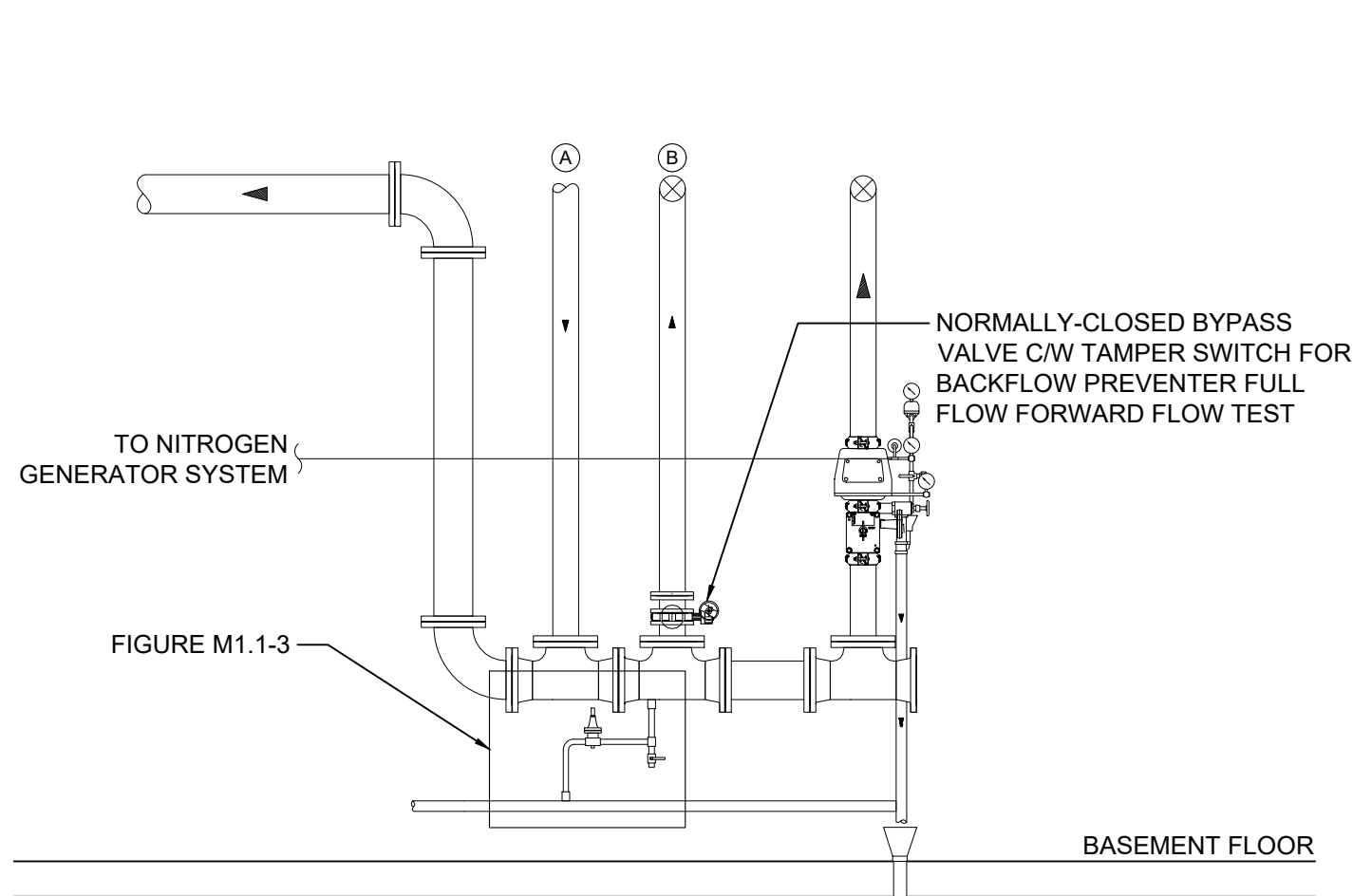


BIG HOUSE- BASEMENT FLOOR PLAN

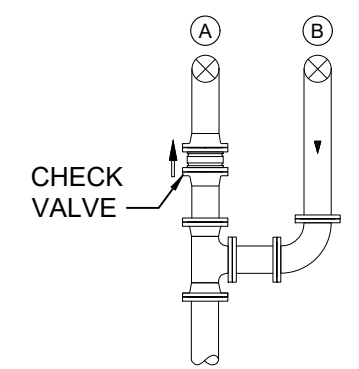
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LEGEND	
ITEM	SYMBOL
EXISTING SPRINKLER HEAD	●
EXISTING DRY TYPE PENDANT	⊗
EXISTING SPRINKLER LINE	—
EXISTING SPRINKLER SUPPORT LOCATION	AA-#

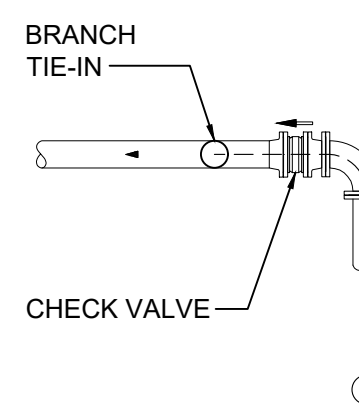


DETAIL M1.1-A: SPRINKLER ROOM PIPING SCHEMATIC

1:100



TOP VIEW



SIDE VIEW



FIGURE M1.1-1: SPRINKLER ROOM PIPING

BIG HOUSE CONSTRUCTION NOTES - BASEMENT:

- (01) PROVIDE SPARE SPRINKLER HEADS FOR THE SPARE SPRINKLER CABINET LOCATED IN THE SPRINKLER ROOM. POST LIST OF SPRINKLERS INSTALLED IN FACILITY. SPRINKLER HEADS TO BE INCLUDED ARE THE FOLLOWING. ALL SPRINKLERS TO BE OF DRY TYPE.
- 1.1 TWO TYCO SERIES DS-1 DRY-TYPE PENDANT SPRINKLERS OF INTERMEDIATE TEMPERATURE.
 - 1.2 TWO TYCO SERIES DS-C TY3535 DRY-TYPE CONCEALED PENDANT SPRINKLERS OF ORDINARY TEMPERATURE.
 - 1.3 TWO TYCO MODEL BB2 TY3190 BACK-TO-BACK SPRINKLERS OF INTERMEDIATE TEMPERATURE. SPRINKLER TYPE TO BE SPECIFIC APPLICATION ATTIC SPRINKLER TYPE.
 - 1.4 TWO TYCO SERIES TY-FRB TY 3131 UPRIGHT SPRINKLERS OF INTERMEDIATE TEMPERATURE. SPRINKLER TYPE TO BE SPECIFIC APPLICATION ATTIC SPRINKLER TYPE.
 - 1.5 TWO TYCO MODEL SD2 TY 3184 SINGLE DIRECTION SPRINKLERS OF INTERMEDIATE TEMPERATURE. SPRINKLER TYPE TO BE SPECIFIC APPLICATION ATTIC SPRINKLER TYPE.
- (02) INSTALL NEW DRY TYPE PENDENT INTO EXISTING PIPING. SPRINKLER TO BE TYCO SERIES DS-1
- CEILING IS TO BE REMOVED BY ARCHITECTURAL CONTRACTOR. INSTALL NEW 25mm SPRINKLER PIPING TO EXTEND BRANCH SO THE SPRINKLER HEAD IS 2150mm FROM SOUTH WALL. SUPPORT PIPING AS PER SPECIFICATIONS. CREATE AN OPENING IN THE TONGUE AND GROOVE WOOD FOR SPRINKLER HEAD. CEILING IS TO BE RE-INSTALLED BY ARCHITECTURAL CONTRACTOR. EXISTING OPENING FOR SPRINKLER HEAD IS TO BE PATCHED BY ARCHITECTURAL CONTRACTOR. ENSURE PIPE IS SLOPED TO DRAIN. RE-INSTALL EXISTING SPRINKLER HEAD.
- (04) INSTALL PIPING AND REINSTALL CHECK VALVE AS INDICATED BY DETAIL M1.1-A AND FIGURE M1.1-1.
- (05) INSTALL NEW NITROGEN GENERATOR AND COMPRESSED AIR TANKS. REFER TO SCHEMATIC ON SHEET M4.
- (06) INSTALL LOW AIR PRESSURE ALARM SWITCH AND WATERFLOW PRESSURE ALARM SWITCH AT LOCATION INDICATED ON FIGURE M1.1-2. COORDINATE WITH ALARM CONTRACTOR FOR ALARM CONNECTIONS.
- (07) REMOVE AND REPLACE FITTINGS AND PIPING AS INDICATED IN FIGURE M1.1-3

BIG HOUSE GENERAL CONSTRUCTION NOTES - BASEMENT:

- INSTALL TEMPERATURE SWITCH IN SPRINKLER ROOM AND INTERCONNECT TO FIRE ALARM. SET TEMPERATURE SWITCH TO 4.5°C.
- ADJUST HANGER ELEVATION AS PER HANGER ADJUSTMENT TABLES. PIPING IN THESE AREAS ARE EXPOSED.
- PERMANENT LABELS ARE TO BE PROVIDED FOR ALL SPRINKLER CONTROL VALVES, LOW POINT DRAINS, INSPECTOR'S TEST SYSTEMS AND FIRE ALARM DEVICES.

Big House Basement Hanger Adjustment Tables

Hanger Tag	Elevation Increase [mm]
CA-1	0
CA-2	16
CA-3	12
CA-4	15
CC-1	0
CC-2	0
CC-3	0
CC-4	0
CC-5	11
CC-6	8
CE-1	15
CE-2	0
CF-1	4
CF-2	0

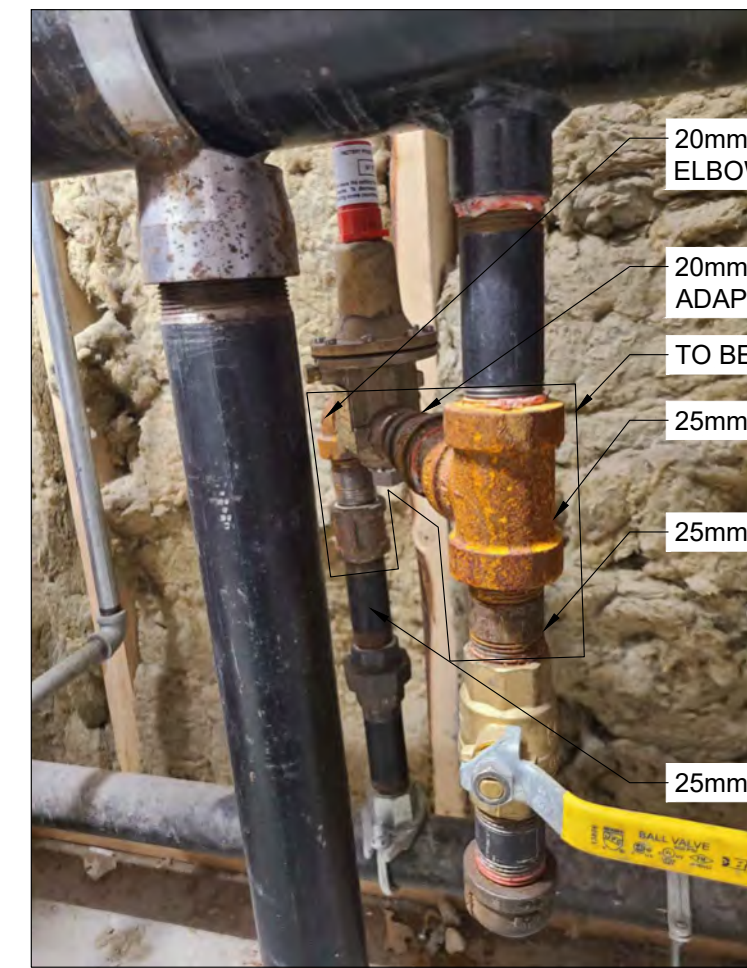
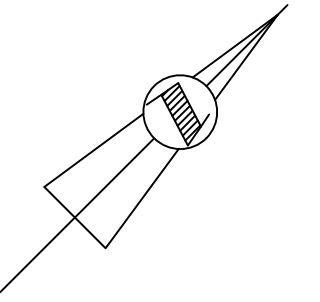


FIGURE M1.1-3



FIGURE M1.1-2: LOW AIR PRESSURE AND WATERFLOW ALARM SWITCHES



SEAL

Revision	Description	Date
5		
4		
3	TENDER READY RESUBMISSION	2022-06-29
2	TENDER READY	2022-04-11
1	ISSUED FOR 90% REVIEW RESUBMISSION	2021-12-14
0	ISSUED FOR 90% REVIEW	2021-11-08

PARKS CANADA AGENCY
220 4 AVE SE, SUITE 720
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LOWER FORT GARRY NATIONAL HISTORIC SITE ST. ANDREWS, MB.
REHABILITATION FROM WATER DAMAGE LOWER FORT GARRY

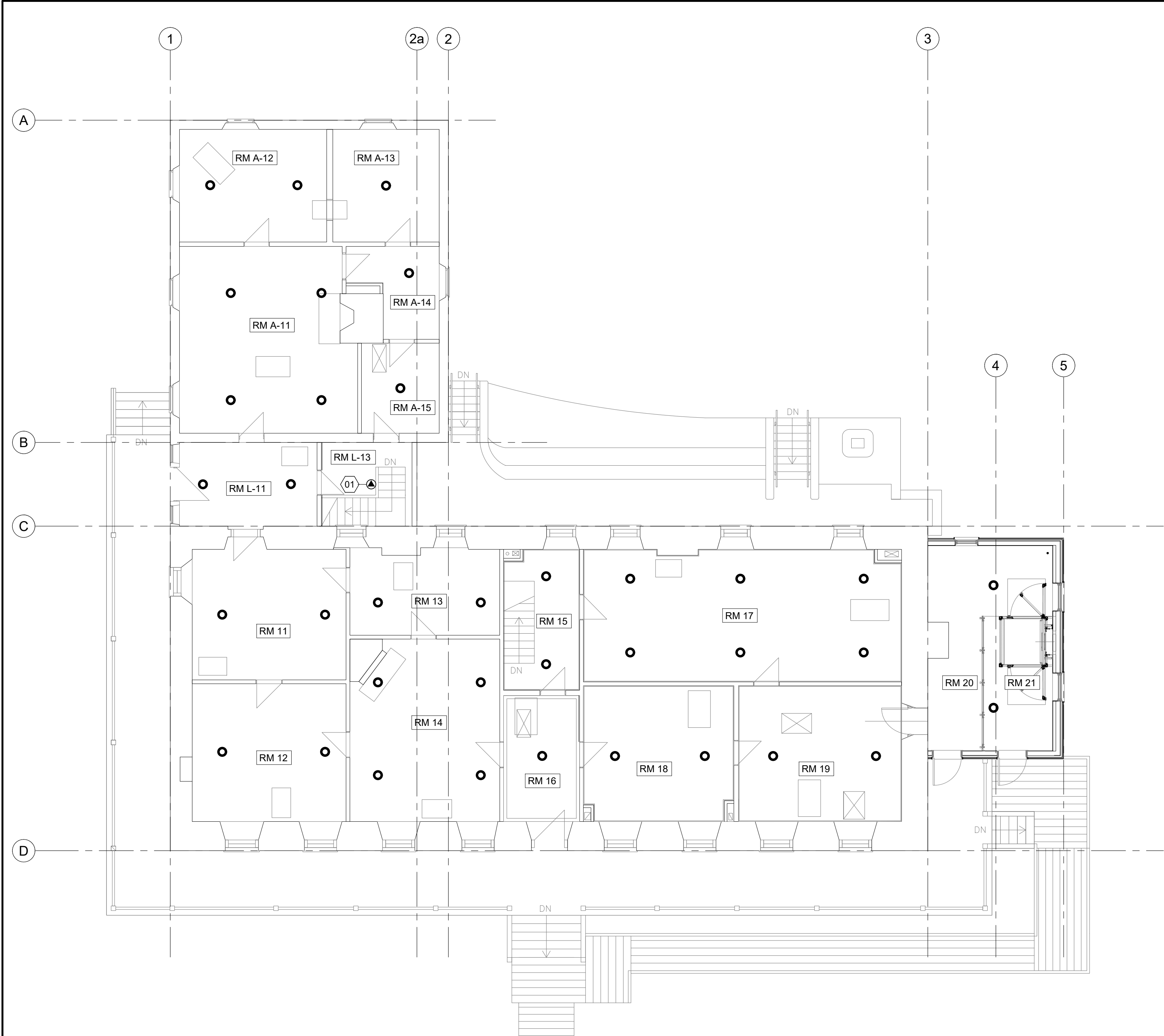
Designed by LL
Drawn by JHW
Approved by LL
Project Manager
CHRISTINE LeCLERC

Drawing title
BIG HOUSE FIRE PROTECTION PLAN BASEMENT FLOOR

Project no./No. du projet
5P468-21-0054

Sheet no./No. de la feuille
M1.1
16 OF 42

M1.1.dwg



BIG HOUSE- MAIN FLOOR PLAN

1:100

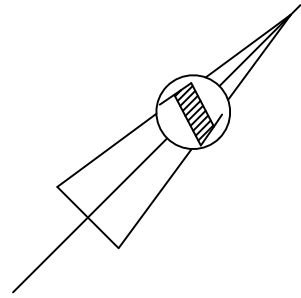
LEGEND	
ITEM	SYMBOL
EXISTING SPRINKLER HEAD	⊙
NEW SPRINKLER HEAD	⬆

BIG HOUSE CONSTRUCTION NOTES - MAIN FLOOR:

- 01 INSTALL NEW DRY TYPE PENDANT SPRINKLER HEAD.
CONFIRM BARREL LENGTH ON SITE.

BIG HOUSE GENERAL CONSTRUCTION NOTES - MAIN FLOOR

- PERMANENT LABELS ARE TO BE PROVIDED FOR ALL
SPRINKLER CONTROL VALVES, LOW POINT DRAINS,
INSPECTOR'S TEST SYSTEMS AND FIRE ALARM DEVICES.



