Government of Canada / Gouvernement du Canada

Canada

WABASCA / DESMARAIS GOVERNMENT BUILDING

CODE SUMMARY:

CODE REVIEW, BASED ON 2015 NATIONAL BUILDING CODE

BUILDING DESCRIPTION:

a) BUILDING HEIGHT:	ONE STORY, NO BASEMENT
b) MAIN FLOOR AREA (FOOTPRINT):	1143 m² SQUARE METRES
c) OUT BUILDING (FOOTPRINT):	68 m² SQUARE METRES

OCCUPANCY CLASSIFICATION:

a) MAJOR OCCUPANCY:	GROUP B, DIVISION 1: MAIN BUILDING
b) MAJOR OCCUPANCY:	GROUP F, DIVISION 3: OUT BUILDING

BUILDING SIZE AND OCCUPANCY REQUIREMENTS:

GROUP B, DIVISION 1, ONE STOREY, SPRINKLERED:
a) SPRINKLERED THROUGHOUT
b) NOT MORE THAN 3 STOREYS IN BUILDING HEIGHT
c) A BUILDING AREA OF NOT LIMITED IF THE BUILDING IS NOT MORE THAN 1 STOREY
d) SHALL BE OF NONCOMBUSTIBLE CONSTRUCTION
e) EVERY BUILDING MUST FACE A STREET.
f) AN ACCESS ROUTE IS PERMITTED TO BE CONSIDERED A STREET. CURRENTLY FACING 1 ACCESS ROUTE

GROUP F, DIVISION 3, ONE STOREY (OUT BUILDING):
a) NONCOMBUSTIBLE CONSTRUCTION;
b) NOT MORE THAN 1 STOREY IN BUILDING HEIGHT AND THE BUILDING AREA IS NOT MORE THAN 5600m²
FACING ONE ACESS ROUTE TREATED AS A STREET

BUILDING OCCUPANCIES B1 AND F3 EXCEED LIMITING DISTANCE REQUIREMENTS

INTERNAL FIRE SEPARATION REQUIREMENTS:

a) CONTAINED USE AREA (DETENTION):	2 HOUR FROM THE REMAINDER OF THE BUILDING	(3.1.3.1.1)
b) JANITOR ROOM:	NO RATING (SMOKE SEPARATION)	(3.3.1.21.(3))
c) STORAGE ROOM:	1 HOUR	(3.3.1.26)
d) SERVICE ROOM CONTAINING FUEL FIRED APPLIANCES:	1 HOUR	(3.6.2.1.(1))
e) ELECTRICAL ROOM:	1 HOUR	

ISSUED FOR TENDER
SEPTEMBER 12, 2017

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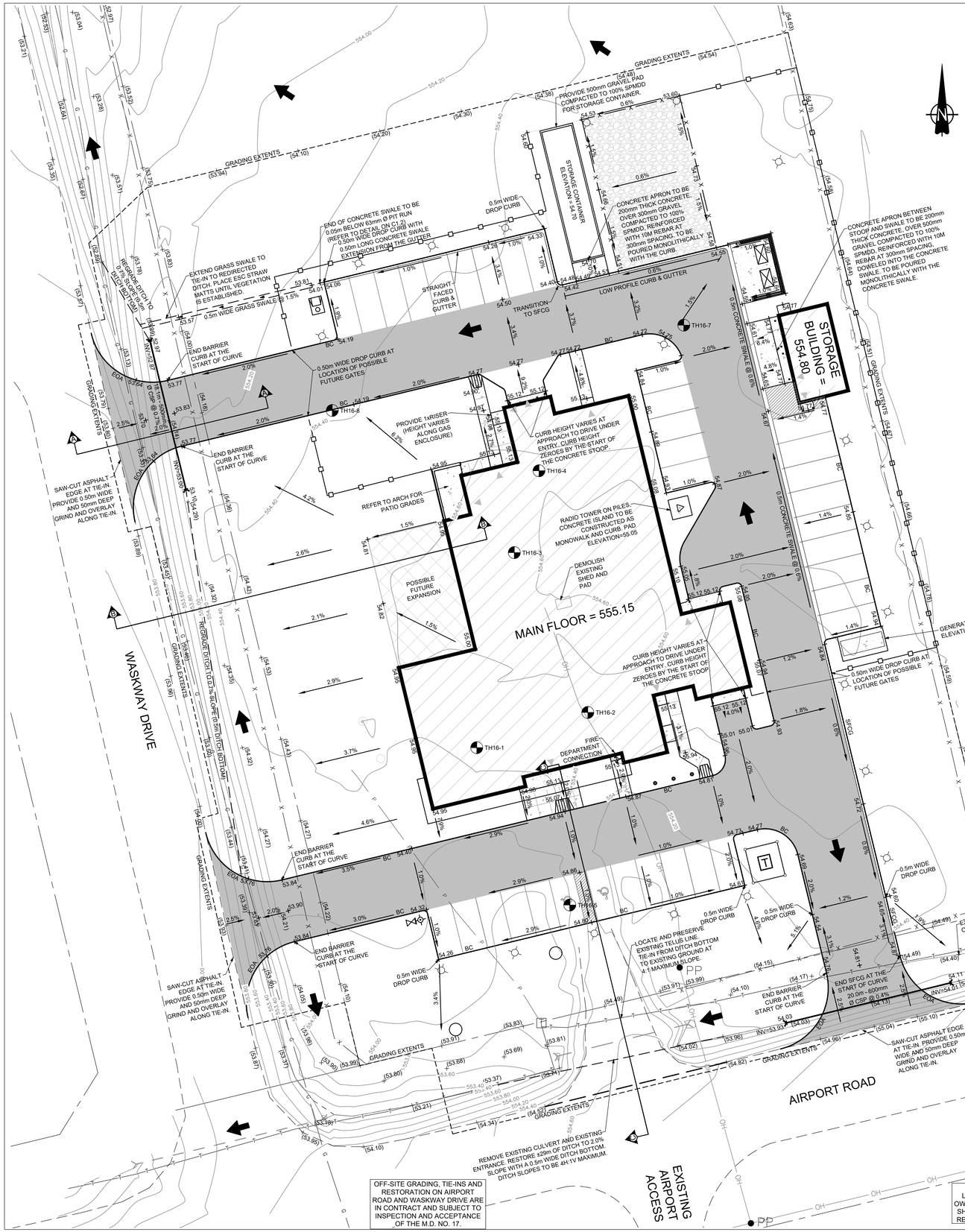
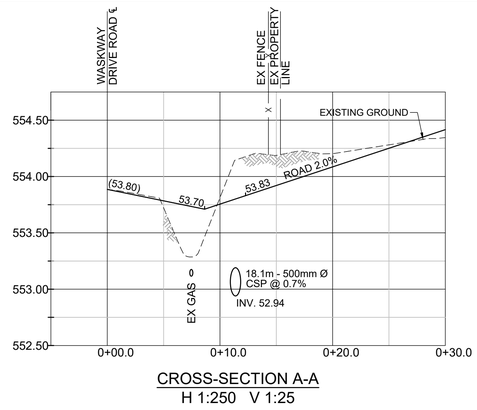
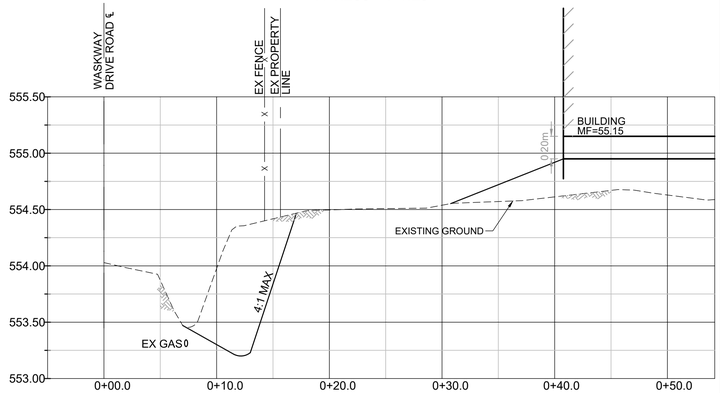




CROSS-SECTION A-A
H 1:250 V 1:25



CROSS-SECTION B-B
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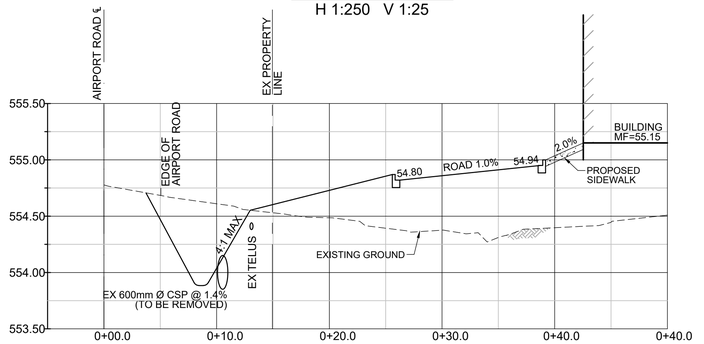

CROSS-SECTION C-C
H 1:250 V 1:25

GRADING REQUIREMENTS
1. ENSURE THAT UNSUITABLE MATERIALS & TOPSOIL, INCLUDING WEEDS, HAVE BEEN REMOVED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER. ALL SUCH REMAINING MATERIALS SHALL BE DISPOSED OFF-SITE PRIOR TO INITIATING FURTHER EARTHWORKS. THIS INCLUDES THE EXISTING GRAVEL PAD AND LANEWAY IN THE SITE.
2. THE GEOTECHNICAL ENGINEER SHALL APPROVE THE SUBGRADE PRIOR TO PLACEMENT OF ANY FILL MATERIALS.
3. IMPORTED CLAY AND FILL MATERIALS MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER.
4. GENERAL FILL UNDER PAVED ROADWAYS AND SIDEWALKS SHALL BE COMPACTED IN 150mm LIFTS TO A MINIMUM OF 98% S.P.D. WITHIN 2% OF OPTIMUM MOISTURE CONTENT.
5. GENERAL FILL UNDER LANDSCAPE AREAS SHALL BE COMPACTED IN 150mm LIFTS TO A MINIMUM OF 95% S.P.D. WITHIN 2% OF OPTIMUM MOISTURE CONTENT.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE IMPORT OF SUITABLE FILL MATERIALS, IF NECESSARY, AND DISPOSAL OF EXCESS MATERIALS OFF-SITE.
7. BASED ON SURVEY CONDUCTED BY HAMILTON AND OLSEN SURVEYS, ON SEPTEMBER 29, 2016. ELEVATIONS ARE DERIVED FROM ASCM 819805.
8. ALL GRADES ARE TO THE LIP OF GUTTER FOR ALL CONCRETE SWALES, STRAIGHT FACED CURB & GUTTER, AND LOW PROFILE CURB & GUTTER. ALL GRADES ON THE PLAN FOR BARRIER CURB ARE TO THE FACE OF CURB/FINISHED ASPHALT.

SIDEWALK NOTES:
1. REINFORCING REQUIREMENTS FOR CONCRETE SIDEWALKS SHALL CONSIST OF 10M REBAR, 750 O.C. FOR SIDEWALKS UP TO 2.0m WIDE. FOR LARGER SIDEWALK AND ENTRY AREAS REINFORCING SHALL INCREASE TO 10M REBAR, 300 O.C. E/W
2. UNLESS OTHERWISE NOTED, ALL CONCRETE SIDEWALKS ARE TO CROSSFALL 2.0% AWAY FROM THE BUILDING.
3. CONCRETE SIDEWALKS AND LARGE CONCRETE PLAZAS SHALL CONSIST OF 125mm DEPTH OF CONCRETE ON 100mm DEPTH OF 3-20A CRUSHED GRAVEL AND 150mm DEPTH OF COMPACTED SUBGRADE.
4. ALL STRUCTURAL STOOPS GRADED PER CIVIL.
5. SAWCUTS AND CONCRETE FINISHES FOR LARGE CONCRETE PLAZAS TO BE CONSTRUCTED PER ARCHITECTURAL DRAWINGS.
6. ALL MONOWALK WITH CURB TO BE POURED MONOLITHICALLY.

ROAD STRUCTURE:

AREA	MATERIAL	DEPTH	COMPACTION
HEAVY DUTY PAVEMENT*	Asphalt Concrete Pavement (ACP)	100mm	94% M.T.D.
	Crushed Gravel Base Course (20mm)	600mm	100% S.P.M.D.D.
	Geofabric & Geogrid	N/A	N/A
LIGHT DUTY PAVEMENT*	Asphalt Concrete Pavement (ACP)	75mm	94% M.T.D.
	Crushed Gravel Base Course (20mm)	550mm	100% S.P.M.D.D.
	Geofabric & Geogrid	N/A	N/A
LIGHT DUTY GRAVEL**	Crushed Gravel Base Course (20mm)	800mm	100% S.P.M.D.D.
	Geofabric & Geogrid	N/A	N/A

ROAD STRUCTURE NOTES:
1. *PER THURBER ENGINEERING REPORT "DETACHMENT BUILDING, WABASCA-DEMARAIS" DATED NOVEMBER 29, 2016.
2. **THE LIGHT DUTY GRAVEL STRUCTURE IS BASED ON THURBER'S LIGHT DUTY PAVEMENT STRUCTURE AND CONVERTED ACCORDING TO AASHTO STRUCTURAL LAYER COEFFICIENTS.
3. THE SUBGRADE LAYER HAS BEEN REPLACED WITH A REPLACEMENT DEPTH OF GRAVEL, PER THE THURBER ENGINEERING REPORT. THE SUBGRADE MUST ONLY BE SHAPED AND LIGHTLY COMPACTED.
4. GEOFABRIC GEOTEXTILE TO BE NON-WOVEN, NILEX 4551, OR LAYFIELD LP6, OR APPROVED EQUIVALENT.
5. GEOGRID TO BE TENSAR BX1100, OR LAYFIELD G'RID 2020, OR APPROVED EQUIVALENT.

OFF-SITE GRADING, TIE-INS AND RESTORATION ON AIRPORT ROAD AND WASKWAY DRIVE ARE IN CONTRACT AND SUBJECT TO INSPECTION AND ACCEPTANCE OF THE M.D. NO. 17.

LOCATION OF UTILITIES IS APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY CONTACTING THE OWNER OF THE UTILITY CONCERNED. THE CONTRACTOR SHALL PROVE THE LOCATION OF THE UTILITIES AND BE RESPONSIBLE FOR THEIR PROTECTION FROM DAMAGE.

ALL ON SITE GRADING WORK TO BE CONTAINED AND THE OWNER/DEVELOPER MUST CONFORM TO THE EROSION AND SEDIMENTATION CONTROL MANUAL PER SPECIFICATION 31 25 00 *EROSION AND SEDIMENTATION CONTROL*.

ROOF DRAINS TO BE CONNECTED TO THE STORM SEWER.

SCALE: 1:250 (5 0 5 10 15)

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

Notes:
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LEGEND:

PROPOSED		EXISTING
BC	BARRIER CURB	
SFCG	STRAIGHT FACE CURB & GUTTER	
	PROPERTY LINE	
	EASEMENT	
x	FENCE	x x x
	OVERHEAD POWER	OH
	WATER VALVE	
	FIRE HYDRANT	
	MANHOLE	
	STREET LIGHT	
	POWER POLE	PP
	BUILDING ENTRANCE	
2.0%	MINOR DRAINAGE	
+48.27	DESIGN ELEVATION	+(05.15)
	MAJOR DRAINAGE	
	ORIGINAL GROUND CONTOURS	712.70
T	TRANSFORMER	T
	BOREHOLE LOCATION	TH16-1

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Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	APRIL 28, 17	TAZ
2	ISSUED FOR INTERNAL REVIEW	JULY 20, 17	TAZ
3	ISSUED FOR 95% REVIEW	AUG 8, 17	TAZ
4	ISSUED FOR TENDER	SEPT. 12, 17	TAZ

Seal

PERMIT TO PRACTICE
AL-TERRA ENGINEERING LTD.
Signature
Date SEPT. 12, 2017
PERMIT NUMBER: P 2104
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

Client

Government of Canada / Gouvernement du Canada
Canada

Project

WABASCA / DESMARAIS
GOVERNMENT BUILDING

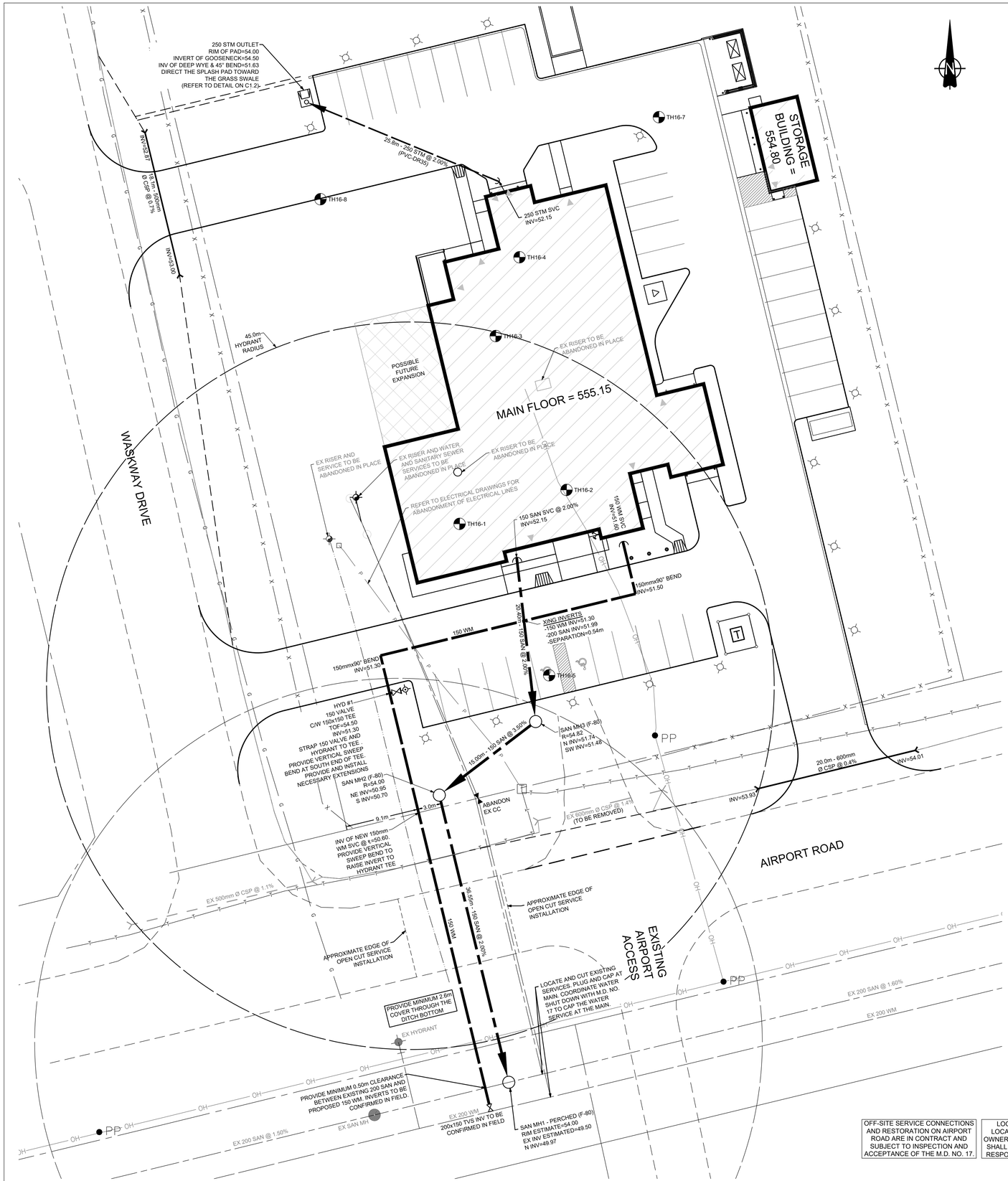
Scale	1:250	Designed By	TAZ
Project No.	8141	Drawn By	TAZ
Date	MARCH 2017	Checked By	GWT

Drawing Title

GRADING & DRAINAGE PLAN

Drawing No.

C1.0



UNDERGROUND SERVICING NOTES:

GENERAL

1. ALL ONSITE MATERIALS AND WORKMANSHIP IN ACCORDANCE WITH PLUMBING CODE. CONTRACTOR RESPONSIBLE FOR NOTIFYING ENGINEER OF NON-COMPLYING DESIGN ELEMENTS. ALL MATERIALS AND INSTALLATION SHALL ALSO MEET THE REQUIREMENTS OF THE M.D. NO. 17.
2. CONTRACTOR TO VERIFY INVERT ELEVATIONS OF EXISTING SERVICE STUBS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO INSTALLATION OF UNDERGROUND UTILITIES.

BEDDING AND BACKFILL

1. CLASS 'B' BEDDING REQUIRED THROUGHOUT.
2. ALL BACKFILL TO BE COMPACTED TO 98% OF STANDARD PROCTER DENSITY IN LIFTS NOT EXCEEDING 200mm LOOSE THICKNESS.
3. ENSURE PROPER COMPACTION AROUND MH'S, CB'S AND VALVES.
4. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. ALL EXISTING UTILITIES MUST BE LOCATED PRIOR TO COMMENCEMENT OF WORK. VARIANCE IN LOCATION IS TO BE REPORTED TO THE SITE ENGINEER A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION.

SEWER

1. ALL PIPE AND FITTINGS TO BE PSM TYPE PVC, DR35, TO SPECIFICATION S3034 AND CSA B182.1 AND B182.2, OR OPEN PROFILE PVC PIPE CONFORMING TO ASTM F794 AND CSA B182.4 WITH A MINIMUM STIFFNESS OF 320 kPa.
2. MANHOLES TO BE 1200mm. USE RUBBER GASKETS IN JOINTS.
3. ALL MANHOLES AND MISC. CONCRETE TO BE TYPE 5 SULPHATE RESISTANT.
4. MH AND CB FRAMES AND COVERS TO BE CAST IRON TO SPECIFICATION FOR GRAY IRON CASTINGS (ASTM A48 CLASS 20).
5. ENSURE PIPE CONNECTIONS TO MANHOLES ARE WATER TIGHT.
6. USE SWEEP BENDS FOR ALL DIRECTION CHANGES.
7. USE SANDBAGS FILLED WITH 1:10 MIX OF CEMENT AND SAND FOR PIPE SUPPORT AT CROSSINGS.
8. ALL MH'S TO BE PRE-BENCHED TO PIPE SPRINGLINE OR BENCHED IN PLACE.
9. REFER TO DETAIL "TYPICAL APPROACH" FOR CULVERT REQUIREMENTS.

SERVICES

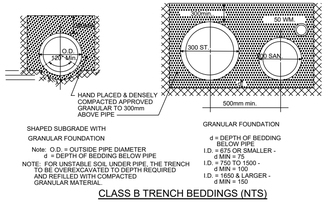
1. CONFIRM EXACT LOCATION OF SERVICE ENTRY TO BUILDING PRIOR TO CONSTRUCTION. PLUG 1.0m FROM BUILDING OR CONNECT TO BUILDING SERVICE, AS REQUIRED.
2. ENDS OF PIPE TO BE PAINTED: RED - SANITARY, GREEN - STORM.
3. CONTRACTOR TO INSTALL A MIN 1.2m LENGTH OF 2x4 TO MARK PLUG LOCATIONS.

WATER

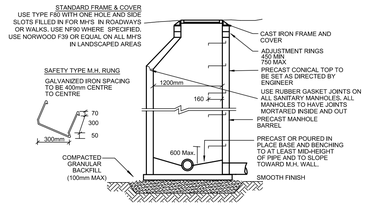
1. ALL WATERMAIN TO BE PVC-C900 CLASS 1035 TO CSA B137.3.
2. ALL WATERMAIN FITTINGS TO BE PVC "CENTURION" TO CSA B137.3.
3. A POTABLE WATER TEST IS REQUIRED PRIOR TO OCCUPANCY.
4. ALL METALLIC FITTINGS REQUIRE CATHODIC PROTECTION.
5. CONTRACTOR IS RESPONSIBLE TO CONTACT THE M.D. NO. 17 PRIOR TO FLUSHING ONSITE WATER SYSTEM. BOUNDARY VALVES WITHIN MUNICIPAL R.O.W. ONLY TO BE OPERATED BY THE EMPLOYEES OF M.D. NO. 17.

OPEN CUT SERVICE INSTALLATION ON AIRPORT ROAD

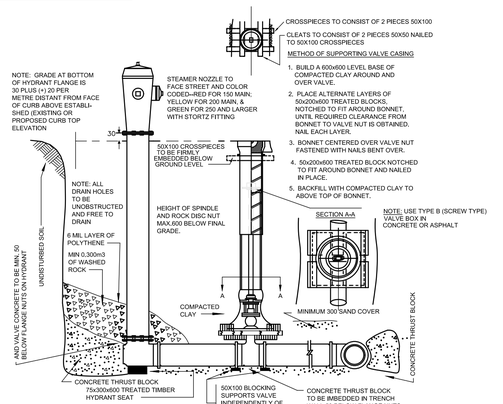
1. NEW SERVICES ARE REQUIRED TO THE SITE. SERVICES SHALL BE OPEN CUT WITH STANDARD TRENCHING PRACTICES. BACKFILL THROUGH FULL DEPTH OF THE INSTALLATION SHALL BE TO 98% S.P.D.
2. COORDINATE THE CLOSURE OF AIRPORT ROAD WITH THE M.D. NO. 17.
3. RESTORE EXISTING PAVEMENT STRUCTURE TO SATISFACTION OF M.D. NO. 17.
4. CONTRACTOR SHALL ASSUME THE FOLLOWING PAVEMENT STRUCTURE. EXISTING STRUCTURE TO BE CONFIRMED IN FIELD.
   - 4.1. 120mm ACP (PLACED TO 98% M.D.), PLACE A PRIME COAT ON THE ENTIRE GRAVEL SURFACE IMMEDIATELY PRIOR TO PAVING.
   - 4.2. 300mm CRUSHED GRAVEL BASE COURSE (20mm - PLACED TO 100% S.P.M.D.D.).
   - 4.3. GEOFABRIC & GEOGRID, PER C1.0.
   - 4.4. 150mm PREPARED SUBGRADE (PLACED TO 98% S.P.D.)



CLASS B TRENCH BEDDINGS (NTS)

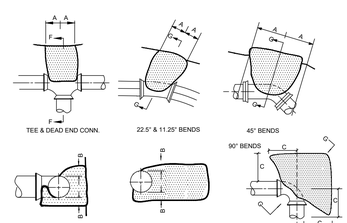


STANDARD MANHOLE (600 SUMP FOR CBMH)



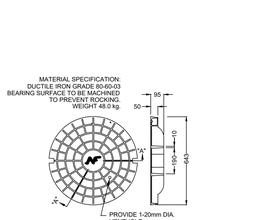
TYPICAL HYDRANT & VALVE CONNECTIONS DETAILS

ENSURE HYDRANT IS PAINTED RED (PRIVATE) AND IS EQUIPPED WITH A 5" STORZ FITTING.



	TEE		22.5° & 11.25° BENDS		45° BENDS		90° BENDS	
DIA.	200	150	200	150	200	150	200	150
A	550	375	200	150	375	300		
B	75	75	100	75	100	75	300	200
C							350	300
Area m2	.475	.275	0.200	0.150	0.375	0.225	0.700	0.375

HORIZONTAL CONCRETE THRUST BLOCK



F-80 ONE HOLE FRAME AND COVER

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ROOF DRAINS TO BE CONNECTED TO THE STORM SEWER.

SCALE: 1:250

5 0 5 10 15

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

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LEGEND:

PROPOSED		EXISTING
	PROPERTY LINE	
	EASEMENT	
P	POWER	P
	OVERHEAD POWER	OH
G	GAS	G
	STM	
	SAN	
	WM	
	WATER VALVE	
	FIRE HYDRANT	
	MANHOLE	
	STREET LIGHT	
	POWER POLE	PP
	BUILDING ENTRANCE	
T	TRANSFORMER	T
	BOREHOLE LOCATION	TH16-1

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Issues/Revisions

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2	ISSUED FOR INTERNAL REVIEW	JULY 20, 17	TAZ
3	ISSUED FOR 95% REVIEW	AUG 8, 17	TAZ
4	ISSUED FOR TENDER	SEPT. 12, 17	TAZ

Seal

PERMIT TO PRACTICE
AL-TERRA ENGINEERING LTD.
Signature
Date SEPT. 12, 2017
PERMIT NUMBER: P 2104
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

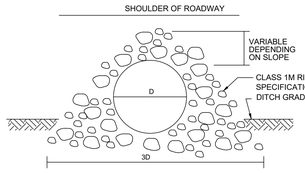
Scale	1:250	Designed By	TAZ
Project No.	8141	Drawn By	TAZ
Date	MARCH 2017	Checked By	GWT

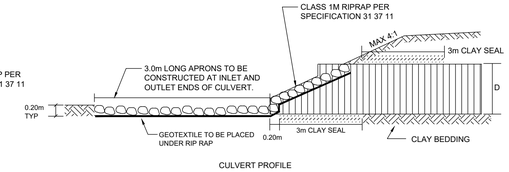
Drawing Title

UNDERGROUND SERVICING PLAN

Drawing No.

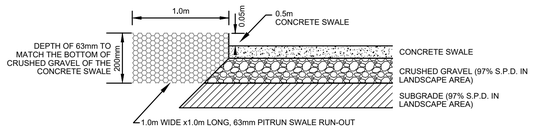
C1.1





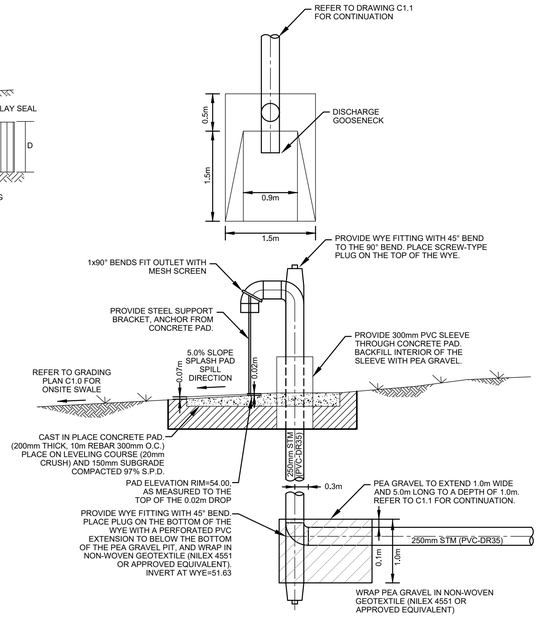
CULVERT END TREATMENT RIPRAP

SCALE: N.T.S.



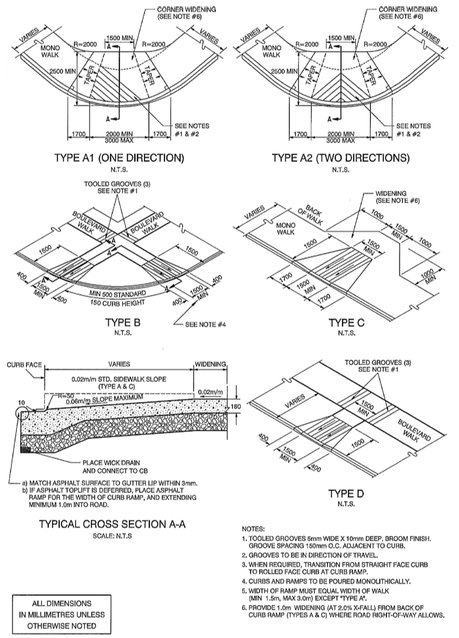
PITRUN SWALE RUN-OUT

SCALE: N.T.S.



250mm STORM SERVICE OUTLET

SCALE: N.T.S.



ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED

NOTES:
1. TOOLED GROOVES 6mm WIDE X 10mm DEEP, BROOM FINISH. GROOVE SPACING 150mm O.C. ADJACENT TO CURB.
2. GROOVES TO BE IN DIRECTION OF TRAVEL.
3. WHEN REQUIRED, TRANSITION FROM STRAIGHT FACE CURB TO ROLLED FACE CURB AT CURB RAMP.
4. CURBS AND RAMPS TO BE POURED MONOLITHICALLY.
5. WIDTH OF RAMP MUST EQUAL WIDTH OF WALK (MIN 1.5m, MAX 3.0m) EXCEPT TYPE A1.
6. PROVIDE 1.0m WIDENING (AT 2.0% X-FALL) FROM BACK OF CURB RAMP (TYPES A & C) WHERE ROAD RIGHT-OF-WAY ALLOWS.

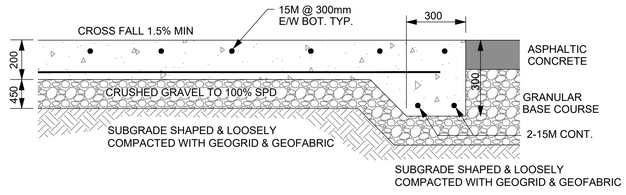
TYPICAL CURB RAMPS

SCALE: N.T.S.

TYPICAL APPROACH

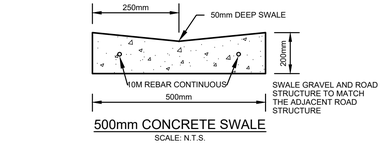
SCALE: N.T.S

CONSTRUCT PAD WITH 300mm WIDE & 200mm HIGH CURB



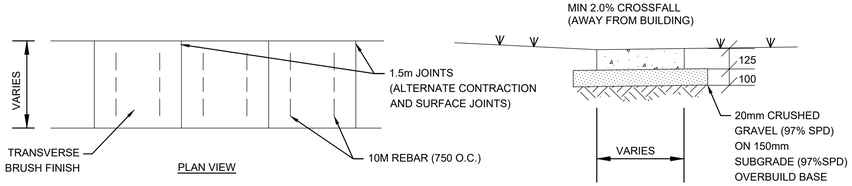
TYPICAL GARBAGE PAD DETAIL

SCALE: N.T.S



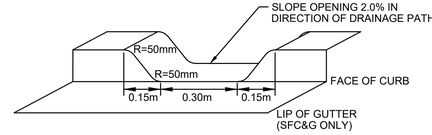
500mm CONCRETE SWALE

SCALE: N.T.S.



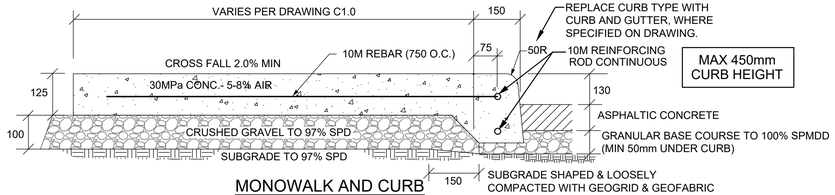
CONCRETE WALKWAY (WIDTH VARIES)

SCALE: N.T.S



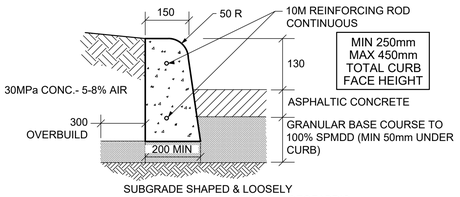
TYPICAL CURB CUT

SCALE: N.T.S.



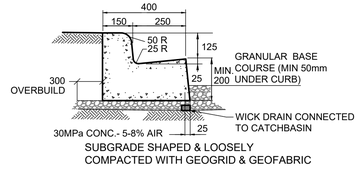
MONOWALK AND CURB

SCALE: N.T.S



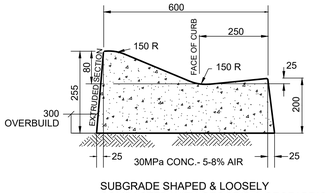
BARRIER CURB (BC)

SCALE: N.T.S



STRAIGHT FACE CURB & GUTTER (SFCG)

SCALE: N.T.S



LOW PROFILE CURB & GUTTER

SCALE: N.T.S

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

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Al-Terra

Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	APRIL 28, 17	TAZ
2	ISSUED FOR INTERNAL REVIEW	JULY 20, 17	TAZ
3	ISSUED FOR 95% REVIEW	AUG 8, 17	TAZ
4	ISSUED FOR TENDER	SEPT. 12, 17	TAZ

Seal

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Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

Scale	AS SHOWN	Designed By	TAZ
Project No.	8141	Drawn By	TAZ
Date	MARCH 2017	Checked By	GWT

Drawing Title

TYPICAL DETAILS PLAN

Drawing No.

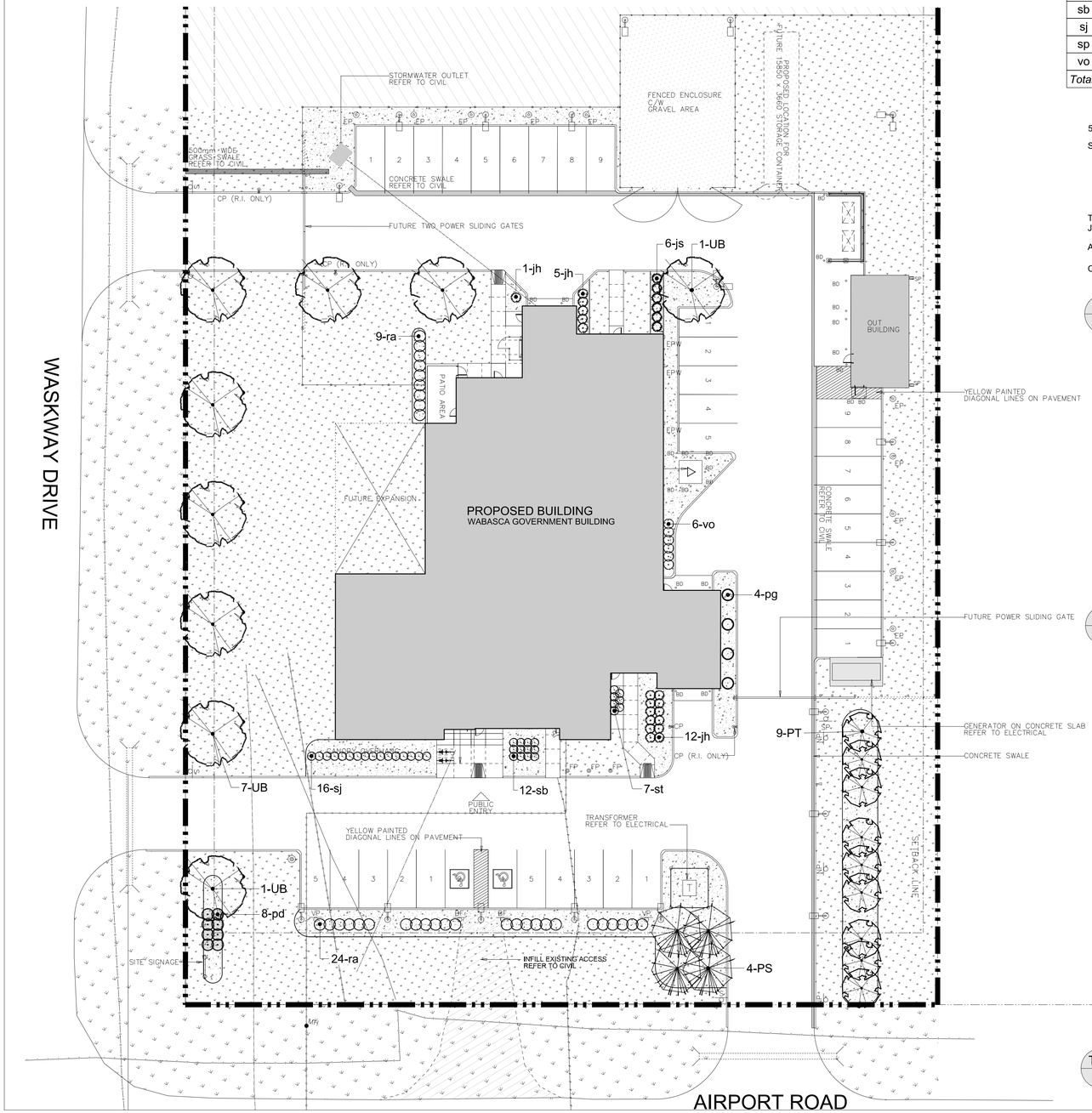
C1.2

NOTES

1. CONTRACTOR TO CONTACT LANDSCAPE ARCHITECT TO ARRANGE CONSTRUCTION COMPLETION REVIEW.
2. CONTRACTOR'S LANDSCAPE MAINTENANCE TO BE FOR **52** WEEKS. MAINTENANCE PERIOD TO START AT DATE OF CONSTRUCTION COMPLETION ACCEPTANCE AS SIGNED BY LANDSCAPE ARCHITECT.
3. CONTRACTOR TO WARRANTEE PLANT MATERIALS AND INSTALLATION FOR ONE YEAR, FROM DATE OF CONSTRUCTION COMPLETION AND ACCEPTANCE.
4. CONSTRUCTION COMPLETION OF THE LANDSCAPE MAY NOT COINCIDE WITH SUBSTANTIAL COMPLETION AND ACCEPTANCE OF THE BUILDING.

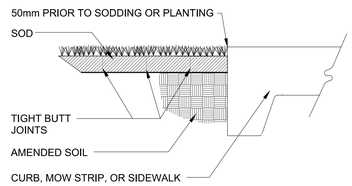
LEGEND

- PROPERTY LINE
- CULTIVATED EDGE
- SOD OVER 150mm TOPSOIL
- EXISTING GRASS, REPAIR CONSTRUCTION DAMAGED AREAS WITH TOPSOIL & SEED
- FOOTHILLS PREMIUM SPRUCE SHREDDED BARK MULCH TO 100mm DEPTH
- 19mm ROAD CRUSH TO 150mm DEPTH COMPACTED TO 98% SPD

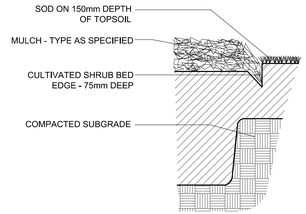


PLANT LIST

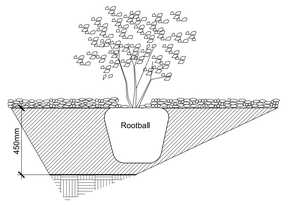
KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	SPACE	COND.
TREES						
PS	4	*Pinus sylvestris*	Scots Pine	2500mm HT.	As Shown	B&B
PT	9	*Populus tremuloides*	Trembling Aspen	50mm CAL.	As Shown	B&B
UB	9	*Ulmus americana* 'Brandon'	Brandon Elm	50mm CAL.	As Shown	B&B
Total Trees: 22						
SHRUBS						
jh	18	*Juniperus horizontalis* 'Blue Chip'	Blue Chip Juniper	450mm SP.	As Shown	POT
js	6	*Juniperus sabina* 'Arcadia'	Arcadia Juniper	450mm SP.	As Shown	POT
pd	8	*Physocarpus opulifolius* 'Darts Gold'	Darts Gold Ninebark	300mm HT.	As Shown	POT
ps	-	*Physocarpus opulifolius* 'Seward'	Summerwine Ninebark	300mm HT.	As Shown	POT
pg	4	*Potentilla fruticosa* 'Goldfinger'	Goldfinger Potentilla	300mm HT.	As Shown	POT
ra	33	*Ribes alpinum*	Alpine Currant	300mm HT.	As Shown	POT
sb	12	*Spirea bumalda* 'Gold Flame'	Gold Flame Spirea	300mm HT.	As Shown	POT
sj	23	*Spirea japonica* 'Goldmound'	Three Lobed Spirea	300mm HT.	As Shown	POT
sp	-	*Syringa patula* 'Miss Kim'	Miss Kim Lilac	300mm HT.	As Shown	POT
vo	6	*Viburnum opulus* 'Nanum'	Dwarf Highbush Cranberry	300mm HT.	As Shown	POT
Total Shrubs: 110						



TYP L-1 SOD INSTALLATION DETAIL
NTS



TYP L-1 CULTIVATED EDGE DETAIL
NTS



PLANT MATERIAL LAYOUT AS PER PLAN.

PLANTING MEDIA TO BE GOOD QUALITY TOPSOIL.

REMOVE PLANT CONTAINER FROM ROOTBALL AND PLANT DIRECTLY.

PLACE TOP OF ROOTBALL AT LEVEL OF FINISH GRADE.

CONTRACTOR TO ALLOW FOR SETTLEMENT AND TO CORRECT AS REQUIRED.

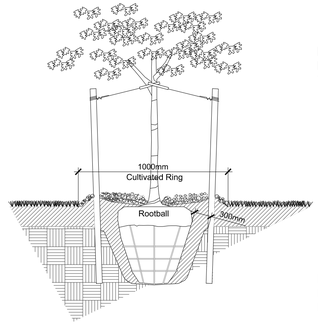
LOOSEN ROOTS AND PULL OUT TO PREVENT PLANT FROM BECOMING ROOT BOUND

SOAK SHRUB BED IN IMMEDIATELY AFTER PLANTING.

MULCH TYPE AS SPECIFIED IN LEGEND. TREAT WITH PRE-EMERGENT HERBICIDE UNDER WOOD CHIP OR BARK MULCHES (DERVINOL TREATMENT OR EQUAL) OR 5OZ WEED BARRIER FABRIC UNDER ROCK MULCHES

DO NOT MULCH AGAINST BASE OF SHRUB

TYP L-1 SHRUB PLANTING DETAIL
NTS



AVOID PURCHASING TREES WITH TWO LEADERS, OR REMOVE ONE AT PLANTING. TREE TO BE PRUNED OF DEAD, BROKEN OR STRAY BRANCHES AND COMPENSATE FOR ROOT LOSS TO FORM GOOD TREE BRANCHING STRUCTURE.

SET ROOT BALL FLUSH TO GRADE OR SLIGHTLY HIGHER IN POORLY DRAINING SOILS. REST ROOTBALL WITHIN TREE PIT EXCAVATION ON COMPACT SUBGRADE.

CONTRACTOR TO ALLOW FOR SETTLEMENT OF TREE WITHIN PLANTING PIT. CORRECT AS REQUIRED BY RAISING ROOTBALL. 50MM MAXIMUM DEPTH ALLOWABLE OVER ROOTBALL.

IF TREE IS IN A WIRE BASKET: CUT AND REMOVE ALL POLYPROPYLENE STRAPPING. CUT AND REMOVE TOP 1/3 OF WIRE BASKET. CUT AND REMOVE 1/3 OF ROOTBALL BURLAP.

PLANT TREE WITH BONE MEAL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. ENSURE GOOD QUALITY PLANTING MEDIA TO 300MM MINIMUM AROUND ROOTBALL.

2 - 3.0MM GALVANIZED STEEL WIRE THROUGH 12MM DIA. REINFORCED RUBBER HOSE LOOPED AROUND FIRST STRONG BRANCHING STRUCTURE.

2 - 38MM X 38MM WOOD OR T-IRON STAKES SET FIRMLY INTO SUBGRADE. STAKE IN DIRECTION OF PREVAILING WIND OR AS PER LANDSCAPE DIRECTIONS.

COLORED WARNING FLAGS TO EACH GUY WIRE.

MULCH TYPE AS SPECIFIED IN LEGEND. TREAT WITH PRE-EMERGENT HERBICIDE UNDER WOOD CHIP OR BARK MULCHES (DEVRINOL OR EQUAL)

KEEP MULCH AWAY FROM TREE TRUNK

TYP L-1 TREE PLANTING DETAIL
NTS

PROJECT NORTH

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

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Douglas Walters Landscape Architect Ltd.
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f 1-780-955-5008
e dwla@caisnet.com

Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR REVIEW	17/06/09	DWLA
2	ISSUED FOR 95% REVIEW	17/08/08	DWLA
3	ISSUED FOR TENDER	17/08/12	DWLA

Seal

The Alberta Association of Landscape Architects

D.H. Walters

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

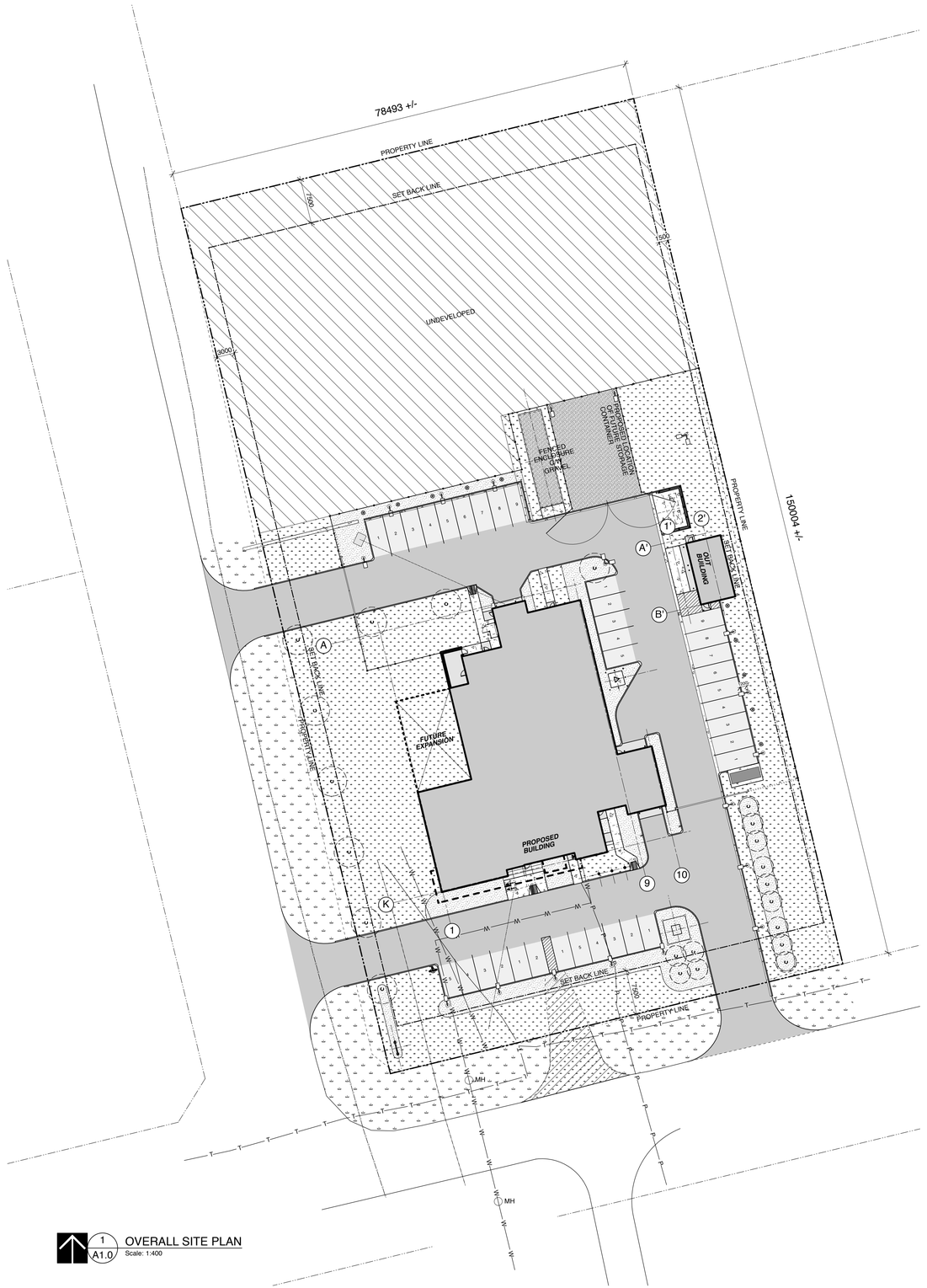
Scale	1:250	Designed By	DW
Project No.	9031	Drawn By	JS
Date	SEPT. 2017	Checked By	DW

Drawing Title

LANDSCAPE PLAN

Drawing No.

L-1



1 A1.0 OVERALL SITE PLAN
Scale: 1:400

GENERAL NOTES

1. SITE LEGENDS LOCATED ON DRAWING A1.1

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ARCHITECTS AND PLANNERS

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Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	2017-04-28	SK-ACI
2	ISSUED FOR 95% REVIEW	2017-08-08	SK-ACI
3	ISSUED FOR TENDER	2017-09-12	SK-ACI

Seal

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

Scale	1:400	Designed By	AVB
Project No.	9031	Drawn By	CK
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

OVERALL SITE PLAN

Drawing No.

A1.0

WABASCA GOVERNMENT BUILDING

SITE INFORMATION	ZONING	:	COMMERCIAL DISTRICT (C2)
	LEGAL DESCRIPTION MUNICIPAL ADDRESS	: :	LOT 8, BLOCK 15, PLAN 972 3974
	SITE AREA	:	11772 SQ.M.
	BUILDING FOOT PRINT AREA OUT BUILDING FOOT PRINT AREA	: :	1140 SQ.M. 62 SQ.M.
	SITE COVERAGE	:	1202 / 11772 * 100 = 10.2%
BUILDING INFORMATION	MAIN FLOOR ELEVATION OUT BUILDING ELEVATION	: :	100.000 = GEODETIC : 555.15 100.000 = GEODETIC : 554.70
	MAIN FLOOR GFA OUT BUILDING GFA	: :	1140 SQ.M. 62 SQ.M.
	TOTAL GFA	:	1202 SQ.M.

SYMBOL LEGEND
*APPLIES TO THIS SHEET ONLY

- EV — SIGNAGE - REFER TO DETAIL 3, 4 / A1.3 REFER TO SIGNAGE LEGEND FOR TYPES
- BD — BOLLARD REFER TO DETAIL 7, 8 / A1.3
- CP — CONTROL POST REFER TO DETAIL 1 / A1.3
- EP — ELECTRICAL CAR PLUG
- ON-SITE FIRE HYDRANT
- FP — FLAG POLE REFER TO DETAIL 14 / A1.3
- LIGHT STANDARD
- MH — MAN HOLE
- SP — PRECAST CONC. SPLASH PAD
- INTERNATIONAL SYMBOL OF ACCESSIBILITY ON PAVEMENT
- BIKE RACK

SITE HATCH LEGEND
*APPLIES TO THIS SHEET ONLY

- ▨ HEAVY-DUTY ASPHALT
- ▨ STANDARD ASPHALT
- ▨ CONCRETE
- ▨ NEW GRAVEL AREA REFER TO LANDSCAPE
- ▨ EXISTING GRASS AREA
- ▨ NEW SOD AREA REFER TO LANDSCAPE
- ▨ NEW MULCH AREA REFER TO LANDSCAPE

LINE TYPE LEGEND
*APPLIES TO THIS SHEET ONLY

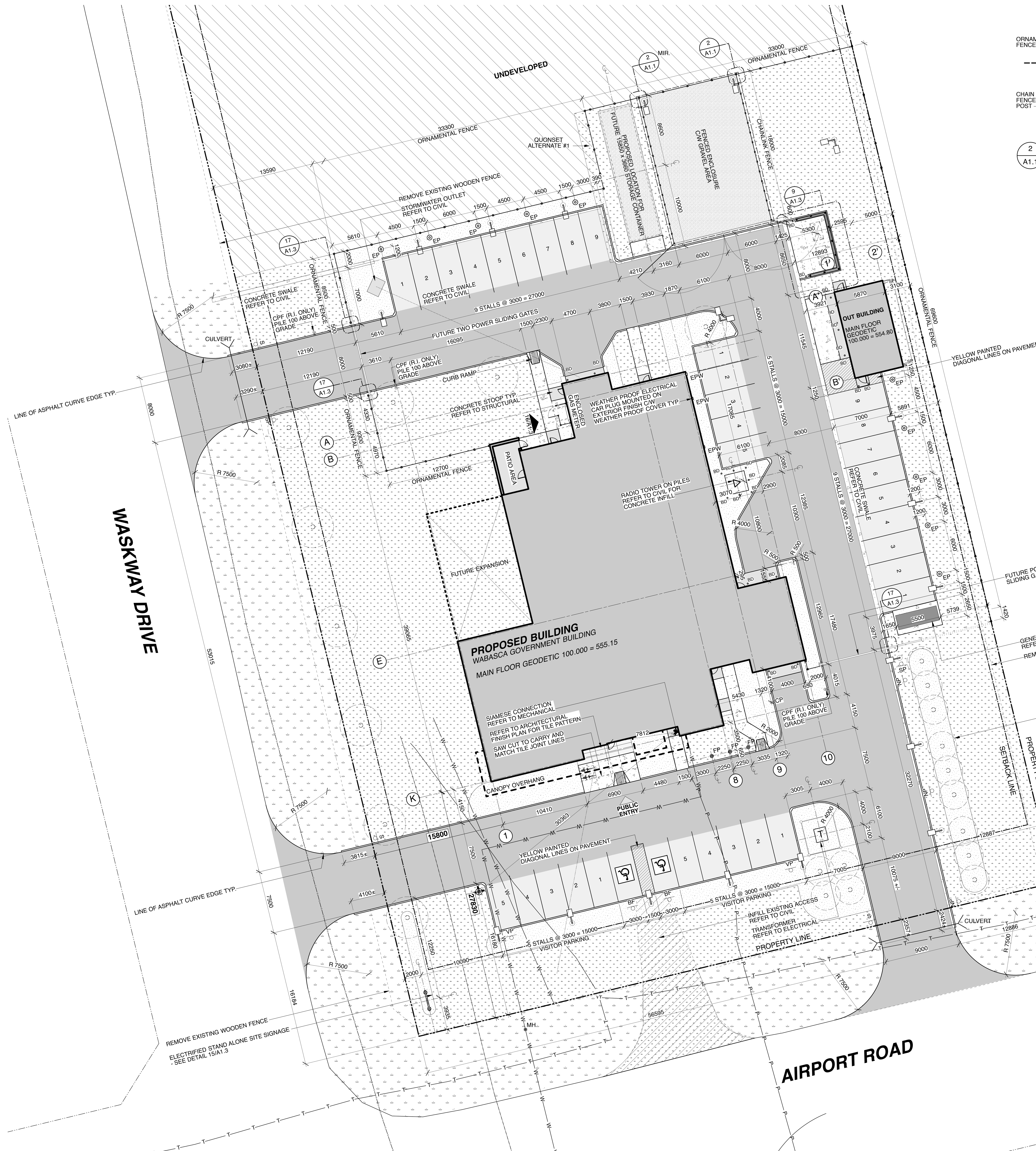
- CHAIN-LINK FENCE
- ORNAMENTAL FENCE
- P — U/G POWER LINE
- W — U/G WATER LINE
- U/G STORM LINE
- U/G GAS LINE
- T — U/G TELEPHONE LINE

SIGNAGE LEGEND

SIGNAGE (EXAMPLES)	SYMBOL	DESCRIPTION
RESERVED PARKING PERMIT REQUIRED	BF	- BARRIER FREE PARKING
	NP	- NO PARKING
DO NOT ENTER	DNE	- DO NOT ENTER
STOP	S	- STOP
VISITOR PARKING ONLY	VP	- VISITOR PARKING
STAFF PARKING ONLY	SP	- STAFF PARKING ONLY

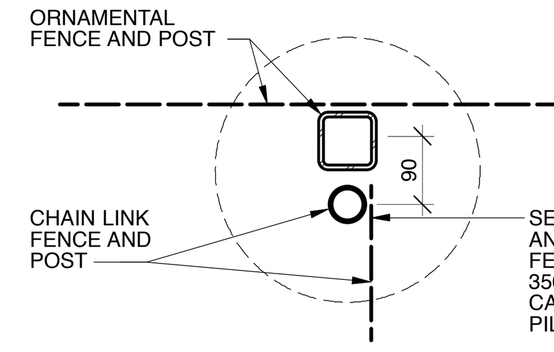
SITE GENERAL NOTES:

1. CONTRACTOR TO COORDINATE UNDERGROUND LINES WITH PILE AND TREE LOCATIONS PRIOR TO SITE EXCAVATION.
2. UNLESS NOTED OTHERWISE (U.N.O.), ALL CURB RADII ARE 500mm.
3. EXPOSED METAL IS TO BE PAINTED U.N.O.
4. WOODEN FENCE AND POSTS TO BE REMOVED FROM SITE PRIOR TO SITE WORK.
5. ELECTRIC CAR PLUG POSTS AND LIGHT STANDARDS ARE TO BE LOCATED MIN. 1200 AWAY FROM EDGE OF CURB

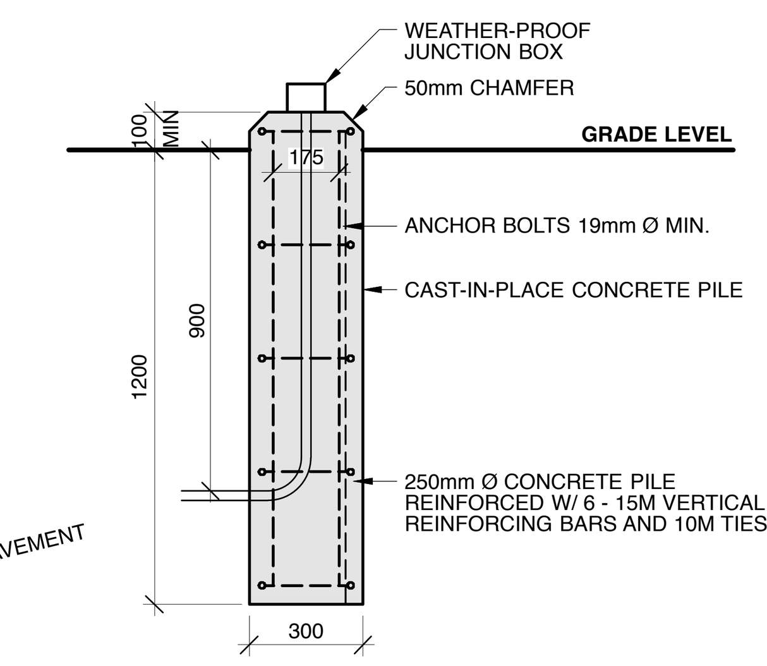


UNDEVELOPED
WASKWAY DRIVE
AIRPORT ROAD
PROPOSED BUILDING
WABASCA GOVERNMENT BUILDING
MAIN FLOOR GEODETIC 100.000 = 555.15
OUT BUILDING
MAIN FLOOR GEODETIC 100.000 = 554.80
FUTURE EXPANSION
PATIO AREA
33300 ORNAMENTAL FENCE
33000 ORNAMENTAL FENCE
QUONSET ALTERNATE #1
PROPOSED LOCATION FOR FUTURE 15850 x 3660 STORAGE CONTAINER
FENCED ENCLOSURE C/W GRAVEL AREA
CHAINLINK FENCE
REMOVE EXISTING WOODEN FENCE
STORMWATER OUTLET REFER TO CIVIL
CONCRETE SWALE REFER TO CIVIL
CPF (R.I. ONLY) PILE 100 ABOVE GRADE
9 STALLS @ 3000 = 27000
FUTURE TWO POWER SLIDING GATES
CURB RAMP
CONCRETE STOOP TYP. REFER TO STRUCTURAL
ENCLOSED GAS METER
WEATHER PROOF ELECTRICAL CAR PLUG MOUNTED ON EXTERIOR FINISH C/W WEATHER PROOF COVER TYP.
RADIO TOWER ON PILES REFER TO CIVIL FOR CONCRETE INFILL
5 STALLS @ 3000 = 15000
ORNAMENTAL FENCE
YELLOW PAINTED DIAGONAL LINES ON PAVEMENT
FUTURE POWER SLIDING GATE
GENERATOR ON CONCRETE SLAB REFER TO ELECTRICAL
PROPOSED TREE REFER TO LANDSCAPE
SETBACK LINE
PROPERTY LINE
LINE OF ASPHALT CURVE EDGE TYP.
CULVERT
SIAMESE CONNECTION REFER TO MECHANICAL
REFER TO ARCHITECTURAL FINISH PLAN FOR TILE PATTERN
SAW CUT TO CARRY AND MATCH TILE JOINT LINES
CANOPY OVERHANG
PUBLIC ENTRY
5 STALLS @ 3000 = 15000 VISITOR PARKING
INFILL EXISTING ACCESS REFER TO CIVIL
TRANSFORMER REFER TO ELECTRICAL
ELECTRIFIED STAND ALONE SITE SIGNAGE - SEE DETAIL 15/A1.3

1 A1.1 PROPOSED SITE PLAN
Scale: 1:250



2 A1.1 FENCE JUNCTION
Scale: 1:10



3 A1.1 FUTURE CONTROL POST STUB-IN (CPF)
Scale: 1:20

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Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	2017-04-28	SK-ACI
2	ISSUED FOR 95% REVIEW	2017-08-08	SK-ACI
3	ISSUED FOR TENDER	2017-09-12	SK-ACI

Seal

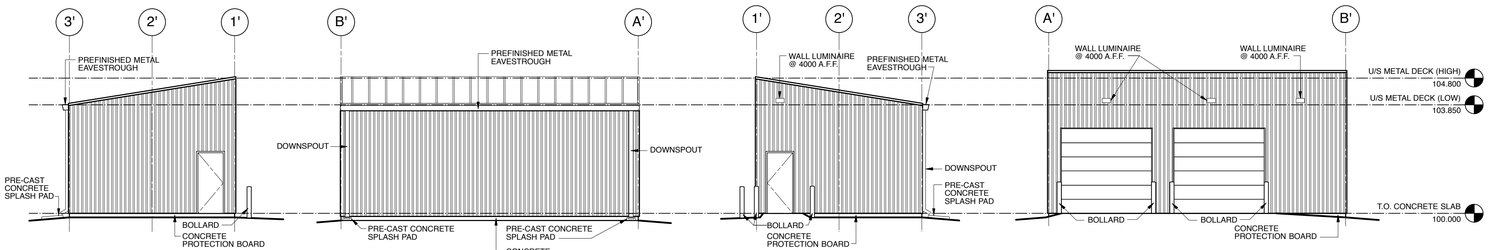
Client
Government of Canada Gouvernement du Canada
Canada

Project
WABASCA / DESMARAIS GOVERNMENT BUILDING

Scale	1:250	Designed By	AVB
Project No.	9031	Drawn By	CK
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title
PARTIAL SITE PLAN

Drawing No.
A1.1



1 A1.2 NORTH ELEVATION
Scale: 1:100

2 A1.2 EAST ELEVATION
Scale: 1:100

3 A1.2 SOUTH ELEVATION
Scale: 1:100

4 A1.2 WEST ELEVATION
Scale: 1:100

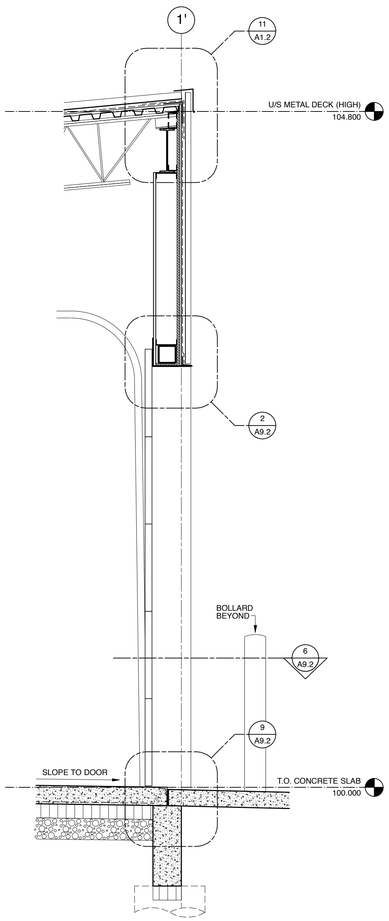
WALL LEGEND

APPLIES TO THIS SHEET ONLY

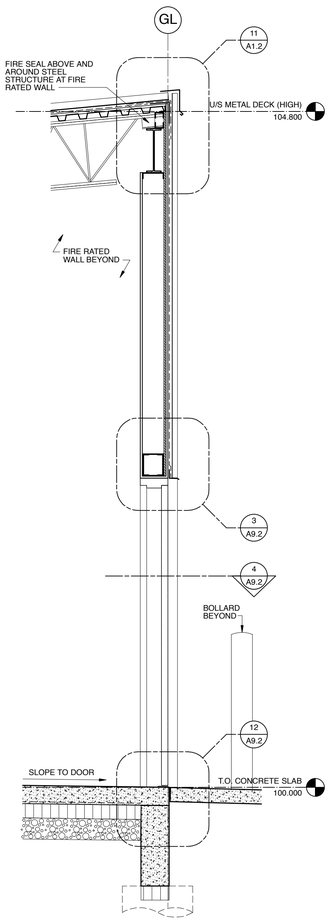
X7 CORRUGATED METAL CLADDING
AIR / VAPOUR BARRIER
16 GYPSUM BOARD SHEATHING
16 FIRE RESISTANT PLYWOOD
152 STEEL STUDS @ 400 O.C.
16 GYPSUM BOARD

1 HOUR FIRE RATED FRAMED WALL:
- BASED ON NBC ASSEMBLY S4b
16 TYPE 'X' GYPSUM BOARD
92 STEEL STUDS @ 400 O.C.
89 MINERAL FIBRE INSULATION BETWEEN STUDS
16 TYPE 'X' GYPSUM BOARD

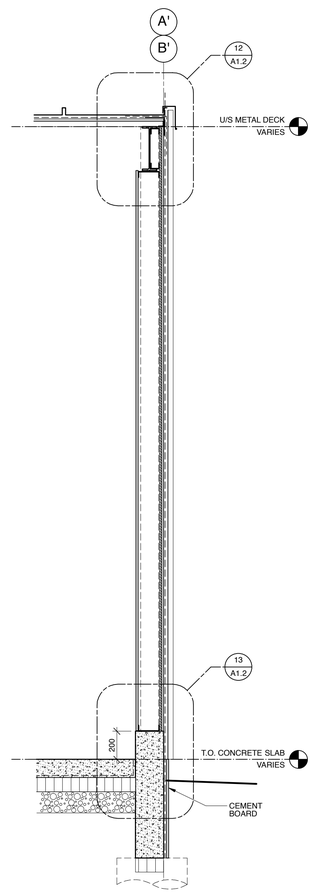
BD BOLLARD



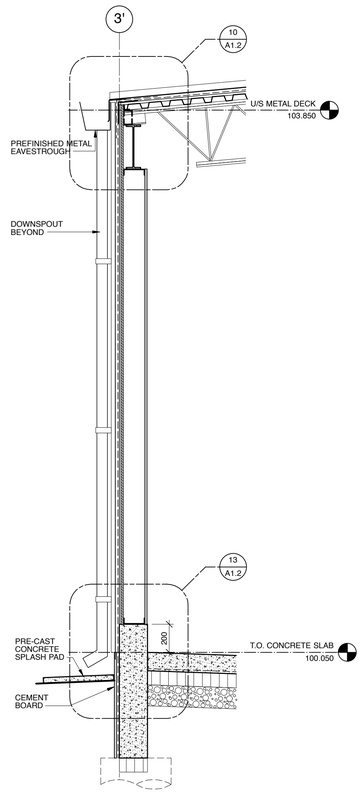
6 A1.2 WALL SECTION @ OVERHEAD DOOR
Scale: 1:20



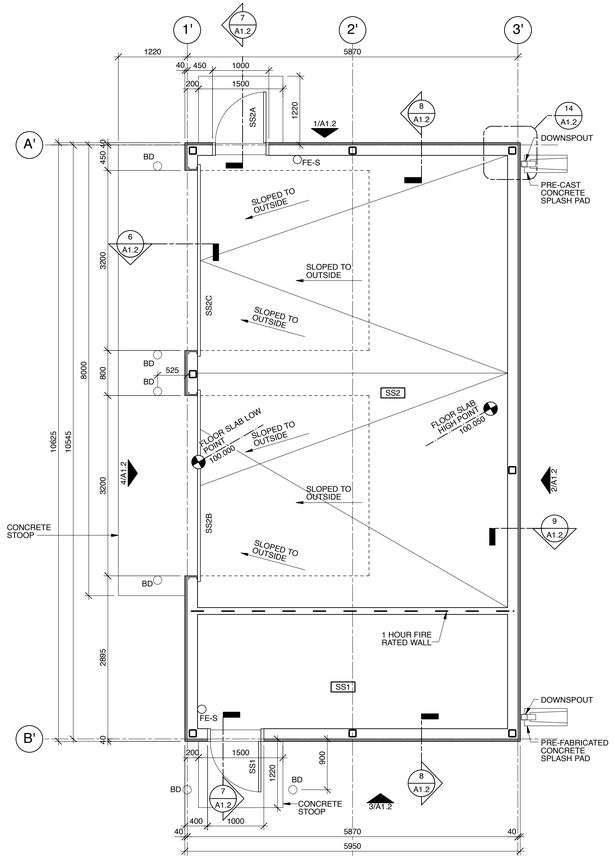
7 A1.2 WALL SECTION @ PERSONNEL DOOR
Scale: 1:20



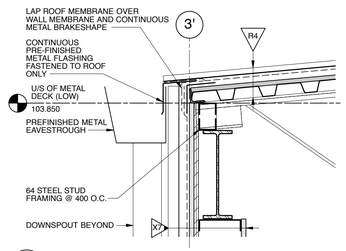
8 A1.2 WALL SECTION @ PERSONNEL DOOR
Scale: 1:20



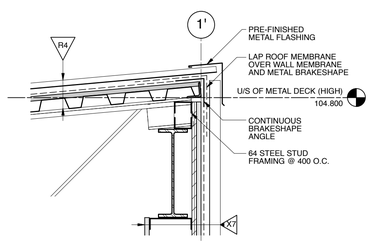
9 A1.2 WALL SECTION @ PERSONNEL DOOR
Scale: 1:20



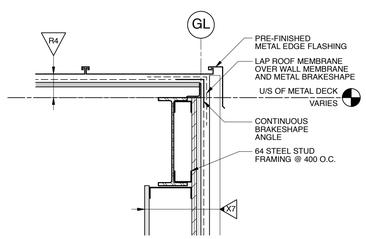
5 A1.2 OUT BUILDING FLOOR PLAN
Scale: 1:50



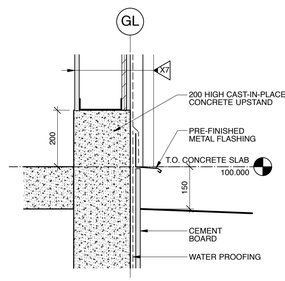
10 A1.2 SECTION @ TOP OF WALL (LOW END)
Scale: 1:10



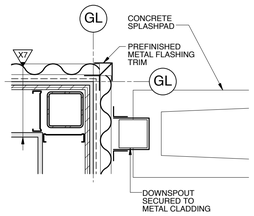
11 A1.2 SECTION @ TOP OF WALL (HIGH END)
Scale: 1:10



12 A1.2 SECTION @ TOP OF WALL GABLE END
Scale: 1:10



13 A1.2 SECTION @ BASE OF WALL
Scale: 1:10



14 A1.2 TYPICAL CORNER DETAIL
Scale: 1:10

Notes:

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Seal

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Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

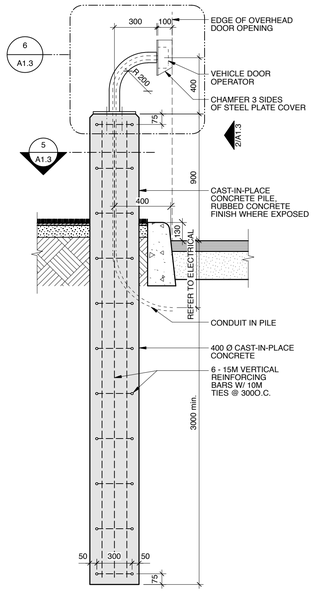
Scale	1:100	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

OUT BUILDING PLAN AND DETAILS

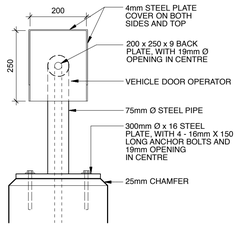
Drawing No.

