

Revision/Revision	Description/Description	Date/Date
1	Issued for Tender	2016.06.01

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**MISSION MEDIUM INSTITUTION
MISSION, BC**

**HOBBY SHOP
DUST EXTRACTION
AND HVAC UPGRADE**

Consultant Signature Box Only

Designed by/Concept par
JNG

Drawn by/Dessiné par
LB

PWGSC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

PWGSC Regional Manager, Architectural and Engineering Services/
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
Prestipal Paul

Drawing title/Titre du dessin

**MECHANICAL LEGEND,
NOTES, AND SITE PLAN**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.076034.001	M001	1
	1 OF 13	



1 SITE PLAN
M-001 SCALE: N.T.S.

LEGENDS AND ABBREVIATION

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
SA-T	DISCH. SUPPLY AIR TEMPERATURE
OA-T	OUTSIDE AIR TEMPERATURE
OA-D	OUTSIDE AIR DAMPER
MA-D	MIXED AIR DAMPER
TYP	TYPICAL
BB	BLOW-BACK DAMPER
BD	BALANCE DAMPER
BDD	BACK-DRAFT DAMPER
FD	FIRE DAMPER
RTU	ROOF TOP UNIT
MAU	MAKEUP AIR UNIT
AHU	AIR HANDLING UNIT
SF	SUPPLY FAN
EF	EXHAUST FAN
WF	WALL-FIN HEATER
L/S	LITRES PER SECOND
CFM	CUBIC FEET PER MINUTE

GENERAL DRAWINGS

① SPECIFIC KEY NOTE
⊕ CONNECT TO EXISTING SERVICES
DRAWING REVISION NO.
Ⓜ MECHANICAL EQUIPMENT TAG
NEW AIR TERMINAL TAG
RETURN R
SUPPLY S
EXHAUST E
AIR FLOW TAG FOR EXISTING TERMINALS (L/S)
AIR FLOW DIRECTION

△ SECTION NO. ON SHEET NO.
① DETAIL DETAIL NO. FROM SHEET NO.
① SECTION SECTION NO. FROM SHEET NO.

TYPE
— FLOW (L/S)
— SIZE (MM)

← AIR FLOW DIRECTION

MECHANICAL LEGEND:

AIR DISTRIBUTION

BRANCH TAKEOFF SQUARE->SQUARE
BRANCH TAKEOFF SQUARE->ROUND
FIRE DAMPER IN VERTICAL DUCT, PLAN & ELEVATION
SUPPLY DUCT TOWARD, AWAY
DUCT DIMENSIONS, SIDE FACING X DEPTH
SQUARE ELBOW WITH MULTI-BLADE TURNING VANES
BALANCING DAMPER
FIRE DAMPER IN HORIZONTAL DUCT
FLEXIBLE CONNECTION
COMBINATION FIRE & SMOKE DAMPER
DUCT MOUNTED DDC ROOM SENSOR
INCLINED DROP
INCLINED RISE
ROUND DUCT & SIZES
ROUND DUCT TOWARDS
ROUND DUCT AWAY

AIR DISTRIBUTION

DUCTWORK TO BE REMOVED
EXISTING DUCTWORK
NEW DUCTWORK
SINGLE LINE DUCTWORK
CAPPED OFF DUCT
ACOUSTIC INSULATION
BACK DRAFT DAMPER
FIRE DAMPER
MOTORIZED DAMPER C/W ACTUATOR
DUCT CAP-OFF
EXISTING DIFFUSER OR GRILLE TO REMAIN
EXISTING DIFFUSER OR EQUIPMENT TO BE REMOVED
RETURN AIR GRILLE
EXHAUST AIR GRILLE
DOOR UNDERCUT 20MM
ACCESS PANEL (450x450) U.N.O.

CONTROLS

CONTROL WIRING
NEW THERMOSTAT
RELOCATED EXISTING THERMOSTAT
EXISTING THERMOSTAT TO BE REMOVED
EXISTING VARIABLE SPEED SWITCH TO BE REMOVED
WALL SWITCH FOR FAN
DIFFERENTIAL PRESSURE SENSOR
SMOKE SENSOR / SMOKE DETECTOR
DOOR SENSOR

HVAC PIPING

HWS HOT WATER HEATING SUPPLY
HWR HOT WATER HEATING RETURN

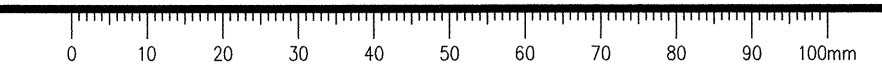
PLUMBING PIPING

G GAS LINE
STW STORM WATER LINE

DRAWING LIST:

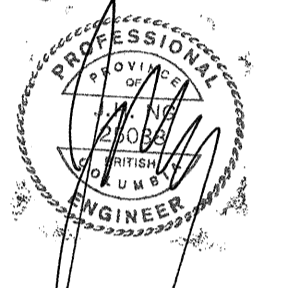
DWG. NO.	NAME	DESCRIPTION	SCALE
1 OF 13	M001	MECHANICAL LEGEND, NOTES AND SITE PLAN	N.T.S.
2 OF 13	M100	RENOVATION NOTES	1:50
3 OF 13	M101	MECHANICAL FLOOR PLAN HOBBY SHOP - DEMOLITION	1:50
4 OF 13	M102	MECHANICAL FLOOR PLAN HOBBY SHOP - NEW	1:50
5 OF 13	M103	MECHANICAL ROOF PLAN HOBBY SHOP - NEW	1:50
6 OF 13	M200	MECHANICAL HVAC SECTIONS	1:50
7 OF 13	M300	MECHANICAL DETAILS	N.T.S.
8 OF 13	M400	MECHANICAL EQUIPMENT SCHEDULES	N.T.S.
9 OF 13	E001	ELECTRICAL LEGEND, NOTES AND SITE PLAN	N.T.S.
10 OF 13	E100	ELECTRICAL FLOOR PLAN HOBBY SHOP - NEW	1:100
11 OF 13	S501	STRUCTURAL GENERAL NOTES, AND ABBREVIATIONS	N.T.S.
12 OF 13	S502	STRUCTURAL DUST COLLECTOR PAD AND FENCE, PARTIAL ROOF PLAN	1:50
13 OF 13	S503	STRUCTURAL SECTIONS AND DETAILS	AS NOTED

- GENERAL NOTES :**
- THESE CONTRACT DRAWINGS ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL CONFIRM AND LAY-OUT EXACT LOCATIONS, SIZES, AND ELEVATIONS OF ALL CRITICAL LOCATIONS AND DIMENSIONS AT THE SITE AND PROVIDE ANY NECESSARY OFFSETS AND ADJUSTMENTS TO SUIT SITE CONDITIONS AND AVOID CONFLICT WITH OTHER TRADES PRIOR TO COMMENCING WITH WORK.
 - ALL TRADES TO CLOSELY COORDINATE ALL WORK WITH THE PRIME CONTRACTOR, AS WELL AS ALL OTHER AFFECTED SUB-TRADES.
 - THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE COMPLIMENTARY. ANYTHING CALLED FOR IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS SHALL BE CONSIDERED AS APPEARING IN BOTH. EACH DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWINGS FROM ALL OTHER DISCIPLINES, AS WELL AS WITH ALL APPLICABLE SECTIONS OF THE SPECIFICATIONS.
 - UNLESS OTHERWISE SPECIFIED, ALL MATERIALS AND EQUIPMENT REQUIRED FOR THIS WORK SHALL BE NEW, OF GOOD QUALITY AND SHALL BE FURNISHED, DELIVERED, ERECTED, CONNECTED AND FINISHED IN EVERY DETAIL, AND SHALL BE SELECTED AND ARRANGED SO AS TO FIT PROPERLY INTO THE BUILDING SPACES. WHERE NO SPECIFIC KIND OR QUALITY OF MATERIAL IS GIVEN, A GOOD STANDARD ITEM AS APPROVED BY THE CONSULTANT SHALL BE FURNISHED. WHERE SPECIFIC INSTALLATION METHOD IS NOT GIVEN, INSTALL IN ACCORDANCE WITH GOOD PRACTICE.
 - USE SKILLED AND QUALIFIED, FITTERS, PLUMBERS, METAL WORKERS, WELDERS, HELPERS, AND LABOURERS REQUIRED TO UNLOAD, TRANSFER, ERECT, CONNECT UP, ADJUST, START, OPERATE AND TEST SUCH SYSTEMS. HELPERS AND UNQUALIFIED WORKERS SHALL BE DIRECTLY SUPERVISED AT ALL TIMES WHILE WORKING ON THE SITE BY QUALIFIED TRADES PERSONS.
 - PATCH AND MAKE GOOD ALL CEILINGS, ROOFS, WALLS, FLOORS, AND ALL ARCHITECTURAL FEATURES ALTERED OR REMOVED IN THE PERFORMANCE OF THE WORK.





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PWOSC Project Manager/Administrateur de Projets TPSCC

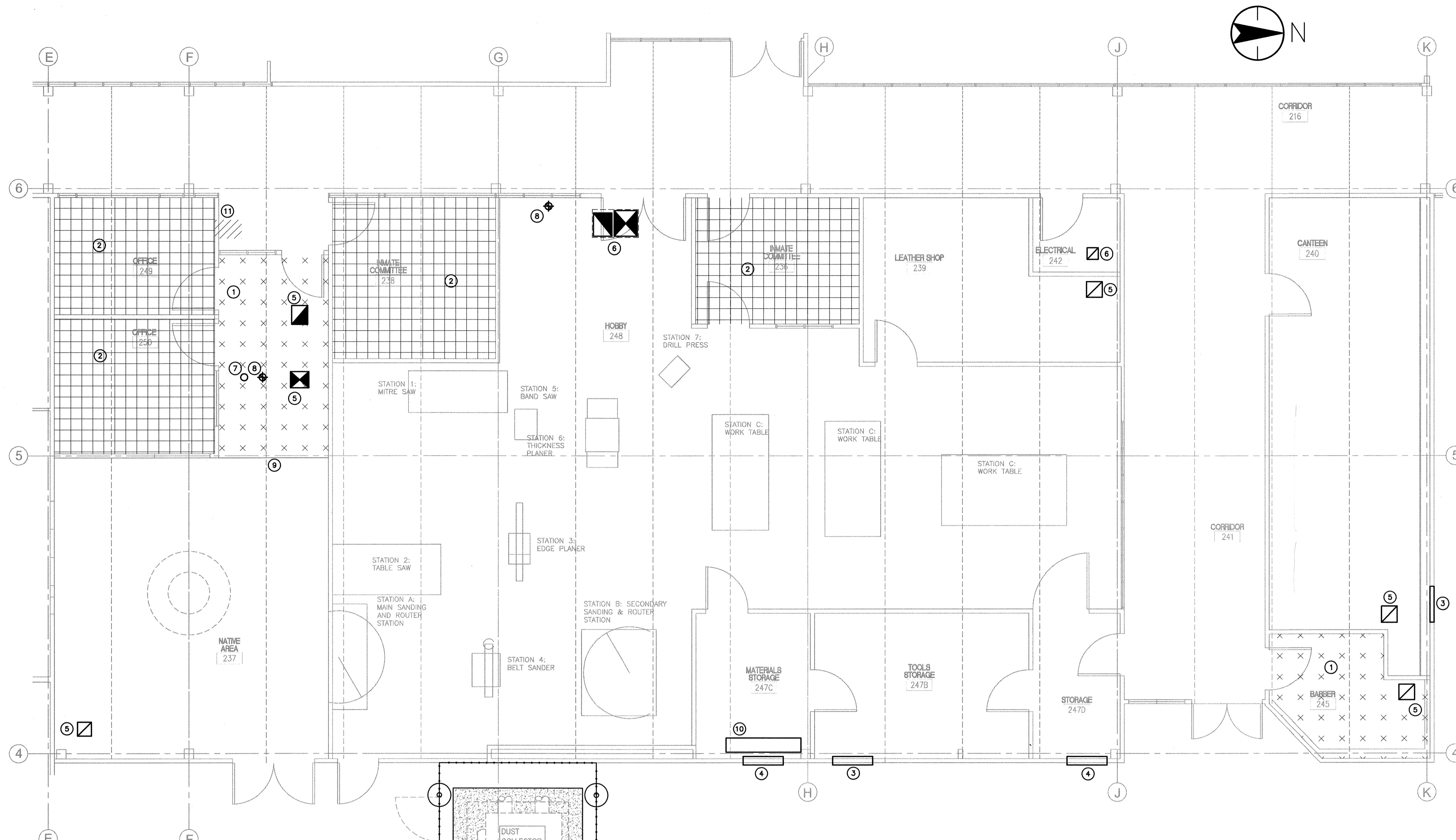
Daryl Sinclair

PWOSC, Regional Manager, Architectural and Engineering Services /
Gestionnaire régionale, Services d'architectural et de génie, TPSCC
Preetpal Paul

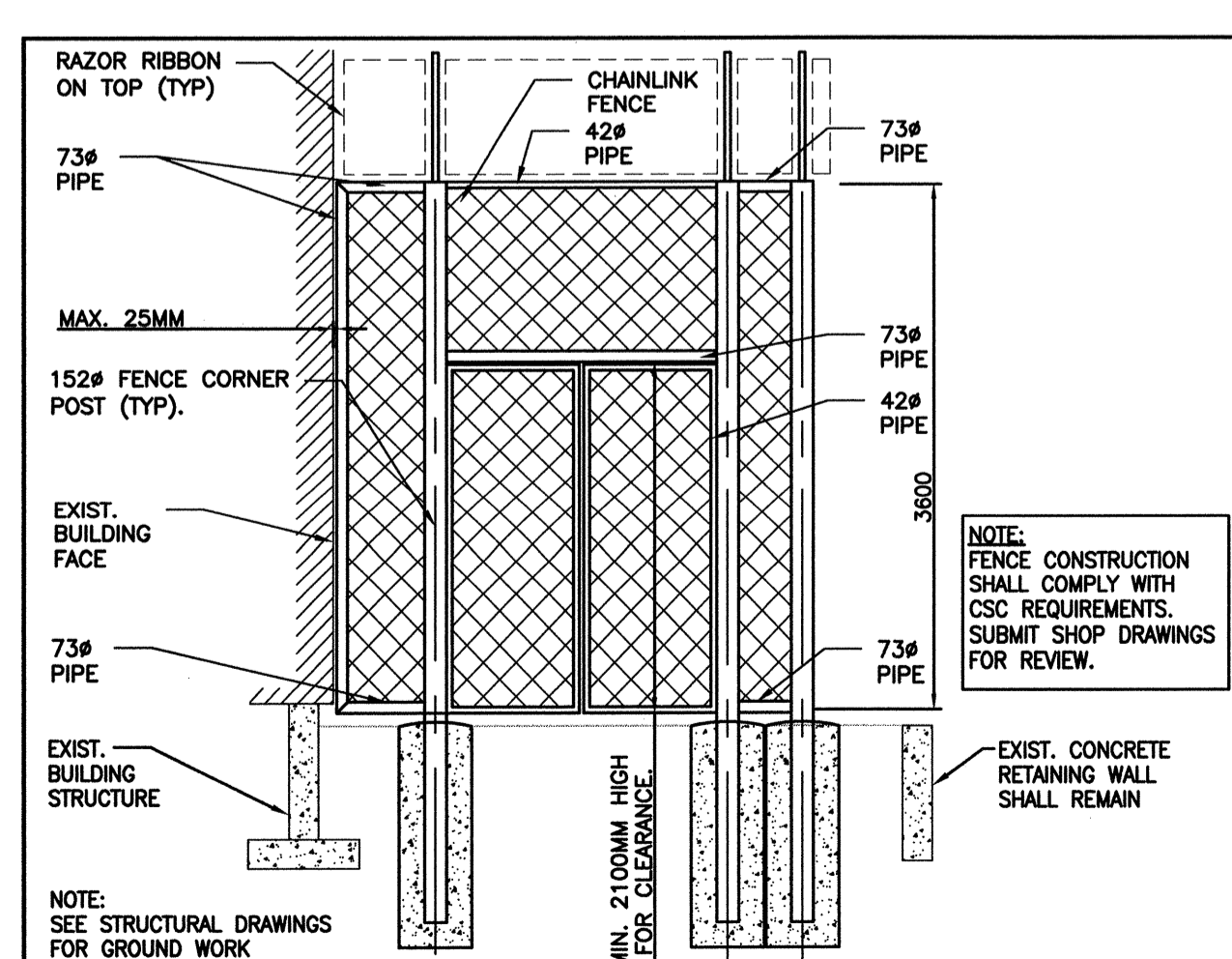
Drawing title/Titre du dessin

RENOVATION NOTES

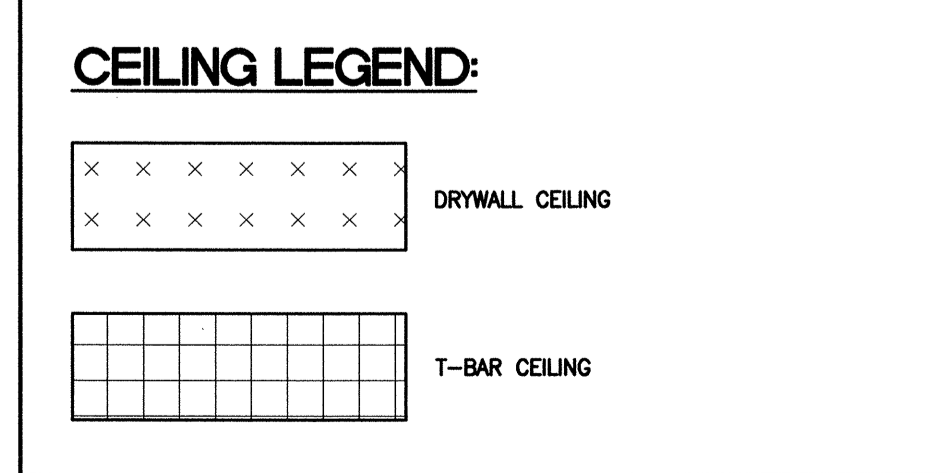
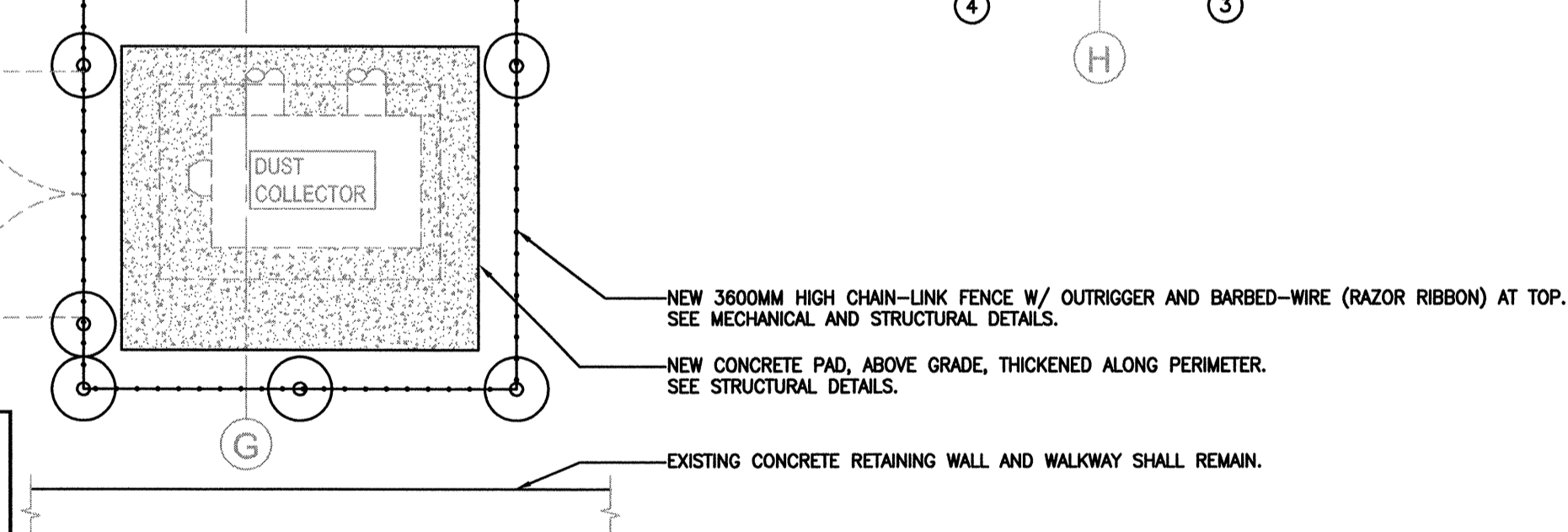
Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
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1 RENOVATION NOTES - PLAN VIEW
M100 SCALE: 1:50



2 CHAIN-LINK FENCE DETAIL
M100 SCALE: 1:50

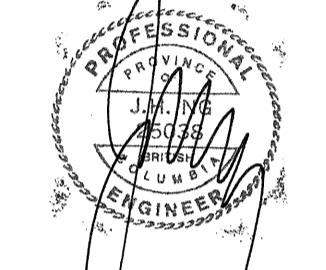


- GENERAL NOTES:**
- PATCH AND MAKE GOOD ALL DAMAGE CAUSED BY MECHANICAL WORK. SEE MECHANICAL DRAWINGS M101, M102 AND M103.
 - PATCH AND MAKE GOOD ALL EXISTING ROOF, WALL, FLOOR PENETRATIONS FOR NEW MECHANICAL WORK.
 - PATCH, FILL AND MAKE GOOD CEILINGS AND WALLS AT DECOMMISSIONED PENETRATIONS. PROVIDE TYPE "X" GYP, FILL WITH BATT INSULATION. PAINT AND MAKE GOOD TO MATCH EXISTING, TYPICAL.
 - RESTORE DRYWALL BULKHEADS THAT ARE DAMAGED DUE TO MECHANICAL WORK. BULKHEAD HEIGHT SHALL MATCH PRE-RENOVATION CEILING HEIGHT.
 - T-BAR AND GYP CEILING HEIGHT SHALL MATCH PRE-RENOVATION CEILING HEIGHT.
 - DUCT PENETRATION THROUGH EXTERIOR WALL SHALL BE SEALED WATERTIGHT AND PROVIDED WITH FLASHING.
 - RELOCATE EXISTING LOCKERS AS REQUIRED FOR INSTALLATION OF DUST COLLECTION SYSTEM. COORDINATE RELOCATION AND PLACEMENT WITH DEPARTMENTAL REPRESENTATIVE.

- SPECIFIC KEY NOTES:**
- REMOVE AND REBUILD TYPE "X" DRYWALL CEILING AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL EQUIPMENT. REMOVE AND REINSTALL HATCHES, LUMINARIES, SENSORS, AND SPRINKLER HEADS. PAINT AND MAKE GOOD TO MATCH EXISTING.
 - REMOVE AND REPLACE T-BAR CEILING (TEES, PANELS AND WIRES) FOR INSTALLATION OF NEW MECHANICAL EQUIPMENT, DUCTS AND DIFFUSERS. REMOVE AND REINSTALL HATCHES, LUMINARIES, SENSORS, AND SPRINKLER HEADS AS REQUIRED. PAINT ALL CEILING TO MATCH EXISTING COLOUR.
 - PATCH, FILL AND MAKE GOOD EXISTING TYPE "X" GYP WALLS AT DECOMMISSIONED PENETRATIONS. SEAL CONTINUOUS VAPOUR BARRIER AROUND NEW PENETRATIONS. REINSTATE BATT INSULATION. MAKE GOOD SIDING AND REPAINT TO MATCH EXISTING.
 - REMOVE EXISTING LOUVERS, MODIFY LOUVER OPENING. INSTALL NEW RESIZED LOUVERS (SIZES PER MECHANICAL). MAKE GOOD SIDING AND REPAINT TO MATCH EXISTING. LOUVER HEAD, SILL AND JAMB DETAIL AS PER MECHANICAL DETAIL. PLACE ALL NEW DUCTWORK AND NEW LOUVERS BETWEEN EXISTING WALL STUDS. DO NOT DAMAGE OR MODIFY EXISTING WALL STUDS, HEADERS, BEAMS OR TRUSSES. MUST NOTIFY DEPARTMENTAL REPRESENTATIVE IF EXISTING CONDITIONS REQUIRE MODIFICATIONS TO THE EXISTING STRUCTURE FRAME.
 - MODIFY EXISTING DUCT OPENING THROUGH ROOF AS REQUIRED FOR NEW DUCT AND FAN SYSTEM.
 - PROVIDE NEW DUCT OPENING THROUGH ROOF AS REQUIRED FOR NEW DUCT AND FAN SYSTEM.
 - PATCH, FILL AND MAKE GOOD EXISTING ROOF AT DECOMMISSIONED GAS PIPE PENETRATIONS. SEAL WITH CONTINUOUS VAPOUR BARRIER AROUND NEW PENETRATIONS. PROVIDE SPRAY FOAM. MAKE GOOD ROOF AND UNDERSIDE OF Q-DECK AND RE-FINISH TO MATCH EXISTING.
 - PROVIDE NEW GAS PIPE OPENING THROUGH ROOF AS REQUIRED FOR NEW AIR HANDLING UNIT.
 - PROVIDE VERTICAL BULKHEAD AT THE TERMINATION OF GYP BOARD CEILING. CAULK ALL TERMINATIONS AT THE EXPOSED STRUCTURE.
 - REMOVE AND REINSTATE EXISTING CABINET AS REQUIRED FOR RE&RE OF EXISTING WALL-FIN HEATER.
 - CREATE NEW WALL OPENING FOR TRANSFER AIR DUCT.