SEAL

5		
4		
3	TENDER READY RESUBMISSION	2022-06-29
2	TENDER READY	2022-04-11
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0	ISSUED FOR 90% REVIEW	2021-11-08

Revision Description Date Client

PARKS CANADA AGENCY
.
.
220 4 AVE SE, SUITE 720
CALGARY, AB. T2G 4X3

Project title
LOWER FORT GARRY
NATIONAL HISTORIC SITE
ST. ANDREWS, MB.
REHABILITATION
FROM WATER DAMAGE
LOWER FORT GARRY

Designed by Conçu par
LL

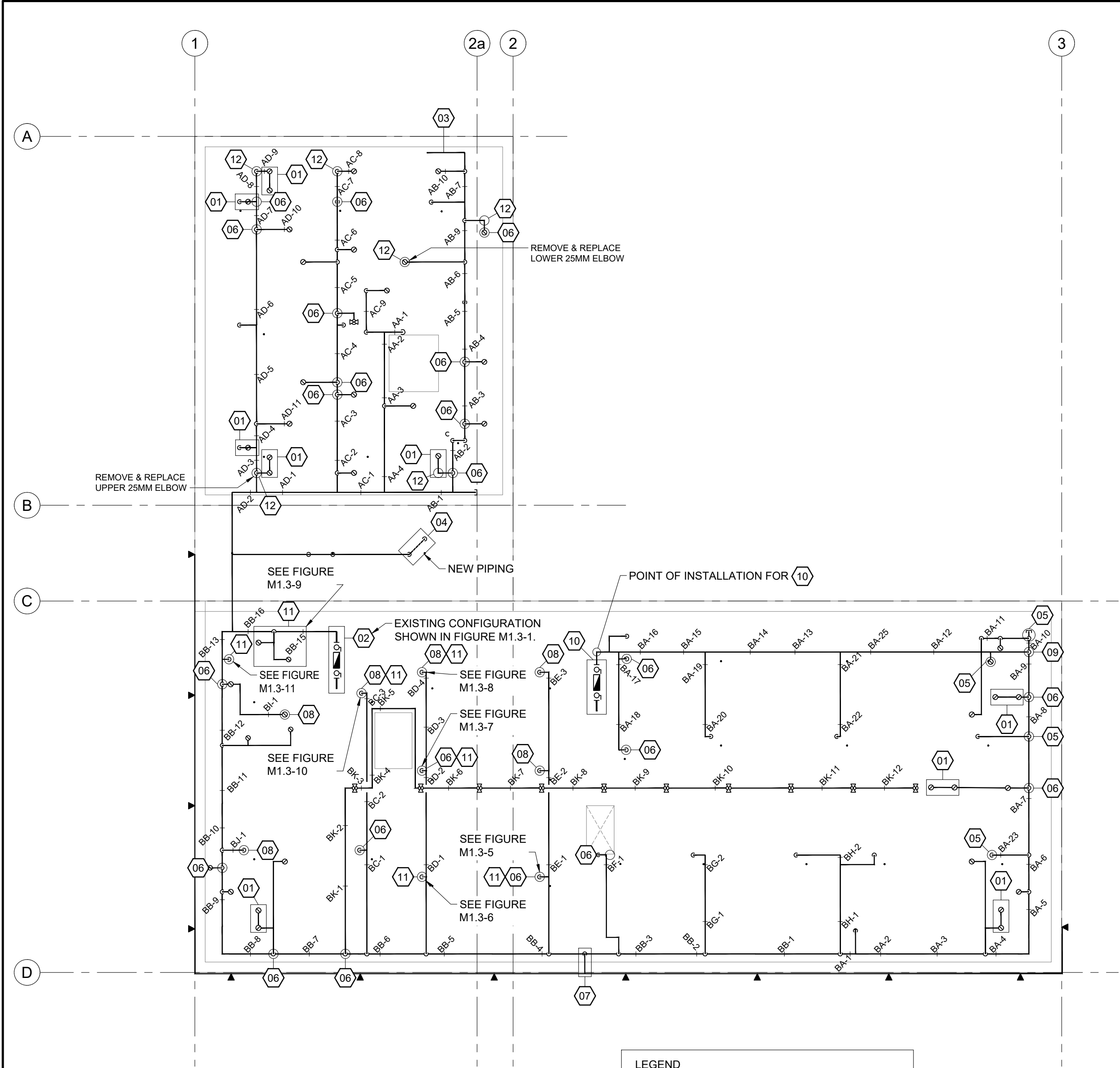
Drawn by Dessiné par
JHW

Approved by Approuvé par
LL

Project Manager Administrateur de Projets IPSGC
CHRISTINE LeCLERC

Drawing title Titre du dessin
BIG HOUSE
FIRE PROTECTION PLAN
MAIN FLOOR
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Project No./No. du projet	Drawing No./No. du dessin	Revision No.
5P468-21-0054	M1.2	R00
	17 OF 42	



BIG HOUSE- ATTIC LEVEL

1:100

LEGEND	
ITEM	SYMBOL
EXISTING UPRIGHT SPRINKLER HEAD	
EXISTING SIDE SPRINKLER HEAD	
EXISTING PENDANT SPRINKLER HEAD	
EXISTING DROP TO SPRINKLER HEAD IN MAIN FLOOR	
EXISTING SPRINKLER LINE	
DRY SYSTEM AUXILIARY DRAIN	
EXISTING SPRINKLER SUPPORT LOCATION	AA-#

BIG HOUSE CONSTRUCTION NOTES - ATTIC:

- 01
- INSTALL PIPING AS INDICATED TO HAVE THE SPRINKLER HEAD A DISTANCE OF 1500mm AWAY FROM ATTIC WALL.
- 02
- INSTALL DOWN TURN ELBOW AT POINT INDICATED ON FIGURE M1.3-1. SLOPE DOWNWARDS AT MINIMUM 15%. INSTALL LOW POINT DRAIN AS INDICATED IN DETAIL M1.3-A.
- 03
- INSTALL TURN DOWN ELBOW AT POINT INDICATED ON FIGURE M1.3-2. SLOPE AT MINIMUM 15%. RE-INSTALL INSPECTOR'S TEST SYSTEM. REFER TO DETAIL M1.3-D.
- 04
- EXTEND EXISTING SPRINKLER BRANCH 1000mm IN DIRECTION INDICATED. INSTALL CONCEALED SPRINKLER BRANCH OR MAIN FLOOR. BRANCH TO BE SLOPED BACKWARDS AT 0.60%.
- 05
- ADJUST PIPING LENGTH AS PER DETAIL M1.3-B.
- 06
- ADJUST PIPING LENGTH AS PER DETAIL M1.3-C.
- 07
- REFER TO FIGURE M1.3-3 FOR CONSTRUCTION NOTES.
- 08
- INSTALL NEW 25mm DRY TYPE CONCEALED SPRINKLER. SPRINKLER TO BE TYCO SERIES DS-C. CONTRACTOR TO SITE VERIFY SPRINKLER BARREL LENGTH NEEDED TO SLOPE BACK TO THE MAIN BRANCH AT A 0.60% SLOPE.
- 09
- REALIGN ALL 3 PIPES INTO THE TEE. EXISTING CONNECTION IS ANGLED. SEE FIGURE M1.3-4 FOR EXISTING CONDITIONS.
- 10
- INSTALL NEW DOWN TURN ELBOW AND LOW POINT DRAIN. REFERENCE DETAIL M1.3-A FOR INSTALLATION DETAILS.
- 11
- REPLACE FITTING. SEE REFERENCED FIGURE
- 12
- REMOVE AND REPLACE 25mm ELBOW

BIG HOUSE GENERAL CONSTRUCTION NOTES - ATTIC:

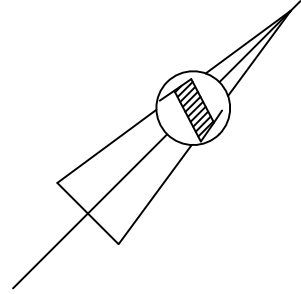
- ADJUST HANGER ELEVATION AS PER HANGER ADJUSTMENT TABLE.
- CONTRACTOR TO DISASSEMBLE PIPING AS REQUIRED WHEN ADJUSTING HANGERS. THE BOTTOM OF THE HANGER MUST BE IN FULL CONTACT WITH PIPE. THE MINIMUM SLOPE OF THE PIPE MUST BE A 0.42% DOWNWARDS SLOPE TOWARDS THE DRAIN.
- PERMANENT LABELS ARE TO BE PROVIDED FOR ALL SPRINKLER CONTROL VALVES, LOW POINT DRAINS, INSPECTOR'S TEST SYSTEMS AND FIRE ALARM DEVICES.

Big House Attic Hanger Adjustment Tables

Hanger Tag	Elevation Increase (mm)
AA-1	0
AA-2	0
AA-3	0
AA-4	0
AB-1	6.5
AB-2	13
AB-3	18
AB-4	25
AB-5	45
AB-6	10
AB-7	0
AB-9	0
AB-10	10
AC-1	5
AC-2	26
AC-3	39
AC-4	34
AC-5	34
AC-6	13
AC-7	0
AC-8	13
AD-1	6
AD-2	0
AD-3	13
AD-4	20
AD-5	27.5
AD-6	40
AD-7	27.5
AD-8	0
AD-9	1
AD-10	27
AD-11	25

Big House Attic Hanger Adjustment Tables

Hanger Tag	Elevation Increase (mm)
BA-2	0
BA-3	12
BA-4	10
BA-5	18
BA-6	23
BA-7	33
BA-8	40
BA-9	30
BA-10	30
BA-11	3
BA-12	10
BA-25	-5
BA-13	-10
BA-14	-22
BA-15	-40
BA-16	-50
BA-17	35
BA-18	30
BA-19	0
BA-20	0
BA-21	0
BA-22	0
BA-23	15
BB-1	17
BB-2	27
BB-3	38
BB-4	54
BB-5	54
BB-6	64
BB-7	70
BB-8	63
BB-15	0
BB-16	-7
BB-13	3
BB-12	22
BB-11	45
BB-10	54
BB-9	63
BC-1	56
BC-2	60
BC-3	77
BD-1	53
BD-2	55
BD-3	81
BD-4	108
BE-1	61
BE-2	71
BE-3	87
BF-1	21
BG-1	25
BG-2	20
BH-1	0
BH-2	5
BI-1	9
BJ-1	58
BK-1	0
BK-2	0
BK-3	0
BK-4	-5
BK-5	5
BK-6	20
BK-7	31
BK-8	28
BK-9	25
BK-10	10
BK-11	20
BK-12	17



SEAL

5		
4		
3	TENDER READY RESUBMISSION	2022-06-29
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1	ISSUED FOR 99% REVIEW RESUBMISSION	2021-12-14
0	ISSUED FOR 99% REVIEW	2021-11-08
Revision	Description	Date
Client		Client

PARKS CANADA AGENCY

220 4 AVE SE, SUITE 720
CALGARY, AB. T2G 4X3

Project Title
LOWER FORT GARRY
NATIONAL HISTORIC SITE
ST. ANDREWS, MB.
Rehabilitation
FROM WATER DAMAGE
LOWER FORT GARRY

Designed by LL	Conçu par
Drawn by JHW	Dessiné par
Approved by LL	Approuvé par
Project Engineer Manager CHRISTINE LeCLERC	Administrateur de Projets IPSGC

Drawing Title
BIG HOUSE
FIRE PROTECTION PLAN
ATTIC LEVEL

Project No./No. du projet	Revision No./No. de la révision	Revision No.
5P468-21-0054	M1.3	R00

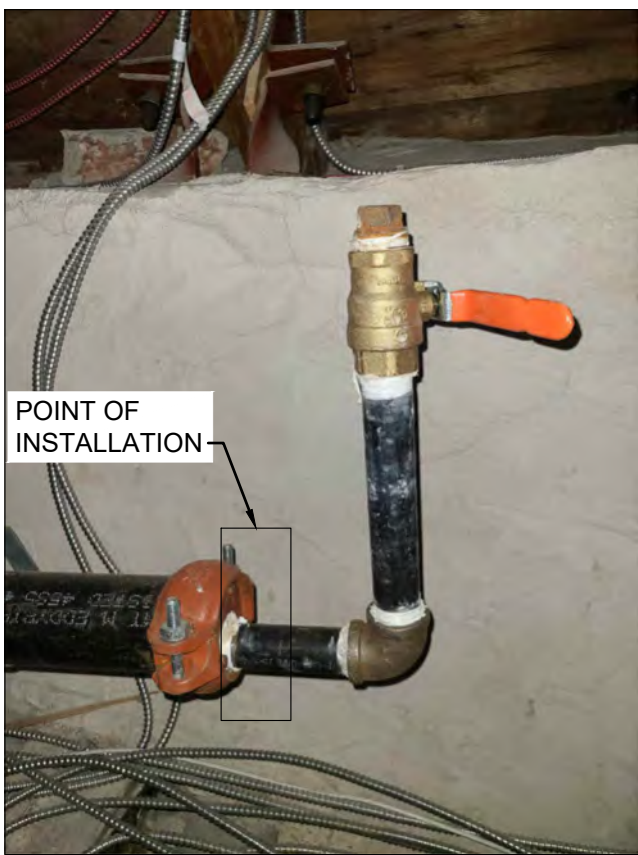


FIGURE M1.3-1



FIGURE M1.3-2

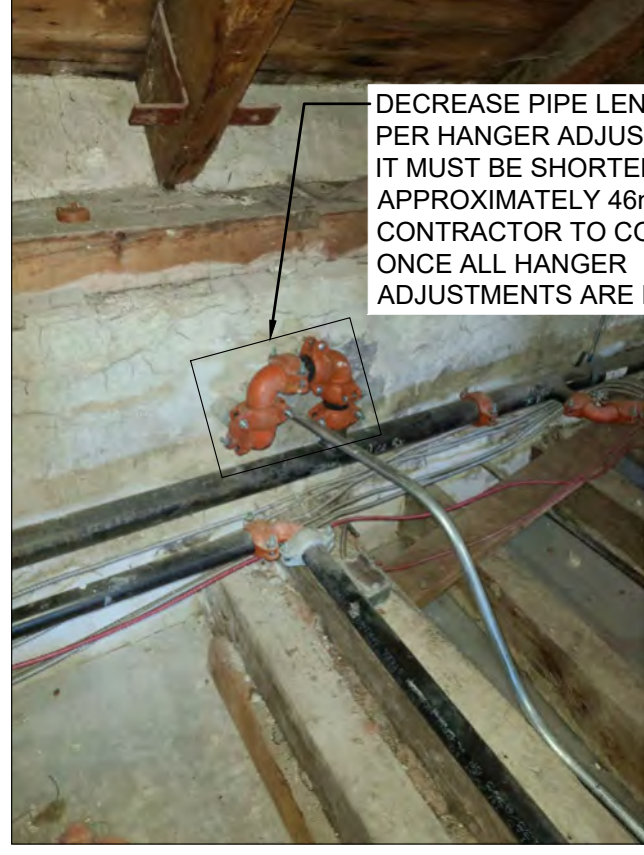
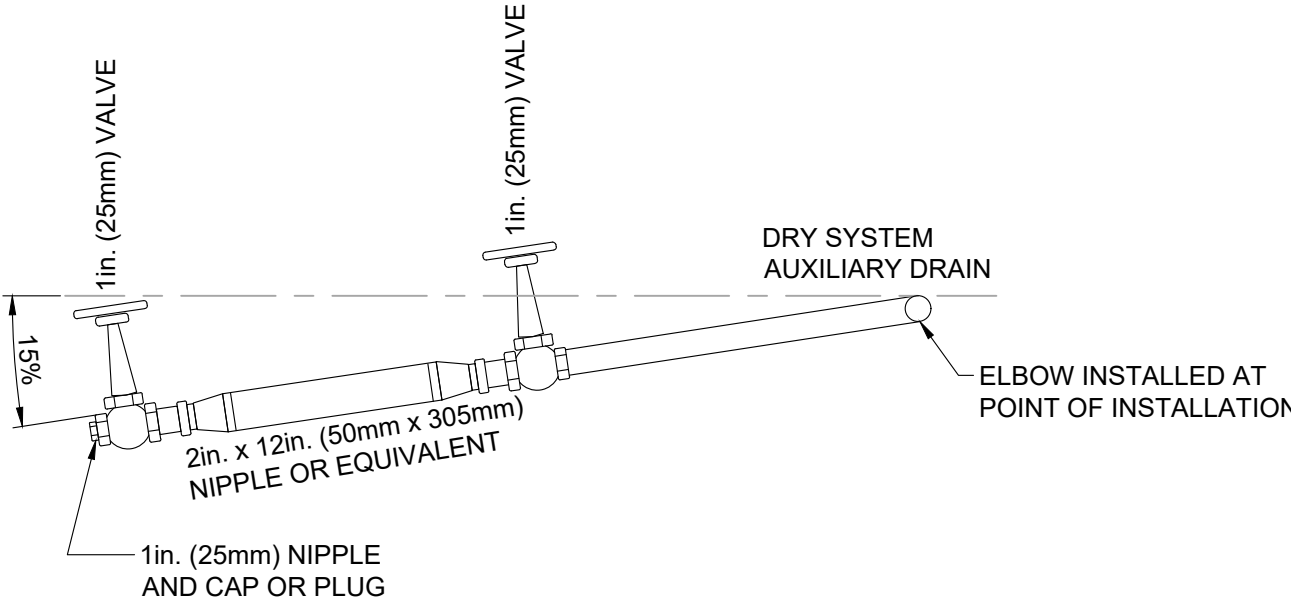
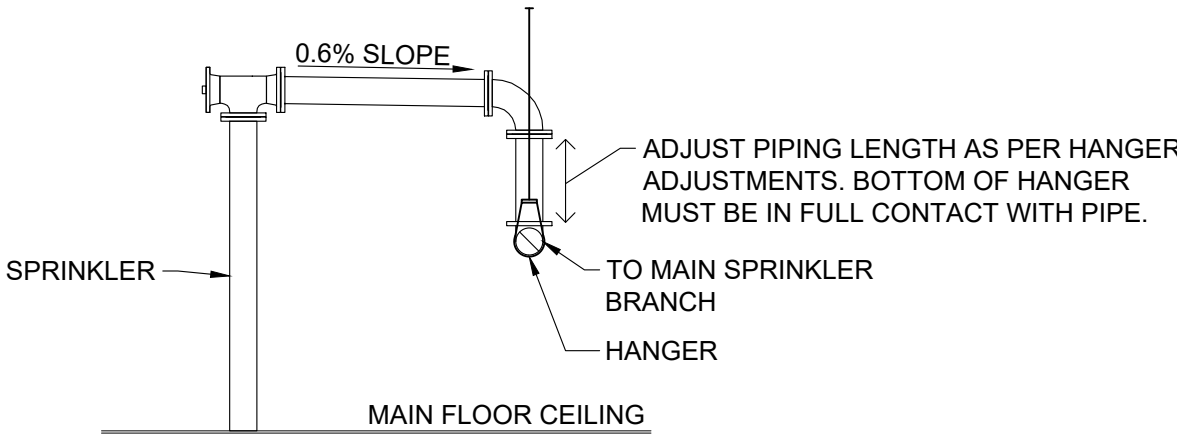


