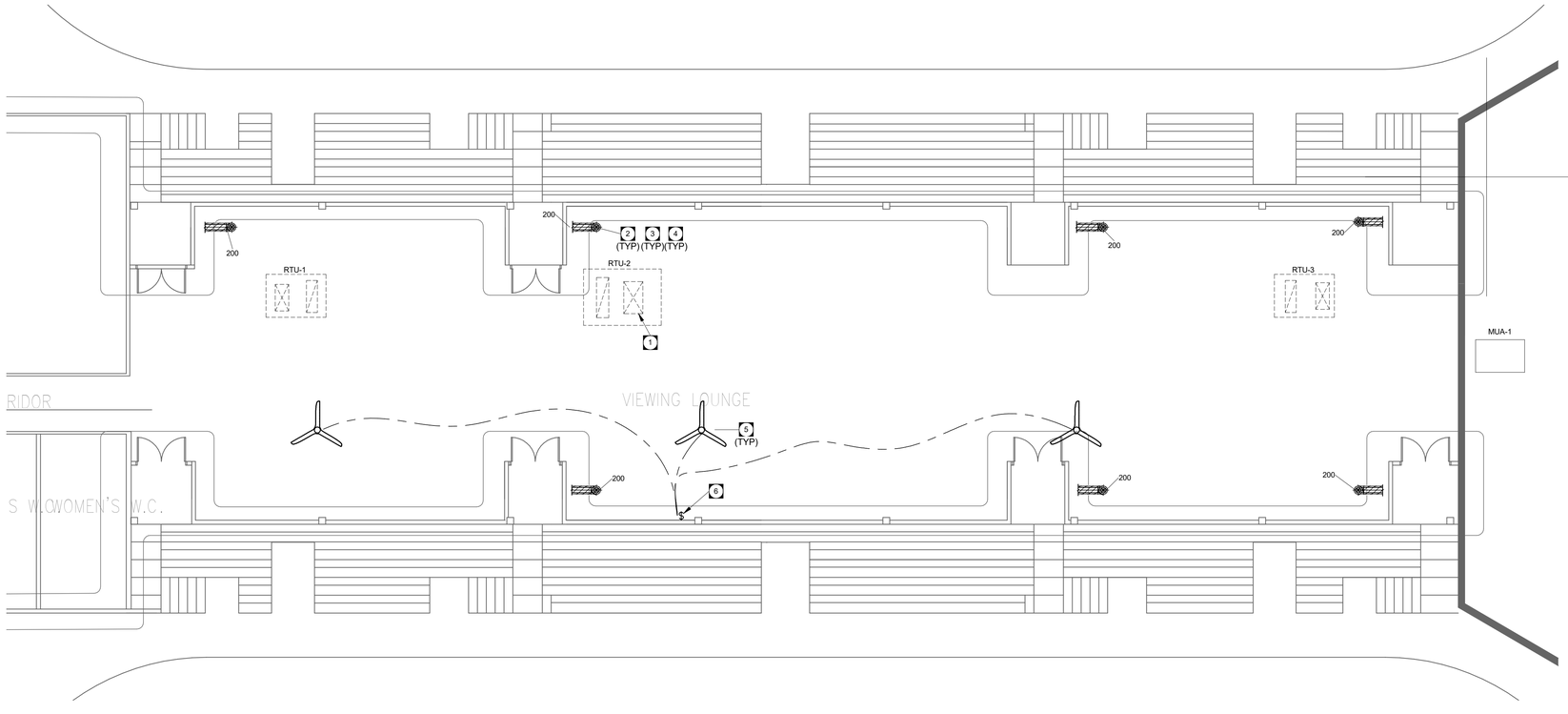
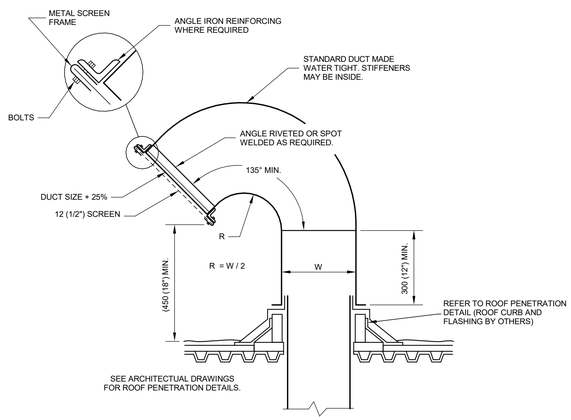


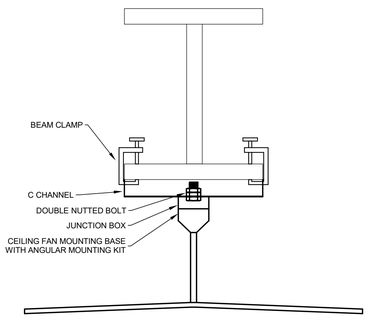

1 / M1 SECOND FLOOR PLAN - HVAC

SCALE: 1 : 100



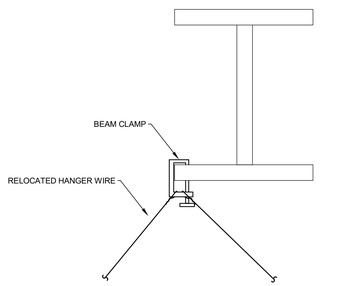

TYPICAL GOOSENECK DETAIL

SCALE: N.T.S.