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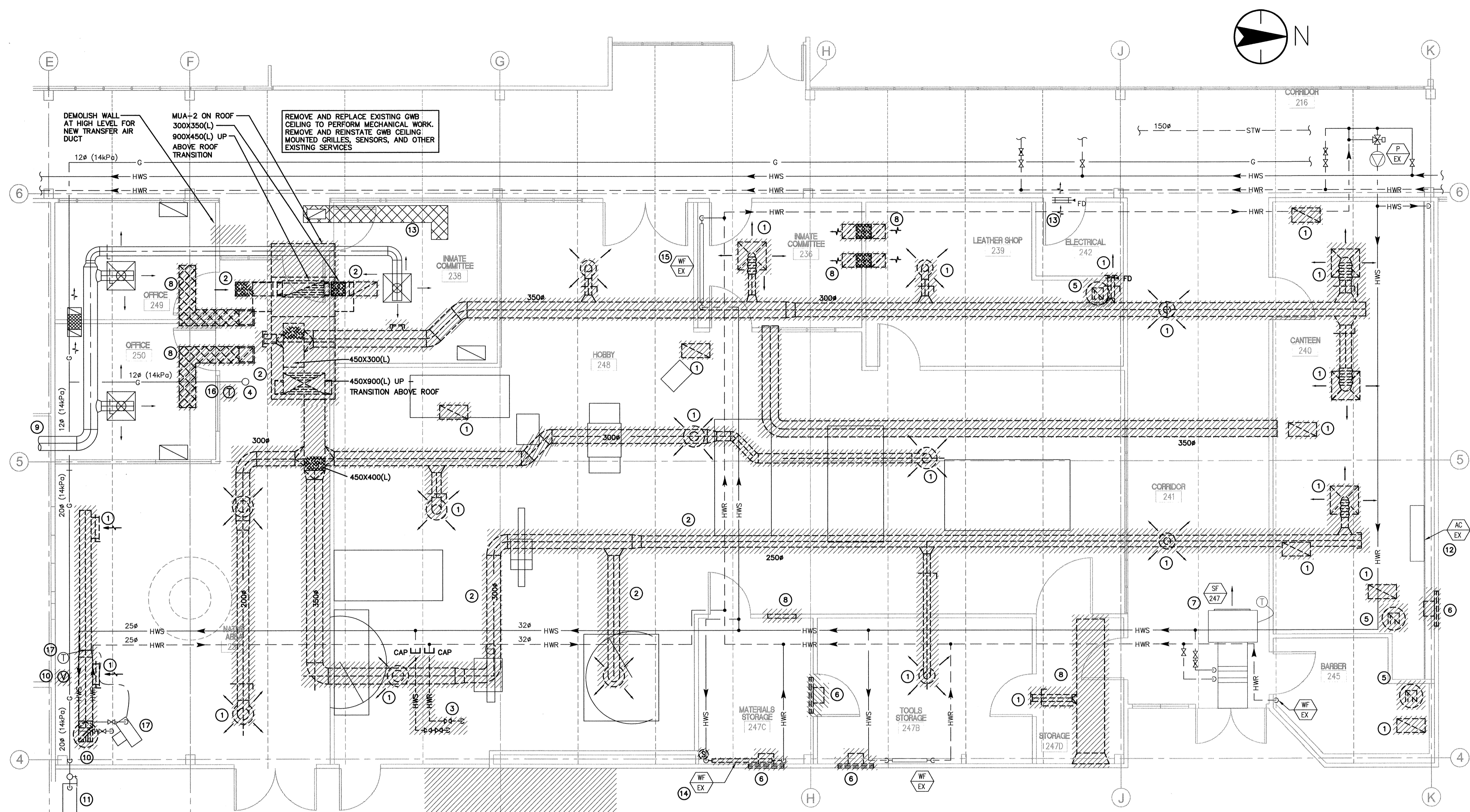
Daryl Sinclair
PWSC Regional Manager, Architectural and Engineering Services /
gestionnaire régionale, Services d'architecture et de génie, TPSGC

Preetpal Paul

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**MECHANICAL FLOOR PLAN
HOBBY SHOP - DEMOLITION**

Project No./No. du projet R.076034.001	Sheet/Fauille M101	Revision no./ La Révision no. 1
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1 FLOOR PLAN HOBBY SHOP - HVAC DEMOLITION
M101 SCALE: 1:50

REMOVE EXISTING LANDSCAPING FOR PLACEMENT OF NEW CONCRETE PAD AND FENCING.

EXISTING CONCRETE RETAINING WALL AND WALKWAY SHALL REMAIN.

GENERAL NOTES:

1. ALL REUSABLE MATERIALS SHALL BE PROTECTED FROM DAMAGE.
2. DEMOLITION AND CONSTRUCTION WASTE MANAGEMENT SHALL COMPLY WITH RELEVANT SPECIFICATION SECTIONS.
3. PATCH AND MAKE GOOD ALL DAMAGE CAUSED BY MECHANICAL WORK.
4. PATCH AND MAKE GOOD ALL EXISTING ROOF, WALL, FLOOR PENETRATIONS FOR NEW MECHANICAL WORK. SEE DRAWING M102.
5. KEEP EXISTING HOT WATER HEATING SUPPLY AND RETURN PIPING, ALLOW FOR CONNECTION TO NEW EQUIPMENT.
6. KEEP EXISTING GAS PIPING, ALLOW FOR CONNECTION TO NEW EQUIPMENT.
7. KEEP EXISTING STORM AND SANITARY PIPING.
8. ENLARGE EXISTING DUCT PENETRATIONS AS REQUIRED FOR NEW DUCTWORK. SEE DRAWING M102.

SPECIFIC KEY NOTES :

- 1 REMOVE EXISTING DIFFUSER, GRILLES, REGISTERS, LOUVRES AND ALL ASSOCIATED DUCTWORK.
- 2 REMOVE EXISTING MAKEUP AIR UNIT, DUCTWORK AND ALL ASSOCIATED CONNECTIONS. PROVIDE FOR EXISTING GAS LINE UNTIL NEW GAS LINE IS INSTALLED. DECOMMISSION CONTROLS AT BMS. REMOVE ALL ASSOCIATED CONTROL AND POWER WIRING. REMOVE THERMOSTAT CONTROLS.
- 3 REMOVE HOT WATER BRANCH PIPING AND CAP-OFF NEAR MAIN, THE EXISTING UNIT HEATER WAS REMOVED PREVIOUSLY.
- 4 DISCONNECT EXISTING GAS BRANCH PIPING TO EXISTING MAKEUP AIR UNIT. EXTEND AND CONNECT NEW GAS BRANCH PIPE, SEE DRAWING M102.
- 5 REMOVE EXISTING ROOF TOP EXHAUST FAN AND ALL ASSOCIATED DUCTWORK.
- 6 REMOVE EXISTING WALL TYPE PROPELLER EXHAUST FAN.
- 7 KEEP EXISTING SUPPLY FAN SF-247 AND ASSOCIATED CONTROLS.
- 8 REMOVE EXISTING TRANSFER AIR DUCT AND GRILLES. PATCH THE WALL OPENINGS AND MAKE GOOD FINISH.
- 9 KEEP EXISTING SUPPLY DUCTWORK AND ASSOCIATED DIFFUSERS AND DAMPERS FROM EXISTING AC-1.
- 10 REMOVE EXISTING EXHAUST FAN AND ASSOCIATED CONTROLS.
- 11 KEEP EXISTING GAS METER AND ASSOCIATED PIPING, VALVES, AND ACCESSORIES.
- 12 KEEP EXISTING AC UNIT AND ASSOCIATED CONTROLS.
- 13 KEEP EXISTING TRANSFER AIR DUCT AND SHEET METAL ACCESSORIES.
- 14 REMOVE AND REPLACE EXISTING WALL-FIN HEATER AND ASSOCIATED CONTROLS.
- 15 KEEP EXISTING WALL-FIN HEATER AND ASSOCIATED CONTROLS.
- 16 REMOVE EXISTING THERMOSTAT.
- 17 KEEP EXISTING UNIT HEATER AND ASSOCIATED CONTROLS.
- 18 KEEP EXISTING UNIT HEATER AND ASSOCIATED CONTROLS.





JUN 6 2016
 PROFESSIONAL ENGINEER
 DARYL SINCLAIR

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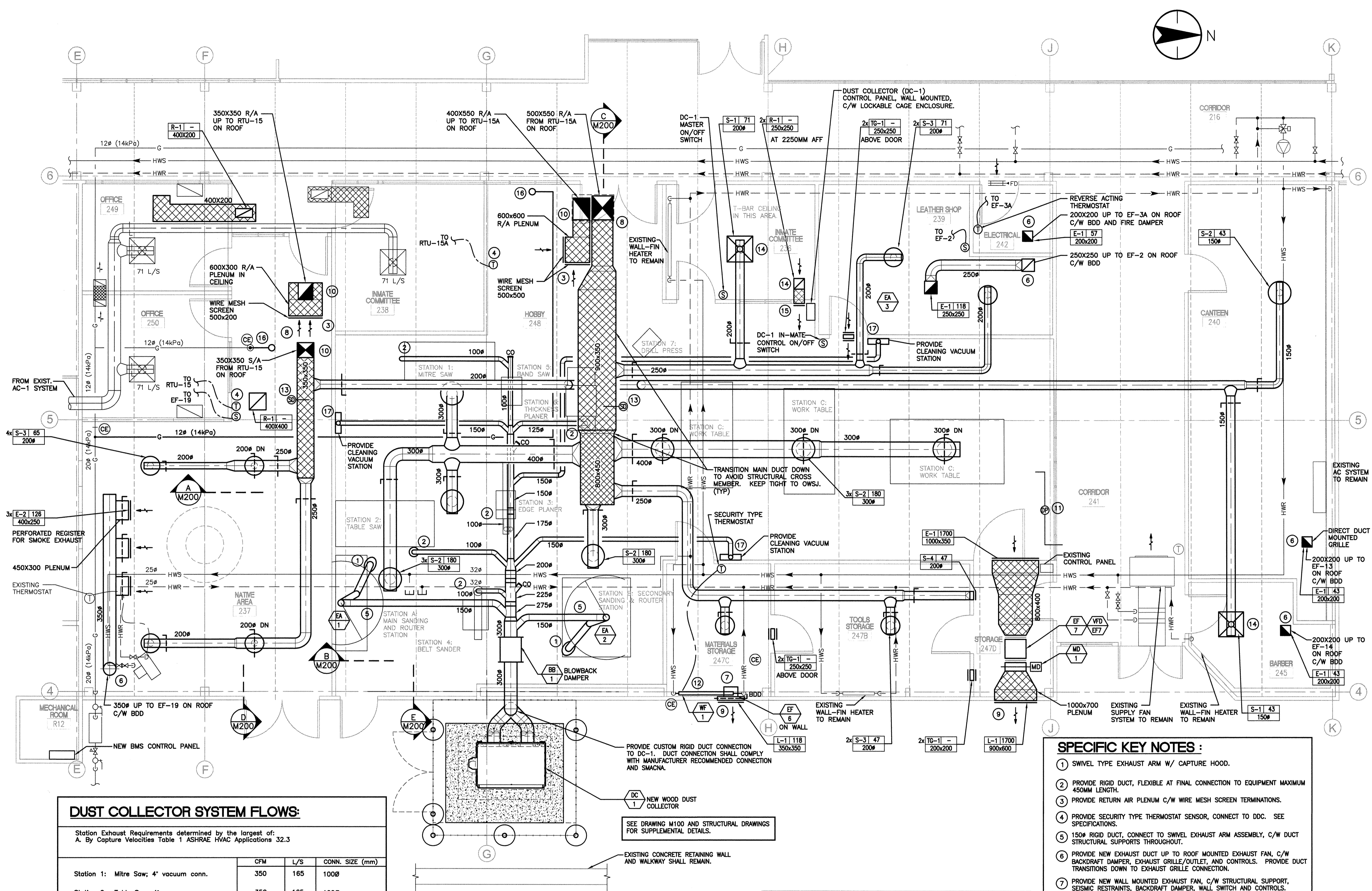
PWGS/C Project Manager/Administrateur de Projets TPS/C
Daryl Sinclair

PWGS/C Regional Manager, Architectural and Engineering Services/
 Gestionnaire régionale, Services d'architecture et de génie, TPS/C
Freetipal Paul

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MECHANICAL FLOOR PLAN
HOBBY SHOP - NEW

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DUST COLLECTOR SYSTEM FLOWS:

Station Exhaust Requirements determined by the largest of:
 A. By Capture Velocities Table 1 ASHRAE HVAC Applications 32.3

	CFM	L/S	CONN. SIZE (mm)
Station 1: Mitre Saw; 4' vacuum conn.	350	165	100Ø
Station 2: Table Saw; 4' vacuum conn.	350	165	100Ø
Station 3: Edge Planer; provide new hopper	350	165	100Ø
Station 4: Belt Sander 4' vacuum conn.	350	165	100Ø
Station 5: Band Saw	-	-	No Connection
Station 6: Thickness Planer; 500x100 Hood	551	260	125Ø
Station 7: Drill Press	-	-	No Connection
Station 8: Lathe	-	-	No Connection
Station A: Main Sanding & Router Work Table (Flex Vac. Conn.)	801	378	150Ø
Station B: Secondary Sanding & Router Table (Flex Vac. Conn.)	801	378	150Ø
Station C: Clean Work Tables	-	-	No Connection
General Cleaning Vacuum Station 1	-	-	150Ø
General Cleaning Vacuum Station 2	-	-	150Ø
General Cleaning Vacuum Station 3	-	-	150Ø
Total:	3553	1676	

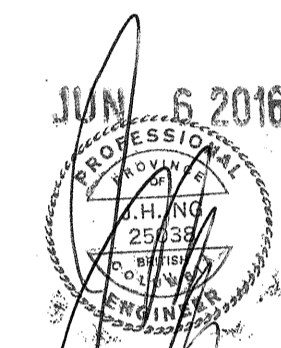
1 FLOOR PLAN HOBBY SHOP - HVAC NEW
 M102 SCALE: 1:50

GENERAL NOTES:

- REFER TO DRAWING M100 AND M101 FOR SUPPLEMENTAL DEMOLITION AND RENOVATION REQUIREMENTS.
- INSTALL HIGH-LEVEL DUCTWORK THROUGH EXISTING OSWJ STRUCTURE. PROVIDE ALL DUCT TRANSITIONS AND OFFSETS AS REQUIRED (TYPICAL).
- EXISTING AC-1 DUCT SYSTEM TO REMAIN.
- EXISTING SUPPLY FAN (SF-247) DUCT SYSTEM TO REMAIN.
- INSTALL DUST EXTRACTION EXHAUST DUCTWORK BELOW S/A DUCT WHERE DUCT CROSSINGS OCCUR (TYPICAL).
- PROVIDE ALL DUCT TRANSITIONS AND OFFSETS AS REQUIRED FOR INSTALLATION AROUND EXISTING STRUCTURE, SERVICES, PIPING, LIGHTING AND ELECTRICAL (TYPICAL).
- ALL METAL DUCTS ASSOCIATED WITH THE DUST-COLLECTION SYSTEM SHALL BE ELECTRICALLY GROUNDED. REFER TO THE ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- PROVIDE SEISMIC RESTRAINTS TO ALL CEILING HUNG AND T-BAR MOUNTED MECHANICAL EQUIPMENT.
- PROVIDE BLAST GATE AT EACH DUST COLLECTOR BRANCH TO EQUIPMENT STATIONS AND TO GENERAL CLEANING VACUUM STATIONS (TYPICAL). SEE DETAIL 4 ON DRAWING M300 (TYPICAL FOR FLOOR SWEEP AND ALL OUTLETS). MOUNT ALL BLAST GATES AT APPROXIMATELY 1500MM AFF.

SPECIFIC KEY NOTES:

- SWIVEL TYPE EXHAUST ARM W/ CAPTURE HOOD.
- PROVIDE RIGID DUCT, FLEXIBLE AT FINAL CONNECTION TO EQUIPMENT MAXIMUM 450MM LENGTH.
- PROVIDE RETURN AIR PLENUM C/W WIRE MESH SCREEN TERMINATIONS.
- PROVIDE SECURITY TYPE THERMOSTAT SENSOR, CONNECT TO DDC. SEE SPECIFICATIONS.
- 150Ø RIGID DUCT, CONNECT TO SWIVEL EXHAUST ARM ASSEMBLY, C/W DUCT STRUCTURAL SUPPORTS THROUGHOUT.
- PROVIDE NEW EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN, C/W BACKDRAFT DAMPER, EXHAUST GRILLE/OUTLET, AND CONTROLS. PROVIDE DUCT TRANSITIONS DOWN TO EXHAUST GRILLE CONNECTION.
- PROVIDE NEW WALL MOUNTED EXHAUST FAN, C/W STRUCTURAL SUPPORT, SEISMIC RESTRAINTS, BACKDRAFT DAMPER, WALL SWITCH AND CONTROLS.
- PROVIDE NEW AIR HANDLING UNIT ON ROOF, C/W ROOF CURB, STRUCTURAL SUPPORT, SEISMIC RESTRAINTS AND CONTROLS. REFER TO INSTALLATION DETAILS AND STRUCTURAL DRAWINGS FOR SUPPLEMENTAL REQUIREMENTS.
- ENLARGE EXISTING WALL PENETRATION FOR NEW LOUVRE OPENING.
- PROVIDE NEW DUCT TRANSITIONS TO RTU DUCT OPENINGS.
- PROVIDE DIFFERENTIAL PRESSURE SENSOR AND CONNECT TO DDC FOR EF-7 DRIVE CONTROL.
- PROVIDE NEW HYDRONIC WALL-FIN HEATER, THERMOSTAT, ACTUATOR, CONTROL VALVE, ISOLATION VALVES, AND COVER.
- PROVIDE DUCT MOUNTED SMOKE DETECTOR AND CONNECT TO EXISTING FIRE ALARM PANEL. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- FIELD ADJUST EXACT POSITION OF DIFFUSER OR GRILLE IN CEILING T-BAR GRID OR CWG. PROVIDE ADDITIONAL DUCTING AND SHEET METAL ACCESSORIES AS NEEDED.
- PROVIDE 250x250 TRANSFER AIR DUCT C/W 25MM ACOUSTIC INSULATION AND TWO RETURN AIR GRILLES (R-1) ON EACH END.
- PROVIDE NEW GAS LINE TO RTU ON ROOF. CONNECT GAS LINE TO EXISTING GAS SERVICE. PROVIDE NEW ROOF PENETRATION.
- PROVIDE CLEANING VACUUM STATION (SEE FLOOR SWEEP DETAIL).
- PROVIDE MOTORIZED DAMPER, INTERLOCK WITH EF-7 OPERATION.
- INSTALL BLOW-BACK DAMPER PER THE MANUFACTURER RECOMMENDATIONS, AND PROVIDE FOR MINIMUM MOUNTING DUCT DISTANCE.



DEMOLITION NOTES:

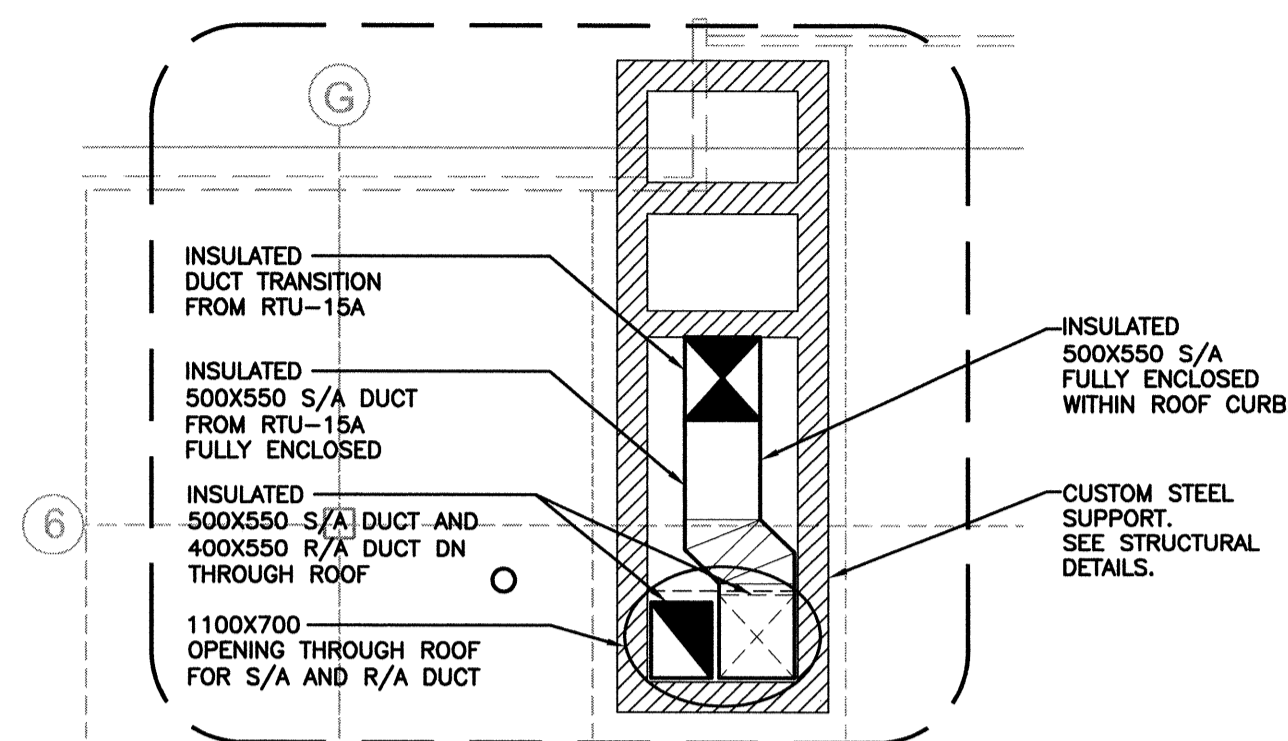
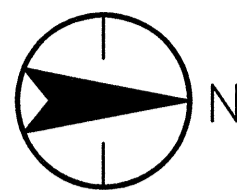
1. ALL REUSABLE MATERIALS SHALL BE PROTECTED FROM DAMAGE.
2. DEMOLITION AND CONSTRUCTION WASTE MANAGEMENT SHALL COMPLY WITH SPECIFICATION SECTIONS 00150 AND 230500.
3. PATCH AND MAKE GOOD ALL DAMAGE CAUSED BY MECHANICAL WORK.
4. PATCH AND MAKE GOOD ALL EXISTING ROOF, WALL, FLOOR PENETRATIONS FOR NEW MECHANICAL WORK.
5. KEEP EXISTING STORM AND SANITARY PIPING.

GENERAL NOTES:

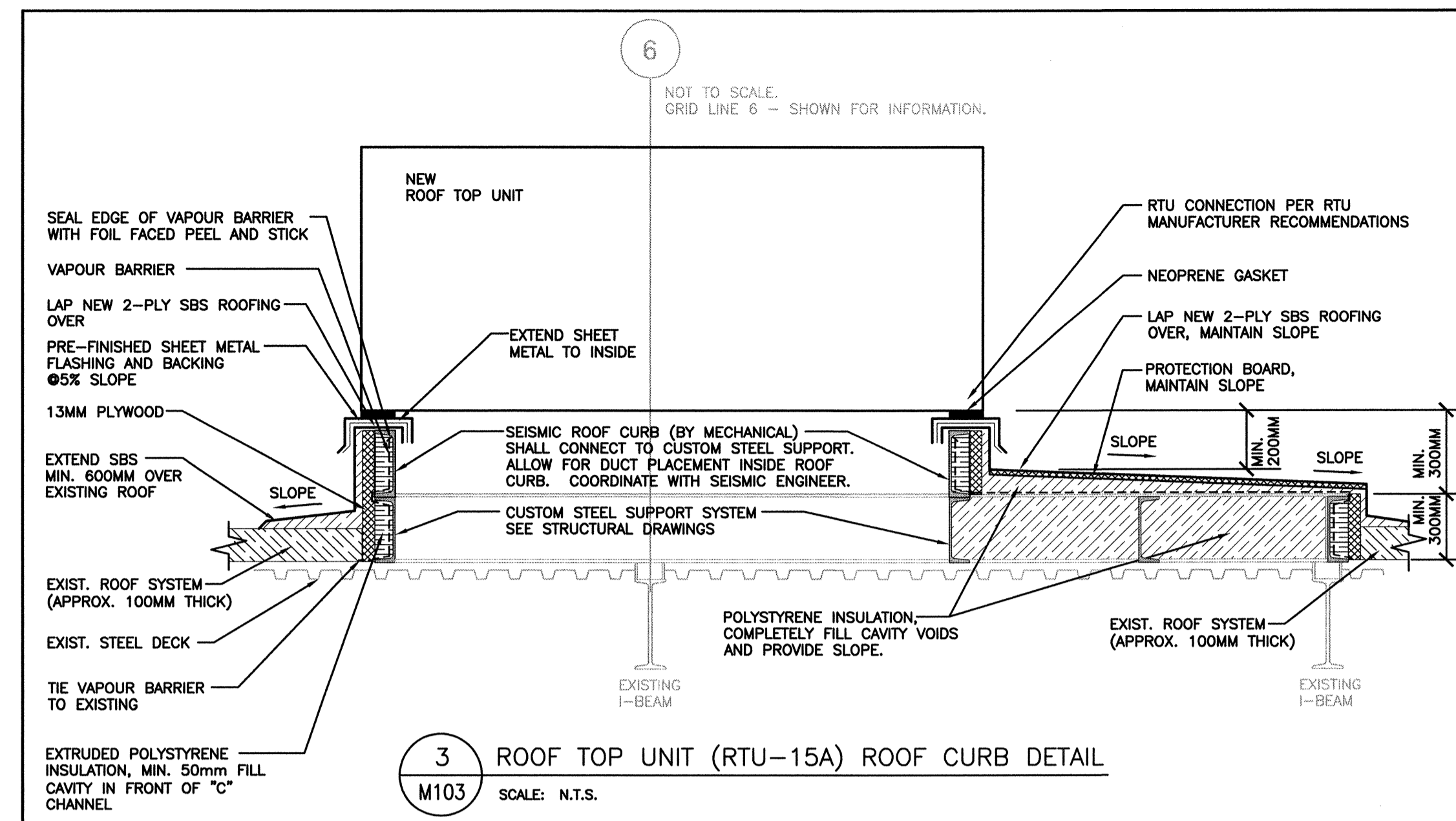
1. REFER TO DRAWING M100 AND M101 FOR SUPPLEMENTAL DEMOLITION AND RENOVATION REQUIREMENTS.
2. PROVIDE NEW ROOFTOP MOUNTED EQUIPMENT ON SEISMIC STRUCTURAL CURB - SEE STRUCTURAL DRAWINGS FOR SUPPLEMENTAL DETAILS AND ACCESSORIES. REFER TO SPECIFICATIONS, EQUIPMENT SCHEDULES, AND INSTALLATION DETAILS FOR SUPPLEMENTAL REQUIREMENTS. AVOID EXISTING ROOF DRAINS.
3. INSTALL DUCTWORK THROUGH EXISTING ROOF STRUCTURE. PROVIDE ALL DUCT TRANSITIONS AND OFFSETS AS REQUIRED.
4. PROVIDE NEW GAS PIPING AND VALVES TO EACH AIR HANDLING UNIT. INSTALL PIPING THROUGH EXISTING ROOF STRUCTURE. PROVIDE ALL PIPE TRANSITIONS AND OFFSETS AS REQUIRED.
5. PROVIDE CONTROL CONDUIT TO EACH AIR HANDLING UNIT AND EXHAUST FAN. CONNECT TO DDC SYSTEM.
6. PROVIDE INSULATION ON ALL NEW DUCTWORK.
7. PROVIDE ACOUSTIC DUCT LINER WITHIN FIRST 3 METERS OF DUCTING FROM THE AIR HANDLING UNIT.