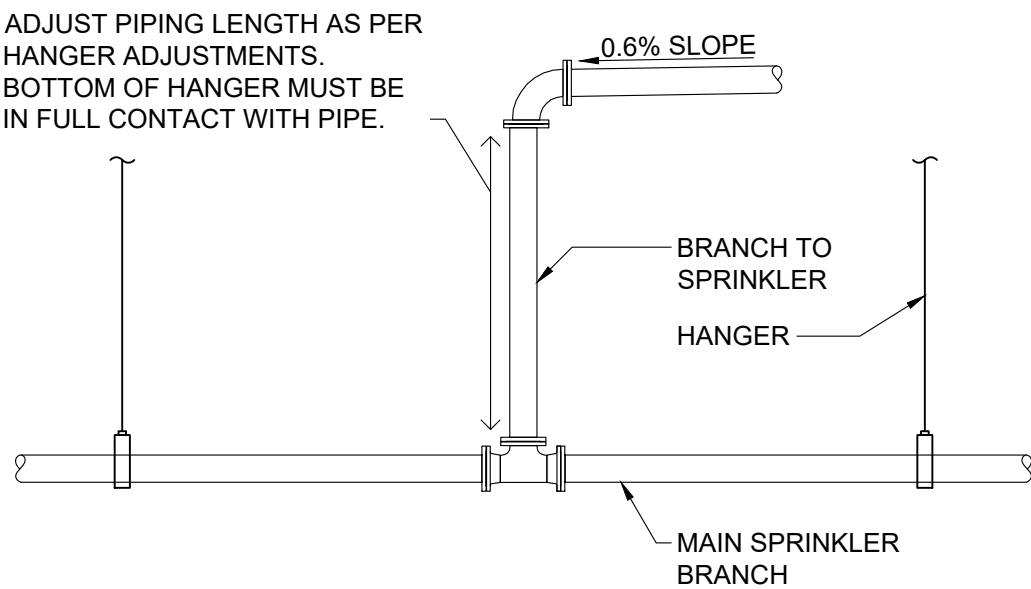
FIGURE M1.3-3



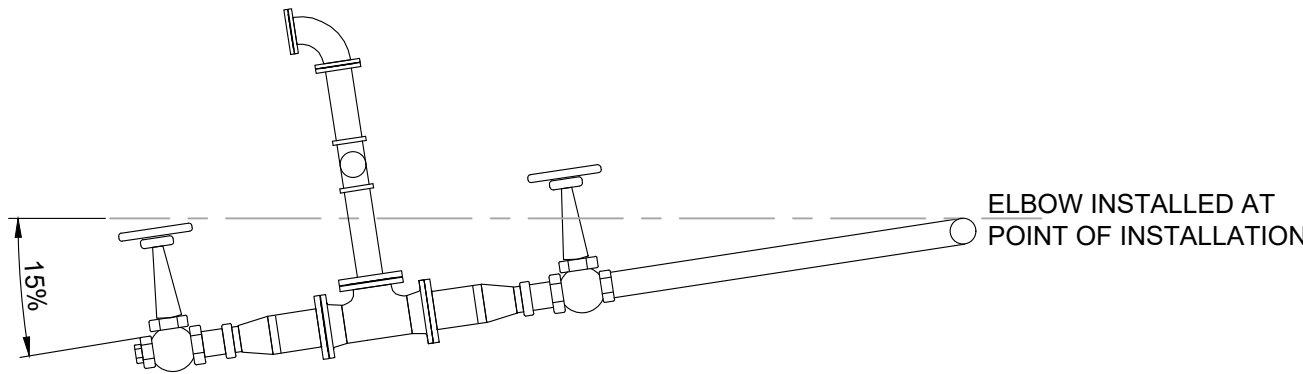
DETAIL M1.3-A: DRY SYSTEM AUXILIARY DRAIN



DETAIL M1.3-B: PIPING LENGTH ADJUSTMENT



DETAIL M1.3-C: PIPING LENGTH ADJUSTMENT



DETAIL M1.3-D: INSPECTOR'S TEST SYSTEM REINSTALLATION



FIGURE M1.3-4



FIGURE M1.3-5

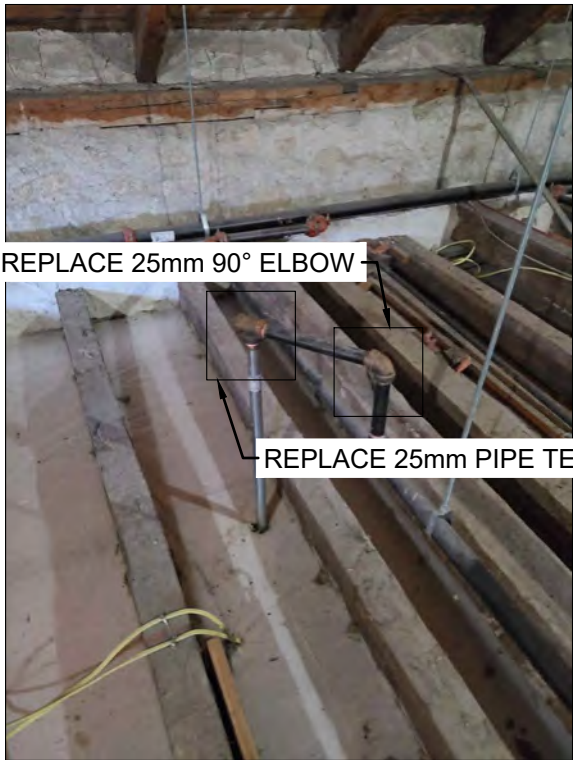


FIGURE M1.3-6



FIGURE M1.3-7



FIGURE M1.3-8



FIGURE M1.3-9



FIGURE M1.3-10

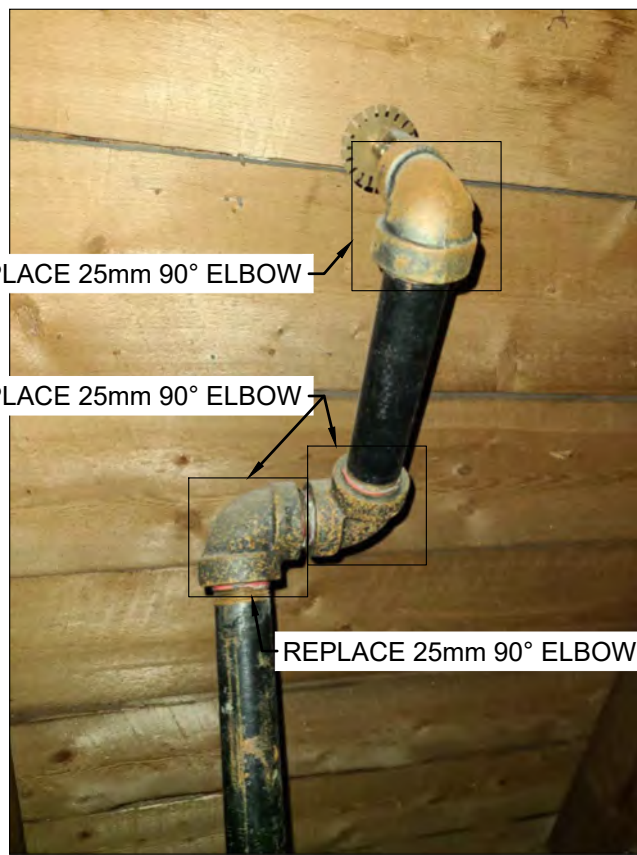


FIGURE M1.3-11

SEAL

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3	TENDER READY RESUBMISSION	2022-06-29
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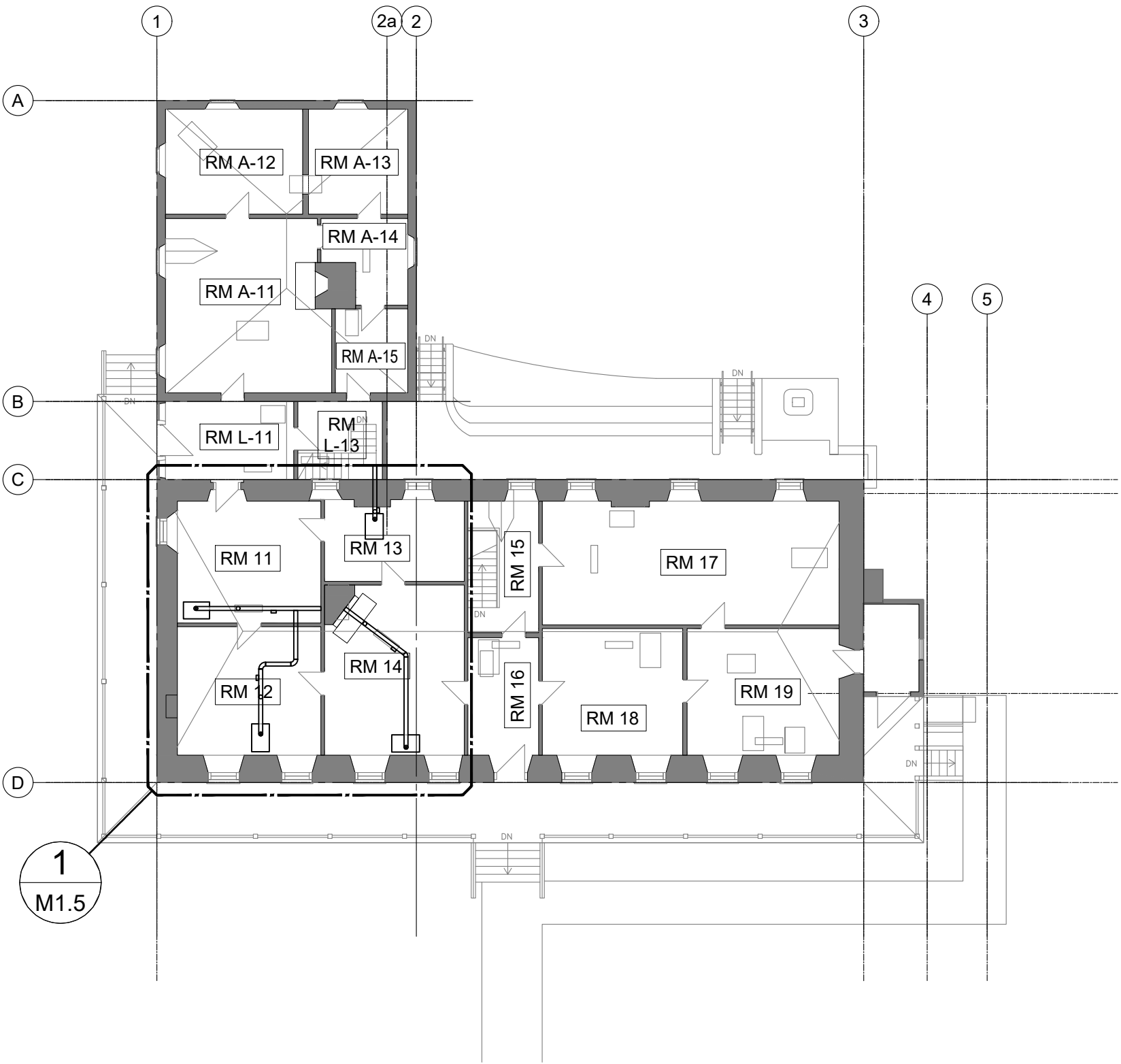
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LOWER FORT GARRY
NATIONAL HISTORIC SITE
ST. ANDREWS, MB.

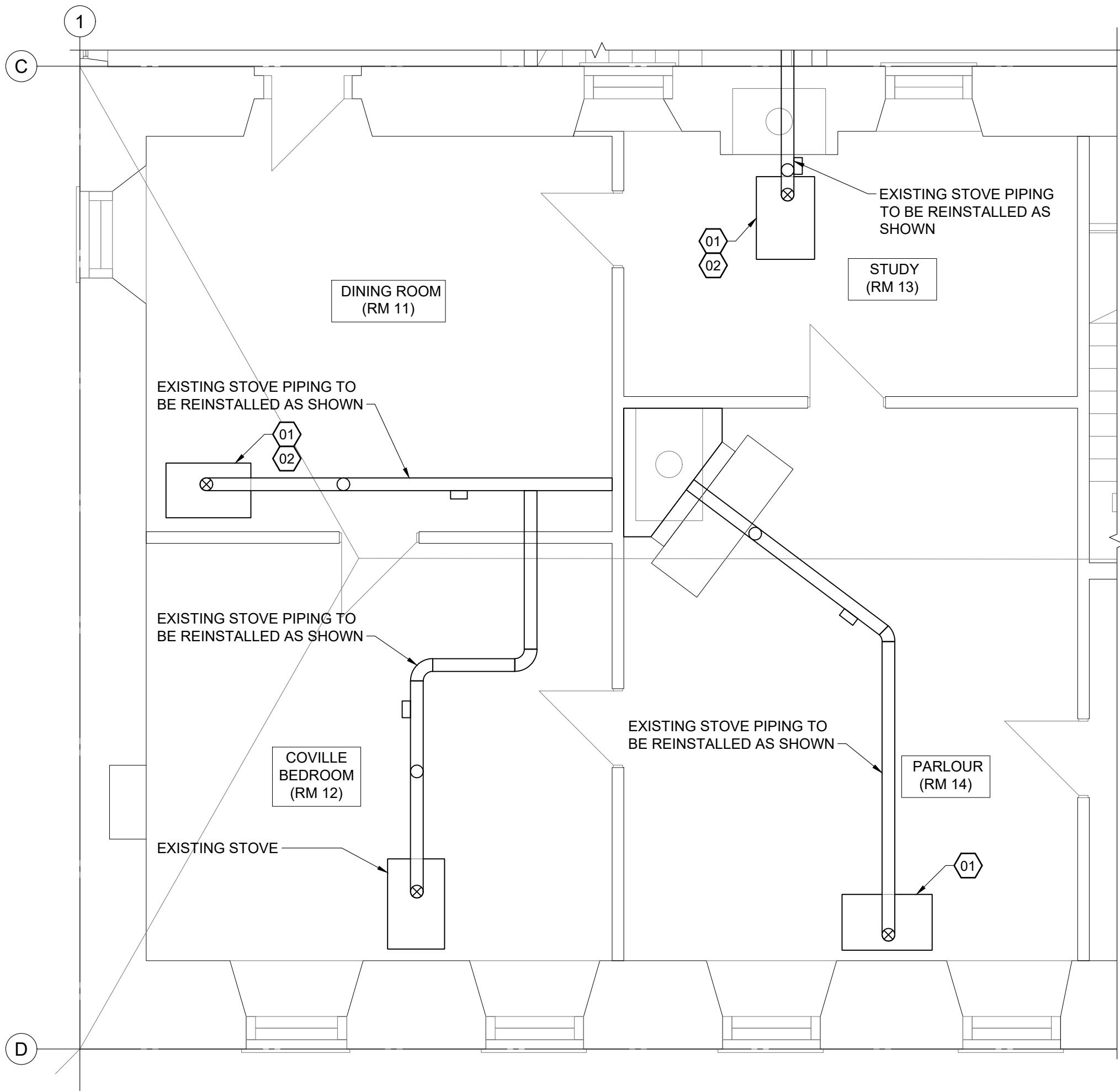
REHABILITATION
FROM WATER DAMAGE
LOWER FORT GARRY

Designed by GMF	Conçu par
Drawn by JHW	Dessiné par
Approved by LL	Approuvé par
Project Manager CHRISTINE LeCLERC	Administrateur de Projets IPSGC
Drawing title BIG HOUSE FIRE PROTECTION PLAN FIGURES	Titre du dessin
Project no./No. du projet 5P468-21-0054	Project no./No. du projet M1.4
	Project no./No. du projet R00



KEY PLAN - MAIN FLOOR

1:200



PARTIAL LAYOUT - MAIN FLOOR

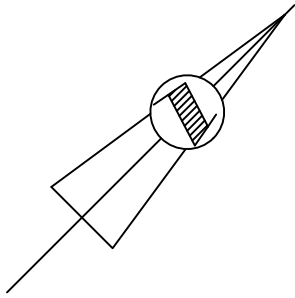
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SHEET REF. M1.5

GENERAL CONSTRUCTION NOTES:

- REINSTALL EXISTING STOVE CHIMNEY METAL DUCTS AND STOVES. DUCT COMPONENTS ARE TO BE FITTED TOGETHER AND RIVETED. THERE ARE EXISTING RIVET HOLES IN DUCTS.

CONSTRUCTION NOTES:

- 01 EXISTING STOVE TO BE REINSTALLED.
- 02 EXISTING STOVE IS DISMANTLED AND IS TO BE REASSEMBLED.



SEAL

5	-	-
4	-	-
3	TENDER READY RESUBMISSION	2022-06-29
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0	ISSUED FOR 90% REVIEW	2021-11-08

Revision Client Description Date

Client Client

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220 4 AVE SE, SUITE 720
CALGARY, AB. T2G 4X3

Project title Projet

LOWER FORT GARRY
NATIONAL HISTORIC SITE
ST. ANDREWS, MB.

REHABILITATION
FROM WATER DAMAGE
LOWER FORT GARRY

Designed by Conçu par

GMF

Drawn by Dessiné par

SSM

Approved by Approuvé par

LL

Project Manager Administrateur de Projets TPSGC

CHRISTINE LeCLERC

Drawing title Titre du dessin

BIG HOUSE
STOVE PIPE LAYOUT

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Project No./No. du projet Drawing No./No. du dessin Revision No.

