

CSC WILLIAM HEAD INSTITUTION ROOFING PROJECT

BUILDING No.	BUILDING NAME	PROJECT No.
102	LIBRARY	R.079715.001
104	PRINCIPAL ENTRANCE	R.079716.001
105	VOCATIONAL TRAINING	R.079717.001
108	INSTITUTIONAL SERVICES BUILDING	R.079718.001

Prime consultant/premier consultant



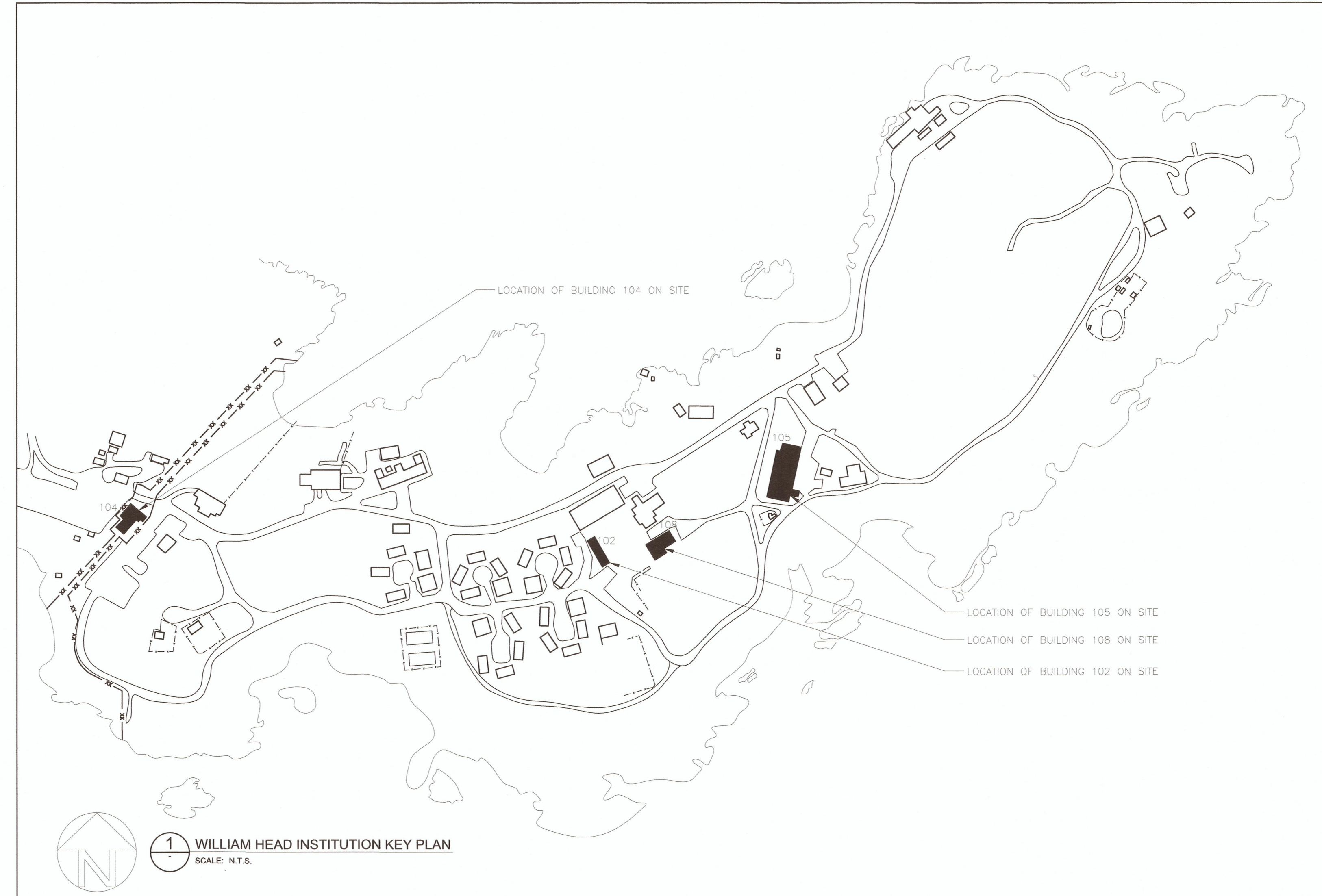
MH PROJECT NUMBER: 5160055.00



Drawing List:

000-0	PROJECT COVER PAGE
BUILDING 102 - LIBRARY	
102-0	COVER PAGE, GENERAL NOTES, LEGENDS AND ASSEMBLIES
102-1	DEMOLITION PLAN
102-2	ROOF PLAN
102-3	ROOF DETAILS
102-M1	ROOF PLAN MECHANICAL DRAWINGS
BUILDING 104 - PRINCIPAL ENTRANCE	
104-0	COVER PAGE, GENERAL NOTES, LEGENDS AND ASSEMBLIES
104-1	DEMOLITION PLAN
104-2	ROOF PLAN
104-3	GUARDRAIL AND ACCESS LADDER ELEVATIONS
104-4	ROOF DETAILS
104-M1	ROOF PLAN MECHANICAL DRAWINGS
BUILDING 105 - VOCATIONAL TRAINING SHOPS	
105-0	COVER PAGE, GENERAL NOTES, LEGENDS AND ASSEMBLIES
105-1	DEMOLITION PLAN
105-2	ROOF PLAN
105-3	ROOF DETAILS
105-M1	ROOF PLAN MECHANICAL DRAWINGS
BUILDING 108 - INSTITUTIONAL SERVICES BUILDING	
108-0	COVER PAGE, GENERAL NOTES, LEGENDS AND ASSEMBLIES
108-1	DEMOLITION PLAN
108-2	ROOF PLAN
108-3	ROOF DETAILS
108-M1	ROOF PLAN MECHANICAL DRAWINGS

Key Plan:



0	ISSUED FOR TENDER	2016/05/25
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Revision/Revision	Description/Description	Date/Date
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Client/client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**METCHOSIN, BC
6000 WILLIAM HEAD ROAD
WILLIAM HEAD INSTITUTION
ROOFING PROJECT**

Consultant Signature Box Only

Designed by/Concept par
Jay Jirka

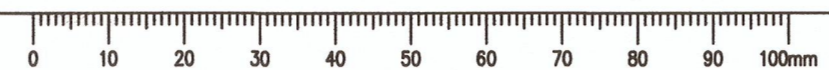
Drawn by/Dessine par
Byron McElgunn

PWGSC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

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

Drawing title/Titre du dessin
PROJECT COVER PAGE

Project No./No. du projet R.079715.001 R.079716.001 R.079717.001 R.079718.001	Sheet/Feuille 000-0 OF	Revision no./ La Révision no. 7
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WILLIAM HEAD INSTITUTION ROOFING PROJECT

PROJECT NUMBER: R.079715.001

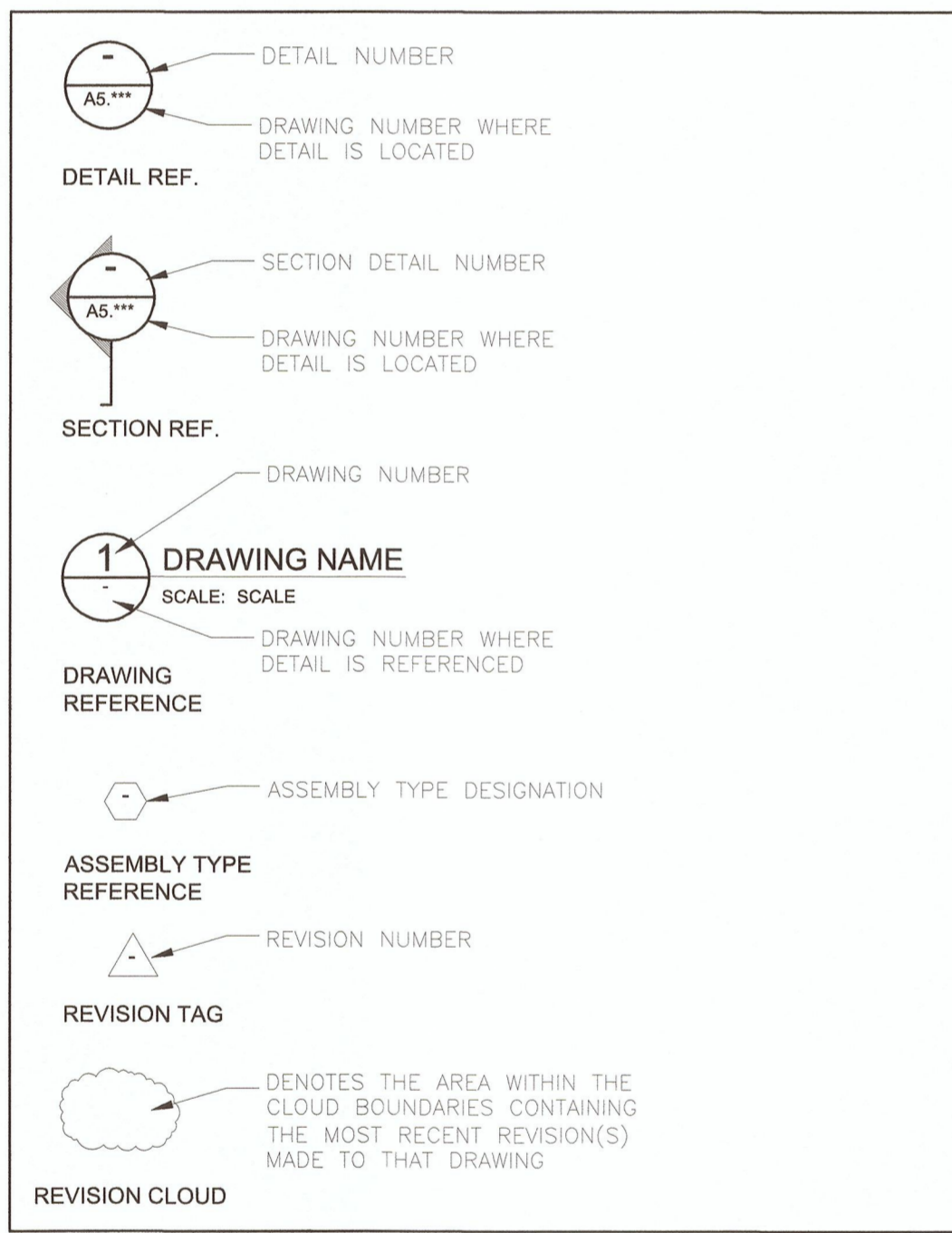
BUILDING 102 - LIBRARY



Drawing List:

102-0	COVER PAGE, GENERAL NOTES, LEGENDS AND ASSEMBLIES
102-1	DEMOLITION PLAN
102-2	ROOF PLAN
102-3	BUILDING ENVELOPE ROOF DETAILS
102-M1	ROOF PLAN MECHANICAL DRAWING

Symbols Legend:



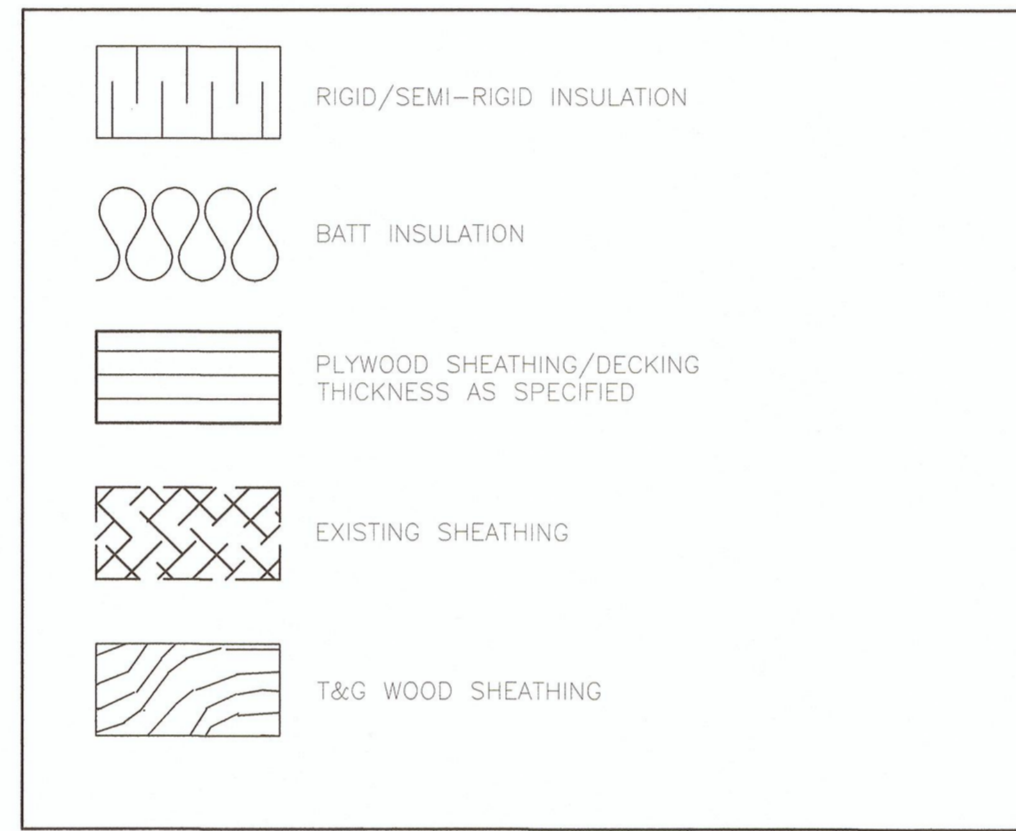
Abbreviations List:

A/M	AIR/MOISTURE BARRIER
C/W	COMPLETE WITH DRAWING
DWS.	EXISTING
EXIST.	EXISTING
GWB	GYPSON WALL BOARD
MIN.	MINIMUM
N.I.C.	NOT IN CONTRACT
O.C.	ON CENTRE
PT	PRESSURE TREATED
REV.	REVERSED
RE&R	REMOVE & REINSTALL
R.O.	ROUGH OPENING
RWL	RAINWATER LEADER
SAM	SELF ADHESIVE MEMBRANE
S.M.	SHEATHING MEMBRANE
SIM.	SIMILAR
S.O.G.	SLAB-ON-GRADE
T&G	TONGUE & GROOVE
T.B.C.	TO BE CONFIRMED
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
ADD.	ADDENDUM

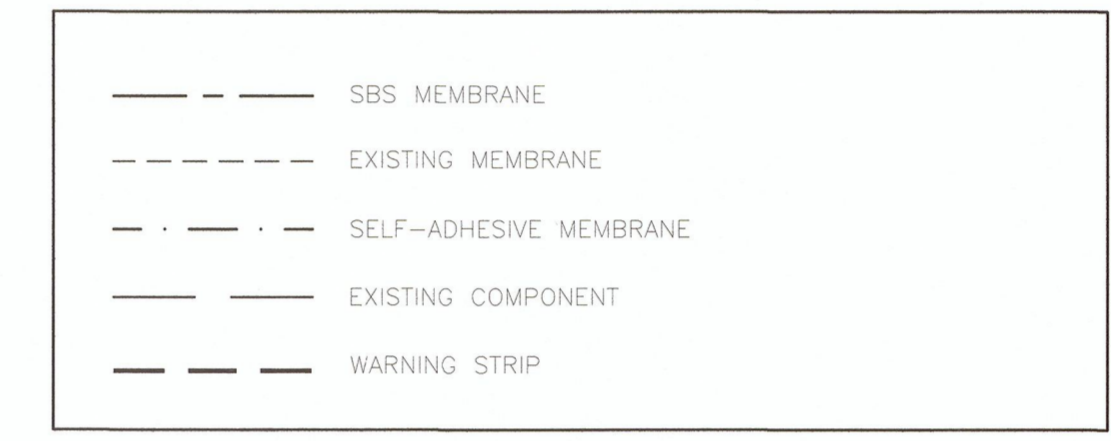
General Notes:

- 0.00 APPLICABLE CODES:
NATIONAL BUILDING CODE 2010
NATIONAL ENERGY CODE CANADA FOR BUILDINGS 2011
- 0.01 DRAWINGS ARE TO BE READ IN CONJUNCTION WITH WRITTEN SCOPE OF WORK.
- 0.02 DO NOT SCALE DRAWINGS. CONTRACTOR IS TO VERIFY DIMENSIONS ON SITE.
- 0.03 DRAINS ARE SHOWN AT APPROXIMATE LOCATIONS. CONTRACTOR TO CONFIRM EXACT LOCATIONS ON-SITE.
- 0.04 FORM FLASHING TO MAINTAIN MINIMUM 6% SLOPE, UNLESS OTHERWISE NOTED.
- 0.05 ALL TERMINATIONS IN METAL FLASHING TO HAVE FOLDED END DAMS OR WATERTIGHT SADDLES. FLASHING DOWNTURN LEG TO OVER CLADDING MINIMUM 50mm UNLESS OTHERWISE NOTED. ALL JOINTS TO BE S-LOCK OR STANDING SEAM. ALL FLASHING EDGES TO BE HEMMED.
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- 0.07 CONTRACTOR TO CONFIRM EXACT NUMBER, SIZE AND LOCATION OF ALL PENETRATIONS AND ANY OTHER EQUIPMENT ON THE ROOF.
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- 0.09 IF ANY DISCREPANCIES IN THE DOCUMENTS ARE FOUND, REQUEST THE CONSULTANT TO CLARIFY THE DISCREPANCIES PRIOR TO COMMENCING ANY RELATED WORK.
- 0.10 NOTIFY THE CONSULTANT IMMEDIATELY AND REQUEST A REVIEW IF ANY DAMAGE OF EXISTING AREAS OUTSIDE THE CONTRACT IS DISCOVERED. DO NOT COMMENCE ANY RELATED OR NEARBY WORK WITHOUT CONSULTANTS APPROVAL.
- 0.11 PROTECT NEW ROOFING MEMBRANE FROM TRAFFIC AND WORK.

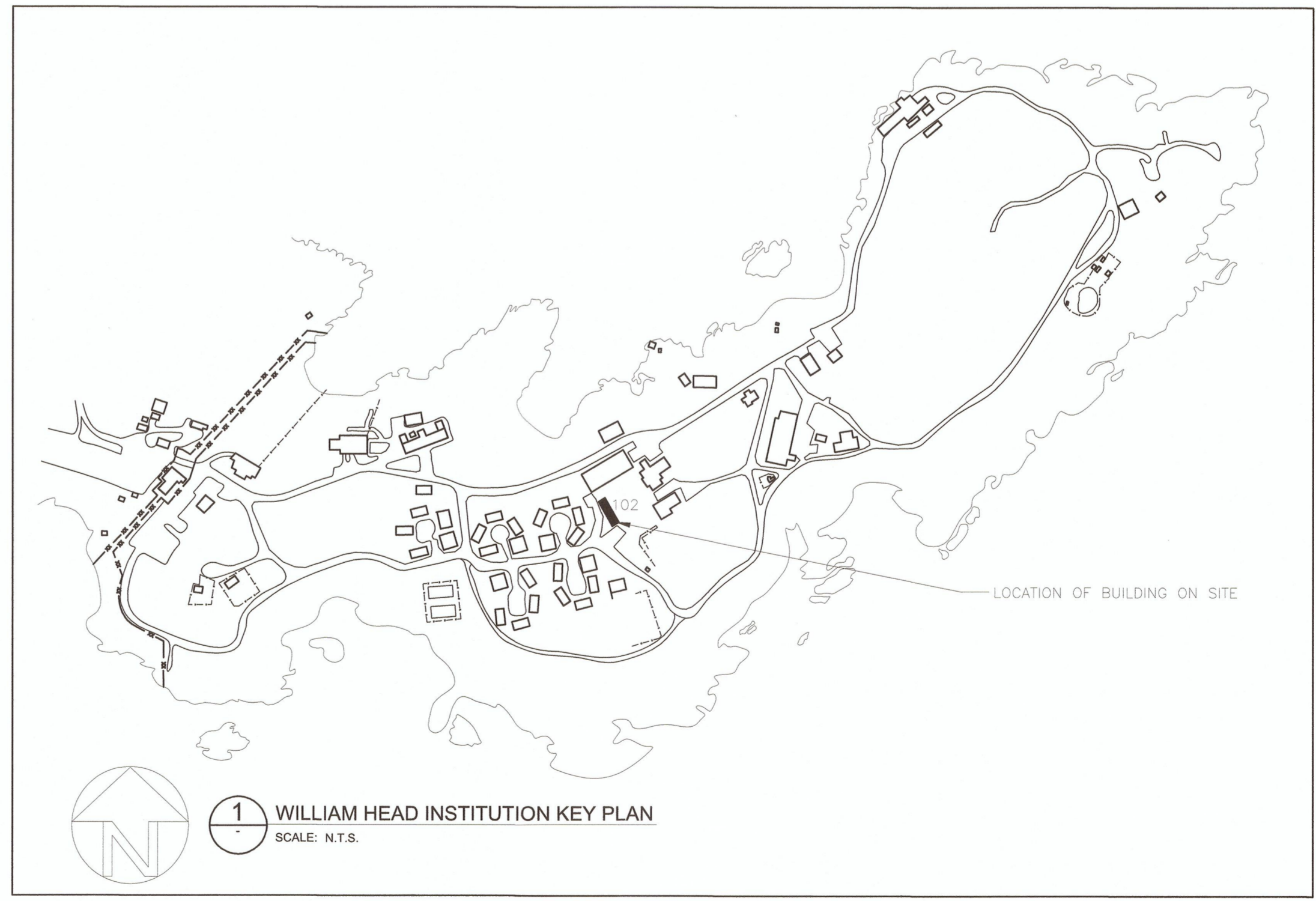
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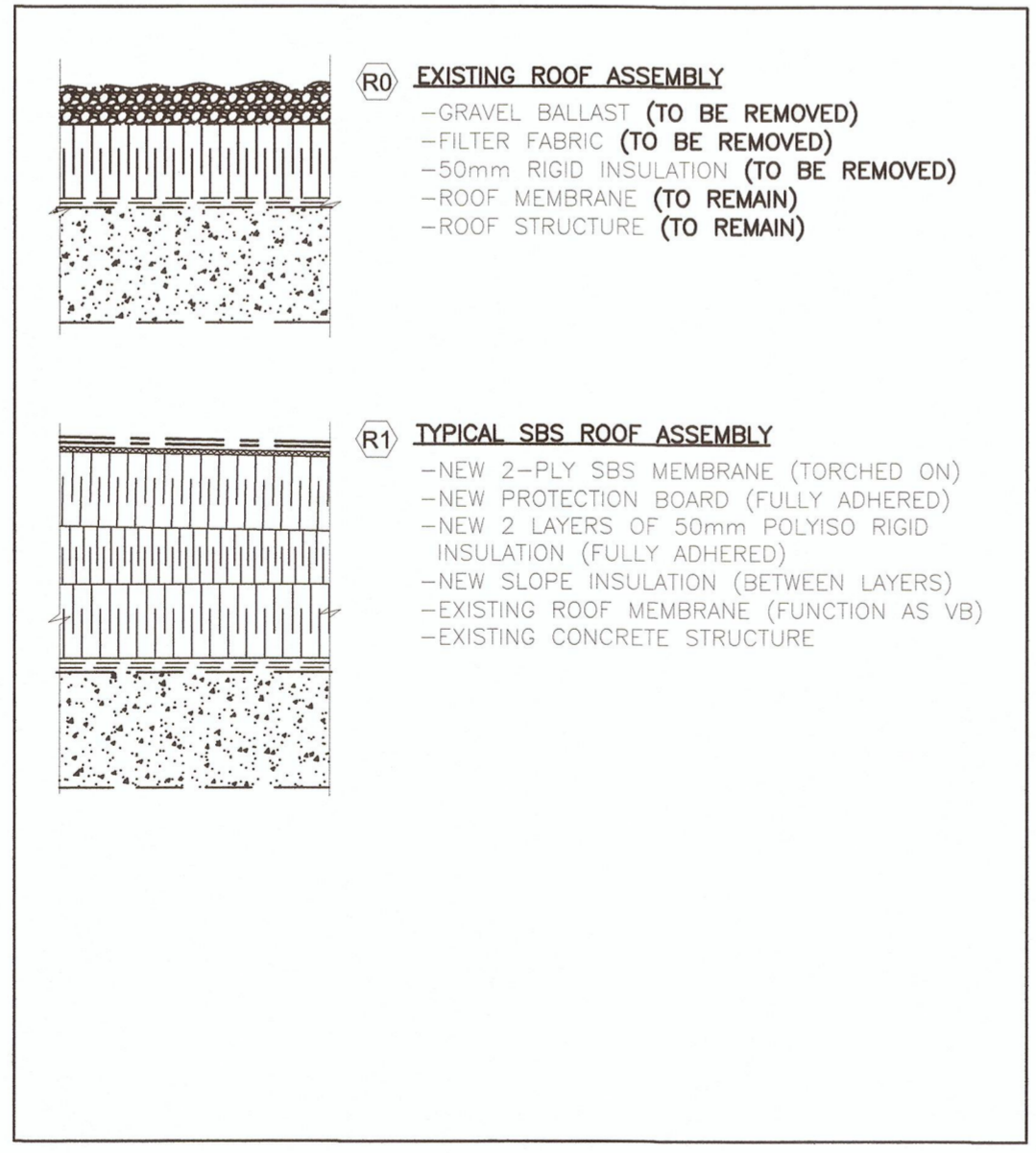
Detail Linetype Legend:



Key Plan:



Assemblies List:

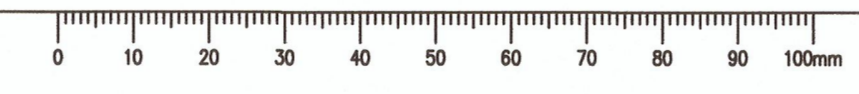


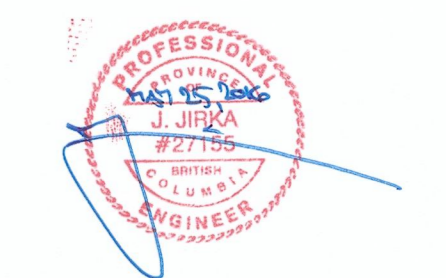
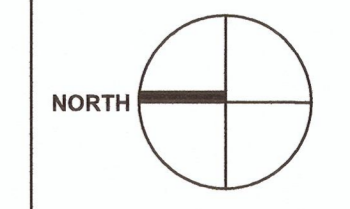
Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR PRELIMINARY TENDER	2016/05/25

CORRECTIONAL SERVICE CANADA
 Project Title/Titre du projet
METCHOSIN, BC
6000 WILLIAM HEAD ROAD
WILLIAM HEAD INSTITUTION ROOFING PROJECT

Consultant Signature Box Only
 Designed by/Concept par
Jay Jirka
 Drawn by/Dessiné par
Byron McElgunn
 PWGSC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair
 PWGSC, Regional Manager, Architectural and Engineering Services/
 Gestionnaire régionale, Services d'architectural et de génie, TPSGC
Preetipal Paul
 Drawing Title/Titre du dessin
BUILDING 102 - LIBRARY
COVER PAGE
GENERAL NOTES
LEGENDS AND ASSEMBLIES

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.079715.001	102-0 OF	7





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**WILLIAM HEAD INSTITUTION
ROOFING PROJECT**

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PWGC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

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

Drawing title/Titre du dessin
**BUILDING 102 - LIBRARY
DEMOLITION PLAN**

Project No./No. du projet R.079715.001	Sheet/Feuille 102-1 OF	Revision no./ La Révision no. 7
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1 ROOF PLAN
SCALE: 1:50

LEGEND:

	MECHANICAL EXHAUST FAN
	DECOMMISSIONED FAN TO BE REMOVED
	PLUMBING VENT STACK
	ROOF DRAIN
	PHOTO REFERENCE LOCATION

- NOTES:**
1. REMOVE AND DISPOSE OF EXISTING BALLAST, ROOFING ASSEMBLY, METAL FLASHING, WOOD BLOCKING AND DRAIN DOWN TO THE CONCRETE DECK.
 2. REMOVE DECOMMISSIONED FAN, INFILL AS REQUIRED AND ROOF OVER. REFER TO **102-M1** FOR DETAILS.
 3. REMOVE, BRACE AND REINSTATE CAMERA POLE AT EXISTING LOCATION. CAMERA MUST REMAIN FUNCTIONAL DURING CONSTRUCTION.
 4. REMOVE AND DISPOSE OF EXISTING CURBS FROM EXHAUST FANS (REPLACE WITH NEW METAL CURB)



PHOTO 1
TYPICAL MECHANICAL DOWNBLAST EXHAUST FANS AND PLUMBING VENT STACKS

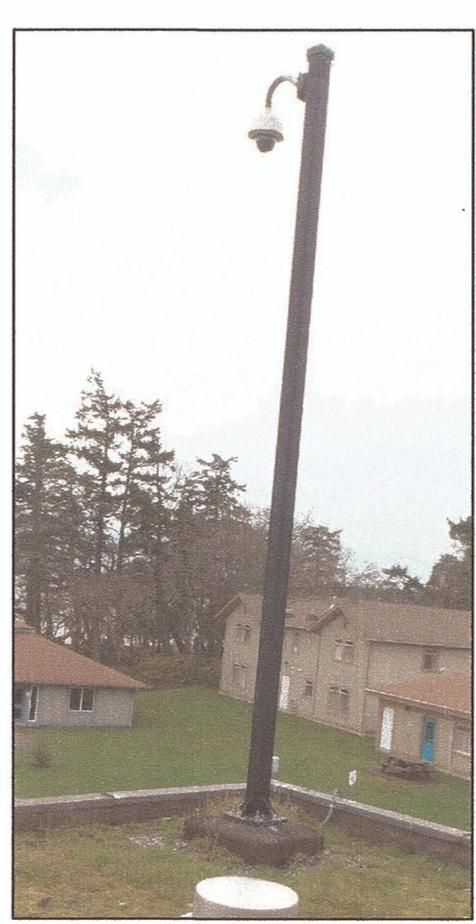


PHOTO 4
ROOF MOUNTED CCTV CAMERA



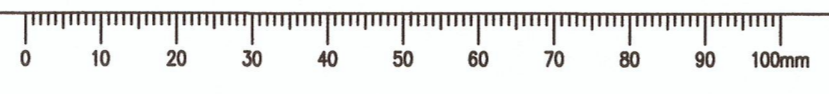
PHOTO 2
DECOMMISSIONED ROOF VENT



PHOTO 3
TYPICAL ROOF DRAIN



PHOTO 5
CCTV CAMERA CURB



Prime consultant/premier consultant



MH PROJECT NUMBER: 5160055.00



0	ISSUED FOR PRELIMINARY TENDER	2016/05/25
Revision/	Description/Description	Date/Date

Client/client

CORRECTIONAL SERVICES CANADA

Project title/Titre du projet
**METCHOSIN, BC
6000 WILIAM HEAD ROAD**

**WILLIAM HEAD INSTITUTION
ROOFING PROJECT**

Consultant Signature Box Only

Designed by/Concept par
Jay Jirka

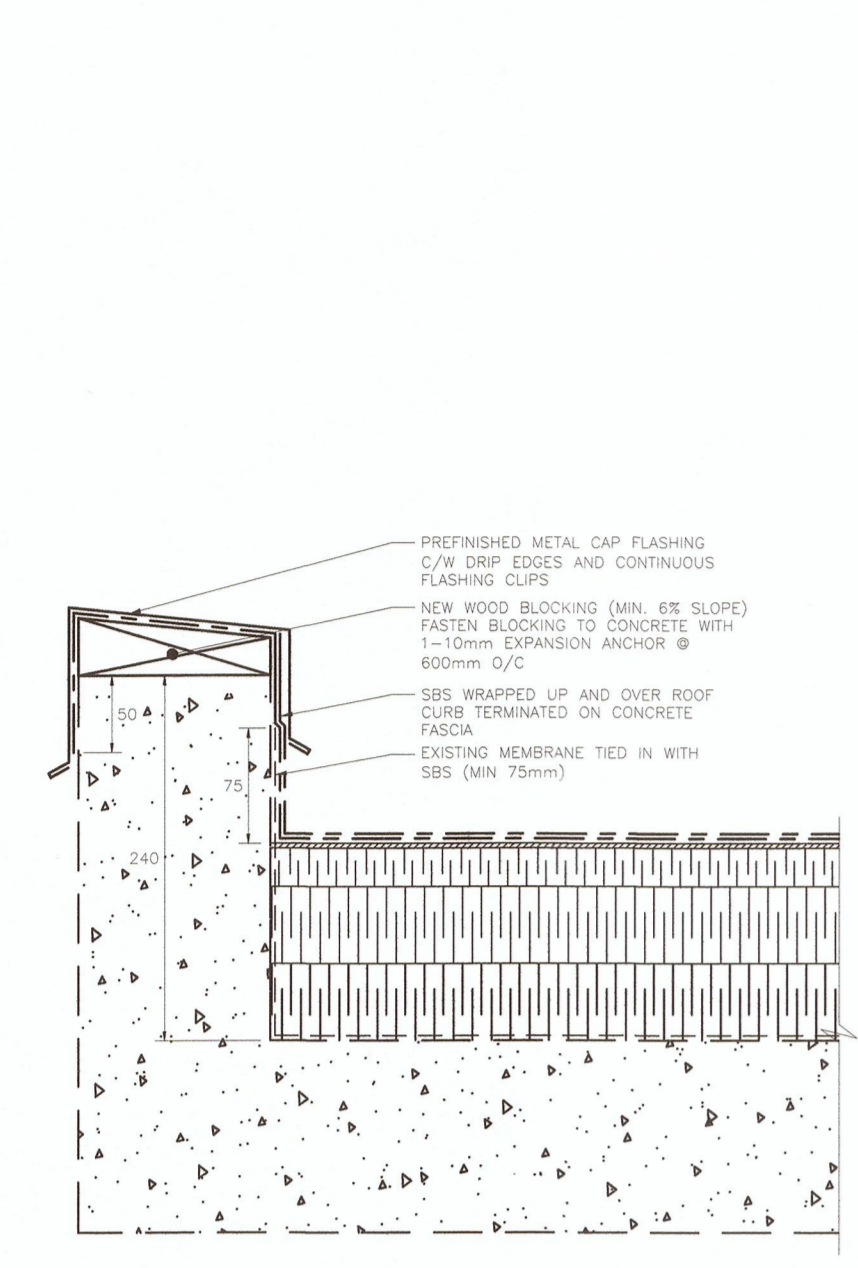
Drawn by/Dessine par
Byron McElgunn

PWGSC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

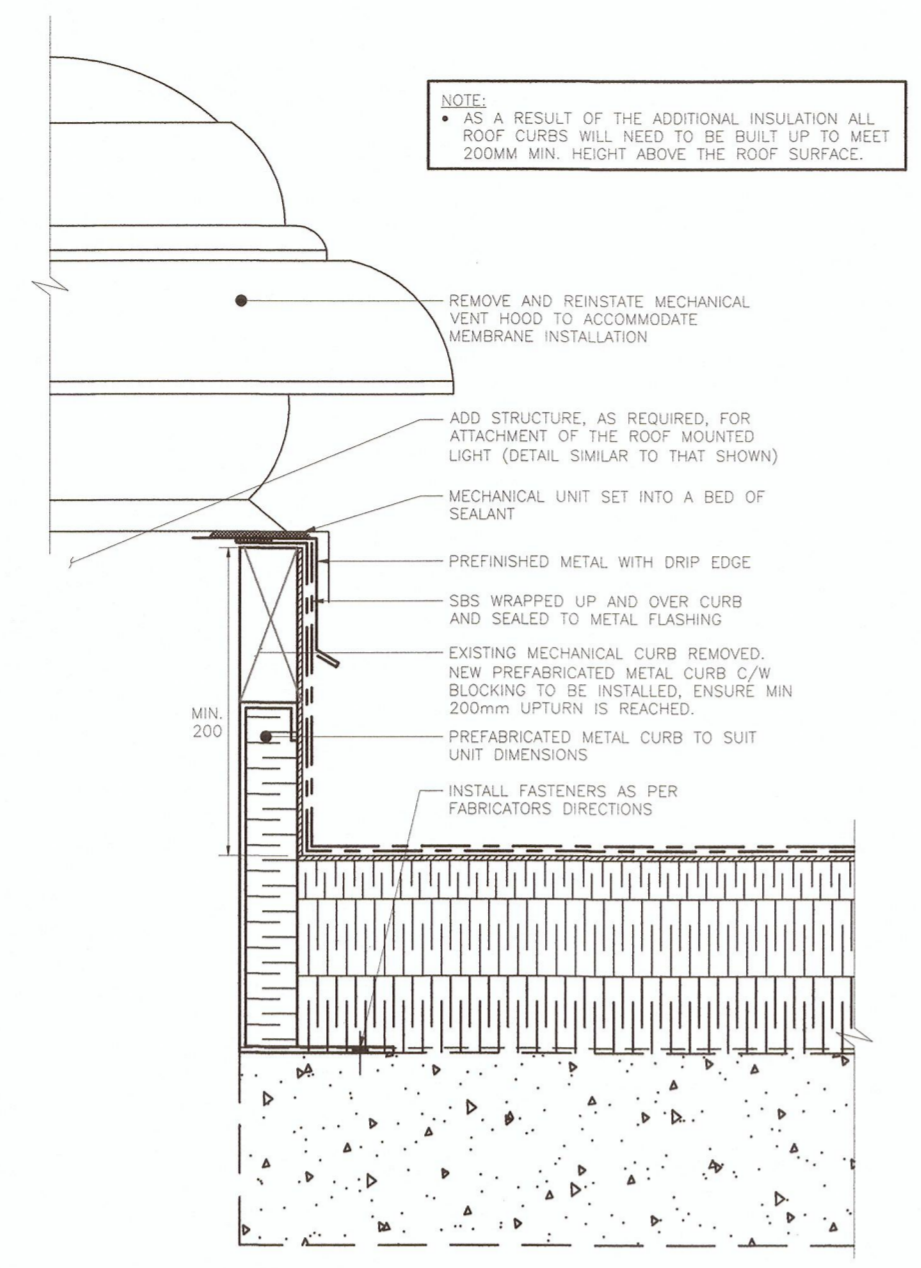
PWGSC, Regional Manager, Architectural and Engineering Services/
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
Preetipal Paul

