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KEY TO DETAIL LOCATION
No. DETAIL NUMBER
Drawing Number

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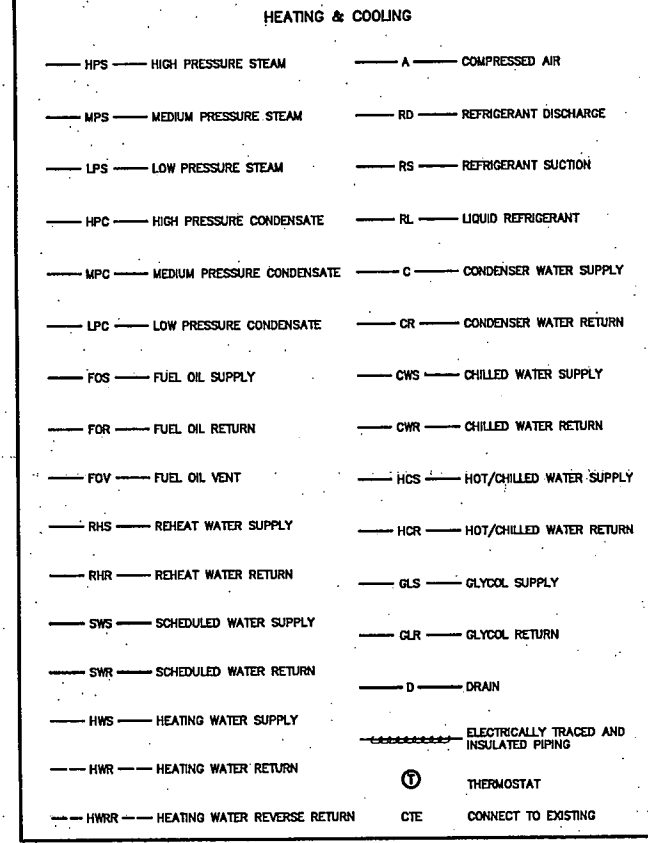
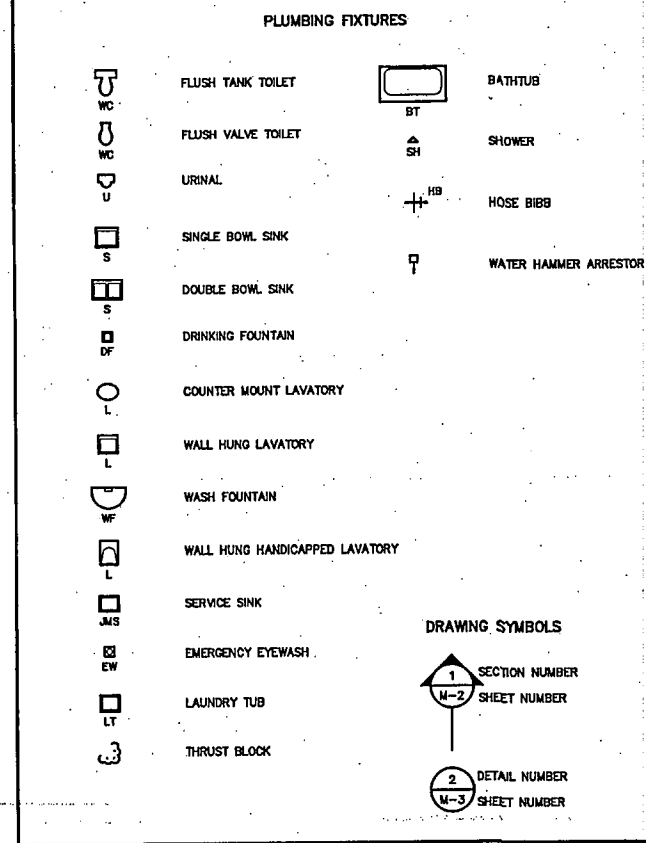
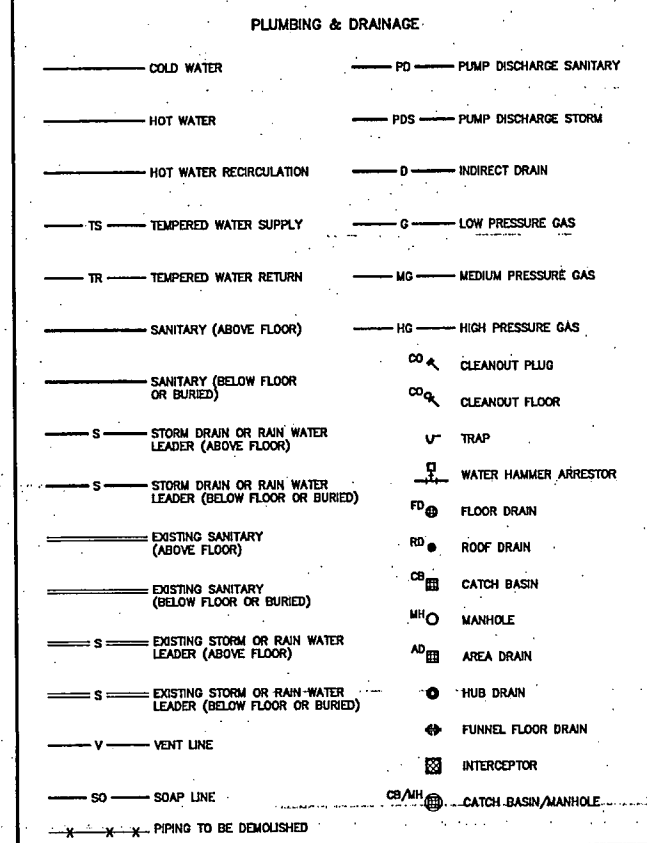
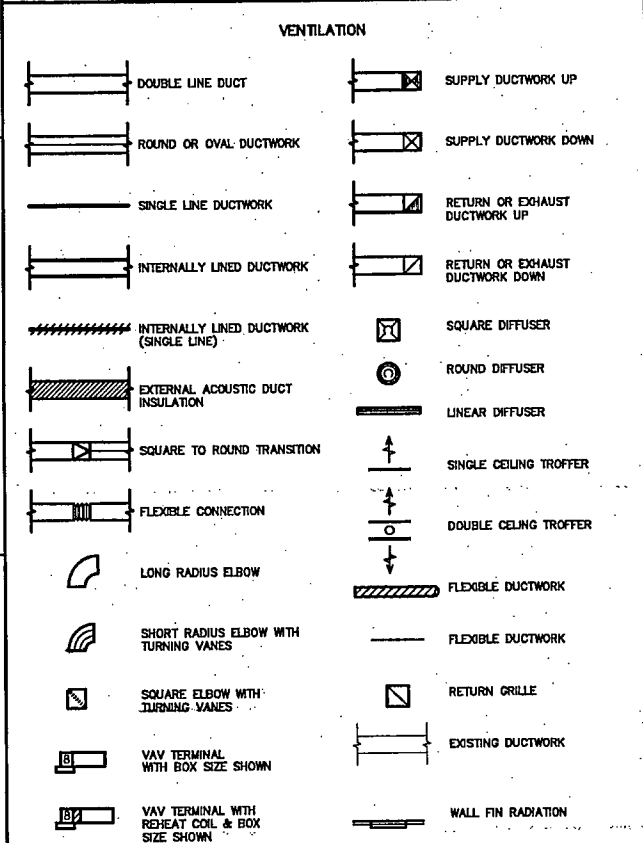
DRAWINGS SHOULD NOT BE SCALED.

NO.	REVISION/ISSUE	DATE
1	ISSUED FOR BUILDING PERMIT	07/10/22
2	ISSUED FOR CLIENT REVIEW	07/12/17
3	ISSUED FOR 80% SUBMISSION	08/01/07
4	REVISED FOR BUILDING PERMIT	08/03/24
5	ISSUED FOR TENDER	08/04/21

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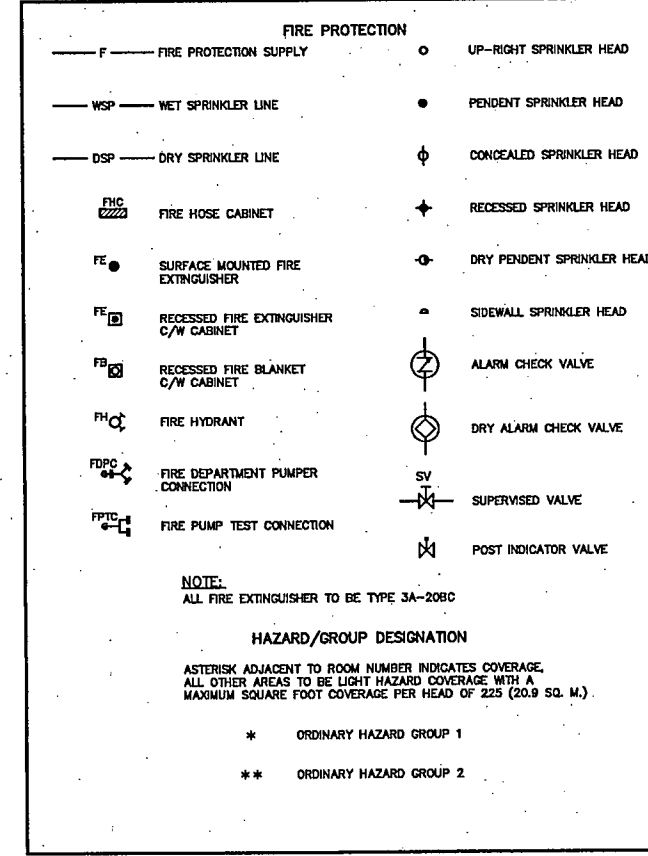
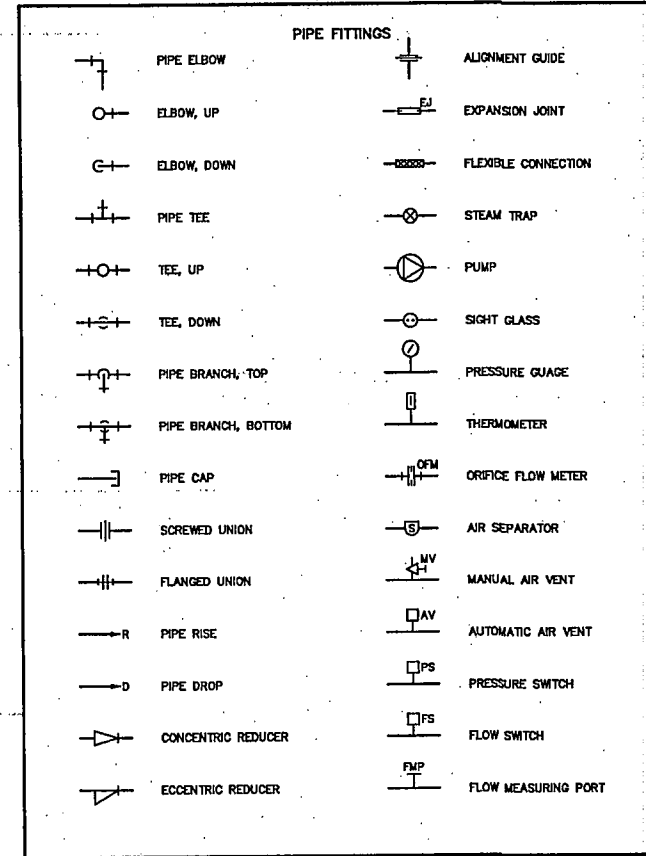
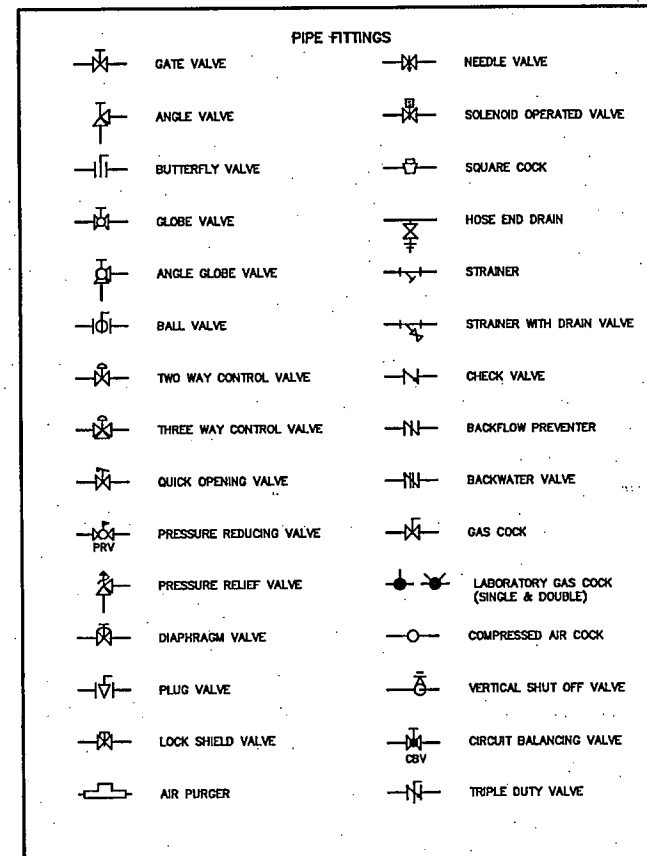
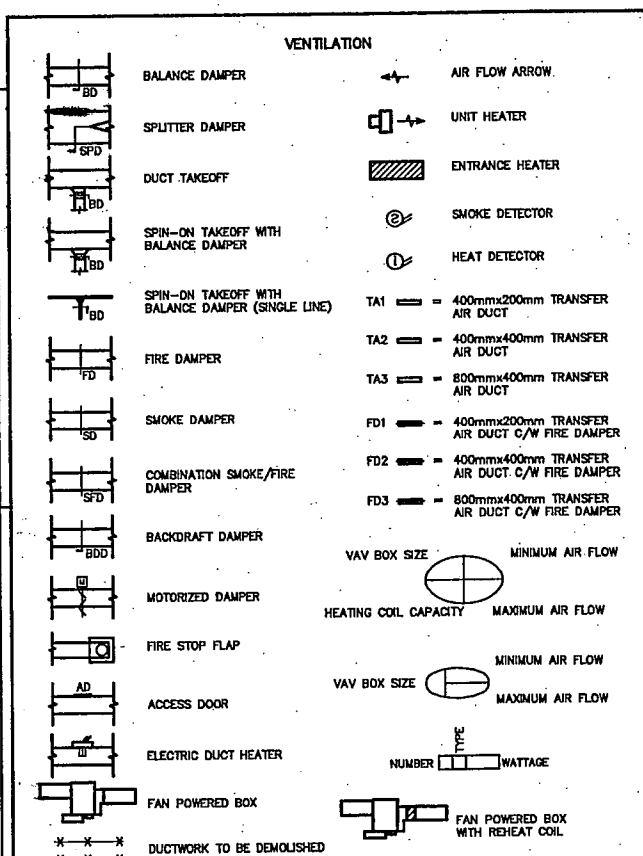
SYMBOL LEGEND

NOTE: SOME SYMBOLS ON THIS LEGEND MAY NOT APPEAR ON THE PLANS



DRAWING LIST

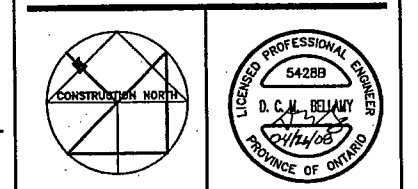
DWG. No.	DESCRIPTION	SYSTEM	SCALE
M-01	LEGEND, DRAWING LIST AND GENERAL NOTES		N.T.S.
M-02	BASEMENT FLOOR PLAN PLUMBING & DRAINAGE		1:200
M-03	GROUND FLOOR PLAN PLUMBING & DRAINAGE		1:200
M-04	SECOND FLOOR PLUMBING (PLAN AND DETAILS)		1:200
M-05	PARTIAL THIRD FLOOR PLUMBING		1:100
M-06	PARTIAL THIRD FLOOR PLUMBING		1:100
M-07	PARTIAL THIRD FLOOR PLUMBING		1:100
M-08	PARTIAL THIRD FLOOR FIRE PROTECTION		1:100
M-09	PARTIAL THIRD FLOOR FIRE PROTECTION		1:100
M-10	PARTIAL THIRD FLOOR FIRE PROTECTION		1:100
M-11	PARTIAL THIRD FLOOR HVAC (DUCTING)		1:100
M-12	PARTIAL THIRD FLOOR HVAC (DUCTING)		1:100
M-13	PARTIAL THIRD FLOOR HVAC (DUCTING)		1:100
M-11A	PARTIAL THIRD FLOOR HVAC (PIPING)		1:100
M-12A	PARTIAL THIRD FLOOR HVAC (PIPING)		1:100
M-13A	PARTIAL THIRD FLOOR HVAC (PIPING)		1:100
M-14	BASEMENT & MECHANICAL ROOM PART: PLAN AND SECTIONS		1:50
M-15	ROOF PLAN		1:200
M-16	PARTIAL THIRD FLOOR DEMOLITION		1:100
M-17	PARTIAL THIRD FLOOR DEMOLITION		1:100
M-18	PARTIAL THIRD FLOOR DEMOLITION		1:100
M/E-1	MECHANICAL EQUIPMENT SCHEDULES		N.T.S.
M/E-2	MECHANICAL EQUIPMENT SCHEDULES		N.T.S.
M/E-3	MECHANICAL EQUIPMENT SCHEDULES		N.T.S.



GENERAL NOTES

ALL EQUIPMENT AND MATERIALS LOCATED IN ANY CONCEALED SPACE USED AS A RETURN AIR PLenum SHALL CONFORM TO THE REQUIREMENTS OF ONTARIO BUILDING CODE SECTION 3.6.4.3.