5P468-21-0054

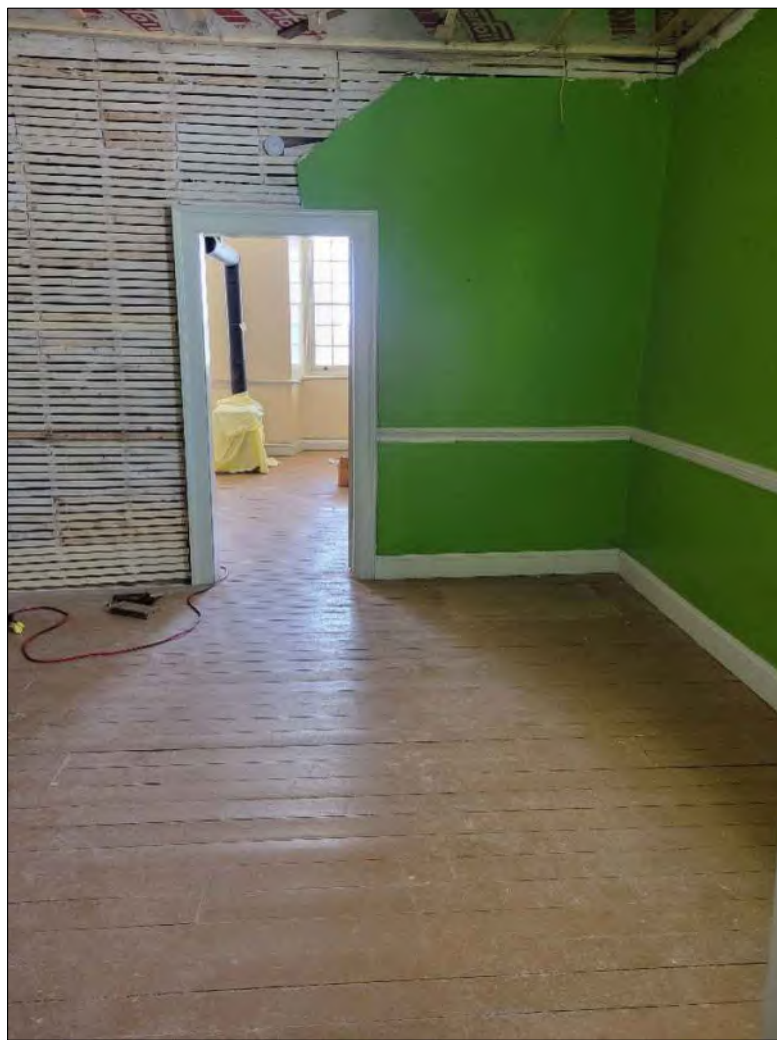
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20 OF 42

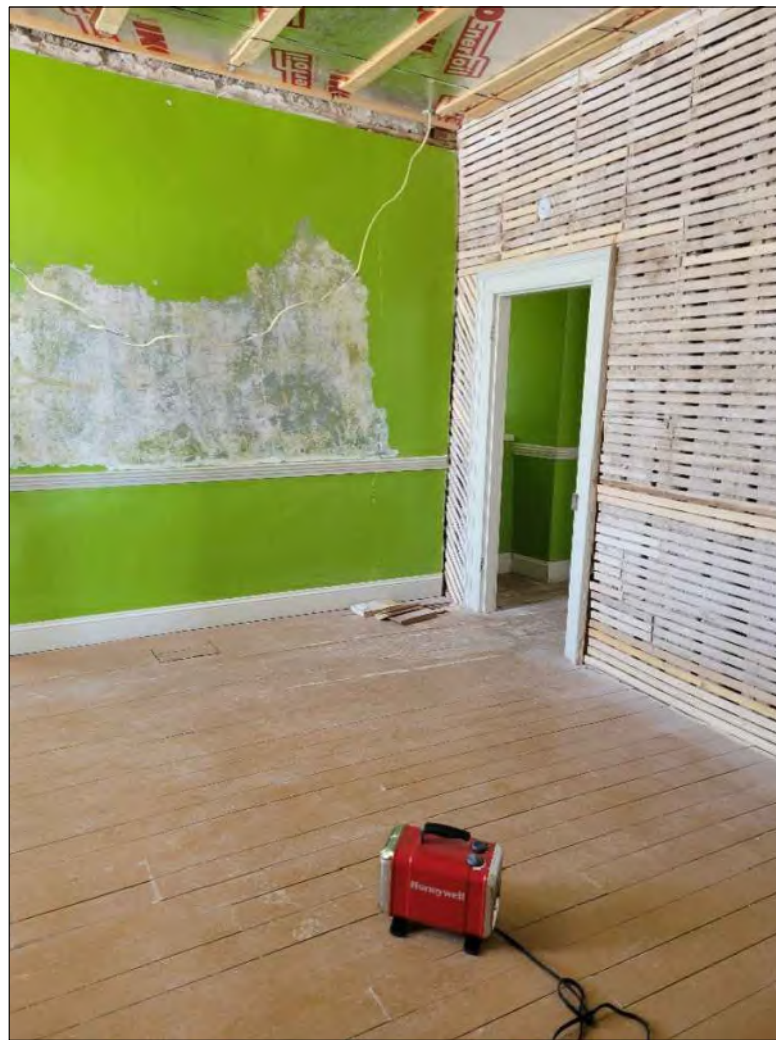
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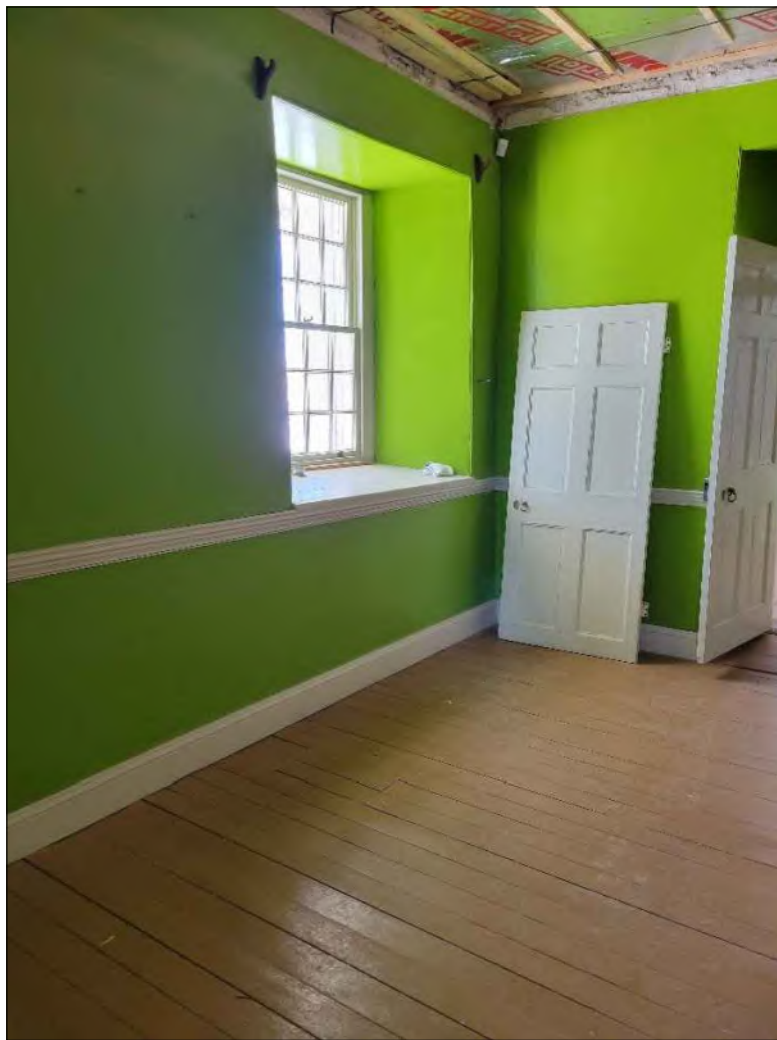
NE CORNER – DINING ROOM (RM 11)



SE CORNER/EAST WALL – DINING ROOM (RM 11)



NW CORNER – DINING ROOM (RM 11)



SW CORNER – DINING ROOM (RM 11)

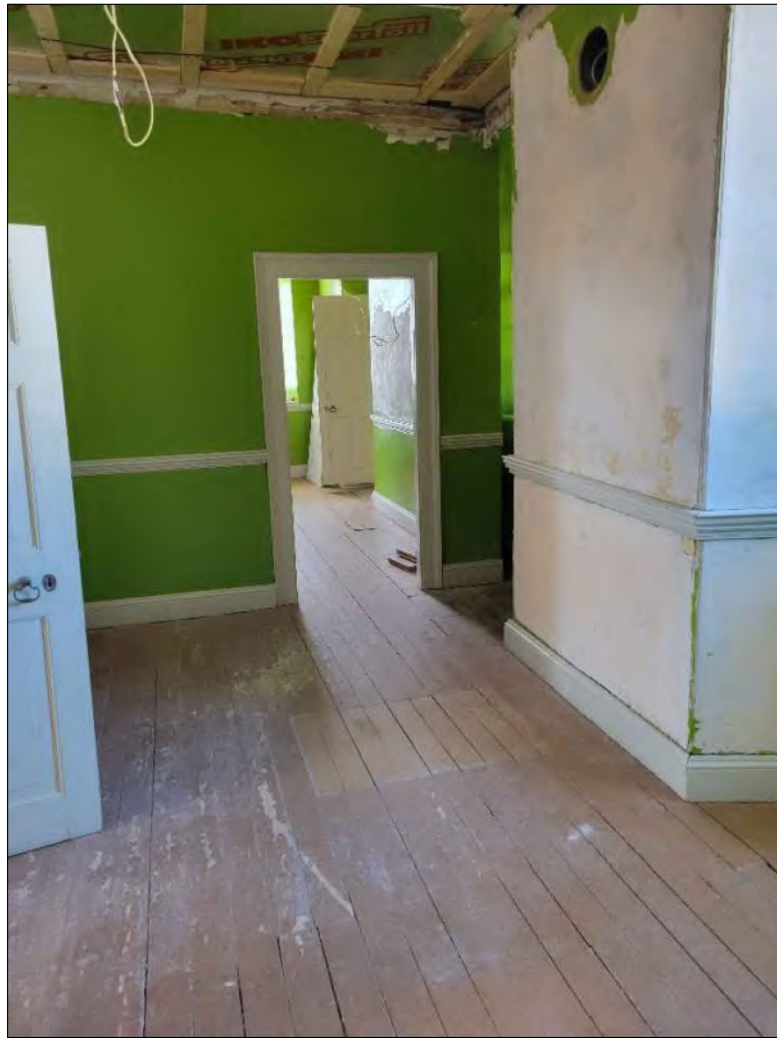
DINING ROOM (RM 11) - EMPTY (AFTER FLOODING)



DINING ROOM (RM 11) - FURNISHED (PRIOR TO FLOODING)



NORTH WALL – STUDY (RM 13)




SOUTH WALL – STUDY (RM 13)



SE CORNER – STUDY (RM 13)

STUDY (RM 13) - EMPTY (AFTER FLOODING)



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4		
3	TENDER READY RESUBMISSION	2022-06-29
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0	ISSUED FOR 99% REVIEW	2021-11-08
Revision	Description	Date
Client		Client

PARKS CANADA AGENCY

**220 4 AVE SE, SUITE 720
CALGARY, AB. T2G 4X3**

Project title

Projet

**LOWER FORT GARRY
NATIONAL HISTORIC SITE
ST. ANDREWS, MB.**

**REHABILITATION
FROM WATER DAMAGE
LOWER FORT GARRY**

Designed by

Conçu par

LL

Drawn by

Dessiné par

RTD

Approved by

Approuvé par

LL

Project Manager

Administrateur de Projets

CHRISTINE LeCLERC

Drawing title

Titre du dessin

**BIG HOUSE ROOMS
& STOVE INFO
FIGURES**

Project no./No. du projet

Project no./No. de dessin

Revision no.

5P468-21-0054

M1.6

R00

42 OF 21

PWGSC – A1 – R41X594

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

M1.6.dwg



STUDY (RM 13) - FURNISHED (PRIOR TO FLOODING)



NE CORNER – COLVILLE BEDROOM (RM 12)



SOUTH WALL – COLVILLE BEDROOM (RM 12)

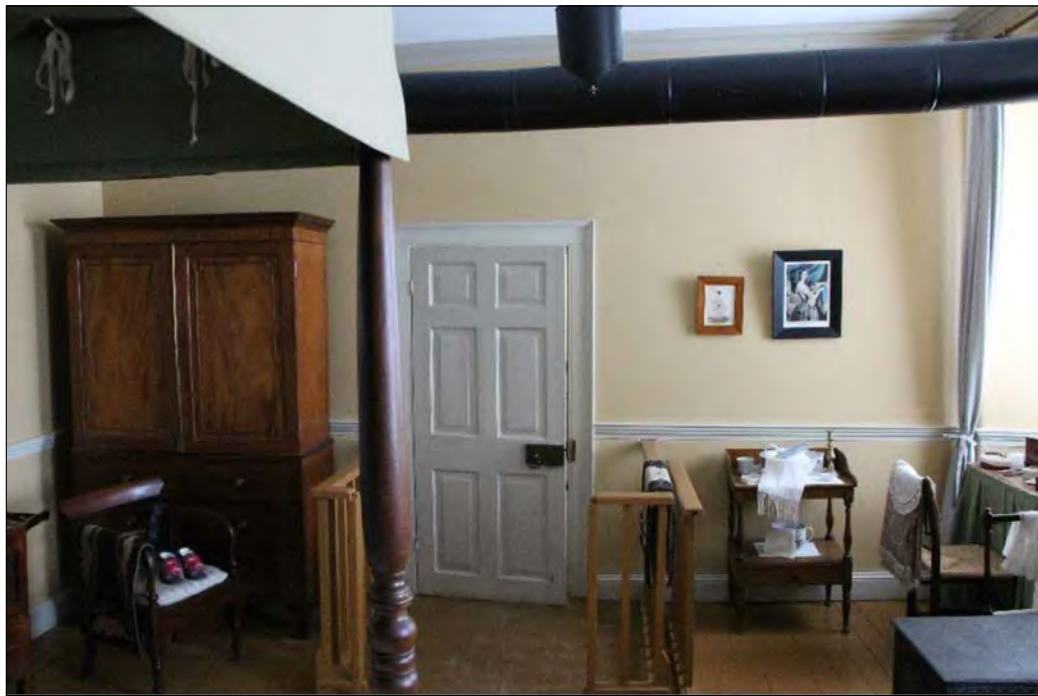


SE CORNER – COLVILLE BEDROOM (RM 12)




SW CORNER – COLVILLE BEDROOM (RM 12)

COVILL BEDROOM (RM 12) - EMPTY (AFTER FLOODING)



COLVILLE BEDROOM (RM 12) - FURNISHED (PRIOR TO FLOODING)



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3	TENDER READY RESUBMISSION	2022-06-29
2	TENDER READY	2022-04-11
1	ISSUED FOR 90% REVIEW RESUBMISSION	2021-12-14
0	ISSUED FOR 90% REVIEW	2021-11-08

Revision	Description	Date
Client		Client

PARKS CANADA AGENCY

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220 4 AVE SE, SUITE 720
CALGARY, AB. T2G 4X3

Project Title	Project
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LOWER FORT GARRY
NATIONAL HISTORIC SITE
ST. ANDREWS, MB.

REHABILITATION
FROM WATER DAMAGE
LOWER FORT GARRY

Designed by	Conçu par
LL	
Drawn by	Dessiné par
RTD	
Approved by	Approuvé par
LL	
Project Manager	Administrateur de Projets
CHRISTINE LeCLERC	IPSSC
Drawing title	Titre du dessin

BIG HOUSE ROOMS
& STOVE INFO
FIGURES

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Project No./No. du projet	Project No./No. du dessin	Revision No.
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5P468-21-0054

M1.7
22 OF 42

R00

PWGSC – A1 – R41X594

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

M1.7.dwg



EAST WALL – PARLOUR (RM 14)



NE CORNER – PARLOUR (RM 14)



SE CORNER – PARLOUR (RM 14)


PARLOUR (RM 14) - EMPTY (AFTER FLOODING)



PARLOUR (RM 14) - FURNISHED (PRIOR TO FLOODING)



STUDY (RM 13) - DISMANTLED STOVE



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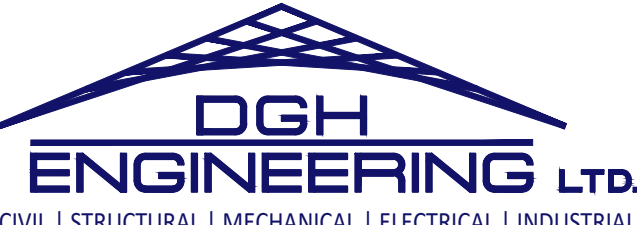
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3	TENDER READY RESUBMISSION	2022-06-29
2	TENDER READY	2022-04-11
1	ISSUED FOR 90% REVIEW RESUBMISSION	2021-12-14
0	ISSUED FOR 90% REVIEW	2021-11-08

Revision	Description	Date
Client		

PARKS CANADA AGENCY

220 4 AVE SE, SUITE 720
CALGARY, AB. T2G 4X3

Project Title	Project
LOWER FORT GARRY NATIONAL HISTORIC SITE ST. ANDREWS, MB. REHABILITATION FROM WATER DAMAGE LOWER FORT GARRY	
Designed by	Conçu par
LL	
Drawn by	Dessiné par
RTD	
Approved by	Approuvé par
LL	
Project Manager	Administrateur de Projets
CHRISTINE LeCLERC	TPSGC
Drawing title	Titre du dessin
BIG HOUSE ROOMS & STOVE INFO FIGURES . . .	

Project No./No. du projet	Revision No./No. de la Rev.	Revision
5P468-21-0054	M1.8	R00

23 OF 42

PWGSC – A1 – 841X594

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

M1.8.dwg



EAST WALL – PARLOUR (RM 14)



DINING ROOM (RM 11) - DISMANTLED STOVE

NOTE:
THE STOVE IN THE COVILLE BEDROOM HAS NOT MOVED AND IS CURRENTLY ASSEMBLED AND IN ITS PROPER PLACE. ALL STOVE PIPING IS CURRENTLY LOCATED IN THE MEN'S HOUSE (NORTH SIDE)




STOVE – COVILLE BEDROOM (RM 12)

COVILLE BEDROOM (RM 12) - STOVE

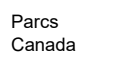


DISMANTLED STOVE PIPING

STOVE PIPING NOTES:		
01	DINING ROOM (RM 11)	
02	COVILLE BEDROOM (RM 12)	
03	STUDY (RM 13)	
04	PARLOUR (RM 14)	



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Revision	Description	Date
Client		Client

PARKS CANADA AGENCY

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220 4 AVE SE, SUITE 720
CALGARY, AB. T2G 4X3

Project title	Projet
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LOWER FORT GARRY
NATIONAL HISTORIC SITE
ST. ANDREWS, MB.