SPECIFIC KEY NOTES :

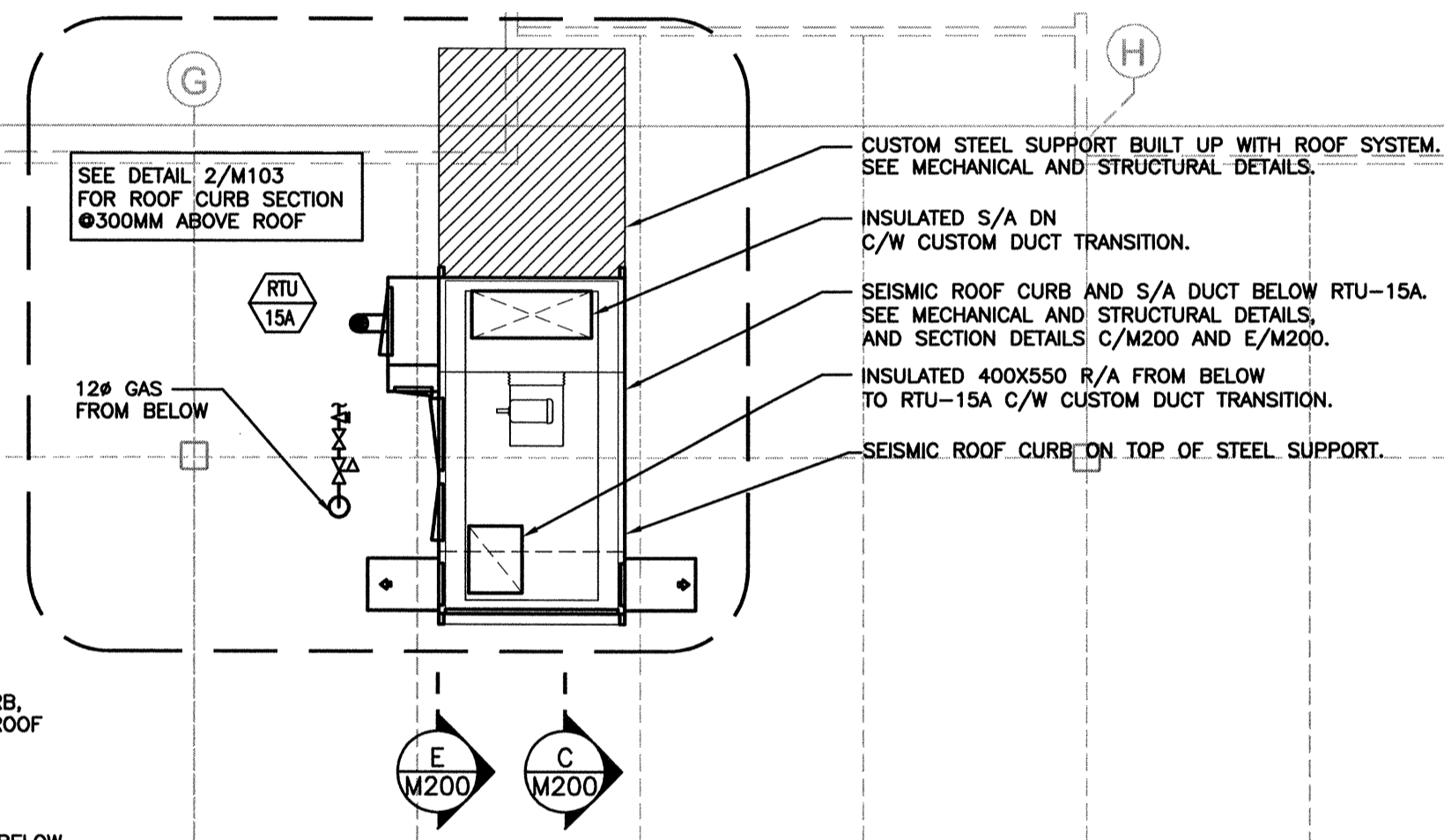
- 1 REMOVE AND REPLACE EXISTING AIR HANDLING UNIT AND ACCESSORIES WITH NEW. REFER TO GENERAL NOTES FOR SUPPLEMENTAL REQUIREMENTS.
- 2 PROVIDE NEW ROOF MOUNTED AIR HANDLING UNIT C/W CONTROLS. REFER TO GENERAL NOTES FOR SUPPLEMENTAL REQUIREMENTS.
- 3 REMOVE AND REPLACE EXISTING FAN AND ACCESSORIES WITH NEW, C/W BACKDRAFT DAMPER AND CONTROLS. REFER TO GENERAL NOTES FOR SUPPLEMENTAL REQUIREMENTS.
- 4 PROVIDE NEW ROOF MOUNTED EXHAUST FAN, C/W BACKDRAFT DAMPER AND CONTROLS. REFER TO GENERAL NOTES FOR SUPPLEMENTAL REQUIREMENTS.
- 5 PROVIDE CUSTOM DUCT TRANSITIONS FROM NEW AIR HANDLING UNIT TO THE EXISTING DUCT MAINS.



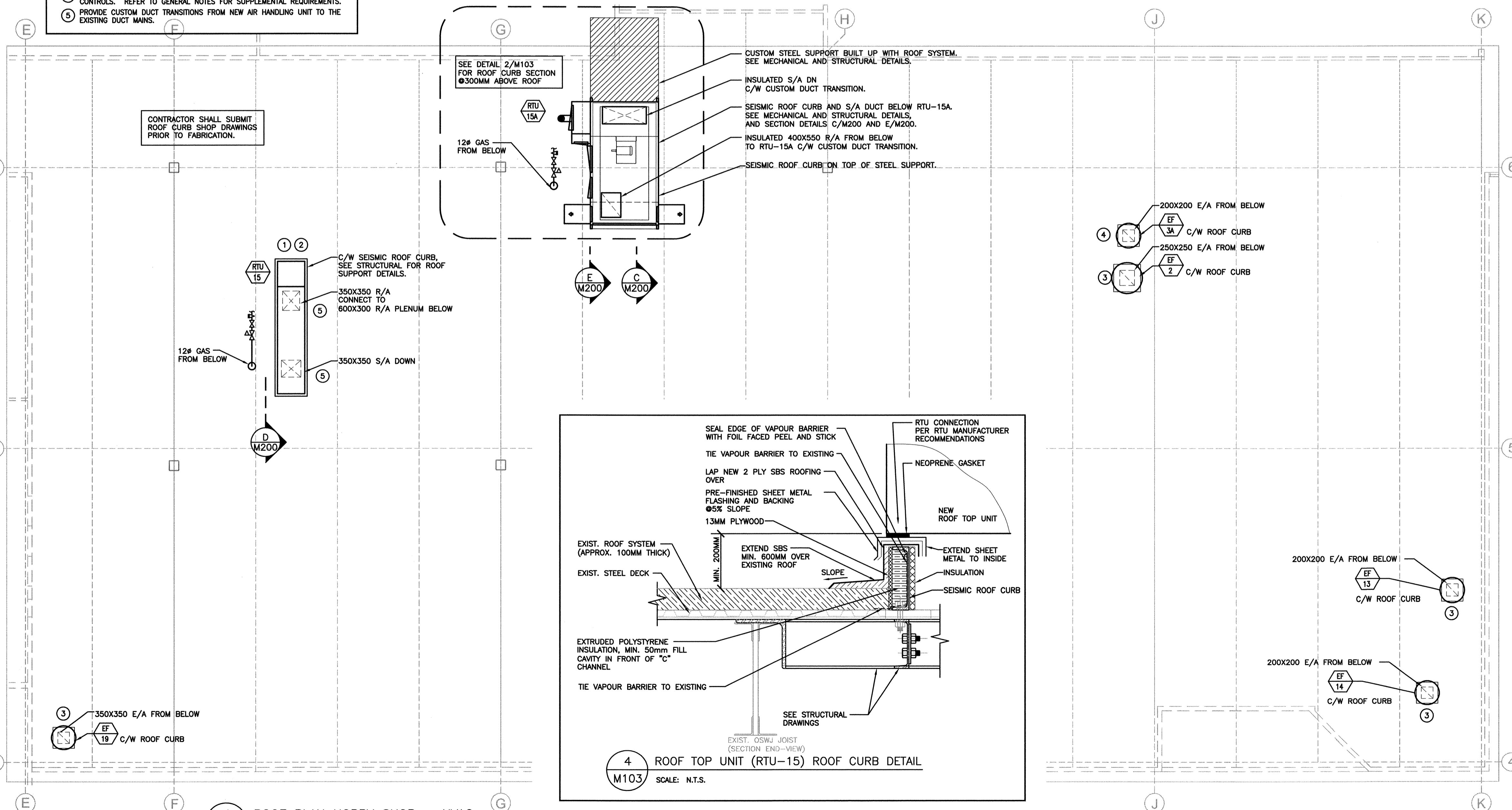
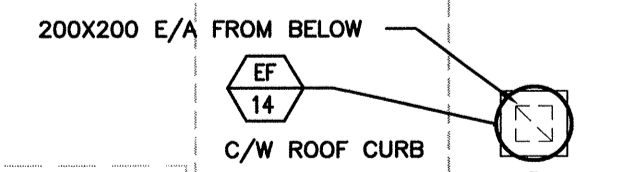
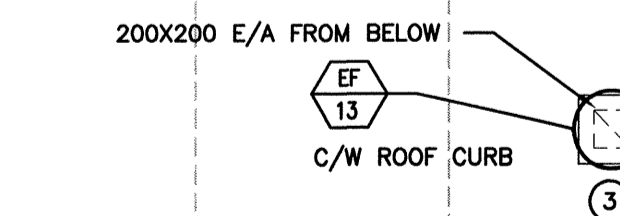
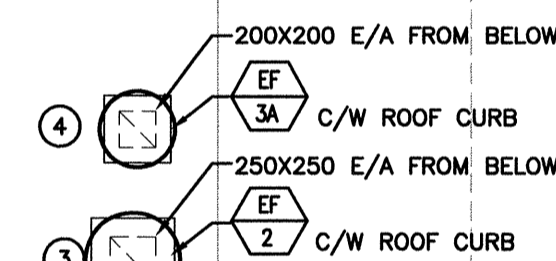
2 RTU-15A - ROOF CURB SECTION AT 300MM ABOVE ROOF
 M103 SCALE: 1:50



3 ROOF TOP UNIT (RTU-15A) ROOF CURB DETAIL
 M103 SCALE: N.T.S.

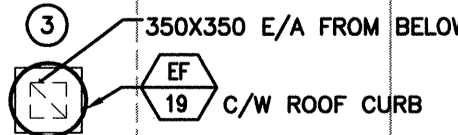
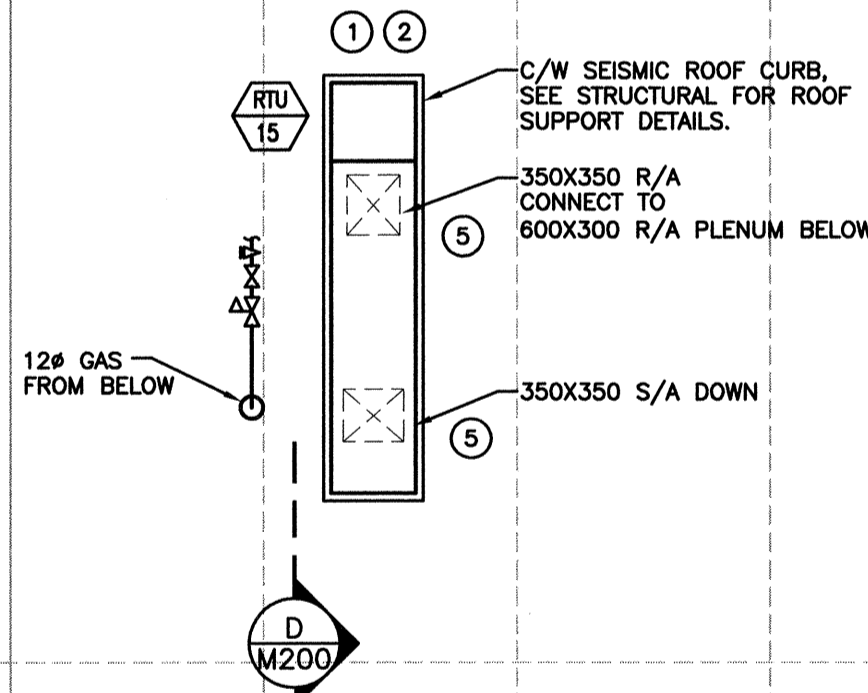


4 ROOF TOP UNIT (RTU-15) ROOF CURB DETAIL
 M103 SCALE: N.T.S.



1 ROOF PLAN HOBBY SHOP - HVAC
 M103 SCALE: 1:50

CONTRACTOR SHALL SUBMIT ROOF CURB SHOP DRAWINGS PRIOR TO FABRICATION.



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CORRECTIONAL SERVICE CANADA

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HOBBY SHOP DUST EXTRACTION AND HVAC UPGRADE

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Designed by/Concept par
JNG

Drawn by/Dessine par
LB

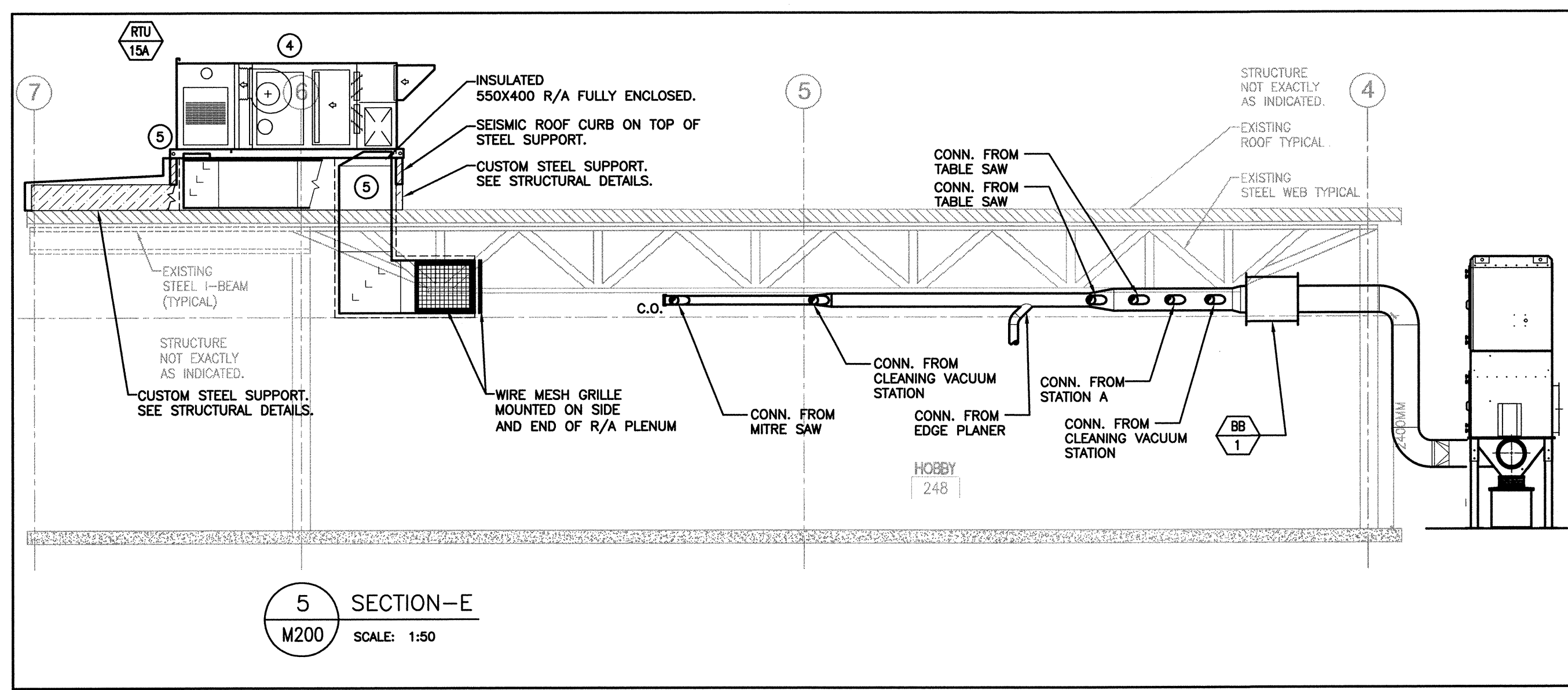
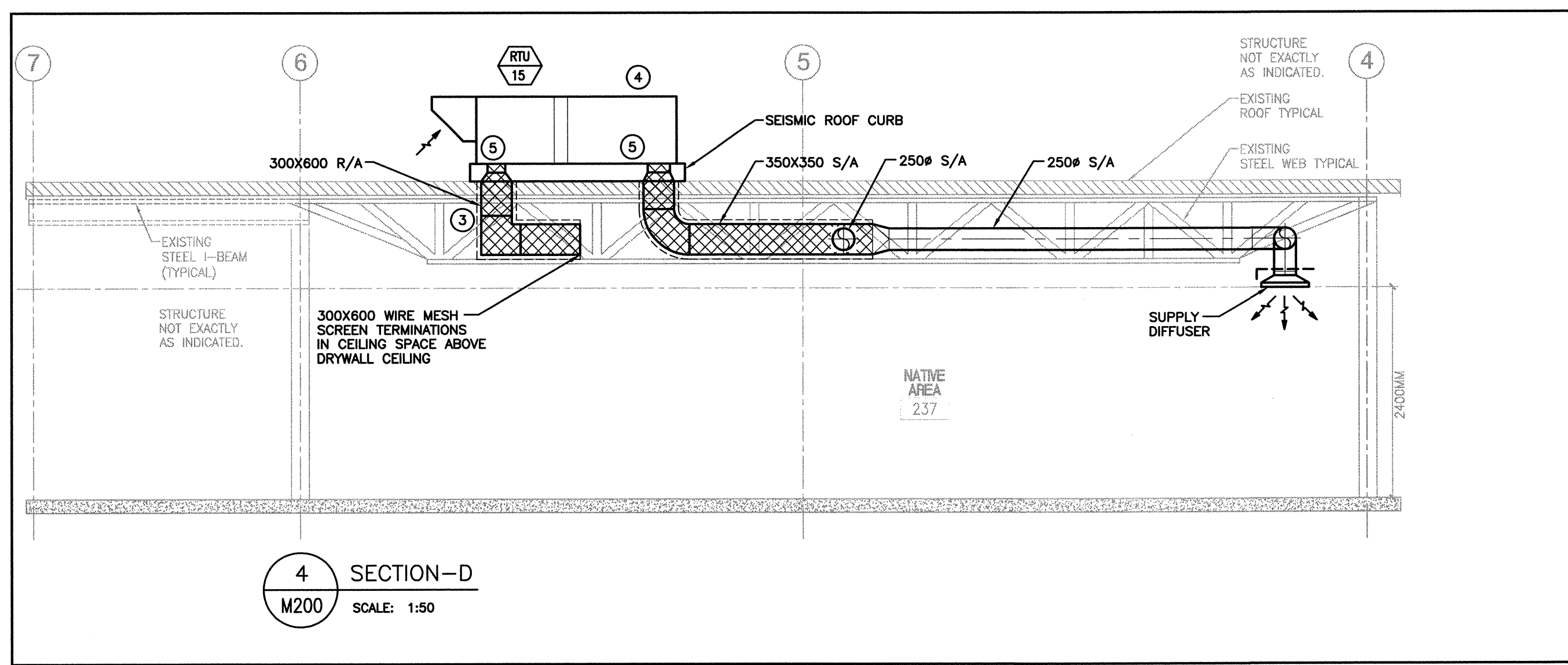
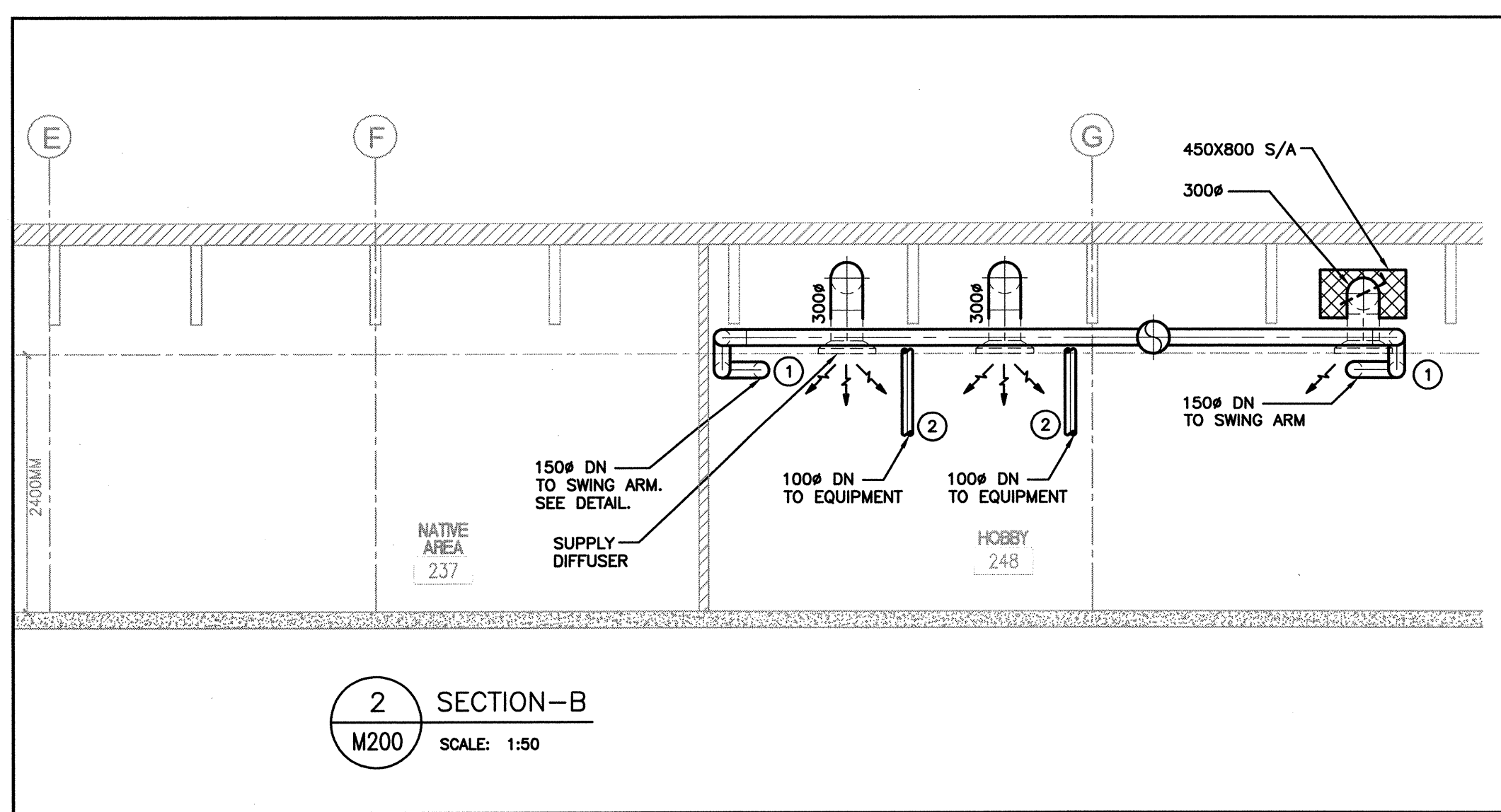
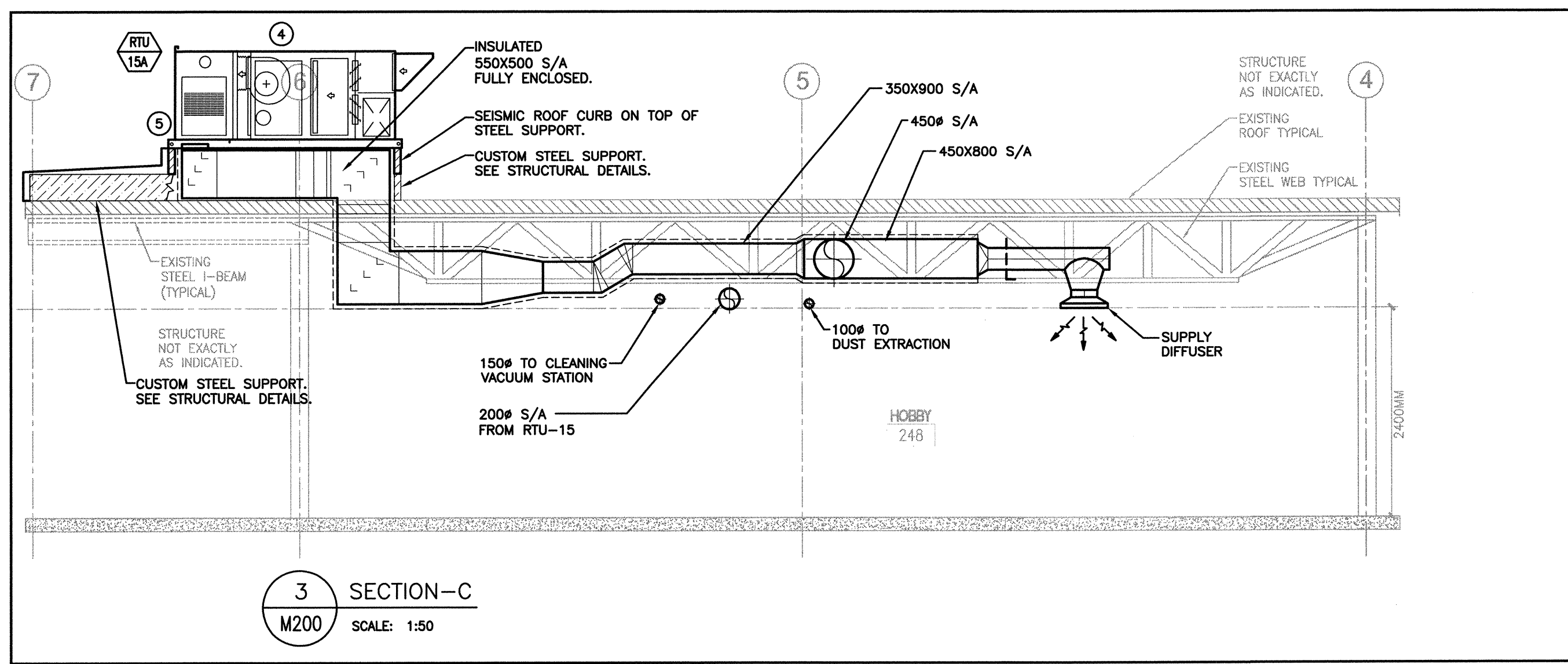
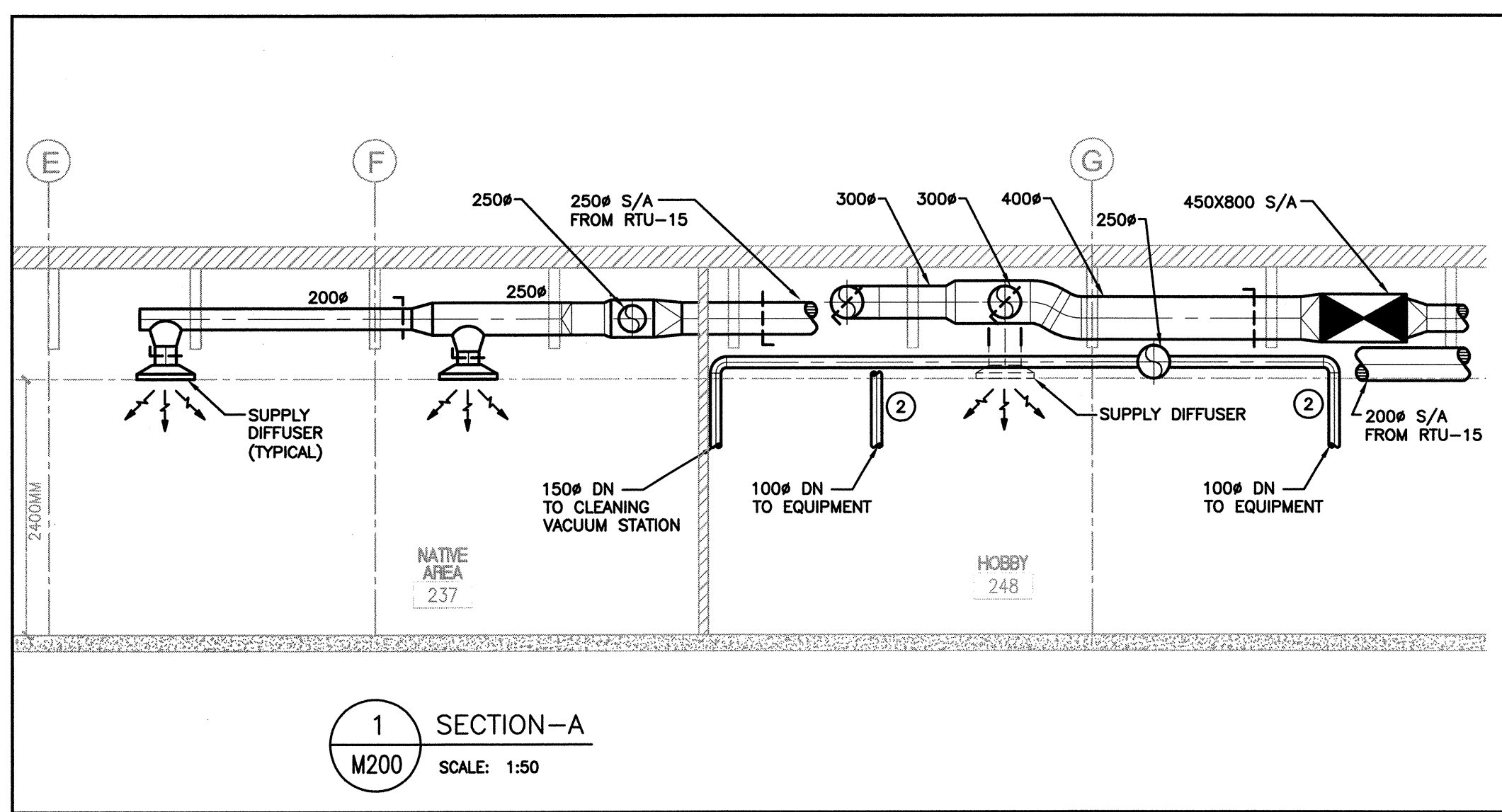
PWGS/C Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