THE POTABLE WATER SYSTEM SHALL BE PROTECTED AGAINST BACK SIPHONAGE FROM ANY MACHINERY OR EQUIPMENT BY A CERTIFIED CAN/CSA B1810-84 BACKFLOW PREVENTER AS PER THE ONTARIO BUILDING CODE SUBSECTION 7.6.2.



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CS&P Architects

DRAWN BY: M.C.

CHECKED BY: D.H.

DATE: MARCH 19, 2008

PROJECT TITLE:

PEEL REGIONAL POLICE SUPPORT SERVICES FACILITY
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DRAWING TITLE:

LEGEND, DRAWING LIST AND GENERAL NOTES

SCALE: N.T.S.

PROJECT NO.

5428B

DWG. NO.

M-1

Revision: 0

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KEY TO DETAIL LOCATION

No.	DETAIL NUMBER
1	100# SAN UP
2	75# SAN UP
3	75# SAN DN
4	100# SAN DN
5	100# SAN UP

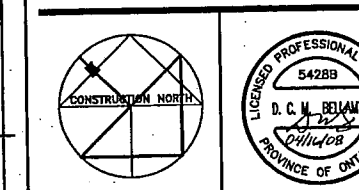
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1	ISSUED FOR BUILDING PERMIT	07/10/22
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3	ISSUED FOR 90% SUBMISSION	08/01/07
4	REVISED FOR BUILDING PERMIT	08/03/24
5	ISSUED FOR TENDER	08/04/21

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CS&P Architects

DRAWN BY: M.C.

CHECKED BY: D.H.

DATE: MARCH 19, 2008

PROJECT TITLE:

**PEEL REGIONAL
POLICE SUPPORT
SERVICES FACILITY**

180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DRAWING TITLE:

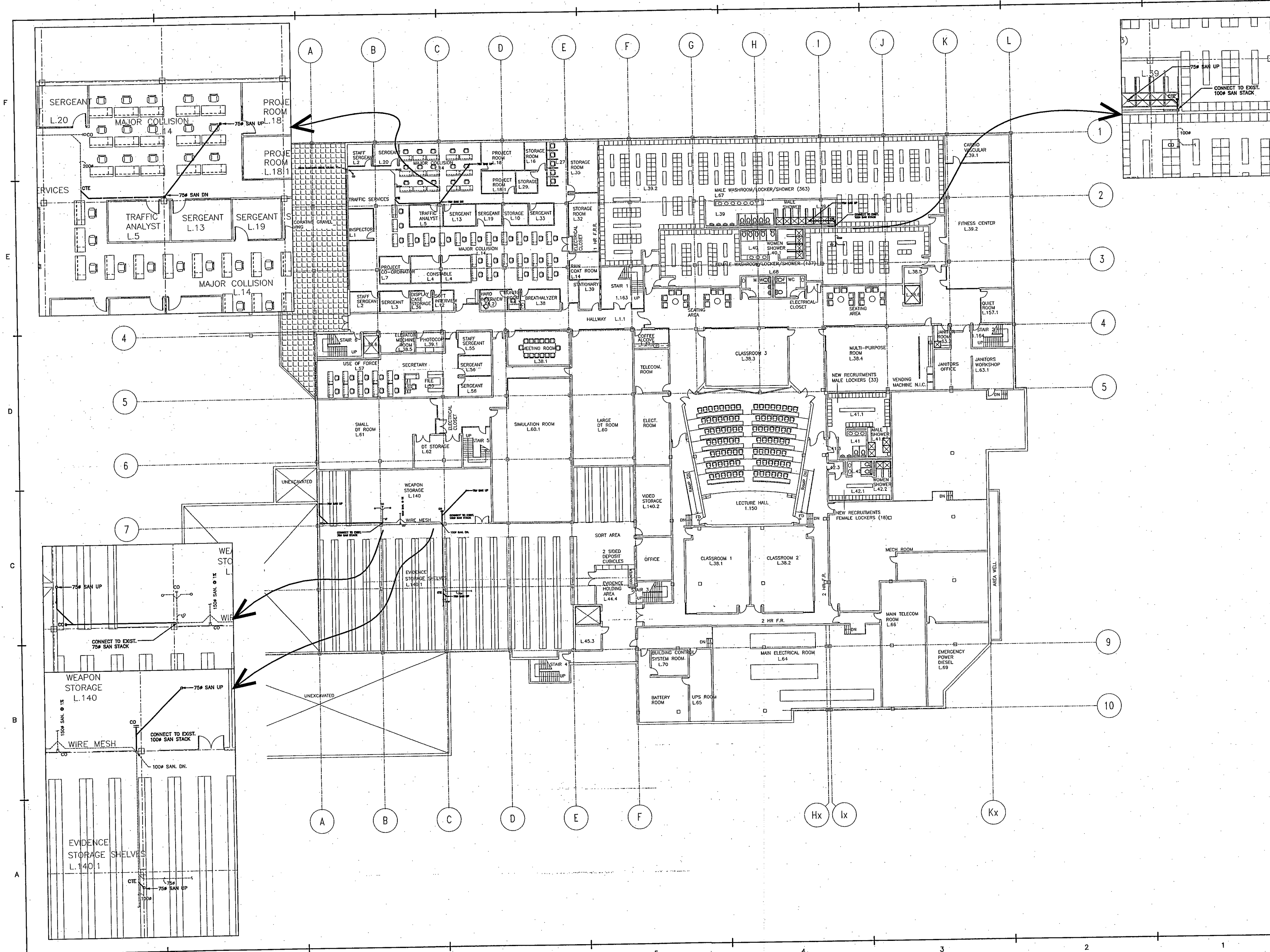
**BASEMENT FLOOR PLAN
PLUMBING & DRAINAGE**

SCALE: 1:200

PROJECT NO.

DWG. NO.

01045 M-2



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DETAIL NUMBER
DRAWING NUMBER

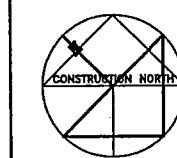
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5	ISSUED FOR TENDER	08/04/21

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CS&P Architects

DRAWN BY: M.C.

CHECKED BY: T.J.

DATE: MARCH 19, 2008

PROJECT TITLE:

**PEEL REGIONAL
POLICE SUPPORT
SERVICES FACILITY**

180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DRAWING TITLE:

**GROUND FLOOR PLAN
PLUMBING & DRAINAGE**

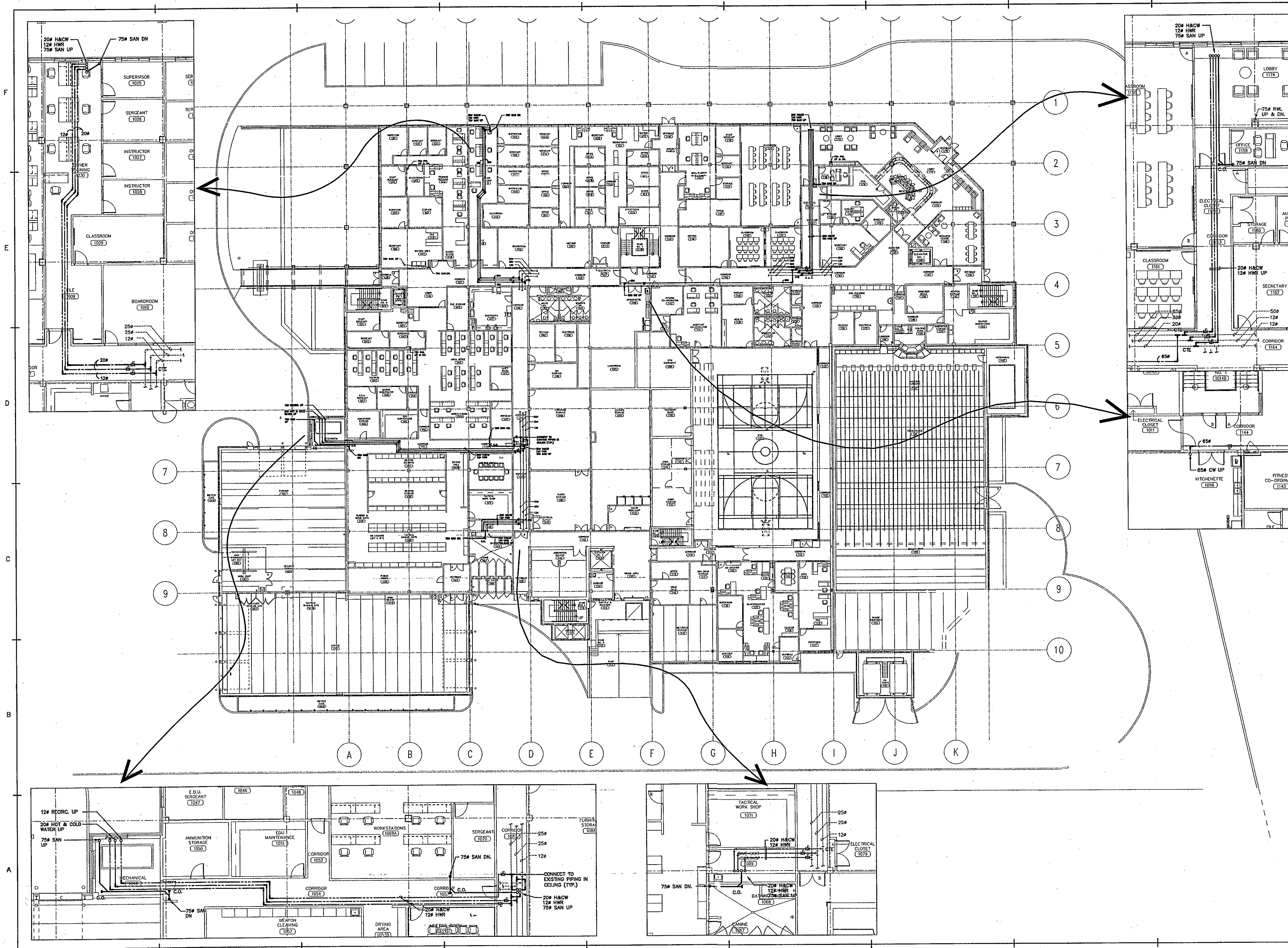
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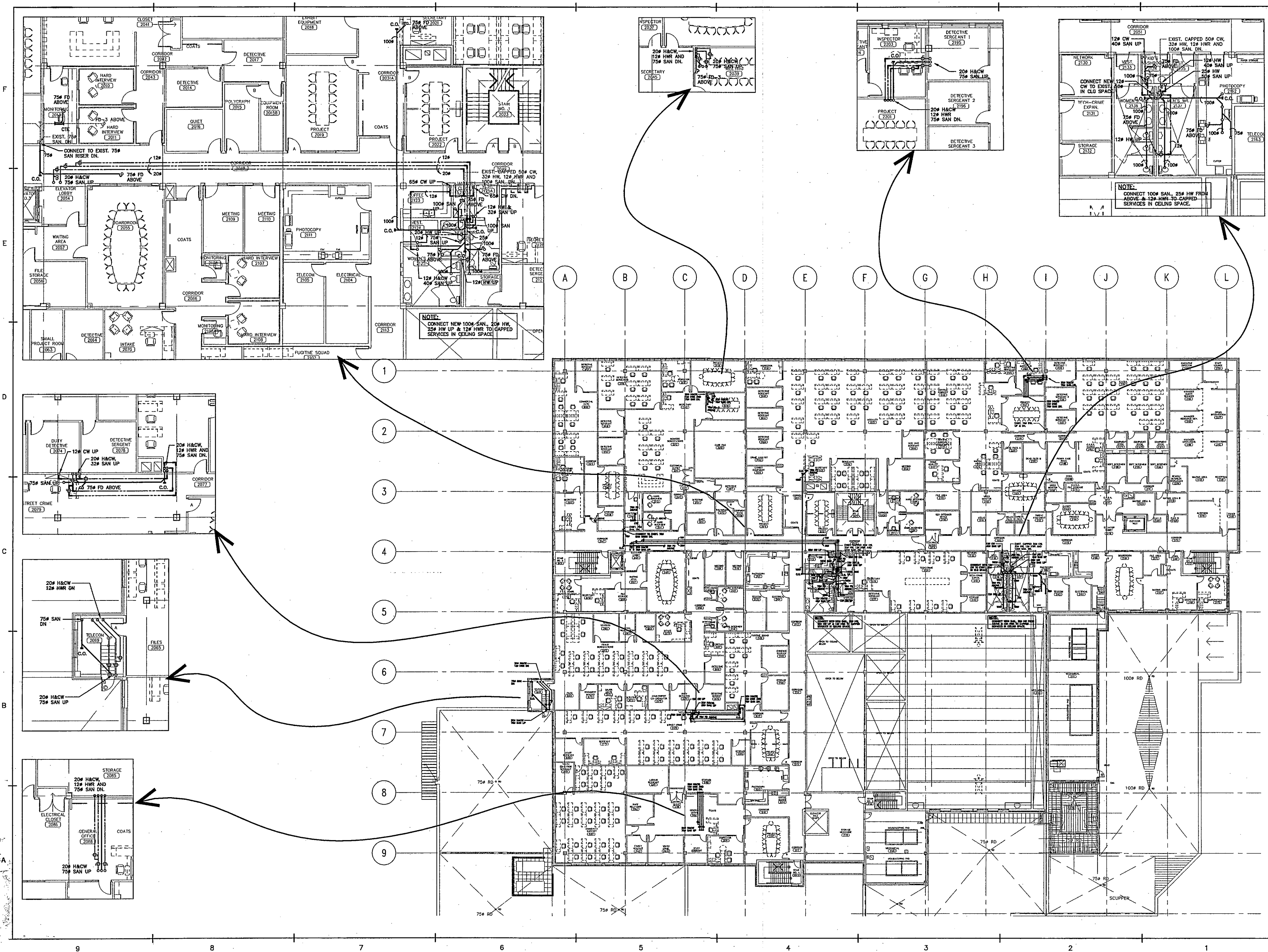
PROJECT NO.

01045

DWG. NO.

M-3





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KEY TO DETAIL LOCATION	DETAIL NUMBER	DRAWING NUMBER
1	2	3

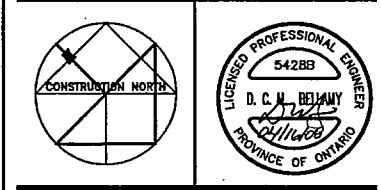
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4	REVISED FOR BUILDING PERMIT	08/03/21
5	ISSUED FOR TENDER	08/04/24

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DRAWN BY: E.B.

CHECKED BY: D.H.

DATE: MARCH 19, 2008

PROJECT TITLE:

**PEEL REGIONAL
POLICE SUPPORT
SERVICES FACILITY**

180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DRAWING TITLE:

**SECOND FLOOR
PLUMBING (PLAN
AND DETAILS)**

SCALE: 1/200

PROJECT NO.

5428B

DWG. NO.

M-4

Revision/0

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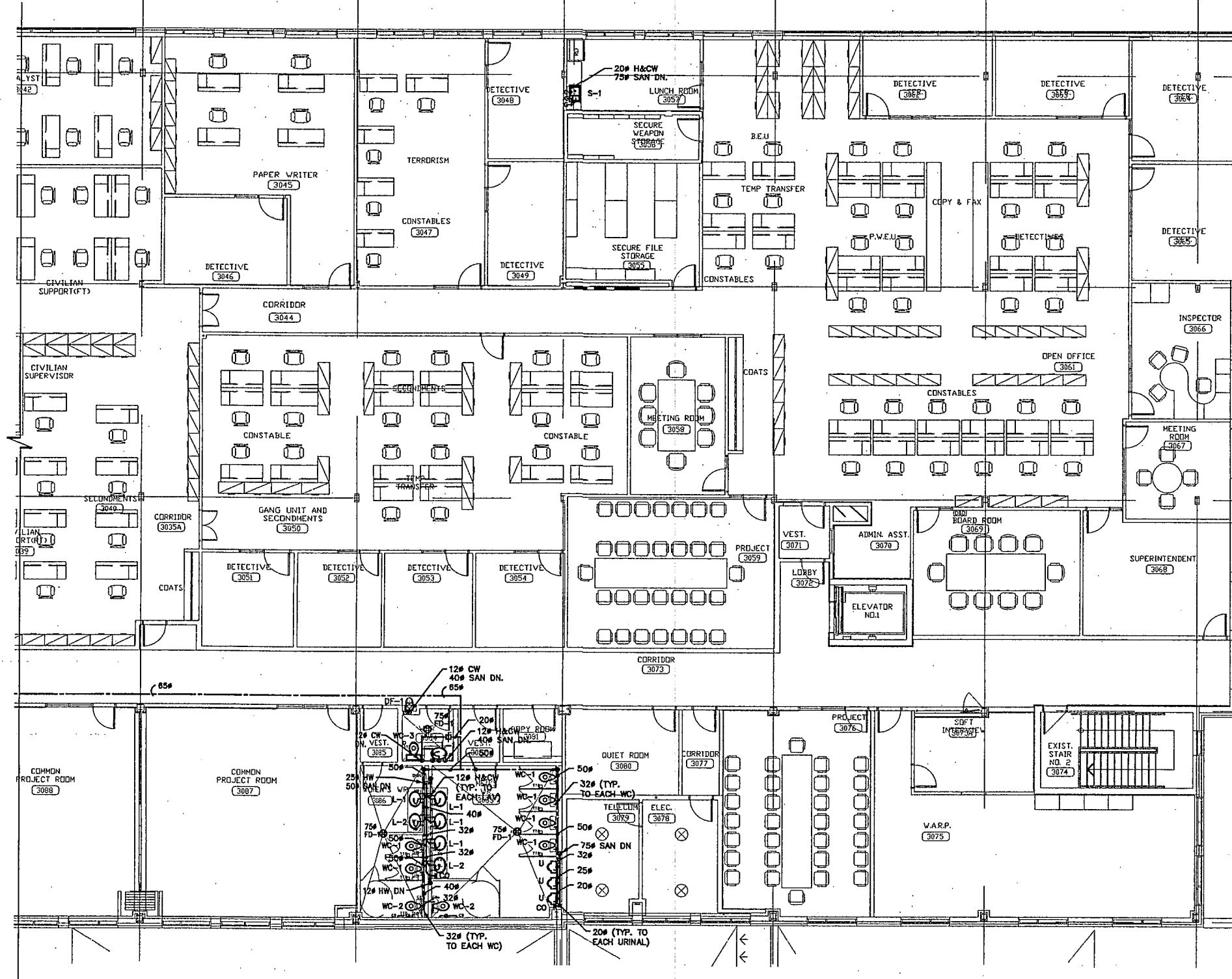
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1	ISSUED FOR BUILDING PERMIT	07/10/22
2	ISSUED FOR CLIENT REVIEW	07/12/17
3	ISSUED FOR 90% SUBMISSION	08/01/07
4	REVISED FOR BUILDING PERMIT	08/03/24
5	ISSUED FOR TENDER	08/04/21

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NOTES
1. CONNECT 100# SANITARY & COLD WATER, # HOT
WATER & 12# REFRIG TO EXISTING CAPPED SERVICES IN
CEILING OF FLOOR BELOW.

