

# GOVERNMENT OF CANADA

## Multi Purpose Training Facility Mechanical Renovation

### REGINA, SASKATCHEWAN

---

#### ISSUED FOR TENDER, DECEMBER 19, 2016

number  
**10**

#### ARCHITECTURAL

NUMBER TEN ARCHITECTURAL GROUP - 310 - 115 BANNATYNE AVE. - WINNIPEG, MB. R3B 0R3

- A1.0 TITLE SHEET
- A1.1 MAIN FLOOR DEMOLITION PLAN
- A1.2 MAIN FLOOR CONSTRUCTION PLAN
- A1.3 SECOND FLOOR CONSTRUCTION PLAN

#### STRUCTURAL

BBK STRUCTURAL ENGINEERS, BROWNLEE BEATON KREKE - 3611 PASQUA STREET - REGINA, SK, S4S 6W8

- S1 MASONRY OPENINGS

#### MECHANICAL

R J ENGLAND CONSULTING LTD. - 400-4010 PASQUA STREET - REGINA, SK, S4S 7B9

- M-0 MECHANICAL LEGEND AND SCHEDULES
- M-1 MECHANICAL DEMOLITION PLAN EAST
- M-2 MECHANICAL DEMOLITION PLAN WEST
- M-3 MECHANICAL MAIN FLOOR VENTILATION EAST
- M-4 MECHANICAL MAIN FLOOR VENTILATION WEST
- M-5 MECHANICAL SECOND FLOOR VENTILATION
- M-6 MECHANICAL HEATING PLAN EAST AND SECTION VIEW
- M-7 MECHANICAL HEATING PLAN WEST
- M-8 MECHANICAL DETAILS - STEAM & HYDRONICS
- M-9 MECHANICAL DETAILS - VENTILATION

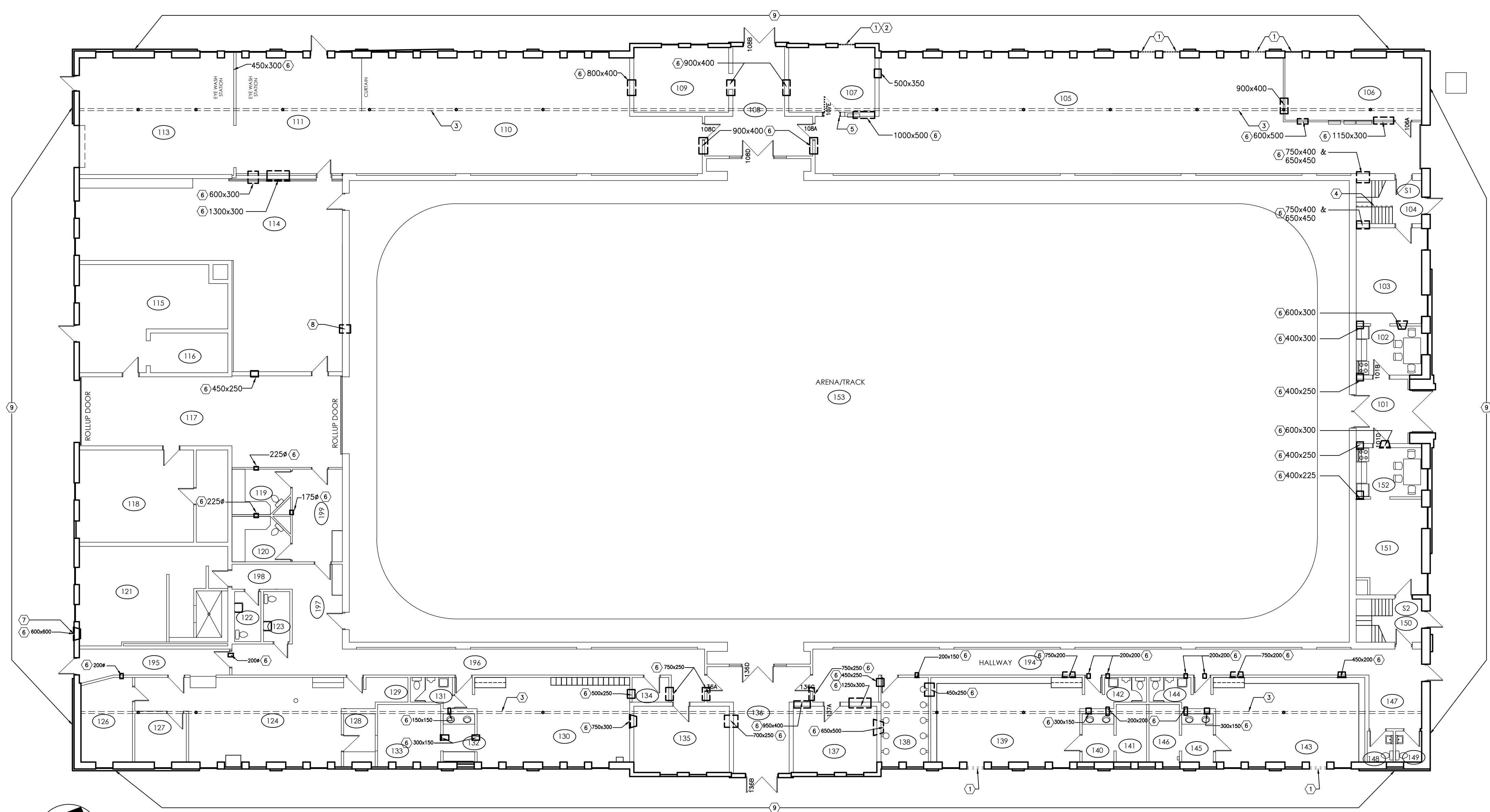
#### ELECTRICAL

RITENBURG & ASSOCIATES LTD. CONSULTING ELECTRICAL ENGINEERS - #200-2222 ALBERT ST. - REGINA, SK, S4P 2V2

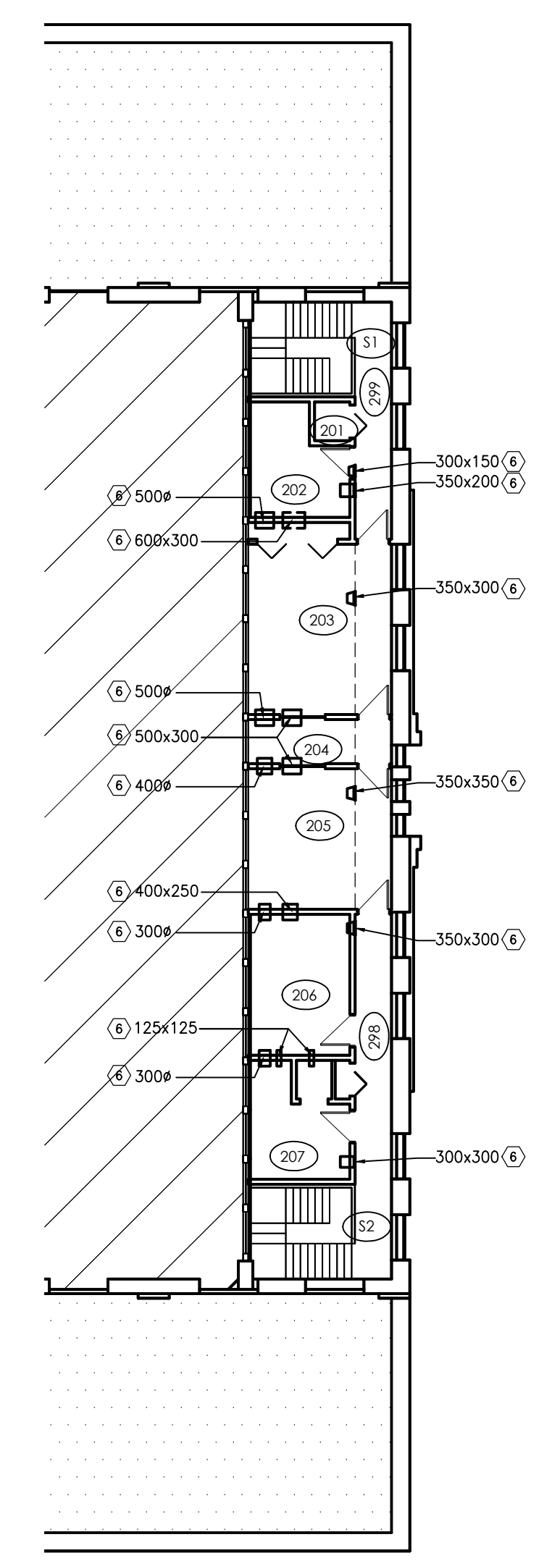
- E1 ELECTRICAL POWER & SYSTEMS PLAN & SYMBOL SCHEDULE
- E2 ELECTRICAL POWER & SYSTEMS PLAN & SYMBOL SCHEDULE
- E3 ELECTRICAL DISTRIBUTION AND SECOND FLOOR PLAN AND MOTOR & EQUIPMENT SCHEDULE

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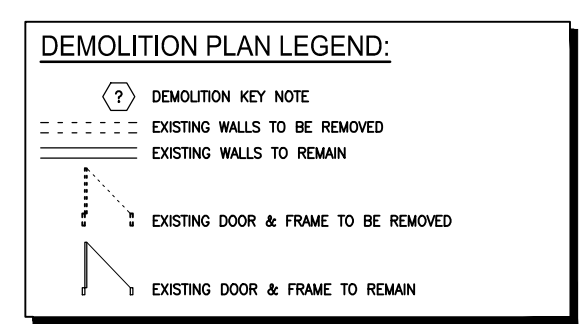
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CLIENT REVIEW	10-21-2016
CLIENT REVIEW / PRICING	12-02-2016
ISSUED FOR TENDER	12-19-2016



1 MAIN FLOOR DEMOLITION PLAN  
 A1.1 SCALE: 1:150



2 PART SECOND FLOOR DEMOLITION PLAN  
 A1.1 SCALE: 1:150



- DEMOLITION GENERAL NOTES:**
- CONFIRM ALL ITEMS TO BE RETURN TO OWNER PRIOR TO DEMOLITION.
  - PATCH & MAKE GOOD SURFACES AFFECTED BY DEMOLITION AND/OR NEW CONSTRUCTION READY TO RECEIVE NEW FINISHES INCLUDING MECHANICAL AND ELECTRICAL OPENINGS.
  - PATCH AND MAKE GOOD EXISTING SURFACES SCHEDULED TO REMAIN, AS REQUIRED TO RECEIVE NEW FINISHES. WHERE NO FINISHES ARE SPECIFIED, MATCH ADJACENT EXISTING FINISH.
  - ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND EXISTING CONDITIONS ARE TO BE REPORTED TO NUMBER TEN.
  - PATCH, REPAIR & PAINT ALL WALL OPENINGS WHERE DUCTS HAVE BEEN DEMOLISHED.
  - PROVIDE STEEL ANGLE LINTELS AT NEW MASONRY OPENINGS.
  - PROVIDE NEW WALL OPENINGS WHERE NEW DUCTWORK PENETRATES. PATCH, REPAIR & PAINT AS REQUIRED. REFER TO MECHANICAL AND STRUCTURAL DRAWINGS FOR LOCATIONS.
  - STORE AND PROTECT FROM DAMAGE ALL MATERIAL TO BE RECYCLED.
  - COORDINATE ALL DEMOLITION, CONSTRUCTION, SALVAGE, RE-USE, ETC. WITH MECHANICAL, ELECTRICAL, & STRUCTURAL.

- DEMOLITION KEY NOTES:**
- (1) DEMOLISH EXISTING WINDOW TO ALLOW FOR INSTALLATION OF NEW MECHANICAL LOUVER.
  - (2) EXPAND EXISTING MASONRY OPENING TO BE 990 WIDE X 2235 HIGH.
  - (3) LINE OF BEAM ABOVE.
  - (4) DEMOLISH EXISTING WALL AND DOOR BELOW STAIR.
  - (5) DEMOLISH EXISTING DOOR & FRAME AND EXPAND OPENING TO SUIT NEW DOOR.
  - (6) NEW OPENING IN EXISTING WALL FOR MECHANICAL DUCT. COORDINATE LOCATION, SIZE & PENETRATING WITH STRUCTURAL AND MECHANICAL DRAWINGS.
  - (7) EXPAND EXISTING MASONRY OPENING TO BE SUIT NEW EXHAUST GRILLE.
  - (8) RE-INSTALL EXISTING MASONRY OPENING WHERE DUCT TO BE DEMOLISHED. MATCH EXISTING WALL CONSTRUCTION.
  - (9) EXISTING ATTIC VENTS, APPROXIMATELY 40 LOCATIONS AROUND PERIMETER OF BUILDING. REMOVE LOUVER AND REINSTALL AS PER CONSTRUCTION NOTE 12.

**number TEN architectural group**  
 Winnipeg Office 204 942.0981  
 Victoria Office 250 360.2106  
 architecture • interior design • planning

GOVERNMENT OF CANADA  
 Multi Purpose Training Facility  
 Mechanical Renovation  
 Regina, SK.

project  
 MAIN FLOOR DEMOLITION PLAN

sheet title

consultant  
  
 seal  
 drawn by: MS  
 checked by: MF  
 project no. 2016041.01

scale: 1:150  
 date: Dec 19/16  
 sheet no. **A1.1**

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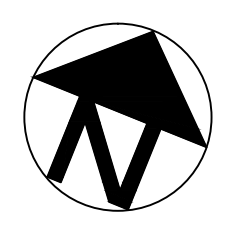
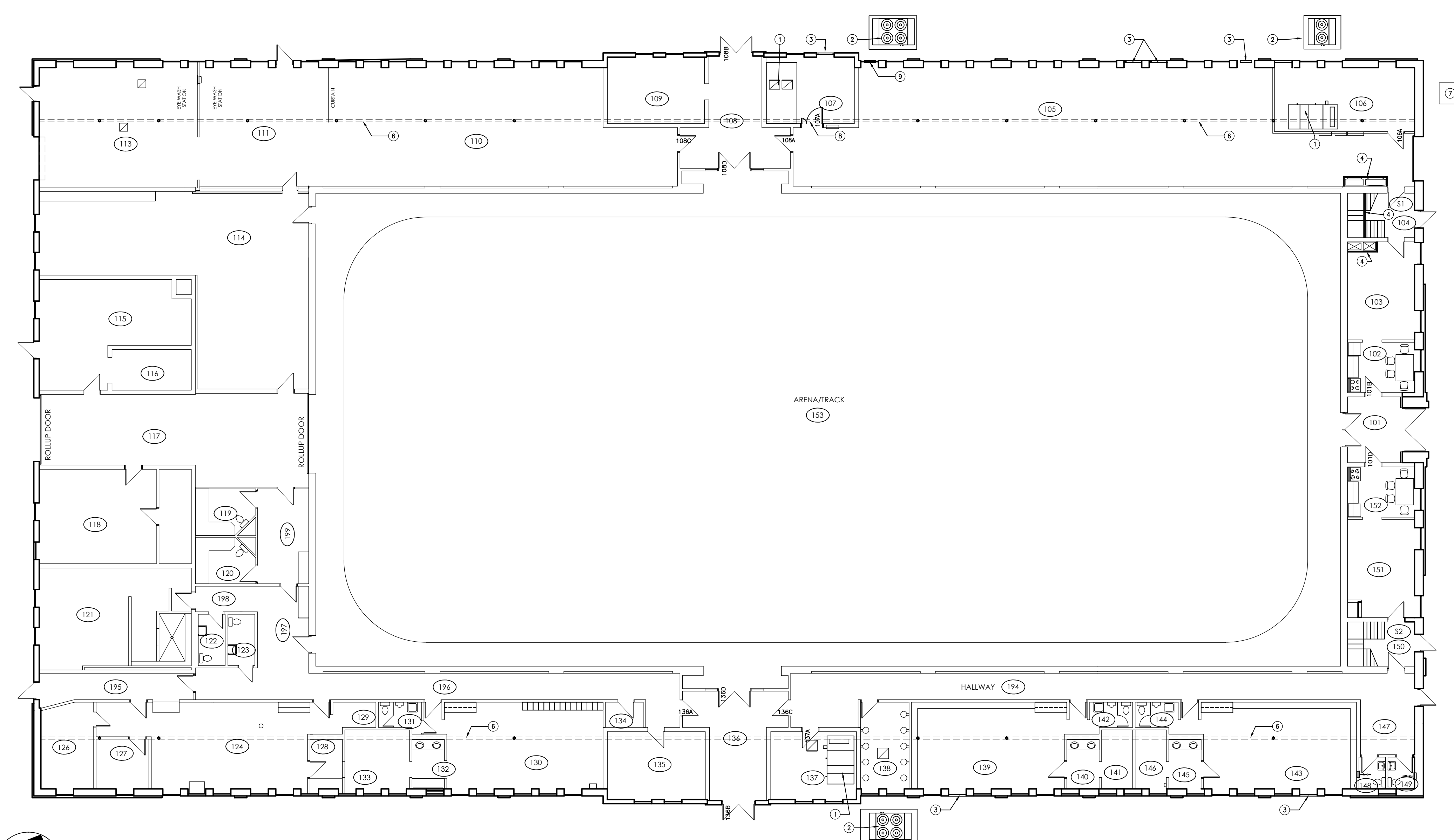
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**CONSTRUCTION PLAN LEGEND:**

- ⑦ CONSTRUCTION KEY NOTE
- NEW DOOR & FRAME
- EXISTING DOOR & FRAME TO REMAIN

- GENERAL NOTES:**
- CONFIRM ALL ITEMS TO BE RETURN TO OWNER PRIOR TO DEMOLITION.
  - PATCH & MAKE GOOD SURFACES AFFECTED BY DEMOLITION AND/OR NEW CONSTRUCTION READY TO RECEIVE NEW FINISHES INCLUDING MECHANICAL AND ELECTRICAL OPENINGS.
  - PATCH AND MAKE GOOD EXISTING SURFACES SCHEDULED TO REMAIN, AS REQUIRED TO RECEIVE NEW FINISH WHERE NO FINISHES ARE SPECIFIED, MATCH ADJACENT EXISTING FINISH.
  - ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND EXISTING CONDITIONS ARE TO BE REPORTED TO NUMBER TEN.
  - PATCH, REPAIR & PAINT ALL WALL OPENINGS WHERE DUCTS HAVE BEEN DEMOLISHED.
  - PROVIDE NEW WALL OPENINGS WHERE NEW DUCTWORK PENETRATES, PATCH, REPAIR & PAINT AS REQUIRED. REFER TO MECHANICAL AND STRUCTURAL DRAWINGS FOR LOCATIONS.
  - STORE AND PROTECT FROM DAMAGE ALL MATERIAL TO BE REINSTALLED.
  - COORDINATE ALL DEMOLITION, CONSTRUCTION, SALVAGE, RE-USE, ETC. WITH MECHANICAL, ELECTRICAL, & STRUCTURAL.
  - PAINT ALL EXPOSED DUCTWORK IN OCCUPIED AREAS.

- CONSTRUCTION KEY NOTES**
- ① NEW AIR HANDLING UNIT - REFER TO MECHANICAL DRAWINGS REFER TO STRUCTURAL FOR CONCRETE PAD
  - ② NEW CONDENSING UNIT C/W CONCRETE PAD - REFER TO MECHANICAL DRAWINGS.
  - ③ NEW LOUVER IN EXISTING WINDOW OPENING - REFER TO MECHANICAL DRAWINGS.
  - ④ 1 HOUR RATED SHIRT WALL DUCT ENCLOSURE, PAINTED, C/W RUBBER CODE BASE.
  - ⑤ NEW GOOSENECK THROUGH ROOF, PATCH AND MAKE GOOD ROOFING AS REQUIRED. REFER TO STRUCTURAL AND MECHANICAL.
  - ⑥ LINE OF EXISTING STEEL BEAM
  - ⑦ EXISTING TRANSFORMER.
  - ⑧ NEW HOLLOW METAL DOOR AND FRAME
  - ⑨ EXISTING LOUVER TO REMAIN, PROVIDE INSULATED CAP, RE MECHANICAL
  - ⑩ EXISTING GOOSENECK THROUGH ROOF
  - ⑪ LINE OF EXISTING BULKHEAD
  - ⑫ EXISTING ATTIC VENTS, APPROXIMATELY 40 LOCATIONS AROUND PERIMETER OF BUILDING -INFL WALL OPENING WITH 16 G.W.B., 38 STEEL STUDS, 1" EXTERIOR G.W.B., METAL FLASH WITH EXISTING INTERIOR WALL SURFACE. PAINT TO MATCH EXISTING -CALK AROUND PERIMETER OF EXTERIOR G.W.B. TO SEAL TO EXISTING WALL -INSTALL 50mm ROID INSULATION, SEAL AROUND INSULATION WITH EXPANDING FOAM INSULATION. -CLOSE OFF EXISTING LOUVER WITH SHEET METAL BACK PAN, INSTALL IN EXISTING OPENING, PAINT TO MATCH EXISTING AND CALK PERIMETER.



1 MAIN FLOOR CONSTRUCTION PLAN  
 A1.1 SCALE: 1:150

**number TEN architectural group** **number 10**  
 Winnipeg Office 204 942.0981  
 Victoria Office 250 360.2106  
 architecture • interior design • planning

GOVERNMENT OF CANADA  
 Multi Purpose Training Facility  
 Mechanical Renovation  
 Regina, SK.  
 project  
 MAIN FLOOR CONSTRUCTION PLAN

sheet title

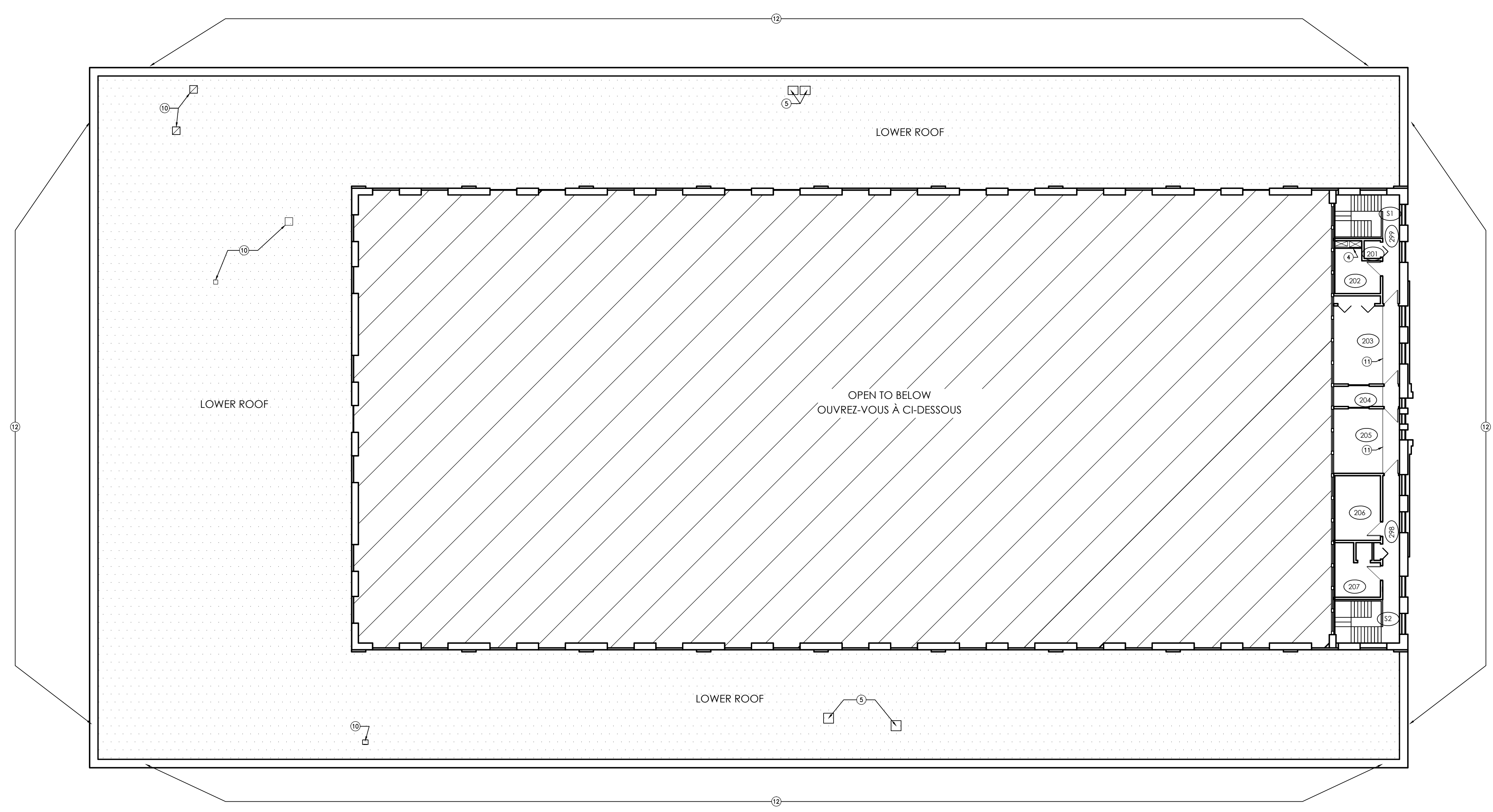
consultant



scale: 1:150  
 date: Dec 19/16  
 drawn by: MS  
 checked by: MF  
 project no. 2016041.01  
 sheet no. A1.2

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**CONSTRUCTION PLAN LEGEND:**

- ① CONSTRUCTION KEY NOTE
- NEW DOOR & FRAME
- EXISTING DOOR & FRAME TO REMAIN

**GENERAL NOTES:**

- CONFIRM ALL ITEMS TO BE RETURN TO OWNER PRIOR TO DEMOLITION.
- PATCH & MAKE GOOD SURFACES AFFECTED BY DEMOLITION AND/OR NEW CONSTRUCTION READY TO RECEIVE NEW FINISHES INCLUDING MECHANICAL AND ELECTRICAL OPENINGS.
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- PATCH, REPAIR & PAINT ALL WALL OPENINGS WHERE DUCTS HAVE BEEN ISOLATED.
- PROVIDE NEW WALL OPENINGS WHERE NEW OUTWORK PENETRATES. PATCH, REPAIR & PAINT AS REQUIRED. REFER TO MECHANICAL AND STRUCTURAL DRAWINGS FOR LOCATIONS.
- STORE AND PROTECT FROM DAMAGE ALL MATERIAL TO BE REINSTALLED.
- COORDINATE ALL DEMOLITION, CONSTRUCTION, SAVANDE, RE-USE, ETC. WITH MECHANICAL, ELECTRICAL, & STRUCTURAL.
- PAINT ALL EXPOSED DUCTWORK IN OCCUPIED AREAS.

**CONSTRUCTION KEY NOTES**

- ① NEW AIR HANDLING UNIT - REFER TO MECHANICAL DRAWINGS. REFER TO STRUCTURAL FOR CONCRETE PAD
- ② NEW CONDENSING UNIT C/W CONCRETE PAD - REFER TO MECHANICAL DRAWINGS
- ③ NEW LOUVER IN EXISTING WINDOW OPENING - REFER TO MECHANICAL DRAWINGS
- ④ 1 HOUR RATED SHAFT WALL DUCT ENCLOSURE. PAINTED C/W RUBBER GIVE BASE
- ⑤ NEW GOOSENECK THROUGH ROOF. PATCH AND MAKE GOOD ROOFING AS REQUIRED. REFER TO STRUCTURAL AND MECHANICAL.
- ⑥ LINE OF EXISTING STEEL BEAM
- ⑦ EXISTING TRANSFORMER
- ⑧ NEW YELLOW METAL DOOR AND FRAME
- ⑨ EXISTING LOUVER TO REMAIN. PROVIDE INSULATED CAP. RE. MECHANICAL
- ⑩ EXISTING GOOSENECK THROUGH ROOF
- ⑪ LINE OF EXISTING BRACKET
- ⑫ EXISTING ATTIC VENTS APPROXIMATELY 40 LOCATIONS AROUND PERIMETER OF BUILDING. -RE-FILL WALL OPENING WITH 1.2 G.I.B. OF STEEL STUDS, & 1.2 EXTERIOR G.I.B. INSTALL FLUSH WITH EXISTING INTERIOR WALL SURFACE. PAINT TO MATCH EXISTING. PERIMETER OF EXTERIOR G.I.B. TO SEAL TO EXISTING WALL. -INSTALL DOWN ROOF INSULATION. SEAL AROUND INSULATION WITH EXPANDING FOAM INSULATION. -CLOSE OFF EXISTING LOUVER WITH SHEET METAL BACK PAN. INSTALL IN EXISTING OPENING. PAINT TO MATCH EXISTING AND CALK PERIMETER.