A1.2



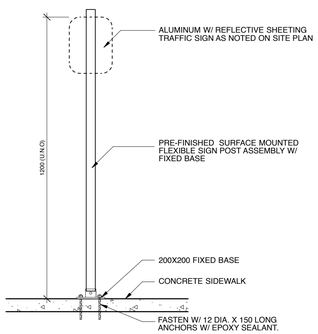
1 A1.3 OVERHEAD DOOR CONTROL POST (CP)

Scale: 1:20
NOTES:
1. ALL STEEL COMPONENTS - CONTINUOUS BEAD WELDED CONSTRUCTION.
2. ALL EXPOSED STEEL COMPONENTS TO BE PAINTED.



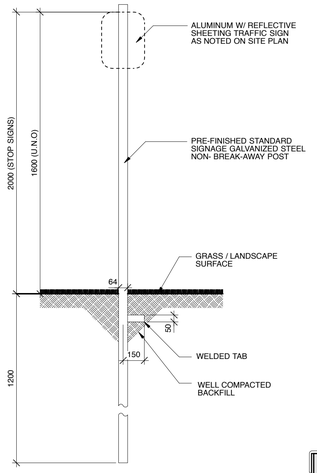
2 A1.3 OVERHEAD DOOR CONTROL POST (CP) FRONT VIEW

Scale: 1:10
NOTES:
1. ALL STEEL COMPONENTS - CONTINUOUS BEAD WELDED CONSTRUCTION.
2. ALL EXPOSED STEEL COMPONENTS TO BE PAINTED.



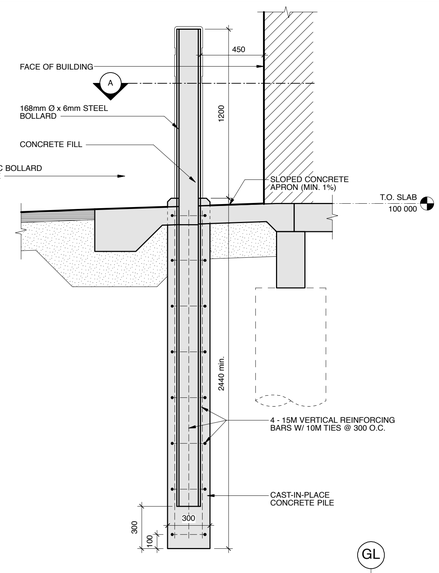
3 A1.3 SIGN POST AT CONCRETE SIDEWALK

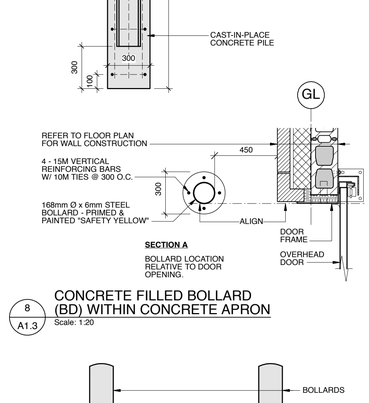
Scale: 1:20



4 A1.3 SIGN POST AT GRADE

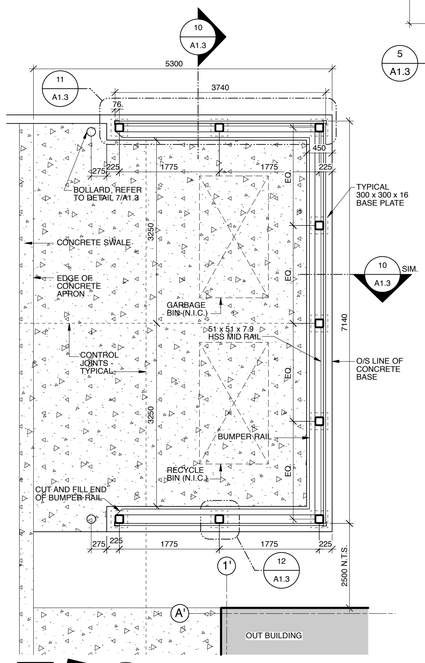
Scale: 1:20





8 A1.3 CONCRETE FILLED BOLLARD (BD) WITHIN CONCRETE APRON

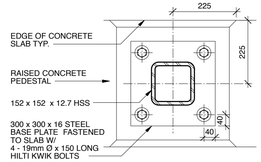
Scale: 1:20



CONSTRUCTION TRUE

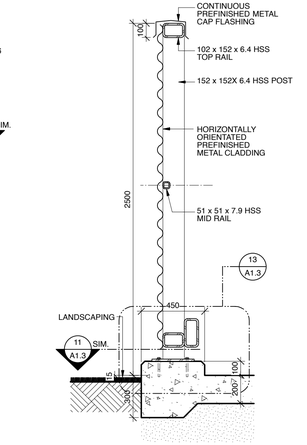
9 A1.1 GARBAGE ENCLOSURE PLAN

Scale: 1:50
NOTES:
1. ALL STEEL COMPONENTS - CONTINUOUS BEAD WELDED CONSTRUCTION.
2. ALL EXPOSED STEEL COMPONENTS TO BE PAINTED.



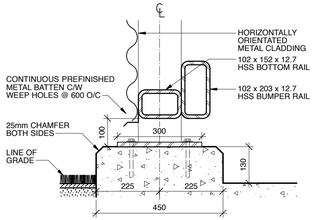
12 A1.3 BASE PLATE PLAN

Scale: 1:10
NOTES:
1. ALL STEEL COMPONENTS - CONTINUOUS BEAD WELDED CONSTRUCTION.
2. ALL EXPOSED STEEL COMPONENTS TO BE PAINTED.



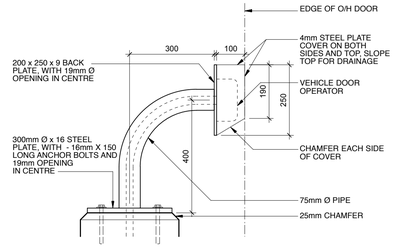
10 A1.3 SECTION

Scale: 1:20
NOTES:
1. ALL STEEL COMPONENTS - CONTINUOUS BEAD WELDED CONSTRUCTION.
2. ALL EXPOSED STEEL COMPONENTS TO BE PAINTED.



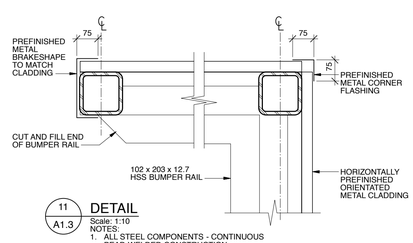
13 A1.3 SECTION

Scale: 1:10
NOTES:
1. ALL STEEL COMPONENTS - CONTINUOUS BEAD WELDED CONSTRUCTION.
2. ALL EXPOSED STEEL COMPONENTS TO BE PAINTED.



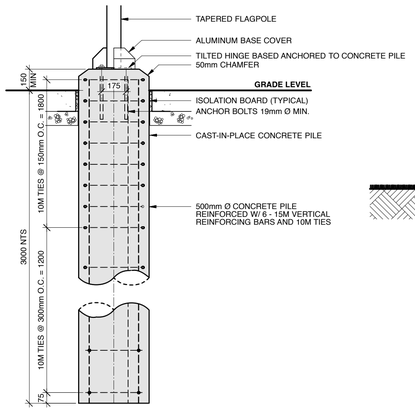
6 A1.3 OVERHEAD DOOR CONTROL POST (CP) SIDE VIEW

Scale: 1:10
ALL STEEL COMPONENTS - CONTINUOUS BEAD WELDED CONSTRUCTION.



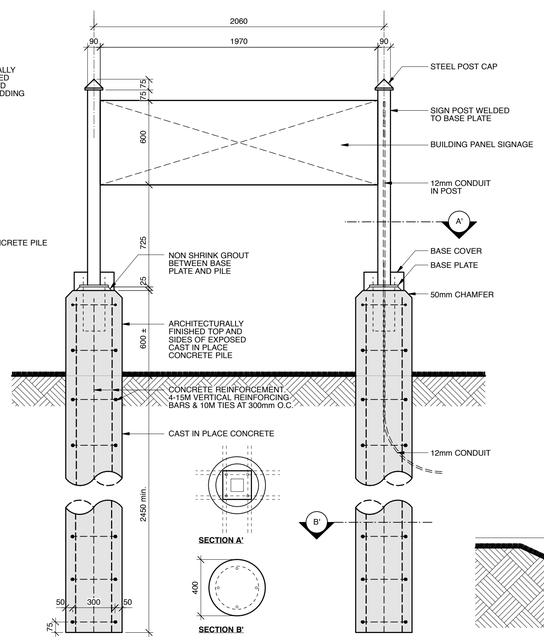
11 A1.3 DETAIL

Scale: 1:10
NOTES:
1. ALL STEEL COMPONENTS - CONTINUOUS BEAD WELDED CONSTRUCTION.
2. ALL EXPOSED STEEL COMPONENTS TO BE PAINTED.



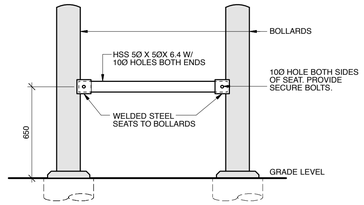
14 A1.3 FLAGPOLE DETAIL (FP)

Scale: 1:20



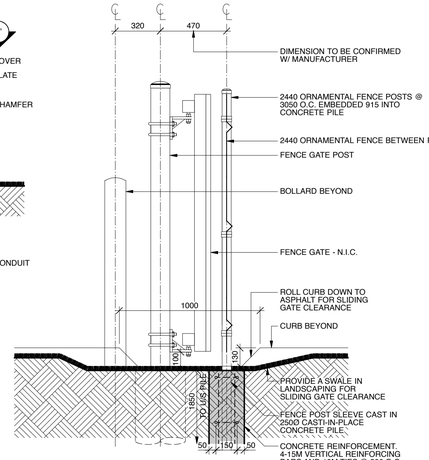
15 A1.3 ILLUMINATED SIGN SECTION

Scale: 1:20
NOTES:
1. ALL STEEL COMPONENTS - CONTINUOUS BEAD WELDED CONSTRUCTION.
2. ALL EXPOSED STEEL COMPONENTS TO BE PAINTED.



16 A1.3 GUARD RAIL DETAIL @ GAS METER

Scale: 1:20
NOTES:
1. ALL STEEL COMPONENTS - CONTINUOUS BEAD WELDED CONSTRUCTION.
2. ALL EXPOSED STEEL COMPONENTS TO BE PAINTED.



17 A1.3 FENCE GATE SECTION

Scale: 1:20

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

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WABASCA / DESMARAIS GOVERNMENT BUILDING

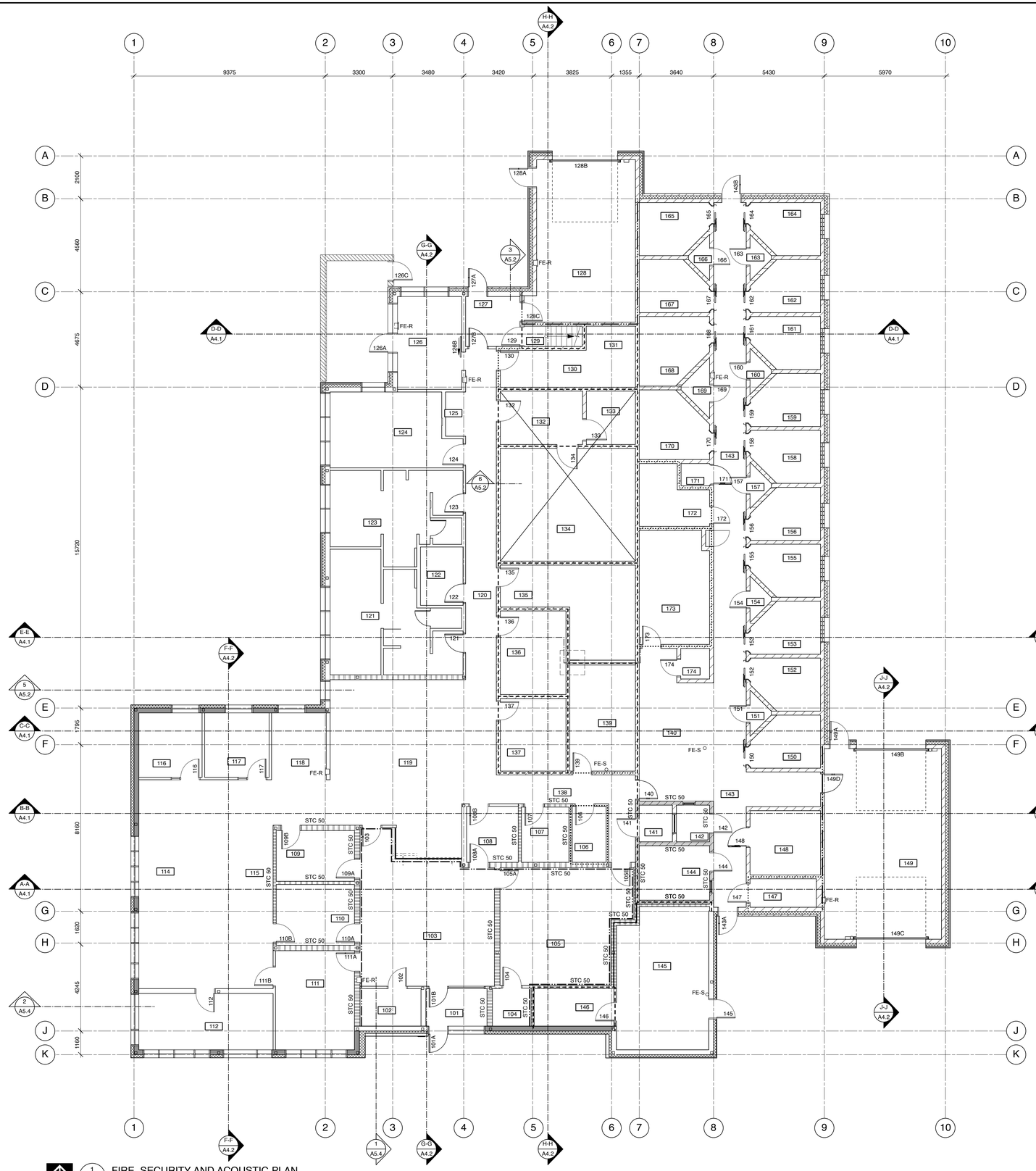
Scale	1:100	Designed By	AVB
Project No.	9031	Drawn By	CK
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

SITE DETAILS

Drawing No.

A1.3



1 A2.1 FIRE, SECURITY AND ACOUSTIC PLAN
Scale: 1:100

INTERIOR WALL LEGEND:

APPLIES TO THIS SHEET ONLY

- 19mm-#10 (18ga) ROLLED AND FLATTENED METAL MESH (TO EXTERIOR SIDE OF STUDS)
- 1.5 HOUR FIRE RATED PARTITION
- 1 HOUR FIRE RATED PARTITION
- 0 MINUTE FIRE RATED PARTITION
- ACOUSTIC STEEL STUD PARTITION - STC 50
- ACOUSTIC CONCRETE BLOCK PARTITION
- DIAGONAL LINES INDICATE CONCRETE CAP. U/S OF CAP @ 3000 A.F.F.
- NON-ACOUSTIC RATED STEEL STUD PARTITION W/ BATT INSULATION FULL DEPTH OF PARTITION

ABBREVIATION LEGEND:

APPLIES TO THIS SHEET ONLY

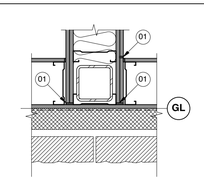
- FE-R FIRE EXTINGUISHER - RECESSED MOUNTED
- FE-S FIRE EXTINGUISHER - SURFACE MOUNTED

GENERAL NOTES:

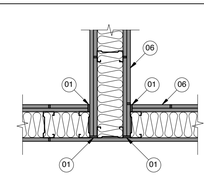
APPLIES TO ALL SHEETS

1. DUCT OPENINGS OVER 200 X 200 WILL NEED TO INCLUDE SECURITY DUCT OPENING DETAIL 10/A8.1. THIS WILL APPLY TO ROOMS 103, 104, 145, 146, 130 TO 139, ALL ROOF PENETRATIONS, EXTERIOR WALL PENETRATIONS AND ALL PENETRATIONS BETWEEN GRIDLINES 7-10 AND B-H

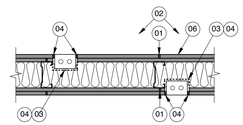
TYPICAL ACOUSTIC PARTITION DETAILS



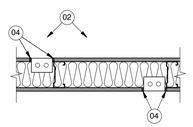
A A2.1 RATED ACOUSTIC PARTITION @ EXTERIOR WALL
Scale: 1:10



B A2.1 RATED ACOUSTIC INTERIOR 'T' CONNECTION
Scale: 1:10

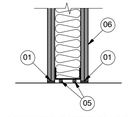


C A2.1 PLUG-INS WITHIN RATED ACOUSTIC PARTITION
Scale: 1:10



D A2.1 PLUG-INS WITHIN NON-RATED ACOUSTIC PARITION
Scale: 1:10

GENERAL NOTE:
USE RESILIENT PIPE ATTACHMENTS FOR PLUMBING. DO NOT CONNECT OPPOSING LAYERS OF DRYWALL.



E A2.1 ACOUSTIC PARTITION CONNECTION
Scale: 1:10

STC 50 AND 53 RATED WALL ASSEMBLY BASED ON NATIONAL BUILDING CODE DESIGN #W6E AND W9C

KEYNOTES:

01. APPLY NON-HARDENING ACOUSTIC SEALANT TO PERIMETER OF EACH SHEET OF GYPSUM BOARD AND ANY WALL CONNECTIONS.
02. OFFSET ALL RECEPTACLE BOXES FROM ONE ANOTHER, EVEN IN UN-RATED PARTITIONS.
03. APPLY FLEXIBLE ACOUSTIC SHEETING TO BACK, SIDES AND VAPOUR PROTECTORS INSIDE OF RECEPTACLE BOXES, SEAL AGAINST GYPSUM BOARD AND CONDUIT.
04. APPLY SEALANT TO ANY PENETRATION THROUGH MEMBRANE AND/OR AROUND RECEPTACLE BOXES.
05. PLACE METAL STUD ON TWO BEADS OF ACOUSTIC SEALANT.
06. STAGGER 2ND LAYER OF GYPSUM BOARD JOINTS

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

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WABASCA / DESMARAIS GOVERNMENT BUILDING

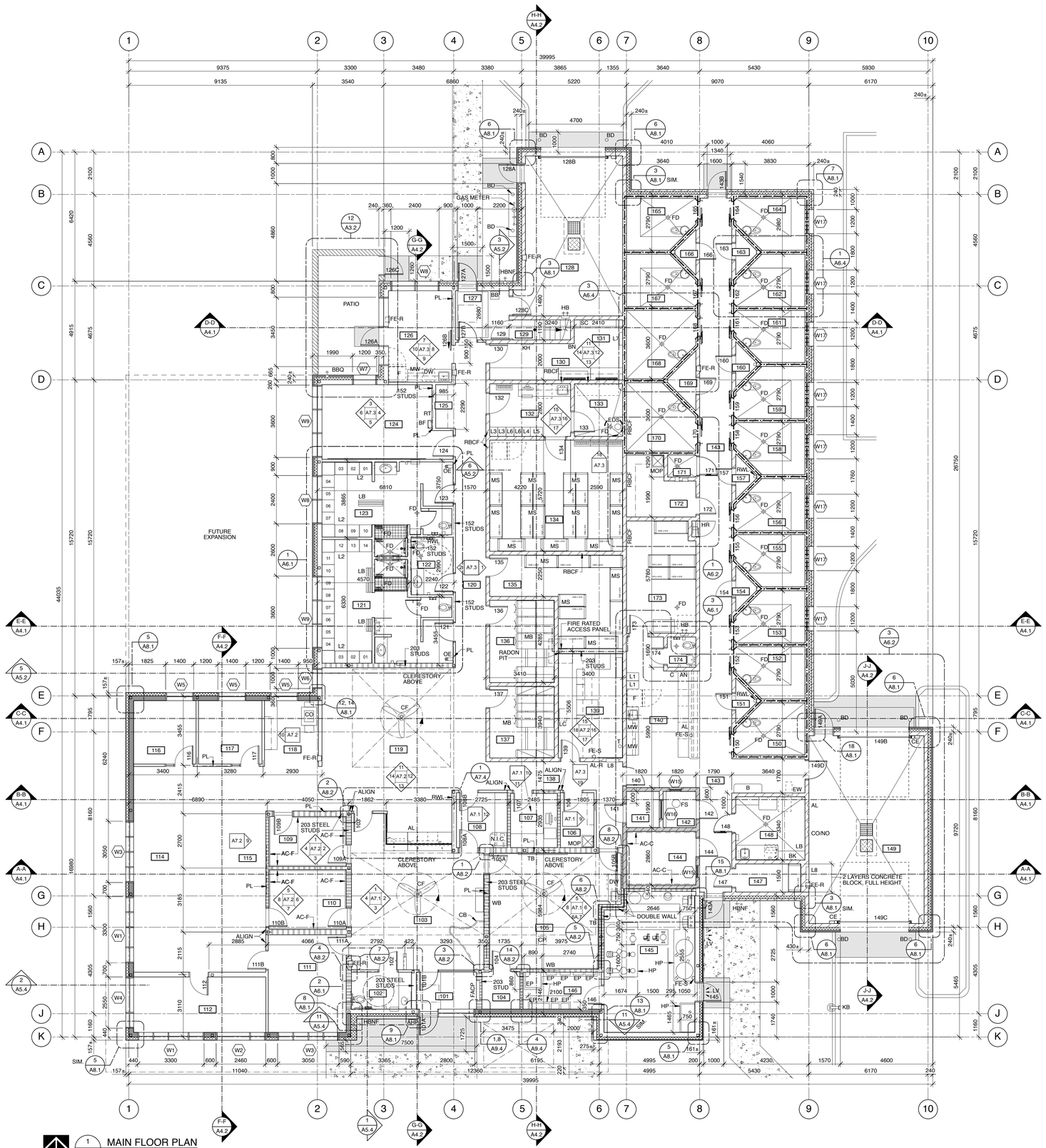
Scale	1:100	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

MAIN FLOOR FIRE, SECURITY AND ACOUSTIC PLAN

Drawing No.

A2.1



1 A2.2 MAIN FLOOR PLAN
Scale: 1:100

INTERIOR WALL LEGEND:

APPLIES TO THIS SHEET ONLY

FRAMED WALL:
16 GYPSUM BOARD
92 STEEL STUDS (UNO) @ 400 O.C.
ACOUSTIC BATT INSULATION BETWEEN STUDS
16 GYPSUM BOARD

FRAMED WALL-ACOUSTIC: STC 50
2 LAYERS - 16 TYPE 'X' GYPSUM BOARD, JOINTS STAGGERED
92 STEEL STUDS (UNO) @ 400 O.C.
BATT INSULATION TO FILL WALL CAVITY
2 LAYERS - 16 TYPE 'X' GYPSUM BOARD, JOINTS STAGGERED
ACOUSTIC SEALANT FULL PERIMETER OF EACH GYPSUM BOARD PANEL AND ALL PENETRATIONS. REFER TO TYPICAL ACOUSTIC PARTITION DETAILS.

CONCRETE WALL:
200 CONCRETE BLOCK

CONCRETE WALL-SECURE:
200 CONCRETE BLOCK
REBAR AND GROUT FILL BLOCK CORES FROM FLOOR SLAB TO CONCRETE CAP @ 600 O.C. AS PER STRUCTURAL

CONCRETE WALL-ACOUSTIC: STC 50
200 CONCRETE BLOCK
CORES TO BE GROUT FILLED FULL HEIGHT, IN EACH VOID

EXTERIOR WALL LEGEND:

APPLIES TO THIS SHEET ONLY

X1 100 SPLIT-FACE BLOCK VENEER
25 AIR SPACE
75 SEMI-RIGID INSULATION
50 SEMI-RIGID INSULATION - SEAMS STAGGERED
AIR / VAPOUR BARRIER
16 GYPSUM BOARD SHEATHING
203 STEEL STUDS @ 400 O.C.
16 GYPSUM BOARD

X2 COMPOSITE PHENOLIC PANEL
SUSPENSION RAIL
HORIZONTAL PROFILE
75 SEMI-RIGID INSULATION
VERTICAL Z-BARS
50 SEMI-RIGID INSULATION - SEAMS STAGGERED
HORIZONTAL Z-BARS
WALL BRACKET
THERMAL SEPARATOR
AIR / VAPOUR BARRIER
16 GYPSUM BOARD SHEATHING
203 STEEL STUDS @ 400 O.C.
16 GYPSUM BOARD

X3 FIBRE REINFORCED CEMENT BOARD PANEL
SUSPENSION RAIL
HORIZONTAL PROFILE
75 SEMI-RIGID INSULATION
VERTICAL Z-BARS
50 SEMI-RIGID INSULATION - SEAMS STAGGERED
HORIZONTAL Z-BARS
WALL BRACKET
THERMAL SEPARATOR
AIR / VAPOUR BARRIER
16 GYPSUM BOARD SHEATHING
203 STEEL STUDS @ 400 O.C.
16 GYPSUM BOARD

X4 100 SPLIT-FACE BLOCK VENEER
25 AIR SPACE
75 SEMI-RIGID INSULATION
50 SEMI-RIGID INSULATION - SEAMS STAGGERED
AIR / VAPOUR BARRIER
200 CONCRETE BLOCK

X5 100 BRICK VENEER
25 AIR SPACE
75 SEMI-RIGID INSULATION
50 SEMI-RIGID INSULATION - SEAMS STAGGERED
AIR / VAPOUR BARRIER
200 CONCRETE BLOCK

X6 100 BRICK VENEER
25 AIR SPACE
75 SEMI-RIGID INSULATION
50 SEMI-RIGID INSULATION - SEAMS STAGGERED
AIR / VAPOUR BARRIER
16 GYPSUM BOARD SHEATHING
203 STEEL STUDS @ 400 O.C.
16 GYPSUM BOARD

X7 CORRUGATED METAL CLADDING
AIR / VAPOUR BARRIER
16 GYPSUM BOARD SHEATHING
16 FIRE RESISTANT PLYWOOD
152 STEEL STUDS @ 400 O.C.
16 GYPSUM BOARD

LEGEND:

(W#) INDICATES WINDOWS

ABBREVIATIONS:

APPLIES TO ENTIRE DRAWING SET

AC-C	ACOUSTIC CEMENTITIOUS BOARD (PAINTED)
AC-F	ACOUSTIC FABRIC FINISH PANEL
AHP	AFTER HOURS TELEPHONE
AN	FIRE ALARM ANNUNCIATOR PANEL
AL	DURESS ALARM
AL-R	DURESS ALARM RESET
B	BENCH
BB	BOOT BOY (N.I.C.)
BBQ	BARBECUE GAS CONNECTION
BD	BOLLARD
BF	BOTTLE FILLER
BK	BACKDROP (18% GREY IN WHITE PAINT)
BN	BULLNOSE CONCRETE BLOCK CORNER
C	CLOCK, WIRED IN
CB	CONCRETE BENCH
CE	CHAIN ENCLOSURE
CF	CEILING FAN ABOVE
CO	PHOTOCOPIER (N.I.C.)
CP	CEILING PROJECTOR ABOVE (N.I.C.)
DW	DISHWASHER (UNDER COUNTER - N.I.C.)
EDS	EMERGENCY DRENCH SHOWER C/W EYEWASH STATION (N.I.C.)
EP	ELECTRICAL PANEL
EW	EYEWASH STATION
F	FRIDGE (N.I.C.)
FACP	FIRE ALARM CONTROL PANEL (RECESSED)
FD	FLOOR DRAIN
FE-R	FIRE EXTINGUISHER - SEMI-RECESSED / RECESSED
FE-S	FIRE EXTINGUISHER - SURFACE MOUNTED
FS	FIXED STOOL
GB	GLASS BLOCK
GD	GARBAGE DISPOSAL - WALL MOUNTED
GL	GLAZING
HB	HOSE BIB
HBNF	HOSE BIB - NON-FREEZE
HR	HOSE REEL
HP	HOUSE KEEPING PAD - 100 HIGH
KB	KEYSWITCH BOLLARD
KH	KEY HOOK BOARD
L1	LOCKER TYPE 1
L2	LOCKER TYPE 2
L3	LOCKER TYPE 3
L4	LOCKER TYPE 4
L5	LOCKER TYPE 5
L6	LOCKER TYPE 6
L7	LOCKER TYPE 7
LB	LOCKER BENCH
LC	FLIP-DOWN LAPTOP COUNTER
LV	LOUVRE - SEE MECHANICAL
MB	MOBILE SHELVING (N.I.C.)
MIR	MIRROR
MOP	MOP SINK
MS	METAL SHELVING (N.I.C.)
MW	MICROWAVE (N.I.C.)
N.I.C.	NOT IN CONTRACT
OE	OWNER EQUIPMENT (N.I.C. EXCEPT FOR WALL BACKING)
PC	PROJECTION SCREEN ABOVE (N.I.C.)
PD	PAPER TOWEL DISPENSER
PL	PLYWOOD BACKING IN WALL
RT	RECESSED TELEPHONE JACK ALCOVE
RBCF	REBAR AND GROUT FILL EACH CONCRETE BLOCK WALL CORE
RWL	RAIN WATER LEADER
SB	SMARTBOARD (N.I.C.)
SC	PRE-FABRICATED STORAGE CABINET (N.I.C.)
SD	SOAP DISPENSER
SK	SPEAKER DISK
SP	SPANDREL PANEL
T	TELCO FEED
TB	TACK BOARD (N.I.C.)
TP	TOILET PARTITION
UNO	UNLESS NOTED OTHERWISE
WB	WHITE BOARD (N.I.C.)

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GENERAL NOTES:

1. GYPSUM WALLS CONTAINING A COLUMN TO USE 203 STEEL STUDS FULL LENGTH OF WALL.
2. CONCRETE BLOCK WALLS TO HAVE BULLNOSE CORNERS AT ALL OUTSIDE CORNERS, HEADS, JAMBS AND SILLS UNLESS NOTED OTHERWISE.
3. ALL DOOR FRAMES IN DRYWALL / STEEL STUD WALLS ARE 100 AWAY FROM CORNER UNLESS NOTED OTHERWISE.
4. ALL CONCRETE BLOCK IS 200 UNLESS NOTED OTHERWISE.
5. ALL DOOR FRAMES IN INTERIOR CONCRETE BLOCK WALLS ARE 200 FROM INSIDE CORNER OR TIGHT TO CORNER UNLESS NOTED OTHERWISE.
6. ALL INTERIOR WALLS TO BE FULL HEIGHT TO U/S OF DECK UNLESS NOTED OTHERWISE.
7. ALL EXTERIOR GLAZING TO HAVE SECURITY FILM ON INTERIOR SURFACE, FULL SURFACE AREA.

Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	2017-04-28	SK-ACI
2	ISSUED FOR 95% REVIEW	2017-08-08	SK-ACI
3	ISSUED FOR TENDER	2017-09-12	SK-ACI

Seal

Client

Government of Canada / Gouvernement du Canada
Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

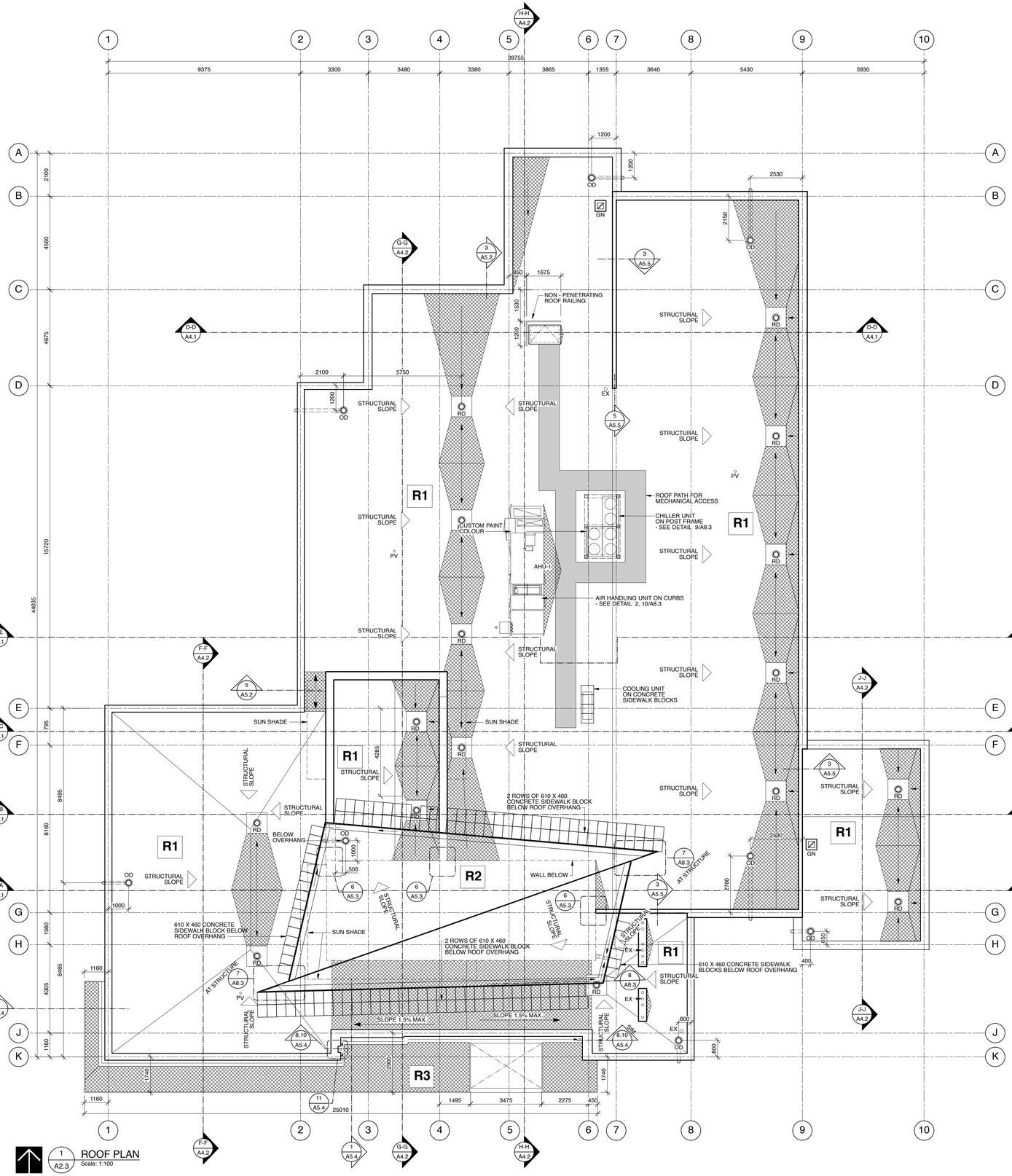
Scale	1:100	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

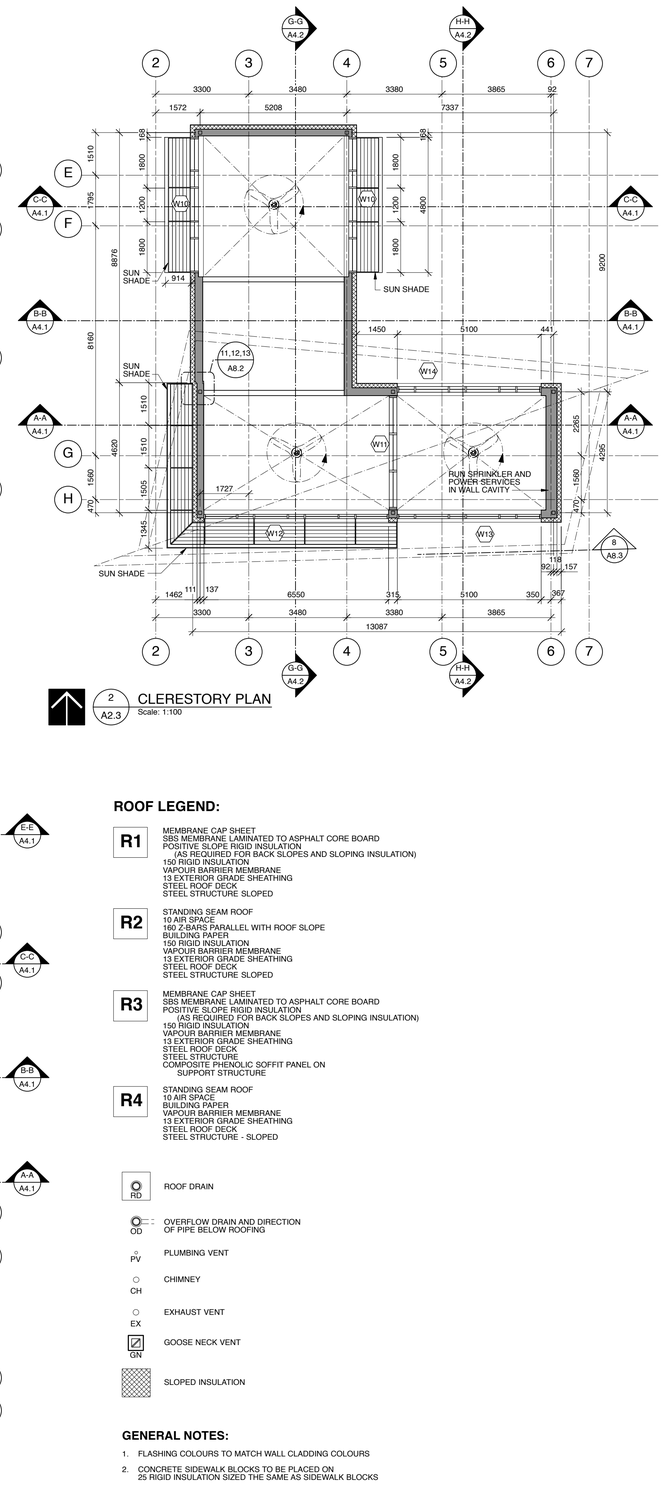
MAIN FLOOR PLAN

Drawing No.

A2.2



1 A2.3 ROOF PLAN
Scale: 1:100



2 A2.3 CLERESTORY PLAN
Scale: 1:100

ROOF LEGEND:

R1 MEMBRANE CAP SHEET
SBS MEMBRANE LAMINATED TO ASPHALT CORE BOARD
POSITIVE SLOPE RIGID INSULATION
(AS REQUIRED FOR BACK SLOPES AND SLOPING INSULATION)
150 RIGID INSULATION
VAPOUR BARRIER MEMBRANE
13 EXTERIOR GRADE SHEATHING
STEEL ROOF DECK
STEEL STRUCTURE SLOPED

R2 STANDING SEAM ROOF
10 AIR SPACE
160 Z-BARS PARALLEL WITH ROOF SLOPE
BUILDING PAPER
150 RIGID INSULATION
VAPOUR BARRIER MEMBRANE
13 EXTERIOR GRADE SHEATHING
STEEL ROOF DECK
STEEL STRUCTURE SLOPED

R3 MEMBRANE CAP SHEET
SBS MEMBRANE LAMINATED TO ASPHALT CORE BOARD
POSITIVE SLOPE RIGID INSULATION
(AS REQUIRED FOR BACK SLOPES AND SLOPING INSULATION)
150 RIGID INSULATION
VAPOUR BARRIER MEMBRANE
13 EXTERIOR GRADE SHEATHING
STEEL ROOF DECK
STEEL STRUCTURE
COMPOSITE PHENOLIC SOFFIT PANEL ON SUPPORT STRUCTURE

R4 STANDING SEAM ROOF
10 AIR SPACE
BUILDING PAPER
VAPOUR BARRIER MEMBRANE
13 EXTERIOR GRADE SHEATHING
STEEL ROOF DECK
STEEL STRUCTURE - SLOPED

RD ROOF DRAIN

OD OVERFLOW DRAIN AND DIRECTION OF PIPE BELOW ROOFING

PV PLUMBING VENT

CH CHIMNEY

EX EXHAUST VENT

GN GOOSE NECK VENT

SLOPED INSULATION

GENERAL NOTES:

1. FLASHING COLOURS TO MATCH WALL CLADDING COLOURS
2. CONCRETE SIDEWALK BLOCKS TO BE PLACED ON 25 RIGID INSULATION SIZED THE SAME AS SIDEWALK BLOCKS

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WABASCA / DESMARAIS GOVERNMENT BUILDING

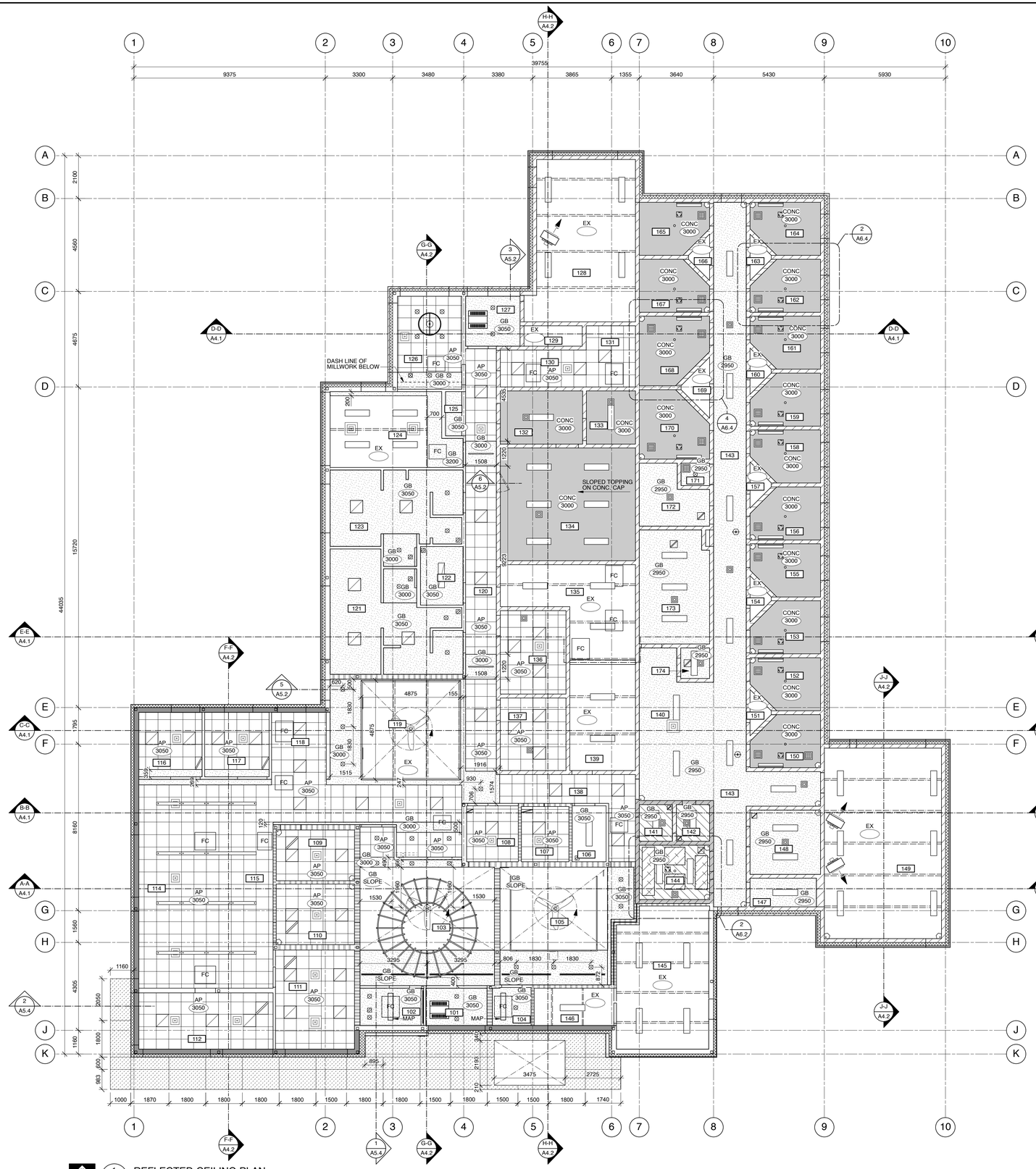
Scale	1:100	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

ROOF PLAN

Drawing No.

A2.3

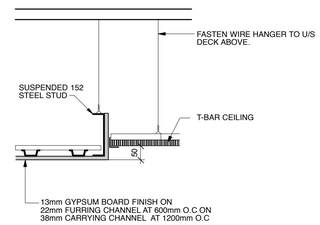


1 A2.4 REFLECTED CEILING PLAN
Scale: 1:100

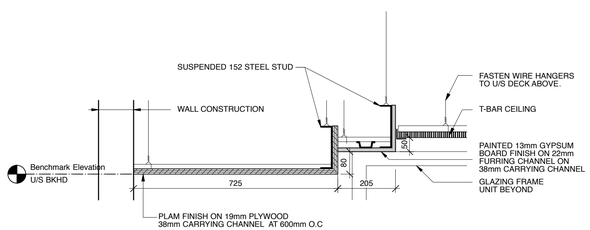
LEGEND:

APPLIES TO THIS SHEET ONLY

- CEILING MATERIAL / CEILING HEIGHT A.F.F.
- DIRECT/INDIRECT SUSPENDED LUMINAIRE
- 305 x 1220 SURFACE MOUNTED LUMINAIRE
- SUSPENDED LUMINAIRE
- 610 x 610 RECESSED LED LUMINAIRE
- SECURE WALL MOUNTED LUMINAIRE
- CUSTOM SUSPENDED FEATURE LUMINAIRE
- SUSPENDED LUMINAIRE
- VANITY WALL MOUNTED LED LUMINAIRE, ROOM 102
- PERIMETER WALL MOUNTED LED LUMINAIRE, ROOM 119
- POTLIGHT
- CEILING MOUNTED EXIT SIGNAGE
- WALL MOUNTED EXIT SIGNAGE
- SUPPLY AIR DIFFUSER
- EXHAUST AIR GRILLE
- RETURN AIR GRILLE
- SECURE AIR GRILLE
- EXPOSED CONCRETE CEILING (HIGH BUILDING COATING UNO. PAINTED IN ROOMS 132, 133 AND 134) PATCH AND FILL CONCRETE CEILING TO PREVENT HONEYCOMB / PIN HOLES PRIOR TO APPLYING PAINT OR HIGH BUILD COATING
- GYPSUM BOARD CEILING
- T-BAR CEILING
- DENOTES ACOUSTIC-RATED GWB DOUBLE CEILING SEE 5 / A6.6
- OPEN WEB STEEL JOISTS
- WALLS, REFER TO FLOOR PLANS
- COMPOSITE PHENOLIC SOFFIT PANELS
- ACOUSTIC PANELS - ACP3 (REFER TO A10.1)
- FC FAN COIL ABOVE CEILING



2 A2.4 GYPSUM BOARD BULKHEAD DETAIL
Scale: 1:10



3 A2.4 BULKHEAD DETAIL ROOM 126
Scale: 1:10

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***CLEAR 3-DIMENSIONAL ZONE:**

CLEAR 3-DIMENSIONAL ZONE TO BE PRESERVED TO FACILITATE FAN COIL SERVICING TO DIMENSIONS INDICATED. HEIGHT OF CLEAR ZONE TO EXTEND FROM THE UNDERSIDE OF CEILING DIRECTLY BELOW TO WITHIN 100 OF THE UNDERSIDE OF STRUCTURAL DECK.

NO ENCROACHMENT BY ARCHITECTURAL, STRUCTURAL, MECHANICAL OR ELECTRICAL ELEMENTS IS PERMITTED, WITHOUT EXCEPTION, UNLESS REVIEWED IN ADVANCE WITH THE PRIME CONSULTANT. THIS INCLUDES SERVICES TO THE FAN COIL WHICH MUST BE CAREFULLY COORDINATED TO RESPECT THE SERVICE ZONE.

SUPPLY ALL ADDITIONAL MATERIALS AND LABOUR TO ENSURE COMPLIANCE. WHERE SERVICES ARE FOUND TO ENCROACH ON THESE CLEAR ZONES THEY WILL BE REQUIRED TO BE RELOCATED AT NO ADDITIONAL COST.

PROVIDE REMOVABLE GRID TEE'S AT T-BAR CEILING GRID FOR ACCESS TO FILTERS.

NOTES:

1. ALL CEILINGS 3050 U.N.O.

ABBREVIATIONS:

AP	ACOUSTIC PANEL
CONC	CONCRETE CAP
EX	EXPOSED STRUCTURE
GB	GYPSUM BOARD
MAP	CUSTOM ALUMINUM ACCESS PANEL (LOCATIONS TO BE CONFIRMED ON SITE WITH FAN COIL UNITS)
PS	ALUMINUM PLANK SYSTEM

Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	2017-04-28	SK-ACI
2	ISSUED FOR 95% REVIEW	2017-08-08	SK-ACI
3	ISSUED FOR TENDER	2017-09-12	SK-ACI

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Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

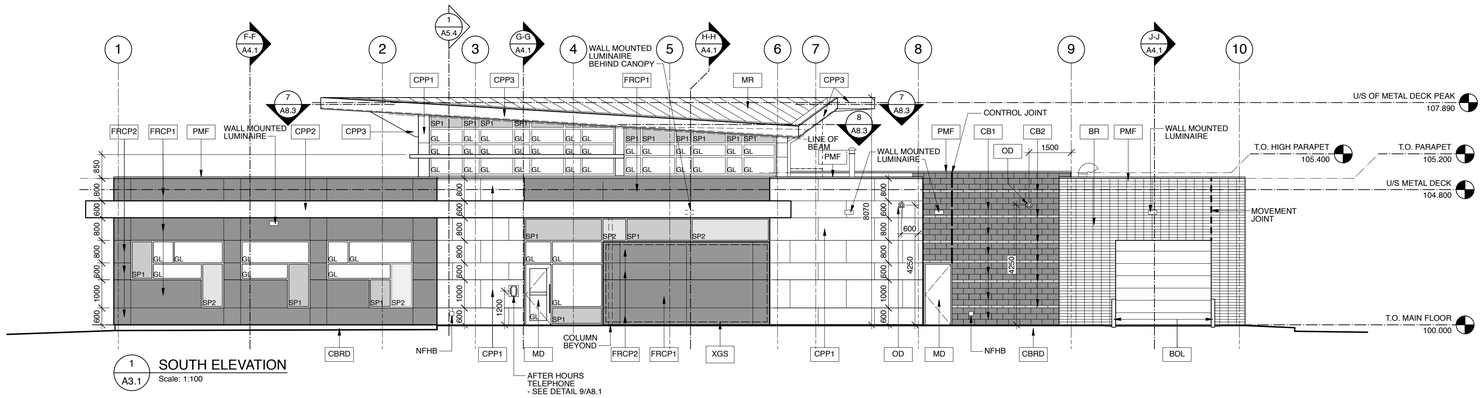
Scale	1:100	Designed By	LT
Project No.	9031	Drawn By	CH
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

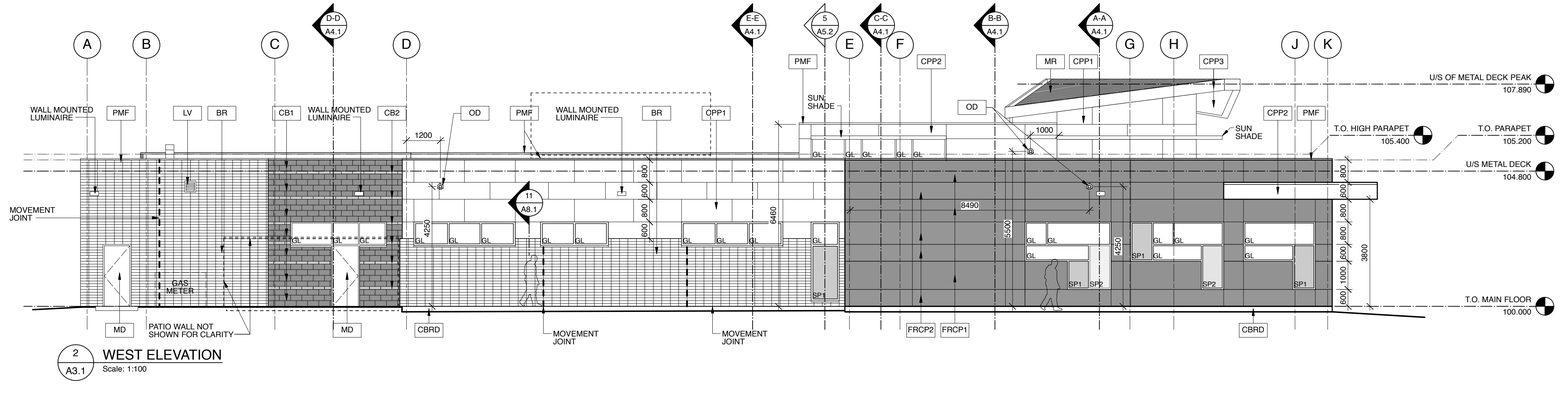
REFLECTED CEILING PLAN

Drawing No.

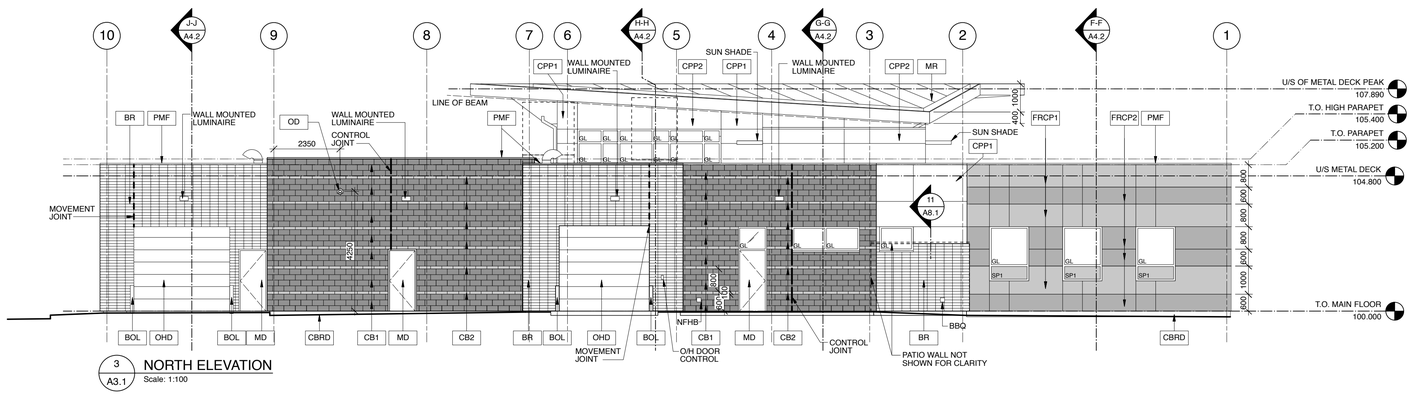
A2.4



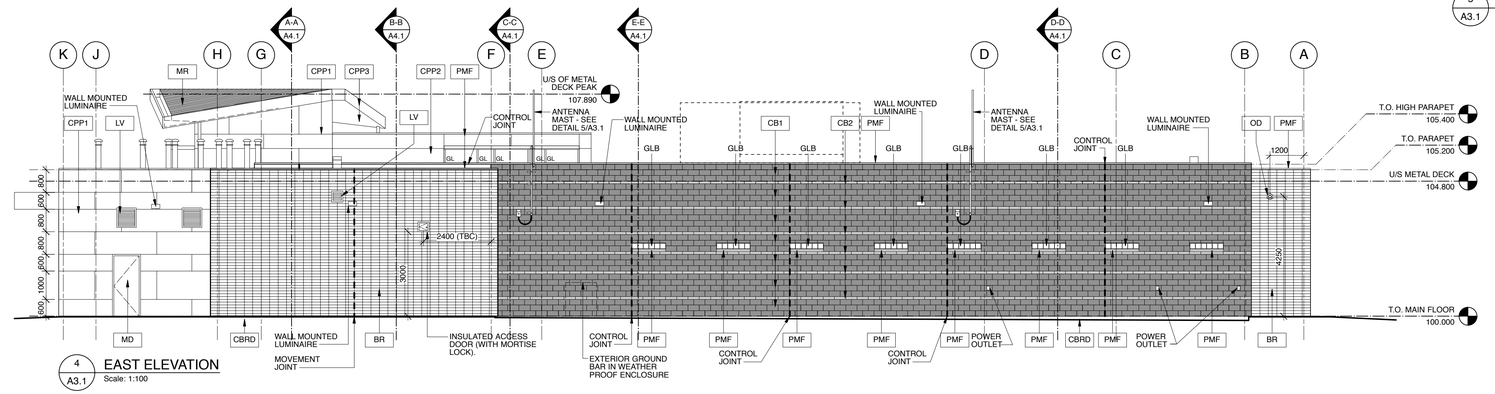
1 A3.1 **SOUTH ELEVATION**
Scale: 1:100



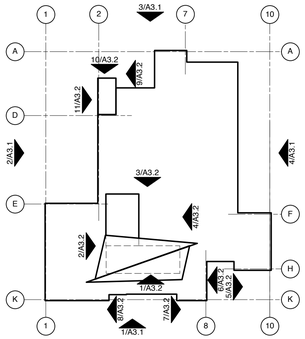
2 A3.1 **WEST ELEVATION**
Scale: 1:100



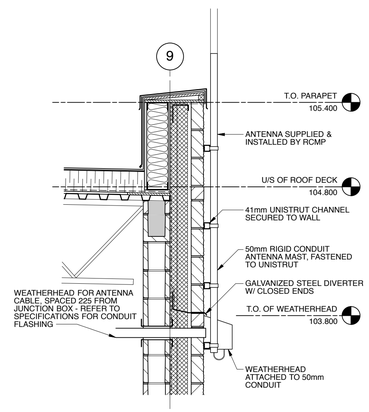
3 A3.1 **NORTH ELEVATION**
Scale: 1:100



4 A3.1 **EAST ELEVATION**
Scale: 1:100



KEYPLAN



5 A3.1 **RADIO ANTENNA SECTION**
Scale: 1:20

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LEGENDS

BR	BRICK VENEER ASPEN - MISSION.
BOL	BOLLARD - PLASTIC SLEEVE
CB1	CONCRETE BLOCK VENEER COLOUR 1 - SPLIT FACE - CHARCOAL #250
CB2	CONCRETE BLOCK VENEER COLOUR 2 - SMOOTH FACE HALF HEIGHT - NATURAL GREY
CBRD	CEMENT BOARD INSULATION
CPP1	COMPOSITE PHENOLIC PANEL COLOUR 1 - TRESPA METEON - WOOD DECORS - NW-18 - LIGHT MAHOGANY
CPP2	COMPOSITE PHENOLIC PANEL COLOUR 2 - TRESPA METEON - WOOD DECORS - NW-25 - HESBANIA
CPP3	COMPOSITE PHENOLIC PANEL COLOUR 2 - TRESPA METEON - UNI COLOURS - A05.5.0 - QUARTZ GREY
FRCP1	FIBRE REINFORCED CEMENT PANEL COLOUR 1 - FIBRE C PANEL-RIEDER IVORY - FERRO LIGHT
FRCP2	FIBRE REINFORCED CEMENT PANEL COLOUR 2 - FIBRE C PANEL-RIEDER CHROME - FERRO LIGHT
GLB	GLASS BLOCK
MD	METAL DOOR
LV	LOUVRE
MR	METAL ROOFING
MSS	METAL SIDING SYSTEM
OD	OVERFLOW DRAIN
OHD	OVERHEAD DOOR, PREFINISHED
PMF	PREFINISHED METAL FLASHING
XGS	EXTERIOR GRILLE SCREEN - SECTION 10 82 13
SP1	SPANDREL PANEL - GLAZED COLOUR 1
SP2	SPANDREL PANEL - GLAZED COLOUR 2
	CONTROL JOINT @ 6000 O.C.
	MOVEMENT JOINT @ 6000 O.C.

Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	2017-04-28	SK-ACI
2	ISSUED FOR 95% REVIEW	2017-08-08	SK-ACI
3	ISSUED FOR TENDER	2017-09-12	SK-ACI

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Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

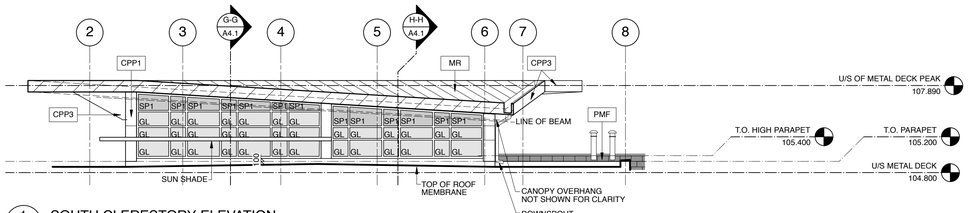
Scale	1:100	Designed By	MA
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

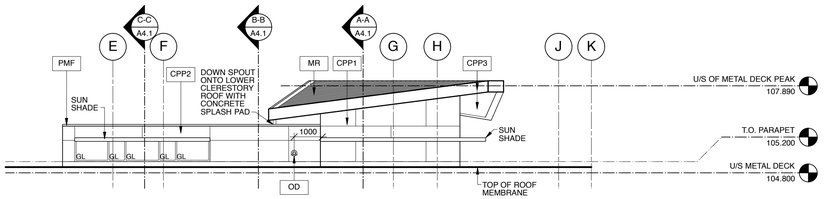
EXTERIOR ELEVATIONS

Drawing No.

A3.1



1 A3.2 SOUTH CLERESTORY ELEVATION
Scale: 1:100



2 A3.2 WEST CLERESTORY ELEVATION
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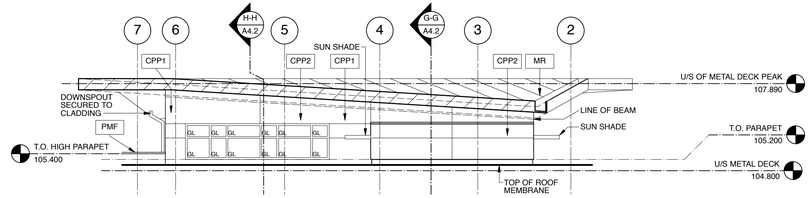
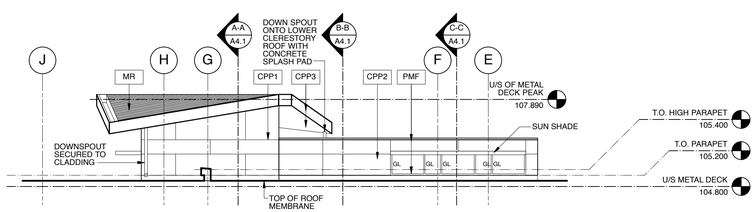
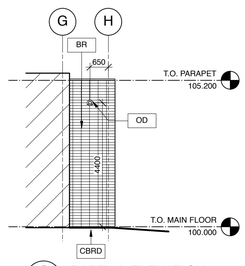


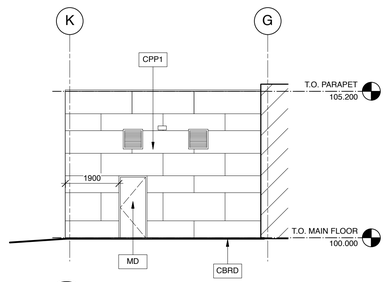
3 A3.2 NORTH ELEVATION
Scale: 1:100



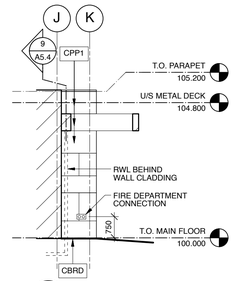
4 A3.2 EAST CLERESTORY ELEVATION
Scale: 1:100



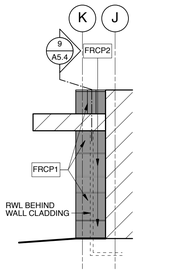
5 A3.2 PARTIAL ELEVATION
Scale: 1:100



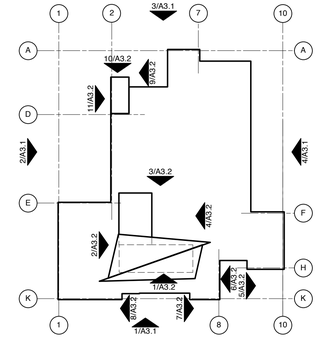
6 A3.2 PARTIAL ELEVATION
Scale: 1:100



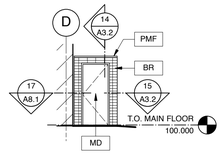
7 A3.2 PARTIAL ELEVATION
Scale: 1:100



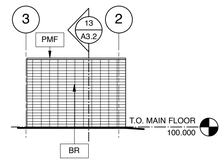
8 A3.2 PARTIAL ELEVATION
Scale: 1:100



KEYPLAN



9 A3.2 PATIO ELEVATION
Scale: 1:100



10 A3.2 PATIO ELEVATION
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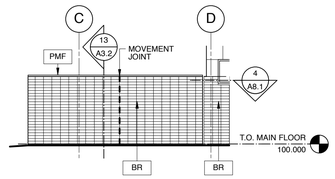

11 A3.2 PATIO ELEVATION
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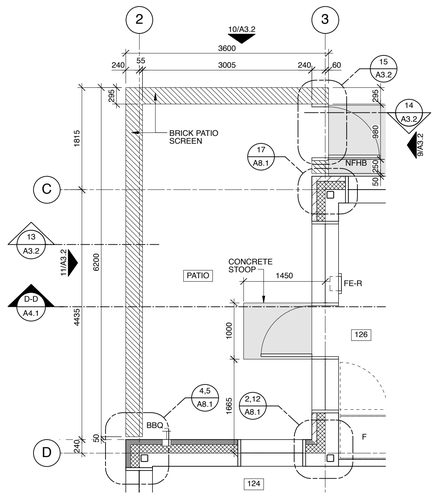
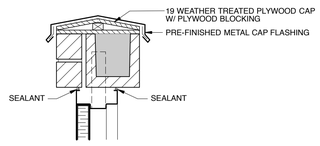
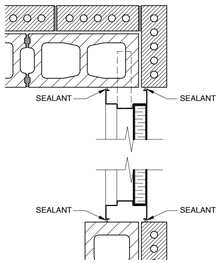


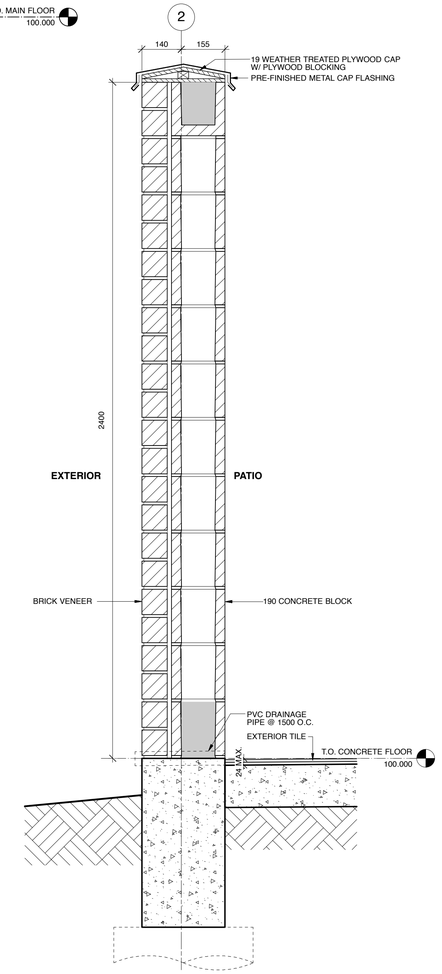
12 A2.2 ENLARGED PATIO PLAN
Scale: 1:50



14 A3.2 PATIO DOOR HEAD
Scale: 1:10



15 A3.2 PATIO DOOR JAMB
Scale: 1:10



13 A3.2 PATIO WALL SECTION
Scale: 1:10

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LEGENDS

BR	BRICK VENEER ASPEN - MISSION.
BOL	BOLLARD - PLASTIC SLEEVE
CB1	CONCRETE BLOCK VENEER COLOUR 1 - SPLIT FACE - CHARCOAL #250
CB2	CONCRETE BLOCK VENEER COLOUR 2 - SMOOTH FACE HALF HEIGHT - NATURAL GREY
CBRD	CEMENT BOARD INSULATION
CPP1	COMPOSITE PHENOLIC PANEL COLOUR 1 - TRESPA METEON - WOOD DECORS - NW-18 - LIGHT MAHOGANY
CPP2	COMPOSITE PHENOLIC PANEL COLOUR 2 - TRESPA METEON - WOOD DECORS - NW-25 - HESBANIA
CPP3	COMPOSITE PHENOLIC PANEL COLOUR 2 - TRESPA METEON - UNI COLOURS - A05.5.0 - QUARTZ GREY
FRCP1	FIBRE REINFORCED CEMENT PANEL COLOUR 1 - FIBRE C PANEL-RIEDER IVORY - FERRO LIGHT
FRCP2	FIBRE REINFORCED CEMENT PANEL COLOUR 2 - FIBRE C PANEL-RIEDER CHROME - FERRO LIGHT
GLB	GLASS BLOCK
MD	METAL DOOR
LV	LOUVRE
MR	METAL ROOFING
MSS	METAL SIDING SYSTEM
OD	OVERFLOW DRAIN
OHD	OVERHEAD DOOR, PREFINISHED
PMF	PREFINISHED METAL FLASHING
XGS	EXTERIOR GRILLE SCREEN - SECTION 10 82 13
SP1	SPANDREL PANEL - GLAZED COLOUR 1
SP2	SPANDREL PANEL - GLAZED COLOUR 2
— — —	CONTROL JOINT @ 6000 O.C.
	MOVEMENT JOINT @ 6000 O.C.

Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	2017-04-28	SK-ACI
2	ISSUED FOR 95% REVIEW	207-08-08	SK-ACI
3	ISSUED FOR TENDER	2017-09-12	SK-ACI

Seal

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

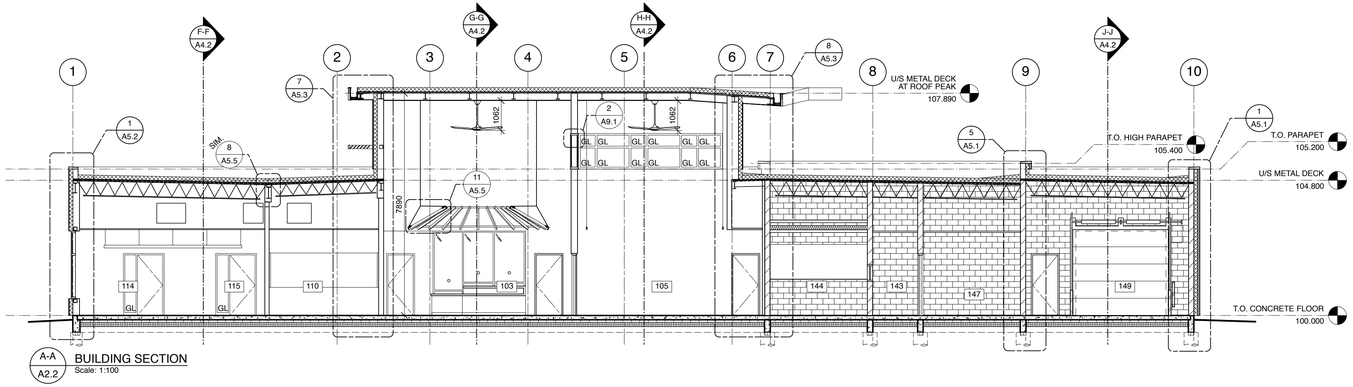
Scale	AS NOTED	Designed By	MA
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

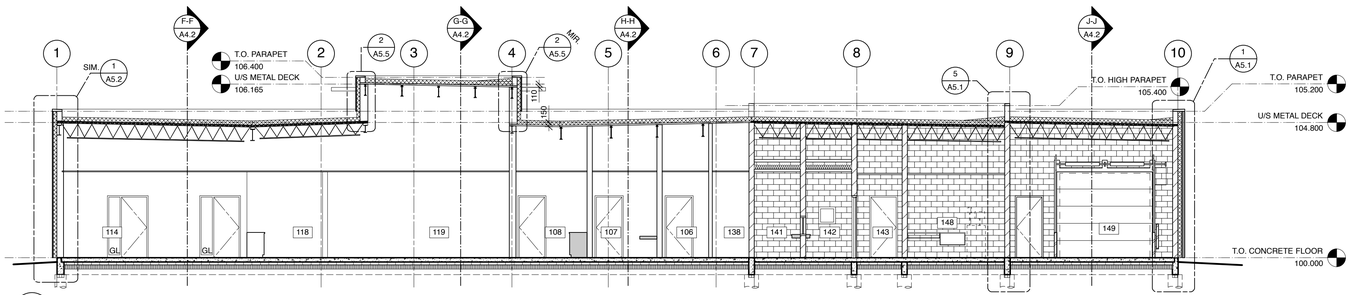
EXTERIOR ELEVATIONS, PATIO PLAN AND SECTIONS

Drawing No.