PWGS/C Regional Manager, Architectural and Engineering Services/
 Gestionnaire régionale, Services d'architectural et de génie, TPSGC
Preetpal Paul

Drawing title/Titre du dessin

MECHANICAL ROOF PLAN HOBBY SHOP - NEW

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R.076034.001	M103	1
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- GENERAL NOTES:**
- REFER TO DRAWING M101 FOR DEMOLITION WORK.
 - INSTALL HIGH-LEVEL DUCTWORK THROUGH EXISTING OSWJ STRUCTURE. PROVIDE ALL DUCT TRANSITIONS AND OFFSETS AS REQUIRED (TYPICAL). EXACT POSITIONS OF STRUCTURAL JOISTS TO BE FIELD VERIFIED.
 - INSTALL DUST EXTRACTION EXHAUST DUCTWORK BELOW S/A DUCT WHERE DUCT CROSSINGS OCCUR (TYPICAL).
 - PROVIDE ALL DUCT TRANSITIONS AND OFFSETS AS REQUIRED FOR INSTALLATION AROUND EXISTING STRUCTURE, SERVICES, PIPING, SPRINKLER LINES, LIGHTING AND ELECTRICAL (TYPICAL).
 - PROVIDE SEISMIC RESTRAINTS TO ALL CEILING HUNG MECHANICAL EQUIPMENT.
 - PROVIDE TURNING VANES AT ALL RECTANGULAR DUCT ELBOWS

- SPECIFIC KEY NOTES :**
- SWIVEL TYPE EXHAUST ARM W/ CAPTURE HOOD. SEE DETAIL ON M400.
 - 100# RIGID DUCT, 100# FLEXIBLE AT FINAL CONNECTION TO EQUIPMENT MAXIMUM 450MM LENGTH.
 - PROVIDE RETURN AIR PLENUM C/W WIRE MESH SCREEN TERMINATIONS.
 - PROVIDE NEW AIR HANDLING UNIT ON ROOF, C/W ROOF CURB, STRUCTURAL SUPPORT, SEISMIC RESTRAINTS AND CONTROLS.
 - PROVIDE CUSTOM DUCT TRANSITIONS TO AIR HANDLING UNIT DUCT OPENINGS C/W FLEX CONNECTIONS (TYPICAL).

JUN 6 2016
PROFESSIONAL ENGINEER
MECHANICAL
DARYL SINCLAIR

Revision/Revision	Description/Description	Date/Date
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MISSION, BC**

**HOBBY SHOP
DUST EXTRACTION
AND HVAC UPGRADE**

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PWGSC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

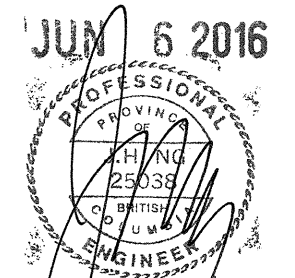
PWGSC Regional Manager, Architectural and Engineering Services/
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Preetpal Paul

Drawing title/Titre du dessin

MECHANICAL HVAC SECTIONS

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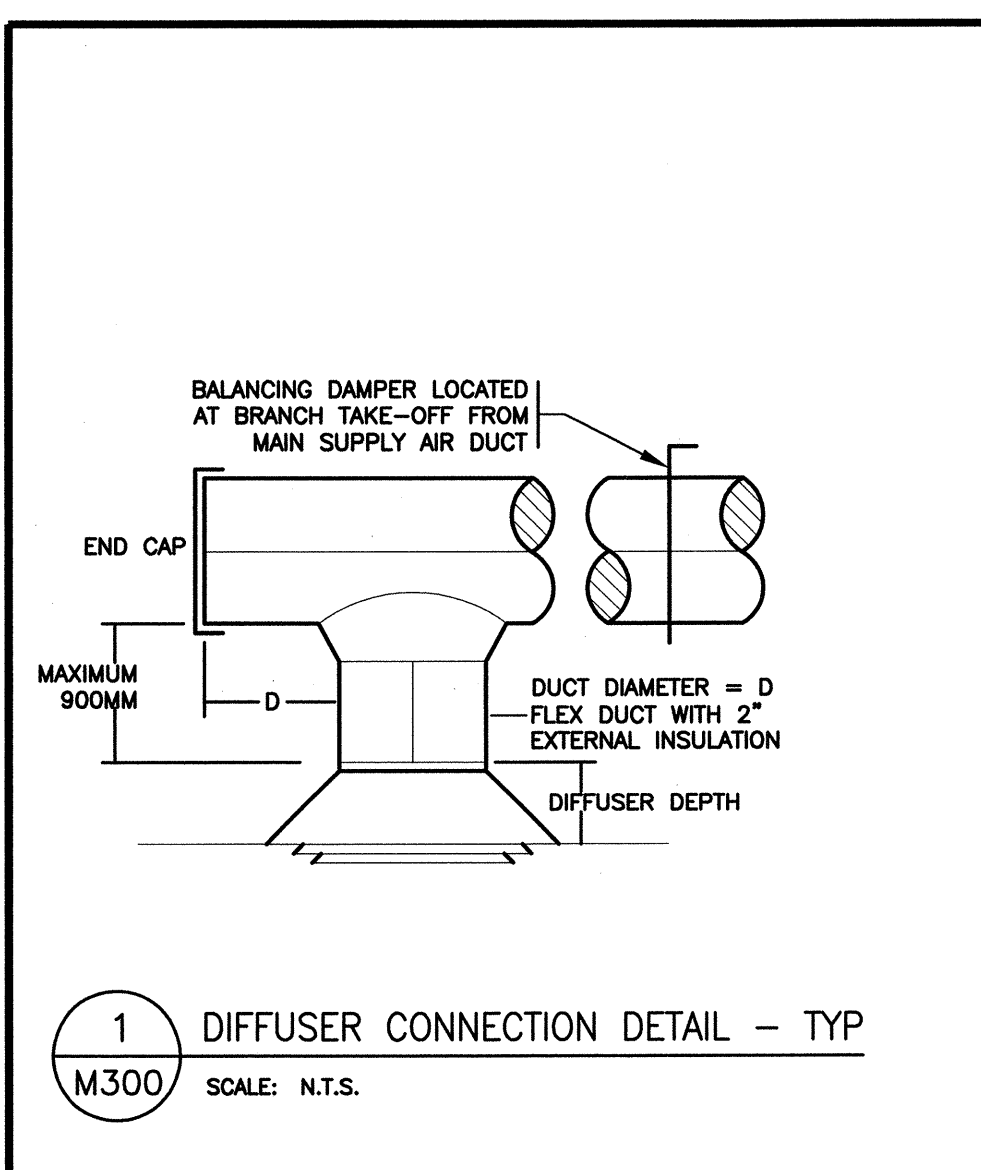
PWSSC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

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Gestionnaire régionale, Services d'architectural et de génie, TPSGC
Preetipal Paul

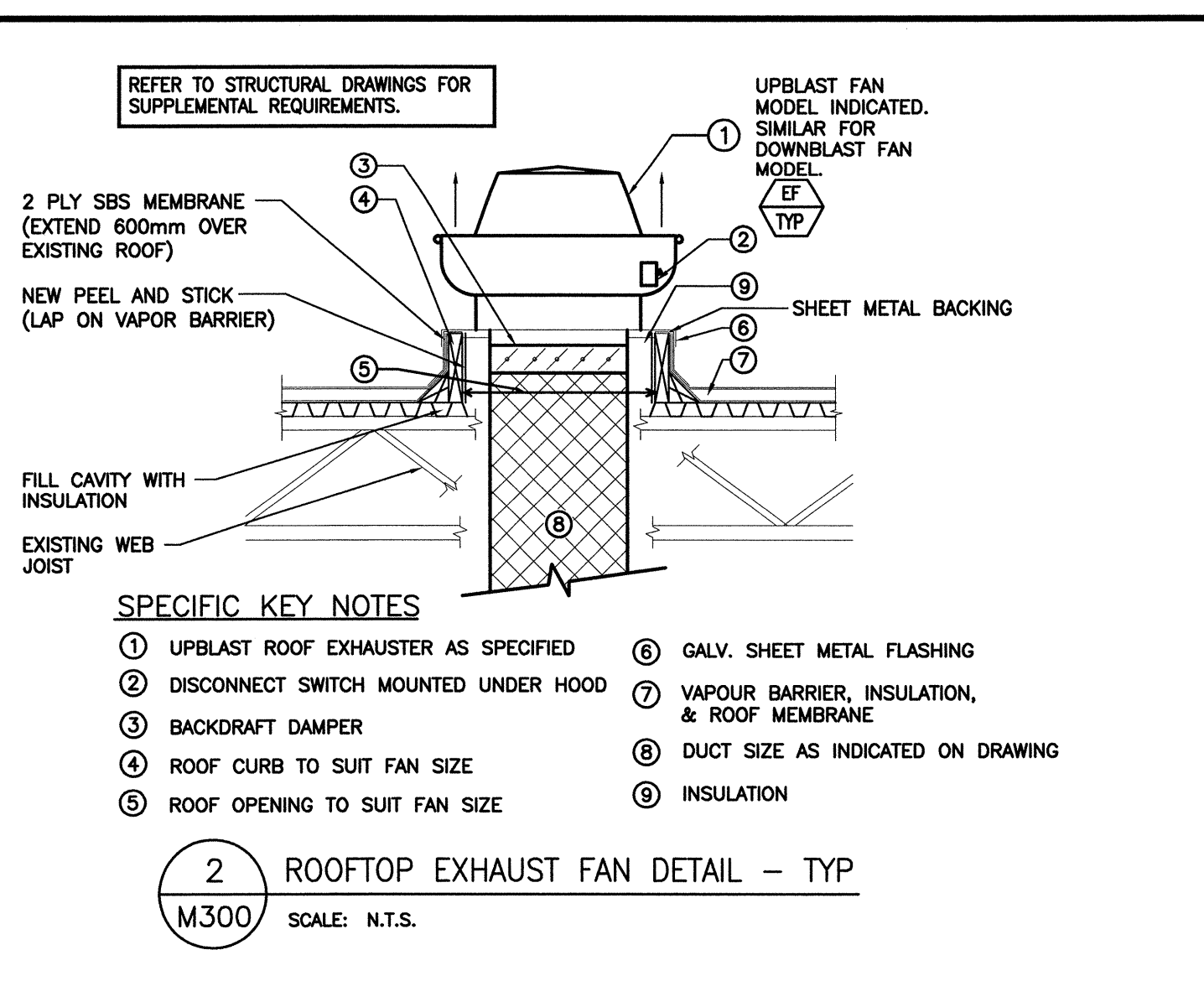
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MECHANICAL DETAILS

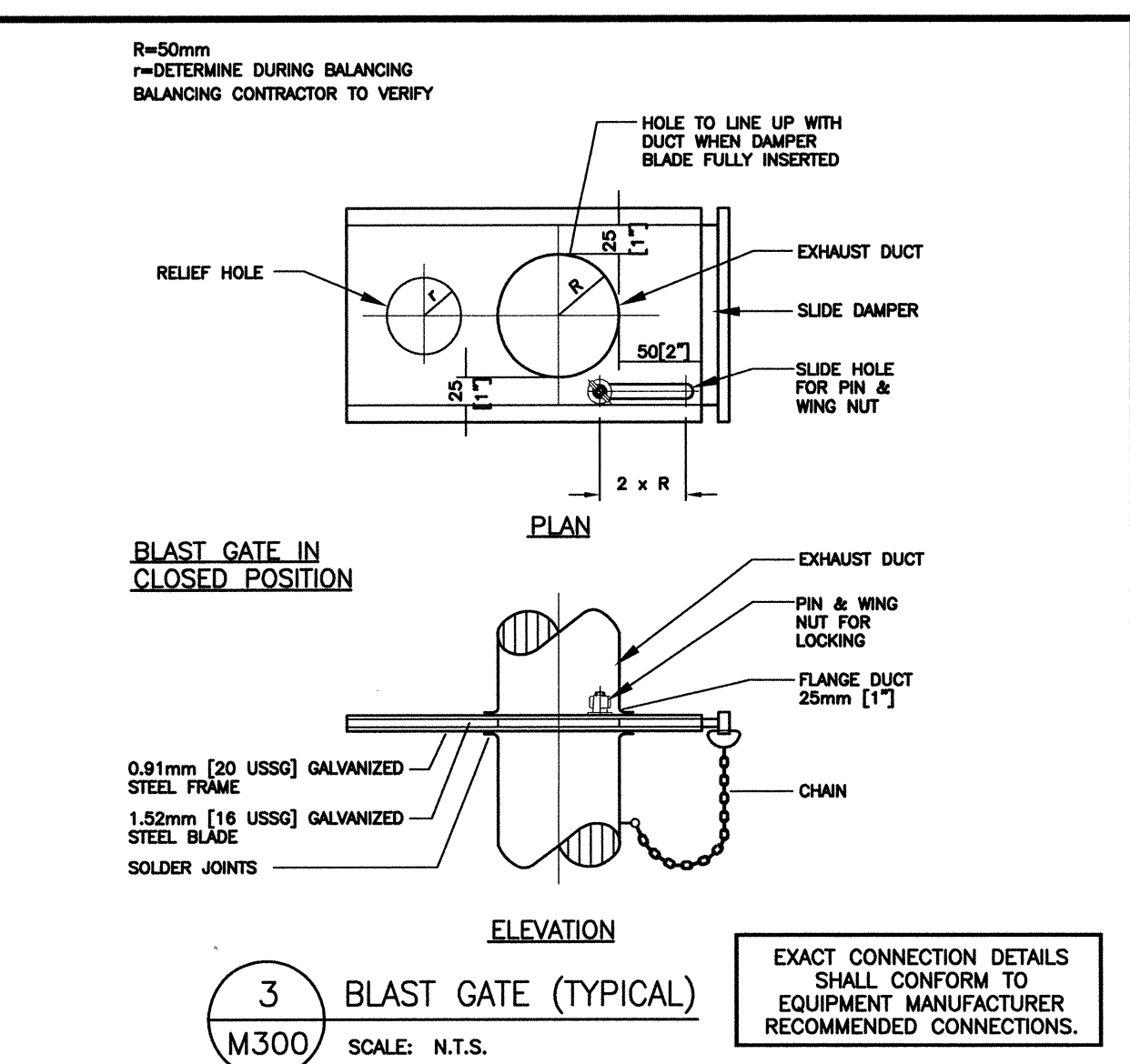
Project No./No. du projet	Sheet/Feuille	Revision no./ Lo. Révision no.
R.076034.001	M300	1



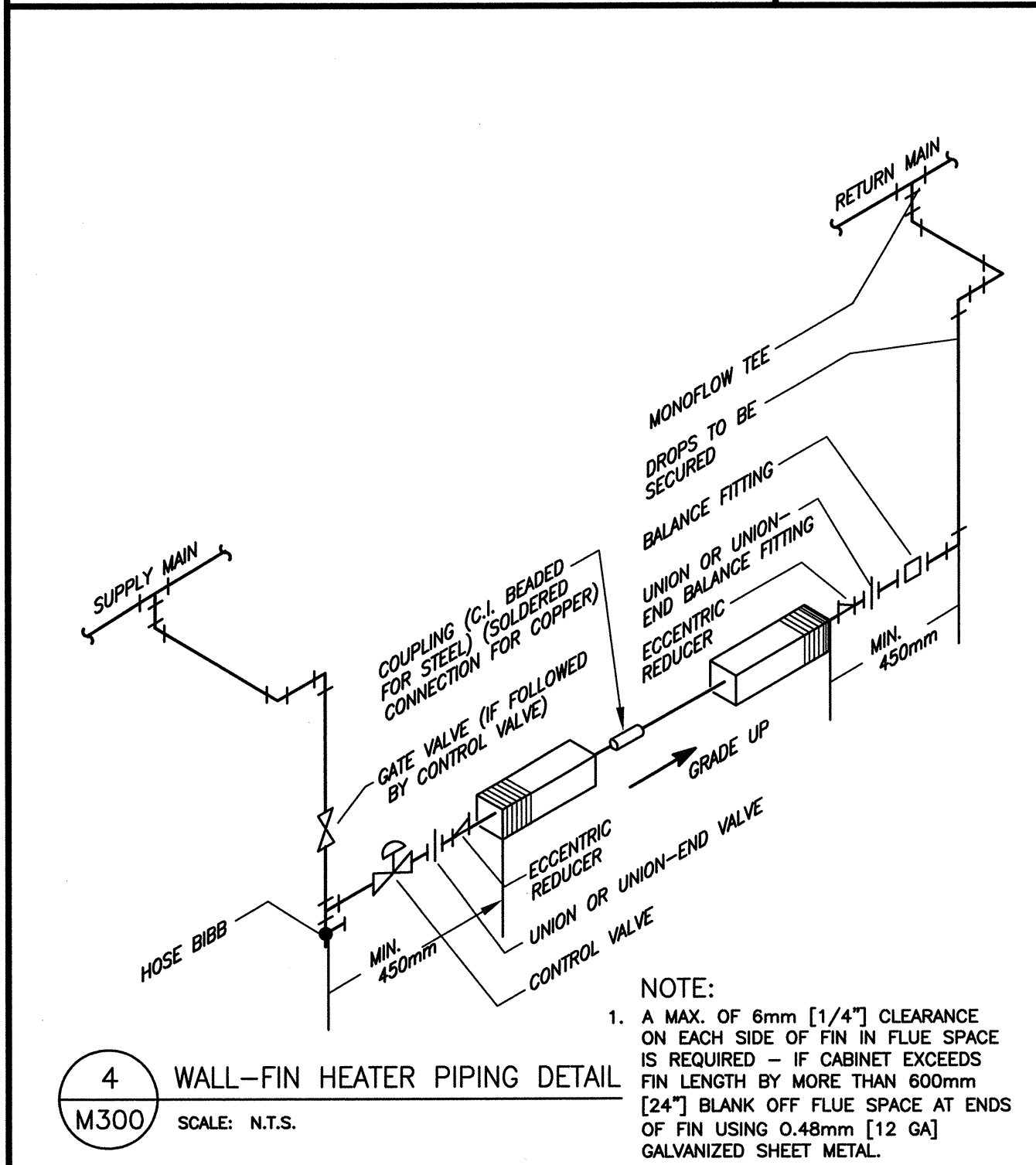
1 DIFFUSER CONNECTION DETAIL - TYP
M300 SCALE: N.T.S.