1 SECOND FLOOR PLAN  
 A1.2 SCALE: 1:150

**number TEN architectural group** **number 10**  
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GOVERNMENT OF CANADA  
 Multi Purpose Training Facility  
 Mechanical Renovation  
 Regina, SK.  
 project SECOND FLOOR CONSTRUCTION PLAN

sheet title

consultant

scale: 1:150  
 date: Dec 19/16  
 drawn by: MS  
 checked by: MF  
 project no. 2016041.01  
 sheet no. A1.3

**DRAWING SPECIFICATIONS**

**DIVISION 1 – GENERAL REQUIREMENTS**

**1.1 General Notes**

.1 General Specifications – National Building Code of Canada 2010. Contractor shall read Structural drawings in conjunction with Architectural, Mechanical, and Electrical drawings. Unless noted otherwise, typical details apply throughout. All dimensions in millimetres.

**1.2 Discrepancies**

.1 Report any discrepancies to the Consultant before proceeding with the work.

**1.3 Mechanical Openings**

.1 Refer to mechanical drawings to confirm size and locations of all openings. Notify Consultant prior to proceeding if conditions differ significantly between drawings.

**1.4 Existing Construction**

.1 All information concerning existing construction has been taken from original drawings and site measurements. Contractor to confirm on site all existing dimensions, elevations and details prior to commencing work. Should information differ significantly from those shown, consult the Consultant prior to proceeding. All existing construction altered or damaged during course of work to be made good to match.

**1.5 Shop Drawings**

.1 Contractor to submit paper or pdf copies of premanufactured structural materials to the Consultant for review prior to fabrication.

**1.6 Temporary Works**

.1 Contractor is responsible for the design, construction and maintenance of all temporary works as may be required during the course of construction. Temporary works include, but are not limited to, shoring, scaffolding and bracing required to stabilize the structure until permanent structure is in place. Contractor to engage professional design services where required to comply with applicable Code requirements.

**DIVISION 5 – METALS**

**5.1 Structural Steel**

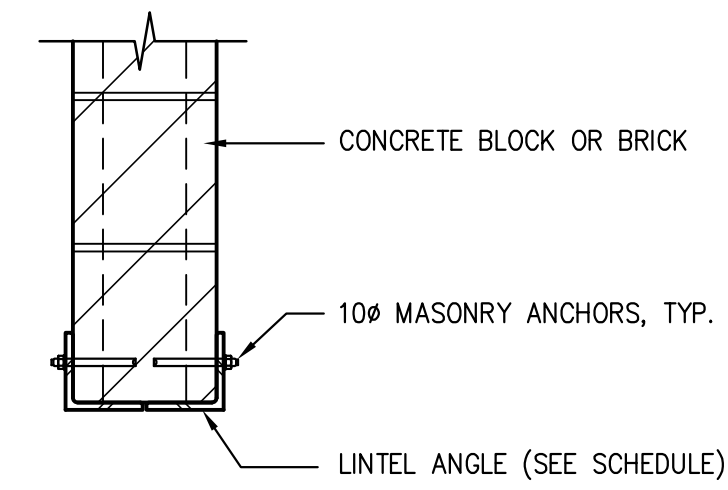
.1 Structural size shapes, bar size shapes and welded shapes to CSA C40.20/G40.21–13, 350 MPa Weldable Grade.  
 .2 Paint for primer as per CGSB L–GP–40d, or CISC/CPMA Standard 1073a. All primer to be grey unless approved otherwise.  
 .3 Fabrication and erection to CAN/CSA S16–14 and CISC Code of Standard Practice.

**5.2 Anchors** : Sizes as detailed on drawings. Standard embedment and installation as per Manufacturers Specifications.

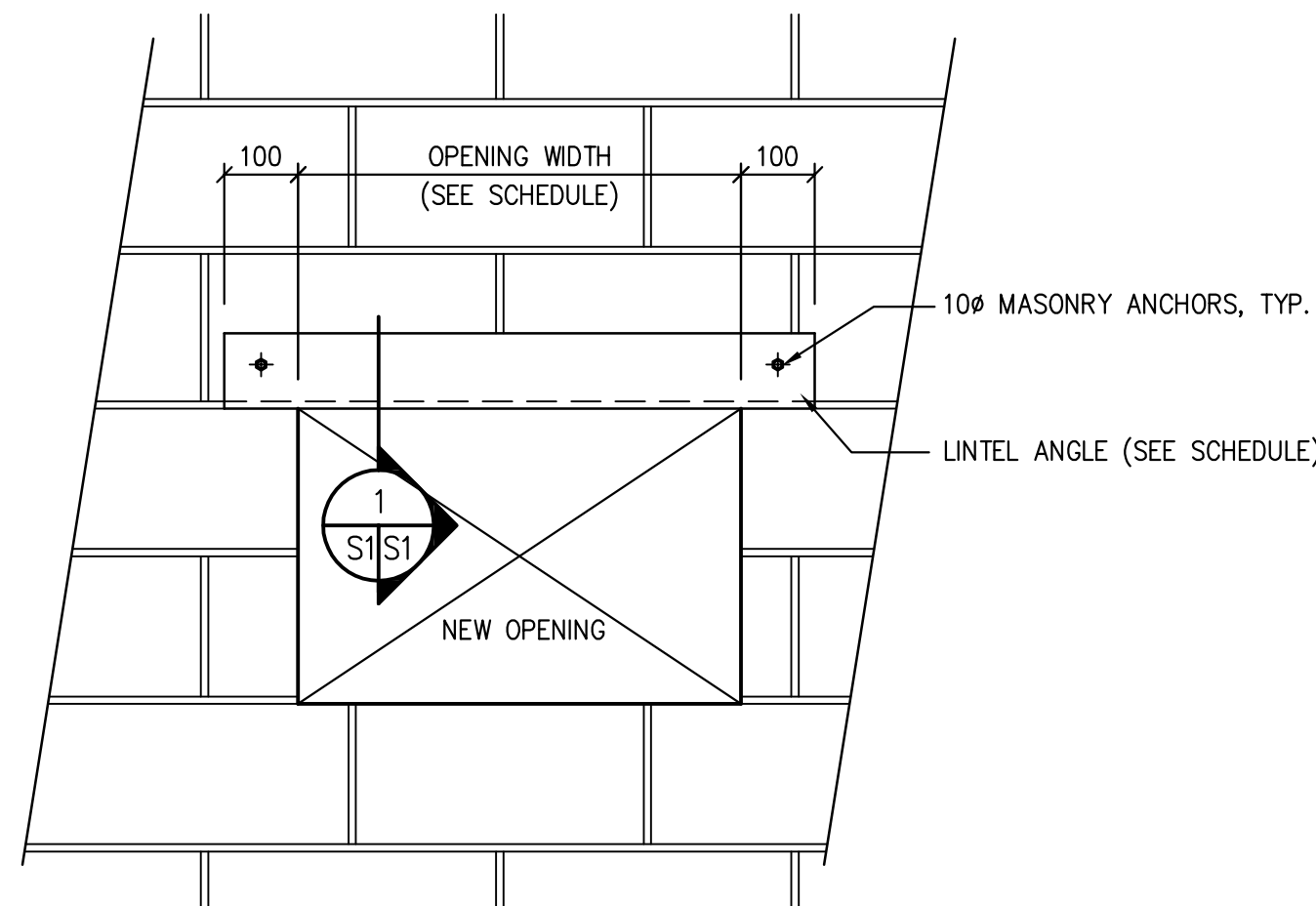
.1 Injection Adhesive Anchors for hollow or grout filled masonry to be Hilti HIT–HY 70 or approved alternate c/w specified rod, washer and nut.

CONCRETE BLOCK LINTEL SCHEDULE		
OPENING WIDTH	BLOCK ABOVE OPENING	LINTEL SIZE
0 TO 300	0 – 600	NONE
300 – 1500	NONE	NONE
300 – 1500	200 – 600	2 – L102x102x9.5

BRICK LINTEL SCHEDULE		
OPENING WIDTH	BRICK ABOVE OPENING	LINTEL SIZE
0 TO 300	0 – 600	2 – L89x89x6.35
300 – 1800	0 – 1000	2 – L102x102x9.5
300 – 900	1000 – 4000	2 – L102x102x9.5



1 LINTEL DETAIL  
1:20



2 OPENING ELEVATION  
1:20

**NOTES:**

1. ENSURE ANGLES ARE INSTALLED PRIOR TO CUTTING OPENINGS.

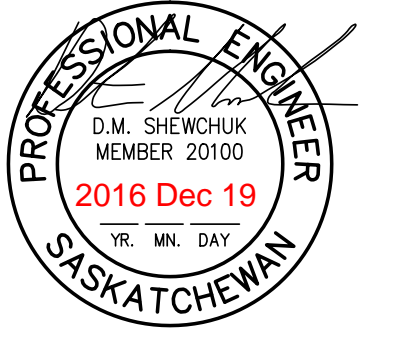
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REVISION NO.	DESCRIPTION	REVISION ISSUED/PLOTTED
1	Issued for Owners Review	08/11/16
2	Owner Review/Cost Estimate	02/12/16
3	Issued for Tender	12/19/16



**numberTEN**  
architectural group

winnipeg MB regina SK victoria BC  
204 942.0981 306 721.1501 250 360.2106

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GOVERNMENT OF CANADA  
Multi Purpose Training Facility  
Mechanical Renovation  
Regina, Sk.

project  
MASONRY OPENINGS

sheet title

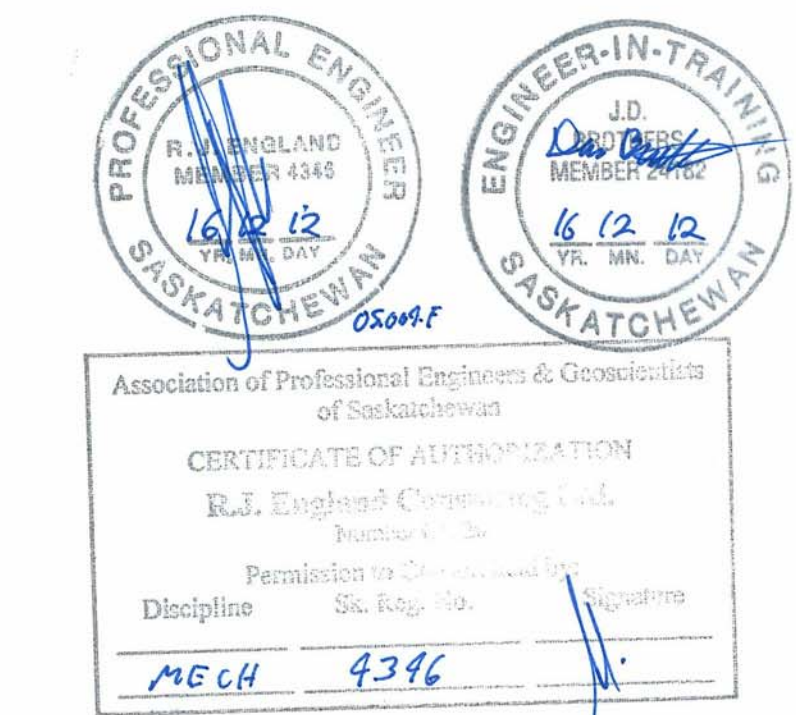
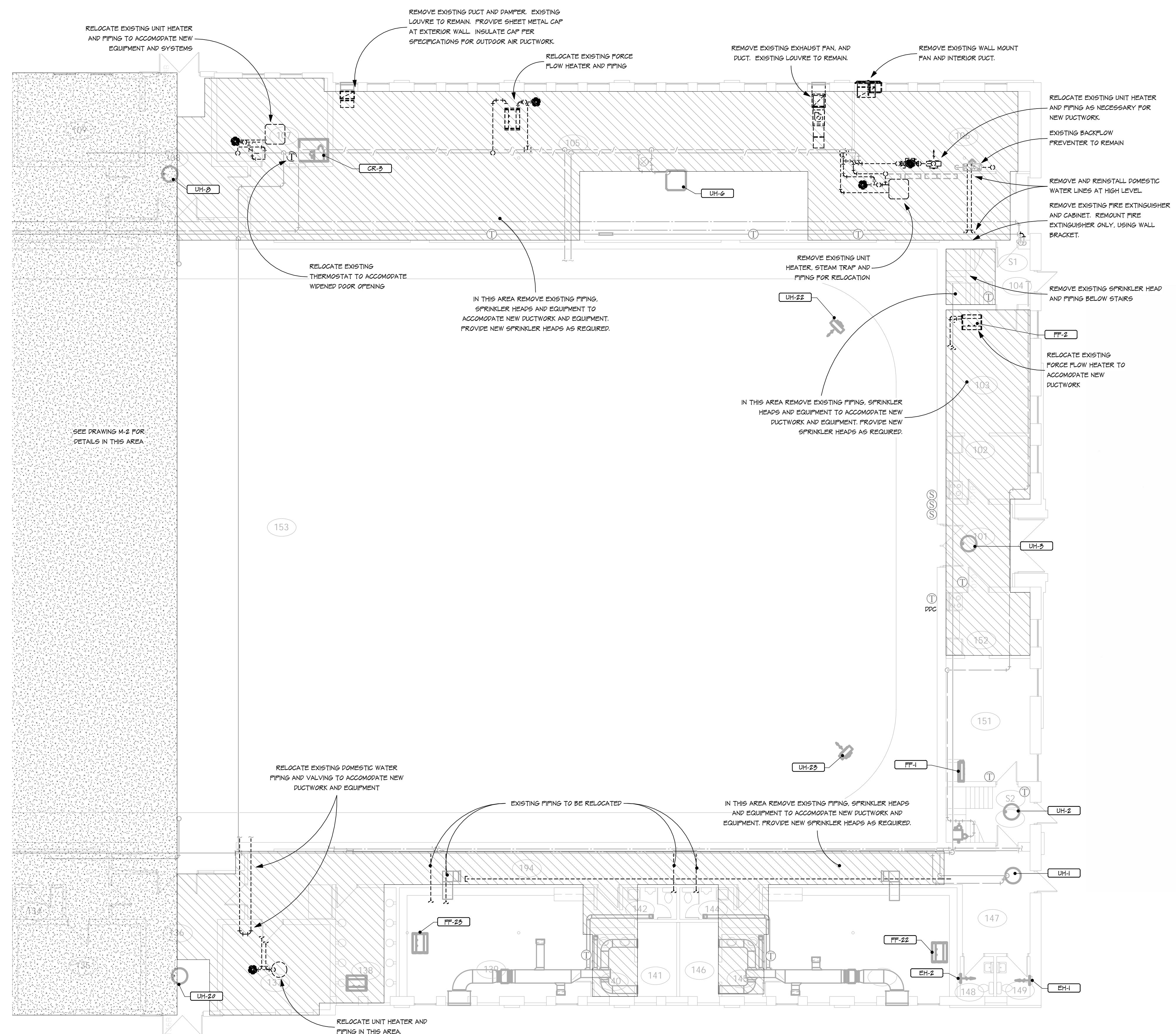
consultant

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date: Dec 19/16  
drawn by: C.G.  
checked by: D.S.  
project no. 2016041.01  
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1	ISSUED FOR TENDER		DECEMBER 19, 2016



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 Winnipeg Office 204 942.0981 Victoria Office 250 360.2106

architecture • interior design • planning

GOVERNMENT OF CANADA  
 Multi Purpose Training Facility  
 Mechanical Renovation  
 Regina, SK.

project  
 MECHANICAL  
 DEMOLITION PLAN EAST

sheet title  
**R J ENGLAND**  
 CONSULTING LTD.  
 407 - 4010 Praeger Street Regina, Saskatchewan S4S 0R9 CANADA 346 789 Telephone 304 544 5290 Facsimile 306 352 5280 info@england.ca

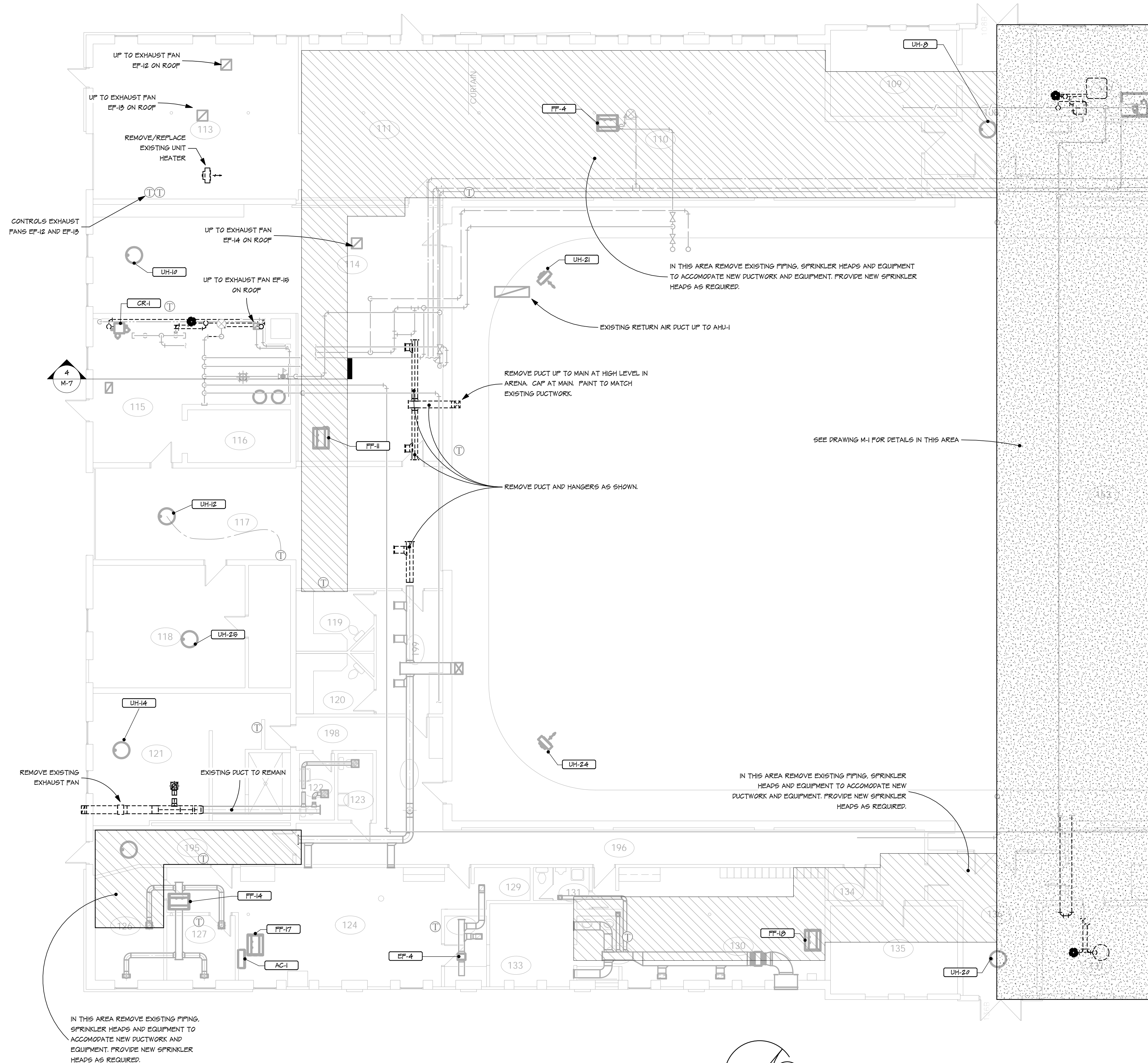
consultant



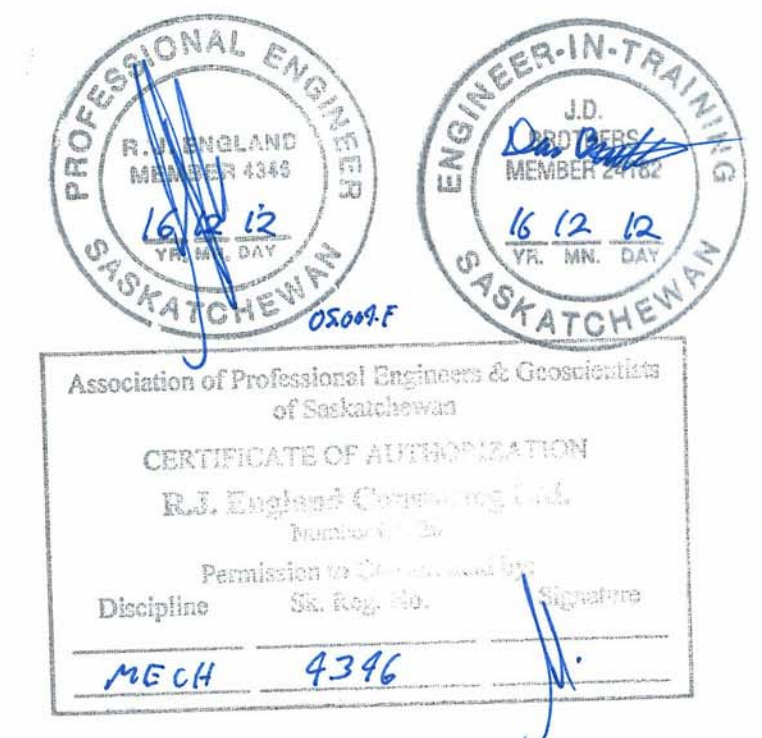
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 checked by: RJE  
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 scale: AS NOTED  
 date: 2016.12.05  
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0			DECEMBER 2, 2016
1	ISSUED FOR TENDER		DECEMBER 19, 2016



**MAIN FLOOR DEMOLITION PLAN - WEST**  
 1  
 M-2  
 1:100



**number TEN architectural group**  
 number 10  
 Winnipeg Office 204 942.0981  
 Victoria Office 250 360.2106  
 architecture • interior design • planning

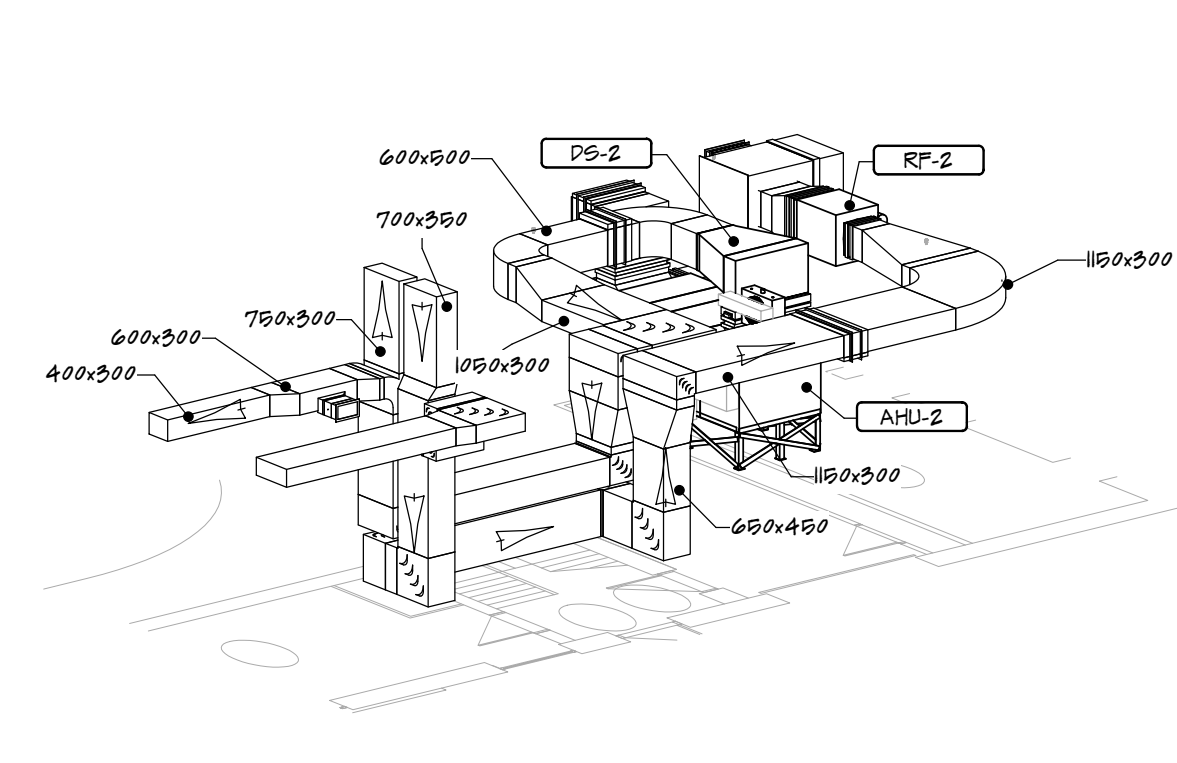
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 Regina, SK.  
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**R J ENGLAND**  
 CONSULTING LTD.  
 402 - 4110 Pasqua Street  
 Regina, Saskatchewan  
 CANADA S4S 7B9  
 Telephone: 304.544.5280  
 Facsimile: 304.352.5280  
 info@rjengland.com  
 consultant

seal  
 drawn by: RJE/JDB  
 checked by: RJE  
 project no. 05.004.F  
 scale: AS NOTED  
 date: 2016.12.05  
 sheet no. **M-2**