Drawing title/Titre du dessin
**BUILDING 102 - LIBRARY
ROOF DETAILS**

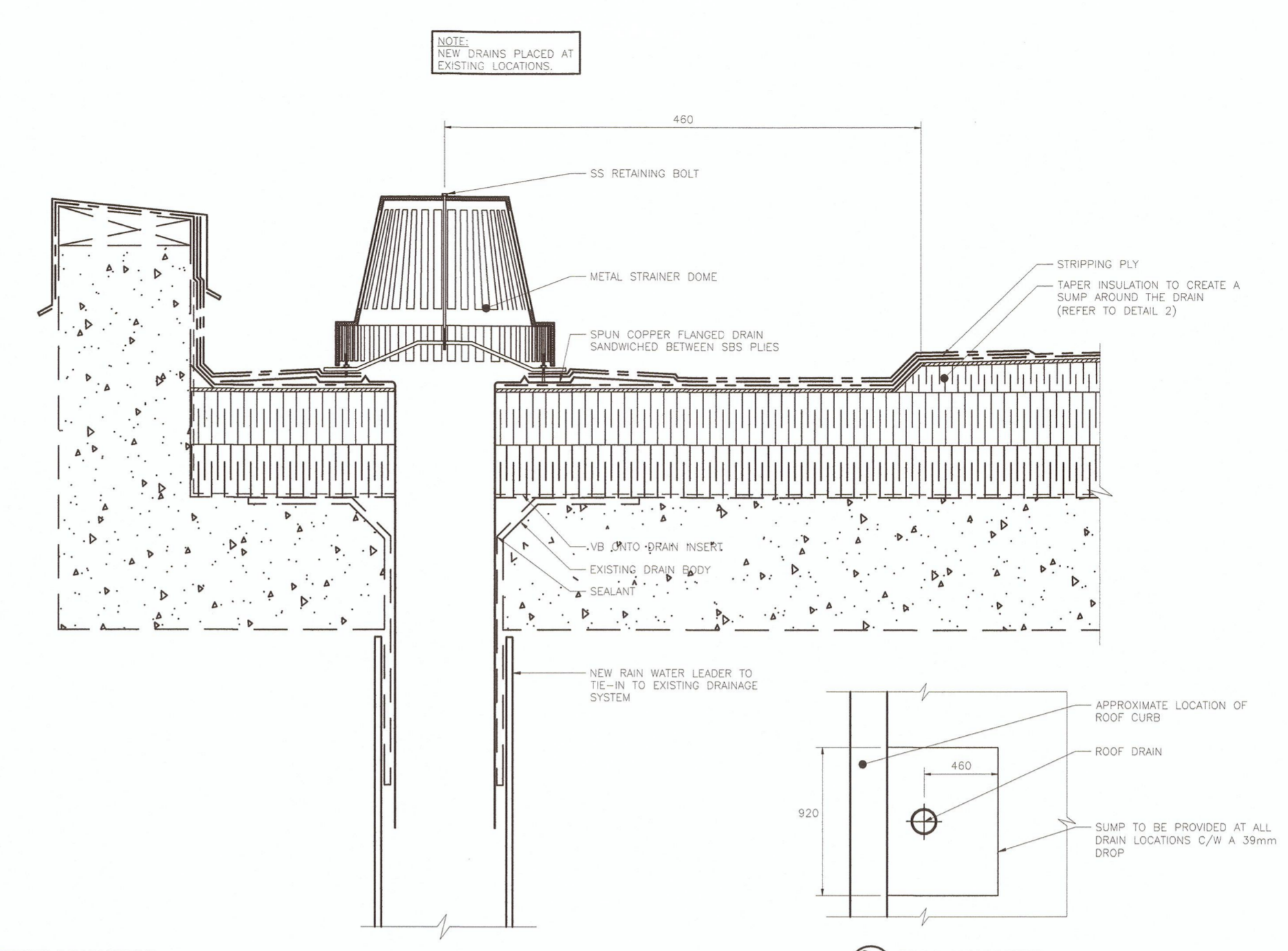
Project No./No. du projet R.079715.001	Sheet/Feuille 102-3 OF	Revision no./ La Révision no. 7
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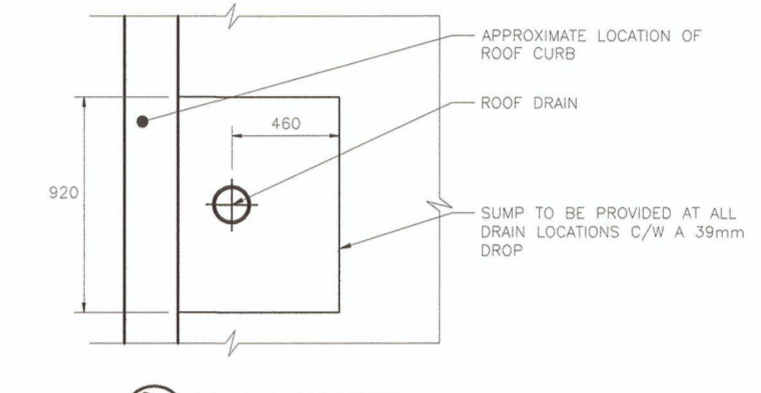
1 TYPICAL ROOF EDGE DETAIL
SCALE: 1:5



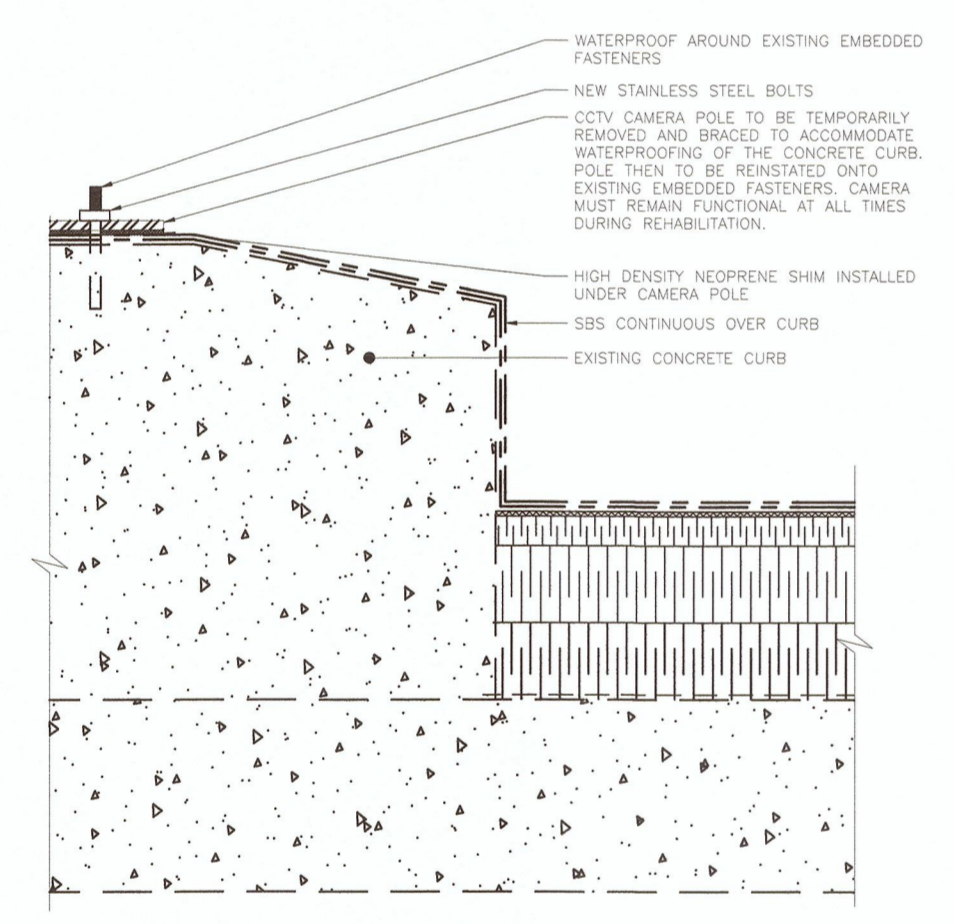
2 MECHANICAL CURB DETAIL
SCALE: 1:5



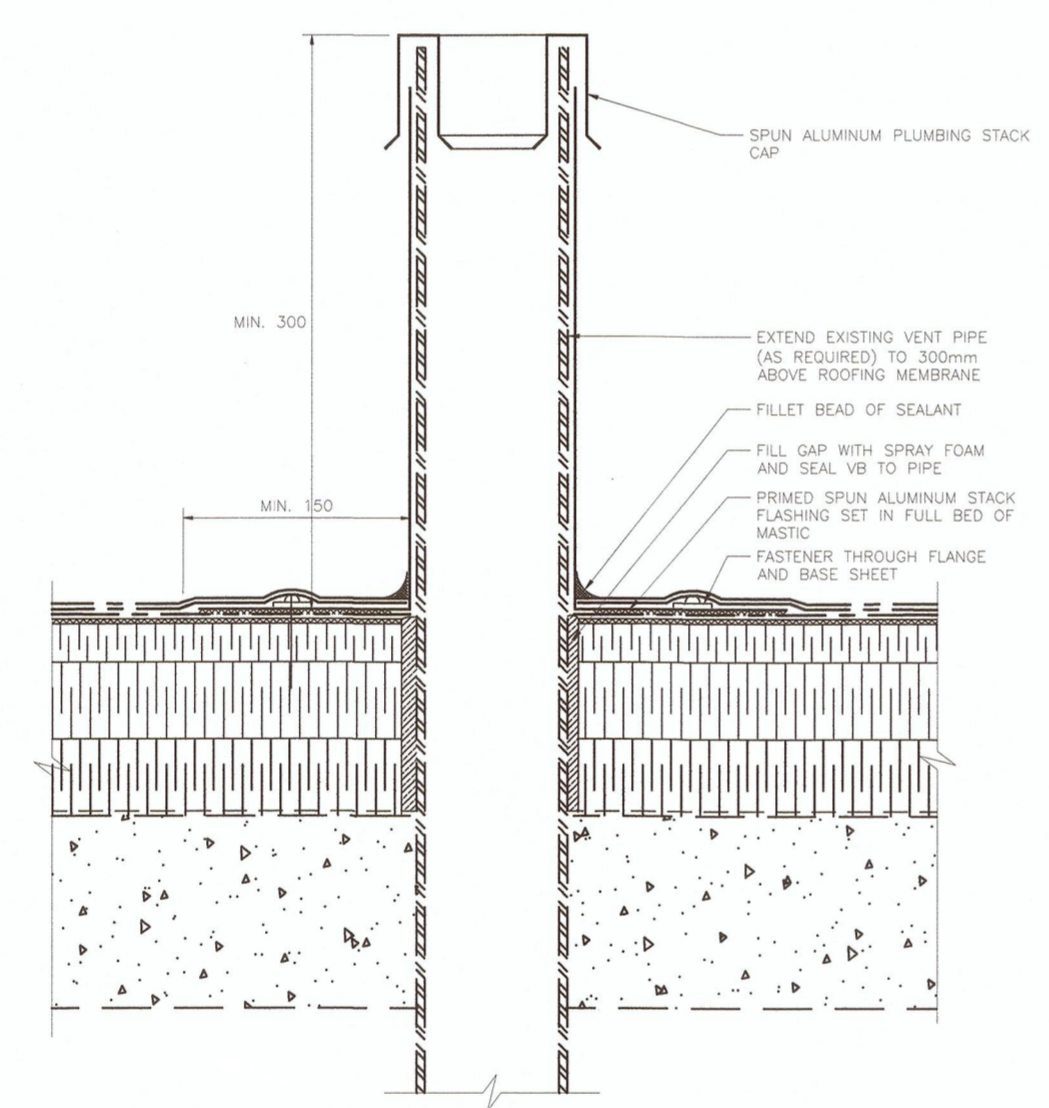
3 INTERNAL DRAIN DETAIL
SCALE: 1:5



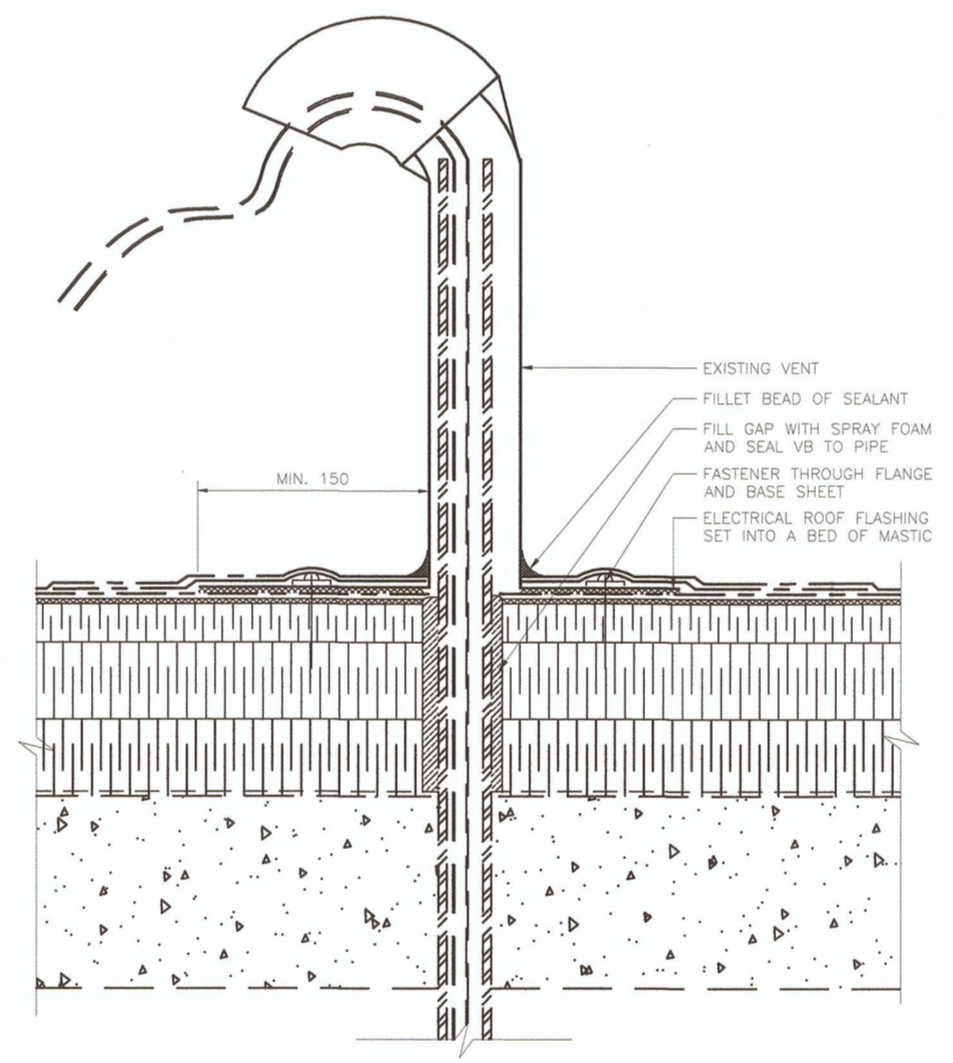
3a DRAIN SUMP DETAIL
SCALE: N.T.S.



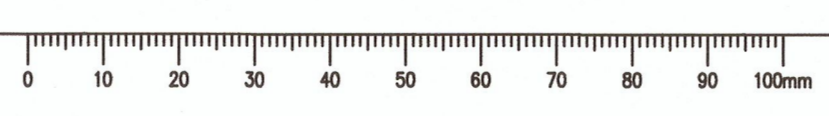
4 CCTV POLE DETAIL
SCALE: 1:5

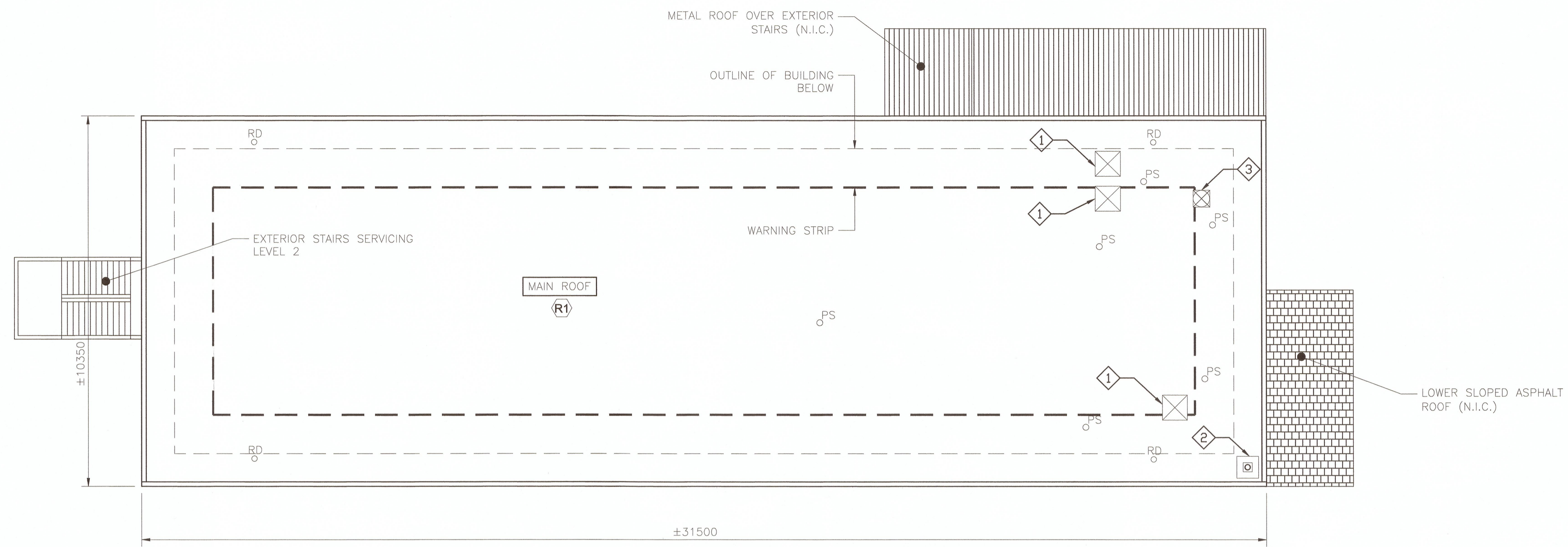
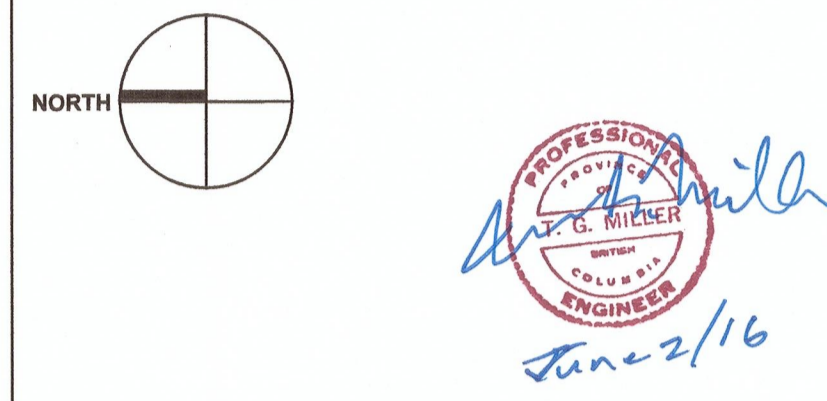


5 PLUMBING VENT STACK DETAIL
SCALE: 1:5



6 WIRE PENETRATION DETAIL
SCALE: 1:5





1 ROOF PLAN SCALE: 1/75

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE DONE BY AN ELECTRICIAN WITH A TRADE QUALIFICATION VALID IN BC.
2. POWER SUPPLY TO ELECTRICAL EQUIPMENT ON THE ROOF SHALL BE LOCKED OUR PRIOR TO DISCONNECTION.
3. ALL WORK ON GAS SUPPLY PIPING SHALL BE DONE BY A GAS FITTER LICENCED IN BC.
4. REFER TO SPECIFICATIONS 23 73 12 - HALOCARBON MANAGEMENT.
5. DISCONNECTION AND RE-CONNECTION OF REFRIGERATION PIPING SHALL BE DONE BY REFRIGERATION MECHANIC WITH A TRADE QUALIFICATION VALID IN BC.
6. SHEET METAL WORK SHALL BE DONE BY A QUALIFIED SHEET METAL TRADESMAN TO SMACNA STANDARDS. RE-ASSEMBLY OF DUCTWORK SHALL INCLUDE RE-SEALING OF JOINTS WITH APPROVED OUTDOOR DUCT SEALANT.
7. REFER TO HAZMAT REPORT IF AVAILABLE TO CONFIRM PRESENCE OF HAZARDOUS MATERIALS ON ROOF AND MECHANICAL EQUIPMENT. MECHANICAL EQUIPMENT TO BE HANDLED AS PER HAZMAT REGULATIONS IF HAZARDOUS MATERIALS ARE PRESENT.
8. ALL RE-INSTALLED AND NEW MECHANICAL/ELECTRICAL EQUIPMENT SHALL BE APPROPRIATELY ANCHORED/RESTRAINED. DESIGN AND FIELD REVIEW SHALL BE COMPLETED BY A QUALIFIED SEISMIC ENGINEER. LETTERS OF ASSURANCE SHALL BE SUBMITTED.
9. PRIOR TO COMMENCEMENT OF WORK, CONFIRM OPERATION OF ALL MECHANICAL EQUIPMENT ON THE ROOF AND REPORT ANY DEFICIENCIES TO THE DEPARTMENTAL REPRESENTATIVE. UPON REINSTALLATION, EQUIPMENT SHALL BE TESTED/COMMISSIONED TO ENSURE OPERATIONAL.
10. EQUIPMENT LISTED SHALL BE EITHER REMOVED FROM THE ROOF OR AS A MINIMUM LIFTED AND TEMPORARILY SUPPORTED SO AS TO PROVIDE ADEQUATE CLEARANCE FOR ROOFING AND FLASHING WORK TO BE COMPLETED.
11. MECHANICAL ITEMS THAT ARE TO BE RE-INSTALLED SHALL BE REMOVED, STORED AND RE-INSTALLED WITH DUE CARE AS NECESSARY TO PREVENT ANY DAMAGE.

LEGEND	
	EXHAUST FAN
	DECOMMISSIONED VENT TO BE REMOVED
	EXISTING CAP FLASHING
	GUARDRAIL
	A/C OR AIR HANDLING UNIT
	PLUMBING STACK
	ROOF DRAIN
	SCUPPER DRAIN
	GUTTER

DETAILS		
READER NO.	PHOTO	COMMENTS
1		1. DISCONNECT POWER SUPPLY WIRING AND REMOVE EXHAUST FAN FROM CURB. 2. COVER OPENING DURING ROOFING WORK. 3. RE-INSTALL FAN AND BASE ON NEW PRE-FAB ROOF CURB AND RE-CONNECT POWER AFTER NEW ROOF IS COMPLETED.
2		1. CCTV CAMERA AND POLE MOUNTED ON EXISTING 610x610x200 CURB. REMOVE AND BRACE CAMERA POLE AND COMPLETELY ROOF OVER EXISTING CURB. 2. REINSTATE CAMERA POLE TO EXISTING LOCATION. CAMERA MUST REMAIN FUNCTIONAL DURING CONSTRUCTION.
3		1. REMOVE DECOMMISSIONED ROOF VENT AND ROOF CURB. COVER OPENINGS DURING ROOFING WORK. 2. ROOF OVER VENT AS PER DETAIL AND ROOFING SPECIFICATION.

Revision/Revisions	Description/Description	Date/Date
0	ISSUED FOR PRELIMINARY TENDER	2016/05/25

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**METCHOSIN, BC
6000 WILIAM HEAD ROAD**

**WILLIAM HEAD INSTITUTION
ROOFING PROJECT**

Consultant Signature Box Only

Designed by/Concept par
Jay Jirka

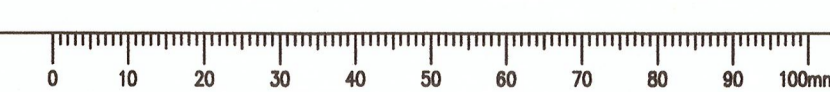
Drawn by/Dessine par
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PWGSC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

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

Drawing title/Titre du dessin
**BUILDING 102 - LIBRARY
ROOF PLAN
MECHANICAL DRAWING**

Project No./No. du projet R.079715.001	Sheet/Feuille 102-M1 1 OF 1	Revision no./ La Révision no. 7
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WILLIAM HEAD INSTITUTION ROOFING PROJECT

PROJECT NUMBER: R.079716.001

BUILDING 104 - PRINCIPAL ENTRANCE

Prime consultant/premier consultant



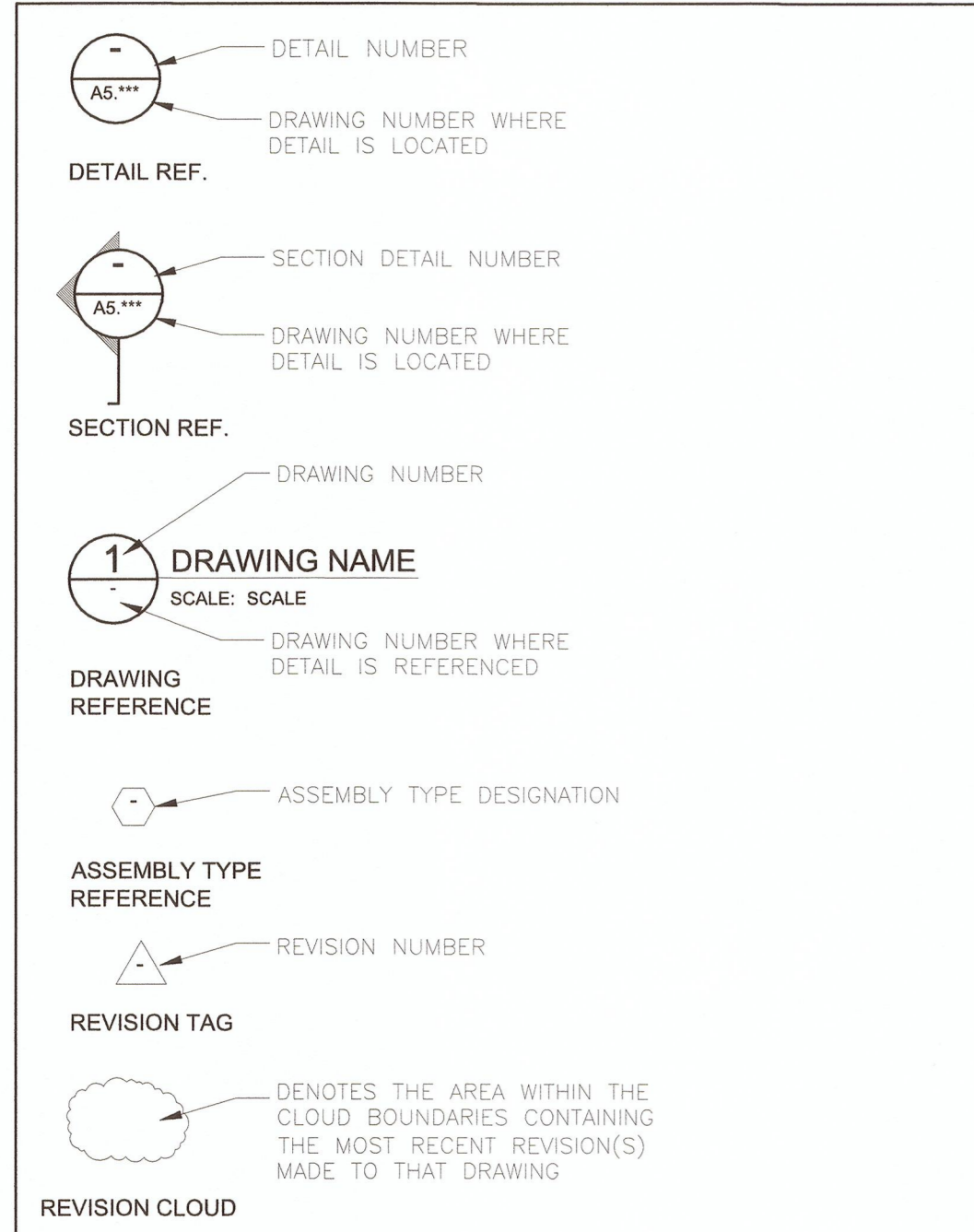
MH PROJECT NUMBER: 5160055.00



Drawing List:

104-0	COVER PAGE, GENERAL NOTES, LEGENDS AND ASSEMBLIES
104-1	DEMOLITION PLAN
104-2	ROOF PLAN
104-3	GUARDRAIL AND ACCESS LADDER ELEVATIONS
104-4	ROOF DETAILS
104-M1	ROOF PLAN MECHANICAL DRAWING

Symbols Legend:



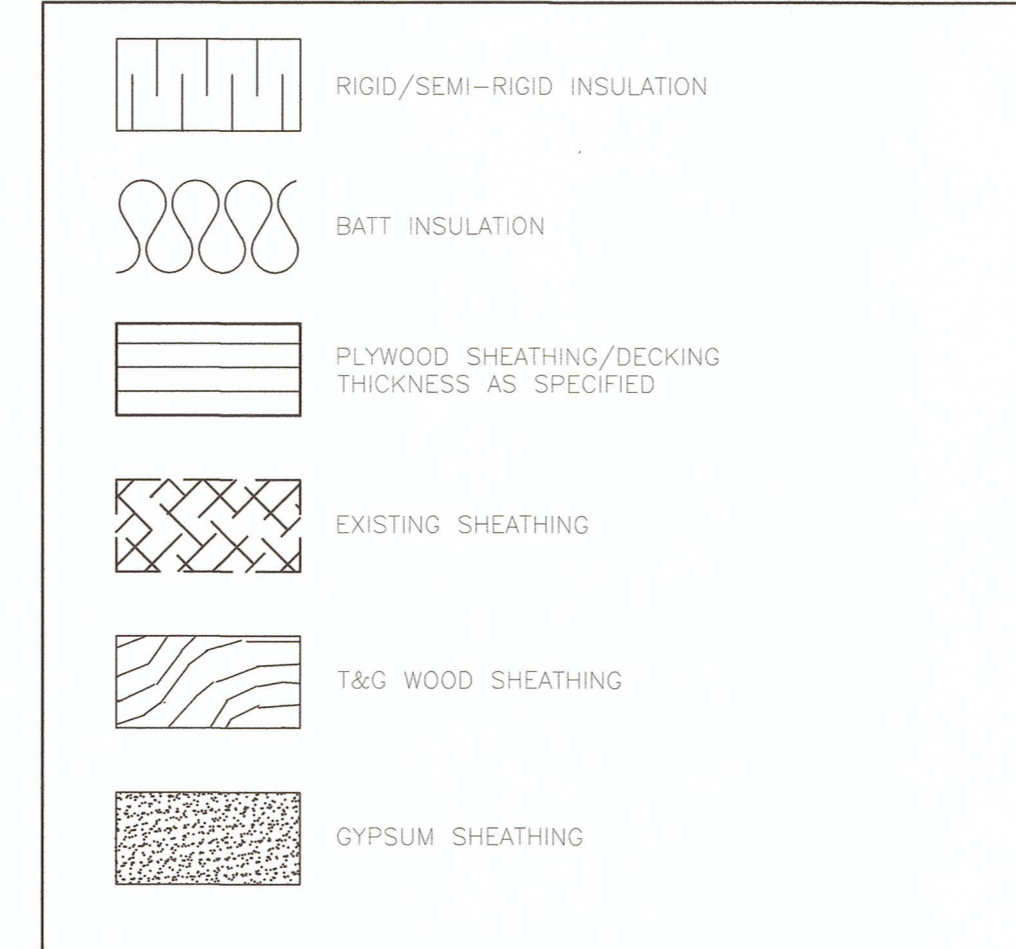
Abbreviations List:

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ADD.	ADDENDUM

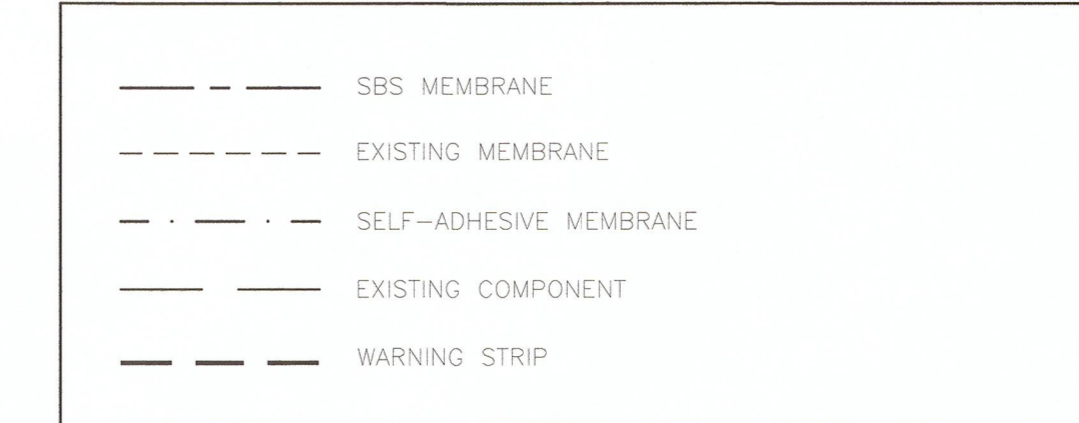
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- 0.11 PROTECT NEW ROOFING MEMBRANE FROM TRAFFIC AND WORK.

