New Police Building and Residence

Pelican Narrows, Saskatchewan

POLICE BUILDING ANALYSIS

BUILDING ADDRESS:	3300 BEAR STREET, PELICAN NARROWS, SK			
LEGAL DESCRIPTION:	PARCEL EE REG'D PLAN NO. 88PA01099			
BUILDING OWNER:	GOVERNMENT OF CANADA			
BUILDING AREA:	992m² ± (MAIN BUILDING) 75m² ± (OUT BUILDING)			
STOREYS ABOVE GRADE = 1	STOREYS BELOW GRADE = 0			
NUMBER OF STREETS (as defined by 3.2.2.10) = 1				
USE(s) OF THE BUILDING: POLICE BUILDING / STORAGE				
MAJOR OCCUPANCY CLASSIFICATION(s):	MAIN BUILDING: PART 3: GROUP B DIVISION 1 OUT BUILDING: PART 9: GROUP F DIVISION 3			
BUILDING CODE CLASSIFICATION(s):	MAIN BUILDING: RCMP FIRE PROTECTION DESIGN REQUIREMENTS FOR SPRINKLERED SINGLE STOREY BUILDING UNDER 1200m² OUT BUILDING: NBCC 2015 9.10.2.1, GROUP F DIVISION 3			
BUILDING CONSTRUCTION:	MAIN BUILDING: COMBUSTIBLE AND NON-COMBUSTIBLE CONSTRUCTION PERMITTED OUT BUILDING: COMBUSTIBLE AND NON-COMBUSTIBLE CONSTRUCTION PERMITTED			
LIMITING DISTANCE – MAIN BUILDING				
	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL
AREA OF UNPROTECTED OPENINGS:	4.5%	1.5%	19.4%	12.4%
OPENINGS AND CONSTRUCTION – MAIN BUILDING:				
	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL
EXTERIOR WALL CONSTRUCTION:	NONCOMBUSTIBLE	NONCOMBUSTIBLE	NONCOMBUSTIBLE	NONCOMBUSTIBLE
REQUIRED EXTERIOR WALL FIRE RESISTANCE RATING:	N/A	N/A	N/A	N/A
EXTERIOR WALL CLADDING:	NONCOMBUSTIBLE	NONCOMBUSTIBLE	NONCOMBUSTIBLE	NONCOMBUSTIBLE
LIMITING DISTANCE – OUT BUILDING				
	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL
MAXIMUM AREA OF UNPROTECTED OPENINGS:	49%	100%	100%	100%
OPENINGS AND CONSTRUCTION – OUT BUILDING:				
	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL
EXTERIOR WALL CONSTRUCTION:	COMBUSTIBLE	COMBUSTIBLE	COMBUSTIBLE	COMBUSTIBLE
REQUIRED EXTERIOR WALL FIRE RESISTANCE RATING:	1HR	N/A	N/A	N/A
EXTERIOR WALL CLADDING:	NONCOMBUSTIBLE	NONCOMBUSTIBLE	NONCOMBUSTIBLE	NONCOMBUSTIBLE

OCCUPANT LOAD:

ROOM NO.:	TYPE OF USE:	AREA:	OCCUPANT LOAD:
104, 116	NON-FIXED TABLES AND CHAIRS (0.95m²/PERSON)	46.7m²	50
126	BASED ON SPACE OF EXERCISE EQUIPMENT		8
106,107,113,114,115,134,138,141, 148	OFFICES (9.30m²/PERSON)	204.6m²	22
146,149,152,154,156,157,159, 161, 162,165,166	DETENTION QUARTERS (BASED ON USE)	83.2m²	7
145	STORAGE GARAGE (46.0m²/PERSON)	46.0m²	1
135,137	PROCESS ROOMS (4.6m²/PERSON)	28.4m²	6
118,129,132,136	STORAGE (46.0m²/PERSON)	87.2m²	2
		TOTAL:	96

NUMBER OF EXITS REQUIRED:
-POLICE BUILDING FLOOR AREA REQUIRES 2 EXITS (NBCC 3.4.2.1)
-SERVICE SPACE OVER CELL AREA REQUIRES 2 POINTS OF EGRESS AS IT IS OVER 200m² (NBCC 3.4.2.4.(3))
-OUT-BUILDING REQUIRES 1 EXIT AS IT IS LESS THAN 200m² AND TRAVEL DISTANCE IS LESS THAN 15m (NBCC 9.9.7.4)

GOVERNMENT OF CANADA MANDATED OCCUPANCY FIRE SEPARATIONS FOR THE MAIN BUILDING IN HOURS:		
OFFICE AREA / PROVOST = 1 HR.	PROVOST / SECURE BAY = 1.5 HR.	OFFICE / SECURE BAY = 1.5 HR.
MINIMUM REQUIRED BUILDING CLASSIFICATION FIRE SEPARATIONS IN HOURS:		
OFFICE FLOORS = NONE	PROVOST FLOORS = 3/4HR**	PROVOST WALLS AND CEILING = 1HR*
BEARING WALLS AND STRUCTURE = TO SUIT SUPPORTED STRUCTURES		

*AS PER RCMP FIRE PROTECTION POLICIES AND DESIGN REQUIREMENTS.
**NOT REQUIRED IF CRAWLSPACE SEPARATION BETWEEN PROVOST AREA AND REMAINDER OF BUILDING IS 1 HR FIRE SEPARATION.

REQUIRED FIRE RESISTANCE RATING IN HOURS:

ROOM 118 = 1 HR	ROOM 122 = 0 HR	ROOM 129 = 1 HR	ROOM 132 = 1 HR	ROOM 135 = 1 HR
ROOM 136 = 1 HR	ROOM 137 = 1 HR	PROVOST AREA = 1 HR	ROOM 143 = 0 HR	ROOM 145 = 1.5 HR
ROOM 150 = 0 HR	ROOM 160 = 0 HR	ROOM 201 / 202 / 203 / 204 = 1 HR		

EXIT SIGNS – REQUIRED?	YES	EMERGENCY LIGHTING –REQUIRED?	YES
STANDPIPE & HOSE SYSTEM – REQUIRED?	NO	SMOKE ALARMS – REQUIRED?	YES
FIRE ALARM SYSTEM – REQUIRED?	YES	BARRIER FREE ACCESS –REQUIRED?	YES
SPRINKLER SYSTEM – REQUIRED?	YES	FIRE DAMPERS – REQUIRED?	YES
ATTIC FIRE STOPS – REQUIRED?	NO	PIPING FIRE STOPS – REQUIRED?	YES

WASHROOM REQUIREMENTS:
-WASHROOM REQUIREMENT FOR CELLS IS BASED ON NEED AS PER NBCC 3.7.2.2(9)
-WASHROOM REQUIREMENTS FOR OTHER AREAS BASED ON OCCUPANT LOAD OF 96 FOR BUSINESS AND PERSONAL SERVICES OCCUPANCY WHICH REQUIRES 2 FIXTURES PER SEX.

NAME OF QUALIFIED DESIGNER THAT HAS COMPLETED THIS FORM: Justin Wotherspoon – Architect

HOUSING BUILDING ANALYSIS

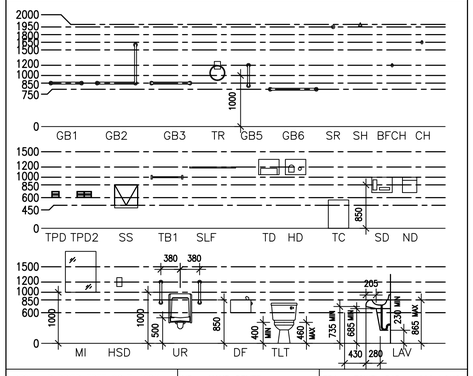
BUILDING ADDRESS:	3300 BEAR STREET, PELICAN NARROWS, SK			
LEGAL DESCRIPTION:	PARCEL EE REG'D PLAN NO. 88PA01099			
BUILDING OWNER:	GOVERNMENT OF CANADA			
BUILDING AREA:	231m² ± (BUILDING FOOTPRINT)			
STOREYS ABOVE GRADE = 2	STOREYS BELOW GRADE = 0			
NUMBER OF STREETS (as defined by 3.2.2.10) = 1				
USE(s) OF THE BUILDING: RESIDENTIAL				
MAJOR OCCUPANCY CLASSIFICATION(s):	GROUP C			
BUILDING CODE CLASSIFICATION(s):	PART 9			
BUILDING CONSTRUCTION:	COMBUSTIBLE AND NONCOMBUSTIBLE			
LIMITING DISTANCE (3.2.3.1–B)				
	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL
LIMITING DISTANCE:	>24.0m	3.0m	7.0m	>15m
LARGEST EXPOSED FACE OF A FIRE COMPARTMENT:	94.0m²	94.0m²	73.8m²	73.8m²
MAXIMUM AREA OF UNPROTECTED OPENINGS:	100%	11%	48%	100%
AREA OF UNPROTECTED OPENINGS PROVIDED:	10.7%	10.7%	16.5%	11.1%
OPENINGS AND CONSTRUCTION:				
	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL
REQUIRED EXTERIOR WALL CONSTRUCTION:	COMBUSTIBLE OR NONCOMBUSTIBLE	COMBUSTIBLE OR NONCOMBUSTIBLE	COMBUSTIBLE OR NONCOMBUSTIBLE	COMBUSTIBLE OR NONCOMBUSTIBLE
REQUIRED EXTERIOR WALL FIRE RESISTANCE RATING:	N/A	1HR	3/4HR	N/A
REQUIRED EXTERIOR WALL CLADDING:	COMBUSTIBLE OR NONCOMBUSTIBLE	NONCOMBUSTIBLE	NONCOMBUSTIBLE	COMBUSTIBLE OR NONCOMBUSTIBLE
OCCUPANT LOAD = 2 PERSONS / BEDROOM = 16				
NUMBER OF EXITS REQUIRED: –1 MINIMUM (9.9.8.2)				
REQUIRED FIRE RESISTANCE RATING IN HOURS:				

FLOORS =1HR	MEZZANINES = N/A	ROOF =	N/A	BEARING ASSEMB. = 1HR	EXIT STAIRWAYS = N/A

EXIT SIGNS – REQUIRED?	NO	EMERGENCY LIGHTING –REQUIRED?	YES
STANDPIPE & HOSE SYSTEM – REQUIRED?	NO	SMOKE ALARMS – REQUIRED?	YES
FIRE ALARM SYSTEM – REQUIRED?	NO	BARRIER FREE ACCESS –REQUIRED?	NO
SPRINKLER SYSTEM – REQUIRED?	NO	FIRE DAMPERS – REQUIRED?	NO
ATTIC FIRE STOPS – REQUIRED?	YES	PIPING FIRE STOPS – REQUIRED?	NO

NAME OF QUALIFIED DESIGNER THAT HAS COMPLETED THIS FORM: Justin Wotherspoon – Architect

ACCESSORIES SCHEDULE



BFCH	BARRIER FREE COAT HOOK	HD	HAND DRYER	TB1	TOWEL BAR – 600 LONG
CH	COAT HOOK	HSD	HAND SOAP DISPENSER	TC	TRASH CAN
DF	DRINKING FOUNTAIN	LAV	LAVATORY	TD	TOWEL DISPENSER
ND	NAPKIN DISPOSAL	MI	MIRROR	TLT	TOILET
GB1	40 ø GRAB BAR –600 LONG	SD	SERVIETTE/TAMPON DISP.	TPD	TOILET PAPER DIS.
GB2	40 ø GRAB BAR –762 LONG	SH	SHOWER HEAD	TPD2	DBL. TOILET PAPER DISP.
GB3	40 ø GRAB BAR –900 LONG	SLF	STAINLESS STEEL SHELF	TR	TOWEL RING
GB5	40 ø GRAB BAR –400 LONG	SR	SHOWER ROD & CURTAIN	UR	URINAL
GB6	40 ø GRAB BAR –900 LONG	SS	SHOWER SEAT	* ALL HEIGHTS TYPICAL U.N.O.	

ABBREVIATIONS SCHEDULE

AA	ANODIZED ALUMINUM	DF	DRINKING FOUNTAIN	HM	HOLLOW METAL	MS	MILD STEEL	STL	STEEL	T.O.S.	TOP OF STEEL
ADO	AUTOMATIC DOOR OPENER	DWG	DRAWING	HMI	HOLLOW METAL INSULATED	MTL.	METAL	STLI	STEEL INSULATED	TYP.	TYPICAL
A.F.F.	ABOVE FINISH FLOOR	ELEV.	ELEVATION	HR	HOUR	TB	TACK BOARD	SCW	SOLID CORE WOOD	UF	UNFINISHED
AL	ALUMINUM	ES	EXPOSED STRUCTURE	IG	INSULATED GLASS	WB	WHITE BOARD	SIM.	SIMILAR	U.N.O.	UNLESS NOTED OTHERWISE
A.T.	ACOUSTIC TILE	EXT	EXTERIOR	INSUL	INSULATION	VC	VISION GLASS	S+V1	SAND AND CLEAR VARNISH	U/S	UNDER SIDE
A.V.B.	AIR VAPOUR BARRIER	EXT'G	EXISTING	MIN	MINUTE / MINIMUM	SG	SPANDREL GLASS	S+V2	SAND, STAIN TO MATCH EXIST., VARNISH	W/	WITH
CF	CONVOLUTED FOAM	FD	FLOOR DRAIN	O.C.	ON CENTER	RF	RF GLASS	TB	TACK BOARD	W/O	WITHOUT
CJ	CONTROL JOINT	FIN	FINISH	P	PAINT	PDS	PULL DOWN SCREEN	TG	TEMPERED GLASS	WB	WHITEBOARD
CONC.	CONCRETE	GALV.	GALVANIZED	PLY	PLYWOOD	PS	PRESSED STEEL	TGI	TEMPERED GLASS INSULATED	WD	WOOD
CONT.	CONTINUOUS	G.B.	GYPSUM BOARD	PT	PRESSURE TREATED	RA	ROOF ANCHOR	T.O.	TOP OF	WC	WIRED GLASS
C/W	COMPLETE WITH	HCW	HOLLOW CORE WOOD	REQ'D	REQUIRED	SST	STAINLESS STEEL	T.O.C.	TOP OF CONCRETE	WOM	WALK OFF MATT

SYMBOL SCHEDULE

PROJECT NORTH
GRID REFERENCE (1 / A)
TITLE (1 / A1 SCALE)
INDICATES SECTION NUMBER
SECTION INDICATOR (1 / A1)
INDICATES PAGE ON WHICH SECTION IS SHOWN (CROSS REFERENCING)
ROOM NAME AND ROOM NUMBER (ROOM / 1)
INDICATES DETAIL NUMBER
DETAIL INDICATOR (1 / A1)
INDICATES PAGE ON WHICH DETAIL IS SHOWN (CROSS REFERENCING)
ARCHITECTURAL REFERENCE
ELEVATION REFERENCE (100 000 / 576.3)
GEODETIC REFERENCE
DOOR NUMBER (1)
CONSTRUCTION NOTES (1)
WINDOW TYPE (1)
INDICATES ELEVATION NUMBER
INTERIOR ELEVATION INDICATOR (DOOR / 1)
INDICATES DETAIL AND PAGE ON WHICH ELEVATION IS SHOWN (CROSS REFERENCING)
EXISTING DOOR
DEMOLISHED DOOR
NEW DOOR
WALL, FLOOR OR ROOF TYPE (W1)
FIN. FLOOR EL. — FINISH FLOOR ELEVATION

DRAWING LIST

ARCHITECTURAL

A0.1 COVER SHEET
A0.2 CONSTRUCTION TYPE SCHEDULES
A0.3 DOOR & WINDOWS SCHEDULES
A1.1 SITE PLAN, SITE DETAILS
A1.2 SITE DETAILS
A2.1 CRAWLSPACE PLAN, CRAWLSPACE DETAILS
A2.2 MAIN FLOOR PLAN
A2.3 REFLECTED CEILING PLAN
A2.4 SERVICE SPACE PLAN, SERVICE SPACE CEILING PLAN, OUT BUILDING PLANS
A2.5 ENLARGED FLOOR PLANS
A2.6 CELL PLANS AND DETAILS
A2.7 ROOF PLAN
A3.1 BUILDING ELEVATIONS
A3.2 BUILDING ELEVATIONS
A3.3 BUILDING SECTIONS
A3.4 BUILDING SECTIONS
A4.1 PLAN DETAILS
A4.2 DETAILS
A4.3 DETAILS
A4.4 DETAILS
A4.5 DETAILS
A4.6 DETAILS
A4.7 PLAN DETAILS
A4.8 WINDOW DETAILS
A4.9 DOOR DETAILS, WINDOW DETAILS
A4.10 DOOR DETAILS
A4.11 INTERIOR GLAZING DETAILS, PARTITION DOOR DETAILS
A4.12 OUT BUILDING DETAILS
A5.1 INTERIOR ELEVATIONS
A5.2 INTERIOR ELEVATIONS
A5.3 INTERIOR ELEVATIONS
A5.4 INTERIOR ELEVATIONS
A5.5 INTERIOR ELEVATIONS
A5.6 INTERIOR ELEVATIONS
A5.7 INTERIOR ELEVATIONS
A6.1 MILLWORK DETAILS
A6.2 MILLWORK DETAILS
A6.3 MILLWORK DETAILS
A7.1 FINISHES PLAN
A8.1 EQUIPMENT PLAN
A8.2 FURNITURE PLAN (NOT IN CONTRACT)
A9.1 HOUSING: MAIN FLOOR PLAN, MAIN FLOOR CEILING PLAN, CRAWLSPACE PLAN, SCHEDULES
A9.2 HOUSING: SECOND FLOOR PLAN, SECOND FLOOR CEILING PLAN, ROOF PLAN, SCHEDULES
A9.3 HOUSING: EXTERIOR ELEVATIONS
A9.4 HOUSING: EXTERIOR ELEVATIONS, BUILDING SECTIONS
A9.5 HOUSING: BUILDING SECTIONS, DETAILS
A9.6 HOUSING: DETAILS
A9.7 HOUSING: INTERIOR ELEVATIONS, MILLWORK DETAILS

STRUCTURAL

S0.0 TYPICAL DETAILS
S0.1 TYPICAL DETAILS
S1.1 FOUNDATION PLAN
S1.2 MAIN FLOOR FRAMING PLAN
S1.3 EXTERIOR ENTRANCE SLAB
S2.1 LOWER ROOF FRAMING PLAN
S2.2 UPPER ROOF FRAMING PLAN
S2.3 FRAMING ELEVATIONS
S2.4 FRAMING ELEVATIONS, OUT BUILDING
S3.1 FOUNDATION DETAILS
S3.2 SECTIONS AND DETAILS
S3.3 SECTIONS AND DETAILS
S3.4 SECTIONS AND DETAILS
S3.5 SECTIONS AND DETAILS
S3.6 SECTIONS AND DETAILS
S3.7 SECTIONS AND DETAILS
S3.8 SECTIONS AND DETAILS
S3.9 SECTIONS AND DETAILS
S4.1 HOUSING: FOUNDATION PLAN
S4.2 HOUSING: MAIN FLOOR FRAMING PLAN
S4.3 HOUSING: SECOND FLOOR FRAMING PLAN
S4.4 HOUSING: ROOF FRAMING PLAN
S4.5 HOUSING: SECTIONS AND DETAILS
S4.6 HOUSING: SECTIONS AND DETAILS

MECHANICAL

M1.1 EQUIPMENT SCHEDULE
M1.2 EQUIPMENT SCHEDULE
M1.3 SITE PLAN – DEMOLITION, EQUIPMENT SCHEDULE
M1.4 SITE PLAN, DETAILS
M2.1 CRAWLSPACE PLAN, PLUMBING
M2.2 MAIN FLOOR PLAN, PLUMBING
M2.3 HOUSING FLOOR PLANS, PLUMBING
M3.1 CRAWLSPACE PLAN, HEATING
M3.2 MAIN FLOOR PLAN, HEATING
M3.3 MAIN FLOOR PLAN, INFLOOR HEATING
M4.1 CRAWLSPACE PLAN, VENTILATION
M4.2 MAIN FLOOR PLAN, VENTILATION
M4.3 HOUSING FLOOR PLANS, VENTILATION
M5.1 MAIN FLOOR PLAN, FIRE PROTECTION
M5.2 MECHANICAL ROOM PLAN, FIRE PROTECTION AND SCHEMATICS
M6.1 MECHANICAL ROOM NORTH, PLUMBING AND HEATING
M6.2 MECHANICAL ROOM SOUTH, PLUMBING AND HEATING
M6.3 MECHANICAL ROOM NORTH, VENTILATION – EXHAUST AIR
M6.4 MECHANICAL ROOM SOUTH, VENTILATION – EXHAUST AIR
M6.5 MECHANICAL ROOM NORTH, VENTILATION – SUPPLY
M6.6 MECHANICAL ROOM SOUTH, VENTILATION – SUPPLY
M6.7 MECHANICAL ROOM, SECTIONS
M6.8 MECHANICAL SCHEMATICS
M6.9 MECHANICAL SCHEMATICS AND DETAILS

ELECTRICAL

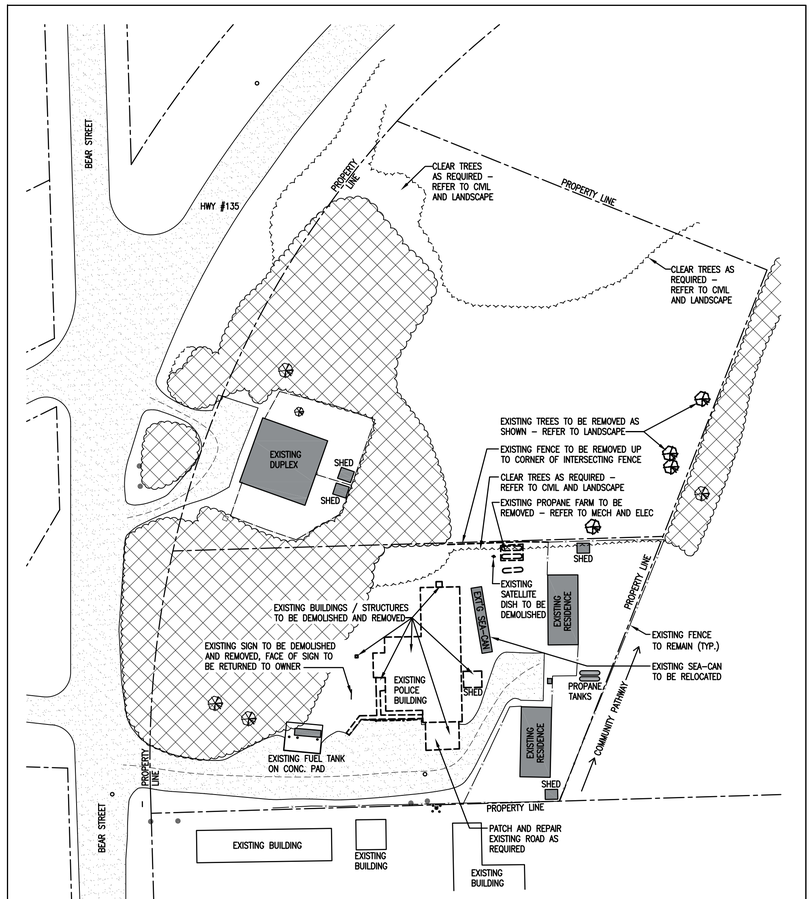
E1.1 SITE PLAN & SYMBOL SCHEDULE
E2.1 MAIN FLOOR PLAN LIGHTING PLAN
E2.2 CRAWLSPACE LIGHTING PLAN
E3.1 MAIN FLOOR PLAN POWER & SYSTEMS PLAN
E3.2 CRAWLSPACE POWER & SYSTEMS PLAN
E3.3 MAIN FLOOR PLAN FIRE ALARM PLAN
E3.4 CRAWLSPACE FIRE ALARM PLAN
E4.1 SERVICE SPACE & OUT BUILDING LIGHTING PLAN, POWER & SYSTEMS PLAN
E4.2 SERVICE SPACE & OUT BUILDING FIRE ALARM PLAN, POWER & SYSTEMS PLAN
E5.1 ROOF PLAN POWER & SYSTEMS PLAN
E6.1 SINGLE LINE DIAGRAM
E6.2 MOTOR EQUIPMENT SCHEDULE
E6.3 MOTOR EQUIPMENT SCHEDULE NOTES
E6.4 PANEL SCHEMATICS
E7.1 ELECTRICAL DETAILS
E7.2 ELECTRICAL DETAILS
E7.3 ELECTRICAL DETAILS
E7.4 ELECTRICAL DETAILS
E8.1 CCTV – ALARM SYSTEMS AND ACCESS CONTROL CONDUIT ROUGH IN PLAN WITH EAC & IDS
E8.2 CCTV – ALARM SYSTEMS AND ACCESS CONTROL CONDUIT ROUGH IN PLAN WITH AUDIO & VIDEO
E8.3 CCTV – ALARM SYSTEMS AND ACCESS CONTROL CONDUIT DETAILS
E8.4 CCTV – ALARM SYSTEMS AND CORNER MOUNT CAMERA AND DETAILS
E8.5 CCTV – ALARM SYSTEMS AND ACCESS CONTROL CONDUIT SITE PLAN
E9.1 HOUSING UNIT MAIN FLOOR LIGHTING AND POWER AND SYSTEMS PLAN
E9.2 HOUSING UNIT PANEL SCHEMATIC / MOTOR EQUIPMENT SCHEDULE AND DETAILS

CIVIL

C1 EXISTING SITE PLAN
C2 SITE GRADING PLAN, FINISHED GRADE CONTOURS AND SECTIONS
C3 ROCK BLASTING SECTIONS
C4 DETAILS

LANDSCAPE

L1.1 SITE PREPARATION & CLEARING
L2.1 LANDSCAPE LAYOUT
L3.1 LANDSCAPE DETAILS & DETAIL PLANTING



1 / A0.1 SITE DEMO PLAN
1:750

SEPW Architecture Inc.
■ 109 - 3725 Paiqua Street, Regina, SK, S4S 6W8 ph: (306) 569-2255
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SASKATCHEWAN ASSOCIATION OF ARCHITECTS
JUSTIN WOTHERSPOON
REGISTERED ARCHITECT
SASKATOON
OCT. 19, 2018

DO NOT SCALE DRAWINGS

5		
4		
3		
2		
1		
0	ISSUED FOR TENDER	18/10/19
Revision/ Revision	Description/Description	Date/Date

Client/client

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
DE

Drawn by/Dessine par
JMM

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

COVER SHEET

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	A0.1	0

PWGSC – A1 – 841X594

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

A000

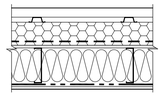
EXTERIOR WALL SCHEDULE

W1

FINISH	PREFINISHED METAL SIDING	
	22 AIR SPACE	
	VERT. 22mm GALV. FURRING BAR @ 400 O.C.	
INSUL.	100 MINERAL FIBRE BOARD INSULATION	
	100 CASCADIA CLIPS	
	VAPOUR PERMEABLE AIR BARRIER	
	13mm GLASS MAT SHEATHING	
STRU.	152 STEEL STUDS – SEE STRUCT. FOR SPACING	
INSUL.	MINERAL FIBRE BATT INSUL TO FILL CAVITY (RSI 3.96)	
	6 mil POLYETHYLENE VAPOUR BARRIER	
	13mm GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | STC | –

NOTES:

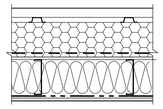


W1A

FINISH	PREFINISHED METAL SIDING	
	22 AIR SPACE	
	VERT. 22mm GALV. FURRING BAR @ 400 O.C.	
INSUL.	150 MINERAL FIBRE BOARD INSULATION	
	150 CASCADIA CLIPS	
	VAPOUR PERMEABLE AIR BARRIER	
	13mm GLASS MAT SHEATHING	
STRU.	152 STEEL STUDS – SEE STRUCT. FOR SPACING	
INSUL.	MINERAL FIBRE BATT INSUL TO FILL CAVITY (RSI 3.96)	
	6 mil POLYETHYLENE VAPOUR BARRIER	
	13mm GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | STC | –

NOTES:

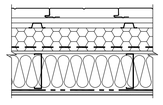


W2

FINISH	PREFINISHED METAL SIDING	
	44 AIR SPACE	
	HORIZ. 22mm GALV. FURRING BAR @ 400 O.C.	
	VERT. 22mm GALV. FURRING BAR @ 400 O.C.	
INSUL.	100 MINERAL FIBRE BOARD INSULATION	
	100 CASCADIA CLIPS	
	VAPOUR PERMEABLE AIR BARRIER	
	13mm GLASS MAT SHEATHING	
STRU.	152 STEEL STUDS – SEE STRUCT. FOR SPACING	
INSUL.	MINERAL FIBRE BATT INSUL TO FILL CAVITY (RSI 3.96)	
	6 mil POLYETHYLENE VAPOUR BARRIER	
	13mm GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | STC | –

NOTES:

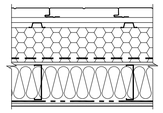


W2A

FINISH	PREFINISHED METAL SIDING	
	44 AIR SPACE	
	HORIZ. 22mm GALV. FURRING BAR @ 400 O.C.	
	VERT. 22mm GALV. FURRING BAR @ 400 O.C.	
INSUL.	150 MINERAL FIBRE BOARD INSULATION	
	150 CASCADIA CLIPS	
	VAPOUR PERMEABLE AIR BARRIER	
	13mm GLASS MAT SHEATHING	
STRU.	152 STEEL STUDS – SEE STRUCT. FOR SPACING	
INSUL.	MINERAL FIBRE BATT INSUL TO FILL CAVITY (RSI 3.96)	
	6 mil POLYETHYLENE VAPOUR BARRIER	
	13mm GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | STC | –

NOTES:

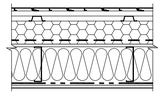


W3

FINISH	PREFINISHED ALUMINUM CLADDING PROFILE 1 (07 46 13)	
	44 AIR SPACE	
	HORIZ. 22mm GALV. FURRING BAR @ 800 O.C.	
	VERT. 22mm GALV. FURRING BAR @ 400 O.C.	
INSUL.	100 MINERAL FIBRE BOARD INSULATION	
	100 CASCADIA CLIPS	
	VAPOUR PERMEABLE AIR BARRIER	
	13mm GLASS MAT SHEATHING	
STRU.	152 STEEL STUDS – SEE STRUCT. FOR SPACING	
INSUL.	MINERAL FIBRE BATT INSUL TO FILL CAVITY (RSI 3.96)	
	6 mil POLYETHYLENE VAPOUR BARRIER	
	13mm GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | STC | –

NOTES:

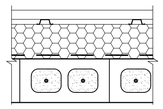


W4

FINISH	PREFINISHED METAL SIDING	
	22 AIR SPACE	
	VERT. 22mm GALV. FURRING BAR @ 400 O.C.	
INSUL.	150 MINERAL FIBRE BOARD INSULATION	
	150 CASCADIA CLIPS	
	AIR/VAPOUR BARRIER	
STRU.	190 CORE FILLED CONCRETE BLOCK	
FINISH	FINISH AS SCHEDULED	

FRR | STC | –

NOTES:

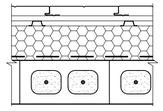


W4A

FINISH	PREFINISHED METAL SIDING	
	44 AIR SPACE	
	HORIZ. 22mm GALV. FURRING BAR @ 400 O.C.	
	VERT. 22mm GALV. FURRING BAR @ 400 O.C.	
INSUL.	150 MINERAL FIBRE BOARD INSULATION	
	150 CASCADIA CLIPS	
	AIR/VAPOUR BARRIER	
STRU.	190 CORE FILLED CONCRETE BLOCK	
FINISH	FINISH AS SCHEDULED	

FRR | STC | –

NOTES:

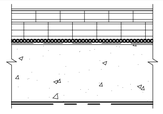


W5

INSUL.	50 CONCRETE FACED INSULATED WALL PANEL (RSI 1.76)	
INSUL.	75 RIGID INSULATION (RSI 2.64)	
	DRAINAGE MAT	
	MEMBRANE WATERPROOFING	
STRU.	250 CONCRETE GRADE BEAM	
	CRAWLSPACE VAPOUR BARRIER	

FRR | STC | –

NOTES:



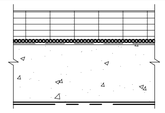
EXTERIOR WALL SCHEDULE

W5A

INSUL.	125 RIGID INSULATION (RSI 2.64)	
	DRAINAGE MAT	
	MEMBRANE WATERPROOFING	
STRU.	250 CONCRETE GRADE BEAM	
	CRAWLSPACE VAPOUR BARRIER	

FRR | STC | –

NOTES:

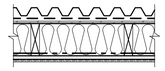


W6

FINISH	PREFINISHED METAL SIDING	
	VAPOUR PERMEABLE AIR BARRIER	
	13mm PLYWOOD SHEATHING	
STRU.	38x140mm WOOD STUDS @ 400mm O.C.	
INSUL.	MINERAL FIBRE BATT INSUL TO FILL CAVITY (RSI 3.87)	
	6 mil POLYETHYLENE VAPOUR BARRIER	
	16mm TYPE 'X' GYPSUM BOARD	
	12mm OSB SHEATHING	
FINISH	FINISH AS SCHEDULED	

FRR | 1 HR | STC | –

NOTES: FIRE RATING ACHIEVED THROUGH NBCC 2015 APPENDIX D

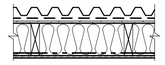


W7

FINISH	PREFINISHED METAL SIDING	
	VAPOUR PERMEABLE AIR BARRIER	
	13mm PLYWOOD SHEATHING	
STRU.	38x140mm WOOD STUDS @ 400mm O.C.	
INSUL.	MINERAL FIBRE BATT INSUL TO FILL CAVITY (RSI 3.87)	
	6 mil POLYETHYLENE VAPOUR BARRIER	
	12mm OSB SHEATHING	
FINISH	FINISH AS SCHEDULED	

FRR | – | STC | –

NOTES:



PARTITION SCHEDULE

GENERAL NOTES:

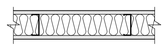
- FIRE STOP AROUND PERIMETER, PENETRATIONS AND JOINTS IN EACH ASSEMBLY IDENTIFIED ANYWHERE IN DRAWINGS OR SCHEDULES AS BEING A FIRE SEPARATION.
- ACOUSTICAL SEAL AIR TIGHT AROUND PERIMETER, PENETRATIONS AND JOINTS IN THOSE STC RATED ASSEMBLIES NOT FIRE RATED, USING NEOPRENE GASKETS AND ACOUSTICAL SEALANT, UNLESS OTHERWISE INDICATED.
- FOR ALL SEPARATIONS WRAP GYPSUM BOARD FINISH INSIDE ANY RECESSES.
- ALL PARTITIONS TO EXTEND TO UNDERSIDE OF ROOF DECK. FILL METAL DECK FLUTES AND SEAL U.N.O.
- REFER TO SCHEDULE IN SPECIFICATION FOR WALL FINISHES.
- PROVIDE SOLID WOOD BLOCKING IN WALLS AND PARTITIONS FOR THE ATTACHMENT OF MILLWORK AND EQUIPMENT. SEE INTERIOR ELEVATIONS AND EQUIPMENT PLAN.
- CONFIRM SIZE, NUMBER, AND LOCATIONS OF ALL SECURE DUCT PENETRATIONS WITH MECH.
- REFER TO 1/A4.7 FOR THE ATTACHMENT OF THE 19mm @9/10 ROLLED, FLATTENED STEEL MESH GALV.
- REFER TO SCHEDULE IN SPECIFICATION FOR LEVEL OF INTERIOR GYPSUM BOARD FINISHES.

P1

FINISH	FINISH AS SCHEDULED	
	13mm GYPSUM BOARD	
STRUC	92mm STEEL STUDS @ 400mm O.C.	
	FILL CAVITY WITH MINERAL FIBRE BATT INSULATION	
	13mm GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | – | STC | –

NOTES:

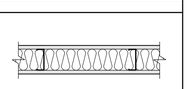


P2

FINISH	FINISH AS SCHEDULED	
	16mm TYPE 'X' GYPSUM BOARD	
STRUC	92mm STEEL STUDS @ 400mm O.C.	
	FILL CAVITY WITH MINERAL FIBRE BATT INSULATION	
	16mm TYPE 'X' GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | 1 HR | STC | 47

NOTES: SIM. TO NBCC 2015 ASSEMBLY S4b

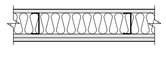


P3

FINISH	FINISH AS SCHEDULED	
	16mm TYPE 'X' GYPSUM BOARD	
STRUC	92mm STEEL STUDS @ 400mm O.C.	
	FILL CAVITY WITH MINERAL FIBRE BATT INSULATION	
	2 LAYERS 16mm TYPE 'X' GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | 1 HR | STC | 52

NOTES: SIM. TO NBCC 2015 ASSEMBLY S5b

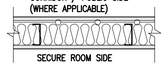


P4

FINISH	FINISH AS SCHEDULED	
	16mm TYPE 'X' GYPSUM BOARD	
	19mm @9/10 ROLLED, FLATTENED STEEL MESH GALV.	
STRUC	92mm STEEL STUDS @ 400mm O.C.	
	FILL CAVITY WITH MINERAL FIBRE BATT INSULATION	
	16mm TYPE 'X' GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | 1 HR | STC | 47

NOTES: SIM. TO NBCC 2015 ASSEMBLY S4b

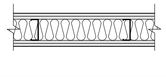


P5

FINISH	FINISH AS SCHEDULED	
	2 LAYERS 13mm TYPE 'X' GYPSUM BOARD	
	FILL CAVITY WITH MINERAL FIBRE BATT INSULATION	
STRUC	92mm STEEL STUDS @ 400mm O.C.	
	2 LAYERS 13mm TYPE 'X' GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | 1.5 HR | STC | 54

NOTES: SIM. TO NBCC 2015 ASSEMBLY S6d

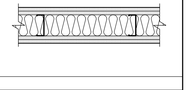


P6

FINISH	FINISH AS SCHEDULED	
	2 LAYERS 16mm TYPE 'X' GYPSUM BOARD	
	FILL CAVITY WITH MINERAL FIBRE BATT INSULATION	
STRUC	92mm STEEL STUDS @ 400mm O.C.	
	2 LAYERS 16mm TYPE 'X' GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | 2 HR | STC | 55

NOTES: SIM. TO NBCC 2015 ASSEMBLY S6b

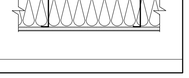


P7

FINISH	FINISH AS SCHEDULED	
	16mm TYPE 'X' GYPSUM BOARD	
STRUC	152mm STEEL STUDS @ 400mm O.C.	
	FILL CAVITY WITH MINERAL FIBRE BATT INSULATION	
	16mm TYPE 'X' GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | 1 HR | STC | 51

NOTES: SIM. TO NBCC 2015 ASSEMBLY S7a



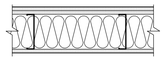
PARTITION SCHEDULE (CONT'D)

P8

FINISH	FINISH AS SCHEDULED	
	2 LAYERS 16mm TYPE 'X' GYPSUM BOARD	
STRUC	152mm STEEL STUDS @ 400mm O.C.	
	FILL CAVITY WITH MINERAL FIBRE BATT INSULATION	
	16mm TYPE 'X' GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | 1.5 HR | STC | 55

NOTES: SIM. TO NBCC 2015 ASSEMBLY S8a



P9

FINISH	FINISH AS SCHEDULED	
	2 LAYERS 16mm TYPE 'X' GYPSUM BOARD	
STRUC	152mm STEEL STUDS @ 400mm O.C.	
	16mm TYPE 'X' GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | 1 HR | STC | 45

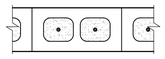
NOTES: SIM. TO NBCC 2015 ASSEMBLY S8c

P10

FINISH	FINISH AS SCHEDULED	
STRUC	190 CORE FILLED CONCRETE BLOCK VERTICALLY REINFORCED W/ 10M REBAR GROUTED INTO EACH VOID AND ANCHORED TO FLOOR AND CEILING	
FINISH	FINISH AS SCHEDULED	
	(REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT OF LOAD-BEARING BLOCK WALLS)	

FRR | 1.5 HR | STC | 50

NOTES: SIM. TO NBCC 2015 ASSEMBLY B1b

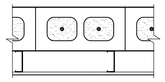


P11

FINISH	FINISH AS SCHEDULED	
STRUC	190 CORE FILLED CONCRETE BLOCK VERTICALLY REINFORCED W/ 10M REBAR GROUTED INTO EACH VOID AND ANCHORED TO FLOOR AND CEILING	
	92mm STEEL STUDS @ 400mm O.C.	
	13mm GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | | STC |

NOTES:

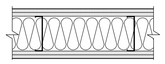


P12

FINISH	FINISH AS SCHEDULED	
	2 LAYERS 16mm TYPE 'X' GYPSUM BOARD	
	FILL CAVITY WITH MINERAL FIBRE BATT INSULATION	
STRUC	152mm STEEL STUDS @ 400mm O.C.	
	2 LAYERS 16mm TYPE 'X' GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | 2 HR | STC | 59

NOTES: SIM. TO NBCC 2015 ASSEMBLY S9a

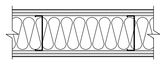


P13

FINISH	FINISH AS SCHEDULED	
	2 LAYERS 13mm TYPE 'X' GYPSUM BOARD	
	FILL CAVITY WITH MINERAL FIBRE BATT INSULATION	
STRUC	152mm STEEL STUDS @ 400mm O.C.	
	2 LAYERS 13mm TYPE 'X' GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | 1.5 HR | STC | 57

NOTES: SIM. TO NBCC 2015 ASSEMBLY S9b



P14

STRUC	152mm STEEL STUDS @ 400mm O.C.	
	16mm TYPE 'X' GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | – | STC | –

NOTES:

P15

STRUC	92mm STEEL STUDS @ 400mm O.C.	
	16mm TYPE 'X' GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | – | STC | –

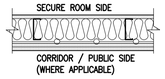
NOTES:

P16

FINISH	FINISH AS SCHEDULED	
	16mm TYPE 'X' GYPSUM BOARD	
STRUC	92mm STEEL STUDS @ 400mm O.C.	
	FILL CAVITY WITH MINERAL FIBRE BATT INSULATION	
	19mm @9/10 ROLLED, FLATTENED STEEL MESH GALV.	
	2 LAYERS 16mm TYPE 'X' GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | 1 HR | STC | 52

NOTES: SIM. TO NBCC 2015 ASSEMBLY S5b

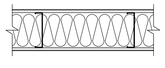


P17

FINISH	FINISH AS SCHEDULED	
	13mm GYPSUM BOARD	
STRUC	152mm STEEL STUDS @ 400mm O.C.	
	FILL CAVITY WITH MINERAL FIBRE BATT INSULATION	
	13mm GYPSUM BOARD	
FINISH	FINISH AS SCHEDULED	

FRR | – | STC | –

NOTES:

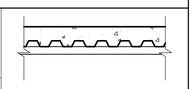


FLOOR SCHEDULE

F1

FINISH AS SCHEDULED
CONCRETE SLAB ON METAL DECK – REFER TO STRUCTURAL
OPEN WEB STEEL JOISTS – REFER TO STRUCTURAL

FRR | – | STC | –



F2

CONCRETE SLAB – REFER TO STRUCTURAL

FRR | 1 HR | STC | 52

F3

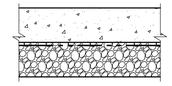
CRAWLSPACE VAPOUR BARRIER
50mm SAND
COMPACTED TYPE 8 GRANULAR TO LEVEL BEDROCK
BEDROCK

FRR | – | STC | –

F4

150mm CONCRETE SLAB – REFER TO STRUCTURAL
POLYETHYLENE VAPOUR BARRIER
150mm COMPACTED GRANULAR FILL
BEDROCK

FRR | – | STC | –



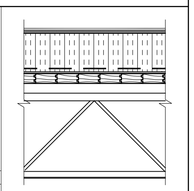
ROOF SCHEDULE

R1

ROOF MEMBRANE
PROTECTION PANEL
POLYISO INSULATION (RSI 7.25/R41.1 MIN.)
VAPOUR RETARDER
13mm GLASS MAT GYPSUM BOARD
WOOD DECK (SEE STRUCTURAL)
OPEN WEB STEEL JOISTS C/W CONTINUOUS WOOD NAILER
FINISH AS SCHEDULED

FRR | – | STC | –

NOTES:

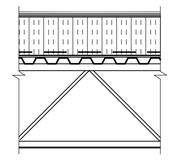


R2

ROOF MEMBRANE
PROTECTION PANEL
TAPERED POLYISO INSULATION (RSI 7.25/R41.1 MIN.)
VAPOUR RETARDER
13mm GLASS MAT GYPSUM BOARD
METAL DECK
OPEN WEB STEEL JOISTS
FINISH AS SCHEDULED

FRR | – | STC | –

NOTES:

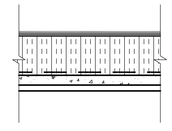


R3

ROOF MEMBRANE
PROTECTION PANEL
TAPERED POLYISO INSULATION (RSI 7.25/R41.1 MIN.)
VAPOUR RETARDER
CONCRETE TOPPING
METAL DECK
STRUCTURAL STEEL (SEE STRUCT.)
FINISH AS SCHEDULED

FRR | – | STC | –

NOTES:

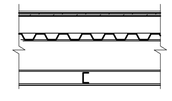


R4

ROOF MEMBRANE
19mm PLYWOOD SHEATHING
PT WOOD BLOCKING @ 600mm O.C.
METAL DECK – REFER TO STRUCTURAL
STRUCTURAL STEEL – REFER TO STRUCTURAL
STEEL STUD FRAMING
PREFINISHED ALUMINUM SOFFIT PROFILE 1 (TO MATCH ALUMINUM SIDING – SEE 07 46 13)

FRR | – | STC | –

NOTES:

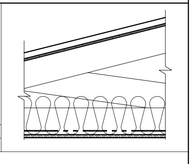


R5

PREFINISHED METAL ROOFING
ROOF UNDERLAYMENT MEMBRANE
13mm PLYWOOD SHEATHING c/w METAL H-CLIPS
WOOD TRUSSES (SEE STRUCT.)
LOOSE FILL INSUL (RSI 7.0/R40 MIN.)
POLYETHYLENE VAPOUR BARRIER
12mm OSB SHEATHING
FINISH AS SCHEDULED

FRR | – | STC | –

NOTES:



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SASKATCHEWAN ASSOCIATION OF ARCHITECTS
JUSTIN WATERSPOON
REGISTERED ARCHITECT
SASKATOON
OCT. 17, 2018

DO NOT SCALE DRAWINGS

Revision/ Revision	Description/Description	Date/Date
5		
4		
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0	ISSUED FOR TENDER	18/10/19

Client/client

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
DE

Drawn by/Dessine par
JMM

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie

Client/client

Drawing title/Titre du dessin

CONSTRUCTION TYPE SCHEDULES

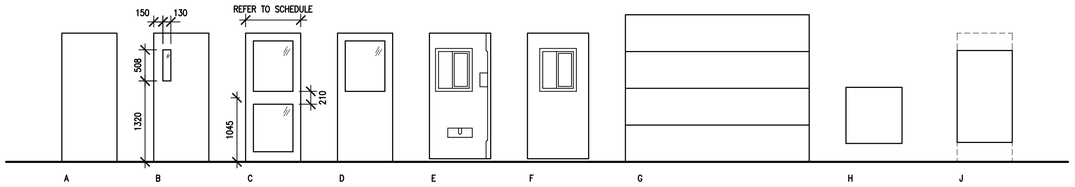
Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	A0.2	0

PWGSC – A1 – 841X594

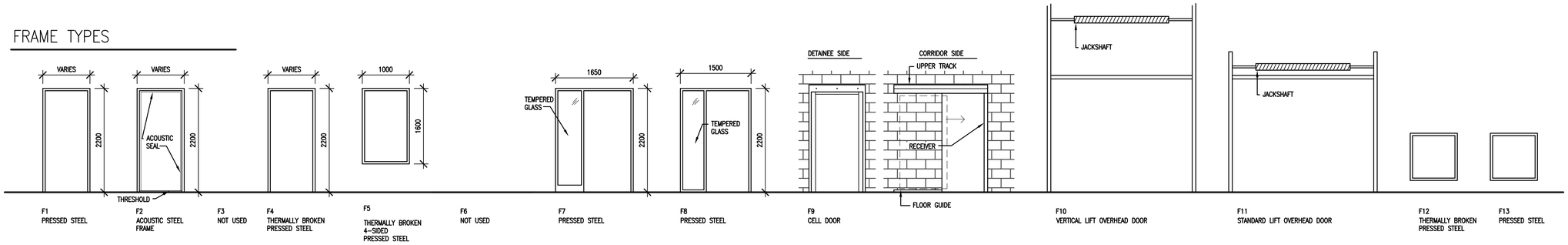
0 10 20 30 40 50 60 70 80 90 100mm

A000

DOOR TYPES



FRAME TYPES



F1 PRESSED STEEL

F2 ACOUSTIC STEEL FRAME

F3 NOT USED

F4 THERMALLY BROKEN PRESSED STEEL

F5 THERMALLY BROKEN 4-SIDED PRESSED STEEL

F6 NOT USED

F7 PRESSED STEEL

F8 PRESSED STEEL

F9 CELL DOOR

F10 VERTICAL LIFT OVERHEAD DOOR

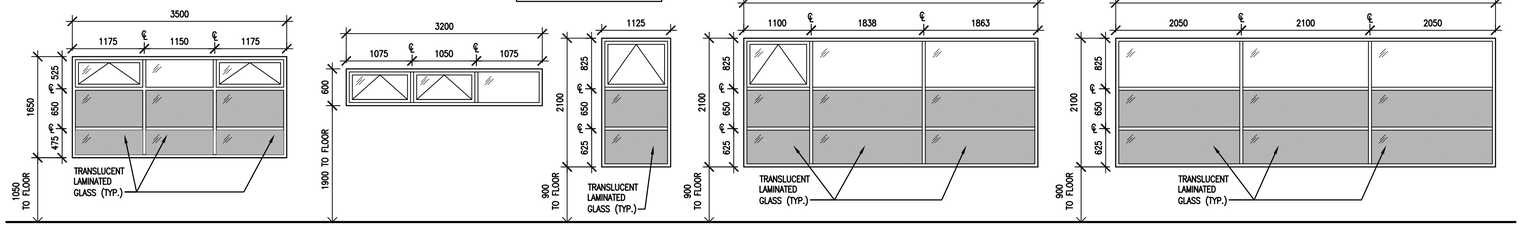
F11 STANDARD LIFT OVERHEAD DOOR

F12 THERMALLY BROKEN PRESSED STEEL

F13 PRESSED STEEL

WINDOW TYPES

NOTE: ALL EXTERIOR WINDOWS TO HAVE TRIPLE GLAZING



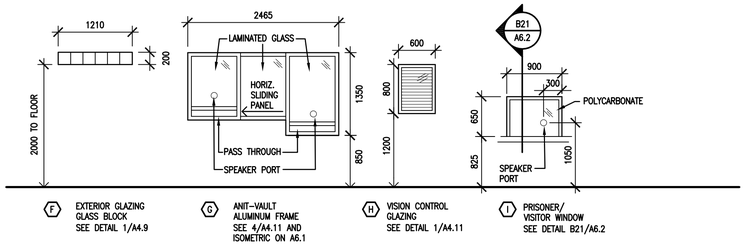
A EXTERIOR FIXED/ OPERABLE GLAZING FIBERGLASS FRAME SEE A4.8

B EXTERIOR FIXED/ OPERABLE GLAZING FIBERGLASS FRAME SEE A4.8

C EXTERIOR FIXED/ OPERABLE GLAZING FIBERGLASS FRAME SEE A4.8

D EXTERIOR FIXED/ OPERABLE GLAZING FIBERGLASS FRAME SEE A4.8

E EXTERIOR FIXED GLAZING FIBERGLASS FRAME SEE A4.8



F EXTERIOR GLAZING GLASS BLOCK SEE DETAIL 1/A4.9

G ANIT-VAULT ALUMINUM FRAME SEE 4/A4.11 AND ISOMETRIC ON A6.1

H VISION CONTROL GLAZING SEE DETAIL 1/A4.11

I PRISONER/ VISITOR WINDOW SEE DETAIL B21/A6.2

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SASKATCHEWAN ASSOCIATION OF ARCHITECTS
JUSTIN PETERSPOON
REGISTERED ARCHITECT
SASKATOON
OCT. 19, 2018

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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

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DE

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Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

DOOR & WINDOW SCHEDULES

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R-10-2017	A0.3	0

PWGSC – A1 – 841X594

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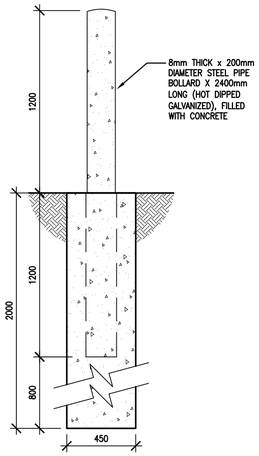
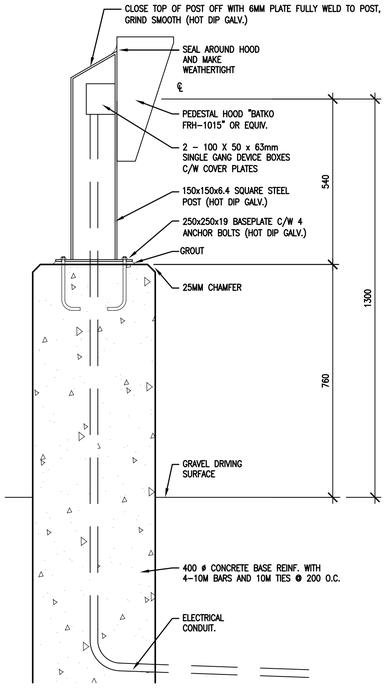
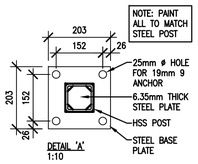
A000

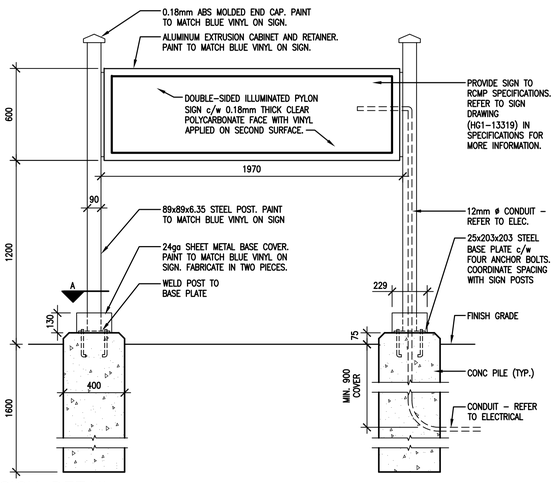


1 A1.1 BOLLARD DETAIL 1:20

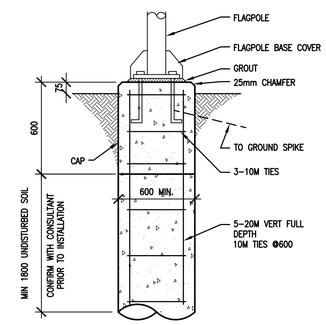


2 A1.1 O/H DOOR OPERATOR PEDESTAL 1:10

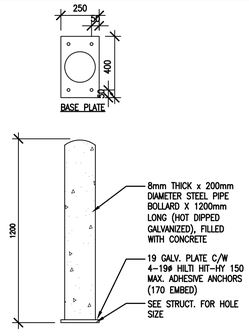




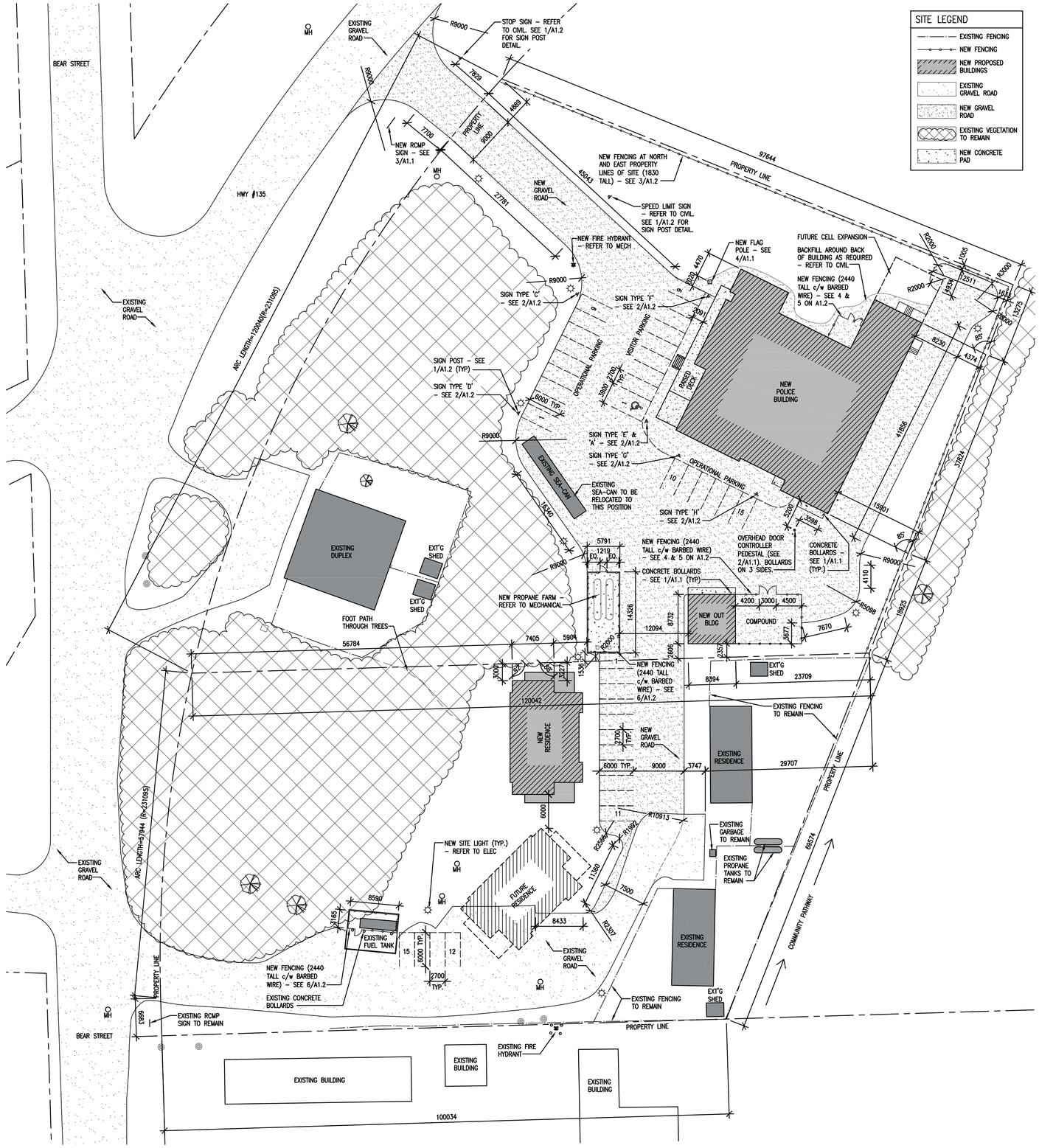
3 A1.1 SIGN DETAIL 1:20



4 A1.1 FLAGPOLE DETAIL 1:20



5 A1.1 BOLLARD DETAIL 1:20



6 A1.1 SITE PLAN 1:400

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

PWGSC – A1 – 841X594

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SASKATCHEWAN ASSOCIATION OF ARCHITECTS JUSTIN WATERSPOON REGISTERED SASKATOON Oct. 19, 2018

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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

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Designed by/Concept par
DE

Drawn by/Dessine par
JMM

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

SITE PLAN
SITE DETAILS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	A1.1	0

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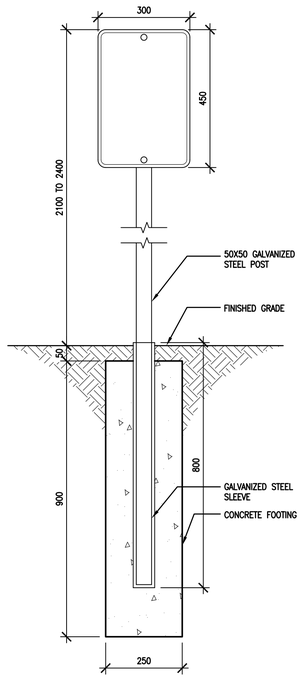


1 A1.1 SIGN POST DETAIL
1:10

SIGN TYPE 'A'
BARRIER FREE PARKING SIGN
COLOUR: BLUE ON WHITE
1.6mm REFLECTIVE ALUMINUM c/w PROTECTIVE OVERLAMINATE COATING

SIGN TYPE 'B'
BARRIER FREE PARKING SIGN
COLOUR: BLUE ON WHITE
1.6mm REFLECTIVE ALUMINUM c/w PROTECTIVE OVERLAMINATE COATING

SIGN TYPE 'C'
STAFF PARKING SIGN
COLOUR: RED ON WHITE
1.6mm REFLECTIVE ALUMINUM c/w PROTECTIVE OVERLAMINATE COATING

SIGN TYPE 'D'
STAFF PARKING SIGN
COLOUR: RED ON WHITE
1.6mm REFLECTIVE ALUMINUM c/w PROTECTIVE OVERLAMINATE COATING

SIGN TYPE 'E'
VISITOR PARKING SIGN
COLOUR: GREEN ON WHITE
1.6mm REFLECTIVE ALUMINUM c/w PROTECTIVE OVERLAMINATE COATING

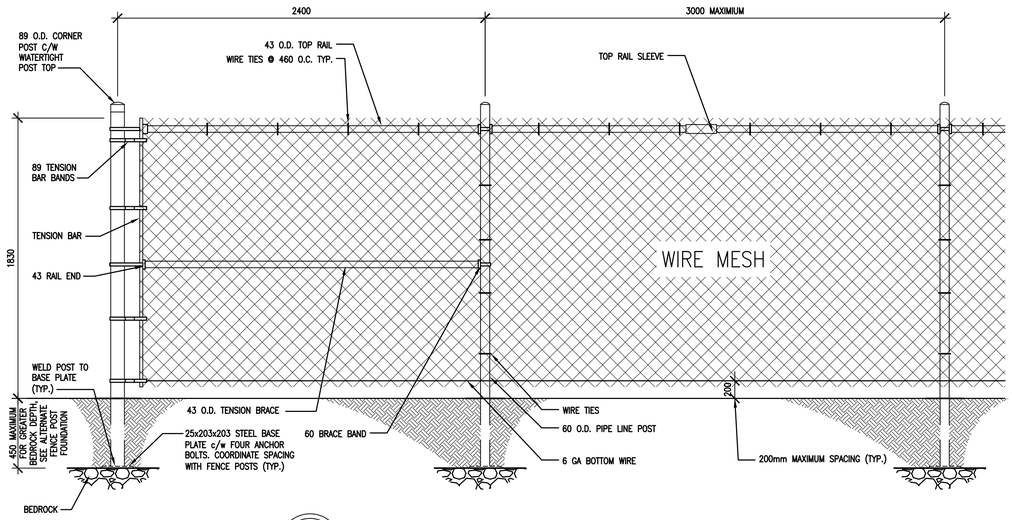
SIGN TYPE 'F'
VISITOR PARKING SIGN
COLOUR: GREEN ON WHITE
1.6mm REFLECTIVE ALUMINUM c/w PROTECTIVE OVERLAMINATE COATING

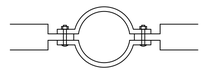
SIGN TYPE 'G'
POLICE VEHICLE PARKING SIGN
COLOUR: RED ON WHITE
1.6mm REFLECTIVE ALUMINUM c/w PROTECTIVE OVERLAMINATE COATING

SIGN TYPE 'H'
POLICE VEHICLE PARKING SIGN
COLOUR: RED ON WHITE
1.6mm REFLECTIVE ALUMINUM c/w PROTECTIVE OVERLAMINATE COATING

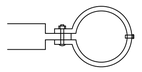
2 A1.1 SIGN DETAILS
1:10

NOTE: PROVIDE NUMBER OF SIGNS AS INDICATED
CONFIRM LOCATION WITH OWNER PRIOR TO INSTALLATION



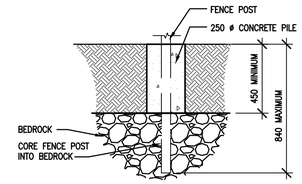


FENCE CONNECTION DETAIL



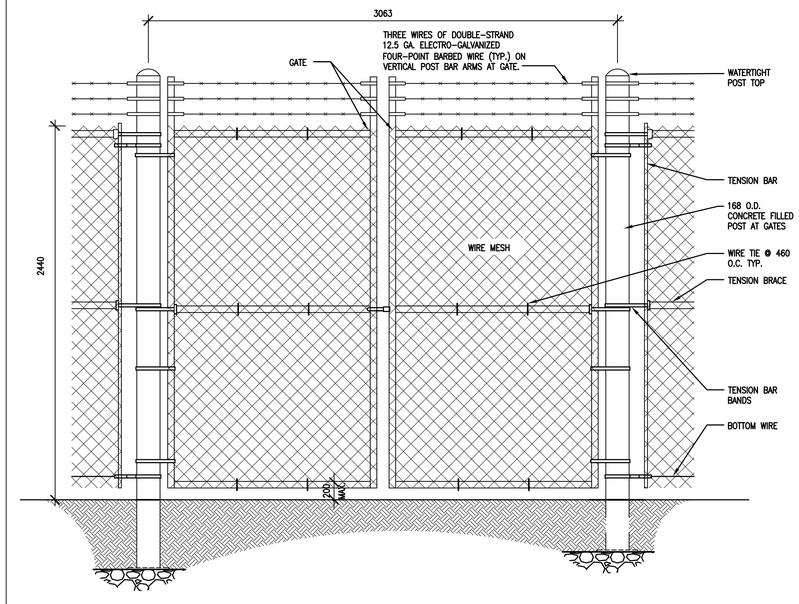
FENCE CONNECTION DETAIL

3 A1.1 TYPICAL FENCE DETAIL
1:20

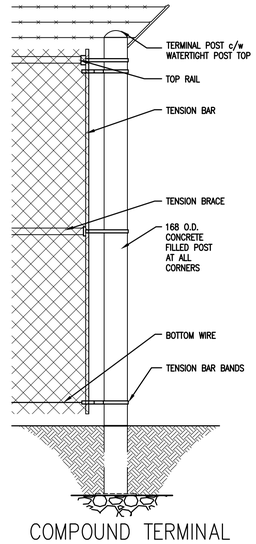


ALTERNATE FENCE POST FOUNDATION

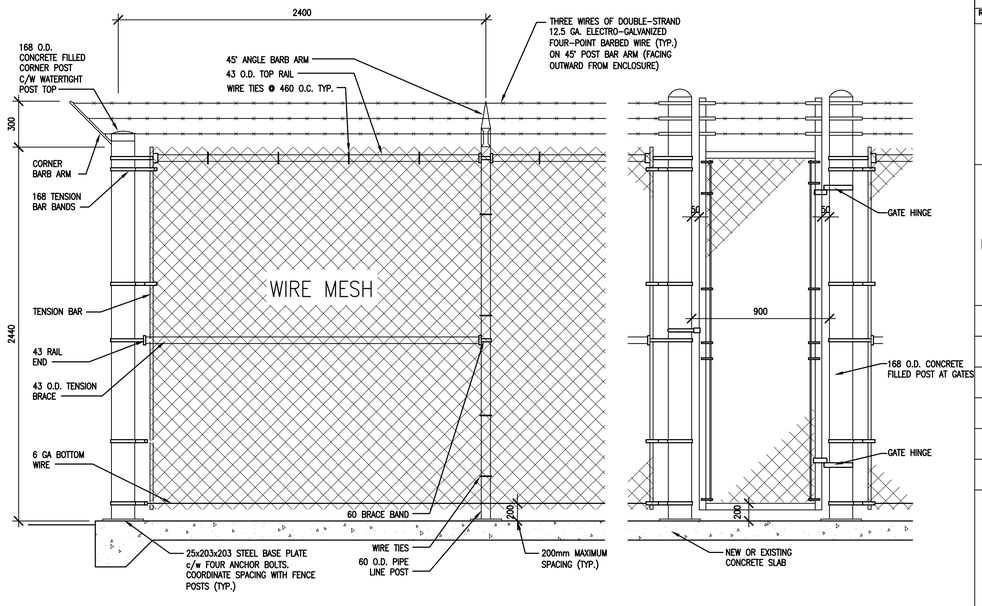
NOTE: ALTERNATE FOUNDATION USE TO BE DETERMINED BASED ON SITE CONDITIONS AT FENCE POST LOCATIONS



4 A1.1 COMPOUND GATE PLAN
1:20



5 A1.1 COMPOUND TERMINAL POST DETAIL
1:20



6 A1.1 FUEL TANK/PROPANE FARM FENCE DETAIL
1:20

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

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■ web/itc www.sepw.ca

SASKATCHEWAN ASSOCIATION OF ARCHITECTS
JUSTIN PATTERSON
REGISTERED ARCHITECT
SASKATOON
OCT. 19, 2018

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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

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JMM

Project Manager/Administrateur de Projets

Architectural and Engineering Ressources Manager/ Ressources Architectural et de Directeur d'ingénierie

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SITE DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	A1.2	0

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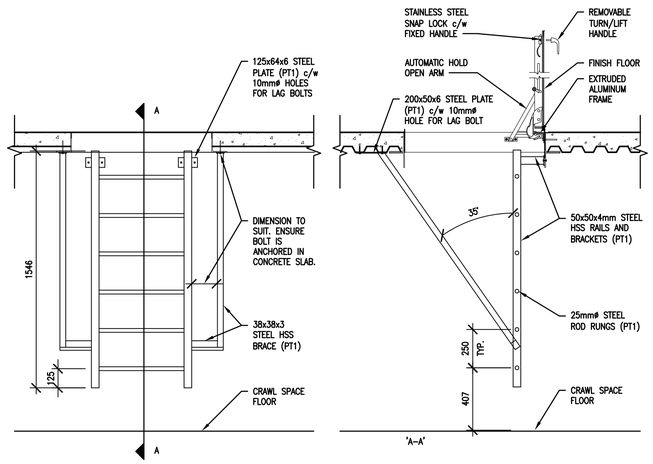
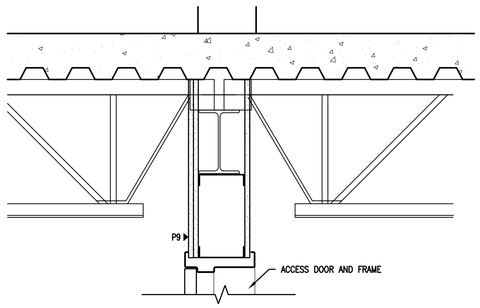
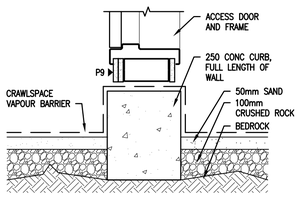


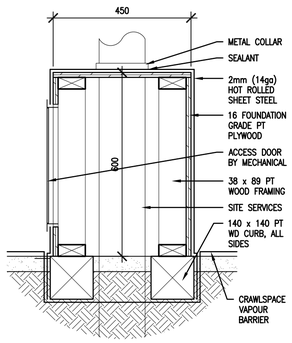
1 / A2.1 CRAWLSPACE ACCESS LADDER
1:200



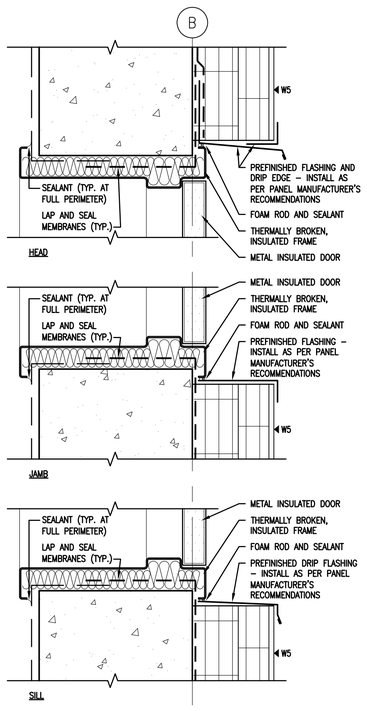
2 / A2.1 CRAWL SPACE DOOR HEAD AT INTERIOR WALL
1:10



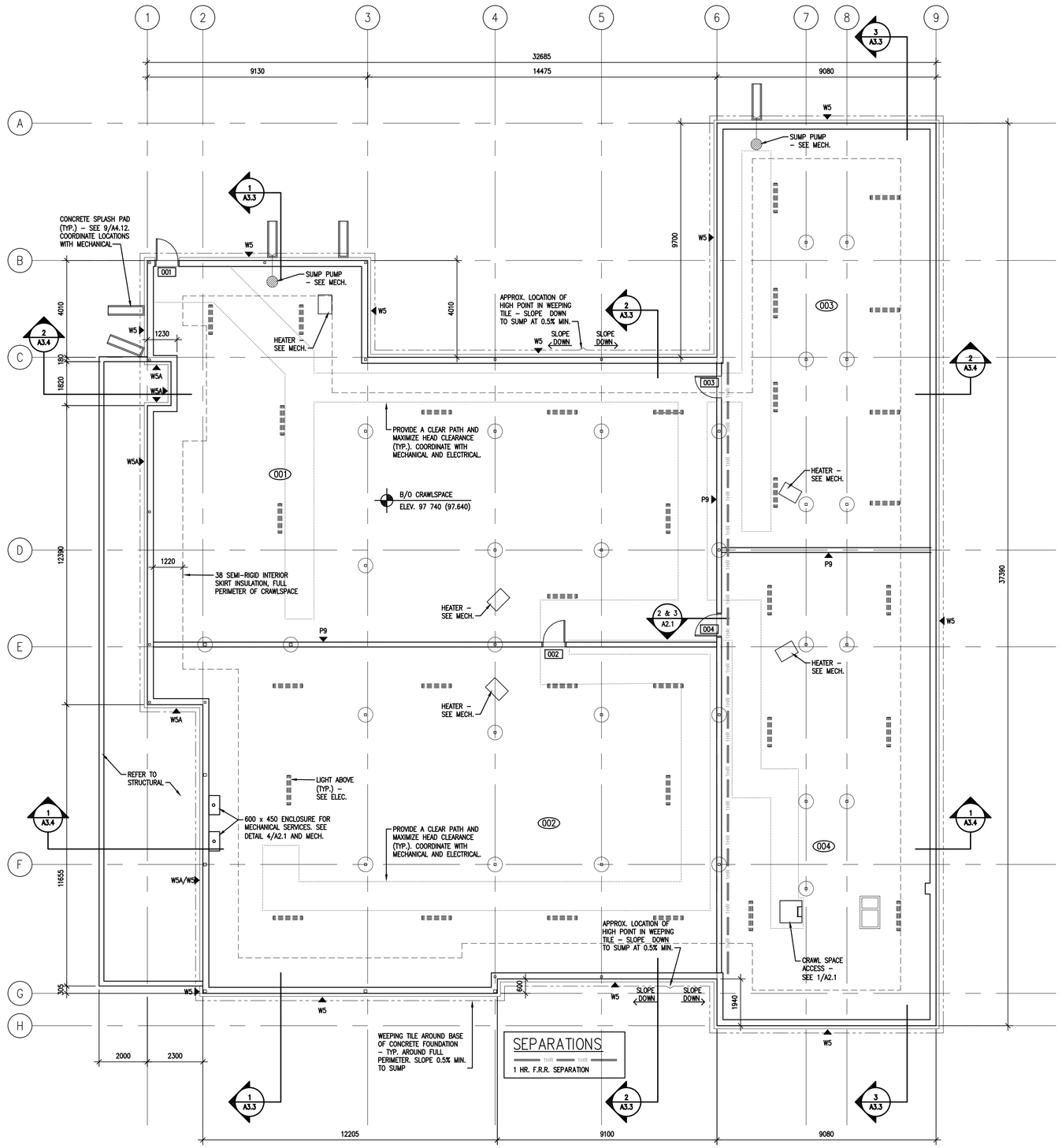
3 / A2.1 CRAWLSPACE DOOR SILL AT INTERIOR WALL
1:10



4 / A2.1 CRAWLSPACE MECH. ENCLOSURE
1:10



5 / A2.1 CRAWLSPACE EXT. DOOR
1:5



6 / A2.1 CRAWLSPACE PLAN
1:100

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SASKATCHEWAN ASSOCIATION OF ARCHITECTS
JUSTIN PATTERSON
REGISTERED ARCHITECT
SASKATOON
OCT. 17, 2018

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CRAWLSPACE PLAN
CRAWLSPACE DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	A2.1	0

PWGSC – A1 – 841X594

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

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SEPARATIONS:

STC — STC — STC — STC — STC — STC

ACOUSTIC SEPARATION (MIN. 52 STC RATING U.N.O.)
ROOMS 104, 114, 116, 138, 140.1, 140.2,
& 148 TO HAVE MIN. 52 STC RATING

0HR — 0HR — 0HR — 0HR — 0HR — 0HR

0 HR. F.R.R. SEPARATION

1HR — 1HR — 1HR — 1HR — 1HR — 1HR

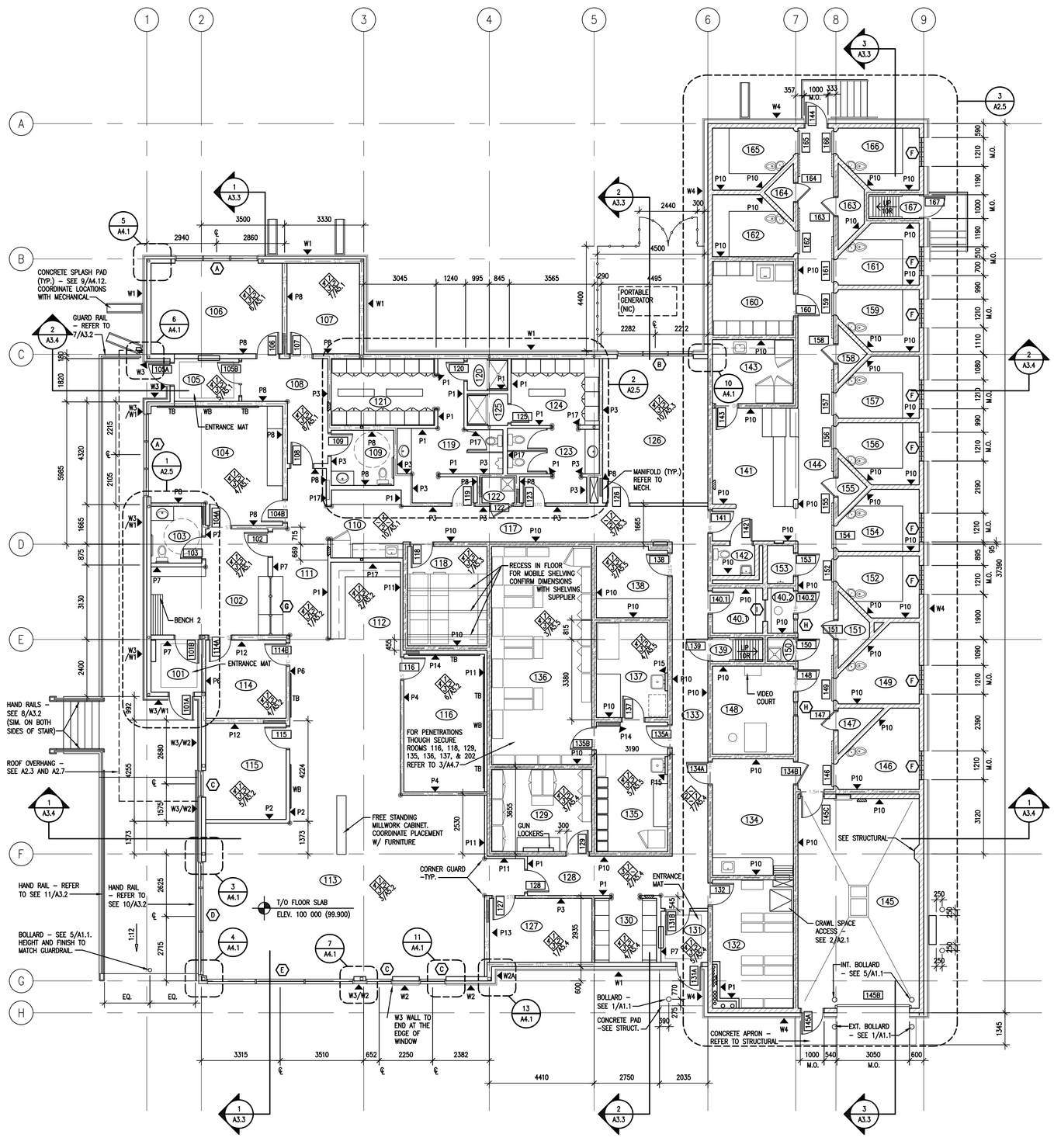
1 HR. F.R.R. SEPARATION

1.5Hr — 1.5Hr — 1.5Hr — 1.5Hr — 1.5Hr — 1.5Hr

1.5 HR. F.R.R. SEPARATION

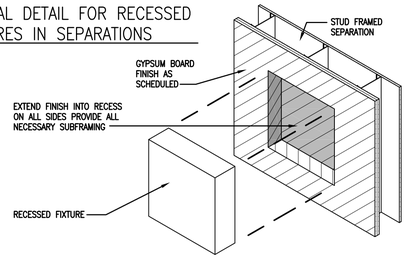
2HR — 2HR — 2HR — 2HR — 2HR — 2HR

2 HR. F.R.R. SEPARATION



MAIN FLOOR PLAN
1:100

TYPICAL DETAIL FOR RECESSED FIXTURES IN SEPARATIONS



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■ website: www.sepw.ca

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SASKATOON
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MAIN FLOOR PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	A2.2	0

PWGSC – A1 – 841X594

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

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LEGEND:

- EXTERIOR POT LIGHT
- 610 X 610 RECESSED FLOURESCENT FIXTURE
- INTERIOR POT LIGHT
- SUSPENDED FLOURESCENT FIXTURE
- SUSPENDED FLOURESCENT FIXTURE
- RECESSED FLOURESCENT FIXTURE
- SURFACE FLOURESCENT FIXTURE
- CELL LIGHT
- SURFACE FLOURESCENT FIXTURE
- F.F. FORCE FLOW
- G.W.B. BULKHEAD
- 610 X 2440 DECORATIVE ACOUSTIC CEILING PANEL (APT2)
- RETURN AIR GRILL
- SUPPLY DIFFUSER
- EXHAUST
- SPRINKLER
- SMOKE DETECTOR

CEILING TYPES:

- EXPOSED METAL DECK
- GYPSUM BOARD CEILING
- EXPOSED CONCRETE
- ALUMINUM SOFFIT (PROFILE 1)
- ACOUSTIC CEILING TILE
- EXPOSED T & G WOOD DECKING
- VINYL ACOUSTIC PANEL (APT1)
- OSB SHEATHING

SEPARATIONS:

STC — STC — STC — STC — STC

ACOUSTIC SEPARATION (MIN. 52 STC RATING U.N.O.)
ROOMS 104, 114, 116, 138, 140.1, 140.2,
& 148 TO HAVE MIN. 52 STC RATING

OHR — OHR — OHR — OHR — OHR

0 HR. F.R.R. SEPARATION

1HR — 1HR — 1HR — 1HR — 1HR

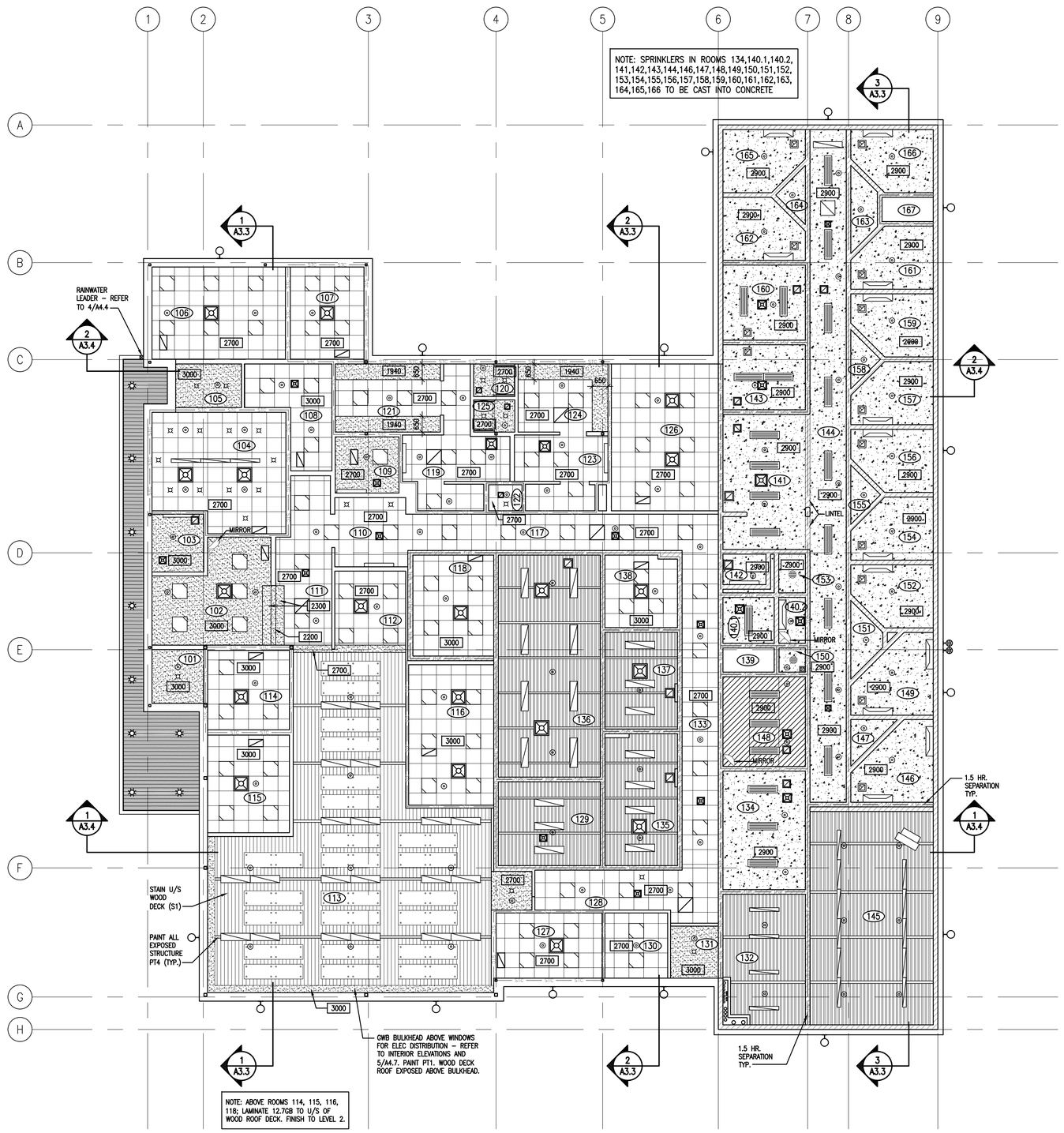
1 HR. F.R.R. SEPARATION

1.5H — 1.5H — 1.5H — 1.5H — 1.5H

1.5 HR. F.R.R. SEPARATION

2HR — 2HR — 2HR — 2HR — 2HR

2 HR. F.R.R. SEPARATION



1 A2.3 REFLECTED CEILING PLAN
1:100

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■ web@tc www.sepw.ca

SASKATCHEWAN ASSOCIATION OF ARCHITECTS
JUSTIN PEARSON
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SASKATOON
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Client/client

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
DE

Drawn by/Dessine par
JMM

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

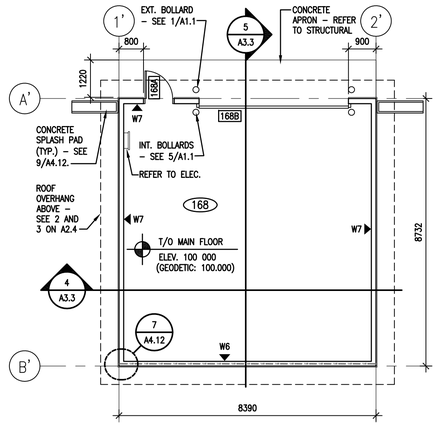
REFLECTED CEILING PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	A2.3	0

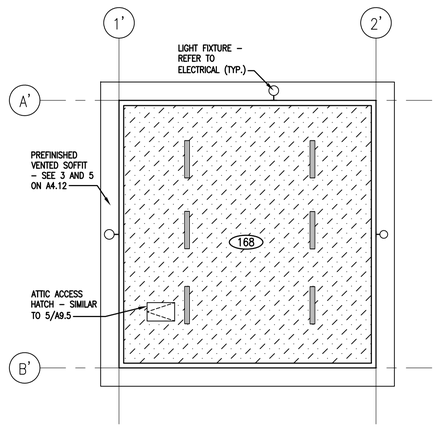
PWGSC – A1 – 841X594

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

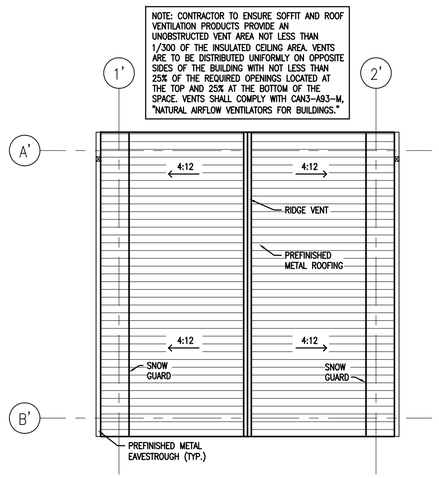
A000



1 A2.4 OUT BUILDING FLOOR PLAN
1:100



2 A2.4 OUT BUILDING REFLECTED CEILING PLAN
1:100



3 A2.4 OUT BUILDING ROOF PLAN
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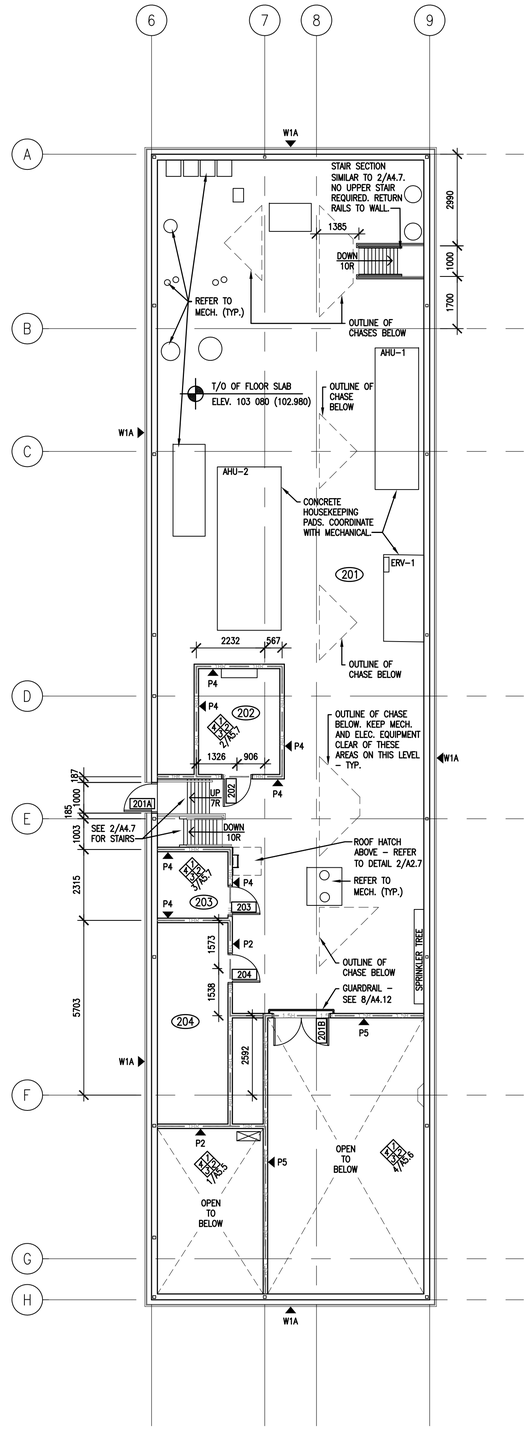

4 A2.4 SERVICE SPACE PLAN
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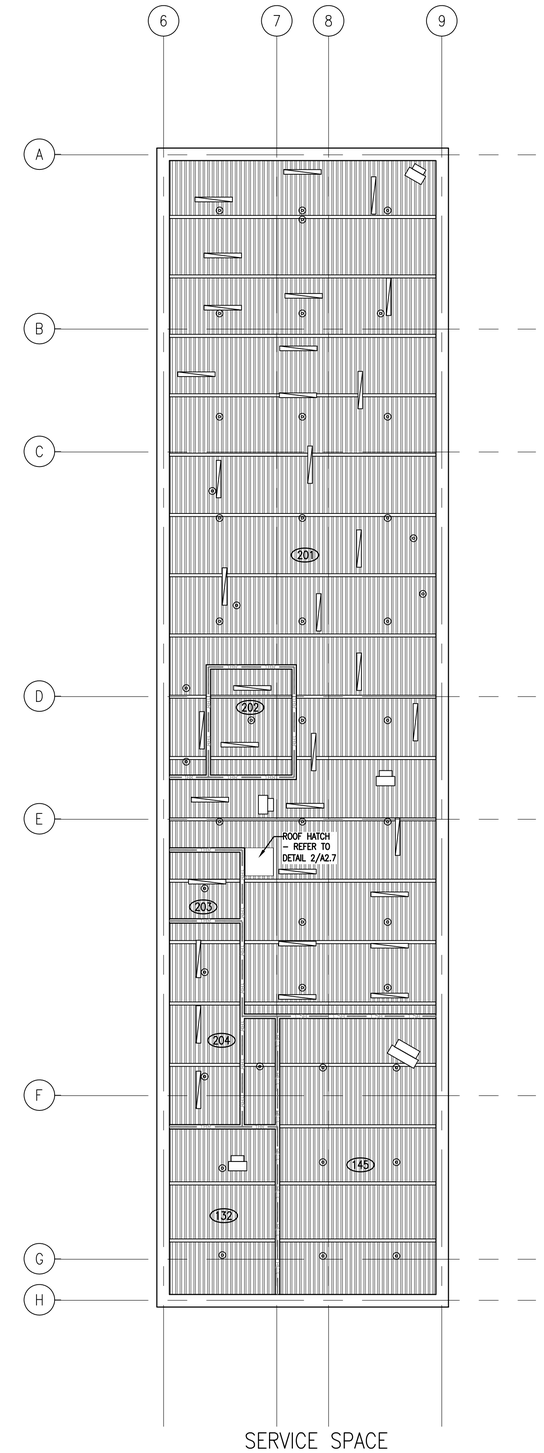

5 A2.4 SERVICE SPACE REFLECTED CEILING PLAN
1:100

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

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SERVICE SPACE PLAN
SERVICE SPACE CEILING PLAN
OUTBUILDING PLANS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	A2.4	0

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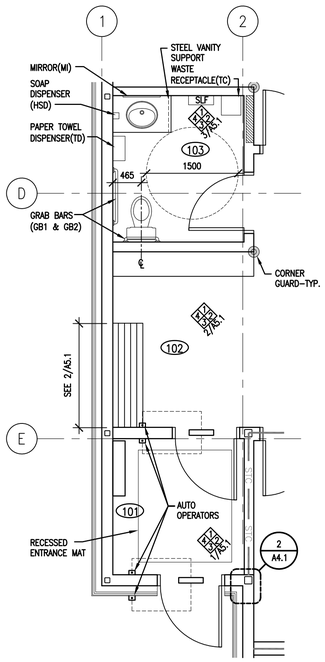
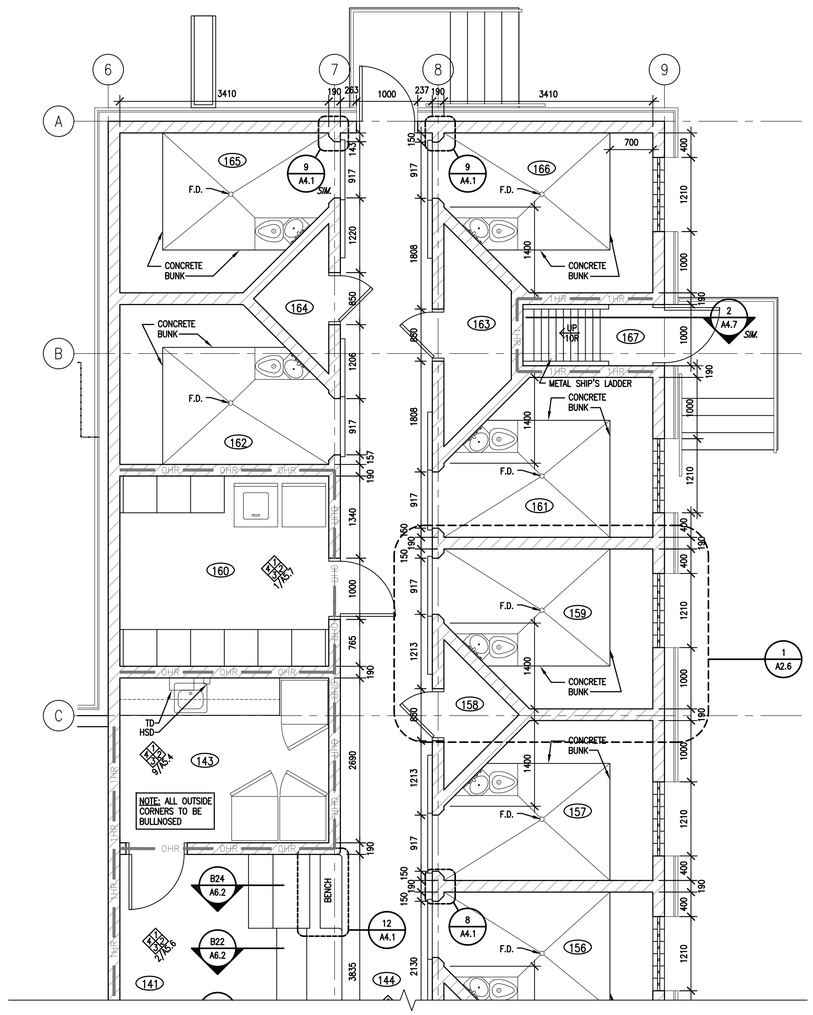
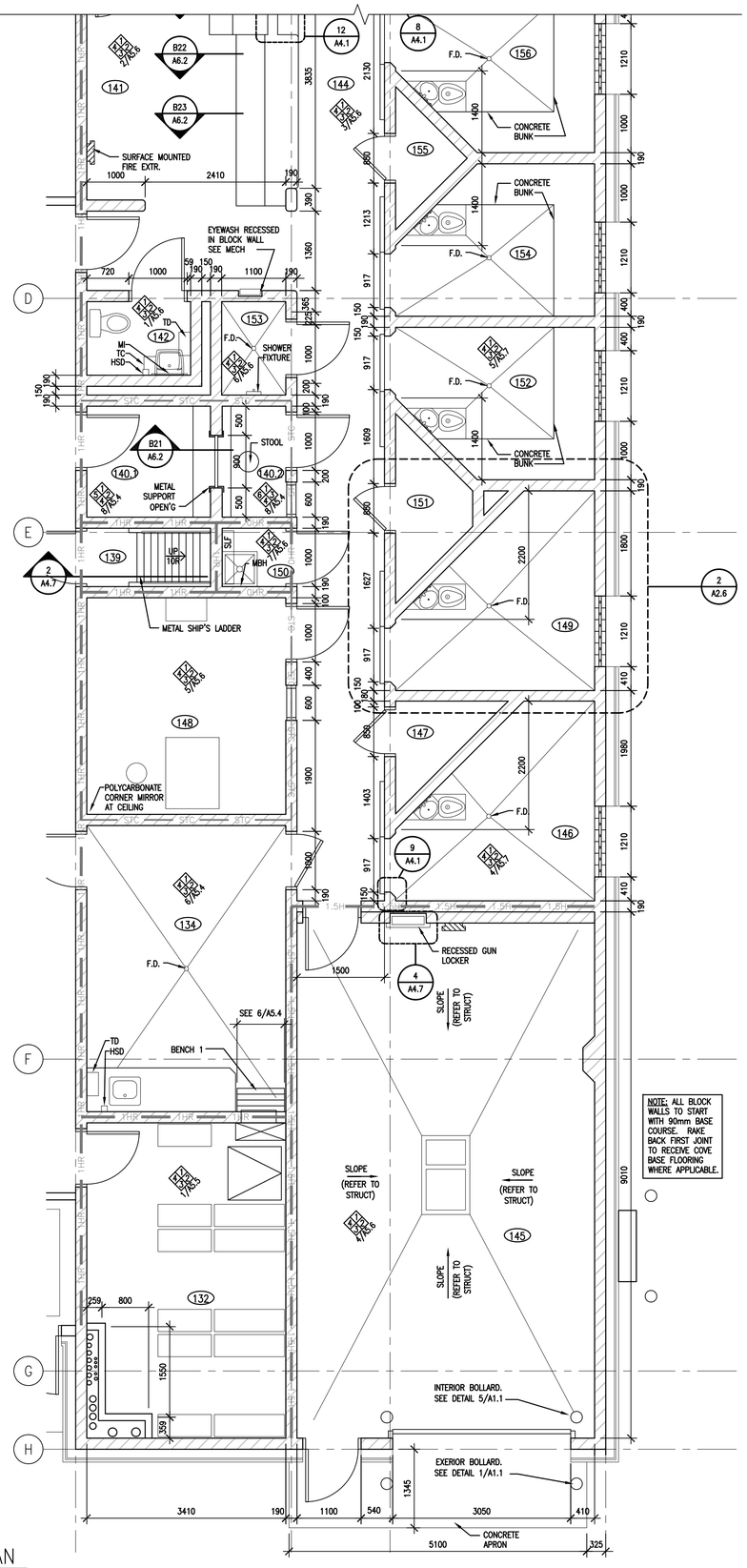
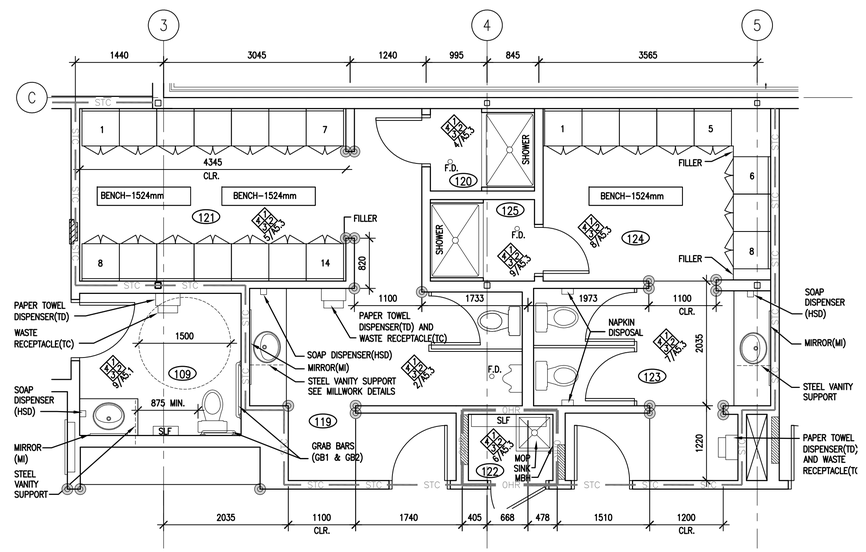


LARGE SCALE ENTRANCE PLAN

1 A2.2 1:50







LARGE SCALE WASHROOM / LOCKER / SHOWER ROOM PLAN

2 A2.2 1:50

LARGE SCALE CELL AREA PLAN

3 A2.2 1:50

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

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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

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Architectural and Engineering Resources Manager/
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ENLARGED FLOOR PLANS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	A2.5	0

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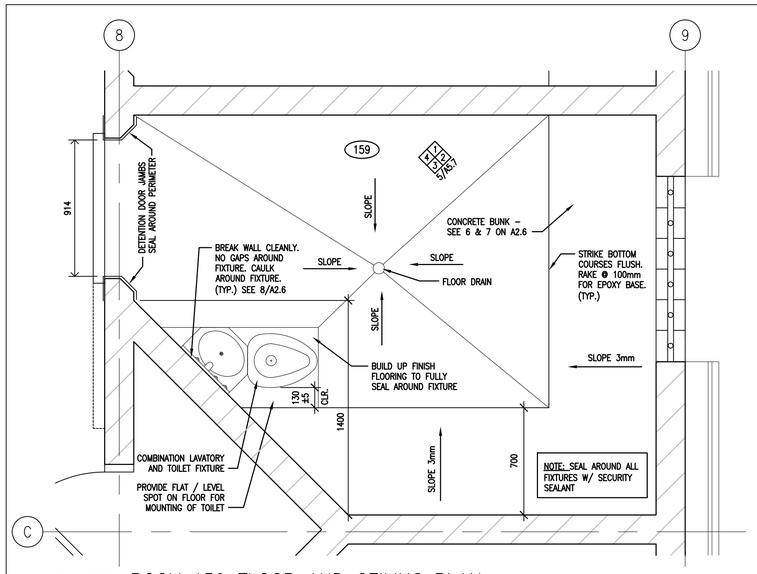
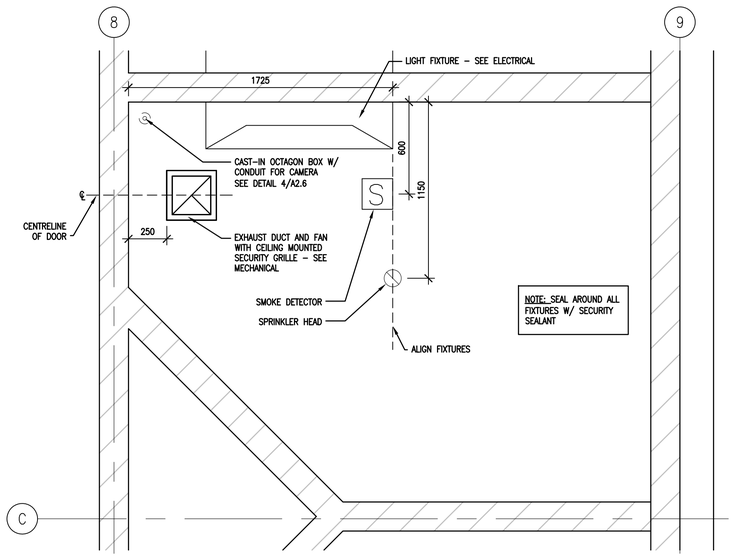
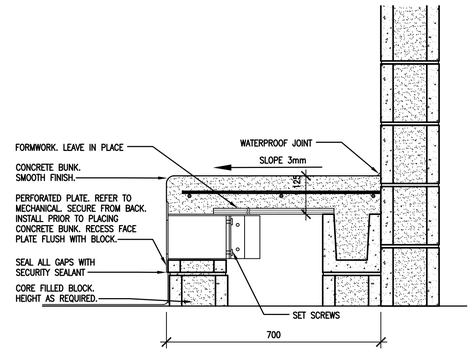


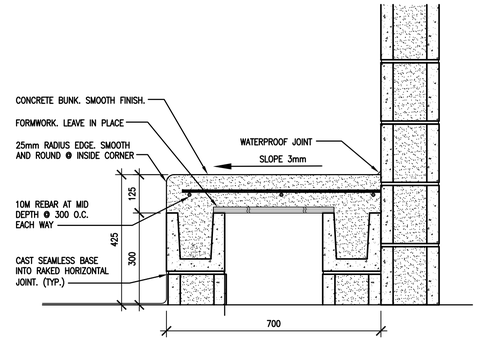


1 / A2.5 ROOM 159 FLOOR AND CEILING PLAN
1:20
ROOMS 152, 154, 156, 157, 161, 162, 165, AND 166 SIMILAR

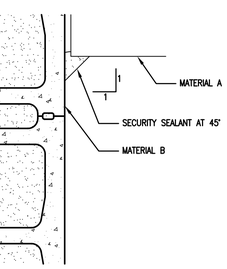


6 / A2.6 CONCRETE BUNK WITH RETURN AIR DETAIL
1:10

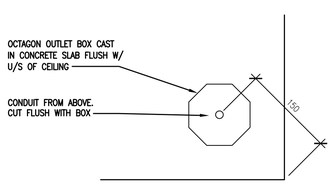
2 / A2.5 ROOM 149 FLOOR AND CEILING PLAN
1:20
ROOM 146 SIMILAR



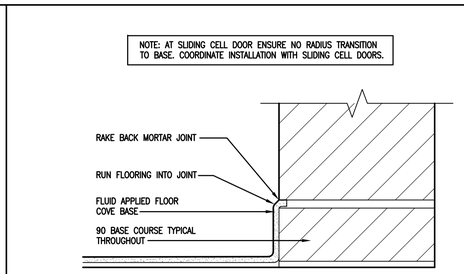
7 / A2.6 CONCRETE BUNK DETAIL
1:10



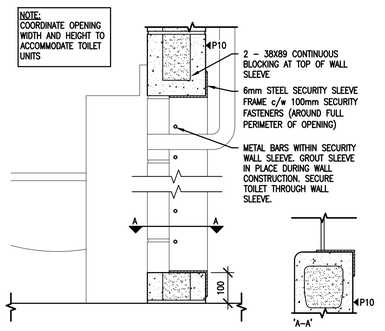
3 / A2.6 TYPICAL SECURITY SEALANT
1:5



4 / A2.6 CEILING DEVICE DETAIL
1:5



5 / A2.6 TYPICAL COVE BASE DETAIL
1:5



8 / A2.6 DETAIL BEHIND COMBINATION TOILET
1:10

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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

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Designed by/Concept par
DE

Drawn by/Dessine par
JMM

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Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

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CELL PLANS AND DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	A2.6	0

PWGSC – A1 – 841X594

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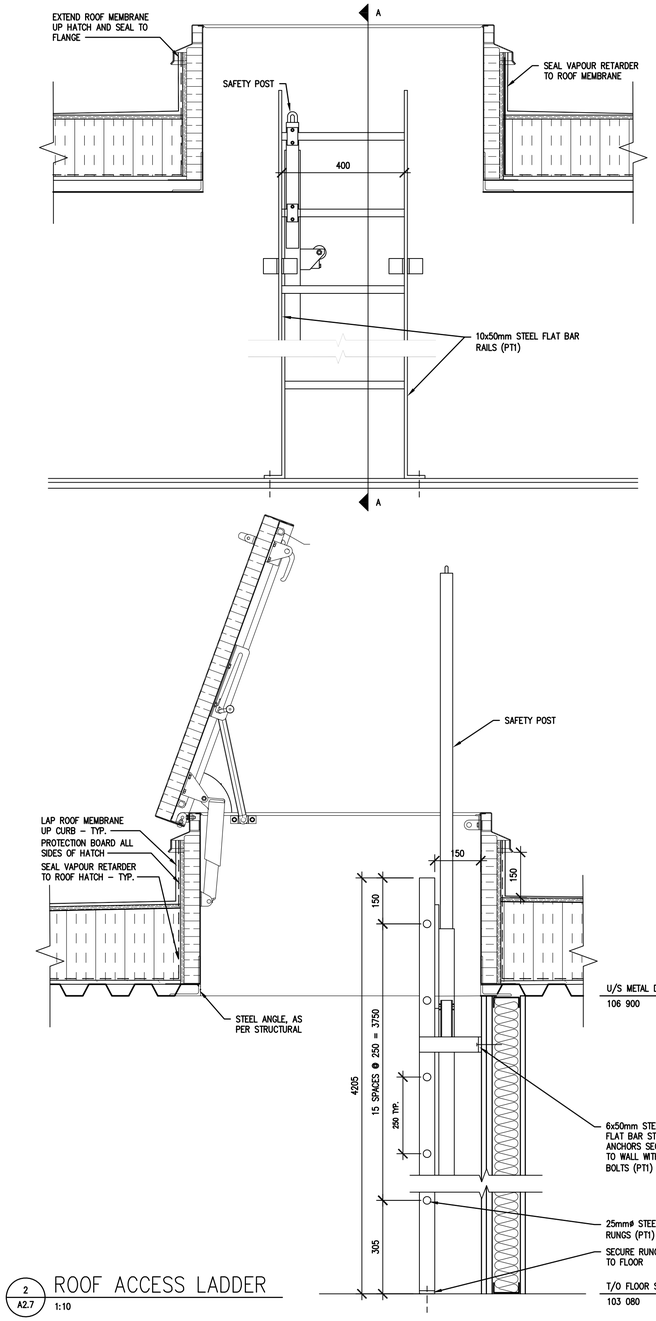
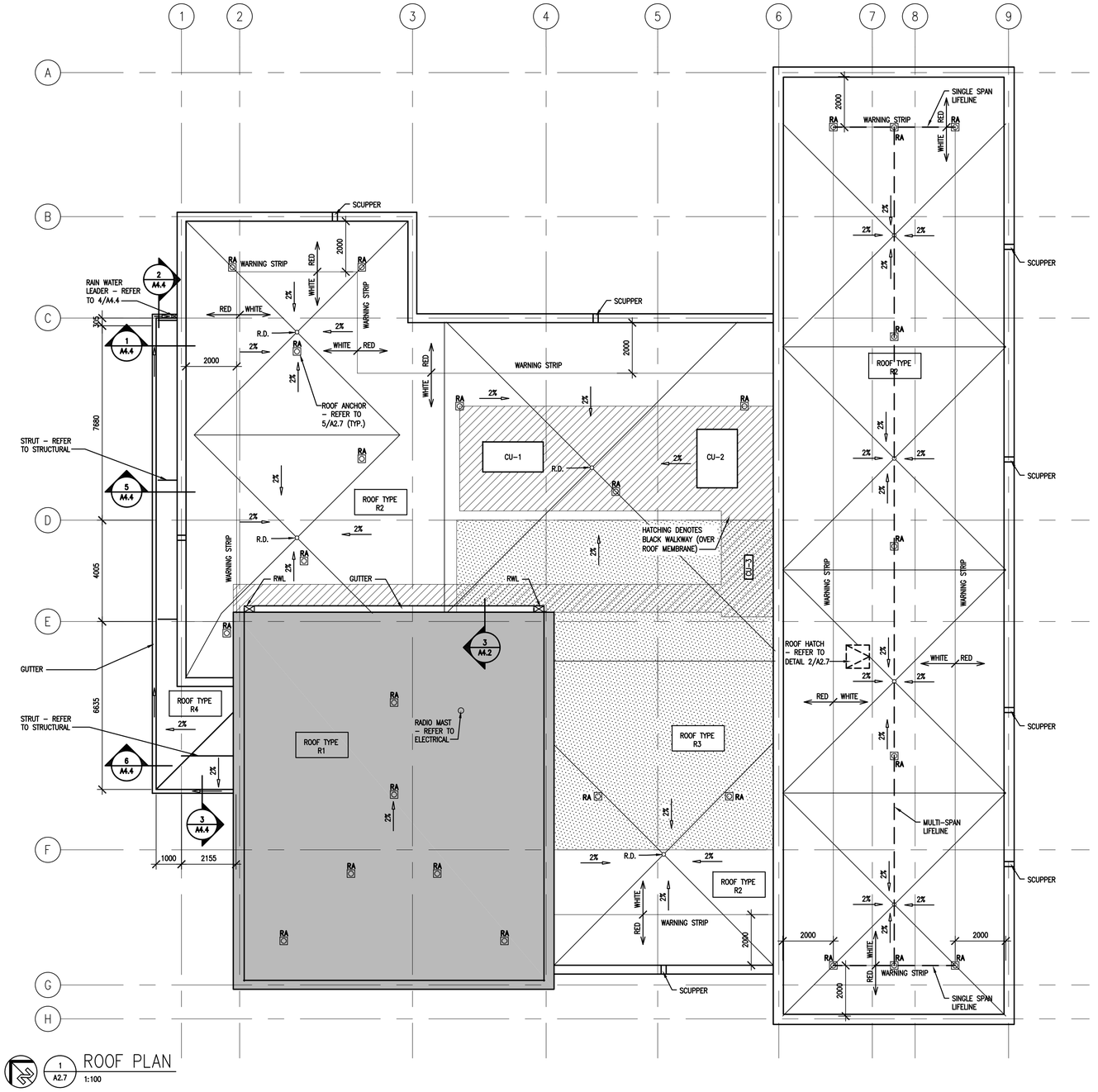
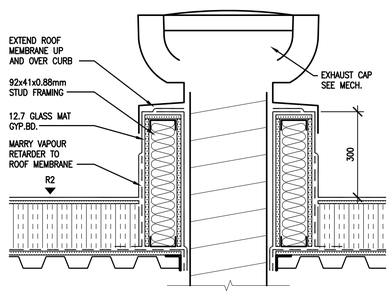


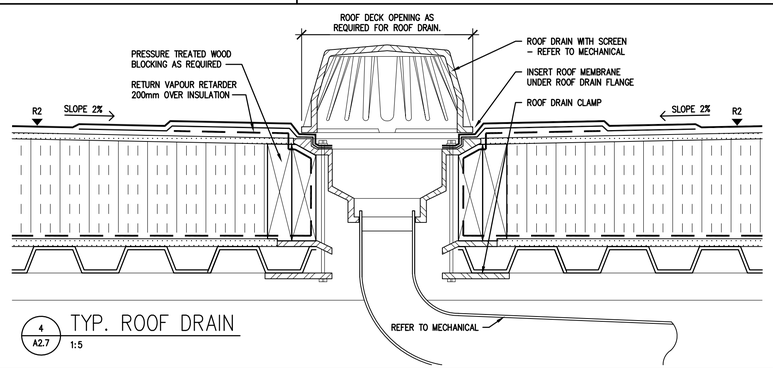
2 A2.7 ROOF ACCESS LADDER 1:10



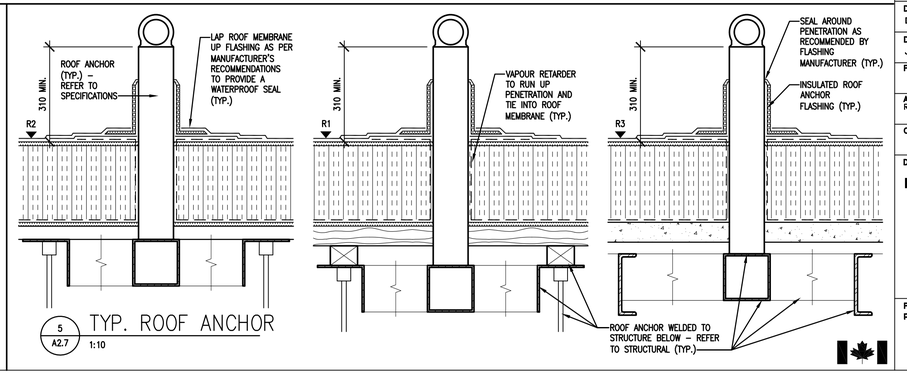
1 A2.7 ROOF PLAN 1:100



3 A2.7 TYP. ROOF CURB 1:10



4 A2.7 TYP. ROOF DRAIN 1:5



5 A2.7 TYP. ROOF ANCHOR 1:10

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ROOF PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	A2.7	0

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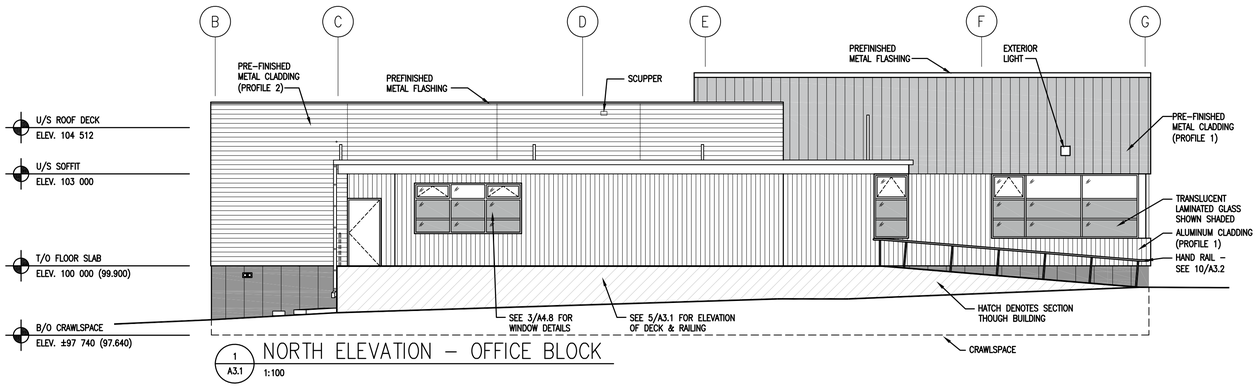
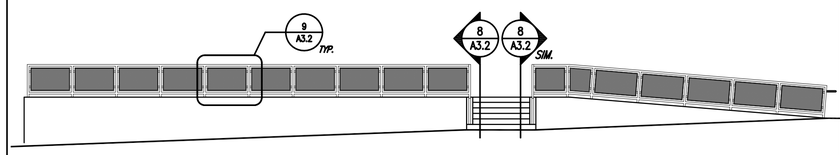


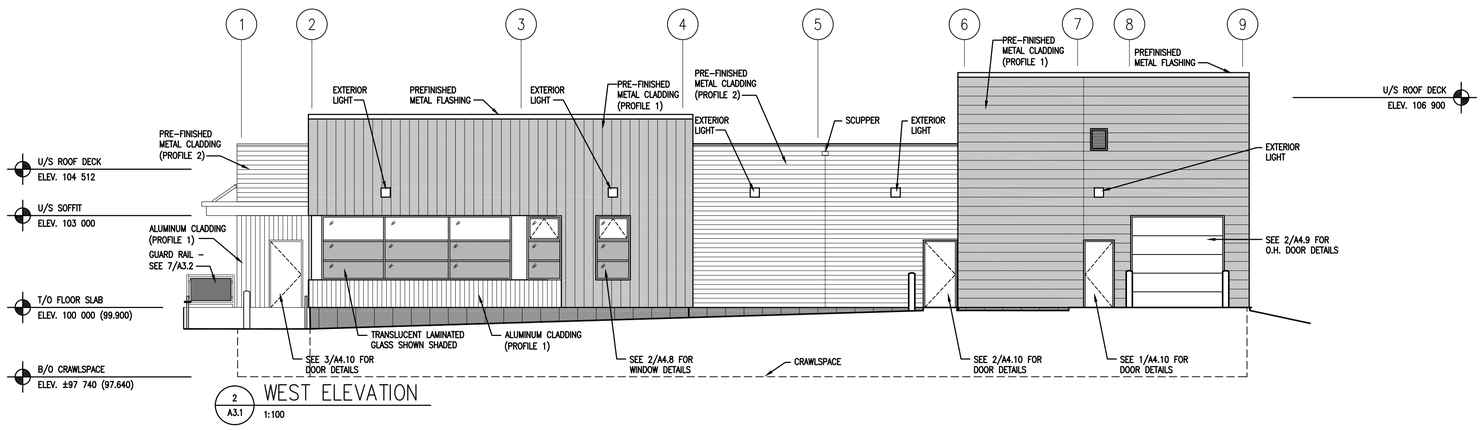
1 A3.1 NORTH ELEVATION – OFFICE BLOCK

1:100



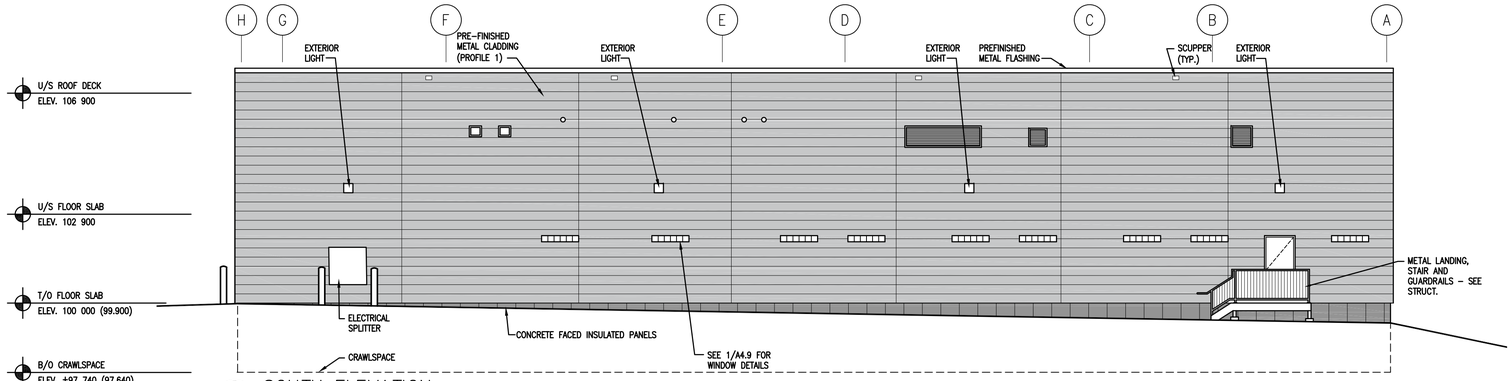
5 A3.1 NORTH ELEVATION – GUARDRAIL

1:100



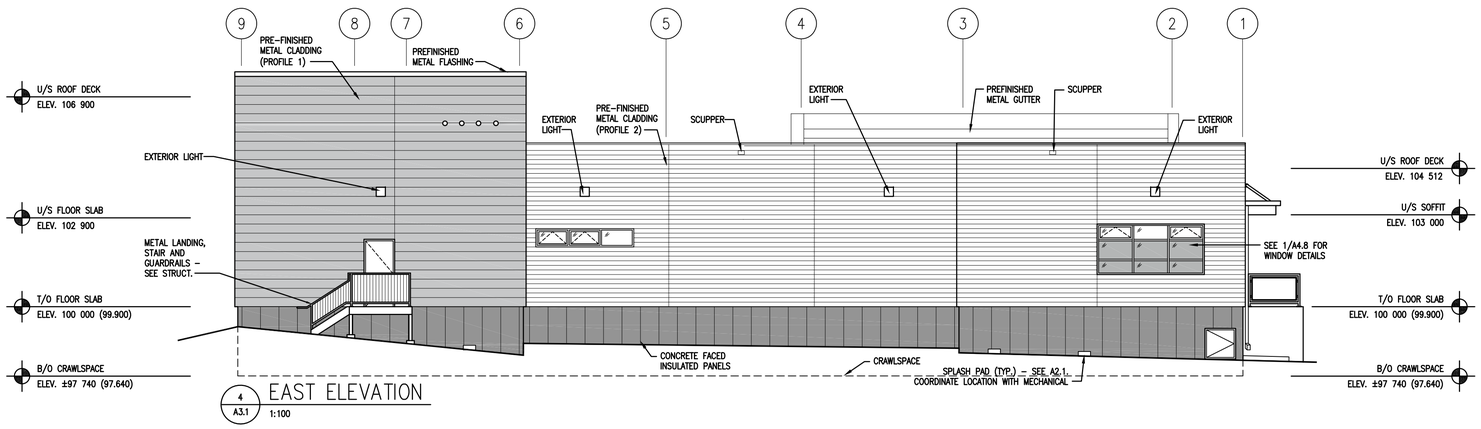
2 A3.1 WEST ELEVATION

1:100



3 A3.1 SOUTH ELEVATION

1:100



4 A3.1 EAST ELEVATION

1:100

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BUILDING ELEVATIONS

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R-10-2017	A3.1	0

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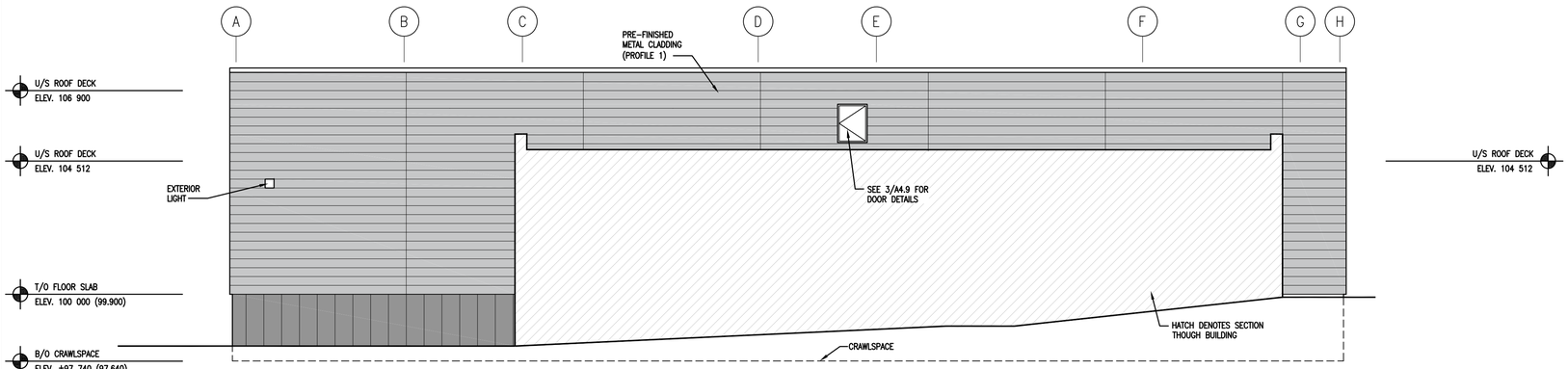
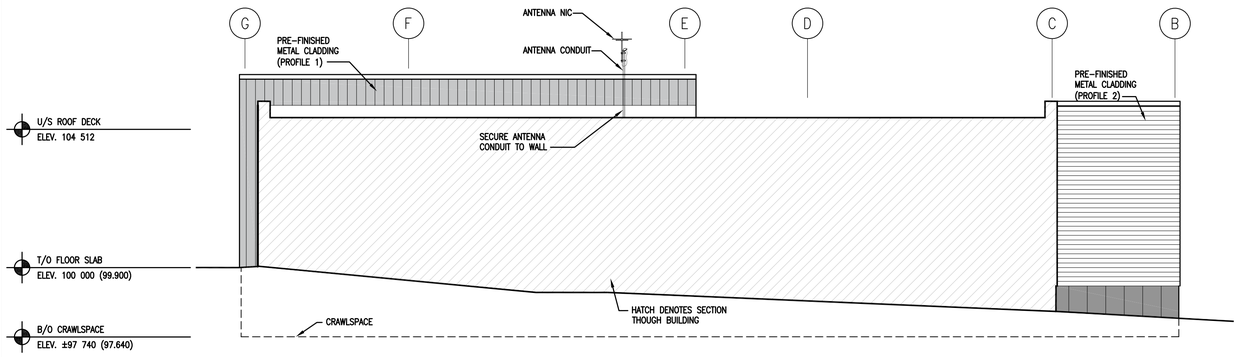
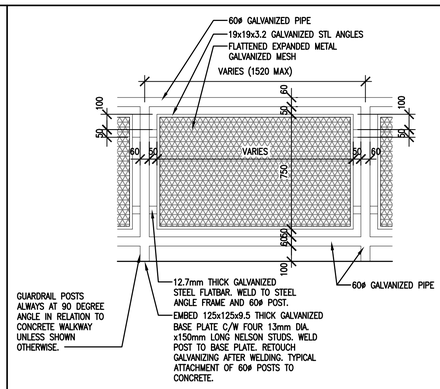


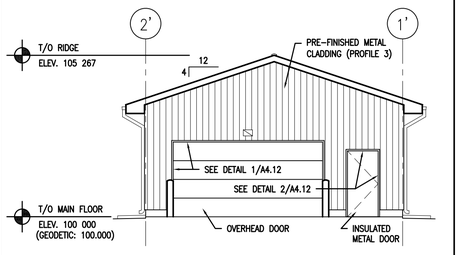
1 A3.2 NORTH ELEVATION CELL BLOCK
1:100



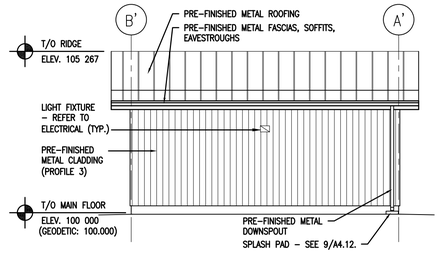
2 A3.2 SOUTH ELEVATION OFFICE BLOCK
1:100



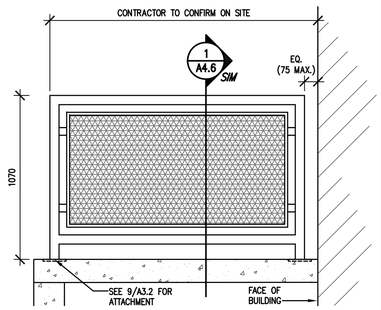
9 A3.2 GUARDRAIL DETAIL
1:20



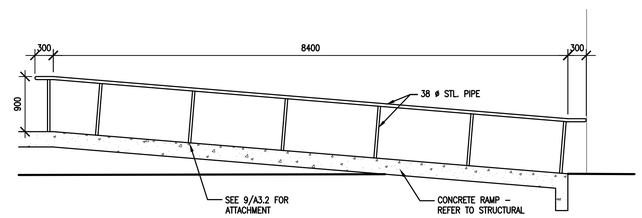
3 A3.2 NORTH ELEVATION
1:100



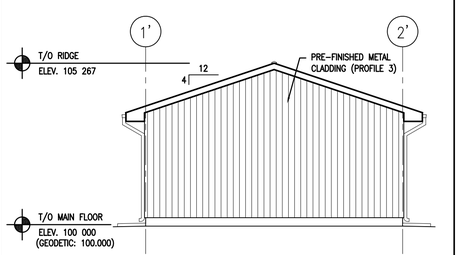
5 A3.2 EAST ELEVATION
1:100



7 A3.1 FLOOR MOUNTED GUARD RAIL
1:20



10 A3.1 FLOOR MOUNTED HAND RAIL AT RAMP
1:50



4 A3.2 SOUTH ELEVATION
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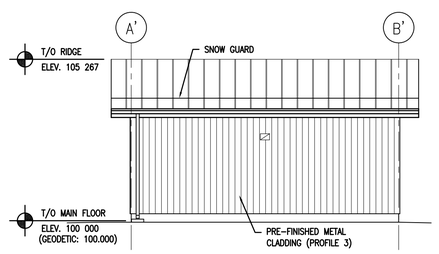

6 A3.2 WEST ELEVATION
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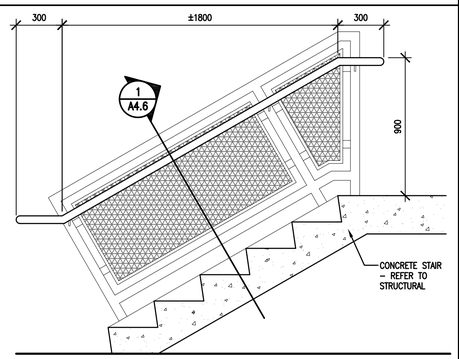
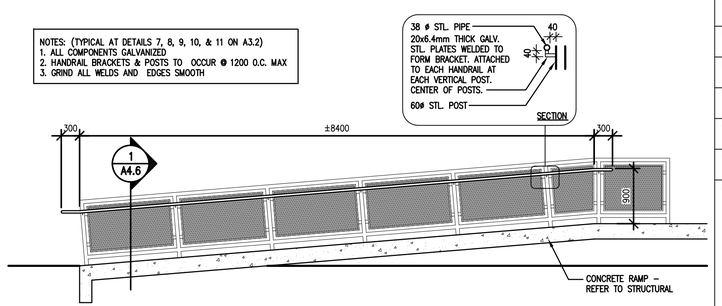


8 A3.2 GUARDRAIL MOUNTED HAND RAILS
1:20



11 A3.2 GUARDRAIL MOUNTED HAND RAIL AT RAMP
1:50

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

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JMM

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Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

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BUILDING ELEVATIONS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	A3.2	0