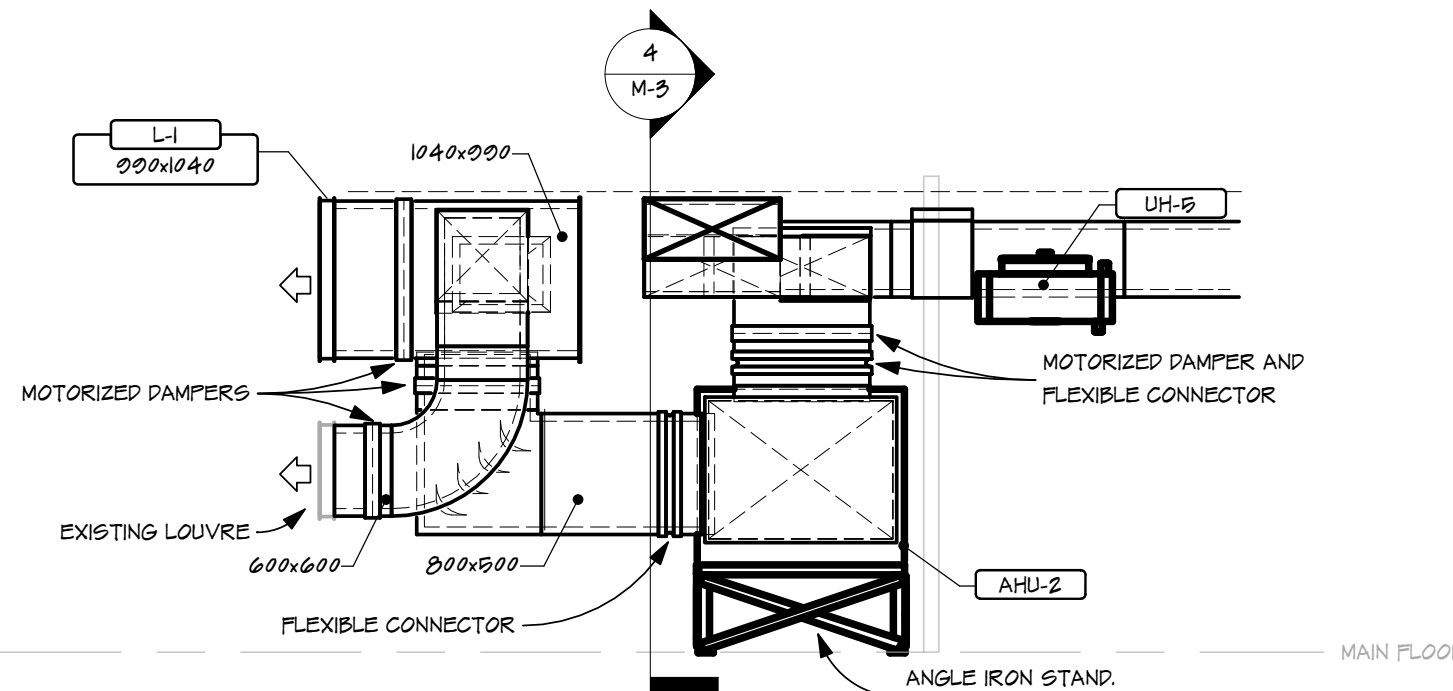


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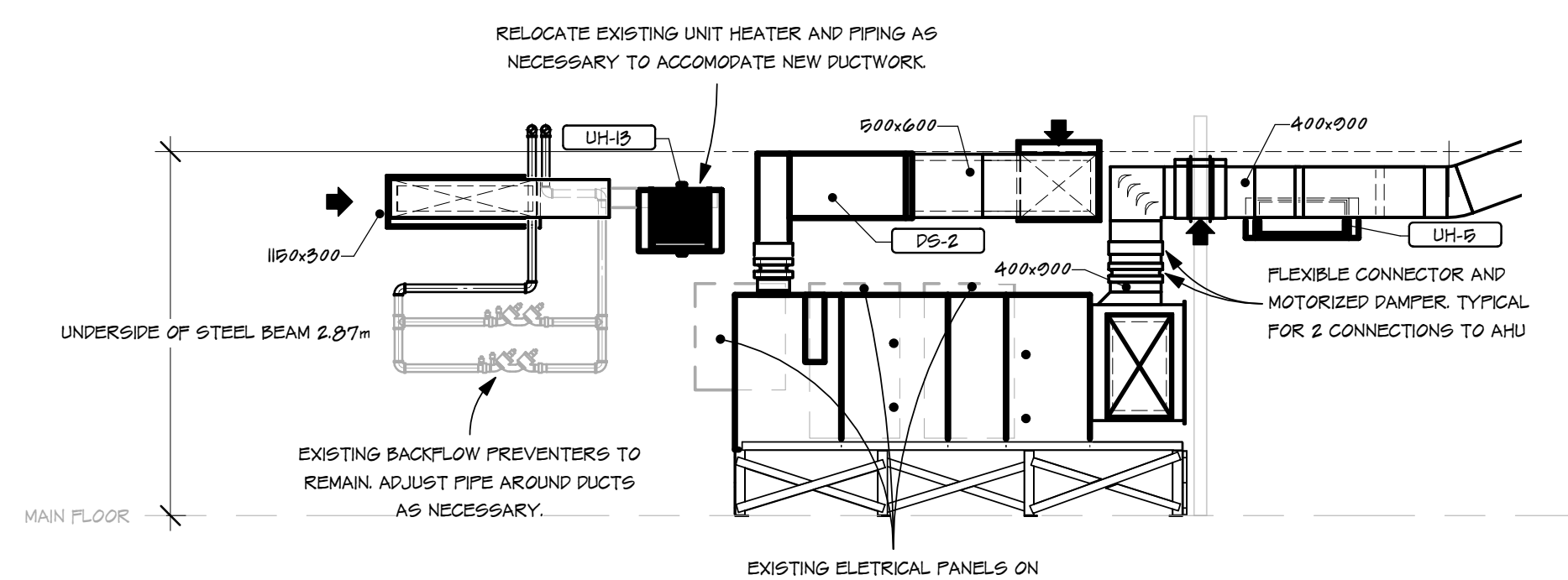
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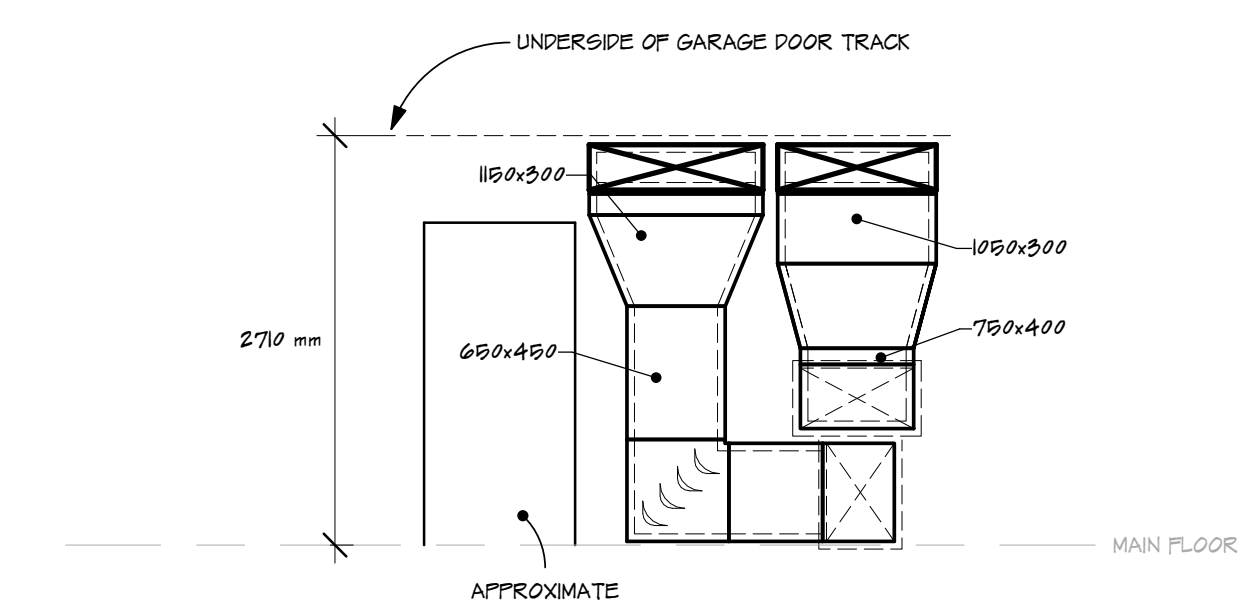
3 ISOMETRIC VIEW - AHU-2 DUCT ROUTE  
 NOT TO SCALE



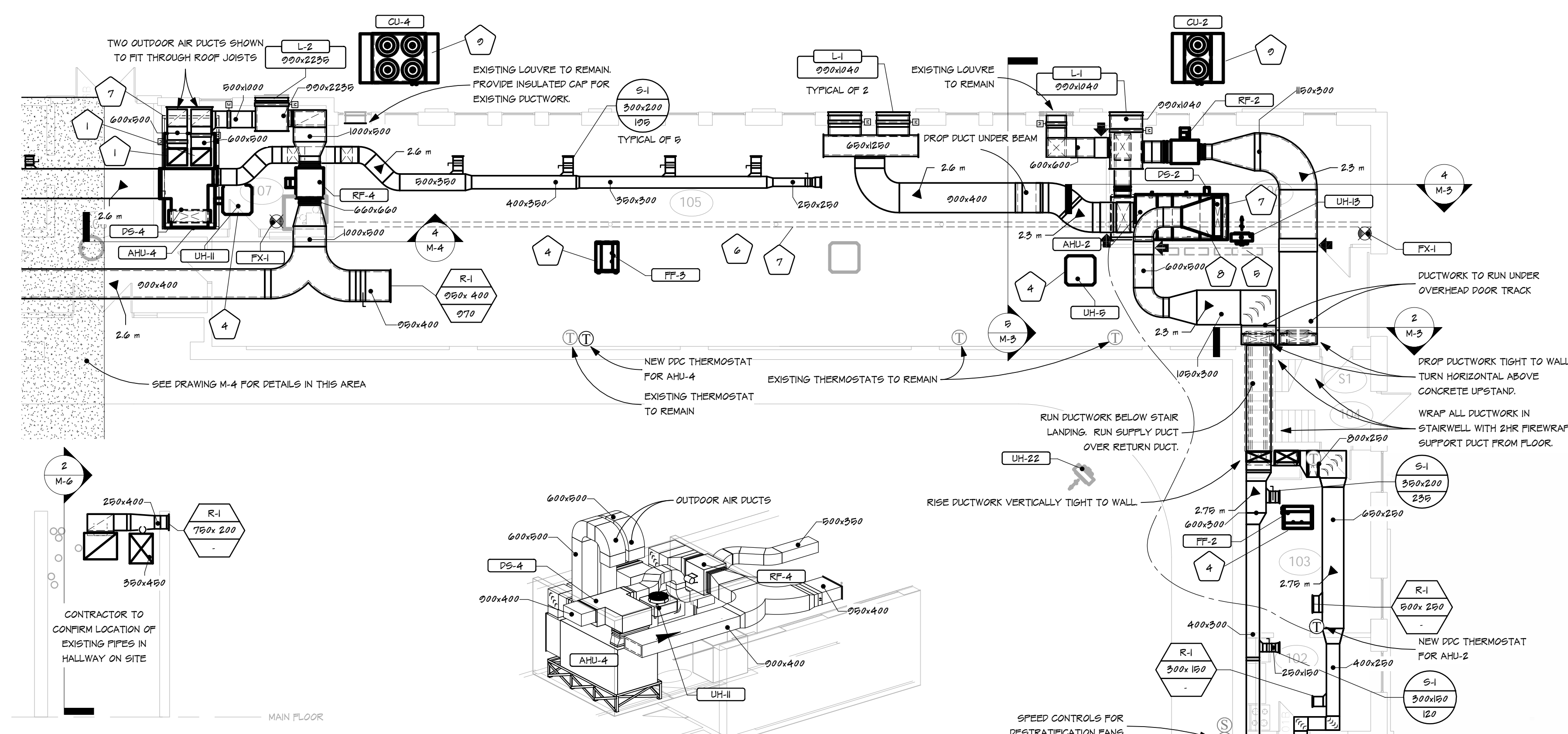
5 SECTION LOOKING EAST AHU-2  
 1:50



4 SECTION LOOKING NORTH AT AHU-2  
 1:50



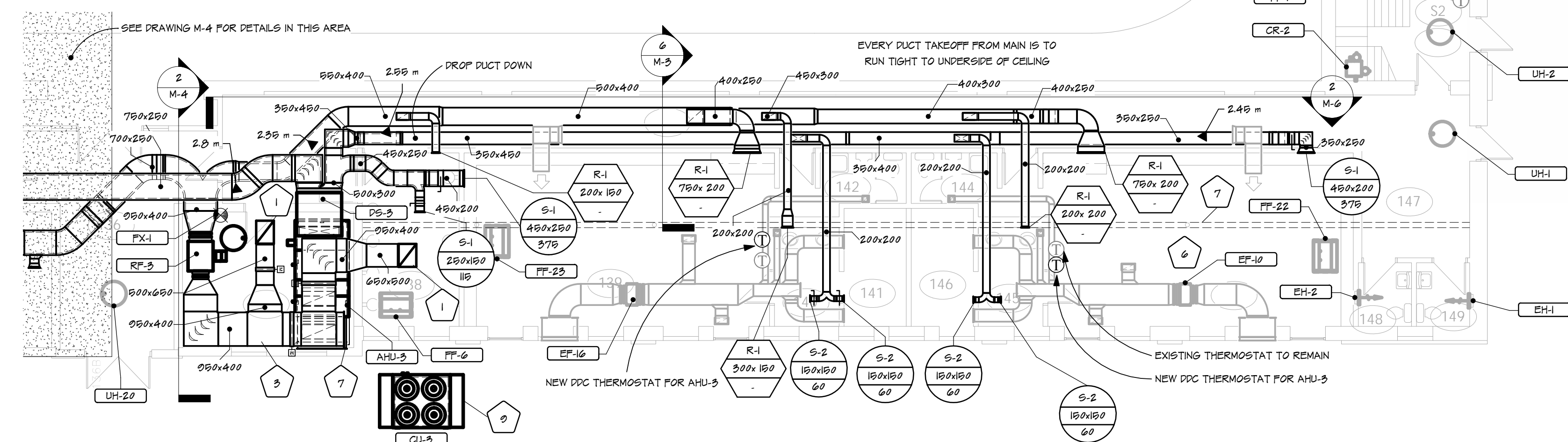
2 SECTION AT CORRIDOR OUTSIDE ELECTRICAL ROOM  
 1:50



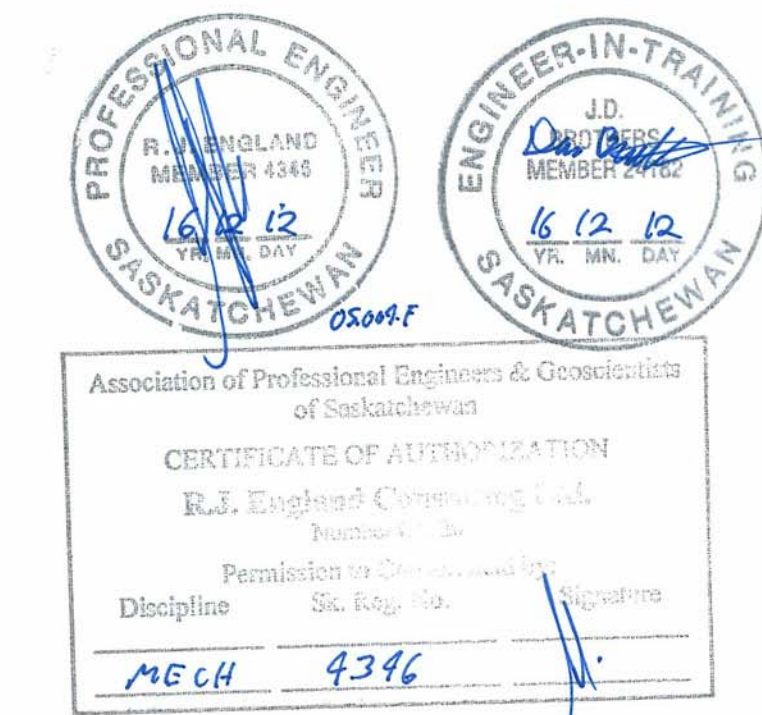
6 SECTION LOOKING EAST ALONG HALLWAY  
 1:50

7 ISOMETRIC VIEW - AHU-4

KEYNOTE LEGEND	
NOTE	DESCRIPTION
1	CONTRACTOR TO CONFIRM DUCT WILL FIT BETWEEN JOISTS UP TO GOOSENECK.
3	RELOCATED UNIT HEATER OR FORCE FLOW HEATER.
4	EXISTING ELECTRICAL PANELS (4) TO REMAIN.
5	UNDERSIDE OF CEILING AT APPROXIMATELY 3160mm AFF.
6	UNDERSIDE OF BEAM AT APPROXIMATELY 2040mm AFF.
7	MOUNT AHU ON ANGLE IRON STAND. SEE DETAIL 4/M-2.
8	DUCT SILENCER. SEE EQUIPMENT SCHEDULE.
9	CONDENSING UNIT ON STAND. SEE DETAIL 5/M-2.



1 MAIN FLOOR VENTILATION PLAN - EAST  
 1:100



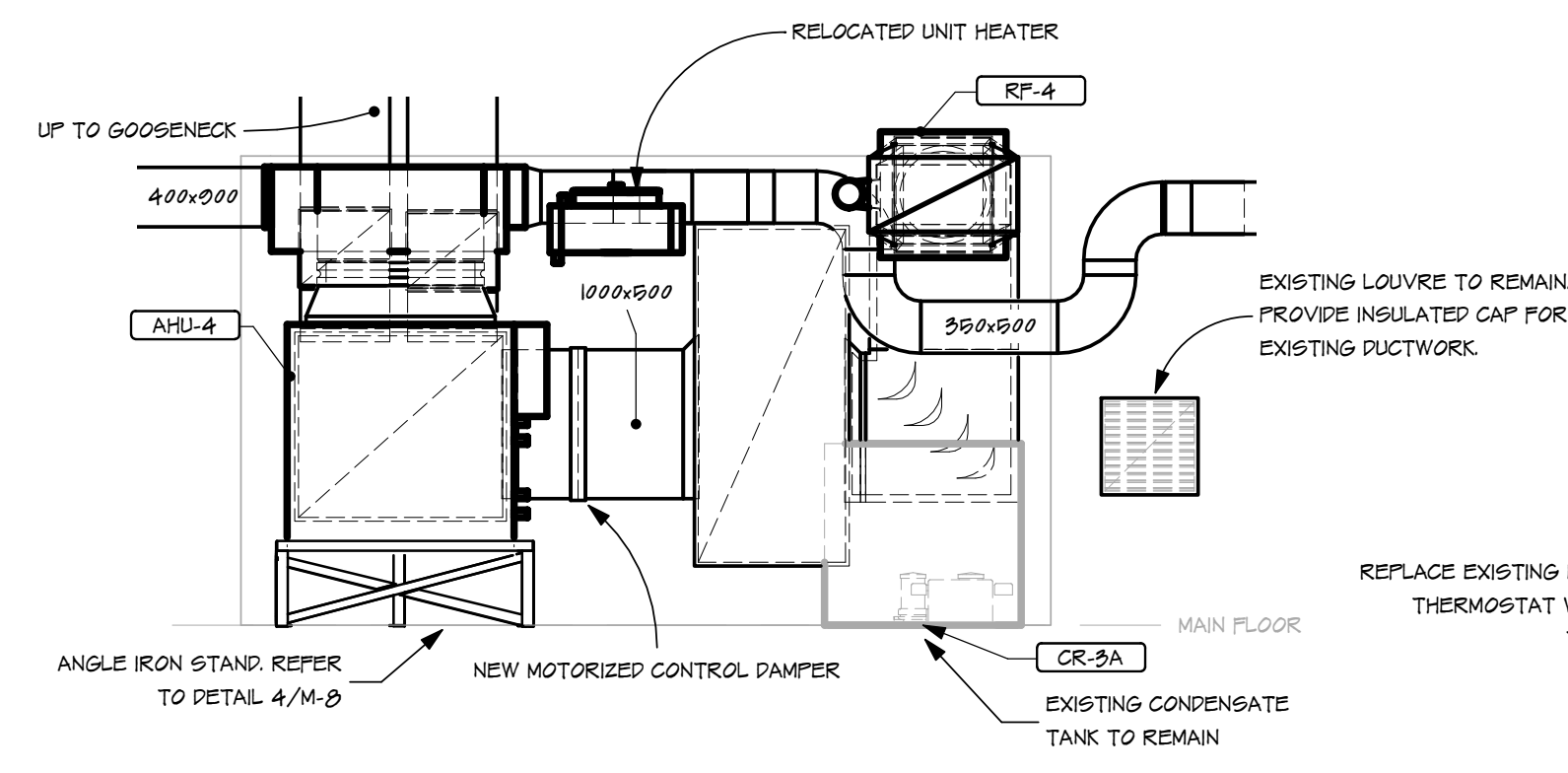
number TEN architectural group  
 Winnipeg Office 204.942.0981  
 Victoria Office 250.360.2106

GOVERNMENT OF CANADA  
 Multi Purpose Training Facility  
 Mechanical Renovation  
 Regina, SK.  
 project MECHANICAL  
 MAIN FLOOR VENTILATION EAST  
 sheet title R J ENGLAND CONSULTING LTD.  
 consultant

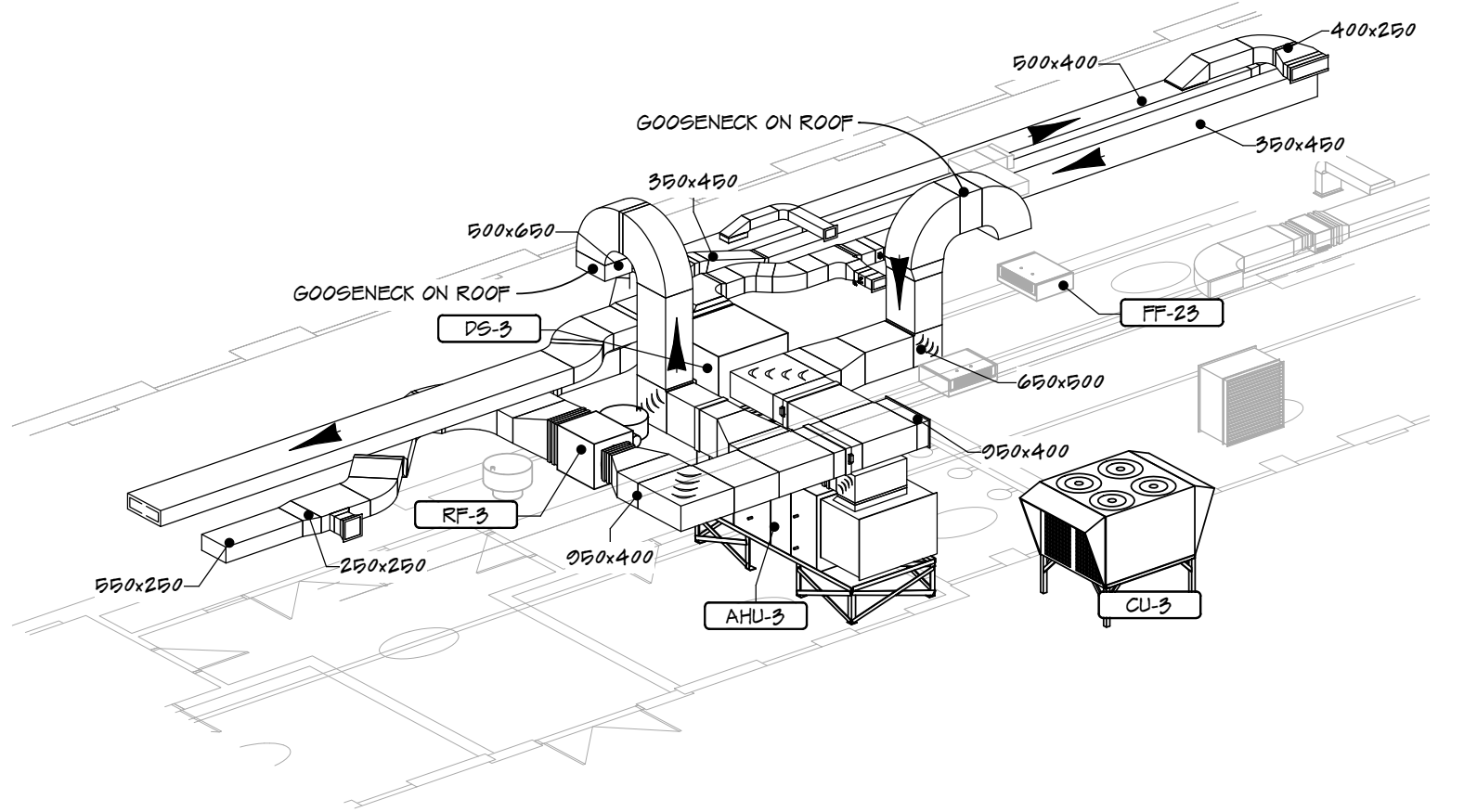
seal drawn by: RJE/JDB checked by: RJE project no. 05.004.F  
 scale: AS NOTED date: 2016.12.05 sheet no. M-3

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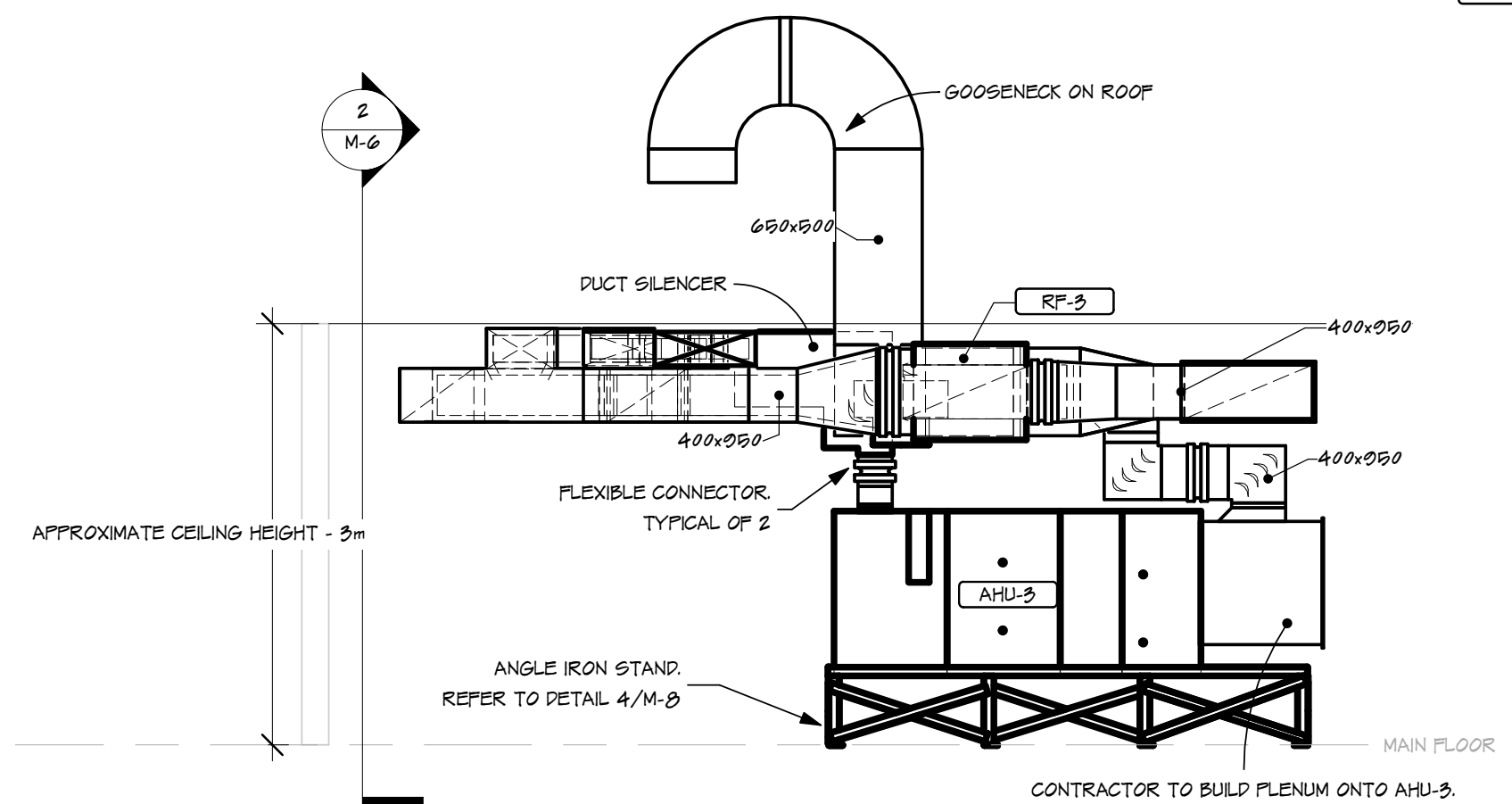
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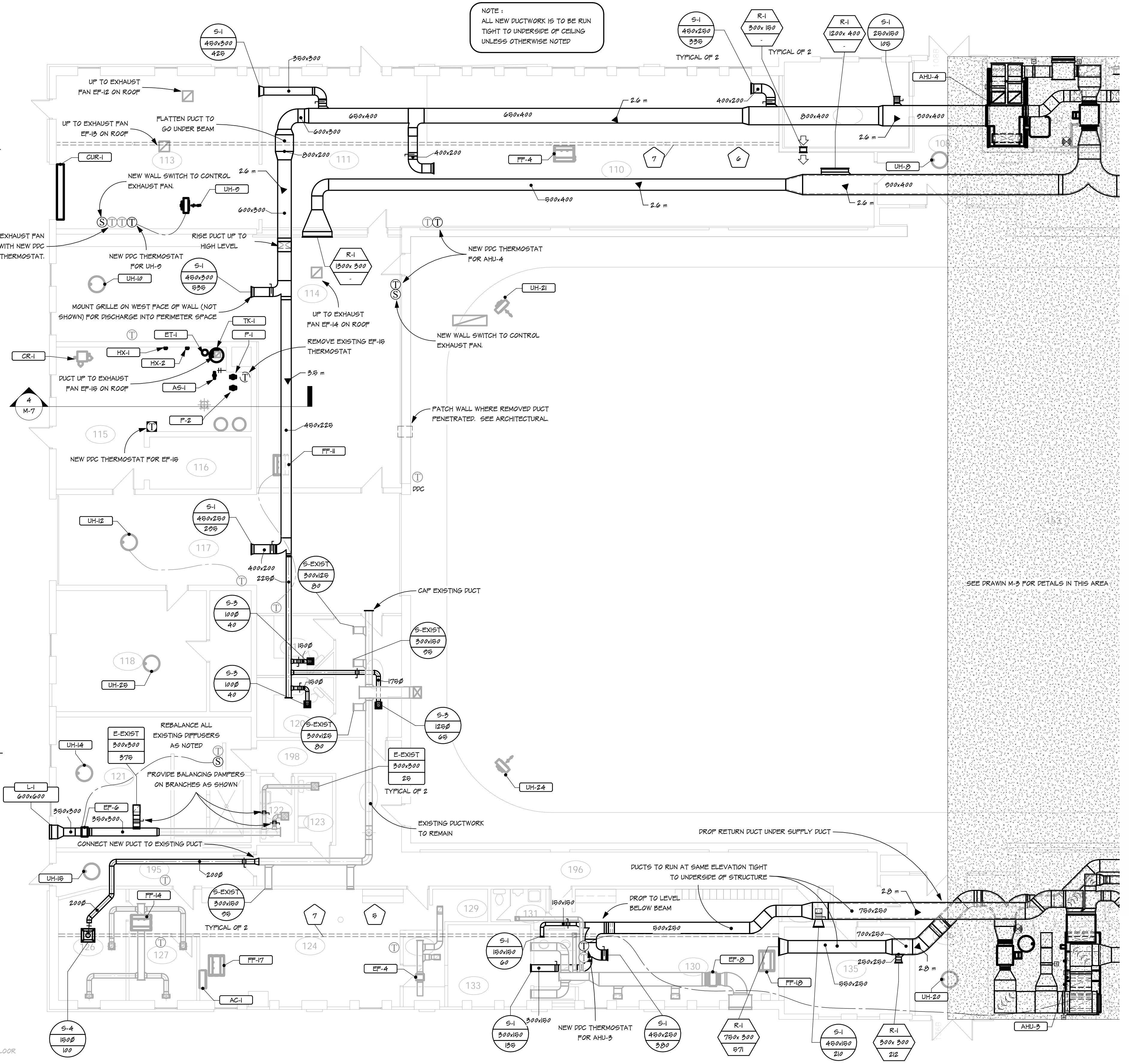
4 SECTION LOOKING NORTH AT AHU-4  
 M-4 1:50