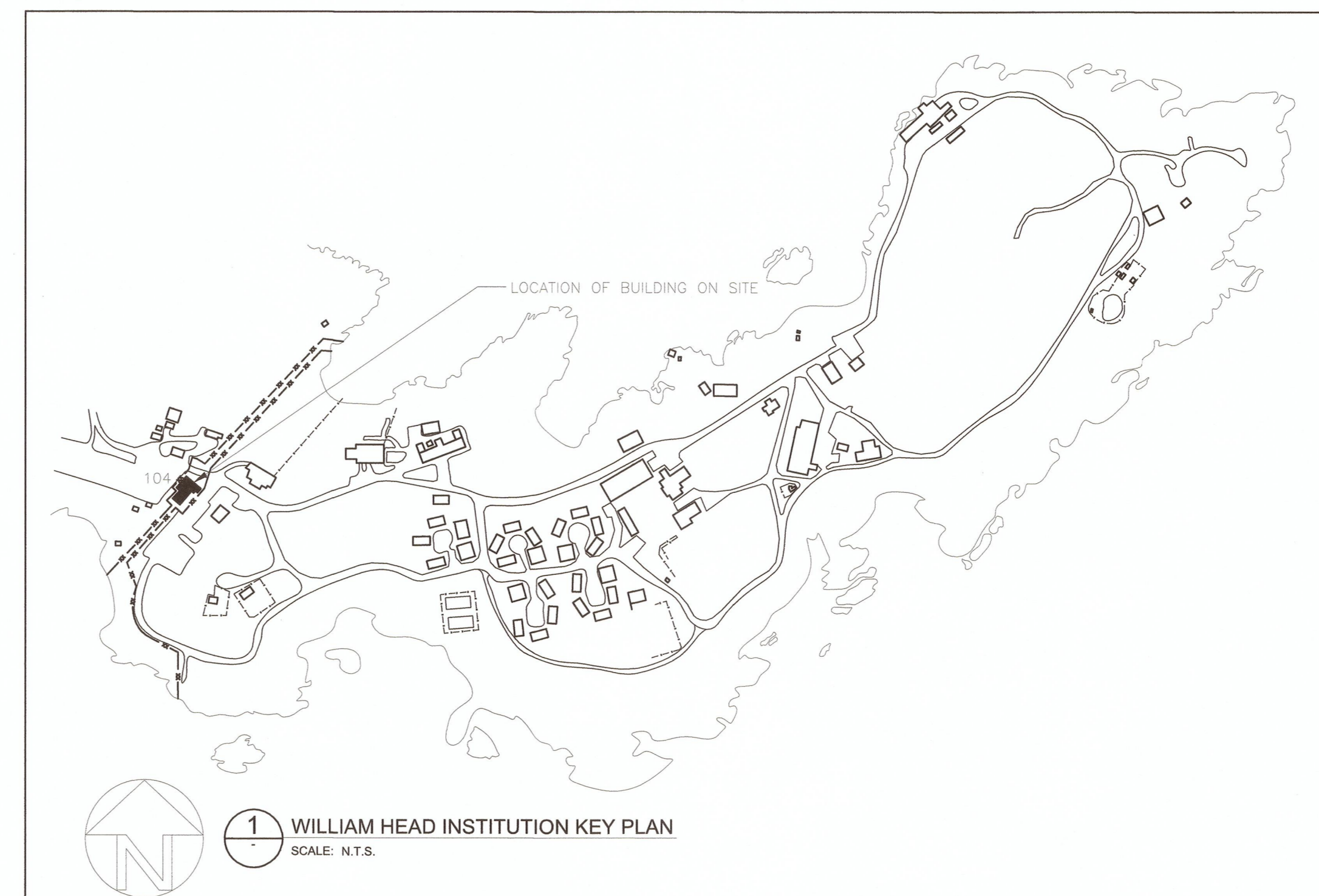
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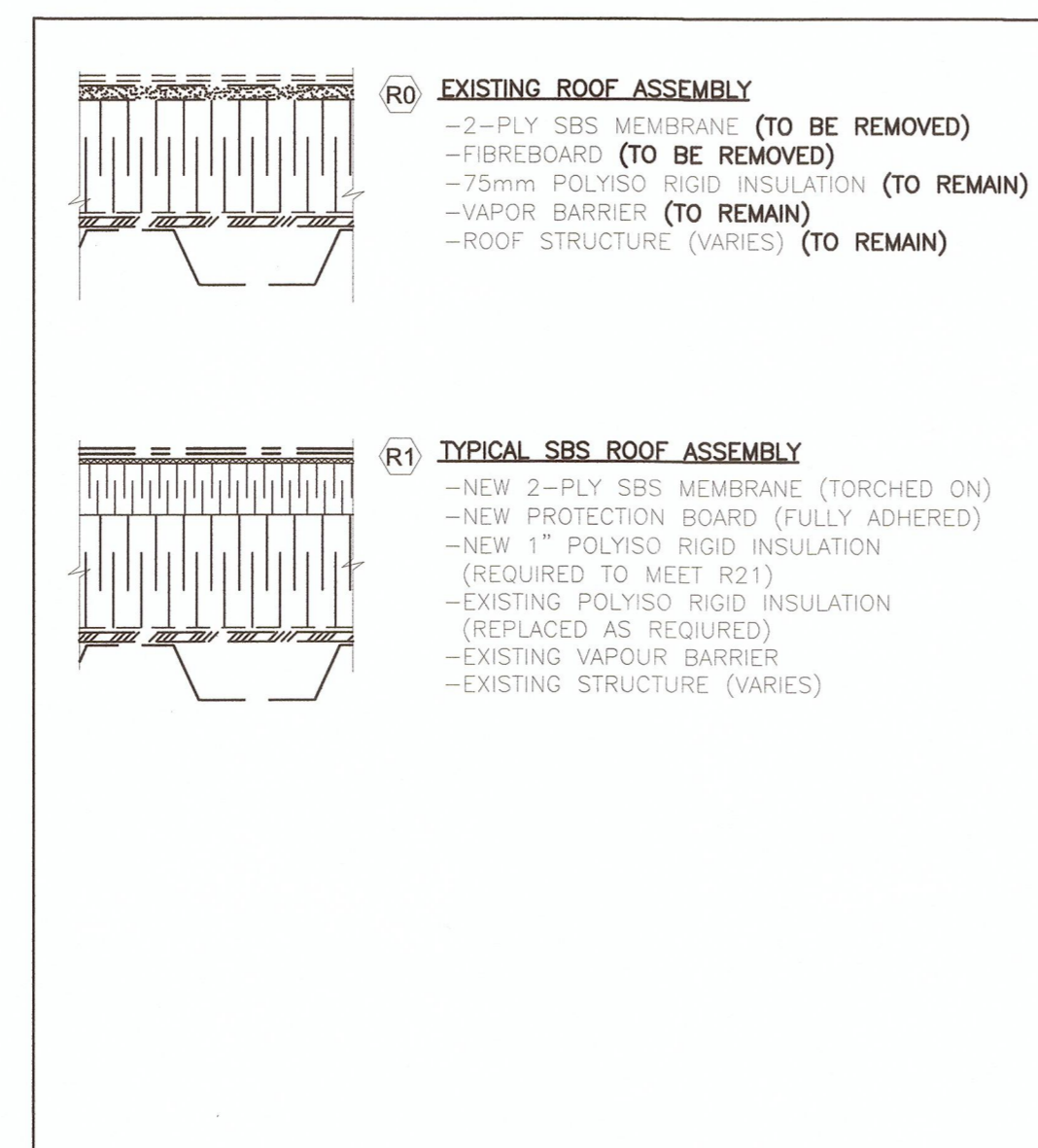
Detail Linetype Legend:



Key Plan:



Assemblies List:



Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	2016/05/25

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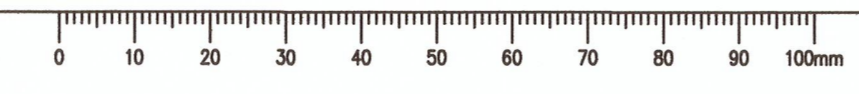
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Drawing title/Titre du dessin
**BUILDING 104 - PRINCIPAL ENTRANCE
COVER PAGE
GENERAL NOTES
LETGENDS AND ASSEMBLIES**

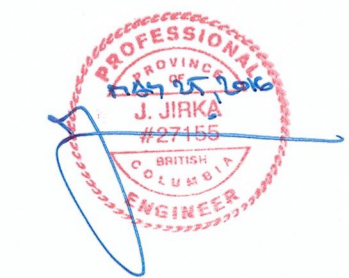
Project No./No. du projet R.079716.001	Sheet/Feuille 104-0 OF	Revision no./ Lo Révision no. 7
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Prime consultant/premier consultant



MH PROJECT NUMBER: 5160055.00



0	ISSUED FOR TENDER	2016/05/25
Revision/Revision	Description/Description	Date/Date

Client/Client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**METCHOSIN, BC
6000 WILLIAM HEAD ROAD**

**WILLIAM HEAD INSTITUTION
ROOFING PROJECT**

Consultant Signature Box Only

Designed by/Concept par
Jay Jirka

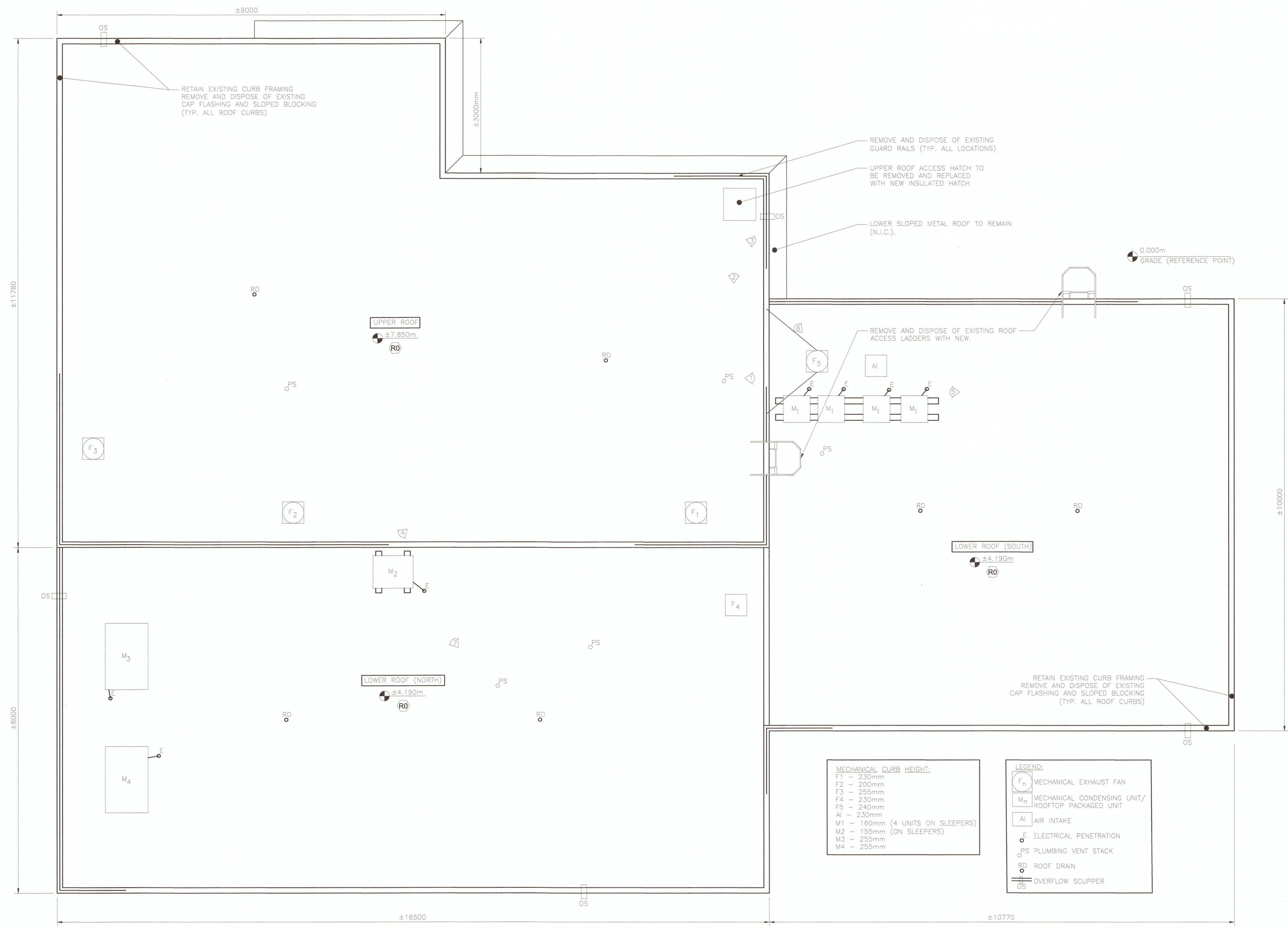
Drawn by/Dessine par
Byron McElgunn

PWGSC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

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

Drawing title/Titre du dessin
**BUILDING 104 - PRINCIPAL ENTRANCE
DEMOLITION PLAN**

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MECHANICAL CURB HEIGHT:

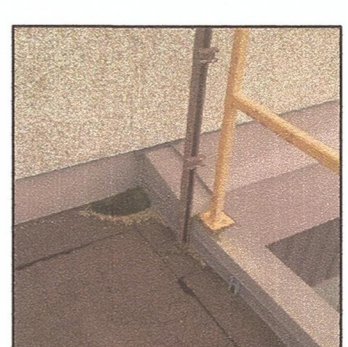
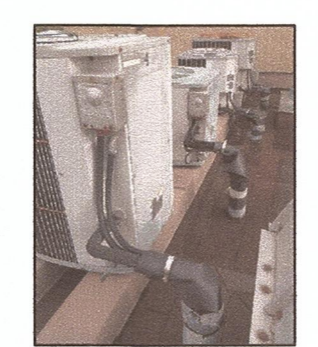
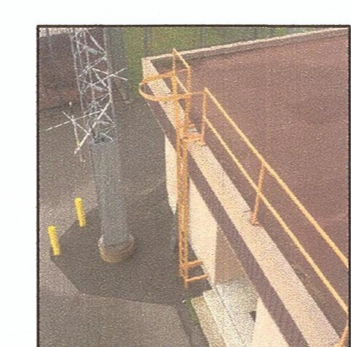
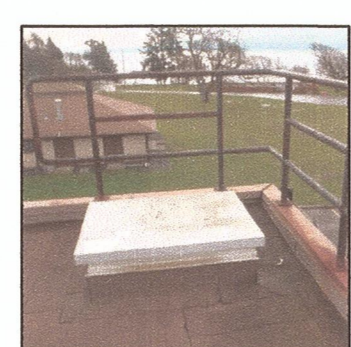
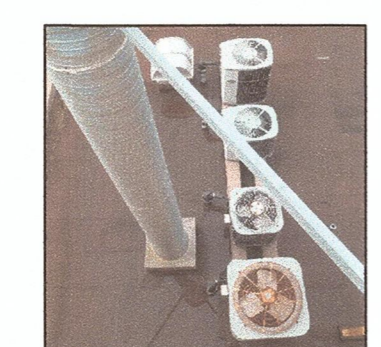
F1 - 230mm
F2 - 200mm
F3 - 255mm
F4 - 230mm
F5 - 240mm
AI - 230mm
M1 - 160mm (4 UNITS ON SLEEPERS)
M2 - 155mm (ON SLEEPERS)
M3 - 255mm
M4 - 255mm

LEGEND:

	MECHANICAL EXHAUST FAN
	MECHANICAL CONDENSING UNIT/ROOFTOP PACKAGED UNIT
	AIR INTAKE
	ELECTRICAL PENETRATION
	PLUMBING VENT STACK
	ROOF DRAIN
	OVERFLOW SCUPPER

1 ROOF PLAN
SCALE: 1:50

- NOTES:
- REMOVE AND DISPOSE OF EXISTING ROOFING ASSEMBLY, METAL FLASHING, BLOCKING AND DRAIN DOWN TO THE INSULATION LEVEL.
 - REMOVE AND REPLACE EXISTING ROOF ACCESS LADDER AND GUARDRAILS.
 - REMOVE AND REPLACE EXISTING OVERFLOW SCUPPERS WITH NEW SPUN COPPER SCUPPERS.
 - REMOVE AND DISPOSE OF EXISTING CURBS FROM EXHAUST FANS (REPLACE WITH NEW METAL CURB)



PHOTO_1
M1, F5 AND AI CLUSTER

PHOTO_2
ROOF ACCESS HATCH

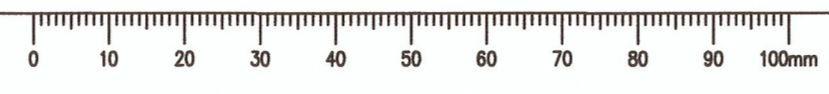
PHOTO_3
LOWER ROOF ACCESS LADDER

PHOTO_4
MECHANICAL ROOF TOP PACKAGED UNITS M3&M4

PHOTO_5
M1 MECHANICAL CONDENSING UNIT REFRIGERATION LINE PENETRATIONS

PHOTO_6
FLAT TO SLOPED ROOF TRANSITION

PHOTO_7
MECHANICAL CONDENSING UNIT M2





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CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**METCHOSIN, BC
6000 WILLIAM HEAD ROAD**

**WILLIAM HEAD INSTITUTION
ROOFING PROJECT**

Consultant Signature Box Only

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Drawn by/Dessiné par
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Gestionnaire régionale, Services d'architecture et de génie, TPSGC
Preetipal Paul

Drawing title/Titre du dessin

**BUILDING 104 - PRINCIPAL ENTRANCE
ROOF PLAN**

Project No./No. du projet

R.079716.001

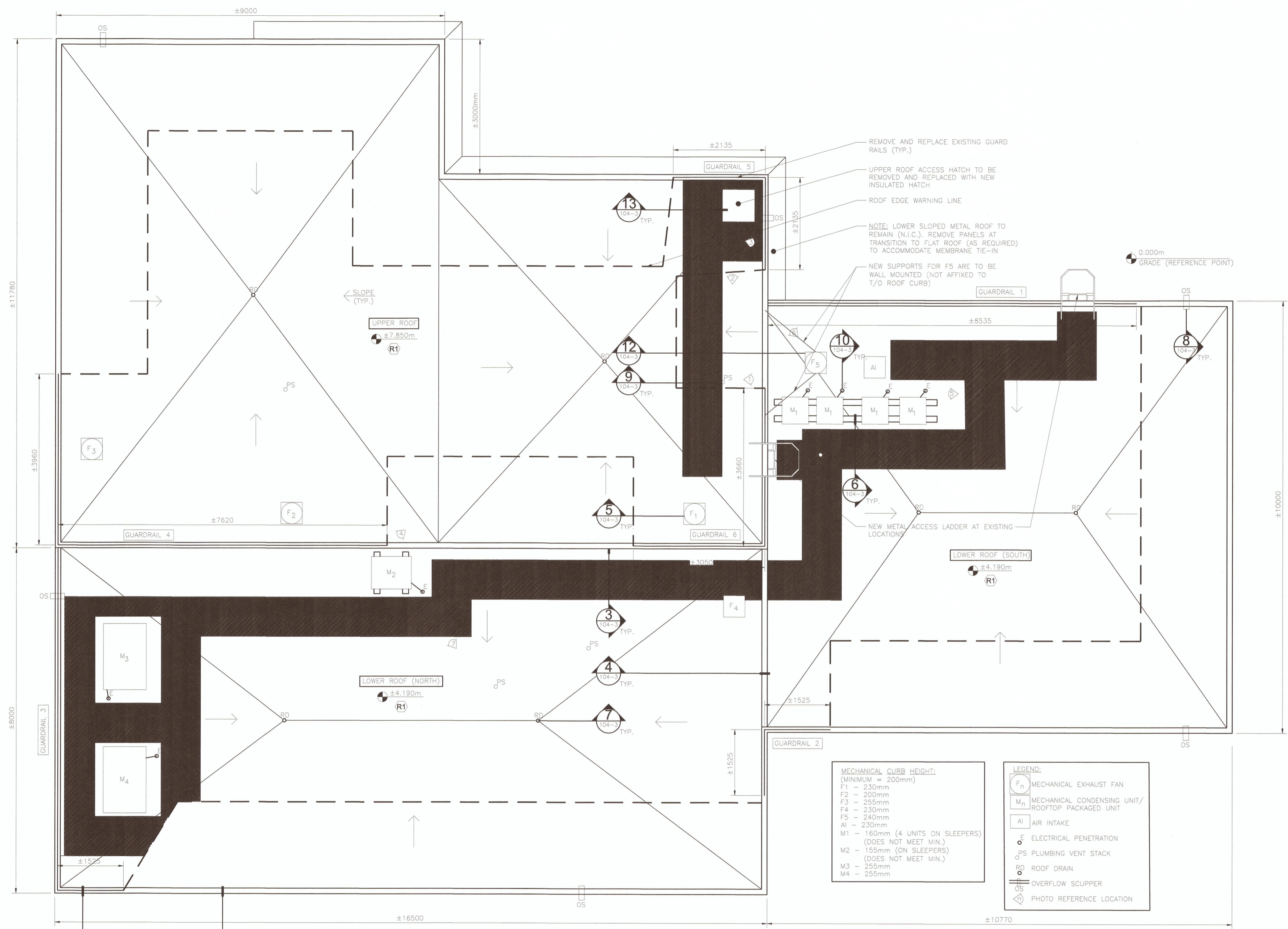
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104-2

OF

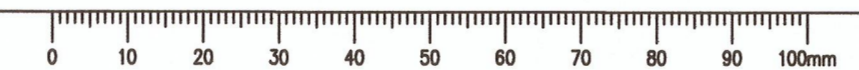
Revision no./
La Révision no.

7



<p>MECHANICAL CURB HEIGHT: (MINIMUM = 200mm)</p> <p>F1 - 230mm F2 - 200mm F3 - 255mm F4 - 230mm F5 - 240mm A1 - 230mm M1 - 160mm (4 UNITS ON SLEEPERS) (DOES NOT MEET MIN.) M2 - 155mm (ON SLEEPERS) (DOES NOT MEET MIN.) M3 - 255mm M4 - 255mm</p>	<p>LEGEND:</p> <p>F_n MECHANICAL EXHAUST FAN</p> <p>M_n MECHANICAL CONDENSING UNIT/ ROOFTOP PACKAGED UNIT</p> <p>A1 AIR INTAKE</p> <p>F ELECTRICAL PENETRATION</p> <p>PS PLUMBING VENT STACK</p> <p>RD ROOF DRAIN</p> <p>OS OVERFLOW SCUPPER</p> <p>⊙ PHOTO REFERENCE LOCATION</p>
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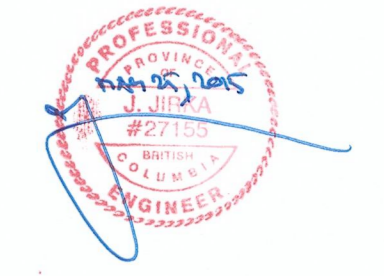
1 ROOF PLAN
SCALE: 1:50



Prime consultant/premier consultant



MH PROJECT NUMBER: 5160055.00



0	ISSUED FOR TENDER	2016/05/25
Revision/Revision	Description/Description	Date/Date

Client/client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**METCHOSIN, BC
6000 WILIAM HEAD ROAD**

**WILLIAM HEAD INSTITUTION
ROOFING PROJECT**

Consultant Signature Box Only

Designed by/Concept par
Jay Jirka

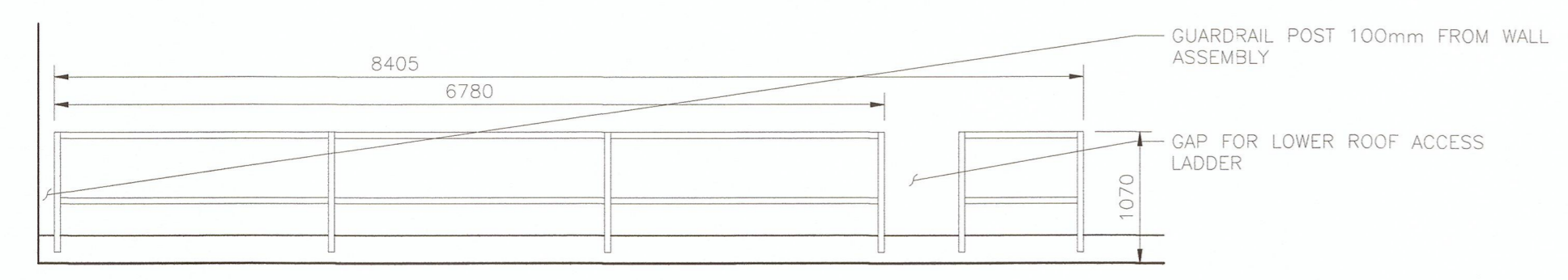
Drawn by/Dessine par
Byron McElgunn

PWGSC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

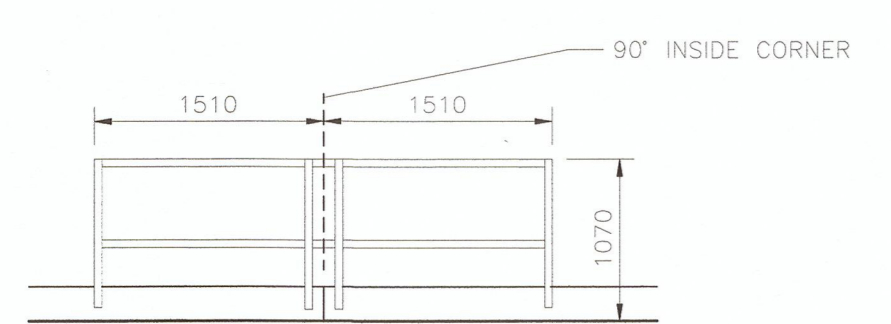
PWGSC, Regional Manager, Architectural and Engineering Services/
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
Prestipal Paul

Drawing title/Titre du dessin
**BUILDING 104 - PRINCIPAL ENTRANCE
GUARDRAIL AND ACCESS LADDER
ELEVATIONS**

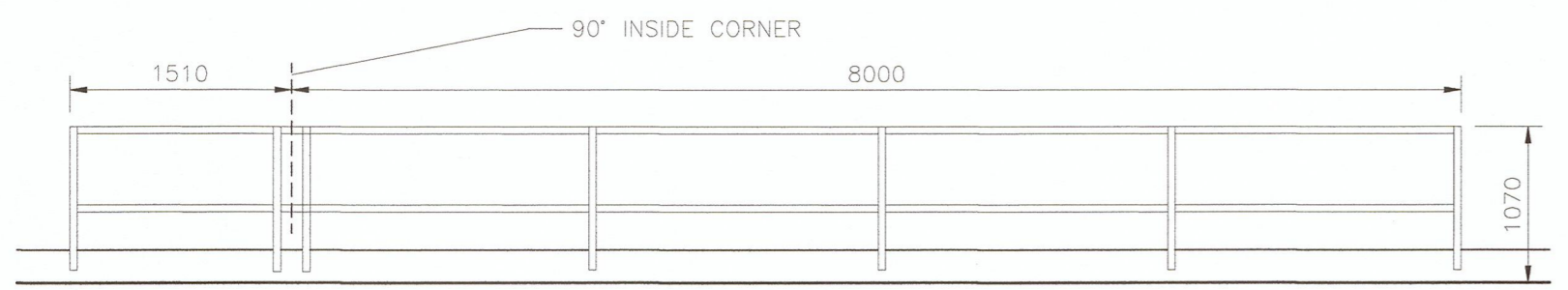
Project No./No. du projet R.079716.001	Sheet/Feuille 104-3 OF	Revision no./ La Révision no. 7
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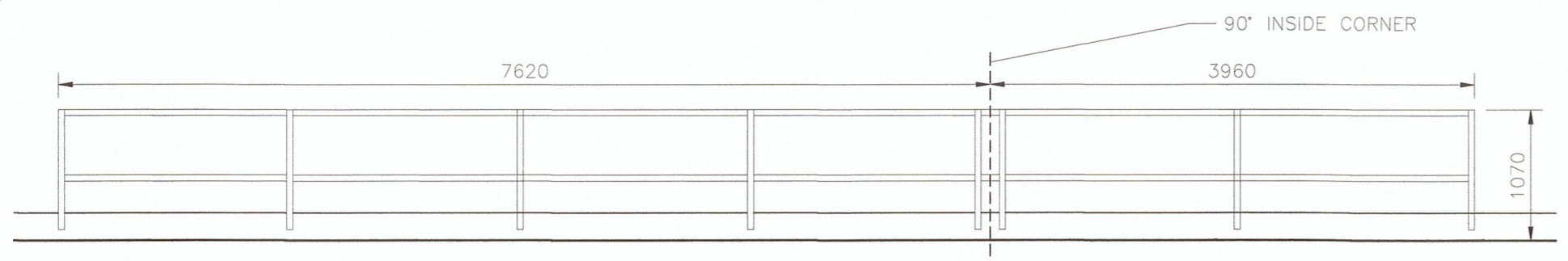
1 GUARDRAIL 1 ELEVATION
SCALE: 1:50