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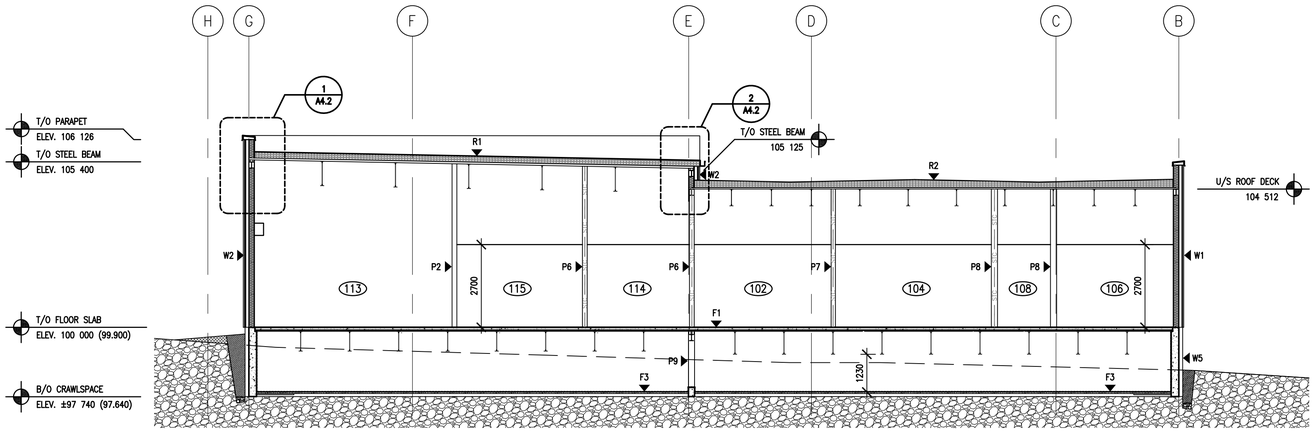

1 A2.2 EAST–WEST BUILDING SECTION
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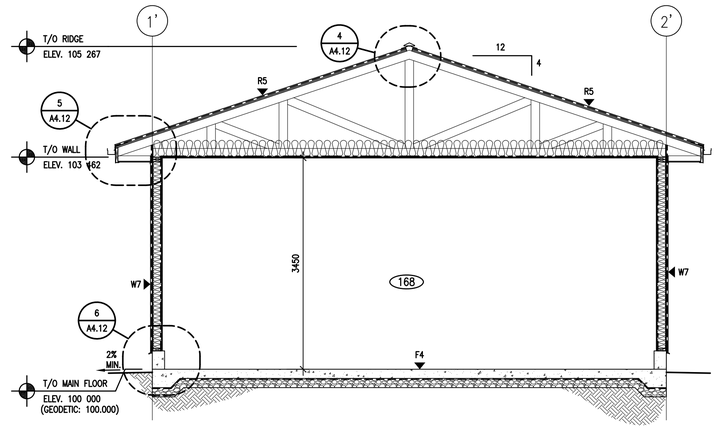

4 A2.4 BUILDING SECTION
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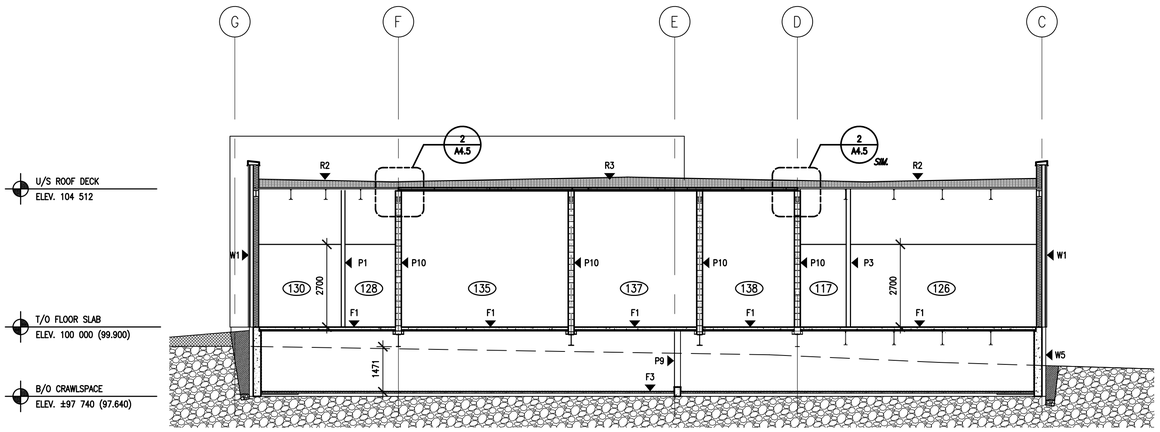

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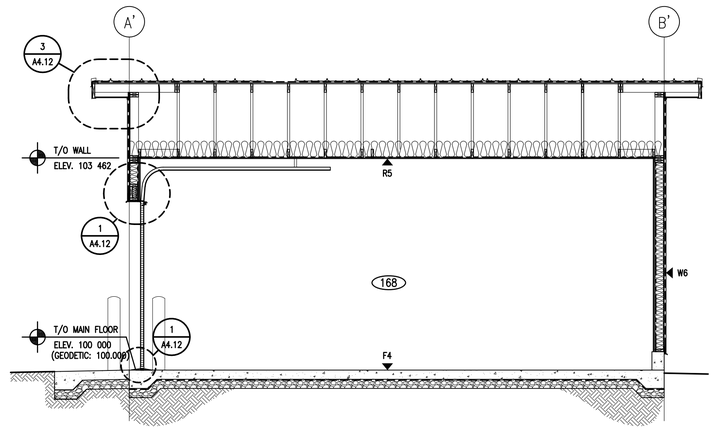

5 A2.4 BUILDING SECTION
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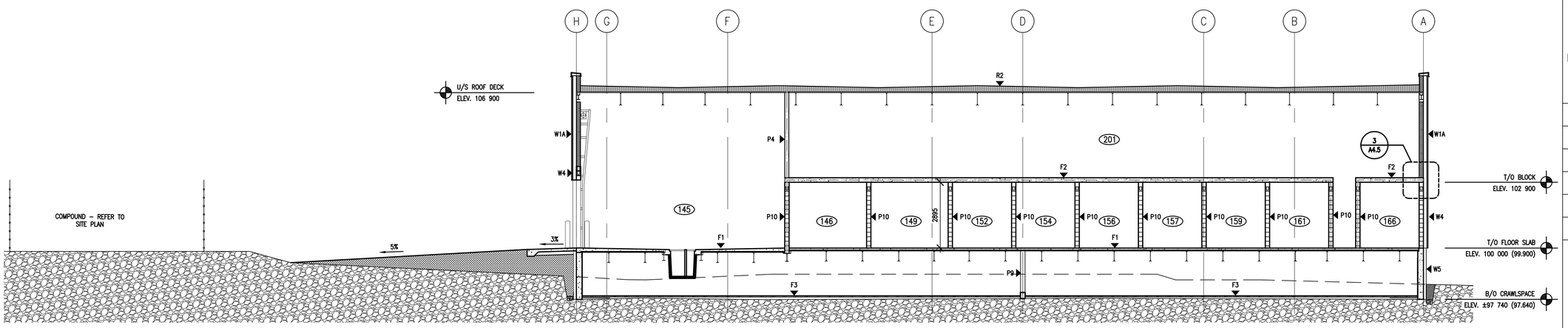

3 A2.2 EAST–WEST BUILDING SECTION
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PWGSC – A1 – 841X594

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

SEPW Architecture Inc.
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REGISTERED ARCHITECT
SASKATOON
OCT. 19, 2018

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Revision/ Revision	Description/Description	Date/Date
5		
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Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
DE

Drawn by/Dessine par
JMM

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie

Client/client

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Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	A3.3	0

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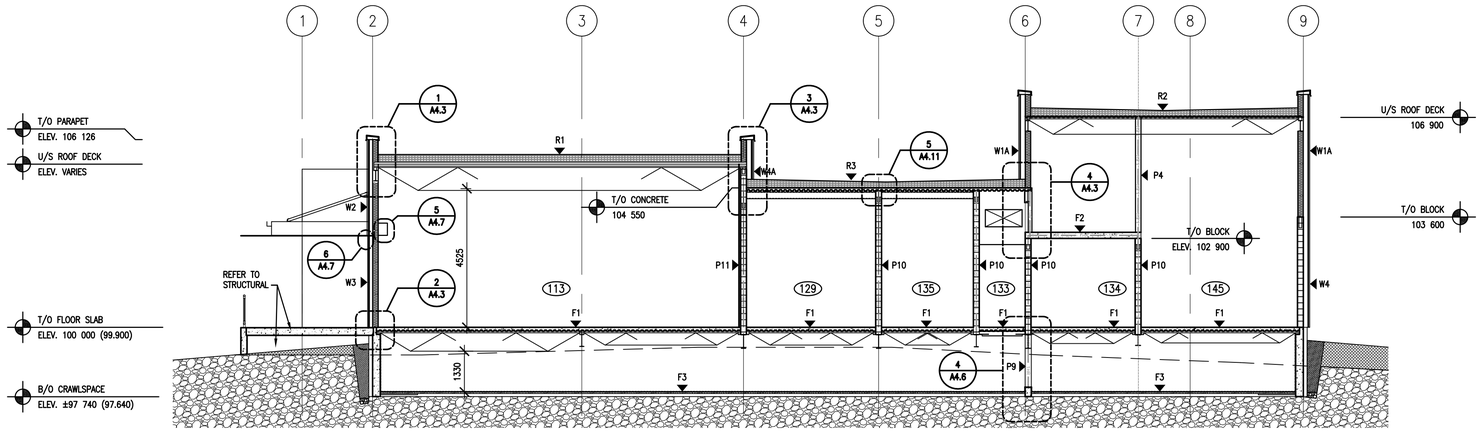

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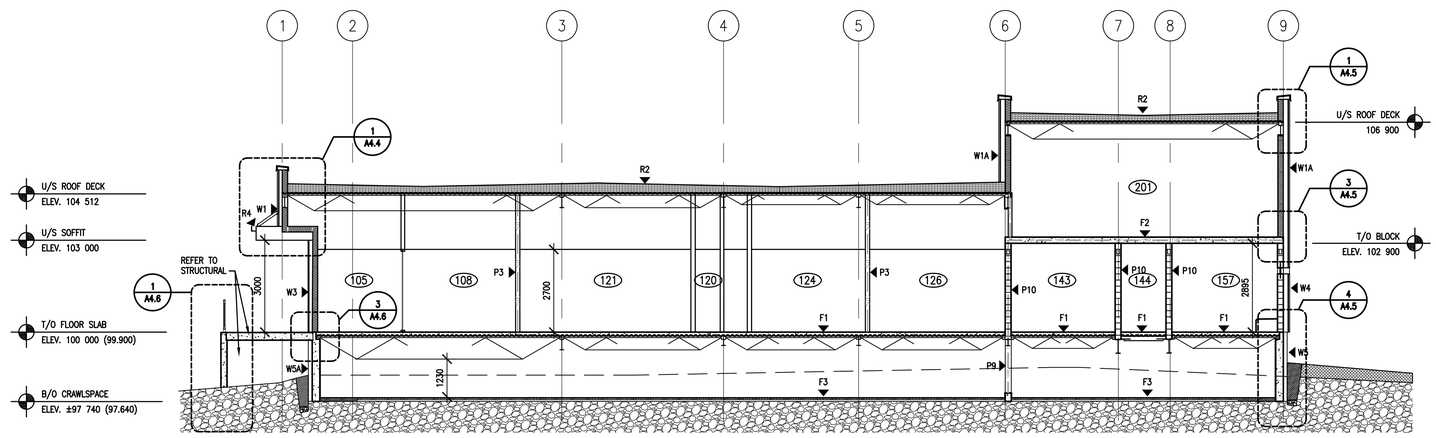

2 A2.2 NORTH–SOUTH BUILDING SECTION
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SEPW Architecture Inc.
■ 109 - 3725 Paiyaya Street, Regina, SK, S4S 6W8 ph: (306) 569-2255
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JUSTIN MCPHERSON
REGISTERED ARCHITECT
SASKATOON
OCT. 19, 2018

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Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
DE

Drawn by/Dessine par
JMM

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie

Client/client

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R-10-2017	A3.4	0

PWGSC – A1 – 841X594

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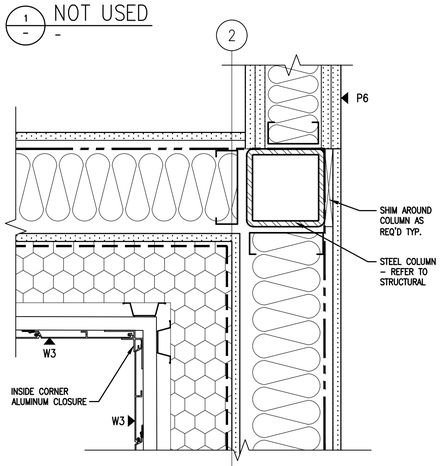

2 / A2.5 INTERIOR CORNER DETAIL
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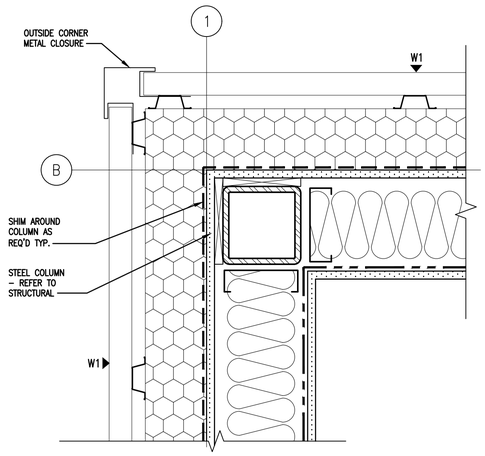

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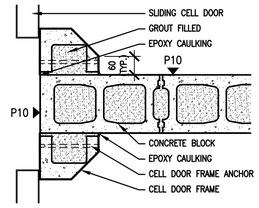
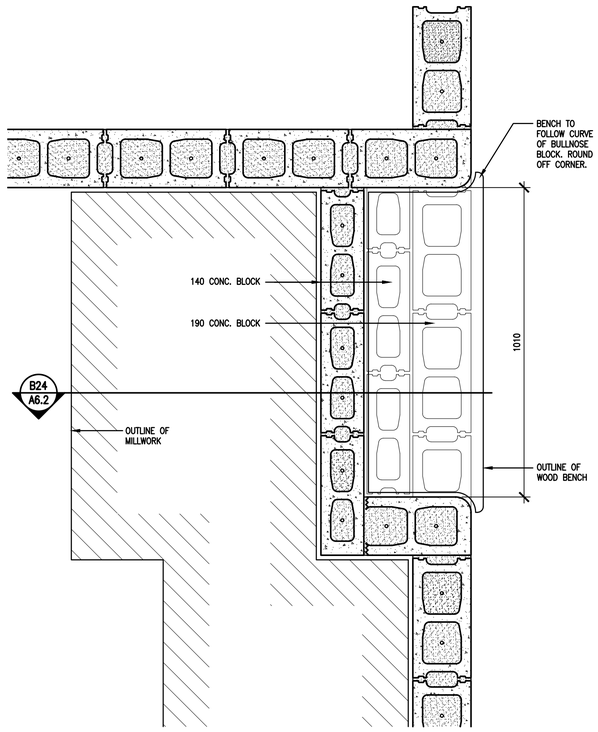
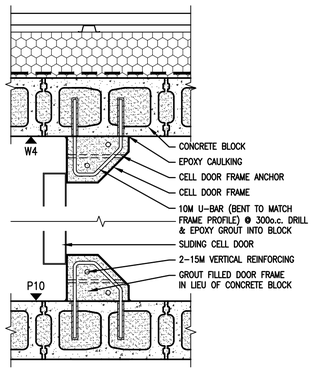


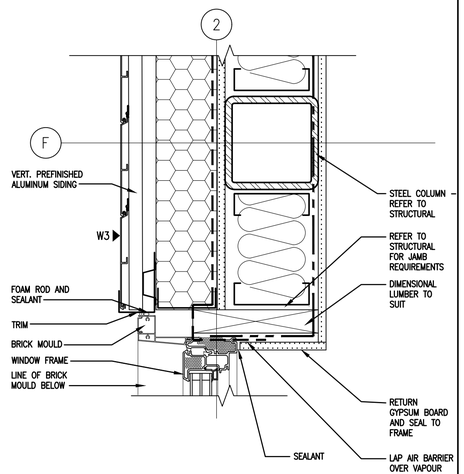
8 / A2.5 TYPICAL CELL DOOR JAMBS
1:10



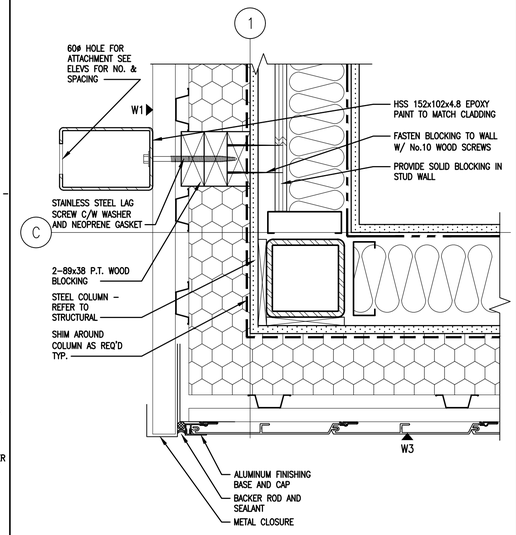
12 / A2.5 CMU BENCH DETAIL
1:10



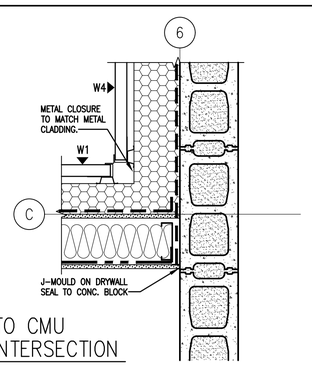
9 / A2.5 CELL DOOR JAMBS AT ENDS OF 144
1:10



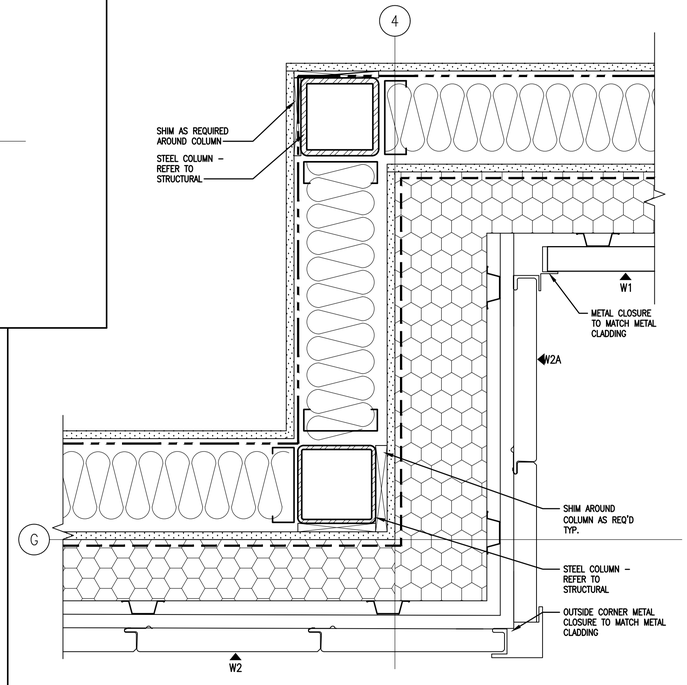
3 / A2.2 EDGE OF WINDOW
1:5



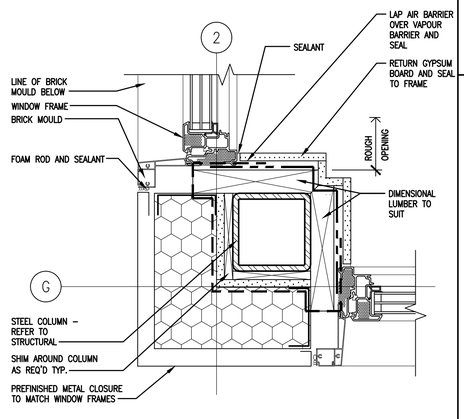
6 / A2.2 CLADDING CHANGE AT EXT. CORNER
1:5



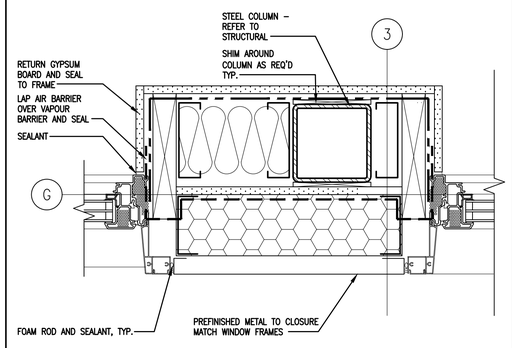
10 / A2.2 STUD TO CMU WALL INTERSECTION
1:10



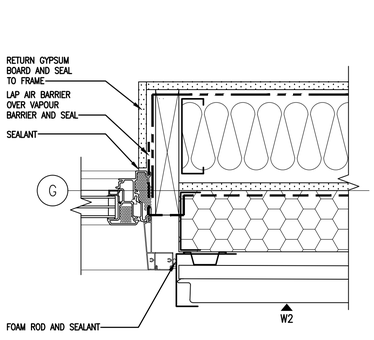
13 / A2.2 EXTERIOR CORNERS & CLADDING CHANGE
1:5



4 / A2.2 WINDOWS AT CORNER
1:5



7 / A2.2 COLUMN BETWEEN WINDOWS
1:5



11 / A2.2 EDGE OF WINDOW
1:5

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JUSTIN [illegible]
REGISTERED ARCHITECT
SASKATOON
oct. 19, 2018

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Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
DE

Drawn by/Dessine par
JMM

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

PLAN DETAILS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	A4.1	0

PWGSC – A1 – 841X594

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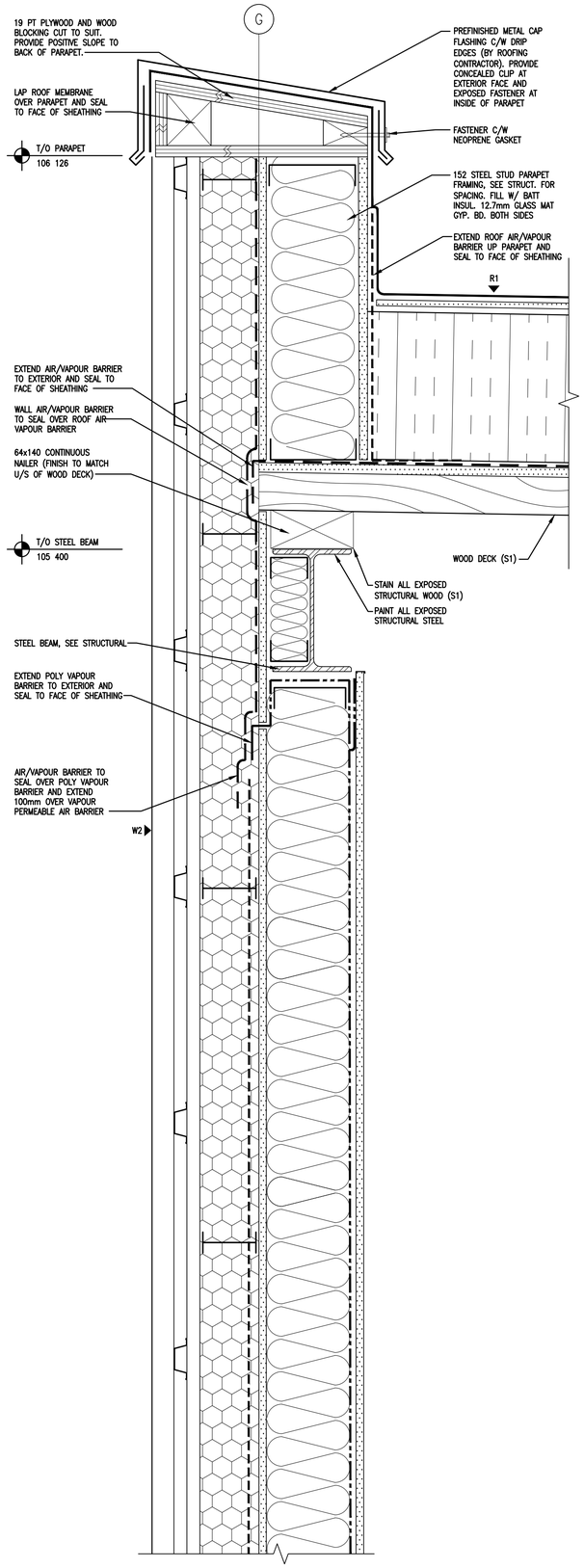
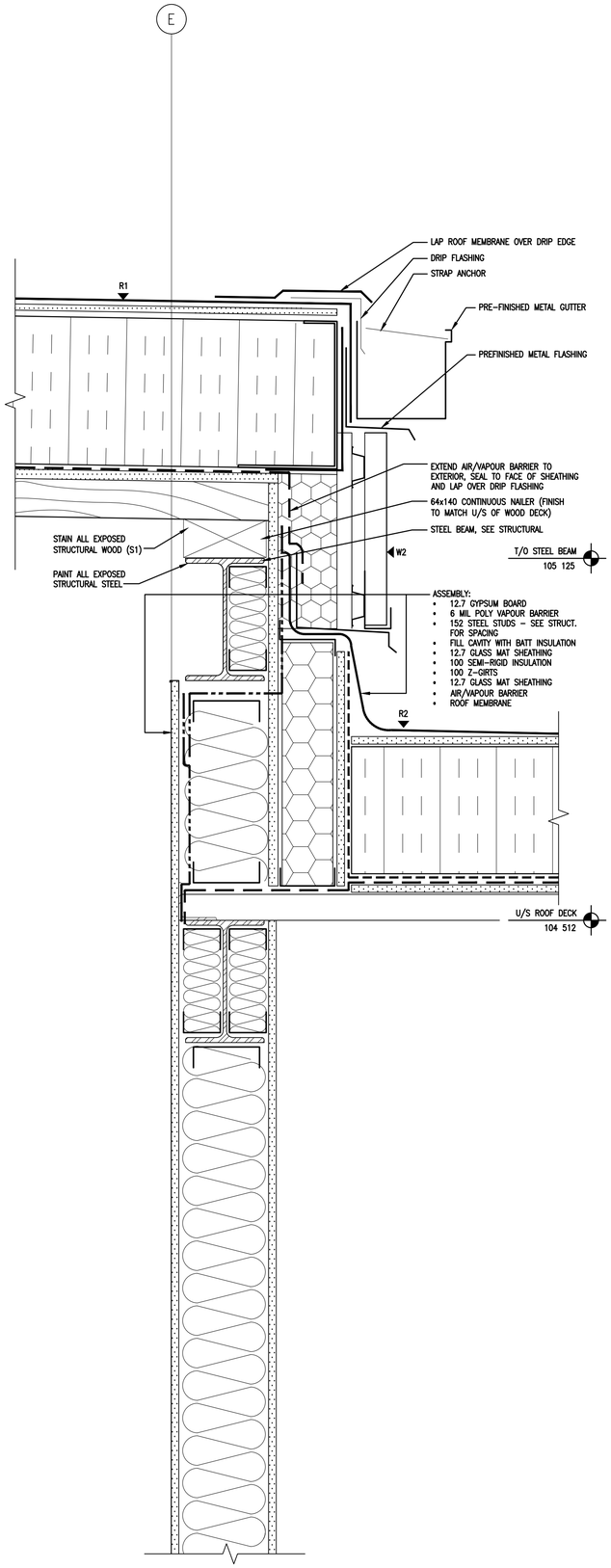
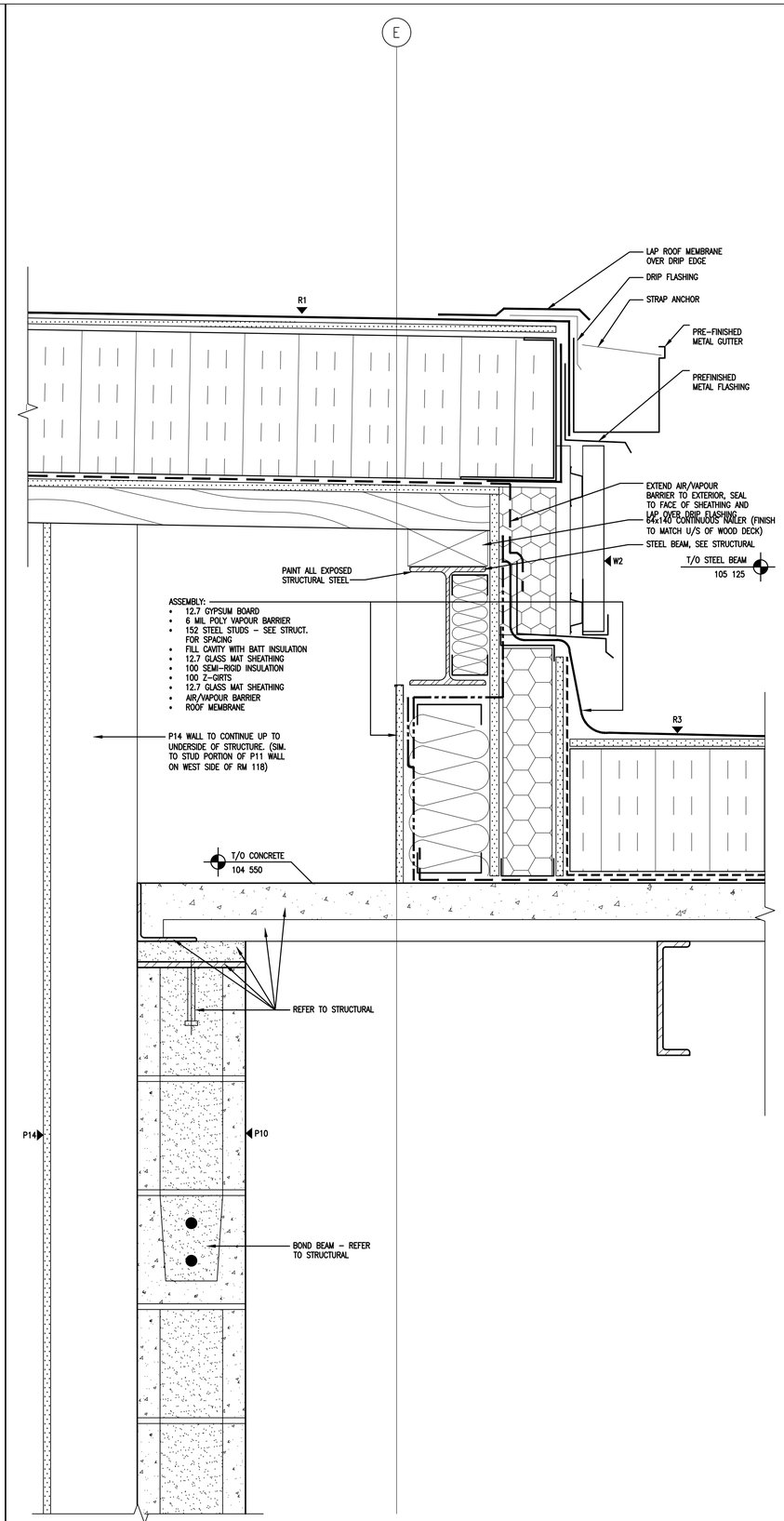


1 A3.3 PARAPET DETAIL
1:5



2 A3.3 ROOF HEIGHT TRANSITION DETAIL – AT GUTTER
1:5



3 A2.7 ROOF HEIGHT TRANSITION DETAIL – ABOVE RM 118
1:5

PWGSC – A1 – 841X594

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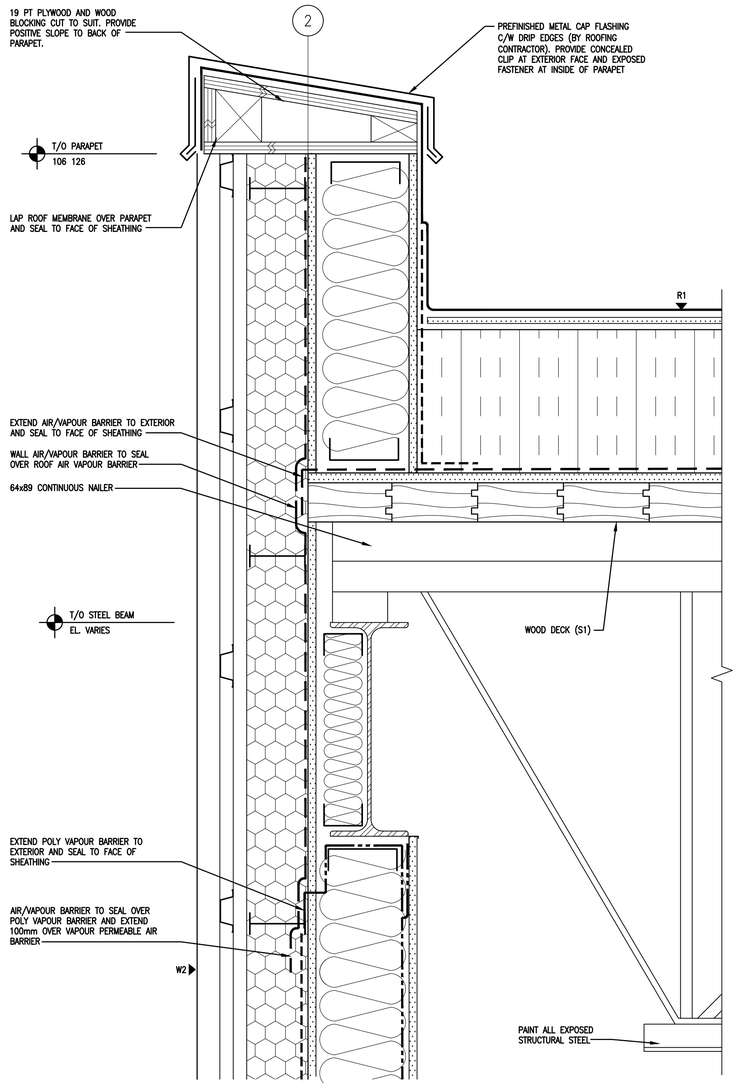
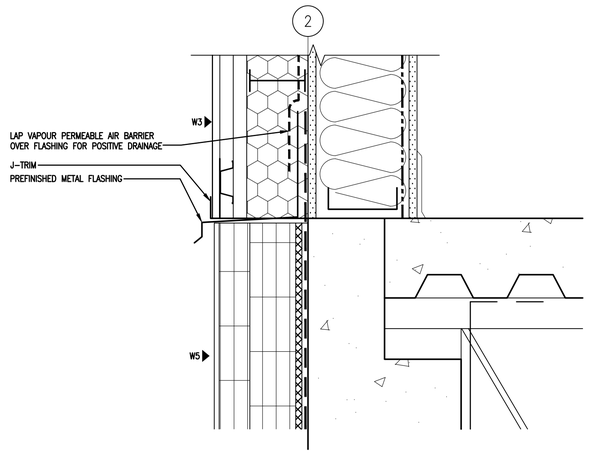
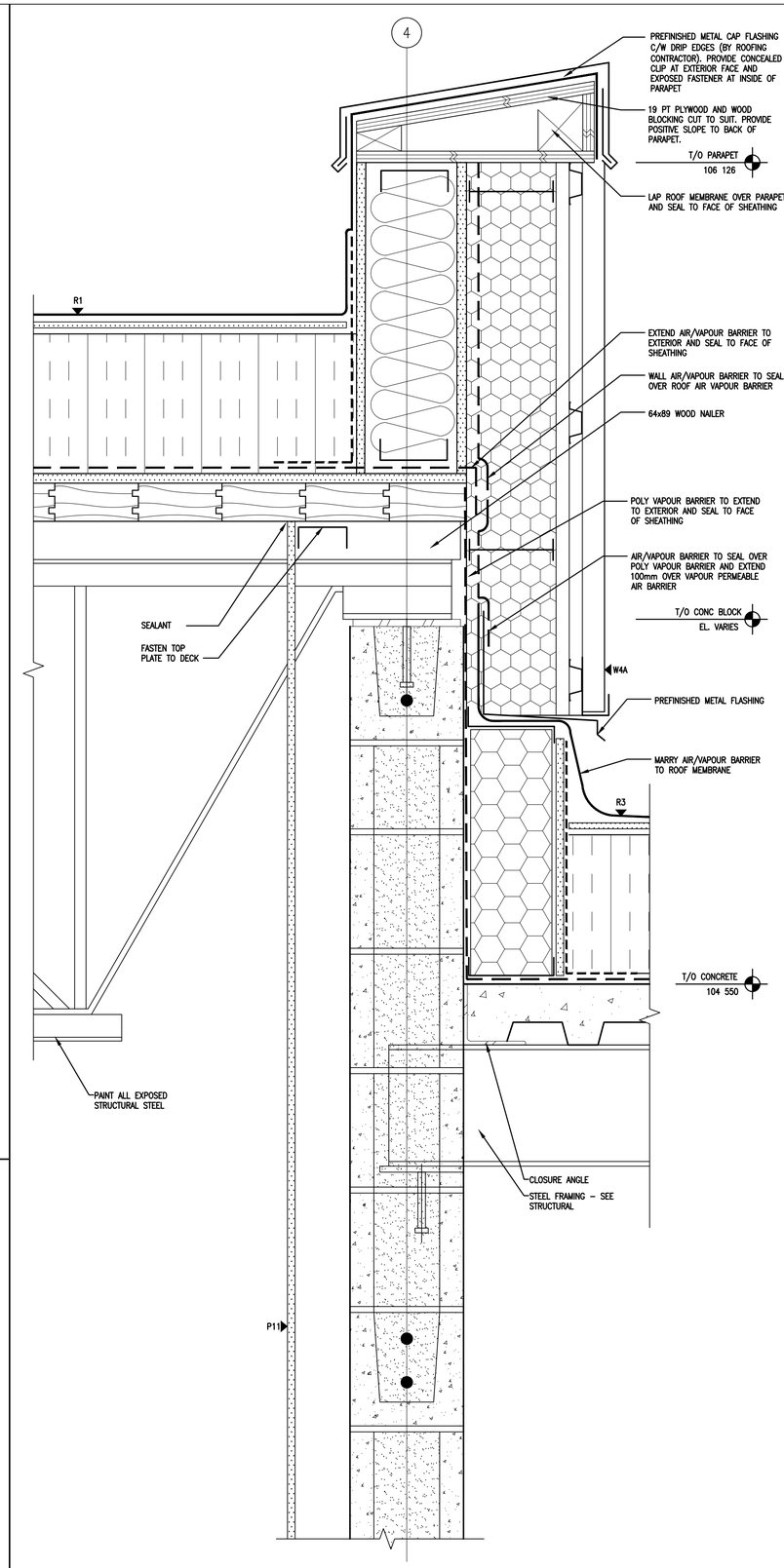


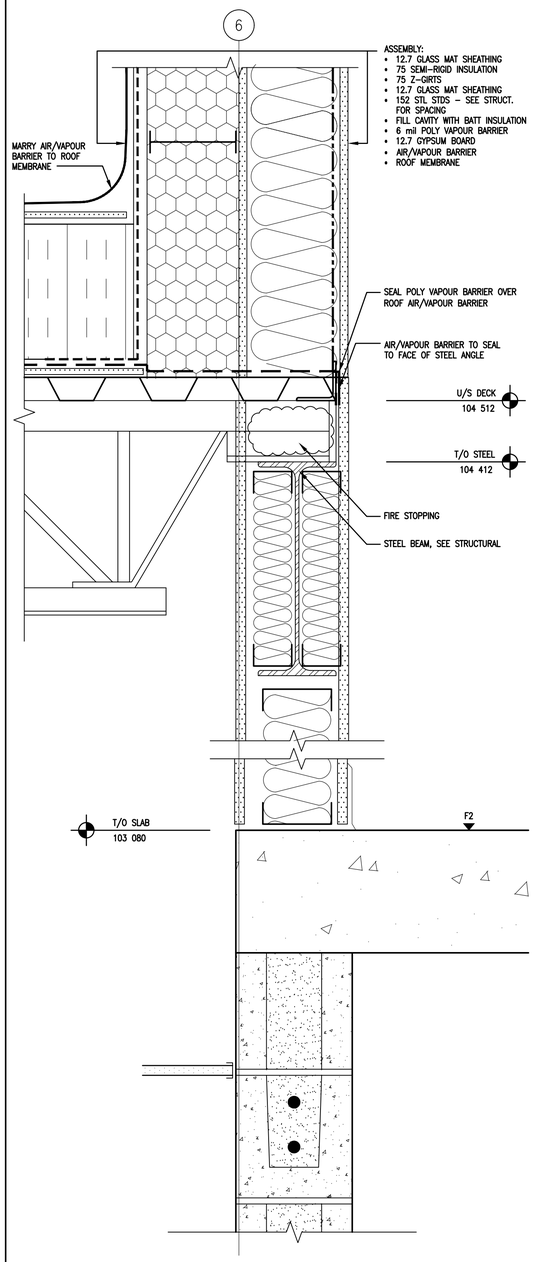
1 A3.4 PARAPET DETAIL
1:5



2 A3.4 MAIN FLOOR AT EXT. WALL
1:5



3 A3.4 ROOF HEIGHT TRANSITION DETAIL - AT PARAPET
1:5



4 A3.4 ROOF TRANSITION DETAIL AT SERVICE SPACE
1:5

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SASKATOON
oct. 19, 2018

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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
DE

Drawn by/Dessine par
JMM

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie

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R-10-2017	A4.3	0

PWGSC – A1 – 841X594

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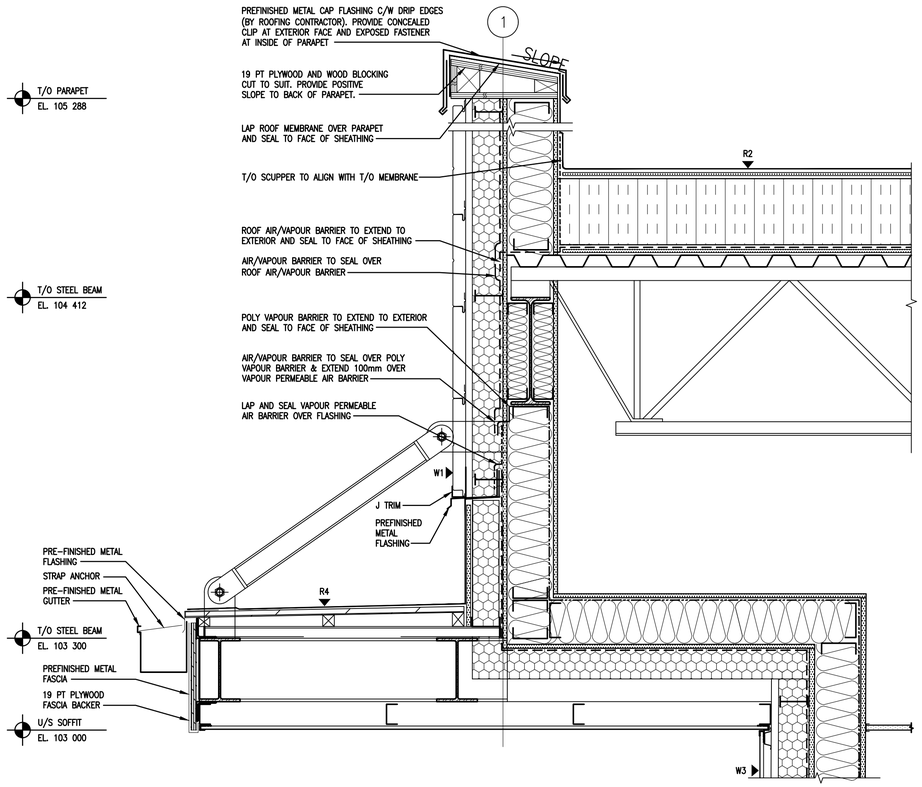
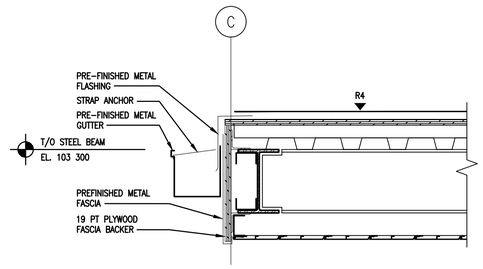


1 A3.4 ROOF OVER DECK
1:10



2 A2.7 ROOF OVER DECK
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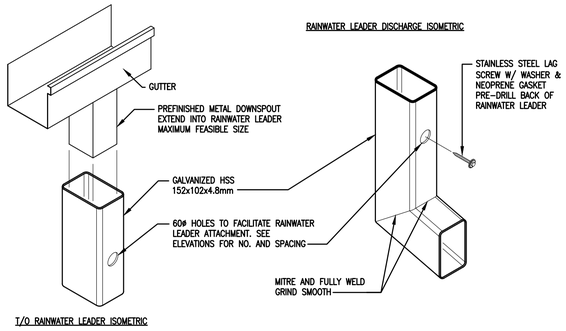
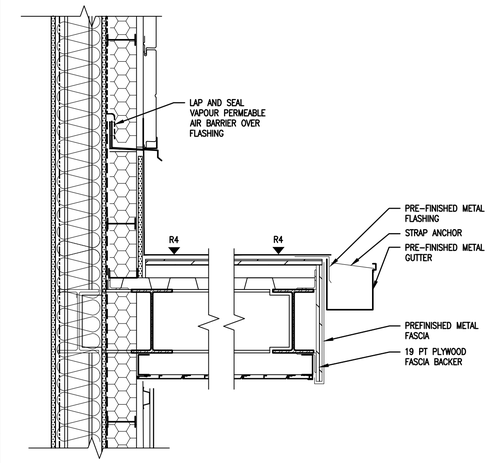


4 A3.4 RAINWATER LEADER
NTS



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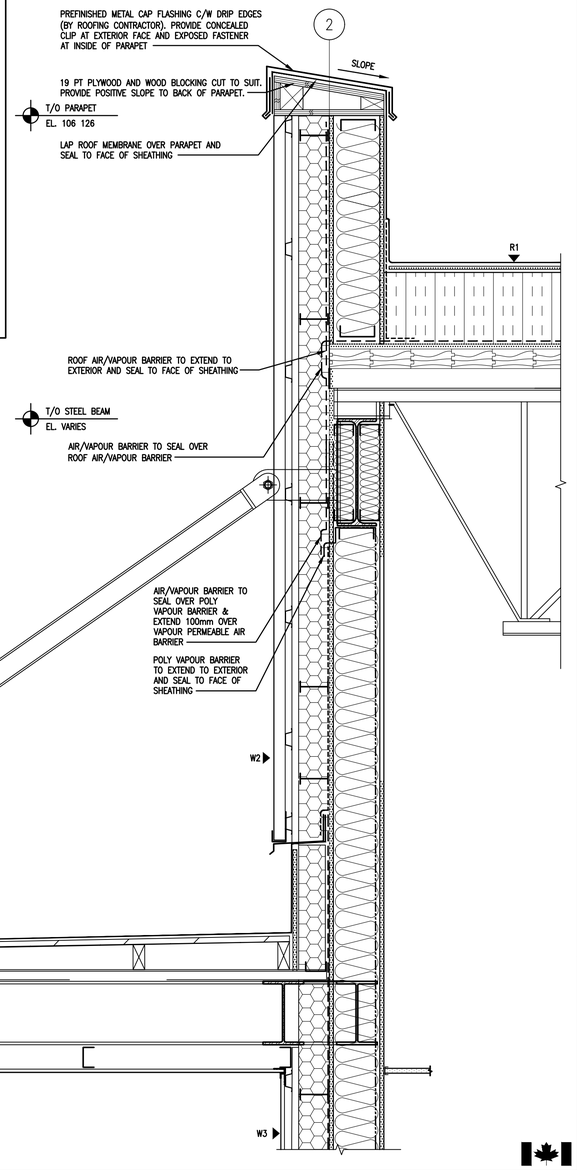
1:10



6 A2.7 ROOF OVER DECK
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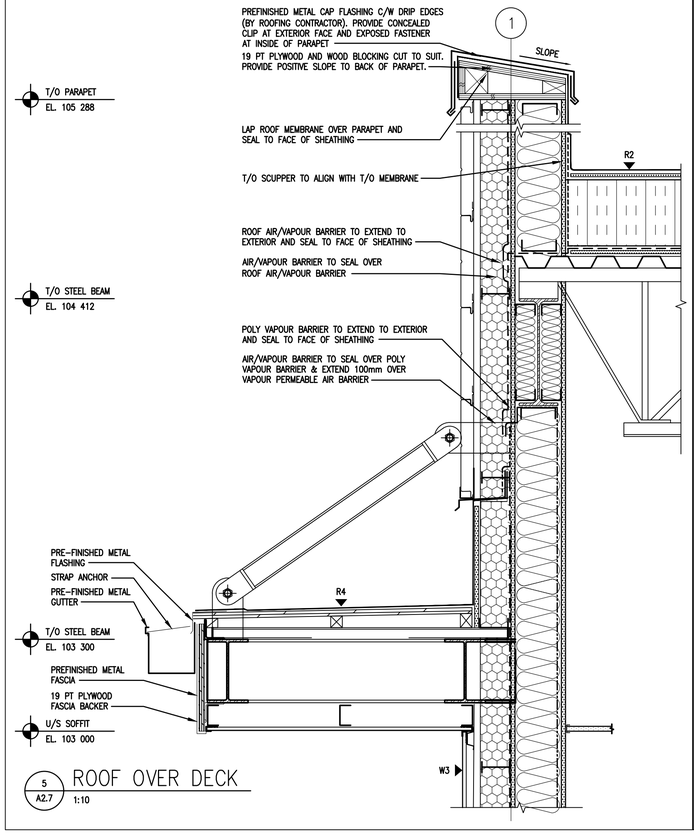

5 A2.7 ROOF OVER DECK
1:10

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JUSTIN MICHAEL STEVENSON
REGISTERED ARCHITECT
oct. 19, 2018

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PELICAN NARROWS, SASKATCHEWAN

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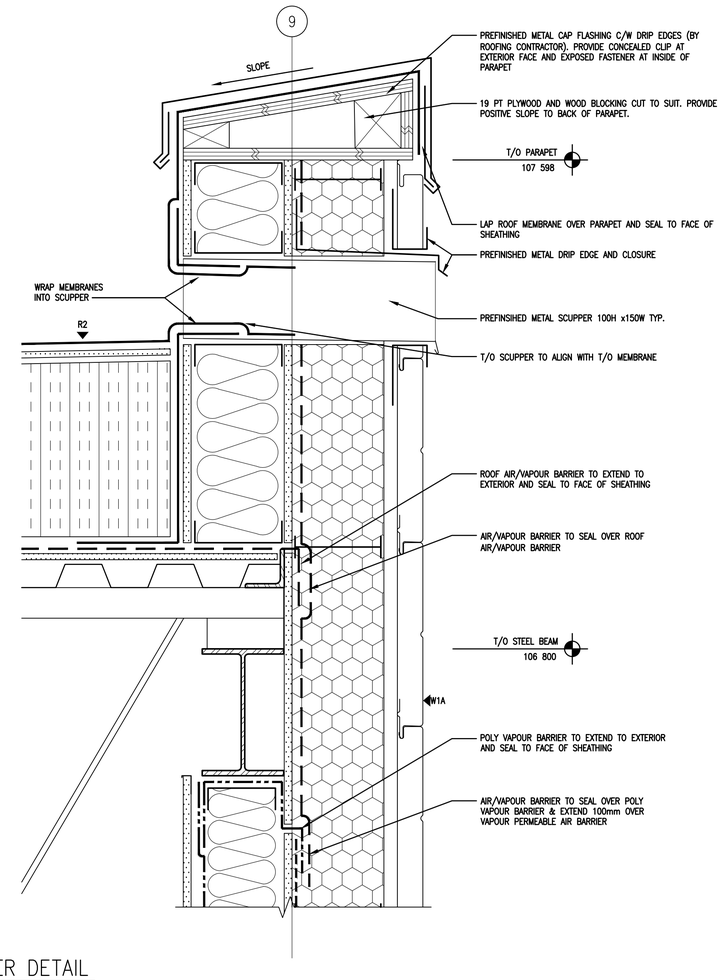

1 / A3.4 SCUPPER DETAIL
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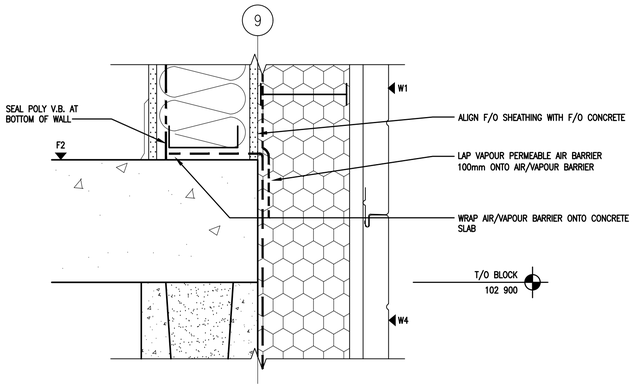
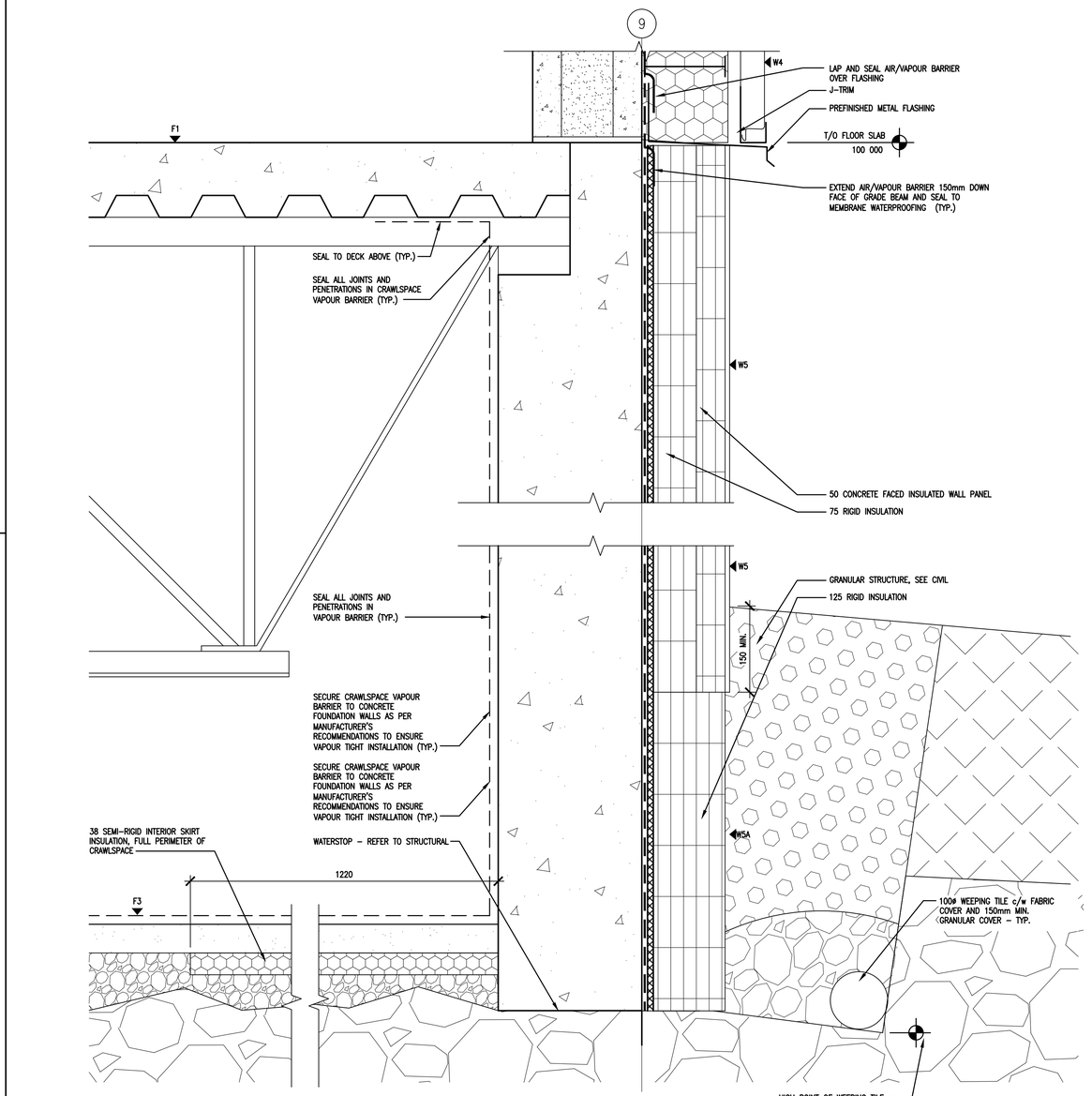
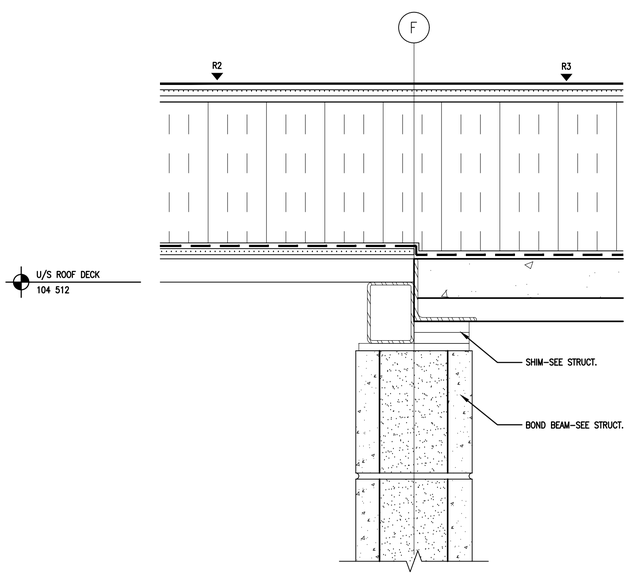


3 / A3.4 SERVICE SPACE FLOOR AT EXT. WALL
1:5



4 / A3.4 FOUNDATION WALL AT GRADE
1:5



2 / A3.3 ROOF TRANSITION DETAIL
1:5

PWGSC – A1 – 841X594

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

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REGISTERED ARCHITECT
SASKATOON
oct. 19, 2018

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DETAILS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	A4.5	0

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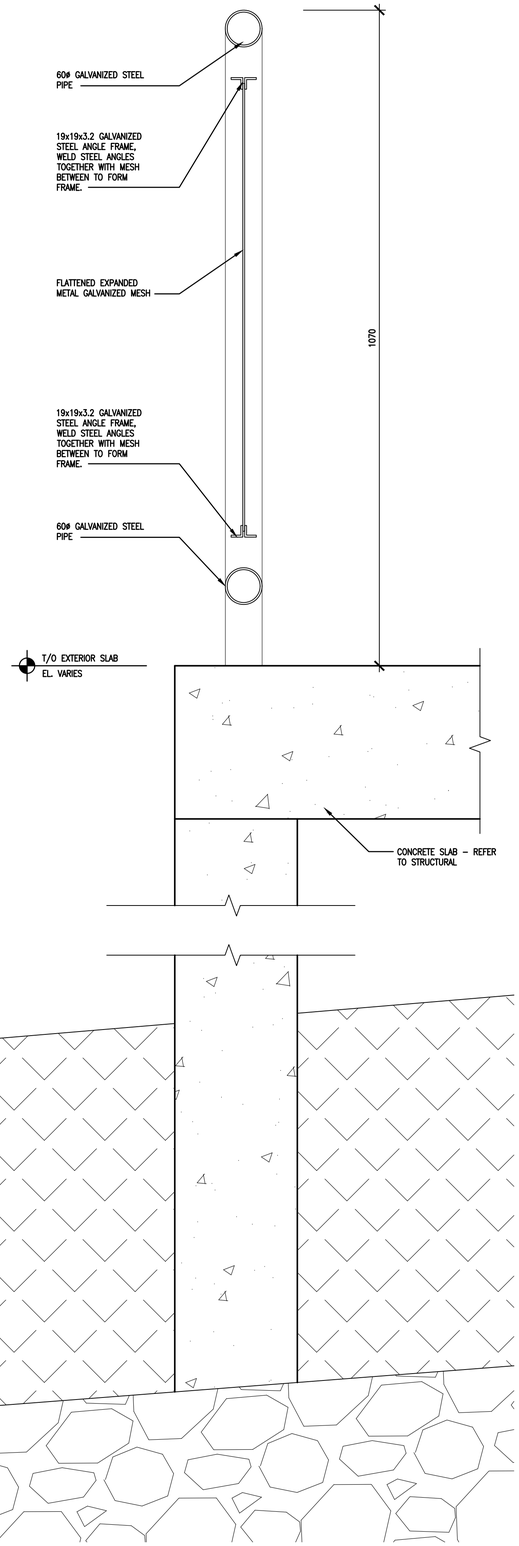

1 A3.4 GUARDRAIL SECTION
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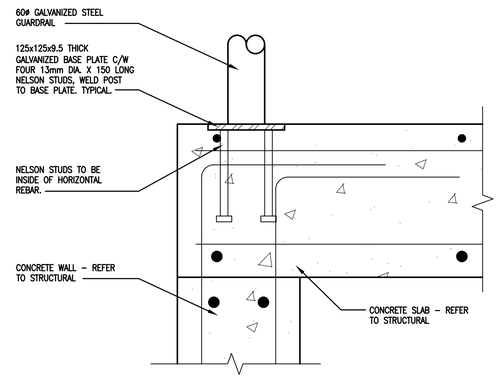

2 A3.4 GUARDRAIL BASE DETAIL
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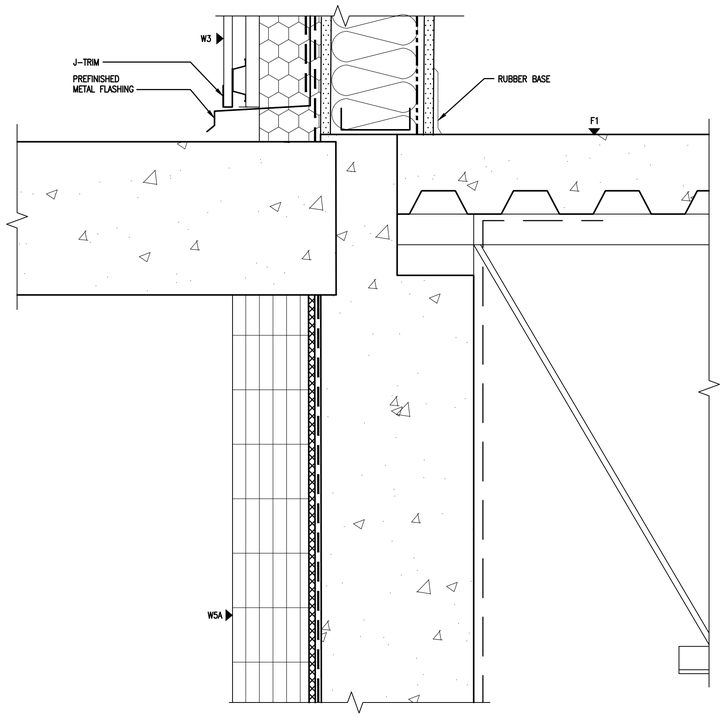

3 A3.4 FOUNDATION WALL AT DECK
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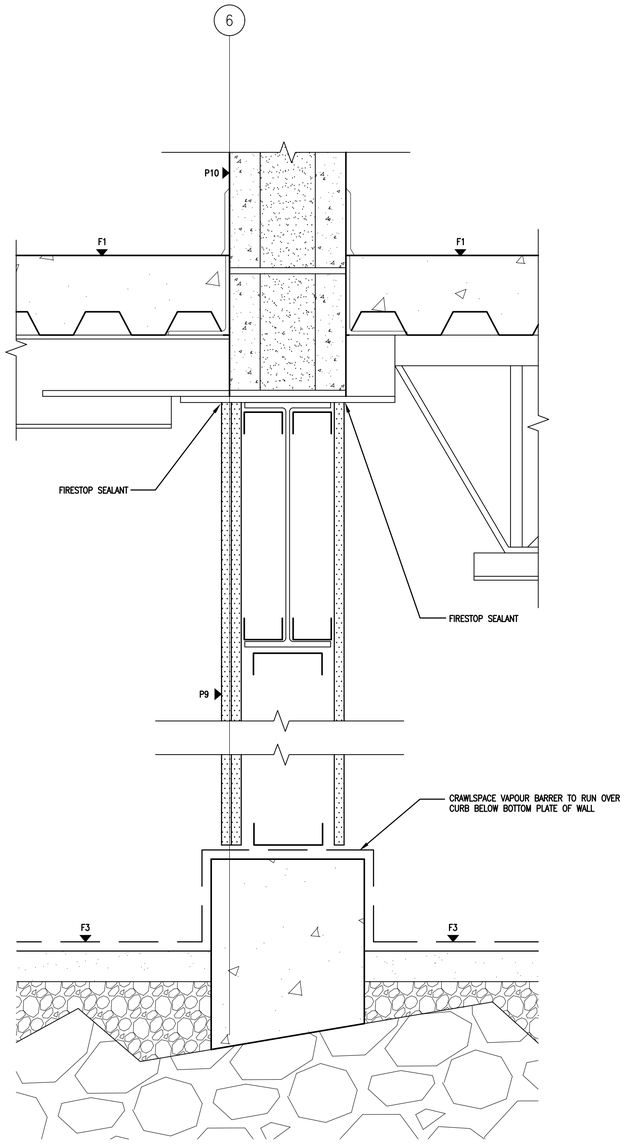

4 A3.4 CRAWLSPACE PARTITION SECTION
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SASKATOON
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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
DE

Drawn by/Dessine par
JMM

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

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R-10-2017	A4.6	0

PWGSC – A1 – 841X594

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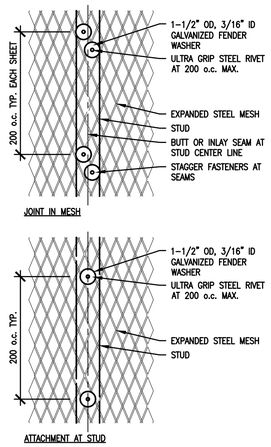
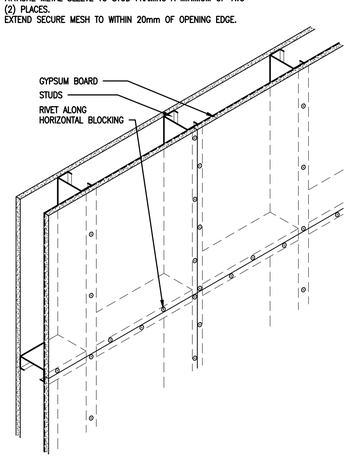


NOTES REGARDING PASS-THROUGHS IN SECURE MESH:

1. PROVIDE BLOCKING TO SUIT AROUND ALL PASS-THROUGHS IN SECURE MESH TO WITHIN 25mm OF PIPE/CONDUIT.
2. SECURE PIPE OR CONDUIT TO STUD FRAMING A MINIMUM OF TWO (2) PLACES.
3. TO ACCOMMODATE MOVEMENT OR EXPANSION WHERE NECESSARY, ENCLOSE PIPES/CONDUIT IN SHEET METAL SLEEVE WITH CLEARANCE NO GREATER THAN 6mm FROM PIPE/CONDUIT. ATTACHE METAL SLEEVE TO STUD FRAMING A MINIMUM OF TWO (2) PLACES.
4. EXTEND SECURE MESH TO WITHIN 20mm OF OPENING EDGE.



1 A2.2 MESH ATTACHMENT
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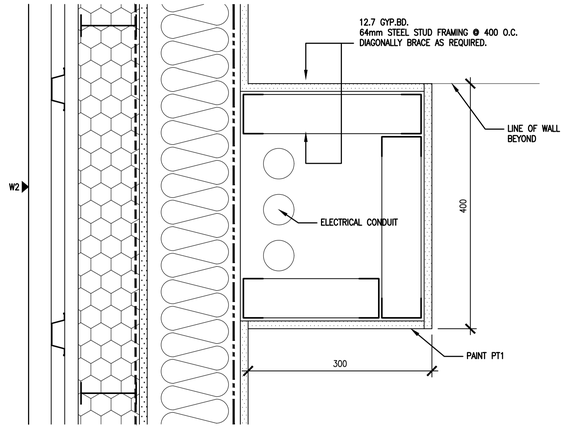

5 A3.4 BULKHEAD DETAIL
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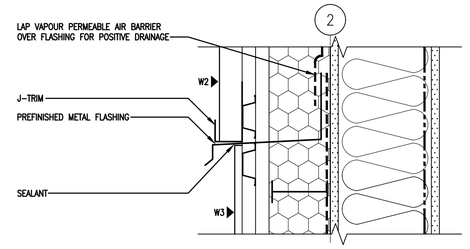

6 A3.4 CLADDING CHANGE DETAIL
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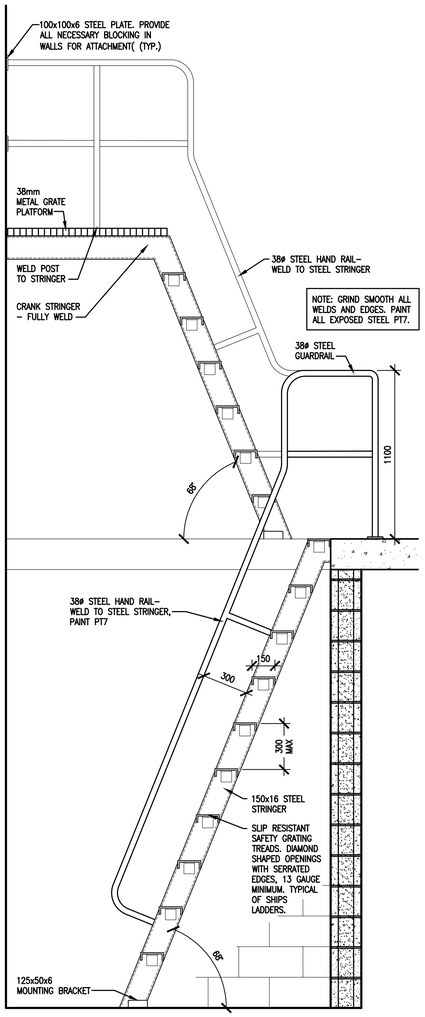

2 A2.5 SHIPS LADDER ROOM 139 (ROOM 167 SIM.)
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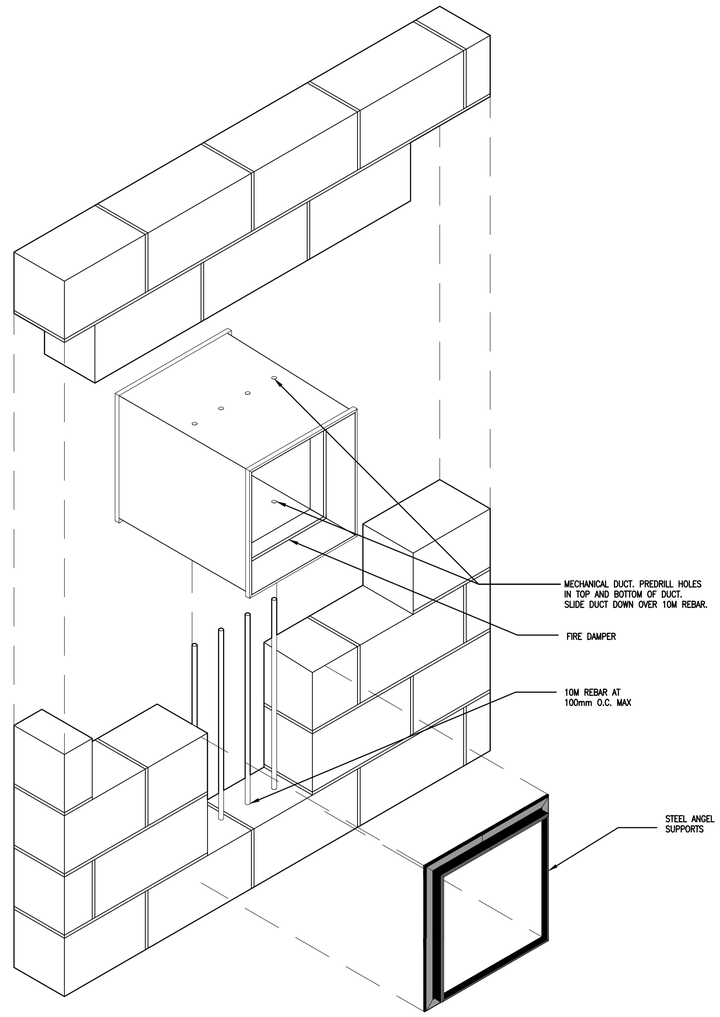

3 A2.2 DUCT PENETRATION AXONOMETRIC
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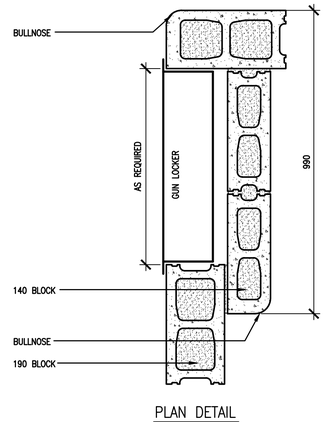
REQUIRED AT ALL PENETRATIONS INTO ROOMS 116, 118, 129, 135, 136, 137 AND 202



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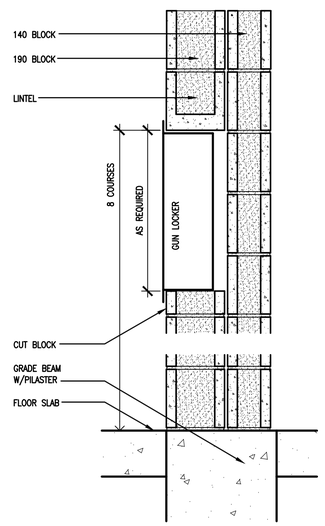

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4 A2.5 GUN LOCKER DETAIL
1:10

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SASKATOON
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R-10-2017	A4.7	0

PWGSC – A1 – 841X594

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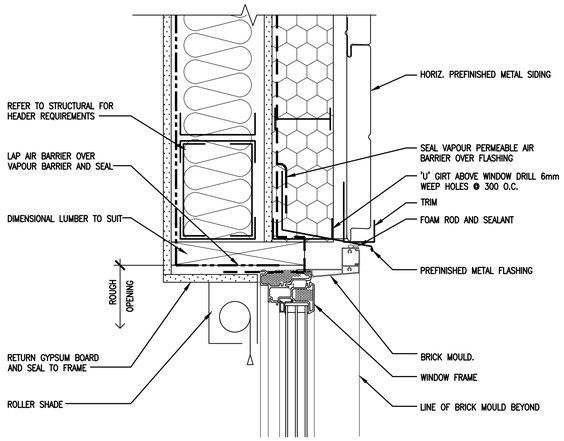

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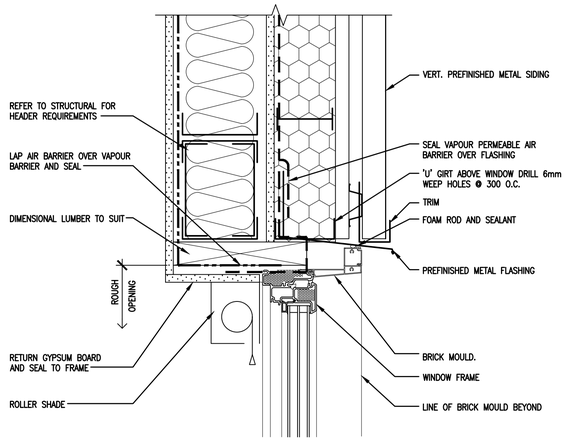

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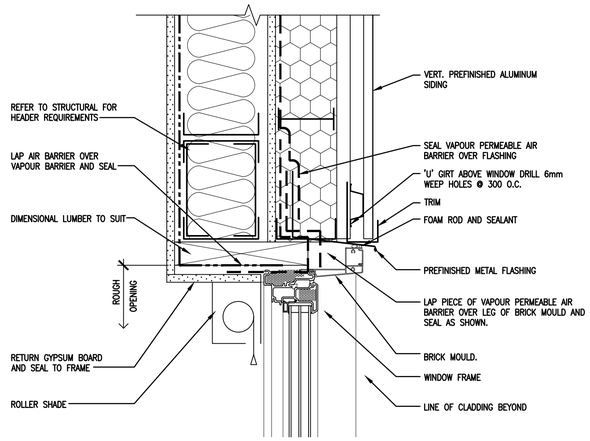

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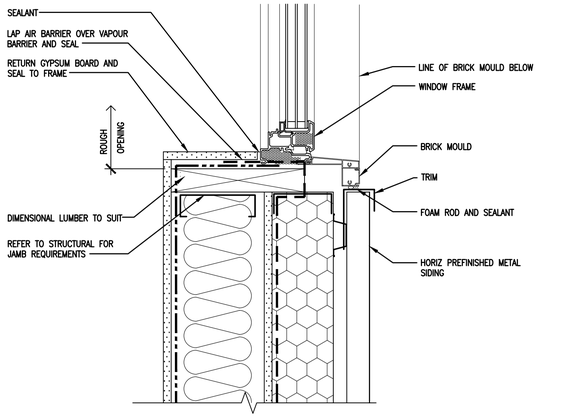

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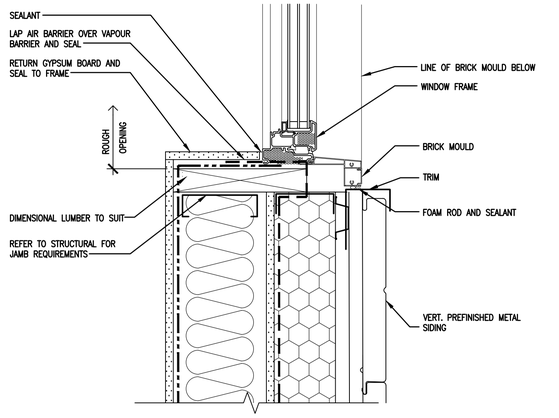

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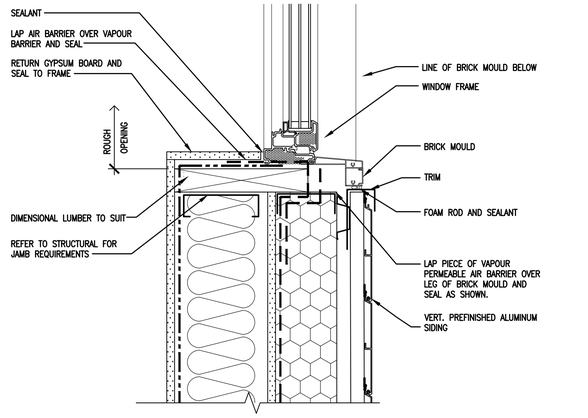

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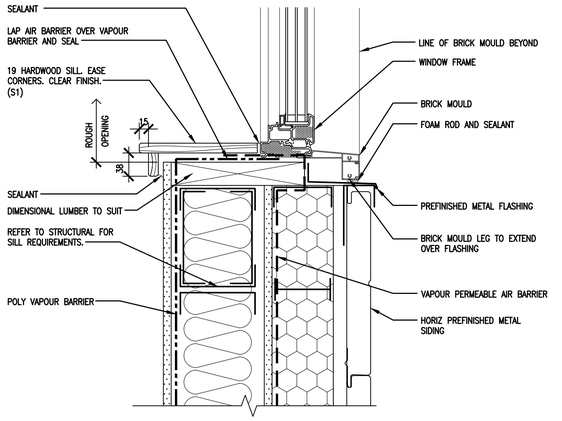

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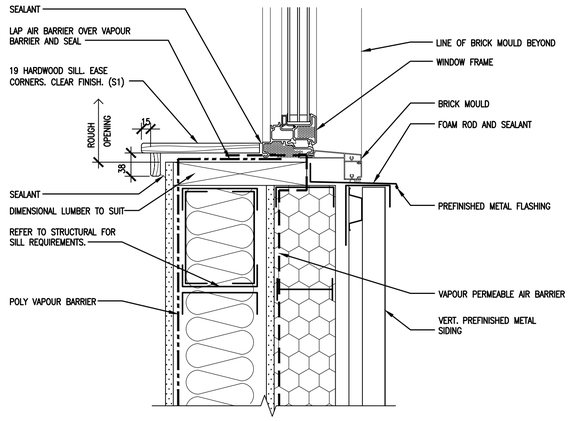

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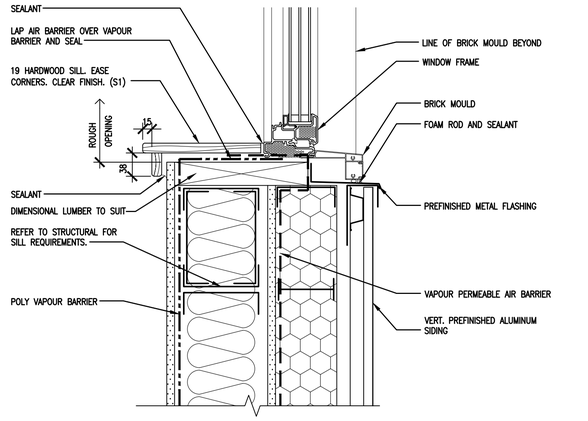

SILL

1 / A3.1 EXTERIOR WINDOW DETAILS
1:5

2 / A3.1 EXTERIOR WINDOW DETAILS
1:5

3 / A3.1 EXTERIOR WINDOW DETAILS
1:5

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R-10-2017	A4.8	0

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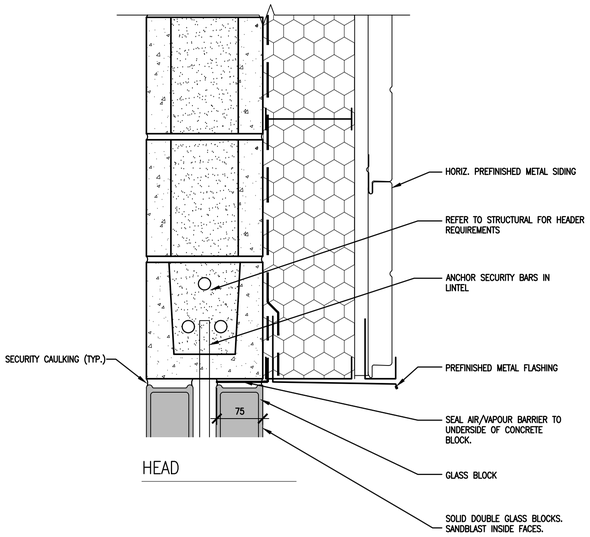

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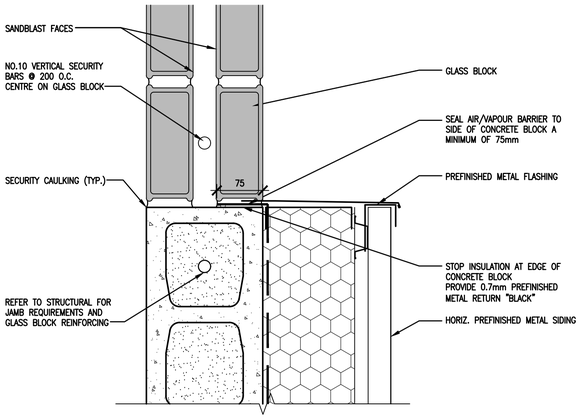

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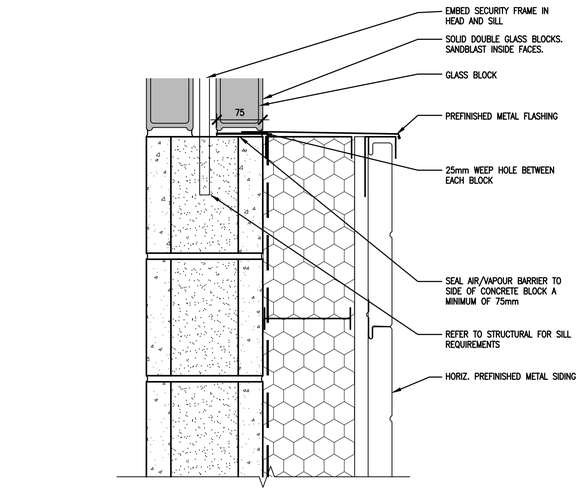

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1 / A3.1 GLASS BLOCK WINDOW DETAILS
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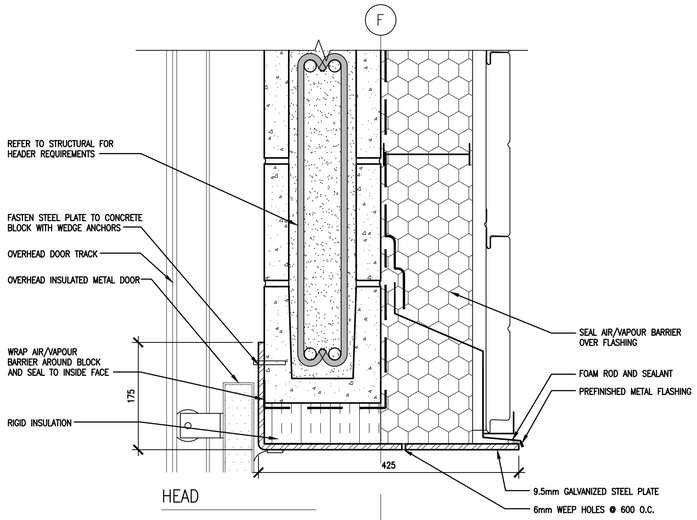

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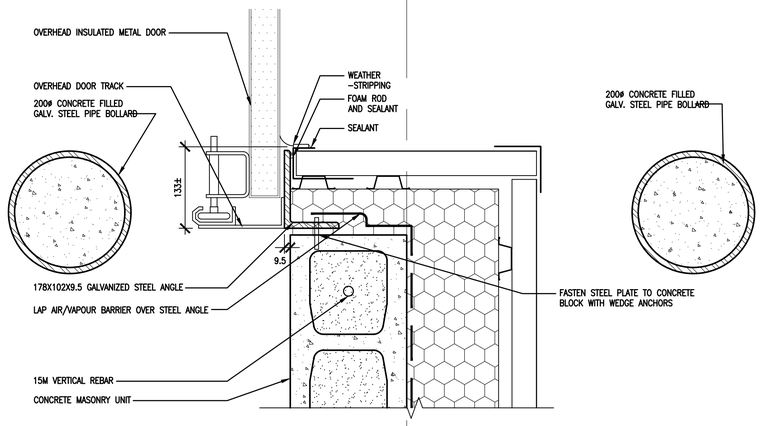

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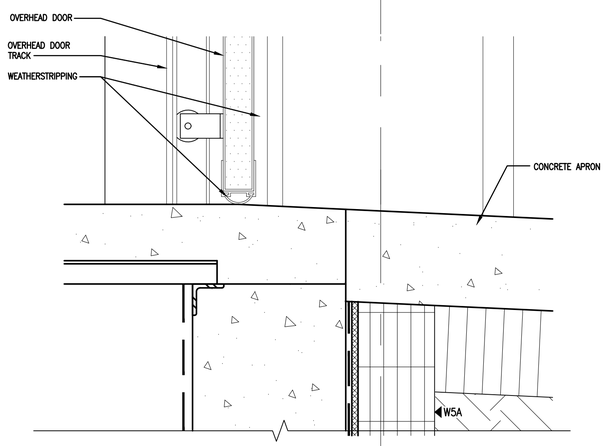

THRESHOLD

2 / A3.1 O.H. DOOR DETAILS
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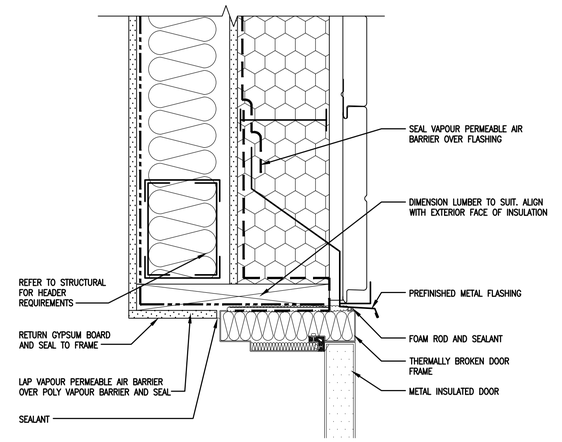

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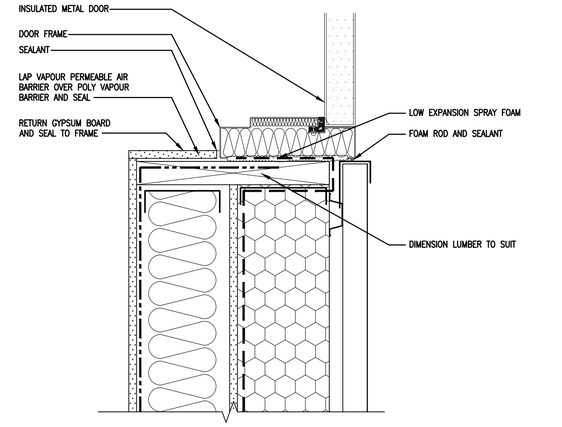

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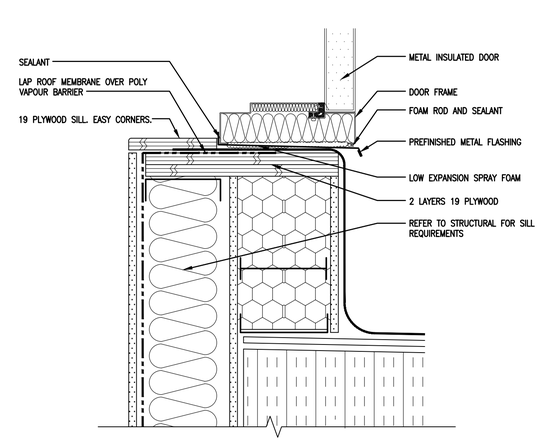

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3 / A3.1 EXTERIOR DOOR DETAILS
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R-10-2017	A4.9	0

PWGSC – A1 – 841X594

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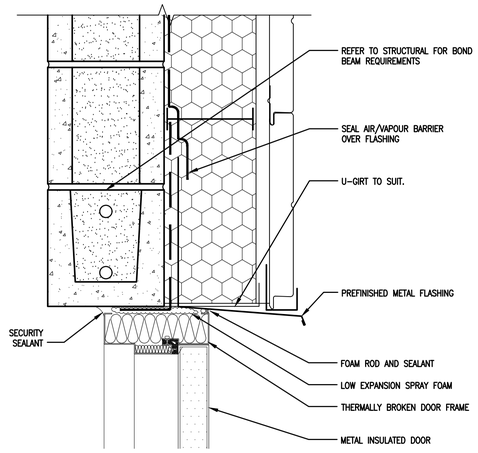

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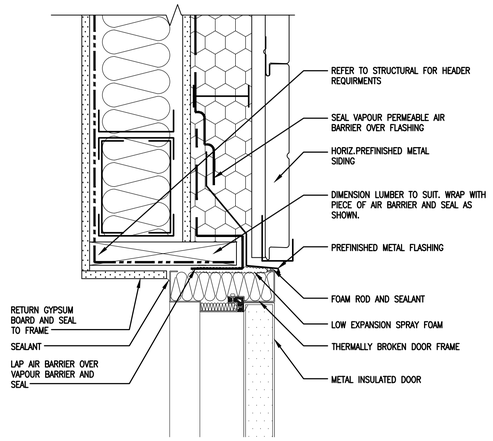

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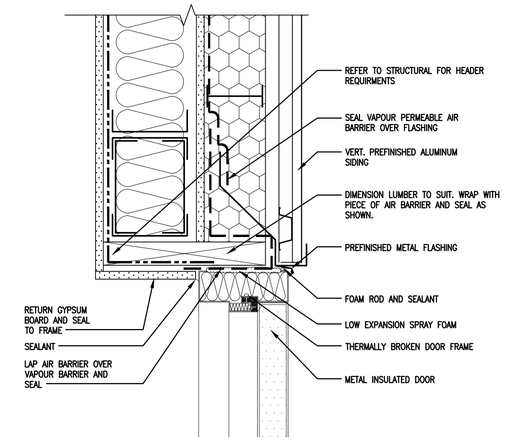

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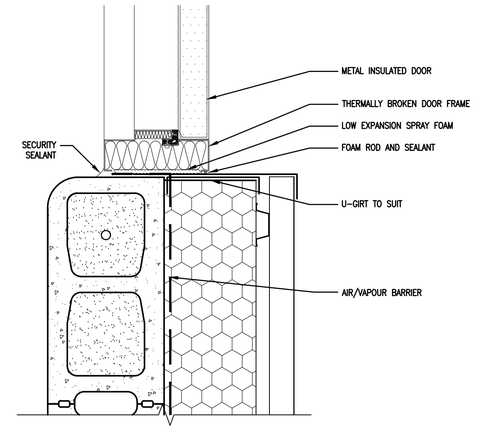

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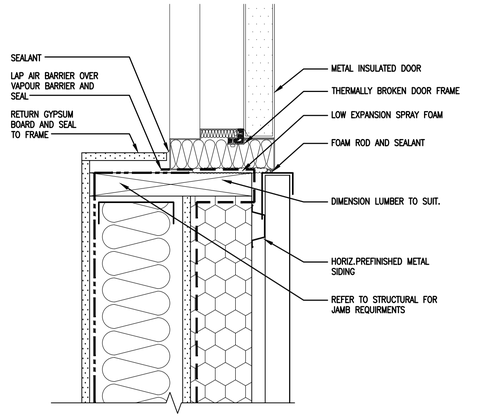

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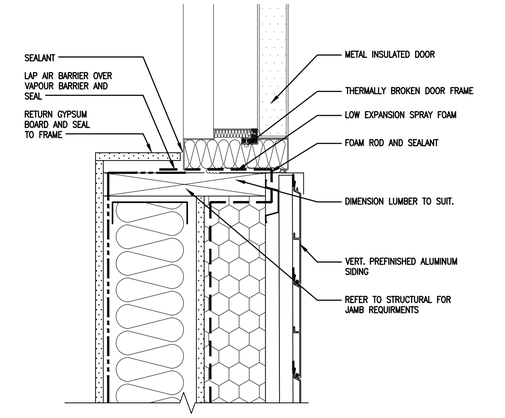

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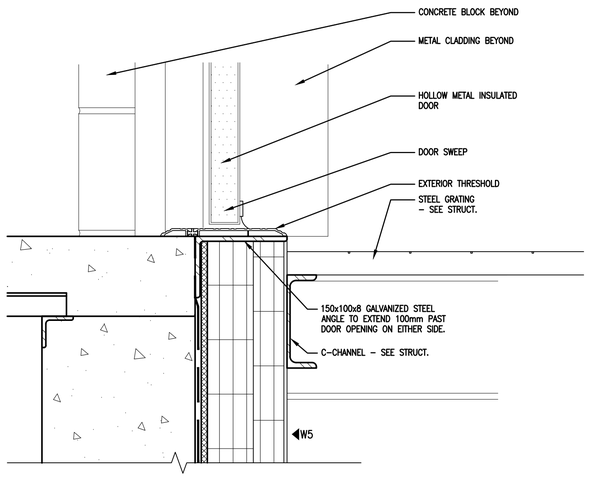

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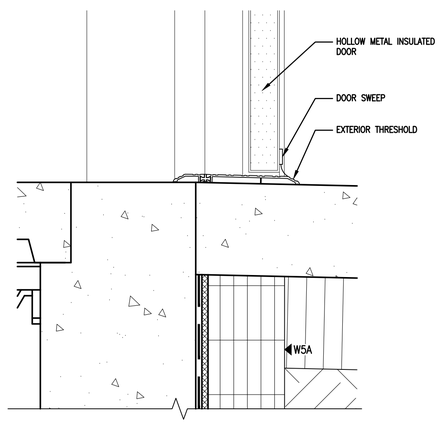

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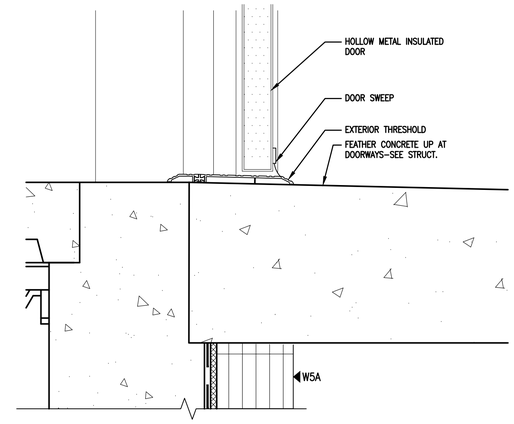

THRESHOLD

1 A3.1 EXTERIOR DOOR DETAILS 1:5

2 A3.1 EXTERIOR DOOR DETAILS 1:5

3 A3.1 EXTERIOR DOOR DETAILS 1:5

PWGSC – A1 – 841X594

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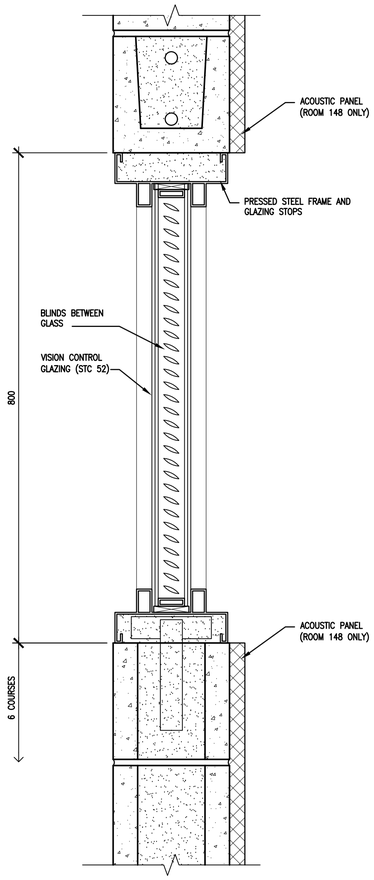

1 A5.6 VISION CONTROL GLAZING
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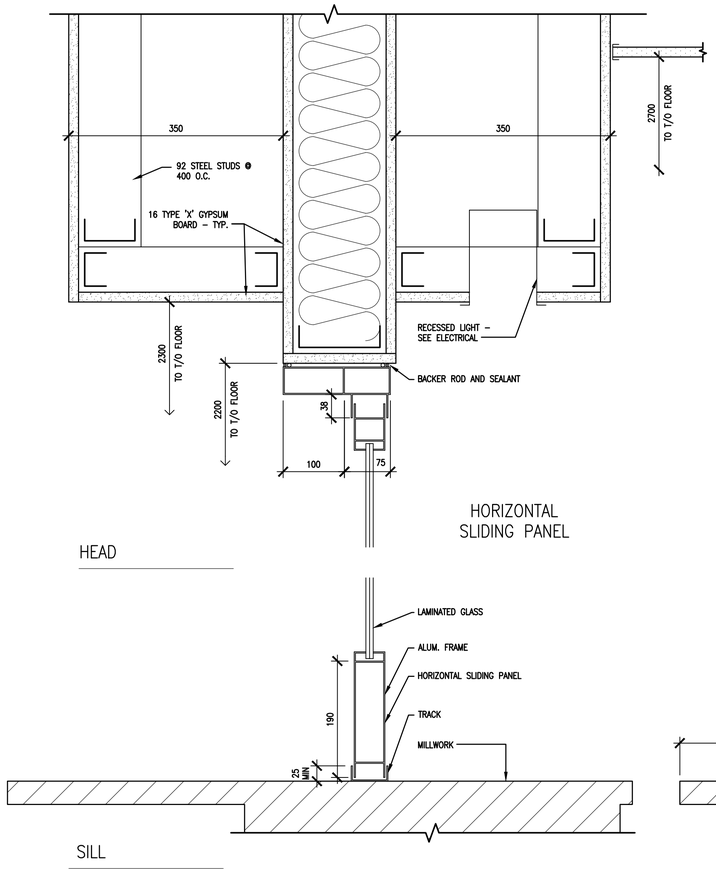
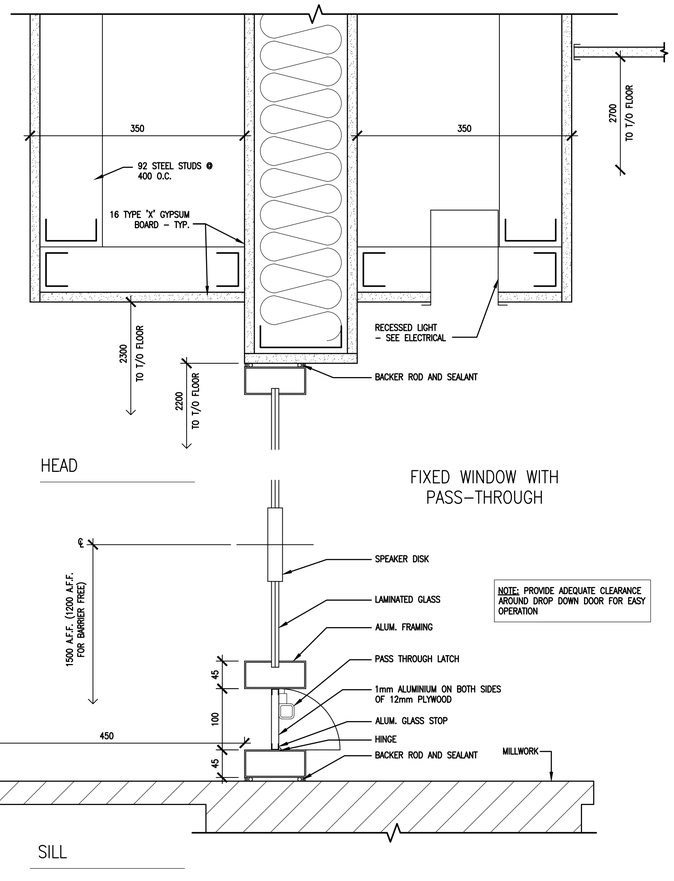
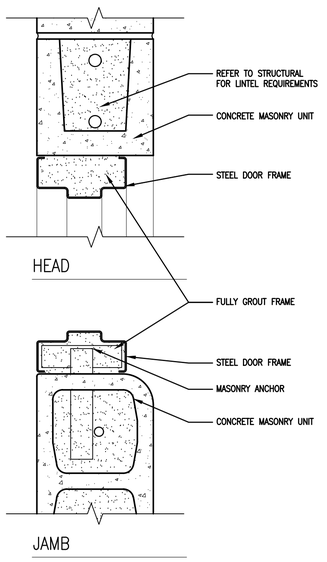
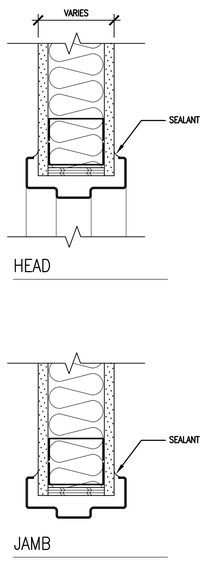


4 A5.2 ROOM 102 / 111 WINDOW DETAIL
1:5

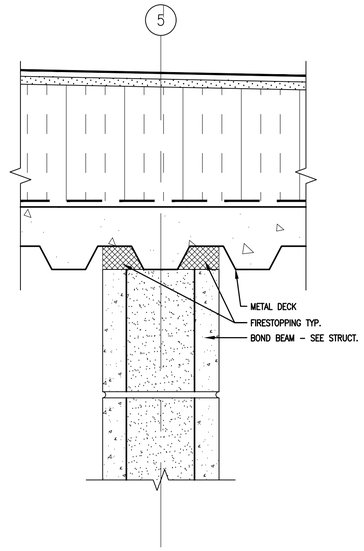




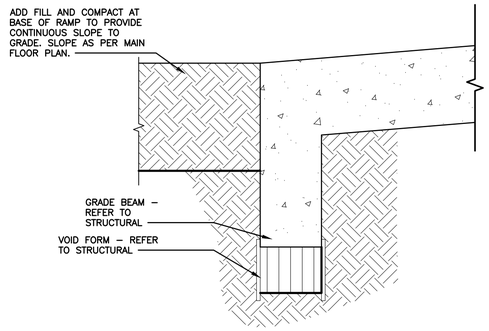
2 A5.6 INTERIOR DOOR DETAILS
1:5



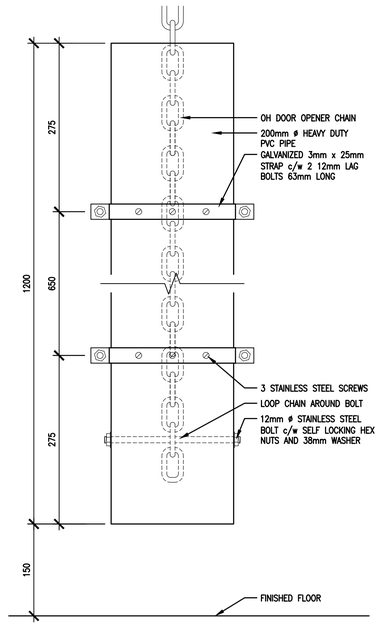
3 A5.3 INTERIOR DOOR DETIALS
1:5



5 A3.4 FIRESTOP DETAIL @ STEEL DECK
1:5



6 A3.4 EXTERIOR RAMP BASE DETAIL
1:5



7 A5.6 OH DOOR CHAIN PROTECTION
1:5

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SASKATCHEWAN ASSOCIATION OF ARCHITECTS
JUSTIN DE SMIT
REGISTERED ARCHITECT
SASKATOON
Oct. 19, 2018

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Revision/ Revision	Description/Description	Date/Date

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Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
DE

Drawn by/Dessine par
JMM

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
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INTERIOR GLAZING DETAILS
PARTITION DOOR DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	A4.11	0

PWGSC – A1 – 841X594

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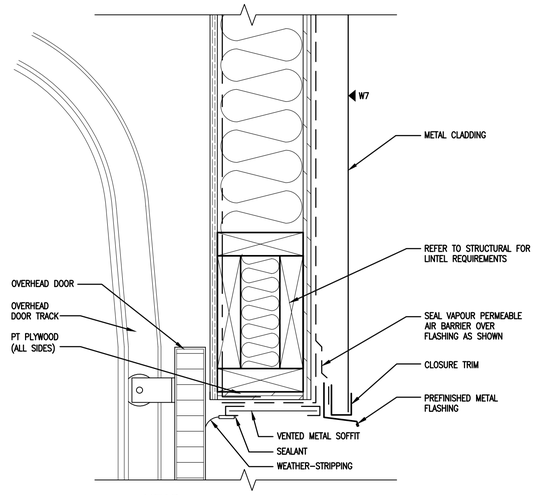

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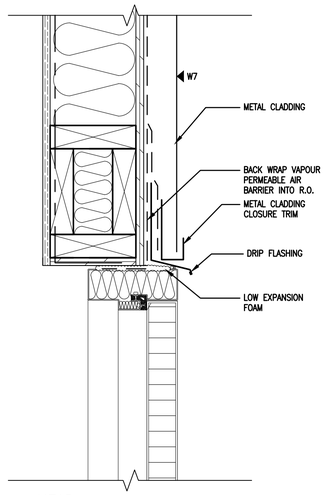

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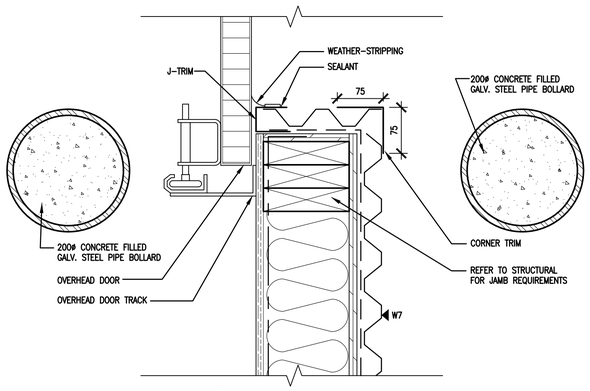

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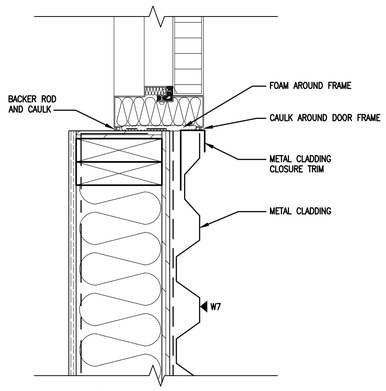

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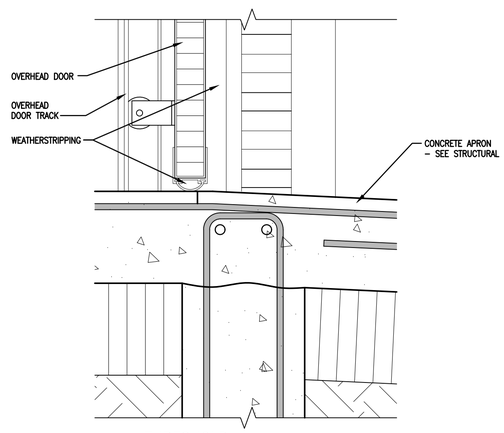
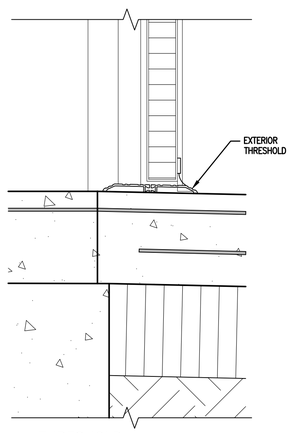


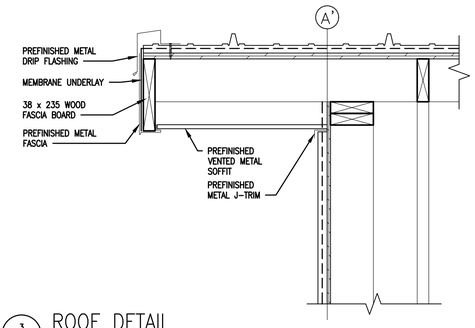
THRESHOLD



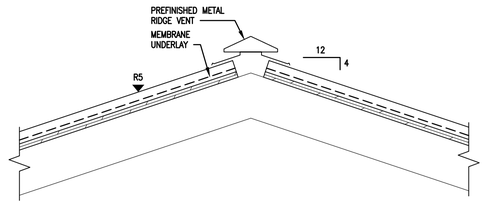
THRESHOLD

1 A3.2 OUT BUILDING O.H. DOOR DETAILS 1:5

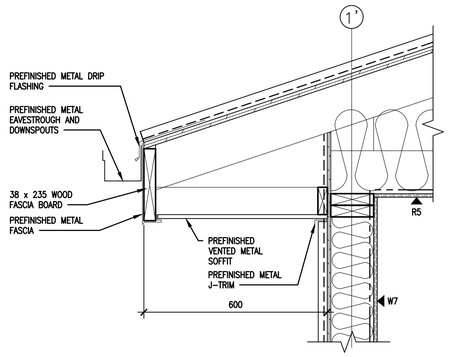
2 A3.2 OUT BUILDING MAN DOOR DETAILS 1:5



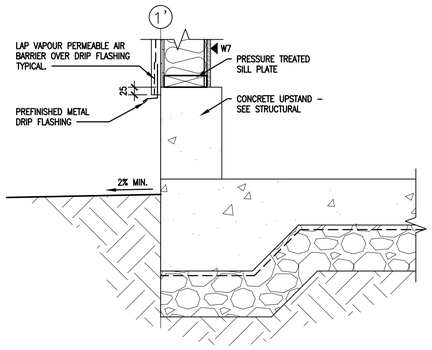
3 A3.3 ROOF DETAIL 1:10



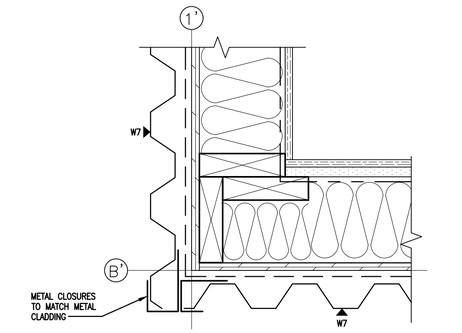
4 A3.3 ROOF PEAK DETAIL 1:10



5 A3.3 ROOF EAVE DETAIL 1:10

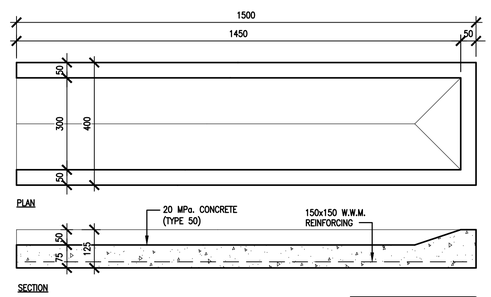


6 A3.3 BASE OF WALL DETAIL 1:10



7 A2.4 OUT BUILDING WALL INTERSECTION 1:5

8 A2.4 REMOVABLE GUARDRAIL 1:10



9 A2.2 CONCRETE SPLASH PAD 1:10

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SASKATCHEWAN ASSOCIATION OF ARCHITECTS
JUSTIN M. MESSMER
REGISTERED ARCHITECT
SASKATOON
oct. 19, 2018

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Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie

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OUT BUILDING DETAILS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	A4.12	0

PWGSC – A1 – 841X594

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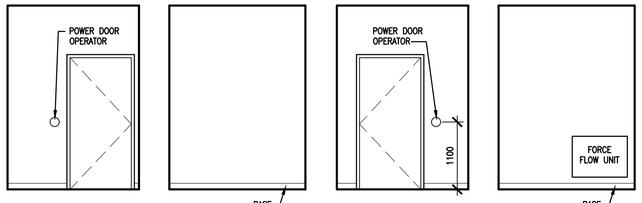

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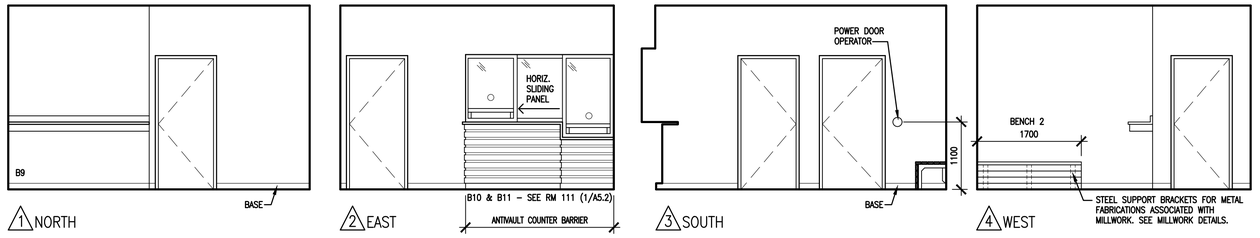
1 / A2.5 ROOM 101 1:50



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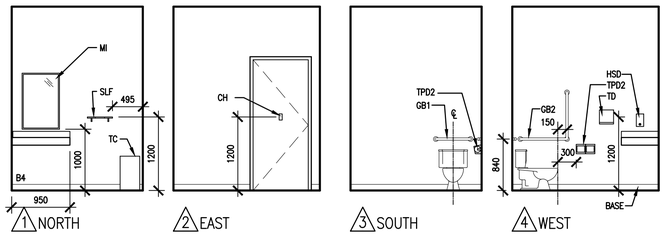

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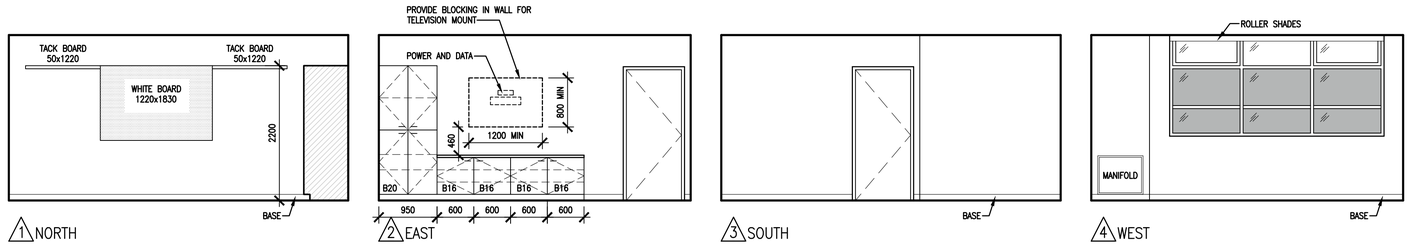
3 / A2.5 ROOM 103 1:50



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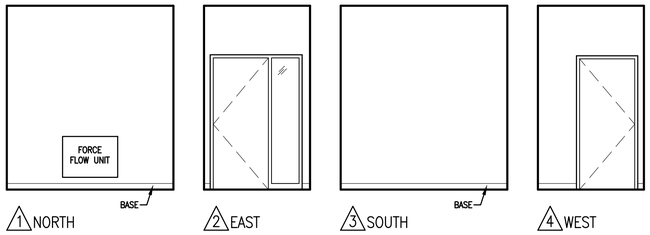
4 / A2.2 ROOM 104 1:50



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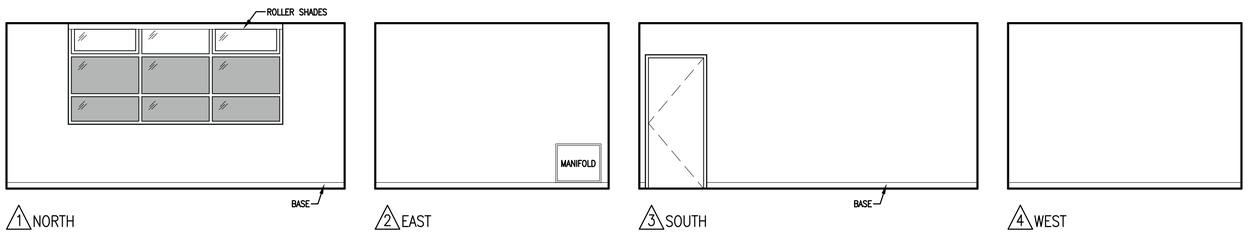
5 / A2.2 ROOM 105 1:50



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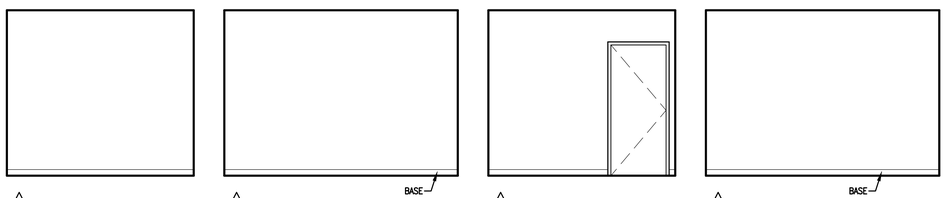
6 / A2.2 ROOM 106 1:50



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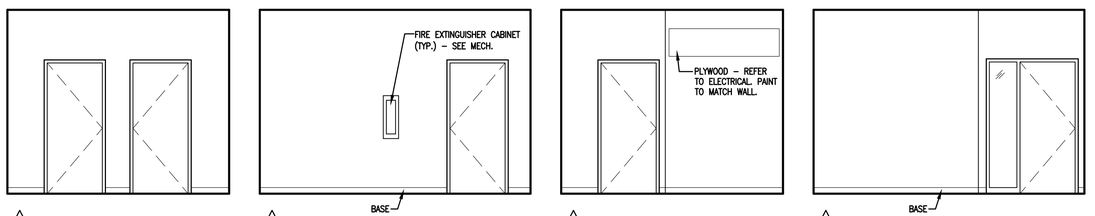
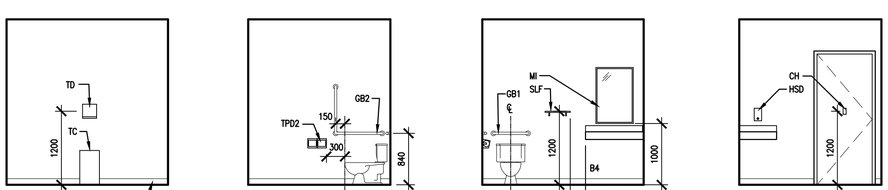
7 / A2.2 ROOM 107 1:50



1 NORTH 2 EAST 3 SOUTH 4 WEST

8 / A2.2 ROOM 108 1:50



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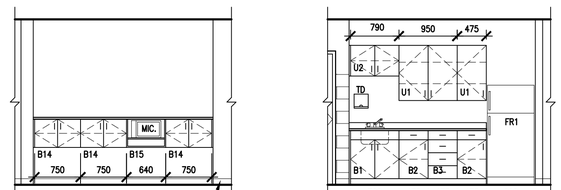
9 / A2.5 ROOM 109 1:50



1 NORTH 2 SOUTH

10 / A2.2 ROOM 110 1:50

PWGSC – A1 – 841X594

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oct. 19, 2018

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Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
DE

Drawn by/Dessine par
JMM

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Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

INTERIOR ELEVATIONS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	A5.1	0

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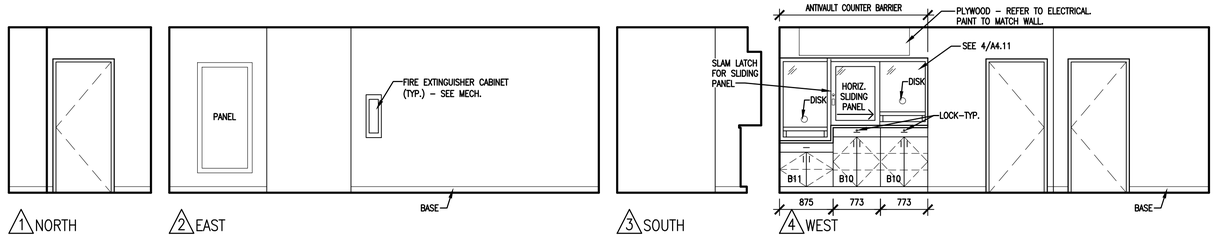

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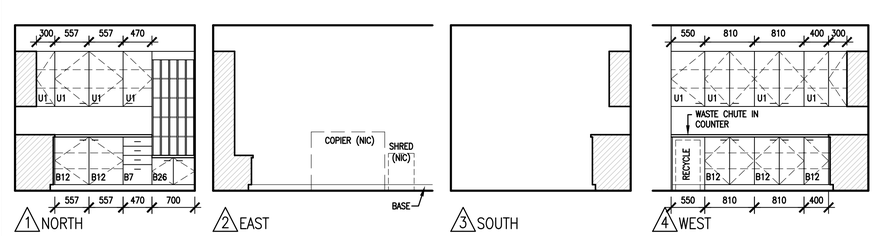
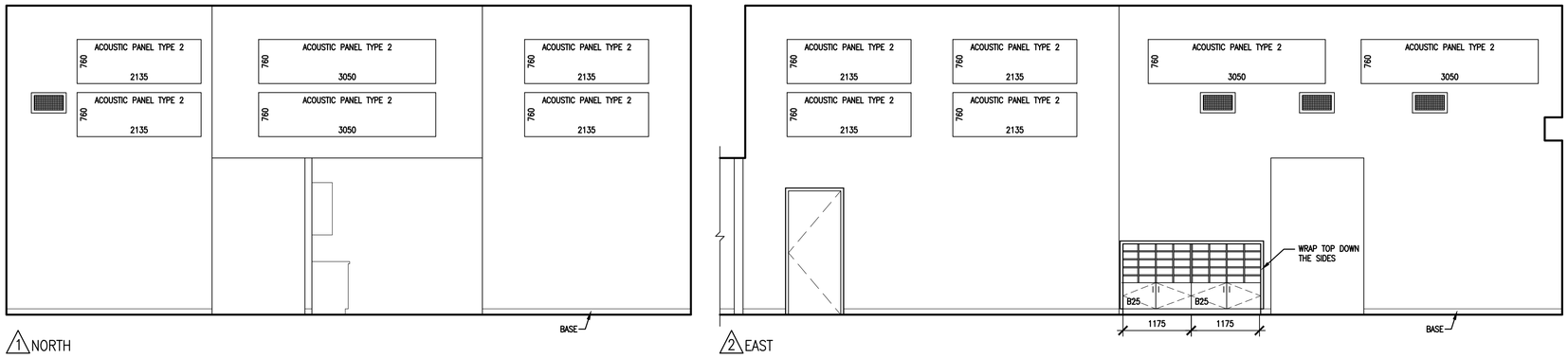
1 A2.2 ROOM 111 1:50



1 NORTH | 2 EAST | 3 SOUTH | 4 WEST

2 A2.2 ROOM 112 1:50



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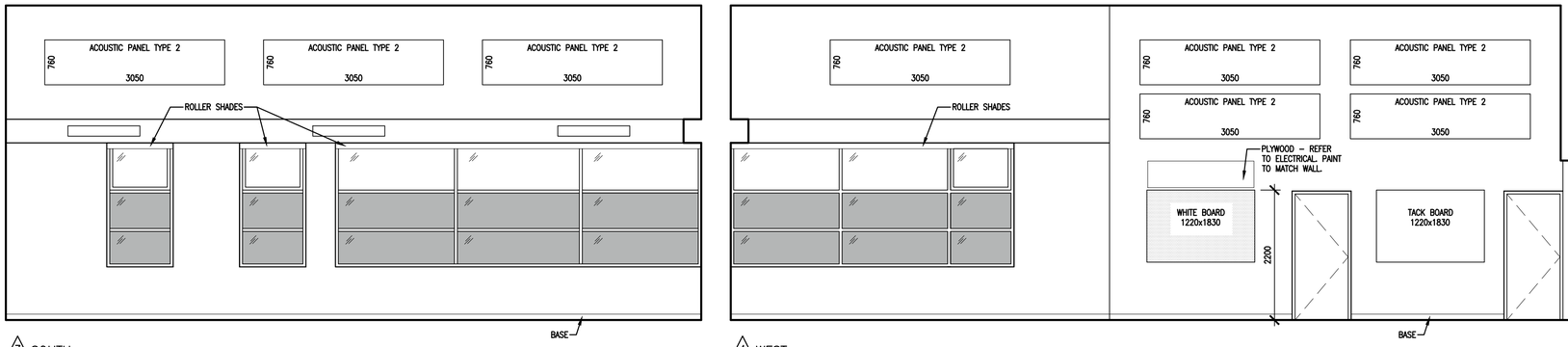
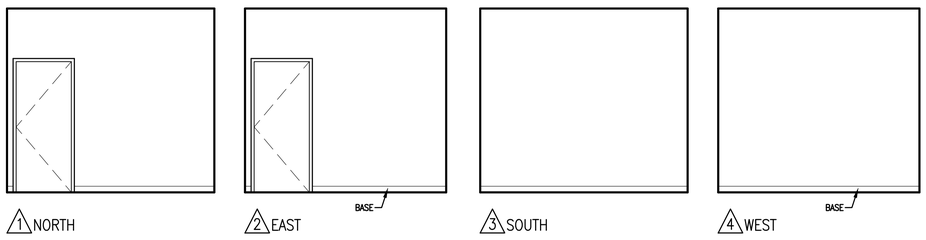


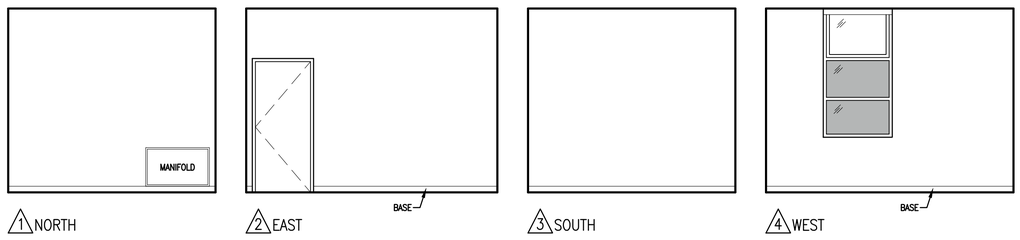
3 A2.2 ROOM 113 1:50

3 SOUTH | 4 WEST



1 NORTH | 2 EAST | 3 SOUTH | 4 WEST

4 A2.2 ROOM 114 1:50



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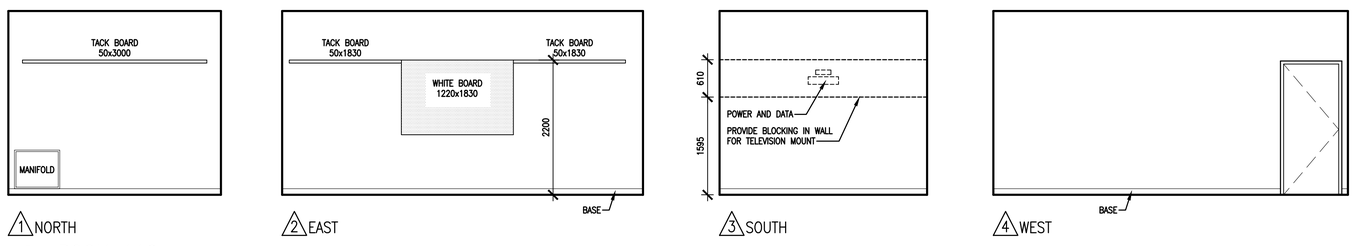
5 A2.2 ROOM 115 1:50



1 NORTH | 2 EAST | 3 SOUTH | 4 WEST

6 A2.2 ROOM 116 1:50

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SASKATCHEWAN ASSOCIATION OF ARCHITECTS
JUSTIN DE SCHIFFART
REGISTERED ARCHITECT
SASKATOON
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Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	A5.2	0

PWGSC – A1 – 841X594

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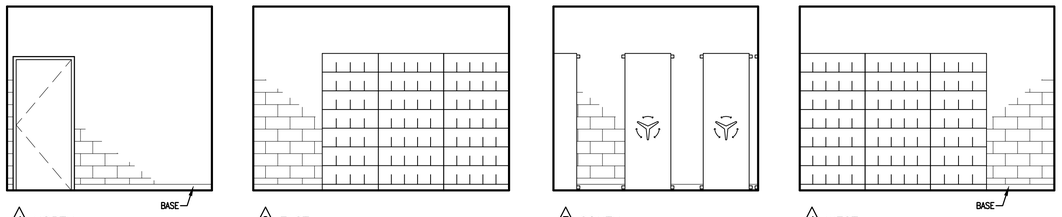

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1 / A2.2 ROOM 118
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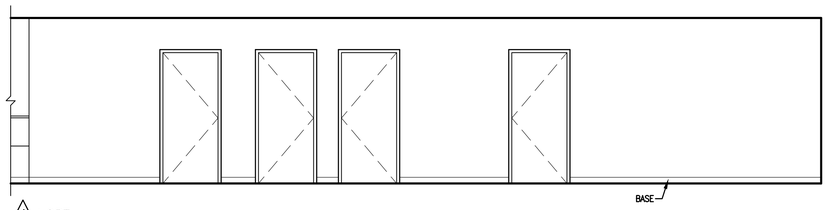

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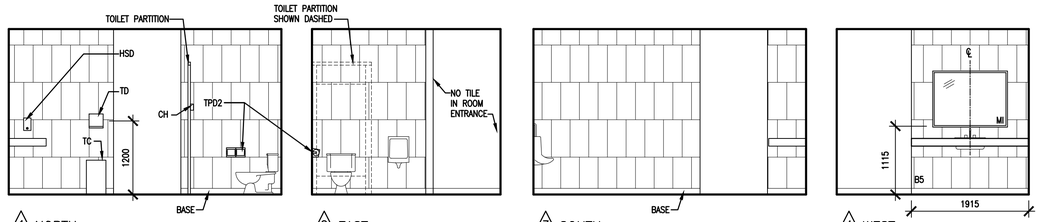
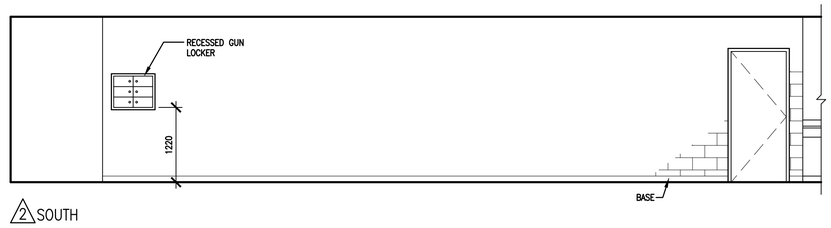


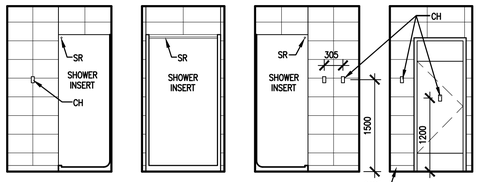
1 NORTH
2 EAST
3 SOUTH
4 WEST

2 / A2.5 ROOM 119
1:50



2 SOUTH

3 / A2.2 ROOM 117
1:50



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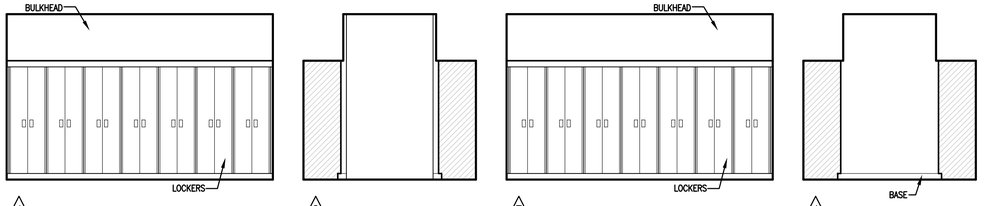
2 EAST
3 SOUTH
4 WEST

4 / A2.5 ROOM 120
1:50



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5 / A2.5 ROOM 121
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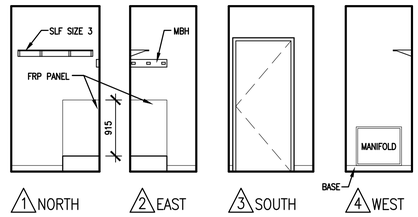

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6 / A2.5 ROOM 122
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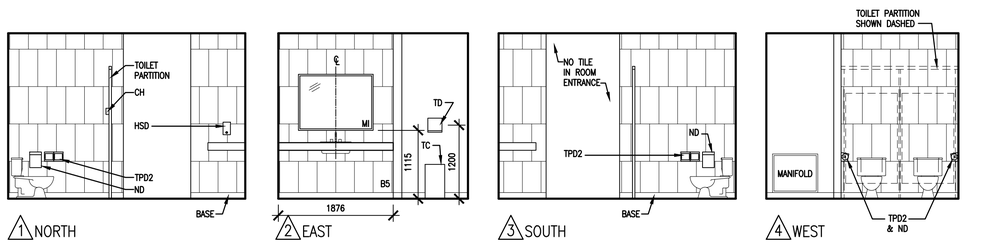
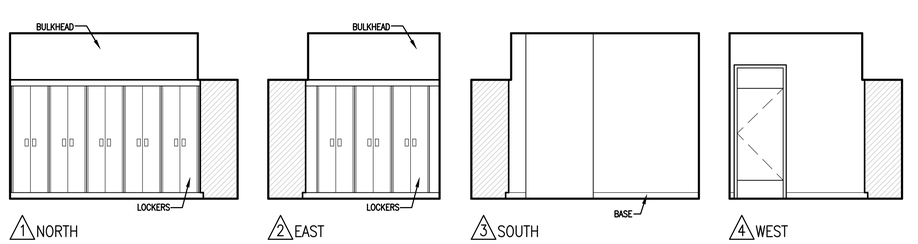


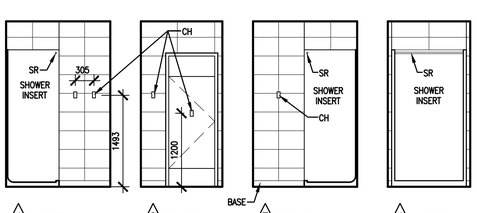
1 NORTH
2 EAST
3 SOUTH
4 WEST

7 / A2.5 ROOM 123
1:50



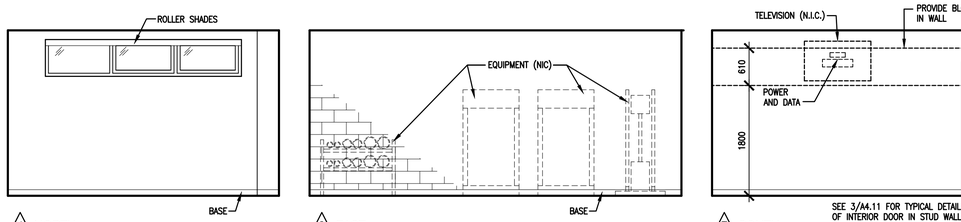
1 NORTH
2 EAST
3 SOUTH
4 WEST

8 / A2.5 ROOM 124
1:50



1 NORTH
2 EAST
3 SOUTH
4 WEST

9 / A2.5 ROOM 125
1:50



1 NORTH
2 EAST
3 SOUTH
4 WEST

10 / A2.2 ROOM 126
1:50

PWGSC – A1 – 841X594

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

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■ website: www.sepw.ca

SASKATCHEWAN ASSOCIATION OF ARCHITECTS
JUSTIN M. MESSMER
REGISTERED ARCHITECT
SASKATOON
oct. 19, 2018

DO NOT SCALE DRAWINGS

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0	ISSUED FOR TENDER	18/10/19
Revision/ Revision	Description/Description	Date/Date