FOR CONTINUATION REFER TO DRAWING M-6



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No. DETAIL NUMBER
No. DRAWING NUMBER

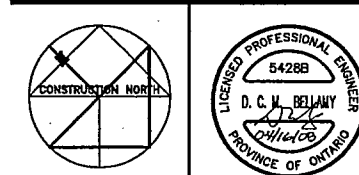
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DRAWN BY: E.B.

CHECKED BY: D.H.

DATE: MARCH 19, 2008

PROJECT TITLE:

**PEEL REGIONAL
POLICE SUPPORT
SERVICES FACILITY**
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DRAWING TITLE:

**PARTIAL
THIRD FLOOR
PLUMBING**

SCALE: 1/100

PROJECT NO.

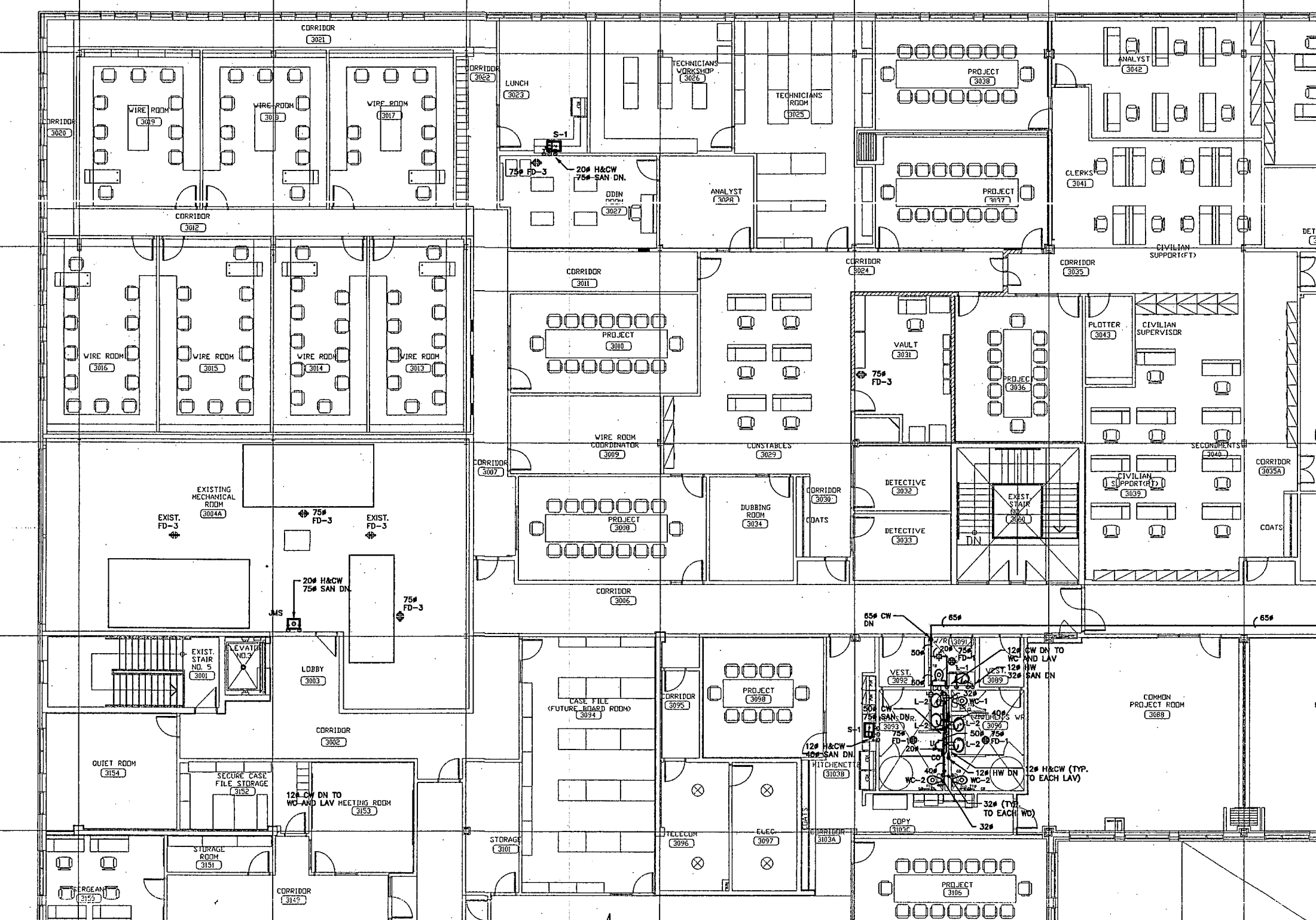
DWG. NO.

5428B

M-6

Revision 0

NOTES
1. CONNECT 100# SANITARY, & COLD WATER, & HOT
WATER & 12# REGRID TO EXISTING CAPPED SERVICES IN
CEILING OF FLOOR BELOW.



FOR CONTINUATION REFER TO DRAWING M-7

FOR CONTINUATION REFER TO DRAWING M-5

FOR CONTINUATION REFER TO DRAWING M-6

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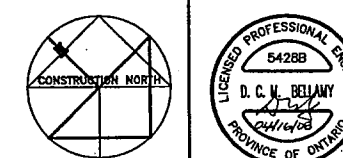
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1	ISSUED FOR BUILDING PERMIT	07/10/22
2	ISSUED FOR CLIENT REVIEW	07/12/17
3	ISSUED FOR 60% SUBMISSION	08/01/07
4	REVISED FOR BUILDING PERMIT	08/03/24
5	ISSUED FOR TENDER	08/04/21

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DRAWN BY: E.B.

CHECKED BY: D.H.

DATE: MARCH 19, 2008

PROJECT TITLE:

**PEEL REGIONAL
POLICE SUPPORT
SERVICES FACILITY**
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DRAWING TITLE:

**PARTIAL
THIRD FLOOR
PLUMBING**

SCALE: 1/100

PROJECT NO.

DWG. NO.

5428B

M-7

Revisions

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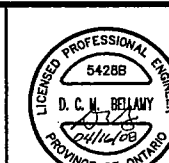
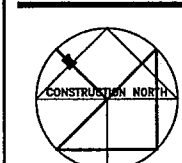
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DRAWN BY: E.B.

CHECKED BY: D.H.

DATE: MARCH 19, 2008

PROJECT TITLE:

**PEEL REGIONAL
POLICE SUPPORT
SERVICES FACILITY**
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DRAWING TITLE:

**PARTIAL
THIRD FLOOR
FIRE PROTECTION**

SCALE: 1/100

PROJECT NO.

5428B

DWG. NO.

M-8

Revision 0

FOR CONTINUATION REFER TO DRAWING M-9

NOTES:
1 LOCATION OF EXISTING SPRINKLER CONTROL VALVES, NEW
VALVE CABINET TO BE INSTALLED.
2 EXISTING SPRINKLER HEADS TO BE REVISED FROM UPRIGHT
TO PENDENT TYPE HEADS.

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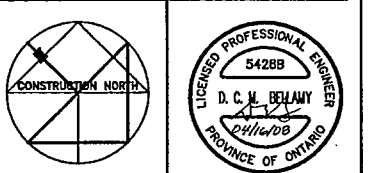
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CS&P Architects

DRAWN BY: E.B.

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DATE: MARCH 19, 2008

PROJECT TITLE:

**PEEL REGIONAL
POLICE SUPPORT
SERVICES FACILITY**
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DRAWING TITLE:

**PARTIAL
THIRD FLOOR
FIRE PROTECTION**

SCALE: 1/100

PROJECT NO.

5428B

DWG. NO.

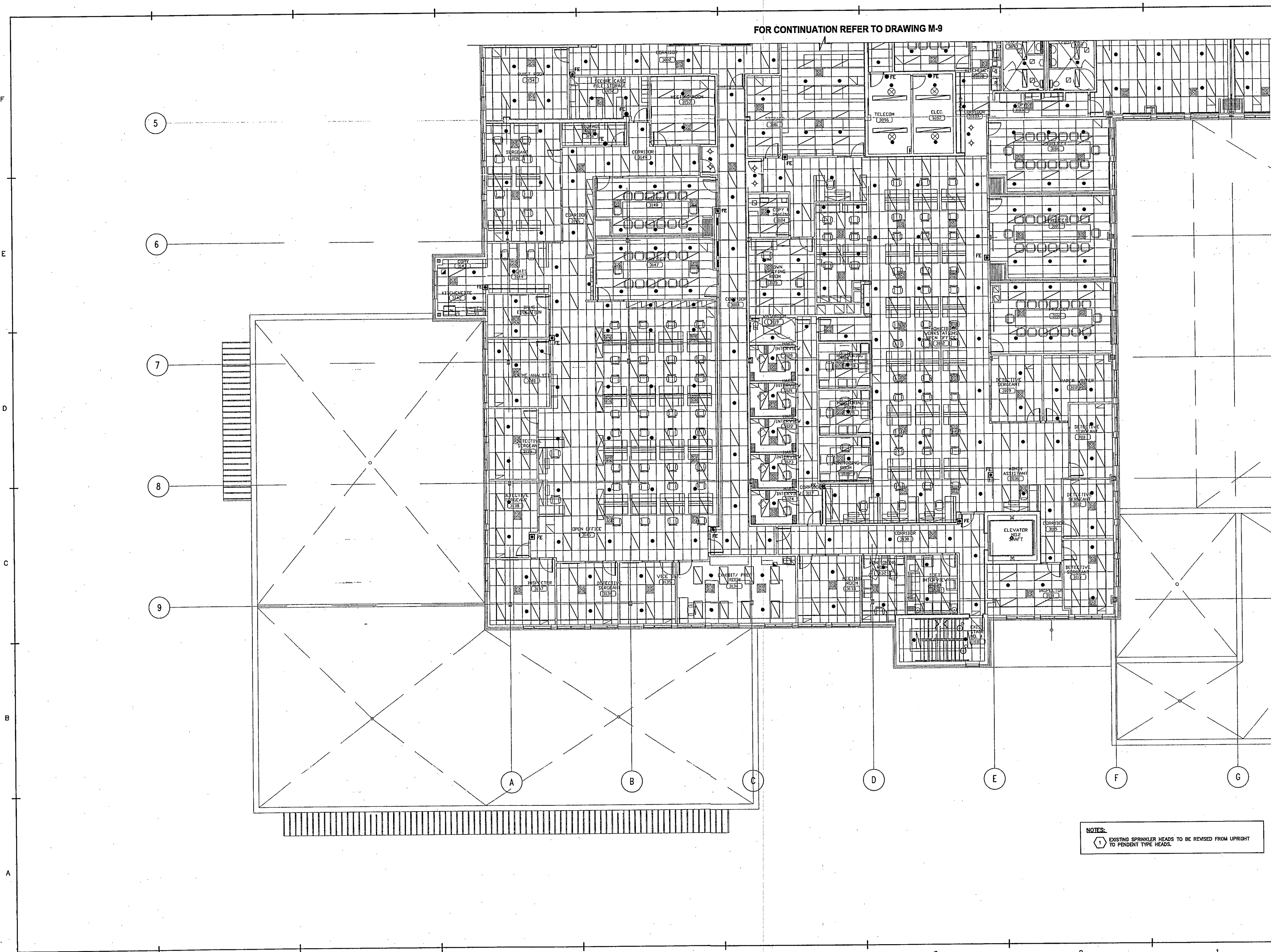
M-9

Revision: 0

FOR CONTINUATION REFER TO DRAWING M-8

FOR CONTINUATION REFER TO DRAWING M-10

- NOTES:
- EXISTING WINDOW SPRINKLER SYSTEM TO REMAIN.
 - LOCATION OF EXISTING SPRINKLER CONTROL VALVES, NEW VALVE CABINET TO BE INSTALLED.
 - LOCATION OF NEW DOUBLE INTERLOCKED PREACTION SPRINKLER SYSTEM.
 - EXISTING SPRINKLER HEADS TO BE REVISED FROM UPRIGHT TO PENDENT TYPE HEADS.
 - PREACTION SYSTEM TO BE AS MANUFACTURED BY VIKING SPRINKLERS "TRIMPAC" MODEL B-5 C/W 50mm MODEL F1 DELUGE VALVE AND ALL FITTINGS.



FOR CONTINUATION REFER TO DRAWING M-9

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KEY TO DETAIL LOCATION	DETAIL NUMBER
No. No.	DRAWING NUMBER

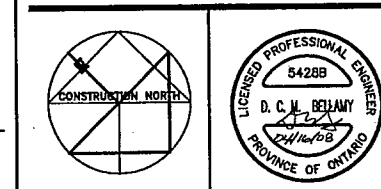
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DRAWINGS SHOULD NOT BE SCALED.

NO.	REVISION/ISSUE	DATE
1	ISSUED FOR BUILDING PERMIT	07/10/22
2	ISSUED FOR CLIENT REVIEW	07/12/17
3	ISSUED FOR 90% SUBMISSION	08/01/07
4	REVISED FOR BUILDING PERMIT	08/03/24
5	ISSUED FOR TENDER	08/04/21

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 www.csandp.com

DRAWN BY: E.B.
 CHECKED BY: D.H.
 DATE: MARCH 19, 2008
 PROJECT TITLE:

PEEL REGIONAL POLICE
SUPPORT SERVICES FACILITY
 180 DERRY ROAD EAST
 MISSISSAUGA, ONTARIO

DRAWING TITLE:

PARTIAL THIRD FLOOR FIRE PROTECTION

SCALE: 1/100
 PROJECT NO. 5428B
 DWG. NO. M-10

Revision 0

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PRINT - READ DWG. ACCORDINGLY

KEY TO DETAIL LOCATION

NO.	DETAIL	NUMBER
1	NO.	DRAWING NUMBER

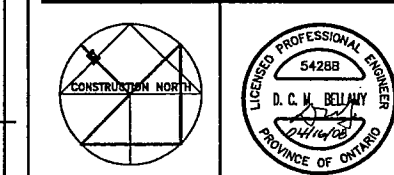
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DRAWINGS SHOULD NOT BE SCALED.

NO.	REVISION/ISSUE	DATE
1	ISSUED FOR BUILDING PERMIT	07/10/22
2	ISSUED FOR CLIENT REVIEW	07/12/17
3	ISSUED FOR 80% SUBMISSION	08/01/07
4	REVISED FOR BUILDING PERMIT	08/03/24
5	ISSUED FOR TENDER	08/04/21

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CS&P Architects

DRAWN BY: M.C.

CHECKED BY: D.H.

DATE: MARCH 19, 2008

PROJECT TITLE:



180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DRAWING TITLE:

**PARTIAL
THIRD FLOOR
HVAC**

SCALE: 1:100

PROJECT NO.

DWG. NO.