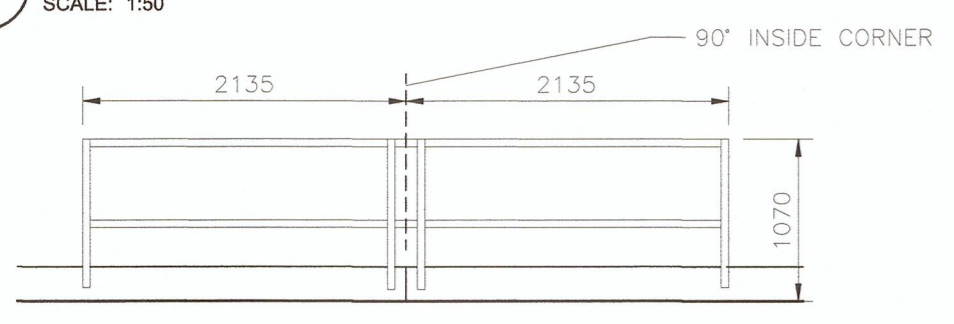
2 GUARDRAIL 2 ELEVATION
SCALE: 1:50



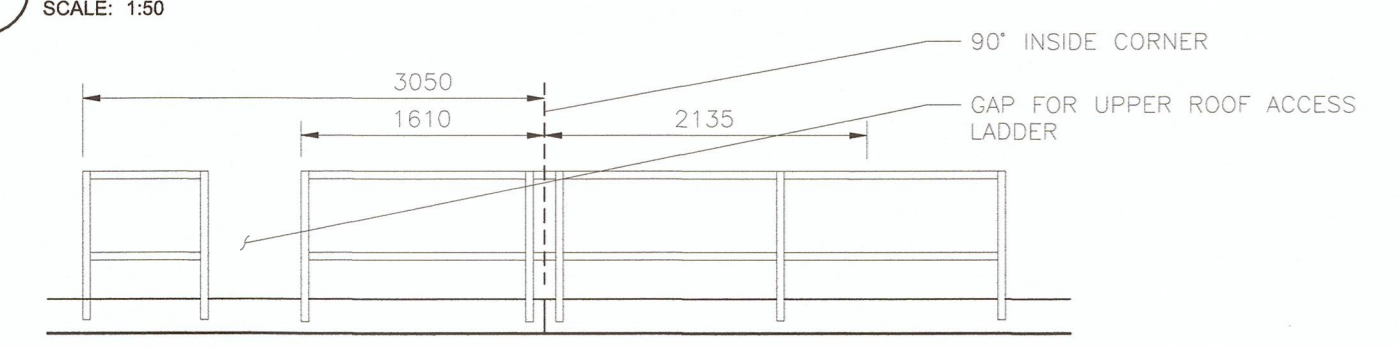
3 GUARDRAIL 3 ELEVATION
SCALE: 1:50



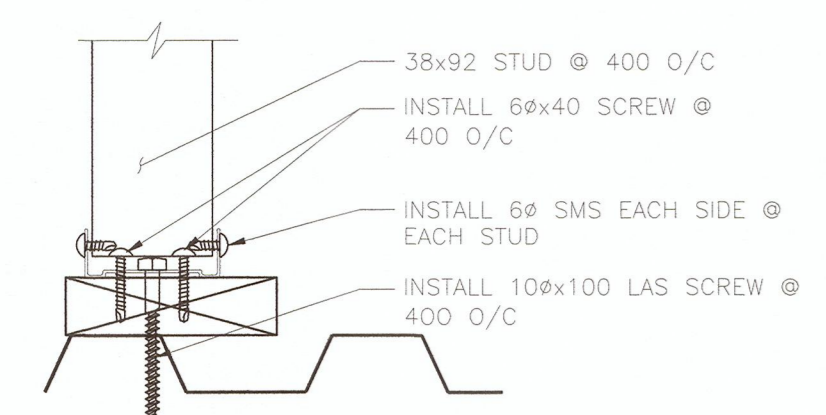
4 GUARDRAIL 4 ELEVATION
SCALE: 1:50



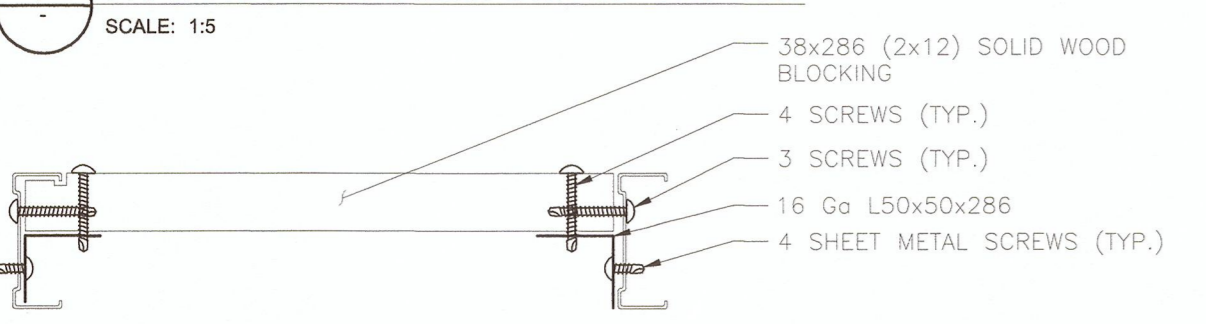
5 GUARDRAIL 5 ELEVATION
SCALE: 1:50



6 GUARDRAIL 6 ELEVATION
SCALE: 1:50

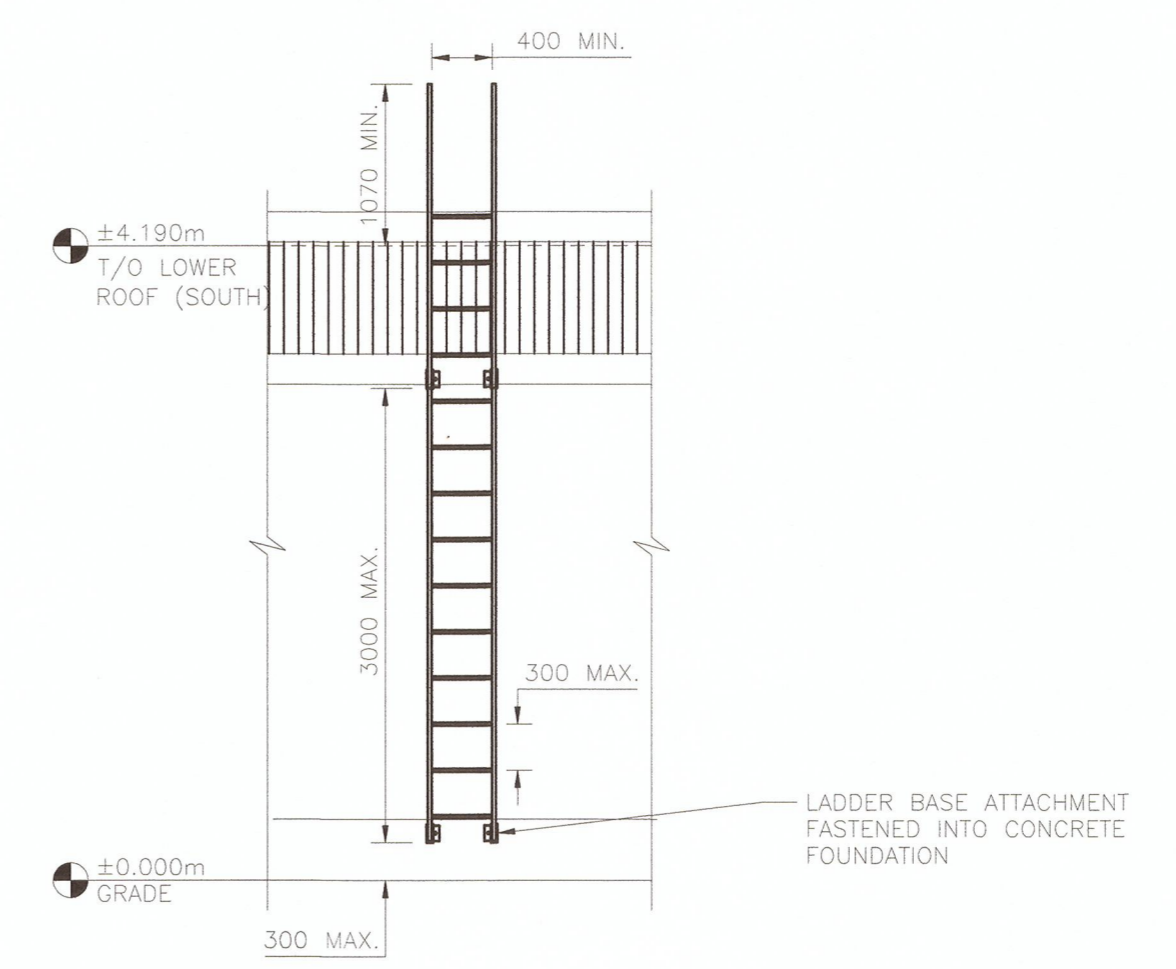


7 FRAMING ATTACHMENT DETAIL - SECTION
SCALE: 1:5

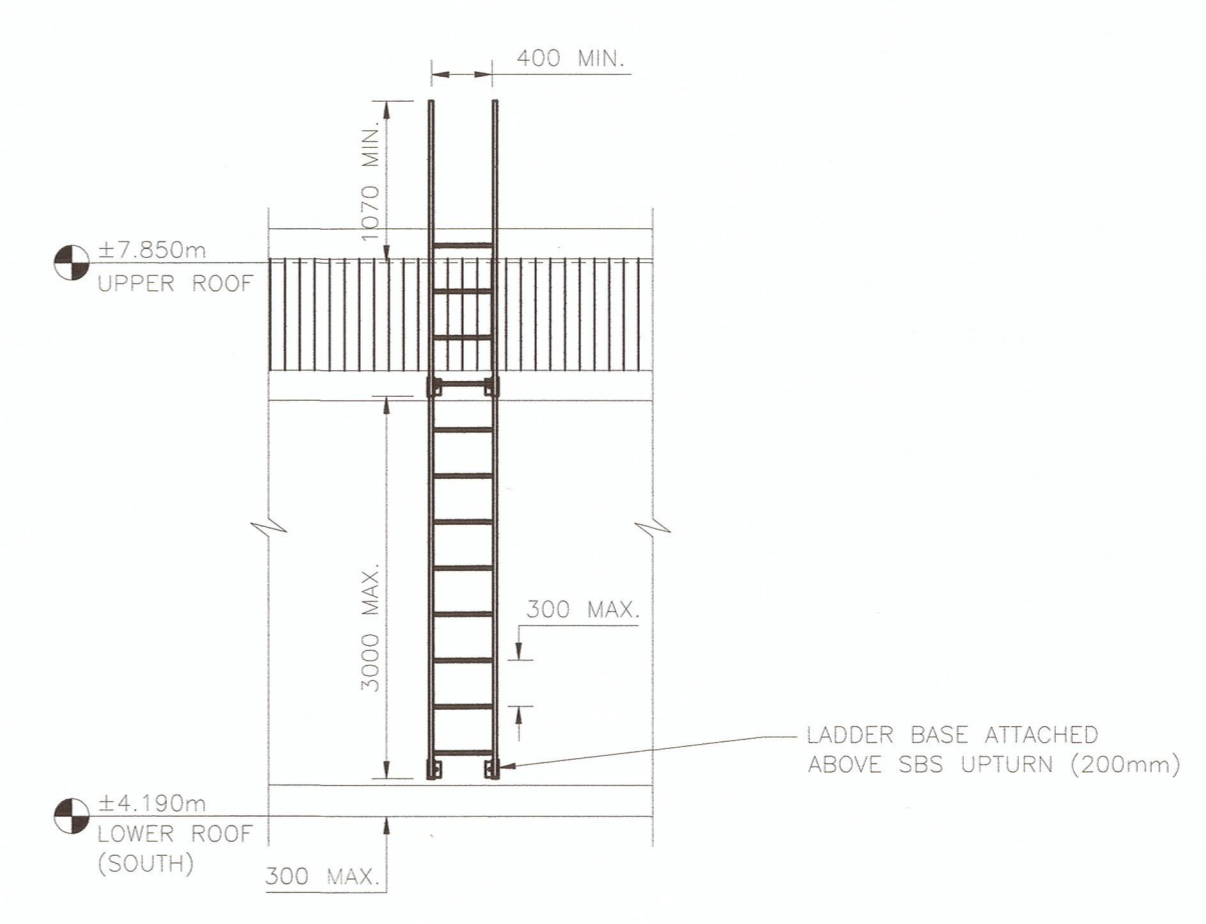


8 GUARDRAIL BLOCKING DETAIL - PLAN
SCALE: 1:5

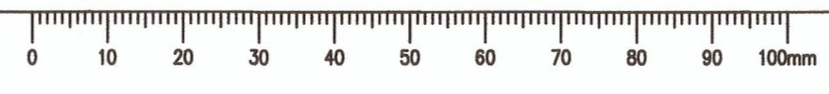
- GUARDRAIL NOTES:**
1. TOP RAIL IS LOCATED 1070mm ABOVE FINISHED ROOF SURFACE
 2. MID RAIL LOCATED HALFWAY BETWEEN FINISHED ROOF SURFACE AND TOP RAIL
 3. RAILING ENGINEERING, INCLUDING STRUCTURAL UPGRADES TO THE EXISTING STRUCTURE, BY CONTRACTOR.
 4. DESIGN THE GUARDRAIL TO MEET THE REQUIREMENTS OF THE BRITISH COLUMBIA BUILDING CODE (BCBC)
 5. THE FASTENERS FOR THE FACE MOUNTED RAILINGS MUST BE LOCATED A MINIMUM OF 90mm FROM THE ROOF SIDE SURFACE.
 6. ALL GUARDRAILS ARE AS VIEWED FROM THE ROOF (INTERIOR)
 7. RAILINGS ARE TO BE PREFINISHED YELLOW IN COLOUR-HDG
 8. CONTRACTOR TO CONFIRM MEASUREMENTS PRIOR TO ORDERING.
 9. SUBMIT SHOP DRAWINGS FOR REVIEW BY CONSULTANT.

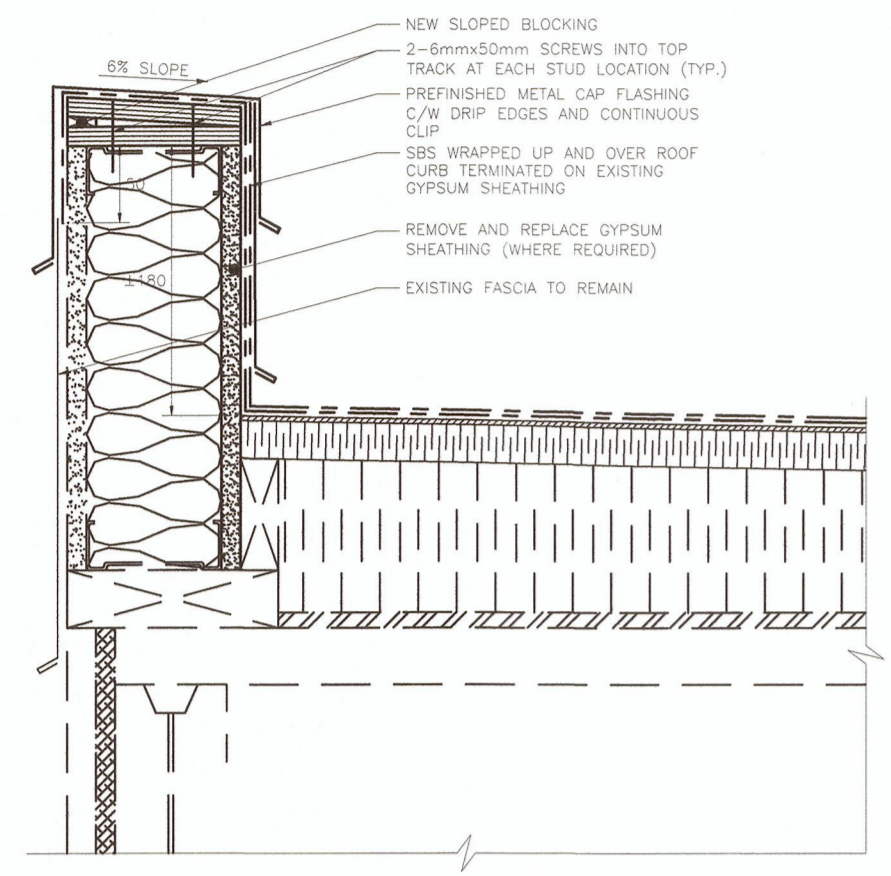


9 LOWER ROOF ACCESS LADDER ELEVATION
SCALE: 1:50

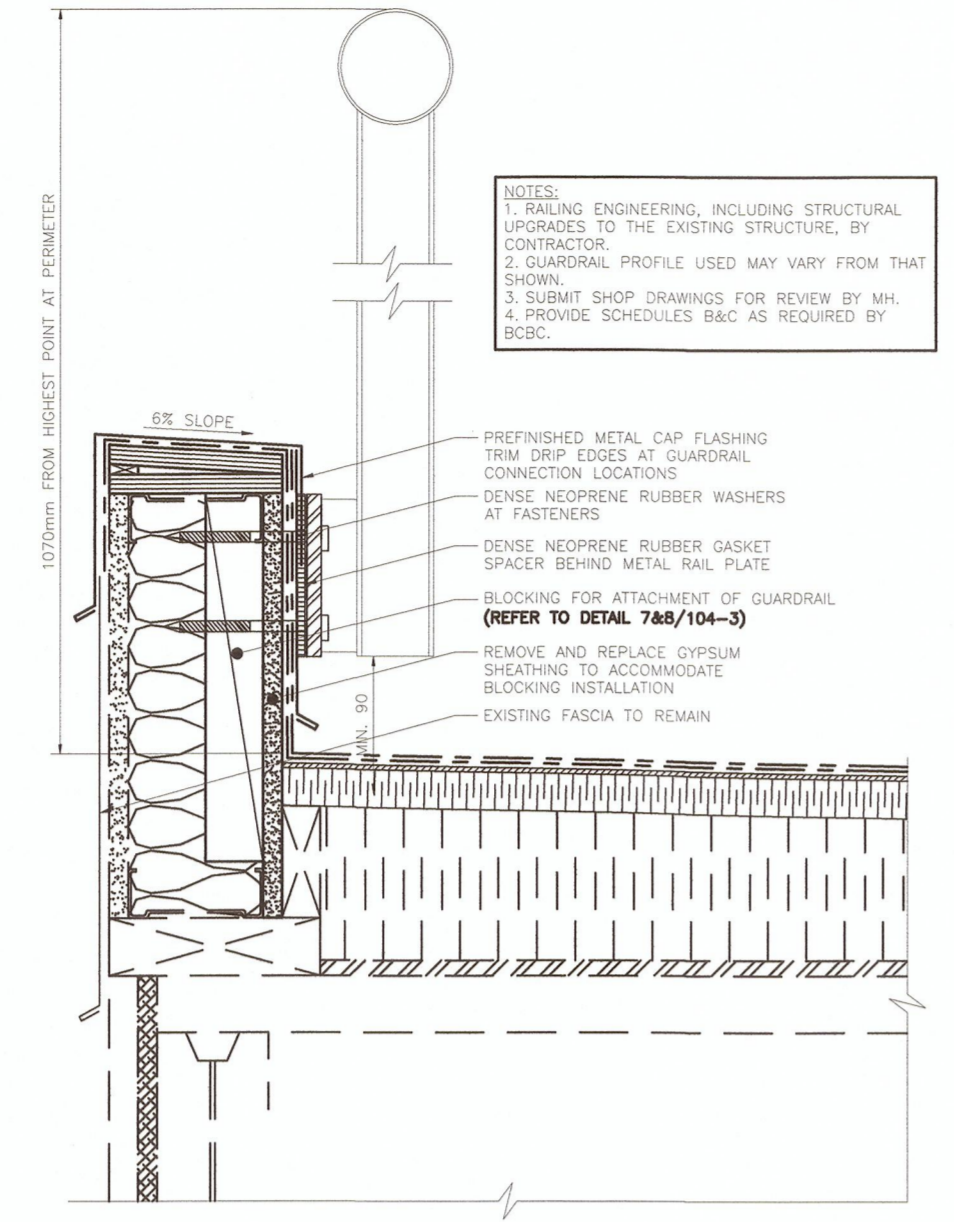


10 UPPER ROOF ACCESS LADDER ELEVATION
SCALE: 1:50

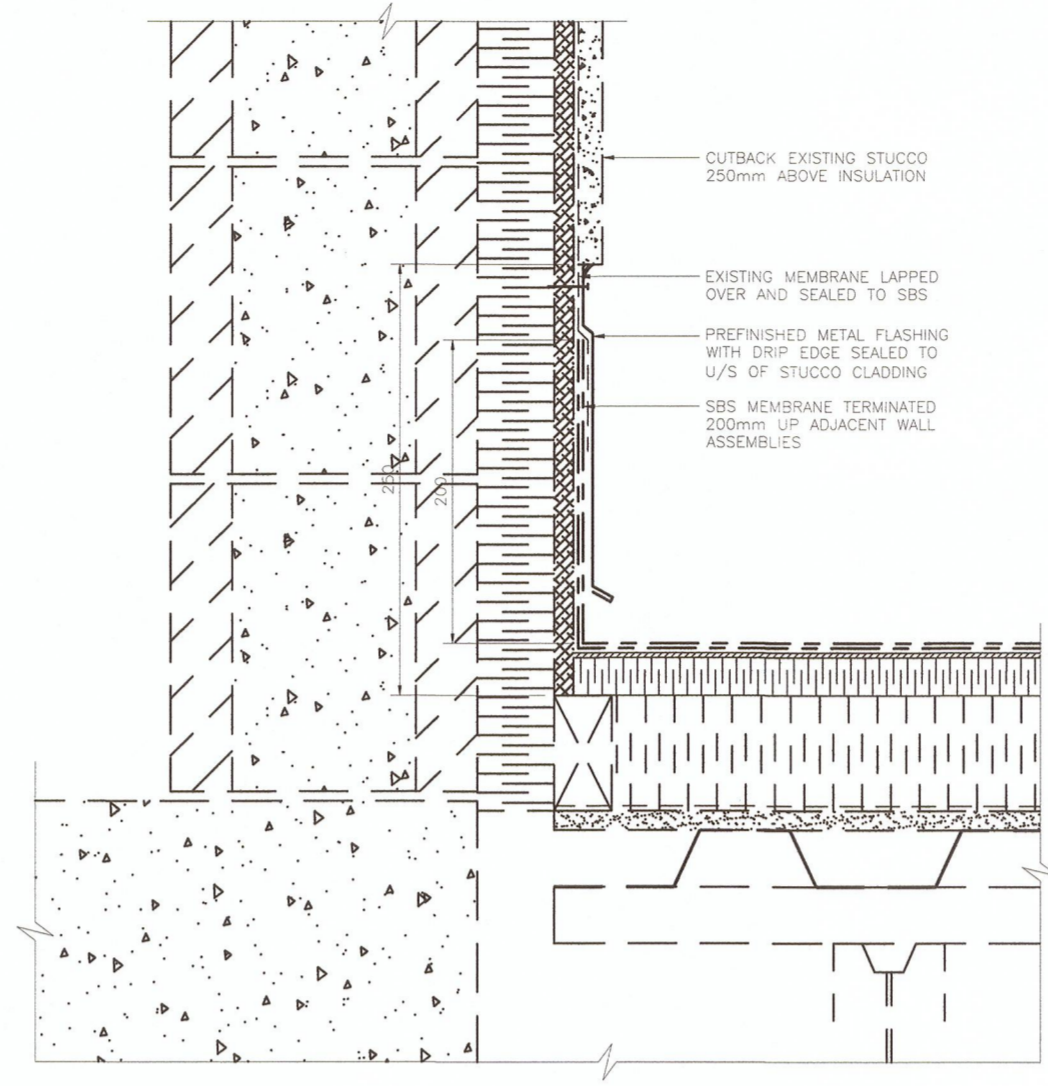




1 TYPICAL ROOF EDGE DETAIL SCALE: 1:5



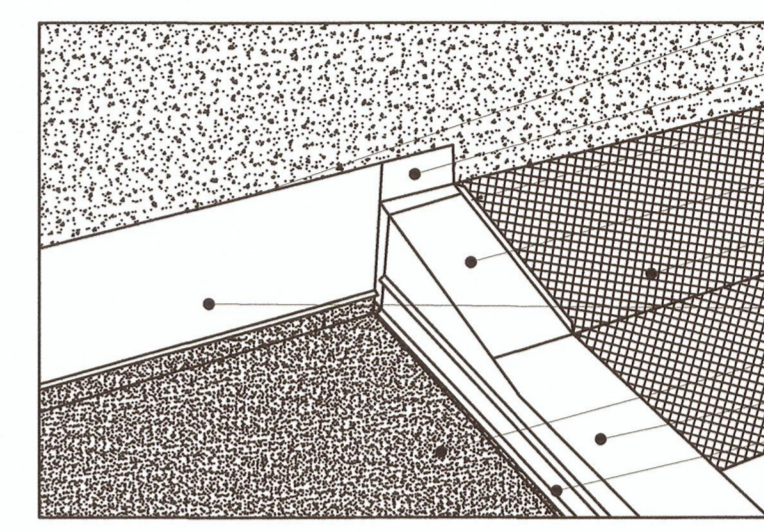
2 ROOF EDGE WITH GUARDRAIL DETAIL SCALE: 1:5



3 BASE OF WALL DETAIL SCALE: 1:5



4a EXISTING FLAT TO SLOPED ROOF PHOTO SCALE: N.T.S.

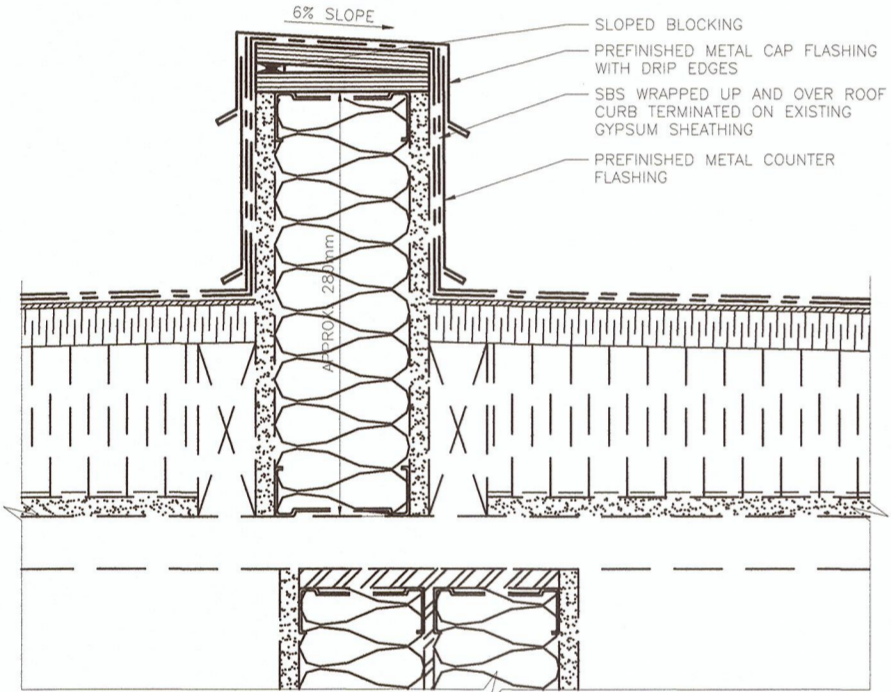


4b FLAT TO SLOPED ROOF ISOMETRIC SCALE: N.T.S.

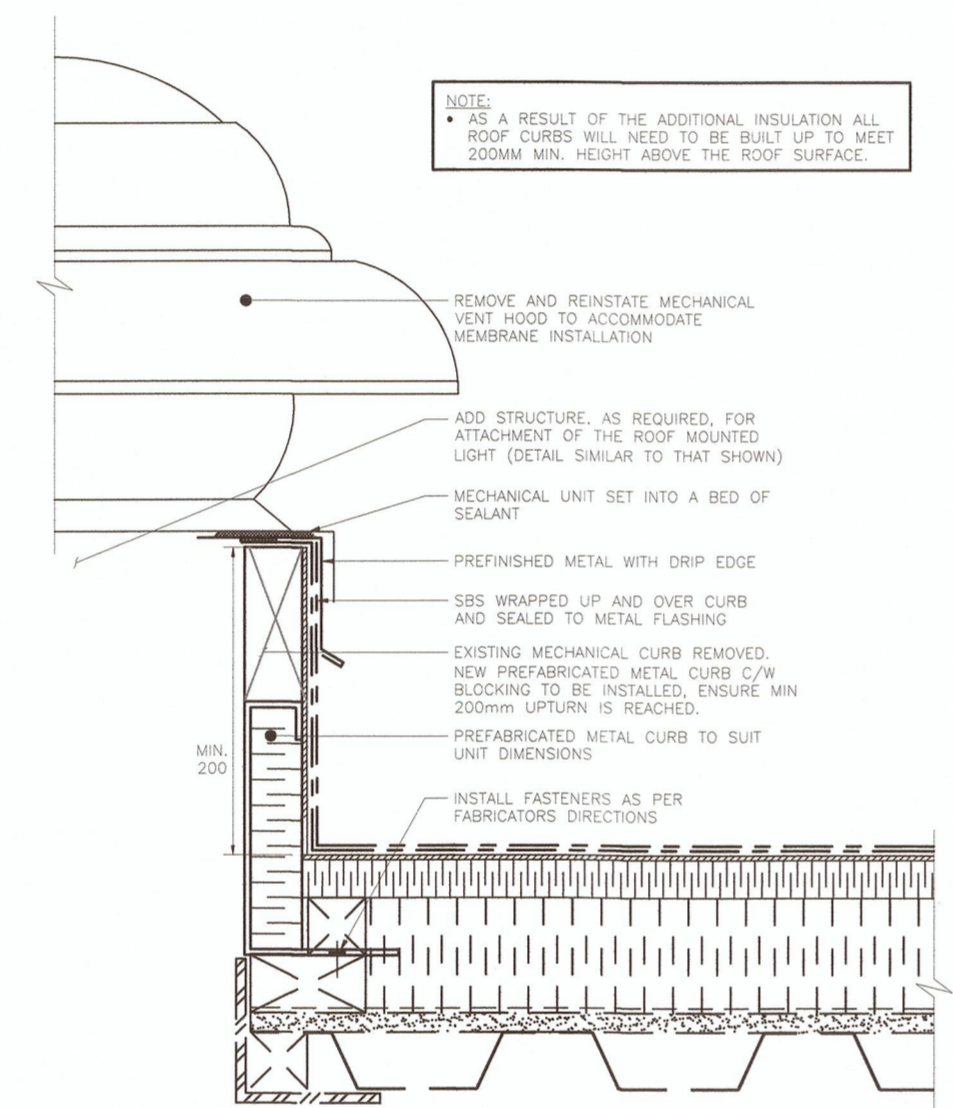
EXISTING METAL PANEL TO BE RETAINED
EXISTING METAL FLASHING TO BE REMOVED AND REPLACED
REDO STANDING SEAM JOINT BETWEEN REPLACED AND RETAINED METAL FLASHING PANELS

EXISTING STUCCO CLADDING CUT 1'0" ABOVE ROOF SURFACE
NEW PREFINISHED METAL FLASHING WITH HEMMED EDGE AT TRANSITION
NEW STANDING SEAM JOINT BETWEEN EXISTING AND NEW METAL FLASHING
NEW PREFINISHED METAL FLASHING WITH DRIP EDGE AND S-LOCK
EXISTING METAL PANEL TO REMAIN
NEW PREFINISHED METAL FLASHING WITH DRIP EDGE
NEW 2-PLY SBS ROOF MEMBRANE
NEW PREFINISHED METAL CAP FLASHING
NEW PREFINISHED METAL COUNTER FLASHING

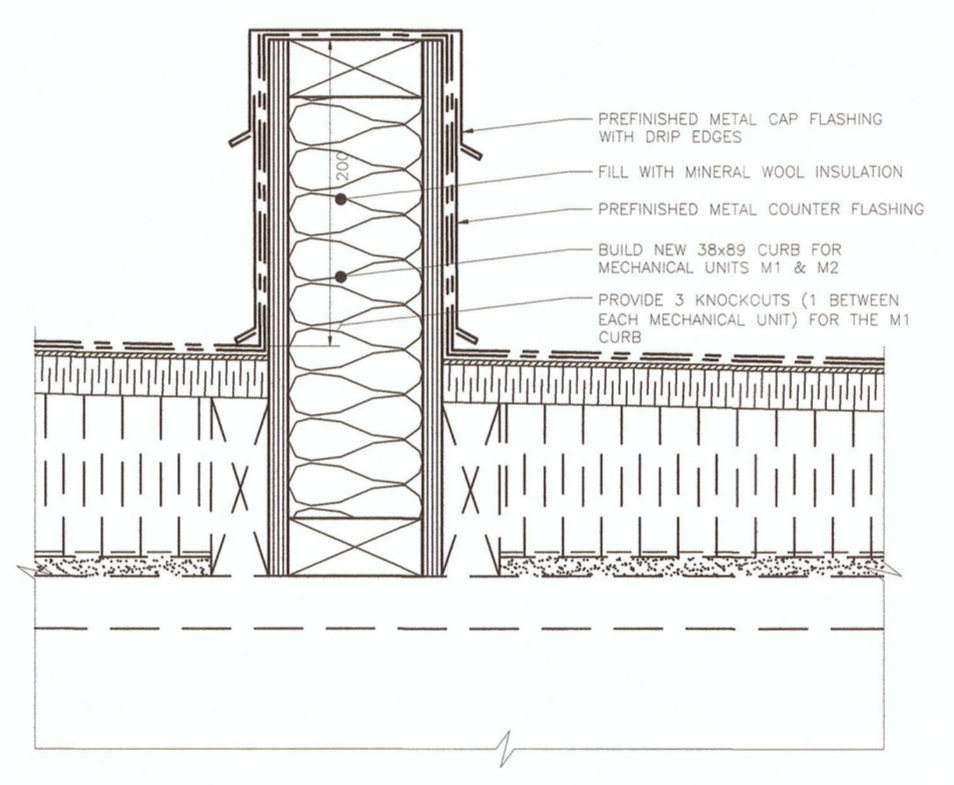
NOTE: SBS MEMBRANE IS WRAPPED ONTO EXISTING SLOPED ROOF MEMBRANE. ALKAN LIQUID MEMBRANE FLASHING IS TO BE USED AT MEMBRANE TRANSITION



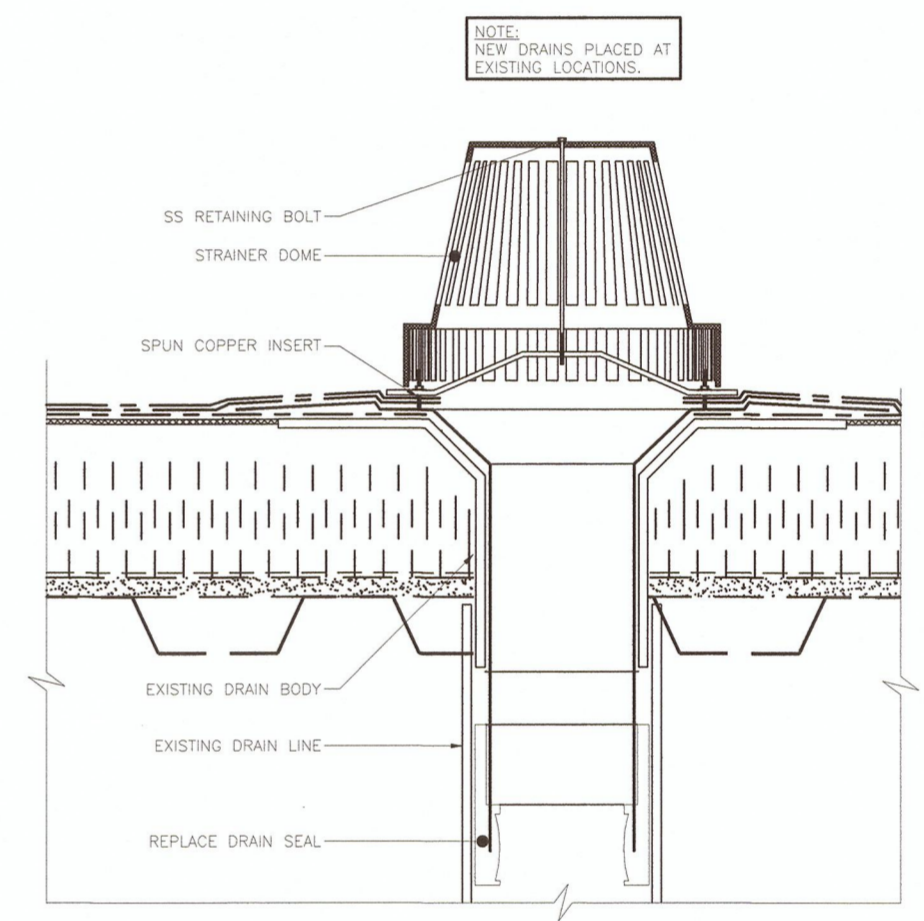
5 LOWER ROOF TRANSITION CURB SCALE: 1:5



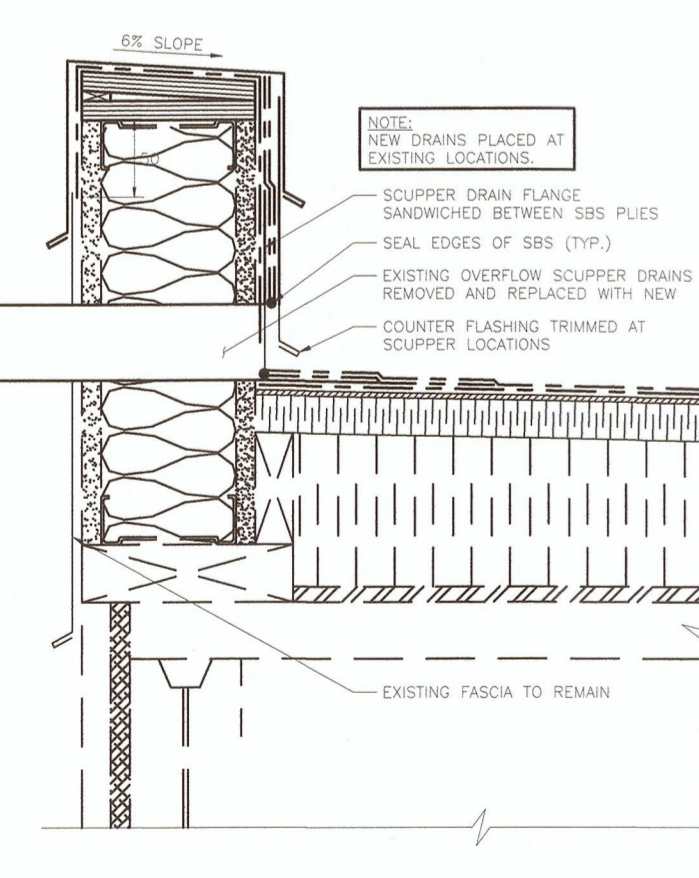
6 MECHANICAL CURB DETAIL SCALE: 1:5



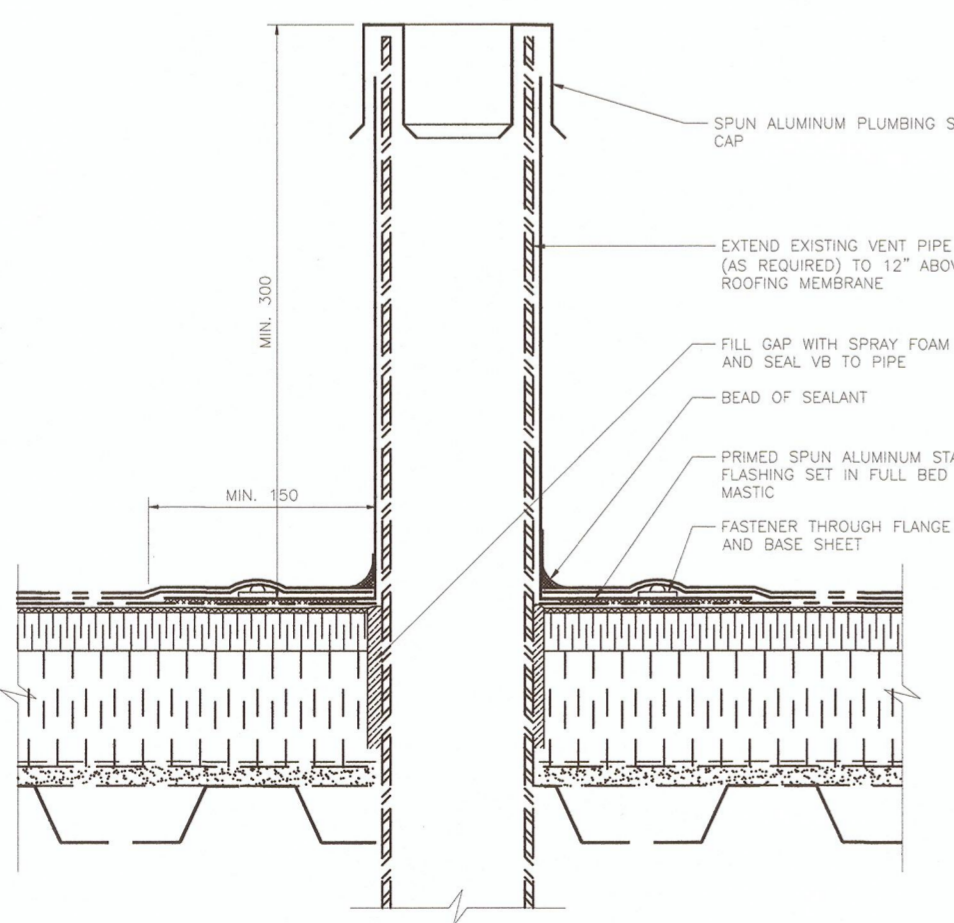
7 SLEEPER FOR MECHANICAL UNIT DETAIL SCALE: 1:5