A3.2



A-A A2.2 BUILDING SECTION
Scale: 1:100



B-B A2.2 BUILDING SECTION
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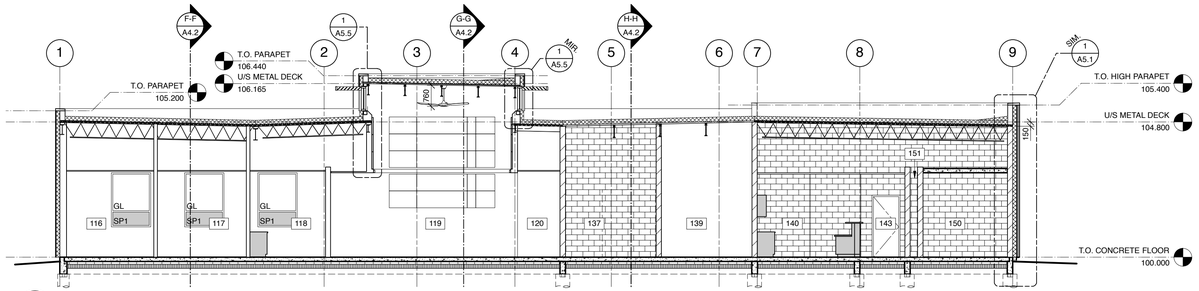

C-C A2.2 BUILDING SECTION
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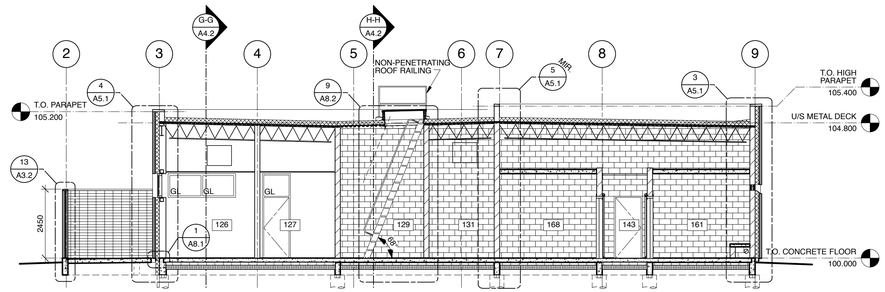

D-D A2.2 BUILDING SECTION
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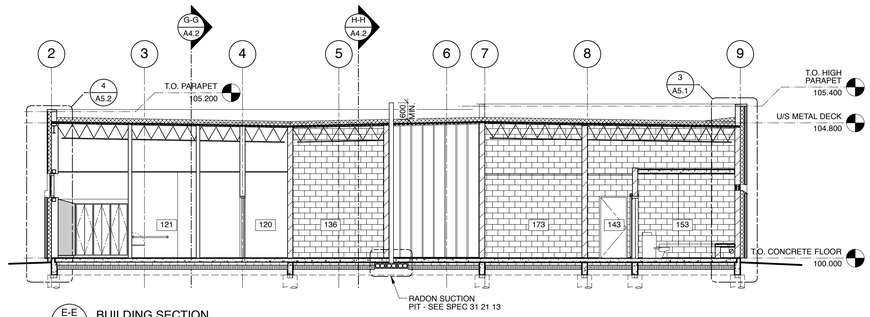

E-E A2.2 BUILDING SECTION
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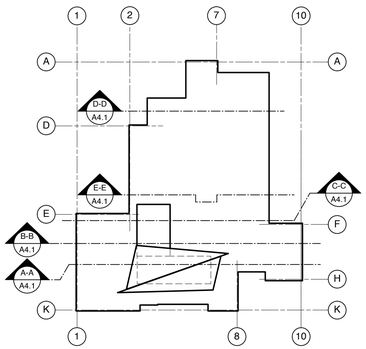

KEYPLAN

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Seal

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

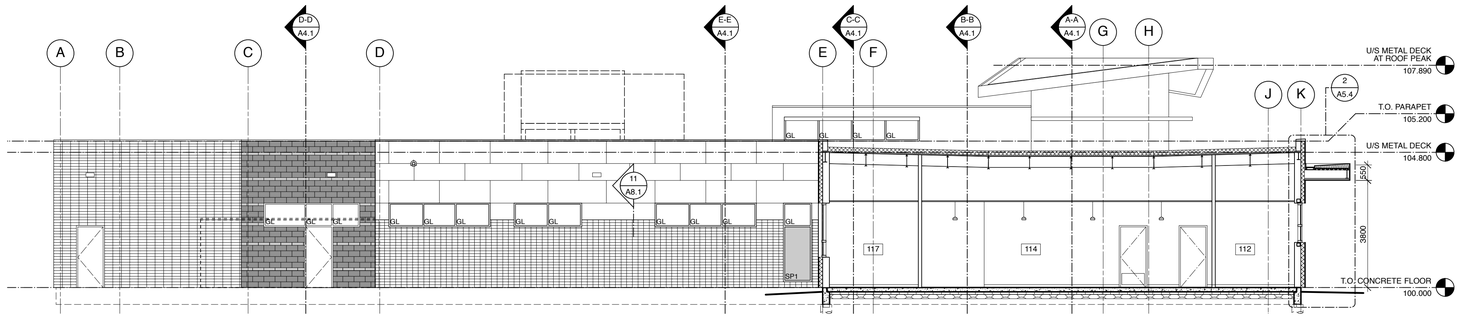
Scale	1:100	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

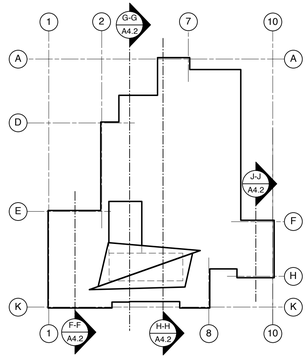
BUILDING SECTIONS

Drawing No.

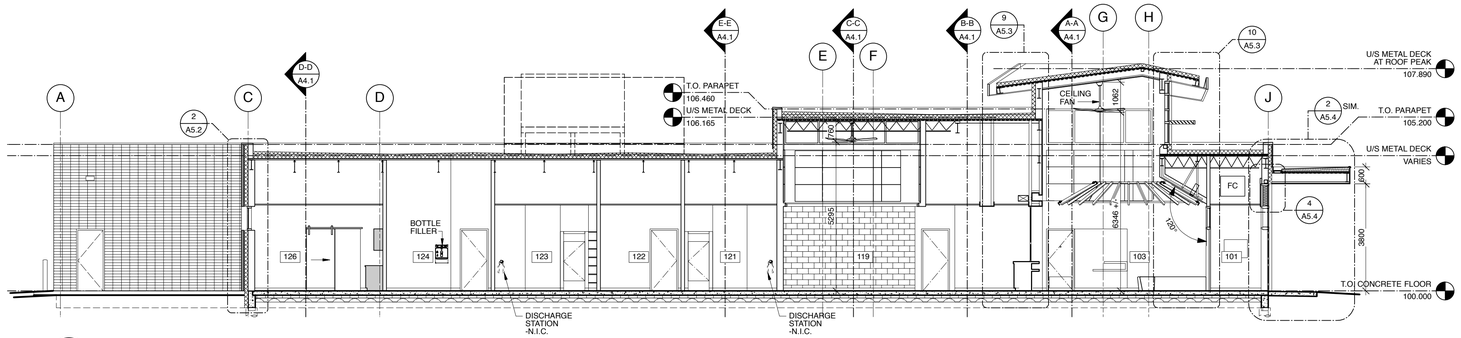
A4.1



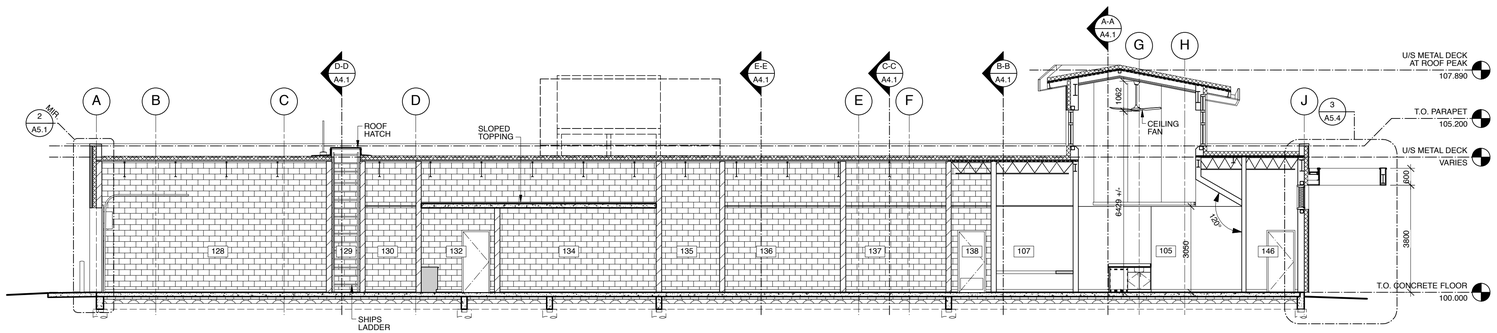
F-F A2.2 **BUILDING SECTION**
Scale: 1:100



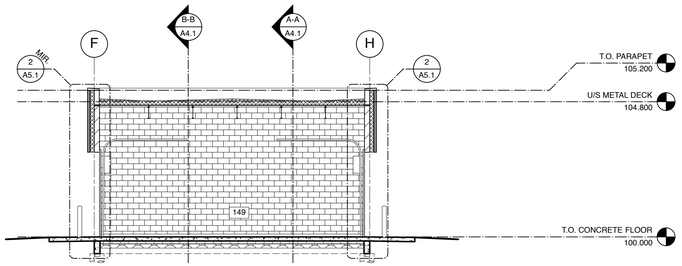
KEYPLAN



G-G A2.2 **BUILDING SECTION**
Scale: 1:100



H-H A2.2 **BUILDING SECTION**
Scale: 1:100



J-J A2.2 **BUILDING SECTION**
Scale: 1:100

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Seal

Client

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Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

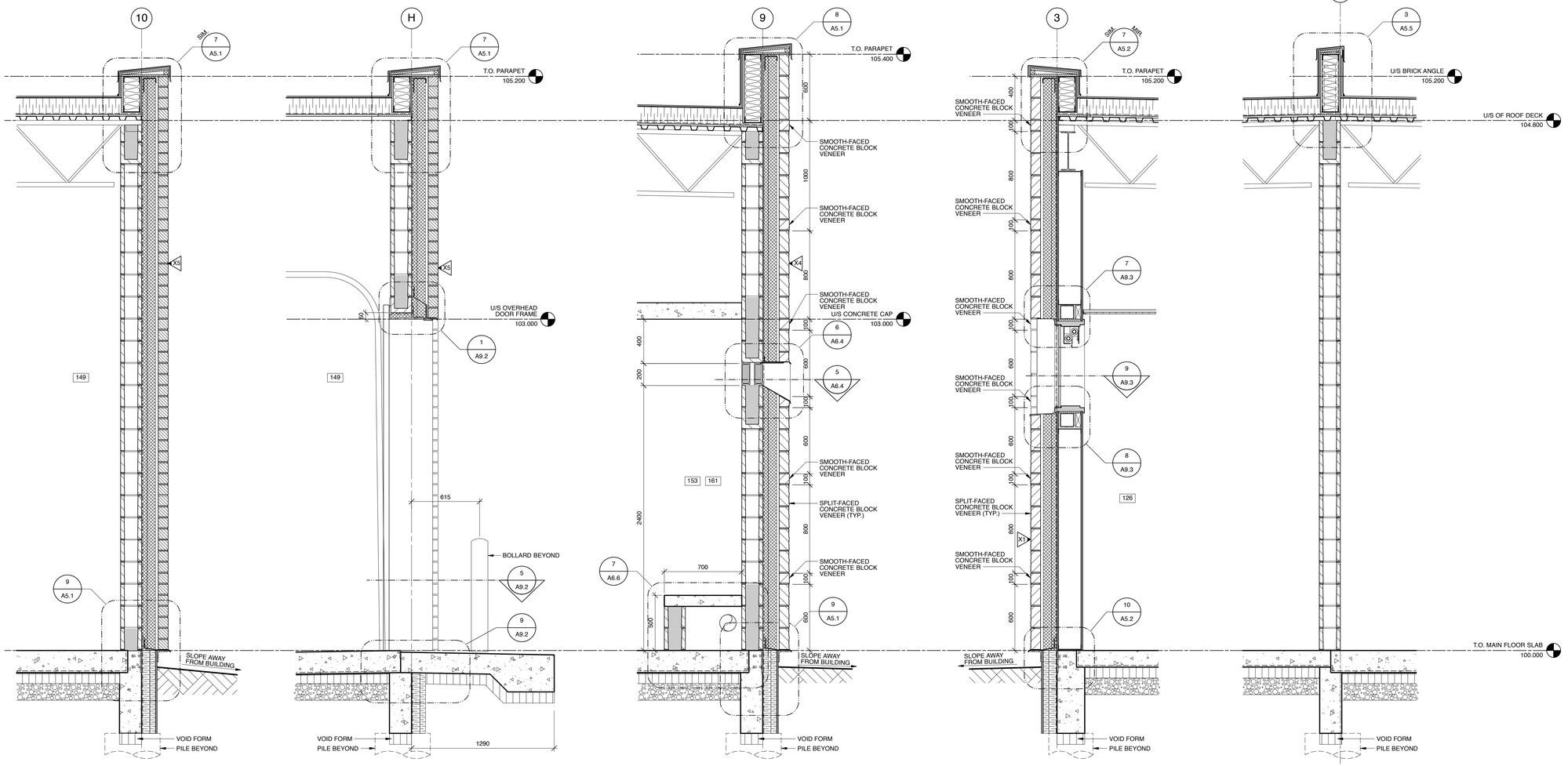
Scale	1:100	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

BUILDING SECTIONS

Drawing No.

A4.2



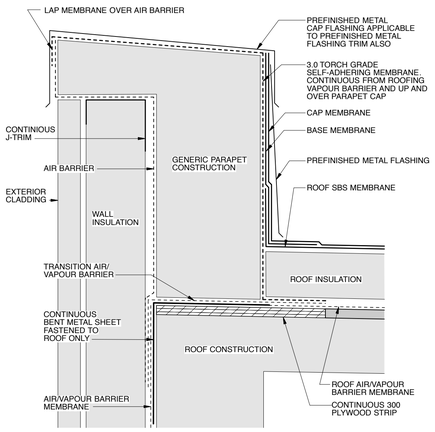
1 A4.1 WALL SECTION
Scale: 1:20

2 A4.2 WALL SECTION
Scale: 1:20

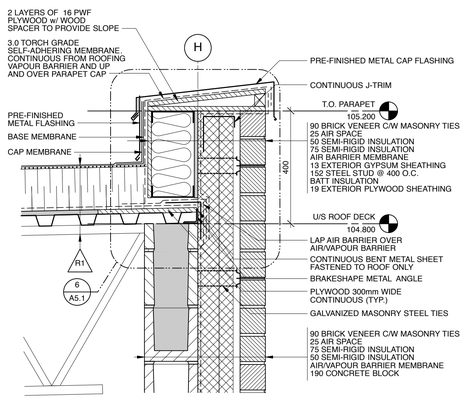
3 A4.1 WALL SECTION
Scale: 1:20

4 A4.1 WALL SECTION
Scale: 1:20

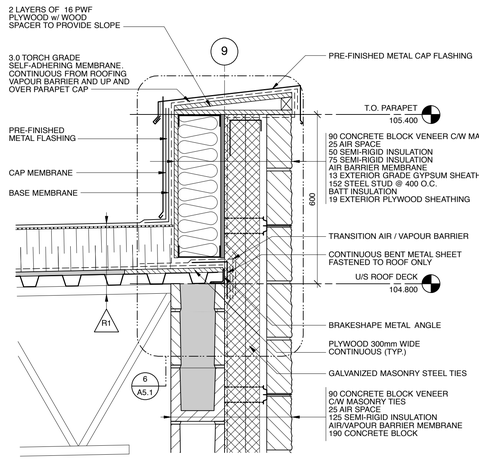
5 A4.1 WALL SECTION
Scale: 1:20



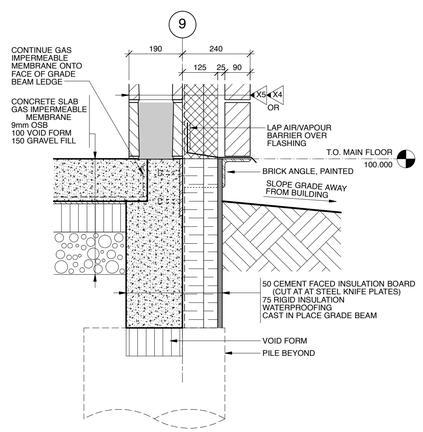
6 A5.1 TYPICAL MEMBRANE SECTION - PARAPET
NOT TO SCALE
APPLICABLE TO ALL PARAPET CONDITIONS



7 A5.1 ROOF PARAPET DETAIL
Scale: 1:10



8 A5.1 ROOF PARAPET DETAIL
Scale: 1:10



9 A5.1 SECTION @ WALL FOUNDATION
Scale: 1:10

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Scale	1:100	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

WALL SECTIONS

Drawing No.

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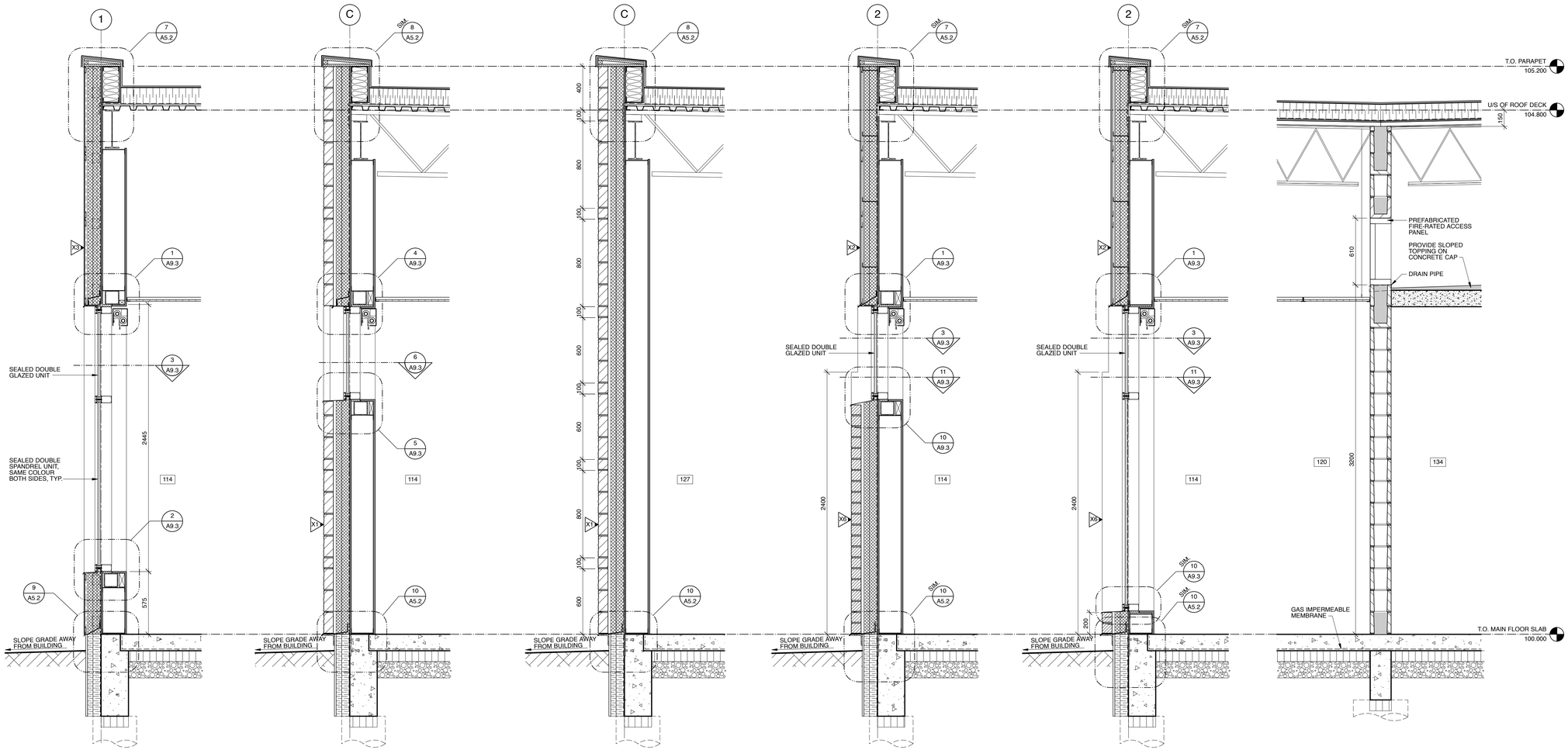


1 A4.1 WALL SECTION
Scale: 1:20

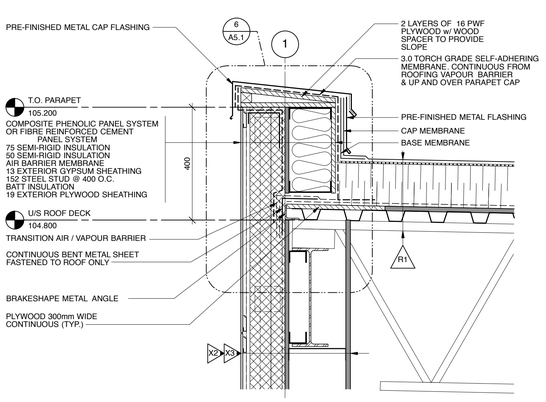
2 A4.2 WALL SECTION
Scale: 1:20

3 A2.2 WALL SECTION
Scale: 1:20

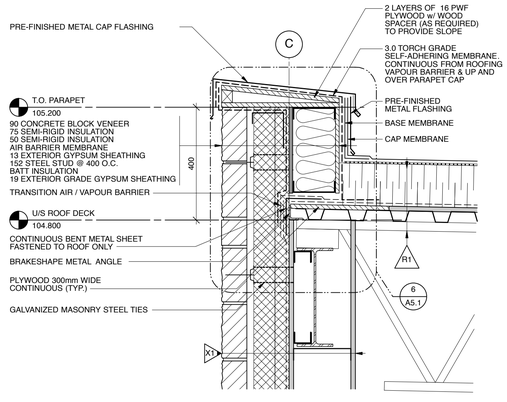
4 A4.1 WALL SECTION
Scale: 1:20

5 A2.2 WALL SECTION
Scale: 1:20

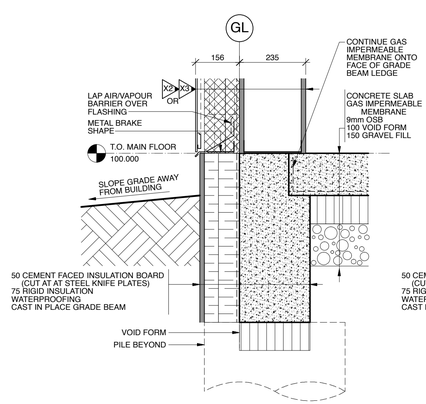
6 A2.2 WALL SECTION
Scale: 1:20



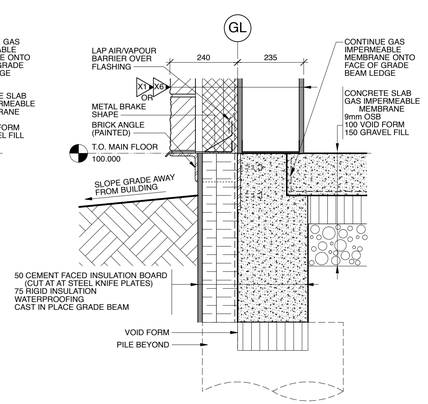
7 A5.2 ROOF PARAPET DETAIL
Scale: 1:10



8 A5.2 ROOF PARAPET DETAIL
Scale: 1:10



9 A5.2 SECTION @ WALL FOUNDATION
Scale: 1:10



10 A5.2 SECTION @ WALL FOUNDATION
Scale: 1:10

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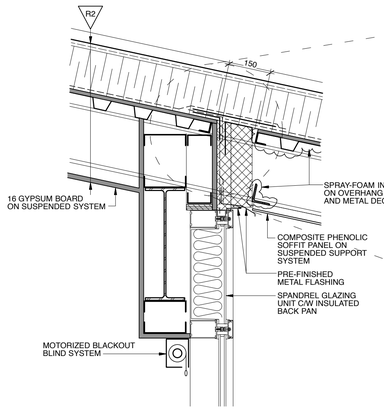
Scale	1:100	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

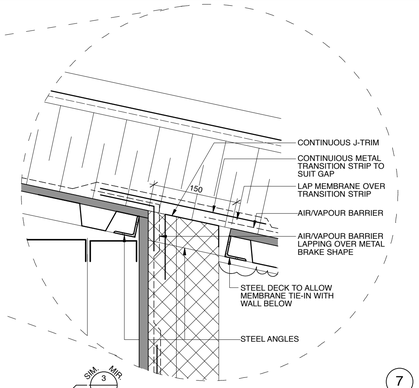
Drawing Title

WALL SECTIONS

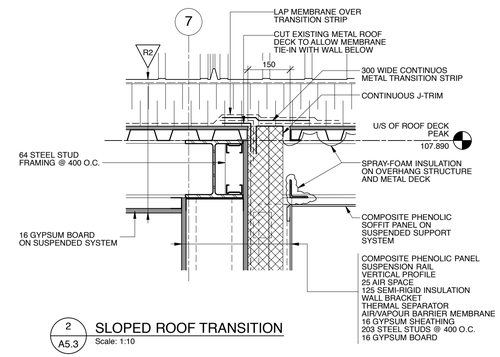
Drawing No.

A5.2

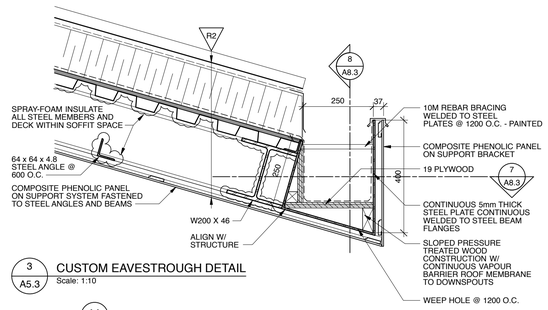




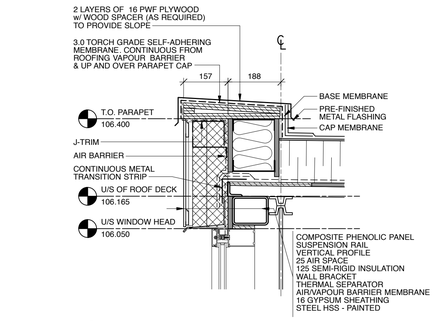
1 A5.3 SLOPED ROOF TRANSITION
Scale: 1:10



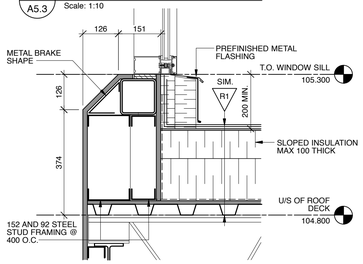
2 A5.3 SLOPED ROOF TRANSITION
Scale: 1:10



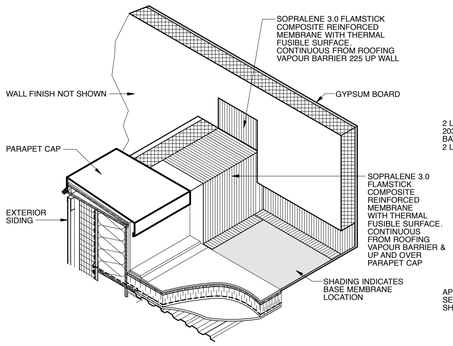
3 A5.3 CUSTOM EAVESTROUGH DETAIL
Scale: 1:10



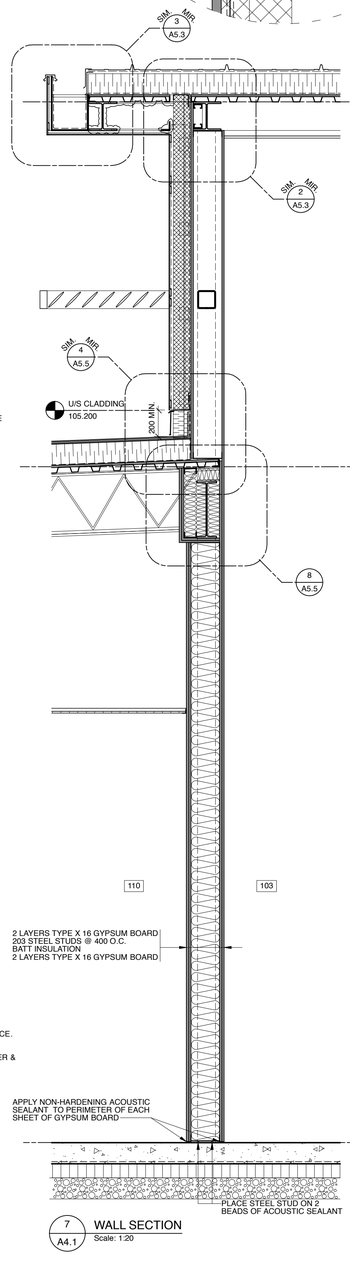
4 A5.3 HIGH ROOF PARAPET DETAIL
Scale: 1:10



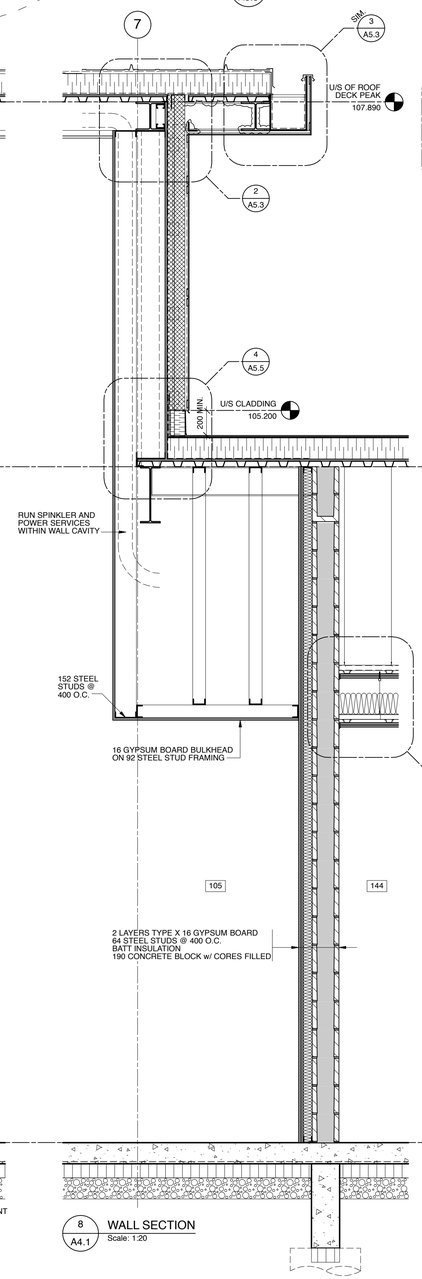
5 A5.3 CLERESTORY ROOF TRANSITION
Scale: 1:10



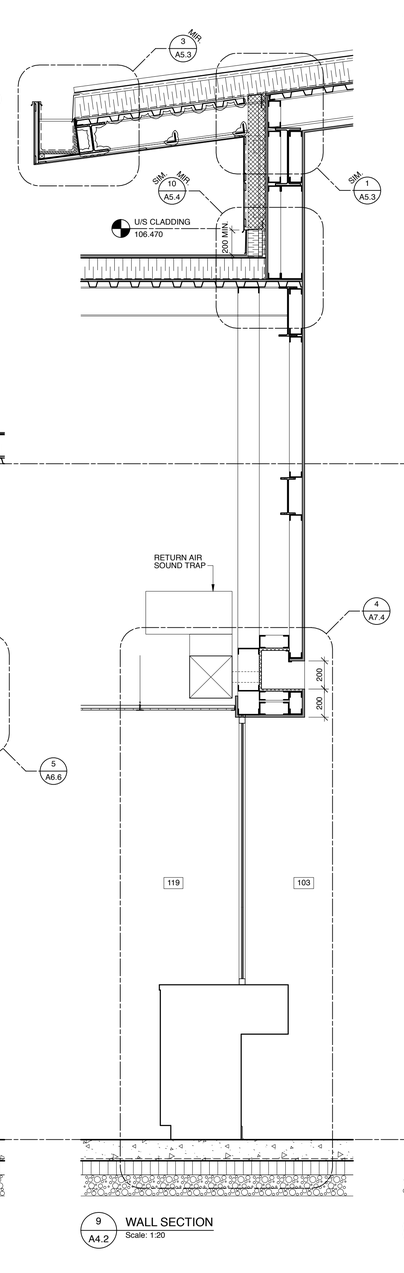
6 A2.3 TYPICAL ISOMETRIC PARAPET/ ROOF/ WALL JUNCTION
N.T.S.



7 A4.1 WALL SECTION
Scale: 1:20



8 A4.1 WALL SECTION
Scale: 1:20



9 A4.2 WALL SECTION
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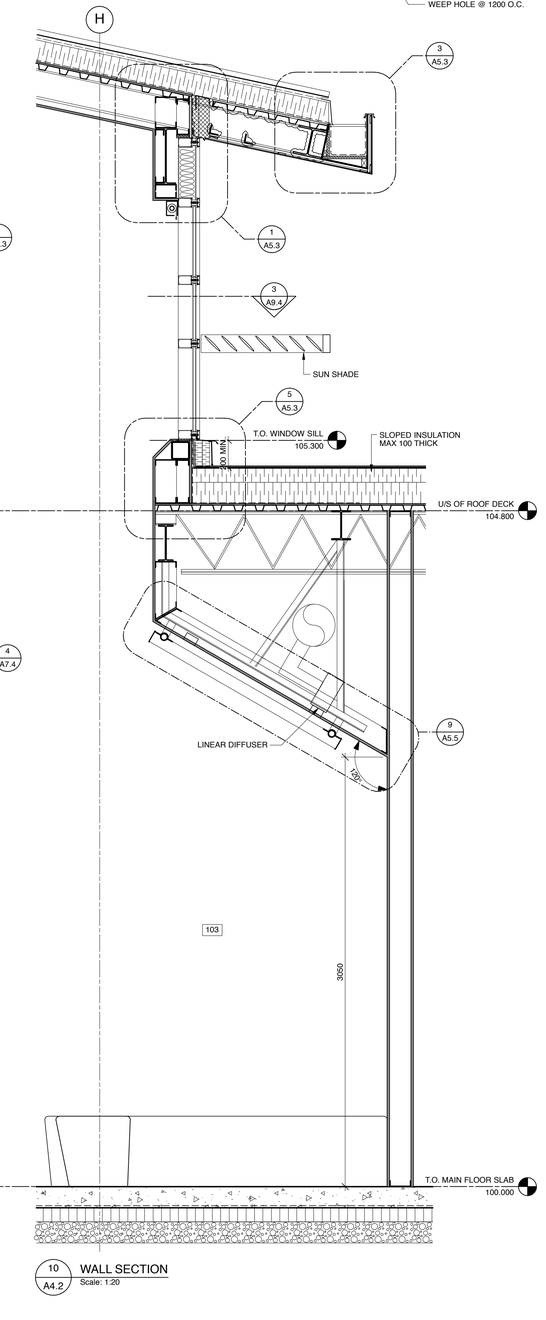

10 A4.2 WALL SECTION
Scale: 1:20

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2	ISSUED FOR 95% REVIEW	2017-08-08	SK-ACI
3	ISSUED FOR TENDER	2017-09-12	SK-ACI

Seal

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

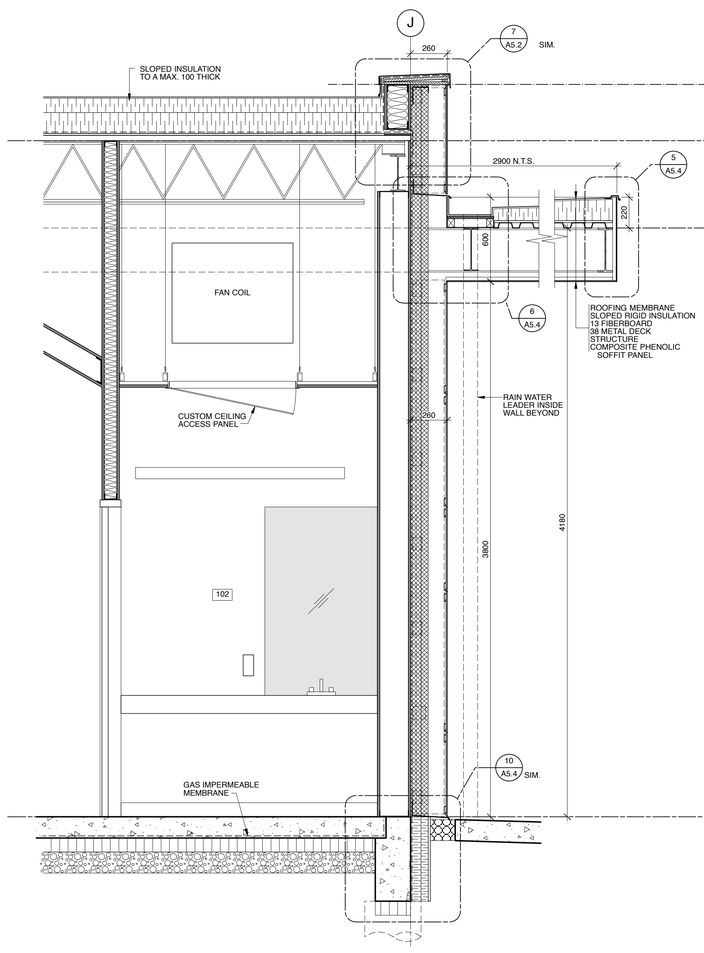
Scale	1:100	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

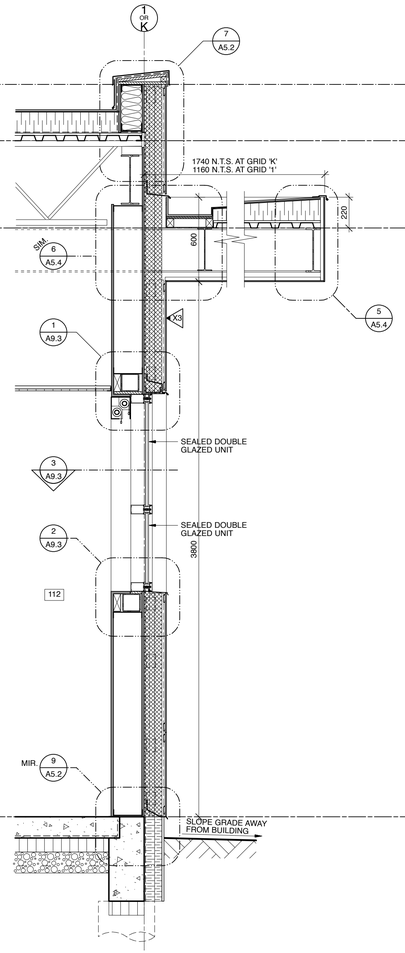
WALL SECTIONS

Drawing No.

A5.3



1 A2.2 WALL SECTION
Scale: 1:20



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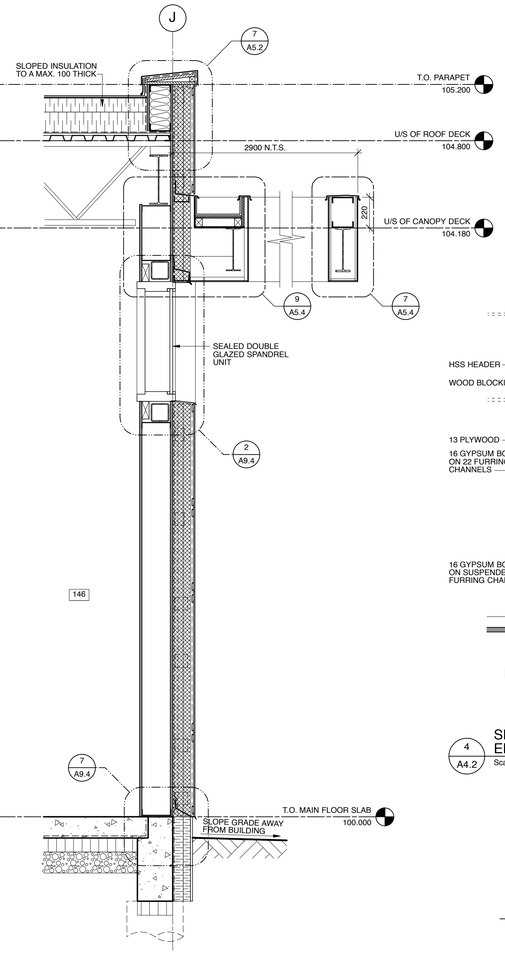

3 A4.2 WALL SECTION
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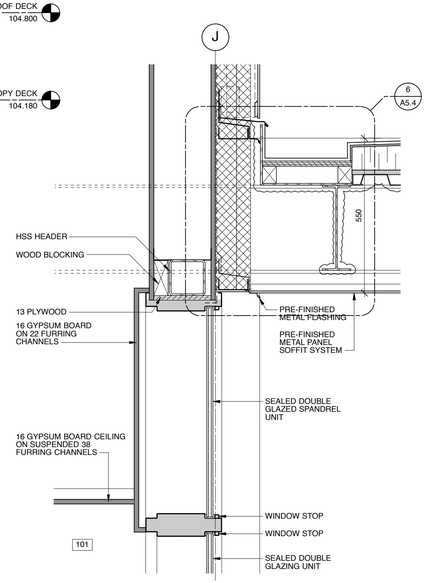
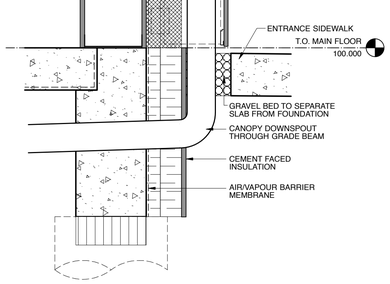
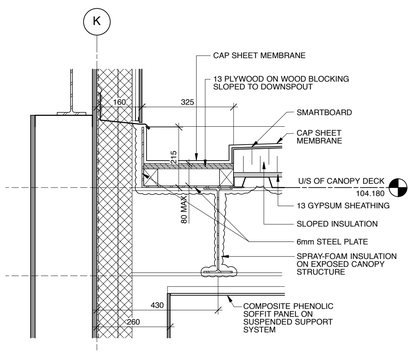


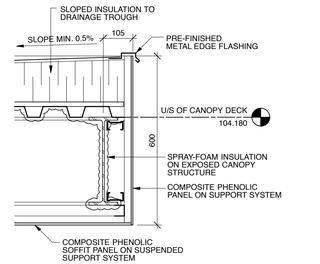
4 A4.2 SECTION - PRESSED STEEL ENTRANCE SPANDREL PANEL
Scale: 1:10



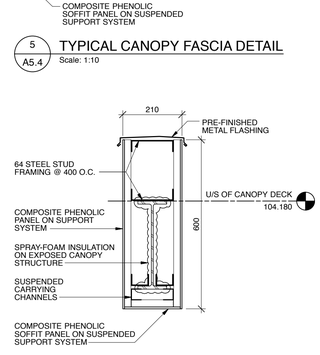
10 A5.4 CANOPY DOWNSPOUT AT FOUNDATION SECTION
Scale: 1:10



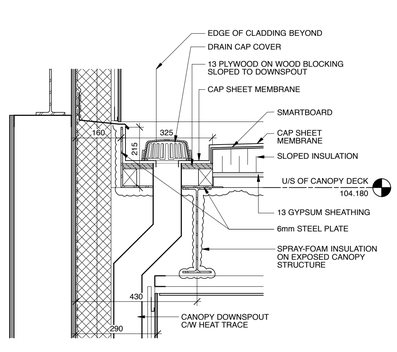
6 A5.4 CANOPY DRAINAGE TROUGH SECTION
Scale: 1:10



5 A5.4 TYPICAL CANOPY FASCIA DETAIL
Scale: 1:10



7 A5.4 CANOPY FASCIA DETAIL @ OPENING
Scale: 1:10



8 A2.3 CANOPY DOWNSPOUT SECTION
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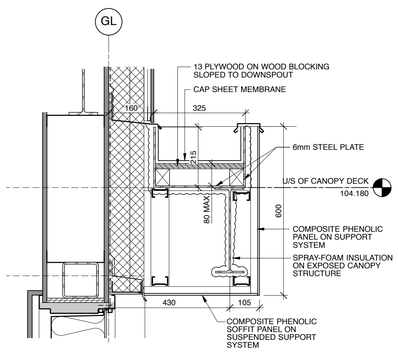

9 A5.4 CANOPY DRAINAGE TROUGH SECTION
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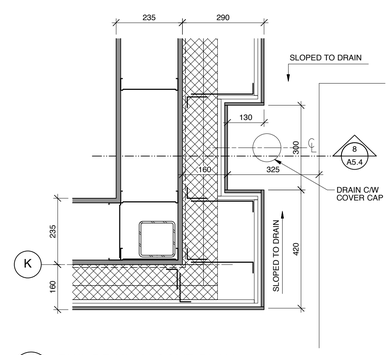

11 A2.3 RWL DRAIN ALCOVE PLAN
Scale: 1:10

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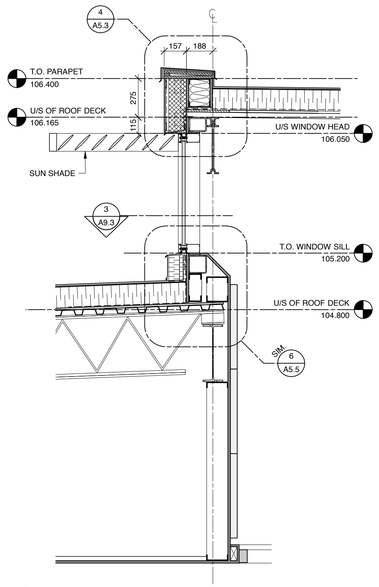
Scale	1:100	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

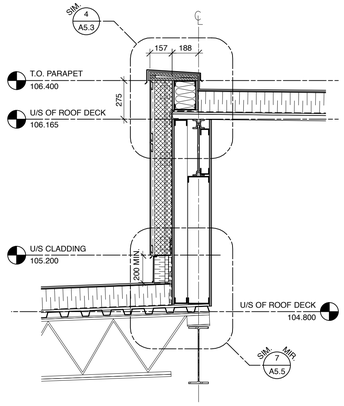
WALL SECTIONS

Drawing No.

A5.4



1 A4.1 PARTIAL WALL SECTION
Scale: 1:20



2 A4.1 PARTIAL WALL SECTION
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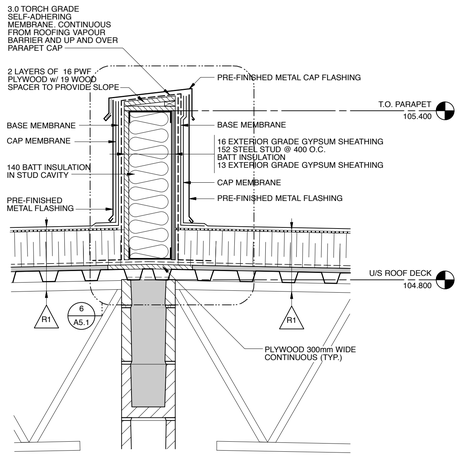
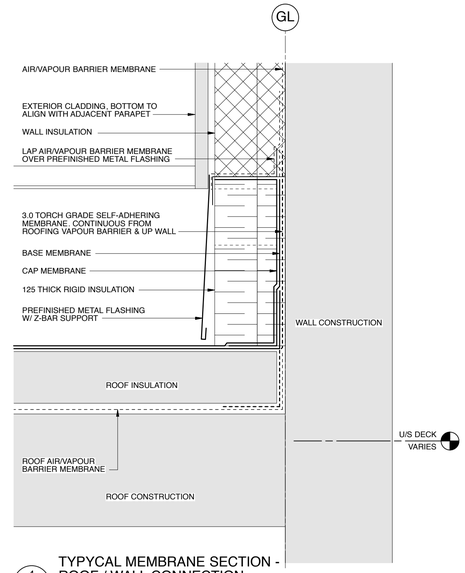
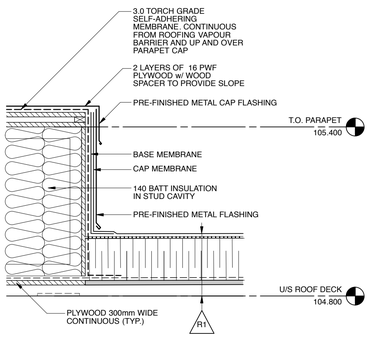


3 A5.1 ROOF PARAPET DETAIL
Scale: 1:10



4 A5.5 TYPYCAL MEMBRANE SECTION - ROOF / WALL CONNECTION
NOT TO SCALE
APPLICABLE TO ALL ROOF LOCATIONS



5 A2.3 END OF PARAPET SECTION
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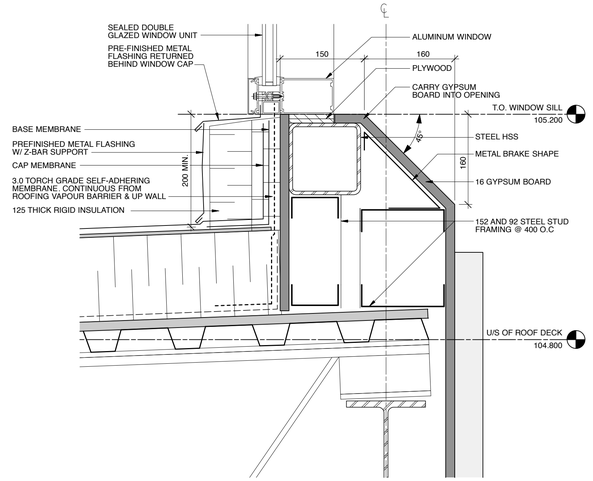
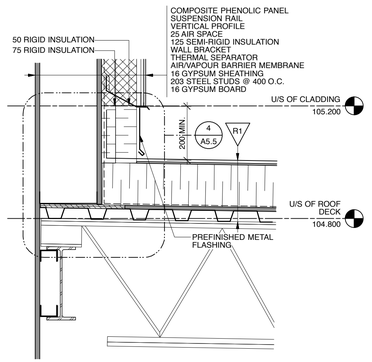
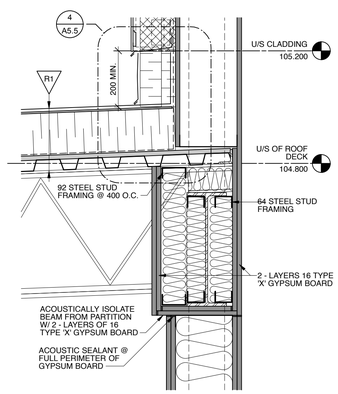


6 A5.5 SECTION - CLERESTORY WINDOW SILL ABOVE ROOM 119
Scale: 1:5



7 A5.5 VERTICAL WALL - ROOF TRANSITION
Scale: 1:10



8 A5.5 ACOUSTIC BEAM ISOLATION
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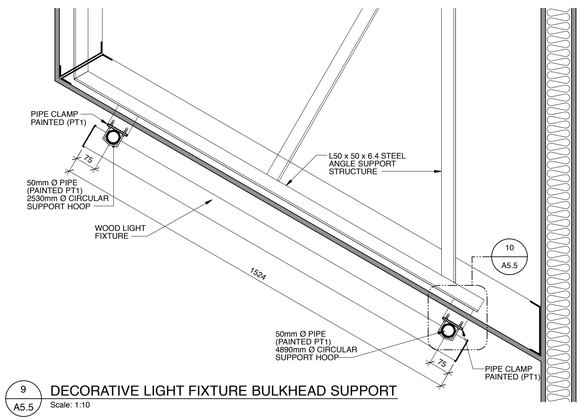
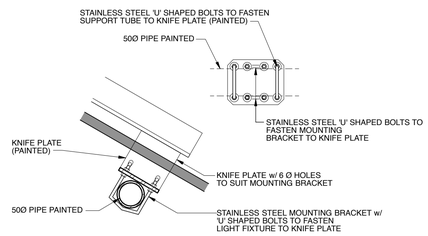
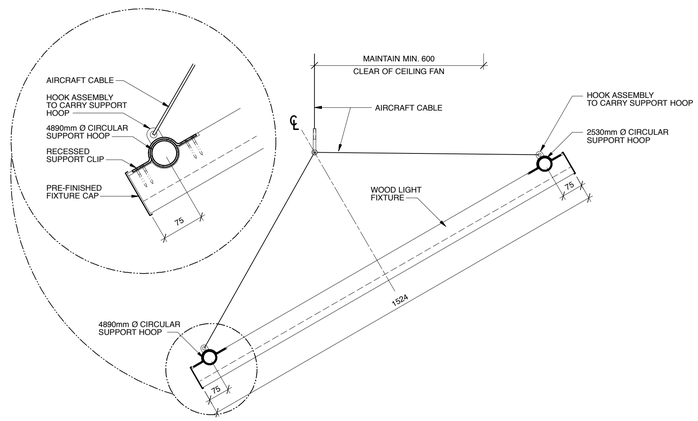


9 A5.5 DECORATIVE LIGHT FIXTURE BULKHEAD SUPPORT
Scale: 1:10



10 A5.5 LIGHT FIXTURE SUPPORT DETAIL
Scale: 1:5



11 A4.1 DECORATIVE LIGHT FIXTURE CABLE SUPPORT
Scale: 1:10

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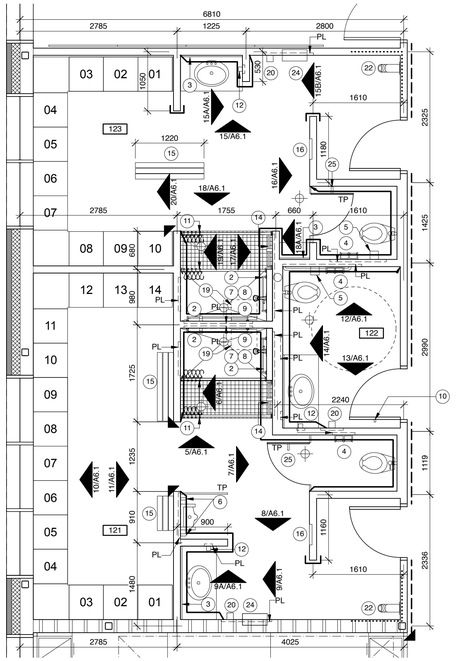
Scale	1:100	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

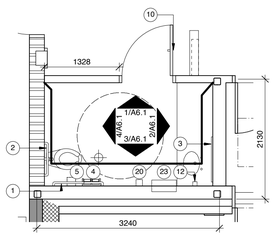
PARTIAL WALL SECTIONS AND DETAILS

Drawing No.

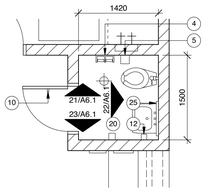
A5.5



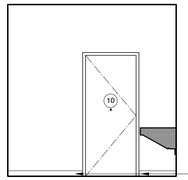
1 A2.2 ENLARGED ROOM 121-123 FLOOR PLAN
Scale: 1:50



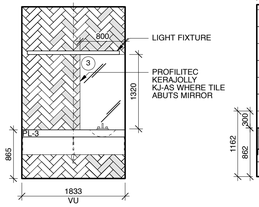
2 A2.2 ROOM 102 FLOOR PLAN
Scale: 1:50



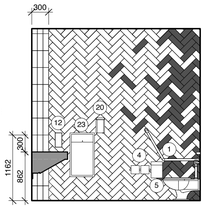
3 A2.2 ROOM 174 FLOOR PLAN
Scale: 1:50



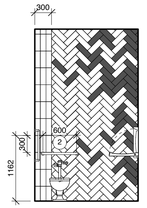
1 A6.1 ROOM 102 ELEVATION - NORTH
Scale: 1:50



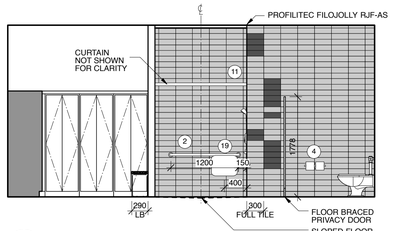
2 A6.1 ROOM 102 ELEVATION - EAST
Scale: 1:50



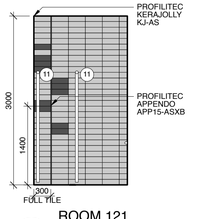
3 A6.1 ROOM 102 ELEVATION - SOUTH
Scale: 1:50



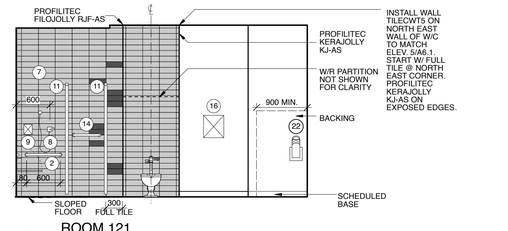
4 A6.1 ROOM 102 ELEVATION - WEST
Scale: 1:50



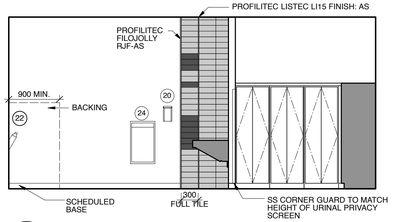
5 A6.1 ROOM 121 ELEVATION - NORTH
Scale: 1:50



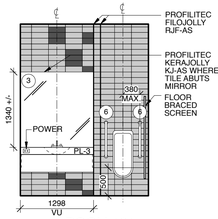
6 A6.1 ROOM 121 ELEVATION - WEST
Scale: 1:50



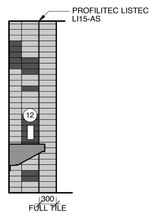
7 A6.1 ROOM 121 ELEVATION - EAST
Scale: 1:50



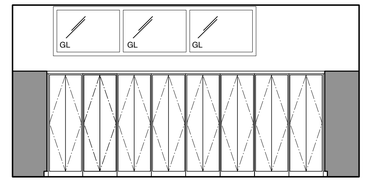
8 A6.1 ROOM 121 ELEVATION - SOUTH
Scale: 1:50



9 A6.1 ROOM 121 ELEVATION - WEST
Scale: 1:50



9A A6.1 ELEVATION NORTH
Scale: 1:50



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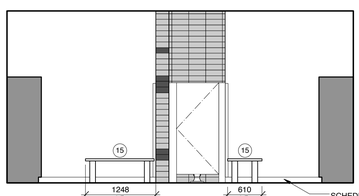
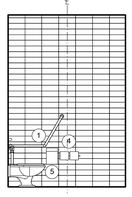
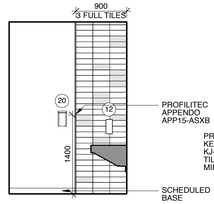
Scale: 1:50



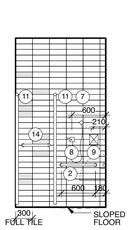
11 A6.1 ROOM 121 ELEVATION - WEST
Scale: 1:50



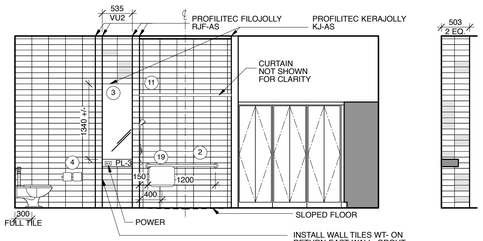
12 A6.1 ROOM 122 ELEVATION - NORTH
Scale: 1:50



13 A6.1 ROOM 122 ELEVATION - SOUTH
Scale: 1:50

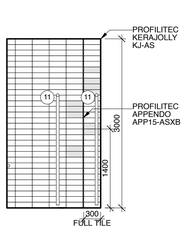


17 A6.1 ROOM 123 ELEVATION WEST
Scale: 1:50

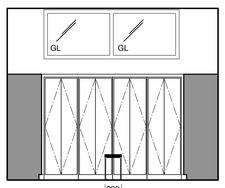


18 A6.1 ROOM 123 ELEVATION - SOUTH
Scale: 1:50

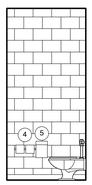
18A A6.1 ROOM 123 ELEV. EAST
Scale: 1:50



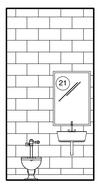
19 A6.1 ROOM 123 ELEVATION - EAST
Scale: 1:50



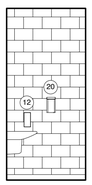
20 A6.1 ROOM 123 ELEVATION - WEST
Scale: 1:50



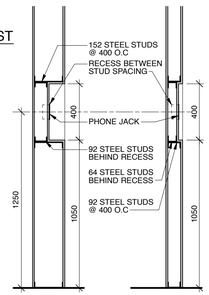
21 A6.1 ROOM 174 ELEVATION - NORTH
Scale: 1:50



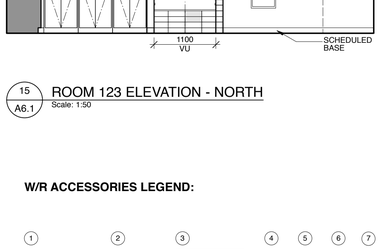
22 A6.1 ROOM 174 ELEVATION - EAST
Scale: 1:50



23 A6.1 ROOM 174 ELEVATION - SOUTH
Scale: 1:50

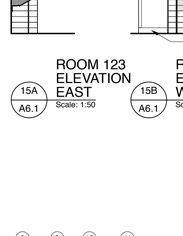


24 A6.1 TELEPHONE RECESS
NOT TO SCALE



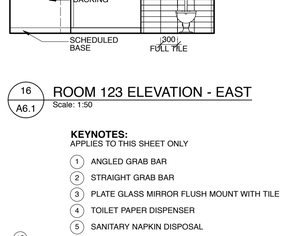
14 A6.1 ROOM 122 ELEVATION - WEST
Scale: 1:50

15 A6.1 ROOM 123 ELEVATION - NORTH
Scale: 1:50



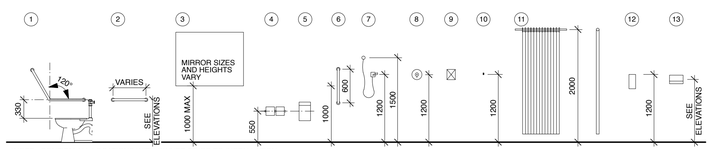
15A A6.1 ROOM 123 ELEVATION EAST
Scale: 1:50

15B A6.1 ROOM 123 ELEVATION WEST
Scale: 1:50

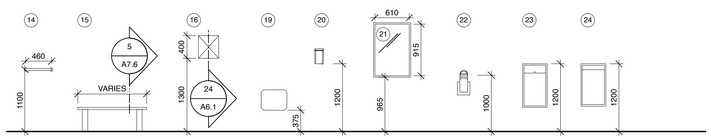


16 A6.1 ROOM 123 ELEVATION - EAST
Scale: 1:50

W/R ACCESSORIES LEGEND:



*NOTE: CONFIRM ALL LOCATIONS WITH OWNER PRIOR TO INSTALLATION



*NOTE: CONFIRM ALL LOCATIONS WITH OWNER PRIOR TO INSTALLATION

KEYNOTES:
APPLIES TO THIS SHEET ONLY

1. ANGLED GRAB BAR
2. STRAIGHT GRAB BAR
3. PLATE GLASS MIRROR FLUSH MOUNT WITH TILE
4. TOILET PAPER DISPENSER
5. SANITARY NAPKIN DISPOSAL
6. VERTICALLY MOUNTED GRAB BAR
7. BARRIER FREE SHOWER HEAD AND CONTROL
8. SINGLE LEVEL SHOWER CONTROL
9. RECESSED SOAP DISPENSER
10. SINGLE ROBE HOOK
11. SHOWER ROD AND CURTAIN
12. SURFACE MOUNTED SOAP DISPENSER
13. SURFACE MOUNTED PAPER TOWEL DISPENSER
14. TOWEL BAR
15. BENCH (MILLWORK)
16. RECESSED TELEPHONE
17. DELETED
18. DELETED
19. FOLD DOWN SHOWER SEAT C/W WALL BACKING
20. HAND DRYER
21. FRAMED MIRROR
22. OWNER EQUIPMENT N.I.C. - PROVIDE BALLISTIC WALL BACKING
23. LOCKABLE SEMI RECESSED WASTE RECEPTACLE
24. SEMI RECESSED WASTE RECEPTACLE
25. COMBINATION CLOTHES HOOK AND BUMPER INCLUDED WITH TOILET PARTITION

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LEGEND:

- WALL PROTECTION
- STAINLESS STEEL CORNER GUARDS. REFER TO ELEVATION FOR HEIGHTS
- STAINLESS STEEL EDGE GUARDS TO SUIT END OF PARTITION WALLS. REFER TO ELEVTIONS FOR HEIGHTS
- LOCATIONS OF CERAMIC WALL TILE ON PLAN. REFER TO ELEVATIONS FOR LAYOUT AND REFER TO A10.1 FINISHES PLAN FOR COLOUR LEGEND
- BALLISTIC WALL PROTECTION BACKING

ABBREVIATIONS:

TP TOILET PARTITION

Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	2017-04-28	SK-ACI
2	ISSUED FOR 95% REVIEW	2017-08-08	SK-ACI
3	ISSUED FOR TENDER	2017-09-12	SK-ACI

Seal

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

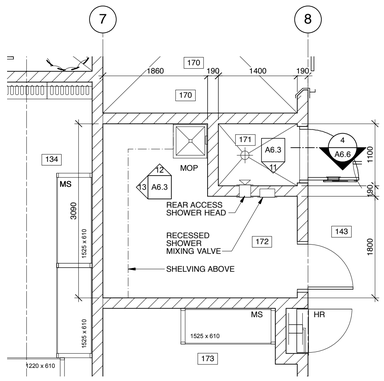
Scale	1:100	Designed By	LT/ CH
Project No.	9031	Drawn By	CH
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

WASHROOM FLOOR PLANS AND INTERIOR ELEVATIONS

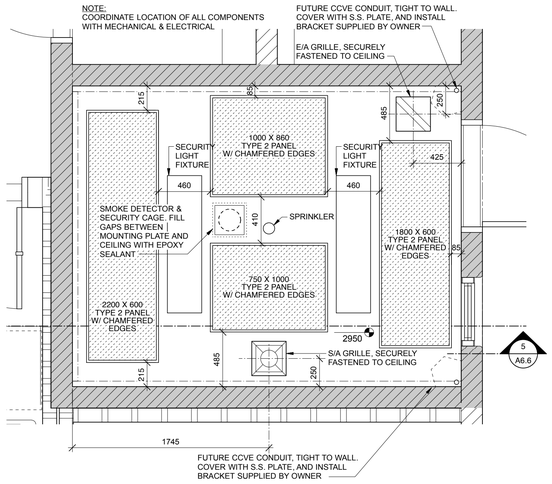
Drawing No.

A6.1



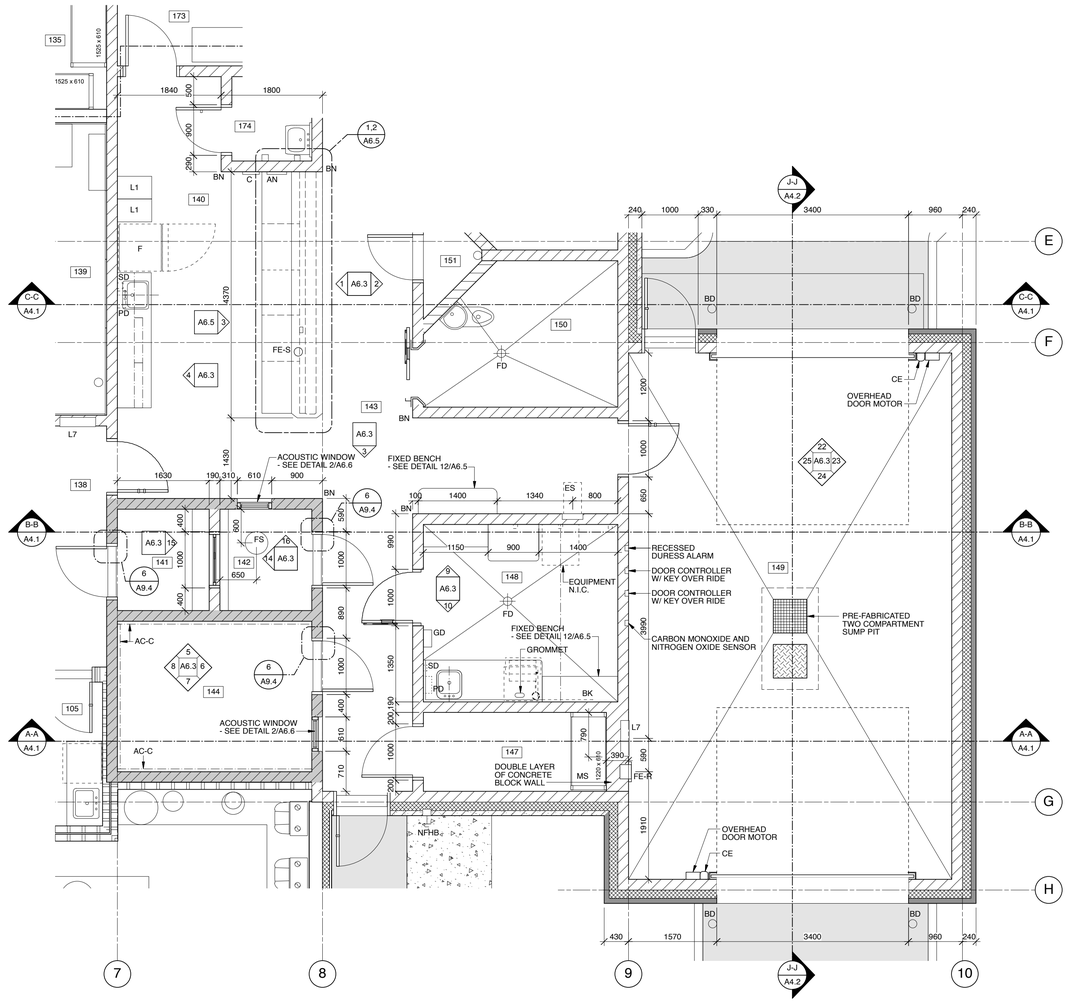
1 A2.2 ENLARGED FLOOR PLAN

Scale: 1:50



2 A2.4 ROOM 144 REFLECTED CEILING PLAN

Scale: 1:25



3 A2.2 ENLARGED FLOOR PLAN

Scale: 1:50

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Seal

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS
GOVERNMENT BUILDING

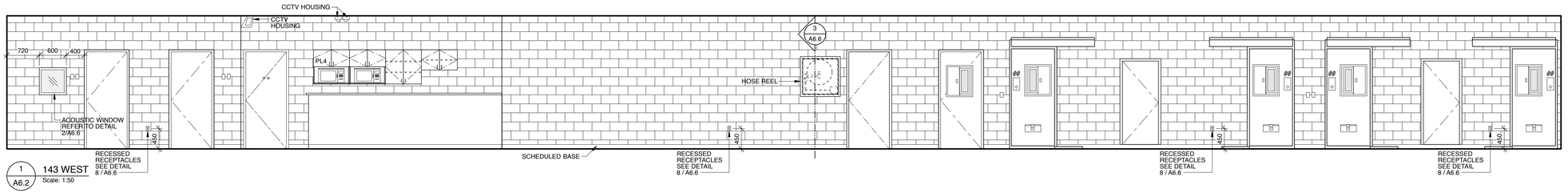
Scale	1:50	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

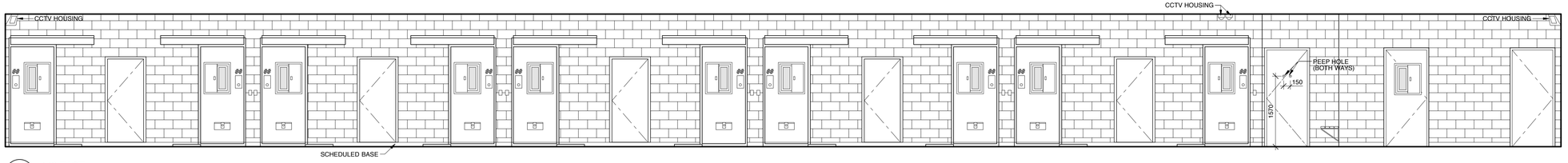
ENLARGED FLOOR PLANS

Drawing No.