5428B M-11

Revision 0

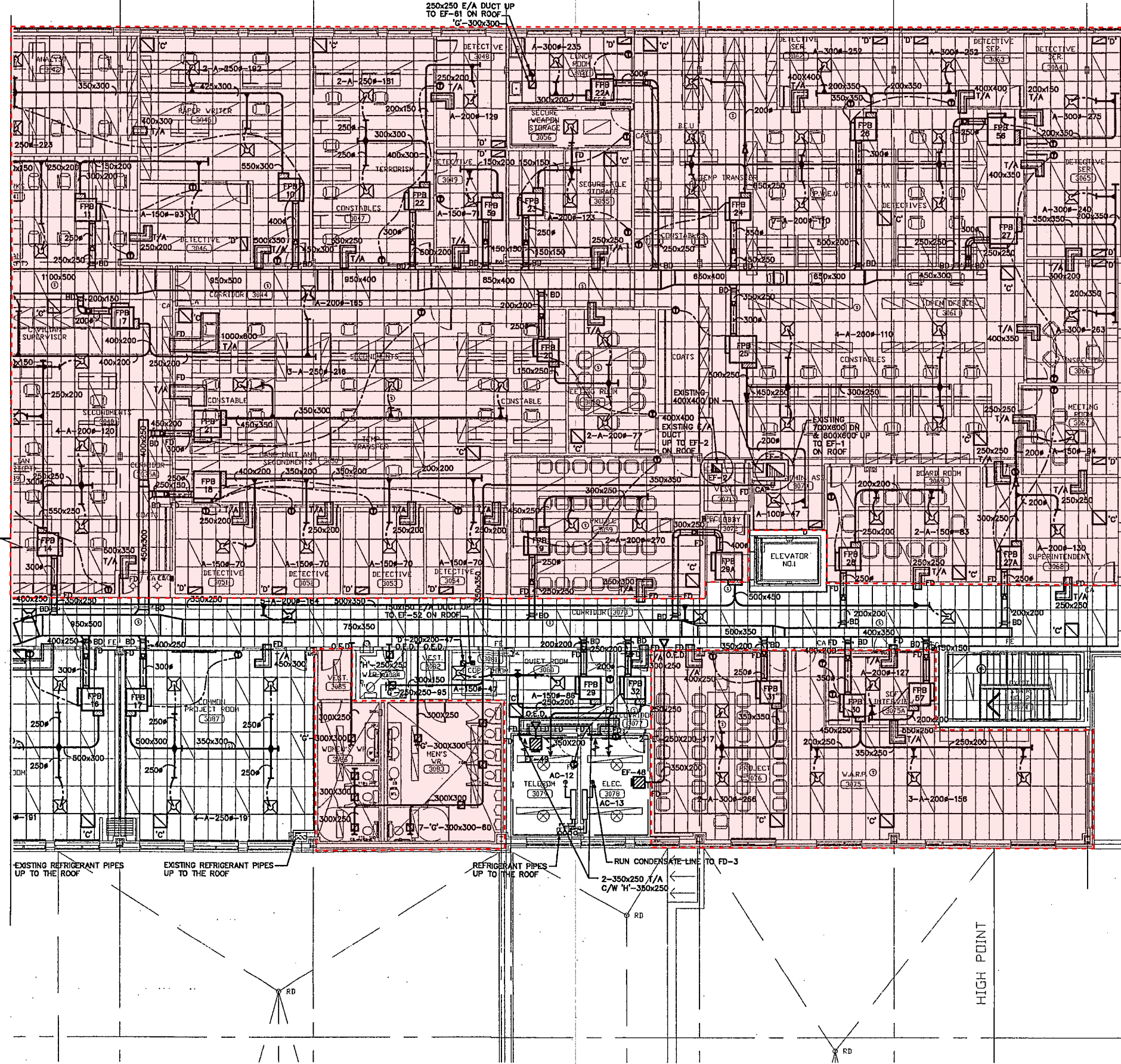
FOR CONTINUATION REFER TO DRAWING M-12

REGISTERS, GRILLES & DIFFUSERS SCHEDULE

SYMBOL CLARIFICATION C-250#-800 C-UNIT REFERENCE
250#-UNIT SIZE 800#-AIR QUANTITY L/S

TYPE	STYLE	MODEL No.	CLG. TYPE	REMARKS
A	DIFFUSER	600x800/SCD/31/3C/B12	T-BAR	NECK SIZES ON DWGS.
B	DIFFUSER	300x300/SCD/31/3C/B12	T-BAR	NECK SIZES ON DWGS.
C	GRILLE	600x800/80/TB/B12	T-BAR	CORE ONLY
D	GRILLE	600x300/80/TB/B12	T-BAR	CORE ONLY
E	GRILLE	720D/F/S/A	SIDEWALL	SIZE ON DWGS.
F	GRILLE	80/TB/B12	DRYWALL/T-BAR	SIZE ON DWGS.
G	GRILLE	530D/F/L/A/B12	EXHAUST	SIZE ON DWGS.
H	GRILLE	530/F/L/A/B12	TRANSFER AIR	SIZE ON DWGS.
I	DIFFUSER	300x300/SCD/3C/B12	DRYWALL	NECK SIZES ON DWGS.
J	GRILLE	720/F/S/A	SIDEWALL	NECK SIZES ON DWGS.

- NOTES:
1. ALL ABOVE SELECTIONS ARE BASED ON "PRICE" COMPONENTS.
 2. EXACT LOCATION TO BE COORDINATED WITH ARCHITECT



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KEY TO DETAIL LOCATION	
No.	DETAIL NUMBER
1	DRAWING NUMBER

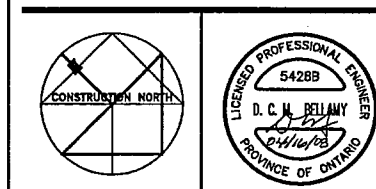
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NO.	REVISION/ISSUE	DATE
1	ISSUED FOR BUILDING PERMIT	07/10/22
2	ISSUED FOR CLIENT REVIEW	07/12/17
3	ISSUED FOR 90% SUBMISSION	08/01/07
4	REVISED FOR BUILDING PERMIT	08/03/24
5	ISSUED FOR TENDER	08/04/21

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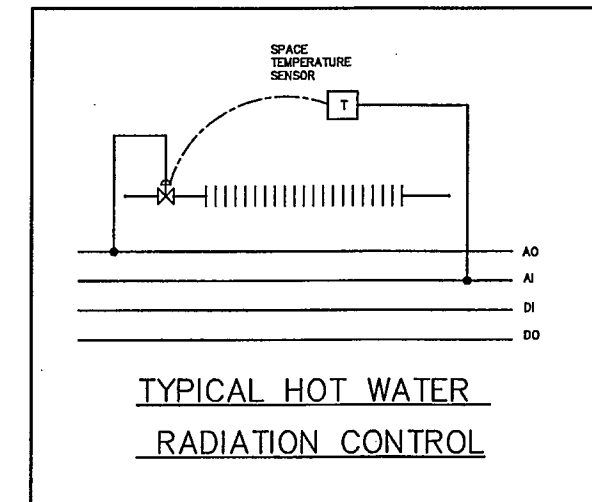
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1141-422-2002 P. 416-482-2040
2540 Yonge Street, Suite 300
Toronto, ON M4P 2G9 Canada
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DRAWN BY: M.C.
CHECKED BY: D.H.
DATE: MARCH 19, 2008
PROJECT TITLE:
**PEEL REGIONAL
POLICE SUPPORT
SERVICES FACILITY**
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DRAWING TITLE:
**PARTIAL
THIRD FLOOR
PIPING**
SCALE: 1/100
PROJECT NO. **5428B**
DWG. NO. **M-11A**

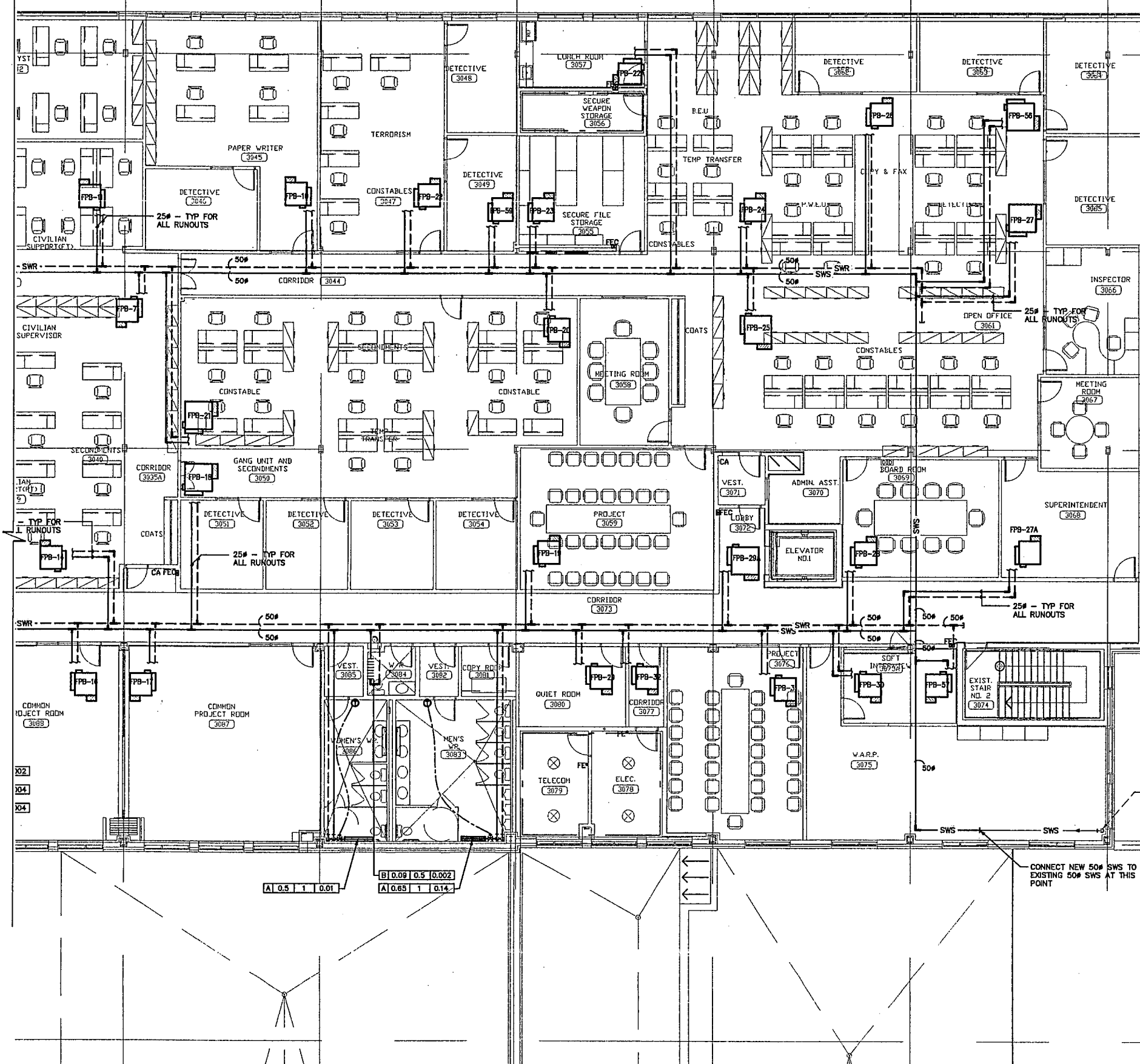
Revision: 0

FOR CONTINUATION REFER TO DRAWING M-12A



REF.	ROW	ENCLOSURE
A	1	18" HIGH ENCLOSURE
B	1	BARE FINS

TYPE → REF. TYPE
A X Y Z → WATER FLOW 1/2"
→ OUTPUT REQUIRED (KW)



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KEY TO DETAIL LOCATION	
NO.	DETAIL NUMBER
NO.	DRAWING NUMBER

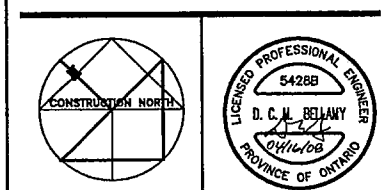
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NO.	REVISION/ISSUE	DATE
1	ISSUED FOR BUILDING PERMIT	07/10/22
2	ISSUED FOR CLIENT REVIEW	07/12/17
3	ISSUED FOR 80% SUBMISSION	08/01/07
4	REVISED FOR BUILDING PERMIT	08/03/24
5	ISSUED FOR TENDER	08/04/21

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DRAWN BY: M.C.
CHECKED BY: D.H.

DATE: MARCH 19, 2008

PROJECT TITLE:
**PEEL REGIONAL
POLICE SUPPORT
SERVICES FACILITY**

180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DRAWING TITLE:

**PARTIAL
THIRD FLOOR
HVAC**

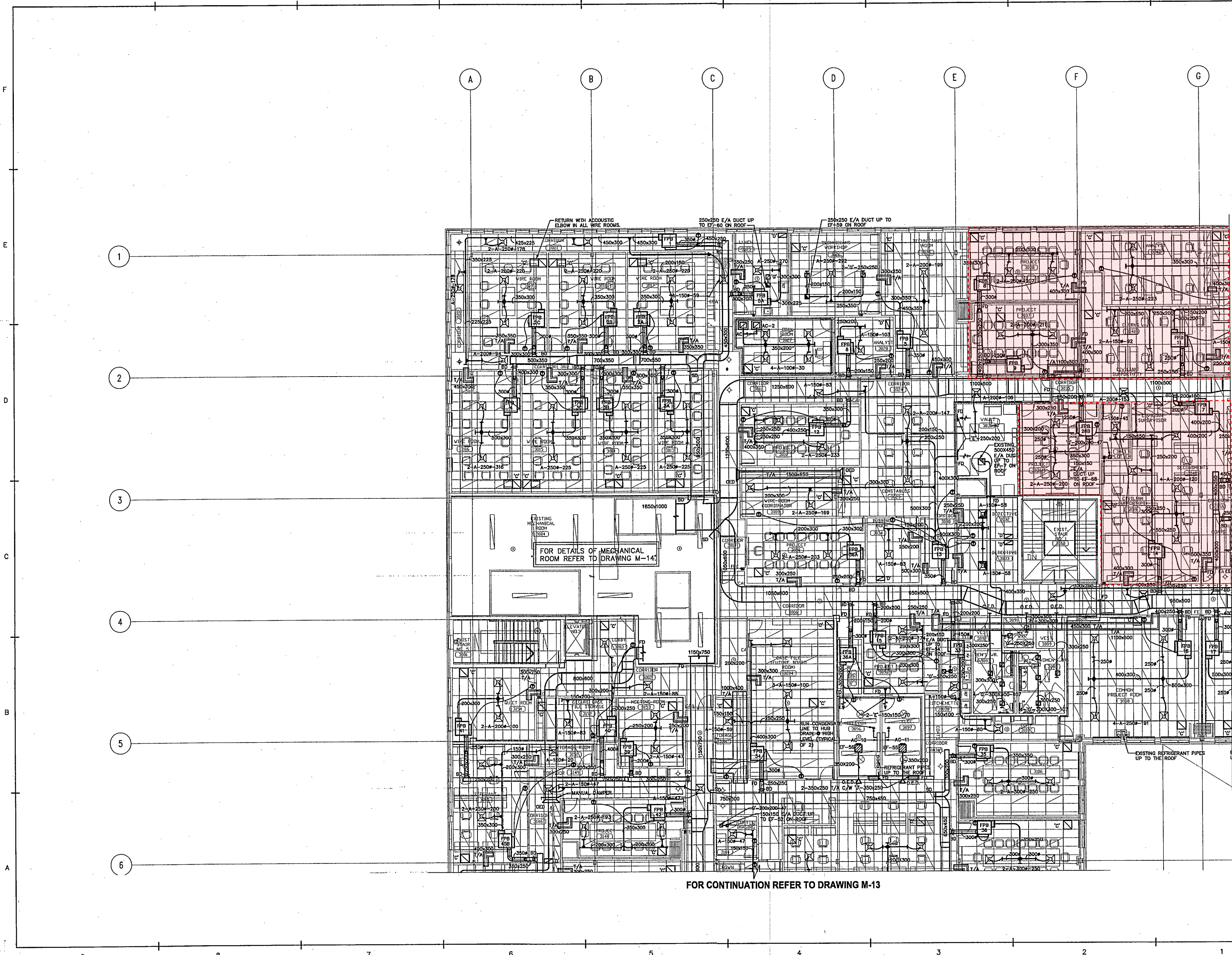
SCALE: 1/100

PROJECT NO. 5428B DWG. NO. M-12

Revision:0

FOR CONTINUATION REFER TO DRAWING M-11

FOR CONTINUATION REFER TO DRAWING M-13



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KEY TO DETAIL LOCATION
No. _____
DETAIL NUMBER
DRAWING NUMBER

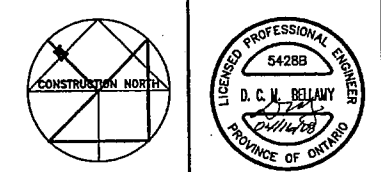
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NO.	REVISION/ISSUE	DATE
1	ISSUED FOR BUILDING PERMIT	07/10/22
2	ISSUED FOR CLIENT REVIEW	07/12/17
3	ISSUED FOR 90% SUBMISSION	08/01/07
4	REVISED FOR BUILDING PERMIT	08/03/24
5	ISSUED FOR TENDER	08/04/21

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DRAWN BY: H.C.
CHECKED BY: D.H.