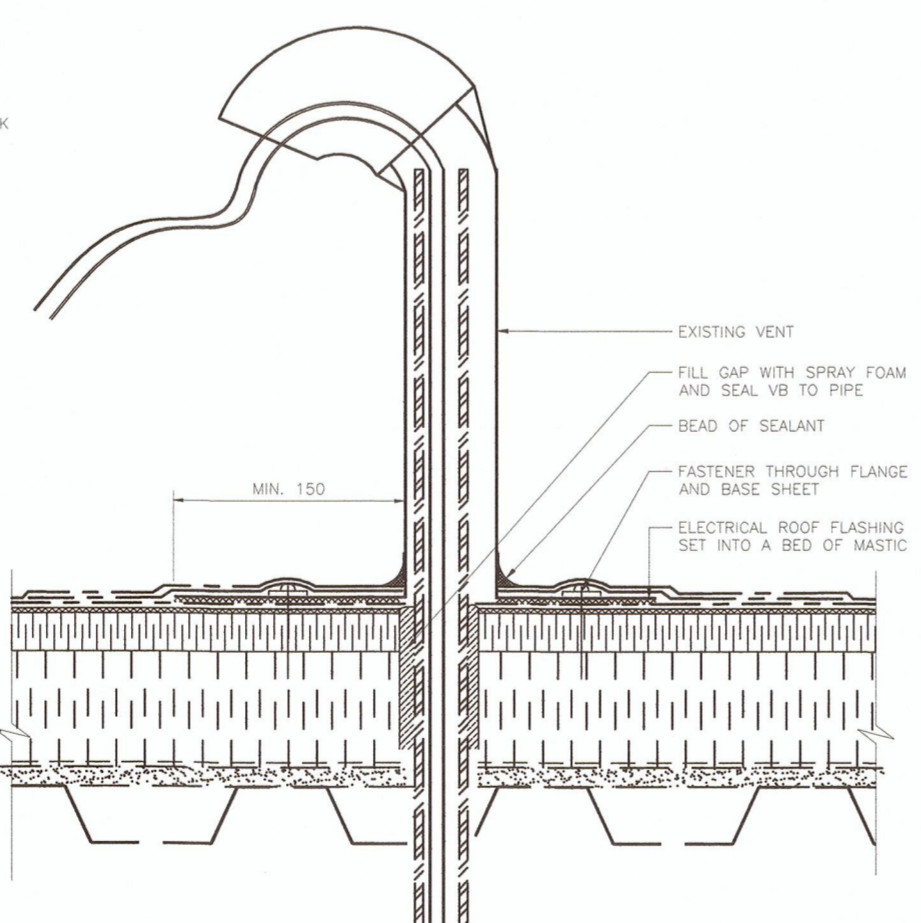
8 INTERNAL DRAIN DETAIL SCALE: 1:5



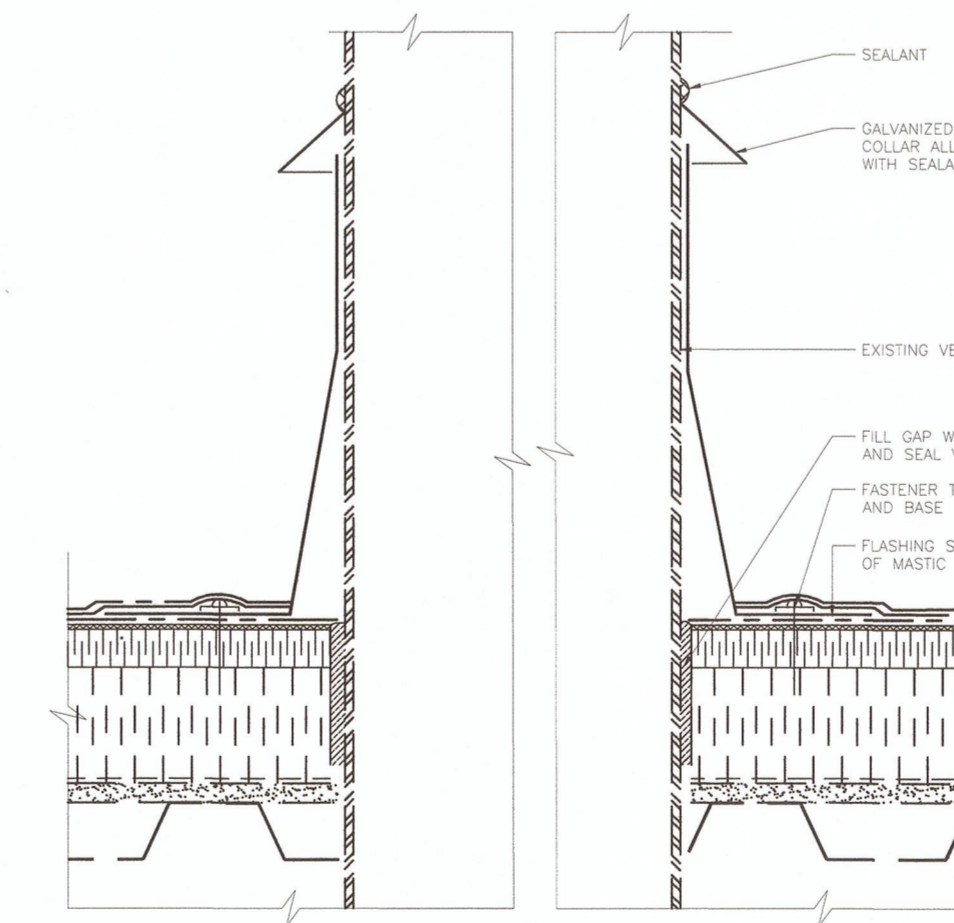
9 OVERFLOW SCUPPER DETAIL SCALE: 1:5



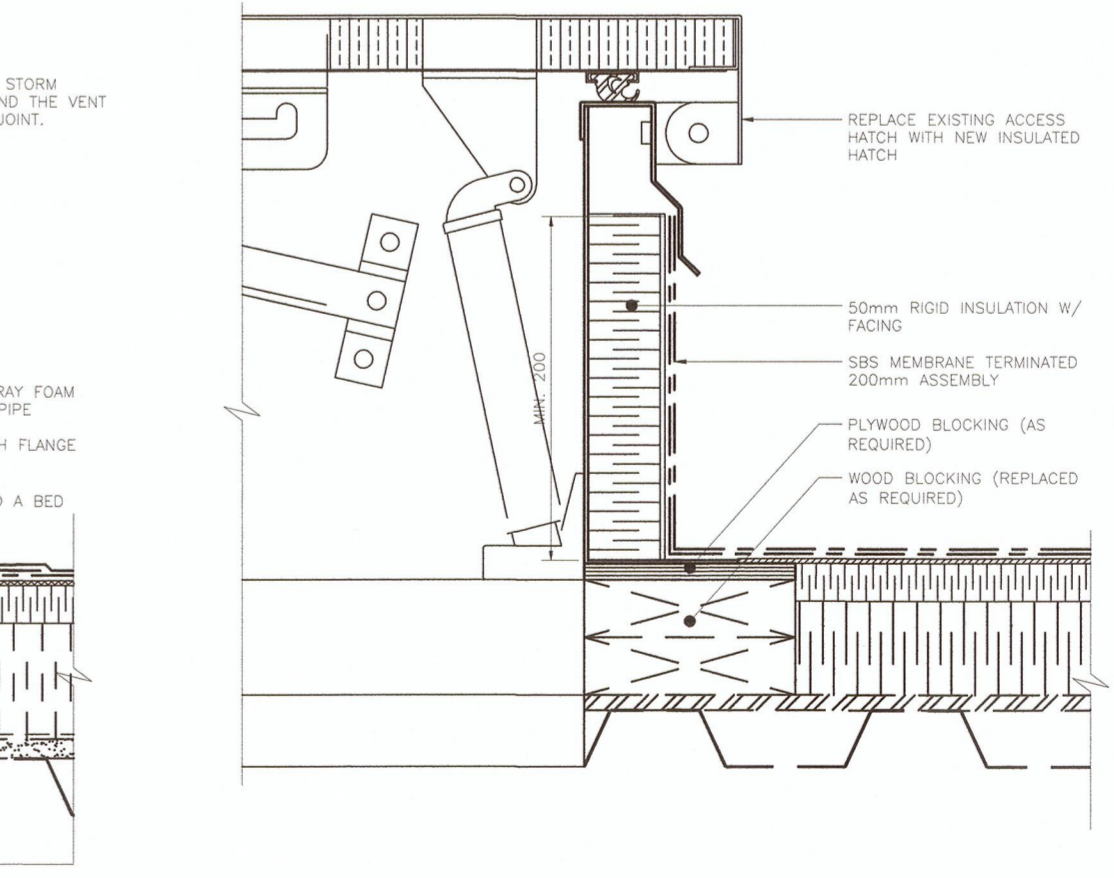
10 PLUMBING VENT STACK DETAIL SCALE: 1:5



11 WIRE PENETRATION DETAIL SCALE: 1:5



12 CHIMNEY DETAIL SCALE: 1:5



13 ROOF ACCESS HATCH SCALE: 1:5

0	ISSUED FOR TENDER	2016/05/25
Revision/	Description/Description	Date/Date

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**METCHOSIN, BC
6000 WILLIAM HEAD ROAD**

**WILLIAM HEAD INSTITUTION
ROOFING PROJECT**

Consultant Signature Box Only

Designed by/Concept par
Jay Jirka

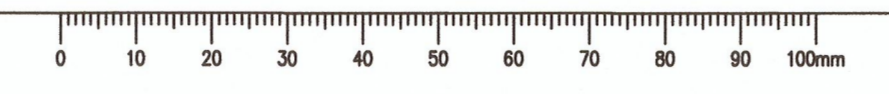
Drawn by/Dessine par
Byron McElgunn

PWGSC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

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

Drawing title/Titre du dessin
**BUILDING 104 - PRINCIPAL ENTRANCE
ROOF DETAILS**

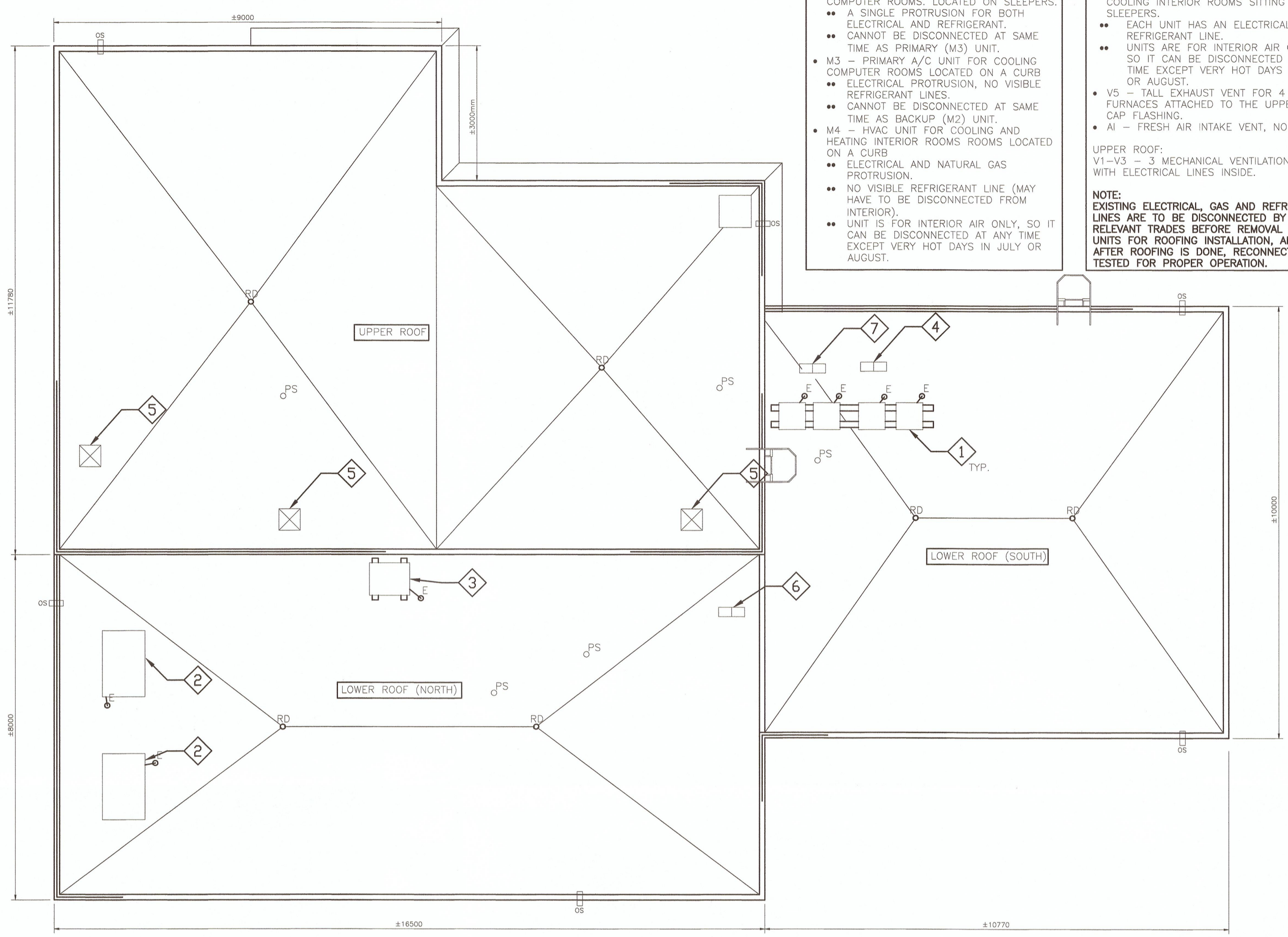
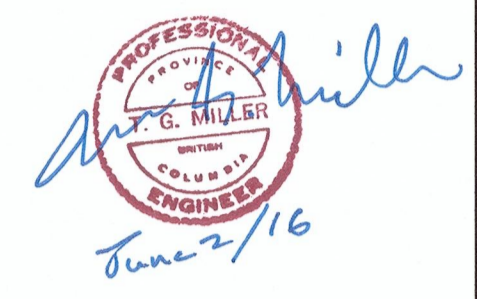
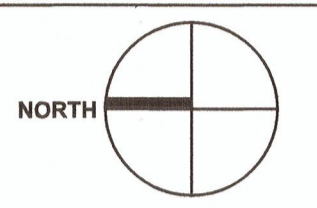
Project No./No. du projet R.079716.001	Sheet/Feuille 104-4 OF	Revision no./ La Révision no. 7
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Prime consultant/premier consultant



MH PROJECT NUMBER: 5160055.00



MECHANICAL NOTES:
LOWER NORTH ROOF:
 • M2 - BACKUP A/C UNIT FOR COOLING COMPUTER ROOMS. LOCATED ON SLEEPERS.
 • A SINGLE PROTRUSION FOR BOTH ELECTRICAL AND REFRIGERANT.
 • CANNOT BE DISCONNECTED AT SAME TIME AS PRIMARY (M3) UNIT.
 • M3 - PRIMARY A/C UNIT FOR COOLING COMPUTER ROOMS LOCATED ON A CURB.
 • ELECTRICAL PROTRUSION, NO VISIBLE REFRIGERANT LINES.
 • CANNOT BE DISCONNECTED AT SAME TIME AS BACKUP (M2) UNIT.
 • M4 - HVAC UNIT FOR COOLING AND HEATING INTERIOR ROOMS LOCATED ON A CURB.
 • ELECTRICAL AND NATURAL GAS PROTRUSION.
 • NO VISIBLE REFRIGERANT LINE (MAY HAVE TO BE DISCONNECTED FROM INTERIOR).
 • UNIT IS FOR INTERIOR AIR ONLY, SO IT CAN BE DISCONNECTED AT ANY TIME EXCEPT VERY HOT DAYS IN JULY OR AUGUST.

MECHANICAL NOTES: (CONT'D)
LOWER SOUTH ROOF:
 • M1 CONSISTS OF 4 HVAC UNITS FOR COOLING INTERIOR ROOMS SITTING ON SLEEPERS.
 • EACH UNIT HAS AN ELECTRICAL AND REFRIGERANT LINE.
 • UNITS ARE FOR INTERIOR AIR ONLY, SO IT CAN BE DISCONNECTED AT ANY TIME EXCEPT VERY HOT DAYS IN JULY OR AUGUST.
 • V5 - TALL EXHAUST VENT FOR 4 FURNACES ATTACHED TO THE UPPER ROOF CAP FLASHING.
 • AI - FRESH AIR INTAKE VENT, NO LINES.

UPPER ROOF:
 V1-V3 - 3 MECHANICAL VENTILATION FANS WITH ELECTRICAL LINES INSIDE.

NOTE:
 EXISTING ELECTRICAL, GAS AND REFRIGERANT LINES ARE TO BE DISCONNECTED BY RELEVANT TRADES BEFORE REMOVAL OF THE UNITS FOR ROOFING INSTALLATION, AND AFTER ROOFING IS DONE, RECONNECTED AND TESTED FOR PROPER OPERATION.

1 ROOF PLAN
 104-M1 SCALE: 1:75

GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE DONE BY AN ELECTRICIAN WITH A TRADE QUALIFICATION VALID IN BC.
- POWER SUPPLY TO ELECTRICAL EQUIPMENT ON THE ROOF SHALL BE LOCKED OUR PRIOR TO DISCONNECTION.
- ALL WORK ON GAS SUPPLY PIPING SHALL BE DONE BY A GAS FITTER LICENCED IN BC.
- REFER TO SPECIFICATIONS 23 73 12 - HALOCARBON MANAGEMENT
- DISCONNECTION AND RE-CONNECTION OF REFRIGERATION PIPING SHALL BE DONE BY REFRIGERATION MECHANIC WITH A TRADE QUALIFICATION VALID IN BC.
- SHEET METAL WORK SHALL BE DONE BY A QUALIFIED SHEET METAL TRADESMAN TO SMACNA STANDARDS. RE-ASSEMBLY OF DUCTWORK SHALL INCLUDE RE-SEALING OF JOINTS WITH APPROVED OUTDOOR DUCT SEALANT.
- REFER TO HAZMAT REPORT IF AVAILABLE TO CONFIRM PRESENCE OF HAZARDOUS MATERIALS ON ROOF AND MECHANICAL EQUIPMENT. MECHANICAL EQUIPMENT TO BE HANDLED AS PER HAZMAT REGULATIONS IF HAZARDOUS MATERIALS ARE PRESENT.
- ALL RE-INSTALLED AND NEW MECHANICAL/ELECTRICAL EQUIPMENT SHALL BE APPROPRIATELY ANCHORED/RESTRAINED. DESIGN AND FIELD REVIEW SHALL BE COMPLETED BY A QUALIFIED SEISMIC ENGINEER. LETTERS OF ASSURANCE SHALL BE SUBMITTED.
- PRIOR TO COMMENCEMENT OF WORK, CONFIRM OPERATION OF ALL MECHANICAL EQUIPMENT ON THE ROOF AND REPORT ANY DEFICIENCIES TO THE DEPARTMENTAL REPRESENTATIVE. UPON REINSTALLATION, EQUIPMENT SHALL BE TESTED/COMMISSIONED TO ENSURE OPERATIONAL.
- EQUIPMENT LISTED SHALL BE EITHER REMOVED FROM THE ROOF OR AS A MINIMUM LIFTED AND TEMPORARILY SUPPORTED SO AS TO PROVIDE ADEQUATE CLEARANCE FOR ROOFING AND FLASHING WORK TO BE COMPLETED.
- MECHANICAL ITEMS THAT ARE TO BE RE-INSTALLED SHALL BE REMOVED, STORED AND RE-INSTALLED WITH DUE CARE AS NECESSARY TO PREVENT ANY DAMAGE.

LEGEND

EXHAUST FAN	A/C OR AIR HANDLING UNIT
AIR VENT	PLUMBING STACK
EXISTING CAP FLASHING	ROOF DRAIN
GUARDRAIL	OVERFLOW SCUPPER
ELECTRICAL PENETRATION	GUTTER

READER NO.	PHOTO	DETAILS	COMMENTS
1		CONDENSING UNITS (TYPICAL OF 4)	<ul style="list-style-type: none"> NOTE: THESE UNITS ARE FOR COOLING THE INTERIOR SPACES. THESE UNITS CAN BE DISCONNECTED ANYTIME EXCLUDING THE MONTHS OF JULY AND AUGUST. ISOLATE COMPRESSOR CIRCUITS IN CONDENSING UNIT AND DISCONNECT REFRIGERANT PIPING AND POWER WIRING. REMOVE HOLD DOWN BOLTS AND REMOVE OR LIFT UNIT FROM ROOF CURBS. RE-INSTALL CONDENSING UNIT ON ROOF CURBS AND RE-CONNECT POWER AND REFRIGERANT LINES AFTER ROOFING WORK IS COMPLETED.
2		ROOFTOP PACKAGED UNIT (TYPICAL OF 2)	<ul style="list-style-type: none"> NOTE: AHU-102 (THE EASTERN ROOFTOP UNIT) IS THE PRIMARY COOLING UNIT FOR THE COMPUTER ROOMS. THIS CANNOT BE DISCONNECTED AT THE SAME TIME AS ITEM 3 BELOW (BACK-UP CONDENSING UNIT FOR COMPUTER ROOMS). NOTE: AHU-101 (THE WESTERN ROOFTOP UNIT) IS FOR COOLING THE INTERIOR SPACES. THIS UNIT CAN BE DISCONNECTED ANYTIME EXCLUDING THE MONTHS OF JULY AND AUGUST. DISCONNECT POWER SUPPLY TO ROOF TOP UNIT, SHUT OFF GAS AND DISCONNECT GAS PIPING. REMOVE FASTENERS AND LIFT UNIT AND BASE FRAME FROM EXISTING CURB HIGH ENOUGH TO ALLOW ROOFING WORK TO PROCEED. PROVIDE TEMPORARY COVER OVER ROOF OPENINGS. REPLACE EXISTING CURB WITH NEW PRE-FAB CURB. MAINTAIN SIZE OF EXISTING CONCRETE ROOF PENETRATION. INSTALL NEW DUCT TRANSITIONS AS/IF REQUIRED AND ADJUST GAS AND REFRIGERANT PIPING TO ALLOW FOR NEW CURB. RE-INSTALL UNIT ON NEW CURB AND RE-CONNECT POWER AND GAS AFTER ROOFING WORK IS COMPLETED.
3		CONDENSING UNIT	<ul style="list-style-type: none"> THIS UNIT IS THE BACK-UP COOLING UNIT FOR THE COMPUTER ROOMS. THIS CANNOT BE DISCONNECTED AT THE SAME TIME AS ITEM 2 (EASTERN UNIT) ABOVE (PRIMARY COOLING UNIT FOR COMPUTER ROOMS). ISOLATE COMPRESSOR CIRCUITS IN CONDENSING UNIT AND DISCONNECT REFRIGERANT PIPING AND POWER WIRING. REMOVE HOLD DOWN BOLTS AND REMOVE OR LIFT UNIT FROM ROOF CURBS. RE-INSTALL CONDENSING UNIT ON ROOF CURBS AND RE-CONNECT POWER AND REFRIGERANT LINES AFTER ROOFING WORK IS COMPLETED.
4		AIR VENT	<ul style="list-style-type: none"> DISCONNECT AND REMOVE COVERED AIR VENT FROM FLASHED CURB. REMOVE EXISTING ROOF CURB. COVER OPENING DURING ROOFING WORK. RE-INSTALL VENT ON NEW PRE-FAB ROOF CURB AFTER NEW ROOF IS COMPLETED.
5		DOWNBLAST EXHAUST FAN (TYPICAL OF 3)	<ul style="list-style-type: none"> DISCONNECT POWER SUPPLY WIRING AND REMOVE EXHAUST FAN FROM CURB. COVER OPENING DURING ROOFING WORK. RE-INSTALL FAN AND BASE ON NEW PRE-FAB ROOF CURB AND RE-CONNECT POWER AFTER NEW ROOF IS COMPLETED.
6		GOOSENECK INTAKE	<ul style="list-style-type: none"> DISCONNECT AND REMOVE GOOSENECK INTAKE FROM FLASHED CURB. REMOVE EXISTING ROOF CURB. COVER OPENING DURING ROOFING WORK. RE-INSTALL GOOSENECK ON NEW PRE-FAB ROOF CURB AFTER NEW ROOF IS COMPLETED.
7		FURNACE CHIMNEY	<ul style="list-style-type: none"> DISCONNECT, REMOVE AND SUPPORT CHIMNEY ABOVE FLASHED CURB. REMOVE EXISTING ROOF CURB. COVER OPENING DURING ROOFING WORK. RE-INSTALL CHIMNEY ON NEW PRE-FAB ROOF CURB AFTER NEW ROOF IS COMPLETED.

0	ISSUED FOR TENDER	2016/05/25
Revision/Revision	Description/Description	Date/Date

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**METCHOSIN, BC
 6000 WILIAM HEAD ROAD**

**WILLIAM HEAD INSTITUTION
 ROOFING PROJECT**

Consultant Signature Box Only

Designed by/Concept par
Jay Jirka

Drawn by/Dessine par
Byron McElgunn

PWGSC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

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

Drawing title/Titre du dessin
**BUILDING 104 - PRINCIPAL ENTRANCE
 ROOF PLAN
 MECHANICAL DRAWING**

Project No./No. du projet R.079716.001	Sheet/Feuille 104-M1	Revision no./La Révision no. 7
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WILLIAM HEAD INSTITUTION ROOFING PROJECT

PROJECT NUMBER: R.079717.001

BUILDING 105 - VOCATION TRAINING SHOPS

Prime consultant/premier consultant



MH PROJECT NUMBER: 5160055.00



Drawing List:

105-0	COVER PAGE, GENERAL NOTES, LEGENDS AND ASSEMBLIES
105-1	DEMOLITION PLAN
105-2	ROOF PLAN
105-3	ROOF DETAILS
105-M1	ROOF PLAN MECHANICAL DRAWINGS

Symbols Legend:

DETAIL REF. DETAIL NUMBER
DRAWING NUMBER WHERE DETAIL IS LOCATED

SECTION REF. SECTION DETAIL NUMBER
DRAWING NUMBER WHERE DETAIL IS LOCATED

DRAWING REFERENCE DRAWING NUMBER
SCALE: SCALE
DRAWING NUMBER WHERE DETAIL IS REFERENCED

ASSEMBLY TYPE REFERENCE ASSEMBLY TYPE DESIGNATION

REVISION TAG REVISION NUMBER

REVISION CLOUD DENOTES THE AREA WITHIN THE CLOUD BOUNDARIES CONTAINING THE MOST RECENT REVISION(S) MADE TO THAT DRAWING

Abbreviations List:

A/M	AIR/MOISTURE BARRIER
C/W	COMPLETE WITH DRAWING
DWG.	EXISTING
EXIST.	EXISTING
GWB	GYPSPUM WALL BOARD
MIN.	MINIMUM
N.I.C.	NOT IN CONTRACT
O.C.	ON CENTRE
PT	PRESSURE TREATED
REV.	REVERSED
RE&RE	REMOVE & REINSTALL
R.O.	ROUGH OPENING
RWL	RAINWATER LEADER
SAM	SELF ADHESIVE MEMBRANE
S.M.	SHEATHING MEMBRANE
SIM.	SIMILAR
S.O.G.	SLAB-ON-GRADE
T&G	TONGUE & GROOVE
T.B.C.	TO BE CONFIRMED
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
ADD.	ADDENDUM

General Notes:

- 0.00 APPLICABLE CODES:
NATIONAL BUILDING CODE 2010
NATIONAL ENERGY CODE CANADA FOR BUILDINGS 2011
- 0.01 DRAWINGS ARE TO BE READ IN CONJUNCTION WITH WRITTEN SCOPE OF WORK.
- 0.02 DO NOT SCALE DRAWINGS. CONTRACTOR IS TO VERIFY DIMENSIONS ON SITE.
- 0.03 DRAINS ARE SHOWN AT APPROXIMATE LOCATIONS. CONTRACTOR TO CONFIRM EXACT LOCATIONS ON-SITE.
- 0.04 FORM FLASHING TO MAINTAIN MINIMUM 6% SLOPE, UNLESS OTHERWISE NOTED.
- 0.05 ALL TERMINATIONS IN METAL FLASHING TO HAVE FOLDED END DAMS OR WATERTIGHT SADDLES. FLASHING DOWNTURN LEG TO OVER CLADDING MINIMUM 50mm UNLESS OTHERWISE NOTED. ALL JOINTS TO BE S-LOCK OR STANDING SEAM. ALL FLASHING EDGES TO BE HEMMED.
- 0.06 CONTRACTOR TO CONFIRM SLOPE OF FLAT ROOFS AND ADVISE CONSULTANT BEFORE PROCEEDING WITH MEMBRANE INSTALLATION.
- 0.07 CONTRACTOR TO CONFIRM EXACT NUMBER, SIZE AND LOCATION OF ALL PENETRATIONS AND ANY OTHER EQUIPMENT ON THE ROOF.
- 0.08 INSTALL MEMBRANE IN ACCORDANCE WITH RCBC REQUIREMENTS AND MANUFACTURER'S SPECIFICATIONS.
- 0.09 IF ANY DISCREPANCIES IN THE DOCUMENTS ARE FOUND, REQUEST THE CONSULTANT TO CLARIFY THE DISCREPANCIES PRIOR TO COMMENCING ANY RELATED WORK.
- 0.10 NOTIFY THE CONSULTANT IMMEDIATELY AND REQUEST A REVIEW IF ANY DAMAGE OF EXISTING AREAS OUTSIDE THE CONTRACT IS DISCOVERED. DO NOT COMMENCE ANY RELATED OR NEARBY WORK WITHOUT CONSULTANTS APPROVAL.
- 0.11 PROTECT NEW ROOFING MEMBRANE FROM TRAFFIC AND WORK.