Client/client

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
DE

Drawn by/Dessine par
JMM

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

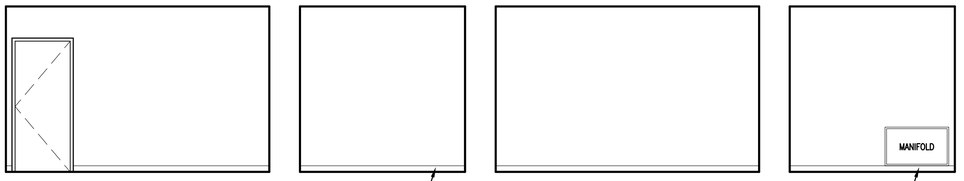
Client/client

Drawing title/Titre du dessin

INTERIOR ELEVATIONS

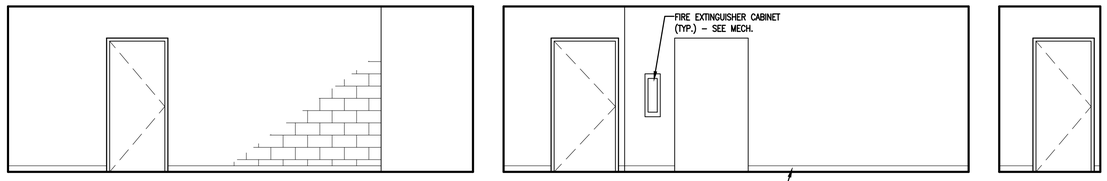
Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	A5.3	0

A000



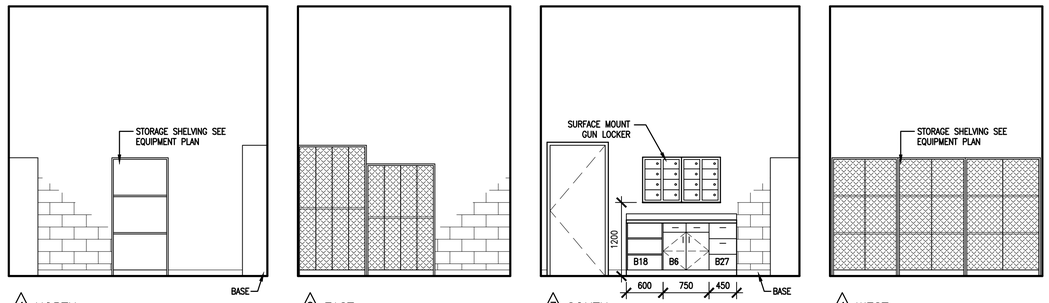
1 NORTH 2 EAST 3 SOUTH 4 WEST

1 A2.2 ROOM 127 1:50



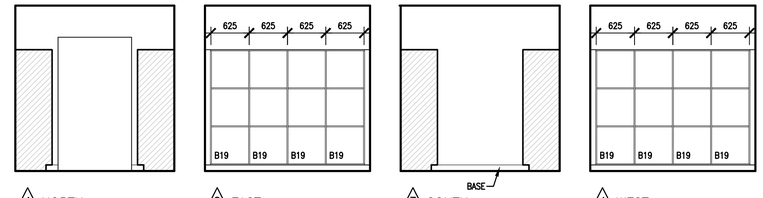
1 NORTH 2 SOUTH 3 WEST

2 A2.2 ROOM 128 1:50



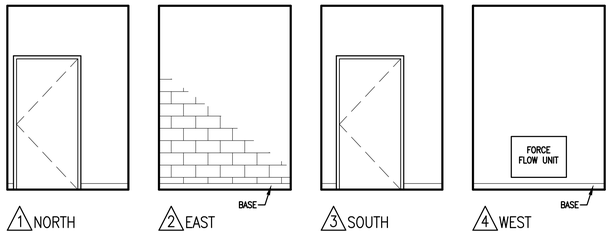
1 NORTH 2 EAST 3 SOUTH 4 WEST

3 A2.2 ROOM 129 1:50



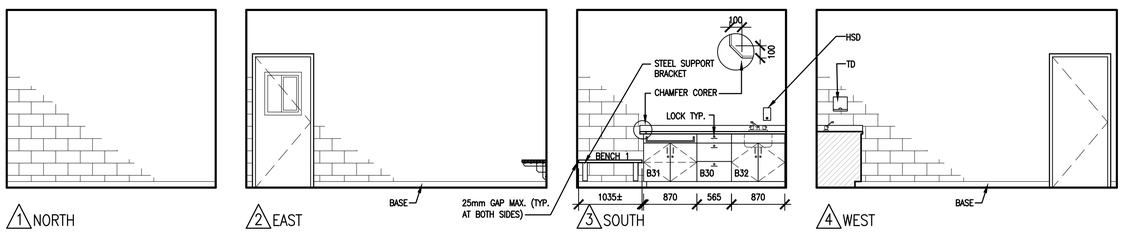
1 NORTH 2 EAST 3 SOUTH 4 WEST

4 A2.2 ROOM 130 1:50



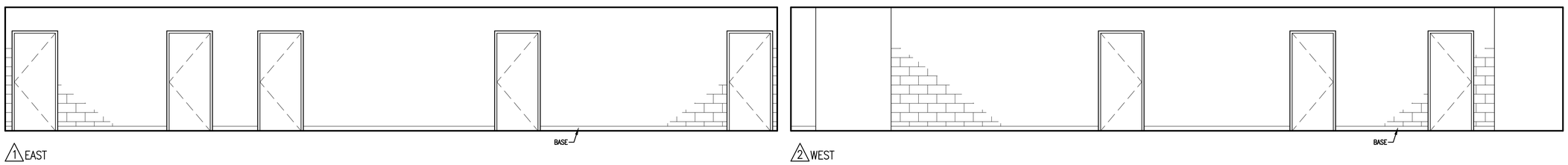
1 NORTH 2 EAST 3 SOUTH 4 WEST

5 A2.2 ROOM 131 1:50



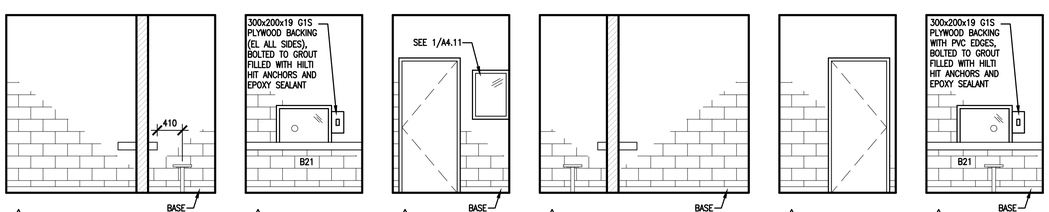
1 NORTH 2 EAST 3 SOUTH 4 WEST

6 A2.5 ROOM 134 1:50



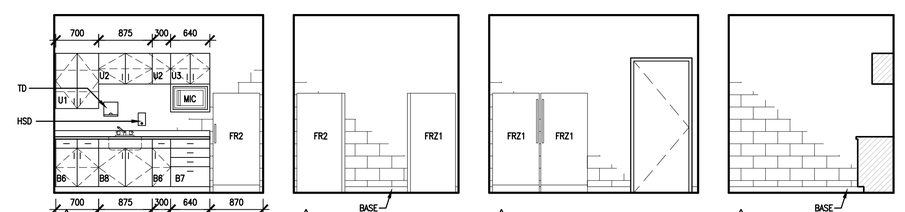
1 EAST 2 WEST

7 A2.2 ROOM 133 1:50



1 NORTH 2 EAST 3 EAST 4 SOUTH 5 WEST 6 WEST

8 A2.5 ROOM 140.1 & 140.2 1:50



1 NORTH 2 EAST 3 SOUTH 4 WEST

9 A2.5 ROOM 143 1:50

PWGSC – A1 – 841X594

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

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■ website: www.sepw.ca

SASKATCHEWAN ASSOCIATION OF ARCHITECTS
JUSTIN MICHAEL ESTABROOKE
REGISTERED ARCHITECT
SASKATOON
oct. 19, 2018

DO NOT SCALE DRAWINGS

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Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
DE

Drawn by/Dessine par
JMM

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie

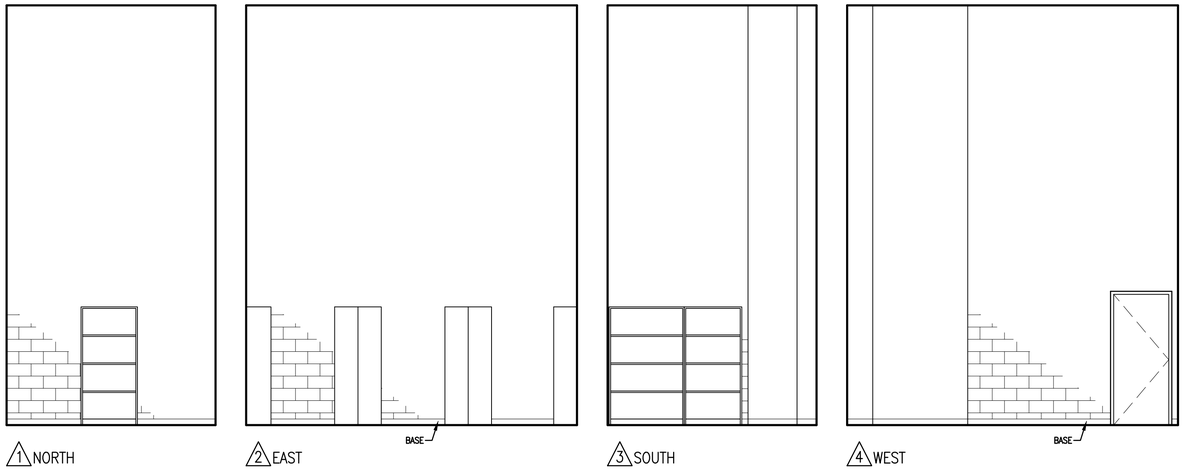
Client/client

Drawing title/Titre du dessin

INTERIOR ELEVATIONS

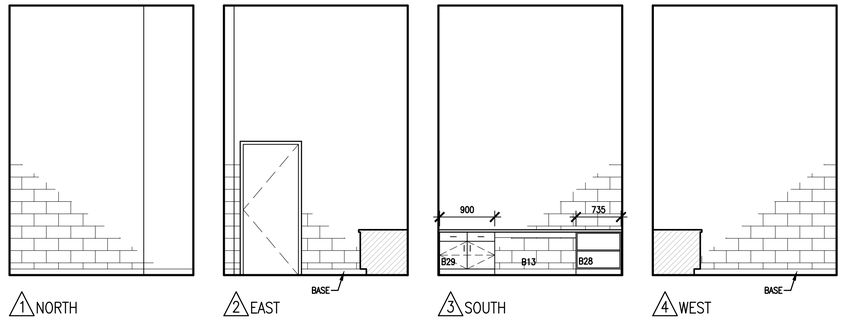
Project No./No. du projet	Sheet/ Feuille	Revision no./ Le Révision no.
R-10-2017	A5.4	0

A000



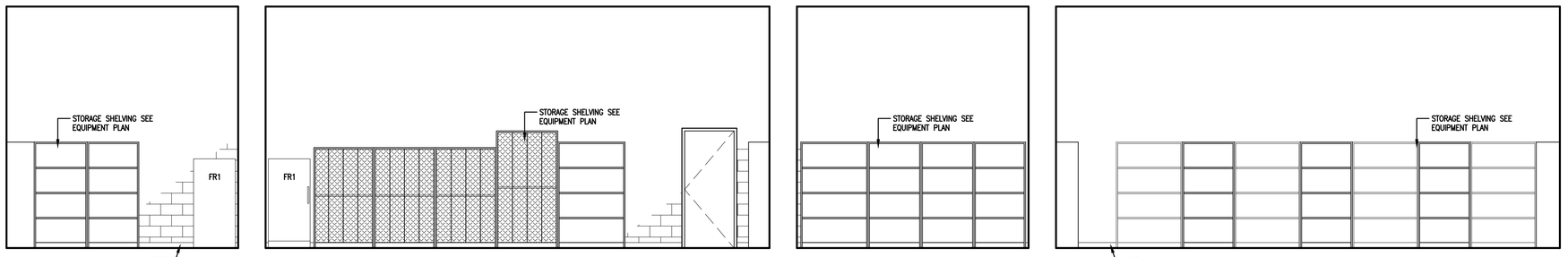
1 NORTH
2 EAST
3 SOUTH
4 WEST

1 / A2.5 ROOM 132
1:50



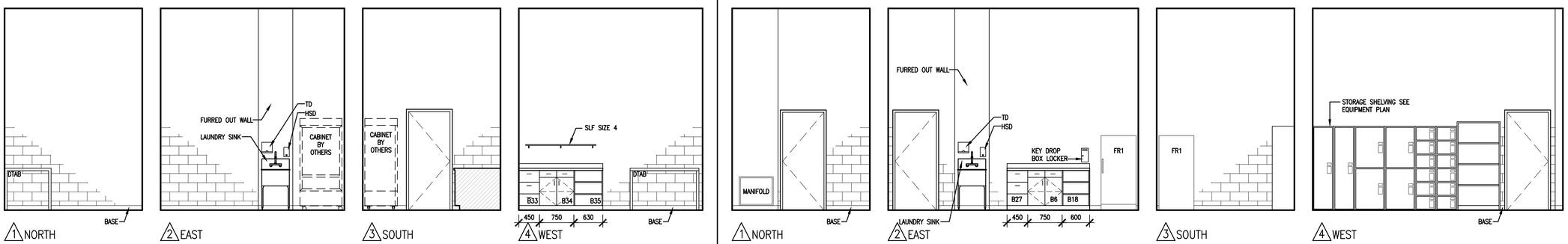
1 NORTH
2 EAST
3 SOUTH
4 WEST

2 / A2.2 ROOM 138
1:50



1 NORTH
2 EAST
3 SOUTH
4 WEST

3 / A2.2 ROOM 136
1:50



1 NORTH
2 EAST
3 SOUTH
4 WEST

4 / A2.2 ROOM 137
1:50

5 / A2.2 ROOM 135
1:50

PWGSC – A1 – 841X594

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

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SASKATCHEWAN ASSOCIATION OF ARCHITECTS
JUSTIN [illegible] ESTABROOK
REGISTERED ARCHITECT
SASKATOON
oct. 19, 2018

DO NOT SCALE DRAWINGS

Revision/ Revision	Description/Description	Date/Date
5		
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Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
DE

Drawn by/Dessine par
JMM

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

INTERIOR ELEVATIONS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	A5.5	0

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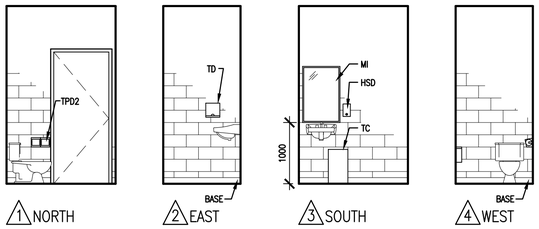
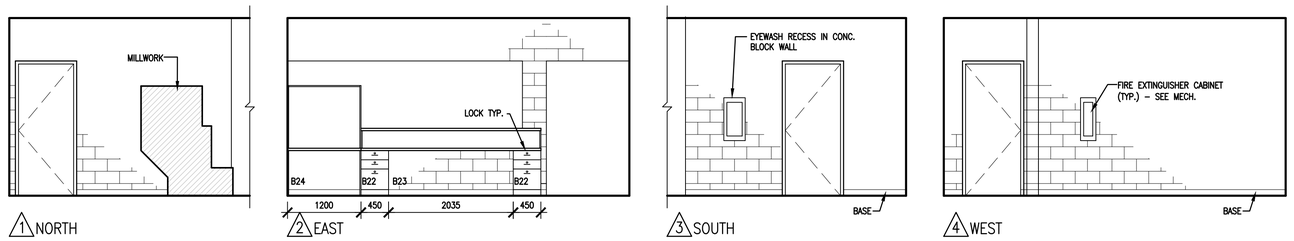


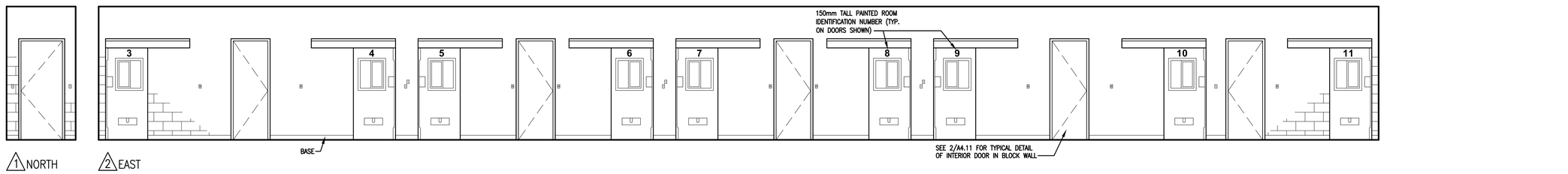
1 NORTH 2 EAST 3 SOUTH 4 WEST

1 A2.5 ROOM 142 1:50

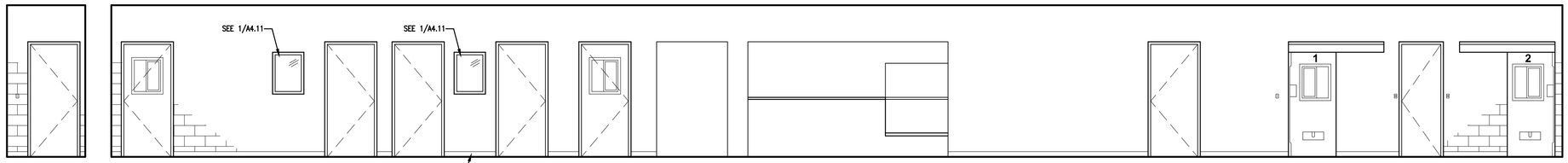


1 NORTH 2 EAST 3 SOUTH 4 WEST

2 A2.5 ROOM 141 1:50

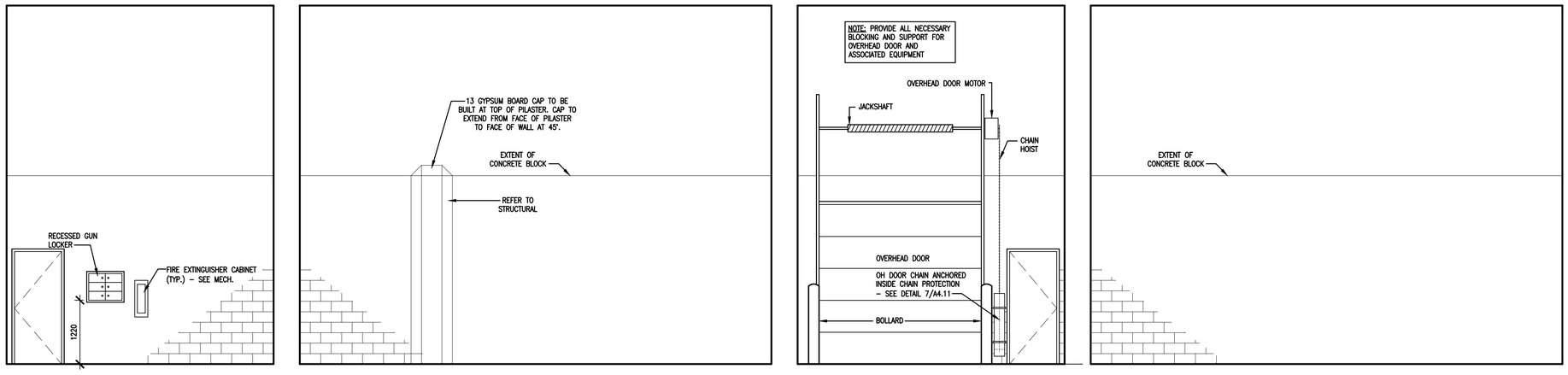


1 NORTH 2 EAST



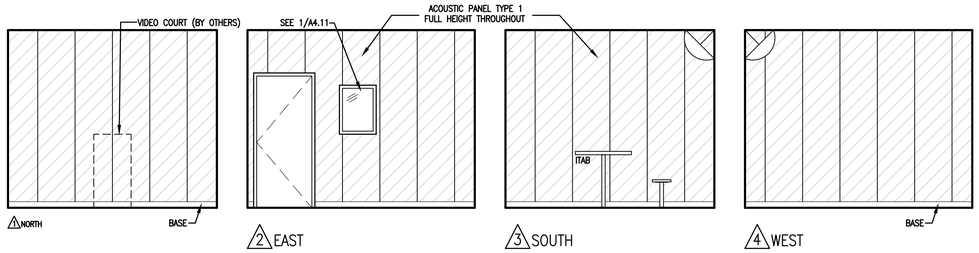
3 SOUTH 4 WEST

3 A2.5 ROOM 144 1:50



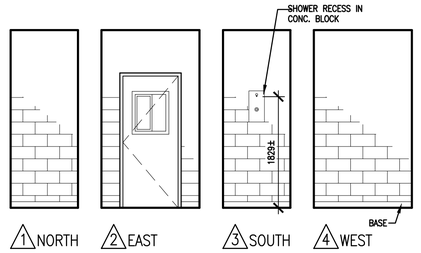
1 NORTH 2 EAST 3 SOUTH 4 WEST

4 A2.5 ROOM 145 1:50



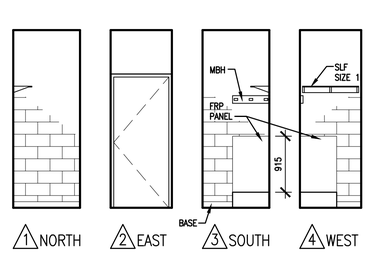
1 NORTH 2 EAST 3 SOUTH 4 WEST

5 A2.5 ROOM 148 1:50



1 NORTH 2 EAST 3 SOUTH 4 WEST

6 A2.5 ROOM 153 1:50



1 NORTH 2 EAST 3 SOUTH 4 WEST

7 A2.5 ROOM 150 1:50

PWGSC – A1 – 841X594

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

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SASKATCHEWAN ASSOCIATION OF ARCHITECTS JUSTIN DE ESTEBAN REGISTERED ARCHITECT SASKATOON Oct. 19, 2018

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Revision/ Revision	Description/Description	Date/Date
5		
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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
DE

Drawn by/Dessine par
JMM

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

INTERIOR ELEVATIONS

Project No./No. du projet	Sheet/ Feuille	Revision no./ Le Révision no.
R-10-2017	A5.6	0

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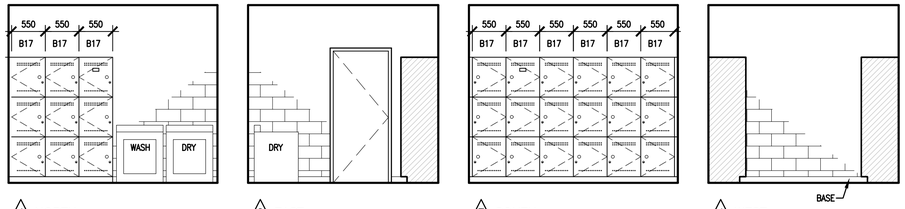
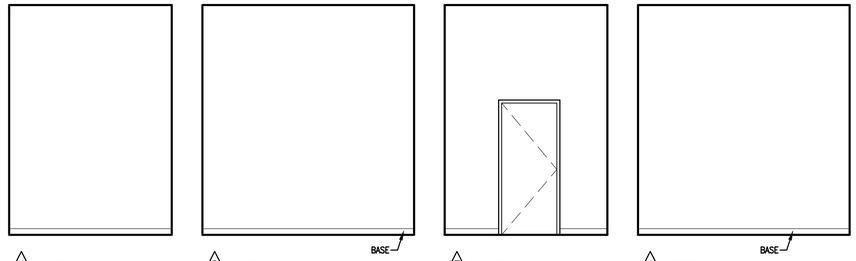


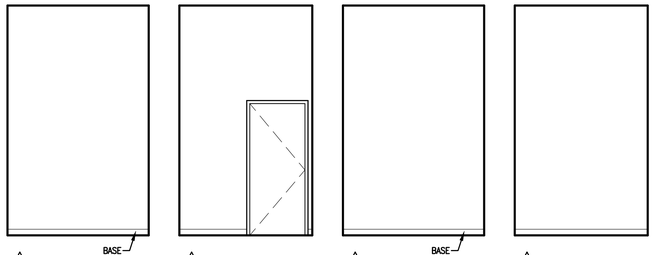
1 NORTH | 2 EAST | 3 SOUTH | 4 WEST

1 / A2.5 ROOM 160 1:50



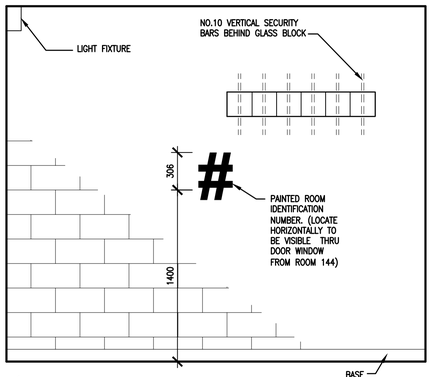
1 NORTH | 2 EAST | 3 SOUTH | 4 WEST

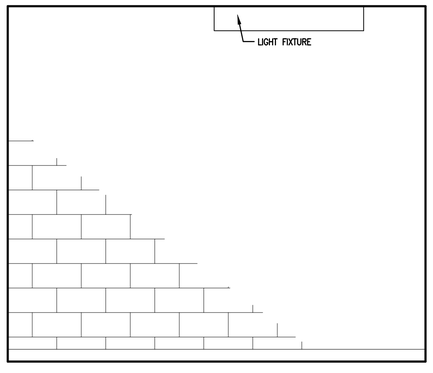
2 / A2.4 ROOM 202 1:50

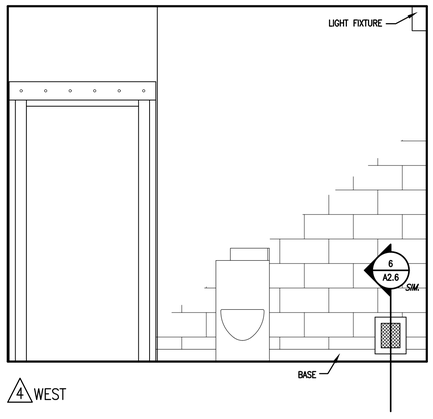


1 NORTH | 2 EAST | 3 SOUTH | 4 WEST

3 / A2.4 ROOM 203 1:50

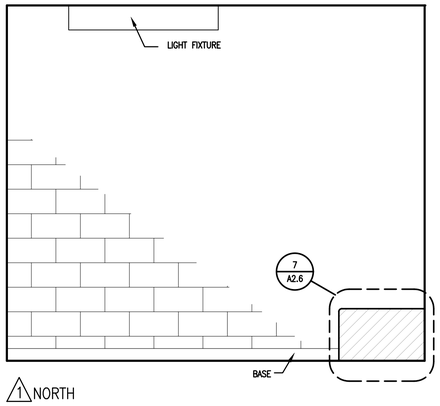


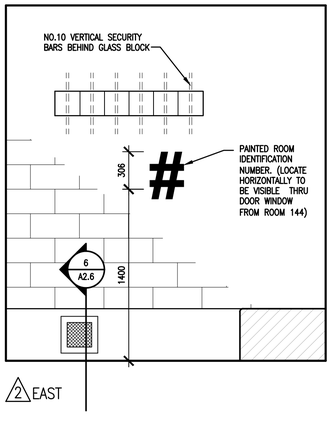


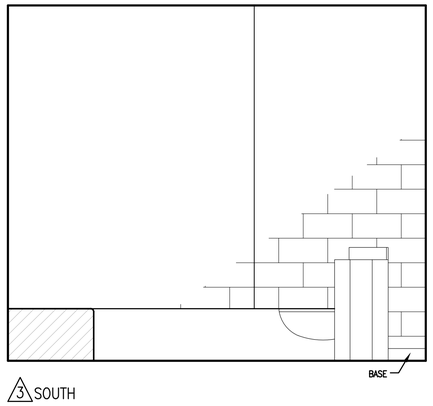


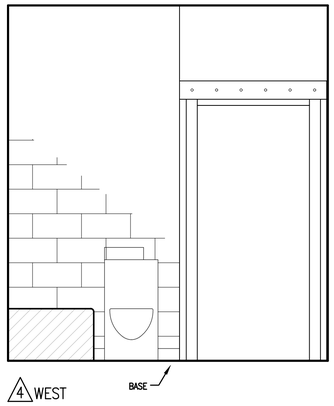
1 NORTH | 2 EAST | 3 SOUTH | 4 WEST

4 / A5.7 ROOM 146 1:25 ROOM 149 SIMILAR









1 NORTH | 2 EAST | 3 SOUTH | 4 WEST

5 / A5.7 ROOM 152 1:25 ROOMS 154, 156, 157, 159, 161, 162, 165, & 166 SIMILAR

PWGSC – A1 – 841X594

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

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JUSTIN MARK DE JONGH REGISTERED ARCHITECT SASKATOON
oct. 19, 2018

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Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

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INTERIOR ELEVATIONS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	A5.7	0

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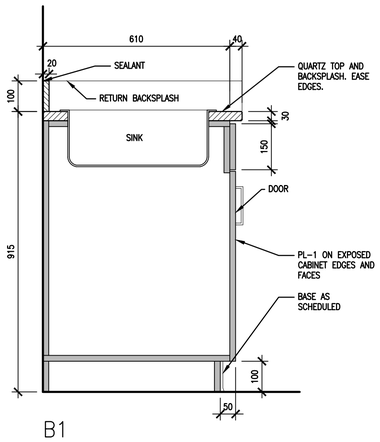

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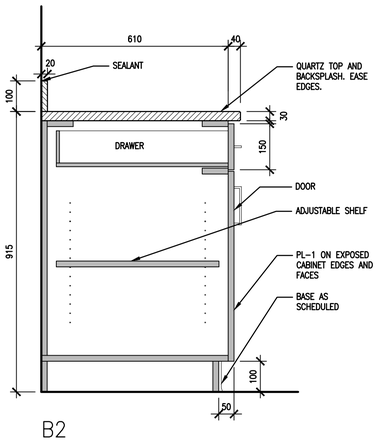

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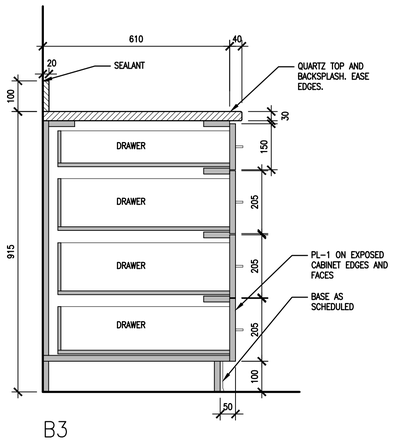

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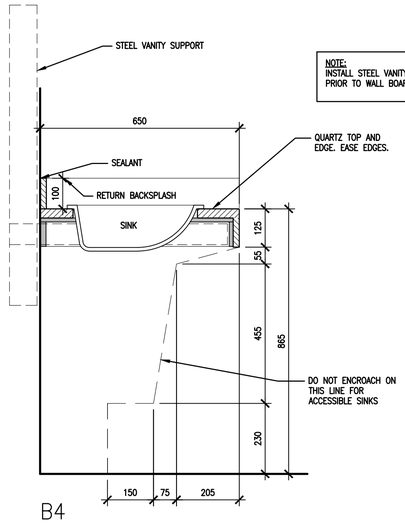
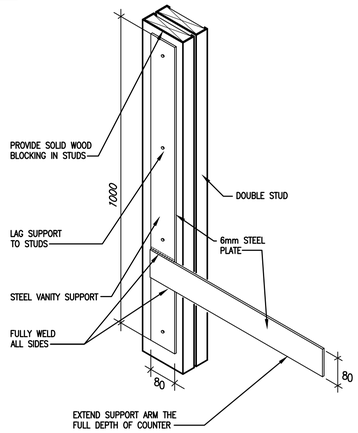
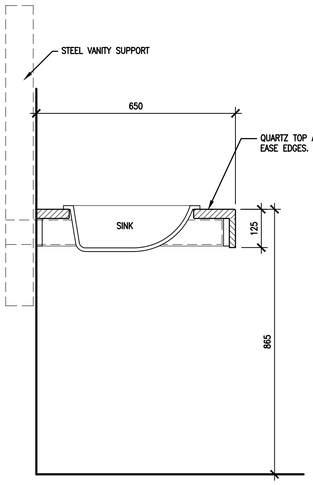


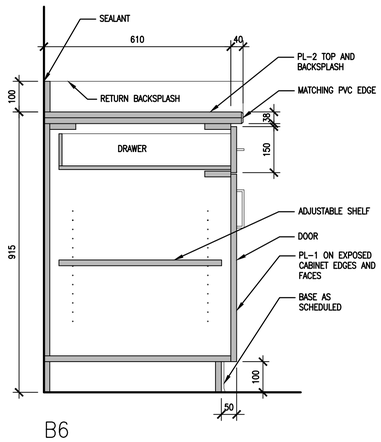
NOTE:
INSTALL STEEL VANITY SUPPORT PRIOR TO WALL BOARD

B4





B5



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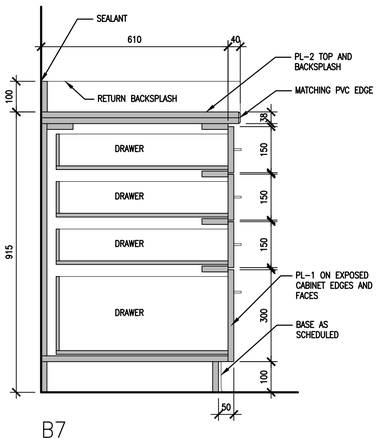

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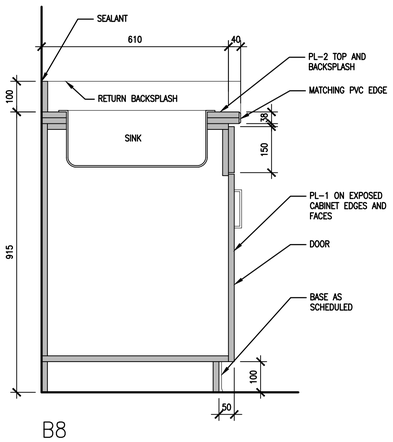

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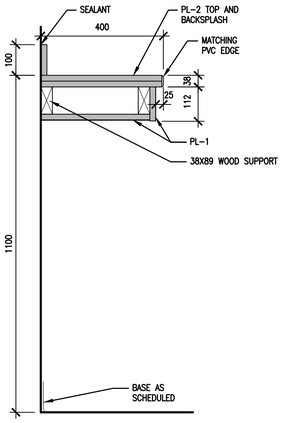

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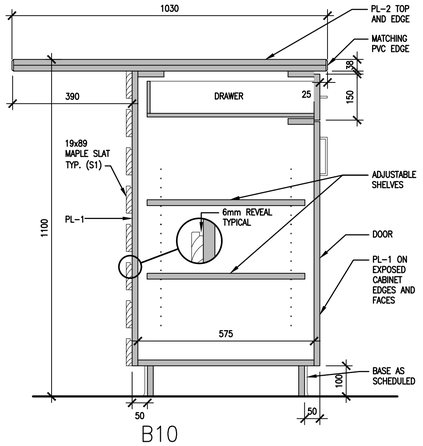

B10
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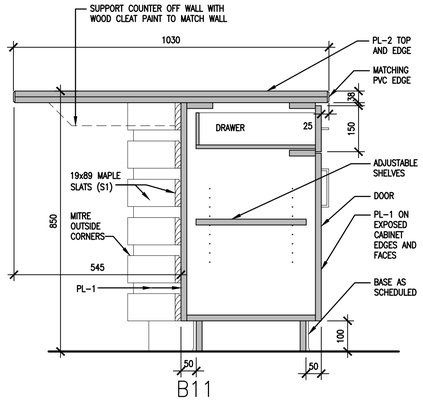

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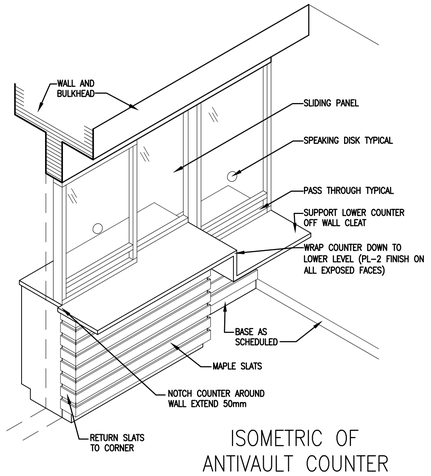

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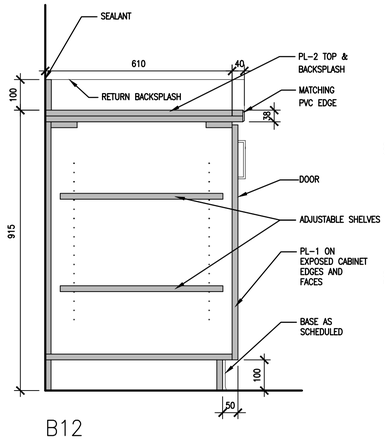

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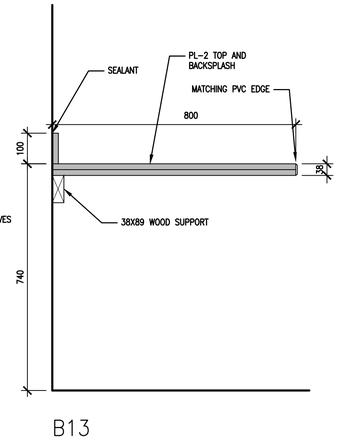

B13

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SASKATCHEWAN ASSOCIATION OF ARCHITECTS
JUSTIN MICHAEL STEVENSON
REGISTERED ARCHITECT
Oct. 19, 2018

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JMM

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R-10-2017	A6.1	0

PWGSC – A1 – 841X594

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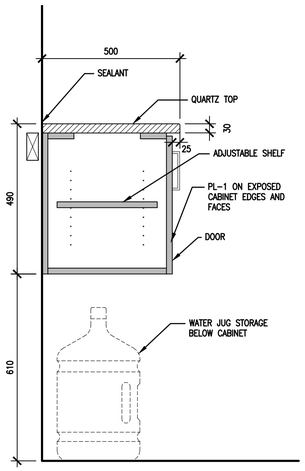

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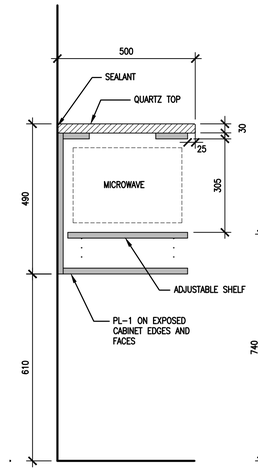

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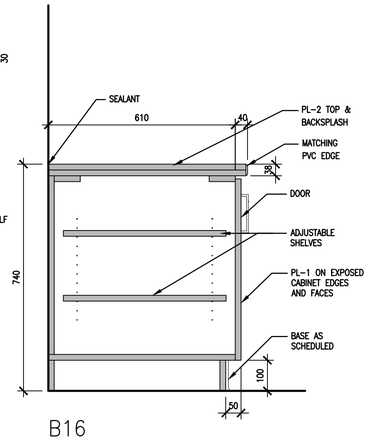

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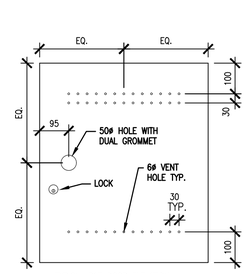
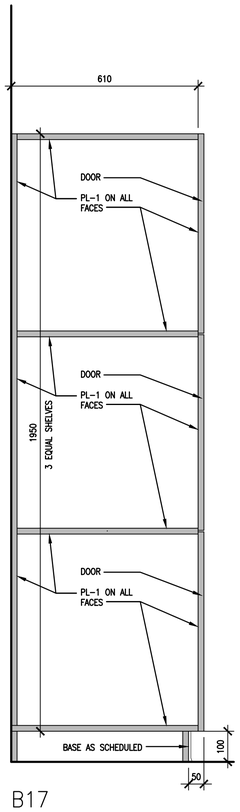


TYPICAL B17 DOOR ELEVATION



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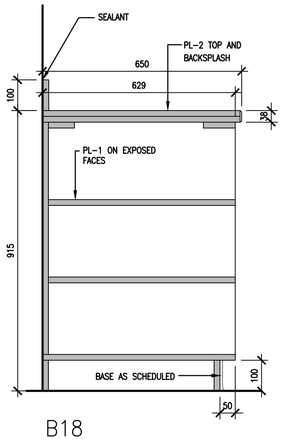

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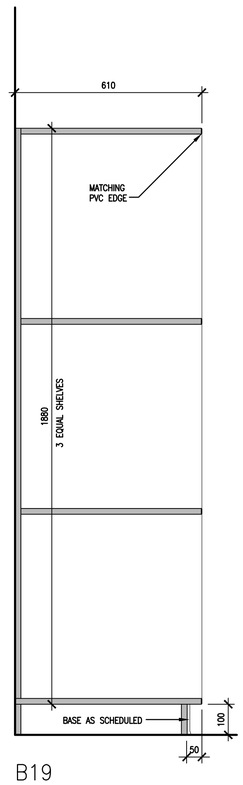

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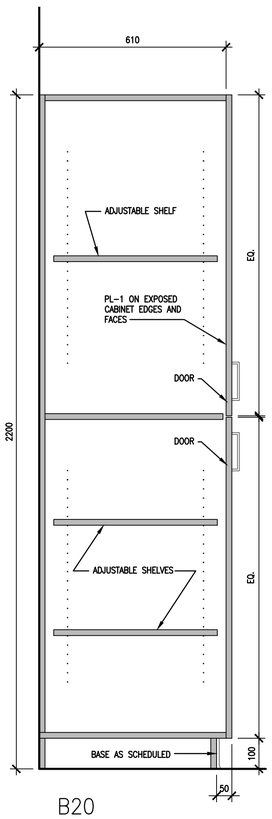

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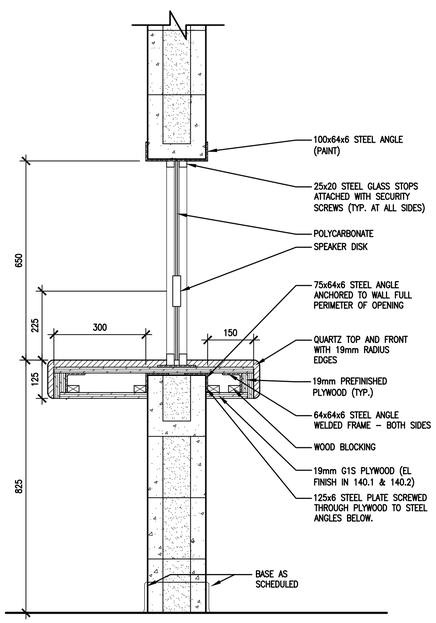

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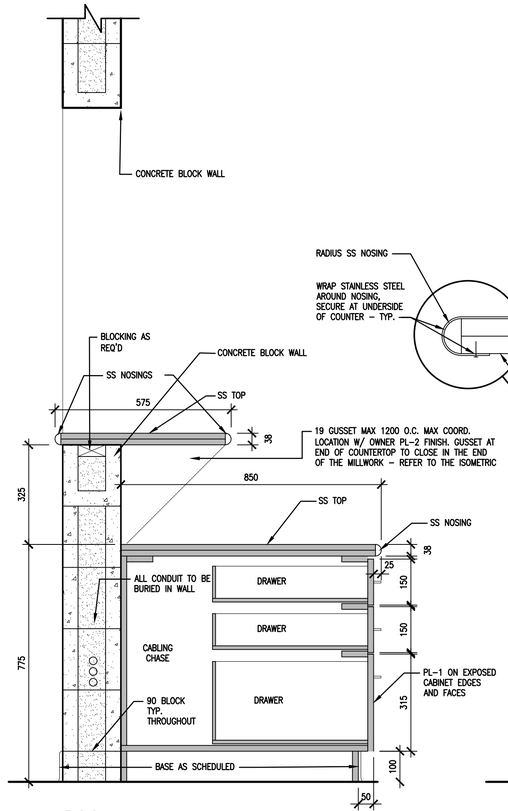

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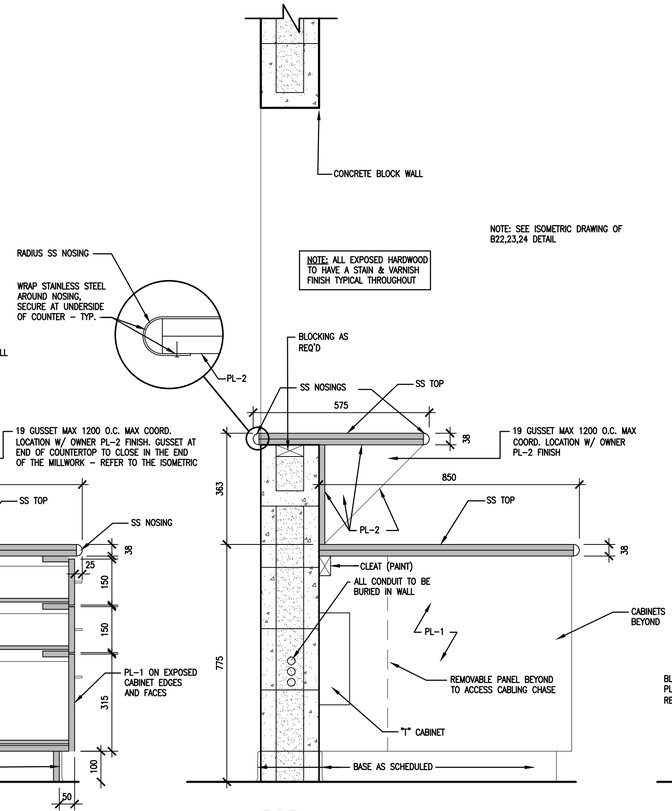

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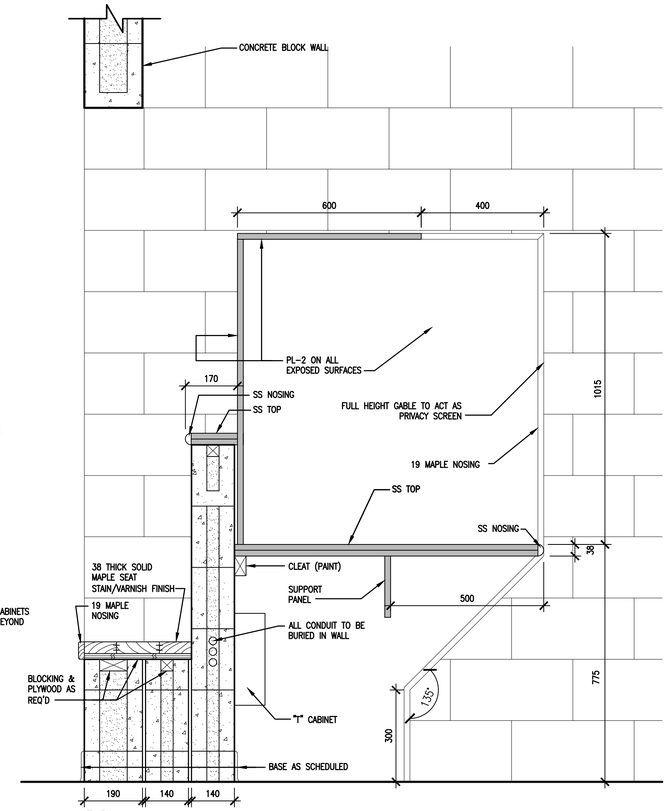

B24

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JMM

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R-10-2017	A6.2	0

PWGSC – A1 – 841X594

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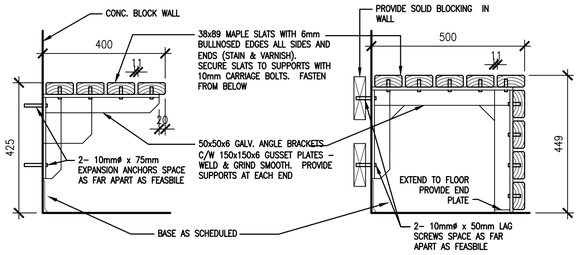
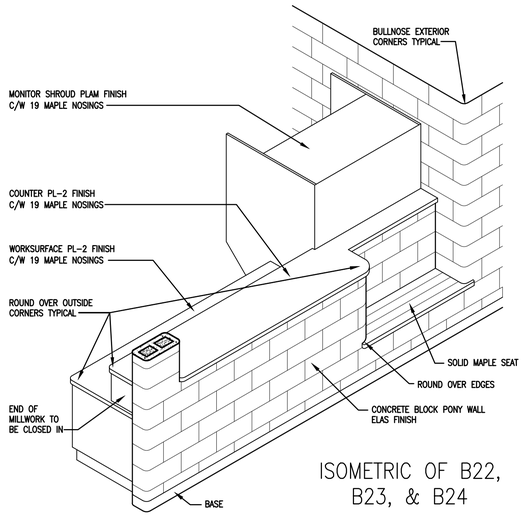


BENCH 1

BENCH 2



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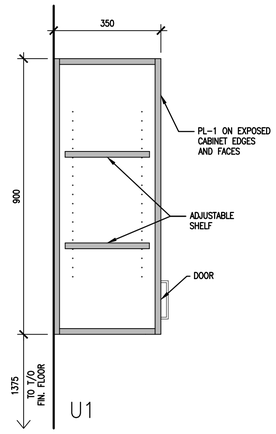

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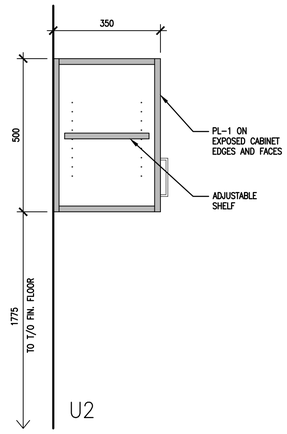

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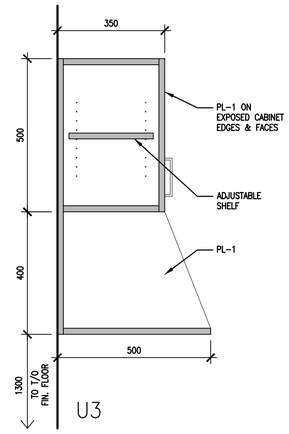

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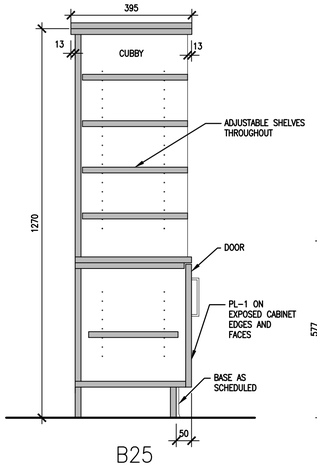

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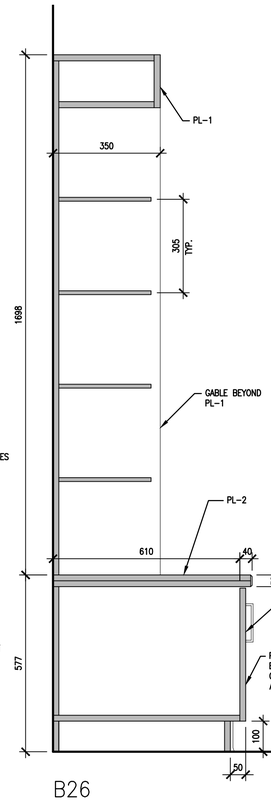

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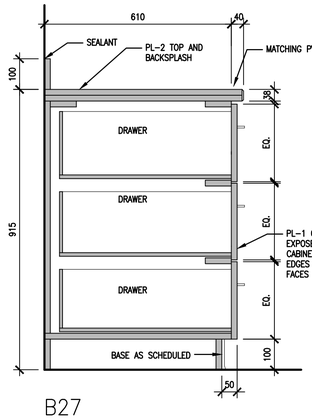

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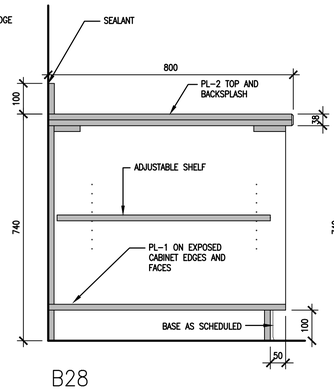

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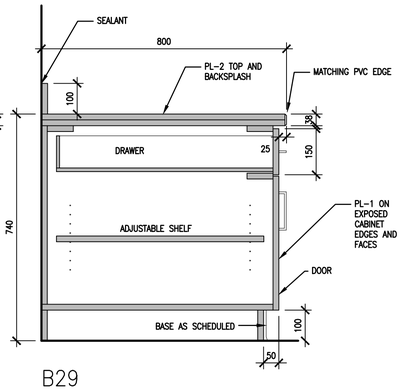

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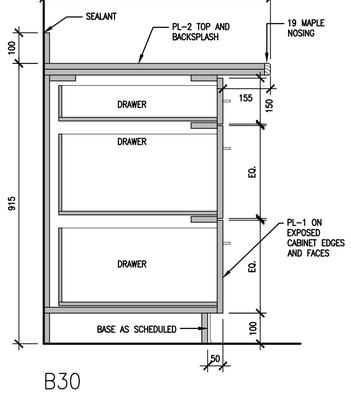

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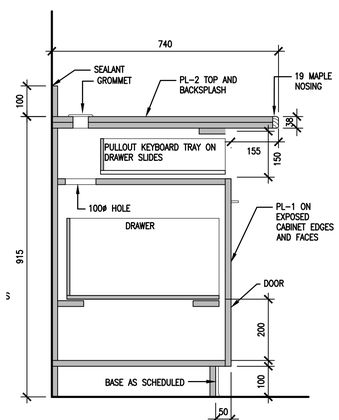

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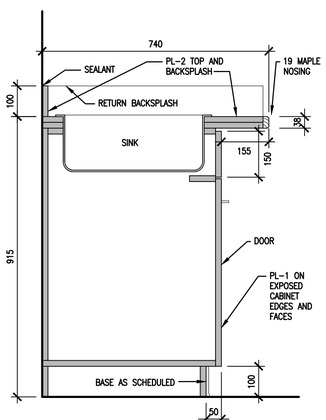

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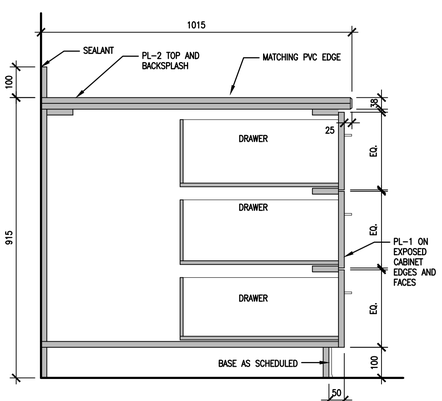

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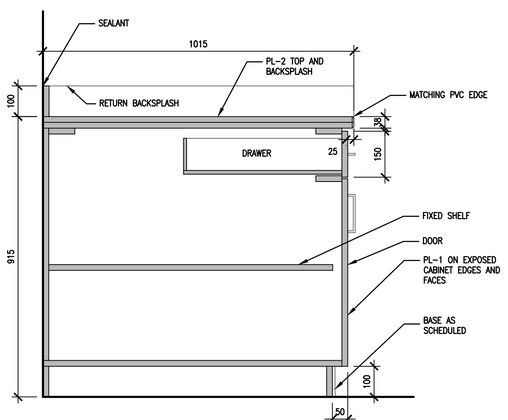

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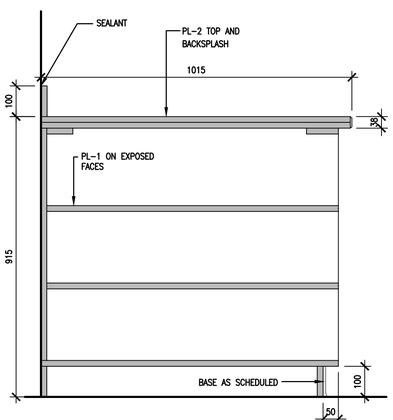

B35

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SASKATCHEWAN ASSOCIATION OF ARCHITECTS
JUSTIN M. PEDERSON
REGISTERED ARCHITECT
SASKATOON
oct. 19, 2018

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R-10-2017	A6.3	0

PWGSC – A1 – 841X594

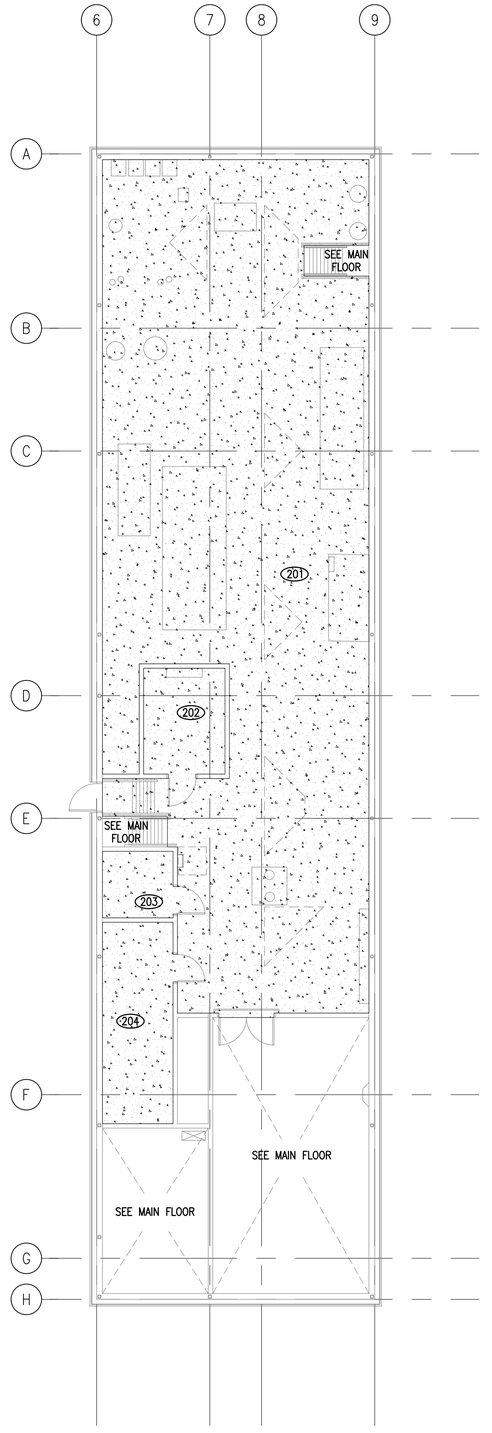
0 10 20 30 40 50 60 70 80 90 100mm

A000

LEGEND

- FLUID APPLIED FLOORING
- SEALED CONCRETE
- POLISHED CONCRETE
- CARPET TILE
- RUBBER SPORT FLOORING
- ENTRANCE FLOOR MAT
- ACCENT WALL COLOR

1 A7.1 MAIN FLOOR FINISHES PLAN
1:100



2 A7.1 SERVICE SPACE FINISHES PLAN
1:100

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REGISTERED ARCHITECT
SASKATOON
Oct. 19, 2018

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FINISHES PLAN

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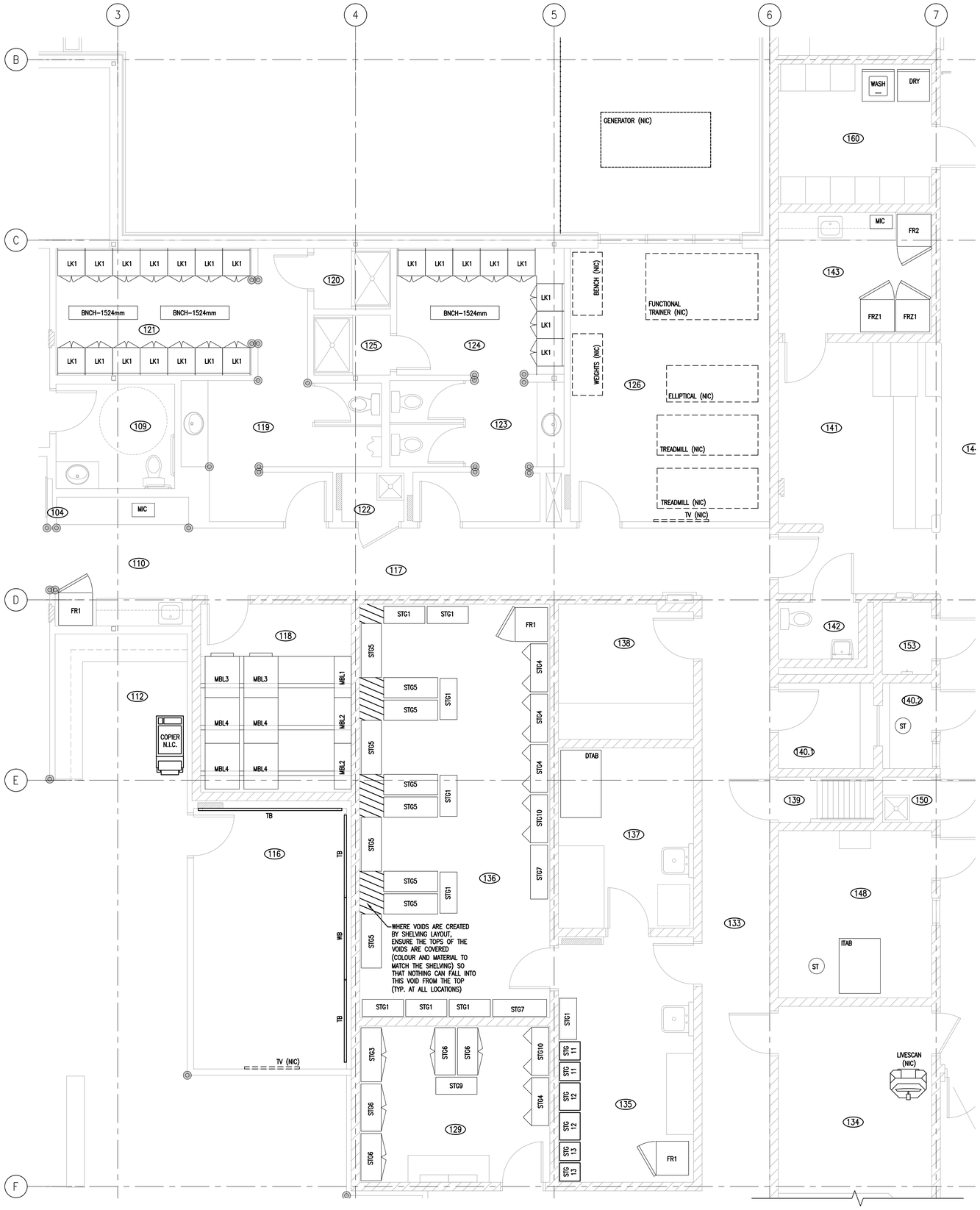
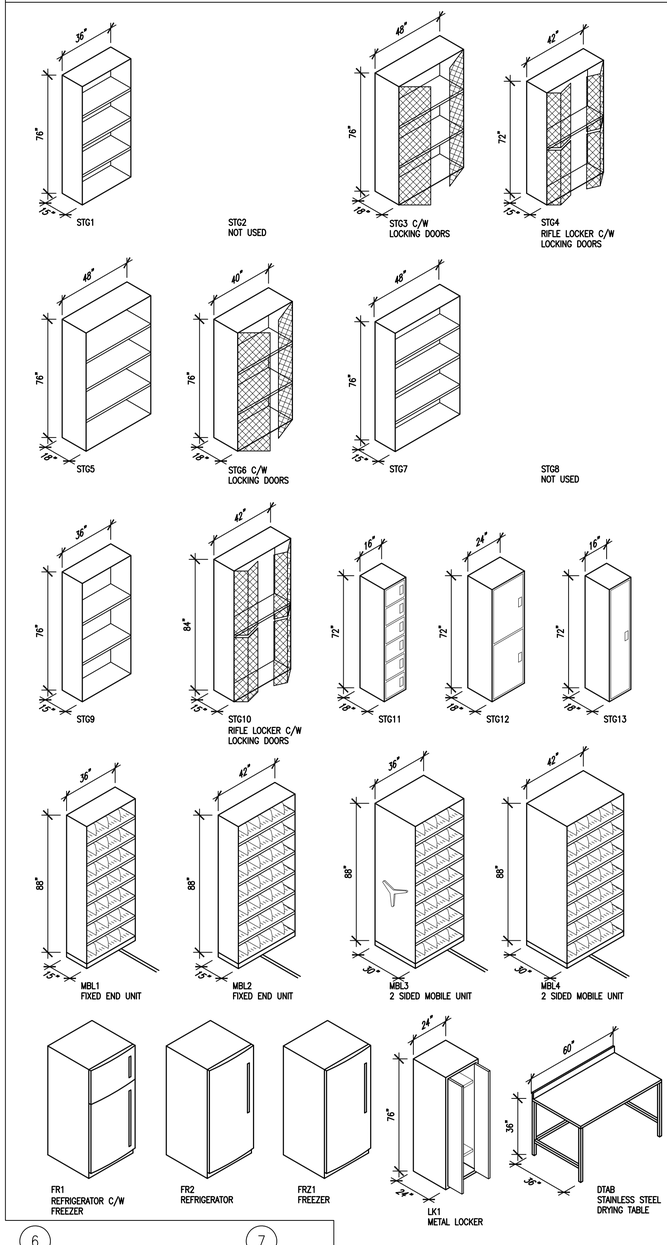
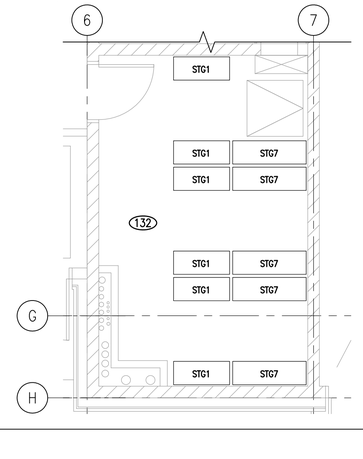


1 EQUIPMENT PLAN
A8.1 1:50

SPECIAL STORAGE SYMBOL LEGEND





PWGSC – A1 – 841X594

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JUSTIN PATTERSON
REGISTERED ARCHITECT
SASKATOON
OCT. 17, 2018

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EQUIPMENT PLAN

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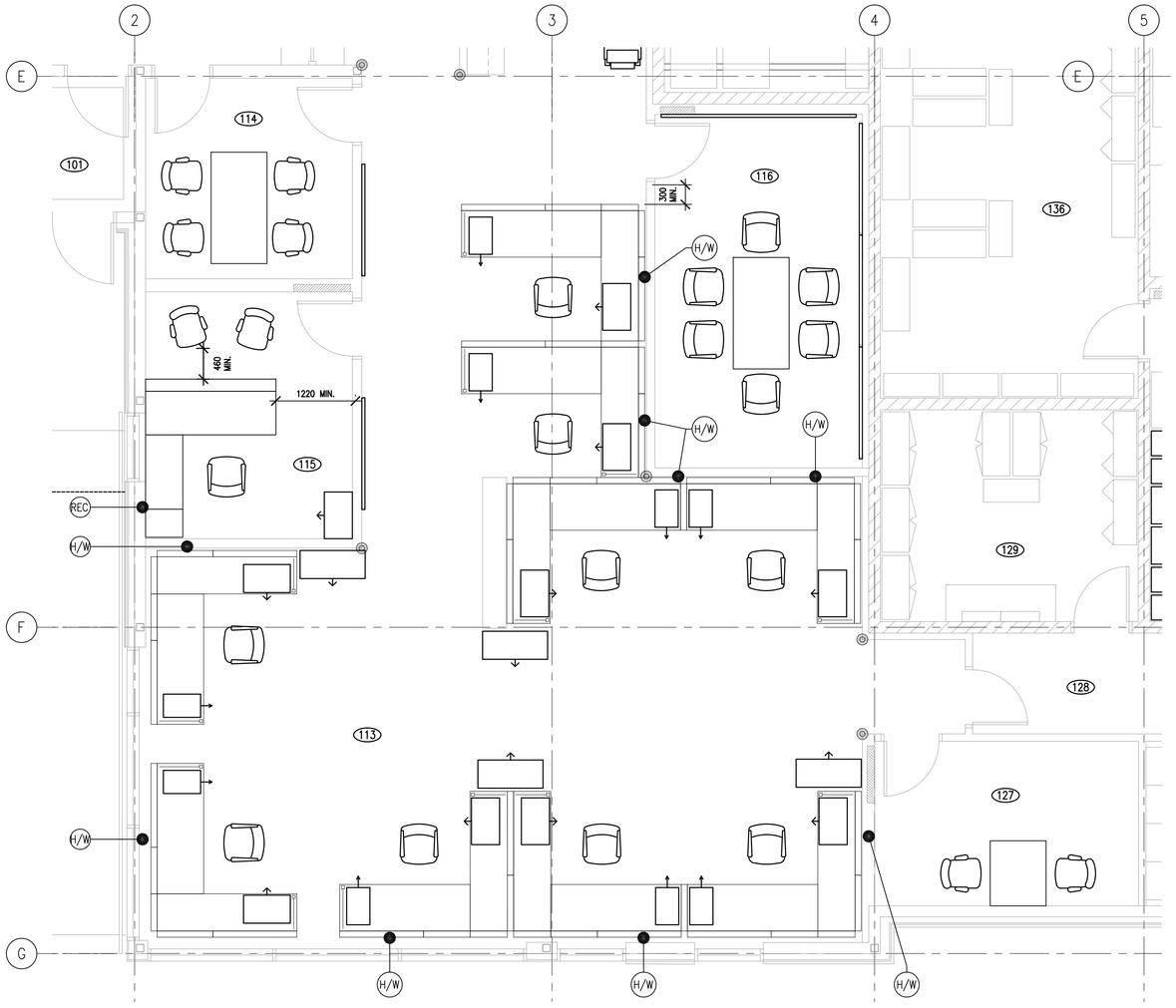
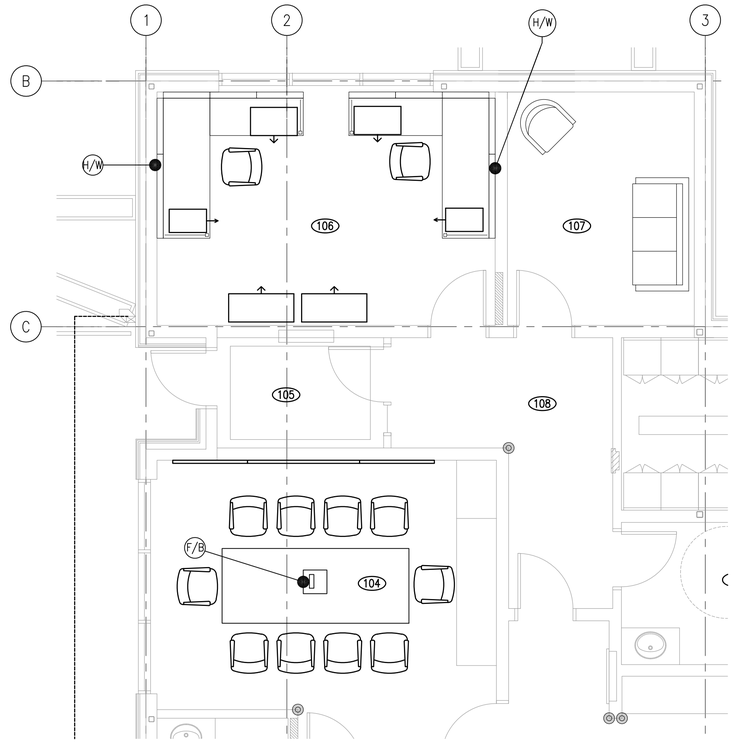
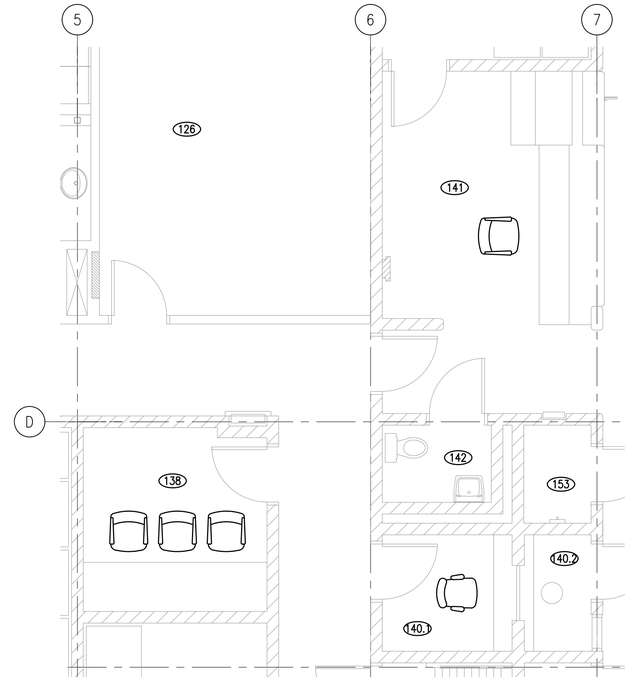


1 FURNITURE PLAN
A8.2 1:50

NOTE: ALL FURNITURE BY OTHERS





FURNITURE SYMBOL LEGEND

S1	FOUR LEG PEG BASE, PADDED SEAT, FIXED ARMS
S2	FOUR LEG PEG BASE, SOLID SEAT, FIXED ARMS
S3	5–STAR BASE, PADDED SEAT, PERFORATED BACK, FIXED ARMS
S4	5–STAR BASE, PADDED ADJUSTABLE SEAT, MESH BACK, LUMBAR SUPPORT, MULTI–WAY ADJUSTABLE ARMS, MULTI–WAY COMFORT ADJUSTMENTS
	TABLE FIXED BASE 36"x72"
	BOARDROOM TABLE FIXED BASE WITH DATA AND POWER 48"x120"
	TABLE FIXED BASE 36"x42"
CAB 1	MOBILE PEDESTAL, BOX/ BOX/ FILE CONFIGURATION, 24" D
CAB 2	MOBILE PEDESTAL, BOX/ FILE CONFIGURATION, CUSHION TOP 24" D
CAB 3	3 DRAWER HIGH LATERAL, WITH TOP, 42" W
CAB 4	4 DRAWER HIGH LATERAL 36" W
CAB 5	1 OPEN SHELF/ 1 DRAWER HIGH LATERAL, UNDER WORKSURFACE, 30" W
#### x ####	PANEL WIDTH BY HEIGHT DIMENSIONS
WS #### x ####	WORK SURFACE WIDTH BY LENGTH DIMENSIONS
	ADJUSTABLE KEYBOARD TRAY & MOUSE PAD
CPU	METAL FRAMED CPU HOLDER MOUNTED UNDERSIDE WORK SURFACE
	FREE STANDING WORK SURFACE SUPPORT
	PANEL MOUNTED WORK SURFACE SUPPORT
PRIV	DESK MOUNTED PRIVACY/ MODESTY SCREEN 42" LONG
	ACCESSORY MOUNT RAIL 48"L
	TEMPERED FRAMELESS GLASS TOPPER
REC	WALL RECEPTACLE – POWER AND DATA
H/W	JUNCTION BOX – HARDWIRE LOCATION FOR POWER AND DATA
F/B	FLOOR BOX – POWER AND DATA

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■ web/ibc www.sepw.ca

SASKATCHEWAN ASSOCIATION OF ARCHITECTS
JUSTIN PEPPERSPOON
REG. SASKATOON
OCT. 19, 2018

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4		
3		
2		
1		
0	ISSUED FOR TENDER	18/10/19
Revision/ Revision	Description/Description	Date/Date

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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

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FURNITURE PLAN (NOT IN CONTRACT)

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	A8.2	0

PWGSC – A1 – 841X594

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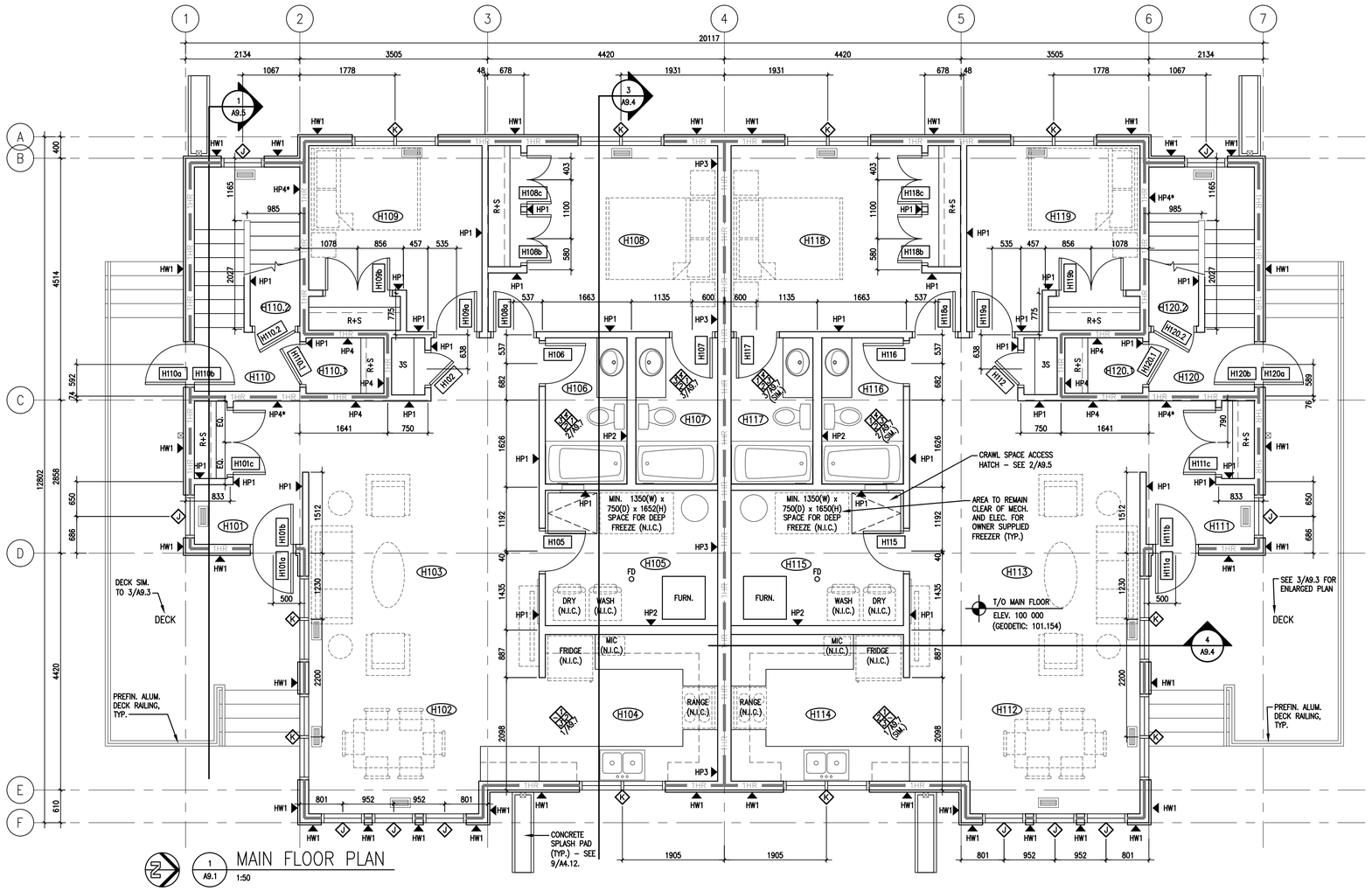
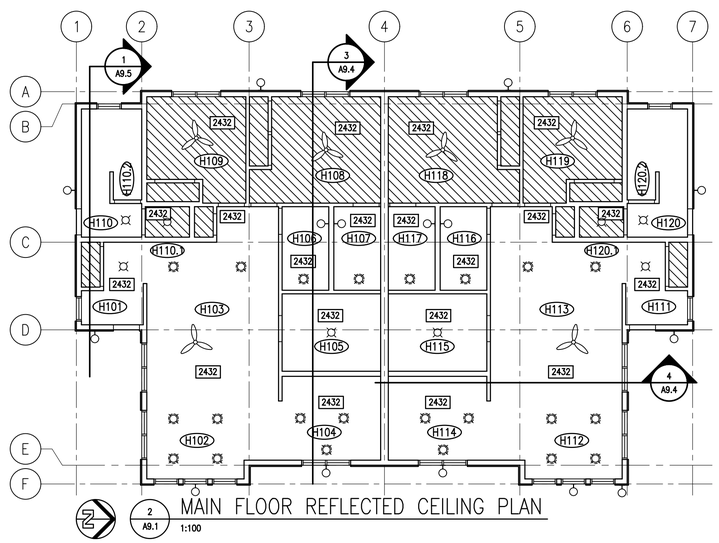
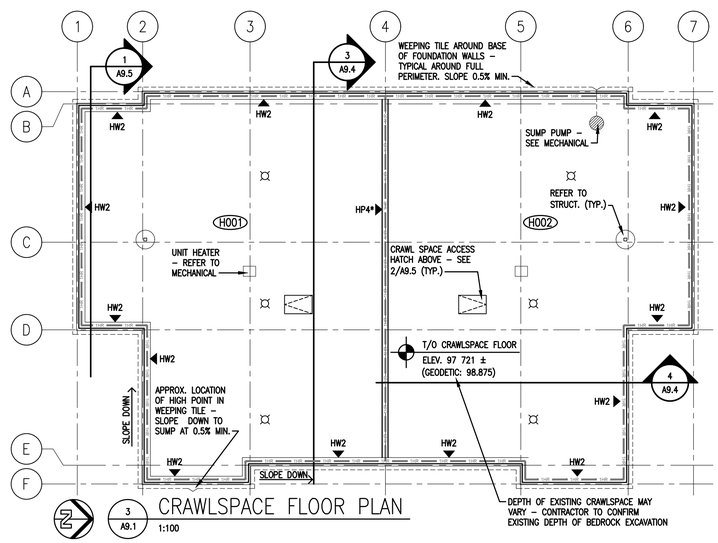


1 A9.1 MAIN FLOOR PLAN 1:50



2 A9.1 MAIN FLOOR REFLECTED CEILING PLAN 1:100



3 A9.1 CRAWLSPACE FLOOR PLAN 1:100

HOUSING ROOF SCHEDULE

HR1

FINISH	PREFINISHED METAL ROOFING		
	ROOF UNDERLAYMENT MEMBRANE		
	13mm PLYWOOD SHEATHING c/w METAL H-CLIPS		
STRU.	WOOD TRUSSES - REFER TO STRUCTURAL		
INSUL.	LOOSE FILL INSULATION (RSI 10.4)		
	POLYETHYLENE VAPOUR BARRIER		
	16 TYPE X GYPSUM BOARD		
	16 TYPE X GYPSUM BOARD		
FINISH	FINISH AS SCHEDULED		
FRR	1 HOUR	STC	-

HOUSING FLOOR SCHEDULE

HF1 (SIM. TO NBC ASSEMBLY F28c)

FINISH	FINISH AS SCHEDULED		
	16 PLYWOOD SUBFLOOR		
STRU.	WOOD JOISTS - REFER TO STRUCTURAL		
	MIN. 150mm MINERAL FIBRE INSULATION		
	RESILIENT CHANNELS @ 400mm O.C.		
	16 TYPE X GYPSUM BOARD		
	16 TYPE X GYPSUM BOARD		
FINISH	FINISH AS SCHEDULED		
FRR	1 HOUR	STC	54

HF2

FINISH	FINISH AS SCHEDULED		
	16 PLYWOOD SUBFLOOR		
STRU.	WOOD JOISTS / FLOOR TRUSSES - REFER TO STRUCT.		
FRR	-	STC	-

HF3

FINISH	CRAWLSPACE VAPOUR BARRIER		
	MIN. 50mm SAND COVER		
	200mm TYPE 8 GRANULAR, COMPACTED TO 96% PROCTOR		
	COMPACTED TYPE 8 GRANULAR TO LEVEL BEDROCK		
STRU.	EXISTING BEDROCK		
FRR	-	STC	-

HF4

FINISH	20x140 COMPOSITE DECK BOARDS		REFER TO 3/A9.3 FOR PLAN AND DETAILS
STRU.	38x235 PT WD JOISTS @ 400 o.c.		
FRR	-	STC	-

HOUSING EXTERIOR WALL SCHEDULE

HW1

FINISH	CEMENTITIOUS SIDING		
	19x89 PT WOOD STRAPPING		
	32 MINERAL FIBRE BOARD INSULATION		
	HOME WRAP AIR AND MOISTURE BARRIER		
	11 OSB SHEATHING		
STRU.	38 x140mm WOOD STUDS @ 400mm O.C.		
INSUL.	BATT INSUL TO FILL CAVITY (RSI 3.87)		
	POLYETHYLENE VAPOUR BARRIER		
	16 TYPE X GYPSUM BOARD		
FINISH	FINISH AS SCHEDULED		
FRR	1 HOUR	STC	-

HW2

FINISH	75 CONCRETE FACED RIGID INSULATION (RSI 2.64)		
	DRAINAGE MAT		
	MEMBRANE WATERPROOFING		
STRU.	CONCRETE FOUNDATION WALL - REFER TO STRUCTURAL		
FINISH	VAPOUR RETARDER		
FRR	-	STC	-

HOUSING PARTITION SCHEDULE

GENERAL NOTES:
-PROVIDE SOLID WOOD BLOCKING IN WALLS AND PARTITIONS FOR THE ATTACHMENT OF MILLWORK AND EQUIPMENT. SEE INTERIOR ELEVATIONS AND PLANS.

HP1

FINISH	FINISH AS SCHEDULED		
	13 GYPSUM BOARD		
STRUC	38 x 89mm WOOD STUDS @ 400mm O.C.		
	13 GYPSUM BOARD		
FINISH	FINISH AS SCHEDULED		
FRR	-	STC	-

NOTE: TYPICAL UNLESS NOTED OTHERWISE.

HP2

FINISH	FINISH AS SCHEDULED		
	13 GYPSUM BOARD		
STRUC	38 x 140mm WOOD STUDS @ 400mm O.C.		
	13 GYPSUM BOARD		
FINISH	FINISH AS SCHEDULED		
FRR	-	STC	-

HP3 (SIM. TO NBC ASSEMBLY W13a)

FINISH	FINISH AS SCHEDULED		
	16 TYPE 'X' GYPSUM BOARD		
STRUC	38 x 89mm WOOD STUDS @ 400mm O.C.		
	MINERAL FIBRE INSULATION TO FILL STUD SPACE		
	25mm SPACE		
STRUC	38 x 89mm WOOD STUDS @ 400mm O.C.		
	MINERAL FIBRE INSULATION TO FILL STUD SPACE		
	16 TYPE 'X' GYPSUM BOARD		
FINISH	FINISH AS SCHEDULED		
FRR	1 HOUR	STC	57

HP4 (SIM. TO NBC ASSEMBLY W3a)

FINISH	FINISH AS SCHEDULED		
	16 TYPE 'X' GYPSUM BOARD		
STRUC	38 x 89mm WOOD STUDS @ 400mm O.C.		
	MINERAL FIBRE INSULATION TO FILL CAVITY		
	RESILIENT CHANNELS @ 600mm O.C.v.		
	16 TYPE 'X' GYPSUM BOARD		
FINISH	FINISH AS SCHEDULED		
FRR	1 HOUR	STC	45

NOTE: * DENOTES SAME WALL ASSEMBLY BUT WITH 38x140 STUDS

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JUSTIN ENGLOT
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NEW POLICE BUILDING

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JMM

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HOUSING:
MAIN FLOOR PLAN
MAIN FLOOR CEILING PLAN
CRAWLSPACE PLAN
SCHEDULES

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R-10-2017	A9.1	0

PWGSC – A1 – 841X594

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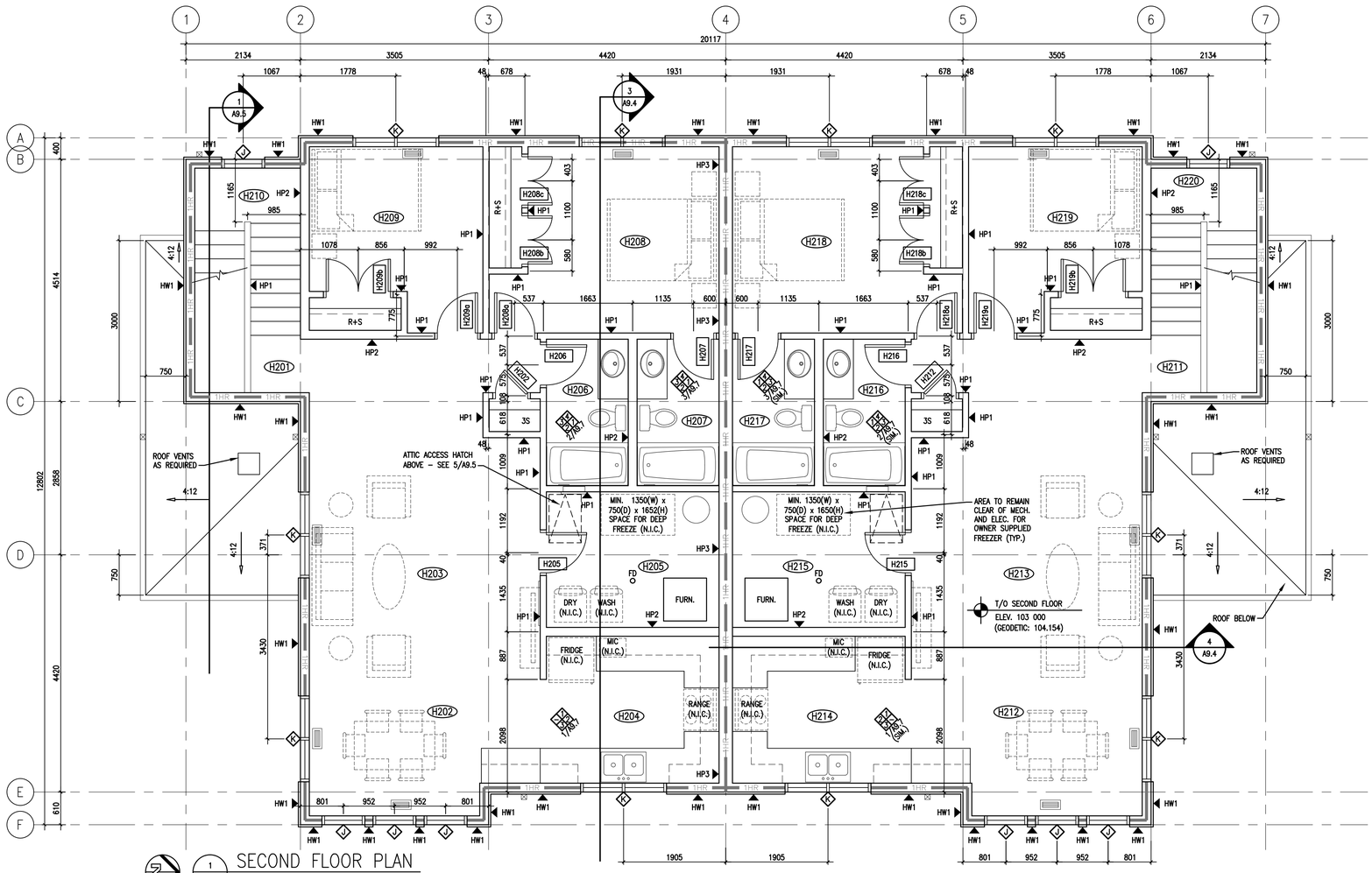
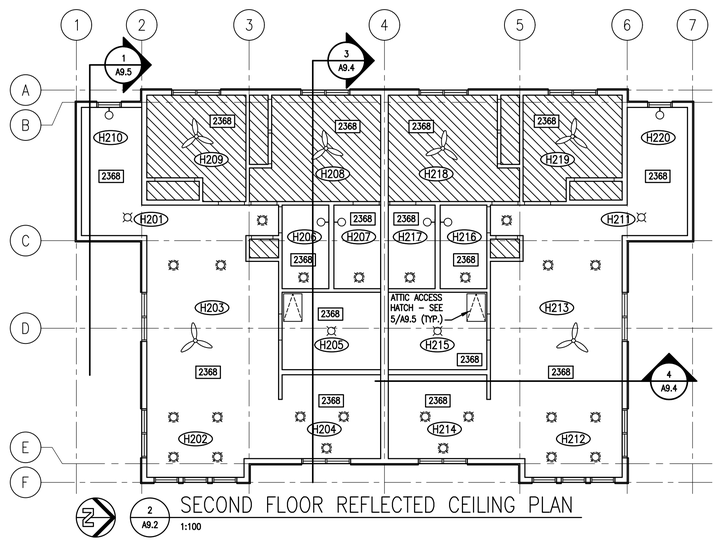
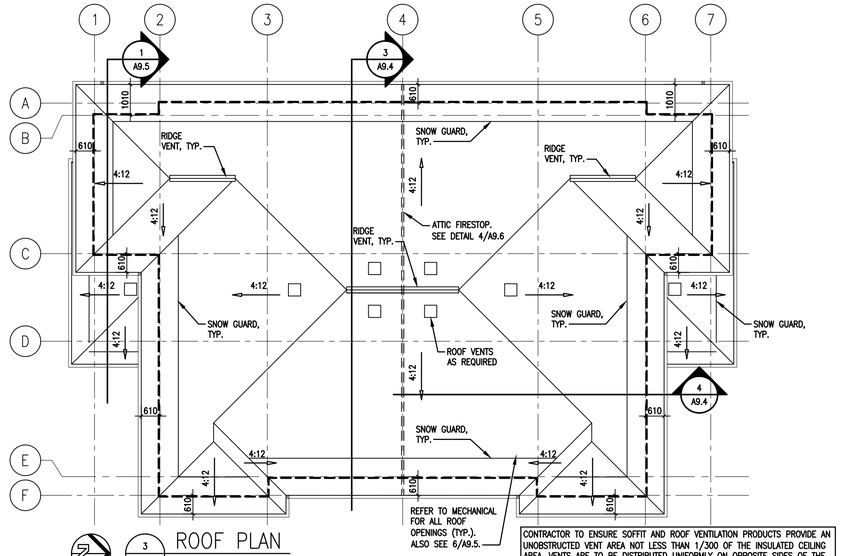


1 A9.2 SECOND FLOOR PLAN
1:50



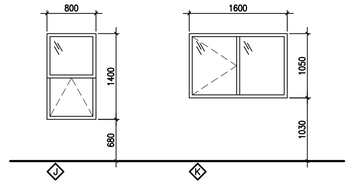
2 A9.2 SECOND FLOOR REFLECTED CEILING PLAN
1:100



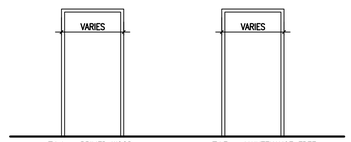
3 A9.2 ROOF PLAN
1:100

CONTRACTOR TO ENSURE SOFFIT AND ROOF VENTILATION PRODUCTS PROVIDE AN UNOBSTRUCTED VENT AREA NOT LESS THAN 1/300 OF THE INSULATED CEILING AREA. VENTS ARE TO BE DISTRIBUTED UNIFORMLY ON OPPOSITE SIDES OF THE BUILDING WITH NOT LESS THAN 25% OF THE REQUIRED OPENINGS LOCATED AT THE TOP AND 25% AT THE BOTTOM OF THE SPACE. VENTS SHALL COMPLY WITH CAN3-A93-M, "NATURAL AIRFLOW VENTILATORS FOR BUILDINGS."

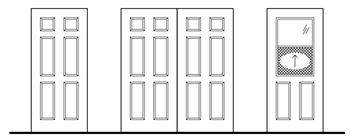
WINDOW SCHEDULE



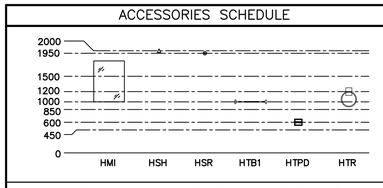
FRAME SCHEDULE



DOOR SCHEDULE



ACCESSORIES SCHEDULE



HMI	MIRROR	HTB1	TOWEL BAR – 600 LONG	* HEIGHTS
HSH	SHOWER HEAD	HTPD	TOILET PAPER DISP.	ARE TYP.
HSR	SHOWER ROD & CURTAIN	HTR	TOWEL RING	U.N.O.

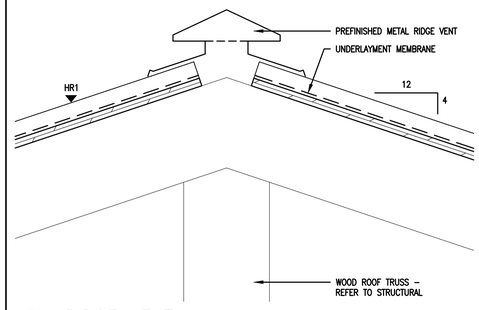
CEILING TYPES:

KNOCK-DOWN TEXTURED PAINTED CEILING

PAINTED CEILING

LEGEND:

- INTERIOR POT LIGHT
- INTERIOR SURFACE MOUNTED FIXTURE
- WALL MOUNTED FIXTURE
- CEILING FAN
- CEILING MOUNTED SUPPLY GRILLE
- SIDE MOUNTED SUPPLY GRILLE
- RETURN GRILLE
- CEILING MOUNTED FAN
- F.F. FORCE FLOW
- WALL MOUNTED FORCE FLOW
- DRYER VENT HOODED WALL CAP



4 A9.4 RIDGE VENT
1:5

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JUSTIN MICHAEL SCHMIDT
REGISTERED ARCHITECT
SASKATOON
oct. 19, 2018

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DE

Drawn by/Dessine par
JMM

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Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie

Client/client

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HOUSING:
SECOND FLOOR PLAN
SECOND FLOOR CEILING PLAN
ROOF PLAN
SCHEDULES

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R-10-2017	A9.2	0

PWGSC – A1 – 841X594

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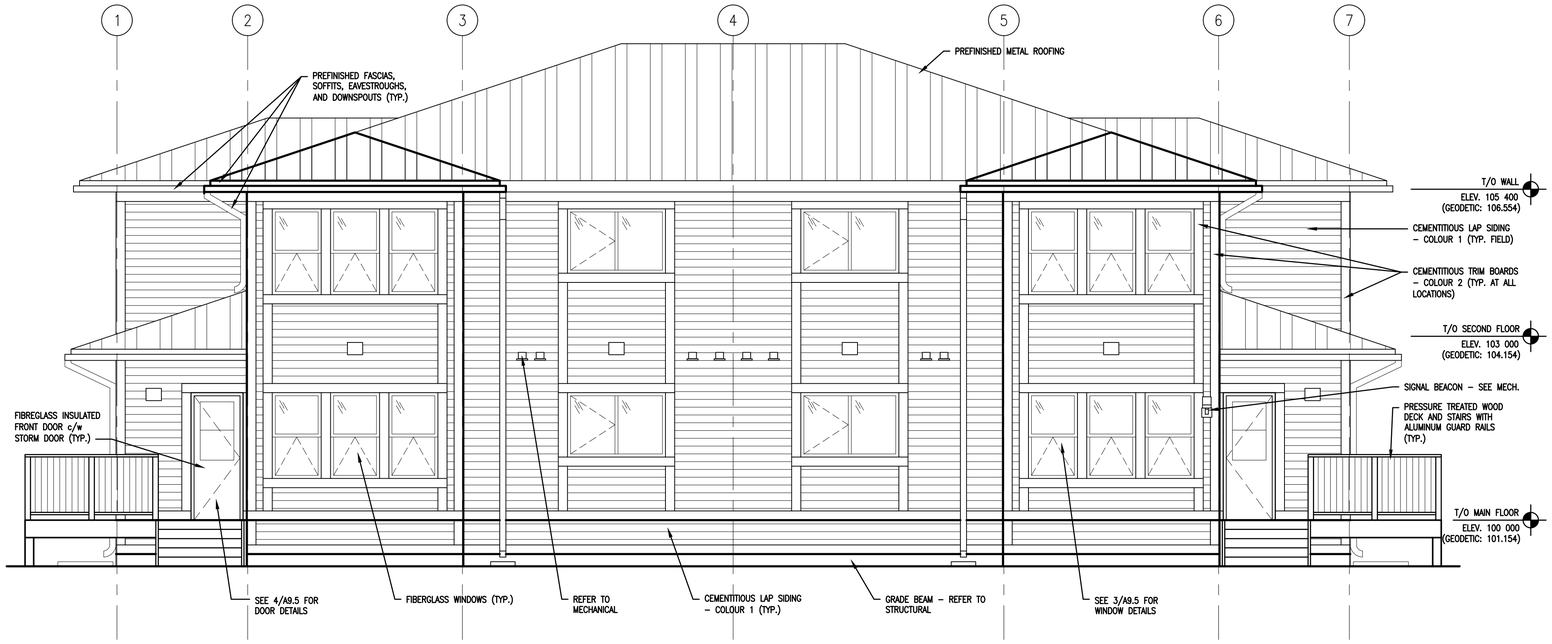
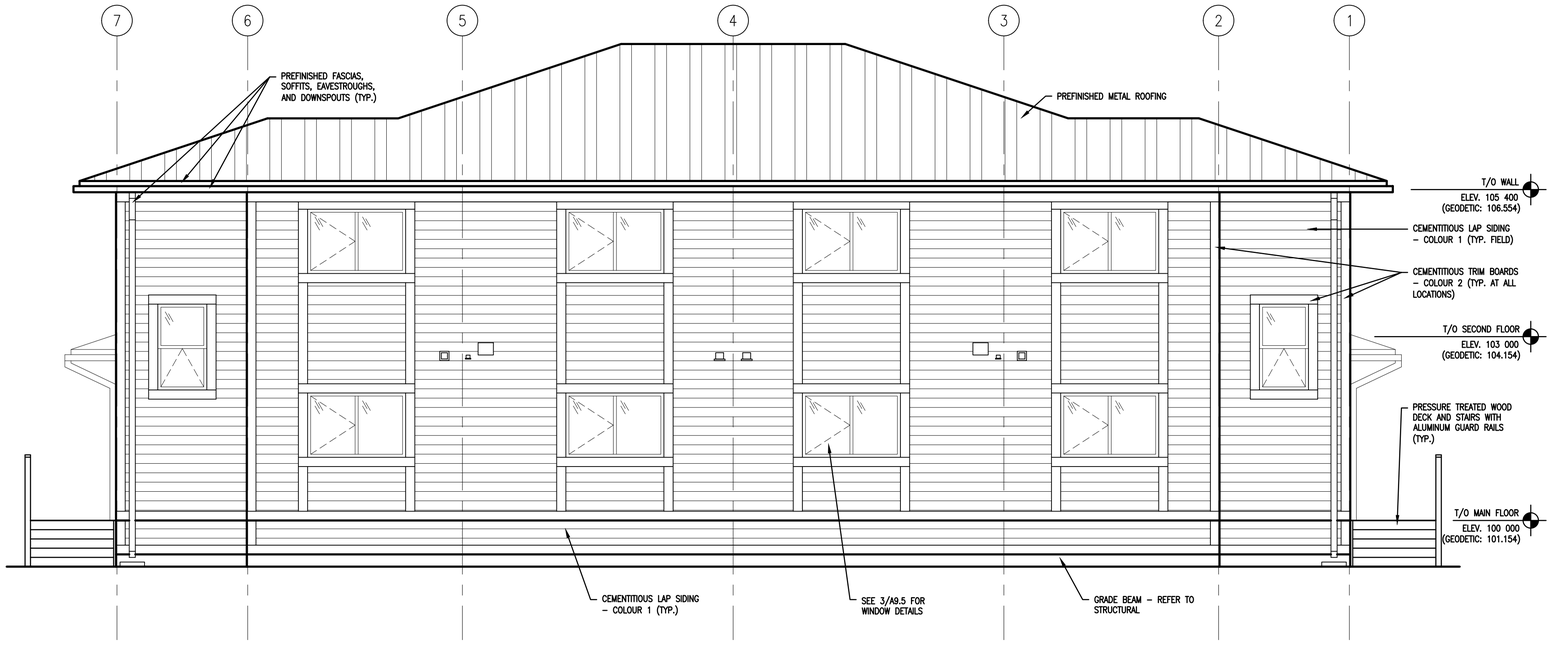


1 / A9.3 EAST ELEVATION
1:50



2 / A9.3 WEST ELEVATION
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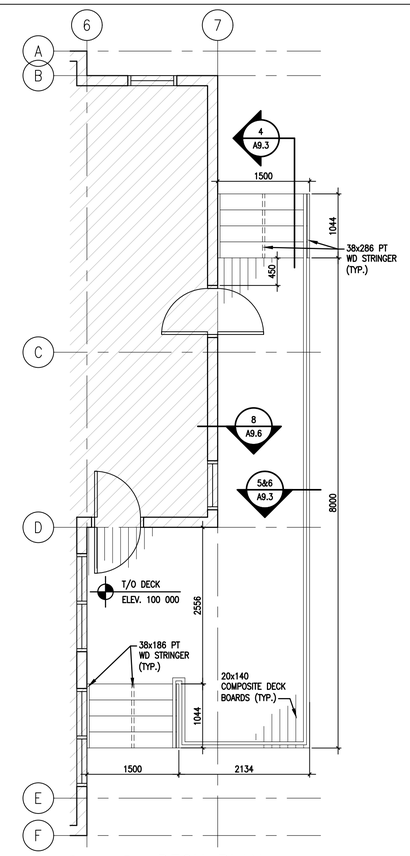
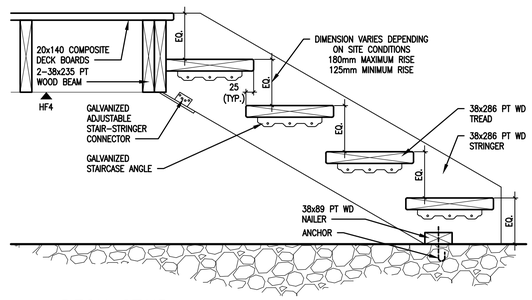
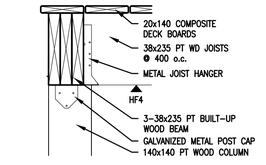


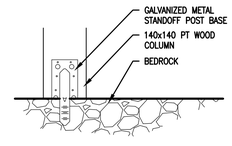
3 / A9.1 DECK PLAN
1:50



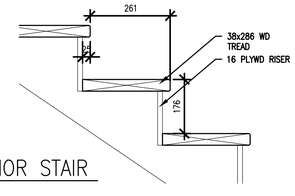
4 / A9.3 DECK STAIR
1:10



5 / A9.3 DECK BEAM TO COL.
1:10



6 / A9.3 DECK COL. AT GROUND
1:10



7 / A9.5 INTERIOR STAIR
1:10

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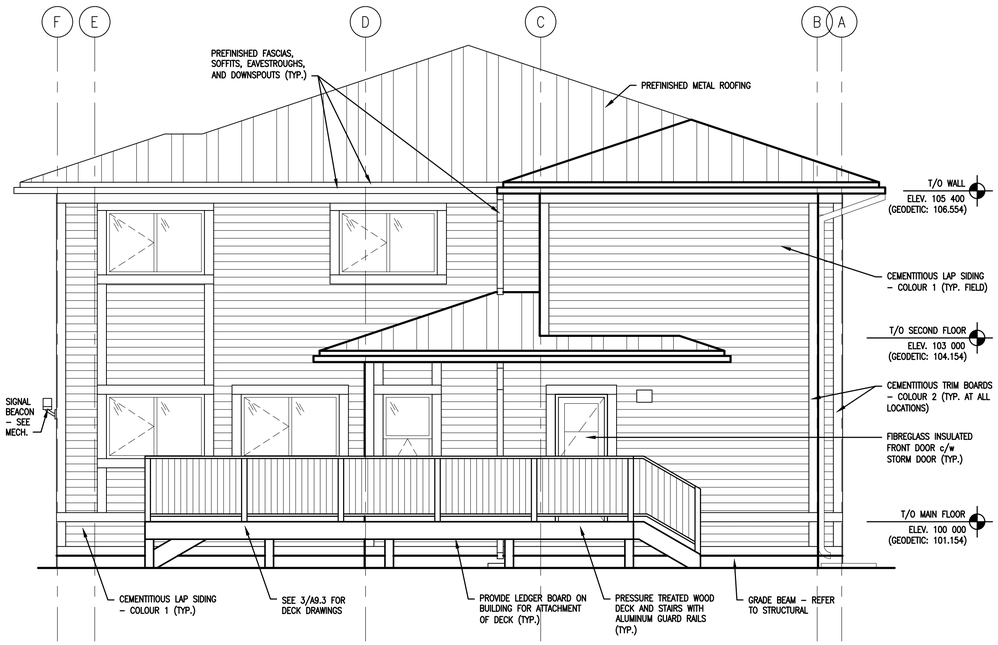
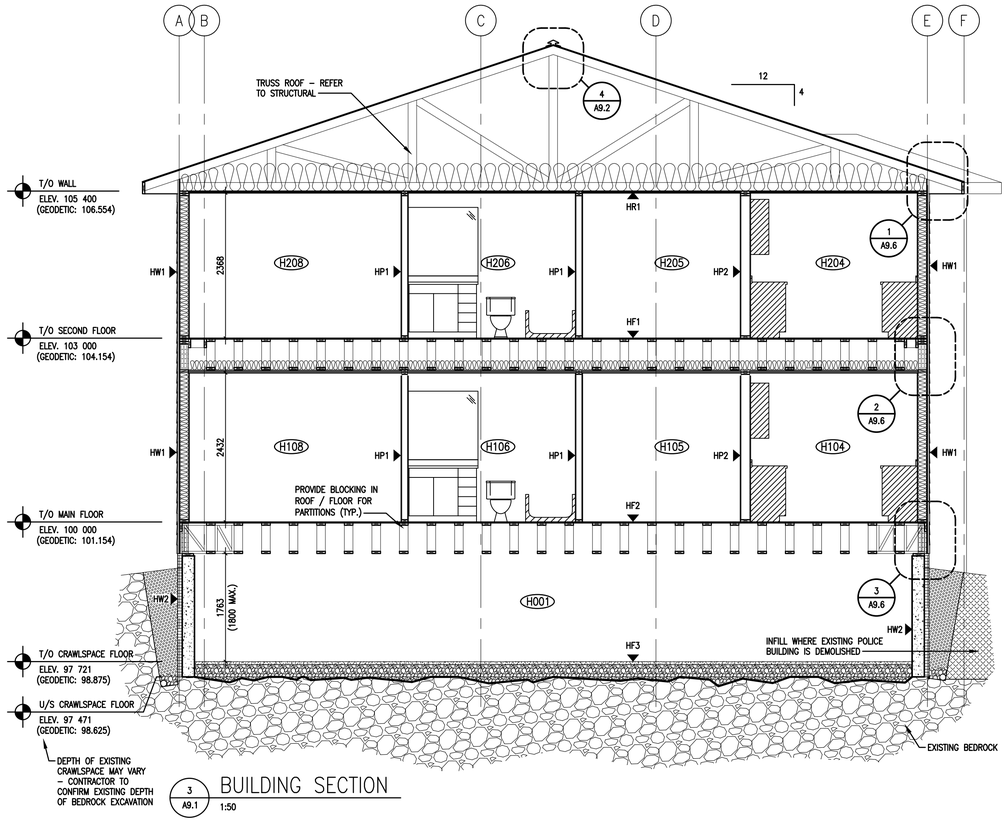
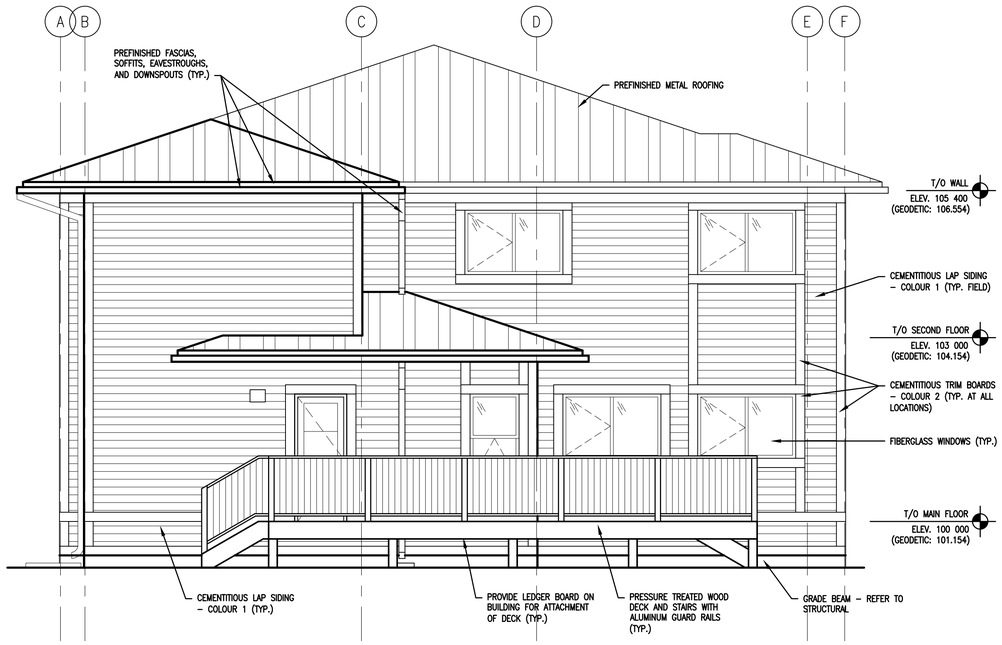


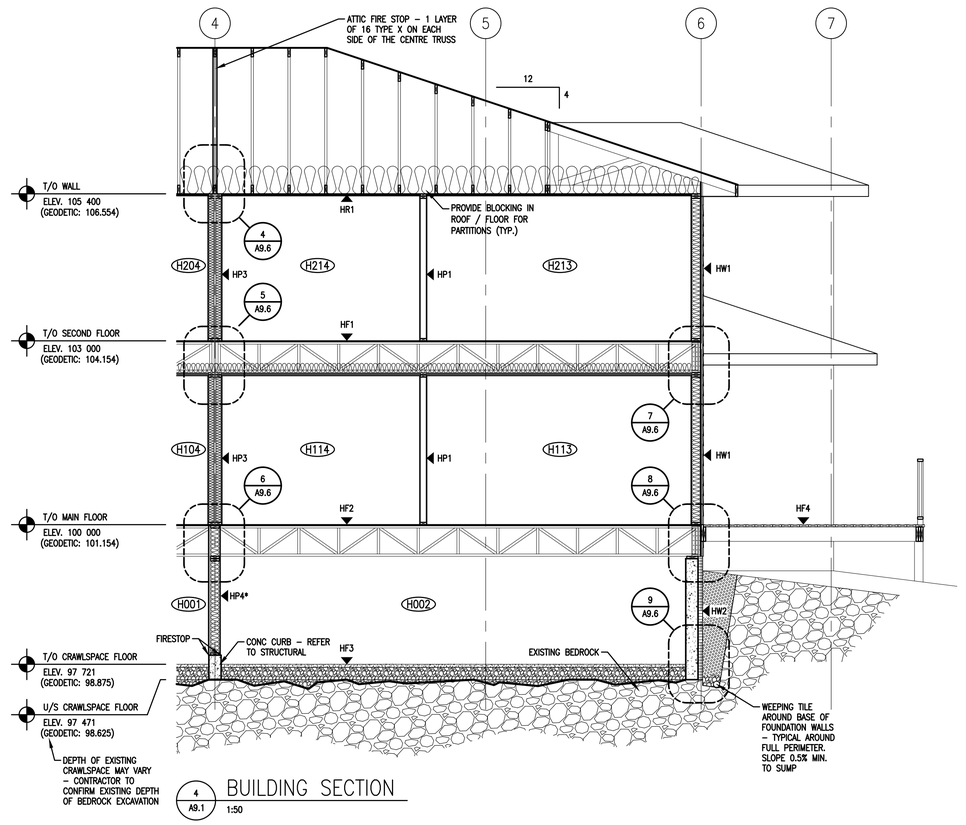
1 / A9.4 NORTH ELEVATION
1:50



3 / A9.1 BUILDING SECTION
1:50



2 / A9.4 SOUTH ELEVATION
1:50



4 / A9.1 BUILDING SECTION
1:50

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EXTERIOR ELEVATIONS
BUILDING SECTIONS

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PWGSC – A1 – 841X594

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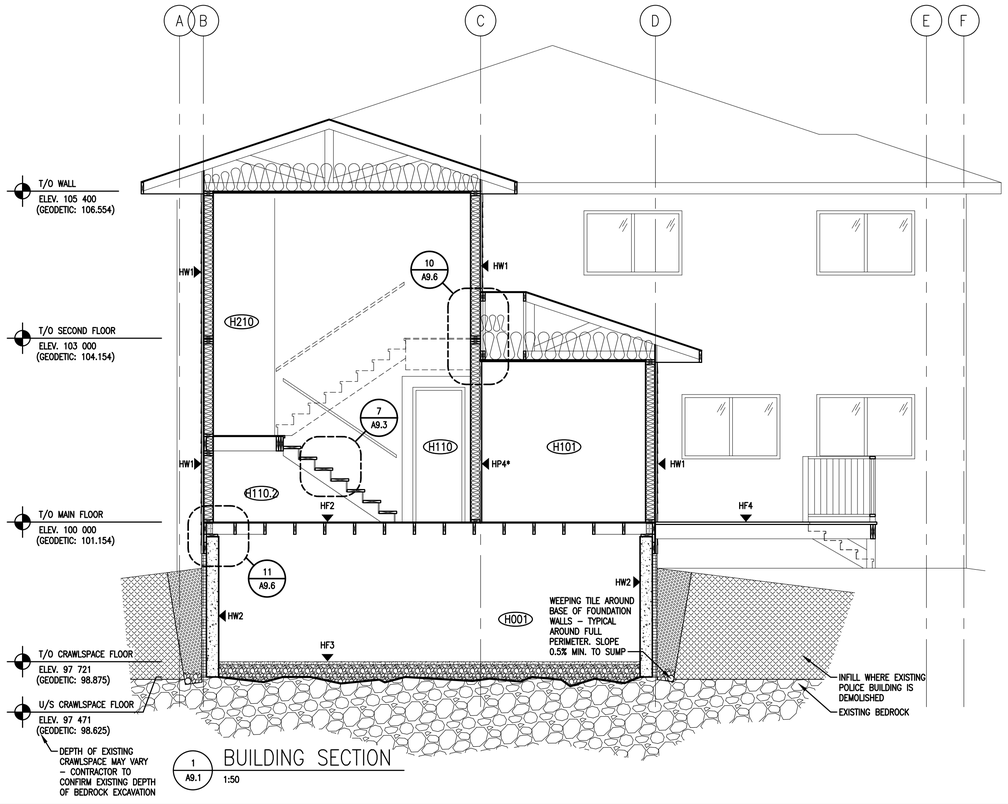
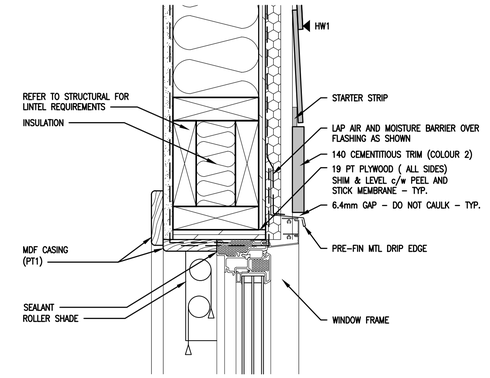


1 A9.1 BUILDING SECTION 1:50



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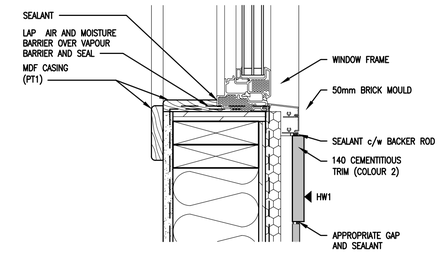

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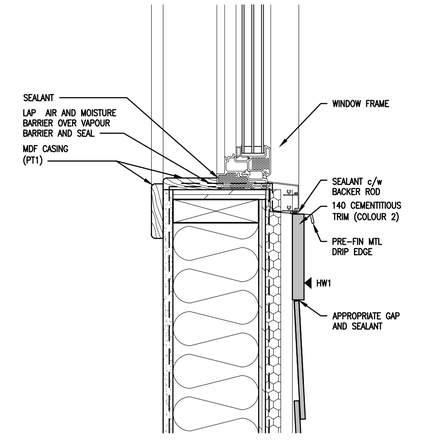
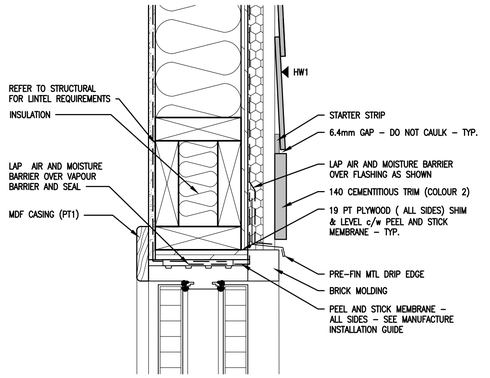
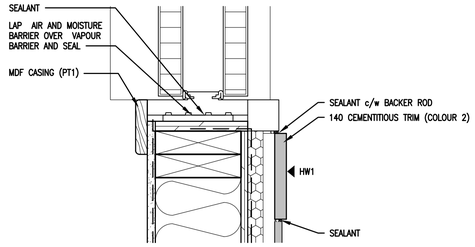


SILL

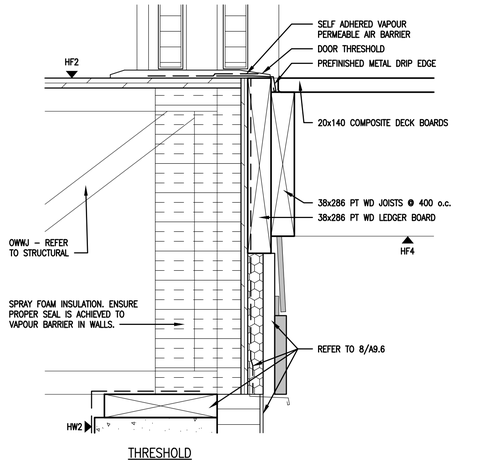
3 A9.3 WINDOW DETAILS 1:5



HEAD

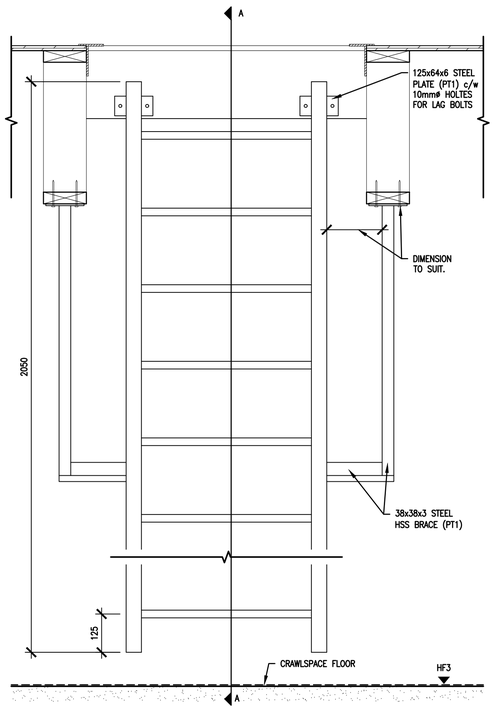


JAMB

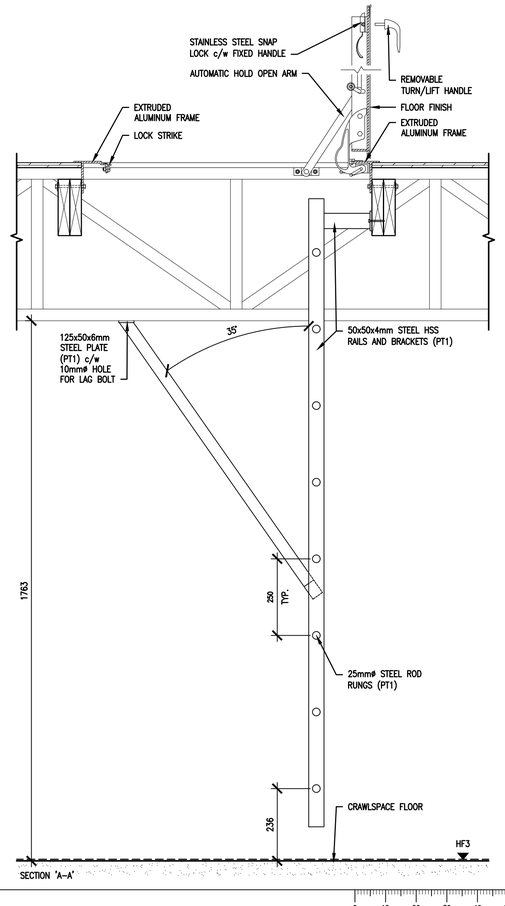


THRESHOLD

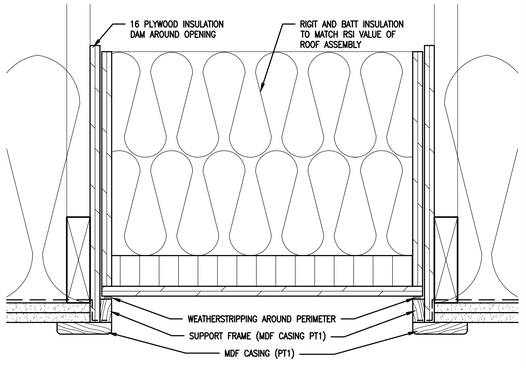
4 A9.3 DOOR DETAILS 1:5



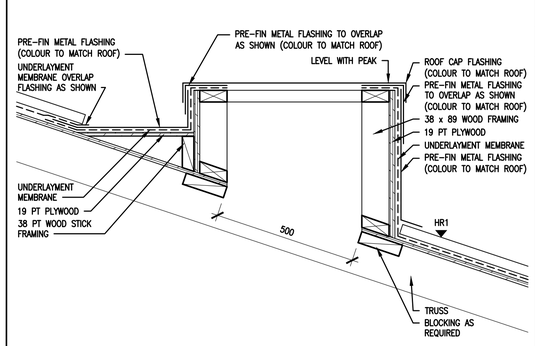
2 A9.1 CRAWLSPACE HATCH AND LADDER 1:10



SECTION 'A–A'



5 A9.2 ATTIC ACCESS HATCH 1:5



6 A9.2 ROOF CHASE 1:10

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

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■ website: www.sepw.ca

SASKATCHEWAN ASSOCIATION OF ARCHITECTS JUSTIN M. ENSOOM REGISTERED ARCHITECT Oct. 19, 2018

DO NOT SCALE DRAWINGS

Revision/ Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	18/10/19

Client/client

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
DE

Drawn by/Dessine par
JMM

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie

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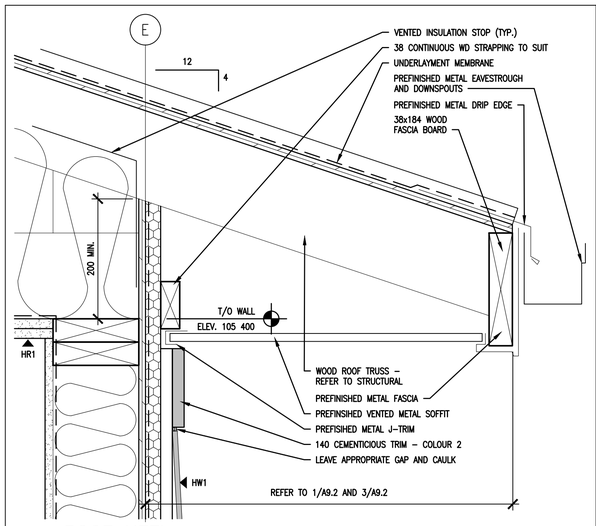
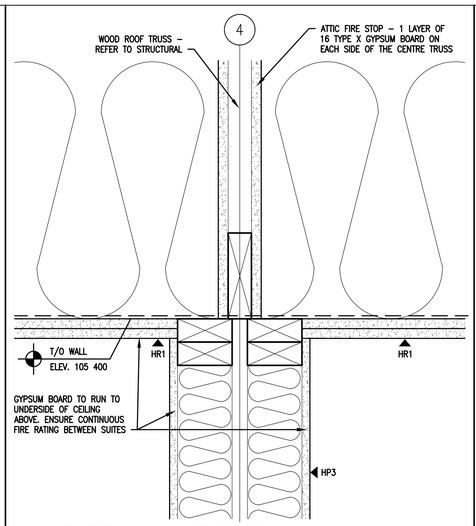
HOUSING:
BUILDING SECTIONS
DETAILS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	A9.5	0

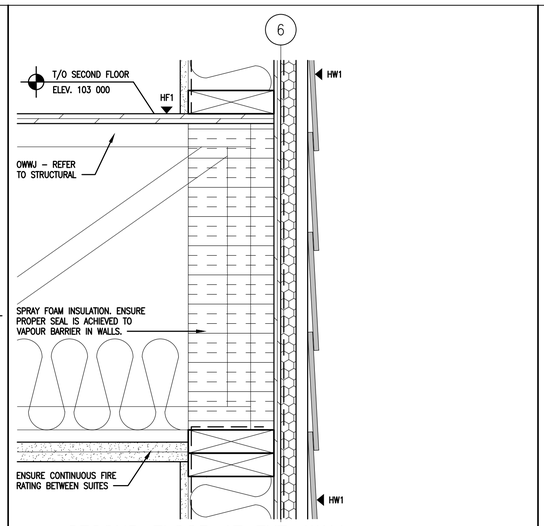
A000



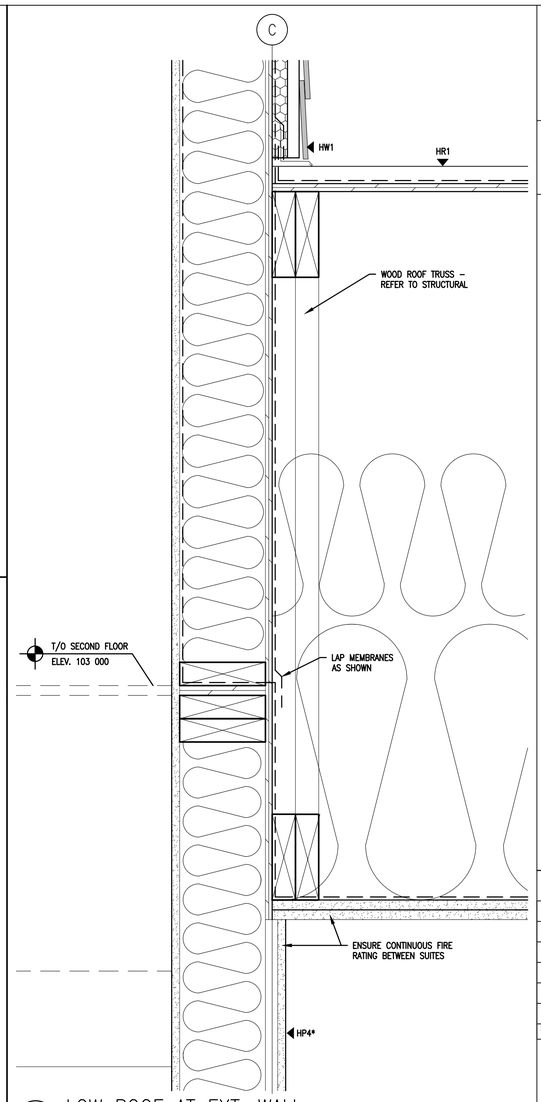
1 A9.4 ROOF HEEL 1:5



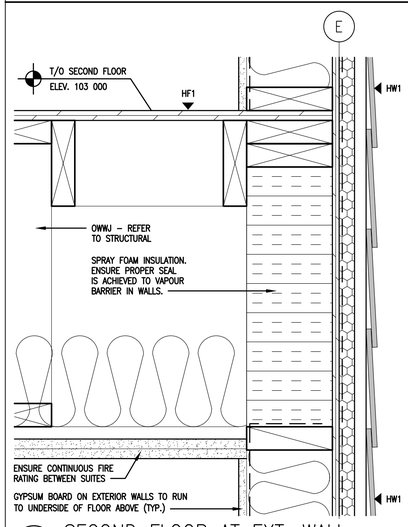
4 A9.4 PARTY WALL AT ROOF 1:5



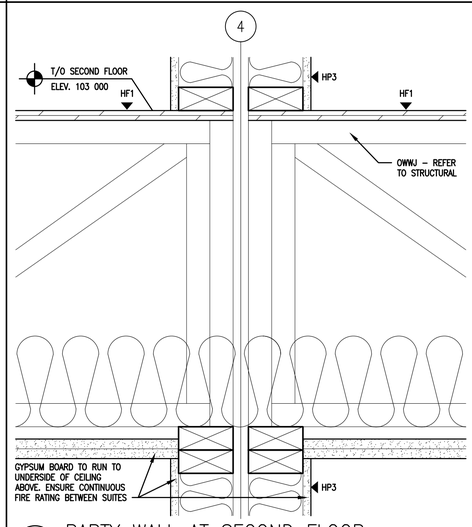
7 A9.4 SECOND FLOOR AT EXT. WALL 1:5



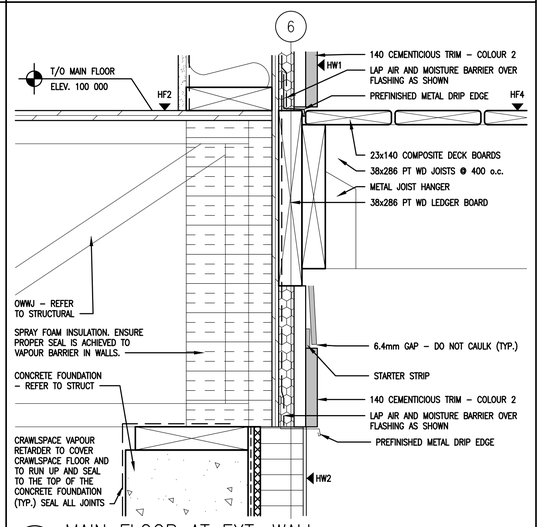
10 A9.5 LOW ROOF AT EXT. WALL 1:5



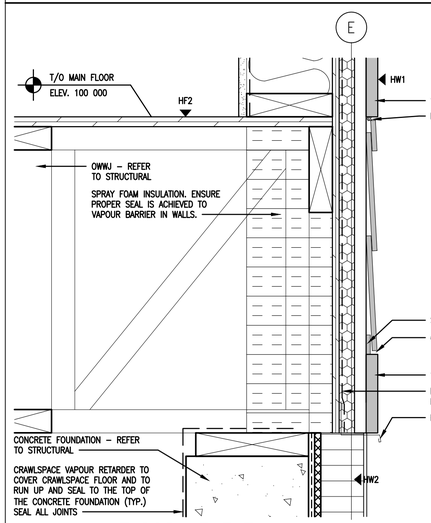
2 A9.4 SECOND FLOOR AT EXT. WALL 1:5



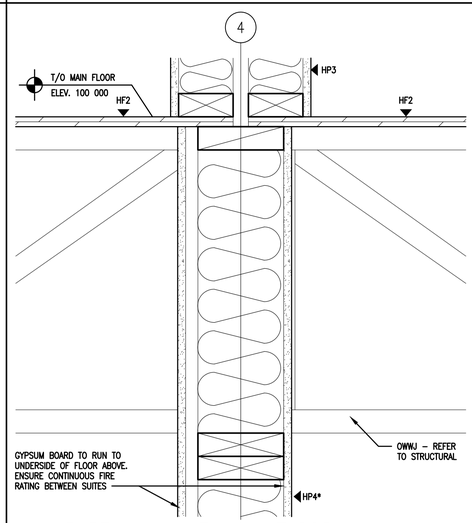
5 A9.4 PARTY WALL AT SECOND FLOOR 1:5



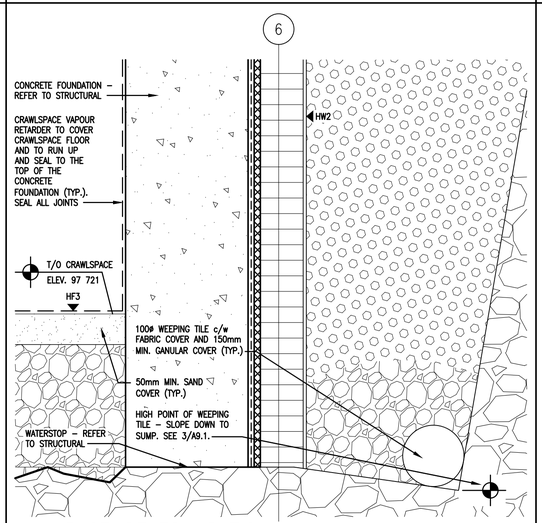
8 A9.4 MAIN FLOOR AT EXT. WALL 1:5



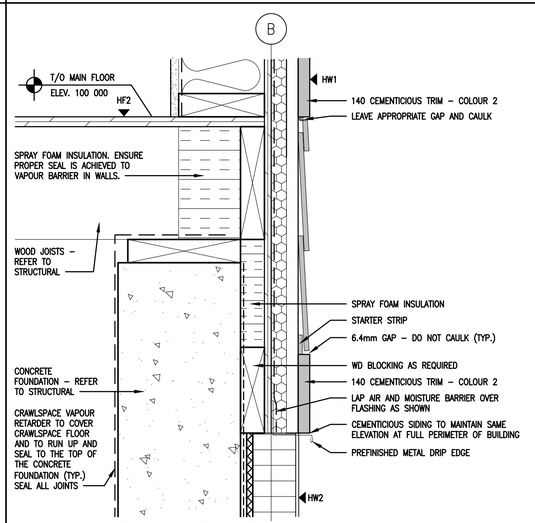
3 A9.4 MAIN FLOOR AT EXT. WALL 1:5



6 A9.4 PARTY WALL AT MAIN FLOOR 1:5



9 A9.4 BASE OF FOUNDATION 1:5



11 A9.5 MAIN FLOOR AT EXT. WALL 1:5

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

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■ website: www.sepw.ca

SASKATCHEWAN ASSOCIATION OF ARCHITECTS
JUSTIN DE SCHIFFART
REGISTERED ARCHITECT
SASKATOON
oct. 19, 2018

DO NOT SCALE DRAWINGS

Revision/ Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	18/10/19

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Approved by/Approuve par

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DE

Drawn by/Dessine par
JMM

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

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HOUSING:
DETAILS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	A9.6	0

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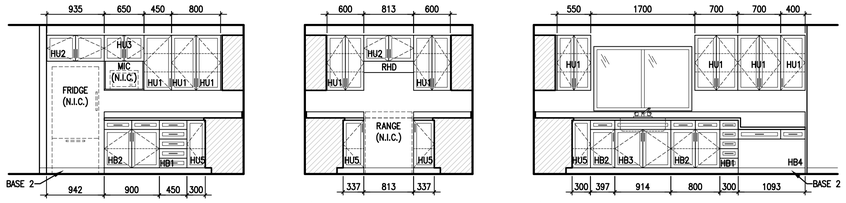
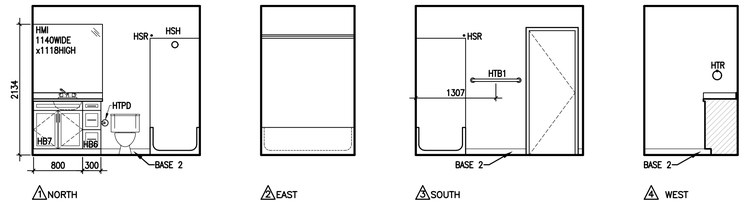


1 WEST 2 NORTH 3 EAST

1 A9.1 ROOM H104 & H204 ELEVATIONS

1:50

ROOMS H114 AND H214 SIM.