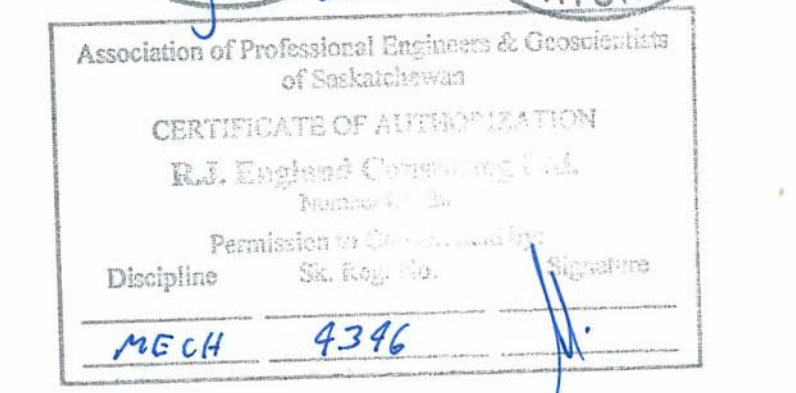
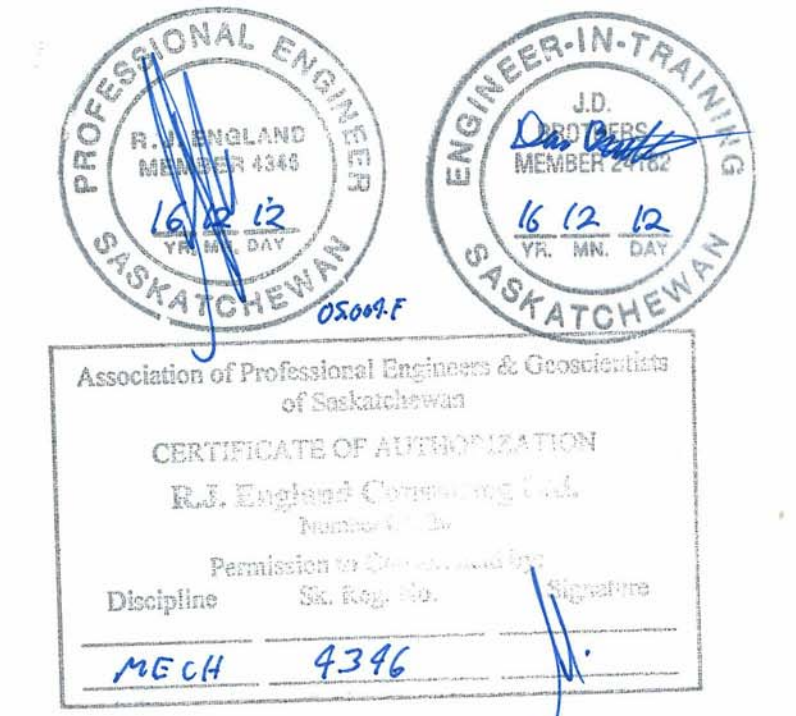
5 ISOMETRIC VIEW - AHU-3 DUCTWORK  
 M-4



2 SECTION LOOKING EAST AT AHU-3  
 M-4 1:50



1 MAIN FLOOR VENTILATION PLAN - WEST  
 M-4 1:100



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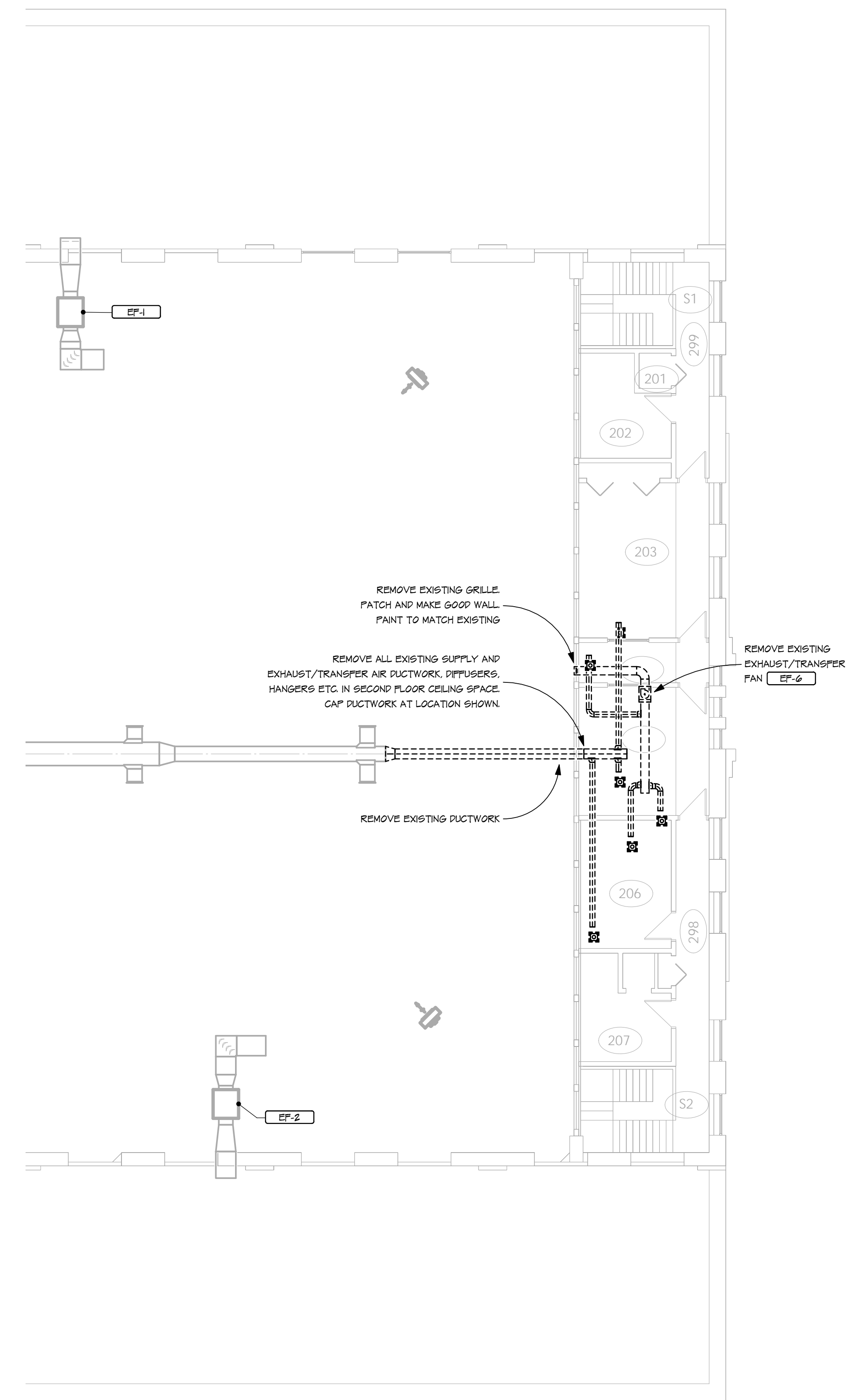
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 Multi Purpose Training Facility  
 Mechanical Renovation  
 Regina, SK.  
 project: MECHANICAL  
 MAIN FLOOR VENTILATION WEST  
 sheet title: R J ENGLAND CONSULTING LTD.  
 consultant

scale: AS NOTED  
 date: 2016.12.05  
 sheet no: M-4  
 drawn by: RJE/JDB  
 checked by: RJE  
 project no.: 05.004.F

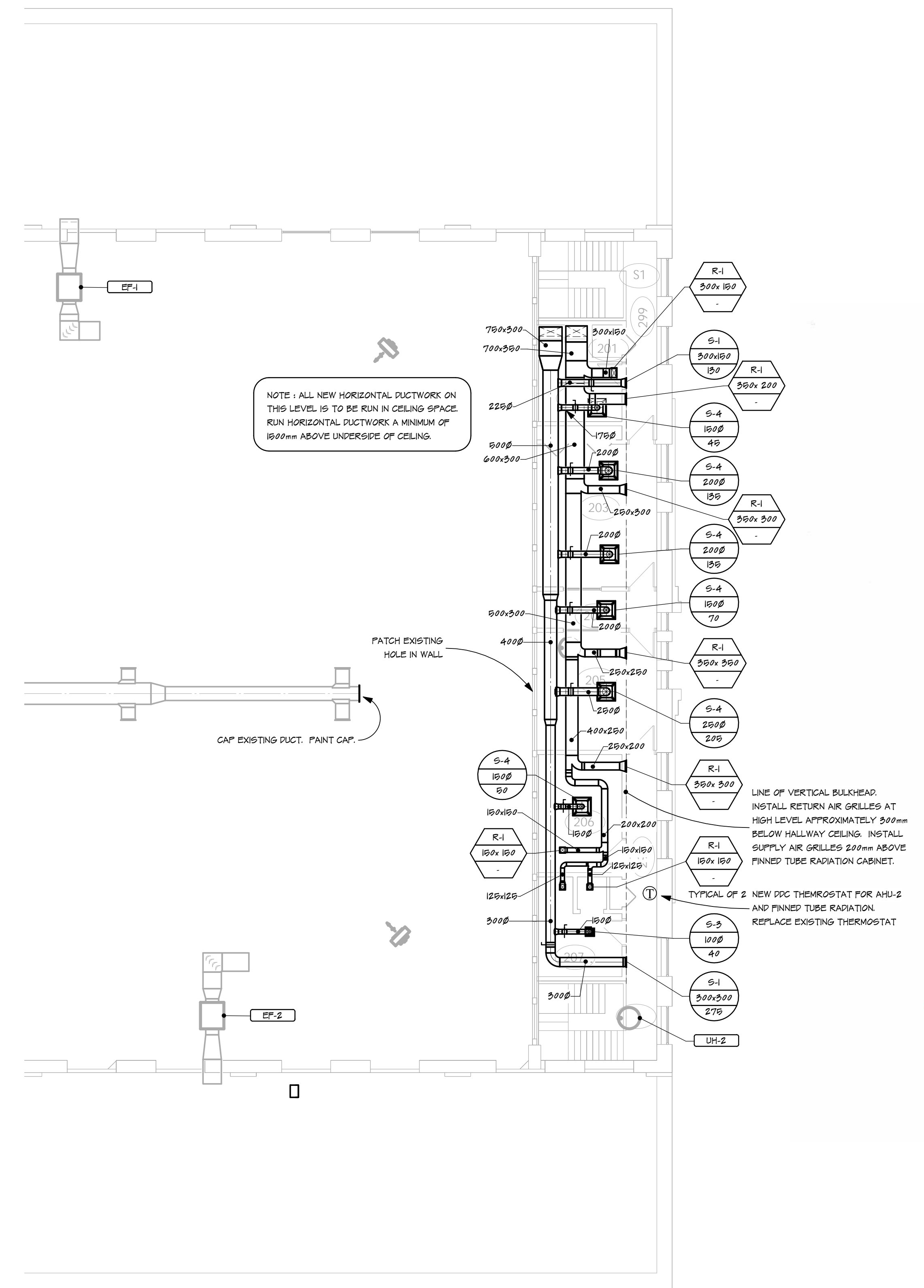
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2 SECOND FLOOR - DEMOLITION  
 M-5 1:100



1 SECOND FLOOR  
 M-5 1:100

PROFESSIONAL ENGINEER  
 R. J. ENGLAND  
 MEMBER 4546  
 16/12/12  
 YR. MK. DAY

ENGINEER-IN-TRAINING  
 J.D. ENGLAND  
 MEMBER 5112  
 16/12/12  
 YR. MK. DAY

Association of Professional Engineers & Geoscientists of Saskatchewan  
 CERTIFICATE OF AUTHORIZATION  
 R.J. England Consulting Ltd.  
 Number: 36  
 Discipline: Mechanical  
 Signature: MEGH 4396

number TEN number  
 architectural group 10

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GOVERNMENT OF CANADA  
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 Mechanical Renovation  
 Regina, SK

project  
 MECHANICAL  
 SECOND FLOOR VENTILATION

sheet title  
 R J ENGLAND CONSULTING LTD.  
 400 - 4010 Pasqua Street Regina, Saskatchewan CANADA S4S 7B9 Telephone: 304.544.5280 Facsimile: 304.352.5280 info@rjengland.com

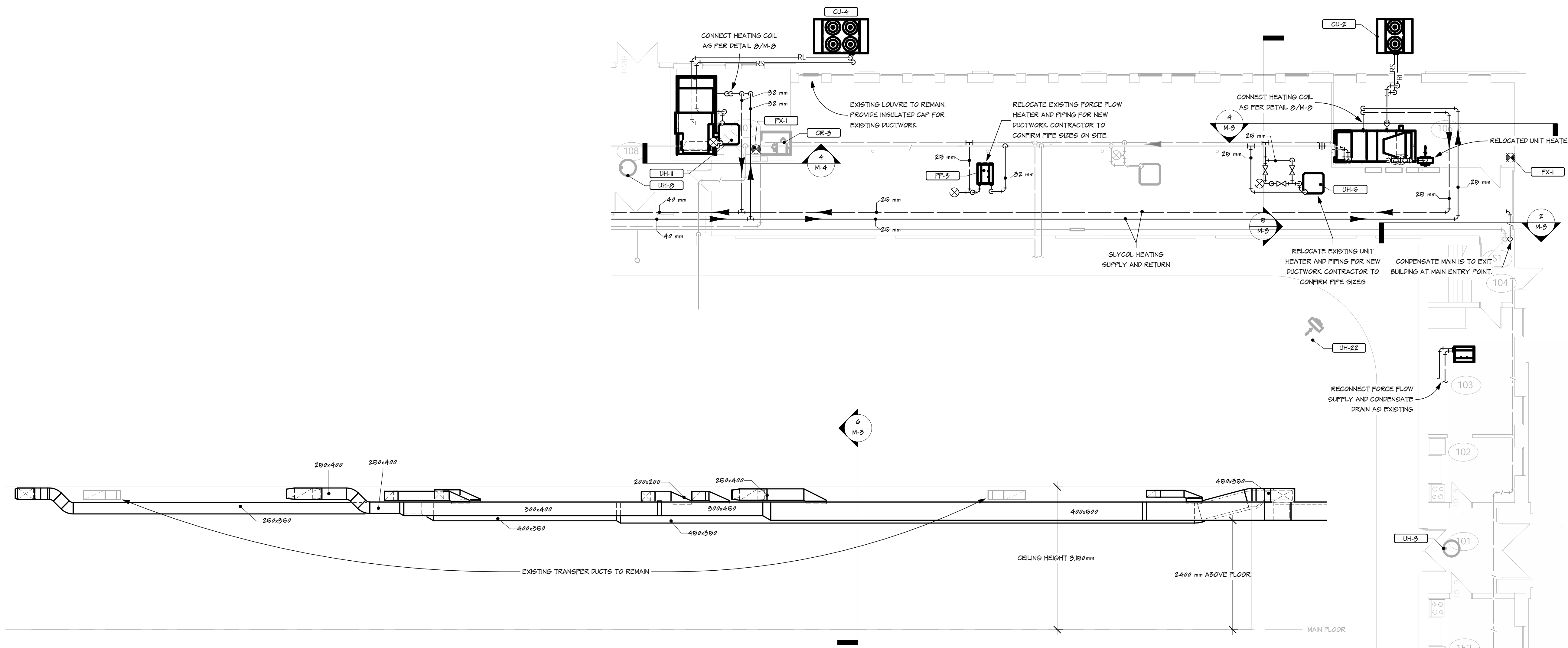
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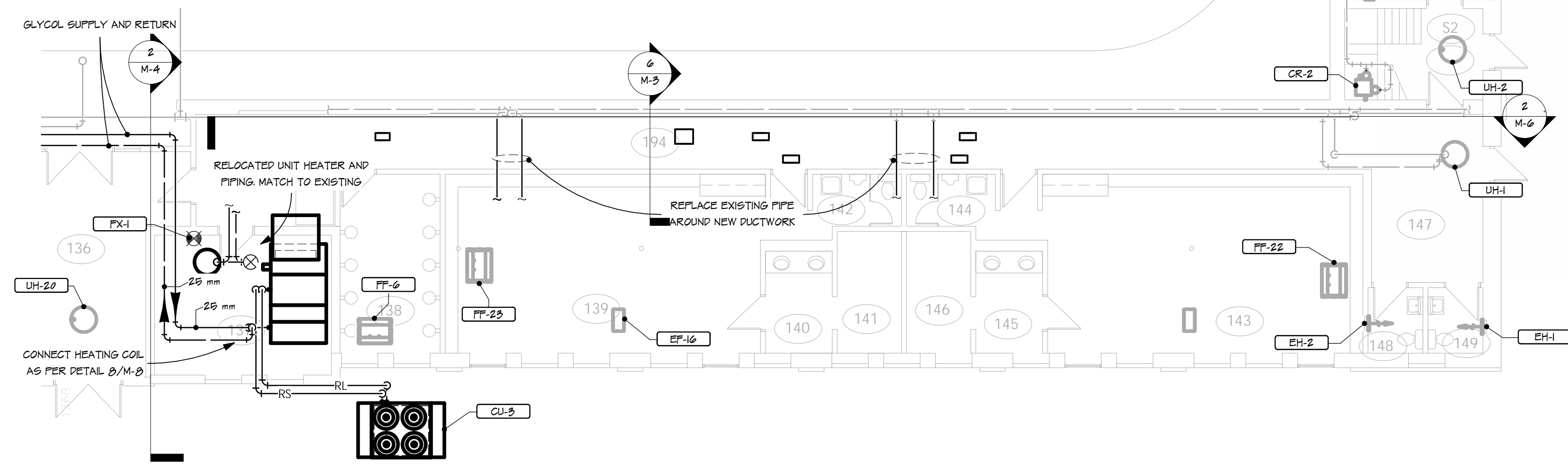
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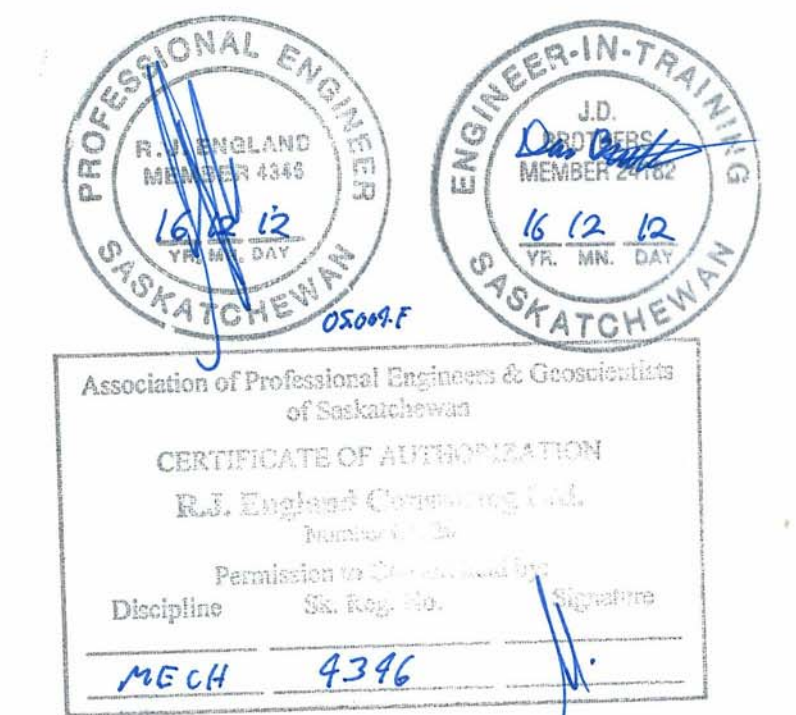
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SECTION VIEW LOOKING SOUTH - HALLWAY 104  
 1:50



MAIN FLOOR HEATING PLAN EAST  
 1:100



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project  
 MECHANICAL HEATING PLAN EAST AND SECTION VIEW

sheet title  
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 CONSULTING LTD.

400 - 410 Pasqua Street  
 Regina, Saskatchewan  
 CANADA S4S 7R9

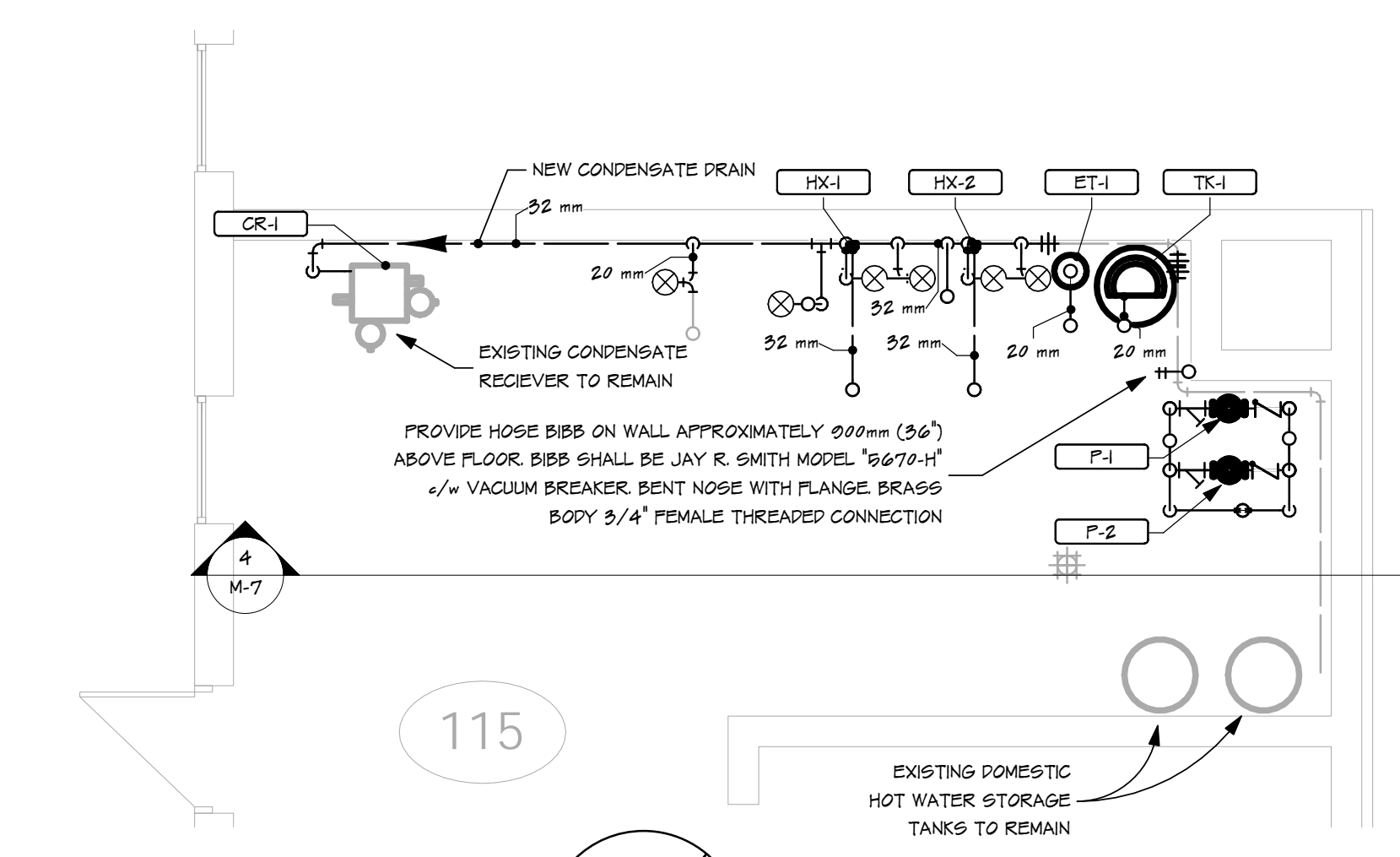
Telephone: 306.544.5380  
 Facsimile: 306.552.5380  
 info@rjengland.com