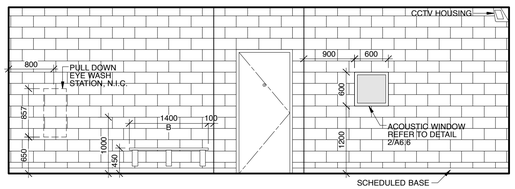
A6.2



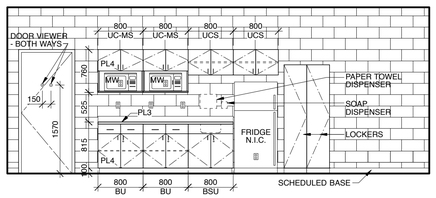
1 A6.2 **143 WEST** Scale: 1:50



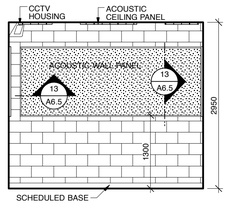
2 A6.2 **143 EAST** Scale: 1:50



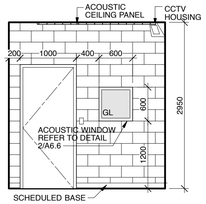
3 A6.2 **143 SOUTH** Scale: 1:50



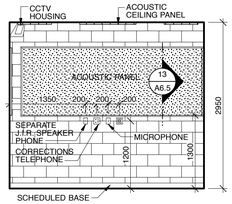
4 A6.2 **140 WEST** Scale: 1:50



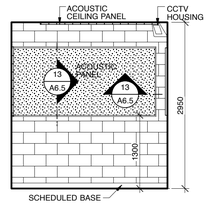
5 A6.2 **144 NORTH** Scale: 1:50



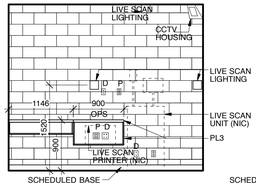
6 A6.2 **144 EAST** Scale: 1:50



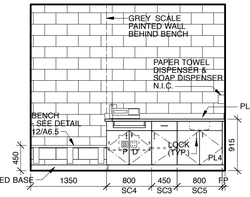
7 A6.2 **144 SOUTH** Scale: 1:50



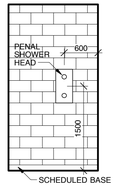
8 A6.2 **145 WEST** Scale: 1:50



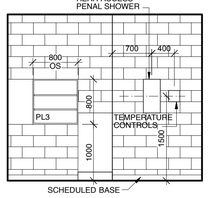
9 A6.2 **148 NORTH** Scale: 1:50



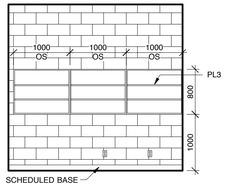
10 A6.2 **148 SOUTH** Scale: 1:50



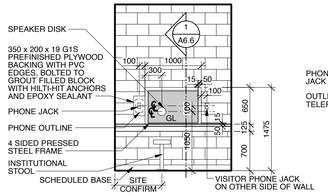
11 A6.2 **171 SOUTH** Scale: 1:50



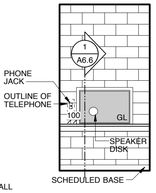
12 A6.2 **172 NORTH** Scale: 1:50



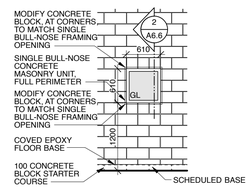
13 A6.2 **172 WEST** Scale: 1:50



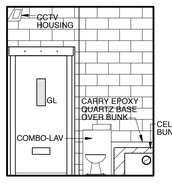
14 A6.2 **142 WEST** Scale: 1:50



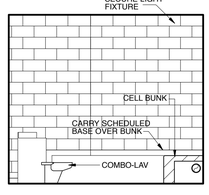
15 A6.2 **141 EAST** Scale: 1:50



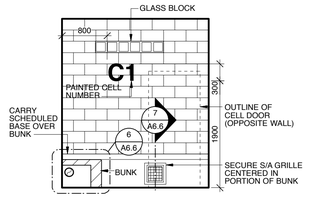
16 A6.2 **ACOUSTIC WINDOW ELEVATION** Scale: 1:50



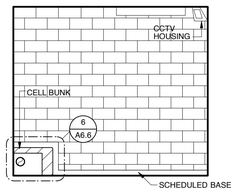
17 A6.4 **TYPICAL SECURE ROOM 'A' WEST ELEVATION** Scale: 1:50



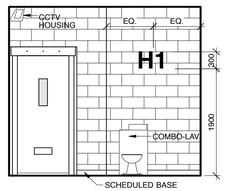
18 A6.4 **TYPICAL SECURE ROOM 'A' NORTH ELEVATION** Scale: 1:50



19 A6.4 **TYPICAL SECURE ROOM 'A' EAST ELEVATION** Scale: 1:50



20 A6.4 **TYPICAL SECURE ROOM 'A' SOUTH ELEVATION** Scale: 1:50



21 A6.4 **TYPICAL SECURE ROOM 'B' NUMBER** Scale: 1:50

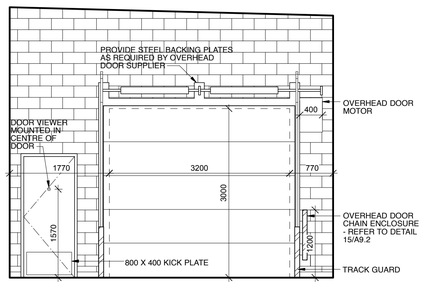
NOTES:
CONFIRM FONT STYLE, SERIES AND COMMENCEMENT OF NUMBERING WITH OWNER PRIOR TO APPLICATION

PROVIDE UP TO 3 CHARACTERS (AT OWNERS DISCRETION) PER SECURE ROOM 'A' OR 'B' FOR ROOM NUMBERING

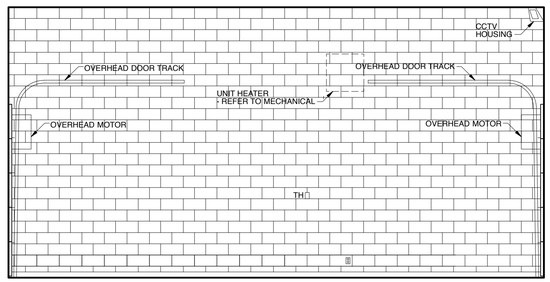
ROOM NUMBERING TO BE AS SHOWN ON ELEVATIONS

PAINT APPLICATION:

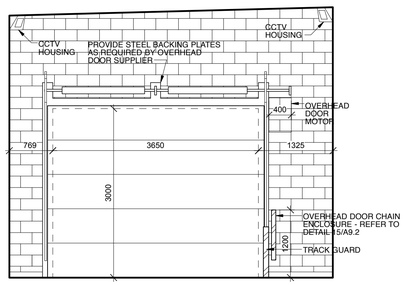
HIGH BUILD COATING. UP TO 3 CHARACTERS 300mm HIGH HELVETICA FONT (ie: A), A2...ETC) PLACED 2200mm AFF TO U/S OF LETTER, 800mm FROM CORNER, ACROSS FROM DETENTION DOOR. COLOUR TO BE SELECTED BY OWNER FROM MANUFACTURERS STANDARD RANGE



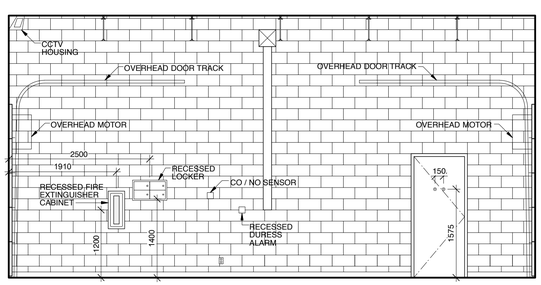
22 A6.2 **149 NORTH** Scale: 1:50



23 A6.2 **149 EAST** Scale: 1:50



24 A6.2 **149 SOUTH** Scale: 1:50



25 A6.2 **149 WEST** Scale: 1:50

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WABASCA / DESMARAIS GOVERNMENT BUILDING

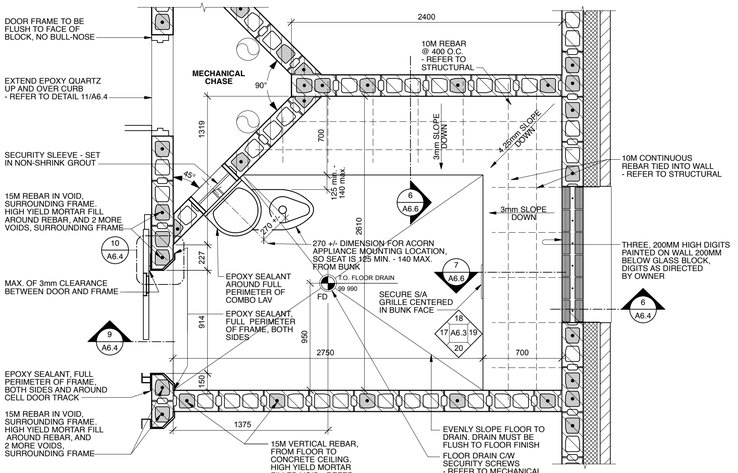
Scale	1:50	Designed By	AVB
Project No.	9031	Drawn By	MA
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

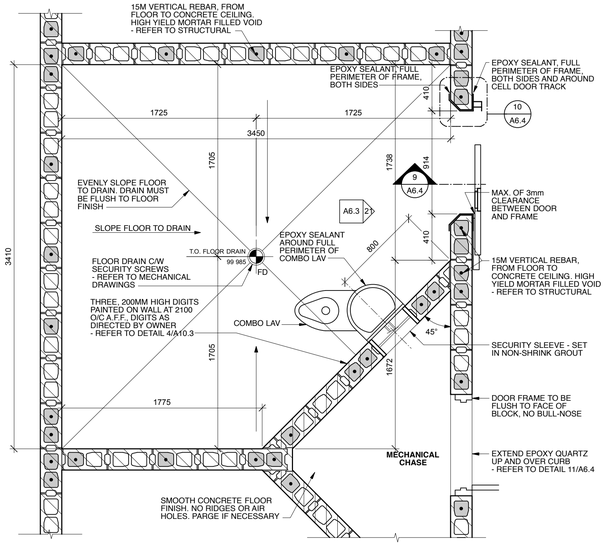
ENLARGED FLOOR PLANS INTERIOR ELEVATIONS

Drawing No.

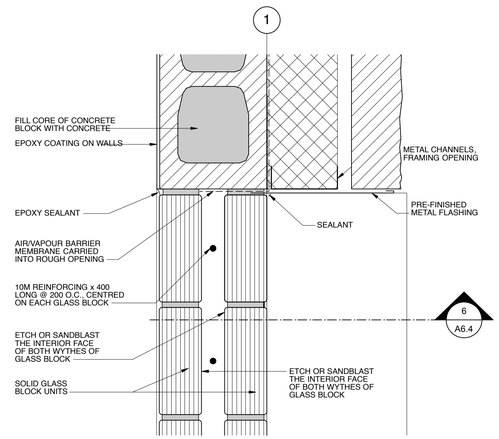
A6.3



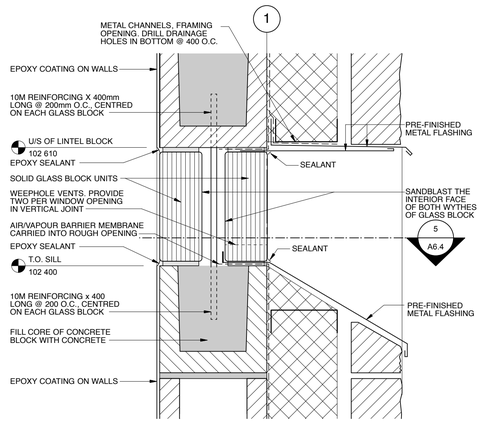
1 A2.2 TYPICAL SECURE ROOM 'A FLOOR PLAN
Scale: 1:25



3 A2.2 SECURE ROOM 'B' FLOOR PLAN
Scale: 1:25



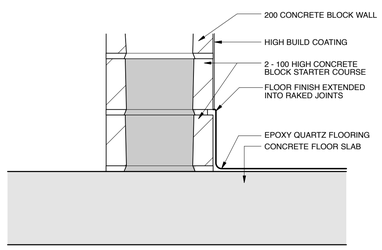
5 A5.1 TYPICAL GLASS BLOCK JAMB
Scale: 1:5



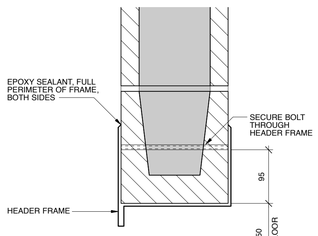
6 A5.1 TYPICAL GLASS BLOCK HEAD AND SILL
Scale: 1:5

2 A2.4 TYPICAL 'SECURE ROOM 'A' REFLECTED CEILING PLAN
Scale: 1:25

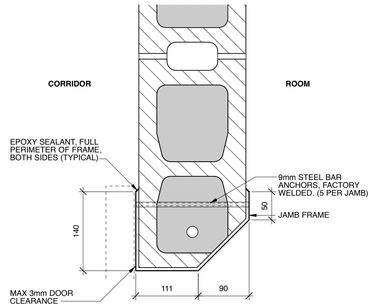
4 A2.4 SECURE ROOM 'B' REFLECTED CEILING PLAN
Scale: 1:25



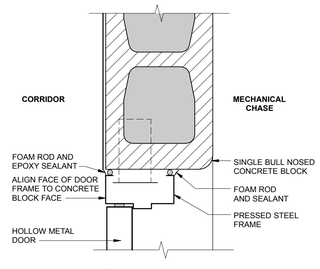
8 A6.4 TYPICAL STARTER COURSE
Scale: 1:5
TYPICAL AT ALL LOCATIONS WITH EPOXY QUARTZ FLOORING AND BASE



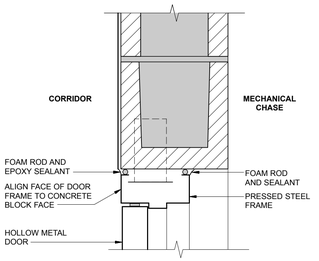
9 A6.4 HEADER DETAIL
Scale: 1:5



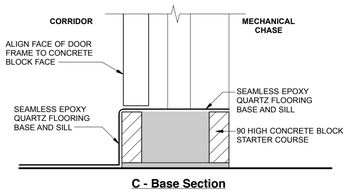
10 A6.4 JAMB DETAIL
Scale: 1:5



B - Jamb Section



A - Head Section



C - Base Section

11 A6.4 MECHANICAL CHASE DOOR DETAILS
Scale: 1:5

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Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	2017-04-28	SK-ACI
2	ISSUED FOR 95% REVIEW	2017-08-08	SK-ACI
3	ISSUED FOR TENDER	2017-09-12	SK-ACI

Seal

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

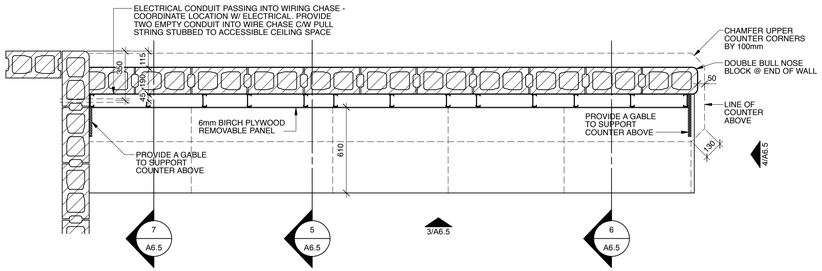
Scale	1:50	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

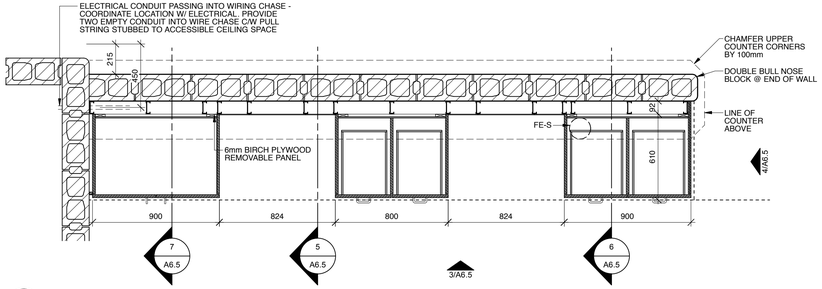
MISCELLANEOUS FLOOR PLANS AND DETAILS

Drawing No.

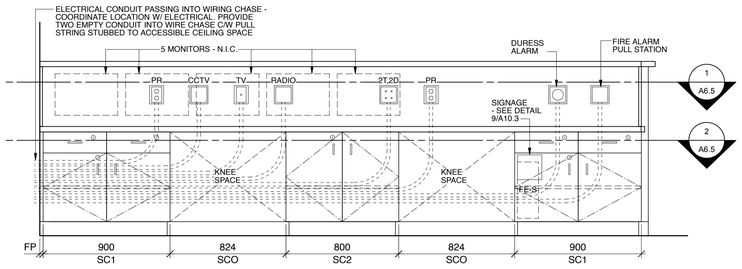
A6.4



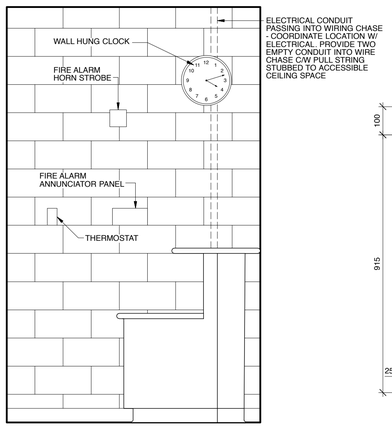
1 A6.2 PLAN THROUGH CABLE CHASE
Scale: 1:20



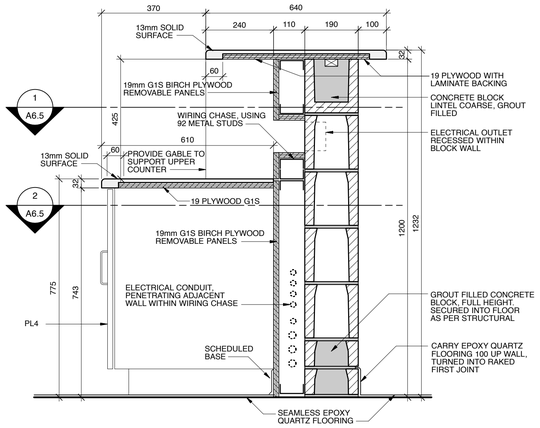
2 A6.2 PLAN THROUGH BASE CABINET
Scale: 1:20



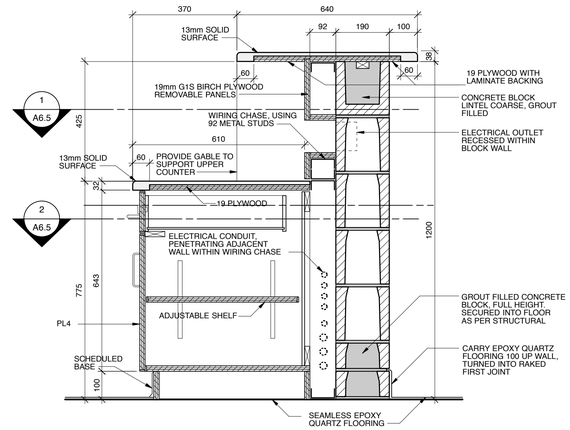
3 A6.2 ELEVATION THROUGH BASE CABINET
Scale: 1:20



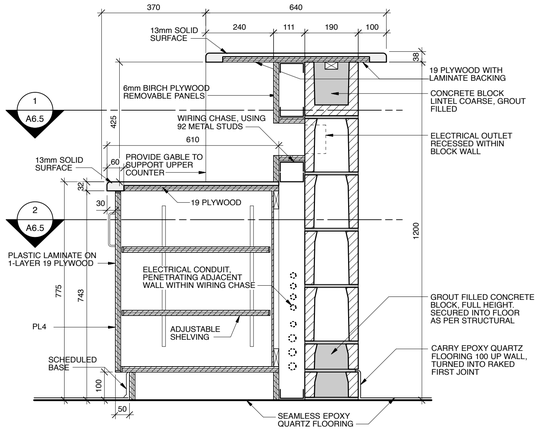
4 A6.5 140 NORTH
Scale: 1:20



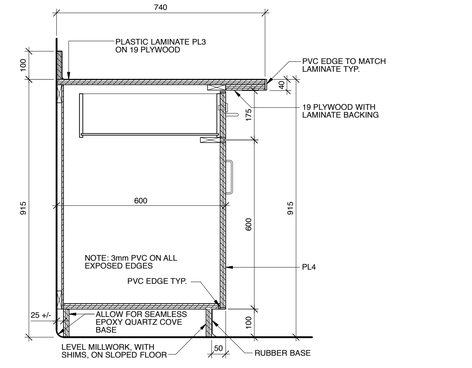
5 A6.5 SPECIALTY CABINET OPEN (SCO) SECTION
Scale: 1:10



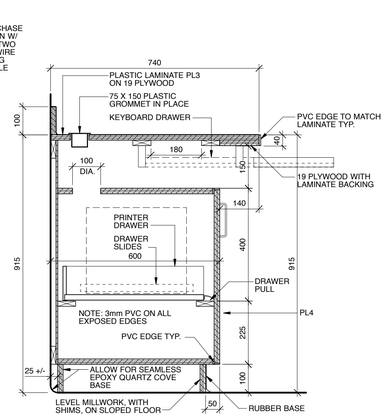
6 A6.5 SPECIALTY CABINET 1 (SC1) SECTION
Scale: 1:10



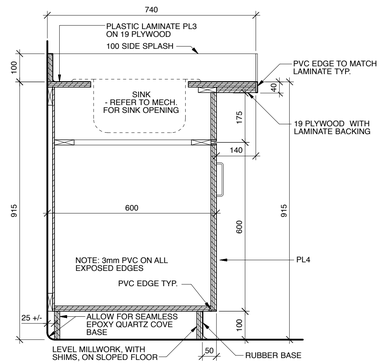
7 A6.5 SPECIALTY CABINET 2 (SC2) SECTION
Scale: 1:10



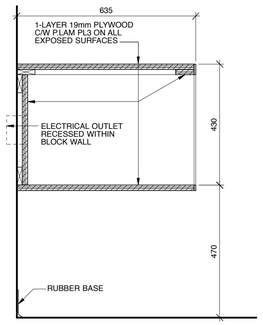
8 A6.3 SPECIALTY CABINET 3 (SC3) SECTION
Scale: 1:10



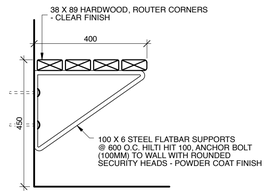
9 A6.3 SPECIALTY CABINET 4 (SC4) SECTION
Scale: 1:10



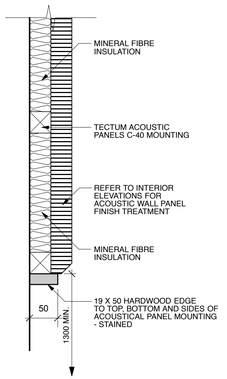
10 A6.3 SPECIALTY CABINET 5 (SC5) SECTION
Scale: 1:10



11 A6.3 OPEN PRINTER SHELF (OPS)
Scale: 1:10



12 A6.2 BENCH (B) SECTION
Scale: 1:10



13 A6.3 TECTUM PANEL EDGE
Scale: 1:5

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Seal

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Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

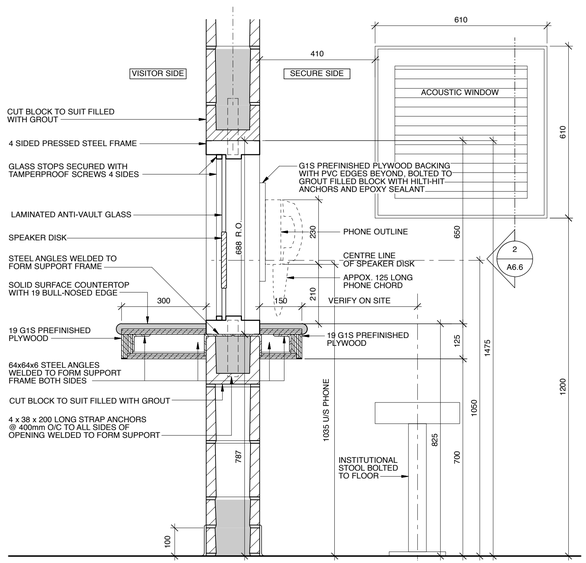
Scale	1:100	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

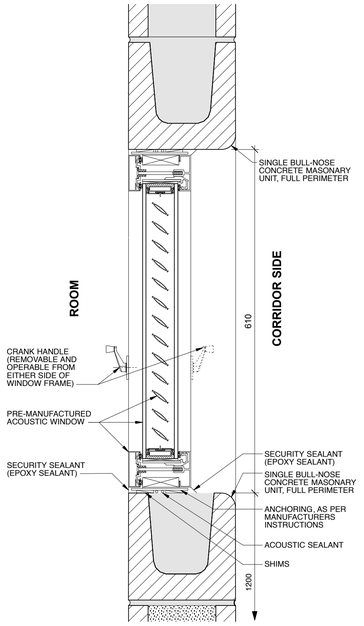
ENLARGED MILLWORK PLANS, ELEVATIONS AND SECTIONS

Drawing No.

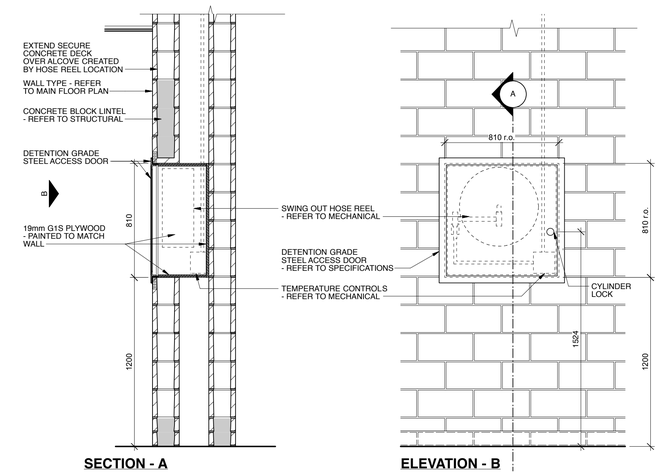
A6.5



1 A6.3 141/142 SECTION
Scale: 1:10

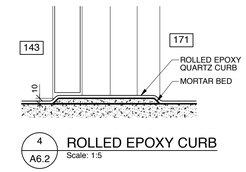


2 A6.2 ACOUSTIC WINDOW SECTION
Scale: 1:5

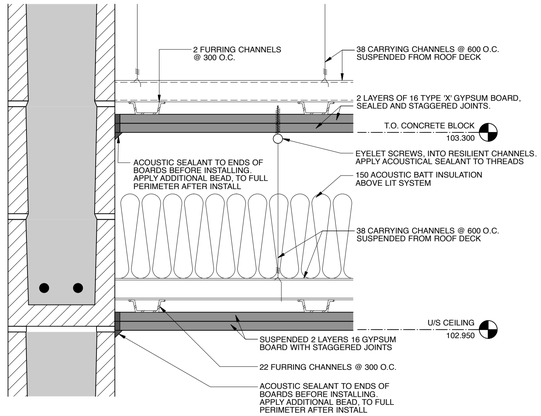


3 A6.3 HOSE REEL SECTION
Scale: 1:20

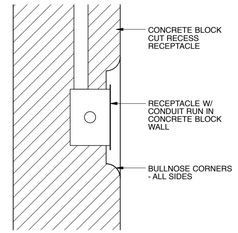
GENERAL NOTE:
- TOUCH UP ANY DAMAGE TO FACTORY FINISH



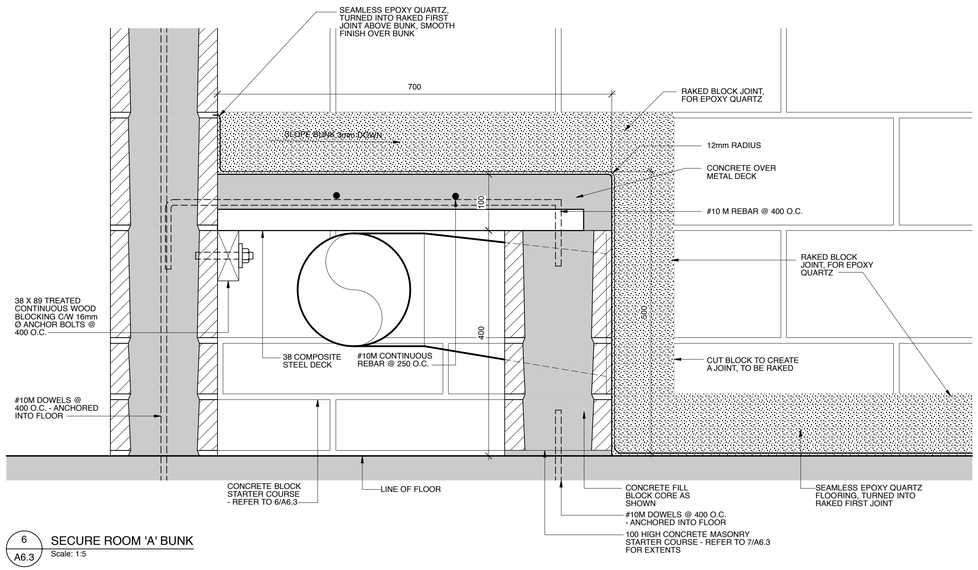
4 A6.2 ROLLED EPOXY CURB
Scale: 1.5



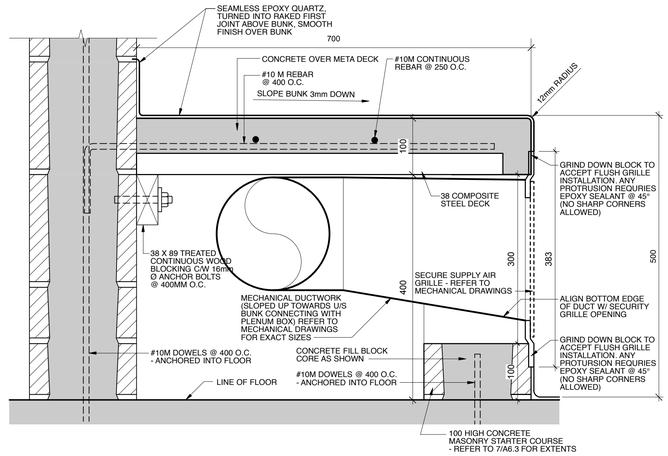
5 A6.2 ACOUSTIC CEILING SECTION
Scale: 1:5



8 A6.6 RECESSED RECEPTACLE SECTION
Scale: 1:5



6 A6.3 SECURE ROOM 'A' BUNK
Scale: 1:5



7 A6.3 SECURE ROOM 'A' BUNK AT PLENUM BOX
Scale: 1:5

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Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

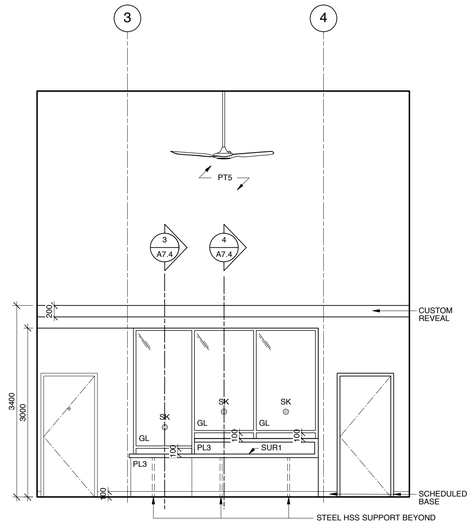
Scale	1:100	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

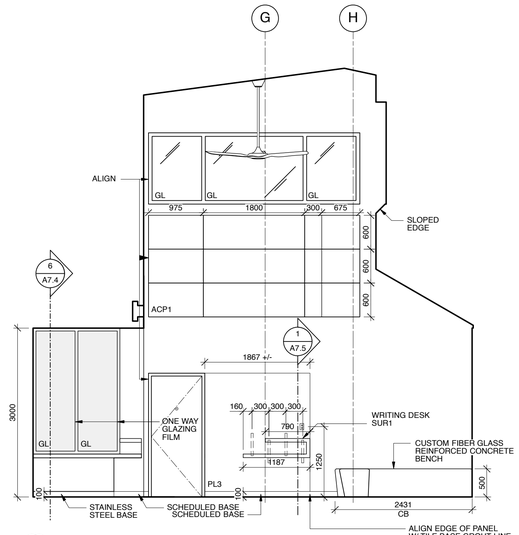
INTERIOR SECTIONS AND DETAILS

Drawing No.

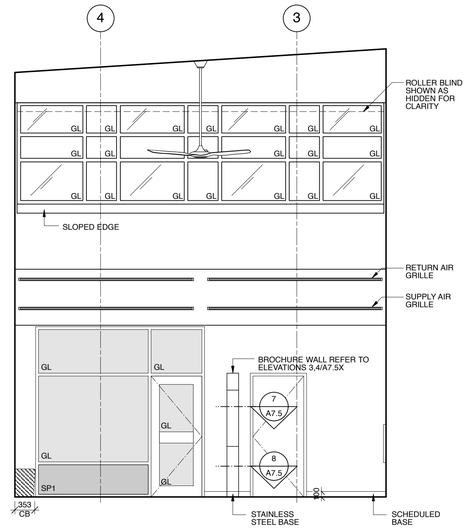
A6.6



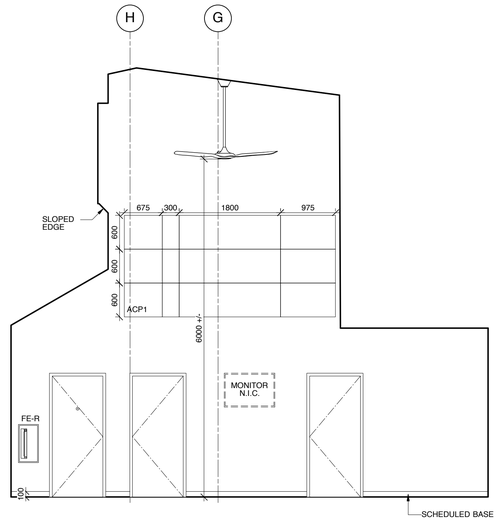
1 / A2.2 **103 - NORTH**
Scale: 1:50
NOTE: LIGHT FIXTURE NOT SHOWN FOR CLARITY



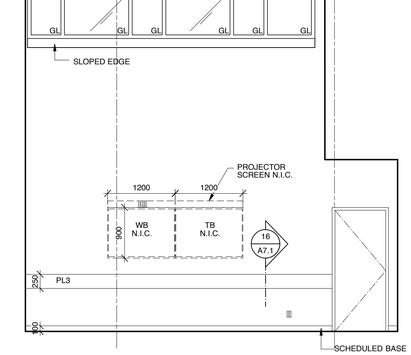
2 / A2.2 **103 - EAST**
Scale: 1:50
NOTE: LIGHT FIXTURE NOT SHOWN FOR CLARITY



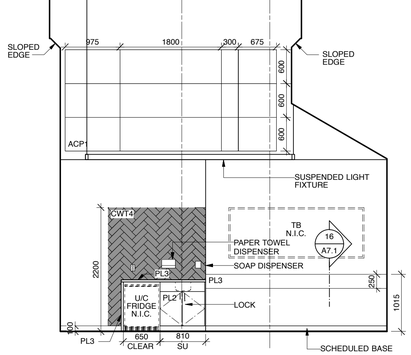
3 / A2.2 **103 - SOUTH**
Scale: 1:50
NOTE: LIGHT FIXTURE NOT SHOWN FOR CLARITY



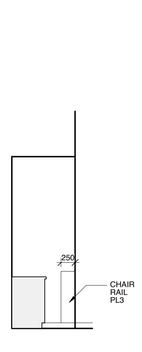
4 / A2.2 **103 - WEST**
Scale: 1:50
NOTE: LIGHT FIXTURE NOT SHOWN FOR CLARITY



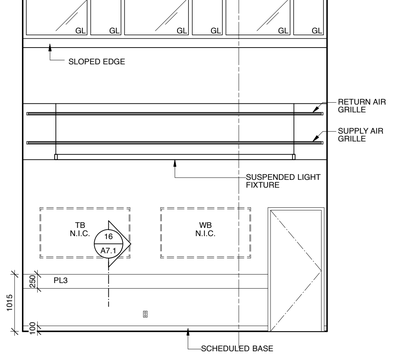
5 / A2.2 **105 - NORTH**
Scale: 1:50



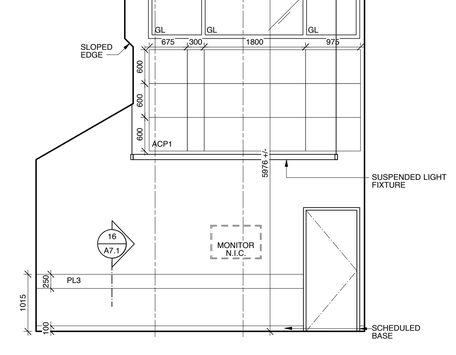
6 / A2.2 **105 - EAST**
Scale: 1:50



6A / A2.2 **105 - SOUTH**
Scale: 1:50



7 / A2.2 **105 - SOUTH**
Scale: 1:50



8 / A2.2 **105 - WEST**
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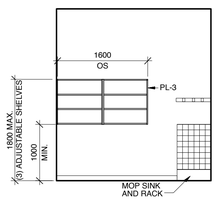
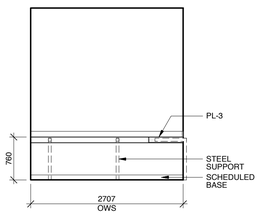
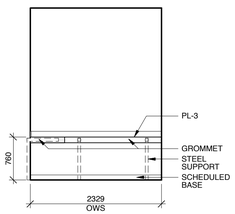


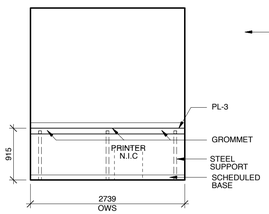
9 / A2.2 **ROOM 106 - SOUTH**
Scale: 1:50



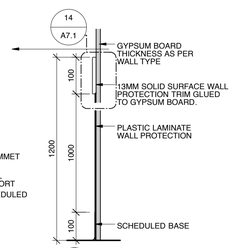
10 / A2.2 **ROOM 107 - EAST**
Scale: 1:50



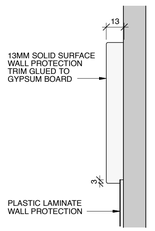
11 / A2.2 **ROOM 107 - SOUTH**
Scale: 1:50



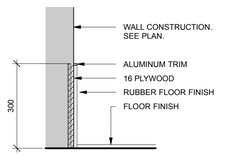
12 / A2.2 **ROOM 108 - EAST**
Scale: 1:50



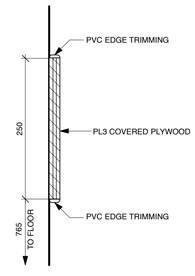
13 / A7.1 **TYP. WALL PROTECTION SECTION**
Scale: 1:10



14 / A7.1 **WALL PROTECTION DETAIL**
SCALE: 1:2



15 / A7.1 **CUSTOM BASE SECTION**
Scale: 1:10
NOTE: ROOM 124



16 / A7.1 **CHAIR RAIL (CR) SECTION**
Scale: 1:5

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

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CB	CONCRETE BENCH
FE-R	FIRE EXTINGUISHER - SEMI-RECESSED / RECESSED
GL	GLAZING
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PL	PLASTIC LAMINATE FINISH
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WB	WHITE BOARD (N.I.C)

GENERAL NOTES:

APPLIES TO DRAWINGS A7.1 TO A7.6

1. FINISH LEGEND LOCATED ON DRAWING A10.1

Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	2017-04-28	SK-ACI
2	ISSUED FOR 95% REVIEW	2017-08-08	SK-ACI
3	ISSUED FOR TENDER	2017-09-12	SK-ACI

Seal

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS
GOVERNMENT BUILDING

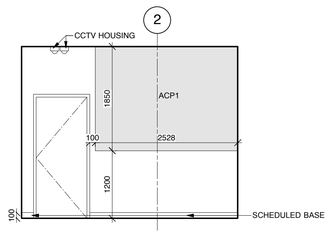
Scale	1:100	Designed By	LT
Project No.	9031	Drawn By	CH
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

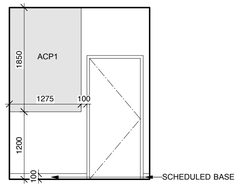
INTERIOR ELEVATIONS

Drawing No.

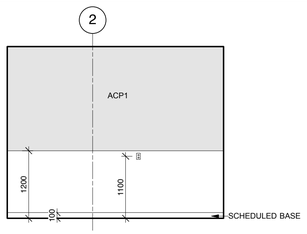
A7.1



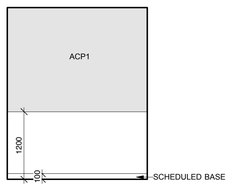
1 / A2.2 **109 - NORTH**
Scale: 1:50



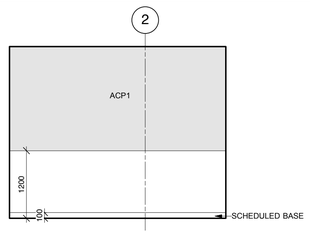
2 / A2.2 **109 - EAST**
Scale: 1:50



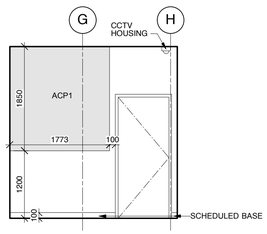
3 / A2.2 **109 - SOUTH**
Scale: 1:50



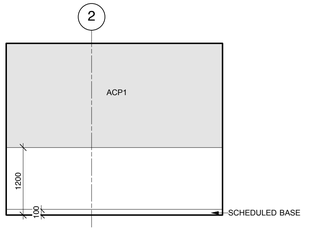
4 / A2.2 **109 - WEST**
Scale: 1:50



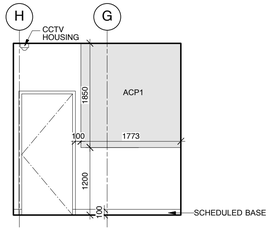
5 / A2.2 **110 - NORTH**
Scale: 1:50



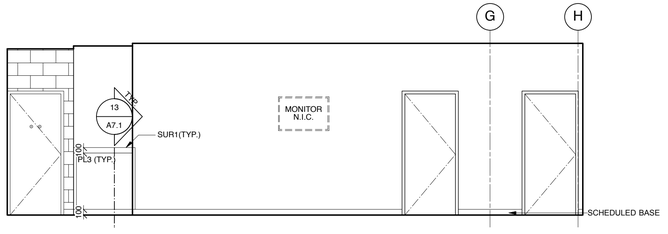
6 / A2.2 **110 - EAST**
Scale: 1:50



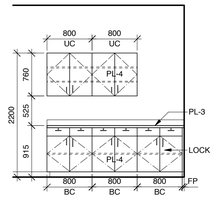
7 / A2.2 **110 - SOUTH**
Scale: 1:50



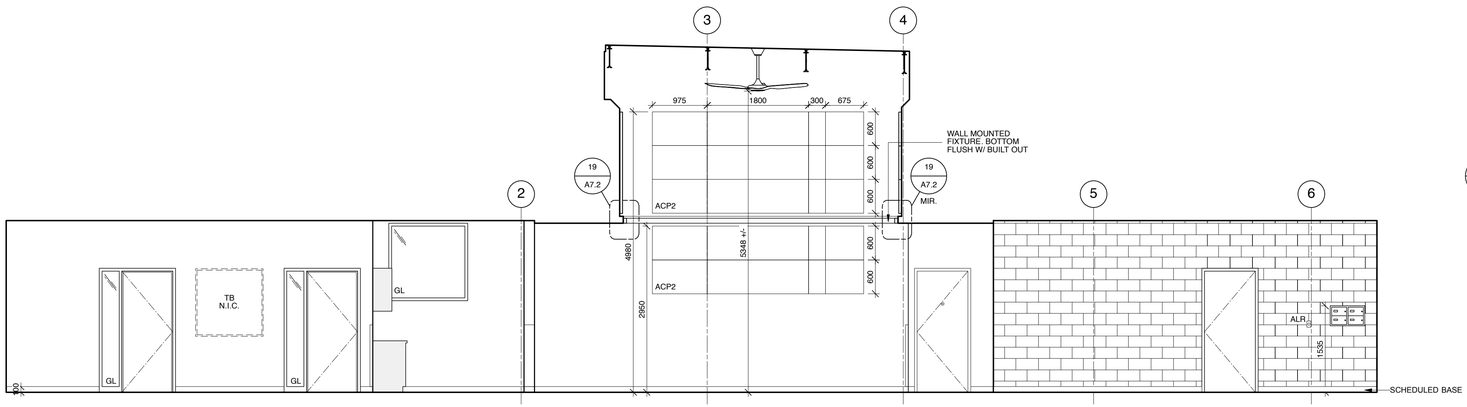
8 / A2.2 **110 - WEST**
Scale: 1:50



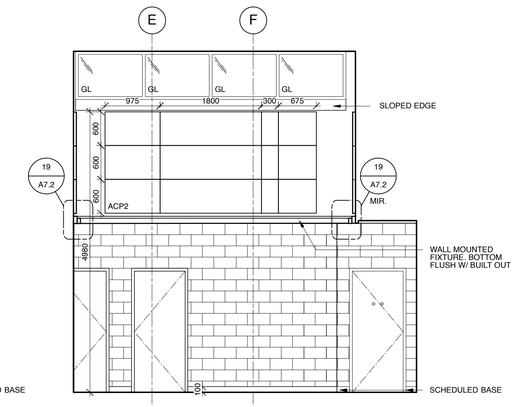
9 / A2.2 **115 - EAST**
Scale: 1:50



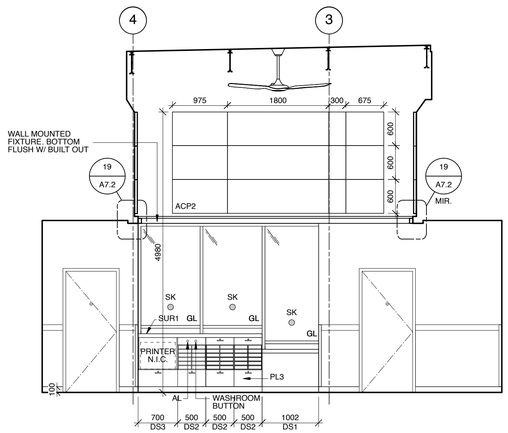
10 / A2.2 **ROOM 118 - WEST**
Scale: 1:50



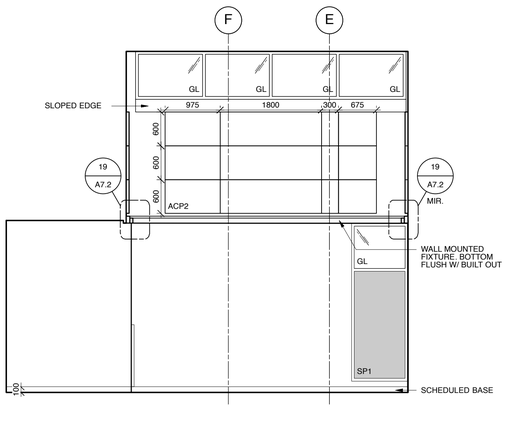
11 / A2.2 **119 - NORTH**
Scale: 1:50



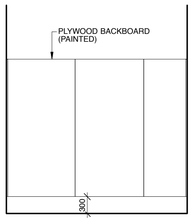
12 / A2.2 **119 - EAST**
Scale: 1:50
NOTE: FAN NOT SHOWN FOR CLARITY



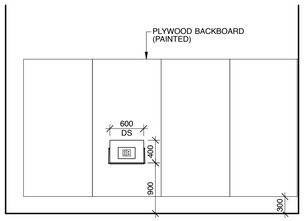
13 / A2.2 **119 - SOUTH**
Scale: 1:50
NOTE: REFER TO SHEET A7.4 FOR RECEPTION DESK MILLWORK DETAILS



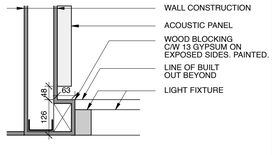
14 / A2.2 **119 - WEST**
Scale: 1:50



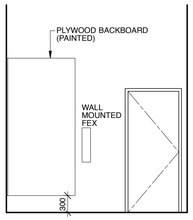
15 / A2.2 **139 - NORTH**
Scale: 1:50



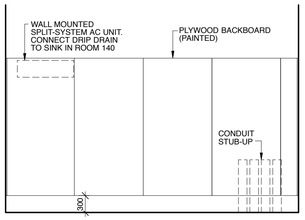
16 / A2.2 **139 - WEST**
Scale: 1:50



19 / A7.2 **BULKHEAD BUILT OUT SECTION**
Scale: 1:10



17 / A2.2 **139 - SOUTH**
Scale: 1:50



18 / A2.2 **139 - EAST**
Scale: 1:50

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WABASCA / DESMARAIS GOVERNMENT BUILDING

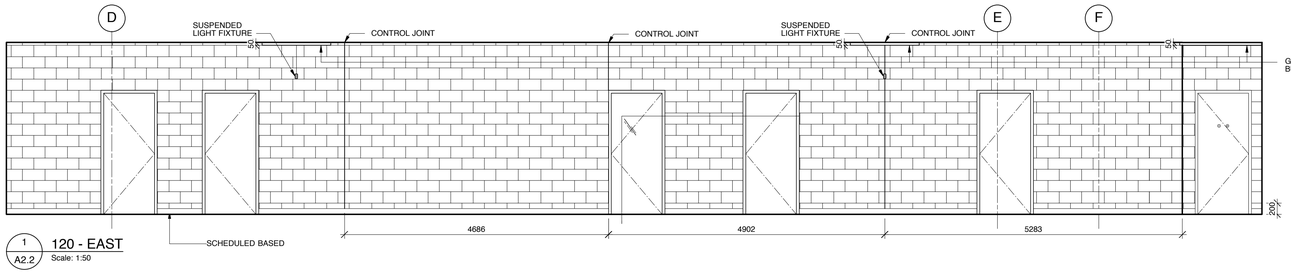
Scale	1:100	Designed By	LT
Project No.	9031	Drawn By	CH
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

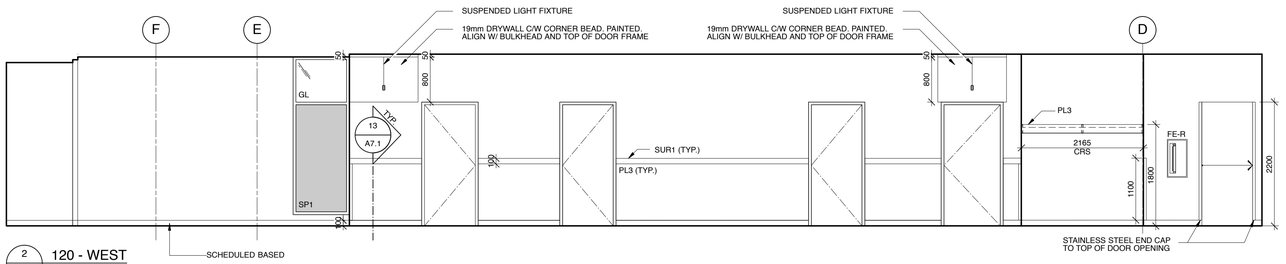
INTERIOR ELEVATIONS

Drawing No.

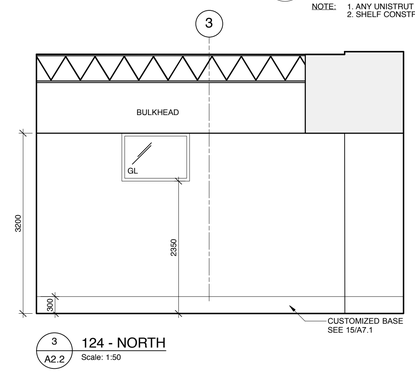
A7.2



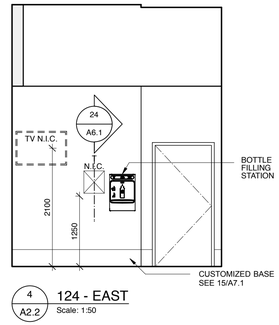
1 A2.2 **120 - EAST**
Scale: 1:50



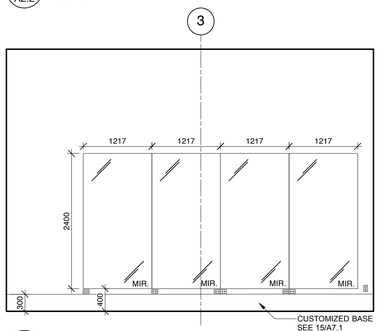
2 A2.2 **120 - WEST**
Scale: 1:50



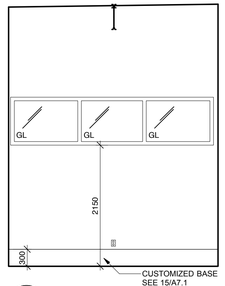
3 A2.2 **124 - NORTH**
Scale: 1:50



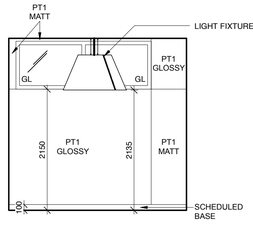
4 A2.2 **124 - EAST**
Scale: 1:50



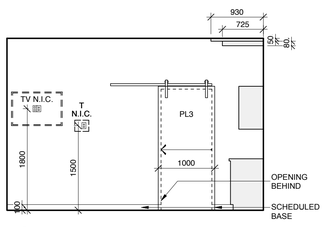
5 A2.2 **124 - SOUTH**
Scale: 1:50



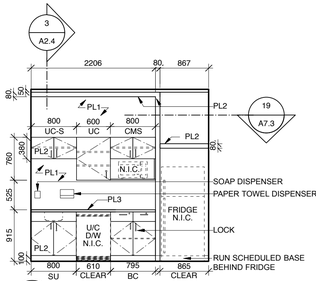
6 A2.2 **124 - WEST**
Scale: 1:50



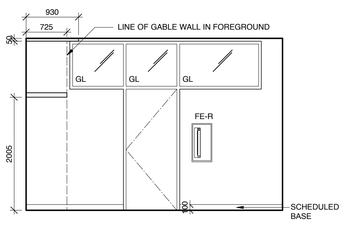
7 A2.2 **126 - NORTH**
Scale: 1:50



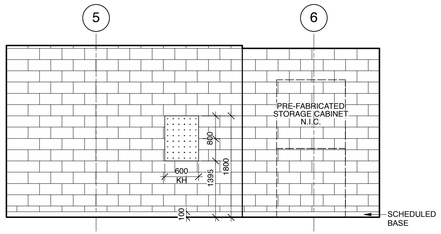
8 A2.2 **126 - WEST**
Scale: 1:50



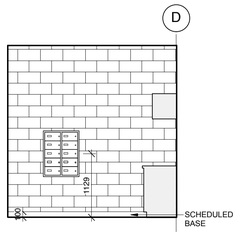
9 A2.2 **126 - SOUTH**
Scale: 1:50



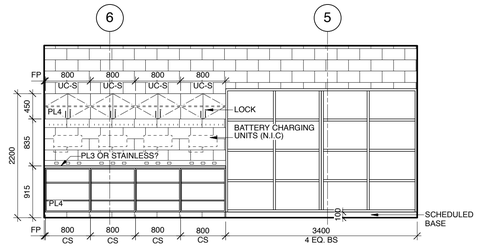
10 A2.2 **126 - EAST**
Scale: 1:50



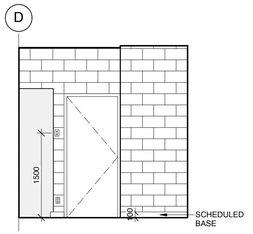
11 A2.2 **130/ 131 - NORTH**
Scale: 1:50



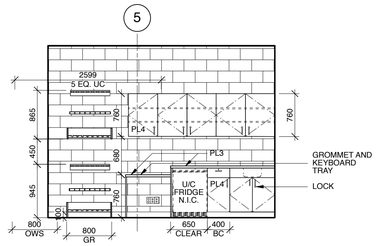
12 A2.2 **131 - EAST**
Scale: 1:50



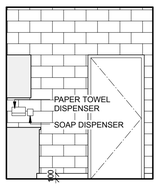
13 A2.2 **130 - SOUTH**
Scale: 1:50



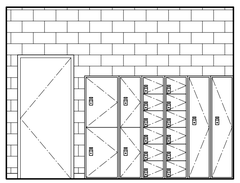
14 A2.2 **130 - WEST**
Scale: 1:50



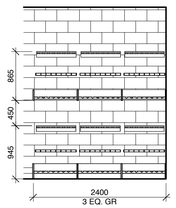
15 A2.2 **132 - NORTH**
Scale: 1:50



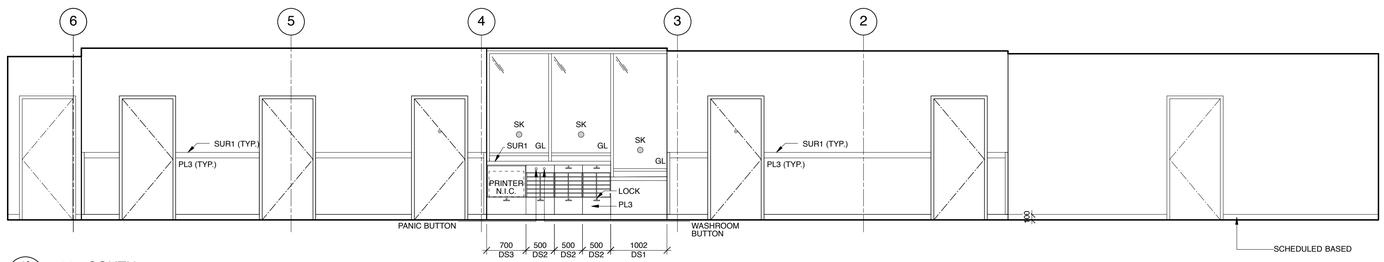
16 A2.2 **132 - EAST**
Scale: 1:50



17 A2.2 **132 - SOUTH**
Scale: 1:50

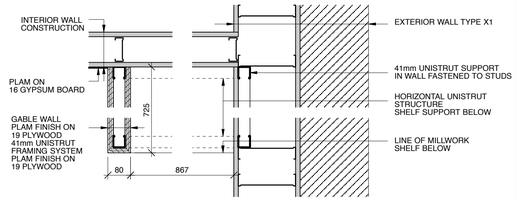


18 A2.2 **134 - NORTH**
Scale: 1:50



19 A2.2 **138 - SOUTH**
Scale: 1:50

NOTE: REFER TO SHEET A7.4 FOR RECEPTION DESK MILLWORK DETAILS



19 A7.3 **126 - MILLWORK FRAMING DETAIL**
Scale: 1:10

NOTE: 1. ANY UNISTRUT METAL COMPONENT TO BE WITHIN THE CAVITY DESIGNATED
2. SHELF CONSTRUCTED THE SAME AS GABLE WALL

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T	TELCO FEED
TB	TACK BOARD (N.I.C.)
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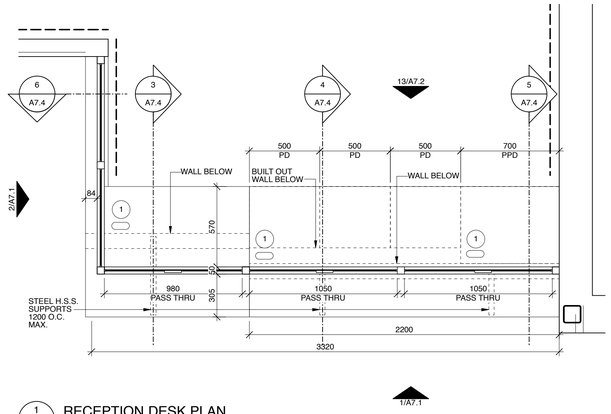
Project No.	9031	Drawn By	CH
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

INTERIOR ELEVATIONS

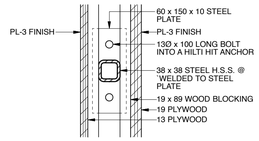
Drawing No.

A7.3

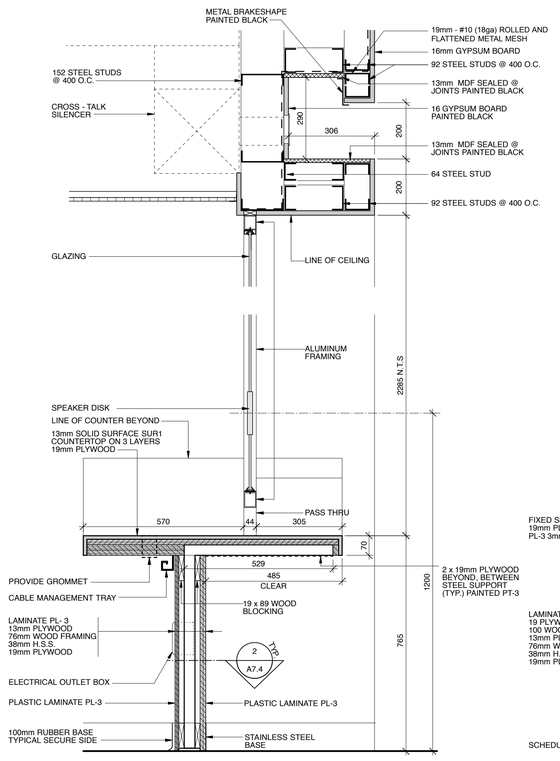


EQUIPMENT LIST - WORK STATIONS	
1	PASS -THROUGH GROMMET
2	CASH DRAWER
3	PRINTER SHELF

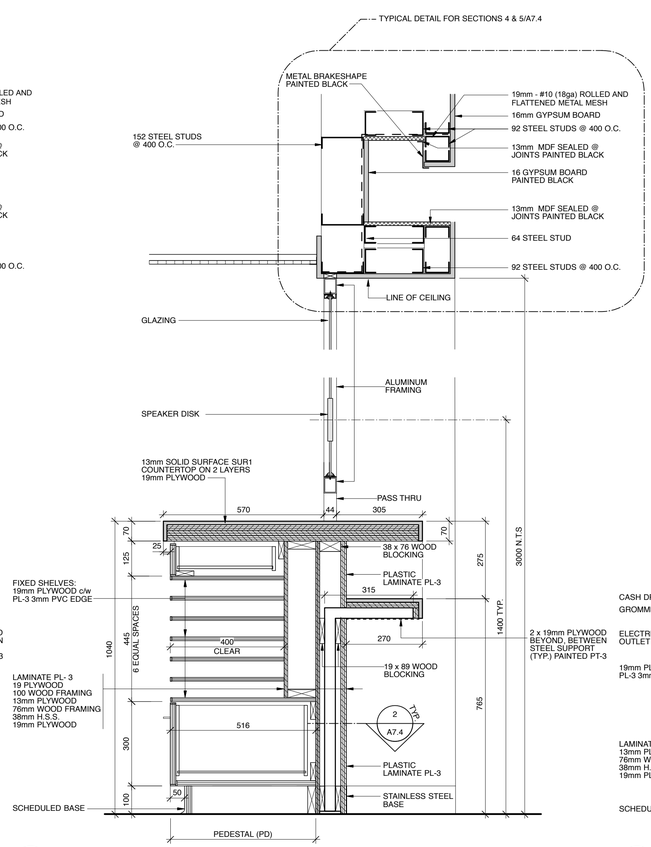
1 A7.4 RECEPTION DESK PLAN
Scale: 1:20



2 A7.4 TYPICAL HSS SUPPORT PLAN DETAIL
Scale: 1:5



3 A7.4 DESK SECTION (DS1)
Scale: 1:10



4 A7.4 DESK SECTION (DS2)
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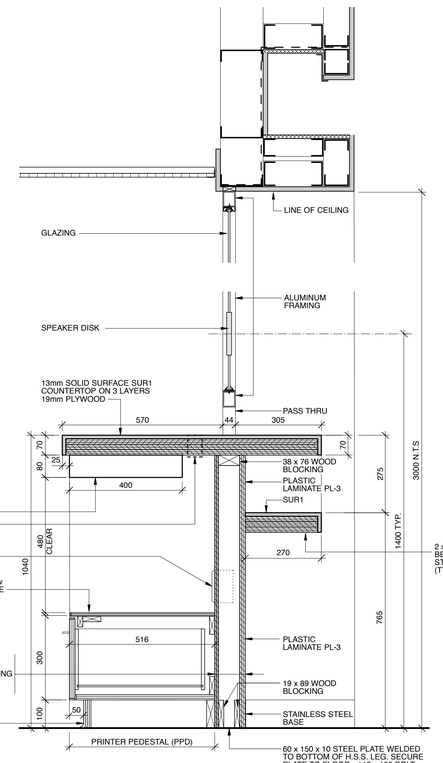

5 A7.4 DESK SECTION (DS3)
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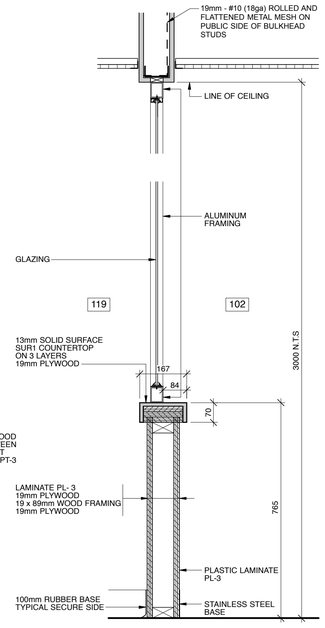

6 A7.4 DESK SECTION
Scale: 1:10

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-
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Seal

Client

Government of Canada / Gouvernement du Canada
Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

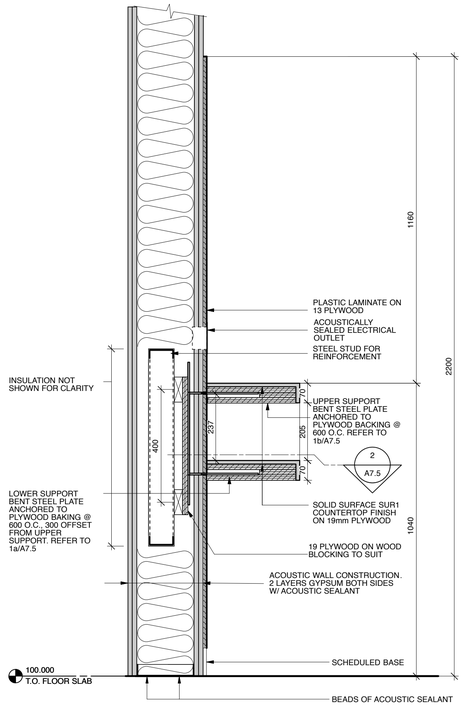
Scale	1:100	Designed By	LT
Project No.	9031	Drawn By	KC/CH
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

RECEPTION MILLWORK PLANS AND DETAILS

Drawing No.

A7.4



1 A7.1 SECTION @ WRITING DESK
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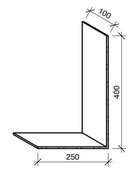
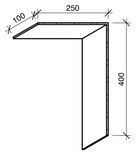


1a A7.5 LOWER SUPPORT ISOMETRIC
Scale: 1:10



1b A7.5 UPPER SUPPORT ISOMETRIC
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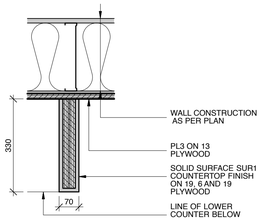

2 A7.5 SECTION @ WRITING DESK
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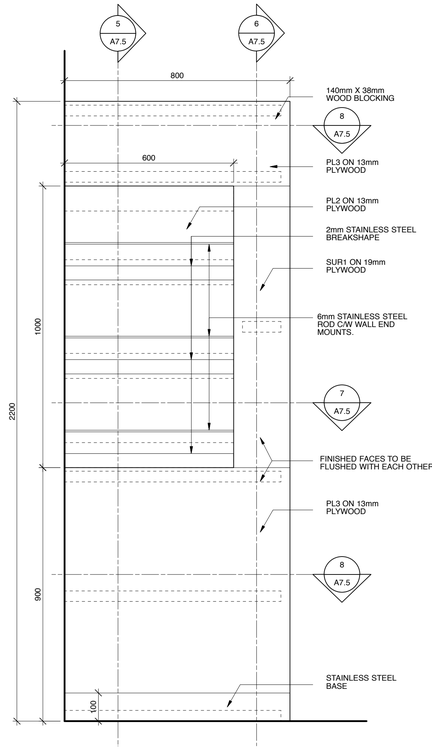
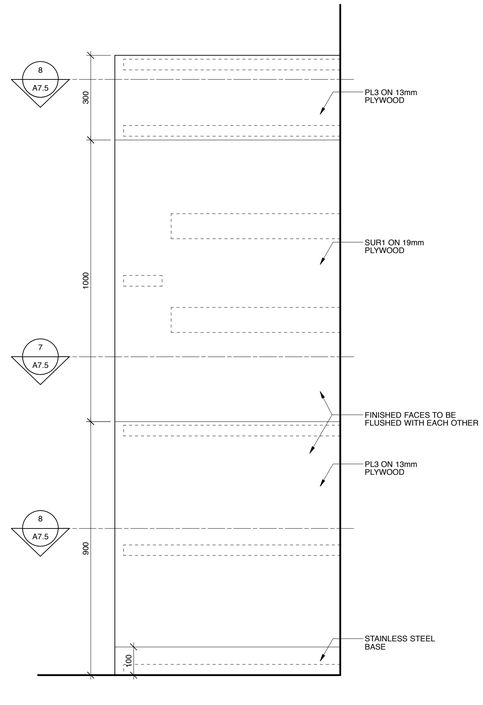
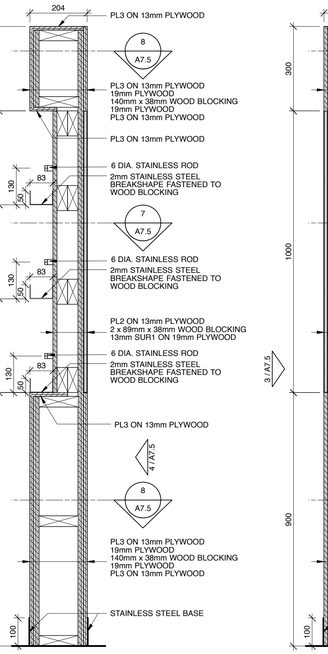


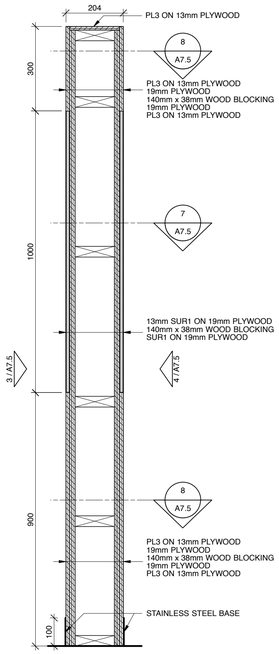
3 A7.5 ELEVATION BROCHURE WALL - FRONT
Scale: 1:10



4 A7.5 ELEVATION BROCHURE WALL - REAR
Scale: 1:10



5 A7.5 BROCHURE WALL SECTION
Scale: 1:10



6 A7.5 BROCHURE WALL SECTION
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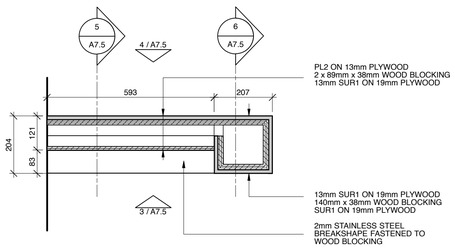

7 A7.5 BROCHURE WALL SECTION
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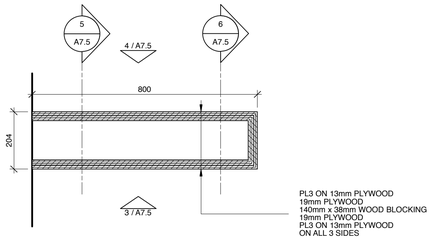
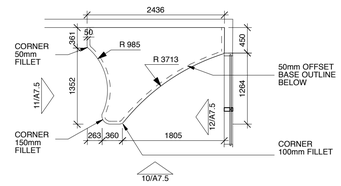


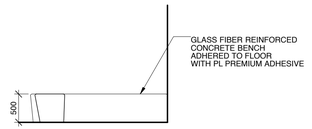
8 A7.5 BROCHURE WALL SECTION
Scale: 1:10



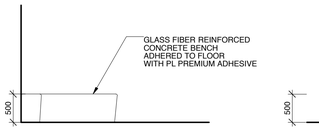
NOTE: CUSTOM GLASS FIBER REINFORCED CONCRETE LOBBY BENCH TO BE FABRICATED, DELIVERED AND INSTALLED BY:

URBAN CONCRETE
#1 364 LOUGHEED ROAD
KELOWNA, BC
CANADA V1X 7R8
PHONE: (778) 753-6673
EMAIL: urbanconcrete@shaw.ca

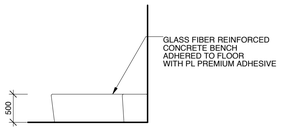
9 A7.5 ENLARGED CUSTOM LOBBY BENCH PLAN
Scale: 1:50



10 A7.5 ELEVATION BENCH LOBBY
Scale: 1:50



11 A7.5 ELEVATION BENCH LOBBY
Scale: 1:50



12 A7.5 ELEVATION BENCH LOBBY
Scale: 1:50

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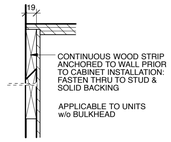
RECEPTION MILLWORK PLANS AND DETAILS

Drawing No.