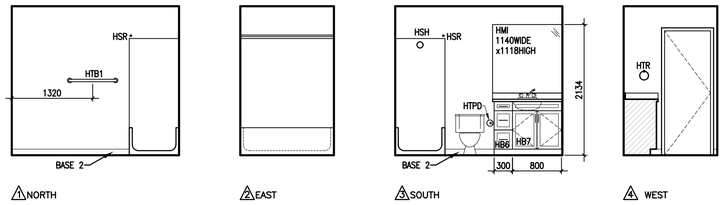


1 NORTH 2 EAST 3 SOUTH 4 WEST

2 A9.1 ROOM H106 & H206 ELEVATIONS

1:50

ROOMS H116 AND H216 SIM.

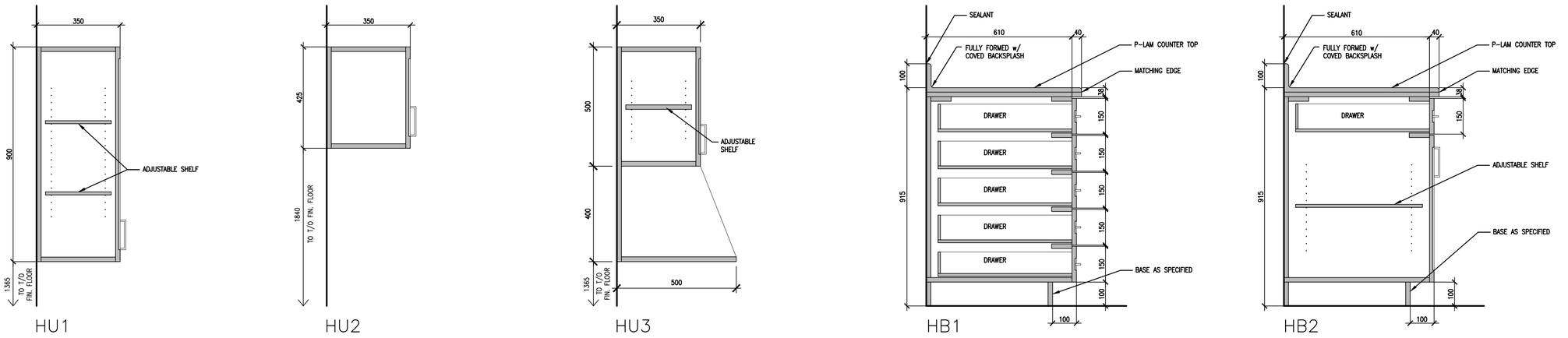


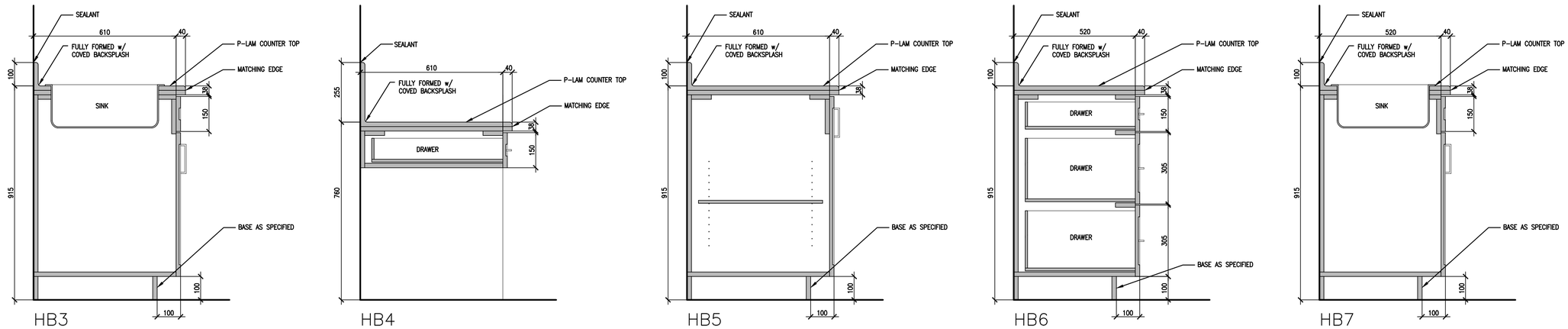
1 NORTH 2 EAST 3 SOUTH 4 WEST

3 A9.1 ROOM H107 & H207 ELEVATIONS

1:50

ROOMS H117 AND H217 SIM.





4 A9.7 MILLWORK DETAILS

1:10

SEPW Architecture Inc.
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website: www.sepw.ca

SASKATCHEWAN ASSOCIATION OF ARCHITECTS
JUSTIN [illegible]
REGISTERED ARCHITECT
SASKATOON
oct. 19, 2018

DO NOT SCALE DRAWINGS

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JMM

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Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

HOUSING:
INTERIOR ELEVATIONS
MILLWORK DETAILS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	A9.7	0

PWGSC – A1 – 841X594

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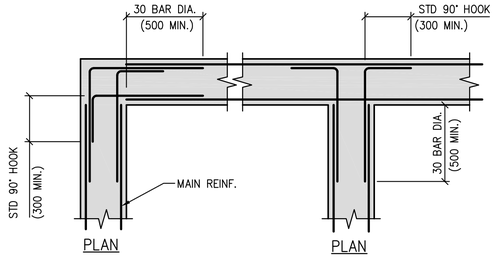
A000

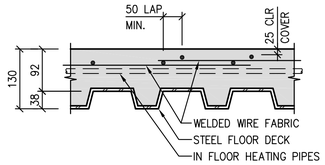


NOTE: 15M CORNER BAR REINFORCING. MATCH SPACING WITH HORIZONTAL REINFORCING OF WALL OR GRADE BEAM.

A S0 S0 TYP. WALL OR GRADE BEAM INTERSECTION

N.T.S.

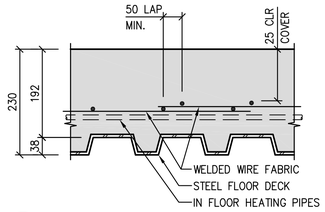
TYPICAL CONCRETE SLAB–ON–DECK
TOP OF CONCRETE SLAB @ ELEV. 100 000 U.N.O.
130 CONCRETE SLAB–ON–DECK
38mm x 0.76mm HI–BOND STEEL FLOOR DECK
DECK OVER CRAWL SPACES TO Z275 STANDARD
ALL OTHER AREAS TO BE ZF075 STANDARD
(ZINC WIPE COAT GALVANIZED) U.N.O.
REINF. CONC. WITH 152x152xMW25.8xMW25.8 WWF



B S0 S0 130 CONC. SLAB ON DECK DETAIL

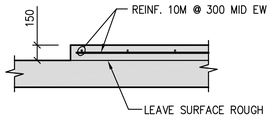
N.T.S.

TYPICAL CONCRETE SLAB–ON–DECK
TOP OF CONCRETE SLAB @ ELEV. 100 000 U.N.O.
130 CONCRETE SLAB–ON–DECK
38mm x 0.76mm HI–BOND STEEL FLOOR DECK
DECK OVER CRAWL SPACES TO Z275 STANDARD
ALL OTHER AREAS TO BE ZF075 STANDARD
(ZINC WIPE COAT GALVANIZED) U.N.O.
REINF. CONC. WITH 152x152xMW25.8xMW25.8 WWF



C S0 S0 230 CONC. SLAB ON DECK DETAIL

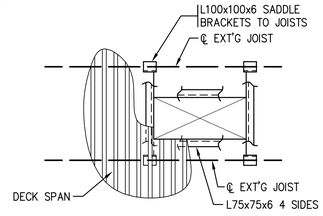
N.T.S.



REFER TO MECH. DWGS FOR EXACT SIZE & LOCATION

D S0 S0 TYP. MECHANICAL HOUSEKEEPING PADS

N.T.S.

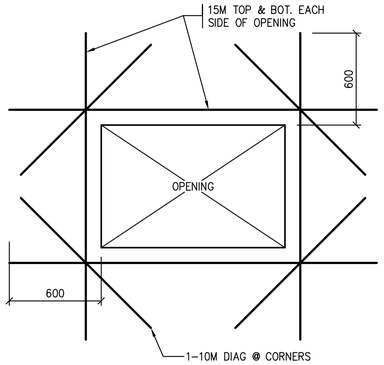


REFER TO MECHANICAL DRAWINGS FOR EXACT SIZE AND LOCATION OF NEW OPENINGS.

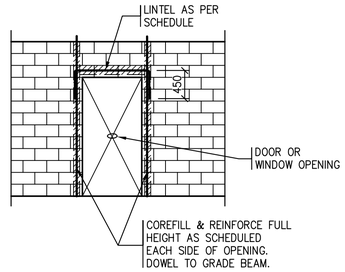
1. OPENINGS LESS THAN 150 TO BE UNREINFORCED.
2. OPENINGS 150 TO 450 TO BE REINFORCED AS PER SPEC.
3. OPENINGS GREATER THAN 450 REINFORCE AS DETAILED.
4. PROVIDE DECK SUPPORT PLANKS BELOW WOOD DECKING.

E S0 S0 PLAN @ TYP. FRAMING AROUND NEW ROOF OPENINGS

N.T.S.



F S0 S0 OPENING IN 180 STRUCTURAL SLAB

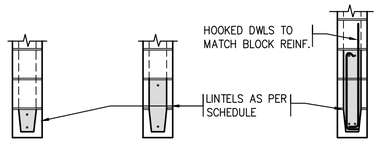


OPENINGS IN NEW MASONRY

JAMB REINFORCING

OPENING WIDTH	JAMB REINFORCING
0 TO 1200	1–15M IN 1 CORE EACH SIDE
1201 TO 1800	1–20M IN 1 CORE EACH SIDE
1801 & GREATER	2–15M IN 2 CORES EACH SIDE

G S0 S0 TYPICAL REINFORCING AROUND ALL OPENINGS IN LOADBEARING CONCRETE BLOCK WALLS



LINTELS:

1. TYPICAL LINTELS FOR OPENINGS UP TO 2400mm WIDE IN LOADBEARING WALLS AS SHOWN UNLESS DETAILED OTHERWISE. FOR LARGER OPENINGS SEE DETAILS.
2. ALL LINTELS TO BEAR MIN. 200 EACH END.

OPENING WIDTH	200 CONC BLOCK
0 TO 1200	200 HIGH ℄/w 2–20M BOT
1201 TO 2400	400 HIGH ℄/w 1–20M TOP & BOT.
2401 TO 3600	600 HIGH ℄/w 2–15M TOP & BOT. 10M TIES @ 400mm/c

H S0 S0 TYPICAL LINTEL DETAILS FOR CONCRTE BLOCK

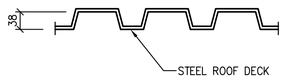
NOTES:
ALL CONCRETE BLOCK WALLS TO BE REINFORCED WITH 1–10M c/w CORE FILLING EACH CORE UNLESS NOTED OTHERWISE. EXTEND VERTICAL REINFORCING THRU BOND BEAMS. DOWEL TO FOUNDATION WITH 10Mx1200lg DOWELS @ 800mm/c MAX.

1. CO–ORDINATE CORE FILLING WITH PLACEMENT OF MECH/ELEC SERVICES TO BE PLACE IN CORES.
2. STRUCTURAL DRAWINGS DETAIL EXTENT OF STRUCTURAL WALL REINFORCING ONLY. THESE REQUIREMENTS TO BE READ WITH AND CO–ORDINATED WITH ARCHITECTURAL DRAWINGS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR TYPES OF CONCRETE BLOCK AND EXTENT OF COREFILLING FOR SECURITY AND SOUND REQUIREMENTS.

J S0 S0 TYPICAL CONCRETE BLOCK WALL REINFORCING DETAILS

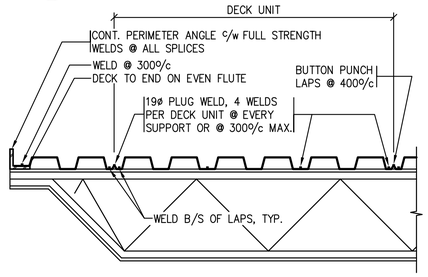
TYPICAL ROOF DECK
U/S DECK ELEVATION AS DETAILED
38mm x 0.91mm or 1.22mm STEEL ROOF DECK MINIMUM.
(SIZED TO SUIT LOADS ON PLANS)
ZF075 STANDARD (ZINC WIPE COAT GALVANIZED) U.N.O.

NOTE:
ROOF DECK NOTED IN ARCHITECTURAL ROOM SCHEDULE AS RECEIVING PAINT TO BE PRIME PAINTED RATHER THAN ZINC WIPE COAT GALVANIZED.



K S0 S0 METAL ROOF DECK DETAIL

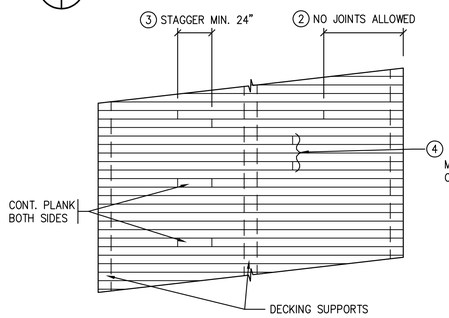
NTS



ALL WELDS TO BE 19ø PLUG WELDS, TOUCH UP GALVANIZING

L S0 S0 TYP. DECK WELDING DETAILS

NTS



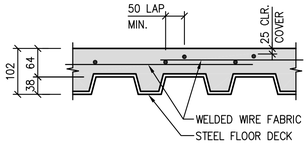
M S0.1 S0.1 WOOD DECK PLACEMENT

N.T.S.

CONTROLLED RANDOM

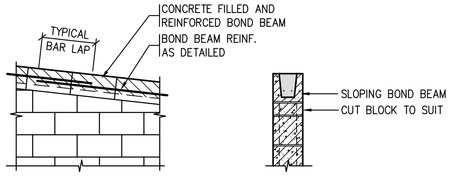
1. MINIMUM DECK SUPPORT – 2 SPAN.
2. END JOINTS NOT PERMITTED IN OUTERHALF OF END SPANS.
3. END JOINTS IN ADJACENT COURSED, STAGGER MINIMUM 600.
4. END JOINTS IN THE SAME GENERAL LINE MUST BE SEPARATED BY MINIMUM 2 INTERVENING COURSES.
5. PLANKS THAT DO NOT SPAN OVER SUPPORT MUST BE FLANKED BY CONTINUOUS PLANKS BOTH SIDES AND SEPARATED BY 6 PLANKS.
6. SECURE PLANKS TO STEEL BEAMS WITH 13ø BOLTS @ 400ø STAGGERED LATERALLY. SPIKE PLANKS TOGETHER WITH 250 SPIKES @ 750mm/c IN PRE–DRILLED HOLES.

TYPICAL CONCRETE SLAB–ON–DECK
TOP OF CONCRETE SLAB @ ELEV. 104 550 U.N.O.
100 CONCRETE SLAB–ON–DECK
38mm x 0.76mm HI–BOND STEEL FLOOR DECK
DECK TO BE ZF075 STANDARD (ZINC WIPE COAT GALVANIZED) U.N.O.
REINF. CONC. WITH 152x152xMW25.8xMW25.8WWF



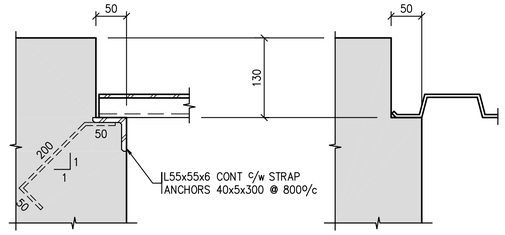
N S0 S0 102 CONC. SLAB ON DECK DETAIL

N.T.S.



7 S0 S0 SLOPING BOND BEAM DETAIL

N.T.S.

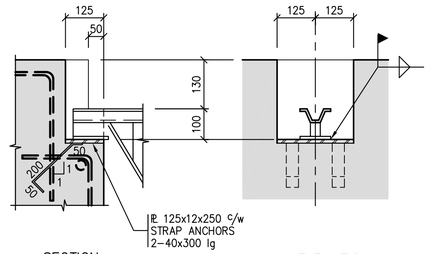


SECTION PERPENDICULAR AND/OR SKEWED DIRECTIONS TO SUPPORT

SECTION PARALLEL

P S0 S0 TYP. DECK BEARING DETAIL

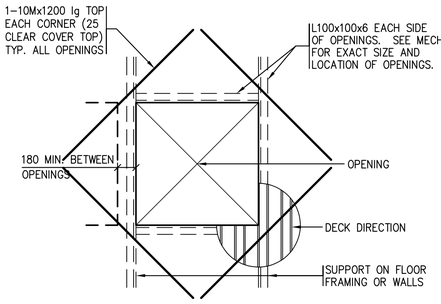
1 : 10



SECTION ELEVATION

Q S0 S0 TYP. JOIST BEARING DETAIL

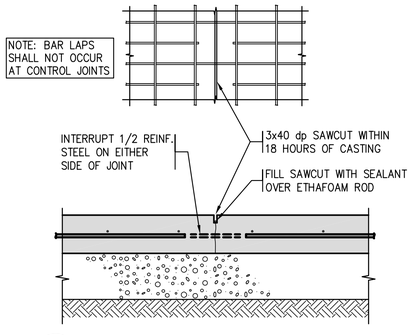
1 : 10



R S0 S0 TYP. FRAMING AROUND OPENINGS IN CONC. SLAB ON DECK

N.T.S.

NOTE: BAR LAPS SHALL NOT OCCUR AT CONTROL JOINTS



S S0 S0 TYPICAL CONTROL JOINT DETAIL @ 125 SLAB–ON–GRADE

N.T.S.

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PELICAN NARROWS, SASKATCHEWAN

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R-10-2017	S0	0

PWGSC – A1 – 841X594

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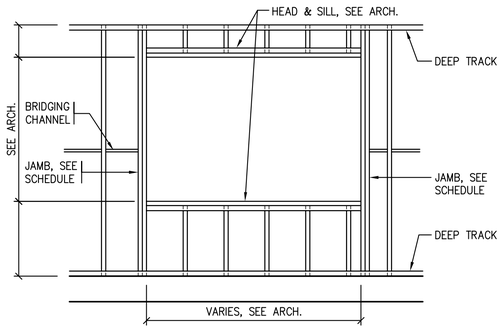
A000



ELEVATION

WIND BEARING STEEL STUD SCHEDULE				
Component	Location	Size (D x W x t) (mm)	Spacing (mm)	Note
BOTTOM TRACK	TYPICAL	152x38x1.14 (18ga)	N/A	
OUTSIDE TOP TRACK	TYPICAL	152x51x1.14 (18ga)	N/A	
INSIDE TOP TRACK	TYPICAL	152x76x1.14 (18ga)	N/A	25mm DEFLECTION
SLOTTED TOP TRACK (ALT)	TYPICAL	152x76x1.14 (18ga)	N/A	25mm DEFLECTION
WALL STUDS	TYPICAL	152x41x1.14 (18ga)	400 o/c	BRIDGING @ 1200 o/c
PARAPET STUDS	TYPICAL	152x41x0.88 (20ga)	400 o/c	BRIDGING @ 1200 o/c

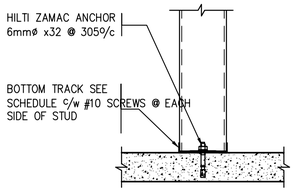
STEEL STUD LINTEL SCHEDULE			
	OPENING WIDTHS		
	0 to 1200	1201 to 2400	2401 to 3600
JAMBS	2 STUDS	2 STUDS	3 STUDS
HEAD	1 TRACK	1 TRACK 1 STUD	3 TRACK & 2 STUDS
SILL	1 TRACK	1 STUD 1 TRACK	3 TRACK & 2 STUDS

NOTE:

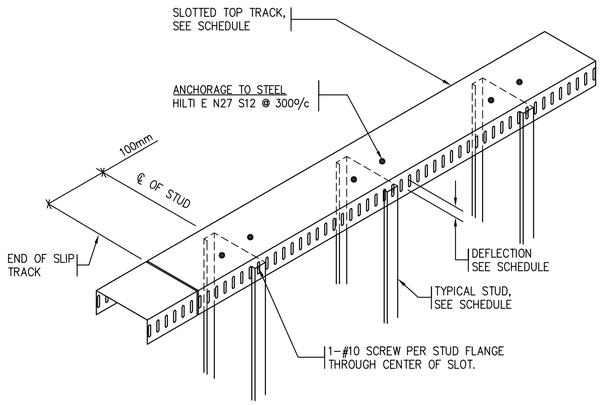
1. STEEL STUD LINTEL SCHEDULE
2. ALL MULTI-PLY JAMBS TO BE SCREWED TOGETHER @ MIN. 610o/c.
3. STUDS TO BE SCREWED TO TRACKS AT SILL AND HEADS.
4. TRACK THICKNESS 1.81mm FOR OPENINGS > 2400mm.
5. CONFIRM OPENING SIZES WITH ARCHITECTURAL PLANS AND ELEVATIONS.

A S0.1 S0.1 STEEL STUD SCHEDULE N.T.S.

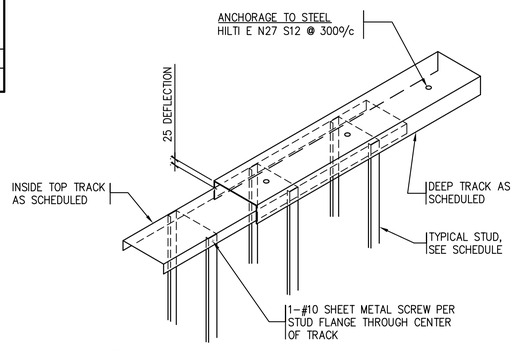
B S0.1 S0.1 TOP TRACK TO STEEL BEAM DETAIL N.T.S.



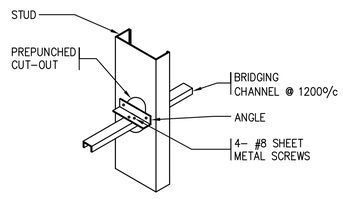
C S0.1 S0.1 TYP. DETAIL @ BOTTOM TRACK N.T.S.



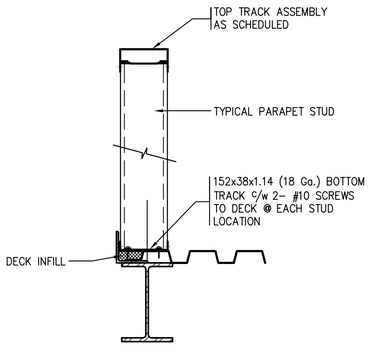
D S0.1 S0.1 SLOTTED TOP TRACK DETAIL (ALTERNATE) N.T.S.



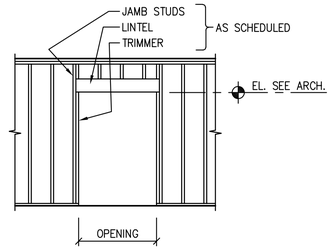
E S0.1 S0.1 DOUBLE TOP DRACK DETAIL. OPTION N.T.S.



F S0.1 S0.1 TYPICAL BRIDGING DETAIL N.T.S.

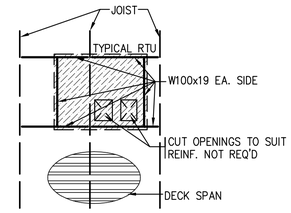


G S0.1 S0.1 PARAPET DETAIL N.T.S.

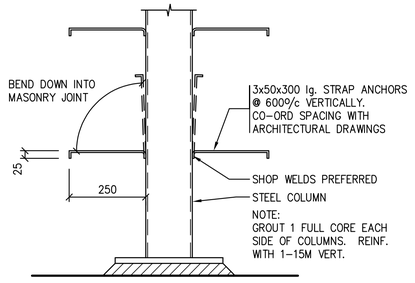


OPENING WIDTH	LINTEL	TRIMMER	JAMB
0 – 1200	2-38x184	1	1
1200 – 1800	2-38x235	1	2
1800 – 2200	3-38x235	1	2
1800 – 4880	2-44x241 GANGLAM LVL	2	3

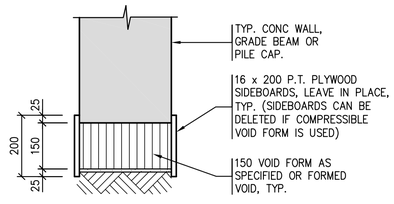
H S0.1 S0.1 WOOD LINTEL SCHEDULE N.T.S.
LINTEL AS PER SCHEDULE UNLESS NOTED OTHERWISE



J S0.1 S0.1 TYPICAL RTU SUIPPORT FRAME N.T.S.



K S0.1 S0.1 MASONRY TO STEEL COLUMNS N.T.S.



L S0.1 S0.1 TYP. VOID FORM DETAIL N.T.S.

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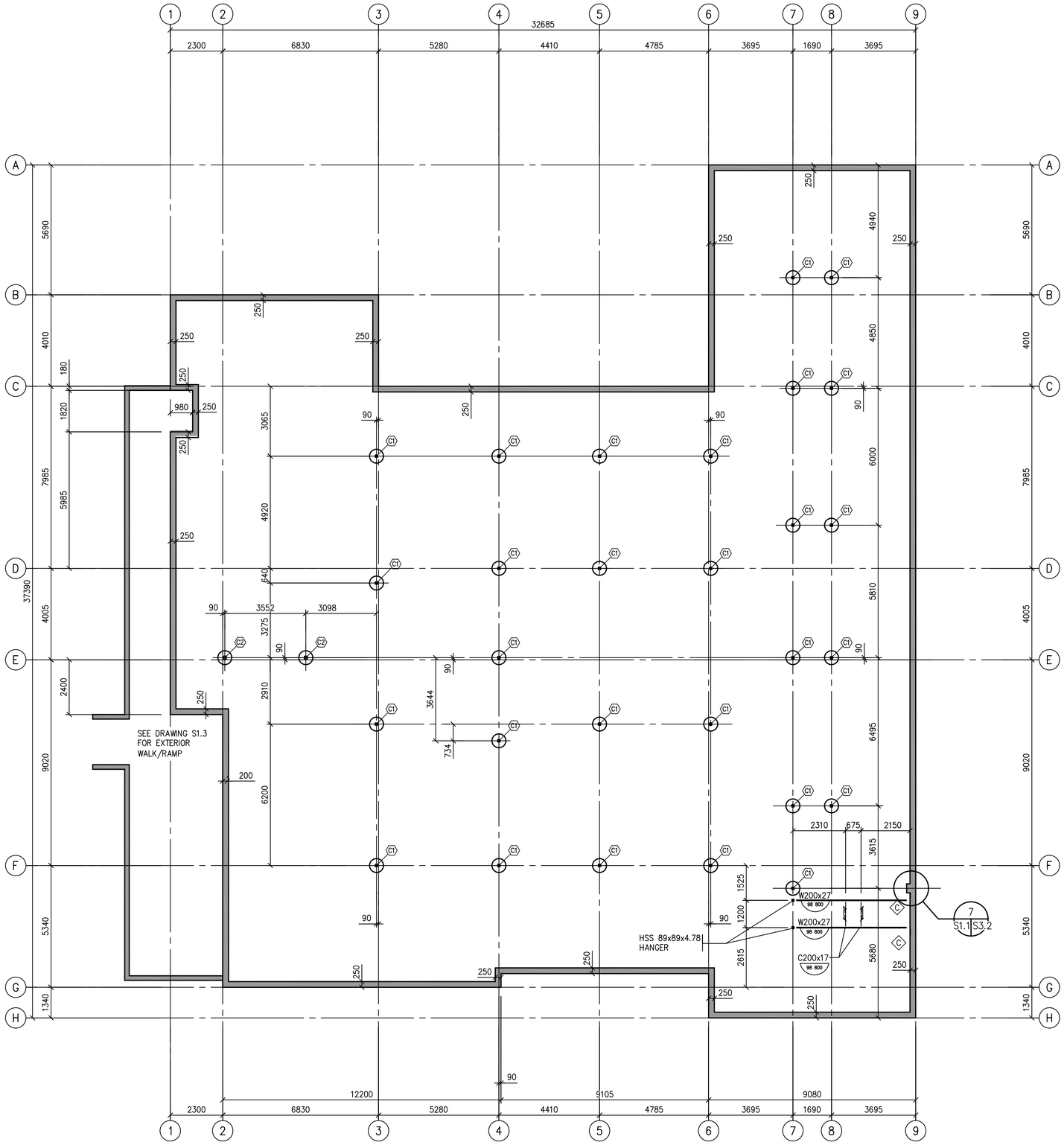


1 S1.1 | S1.1 FOUNDATION PLAN

1 : 100

NORTH

COLUMN & BASE PLATE SCHEDULE

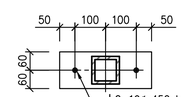
MARK NO.	COLUMN SIZE	BASE ℙ TYPE.	U/S ℙ ELEVATION	REMARKS
C1	HSS 102x102x6.4	D	98 440	
C2	HSS 127x127x6.4	D	98 440	
C3	HSS 89x89x4.8	A	100 040	
C4	HSS 89x89x4.8	B	100 040	
C5	HSS 89x89x4.8	C	100 040	
C6	HSS 127x127x6.4	F	100 040	
C7	HSS 127x127x6.4	G	100 040	
C8	HSS 127x127x6.4	H	100 040	
C9	HSS 89x89x4.8	A	102 940	
C10	HSS 89x89x4.8	B	102 940	
C11	HSS 89x89x4.8	C	102 940	
C12	HSS 89x89x4.8	E	102 940	
C13	HSS 89x89x4.8	J	103 640	
C14	HSS 89x89x4.8	B	103 640	

C. COLUMN MARK No.

DESIGNATION ON PLAN

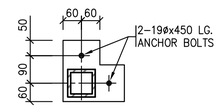
BASE PLATE SCHEDULE

ALL BASE PLATES TO BE PLACED OVER 40± GROUT UNLESS NOTED OTHERWISE



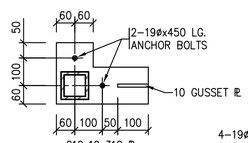
300x19x120 ℙ
HSS 89x89 COL
HSS 102x102 COL

B. ℙ TYPE A



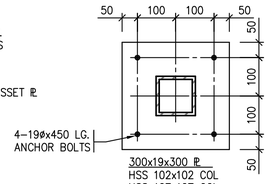
200x19x200 ℙ
HSS 89x89 COL
HSS 102x102 COL

B. ℙ TYPE B



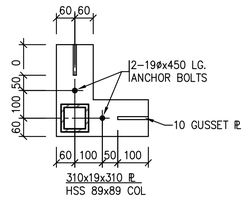
210x19x310 ℙ
HSS 89x89 COL
HSS 102x102 COL

B. ℙ TYPE C



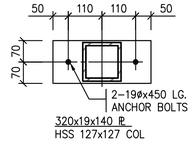
300x19x300 ℙ
HSS 102x102 COL
HSS 127x127 COL

B. ℙ TYPE D



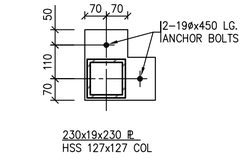
310x19x310 ℙ
HSS 89x89 COL

B. ℙ TYPE E



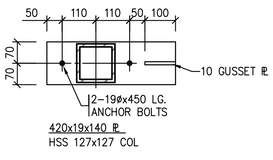
320x19x140 ℙ
HSS 127x127 COL

B. ℙ TYPE F



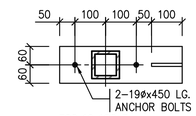
230x19x230 ℙ
HSS 127x127 COL

B. ℙ TYPE G



420x19x140 ℙ
HSS 127x127 COL

B. ℙ TYPE H



300x19x120 ℙ
HSS 89x89 COL

B. ℙ TYPE J

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PWGSC – A1 – 841X594

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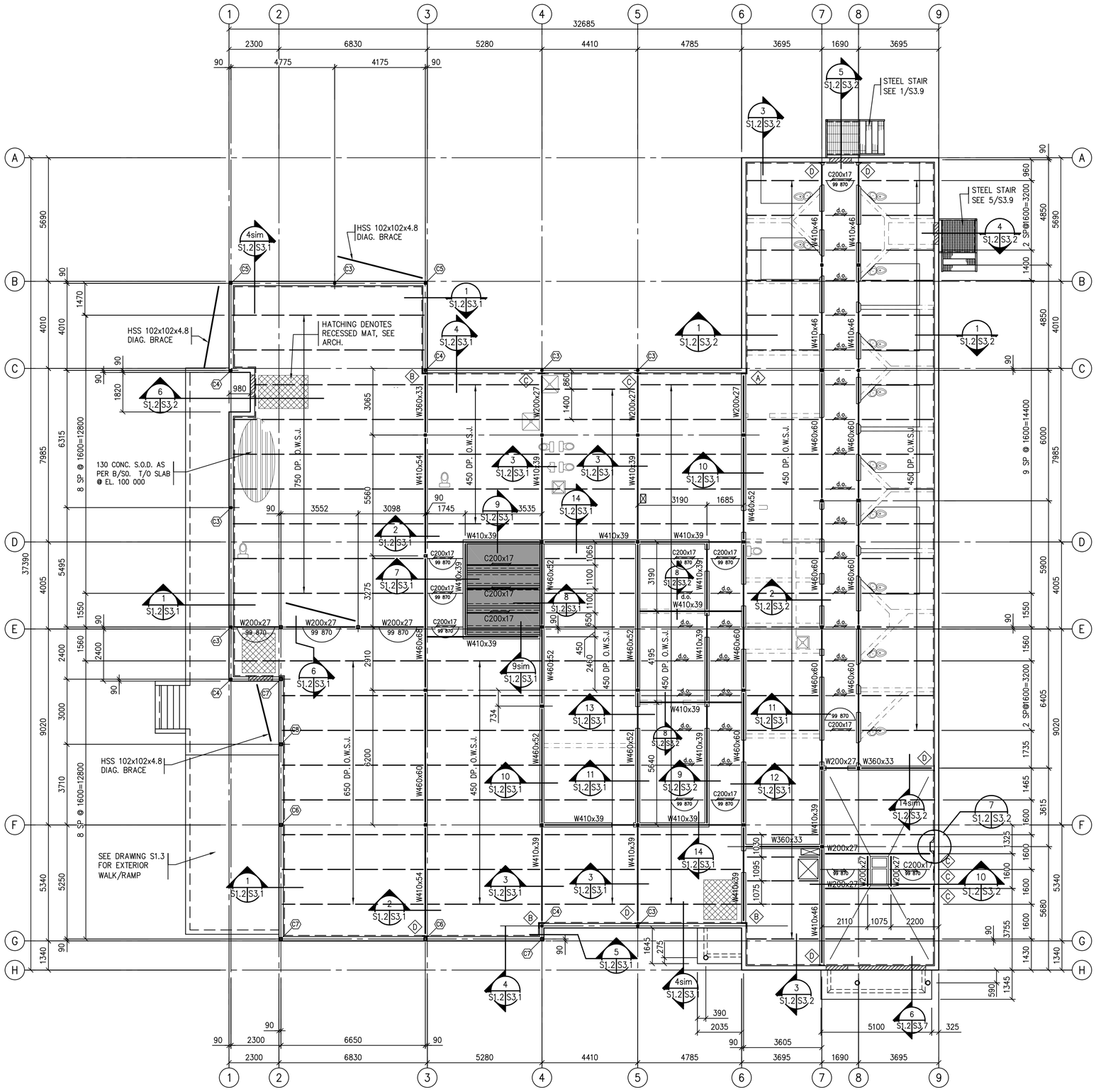
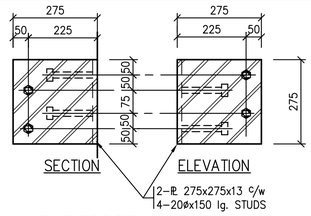
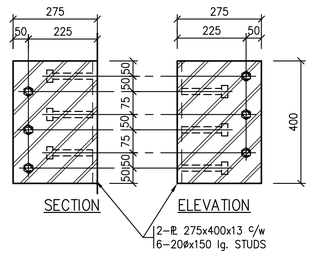
A000



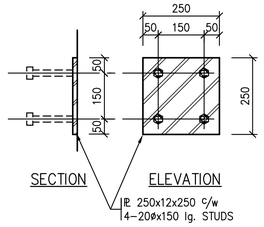
1 S1.2 S1.2 — MAIN FLOOR PLAN — 1 : 100



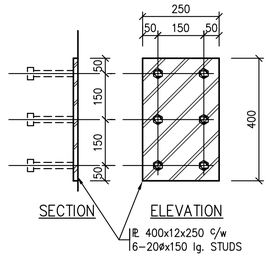
EMBEDDED ℄ TYPE A



EMBEDDED ℄ TYPE B



EMBEDDED ℄ TYPE C



EMBEDDED ℄ TYPE D

2 S1.2 S1.2 — EMBEDDED PLATE DETAIL — 1 : 10

NOTES:

1. FLOOR CONSTRUCTION TO BE:
   130 CONCRETE SLAB ON METAL DECK, REFER TO TYPICAL SLAB ON DECK DETAIL.
   OPEN WEB STEEL JOIST (O.W.S.J.) AS NOTED ON PLAN c/w 100 dp SEAT U.N.O.
   JOIST DESIGN BY JOIST SUPPLIER.
   CO-ORDINATE AND ADJUST SPACING OF FLOOR JOISTS TO SUIT MECHANICAL
   REFER TO TYPICAL DECK WELD DETAIL.
   BRACING SHOWN IS IN ADDITION TO THE REQUIREMENTS OF THE JOIST SUPPLIER.
2. T/O MAIN FLOOR CONCRETE @ ELEVATION 100 000
3. FLOOR DESIGN LOADS
   LIVE LOAD = 4.8 KPa
   DEAD LOAD = 3.1 KPa
4. FLOOR CONSTRUCTION (SHADED) TO BE:
   230 CONCRETE SLAB ON METAL DECK, REFER TO TYPICAL SLAB ON DECK DETAIL.
   OPEN WEB STEEL JOIST (O.W.S.J.) AS NOTED ON PLAN c/w 100 dp SEAT U.N.O.
   JOIST DESIGN BY JOIST SUPPLIER.
   CO-ORDINATE AND ADJUST SPACING OF FLOOR JOISTS TO SUIT MECHANICAL
   REFER TO TYPICAL DECK WELD DETAIL.
   BRACING SHOWN IS IN ADDITION TO THE REQUIREMENTS OF THE JOIST SUPPLIER.
5. T/O MAIN FLOOR CONCRETE (SHADED) @ ELEVATION 100 000
6. FLOOR DESIGN LOADS (SHADED)
   LIVE LOAD = 6.7 KPa
   DEAD LOAD = 5.0 KPa
7. INSTALL ADDITIONAL 10M x 2400 lg AT 300 o.c. CENTRED OVER ALL INTERIOR STEEL BEAMS RUNNING PARALLEL WITH FLOOR DECK. CHAIR 10M TIGHT TO U/S W.W.M. AT 40 CLEAR FROM TOP OF SLAB.
8. COLUMNS DENOTED ON PLAN THUS ⬠ SEE TYPICAL COLUMN & BASE PLATE SCHEDULE.
9. TOP OF STEEL BEAMS AT ELEVATION 99 770 U.N.O. THUS ⌒
10. EMBED PLATES DENOTED ON PLAN THUS ◇ SEE 2/S1.2.
11. REFER TO DRAWING S1.3 FOR EXTERIOR STRUCTURAL WALKS, STAIRS AND RETAING WALLS.

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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
S.K.

Drawn by/Dessine par
B.R.

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

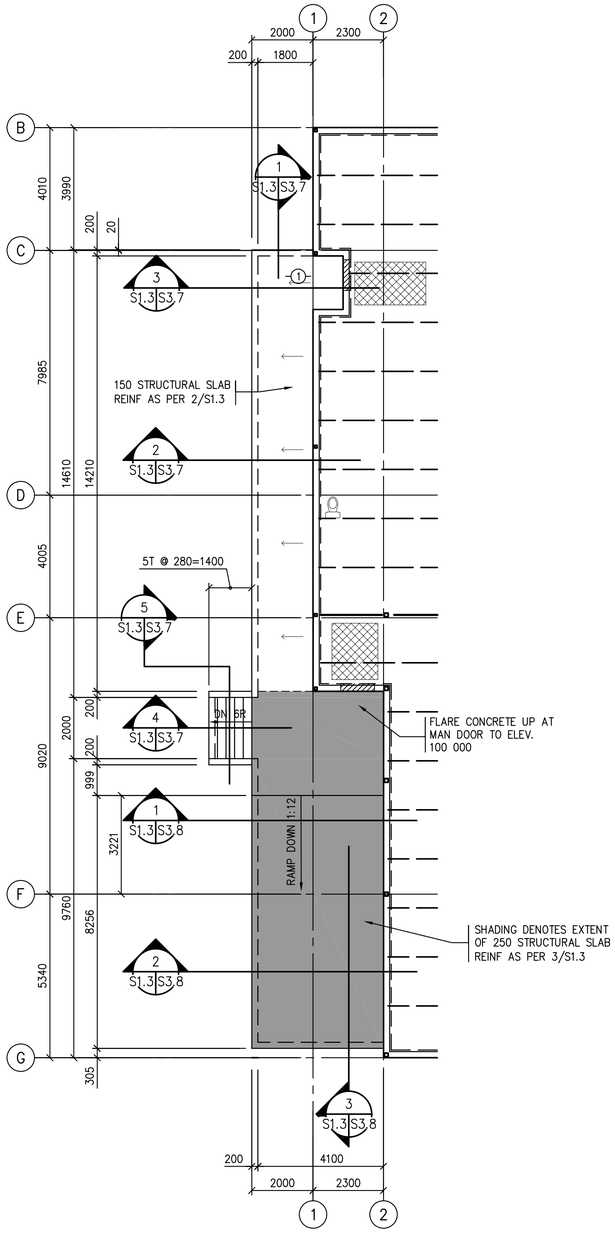
MAIN FLOOR FRAMING PLAN

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	S1.2	0

PWGSC – A1 – 841X594

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

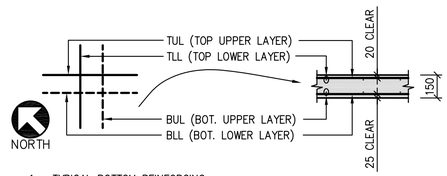
A000



NORTH

1 S1.3 S1.3 PLAN–EXTERIOR ENTRANCE SLAB

1 : 100



1. TYPICAL BOTTOM REINFORCING
   BUL: 10M @ 400 ϕ/c
   BLL: 15M @ 400 ϕ/c

   ALL TYPICAL BOTTOM REINFORCING TO BE DOWELED 150mm TO FOUNDATIONS TO MATCH. EXTEND 600. AT THICKENED AREAS, DROP BOTTOM REINF. AND LAP MIN. 600 WITH TYPICAL BOTTOM BARS.

2. ADDITIONAL BOTTOM REINFORCING

   ON PLAN DENOTES ADDITIONAL 1– WAY BOTTOM REINFORCING PLACED WITHIN TYPICAL BOTTOM REINFORCING LAYERS. SPACE BARS EQUALLY ABOUT SUPPORT ℄'s. EXTEND BARS TO SUPPORT ℄'s.

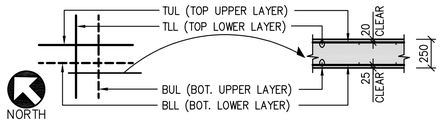
   DENOTES BAR DIRECTION.

   (1) 4–15M @ 400 ϕ/c

3. TYPICAL TOP REINFORCING
   TUL: 15M @ 300 ϕ/c
   TLL: 10M @ 300 ϕ/c

   ALL TYPICAL TOP REINFORCING TO BE DOWELED TO FOUNDATIONS WITH HOOKED DWLS TO MATCH. EXTEND 900.

2 S1.3 S1.3 150 STRUCTURAL SLAB REINFORCING DETAIL



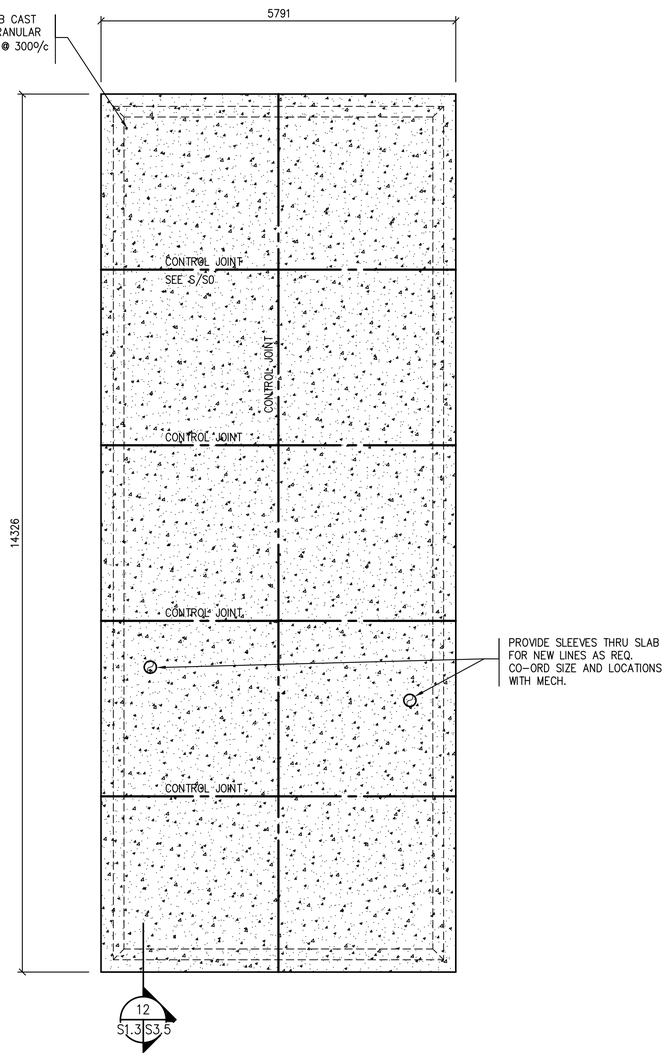
1. TYPICAL BOTTOM REINFORCING
   BUL: 10M @ 300 ϕ/c
   BLL: 10M @ 300 ϕ/c

   ALL TYPICAL BOTTOM REINFORCING TO BE DOWELLED 150mm TO FOUNDATIONS TO MATCH. EXTEND 600. AT THICKENED AREAS, DROP BOTTOM REINF. AND LAP MIN. 600 WITH TYPICAL BOTTOM BARS.

2. TYPICAL TOP REINFORCING
   TUL: 15M @ 400 ϕ/c
   TLL: 15M @ 400 ϕ/c

   ALL TYPICAL TOP REINFORCING TO BE DOWELLED TO FOUNDATIONS WITH HOOKED DOWELS TO MATCH. EXTEND 900.

3 S1.3 S1.3 200 STRUCTURAL SLAB REINFORCING DETAIL



4 S1.3 S1.3 PROPANE FARM SLAB

1 : 50

NOTES:
1. CONFIRM SIZE, LOCATION AND ELEVATION WITH ARCH.

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EXTERIOR ENTRANCE SLAB

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R-10-2017	S1.3	0

PWGSC – A1 – 841X594

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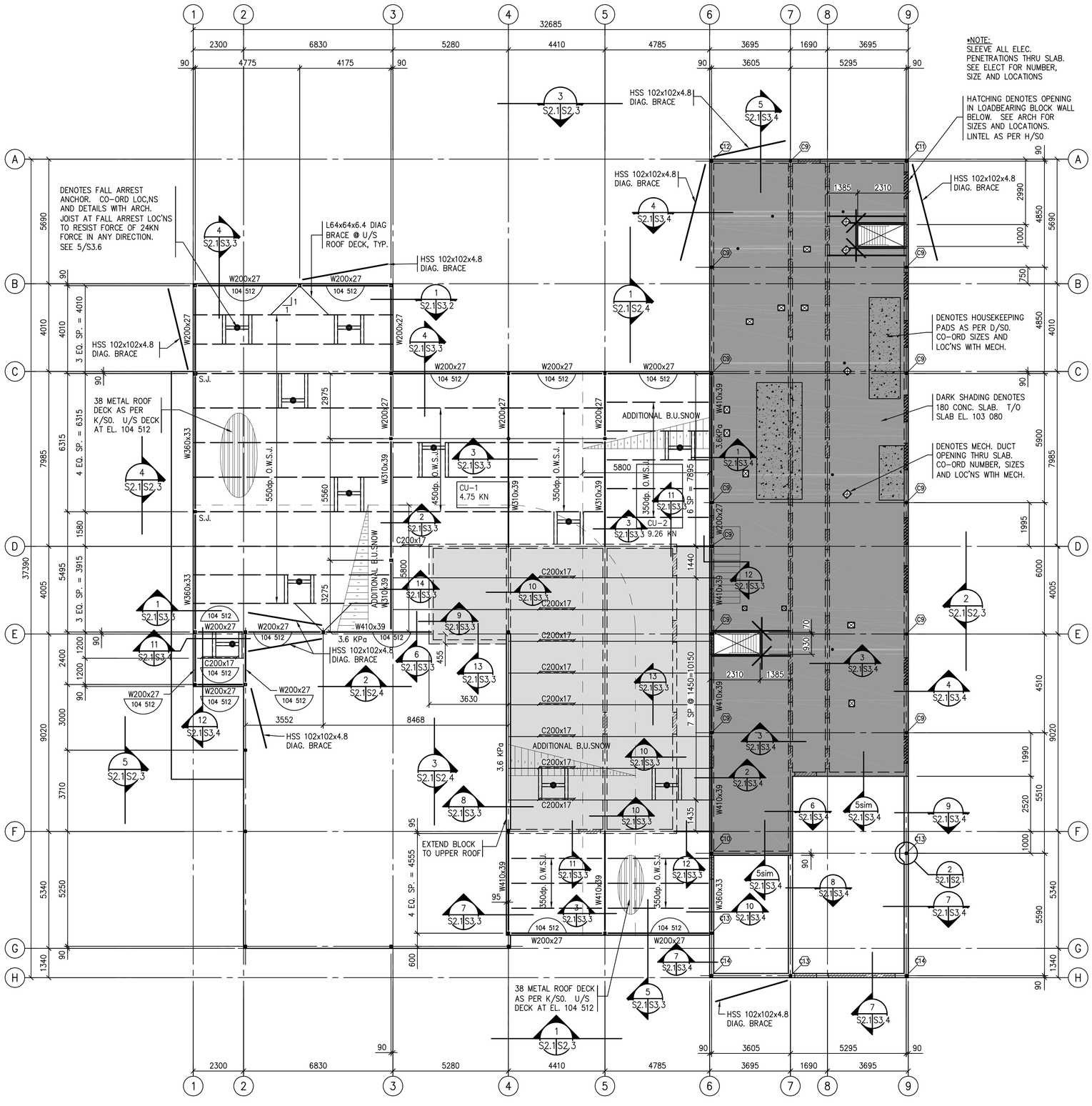
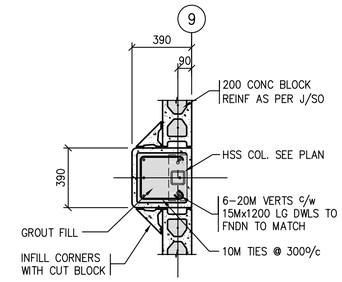
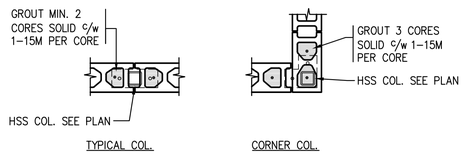
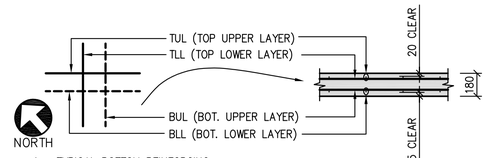




2 S2.1|S2.1 PILASTER DETAIL 1 : 20



3 S2.1|S2.1 WALL REINF. BELOW COLUMNS 1 : 20



1. TYPICAL BOTTOM REINFORCING
   BUL: 10M @ 400C/C
   BLL: 15M @ 400C/C

2. TYPICAL TOP REINFORCING
   TUL: 15M @ 300C/C
   TLL: 10M @ 300C/C

4 S2.1|S2.1 180 STRUCTURAL SLAB REINFORCING 1 : 20

NOTES:

1. TYPICAL ROOF CONSTRUCTION TO BE
   38dp x 0.91 ROOF DECK AS SPECIFIED OVER O.W.S.J.
   100 JOIST SEAT, TYP.
   U/S STEEL ROOF DECK AT ELEVATION 104 512 UNLESS NOTED OTHERWISE.

2. ROOF DESIGN LOADS
   DEAD LOAD = 1.0 kPa
   SNOW LOAD = 1.9 kPa (PLUS BUILT-UP SNOW LOAD INDICATED ON PLAN AS PER N.B.C.C.)
   COLLATERAL LOAD = 0.25kPa

3. TOP OF STEEL AT ELEVATION 104 412 UNLESS NOTED OTHERWISE THUS.

4. ROOF CONSTRUCTION DENOTED BY LIGHT SHADING TO BE:
   102 CONCRETE SLAB ON METAL DECK, REFER TO TYPICAL SLAB ON DECK DETAIL N/SO
   STEEL FRAMING AS NOTED ON PLAN.
   REFER TO TYPICAL DECK WELD DETAIL ON DRAWING S0.

5. T/O CONCRETE SLAB ON DECK @ ELEVATION 104 550.

6. T/O STEEL AT CONC. SLAB ON DECK AT ELEVATION 104 448 U.N.O.

7. ROOF DESIGN LOADS @ SLAB ON DECK (LIGHT SHADE)
   LIVE LOAD = 1.9 KPa
   STRUCTURAL FRAMING & SLAB DEAD LOAD = 2.6 KPa
   ROOF DEAD LOAD = 1.0 KPa
   COLLATERAL LOAD = 0.25 kPA

8. SERVICE SPACE FLOOR CONSTRUCTION DENOTED BY DARK SHADING TO BE:
   180 REINFORCED CONCRETE SLAB
   REFER TO TYPICAL STRUCTURAL SLAB REINFORCING DETAIL 3/S2.1

9. T/O SERVICE SPACE CONCRETE SLAB @ ELEVATION 103 080.

10. FLOOR DESIGN LOADS (DARK SHADE)
    LIVE LOAD = 4.8 KPa
    DEAD LOAD (SLAB) = 4.2 KPa
    COLLATERAL LOAD = 0.25 KPa

11. COLUMNS DENOTED ON PLAN THUS ⬡ SEE TYPICAL COLUMN & BASE PLATE SCHEDULE ON DRAWING S2.2

12. REFER TO DRAWING S-0 FOR MASONRY LINTEL SCHEDULE.

13. ROOF FRAMING AND CONNECTIONS INCLUDING DECKING MATERIAL TO BE DESIGNED FOR 0.75 KPa UPLIFT.

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LOWER ROOF FRAMING PLAN

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R-10-2017	S2.1	0

PWGSC – A1 – 841X594

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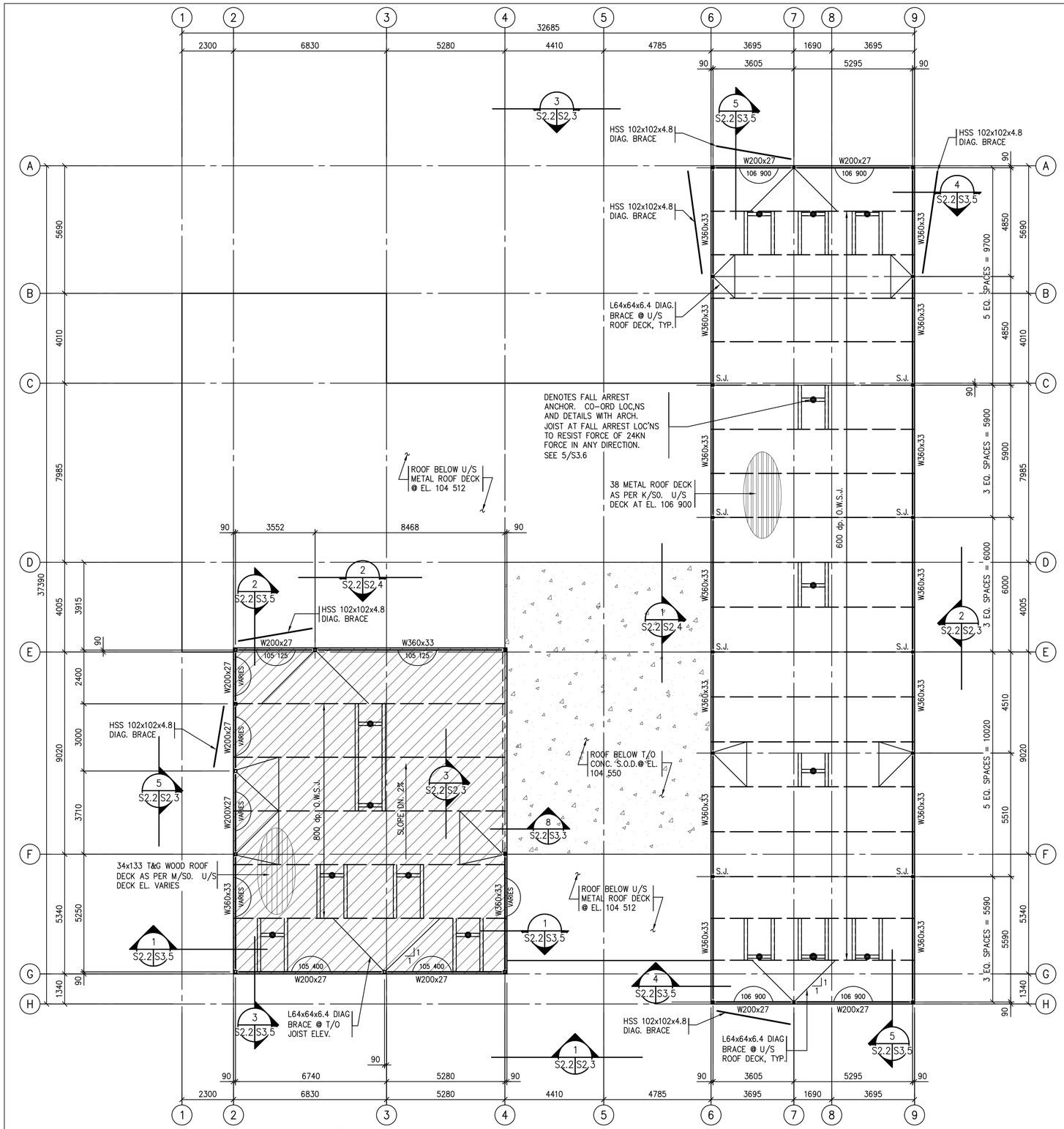
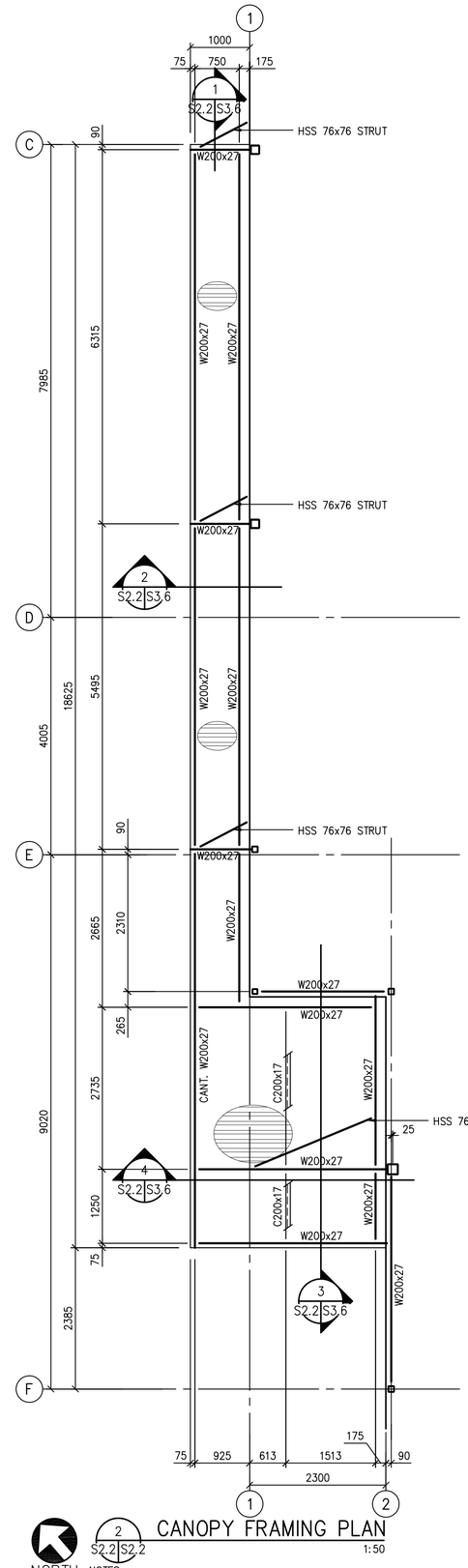


1 UPPER ROOF FRAMING PLAN
S2.2 S2.2
1 : 100

NORTH

NOTES:

1. ROOF CONSTRUCTION TO BE
   38dp x 0.91 ROOF DECK AS SPECIFIED OVER O.W.S.J. (100 JOIST SEAT, TYP.)
   U/S ROOF DECK ELEVATION AT ELEV. 106 900.
2. ROOF DESIGN LOADS AT METAL DECK
   DEAD LOAD = 1.0 kPa
   SNOW LOAD = 1.9 kPa (PLUS BUILT-UP SNOW LOAD AS PER N.B.C.C.)
   COLLATERAL LOAD = 0.25 kPa
3. ROOF FRAMING AND CONNECTIONS INCLUDING DECKING MATERIAL TO BE DESIGNED TO RESIST 0.75 KPa UPLIFT LOAD.
4. TOP OF STEEL AT ELEVATION 106 800 UNLESS NOTED OTHERWISE THUS:
5. "S.J." DENOTES STRUT JOIST.
6. ROOF CONSTRUCTION DENOTED BY HATCHING TO BE
   89 WOOD ROOF DECKING OVER O.W.S.J. (100 JOIST SEAT)
   U/S DECK AT ELEV. 106 900.
7. ROOF DESIGN LOADS AT WOOD DECK (HATCHED)
   DEAD LOAD = 1.2 kPa @ WOOD DECK
   SNOW LOAD = 1.90 kPa (PLUS BUILT-UP SNOW LOAD AS INDICATED ON PLAN AS PER N.B.C.C.)
   COLLATERAL LOAD = 0.25 kPa
8. TOP OF STEEL AT WOOD ROOF AT ELEV. VARIES UNLESS NOTED OTHERWISE.



2 CANOPY FRAMING PLAN
S2.2 S2.2
1:50

NORTH

NOTES:

1. CANOPY DESIGN LOADS
   DEAD LOAD = 1.0 kPa
   SNOW LOAD = 1.9 kPa (PLUS BUILT-UP SNOW LOAD AS PER N.B.C.C.)
   COLLATERAL LOAD = 0.25 kPa
2. TOP OF CANOPY STEEL AT ELEVATION 106 800 UN.O.

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UPPER ROOF FRAMING PLAN

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PWGSC – A1 – 841X594

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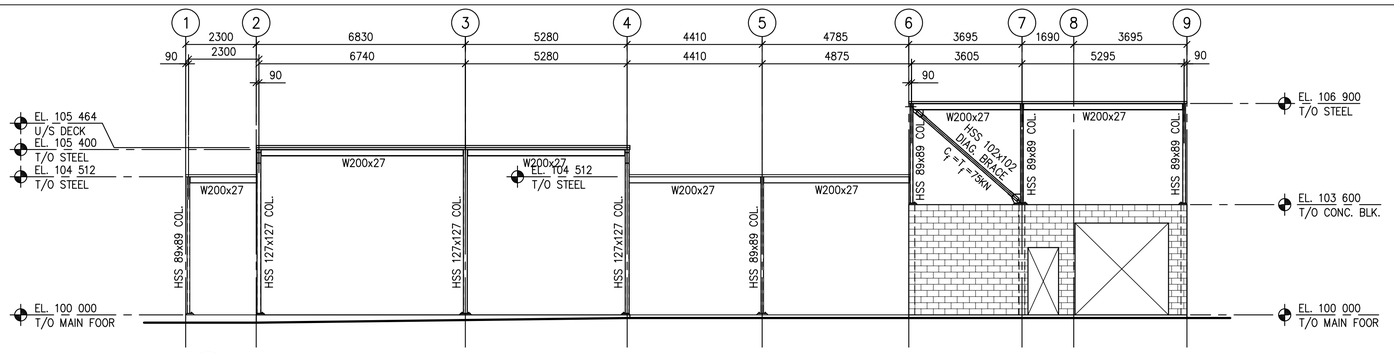
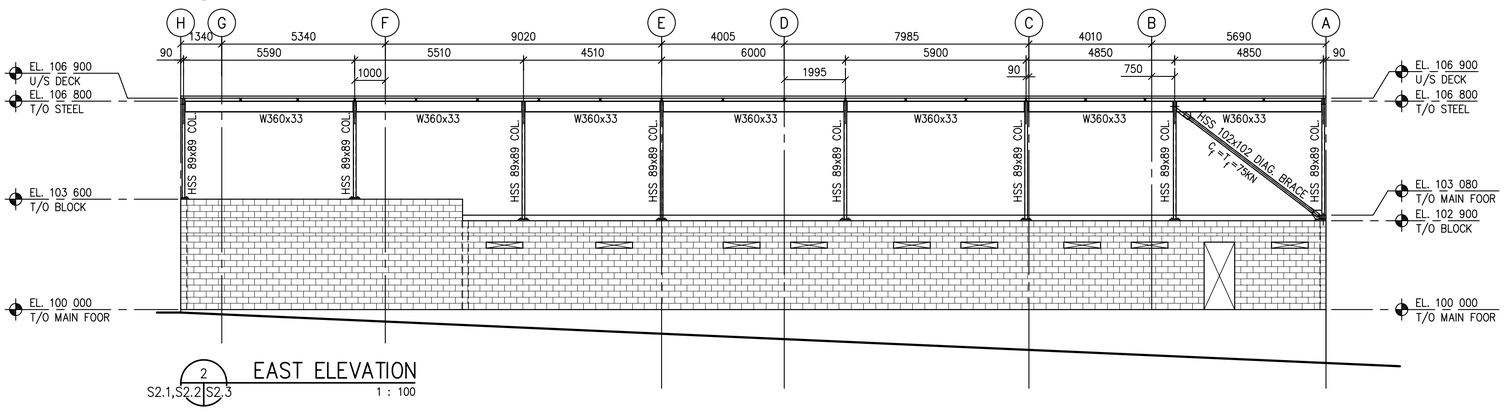
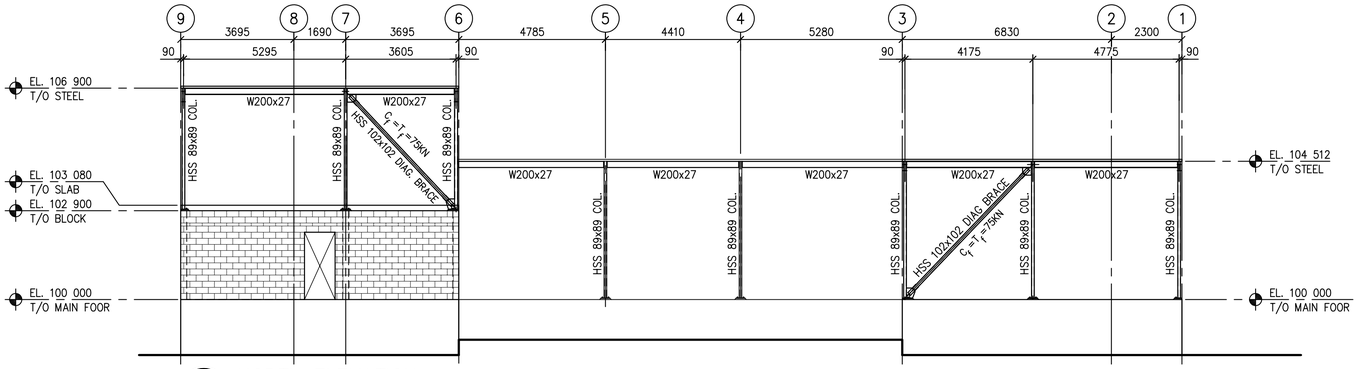


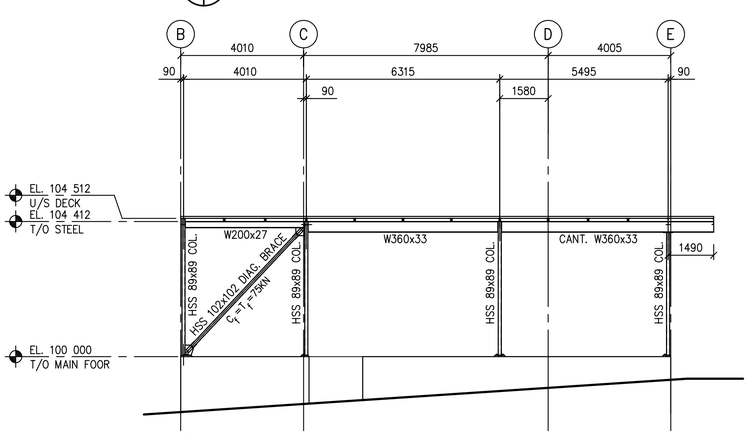
1 SOUTH ELEVATION
S2.1,S2.2 S2.3 1 : 100



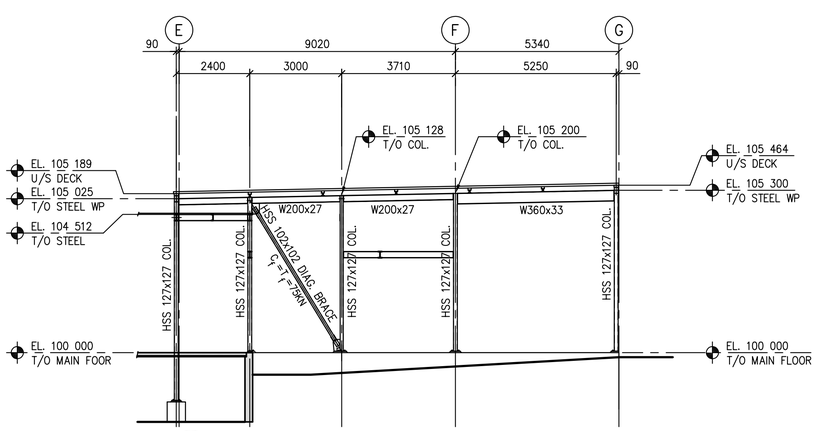
2 EAST ELEVATION
S2.1,S2.2 S2.3 1 : 100



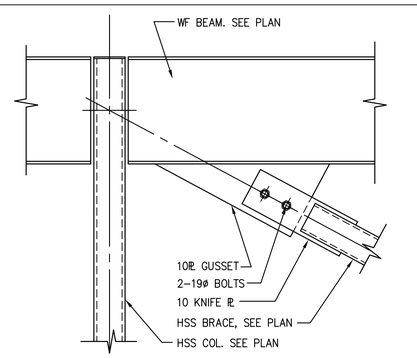
3 NORTH ELEVATION
S2.1,S2.2 S2.3 1 : 100

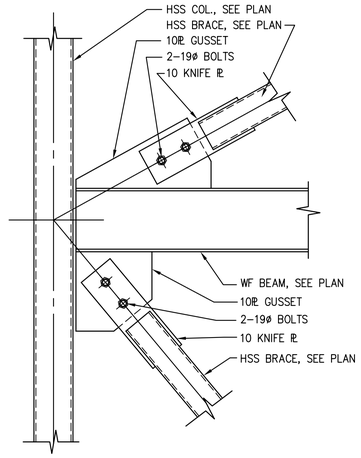


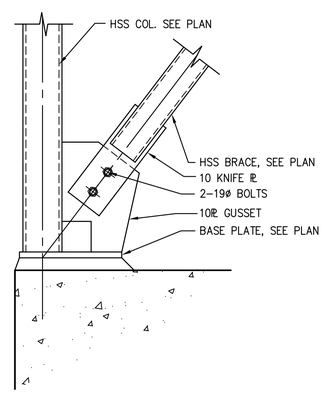
4 PARTIAL WEST ELEVATION – GRID 1
S2.1 S2.3 1 : 100

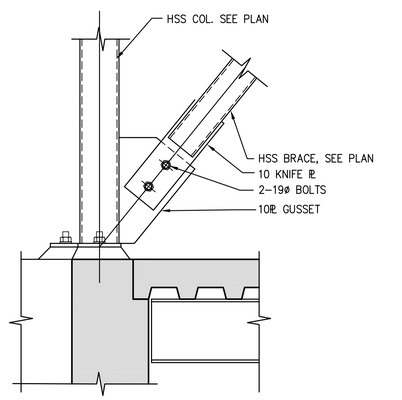


5 PARTIAL WEST ELEVATION – GRID 2
S2.1,S2.2 S2.3 1 : 100









6 TYPICAL BRACING DETAILS
S2.3 S2.3 1 : 10

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FRAMING ELEVATIONS

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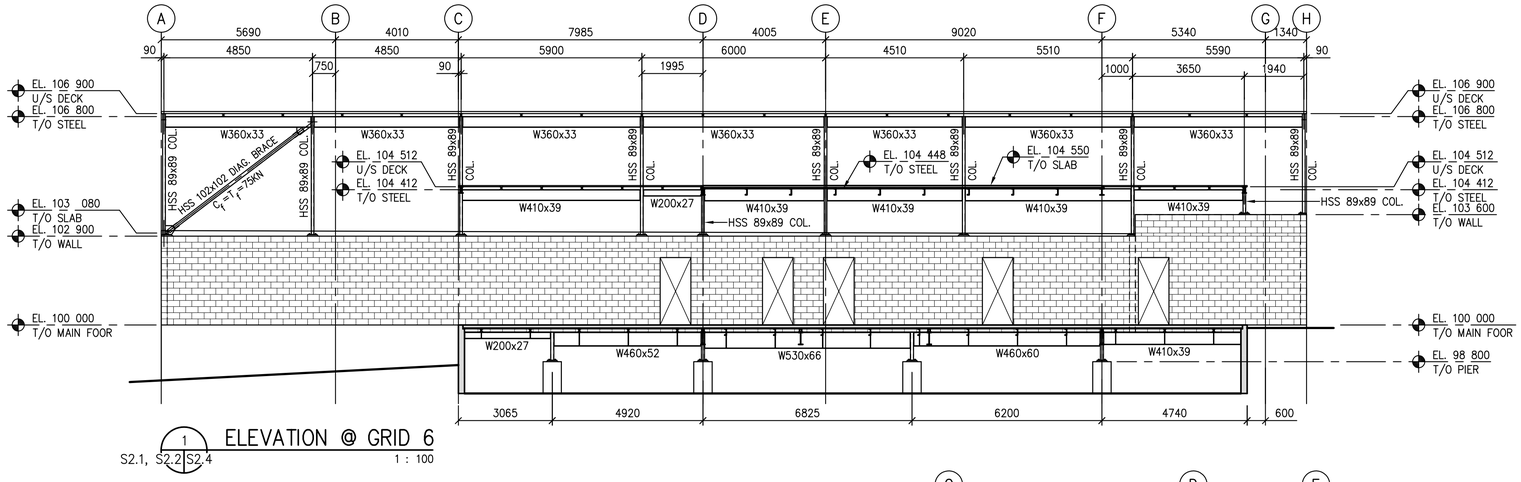
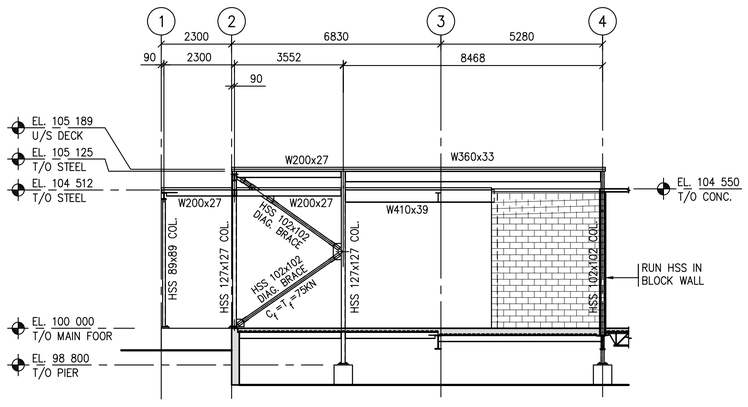
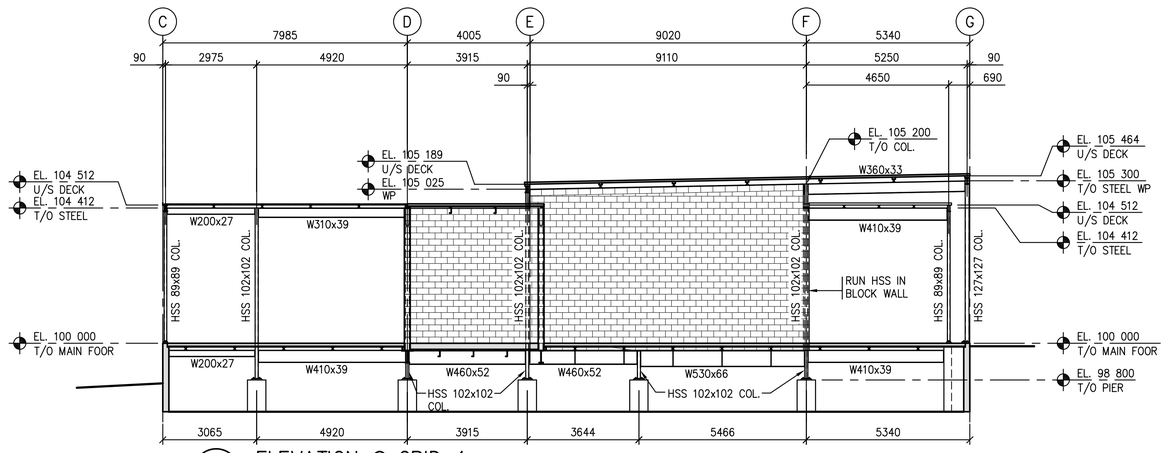


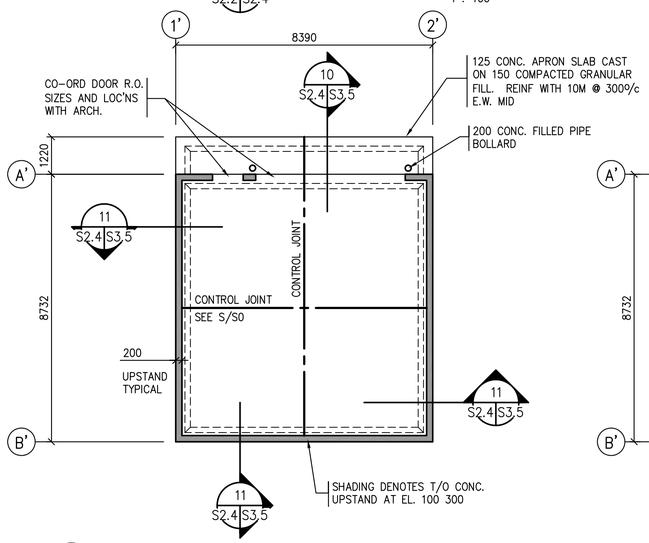
1 ELEVATION @ GRID 6
S2.1, S2.2 S2.4 1 : 100



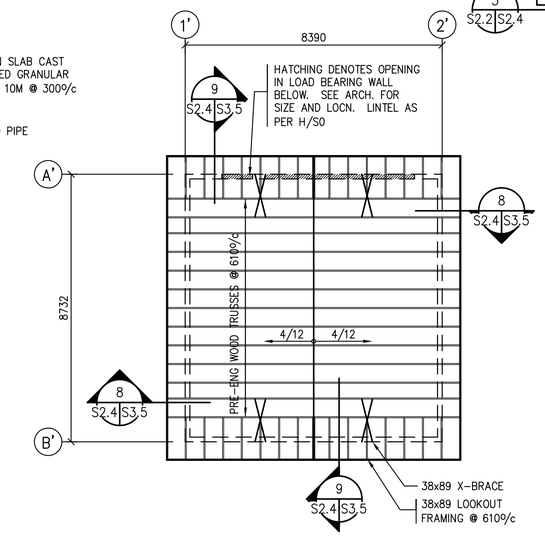
2 ELEVATION @ GRID E
S2.2 S2.4 1 : 100



3 ELEVATION @ GRID 4
S2.2 S2.4 1 : 100



4 OUT BUILDING FOUNDATION PLAN
S2.4 S2.4 1 : 100



5 OUT BUILDING ROOF FRAMING PLAN
S2.4 S2.4 1 : 100

NOTES:

1. REFER TO ARCH. SITE PLAN FOR OUT BUILDING LOCATION AND ORIENTATION.
2. FLOOR CONSTRUCTION TO BE:
   125 CONCRETE SLAB c/w 10M @ 300 o.c. E.W. MID
   50mm SAND LEVELING BED/POLY PROTECTION
   0.15 POLY VAPOUR BARRIER
   150mm COMPACTED GRANULAR FILL.
   PREPARED SUBGRADE
3. T/O SLAB @ ELEVATION 100 000
4. INSTALL 3mm x 25mm dp CONTROL JOINTS IN CONCRETE FLOOR SLAB AS INDICATED ON PLAN. FILL JOINT WITH SEALANT OVER ETHAFOAM BACKUP ROD.
5. WALL CONSTRUCTION TO BE:
   EXTERIOR – 38x140 STUDS @ MAX. 406 o.c., SPF#2 OR BETTER 10mm SHEATHING
   38x140 BLOCKING @ MAX. 1220 o.c. (FOR WALLS OVER 2464mm)

NOTES:

1. ROOF CONSTRUCION FOR OUT BUILDING TO BE:
   12mm SHEATHING (NAILED) c/w METAL H-CLIPS
   PRE-ENGINEERED WOOD TRUSSES AS NOTED ON PLAN. (MAX. SPACING 610 o.c.) c/w GALVANIZED METAL HURRICANE TIES AT ALL BEARING POINTS.
   TRUSS DESIGN BY TRUSS SUPPLIER.
   ADJUST NUMBER & SPACING AS REQ'D BY DESIGN. CO-ORDINATE AND ADJUST SPACING OF ROOF TRUSSES TO SUIT MECHANICAL. PROVIDE SOLID BLOCKING AT ALL RIDGES, VALLEYS AND HIPS. ROOF TRUSS BRACING SHOWN IS IN ADDITION TO THE REQUIREMENTS OF THE TRUSS SUPPLIER.
2. U/S OF PRE-ENG WOOD TRUSSES @ ELEVATION 103 462 U.N.O.
3. OUT BUILDING ROOF DESIGN LOADS
   TOP CHORD LIVE LOAD = 2.0 KPa
   DEAD LOAD = 0.5 KPa
   BOT. CHORD LIVE LOAD = 0.0 KPa
   DEAD LOAD = 0.4 KPa
   TOTAL LOAD = 2.9 KPa (PLUS APPLICABLE BUILT-UP SNOW AS PER N.B.C.C.)
4. SEE H/S0.1 FOR WOOD LINTEL SCHEDULE.

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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
S.K.

Drawn by/Dessine par
B.R.

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

FRAMING ELEVATIONS
OUT BUILDING

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	S2.4	0

PWGSC – A1 – 841X594

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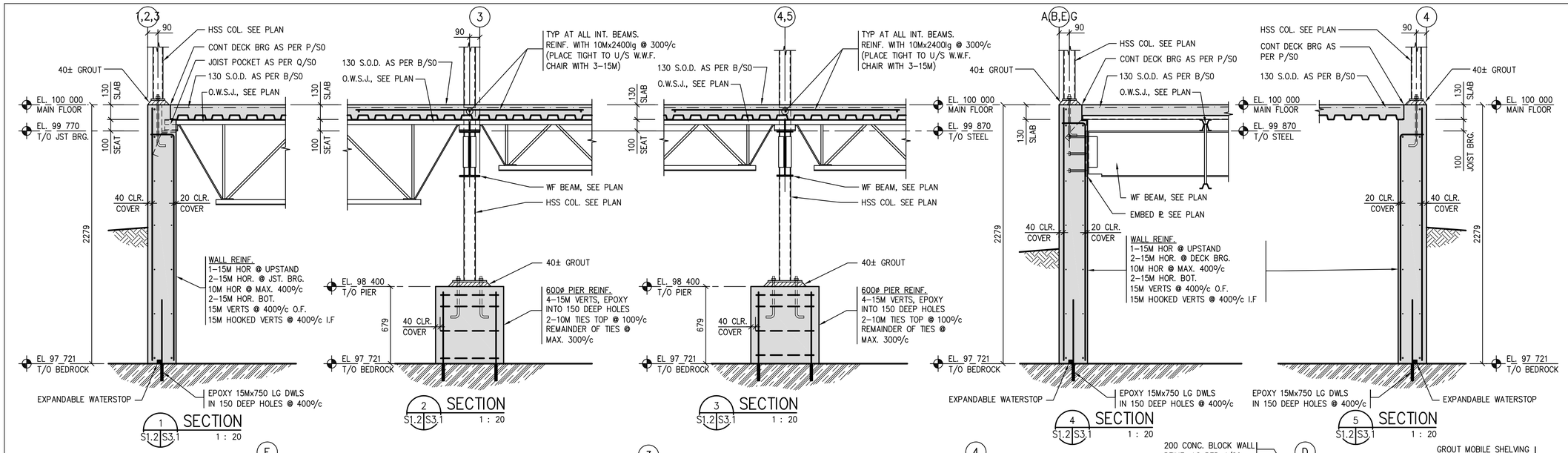

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FOUNDATION DETAILS

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R-10-2017	S3.1	0

PWGSC – A1 – 841X594

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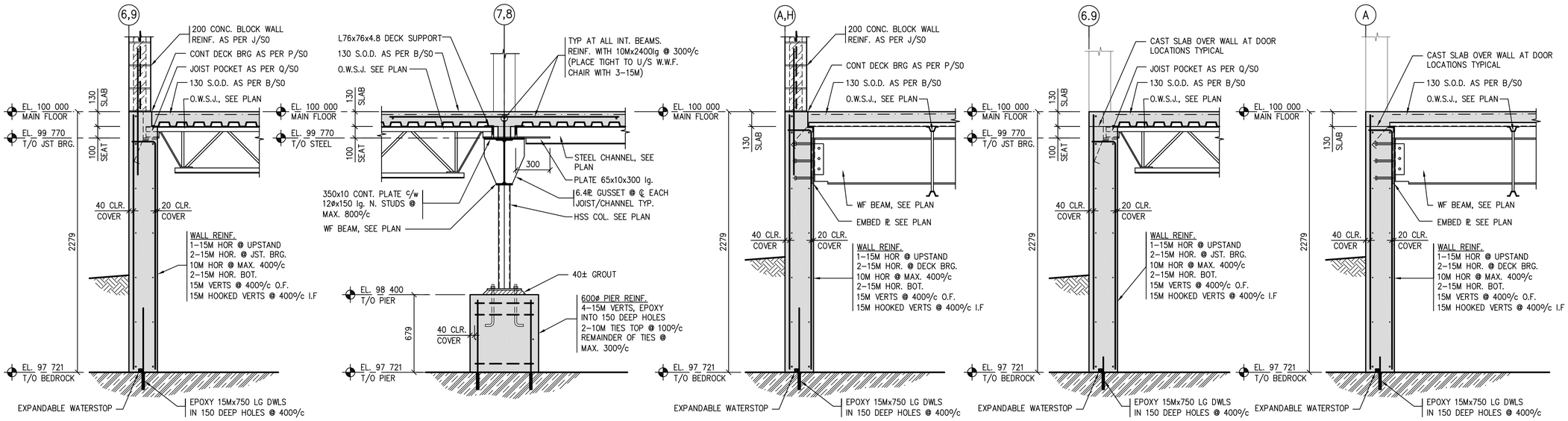

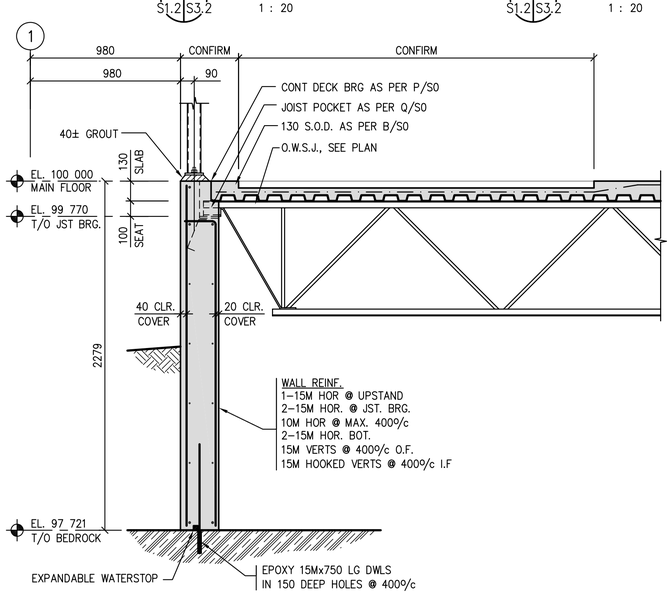

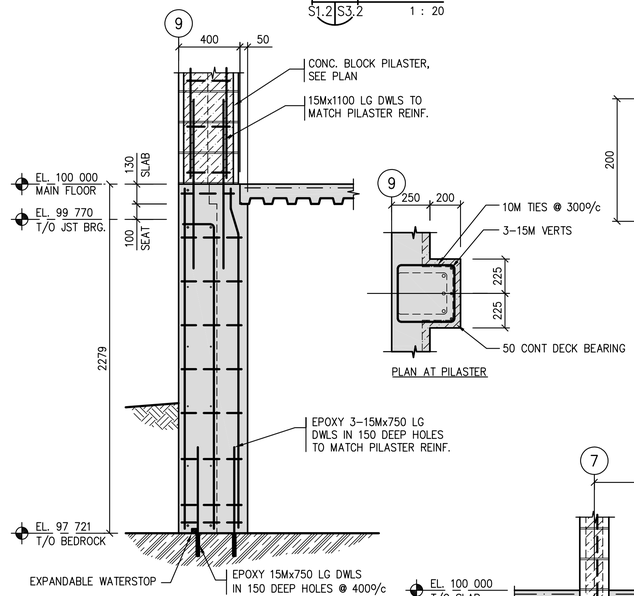

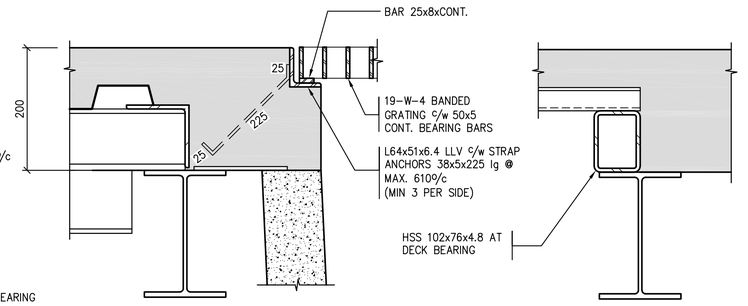

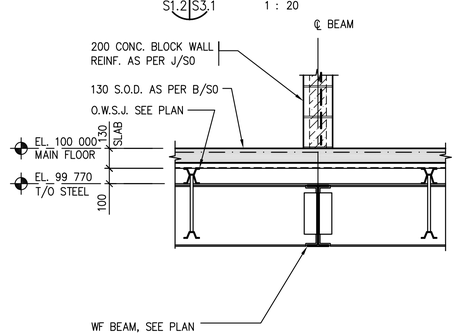

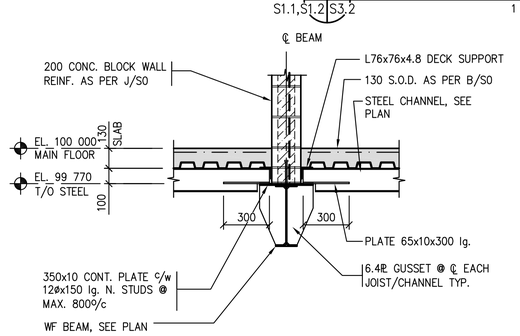

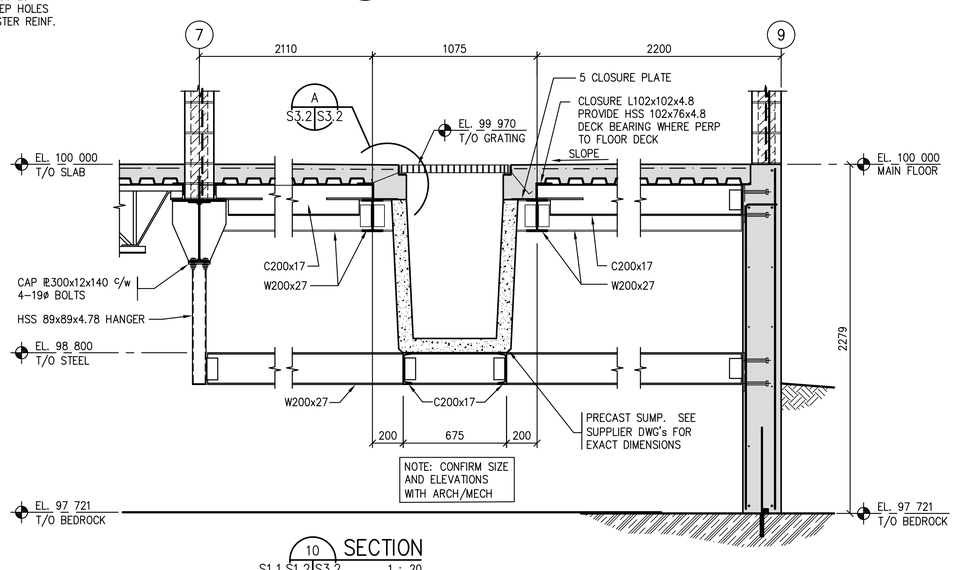

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R-10-2017	S3.2	0

PWGSC – A1 – 841X594

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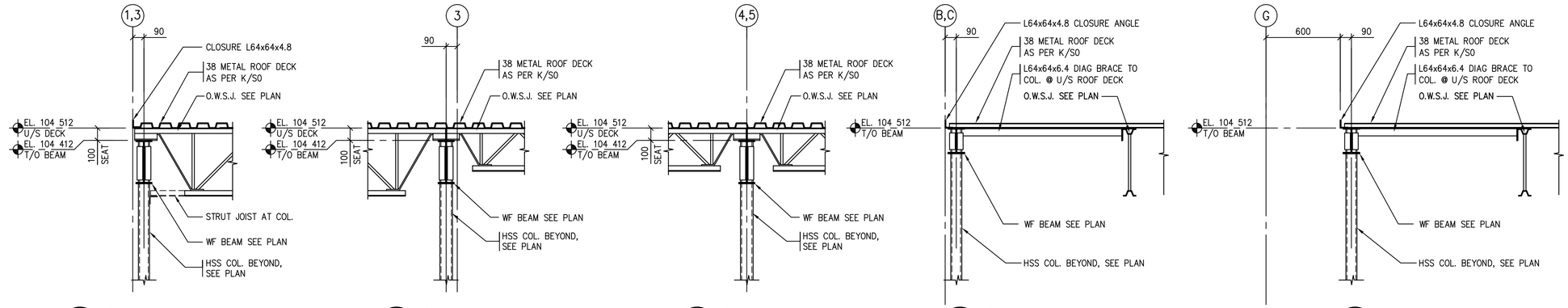

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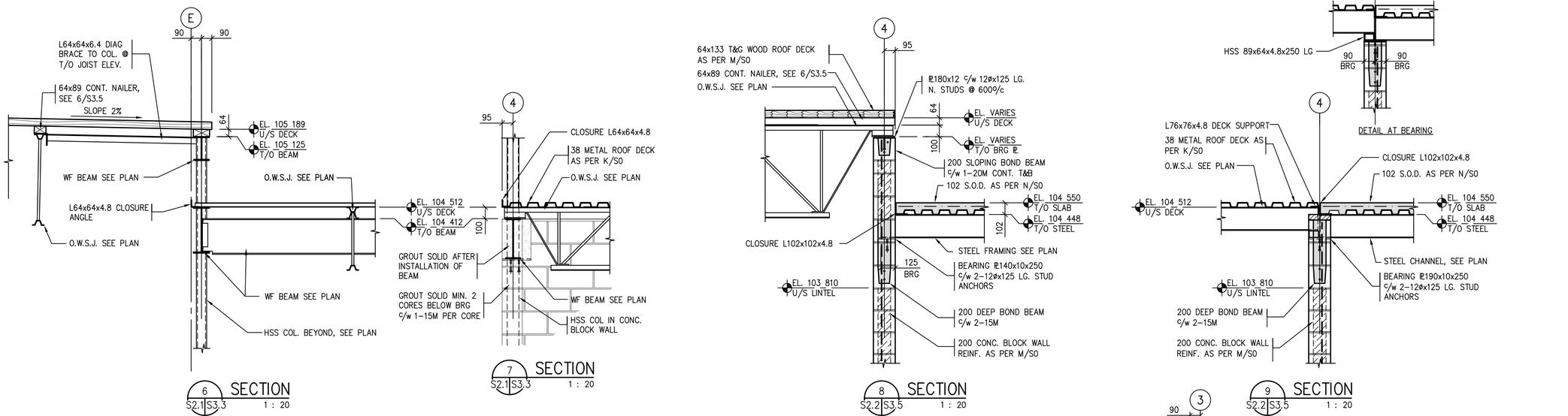

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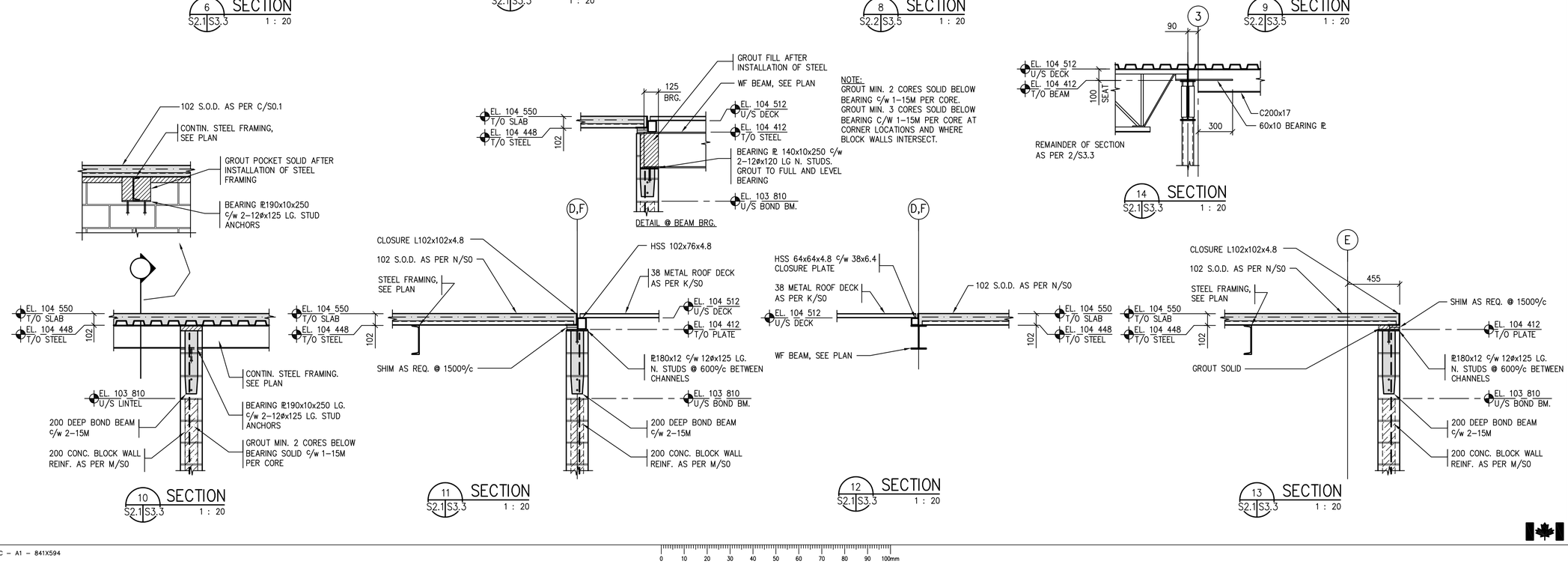

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13 SECTION S2.1 S3.3 1 : 20

14 SECTION S2.1 S3.3 1 : 20

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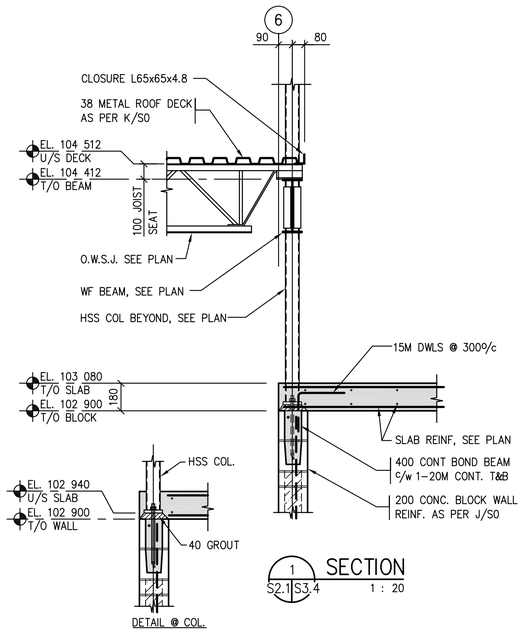

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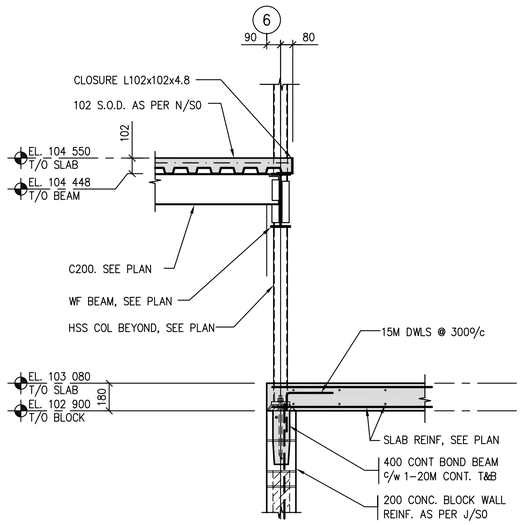

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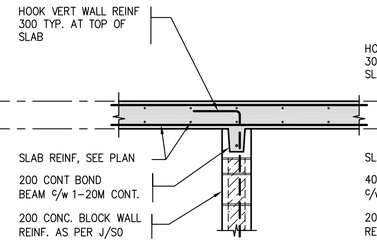

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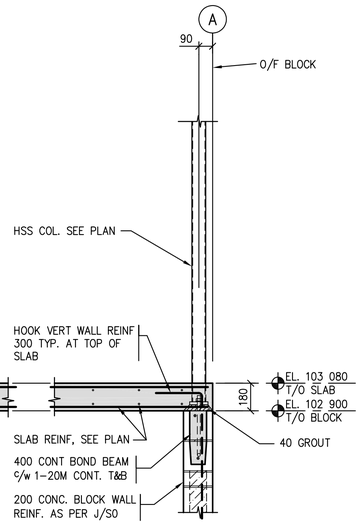

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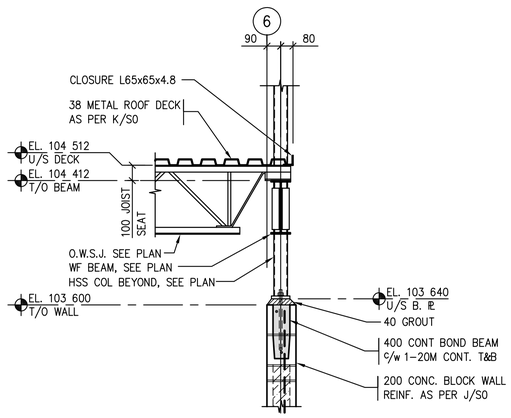

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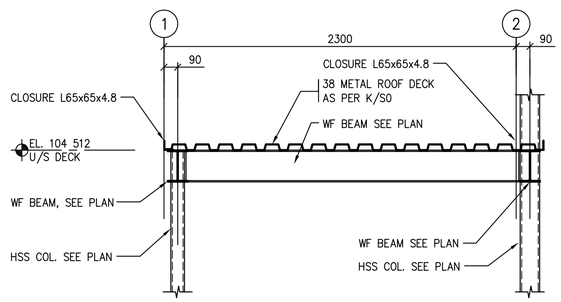

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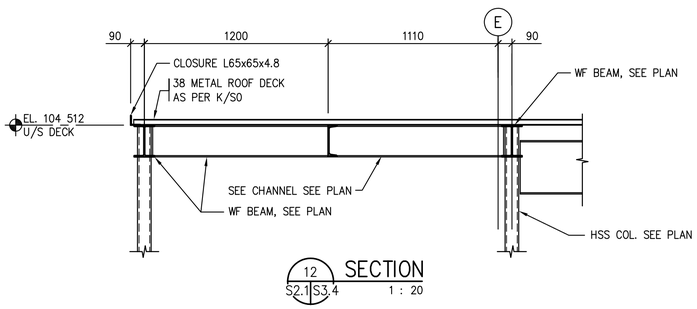

12 SECTION S2.1 S3.4 1 : 20

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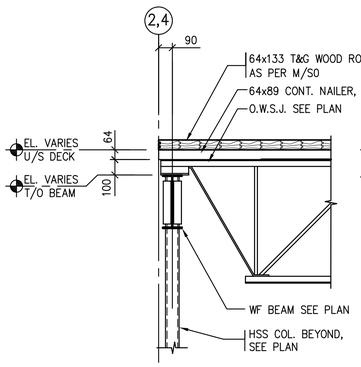

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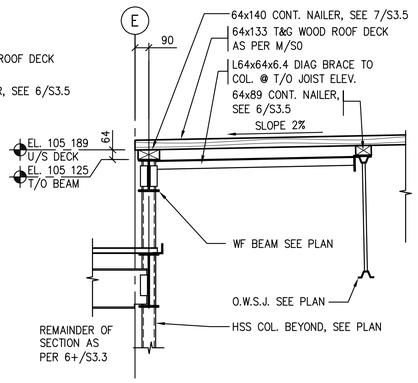

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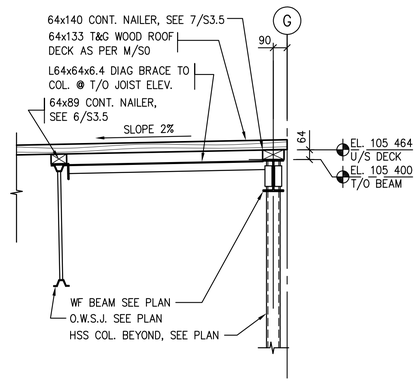

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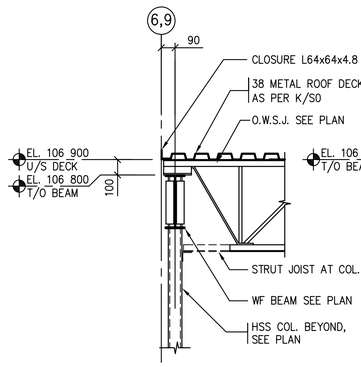

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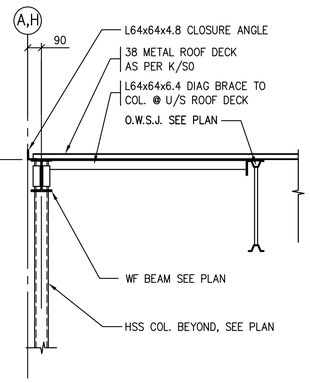

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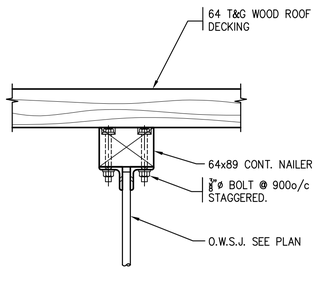

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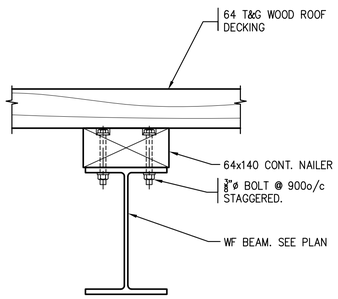

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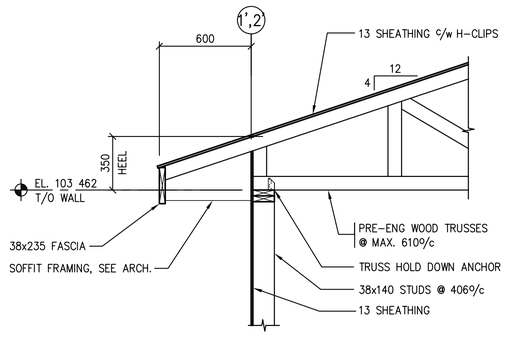

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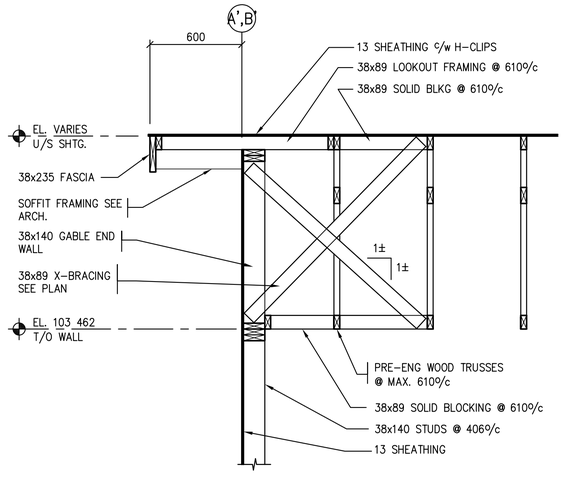

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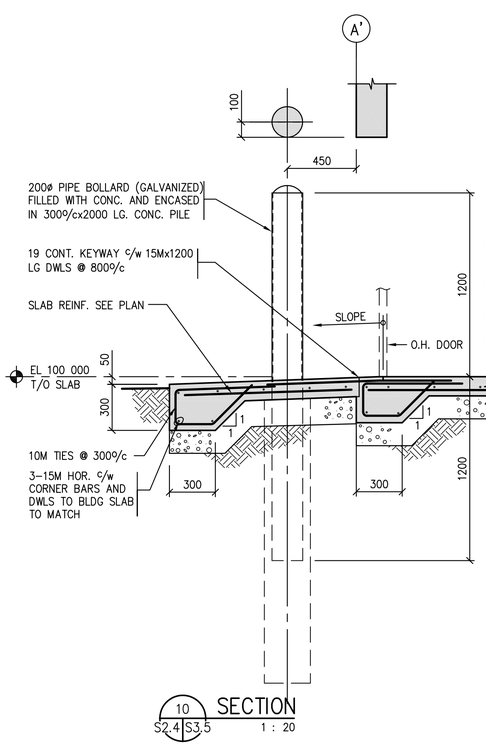

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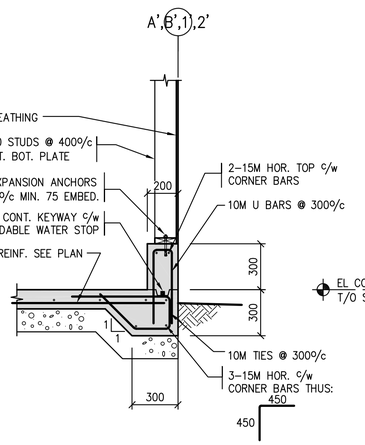

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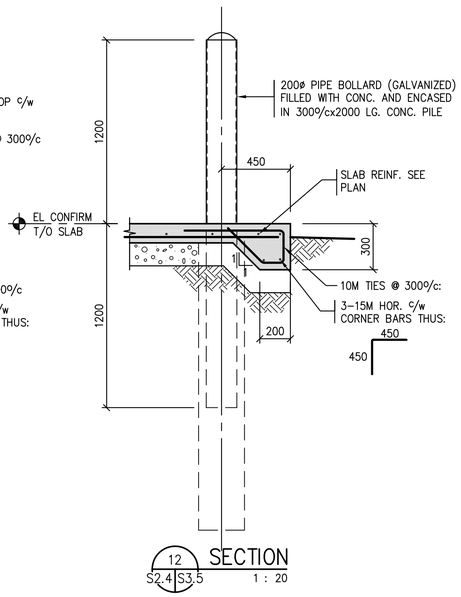

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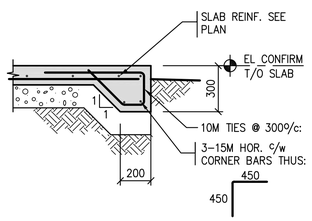

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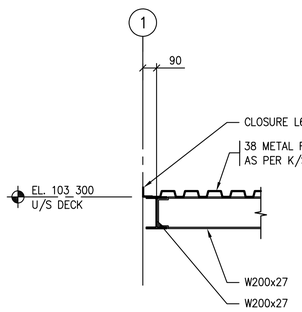
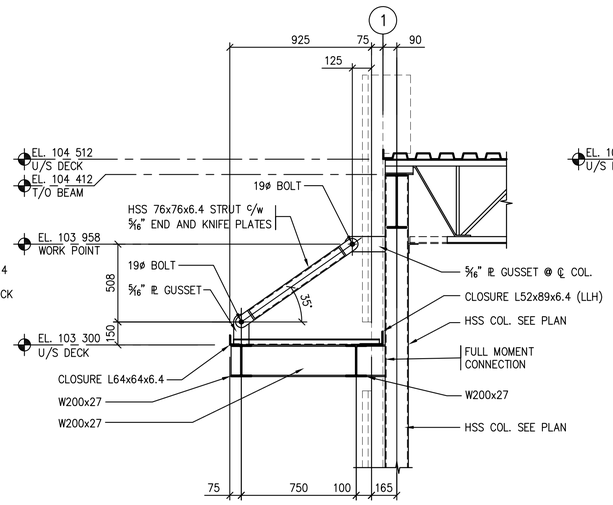


1 SECTION
S2.2 S3.6 1 : 20



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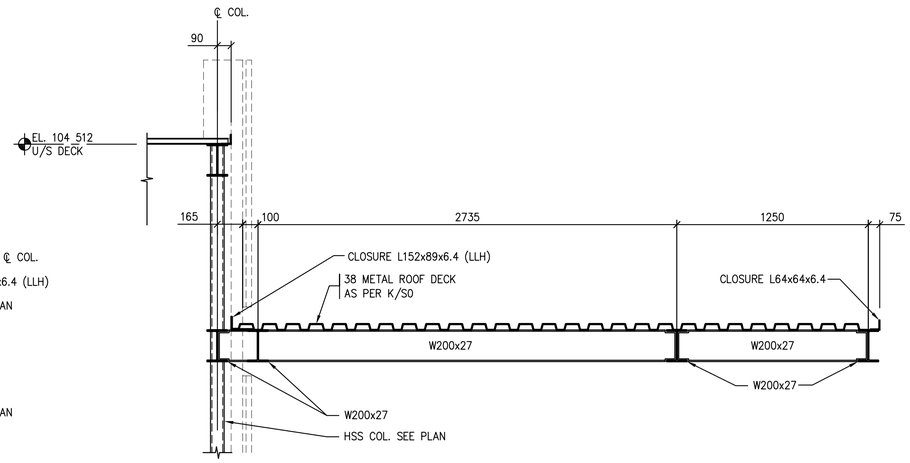
S2.2 S3.6 1 : 20



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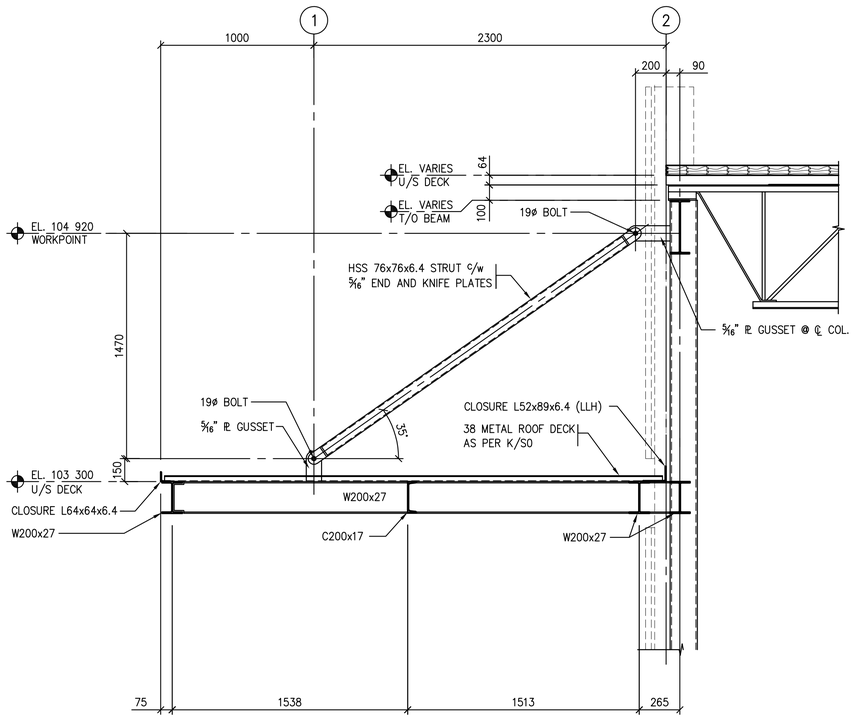

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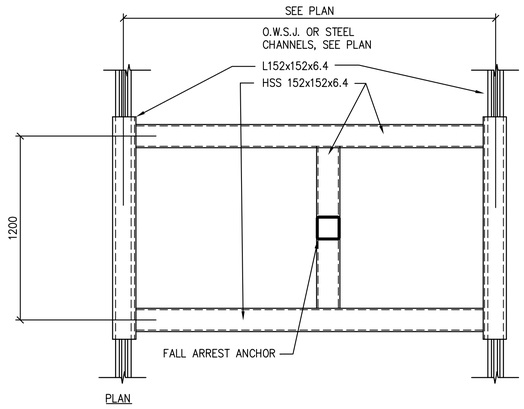

5 TYP. TIE OFF FRAME @ STEEL FRAMING
S2.1,S2.2 S3.6 1 : 20

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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
S.K.

Drawn by/Dessine par
B.R.

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

SECTIONS AND DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	S3.6	0

PWGSC – A1 – 841X594

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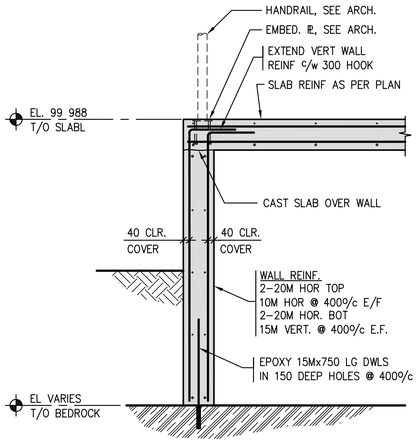
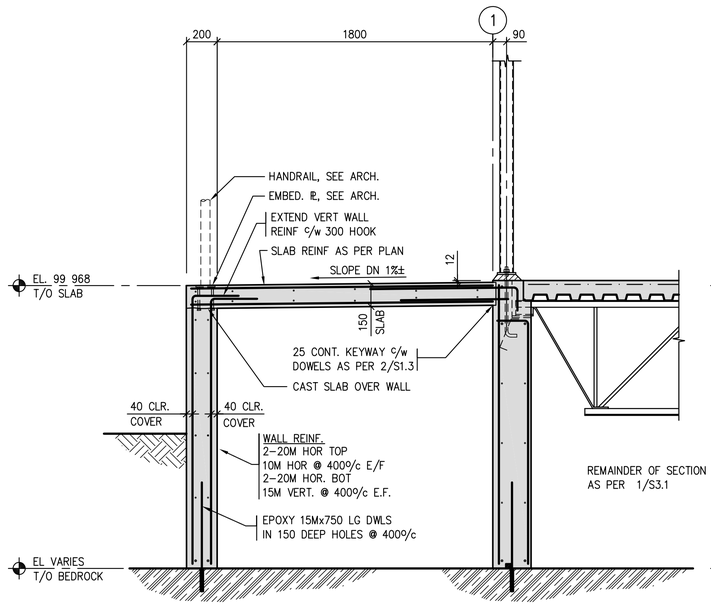
A000



1 SECTION
S1.3 S3.7 1 : 20



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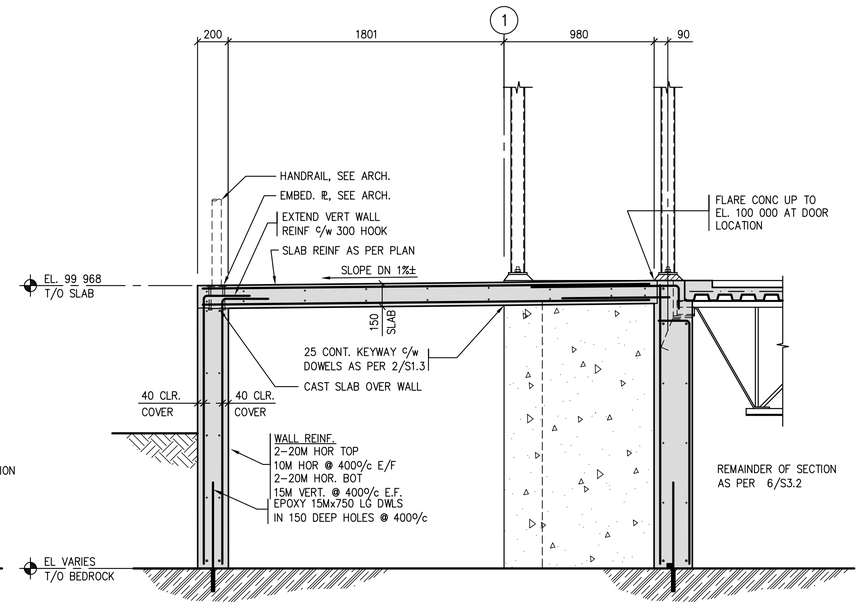
S1.3 S3.7 1 : 20



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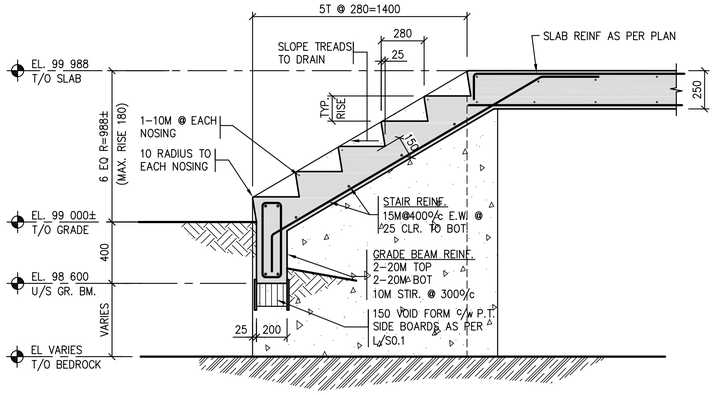
S1.3 S3.7 1 : 20



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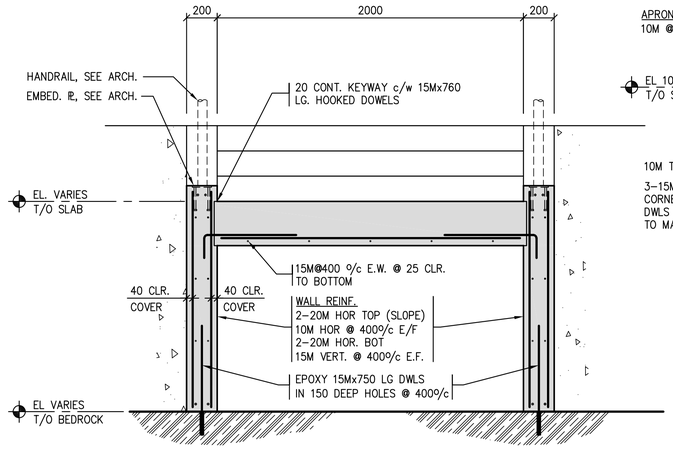
S1.3 S3.7 1 : 20



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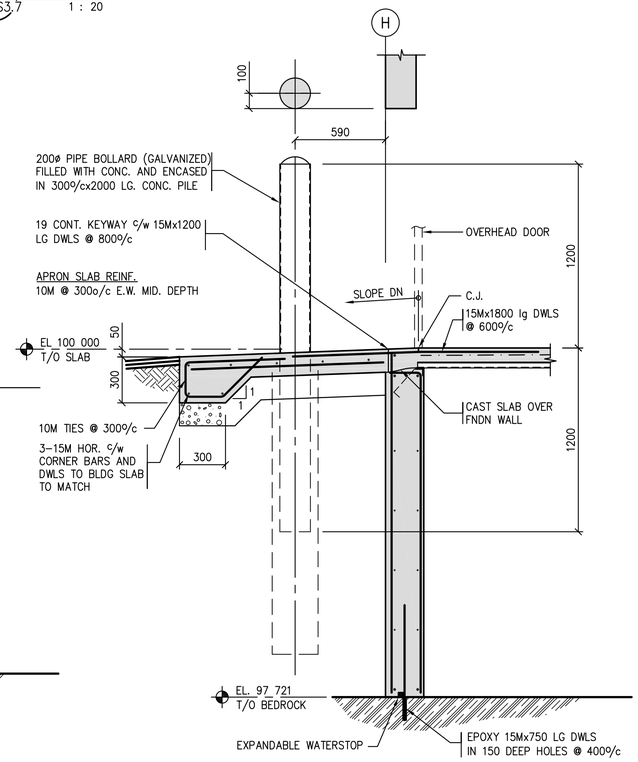

6 SECTION @ APRON SLAB
S1.3 S3.7 1 : 20

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NEW POLICE BUILDING

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SECTIONS AND DETAILS

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R-10-2017	S3.7	0

PWGSC – A1 – 841X594

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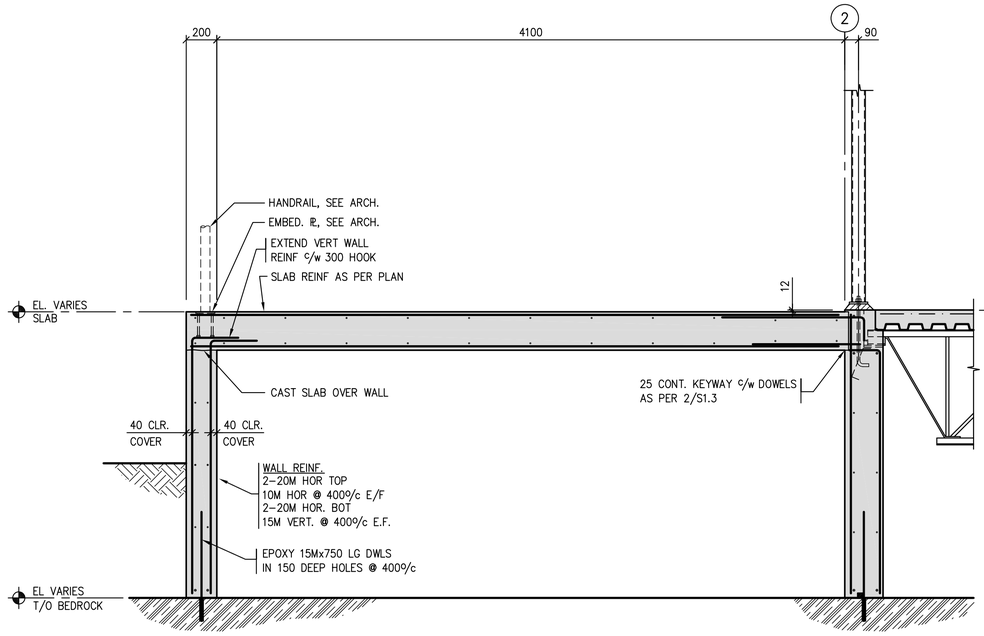
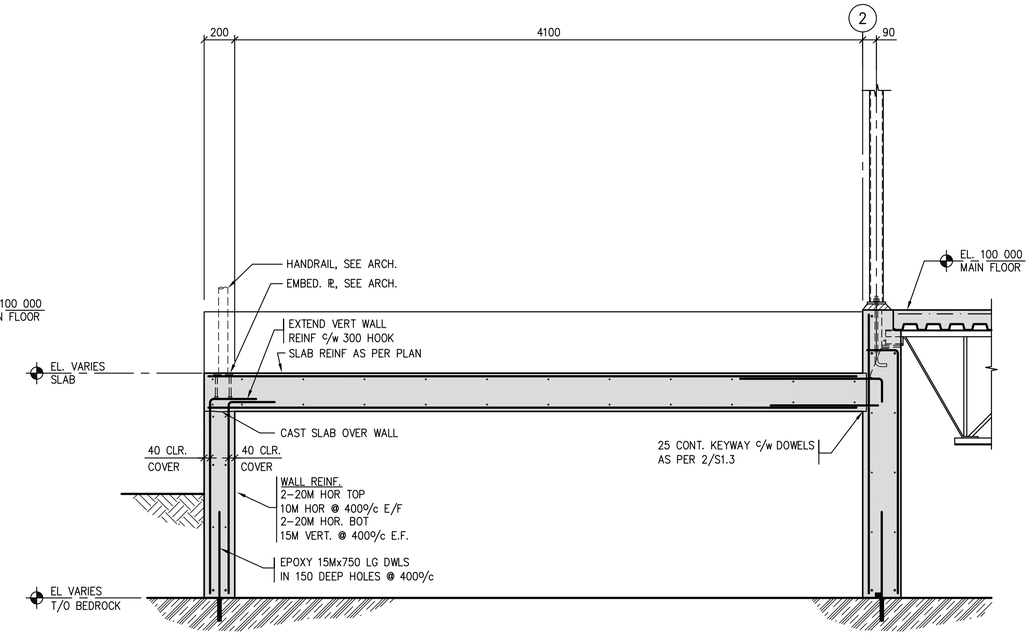


1 SECTION
S1.3 S3.8 1 : 20



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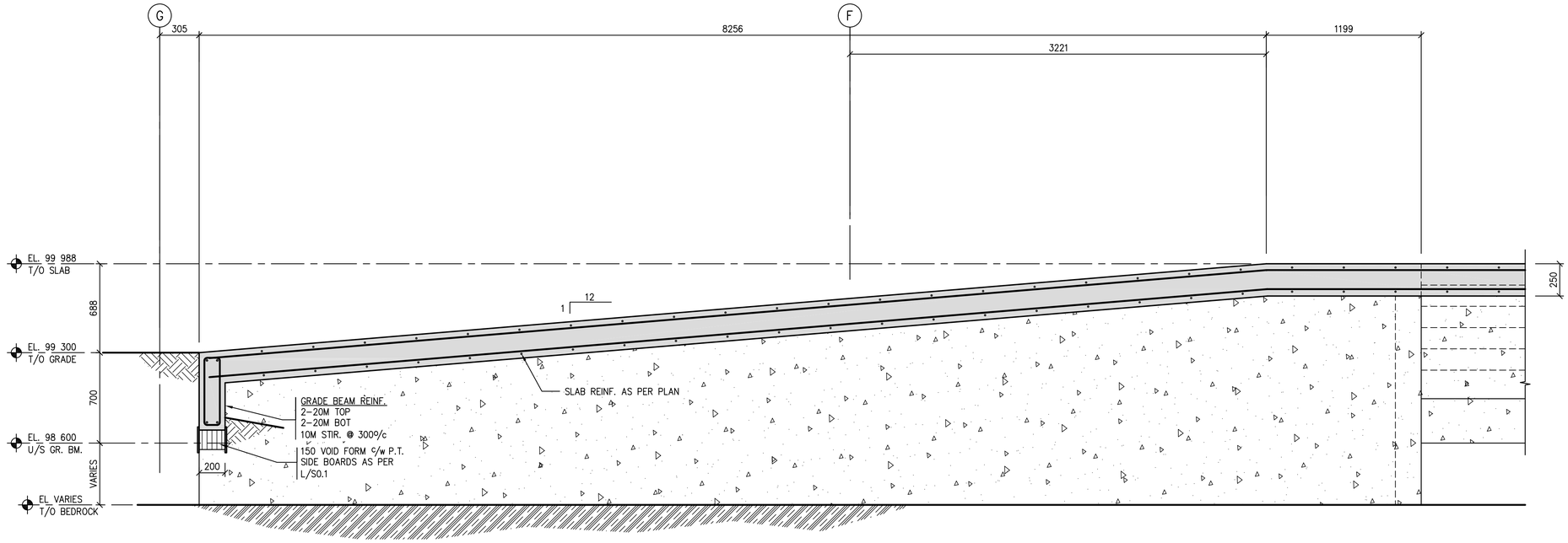

3 SECTION
S1.3 S3.8 1 : 20

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PWGSC – A1 – 841X594

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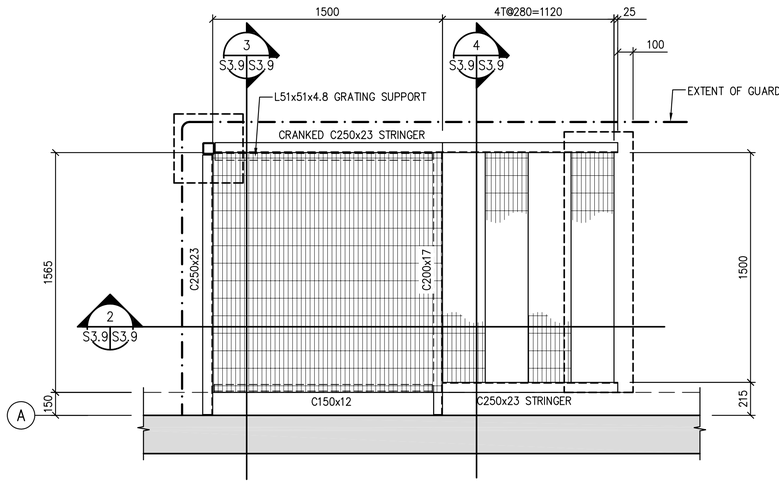
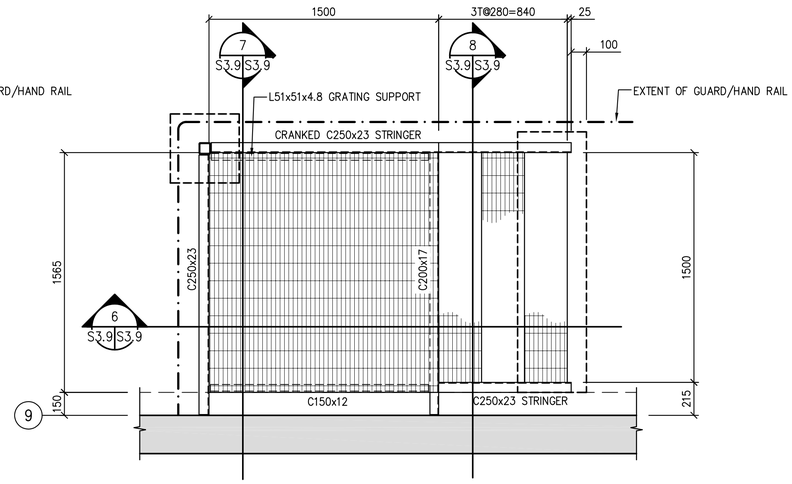


1 STAIR PLAN
S1.2 S3.9
1 : 20

NORTH

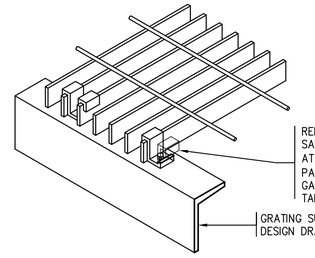


5 STAIR PLAN
S1.2 S3.9
1 : 20

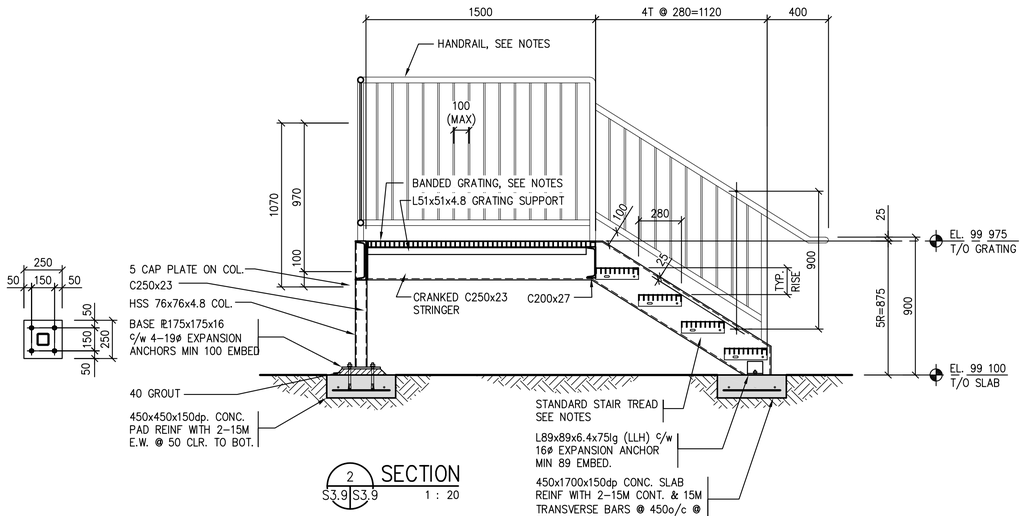
NORTH

TYPICAL STAIR NOTES:

1. ALL STAIR AND LANDING STEEL TO BE GALVANIZED.
2. TYPICAL STAIR STRINGER TO BE C250x23 U.N.O. GALVANIZED.
3. HAND AND GUARDRAIL HORIZONTAL MEMBERS TO BE FROM DN38 STD. WALL HSS PIPE. VERTICAL MEMBERS TO BE FROM DN38 STD. WALL PIPE. AT MAX 1500mm c. VERTICAL PICKETS TO BE FROM 10mmø ROD SPACED AT MAX 100mm c ALL PIPE TO BE 240MPa. ALL MEMBERS TO BE GALVANIZED.
4. ALL CONNECTIONS TO BE BOLTED UNLESS APPROVED.
5. TYPICAL STAIR TREAD TO BE SERRATED GRATING 38x4.8 BEARING BARS TYPE 19-4 c/w ABRASIVE NOSING, GALVANIZED.
6. TYPICAL LANDING GRATING TO BE SERRATED GRATING 38x4.8 BEARING BARS TYPE 30x102M BANDED, GALVANIZED. SEE DETAIL 9/S3.9 FOR GRATING ANCHORAGE DETAIL, TYP.