consultant

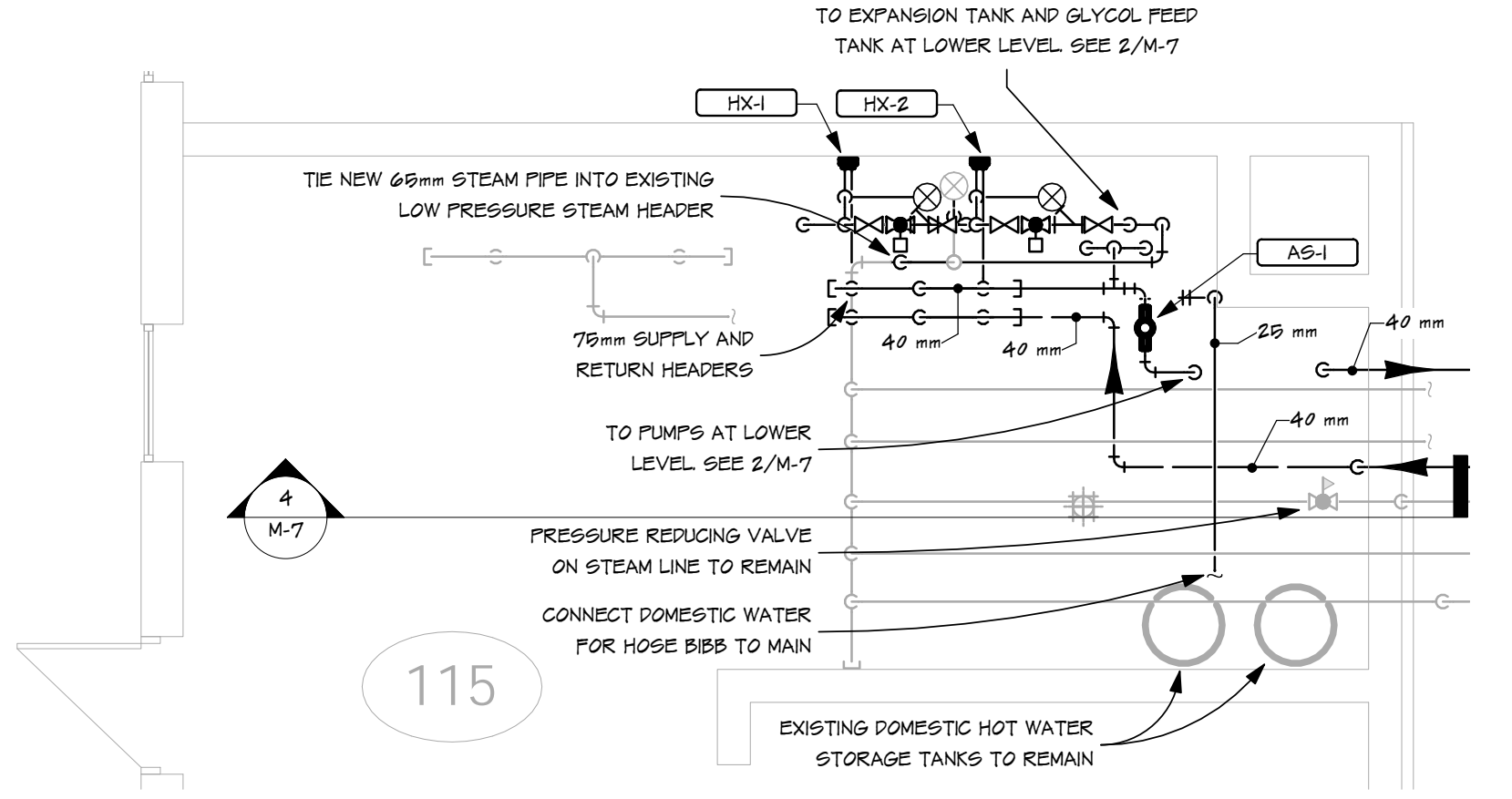
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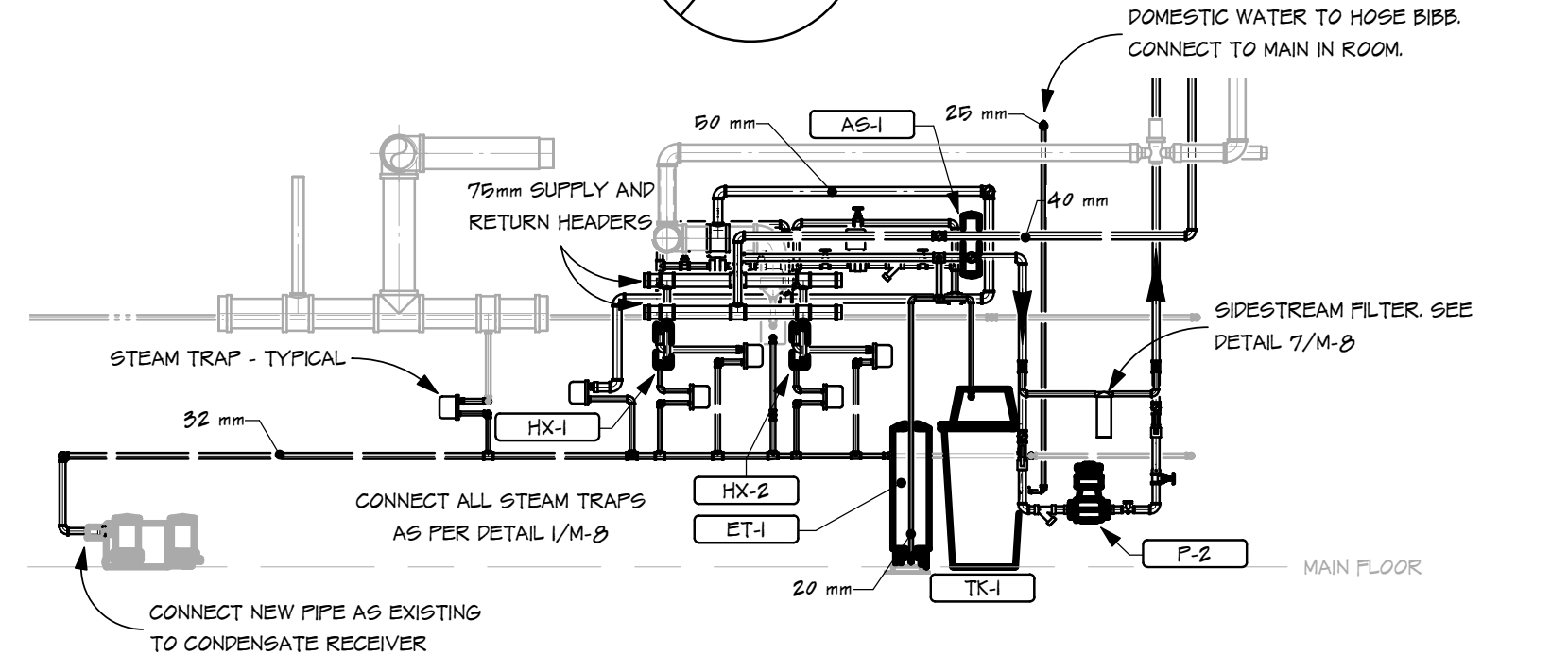
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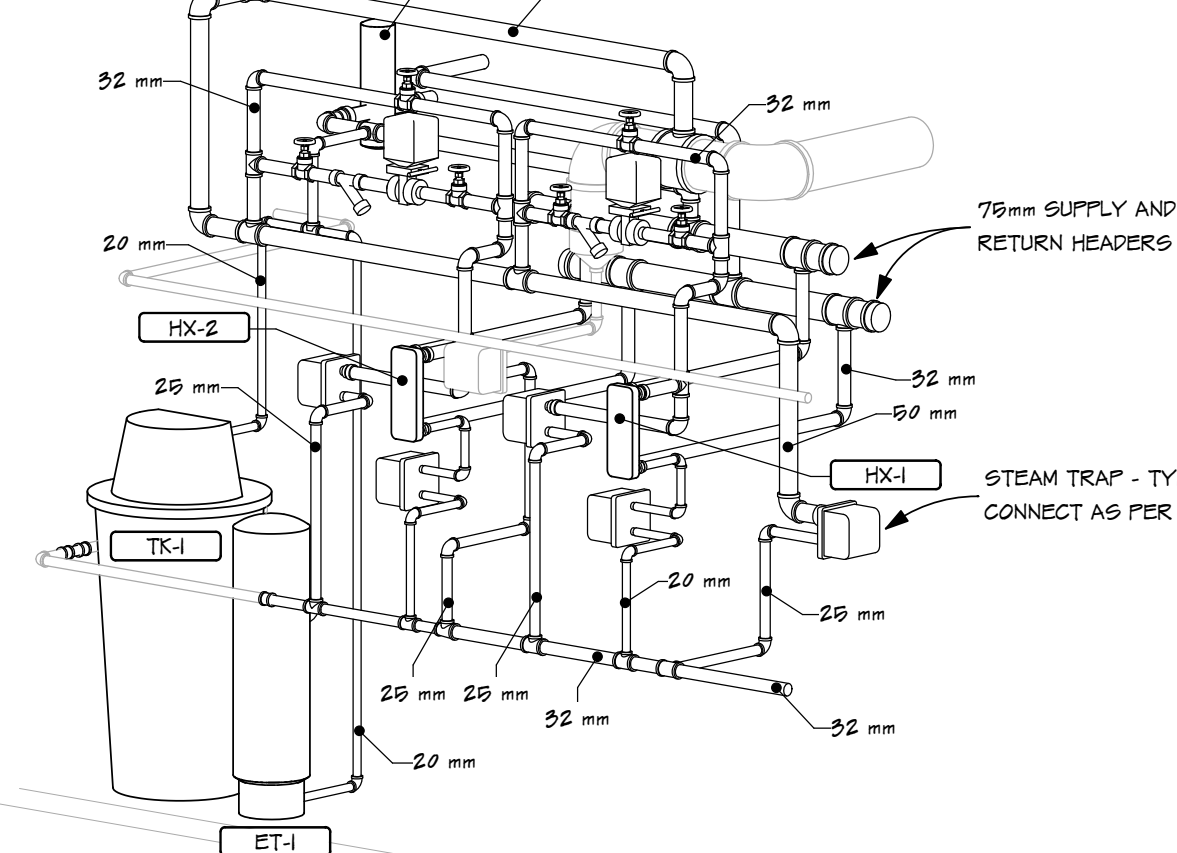
2 BOILER ROOM - LOWER LEVEL  
 1:50



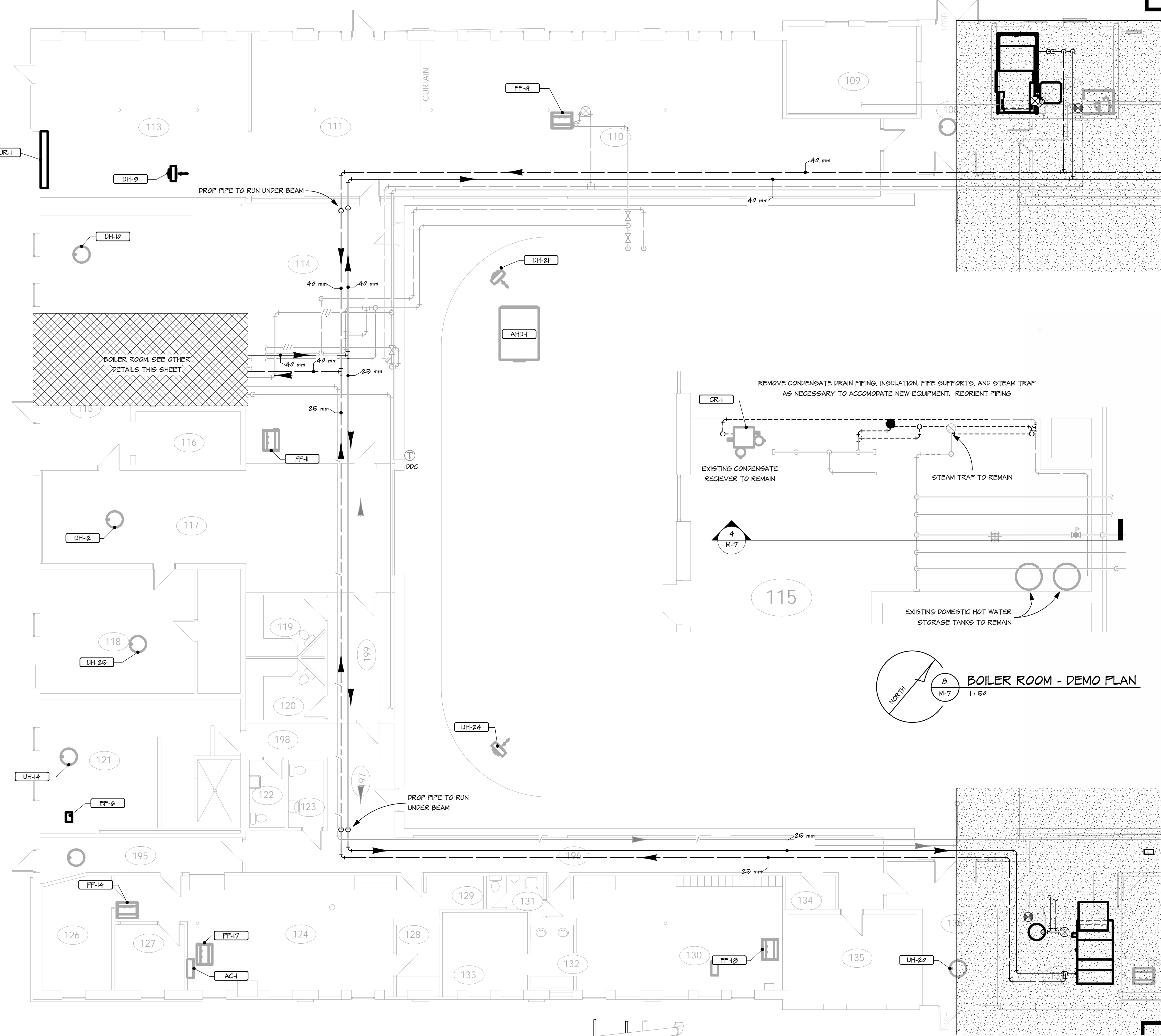
3 BOILER ROOM - UPPER LEVEL  
 1:50



4 BOILER ROOM SECTION LOOKING NORTH  
 1:50

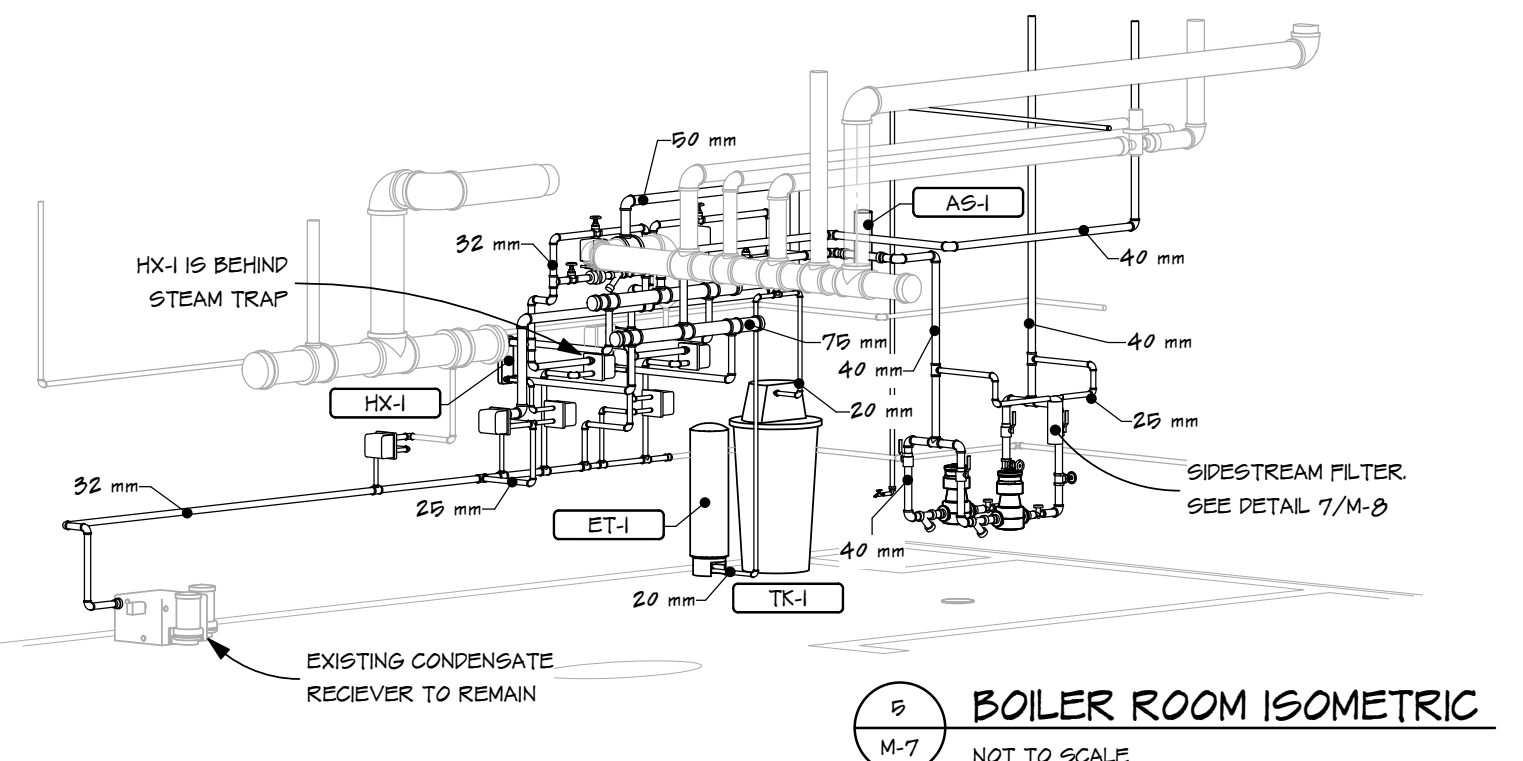


7 BOILER ROOM ISOMETRIC - PIPING ASSEMBLY CLOSEUP  
 1:50



8 BOILER ROOM - DEMO PLAN  
 1:50

1 MAIN FLOOR HEATING PLAN WEST  
 1:100



9 BOILER ROOM ISOMETRIC  
 NOT TO SCALE

PROFESSIONAL ENGINEER  
 R. J. ENGLAND  
 MEMBER 4346  
 16/12/12  
 TRC. MIN. DAT.  
 SASKATCHEWAN  
 OS000F

ENGINEER-IN-TRAINING  
 J.D. DUBOIS  
 MEMBER 4348  
 16/12/12  
 TRC. MIN. DAT.  
 SASKATCHEWAN

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 CERTIFICATE OF AUTHORIZATION  
 R.J. England Consulting Ltd.  
 Discipline: MECH  
 No. 4346

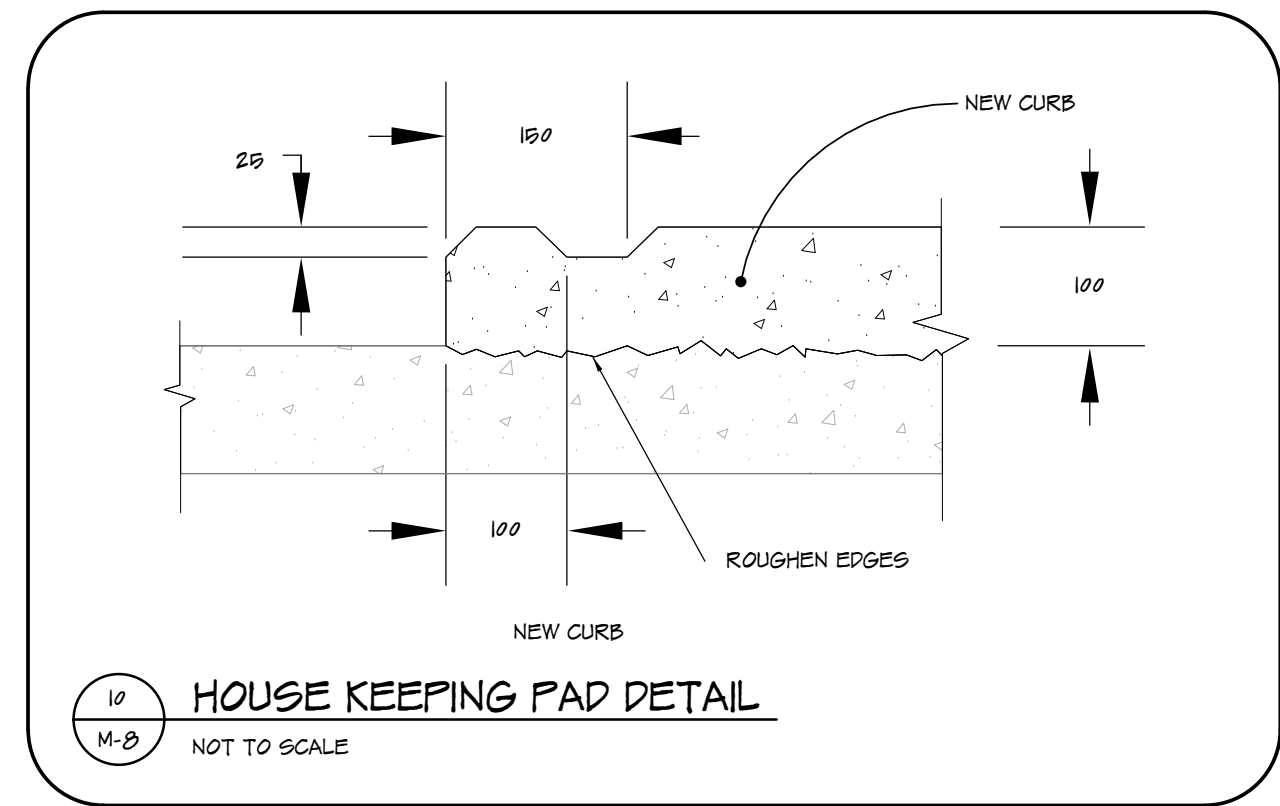
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 Multi Purpose Training Facility  
 Mechanical Renovation  
 Regina, SK.  
 project MECHANICAL  
 HEATING PLAN WEST  
 sheet title R.J. ENGLAND CONSULTING LTD.  
 403 - 4010 Pasqua Street Regina, Saskatchewan CANADA - S4S 1P9  
 Telephone: 304.544.5290 Facsimile: 304.352.5290 info@englandca.com

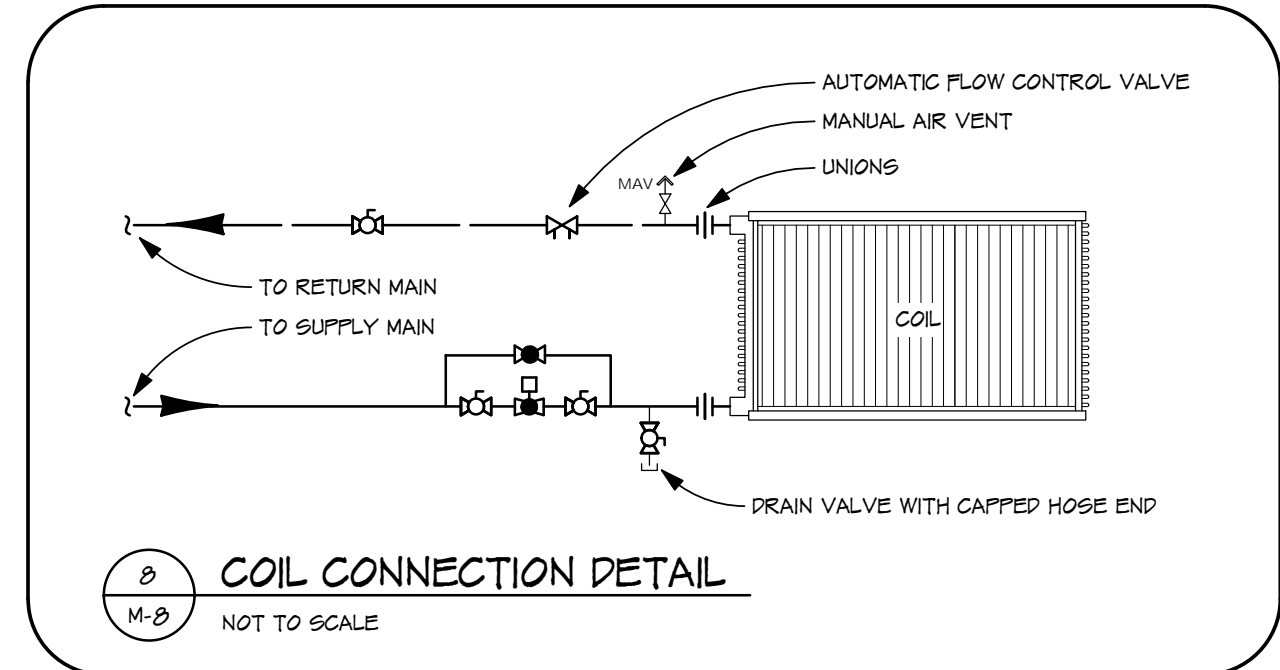
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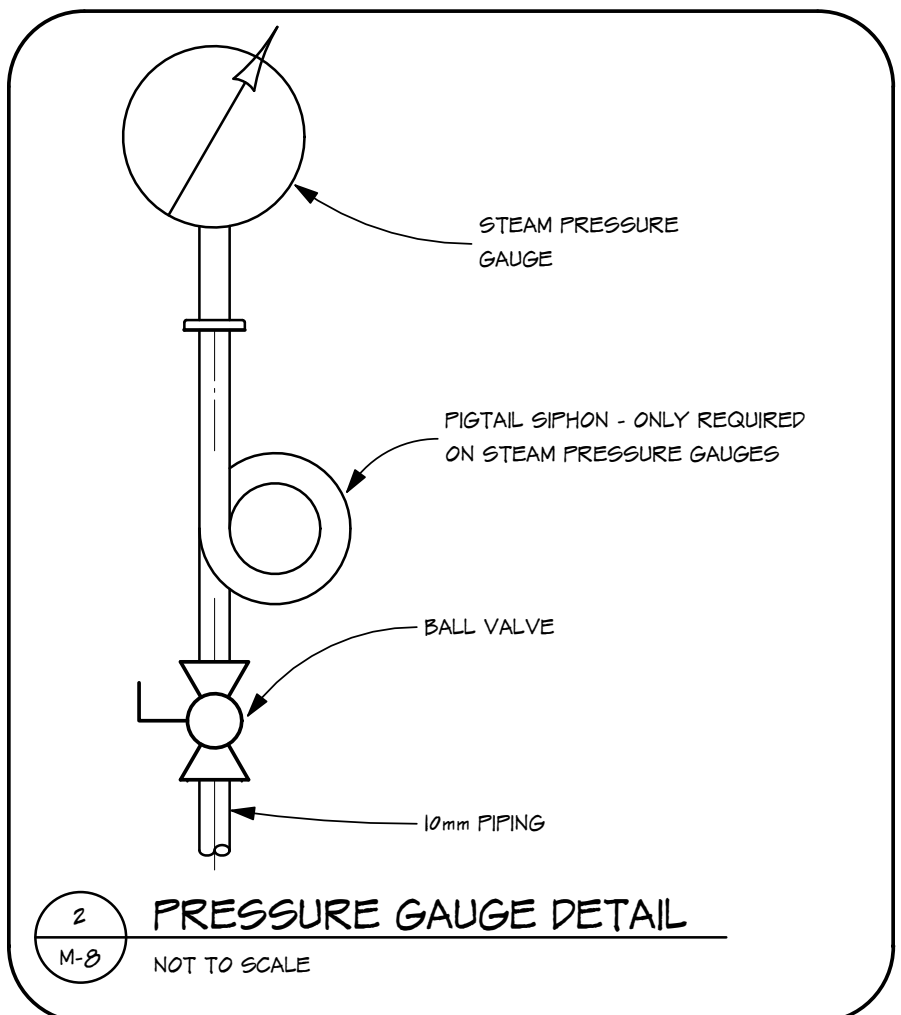
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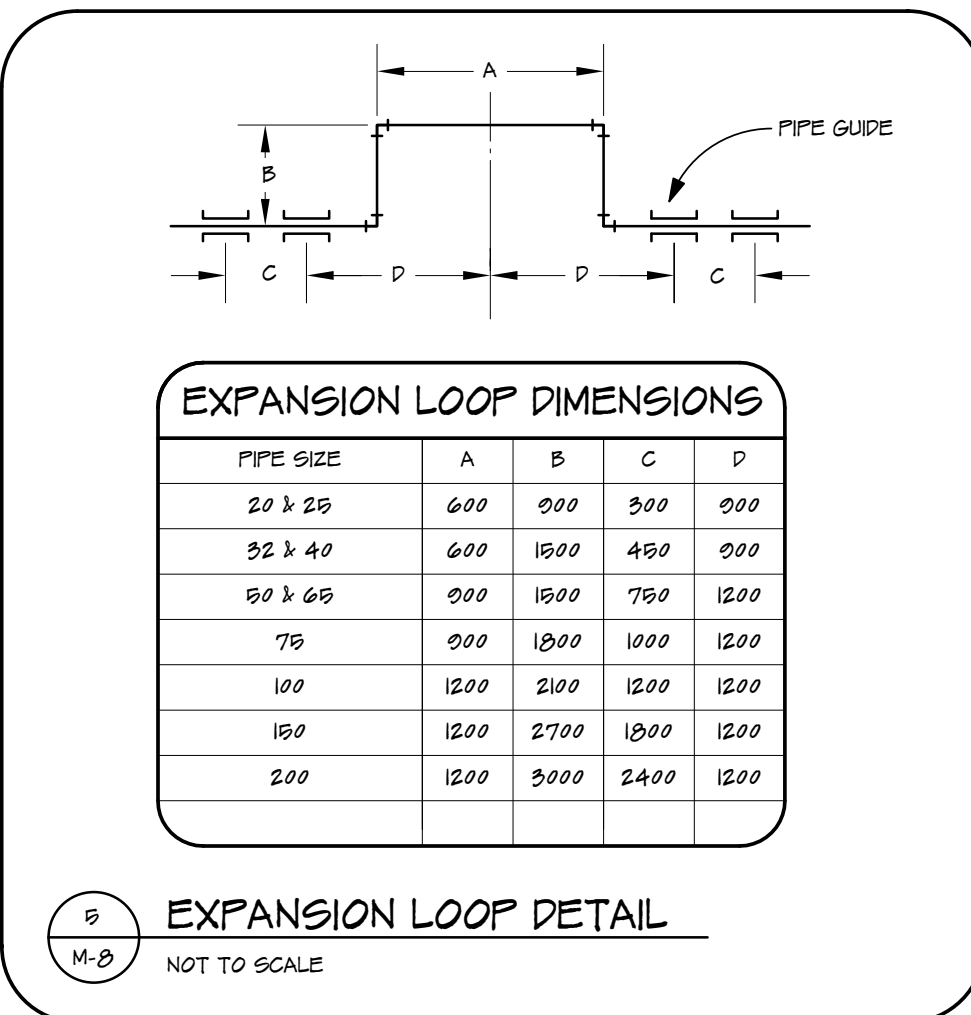
10 HOUSE KEEPING PAD DETAIL  
 M-B NOT TO SCALE