REHABILITATION
FROM WATER DAMAGE
LOWER FORT GARRY

Designed by	Conçu par
LL	
Drawn by	Dessiné par
RTD	
Approved by	Approuvé par
LL	
Project Manager	Administrateur de Projets
CHRISTINE LeCLERC	TPSGC

Drawing title	Titre du dessin
---------------	-----------------

BIG HOUSE
STOVE INFO
FIGURES

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Project No./No. du projet	Revision No./No. de la Rev.	Revision No.
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5P468-21-0054

M1.9
24 OF 42

R00

PWGSC – A1 – R41X594

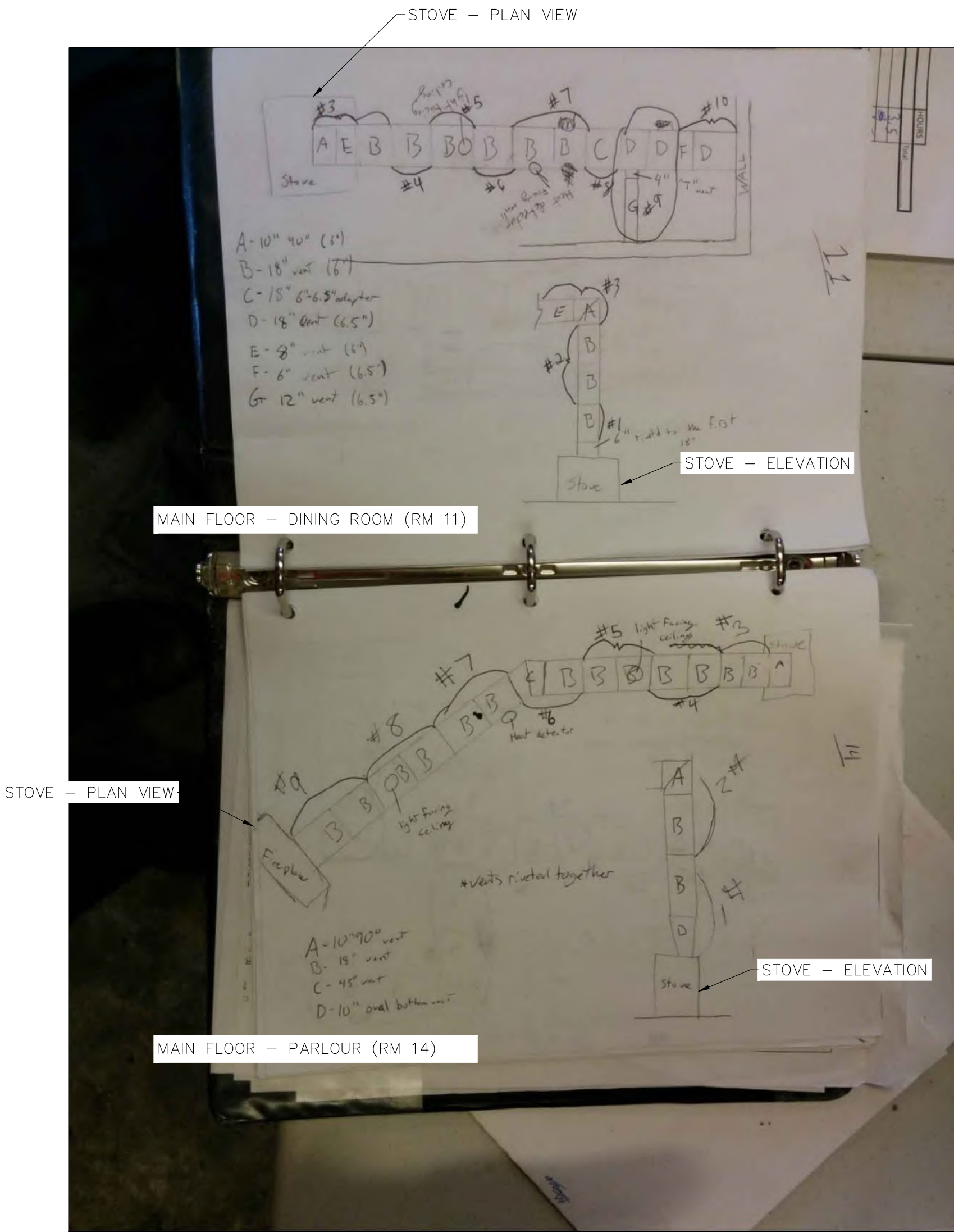
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M1.9.dwg



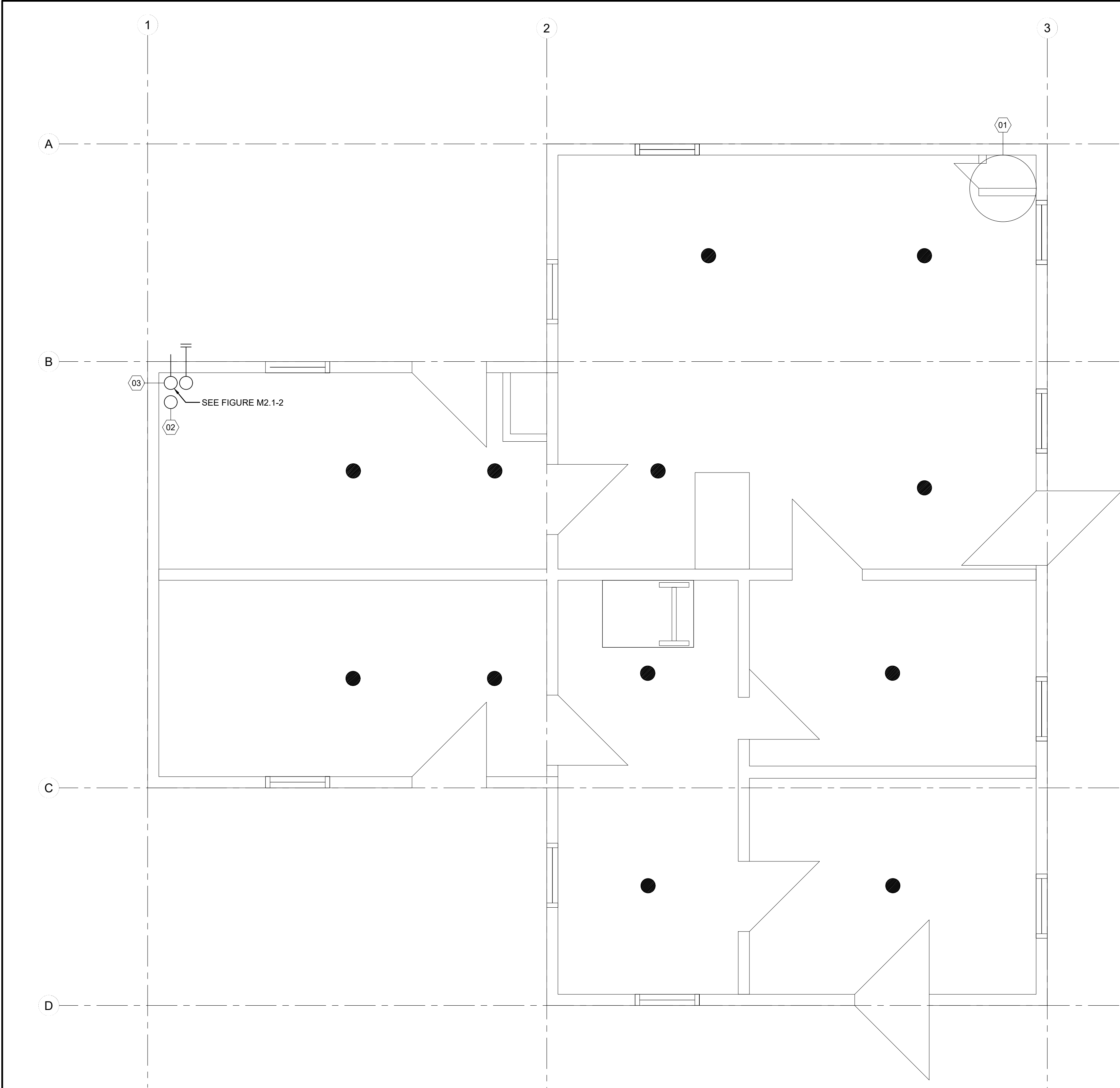
DISMANTLED STOVE PIPING

STOVE PIPING NOTES:	
01	DINING ROOM (RM 11)
02	COVILLE BEDROOM (RM 12)
03	STUDY (RM 13)
04	PARLOUR (RM 14)



STOVE PIPING ASSEMBLY SKETCHES

SEAL		
5	.	.
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3	TENDER READY RESUBMISSION	2022-06-29
2	TENDER READY	2022-04-11
1	ISSUED FOR 99% REVIEW RESUBMISSION	2021-12-14
0	ISSUED FOR 99% REVIEW	2021-11-08
Revision	Description	Date
Client		client
PARKS CANADA AGENCY		
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220 4 AVE SE, SUITE 720 CALGARY, AB. T2G 4X3		
Project title	Project	
LOWER FORT GARRY NATIONAL HISTORIC SITE ST. ANDREWS, MB.		
REHABILITATION FROM WATER DAMAGE LOWER FORT GARRY		
Designed by	Conçu par	
LL		
Drawn by	Dessiné par	
RTD		
Approved by	Approuvé par	
LL		
IPSGC - Project Manager	Administrateur de Projets (IPSGC)	
CHRISTINE LeCLERC		
Drawing title	Titre du dessin	
BIG HOUSE STOVE INFO FIGURES		
.		
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Project no./No. du projet	Drawing no./No. du dessin	Revision no.
5P468-21-0054	M1.10 25 OF 42	R00



MEN'S HOUSE- MAIN FLOOR

1:50

LEGEND	
ITEM	SYMBOL
EXISTING SPRINKLER HEAD	

MEN'S HOUSE CONSTRUCTION NOTES - MAIN FLOOR:

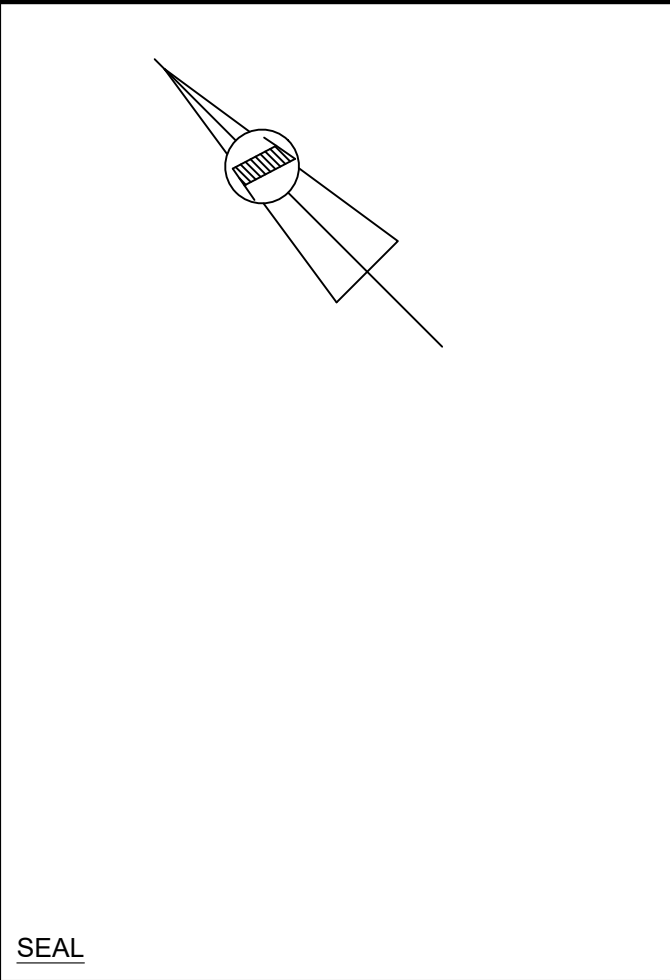
01) INSTALL NEW HEAT TRACE FOR THE SPRINKLER SYSTEM INCOMING SERVICE LOCATED AS INDICATED. HEAT TRACE SYSTEM IS TO BE SUITABLE FOR SPRINKLER SYSTEM. COORDINATE WITH ELECTRICAL CONTRACTOR. INSTALL NEW 50mm OF MINERAL WOOL INSULATION OVER HEAT TRACE. INSTALLATION TO START 1000mm BELOW FLOOR LEVEL. INSTALLATION OF HEAT TRACE AND INSULATION TO CONTINUE INTO ATTIC LEVEL. REFER TO SHEET M2.2. EXISTING HEAT TRACE SYSTEM IS SHOWN IN FIGURE M2.1-1. INTERLOCK HEAT TRACE ALARM OUTPUT TO FIRE ALARM.

02) INSTALL EXISTING DRUM DRIP IN THE VERTICAL ORIENTATION AS SHOWN IN 'DETAIL M2.1-A ON THE MAIN FLOOR. INSTALL 1500mm ABOVE GROUND LEVEL.

03) REPLACE FITTINGS. SEE REFERENCED FIGURE

MEN'S HOUSE GENERAL CONSTRUCTION NOTES - MAIN FLOOR:

- PERMANENT LABELS ARE TO BE PROVIDED FOR ALL SPRINKLER CONTROL VALVES, LOW POINT DRAINS, INSPECTOR'S TEST SYSTEMS AND FIRE ALARM DEVICES.



SEAL

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3	TENDER READY RESUBMISSION	2022-06-29
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1	ISSUED FOR 99% REVIEW RESUBMISSION	2021-12-14
0	ISSUED FOR 99% REVIEW	2021-11-08
Revision	Description	Date
Client		Client

PARKS CANADA AGENCY

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220 4 AVE SE, SUITE 720
CALGARY, AB. T2G 4X3

Project title

LOWER FORT GARRY
NATIONAL HISTORIC SITE
ST. ANDREWS, MB.

REHABILITATION
FROM WATER DAMAGE
LOWER FORT GARRY

Designed by

LL

Drawn by

JHW

Approved by

LL

Project Manager

CHRISTINE LeCLERC

Drawing title

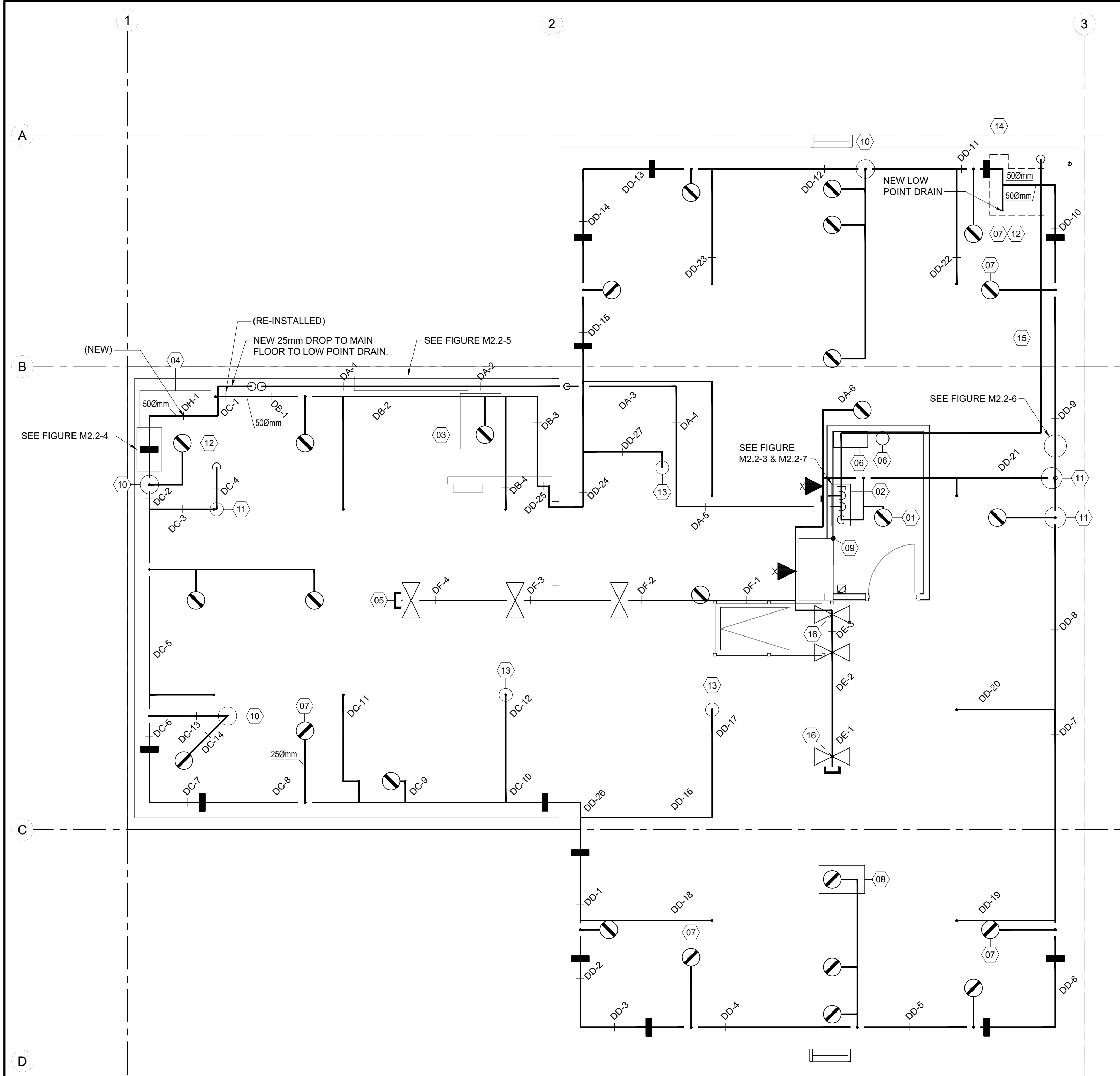
MEN'S HOUSE
FIRE PROTECTION PLAN
MAIN FLOOR

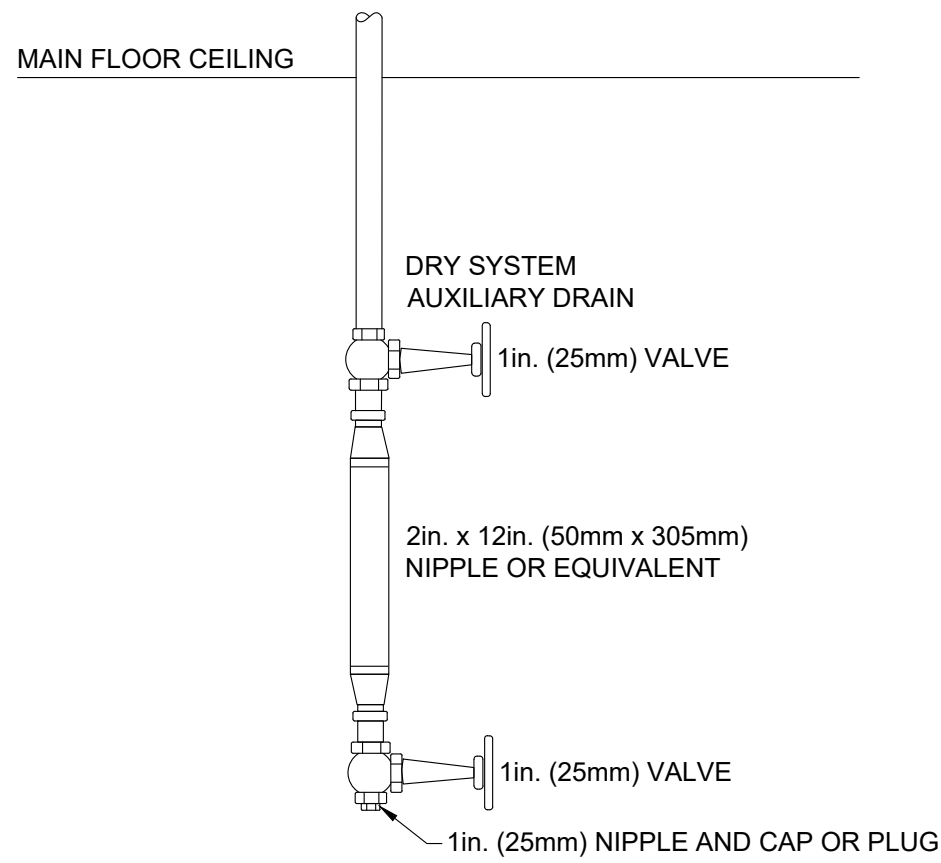
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Project No./No. du projet	Drawing No./No. du dessin	Revision No.
5P468-21-0054	M2.1 26 OF 42	R00





