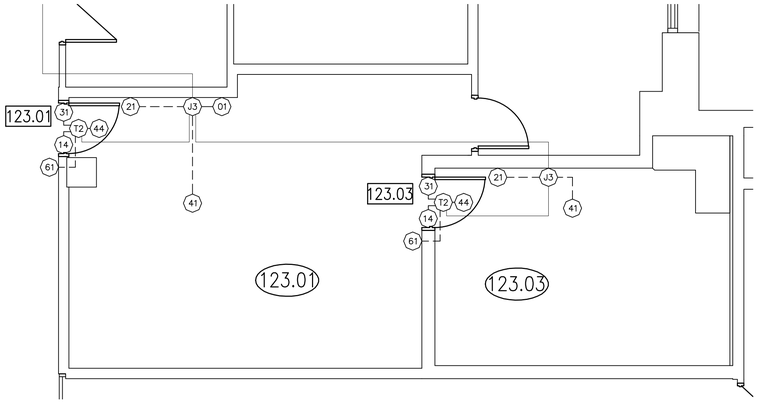




NORTH

2 / E3.0 MAIN FLOOR PARTIAL PLAN
1:50

DRAWING LEGEND

— — — 13mm Conduit unless specified otherwise

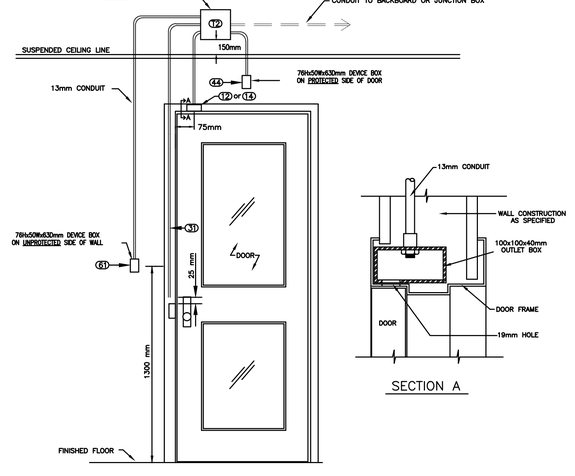
——— Conduit sized to fit cables unless specified otherwise (minimum 19mm)

NORTH

1 / E3.0 MAIN FLOOR ACCESS CONTROL SYSTEMS
1:100

Detail Drawing

ACCESS CONTROL – ELEVATION OF SINGLE DOOR WITH DOOR CONTACT, WALL MOUNTED READER AND ELECTRIC STRIKE



ELEVATION

SECTION A

NOTES:

CONDUIT CONNECTOR TO BE MOUNTED AND FASTENED TO OUTLET BOX BY DOOR FRAME FABRICATOR.

OUTLET BOX TO BE SPOT WELDED IN PLACE BY DOOR FRAME FABRICATOR.

DRILL A 19MM HOLE AT 75MM (CENTER POINT) FROM THE EDGE OF THE DOOR CASING TO ALLOW FOR DOOR SWITCH INSTALLATION AND ACCESS TO WIRING.

SCALE: N.T.S.

File: Access Control – Single Door, wall mount reader & electric strike as of 20yy-mm-dd.dwg

3 / E3.0 DOOR DETAIL
N.T.S.

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DRAWING: E3.0

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0 10 20 30 40 50 60 70 80 90 100mm

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BUILDING SECURITY & ACCESS CONTROL CONDUIT LAYOUT

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
42/17	E3.0	0

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