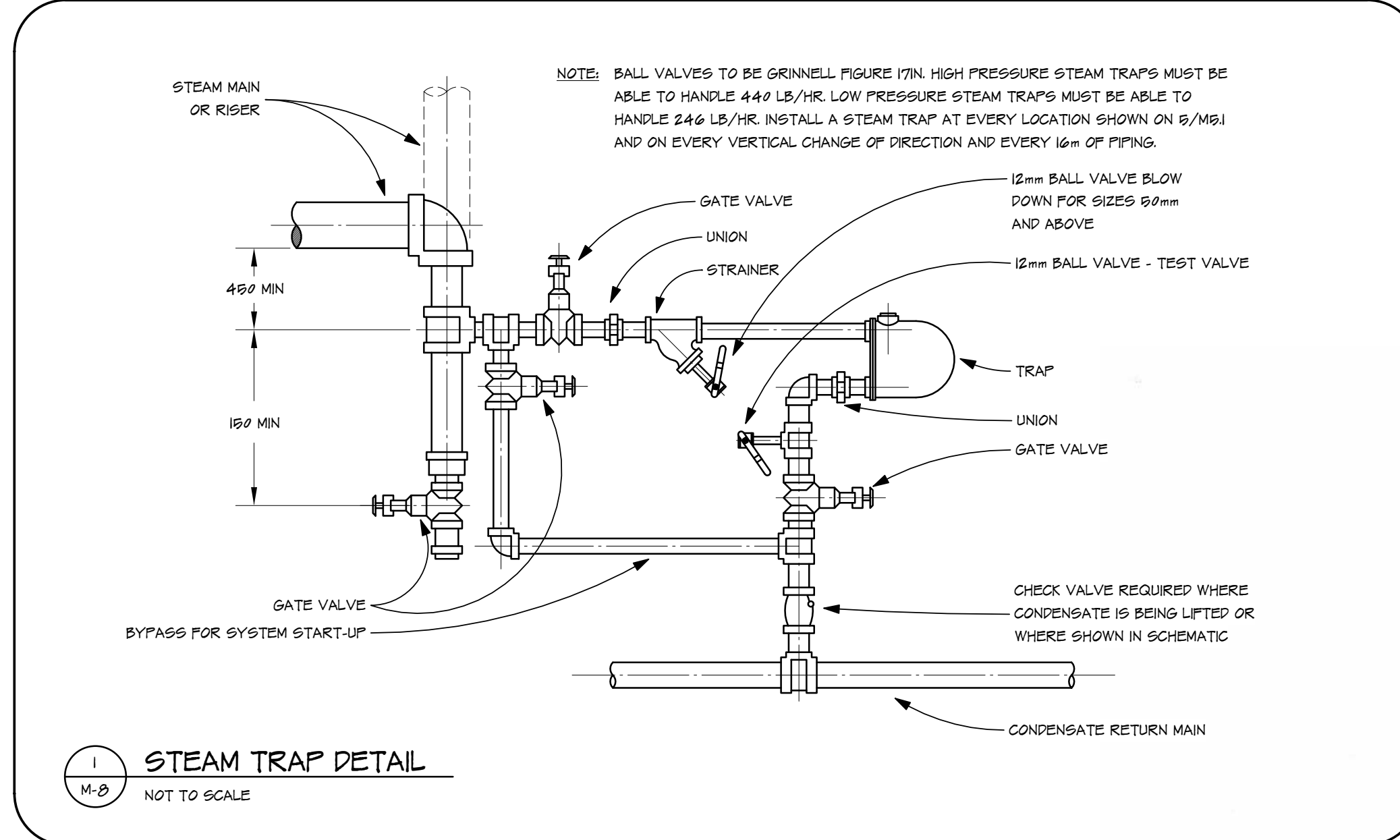
8 COIL CONNECTION DETAIL  
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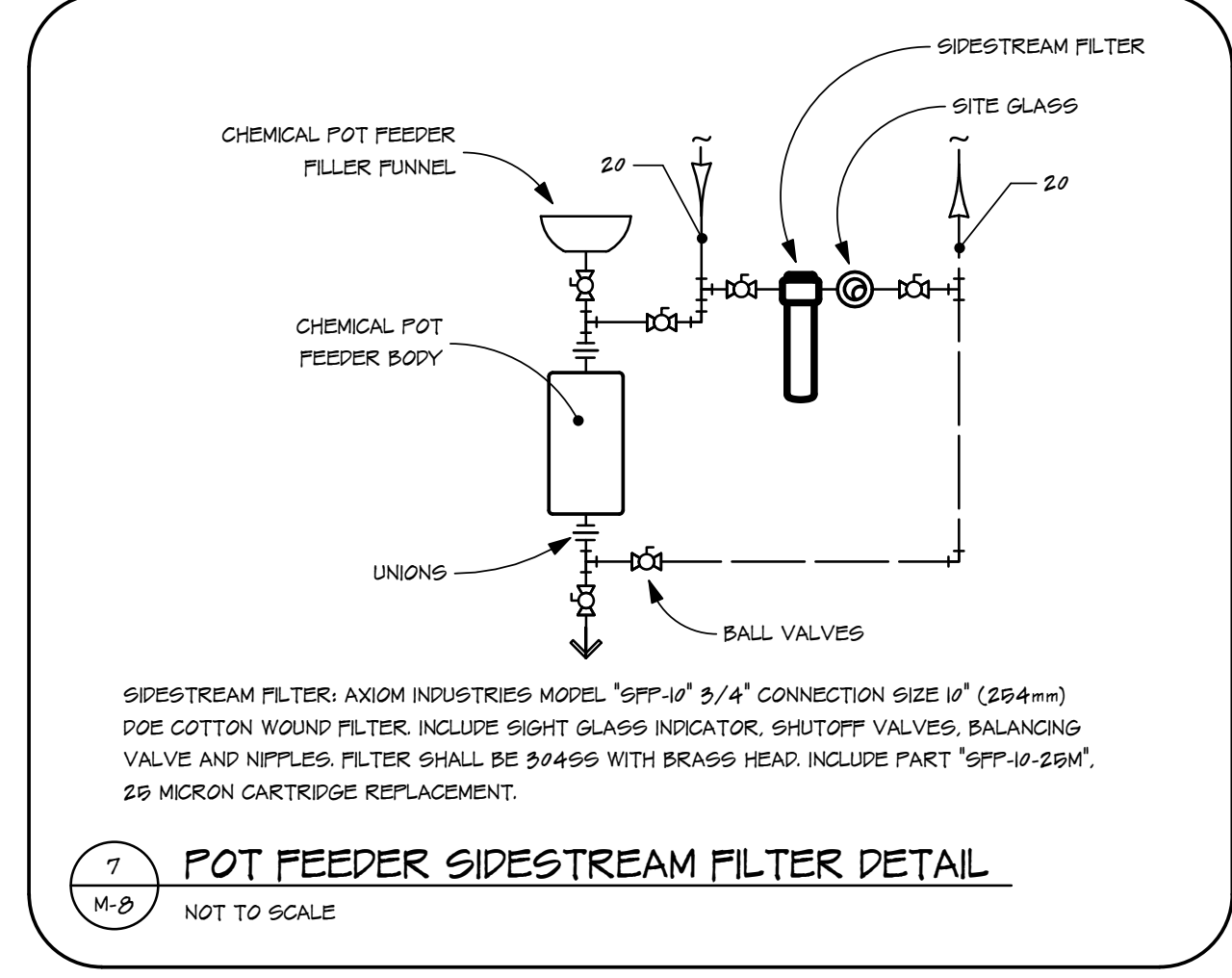
2 PRESSURE GAUGE DETAIL  
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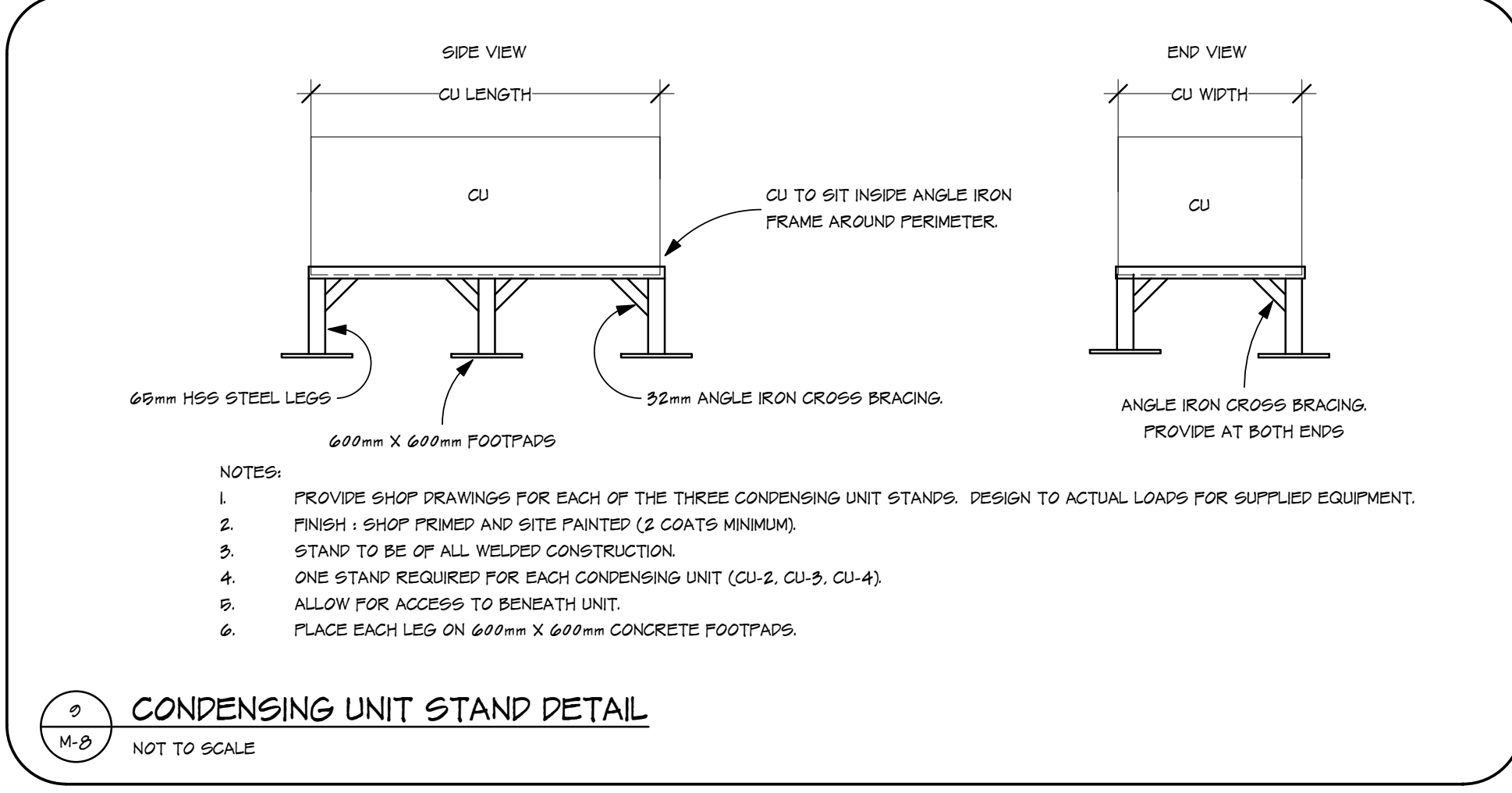
9 EXPANSION LOOP DETAIL  
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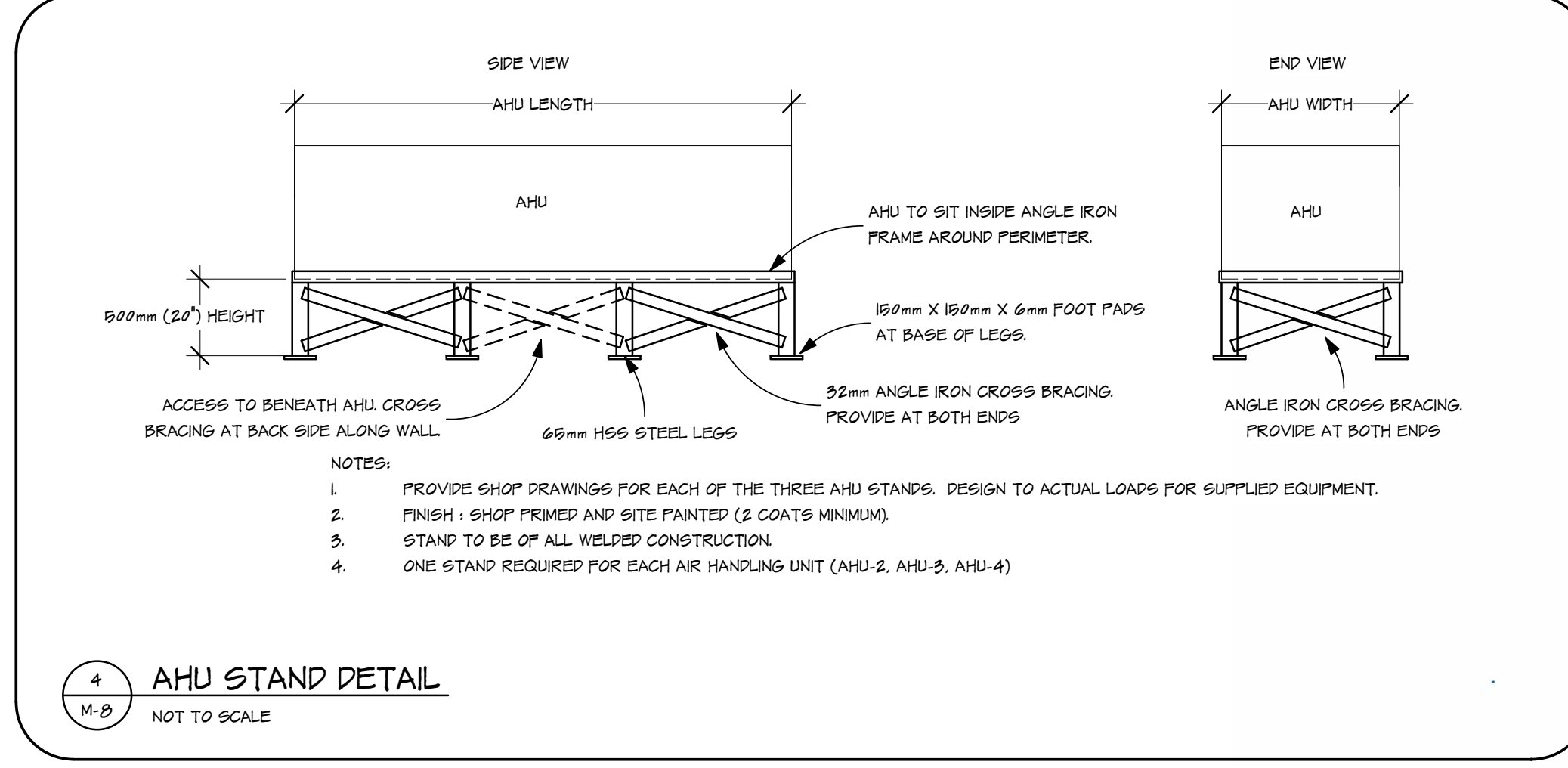
1 STEAM TRAP DETAIL  
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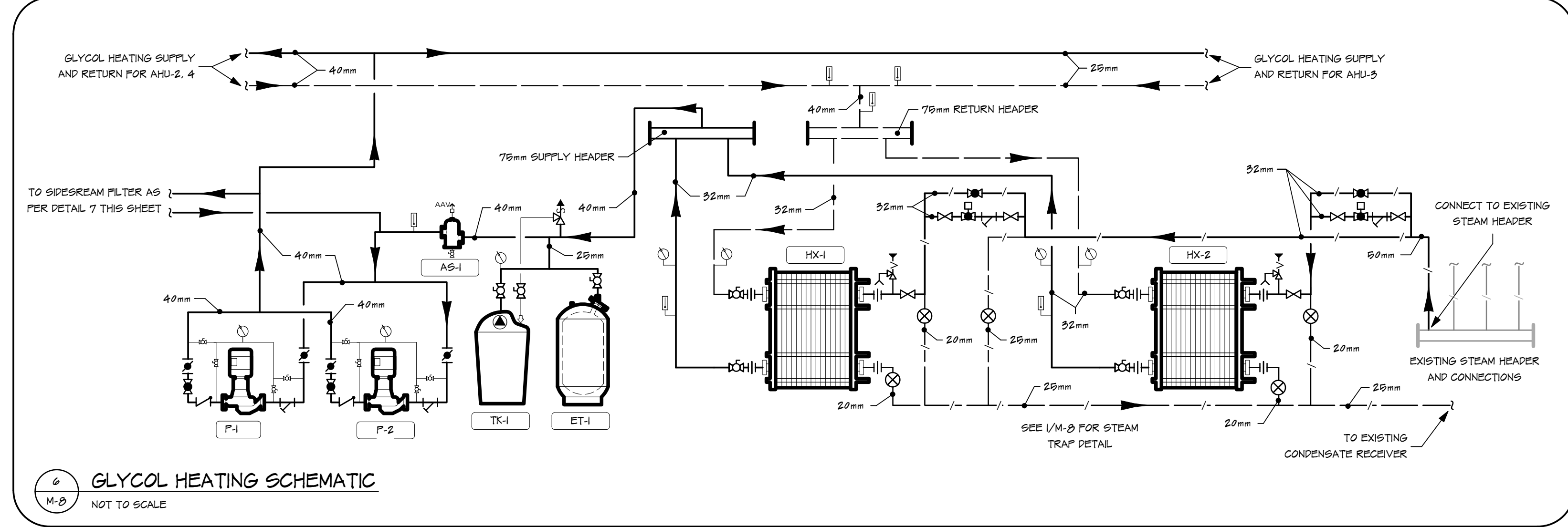
7 POT FEEDER SIDESTREAM FILTER DETAIL  
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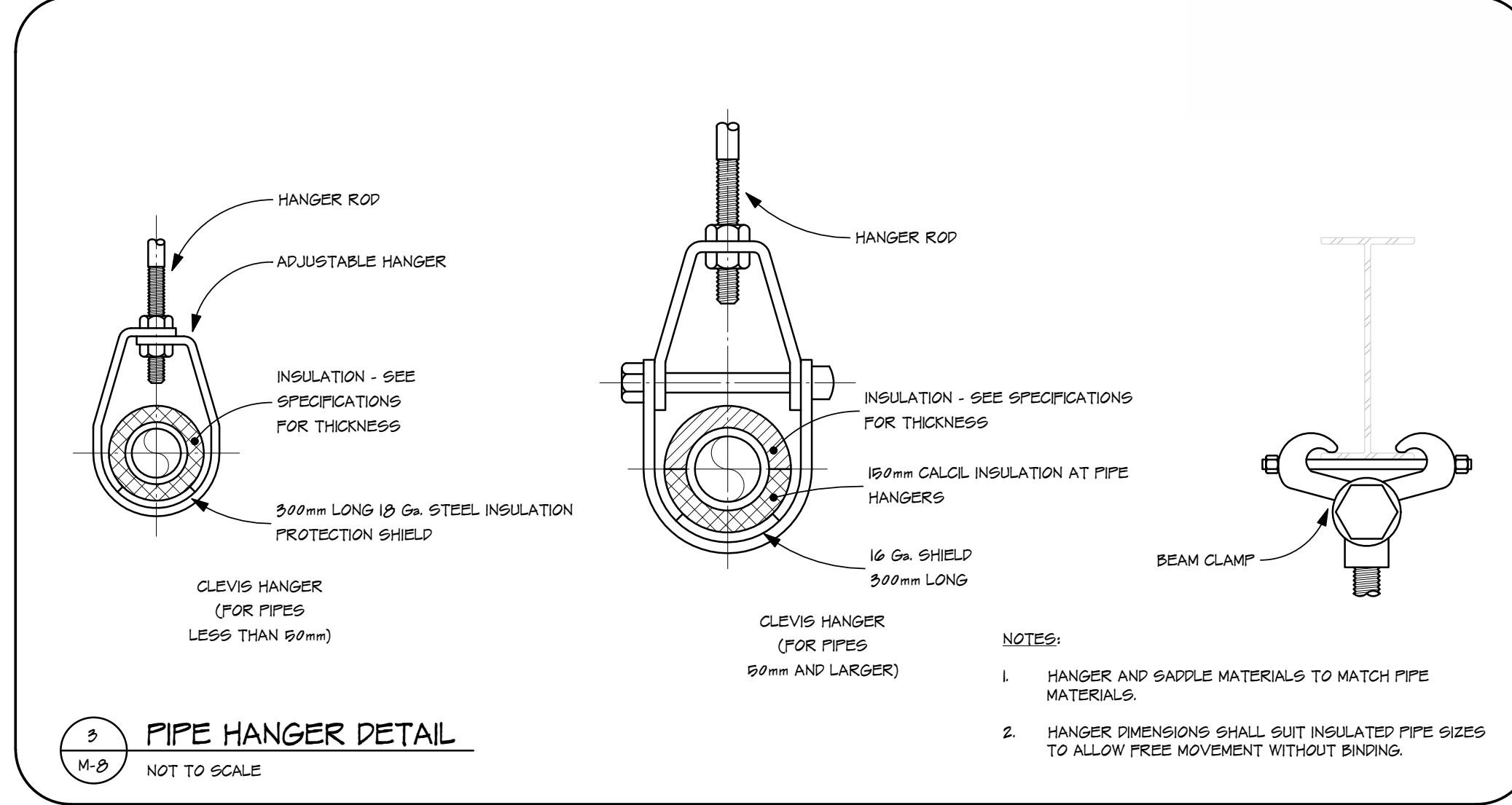
6 CONDENSING UNIT STAND DETAIL  
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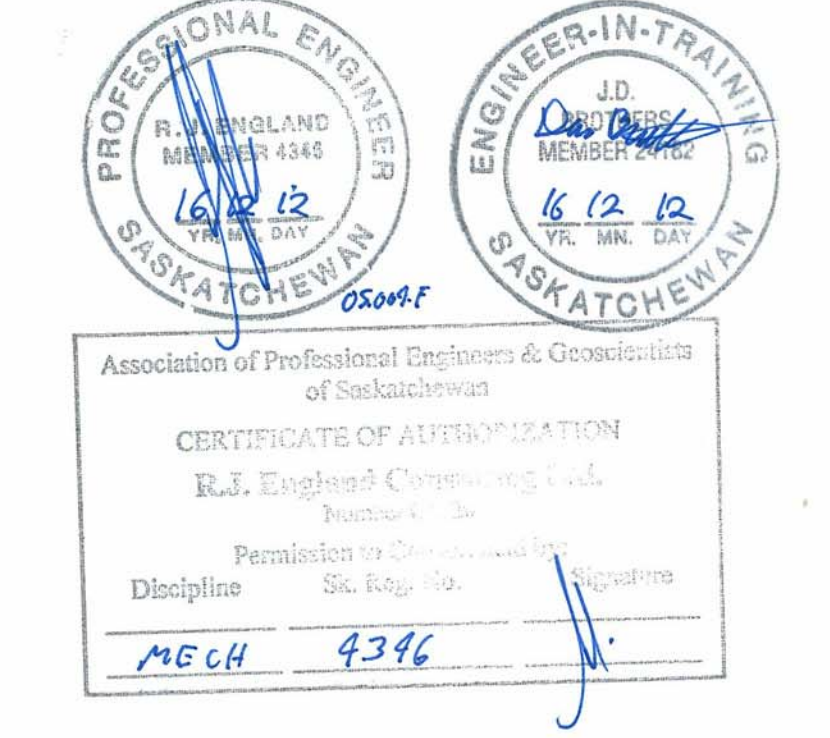
4 AHU STAND DETAIL  
 M-B NOT TO SCALE



6 GLYCOL HEATING SCHEMATIC  
 M-B NOT TO SCALE



5 PIPE HANGER DETAIL  
 M-B NOT TO SCALE



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 project MECHANICAL  
 DETAILS - STEAM & HYDRONICS  
 sheet title R.J. ENGLAND CONSULTING LTD.  
 consultant