DETAIL M2.1-A: DRY SYSTEM AUXILIARY DRAIN



FIGURE M2.1-1



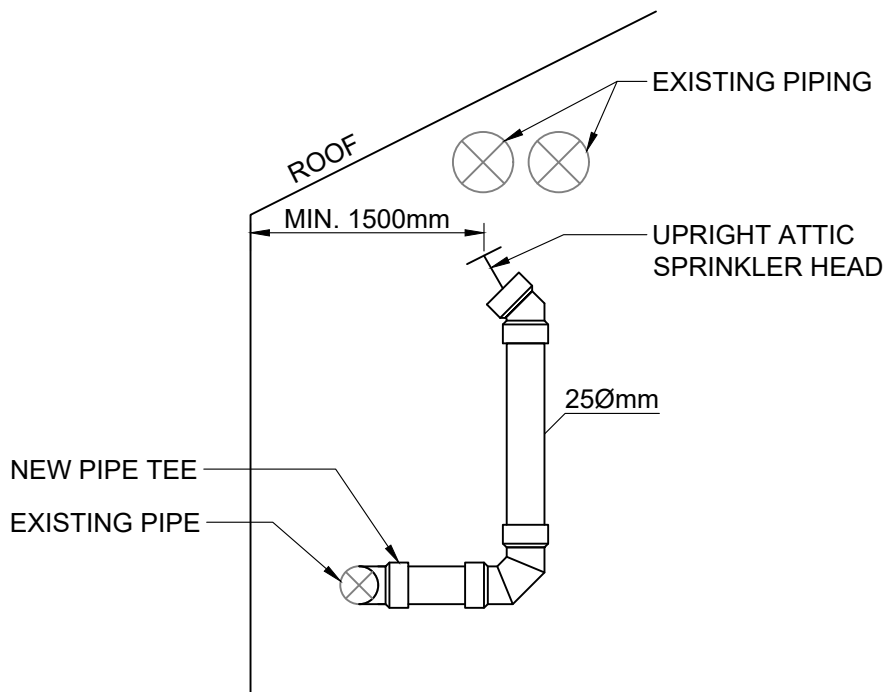
FIGURE M2.1-2



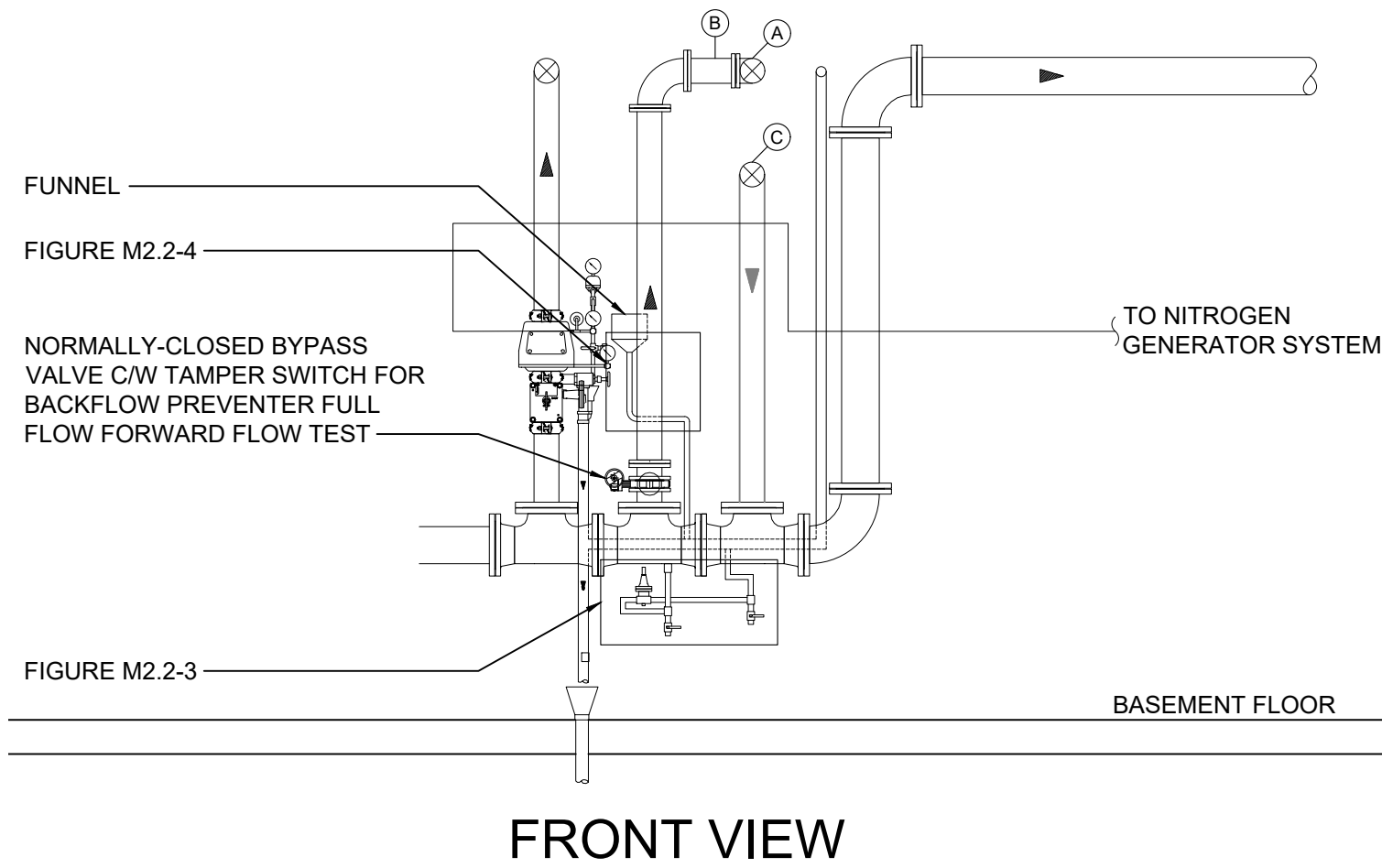
FIGURE M2.2-1



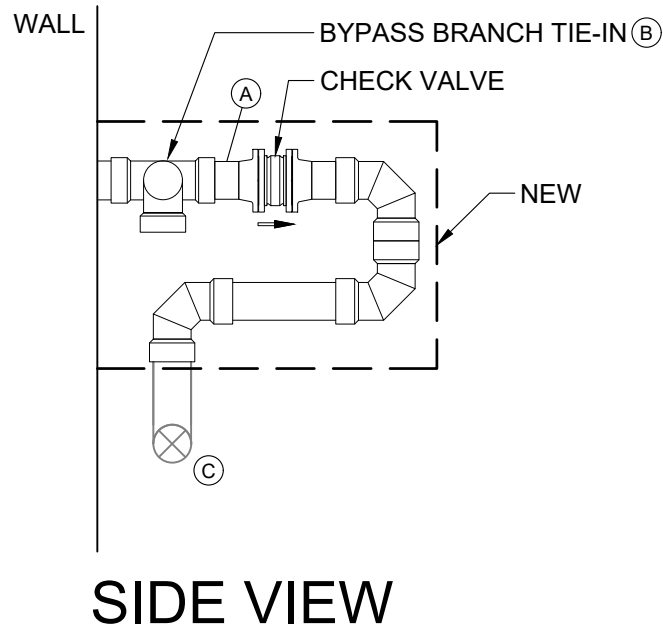
FIGURE M2.2-2



DETAIL M2.2-A: NEW SPRINKLER BRANCH IN MEN'S HOUSE ATTIC



DETAIL M2.2-B: SPRINKLER ROOM PIPING SCHEMATIC



SIDE VIEW

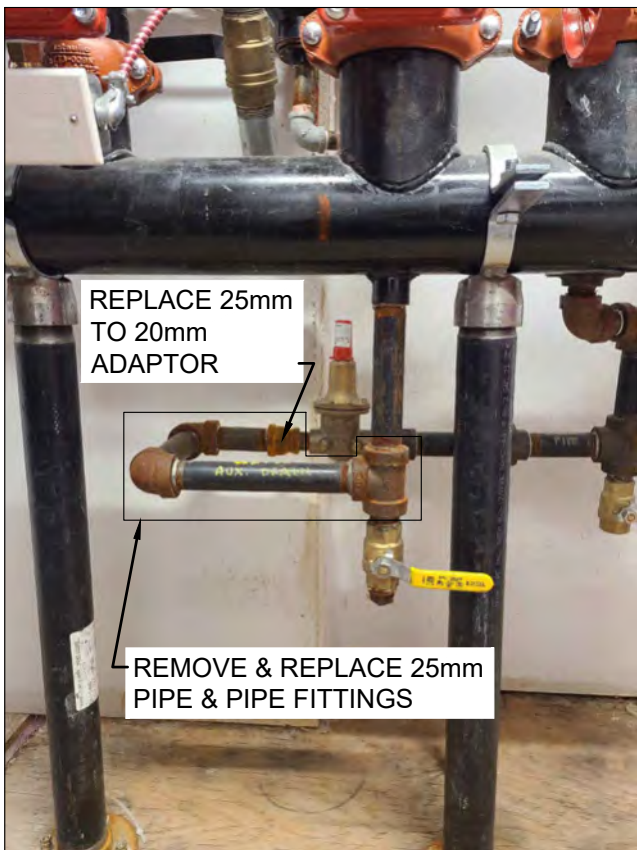


FIGURE M2.2-3

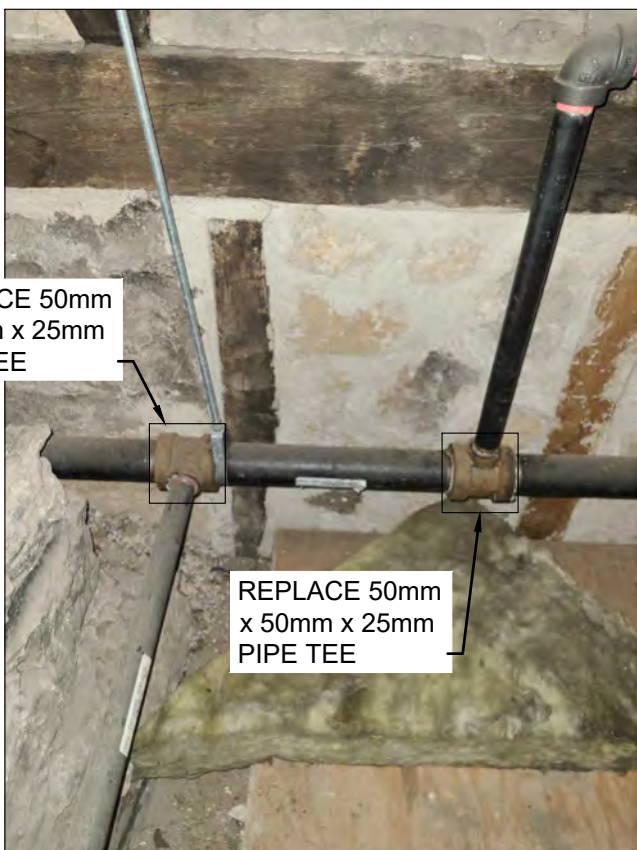


FIGURE M2.2-4

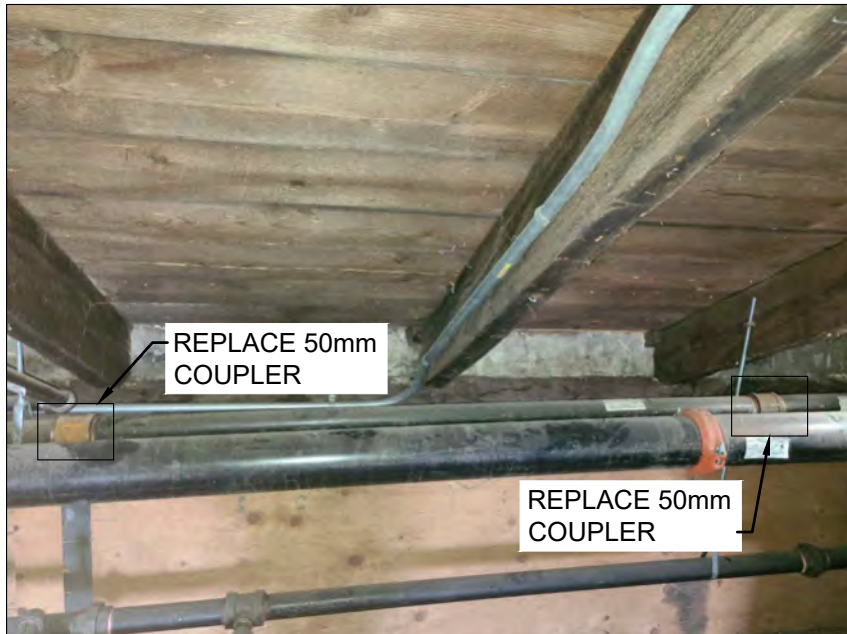


FIGURE M2.2-5



FIGURE M2.2-6



FIGURE M2.2-7

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Project title	Projet
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**LOWER FORT GARRY
NATIONAL HISTORIC SITE
ST. ANDREWS, MB.**

**REHABILITATION
FROM WATER DAMAGE
LOWER FORT GARRY**

Designed by	Conçu par
-------------	-----------

GMF

Drawn by	Dessiné par
----------	-------------

JHW

Approved by	Approuvé par
-------------	--------------

LL

Technical Project Manager	Administrateur de Projets TPSGC
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CHRISTINE LeCLERC

Drawing title	Titre du dessin
---------------	-----------------

**MEN'S HOUSE
PROTECTION PLAN
FIGURES**

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
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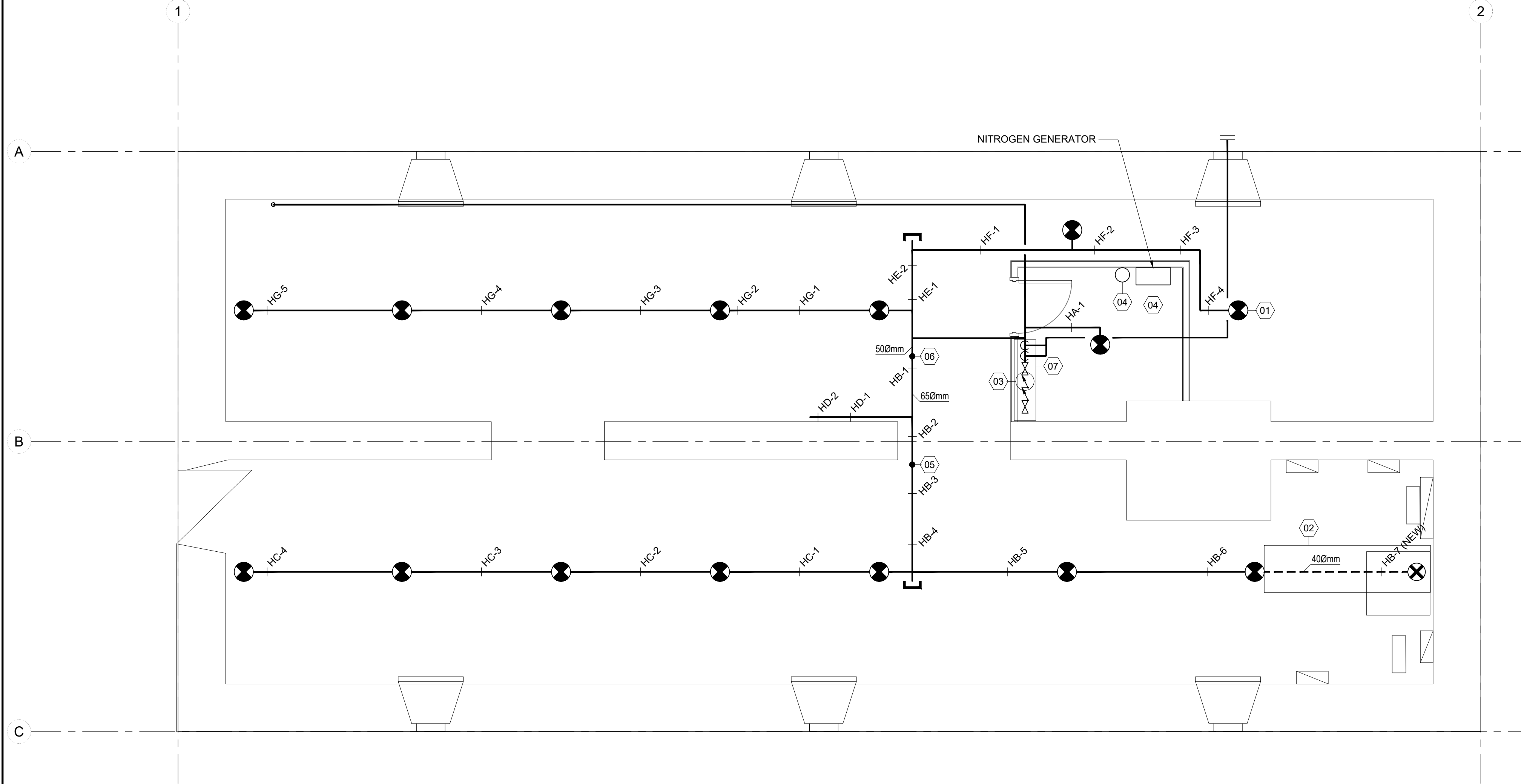
5P468-21-0054

M2-3
28 OF 42

R00

PWGSC - A1 - 841X594

M2.3.dwg



FUR LOFT- BASEMENT FLOOR

1:50

LEGEND	
ITEM	SYMBOL
EXISTING SPRINKLER HEAD	
EXISTING SPRINKLER LINE	
EXISTING SPRINKLER SUPPORT LOCATION	AA-#
NEW SPRINKLER HEAD	
NEW SPRINKLER LINE	