A7.5



1 A7.6 TYPICAL UPPER CABINET ANCHORING
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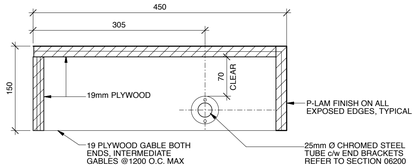

4 A7.6 COAT ROD AND SHELF (CRS)
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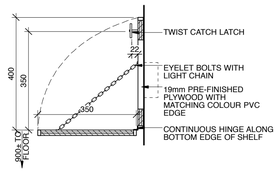

2 A7.6 DATA PORT SHELF (DS) SECTION
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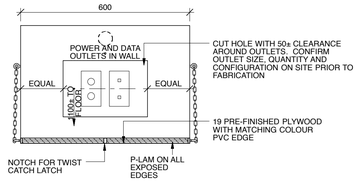
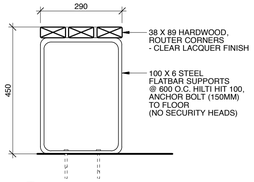
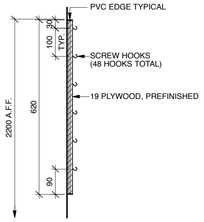


3 A7.6 DATA PORT SHELF (DS) ELEVATION
Scale: 1:10



5 A7.6 LOCKER BENCH (LB) SECTION TYP.
Scale: 1:10



6 A7.6 KEY HOOK BOARD (KH) SECTION
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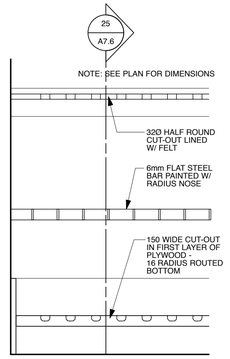
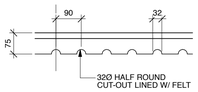
NOTE: 3mm PVC ON ALL EXPOSED EDGES



7 A7.6 GUN RACK (GR) ELEVATION
Scale: 1:10



8 A7.6 BARREL GUN SUPPORT PLAN
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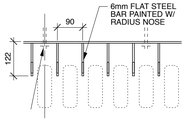
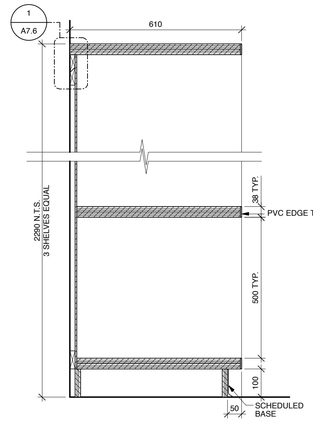


9 A7.6 TRIGGER LOCK PLAN
Scale: 1:10



11 A7.6 BRIEFCASE SHELVING (BS) SECTION
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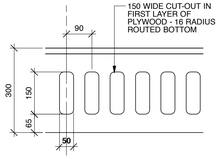
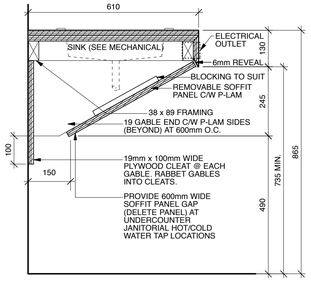
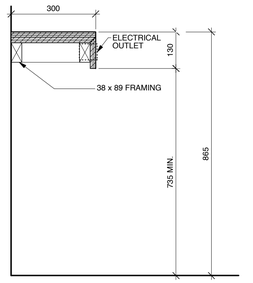


10 A7.6 BASE GUN SUPPORT PLAN
Scale: 1:10



12 A7.6 VANITY UNIT (VU1) SECTION
Scale: 1:10



14 A7.6 VANITY UNIT (VU2) SECTION
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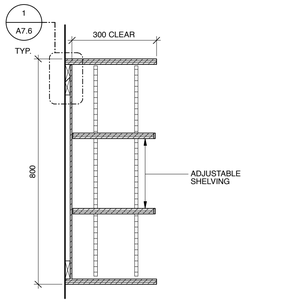
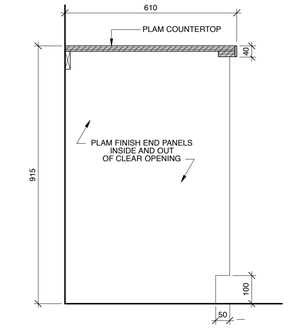


13 A7.6 OPEN SHELVES (OS) SECTION
Scale: 1:10



15 A7.6 OPEN COUNTER (OC) SECTION
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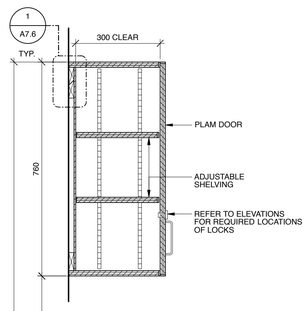
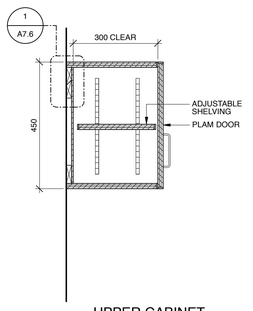
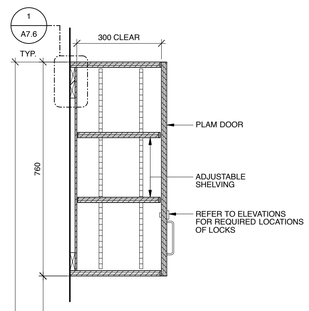


16 A7.6 UPPER CABINET (UC) SECTION
Scale: 1:10



17 A7.6 UPPER CABINET SHORT (UC-S) SECTION
Scale: 1:10



18 A7.6 UPPER CABINET (UC) SECTION
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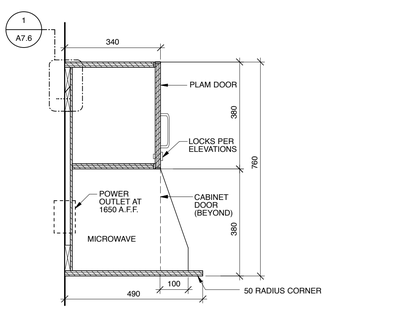
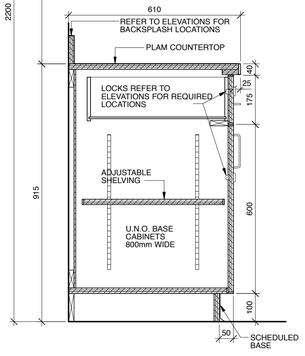
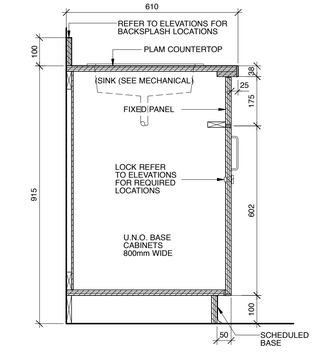


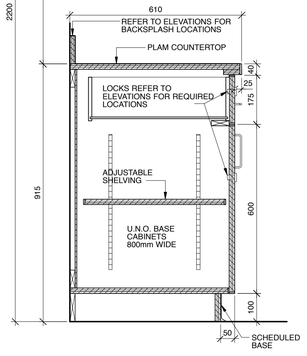
19 A7.6 CABINET MICROWAVE SHELF SECTION (CMS)
Scale: 1:10



21 A7.6 BASE CABINET (BC) SECTION
Scale: 1:10



22 A7.6 SINK UNIT (SU) SECTION
Scale: 1:10



23 A7.6 BASE CABINET (BC) SECTION
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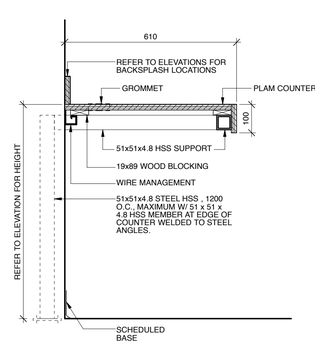

24 A7.6 OPEN WORK (OWS) SECTION
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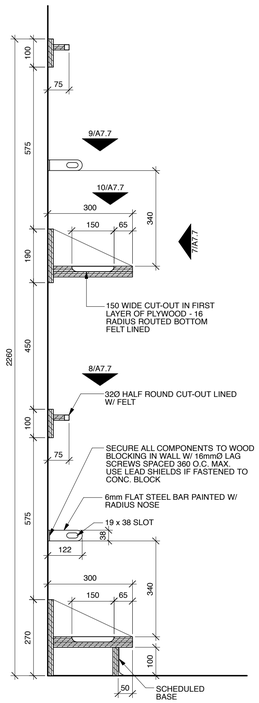
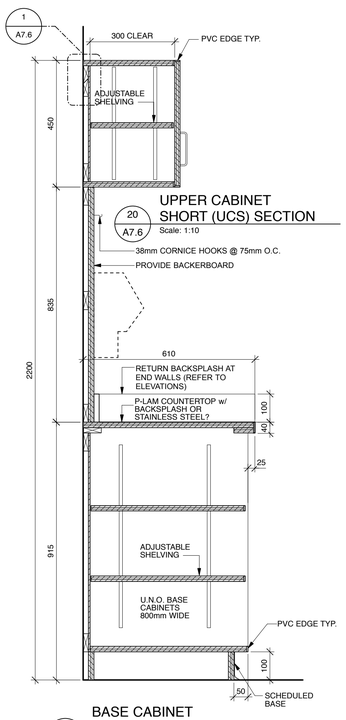


25 A7.6 GUN RACK (GR) SECTION
Scale: 1:10



20 A7.6 UPPER CABINET SHORT (UCS) SECTION
Scale: 1:10
38mm CORNICE HOOKS @ 75mm O.C.
PROVIDE BACKERBOARD

26 A7.6 BASE CABINET CHARGING STATION (CS)
Scale: 1:10

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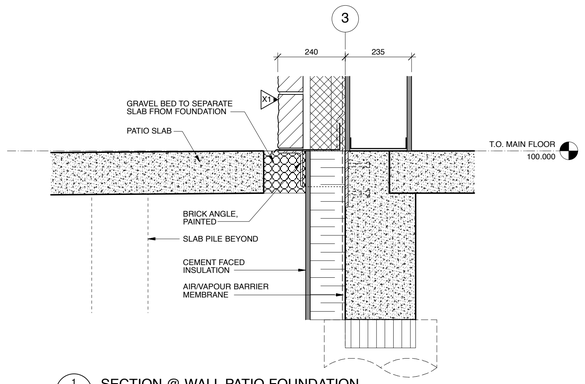
Project No.	9031	Drawn By	CH
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

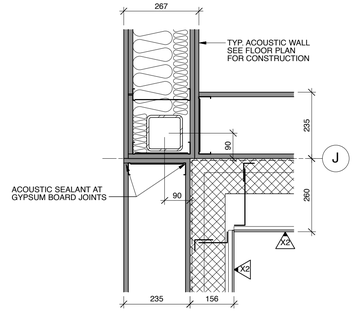
MILLWORK SECTIONS

Drawing No.

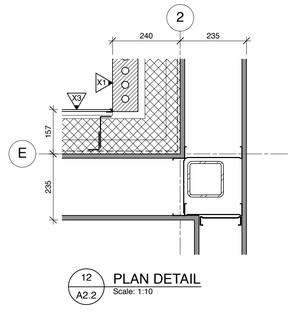
A7.6



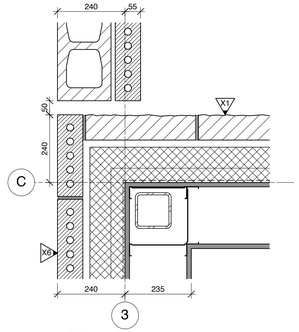
1 A4.1 SECTION @ WALL PATIO FOUNDATION
Scale: 1:10



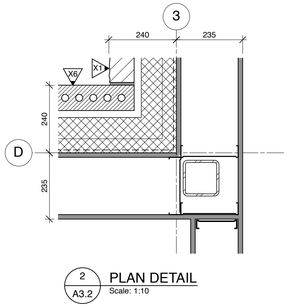
8 A2.2 PLAN DETAIL
Scale: 1:10



12 A2.2 PLAN DETAIL
Scale: 1:10



17 A3.2 PLAN DETAIL
Scale: 1:10



2 A3.2 PLAN DETAIL
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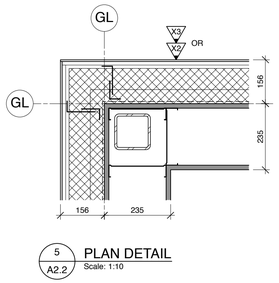
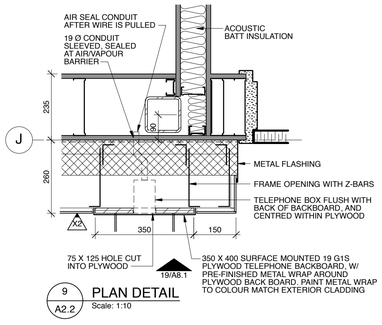
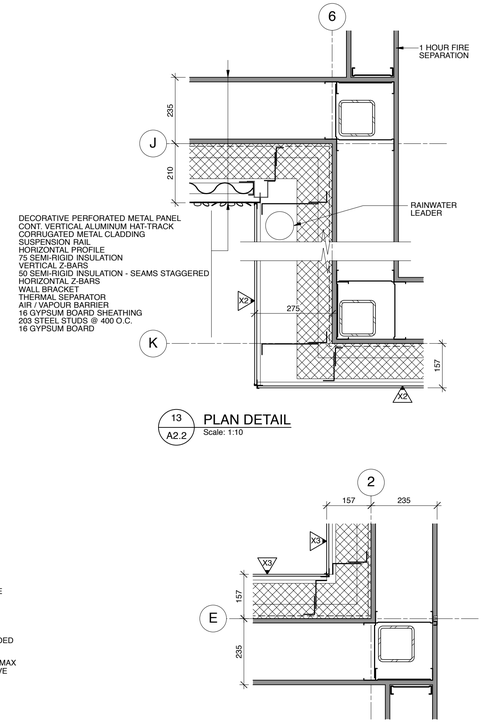


5 A2.2 PLAN DETAIL
Scale: 1:10

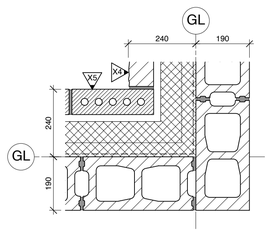


9 A2.2 PLAN DETAIL
Scale: 1:10

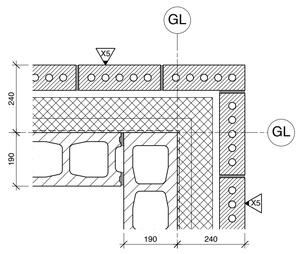


13 A2.2 PLAN DETAIL
Scale: 1:10

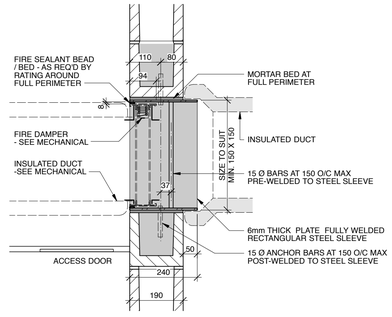
18 A2.2 PLAN DETAIL
Scale: 1:10



3 A2.2 PLAN DETAIL
Scale: 1:10



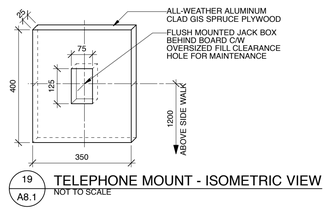
6 A2.2 PLAN DETAIL
Scale: 1:10



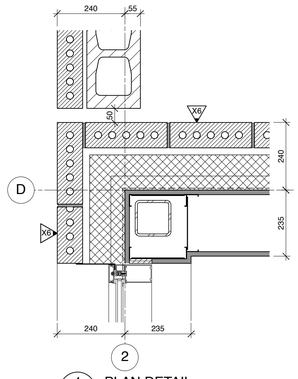
NOTE:
SECURITY SLEEVE / BARS REQUIRED AT ALL DUCTS 150 X 150 OR LARGER PASSING THROUGH SECURE CONCRETE BLOCK WALLS. REFER TO DRAWING A2.1 FOR SECURE WALL LOCATIONS

10 A8.1 TYPICAL SECURE FIRE DAMPER PENETRATION @ CONCRETE BLOCK
Scale: 1:10

14 A2.2 PLAN DETAIL
Scale: 1:10



19 A8.1 TELEPHONE MOUNT - ISOMETRIC VIEW
NOT TO SCALE



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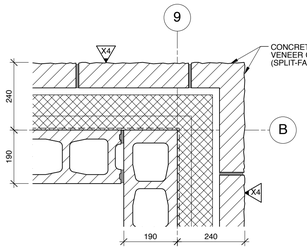
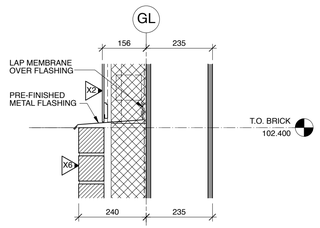
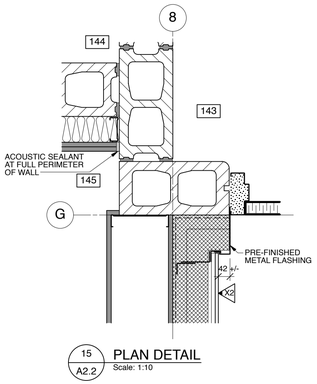
Scale: 1:10



7 A2.2 PLAN DETAIL
Scale: 1:10



11 A3.1 SECTION @ FINISHES TRANSITION
Scale: 1:10



15 A2.2 PLAN DETAIL
Scale: 1:10

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2	ISSUED FOR 95% REVIEW	2017-08-08	SK-ACI
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Seal

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Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

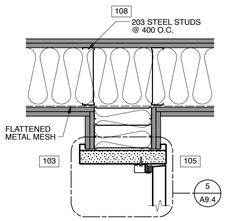
Scale	1:100	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

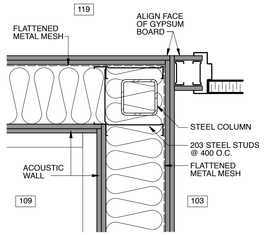
PLAN DETAILS AND SECTIONS

Drawing No.

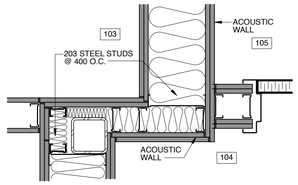
A8.1



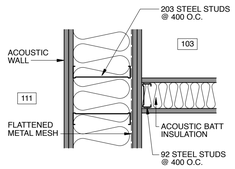
1 A2.2 STC WALL PLAN DETAIL
Scale: 1:10



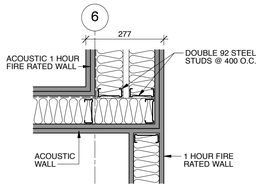
2 A2.2 STC WALL PLAN DETAIL
Scale: 1:10



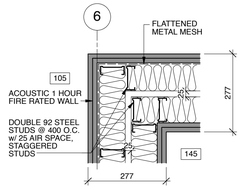
3 A2.2 STC WALL PLAN DETAIL
Scale: 1:10



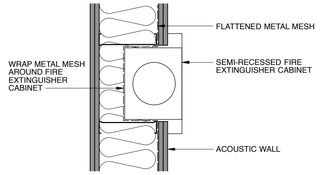
4 A2.2 STC WALL PLAN DETAIL
Scale: 1:10



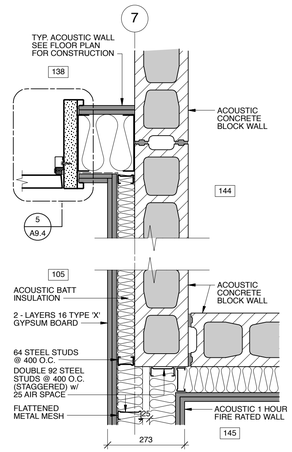
5 A2.2 STC WALL PLAN DETAIL
Scale: 1:10



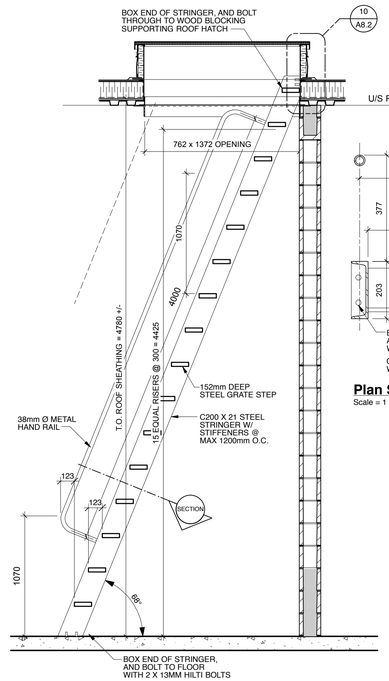
6 A2.2 STC WALL PLAN DETAIL
Scale: 1:10



7 A2.2 SECURE MESH AT FIRE EXTINGUISHER CABINET
Scale: 1:10



8 A2.2 STC WALL PLAN DETAIL
Scale: 1:10



9 A4.1 SHIPS LADDER SECTION
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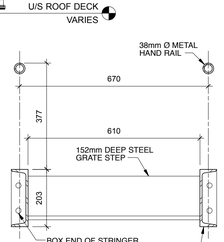
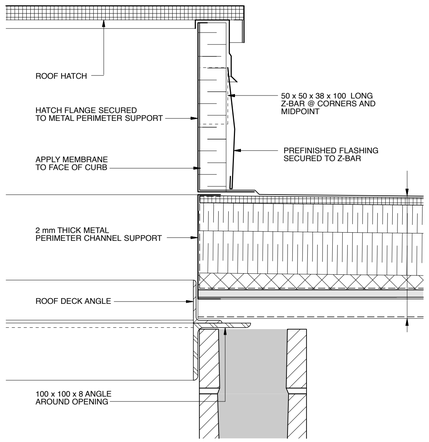
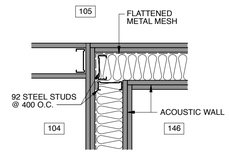


Plan Section
Scale = 1 : 10



10 A8.2 ROOF ACCESS HATCH DETAIL
Scale: 1:5



14 A2.2 STC WALL PLAN DETAIL
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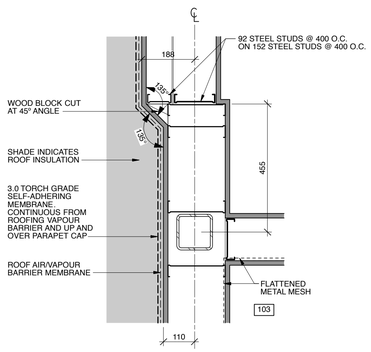
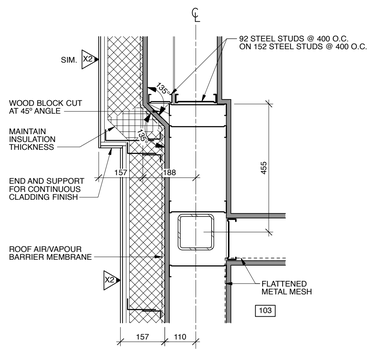
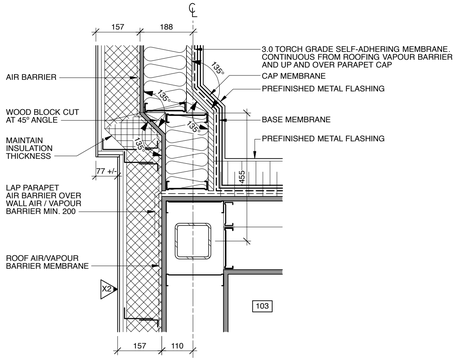


11 A2.3 PLAN DETAIL THROUGH CLERESTORY INSULATION
Scale: 1:10



12 A2.3 PLAN DETAIL THROUGH CLERESTORY WALL
Scale: 1:10



13 A2.3 PLAN DETAIL THROUGH CLERESTORY PARAPET
Scale: 1:10

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Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

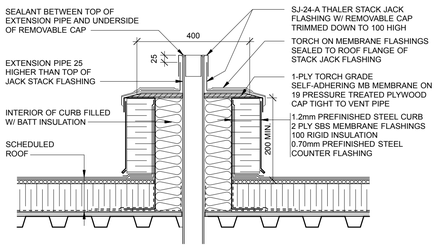
Scale	1:100	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

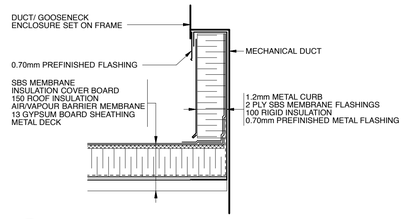
INTERIOR PLAN DETAILS

Drawing No.

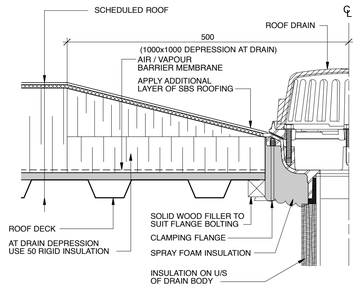
A8.2



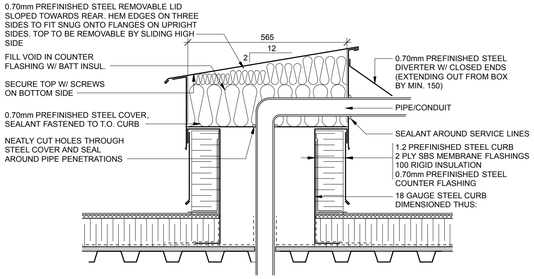
1 A2.3 PLUMBING VENT STACK CURB - TYP.
Scale: 1:10



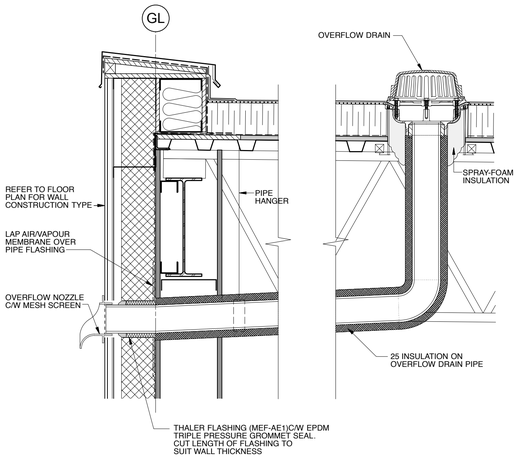
2 A2.3 DUCT PENETRATION CURB - TYP.
Scale: 1:10



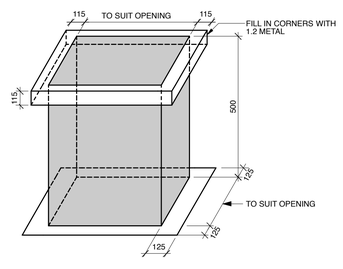
3 A2.3 ROOF DRAIN - TYP.
Scale: 1:5



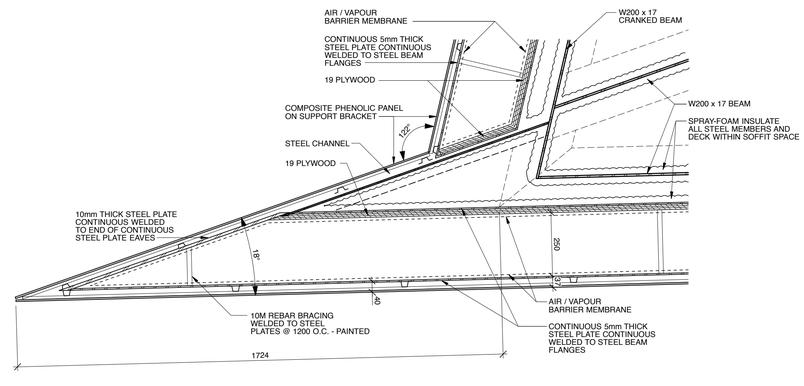
4 A2.3 CURBED SINGLE AND MULTIPLE PIPE PENETRATION - TYP.
Scale: 1:10



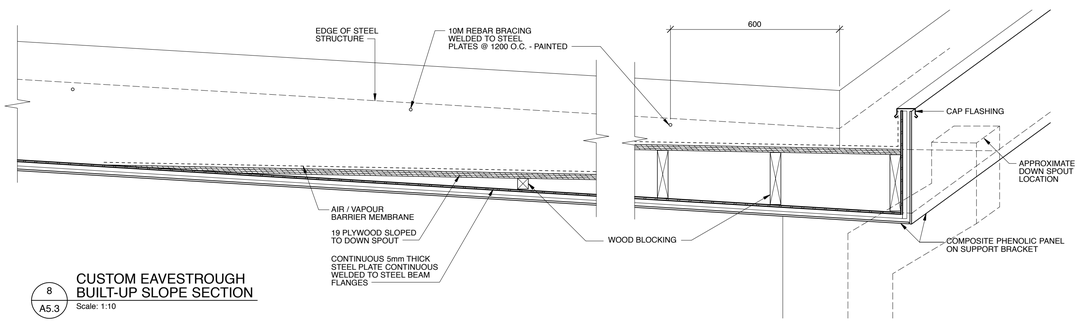
5 A2.3 OVERFLOW DRAIN SECTION
Scale: 1:10



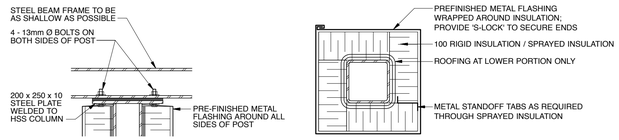
6 A2.3 METAL CURB ISOMETRIC
N.T.S

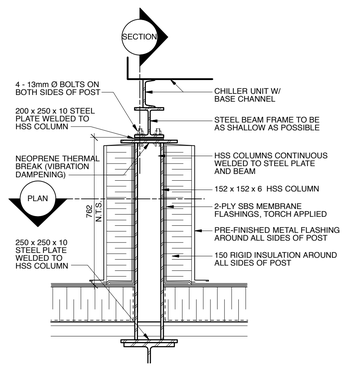


7 A2.3 CUSTOM EAVESTROUGH CORNER PLAN DETAIL
Scale: 1:10

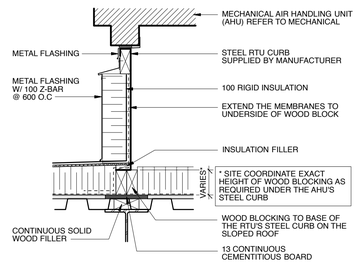


8 A5.3 CUSTOM EAVESTROUGH BUILT-UP SLOPE SECTION
Scale: 1:10





9 A2.3 CHILLER SUPPORT
Scale: 1:10



10 A2.3 AIR HANDLING UNIT CURB DETAIL
Scale: 1:10

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Date	SEPTEMBER 2017	Checked By	PLCB

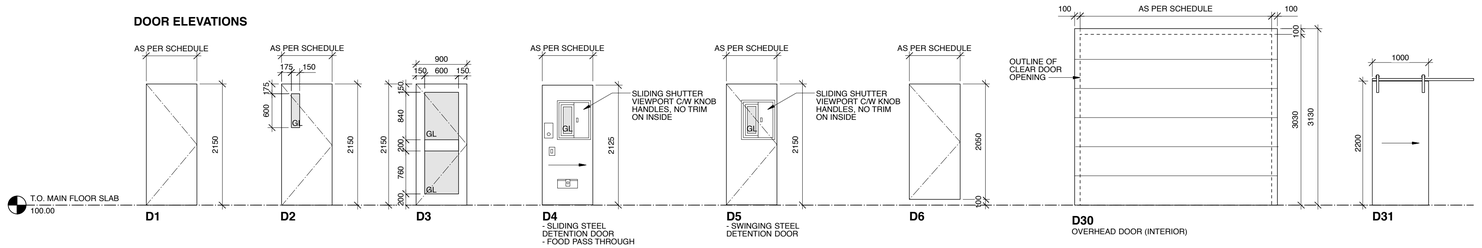
Drawing Title

ROOF DETAILS

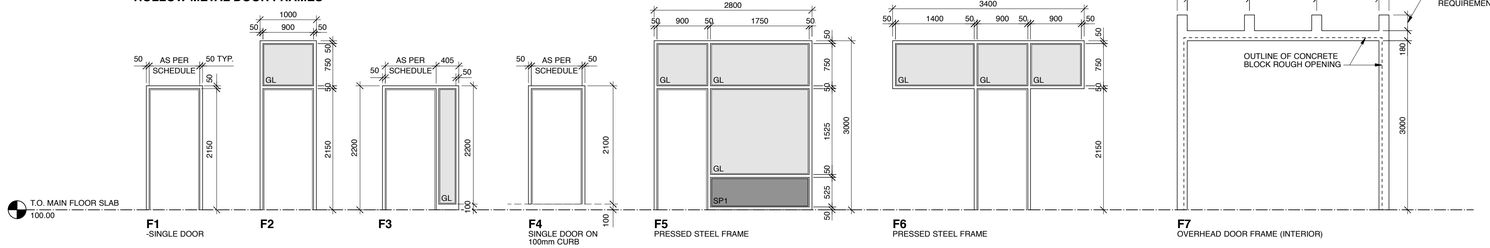
Drawing No.

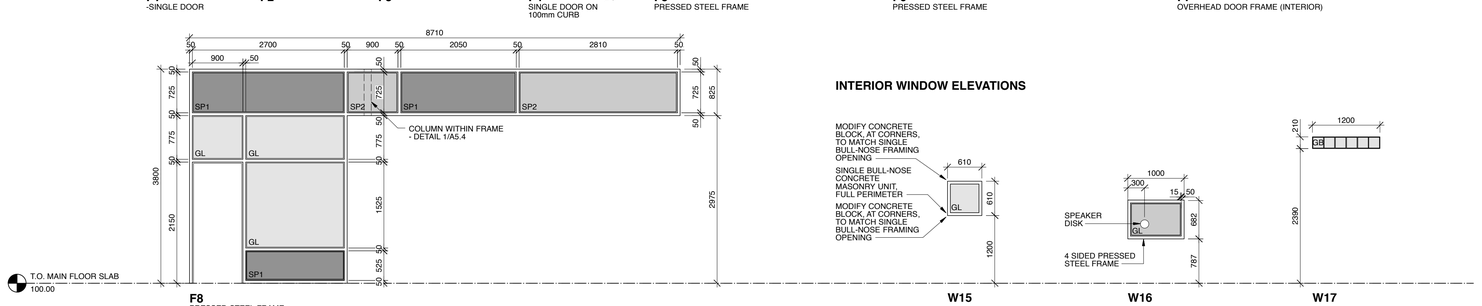
A8.3

DOOR ELEVATIONS



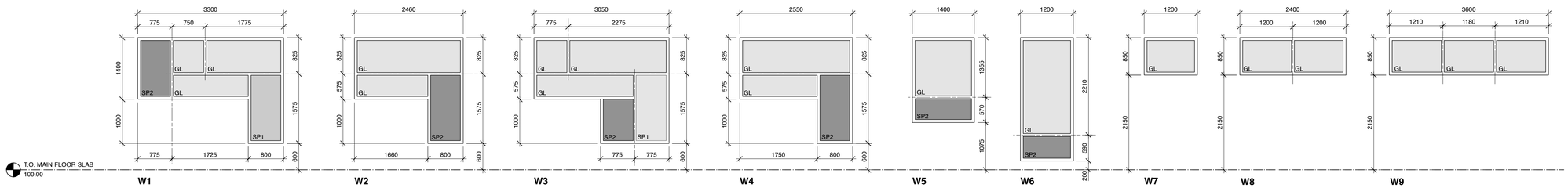
HOLLOW METAL DOOR FRAMES

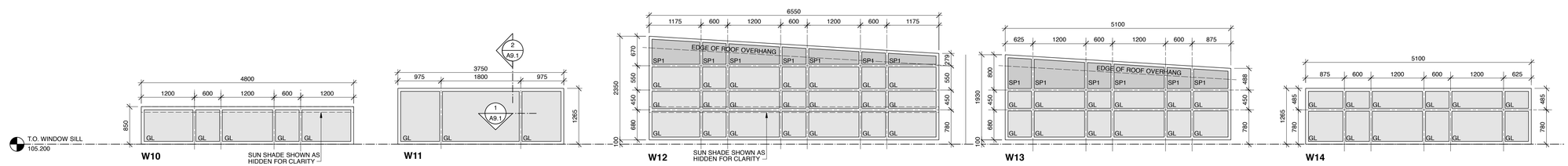


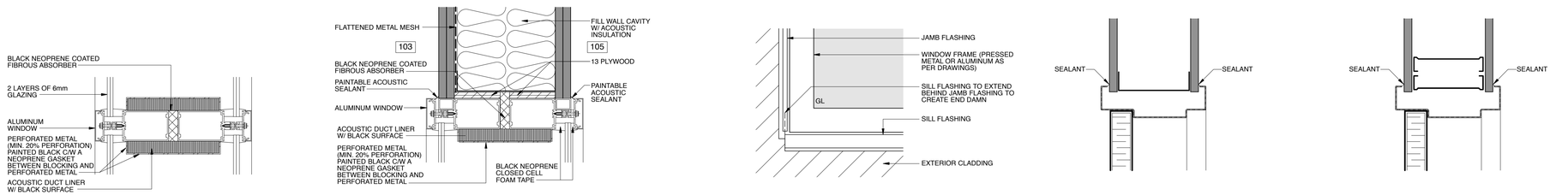


INTERIOR WINDOW ELEVATIONS

ALUMINUM WINDOW FRAMES







MAIN FLOOR DOOR SCHEDULE

DOOR #	FROM	TO	DOOR TYPE	DOOR MATERIAL	DOOR WIDTH	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FIRE RATING	ACOUSTIC RATING	REMARKS
101A	EXT	101	D3	HM	900	PT	F8	PSI	PT			1
101B	101	103	D3	HM	900	PT	F5	PS	PT			
102	102	103	D1	HM	900	PT	F1	PS	PT			4
103	103	119	D1	HM	900	PT	F1	PS	PT			
104	105	104	D1	HM	900	PT	F1	PS	PT			
105A	103	105	D1	AC	900	PT	F1	AC	PT		51	
105B	105	138	D1	AC	900	PT	F1	AC	PT		51	
106	138	106	D1	HM	900	PT	F1	PS	PT	0 MIN		
107	138	107	D1	AC	900	PT	F1	AC	PT		51	
108A	103	108	D1	HM	900	PT	F1	PS	PT			
108B	108	138	D1	HM	900	PT	F1	PS	PT			
109A	103	109	D1	AC	900	PT	F1	AC	PT		51	
109B	109	118	D1	AC	900	PT	F1	AC	PT		51	
110A	103	110	D1	AC	900	PT	F1	AC	PT		51	
110B	110	115	D1	AC	900	PT	F1	AC	PT		51	
111A	103	111	D1	AC	900	PT	F1	AC	PT		51	
111B	111	115	D1	HM	900	PT	F1	PS	PT			
112	114	112	D1	WD	900	PT	F1	PS	-			
116	114	116	D1	WD	900	PT	F3	PS	-			
117	114	117	D1	WD	900	PT	F3	PS	-			
121	120	121	D1	HM	900	PT	F1	PS	PT			
122	120	122	D1	HM	900	PT	F1	PS	PT			
123	120	123	D1	HM	900	PT	F1	PS	PT			
124	120	124	D1	HM	900	PT	F1	PS	PT			
126A	EXT	126	D1	HMI	900	PT	F6	PSI	PT			1, 5
126B	120	126	D31	WD	1000	P.LAM	-	-	-			
126C	PATIO	EXT	D1	HM	900	PT	F1	PS	PT			
127A	EXT	127	D1	HMI	900	PT	F2	PSI	PT			1, 5
127B	127	120	D2	HM	900	PT	F1	PS	PT			
128A	EXT	128	D1	HMI	900	PT	F1	PSI	PT			1, 5
128B	EXT	128	D30	OH	3400 x 3130	FPC	F7	ST	PT			6
128C	127	128	D1	HM	900	PT	F1	PS	PT	60 MIN		
129	127	129	D1	HM	900	PT	F1	PS	PT	45 MIN		
130	120	129	D1	HM	900	PT	F1	PS	PT	0 MIN		
132	120	132	D1	HM	900	PT	F1	PS	PT	45 MIN		
133	132	133	D1	HM	900	PT	F1	PS	PT	45 MIN		
134	133	134	D1	HM	900	PT	F1	PS	PT	45 MIN		
135	120	135	D1	HM	900	PT	F1	PS	PT	45 MIN		
136	120	136	D1	HM	900	PT	F1	PS	PT	45 MIN		
137	120	137	D1	HM	900	PT	F1	PS	PT	45 MIN		
139	138	139	D1	HM	900	PT	F1	PS	PT	0 MIN		
140	138	140	D1	HM	900	PT/HBC	F1	PS	PT/HBC	45 MIN		2
141	138	141	D1	AC	900	PT/HBC	F1	AC	PT/HBC	45 MIN	51	
142	143	142	D1	AC	900	HBC	F1	AC	HBC		51	
143A	EXT	143	D1	HMI	900	PT/HBC	F1	PS	PT/HBC			3, 5
143B	EXT	143	D1	HMI	900	PT/HBC	F1	PS	PT/HBC			3, 5
144	143	144	D1	AC	900	HBC	F1	AC	HBC		51	
145	EXT	145	D1	HMI	900	PT	F1	PSI	PT			1,5
146	145	146	D1	HM	900	PT	F1	PS	PT	45 min		
147	143	147	D1	HM	900	HBC	F1	PS	HBC	0 MIN		2
148	143	148	D5	DD	900	HBC	F1	PS	HBC			2
149A	EXT	149	D1	HMI	900	PT/HBC	F1	PS	PT/HBC			3, 5
149B	EXT	149	D30	OH	3600 x 3130	FPC	F7	ST	PT			6
149C	EXT	149	D30	OH	3600 x 3130	FPC	F7	ST	PT			6
149D	149	143	D1	HM	900	HBC	F1	PS	HBC	60 MIN		2
150	143	150	D4	SD	914	HBC	-	-	HBC			
151	143	151	D6	HM	800	HBC	F4	PS	HBC			2
152	143	152	D4	SD	914	HBC	-	-	HBC			
153	143	153	D4	SD	914	HBC	-	-	HBC			
154	143	154	D6	HM	800	HBC	F4	PS	HBC			2
155	143	155	D4	SD	914	HBC	-	-	HBC			
156	143	156	D4	SD	914	HBC	-	-	HBC			
157	143	157	D6	HM	800	HBC	F4	PS	HBC			2
158	143	158	D4	SD	914	HBC	-	-	HBC			
159	143	159	D4	SD	914	HBC	-	-	HBC			
160	143	160	D6	HM	800	HBC	F4	PS	HBC			2
161	143	161	D4	SD	914	HBC	-	-	HBC			
162	143	162	D4	SD	914	HBC	-	-	HBC			
163	143	163	D6	HM	800	HBC	F4	PS	HBC			2
164	143	164	D4	SD	914	HBC	-	-	HBC			
165	143	165	D4	SD	914	HBC	-	-	HBC			
166	143	166	D6	HM	800	HBC	F4	PS	HBC			2
167	143	167	D4	SD	914	HBC	-	-	HBC			
168	143	168	D4	SD	914	HBC	-	-	HBC			
169	143	169	D6	HM	800	HBC	F4	PS	HBC			2
170	143	170	D4	SD	914	HBC	-	-	HBC			
171	143	171	D1	HM	900	HBC	F1	PS	HBC			2
172	143	172	D1	HM	800	HBC	F1	PS	HBC	0 MIN		2
173	140	173	D1	HM	900	HBC	F1	PS	HBC	0 MIN		2
174	140	174	D1	HM	800	HBC	F1	PS	HBC			2

STORAGE SHED DOOR SCHEDULE

SS1	EXT	SS1	D1	HM	900	PT	F1	PS	PT			5
SS2A	EXT	SS2	D1	HM	900	PT	F1	PS	PT			5
SS2B	EXT	SS2	D30	OH	3400 x 3100	FPC	F7	ST	PT			6
SS2C	EXT	SS2	D30	OH	3400 x 3100	FPC	F7	ST	PT			6

LEGEND:

AC	SPECIALTY METAL ACOUSTIC
DD	DETENTION DOORS (SWINGING)
FPC	FACTORY PAINTED OR COATED
HBC	HIGH BUILD COATING
HM	HOLLOW METAL
HMI	HOLLOW METAL INSULATED
OH	OVERHEAD SECTIONAL DOOR
P.LAM	PLASTIC LAMINATE
PS	PRESSED STEEL
PSI	PRESSED STEEL INSULATED
PTD	PAINTED
SD	SLIDING STEEL DETENTION DOOR
ST	STEEL
WD	SOLID CORE WOOD DOOR

GENERAL NOTES:

A) ALL DOORS ARE TO BE A HEIGHT OF 2150mm UNLESS NOTED OTHERWISE.

B) GLAZING IN ALL DOORS, SIDELIGHTS AND TRANSOMS TO BE 6mm TEMPERED UNLESS NOTED OTHERWISE IN REMARKS BELOW

REMARKS:

1. INSULATE DOOR(S) AND FRAME.
2. GROUT FILL FRAME.
3. INSULATE DOOR(S) AND GROUT FILL FRAME.
4. REMOTE CONTROL DOOR RELEASE TO FRONT COUNTER.
5. DOOR(S) TO BE INTERNALLY STEEL STIFFENED.
6. DOOR(S) AND HARDWARE PROVIDED BY SECTIONAL OVERHEAD DOOR MANUFACTURER. PROVIDE STEEL BACKING PLATES AS REQUIRED BY OVERHEAD DOOR SUPPLIER.

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Seal

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

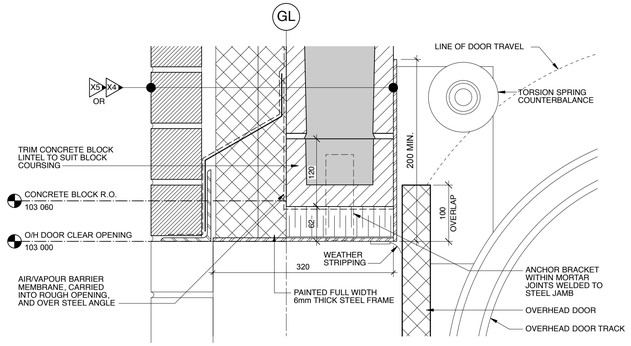
Scale	1:100	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

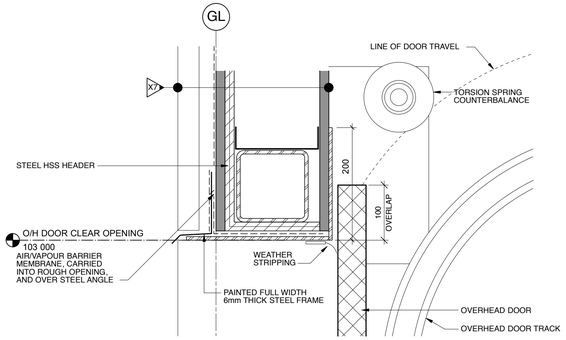
DOOR SCHEDULE AND DOOR AND WINDOW ELEVATIONS

Drawing No.

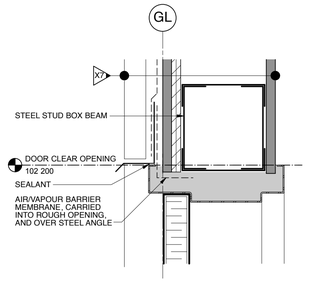
A9.1



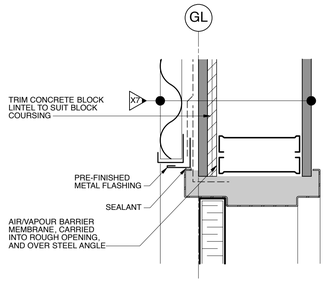
1 A5.1 TYPICAL OVERHEAD DOOR HEAD
Scale: 1:5



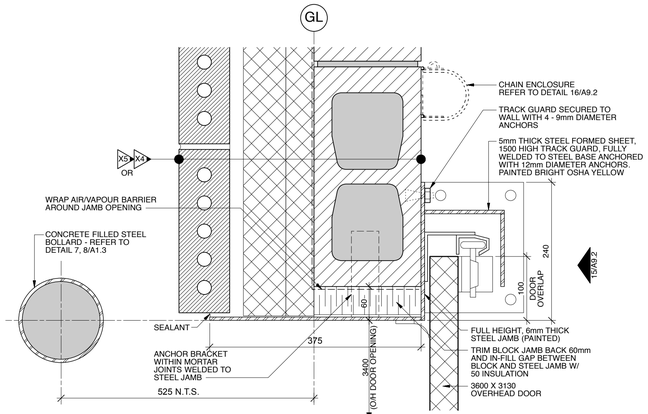
2 A1.2 OUTBUILDING OVERHEAD DOOR HEAD
Scale: 1:5



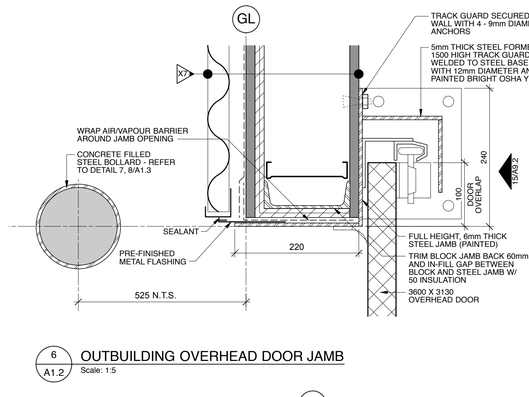
3 A1.2 OUT BUILDING DOOR HEAD
Scale: 1:5



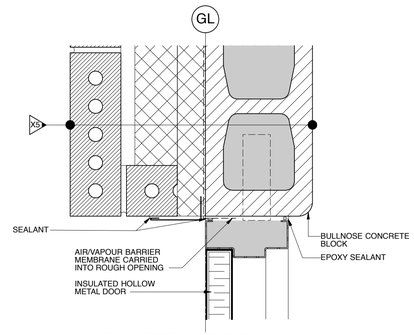
4 A1.2 OUT BUILDING DOOR JAMB
Scale: 1:5



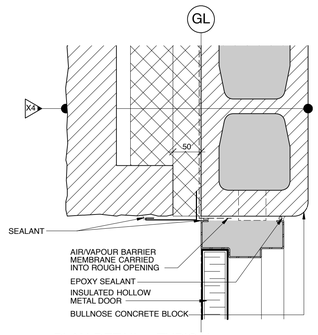
5 A5.1 TYPICAL OVERHEAD DOOR JAMB
Scale: 1:5



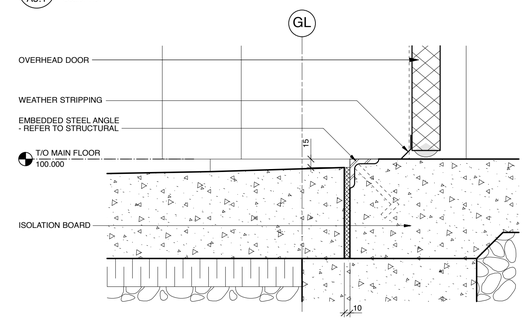
6 A1.2 OUTBUILDING OVERHEAD DOOR JAMB
Scale: 1:5



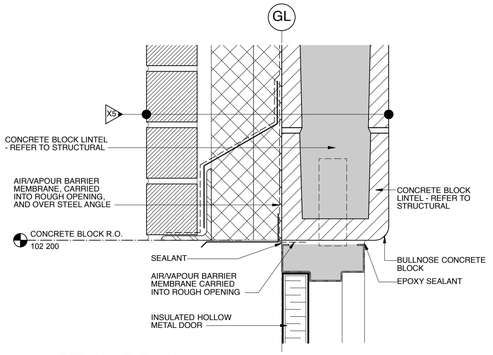
7 A9.2 PLAN DETAIL - TYPICAL BRICK VENEER DOOR JAMB
Scale: 1:5



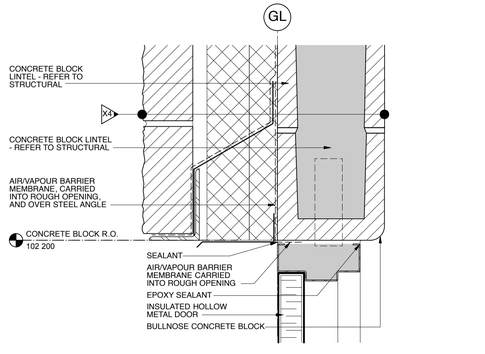
8 A9.2 PLAN DETAIL - TYPICAL CONCRETE BLOCK DOOR JAMB
Scale: 1:5



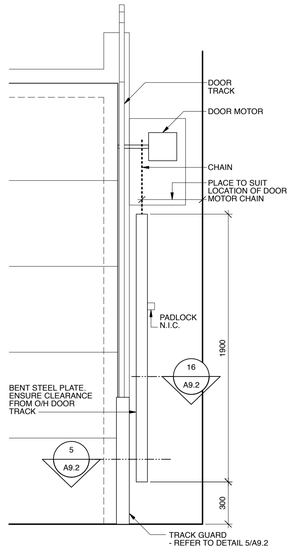
9 A5.1 SECTION - TYPICAL OVERHEAD DOOR SILL
Scale: 1:5



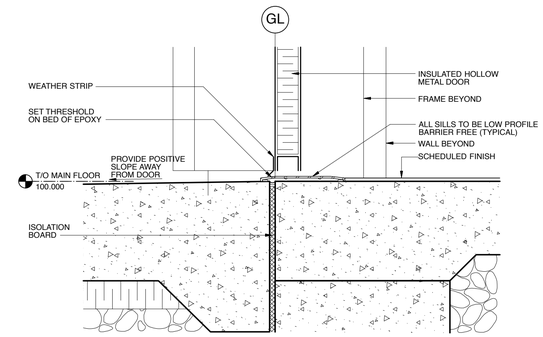
10 A9.2 SECTION - TYPICAL BRICK VENEER DOOR HEAD
Scale: 1:5



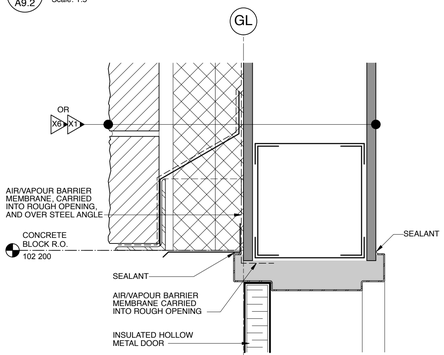
11 A9.2 SECTION - TYPICAL CONCRETE BLOCK DOOR HEAD
Scale: 1:5



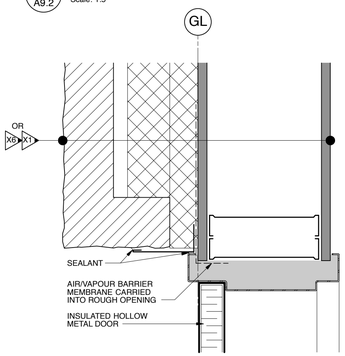
15 A9.2 CHAIN ENCLOSURE ELEVATION
Scale: 1:20



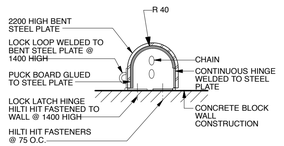
12 A9.2 SECTION - TYPICAL DOOR THRESHOLD
Scale: 1:5



13 A9.2 SECTION - TYPICAL SPLIT-FACED MASONRY W/ STUD WALL DOOR HEAD
Scale: 1:5



14 A9.2 PLAN DETAIL - TYPICAL SPLIT-FACED MASONRY W/ STUD WALL DOOR JAMB
Scale: 1:5



16 A9.2 CHAIN ENCLOSURE DETAIL (CE)
Scale: 1:5

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Seal

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Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

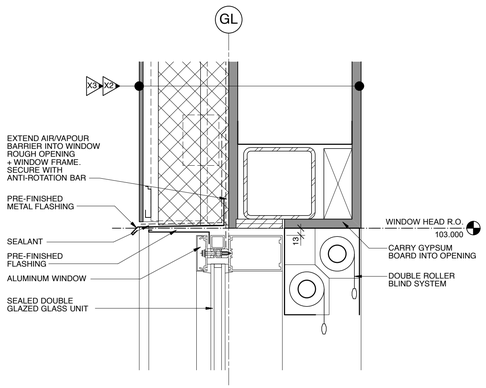
Scale	1:100	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

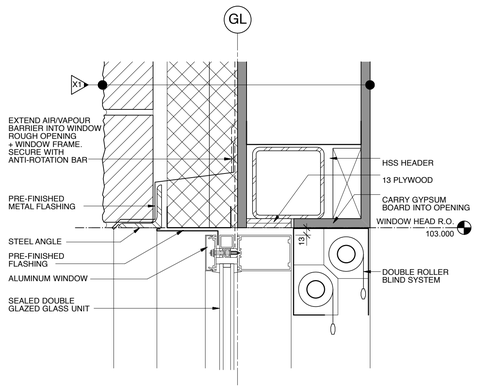
DOOR SECTIONS AND DETAILS

Drawing No.

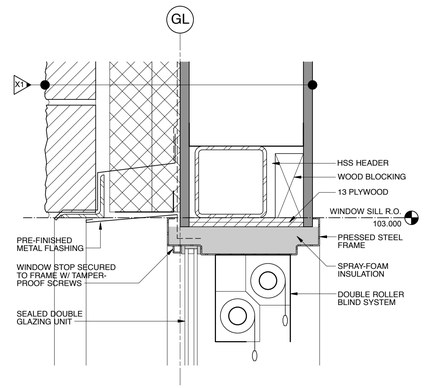
A9.2



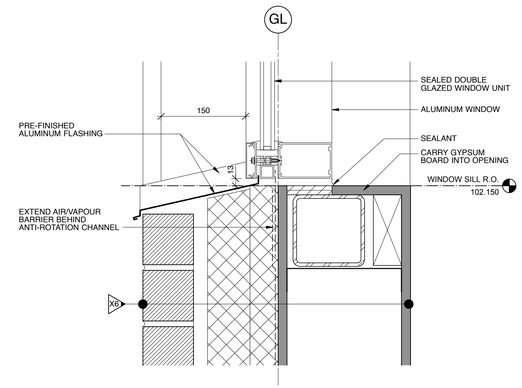
1 / A5.2 SECTION - TYPICAL WINDOW HEAD
Scale: 1:5



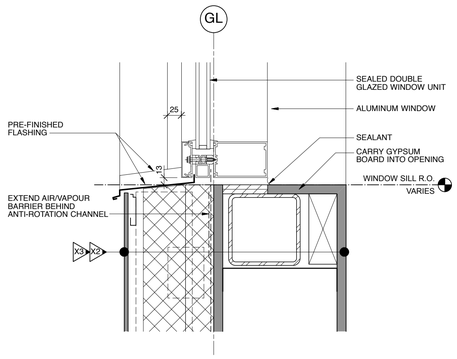
4 / A5.2 SECTION - ALUMINUM WINDOW HEAD @ BLOCK VENEER
Scale: 1:5



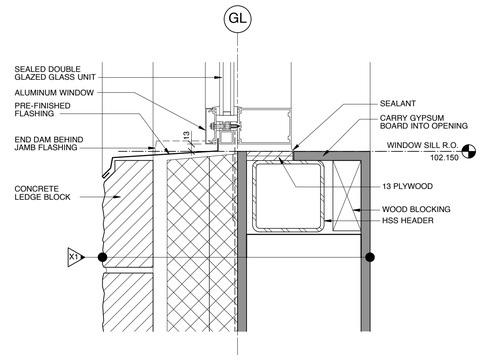
7 / A5.1 SECTION - PRESSED STEEL WINDOW HEAD @ BLOCK VENEER
Scale: 1:5



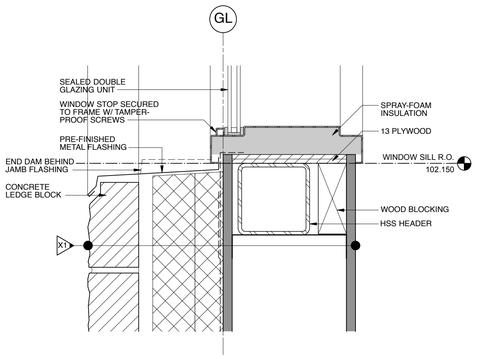
10 / A5.2 SECTION - WINDOW SILL @ BRICK VENEER
Scale: 1:5



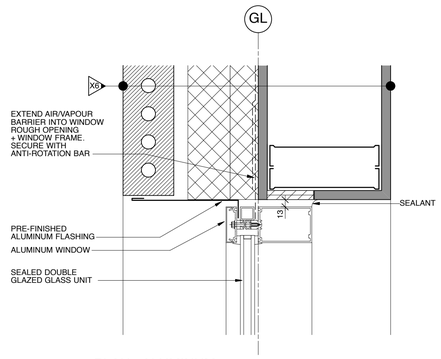
2 / A5.2 SECTION - TYPICAL WINDOW SILL
Scale: 1:5



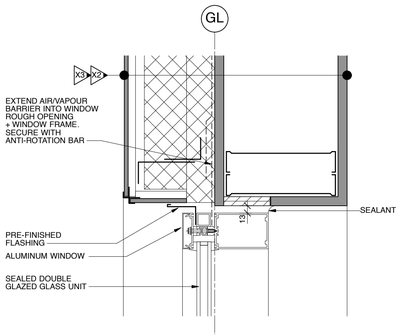
5 / A5.2 SECTION - ALUMINUM WINDOW SILL @ BLOCK VENEER
Scale: 1:5



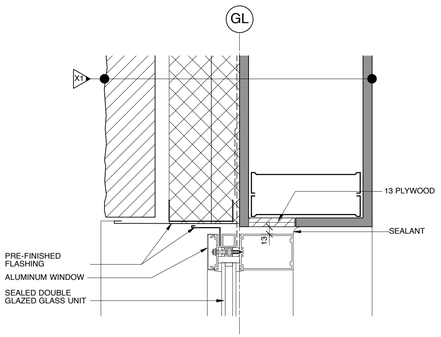
8 / A5.1 SECTION - PRESSED STEEL WINDOW SILL @ BLOCK VENEER
Scale: 1:5



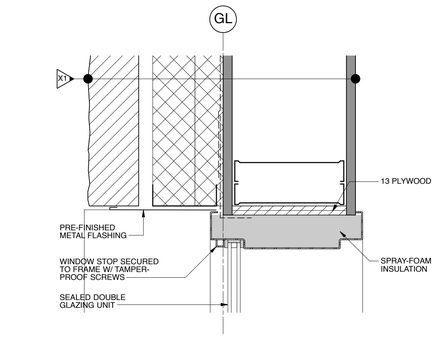
11 / A5.2 PLAN - ALUMINUM WINDOW JAMB AT@ BRICK VENEER
Scale: 1:5



3 / A5.2 PLAN DETAIL - TYPICAL WINDOW JAMB
Scale: 1:5



6 / A5.2 SECTION - ALUMINUM WINDOW JAMB @ BLOCK VENEER
Scale: 1:5



9 / A5.1 PLAN - PRESSED STEEL WINDOW JAMB @ BLOCK VENEER
Scale: 1:5

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WABASCA / DESMARAIS GOVERNMENT BUILDING

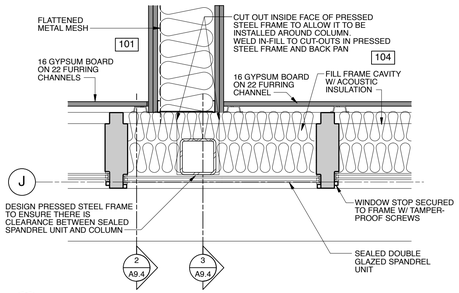
Scale	AS NOTED	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

WINDOW SECTIONS AND DETAILS

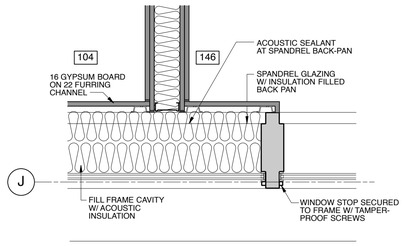
Drawing No.

A9.3



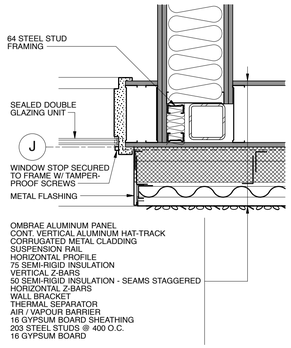
1 A2.2 PLAN - COLUMN THRU WINDOW

Scale: 1:10



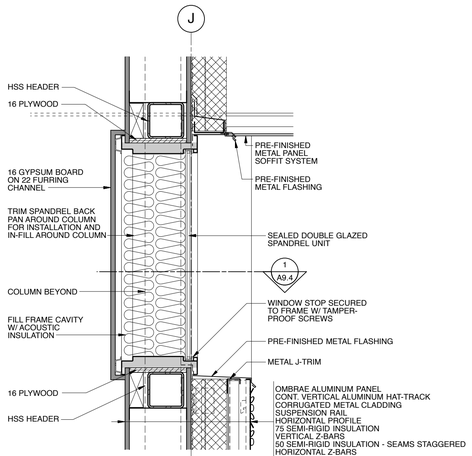
4 A2.2 PLAN - COLUMN THRU WINDOW

Scale: 1:10



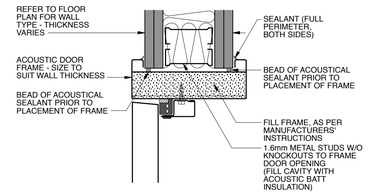
8 A2.2 PLAN DETAIL

Scale: 1:10



2 A5.4 SECTION - PRESSED STEEL SPANDREL WINDOW

Scale: 1:10

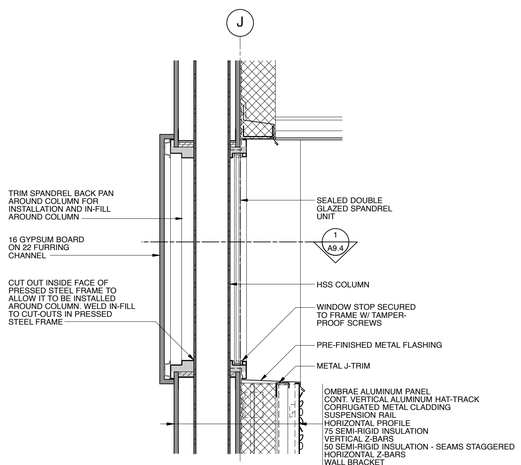


5 A9.4 TYPICAL ACOUSTIC DOOR JAMB @ STUD WALL PARTITION

Scale: 1:5

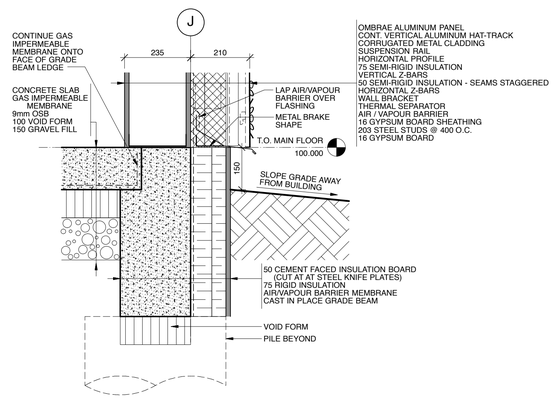
6 A6.2 TYPICAL ACOUSTIC DOOR JAMB @ CONCRETE BLOCK WALL

Scale: 1:5



3 A9.4 SECTION - PRESSED STEEL SPANDREL WINDOW THRU COLUMN

Scale: 1:10



7 A5.2 SECTION @ WALL FOUNDATION

Scale: 1:10

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Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 95% REVIEW	2017-08-08	SK-ACI
2	ISSUED FOR TENDER	2017-09-12	SK-ACI

Seal

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

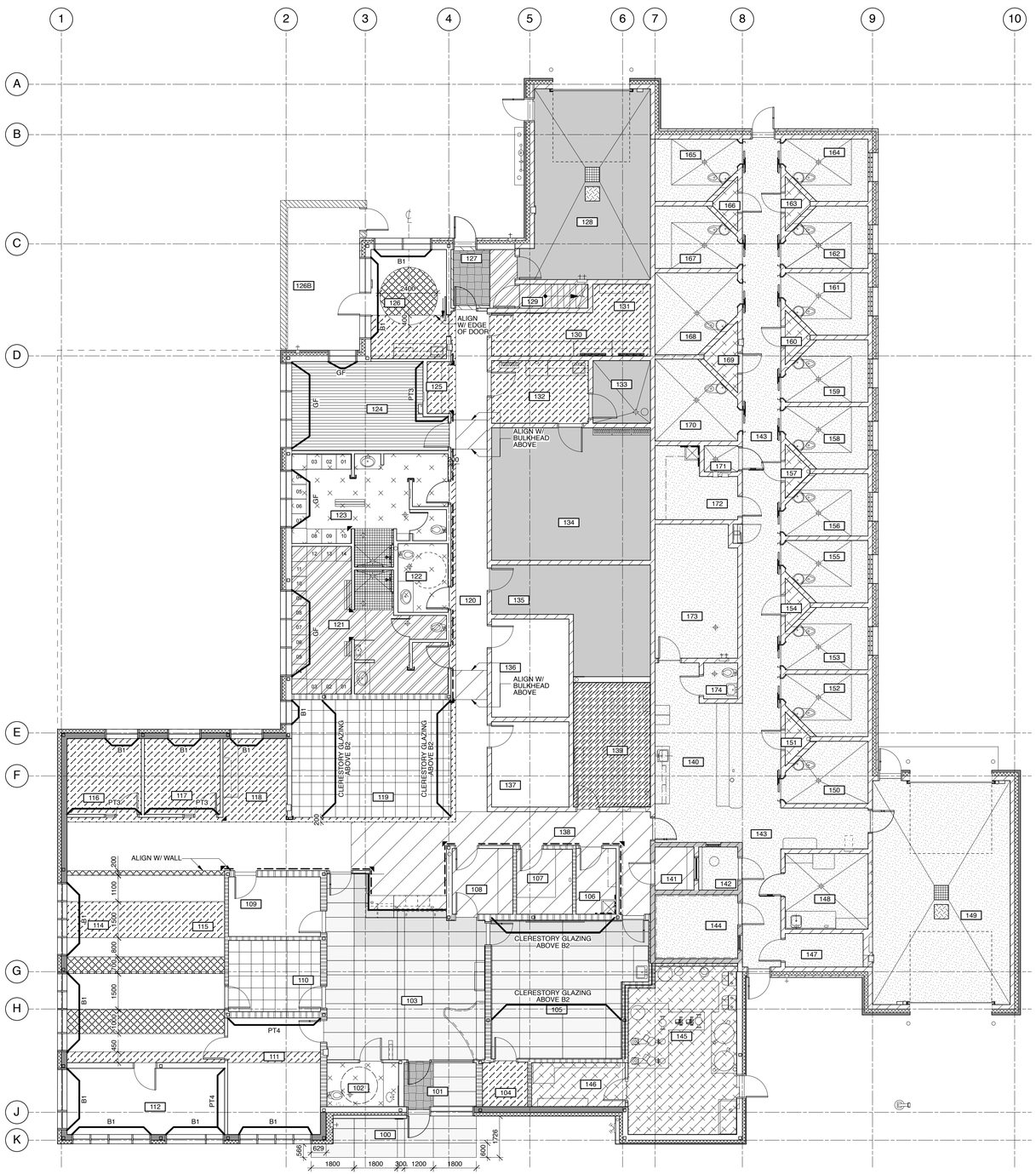
Scale	AS NOTED	Designed By	AVB
Project No.	9031	Drawn By	SS
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

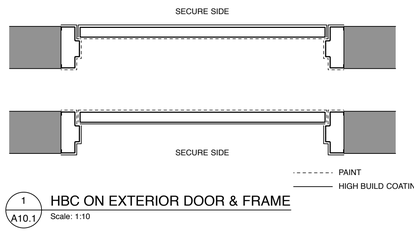
DOOR AND WINDOW SECTIONS AND DETAILS

Drawing No.

A9.4



1 / A10.1 FINISHES PLAN
Scale: 1:100



1 / A10.1 HBC ON EXTERIOR DOOR & FRAME
Scale: 1:10

FINISH LEGEND

CARPET TILE:

CPT1 MASLAND CONTRACT, MODULAR
DISTRESSED, T515 DIMINISHING GRID
51505 GRILLE

PORCELAIN FLOOR TILE:
REFER TO PLAN 1/A10.1 FOR TILE SIZE & LAYOUT

PFT1 STONE TILE
KURSAAL SERIES
NEUTRAL
30CM x 60CM
60CM x 120CM
60CM x 180CM
GROUT: FLEXTILE COLOURMAX PLUS
687 DESERT

PFT2 STONE TILE
KURSAAL SERIES
RAVEN
30CM x 60CM
60CM x 120CM
60CM x 180CM
GROUT: FLEXTILE COLOURMAX PLUS
663 NORTH SEA GREY

MOSAIC PORCELAIN TILE:

MT1 OLYMPIA TILE & STONE
QUEBEC SERIES,
BLACK FS 2"X 2"
GROUT: FLEXTILE COLOURMAX PLUS
663 NORTH SEA GREY

SHEET VINYL:

SV1 ARMSTRONG
CONNECTION, CORLON
68700 ANTHRACITE

SV2 ARMSTRONG
CONNECTION, CORLON
68702 WHITE CLIFFS

LINOLEUM:

LIN1 FORBO,
MARMOLEUM REAL
3139, LAVA

LIN2 FORBO,
WALTON UNI
171 CEMENT

LIN3 FORBO
MARMOLEUM REAL
3257, EDELWEISS

LIN4 FORBO,
MARMOLEUM FRESCO
386, NATURAL CORN

EPOXY QUARTZ FLOORING:

EQF1 STONHARD
STONESHIELD, DRIFTWOOD

EPOXY PAINT:

EP1 MATCH
DULUX 7DYY 46/053
AGED STUCCO

RUBBER SPORTS FLOORING:

RSF1 MONDO RAMFLEX
707, GREY

RUBBER BASE:

RB1 JOHNSONITE
63, BURNT UMBER

CONCRETE

ENTRANCE MATTING:

EDGEWOOD MATTING

EM1 DEBRIS TRAP TILE 13mm
INTERLOCKING, BLACK

CERAMIC WALL TILE:

CWT1 DIVISION 9, IRIS CERAMICA
MAIOLICA, 100 x 300
CAS754987 NERO (BLACK)
GROUT: FLEXTILE COLOURMAX PLUS
651 SNOW WHITE

CWT2 DIVISION 9, IRIS CERAMICA
MAIOLICA, 100 x 300
CAS754988 LATTE (WHITE)
GROUT: FLEXTILE COLOURMAX PLUS
651 SNOW WHITE

CWT3 DIVISION 9, IRIS CERAMICA
MAIOLICA, 100 x 300
CAS754980 OCRA (YELLOW)
GROUT: FLEXTILE COLOURMAX PLUS
651 SNOW WHITE

CWT4 DIVISION 9, IRIS CERAMICA
MAIOLICA, 100 x 300
CAS754983 ROSSO (RED)
GROUT: FLEXTILE COLOURMAX PLUS
683 PEARL

CWT5 STONE TILE
TOUCH SERIES, 10CM X 30CM
SMOKE MAT
GROUT: FLEXTILE COLOURMAX PLUS
685 CHARCOAL

CWT6 STONE TILE
TOUCH SERIES, 10CM X 30CM
SMOKE STRUT
GROUT: FLEXTILE COLOURMAX PLUS
685 CHARCOAL

CWT7 STONE TILE
TOUCH SERIES, 10CM X 30CM
WHITE MAT
GROUT: FLEXTILE COLOURMAX PLUS
651 SNOW WHITE

CWT8 STONE TILE
TOUCH SERIES, 10CM X 30CM
WHITE STRUT
GROUT: FLEXTILE COLOURMAX PLUS
651 SNOW WHITE

PLASTIC LAMINATE:

PL1 ARBORITE,
P-300 SR
TATAMI MITSU

PL2 WILSONART
7976K-12
WHITE CYPRESS

PL3 FORMICA
5883-58
PECAN WOODLINE

PL4 WILSONART
1595K-18
BLACK

SOLID SURFACE:

SUR1 HANEX
BL-002 CELADON

PAINT:

PT1 BENJAMIN MOORE
OC-59, VANILLA MILSHAKE

PT2 DULUX
90YY 63/044, OYSTER BAY

PT3 DULUX
70YY 46/053, AGED STUCCO

PT4 DULUX
30YY 58/423, SWEET CORN

PT5 CLOVERDALE PAINT
117, SIREN

HIGH BUILD COAT PAINT:

HBC SIKA, RAL 9010, REINWEIL
(WALLS & CEILING)

ACOUSTIC FABRIC PANELS:

ACP1 MAHARAM,
MESSENGER 458640, 046 ICE

ACP2 MAHARAM,
SPIRAL 901882, 006 GRAPHITE

ACP3 TECTUM PANELS, WHITE

STATIC DISSIPATIVE TILE:

SD1 ARMSTRONG, SDT,
51953, PEARL WHITE

ROLLER BLIND:

R1 MANUAL ROLLER BLIND. REFER
TO SPECIFICATION BOOK

R2 MOTORIZED BLIND. REFER
TO SPECIFICATION BOOK

GLAZING FILM:

GF GLAZING FILM

TOILET PARTITIONS:

RM 121,123 SHANAHANS - 220 SLATE

LOCKERS:

RM 121,123, 132, AND 140
SHANAHANS - 100 PURE WHITE

REMARKS:

A. REFER TO ELEVATIONS FOR TILE LOCATIONS AND LAYOUT.
B. REFER TO ELEVATIONS FOR EXTENT OF CHAIR RAIL.
C. REFER TO FINISH NOTE 7 FOR LOCATION AND EXTENT OF CERAMIC WALL TILE.
D. REFER TO ELEVATIONS FOR LAYOUT AND EXTENT OF FABRIC WRAPPED ACOUTIC WALL PANELS.
E. REFER TO ELEVATIONS AND/OR FINISH PLAN FOR LOCATION AND EXTENT OF WALL PROTECTION.
F. REFER TO A7.7 FOR SUITOM BASE DETAIL.
G. REFER TO ELEVATIONS FOR MIRROR LAYOUT.
H. IN AREAS REQUIRING INTEGRAL COVE BASE, BASE SHALL BE 100mm HIGH.
J. REFER TO ELEVATIONS, REFLECTED CEILING PLAN AND SPECIFICATION FOR ACOUSTIC PANELS.