CEILING FAN HANGING DETAIL

SCALE: N.T.S.




HANGER WIRE RELOCATION DETAIL

SCALE: N.T.S.

## HVAC GENERAL NOTES

A. DUCT TRANSITIONS MAY NOT BE SHOWN IN DETAIL ON PLAN. REFER TO SMACNA - HVAC DUCT CONSTRUCTION STANDARDS FOR REQUIRED DUCT TRANSITIONS AND FITTINGS.
B. DUCTS LOCATED ABOVE ROOF LEVEL SHALL BE BRACED ON THE METAL ROOF AGAINST SNOW SLIP DAMAGE.
C. DUCT INSULATION MATERIALS SHALL MEET SMOKE AND FLAME SPREAD REQUIREMENTS FOR PLENUM INSULATION.
D. DUCT INSULATION SHALL FOLLOW THE SPECIFIED SIZE AS A MINIMUM REQUIREMENT. THESE REQUIREMENTS SHALL APPLY REGARDLESS OF WHETHER OR NOT DUCT INSULATION IS SHOWN ON THE DRAWINGS.
E. THE INTERRUPTION OF ANY SERVICES SHALL BE COORDINATED WITH THE BUILDING END USER AND SHALL BE KEPT TO A MINIMUM.
F. DUCT TRANSITIONS MAY NOT BE SHOWN IN DETAIL ON PLAN. REFER TO SMACNA - HVAC DUCT CONSTRUCTION STANDARDS FOR REQUIRED DUCT TRANSITIONS AND FITTINGS.

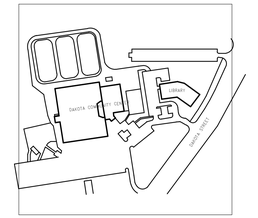
## KEY NOTES

1 REPAIR DUCT SEAM, RE-FASTEN DUCT PAN TO RECTANGULAR DUCT. SEAL DUCT FULL PERIMETER WITH DURODYNE DUCT SEALANT.
2 PROVIDE NEW BACKDRAFT DAMPER IN DUCT AT ROOF PENETRATION.
3 REMOVE DUCT INSULATION FROM FAN DISCHARGE TO ROOF PENETRATION AND REPLACE WITH NEW 50 MM FOIL FACED FIBERGLASS INSULATION. RESEAL ALL DUCT JOINTS WITH DURODYNE DUCT SEALANT BEFORE INSULATING. VAPOUR SEAL JOINTS AND EDGES WITH ALUMINUM DUCT TAPE.
4 REPLACE DUCT TERMINATION ABOVE ROOF FROM UNDERSIDE OF ROOF. TERMINATE WITH NEW GOOSENECK AND PROVIDE NEW BRACING. REPLACE DUCT PENETRATION SEAL AT ROOF. REFER TO DETAILS.
5 NEW CEILING FAN LOCATED IN CEILING SPACE, ATTACH TO UNDERSIDE OF BUILDING BEAM. 900MM (36") CEILING FAN, 7000 CFM CAPACITY, 80 WATTS. PROVIDE WITH SINGLE DISCONNECT IN CEILING SPACE ON NEAREST WALL, 300 MM ABOVE CEILING TILE. LABEL SWITCH. WIRE FAN FOR DOWNDRAFT AIRFLOW. LOCATE FAN TO BEST SUITABLE LOCATION ALONG BEAM. CEILING GRID WIRE INTERFERES WITH INSTALLATION, RELOCATE WIRE ATTACHMENTS, REFER TO DETAIL.
6 PANEL NA 225A 120/208V 3PH 4W 42 CCT CUTLER HAMMER QL442225 LOCATED ON SECOND FLOOR MECHANICAL ROOM 220. WIRE 2C #12 AWG BX. REPLACE AN EXISTING 15A/1P FULL SIZED BREAKER WITH A DUAL 15A/1P MINI BREAKER.

## HVAC LEGEND

| | |
|---|---|
| | SUPPLY AIR/OUTSIDE AIR DUCT RISER |
| | RETURN AIR/EXHAUST AIR DUCT RISER |
| | THERMAL INSULATION |
| ? | KEY NOTE |

KEY PLAN/DRAWING NOTES




The General Contractor shall check & verify all dimensions and report any errors or omissions to the designers.

| | | | |
|---|---|---|---|
| 0 | 2017-02-27 | Issued for Construction | |

APEGM
Certificate of Authorization
Epp Siepman Engineering Inc.
No. 4035

PROVINCE OF MANITOBA D. A. SIEPMAN Member 23527 2017-02-27 REGISTERED PROFESSIONAL ENGINEER

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Sheet Title
SECOND FLOOR PARTIAL PLAN - HVAC

| File | Date |
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| 17039 | 2016-08-16 |
| Design: DR | Drawn: DR |
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**M1**