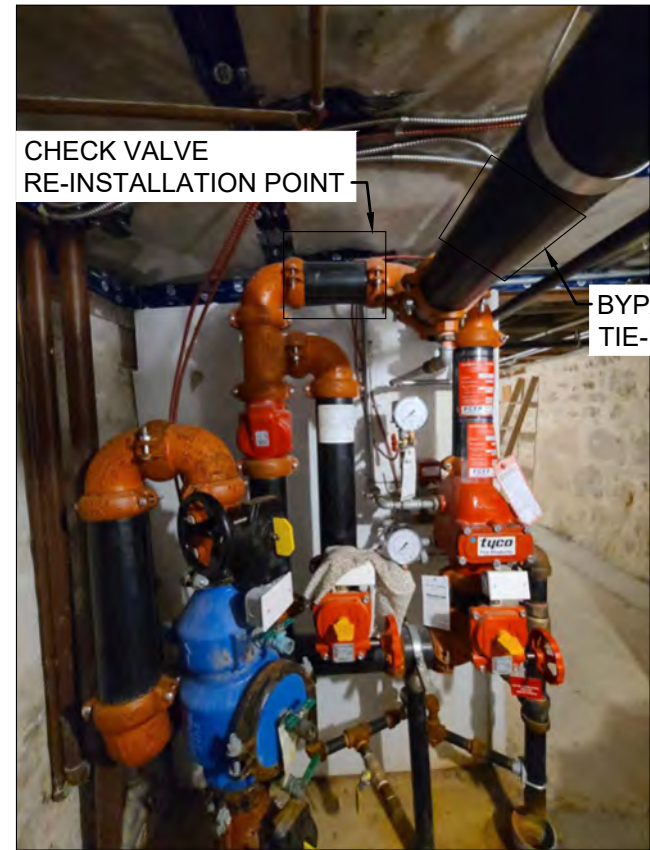


FIGURE M3.1-1



FIGURE M3.1-2

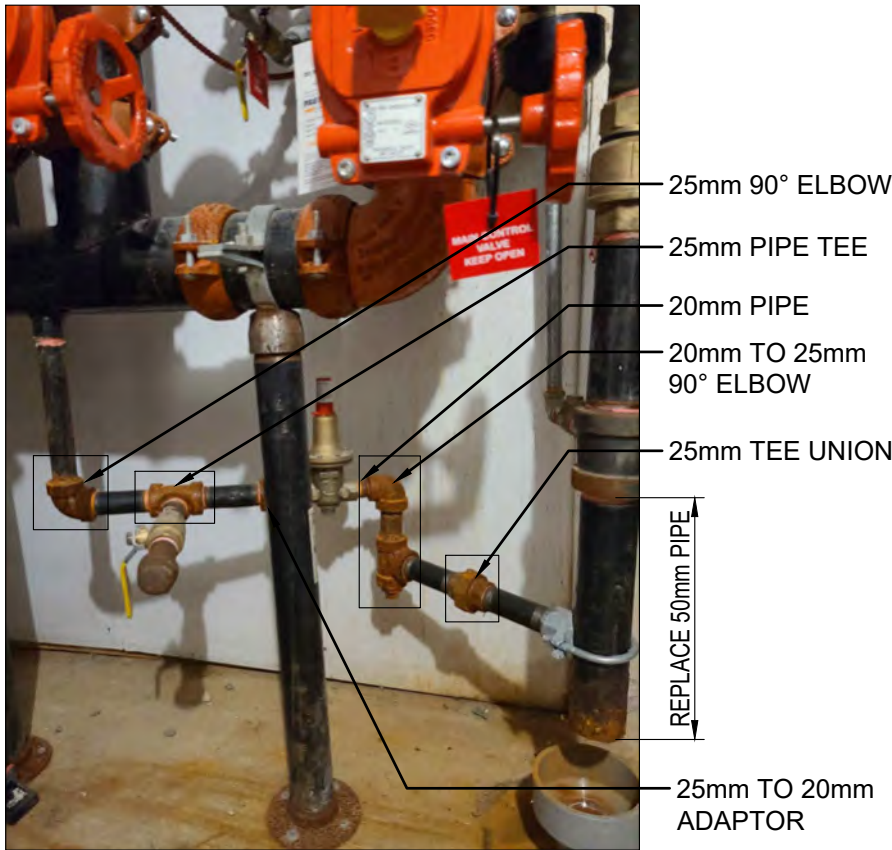
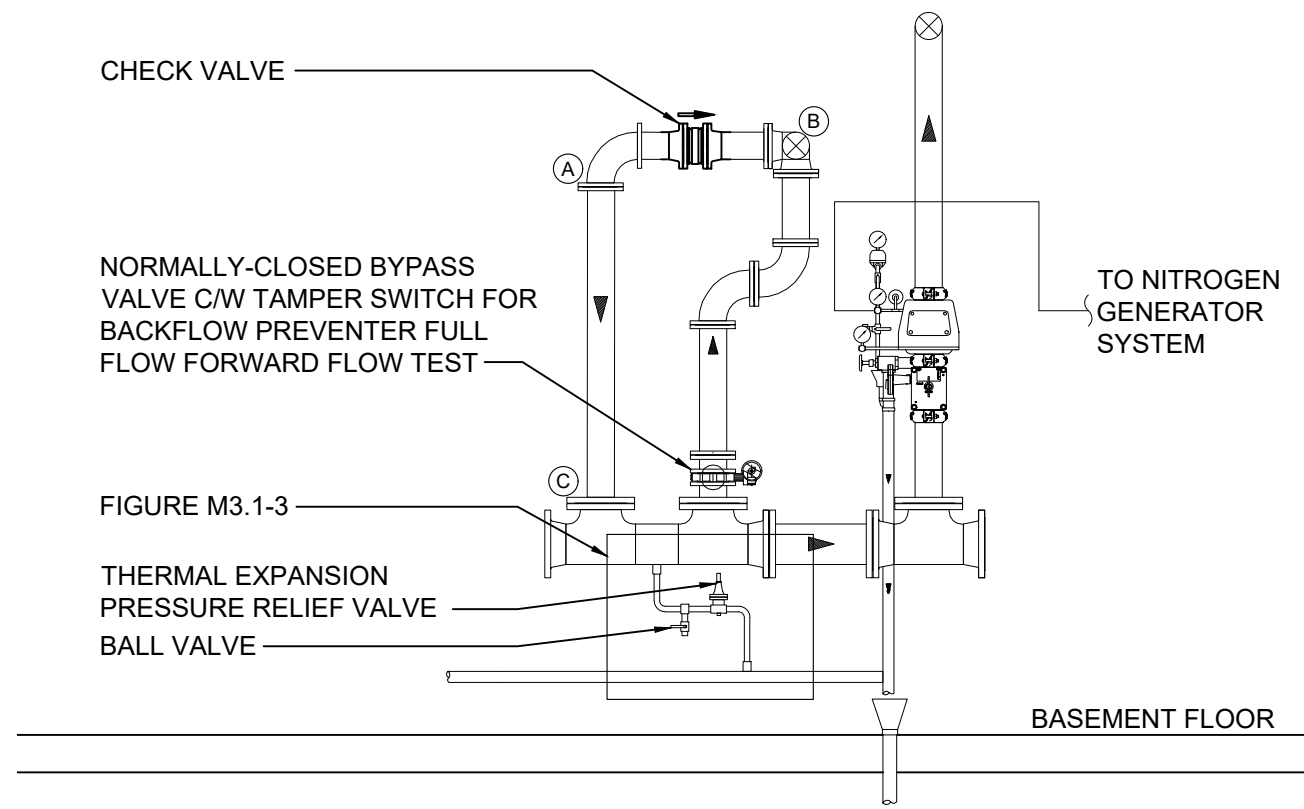
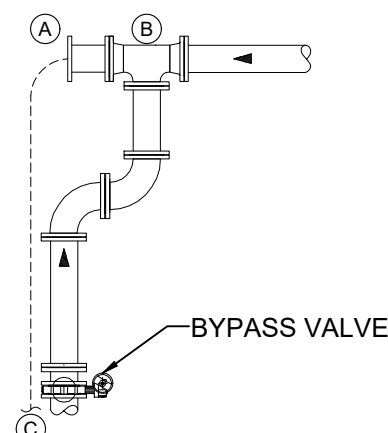


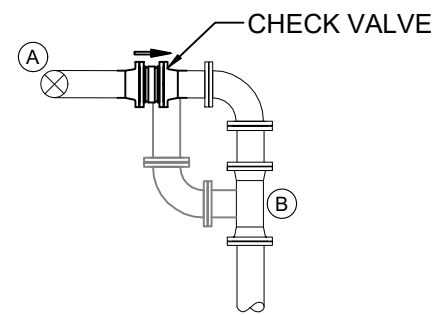
FIGURE M3.1-3



FRONT VIEW



SIDE VIEW



TOP VIEW

DETAIL M3.1-A: FUR LOFT SPRINKLER ROOM PIPING DETAIL

1:100

FUR LOFT CONSTRUCTION NOTES - BASEMENT:

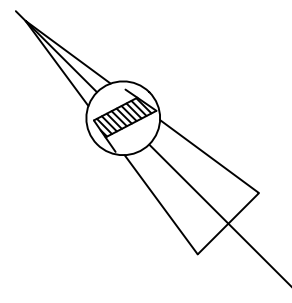
- 01 INSTALL NEW UPRIGHT TYCO FRB SERIES SPRINKLER HEAD THAT IS RATED FOR HIGH TEMPERATURE AT LOCATION INDICATED. SPRINKLER HEAD CONNECTION TO BE 25mm.
- 02 EXTEND SPRINKLER BRANCH AS INDICATED. INSTALL PIPE HANGER. INSTALL UPRIGHT SPRINKLER HEAD AT END OF BRANCH AS INDICATED. SPRINKLER HEAD TO BE RATED FOR AN ORDINARY LOCATION. PIPE MUST BE SLOPE BACKWARDS AT 0.60%.
- 03 INSTALL PIPING AND RE-INSTALL CHECK VALVE AS PER FIGURE M3.1-1 AND TYPICAL NITROGEN GENERATOR SCHEMATIC ON SHEET M4. CHECK VALVE MUST BE INSTALLED HORIZONTALLY AS PER FIGURE M3.1-1.
- 04 INSTALL NEW NITROGEN GENERATOR AND COMPRESSED AIR TANKS IN LOCATION INDICATED. REFER TO SCHEMATIC ON SHEET M4.
- 05 ADJUST MECHANICAL GROOVED ELBOWS TO BRING BRANCH DOWN BY 30mm. REFER TO FIGURE M3.1-2 FOR EXISTING CONDITIONS.
- 06 INSTALL 2 NEW MECHANICAL GROOVED 90° ELBOWS WITH A CENTER TO END DIMENSION OF 76mm. CONNECT TO EXISTING PIPING.
- 07 REMOVE AND REPLACE PIPE AND FITTINGS INDICATED IN FIGURE M3.1-3.

FUR LOFT GENERAL CONSTRUCTION NOTES - BASEMENT:

- PROVIDE SPARE SPRINKLER HEADS FOR THE SPARE SPRINKLER CABINET LOCATED IN THE SPRINKLER ROOM. SPRINKLER HEADS TO BE INCLUDED ARE THE FOLLOWING. ALL SPRINKLERS TO BE OF DRY TYPE.
 - 1.1 TWO TYCO SERIES DS-1 TY3235 DRY PENDANT SPRINKLERS OF ORDINARY TEMPERATURE
 - 1.2 TWO TYCO MODEL BB2 TY3190 BACK-TO-BACK ATTIC SPRINKLERS OF ORDINARY TEMPERATURE. SPRINKLER TYPE TO BE SPECIFIC APPLICATION ATTIC SPRINKLER TYPE.
 - 1.3 TWO TYCO FRB SERIES UPRIGHT SPRINKLERS OF HIGH TEMPERATURE.
 - 1.4 TWO TYCO AP TY3190 UPRIGHT ATTIC SPRINKLERS OF INTERMEDIATE TEMPERATURE. SPRINKLER TYPE TO BE SPECIFIC APPLICATION ATTIC SPRINKLER TYPE.
 - 1.5 TWO TYCO SD2TY3184 SINGLE DIRECTION SPRINKLERS. SPRINKLER TYPE TO BE SPECIFIC APPLICATION ATTIC SPRINKLER TYPE.
 - 1.6 TWO TYCO SERIES TY-FRB TY3331 HORIZONTAL SIDEWALL SPRINKLER.
 - 1.7 TWO TYCO SERIES TY-FRB TY3131 UPRIGHT SPRINKLER
- ADJUST HANGER ELEVATION AS PER HANGER ADJUSTMENT TABLES.
- INSTALL TEMPERATURE SWITCH IN SPRINKLER ROOM AND INTERCONNECT TO FIRE ALARM. SET TEMPERATURE SWITCH TO 4.5°C.
- PERMANENT LABELS ARE TO BE PROVIDED FOR ALL SPRINKLER CONTROL VALVES, LOW POINT DRAINS, INSPECTOR'S TEST SYSTEMS AND FIRE ALARM DEVICES.

Furloft Basement
Hanger Adjustment
Tables

Hanger Tag	Elevation Increase (mm)
HA-1	0
HB-1	0
HB-2	2
HB-3	-30
HB-4	-30
HB-5	-23
HB-6	-13
HC-1	-30
HC-2	-18
HC-3	-10
HC-4	0
HD-1	5
HD-2	11
HE-1	-38
HE-2	-35
HF-1	-33
HF-2	-26
HF-3	-24
HF-4	-21
HG-1	-33
HG-2	-26
HG-3	-30
HG-4	-26
HG-5	-18



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Client		Client

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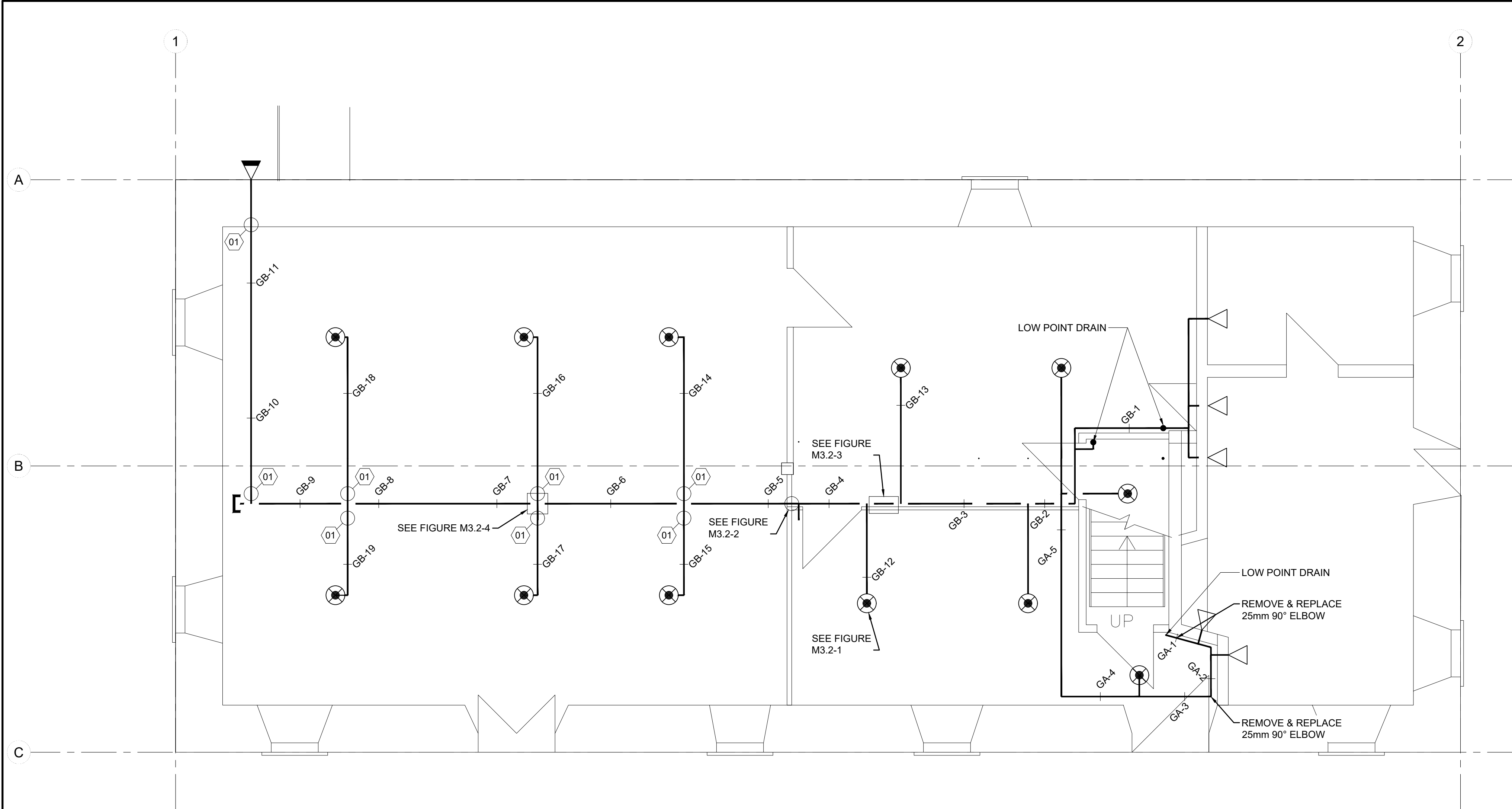
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CALGARY, AB. T2G 4X3

Project Title
**LOWER FORT GARRY
NATIONAL HISTORIC SITE
ST. ANDREWS, MB.**
**REHABILITATION
FROM WATER DAMAGE
LOWER FORT GARRY**

Designed by
LL
Drawn by
JHW
Approved by
LL
Project Manager
CHRISTINE LeCLERC
Administrateur de Projets IPSGC

Drawing title
**FUR LOFT
FIRE PROTECTION PLAN
BASEMENT FLOOR**

Project no./No. du projet
5P468-21-0054
Drawing no./No. de dessin
M3.1
Revision no./No. de révision
R00



FUR LOFT- MAIN FLOOR

1:50

LEGEND	
ITEM	SYMBOL
EXISTING SPRINKLER HEAD	
EXISTING WALL MOUNTED SPRINKLER HEAD	
EXISTING DRY SW SPRINKLER	
EXISTING SPRINKLER LINE	
EXISTING SPRINKLER SUPPORT LOCATION	AA-#



FIGURE M3.2-1



FIGURE M3.2-2



FIGURE M3.2-3



FIGURE M3.2-4

- FUR LOFT CONSTRUCTION NOTES - MAIN FLOOR:
- 01

ADJUST PIPE LENGTH AS PER DETAIL M1.3-C. FOR PIPE LENGTHS SHORTER THAN THE HANGER ADJUSTMENT LENGTH, DECREASE THE PIPE LENGTH AS MUCH AS POSSIBLE AND INCREASE THE HANGER ELEVATION BY THE REMAINDER. THIS INCREASE IS ADDITIONAL TO THE HANGER ADJUSTMENT TABLE. HANGERS, GB14, 15, 16, 17, 18, 19, 10 AND GB11 WILL BE AFFECTED BY THIS.
- FUR LOFT GENERAL CONSTRUCTION NOTES - MAIN FLOOR:
- ADJUST HANGER ELEVATION AS PER HANGER ADJUSTMENT TABLES.
- PERMANENT LABELS ARE TO BE PROVIDED FOR ALL SPRINKLER CONTROL VALVES, LOW POINT DRAINS, INSPECTOR'S TEST SYSTEMS AND FIRE ALARM DEVICES.