9 GRATING ANCHORAGE DETAIL TYP.
S3.9 S3.9
NTS



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S3.9 S3.9
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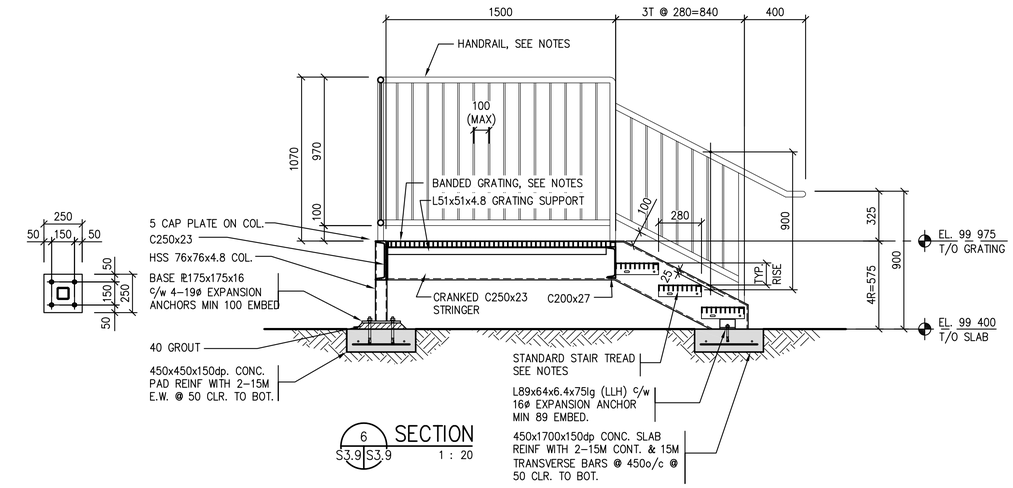
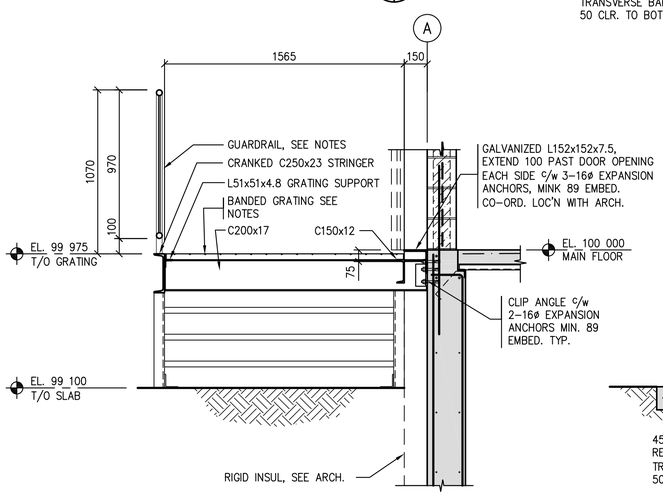
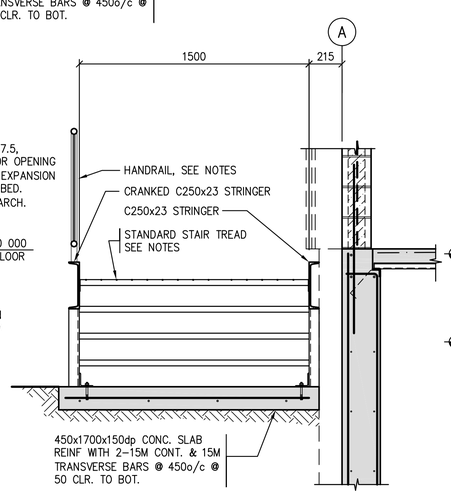


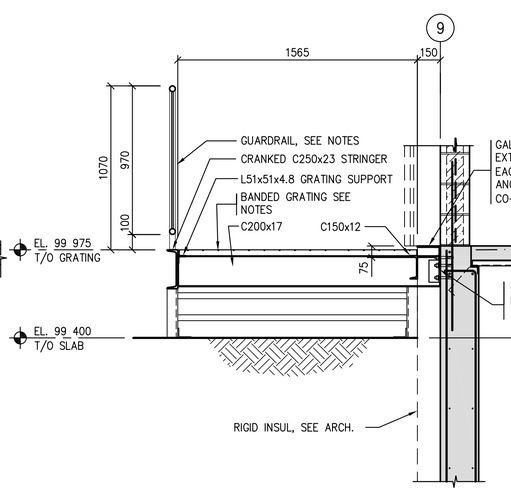
6 SECTION
S3.9 S3.9
1 : 20



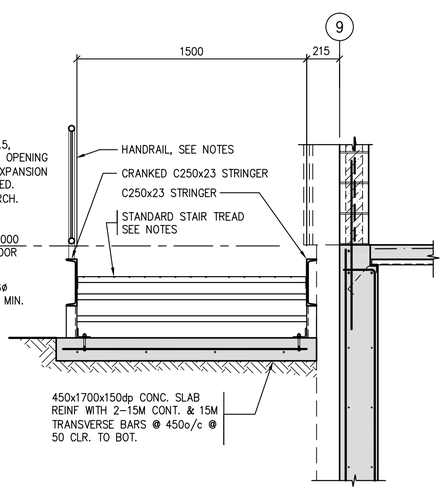
3 SECTION
S3.9 S3.9
1 : 20



4 SECTION
S3.9 S3.9
1 : 20



7 SECTION
S3.9 S3.9
1 : 20



8 SECTION
S3.9 S3.9
1 : 20

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PELICAN NARROWS, SASKATCHEWAN

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R-10-2017	S3.9	0

PWGSC – A1 – 841X594

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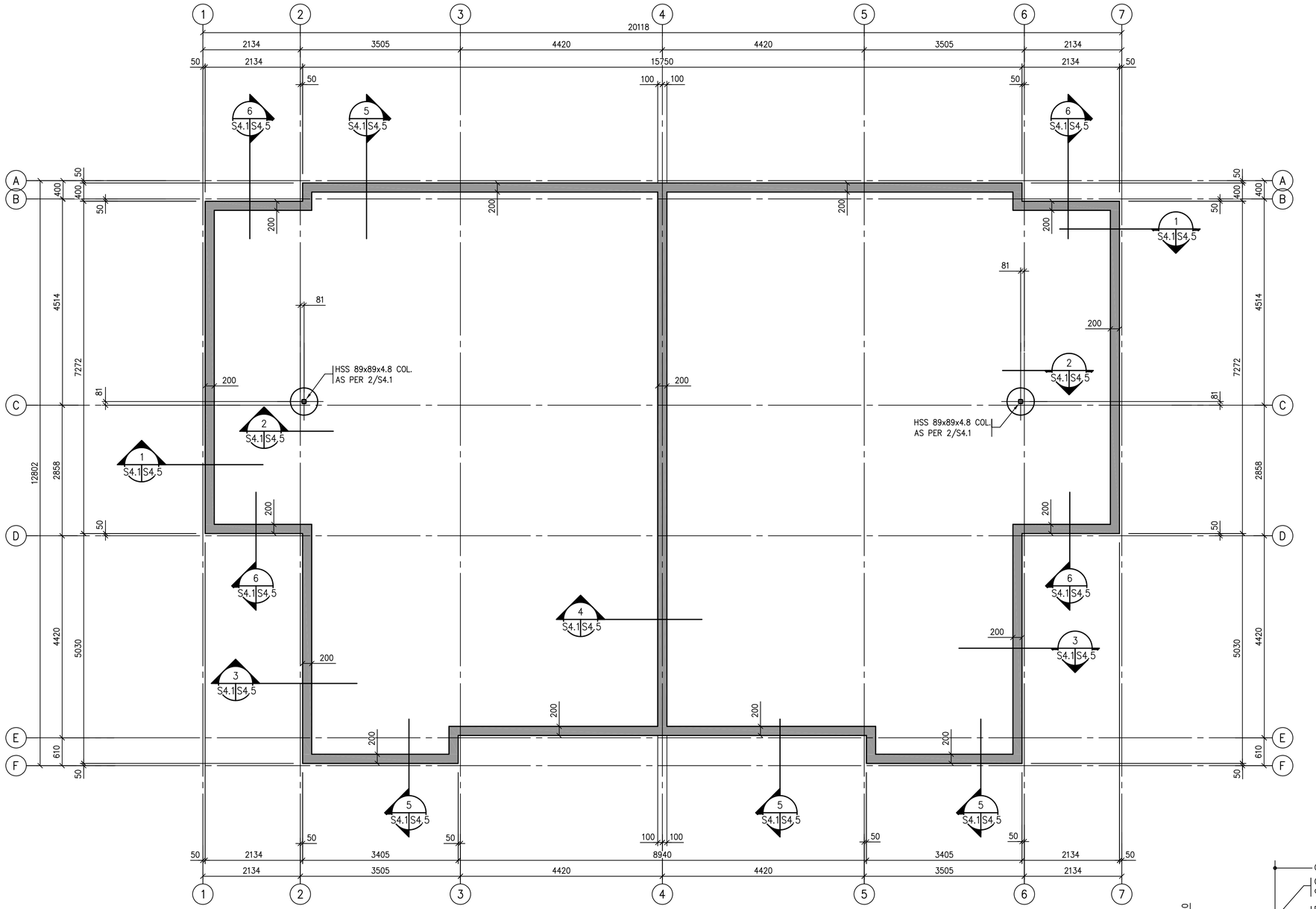
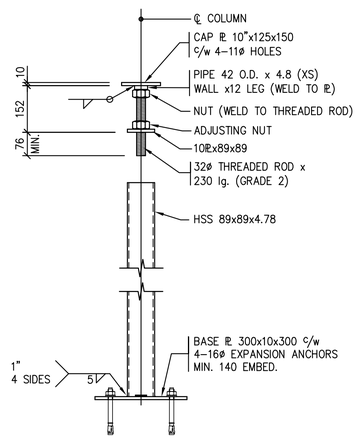


1 S4.1|S4.1 FOUNDATION PLAN
1 : 50



2 S4.1|S4.1 ADJUSTABLE POST DETAIL
1 : 10

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HOUSING:
FOUNDATION PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	S4.1	0

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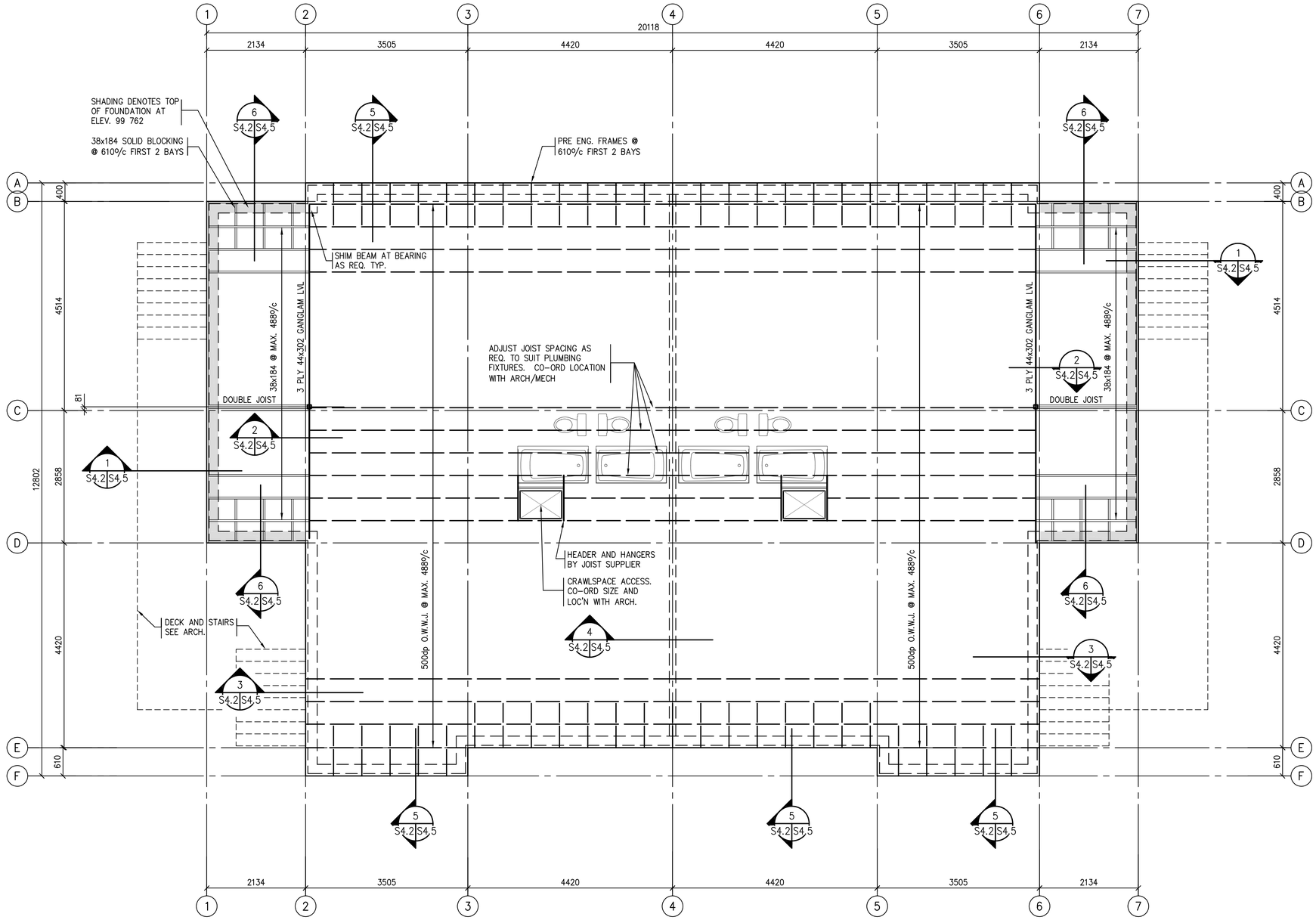
A000



MAIN FLOOR FRAMING PLAN

1 : 50

NORTH

NOTES:

1. FLOOR CONSTRUCTION TO BE:
   19mm T&G SHEATHING (GLUED AND NAILED)
   PRE-ENGINEERED O.W.W.J. AS NOTED ON PLAN. (MAX. SPACING 488 o.c.)
   CO-ORDINATE AND ADJUST SPACING OF O.W.W.J. TO SUIT ALL NON-MOVEABLE PLUMBING FIXTURE DRAIN AND STACK LOCATIONS. (ie. WATER CLOSETS, TUBS, ETC.)

2. T/O MAIN FLOOR SUBFLOOR @ ELEVATION 100 000

3. FLOOR DESIGN LOADS (SUPERIMPOSED)
   LIVE LOAD = 2.0 KPa
   DEAD LOAD = 1.0 KPa
   TOTAL LOAD = 3.0 KPa

4. PROVIDE VERTICAL GRAIN SOLID BLOCKING BELOW ALL B.U. WOOD COLUMNS, SIZE TO MATCH COLUMN.

5. WALL CONSTRUCTION TO BE:
   EXTERIOR – 38x140 STUDS @ MAX. 406 o.c., SPF#2 OR BETTER, 11mm SHEATHING
   38x140 BLOCKING @ MAX. 1220 o.c. (FOR WALLS OVER 2464mm)
   INTERIOR – 38x140 STUDS @ MAX. 406o/c, SPF#2 OR BETTER

6. FOR WALL OPENING FRAMING, REFER TO TYPICAL LINTEL SCHEDULE.

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HOUSING:
MAIN FLOOR FRAMING PLAN

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R-10-2017	S4.2	0

PWGSC – A1 – 841X594

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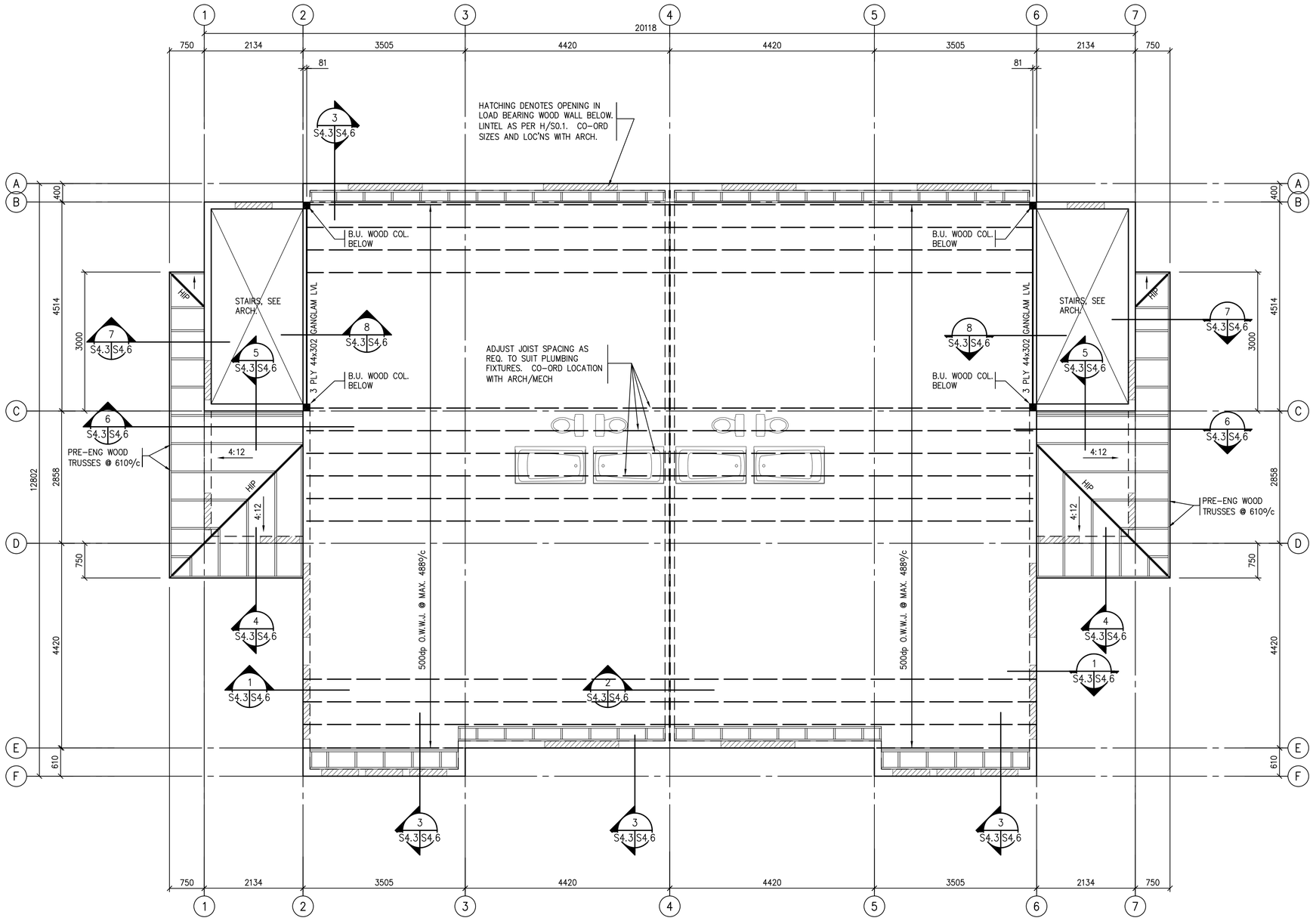
A000



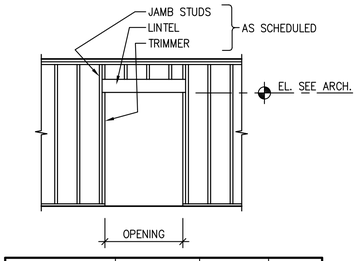
SECOND FLOOR FRAMING PLAN

NORTH

1 : 50

NOTES:

1. FLOOR CONSTRUCTION TO BE:
   19mm T&G SHEATHING (GLUED AND NAILED)
   PRE-ENGINEERED O.W.W.J. AS NOTED ON PLAN. (MAX. SPACING 488 o.c.)
   CO-ORDINATE AND ADJUST SPACING OF O.W.W.J. TO SUIT ALL NON-MOVEABLE PLUMBING FIXTURE DRAIN AND STACK LOCATIONS. (ie. WATER CLOSETS, TUBS, ETC.)
2. T/O SECOND FLOOR SUBFLOOR @ ELEVATION 103 000
3. FLOOR DESIGN LOADS (SUPERIMPOSED)
   LIVE LOAD = 2.0 KPa
   DEAD LOAD = 1.0 KPa
   TOTAL LOAD = 3.0 KPa
4. PROVIDE VERTICAL GRAIN SOLID BLOCKING BELOW ALL B.U. WOOD COLUMNS, SIZE TO MATCH COLUMN.
5. WALL CONSTRUCTION TO BE:
   EXTERIOR – 38x140 STUDS @ MAX. 406 o.c., SPF#2 OR BETTER, 11mm SHEATHING
   38x140 BLOCKING @ MAX. 1220 o.c. (FOR WALLS OVER 2464mm)
   INTERIOR – 38x140 STUDS @ MAX. 406o/c
6. FOR WALL OPENING FRAMING, REFER TO TYPICAL LINTEL SCHEDULE.
7. ROOF CONSTRUCTION TO BE:
   12mm SHEATHING (NAILED) c/w METAL H-CLIPS
   PRE-ENGINEERED WOOD TRUSSES AS NOTED ON PLAN. (MAX. SPACING 610 o.c.) c/w GALVANIZED METAL HURRICANE TIES AT ALL BEARING POINTS.
   TRUSS DESIGN BY TRUSS SUPPLIER.
   ADJUST NUMBER & SPACING AS REQ'D BY DESIGN. CO-ORDINATE AND ADJUST SPACING OF ROOF TRUSSES TO SUIT MECHANICAL. PROVIDE SOLID BLOCKING AT ALL RIDGES, VALLEYS AND HIPS. ROOF TRUSS BRACING SHOWN IS IN ADDITION TO THE REQUIREMENTS OF THE TRUSS SUPPLIER.
8. U/S OF PRE-ENG WOOD TRUSSES @ ELEVATION 102 650 U.N.O.
9. ROOF DESIGN LOADS
   TOP CHORD LIVE LOAD = 1.95 KPa
   DEAD LOAD = 0.5 KPa
   BOT. CHORDLIVE LOAD = 0.0 KPa
   DEAD LOAD = 0.4 KPa
   TOTAL LOAD = 2.85 KPa (PLUS APPLICABLE BUILT-UP SNOW AS PER N.B.C.C.)
10. ADD NAIL LAMINATED STUD COLUMNS BELOW ALL GIRDER TRUSSES, WIDTH OF COLUMNS TO MATCH TRUSS, MIN. 3 STUDS.



OPENING WIDTH	LINTEL	TRIMMER	JAMB
0 – 1200	2–38x184	1	1
1200 – 1800	2–38x235	1	2
1800 – 2200	3–38x235	1	2

WOOD LINTEL SCHEDULE

LINTEL AS PER SCHEDULE UNLESS NOTED OTHERWISE

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Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
S.K.

Drawn by/Dessine par
B.R.

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

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Drawing title/Titre du dessin

HOUSING:
SECOND FLOOR FRAMING PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	S4.3	0

PWGSC – A1 – 841X594

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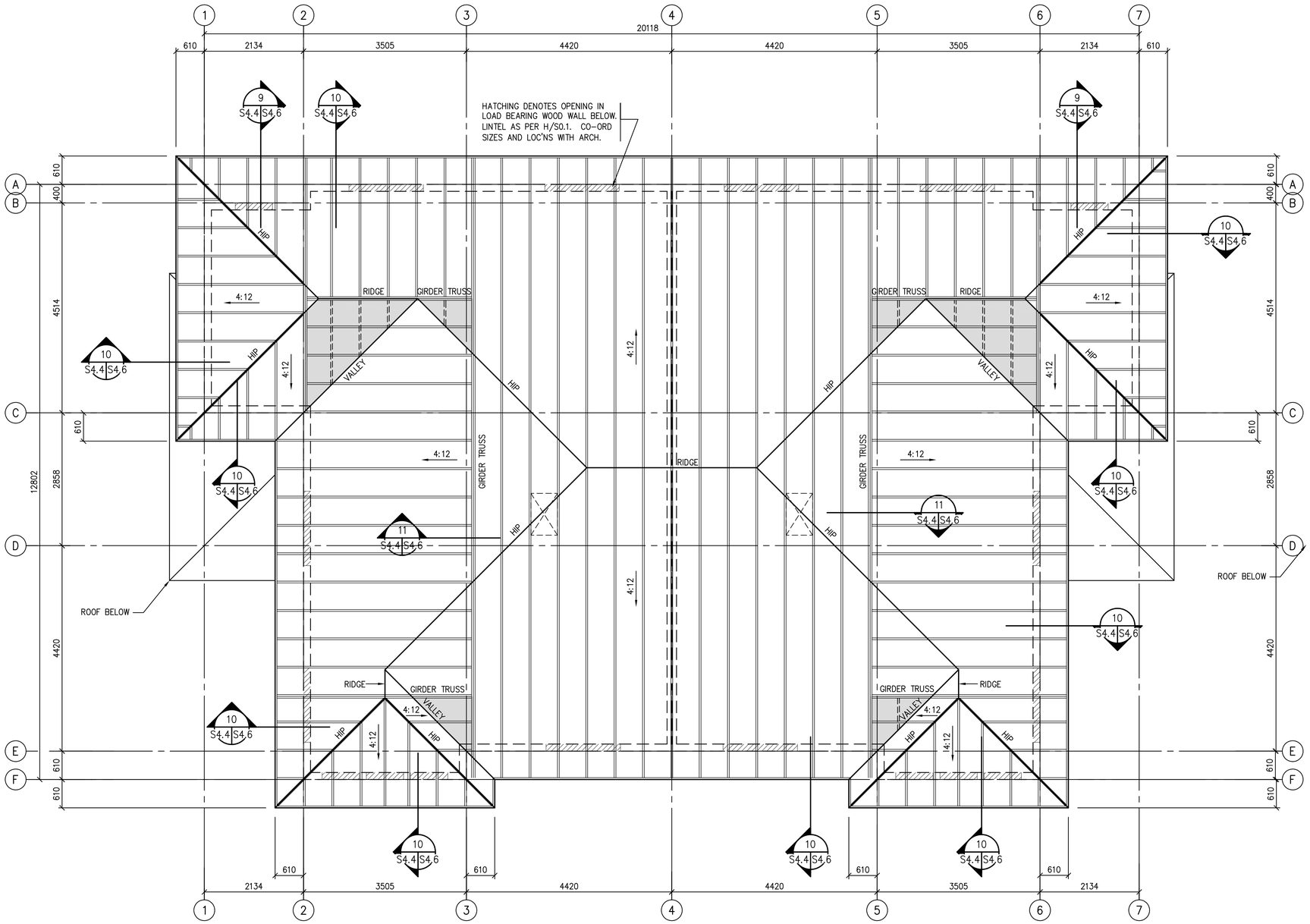

NORTH

1 S4.4 S4.4 ROOF FRAMING PLAN

1 : 50

NOTES:

1. ROOF CONSTRUCTION TO BE:
   12mm SHEATHING (NAILED) c/w METAL H-CLIPS
   PRE-ENGINEERED WOOD TRUSSES AS NOTED ON PLAN. (MAX. SPACING 610 o.c.) c/w GALVANIZED METAL HURRICANE TIES AT ALL BEARING POINTS.
   TRUSS DESIGN BY TRUSS SUPPLIER.
   ADJUST NUMBER & SPACING AS REQ'D BY DESIGN. CO-ORDINATE AND ADJUST SPACING OF ROOF TRUSSES TO SUIT MECHANICAL. PROVIDE SOLID BLOCKING AT ALL RIDGES, VALLEYS AND HIPS. ROOF TRUSS BRACING SHOWN IS IN ADDITION TO THE REQUIREMENTS OF THE TRUSS SUPPLIER.

2. U/S OF PRE-ENG WOOD TRUSSES @ ELEVATION 105 400 U.N.O.

3. ROOF DESIGN LOADS
   TOP CHORD LIVE LOAD = 1.95 KPa
   DEAD LOAD = 0.5 KPa
   BOT. CHORDLIVE LOAD = 0.0 KPa
   DEAD LOAD = 0.4 KPa
   TOTAL LOAD = 2.85 KPa (PLUS APPLICABLE BUILT-UP SNOW AS PER N.B.C.C.)

4. ADD NAIL LAMINATED STUD COLUMNS BELOW ALL GIRDER TRUSSES, WIDTH OF COLUMNS TO MATCH TRUSS, MIN. 3 STUDS.

5. SHEATH PRIMARY ROOF TRUSSES PRIOR TO INSTALLING ROOF JACKS.

6. FOR WALL OPENING FRAMING BELOW, REFER TO TYPICAL LINTEL SCHEDULE.

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

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HOUSING:
ROOF FRAMING PLAN

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R-10-2017	S4.4	0

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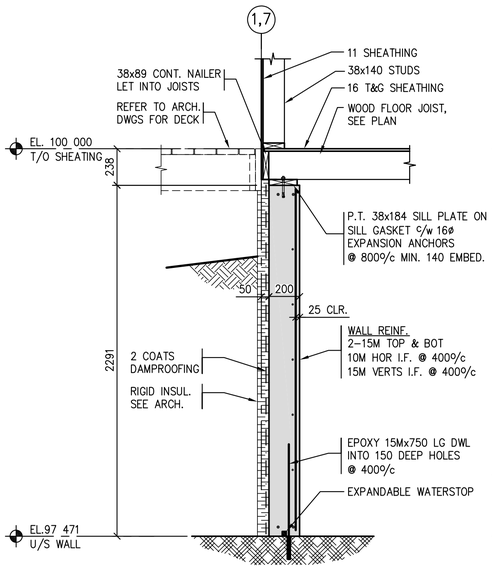
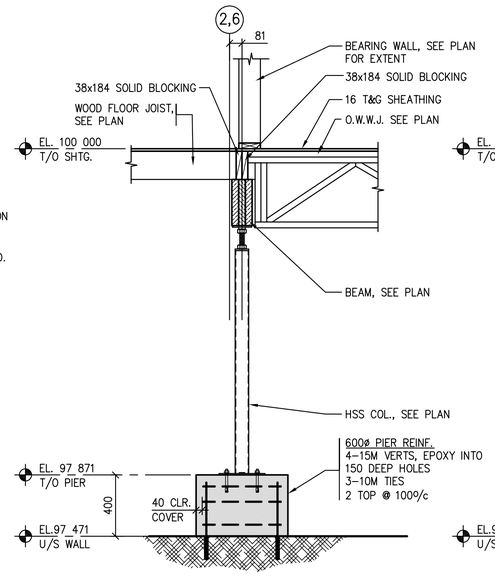


1 SECTION
S4.1,S4.2|S4.5 1 : 20



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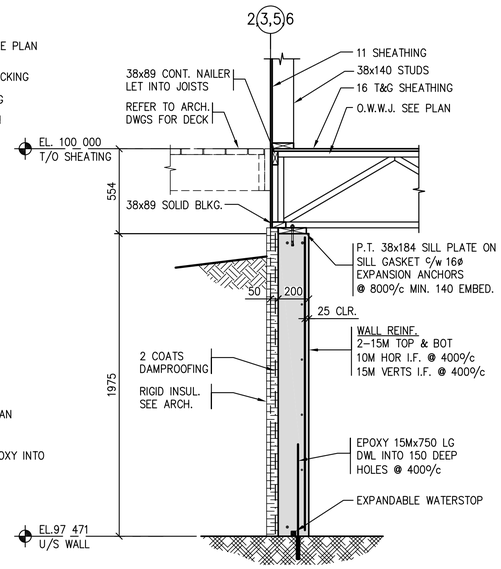
S4.1,S4.2|S4.5 1 : 20



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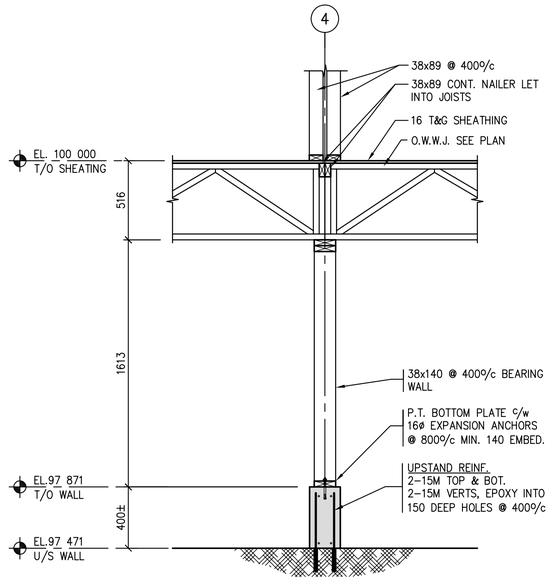

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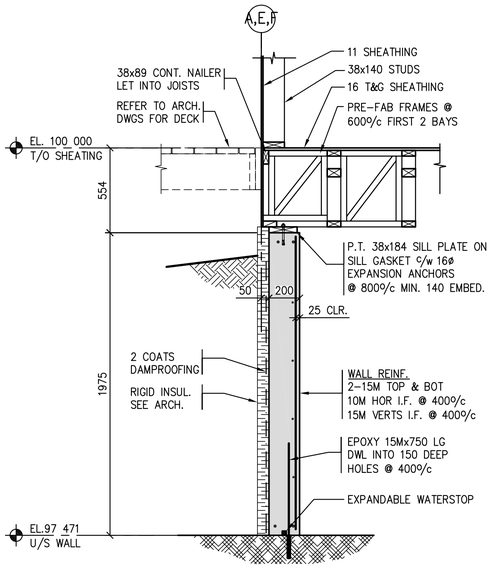

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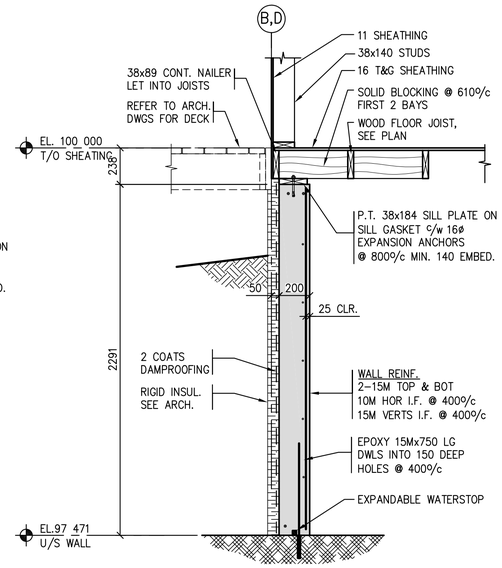

6 SECTION
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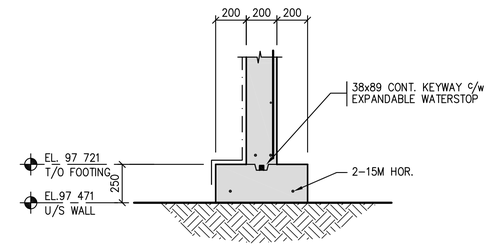
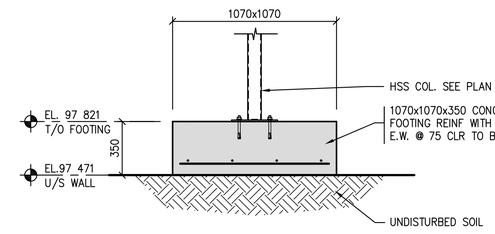
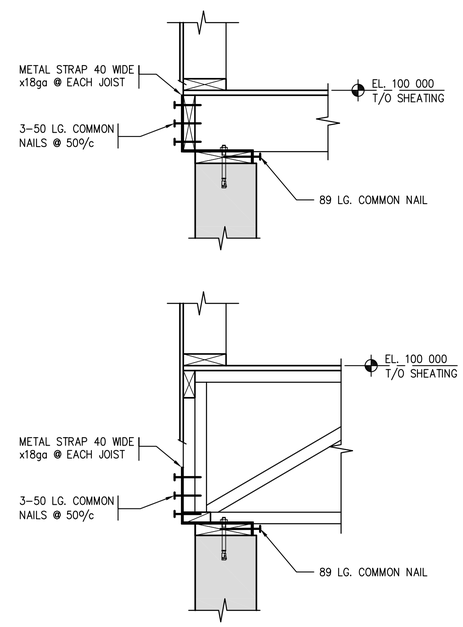


7 ALTERNATE WALL BEARING AT UNDISTURBED SOIL
S4.5|S4.5 1 : 20



8 ALTERNATE COLUMN BEARING AT UNDISTURBED SOIL
S4.5|S4.5 1 : 20



9 STRAPPING DETAIL
S4.5|S4.5 1 : 10

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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

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Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

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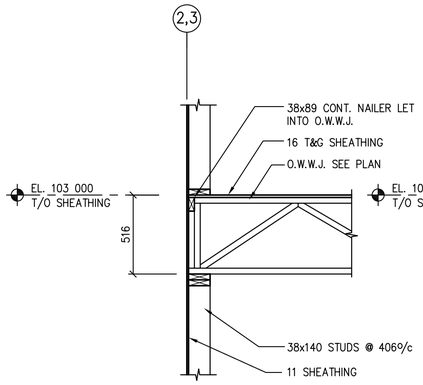
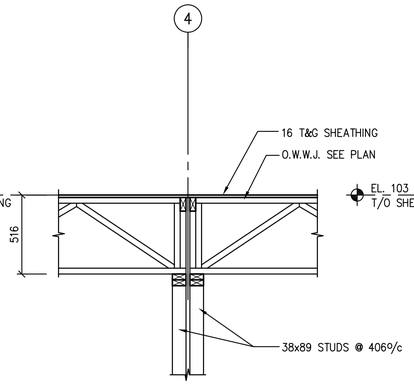


1 SECTION S4.3 S4.6 1 : 20



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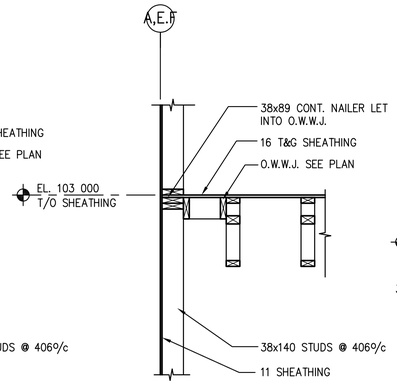

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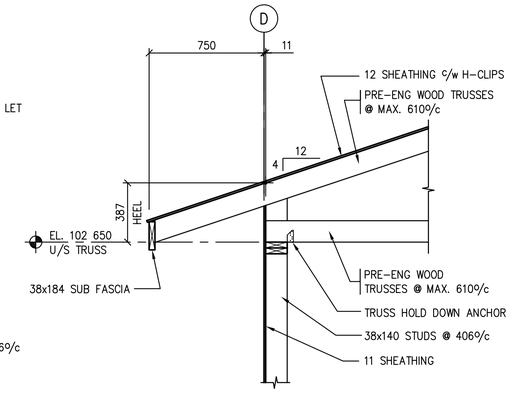
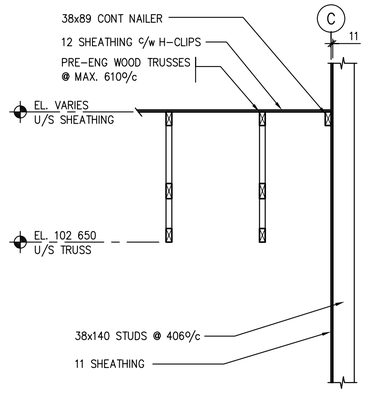


4 SECTION S4.3 S4.6 1 : 20



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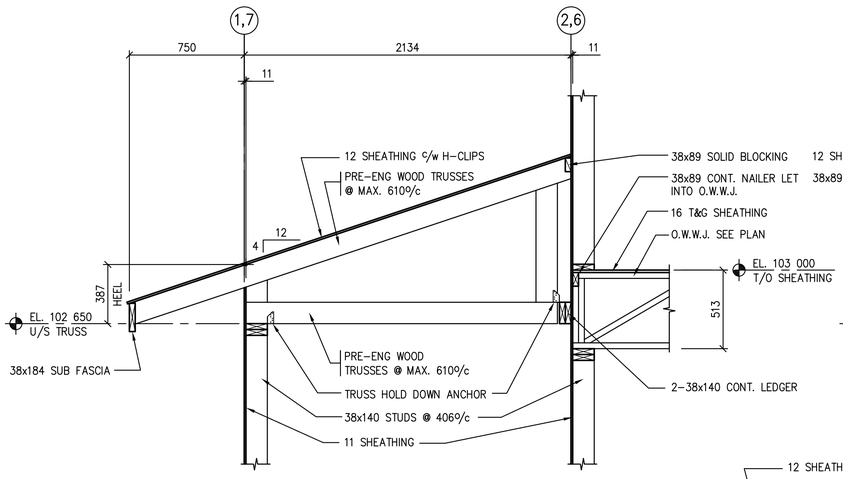

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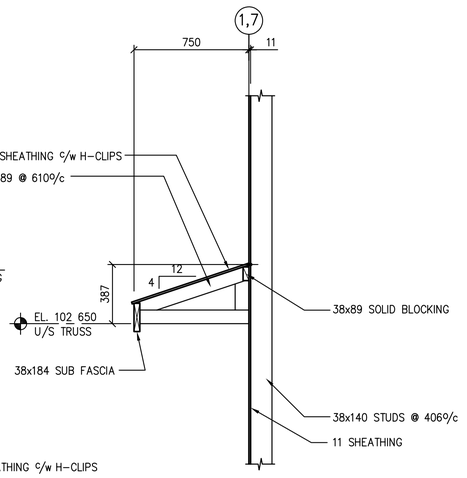

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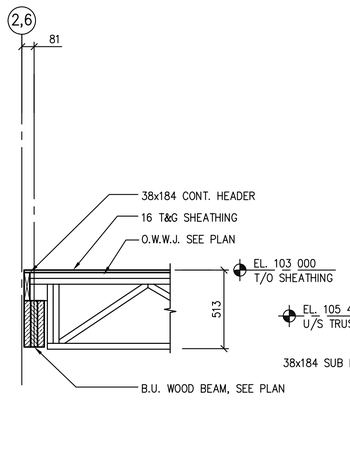

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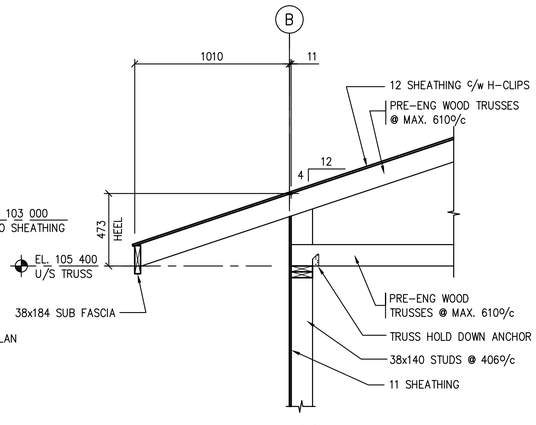

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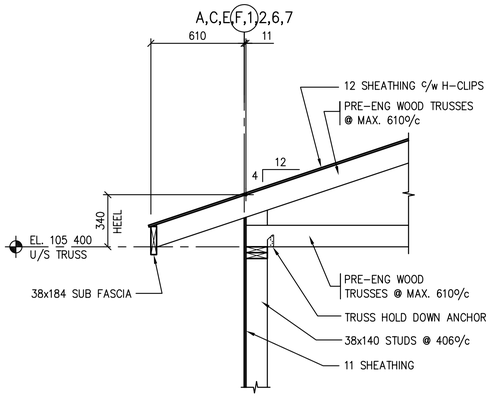

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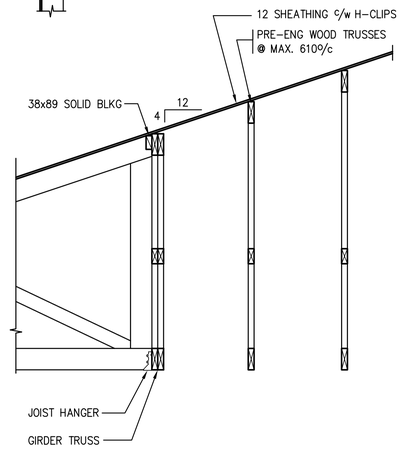

11 SECTION S4.4 S4.6 1 : 20

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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

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HOUSING:
SECTIONS AND DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	S4.6	0

PWGSC – A1 – 841X594

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

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EQUIPMENT SCHEDULE:
The design is based on the equipment listed here and noted in Equipment Schedule Tables. Refer to Section 21 05 01 Article 1.24 ALTERNATE MATERIALS & EQUIPMENT for responsibilities when utilizing equipment that differes from the basis of design but still meets the design intent and the process to apply to use equipment that alters the design intent.

HEATING BOILERS B-1, B-2, B-3 & B-4: Viessmann Vitodens 200-W Model B2HA112, Wall mounted propane gas condensing boiler with modulating gas valve and burner. 113kW (399 MBH) gas input, 103kW (371 MBH) heat output. Each boiler to be complete with 24 volt controls, auto reset low water cut-off, circuit breaker, high limit, tridicator, relief valves piped to floor, modulating control, and flow switch. Boilers to be started by factory certified technician complete with written report submitted to Engineer. Electrical connection: 120V/60/1 phase.

DOMESTIC HOT WATER HEATERS DWH-1 AND DWH-2: A.O. Smith Cyclone HE, Model BTX-80, powervent, high efficiency commercial propane gas water heater, fully condensing up to 94% thermal efficiency. (50 gallons) 189 litres tank size, (76.0 MBH) gas input, (86 U.S. gallon/hour recovery at 100 deg.F) 325 litres/hour recovery at 56 deg.C temperature rise. Electrical 120V/60/1 phase plug-in connection. Unit to be mounted on concrete housekeeping pad by structural.

EXPANSION TANKS, ET-1 (Heating Water System): Amtrol AX-Series Model AX-80V, 44.4 US Gallons (168.1 litres) total volume, 22.6 US Gallons (85.5 litres) Max Acceptance, diaphragm design, 610 mm diameter x 737 mm tall (24" x 29"). Unit to be mounted on concrete housekeeping pad with free standing integral floor stand. Installation to be complete with isolation valve, drain, and drain isolation valve.

EXPANSION TANK ET-2 (Domestic Hot Water System): Amtrol Model ST-12, 4.4 gallon total volume, 11" diameter x 15" high. Installation shall be complete with isolation valve and drain valve.

HYDRAULIC SEPARATOR: Caleffi NA549AM Combination hydraulic, air, dirt and magnetic separator. Unit includes an epoxy resin painted steel body with flanged connections, a brass blowdown drain valve and automatic brass air vent with brass shutoff valve, stainless steel internal coalescing element and a brass drywell for an external removable magnet. Unit to be capable of automatically eliminating air micro-bubbles and removing dirt particles as tiny as 5 microns. The separator must be ASME Registered. Provide and install complete with pressure relief valve piped to floor, in accordance with requirements of TSASK. Sized based on 85 GPM.

HEATING SYSTEM ANTIFREEZE: Supply and install 30% inhibited propylene glycol and 70% water solution. Glycol shall be coordinated with requirements of boiler system being supplied.

WATER METER: New water meter to approval of Pelican Narrows Municipal Authority complete with bypass valve.

DOMESTIC WATER SERVICE DOUBLE CHECK VALVE ASSEMBLY: Watts Series 957 lead free line size reduced pressure testable double check valve assembly complete with quarter turn shut-off valves and bronze wye strainer.

FIRE PROTECTION DOUBLE CHECK VALVE ASSEMBLY: Watts Model 757 line size testable double check valve assemble complete with OSY shut-off valves.

TRIPLE DUTY VALVE: Shall not be permitted, provide individual valves as indicated on Schematic.

CIRCUIT BALANCE VALVES: Armstrong sized for flow required, installed in accordance with manufacturer's recommendations.

FLOW LIMITING VALVE: Automatic flow limiting valve complete with wye strainer, isolation valve, and gauge ports. If valve is to be installed on supply side (depends on valve purchased), valve may include wye strainer indicated in schematics. If flow limiting valve is to be installed on Return Side (depends on valve purchased), separate wye strainer must be purchased for system. Units to be sized based on flow requirements and installed as per manufacturer's recommendations.

SIDE STREAM FILTERS: Filterite Model LM010 replaceable media side stream filter, complete with sight glass and one case of thirty 20 micron cartridges and one case of thirty 5 micron cartridges.

SYSTEM FILL SF-1: Hydronic system feeder shall be AXIOM INDUSTRIES LTD. Model SF100. System shall include 208 litres (55 US gallon) storage/mixing tank with cover; pump suction hose with inlet strainer; pressure pump with thermal cut-out; integral pressure switch; integral check valve; cord and plug; pre-charged accumulator tank with EPDM diaphragm; manual diverter valve for purging air and agitating contents of storage tank; pressure regulating valve adjustable (35 - 380 KPa; 5 - 55 psig) complete with pressure gauge; integral replaceable strainer; built-in check valve; union connection 12 mm (1/2") x 900 mm (36") long flexible connection hose with check valve; low level pump cut-out. Pressure pump shall be capable of running dry without damage. Power supply 115/60/1, 0.7 Amps. Unit shall be completely pre-assembled and certified by a recognized testing agency to CSA standard C22.2 No 68. Unit to be complete with Low Level Alarm Panel c/w Remote Monitoring Dry Contacts and Selectable Audible Alarm.

CONDENSATE NEUTRALIZATION TANK: Axiom Model NT25 Condensate Neutralization Tank complete with 25mm (1") side inlet, 25mm (1") side outlet, constructed of one piece seamless polypropylene (corrosion resistant material), 18 Litres (4.8 gallon) tank capacity and complete with an initial charge of 40 lbs of neutralizing media.

MOTORIZED DAMPERS: Tamco Series 9000 BF, thermally broken extruded aluminum dampers. Damper frame shall be no less than 4" deep and insulated with polystyrene on all four sides. Entire frame shall be thermally broken. Blades shall be extruded aluminum less than 8" width, internally insulated with expanded polyurethane foam, thermally broken, and mounted in opposed blade action. Blade and frame seals to be extruded silicone secured in an integral slot. Dampers to be rated to operate in temperatures between -72 deg.F and 185 deg.F. Pressure drop of dampers, when fully open, to not exceed 0.03" at 1000 fpm. Dampers to be flanged to duct and installed in strict accordance with manufacturer's installation guidelines. Intermediate or tubular steel structural support is required for all dampers that consist of two or more sections in either height or width or both. Actuators to be supplied and installed by the controls contractor.

AIR COOLED CONDENSING UNIT: AAON operating on R-410a refrigerant complete with scroll compressors, factory mounted and wired, air cooled condenser with protective grilles, hail guards, protective wire base guards, architectural sheet metal enclosure, liquid line solenoid valves, filter dryers, sight glasses, expansion valves, insulated suction lines, weather tight lockable control panel, control power transformer, low limit lockout starter and terminal strip for control by unit controller. Unit shall have capacity modulation in response to load. Installation to be complete with, field mounted and wired flow switch, spring isolation and non fused disconnect. Each unit to be complete with factory start-up by factory trained technicians.

CU-1: Model CFA-009-B-A-8-DC00K. Unit cooling capacity 28kW (95.7 MBH) nominal at 35 deg.C (95 deg.F) Ambient air, (13.1 EER) and 7.22 deg.C (45 deg.F) suction temperature. Single point power connection, 208V/60/3 phase, 37 FLA, 41 MCA, 50 Maximum Overcurrent. Maximum casing radiated sound power to be 68dB at 63Hz, 68dB at 125Hz, 69dB at 250Hz, 71dB at 500Hz, 70dB at 1000Hz, 65dB at 2000Hz, 60dB at 4000Hz, 55dB at 8000Hz. Unit has two compressors and two refrigerant circuits with variable scroll compressor for load modulation on lead circuit.

CU-2: Model CFA-026-D-A-8-GC00L. Unit cooling capacity 82kW (279.8) nominal at 35 deg.C (95 deg.F) Ambient air, (12.4 EER) and 7.22 deg.C (45 deg.F) suction temperature. Single point power connection, 208V/60/3 phase, 90 FLA, 95 MCA, 110 Maximum Overcurrent. Maximum casing radiated sound power to be 75dB at 63Hz, 81dB at 125Hz, 79dB at 250Hz, 78dB at 500Hz, 76dB at 1000Hz, 73dB at 2000Hz, 69dB at 4000Hz, 63dB at 8000Hz. Unit has two compressors and two refrigerant circuits with variable scroll compressor for load modulation on lead circuit.

LOUVRES: Price Model DE635, stationary extruded 152mm (6") deep aluminum drainable blades positioned at 35 degrees, extruded aluminum frame and supports, all welded construction, integral perimeter caulking stop, 12mm x 12mm (1/2" x 1/2") 16 gauge expanded aluminum bird screen without frame, finish to be baked enamel with custom colour as selected by Architect.

GAS DETECTORS (Room 145 and 165): Armstrong, AMC-1AD1 single zone gas monitor complete with one AMC-1222 Series combination carbon monoxide sensors and nitrogen dioxide sensors. Monitor to have a minimum coverage area of 50' radius and to be complete with low, high, and fail indicators, two 10 Amp relays, selectable time delay, audible alarm with silencer. Electrical: 120V/60/1 phase.

AIR CONDITIONING UNIT AC-1 (LAN 202): Mitsubishi Electric Model PKA-A24FA, wall mounted room air conditioner. SEER: 13.5. Unit shall provide 1.76-3.52 Kw (12.0-24.0 MBH) of cooling. Power shall be 208V/60/1 phase. Power to A/C unit is supplied from the outdoor condensing unit on terminals S1 & S2. Power Input 2,650 Watts, Maximum Breaker: 25 Amps. MCA: 1.0 Unit fan shall supply 250 L/s (530 CFM) on low speed and 333 L/s (705 CFM) on high speed. Unit shall be complete with R-410A refrigerant, all mounting hardware, auto vane and swing mode, super quiet operation, filter, pre-charged refrigerant line set and microprocessor controls including Slim Smart Remote. Unit shall be complete with Mini Aqua condensate pump mounted within drain pan of unit. Pump to be wired with unit.

OUTDOOR CONDENSING UNIT CU-3 (Roof): Mitsubishi Electric Model PUY-A24NHA. Power shall be 208V/60/1 phase. MCOP: 30 Amps. MCA: 18. Unit shall carry a 6-year compressor warranty. Compressor shall be variable speed scroll. Unit shall be complete with optional controls and equipment for low ambient operation to -40 deg. C (-40 deg. F) including wind guards. Mount unit on rubber isolating pads on concrete pad, see structural.

CARBON MONOXIDE DETECTOR (Service Room 201): Honeywell Notifier model CO1224T, Carbon monoxide detector listed to UL 2075 for Gas and Vapor detectors and sensors. The detector shall be equipped with a sounder and a trouble relay. The detector's base shall be able to mount to a single-gang electrical box or surface mount to the wall or ceiling. Wiring connections shall be made by means of SEMS screws. The detector shall provide dual color LED indication, which blinks to indicate normal standby, alarm, or end of life. When the sensor supervision is in a trouble condition, the detector shall send a trouble signal to the panel. When the detector gives a trouble or end of life signal, the detector shall be replaced. operating voltage 12/24 VDC. Detector to be installed in Service room in accordance with manufacturer's instructions.

(RESIDENCE CRAWLSPACE) ELECTRIC UNIT HEATER EUH-1: Stelpro, or approved equal, Model RUH4TCHAR electric unit heater. 350 cfm. 4000-3000 watt 240-208V/60/1. 20 gauge steel cabinet, totally enclosed and factory lubricated motor, adjustable louvers, built-in thermostat and ceiling mounting bracket.

(RESIDENCE) DOMESTIC HOT WATER HEATERS DWH-3: A.O. Smith Cyclone HE, Model BTX-80, powervent, high efficiency commercial propane gas water heater, fully condensing up to 94% thermal efficiency. (50 gallons) 189 litres tank size, (76.0 MBH) gas input, (86 U.S. gallon/hour recovery at 100 deg.F) 325 litres/hour recovery at 56 deg.C temperature rise. Electrical 120V/60/1 phase plug-in connection. Unit to be installed with drain pan installed under tank and piped to drain.

(RESIDENCE) FURNACE F-1: Armstrong Air, Model A97DSMV070C8S 97% modulating variable speed down-flow propane gas furnace, 409 stainless steel primary heat exchanger with crimped no-weld construction, AL 29-4C stainless steel secondary heat exchanger, 33" high cabinet, ECM variable speed slide out blower motor, communicating control, modulating gas valve, self diagnostics, and category 4 direct vent. Furnace to be rated at (66 MBH) 19.35 kW input maximum, (64 MBH) 18.7 kW heating output maximum, ECM motor 1/2 HP (373 Watts), 120V/60/1 phase, 15 M.O.P., 7.7 F.L.A., Trans (V.A.)40. Furnace to provide 963 CFM (454 l/s) default heating airflow maximum, 489 CFM (230 l/s) default heating airflow minimum. Furnace installation to be complete with concentric horizontal termination kit, condensate pump kit, neutralizer kit, and external filter rack complete with 1" (25mm) pleated filter. Unit to be complete with modulating communicating 7 day programmable Comfort Sync T-Stat thermostat. Furnace error codes to be tied to exterior light and horn.

(RESIDENCE) HEAT RECOVERY VENTILATOR HRV-1: Lifebreath Model RNC205 heat recovery ventilator, or approved equal, Core: one cross-flow aluminum heat recovery core. Motors and Blowers: each airstream has an independent motorized impeller with multiple fan speed operations: 75 l/s at 124 Pa (160 CFM at 0.5"). Filters: washable air filters in exhaust and supply air streams. Mounting: threaded insert at corners of the cabinet designed to accepts "S" hooks and hanging straps supplied with unit. Defrost: recirculating damper defrost system. Case: 20 gauge prepainted galvanized steel for corrosion resistance, insulated to prevent exterior condensation. Drain connections: two 12mm (1/2") OD to be piped to nearest floor drain. Balancing ports located on unit. Installer Selectable High Speed Settings: adjustable DIP switches located on circuit board. Connection Duct sizes: four 150mm (6") oval collars for exterior duct connections, balancing dampers are located on all collars. Unit to be complete with two 150mm (6") diameter weather hoods. Weight: 25.8kg (57 lbs). Electrical: 120V/60/1 phase, Watts at high speed = 64, Watts at high speed = 96. Amp Rating = 1.4. 68% sensible efficiency @ 47L/s -25 deg. C. Unit to be controlled from 99-DXPL02 ventilation controller.

Unit Heater Schedule

Cabinet Unit Heaters: Design based on Engineered Air hot water cabinet heater complete with speed control mounted inside cabinet, locking access door and filter. Suspend horizontal units with spring isolation hangers and connect ductwork with flexible connections.

Tag	Location	Arrangement (valve)	Model	Airflow		Capacity		EAT		EWT		LWT		Water Flow		Pressure Drop		Control	H.P.		V / Hz / P
				L/S	(CFM)	kW	(MBH)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Deg. C.	Deg. F.	L/S	(GPM)	kPa	ft. w.c.		kW	hp	
FF-1	105	19 (3-way)	CUH-12	708	(1500)	10.9	(37.3)	15.6	(60)	51.7	(125)	40.6	(105)	0.24	(3.80)	3.59	(1.20)	EMCS	0.19	(1/4)	115/60/1
FF-2	101	4 (3-way)	CUH-12	708	(1500)	10.9	(37.3)	15.6	(60)	51.7	(125)	40.6	(105)	0.24	(3.80)	3.59	(1.20)	EMCS	0.19	(1/4)	115/60/1
FF-3	131	19 (3-way)	CUH-12	708	(1500)	10.9	(37.3)	15.6	(60)	51.7	(125)	40.6	(105)	0.24	(3.80)	3.59	(1.20)	EMCS	0.19	(1/4)	115/60/1
FF-4	201	26 (3-way)	CUH-12	708	(1500)	10.9	(37.3)	15.6	(60)	51.7	(125)	40.6	(105)	0.24	(3.80)	3.59	(1.20)	EMCS	0.19	(1/4)	115/60/1

Horizontal Unit Heaters: Design based on Engineered Air hot water unit heater. Suspend units with spring isolation hangers. Horizontal Unit Heater c/w 4-way adjustable diffuser and fan guard.

Tag	Location	Arrangement (valve)	Model	Airflow		Capacity		EAT		EWT		LWT		Water Flow		Pressure Drop		Control	H.P.		V / Hz / P
				L/S	(CFM)	kW	(MBH)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Deg. C.	Deg. F.	L/S	(GPM)	kPa	ft. w.c.		kW	hp	
UH-1	148	Horiz. (3-way)	H-10	1896	(4020)	40.5	(138.3)	15.6	(60)	71.1	(160)	54.4	(130)	0.59	(9.40)	0.90	(0.30)	EMCS	0.37	(1/2)	115/60/1
UH-2	201	Horiz. (2-way)	H-6	698	(1480)	16.6	(56.8)	15.6	(60)	71.1	(160)	54.4	(130)	0.25	(3.90)	0.60	(0.20)	EMCS	0.12	(1/6)	115/60/1
UH-3	201	Horiz. (2-way)	H-6	698	(1480)	16.6	(56.8)	15.6	(60)	71.1	(160)	54.4	(130)	0.25	(3.90)	0.60	(0.20)	EMCS	0.12	(1/6)	115/60/1
UH-4	132	Horiz. (3-way)	H-3	396	(840)	9.4	(32.0)	15.6	(60)	71.1	(160)	54.4	(130)	0.14	(2.20)	0.90	(0.30)	EMCS	0.06	(1/12)	115/60/1
UH-5	201	Horiz. (3-way)	H-3	396	(840)	9.4	(32.0)	15.6	(60)	71.1	(160)	54.4	(130)	0.14	(2.20)	0.90	(0.30)	EMCS	0.06	(1/12)	115/60/1
UH-6	Crawl	Horiz. (3-way)	H-6	698	(1480)	8.9	(30.4)	15.6	(60)	51.7	(125)	46.1	(115)	0.41	(6.50)	5.98	(2.00)	EMCS	0.12	(1/6)	115/60/1
UH-7	Crawl	Horiz. (2-way)	H-6	698	(1480)	8.9	(30.4)	15.6	(60)	51.7	(125)	46.1	(115)	0.41	(6.50)	5.98	(2.00)	EMCS	0.12	(1/6)	115/60/1
UH-8	Crawl	Horiz. (3-way)	H-6	698	(1480)	8.9	(30.4)	15.6	(60)	51.7	(125)	46.1	(115)	0.41	(6.50)	5.98	(2.00)	EMCS	0.12	(1/6)	115/60/1
UH-9	Crawl	Horiz. (3-way)	H-6	698	(1480)	8.9	(30.4)	15.6	(60)	51.7	(125)	46.1	(115)	0.41	(6.50)	5.98	(2.00)	EMCS	0.12	(1/6)	115/60/1
UH-10	Crawl	Horiz. (2-way)	H-6	698	(1480)	8.9	(30.4)	15.6	(60)	51.7	(125)	46.1	(115)	0.41	(6.50)	5.98	(2.00)	EMCS	0.12	(1/6)	115/60/1

Air Handling Unit Schedule

Design is based on DAIKIN Vision AHU. AHU to have double wall construction with minimum R value of R-13. Fans and drives to be internally spring isolated, complete with flexible duct connections, 50 mm deflection spring isolators and factory installed concrete inertia bases under fans. Access to be hinged doors complete with 1/4 turn fasteners, all access and fan sections to be complete with lights. Provide Stainless Steel drain pans under energy recovery wheel, heating coil and cooling coil. All remote dampers and all damper actuators shall be by controls. Unit to be mounted on 100 mm high housekeeping pad. Fan Performance based on the following filter APDs: 50mm (2") Winter or Summer Prefilter Based on a Mean APD of 158 Pa (.63") Final Filters Based on a Mean APD of 247.5 Pa (0.99"). Belt fans to include auto belt tensioner pully. Electrical to provide dedicated circuit for each motor and a dedicated 15 amp, 120V/1 phase circuit for each air handling unit for lighting. Unit to be complete with touchscreen unit controller with associated sensors. Controls contractor to provide wiring from sensors and valves to unit controller.

Air Handling Unit AHU-1: Supply Air (in order of airflow), 50mm MERV 8 prefilter, energy recovery wheel, hot water heating coil, 50mm MERV 8 prefilter and 100mm MERV 13 final filter section c/w mag gauge, DX cooling coil, plenum supply fan c/w zero pressure drop piezoelectric factory ring airflow measuring system. Exhaust Air (in order of airflow), 50mm MERV 8 filter, energy recovery wheel, plenum exhaust fan c/w zero pressure drop piezoelectric factory ring airflow measuring system. Refer to Drawings for unit configurations. Starters to be supplied and mounted by mechanical. Electrical to provide power wiring to starter and from starter to motor.

Fan Data

AHU	TAG	Size		Fan		Airflow		TSP		ESP		Control	H.P.		V / Hz / P	Heat Wheel Motor			
		mm	in	Type	Class	L/S	(CFM)	Pa	in. w.c.	Pa	in. w.c.		kW	hp		Control	H.P. kW	H.P. hp	V / Hz / P
AHU-1	RF-1	241	(9.5)	Forward Curve	II	1132	(2400)	515	(2.07)	187	(0.75)	VFD - EMCS	2.238	(3)	208/60/3	VFD - EMCS	0.373	(1/2)	208/60/3
AHU-1	SF-1	241	(9.5)	Forward Curve	II	1038	(2200)	894	(3.59)	249	(1.00)	VFD - EMCS	2.238	(3)	208/60/3				

Hydronic Heating Coils

AHU	Tag	Airflow		EAT		LAT		APD		Coil Capacity		Medium	Derate	EWT		LWT		Flow		Water PD	
		L/S	(CFM)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Pa	in. w.c.	kW	(MBH)			Deg. C.	Deg. F.	Deg. C.	Deg. F.	L/S	(GPM)	kPa	ft
AHU-1	HC-1	1038	(2200)	-40.0	(-40)	32.5	(91)	72	(0.290)	88.3	(301.3)	30% PG	8%	71.1	(160)	54.4	(130)	1.37	(21.7)	12.85	4.3

Direct Expansion Cooling Coils

AHU	Tag	Airflow		EAT (DB)		EAT (WB)		LAT		APD		Total Capacity		Sens. Capacity		Suction Temp		Controls
		L/S	(CFM)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Pa	in. w.c.	kW	(MBH)	kW	(MBH)	Deg. C.	Deg. F.	
AHU-1	DXC-1	1038	(2200)	29.4	(85)	18.9	(66)	12.5	(55)	97	(0.390)	25.9	(88.3)	20.7	(70.6)	6.7	(44)	2 stage with variable scroll

Summer Energy Recovery

		Outside Air						Energy Exchanged				Supply Air (after energy exchange)							
AHU	Tag	Airflow		EAT DB		EAT WB		APD		Capacity		Sens. Eff.	Lat. Eff.	Airflow		LAT DB		LAT WB		APD	
		L/S	(CFM)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Pa	in. w.c.	kW	(MBH)	%	%	L/S	(CFM)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Pa	in. w.c.
AHU-1	ERW-1	1038	(2200)	29.4	(85)	18.9	(66)	284	(1.140)	5.7	(19.4)	71.94	66.01	1038	(2200)	25.6	(78.0)	18.7	(65.7)	284	(1.140)

Winter Energy Recovery

		Outside Air						Energy Exchanged				Supply Air (after energy exchange)							
AHU	Tag	Airflow		EAT DB		EAT WB		APD		Capacity		Sens. Eff.	Lat. Eff.	Airflow		LAT DB		LAT WB		APD	
		L/S	(CFM)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Pa	in. w.c.	kW	(MBH)	%	%	L/S	(CFM)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Pa	in. w.c.
AHU-1	ERW-1	1038	(2200)	-40.0	(-40)	-40.0	(-40)	242	(0.970)	63.2	(215.5)	74.53	69.02	1038	(2200)	4.6	(40.3)	0.5	(32.9)	242	(0.970)

Air Handling Unit AHU-2: Supply Air (in order of airflow), plenum return fan c/w zero pressure drop piezoelectric factory ring airflow measuring system, economizer, 50mm MERV 8 prefilter, hot water heating coil, 50mm MERV 8 prefilter and 100mm MERV 13 final filter section c/w mag gauge, plenum supply fan c/w zero pressure drop piezoelectric factory ring airflow measuring system, DX cooling coil. Frequency drives to be supplied and mounted by mechanical. Electrical to provide power wiring to VFD and from VFD to motor.

Fan Data

AHU	TAG	Size		Fan		Airflow		TSP		ESP		Control	H.P.		V / Hz / P			
		mm	in	Type	Class	L/S	(CFM)	Pa	in. w.c.	Pa	in. w.c.		kW	hp	Bhp			
AHU-2	RF-2	508	(20.0)	Airfoil	II	3396	(7200)	346	(1.39)	311	(1.25)	VFD - EMCS	3.73	(5)	3.28	208/60/3		
AHU-2	SF-2	711	(28.0)	Airfoil	II	3396	(7200)	1245	(5.00)	623	(2.50)	VFD - EMCS	7.46	(10)	7.6	208/60/3		

Hydronic Heating Coils

AHU	Tag	Airflow		EAT		LAT		APD		Coil Capacity		Medium	Derate	EWT		LWT		Flow		Water PD	
		L/S	(CFM)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Pa	in. w.c.	kW	(MBH)			Deg. C.	Deg. F.	Deg. C.	Deg. F.	L/S	(GPM)	kPa	ft
AHU-2	HC-2	3396	(7200)	4.2	(40)	15.7	(60)	25	(0.100)	46.5	(158.7)	30% PG	8%	71.1	(160)	54.4	(130)	0.72	(11.4)	5.38	1.8

Direct Expansion Cooling Coils

AHU	Tag	Airflow		EAT (DB)		EAT (WB)		LAT		APD		Total Capacity		Sens. Capacity		Suction Temp		Controls
		L/S	(CFM)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Pa	in. w.c.	kW	(MBH)	kW	(MBH)	Deg. C.	Deg. F.	
AHU-2	DXC-2	3396	(7200)	29.4	(85)	18.9	(66)	12.2	(54)	209	(0.840)	83.7	(285.5)	67.3	(229.5)	6.7	(44)	2 stage with variable scroll

APF - Airfoil Plenum Fan
SW - Single Width
PG - Propylene Glycol

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DO NOT SCALE DRAWINGS

Revision/ Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	18/10/19

Client/client

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
TKC

Drawn by/Dessine par
JDL

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie

Client/client

Drawing title/Titre du dessin

EQUIPMENT SCHEDULE

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	M1.1	0

PWGSC – A1 – 841X594

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

A000

EQUIPMENT SCHEDULE CONT'D:

(RESIDENCE) RANGE HOOD SIDEWALL HOOD: Primex model WC28-7. 7"ø vent hood complete with gasket seal and weighted back-draft damper. Colour selected by Architect

(RESIDENCE) RANGE HOODS (RH-1): Broan Alta model BQSEN130SS, 762mm (30") wide venting model, complete with grease filter, LED lights, 7" and two speed fan switch. Air flow 150 cfm/250 cfm, 1.7 Amps, 115V/60/1 phase. Finish stainless steel.

(RESIDENCE) DRYER LINT TRAP: Fantech Model DBLT4W, to be mounted in-line to the dryer exhaust duct

LAUNDRY EXHAUST SIDEWALL HOOD: Primex model WC28NS-4. 4"ø dryer vent hood complete with gasket seal and weighted back-draft damper. Colour selected by Architect.

SUMP PUMP (SP-1, SP-2 & SP-3): Myers Model SSM331, heavy duty cast iron submersible pump, pump to be oil filled with overload protection, cast iron housing, cast iron seal plate, mechanical seal, cast iron impeller, complete with Simplex electrical control panel Model CE-11SW with on-off-auto switch, high level alarm horn and light and silence button, non-mercury type float switches for on/off functions and high level alarm. Capacity 20 GPM @ 18' head. Motor: 1/3 HP, 115V/60/1 phase complete with 10 foot cord and plug, individual 15amp circuit.

PRE-INSULATED MUNICIPAL SERVICE PIPE SYSTEM: Urecon, insulated pipe system with electric heat tracing. System to be complete with HDPE / PVC pipe, 50mm factory applied rigid polyurethane foam insulation with black polyethylene outer protective jacket, heat tracing conduit installed on pipe prior to insulation, dual sensing electronic thermostat

SPRINKLER JOCKEY PUMP: As part of the main sprinkler tree located in the Service Space 201. Motor: 250 Watt, 115V/60/1 phase, complete with auto and manual control.

FIRE DAMPERS: ULC listed types as noted on drawings. Dampers to be installed in strict accordance with manufacturer's recommendations and authority having jurisdiction.

FIRE/SMOKE DAMPERS: ULC listed types as noted on drawings. Dampers to be installed in strict accordance with manufacturer's recommendations and authority having jurisdiction. Damper to be complete with motorized 24 volt actuator and smoke detection system, supplied with damper. Actuator and detector to be factory wired complete with 24V alarm contact for connection to fire alarm. Activation of either the fire alarm system or duct detector shall open the 24-volt actuator circuit and result in the closing of the smoke/fire damper.

FIRE EXTINGUISHER CABINET FEC-1: Larsen's manufacturing Model SS-C2409-5R semi-recessed stainless steel cabinet with glass in door, complete with ABC dry chemical fire extinguisher with 2-A: 10-B:C rating. Clear bubble with red vertical letters.

FIRE EXTINGUISHER CABINET FEC-2: Larsen's manufacturing Model SS-C2409-SM surface mounted stainless steel cabinet with glass in door, complete with ABC dry chemical fire extinguisher with 2-A: 10-B:C rating. Clear bubble with Red vertical letters.

WALL HUNG FIRE EXTINGUISHER: 4.5 kg (10 lb) ABC dry chemical fire extinguisher with 4-A: 60-B:C rating c/w wall bracket.

CARBON DIOXIDE FIRE EXTINGUISHER: 4.5 kg (10 lb) Carbon dioxide fire extinguisher with 10BC rating c/w wall bracket.

FIRE DEPARTMENT CONNECTION: National Fire Equipment Ltd., Model 229 flush mounted, siamese double clapper, bronze finish with caps, chains, and bronze base plate. Installation to be complete with ball drip check valve piped to drain.

DIFFUSERS AND GRILLES:

S-1 & E-1: Register to be laminate face assembly consisting of 3mm steel sheet for the body and 3.2mm steel sheet for the face. Face complete with 3mm staggered round holes and reinforced with solid steel at 150mm o.c. Face sheet shall be spot welded to the reinforcing bars at 3 locations for each bar. Cover to overlap opening by 50mm on all sides. Grille face frame and compressed frames to be manufactured from steel angle, 32mm x 32mm x 6mm, welded to plenum body. Edge of face frame to be beveled 2mm and all exposed welds and joints to be dresses invisible. Finish to be factory powder coat, off-white colour. Grilles to be fastened to construction with minimum 4-10mm diameter X 50mm long stainless steel bolts with tamperproof heads (Torx with pin or hex head with pin). Acceptable product: Simpson Installations Ltd. Model V2, Chubb OP-20V, Eneround or Virtucom.

S-2: E.H. Price, Model 300x300/SPD/31/B12, square plaque diffuser. t-bar lay-in, white powder coat finish.

S-3: E.H. Price, Model 600x600/SPD/31/B12, square plaque diffuser. t-bar lay-in, white powder coat finish.

S-4: E.H. Price, Model 600x600/SPD/B12, square plaque diffuser, duct mounted complete with safety cable, white powder coat finish.

S-5: E.H. Price, Model 300x300/SPD/B12, square plaque diffuser, duct mounted complete with safety cable, white powder coat finish.

S-6: E.H. Price, Model 520/F/L/A/B12, louvered supply grille, surface mounted, front blades parallel to long dimension, countersunk screwholes, white powder coat finish.

S-7: E.H. Price, Model 520/TB/L/A/B12, louvered supply grille, t-bar lay in, front blades parallel to long dimension, countersunk screwholes, white powder coat finish.

S-8: E.H. Price, Model MSRRCD/CS12TORX-SS/B12, four-way maximum security risk resistant ceiling diffuser, countersunk holes in face with #12x50mm long pinned torx screws, white powder coat finish.

S-9: E.H. Price, Model MSRRCD/CS12TORX-SS/B12, two-way maximum security risk resistant ceiling diffuser, countersunk holes in face with #12x50mm long pinned torx screws, white powder coat finish.

S-10: Extruded aluminum bar grilles with 25mm aluminum frame and mitered corners. Bar spacing not to exceed 11mm. Bars shall be designed for heavy duty application with pencil proof design

E-2: E.H. Price, Model 530/F/L/A/B12, louvered return grille, surface mounted, front blades parallel to long dimension, countersunk screwholes, white powder coat finish.

E-3: E.H. Price, Model 530/F/L/A/B12, louvered return grille, duct mounted complete with safety cable, front blades parallel to long dimension, countersunk screwholes, white powder coat finish.

E-4: E.H. Price, Model 510ZD/F/L/A/B12, louvered return grille complete with steel damper, duct mounted, front blades parallel to long dimension, countersunk screwholes, white powder coat finish.

E-5: E.H. Price, Model 91/L/A/B12, heavy gauge steel grille, surface mounted, front blades parallel to long dimension, countersunk screwholes, opposed blade damper, white powder coat finish. Install grille with pinned torx security screws

E-6: E.H. Price, Model 530/F/L/A/VCS4/B12, louvered return grille, surface mounted, front blades parallel to long dimension, countersunk screwholes, volume/fire damper, white powder coat finish.

R-1: E.H. Price, Model 80/TB/B12, eggcrate face return, t-bar lay-in, white powder coat finish.

R-2: E.H. Price, Model 530/F/L/A/VCS4/B12, louvered return grille, surface mounted, front blades parallel to long dimension, countersunk screwholes, volume/fire damper, white powder coat finish.

Fan Schedule

Cabinet: Design based on Loren Cook GEMC, SQN-B, and SQN-D Models. Housings to be lined with 13 mm thick acoustic insulation. Motor to be mounted on resilient elastic grommets. Fan shall have forward curved wheel AMCA rated for air and sound performance. Units shall be installed complete with flexible duct connections. Units shall be complete with factory wired and installed solid state speed control for air balancing (this is not a disconnect). Suspend fans from structure with spring isolation hangers. SQN-D models to be complete with electronically commutated motors.

General Information						Airflow				Motor				
						Flow		S.P.				H.P.		
Tag	Location	Wheel	Model	Wheel RPM	Sound Sones	L/S	(CFM)	Pa	in. w.c.	Control	Drive Loss %	kW	hp	V / Hz / P
EF-1	165	Centrifugal	100SQN17DEC	1422	6.3	259	(550.0)	93	(0.38)	LS - EMCS	Direct	0.19	(1/4)	120/60/1
EF-2	145	Centrifugal	100SQN17DEC	1389	6.7	175	(370.0)	125	(0.50)	CV - EMCS	Direct	0.19	(1/4)	120/60/1
EF-3	145	Centrifugal	100SQN17DEC	1389	6.7	175	(370.0)	125	(0.50)	CV - EMCS	Direct	0.19	(1/4)	120/60/1
EF-4	136	Centrifugal	GN-862	1012	3.5	347	(735.0)	125	(0.50)	LS - EMCS	Direct	0.25	(1/3)	120/60/1
EF-5	201	Centrifugal	60SQN-B	1572	7	37	(79.0)	125	(0.50)	LS - EMCS	19	0.12	(1/6)	120/60/1
EF-6	201	Centrifugal	60SQN-B	1479	6.1	26	(55.0)	125	(0.50)	LS - EMCS	19	0.12	(1/6)	120/60/1
EF-7	201	Centrifugal	60SQN-B	1479	6.1	26	(55.0)	125	(0.50)	LS - EMCS	19	0.12	(1/6)	120/60/1
EF-8	201	Centrifugal	60SQN-B	1479	6.1	26	(55.0)	125	(0.50)	LS - EMCS	19	0.12	(1/6)	120/60/1
EF-9	201	Centrifugal	60SQN-B	1479	6.1	26	(55.0)	125	(0.50)	LS - EMCS	19	0.12	(1/6)	120/60/1
EF-10	201	Centrifugal	60SQN-B	1479	6.1	26	(55.0)	125	(0.50)	LS - EMCS	19	0.12	(1/6)	120/60/1
EF-11	201	Centrifugal	60SQN-B	1479	6.1	26	(55.0)	125	(0.50)	LS - EMCS	19	0.12	(1/6)	120/60/1
EF-12	201	Centrifugal	60SQN-B	1479	6.1	26	(55.0)	125	(0.50)	LS - EMCS	19	0.12	(1/6)	120/60/1
EF-13	201	Centrifugal	60SQN-B	1479	6.1	26	(55.0)	125	(0.50)	LS - EMCS	19	0.12	(1/6)	120/60/1
EF-14	201	Centrifugal	60SQN-B	1518	6.5	31	(65.0)	125	(0.50)	LS - EMCS	19	0.12	(1/6)	120/60/1
EF-15	201	Centrifugal	60SQN-B	1518	6.5	31	(65.0)	125	(0.50)	LS - EMCS	19	0.12	(1/6)	120/60/1

Definitions
VFD- Variable Frequence Drive CV- Constant Volume LS- Local Switch EMCS- Division 25

Variable Volume Terminal Unit Schedule

Design based on E.H. Price Model SDV-5000. Box to be pressure independent and shall reset to any air flow between 0 and the maximum catalogued air volume. Air flow shall be measured with a multi-point sensor complete with gauge tapings and an accuracy within 5% with a 90ø elbow at the inlet. Casing shall be 22 gauge zinc-coated steel internally lined with 12 mm fiberglass insulation that complies with UL-181, ASTM C 1071, and NFPA-90A. leakage rate shall not exceed 1.4 L/s (3CFM) at an inlet static of 249 Pa (1 in.w.g.). Controllers to be supplied by Controls Contractor and factory mounted onto each box complete with calibration at factory. Box performance shall be ARI certified. Units shall be complete with a copper tube / aluminum fin hot water heating coil in a galvanized steel casing tested and certified to ARI Standard 410. Heating Coils Sizing based on EDB 12.8 Deg.C., EWT 51.7 Deg.C., LWT 40.5 Deg.C.

General Information					Airflow						Heating Coils				
			Neck Size		Unoccupied Air Flow		Cooling Air Flow		Heating Airflow			Coil Capacity		Flow	
Tag	Location	Room Served	mm	(in)	L/S	(CFM)	L/S	(CFM)	L/S	(CFM)	Tag	kW	(MBH)	L/S	(GPM)
VAV-101	115	113	175	7	71	150	236	500	118	250	HC-101	2.24	7.7	0.06	0.89
VAV-102	115	115	125	5	28	60	94	199	47	100	HC-102	0.87	3.0	0.02	0.35
VAV-103	114	114	125	5	21	45	71	151	36	75	HC-103	0.48	1.6	0.01	0.19
VAV-104	111	102,110, 111,112	175	7	68	144	226	479	113	240	HC-104	1.52	5.2	0.04	0.60
VAV-105	108	104	175	7	64	135	212	449	106	199	HC-105	1.26	4.3	0.03	0.50
VAV-106	108	106	125	5	28	60	94	199	47	100	HC-106	1.16	4.0	0.03	0.46
VAV-107	108	107,108	125	5	23	48	76	161	38	81	HC-107	0.67	2.3	0.02	0.27
VAV-108	117	136	200	8	52	111	174	369	87	184	HC-108	1.17	4.0	0.03	0.46
VAV-109	126	126	175	7	56	120	188	399	94	199	HC-109	1.26	4.3	0.03	0.50
VAV-110	117	138	125	5	21	45	71	151	36	75	HC-110	0.48	1.6	0.01	0.19
VAV-111	117	117,135,137	225	9	53	113	178	377	89	189	HC-111	1.20	4.1	0.03	0.48
VAV-112	116	116	175	7	71	150	236	500	118	250	HC-112	1.58	5.4	0.04	0.63
VAV-113	128	127,128,129,130	175	7	54	114	180	382	90	191	HC-113	1.21	4.1	0.03	0.48
VAV-114	130	113	350	14	283	600	944	2001	472	1001	HC-114	7.49	25.5	0.19	2.98
VAV-115	117	118	125	5	21	45	71	151	36	75	HC-115	0.48	1.6	0.01	0.19

Packaged Energy Recovery Ventilator Unit Schedule (ERV-1)

Design is based on Daikin CAH006GVAC . Exhaust air tunnel: MERV 8 filter, heat wheel and exhaust fan. Supply air tunnel: MERV 8 filter, heat wheel and supply fan. ERV to have double wall construction with minimum R value of R-13. Fan and drive to be internally spring isolated, complete with flexible duct connections, 50 mm deflection spring isolators and factory installed concrete inertia bases under fan. Access to be hinged doors complete with 1/4 turn fasteners, all access and fan sections. Provide Stainless Steel drain pans under energy recovery wheel. All remote dampers and associated actuators shall be by controls, internal actuators shall be supplied and mounted by manufacturer, backdraft damper on exhaust duct to be shipped loose and field installed. Unit to be mounted on 100 mm high housekeeping pad. Fan Performance based on the following filter APDs: 50mm (2") Winter or Summer Prefilter Based on a Mean APD of 142 Pa (.57"). Energy recovery is based on summer exhaust air of 23.9 Deg.C. DB (75 Deg.F.) / 17.2 Deg.C. WB (63 Deg.F.) and winter exhaust air of 21.1 Deg.C. DB (70 Deg.F.) / 12.2 Deg.C. WB (54 Deg.F.). Energy recovery is based on summer outside air of 31.1 Deg.C. DB (88 Deg.F.) / 19 Deg.C. WB (66 Deg.F.) and winter outside air of -40 Deg.C. DB (-40 Deg.F.). Unit to be complete with touchscreen unit controller with associated sensors. Controls contractor to provide wiring from sensors to unit controller. ERV to be interfaced to air handling unit AHU-2. Refer to sequence of operation in Section 25 90 00.

Fan Data													Electrical			
	Size		Fan		Airflow		TSP		ESP			H.P.			Current		
Tag	mm	in	Type	Class	L/S	(CFM)	Pa	in. w.c.	Pa	in. w.c.	Control	kW	hp	V / Hz / P	Control	LRC	FLA	V / Hz / P
ERV S/A	610	(24.0)	DWDI	II	1200	(2500)	665	(2.67)	249	(1.00)	PKGD	1.492	(2)	208/60/3	DDC	47.7	5.5	208/60/3
ERV E/A	610	(24.0)	DWDI	II	1200	(2500)	665	(2.67)	249	(1.00)	PKGD	1.492	(2)	208/60/3	DDC	47.7	5.5	208/60/3
ER wheel	762	(30.0)									VFD - PKGD	0.373	(0.5)	230/60/1	DDC			

Summer Energy Recovery

Outside Air (Before Energy Exchange)								Energy Exchanged				Supply Air (After Energy Exchange)							
Airflow		EAT DB		EAT WB		ESP		Capacity		Sens. Eff.	Lat. Eff.	Airflow		LAT DB		LAT WB		SP	
L/S	(CFM)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Pa	in. w.c.	kW	(MBH)	%	%	L/S	(CFM)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Pa	in. w.c.
1200	(2500)	31.1	(88)	18.9	(66)	249	(1.000)	7.1	(24.4)	67.26	61.18	1200	(2500)	26.3	(79)	18.6	(65)	251	(1.010)

Winter Energy Recovery

Outside Air (Before Energy Exchange)								Energy Exchanged				Supply Air (after energy exchange)							
Airflow		EAT DB		EAT WB		ESP		Capacity		Sens. Eff.	Lat. Eff.	Airflow		LAT DB		LAT WB		SP	
L/S	(CFM)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Pa	in. w.c.	kW	(MBH)	%	%	L/S	(CFM)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Pa	in. w.c.
1200	(2500)	-40.0	(-40)	-40.0	(-40)	249	(1.000)	75.7	(258.5)	69.89	64.19	1200	(2500)	2.7	(36.9)	2.0	(35.6)	289	(1.160)

Pump Schedule

Design based on Taco centrifugal type with mechanical seals compatible with glycol for Heating pumps and Bell and Gossett inline bronze type for domestic water use. Cast iron construction for space heating, all bronze construction for domestic water use. In-line pumps shall be supported from the floor with pipe stands or supported from structure with hangers. Frequency drives to be supplied and mounted by mechanical. Electrical to provide power wiring to VFD and from VFD to motor.

Pump Data								Fluid Flow				Motor			
								Flow		S.P.			H.P.		
Tag	Service	Loation	Type	Model	Flange Size	RPM	Medium	L/S	(GPM)	kPa	ft. w.c.	Control	kW	hp	V / Hz / P
P-1, P-2, P-3 & P-4	Boiler Circ pumps	201	Wet Rotor Inline	VR3452-FC1A01	1-1/2	3250	30% PG	1.39	(22.0)	53.8	(18.0)	ECM - EMCS	0.19	(1/4)	115/60/1
P-5A and P-5B	Main heating pumps	201	Vertical Inline	SKV2009	3	1760	30% PG	5.55	(88.0)	172.1	(60.0)	VFD - SELF	2.24	(3)	208/60/3
P-6A and P-6B	Low temp heating pumps	201	Vertical Inline	SKV2009	3	1760	30% PG	5.17	(82.0)	149.4	(50.0)	VFD - SELF	2.24	(3)	208/60/3
P-7	AHU-1 Coil	201	Wet Rotor Inline	2400-50	1-1/2	3450	30% PG	1.32	(21.0)	89.6	(30.0)	CV -EMCS	0.37	(1/2)	115/60/1
P-8	AHU-2 Coil	201	Wet Rotor Inline	2400-45	1-1/2	3450	30% PG	0.95	(15.0)	74.7	(25.0)	CV -EMCS	0.25	(1/3)	115/60/1
P-9	Domestic Recirc	201	Wet Rotor Inline	B&G ecocirc XL 36-45	1	4600	Water	0.32	(5.0)	80.7	(27.0)	ECM-SELF	0.12	(1/6)	115V/60/1

Domestic Water Booster Pump: Design based on ITT booster package model Technoforce 10SV duplex VS variable speed packaged domestic pressure booster system with vertical multi-stage pump. Provide pressure bypass for low flow control. Pump system including all pumps to operate from integral system controls. Each pump to be complete with integral dedicated VFD control. Unit to be complete with Technologic 1500 series pump controller, isolation valves, and check valve on pump discharge. Controller to be complete with all standard features and no-flow shutdown, low suction pressure cut-out, high system pressure alarm, audible alarm with reset, automatic AFD bypass, and system differential pressure sensor. Minimum pump efficiency: 69%.

P-10A and P-10B	Domestic Booster	201	Refer to Description		1800	Water	1.58	(25.0)	227.1	(76.0)	VFD - Self	0.56	(3/4)	208/60/3

Definitions
PG - Propylene Glycol
EG - Ethylene Glycol

Definitions
VFD- Variable Frequence Drive
CV- Constant Volume
EMCS- Division 25
SELF- Pump controller
ECM- Electronically communicated motor

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1	ISSUED FOR TENDER	18/10/19
Revision/ Revision	Description/Description	Date/Date
Client/client		

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
TKC

Drawn by/Dessine par
JDL

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie

Client/client

Drawing title/Titre du dessin

EQUIPMENT SCHEDULE

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	M1.2	0

PWGSC – A1 – 841X594

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

A000

Cross Talk Silencer Schedule

Design based on VAW Systems. Cross Talk Silencer are constructed of 22 gauge galvanized steel casing, 22 gauge galvanized steel perforated liner, fiberglass accoustic media, and 3" slip connections.

General Information						Airflow		Pressure Drop		Minimum Required Attenuation							
Tag	Model Number	Room Served	Silencer Cross Section (W x H) mm	Silencer Length mm	Silencer Configuration	Airflow L/S	Airflow (CFM)	Pressure Drop Pa	Pressure Drop in. w.c.	Octave Band 63	125	250	500	1k	2k	4k	8k
SIL-1	XTS-U	Room 107	450 x 200	1200	U Configuration	52	(110)	8	0.03	8	16	29	34	41	38	35	25
SIL-2	XTS-U	Room 104	550x300	1200	U Configuration	212	(449)	8	0.03	8	16	29	34	41	38	35	25
SIL-3	XTS-Z	Room 114	300x300	1200	Z Configuration	71	(151)	8	0.03	8	16	29	34	41	38	35	25
SIL-4	XTS-Z	Room 119	600x300	1200	Z Configuration	236	(500)	8	0.03	8	16	29	34	41	38	35	25
SIL-5	XTS-Z	Room 123	600x300	1200	Z Configuration	190	(403)	8	0.03	8	16	29	34	41	38	35	25
SIL-6	XTS-U	Room 138	450 x 250	1200	U Configuration	71	(151)	8	0.03	8	16	29	34	41	38	35	25
SIL-7	XTS-Z	Room 116	600x300	1200	Z Configuration	236	(500)	8	0.03	8	16	29	34	41	38	35	25
SIL-8	XTS-Z	Room 127	300x300	1200	Z Configuration	94	(199)	8	0.03	8	16	29	34	41	38	35	25
SIL-9	XTS-U	Room 148/134	400 x 200	1200	U Configuration	54	(114)	8	0.03	8	16	29	34	41	38	35	25
Duct Silencer Schedule																	
Duct Silencer are constructed of 18 gauge galvanized steel casing, 22 gauge galvanized steel perforated liner, fiberglass accoustic media, medial liner (tedlar or mylar) and 2" slip connections.																	
SIL-10	26 CSA-42V90	AHU-2	1050	3000	Straight	3396	(7200)	26	0.10	8	21	22	24	26	31	28	23
SIL-11	REL-32V80	AHU-2	800x550	3000	Z Configuration	3396	(7200)	42	0.17	11	19	19	25	35	27	21	19
SIL-12	REL-15V30	Room 140	200x200	2400	straight	24	(51)	8	0.03	8	16	29	34	41	38	35	25

EQUIPMENT SCHEDULE CONT'D:

DIFFUSERS AND GRILLES:

T-1: E.H. Price, Model 80/TB/B12, eggcrate face return, t-bar lay-in, white powder coat finish.

T-2: E.H. Price, Model 80/F/A/B12, eggcrate face return, surface mounted, countersunk screwholes, white powder coat finish. Install grille with pinned torx security screws.

T-3: E.H. Price, Model 530/F/L/A/B12, deflection louvered return grille, surface mounted, front blades parallel to long dimension, countersunk screwholes, white powder coat finish.

FIRE RATED DUCT WRAP:

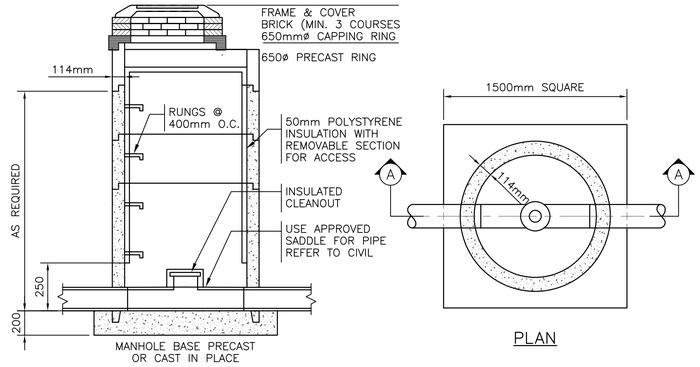
Flexible high temperature insulation rated to 2192°F (1200°C) that is fully encapsulated in FSP facing. The duct enclosure system shall be listed by ULC per ASTM E 2336, CAN/ULC S144 and ISO 6944 for 1-, 2- and 3-hour rating and zero clearance to combustibles, and tested per ASTM E84 for a flame/smoke rating less than 25/50. Insulation shall have a nominal thickness of 1-1/2 inches (38 mm) and density of 6 lbs/ft3 (96 kg/m3). Insulation shall have a R-Value of 7.3 at 75°F. Installation shall be in strict accordance to manufacturers published installation instructions, ULC Listings, and shop drawings. Design is based on Firemaster FastWrap XL

SOIL GAS COLLECTOR SYSTEM: Professional Discount Supply Soil Gas Collector, comprised of soil gas mat collector and matched riser. Soil gas mat to be installed on ground below fill material and crawlspace membrane. Soil Gas Collector Core to be A polystyrene core with a compressive strength of 4300 PSF in accordance with ASTM D-1621 (Modified). Core to be a double sided waffle like geometry 3/4" x 5/8". Soil Gas Collector Binding to be sewn with nylon thread.

LEGEND

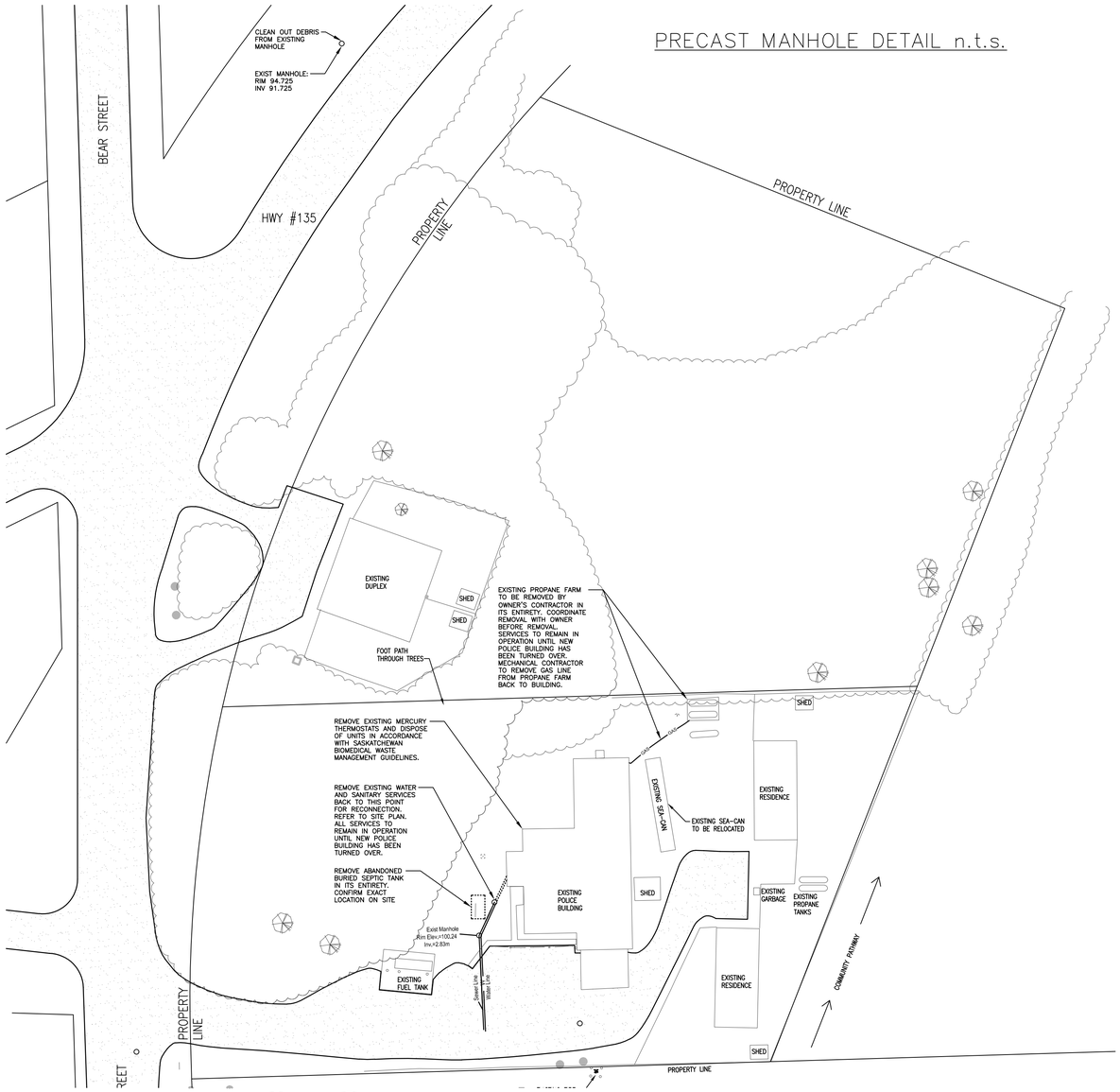
CHW	DOMESTIC COLD HARD WATER
HHW	DOMESTIC HOT HARD WATER
RECIRC	DOMESTIC HOT WATER RECIRC
SAN	DOMESTIC SANITARY WASTE
STORM	DOMESTIC SANITARY STORM
FIRE	FIRE PROTECTION PIPING
GAS	NATURAL GAS
HWS	HYDRONIC HOT WATER SUPPLY
HWR	HYDRONIC HOT WATER RETURN
LIQD	REFRIGERANT LIQUID
SUCT	REFRIGERANT SUCTION
	ELBOW UP
	ELBOW DOWN
	GATE VALVE (UNLESS NOTED OTHERWISE)
	CHECK VALVE
	FLOW RESTRICTOR
	GAS ISOLATION VALVE
	HOSE BIBB
	PUMP
M	WATER METER
R	GAS REGULATOR
M	GAS METER
	CLEAN OUT
	PRESSURE GAUGE
	THERMOMETER
	CIRCUIT BALANCE VALVE
T	THERMOSTAT
S	GAS DETECTION SENSOR
F	FAN SWITCH

FD	FIRE DAMPER
M	MOTORIZED DAMPER
	MANUAL BALANCE DAMPER
	INTERNALLY INSULATED DUCT
	EXTERNALLY INSULATED DUCT
	SUPPLY DUCT SECTION
	RETURN DUCT SECTION
	EXHAUST DUCT SECTION



SECTION 'A-A'

PRECAST MANHOLE DETAIL n.t.s.



1 SITE PLAN - DEMOLITION
1:500

NORTH

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

PWGSC - A1 - 841X594

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Association of Professional Engineers & Geoscientists of Saskatchewan
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Revision/ Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	18/10/19

Client/client

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
TKC

Drawn by/Dessine par
JDL

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

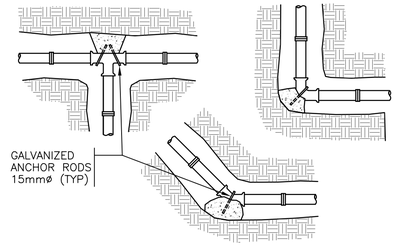
Client/client

Drawing title/Titre du dessin

SITE PLAN - DEMOLITION
EQUIPMENT SCHEDULE

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	M1.3	0

A000



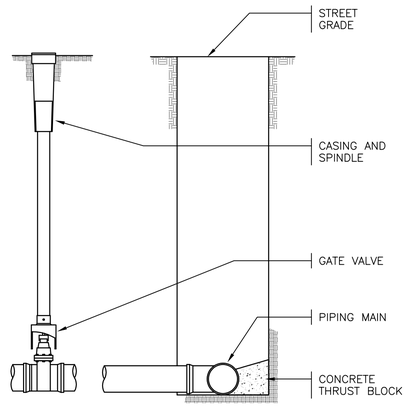
MINIMUM AREA OF CONCRETE THRUST BLOCK FROM FITTING TO SOLID GROUND

(CONCRETE STRENGTH 20MPa @ 28 DAYS)

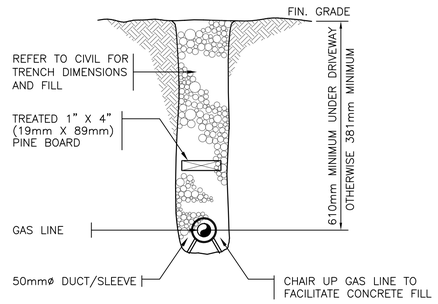
SIZE OF PIPE	45° BEND	90° BEND	TEE
100 mm	7 dm SQ	20 dm SQ	10 dm SQ
150 mm	20 dm SQ	27 dm SQ	20 dm SQ
200 mm	27 dm SQ	47 dm SQ	37 dm SQ
250 mm	42 dm SQ	74 dm SQ	54 dm SQ

NOTE: ALL UNITS ARE IN SQUARE DECIMETERS

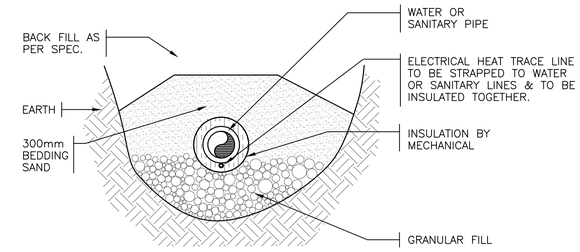
THRUST BLOCK DETAIL n.t.s.



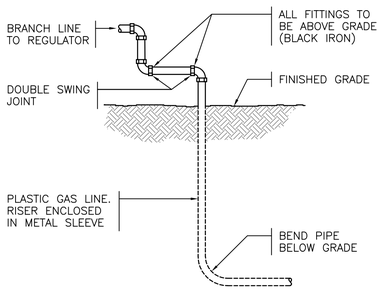
CURB STOP/BURIED VALVE INSTALLATION n.t.s.



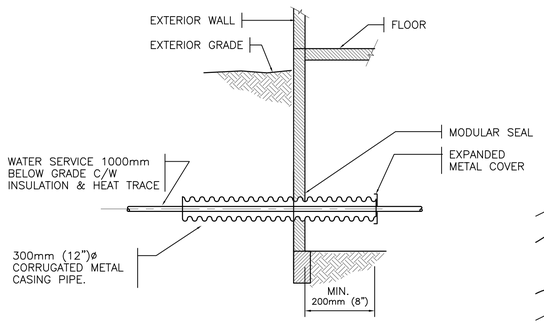
BURIED GAS LINE DETAIL n.t.s.



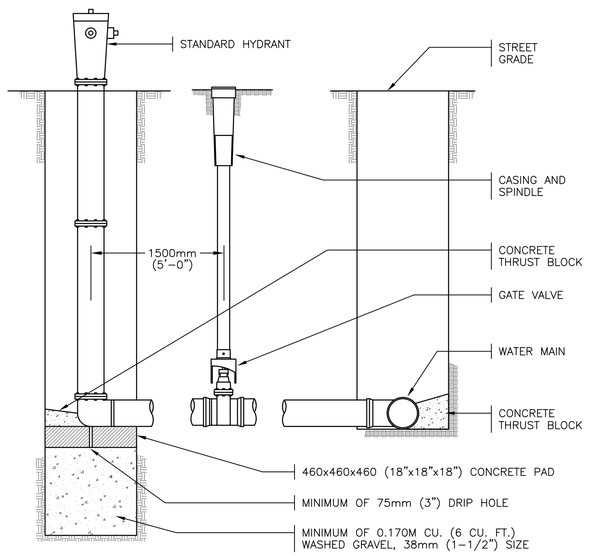
BURIED WATER/SANITARY LINE DETAIL n.t.s.



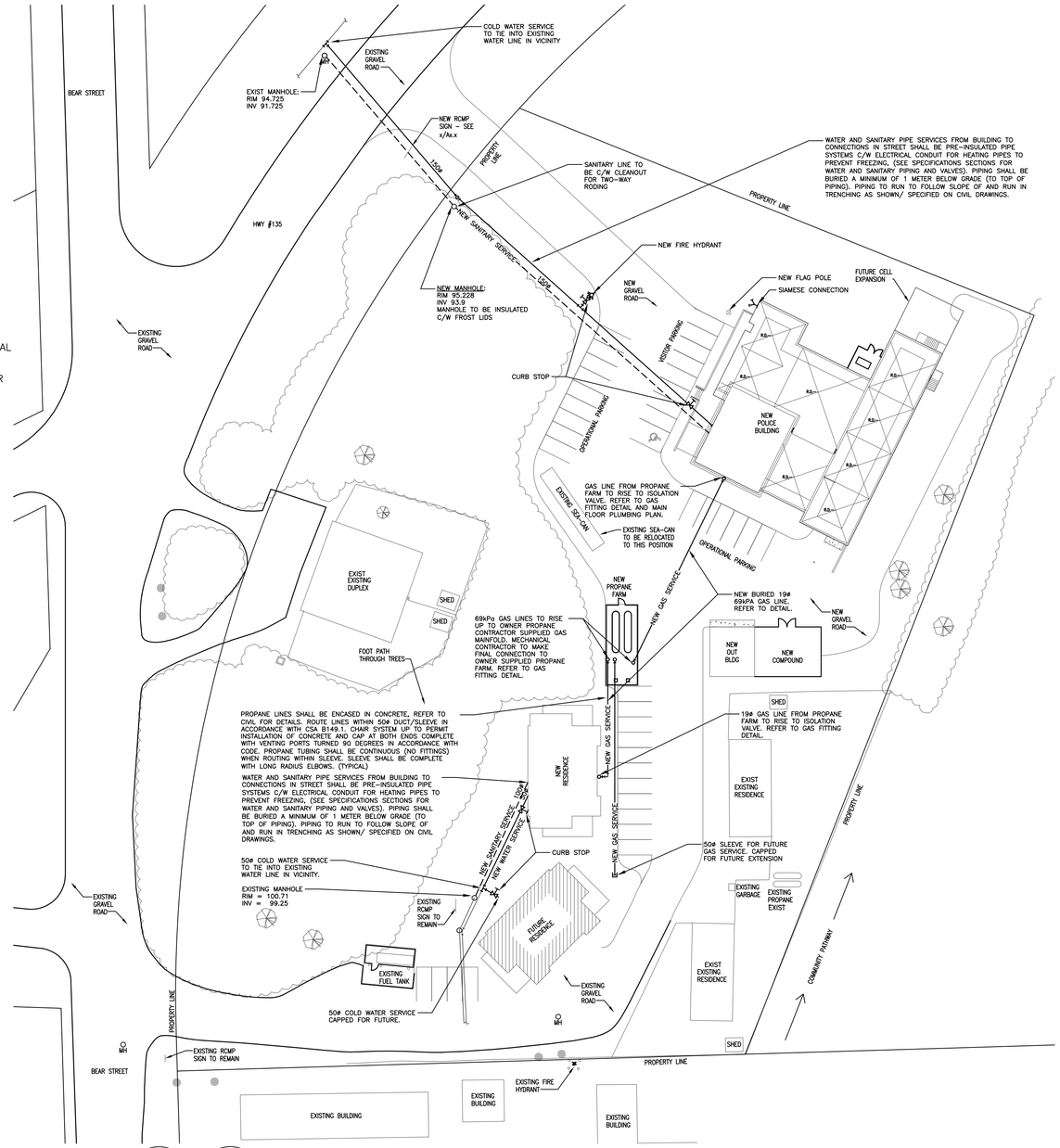
GAS FITTING DETAIL – nts



WATER SERVICE ENTRY DETAIL n.t.s.



FIRE HYDRANT STANDARD INSTALLATION n.t.s.



NORTH

1 SITE PLAN
1:500

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

PWGSC – A1 – 841X594

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Architectural and Engineering Resources Manager/ Ressources Architecturat et de Directeur d'Ingénierie

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SITE PLAN
DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	M1.4	0

A000

PLUMBING GENERAL NOTES:

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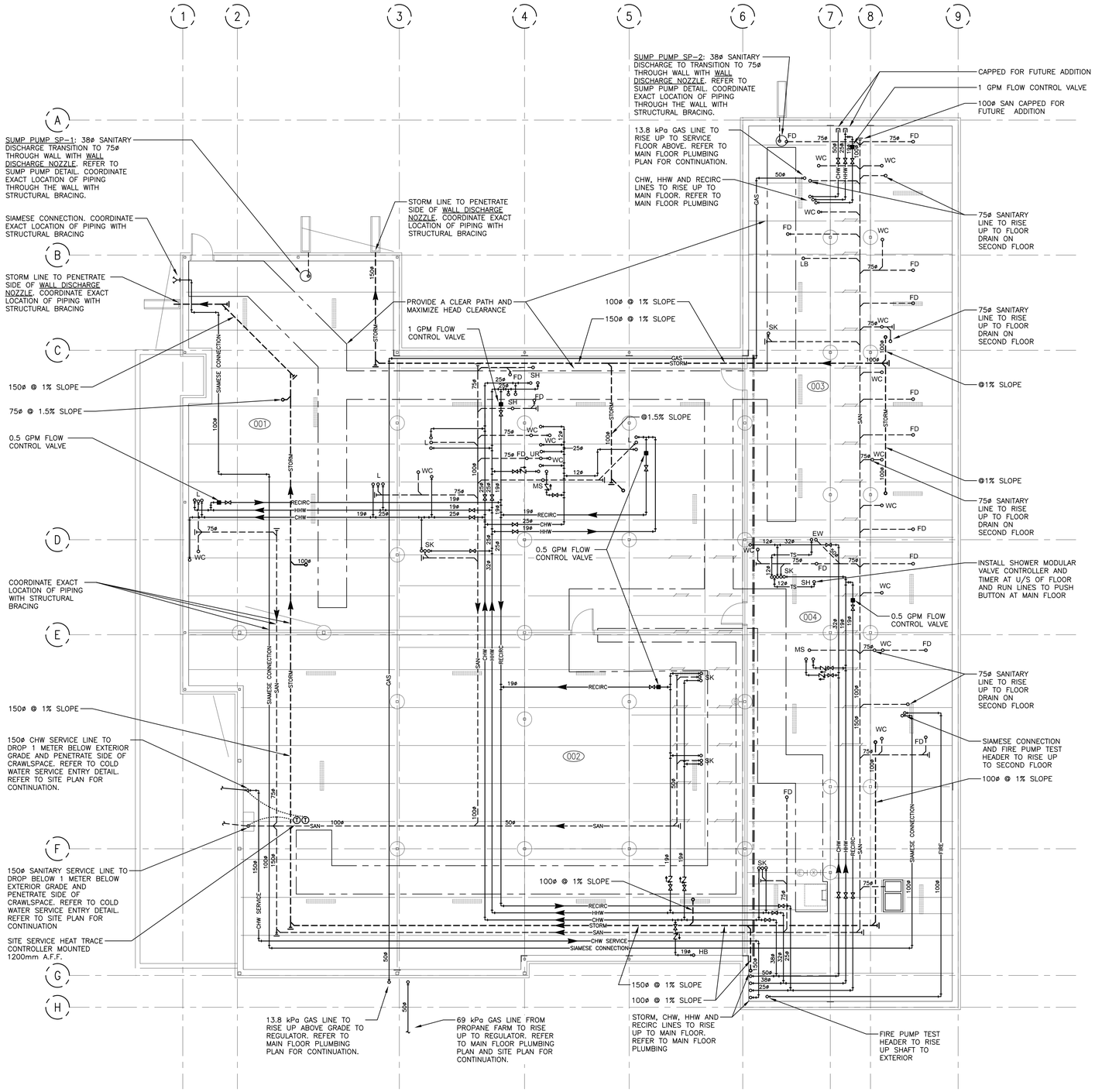

1 CRAWLSPACE PLAN
1:100

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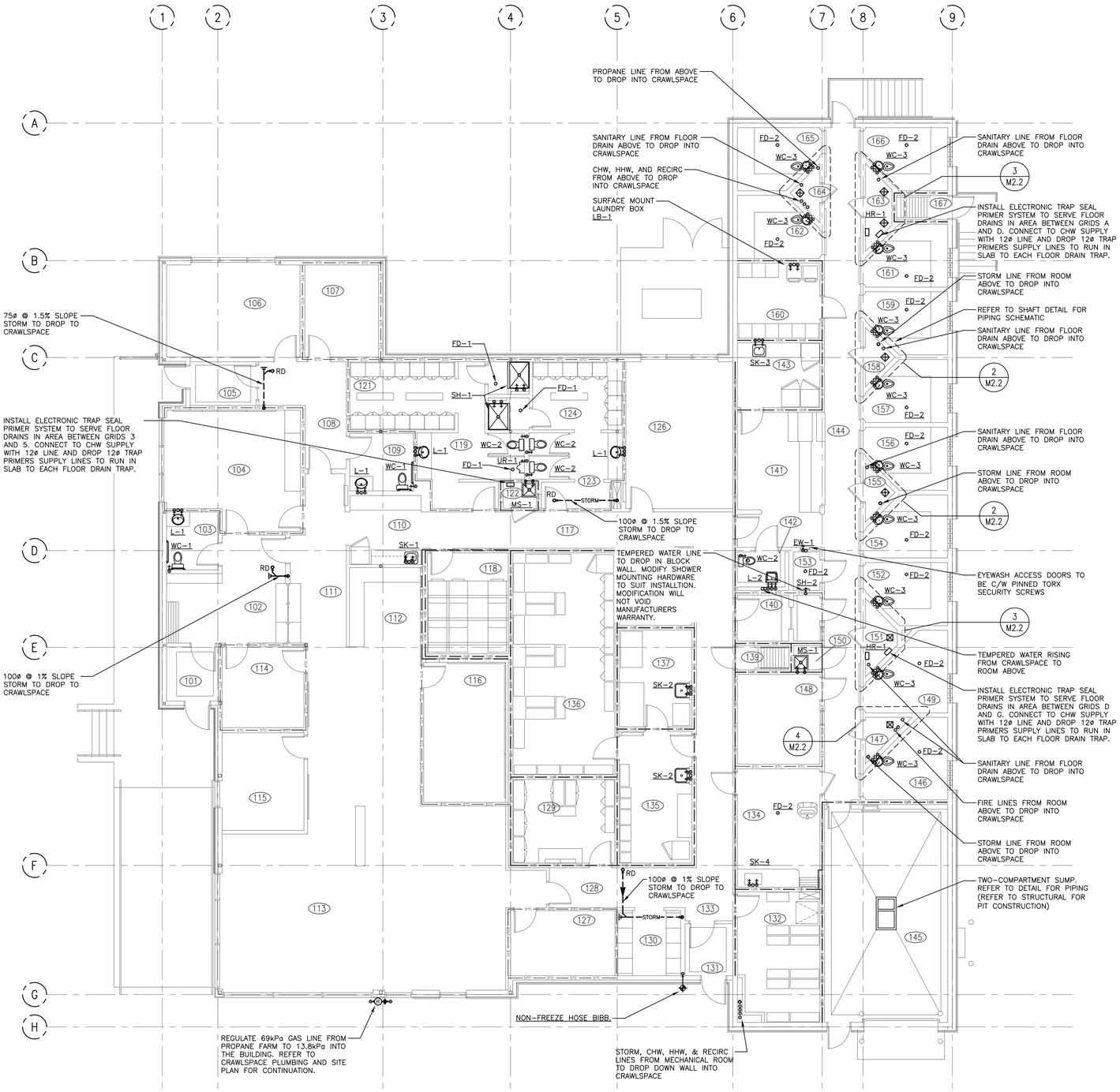
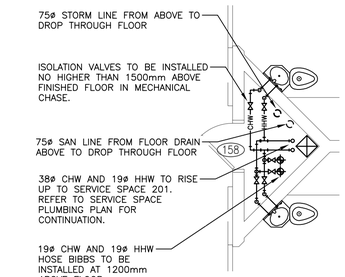
CRAWLSPACE PLAN
PLUMBING

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	M2.1	0

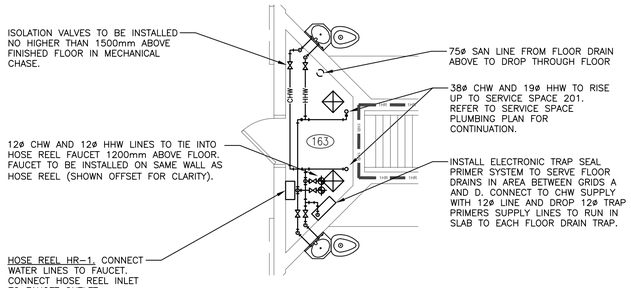


NORTH

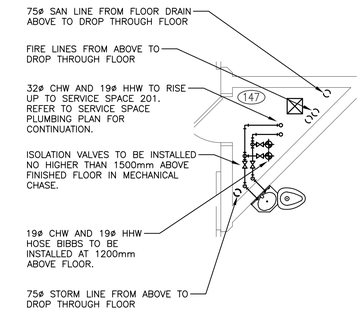
1 MAIN FLOOR PLAN
1:100



2 CELL SHAFT DETAIL – PLUMBING
1:100



3 CELL SHAFT DETAIL – PLUMBING
1:100



4 CELL SHAFT DETAIL – PLUMBING
1:100

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NEW POLICE BUILDING

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TKC

Drawn by/Dessine par
JDL

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

MAIN FLOOR PLAN
PLUMBING

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	M2.2	0

PWGSC – A1 – 841X594

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

A000

KEY NOTES:

A. 50ø SANITARY STANDPIPE 900mm ABOVE FINSHED FLOOR. DRAIN LINE FROM HRV TO DRAIN INTO STANDPIPE.
B. 50ø CHW SERVICE TO DROP BELOW GRADE. REFER TO COLD WATER SERVICE ENTRY DETAIL. REFER TO SITE PLAN FOR CONTINUATION
C. 100ø SANITARY SERVICE TO DROP BELOW GRADE. REFER TO SITE PLAN FOR CONTINUATION
D. COLD WATER SUITE ISOLATION VALVE
E. SUMP PUMP SP-3: REFER TO SUMP PUMP DETAIL.
F. 38ø SANITARY DISCHARGE UP FROM CRAWLSPACE TO TRANSITION TO 75ø THROUGH WALL WITH WALL DISCHARGE NOZZLE 900mm ABOVE GRADE.
G. SITE SERVICE HEAT TRACE CONTROLLER MOUNTED 1200mm A.F.F.
H. GAS LINE TO RISE UP ABOVE GRADE TO ISOLATION VALVE. REFER TO MAIN FLOOR PLUMBING PLAN FOR CONTINUATION.
I. 69kPa GAS LINE FROM PROPANE FARM TO RISE TO ISOLATION VALVE & REGULATOR AND DROP BELOW GRADE TO ROUTE INTO THE CRAWLSPACE. REFER TO CRAWLSPACE PLUMBING PLAN. REFER TO GAS FITTING DETAIL.
J. 75ø SANITARY LINE TO DROP/RISE IN WALL
K. 19ø GAS LINE TO SUITE. 12ø GAS LINE TO WATER HEATER. 12ø GAS LINE TO FURNACE.
L. NON-FREEZE HOSE BIBB
M. 19ø HOT AND COLD PIPING TO RISE UP INTO MECHANICAL ROOM ABOVE TO TIE INTO DOMESTIC WATER HEATER
N. 25ø COLD LINE TO RISE UP THROUGH MAIN FLOOR TO SECOND FLOOR MECHANICAL ROOM
O. CONDENSATE DRAIN FROM FURNACE TO DRAIN TO NEAREST FLOOR DRAIN C/W AIR GAP.
P. DRAIN FROM PAN UNDER HOT WATER TANK TO BE PIPED TO NEAREST FLOOR DRAIN C/W AIR GAP.
Q. L-1: LAVATORY
R. WC-1: WATER CLOSET
S. TB-1: TUB/SHOWER
T. SK-5: DOUBLE COMPARTMENT SINK
U. FD-1: (WOOD FLOOR) FLOOR DRAIN
V. LB-1: LAUNDRY BOX. CONNECT TO OWNER SUPPLIED WASHER
W. F-1: GAS FIRED DOWNFLOW FURNACE
X. HRV-1: HEAT RECOVERY VENTILATOR
Y. DHW-3: GAS FIRED DOMESTIC HOT WATER HEATER

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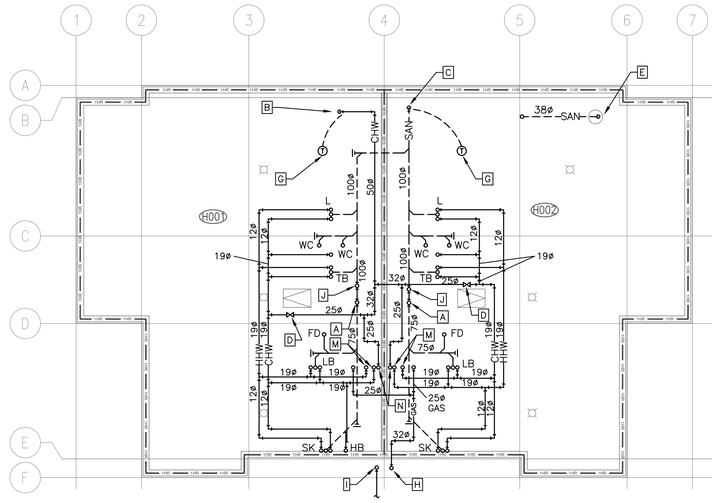
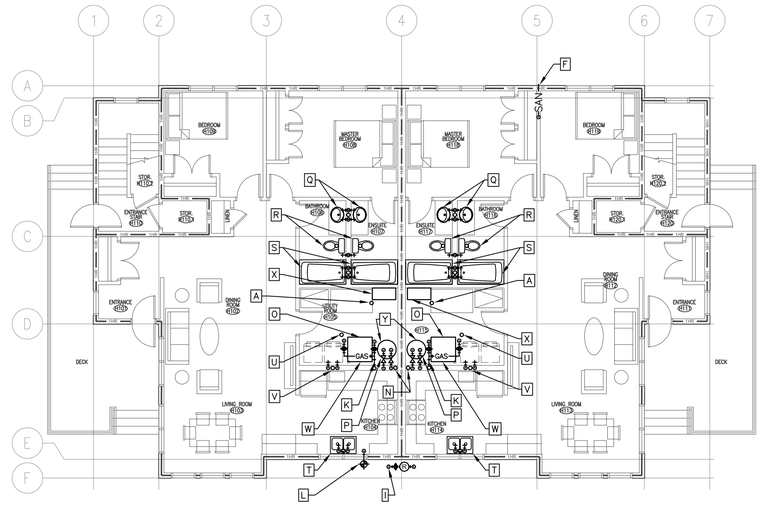


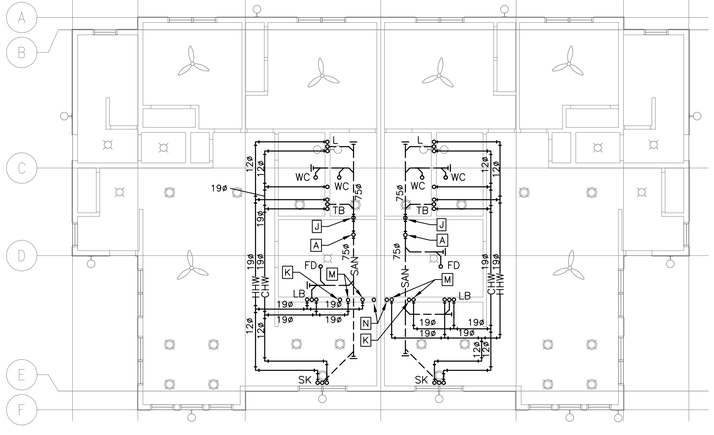
NORTH

1 CRAWLSPACE PLAN
1:100



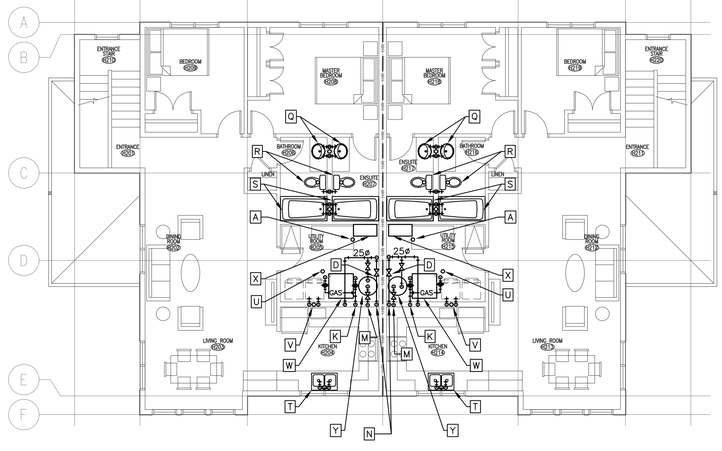
NORTH

2 MAIN FLOOR PLAN
1:100



NORTH

3 MAIN FLOOR CEILING PLAN
1:100



NORTH

4 SECOND FLOOR PLAN
1:100

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Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

HOUSING FLOOR PLANS
PLUMBING

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	M2.3	0

PWGSC – A1 – 841X594

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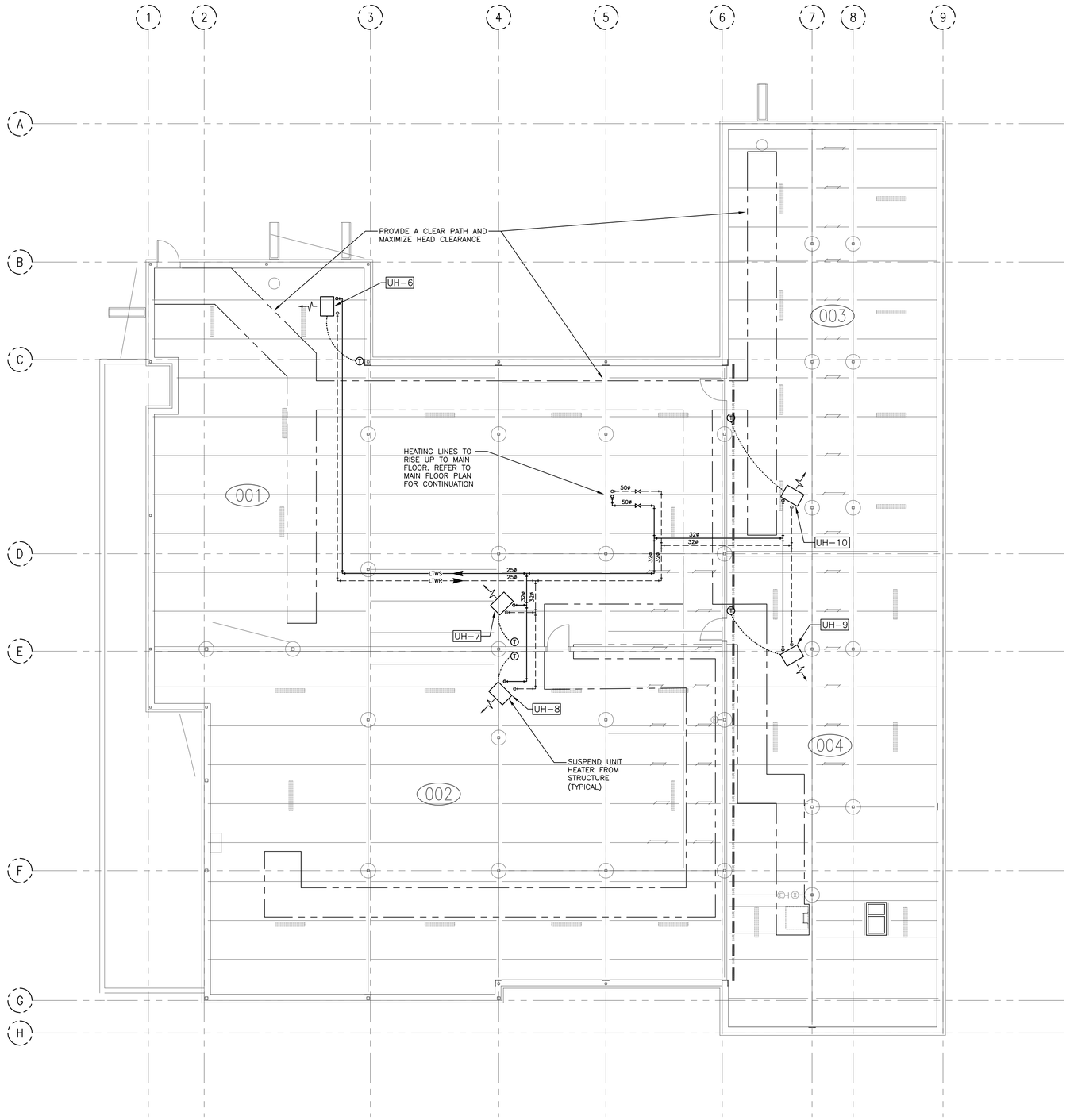

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– RUN PIPING AS HIGH AS POSSIBLE.