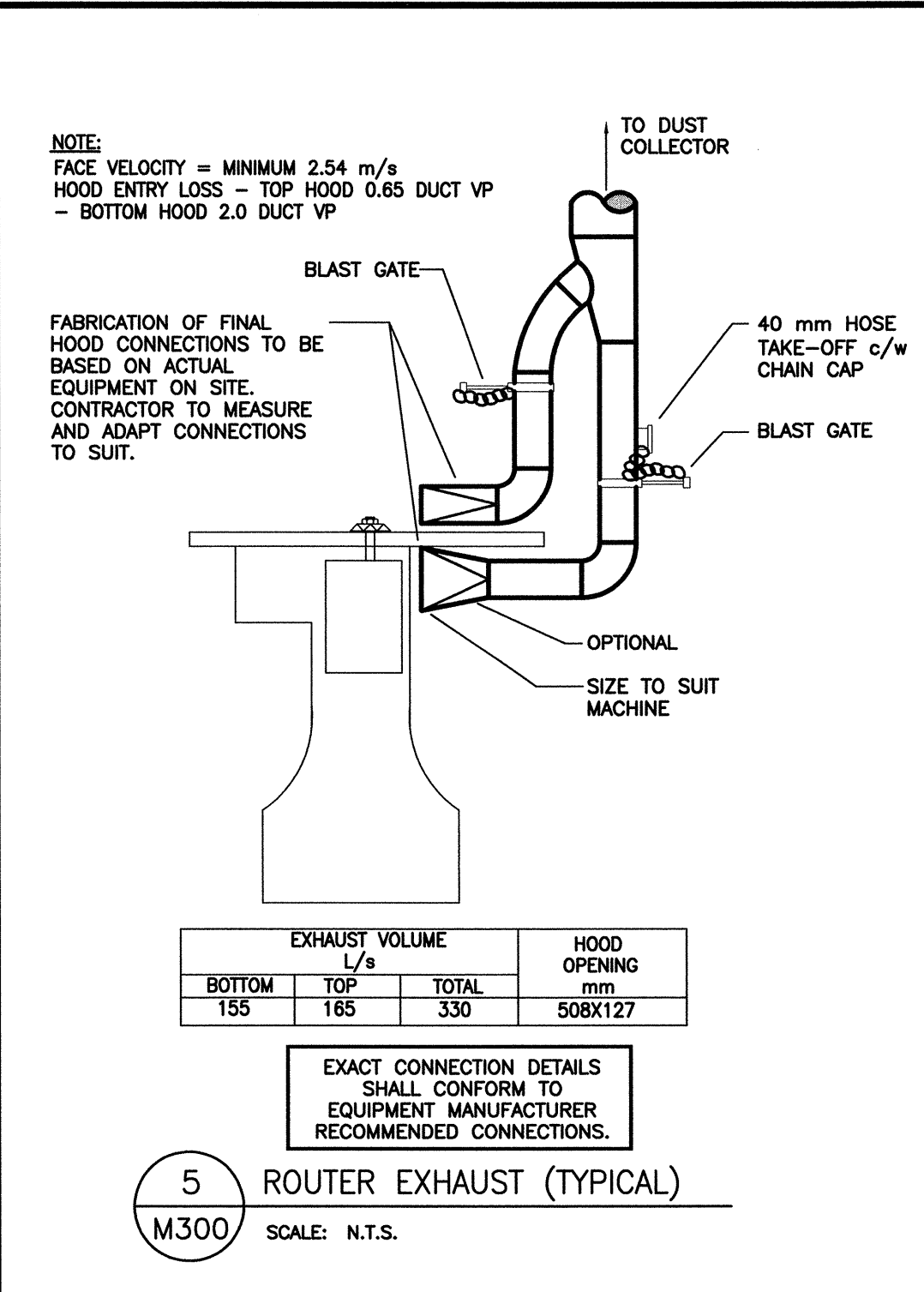
2 ROOFTOP EXHAUST FAN DETAIL - TYP
M300 SCALE: N.T.S.



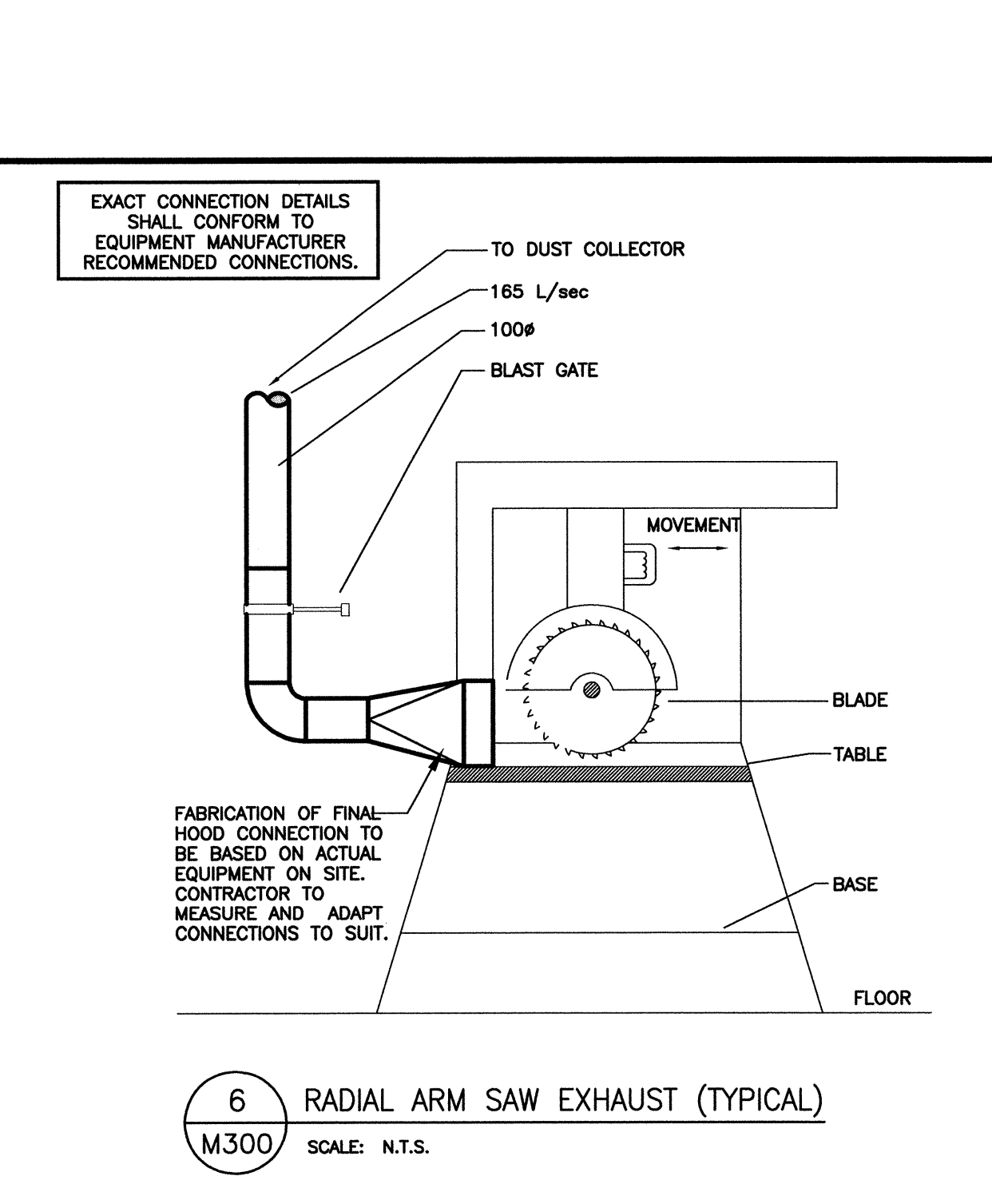
3 BLAST GATE (TYPICAL)
M300 SCALE: N.T.S.



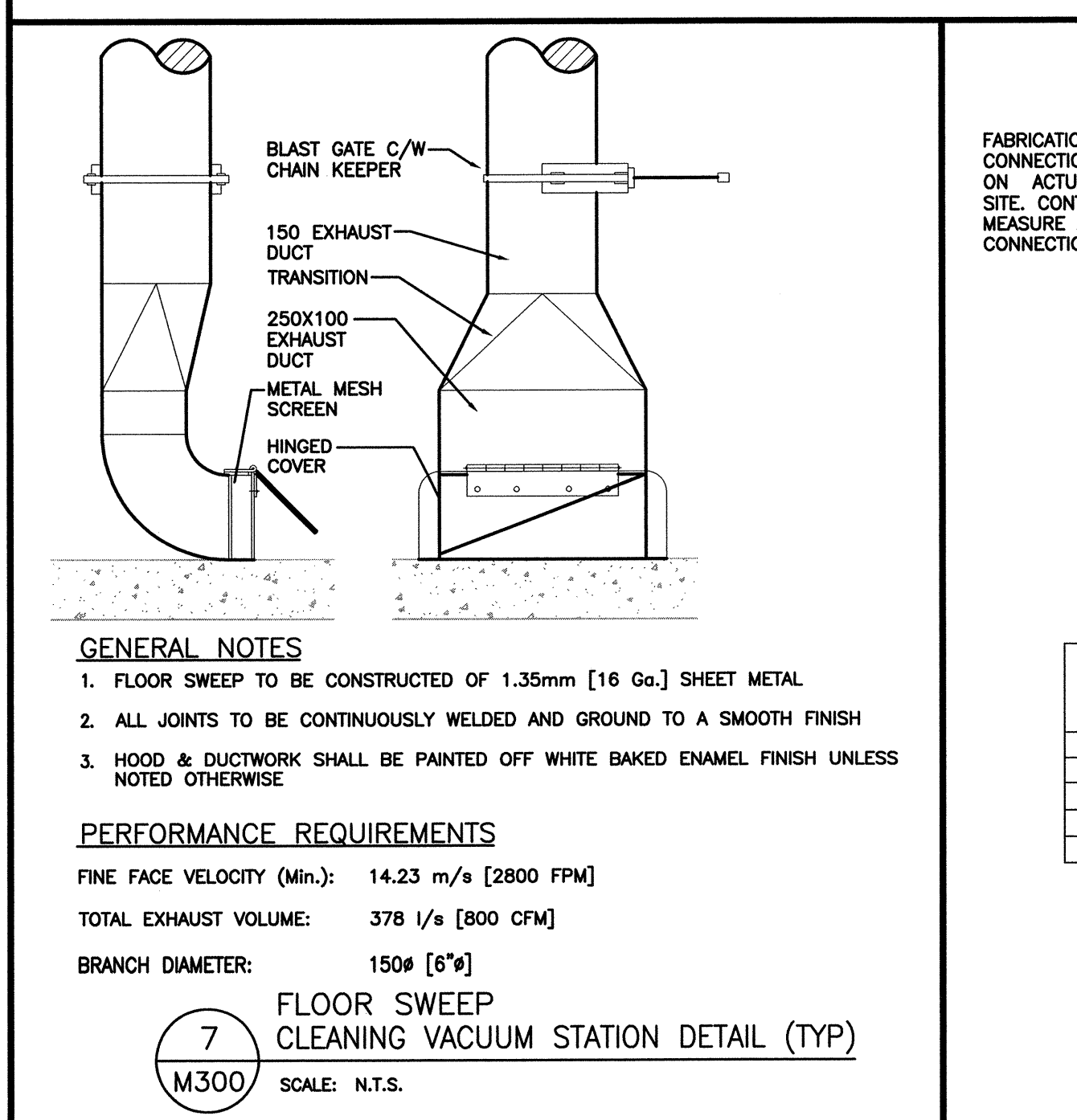
4 WALL-FIN HEATER PIPING DETAIL
M300 SCALE: N.T.S.



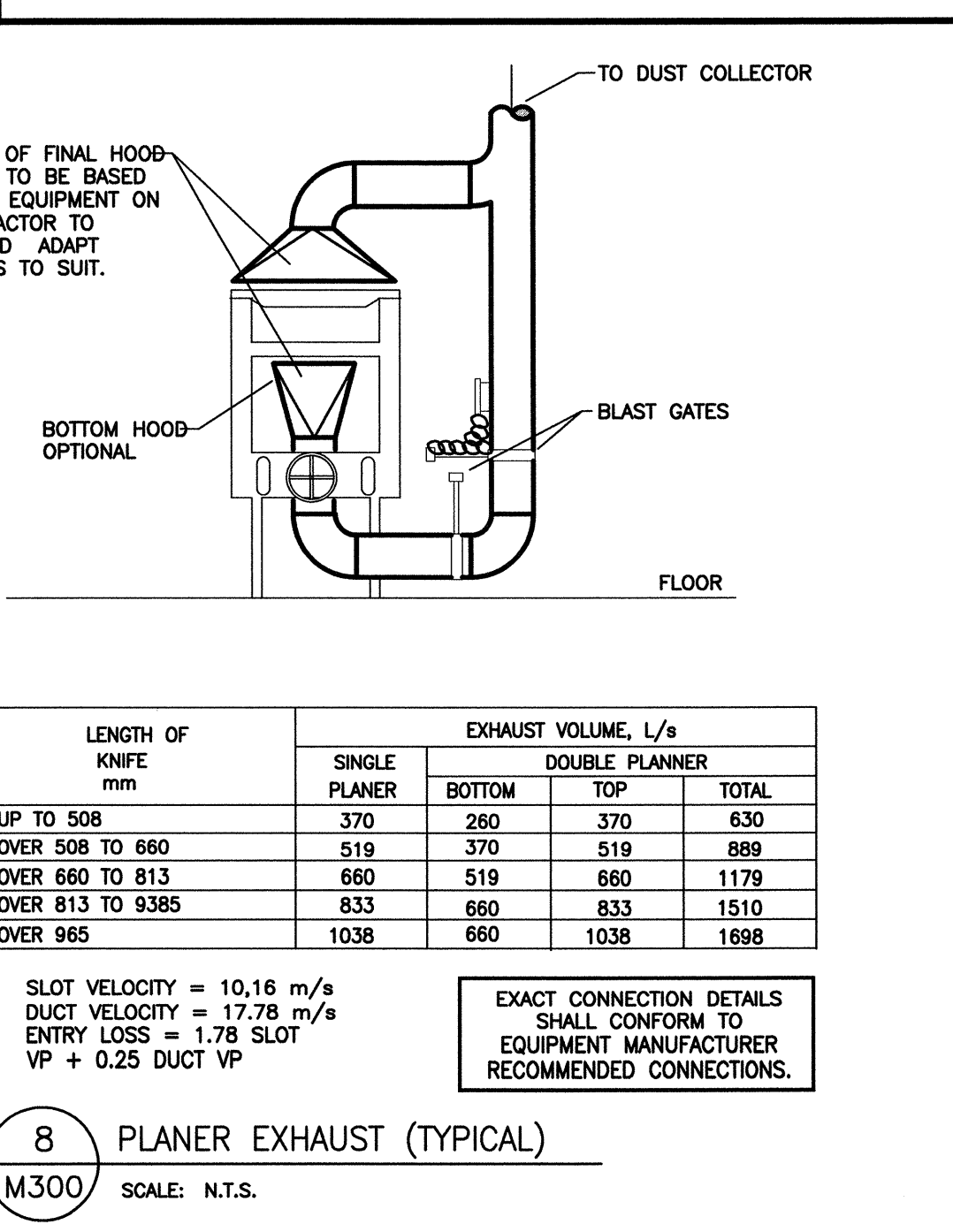
5 ROUTER EXHAUST (TYPICAL)
M300 SCALE: N.T.S.



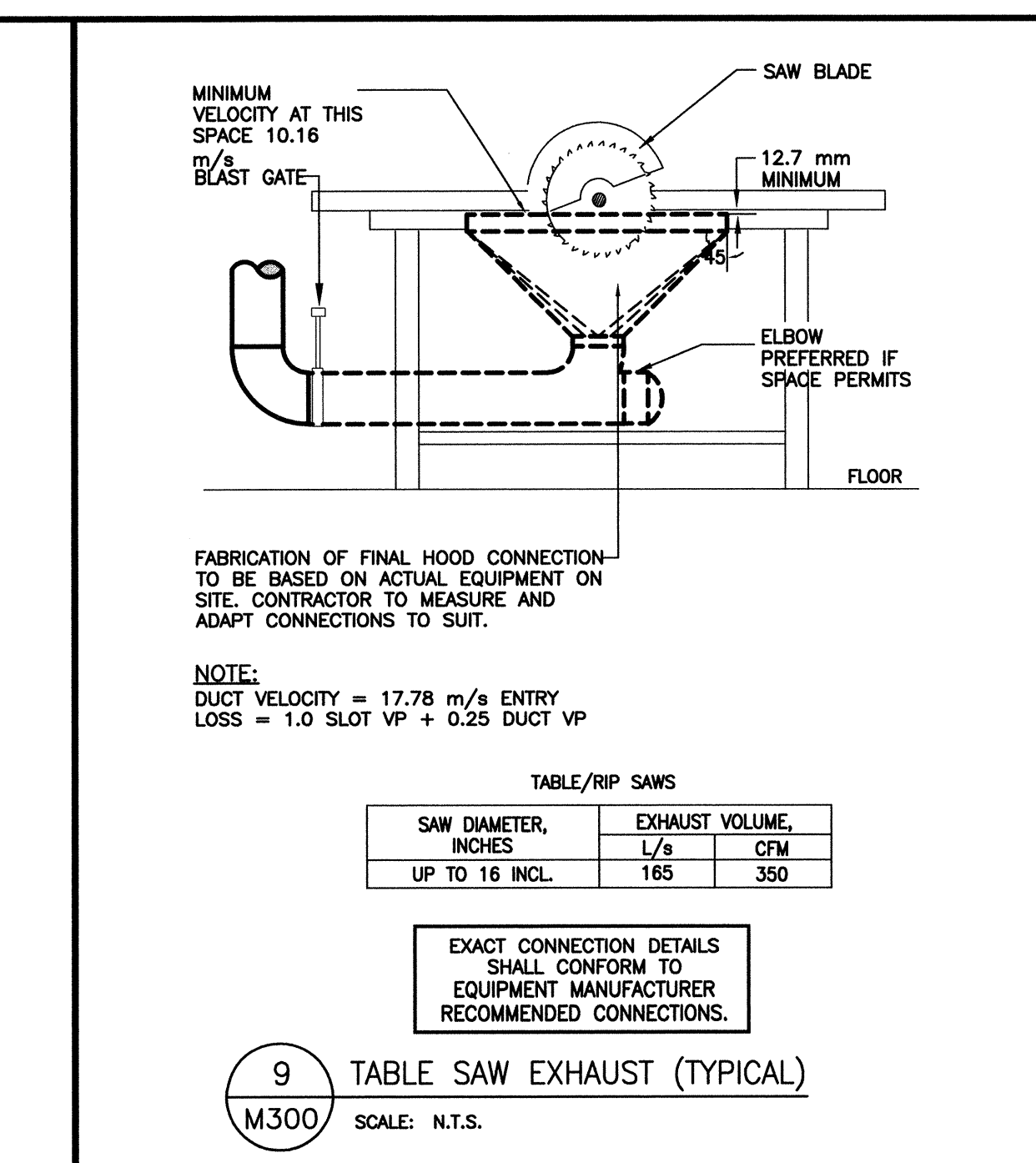
6 RADIAL ARM SAW EXHAUST (TYPICAL)
M300 SCALE: N.T.S.



7 FLOOR SWEEP CLEANING VACUUM STATION DETAIL (TYP)
M300 SCALE: N.T.S.

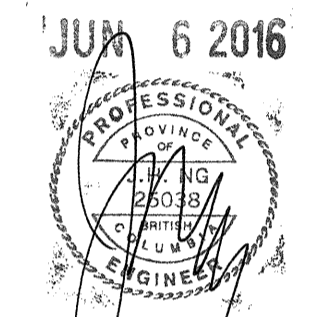


8 PLANER EXHAUST (TYPICAL)
M300 SCALE: N.T.S.



9 TABLE SAW EXHAUST (TYPICAL)
M300 SCALE: N.T.S.





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CORRECTIONAL SERVICE CANADA

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MISSION, BC**

**HOBBY SHOP
DUST EXTRACTION
AND HVAC UPGRADE**

Consultant Signature Box Only

Designed by/Concept par
JNG

Drawn by/Dessiné par
LB

PWGSC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

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Gestionnaire régionale, Services d'architecture et de génie, TPSGC
Preetipal Paul

Drawing Title/Titre du dessin

**MECHANICAL EQUIPMENT
SCHEDULES**

Project No./No. du projet R.076034.001	Sheet/Feuille M400	Revision no./ La Révision no. 1
		8 OF 13

UNIT TAG	SERVICE	TYPE	LOCATION	SUPPLY FAN AIR FLOW L/S (CFM)	SUPPLY FAN EXTERNAL S.P. MAX Pa (i.w.g.)	FAN MOTOR HP	GAS HEAT OUTPUT (MBH)	BURNER EFFIC. %	UNIT ELECTRICAL VOLT/PH/HZ	MIN. OA L/S (CFM)	WEIGHT KG (LBS)	BASIS OF DESIGN		NOTES	ACCEPTABLE MATERIALS
												MAKE	MODEL		
RTU-15A	HOBBY SHOP	CONSTANT VOLUME FAN, INDIRECT GAS HEAT	ROOF ABOVE HOBBY SHOP	1,614 (3,422)	250 (1.0)	3	240	80%	575/3/60	242 (513)	1021 (2250)	ENGINEERED AIR	DJ540-300-12/12	1 TO 11	TRANE, LENNOX
RTU-15	NATIVE AREA, CANTEN, BARBER SHOP	CONSTANT VOLUME FAN, INDIRECT GAS HEAT	ROOF ABOVE NATIVE AREA	346 (734)	200 (0.75)	1	65	80%	575/3/60	69 (146)	250 (550)	ENGINEERED AIR	RT65-10/8	1 TO 11	TRANE, LENNOX

NOTES:
1. REFER TO MECHANICAL SPECIFICATIONS FOR SUPPLEMENTAL REQUIREMENTS.
2. UNITS SHALL BE ULC OR ETL LISTED.
3. PROVIDE MINIMUM MERV-8 FILTERS.
4. ALL UNIT ACCESS DOORS TO BE HINGED.
5. PROVIDE WITH ECONOMIZER DAMPERS.
6. PROVIDE MODULATING GAS VALVE.
7. PROVIDE SINGLE POINT POWER CONNECTION, AND LOCAL DISCONNECT.
8. MODULATING DISCHARGE AIR CONTROLLER C/W AMBIENT RESET & NIGHT SETBACK.
9. HIGH EFFICIENCY TEFC MOTOR.
10. PERFORATED LINER.
11. C/W SEISMIC ROOF CURB, 300MM HIGH.

UNIT TAG	LOCATION	TYPE	MAKE	HEAT CAPACITY	DELTA-T	NOTES	ACCEPTABLE MATERIALS

NOTES:
1. LENGTH: 1800MM. CONTRACTOR TO VERIFY LENGTH ON SITE PRIOR TO ORDERING.
2. C/W PAINTED COVER, MATCH COLOUR TO EXISTING.

NEW UNIT # (EXIST. TAG)	SERVICE	TYPE	AIR FLOW L/S (CFM)	STATIC PRESSURE Pa (in.wg)	ELECTRICAL (V/PH/HZ)	BLOWER MOTOR (HP)	BASIS OF DESIGN		NOTES	ACCEPTABLE MATERIALS
							MAKE	MODEL		
EF-19	NATIVE AREA	ROOF UPBLAST	378 (801)	125 (0.5)	115/1/60	1/2	GREENHECK	CJUE-101-VG	1,2,5,6,7	PENNBARRY, COOK
EF-2	LEATHER SHOP	ROOF MOUNTED	118 (250)	125 (0.5)	115/1/60	1	GREENHECK	G-070-D	1,4,5,6	PENNBARRY, COOK
EF-3A	ELECTRICAL ROOM	ROOF DOWNBLAST	57 (121)	63 (0.25)	115/1/60	1/4	GREENHECK	G-060-D	1,3,5,6	PENNBARRY, COOK
EF-13	CANTEN ROOM	ROOF DOWNBLAST	43 (91)	63 (0.25)	115/1/60	1/4	GREENHECK	G-060-G	1,5,6	PENNBARRY, COOK
EF-14	BARBER SHOP	ROOF DOWNBLAST	43 (91)	63 (0.25)	115/1/60	1/4	GREENHECK	G-060-G	1,5,6	PENNBARRY, COOK
EF-6	STORAGE ROOM	WALL PROPELLER	118 (250)	63 (0.25)	115/1/60	1/4	GREENHECK	SE1-8-440-VG	5,6,8,10	PENNBARRY, COOK
EF-7	HOBBY SHOP PRESS.	CABINET INLINE	1676 (3553)	125 (0.5)	575/3/60	2	GREENHECK	SQ-160-VG	5,6,9	PENNBARRY, COOK

NOTES:
1. PROVIDE PREFABRICATED ROOF-CURB.
2. PROVIDE CONTROLS VIA REMOTE (IN ROOM) SWITCH, SPEED CONTROL, AND WITH 60 MINUTE DELAY-OFF 10. DAMPER AND DAMPER ACTUATOR.
3. PROVIDE CONTROLS WITH ADJUSTABLE REVERSE-ACTING THERMOSTAT.
4. PROVIDE MANUAL ON/OFF SWITCH.
5. PROVIDE C/W BACK-DRAFT DAMPER AND BIRD-SCREEN.
6. MOTOR TO BE UL/ULC OR ETL LISTED.
7. PROVIDE VARI-GREEN ECM (MOTOR) C/W MOUNTED POTENTIOMETER DIAL.
8. PROVIDE W/ OSHA RATED GUARDS, GALVANIZED DAMPER GUARD
9. PROVIDE VARIOGREEN ECM (MOTOR) C/W VARIABLE FREQUENCY DRIVE (VFD)
10. SPEED CONTROL AND DELAY TIMER TO BE PROVIDED W/ LOCKABLE ACCESS HOUSING.