Furloft Main Floor Hanger Adjustment Tables	
Hanger Tag	Elevation Increase [mm]
GA-1	-10
GA-2	0
GA-3	0
GA-4	20
GA-5	50
GB-1	3
GB-2	10
GB-3	15
GB-4	5
GB-5	12
GB-6	17
GB-7	23
GB-8	19
GB-9	22
GB-10	0
GB-11	1
GB-12	3
GB-13	3
GB-14	0
GB-15	17
GB-16	0
GB-17	8
GB-18	0
GB-19	8

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0	ISSUED FOR 90% REVIEW	2021-11-08
Revision	Description	Date
Client		Client

PARKS CANADA AGENCY

220 4 AVE SE, SUITE 720
CALGARY, AB. T2G 4X3

Project Title

Projet

**LOWER FORT GARRY
NATIONAL HISTORIC SITE
ST. ANDREWS, MB.**

**REHABILITATION
FROM WATER DAMAGE
LOWER FORT GARRY**

Designed by

Conçu par

LL

Drawn by

Dessiné par

JHW

Approved by

Approuvé par

LL

Project Engineer / Manager

Administrateur de Projets / IPSGC

CHRISTINE LeCLERC

Drawing title

Titre du dessin

**FUR LOFT
FIRE PROTECTION PLAN
MAIN FLOOR**

Project no./No. du projet

Project no./No. de dessin

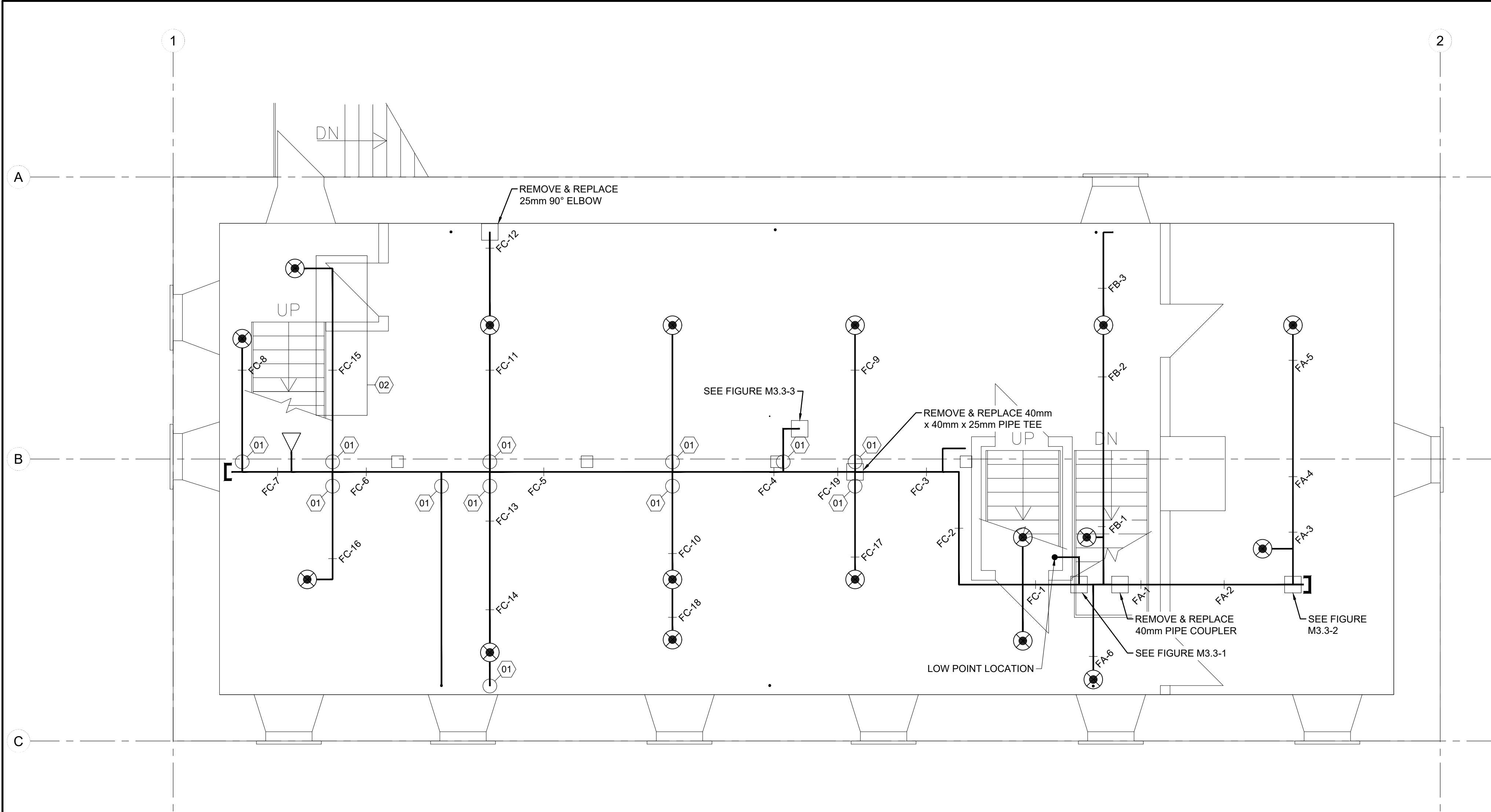
Revised no.

5P468-21-0054

M3.2

R00

30 OF 42



FUR LOFT- SECOND FLOOR

1:50

LEGEND	
ITEM	SYMBOL
EXISTING SPRINKLER HEAD	
EXISTING SPRINKLER LINE	
EXISTING SPRINKLER SUPPORT LOCATION	AA-#

FUR LOFT CONSTRUCTION NOTES - SECOND FLOOR:

01

ADJUST PIPE LENGTH AS PER DETAIL M1.3-C.

02

SEE FIGURE M3.3-4. THE HANGER SHOWN WILL HAVE TO BE RAISED ACCORDING TO FUR LOFT SECOND FLOOR HANGER ADJUSTMENT TABLES. THE SPRINKLER WILL HAVE TO BE RECONFIGURED TO ALLOW FOR THAT HEIGHT INCREASE. CORE HOLES IN WALL AS REQUIRED TO ELEVATE PIPE. ANY WORK TO CORE WALLS MUST BE APPROVED BY PARKS CANADA

FUR LOFT GENERAL CONSTRUCTION NOTES - SECOND FLOOR:

-

ADJUST HANGER ELEVATION AS PER HANGER ADJUSTMENT TABLES.

-

PERMANENT LABELS ARE TO BE PROVIDED FOR ALL SPRINKLER CONTROL VALVES, LOW POINT DRAINS, INSPECTOR'S TEST SYSTEMS AND FIRE ALARM DEVICES.

Furloft 2nd Floor Hanger Adjustment Tables	
Hanger Tag	Elevation Increase [mm]
FA-1	2
FA-2	3
FA-3	0
FA-4	7
FA-5	40
FA-6	5
FB-1	0
FB-2	20
FB-3	22
FC-1	6
FC-2	14
FC-3	4
FC-4	10
FC-5	25
FC-6	10
FC-7	10
FC-8	10
FC-9	15
FC-10	5
FC-11	10
FC-12	8
FC-13	20
FC-14	35
FC-15	10
FC-16	20
FC-17	0
FC-18	12
FC-19	10

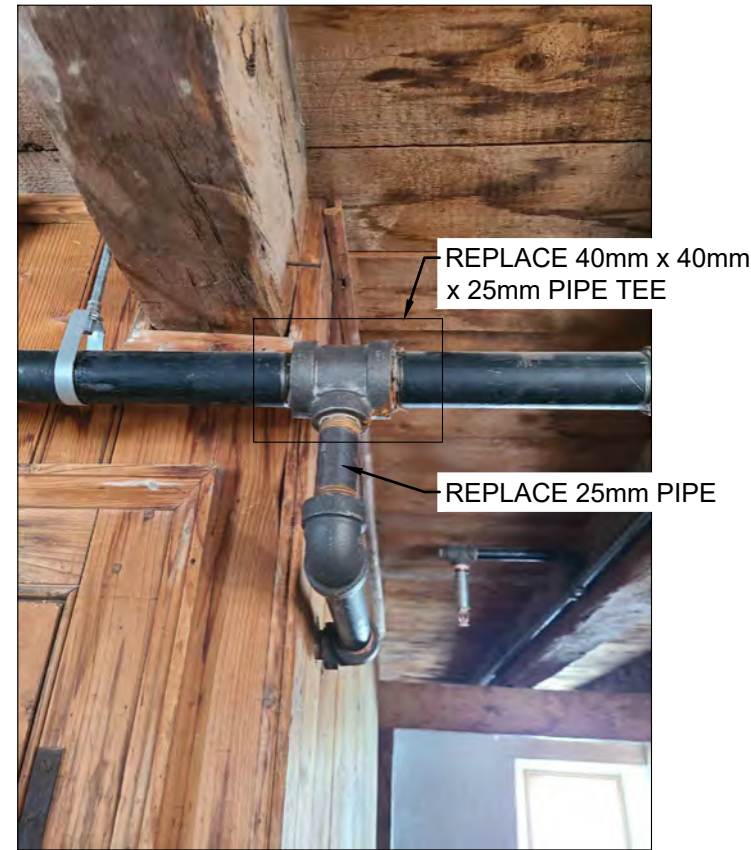


FIGURE M3.3-1



FIGURE M3.3-2



FIGURE M3.3-3



FIGURE M3.3-4

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Revision	Description	Date
Client		Client

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220 4 AVE SE, SUITE 720

CALGARY, AB. T2G 4X3

Project Title

Projet

LOWER FORT GARRY

NATIONAL HISTORIC SITE

ST. ANDREWS, MB.

REHABILITATION

FROM WATER DAMAGE

LOWER FORT GARRY

Designed by

Conçu par

LL

Drawn by

Dessiné par

JHW

Approved by

Approuvé par

LL

Project Manager

Administrateur de Projets

CHRISTINE LeCLERC

TPSGC

Drawing title

Titre du dessin

FUR LOFT

FIRE PROTECTION PLAN

SECOND FLOOR

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Project No./No. du projet

Project No./No. du dessin

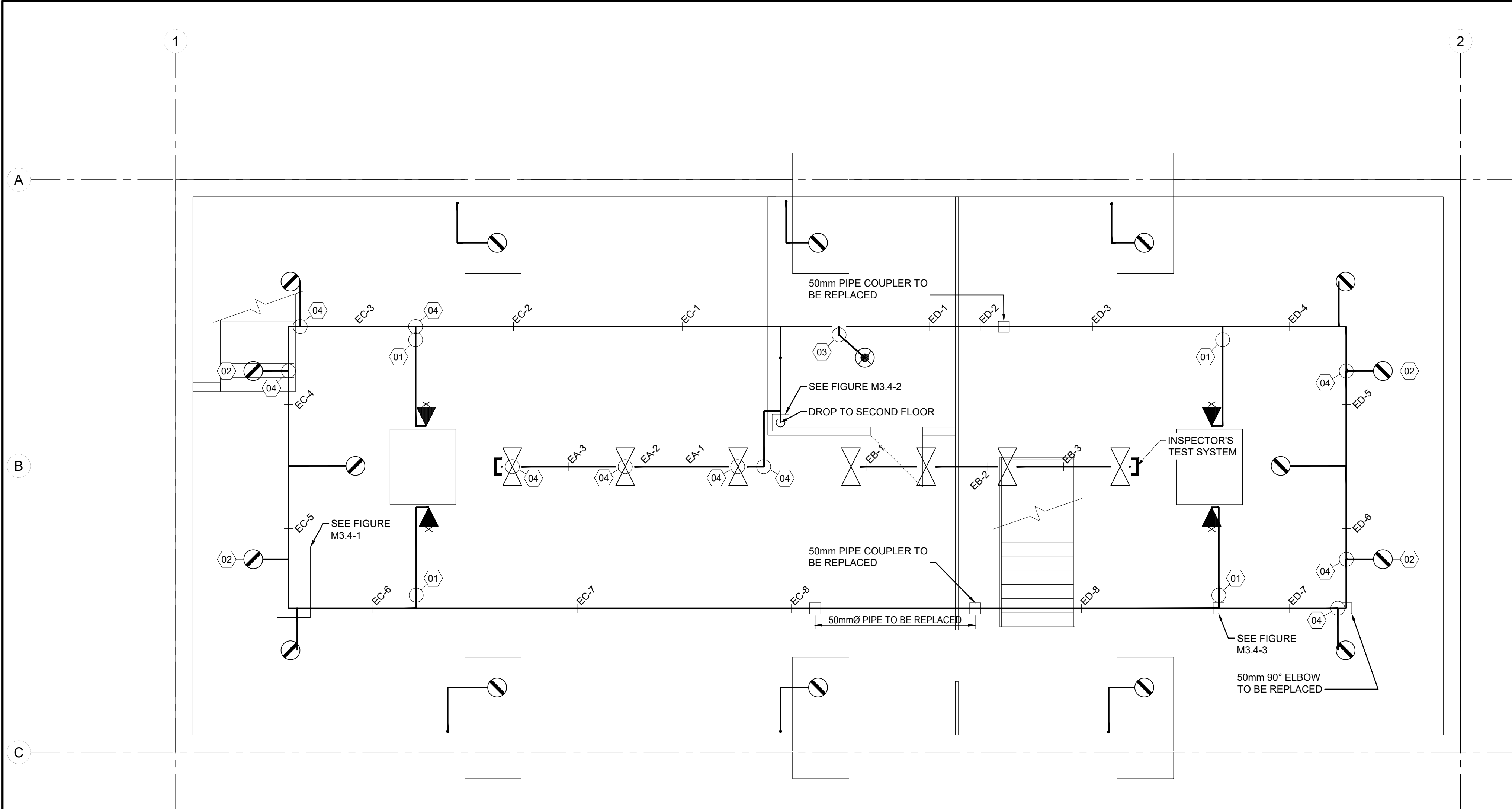
Revision No.

5P468-21-0054

M3.3

R00

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FUR LOFT- ATTIC LEVEL

1:50

LEGEND	
ITEM	SYMBOL
EXISTING SPRINKLER HEAD	
EXISTING SPRINKLER HEAD	
EXISTING SIDE SPRINKLER HEAD	
EXISTING SPRINKLER HEAD	
EXISTING SPRINKLER LINE	
EXISTING SPRINKLER SUPPORT LOCATION	AA-#

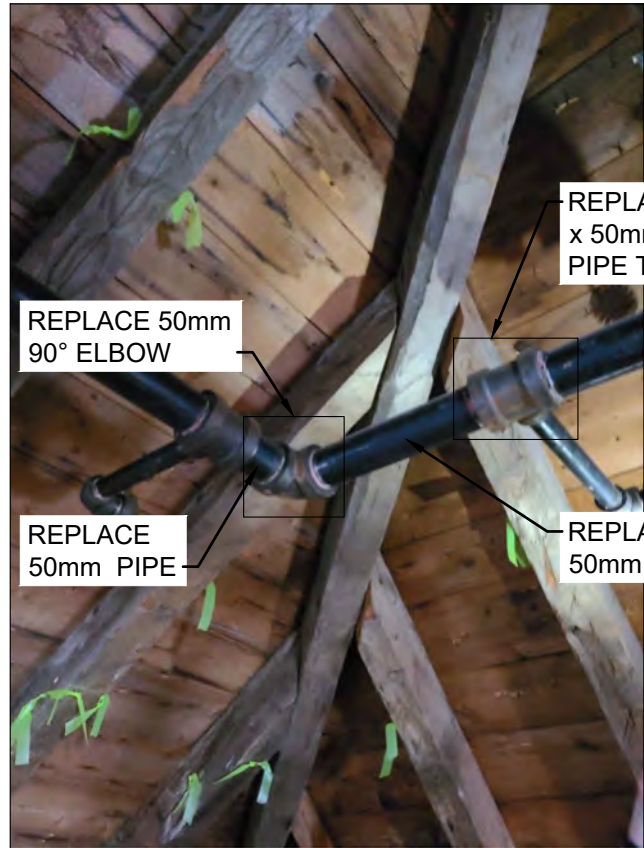


FIGURE M3.4-1



FIGURE M3.4-2



FIGURE M3.4-3

FUR LOFT CONSTRUCTION NOTES - ATTIC:

- 01 ADJUST PIPE LENGTHS AS PER DETAIL M1.3-C.
- 02 INSTALL PIPING AND RECONFIGURE SPRINKLER BRANCHES TO HAVE THE SPRINKLER HEADS A DISTANCE OF 1500mm AWAY FROM THE ATTIC WALLS.
- 03 REMOVE AND REPLACE A 90° 25mm ELBOW. SEE FIGURE M3.4-1.
- 04 REMOVE & REPLACE 50mm x 50mm x 25mm PIPE TEE

FUR LOFT GENERAL CONSTRUCTION NOTES - ATTIC:

- ADJUST HANGER ELEVATION AS PER HANGER ADJUSTMENT TABLES.
- PERMANENT LABELS ARE TO BE PROVIDED FOR ALL SPRINKLER CONTROL VALVES, LOW POINT DRAINS, INSPECTOR'S TEST SYSTEMS AND FIRE ALARM DEVICES.

Furloft Attic Hanger Adjustment Tables	
Hanger Tag	Elevation Increase [mm]
EA-1	0
EA-2	7
EA-3	15
EB-1	10
EB-2	15
EB-3	15
EC-1	3
EC-2	0
EC-3	15
EC-4	30
EC-5	40
EC-6	70
EC-7	100
EC-8	130
ED-1	0
ED-2	7
ED-3	12
ED-4	10
ED-5	22
ED-6	47
ED-7	78
ED-8	115

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Administrateur de Projets

CHRISTINE LeCLERC

Project Title

Titre du dessin

FUR LOFT

FIRE PROTECTION PLAN

ATTIC LEVEL

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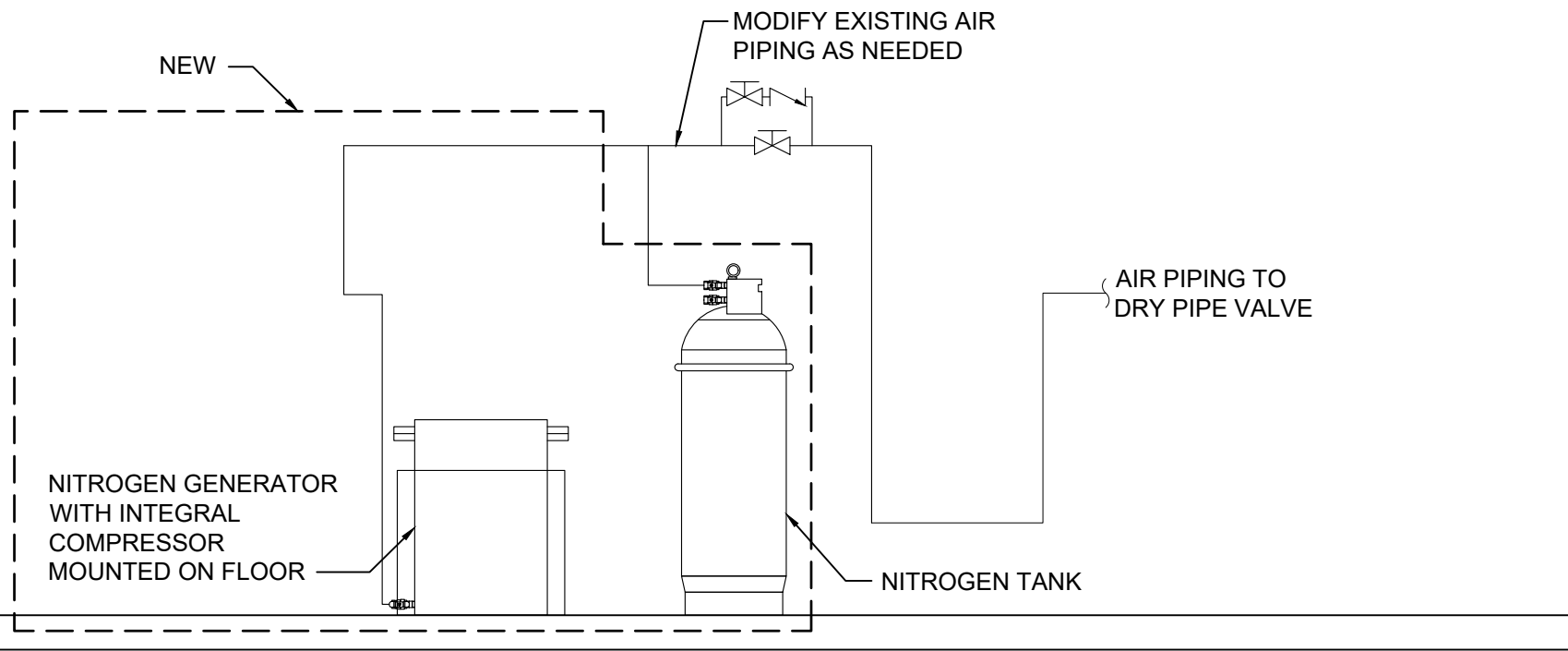
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TYPICAL NITROGEN GENERATOR SYSTEM SCHEMATIC


1:100



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JHW		
Approved by		Approuvé par
LL		
Project Engineer Manager		Administrateur de Projets TPSGC
CHRISTINE LeCLERC		
Drawing title		Titre du dessin
PROPOSED NITROGEN GENERATOR SYSTEM SCHEMATIC		
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