DATE: MARCH 19, 2008
PROJECT TITLE:

**PEEL REGIONAL
POLICE SUPPORT
SERVICES FACILITY**
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

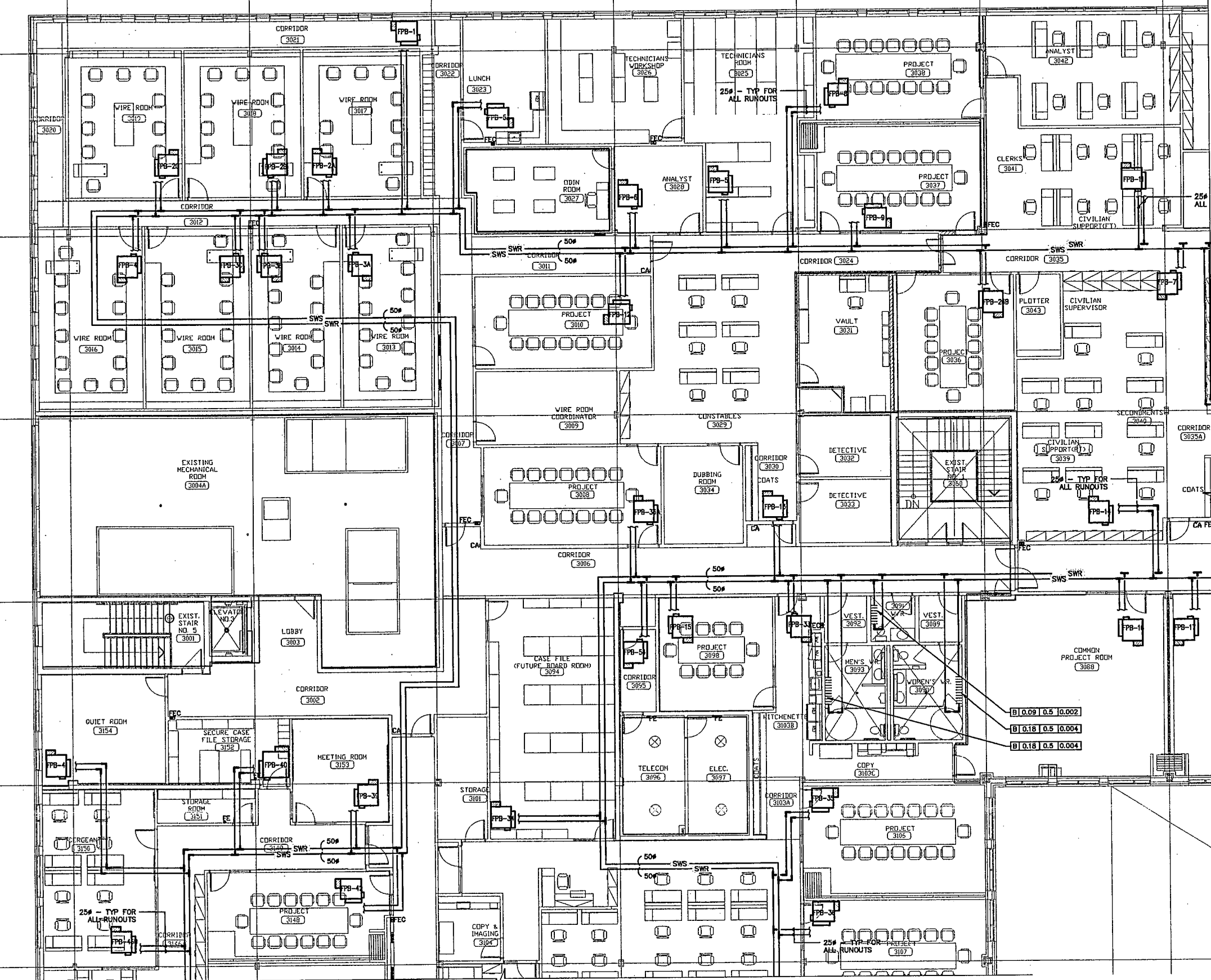
DRAWING TITLE:
**PARTIAL
THIRD FLOOR
PIPING**

SCALE: 1/100
PROJECT NO. **5428B** DWG. NO. **M-12A**

Revision 0

FOR CONTINUATION REFER TO DRAWING M-11A

FOR CONTINUATION REFER TO DRAWING M-13A



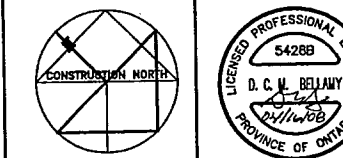
No.	DETAIL	NUMBER
No.	DRAWING	NUMBER

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DRAWINGS SHOULD NOT BE SCALE

NO.	REVISION/ISSUE	DATE
1	ISSUED FOR BUILDING PERMIT	07/10/22
2	ISSUED FOR CLIENT REVIEW	07/12/17
3	ISSUED FOR 90% SUBMISSION	08/01/07
4	REVISED FOR BUILDING PERMIT	08/03/24
5	ISSUED FOR TENDER	08/04/21



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CS&P Architect

DRAWN BY: M.C

CHECKED BY: D.H.

DATE: MARCH 19, 2008

PROJECT TITLE:



PEEL REGIONAL
POLICE SUPPORT
SERVICES FACILIT

180 DERRY ROAD EAS
MISSISSAUGA, ONTARIO

DRAWING TITLE:

A	PARTIAL THIRD FLOOR HVAC
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SCALE: 1:100

PROJECT NO.	
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5428E

DWG. NO.	
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5428E

M-1.3

Revisions:

KEY TO DETAIL LOCATION

No.	DETAIL NUMBER
No.	DRAWING NUMBER

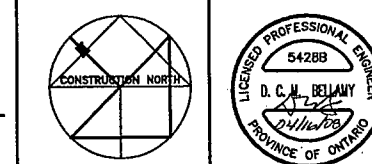
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NO.	REVISION/ISSUE	DATE
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2	ISSUED FOR CLIENT REVIEW	07/12/17
3	ISSUED FOR 90% SUBMISSION	08/01/07
4	REVISED FOR BUILDING PERMIT	08/03/24
5	ISSUED FOR TENDER	08/04/21

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DRAWN BY: M.C.

CHECKED BY: D.H.

DATE: MARCH 19, 2008

PROJECT TITLE:



PEEL REGIONAL
POLICE SUPPORT
SERVICES FACILITY
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DRAWING TITLE:

A PARTIAL
THIRD FLOOR
PIPING

SCALE: 1:100

PROJECT NO.

5428B

DWG. NO.	
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5428B

DWG. NO.	
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! M

M

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KEY TO DETAIL LOCATION	
No.	DETAIL NUMBER

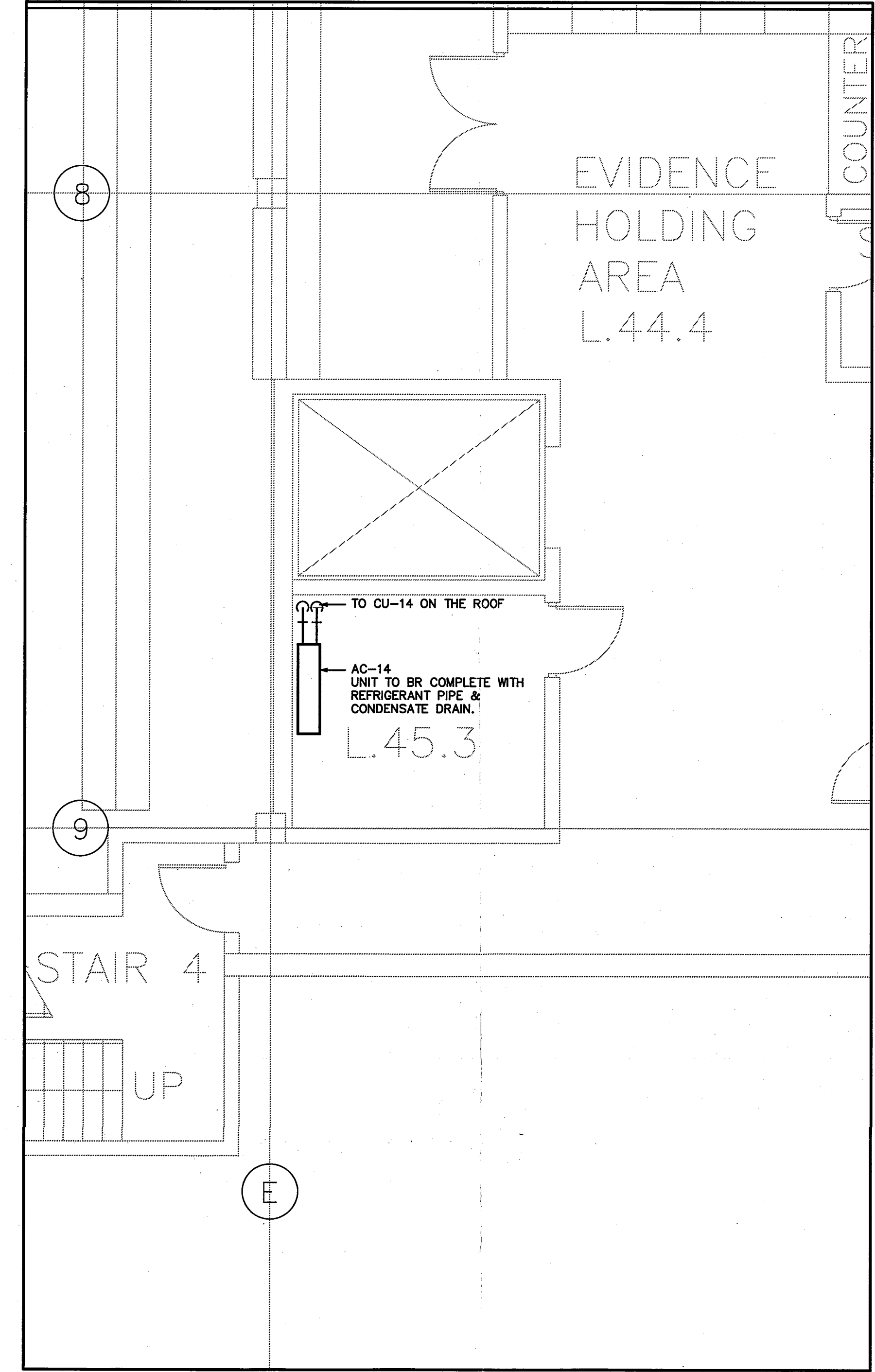
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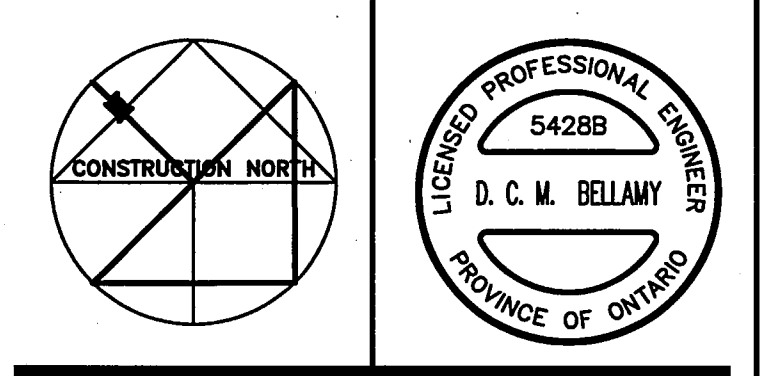
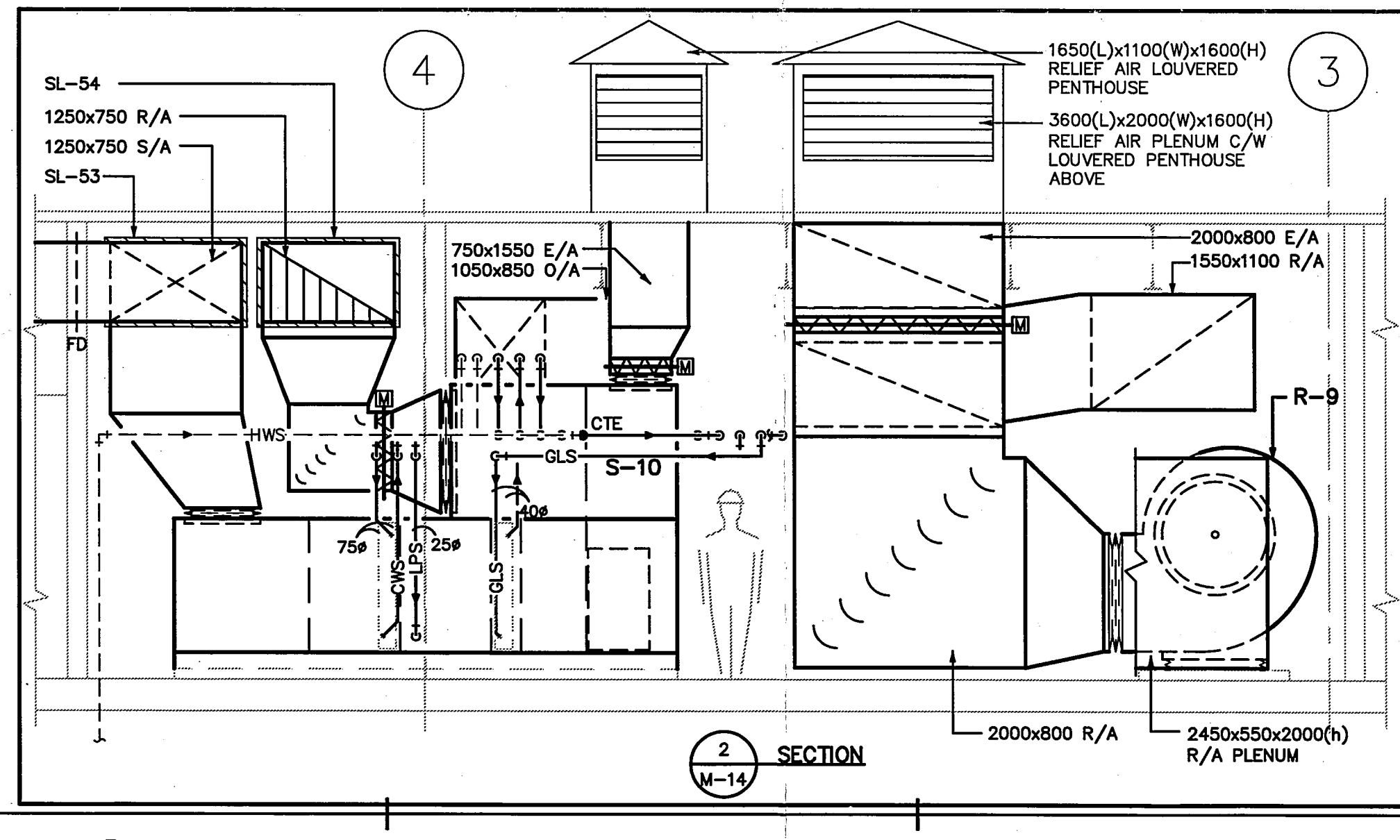
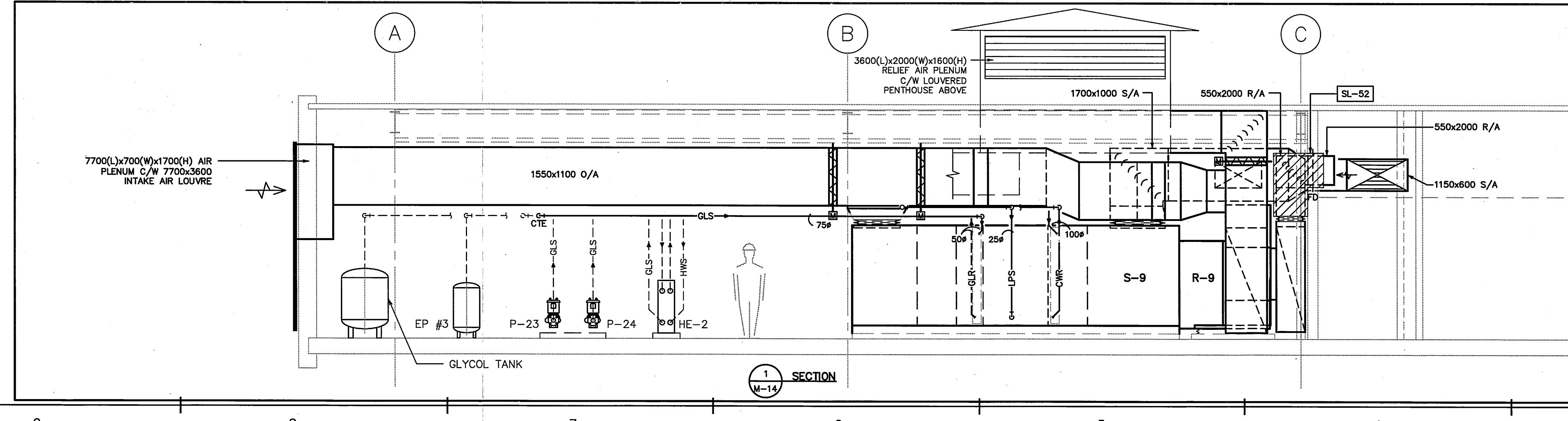
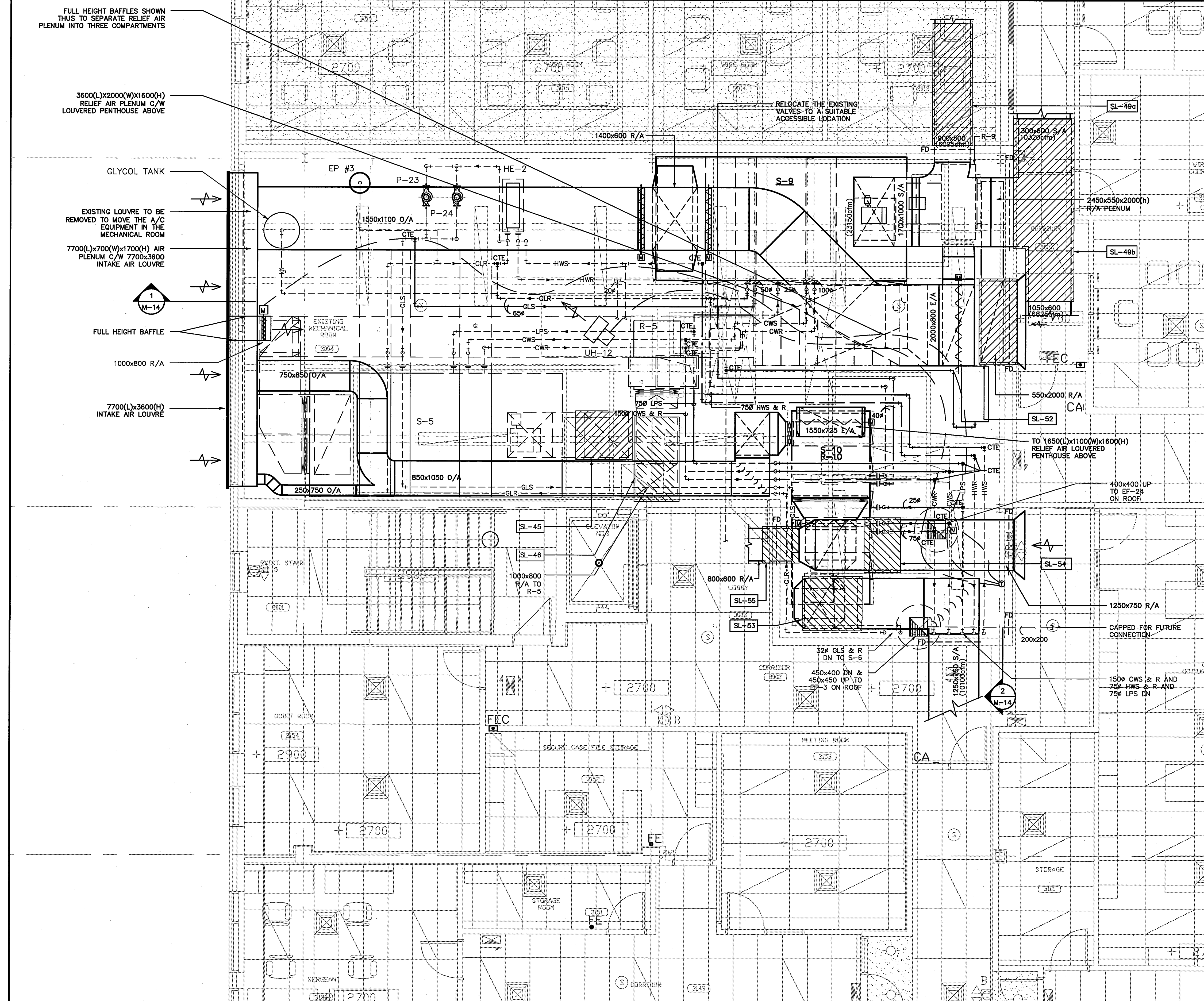
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NO.	REVISION/ISSUE	DATE
1	ISSUED FOR CLIENT REVIEW	07/12/17
2	ISSUED FOR 90% SUBMISSION	08/01/07
3	REVISED FOR BUILDING PERMIT	08/03/24
4	ISSUED FOR TENDER	08/04/21
5	ISSUED FOR CR #2	08/11/21