FINISH NOTES:

APPLIES TO THIS SHEET ONLY

1. DRAWING TO BE USED FOR INDICATION OF FLOOR PATTERNING ONLY.
2. EXTENT OF FLOOR PATTERNING INDICATED BY SHADED, HATCHED AND BLANK AREAS.
3. FLOORING TRANSITIONS TO OCCUR AT CENTER LINE OF DOORS, EXCEPT AT ACOUSTIC DOORS IF FLOOR MATERIALS ARE NOT FLUSH, THEN ONE FLOOR MATERIAL TO BE USED UNDER THRESHOLD.
4. PAINT ALL EXPOSED CEILING STRUCTURE AND DECK PT1.
5. PAINT ALL INTERIOR METAL RAILINGS AND EXPOSED METAL ON SHIPS LADDER PT3.
6. ALL LOOSE FURNISHINGS & FIXTURES N.I.C. PROVIDED FOR INFORMATION ONLY.
7. PROVIDE 1200mm HIGH x FULL WIDTH x 20mm PAST EACH END OF MOP SINK AT ADJACENT WALL IN ROOMS 106 & 172, STANDARD WHITE 100mm x 100mm CERAMIC TILE WITH WHITE SILICONE FILL OF 3mm JOINTS. ALL MOP SINK LOCATIONS. FOR OTHER CERAMIC TILE LOCATIONS, REFER TO DRAWING A6.1.
8. PAINT ALL DRYWALL BULKHEADS PT1.
9. PAINT ALL DRYWALL, CONCRETE AND CONCRETE BLOCKS.
10. PROVIDE PLYWOOD BACKING FOR FUTURE SMARTBOARD, TACKBOARD, TELEVISION, AND WHITEBOARD AS LOCATED ON DRAWING AS N.I.C.
11. U.N.O PAINT ALL WALLS PT1.
12. PAINT ALL DOORS AND FRAMES PT2.
13. REFER TO FINISH PLAN AND INTERIOR ELEVATIONS FOR ACCENT PAINT LOCATIONS, EXTENTS AND FEATURES.
14. SECURE SIDE OF DOOR AND FRAME 140, 143, 143B AND 149A TO RECEIVE HIGH BUILD COAT. NON SECURE SIDE OF DOOR AND FRAMES OF THOSE LISTED HERE TO BE PT2.
15. ALL DOORS AND FRAMES WITHIN GRID LINE 7 TO 10 AND B TO H TO RECEIVE HIGH BUILD COAT FINISH. DOORS AND FRAMES TO BE PRIMED COMPATABLE WITH HIGH BUILD COATING.

MAIN FLOOR ROOM FINISH SCHEDULE

ROOM #	FLOOR		WALLS		CEILING		REMARKS
	FINISH	BASE	MATERIAL	FINISH	MATERIAL	FINISH	
100	PFT	--	--	--	--	--	
101	EM/PFT	PFTB	GB	PT	GB	PT	
102	SV	RB/CWT	GB	PT/CWT	GB	PT	A.
103	PFT	PFTB/SS	GB	PT	GB	PT	D.
104	LIN	RB	GB	PT	GB	PT	
105	PFT	PFTB	GB	PT	GB	PT	B. D.
106	LIN	RB	GB	PT/CWT	GB	PT	C.
107	LIN	RB	GB	PT	AP	--	
108	LIN	RB	GB	PT	AP	--	
109	LIN	RB	GB	PT	AP	--	
110	CPT	RB	GB	PT	AP	--	
111	LIN	RB	GB	PT	AP	--	
112	LIN	RB	GB	PT	AP	--	
114/115	LIN	RB	GB	PT/WP	AP/GB	--/PT	E.
116	LIN	RB	GB	PT	AP/GB	--/PT	
117	LIN	RB	GB	PT	AP/GB	--/PT	
118	LIN	RB	GB	PT	AP	--	
119	CPT/LIN	RB	GB	PT/WP	EX/GB/AP	PT/PT/--	D. E.
120	LIN	RB	GB/CB	PT/WP	AP/GB	--/PT	E.
121	SV/MT	RB/CWT	GB	PT/CWT	GB	PT	A.
122	SV	RB/CWT	GB	PT/CWT	GB	PT	A.
123	SV/MT	RB/CWT	GB	PT/CWT	GB	PT	A.
124	RSF	CRB	GB	PT	EX	PT	F. G.
125	LIN	RB	GB	PT	GB	PT	
126	LIN	RB	GB	PT	GB/AP	PT/--	
126B	CONC	--	--	--	--	--	
127	EM/RF	RB	GB/CB	PT/WP	GB	PT	E.
128	EP	RB	CB	EP	EX	PT	
129	SV	RB	CB	PT	EX	PT	
130/131	LIN	RB	CB	PT	AP	--	
132	LIN	RB	CB	PT	CONC	PT	
133	EP	RB	CB	EP	CONC	PT	
134	EP	RB	CB	PT	CONC	PT	
135	EP	RB	CB	PT	EX	PT	
136	LIN	RB	CB	PT	AP	--	
137	LIN	RB	CB	PT	AP	--	
138	LIN	RB	CB/GB	PT/WP	AP/GB	--/PT	E.
139	SD	RB	CB	PT	EX	PT	
140	EQF	ICB	CB	HBC	GB	HBC	H.
141	LIN	RB	CB	PT	GB	PT	
142	EQF	ICB	CB	HBC	GB	HBC	H.
143	EQF	ICB	CB	HBC	GB	HBC	H.
144	EQF	ICB	CB	HHBC	GB	PT	J.
145	--	--	CB/GB	PT	--	--	
146	--	--	GB	PT	--	--	
147	EQF	ICB	CB	HBC	GB	HBC	H.
148	EQF	ICB	CB	HBC	GB	HBC	H.
149	EQF	ICB	CB	HBC	EX	PT	H.
150	EQF	ICB	CB	HBC	CONC	HBC	H.
151	--	--	CB	--	--	--	
152	EQF	ICB	CB	HBC	CONC	HBC	H.
153	EQF	ICB	CB	HBC	CONC	HBC	H.
154	--	--	CB	--	--	--	
155	EQF	ICB	CB	HBC	CONC	HBC	H.
156	EQF	ICB	CB	HBC	CONC	HBC	H.
157	--	--	CB	--	--	--	
158	EQF	ICB	CB	HBC	CONC	HBC	H.
159	EQF	ICB	CB	HBC	CONC	HBC	H.
160	--	--	CB	--	--	--	
161	EQF	ICB	CB	HBC	CONC	HBC	H.
162	EQF	ICB	CB	HBC	CONC	HBC	H.
163	--	--	CB	--	--	--	
164	EQF	ICB	CB	HBC	CONC	HBC	H.
165	EQF	ICB	CB	HBC	CONC	HBC	H.
166	--	--	CB	--	--	--	
167	EQF	ICB	CB	HBC	CONC	HBC	H.
168	EQF	ICB	CB	HBC	CONC	HBC	H.
169	--	--	CB	--	--	--	
170	EQF	ICB	CB	HBC	CONC	HBC	H.
171	EQF	ICB	CB	HBC	GB	HBC	H.
172	EQF	ICB	CB	HBC	GB	HBC	H.
173	EQF	ICB	CB	HBC	GB	HBC	H.
174	EQF	ICB	CB	HBC	GB	HBC	H.

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ABBREVIATIONS:

AP	ACOUSTIC PANEL CEILING (T-BAR CEILING)
CPT	CARPET
CWT	CERAMIC WALL TILE
CB	CONCRETE BLOCK
CONC	CONCRETE
CRB	CUSTOM RUBBER BASE
EM	ENTRY MAT
EP	EPOXY PAINT
EQF	EPOXY QUARTZ FLOORING
EX	EXPOSED
GB	GYPSUM BOARD
HBC	HIGH BUILD COAT
ICB	INTEGRAL COVE BASE
LIN	LINOLEUM
MT	MOSAIC TILE
PT	PAINT
PFTB	PORCELAIN FLOOR TILE BASE
PFT	PORCELAIN FLOOR TILE
RB	RUBBER BASE
RF	RUBBER FLOOR
RSF	RUBBER SPORTS FLOOR
SV	SHEET VINYL
SS	STAINLESS STEEL
SD	STATIC DISSIPATIVE TILE
WP	WALL PROTECTION

LEGEND:

APPLIES TO THIS SHEET ONLY

- WALL PROTECTION TO 1200mm
- WALL TILE (REFER TO FINISH NOTE 7)
- BRUSHED STAINLESS STEEL CORNER GUARD TO 1200mm U.N.O.
- BRUSHED STAINLESS STEEL GUARD TO 1200mm. U.N.O.
- PT- INDICATES PAINT EXTENT
- R- INDICATES ROLLER BLIND EXTENT

Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	2017-04-28	SK-ACI
2	ISSUED FOR 95% REVIEW	2017-08-08	SK-ACI
3	ISSUED FOR TENDER	2017-09-12	SK-ACI

Seal

Client

Government of Canada / Gouvernement du Canada
Canada

Project

WABASCA / DESMARAIS
GOVERNMENT BUILDING

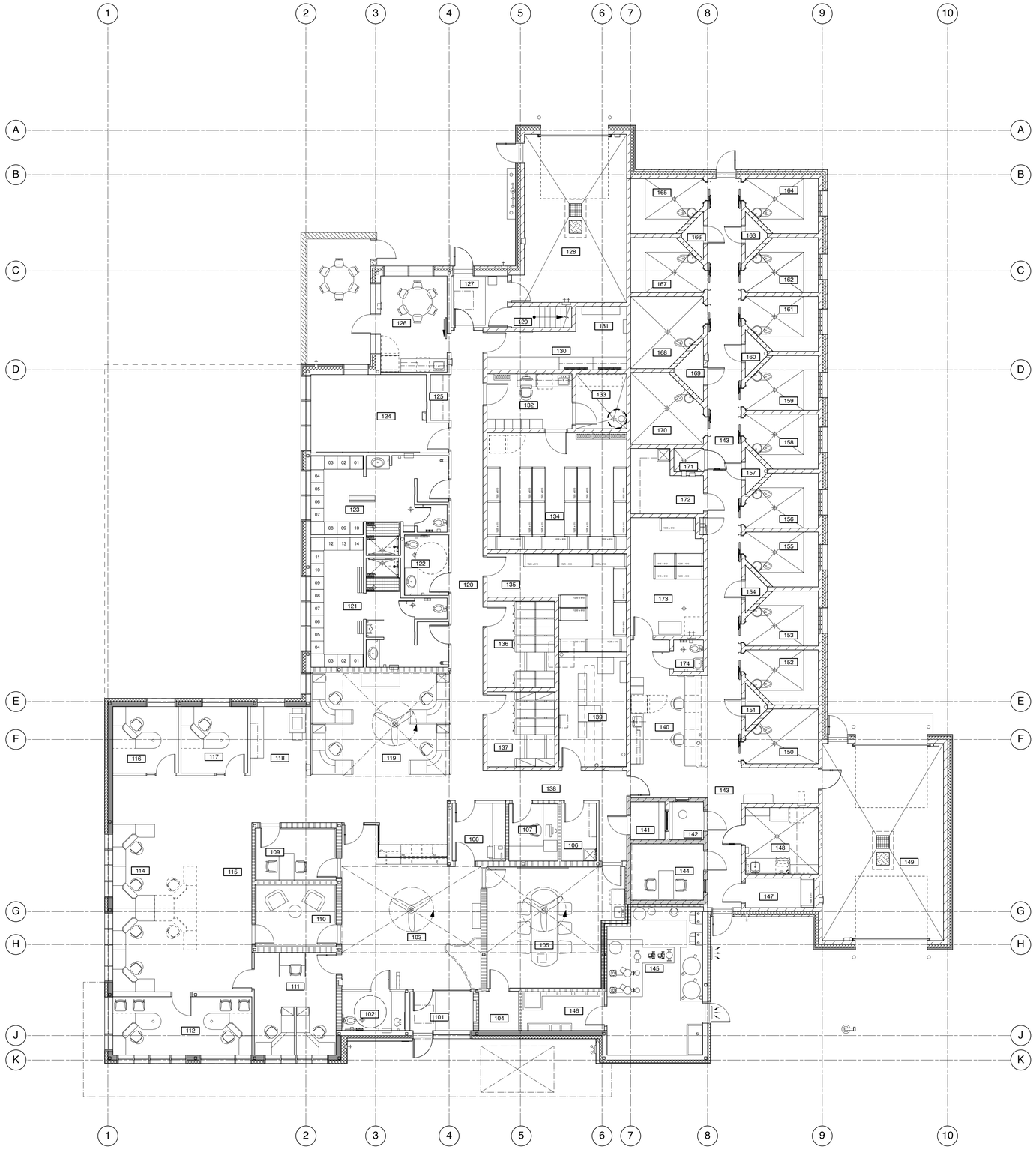
Scale	1:100	Designed By	LT/CH
Project No.	9031	Drawn By	CH
Date	SEPTEMBER 2017	Checked By	PLCB/LT

Drawing Title

FINISHES PLAN

Drawing No.

A10.1



1 A10.2 FURNITURE PLAN
Scale: 1:100

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GENERAL NOTE:

FURNITURE LAYOUT IS PROVIDED FOR OPTIONAL CONFIGURATION AND IS TO AID IN COORDINATING SERVICES WITHIN THE SPACES ONLY. FURNITURE IS NOT IN CONTRACT.

FOR INFORMATION ONLY

Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	2017-04-28	SK-ACI
2	ISSUED FOR 95% REVIEW	2017-08-08	SK-ACI
3	ISSUED FOR TENDER	2017-09-12	SK-ACI

Seal

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

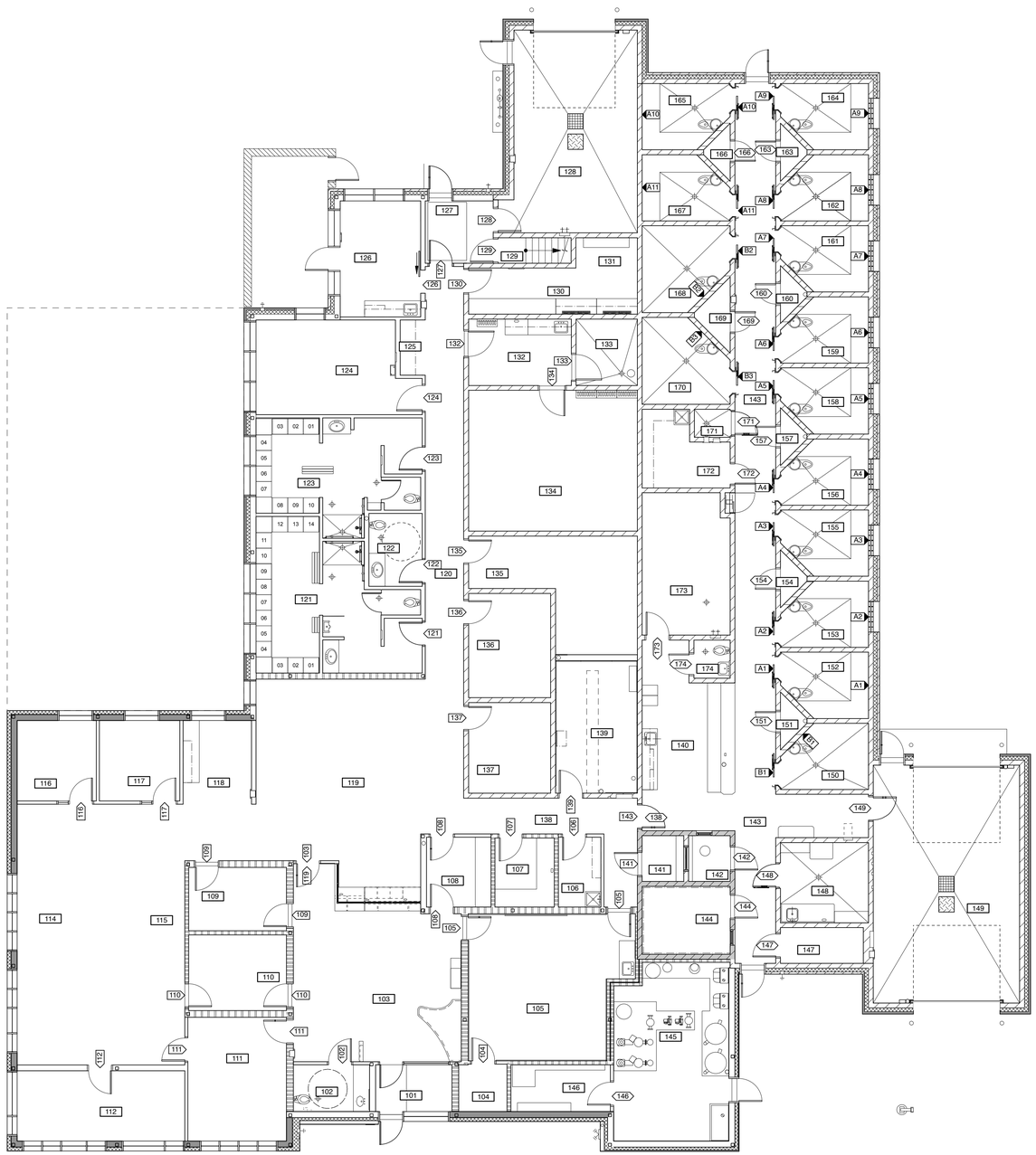
Scale	1:100	Designed By	LT
Project No.	9031	Drawn By	CH
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

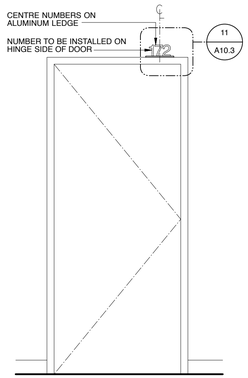
FURNITURE PLAN

Drawing No.

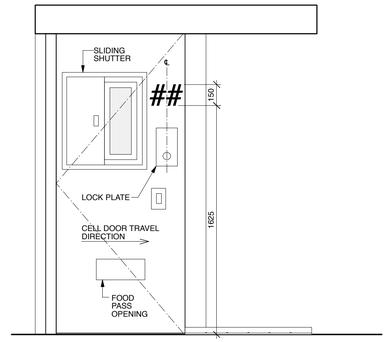
A10.2



1 A10.3 MAIN FLOOR PLAN
Scale: 1:100



2 A10.3 TYPICAL ROOM SIGNAGE
Scale: 1:20
NOTE: ALL ROOMS TO HAVE THIS SIGNAGE UNLESS NOTED OTHERWISE



3 A10.3 DETENTION DOOR ELEVATION - PAINT NUMBER
Scale: 1:20
NOTES:

FONT STYLE, SERIES AND NUMBERING IS TO MATCH RESPECTIVE CELL.

PROVIDE UP TO 3 CHARACTERS (AT OWNERS DISCRETION) PER DETENTION DOOR FOR DOOR NUMBERING

DOOR NUMBERING TO BE OVER LOCK PLATE ON CELL DOOR

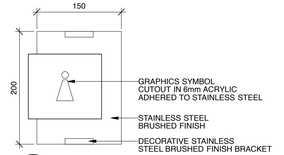
LETTER APPLICATION:

HIGH BUILD COATING FOR CHARACTERS 150mm HIGH HELVETICA FONT PLACED 1625 mm A.F.F. TO U/S OF LETTER, CENTRED ABOVE LOCK PLATE ON CELL DOOR. COLOUR TO BE CHARCOAL.

4 A10.3 HIGH BUILD COAT SIGNAGE
Scale: 1:10

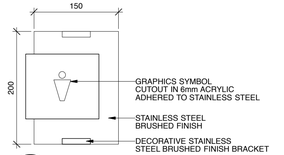
LEGEND:

- INDICATES ANODIZED ALUMINUM SIGNAGE
- INDICATES HIGH BUILT COAT SIGNAGE
- INDICATES BLACK LAMACOID

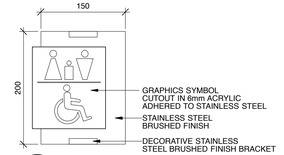


5 A10.3 WASHROOM SIGNAGE - WOMAN
Scale: 1:5
NOTE: MOUNT SIGN CENTERED ON DOOR AT 1500 A.F.F. AT ROOM 123

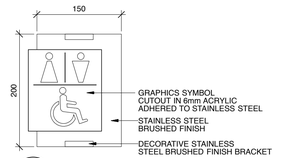
x



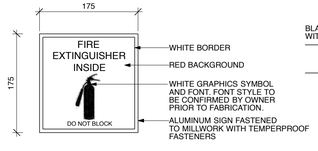
6 A10.3 WASHROOM SIGNAGE - MEN
Scale: 1:5
NOTE: MOUNT SIGN CENTERED ON DOOR AT 1500 A.F.F. AT ROOM 121



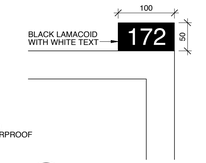
7 A10.3 WASHROOM SIGNAGE - B/F W/C
Scale: 1:5
NOTE: MOUNT SIGN CENTERED ON DOOR AT 1500 A.F.F. AT ROOM 102



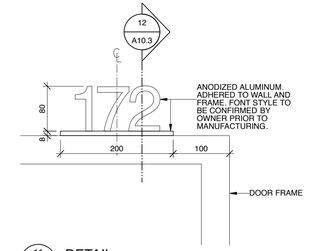
8 A10.3 WASHROOM SIGNAGE - B/F W/C
Scale: 1:5
NOTE: MOUNT SIGN CENTERED ON DOOR AT 1500 A.F.F. AT ROOM 122



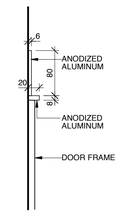
9 A10.3 FIRE EXTINGUISHER SIGNAGE
Scale: 1:5
NOTE: FLAT PROFILE



10 A10.3 DOOR LABEL DETAIL
Scale: 1:5



11 A10.3 DETAIL
Scale: 1:5



12 A10.3 SECTION DETAIL
Scale: 1:5

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

Notes:

- Do not scale drawing
- It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect or Engineer
- It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.
- All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the Architect or Engineer.
- All dimensions are in mm unless noted otherwise.

Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	2017-04-28	SK-ACI
2	ISSUED FOR 95% REVIEW	2017-08-08	SK-ACI
3	ISSUED FOR TENDER	2017-09-12	SK-ACI

Seal

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

Scale	1:100	Designed By	LT/PLCB
Project No.	9031	Drawn By	CH/KC
Date	SEPTEMBER 2017	Checked By	PLCB

Drawing Title

SIGNAGE DETAILS

Drawing No.

A10.3

GENERAL STRUCTURAL NOTES

1. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, LANDSCAPE, MECHANICAL AND ELECTRICAL DRAWINGS.
2. CHECK AND VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS BEFORE COMMENCING WITH WORK. NOTIFY PROTOSTATIX ENGINEERING CONSULTANTS (P.E.C.) OF ANY DISCREPANCIES, ERRORS OR OMISSIONS.
3. DRAWINGS SHOW COMPLETED STRUCTURE ONLY. TEMPORARY SUPPORT AND BRACING FOR CONSTRUCTION LOADING CONDITIONS IS THE RESPONSIBILITY OF THE CONTRACTOR.
4. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION".
5. READ THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.
6. GENERAL CONTRACTOR TO VERIFY AND MARK ALL UNDERGROUND LINES AND RE-ENSURE THAT NEW FOUNDATION LOCATIONS DO NOT INTERFERE WITH ANY UNDERGROUND UTILITY LINES.
7. VERIFY AND LOCATE ALL EXISTING FOUNDATIONS AND COORDINATE WITH THE LOCATIONS OF NEW FOUNDATIONS PRIOR TO COMMENCING WITH WORK.
8. ANY CLARIFICATIONS IN REGARDS TO STRUCTURAL DRAWINGS CONTACT THE ENGINEER ON RECORD.

SITE REVIEW

1. NOTIFY THE ENGINEER 48 HOURS IN ADVANCE FOR REVIEW OF THE FOLLOWING:

CONCRETE REINFORCEMENT	BEFORE EACH POUR
MASONRY REINFORCEMENT	BEFORE EACH GROUT POUR
STRUCTURAL STEEL	BEFORE COVERING UP
STEEL DECKING	BEFORE COVERING UP

P.E.C. PROVIDES FIELD REVIEW ONLY FOR THE WORK SHOWN ON THESE STRUCTURAL DRAWINGS. THIS REVIEW IS NOT A "FULL-TIME" REVIEW BUT IS A PERIODIC REVIEW AT THE SOLE DISCRETION OF P.E.C. IN ORDER TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE PLANS AND SUPPORTING DOCUMENTS PREPARED BY P.E.C. FIELD REVIEW BY P.E.C. IS NOT CARRIED OUT FOR THE CONTRACTOR'S BENEFIT. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO BUILD THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. P.E.C. SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACTOR DOCUMENTS.

P.E.C. WILL REVIEW SHOP DRAWINGS PERTAINING TO WORK SHOWN ON P.E.C.'S DRAWINGS. THE EXTENT OF THIS REVIEW IS AT THE SOLE DISCRETION OF P.E.C.'S ENGINEER AND IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMANCE WITH THE STRUCTURAL DESIGN CONCEPT. THE REVIEW IS NOT AN APPROVAL OF THE DESIGN, DETAILS AND DIMENSIONS INHERENT IN THE DESIGNS SUBMITTED BY OTHERS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWINGS OR FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.

DESIGN LOADS

UNLESS NOTED OTHERWISE LOADS NOTED BELOW ARE SPECIFIED LOADS. LOADS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL BUILDING CODE (NBC 2015)

1. LATERAL LOADS FROM WIND
   - WIND LOADS:

REFERENCE WIND PRESSURE (q 1/10)	0.28 kPa
REFERENCE WIND PRESSURE (q 1/50)	0.37 kPa
INTERNAL PRESSURE CATEGORY	2
ULS IMPORTANCE FACTOR	1.25 (POST-DISASTER)
SLS IMPORTANCE FACTOR	0.75 (POST-DISASTER)
WIND INTERSTOREY DRIFT LIMIT	H/500
(WHERE H IS THE HEIGHT OF THE STOREY)	

   - EARTHQUAKE LOADS:

Sa (0.2)	0.1
Sa (0.5)	0.06
Sa (1.0)	0.03
Sa (2.0)	0.01
PGA	0.04
ULS IMPORTANCE FACTOR	1.5 (POST-DISASTER)
Rd =	1.5
Ro =	1.3
SITE CLASSIFICATION CLASS C AS PER GEOTECHNICAL REPORT.	
Fa =	1.0
Fv =	1.0
SEISMIC DRIFT LIMIT	0.02 hs
(WHERE hs IS THE OVERALL HEIGHT OF THE STRUCTURE)	

   - LATERAL LOADS FROM WIND AND EARTHQUAKE ARE RESISTED BY STEEL BRACING. DIAPHRAGM ACTION OF THE ROOF AND THE FLOOR PLATES IS USED TO TRANSFER LATERAL LOADS HORIZONTALLY TO THE BRACING SYSTEM.

2. ROOF LOADS

DEAD LOAD	1.2 kPa
SNOW LOAD	
Ss	1.9 kPa
Sr	0.1 kPa
ULS IMPORTANCE FACTOR	1.25 (POST-DISASTER)
SLS IMPORTANCE FACTOR	0.9 (POST-DISASTER)
S	2.1 kPa + SNOW PILING (IMPORTANCE FACTOR INCLUDED)
RAIN	86mm (ONE DAY RAIN)

   OTHER LOADS:
   - SNOW PILING LOADS SEE DRAWING S5.3.
   - RAIN PONDING LOADS SEE DRAWING S5.3.
   - WIND UPLIFT LOADS SEE DRAWING S5.3.
   - TYPICAL ROOF TO BE DESIGNED FOR 1.5 kN CONCENTRATED LIVE LOAD.
   - ROOF JOISTS OVER MECHANICAL ROOMS TO BE DESIGNED FOR 4.5 kN CONCENTRATED LIVE LOAD.
   - ROOF JOIST ABOVE MECHANICAL ROOM TO BE DESIGNED FOR AN ADDITIONAL BOTTOM CHORD LIVE LOAD OF 0.5 kPa.
   - PAVERS 2.4 kPa. REFER TO ARCH. DRAWINGS FOR LOCATIONS.
   - MISCELLANEOUS LOADS SHOWN DIRECTLY ON THE PLANS.
   - WATER LINE LOADS SEE THIS DRAWING.

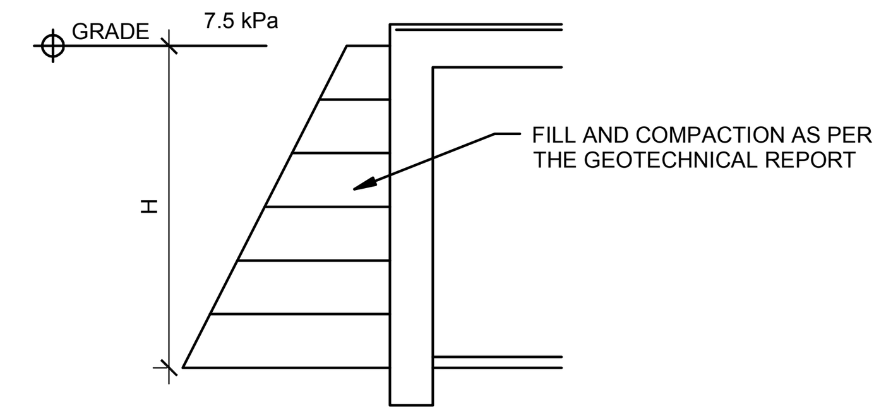
3. TEMPORARY CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN PARAMETERS AND SHALL NOT BE APPLIED BEFORE THE STRUCTURE HAS SUFFICIENT STRENGTH AND STABILITY.

NON-STRUCTURAL ELEMENTS

1. "NON STRUCTURAL" ELEMENTS OR "SECONDARY STRUCTURAL" ELEMENTS ARE NOT THE RESPONSIBILITY OF P.E.C. AND ARE TO BE DESIGNED BY OTHERS. A PROFESSIONAL ENGINEER'S SEAL MAY BE REQUIRED FOR SOME OR ALL SUCH ELEMENTS. "NON STRUCTURAL" ELEMENTS OR "SECONDARY STRUCTURAL" ELEMENTS, IF APPEARING ON P.E.C.'S DRAWINGS, ARE FOR INFORMATION AND / OR COORDINATION ONLY. DESIGN ALL "NON STRUCTURAL" ELEMENTS OR "SECONDARY STRUCTURAL" ELEMENTS IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS).
2. EXAMPLES OF NONSTRUCTURAL ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO:
   - A. ARCHITECTURAL COMPONENTS SUCH AS GUARDRAILS, HANDRAILS, FLAG POSTS, AWNINGS, CEILINGS, MILLWORK ETC.
   - B. LANDSCAPE ELEMENTS SUCH AS BENCHES, LIGHT POSTS, PLANTERS, ETC.
   - C. CLADDING, GLAZING, WINDOW MULLIONS, PARTITION WALLS.
   - D. ARCHITECTURAL PRECAST, PRECAST CLADDING.
   - E. MECHANICAL AND ELECTRICAL EQUIPMENT, COMPONENTS AND THEIR ATTACHMENT DETAILS.
   - F. WINDOW WASHING EQUIPMENT AND THEIR ATTACHMENTS.
   - G. BRICK OR BLOCK VENEERS AND THEIR ATTACHMENTS.
   - H. NON STRUCTURAL CONCRETE TOPPINGS.
3. SHOP DRAWINGS FOR NON STRUCTURAL ELEMENTS WHICH MAY AFFECT THE PRIMARY STRUCTURAL SYSTEM SHALL BE SUBMITTED TO P.E.C. THESE DRAWINGS WILL BE REVIEWED ONLY FOR THE EFFECT OF THE ELEMENT ON THE PRIMARY STRUCTURAL SYSTEM.
4. PERIMETER STEEL FRAMING HAS BEEN DESIGNED TO L/240 TOTAL LOAD DEFLECTION - U.N.O.
5. ROOF BEAMS AND JOISTS HAVE BEEN DESIGNED TO L/240 TOTAL LOAD DEFLECTION - U.N.O.
6. EXPECTED SLAB ON GRADE MOVEMENT TO BE +/- 25mm. CONFIRM WITH GEOTECHNICAL REPORT.

GEOTECHNICAL NOTES

1. GEOTECHNICAL REPORT BY THURBER ENGINEERING LTD HAS BEEN PREPARED FOR THE PROJECT. THE REPORT IS DATED NOVEMBER 29th 2016 AND TITLED "RCMP DETACHMENT BUILDING LOT B, BLOCK 15, PLAN 972-3974, WABASCA-DESMARAIS, ALBERTA, GEOTECHNICAL INVESTIGATION" AND SUPPLEMENTAL ADDENDUM #1, DATED FEB. 21, 2017.
2. REFER TO FOUNDATION PLAN FOR ADDITIONAL NOTES REGARDING THE APPLICABLE FOUNDATION SYSTEM.
3. LATERAL SOIL PRESSURE ON WALLS INCLUDING SURCHARGE SHALL BE AS FOLLOWS. UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT.
4. ALL BACKFILL MATERIALS AND BACKFILL INSTALLATION SHALL BE REVIEWED BY A GEOTECHNICAL ENGINEER TO ENSURE COMPLIANCE WITH THE RECOMMENDATIONS AS NOTED IN THE GEOTECHNICAL REPORT.
5. EXCAVATION REQUIREMENTS SHALL BE REVIEWED AND APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH WORK.
6. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DAMP PROOFING OR WATER STOP REQUIREMENTS.
7. FOR GROUND ELEVATIONS AND DRAINAGE SLOPES, SEE CIVIL DRAWINGS.



0.6 x (19.6 kN/m³ x H + 12.0 kPa)

(PILES) FOUNDATION

1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT AND ADDENDUM STATED ABOVE. REFER TO THE REPORT FOR ANY PARTICULARS AS TO SOIL CONDITION AND FOUNDATION RECOMMENDATIONS.
2. ENSURE THAT THE REQUIREMENTS OUTLINED IN THE GEOTECHNICAL REPORT ARE READ AND UNDERSTOOD PRIOR TO COMMENCING WITH FOUNDATION WORK.
3. CONCRETE CAST-IN PLACE SKIN FRICITION PILES HAVE BEEN DESIGNED ON THE BASIS OF THE FOLLOWING CAPACITIES:

DEPTH BELOW GRADE	SKIN FRICTION (FACTORED)
0-1.5 m	0 kPa
BELOW 1.5 m	14 kPa

4. CONCRETE CAST IN PLACE END BEARING PILES HAVE BEEN DESIGNED ON THE BASIS OF A FACTORED END BEARING CAPACITY OF 400 kPa IN THE BEARING STRATUM RECOMMENDED IN THE GEOTECHNICAL REPORT.
5. PRIOR TO PLACING CONCRETE FOR PILE FOUNDATIONS, BEARING STRATA FOR PILES SHALL BE INSPECTED BY A GEOTECHNICAL CONSULTANT TO CONFIRM THEIR LOAD CARRYING CAPACITY IN WRITING PRIOR TO COMMENCING WITH WORK. P.E.C. IS NOT RESPONSIBLE FOR CONFIRMING FOUNDATION CAPACITIES OF SOIL.
6. PILE LENGTHS SHOWN ARE NOT FINAL AND MAY VARY ACCORDING TO SITE CONDITIONS. LENGTH OF PILE SHALL BE AT THE DISCRETION OF THE GEOTECHNICAL CONSULTANT. EXTEND ALL PILES TO A BEARING LAYER APPROVED BY THE GEOTECHNICAL ENGINEER. INFORM P.E.C. OF ALL SUCH CASES PRIOR TO CONSTRUCTION.
7. TIE ALL DOWELS AND ANCHOR BOLTS IN PLACE BEFORE POURING CONCRETE USE TEMPLATES TO ENSURE CORRECT PLACEMENT. NO WET SETTING ALLOWED.
8. PILES SHALL BE PLACED WITH THE FOLLOWING TOLERANCES:
   - NOT MORE THAN 2% OF ITS LENGTH OUT OF PLUMB VERTICALLY.
   - NOT MORE THAN 50mm OFF CENTER AT THE TOP.
9. PROVIDE CASING AS REQUIRED.
10. PROVIDE A SEPARATE PRICE FOR FULL CASING OF ALL PILES.
11. PROVIDE A UNIT RATE FOR CASING OF ALL PILE DIAMETERS SHOWN ON DRAWINGS.
12. FOR ADDITIONAL NOTES AND REQUIREMENTS SEE SPECIFICATIONS.
13. EXTEND PILE REINFORCEMENT FOR FULL LENGTH OF PILE.
14. VERIFY AND MARK ALL UNDERGROUND LINES AND RE-ENSURE THAT NEW PILES DO NOT INTERFERE WITH ANY UNDERGROUND UTILITY LINES.
15. VERIFY AND LOCATE ALL EXISTING FOUNDATIONS AND COORDINATE WITH THE LOCATIONS OF NEW FOUNDATIONS PRIOR TO COMMENCING WITH WORK.

SHORING OF EXCAVATIONS

1. SHORING IS NOT UNDER P.E.C.'S SCOPE OF WORK AND SHALL BE DESIGNED BY OTHERS.
2. DESIGN SHALL BE BASED ON THE CRITERIA RECOMMENDED IN THE SOILS REPORT AND SHALL BE TO CITY STANDARDS OR THE APPLICABLE GOVERNING AUTHORITY.
3. WHERE REQUIRED, SHORING CONTRACTOR TO OBTAIN ALL NECESSARY APPROVALS FOR INSTALLATION OF TIE-BACK ANCHORS OUTSIDE THE INDICATED PROPERTY LINE. CONTRACTOR SHALL ESTABLISH THE LOCATION AND EXTENT TO UNDERGROUND UTILITY LINES WHERE INTERFERENCE WITH EXCAVATION / SHORING OPERATIONS ARE POSSIBLE TO OCCUR.
4. EXAMINE THE SITE PLAN FOR EXISTING GRADE ELEVATIONS. CONTRACTOR TO DETERMINE EXTENT OF SHORING REQUIRED AND SURCHARGE REQUIREMENTS FROM SITE CONDITIONS. DESIGN FOR A MINIMUM OF 200 psf (9.6 kPa) SURCHARGE.
5. SOLDIER PILE LOCATIONS TO BE REVIEWED FOR MINIMUM INTERFERENCE TO COLUMNS, WALLS AND REINFORCEMENT. MAKE PROVISIONS IN ALL EMBEDDED PLATES TO ALLOW FOR THE CONTINUITY OF WALL REINFORCING.

CONCRETE

1. CONCRETE TO CONFORM TO THE NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS) BEING NORMAL WEIGHT MEETING THE FOLLOWING REQUIREMENTS / THE REQUIREMENTS IN THE SPECIFICATIONS.
2. ADMIXTURES CONTAINING CALCIUM CHLORIDE ARE NOT PERMITTED.
3. SUPERPLASTICIZING ADMIXTURE IS PERMITTED TO ALLOW PUMPING OR IMPROVE SURFACE FINISHING OF CONCRETE. SUPERPLASTICIZING TO BE IN STRICT ACCORDANCE WITH THE CONCRETE SUPPLIER'S RECOMMENDATIONS.
4. FOR FLOOR SLABS, DESIGN THE CONCRETE MIXTURE WITH AGGREGATE GRADING AND WATER TO CEMENTING MATERIALS RATIO THAT MINIMIZES SHRINKAGE.
5. REJECT ALL CONCRETE WHEN TIME BETWEEN BATCHING AND PLACING EXCEEDS TWO HOURS.
6. DO NOT ADD WATER TO THE CONCRETE ON SITE UNLESS AUTHORIZED BY THE CONCRETE SUPPLIER.
7. PROTECT CONCRETE FROM ADVERSE WEATHER CONDITIONS IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS).
8. FOR ADDITIONAL NOTES AND REQUIREMENTS SEE SPECIFICATIONS.

CONCRETE FORMWORK

FORM WORK TO CONFORM TO THE NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS).

1. REFER TO ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR CHAMFERS ON CORNERS OF COLUMNS, BEAMS AND WALLS. USE 3/4" x 3/4" FORMED CHAMFERS ON EXPOSED CORNERS UNLESS OTHERWISE SHOWN ON DRAWINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. VOID FORM MATERIALS SHALL BE DYNAVOID (40144) OR EQUIVALENT.
3. REBAR SHALL BE FREE OF RESIDUAL CEMENT PASTE AND FORM OIL.
4. FOR ADDITIONAL NOTES AND REQUIREMENTS SEE SPECIFICATIONS.

REINFORCEMENT FOR CONCRETE

1. REINFORCED CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS).
2. REINFORCING STEEL: BILLET-STEEL CONFORMING TO THE NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS). ALL REINFORCING SHALL BE GRADE 400. USE GRADE 400W WHERE WELDING IS NOTED.
3. BENDING, CUTTING AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS).
4. WELDING SHALL CONFORM TO THE NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS).
5. MINIMUM REINFORCEMENT AS PER THE MINIMUM REQUIREMENTS NOTED BELOW.
6. REBAR SHALL BE FREE OF RESIDUAL CEMENT PASTE AND FORM OIL.
7. REINFORCED CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS).
8. CONCRETE COVER TO REINFORCING STEEL SHALL CONFORM TO THE APPLICABLE REQUIREMENTS LISTED BELOW THAT RESULTS IN THE GREATER AMOUNT OF COVER.
9. SUBMIT TO P.E.C FOR REVIEW THE LOCATION OF ALL CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS.
10. VERTICAL CONTROL JOINTS IN PERIMETER CONCRETE WALLS SHALL BE SPACED AT NO MORE THAN 5400mm O/C.
11. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE MADE IN BEAMS UNLESS SHOWN ON THE DRAWINGS.
12. SUBMIT TO P.E.C FOR REVIEW THE LOCATIONS OF ALL SLEEVES AND OPENINGS NOT SHOWN ON THE DRAWINGS. P.E.C. WILL PROVIDE STRUCTURAL DETAILS UPON REQUEST.
13. SLEEVES SHALL NOT BE PLACED HORIZONTALLY ALONG OR VERTICALLY THROUGH BEAMS UNLESS AUTHORIZED BY P.E.C.

MINIMUM REQUIREMENTS
UNLESS OTHERWISE NOTED ON DRAWINGS

BAR EMBEDMENT AND LAP SPLICE TABLE

BAR SIZE	TENSION		COMPRESSION	
	EMBEDMENT LENGTH	LAP SPLICE LENGTH	EMBEDMENT LENGTH	LAP SPLICE LENGTH
10M	400mm	500mm	200mm	300mm
15M	600mm	750mm	300mm	450mm
20M	750mm	1000mm	400mm	600mm
25M	1200mm	1550mm	500mm	750mm
30M	1450mm	1850mm	600mm	900mm
35M	1500mm	2150mm	700mm	1050mm

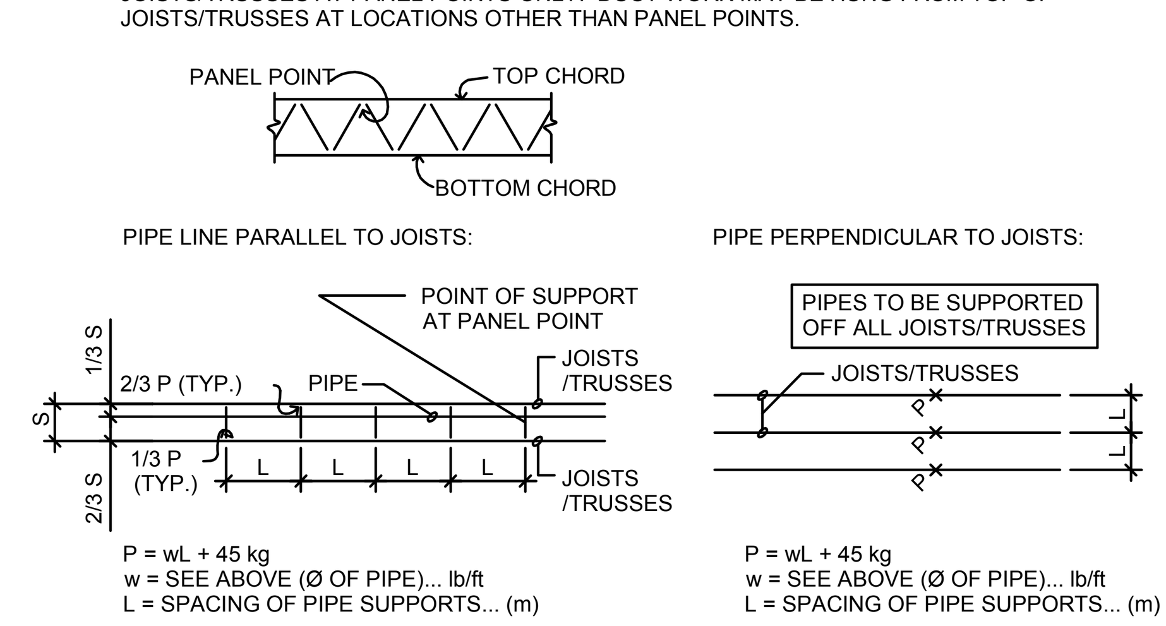
TABLE NOTES:
1. BASED ON NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS).
2. NORMAL DENSITY CONCRETE OF STRENGTH AT LEAST 25 MPa.
3. ENCLOSED BY MINIMUM STIRRUPS OR TIES.
4. CLEAR COVER AT LEAST 1.0 X BAR DIAMETER.
5. CLEAR SPACING AT LEAST 1.4 X BAR DIAMETER.
6. INCREASE LENGTHS TO 1.31 X LENGTH LISTED FOR EPOXY COATED REINFORCING.

TYPICAL WATER LINE LOADING DETAILS

- FOR WATER PIPE AND / OR SPRINKLER LINE LOCATION, SEE MECHANICAL DRAWINGS.
- ALL SUPPORTING JOISTS/TRUSSES SHALL BE DESIGNED TO WITHSTAND WATER FILLED PIPES.
- PIPE LOADS 'W' AS SHOWN ARE IN ADDITION TO THE BASIC SPECIFIED DESIGN LOADS.

SMALLER THAN 50mm.......IGNORE
50mm Ø PIPE......................w = 11.00 kg/m
76mm Ø PIPE......................w = 17.00 kg/m
100mm Ø PIPE....................w = 24.00 kg/m
130mm Ø PIPE....................w = 36.00 kg/m   PLUS 45 kg
150mm Ø PIPE....................w = 47.00 kg/m   AT THE POINT OF HANGING
200mm Ø PIPE....................w = 75.00 kg/m
LARGER THAN 8"......................NOT PERMITTED

ALL MECHANICAL PIPES 50mm OR LARGER SHALL BE HUNG FROM THE TOP CHORD OF JOISTS/TRUSSES AT PANEL POINTS ONLY. DUCT WORK MAY BE HUNG FROM TOP OF JOISTS/TRUSSES AT LOCATIONS OTHER THAN PANEL POINTS.



- PIPES ARE NOT PERMITTED TO BE SUPPORTED OFF BOTTOM CHORD OF TRUSSES/JOISTS.

STRUCTURAL STEEL

1. DESIGN, FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS).
2. STRUCTURAL STEEL TO CONFORM TO CAN/CSA G40.20/G40.21 WITH MINIMUM GRADE AS FOLLOWS:
   - ROLLED STEEL SECTIONS TO GRADE 350W
   - ANCHOR BOLTS: TO ASTM A307.
   - BOLTS, NUTS, AND WASHERS: HIGH STRENGTH TYPE RECOMMENDED FOR STRUCTURAL STEEL JOINTS, CONFORMING TO REQUIREMENTS OF ASTM A325M, MEDIUM-CARBON STEEL, U.N.O. ON DRAWINGS.
   - WELDING MATERIALS: CSA W59
   - PLATES,RODS AND ANGLES: GRADE 300W
   - HSS SECTIONS: GRADE 350W
3. DESIGN CONNECTIONS IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS). UNLESS NOTED OTHERWISE, DESIGN ALL CONNECTIONS FOR NON-COMPOSITE BEAMS FOR 50% OF THE SHEAR RESISTANCE TABULATED IN THE LATEST EDITION OF THE CISC HANDBOOK OF STEEL CONSTRUCTION. DESIGN CONNECTIONS DESIGNATED FOR BEAM SIZES AND SPANS SHOWN ON DRAWINGS. USE A MINIMUM OF 3-19mm Ø BOLTS IN EACH BOLTED CONNECTIONS. LOCALIZE HSS REINFORCEMENT IF REQUIRED DUE TO CONNECTION. TYPE SHALL BE THE RESPONSIBILITY OF THE STRUCTURAL STEEL SUPPLIER.
4. WELDING SHALL CONFORM TO THE NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS) AND BE DONE WITH MATCHING ELECTRODES.
5. GROUT UNDER COLUMN SHALL BE NON-SHRINK, NON-STAIN AND PLACED IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS. THE MINIMUM COMPRESSIVE STRENGTH OF GROUT SHALL BE 30 MPa AT 7 DAYS.
6. PROVIDE 10mm CAP PLATES ON TOP OF ALL HSS COLUMNS UNLESS NOTED OTHERWISE.
7. ALL HEADERS TO COME WITH 10mm CAP PLATES AND TO BE WELDED ALL AROUND TO STEEL SUPPORTS ON EACH END.
8. FRAME OPENINGS IN STEEL DECK GREATER THAN 450mm WITH C100x9 ALL AROUND UNLESS NOTED OTHERWISE ON DRAWINGS. SEE TYPICAL DETAIL.
9. PROVIDE C200x17 FRAMING UNDER ALL ROOF TOP UNITS UNLESS NOTED OTHERWISE ON DRAWINGS. SEE TYPICAL DETAIL.
10. STEEL PRIMER AS PER SPECIFICATIONS.
11. SUBMIT APPROPRIATE NUMBER OF SHOP DRAWINGS TO P.E.C. PRIOR TO FABRICATION. SHOW ALL DETAILS, INCLUDING FIELD WELDS, AND MATERIAL SPECIFICATIONS. SHOP DRAWINGS TO BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS.
12. ALLOW FOR MATERIALS AND WORKMANSHIP TESTING BY AN INDEPENDENT INSPECTION AND TESTING FIRM AS PER THE SPECIFICATIONS.
13. ALL COLUMNS (INCLUDING, BUT NOT LIMITED TO HSS AND W SECTIONS) TO BE WELDED ALL AROUND TO BASE PLATES. MINIMUM 6mm WELD THICKNESS.
14. WELDERS' CERTIFICATES: ORGANIZATION CERTIFIED BY THE CANADIAN WELDING BUREAU IN ACCORDANCE WITH CSA W47.1.
15. INSPECTION CERTIFICATES: ORGANIZATION FULLY APPROVED BY THE CANADIAN WELDING BUREAU IN ACCORDANCE WITH CSA W178.1.
16. DESIGN CONNECTIONS AND ERECTION PROCEDURES NOT DETAILED ON THE DRAWINGS UNDER DIRECT SUPERVISION OF A PROFESSIONAL STRUCTURAL ENGINEER EXPERIENCED IN DESIGN OF THIS WORK AND LICENSED AT THE PLACE WHERE THE PROJECT IS LOCATED.
17. FOR ADDITIONAL NOTES AND REQUIREMENTS SEE SPECIFICATIONS.
18. ALL BRICK SUPPORT STEEL ANGLES, EMBED. PLATES AND SPACERS TO BE GALVANIZED.

STEEL JOISTS - OPEN WEB

1. STEEL JOISTS SHALL BE DESIGNED AND FABRICATED BY THE JOIST SUPPLIER IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS) FOR THE LOADS INDICATED UNDER "DESIGN LOADS".
2. CAMBER REQUIREMENTS TO NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS) UNLESS NOTED ON DRAWINGS. CAMBER JOISTS FOR DEAD LOAD.
3. UNLESS NOTED OTHERWISE ON DRAWINGS LIMIT JOIST ROOF TOTAL LOAD DEFLECTION TO L/240 AND LIVE LOAD DEFLECTION TO L/360.
4. UNLESS NOTED OTHERWISE LIMIT JOIST FLOOR TOTAL LOAD DEFLECTION TO L/360 AND LIVE LOAD DEFLECTION TO L/480.
5. WELD SEAT CONNECTIONS WITH 6mm WELD MIN CONTINUOUS ALL AROUND.
6. EXTEND BOTTOM CHORDS TO COLUMN OR BEAM FLANGE WHERE INDICATED ON FRAMING PLAN. DESIGN CHORD EXTENSIONS FOR 10 kN FACTORED COMPRESSION.
7. PROVIDE CROSS BRIDGING IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS).
8. PRIMER AS PER SPECIFICATIONS.
9. SUBMIT APPROPRIATE NUMBER OF SHOP DRAWINGS TO P.E.C. PRIOR TO FABRICATION. SHOP DRAWINGS TO BE SEALED BY THE PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA RESPONSIBLE FOR THE DESIGN AND FABRICATION OF ALL STEEL JOISTS.
10. FOR TESTING REQUIREMENTS SEE NOTES UNDER STRUCTURAL STEEL SECTION.
11. FOR ADDITIONAL NOTES AND REQUIREMENTS SEE SPECIFICATIONS.
12. SLOTTED HOLES AT JOIST TO BEAM CONNECTIONS ARE NOT PERMITTED.

STEEL DECK

1. STEEL DECK TO BE 38mm U.N.O. ON DRAWINGS. STEEL DECK SHALL BE DESIGNED AND INSTALLED BY THE DECK SUPPLIER IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS) AND FOR THE LOADS INDICATED UNDER "DESIGN LOADS". MINIMUM THICKNESS=0.91 (20 ga.). INCREASE GAUGE AS REQUIRED TO MEET LOADING CRITERIA.
2. UNLESS NOTED OTHERWISE ON DRAWINGS LIMIT DECK ROOF TOTAL LOAD DEFLECTION TO L/240 AND LIVE LOAD DEFLECTION TO L/360.
3. UNLESS NOTED OTHERWISE LIMIT DECK FLOOR TOTAL LOAD DEFLECTION TO L/360 AND LIVE LOAD DEFLECTION TO L/480.
4. DECK SUPPLIER SHALL COORDINATE METHOD OF ATTACHMENT FOR DUCT, CEILING, AND CONDUIT HANGERS WITH APPROPRIATE SUBTRADES.
5. DECK COATING AS PER SPECIFICATIONS.
6. PROVIDE DRAIN HOLES AT 1200mm O/C. OR AS REQUIRED TO PREVENT RAINWATER ACCUMULATION DURING INSTALLATION.
7. INSTALL DECKING CONTINUOUS OVER MINIMUM THREE SPANS WHERE POSSIBLE.
8. WELD DECK TO SUPPORTING STEEL WITH 19mmØ FUSION WELDS. FASTEN SIDE LAPS BY BUTTON PUNCHING AT 600mm MAX. SPACING. WELD EACH SIDE OF SIDE-LAP AT SUPPORTS. MAXIMUM SPACING OF 150mm AT PERIMETER AND 300mm AT INTERIOR SUPPORTS.
9. PAINT ALL WELDS WITH ZINC RICH PAINT.
10. CUT AND FRAME OPENINGS AS SHOWN ON THE TYPICAL FLOOR & ROOF OPENING FRAMING DETAILS ON THE TYPICAL DETAILS.
11. SUBMIT APPROPRIATE NUMBER OF SHOP DRAWINGS TO P.E.C. PRIOR TO FABRICATION. SHOW ALL DETAILS, MATERIAL SPECIFICATION AND DESIGN LOADS. SHOP DRAWINGS TO BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA RESPONSIBLE FOR THE DESIGN OF THE STEEL DECK.
12. ADDITIONAL NOTES AND REQUIREMENTS SEE SPECIFICATION.

METAL STUD

1. STEEL STUDS SHALL BE DESIGNED AND INSTALLED BY STEEL STUD SUPPLIER IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS) FOR THE LOADS INDICATED UNDER "DESIGN LOADS" AND SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS: 150mm STUDS, 18ga. MIN, SPACED @ 400mm O/C. INCREASE GAUGE OR DECREASE SPACING IF NECESSARY TO ACHIEVE CAPACITY UNDER "DESIGN LOADS". SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. STEEL STUDS ERECTED C/W BRACING CHANNEL SPACED AT NO MORE THAN 1200mm O/C VERTICAL.
3. METAL STUD INSTALLER SHALL CUT HOLES THROUGH WEB AND FLANGES OF METAL STUDS SUFFICIENT FOR BRACING ROD TO PASS THROUGH. METAL STUD INSTALLER SHALL PROVIDE STRENGTHENING OF CUT-OUT METAL STUD FLANGES AND WEB BACK TO AT LEAST THE SAME SHEAR AND MOMENT CAPACITY OF THE ORIGINAL METAL STUDS.
4. SUBMIT APPROPRIATE NUMBER OF SHOP DRAWINGS TO P.E.C. FOR ALL METAL STUD WALLS AND THEIR CONNECTIONS PRIOR TO FABRICATION. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA RESPONSIBLE FOR THE DESIGN OF THE STEEL STUDS AND THEIR CONNECTIONS.
5. FOR NON-LOAD BEARING GRAVITY STUDS, PROVIDE DEFLECTION TRACKS TO ALL STEEL STUD WALLS UNLESS NOTED OTHERWISE.

MASONRY

1. MASONRY UNITS TO BE LIGHTWEIGHT CONCRETE MASONRY CONFORMING TO CSA A165: H/15/C/M UNLESS NOTED OTHERWISE IN MASONRY SPECS.
2. MORTAR SHALL BE TYPE "S".
3. PORTLAND CEMENT TO CONFORM TO NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS).
4. GROUT TO BE COARSE (20MPa) AND CONFORM TO NATIONAL BUILDING CODE 2015 AND STANDARDS (AS NOTED IN THE PROJECT SPECIFICATIONS).
5. JOINT REINFORCING SHALL BE CONTINUOUS EVERY 400mm HORIZONTAL. USE STANDARD 9ga. SIDE RODS AND 9 ga. CROSS TIES MILL GALVANIZED WIRE. LAP JOINT REINFORCEMENT 150mm AT ALL SPLICES.
6. UNLESS NOTE OTHERWISE PROVIDE CONTROL JOINTS AT 9800mm MAX. BOND BEAMS, LINTELS AND HORIZONTAL WALL REINFORCEMENT TO BE CONTINUOUS.
7. MINIMUM REQUIREMENTS:
   UNLESS NOTED OTHERWISE ON DRAWINGS PROVIDE THE FOLLOWING MINIMUM REINFORCEMENT TO MASONRY WALLS (INCLUDING NON-LOAD BEARING WALLS):

WALL MINIMUM SIZE:	200mm
WALL MIN. VERTICAL REINFORCEMENT:	15M @ 600mm VERT.
WALL MIN. BOND BEAMS:	ONE BOND BEAM AT TOP OF WALL R/W 2-15M CONT
WALL MIN. DOWELS TO FOUNDATION OR SLAB:	15M @ 600mm x 1200mm Lg.
WALL OPENINGS (U.N.O.):	PROVIDE 200x400 LINTEL ABOVE ALL OPENINGS NO MORE THAN 1200mm WIDE R/W 2-15M T.&B. AND 10M @ 200mm SINGLE LEG STIRRUPS. PROVIDE 1-15M VERTICAL REINFORCEMENT TO TOP OF WALL EACH SIDE OF OPENING. SEE TYP. DETAILS FOR ADDITIONAL INFORMATION.

8. ALL REINFORCED CORES TO BE SOLID GROUTED.
9. THE USE OF RUNNING BOND OR STACK BOND TO BE CONFIRMED WITH THE ARCHITECTURAL DRAWINGS
10. LATERAL SUPPORT REQUIRED ON TOP OF ALL MASONRY WALLS. SEE DRAWINGS.
11. NO CONDUIT, ELECTRICAL BOXES, RECESSED FIRE EXTINGUISHERS OR ANY OTHER RECESSED APPLIANCE ALLOWED IN MASONRY COLUMNS.
12 ADDITIONAL NOTES AND REQUIREMENTS SEE SPECIFICATIONS.

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

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-
- All dimensions are in mm unless noted otherwise.

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Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	APRIL 27, 2017	KM
2	ISSUED FOR PROGRESS	JUNE 15, 2017	KM
3	ISSUED FOR 95% REVIEW	AUGUST 8, 2017	KM
4	ISSUED FOR TENDER	SEPT. 12, 2017	KM

Seal

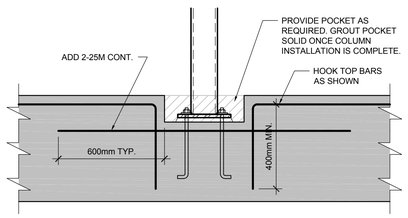
Client
Government of Canada Gouvernement du Canada
Canada

Project
WABASCA / DESMARAIS GOVERNMENT BUILDING

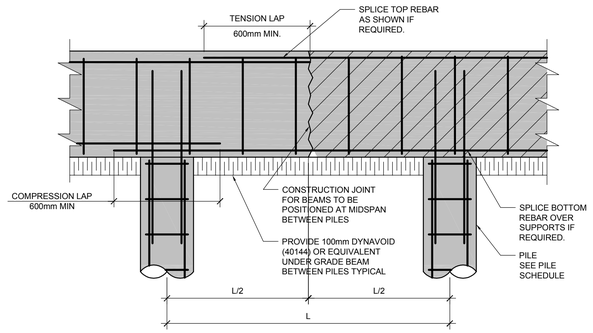
Scale	AS SHOWN	Designed By	HL/LADM
Project No.	16-4314	Drawn By	KM
Date	SEPT. 12, 2017	Checked By	LADM

Drawing Title
GENERAL NOTES

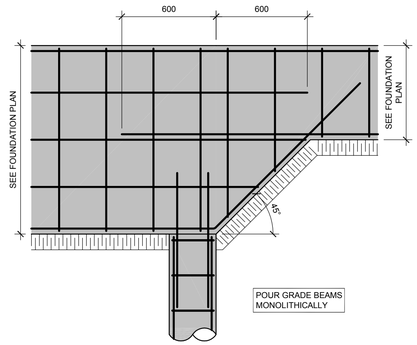
Drawing No.
S1.1



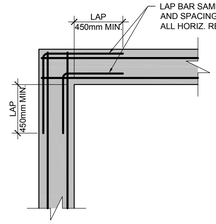
TYPICAL GRADE BEAM RECESS DETAIL



TYPICAL GRADE BEAM SPLICE DETAIL

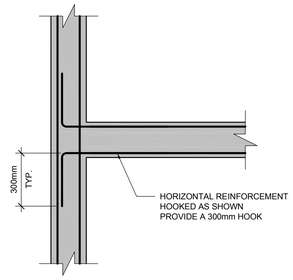


TYPICAL CONNECTION DETAIL AT GRADE BEAMS WITH DIFFERENT DEPTHS

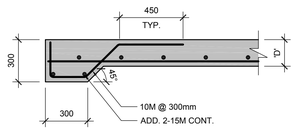


TYPICAL LAPPING AT CORNERS

-TYPICAL WALLS AND GRADE BEAMS

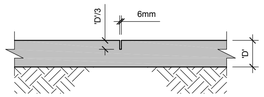


TYPICAL CORNER BARS AT INTERSECTING WALLS AND GRADE BEAMS



'D' = DEPTH OF SLAB

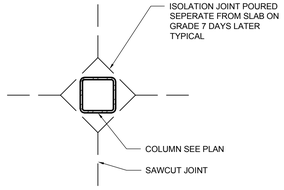
TYPICAL CONCRETE SLAB THICKENING



'D' = DEPTH OF SLAB

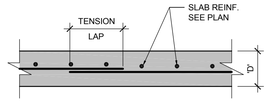
- SLAB REINFORCEMENT NOT SHOWN FOR CLARITY
- PROVIDE WATER PROOF SEALER
- SPACING OF CONTROL JOINTS NOT TO EXCEED:
  - 2400 - 3000 FOR 100mm THICK SLABS
  - 3000 - 4000 FOR 130mm THICK SLABS
  - 3600 - 4600 FOR 150mm THICK SLABS
  - 4600 - 6000 FOR 200mm THICK SLABS
- NO SAWCUTS IN STRUCTURAL SLABS TYPICAL.

TYPICAL SAWCUT FOR CONCRETE SLAB ON GRADE



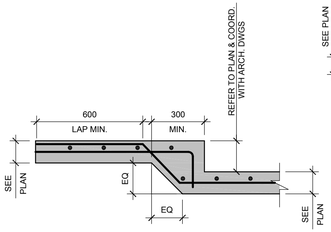
SLAB ON GRADE ONLY

DIAMOND CUT - ISOLATION JOINT

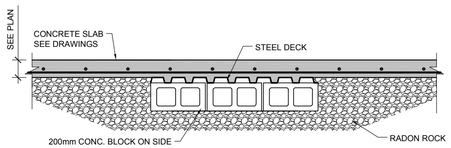


'D' = DEPTH OF SLAB

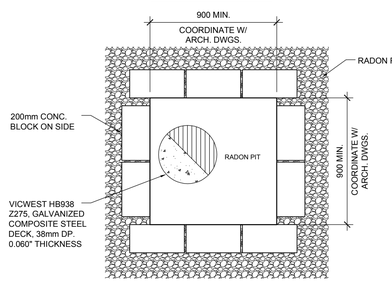
TYPICAL REINFORCEMENT LAP IN SLAB ON GRADE UNLESS NOTED OTHERWISE



TYPICAL SLAB RECESS DETAIL



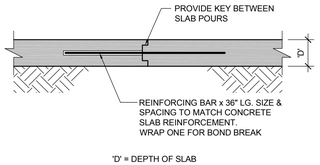
SECTION VIEW



PLAN VIEW

TYPICAL RADON PIT DETAIL

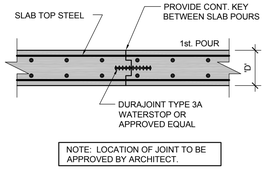
1. COORDINATE LOCATION TO AVOID HIGHLY LOADED AREAS (EG. RACKING, HIGH TRAFFIC ZONES, POINT LOADS)
2. SEE ARCH. DWGS. FOR NUMBER, EXTENT AND LOCATIONS OF PITS



'D' = DEPTH OF SLAB

SLAB REINFORCEMENT NOT SHOWN FOR CLARITY

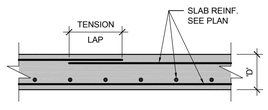
TYPICAL CONCRETE SLAB ON GRADE POUR BREAK (FLOOR JOINT)



NOTE: LOCATION OF JOINT TO BE APPROVED BY ARCHITECT.

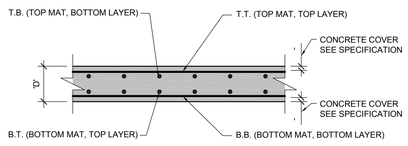
- 'D' = DEPTH OF SLAB
- PROVIDE WATERSTOP IN SLABS HAVING ONE FACE EXPOSED TO EARTH OR WEATHER

TYPICAL CONSTRUCTION JOINT IN STRUCTURAL SLAB



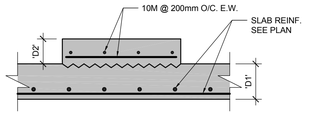
'D' = DEPTH OF SLAB

TYPICAL REINFORCEMENT LAP IN WALLS AND STRUCTURAL SLABS UNLESS NOTED OTHERWISE



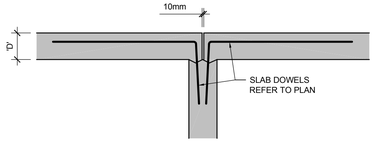
'D' = DEPTH OF SLAB

STRUCTURAL SLAB REBAR PROFILE



'D1' = DEPTH OF SLAB
'D2' = DEPTH OF HOUSE KEEPING PAD
(SEE MECHANICAL DRAWINGS FOR SIZES, LOCATIONS, AND NUMBERS OF THE HOUSEKEEPING PADS)
MIN. THICKNESS 100mm TYP.

HOUSE KEEPING PAD DETAIL

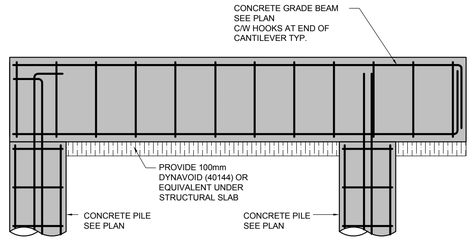


'D' = DEPTH OF SLAB

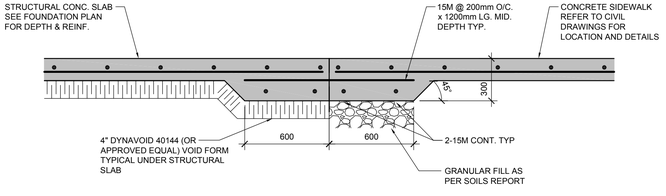
SLAB & GRADE BEAM/WALL REINFORCEMENT NOT SHOWN FOR CLARITY

TYPICAL RECESSED CONCRETE GRADE BEAM/WALL @ DOOR LOCATIONS

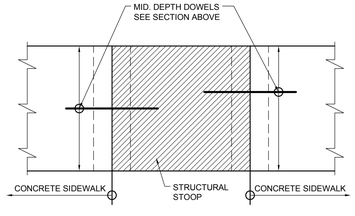
FOR LOCATIONS OF DOOR RECESSES - SEE ARCHITECTURAL DRAWINGS.



TYPICAL DETAIL FOR CANTILEVERED GRADE BEAMS

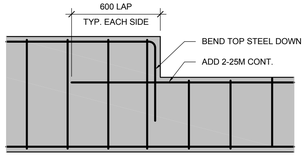


SECTION VIEW



PLAN VIEW

TYPICAL S.O.G. SIDEWALK TO STRUCT. STOOP CONNECTION DETAIL



CHANGE IN GRADE BEAM HEIGHT DETAIL

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ARCHITECTS AND PLANNERS

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Seal

Client

Government of Canada / Gouvernement du Canada

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Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

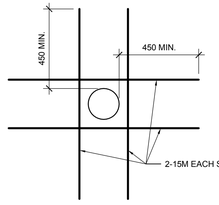
Scale	AS SHOWN	Designed By	HL/LADM
Project No.	16-4314	Drawn By	KM
Date	SEPT. 12, 2017	Checked By	LADM

Drawing Title

TYPICAL FOUNDATION DETAILS

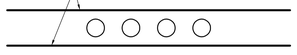
Drawing No.

S1.2



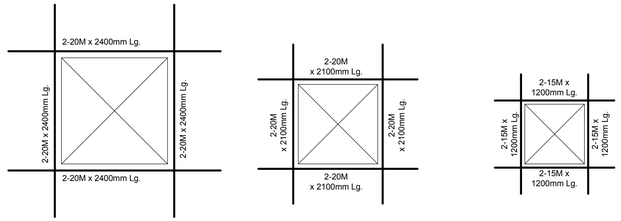
(PLAN DETAIL)

REINFORCEMENT AROUND SLEEVES WITH DIAMETERS LARGER THAN 100mm



(PLAN DETAIL)

ADDITIONAL SLAB REINFORCEMENT WITH FOUR OR MORE SLEEVES

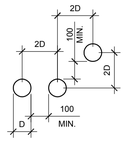


OPENING LESS THAN 1200mmx1200mm

OPENING LESS THAN 900mm x 900mm

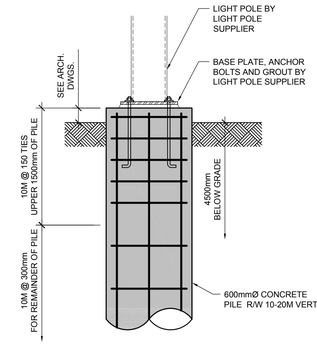
OPENING LESS THAN 300mm x 300mm

TYPICAL REINFORCEMENT FOR OPENINGS IN SLABS AND / OR CONCRETE WALLS



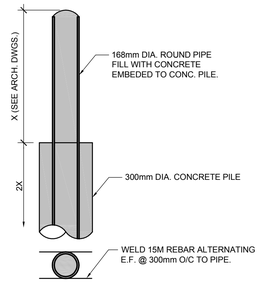
- SPACING OF SLEEVES THROUGH FLAT SLABS AND WALLS TO BE NO LESS THAN INDICATED ABOVE.
- MAX. SLEEVE DIAMETER 100mm
- MAINTAIN CLEAR DISTANCE OF 1.5 TIMES SLAB THICKNESS FROM FACE OF COLUMNS
- MAX. CONDUIT SIZE = 50mm WITH MINIMUM SPACING OF 100mm O/C.
- CONDUITS ARE NOT ALLOWED TO CROSS
- IF USE OF CONDUITS LARGER THAN 50mm IS REQUIRED, A WRITTEN PERMISSION BY ENGINEER IS REQUIRED.

TYPICAL SPACING OF SLEEVES / CONDUITS IN / THROUGH SLABS



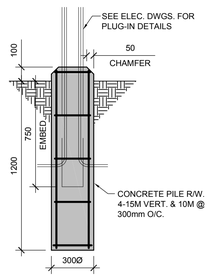
TYPICAL PILE FOR LIGHT POLE SUPPORT DETAIL

(FOR LOCATION SEE ARCH. DWGS.)



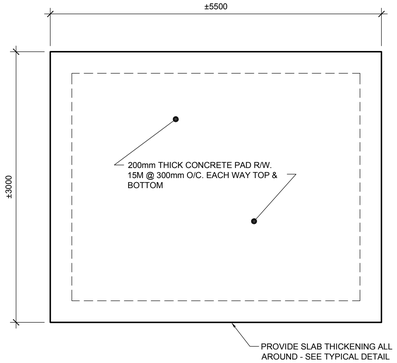
BOLLARD DETAIL

-SEE ARCH. DWGS. FOR LOCATION AND QUANTITY.