Assemblies List (cont'd):

R2 WELDING SHOP ROOF ASSEMBLY

- NEW 2-PLY SBS MEMBRANE (TORCHED ON)
- NEW PROTECTION BOARD (FULLY ADHERED)
- NEW 1" POLYISO RIGID INSULATION
- EXISTING PLYWOOD SHEATHING (REPLACE AS REQUIRED)
- EXISTING METAL DECK
- EXISTING OWSJ

Detail Linetype Legend:

	SBS MEMBRANE
	EXISTING MEMBRANE
	SELF-ADHESIVE MEMBRANE
	EXISTING COMPONENT
	WARNING STRIP

Hatching Legend:

	RIGID/SEMI-RIGID INSULATION
	BATT INSULATION
	PLYWOOD SHEATHING/DECKING THICKNESS AS SPECIFIED
	EXISTING SHEATHING
	T&G WOOD SHEATHING

Assemblies List:

R0a EXISTING TYPICAL ROOF ASSEMBLY

- 2-PLY SBS MEMBRANE (TO BE REMOVED)
- FIBREBOARD (TO BE REMOVED)
- 75mm POLYISO RIGID INSULATION (TO REMAIN)
- BUILT UP ROOF MEMBRANE (TO REMAIN)
- 38mm POLYISO INSULATION (TO REMAIN)
- VAPOUR BARRIER (TO REMAIN)
- ROOF STRUCTURE (TO REMAIN)

R0b EXISTING WELDING SHOP ROOF ASSEMBLY

- EPDM MEMBRANE (TO BE REMOVED)
- 1" POLYISO RIGID INSULATION (TO REMAIN)
- EXISTING PLYWOOD SHEATHING (TO REMAIN)
- EXISTING METAL DECK (TO REMAIN)
- EXISTING OWSJ (TO REMAIN)

R1 TYPICAL SBS ROOF ASSEMBLY

- NEW 2-PLY SBS MEMBRANE (TORCHED ON)
- NEW PROTECTION BOARD (FULLY ADHERED)
- EXISTING POLYISO RIGID INSULATION (REPLACED AS REQUIRED)
- EXISTING BUILT UP ROOF MEMBRANE
- EXISTING POLYISO RIGID INSULATION
- EXISTING VAPOUR BARRIER
- EXISTING TONGUE AND GROOVE WOOD DECKING
- EXISTING STRUCTURE

Key Plan:

1 WILLIAM HEAD INSTITUTION KEY PLAN
SCALE: N.T.S.



0	ISSUED FOR TENDER	2016/05/25
Revision/Revision	Description/Description	Date/Date

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**METCHOSIN, BC
6000 WILLIAM HEAD ROAD**

WILLIAM HEAD INSTITUTION ROOFING PROJECT

Consultant Signature Box Only

Designed by/Concept par
Jay Jirka

Drawn by/Dessine par
Byron McElgunn

PWGSC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

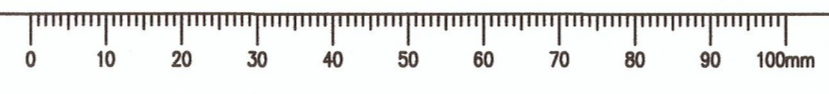
PWGSC, Regional Manager, Architectural and Engineering Services/
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
Preetpal Paul

Drawing title/Titre du dessin
BUILDING 105 - VOCATIONAL TRAINING COVER PAGE

GENERAL NOTES

LEGENDS AND ASSEMBLIES

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CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
METCHOSIN, BC
6000 WILLIAM HEAD ROAD
WILLIAM HEAD INSTITUTION
ROOFING PROJECT

Consultant Signature Box Only

Designed by/Concept par
Jay Jirka

Drawn by/Dessine par
Byron McElgunn

PWGSC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

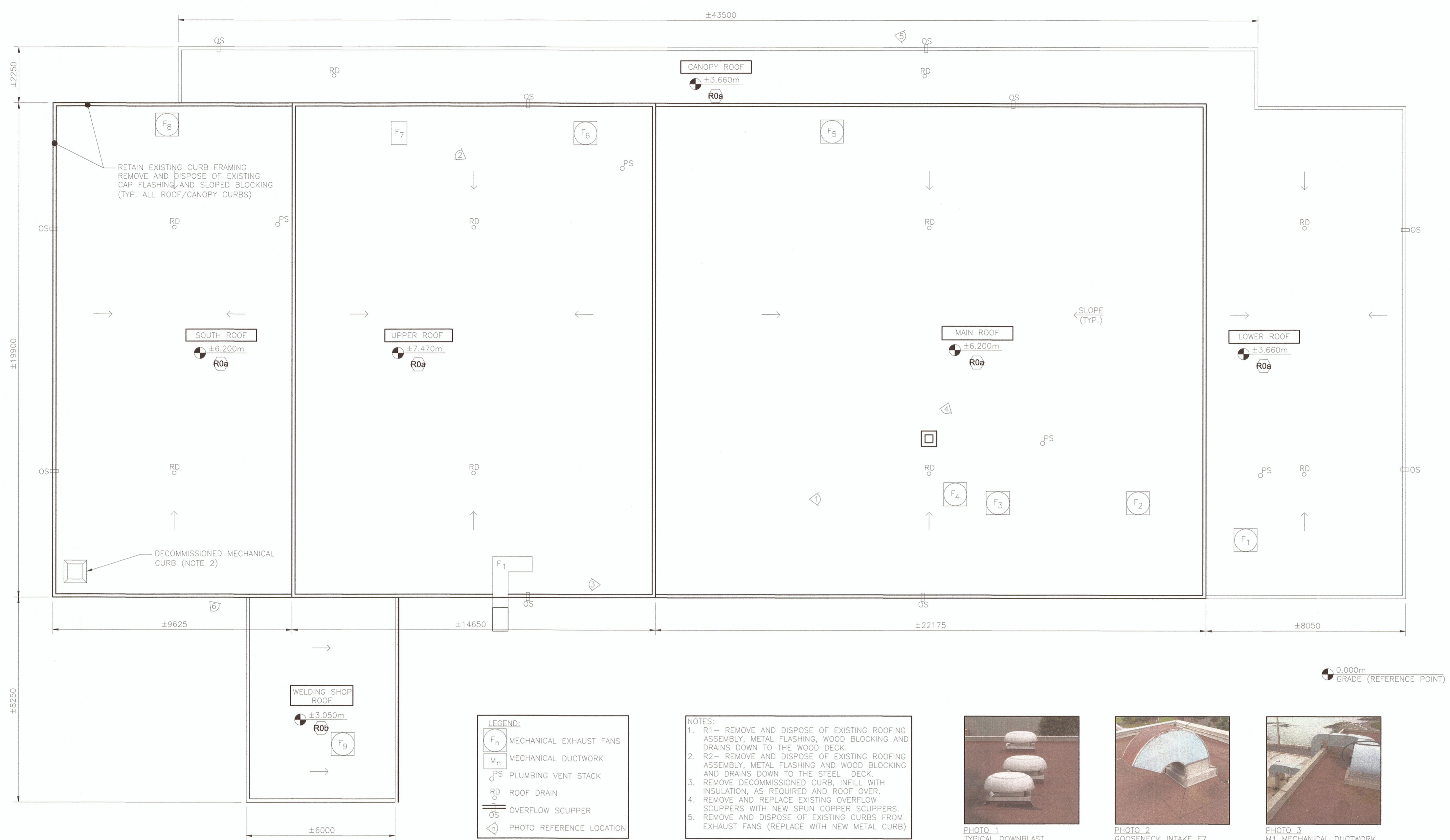
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 Gestionnaire régionale, Services d'architectural et de génie, TPSGC
Preetipal Paul

Drawing title/Titre du dessin
BUILDING 105 - VOCATIONAL TRAINING
DEMOLITION PLAN

Project No./No. du projet
R.079717.001

Sheet/Feuille
105-1
 OF

Revision no./La Révision no.
7



1 ROOF PLAN
 SCALE: 1:100

LEGEND:

	MECHANICAL EXHAUST FANS
	MECHANICAL DUCTWORK
	PLUMBING VENT STACK
	ROOF DRAIN
	OVERFLOW SCUPPER
	PHOTO REFERENCE LOCATION

- NOTES:
- R1 - REMOVE AND DISPOSE OF EXISTING ROOFING ASSEMBLY, METAL FLASHING, WOOD BLOCKING AND DRAINS DOWN TO THE WOOD DECK.
 - R2 - REMOVE AND DISPOSE OF EXISTING ROOFING ASSEMBLY, METAL FLASHING AND WOOD BLOCKING AND DRAINS DOWN TO THE STEEL DECK.
 - REMOVE DECOMMISSIONED CURB, INFILL WITH INSULATION, AS REQUIRED AND ROOF OVER.
 - REMOVE AND REPLACE EXISTING OVERFLOW SCUPPERS WITH NEW SPUN COPPER SCUPPERS.
 - REMOVE AND DISPOSE OF EXISTING CURBS FROM EXHAUST FANS. (REPLACE WITH NEW METAL CURB)

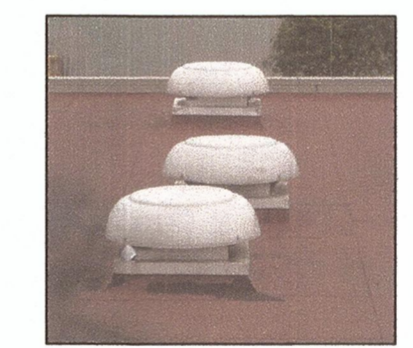


PHOTO 1
 TYPICAL DOWNBLAST EXHAUST FANS

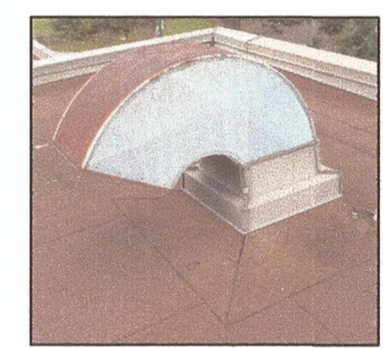


PHOTO 2
 GOOSENECK INTAKE F7

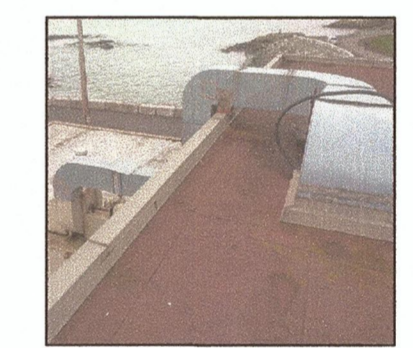


PHOTO 3
 M1 MECHANICAL DUCTWORK

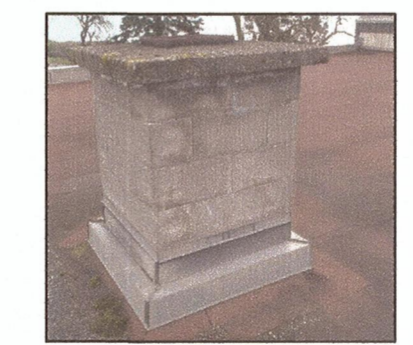


PHOTO 4
 ROOF CHIMNEY

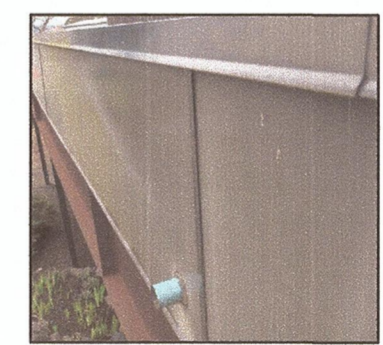


PHOTO 5
 OVERFLOW SCUPPER

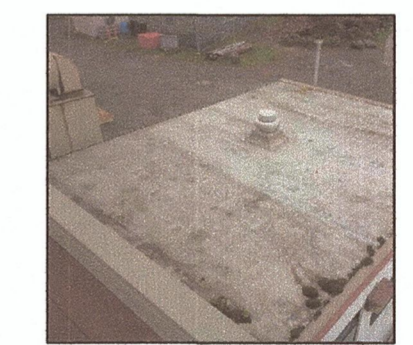
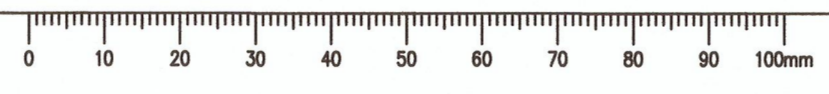
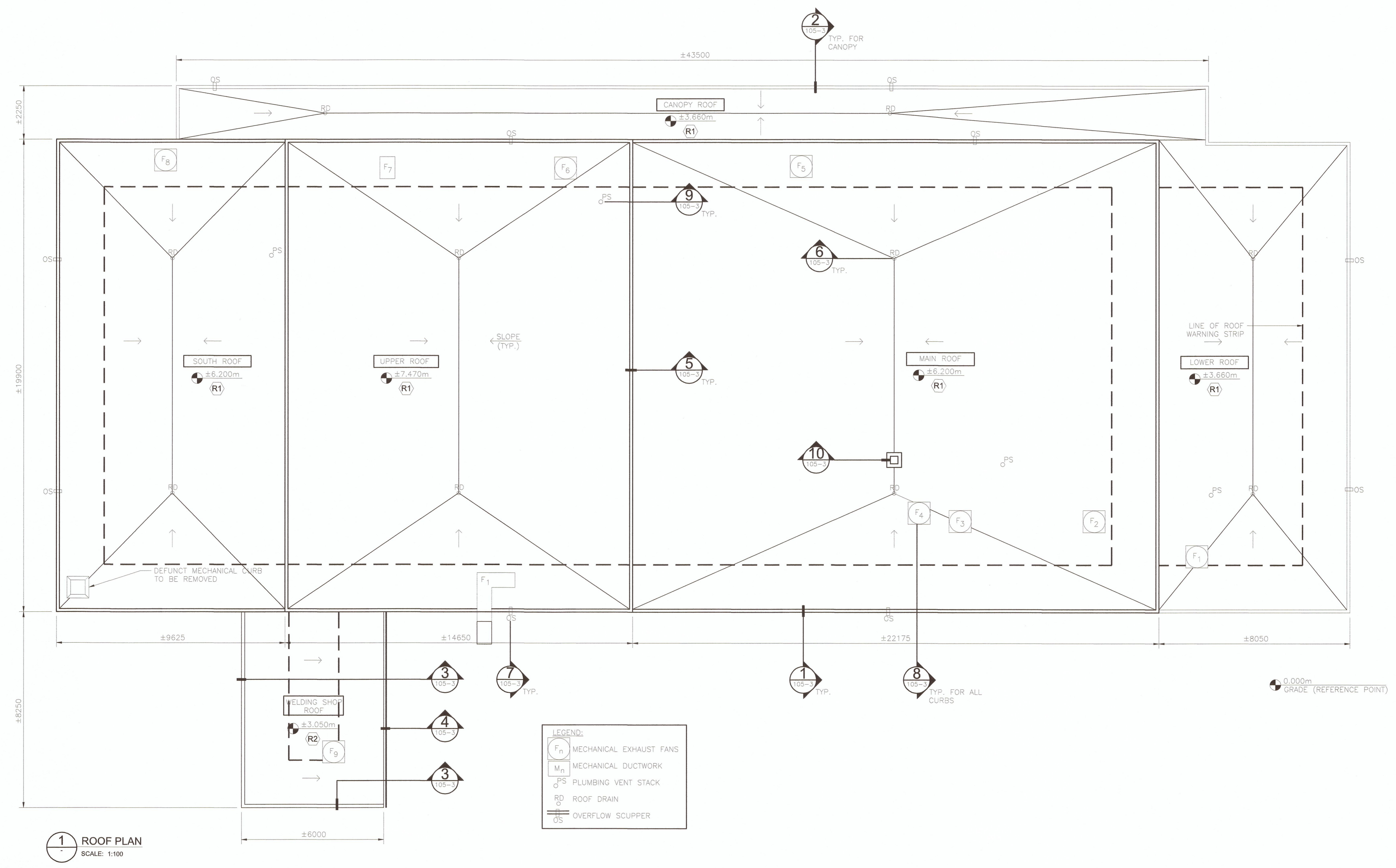


PHOTO 6
 WELDING SHOP ROOF OVERVIEW





LEGEND:

F _n	MECHANICAL EXHAUST FANS
M _n	MECHANICAL DUCTWORK
PS	PLUMBING VENT STACK
RD	ROOF DRAIN
OS	OVERFLOW SCUPPER

1 ROOF PLAN
SCALE: 1:100

0	ISSUED FOR TENDER	2016/05/25
Revision/	Description/Description	Date/Date

Client/client

CORRECTIONAL SERVICE CANADA

Project Title/Titre du projet
**METCHOSIN, BC
6000 WILIAM HEAD ROAD**

**WILLIAM HEAD INSTITUTION
ROOFING PROJECT**

Consultant Signature Box Only

Designed by/Concept par
Jay Jirka

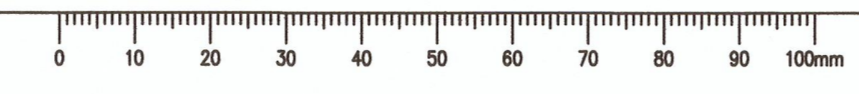
Drawn by/Dessine par
Byron McElgunn

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Daryl Sinclair

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

Drawing Title/Titre du dessin
**BUILDING 105 - VOCATIONAL TRAINING
ROOF PLAN**

Project No./No. du projet R.079717.001	Sheet/Feuille 105-2 OF	Revision no./ La Révision no. 7
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Prime consultant/premier consultant



MH PROJECT NUMBER: 5160055.00



0	ISSUED FOR TENDER	2016/05/25
Revision/Revision	Description/Description	Date/Date

Client/client
CORRECTIONAL SERVICE CANADA

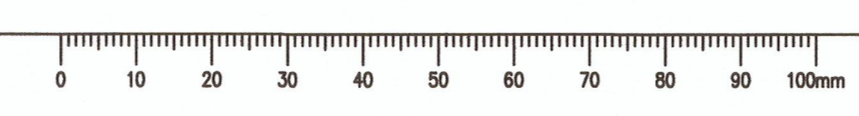
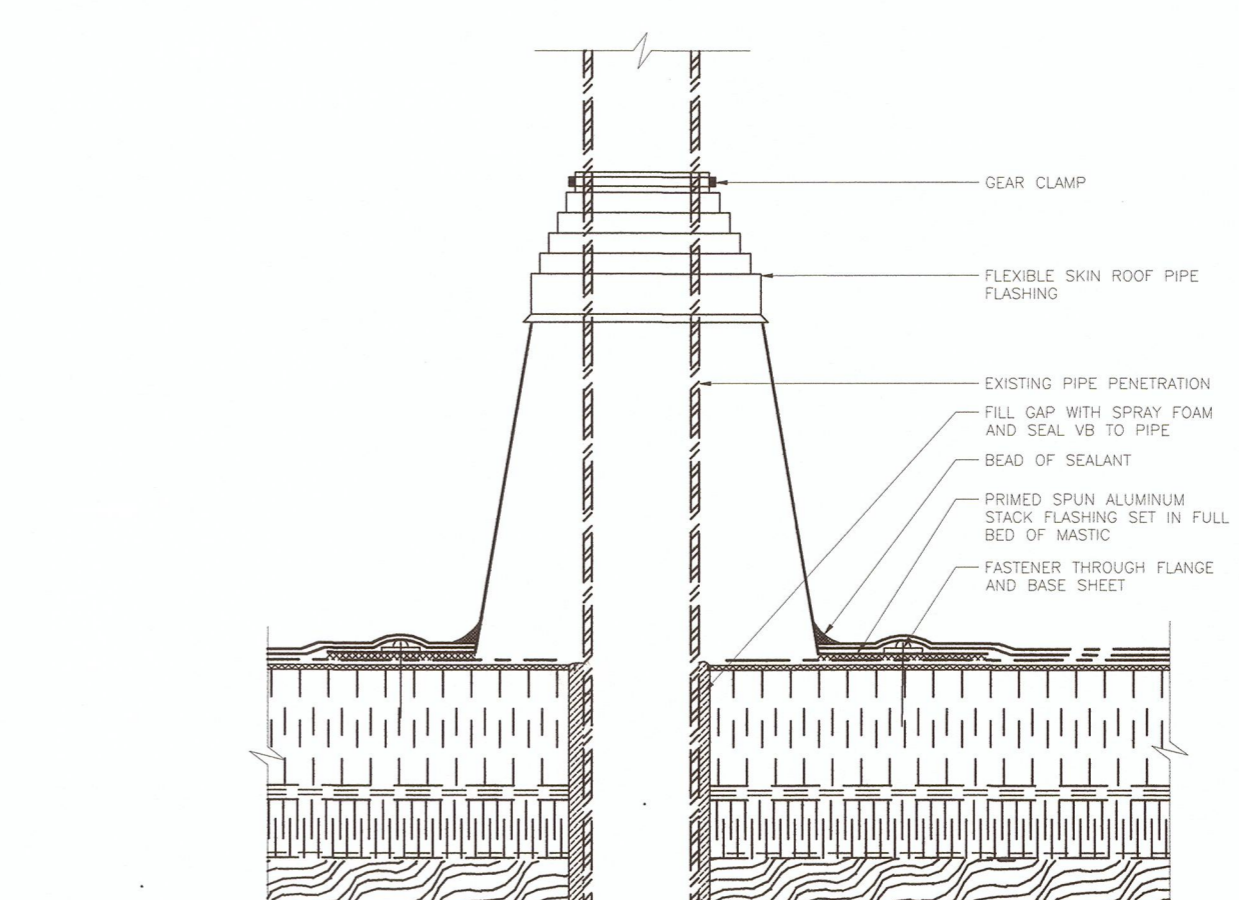
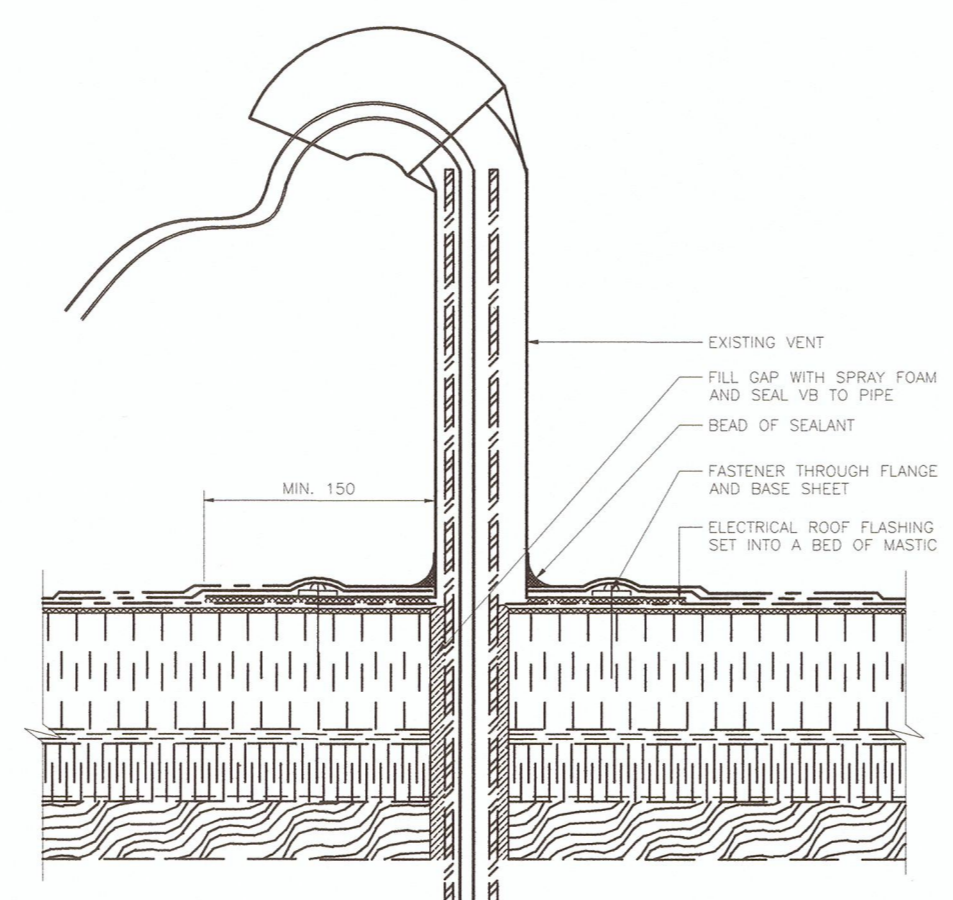
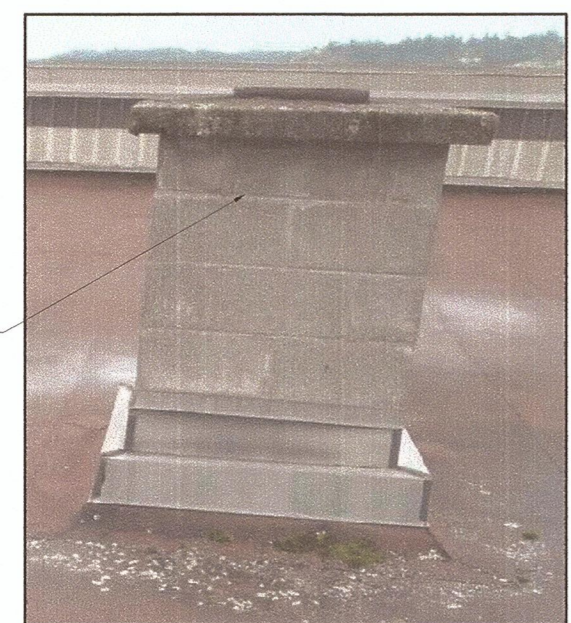
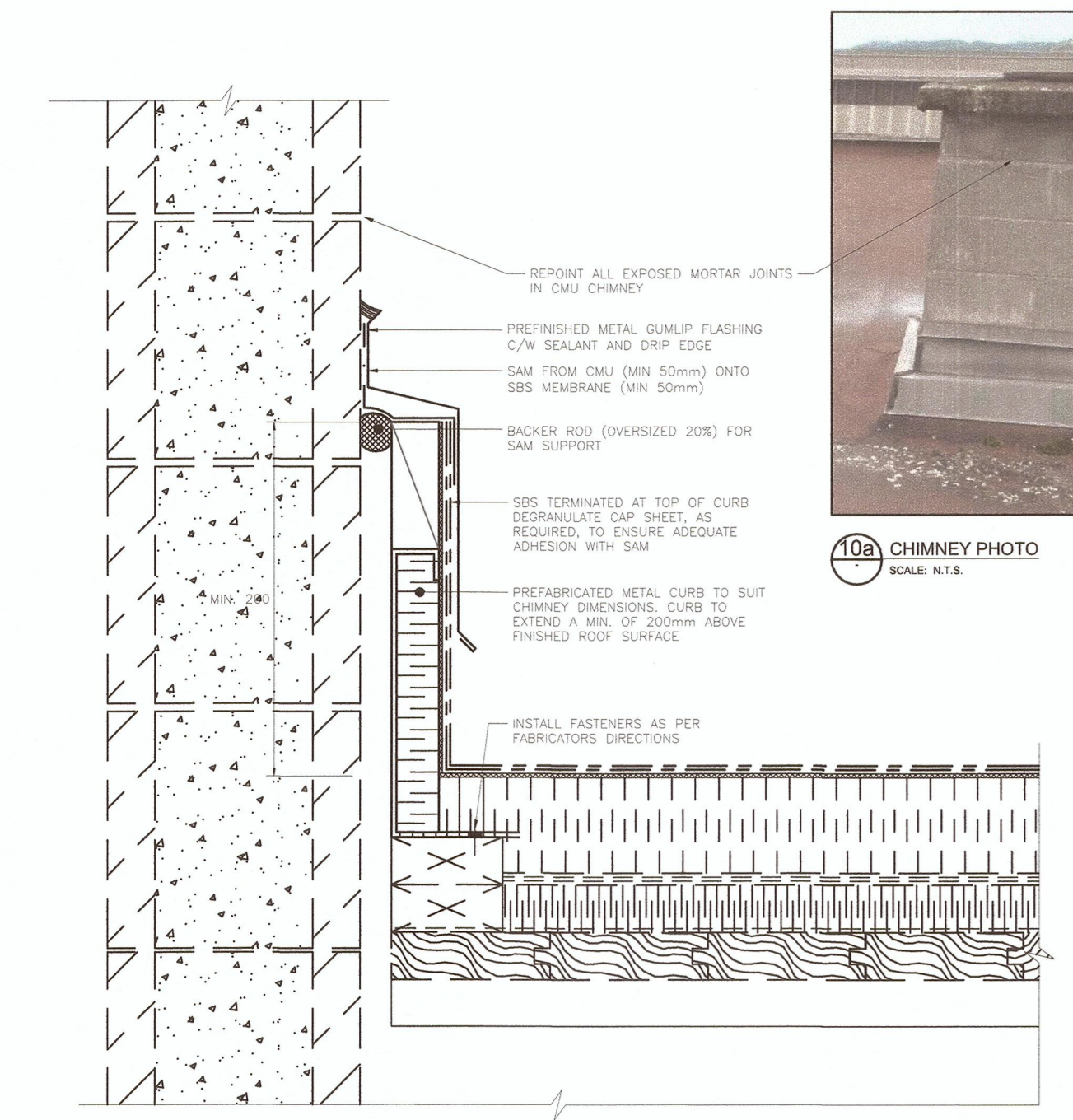
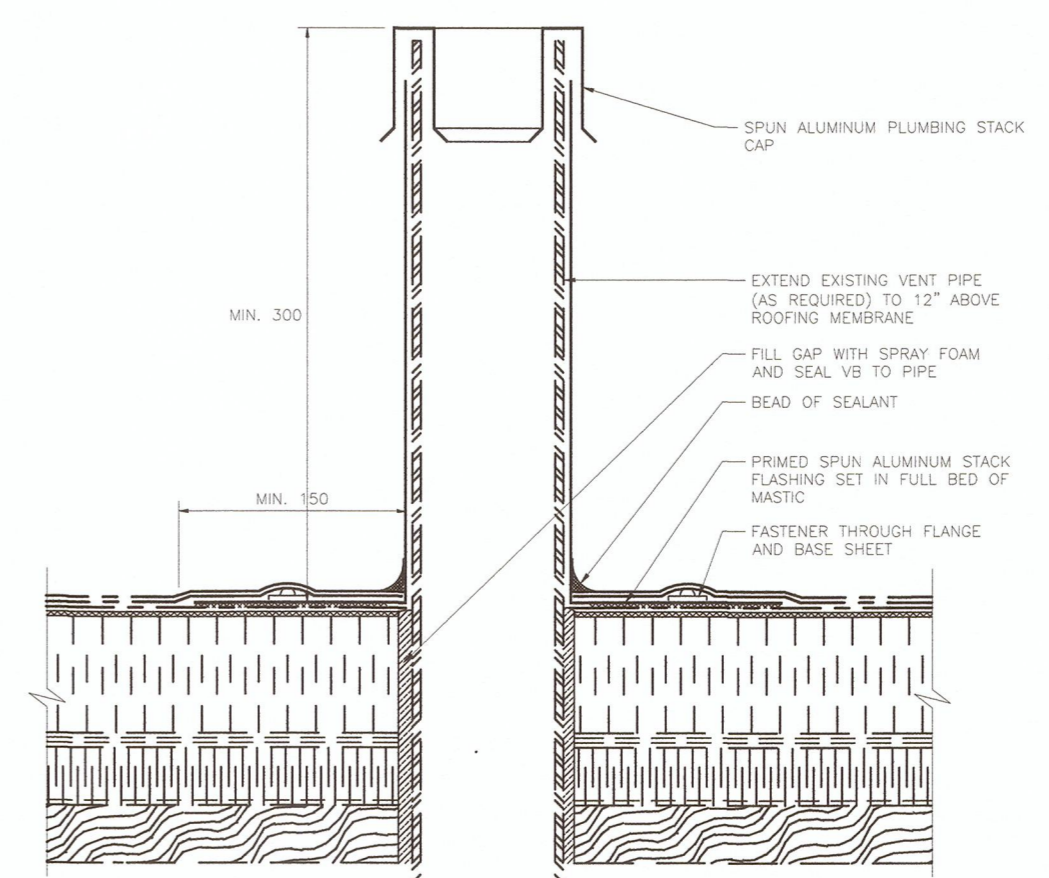
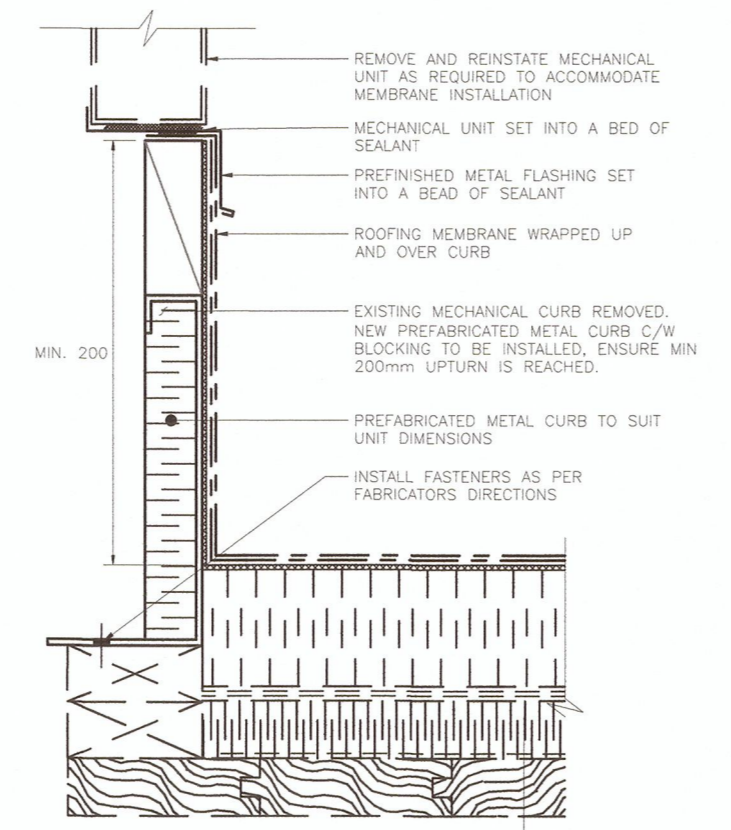
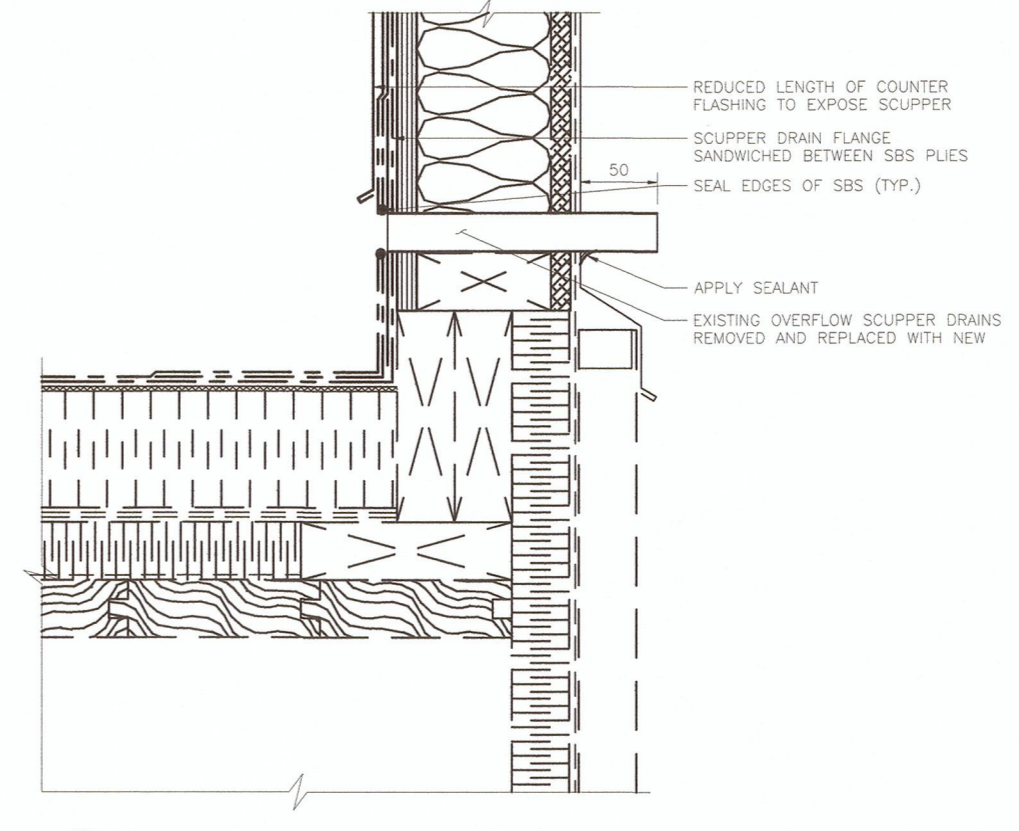
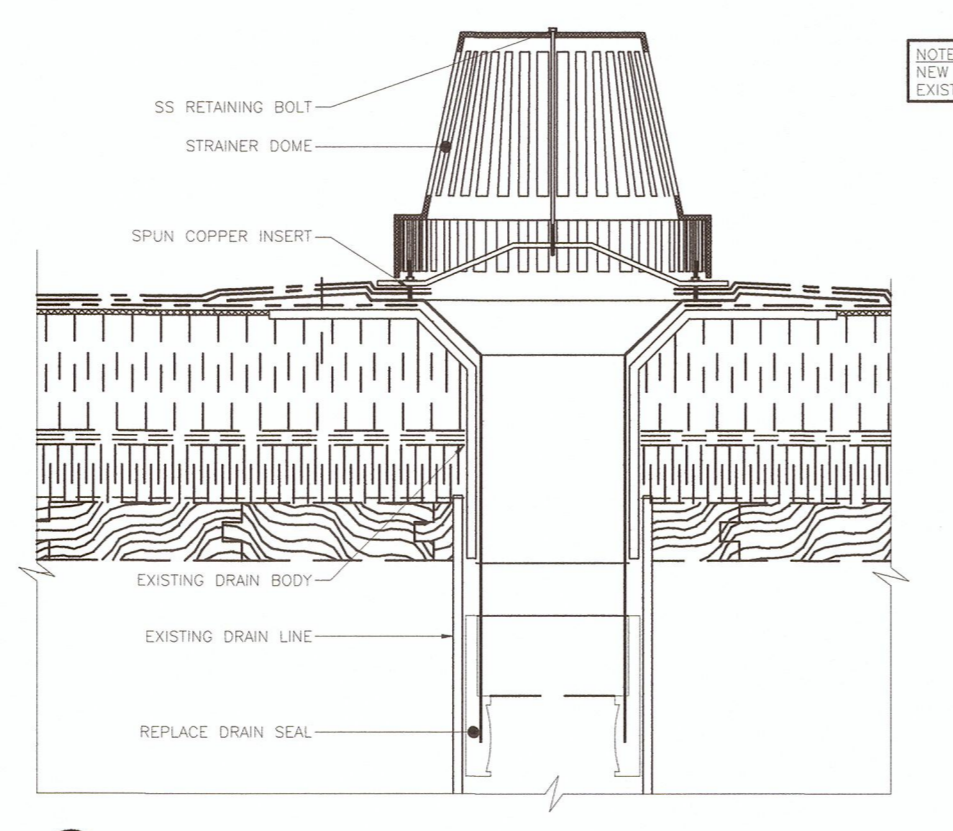
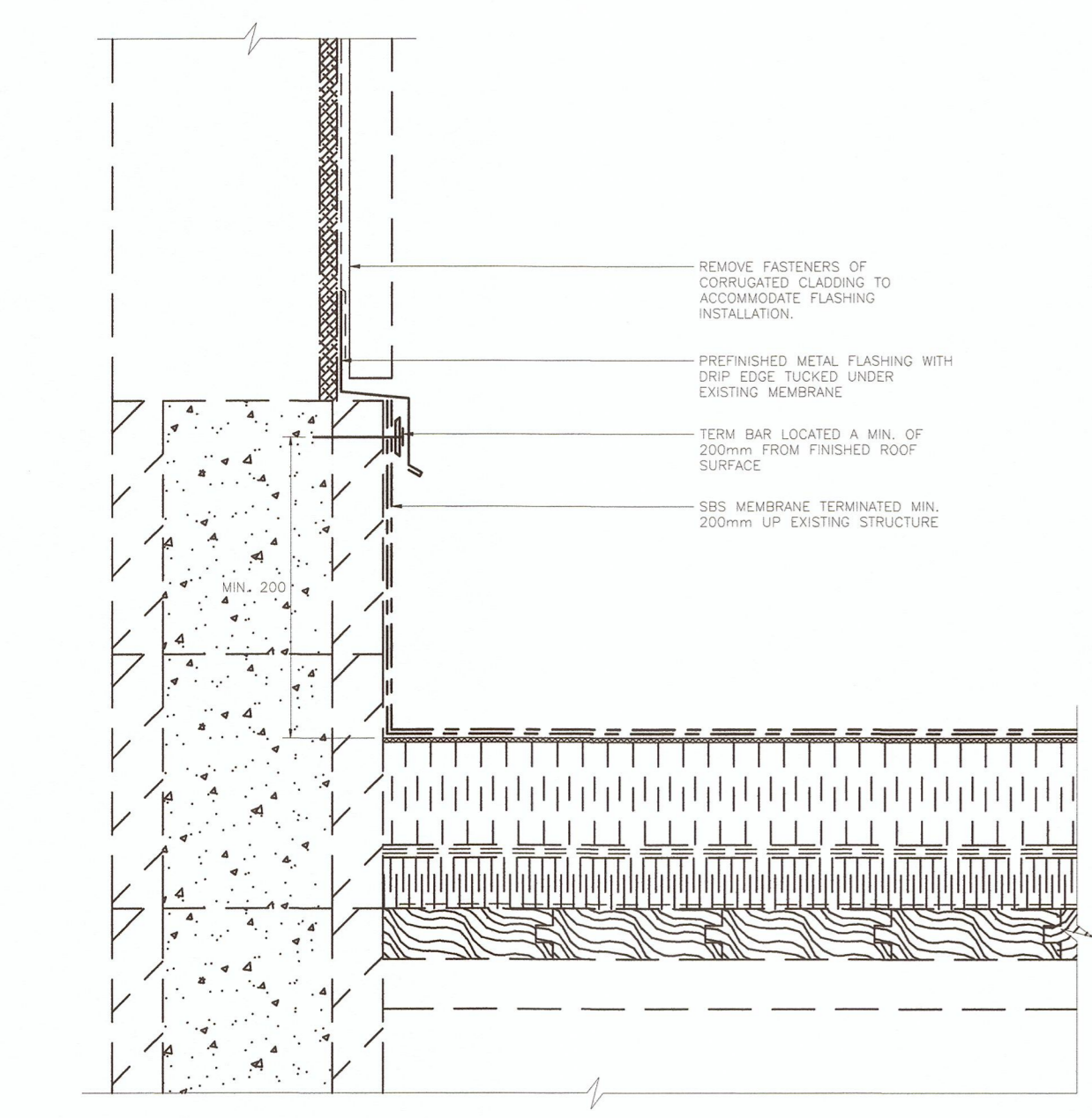
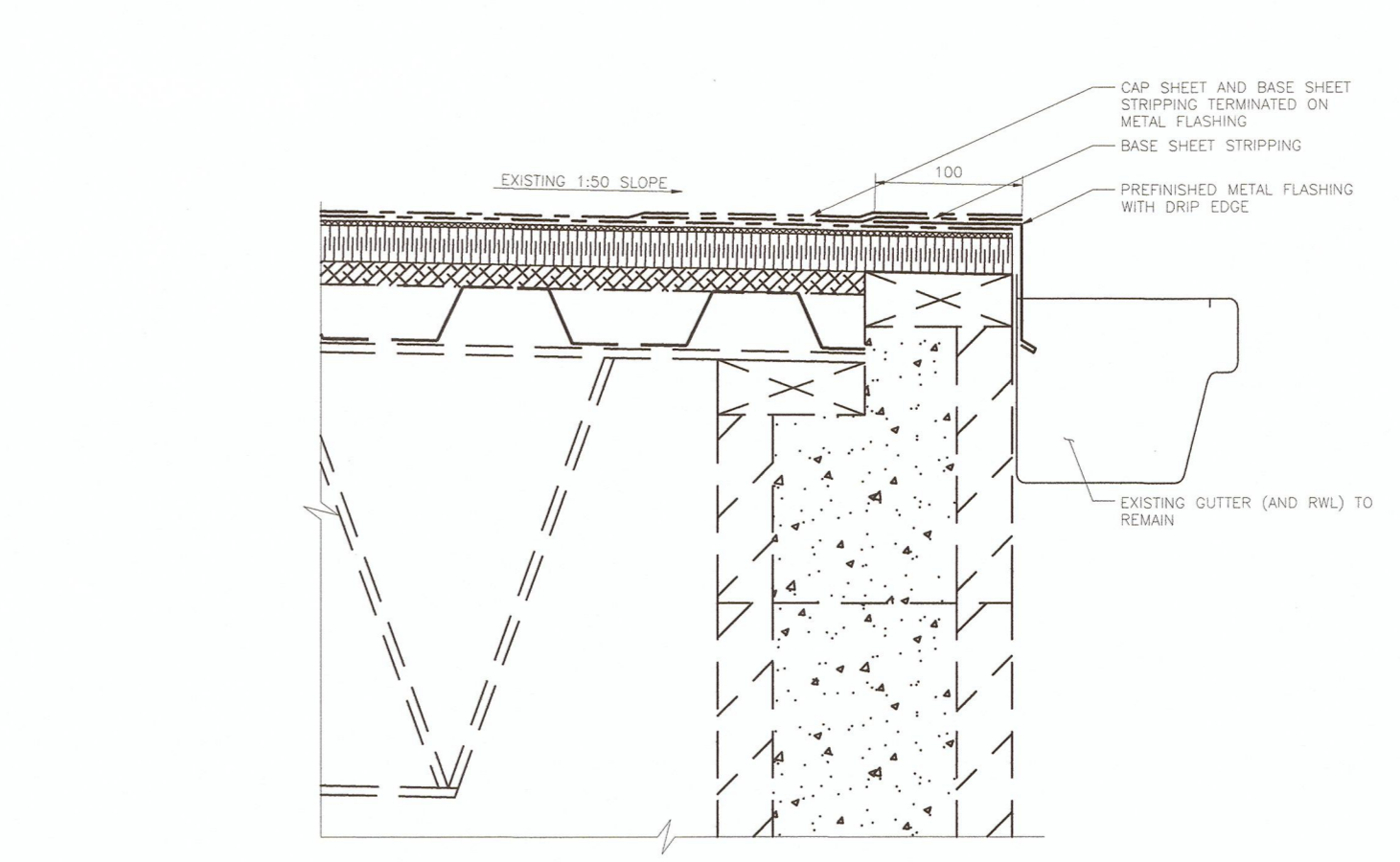
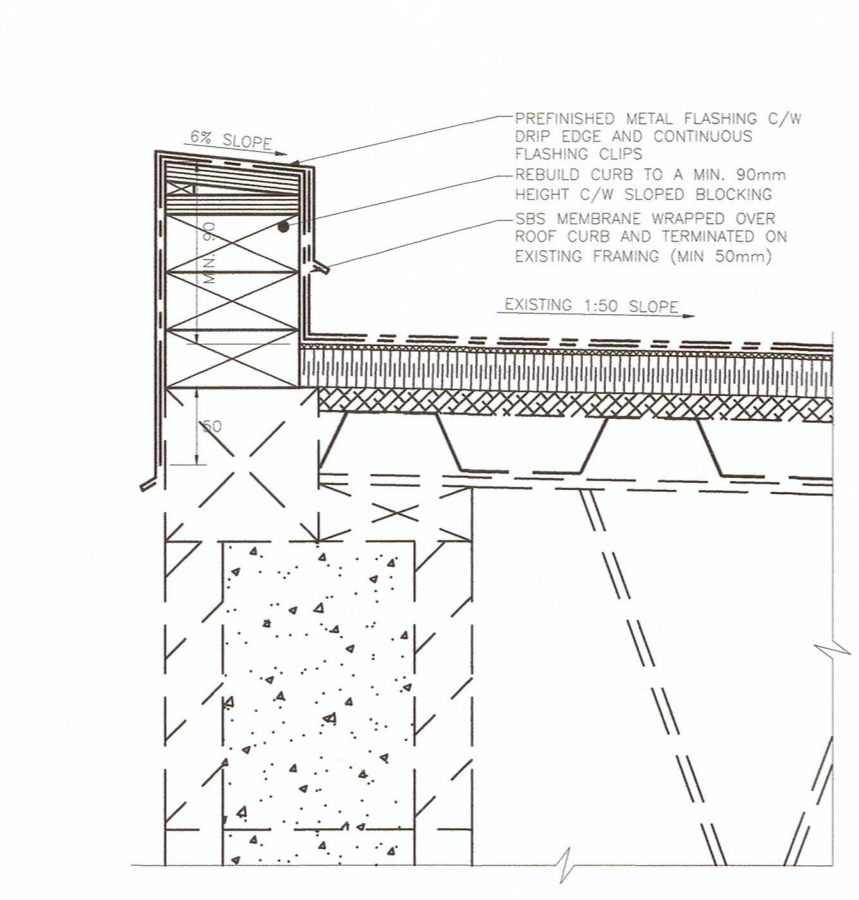
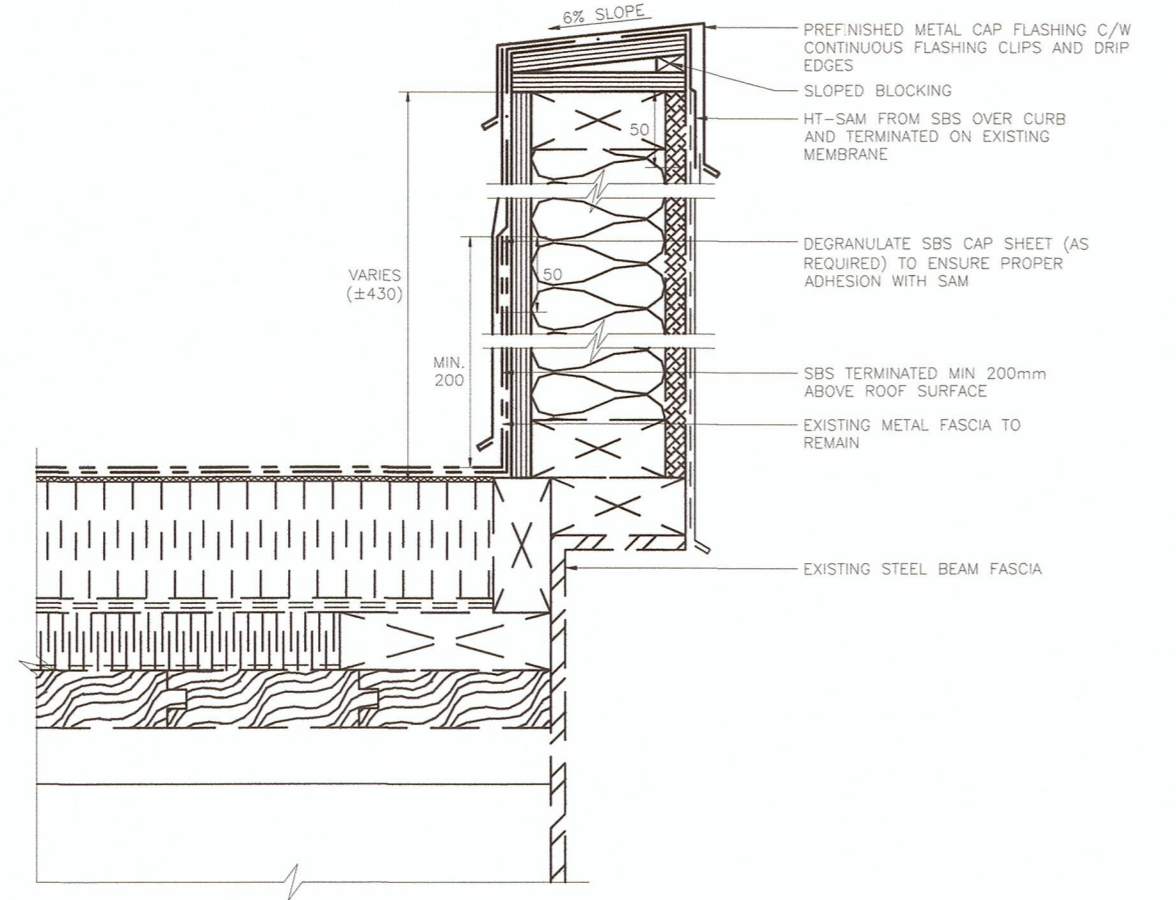
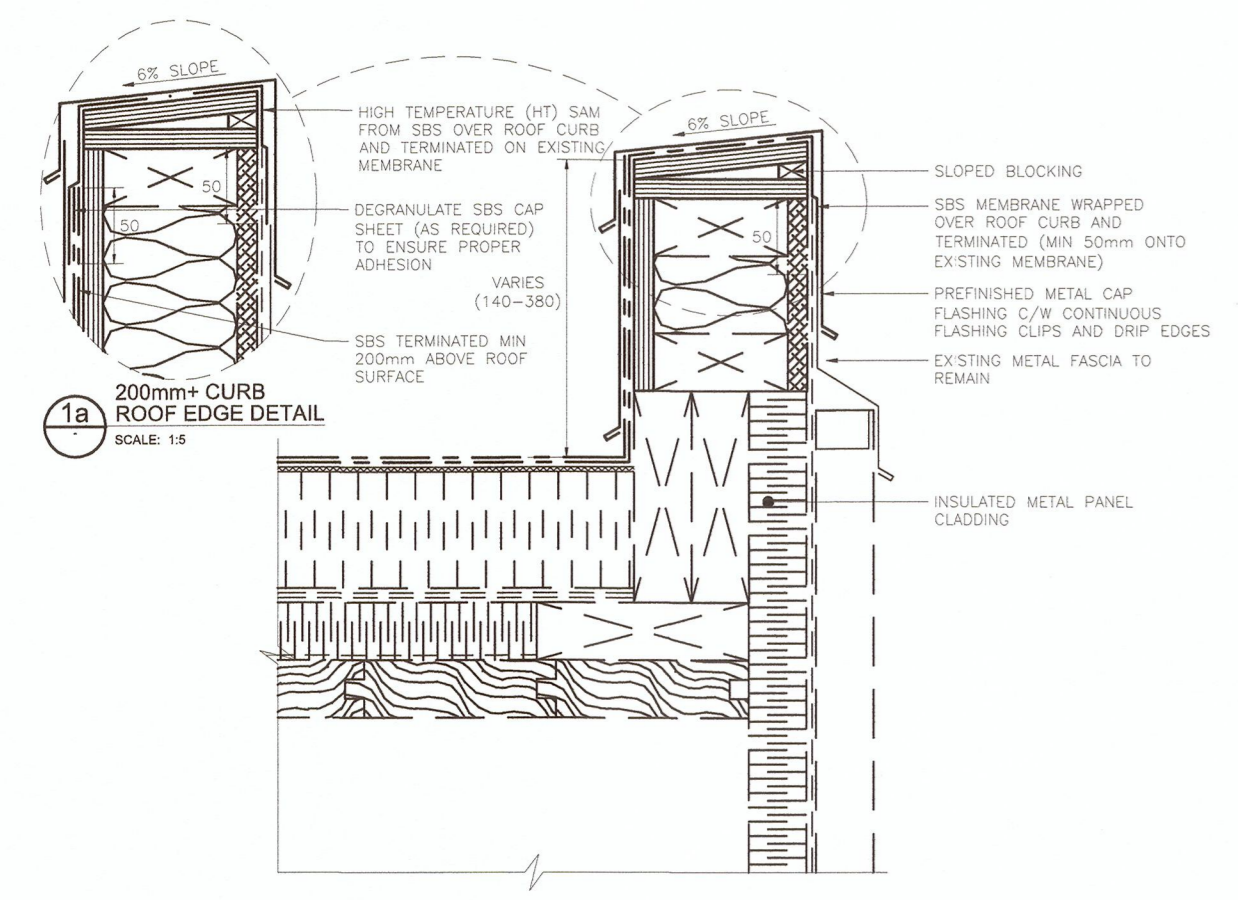
Project title/Titre du projet
**METCHOSIN, BC
6000 WILLIAM HEAD ROAD
WILLIAM HEAD INSTITUTION
ROOFING PROJECT**