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 sheet no. M-8

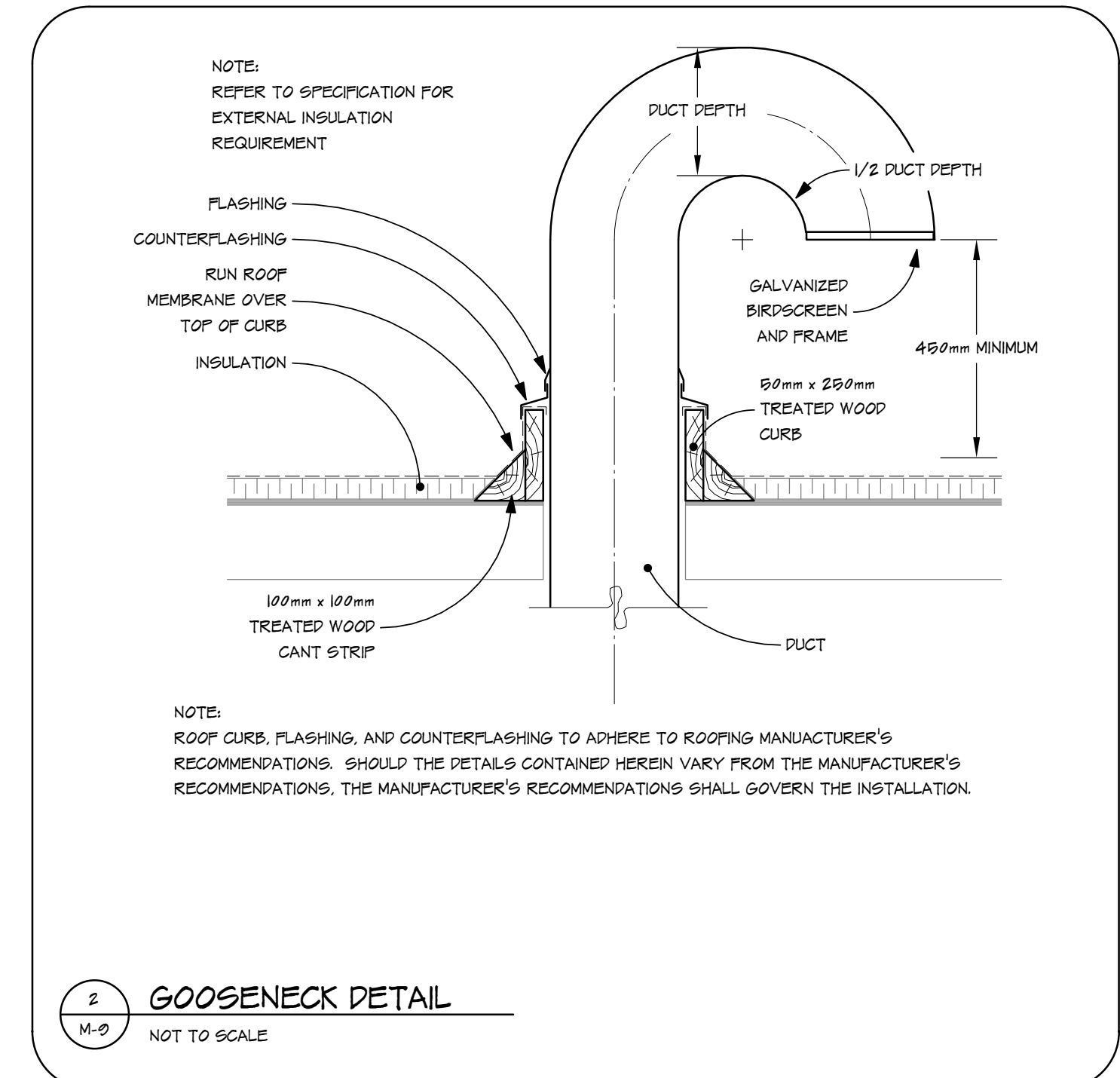
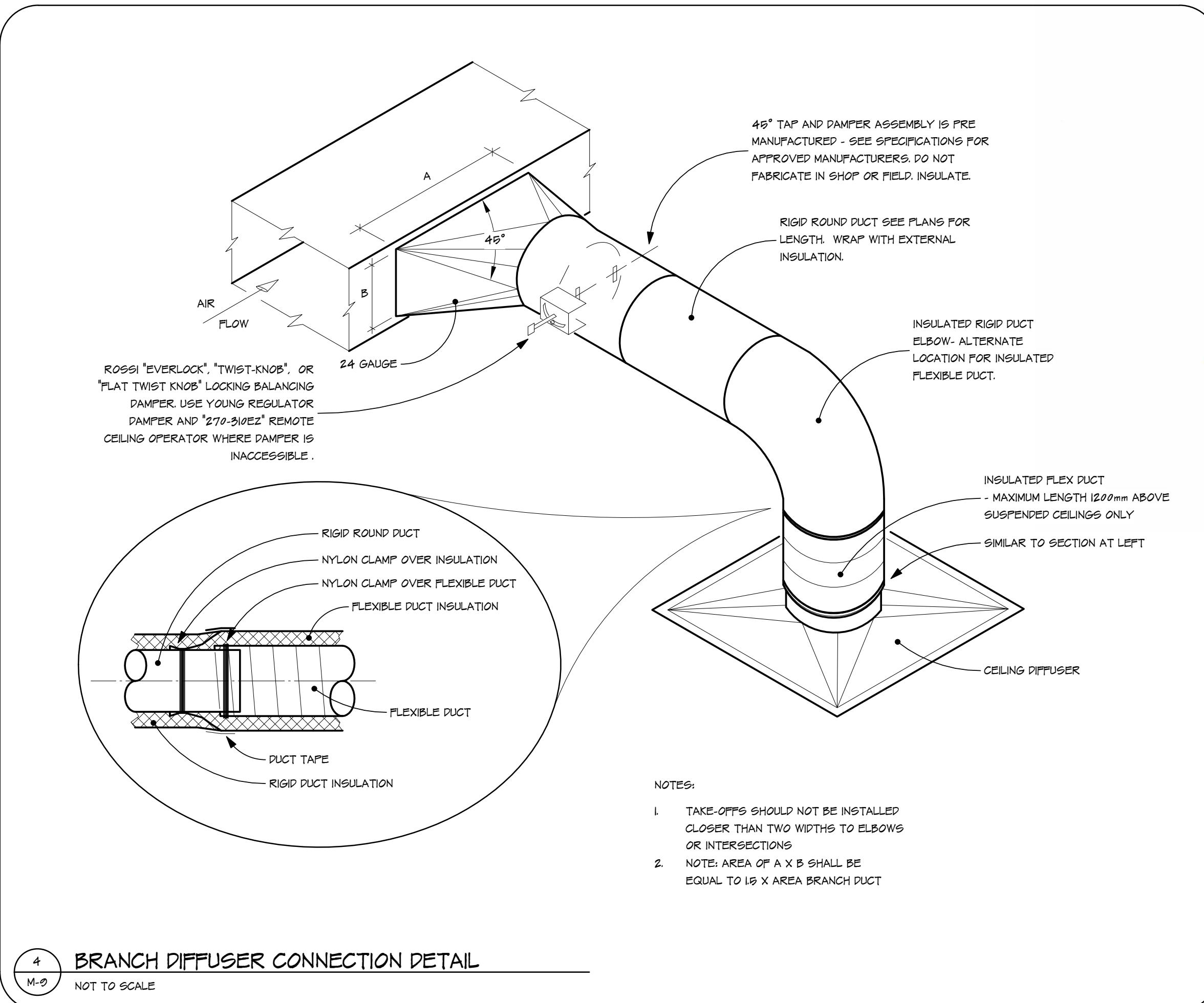
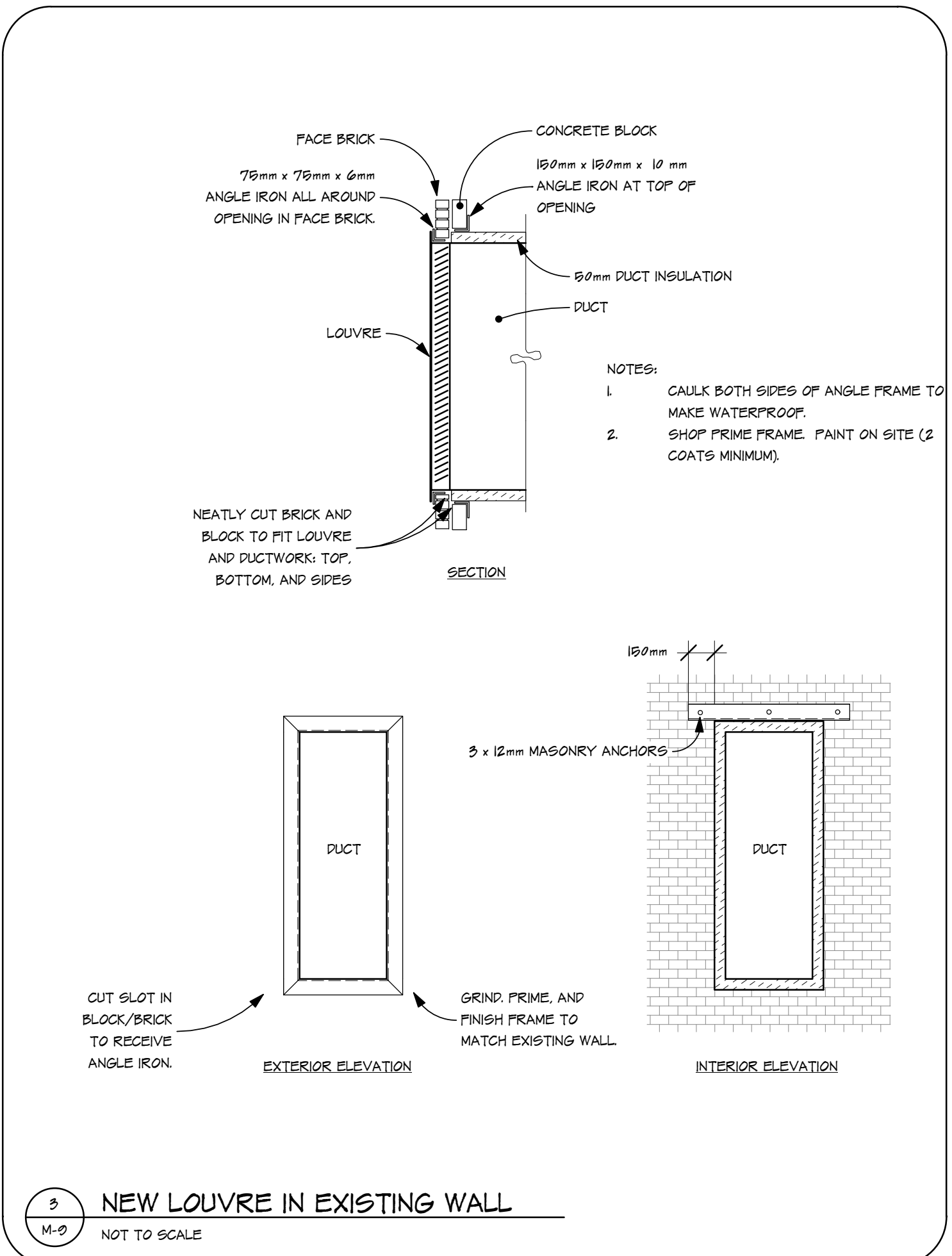
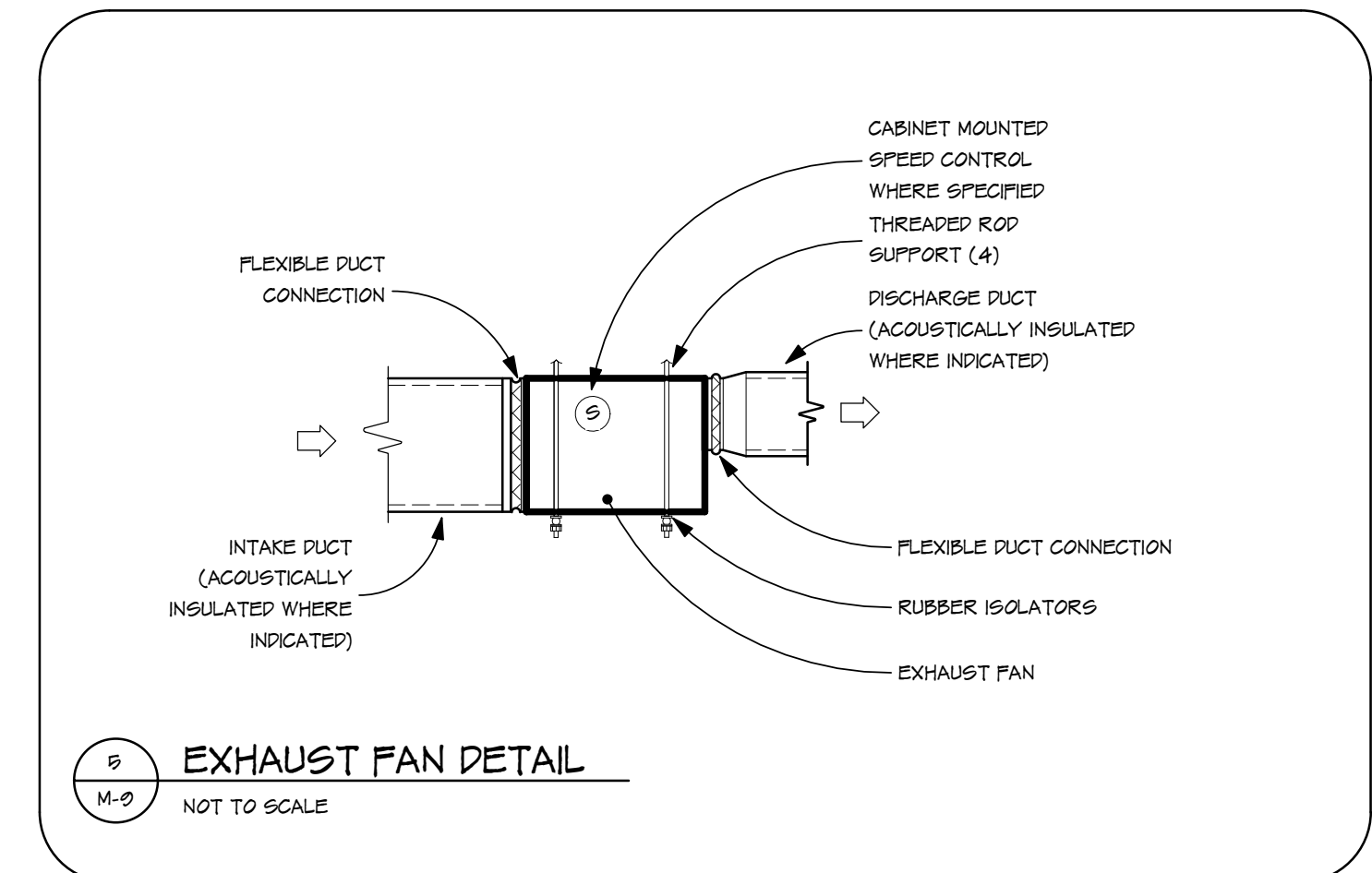
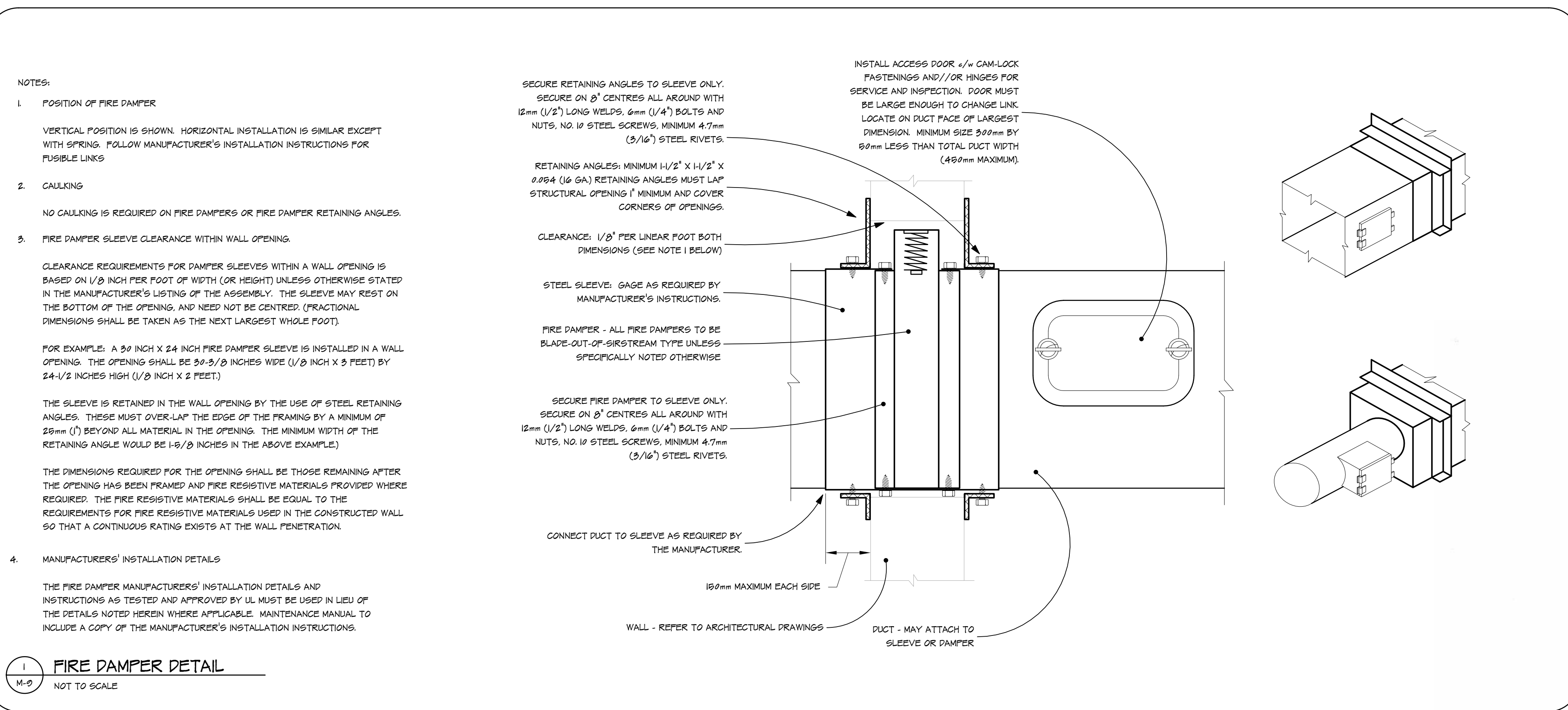
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PROFESSIONAL ENGINEER  
R. J. ENGLAND  
MEMBER 4546  
SASKATCHEWAN  
16/12/12  
0504.F

ENGINEER-IN-TRAINING  
J.D. BERRY  
MEMBER 4546  
SASKATCHEWAN  
16/12/12  
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CERTIFICATE OF AUTHORIZATION  
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Permitted to Practice in the Province of Saskatchewan  
Discipline: MECH. No. 4396

number TEN architectural group  
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GOVERNMENT OF CANADA  
Multi Purpose Training Facility  
Mechanical Renovation  
Regina, SK.

project  
MECHANICAL  
DETAILS - VENTILATION

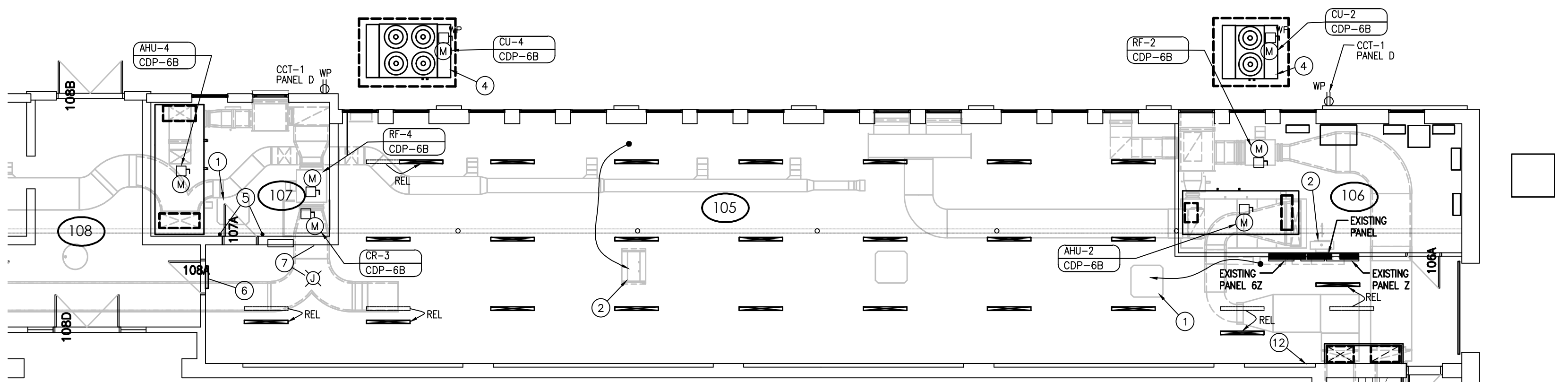
sheet title  
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CONSULTING LTD.  
410 - 4070 Praeger Street  
Regina, Saskatchewan  
CANADA S4S 7B9  
Telephone: 304.544.5380  
Facsimile: 304.352.5280  
info@rjengland.com

consultant

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date: 2016.12.05  
sheet no. M-9

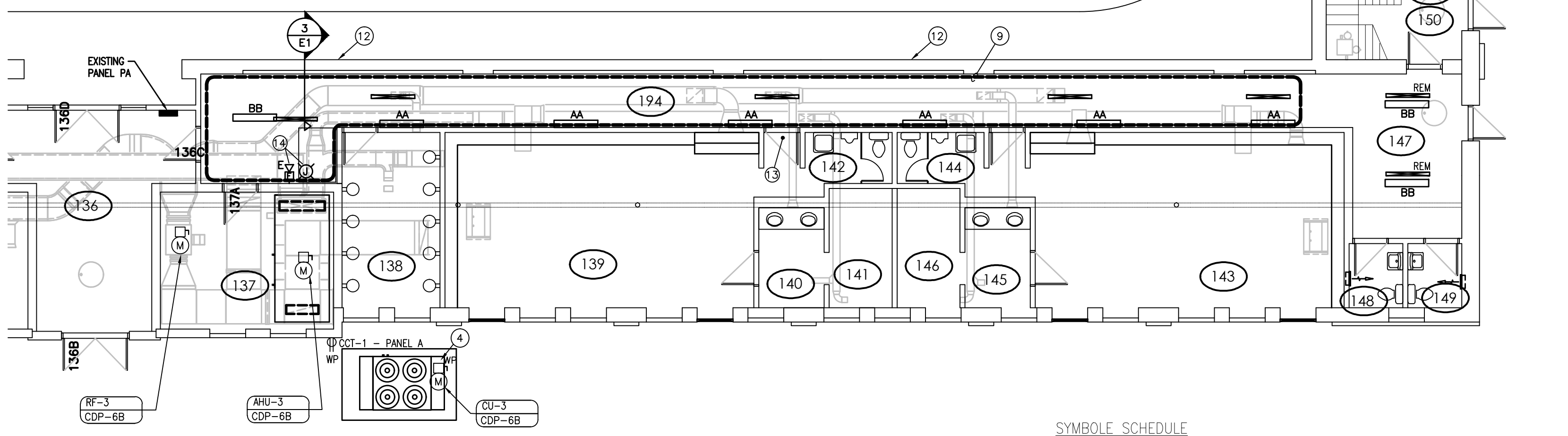
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 THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SPACING, AND LEVELS PRIOR TO COMMENCEMENT OF WORK. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.  
 WORKMAN AND MEASUREMENTS TO BE SHOWN ON THESE DRAWINGS SHALL NOT BE CARRIED OUT WITHOUT WRITTEN PERMISSION OF NUMBER TEN ARCHITECTURAL GROUP.  
 THIS DRAWING IS THE EXCLUSIVE PROPERTY OF NUMBER TEN ARCHITECTURAL GROUP AND THE CONTRACTOR IS TO BE KEPT UNDER LOCK AND KEY. IT MAY BE REPRODUCED ONLY WITH THE PERMISSION OF NUMBER TEN ARCHITECTURAL GROUP, IN WHICH CASE THE REPRODUCTION MUST BE WITH THEIR NAME.

REVISION / ISSUE / PLANNED	DATE
CLIENT REVIEW	2016-11-15
CLIENT REVIEW / COST ESTIMATE	2016-12-02
ISSUED FOR TENDER	2016-12-19



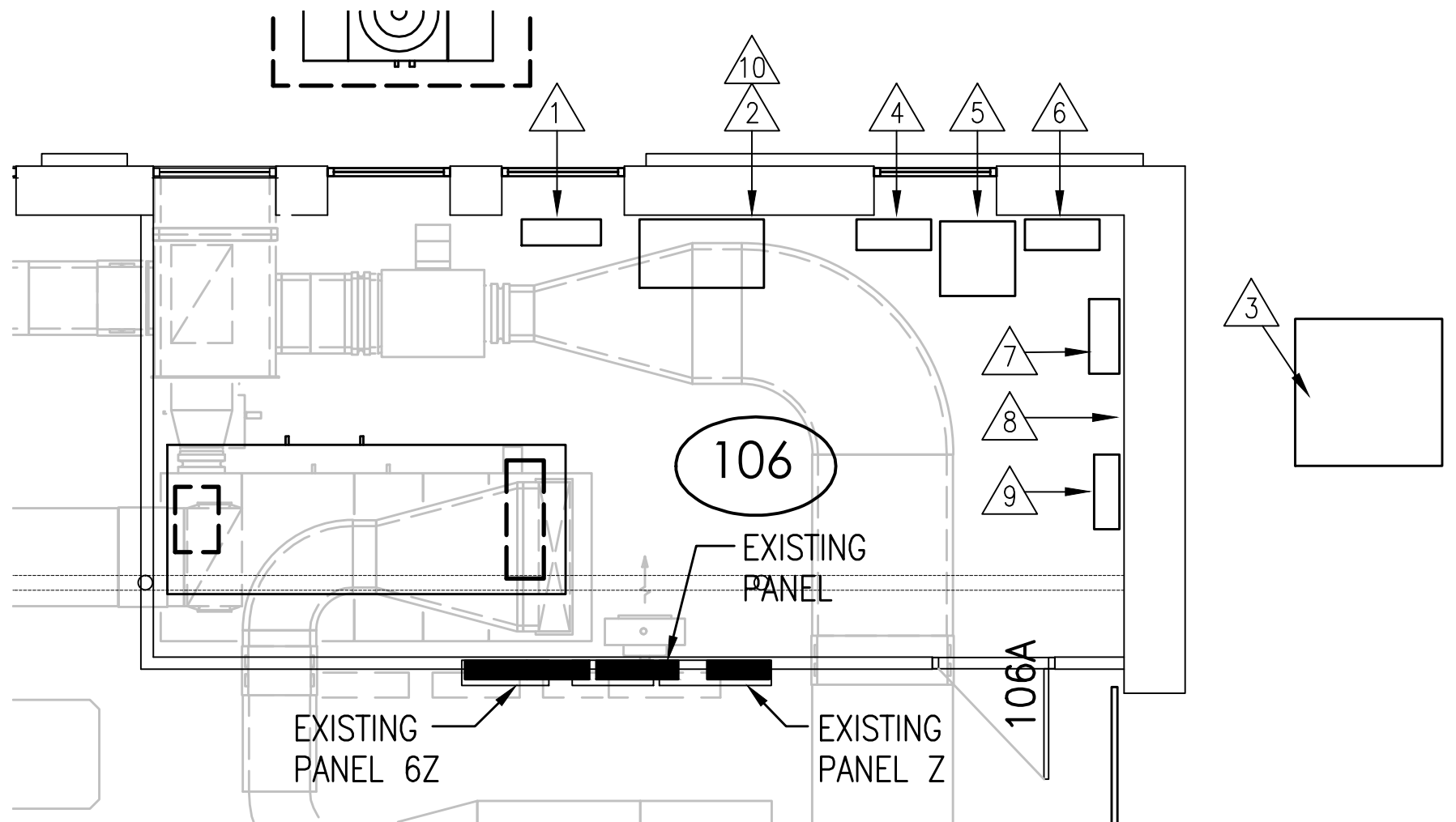
- DEMOLITION KEY NOTES:**
- 1 TAKE DOWN LIGHT FIXTURES THAT ARE IN CONFLICT WITH THE INSTALLATION OF THE NEW DUCTWORK AND STORE IN A SAFE LOCATION TO AVOID DAMAGE. RE-INSTALL FIXTURES AS CLOSE AS POSSIBLE TO THE EXISTING LOCATION AND RECONNECT TO EXISTING LIGHTING CIRCUITS.
  - 2 DISCONNECT EXISTING FANS THAT ARE BEING REMOVED AND REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO THE SOURCE.
  - 3 WHERE NEW DUCTWORK IS LOCATED BELOW AN EXISTING JUNCTION BOX THE CONTRACTOR SHALL INTERCEPT THE EXISTING WIRING AND PROVIDE NEW ACCESSIBLE JUNCTION BOXES ADJACENT TO THE NEW DUCTWORK. PROVIDE NEW WIRING BETWEEN JUNCTION BOXES AND RECONNECT TO EXISTING CIRCUITS.
  - 4 WHERE NEW DUCTWORK IS LOCATED BELOW AN EXISTING FIRE ALARM JUNCTION BOX OR DETECTOR, THE CONTRACTOR SHALL PROVIDE NEW ACCESSIBLE JUNCTION BOXES ADJACENT TO THE NEW DUCTWORK. PROVIDE NEW WIRING FROM THE FIRE ALARM DEVICE BACK TO THE FIRE ALARM PANEL. SPLICING OF FIRE ALARM WIRING WILL NOT BE ACCEPTED. ALL DEVICES AFFECTED BY THE RENOVATION SHALL BE RE-VERIFIED BY THE MANUFACTURERS REPRESENTATIVE.
  - 5 WHERE NEW DUCTWORK PASSES THROUGH ANY WALL PARTITION THAT HAS SURFACE MOUNTED OR RECESSED CONDUITS AND WIRING THE CONTRACTOR SHALL INTERCEPT THE EXISTING WIRING AND PROVIDE NEW ACCESSIBLE JUNCTION BOXES ADJACENT TO THE NEW DUCTWORK. PROVIDE NEW WIRING BETWEEN JUNCTION BOXES AND RECONNECT TO EXISTING CIRCUITS.
  - 6 WHERE WALL MOUNTED EXIT SIGNS, EMERGENCY LIGHTS AND FIRE ALARM SIGNAL DEVICE VISIBILITY IS AFFECTED BY THE NEW DUCTWORK, THE CONTRACTOR SHALL ADJUST THE DEVICES TO MAINTAIN PROPER VISIBILITY.
  - 7 WHERE NEW DUCTWORK IS LOCATED BELOW AN EXISTING WIRELESS MODUM THE CONTRACTOR SHALL PROVIDE NEW ACCESSIBLE JUNCTION BOXES ADJACENT TO THE NEW DUCTWORK AND RELOCATE THE WIRELESS MODUM AND PULL BACK THE EXISTING CABLE AND RE-CONNECT.