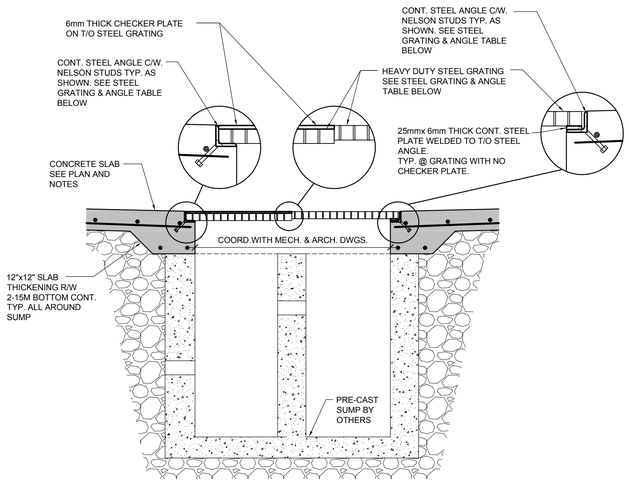
TYPICAL CAR PLUG-IN SECTION

-SEE ARCH. DWGS. FOR LOCATION AND QUANTITY.

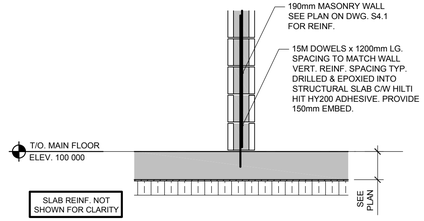


GENERATOR PAD DETAIL

NOT TO SCALE
-SEE ARCH. DWGS. FOR LOCATION
-COORDINATE EXTENTS WITH ARCH. DWGS. PRIOR TO COMMENCING WITH WORK.

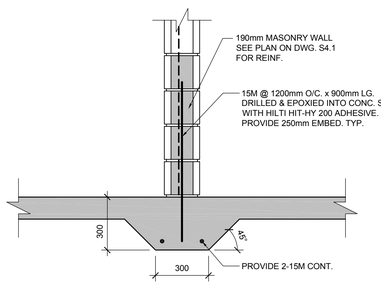


TYPICAL PRE-CAST SUMP PIT DETAIL



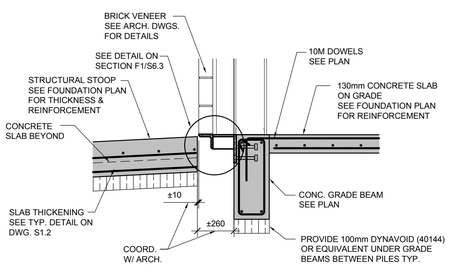
TYPICAL INTERIOR MASONRY WALLS TO STRUCTURAL SLAB DETAIL

1. SEE ARCH. DWGS. FOR LOCATIONS

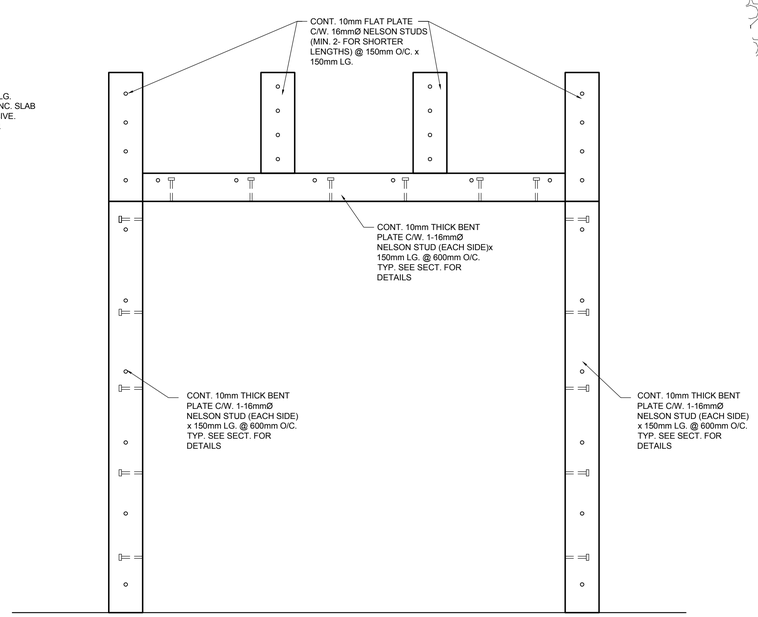


- SLAB REINFORCEMENT NOT SHOWN FOR CLARITY
- SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF MASONRY NON-LOAD BEARING WALLS

TYPICAL DETAIL AT NON-LOAD BEARING MASONRY WALLS ON SLAB ON GRADE



TYPICAL SECTION THROUGH EXTERIOR WALL WITH BRICK VENEER



TYPICAL OVERHEAD DOOR STEEL BACKING PLATE DETAILS

- FOR EXTENTS AND DIMENSIONS OF OVERHEAD DOOR OPENINGS, SEE ARCHITECTURAL DRAWINGS.
- COORDINATED DIMENSIONS & DETAILS OF BENT AND FLAT PLATES WITH ARCH. DWGS. PRIOR TO FABRICATION

STEEL GRATING & ANGLE TABLE

GRATING SPAN (in.)	GRATING TYPE	ANGLE SIZE
UP TO 12	HD-TYPE 30H-102 (38x9.5)	L51x51x9.5
12 - 24	HD-TYPE 30H-102(64x9.5)	L76x76x9.5
24 - 36	HD-TYPE 30H-102 (76x9.5)	L89x89x9.5

1. ALL ANGLES AND STEEL GRATING TO BE GALVANIZED TYP.
2. ALL ANGLES TO COME WITH GALVANIZED 13mmØ NELSON STUD @ 300mm O/C. x100mm LG. .

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ARCHITECTS AND PLANNERS

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Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	APRIL 27, 2017	KM
2	ISSUED FOR PROGRESS	JUNE 15, 2017	KM
3	ISSUED FOR 95% REVIEW	AUGUST 8, 2017	KM
4	ISSUED FOR TENDER	SEPT. 12, 2017	KM

Seal

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

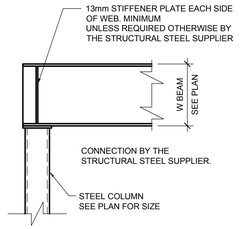
Scale	AS SHOWN	Designed By	HL/LADM
Project No.	16-4314	Drawn By	KM
Date	SEPT. 12, 2017	Checked By	LADM

Drawing Title

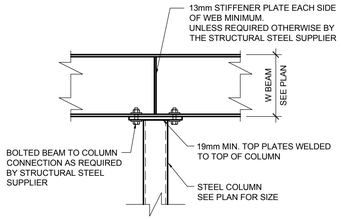
TYPICAL FOUNDATION & FRAMING DETAILS

Drawing No.

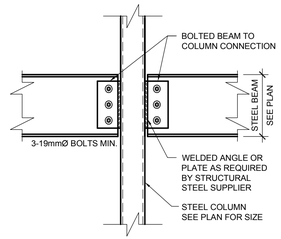
S1.3



STEEL BEAM TO HSS COLUMN CONNECTION DETAIL

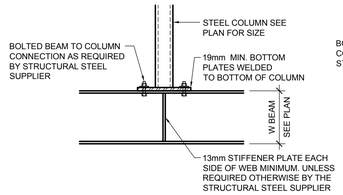


CANTILEVERED STEEL BEAM TO HSS COLUMN CONNECTION DETAIL

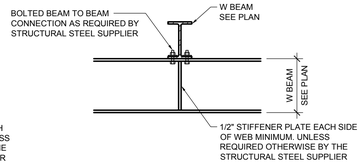


TYPICAL INTERMEDIATE BEAM TO COLUMN CONNECTION DETAIL

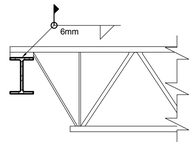
LOCALIZE HSS REINFORCEMENT IF REQUIRED DUE TO CONNECTION TYPE SHALL BE THE RESPONSIBILITY OF THE STRUCTURAL STEEL SUPPLER



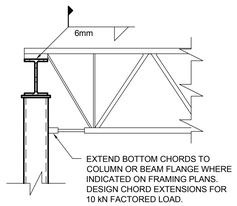
TYPICAL STEEL COLUMN BEARING ON STEEL BEAM DETAIL



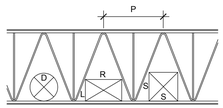
TYPICAL CANTILEVERED STEEL BEAM BEARING ON STEEL BEAM DETAIL



TYPICAL STEEL JOIST TO STEEL BEAM CONNECTION DETAIL



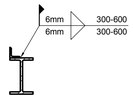
TYPICAL TIE JOIST DETAIL



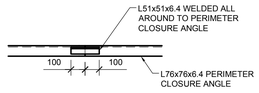
JOIST DEPTH (mm)	WEB OFFSET (P) (mm)	OPENINGS(mm)			
		ROUND (D)	SQUARE (S)	RECTANGULAR	
				L	R
450	300	225	175	125	225
450	600	320	265	200	420
550	300	250	225	175	275
550	600	390	315	240	400

REQUIRED DIMENSION OF FREE OPENINGS FOR VARIOUS JOIST CONFIGURATIONS

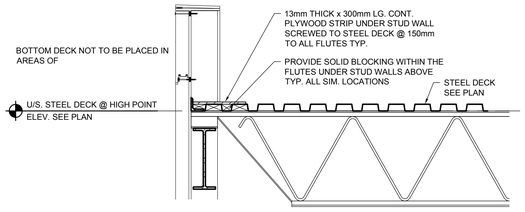
ALL JOIST OPENING SIZES TO BE CONFIRMED / COORDINATED WITH THE JOIST SUPPLIER. ABOVE TABLE IS FOR INFORMATION ONLY.



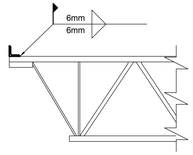
TYPICAL STEEL ANGLE TO STEEL BEAM DETAIL



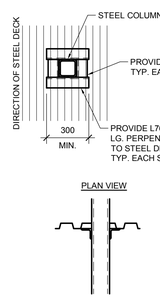
TYPICAL ROOF CLOSURE ANGLE SPLICE DETAIL



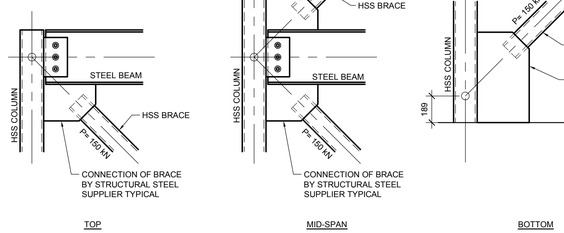
TYPICAL DETAIL @ EDGE OF ROOF DECK FOR PARAPET SUPPORT



TYPICAL STEEL ANGLE TO STEEL JOIST DETAIL

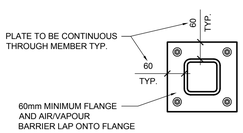


TYPICAL STEEL DECK SUPPORT @ COLUMN LOCATIONS DETAIL



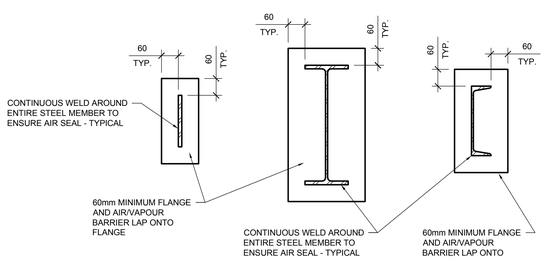
SCHEMATIC HSS BRACE CONNECTION DETAILS

- LOADS SHOWN ARE FACTORED LOADS



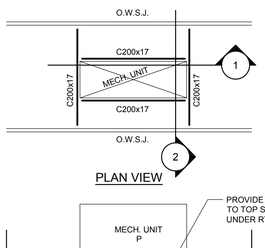
ALL HSS STEEL MEMBERS GOING FROM EXTERIOR TO INTERIOR OF BUILDING, THROUGH VAPOUR BARRIER, REQUIRES 13mm THICK STEEL PLATES TO RUN CONTINUOUS THROUGH THE HSS MEMBER. STEEL PLATE TO BE CONTINUOUSLY WELDED ALL AROUND TO HSS MEMBER TO MAINTAIN STRUCTURAL CAPACITY OF HSS MEMBER AND TO ALLOW FOR PROPER CONTINUOUS AIR/VAPOUR MEMBRANE ADHESION (TYPICAL).

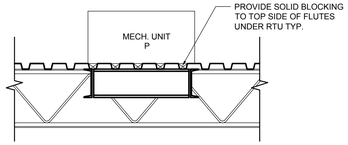
TYPICAL HSS AIR/VAPOUR BARRIER FLANGE DETAIL



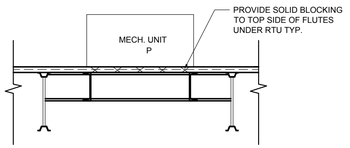
ALL STEEL MEMBERS GOING FROM EXTERIOR TO INTERIOR OF BUILDING, THROUGH VAPOUR BARRIER, REQUIRE 5mm THICK STEEL GUSSET PLATE CONTINUOUSLY WELDED TO ALL SIDES OF STRUCTURAL MEMBER TO ALLOW FOR PROPER CONTINUOUS AIR/VAPOUR MEMBRANE ADHESION. (TYPICAL)

TYPICAL AIR/VAPOUR BARRIER FLANGE DETAIL





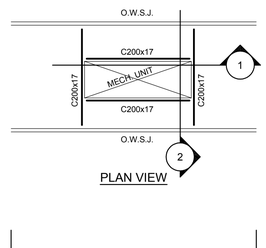
SECTION 1

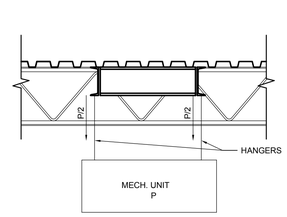


SECTION 2

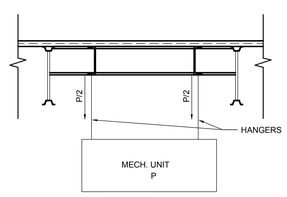
TYPICAL ROOF TOP UNIT DETAIL

(FOR LOCATIONS AND NO. REQUIRED - SEE MECHANICAL AND ARCHITECTURAL DRAWINGS)





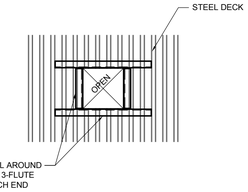
SECTION 1



SECTION 2

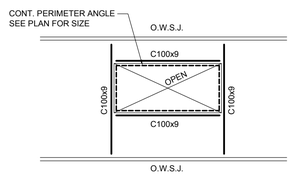
TYPICAL HANGING UNIT DETAIL

(FOR LOCATIONS AND NO. REQUIRED - SEE MECHANICAL AND ARCHITECTURAL DRAWINGS)



TYPICAL ROOF OPENING FRAMING DETAIL FOR OPENING LESS THAN 450mm

(SEE ARCH. & MECH. DWGS. FOR LOCATIONS)



TYPICAL ROOF OPENING FRAMING DETAIL FOR OPENING GREATER THAN 450mm

(SEE ARCH. & MECH. DWGS. FOR LOCATIONS)

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Issues/Revisions

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Seal

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

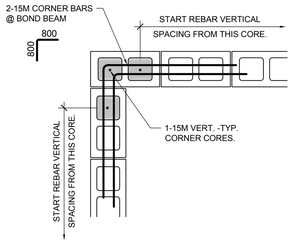
Scale	AS SHOWN	Designed By	HL/LADM
Project No.	16-4314	Drawn By	KM
Date	SEPT. 12, 2017	Checked By	LADM

Drawing Title

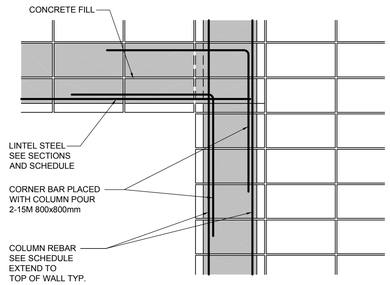
TYPICAL STEEL FRAMING DETAILS

Drawing No.

S1.4

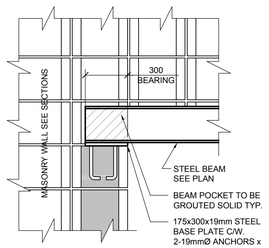


TYPICAL CORNER VERTICAL REINFORCEMENT

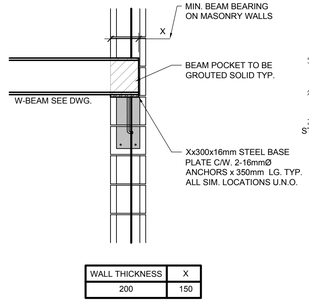


- LINTEL TO HAVE A MIN. OF 200mm BEARING.

TYPICAL MASONRY LINTEL TO COLUMN DETAIL

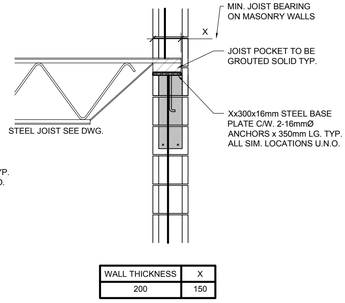


TYPICAL STEEL BEAM BEARING PARALLEL ON MASONRY WALL



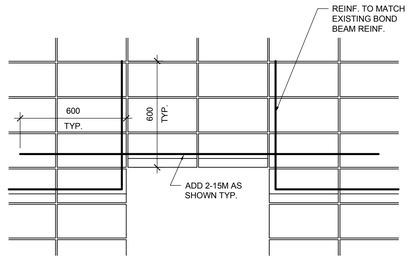
WALL THICKNESS	X
200	150

TYPICAL STEEL BEAM BEARING ON MASONRY WALL

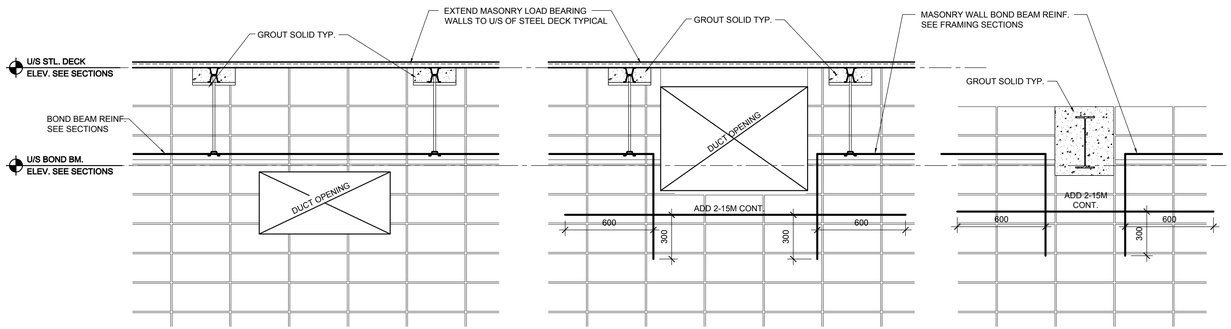


WALL THICKNESS	X
200	150

TYPICAL STEEL JOIST BEARING ON MASONRY WALL



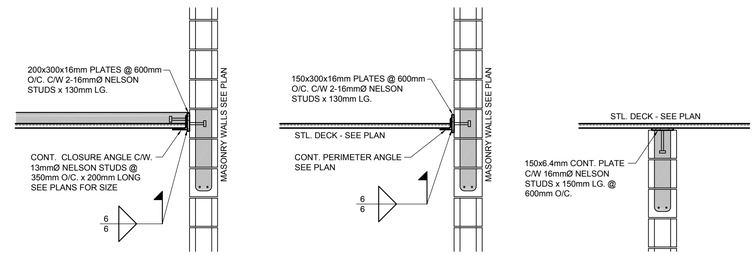
TYPICAL CHANGE IN BOND BEAM ELEVATION



TYPICAL WALL REINFORCEMENT FOR MECHANICAL DUCT PASS THRU MASONRY WALLS

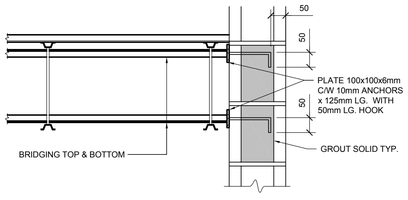
COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT DUCT SIZES AND LOCATIONS

TYPICAL STEP DOWN BOND BEAM DETAIL AT STEEL BEAM POCKETS

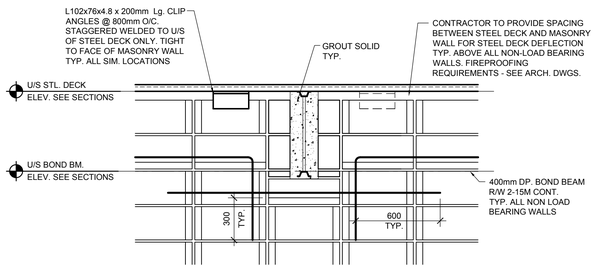


AT FLOOR LEVEL | AT ROOF LEVEL | CONT. PLATE ON T/O. WALLS

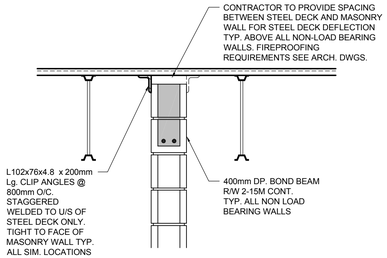
TYPICAL STEEL ANGLE TO MASONRY WALLS CONNECTION DETAIL



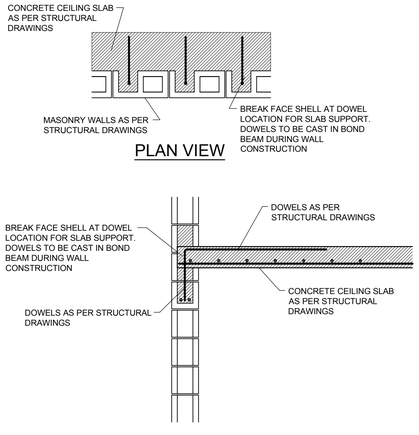
BRIDGING ANCHORAGE TO MASONRY WALL



TYPICAL INTERIOR NON-LOAD BEARING MASONRY WALLS WITH JOIST PERPENDICULAR

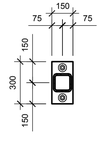


TYPICAL INTERIOR NON-LOAD BEARING MASONRY WALLS WITH STEEL ROOF



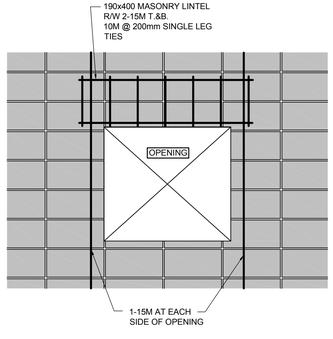
SECTION DETAIL

TYPICAL CONCRETE CEILING SLAB TO BEARING MASONRY WALL CONNECTION DETAIL



HSS HEADER TO MASONRY WALL SIDE PLATE DETAIL

150x300x13mm STEEL PLATE C/W. 2-19mmØ THREADED ANCHORS DRILLED & EPOXIED INTO MASONRY WALL WITH HILTI HIT-HY 200 ADHESIVE. PROVIDE 150mm MIN. EMBED. INTO MASONRY WALL



TYPICAL MASONRY WALL OPENING DETAIL AT MECH. OPENING AND ROOF ACCESS HATCH LOCATIONS

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

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Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	APRIL 27, 2017	KM
2	ISSUED FOR PROGRESS	JUNE 15, 2017	KM
3	ISSUED FOR 95% REVIEW	AUGUST 8, 2017	KM
4	ISSUED FOR TENDER	SEPT. 12, 2017	KM

Seal

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

Scale	AS SHOWN	Designed By	HL/LADM
Project No.	16-4314	Drawn By	KM
Date	SEPT. 12, 2017	Checked By	LADM

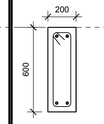
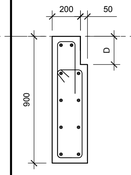
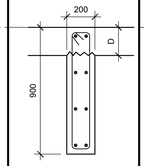
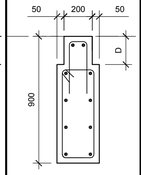
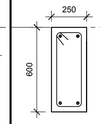
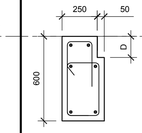
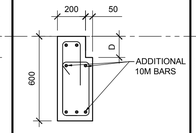
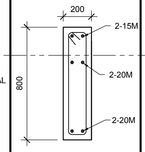
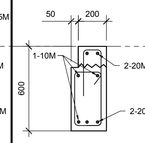
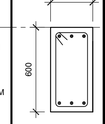
Drawing Title

TYPICAL MASONRY FRAMING DETAILS

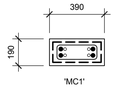
Drawing No.

S1.5

CONCRETE GRADE BEAM SCHEDULE 'GB'

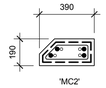
TYPE	'GB1'	'GB2'	'GB3'	'GB4'	'GB5'	'GB6'	'GB7'	'GB8'	'GB9'	'GB10'
SIZE	200x600	250x900	200x900	300x900	250x600	300x600	250x600	200x800	250x600	300x600
REINFORCEMENT	2-20M TOP 2-20M BOT. 10M @ 300mm O/C. TIES	2-25M PRIMARY TOP 3-10M MID. E.F. 2-25M BOTTOM 10M @ 250mm O/C. TIES	2-25M TOP 2-10M MID. E.F. 2-25M BOT. 10M @ 300mm O/C. TIES	2-25M PRIMARY TOP 3-10M MID. E.F. 2-25M BOT. 10M @ 250 O/C. TIES	2-20M TOP 2-20M BOT. 10M @ 300mm O/C. TIES	2-20M PRIMARY TOP 2-10M SECONDARY TOP 2-20M BOTTOM 10M @ 300mm O/C. TIES	2-20M PRIMARY TOP 2-20M BOTTOM SEE BELOW FOR ADD. REINF. 10M @ 300mm O/C. TIES	SEE BELOW 10M @ 300mm O/C. TIES	SEE BELOW 10M @ 300mm O/C. TIES	3-20M TOP 3-20M BOT. 10M @ 300mm O/C. TIES
SECTION SCHEMATIC (NOT TO SCALE) T/O CONC. SLAB ELEV. 100 000										

1. SPLICE BOTTOM REINF. BARS OVER PILES AND TOP REINF. AT MID-LENGTH IN BETWEEN PILES. REFER TO BAR EMBEDMENT AND LAP SPLICE TABLE FOR LAP SPLICE.
2. ENSURE ALL GRADE BEAMS ARE TEMPORARILY BRACED & LATERALY SUPPORTED DURING BACK-FILLING & COMPACTION.



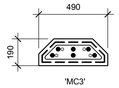
'MC1'

190x390 MASONRY COLUMN
R/W 4-20M VERT. #9 GAUGE
WIRE @ 200mm WITHIN THE MORTAR
JOINT. ADD ADDITIONAL 4-15M
x 1200mm LG. DOWELS INTO CONC.
FOUNDATION TYP.



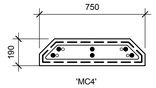
'MC2'

190x390 MASONRY COLUMN
R/W 4-20M VERT. #9 GAUGE
WIRE @ 200mm WITHIN THE MORTAR
JOINT. ADD ADDITIONAL 4-15M
x 1200mm LG. DOWELS INTO CONC.
FOUNDATION TYP.



'MC3'

190x490 MASONRY COLUMN
R/W 6-20M VERT. #9 GAUGE
WIRE @ 200mm WITHIN THE MORTAR
JOINT. ADD ADDITIONAL 4-15M
x 1200mm LG. DOWELS INTO CONC.
FOUNDATION TYP.



'MC4'

190x490 MASONRY COLUMN
R/W 6-20M VERT. #9 GAUGE
WIRE @ 200mm WITHIN THE MORTAR
JOINT. ADD ADDITIONAL 4-15M
x 1200mm LG. DOWELS INTO CONC.
FOUNDATION TYP.

'MC5'

190x390 MASONRY COLUMN
R/W 4-20M VERT. #9 GAUGE
WIRE @ 200mm WITHIN THE MORTAR
JOINT. ADD ADDITIONAL 4-15M
x 1200mm LG. DOWELS INTO CONC.
FOUNDATION TYP.

MASONRY COLUMN DETAILS

*ALL DIMENSIONS TO BE CONFIRMED AND COORDINATED WITH ARCH. DRAWINGS

MASONRY LINTEL SCHEDULE 'L'
(LOAD BEARING MASONRY WALLS)

TYPE	SIZE	REINFORCEMENT			
		TOP	BOTTOM	MID.	SINGLE LEG TIES
'L1'	190x400	2-15M	2-15M	----	10M @ 200mm O/C.
'L2'	190x600	2-15M	2-15M	1-15M	10M @ 200mm O/C.

- PROVIDE CHANNEL BLOCKS FOR BOTTOM COURSE AND REGULAR BLOCKS WITH KNOCK OUT WEBS FOR REMAINING COURSES

BLOCK LINTEL SCHEDULE FOR
NON-LOAD BEARING MASONRY WALLS

OPENING	SIZE	REINFORCEMENT			
		TOP	BOTTOM	MIDDLE	SINGLE LEG TIES
UP TO 3000mm	400mm DP.	2-15M	2-15M	-	10M @ 200mm O/C.
3000mm TO 4200mm	600mm DP.	2-15M	2-15M	1-15M	10M @ 200mm O/C.
4200mm TO 5500mm	600mm DP.	2-20M	2-20M	1-15M	10M @ 200mm O/C.

- PROVIDE CHANNEL BLOCKS FOR BOTTOM COURSE AND REGULAR BLOCKS WITH KNOCK OUT WEBS FOR REMAINING COURSES

END BEARING CONCRETE PILE SCHEDULE 'P'

TYPE	SIZE			REINFORCEMENT	
	SHAFT	BELL	ELEV. @ BASE U.N.O.	VERTICAL	STIRRUPS
'P1'	400mmØ	900mmØ	92 500	4-15M	10M @ 300mm O/C.
'P2'	400mmØ	1200mmØ	92 500	4-15M	10M @ 300mm O/C.
'P3'	500mmØ	1500mmØ	92 500	6-15M	10M @ 300mm O/C.

1. EXTEND PILE REINFORCEMENT FOR FULL LENGTH OF PILE.
2. INSTALL PILES UNDER THE DIRECT SUPERVISION OF A GEOTECHNICAL ENGINEER AND PAID FOR BY OWNER.
3. PROVIDE A SEPARATE PRICE FOR CASING OF ALL PILES FOR FULL LENGTH.
4. PROVIDE A UNIT RATE PRICE FOR CASING OF ALL DIFFERENT PILE DIAMETERS.
5. CONCRETE CAST IN PLACE END BEARING PILES HAVE BEEN DESIGNED ON THE BASIS OF A FACTORED BEARING CAPACITY OF 400 kPa IN THE BEARING STRATUM RECOMMENDED IN THE GEOTECHNICAL REPORT. BOTTOM OF PILE ELEVATION TO BE VERIFIED IN WRITING BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
6. ABOVE BEARING CAPACITIES SHALL BE VERIFIED ON SITE BY A GEOTECHNICAL ENGINEER IN WRITING AND PAID FOR BY THE CONTRACTOR.
7. PRIOR TO PLACING CONCRETE FOR PILE FOUNDATIONS, BEARING STRATA FOR PILES SHALL BE INSPECTED BY A GEOTECHNICAL CONSULTANT TO CONFIRM THEIR LOAD CARRYING CAPACITY IN WRITING PRIOR TO COMMENCING WITH WORK. P.E.C. IS NOT RESPONSIBLE FOR CONFIRMING FOUNDATION CAPACITIES OF SOIL.
8. PILE LENGTHS SHOWN ARE NOT FINAL AND MAY VARY IF SITE CONDITIONS ARE NOT AS PER SOILS REPORT. EXTEND ALL PILES TO A BEARING LAYER APPROVED BY THE GEOTECHNICAL ENGINEER. INFORM P.E.C. OF ALL SUCH CASES PRIOR TO CONSTRUCTION.

SKIN FRICTION CONCRETE PILE SCHEDULE 'P'

TYPE	SIZE		REINFORCEMENT	
	SHAFT	LENGTH	VERTICAL	STIRRUPS
'P4'	400mmØ	8m	4-15M	10M @ 300mm O/C.

1. EXTEND PILE REINFORCEMENT FOR FULL LENGTH OF PILE.
2. CONCRETE CAST-IN PLACE PILES HAVE BEEN DESIGNED ON THE BASIS OF THE FOLLOWING CAPACITIES:

   DEPTH BELOW GRADE SKIN FRICTION (FACTORED)
   0-1.5m 0 kPa
   BELOW 1.5m 14 kPa

3. ABOVE BEARING CAPACITIES SHALL BE VERIFIED ON SITE BY A GEOTECHNICAL ENGINEER IN WRITING AND PAID FOR BY THE CONTRACTOR.
4. INSTALL PILES UNDER THE DIRECT SUPERVISION OF A GEOTECHNICAL ENGINEER.
5. PROVIDE A SEPARATE PRICE FOR CASING OF ALL PILES FOR FULL LENGTH.
6. PROVIDE A UNIT RATE PRICE FOR CASING OF ALL DIFFERENT PILE DIAMETERS.
7. PRIOR TO PLACING CONCRETE FOR PILE FOUNDATIONS, BEARING STRATA FOR PILES SHALL BE INSPECTED BY A GEOTECHNICAL CONSULTANT TO CONFIRM THEIR LOAD CARRYING CAPACITY IN WRITING PRIOR TO COMMENCING WITH WORK. P.E.C. IS NOT RESPONSIBLE FOR CONFIRMING FOUNDATION CAPACITIES OF SOIL.
8. PILE LENGTHS SHOWN ARE NOT FINAL AND MAY VARY IF SITE CONDITIONS ARE NOT AS PER SOILS REPORT. EXTEND ALL PILES TO A BEARING LAYER APPROVED BY THE GEOTECHNICAL ENGINEER. INFORM P.E.C. OF ALL SUCH CASES PRIOR TO CONSTRUCTION.

COLUMN SCHEDULE 'C'

TYPE	SIZE	REMARK
'C1'	HSS 127x127x8.0	350W STEEL
'C2'	HSS 127x127x9.5	350W STEEL
'C3'	HSS 127x127x13.0	350W STEEL
'C4'	HSS 127x127x6.4	350W STEEL
'C5'	HSS 102x102x6.4	350W STEEL
'C6'	HSS 152x152x6.4	350W STEEL
'CH'	L51x51x6.4	350W STEEL

1. 'CA' ON PLAN DENOTES COLUMN FROM ABOVE.
2. 'CH' ON PLAN DENOTES COLUMN HANGER.

BRICK VENEER LOOSE
ANGLE SUPPORT CHART

ANGLE	OPENING
L152x102x9.5 (LLV)	0-2.0m
L178x102x9.5 (LLV)	2.0m-3.2m

1. EXTEND 150mm MIN. PAST OPENING EACH SIDE
2. (LLV) DENOTES LONGER LEG VERTICAL
3. ANGLES ARE TO BE FULLY GALVANIZED

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

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Canada

Project

WABASCA / DESMARAIS
GOVERNMENT BUILDING

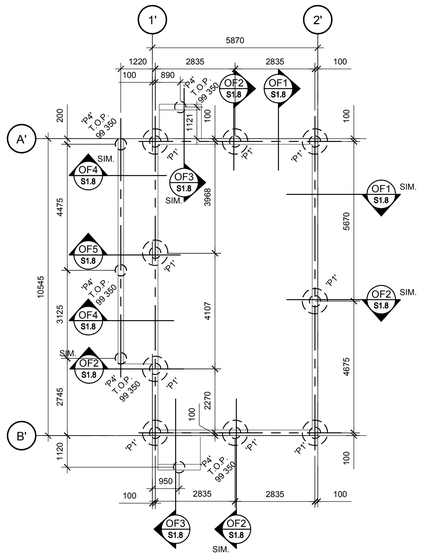
Scale	AS SHOWN	Designed By	HL/LADM
Project No.	16-4314	Drawn By	KM
Date	SEPT. 12, 2017	Checked By	LADM

Drawing Title

SCHEDULES, MASONRY COLUMNS & BASE PLATE DETAILS

Drawing No.

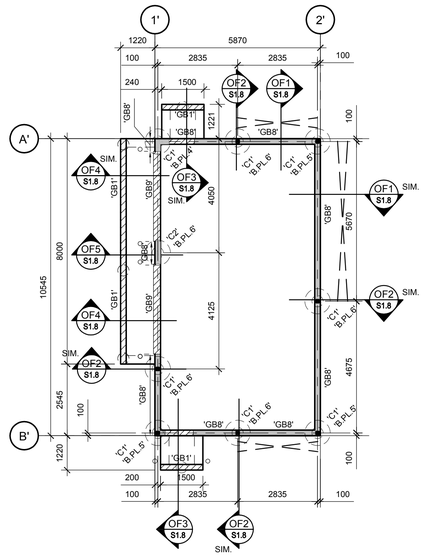
S1.6



OUT BUILDING PILE LAYOUT PLAN

SCALE: 1:100

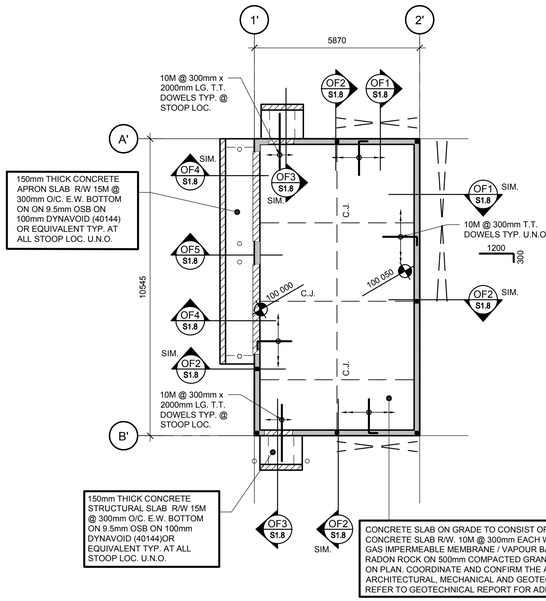
1. SEE DRAWINGS S1.1 TO S1.6 FOR GENERAL NOTES, TYPICAL DETAILS & SCHEDULES.
2. T/O PILE ELEVATION IS AT 99 400 UNLESS NOTED AS THUS: T.O.P. XXX XXX ON PLAN.
3. GENERAL CONTRACTOR TO COORDINATE ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL AND CIVIL DRAWINGS PRIOR TO COMMENCING WITH WORK.
4. ENSURE THAT THE REQUIREMENTS OUTLINED IN THE GEOTECHNICAL REPORT ARE READ AND UNDERSTOOD PRIOR TO COMMENCING WITH FOUNDATION WORK.
5. INSTALLATION OF PILES SHALL BE UNDER THE DIRECT SUPERVISION OF A GEOTECHNICAL ENGINEER. PROVIDE AN ACCURATE REPORT AT COMPLETION OF WORK WITH ALL PILE LOGS. FINAL REPORT SHALL BE SIGNED AND SEALED BY THE ENGINEER SUPERVISING THE INSTALLATION. PROVIDE SCHEDULES A,B, AND C,AS REQUIRED TO LOCAL AUTHORITIES AND COPIES TO ENGINEER OF RECORD.
6. UNLESS NOTED OTHERWISE PROVIDE A MINIMUM OF 4-15M DOWELS x 1200mm LONG FROM PILES TO GRADE BEAMS ABOVE.
7. TIE ALL DOWELS AND ANCHOR BOLTS IN PLACE BEFORE POURING CONCRETE USE TEMPLATES TO ENSURE CORRECT PLACEMENT. NO WET SETTING ALLOWED.
8. PILES SHALL BE PLACED WITH THE FOLLOWING TOLERANCES:
   * NOT MORE THAN 1% OF ITS LENGTH OUT OF PLUMB VERTICALLY.
   * NOT MORE THAN 1/2" (6mm) OFF CENTER AT THE TOP.
12. PROVIDE CASING AS REQUIRED.
13. FOR ADDITIONAL NOTES AND REQUIREMENTS SEE SPECIFICATIONS.
14. VERIFY AND MARK ALL UNDERGROUND LINES AND RE-ENSURE THAT NEW PILE LOCATIONS DO NOT INTERFERE WITH ANY UNDERGROUND UTILITY LINES.



OUT BUILDING FOUNDATION PLAN

SCALE: 1:100

1. SEE DRAWINGS S1.1 TO S1.6 FOR GENERAL NOTES, TYPICAL DETAILS & SCHEDULES.
2. LEAVE GRADE BEAM FORMS INTACT UNTIL CONCRETE HAS REACHED 70% OF ITS SPECIFIED STRENGTH.
3. PROVIDE BLOCKOUT IN GRADE BEAMS AT DOORWAYS TYP. SHOWN ON PLAN AS THUS: ▨
4. ENSURE ALL GRADE BEAMS ARE TEMPORARILY BRACED AND LATERALLY SUPPORTED.
5. UNLESS NOTED OTHERWISE PROVIDE A MINIMUM OF 4-15M DOWELS x 1200mm LONG FROM PILES TO GRADE BEAMS ABOVE.
6. PROTECT SUBGRADE FROM FREEZING BEFORE, DURING AND AFTER SLAB ON GRADE IS POURED. PROVIDE ADEQUATE PROTECTION TO MAINTAIN SUBGRADE TEMPERATURE ABOVE 5°C.
7. FOR COLUMN BASE PLATE DETAILS, SEE DRAWING S6.1.



CONCRETE SLAB ON GRADE TO CONSIST OF 130mmTHICK CONCRETE SLAB R/W. 10M @ 300mm EACH WAY MIDDLE, ON SOIL GAS IMPERMEABLE MEMBRANE / VAPOUR BARRIER (15 mil) ON RADON ROCK ON 500mm COMPACTED GRANULAR FILL TYP. U.N.O. ON PLAN. COORDINATE AND CONFIRM THE ABOVE WITH ARCHITECTURAL, MECHANICAL AND GEOTECHNICAL REPORT. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

OUT BUILDING CONCRETE SLAB PLAN & CONTROL JOINT LAYOUT PLAN

SCALE: 1:100

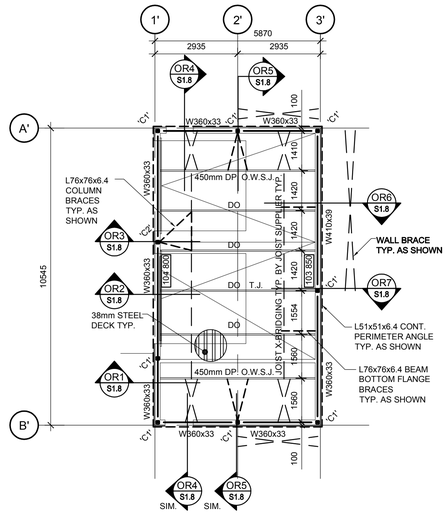
1. SEE DRAWINGS S1.1 TO S1.6 FOR GENERAL NOTES, TYPICAL DETAILS & SCHEDULES.
2. T/O CONC. SLAB ELEV. U.N.O. IS SHOWN ON PLAN AS THUS: GEODETIC ELEVATION IS AT: 554.80, TO BE CONFIRMED AND COORDINATED WITH ARCH. DWGS. PRIOR TO COMMENCING WITH WORK. XX.XX
3. C.J. ON PLAN INDICATES CONTROL JOINT. FILL THE JOINTS WITH A WATER PROOF SIKA SEALANT SUCH AS SIKA FLEX 2C SL OR EQUIVALENT. CONTROL JOINTS ARE NOT TO BE PLACED IN STRUCTURAL SLABS. VERIFY WITH ARCH. DWGS. FOR TILE FLOOR LAYOUT PATTERNS BEFORE COMMENCING WITH WORK.
4. SLOPE SLAB TO DRAINS AS PER ARCHITECTURAL AND MECHANICAL DRAWINGS. MAINTAIN FULL SLAB THICKNESS THROUGHOUT.
5. SEE PLAN FOR STRUCTURAL SLAB THICKNESS AND REINFORCEMENT.
6. SEE PLAN FOR SLAB ON GRADE THICKNESS AND REINFORCEMENT.
7. FOR FLOOR CURBS, TRENCHES AND MISCELLANEOUS DETAILS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS. FOR LOCATION OF ALL SIDEWALKS AND / OR CONCRETE STOOPS SEE ARCHITECTURAL DRAWINGS.
8. PROVIDE BLOCKOUT IN GRADE BEAMS AT DOORWAYS TYP. SHOWN ON PLAN AS THUS: ▨
9. ENSURE ALL GRADE BEAMS ARE TEMPORARILY BRACED AND LATERALLY SUPPORTED.
10. PROVIDE A FULL TENSION SPLICE AT ALL LAPS IN SLAB REBAR.
11. REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATIONS OF SLAB DEPRESSIONS. MAINTAIN FULL SLAB THICKNESS THROUGHOUT.
12. PROTECT SUBGRADE FROM WEATHER ELEMENTS BEFORE, DURING AND AFTER SLAB ON GRADE IS POURED. PROVIDE ADEQUATE PROTECTION TO MAINTAIN SUBGRADE TEMPERATURE ABOVE 5°C.

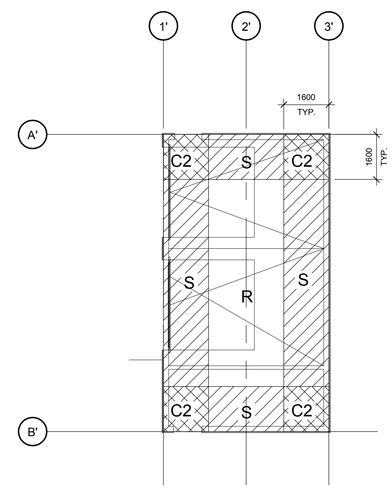
IMPORTANT NOTE

- SAW CUTS ARE NOT TO BE PLACED IN STRUCTURAL SLABS.

SUBGRADE / SUB-BASE PREPARATION FOR GRADE SUPPORTED FLOOR SLABS

1. PREPARATION / PROTECTION OF SUBGRADE / SUB-BASE IS NOT PART OF P.E.C.'S SCOPE OF WORK AND AS SUCH THE CONTRACTOR SHALL REVIEW AND FOLLOW THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT. PREPARATION OF THE SUB-GRADE / SUB-BASE AND NEW FILL REQUIREMENTS SHALL BE REVIEWED ANDAPPROVED BY A GEOTECHNICAL ENGINEER WITHIN 24 HOURS PRIOR TO POURING CONCRETE.
2. REMOVE ALL ORGANIC TOPSOIL, FILL AND OTHER DELETERIOUS MATERIAL FROM THE BUILDING SLAB AREA.DEPTHS OF TOP SOIL AND FILL MAY VARY THROUGHOUT THE SITE GEOTECHNICAL ENGINEER TO REVIEW AND ADVISE.
3. FOLLOWING THE SUBCUTTING OF THE ORGANIC TOPSOIL AND FILL LAYERS, THE GRADE SHALL BE COMPACTED AND ANY SOFT SOILS BE IDENTIFIED AND ROLL PROOFED PRIOR TO PLACEMENT OF THE NEW BACKFILL. GEOTECHNICAL ENGINEER TO ADVISE CONTRACTOR ACCORDINGLY.
4. NEW ENGINEERED FILL SHALL BE COMPACTED AS PER THE GEOTECHNICAL REPORT. FILL MATERIAL SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER.
5. PROVIDE 15 mil ON SOIL GAS IMPERMEABLE MEMBRANE / VAPOUR BARRIER WITH TAPED JOINTS TO THE UNDERSIDE OF SLAB ON GRADE. LAP ALL JOINTS 8" MIN.
6. PROTECT SUBGRADE FROM WEATHER ELEMENTS BEFORE, DURING AND AFTER SLAB ON GRADE IS POURED. PROVIDE ADEQUATE PROTECTION TO MAINTAIN SUBGRADE TEMPERATURE ABOVE 5°C.
7. SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.





OUT BUILDING ROOF FRAMING PLAN

SCALE: 1:100

1. SEE DRAWINGS S1.1 TO S1.6 FOR GENERAL NOTES, TYPICAL DETAILS & SCHEDULES.
2. REFER TO GENERAL NOTES FOR ROOF DESIGN LOADS.
3. U/S STEEL DECK IS NOTED ON PLAN AS THUS: XXX XXX
4. ROOF DECK SHALL CONSIST OF 38mm STEEL DECK U.N.O ON DRAWINGS. ACTUAL DECK THICKNESS AND PROFILE TO BE DESIGNED BY THE DECK SUPPLIER. SEE GENERAL NOTES AND SPECIFICATIONS FOR MORE INFORMATION.
5. EXTEND JOIST BRIDGING TO END BAYS.
6. UNLESS NOTED OTHERWISE ON PLAN, WALL BRACE SHOWN ON PLAN THUS: SHALL CONSIST OF HSS 127x127x6.4 WELDED ALL AROUND TYP.U.N.O.
7. HEADERS HAVE BEEN DESIGNED FOR L/240 DEFLECTION. WINDOW SUPPLIER TO BE ADVISED ACCORDINGLY AND MAKE ALLOWANCE FOR HEADER DEFLECTION.
8. PROVIDE 16mm SAG RODS @ 1800mm O/C MAX. TYP. ALL HEADERS ABOVE WINDOWS / GIRTS UNLESS NOTED OTHERWISE ON DRAWINGS.
9. ALL HEADERS TO COME WITH 10mm CAP PLATES AND TO BE WELDED ALL AROUND TO STEEL SUPPORTS ON EACH END.

WIND UPLIFT PLAN

SCALE: 1:100

LOADS SHOWN ARE GROSS SERVICE LOADS (IMPORTANT FACTOR NOT INCLUDED)

LEGEND

- C2= -2.0 kPa
- S= -1.3 kPa
- R= -1.1 kPa

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1	ISSUED FOR 50% REVIEW	APRIL 27, 2017	KM
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Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

Scale	AS SHOWN	Designed By	HL/LADM
Project No.	16-4314	Drawn By	KM
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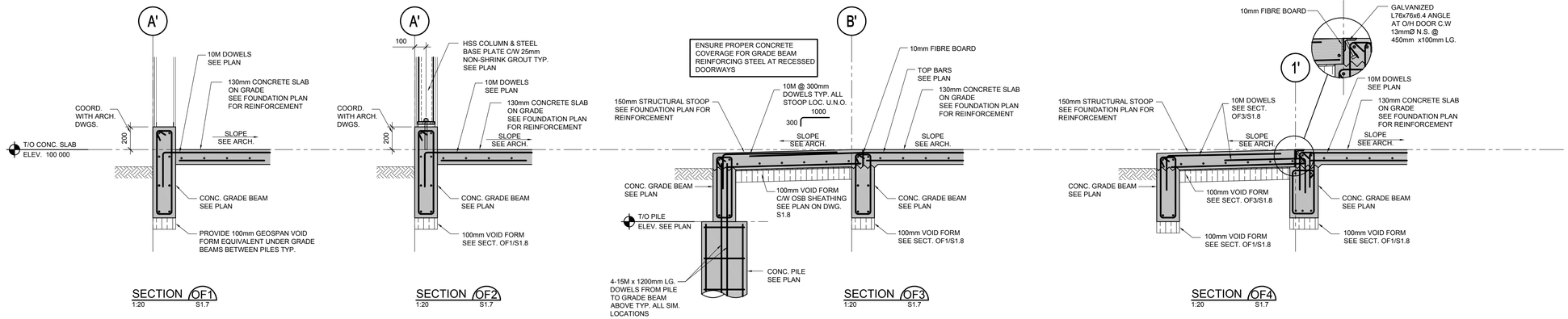
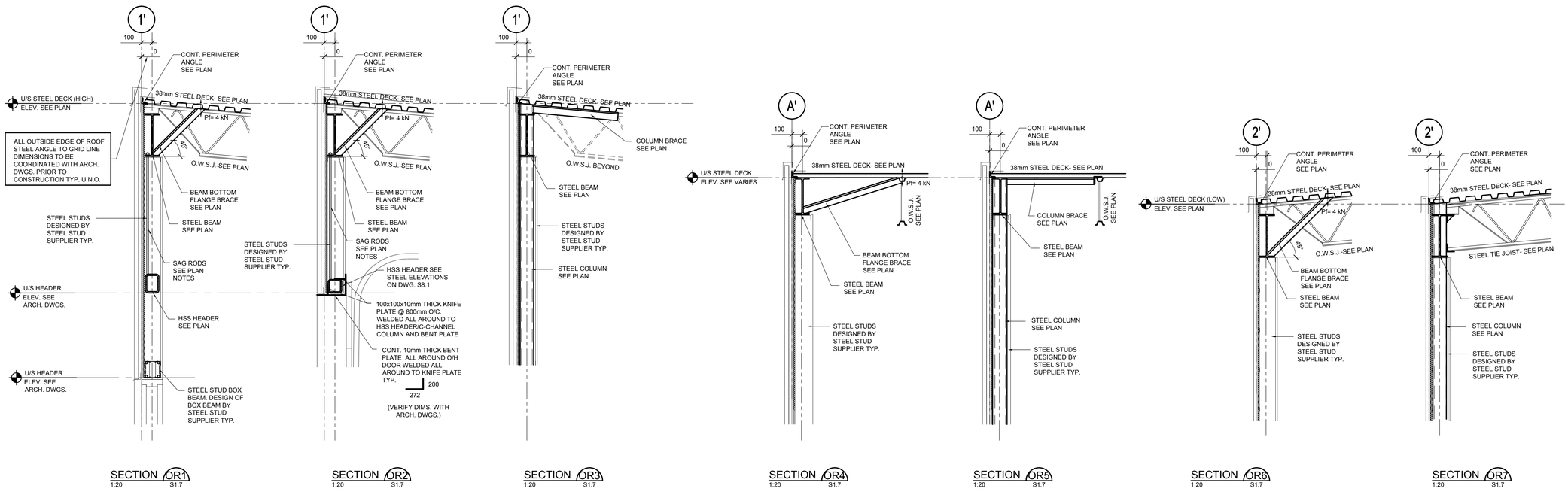
Drawing Title

OUT BUILDING PLANS

Drawing No.

S1.7





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WABASCA / DESMARAIS GOVERNMENT BUILDING

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Project No.	16-4314	Drawn By	KM
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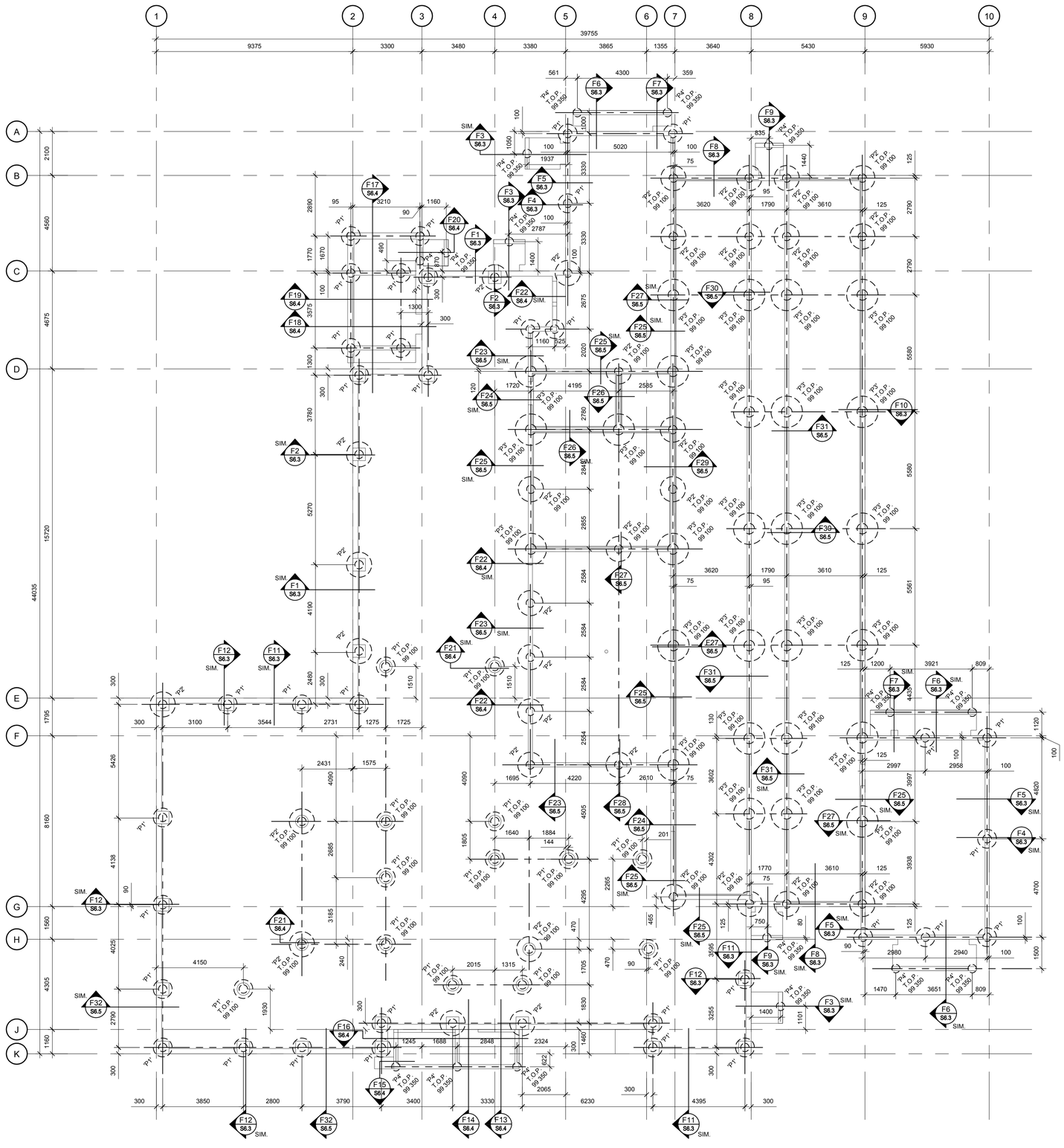
Drawing Title

OUT BUILDING SECTIONS

Drawing No.

S1.8



PILE LAYOUT PLAN

SCALE: 1:100

1. SEE DRAWINGS S1.1 TO S1.6 FOR GENERAL NOTES, TYPICAL DETAILS & SCHEDULES.
2. T/O PILE ELEVATION IS AT 99 400 UNLESS NOTED AS THUS: T.O.P. XXX XXX ON PLAN.
3. GENERAL CONTRACTOR TO COORDINATE ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL AND CIVIL DRAWINGS PRIOR TO COMMENCING WITH WORK.
4. ENSURE THAT THE REQUIREMENTS OUTLINED IN THE GEOTECHNICAL REPORT ARE READ AND UNDERSTOOD PRIOR TO COMMENCING WITH FOUNDATION WORK.
5. INSTALLATION OF PILES SHALL BE UNDER THE DIRECT SUPERVISION OF A GEOTECHNICAL ENGINEER. PROVIDE AN ACCURATE REPORT AT COMPLETION OF WORK WITH ALL PILE LOGS. FINAL REPORT SHALL BE SIGNED AND SEALED BY THE ENGINEER SUPERVISING THE INSTALLATION. PROVIDE SCHEDULES A,B, AND C AS REQUIRED TO LOCAL AUTHORITIES AND COPIES TO ENGINEER OF RECORD.
6. UNLESS NOTED OTHERWISE PROVIDE A MINIMUM OF 4-15M DOWELS x 1200mm LONG FROM PILES TO GRADE BEAMS ABOVE.
7. TIE ALL DOWELS AND ANCHOR BOLTS IN PLACE BEFORE POURING CONCRETE USE TEMPLATES TO ENSURE CORRECT PLACEMENT. NO WET SETTING ALLOWED.
8. PILES SHALL BE PLACED WITH THE FOLLOWING TOLERANCES:
   * NOT MORE THAN 1% OF ITS LENGTH OUT OF PLUMB VERTICALLY.
   * NOT MORE THAN 1/2" (6mm) OFF CENTER AT THE TOP.
12. PROVIDE CASING AS REQUIRED.
13. FOR ADDITIONAL NOTES AND REQUIREMENTS SEE SPECIFICATIONS.
14. VERIFY AND MARK ALL UNDERGROUND LINES AND RE-ENSURE THAT NEW PILE LOCATIONS DO NOT INTERFERE WITH ANY UNDERGROUND UTILITY LINES.

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ARCHITECTS AND PLANNERS

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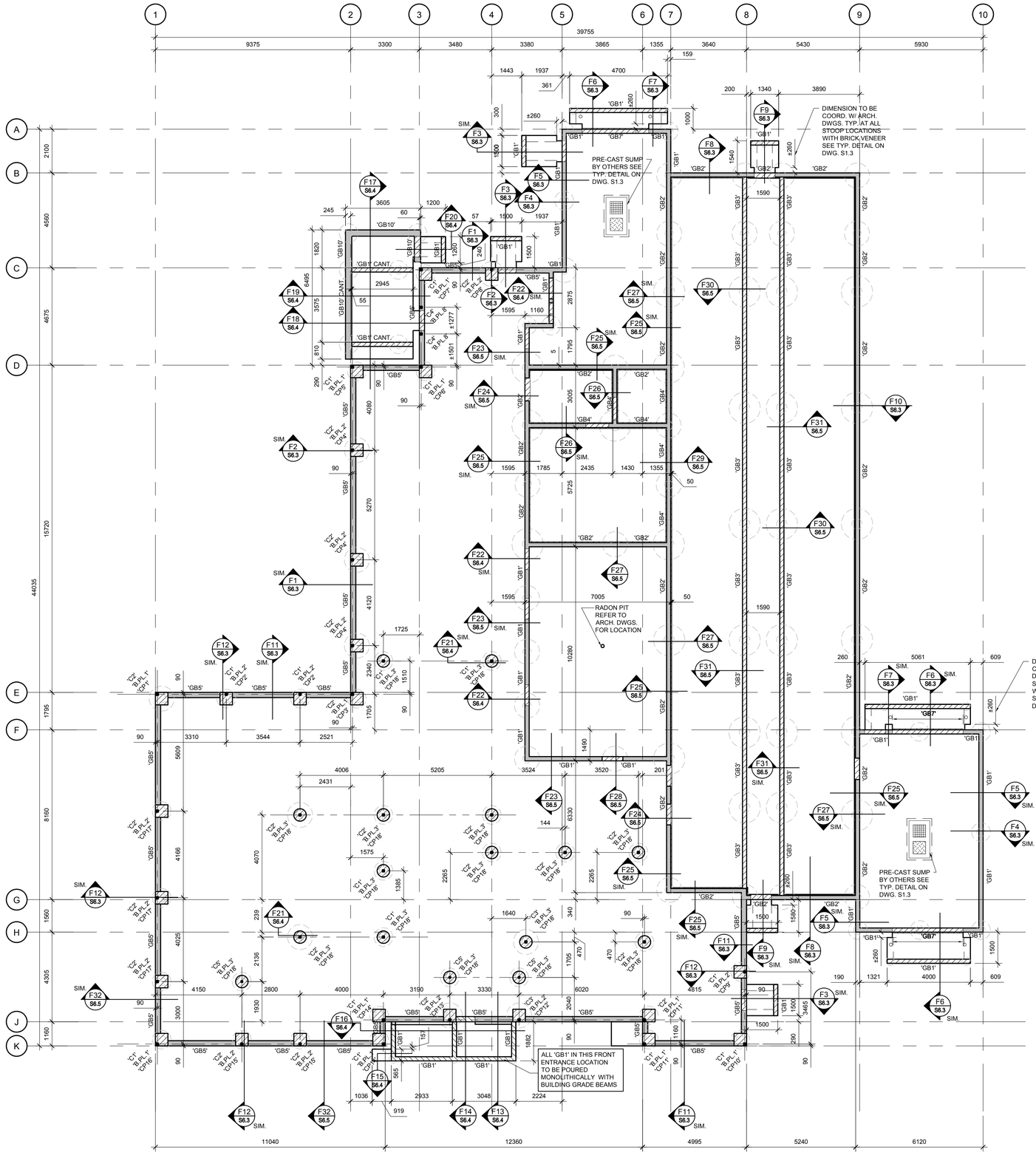
Drawing Title

PILE LAYOUT PLAN

Drawing No.

S2.1



FOUNDATION PLAN

SCALE: 1:100

1. SEE DRAWINGS S1.1 TO S1.6 FOR GENERAL NOTES, TYPICAL DETAILS & SCHEDULES.
2. LEAVE GRADE BEAM FORMS INTACT UNTIL CONCRETE HAS REACHED 70% OF ITS SPECIFIED STRENGTH.
3. PROVIDE BLOCKOUT IN GRADE BEAMS AT DOORWAYS TYP. SHOWN ON PLAN AS THUS:
4. ENSURE ALL GRADE BEAMS ARE TEMPORARILY BRACED AND LATERALLY SUPPORTED.
5. UNLESS NOTED OTHERWISE PROVIDE A MINIMUM OF 4-15M DOWELS x 1200mm LONG FROM PILES TO GRADE BEAMS ABOVE.
6. PROTECT SUBGRADE FROM FREEZING BEFORE, DURING AND AFTER SLAB ON GRADE IS POURED. PROVIDE ADEQUATE PROTECTION TO MAINTAIN SUBGRADE TEMPERATURE ABOVE 5°C.
7. STORM LINES TO BE SLEEVED THROUGH THE GRADE BEAM AS REQUIRED.
8. FOR COLUMN BASE PLATE DETAILS, SEE DRAWING S6.1.

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

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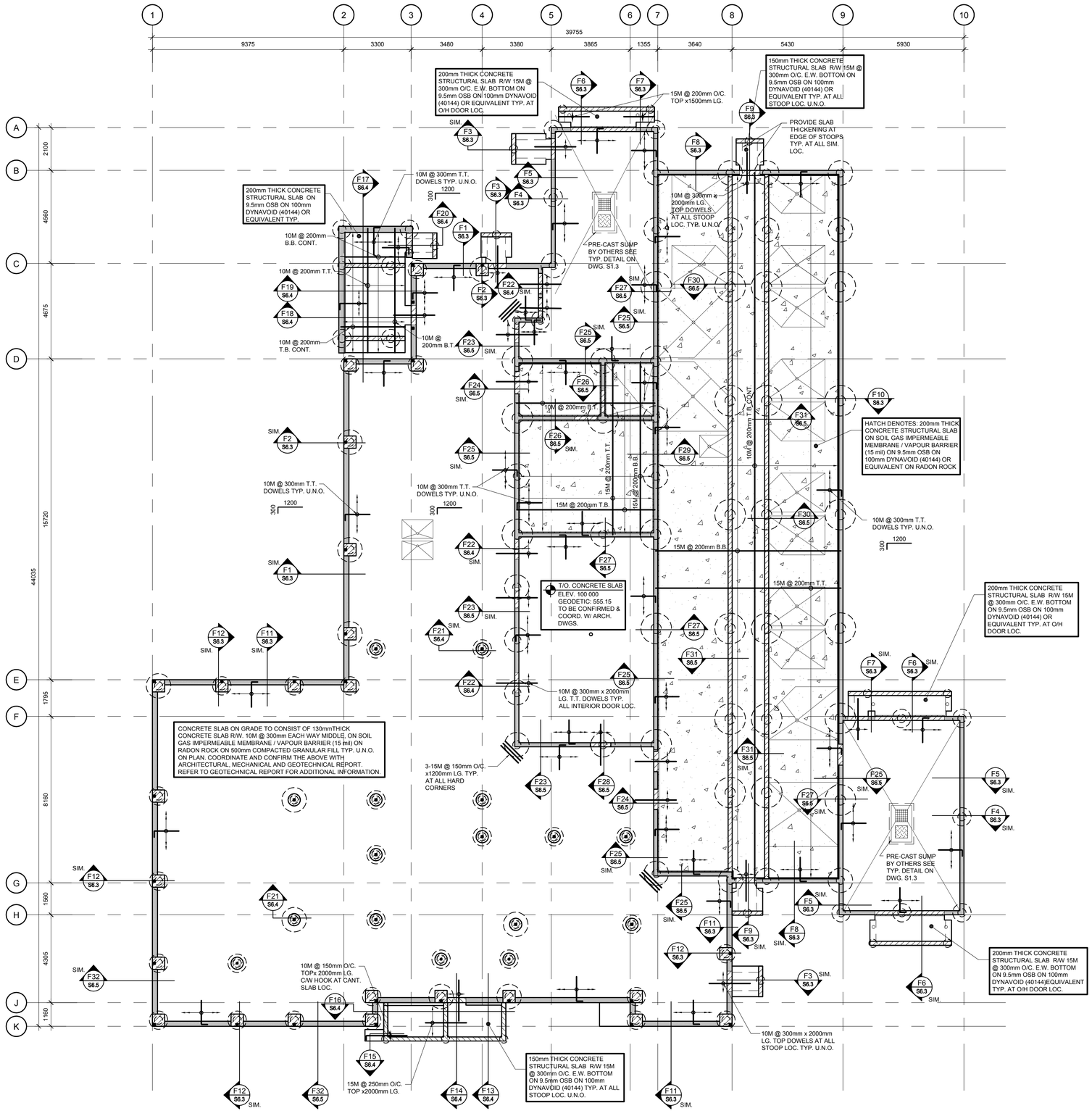
Drawing Title

FOUNDATION PLAN

Drawing No.

S3.1



MAIN FLOOR SLAB PLAN

SCALE: 1:100

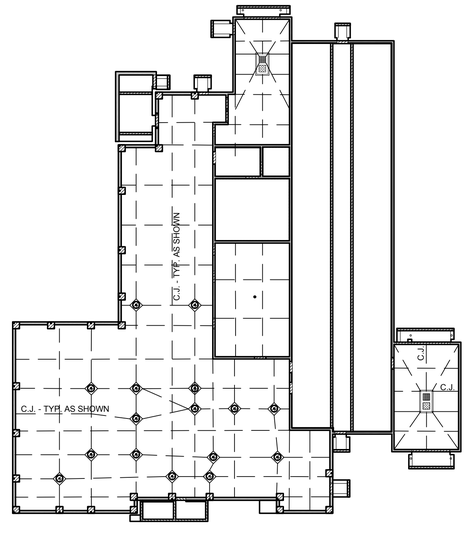
1. SEE DRAWINGS S1.1 TO S1.6 FOR GENERAL NOTES, TYPICAL DETAILS & SCHEDULES.
2. T/O CONC. SLAB ELEV. U.N.O. ON PLAN AS THUS: T/O. CONC. SLAB ELEV. XXX XXX
3. LEAVE GRADE BEAM FORMS INTACT UNTIL CONCRETE HAS REACHED 70% OF ITS SPECIFIED STRENGTH.
4. SLOPE SLAB TO DRAINS AS PER ARCHITECTURAL AND MECHANICAL DRAWINGS. MAINTAIN FULL SLAB THICKNESS THROUGHOUT.
5. SEE PLAN FOR STRUCTURAL SLAB THICKNESS AND REINFORCEMENT.
6. SEE PLAN FOR SLAB ON GRADE THICKNESS AND REINFORCEMENT.
7. FOR FLOOR CURBS, TRENCHES AND MISCELLANEOUS DETAILS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS. FOR LOCATION OF ALL SIDEWALKS AND / OR CONCRETE STOOPS SEE ARCHITECTURAL DRAWINGS.
8. PROVIDE BLOCKOUT IN GRADE BEAMS AT DOORWAYS TYP. SHOWN ON PLAN AS THUS:
9. ENSURE ALL GRADE BEAMS ARE TEMPORARILY BRACED AND LATERALLY SUPPORTED.
10. UNLESS NOTED OTHERWISE PROVIDE A MINIMUM OF 4-15M DOWELS x 1200mm LONG FROM PILES TO GRADE BEAMS ABOVE.
11. PROVIDE A FULL TENSION SPLICE AT ALL LAPS IN SLAB REBAR.
12. REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATIONS OF SLAB DEPRESSIONS. MAINTAIN FULL SLAB THICKNESS THROUGHOUT.
13. PROTECT SUBGRADE FROM WEATHER ELEMENTS BEFORE, DURING AND AFTER SLAB ON GRADE IS POURED. PROVIDE ADEQUATE PROTECTION TO MAINTAIN SUBGRADE TEMPERATURE ABOVE 5°C.

IMPORTANT NOTE

- SAW CUTS ARE NOT TO BE PLACED IN STRUCTURAL SLABS.

SUBGRADE / SUB-BASE PREPARATION FOR GRADE SUPPORTED FLOOR SLABS

1. PREPARATION / PROTECTION OF SUBGRADE / SUB-BASE IS NOT PART OF P.E.C.'S SCOPE OF WORK AND AS SUCH THE CONTRACTOR SHALL REVIEW AND FOLLOW THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT. PREPARATION OF THE SUB-GRADE / SUB-BASE AND NEW FILL REQUIREMENTS SHALL BE REVIEWED ANDAPPROVED BY A GEOTECHNICAL ENGINEER WITHIN 24 HOURS PRIOR TO POURING CONCRETE.
2. REMOVE ALL ORGANIC TOPSOIL, FILL AND OTHER DELETERIOUS MATERIAL FROM THE BUILDING SLAB AREA.DEPTHS OF TOP SOIL AND FILL MAY VARY THROUGHOUT THE SITE GEOTECHNICAL ENGINEER TO REVIEW AND ADVISE.
3. FOLLOWING THE SUBCUTTING OF THE ORGANIC TOPSOIL AND FILL LAYERS, THE GRADE SHALL BE COMPACTED AND ANY SOFT SOILS BE IDENTIFIED AND ROLL PROOFED PRIOR TO PLACEMENT OF THE NEW BACKFILL. GEOTECHNICAL ENGINEER TO ADVISE CONTRACTOR ACCORDINGLY.
4. NEW ENGINEERED FILL SHALL BE COMPACTED AS PER THE GEOTECHNICAL REPORT. FILL MATERIAL SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER.
5. PROVIDE 15 mil ON SOIL GAS IMPERMEABLE MEMBRANE / VAPOUR BARRIER WITH TAPED JOINTS TO THE UNDERSIDE OF SLAB ON GRADE. LAP ALL JOINTS 8" MIN.
6. PROTECT SUBGRADE FROM WEATHER ELEMENTS BEFORE, DURING AND AFTER SLAB ON GRADE IS POURED. PROVIDE ADEQUATE PROTECTION TO MAINTAIN SUBGRADE TEMPERATURE ABOVE 5°C.
7. SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.