– INSTALL AUTO AIR VENTS WITH PET COCKS AT ALL HIGH POINTS IN THE SYSTEM PIPING.

– REFER TO DETAIL SHEETS FOR EQUIPMENT CONNECTIONS.

– ALL RUNOUTS TO REHEAT COILS, AND INFLOOR MANIFOLDS TO BE 19ø UNLESS NOTED OTHERWISE. ALL RUNOUTS TO UNIT HEATERS AND FORCE FLOWS TO BE 25ø UNLESS NOTED OTHERWISE.

NORTH

1 MAIN FLOOR PLAN
1:100

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CRAWLSPACE PLAN
HEATING

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	M3.1	0

PWGSC – A1 – 841X594

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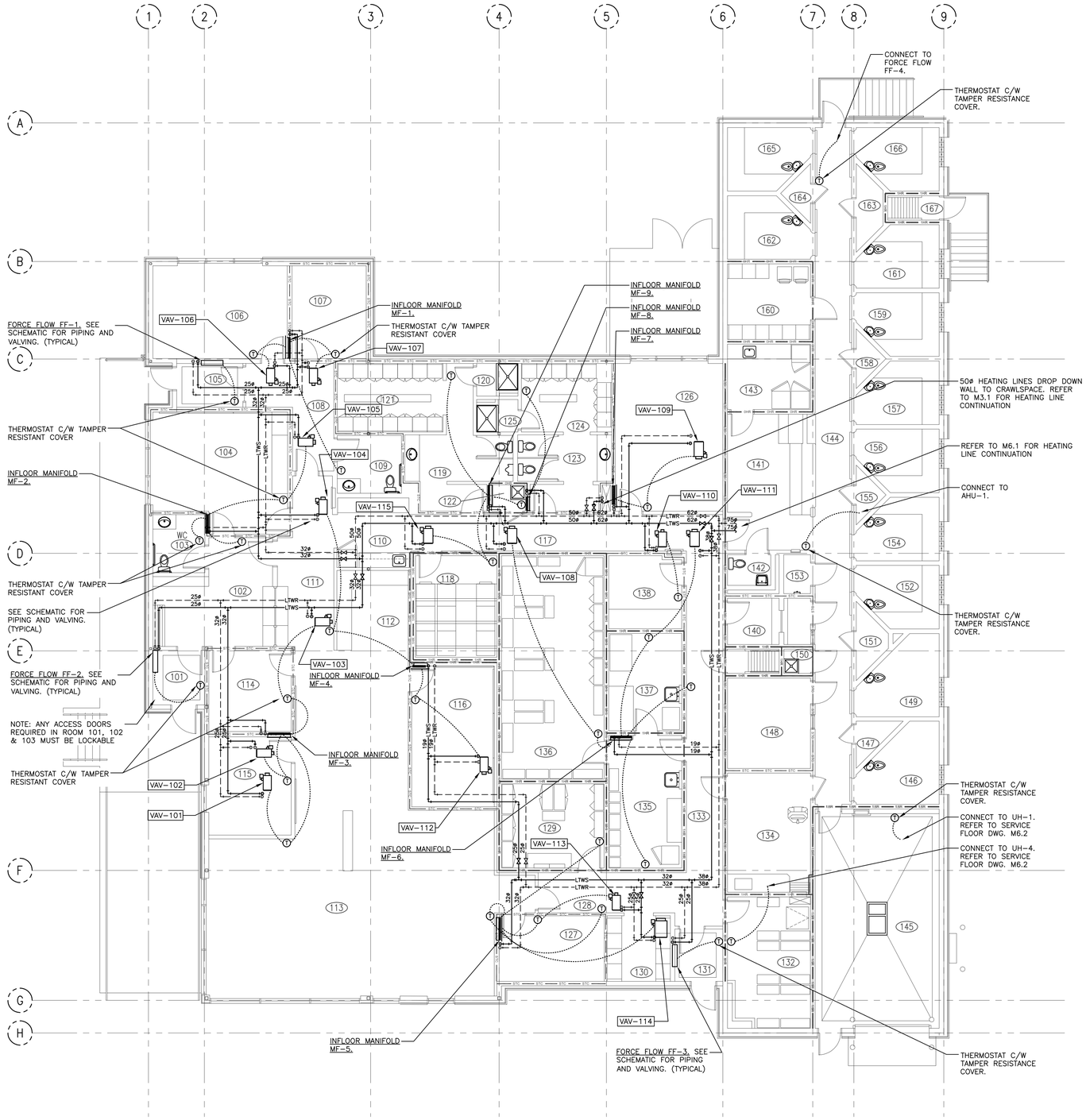

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MAIN FLOOR PLAN
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PWGSC – A1 – 841X594

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

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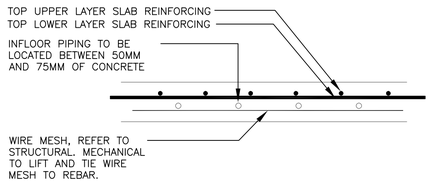
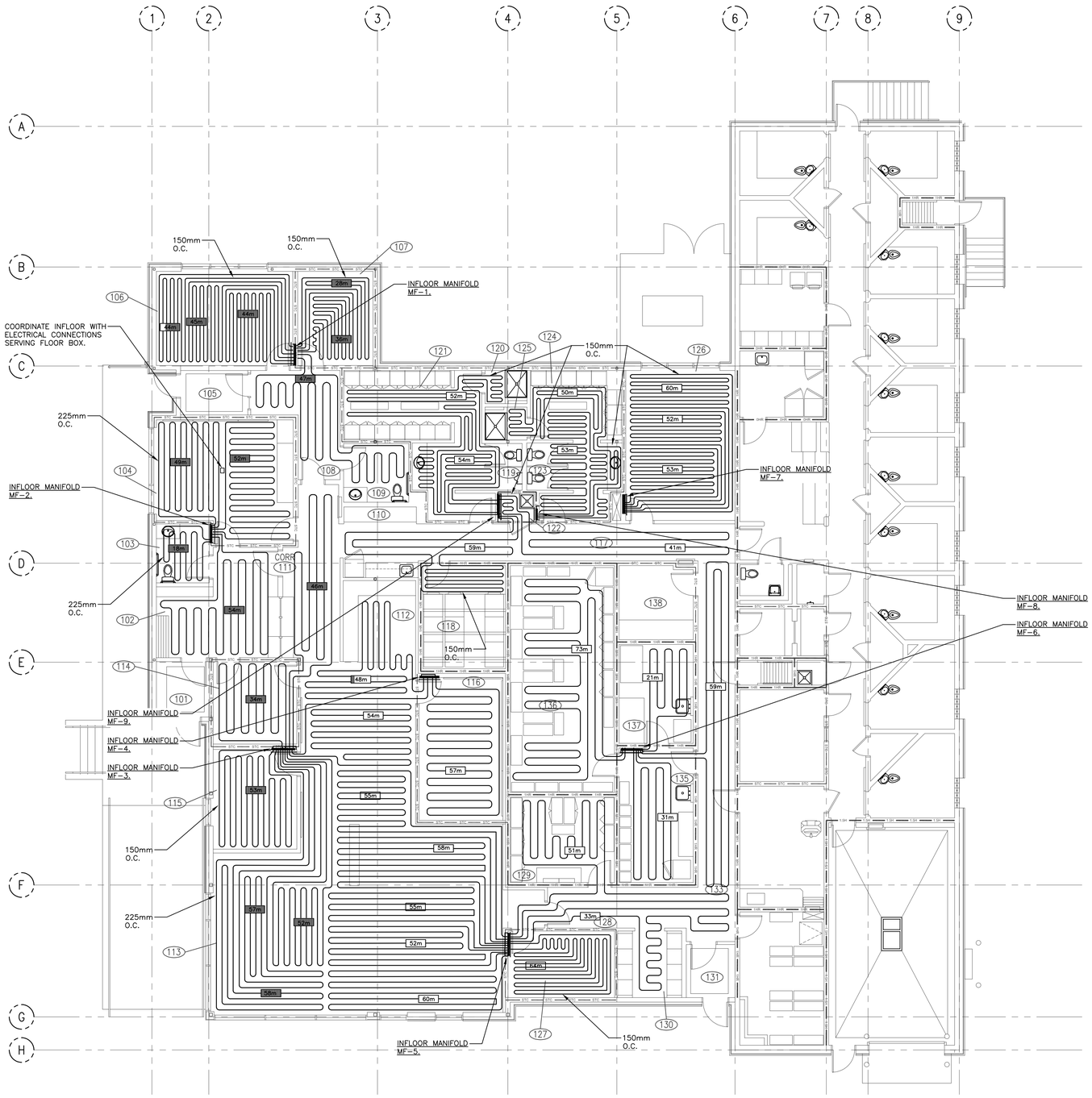
Infloor Schedule

Manifold design based on Uponor cast bronze manifold complete with integral circuit balance valves, individual circuit control valves, actuators, support brackets, bushings, gaskets, end caps, pipe connectors, bend support, drains and vents. All in-slab heating piping to be Uponor Hepex cross-linked polyethylene pipe, 16 mm (5/8") nominal inside diameter. Circuits serving the same space to be equal length and flow. Capacity based on floor covering R-value of 0.5 with 51.6 deg.C (125 deg.F) EWT, 5.6 deg.C water temperature drop. Piping to be complete with oxygen diffusion barrier and to be installed in strict accordance with manufacturer's requirments.

General Information			Room Data							Circuit Data				
Manifold Tag	Service	Access Location	Space Heat Loss kW	MBH	Total Pipe Length m	ft	Required BTU/sqft	Total Flow L/S	(GPM)	Circuit #	Pressure Drop kPa	ft. w.c.	Circuit Flow L/S	(GPM)
MF-1	106	106	2.27	7.7	135	443	35.0	0.10	1.6	3	3.2	1.1	0.03	0.5
MF-1	107	106	1.07	3.6	64	210	34.8	0.06	1.0	2	2.3	0.8	0.03	0.5
MF-1	108,109	106	0.20	0.7	47	154	4.4	0.03	0.5	1	3.3	1.1	0.03	0.5
MF-2	104	104	2.16	7.4	100	328	29.9	0.10	1.6	2	5.9	2.0	0.05	0.8
MF-2	103	104	0.45	1.5	18	59	35.0	0.03	0.5	1	1.3	0.4	0.03	0.5
MF-2	102	104	0.63	2.1	54	177	12.1	0.03	0.5	1	2.8	0.9	0.03	0.5
MF-3	114	115	0.16	0.5	34	112	4.7	0.03	0.5	1	2.4	0.8	0.03	0.5
MF-3	115	115	0.96	3.3	57	187	35.0	0.06	1.0	2	2.0	0.7	0.03	0.5
MF-3	113	115	5.58	19.0	221	725	35.0	0.25	4.0	4	11.6	3.9	0.06	1.0
MF-3	111	115	1.00	3.4	46	151	22.6	0.03	0.5	1	3.3	1.1	0.03	0.5
MF-4	116	116	0.16	0.5	57	187	2.8	0.03	0.5	1	4.1	1.4	0.03	0.5
MF-4	113	116	1.20	4.1	48	157	34.7	0.06	0.9	1	7.0	2.4	0.06	0.9
MF-5	127	127	0.82	2.8	64	210	26.6	0.03	0.5	1	4.6	1.5	0.03	0.5
MF-5	113	127	7.00	23.9	280	919	34.7	0.32	5.1	5	11.8	3.9	0.06	1.0
MF-5	128,130	127	0.33	1.1	33	108	10.5	0.03	0.5	1	2.4	0.8	0.03	0.5
MF-5	128,129	127	0.71	2.4	51	167	14.4	0.03	0.5	1	3.6	1.2	0.03	0.5
MF-6	135	135	0.29	1.0	31	102	9.6	0.03	0.5	1	2.2	0.7	0.03	0.5
MF-6	136	135	0.46	1.6	73	240	6.5	0.03	0.5	1	5.2	1.7	0.03	0.5
MF-6	137	135	0.28	1.0	21	69	14.0	0.03	0.5	1	1.5	0.5	0.03	0.5
MF-7	126	126	1.90	6.5	165	541	23.9	0.09	1.4	3	2.8	0.9	0.03	0.5
MF-8	123	123	1.31	4.5	103	338	26.4	0.06	1.0	2	2.6	0.9	0.03	0.5
MF-9	119	122	1.31	4.5	108	354	25.1	0.06	1.0	2	2.8	0.9	0.03	0.5
MF-9	117,122	122	0.17	0.6	42	138	4.3	0.03	0.5	1	3.0	1.0	0.03	0.5
MF-9	110,117,118	122	0.36	1.2	59	194	12.5	0.03	0.5	1	4.2	1.4	0.03	0.5



INFLOOR PIPING INSTALLATION DETAIL



GENERAL HEATING NOTES:

– ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

– COORDINATE ALL WORK WITH OTHER TRADES AND SITE CONDITIONS.

– RUN PIPING AS HIGH AS POSSIBLE.

– INSTALL AUTO AIR VENTS WITH PET COCKS AT ALL HIGH POINTS IN THE SYSTEM PIPING.

– REFER TO DETAIL SHEETS FOR EQUIPMENT CONNECTIONS.

– ALL RUNOUTS TO REHEAT COILS, AND INFLOOR MANIFOLDS TO BE 19ø UNLESS NOTED OTHERWISE. ALL RUNOUTS TO UNIT HEATERS AND FORCE FLOWS TO BE 25ø UNLESS NOTED OTHERWISE.

NORTH

1 MAIN FLOOR PLAN
1:100

SEPW Architecture Inc.
109 - 3725 Pasqua Street, Regina, SK, S4S 6W8 ph: (306) 569-2255
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MEMBER 11372
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Association of Professional Engineers & Geoscientists of Saskatchewan
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DO NOT SCALE DRAWINGS

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PELICAN NARROWS, SASKATCHEWAN

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Designed by/Concept par
TKC

Drawn by/Dessine par
JDL

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

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Drawing title/Titre du dessin

MAIN FLOOR PLAN
INFLOOR HEATING

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	M3.3	0

PWGSC – A1 – 841X594

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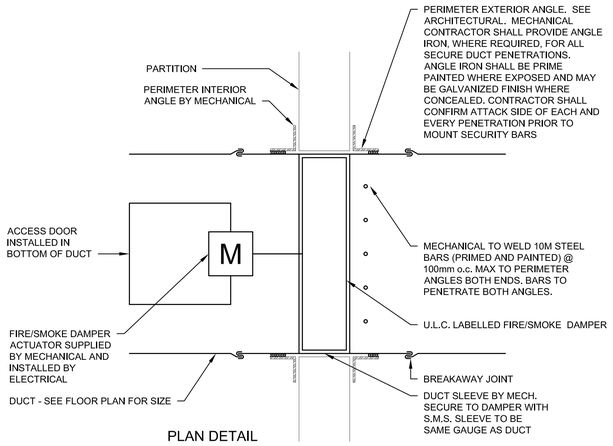
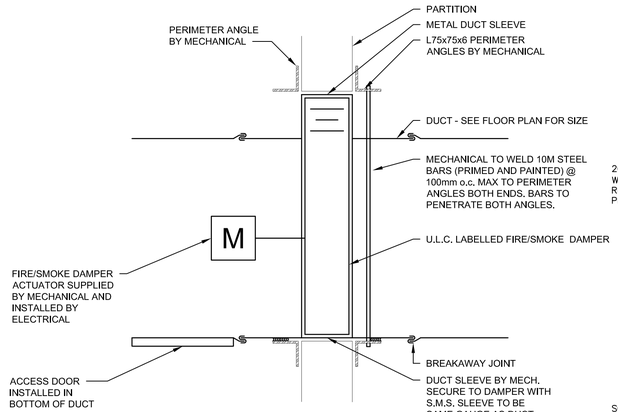
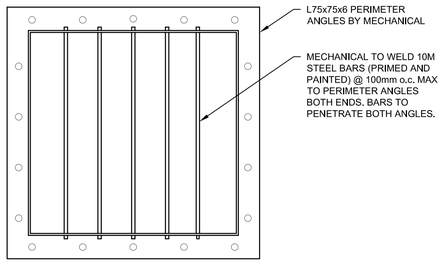


PLAN DETAIL



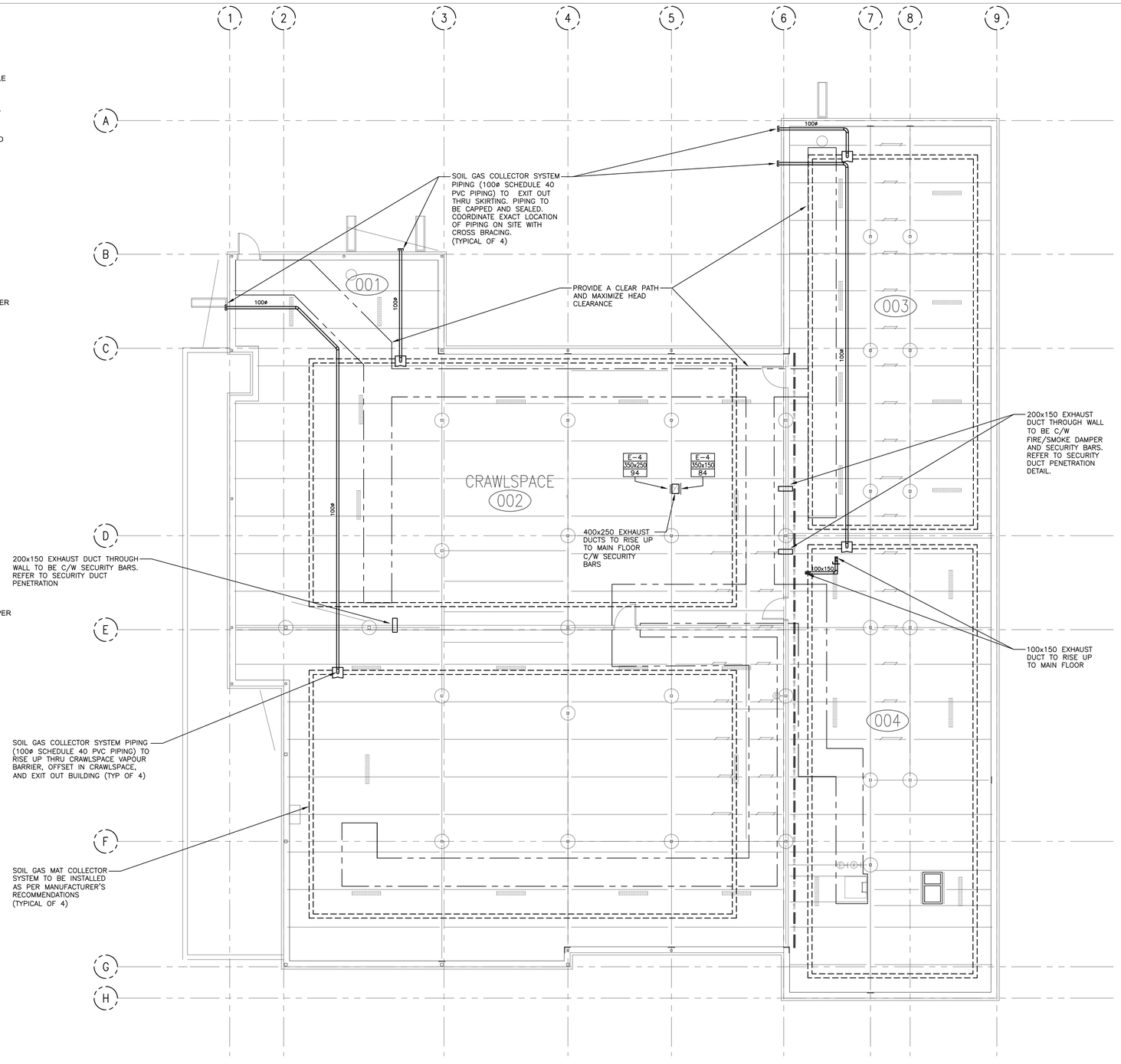
SECTION DETAIL



ELEVATION OF FRAME

SECURITY DUCT PENETRATION DETAIL n.t.s.
(FOR DUCTS LARGER THAN 300x300)

NOTE:
- MECHANICAL SHALL PROVIDE ANGLE IRONS, WHERE REQUIRED, FOR ALL SECURE DUCT PENETRATIONS. ANGLE IRONS SHALL BE PRIME PAINTED WHERE EXPOSED AND MAY BE GALVANIZED FINISH WHERE CONCEALED. CONTRACTOR SHALL CONFIRM ATTACK SIDE OF EACH AND EVERY PENETRATION PRIOR TO MOUNTING SECURITY BARS.
- WHEREVER PHYSICALLY POSSIBLE, THE FIRE OR FIRE/SMOKE DAMPER SHALL BE INSTALLED WITHIN THE PLANE OF THE FIRE SEPARATION. IF THERE ARE LOCATIONS WHERE OUT OF WALL FIRE DAMPERS ARE REQUIRED, REQUEST CONFIRMATION PRIOR TO COMMENCING WORK.



NORTH

1 CRAWLSPACE PLAN
1:100

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CRAWLSPACE PLAN VENTILATION

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	M4.1	0

PWGSC – A1 – 841X594

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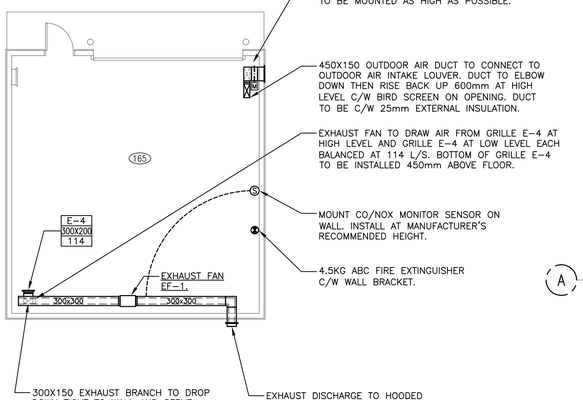


NORTH

1 OUT BUILDING PLAN
1:100

KEY NOTES:

A. REFER TO SERVICE SPACE PLAN FOR CONTINUATION. DUCT TO BE C/W FIRE DAMPER AND SECURITY BARS. REFER TO SECURITY DUCT PENETRATION DETAIL.
B. 800X550 RETURN AIR DUCT OPEN TO CEILING SPACE C/W FIRE DAMPER AND SECURITY BARS. REFER TO SECURITY DUCT PENETRATION DETAIL.
C. EXHAUST FAN EF-4 TO RISE UP AND DISCHARGE THRU ROOF WITH GOOSENECK. DISCHARGE FROM FAN COMPLETE WITH A MINIMUM OF TWO 90° ELBOWS.
D. 250X250 SUPPLY DUCT FROM MECHANICAL ROOM ABOVE. REFER TO SECOND FLOOR MECHANICAL ROOM PLAN FOR CONTINUATION.
E. CONNECT SWITCH TO EXHAUST FAN EF-5 IN SERVICE SPACE 201. INSTALL FAN SWITCH BETWEEN DOORS AND NEVER BLOCKED. FAN SWITCH TO BE STACKED ABOVE LIGHT SWITCH WHERE NECESSARY.
F. CONNECT SWITCH TO EXHAUST FAN EF-6 IN SERVICE SPACE 201. INSTALL FAN SWITCH BETWEEN DOORS AND NEVER BLOCKED. FAN SWITCH TO BE STACKED ABOVE LIGHT SWITCH WHERE NECESSARY.
G. CONNECT SWITCH TO EXHAUST FAN EF-7 IN SERVICE SPACE 201. INSTALL FAN SWITCH BETWEEN DOORS AND NEVER BLOCKED. FAN SWITCH TO BE STACKED ABOVE LIGHT SWITCH WHERE NECESSARY.
H. CONNECT SWITCH TO EXHAUST FAN EF-8 IN SERVICE SPACE 201. INSTALL FAN SWITCH BETWEEN DOORS AND NEVER BLOCKED. FAN SWITCH TO BE STACKED ABOVE LIGHT SWITCH WHERE NECESSARY.
I. SUPPLY DUCT TO RUN WITHIN BUNK ENCLOSURE.
J. CONNECT 150ø EXHAUST DUCT TO 150X150 EXHAUST GRILLE IN BULKHEAD ABOVE LOCKERS. ARCHITECT TO PROVIDE TRANSFER AIR VENTS AT THE TOP OF EACH LOCKER AND WITHIN EACH DOOR.
K. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF SUPPLY AND EXHAUST GRILLES WITHIN CELLS.
L. ALL DUCT PENETRATIONS THRU WALLS WITHIN THIS ROOM TO BE SECURED WITH REBAR. REFER TO SECURITY DUCT PENETRATION DETAIL.
M. CONNECT CROSS TALK SILENCER TO 600X300 R-1 RETURN GRILLE.
N. 450X600 OUTDOOR AIR INTAKE LOUVER COMPLETE WITH MOTORIZED DAMPER. LOUVER TO BE MOUNTED AS HIGH AS POSSIBLE.
O. 450X200 OUTDOOR AIR DUCT TO CONNECT TO OUTDOOR AIR INTAKE LOUVER. DUCT TO BE C/W 25mm EXTERNAL INSULATION.
P. SIDEWALL DRYER DISCHARGE CAP. INSULATE DUCTWORK WITH 25mm EXTERNAL INSULATION AND PVC COVER.
Q. CONNECT SWITCH TO EXHAUST FAN EF-9 IN SERVICE SPACE 201. INSTALL FAN SWITCH BETWEEN DOORS AND NEVER BLOCKED. FAN SWITCH TO BE STACKED ABOVE LIGHT SWITCH WHERE NECESSARY.
R. CONNECT SWITCH TO EXHAUST FAN EF-10 IN SERVICE SPACE 201. INSTALL FAN SWITCH BETWEEN DOORS AND NEVER BLOCKED. FAN SWITCH TO BE STACKED ABOVE LIGHT SWITCH WHERE NECESSARY.
S. CONNECT SWITCH TO EXHAUST FAN EF-11 IN SERVICE SPACE 201. INSTALL FAN SWITCH BETWEEN DOORS AND NEVER BLOCKED. FAN SWITCH TO BE STACKED ABOVE LIGHT SWITCH WHERE NECESSARY.
T. CONNECT SWITCH TO EXHAUST FAN EF-12 IN SERVICE SPACE 201. INSTALL FAN SWITCH BETWEEN DOORS AND NEVER BLOCKED. FAN SWITCH TO BE STACKED ABOVE LIGHT SWITCH WHERE NECESSARY.
U. CONNECT SWITCH TO EXHAUST FAN EF-13 IN SERVICE SPACE 201. INSTALL FAN SWITCH BETWEEN DOORS AND NEVER BLOCKED. FAN SWITCH TO BE STACKED ABOVE LIGHT SWITCH WHERE NECESSARY.
V. CONNECT SWITCH TO EXHAUST FAN EF-14 IN SERVICE SPACE 201. INSTALL FAN SWITCH BETWEEN DOORS AND NEVER BLOCKED. FAN SWITCH TO BE STACKED ABOVE LIGHT SWITCH WHERE NECESSARY.
W. CONNECT SWITCH TO EXHAUST FAN EF-15 IN SERVICE SPACE 201. INSTALL FAN SWITCH BETWEEN DOORS AND NEVER BLOCKED. FAN SWITCH TO BE STACKED ABOVE LIGHT SWITCH WHERE NECESSARY.
X. 400x250 EXHAUST DUCT TO DROP TO CRAWLSPACE
Y. 100x150 EXHAUST DUCT FROM CRAWLSPACE TO CONNECT TO DUCT FROM EXHAUST GRILLE SERVING ROOM 142. TRANSITION TO 300X150 AND RISE UP TO SERVICE SPACE ABOVE.
Z. 150X100 EXHAUST DUCT TO DROP TO CRAWLSPACE.

VENTILATION GENERAL NOTES

– ALL DUCTWORK SHOWN DOUBLE LINE INSIDE PERIMETER OF DUCT IS TO BE COMPLETE WITH 25mm INTERNAL INSULATION. ALL OTHER DUCTWORK IS TO BE C/W 25mm EXTERNAL INSULATION. SIZES INCLUDE INTERNAL INSULATION WHERE APPLICABLE.

– ALL FITTINGS ON INTERNALLY INSULATED DUCTWORK ARE TO BE C/W INTERNAL INSULATION. ALL OTHERS ARE TO BE EXTERNALLY INSULATED.

– ALL SUPPLY AIR AND EXHAUST AIR BRANCH DUCTS TO GRILLES AND DIFFUSERS ARE TO BE C/W BALANCE DAMPERS IN BRANCH DUCT NEAR MAIN, UNLESS BALANCE DAMPERS ARE PROVIDED IN GRILLE OR DIFFUSER.

– ALL EXHAUST FANS ARE TO BE SUSPENDED FROM STRUCTURE ON THREADED ROD C/W SPRING ISOLATORS.

– ALL RADIUSED ELBOWS TO BE WITH CENTERLINE RADIUS OF 1.5 TIMES DUCT DIAMETER (ROUND DUCTS) OR DUCT WIDTH (RECTANGULAR). ALL MITERED ELBOWS TO BE COMPLETE WITH AIRFOIL TURNING VANES. ALL RECTANGULAR BRANCHES TO BE WITH RADIUS ON BRANCH 1.5 TIMES WIDTH OF DUCT. ALL ROUND BRANCHES TO ENTER MAIN DUCT AT 45 DEGREES WITH CONICAL CONNECTION.

– PROVIDE ACCESS DOORS FOR ACCESS TO ALL MOTORIZED DAMPERS, FIRE DAMPERS, AND CONTROL DEVICES, AND TO FACILITATE DUCT CLEANING.

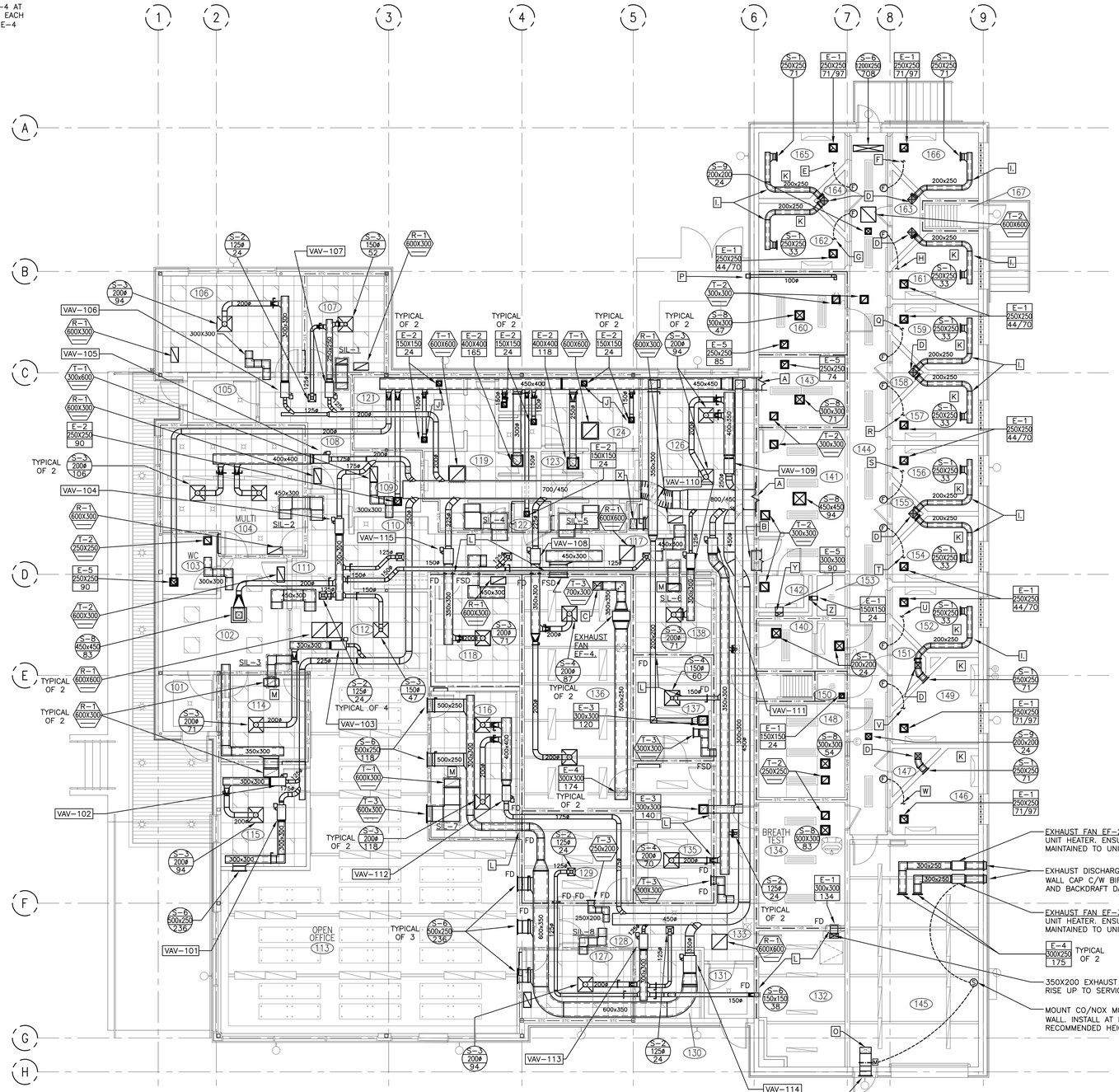
– COORDINATE ALL WORK WITH OTHER TRADES.

– RUN DUCTS AS HIGH AS POSSIBLE TO PROVIDE MAXIMUM CLEARANCE.

– BALANCE ALL DIFFUSERS TO BE THE SAME WITH AVAILABLE AIR IN EACH VARIABLE AIR VOLUME BOX (UNLESS NOTED OTHERWISE).

– DUCT MOUNTED DIFFUSERS AND GRILLES TO BE MOUNTED AT AN IDENTICAL HEIGHT ABOVE FINISHED FLOORING AS THE LIGHTING WITHIN THE SPACE BEING SERVED.

– ENSURE 1500mm OF INTERNAL INSULATED DUCT DOWNSTREAM OF VARIABLE AIR VOLUME BOX BEFORE FIRST RUNOUT.



NORTH

2 MAIN FLOOR PLAN
1:100

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

PWGSC – A1 – 841X594

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MAIN FLOOR PLAN
VENTILATION

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	M4.2	0

A000

KEY NOTES:

A. 100ø DRYER DUCT TO RISE/DROP IN WALL AND RUN TO EXTERIOR IN MAIN FLOOR CEILING SPACE. PROVIDE FOR CONNECTION TO OWNER SUPPLIED DRYER.
B. 600X600 RETURN AIR PLENUM
C. 175ø RANGE HOOD EXHAUST DUCT TO RISE UP INTO STRUCTURE AND TO RUN TO EXTERIOR. DUCTWORK TO BE C/W FIRE WRAP INSULATION.
D. 100ø DRYER EXHAUST DUCT TO RUN THROUGH STRUCTURE TO EXTERIOR C/W FIRE WRAP.
E. 175ø HRV EXHAUST DUCT TO RISE UP INTO STRUCTURE C/W FIRE DAMPER.
F. 175ø HRV OUTDOOR AIR DUCT TO RISE UP INTO STRUCTURE C/W FIRE DAMPER.
G. 175ø HRV EXHAUST DUCT TO RISE UP INTO ATTIC SPACE C/W FIRE DAMPER. DUCT TO RISE UP THROUGH ROOF, GOOSENECK AND BE C/W BIRDSCREEN.
H. 175ø HRV OUTDOOR AIR DUCT TO RISE UP THROUGH ROOF, GOOSENECK AND BE C/W BIRDSCREEN.
I. 75ø EXHAUST AIR TO RISE UP THROUGH SECOND FLOOR STRUCTURE TO EXTERIOR. VENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
J. 75ø EXHAUST / COMBUSTION AIR TO RISE UP THROUGH ATTIC SPACE TO EXTERIOR. VENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
K. 200ø SUPPLY DUCT FROM MAIN FLOOR CEILING C/W FIRE DAMPER TO DROP TO CRAWLSPACE
L. CONCENTRIC TERMINATION KIT FOR COMBUSTION AIR AND FLUE GASES TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS. CONFIRM EXACT VENT SIZES WITH MANUFACTURER'S INSTRUCTIONS.
M. INSTALL GRILLE OF FACE OF KICK SPACE OF CABINET.
N. SOIL GAS COLLECTOR SYSTEM PIPING (100ø SCHEDULE 40 PVC PIPING) TO RISE UP THRU CRAWLSPACE VAPOUR BARRIER, OFFSET IN CRAWLSPACE, AND EXIT OUT THRU SKIRTING. PIPING TO BE CAPPED AND SEALED.
O. SOIL GAS MAT COLLECTOR SYSTEM TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
P. FIRE WRAP ALL SUPPLY AND EXHAUST DUCTWORK IN SECOND FLOOR STRUCTURE SPACE.
Q. WALL MOUNTED FIRE EXTINGUISHER C/W WALL BRACKET.
R. DUCTWORK TO ROUTE THROUGH ATTIC SPACE C/W 50mm EXTERNAL INSULATION
S. 150ø EXHAUST DUCT TO DROP THOUGH SECOND FLOOR STRUCTURE SPACE WITH FIRE DAMPER
T. 150ø EXHAUST DUCT TO TRANSITION TO 150x150 DUCT AND DROP THROUGH MAIN FLOOR TO CRAWLSPACE
U. F-1: DOWNFLOW GAS FIRED FURNACE
V. DWH-3: DOMESTIC GAS FIRED WATER HEATER
W. RH-1: VENTED RANGE HOOD
X. HRV-1: HEAT RECOVERY VENTILATOR

VENTILATION GENERAL NOTES

– ALL DUCTWORK SHOWN DOUBLE LINE INSIDE PERIMETER OF DUCT IS TO BE COMPLETE WITH 25mm INTERNAL INSULATION. ALL OTHER DUCTWORK IS TO BE C/W 25mm EXTERNAL INSULATION. SIZES INCLUDE INTERNAL INSULATION WHERE APPLICABLE.

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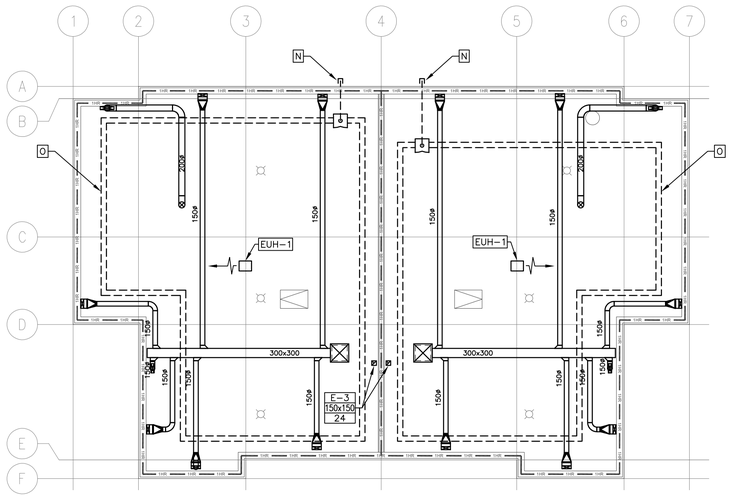
– COORDINATE ALL WORK WITH OTHER TRADES.

– RUN DUCTS AS HIGH AS POSSIBLE TO PROVIDE MAXIMUM CLEARANCE.

– BALANCE ALL DIFFUSERS TO BE THE SAME WITH AVAILABLE AIR IN EACH VARIABLE AIR VOLUME BOX (UNLESS NOTED OTHERWISE).

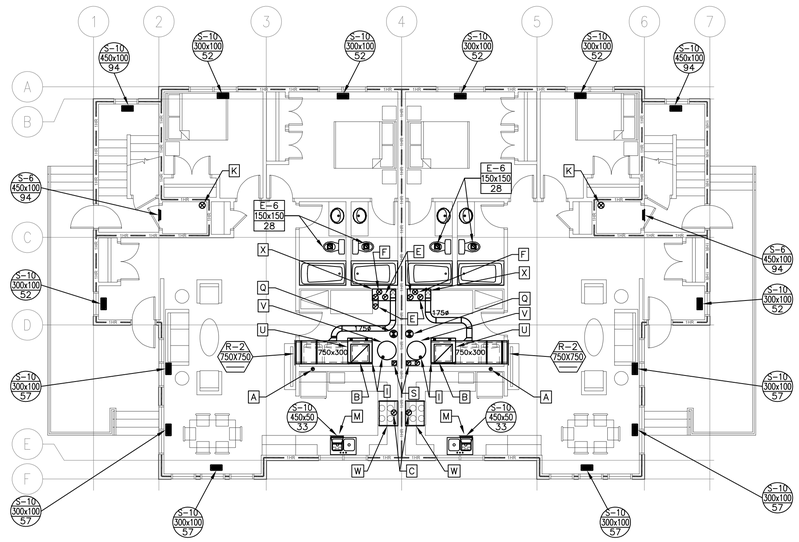
– DUCT MOUNTED DIFFUSERS AND GRILLES TO BE MOUNTED AT AN IDENTICAL HEIGHT ABOVE FINISHED FLOORING AS THE LIGHTING WITHIN THE SPACE BEING SERVED.

– ENSURE 1500mm OF INTERNAL INSULATED DUCT DOWNSTREAM OF VARIABLE AIR VOLUME BOX BEFORE FIRST RUNOUT.



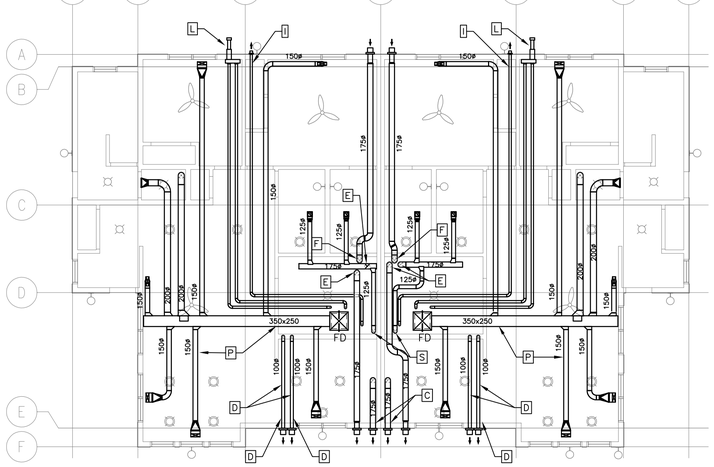
NORTH

1 CRAWLSPACE PLAN
1:100



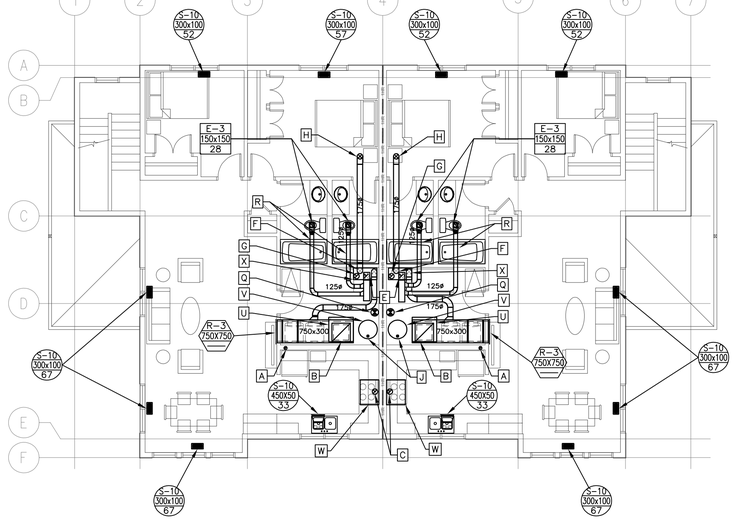
NORTH

2 MAIN FLOOR PLAN
1:100



NORTH

3 SECOND FLOOR STRUCTURE SPACE
1:100



NORTH

4 SECOND FLOOR PLAN
1:100

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Revision/ Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	18/10/19

Client/client

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
TKC

Drawn by/Dessine par
JDL

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

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HOUSING FLOOR PLANS
VENTILATION

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	M4.3	0

PWGSC – A1 – 841X594

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

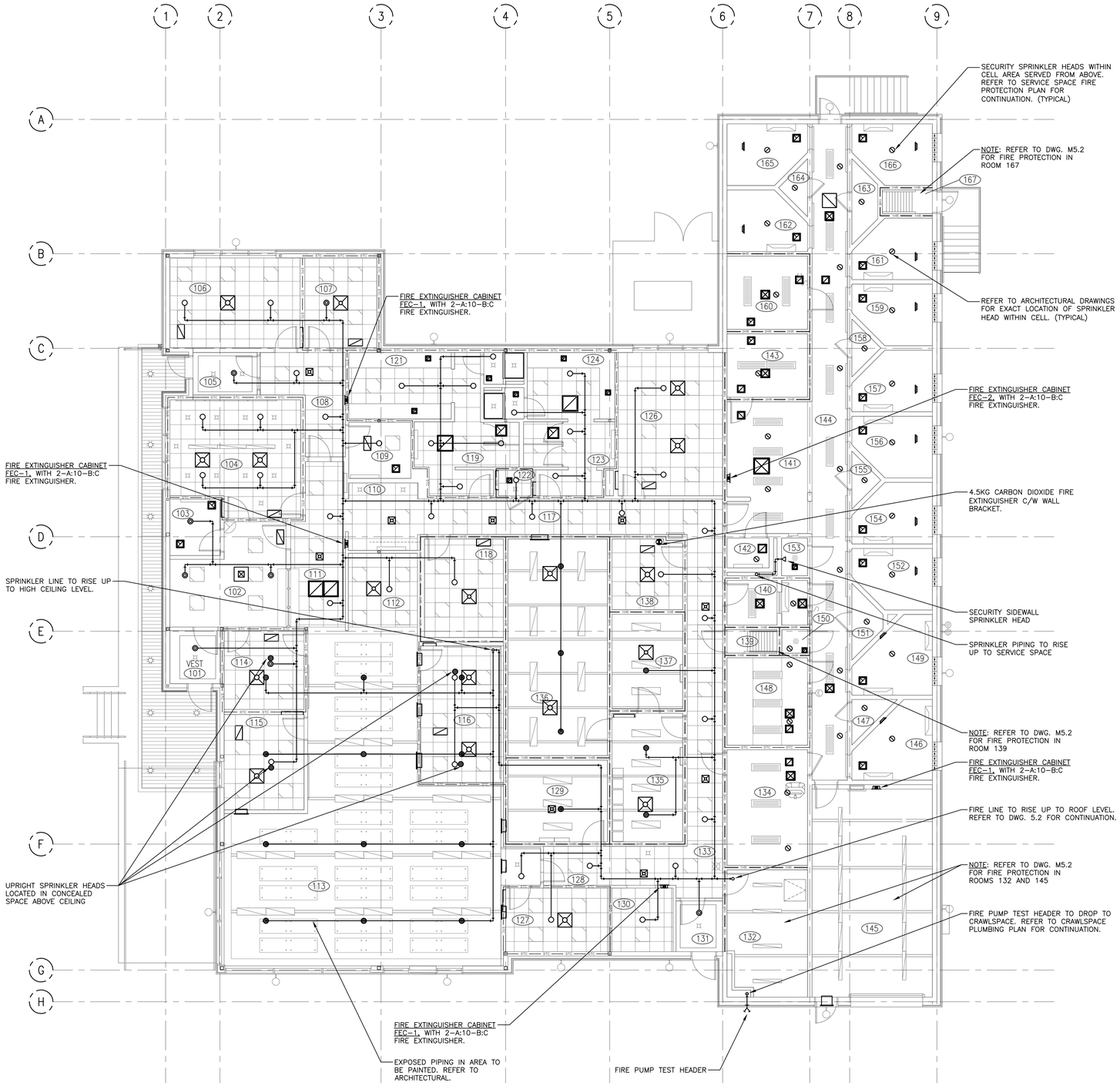
A000

SPRINKLER LEGEND

- STANDARD CHROME PLATED SEMI-RECESSED PENDANT HEAD
- FULLY RECESSED CONCEALED PENDANT HEAD (COVER TO HAVE FACTORY CUSTOM COLOUR SELECTED BY ARCHITECT)
- SECURITY PENDANT HEAD
- STANDARD UPRIGHT HEAD
- STANDARD NON-FREEZE PENDANT HEAD
- STANDARD SIDEWALL HEAD
- NON-FREEZE SIDEWALL HEAD
- EXTENDED COVERAGE SIDEWALL HEAD
- FIRE EXTINGUISHER IN WALL CABINET
- FIRE EXTINGUISHER C/W WALL BRACKET

FIRE PROTECTION NOTES:

- ALL SPRINKLER PIPE TO BE HYDRAULICALLY SIZED. BASE ON FLOW TEST RESULTS.
- CO-ORDINATE ALL SPRINKLER HEADS AND PIPING WITH OTHER PIPING, STRUCTURAL, LIGHTING, DUCTWORK AND ELECTRICAL.
- ALL HEADS IN GYMNASIUM, MECHANICAL AND JANITOR'S ROOMS TO BE COMPLETE WITH GUARDS.
- HEADS IN BOILER ROOM TO BE HIGH TEMPERATURE RATED.
- PROVIDE DRAINS AT LOW POINTS IN SYSTEM.
- ALL SPRINKLER HEADS IN T-BAR CEILINGS ARE TO BE CENTERED IN TILE OR 1/2 TILE UNLESS NOTED OTHERWISE.



NORTH

2 MAIN FLOOR PLAN
1:100

PWGSC – A1 – 841X594

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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

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TKC

Drawn by/Dessine par
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MAIN FLOOR PLAN
FIRE PROTECTION

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	M5.1	0

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SPRINKLER LEGEND

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- ⌓ EXTENDED COVERAGE SIDEWALL HEAD
- FE FIRE EXTINGUISHER IN WALL CABINET
- FE FIRE EXTINGUISHER C/W WALL BRACKET

FIRE PROTECTION NOTES:

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- CO-ORDINATE ALL SPRINKLER HEADS AND PIPING WITH OTHER PIPING, STRUCTURAL, LIGHTING, DUCTWORK AND ELECTRICAL.
- ALL HEADS IN GYMNASIUM, MECHANICAL AND JANITOR'S ROOMS TO BE COMPLETE WITH GUARDS.
- HEADS IN BOILER ROOM TO BE HIGH TEMPERATURE RATED.
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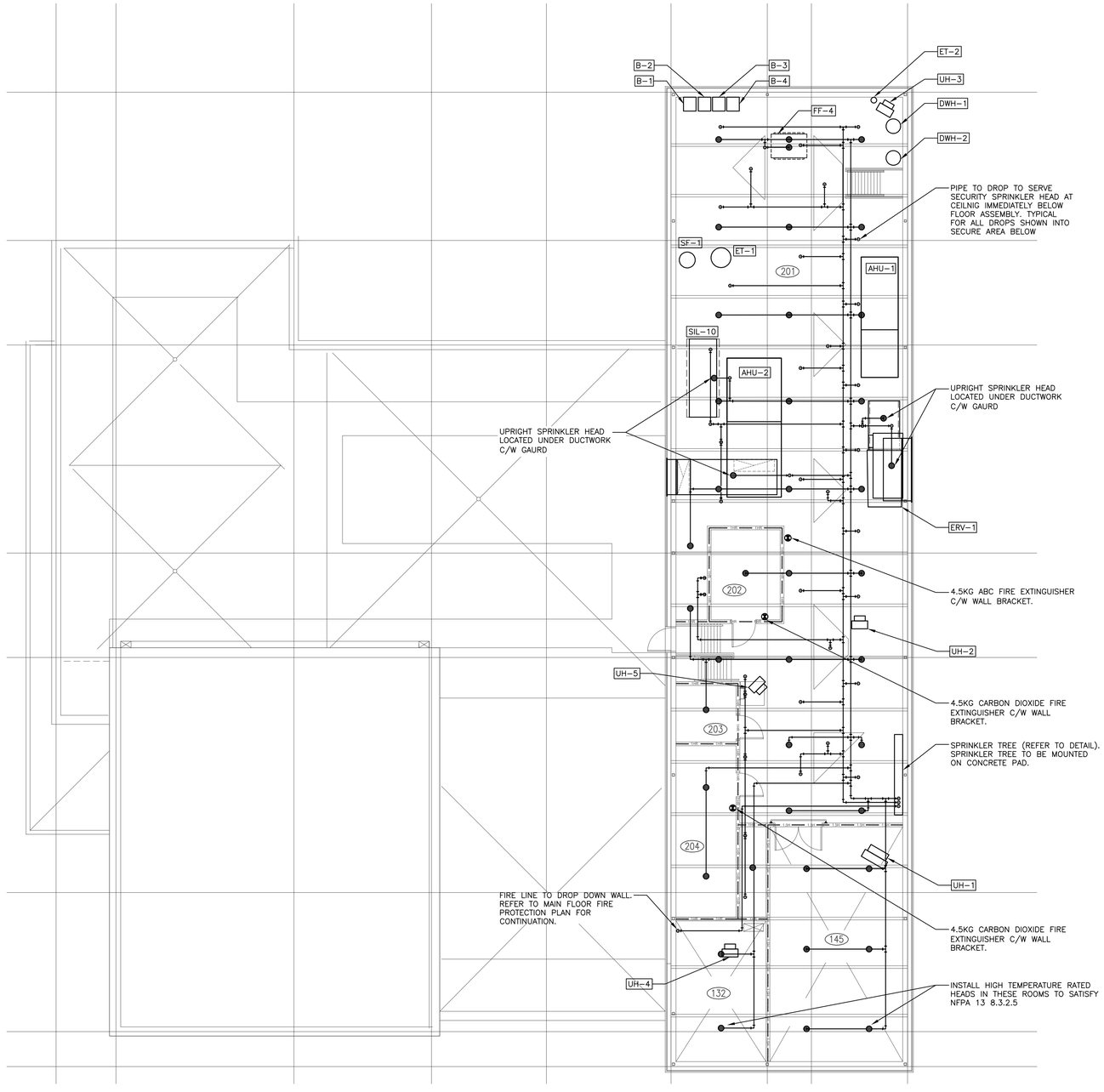
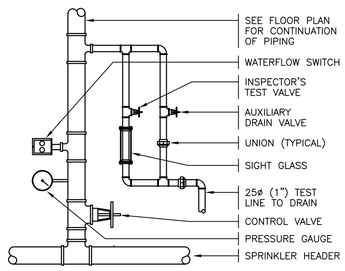
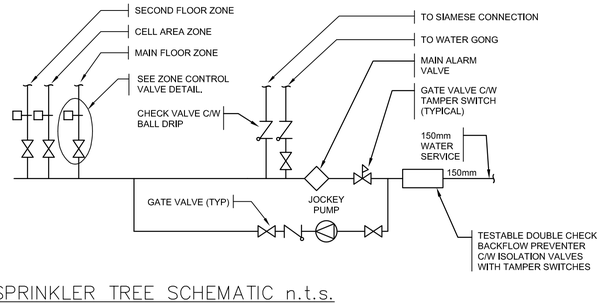




FIRE PROTECTION ZONE CONTROL VALVE SCHEMATIC

NORTH

1 MECHANICAL ROOM PLAN
1:100



SPRINKLER TREE SCHEMATIC n.t.s.

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NEW POLICE BUILDING

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MECHANICAL ROOM PLAN FIRE PROTECTION AND SCHEMATICS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	M5.2	0

PWGSC – A1 – 841X594

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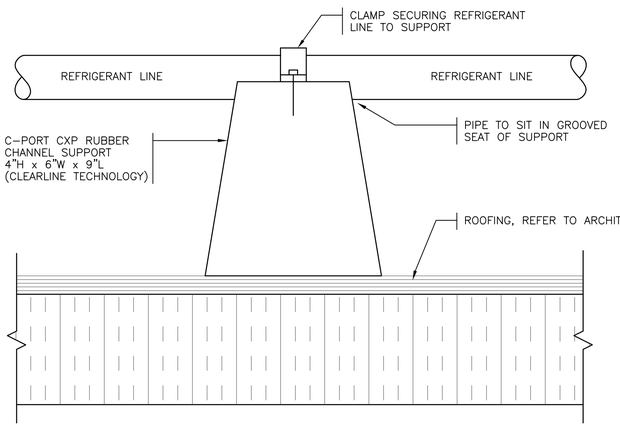
NOTE: PIPING MAY BE SUPPORTED WITH TREATED WOOD BLOCKS OR MATERIAL HAVING AT LEAST EQUIVALENT CHARACTERISTICS AS WOOD BLOCKS AND PROTECTION AGAINST OUTDOOR EXPOSURE. THE SUPPORT SPACING FOR PIPING NPS 1 AND GREATER SHALL COMPLY WITH THE TABLE AND SUPPORT SHALL BE PROVIDED FOR EVERY THREADED FITTING. HORIZONTAL PIPING ON ROOFTOPS THAT IS LESS THAN NPS 1 SHALL BE SUPPORTED EVERY 4 FEET (1.2 METERS), AND ALL TUBING SHALL BE SUPPORTED CONTINUOUSLY WITH TREATED WOOD AND PLANKS WHEN IT IS LAID ON THE ROOFTOP.

SPACING OF SUPPORTS FOR PIPING	
NPS	MAXIMUM SPACING OF SUPPORTS feet (m)
1/2" OR LESS – HORIZONTAL	6 (2)
3/4"–1" – HORIZONTAL	8 (2.5)
1–1/4" – 2–1/2" – HORIZONTAL	10 (3)
3" – 4" – HORIZONTAL	15 (5)
5" – 8" – HORIZONTAL	20 (6)
10 OR LARGER – HORIZONTAL	25 (8)
ALL SIZES – VERTICAL	EVERY FLOOR, BUT NOT MORE THAN 125% OF HORIZONTAL SPACING
TUBING – ALL SIZES – VERT. AND HORIZ.	6 (2)



REFRIGERANT LINE SUPPORT DETAIL n.t.s.

PLUMBING GENERAL NOTES:

– ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

– COORDINATE ALL WORK WITH OTHER TRADES AND SITE CONDITIONS.

– RUN WATER PIPING AS HIGH AS POSSIBLE TO PROVIDE MAXIMUM CLEARANCE IN ALL AREAS.

– ALL PLUMBING BRANCH LINES ARE 12ø UNLESS NOTED OTHERWISE.

– BOILER ROOM SANITARY PIPING AND EXPOSED PIPING SHALL BE CAST IRON.

– ALL SHOWER DRAINS AND FLOOR DRAINS TO BE 75ø.

– VENTING AS PER LOCAL CODES AND REQUIREMENTS.

– PROVIDE ISOLATION GAS VALVE ON GAS LINE TO ALL EQUIPMENT.

– MAKE ALL CONNECTIONS FOR EQUIPMENT SUPPLIED BY OTHERS. REFER TO DETAILS FOR CONNECTIONS.

GENERAL HEATING NOTES:

– ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

– COORDINATE ALL WORK WITH OTHER TRADES AND SITE CONDITIONS.

– RUN PIPING AS HIGH AS POSSIBLE.

– INSTALL AUTO AIR VENTS WITH PET COCKS AT ALL HIGH POINTS IN THE SYSTEM PIPING.

– REFER TO DETAIL SHEETS FOR EQUIPMENT CONNECTIONS.

– ALL RUNOUTS TO REHEAT COILS, AND INFLOOR MANIFOLDS TO BE 19ø UNLESS NOTED OTHERWISE. ALL RUNOUTS TO UNIT HEATERS AND FORCE FLOWS TO BE 25ø UNLESS NOTED OTHERWISE.

UNIT HEATER UH–3.

DOMESTIC HOT WATER EXPANSION TANK ET–2.

DOMESTIC HOT WATER HEATERS DWH–1 AND DWH–2. MOUNT DOMESTIC WATER HEATER ON DRAIN PAN PIPED TO FLOOR DRAIN AND CONNECT TO REQUIRED SERVICES. REFER TO SCHEMATIC FOR COMPLETE VALVING. PIPE CONDENSATE TO NEAREST DRAIN.

WATER SEAL AND SLEEVE ALL PIPING THROUGH MECHANICAL ROOM FLOOR.

38ø CHW AND 19ø HHW TO DROP INTO MECHANICAL CHASE BELOW. REFER TO MAIN FLOOR PLUMBING PLAN FOR CONTINUATION. (TYPICAL OF 2)

LOW TEMPERATURE HEATING PUMPS. INSTALL PUMPS STACKED SUSPEND FROM STRUCTURE OR FROM FLOOR WITH PIPE STANDS / UNISTRUT. SHOWN FOR CLARITY.

1050X450 OUTDOOR AIR INTAKE PLENUM TO BE C/W 25ø DRAIN FROM BOTTOM OF DUCT. 25ø DRAIN TO BE C/W 100mm DEEP TRAP AND DRAIN TO THE NEAREST FLOOR DRAIN.

AIR HANDLING UNIT AHU–1. TO BE MOUNTED ON 150mm HOUSEKEEPING PAD, REFER TO STRUCTURAL AND CONNECT TO ALL REQUIRED SERVICES. REFER TO SCHEMATICS FOR COMPLETE VALVING. ENSURE DRAINS FROM UNIT ARE COMPLETE WITH DEEP SEAL TRAP AND AIR GAP. DRAINS TO BE PIPED TO FLOOR DRAIN ACCORDINGLY.

AHU–1 PUMP P–7. SEE AHU HEATING COIL SCHEMATIC FOR VALVING AND PIPING.

75ø STORM LINE TO DROP TO CRAWLSPACE BELOW

38ø CHW AND 19ø HHW TO DROP INTO MECHANICAL CHASE BELOW. REFER TO MAIN FLOOR PLUMBING PLAN FOR CONTINUATION. CONTRACTOR TO COORDINATE DROP LOCATIONS OF CHW AND HHW LINES ON SITE TO NOT INTERFERE WITH ACCESS DOORS OF AHU–1. WATER SEAL AND SLEEVE PIPING THROUGH FLOOR.

1200X650 OUTDOOR AIR INTAKE PLENUM TO BE C/W 25ø DRAIN FROM BOTTOM OF DUCT. 25ø DRAIN TO BE C/W 100mm DEEP TRAP AND DRAIN TO THE NEAREST FLOOR DRAIN.

2400X600 OUTDOOR AIR INTAKE PLENUM TO BE C/W 25ø DRAIN FROM BOTTOM OF DUCT. 25ø DRAIN TO BE C/W 100mm DEEP TRAP AND DRAIN TO THE NEAREST FLOOR DRAIN.

AHU–2 PUMP P–8. SEE AHU HEATING COIL SCHEMATIC FOR VALVING AND PIPING.

ENERGY RECOVERY VENTILATOR ERV–1. TO BE MOUNTED ON 150mm HOUSE KEEPING PAD BY STRUCTURAL AND CONNECT TO ALL REQUIRED SERVICES. ENSURE DRAINS FROM UNIT ARE COMPLETE WITH DEEP SEAL TRAP AND AIR GAP. DRAINS TO BE PIPED TO FLOOR DRAIN ACCORDINGLY.

38ø CHW AND 19ø HHW TO DROP INTO MECHANICAL CHASE BELOW. REFER TO MAIN FLOOR PLUMBING PLAN FOR CONTINUATION. CONTRACTOR TO COORDINATE DROP LOCATIONS OF CHW AND HHW LINES ON SITE TO NOT INTERFERE WITH ACCESS DOORS OF AHU–2 AND ERV–1. WATER SEAL AND SLEEVE PIPING THROUGH FLOOR.

75ø STORM LINE TO DROP TO CRAWLSPACE BELOW

CONDENSATE DRAIN FROM A/C UNIT TO RUN TO FLOOR DRAIN LOCATED IN ROOM 201 C/W AIR GAP

AIR CONDITIONING UNIT AC–1: MOUNT BOTTOM OF UNIT 2400mm ABOVE FINISHED FLOOR LEVEL

UNIT HEATER UH–2: SUSPEND UNIT FROM STRUCTURE

NORTH

1 MECHANICAL ROOM–NORTH
1:50

PWGSC – A1 – 841X594

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

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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

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MECHANICAL ROOM NORTH PLUMBING AND HEATING

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	M6.1	0

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PLUMBING GENERAL NOTES:

– ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

– COORDINATE ALL WORK WITH OTHER TRADES AND SITE CONDITIONS.

– RUN WATER PIPING AS HIGH AS POSSIBLE TO PROVIDE MAXIMUM CLEARANCE IN ALL AREAS.

– ALL PLUMBING BRANCH LINES ARE 12ø UNLESS NOTED OTHERWISE.

– BOILER ROOM SANITARY PIPING AND EXPOSED PIPING SHALL BE CAST IRON.

– ALL SHOWER DRAINS AND FLOOR DRAINS TO BE 75ø.

– VENTING AS PER LOCAL CODES AND REQUIREMENTS.

– PROVIDE ISOLATION GAS VALVE ON GAS LINE TO ALL EQUIPMENT.

– MAKE ALL CONNECTIONS FOR EQUIPMENT SUPPLIED BY OTHERS. REFER TO DETAILS FOR CONNECTIONS.

GENERAL HEATING NOTES:

– ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

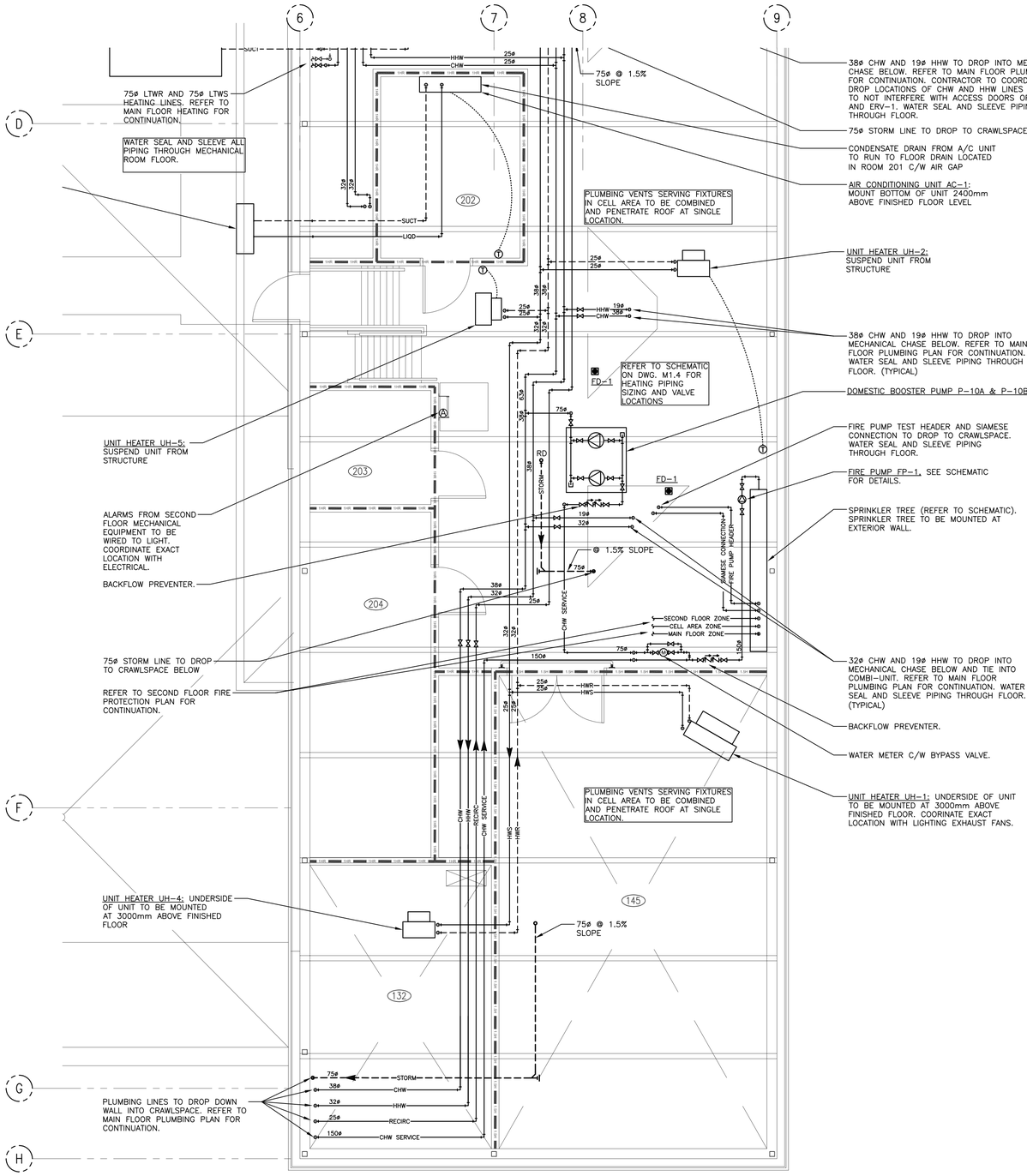
– COORDINATE ALL WORK WITH OTHER TRADES AND SITE CONDITIONS.

– RUN PIPING AS HIGH AS POSSIBLE.

– INSTALL AUTO AIR VENTS WITH PET COCKS AT ALL HIGH POINTS IN THE SYSTEM PIPING.

– REFER TO DETAIL SHEETS FOR EQUIPMENT CONNECTIONS.

– ALL RUNOUTS TO REHEAT COILS, AND INFLOOR MANIFOLDS TO BE 19ø UNLESS NOTED OTHERWISE. ALL RUNOUTS TO UNIT HEATERS AND FORCE FLOWS TO BE 25ø UNLESS NOTED OTHERWISE.



NORTH

1 MECHANICAL ROOM– SOUTH
1:50

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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

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Designed by/Concept par
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Drawn by/Dessine par
JDL

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Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

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MECHANICAL ROOM SOUTH PLUMBING AND HEATING

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	M6.2	0

PWGSC – A1 – 841X594

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

A000

VENTILATION GENERAL NOTES

– ALL DUCTWORK SHOWN DOUBLE LINE INSIDE PERIMETER OF DUCT IS TO BE COMPLETE WITH 25mm INTERNAL INSULATION. ALL OTHER DUCTWORK IS TO BE C/W 25mm EXTERNAL INSULATION. SIZES INCLUDE INTERNAL INSULATION WHERE APPLICABLE.

– ALL FITTINGS ON INTERNALLY INSULATED DUCTWORK ARE TO BE C/W INTERNAL INSULATION. ALL OTHERS ARE TO BE EXTERNALLY INSULATED.

– ALL SUPPLY AIR AND EXHAUST AIR BRANCH DUCTS TO GRILLES AND DIFFUSERS ARE TO BE C/W BALANCE DAMPERS IN BRANCH DUCT NEAR MAIN, UNLESS BALANCE DAMPERS ARE PROVIDED IN GRILLE OR DIFFUSER.

– ALL EXHAUST FANS ARE TO BE SUSPENDED FROM STRUCTURE ON THREADED ROD C/W SPRING ISOLATORS.

– ALL RADIUSED ELBOWS TO BE WITH CENTERLINE RADIUS OF 1.5 TIMES DUCT DIAMETER (ROUND DUCTS) OR DUCT WIDTH (RECTANGULAR). ALL MITERED ELBOWS TO BE COMPLETE WITH AIRFOIL TURNING VANES. ALL RECTANGULAR BRANCHES TO BE WITH RADIUS ON BRANCH 1.5 TIMES WIDTH OF DUCT. ALL ROUND BRANCHES TO ENTER MAIN DUCT AT 45 DEGREES WITH CONICAL CONNECTION.

– PROVIDE ACCESS DOORS FOR ACCESS TO ALL MOTORIZED DAMPERS, FIRE DAMPERS, AND CONTROL DEVICES, AND TO FACILITATE DUCT CLEANING.

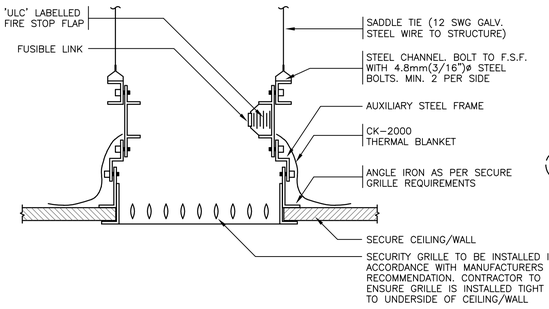
– COORDINATE ALL WORK WITH OTHER TRADES.

– RUN DUCTS AS HIGH AS POSSIBLE TO PROVIDE MAXIMUM CLEARANCE.

– BALANCE ALL DIFFUSERS TO BE THE SAME WITH AVAILABLE AIR IN EACH VARIABLE AIR VOLUME BOX (UNLESS NOTED OTHERWISE).

– DUCT MOUNTED DIFFUSERS AND GRILLES TO BE MOUNTED AT AN IDENTICAL HEIGHT ABOVE FINISHED FLOORING AS THE LIGHTING WITHIN THE SPACE BEING SERVED.

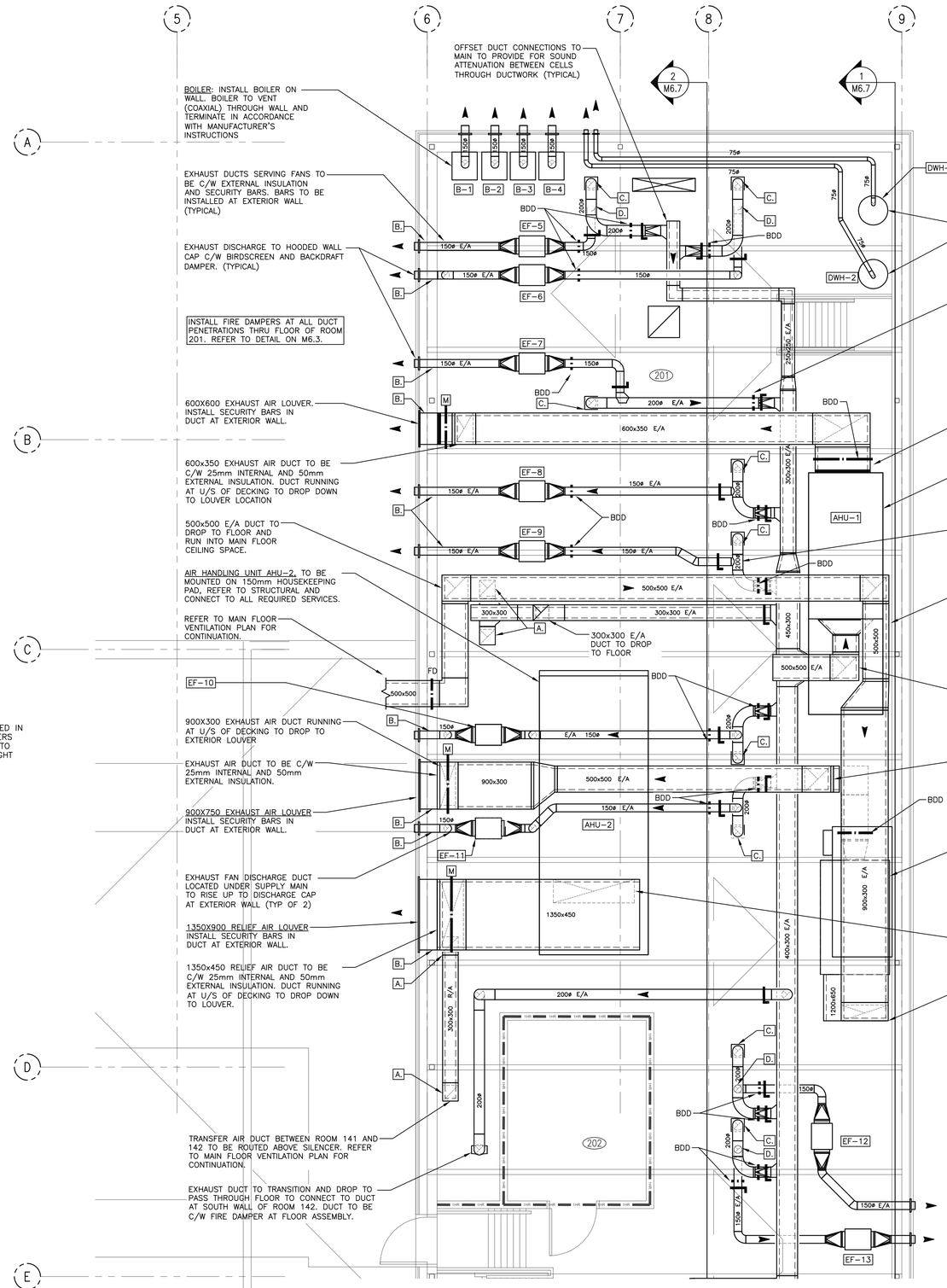
– ENSURE 1500mm OF INTERNAL INSULATED DUCT DOWNSTREAM OF VARIABLE AIR VOLUME BOX BEFORE FIRST RUNOUT.



CELL SECURE GRILLE DETAIL

KEY NOTES:

A. DUCT TO DROP TO GRILLE BELOW. DUCT TO BE C/W FIRE DAMPER. FOR DUCTS LARGER THAN 300x300 INSTALL SECURITY BARS AND REFER TO SECURITY DUCT PENETRATION DETAIL.
B. DUCT TO PENETRATE EXTERIOR WALL TO LOUVER/WALL CAP COMPLETE WITH SECURITY BARS. REFER TO SECURITY DUCT PENETRATION AT EXTERIOR WALL DETAIL.
C. EXHAUST DUCT TO DROP THROUGH FLOOR OF MECHANICAL ROOM C/W FIRE STOP FLAP TO SECURITY EXHAUST GRILLE MOUNTED TO U/S OF CELL BELOW. REFER TO CELL SECURE GRILLE DETAIL.
D. 150ø EXHAUST FAN DUCT TO TIE INTO UNDERSIDE OF EXHAUST MAIN



1 MECHANICAL ROOM–NORTH
1:50

NORTH

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Drawn by/Dessine par
JDL

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

MECHANICAL ROOM NORTH VENTILATION - EXHAUST AIR

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	M6.3	0

PWGSC – A1 – 841X594

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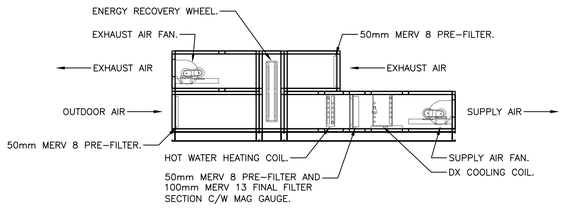
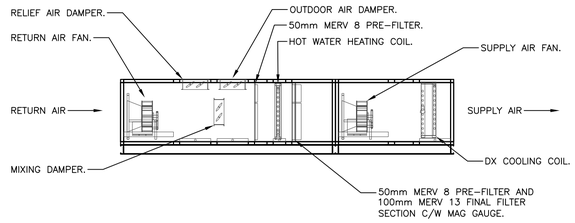
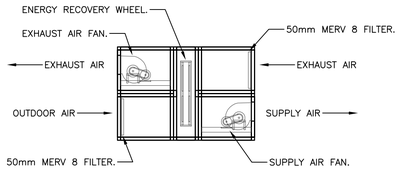
A000



AHU-1 CONFIGURATION



AHU-2 CONFIGURATION



ERV-1 CONFIGURATION

VENTILATION GENERAL NOTES

– ALL DUCTWORK SHOWN DOUBLE LINE INSIDE PERIMETER OF DUCT IS TO BE COMPLETE WITH 25mm INTERNAL INSULATION. ALL OTHER DUCTWORK IS TO BE C/W 25mm EXTERNAL INSULATION. SIZES INCLUDE INTERNAL INSULATION WHERE APPLICABLE.

– ALL FITTINGS ON INTERNALLY INSULATED DUCTWORK ARE TO BE C/W INTERNAL INSULATION. ALL OTHERS ARE TO BE EXTERNALLY INSULATED.

– ALL SUPPLY AIR AND EXHAUST AIR BRANCH DUCTS TO GRILLES AND DIFFUSERS ARE TO BE C/W BALANCE DAMPERS IN BRANCH DUCT NEAR MAIN, UNLESS BALANCE DAMPERS ARE PROVIDED IN GRILLE OR DIFFUSER.

– ALL EXHAUST FANS ARE TO BE SUSPENDED FROM STRUCTURE ON THREADED ROD C/W SPRING ISOLATORS.

– ALL RADIUSED ELBOWS TO BE WITH CENTERLINE RADIUS OF 1.5 TIMES DUCT DIAMETER (ROUND DUCTS) OR DUCT WIDTH (RECTANGULAR). ALL MITERED ELBOWS TO BE COMPLETE WITH AIRFOIL TURNING VANES. ALL RECTANGULAR BRANCHES TO BE WITH RADIUS ON BRANCH 1.5 TIMES WIDTH OF DUCT. ALL ROUND BRANCHES TO ENTER MAIN DUCT AT 45 DEGREES WITH CONICAL CONNECTION.

– PROVIDE ACCESS DOORS FOR ACCESS TO ALL MOTORIZED DAMPERS, FIRE DAMPERS, AND CONTROL DEVICES, AND TO FACILITATE DUCT CLEANING.

– COORDINATE ALL WORK WITH OTHER TRADES.

– RUN DUCTS AS HIGH AS POSSIBLE TO PROVIDE MAXIMUM CLEARANCE.

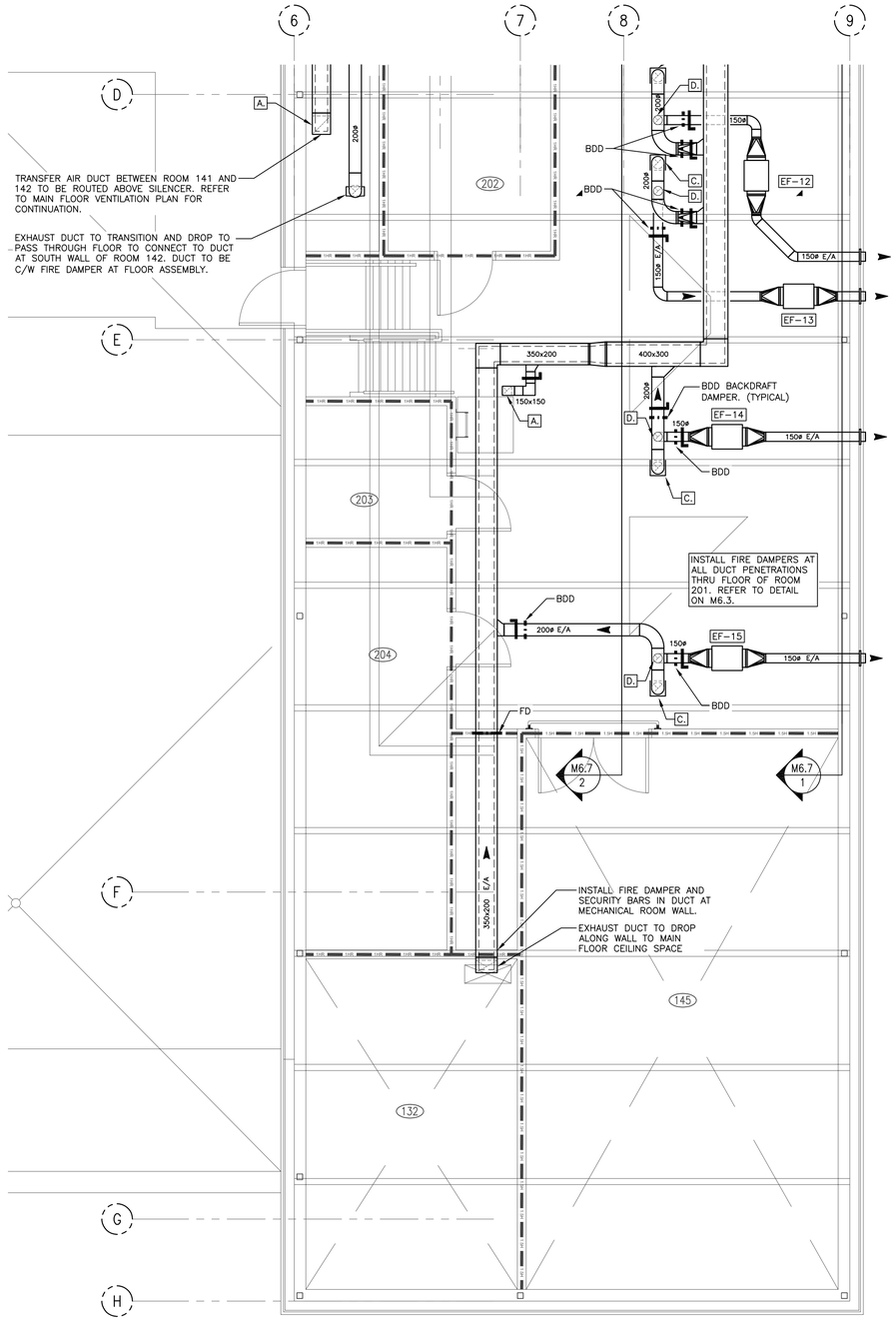
– BALANCE ALL DIFFUSERS TO BE THE SAME WITH AVAILABLE AIR IN EACH VARIABLE AIR VOLUME BOX (UNLESS NOTED OTHERWISE).

– DUCT MOUNTED DIFFUSERS AND GRILLES TO BE MOUNTED AT AN IDENTICAL HEIGHT ABOVE FINISHED FLOORING AS THE LIGHTING WITHIN THE SPACE BEING SERVED.

– ENSURE 1500mm OF INTERNAL INSULATED DUCT DOWNSTREAM OF VARIABLE AIR VOLUME BOX BEFORE FIRST RUNOUT.

KEY NOTES:

A. DUCT TO DROP TO GRILLE BELOW. DUCT TO BE C/W FIRE DAMPER. FOR DUCTS LARGER THAN 300x300 INSTALL SECURITY BARS AND REFER TO SECURITY DUCT PENETRATION DETAIL.
B. DUCT TO PENETRATE EXTERIOR WALL TO LOUVER/WALL CAP COMPLETE WITH SECURITY BARS. REFER TO SECURITY DUCT PENETRATION AT EXTERIOR WALL DETAIL.
C. EXHAUST DUCT TO DROP THROUGH FLOOR OF MECHANICAL ROOM C/W FIRE STOP FLAP TO SECURITY EXHAUST GRILLE MOUNTED TO U/S OF CELL BELOW. REFER TO CELL SECURE GRILLE DETAIL.
D. 150ø EXHAUST FAN DUCT TO TIE INTO UNDERSIDE OF EXHAUST MAIN



NORTH

1 MECHANICAL ROOM–SOUTH
1:50

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CERTIFICATE OF AUTHORIZATION
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Revision/ Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	18/10/19

Client/client

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
TKC

Drawn by/Dessine par
JDL

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

MECHANICAL ROOM SOUTH VENTILATION - EXHAUST AIR

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	M6.4	0

PWGSC – A1 – 841X594

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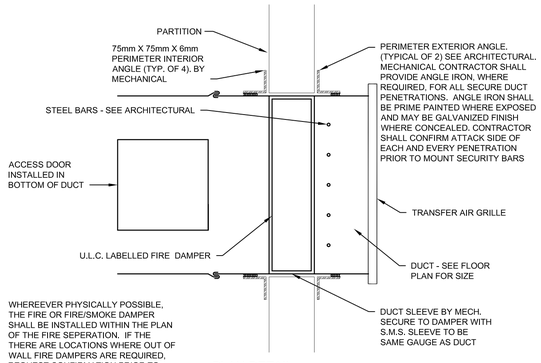
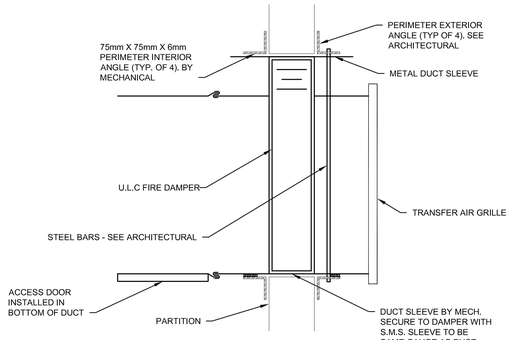
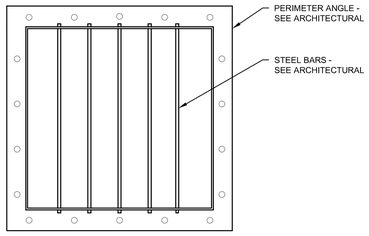


PLAN DETAIL



SECTION DETAIL



ELEVATION OF FRAME

SECURITY DUCT PENETRATION WITH GRILLE DETAIL n.t.s.
(FOR DUCTS LARGER THAN 300x300)

VENTILATION GENERAL NOTES

– ALL DUCTWORK SHOWN DOUBLE LINE INSIDE PERIMETER OF DUCT IS TO BE COMPLETE WITH 25mm INTERNAL INSULATION. ALL OTHER DUCTWORK IS TO BE C/W 25mm EXTERNAL INSULATION. SIZES INCLUDE INTERNAL INSULATION WHERE APPLICABLE.

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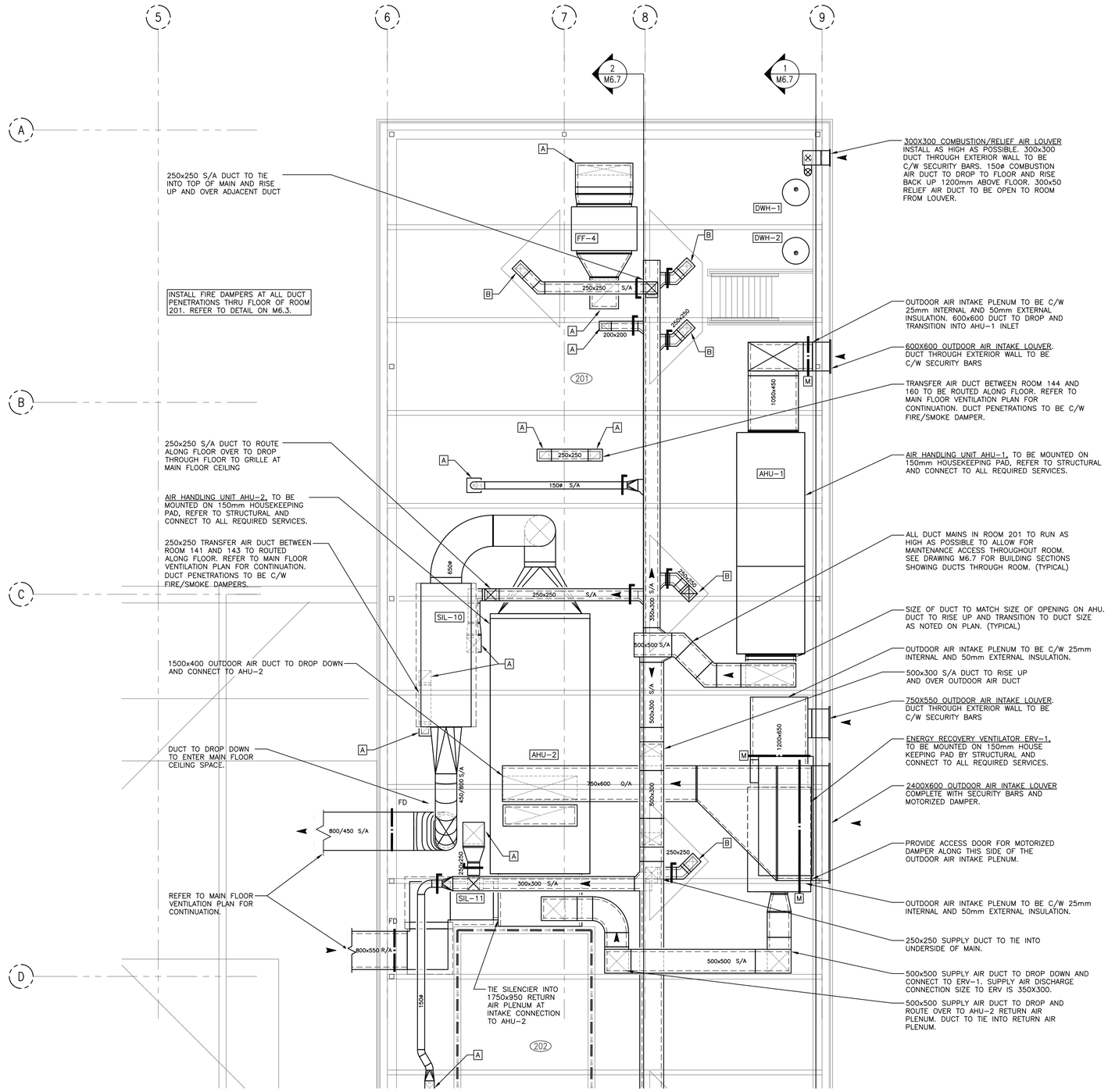

NORTH

1 MECHANICAL ROOM – NORTH
1:50

KEY NOTES:

A. DUCT TO DROP TO GRILLE BELOW. DUCT TO BE C/W FIRE DAMPER. FOR DUCTS LARGER THAN 300x300 INSTALL SECURITY BARS AND REFER TO SECURITY DUCT PENETRATION DETAIL.
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Client/client

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
TKC

Drawn by/Dessine par
JDL

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

MECHANICAL ROOM NORTH VENTILATION - SUPPLY

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	M6.5	0

PWGSC – A1 – 841X594

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

A000

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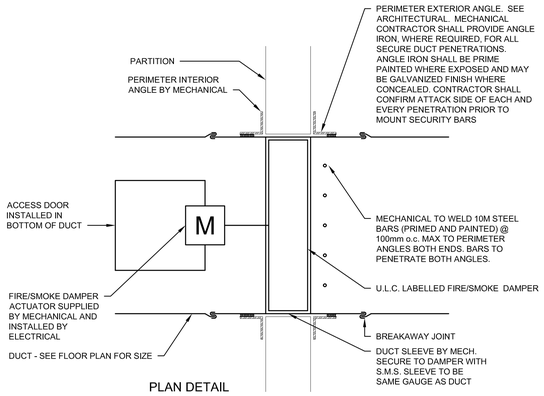
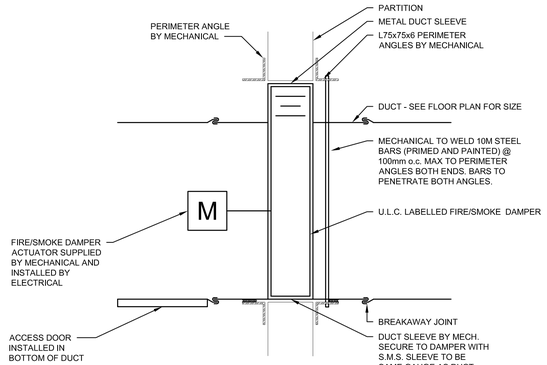


PLAN DETAIL



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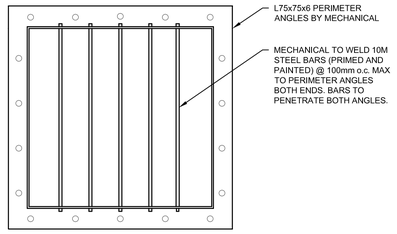
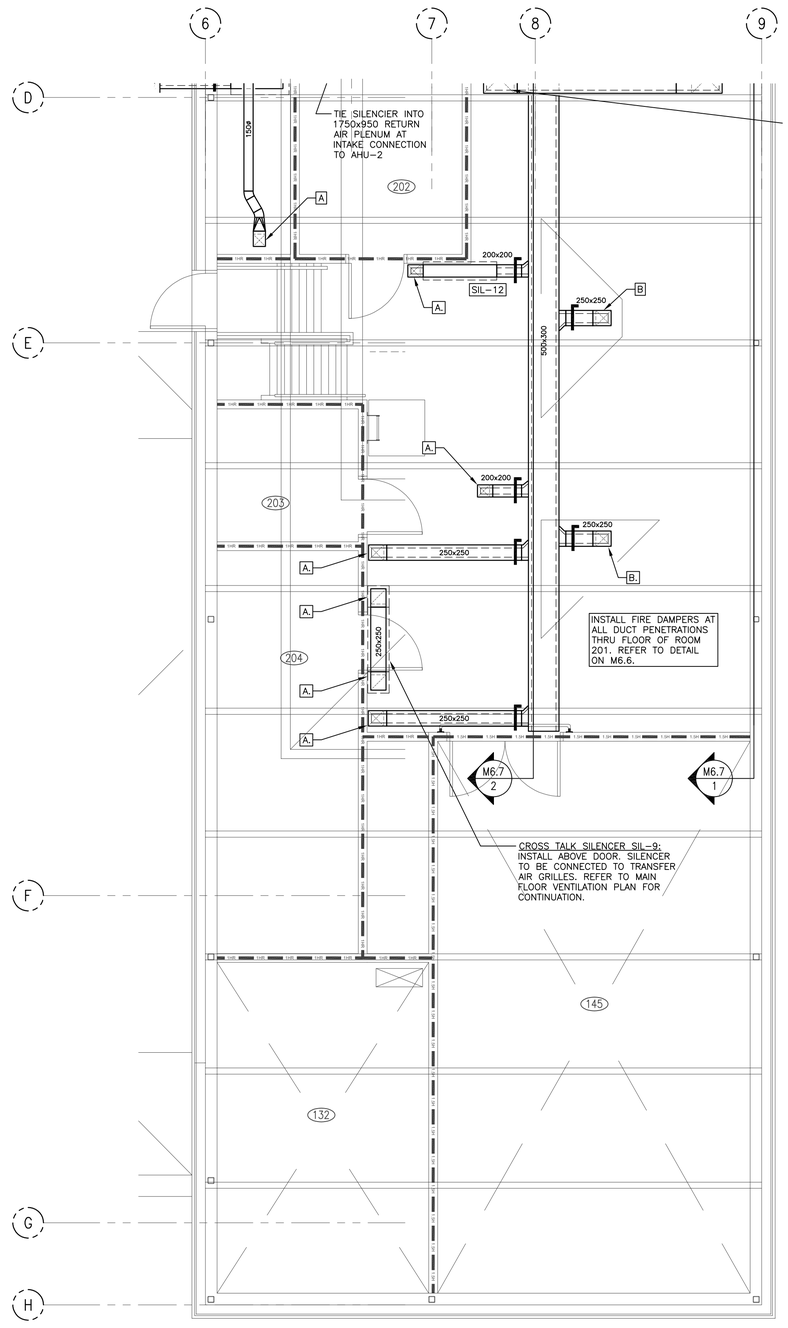


ELEVATION OF FRAME

SECURITY DUCT PENETRATION DETAIL n.t.s.
(FOR DUCTS LARGER THAN 300x300)

NOTE:
- MECHANICAL SHALL PROVIDE ANGLE IRONS, WHERE REQUIRED, FOR ALL SECURE DUCT PENETRATIONS. ANGLE IRONS SHALL BE PRIME PAINTED WHERE EXPOSED AND MAY BE GALVANIZED FINISH WHERE CONCEALED. CONTRACTOR SHALL CONFIRM ATTACK SIDE OF EACH AND EVERY PENETRATION PRIOR TO MOUNTING SECURITY BARS.
- WHEREVER PHYSICALLY POSSIBLE, THE FIRE OR FIRE/SMOKE DAMPER SHALL BE INSTALLED WITHIN THE PLANE OF THE FIRE SEPARATION. IF THERE ARE LOCATIONS WHERE OUT OF WALL FIRE DAMPERS ARE REQUIRED, REQUEST CONFIRMATION PRIOR TO COMMENCING WORK.



NORTH

1 MECHANICAL ROOM – SOUTH
1:50

KEY NOTES:

A. DUCT TO DROP TO GRILLE BELOW. DUCT TO BE C/W FIRE DAMPER. FOR DUCTS LARGER THAN 300x300 INSTALL SECURITY BARS AND REFER TO SECURITY DUCT PENETRATION DETAIL.
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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
TKC

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MECHANICAL ROOM SOUTH VENTILATION - SUPPLY

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	M6.6	0

PWGSC – A1 – 841X594

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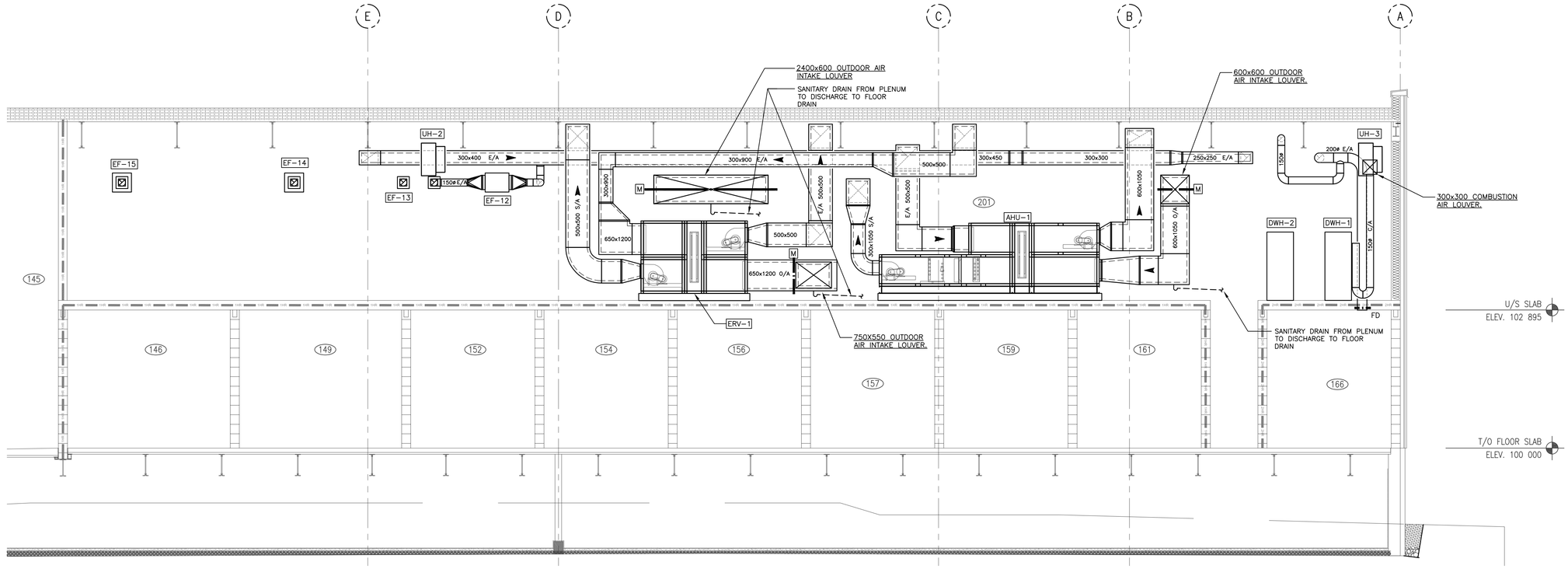
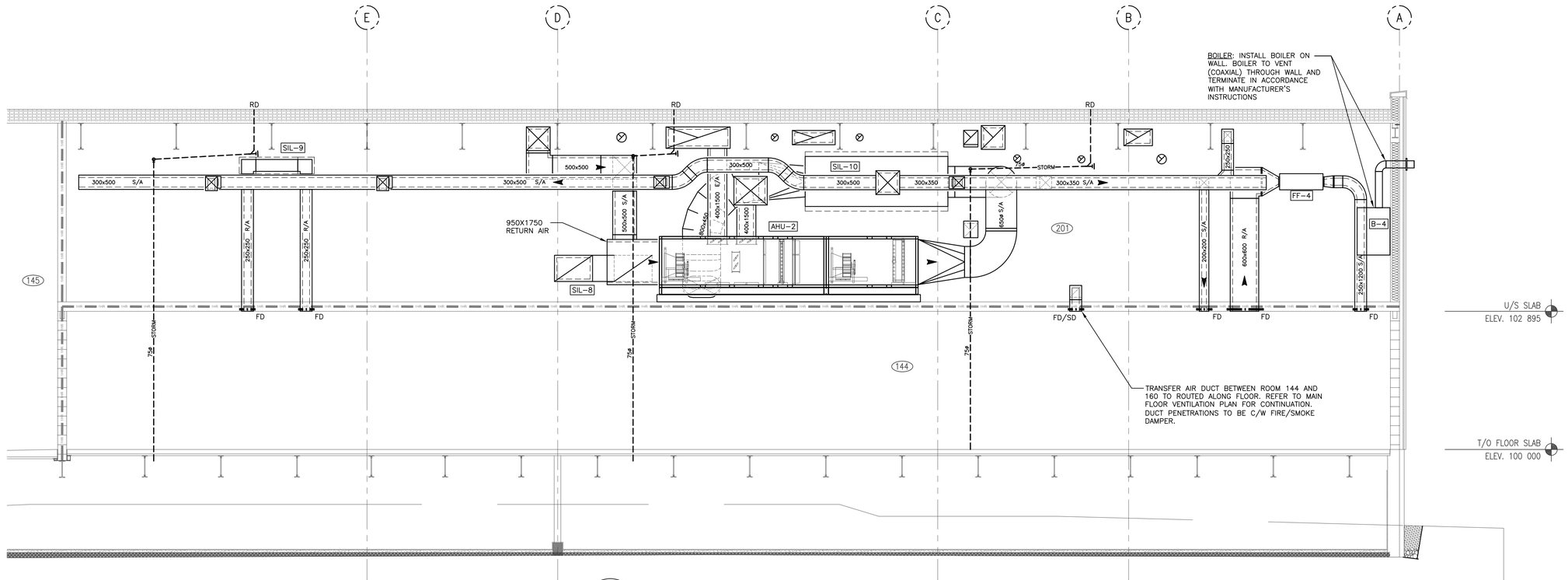


1 MECHANICAL ROOM SECTION
1:50



2 MECHANICAL ROOM SECTION
1:50

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MECHANICAL ROOM SECTIONS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	M6.7	0

PWGSC – A1 – 841X594

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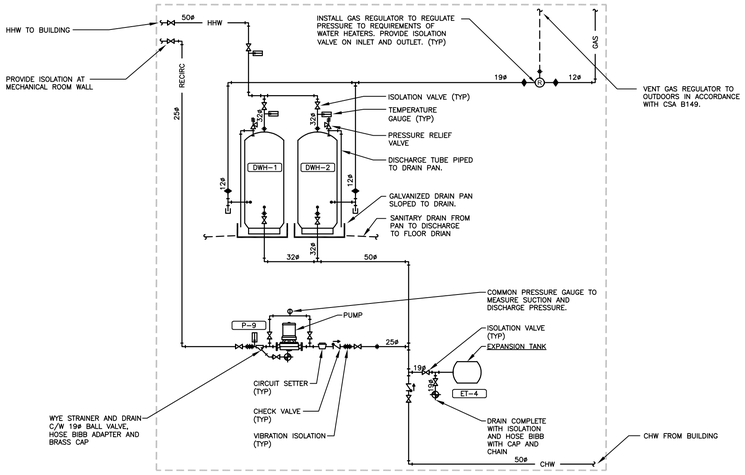
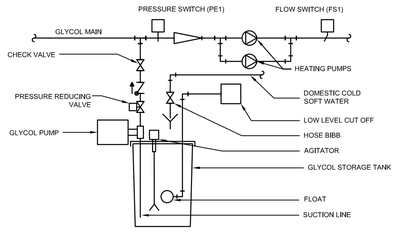
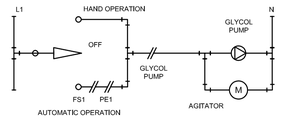


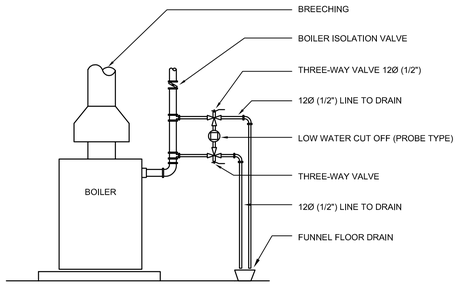
DOMESTIC HOT WATER HEATING PLANT SCHEMATIC n.t.s.

THE CONTRACTOR SHALL PIPE DOMESTIC COLD HARD WATER AND HOT HARD WATER TO ENSURE FLOW IS BALANCED BETWEEN BOTH TANKS. CONTRACTOR SHALL ENSURE EACH TANK CAN BE REMOVED FOR SERVICING WITHOUT AFFECTING OPERATION OR PIPING OF SECOND TANK, INCLUDING DRAIN DOWN, VALVING AND PIPING.





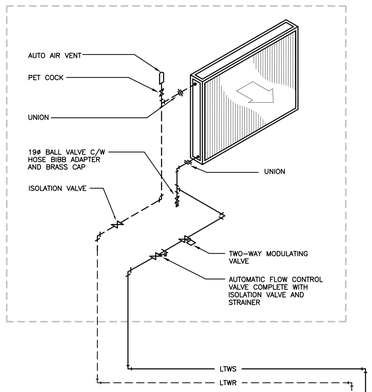
GLYCOL FILL SYSTEM SCHEMATIC



NOTE: PROBE TYPE LOW WATER CUT OFF SHALL BE PLACED DIRECTLY ON HEATING MAIN WITHOUT THREE-WAY VALVE AND ASSOCIATED DRAIN PIPING WHERE ALLOWED BY LOCAL BOILER INSPECTOR. CONTRACTOR TO CONFIRM ON SITE.

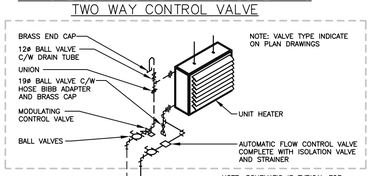
LOW WATER CUT OFF SCHEMATIC

REHEAT COIL PIPING SCHEMATIC



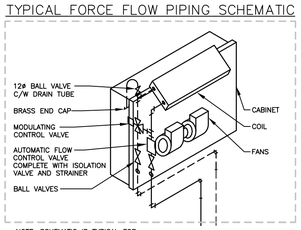
THE DETAILS AND SCHEMATICS ARE DRAWN IN ACCORDANCE WITH AN AUTOMATIC FLOW RESTRICTOR DESIGNED TO BE INSTALLED ON THE SUPPLY SIDE OF THE TERMINAL DEVICE. INSTALLATION OF ALTERNATE AUTOMATIC FLOW RESTRICTOR CONFIGURATIONS SHALL ENSURE THAT THE INTENT OF THE DETAILS AND SCHEMATICS ARE MET. THE TERMINAL DEVICE AND ALL ASSOCIATED EQUIPMENT SHALL BE ISOLATED FROM THE SYSTEM MAINS, INCLUDING THE AUTOMATIC FLOW RESTRICTOR. A STRAINER SHALL BE INSTALLED UPSTREAM OF THE CONTROL VALVES AND TERMINAL DEVICE REGARDLESS OF WHETHER THE AUTOMATIC FLOW RESTRICTORS PURCHASED NEED TO BE PROTECTED.

TYPICAL UNIT HEATER PIPING SCHEMATIC
TWO WAY CONTROL VALVE



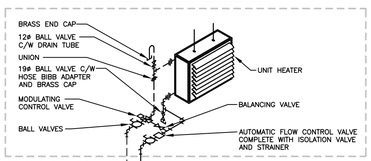
NOTE: SCHEMATIC IS TYPICAL FOR LOW TEMPERATURE AND HIGH TEMPERATURE UNIT HEATERS

TYPICAL FORCE FLOW PIPING SCHEMATIC

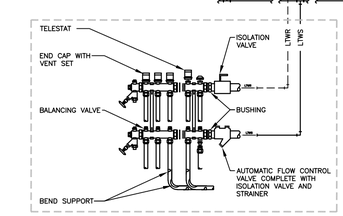


NOTE: SCHEMATIC IS TYPICAL FOR LOW TEMPERATURE AND HIGH TEMPERATURE FORCE FLOWS

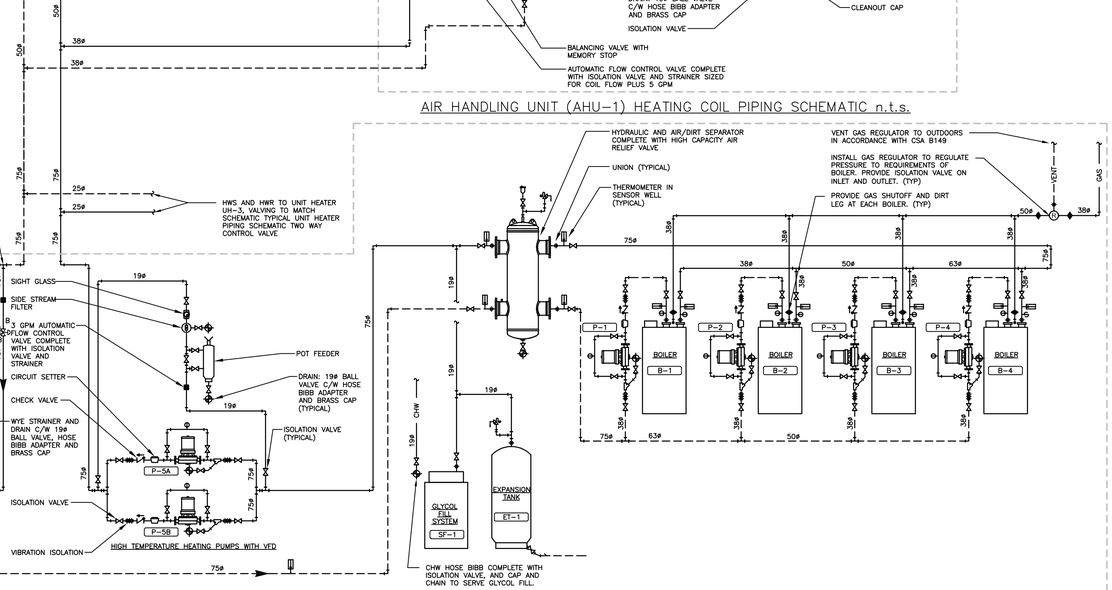
TYPICAL UNIT HEATER PIPING SCHEMATIC
THREE WAY CONTROL VALVE



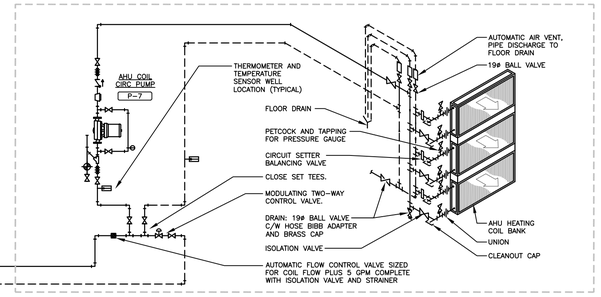
NOTE: SCHEMATIC IS TYPICAL FOR LOW TEMPERATURE AND HIGH TEMPERATURE UNIT HEATERS



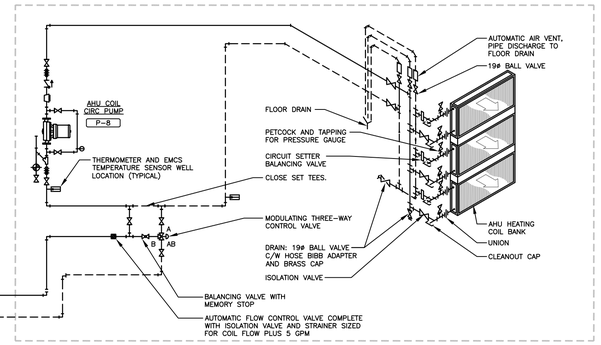
TYPICAL IN-FLOOR HEATING MANIFOLD SCHEMATIC



HEATING PLANT SCHEMATIC n.t.s.



AIR HANDLING UNIT (AHU-2) HEATING COIL PIPING SCHEMATIC n.t.s.



AIR HANDLING UNIT (AHU-1) HEATING COIL PIPING SCHEMATIC n.t.s.

1 MECHANICAL ROOM PLAN
N.T.S.

PWGSC – A1 – 841X594

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

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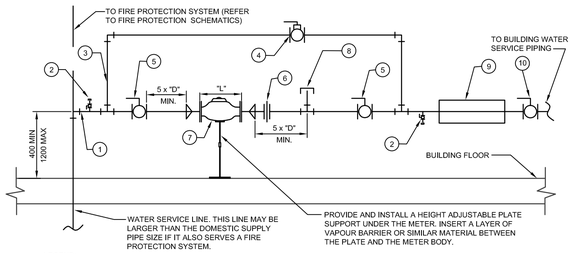


LEGEND:
1. DOMESTIC WATER SUPPLY PIPE. ISOLATING VALVES AND BYPASS VALVE MUST BE THE SAME SIZE AS THIS LINE OR THE INCOMING WATER SERVICE LINE - WHICHEVER IS SMALLER.

2. 6mm CONNECTION c/w BALL VALVE AND THREAD PLUG. ORIENT EACH CONNECTION AS SHOWN.

3. METER BYPASS LINE. THIS PIPING MAY BE ABOVE OR BELOW OR TO EITHER SIDE OF THE METER BUT IF IT IS ABOVE IT MUST BE A MINIMUM OF 500mm CLEAR ABOVE THE METER REGISTER HEAD.

4. METER BYPASS VALVE. THIS VALVE IS TO BE EITHER A BALL OR BUTTERFLY STYLE VALVE AND MUST BE EQUIPPED WITH A FACTORY SUPPLIED QUARTER TURN, LOCKABLE LEVER ACTUATOR. IF REQUIRED, THE LOCK WILL BE PROVIDED AND INSTALLED BY A REPRESENTATIVE OF THE MUNICIPALITY. BEFORE ORDERING, ENSURE VALVES PROPOSED VALVE IS APPROVED BY MUNICIPALITY, IF THE MUNCIPALITY DOES NOT HAVE AN APPROVED VALVE LIST PROVIDE VALVE IN ACCORDANCE WITH SPECIFICATIONS.

5. METER ISOLATING VALVES - 2 REQUIRED AT LOCATIONS SHOWN. VALVES TO BE EITHER BALL OR BUTTERFLY STYLE WITH QUARTER TURN LEVER ACTUATOR. IF THERE IS A FIRE PROTECTION SYSTEM SERVED FROM THE WATER SERVICE THE ISOLATING VALVE UPSTREAM OF THE METER MUST BE A LOCKABLE TYPE. BEFORE ORDERING, ENSURE VALVES PROPOSED VALVE IS APPROVED BY MUNICIPALITY, IF THE MUNCIPALITY DOES NOT HAVE AN APPROVED VALVE LIST PROVIDE VALVE IN ACCORDANCE WITH SPECIFICATIONS.

6. QUICK DISCONNECT SUCH AS PIPE UNION OR GROOVED COUPLING.

7. WATER METER. METER SIZE WILL BE DETERMINED BY THE MUNICIPALITY. METER WILL BE SUPPLIED AND INSTALLED ONLY BY MUNICIPALITY. WATER METER MUST BE MOUNTED IN THE HORIZONTAL POSITION. PROVIDE PIPING CONNECTIONS AS REQUIRED FOR METER INSTALLATION. METER SPACER WILL BE PROVIDED BY MUNICIPALITY FOR USE BY THE PIPING CONTRACTOR.

8. 6mm CONNECTION WITH NPT THREAD CAP. ORIENT CONNECTION TOWARD THE MOST ACCESSIBLE DIRECTION FOR CONNECTION AND EXTENSION OF A TEST HOSE.

9. BACKFLOW PREVENTION ASSEMBLY c/w ISOLATING VALVES AS SPECIFIED OR REQUIRED BY THE MUNICIPALITY CROSS CONNECTION CONTROL COORDINATOR. ASSEMBLY MAY BE INSTALLED IN THE VERTICAL IF THE ASSEMBLY IS CSA APPROVED FOR MOUNTING IN THAT ORIENTATION. BACKFLOW PREVENTERS MAY ONLY BE INSTALLED DOWNSTREAM OF THE WATER METER AS SHOWN.

10. BALL OR BUTTERFLY TYPE ISOLATING VALVE FOR BACKFLOW PREVENTER.

NOTES:
- PIPING MATERIALS AND INSTALLATION MUST COMPLY WITH THE CANADIAN PLUMBING CODE AND THE MUNICIPAL STANDARD CONSTRUCTION SPECIFICATIONS. PROVIDE ADDITIONAL SUPPORT IF REQUIRED TO ENSURE NO STRAIN IS TRANSMITTED TO EITHER THE METER OR BACKFLOW PREVENTER.

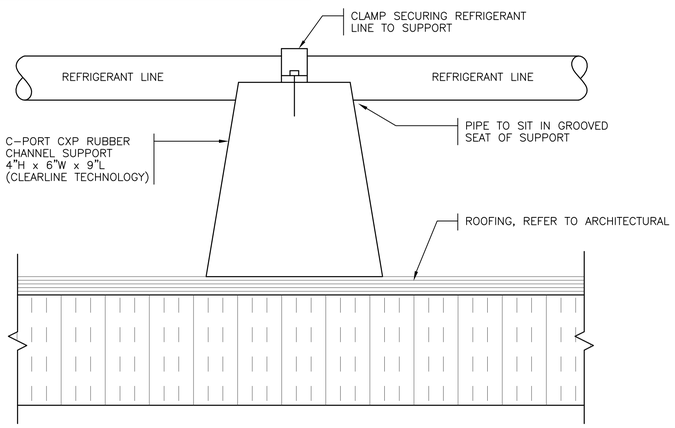
-IF METER SIZE DOES NOT MATCH WATER SERVICE SIZE, PROVIDE AND INSTALL ALL REQUIRED REDUCERS AND INCREASERS. NOTE THAT USE OF THREADED REDUCING BUSHINGS IS NOT ALLOWED. REDUCERS AND INCREASERS TO BE INSTALLED AS CLOSE TO THE METER AS POSSIBLE. NOTE THAT IN SOME CASES MUNICIPALITY WILL PROVIDE TWO SMALLER METERS IN LIEU OF ONE LARGE METER.

-DIMENSION "D" IS THE NOMINAL DIAMETER OF THE DOMESTIC WATER SUPPLY PIPE.
-DIMENSION "L" IS THE LENGTH OF A FULL DOMESTIC PIPE SIZE WATER METER. OVERALL PIPE RUN PROVIDED MUST ALLOW FOR INSTALLATION OF A METER OF THIS LENGTH.

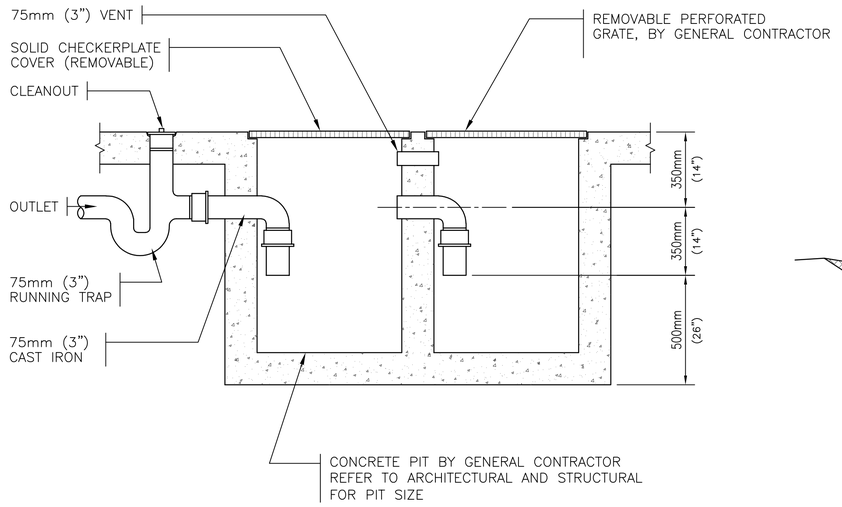
DOMESTIC WATER METER INSTALLATION SCHEMATIC

NOTE: PIPING MAY BE SUPPORTED WITH TREATED WOOD BLOCKS OR MATERIAL HAVING AT LEAST EQUIVALENT CHARACTERISTICS AS WOOD BLOCKS AND PROTECTION AGAINST OUTDOOR EXPOSURE. THE SUPPORT SPACING FOR PIPING NPS 1 AND GREATER SHALL COMPLY WITH THE TABLE AND SUPPORT SHALL BE PROVIDED FOR EVERY THREADED FITTING. HORIZONTAL PIPING ON ROOFTOPS THAT IS LESS THAN NPS 1 SHALL BE SUPPORTED EVERY 4 FEET (1.2 METERS), AND ALL TUBING SHALL BE SUPPORTED CONTINUOUSLY WITH TREATED WOOD AND PLANKS WHEN IT IS LAID ON THE ROOFTOP.

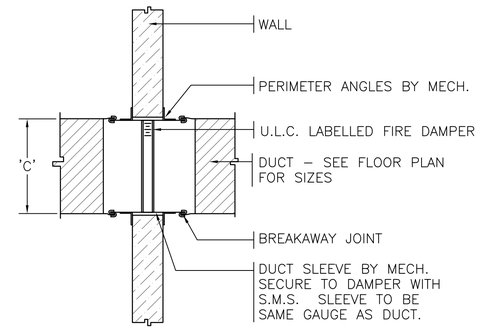
SPACING OF SUPPORTS FOR PIPING	
NPS	MAXIMUM SPACING OF SUPPORTS feet (m)
1/2" OR LESS – HORIZONTAL	6 (2)
3/4"–1" – HORZONTAL	8 (2.5)
1–1/4" – 2–1/2" – HORIZONTAL	10 (3)
3" – 4" – HORIZONTAL	15 (5)
5" – 8" – HORIZONTAL	20 (6)
10 OR LARGER – HORIZONTAL	25 (8)
ALL SIZES – VERTICAL	EVERY FLOOR, BUT NOT MORE THAN 125% OF HORIZONTAL SPACING
TUBING – ALL SIZES – VERT. AND HORIZ.	6 (2)



REFRIGERANT LINE SUPPORT DETAIL n.t.s.

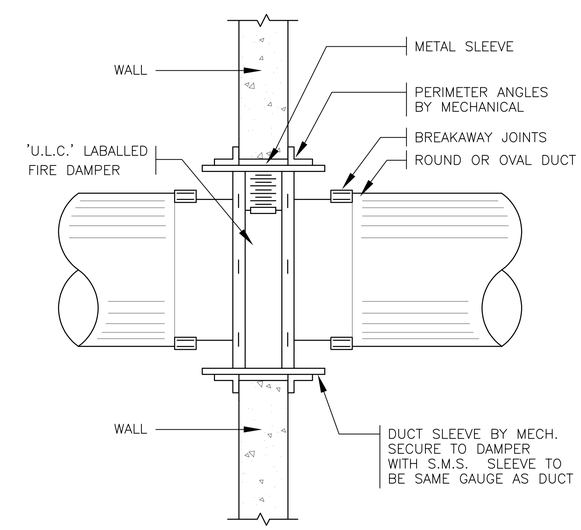


TWO–COMPARTMENT SUMP DETAIL n.t.s.

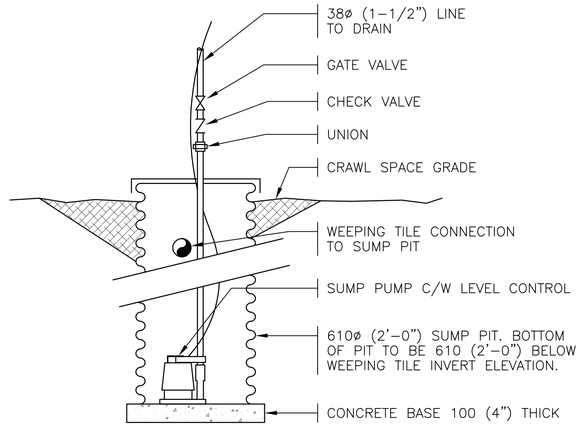


FOR DUCTS WITH 'C' DIMENSION 300 (12") AND LARGER.

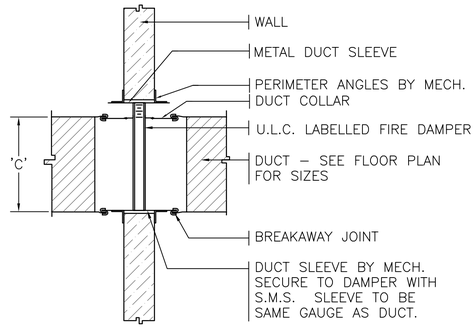
TYPE 'A' FIRE DAMPER – n.t.s.



TYPE 'C' FIRE DAMPER n.t.s.



CRAWL SPACE SUMP DETAIL n.t.s.



FOR DUCTS WITH 'C' DIMENSION SMALLER THAN 300 (12")

TYPE 'B' FIRE DAMPER – n.t.s.

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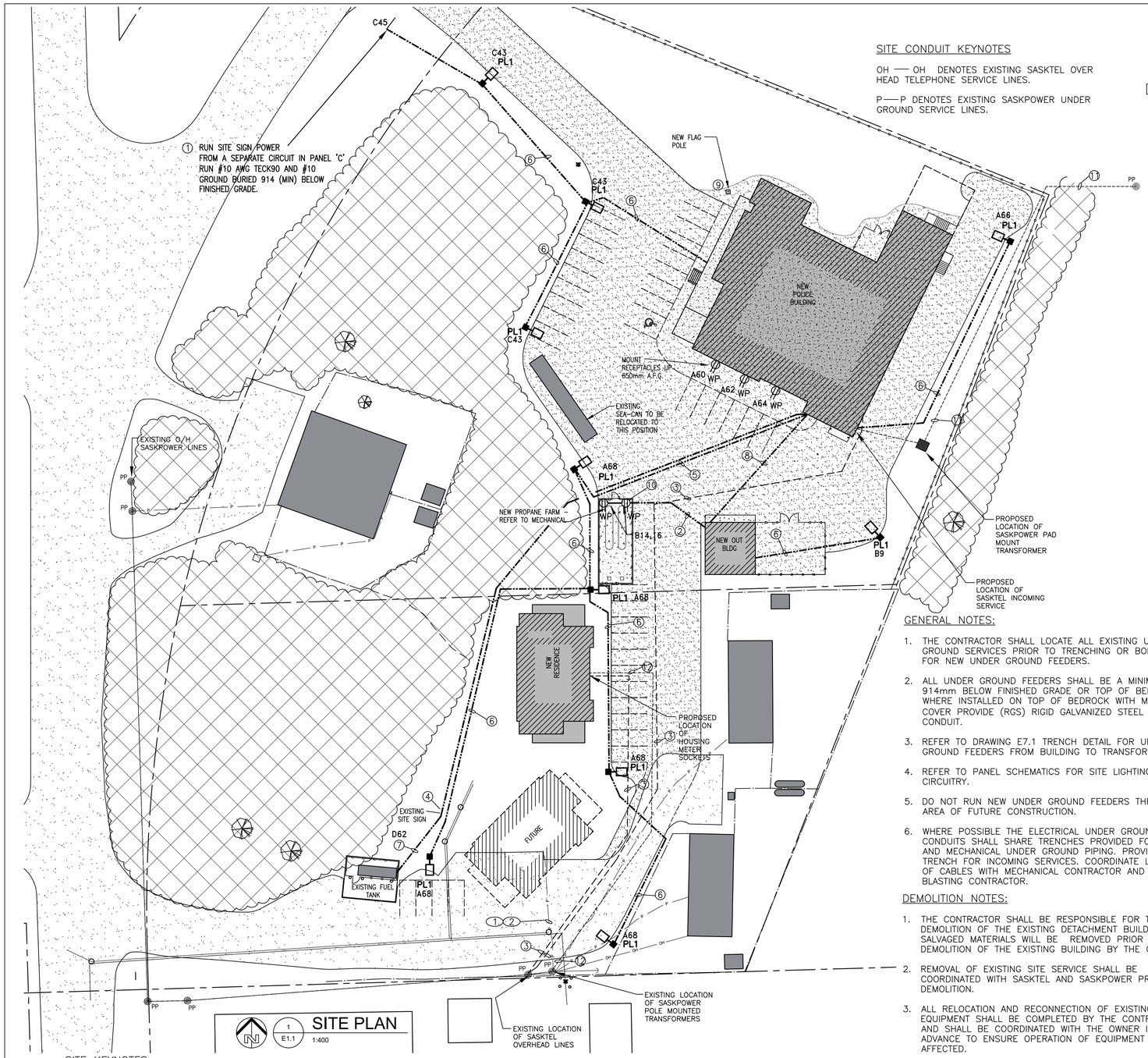

SITE CONDUIT KEYNOTES

OH —— OH DENOTES EXISTING SASKTEL OVER HEAD TELEPHONE SERVICE LINES.

P—— P DENOTES EXISTING SASKPOWER UNDER GROUND SERVICE LINES.

GENERAL NOTES:

1. THE CONTRACTOR SHALL LOCATE ALL EXISTING UNDER GROUND SERVICES PRIOR TO TRENCHING OR BORING FOR NEW UNDER GROUND FEEDERS.
2. ALL UNDER GROUND FEEDERS SHALL BE A MINIMUM OF 914mm BELOW FINISHED GRADE OR TOP OF BEDROCK. WHERE INSTALLED ON TOP OF BEDROCK WITH MINIMAL COVER PROVIDE (RGS) RIGID GALVANIZED STEEL CONDUIT.
3. REFER TO DRAWING E7.1 TRENCH DETAIL FOR UNDER GROUND FEEDERS FROM BUILDING TO TRANSFORMER.
4. REFER TO PANEL SCHEMATICS FOR SITE LIGHTING CIRCUITRY.
5. DO NOT RUN NEW UNDER GROUND FEEDERS THROUGH AREA OF FUTURE CONSTRUCTION.
6. WHERE POSSIBLE THE ELECTRICAL UNDER GROUND CONDUITS SHALL SHARE TRENCHES PROVIDED FOR CIVIL AND MECHANICAL UNDER GROUND PIPING. PROVIDE TRENCH FOR INCOMING SERVICES. COORDINATE LAYOUT OF CABLES WITH MECHANICAL CONTRACTOR AND BLASTING CONTRACTOR.

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEMOLITION OF THE EXISTING DETACHMENT BUILDING. ALL SALVAGED MATERIALS WILL BE REMOVED PRIOR TO DEMOLITION OF THE EXISTING BUILDING BY THE OWNER.
2. REMOVAL OF EXISTING SITE SERVICE SHALL BE COORDINATED WITH SASKTEL AND SASKPOWER PRIOR TO DEMOLITION.
3. ALL RELOCATION AND RECONNECTION OF EXISTING SITE EQUIPMENT SHALL BE COMPLETED BY THE CONTRACTOR AND SHALL BE COORDINATED WITH THE OWNER IN ADVANCE TO ENSURE OPERATION OF EQUIPMENT IS NOT AFFECTED.
4. DISCONNECT EXISTING SATELLITE DISH AND CUT ABANDONED CABLE BELOW GRADE. REFER TO ARCHITECTURAL DEMOLITION PLANS.
5. DISCONNECT EXISTING POWER FEEDS TO THE EXISTING PROPANE TANK FARM AND PROVIDE NEW FEEDS FROM THE NEW OUTBUILDING PANEL.
6. THE EXISTING DETACHMENT SHALL REMAIN OPERATIONAL UNTIL THE NEW DETACHMENT IS FULLY OPERATIONAL AND OWNER HAS MOVED IN.
7. THE CONTRACTOR SHALL ENSURE THAT ALL EXISTING FLUORESCENT LAMPS AND BALLAST FROM THE EXISTING DETACHMENT ARE DISPOSED OF IN A MANNER THAT MEETS THE REQUIREMENTS OF THE ENVIRONMENTAL SITE ASSESSMENT DOCUMENT INCLUDED IN THE CONTRACT DOCUMENTS.

SITE DEMOLITION NOTES

(1) DISCONNECT THE EXISTING SASKPOWER SERVICE CABLES AND SASKTEL CABLES FROM THE DETACHMENT AND REMOVE CABLES BACK TO THE SERVICE POLE.

(2) DISCONNECT THE EXISTING TELEPHONE CABLE FROM THE DETACHMENT AND REMOVE THE CABLE BACK TO THE SERVICE POLE.

SITE KEYNOTES

(1) CONNECT NEW SIGN TO NEW CIRCUIT. REFER TO PANEL SCHEMATICS.

(2) PROVIDE SIX CONDUCTOR #10 TECK90 CABLE FOR TANK HEATERS. REFER TO PANEL SCHEMATICS FOR BREAKER SIZES TANK HEATER PADS ARE 940 WATTS EACH AT 208 VOLTS.

(3) PROVIDE 50mm DB2 CONDUIT C/W PULL TWINE 914mm BELOW FINISHED GRADE FROM THE EXISTING TELEPHONE SERVICE POLE TO THE HOUSING UNIT AND STUB UP INTO THE UTILITY ROOM OF THE HOUSING UNIT. PROVIDE A SECOND CONDUIT TO THE DETACHMENT TELEPHONE ROOM.

(4) DISCONNECT EXISTING SITE SIGN AND CUT BACK ABANDONED FEEDER BELOW GRADE.