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BASEMENT PART PLAN



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2900 Yonge Street, Suite 210
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CHECKED BY: D.H.
DATE: NOV. 21, 2008
PROJECT TITLE:
**PEEL REGIONAL
POLICE SUPPORT
SERVICES FACILITY**
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DRAWING TITLE:
**BASEMENT &
MECHANICAL ROOM
PLAN AND SECTIONS.**
HVAC
SCALE: 1/50
PROJECT NO.
5428B
DWG. NO.
M-14

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KEY TO DETAIL LOCATION

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DRAWING NUMBER

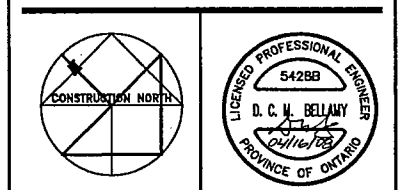
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NO.	REVISION/ISSUE	DATE
1	ISSUED FOR CLIENT REVIEW	07/12/17
2	ISSUED FOR 80% SUBMISSION	08/01/07
3	REVISED FOR BUILDING PERMIT	08/03/24
4	ISSUED FOR TENDER	08/04/21

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Toronto, ON M4P 2G8 Canada
www.csandp.com

CS&P Architects

DRAWN BY: M.C.

CHECKED BY: D.H.

DATE: MARCH 19, 2008

PROJECT TITLE:

**PEEL REGIONAL
POLICE SUPPORT
SERVICES FACILITY**

180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DRAWING TITLE:

ROOF PLAN

SCALE: 1/150

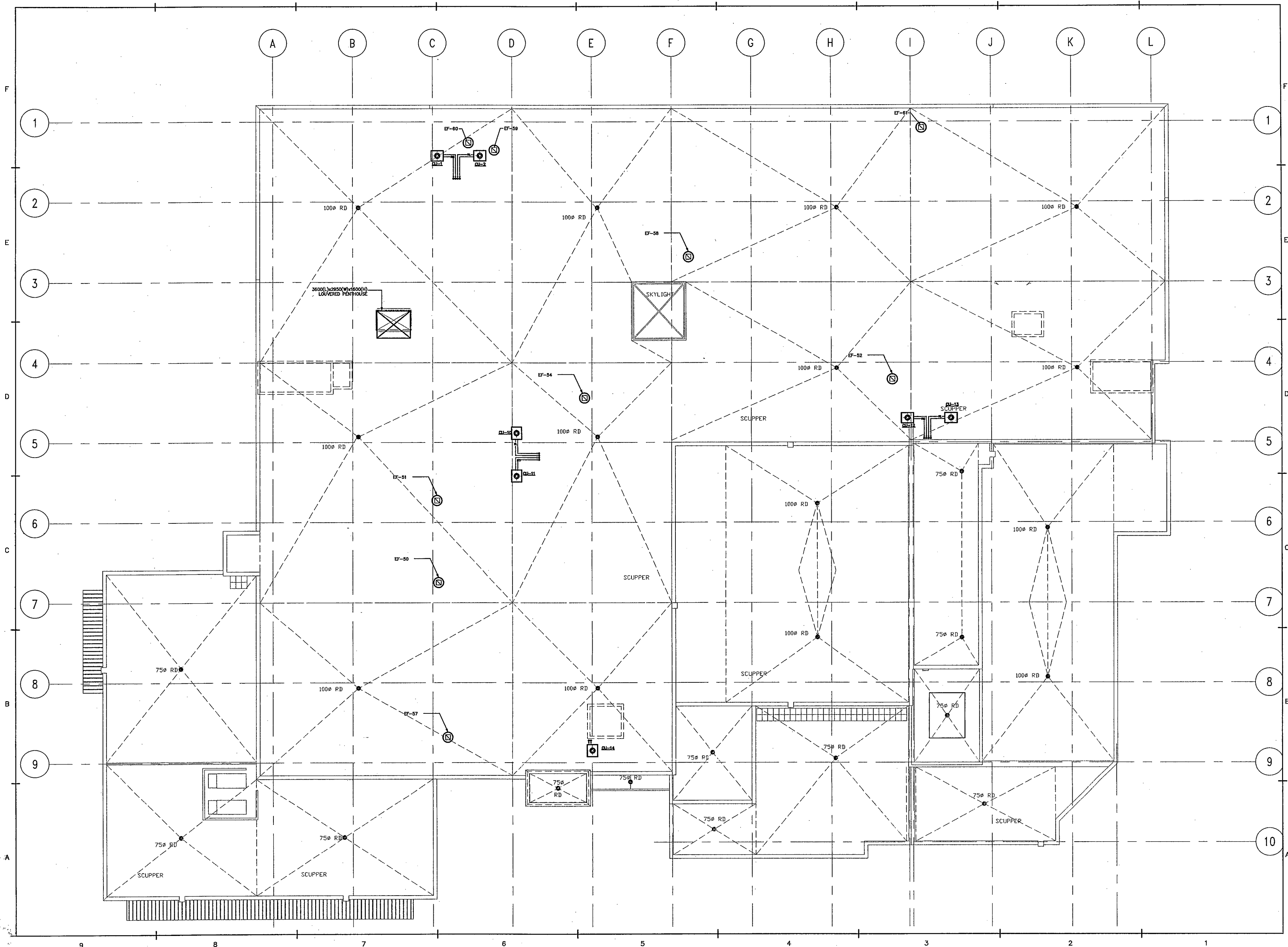
PROJECT NO.

54288

DWG. NO.

M-15

Revision/0



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KEY TO DETAIL LOCATION

DETAIL NUMBER
DRAWING NUMBER

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DRAWINGS SHOULD NOT BE SCALED.

NO.	REVISION/ISSUE	DATE
1	REVISED FOR BUILDING PERMIT	08/03/24
2	ISSUED FOR TENDER	08/04/21

MCW
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Toronto, ON M4P 2B5 Canada
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DRAWN BY: M.C.

CHECKED BY: D.H.

DATE: MARCH 19, 2008

PROJECT TITLE:

**PEEL REGIONAL
POLICE SUPPORT
SERVICES FACILITY**
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DRAWING TITLE:

**THIRD FLOOR
DEMOLITION**

SCALE: 1/100

PROJECT NO.

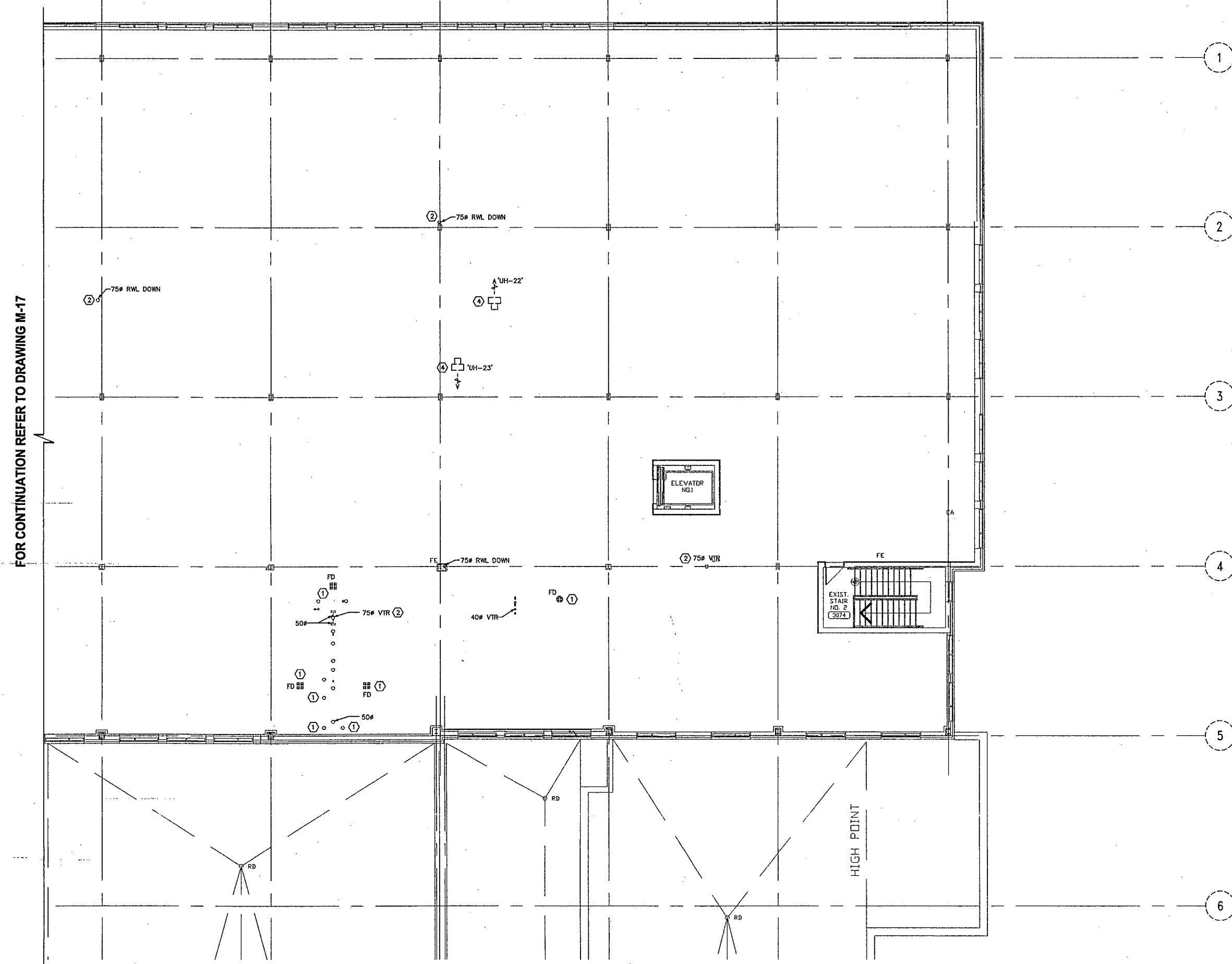
5428B

DWG. NO.

M-16

Revision 0

FOR CONTINUATION REFER TO DRAWING M-17



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KEY TO DETAIL LOCATION	
No.	DETAIL NUMBER DRAWING NUMBER

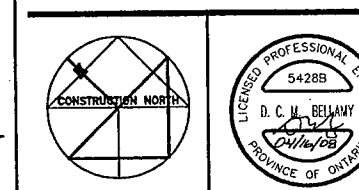
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DRAWINGS SHOULD NOT BE SCALED.

NO.	REVISION/ISSUE	DATE
1	REVISED FOR BUILDING PERMIT	08/03/24
2	ISSUED FOR TENDER	08/04/21

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www.csaparch.com

CS&P Architects

DRAWN BY: M.C.

CHECKED BY: D.H.

DATE: MARCH 19, 2008

PROJECT TITLE:

**PEEL REGIONAL
POLICE SUPPORT
SERVICES FACILITY**

180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DRAWING TITLE:

**PARTIAL
THIRD FLOOR
DEMOLITION**

SCALE: 1/100

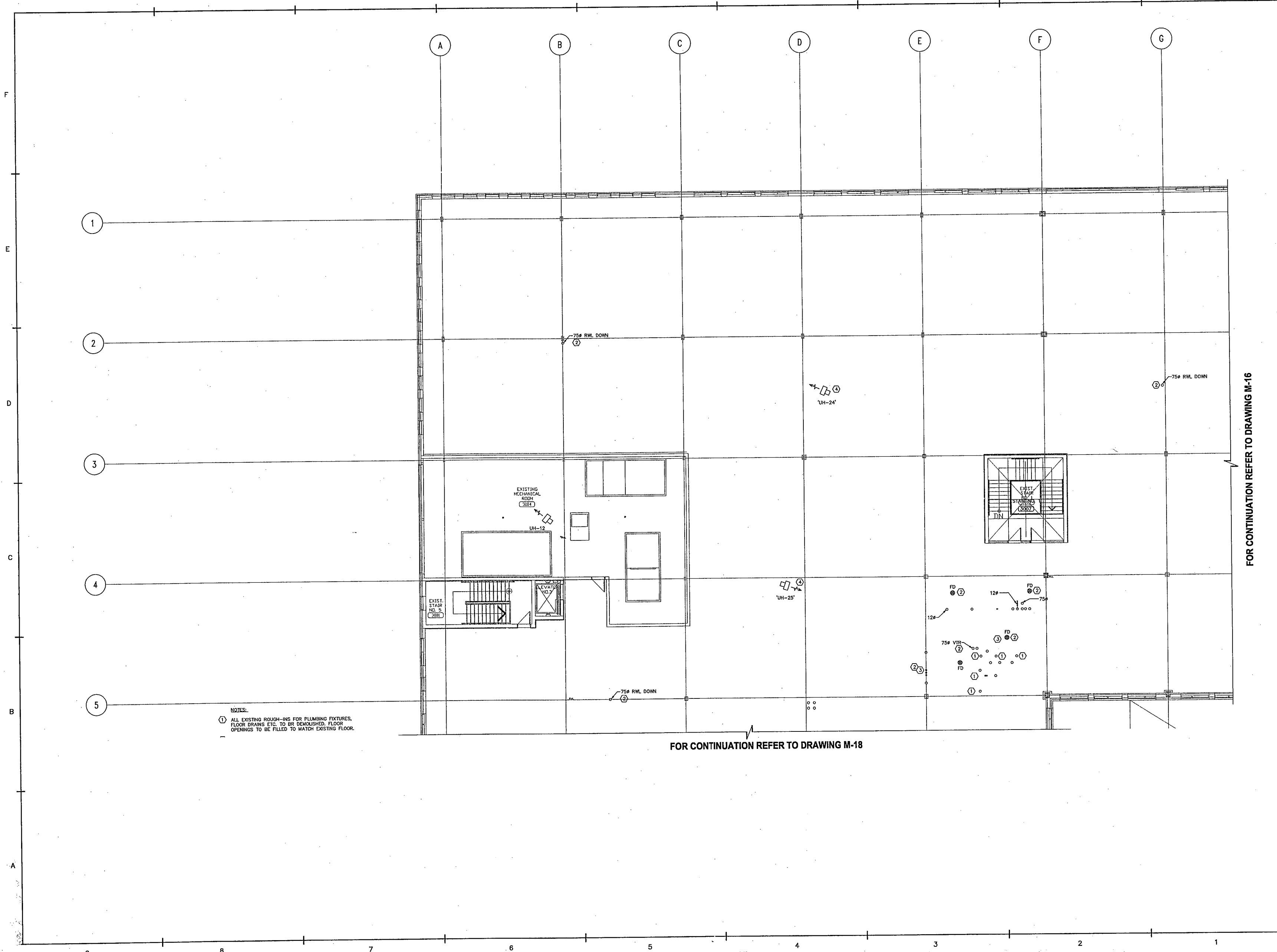
PROJECT NO.

5428B

DWG. NO.