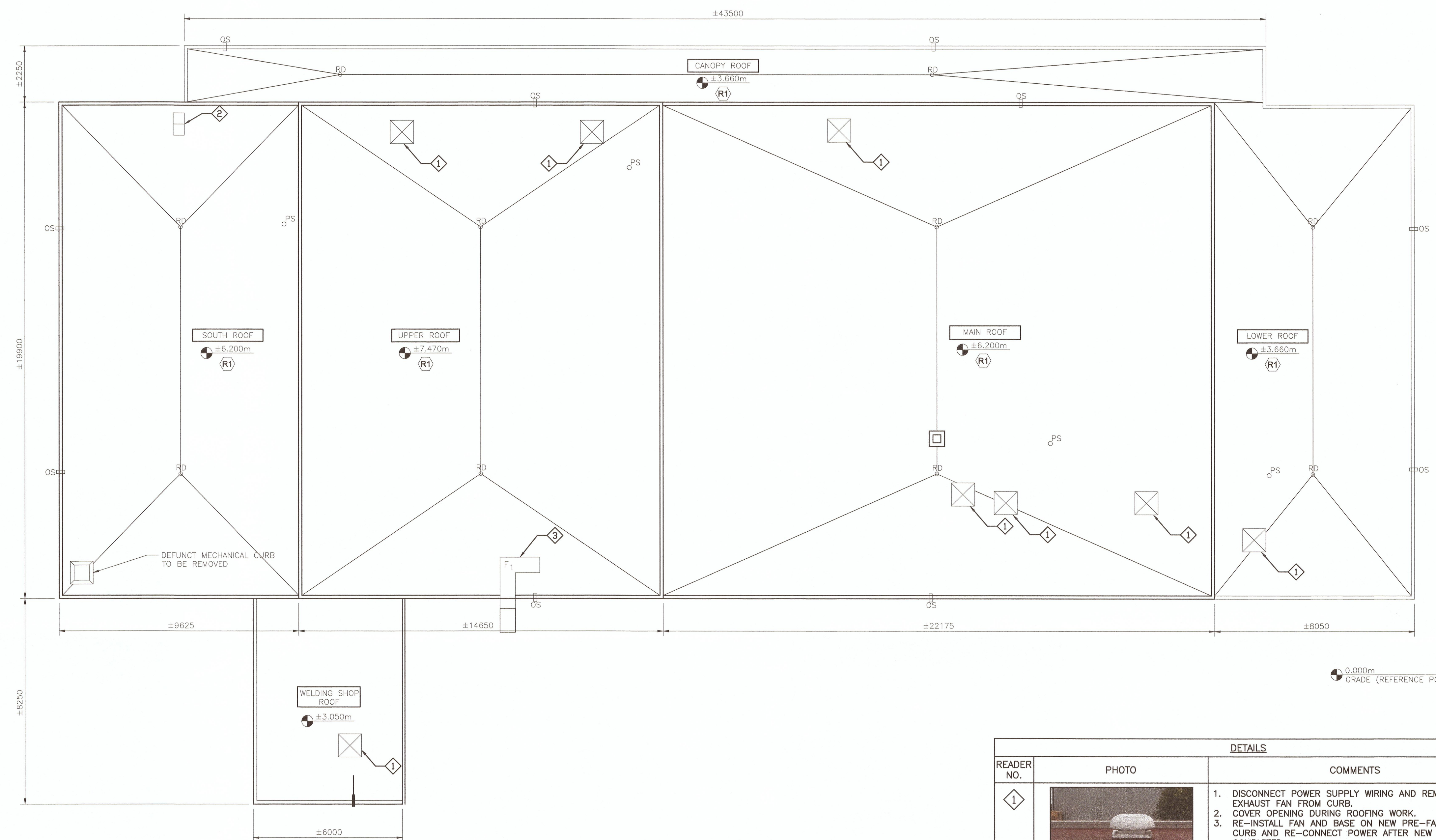
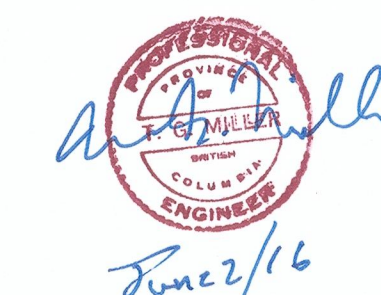
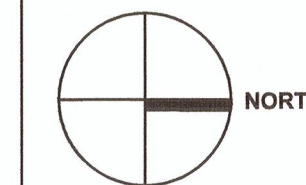
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Jay Jirka
Drawn by/dessiné par
Byron McElgunn
PWGSC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

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

Drawing title/Titre du dessin
**BUILDING 105 - VOCATIONAL TRAINING
ROOF DETAILS**

Project No./No. du projet R.079717.001	Sheet/Feuille 105-3 OF	Revision no./ La Révision no. 7
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GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE DONE BY AN ELECTRICIAN WITH A TRADE QUALIFICATION VALID IN BC.
- POWER SUPPLY TO ELECTRICAL EQUIPMENT ON THE ROOF SHALL BE LOCKED OUT PRIOR TO DISCONNECTION.
- ALL WORK ON GAS SUPPLY PIPING SHALL BE DONE BY A GAS FITTER LICENCED IN BC.
- REFER TO SPECIFICATIONS 23 73 12 - HALOCARBON MANAGEMENT
- DISCONNECTION AND RE-CONNECTION OF REFRIGERATION PIPING SHALL BE DONE BY REFRIGERATION MECHANIC WITH A TRADE QUALIFICATION VALID IN BC.
- SHEET METAL WORK SHALL BE DONE BY A QUALIFIED SHEET METAL TRADESMAN TO SMACNA STANDARDS. RE-ASSEMBLY OF DUCTWORK SHALL INCLUDE RE-SEALING OF JOINTS WITH APPROVED OUTDOOR DUCT SEALANT.
- REFER TO HAZMAT REPORT IF AVAILABLE TO CONFIRM PRESENCE OF HAZARDOUS MATERIALS ON ROOF AND MECHANICAL EQUIPMENT. MECHANICAL EQUIPMENT TO BE HANDLED AS PER HAZMAT REGULATIONS IF HAZARDOUS MATERIALS ARE PRESENT.
- ALL RE-INSTALLED AND NEW MECHANICAL/ELECTRICAL EQUIPMENT SHALL BE APPROPRIATELY ANCHORED/RESTRAINED. DESIGN AND FIELD REVIEW SHALL BE COMPLETED BY A QUALIFIED SEISMIC ENGINEER. LETTERS OF ASSURANCE SHALL BE SUBMITTED.
- PRIOR TO COMMENCEMENT OF WORK, CONFIRM OPERATION OF ALL MECHANICAL EQUIPMENT ON THE ROOF AND REPORT ANY DEFICIENCIES TO THE DEPARTMENTAL REPRESENTATIVE. UPON REINSTALLATION, EQUIPMENT SHALL BE TESTED/COMMISSIONED TO ENSURE OPERATIONAL.
- EQUIPMENT LISTED SHALL BE EITHER REMOVED FROM THE ROOF OR AS A MINIMUM LIFTED AND TEMPORARILY SUPPORTED SO AS TO PROVIDE ADEQUATE CLEARANCE FOR ROOFING AND FLASHING WORK TO BE COMPLETED.
- MECHANICAL ITEMS THAT ARE TO BE RE-INSTALLED SHALL BE REMOVED, STORED AND RE-INSTALLED WITH DUE CARE AS NECESSARY TO PREVENT ANY DAMAGE.

1 ROOF PLAN
SCALE: 1:100

LEGEND	
	EXHAUST FAN
	AIR VENT
	EXISTING CAP FLASHING
	GUARDRAIL
	ELECTRICAL PENETRATION
	A/C OR AIR HANDLING UNIT
	PLUMBING STACK
	ROOF DRAIN
	OVERFLOW SCUPPER
	GUTTER

DETAILS		
READER NO.	PHOTO	COMMENTS
1		1. DISCONNECT POWER SUPPLY WIRING AND REMOVE EXHAUST FAN FROM CURB. 2. COVER OPENING DURING ROOFING WORK. 3. RE-INSTALL FAN AND BASE ON NEW PRE-FAB ROOF CURB AND RE-CONNECT POWER AFTER NEW ROOF IS COMPLETED.
2		1. DISCONNECT AND REMOVE GOOSENECK INTAKE FROM FLASHED CURB. REMOVE EXISTING ROOF CURB. COVER OPENING DURING ROOFING WORK. 2. RE-INSTALL GOOSENECK ON NEW PRE-FAB ROOF CURB AFTER NEW ROOF IS COMPLETED.
3		1. DISCONNECT DUCTWORK ABOVE ROOF TO THE FLANGE AT THE PARAPET. REMOVE ROOF CURB AND COVER OPENING DURING ROOFING WORK. 2. RE-INSTALL DUCTING ON NEW PRE-FAB CURB ONCE ROOFING IS COMPLETE. RECONNECT DUCTWORK AND RESTORE AND SEAL TO ORIGINAL CONDITION.

CORRECTIONAL SERVICE CANADA

Project Title/Titre du projet
**METCHOSIN, BC
6000 WILIAM HEAD ROAD**

**WILLIAM HEAD INSTITUTION
ROOFING PROJECT**

Consultant Signature Box Only

Designed by/Concept par
Jay Jirka

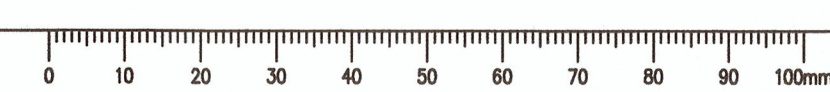
Drawn by/Dessine par
Byron McElgunn

PWGSC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

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

**BUILDING 105 - VOCATIONAL TRAINING
ROOF PLAN
MECHANICAL DRAWING**

Project No./No. du projet R.079717.001	Sheet/Feuille 105-M1	Revision no./ La Révision no. 7
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WILLIAM HEAD INSTITUTION ROOFING PROJECT

PROJECT NUMBER: R.079718.001

BUILDING 108 - INSTITUTIONAL SERVICES BUILDING

Prime consultant/premier consultant



MH PROJECT NUMBER: 5160055.00



Drawing List:

108-0	COVER PAGE, GENERAL NOTES, LEGENDS AND ASSEMBLIES
108-1	DEMOLITION PLAN
108-2	ROOF PLAN
108-3	ROOF DETAILS
108-M1	ROOF PLAN MECHANICAL DRAWINGS

Symbols Legend:

DETAIL REF.

AS***

DETAIL NUMBER

DRAWING NUMBER WHERE DETAIL IS LOCATED

SECTION REF.

AS***

SECTION DETAIL NUMBER

DRAWING NUMBER WHERE DETAIL IS LOCATED

DRAWING REFERENCE

1

DRAWING NAME

SCALE: SCALE

DRAWING NUMBER WHERE DETAIL IS REFERENCED

ASSEMBLY TYPE REFERENCE

ASSEMBLY TYPE DESIGNATION

REVISION TAG

REVISION NUMBER

REVISION CLOUD

DENOTES THE AREA WITHIN THE CLOUD BOUNDARIES CONTAINING THE MOST RECENT REVISION(S) MADE TO THAT DRAWING

Abbreviations List:

A/M	AIR/MOISTURE BARRIER
C/W	COMPLETE WITH DRAWING
DWG.	EXISTING
EXIST.	EXISTING
GWB	GYPSON WALL BOARD
MIN.	MINIMUM
N.I.C.	NOT IN CONTRACT
O.C.	ON CENTRE
PT	PRESSURE TREATED
REV.	REVERSED
RE&RE	REMOVE & REINSTALL
R.O.	ROUGH OPENING
RWL	RAINWATER LEADER
SAM	SELF ADHESIVE MEMBRANE
S.M.	SHEATHING MEMBRANE
SIM.	SIMILAR
S.O.G.	SLAB-ON-GRADE
T&G	TONGUE & GROOVE
T.B.C.	TO BE CONFIRMED
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
ADD.	ADDENDUM

General Notes:

- 0.00 APPLICABLE CODES:
NATIONAL BUILDING CODE 2010
NATIONAL ENERGY CODE CANADA FOR BUILDINGS 2011
- 0.01 DRAWINGS ARE TO BE READ IN CONJUNCTION WITH WRITTEN SCOPE OF WORK.
- 0.02 DO NOT SCALE DRAWINGS. CONTRACTOR IS TO VERIFY DIMENSIONS ON SITE.
- 0.03 DRAINS ARE SHOWN AT APPROXIMATE LOCATIONS. CONTRACTOR TO CONFIRM EXACT LOCATIONS ON-SITE.
- 0.04 FORM FLASHING TO MAINTAIN MINIMUM 6% SLOPE, UNLESS OTHERWISE NOTED.
- 0.05 ALL TERMINATIONS IN METAL FLASHING TO HAVE FOLDED END DAMS OR WATERTIGHT SADDLES. FLASHING DOWNTURN LEG TO OVER CLADDING MINIMUM 50mm UNLESS OTHERWISE NOTED. ALL JOINTS TO BE S-LOCK OR STANDING SEAM. ALL FLASHING EDGES TO BE HEMMED.
- 0.06 CONTRACTOR TO CONFIRM SLOPE OF FLAT ROOFS AND ADVISE CONSULTANT BEFORE PROCEEDING WITH MEMBRANE INSTALLATION.
- 0.07 CONTRACTOR TO CONFIRM EXACT NUMBER, SIZE AND LOCATION OF ALL PENETRATIONS AND ANY OTHER EQUIPMENT ON THE ROOF.
- 0.08 INSTALL MEMBRANE IN ACCORDANCE WITH RCABC REQUIREMENTS AND MANUFACTURER'S SPECIFICATIONS.
- 0.09 IF ANY DISCREPANCIES IN THE DOCUMENTS ARE FOUND, REQUEST THE CONSULTANT TO CLARIFY THE DISCREPANCIES PRIOR TO COMMENCING ANY RELATED WORK.
- 0.10 NOTIFY THE CONSULTANT IMMEDIATELY AND REQUEST A REVIEW IF ANY DAMAGE OF EXISTING AREAS OUTSIDE THE CONTRACT IS DISCOVERED. DO NOT COMMENCE ANY RELATED OR NEARBY WORK WITHOUT CONSULTANTS APPROVAL.
- 0.11 PROTECT NEW ROOFING MEMBRANE FROM TRAFFIC AND WORK.