(5) PROVIDE (2) #8 TECK90 & #10 BOND FROM LIGHTING PANEL TO EACH LIGHT POST. RUN 914mm BELOW FINISHED GRADE OR AS DEEP AS POSSIBLE IN BEDROCK TO PROTECT CABLES.

(6) PROVIDE (2) #10 TECK90 & #10 BOND FROM LIGHTING PANEL TO EACH LIGHT POST. RUN 914mm BELOW FINISHED GRADE OR AS DEEP AS POSSIBLE TO PROTECT CABLES.

(7) PROVIDE SIX CONDUCTOR #6 TECK90 CABLE & #10 BOND FROM THE EXISTING FUEL DISPENSER PUMP CONTROLLER TO THE CRAWLSPACE OF THE DETACHMENT. TRANSITION TO EMT CONDUIT IN CRAWLSPACE TO THE ELECTRICAL PANEL. MAKE FINAL CONNECTIONS TO EXISTING PUMP AND LIGHT FIXTURE. REFER TO PANEL SCHEMATICS FOR FEEDER AND BREAKER SIZES. CONNECT TO EXISTING JUNCTION BOX LOCATED ON THE FUEL TANK CABINET. FUEL TANK SHALL REMAIN OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.

(8) REFER TO PANEL SCHEMATICS FOR PANEL FEEDER SIZE FROM MAIN DISTRIBUTION TO OUT BUILDING PANEL.

(9) PROVIDE 3050mm X 19mm COPPER CLAD GROUND ROD AND #10 INSULATED GROUND CONNECTED TO FLAG POLE.

(10) PROVIDE TWO 5-15R RECEPTACLES MOUNTED UP 900MM A.F.G. FOR TANK HEATER PADS. COORDINATE THE RECEPTACLE CONFIGURATION WITH THE HEATER CORDSET. REFER TO DETAIL #1 ON DRAWING E7.4.

(11) PROVIDE SERVICE TRENCH FOR SASKPOWER SERVICE CONDUCTORS FROM NEW SASKPOWER SERVICE POLE TO THE NEW PAD-MOUNT TRANSFORMER. SHARE TRENCH ALONG PROPERTY LINE WITH EXTERIOR LIGHTING CONDUCTORS. COORDINATE WITH SASKPOWER NEW SERVICE DOCUMENT.

(12) PROVIDE SERVICE TRENCH FOR SASKPOWER SERVICE CONDUCTORS FROM EXISTING SASKPOWER SERVICE POLE TO THE HOUSING UNIT METER TROUGH. SHARE TRENCH WITH SASKTEL. COORDINATE WITH SASKPOWER NEW SERVICE DOCUMENT.

SYMBOL SCHEDULE

- JUNCTION BOX/OUTLET BOX.
- CEILING/WALL SURFACE MOUNTED INCANDESCENT OR LED FIXTURE.
- RECESSED CEILING MOUNTED LED FIXTURE.
- LED FIXTURE, SURFACE MOUNTED OR SUSPENDED.
- LED FIXTURE, RECESSED.
- LED FIXTURE, SURFACE MOUNTED – NON SWITCHED
- ELECTRICAL DISTRIBUTION PANEL, SURFACE/RECESSED.
- MOTOR CONNECTION. COORDINATE FINAL LOCATION ON SITE. 'STP' DESIGNATES MOTOR THERMAL SWITCH MOUNTED AT UNIT.
- COPPER CLAD GROUND ROD 3045mm LONG X 20mm DIAMETER. CONNECTIONS SHALL BE THERMOWELD OR BURNDY HI-GRND.
- MOULDED CASE TYPE CIRCUIT BREAKER, 15 AMP UNLESS OTHERWISE NOTED.
- WP MOTOR DISCONNECT SWITCH, SUFFIX 'WP' INDICATES WEATHERPROOF.
- S S.P.S.T. SWITCH MOUNTED UP 1200mm. SUFFIX 'F' FOR FAN CONTROL.
- 3S THREE-WAY SWITCH MOUNTED UP 1200mm. LETTER SUFFIX INDICATES FIXTURE SWITCHING AND QUANTITY OF SWITCHES. E.G. S3a INDICATES ONE THREE-WAY SWITCH CONTROLLING FIXTURES WITH CORRESPONDING SUFFIX 'a', S3a;b INDICATES TWO SWITCHES.
- CS 3-POSITION LIGHT SWITCH. SWITCH MOUNTED UP 1200mm
- 4S FOUR-WAY SWITCH MOUNTED UP 1200mm.
- KS KEY OPERATED SWITCH MOUNTED UP 1200mm. CONTRACTOR SHALL PROVIDE AND INSTALL AS SPECIFIED. SWITCH SHALL BE CAMDEN CI-1KFS SERIES.
- DS DIMMER SWITCH MOUNTED UP 120mm, DIMMER SHALL BE SIZED ACCORDING TO LOAD AND SUITABLE FOR 'LED'.
- OCS WALL MOUNTED OCCUPANCY/VACANCY SENSOR UP 1200mm AS DESCRIBED ON DRAWINGS AND SPECIFICATIONS. 'DOC' DENOTES OCCUPANCY SENSOR WITH DIMMING CAPABILITIES. REFER TO SPECIFICATIONS.
- F FIRE ALARM MANUAL PULL STATION MOUNTED UP 1200mm A.F.F. SUFFIX 'STI' INDICATES DEVICE EQUIPPED WITH LEXAN COVER WITH AUDIBLE BATTERY ALARM.
- FIRE ALARM SIGNAL DEVICE (HORN/STROBE), WALL MOUNTED UP 2290mm A.F.F.
- FIRE ALARM ELECTRONIC CHIME, WALL MOUNTED UP 2290mm A.F.F.
- SPRINKLER SYSTEM FLOW SWITCH SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A MONITOR MODULE WITH A SEPARATE FIRE ALARM ADDRESS. CONFIRM THE EXACT NUMBER AND LOCATIONS OF DEVICES WITH THE MECHANICAL CONTRACTOR.
- SPRINKLER SYSTEM TAMPER SWITCH SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A MONITOR MODULE AND WIRE AS A FIRE ALARM TROUBLE/SUPERVISORY POINT. CONFIRM EXACT NUMBER AND LOCATIONS OF DEVICES WITH THE MECHANICAL CONTRACTOR.
- RM FIRE ALARM RELAY MODULE
- MM FIRE ALARM MONITOR MODULE
- ISO FIRE ALARM ISOLATOR MODULE
- FIRE ALARM MULTI-SENSOR DETECTOR, CEILING MOUNTED
- DD FIRE ALARM SMOKE DUCT DETECTOR, FACTORY MOUNTED DETECTOR IN DUCT AS SUPPLIED BY THE MECHANICAL DIVISION.
- FIRE ALARM THERMAL DETECTOR, ADDRESSABLE, CEILING MOUNTED
- C FIRE ALARM THERMAL DETECTOR, CONVENTIONAL (NON-ADDRESABLE), CEILING MOUNTED
- LVT SMOKE/FIRE DAMPER 24-VOLT ACTUATOR SUPPLIED BY THE MECHANICAL DIVISION. PROVIDE 120/24 VOLT LOW VOLTAGE TRANSFORMER, SUFFIX LVT.
- EMERGENCY LIGHTING UNIT. SEE EMERGENCY LIGHTING SPECIFICATIONS FOR DETAILS.
- a DUPLEX GROUNDED RECEPTACLE OUTLETS WITH NO SUFFIX SHALL BE MOUNTED UP 450mm. WHERE SUFFIXED, MOUNT AS FOLLOWS: 'a'- 250mm. ABOVE COUNTER; 'b'- UP 900mm.; 'c'-MOUNTED IN ARCHITECTURAL MILLWORK; 'f' FRIDGE RECEPTACLE UP 900mm; 'HK' 20A RECEPTACLE UP 450mm FOR HOUSE KEEPING; 'm' MICROWAVE RECEPTACLE UP 250mm ABOVE MICROWAVE SHELF OR COUNTER . COORDINATE WITH ARCHITECTURE MILLWORK FOR EXACT LOCATION.
- WP DUPLEX GROUND FAULT CURRENT INTERRUPTER RECEPTACLE C/W 'WHILE IN USE' METAL COVER MOUNTED UP 900mm. EQUAL TO HUBBELL BELL 5802-0.
- DUPLEX GROUNDED RECEPTACLE, SPLIT WIRED, PROTECTED BY TWO POLE BREAKER AT PANEL. SEE DRAWINGS FOR MOUNTING HEIGHT.
- DUPLEX GROUNDED RECEPTACLE MOUNTED IN RECESSED ADJUSTABLE FLUSH FLOOR BOX. REFER TO DRAWING NOTES FOR SPECIFICATIONS.
- DATA AND A/V OUTLET MOUNTED IN RECESSED ADJUSTABLE FLUSH FLOOR BOX. REFER TO DRAWING NOTES FOR SPECIFICATIONS.
- 20A DUPLEX GROUNDED RECEPTACLE, 20 AMP T-SLOT (NEMA 5-20R) MOUNTED UP 450mm.
- DUPLEX GROUNDED RECEPTACLE MOUNTED UP 450mm FED FROM EMERGENCY POWER SUPPLY. BODY OF RECEPTACLE SHALL BE IMPREGNATED 'RED' COLOUR.
- D DRYER RECEPTACLE, 30 AMP, 120/208 VOLT, 4 WIRE GROUNDED RECEPTACLE C/W COVERPLATE.
- 1D/1V DATA/VOICE OUTLET MOUNTED UP 450 mm. PROVIDE 100mm SQUARE BOX C/W SINGLE GANG EXTENSION AND 27 mm CONDUIT. SUFFIX '1D' INDICATES ONE DATA JACK, '1V' INDICATES ONE VOICE JACK.
  DATA CABLE TYPE SHALL BE TERMINATED AT THE DATA PATCH PANEL AND OUTLET BOX VOICE CABLE TYPE SHALL BE TERMINATED AT THE OUTLET BOX AND BIX BLOCK.
- OC / PC OCCUPANCY SENSOR 'OC1', CEILING MOUNTED AS DESCRIBED ON DRAWINGS, AND SPECIFICATIONS. 'PC', CEILING MOUNTED PHOTOCELL CONTROL SENSOR. MOUNT AS DIRECTED BY MANUFACTURER. PHOTOCELL CONTROL SHALL BE CONTINUOUS DIMMING. SUFFIX INDICATES FIXTURE CONTROL. REFER TO SPECIFICATIONS FOR FURTHUR INFORMATION.
- RECESSED SINGLE GANG BOX MOUNTED UP 900mm, FOR POWER DOOR OPERATOR.
- WEATHERPROOF 120 VOLT PHOTOCELL TO CONTROL EXTERIOR BUILDING LIGHTING. INTERMATIC 'K' SERIES OR APPROVED EQUAL.
- PL1 POLE MOUNTED LUMINAIRE WITH ONE HEAD.

NOTE: SUBSCRIPT 'CLG' DENOTES DEVICE IS CEILING MOUNTED.

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PROFESSIONAL ENGINEER — S.B. KEAN — MEMBER 9273 — 19 02 15 (YR. MN. DAY) — SASKATCHEWAN

ASSOCIATION OF PROFESSIONAL ENGINEERS OF SASKATCHEWAN
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0	ISSUED FOR TENDER	19/02/15

Client/client

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par
SBK

Designed by/Concept par
KAD / GTK

Drawn by/Dessine par
GTK

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

SITE PLAN & SYMBOL SCHEDULE

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	E1.1	0

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PWGSC – A1 – 841X594

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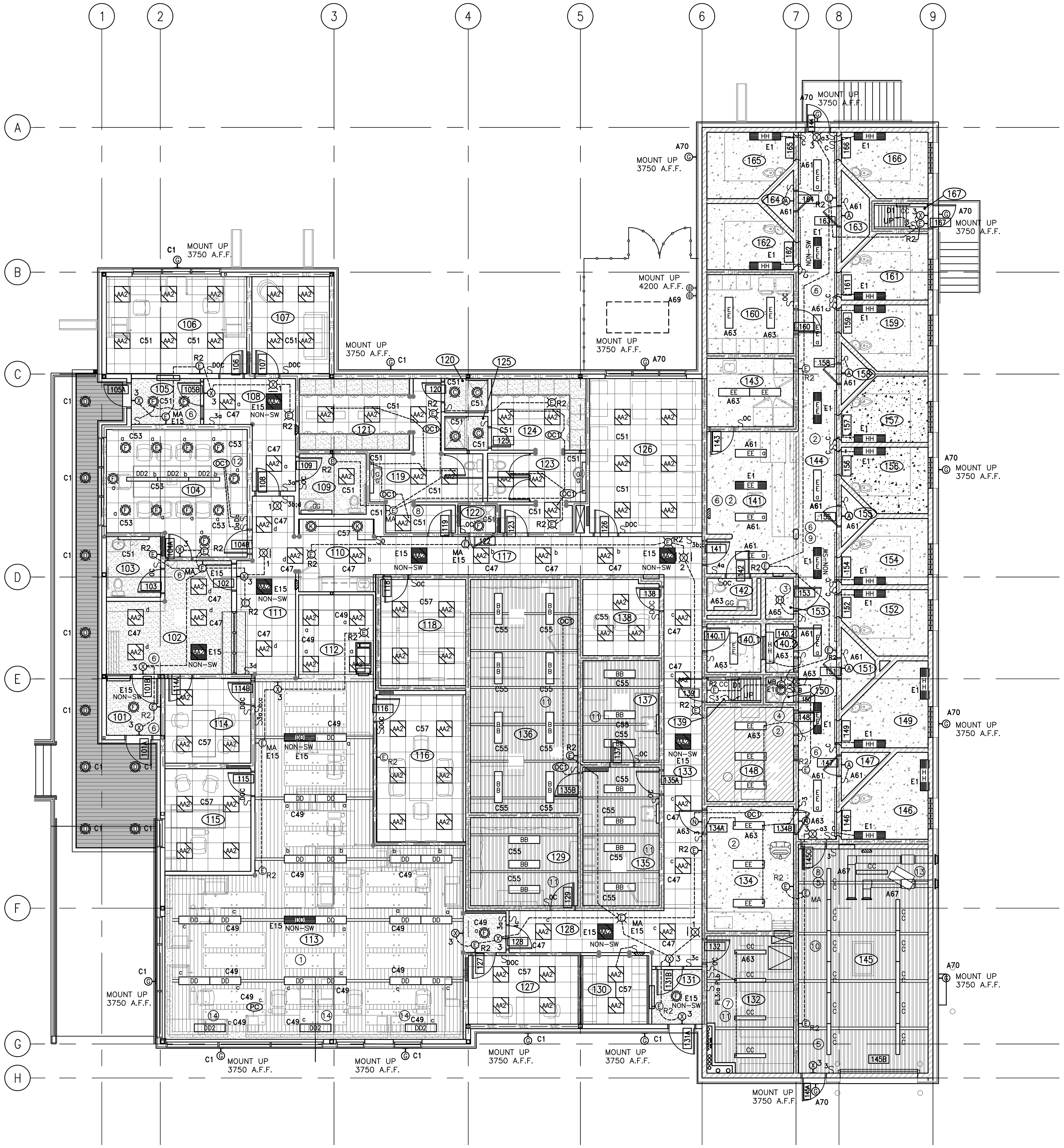

LIGHTING PLAN
1:100

MAIN FLOOR LIGHTING KEYNOTES:

1. CONDUITS FEEDING TYPE DD LIGHTING FIXTURES IN THE HIGH CEILING IN ROOM 113 SHALL BE GANGED TOGETHER AND RUN ALONG THE BOTTOM CORD OF THE TRUSSES CONCEALED. CONDUITS SHALL RUN FROM WEST SIDE OF GRID '4', THROUGH THE JOIST SEAT SPACE ON GRADE '4' INTO ADJOINING ROOMS, TIGHT TO THE UNDERSIDE OF THE WOOD DECK, AND PARALLEL TO THE BEAM. ALL CONDUIT RUNS IN EXPOSED AREAS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION. PAINT CONDUITS TO MATCH TRUSSES.
2. PROVIDE SAFETY RINGS ON LIGHT SWITCHES IN THE FOLLOWING ROOMS: 134, 141, 144 AND 148.
3. FIXTURE SHALL BE ON GFI CCT.
4. OVER-RIDE SWITCH FOR EXTERIOR LIGHTING CIRCUITS ON PANEL 'A' AND PANEL 'C'.
5. MOUNT EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS UP 3050mm A.F.F.
6. MOUNT EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS IN CORRIDOR UP 2700mm A.F.F.
7. PROVIDE (2) TWO SWITCHES C/W PILOT LIGHTS FOR CRAWLSPACE LIGHTING. LABEL "CRAWLSPACE".
8. CONNECT THE EMERGENCY BATTERY UNIT IN THIS SPACE TO THE NON-SWITCHED LEG OF THE AREA LIGHTING CIRCUIT.
9. PROVIDE ROUGH-IN FOR MECHANICAL FAN CONTROL SWITCHES IN CORRIDOR 144. REFER TO MECHANICAL DRAWING M4.2 FOR EXACT LOCATIONS. COORDINATE FINAL LOCATIONS WITH CELL LIGHT SWITCHES. WHERE SPACE IS LIMITED THE FAN SWITCH SHALL BE MOUNTED ABOVE THE LIGHT SWITCH.
10. SUSPEND FIXTURES IN THIS SPACE SO THAT THE UNDERSIDE OF FIXTURE IS AT 4600mm A.F.F.
11. SUSPEND FIXTURES IN THIS SPACE SO THAT THE UNDERSIDE OF THE FIXTURE IS AT 4000mm A.F.F.
12. THE OCCUPANCY/VACANCY SENSOR IN THIS ROOM SHALL BE CONNECTED TO THE LIGHTING CIRCUIT TO ALLOW FOR DIMMING OF FIXTURES AND TURN OFF LIGHTING CIRCUIT WHEN THE SPACE IS NOT OCCUPIED.
13. COORDINATE MOUNTING OF LIGHT FIXTURES WITH MECHANICAL DUCTS AND EQUIPMENT TO MAINTAIN CLEARANCE FROM HEATING UNIT AND FANS.
14. COORDINATE FINAL MOUNTING HEIGHTS OF TYPE DD2 WALL MOUNTED FIXTURES WITH MECHANICAL WALL GRILLS AND BULKHEAD. REFER TO ARCHITECTURAL INTERIOR ELEVATION DRAWINGS.

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NEW POLICE BUILDING
PELICAN NARROWS, SASKATCHEWAN

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Project Manager/Administrateur de Projets
Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie
Client/client

Drawing title/Titre du dessin
MAIN FLOOR PLAN
LIGHTING PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R-10-2017	E2.1	0

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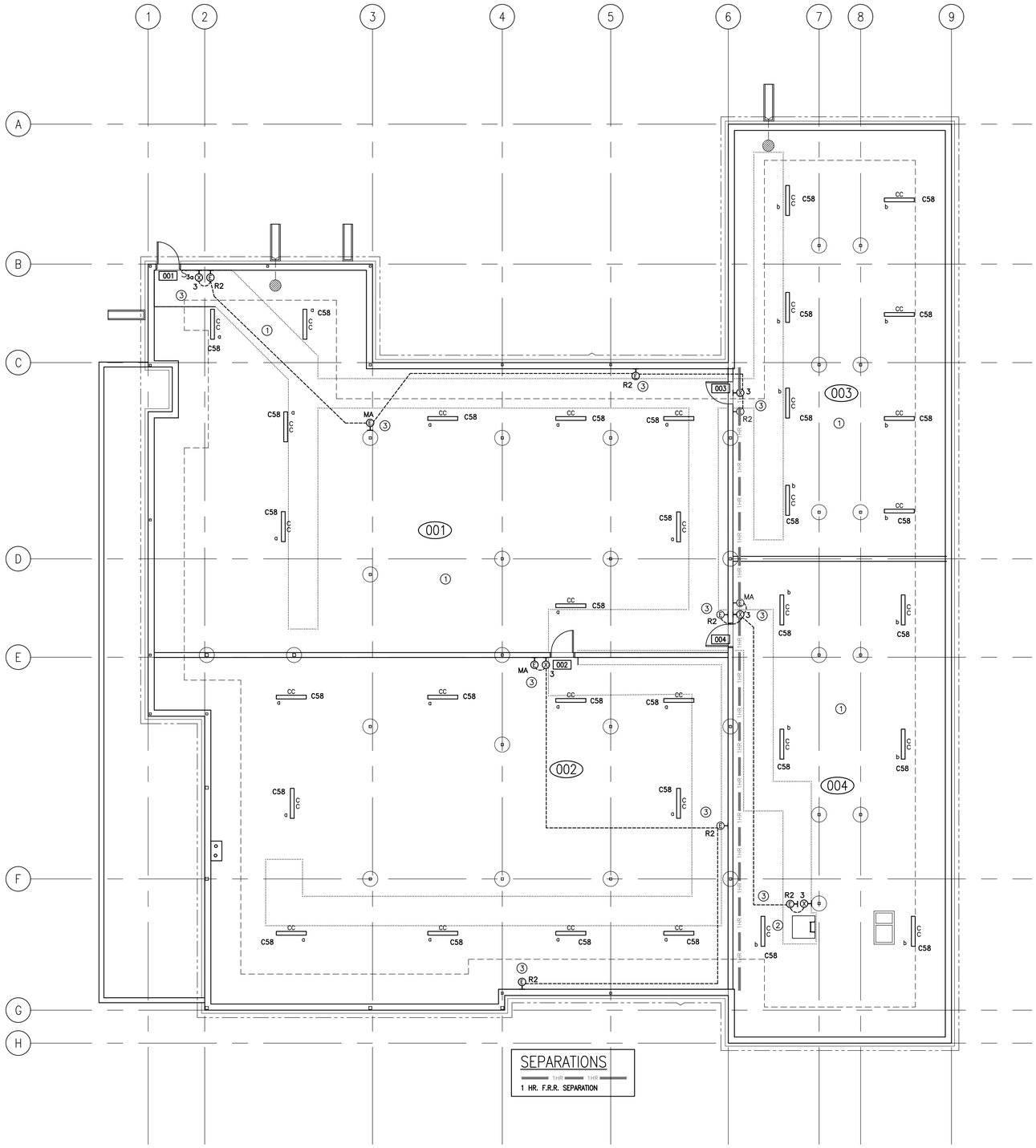

CRAWLSPACE LIGHTING KEYNOTES:

1. MOUNT TYPE 'CC' FIXTURES TO UNDERSIDE OF DECK AND RUN ALL BRANCH CIRCUITRY IN CONDUIT. COORDINATE FINAL LOCATIONS WITH MECHANICAL DUCTS AND PIPING.
2. SWITCHES C/W PILOT LIGHTS FOR CRAWLSPACE LIGHTING ARE LOCATED IN ROOM 137. REFER TO LIGHTING PLAN.
3. MOUNT EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS ON AS HIGH AS POSSIBLE AND VISIBLE ALONG PATH OF EGRESS. COORDINATE WITH MECHANICAL DUCTS FOR VISIBILITY.

1 / E2.2 LIGHTING PLAN
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CRAWLSPACE LIGHTING PLAN

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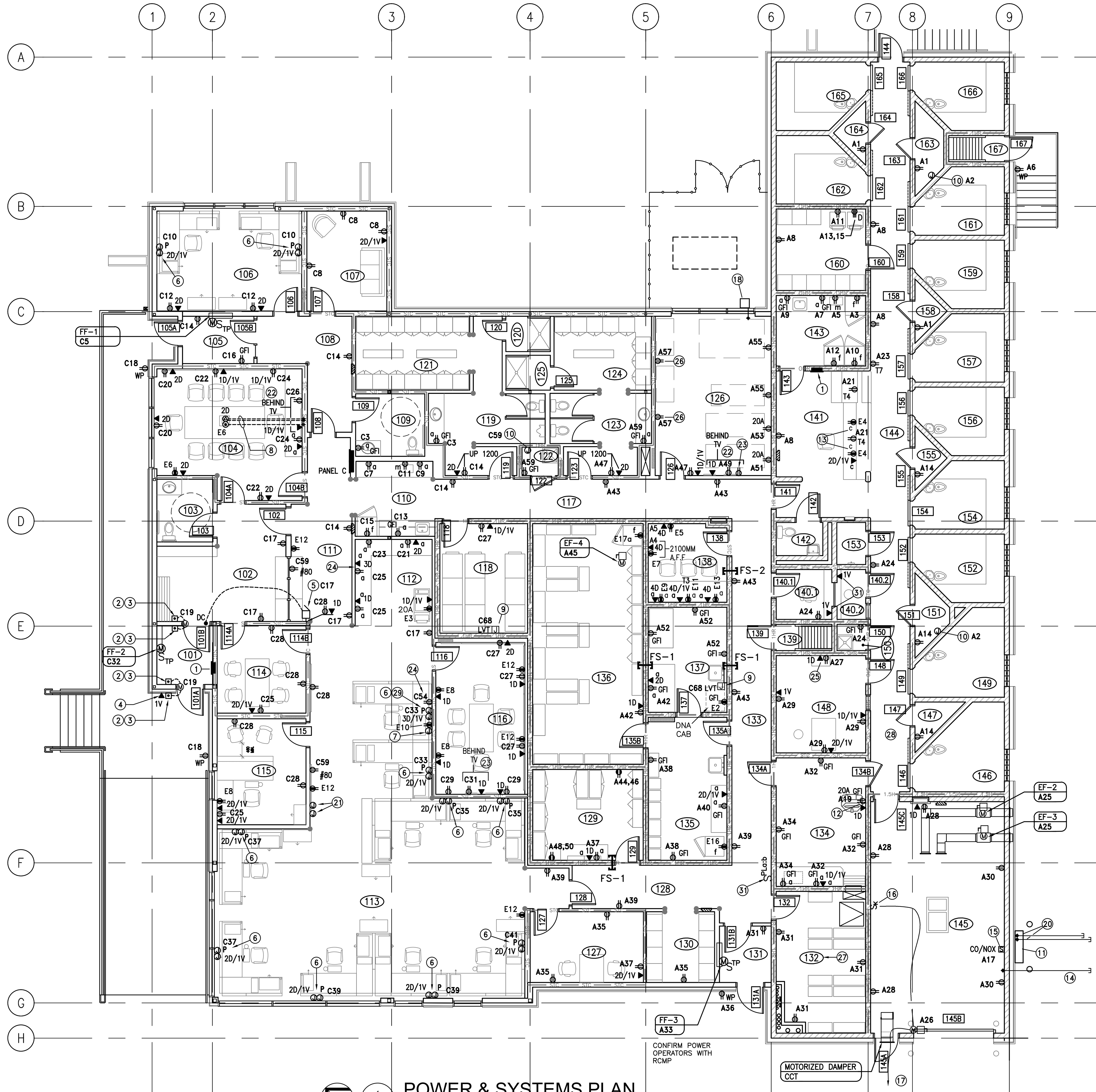

1 E3.1 **POWER & SYSTEMS PLAN**
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GENERAL NOTES:

1. AREA CONDUIT RUNS SHALL NOT CROSS THROUGH ROOMS 129, 135, 136, 137 AND 138. ONLY CONDUITS SERVING THESE SPACES ARE PERMITTED TO PENETRATE THE SPACE.
2. ALL CONDUIT RUNS IN THE OPEN OFFICE AREA CEILING SHALL RUN ALONG CEILING JOISTS AND BE PAINTED TO MATCH JOIST FINISH. CONFIRM COLOR WITH CONSULTANT PRIOR TO INSTALLATION.
3. ALL JUNCTION BOXES AND CONDUITS FOR ELECTRICAL ROUGH-IN IN AREAS WHERE CONCRETE CEILINGS ARE PROVIDED SHALL BE "CAST IN PLACE". COORDINATE ROUGH-IN WITH STRUCTURAL CONTRACTOR PRIOR TO THE CONCRETE POUR.
4. PROVIDE 120 VOLT CIRCUIT IN THE ACCESSIBLE CEILING SPACE FOR MECHANICAL CONTROL CIRCUITS. COORDINATE FINAL LOCATIONS WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN. PROVIDE ADDITIONAL 15 AMP, 1 POLE BREAKERS. REFER TO PANEL SCHEMATICS.
5. DATA & COMMUNICATION CABLES FED THROUGH FIRE RATED WALLS SHALL BE RUN THROUGH FIRE RATED PATHWAY – STI EZ-PATH SERIES OR APPROVED EQUAL. REFER ALSO TO FIRESTOPPING SPECIFICATIONS.
6. PROVIDE ADDITIONAL 120 VOLT POWER CONNECTIONS AND ADDITIONAL BREAKERS FOR CARD ACCESS SYSTEM AND RECEPTACLES IN T-CABINETS AS NOTED IN SPECIFICATIONS 28 22 00 FOR DOOR ACCESS CONTROL & ON ACCESS CONTROL CONDUIT ROUGH-IN PLAN. NOTE THAT BREAKERS ARE SHOWN ON PANEL SCHEMATICS.

FIRE RATED SLEEVE KEYNOTES

PROVIDE FIRE RATED PATHWAY DEVICES IN FIRE RATED WALLS IN LOCATIONS AND QUANTITIES NOTED ON DRAWINGS. FIRE RATED PATHWAYS SHALL BE INSTALLED AS HIGH AS POSSIBLE IN OPEN AREAS AND ABOVE CEILING TILES IN FINISHED AREAS, FOR FUTURE INSTALLATION OF DATA AND COMMUNICATION CABLE BY OWNER. PATHWAY DEVICES SHALL BE SQUARE PROFILE, 356MM LONG, PROVIDE A MINIMUM FIRE RATING OF 4 HOURS. MULTIPLE DEVICES SHALL BE MOUNTED HORIZONTALLY IN-LINE USING MANUFACTURED WALL PLATES, AND ALL PENETRATIONS AROUND THE PERIMETER OF THE DEVICES SHALL BE FIRESTOPPED. FIRE RATED PATHWAY DEVICES SHALL BE STI EZ-PATH SERIES. REFER TO ARCHITECTURAL SPECIFICATIONS.

FS-1 FIRE SLEEVE CAPACITY – 15 CABLES BASED ON 6MM CABLE SIZE.
FS-2 FIRE SLEEVE CAPACITY – 88 CABLES BASED ON 6MM CABLE SIZE.

MAIN FLOOR POWER DRAWING NOTES:

1. FIRE ALARM REMOTE ANNUNCIATOR – REFER TO SPECIFICATIONS AND DRAWING E3.3.
2. PUSH PAD FOR HANDICAP ASSIST DOOR OPERATOR UP 900mm. CONTRACTOR SHALL PROVIDE WIRING TO DOOR OPERATOR MOTOR AND JUNCTION BOX FOR PUSH BUTTON C/W 21mm EMPTY CONDUIT TO DOOR OPERATOR. CONFIRM ROUGH-IN REQUIREMENTS WITH DOOR OPERATOR SUPPLIER. (TYPICAL)
3. INTERLOCK DOOR OPERATOR WITH ELECTRIC STRIKE SO PUSHBUTTON WILL NOT OPERATE WHEN THE ELECTRIC STRIKE IS IN OPERATION MODE.
4. PROVIDE WEATHERPROOF TELEPHONE OUTLET MOUNTED UP 1300mm A.F.G.
5. WALL MOUNTED DOOR CHIME MOUNTED UP 2100mm A.F.F. PROVIDE A DOOR CONTACT TO INDICATE WHEN DOOR IS ACCESSED. PROVIDE LOW VOLTAGE TRANSFORMER FOR DOOR CHIME AND A 120 VOLT CONNECTION.
6. PROVIDE JUNCTION BOXES UP MINIMUM 450mm FOR POWER AND DATA CONNECTIONS TO OWNER SUPPLIED SYSTEMS FURNITURE. DATA CABLES SHALL HAVE EXCESS COIL OF SIX METERS TO TERMINATE IN SYSTEM FURNITURE RACEWAY. POWER FEEDS SHALL BE CONNECTED TO THE SYSTEMS FURNITURE POWER WHIP BY THE ELECTRICAL CONTRACTOR. TYPICAL OF (11) WORK STATIONS.
7. PROVIDE 100mm RECESSED SQUARE BOX EMT CONDUIT C/W PULL TWINE FOR RADIO ANTENNA CABLE SUPPLIED AND INSTALLED BY OTHERS. PROVIDE EMERGENCY RECEPTACLE AS SHOWN. REFER TO DETAIL ON DRAWING E6.1.
8. PROVIDE ONE 41mm CONDUIT C/W PULL TWINE FROM THE FLOOR BOX TO A 100mm SQUARE RECESSED JUNCTION BOX UP 450mm A.F.F. C/W BLANK STAINLESS STEEL COVER FOR OWNERS A/V CABLE. PROVIDE ONE 27mm CONDUIT FROM FLOOR BOX TO ACCESSIBLE CEILING SPACE FOR DATA CABLES. PROVIDE ONE 27mm CONDUIT FROM THE FLOOR BOX TO ACCESSIBLE CEILING SPACE FOR POWER. COORDINATE LOCATION OF RECESSED FLOOR BOX AND CONDUIT RUNS WITH IN-FLOOR HEATING COILS. PROVIDE DATA PATCH CABLE FROM FLOOR BOX TO TABLE TOP BOX. PROVIDE DATA JACK AND FACE PLATE IN TABLE BOX.
9. COMBINATION SMOKE/FIRE DAMPER IN TRANSFER DUCT AND 24-VOLT ACTUATOR FOR FIRE DAMPER. PROVIDE 120 CIRCUIT FOR CONNECTION TO A 120/24-VOLT LOW VOLTAGE TRANSFORMER. PROVIDE LOW-VOLTAGE TRANSFORMER. PRIOR TO ROUGH-IN, CONFIRM WITH THE MECHANICAL DIVISION THE LOCATION OF THE DAMPER ACTUATOR IN THE TRANSFER DUCT. REFER ALSO TO DRAWING E3.3.
10. PROVIDE 120 VOLT CIRCUIT FOR TRAP SEAL PRIMER. COORDINATE WITH MECHANICAL CONTRACTOR.
11. EXTERIOR SERVICE RATED SPLITTER. REFER TO SINGLE-LINE DRAWING. PROVIDE BOLLARDS FOR PROTECTION OF SPLITTER. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR BOLLARDS.
12. OUTLETS FOR LIVESCAN EQUIPMENT.
13. MOUNT OUTLETS IN ARCHITECTURAL MILLWORK AND FEED THROUGH CHASE IN MILLWORK TO ADJACENT WALL. REFER TO ARCHITECTURAL DETAILS.
14. PROVIDE ONE 103mm DB2 CONDUIT C/W PULL TWINE 914mm BELOW GRADE FROM CRAWLSPACE TO THE PROPERTY LINE. REFER TO SITE PLAN AND TELEPHONE SERVICE DETAILS. THE SECTION OF CONDUIT BEING RUN THROUGH THE CRAWLSPACE SHALL BE 103mm EMT.
15. PROVIDE 120 VOLT CONNECTION TO CO/NOX SENSOR. COORDINATE FINAL MOUNTING WITH CO/NOX MECHANICAL CONTRACTOR.
16. ROUGH-IN FOR ACCESS CONTROL. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. KEY SWITCH SHALL BE CAMDEN CI-1KFS SERIES.
17. ROUGH-IN FOR ACCESS CONTROL. REFER TO ARCHITECTURAL O/H DOOR OPERATOR PEDESTAL DETAIL AND E1.1. KEY SWITCH SHALL BE CAMDEN CI-1KX SERIES.
18. PROVIDE AN EXTERIOR RATED RECEPTACLE FOR CONNECTION TO EMERGENCY GENERATOR. MOUNT UP 900MM A.F.G. CONNECT TO EMERGENCY TRANSFER SWITCH. REFER TO SINGLE LINE DRAWING. PROVIDE POWER CABLE WITH MATCHING PLUG AND RECEPTACLE FOR GENERATOR.
19. NOT USED
20. PROVIDE RIGID PVC CONDUIT STUBS C/W FROST SLEEVES FROM THE EXTERIOR SPLITTER 914MM BELOW FINISHED GRADE ONE METER BEYOND THE BUILDING FOR SERVICE CONDUCTORS FOR THE MAIN DISTRIBUTION. REFER TO SINGLE LINE DRAWING E6.1, SITE PLAN E1.1, AND NOTES FOR POWER FEEDER RUNS AND SIZES. NOTE THAT THE SECTIONS OF CONDUIT BEING RUN IN THE CRAWLSPACE AND THROUGH THE BUILDING SHALL BE RIGID STEEL.
21. PROVIDE TWO 208 VOLT, 30 AMP CIRCUITS IN PANEL 'C' FOR HEAT TRACE CONTROLLERS AND WIRING FROM CONTROLLERS TO HEAT TRACE CABLE IN VENTILATED SPACE AND MAKE FINAL CONNECTION ON SITE. PROVIDE TWO SINGLE GANG OUTLET BOXES C/W BLANK COVERS TO MOUNT 'LED' ALARM INDICATOR LIGHTS ON CORRIDOR SIDE OF ROOM 115 UP 2440mm A.F.F. AND EXTEND WIRING TO CONTROLLERS (MAXIMUM 10'). LABEL "HEAT TRACE ALARM" AND MATCH LABELS TO CONTROLLERS FOR "1", "2". CONTROLLERS, LED INDICATORS, ALARM INDICATOR AND HEAT TRACE CABLES BY OTHERS. COORDINATE FINAL MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR.
22. MOUNT DATA OUTLET AND RECEPTACLE BEHIND T.V. OUT OF VIEW. COORDINATE EXACT LOCATION WITH WALL MOUNTING BRACKET SO DATA IS ON ONE SIDE AND POWER ON OPPOSITE SIDE. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATION DRAWINGS.
23. PROVIDE A DUPLEX RECEPTACLE AT THE SAME HEIGHT AS THE TV RECEPTACLE FOR OWNERS AUDIO EQUIPMENT. COORDINATE WITH EQUIPMENT SHELF. REFER TO ARCHITECTURAL ELEVATION DRAWINGS.
24. DESIGNATE LIVESCAN PRINTER DATA OVERLAY. LABEL "LIVESCAN". CONFIRM FINAL LOCATION WITH OWNER ON SITE.
25. OUTLETS FOR VIDEO COURT CABINET SHALL BE MOUNTED UP 914mm A.F.F. INSTALLER SHALL CUT OPENING IN BACK OF CABINET FOR ACCESS TO OUTLETS.
26. CUT OPENINGS IN MIRROR PANELS FOR RECEPTACLES UP 450mm A.F.F.
27. ALL SURFACE CONDUITS AND JUNCTION BOXES IN THIS ROOM SHALL BE PAINTED TO MATCH WALL OR CEILING FINISHES.
28. PROVIDE ROUGH-IN FOR FAN CONTROL SWITCHES LOCATED ADJACENT TO CELL LIGHT SWITCHES. REFER TO MECHANICAL DRAWING M4.2 FOR EXACT LOCATIONS. WHERE SPACE FOR LIGHT SWITCHES AND FAN SWITCHES IS LIMITED THE FAN SWITCH SHALL BE MOUNTED ABOVE THE LIGHT SWITCH.
29. DESIGNATE ONE DATA DROP FOR LIVESCAN EQUIPMENT PRINTER. LABEL "LIVESCAN".
30. PROVIDE TWO SWITCHES C/W PILOT LIGHTS, ONE FOR THE FUEL TANK SITE LIGHT AND THE SECOND FOR THE FUEL TANK DISPENSER PUMP. LABEL SWITCHES AS "LIGHT" AND "PUMP". REFER TO PANEL SCHEMATICS AND SITE PLAN FOR FEEDER AND BREAKER SIZES.
31. REFER TO ARCHITECTURAL ELEVATION DETAIL #8 ON A5.4 FOR MOUNTING OF VOICE JACK. OUTLET FACEPLATE SHALL BE REMOVED TO ALLOW FOR INSTALLATION OF PLYWOOD BACKING.

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PELICAN NARROWS, SASKATCHEWAN

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MAIN FLOOR PLAN
POWER & SYSTEMS PLAN

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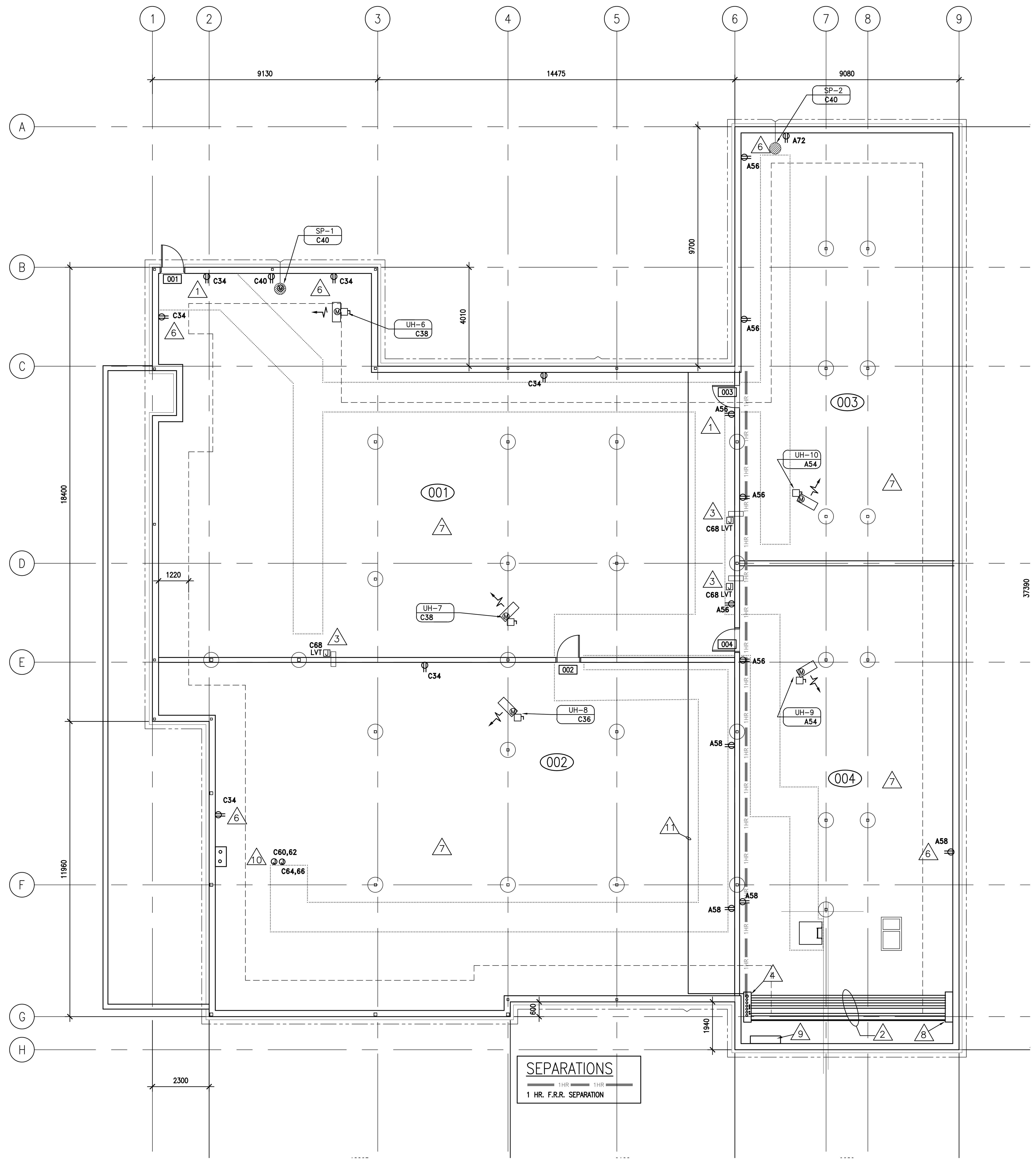


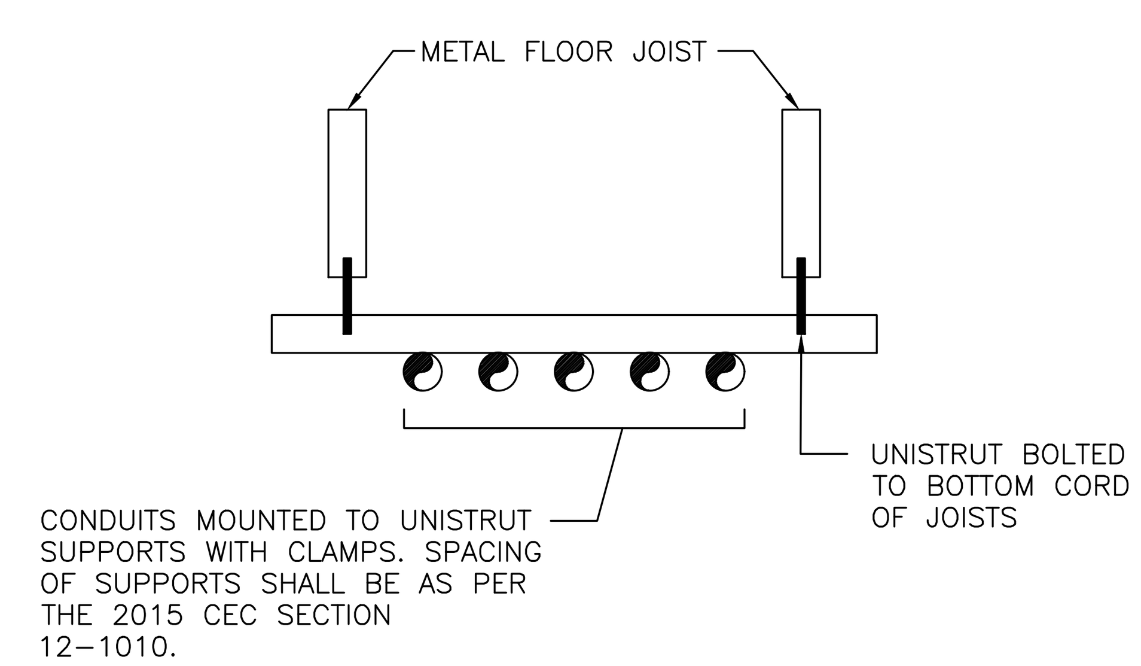
1 E3.2 POWER & SYSTEMS PLAN
1:100

GENERAL NOTES:

1. COORDINATE ALL CONDUIT RUNS WITH MECHANICAL DUCTWORK AND PIPING.
2. ALL MAIN CONDUIT RUNS SHALL BE SUPPORTED FROM THE STRUCTURAL JOISTS ON A UNISTRUT RACK FASTENED TO THE JOISTS. COORDINATE WITH STRUCTURAL DRAWINGS FOR JOIST LOCATIONS. REFER TO RACK DETAIL AND SPECIFICATIONS FOR SPACING OF SUPPORTS.
3. COORDINATE FINAL LOCATIONS OF FIRE ALARM DEVICES WITH MECHANICAL DUCTWORK AND PIPING.
4. ALL FIXTURES AND DEVICES SHALL BE INSTALLED AFTER METAL SHEETING IS INSTALLED ON THE UNDERSIDE OF THE FLOOR JOISTS. ALL PENETRATIONS SHALL HAVE FIRE STOPPING PROVIDED.

CRAWLSPACE POWER & SYSTEMS KEYNOTES:

1. MOUNT RECEPTACLES UP 914mm ABOVE FLOOR. (TYPICAL)
2. MAIN SERVICE FEEDERS SHALL RUN IN RIGID STEEL CONDUITS FROM THE EXTERIOR WALL TO THE SERVICE SPACE. INCOMING TELEPHONE SERVICE CONDUIT SHALL BE EMT AND SHALL RUN ON THE UNDERSIDE OF THE DECK AND STUB UP TO THE MEZZANINE TELEPHONE ROOM. REFER TO SINGLE LINE DRAWINGS AND DETAILS FOR CONDUIT AND FEEDER SIZES.
3. COMBINATION SMOKE/FIRE DAMPER TRANSFER DUCT AND 24-VOLT ACTUATOR FOR FIRE DAMPER. PROVIDE 120 VOLT CIRCUIT FOR CONNECTION TO A 120/24 VOLT LOW VOLTAGE TRANSFORMER. PROVIDE THE 120/24 VOLT TRANSFORMER. PRIOR TO ROUGH-IN, CONFIRM WITH THE MECHANICAL DIVISION THE LOCATION OF THE DAMPER ACTUATOR IN THE DUCT. REFER ALSO TO DRAWING E3.4.
4. PROVIDE PULL BOX FOR CONDUIT RISERS (SIZED AS PER 2015 CANADIAN ELECTRICAL CODE) MOUNTED TO THE UNDERSIDE OF METAL DECK. RUN CONDUIT IN CRAWLSPACE FROM PULL BOX TO THE MAIN DISTRIBUTION AND PANEL LOCATIONS IN THE MAIN ELECTRICAL ROOM. JUNCTION BOXES IN THE CRAWLSPACE SPACE SHALL BE ACCESSIBLE FOLLOWING THE METAL SHEETING INSTALLATION.
5. COORDINATE LOCATION OF LIGHTING FIXTURES WITH MECHANICAL DUCTS AND BEAMS. CONDUITS SHALL RUN TIGHT TO THE UNDERSIDE OF BEAMS. CONNECT LIGHTING TO SWITCHES LOCATED IN ROOM 132 ADJACENT TO ACCESS HATCH.
6. PROVIDE RECEPTACLE FOR FUTURE SOIL GAS COLLECTOR SYSTEM. MOUNT ON WALL 300mm BELOW FLOOR STRUCTURE.
7. CONDUIT RUN FOR GENERATOR FEED. STUB UP TO GENERATOR PLUG ON EXTERIOR AND TRANSITION TO RIGID PVC ON EXTERIOR.
8. PROVIDE PULL BOX FOR TRANSITION OF CONDUITS FROM RIGID PVC TO RIGID STEEL. PROVIDE WATER TIGHT SEAL AT WALL PENETRATIONS.
9. PROVIDE PULL BOX SIZED FOR RISER CABLES TO SITE SERVICES. REFER TO SITE PLAN FOR CONDUCTOR AND CABLE SIZES. PROVIDE WATER TIGHT SEAL AT WALL PENETRATIONS.
10. PROVIDE CONNECTION TO HEAT TRACE CONTROLLER/ THERMOSTAT. WIRING FROM CONTROLLER TO HEAT TRACE CABLE AND FINAL CONNECTIONS BY MECHANICAL CONTRACTOR.
11. CONDUIT RUN FOR GENERATOR FEED. STUB UP TO GENERATOR PLUG ON EXTERIOR AND TRANSITION TO RIGID PVC ON EXTERIOR.



2 E3.2 MAIN CONDUIT RUN DETAIL
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CRAWLSPACE
POWER & SYSTEMS PLAN

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R-10-2017	E3.2	0

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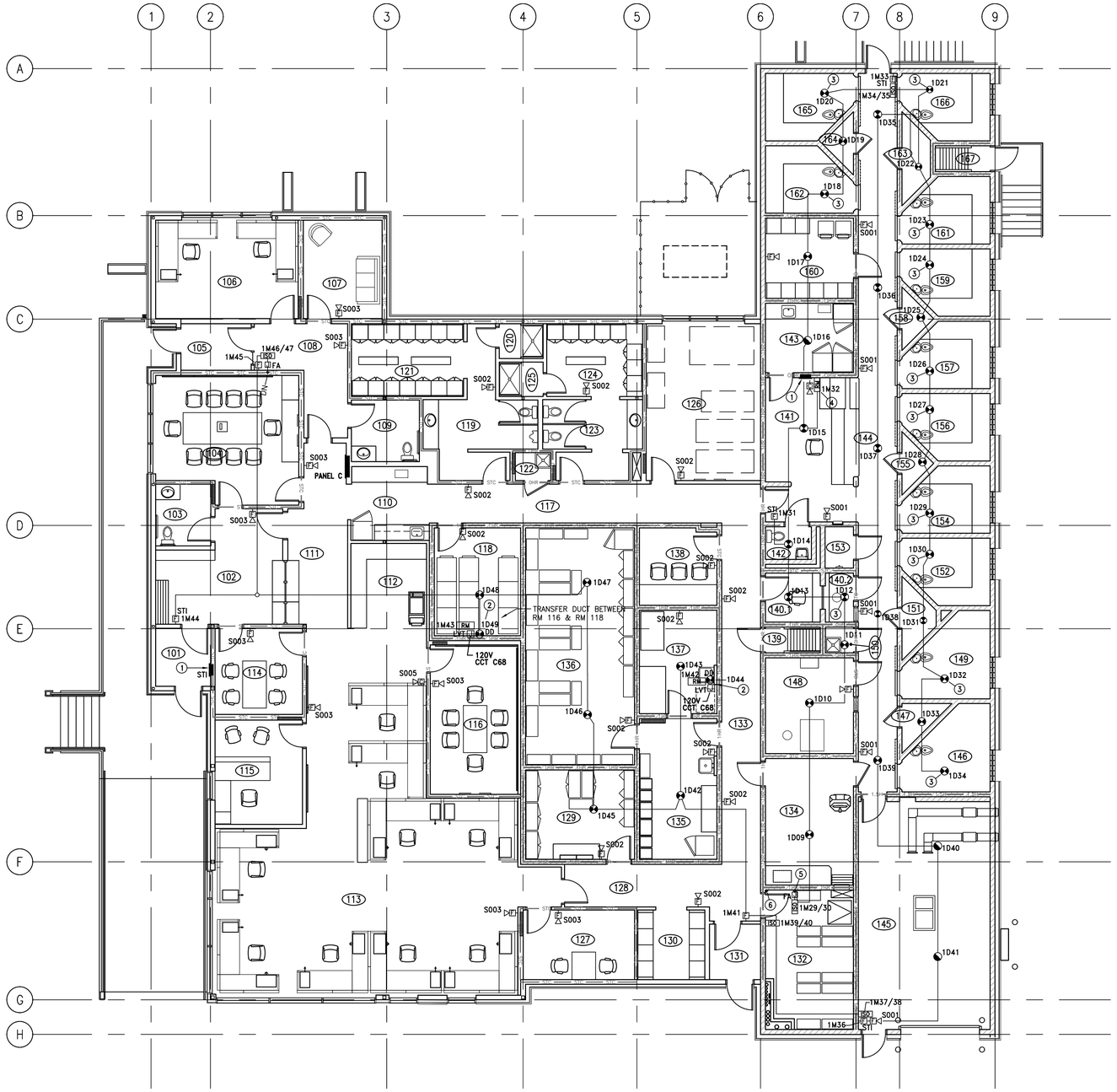

MAIN FLOOR PLAN - FIRE ALARM

1 / E3.3 — 1:100

MAIN FLOOR GENERAL NOTES:

1. AREA CONDUIT RUNS SHALL NOT CROSS THROUGH ROOMS 129, 135, 136, 137 AND 138. ONLY CONDUITS SERVING THESE SPACES ARE PERMITTED TO PENETRATE THE SPACE.
2. ALL CONDUIT RUNS IN THE OPEN OFFICE AREA CEILING SHALL RUN ALONG CEILING JOISTS AND BE PAINTED TO MATCH JOIST FINISH. CONFIRM COLOR WITH CONSULTANT PRIOR TO INSTALLATION.
3. ALL JUNCTION BOXES AND CONDUITS FOR ELECTRICAL ROUGH–IN IN AREAS WHERE CONCRETE CEILINGS ARE PROVIDED SHALL BE "CAST IN PLACE". COORDINATE ROUGH–IN WITH STRUCTURAL CONTRACTOR PRIOR TO THE CONCRETE POUR.

DRAWING NOTES:

(1) REMOTE FIRE ALARM ANNUNCIATOR PANEL RECESSED/FLUSH MOUNTED IN WALL. PANEL SHALL BE PROVIDED A TAMPER PROOF LOCKABLE COVER.

(2) COMBINATION SMOKE/FIRE DAMPER WITH FACTORY MOUNTED SMOKE DUCT DETECTOR AND 24–VOLT ACTUATOR (TWO–POSITION, FAIL CLOSE OPERATION) SUPPLIED BY THE MECHANICAL DIVISION. THE ADDRESSABLE DUCT DETECTOR SHALL BE MONITORED BY THE FIRE ALARM SYSTEM. PROVIDE END–OF–LINE RESISTOR FOR CONNECTION TO THE DUCT DETECTOR SUPERVISORY CONTACTS. PROVIDE A 24–VOLT CIRCUIT TO THE FIRE DAMPER ACTUATOR VIA A 120/24 VOLT LOW VOLTAGE TRANSFORMER FED FROM FIRE DAMPER CIRCUIT C–68. THE 24–VOLT ACTUATOR CIRCUIT SHALL BE CONNECT THROUGH THE DUCT DETECTOR 24–VOLT AUXILIARY CONTACTS AND THROUGH A FIRE ALARM RELAY MODULE. ACTIVATION OF EITHER THE FIRE ALARM SYSTEM OR DUCT DETECTOR SHALL OPEN THE 24–VOLT ACTUATOR CIRCUIT AND RESULT IN THE CLOSING OF THE SMOKE/FIRE DAMPER.

(3) SMOKE DETECTOR SHALL BE PROVIDED AN APPROVED CAGE. REFER TO ARCHITECTURAL DETAIL FOR DIMENSIONS FOR THESE ROOMS.

(4) RELAY MODULE TO INTERCONNECTION TO ELECTRONIC CHIME, PROGRAMMED TO PROVIDE AN AUDIBLE ALARM DURING THE ACTIVATION OF THE OUT BUILDING FIRE ALARM INITIATING DEVICES.

(5) FIRE ALARM CONDUIT RISER FROM SERVICE SPACE, ISOLATOR MODULE 1M03/04 TO ISOLATOR MODULE 1M29/30 – ADDRESSABLE LOOP OUT TO MAIN FLOOR FIRE ALARM DEVICES.

(6) FIRE ALARM CONDUIT RISER FROM FIRE ALARM DEVICES LOCATED IN CRAWLSPACE 004, RETURN LOOP FROM CRAWLSPACE ISOLATOR MODULE 1M58/59 UP TO ISOLATOR MODULE 1M60/61 AT FIRE ALARM PANEL IN ELECTRICAL ROOM 204. PROVIDE AT LEAST 1200MM SEPARATION BETWEEN THE FIRE ALARM RISERS (DRAWING NOTES 5 AND 6).

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Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par
SBK

Designed by/Concept par
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Drawn by/Dessine par
GTK

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MAIN FLOOR PLAN
FIRE ALARM PLAN

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	E3.3	0

DRAWING PLOTTED:
JAN 21, 2015 - 2:00
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DRAWING: E3.3

PWGSC – A1 – 841X594

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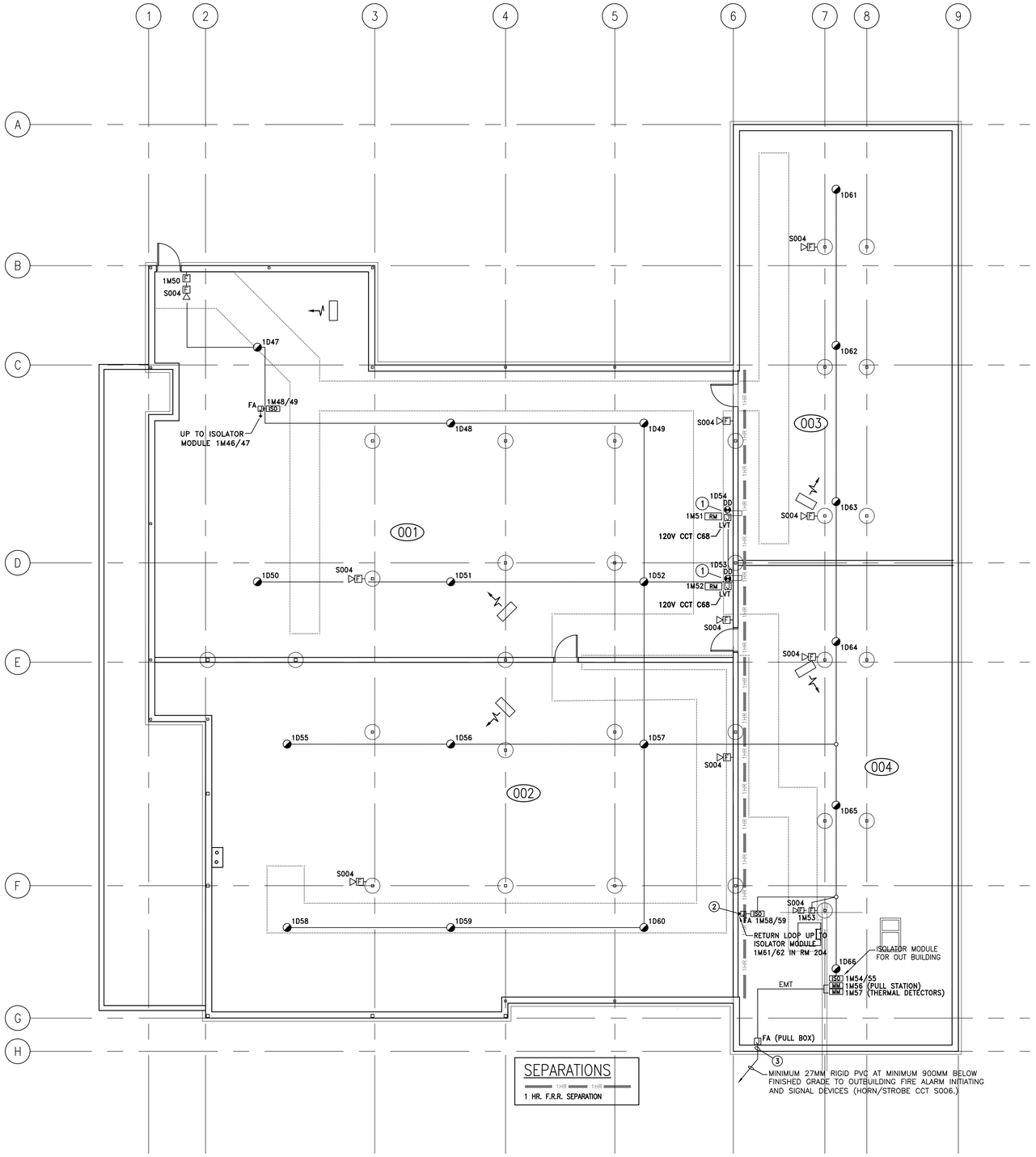

1 / E3.4 CRAWLSPACE PLAN - FIRE ALARM

1:100

CRAWLSPACE – GENERAL NOTES:

1. COORDINATE ALL CONDUIT RUNS WITH MECHANICAL DUCTWORK AND PIPING.
2. ALL MAIN CONDUIT RUNS SHALL BE SUPPORTED FROM THE STRUCTURAL JOISTS ON A UNISTRUT RACK FASTENED TO THE JOISTS. COORDINATE WITH STRUCTURAL DRAWINGS FOR JOIST LOCATIONS. REFER TO RACK DETAIL AND SPECIFICATIONS FOR SPACING OF SUPPORTS.
3. COORDINATE FINAL LOCATIONS OF FIRE ALARM DEVICES WITH MECHANICAL DUCTWORK AND PIPING.
4. ALL DEVICES SHALL BE INSTALLED AFTER METAL SHEETING IS INSTALLED ON THE UNDERSIDE OF THE FLOOR JOISTS. ALL PENETRATIONS SHALL HAVE FIRE STOPPING PROVIDED.
5. HORN/STROBES IN THE CRAWLSPACE SHALL BE MOUNTED AT A HEIGHT THAT IS LOWER THAN DUCT WORK AND MECHANICAL PIPING SO AS TO BE VISIBLE AT ALL VIEWING ANGLES.

DRAWING NOTES:

(1) COMBINATION SMOKE/FIRE DAMPER WITH FACTORY MOUNTED SMOKE DUCT DETECTOR AND 24–VOLT ACTUATOR (TWO–POSITION, FAIL CLOSE OPERATION) SUPPLIED BY THE MECHANICAL DIVISION. THE ADDRESSABLE DUCT DETECTOR SHALL BE MONITORED BY THE FIRE ALARM SYSTEM. PROVIDE END–OF–LINE RESISTOR FOR CONNECTION TO THE DUCT DETECTOR SUPERVISORY CONTACTS. PROVIDE A 24–VOLT CIRCUIT TO THE FIRE DAMPER ACTUATOR VIA A 120/24 VOLT LOW VOLTAGE TRANSFORMER FED FROM FIRE DAMPER CIRCUIT C–68. THE 24–VOLT ACTUATOR CIRCUIT SHALL BE CONNECT THROUGH THE DUCT DETECTOR 24–VOLT AUXILIARY CONTACTS AND THROUGH A FIRE ALARM RELAY MODULE. ACTIVATION OF EITHER THE FIRE ALARM SYSTEM OR DUCT DETECTOR SHALL OPEN THE 24–VOLT ACTUATOR CIRCUIT AND RESULT IN THE CLOSING OF THE SMOKE/FIRE DAMPER.

(2) FIRE ALARM CONDUIT RISER FROM FIRE ALARM DEVICES LOCATED IN CRAWLSPACE 004, RETURN LOOP FROM CRAWLSPACE ISOLATOR MODULE 1M59/60 UP TO ISOLATOR MODULE 1M61/62 AT FIRE ALARM PANEL IN ELECTRICAL ROOM 204.

(3) PROVIDE WATER TIGHT SEAL OF CONDUIT PENETRATION THROUGH FOUNDATION.

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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

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CRAWLSPACE FIRE ALARM PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	E3.4	0

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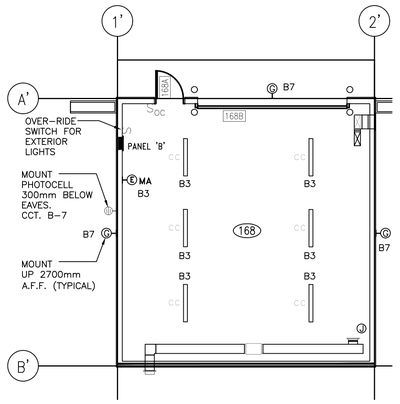

1 E4.1 — OUT BUILDING LIGHTING PLAN
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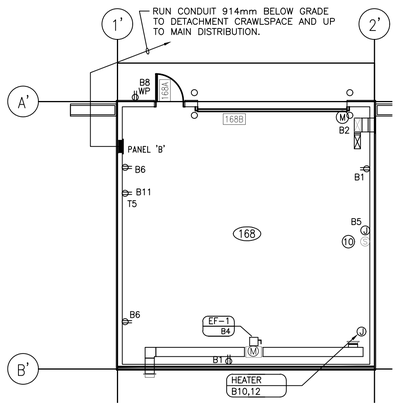

2 E4.1 — OUT BUILDING POWER & SYSTEMS PLAN
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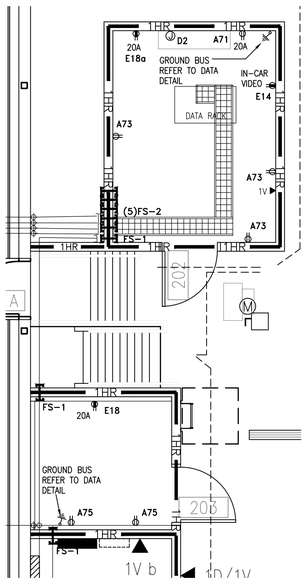

5 E4.1 — RM 202, 203 PLAN
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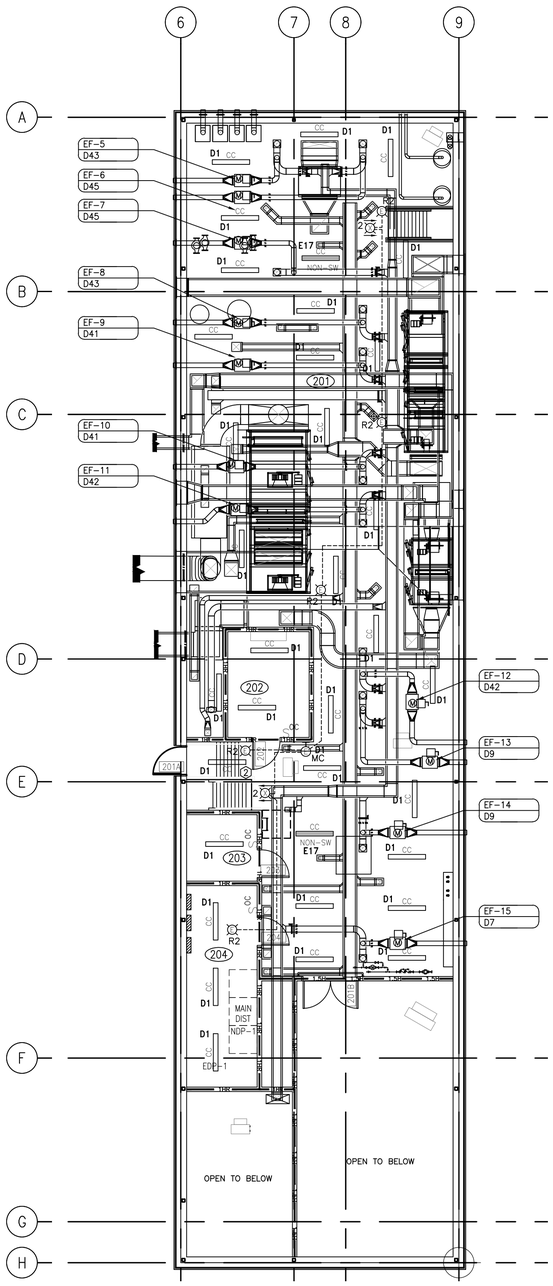
DRAWING NOTES:

1. BASKET TYPE CABLE TRAY SHALL STUB INTO THE ACCESSIBLE CEILING SPACE OF THE CORRIDOR WHERE AREA CONDUITS TERMINATE, MAXIMUM OF (5) FS-2 SERIES FIRE RATED PATHWAY DEVICES. REFER TO SPECIFICATIONS.
2. 53mm CONDUIT UP 2300mm A.F.F., C/W MULTI-PAIR TELEPHONE HOUSE CABLE. REFER TO SPECIFICATIONS. REFER TO E7.2 DETAIL.
3. A/C UNIT FED FROM CONDENSER UNIT LOCATED ON ROOF.
4. NOT USED
5. MOUNT RECEPTACLE AND DATA/VOICE OUTLETS UP 1200mm AND 1200mm FOR MECHANICAL SYSTEM CONNECTION.
6. NOT USED.
7. PROVIDE 19MM PAINTED G1S PLYWOOD ON THREE SIDES OF ROOM 203 FROM FLOOR TO CEILING. REFER TO DETAIL ON DRAWING Exx.
8. TELEPHONE BIX BLOCKS. REFER TO TELEPHONE DETAIL ON DRAWING E7.2.
9. RUN CONDUITS ACROSS CEILING UP 2400mm A.F.F. OVER TO WALL AND DROP DOWN ALONG WALL AND STUB OUT INTO ACCESSIBLE CEILING SPACE OF THE CORRIDOR OF THE MAIN FLOOR. MAXIMUM OF (5) FIVE LARGE DIAMETER CONDUITS. REFER TO SPECIFICATIONS.
10. PROVIDE 120 VOLT CONNECTION TO CO/NOX SENSOR.

SERVICE SPACE GENERAL NOTES:

1. COORDINATE LOCATIONS OF LUMINAIRES WITH MECHANICAL DUCTS AND PIPING TO ACHIEVE OPTIMUM LIGHTING OF SPACE.
2. MOUNT LUMINAIRE AS HIGH AS POSSIBLE ABOVE LANDING AND CONNECT TO SERVICE SPACE LIGHTING CIRCUIT.
3. PROVIDE CONNECTION TO AHU LIGHTS AND RECEPTACLES, CIRCUITS D-44 AND D-46 AND ER WHEEL.
4. NORMAL POWER PANEL 'A', REFER TO PANEL SCHEMATICS.
5. NORMAL POWER PANEL 'D', REFER TO PANEL SCHEMATICS.
6. EMERGENCY DISTRIBUTION PANEL 'E', REFER TO PANEL SCHEMATICS AND SPECIFICATIONS.
7. 120/208 VOLT MAIN DISTRIBUTION 'NDP-1', REFER TO SINGLE LINE DRAWING.
8. NOT USED
9. MAIN FIRE ALARM PANEL.
10. PROVIDE RIGID STEEL CONDUITS & CONDUCTORS FROM DISTRIBUTION THROUGH ROOM 132 DOWN TO THE EXTERIOR SPLITTER. REFER TO SINGLE LINE DRAWING E6.1, SITE PLAN E1.1, AND NOTES FOR FEEDER RUNS AND SIZES. NOTE THAT THE SECTIONS OF CONDUIT BEING RUN IN THE CRAWLSPACE AND THROUGH THE BUILDING SHALL BE RIGID STEEL.
11. ALL ELECTRICAL SERVICE CONDUITS SHALL BE CLEAR FROM STAIR AND LADDERS. MOUNT AS HIGH AS POSSIBLE FOR CLEARANCE.
12. PROVIDE 103mm EMT CONDUIT C/W PULL TWINE THROUGH ELECTRICAL ROOM TO CRAWLSPACE FOR SASKTEL SERVICE CABLE. REFER TO E3.1 DETAIL.
13. COMBINATION SMOKE/FIRE DAMPER WITH 24-VOLT ACTUATOR FOR DAMPER. PROVIDE 120 VOLT CIRCUIT FOR CONNECTION TO A 120/24 VOLT LOW VOLTAGE TRANSFORMER. PROVIDE THE LOW VOLTAGE TRANSFORMER. REFER ALSO TO DRAWING E4.2.
14. PROVIDE ONE DEDICATED VOICE JACK ADJACENT TO THE FIRE ALARM MONITORING PANEL AND RUN CABLE TO MAIN TELEPHONE BIX BLOCK IN ROOM 203 AND TERMINATE ON BIX BLOCK. COORDINATE FINAL LOCATION WITH MONITORING PANEL INSTALLATION, PROVIDED AND INSTALLED BY OTHERS. FINAL CONNECTION OF THE REMOTE MONITORING PANEL TO THE FIRE ALARM PANEL BY OTHERS.



3 E4.1 — LIGHTING PLAN
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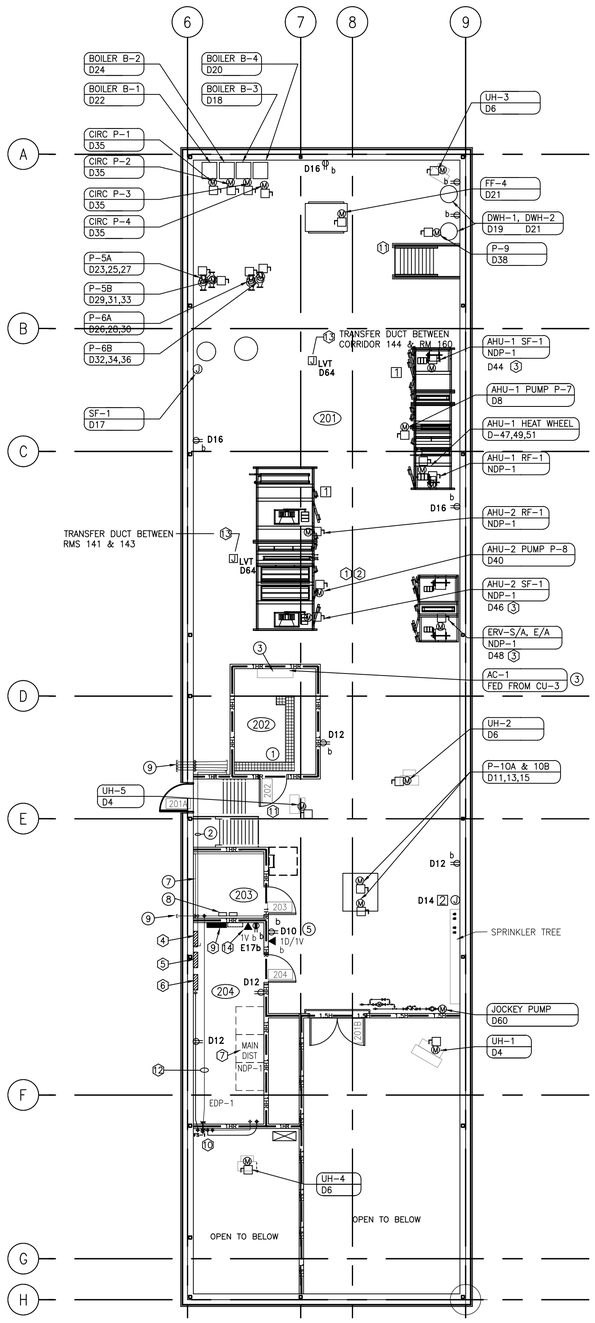

4 E4.1 — POWER & SYSTEMS PLAN
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SERVICE SPACE POWER & SYSTEMS NOTES:

1. PROVIDE A FIRE ALARM RELAY MODULE AND INTERCONNECT TO THE AIR HANDLING UNIT SUPPLY AND RETURN FAN VFD'S FOR SHUT DOWN OF THE AIR HANDLING UNIT UPON ACTIVATION OF THE FIRE ALARM SYSTEM.
2. PROVIDE A 120-VOLT CIRCUIT TO THE SPRINKLER SYSTEM WATER GONG.

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Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par
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Ressources Architectural et de Directeur d'ingénierie

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SERVICE SPACE & OUT BUILDING LIGHTING PLAN
POWER & SYSTEMS PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
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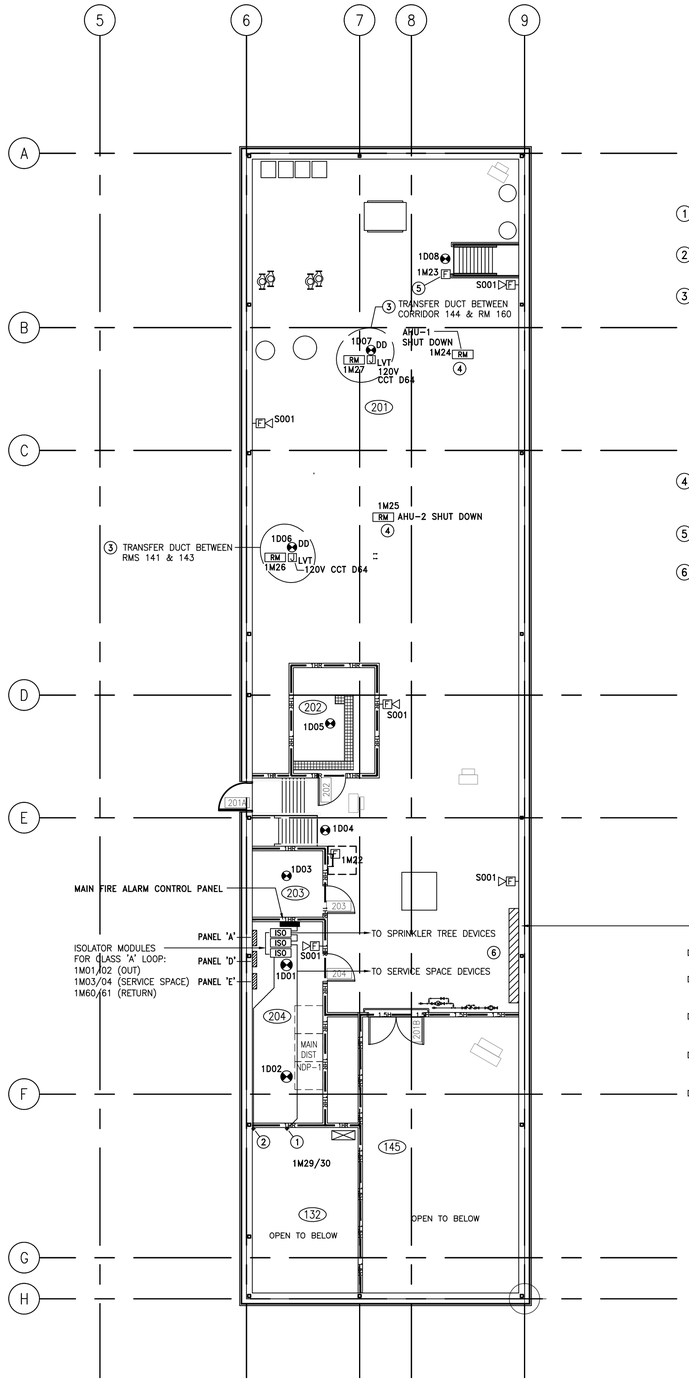

SERVICE SPACE FLOOR PLAN - FIRE ALARM

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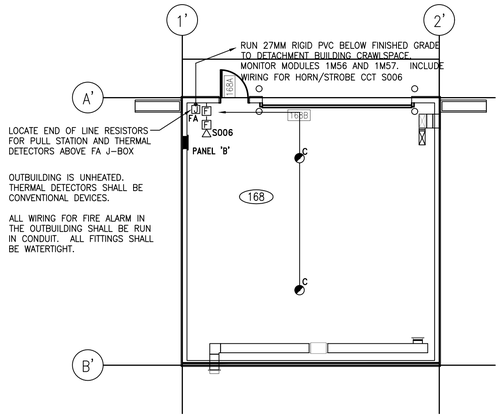
DRAWING NOTES:

1. CONDUIT RISER FOR CLASS 'A' LOOP DOWN TO ISOLATOR MODULE 1M29/30 IN STORAGE 132 FROM ISOLATOR MODULE 1M03/04.
2. CONDUIT RISER FOR CLASS 'A' LOOP FROM ISOLATOR MODULE 1M58/59 IN CRAWLSPACE TO ISOLATOR MODULE 1M60/61 IN ELECTRICAL ROOM.
3. COMBINATION SMOKE/FIRE DAMPER WITH FACTORY MOUNTED SMOKE DUCT DETECTOR AND 24-VOLT ACTUATOR (TWO-POSITION, FAIL CLOSE OPERATOR) SUPPLIED BY THE MECHANICAL DIVISION. THE ADDRESSABLE DUCT DETECTOR SHALL BE MONITORED BY THE FIRE ALARM SYSTEM, PROVIDE END-OF-LINE RESISTOR FOR CONNECTION TO THE DUCT DETECTOR SUPERVISORY CONTACTS. PROVIDE A 24-VOLT CIRCUIT TO THE FIRE DAMPER ACTUATOR VIA A 120/24 VOLT LOW VOLTAGE TRANSFORMER FED FROM FIRE DAMPER CIRCUIT D-64. THE 24-VOLT ACTUATOR CIRCUIT SHALL CONNECT THROUGH THE DUCT DETECTOR 24-VOLT AUXILIARY CONTACTS AND THROUGH A FIRE ALARM RELAY MODULE. ACTIVATION OF EITHER THE FIRE ALARM SYSTEM OR DUCT DETECTOR SHALL OPEN THE 24-VOLT ACTUATOR CIRCUIT AND RESULT IN THE CLOSING OF THE SMOKE/FIRE DAMPER.
4. PROVIDE FIRE ALARM RELAY MODULE AND INTERCONNECT TO AIR HANDLING UNIT SUPPLY AND RETURN FAN VFD's FOR SHUT-DOWN OF AIR HANDLING UNIT UPON ACTIVATION OF THE FIRE ALARM SYSTEM.
5. PROVIDE CHANNEL SUPPORTS ADJACENT THE STAIR HAND RAIL TO MOUNT THE PULL STATION.
6. PROVIDE 120-VOLT CIRCUIT FOR THE SPRINKLER SYSTEM WATER GONG. CONFIRM FINAL LOCATION OF THE WATER CONG WITH THE SPRINKLER CONTRACTOR. MAKE FINAL CONNECTION IN ACCORDANCE WITH THE SPRINKLER CONTRACTOR'S REQUIREMENTS.



OUT BUILDING - FIRE ALARM

2 / E4.2 — 1:100

SPRINKLER TREE FIRE ALARM NOTES:

- BACK FLOW TAMPER SWITCHES 1M04/1M05.
- MAIN SPRINKLER SHUT-OFF VALVE 1M010 & MAIN SPRINKLER FLOW VALVE 1M11.
- MAIN FLOOR ZONE CONTROL VALVE 1M12 & FLOW SWITCH 1M13.
- CELL AREA ZONE CONTROL VALVE 1M14 & FLOW SWITCH 1M15.
- SERVICE SPACE ZONE CONTROL VALVE 1M16 & FLOW SWITCH 1M17.
- MM SPRINKLER PRESSURE SWITCH 1M20.

CONFIRM LOCATION OF ALL SUPERVISED VALVES, FLOW SWITCHES PRIOR TO ROUGH-IN AND CONNECTION.

PROVIDE END-OF-LINE RESISTORS WHERE AND IF REQUIRED BY THE FIRE ALARM MANUFACTURER.

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Client/client

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par: **SBK**

Designed by/Concept par: **KAD / GTK**

Drawn by/Dessine par: **GTK**

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ **Ressources Architectural et de Directeur d'ingénierie**

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SERVICE SPACE & OUT BUILDING FIRE ALARM PLAN POWER & SYSTEMS PLAN

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017	E4.2	0

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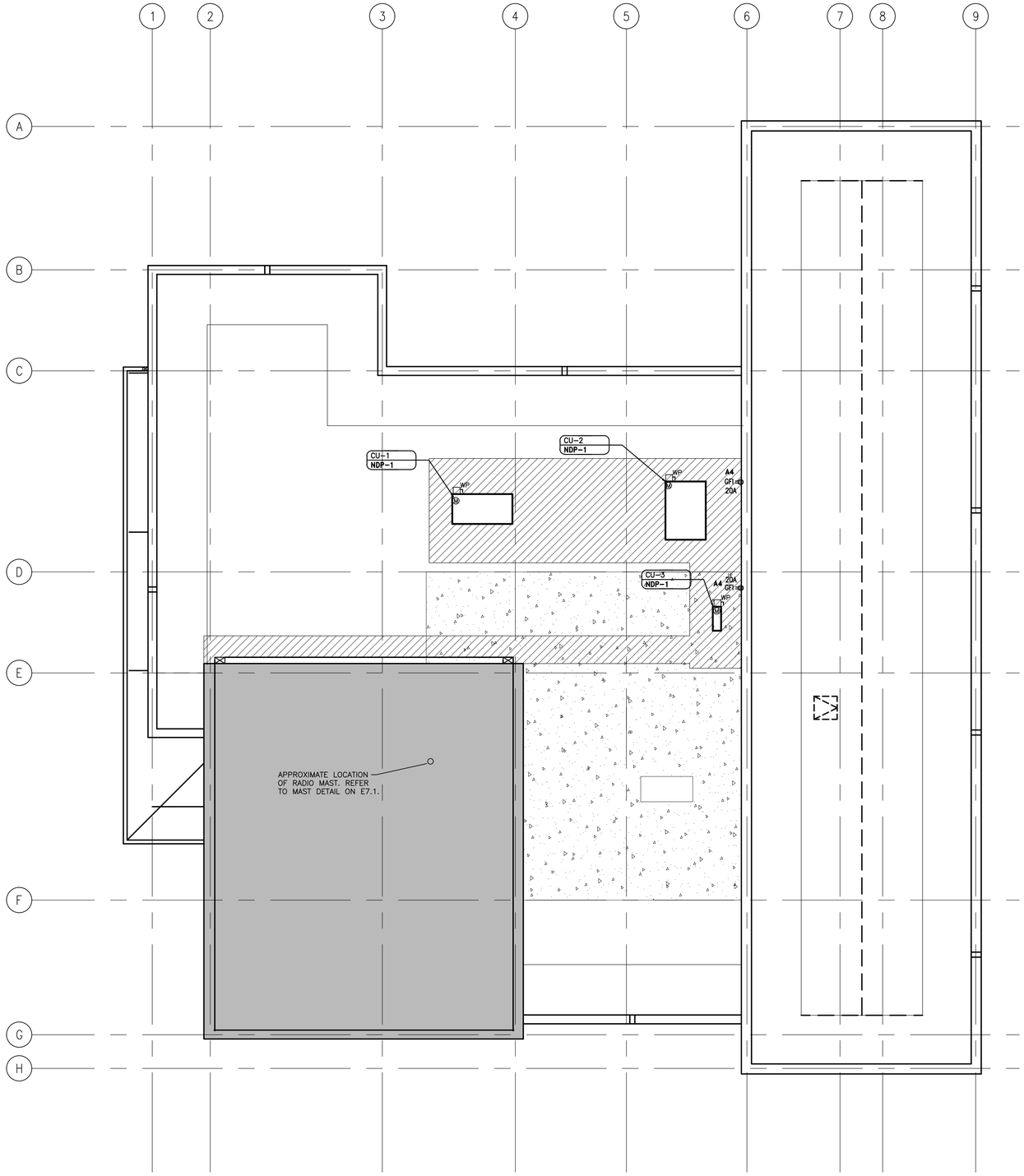

GENERAL NOTES:

1. PROVIDE A 5-20R GFIC RECEPTACLE COMPLETE A WEATHERPROOF WHILE-IN-USE COVER. MOUNTED UP 750mm ABOVE ROOF DECK.

1 / E5.1 ROOF PLAN
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DRAWING: E5.1

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ROOF PLAN
POWER & SYSTEMS PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
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GENERAL NOTES:

1. ENSURE THE MAIN DISTRIBUTION INCLUDING THE MAIN SERVICE BREAKERS ARE SERVICE ENTRANCE RATED AS PER ELECTRICAL CODE RULE. 2.024.

2. FOR DETAIL #3 ENSURE GROUNDING AND BONDING SHOWN FOR THE TRANSFER SWITCH SHALL COMPLY WITH CANADIAN ELECTRICAL CODE RULE 10-204(1)(C)

3. PROVIDE REQUIRED SECONDARY CABLE SLACK (APPROXIMATELY 4 METER) AS PER SASKPOWER SERVICE GUIDE, WITHIN CABLE VAULT.

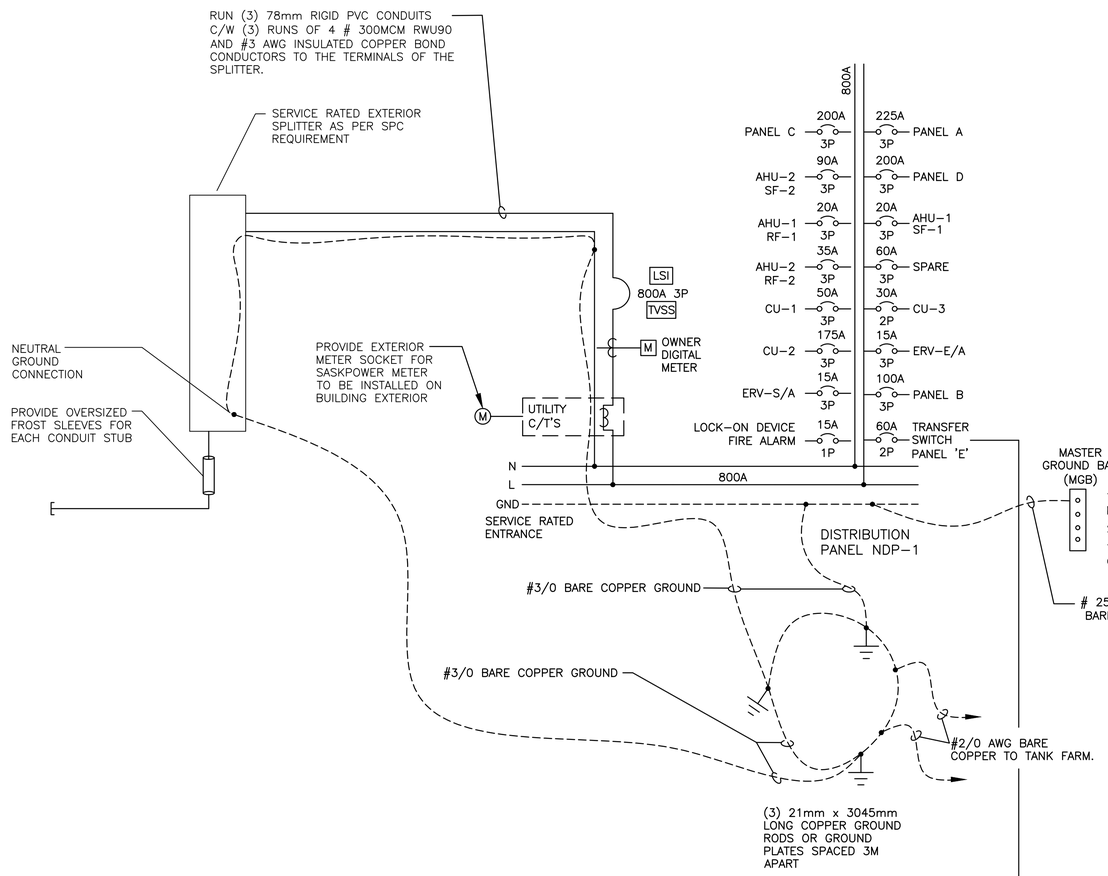
4. THE OWNER'S DIGITAL METER SHALL BE CAPABLE OF MEASURING AND DISPLAYING THE FOLLOWING:
   - VOLTAGE AND CURRENT FOR EACH PHASE AND NEUTRAL
   - CURRENT DEMAND--MAXIMUM PER PHASE & NEUTRAL
   - VOLTAGE, PER PHASE (L-L, L-N)
   - POWER, PER PHASE, 3-PH TOTAL (kW, kVA, kVAR)
   - POWER FACTOR, 3 PHASE TATAL
   - POWER DEMAND (kVARd, kWd) PRESENT & PEAK
   - kWh, kVARh, kVAh
   - MINIMUM/MAXIMU READING, I, V, F, PF, THD, HZ
   - THD, VOTLAGE AND CURRENT PER PHASE
   - VOLTAGE AND CURRENT MAGNITUDES AND ANGLES TO THE 63RD HARMONIC
   - CONFIGURABLE WAVEFORM DISTURBANCE SAG/SWELL DETECTION.

5. PROVIDE TVSS INTO THE MAIN SERVICE SWITCHBOARD. THE MAXIMUM SINGLE IMPULSE CURRENT RATING SHALL BE 120,000 AMPERES PER PHASE. THE SURGE PROTECTIVE DEVICE SHALL BE EQUIPPED WITH A TRANSIENT EVENT SURGE COUNTER SHALL BE LOCATED ON THE FRONT COVER OF THE PANELBOARD ENCLOSURE. THE COUNTER SHALL BE EQUIPPED WITH A MANUAL RESET AND A BATTERY TO RETAIN MEMORY UP ON LOSS OF AC POWER. THE UNIT SHALL BE FED WITH A CIRCUIT BREAKER THAT SHALL PERMIT DISCONNECTION OF THE DEVICE.

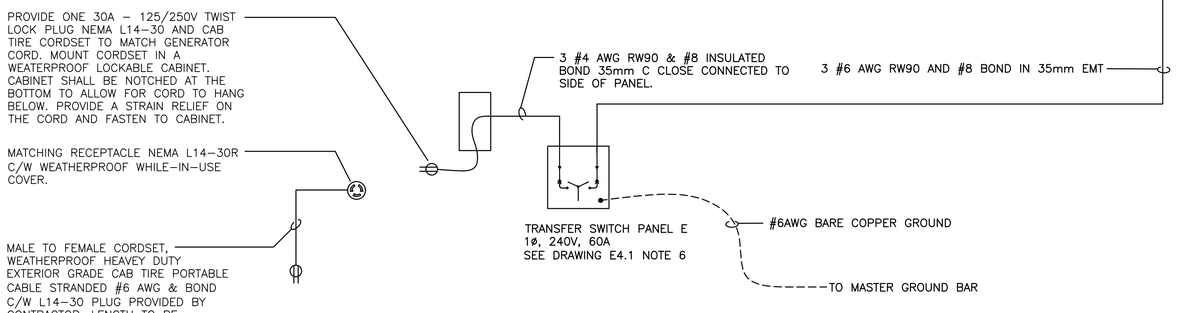
6. CONTRACTOR SHALL PROVIDE LOCK-ON DEVICE FOR FIRE ALARM BREAKER AND PAINT BREAKER RED.

7. SEE TABLE 2-1 IN SASKPOWER SERVICE REQUIREMENTS FOR WP SPLITTER, PVC AND FROST SLEEVES.

8. CONDUIT TO UTILITY METER SOCKET SHALL BE 1-1/4" IN DIAMETER PER SASKPOWER ELECTRIC SERVICE REQUIREMENTS.



2 / E6.1 MAIN SERVICE SINGLE LINE
120/208 VOLT - 3Ø - 4W, 800 AMP



3 / E6.1 EMERGENCY DISTRIBUTION SINGLE LINE
110/240 VOLT - 1Ø - 3W, 60 AMP

SEPW Architecture Inc.
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5		
4		
3		
2		
1		
0	ISSUED FOR SUBMISSION	2018.03.26

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Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

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SBK

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SINGLE LINE DRAWING

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	E6.1	0

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FILE NAME: 50573_E6.1_dist_.dwg
DRAWING: E6.1

PWGSC – A1 – 841X594

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MOTOR & EQUIPMENT SCHEDULE

Equip Cct #

Item	Description	kW	H.P.	Volt	ø	F.L.A.	M.C.A	Starter:	Size	Starter Location	Fuse	Brkr	Feeder	Panel	Notes
AC-1	AIR CONDITIONING UNIT - ROOM 202	2.65	-	208	1	-	1	-	-			15A-2P	2 #10 + #10 INS. BOND IN 21C.	-	SEE NOTE 1
	CONDENSATE PUMP - ROOM 202	-	-	120	1	-	-	-	-			15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 1
AHU-1	AIR HANDLING UNIT RF-1 - ROOM 201	2.238	3	208	3			VFD	-	201		20A-3P	3 #12 + #12 INS. BOND IN 21C.	NDP-1	PROVIDE STARTER
	AIR HANDLING UNIT SF-1 - ROOM 201	2.238	3	208	3			VFD	-	201		20A-3P	3 #12 + #12 INS. BOND IN 27C.	NDP-1	PROVIDE STARTER
	HEAT WHEEL MOTOR	0.373	1/2	208	3			VFD	-	201		15A-3P	3 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 4
AHU-2	AIR HANDLING UNIT RF-2 - ROOM 201	3.73	5	208	3			VFD	-	201		35A-3P	3 #8 + #10 INS. BOND IN 27C.	NDP-1	SEE NOTE 2, 3, 5 & 6
	AIR HANDLING UNIT SF-2 - ROOM 201	7.46	10	208	3			VFD	-	201		90A-3P	3 #4 + #8 INS. BOND IN 35C.	NDP-1	SEE NOTE 2, 3, 5 & 6
B-1 to B-4	BOILER UNITS - ROOM 201	-	-	120	1	-	-	-	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	DIRECT CONNECT
CU-1	CONDENSING UNIT - ROOF	-	-	208	3	37	41	F.V.N.R.	1	-		50A-3P	3 #8 + #10 INS. BOND IN 21C.	NDP-1	SINGLE POINT CONNECTION
CU-2	CONDENSING UNIT - ROOF	-	-	208	3	90	45	F.V.N.R.	1	-		110A-3P	3 #2/0 + #6 INS. BOND IN 53C.	NDP-1	SINGLE POINT CONNECTION
CU-3	CONDENSING UNIT - ROOF	-	-	208	1	-	18	F.V.N.R.	1	-		30A-2P	2 #8 + #10 INS. BOND IN 21C.	NDP-1	SEE NOTE 6
FF-1	FORCE FLOW HEATER - VESTIBULE 105	.19	1/4	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL C	SEE NOTE 6
FF-2	FORCE FLOW HEATER - VESTIBULE 101	.19	1/4	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL C	SEE NOTE 6
FF-3	FORCE FLOW HEATER - VESTIBULE 131	.19	1/4	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL A	SEE NOTE 6
FF-4	FORCE FLOW HEATER - ROOM 201	.19	1/4	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
DWH-1, DWH-2	WATER HEATER - ROOM 201	-	-	120	1	FR	-	-	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 7
EF-1	IS THIS OUT BUILDING 168	0.19	1/4	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 6
EF-2	ROOM 145	0.19	1/4	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL A	SEE NOTE 6
EF-3	ROOM 145	0.19	1/4	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL A	SEE NOTE 6
EF-4	ROOM 136	0.25	1/3	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL A	SEE NOTE 6
EF-5	ROOM 201	0.12	1/6	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
EF-6	ROOM 201	0.12	1/6	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
EF-7	ROOM 201	0.12	1/6	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
EF-8	ROOM 201	0.12	1/6	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
EF-9	ROOM 201	0.12	1/6	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
EF-10	ROOM 201	0.12	1/6	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
EF-11	ROOM 201	0.12	1/6	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
EF-12	ROOM 201	0.12	1/6	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
EF-13	ROOM 201	0.12	1/6	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
EF-14	ROOM 201	0.12	1/6	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
EF-15	ROOM 201	0.12	1/6	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
ERV-1 S/A E/A	ENERGY RECOVERY VENTILATOR - ROOM 201	1.49	2 ea.	208	3	5.5		VFD	-	-		15A-3P ea.	3 #12 + #12 INS. BOND IN 21C.	NDP-1	SEE NOTE 10
ER WHEEL	ENERGY RECOVERY ER WHEEL - ROOM 201	.373	1/2	230	1			VFD	-	-		15A-2P ea.	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 10
UH-1	UNIT HEATER ROOM 145	0.37	1/2	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
UH-2	UNIT HEATER ROOM 201	0.12	1/16	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
UH-3	UNIT HEATER - ROOM 201	0.12	1/16	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
UH-4, UH-5	UNIT HEATER - ROOM 132, ROOM 201	0.06	1/12	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
UH-6,7,8,9,10	CRAWLSPACE	0.12	1/6	120	1			TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
CO/NOX	GAS DETECTOR	-	-	120	1	-	-	-	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL A	DIRECT CONNECT
JP-1	SPRINKLER JOCKEY PUMP - ROOM 201	0.25	-	115	1		-			201		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	C/W AUTO AND MANUAL CONTROL
P-1	BOILER CIRC PUMP - ROOM 201	0.19	1/4	115	1							15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
P-2	BOILER CIRC PUMP - ROOM 201	0.19	1/4	115	1							15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
P-3	BOILER CIRC PUMP - ROOM 201	0.19	1/4	115	1							15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
P-4	BOILER CIRC PUMP - ROOM 201	0.19	1/4	115	1							15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
P-5A P-5B	MAIN HEATING PUMPS - ROOM 201	2.24	3	208	3	-	-	VFD	1	201		15A-3P	3 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 5 & 6
P-6A P-6B	LOW TEMP HEATING PUMPS - ROOM 201	2.24	3	208	3	-	-	VFD	1	201		15A-3P	3 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 5 & 6
P-7	AHU-1 COIL - ROOM 201	0.37	1/2	120	1			FVNR	1	201		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
P-8	AHU-2 COIL - ROOM 201	-	1/3	115	1			FVNR	1	201		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
P-9	DOMESTIC RECIRC PUMP - ROOM 201	-	1/6	115	1							15A-2P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 6
P-10A P-10B	DOMESTIC BOOSTER PUMP - ROOM 201	0.56	3/4 ea	208	3			VFD	1	201		15A-3P	3 #12 + #12 INS. BOND IN 21C.	PANEL D	SEE NOTE 5 & 6
SF-1	SYSTEM FILL PUMP ROOM 201	-	-	115	1	0.7	-	TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL D	-
	HOUSING UNITS														
DWH-3	WATER HEATER ROOM H105, H205 & H115, H215	-	-	120	1	FR.	-	-	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	HOUSING PANEL	PROVIDE RECEPTACLE ADJACENT TO UNIT
F-1	FURNACE ROOM H205 & H215 C/W CONDENSATE PUMP KIT EA.	.373	1/2	120	1	7.7	-	TH. SW.	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	HOUSING PANEL	PROVIDE SWITCH AND LABEL 'FURNACE'
EUH-1	UNIT HEATER CRAWLSPACE	4000	-	208	1	-	-	-	-	-		20A-2P	2 #12 + #12 INS. BOND IN 21C.	HOUSING PANEL	DIRECT CONNECT
HRV-1	HEAT RECOVERY VENTILATOR H205 & H215	.096	-	120	1	1.4	-	-	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	HOUSING PANEL	DIRECT CONNECT
RH-1	RANGE HOOD ROOM H204 & H215	-	-	120	1	1.7	-	-	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	HOUSING PANEL	DIRECT CONNECT
SP-1, 2, 3	SUMP PUMP CRAWLSPACE H002 - DETACHMENT CRAWLSPACE 001	-	1/3	115	1	-	-	-	-	-		15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL C	PROVIDE RECEPTACLE ADJACENT TO UNIT PUMP IS C/W CONTROL PANEL

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0	ISSUED FOR SUBMISSION	2018.03.26

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Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

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MOTOR EQUIPMENT SCHEDULE

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	E6.2	0

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MECHANICAL EQUIPMENT SCHEDULE NOTES

1. NEW AIR CONDITIONING UNIT AC-1 CONSISTS OF AN OUTDOOR UNIT (ROOF MOUNTED CONDENSER, CU-3) AND AN INDOOR UNIT. PROVIDE THE FOLLOWING FOR AIR CONDITIONING AC-1:

   PROVIDE AN ELECTRICAL CONNECTION TO THE NEW OUTDOOR CONDENSING UNIT ON THE ROOF. INSTALL A NON-FUSED WEATHERPROOF DISCONNECT SWITCH AT THE CONDENSING UNIT.

   PROVIDE CONNECTION TO THE NEW INDOOR UNIT WITHIN ROOM 202. INDOOR UNIT IS RATED AT 208 VOLT, SINGLE PHASE, 1.0 MINIMUM CIRCUIT AMPS. INDOOR UNIT POWER IS SUPPLIED FROM THE OUTDOOR CONDENSING UNIT, WITH INTERNAL PROTECTION PROVIDED IN THE CONDENSING UNIT. RUN 2 #10 RW90 + #10 INSULATED BOND IN 21MM CONDUIT FROM OUTDOOR UNIT TO INDOOR UNIT, AND COMPLETE THE POWER TERMINATIONS. OUTDOOR AND INDOOR UNIT HAVE POLARITIES - ENSURE INSTALLATION/CONNECTIONS ARE MADE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

   PROVIDE A SEPARATE 120 VOLT 1ø CONNECTION WITH 1A IN LINE FUSE TO CONDENSATE PUMP LOCATED IN ROOM 202.

2. THE AIR HANDLING UNIT ENCLOSURE IS SUPPLIED WITH LIGHTING AND RECEPTACLES THAT WILL REQUIRE FINAL CONNECTIONS BY THE ELECTRICAL CONTRACTOR. ALL LIGHT FIXTURES, LIGHT SWITCHES AND RECEPTACLES ARE SUPPLIED, INSTALLED AND PRE-WIRED BY THE AHU MANUFACTURER. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A 120V CIRCUIT CONNECTIONS TO THE LIGHTING AND RECEPTACLES MOUNTED ON THE AHU ENCLOSURE.

3. THE AHU IS SUPPLIED ALL WIRING WITHIN THE AHU ENCLOSURE PREWIRED BY THE MANUFACTURER. PROVIDE A DISCONNECT SWITCH AND PROVIDE FINAL WIRING TO THE VFD AND WIRING AND CONNECTION FROM VFD TO MOTOR.

4. THE HEAT RECOVERY WHEEL IS SUPPLIED C/W PACKAGED VFD THAT IS MOUNTED ON THE AHU ENCLOSURE. PROVIDE FINAL CONNECTIONS AT THE VFD. ALL WIRING WITHIN THE AHU ENCLOSURE IS PREWIRED BY THE MANUFACTURER. PROVIDE FINAL WIRING CONNECTION FROM VFD TO MOTOR.

5. VFD IS INTEGRAL AND SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING TO THE UNIT AND FROM THE VFD TO THE EQUIPMENT MOTOR FINAL CONNECTION.

6. MECHANICAL EQUIPMENT SHALL BE CONTROLLED BY EMCS REFER TO MECHANICAL FLOOR PLANS FOR SWITCH LOCATIONS.

7. PROVIDE DUPLEX RECEPTACLES ADJACENT TO UNIT MOUNTED UP 900mm.

8. SOFT START SOFT STOP FIRE PUMP CONTROLLER HORSE POWER TO MATCH FIRE PUMP. COORDINATE WITH MECHANICAL.

9. RUN 3 CONDUCTOR 3 #6 AWG MINERAL INSULATED CABLE OR 'VITALINK MC' 2-HOUR RATED POWER CABLE.

10. THE ERV UNIT IS SUPPLIED WITH PACKAGED VFD CONTROLLED BY DDC. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING TO THE UNIT AND FROM THE VFD TO THE EQUIPMENT MOTOR FINAL CONNECTION.

MECHANICAL EQUIPMENT GENERAL NOTES

1. ALL EQUIPMENT CONTROLLED BY THE BUILDING DDC OR EMCS SHALL HAVE ALL LOW VOLTAGE CONTROL WIRING SUPPLIED AND INSTALLED BY THE MECHANICAL CONTROLS CONTRACTOR.

2. ALL CONTROL WIRING SHALL BE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTROLS CONTRACTOR.

3. VAV UNITS ARE SUPPLIED C/W SPEED CONTROL, INTEGRAL DISCONNECT. ELECTRICAL CONTRACTOR SHALL PROVIDE (15) 15 AMP 120 VOLT CIRCUITS LOCATED IN THE CEILING SPACE FOR VAV UNITS.

4. PROVIDE LOCAL DISCONNECT SWITCHES AS INDICATED ON THE PLANS.

NOTE: CONDUCTOR/CONDUIT SIZES SHOWN IN THE EQUIPMENT SCHEDULE ARE MINIMUM SIZES. FEEDERS SHALL BE ADJUSTED ACCORDINGLY TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%.

ABBREVIATION LEGEND

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

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■ website: www.sepw.ca

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MOTOR EQUIPMENT SCHEDULE NOTES

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	E6.3	0

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PWGSC - A1 - 841X594

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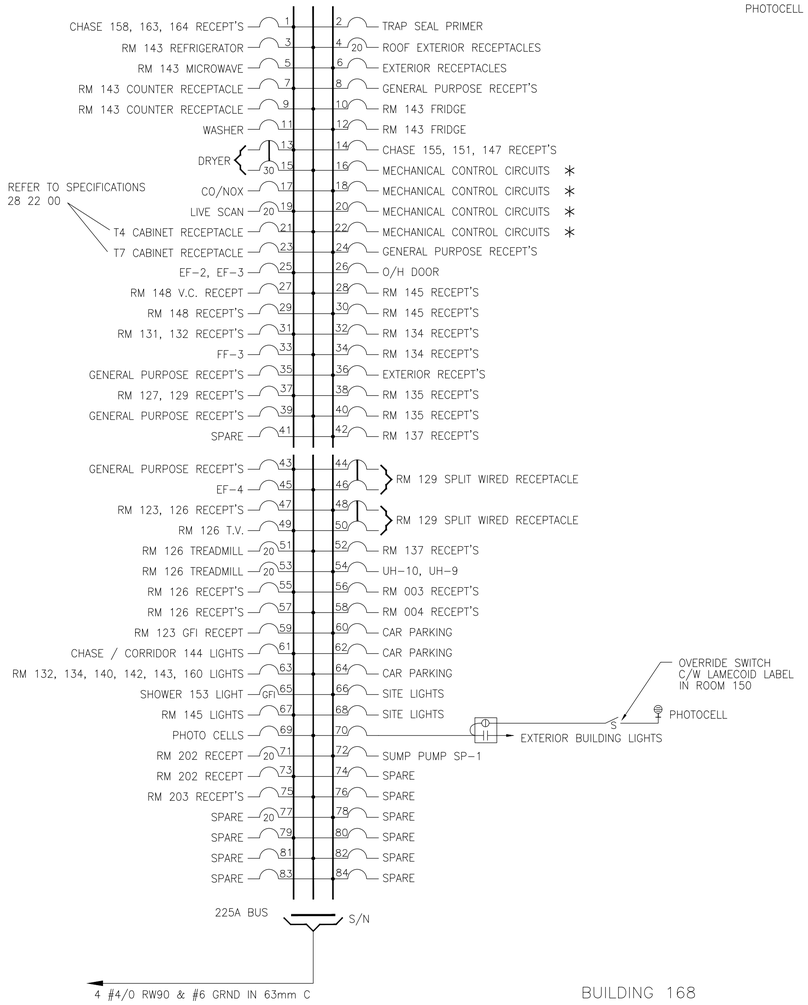
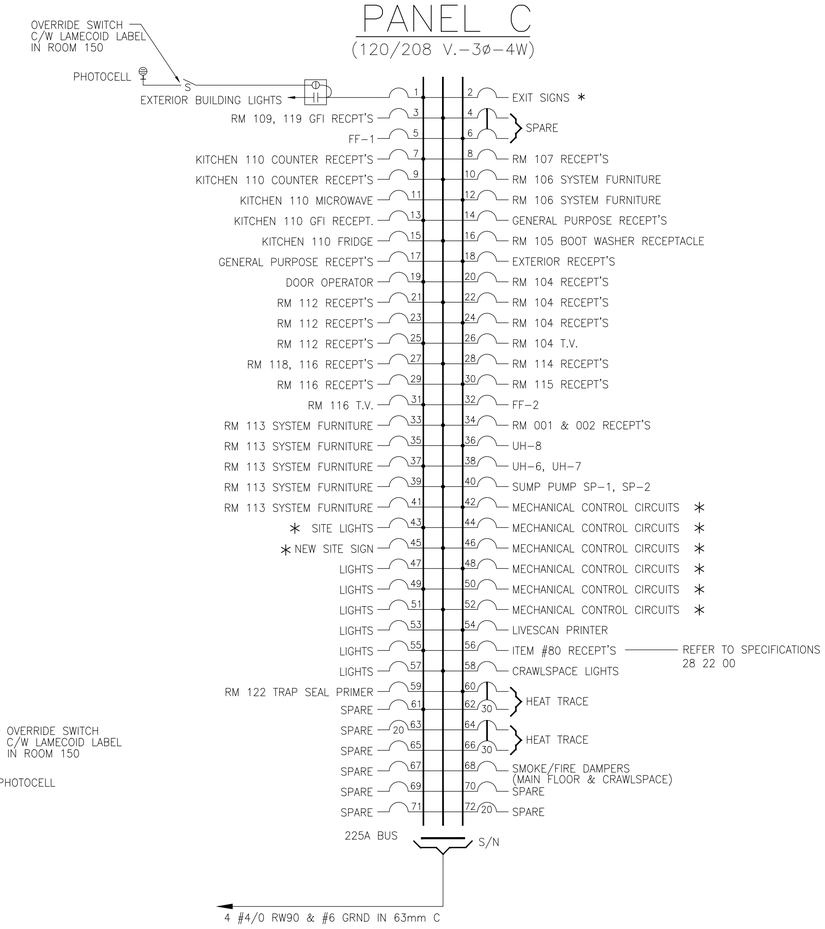
ROOM 204

PANEL A
(120/208 V.–3ø–4W)



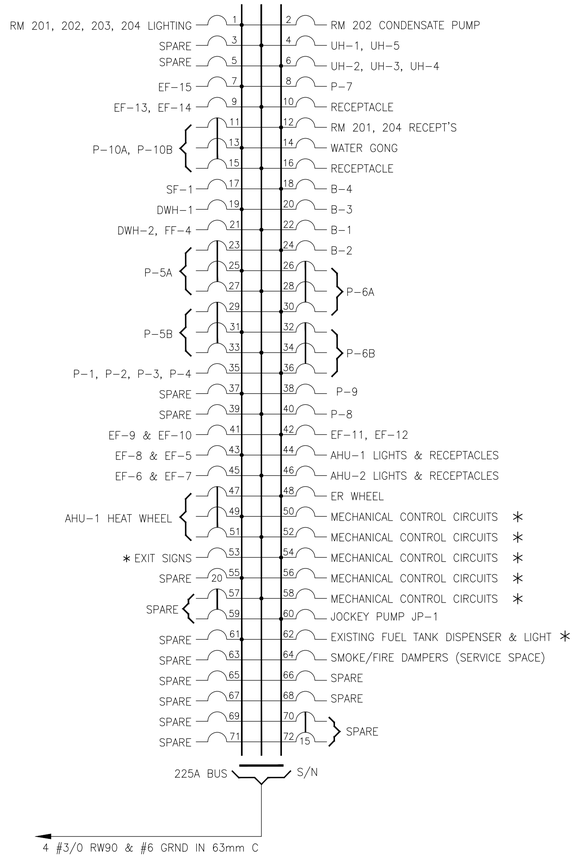
CORR. 111

PANEL C
(120/208 V.–3ø–4W)



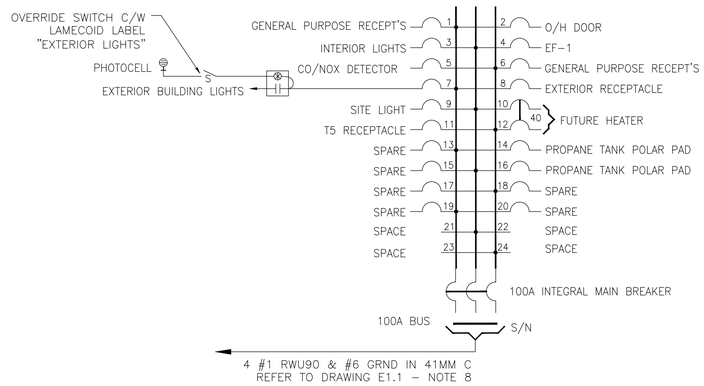
RM 204

PANEL D
(120/208 V.–3ø–4W)



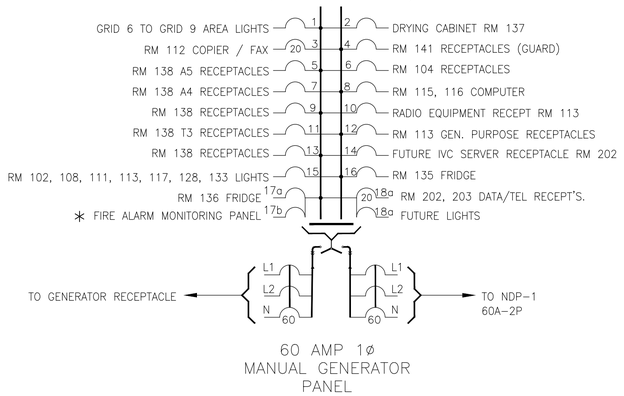
BUILDING 168

PANEL B
(120/208 V.–3ø–4W)



TRANSFER SWITCH PANEL
RM 204 EMERGENCY

PANEL E
(110/240 V.–1ø–3W)



EMERGENCY GENERATOR PANEL 'E'– TRANSFER SWITCH:

- 60 AMP 3–POLE UTILITY/GENERATOR CIRCUIT BREAKERS SWITCH BOTH LINE AND NEUTRAL CONDUCTORS IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE.
- ACCEPTS UP TO 18 STANDARD BREAKERS OR 36 TANDEM BREAKERS.
- QWIK–OPEN 'VISI–TRIP BRANCH CIRCUIT BREAKERS.
- UTILITY BREAKERS AND GENERATOR BREAKERS ARE MECHANICALLY INTERLOCKED TO ENSURE ONLY ONE POWER SOURCE IS AVAILABLE.
- PANEL IS DESIGNED FOR USE WITH BONDED OR UN–BONDED GENERATORS.
- ALL GENERATOR PANEL COMPONENTS SHALL BE FACTORY INSTALLED.
- 10,000 AIC RATING, 125 AMP BUS RATING.
- TRANSFER PANEL SHALL BE SUPPLIED WITH NEUTRAL AND GROUND.
- ENCLOSURE RATING EEMAC1
- PANEL SHALL BE CSA APPROVED.

MANUFACTURER:
EATON #CPL130G6 SERIES
SCHNEIDER #QOGP3P6036 SERIES
OR APPROVED EQUAL.

* INDICATES BREAKER C/W LOCK ON DEVICE

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PROFESSIONAL ENGINEER SASKATCHEWAN
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MEMBER 9273
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5		
4		
3		
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1		
0	ISSUED FOR TENDER	19/02/15

Client/client

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par
SBK

Designed by/Concept par
KAD / GTK

Drawn by/Dessine par
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Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

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Drawing title/Titre du dessin

PANEL SCHEMATICS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	E6.4	0

DRAWING PLOTTED: AUG 19/2015 - 12:00
FILE NAME: 50573_E6.4_panl_.dwg
DRAWING: E6.4

PWGSC – A1 – 841X594

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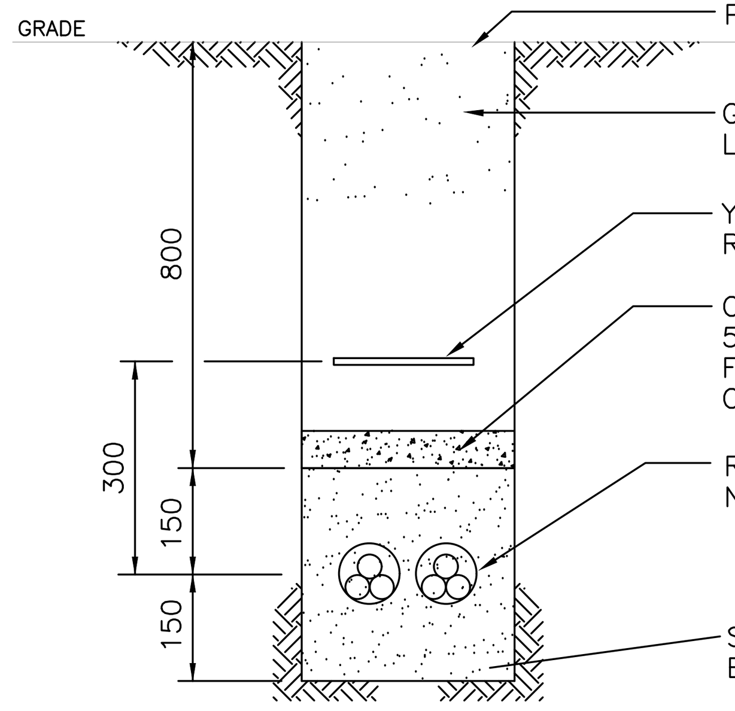
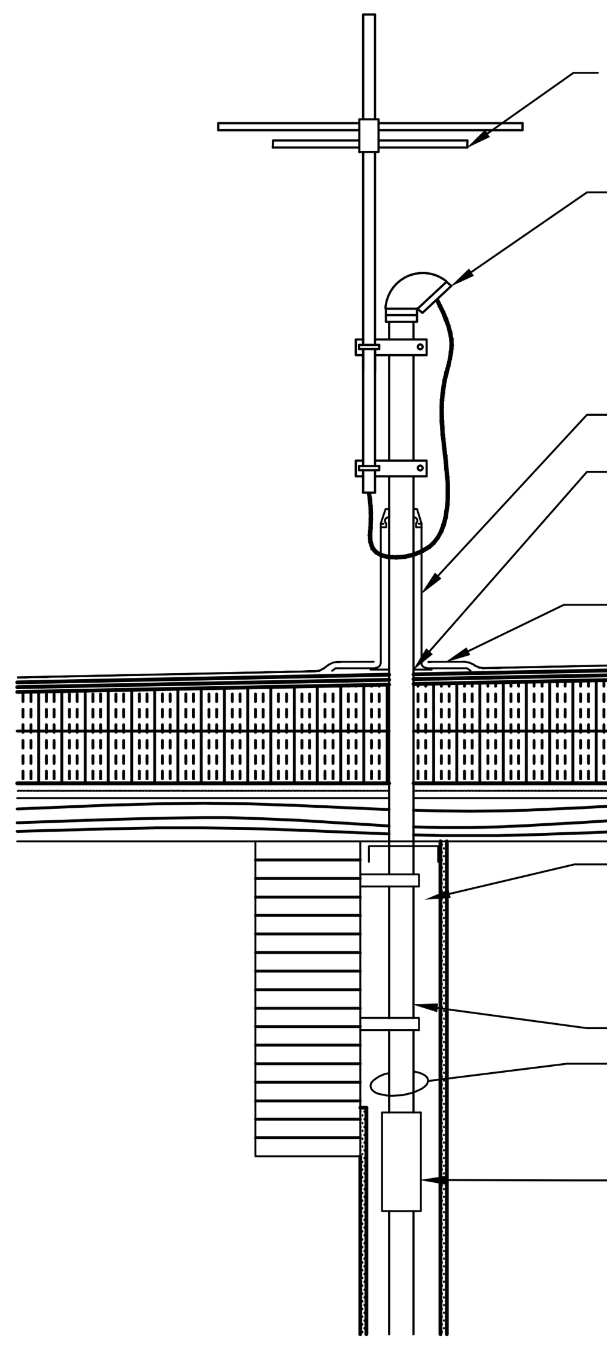


CABLE LAYOUT DETAIL FOR DIRECT BURIED SERVICE CONDUCTORS AND CABLES IN CONDUITS SHALL COMPLY WITH THE CANADIAN ELECTRICAL APPLICABLE CODE DIAGRAMS B4-1 THROUGH B4-4.

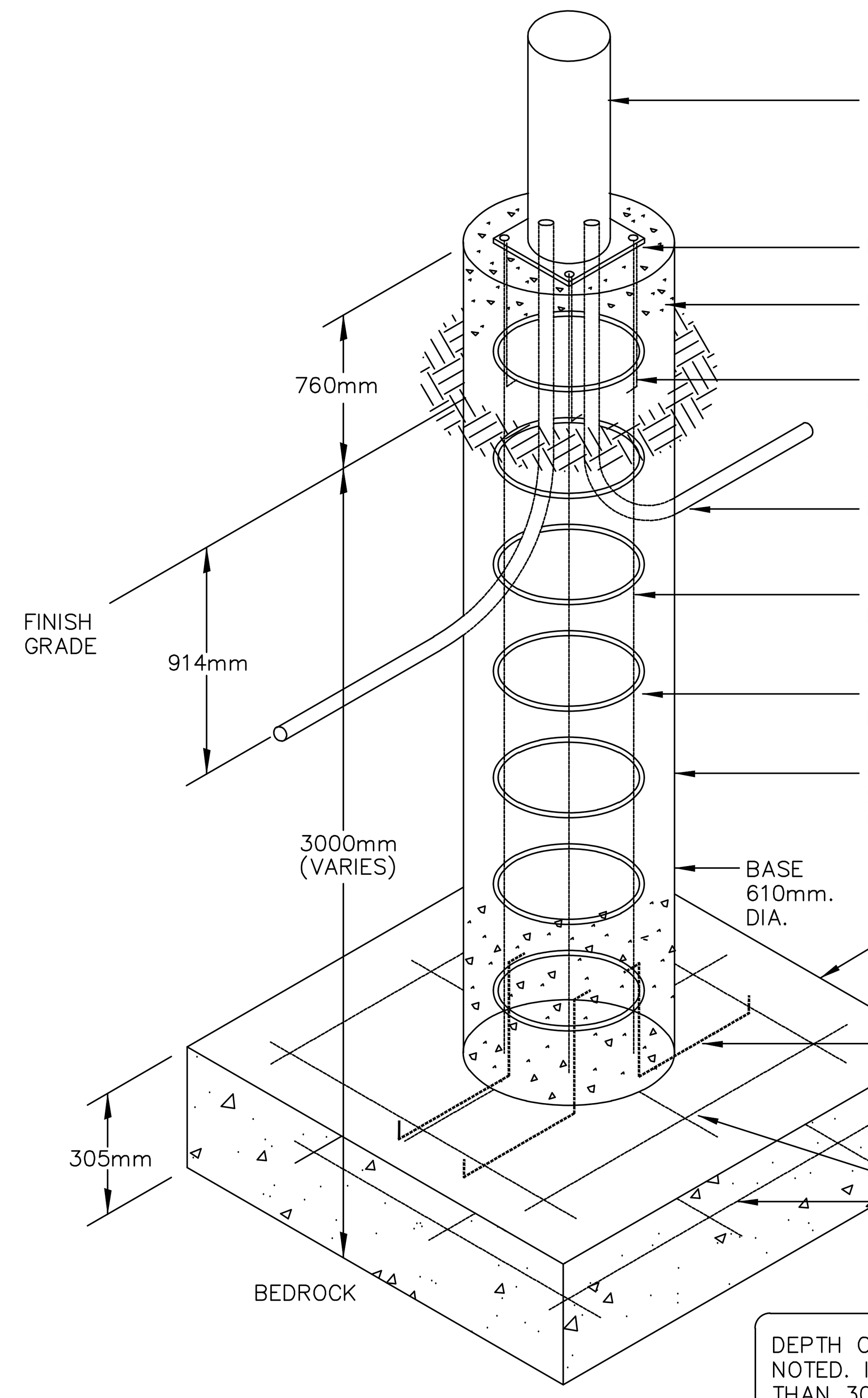
GENERAL NOTES:

1. TRENCH DETAIL FOR DIRECT BURIED SERVICE CONDUCTOR SHALL COMPLY WITH CANADIAN ELECTRICAL CODE DIAGRAM B4-3 PER RULE 4-004 (1)(d). IF SPACING IS NOT ACCORDANCE WITH DIAGRAM B4-3, IEEE835 IS REQUIRED TO CONFIRM THE CABLE CAPACITY AS STATED IN RULE 4-004(1)(e).
2. CONTRACTOR SHALL PROVIDE TRENCH AND BACKFILL FROM SASKPOWER TRANSFORMER TO THE EXTERIOR SPLITTER ON THE BUILDING. COORDINATE WITH SASKPOWER SERVICE DOCUMENTS AND SERVICE INSTALLATION REQUIREMENTS.

1 E7.1 SECONDARY CONDUCTOR TRENCH DETAIL
N.T.S.



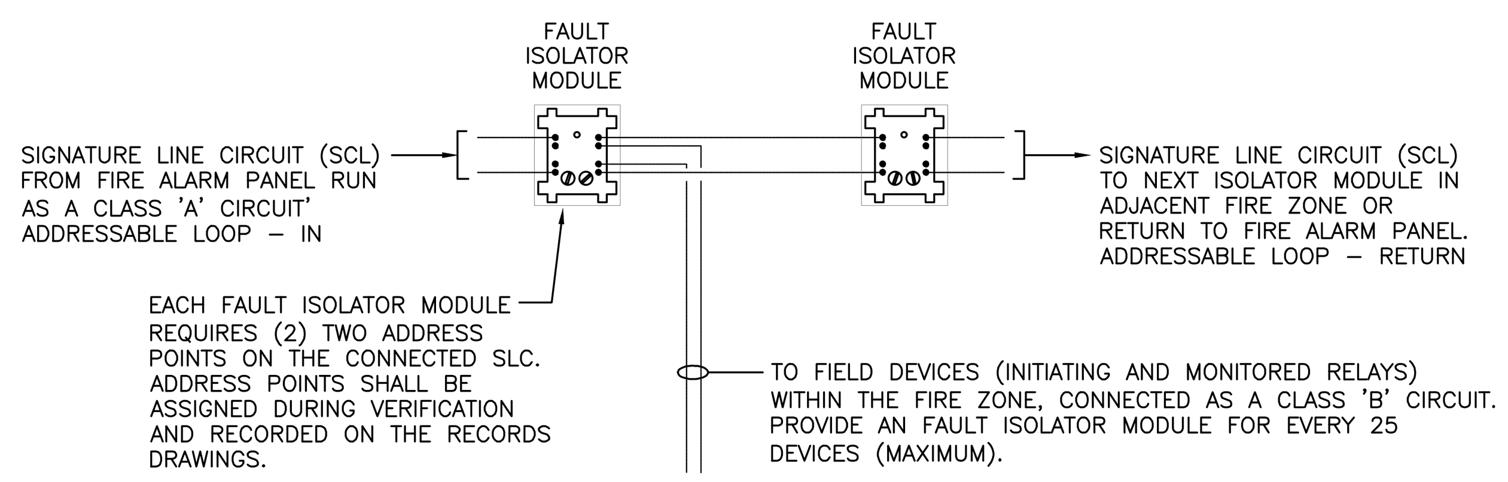
2 E7.1 BASE ANTENNA MOUNTING DETAIL
N.T.S.



DEPTH OF CONCRETE BASES SHALL BE AS NOTED. IF DEPTH TO BEDROCK IS LESS THAN 3000, NOTIFY CONSULTANT.

PL1 LIGHT POLE, BASE AND SINGLE LUMINAIRE SHOWN THUS.

3 E7.1 SITE LIGHTING POST & BASE DETAIL
N.T.S.



4 E7.1 FIRE ALARM FAULT ISOLATOR MODULES
N.T.S.

FIRE ALARM TAGGING SYSTEM

THE CONTRACTOR SHALL RECORD ON THE AS-BUILT MARK-UP PRINTS THE FINAL ADDRESS TAGGING FOR EACH ADDRESSABLE FIRE ALARM DEVICE. ADDRESS TAGGING SHALL MATCH THE FIRE ALARM VERIFICATION REPORTS PROVIDED BY THE FIRE ALARM MANUFACTURER.

ALL FIELD DEVICES INCLUDING MANUAL PULL STATIONS, DETECTORS, FIRE MODULES SHALL BE EXTERNALLY LABELLED SHOWING THE ADDRESS AND DEVICE CONTROLLED AND MONITORED. APPLY A SELF-ADHESIVE IDENTIFICATION LABEL TO THE DEVICE; 12MM WHITE LAMINATED MARKER TAPE WITH BLACK TYPED LETTERING.