M-17

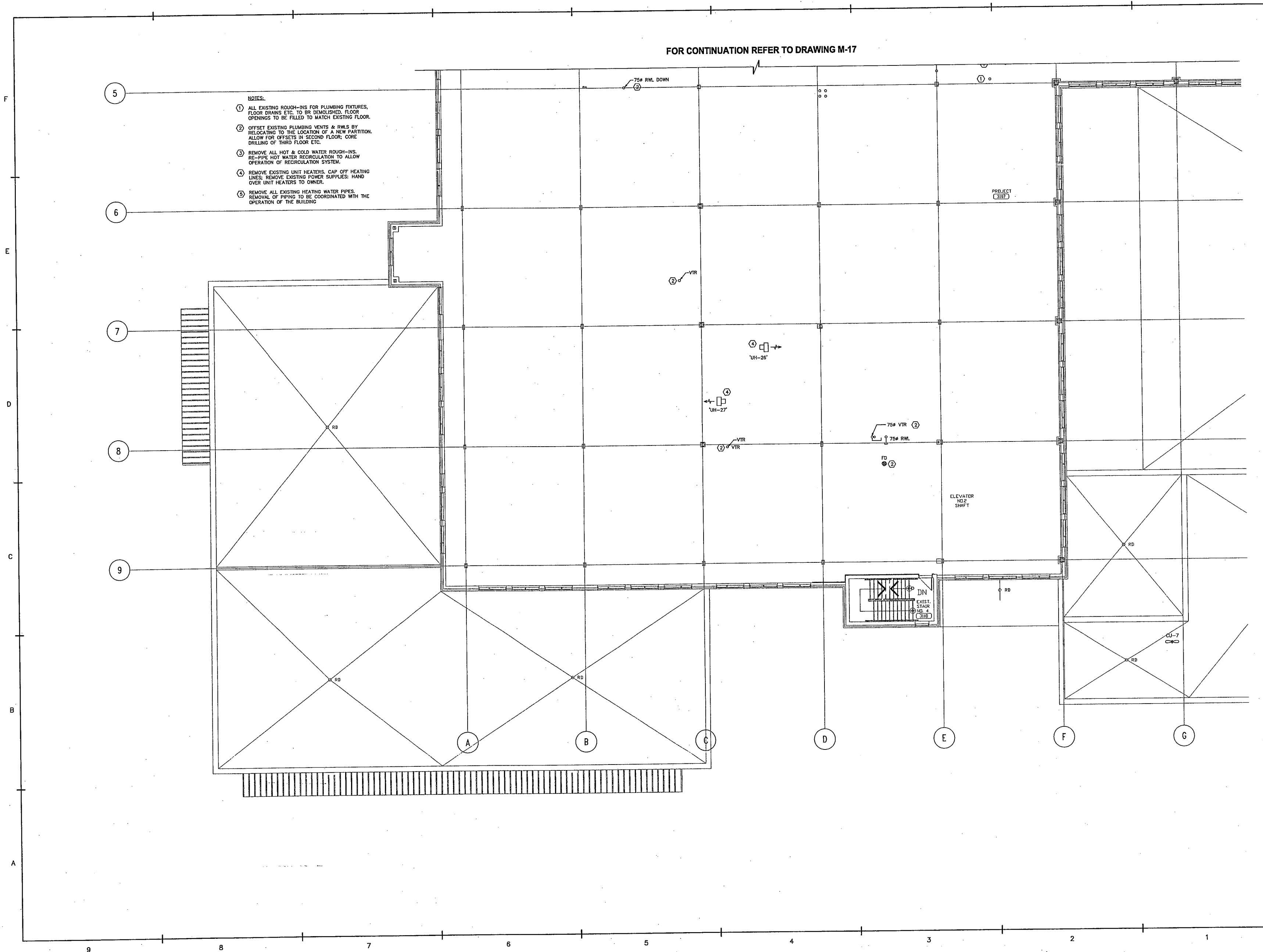
Revision 0



NOTES:
① ALL EXISTING ROUGH-INS FOR PLUMBING FIXTURES,
FLOOR DRAINS ETC. TO BE DEMOLISHED. FLOOR
OPENINGS TO BE FILLED TO MATCH EXISTING FLOOR.

FOR CONTINUATION REFER TO DRAWING M-18

FOR CONTINUATION REFER TO DRAWING M-16



IF THIS SHEET IS NOT 27 1/2" x 42"
(700x1067mm) IT IS A REDUCED
PRINT - READ DWG. ACCORDINGLY

KEY TO DETAIL LOCATION
No. No.
DETAIL NUMBER
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DRAWINGS SHOULD NOT BE SCALED.

NO.	REVISION/ISSUE	DATE
1	ISSUED FOR BUILDING PERMIT	07/10/22
2	ISSUED FOR CLIENT REVIEW	07/12/17
3	ISSUED FOR 90% SUBMISSION	08/01/07
4	REVISED FOR BUILDING PERMIT	08/03/24
5	ISSUED FOR TENDER	08/04/21

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SUPPLY FAN SCHEDULE

REF.	DESCRIPTION	LOCATION	AIR FLOW (L/S)	PRESSURE (KPa)		OUTLET VELOCITY (M/S) (FPM)	RPM	P.W.L. db RE 10 ¹² WATTS OCTAVE BAND								MANUFACTURER	MODEL	ENERGY REQUIRED (KW)	MOTOR SIZE (KW)	POWER SUPPLY				STARTER				CONTROLS				OTHER REQUIREMENTS				REMARKS		
				TOTAL	E.S.P.			1	2	3	4	5	6	7	8					FED FROM	EM.	NORM.	SUPPLIED BY DIV.15	INSTALLED BY DIV.16	DIV.15	DIV.16	TYPE	MAN.	AUTO	INTERLOCK BY DIV.15	DIV.16	MAN.	AUTO	INTERLOCK BY DIV.15	DIV.16		F.A. SHUT DOWN	OTHERS
S-9	SUPPLY	PART OF UNIT S-9	10925	-	0.50	-	-	94	88	100	94	91	84	81	76	TRANE	MCCB-50	16.82	16.85	575	3			Y			Y		Y		Y		Y		Y		-	
S-10	SUPPLY	PART OF UNIT S-10	4983	-	0.50	-	-	94	87	97	91	89	81	75	70	TRANE	MCCB-21	9.10	11.19	575	3			Y			Y		Y		Y		Y		Y		-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

NOTES:

1. REFER TO SECTION 15050 REGARDING WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION 15800 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.
4. PROVIDE VARIABLE SPEED DRIVE FOR SYSTEMS S-9 & S-10.
5. ALL LINE VOLTAGE WIRING BY DIV 16.
6. ANY HANDLING UNITS TO BE SHIPPED IN MODULES AND ASSEMBLED AT SITE. UNITS TO BE MOVED INTO THE MECHANICAL ROOM BY REMOVING THE FRESH AIR LOUVER. LOUVER TO BE REINSTALLED AFTER COMPLETION OF WORK.

RETURN AIR FAN SCHEDULE

REF.	DESCRIPTION	LOCATION	AIR FLOW (L/S)	PRESSURE (KPa)		OUTLET VELOCITY (M/S) (FPM)	RPM	P.W.L. db RE 10 ¹² WATTS OCTAVE BAND								MANUFACTURER	MODEL	ENERGY REQUIRED (KW)	MOTOR SIZE (KW)	POWER SUPPLY				STARTER				CONTROLS		INTERLOCK BY		OTHER REQUIREMENTS		REMARKS				
				TOTAL	E.S.P.			1	2	3	4	5	6	7	8					VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY DIV.15	BY DIV.16	INSTALLED BY DIV.15	TYPE DIV.16	MAN.	AUTO	INTERLOCK BY DIV.15	DIV.16	M.P. DISC. AT MOTOR		F.A. SHUT DOWN	Y	F.A. SHUT DOWN	OTHERS
R-9	RETURN	MECHANICAL ROOM, 3RD FLOOR	9981	-	0.38	-	629	92	91	85	82	79	76	77	66	LOREN COOK	402CPS	6.16	7.46	575	3					Y		Y		VFD		Y		Y	Y			
R-10	RETURN	PART OF UNIT S-10	4450	-	0.31	-	-	71	70	68	64	61	58	44	33	TRANE	MCCB-21	-	3.73	575	3					Y		Y		VFD		Y		Y	Y			
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

NOTES:

1. REFER TO SECTION 15050 REGARDING WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION 15800 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.
4. PROVIDE VARIABLE SPEED DRIVE FOR SYSTEMS R-9 & R-10.
5. ALL LINE VOLTAGE WIRING BY DIV 16.

COOLING COIL SCHEDULE

REF.	DESCRIPTION	AIR FLOW (L/S)	CAPACITY (KW)		SIZE (mm x mm)	FACE VELOCITY (M/S)	ENTERING AIR (°C) DB/WB	LEAVING AIR (°C) DB/WB	WATER (L/S)	WATER TEMPERATURE (°C)		AIR STATIC PRESSURE (Pa)	WATER PRESSURE DROP (KPa)	MANUFACTURER	MODEL	REMARKS
			TOTAL	SENSIBLE						ENTER	LEAVE					
CC-9	COOLING	10925	339.0	221.7	-	-	25.4/18.8	8.9/8.8	10.39	3.3	11.1	-	17.82	TRANE	-	
CC-10	COOLING	4983	157.1	101.8	-	-	25.5/18.7	8.9/8.8	4.81	3.3	11.1	-	32.4	TRANE	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

NOTES:

1. REFER TO SECTION 15700 FOR FURTHER DETAIL.

HEATING COIL SCHEDULE

REF.	DESCRIPTION	AIR FLOW (L/S)	CAPACITY (KW)	SIZE (mm x mm)	FACE VELOCITY (M/S)	ENTERING AIR (°C) DB	LEAVING AIR (°C) DB	WATER (L/S)	WATER TEMPERATURE (°C)		AIR STATIC PRESSURE (Pa)	WATER PRESSURE DROP (KPa)	MANUFACTURER	MODEL	REMARKS
									ENTER	LEAVE					
HC-9	HEATING	10925	138.8	-	-	11.80	22.2	1.74	82	80	-	2.43	TRANE	-	50K ETH. GLYCOL
HC-10	HEATING	4983	66.51	-	-	11.22	22.2	0.85	82	80	-	3.21	TRANE	-	50K ETH. GLYCOL
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

NOTES:

1. REFER TO SECTION 15700 FOR FURTHER DETAIL.

HUMIDIFIER SCHEDULE

REF.	DESCRIPTION	CAPACITY (KG/HR)	AIR FLOW (L/S)	WxH (MM)	NO. OF TUBES	ABSORPTION DISTANCE (MM)	MODEL	STEAM INPUT PRESSURE		REMARKS
								psi	KPa	
S-9	STEAM DISTRIBUTOR	16.85	10925	TO BE DETERMINE BY THE MANUFACTURER	1		ARMSTRONG BIVEM-40.2/32" ORIFICE	12	82.74	SERVING SYSTEM S-9
S-10	STEAM DISTRIBUTOR	29.62	4983	TO BE DETERMINE BY THE MANUFACTURER	2		ARMSTRONG BIVEM-40.5/16" ORIFICE	12	82.74	SERVING SYSTEM S-10
-	-	-	-	-	-	-	-	-	-	-

NOTES:

1. REFER TO SECTION 15700 FOR FURTHER DETAILS.
2. USE BMS SIGNAL TO LIMIT CAPACITY OF HUMIDIFIER (7 VOLT MAX. - 0-10V SIGNAL).

EXHAUST FAN SCHEDULE

REF.	SERVICE AREA	LOCATION	AIR FLOW (L/S)	PRESSURE (KPa)		OUTLET VELOCITY (M/S)	RPM	P.W.L. db RE 10 ¹² WATTS OCTAVE BAND								MANUFACTURER	MODEL	ENERGY REQUIRED (KW)	MOTOR SIZE (KW)	POWER SUPPLY					STARTER				CONTROLS			OTHER REQUIREMENTS				REMARKS	
				TOTAL	STATIC			1	2	3	4	5	6	7	8					FED FROM	EM.	NORM.	SUPPLIED BY		INSTALLED BY		TYPE	MAN.	AUTO	INTERLOCK BY		M.P. AT MOTOR	DSC. AT MOTOR	F.A. SHUT DOWN			
																							DIV.15	DIV.16	DIV.15	DIV.16				DIV.15	DIV.16				DIV.15		DIV.16
EF-48	ELECTRICAL ROOM 3078	IN LINE	189	-	0.08		942	-	-	-	-	-	-	-	LOREN COOK	GN820	-	0.21	120	1			Y				Y	Y	Y	Y	Y	Y	Y	Y			
EF-49	TELECOM ROOM 3079	IN LINE	189	-	0.08		942	-	-	-	-	-	-	-	LOREN COOK	GN820	-	0.21	120	1			Y				Y	Y	Y	Y	Y	Y	Y	Y			
EF-50	WASHROOM 3110	ROOF	59	-	0.08		1050	-	-	-	-	-	-	-	LOREN COOK	90C10DM	-	0.03	120	1				Y		Y	Y	Y	Y		Y	Y	Y	Y			
EF-51	COPY&IMAGING 3104	ROOF	47	-	0.06		938	-	-	-	-	-	-	-	LOREN COOK	90C10DM	-	0.03	120	1			Y		Y	Y	Y	Y	Y	Y		Y	Y	Y	Y		
EF-52	COPY&IMAGING 3081	ROOF	47	-	0.08		938	-	-	-	-	-	-	-	LOREN COOK	90C10DM	-	0.03	120	1			-Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
EF-53	KITCHENETTE 3142	ROOF	122	-	0.05		911	-	-	-	-	-	-	-	LOREN COOK	80C2B	-	0.13	120	1				Y		Y	Y	Y	Y		Y	Y	Y	Y	Y		
EF-54	KITCHENETTE 3103G	ROOF	94	-	0.05		1492	-	-	-	-	-	-	-	LOREN COOK	70C15DH	-	0.04	120	1				Y		Y	Y	Y	Y		Y	Y	Y	Y	Y		
EF-55	ELECTRICAL ROOM 3097	IN LINE	189	-	0.08		942	-	-	-	-	-	-	-	LOREN COOK	GN-820	-	0.21	120	1				Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
EF-56	TELECOM ROOM 3096	IN LINE	189	-	0.08		942	-	-	-	-	-	-	-	LOREN COOK	GN-820	-	0.21	120	1				Y		Y	Y	Y	Y		Y	Y	Y	Y	Y		
EF-57	EXHIBITION/REP ROOM 3134	ROOF	235	-	0.15		1532	-	-	-	-	-	-	-	LOREN COOK	100C2B	-	0.13	120	1				Y		Y	Y	Y	Y		Y	Y	Y	Y	Y		LOCAL SWITCH CONTROL
EF-58	PLOTTER 3043	ROOF	47	-	0.08		93	-	-	-	-	-	-	-	LOREN COOK	90C10DM	-	0.03	120	1				Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
EF-59	TECHNICIAN WORK SHOP 3026	ROOF	189	-	0.13		1444	-	-	-	-	-	-	-	LOREN COOK	80C2B	-	0.13	120	1				Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		LOCAL SWITCH CONTROL
EF-60	LUNCH ROOM 3023	ROOF	230	-	0.13		1437	-	-	-	-	-	-	-	LOREN COOK	100C2B	-	0.13	120	1				Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		LOCAL SWITCH CONTROL
EF-61	LUNCH ROOM 3057	ROOF	230	-	0.13		1437	-	-	-	-	-	-	-	LOREN COOK	100C2B	-	0.13	120	1				Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		LOCAL SWITCH CONTROL

NOTES:

1. REFER TO SECTION 15050 REGARDING WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION 15800 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.



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DRAWN BY: M.C.

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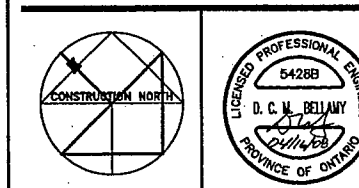
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5	ISSUED FOR TENDER	08/04/21

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DRAWN BY: M.C.

CHECKED BY: D.H.

DATE: MARCH 19, 2009

PROJECT TITLE:

**PEEL REGIONAL
POLICE SUPPORT
SERVICES FACILITY**

180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DRAWING TITLE:

**MECHANICAL EQUIPMENT
SCHEDULES**

SCALE: NTS

PROJECT NO.

5428B

DWG. NO.