Hatching Legend:

	RIGID/SEMI-RIGID INSULATION
	BATT INSULATION
	PLYWOOD SHEATHING/DECKING THICKNESS AS SPECIFIED
	EXISTING SHEATHING
	T&G WOOD SHEATHING

Detail Linetype Legend:

	SBS MEMBRANE
	EXISTING MEMBRANE
	SELF-ADHESIVE MEMBRANE
	EXISTING COMPONENT
	WARNING STRIP

Assemblies List:

	(R0) EXISTING ROOF ASSEMBLY -GRAVEL BALLAST (TO BE REMOVED) -EPDM ROOF MEMBRANE (TO BE REMOVED) -POLYISO RIGID INSULATION (TO REMAIN) -VAPOR BARRIER (TO REMAIN) -ROOF STRUCTURE (VARIES) (TO REMAIN)
	(R1) TYPICAL SBS ROOF ASSEMBLY -NEW 2-PLY SBS MEMBRANE (TORCHED ON) -NEW PROTECTION BOARD (FULLY ADHERED) -EXISTING POLYISO RIGID INSULATION -EXISTING VAPOUR BARRIER -EXISTING STRUCTURE

Key Plan:

LOCATION OF BUILDING ON SITE

1 WILLIAM HEAD INSTITUTION KEY PLAN
 SCALE: N.T.S.



0	ISSUED FOR TENDER	2016/05/25
Revision/Revision	Description/Description	Date/Date

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**METCHOSIN, BC
 6000 WILLIAM HEAD ROAD**

**WILLIAM HEAD INSTITUTION
 ROOFING PROJECT**

Consultant Signature Box Only

Designed by/Conçepé par
Jay Jirka

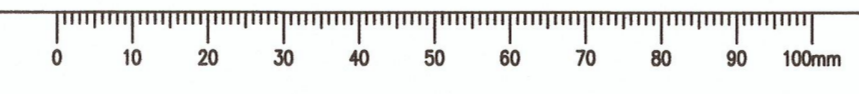
Drawn by/Dessiné par
Byron McElgunn (2016.01.16)

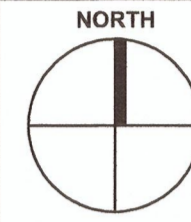
PWGSC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

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

Drawing title/Titre du dessin
**BUILDING 108 - INSTITUTIONAL SERVICES BUILDING
 COVER PAGE
 GENERAL NOTES
 LEGENDS AND ASSEMBLIES**

Project No./No. du projet	Sheet/Feuille	Revision no./ Le Révision no.
R.079718.001	108-0 OF	7





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ROOFING PROJECT**

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

Drawing title/Titre du dessin

**BUILDING 108 - INSTITUTIONAL
SERVICES BUILDING
DEMOLITION PLAN**

Project No./No. du projet R.079718.001	Sheet/Feuille 108-1 OF	Revision no./ La Révision no. 7
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1 ROOF PLAN
SCALE: 1:50

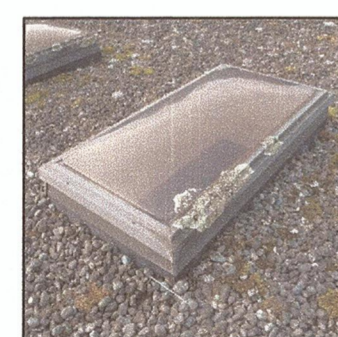


PHOTO 1
TYPICAL DOMED SKYLIGHT



PHOTO 2
TYPICAL FLAT SKYLIGHT

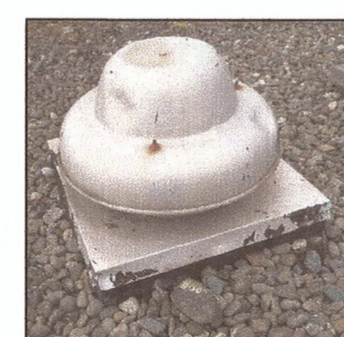


PHOTO 3
MECHANICAL DOWNBLAST FAN F1

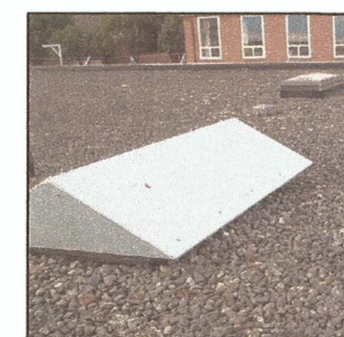


PHOTO 4
SKYLIGHT ROOF CAP V2 & V3

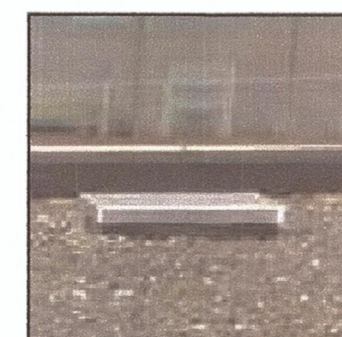
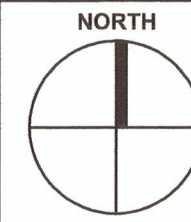


PHOTO 5
DECOMMISSIONED VENT TO BE REMOVED



PHOTO 6
TYPICAL ROOF DRAIN



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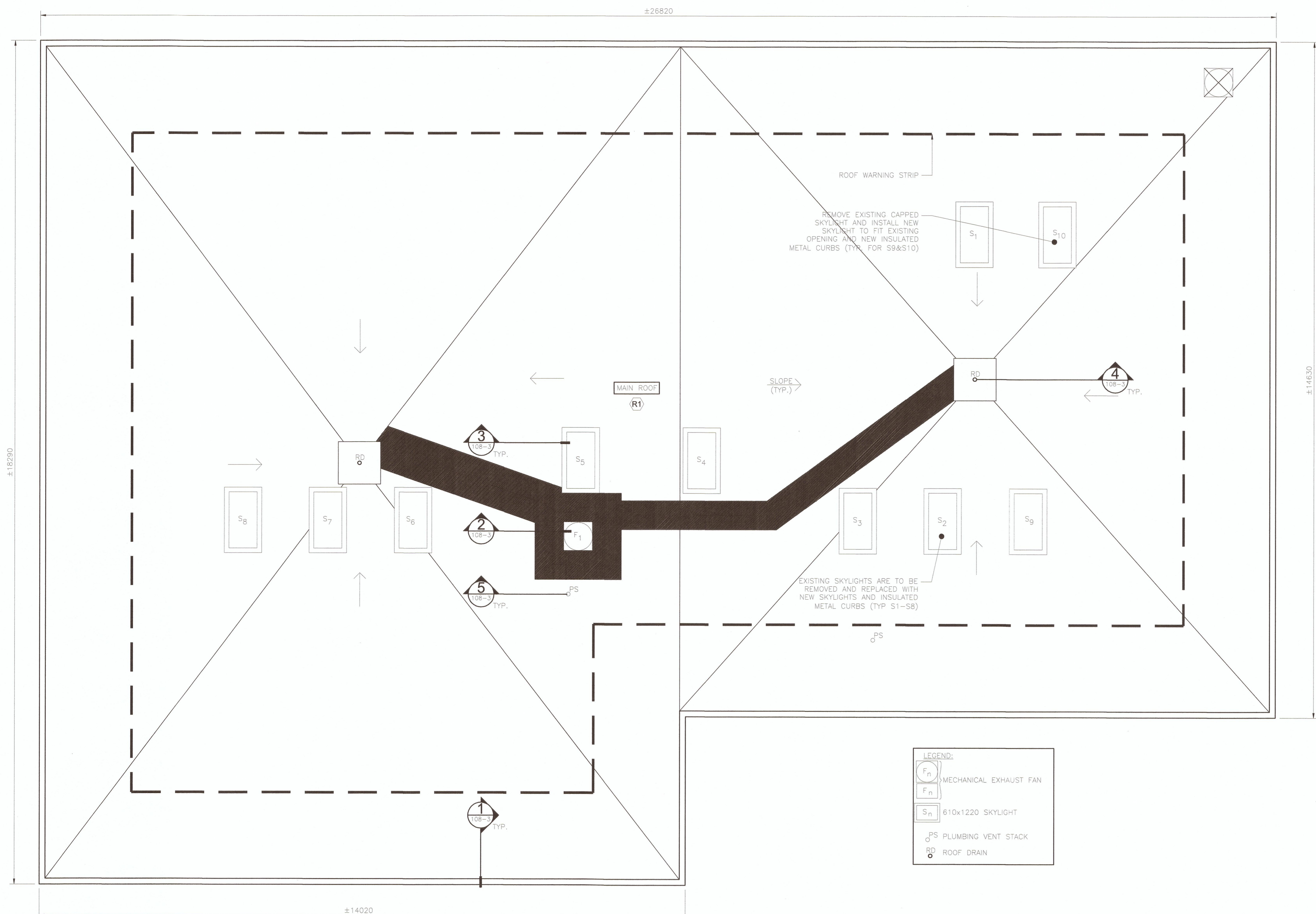
PWGSC Project Manager/Administrateur de Projets TPSGC
Daryl Sinclair

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

Drawing title/Titre du dessin

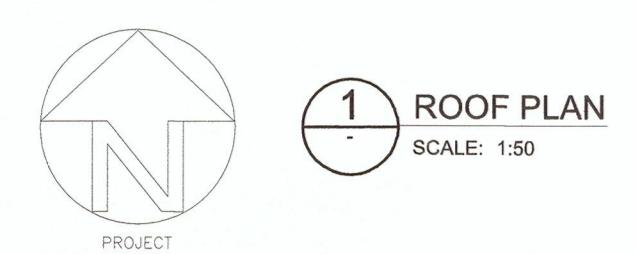
**BUILDING 108 - INSTITUTIONAL
SERVICES BUILDING
ROOF PLAN**

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LEGEND:

	MECHANICAL EXHAUST FAN
	610x1220 SKYLIGHT
	PLUMBING VENT STACK
	ROOF DRAIN





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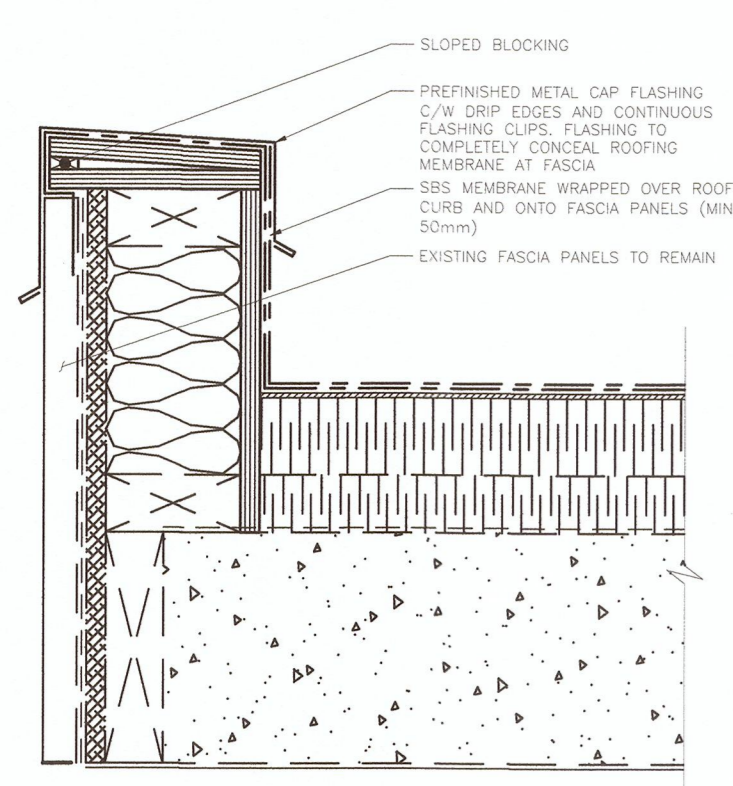
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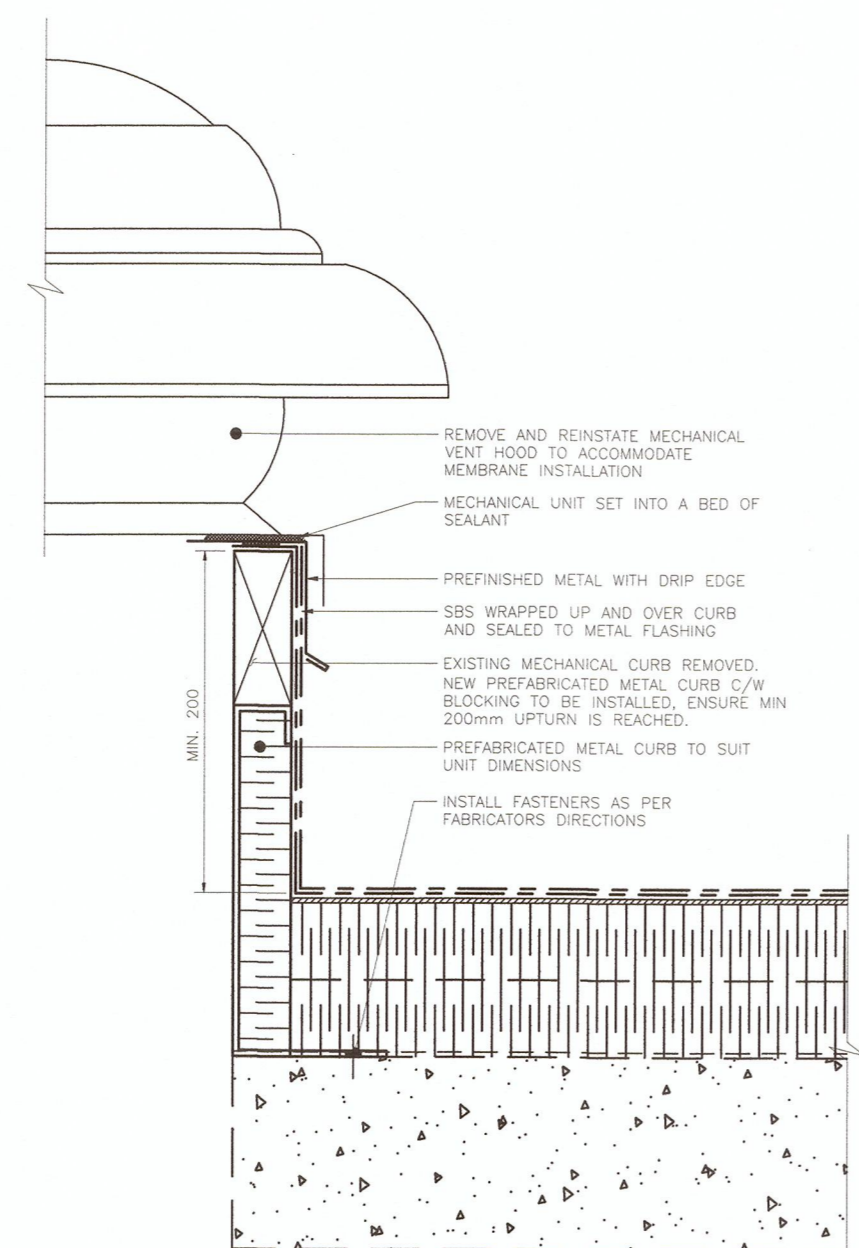
PWGSC Regional Manager, Architectural and Engineering Services/
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Preetipal Paul

Drawing title/Titre du dessin
**BUILDING 108 - INSTITUTIONAL
SERVICES BUILDING
ROOF DETAILS**

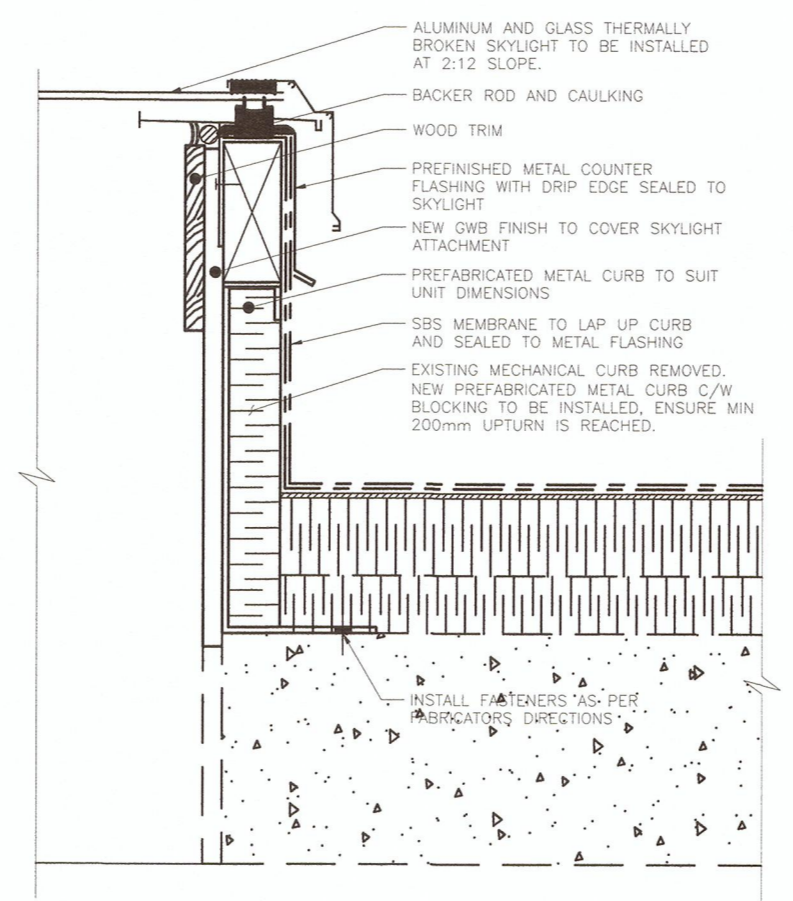
Project No./No. du projet R.079718.001	Sheet/Feuille 108-3 OF	Revision no./ La Révision no. 7
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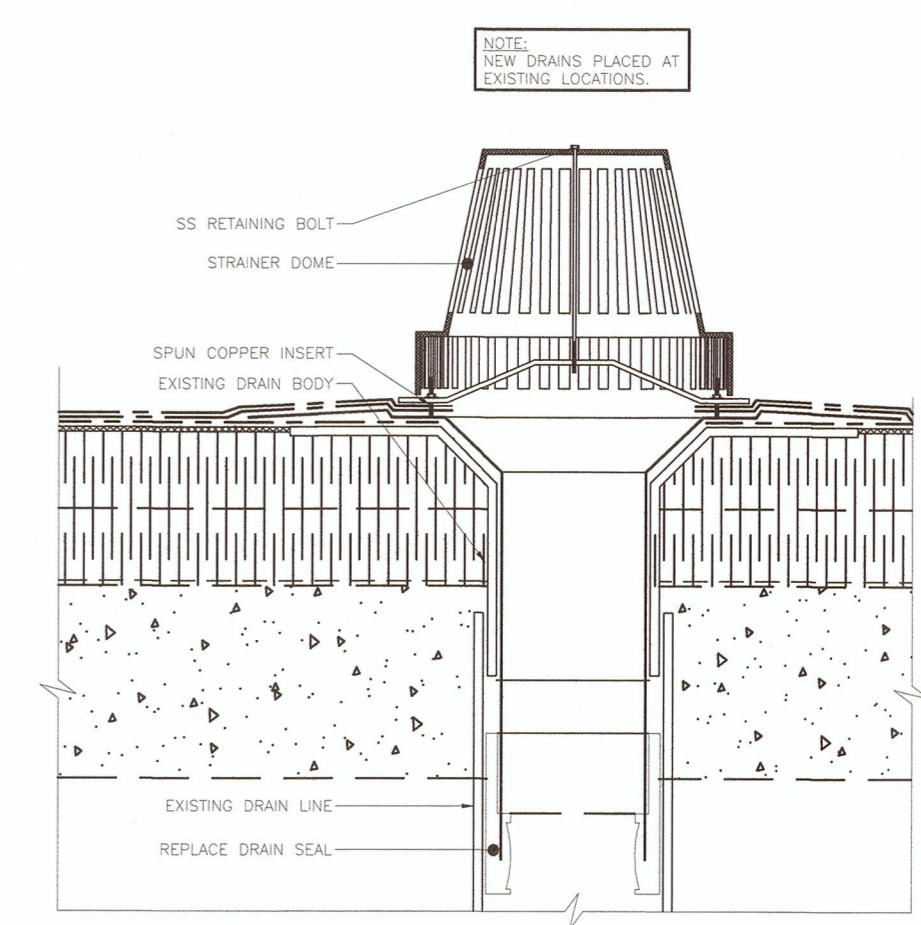
1 TYPICAL ROOF EDGE DETAIL
SCALE: 1:5



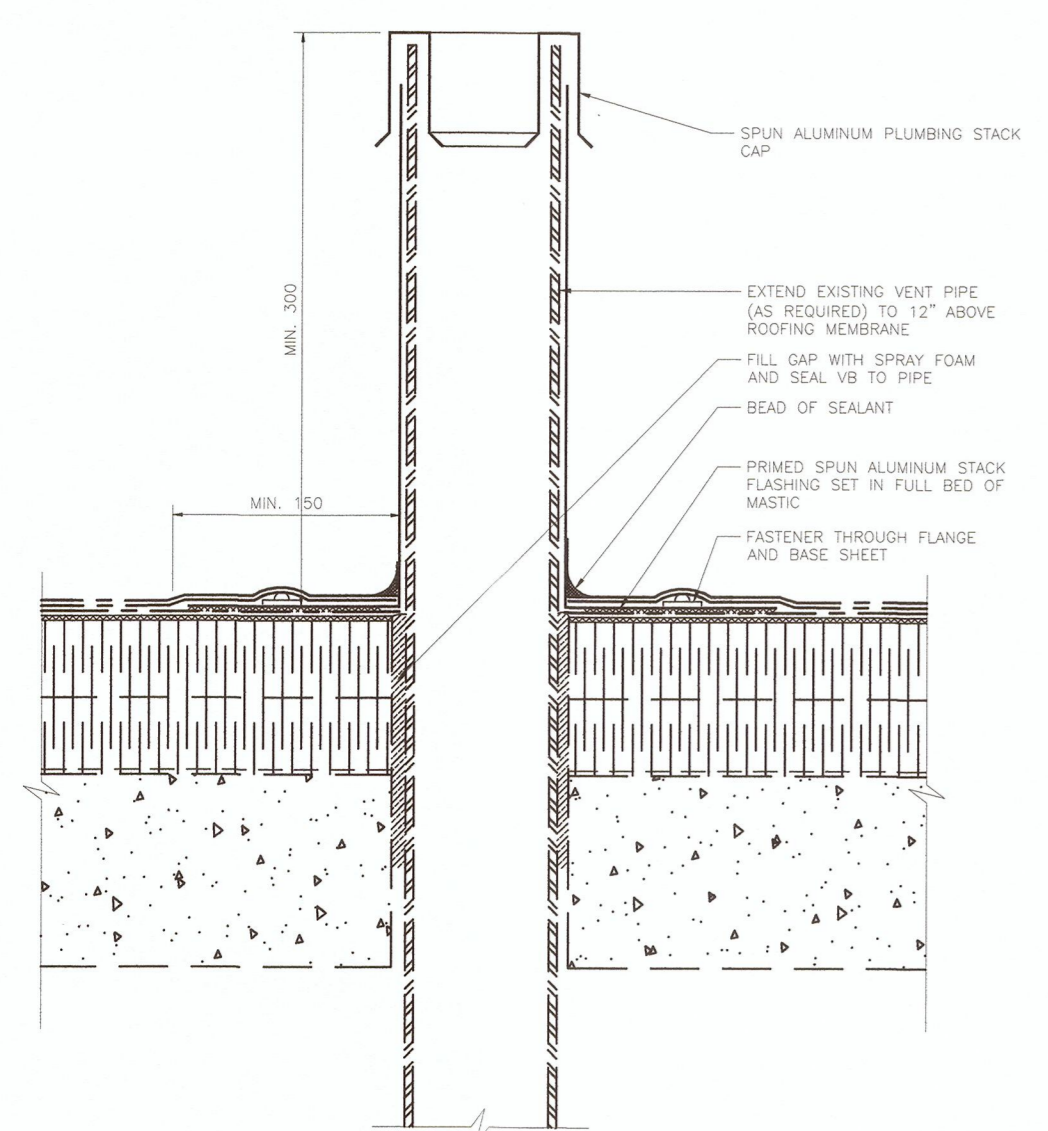
2 MECHANICAL VENT DETAIL WITH NEW CURB
SCALE: 1:5



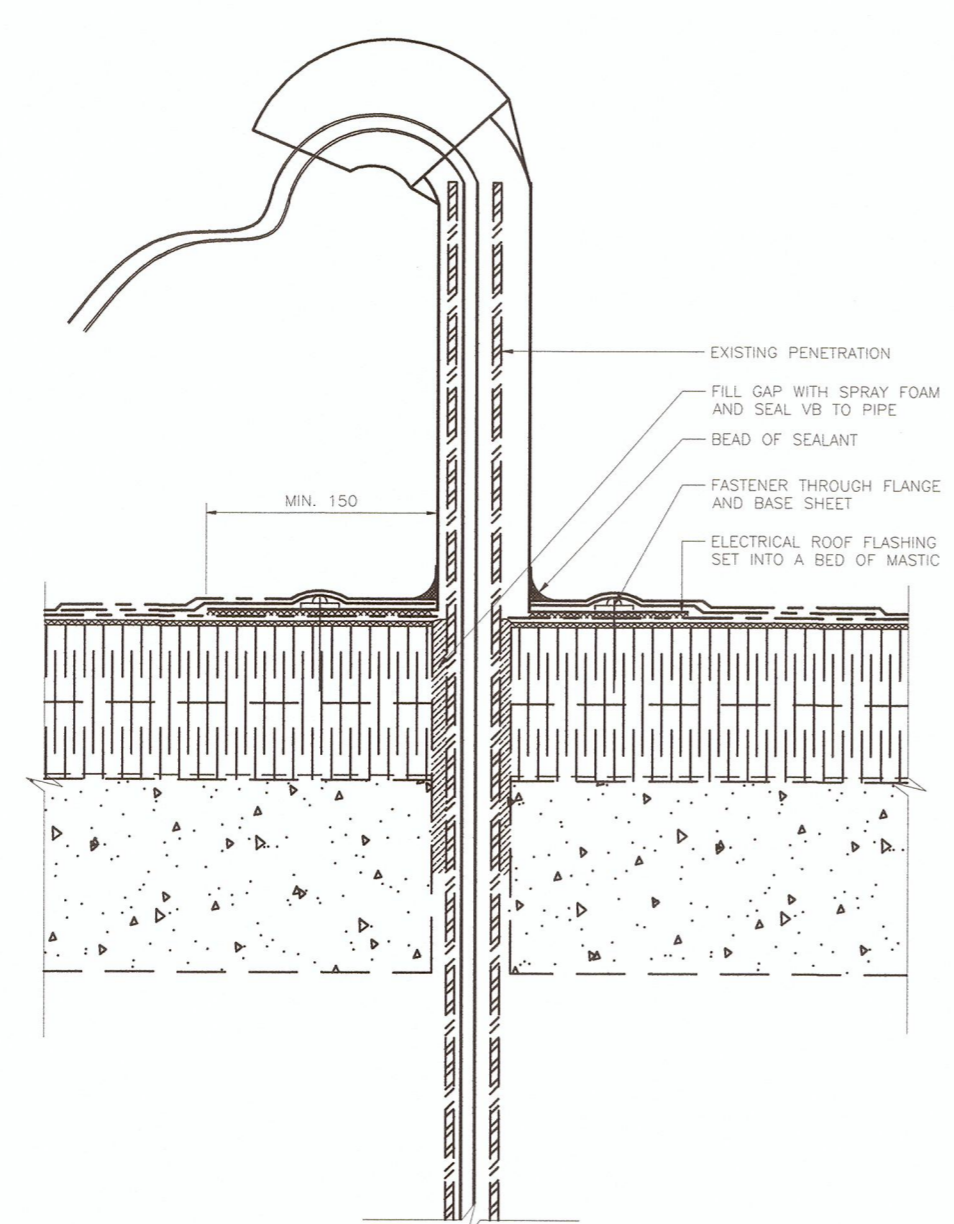
3 SKYLIGHT DETAIL
SCALE: 1:5



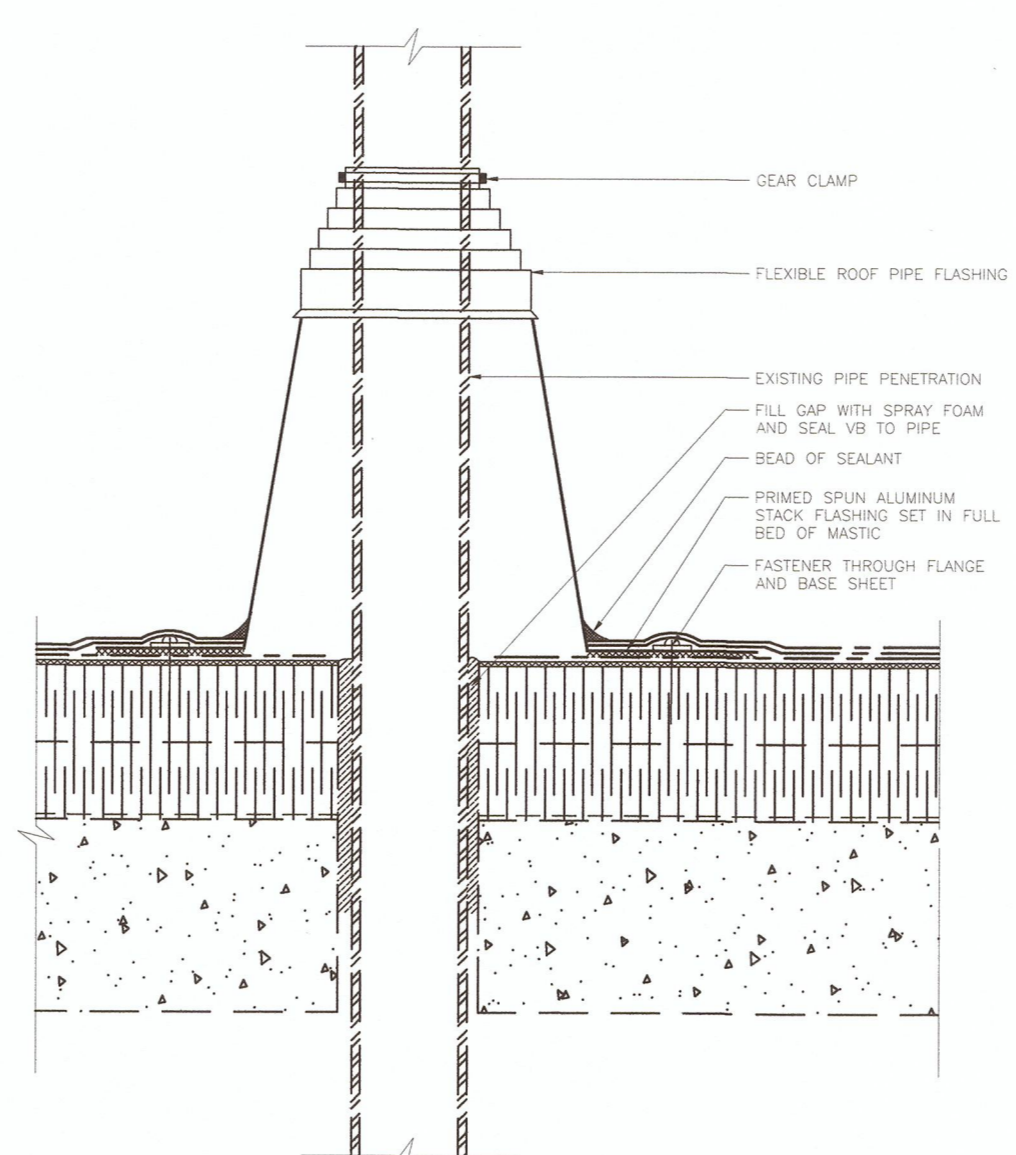
4 INTERNAL DRAIN
SCALE: 1:5



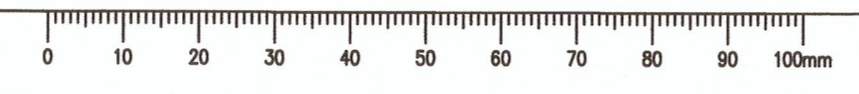
5 PLUMBING VENT STACK DETAIL
SCALE: 1:5



6 WIRE PENETRATION DETAIL
SCALE: 1:5



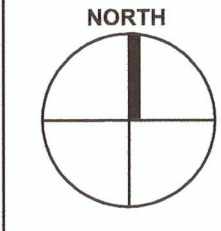
7 PIPE PENETRATION DETAIL
SCALE: 1:5



Prime consultant/premier consultant



MH PROJECT NUMBER: 5160055.00



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ROOFING PROJECT**

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Jay Jirka

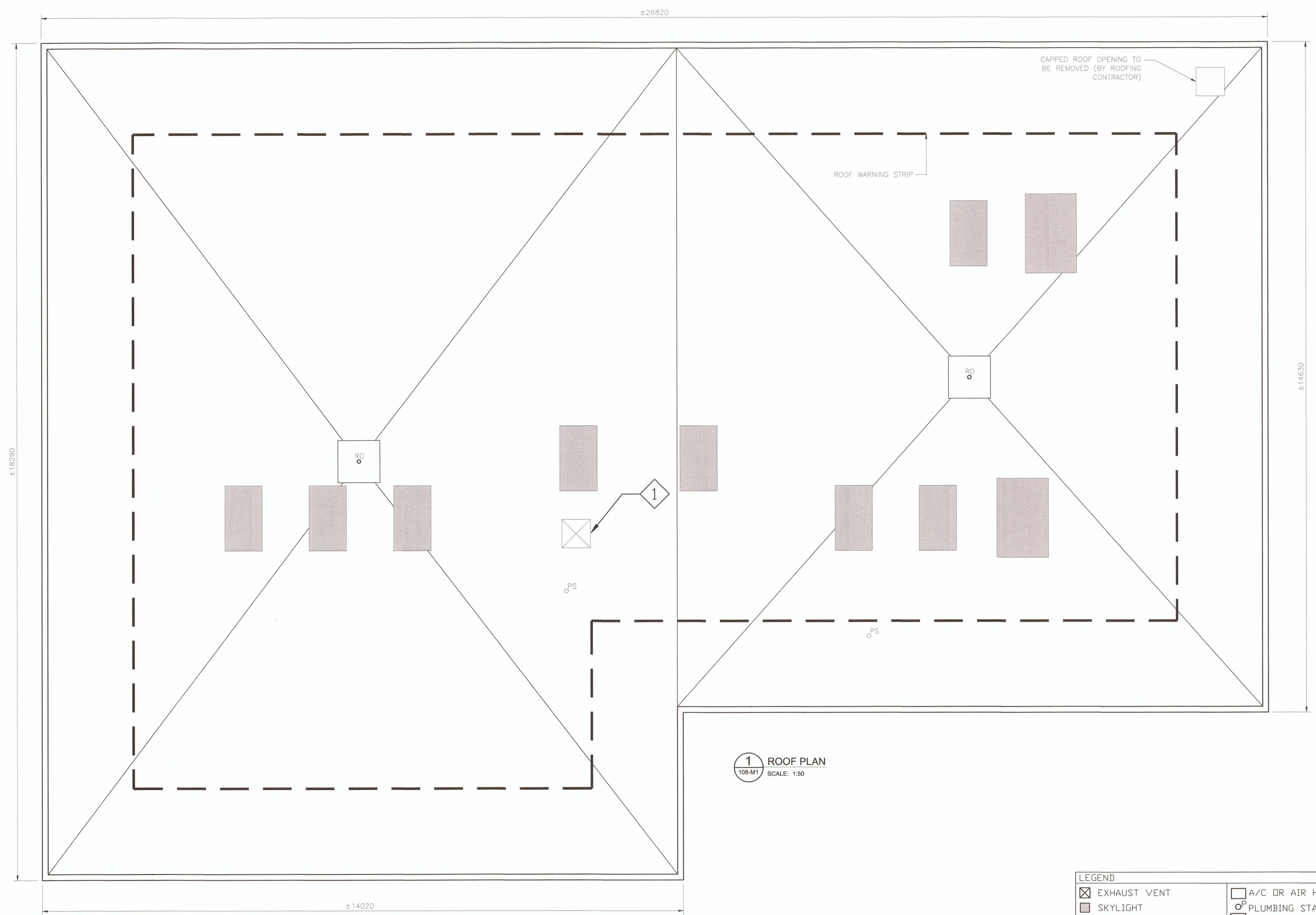
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Daryl Sinclair

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

Drawing title/Titre du dessin
**BUILDING 108 - INSTITUTIONAL
SERVICES BUILDING
ROOF PLAN
MECHANICAL DRAWING**

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1 ROOF PLAN
108-M1 SCALE: 1:50

LEGEND	
	EXHAUST VENT
	SKYLIGHT
	EXISTING CHIMNEY
	EXISTING CAP FLASHING
	GUARDRAIL
	A/C OR AIR HANDLING UNIT
	PLUMBING STACK
	DRAIN IN SUMP
	SCUPPER DRAIN
	GUTTER

GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE DONE BY AN ELECTRICIAN WITH A TRADE QUALIFICATION VALID IN BC.
- POWER SUPPLY TO ELECTRICAL EQUIPMENT ON THE ROOF SHALL BE LOCKED OUT PRIOR TO DISCONNECTION.
- ALL WORK ON GAS SUPPLY PIPING SHALL BE DONE BY A GAS FITTER LICENCED IN BC.
- REFER TO SPECIFICATIONS SECTION 23 73 12 - HALOCARBON MANAGEMENT
- DISCONNECTION AND RE-CONNECTION OF REFRIGERATION PIPING SHALL BE DONE BY REFRIGERATION MECHANIC WITH A TRADE QUALIFICATION VALID IN BC.
- SHEET METAL WORK SHALL BE DONE BY A QUALIFIED SHEET METAL TRADESMAN TO SMACNA STANDARDS. RE-ASSEMBLY OF DUCTWORK SHALL INCLUDE RE-SEALING OF JOINTS WITH APPROVED OUTDOOR DUCT SEALANT.
- REFER TO HAZMAT REPORT IF AVAILABLE TO CONFIRM PRESENCE OF HAZARDOUS MATERIALS ON ROOF AND MECHANICAL EQUIPMENT. MECHANICAL EQUIPMENT TO BE HANDLED AS PER HAZMAT REGULATIONS IF HAZARDOUS MATERIALS ARE PRESENT.
- ALL RE-INSTALLED AND NEW MECHANICAL/ELECTRICAL EQUIPMENT SHALL BE APPROPRIATELY ANCHORED/RESTRAINED. DESIGN AND FIELD REVIEW SHALL BE COMPLETED BY A QUALIFIED SEISMIC ENGINEER. LETTERS OF ASSURANCE SHALL BE SUBMITTED.
- PRIOR TO COMMENCEMENT OF WORK, CONFIRM OPERATION OF ALL MECHANICAL EQUIPMENT ON THE ROOF AND REPORT ANY DEFICIENCIES TO THE DEPARTMENTAL REPRESENTATIVE. UPON REINSTALLATION, EQUIPMENT SHALL BE TESTED/COMMISSIONED TO ENSURE OPERATIONAL.
- EQUIPMENT LISTED SHALL BE EITHER REMOVED FROM THE ROOF OR AS A MINIMUM LIFTED AND TEMPORARILY SUPPORTED SO AS TO PROVIDE ADEQUATE CLEARANCE FOR ROOFING AND FLASHING WORK TO BE COMPLETED.
- MECHANICAL ITEMS THAT ARE TO BE RE-INSTALLED SHALL BE REMOVED, STORED AND RE-INSTALLED WITH DUE CARE AS NECESSARY TO PREVENT ANY DAMAGE.

READER NO.	PHOTO	DETAILS	COMMENTS
		1. DISCONNECT POWER SUPPLY WIRING AND REMOVE EXHAUST FAN FROM CURB. 2. COVER OPENING DURING ROOFING WORK. 3. RE-INSTALL FAN AND BASE ON NEW PRE-FAB ROOF CURB AND RE-CONNECT POWER AFTER NEW ROOF IS COMPLETED.	