THE FOLLOWING TAGGING SYSTEM SHALL BE UTILIZED TO IDENTIFY ADDRESSABLE DEVICES AND SYSTEMS THROUGHOUT:

1-D63
1-M26

INTELLIGENT SIGNALING LINE CIRCUIT
SLC LOOP #1:
ADDRESSABLE FAULT-TOLERANT LOOP

DEVICE TYPE
D – DETECTORS: SMOKE DETECTORS, HEAT DETECTORS
HEAT SENSORS
M – BREAKGLASS STATIONS
SPRINKLER TAMPER
SPRINKLER FLOW
FIRE MODULES – MONITOR, RELAY, ISOLATORS

POINT NUMBER

TAGGING FOR HORN/STROBES AND OTHER AUXILIARY DEVICES POWERED BY THE FIRE ALARM SYSTEM:

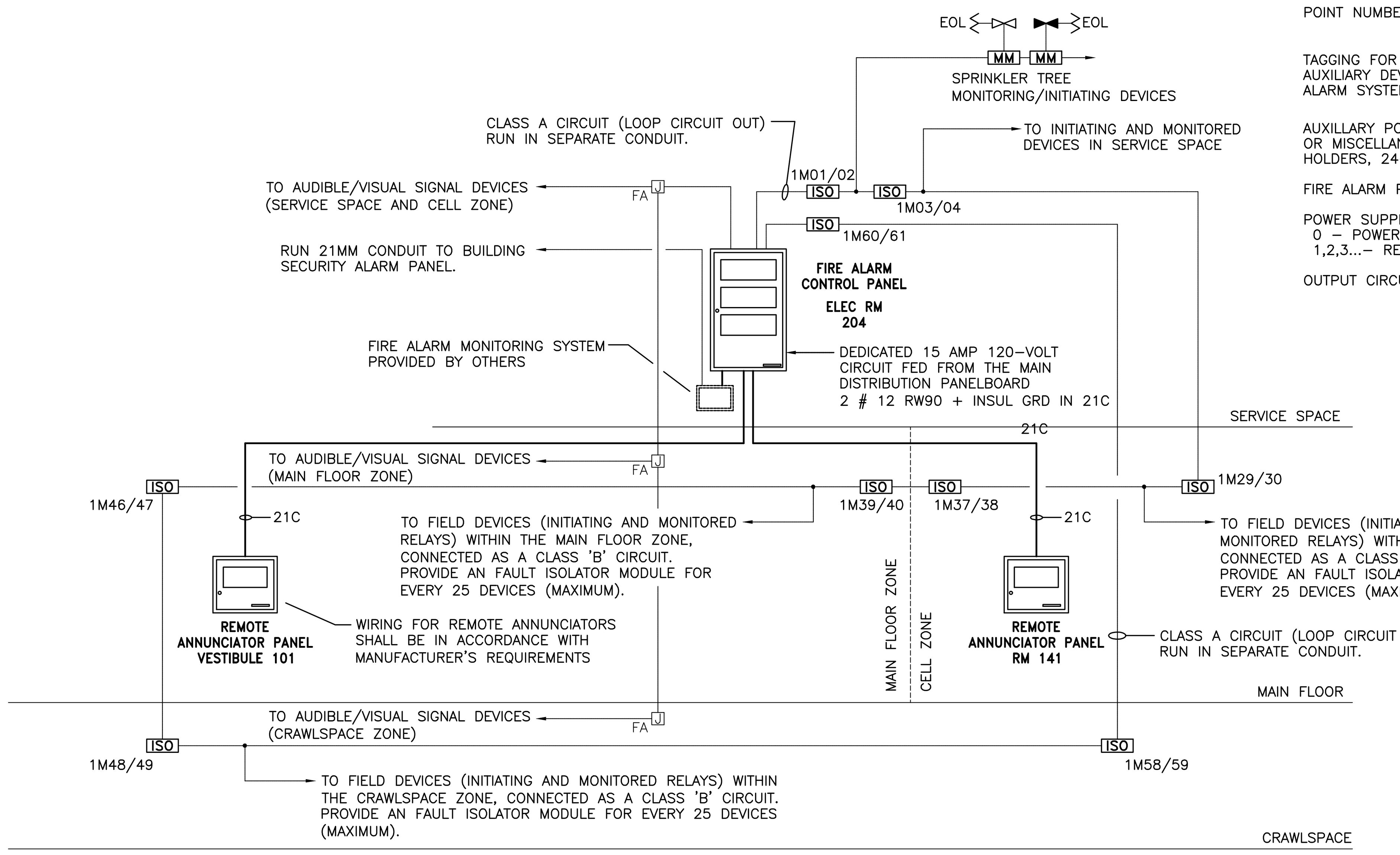
S104

AUXILIARY POWER SUPPLY FOR STROBE LIGHTS OR MISCELLANEOUS ITEMS (24-VOLT DOOR HOLDERS, 24-VOLT SPRINKLER SOLENOID VALVES)

FIRE ALARM PANEL NUMBER AS NOTED ABOVE

POWER SUPPLY NUMBER
0 – POWER SUPPLY LOCATED WITHIN FIRE ALARM PANEL
1,2,3...– REMOTE POWER BOOSTER PANEL NUMBER

OUTPUT CIRCUIT NUMBER



5 E7.1 FIRE ALARM RISER DIAGRAM
N.T.S.

FIRE ALARM CONTROL PANEL (FACP) FUNCTIONAL MATRIX

	ANNUNCIATION AT PANEL			NOTIFICATION								AUXILIARY FUNCTION	
ALARM CONDITIONS	AUDIO-VISUAL FIRE ALARM INDICATION BY DEVICE	AUDIO-VISUAL TROUBLE INDICATION BY DEVICE	AUDIO-VISUAL SUPERVISORY INDICATION BY DEVICE	FIRE ALARM SIGNAL TO FIRE DEPARTMENT VIA MONITORING SERVICE	COMMON TROUBLE SIGNAL VIA MONITORING SERVICE	COMMON SUPERVISORY CONDITION VIA MONITORING SERVICE	FIRE ALARM AUDIBLE NOTIFICATION NEW POLICE BUILDING ONLY	FIRE ALARM VISUAL NOTIFICATION NEW POLICE BUILDING ONLY	FIRE ALARM AUDIBLE NOTIFICATION OUT BUILDING ONLY	FIRE ALARM VISUAL NOTIFICATION OUT BUILDING ONLY	FIRE ALARM ELECTRIC CHIME NOTIFICATION – POLICE BUILDING	SHUT-DOWN AIR HANDLING UNITS AHU-1 AND AHU-2	SMOKE/FIRE DAMPER ACTUATORS CLOSE
MANUAL PULL STATIONS – NEW POLICE BUILDING	X	X		X			X	X				X	X
MULTI-SENSOR SMOKE DETECTORS – NEW POLICE BUILDING	X	X		X			X	X				X	X
IN-DUCT SMOKE DETECTORS – NEW POLICE BUILDING		X											X
THERMAL DETECTORS – NEW POLICE BUILDING	X	X		X			X	X				X	X
SPRINKLER SYSTEM – WATER FLOW – NEW POLICE BUILDING	X	X		X			X	X				X	X
FIRE PUMP RUNNING – NEW POLICE BUILDING	X	X		X			X	X				X	X
MANUAL PULL STATION – OUT BUILDING	X	X		X					X	X	X		
THERMAL DETECTORS – OUT BUILDING	X	X		X					X	X	X		
TROUBLE CONDITIONS													
AC POWER FAILURE		X			X								
LOW BATTERY		X			X								
OPEN CIRCUIT FAULT		X			X								
GROUND FAULT		X			X								
NOTIFICATION APPLIANCE CIRCUIT SHORT		X			X								
COMPONENT COMMON TROUBLE		X			X								
SUPERVISORY CONDITIONS													
DEACTIVATION FOR MAINTENANCE			X			X							
COMPONENT COMMON SUPERVISORY			X			X							
SPRINKLER SYSTEM – CONTROL VALVES, TAMPER SWITCHES		X				X							
FIRE PUMP FAILURE/PHASE REVERSAL		X				X							

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PROFESSIONAL ENGINEER S.B. KEMP MEMBER 9273 19 02 15 YR. MN. DAY PROVINCE OF SASKATCHEWAN

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Revision/Révision	Description/Description	Date/Date
5		
4		
3		
2		
1		
0	99% SUBMISSION	2018.03.26

Client/client

Project title/Titre du projet
NEW POLICE BUILDING
PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuvé par
SBK
Designed by/Concept par
KAD / GTK
Drawn by/Dessiné par
GTK
Project Manager/Administrateur de Projets
Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie
Client/client
Drawing title/Titre du dessin
ELECTRICAL DETAILS

Project No./No. du projet: R-10-2017
Sheet/Feuille: E7.1
Revision no./La Révision no.: 0

DRAWING PLOTTED: JAN 01, 1980 - 12:00
FILE NAME: 50373_E7.1_detl..dwg
DRAWING: E7.1

PWGSC – A1 – 841X594

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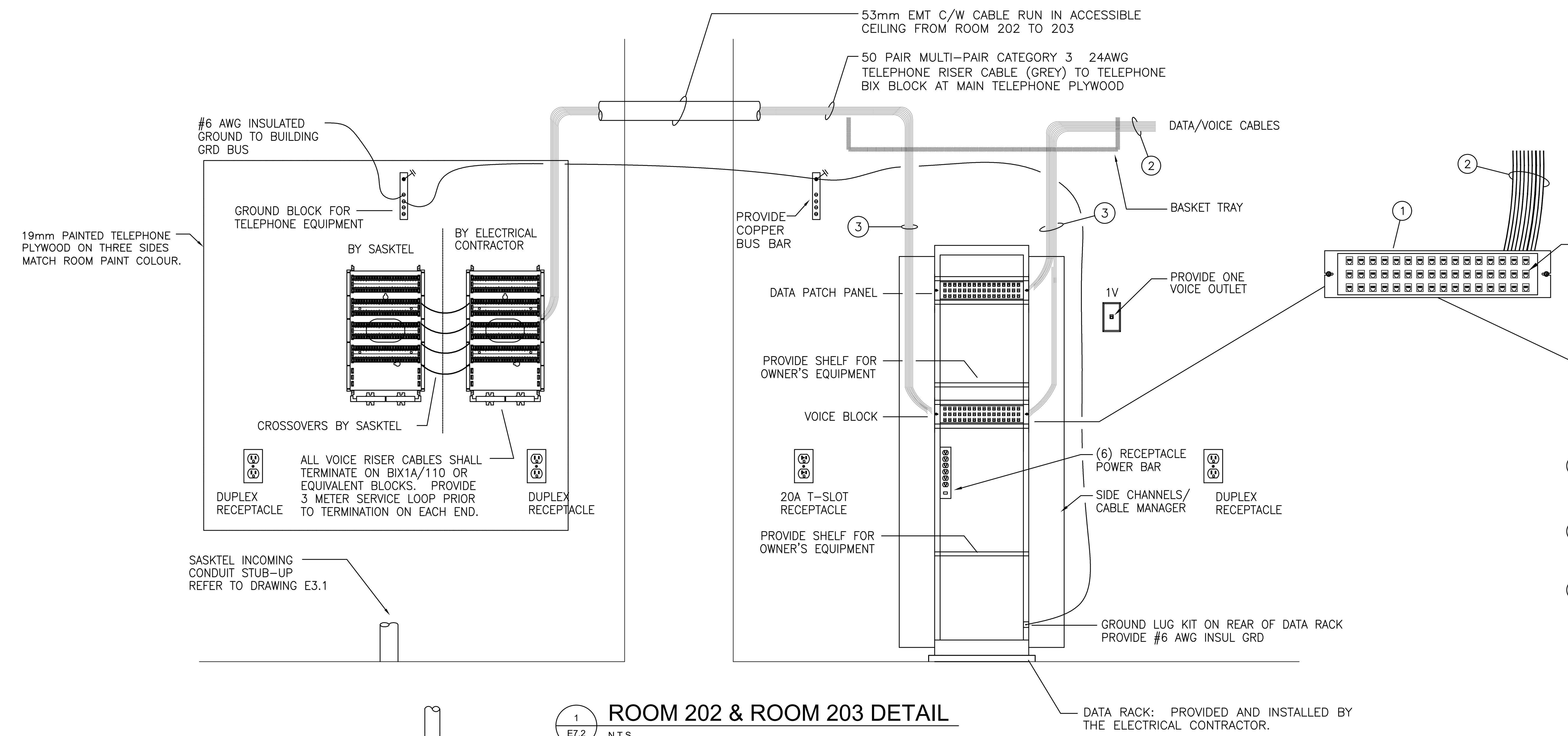


CATEGORY 6A EIGHT PIN JACKS FOR ALL DATA CABLES. QUANTITY SHOWN IN THIS DETAIL FOR ILLUSTRATION ONLY. EXACT QUANTITY SHALL REFLECT THE QUANTITY NEEDED TO TERMINATE ALL DATA CABLES DETERMINATED ON THE FLOOR PLANS. REMAINDER TO BE BLANK/SPARE.

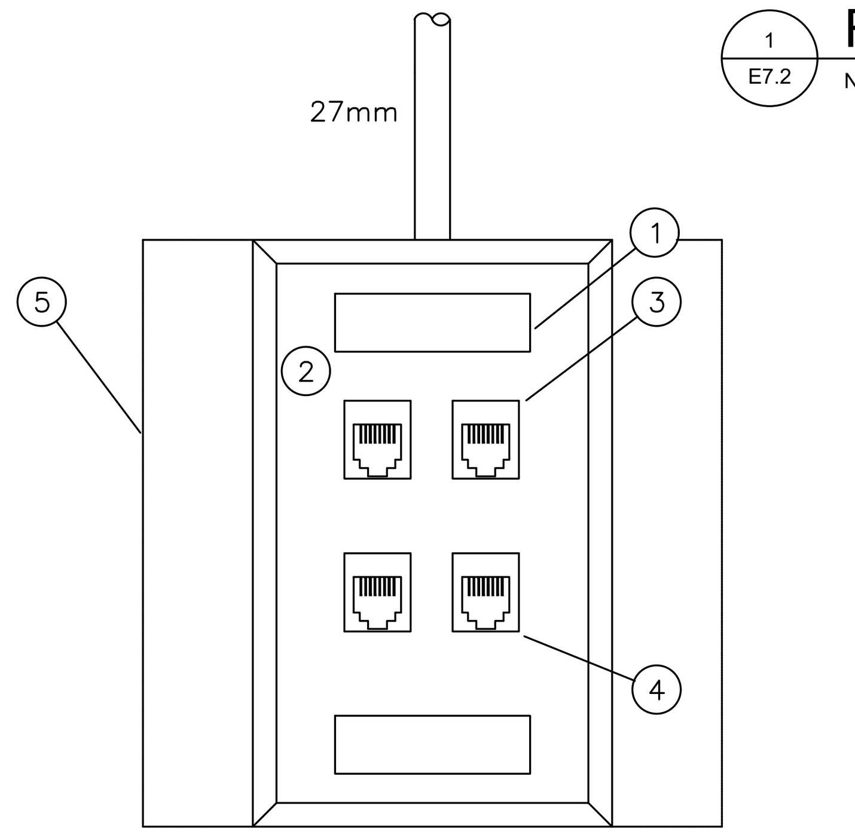
NUMBER OF PORTS AND PATCH PANELS AS REQUIRED. PATCH PANEL SHALL EXCEPT SAME INSERTS AS WALL PLATE OUTLET JACK INSERTS, REFER TO SPECIFICATIONS. THE INITIAL DATA PATCH PANEL SHALL BE MOUNTED JUST BELOW THE FIBRE TERMINATION TRAY NEAR THE TOP OF DATA EQUIPMENT RACK AS SHOWN WITH THE REMAINDER OF THE PATCH PANELS MOUNTED BELOW.

(1) TYPICAL DATA CABLE SUPPORT BRACKETS MOUNTED IN REAR OF EACH DATA PATCH PANEL. CABLES SHALL BE STRAPPED TO THE SUPPORT BRACKETS TO REDUCE STRAIN ON THE INCOMING CABLES.

(2) FIELD OUTLET CABLES TO DATA/VOICE WALL OUTLETS AND WORKSTATIONS. ALL DATA/VOICE CABLES SHALL BE CATEGORY 6A (4 PAIR # 24 AWG FT6 RATED UTP.)

(3) RUN DATA/VOICE CABLE WITHIN A SLOTTED DUCT CABLE MANAGEMENT SYSTEM EQUIPPED WITH REMOVABLE COVER.

1/E7.2 ROOM 202 & ROOM 203 DETAIL
N.T.S.



ITEM	DESCRIPTION	COLOUR
(1)	INTEGRATED LABEL	–
(2)	FACEPLATE	WHITE
(3)	RJ45 JACK (8 PIN) (CATEGORY 6A)	WHITE
(4)	RJ45 DATA JACK CATEGORY 6A	WHITE
(5)	100 x 100mm JUNCTION BOX WITH SINGLE GANG EXTENSION RING	
[ ]	BLANK PLUG	WHITE

Note:
From each data jack run one 4 pair #23 AWG UTP Category 6A loose through ceiling to tray, through tray to patch panel.

From each telephone jack run one 4 pair #23 AWG UTP Category 6A loose through ceiling to tray, through tray to patch panel.

Unused jacks shall be use blank fittings. Refer to floor plans for exact drop count.

Data/Voice outlet shall be grounded to power receptacle ground.

2/E7.2 OUTLET DETAIL
N.T.S.

DRAWING PLOTTED: JAN 01, 1960 - 12:00
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DRAWING: E7.2

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5		
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1		
0	ISSUED FOR TENDER	2019.03.26

Client/client

Project title/Titre du projet
NEW POLICE BUILDING
PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par
SBK

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KAD / GTK

Drawn by/Dessine par
GTK

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie

Client/client

Drawing title/Titre du dessin
ELECTRICAL DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R-10-2017	E7.2	0

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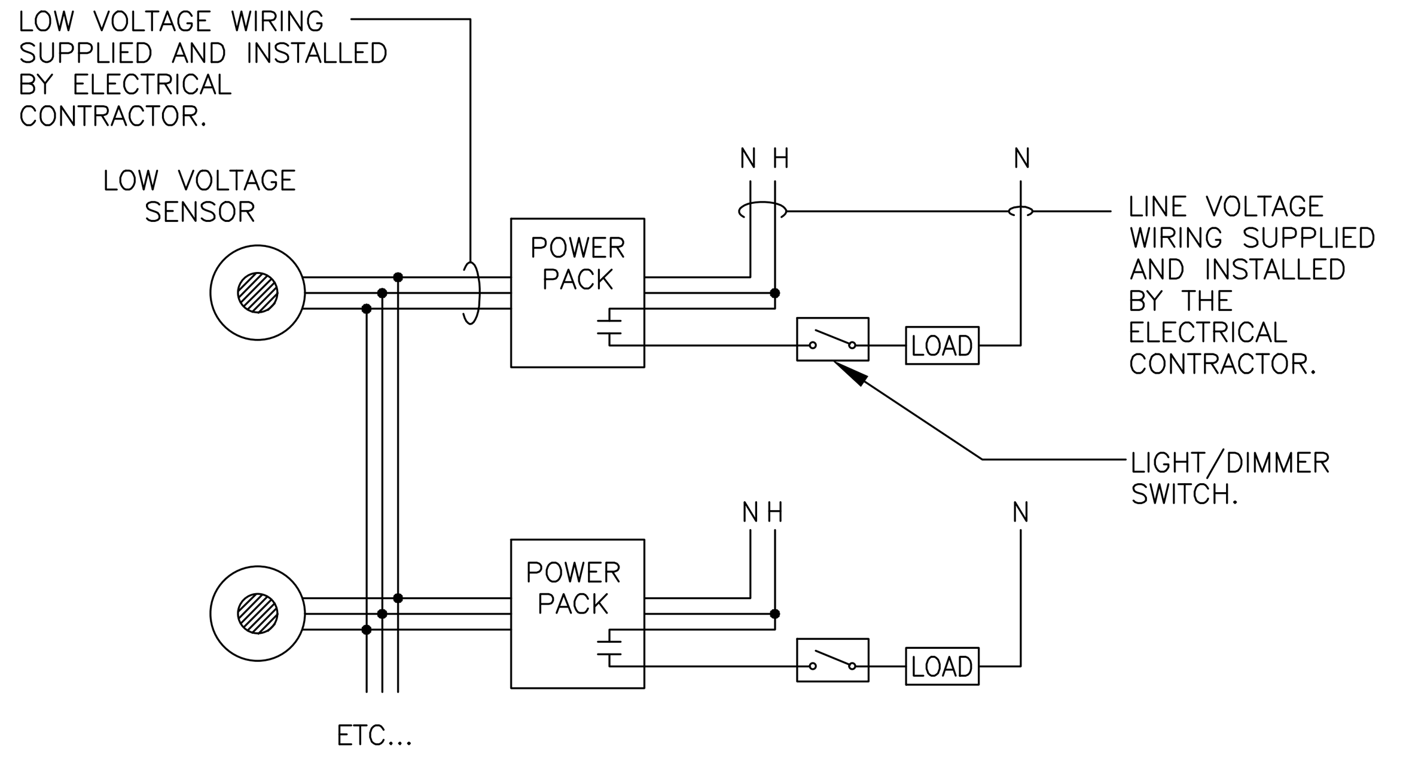
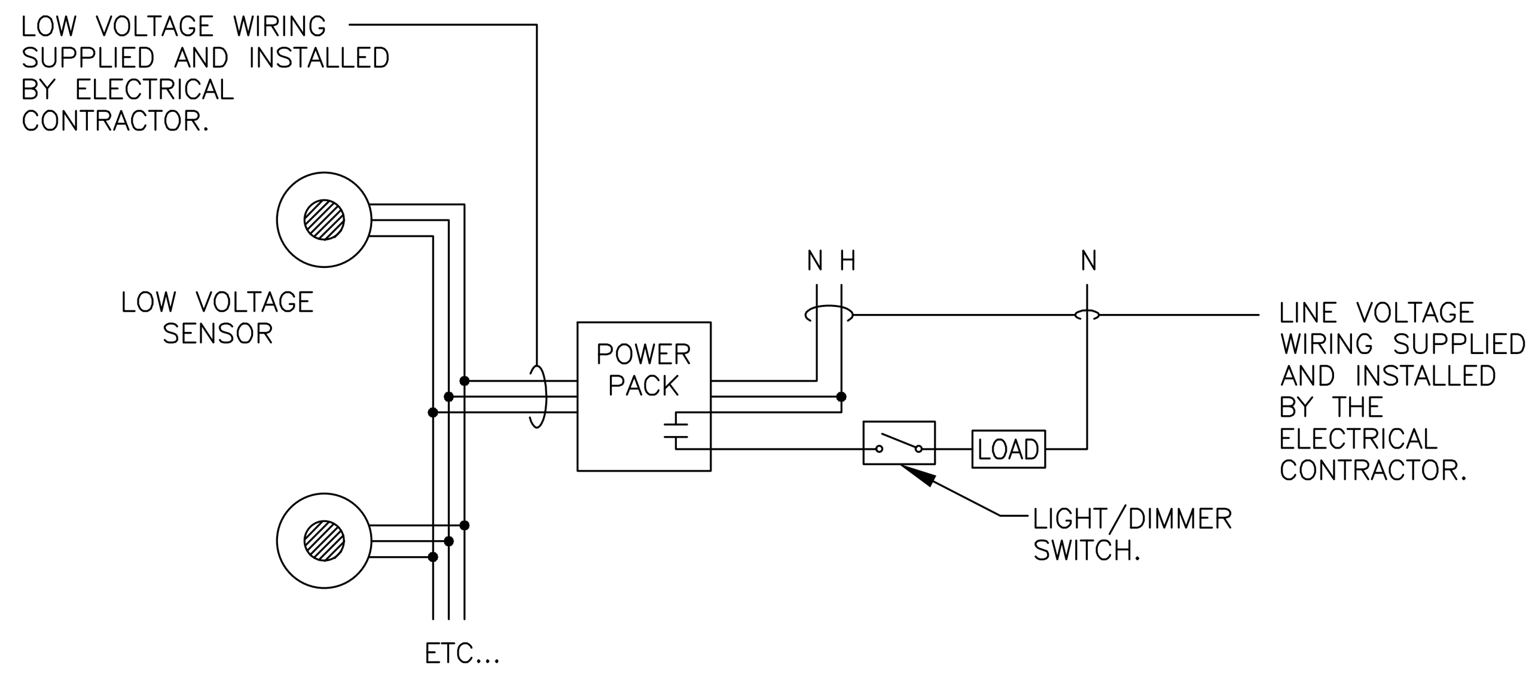
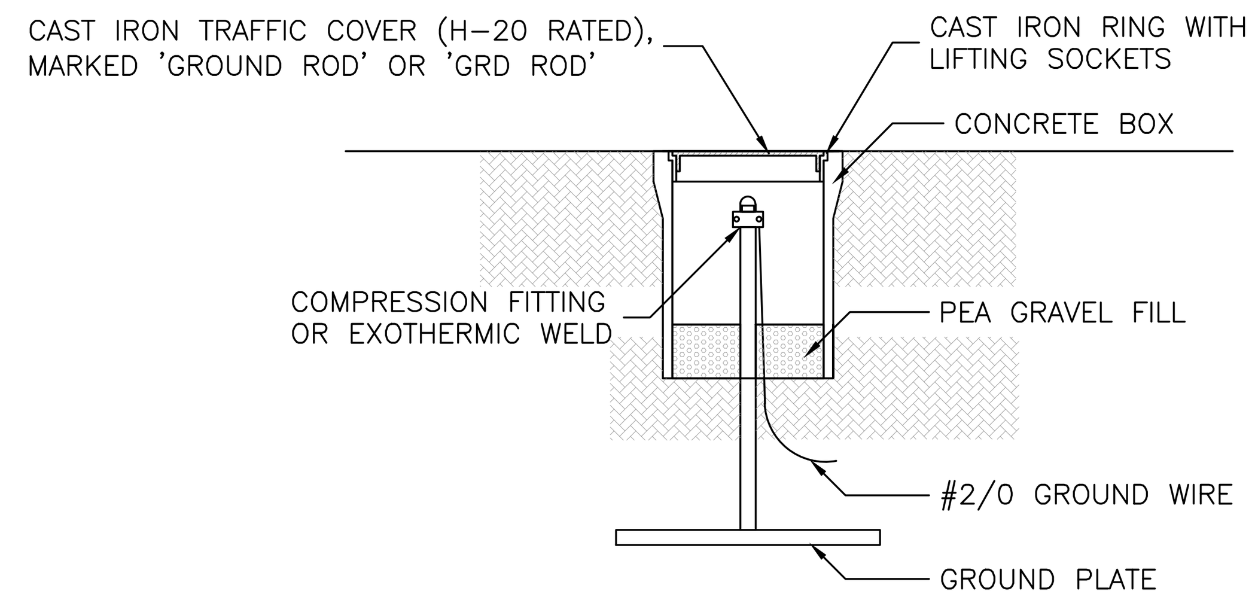


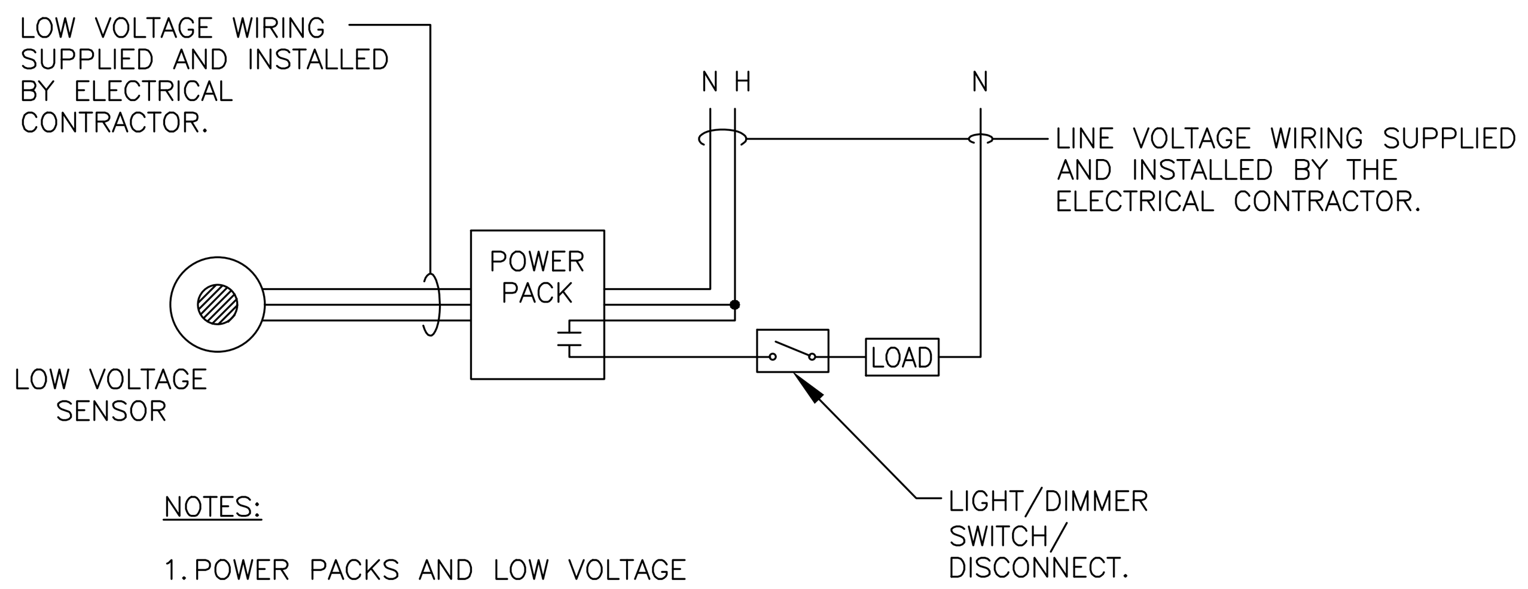
1 E7.3 MULTIPLE SENSORS W/ MULTIPLE CIRCUITS
N.T.S. (TYPICAL WIRING DIAGRAM)



2 E7.3 MULTIPLE SENSORS W/ SINGLE CIRCUITS
N.T.S. (TYPICAL WIRING DIAGRAM)



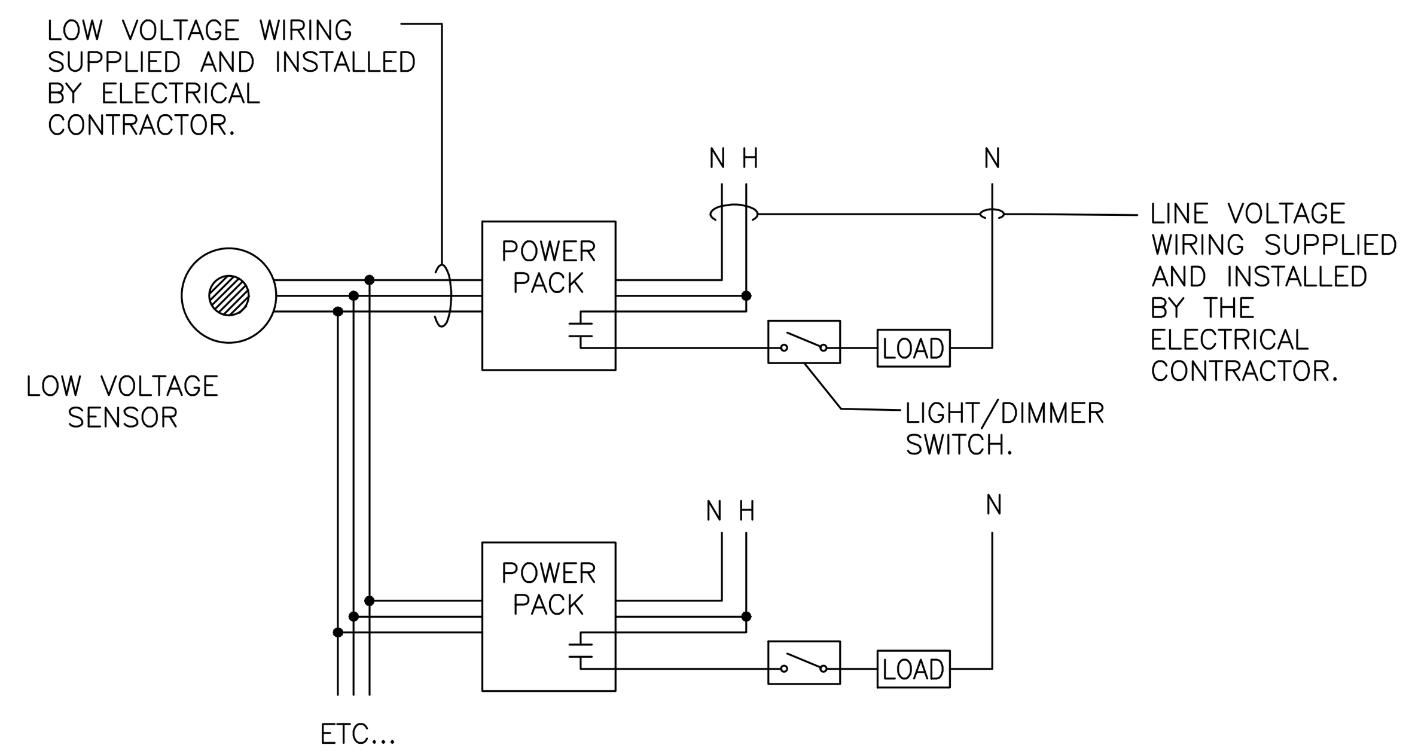
5 E7.3 GROUND PLATE DETAIL
N.T.S.



NOTES:

1. POWER PACKS AND LOW VOLTAGE WIRING DEVICES SUPPLIED BY OWNER, INSTALLED BY THE ELECTRICAL CONTRACTOR. REFER TO SPECIFICATION SECTION 16591 AND SYMBOL SCHEDULE.
2. ALL LINE VOLTAGE WIRING AND WIRING DEVICES SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
3. REFER TO FLOOR PLANS FOR DEVICE TYPES AND QUANTITIES. WIRING DIAGRAMS MAY VARY DEPENDING ON ROOM LAYOUTS.
4. ALL WIRING REQUIREMENTS SHALL BE CONFIRMED WITH DEVICE SHOP DRAWINGS PRIOR TO INSTALLATION.

3 E7.3 TYPICAL WIRING DIAGRAM
N.T.S.



4 E7.3 SINGLE SENSOR W/ MULTIPLE CIRCUITS
N.T.S. (TYPICAL WIRING DIAGRAM)

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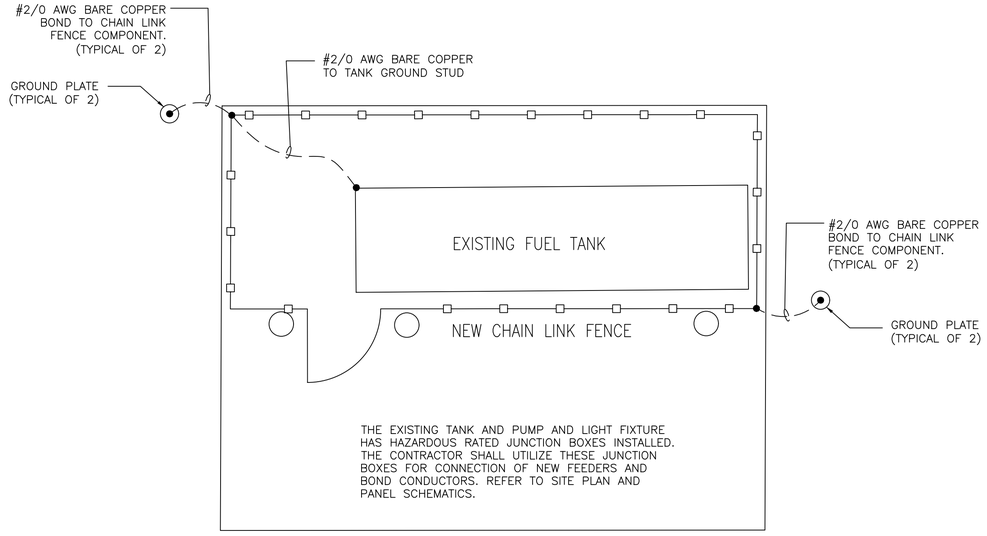
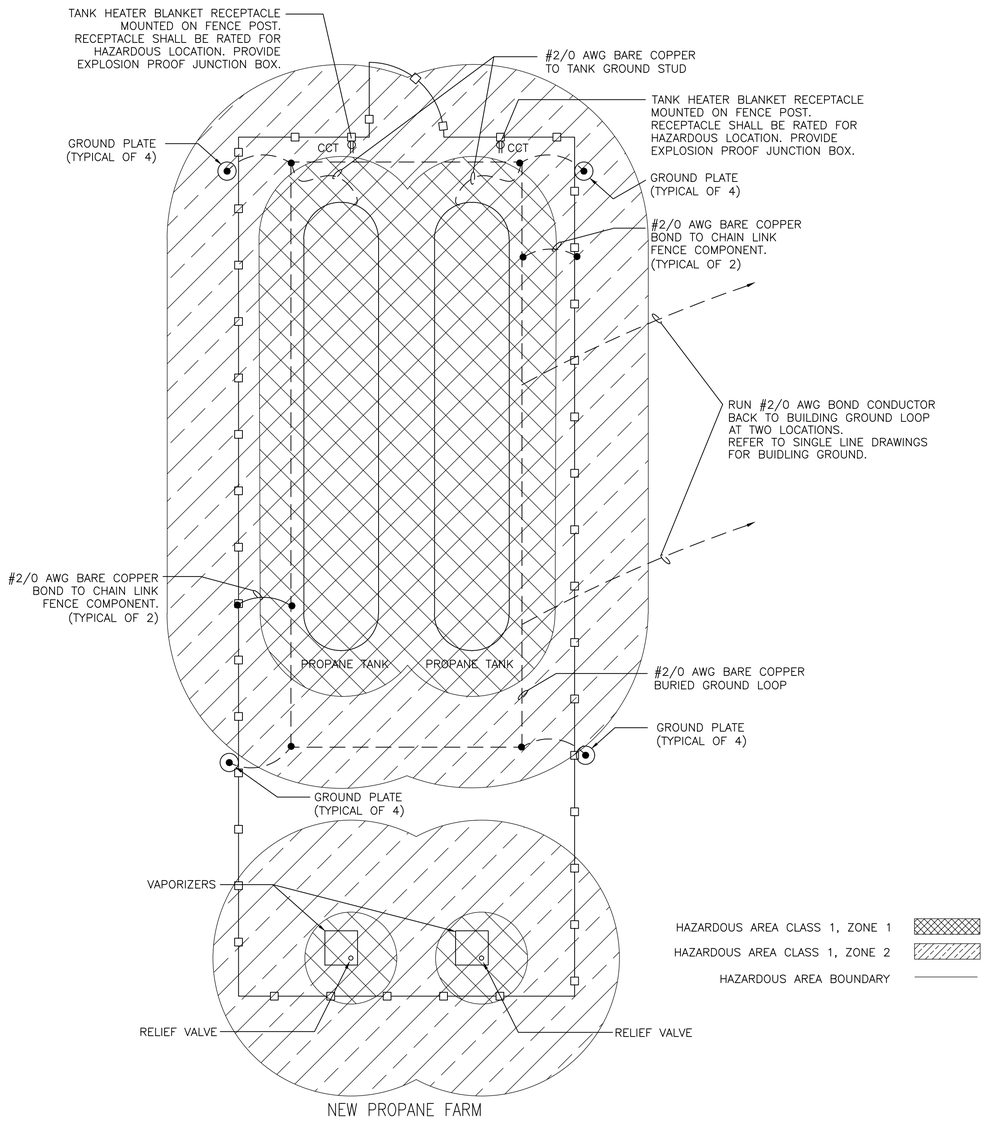
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R-10-2017	E7.3	0



1 E7.4 EXISTING FUEL TANK GOUND GRID DETAIL

1:100



1 E7.4 PROPANE STORAGE GROUND GRID DETAIL

1:100

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R-10-2017	E7.4	0

DRAWING PLOTTED:
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FILE NAME: 9057_E7.1_det1_.dwg
DRAWING: E7.4

PWGSC – A1 – 841X594

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

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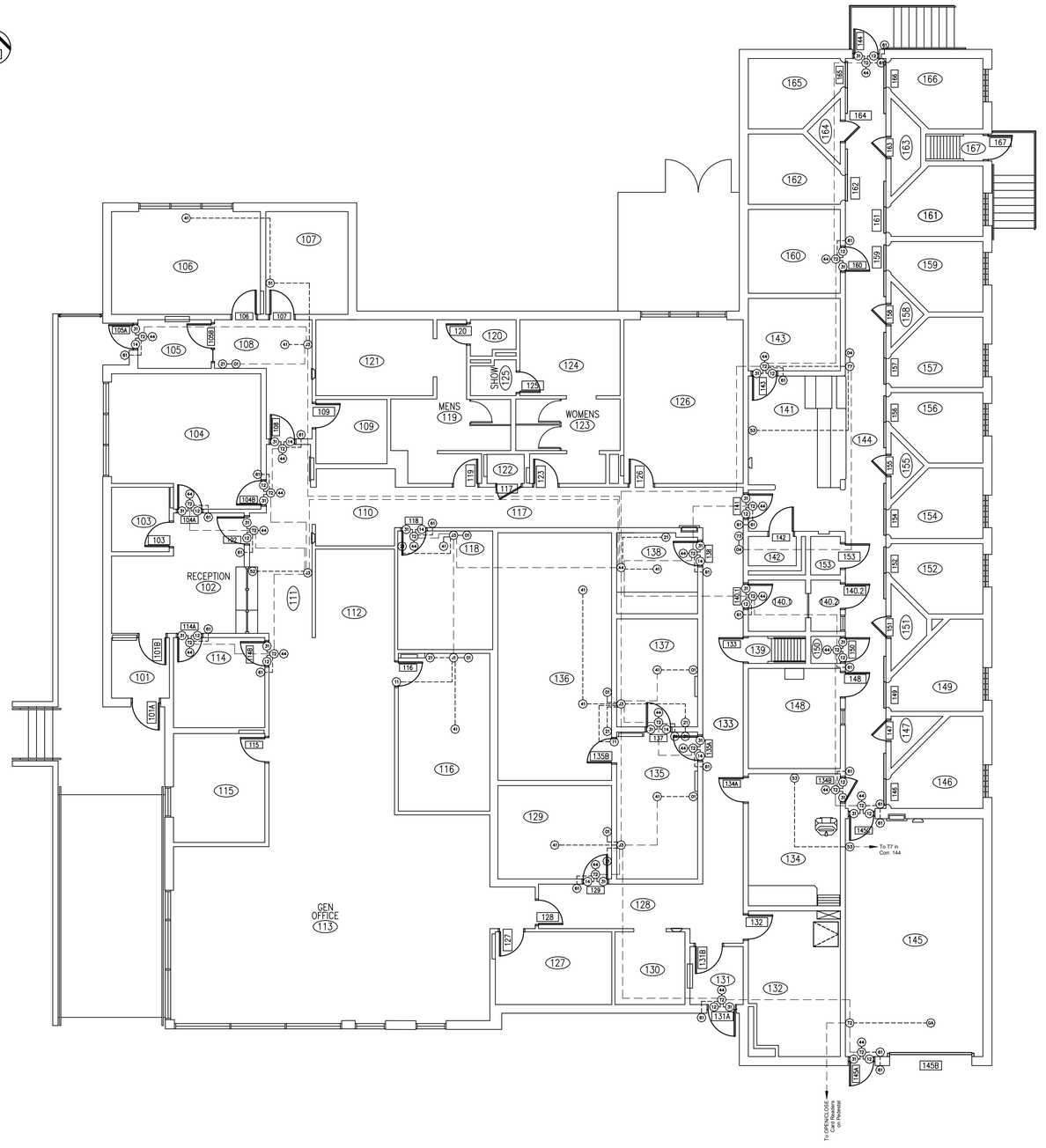
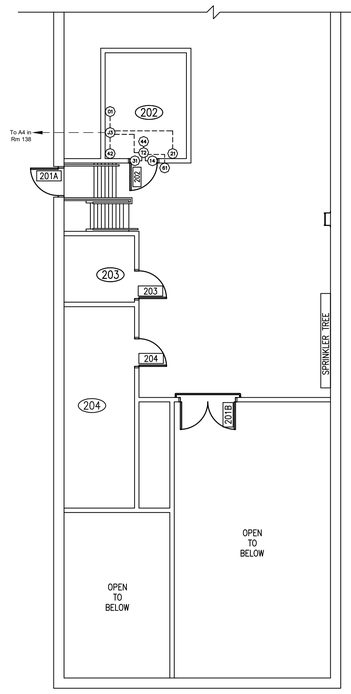
DRAWING LEGEND

13mm CONDUIT UNLESS SPECIFIED OTHERWISE

CONDUIT SIZED TO FIT NUMBER OF CABLES, UNLESS SPECIFIED OTHERWISE (MINIMUM 19mm)



1 E8.1 MAIN FLOOR CONDUIT PLAN
1:100



2 E8.1 RM 202 CONDUIT PLAN
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DRAWING: E8.1

PWGSC – A1 – 841X594

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

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PROFESSIONAL ENGINEER S.B. KERR MEMBER 9273 19 02 15 YR. MN. DAY SASKATCHEWAN

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5		
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0	ISSUED FOR TENDER	19/02/15

Client/client

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par
SBK

Designed by/Concept par
KAD / GTK

Drawn by/Dessine par
GTK

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie

Client/client

Drawing title/Titre du dessin

CCTV - ALARM SYSTEMS AND ACCESS CONTROL CONDUIT ROUGH IN PLAN WITH EAC & IDS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	E8.1	0

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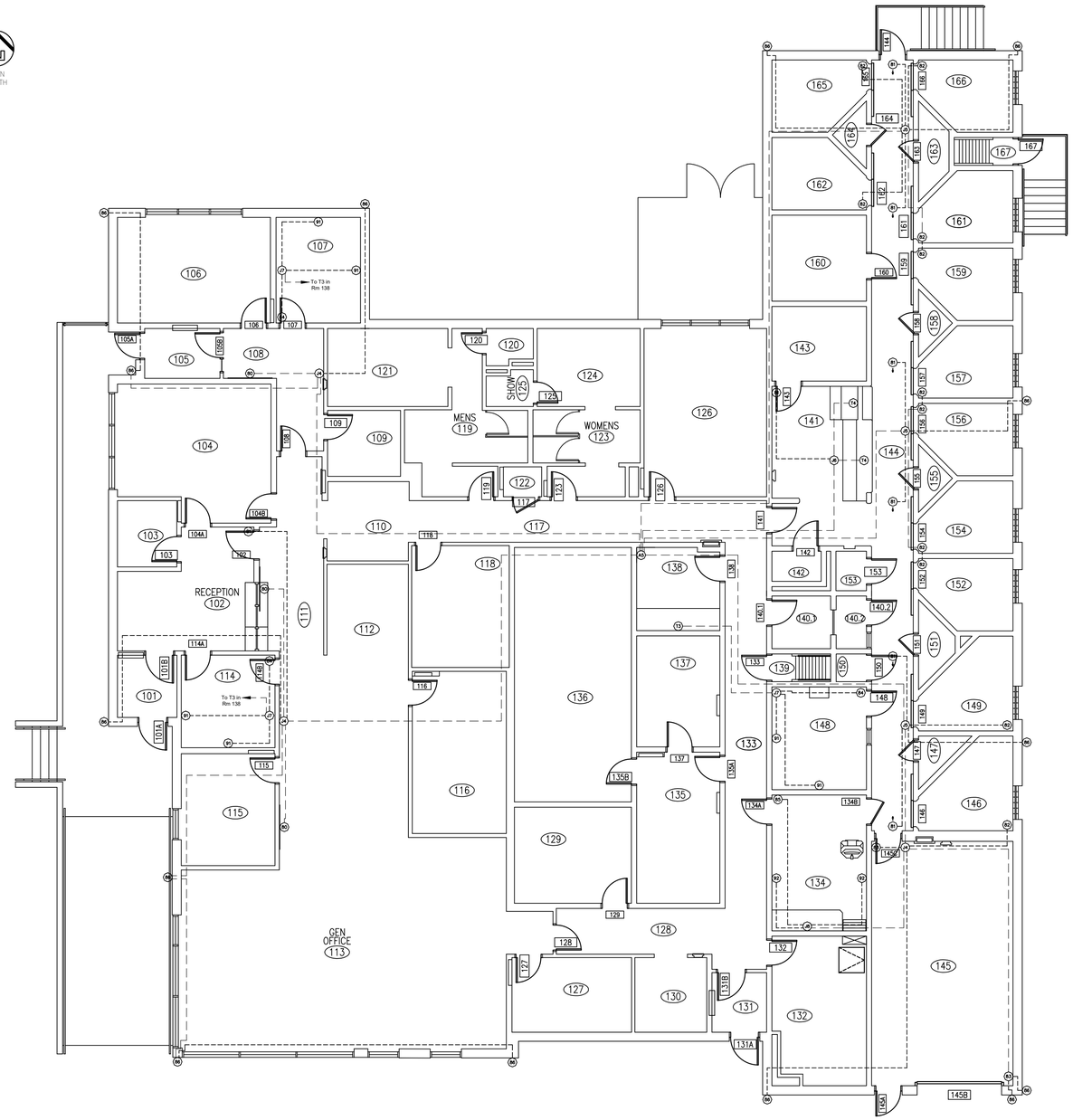
TRUE NORTH

PLAN NORTH



DRAWING LEGEND

13mm CONDUIT UNLESS SPECIFIED OTHERWISE

CONDUIT SIZED TO FIT NUMBER OF CABLES, UNLESS SPECIFIED OTHERWISE (MINIMUM 19mm)

1 / E8.1 MAIN FLOOR CONDUIT PLAN

1:100

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AM OR PM
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DRAWING: E8.2

PWGSC – A1 – 841X594

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

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Client/client

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CCTV - ALARM SYSTEMS AND ACCESS CONTROL CONDUIT ROUGH IN PLAN WITH AUDIO & VIDEO

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	E8.2	0

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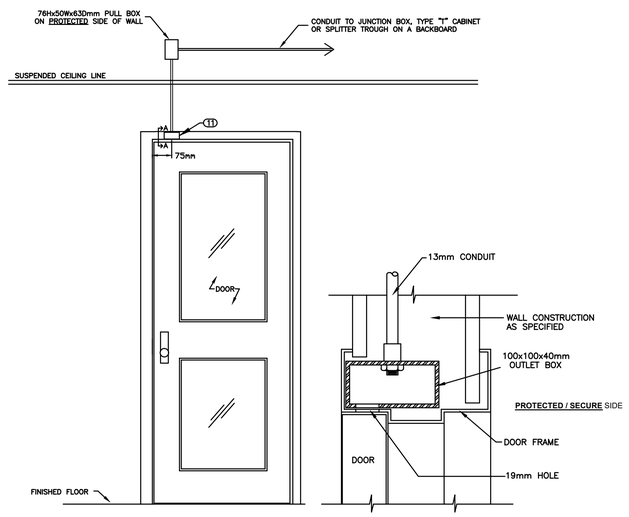
Detail Drawing

PROTECTED DOOR - ELEVATION OF SINGLE DOOR (NEW) WITH DOOR CONTACT



ELEVATION SECTION A

NOTES:

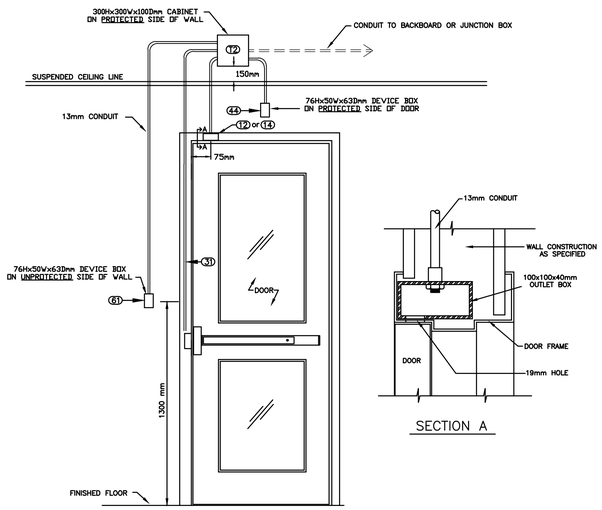
CONDUIT CONNECTOR TO BE MOUNTED AND FASTENED TO THE OUTLET BOX BY DOOR FRAME FABRICATOR.

OUTLET BOX TO BE SPOT WELDED IN PLACE BY DOOR FRAME FABRICATOR.

DRILL A 19MM HOLE AT 75MM (CENTER POINT) FROM THE EDGE OF THE DOOR CASING TO ALLOW FOR DOOR SWITCH INSTALLATION AND ACCESS TO WIRING.

Detail Drawing

ACCESS CONTROL – ELEVATION OF SINGLE DOOR WITH DOOR CONTACT, WALL MOUNTED READER AND ELECTRIC STRIKE (PANIC HARDWARE)



ELEVATION SECTION A

NOTES:

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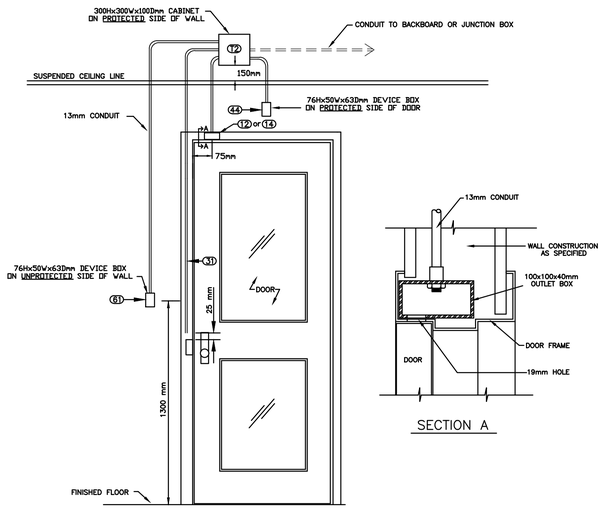
DRILL A 19MM HOLE AT 75MM (CENTER POINT) FROM THE EDGE OF THE DOOR CASING TO ALLOW FOR DOOR SWITCH INSTALLATION AND ACCESS TO WIRING.

Detail Drawing

ACCESS CONTROL – ELEVATION OF SINGLE DOOR WITH DOOR CONTACT, WALL MOUNTED READER AND ELECTRIC STRIKE



ELEVATION SECTION A

NOTES:

CONDUIT CONNECTOR TO BE MOUNTED AND FASTENED TO OUTLET BOX BY DOOR FRAME FABRICATOR.

OUTLET BOX TO BE SPOT WELDED IN PLACE BY DOOR FRAME FABRICATOR.

DRILL A 19MM HOLE AT 75MM (CENTER POINT) FROM THE EDGE OF THE DOOR CASING TO ALLOW FOR DOOR SWITCH INSTALLATION AND ACCESS TO WIRING.

1 / E8.3 DOOR ROUGH-IN DETAILS

N.T.S.

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PWGSC – A1 – 841X594

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Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par
SBK

Designed by/Concept par
KAD / GTK

Drawn by/Dessine par
GTK

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie

Client/client

Drawing title/Titre du dessin

CCTV - ALARM SYSTEMS AND ACCESS CONTROL CONDUIT DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	E8.3	0

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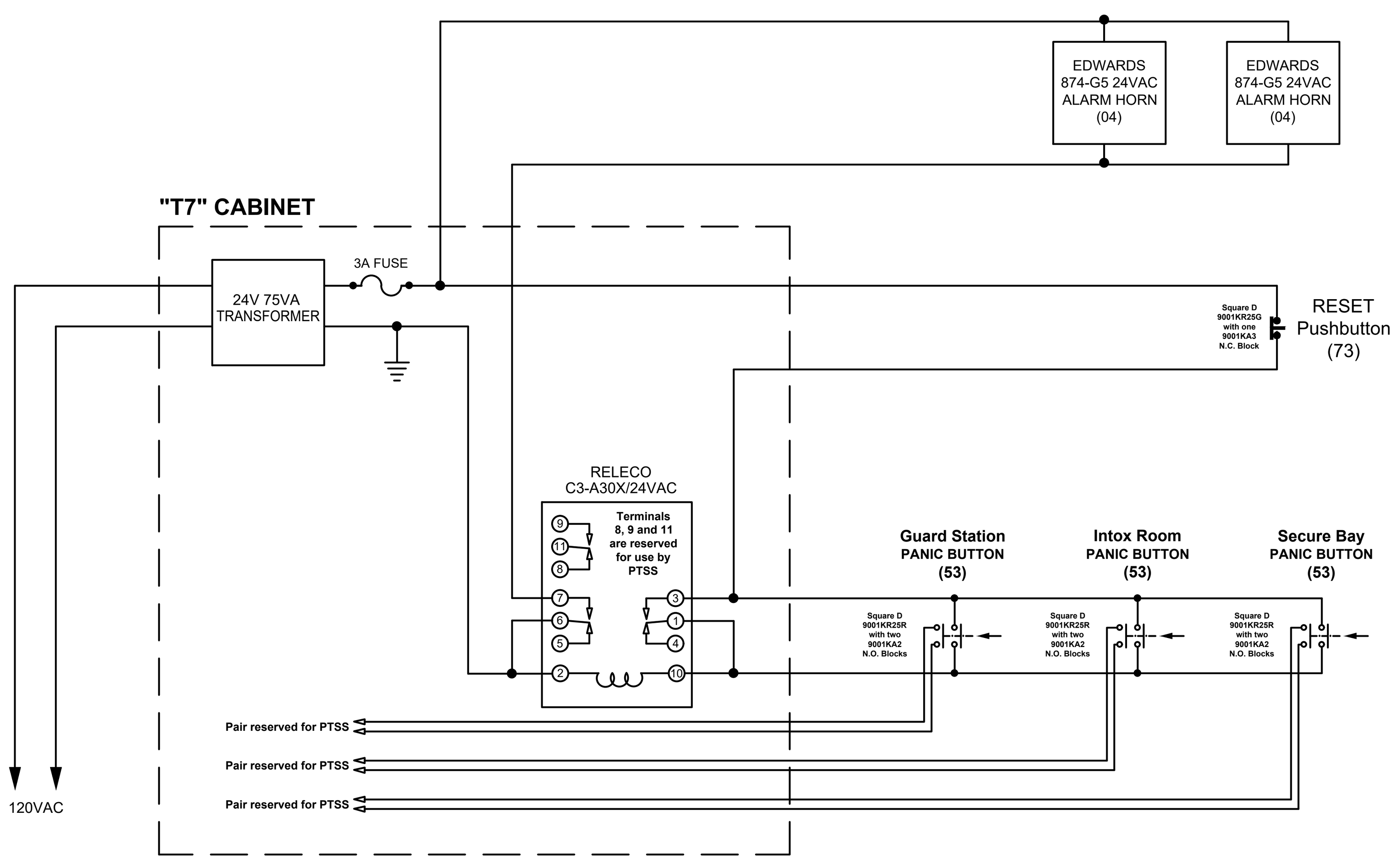
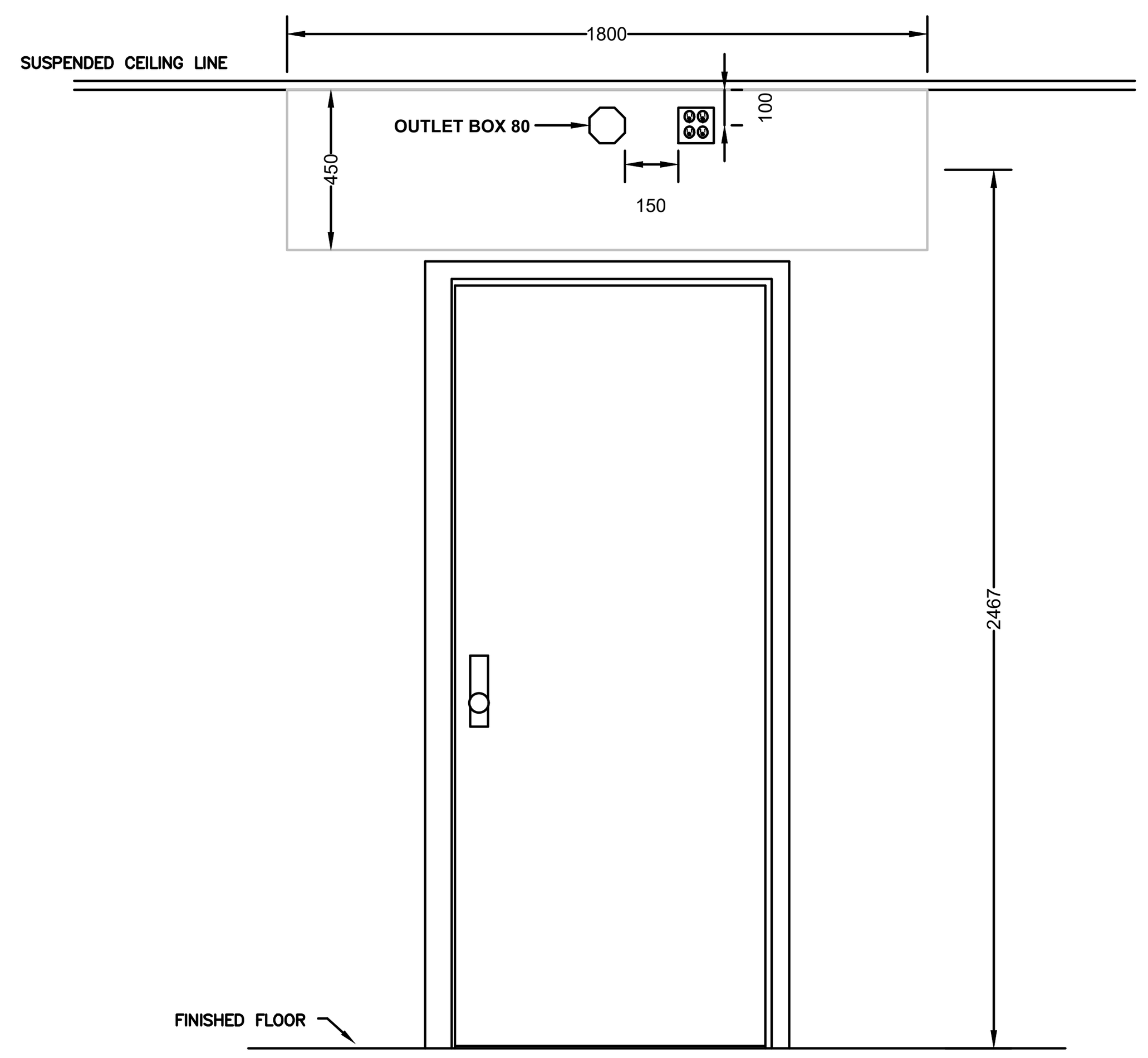
Detail Drawing

SCHEMATIC - CELL BLOCK RIOT ALARM



Detail Drawing

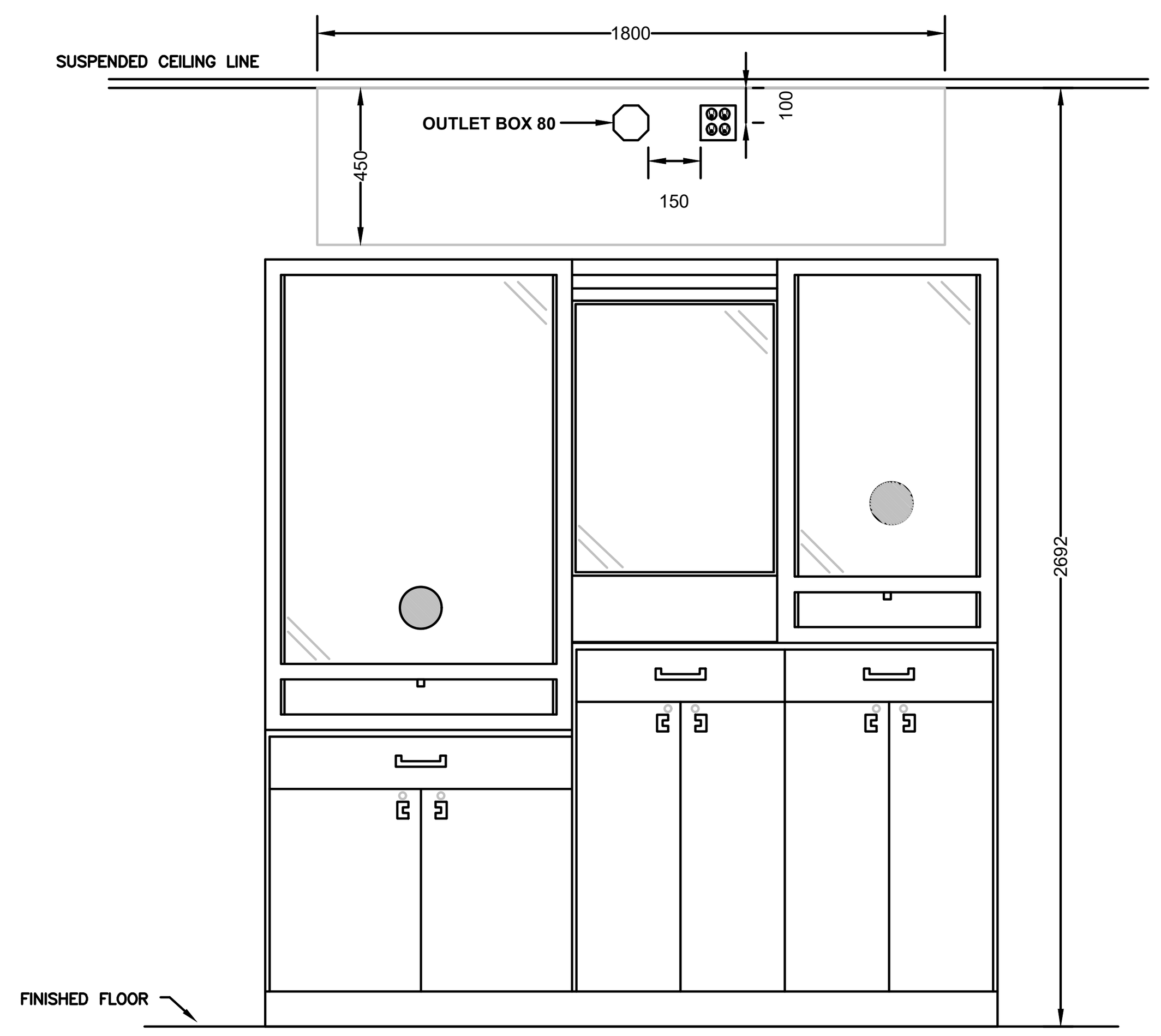
PARTIAL ELEVATION OF SINGLE DOOR
WITH 19mm G1S PLYWOOD BACKING ABOVE



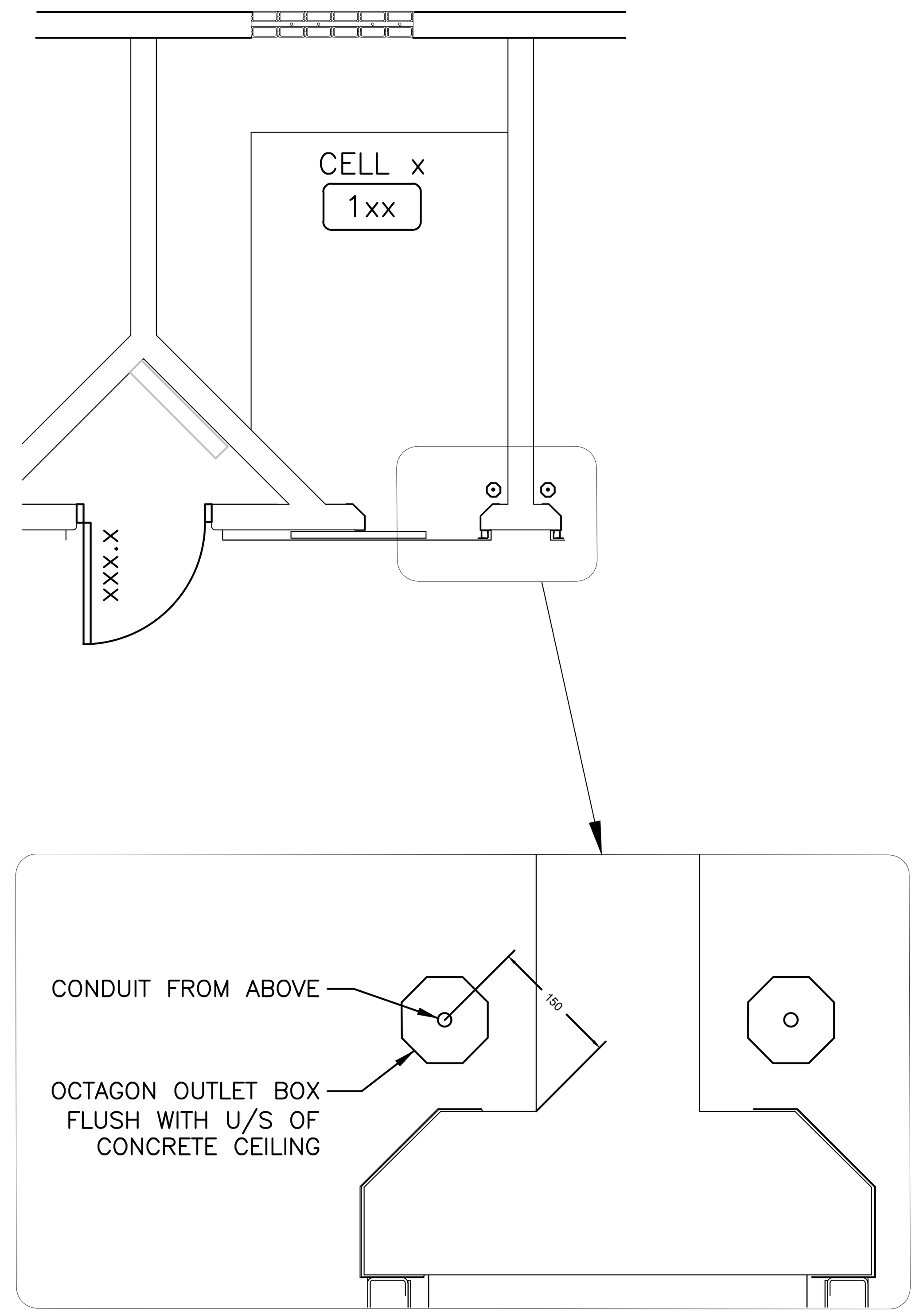
ELEVATION

Detail Drawing

PARTIAL ELEVATION OF COUNTER BARRIER
WITH 19mm G1S PLYWOOD BACKING ABOVE



ELEVATION



1 / E8.2 OCTAGON BOX FOR CORNER MOUNT DOME CAMERA

N.T.S.

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NEW POLICE BUILDING
PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par: SBK

Designed by/Concept par: KAD / GTK

Drawn by/Dessine par: GTK

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

CCTV - ALARM SYSTEMS AND CORNER MOUNT CAMERA AND DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R-10-2017	E8.4	0

PWGSC – A1 – 841X594

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TRUE NORTH

PLAN NORTH

DRAWING LEGEND

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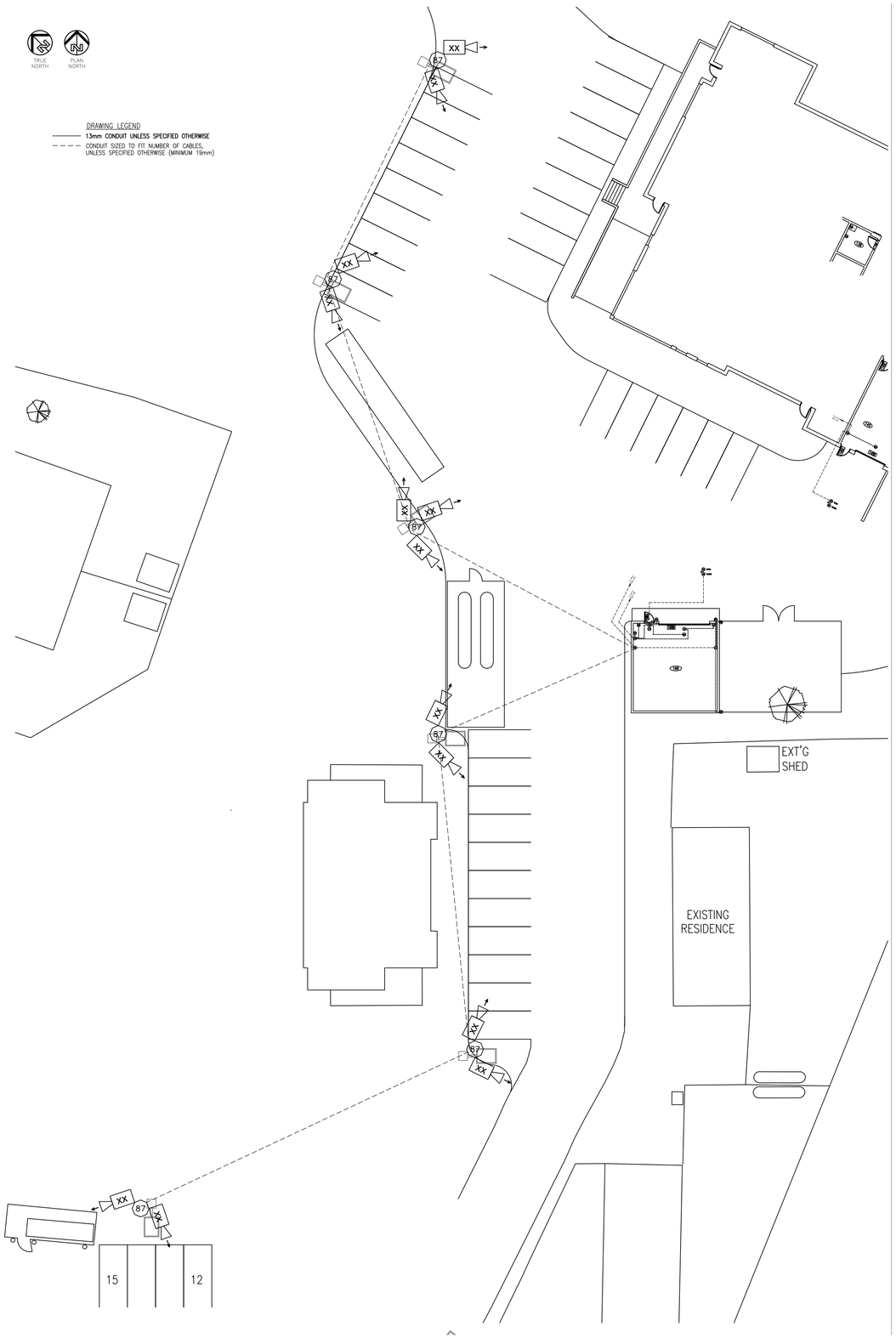
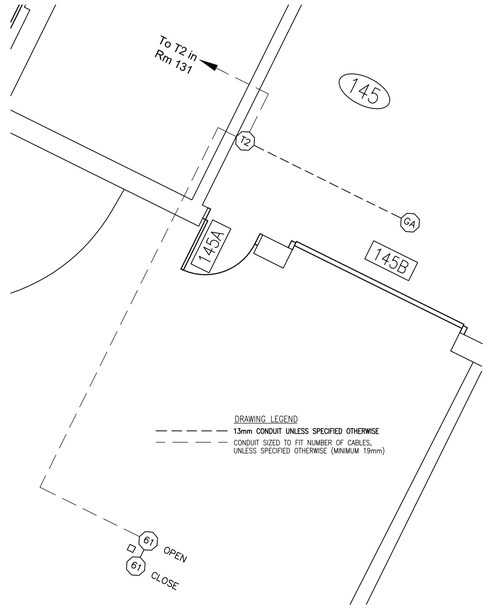
CONDUIT SIZED TO FIT NUMBER OF CABLES, UNLESS SPECIFIED OTHERWISE (MINIMUM 19mm)



1 E8.5 PARTIAL SITE PLAN
1:250

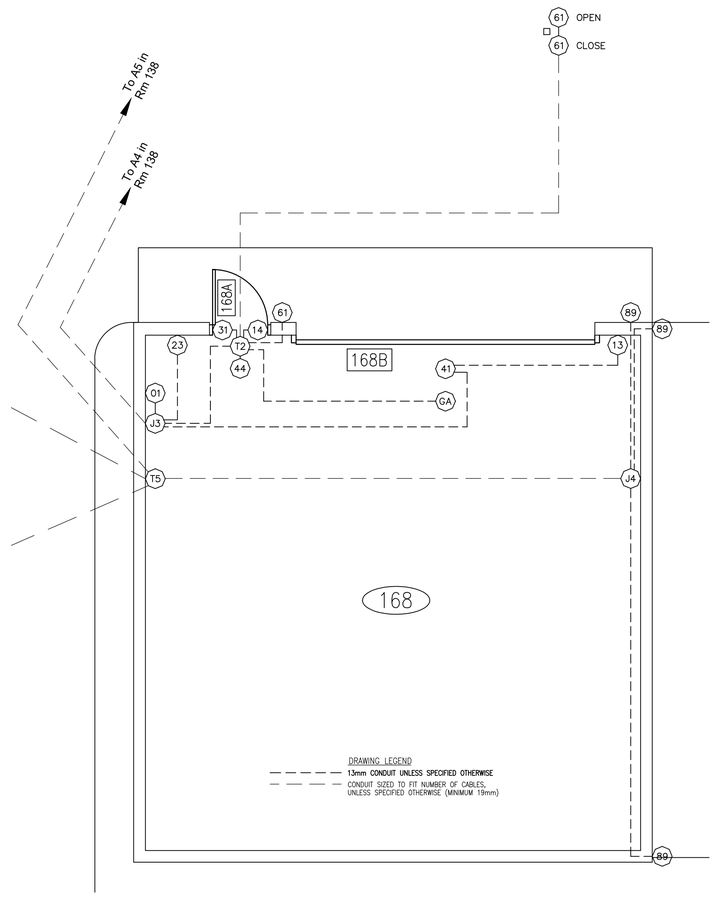


DRAWING LEGEND

13mm CONDUIT UNLESS SPECIFIED OTHERWISE

CONDUIT SIZED TO FIT NUMBER OF CABLES, UNLESS SPECIFIED OTHERWISE (MINIMUM 19mm)

2 E8.5 PARTIAL SITE & BUILDING PLAN
1:50



DRAWING LEGEND

13mm CONDUIT UNLESS SPECIFIED OTHERWISE

CONDUIT SIZED TO FIT NUMBER OF CABLES, UNLESS SPECIFIED OTHERWISE (MINIMUM 19mm)

3 E8.5 OUT BUILDING PLAN
1:50

DRAWING PLOTTED: AM / PM 2015-02-19 12:00
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DRAWING: E8.5

PWGSC – A1 – 841X594

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

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CCTV - ALARM SYSTEMS AND ACCESS CONTROL CONDUIT SITE PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	E8.5	0

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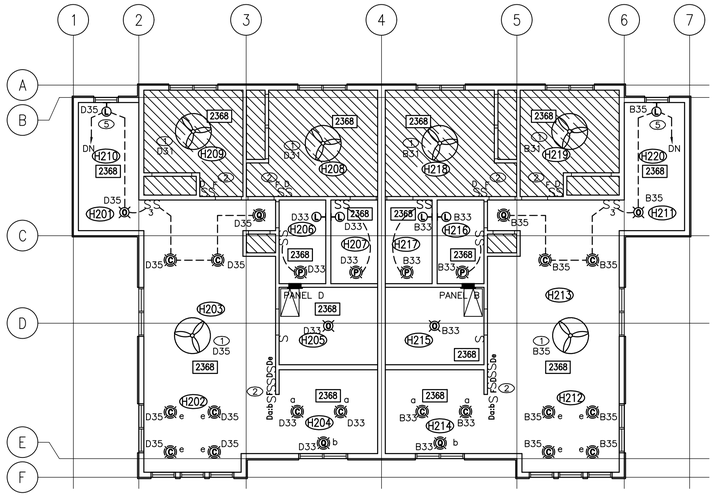
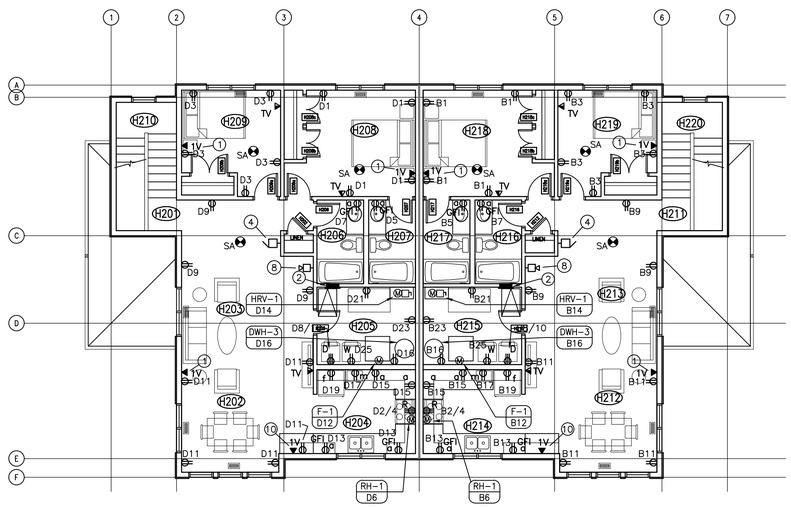


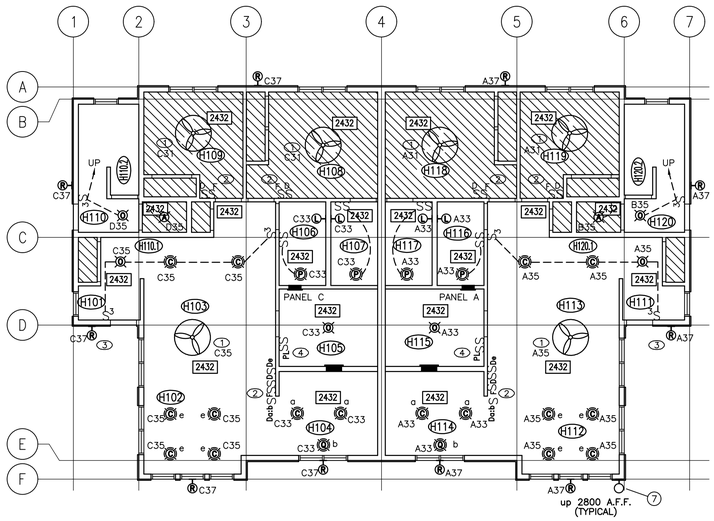
SECOND FLOOR LIGHTING PLAN

1 / E9.1 — 1:100



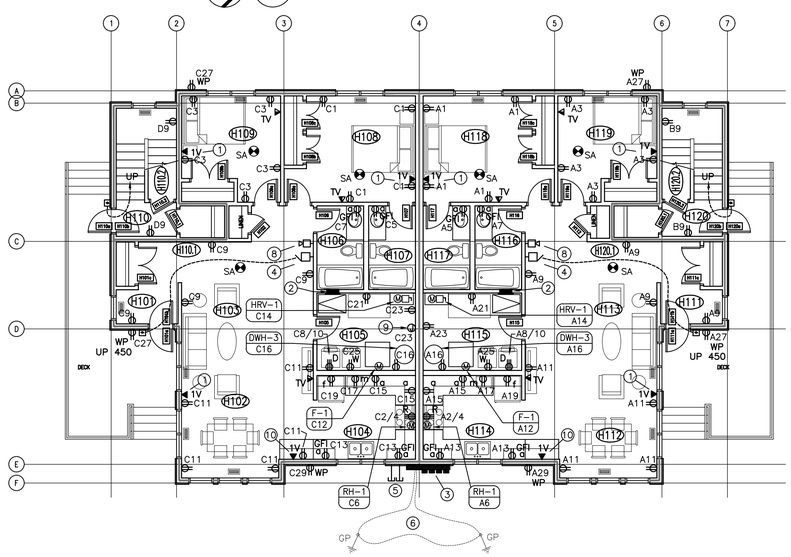
SECOND FLOOR POWER PLAN

3 / E9.1 — 1:100



MAIN FLOOR LIGHTING PLAN

2 / E9.1 — 1:100



MAIN FLOOR POWER PLAN

4 / E9.1 — 1:100

SYMBOL SCHEDULE

- (M) MOTOR CONNECTION. SEE MECHANICAL DRAWINGS FOR DETAILS AND COORDINATE FINAL LOCATIONS ON SITE.
- WP MOTOR DISCONNECT SWITCH, SUFFIX 'WP' INDICATES WEATHERPROOF.
- (J) JUNCTION BOX/OUTLET BOX.
- RECESSED CEILING MOUNTED FIXTURE
- MOLDED CASE TYPE CIRCUIT BREAKER, 15 AMP UNLESS OTHERWISE NOTED.
- GFI MOLDED CASE TYPE CIRCUIT BREAKER, GROUND FAULT INTERRUPTER, 15 AMP UNLESS NOTED OTHERWISE.
- AF MOLDED CASE COMBINATION–TYPE ARC–FAULT CIRCUIT BREAKER, 15 AMP UNLESS NOTED OTHERWISE.
- S S.P.S.T. SWITCH MOUNTED UP 1200mm.
- 3S 3–WAY SWITCH MOUNTED UP 1200mm.
- 4S 4–WAY SWITCH MOUNTED UP 1200mm.
- DS S.P.S.T. SWITCH/DIMMER MOUNTED UP 1200mm. DIMMER SHALL BE SIZED ACCORDING TO LOAD; 500W, 1000W, 1500W.
- DUPLEX GROUNDED RECEPTACLE MOUNTED UP 450MM, UNLESS OTHERWISE STATED BY ONE OF THE FOLLOWING SUFFIXES.
  - a – 300mm ABOVE COUNTER
  - c – 150mm BELOW COUNTER, RECESSED IN ARCHITECTURAL MILLWORK.
  - f – 1200mm ABOVE FINISHED FLOOR.
  - m – MICROWAVE RECEPTACLE UP 250mm ABOVE MICROWAVE SHELF.
- GFI DUPLEX GROUND FAULT CURRENT INTERRUPTER RECEPTACLE MOUNTED UP 450mm OR AS NOTED. SUFFIX 20A INDICATES A 20 AMP RECEPTACLE 5–20R.
- WP DUPLEX GFI RECEPTACLE C/W DIECAST ALUMINUM WEATHERPROOF RESISTANT WHILE IN USE COVER. ADAPT FOR FLUSH OR FS BOX MOUNTING MOUNTED UP 900mm.
- R RANGE RECEPTACLE, 50 AMP, 125/250 VOLT, 4 WIRE GROUNDED RECEPTACLE C/W COVERPLATE. MOUNT UP 150mm. CORD SET SUPPLIED WITH RANGE.
- D DRYER RECEPTACLE, 30 AMP, 125/250 VOLT, 4 WIRE GROUNDED RECEPTACLE C/W COVERPLATE. MOUNT UP 900mm. CORD SET SUPPLIED WITH DRYER.
- AF DUPLEX RECEPTACLE WITH ARC FAULT PROTECTION. MOUNTED UP 450mm.
- TV CABLE TELEVISION OUTLET MOUNTED UP 450mm UNLESS NOTED OTHERWISE. PROVIDE 100mm SQUARE BOX C/W SINGLE GANG EXTENSION RING AND STAINLESS STEEL COVERPLATE WITH TYPE 'F' CONNECTORS. PROVIDE RG6 COAXIAL CABLE IN CONDUIT TO CABLE TV TAP BOX.
- 1V TELEPHONE OUTLET IN 100mm SQUARE BOX C/W SINGLE GANG EXTENSION RING, MOUNTED UP 450mm UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR CABLE AND JACKS.
- RECESSED ELECTRICAL PANEL.
- SA SMOKE ALARM DEVICE C/W WITH BATTERY BACK–UP, HARD WIRED TO 120 VOLT SEPARATE CIRCUIT. CEC 32–110 REQUIRES ALARM TO BE ON A WASHROOM LIGHTING CIRCUIT. SMOKE ALARMS WITHIN EACH SUITE SHALL BE INTERCONNECTED TO SOUND TOGETHER IF ANY ONE DEVICE IS ACTIVATED IN THE EVENT OF AN ALARM. SMOKE ALARMS BETWEEN SUITES ARE NOT REQUIRED TO BE INTERCONNECTED.

NOTE:
ALL RECEPTACLES LOCATED INSIDE THE MODULAR UNITS SHALL BE TAMPER PROOF TYPE.

POWER & SYSTEMS DRAWING NOTES:

1. PROVIDE NEW VOICE OUTLET FOR TELEPHONE CONNECTION. INCOMING TELEPHONE HOUSE CABLE FROM MAIN TELEPHONE DEMARK IN UTILITY ROOMS.
2. PROVIDE NEW RECESSED PANEL AT THIS LOCATION. REFER TO PANEL SCHEMATIC FOR FEEDER SIZE AND CIRCUITRY. PANEL SHALL BE FED FROM INCOMING FEED THROUGH THE CRAWLSPACE BELOW. WALL SHALL BE THICKENED TO ACCEPT PANEL BACK–BOX.
3. SASKPOWER SERVICE ENTRANCE AND METER SOCKETS. REFER TO SINGLE LINE FOR REQUIREMENTS.
4. DOOR BELL CHIME MOUNTED UP 2100mm ABOVE FINISHED FLOOR. MOUNT DOOR BELL BUTTON UP 1200mm ABOVE LANDING.
5. PROVIDE ONE 53mm DB2 CONDUIT C/W PULL STRING STUBBED OUT FROM CRAWLSPACE BELOW UTILITY ROOM, ONE METER PAST EXTERIOR WALL FOR INCOMING TELEPHONE HOUSE CABLE. PROVIDE A BIX BLOCK IN THE UTILITY ROOM FOR TERMINATION OF TELEPHONE CABLE. MOUNT BIX BLOCK UP 1830mm A.F.F.. PROVIDE 53mm CONDUIT FROM BIX LOCATION STUBBED INTO CRAWLSPACE BELOW. TERMINATE VOICE CABLES FROM WALL OUTLETS ON BIX BLOCK. REFER TO SPECIFICATIONS. PROVIDE #6 INSULATED GROUND TO BUILDING GROUND BUS AND A DUPLEX RECEPTACLE ADJACENT TO THE BIX BLOCK AND CONNECT TO NEAREST 120 VOLT GENERAL PURPOSE CIRCUIT.
6. PROVIDE BUILDING GROUND LOOP. REFER TO SINGLE LINE FOR DETAILS.
7. PROVIDE HEAT TRACE BEACON LIGHT WALL MOUNTED UP 1830mm ABOVE FINISHED FLOOR. CONNECT TO HEAT TRACE CONTROLLER LOCATED IN CRAWLSPACE. STROBE SHALL BE CONNECTED TO CONTROLLER ALARM SIGNAL CONTACTS. BEACON SHALL BE C/W STROBE TUBE LAMP (4,000 HOURS) 100,000 CANDELA PEAK, 'AMBER' DOME, TYPE 3R ENCLOSURE SUITABLE FOR WET LOCATIONS. OPERATING TEMPERATURE –31', PROVIDE WALL MOUNTING BRACKETS, 120 VOLT CONNECTION TO CONTROLLER. COORDINATE WITH CONTROLLER SHOP DRAWINGS AND WIRING SCHEMATICS. PROVIDE ALL COMPONENTS FOR FINAL CONNECTION. MANUFACTURER: FEDERAL SIGNAL CORP. SERIES ELECTRAFLASH '141ST' SERIES.
8. PROVIDE HEAT TRACE AUDIBLE SIGNAL DEVICE MOUNTED UP 2100mm ABOVE FINISHED FLOOR. CONNECT TO HEAT TRACE CONTROLLER. HORN SHALL BE CONNECTED TO CONTROLLER ALARM SIGNAL CONTACTS. MOUNT TO A RECESSED 100mm SQUARE OUTLET BOX. BUILT–IN GAIN CONTROL, ADJUSTIBLE BETWEEN 64dBA TO 88dBA AT 10'. 120 VOLT CONNECTOR KIT FOR CONNECTION TO CONTROLLER. MANUFACTURER: FEDERAL SIGNAL CORP. SERIES SELECTONE '50GC SERIES.
9. PROVIDE FINAL CONNECTION TO HEAT TRACE CONTROLLERS. CONTROLLERS PROVIDED AND INSTALLED BY OTHERS. COORDINATE FINAL LOCATION WITH SUPPLIER. WIRING FROM THE CONTROLLERS TO THE HEAT TRACE CABLE LOOP IN THE CRAWLSPACE SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. RUN WIRING DOWN INTO THE CRAWLSPACE AT THE INCOMING WATER SERVICE. PROVIDE AN EXCESS COIL OF WIRING FOR FINAL CONNECTIONS TO HEAT TRACE CABLES. THE ELECTRICAL CONTRACTOR SHALL COMPLETE THE FINAL WRAPPING OF THE HEAT TRACE CABLE ON THE PIPES ON SITE. AFTER THE FINAL CONNECTIONS THE CONTRACTOR SHALL ENSURE INSULATION OF THE PIPES IS COMPETED. COORDINATE WITH THE MECHANICAL CONTRACTOR ON SITE. REFER TO THE MECHANICAL DRAWINGS FOR DETAILS FOR HEAT TRACE CABLE INSTALLATION AND FINAL LOCATIONS OF THE INCOMING WATER LINES.
10. PROVIDE ONE VOICE JACK AND ONE DUPLEX RECEPTACLE UP 250mm ABOVE LOWER LEVEL COUNTER.

GENERAL NOTES:

1. PROVIDE CONNECTION TO HEAT TRACE ON MECHANICAL PIPING IN THE CRAWLSPACE. COORDINATE WITH MECHANICAL DRAWINGS.
2. ALL RECEPTACLE AND LIGHTING SWITCH COVER PLATES IN FINISHED AREAS SHALL BE WHITE.

MECHANICAL EQUIPMENT SCHEDULE NOTES

REFER TO EQUIPMENT SCHEDULE ON DRAWING E6.2.

LIGHTING DRAWING NOTES :

1. PROVIDE NEW CEILING FAN & LIGHT COMBINATION AT THIS LOCATION. REFER TO TYPE 'N' FIXTURE IN LIGHTING SPECIFICATIONS.
2. PROVIDE A SEPARATE SPEED CONTROL SWITCH FOR FAN CONTROL AND DIMMER SWITCH FOR FAN LIGHTS.
3. MOUNT FIXTURE UP 2050mm ABOVE TOP OF DECK.
4. PROVIDE PILOT LIGHT SWITCH FOR CRAWLSPACE LIGHTING AND LABEL "CRAWLSPACE".
5. MOUNT FIXTURE UP 150mm ABOVE TOP OF WINDOW FRAME.

SEPW Architecture Inc.
■ 109 - 3725 Pasqua Street, Regina, SK, S4S 6W8 ph: (306) 569-2255
□ 102 - 3718 Kinnear Place, Saskatoon SK, S7P 0A6 ph: (306) 652-6457
■ website: www.sepw.ca

Ritenburg & Associates Ltd.
Consulting Electrical Engineers
#617 1st Avenue North
Saskatoon, Saskatchewan S7K 1X7
P: (306) 244-1303 F: (306) 244-1307
Email: ral@ritenburg. com

PROFESSIONAL ENGINEER — S.B. KEAN — MEMBER 9273 — 19 02 15 (YR. MN. DAY) — SASKATCHEWAN

ASSOCIATION OF PROFESSIONAL ENGINEERS OF SASKATCHEWAN
CERTIFICATE OF AUTHORIZATION
RITENBURG & ASSOCIATES LTD.
NUMBER 52
PERMISSION TO CONSULT HELD BY:

DISCIPLINE	SASK. REG. NO.	SIGNATURE
ELECTRICAL	9273	

DO NOT SCALE DRAWINGS

Revision/ Revision	Description/Description	Date/Date
5		
4		
3		
2		
1		
0	ISSUED FOR TENDER	19/02/15

Client/client

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par: SBK

Designed by/Concept par: KAD / GTK

Drawn by/Dessine par: GTK

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

HOUSING UNIT MAIN FLOOR LIGHTING AND POWER AND SYSTEMS PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	E9.1	0

DRAWING PLOTTED: JAN 27, 2015 - 12:50
FILE NAME: 50573_E9.1-E9.2_housing_.dwg
DRAWING: E9.1

PWGSC – A1 – 841X594

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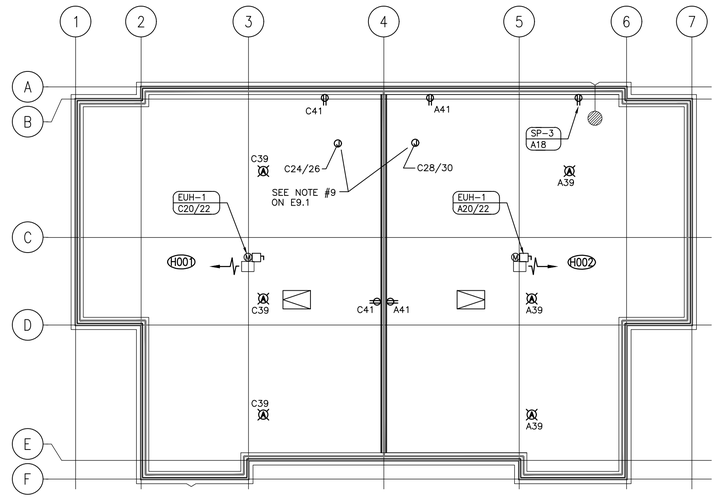
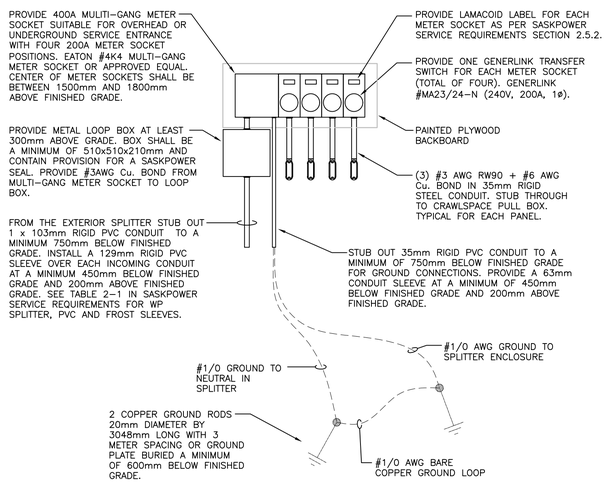
A000



1 E9.2 **CRAWLSPACE PLAN**

1:100



2 E9.2 **HOUSING UNIT SINGLE LINE**

N.T.S.

TYPICAL HOUSING UNIT PANEL

120/240V-1ø-3W

MASTER BEDROOM RECEPTACLES	AF	1	2	50	RANGE
BEDROOM RECEPTACLES	AF	3	4		
ENSUITE BATHROOM GFI RECEPTACLE		5	6		RANGE HOOD
BATHROOM GFI RECEPTACLE		7	8	30	CLOTHES DRYER
GENERAL PURPOSE RECEPTACLES	AF	9	10		
LIVING/DINING ROOM RECEPTACLES	AF	11	12		FURNACE (F-1)
KITCHEN COUNTER GFI RECEPTACLES	20	13	14		HRV-1
KITCHEN COUNTER RECEPTACLES	20	15	16		WATER HEATER (DWH-3)
MICROWAVE RECEPTACLE	20	17	18		CRAWLSPACE SUMP PUMP (SP-3) **
FRIDGE RECEPTACLE		19	20	20	CRAWLSPACE HEATER * (EUH-1)
FREEZER RECEPTACLE		21	22		
UTILITY ROOM RECEPTACLES	AF	23	24	30	SANITARY LINE HEAT TRACE ***
WASHING MACHINE		25	26	GFI	
* EXTERIOR GFI RECEPACLES		27	28	30	WATER LINE HEAT TRACE ***
* EXTERIOR GFI RECEPACLES		29	30	GFI	
BEDROOM LIGHTS & FANS		31	32		SPARE
BATHROOM/UTILITY/KITCHEN LIGHTS		33	34		SPARE
LIVING/DINING ROOM LIGHTS		35	36		SPARE
* EXTERIOR LIGHTS		37	38		SPACE
* CRAWLSPACE LIGHTS		39	40		
GENERAL PURPOSE AND RADON RECEPTACLE	AF	41	42		

100A INTEGRAL MAIN BREAKER SERVICE ENTRANCE RATED 100A BUS — S/N

GND BUS

TO METER SOCKET

PROVIDE PULL BOX IN CRAWLSPACE FOR TRANSITION BETWEEN RIGID STEEL CONDUIT AND EMT CONDUIT

(3) #3 AWG RW90 & #6 AWG INSULATED Cu. BOND IN 35mm EMT THROUGH CRAWLSPACE TO PULL BOX.

* INDICATES CIRCUIT REQUIRED FOR PANEL 'A' AND PANEL 'C' ONLY.

** INDICATES CIRCUIT REQUIRED FOR PANEL 'A' ONLY.

*** INDICATES CIRCUIT REQUIRED FOR PANEL 'C' ONLY.

DRAWING PLOTTED:
AM 01, 1900
FILE NAME: 55073_E9.1_E9.2_housing_.dwg
DRAWING: E9.2

PWGSC – A1 – 841X594

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

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Client/client

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par
SBK

Designed by/Concept par
KAD / GTK

Drawn by/Dessine par
GTK

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

HOUSING UNIT PANEL SCHEMATIC / MOTOR EQUIPMENT SCHEDULE AND DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R-10-2017	E9.2	0

A000

1 - PLAN 1:500

EXISTING CONTOURS

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website: www.sepw.ca

PROFESSIONAL ENGINEER
C.K. REESE
MEMBER 14195
2018-10-22
SASKATCHEWAN

ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS OF SASKATCHEWAN
CERTIFICATE OF AUTHORIZATION
ASSOCIATED ENGINEERING (SASK.) LTD.
NUMBER C116
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CIVIL	09631	

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Client/client

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
TI

Drawn by/Dessine par
CA

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie

Client/client

Drawing title/Titre du dessin

EXISTING SITE PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
20174986-00	C1	0

PWGSC – A1 – 841X594

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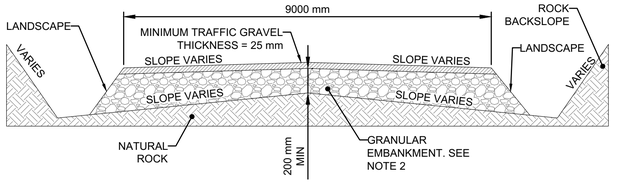
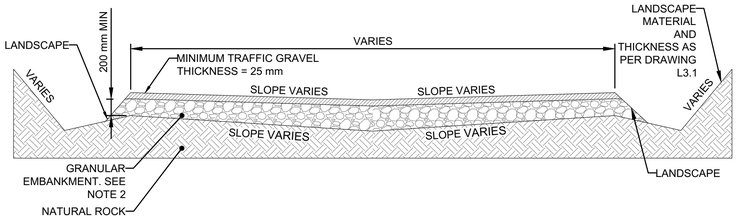
A000



CUT SECTION WITH NORMAL CROWN



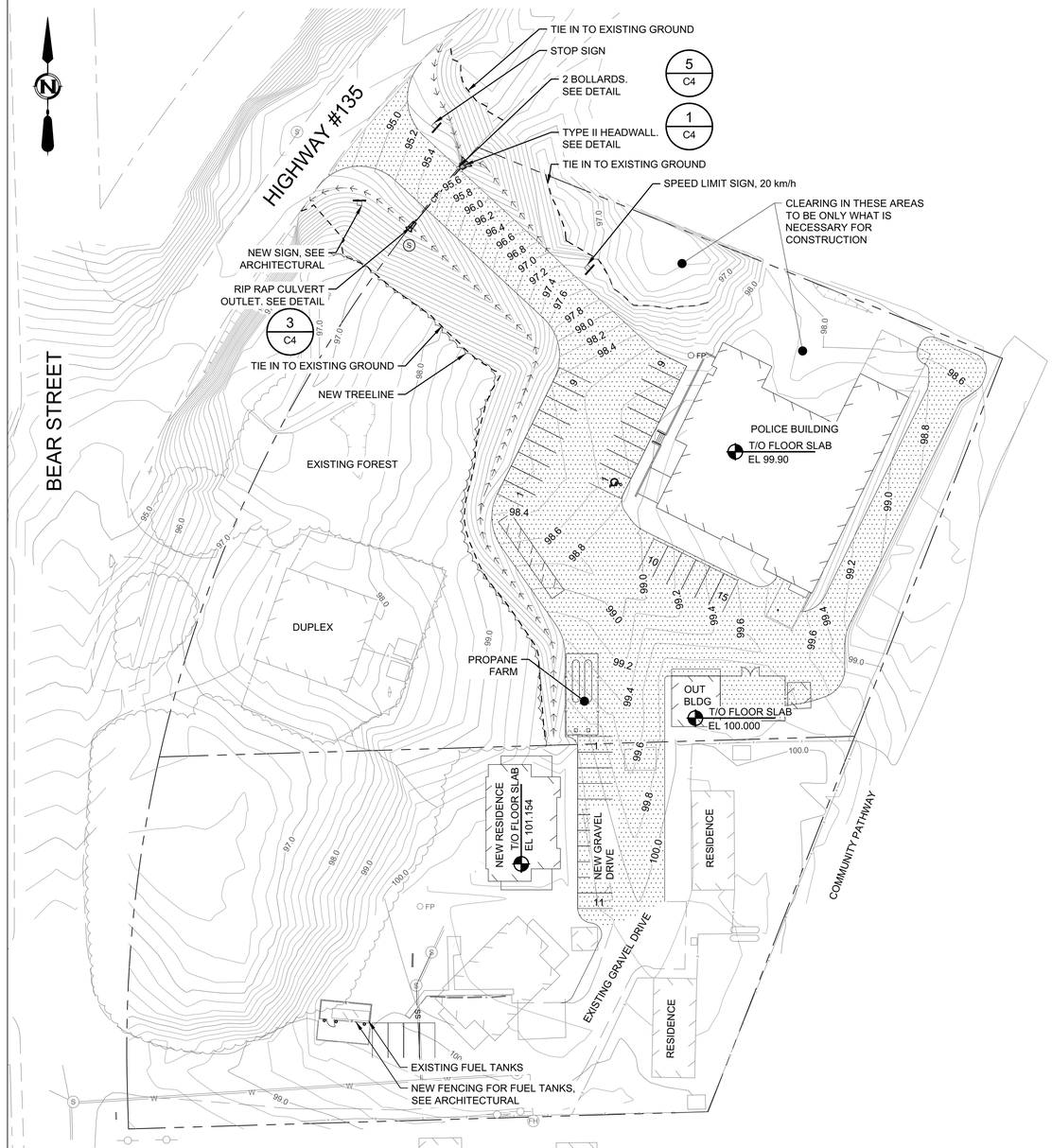
CUT SECTION WITH CENTRELINE DRAIN

1 / - SECTION NTS

ROCK SECTIONS

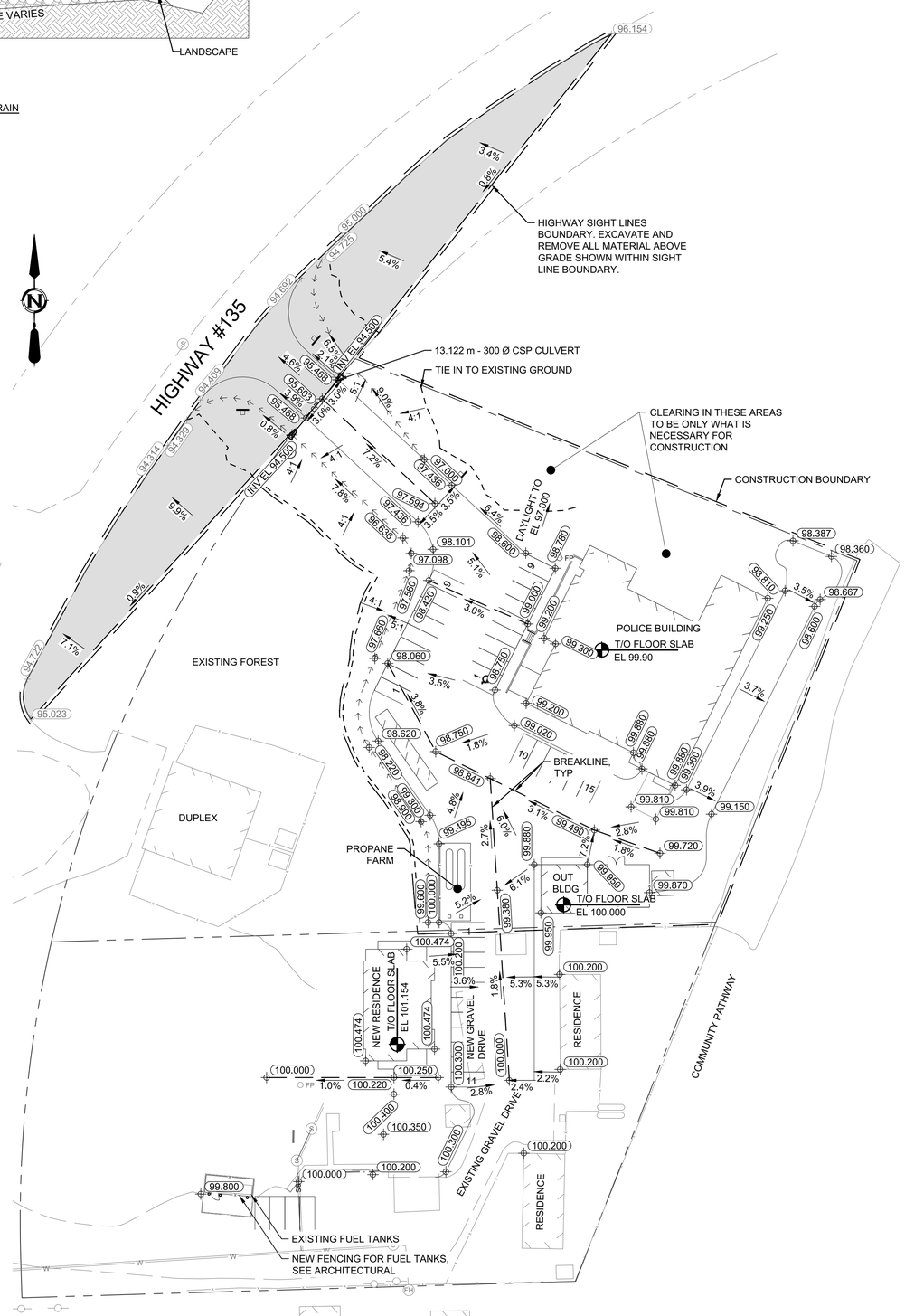
NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING SURFACE AND UNDERGROUND UTILITIES THAT MAY AFFECT THE WORK OR MAY BE DAMAGED DURING CONSTRUCTION. MEASUREMENT AND LOCATION OF THE EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE NOT GUARANTEED TO BE ACCURATE AND MUST BE CERTIFIED BY THE CONTRACTOR WITH THE UTILITY PRIOR TO PROCEEDING WITH CONSTRUCTION.
2. GRANULAR EMBANKMENT MATERIAL TO BE FREE DRAINING.
3. WHEN WORKING WITHIN THE HIGHWAY #135 TRAFFIC AREA, PLEASE REFER TO SASKATCHEWAN MHI CONSTRUCTION SPECIFICATIONS INCLUDED IN THE CONTRACT DOCUMENTS.



2 / - PLAN 1:500

FINISHED GRADE CONTOURS



3 / - PLAN 1:500

SITE GRADING

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NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
TI

Drawn by/Dessine par
CA

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

SITE GRADING PLAN, FINISHED GRADE CONTOURS AND SECTIONS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
20174986-00	C2	0

PWGSC – A1 – 841X594

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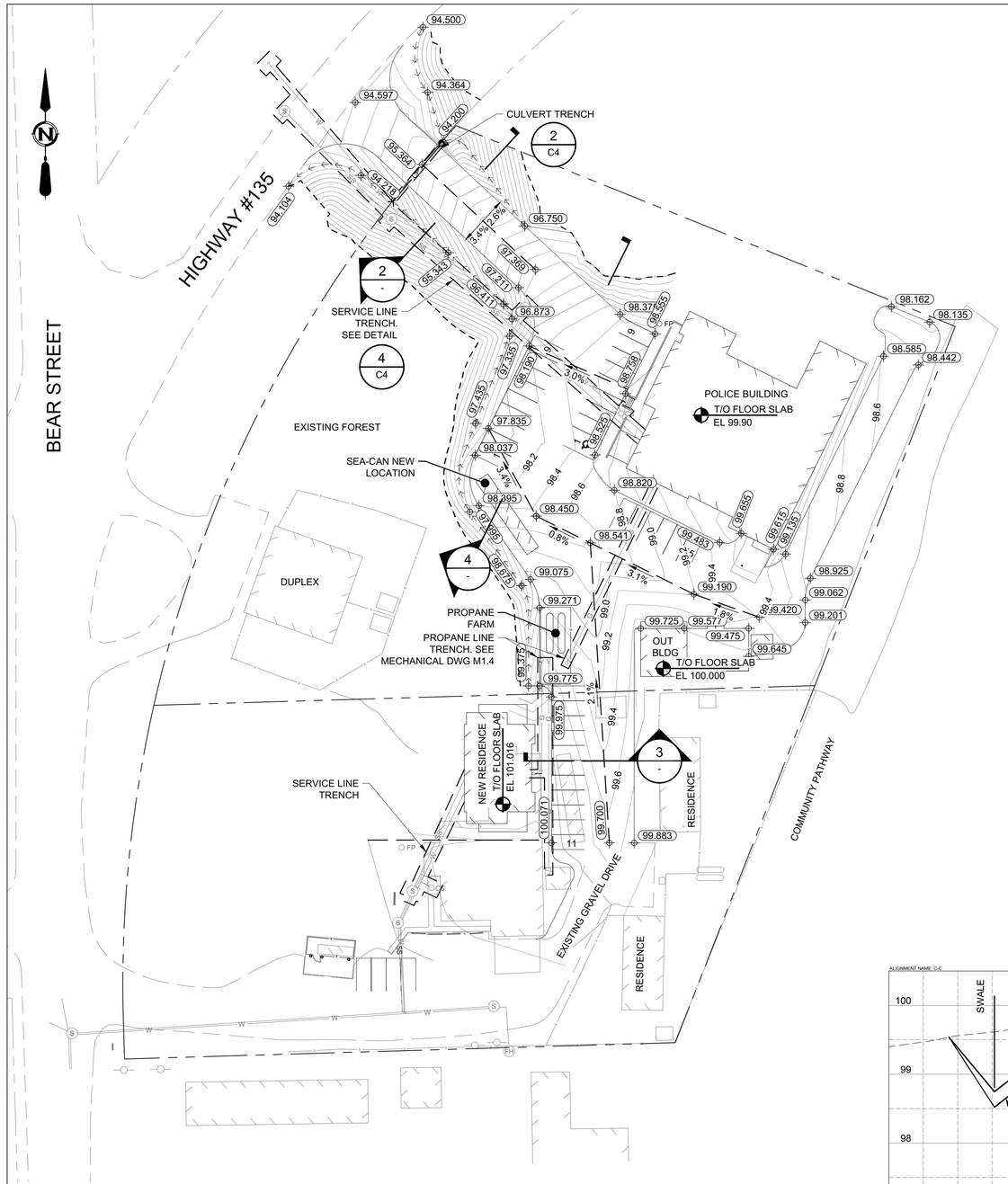
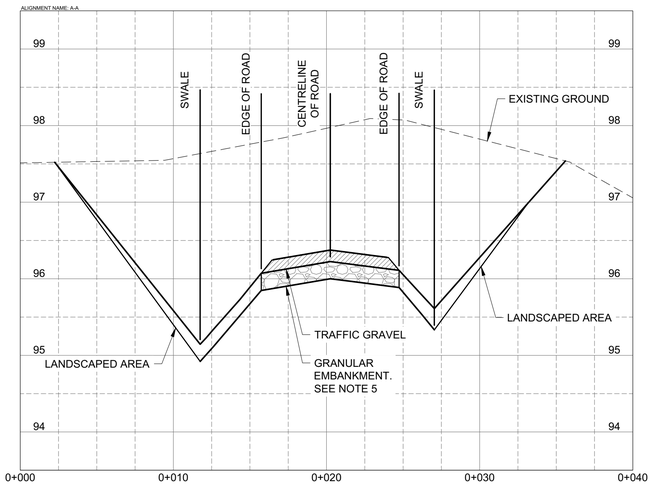
A000



1 - PLAN 1:500
ROCK SURFACE CONTOURS



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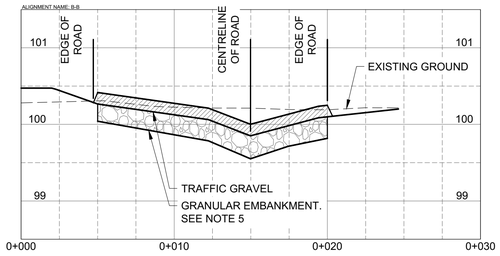
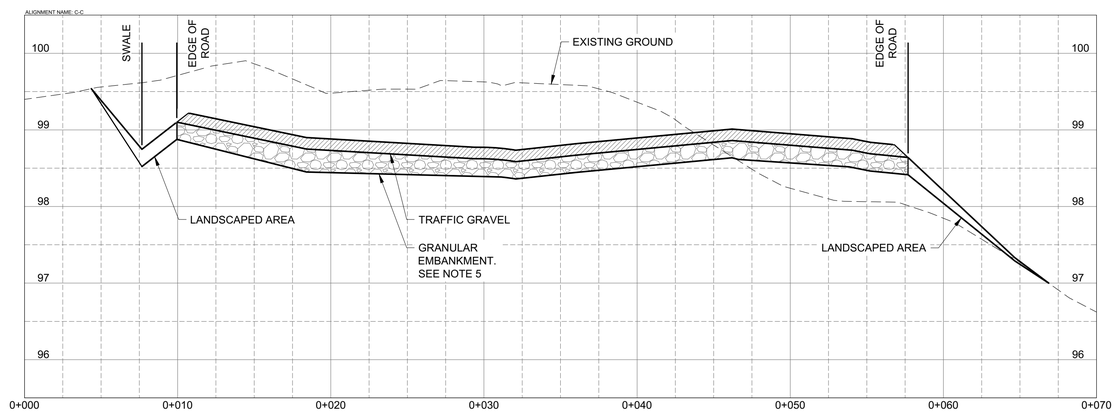


3 - SECTION H 1:200 V 1:40



4 - SECTION H 1:200 V 1:40

NOTES:

1. CONTRACTOR TO PROVIDE ADEQUATE DRAINAGE FOR ALL TRENCHES AND EXCAVATING, INCLUDING FIRE HYDRANT SUMPS, IF EXISTING TRENCH BOTTOM IS NOT PERMEABLE ENOUGH TO DRAIN.
2. ROCK BLASTING PLANS TO BE CONFIRMED WITH DEPARTMENTAL REPRESENTATIVE.
3. FINAL ROCK SURFACE TO BE APPROVED BY DEPARTMENTAL REPRESENTATIVE PRIOR TO BLASTING CONTRACTOR LEAVING SITE AND FURTHER WORK.
4. CONTRACTOR TO FOLLOW ALL STANDARDS, REGULATIONS AND CODES FOR PROPANE LINE TRENCH CONSTRUCTION.
5. GRANULAR EMBANKMENT MATERIAL TO BE FREE DRAINING.
6. UNDERGROUND UTILITIES BY OTHERS.

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Client/client

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
TI

Drawn by/Dessine par
CA

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

ROCK BLASTING SECTIONS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
20174986-00	C3	0

PWGSC – A1 – 841X594

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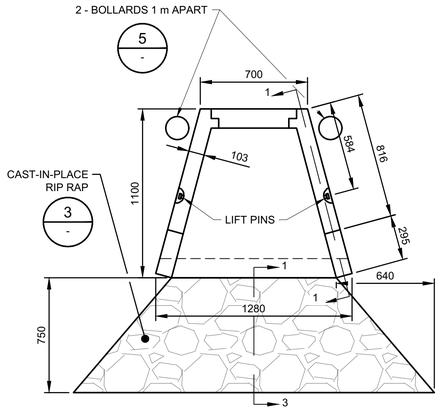
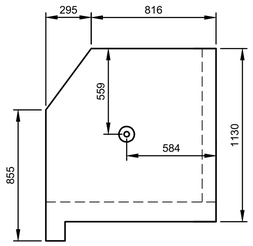
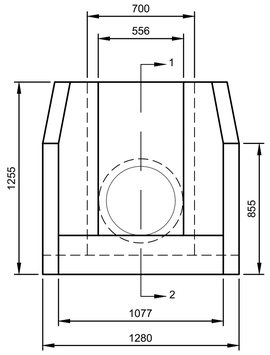


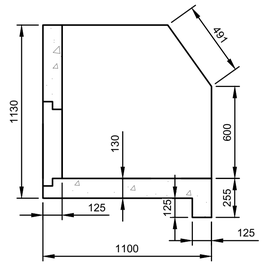
PLAN VIEW



SECTION 1-1



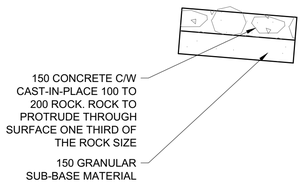
FRONT VIEW



SECTION 1-2

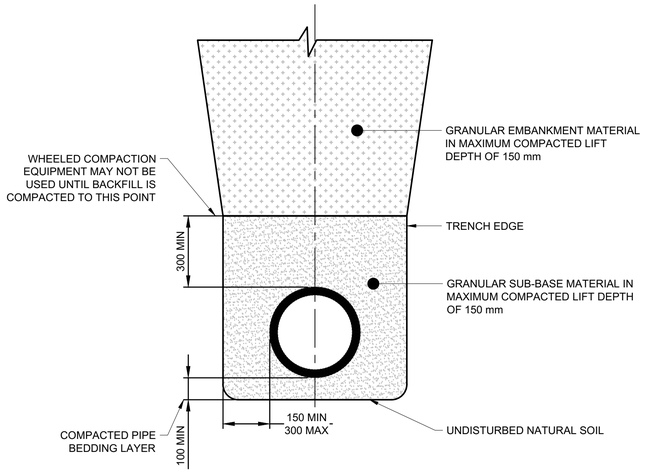
NOTES:

1. ALL DIMENSIONS ARE MILLIMETRES (mm) UNLESS OTHERWISE NOTED.
2. TYPE II HEADWALL FOR UP TO 450 Ø mm PIPE.
3. TWO 4T LIFT PINS PROVIDED AS SHOWN BOLT ON GALVANIZED GRILL AVAILABLE.
4. APRROXIMATE MASS: 1010 kg.



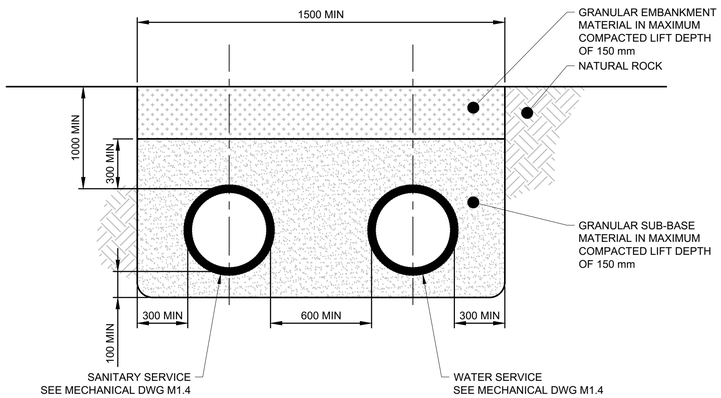
SECTION 1-3

1 - DETAIL 1:20
TYPE II HEADWALL AT INLET



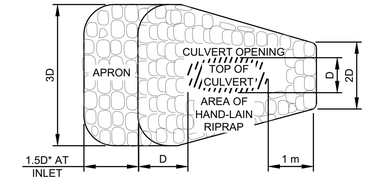
NOTE:
ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

2 - DETAIL NTS
CULVERT TRENCH



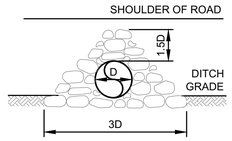
NOTE:
ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

4 - DETAIL NTS
SERVICE LINE TRENCH

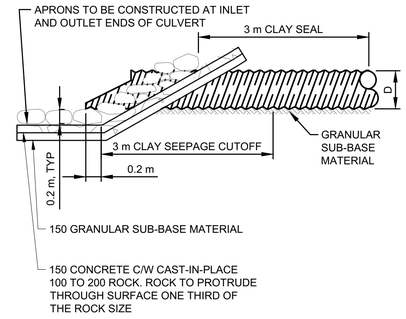


* THESE ARE TYPICAL MINIMUM DIMENSIONS

PLAN VIEW

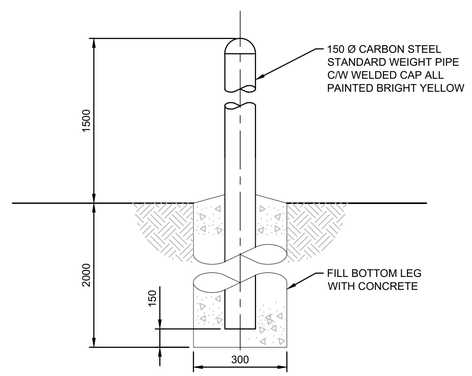


END VIEW



LONGITUDINAL VIEW

3 - DETAIL NTS
RIP RAP AT CULVERT AT OUTLET



5 - DETAIL NTS
BOLLARD

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PROFESSIONAL ENGINEER
C.K. REESE
MEMBER 14195
2018-10-22
SASKATCHEWAN

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Client/client

Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
TI

Drawn by/Dessine par
CA

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
20174986-00	C4	0

PWGSC – A1 – 841X594

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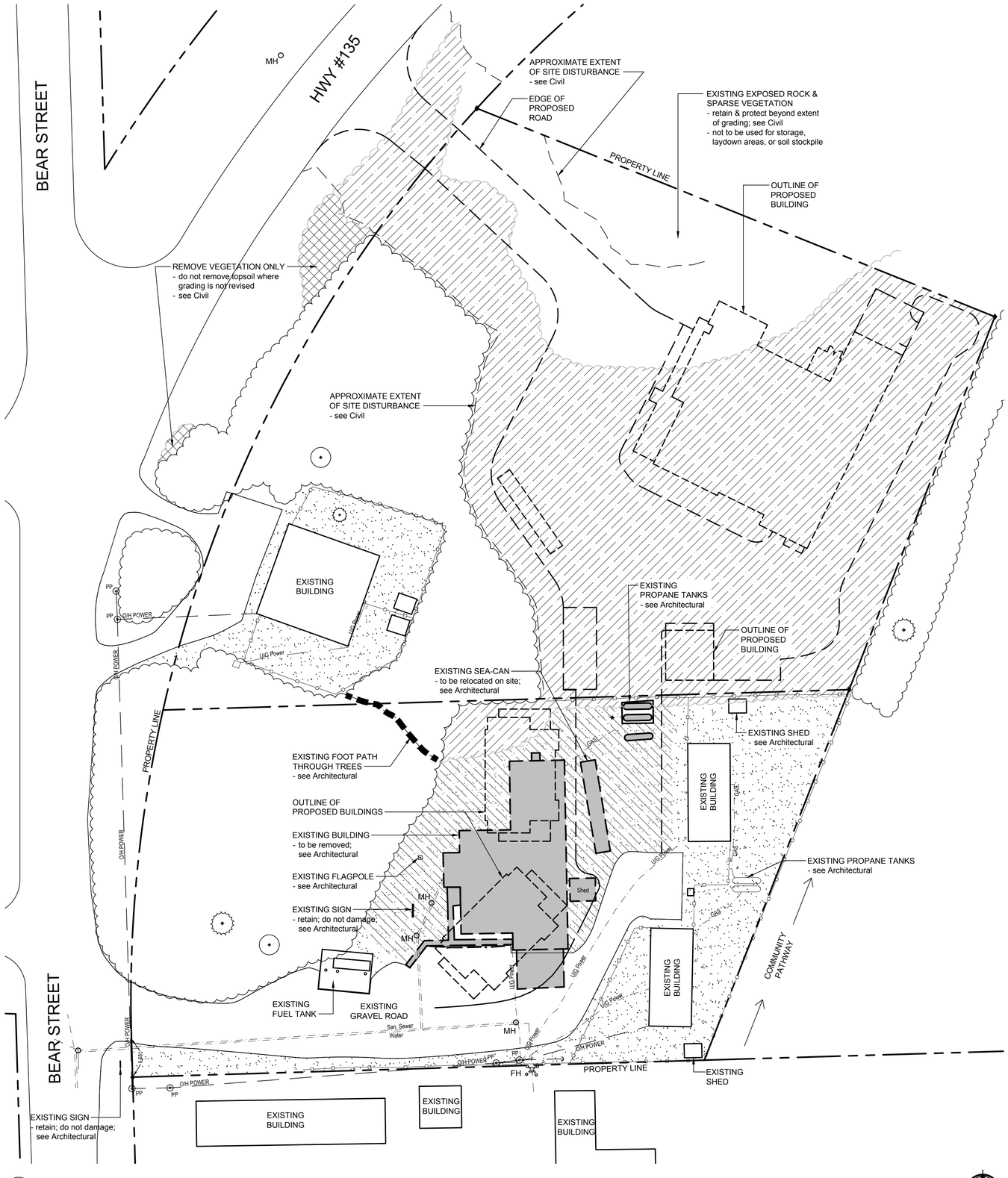

1 SITE PREPARATION & CLEARING
1:400

LEGEND

- GENERAL OUTLINE OF PROPOSED DEVELOPMENT
- EXISTING VEGETATION - to be retained & protected
- EXISTING VEGETATION - to be removed to full extent of grading; see Civil - retain topsoil; strip & stockpile for reuse on site
- EXISTING TURF - retain
- EXISTING TURF - to be removed - strip & stockpile topsoil; for reuse on site; coordinate stockpile location with Arch.
- EXISTING FENCE - retain - see Architectural
- EXISTING UNDERGROUND UTILITIES - see Civil
- EXISTING FIRE HYDRANT - see Mechanical

NOTES:

- EXISTING CONDITIONS FROM TOPOGRAPHICAL SURVEY TAKEN BY MERIDIAN SURVEYS LTD. DATED JULY 24, 2016.
- COORDINATE ALL REMOVALS, SOIL STRIPPING & STOCKPILING WITH CIVIL

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CROSBY HANNA & ASSOCIATES
407C 1st Ave. North
Saskatoon, SK S7K 1X5
www.crosbyhanna.ca
LANDSCAPE ARCHITECTURE COMMUNITY PLANNING
T (306) 665-3441
F (306) 652-9613

TENDER DOCUMENTS
DATE: 2018.10.19

The Saskatchewan Association of Landscape Architects
WILLIAM HRYCAN
2018-10-19
MEMBER

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Revision/ Revision	Description/Description	Date/Date
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Project title/Titre du projet

NEW POLICE BUILDING

PELICAN NARROWS, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par
WH

Drawn by/Dessine par
KS

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

SITE PREPARATION & CLEARING

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R-10-2017 (CHA 17059)	L1.1	0

PWGSC – A1 – 841X594

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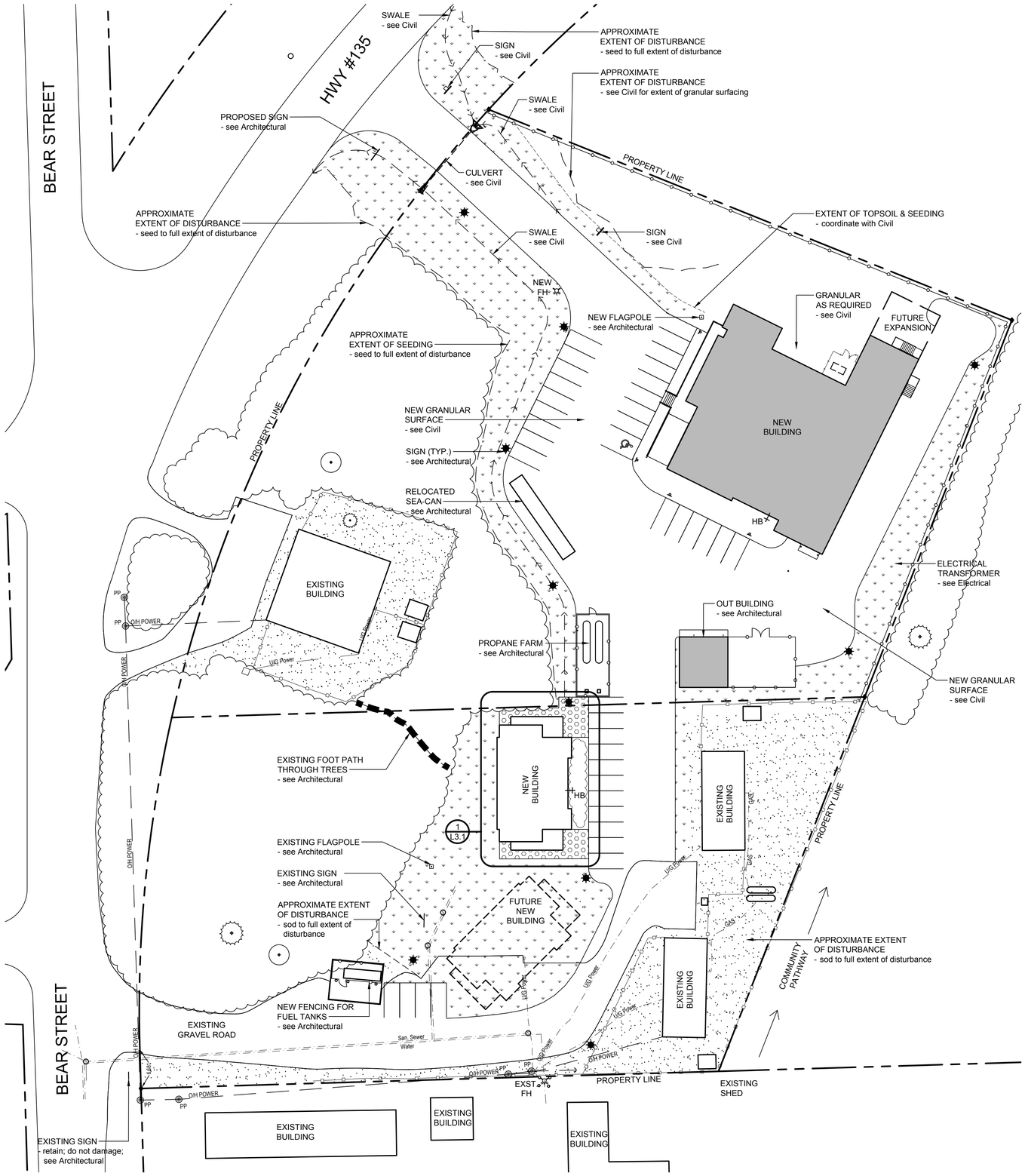
A000



1 LANDSCAPE LAYOUT
1:400

LEGEND

- EXISTING VEGETATION - retain; see L1.1
- EXISTING TURF - retain; see L1.1
- DRYLAND SEED & HYDROMULCH - see 2/L3.1
- NEW SHRUB PLANTING - see detail 3/L3.1
- CRUSHER DUST PATH - see detail 4/L3.1
- EXISTING FENCE - retain; - see Architectural
- PROPOSED FENCE - see Architectural
- EXISTING UNDERGROUND UTILITIES - see Civil
- FP — FLAGPOLE - see Architecture
- PROPOSED LIGHT STANDARD - see Electrical
- HB — HOSE BIB - see Mechanical
- FH — FIRE HYDRANT - see Mechanical

SEPW Architecture Inc.
109 - 3725 Pasqua Street, Regina, SK, S4S 6W8 ph: (306) 569-2255
102 - 3718 Kinnear Place, Saskatoon SK, S7P 0A6 ph: (306) 652-6457
website: www.sepw.ca

CROSBY HANNA & ASSOCIATES
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TENDER DOCUMENTS
DATE: 2018.10.19

The Saskatchewan Association of Landscape Architects
WILLIAM HRYCAN
2018-10-19
MEMBER

DO NOT SCALE DRAWINGS

Revision/ Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	18/10/19

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LANDSCAPE LAYOUT

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R-10-2017 (CHA 17059)	L2.1	0

PWGSC – A1 – 841X594

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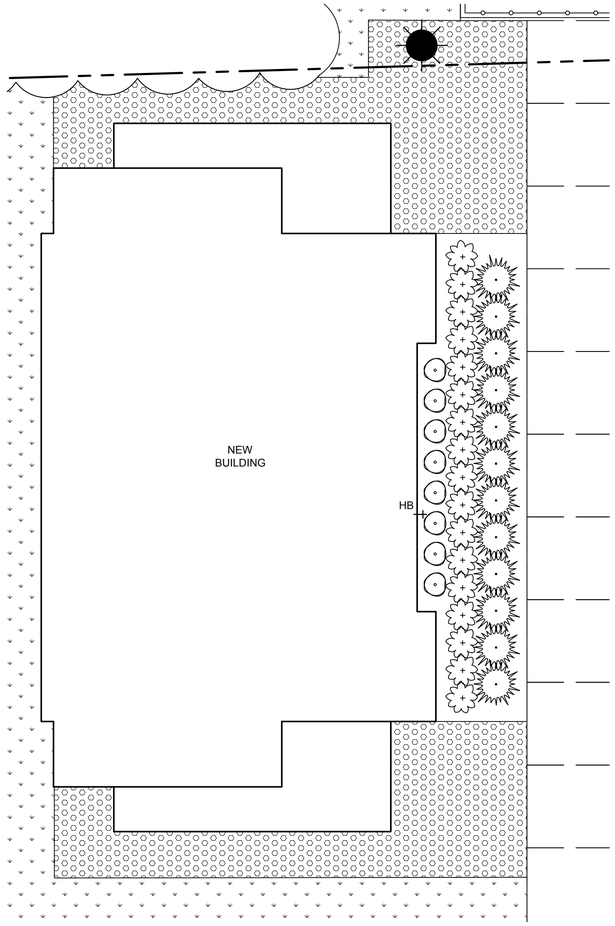
A000



1 DETAIL PLANTING - South Roadway Edge
1:100

LEGEND

CONIFEROUS SHRUBS

SKANDIA JUNIPER

DECIDUOUS SHRUBS

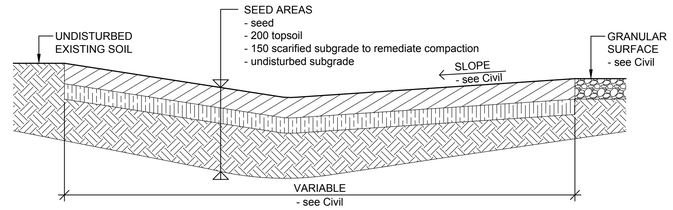
ABBOTSWOOD POTENTILLA

PERENNIALS

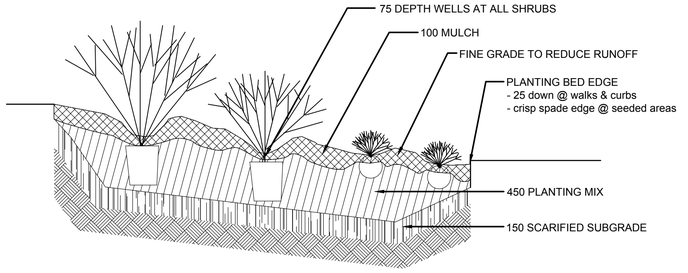
KARL FOERSTER
FEATHER REED GRASS

CRUSHER DUST PATH
- see detail 4/3.1

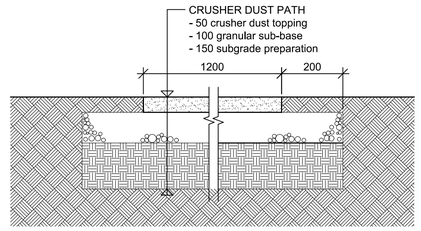
HB HOSE BIB
- see Mechanical



2 SEEDING / SODDING DETAIL
N.T.S.



3 PLANTING BED
N.T.S.



NOTE:
- CENTER CROWN OR CROSSFALL AT 3%,
AS APPROPRIATE FOR DRAINAGE PATTERNS

4 CRUSHER DUST PATH
N.T.S.

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LANDSCAPE DETAILS & DETAIL PLANTING

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R-10-2017 (CHA 17059)	L3.1	0

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