M/E-2

Revision 0

FAN POWERED BOXES SCHEDULE

REF.	UNIT SIZE	NUMBER OF ROWS	PRIMARY AIR FLOW (L/S)		FAN AIR FLOW (L/S)	ENT. AIR TEMP. °C	LVG. AIR TEMP. °C	ENT. WATER TEMP. °C	MAX. N.C. LEVEL		HOT WATER FLOW (L/S)	MANUFACTURER	MODEL	MOTOR SIZE (KW)	120	150	POWER SUPPLY			STARTER			CONTROLS			OTHER REQUIREMENTS		REMARKS
			MIN.	MAX.					DIS.	RAD.							FED FROM	EM.	NORM.	SUPPLIED BY	INSTALLED BY	TYPE	MAN.	AUTO	INTERLOCK BY	INTERLOCK BY	INTERLOCK BY	
FPB-1	D	2	244	488	888	17.5	32.3	87.7	27	35	0.132	TITUS	DTFS	0.38	120	1											1. REFER TO SECTION 15800 FOR FURTHER DETAIL.	
FPB-2A,2B,2C	C	1	78	312	440	17.5	23.2	87.7	24	30	0.032	TITUS	DTFS	0.25	120	1											2. RADIANT AND DISCHARGE NOISE LEVEL FROM ALL FAN POWERED BOXES SHALL NOT EXCEED NC35 IN SPACES	
FPB-3A,3B,3C	C	1	80	319	450	17.5	23.1	87.7	24	30	0.033	TITUS	DTFS	0.25	120	1											IF REQUIRED ALL BOXES ARE TO BE COMPLETE WITH DISCHARGE AND RETURN AIR ATTENUATORS TO MEET NC 35 REQUIREMENTS.	
FPB-4	D	1	112	448	632	17.5	25.9	87.7	18	23	0.069	TITUS	DTFS	0.38	120	1											3. MIN. AIR QUANTITY IS 20% OF THE MAX. QUANTITY FOR ALL FAN POWERED BOXES EXCEPT WHERE INDICATED OTHERWISE	
FPB-5	D	1	244	488	889	17.5	27.7	87.7	19	32	0.091	TITUS	DTFS	0.38	120	1											SPECIFIED ON THE DRAWINGS. REFER TO PLANS FOR ACTUAL FAN AIRFLOW REQUIREMENT FOR EACH BOX.	
FPB-5A	C	2	98	191	270	17.5	27.1	87.7	15	27	0.034	TITUS	DTFS	0.25	120	1											4. REFER TO PLANS FOR BOXES WITH REHEAT COIL. AIR PRESSURE DROP FOR WATER COILS NOT TO EXCEED 0.03 KPA.	
FPB-6	A	2	0	73	103	17.5	23.9	87.7	-	30	0.009	TITUS	DTFS	0.25	120	1											5. ALL FAN POWERED BOXES TO BE WITH ECM MOTORS	
FPB-7	D	1	40	80	505	21.2	24.8	87.7	-	35	0.022	TITUS	DTFS	0.25	120	1											6. ΔT FOR WATER = 40°C	
FPB-8	C	1	147	293	414	17.5	27.8	87.7	-	33	0.055	TITUS	DTFS	0.25	120	1											7. ALL LINE VOLTAGE WIRING BY DIV 16.	
FPB-9	B	2	71	142	200	17.5	24.4	87.7	11	24	0.018	TITUS	DTFS	0.25	120	1											8. LEAVING AIR TEMPERATURE FROM FAN POWERED BOX DURING SUMMER TO BE 55°F.	
FPB-10	E	1	294	588	830	17.5	28.4	87.7	31	32	0.118	TITUS	DTFS	0.56	120	1											9. FAN POWERED BOXES AND COILS TO BE SELECTED BY THE MANUFACTURER BASED ON THE DUTIES	
FPB-11	B	2	98	198	277	17.5	24.2	87.7	15	27	0.024	TITUS	DTFS	0.25	120	1											10. BOXES TO BE SELECTED 0.3" ESP.	
FPB-12	C	1	165	330	466	17.5	23.1	87.7	24	30	0.034	TITUS	DTFS	0.25	120	1												
FPB-13	E	1	227	453	635	18.6	24.5	87.7	31	32	0.064	TITUS	DTFS	0.56	120	1												
FPB-14	D	1	142	285	516	18.5	24.8	87.7	14	19	0.040	TITUS	DTFS	0.38	120	1												
FPB-15	B	2	55	109	212	18.8	24.5	87.7	11	27	0.016	TITUS	DTFS	0.25	120	1												
FPB-16	D	1	280	368	520	17.5	27.1	87.7	14	19	0.065	TITUS	DTFS-F	0.38	120	1												
FPB-17	D	1	280	368	520	17.5	27.1	87.7	14	19	0.065	TITUS	DTFS-F	0.38	120	1												
FPB-18	B	2	78	156	284	18.6	28.2	87.7	-	30	0.036	TITUS	DTFS	0.25	120	1												
FPB-19	B	2	106	212	299	17.5	24.0	87.7	22	28	0.025	TITUS	DTFS	0.25	120	1												
FPB-20	A	2	47	94	153	18.1	24.0	87.7	-	30	0.012	TITUS	DTFS	0.25	120	1												
FPB-21	D	1	184	368	648	18.4	24.8	87.7	-	30	0.052	TITUS	DTFS	0.38	120	1												
FPB-22	C	1	175	349	493	17.5	27.7	87.7	20	31	0.065	TITUS	DTFS	0.25	120	1												
FPB-22A	B	2	83	165	233	17.5	28.8	87.7	-	25	0.034	TITUS	DTFS	0.25	120	1												
FPB-23	B	2	33	94	165	18.4	25.6	87.7	-	29	0.015	TITUS	DTFS	0.25	120	1												
FPB-24	D	1	228	455	770	18.1	26.0	87.7	18	31	0.078	TITUS	DTFS	0.38	120	1												
FPB-25	C	1	144	288	487	18.1	25.9	87.7	-	35	0.048	TITUS	DTFS	0.25	120	3												
FPB-26	D	1	178	356	503	17.5	29.4	87.7	20	31	0.078	TITUS	DTFS	0.25	120	1												
FPB-26B	B	2	86	172	243	17.5	23.9	87.7	13	28	0.020	TITUS	DTFS	0.25	120	1												
FPB-27	D	1	185	370	503	17.3	28.4	87.7	24	30	0.072	TITUS	DTFS	0.25	120	1												
FPB-27A	B	2	75	151	224	17.7	29.0	87.7	10	24	0.033	TITUS	DTFS	0.25	120	1												
FPB-28	B	2	50	101	166	18.2	24.4	87.7	-	25	0.013	TITUS	DTFS	0.25	120	1												
FPB-29	A	2	47	94	133	17.5	25.1	87.7	-	25	0.013	TITUS	DTFS	0.25	120	1												
FPB-29A	E	1	81	162	920	21.1	25.3	87.7	-	36	0.054	TITUS	DTFS	0.56	120	1												
FPB-30	C	2	190	300	470	17.9	31.8	87.7	19	30	0.084	TITUS	DTFS	0.25	120	1												
FPB-31	C	2	126	252	356	17.5	25.9	87.7	20	27	0.039	TITUS	DTFS	0.25	120	1												
FPB-32	B	2	83	165	233	17.5	29.5	87.7	-	25	0.036	TITUS	DTFS	0.25	120	1												
FPB-33	B	2	56	113	160	17.5	23.0	87.7	-	25	0.011	TITUS	DTFS	0.25	120	1												
FPB-34	C	2	84	168	359	19.1	24.7	87.7	-	30	0.026	TITUS	DTFS	0.25	120	1												
FPB-35	D	1	92	184	500	19.8	25.6	87.7	20	31	0.036	TITUS	DTFS	0.25	120	1												
FPB-36	D	1	92	184	500	19.8	25.6	87.7	20	31	0.036	TITUS	DTFS	0.25	120	1												
FPB-36A	C	2	71	142	407	19.9	23.2	87.7	19	29	0.018	TITUS	DTFS	0.25	120	1												
FPB-37	D	1	92	184	500	19.8	25.6	87.7	20	31	0.036	TITUS	DTFS	0.25	120	1												
FPB-38	B	2	109	217	306	17.5	33.6	87.7	19	29	0.064	TITUS	DTFS	0.25	120	1												
FPB-39	A	2	0	66	94	17.5	24.8	87.7	-	25	0.009	TITUS	DTFS	0.25	120	1												
FPB-40	B	2	34	68	259	20.5	27.1	87.7	14	27	0.022	TITUS	DTFS	0.25	120	1												
FPB-41	B	2	71	142	200	17.5	29.4	87.7	-	24	0.031	TITUS	DTFS	0.25	120	1												
FPB-42	C	2	75	149	387	19.7	23.2	87.7	18	28	0.018	TITUS	DTFS	0.25	120	1												
FPB-43	C	2	75	149	387	19.7	23.2	87.7	18	28	0.018	TITUS	DTFS	0.25	120	1												
FPB-44	B	2	44	87	165	18.8	24.4	87.7	-	20	0.012	TITUS	DTFS	0.25	120	1												
FPB-45	C	2	88	175	295	18.3	28.4	87.7	18	29	0.039	TITUS	DTFS	0.25	120	1												
FPB-45A	C	2	94	188	265	17.5	28.8	87.7	-	27	0.039	TITUS	DTFS	0.25	120	1												
FPB-45B	C	2	149	297	419	17.5	28.2	87.7	19	29	0.058	TITUS	DTFS	0.25	120	1												
FPB-45C	B	2	137	274	387	17.5	29.4																					

SILENCER SCHEDULE

REF.	DESCRIPTION	FAN No.	DIMENSIONS (MM) (INCH)				AIR FLOW (L/S)	PD (kPa)	ATTENUATION db OCTAVE BAND								VIBRO ACOUSTICS TYPE	REMARKS
			W	H	L	DIA.			1	2	3	4	5	6	7	8		
SL-51	MECHANICAL ROOM	S-9	1000	1700	3000	X	10925	20	10	19	18	30	41	35	24	23	REMB-UHV-FE	ELBOW SILENCER(L1=625, L2=2375)
SL-52	MECHANICAL ROOM	R-9	1050	1500	1500	X	8981	58	11	13	14	24	20	21	19	15	REMB-MHV-FF	ELBOW SILENCER
SL-53	MECHANICAL ROOM	S-10	1250	750	2100	X	4983	15	7	11	15	26	31	33	28	21	REMB-UHV-F3	ELBOW SILENCER
SL-54	MECHANICAL ROOM	R-10	1250	750	900	X	2937	4	3	8	10	14	14	11	9	9	RMB-HV-F3	STRAIGHT SILENCER
SL-55	MECHANICAL ROOM	R-10	800	800	900	X	1469	4	3	5	9	11	11	10	10	8	RMB-HV-FA	STRAIGHT SILENCER
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:

1. REFER TO SECTION 15100 FOR FURTHER DETAILS.
2. CONTRACTOR TO COORDINATE WITH OTHER SERVICES FOR INSTALLATION AT SITE.

AIR COOLED CONDENSER

REF.	CAPACITY (KW)	REFRIGERANT	AMBIENT TEMP. (°C)	SAT. DISCH. TEMP. (°C)	SAT. SUCT. TEMP. (°C)	MANUFACTURER	MODEL	UNIT CONN. LOAD (amps)	MIN. CIRC. LOAD (amps)	MAX. FUSE SIZE	POWER SUPPLY				STARTER		CONTROLS			OTHER REQUIREMENTS				REMARKS		
											1/2 VOLT	PHASE	FED FROM	EM. NORM	SUPPLIED BY	INSTALLED BY	TYPE	MAN. AUTO	INTERLOCK BY	INTERLOCK BY	DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT		OTHERS	
CJ-1	17.5	R-22	35			LIEBERT	DCL083-B	1.4	1.8	15	575	3	-	Y	-	Y	-	Y	Y	Y	-	Y	Y	Y	-	UNIT SHALL BE COMPLETE WITH LEE TEMP HEATER PADS 120V/1PH/60HZ 1.25 FLA & SCROLL COMPRESSOR. TWO POWER SUPPLY ONE 575V/3PH AND ONE 120V/1PH FOR LEE TEMP HEATER REQUIRED FOR OUTDOOR UNIT
CJ-2	17.5	R-22	35			LIEBERT	DCL083-B	1.4	1.8	15	575	3	-	Y	-	Y	-	Y	Y	Y	-	Y	Y	Y	-	
CJ-10	7.03	R-410A	35			CARRIER	38HDF024-3			18.7	30	208	1	-	Y	-	Y	-	Y	Y	Y	-	-	-	-	
CJ-11	7.03	R-410A	35			CARRIER	38HDF024-3			18.7	30	208	1	-	Y	-	Y	-	Y	Y	Y	-	-	-	-	
CJ-12	7.03	R-410A	35			CARRIER	38HDF024-3			18.7	30	208	1	-	Y	-	Y	-	Y	Y	Y	-	-	-	-	
CJ-13	7.03	R-410A	35			CARRIER	38HDF024-3			18.7	30	208	1	-	Y	-	Y	-	Y	Y	Y	-	-	-	-	
CJ-14	7.03	R-410A	35			CARRIER	38HDF024-3			18.7	30	208	1	-	Y	-	Y	-	Y	Y	Y	-	-	-	-	

NOTES:

1. REFER TO SECTION 15050 REGARDING WIRING AND ELECTRIC MOTORS.
2. REFER TO SPECIFICATION AND SECTION 15700 FOR FURTHER DETAILS.

ODIN ROOM A.C UNIT

REF.	TOTAL CAPACITY (KW)	SENSIBLE CAPACITY (KW)	AMBIENT TEMP. (°C)	REFRIGERANT	SAT. SUCT. TEMP. (°C)	MANUFACTURER	MODEL	UNIT CONN. LOAD (amps)	MIN. CIRC. LOAD (amps)	MAX. FUSE SIZE	POWER SUPPLY				STARTER				CONTROLS		OTHER REQUIREMENTS				REMARKS
											1/2 VOLT	PHASE	FED FROM	EM. NORM	SUPPLIED BY	INSTALLED BY	TYPE	MAN. AUTO	INTERLOCK BY	INTERLOCK BY	DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT	OTHERS	
AC-1	17.5	15.48	35	R-22		LIEBERT	BF/087A-BAB	25.2	31.5	30	575	3	-	Y	-	Y	-	Y	Y	-	Y	Y	-	-	UNIT TO BE COMPLETE WITH:
AC-2	17.5	15.48	35	R-22		LIEBERT	BF/087A-BAB	25.2	31.5	30	575	3	-	Y	-	Y	-	Y	Y	-	Y	Y	-	-	ADVANCED MICROPROCESSOR BASED TEMPERATURE AND HUMIDITY CONTROL, AUDIBLE & VISUAL ALARM, FACTORY BALANCED EVAPORATOR MOTOR & BLOWER PACKAGE
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ELECTRIC REHEAT, INFRA RED W/ AUTOFLUSH HUMIDIFIER, NON LOCKING DISCONNECT SWITCH
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2" 20% FILTER PACKAGE, CRANKCASE HEATER, HOT GAS BYPASS, 9" ADJUSTABLE FLOOR STAND

NOTES:

1. REFER TO SECTION 15050 REGARDING WIRING AND ELECTRIC MOTORS.
2. REFER TO SPECIFICATION AND SECTION 15700 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.

EVAPORATOR SCHEDULE (TELECOM & ELECTRICAL ROOM)

REF.	CAPACITY (KW)	REFRIGERANT	AMBIENT TEMP. (°C)	ENTERED AIR TEMP (°C)	LEAVING AIR TEMP (°C)	MANUFACTURER	MODEL	SUCTION TEMP (°C)	TOTAL (KW)	MIN. CIRCUIT (Amps)	POWER SUPPLY		REMARKS
											1/2 VOLT	PHASE	
AC-10	7.03	R-410A	35			CARRIER	40QNC01824-3			0.48	208	1	C/W CONDENSATE DRAIN CONNECTION. UNIT TO HAVE POWER SUPPLY
AC-11	7.03	R-410A	35			CARRIER	40QNC01824-3			0.48	208	1	C/W CONDENSATE DRAIN CONNECTION. UNIT TO HAVE POWER SUPPLY
AC-12	7.03	R-410A	35			CARRIER	40QNC01824-3			0.48	208	1	C/W CONDENSATE DRAIN CONNECTION. UNIT TO HAVE POWER SUPPLY
AC-13	7.03	R-410A	35			CARRIER	40QNC01824-3			0.48	208	1	C/W CONDENSATE DRAIN CONNECTION. UNIT TO HAVE POWER SUPPLY
AC-14	7.03	R-410A	35			CARRIER	40QNC01824-3			0.48	208	1	C/W CONDENSATE DRAIN CONNECTION. UNIT TO HAVE POWER SUPPLY

NOTES:

1. REFER TO SECTION 15050 REGARDING WIRING AND ELECTRIC MOTORS.
2. REFER TO SPECIFICATION AND SECTION 15700 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.

HEAT EXCHANGERS SCHEDULE

REF.	DESCRIPTION	PRIMARY FLOW					SECONDARY FLOW					MANUFACTURER	MODEL	REMARKS
		MEDIUM	ENT. °C	LVG. °C	(l/s)	PRESS. DROP (kPa)	MEDIUM	ENT. °C	LVG. °C	(l/s), (GPM)	PRESS. DROP (kPa)			
HE-2 (FINAL)	PLATE & FRAME	WATER	87.7	76.6	10.7	27	50% ETH. GLYC.	80	82.2	6	9.3	ITT INDUSTRIES	GPX - PIS	P=FINAL EXISTING HEAT EXCHANGER CAPACITY TO BE UPGRADED TO THE FINAL CAPACITY
HE-2 (PRESENT)	PLATE & FRAME	WATER	87.7	76.6	5.67	34.5	50% ETH. GLYC.	80	82.2	3.15	7	ITT INDUSTRIES	GPX - PIS	P=EXISTING
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:

1. SEE ALSO SECTION 15700.
2. HE-2 IS EXISTING. HEAT EXCHANGER IS TO BE UPGRADED TO MEET FINAL REQUIREMENTS
2. EXISTING TO FINAL PERFORMANCE

IF THIS SHEET IS NOT 27 1/2" x 42" (700x1067mm) IT IS A REDUCED PRINT READ DWG. ACCORDINGLY

KEY TO DETAIL LOCATION

No.	DETAIL NUMBER
1	DRAWING NUMBER

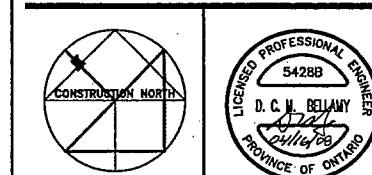
CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

ALL PRINTS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED AT THE COMPLETION OF THE WORK.

DRAWINGS SHOULD NOT BE SCALED.

NO.	REVISION/ISSUE	DATE
1	ISSUED FOR BUILDING PERMIT	07/10/22
2	ISSUED FOR CLIENT REVIEW	07/12/17
3	ISSUED FOR 60% SUBMISSION	08/01/07
4	REVISED FOR BUILDING PERMIT	08/03/24
5	ISSUED FOR TENDER	08/04/21

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CHECKED BY: D.H.

DATE: MARCH 19, 2008

PROJECT TITLE:

PEEL REGIONAL POLICE SUPPORT SERVICES FACILITY
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DRAWING TITLE:

MECHANICAL EQUIPMENT SCHEDULES

SCALE: NTS

PROJECT NO.

5428B

DWG. NO.

M/E-3

Revision/0