- DRAWING NOTE:**
- 1 DISCONNECT EXISTING UNIT HEATER AND RECONNECT AT NEW LOCATION. EXTEND BRANCH CIRCUITRY TO NEW LOCATION AS SHOWN.
  - 2 DISCONNECT EXISTING FORCE FLOW HEATER AND RECONNECT AT NEW LOCATION. EXTEND BRANCH CIRCUITRY TO NEW LOCATION AS SHOWN.
  - 3 DISCONNECT EXISTING UNIT HEATER AND CONNECT NEW UNIT HEATER TO EXISTING BRANCH CIRCUITRY.
  - 4 RUN NEW FEEDERS AT GRADE AND PROVIDE UNISTRUT SUPPORT MOUNTED TO THE CONDENSER PAD BETWEEN UNIT AND THE EXTERIOR WALL. STUB INTO BUILDING AT FLOOR LEVEL AND RISE UP TO THE CEILING AND RUN SURFACE MOUNTED BACK TO THE DISTRIBUTION. PROVIDE A WEATHER TIGHT SEAL AT THE WALL PENETRATION AND FIRE STOPPING WHERE FEEDERS PASS THROUGH A FIRE RATED WALL. DRILLING INTO EXTERIOR BRICK WILL NOT BE ACCEPTED. LIMIT DRILLING TO MORTAR JOINTS.
  - 5 EXISTING DOOR BEING WIDENED, RELOCATE EXISTING LIGHT SWITCH, LINE VOLTAGE THERMOSTAT CONTROL, CONDENSATE RECEIVER CR-3A DISCONNECT, GENERAL CIRCUITRY CONDUIT/LB FITTING, AND GENERAL PURPOSE RECEPTACLE.
  - 6 EXISTING EXIT SIGN AND EXIT SIGN'S FEED/JB LOCATIONS ARE IN CONFLICT WITH NEW DUCTWORK. PROVIDE NEW JUNCTION BOX SOUTH OF CONFLICT AREA, PROVIDE NEW CONDUIT/CABLE TO RELOCATED EXIT SIGN LOCATION TO THE NORTH OF EXISTING INSTALLATION.
  - 7 EXISTING CONDUIT THROUGH WALL AND CEILING MOUNTED JUNCTION BOX ARE IN CONFLICT WITH NEW DUCTWORK. REROUTE CONDUIT AND PROVIDE NEW JUNCTION BOX.
  - 8 RELOCATE EXISTING EMERGENCY LIGHTING FROM CONFLICT AREA WITH NEW DUCTWORK.
  - 9 ENTIRE CEILING WILL NO LONGER BE ACCESSIBLE DUE TO NEW DUCTWORK INSTALLATION. REMOVE EXISTING LIGHT FIXTURES IN CORRIDOR. WALL MOUNTED EMERGENCY LIGHTING SHALL BE LOWERED BELOW NEW DUCTWORK AND LOCATED TO ACCOMMODATE NEW LIGHT FIXTURES. EXISTING CONDUITS AND JUNCTION BOXES RUNNING THROUGH THIS AREA SHALL BE REMOVED AND RELOCATED AS PER E1/DETAIL 3. PROVIDE NEW CONNECTION FROM EXIT SIGNS TO AREA LIGHTING TO REPLACE ANY REMOVED CONNECTIONS FROM DEMOLISHED LIGHT FIXTURES.
  - 10 REMOVE EXISTING LIGHT FIXTURE AND RELOCATE EXISTING JUNCTION BOX.
  - 11 LOWER EXIT SIGN AS REQUIRED TO ACCOMMODATE NEW DUCTWORK.
  - 12 MOUNT NEW MECHANICAL FEEDER CONDUITS ALONG THIS WALL AS POSSIBLE. COORDINATE WITH EXISTING CONDUITS IN THIS AREA. PROVIDE FIRE STOPPING WHERE FEEDERS PASS THROUGH A FIRE RATED WALL.
  - 13 APPROXIMATE LOCATION OF 'T9' 200mm X 200mm RCMP SECURITY JUNCTION BOX.
  - 14 PROVIDE NEW JUNCTION BOX IN ROOM 138 TO REPLACE EXISTING FIRE ALARM JUNCTION BOX. PROVIDE NEW SIGNAL DEVICE FEED FROM MAIN FIRE ALARM PANEL TO EXISTING HORN/STROBE, AND RE-TERMINATE ALL DEVICES AFFECTED BY THIS RELOCATION.
  - 15 EXISTING LIGHTS ARE FED FROM ABOVE DRYWALL CEILING WITH JUNCTION BOX AT FIXTURE POKING THROUGH. REMOVE EXISTING FIXTURE JUNCTION BOX, PROVIDE NEW EXIT TO NEW LOCATION, AND PROVIDE NEW FIXTURE JUNCTION BOX POKING THROUGH CEILING. PROVIDE NEW WIRING FROM LOCAL PANEL TO LIGHT FIXTURE.
  - 16 RELOCATE EXISTING EXIT SIGN TO ACCOMMODATE NEW DUCTWORK.



- SYMBOLS SCHEDULE**
- ⊠ BLANKED OUTLET C/W COVERPLATE
  - ⊠ JUNCTION BOX/OUTLET BOX
  - ⊠ RECEPTACLES WITH NO SUFFIX SHALL BE MOUNTED UP 450mm. WHERE SUFFIXED, MOUNT AS FOLLOWS: '2' - 250mm, ABOVE COUNTER; '1' - UP 800mm; 'm' - 250mm, ABOVE COUNTER FOR MICROWAVE; 'GFI' - DUPLEX GROUND FAULT INTERRUPTER RECEPTACLE.
  - SURFACE MOUNTED ELECTRICAL DISTRIBUTION PANEL.
  - MOLDED CASE TYPE CIRCUIT BREAKER, 15 AMP UNLESS OTHERWISE NOTED
  - ⊠ MOTOR CONNECTION, SEE MECHANICAL DRAWINGS FOR DETAILS & CO-ORDINATE FINAL LOCATIONS ON SITE.
  - ⊠ MOTOR DISCONNECT SWITCH. SUFFIX 'WP' - WEATHERPROOF.

**1 MAIN FLOOR PLAN EAST**  
 E1 SCALE: 1:100



**2 PARTIAL MAIN FLOOR PLAN**  
 E1 SCALE: 1:50

- EXISTING ELECTRICAL ROOM DRAWING NOTES**
- ⊠ EXISTING MAIN SERVICE METERING CABINET
  - ⊠ EXISTING MAIN SERVICE 600A-120/208V CDP SHALL REMAIN. REFER TO SCHEMATIC DETAIL.
  - ⊠ EXISTING EXTERIOR PAD MOUNTED TRANSFORMER.
  - ⊠ EXISTING 120/208V PANEL 'A' SHALL REMAIN. REFER TO SCHEMATIC DETAIL.
  - ⊠ EXISTING 75KVA TRANSFORMER SHALL REMAIN.
  - ⊠ EXISTING 347/600V PANEL '6A' SHALL REMAIN.
  - ⊠ NEW 120/208V CDP-6B. REFER TO SCHEMATIC DETAIL.
  - ⊠ EXISTING PLYWOOD BACKBOARD.
  - ⊠ EXISTING TELOD CABINET SHALL REMAIN.
  - ⊠ UTILIZE EXISTING SPACE IN MAIN DISTRIBUTION FOR NEW CDP BREAKER. REFER TO SINGLE LINE DRAWING FOR BREAKER AND FEEDER SIZE.



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 NUMBER 52  
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 DISCIPLINE: SASK. REG. NO. 9273  
 ELECTRICAL  
 12649

**number TEN architectural group**  
 Winnipeg Office: 204 942 9761  
 Victoria Office: 250 344 2106  
 architecture • interior design • planning

GOVERNMENT OF CANADA  
 Multi Purpose Training Facility  
 Mechanical Renovation  
 Regina, SK.

project  
 ELECTRICAL POWER & SYSTEMS  
 PLAN & SYMBOL SCHEDULE

sheet title  
**R** Ritenburg & Associates Ltd.  
 Consulting Electrical Engineers  
 #200-2222 Alton Street, Regina, SK S4P 2V2  
 P: (306) 569-1303 F: (306) 569-1307  
 Email: r@ritenburg.com

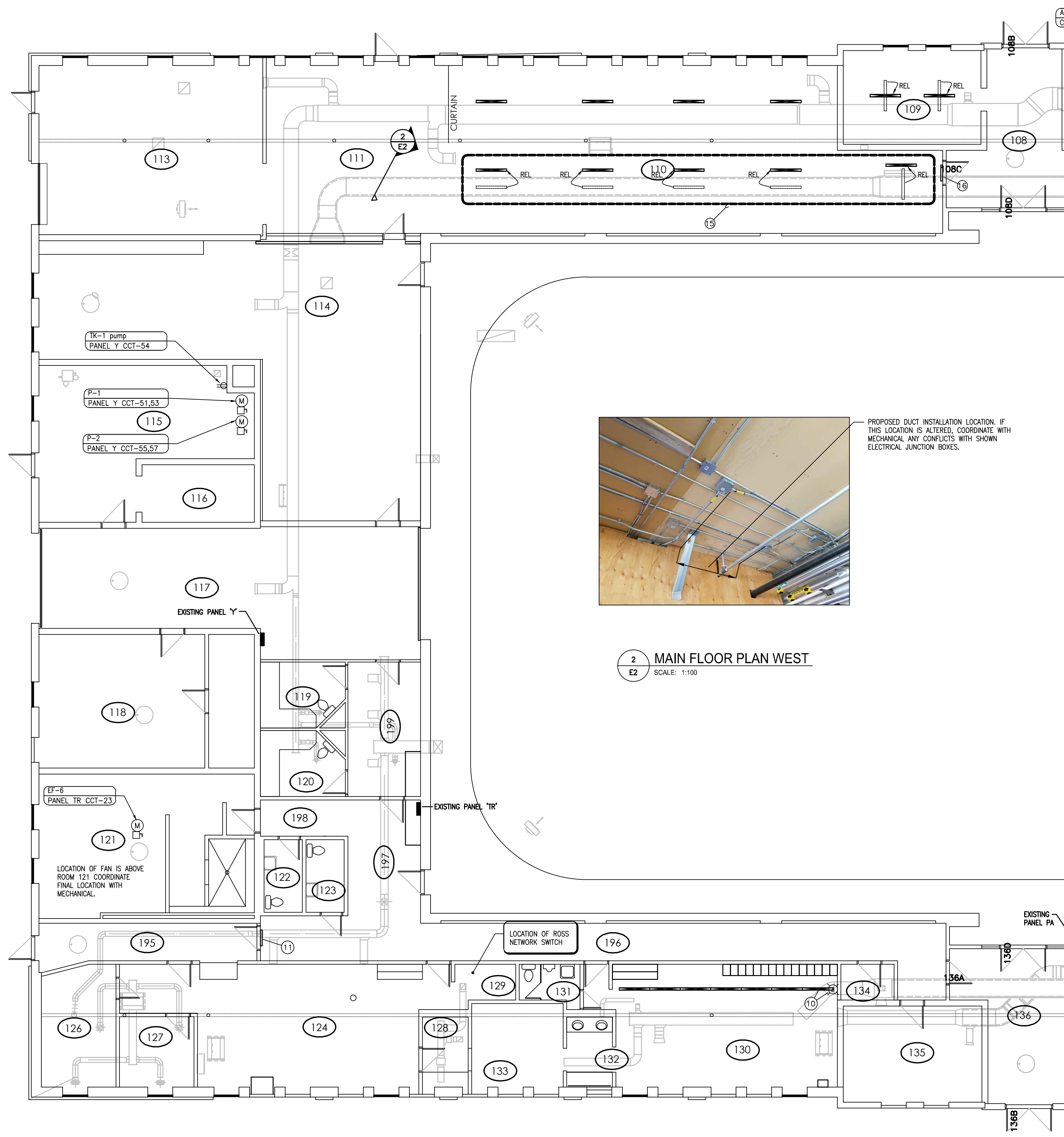
scale: AS NOTED  
 date: Dec 19/16  
 drawn by: GTK  
 checked by: SBK  
 project no.: 2016041.01  
 sheet no.: E1

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 LAYOUT NAME: E1



**DRAWING NOTE:**

- ① DISCONNECT EXISTING UNIT HEATER AND RECONNECT AT NEW LOCATION. EXTEND BRANCH CIRCUITRY TO NEW LOCATION AS SHOWN.
- ② DISCONNECT EXISTING FORCE FLOW HEATER AND RECONNECT AT NEW LOCATION. EXTEND BRANCH CIRCUITRY TO NEW LOCATION AS SHOWN.
- ③ DISCONNECT EXISTING UNIT HEATER AND CONNECT NEW UNIT HEATER TO EXISTING BRANCH CIRCUITRY.
- ④ RUN NEW FEEDERS AT GRADE AND PROVIDE UNISTRUT SUPPORT MOUNTED TO THE CONDENSER PAD BETWEEN UNIT AND THE EXTERIOR WALL. STUB INTO BUILDING AT FLOOR LEVEL AND RISE UP TO THE CEILING AND RUN SURFACE MOUNTED BACK TO THE DISTRIBUTION. PROVIDE A WEATHER TIGHT SEAL AT THE WALL PENETRATION AND FIRE STOPPING WHERE FEEDERS PASS THROUGH A FIRE RATED WALL. DRILLING INTO EXTERIOR BRICK WILL NOT BE ACCEPTED. LIMIT DRILLING TO MORTAR JOINTS.
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- ⑩ REMOVE EXISTING LIGHT FIXTURE AND RELOCATE EXISTING JUNCTION BOX.
- ⑪ LOWER EXIT SIGN AS REQUIRED TO ACCOMMODATE NEW DUCTWORK.
- ⑫ MOUNT NEW MECHANICAL FEEDER CONDUITS ALONG THIS WALL AS POSSIBLE. COORDINATE WITH EXISTING CONDUITS IN THIS AREA. PROVIDE FIRE STOPPING WHERE FEEDERS PASS THROUGH A FIRE RATED WALL.
- ⑬ APPROXIMATE LOCATION OF '19' 200mm X 200mm RCMP SECURITY JUNCTION BOX.
- ⑭ PROVIDE NEW JUNCTION BOX IN ROOM 138 TO REPLACE EXISTING FIRE ALARM JUNCTION BOX. PROVIDE NEW SIGNAL DEVICE FEED FROM MAIN FIRE ALARM PANEL TO EXISTING HORN/STROBE, AND RE-TERMINATE ALL DEVICES AFFECTED BY THIS RELOCATION.
- ⑮ EXISTING LIGHTS ARE FED FROM ABOVE DRYWALL CEILING WITH JUNCTION BOX AT FIXTURE POKING THROUGH. REMOVE EXISTING FIXTURE JUNCTION BOX, PROVIDE NEW EMT TO NEW LOCATION, AND PROVIDE NEW FIXTURE JUNCTION BOX POKING THROUGH CEILING. PROVIDE NEW WIRING FROM LOCAL PANEL TO LIGHT FIXTURE.
- ⑯ RELOCATE EXISTING EXIT SIGN TO ACCOMMODATE NEW DUCTWORK.



**2 MAIN FLOOR PLAN WEST**  
SCALE: 1:100

**1 MAIN FLOOR PLAN WEST**  
SCALE: 1:100

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NUMBER 52  
PERMISSION TO CONSULT HELD BY:  
DISCIPLINE: ELECTRICAL 9273  
SIGNATURE: [Signature]  
12649

**number TEN architectural group**  
Winnipeg Office 204 942.0781  
Victoria Office 250 344.2106  
architecture • interior design • planning

GOVERNMENT OF CANADA  
Multi Purpose Training Facility  
Mechanical Renovation  
Regina, SK.

project  
ELECTRICAL POWER & SYSTEMS  
PLAN & SYMBOL SCHEDULE

sheet title  
**R** Ritenburg & Associates Ltd  
Consulting Electrical Engineers  
2200-2222 Albert Street, Regina, SK S4P 2X2  
P: (306) 569-1303 F: (306) 569-1307  
Email: ra@ritenburg.com

consultant

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drawn by: GTK  
checked by: SBK  
project no.: 2016041.01  
sheet no.: **E2**

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PLOT: 2016-12-19 10:00 AM

# MOTOR & EQUIPMENT SCHEDULE

Item	Description	H.P.	Volt	∅	F.L.A.	M.C.A	Starter	Size	Starter Location	Brkr	Feeder	Panel	Notes
AHU-2	AIR HANDLING UNIT	3	208	3	11.8		VFD			20A-3P	3 #12 + #12 INS. BOND IN 21C.	CDP-6B	SEE NOTE 4
RF-2	RETURN AIR FAN	2	208	3			FVNR		ADJACENT TO UNIT	15A-3P	3 #12 + #12 INS. BOND IN 21C.	CDP-6B	SEE NOTE 2
AHU-3	AIR HANDLING UNIT	3	208	3	11.8		VFD			20A-3P	3 #8 + #12 INS. BOND IN 21C.	CDP-6B	SEE NOTE 4
RF-3	RETURN AIR FAN	2	208	3			FVNR		ADJACENT TO UNIT	15A-3P	3 #10 + #12 INS. BOND IN 21C.	CDP-6B	SEE NOTE 2
AHU-4	AIR HANDLING UNIT	5	208	3	16.7		VFD			30A-3P	3 #10 + #10 INS. BOND IN 21C.	CDP-6B	SEE NOTE 4
RF-4	RETURN AIR FAN	3	208	3			FVNR		ADJACENT TO UNIT	15A-3P	3 #12 + #12 INS. BOND IN 21C.	CDP-6B	SEE NOTE 2
P-1	GLYCOL PUMP	.5	208	1			VFD			15A-2P	2 #12 + #12 INS. BOND IN 21C.	PANEL 'Y'	SEE NOTE 4, NOTE 7
P-2	GLYCOL PUMP	.5	208	1			VFD			15A-2P	2 #12 + #12 INS. BOND IN 21C.	PANEL 'Y'	SEE NOTE 4, NOTE 7
TK-1 pump	PUMP	FR.	115	1						15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL 'Y'	PROVIDE DUPLEX RECEPTACLE ADJACENT TO UNIT SEE NOTE 7.
EF-6	EXHAUST FAN (ABOVE ROOM 121)		115	1		3.6				15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL 'TR'	PROVIDE DISCONNECT AT UNIT. SEE NOTE 7
CU-2	CONDENSER UNIT FOR AHU-2		208	3		56.5				70A-3P	3 #4 + #4 INS. BOND IN 21C.	CDP-6B	SINGLE POINT CONNECTION. SEE NOTE 3
CU-3	CONDENSER UNIT FOR AHU-3		208	3		64.7				80A-3P	3 #2 + #2 INS. BOND IN 41C.	CDP-6B	SINGLE POINT CONNECTION. SEE NOTE 3
CU-4	CONDENSER UNIT FOR AHU-4		208	3		120.3				150A-3P	3 #1/0 + #1/0 INS. BOND IN 53C.	CDP-6B	SINGLE POINT CONNECTION. SEE NOTE 3
UH-9	UNIT HEATER		1/3	208	1					15A-1P	2 #10 + #12 INS. BOND IN 21C.	PANEL 'D'	
CUR-1	AIR CURTAIN		4 X.5	208	1					50A-2P	2 #3 + #10 INS. BOND IN 35C.	CDP-6B	SINGLE POINT CONNECTION. SEE NOTE 6

Equip  
Cct #

TAG INDICATES EQUIPMENT LOCATION ON PLAN

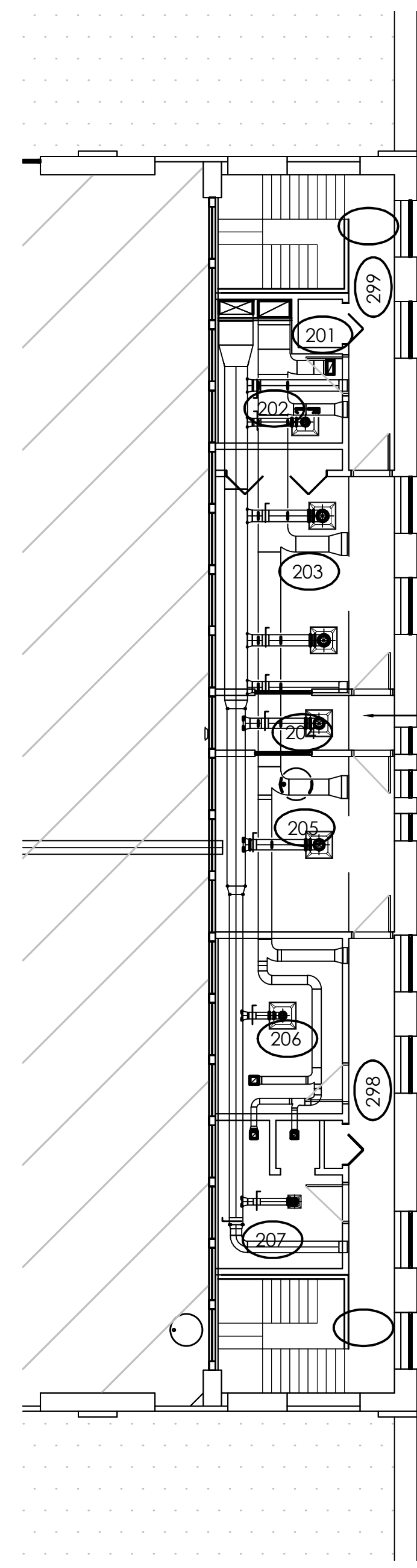
## MECHANICAL EQUIPMENT SCHEDULE NOTES

- UNIT IS COMPLETE WITH STARTER LOCATED IN CONTROL PANEL BY MECHANICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL PROVIDE STARTER. COORDINATE WITH MECHANICAL EQUIPMENT SHOP DRAWINGS.
- PROVIDE A WEATHERPROOF DISCONNECT AT UNIT. PROVIDE A CFIC DUPLEX RECEPTACLE MOUNTED UP 900mm ABOVE FINISHED GRADE ON THE BUILDING ADJACENT TO CONDENSER UNIT.
- UNIT IS COMPLETE WITH PACKAGED VFD BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING TO VFD AND FROM VFD TO MOTOR.
- PROVIDE A FIRE ALARM RELAY MODULE AND INTERCONNECT TO THE AIR HANDLING UNIT SUPPLY AND RETURN FAN VFD'S FOR SHUT UNIT DOWN OF THE AIR HANDLING UNIT UPON ACTIVATION OF THE FIRE ALARM SYSTEM.
- UNIT IS C/W STARTERS AND CONTROL PANEL FOR SINGLE POINT CONNECTION. ALL FOUR MOTORS RUN AT THE SAME TIME.
- PROVIDE NEW BREAKERS IN EXISTING PANELS.

NOTE:  
 - CONDUCTOR/CONDUIT SIZES SHOWN IN THE EQUIPMENT SCHEDULE ARE MINIMUM SIZES. FEEDERS SHALL BE ADJUSTED ACCORDINGLY TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%.  
 - PROVIDE DISCONNECTS AT UNITS AS INDICATED ON THE DRAWINGS.

## ABBREVIATION LEGEND

VFD - VARIABLE FREQUENCY DRIVE  
 FVNR - FULL VOLTAGE NON-REVERSING STARTER  
 SEP. COMB. - SEPARATE COMBINATION STARTER/DISCONNECT  
 TP. SW. - THERMAL SWITCH WITH PILOT LIGHT  
 1∅ MAG - SINGLE PHASE MAGNETIC STARTER/DISCONNECT



DEMOLITION NOTES:  
 1 DISCONNECT EXISTING FANS THAT ARE BEING REMOVED AND REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO THE SOURCE. REFER TO MECHANICAL DEMOLITION PLANS FOR EXACT LOCATION.

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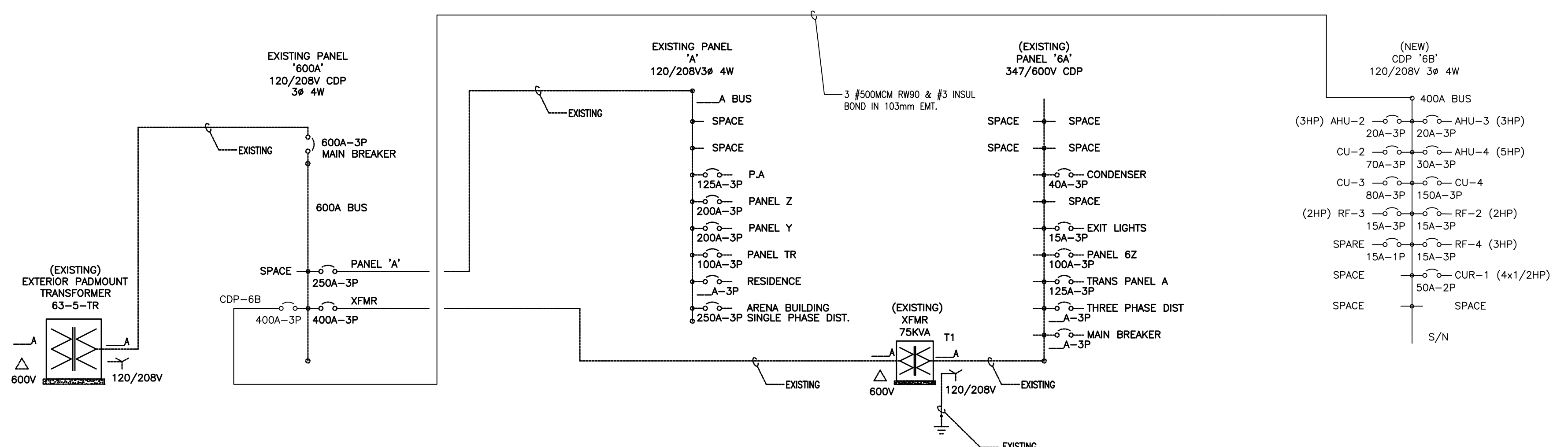
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 12649

3 SECOND FLOOR PLAN  
 E3 SCALE: 1:100



1 EXISTING DISTRIBUTION SINGLE LINE  
 E3 NTS 120/208V - 3∅ - 4W

2 NEW DISTRIBUTION SINGLE LINE  
 E3 NTS 120/208V - 3∅ - 4W

**number TEN architectural group**

Winnipeg Office: 204-942-0781  
 Victoria Office: 250-344-2106

architecture • interior design • planning

GOVERNMENT OF CANADA  
 Multi Purpose Training Facility  
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project

ELECTRICAL DISTRIBUTION AND SECOND FLOOR PLAN AND MOTOR & EQUIPMENT SCHEDULE

sheet title

consultant

**Ritenburg & Associates Ltd.**  
 Consulting Electrical Engineers

2200-2222 Albert Street, Regina, SK S4P 2V2  
 P: (306) 569-1303 F: (306) 569-1307  
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