UNIT TAG	SERVICE	TYPE	DUST EXPLOSION CLASSIFICATION	P.D. (PA)	BASIS OF DESIGN		NOTES	ACCEPTABLE EQUIALS
					MAKE	MODEL		
BB-1	FOR ISOLATION OF DC-1 TO HOBBY SHOP	NON-RETURN, DAMPER-TYPE EXPLOSION VALVE	Kst MAX VALUE: 300 BAR x M/S	390	QFLAP	NW-280 HOUSING - S235JR62	1,2,3	NEDERMAN GARZ, CAMFIL STINGER

NOTES:
1. NFPA COMPLIANT OR ATEX ZONE 20 RATED
2. SHALL BE SUITABLE FOR CONVEYING EXPLOSIVE DUST OF S11 OR S12
3. FLAP BLADE: STAINLESS STEEL

TAG No.	DESCRIPTION	LOCATION	180° FIELD OF REACH	AIR FLOW (L/S)	P.D. (PA)	DIAMETER (mm)	BASIS OF DESIGN		NOTES	ACCEPTABLE MATERIALS
							MAKE	MODEL		
EA-1	EXHAUST ARM	HOBBY SHOP	1.5M AT TABLE SURFACE LEVEL	378	1125	150	NEDERMAN	NEX MD	1,3,4,5,6	HENLEX, PLYMOVENT, ENVIROFLEX, CORAL
EA-2	EXHAUST ARM	HOBBY SHOP	1.5M AT TABLE SURFACE LEVEL	378	1125	150	NEDERMAN	NEX MD	1,2,4,5,6	HENLEX, PLYMOVENT, ENVIROFLEX, CORAL

NOTES:
1. ANTI-SPARK.
2. STEEL BASE MOUNT SUPPORTED WITH CUSTOM CEILING BRACKET, AND CABLE SUPPORT ON HORIZONTAL EXTENSIONS.
3. STEEL BASE MOUNT SUPPORTED WITH WALL BRACKET, AND CABLE SUPPORT ON HORIZONTAL EXTENSIONS.
4. C/W EXTENSIONS. CONTRACTOR TO VERIFY LENGTH PRIOR TO ORDERING.
5. C/W ACCESSORIES:
-QUICK RELEASE INTERCHANGEABLE CAPTURE HOOD
-360° DEGREE SWIVEL
-AIR FLOW VOLUME CONTROLLER,
-POSITIONING CONTROLLER
6. INSTALLATION AND SUPPORT SHALL COMPLY WITH MANUFACTURER RECOMMENDED METHODS.

TAG No.	DESCRIPTION	APPLICATION	LOCATION	CAPACITY L/S (CFM)	E.S.P Pa (iwg)	FILTER	BASIS OF DESIGN	NOTES	ACCEPTABLE ALTERNATES
DC-1	SELF CONTAINED DUST COLLECTOR	WOOD DUST	OUTSIDE HOBBY SHOP	1,676 (3,553)	2425 Pa (9.7 iwg)	ANTI-STATIC BAG-TYPE	DONALDSON TORIT UMA 450	1 TO 11	FARR GOLD SERIES, NEDERMAN FLEX-FILTER EX OR AUTO M-Z

NOTES:
1. REFER TO SPECIFICATIONS FOR SUPPLEMENTAL REQUIREMENTS.
2. PROVIDE W/ MANUFACTURER'S EXPLOSION PANELS W/ DIVERTER TO VENT PRESSURE AND HEAT UPWARDS (MIN. 45° FROM HORIZONTAL)
3. PROVIDE W/ MANUFACTURER'S STANDARD DUST HOPPER.
4. PROVIDE 2x SPARE HOPPERS, 4x FULL SET OF BAG FILTERS AS PART OF UNIT.
5. PROVIDE FAN W/ ALUMINUM WHEEL, SPARK RESISTANT CONSTRUCTION, AND A TEFC MOTOR
6. MAXIMUM 80 dBA AT 10 FT.
7. NFPA-684 COMPLIANT.
8. ALL ELECTRICAL COMPONENTS ARE TO BE NEMA-4 RATED FOR OUTDOOR INSTALLATION.
9. PROVIDE LOCAL DISCONNECT, C/W SINGLE POINT POWER CONNECTION.
10. PROVIDE PACKAGED CONTROL PANEL FOR COMPLETE DUST COLLECTOR OPERATION, INCLUDING:
-CONNECTION TO MANUALLY OPERATED MASTER ON/OFF SWITCH TO "ENABLE/DISABLE" THE DUST COLLECTOR.
-AUXILIARY RELAY TO INTERLOCK SHOP EQUIPMENT.
-LOCKABLE, CUSTOM STEEL CAGE COVER TO PREVENT TAMPERING.
11. ELECTRICAL: FAN MOTOR: 575/3/60, 15 HP
SHAKER MOTOR: 575/3/60, 0.75 HP

TAG No.	LOCATION	MAKE	MODEL	MAX. AIR FLOW	DIMENSIONS	DEPTH mm (FT-IN)	FREE AREA Sq Meter (Sq Ft)	AIR P.D. Pa (in w.g.)	NOTES	ACCEPTABLE MATERIALS
L-1	EAST SIDE WALL	E.H. PRICE	DE 439	SEE DRAWINGS	SEE DRAWINGS	100 (4")	0.08 (0.89)	25 (0.1)	1,2,3,4,5	NAILOR, TITUS

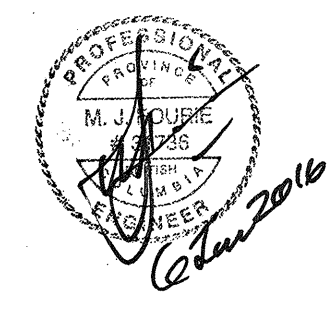
NOTES:
1. SELECT LOUVRE FASTENING TYPE TO SUIT BUILDING CONSTRUCTION.
2. CONFIRM THE EXACT SIZE REQUIRED PRIOR TO ORDERING. MINIMUM FREE AREA SHALL BE 50%, AND MAXIMUM FACE VELOCITY 1050FPM.
3. C/W BIRD AND INSECT SCREEN.
4. DRAINABLE
5. ALUMINUM CONSTRUCTION

UNIT NO.	TYPE	BASIS OF DESIGN		DAMPER	THROAT DIMENSION	OVERALL DIMENSION	COLOUR	NOTES	ACCEPTABLE MATERIALS
		MANUFACTURER	MODEL						
S-1	SUPPLY AIR DIFFUSER	E.H. PRICE	SCD	-	SEE DRAWINGS	600x600	WHITE	1	NAILOR, TUTTLE
S-2	SUPPLY AIR REGISTER	E.H. PRICE	RID	-	SEE DRAWINGS	686#	WHITE	1,2	NAILOR, TUTTLE
S-3	SUPPLY AIR REGISTER	E.H. PRICE	RID	-	SEE DRAWINGS	457#	WHITE	1,2	NAILOR, TUTTLE
S-4	SUPPLY AIR GRILLE	E.H. PRICE	520/F/L/A	-	SEE DRAWINGS	SEE DRAWINGS	WHITE	1	NAILOR, TUTTLE
R-1	RETURN AIR GRILLE	E.H. PRICE	530/F/L/A	-	SEE DRAWINGS	SEE DRAWINGS	WHITE	1	NAILOR, TUTTLE
E-1	EXHAUST AIR GRILLE	E.H. PRICE	-	-	SEE DRAWINGS	SEE DRAWINGS	WHITE	1,2	NAILOR, TUTTLE
E-2	EXHAUST W/ FILTER MOUNT	E.H. PRICE	-	VCS3	SEE DRAWINGS	SEE DRAWINGS	WHITE	1,2	NAILOR, TUTTLE
TG-1	TRANSFER AIR GRILLE	E.H. PRICE	530/F/L/A	-	SEE DRAWINGS	SEE DRAWINGS	WHITE	1,2	NAILOR, TUTTLE

NOTES:
1. PROVIDE DIFFUSERS AND GRILLES WITH BORDER STYLES THAT ARE COMPATIBLE WITH ADJACENT WALLS, CEILINGS OR DOOR SYSTEMS. CONFIRM SIZES ON SITE BEFORE ORDERING.
2. DIRECT DUCT MOUNTED C/W SEISMIC RESTRAINTS.

UNIT NO.	SERVICE	BASIS OF DESIGN		MAX AIR FLOW	DUCT SIZE	NOTES	ACCEPTABLE MATERIALS
		MANUFACTURER	MODEL				
MD-1	EF-7 DISCHARGE	RUSKIN	CD40X2	1700 L/S	600X600	1,2,3,4	EH PRICE, NAILOR

NOTES:
1. REFER TO MECHANICAL SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
2. ALUMINUM CONSTRUCTION, LOW-LEAKAGE.
3. C/W MOTORIZED ELECTRIC ACTUATORS (LOW VOLTAGE) AND ALL CONTROL HARDWARE, TRANSFORMERS, AND WIRING. CONNECT TO DDC.
4. C/W INSULATED BLADES.



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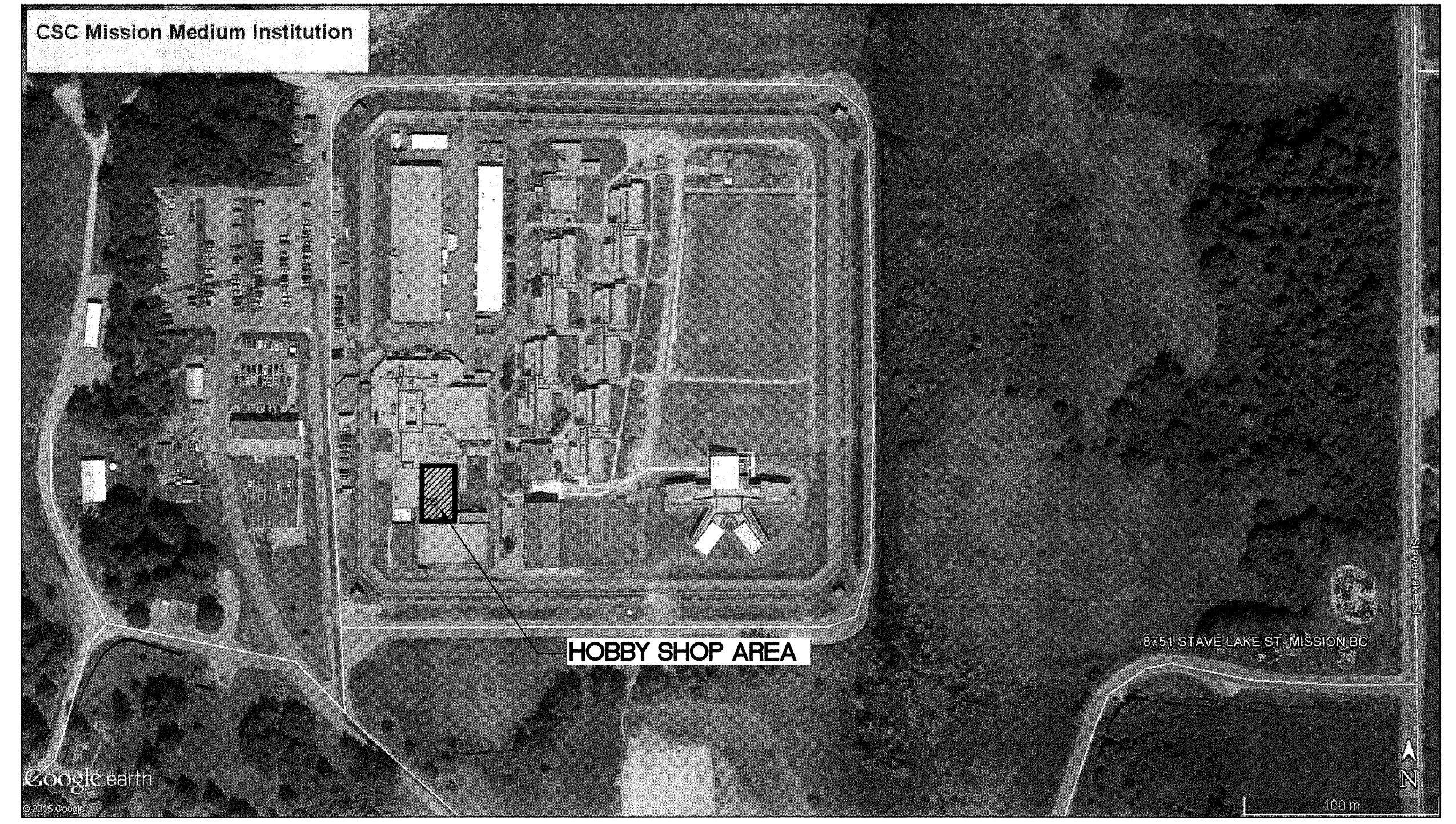
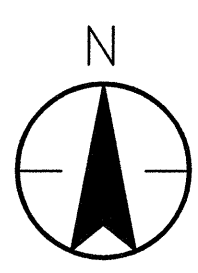
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HOBBY SHOP
DUST EXTRACTION
AND HVAC UPGRADE

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 Designed by/Concept par
Peter Necpal
 Drawn by/Dessiné par
Hung Kieu
 PWGSC Project Manager/Administrateur de Projets TPSCG
Daryl Sinclair
 PWGSC, Regional Manager, Architectural and Engineering Services/
 Gestionnaire régional, services d'architecture et de génie, TPSCG
Preetpal Paul

Drawing title/Titre du dessin
ELECTRICAL LEGEND,
NOTES AND SITE PLAN

Project No./No. du projet R.076034.001	Sheet/Feuille E001	Revision no./La Révision no. 1
		9 OF 13



1 SITE PLAN
 E-000 SCALE: N.T.S.

	POWER PANELBOARD
	PUSHBUTTON (TYPE AND WIRING AS INDICATED)
	MOTOR c/w DISCONNECT SWITCH
	MOTOR c/w COMBINATION OF DISCONNECT AND MAGNETIC MOTOR STARTER
	PACKAGED EQUIPMENT c/w DISCONNECT
	MOTOR C/W MANUAL MOTOR SWITCH
	VARIABLE SPEED SWITCH
	CURRENT TRANSFORMERS
	TRANSFORMERS
	CONTACTOR
	RELAY
	RELAY CONTACT
	MAGNETIC MOTOR START (SCHEMATIC)
	FUSE
	CONTROL PANEL, AS NOTED
	DUPLEX 5-20R RECEPTACLE C/W INTEGRAL GFCI PROTECTION
	REVERSE-ACTING THERMOSTAT
	FIRE ALARM SMOKE DETECTOR, DUCT MOUNTED

- ELECTRICAL GENERAL NOTES**
- ANY CIRCUITING SHOWN IS FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR TO CONFIRM AVAILABLE CIRCUITS IN PANELS. ACTUAL CIRCUITS TO BE INDICATED ON RECORD DRAWINGS.
 - CONTRACTOR SHALL KEEP EXISTING FIRE ALARM SYSTEM AND DEVICES ACTIVE DURING CONSTRUCTION. THERE SHALL BE NO DISRUPTION TO THE SYSTEM.
 - CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING DEVICES AND EQUIPMENT THAT REMAIN. CONTRACTOR SHALL EXTEND, REMOVE OR RELOCATE ALL ELECTRICAL DEVICES AS NOTED AND REQUIRED TO MEET THE DESIGN INTENT.
 - EXISTING CIRCUITS AND DEVICES ARE SHOWN FOR REFERENCE AND DESIGN CLARITY ONLY.
 - EXISTING ELECTRICAL EQUIPMENT, DEVICES AND WIRING ETC. TO BE RETAINED THAT ARE MOUNTED IN OR ON WALLS THAT ARE REMOVED, RELOCATED OR REFINISHED SHALL BE RELOCATED IN A CONCEALED MANNER TO SUIT NEW CONDITIONS.
 - EXISTING SITE AND BUILDING INFORMATION ON THESE DRAWINGS WERE OBTAINED FROM CASUAL SITE OBSERVATION AND INFORMATION PROVIDED BY OTHERS. CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND IMMEDIATELY NOTIFY ENGINEER OF ANY SITE CONDITION THAT MIGHT HINDER OR OBSTRUCT THE ELECTRICAL INSTALLATION AND/OR DESIGN INTENT.
 - APPROXIMATE LOCATIONS OF EXISTING AND NEW DEVICES ARE SHOWN. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING DEVICES. CONTRACTOR SHALL CONFIRM EXACT MEASUREMENTS AND LOCATIONS ON SITE. CONTRACTOR SHALL CONFIRM WIRE SIZE ON SITE AND VERIFY VOLTAGE DROP CALCULATIONS, TO ENSURE CORRECT WIRE SIZING AND SYSTEM OPERATION.
 - CONTRACTOR SHALL FIELD VERIFY AND TEST ALL MODIFIED ELECTRICAL AND CONTROL SYSTEMS TO ENSURE THEY ARE FULLY FUNCTIONAL AND OPERATIONAL AS PER THE DESIGN INTENT. SUBMIT TEST RESULTS TO ENGINEER.
 - CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUIT, CONDUCTORS, JUNCTION BOXES AND RECEPTACLES UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - CONTRACTOR SHALL READ THESE DRAWINGS IN CONJUNCTION WITH THE CANADIAN ELECTRICAL CODE (CURRENT EDITION), MECHANICAL DRAWINGS, BC BUILDING CODE (CURRENT EDITION), AND ALL OTHER PROJECT RELATED DOCUMENTATION. SCOPE OF WORK IS NOT LIMITED TO THESE DRAWINGS BUT INCLUDES ALL ITEMS AS LISTED ON DRAWINGS, SPECIFICATION, AND ALL OTHER PROJECT RELATED DOCUMENTATION.
 - FIELD COORDINATE ELECTRICAL DEVICES AND EQUIPMENT WITH OTHER DIVISIONS ON SITE. ADJUST ELECTRICAL DEVICE AND EQUIPMENT PLACEMENT AS REQUIRED TO SUIT FIELD CONDITIONS. ALL NEW ELECTRICAL INSTALLATION SHALL BE IN CONFORMANCE WITH THE CANADIAN ELECTRICAL CODE (CURRENT EDITION) AND BC BUILDING CODE (CURRENT EDITION) INCLUDING CLEARANCES AND SETBACKS.
 - CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL DEVICES AND COMPONENTS WITH EQUIPMENT MANUFACTURERS AND SUPPLIER. NOT ALL SYSTEM COMPONENTS ARE SHOWN. CONTRACTOR SHALL PROVIDE ALL COMPONENTS, DEVICES, AND MATERIAL AS REQUIRED TO ENSURE INSTALLATION OF A COMPLETE AND FUNCTIONAL SYSTEM.
 - CONTRACTOR SHALL CONFIRM WIRING SIZING AND PERFORM VOLTAGE DROP CALCULATIONS FOR EACH WIRE RUN BACK TO EACH SOURCE PANEL.
 - ALL WIRING SHALL BE INSTALLED IN CONDUIT SYSTEMS AS INDICATED. ALL CONDUITS SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE.
 - ENSURE THAT POWER, FIRE ALARM AND CONTROL WIRING TO BE IN SEPARATE CONDUIT SYSTEMS.
 - CONTRACTOR SHALL BOND ALL NON-CURRENT CARRYING METAL PARTS OF THE SYSTEM AS REQUIRED BY CODE. ENSURE ALL PARTS OF THE SYSTEM ARE GROUNDED AND EXISTING GROUNDING AND BONDING SYSTEMS ARE PROTECTED AND MAINTAIN CONDUCTIVITY. ALL BOND CONDUCTORS TO BE COPPER COMPRESSION TYPE AND GROUND CONDUCTORS TO BE SOLID COPPER.
 - CONTRACTOR SHALL VERIFY THE NEW ELECTRICAL SYSTEMS ARE TESTED, COMMISSIONED, AND READY FOR USE PRIOR TO TURNOVER TO THE OWNER. CONTRACTOR SHALL FIELD TEST THE ENTIRE SYSTEM AND ENSURE IT IS OPERATIONAL AND READY FOR USE. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER OF ALL SYSTEMS AND COMMISSION AS PART OF THIS SCOPE OF WORK. ALL TEST AND COMMISSIONING REPORTS SHALL BE SUBMITTED TO ENGINEER.
 - UNLESS OTHERWISE NOTED ALL GROUNDING WIRES COLORS SHALL BE GREEN WITH A YELLOW STRIPE.

TAG	DESCRIPTION	SERVICE/LOCATION	HORSEPOWER		VOLTAGE		PHASE	BREAKER	C/I FEEDER	EQUIPMENT			DISCONNECT			STARTER			NOTES																														
			1	2	3	4				5	6	7	8	9	10	11	12	13		14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
RTU-15	RTU support space	Roof top Native area	1	575	3	15	2#12	M	M	E	M	E	E	E	E	E	E	E	E	MMS	1,2,3,7																												
RTU-15A	RTU hobby	Roof top Hobby shop	3	575	3	15	2#12	M	M	E	M	E	E	E	E	E	E	E	E	MMS	1,2,7																												
EF-19	Exhaust upblast	Roof top Native area	1/2	115	1	15	2#12	M	M	E	E	E	E	E	E	E	E	E	E	MMS	2,3,4,8																												
EF-2	Exhaust downblast	Roof top Finishing	1/4	115	1	15	2#12	M	M	E	E	E	E	E	E	E	E	E	E	MMS	2,3,4,8																												
EF-3A	Exhaust downblast	Roof top Electrical	1/4	115	1	15	2#12	M	M	E	E	E	E	E	E	E	E	E	E	MMS	2,6																												
EF-13	Exhaust downblast	Roof top Canteen	1/4	115	1	15	2#12	M	M	E	E	E	E	E	E	E	E	E	E	MMS	2,3,8																												
EF-14	Exhaust downblast	Roof top Barber	1/4	115	1	15	2#12	M	M	E	E	E	E	E	E	E	E	E	E	MMS	2,3,8																												
EF-6	Exhaust propeller	Sidewall	1/4	115	1	15	2#12	M	M	E	E	E	E	E	E	E	E	E	E	MAG	3,8																												
EF-7	Relief Air Pressurization Fan	Hobby Shop Ceiling	2	575	3	20	3#12	M	M	E	E	E	E	E	E	E	E	E	E	VSD																													
DC-1	Shaker	Exterior Pad	15 + 1	575	3	50	3#10	M	M	M	M	M	E	-	-	-	-	-	-	PCS	2,5																												
DC-1	Dust Collector Ctrl Panel	Hobby Shop		115	1	15	2#12	M	M	E	-	-	-	-	-	-	-	-	-																														
BMS-1	BMS Control Panel	Mech Rm 112		115	1	15	2#12	M	M	E	-	-	-	-	-	-	-	-	-																														
TOTAL																																																	

NOTES:

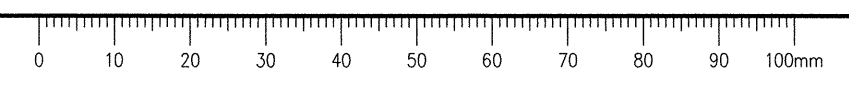
- Provide duct mounted smoke detector and all components require for fire alarm interface/shut-off.
- All outdoor equipment to be NEMA 4 rated.
- Equipment is replacing existing equipment of equal rating. Re-Use existing circuit breaker and feeder cables. Provide new local disconnect switch. Confirm sufficient ampacity of existing circuit breaker and feeder cables with requirements of new equipment. Notify departmental representative of any
- Wire to wall switch, switch provided by division 25, installed and wired by division 26.
- Provide CT on motor feeders tied to DDC and to shop equipment. DC-1 to be activated by manual switch (supplied and installed by div 26). Equipment to be interlocked such that designated shop equipment is only energized when dust collector is running. Refer to detail 3/E10D
- Mount and install reverse acting thermostat
- Provide additional 120V circuit including circuit breaker.
- Provide 120V connection to 120/240V control transformer (transformer supplied by mechanical)

ABBREVIATIONS/RESPONSIBLE PARTY:

MMS Manual motor switch c/w built-in heater.
 MAG Magnetic motor starter c/w HOA and pilot light.
 VSD Variable Speed Drive.
 PCS Packaged Control System.
 M Mechanical Contractor
 E Electrical Contractor

GENERAL:

* CONFIRM EXACT SIZE, LOCATION, AND WIRING REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO CONNECTING.
 * REVIEW MECHANICAL DRAWINGS TO ENSURE LOCATIONS AND QUANTITIES.





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Revision/	Description/Description	Date/Date

Client/client

PWGSC CORRECTIONAL SERVICE CANADA

Project Title/Titre du projet
MISSION MEDIUM INSTITUTION MISSION, BC

HOBBY SHOP DUST EXTRACTION AND HVAC UPGRADE

Consultant Signature Box Only

Designed by/Concept par
Peter Necpal

Drawn by/Dessiné par
Hung Kieu

PWGSC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

PWGSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architectural et de génie, TPSGC
Preetpal Paul

Drawing Title/Titre du dessin

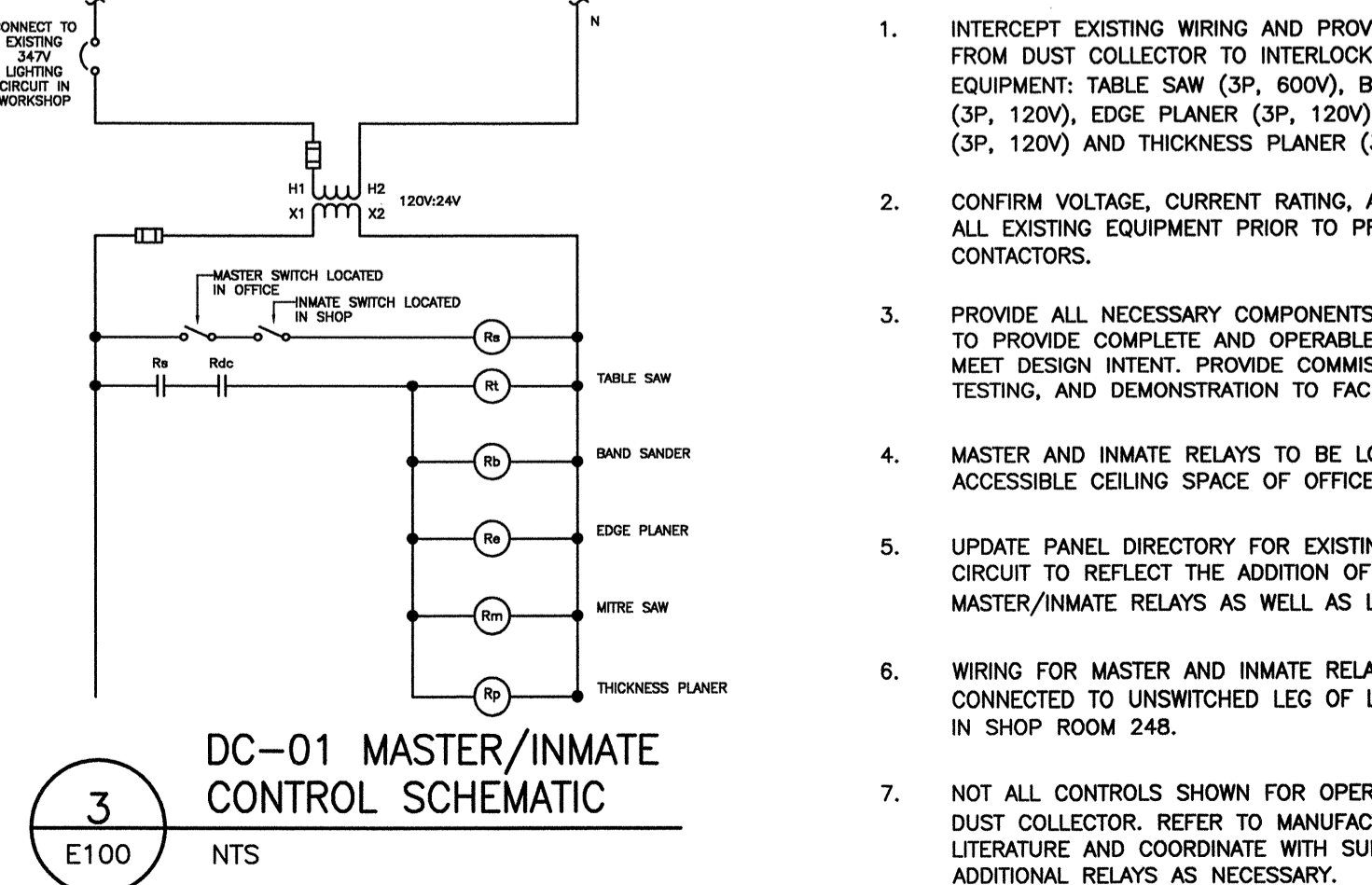
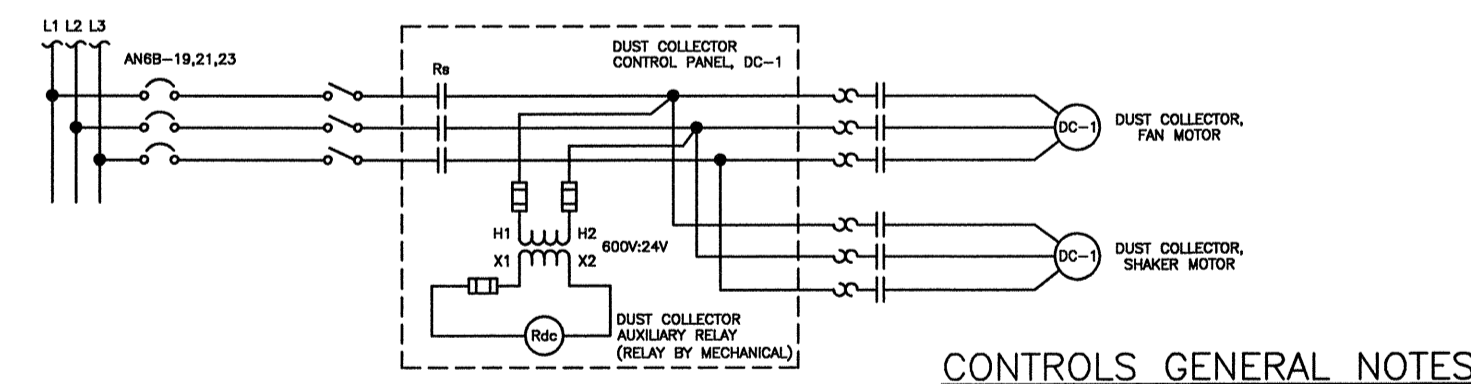
ELECTRICAL FLOOR PLAN HOBBY SHOP - NEW

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
R.076034.001	E100	1

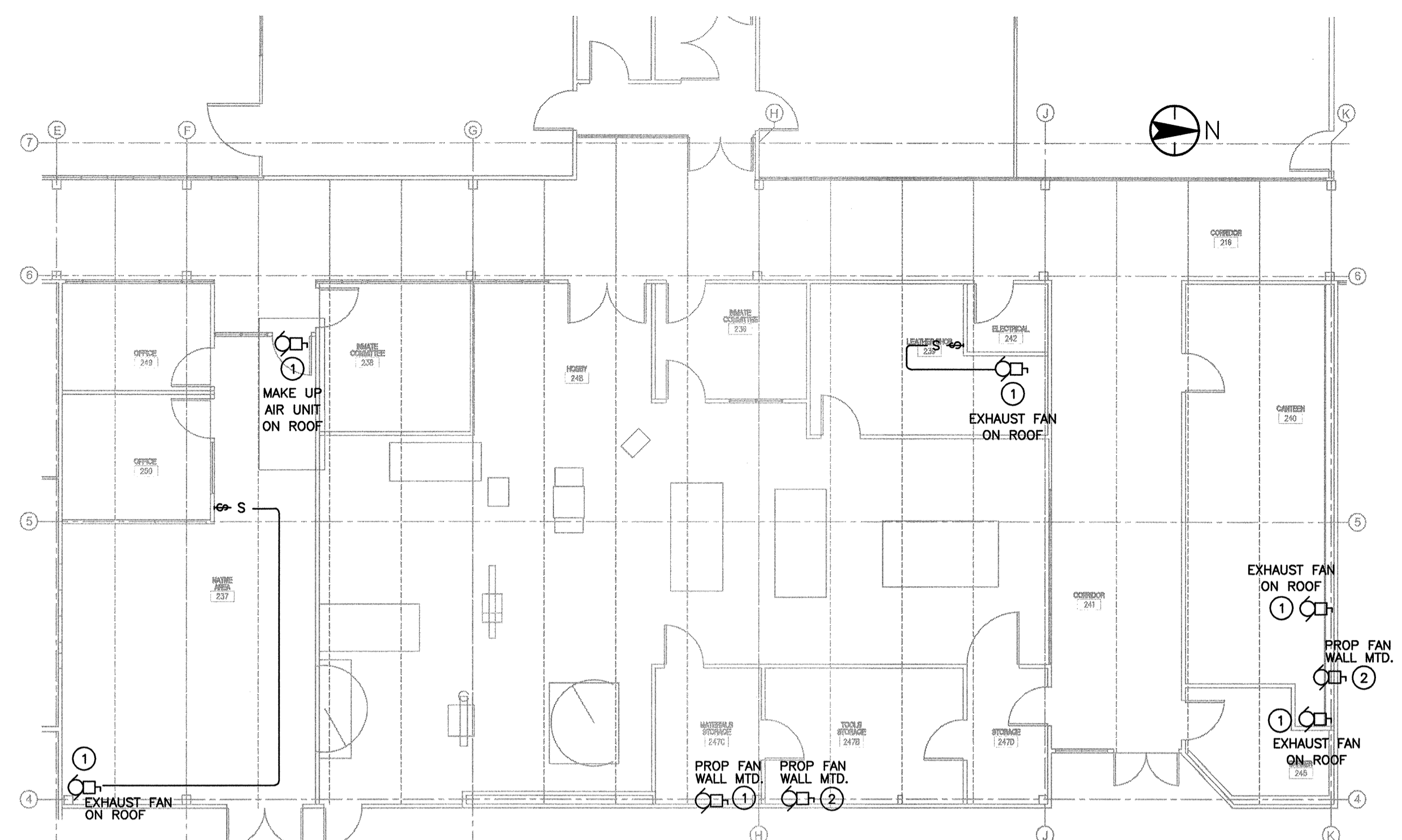
PANEL: AS2B										LOCATION: ELECTRICAL CLOSET			
										TYPE: F.T.E. NLAB STYLE			
NOTE	LOAD	TYPE	DESCRIPTION	BRKR	CCT	PHASE	CCT	BRKR	DESCRIPTION	TYPE	LOAD	NOTE	
			EXISTING LOAD	15A	1	A	2	15A	LTG-A235				
			BAND SAW	15A	3	B	4	15A	LTG-R217, OUTDOORS				
			DUST COLLECTOR	15A	5	C	6	15A	LTG-R226, R246, R248A				
			UNIT P1	15A	7	A	8	15A	EXISTING LOAD				
			UNIT P2	15A	9	B	10	15A	EXISTING LOAD				
			219 PROSECTOR	15A	11	C	12	15A	RECEPTACLE-ADMIN FAX				
			HOBBY SHOP FANS	15A	13	A	14	15A	RECEPT- COMPUTERS IN HALL				
			LTG-GYM CARVING SHACK	20A	15	B	16	20A	PHOTOCOPIER				
			EXISTING LOAD	15A	17	C	18						
			LIN CABLE 3	15A	19	A	20	15A	EXISTING LOAD				
			A27 HALL LTG	15A	21	B	22	15A	EXISTING LOAD				
			EXISTING LOAD	15A	23	C	24	15A	EXHAUST FAN EF-3A				
			EXISTING LOAD	15A	25	A	26	15A	EXISTING LOAD				
			ROOM 219 S WALL	15A	27	B	28	15A	EXISTING LOAD				
			ROOM 219 W WALL	15A	29	C	30						
			EXISTING LOAD	3P	31	A	32	15A	RECEPTACLE-SPO OFFICE				
			EXISTING LOAD	60	33	B	34	15A	BMS-1 CONTROL PANEL				
			TABLE SAW	A	35	C	36						
			RECEPTACLE ROOF TOP MAINT.	2P	37	A	38	3P	FFVs				
				15A	39	B	40	50					
				20A	41	C	42	A					
LOAD BREAKDOWN				CONNECTED	DERATED	PANEL DESCRIPTION							
L LIGHTING:	0	100%	0	VOLTAGE	: 208	V							
C COOLING:	0	0%	0	PHASE	: 3								
H HEATING:	0	100%	0	AMPERAGE	: 0	A							
M MECHANICAL:	0	80%	0	PANEL AMPACITY	: 225	A							
R GENERAL RECEPTACLES:	0	60%	0	MAIN BREAKER	: -	A							
E OWNER EQUIPMENT:	0	80%	0	# OF TUBS	: 1								
TOTAL:	0	W	0										

PANEL: AN6B										LOCATION: ELECTRICAL CLOSET			
										TYPE: EATON POW-R-LINE C (EXISTING)			
NOTE	LOAD	TYPE	DESCRIPTION	BRKR	CCT	PHASE	CCT	BRKR	DESCRIPTION	TYPE	LOAD	NOTE	
			TABLE SAW	3P	1	A	2	15A	LIGHTING				
				15	3	B	4	15A	LIGHTING				
				A	5	C	6	15A	LIGHTING				
			EXISTING LOAD	3P	7	A	8	15A	LIGHTING				
				15	9	B	10	15A	LIGHTING				
				A	11	C	12	15A	LIGHTING				
			EXISTING LOAD	3P	13	A	14	15A	LIGHTING				
				15	15	B	16	15A	LIGHTING				
				A	17	C	18						
			8200 E DUST COLLECTOR DC-1 (FAN & SHAKER)	3P	19	A	20	3P	EXHAUST FAN, EF-3				
				50	21	B	22	15					
				A	23	C	24	A					
			1350 H RTU-15A	3P	25	A	26	3P	BUJA-1 ENG. AIR, 3HP				
				15	27	B	28	15					
				A	29	C	30	A					
			950 M EF-7	3P	31	A	32	3P	BUJA-2 ENG. AIR, 3HP				
				15	33	B	34	15					
				A	35	C	36	A					
				37	A	38	3P						
				39	B	40	40						
				41	C	42	A						
LOAD BREAKDOWN				CONNECTED	DERATED	PANEL DESCRIPTION							
L LIGHTING:	0	100%	0	VOLTAGE	: 600	V							
C COOLING:	0	0%	0	PHASE	: 3								
H HEATING:	4050	100%	4050	ADD'L AMPERAGE	: 25.028	A							
M MECHANICAL:	2850	80%	2280	PANEL AMPACITY	: 100	A							
R GENERAL RECEPTACLES:	0	60%	0	MAIN BREAKER	: -	A							
E OWNER EQUIPMENT:	24600	80%	19680	# OF TUBS	: 1								
TOTAL:	31500	W	26010										

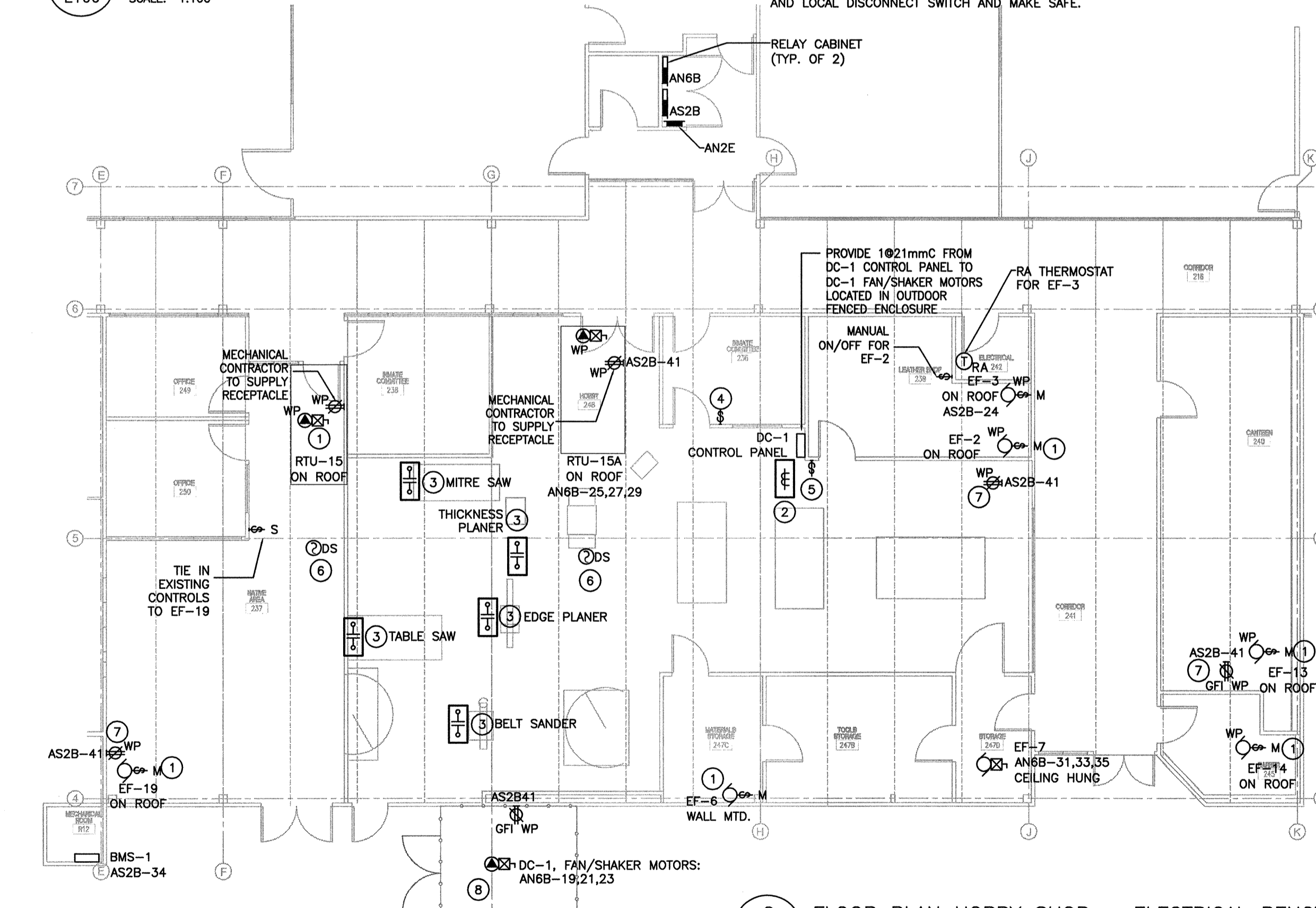
PANEL NOTES:
1. PANEL AS2B IS EXISTING NLAB STYLE MANUFACTURED BY F.T.E. CIRCUIT BREAKER (CANADA) LTD. PANEL AN6B IS AN EXISTING POW-R-LINE C STYLE AND MANUFACTURED BY EATON. CONTRACTOR TO PROVIDE CIRCUIT BREAKERS TO MATCH EXISTING EQUIPMENT IN EACH PANEL WITH THE SAME FAULT CURRENT INTERRUPTING RATINGS AS EXISTING BREAKERS.



DC-01 MASTER/INMATE CONTROL SCHEMATIC



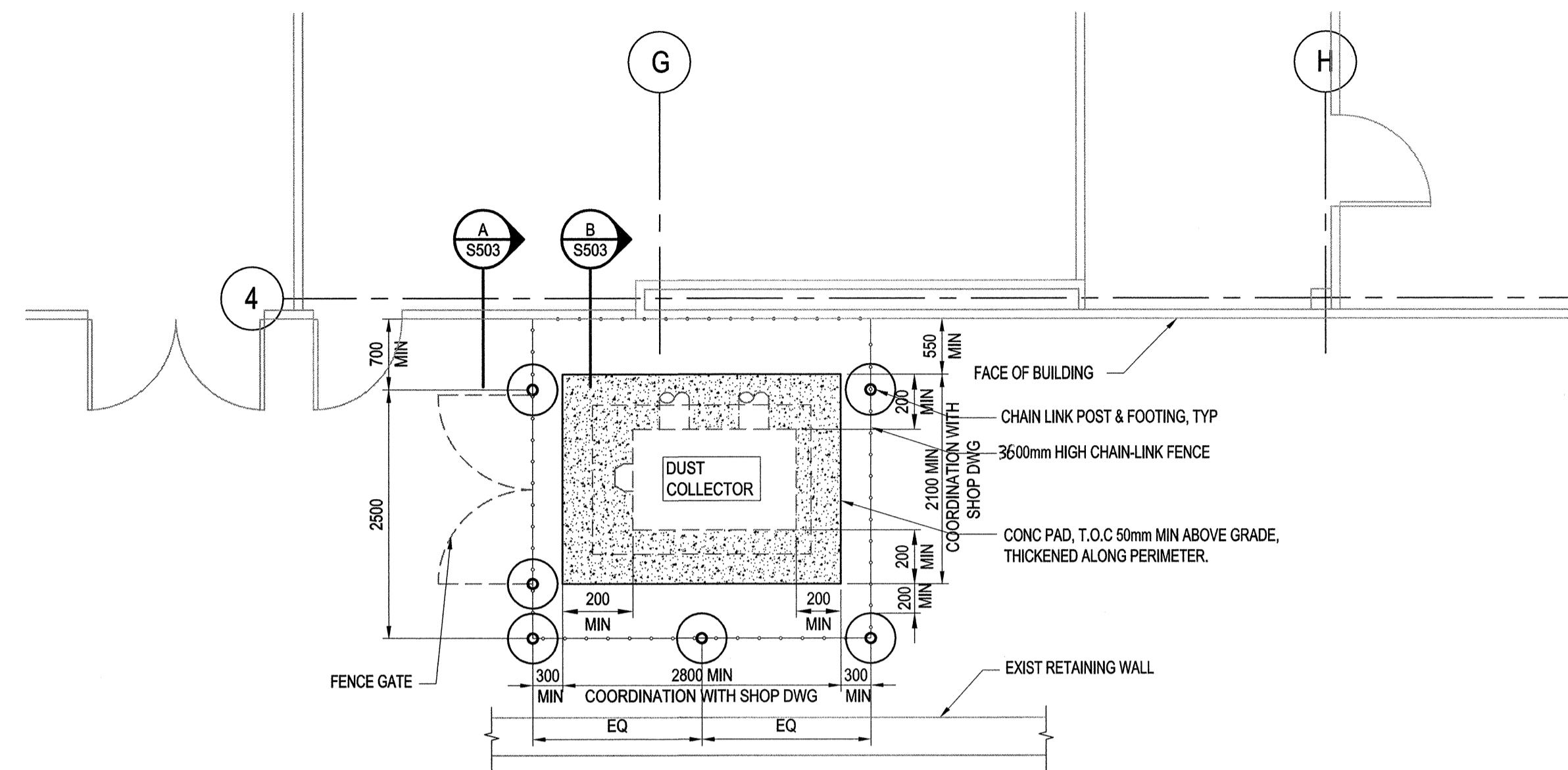
DEMOLITION REFERENCE NOTES:
1 EXISTING EQUIPMENT TO BE REMOVED AND REPLACED WITH NEW AS SHOWN IN DETAIL 2/E100. RETAIN CIRCUIT BREAKER AND FEEDER CONDUIT/CABLES FOR RE-USE. REMOVE DISCONNECT SWITCH.
2 EXISTING EQUIPMENT TO BE REMOVED. CIRCUIT BREAKER TO REMAIN IN "OFF" POSITION, AND LABELLED IN NEW PANEL DIRECTORY AS "SPARE" FEEDER CABLES AND LOCAL DISCONNECT SWITCH AND MAKE SAFE.



RENOVATION REFERENCE NOTES:
1 NEW EQUIPMENT TO REPLACE EXISTING EQUIPMENT OF SAME ELECTRICAL LOAD. RE-USE EXISTING CIRCUIT BREAKER AND WIRING. PROVIDE NEW LOCAL DISCONNECT SWITCH AND CONNECTION TO EQUIPMENT.
2 INSTALL CTs ON DC-1 FAN MOTOR FEEDER CABLES. CTs TO PROVIDE "ON" SIGNAL AND DATA TO DDC. COORDINATE WITH MECHANICAL (CTs SUPPLIED BY MECHANICAL).
3 INTERLOCK SHOP EQUIPMENT WITH DUST COLLECTOR AUXILIARY RELAY, Rdc (RELAY SUPPLIED BY MECHANICAL), TO PREVENT SHOP EQUIPMENT FROM RUNNING IF DUST COLLECTOR FAN IS NOT ON. INSTALL SHOP CONTACTORS AT UNDERSIDE OF STRUCTURE LOCATED ABOVE SHOP EQUIPMENT.
4 DUST COLLECTOR SYSTEM MASTER ON/OFF.
5 DUST COLLECTOR SYSTEM INMATE CONTROL.
6 PROVIDE NEW DUCT SMOKE DETECTOR. CONNECT TO EXISTING DUCT SMOKE DETECTOR WIRING. COORDINATE WITH MECHANICAL FOR LOCATION.
7 MAINTENANCE RECEPTACLE ON ROOF LOCATED AS PER C.E.C RULE 26-704
8 PROVIDE 2@12 Cu FROM DC-1 FAN/SHAKER MOTORS (SINGLE POINT CONNECTION) TO DC-1 CONTROL PANEL FOR CONTROL PANEL POWER. PROVIDE LOCAL, WEATHERPROOF DISCONNECT AT FAN/SHAKER CONNECTION TO COMPLY WITH C.E.C. RULE 28-502(1), SAFETY FOR REMOTE CONTROL OF MOTOR STARTER.



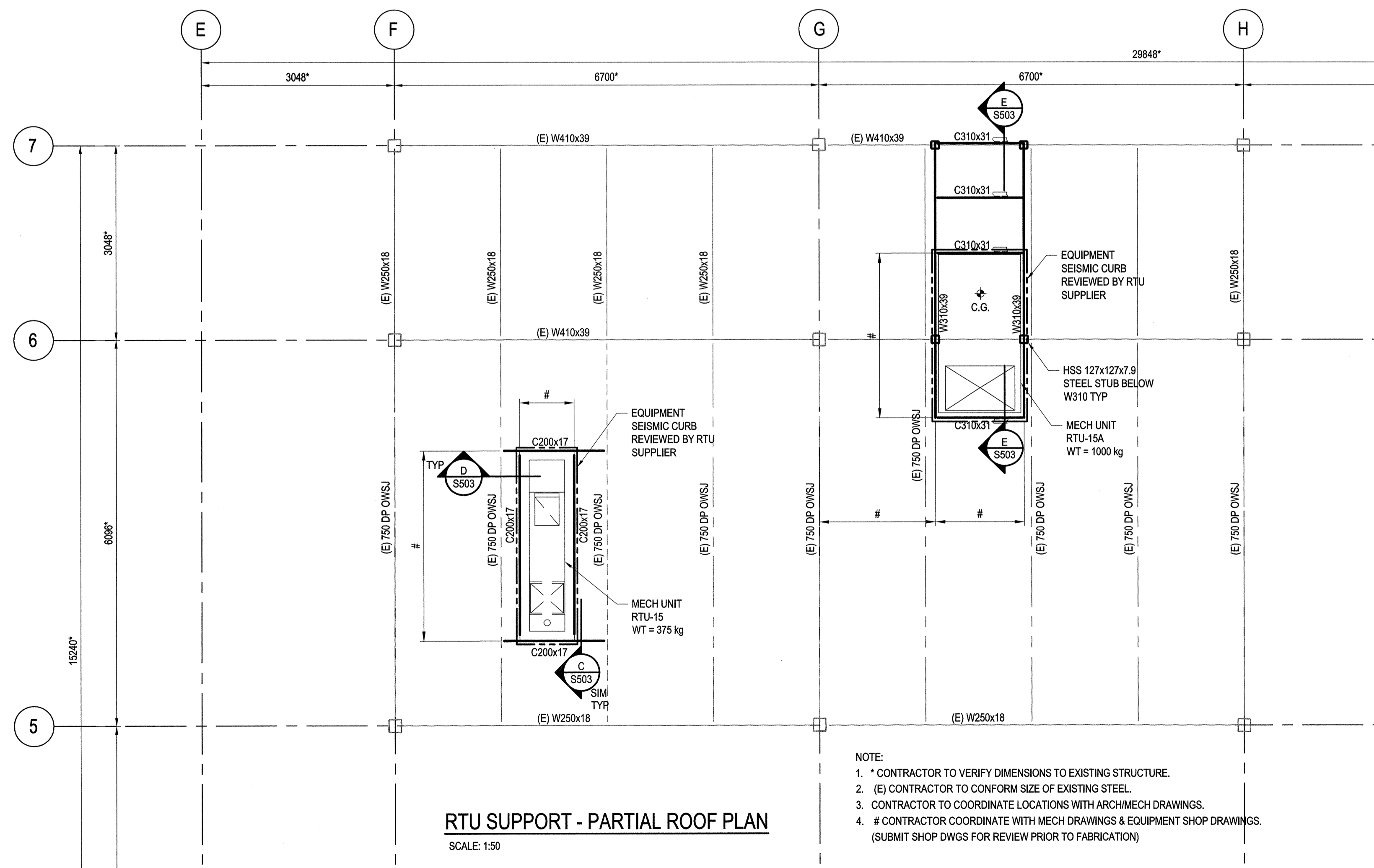
Stantec Consulting Ltd.
1100 - 111 Dunsuir Street
Vancouver BC
Tel. 604.696.8000
www.stantec.com



NOTE:
1. CONTRACTOR TO COORDINATE LOCATION AND LAYOUT WITH ARCHMECH DRAWINGS.

DUST COLLECTOR PAD AND FENCE PLAN

SCALE: 1:50



NOTE:
1. * CONTRACTOR TO VERIFY DIMENSIONS TO EXISTING STRUCTURE.
2. (E) CONTRACTOR TO CONFORM SIZE OF EXISTING STEEL.
3. CONTRACTOR TO COORDINATE LOCATIONS WITH ARCHMECH DRAWINGS.
4. # CONTRACTOR COORDINATE WITH MECH DRAWINGS & EQUIPMENT SHOP DRAWINGS. (SUBMIT SHOP DWGS FOR REVIEW PRIOR TO FABRICATION)

RTU SUPPORT - PARTIAL ROOF PLAN

SCALE: 1:50

Revision/Revisión	Description/Description	Date/Date
1	Issued for tender	2016.06.01

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**MISSION MEDIUM INSTITUTION
MISSION, BC**

**HOBBY SHOP
DUST EXTRACTION
AND HVAC UPGRADE**

Consultant Signature Box Only

Designed by/Concept par
MK

Drawn by/Dessiné par
WH

PWGSC Project Manager/Administrateur de Projets TPSOC
Daryl Sinclair

PWGSC, Regional Manager, Architectural and Engineering Services / Gestionnaire Régionale, Services d'architecture et de génie, TPSOC
Preetpal Paul

Drawing title/Titre du dessin

**STRUCTURAL
DUST COLLECTOR PAD AND FENCE
PARTIAL ROOF PLAN**

Project No./No. du projet R.076034.001	Sheet/Feuille S502 12 OF 13	Revision no./ La Révision no. 1
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Stantec Consulting Ltd.
1100 - 111 Dunsmuir Street
Vancouver BC
Tel. 604.696.8000
www.stantec.com



1	Issued for tender	2016.06.01
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CORRECTIONAL SERVICE CANADA

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**MISSION MEDIUM INSTITUTION
MISSION, BC**

**HOBBY SHOP
DUST EXTRACTION
AND HVAC UPGRADE**

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Daryl Sinclair

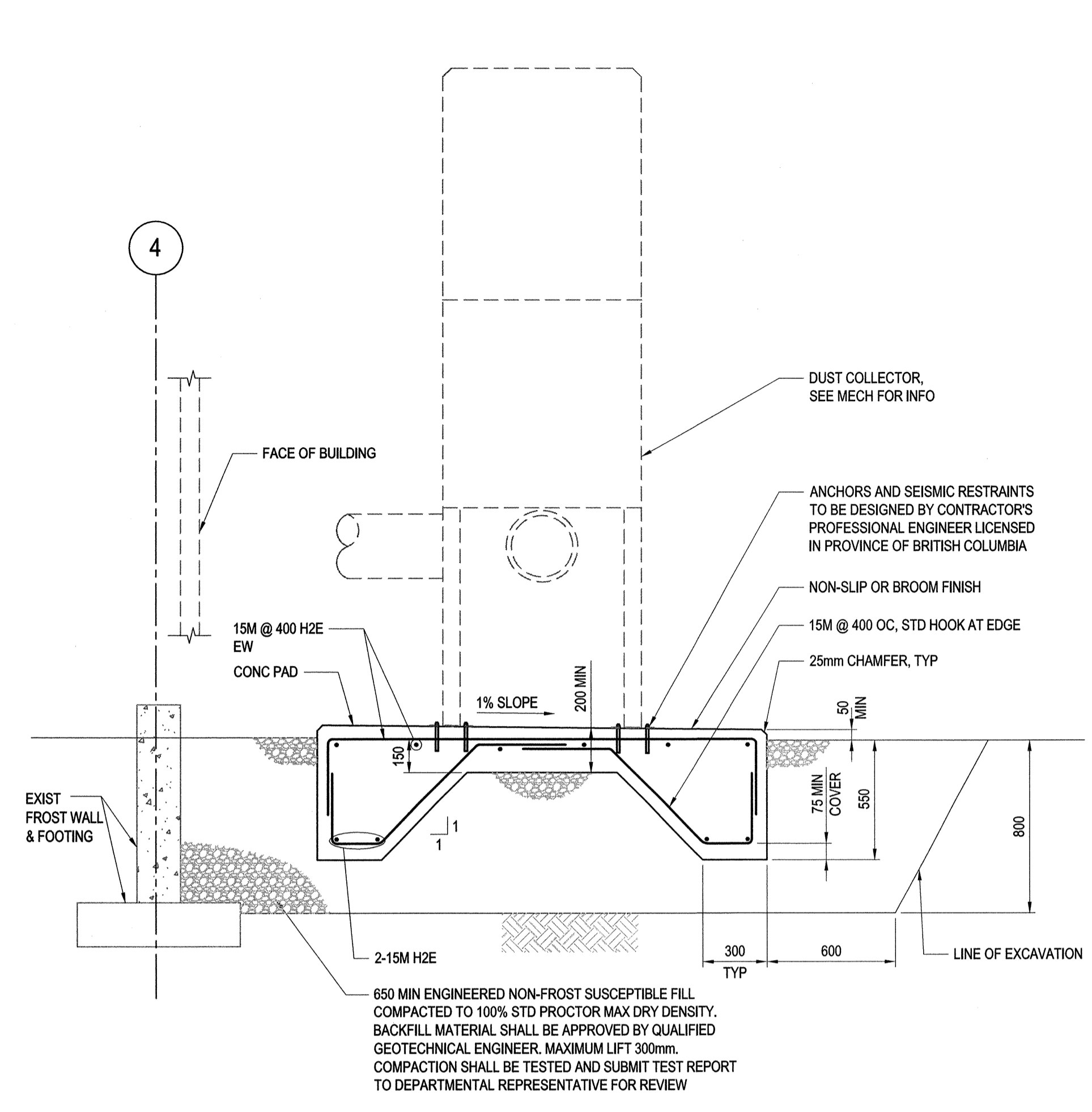
PWGSC Regional Manager, Architectural and Engineering Services/
Gestionnaire régionale, Services d'architectural et de génie, TPSSC
Preetpal Paul

Drawing title/Titre du dessin

**STRUCTURAL
SECTIONS AND DETAILS**

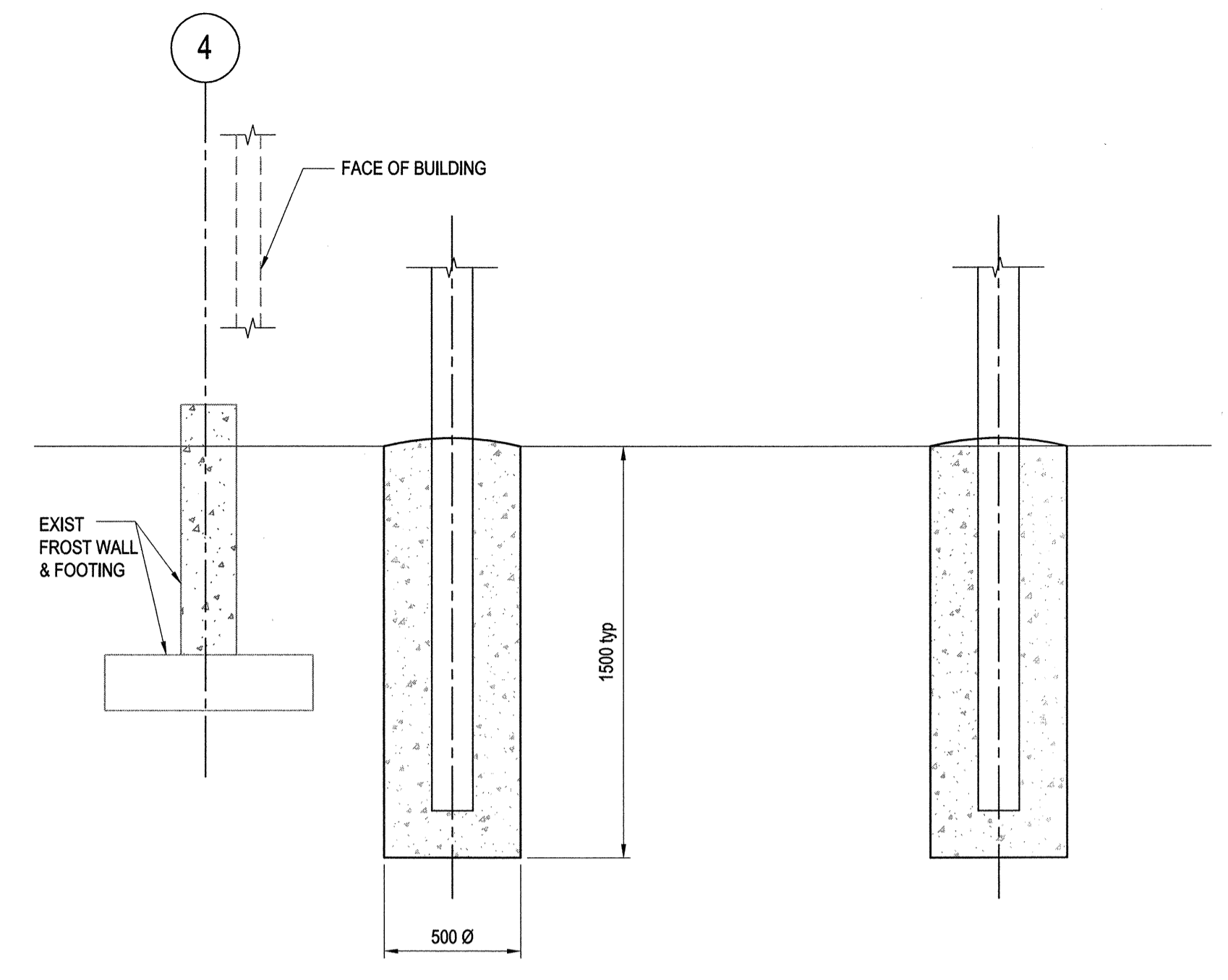
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R.076034.001 / **S503** / **1**
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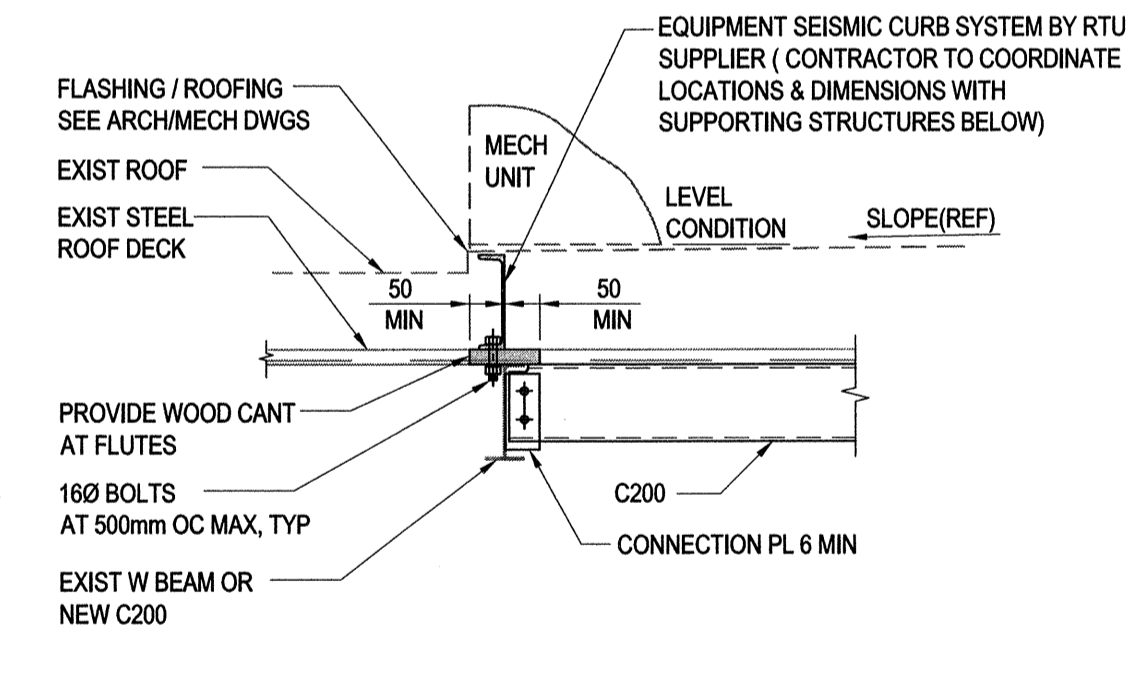


A SECTION
S502 SCALE: 1:20

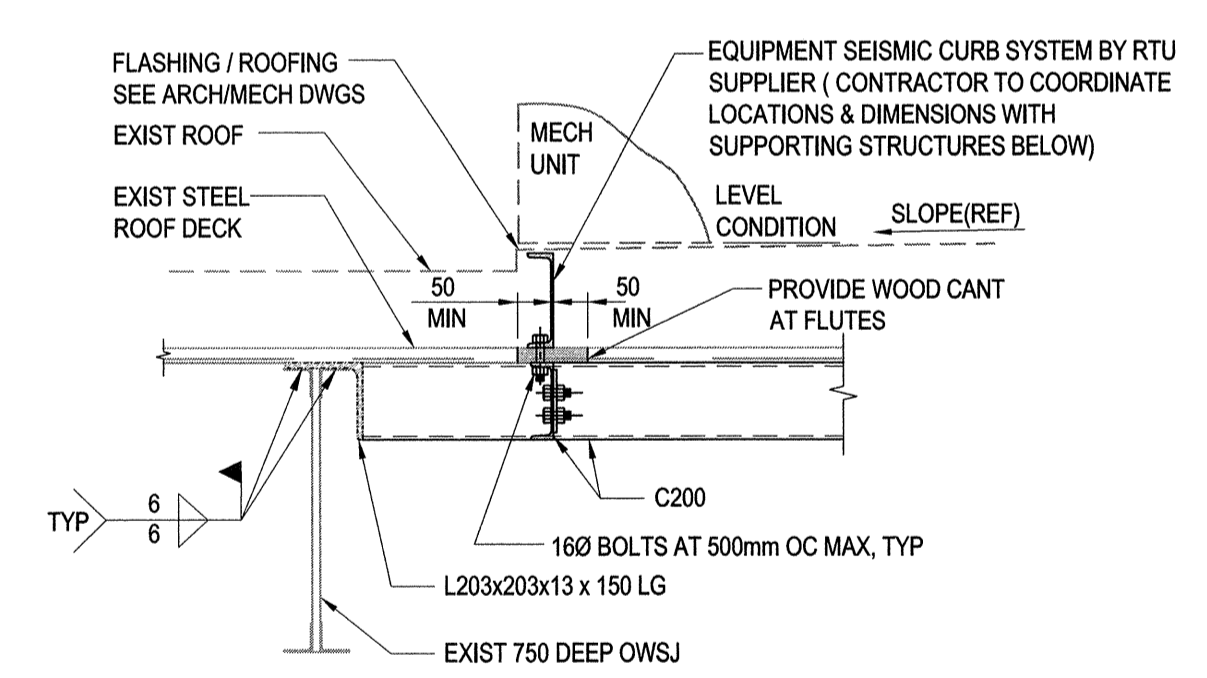
650 MIN ENGINEERED NON-FROST SUSCEPTIBLE FILL COMPACTED TO 100% STD PROCTOR MAX DRY DENSITY. BACKFILL MATERIAL SHALL BE APPROVED BY QUALIFIED GEOTECHNICAL ENGINEER. MAXIMUM LIFT 300mm. COMPACTION SHALL BE TESTED AND SUBMIT TEST REPORT TO DEPARTMENTAL REPRESENTATIVE FOR REVIEW



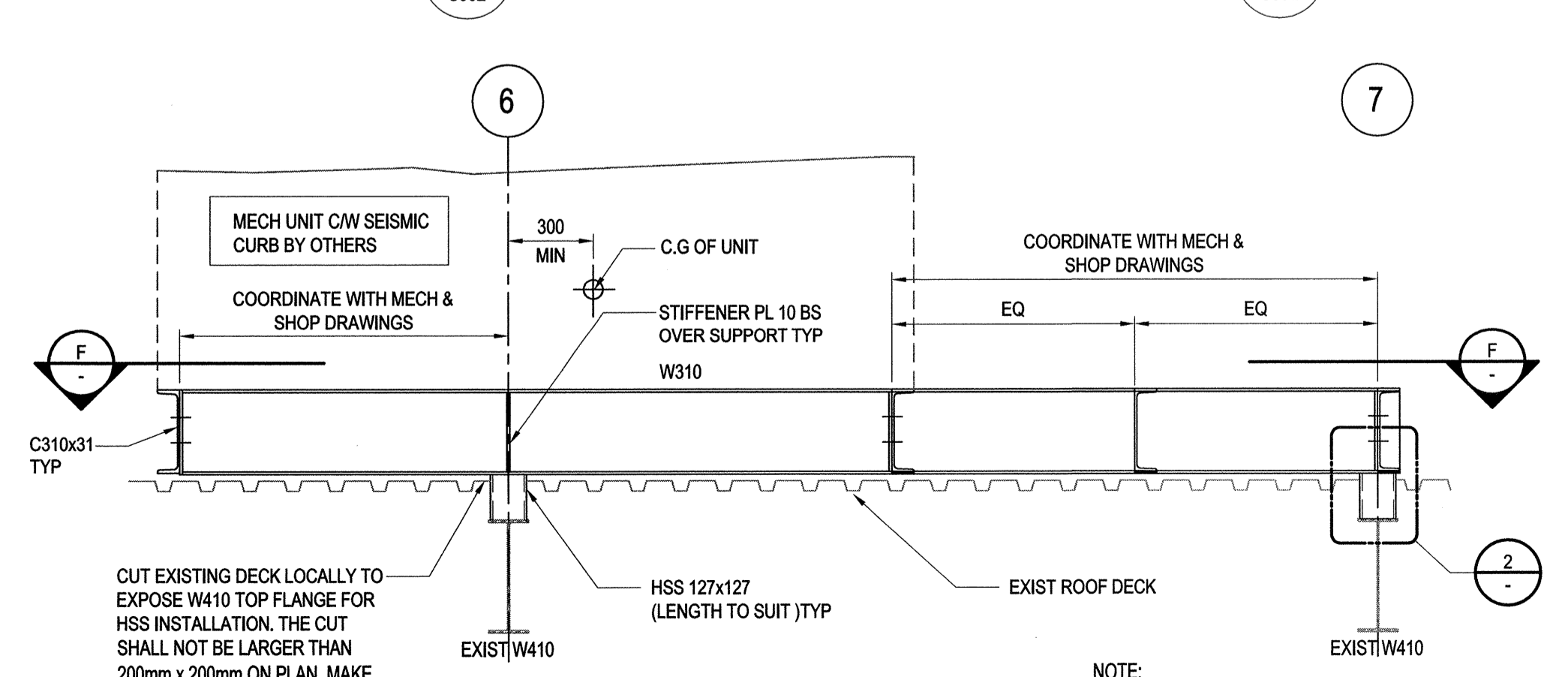
B SECTION
S502 SCALE: 1:20



C SECTION
S502 SCALE: 1:20

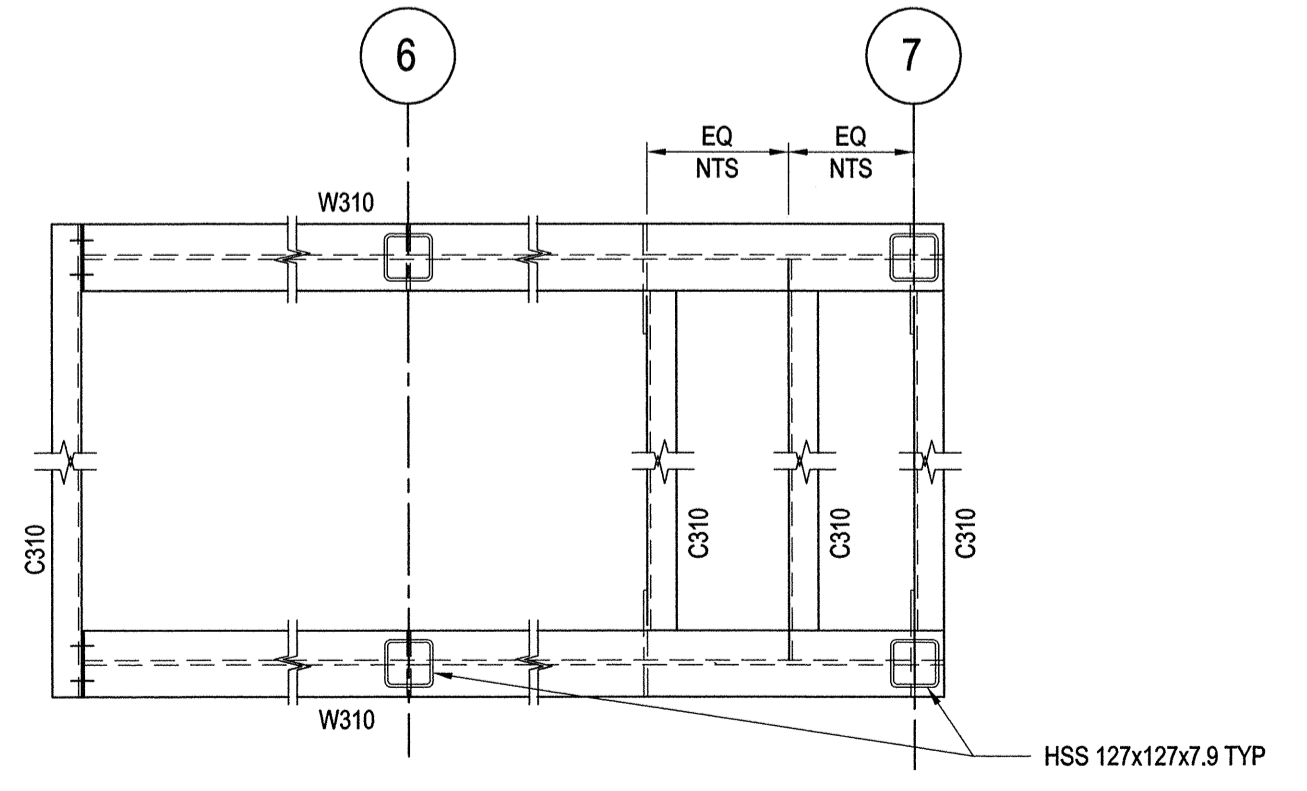


D SECTION
S502 SCALE: 1:20

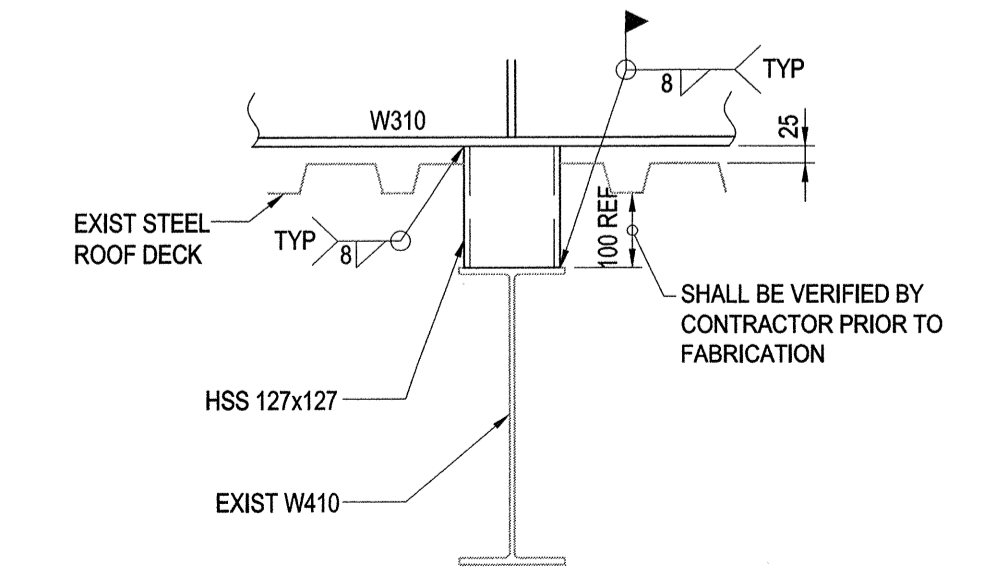


E SECTION
S502 SCALE: 1:20

NOTE: SEE MECH & ARCH DRAWINGS FOR ROOFING DETAILS



F SECTION
SCALE: 1:20



2 DETAIL
SCALE: 1:10