CONTROL JOINT LAYOUT PLAN

SCALE: 1:100

1. SEE DRAWINGS S1.1 TO S1.6 FOR GENERAL NOTES, TYPICAL DETAILS & SCHEDULES.
2. C.J. ON PLAN INDICATES CONTROL JOINT. FILL THE JOINTS WITH A WATER PROOF SIKA SEALANT SUCH AS SIKA FLEX 2C SL OR EQUIVALENT. CONTROL JOINTS ARE NOT TO BE PLACED IN STRUCTURAL SLABS. VERIFY WITH ARCH. DWGS. FOR TILE FLOOR LAYOUT PATTERNS BEFORE COMMENCING WITH WORK.

IMPORTANT NOTE

- SAW CUTS ARE NOT TO BE PLACED IN STRUCTURAL SLABS.

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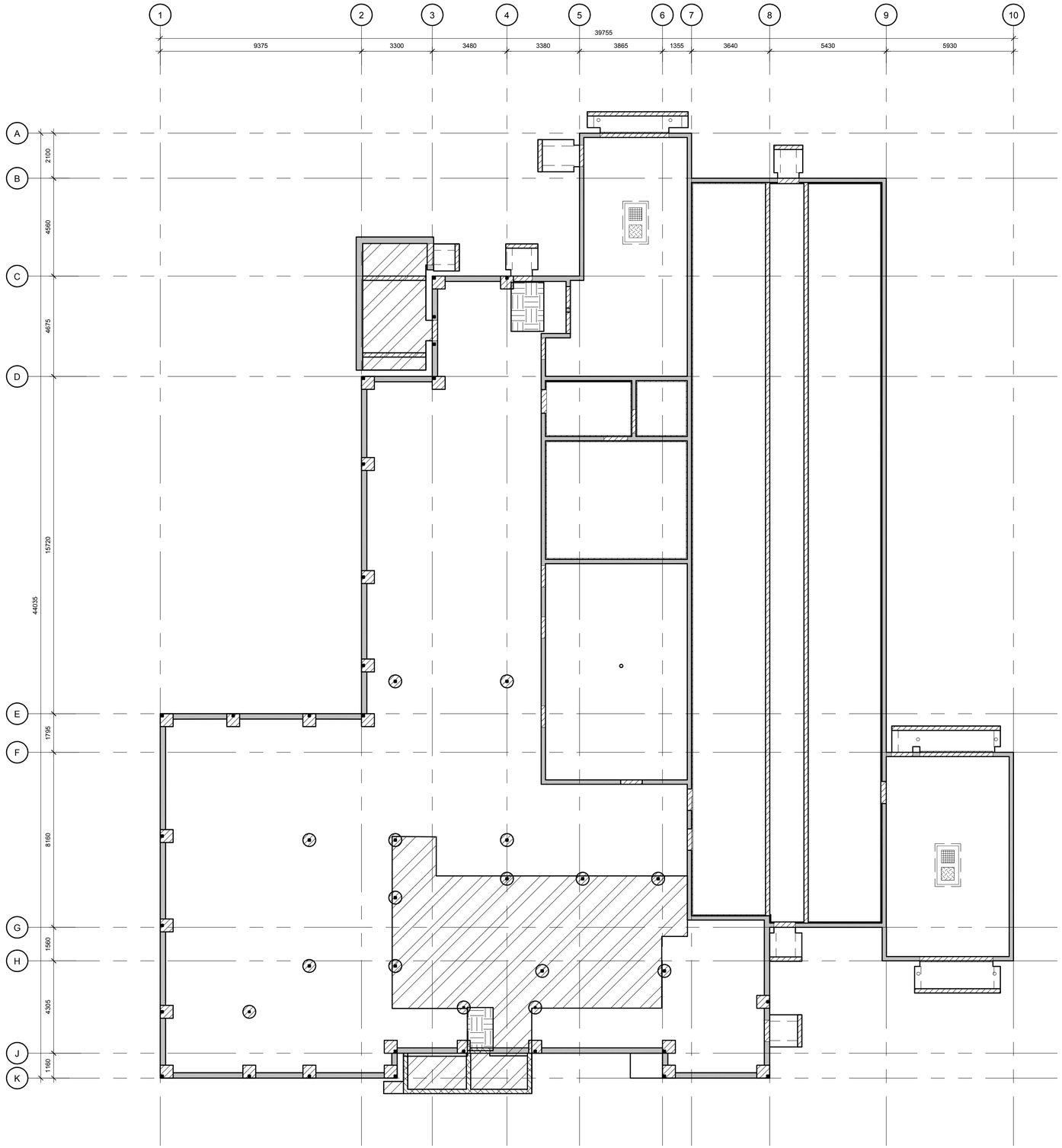
Drawing Title

MAIN FLOOR SLAB & CONTROL JOINT LAYOUT PLAN

Drawing No.

S3.2



MAIN FLOOR SLAB ELEVATION PLAN

SCALE: 1:100

1. SEE DRAWINGS S1.1 TO S1.6 FOR GENERAL NOTES, TYPICAL DETAILS & SCHEDULES.
2. SEE MAIN FLOOR SLAB PLAN NOTES ON DRAWING S1.2.
3. CONFIRM ALL EXTENTS, LOCATIONS AND DEPTHS OF RECESSED SLABS WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCING WITH WORK.
4. SLOPE SLAB TO DRAINS AS PER ARCHITECTURAL AND MECHANICAL DRAWINGS. MAINTAIN FULL SLAB THICKNESS THROUGHOUT.

LEGEND

TYPE	DESCRIPTION
	ELEVATION OF 100'-0" (SEE ARCH. DWGS. FOR GEODETIC)
	±75mm RECESSED SLAB T/O SLAB= 99 925
	±10mm RECESSED SLAB T/O SLAB= 99 990

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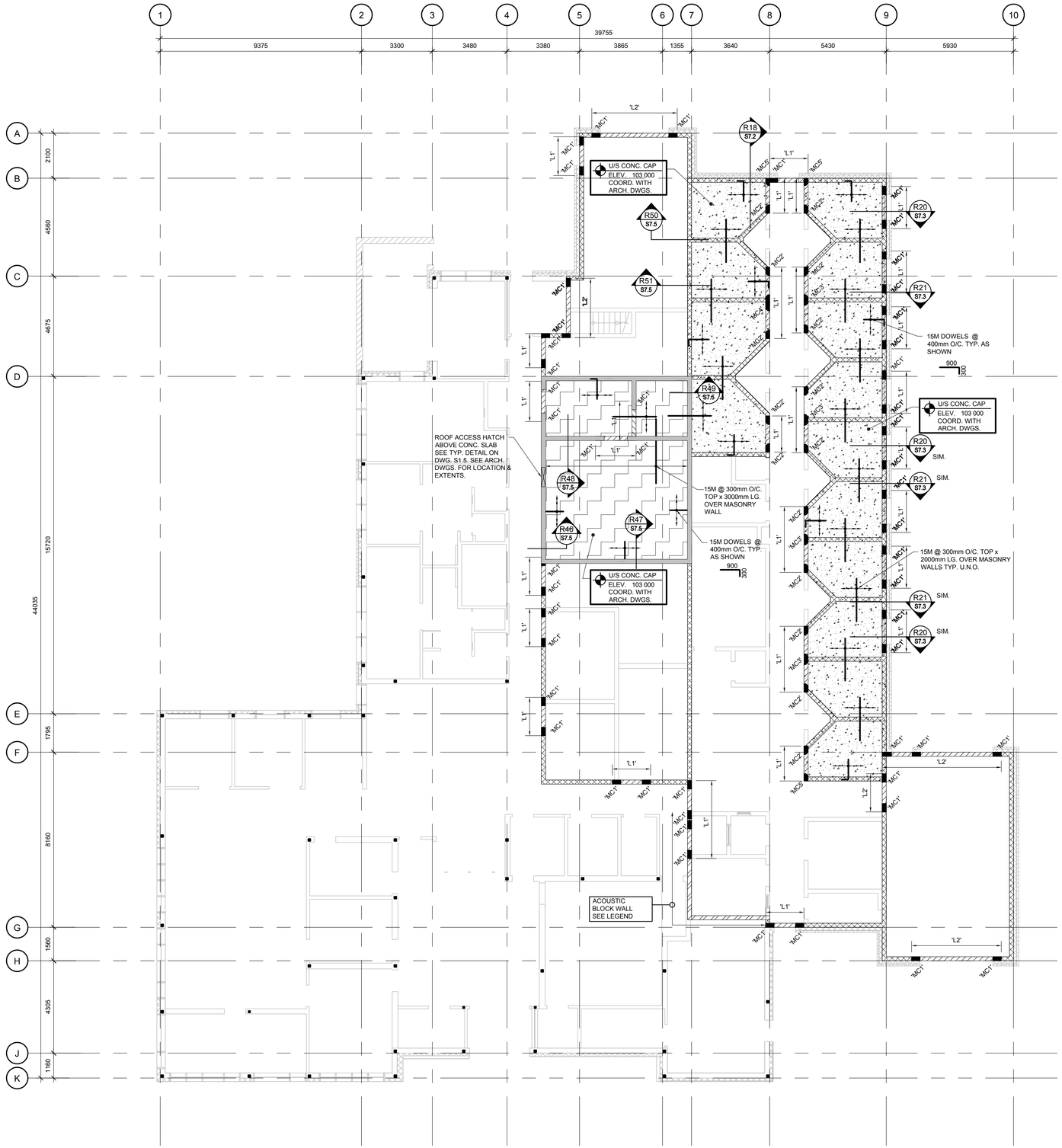
Drawing Title

MAIN FLOOR SLAB ELEVATION PLAN

Drawing No.

S3.3



CONCRETE CAP PLAN& MASONRY REINFORCEMENT PLAN

SCALE: 1:100

1. SEE DRAWINGS S1.1 TO S1.6 FOR GENERAL NOTES, TYPICAL DETAILS & SCHEDULES.
2. U/S CONC. CAP ELEV. U.N.O. ON PLAN AS THUS:

   U/S. CONC. CAP
   ELEV. XXX XXX
3. SEE ARCHITECTURAL DRAWINGS FOR EXTENTS/LOCATIONS OF WALLS.
4. SEE DRAWING S1.6 FOR LINTEL AND COLUMN SCHEDULES.
5. SLOPE SLABS TO DRAINS AS PER ARCHITECTURAL AND MECHANICAL DRAWINGS. MAINTAIN FULL SLAB THICKNESS THROUGHOUT.
6. ALLOW FOR ADDITIONAL WEIGHTS DUE TO MECHANICAL UNITS. CONTRACTOR TO VERIFY QUANTITY, LOCATIONS, WEIGHTS AND SIZES OF ALL MECHANICAL UNITS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION.

SECURITY BLOCK MASONRY WALL REQUIREMENTS

1. UNLESS NOTED OTHERWISE, INSTALL 1-15M VERTICAL REBAR FROM MAIN FLOOR SLAB TO CEILING IN THE FIRST VOID OF THE WALL OPENING ON EACH SIDE OF THE DOOR.
2. UNLESS NOTED OTHERWISE, INSTALL 1-15M HORIZONTAL REBAR IN ALL LINTEL BLOCKS. THE BAR MUST BE BENT TO ENGAGE THE BLOCKS TO EACH SIDE OF THE DOOR OPENING A MINIMUM VERTICAL DISTANCE OF 450mm.
3. TIE THE HORIZONTAL AND VERTICAL REBARS TOGETHER.
4. FULLY GROUT WALLS WITH HIGH STRENGTH GROUT (30 MPa) FOR A DISTANCE OF 450mm AROUND THE PERIMETER OF THE DETENTION OPENINGS. GROUT MUST ALSO BE USED TO FILL ANY VOIDS CONTAINING REBAR.
5. FILL THE WALL VOIDS ADJACENT TO THE LINTEL AND DIRECTLY BEHIND THE HANGER TRACK ASSEMBLY OF SLIDING DETENTION DOORS WITH GROUT.

- CONTRACTOR TO COORDINATE ALL LATEST REQUIREMENTS WITH OWNER PROJECT MANUALS.
- ADVISE ENGINEER ON RECORD OF ANY DISCREPENCIES PRIOR TO INSTALLATION.
- THE REBARS MUST BE POSITIONED TO AVOID CONFLICT WITH CELL DOOR INSTALLATION HARDWARE.

CONCRETE CEILING LEGEND

TYPE	REMARKS
	150mm CONCRETE STRUCTURAL SLAB R/W. 10M @ 200mm EACH WAY BOTTOM
	200mm CONCRETE STRUCTURAL SLAB R/W. 15M @ 200mm EACH WAY BOTTOM

MASONRY WALL REINFORCEMENT LEGEND

TYPE	REMARKS
	10M REBAR VERT. IN EACH MASONRY CORE. GROUT ALL CORES SOLID.
	15M @ 600mm VERT. GROUT CORES WITH REINF. SOLID
	15M @ 600mm VERT. GROUT ALL CORES SOLID (AT ACOUSTIC BLOCK WALLS- SEE ARCH. DWGS. FOR EXTENTS AND LOC.)

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

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-
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Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	APRIL 27, 2017	KM
2	ISSUED FOR PROGRESS	JUNE 15, 2017	KM
3	ISSUED FOR 95% REVIEW	AUGUST 8, 2017	KM
4	ISSUED FOR TENDER	SEPT. 12, 2017	KM

Seal

Client

Government of Canada / Gouvernement du Canada
Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

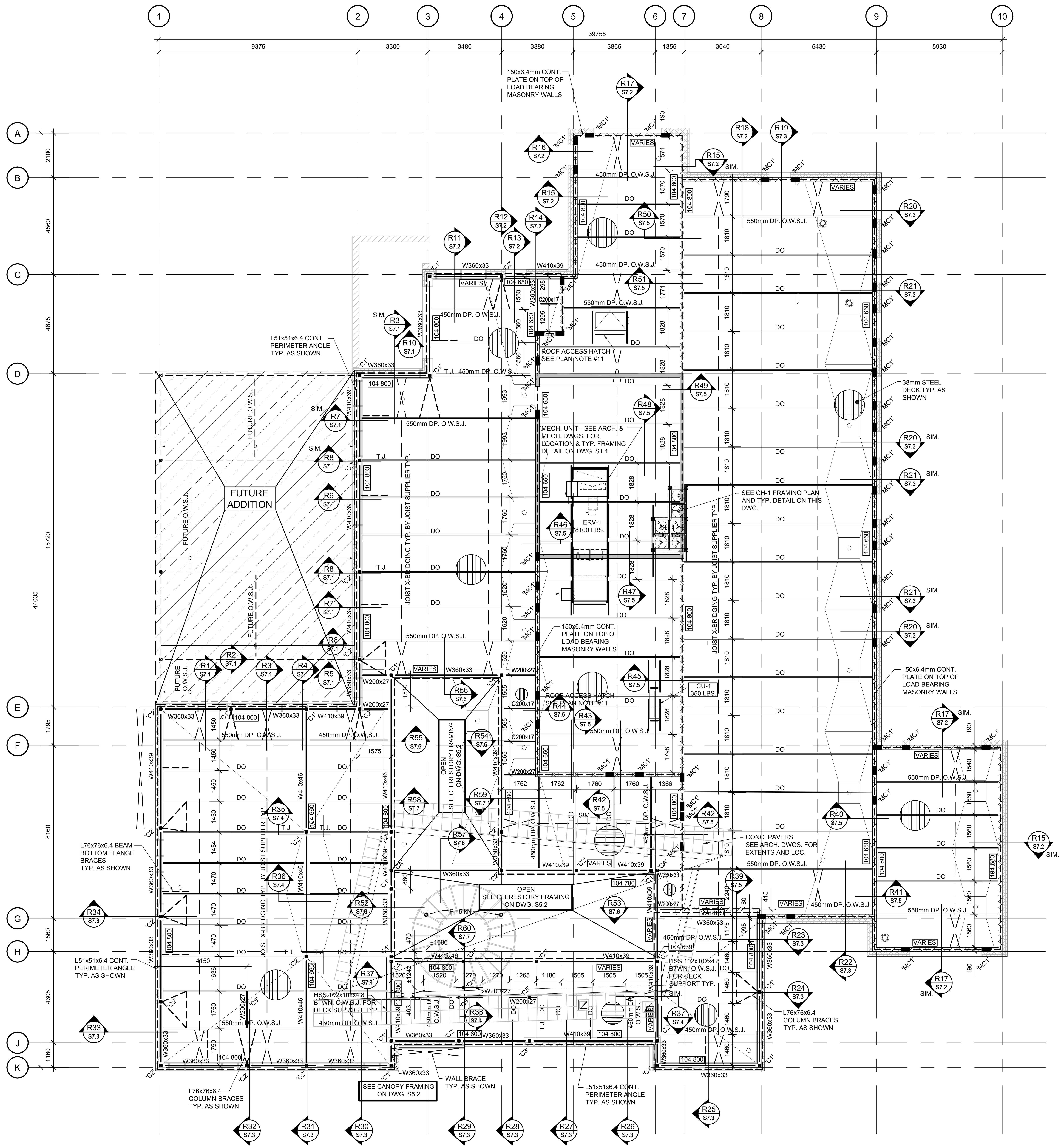
Scale	AS SHOWN	Designed By	HL/LADM
Project No.	16-4314	Drawn By	KM
Date	SEPT. 12, 2017	Checked By	LADM

Drawing Title

CONCRETE CAP PLAN AND MASONRY WALL REINFORCEMENT PLAN

Drawing No.

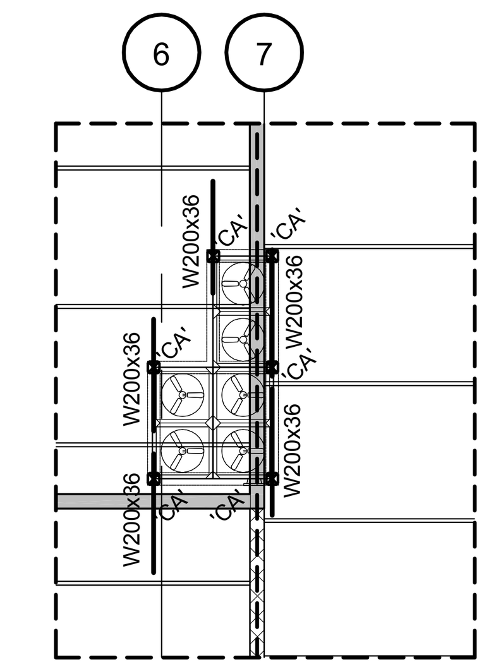
S4.1



ROOF FRAMING PLAN

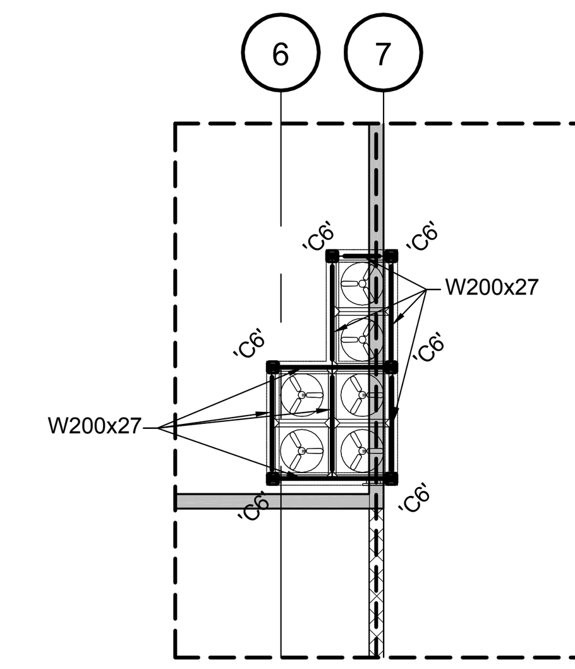
SCALE: 1:100

1. SEE DRAWINGS S1.1 TO S1.6 FOR GENERAL NOTES, TYPICAL DETAILS & SCHEDULES.
2. REFER TO GENERAL NOTES FOR ROOF DESIGN LOADS.
3. U/S STEEL DECK IS NOTED ON PLAN AS THUS: XXX XXX
4. ROOF DECK SHALL CONSIST OF 38mm STEEL DECK U.N.O ON DRAWINGS. ACTUAL DECK THICKNESS AND PROFILE TO BE DESIGNED BY THE DECK SUPPLIER. SEE GENERAL NOTES AND SPECIFICATIONS FOR MORE INFORMATION.
5. EXTEND JOIST BRIDGING TO END BAYS.
6. UNLESS NOTED OTHERWISE ON PLAN, WALL BRACE SHOWN ON PLAN THUS: SHALL CONSIST OF HSS 127x127x6.4 WELDED ALL AROUND TYP.U.N.O.
7. HEADERS HAVE BEEN DESIGNED FOR L/240 DEFLECTION. WINDOW SUPPLIER TO BE ADVISED ACCORDINGLY AND MAKE ALLOWANCE FOR HEADER DEFLECTION.
8. EXTEND ALL NO-LOAD BEARING AND LOAD BEARING MASONRY BLOCK WALLS TO U/S OF STEEL DECK. PROVIDE LATERAL SUPPORT AT TOP OF ALL SUCH WALLS. REVIEW WITH THE ENGINEER OF RECORD.
9. PROVIDE 16mm SAG RODS @ 1800mm O/C MAX. TYP. ALL HEADERS ABOVE WINDOWS / GIRTS UNLESS NOTED OTHERWISE ON DRAWINGS.
10. ALL HEADERS TO COME WITH 10mm CAP PLATES AND TO BE WELDED ALL AROUND TO STEEL SUPPORTS ON EACH END.
11. FRAME ROOF ACCESS HATCH WITH C200x17. FOR LOCATION SEE ARCH. DRAWINGS.
12. ALLOW FOR ADDITIONAL WEIGHTS DUE TO MECHANICAL UNITS AND ASSOCIATED SNOW PILING. CONTRACTOR TO VERIFY QUANTITY, LOCATIONS, WEIGHTS AND SIZES OF ALL MECHANICAL UNITS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION.
13. SLOPE STRUCTURE / INSULATION TO DRAIN. ENSURE DRAINS REMAIN CLEAN FROM DEBRIS AND/OR ICE WHILE IN USE. ADD ADEQUATE No. OF OVER FLOW DRAINS. MAINTENANCE OF DRAINS SHALL BE MAINTAINED FOR THE LIFE OF THE STRUCTURE.
14. EXACT LOCATION AND WEIGHTS OF ROOF RTU'S AND / OR ANY OTHER ADDITIONAL LOADS ON THE ROOF STRUCTURE SHALL BE COORDINATED AND CONFIRMED BY THE GENERAL CONTRACTOR PRIOR TO COMMENCING WITH WORK AND PRIOR TO PREPARATION OF STEEL JOISTS AND DECK SHOP DRAWINGS.
15. FRAME OPENINGS IN STEEL DECK GREATER THAN 450mm WITH C100x9 ALL AROUND UNLESS NOTED OTHERWISE ON DRAWINGS, SEE TYPICAL DETAIL. FOR OPENING LESS THAN 450mm REINFORCE STEEL DECK WITH L76x76x6.4, SEE TYPICAL DETAIL.



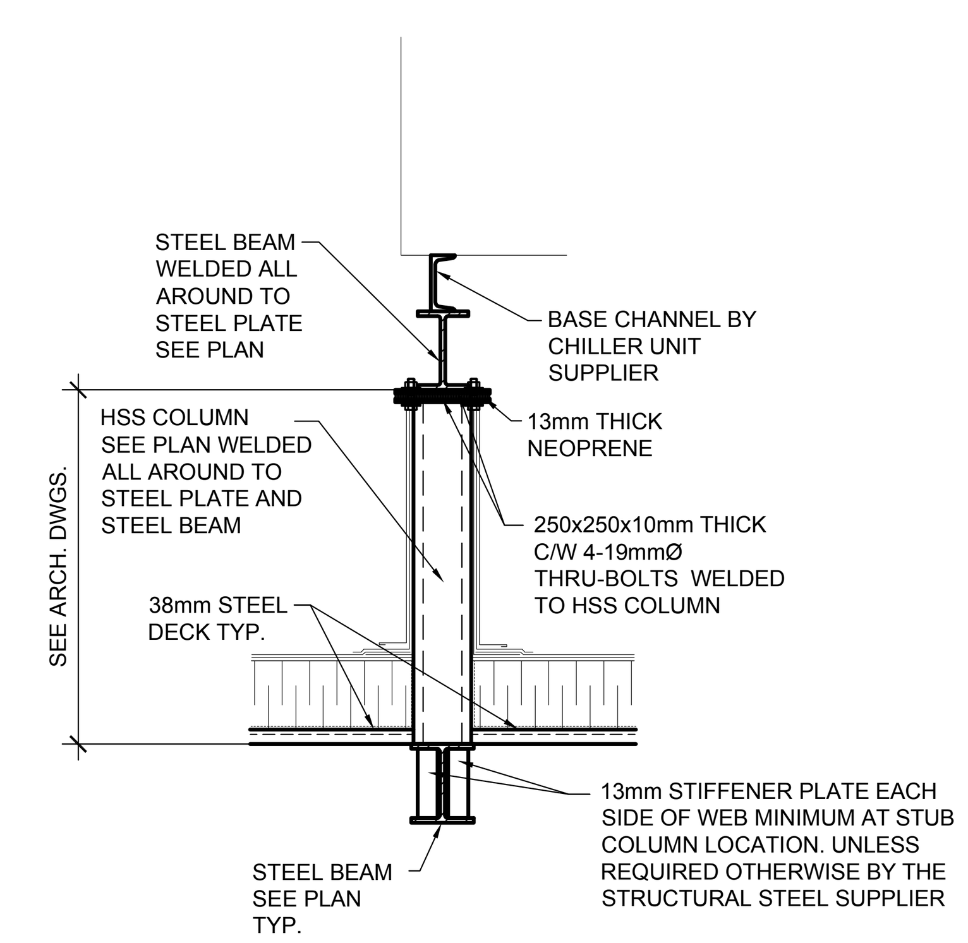
CH-1 CHILLER FRAMING PLAN (UNDER DECK)

SCALE 1:100



CH-1 CHILLER FRAMING PLAN (ABOVE DECK)

SCALE 1:100



TYPICAL CHILLER SUPPORT DETAIL

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

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4	ISSUED FOR TENDER	SEPT. 12, 2017	KM

Seal

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

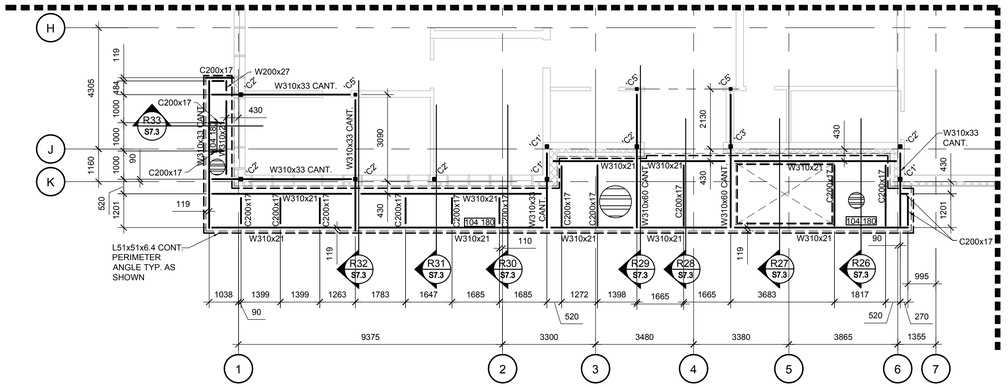
Scale	AS SHOWN	Designed By	HL/LADM
Project No.	16-4314	Drawn By	KM
Date	SEPT. 12, 2017	Checked By	LADM

Drawing Title

ROOF FRAMING PLAN

Drawing No.

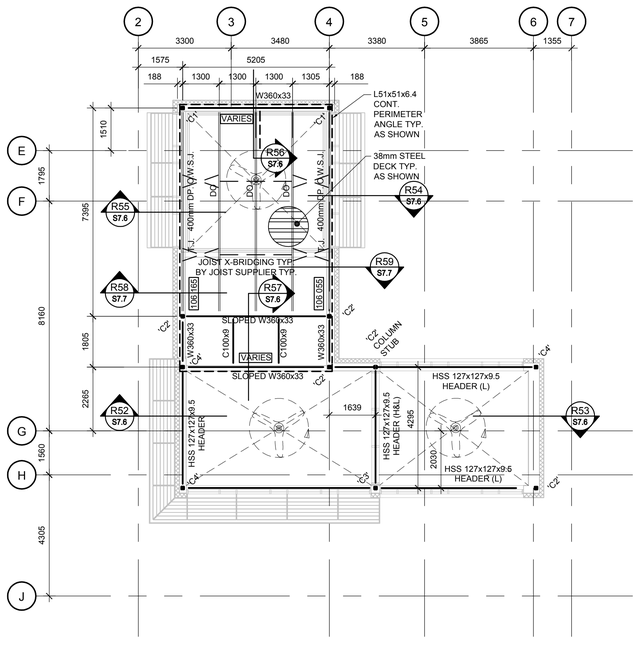
S5.1



CANOPY FRAMING PLAN

SCALE: 1:100

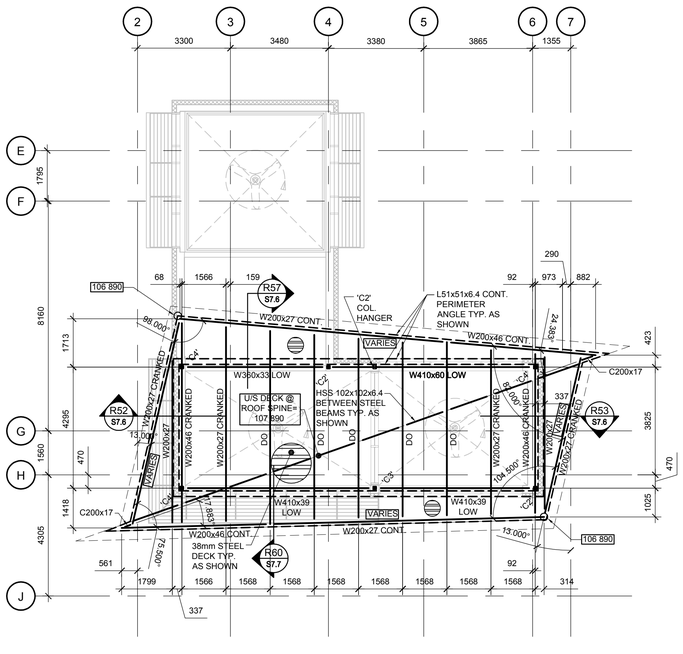
1. SEE DRAWINGS S1.1 TO S1.6 FOR GENERAL NOTES, TYPICAL DETAILS & SCHEDULES.
2. REFER TO GENERAL NOTES FOR ROOF DESIGN LOADS.
3. U/S STEEL DECK IS NOTED ON PLAN AS THUS: XXX XXX
4. ROOF DECK SHALL CONSIST OF 38mm STEEL DECK U.N.O ON DRAWINGS. ACTUAL DECK THICKNESS AND PROFILE TO BE DESIGNED BY THE DECK SUPPLIER. SEE GENERAL NOTES AND SPECIFICATIONS FOR MORE INFORMATION.
5. ALL HSS MEMBERS TO COME WITH 10mm CAP PLATES AND TO BE WELDED ALL AROUND TO STEEL SUPPORTS ON EACH END.
6. SLOPE STRUCTURE / INSULATION TO DRAIN. ENSURE DRAINS REMAIN CLEAN FROM DEBRIS AND/OR ICE WHILE IN USE. MAINTENANCE OF DRAINS SHALL BE MAINTAINED FOR THE LIFE OF THE STRUCTURE.
7. FRAME OPENINGS IN STEEL DECK GREATER THAN 450mm WITH C100x9 ALL AROUND UNLESS NOTED OTHERWISE ON DRAWINGS, SEE TYPICAL DETAIL. FOR OPENING LESS THAN 450mm REINFORCE STEEL DECK WITH L76x76x6.4, SEE TYPICAL DETAIL.



LOW CLERESTORY FRAMING PLAN

SCALE: 1:100

1. SEE DRAWINGS S1.1 TO S1.6 FOR GENERAL NOTES, TYPICAL DETAILS & SCHEDULES.
2. REFER TO GENERAL NOTES FOR ROOF DESIGN LOADS.
3. U/S STEEL DECK IS NOTED ON PLAN AS THUS: XXX XXX
4. ROOF DECK SHALL CONSIST OF 38mm STEEL DECK U.N.O ON DRAWINGS. ACTUAL DECK THICKNESS AND PROFILE TO BE DESIGNED BY THE DECK SUPPLIER. SEE GENERAL NOTES AND SPECIFICATIONS FOR MORE INFORMATION.
5. ALL HSS MEMBERS TO COME WITH 10mm CAP PLATES AND TO BE WELDED ALL AROUND TO STEEL SUPPORTS ON EACH END.
6. SLOPE STRUCTURE / INSULATION TO DRAIN. ENSURE DRAINS REMAIN CLEAN FROM DEBRIS AND/OR ICE WHILE IN USE. ADD ADEQUATE No. OF OVERFLOW DRAINS. MAINTENANCE OF DRAINS SHALL BE MAINTAINED FOR THE LIFE OF THE STRUCTURE.
7. FRAME OPENINGS IN STEEL DECK GREATER THAN 450mm WITH C100x9 ALL AROUND UNLESS NOTED OTHERWISE ON DRAWINGS, SEE TYPICAL DETAIL. FOR OPENING LESS THAN 450mm REINFORCE STEEL DECK WITH L76x76x6.4, SEE TYPICAL DETAIL.



HIGH CLERESTORY FRAMING PLAN

SCALE: 1:100

1. SEE DRAWINGS S1.1 TO S1.6 FOR GENERAL NOTES, TYPICAL DETAILS & SCHEDULES.
2. REFER TO GENERAL NOTES FOR ROOF DESIGN LOADS.
3. U/S STEEL DECK IS NOTED ON PLAN AS THUS: XXX XXX
CONFIRM WITH ARCH. DWGS. PRIOR TO FABRICATION
4. ROOF DECK SHALL CONSIST OF 38mm STEEL DECK U.N.O ON DRAWINGS. ACTUAL DECK THICKNESS AND PROFILE TO BE DESIGNED BY THE DECK SUPPLIER. SEE GENERAL NOTES AND SPECIFICATIONS FOR MORE INFORMATION.
5. ALL HSS MEMBERS TO COME WITH 10mm CAP PLATES AND TO BE WELDED ALL AROUND TO STEEL SUPPORTS ON EACH END.
6. SLOPE STRUCTURE / INSULATION TO DRAIN. ENSURE DRAINS REMAIN CLEAN FROM DEBRIS AND/OR ICE WHILE IN USE. MAINTENANCE OF DRAINS SHALL BE MAINTAINED FOR THE LIFE OF THE STRUCTURE.
7. FRAME OPENINGS IN STEEL DECK GREATER THAN 450mm WITH C100x9 ALL AROUND UNLESS NOTED OTHERWISE ON DRAWINGS, SEE TYPICAL DETAIL. FOR OPENING LESS THAN 450mm REINFORCE STEEL DECK WITH L76x76x6.4, SEE TYPICAL DETAIL.
8. ALL ANGLES TO BE COORDINATED WITH ARCH. DRAWINGS PRIOR TO COMMENCING WITH WORK.

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

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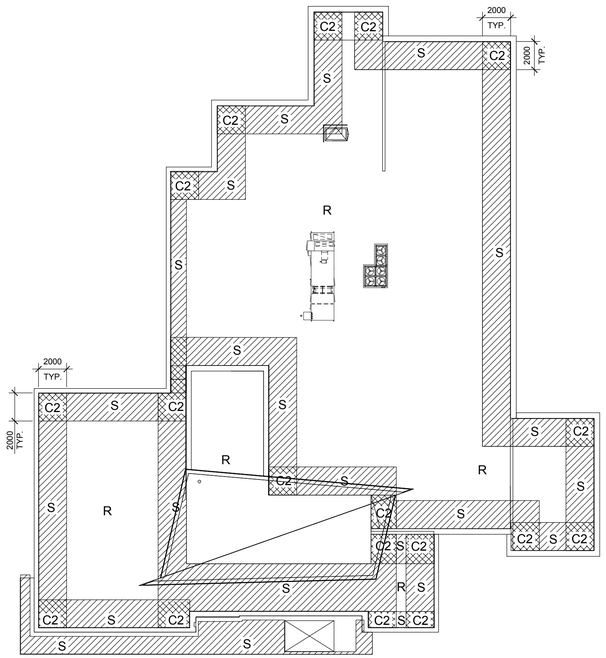
Scale	AS SHOWN	Designed By	HL/LADM
Project No.	16-4314	Drawn By	KM
Date	SEPT. 12, 2017	Checked By	LADM

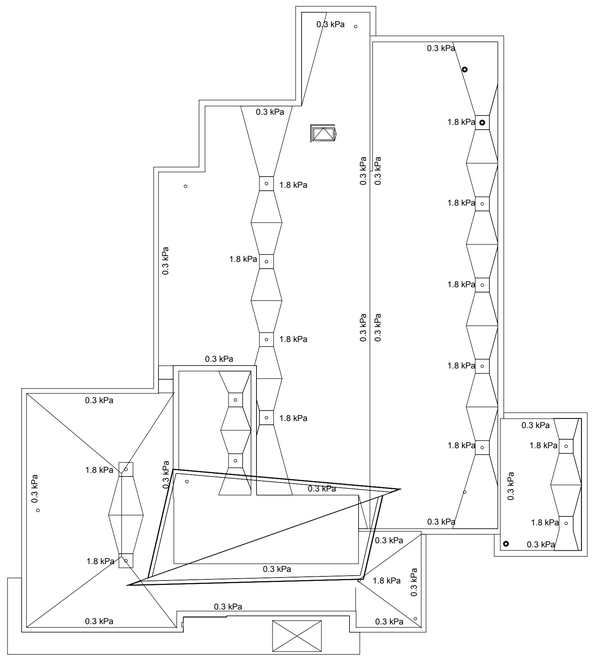
Drawing Title

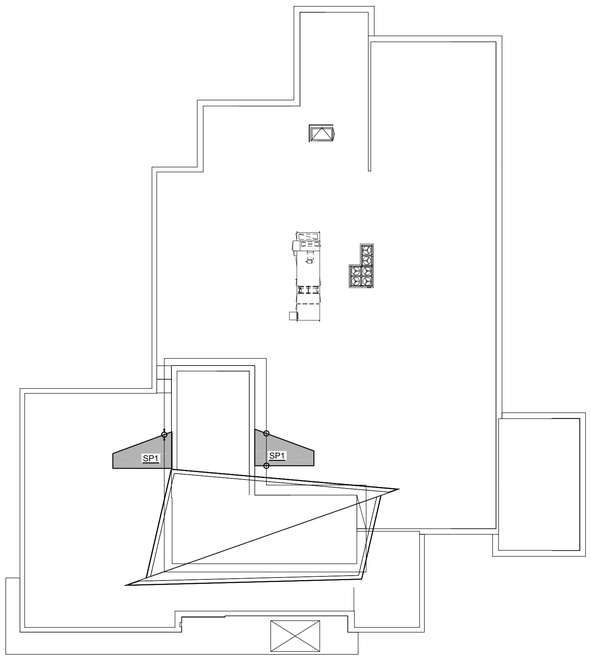
CANOPY & CLERESTORY FRAMING PLANS

Drawing No.

S5.2



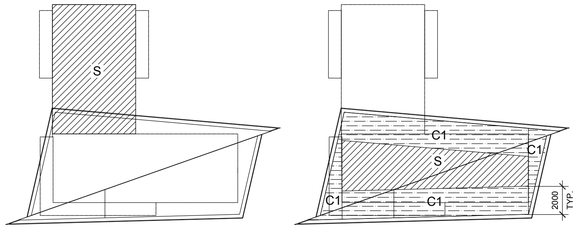




SNOW PILING PLAN
SCALE: 1:100

SNOW PILING-SP1

SNOW PILING-SP2
TYP. AROUND RTU
(NOT SHOWN ON PLAN FOR CLARITY)

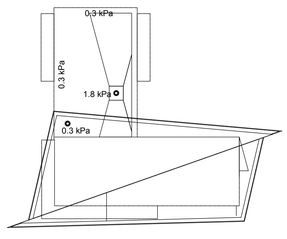


WIND UPLIFT PLAN
SCALE: 1:100

LOADS SHOWN ARE GROSS SERVICE LOADS
(IMPORTANT FACTOR NOT INCLUDED)

LEGEND

- C1= -1.5 kPa
- C2= -2.0 kPa
- S= -1.3 kPa
- R= -1.1 kPa



WATER PONDING PLAN
SCALE: 1:100

1. SLOPE STRUCTURE/INSULATION TO DRAIN. ENSURE DRAWINGS REMAIN CLEAN FROM DEBRIS AND/OR ICE WHILE IN USE. ADD ADEQUATE No. OF OVERFLOW DRAINS. MAINTENANCE OF DRAINS SHALL BE MAINTAINED FOR THE LIFE OF THE STRUCTURE.

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

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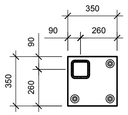
Scale	AS SHOWN	Designed By	HL/LADM
Project No.	16-4314	Drawn By	KM
Date	SEPT. 12, 2017	Checked By	LADM

Drawing Title

SNOW PILING, WIND UPLIFT & WATER PONDING PLAN

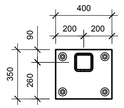
Drawing No.

S5.3



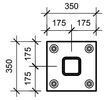
BASE PLATE DETAIL 1 ('B.PL.1')

350mmx350mmx19mm BASE PLATE C/W. 3-19mmØ A. BOLTS ON 25mm EXPANDABLE NON-SHRINK GROUT. USE 32mm ANCHOR BOLTS AND 32mm THICK BASE PLATES AT BRACE BAYS. WELD STEEL COLUMNS ALL THE WAY AROUND TO BASE PLATES TYP. ALL LOCATIONS.



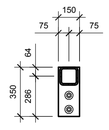
BASE PLATE DETAIL 2 ('B.PL.2')

350mmx400mmx19mm BASE PLATE C/W. 4-19mmØ A. BOLTS ON 25mm EXPANDABLE NON-SHRINK GROUT. USE 32mm ANCHOR BOLTS AND 32mm THICK BASE PLATES AT BRACE BAYS. WELD STEEL COLUMNS ALL THE WAY AROUND TO BASE PLATES TYP. ALL LOCATIONS.



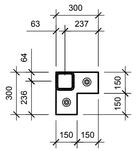
BASE PLATE DETAIL 3 ('B.PL.3')

350mmx350mmx19mm BASE PLATE C/W. 4-19mmØ A. BOLTS ON 25mm EXPANDABLE NON-SHRINK GROUT. USE 32mm ANCHOR BOLTS AND 32mm THICK BASE PLATES AT BRACE BAYS. WELD STEEL COLUMNS ALL THE WAY AROUND TO BASE PLATES TYP. ALL LOCATIONS.



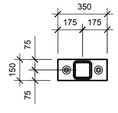
BASE PLATE DETAIL 4 ('B.PL.4')

350mmx150mmx19mm BASE PLATE C/W. 2-19mmØ A. BOLTS ON 25mm EXPANDABLE NON-SHRINK GROUT. WELD STEEL COLUMNS ALL THE WAY AROUND TO BASE PLATES TYP. ALL LOCATIONS.



BASE PLATE DETAIL 5 ('B.PL.5')

19mm BASE PLATE C/W. 2-19mmØ A. BOLTS ON 25mm EXPANDABLE NON-SHRINK GROUT. WELD STEEL COLUMNS ALL THE WAY AROUND TO BASE PLATES TYP. ALL LOCATIONS.

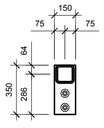


BASE PLATE DETAIL 6 ('B.PL.6')

350mmx150mmx19mm BASE PLATE C/W. 2-19mmØ A. BOLTS ON 25mm EXPANDABLE NON-SHRINK GROUT. WELD STEEL COLUMNS ALL THE WAY AROUND TO BASE PLATES TYP. ALL LOCATIONS.

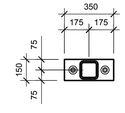
BASE PLATE DETAIL 7 ('B.PL.7')

L203xL203x13.0x 100mm LG. C/W. 2- KWIK BOLT 3 C/W HILTI HIT HY200 ADHESIVE ON 25mm NON-SHRINK GROUT. PROVIDE 140mm EMBED. WELD C-CHANNEL TO STEEL ANGLE TYP. ALL SIM. LOC.



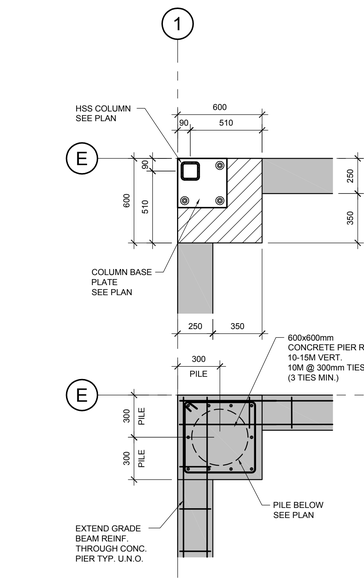
BASE PLATE DETAIL 8 ('B.PL.8')

350mmx150mmx13mm BASE PLATE C/W. 2-16mmØ HILTI KWIK BOLT C/W HILTI HIT HY200 ADHESIVE ON 25mm NON-SHRINK GROUT. PROVIDE 400mm EMBED.



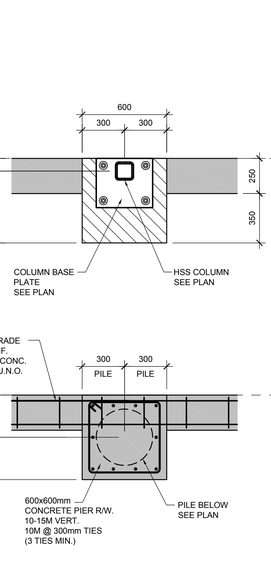
BASE PLATE DETAIL 9 ('B.PL.9')

350mmx150mmx13mm BASE PLATE C/W. 2-16mmØ HILTI KWIK BOLT C/W HILTI HIT HY200 ADHESIVE ON 25mm NON-SHRINK GROUT. PROVIDE 400mm EMBED.



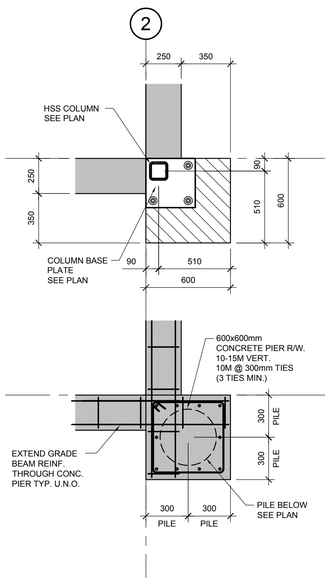
CONCRETE PIER DETAIL CP1

1:20 S3.1



CONCRETE PIER DETAIL CP2

1:20 S3.1



CONCRETE PIER DETAIL CP3

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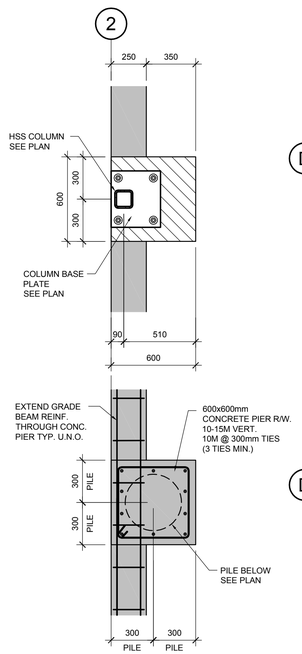

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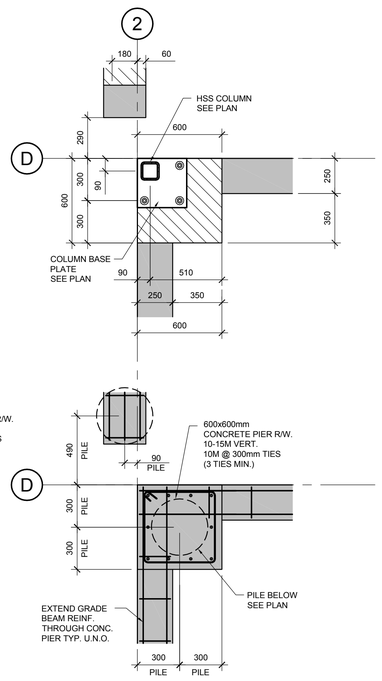
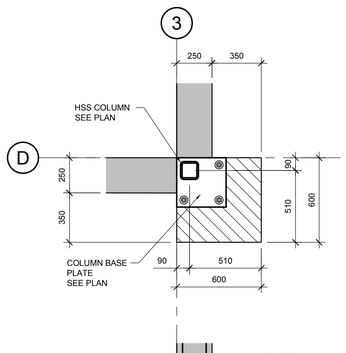


CONCRETE PIER DETAIL CP5

1:20 S3.1



CONCRETE PIER DETAIL CP6

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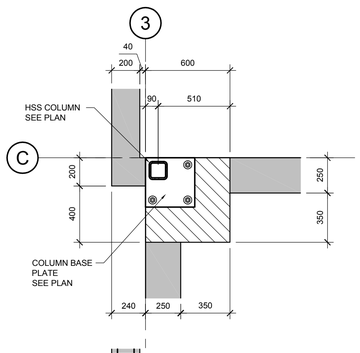

CONCRETE PIER DETAIL CP7

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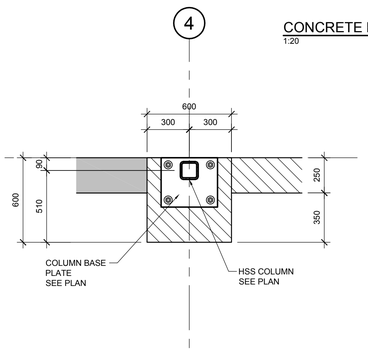

CONCRETE PIER DETAIL CP8

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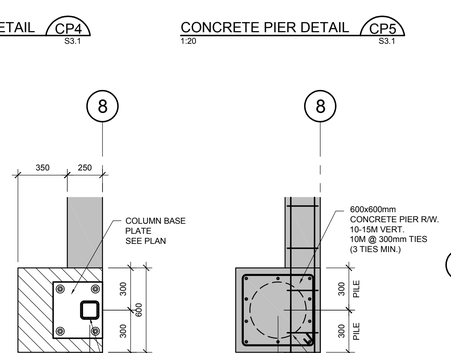

CONCRETE PIER DETAIL CP9

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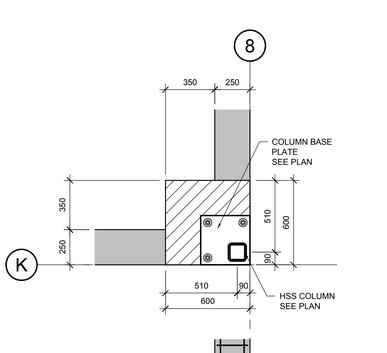
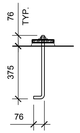
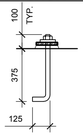


CONCRETE PIER DETAIL CP10

1:20 S3.1



19mmØ ANCHOR BOLT DETAIL



32mmØ ANCHOR BOLT DETAIL

USE 32mmØ ANCHOR BOLTS & 32mm THICK STEEL BASE PLATE @ ALL BRACE LOCATIONS

ANCHOR BOLT DETAILS

1. CONTRACTOR TO ENSURE BOLT LOCATIONS AND GRADE BEAM REINFORCEMENT DO NOT COINCIDE. COORDINATE PRIOR TO SUBMITTAL OF SHOP DRAWINGS.
2. CONTRACTOR TO ENSURE BOLT LOCATIONS THAT THE CENTER OF ANCHOR BOLT TO BE MINIMUM 89mm FROM ANY EDGE OF CONCRETE GRADE BEAM/PIER.
3. USE 32mm ANCHOR BOLTS AND 32mm THICK BASE PLATES AT BRACE BAYS TYPICAL ALL LOCATIONS.

IMPORTANT NOTES:

- ALL PIERS TO MATCH DEPTH OF GRADE BEAM U.N.O.
- GRADE BEAM CORNER BARS NOT SHOWN FOR CLARITY.
- EXTEND GRADE BEAM REINFORCEMENT THRU PIERS TYPICAL.
- HATCHED AREAS SHOWN AS THUS: ▨ INDICATES RECESSED AREAS FOR DEPTH OF SLAB U.N.O.
- AT LOCATIONS WITH 2 DIFFERENT SLAB THICKNESS, THE THICKER SLAB SHALL GOVERN THE DEPTH OF RECESS.
- GROUT ALL POCKETS SOLID ONCE COLUMN IS INSTALLED.
- POUR PIERS MONOLITHICALLY WITH GRADE BEAMS TYP.
- CONTRACTOR TO ENSURE MINIMUM 90mm CONCRETE COVER FROM CENTER OF ANCHOR BOLTS TO ANY CONCRETE EDGE TYPICAL.

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Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	APRIL 27, 2017	KM
2	ISSUED FOR PROGRESS	JUNE 15, 2017	KM
3	ISSUED FOR 95% REVIEW	AUGUST 8, 2017	KM
4	ISSUED FOR TENDER	SEPT. 12, 2017	KM

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Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

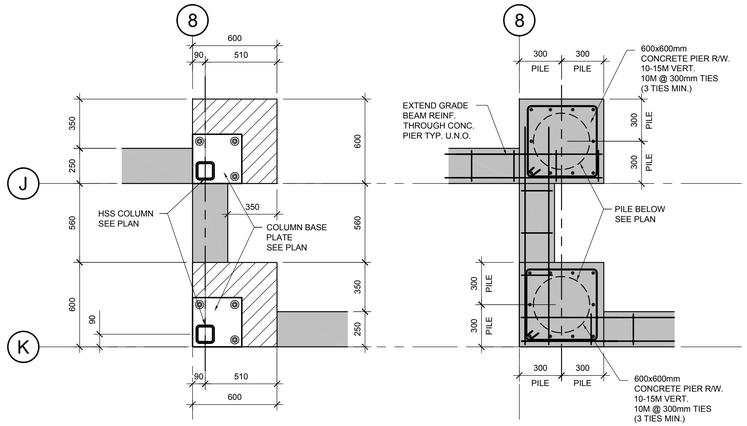
Scale	AS SHOWN	Designed By	HL/LADM
Project No.	16-4314	Drawn By	KM
Date	SEPT. 12, 2017	Checked By	LADM

Drawing Title

CONCRETE PIER DETAILS

Drawing No.

S6.1



CONCRETE PIER DETAIL CP11
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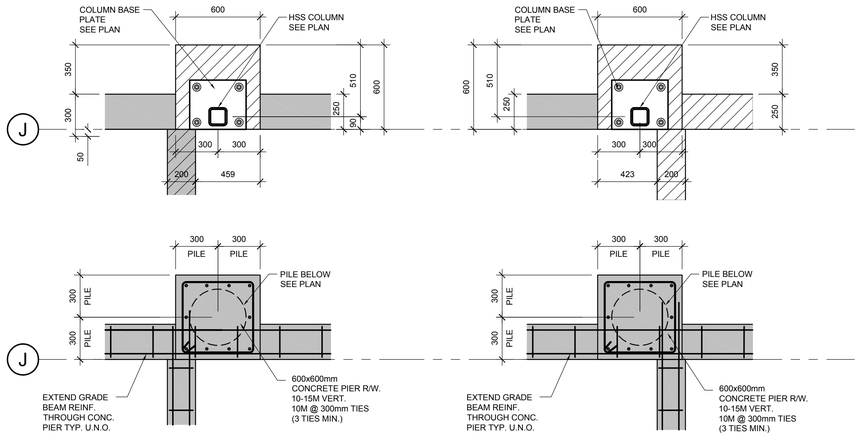


CONCRETE PIER DETAIL CP12
1:20 S3.1

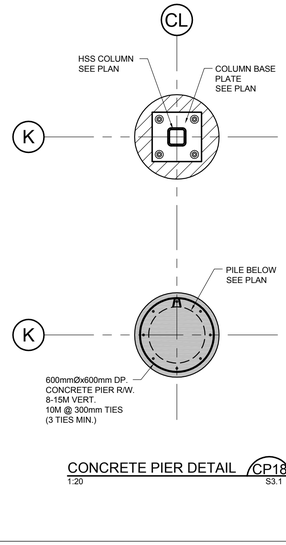
CONCRETE PIER DETAIL CP13
1:20 S3.1

CONCRETE PIER DETAIL CP14
1:20 S3.1

CONCRETE PIER DETAIL CP15
1:20 S3.1

CONCRETE PIER DETAIL CP16
1:20 S3.1

CONCRETE PIER DETAIL CP17
1:20 S3.1



CONCRETE PIER DETAIL CP18
1:20 S3.1

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Client

Government of Canada / Gouvernement du Canada

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Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

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Project No.	16-4314	Drawn By	KM
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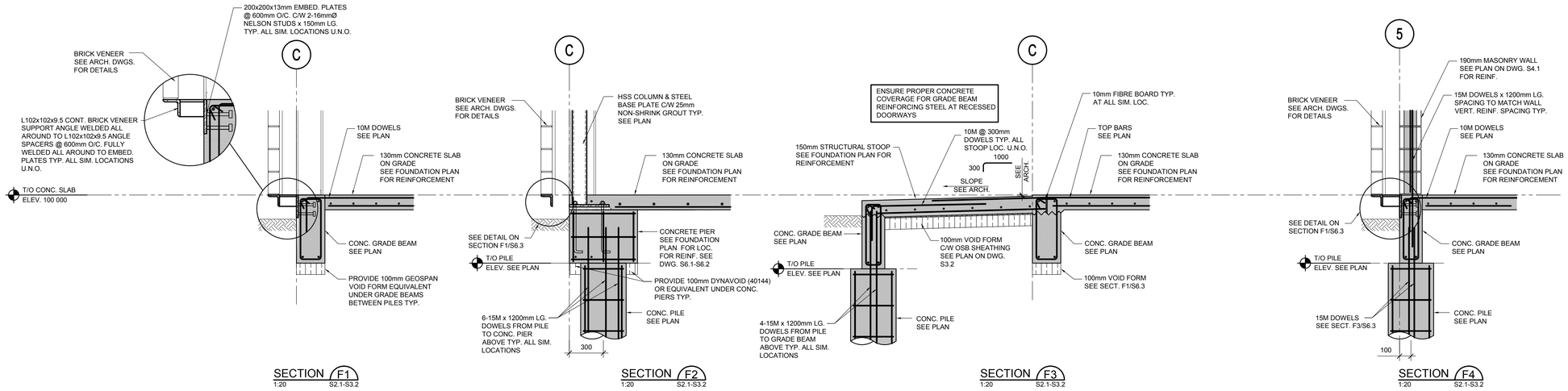
Drawing Title

CONCRETE PIER DETAILS

Drawing No.

S6.2



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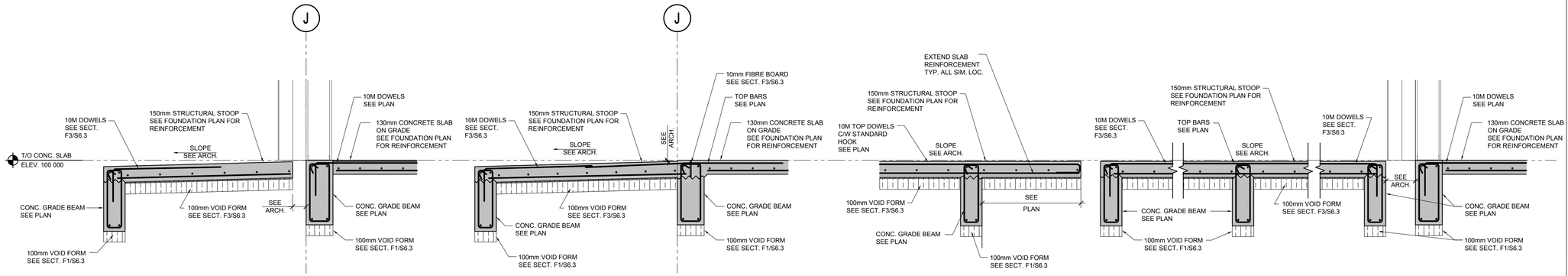
Scale	AS SHOWN	Designed By	HL/LADM
Project No.	16-4314	Drawn By	KM
Date	SEPT. 12, 2017	Checked By	LADM

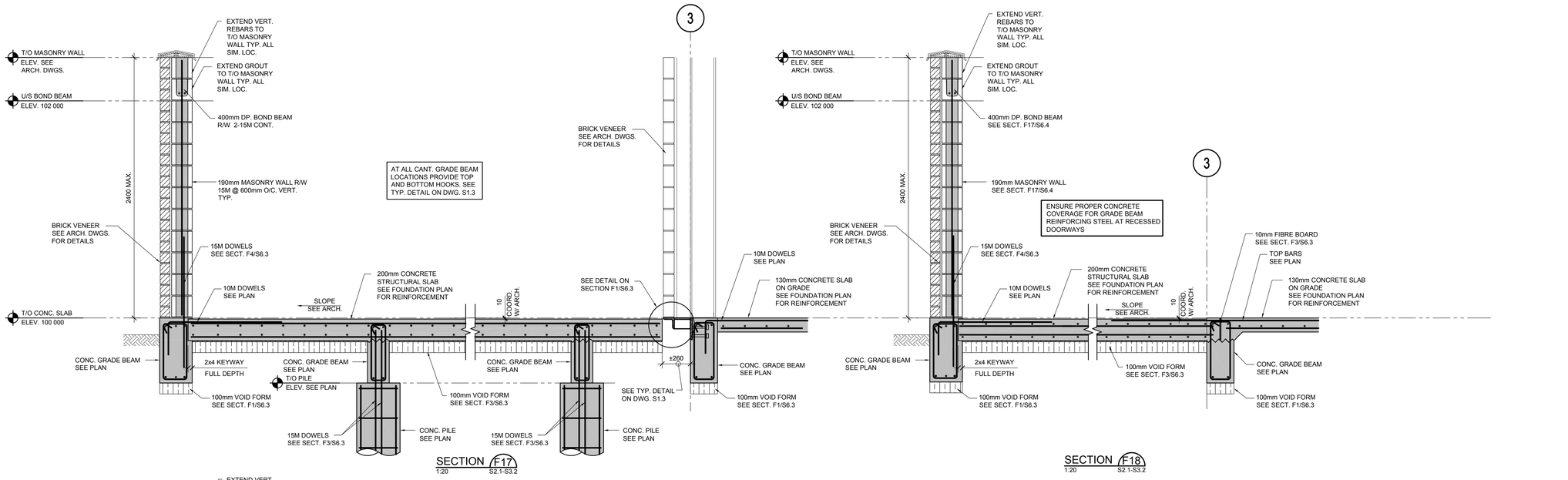
Drawing Title

FOUNDATION SECTIONS

Drawing No.

S6.3





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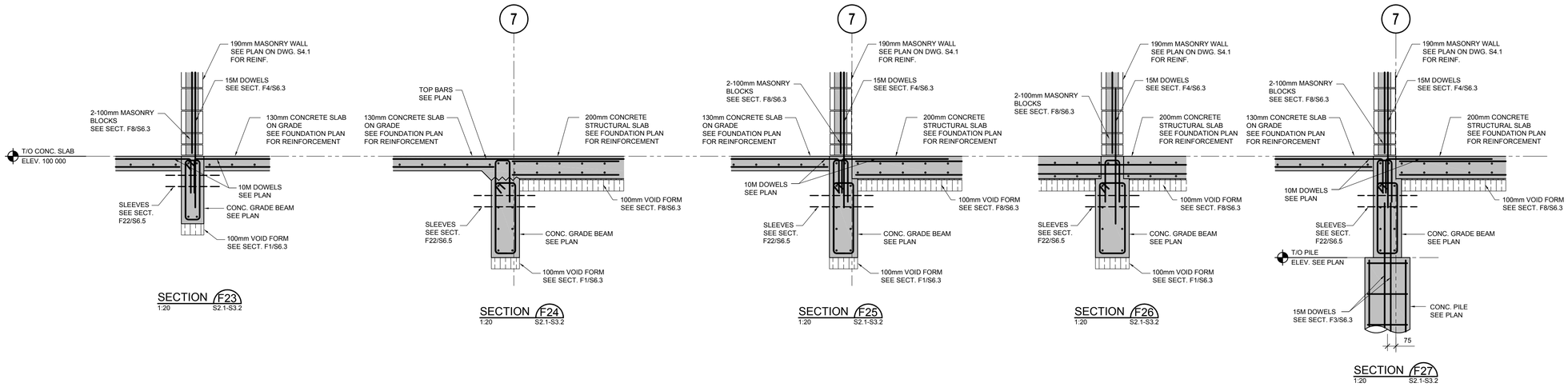
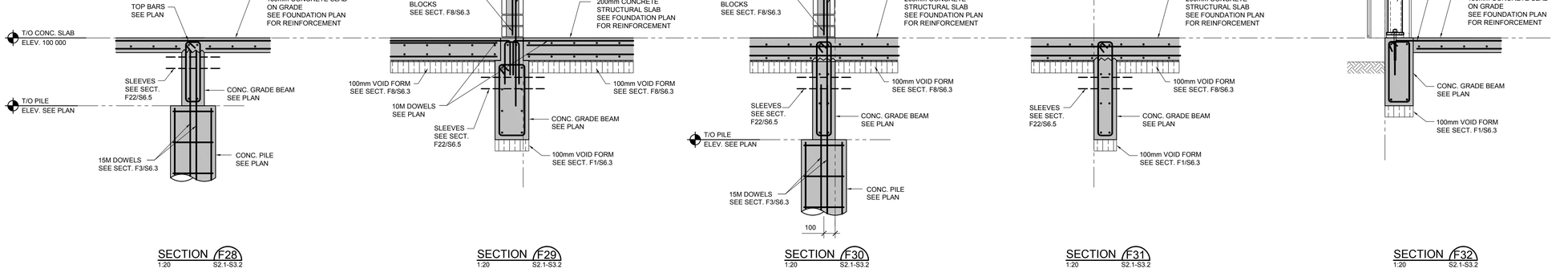
Drawing Title

FOUNDATION SECTIONS

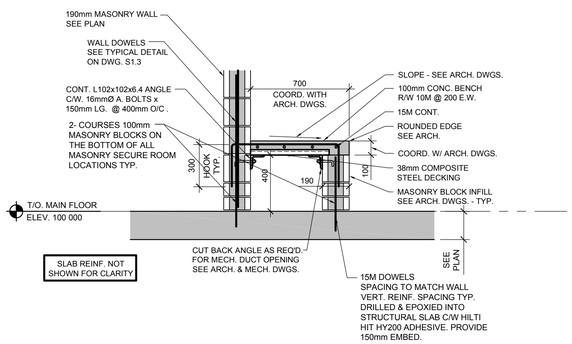
Drawing No.

S6.4





TYPICAL INTERIOR MASONRY WALLS TO STRUCTURAL SLAB DETAIL



TYPICAL INTERIOR MASONRY TO SLAB DETAIL AT SECURE ROOM LOCATIONS

1:20

1. SEE ARCH. DWGS. FOR LOCATIONS

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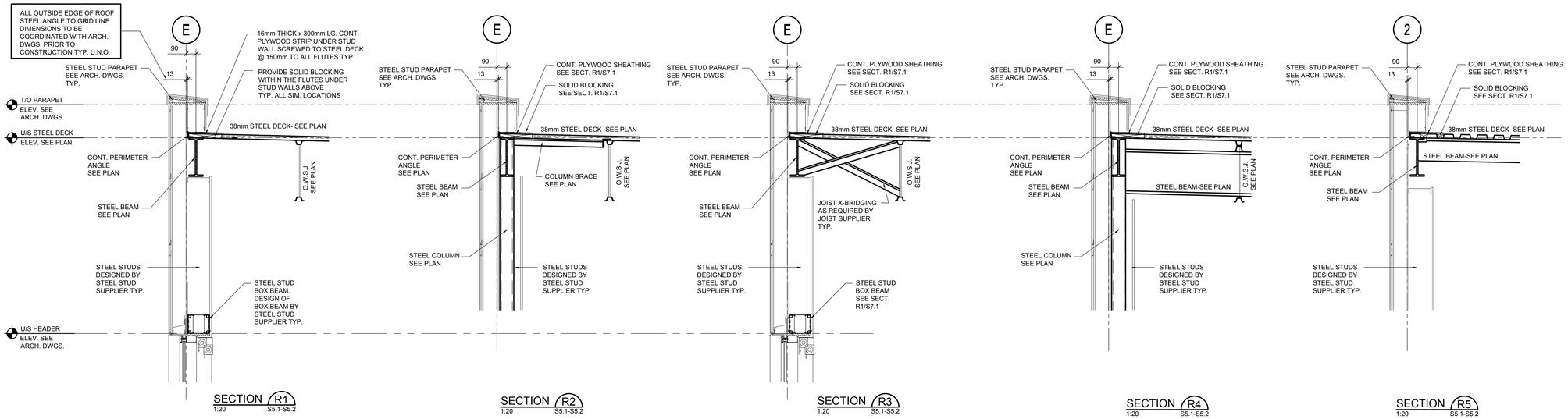
Project No.	16-4314	Drawn By	KM
Date	SEPT. 12, 2017	Checked By	LADM

Drawing Title

FOUNDATION SECTIONS

Drawing No.

S6.5



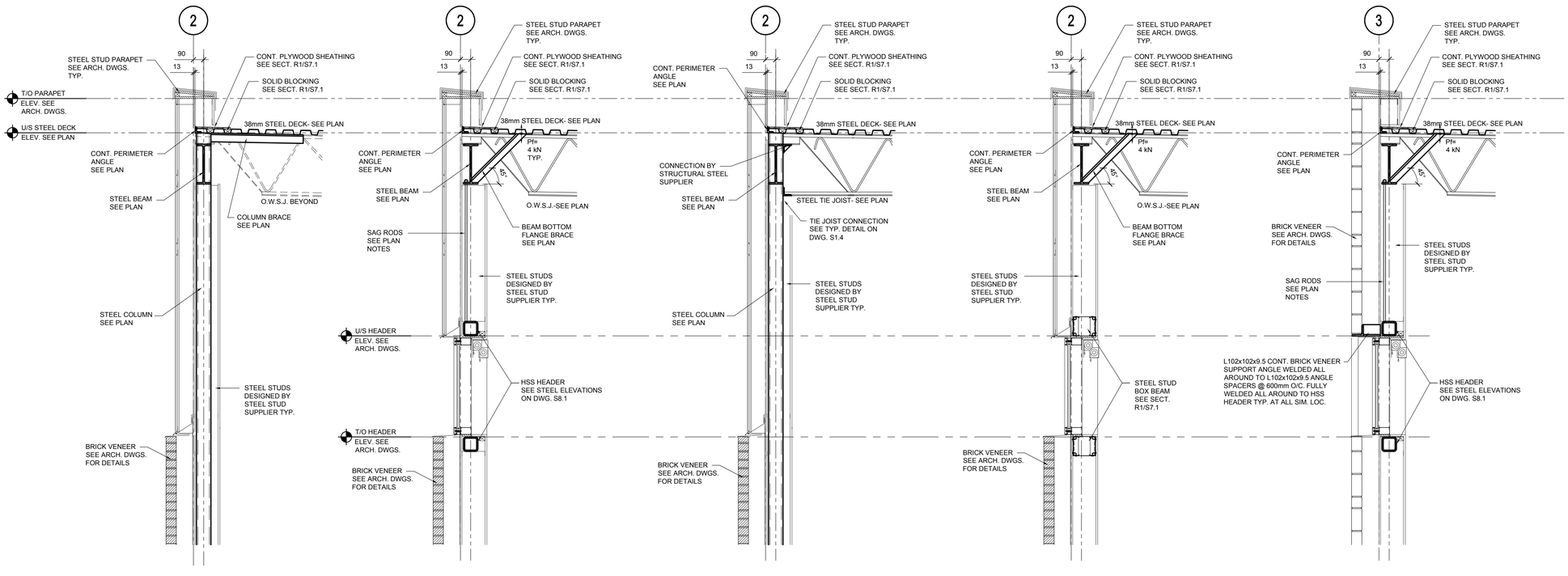
SECTION R1 1:20 S5.1-S5.2

SECTION R2 1:20 S5.1-S5.2

SECTION R3 1:20 S5.1-S5.2

SECTION R4 1:20 S5.1-S5.2

SECTION R5 1:20 S5.1-S5.2



SECTION R6 1:20 S5.1-S5.2

SECTION R7 1:20 S5.1-S5.2

SECTION R8 1:20 S5.1-S5.2

SECTION R9 1:20 S5.1-S5.2

SECTION R10 1:20 S5.1-S5.2

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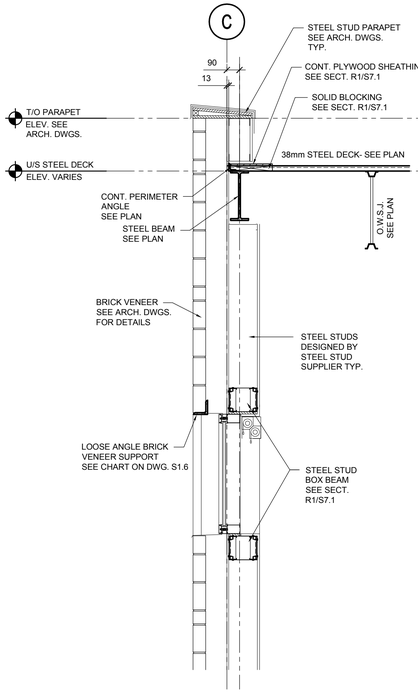
Project No.	16-4314	Drawn By	KM
Date	SEPT. 12, 2017	Checked By	LADM

Drawing Title

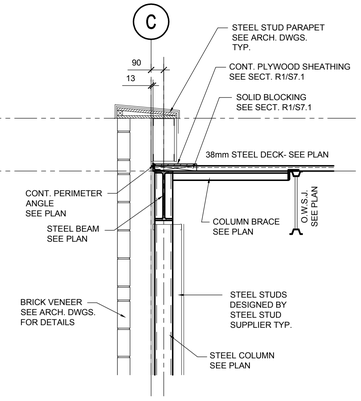
FRAMING SECTIONS

Drawing No.

S7.1



SECTION R11
1:20 S5.1-S5.2



SECTION R12
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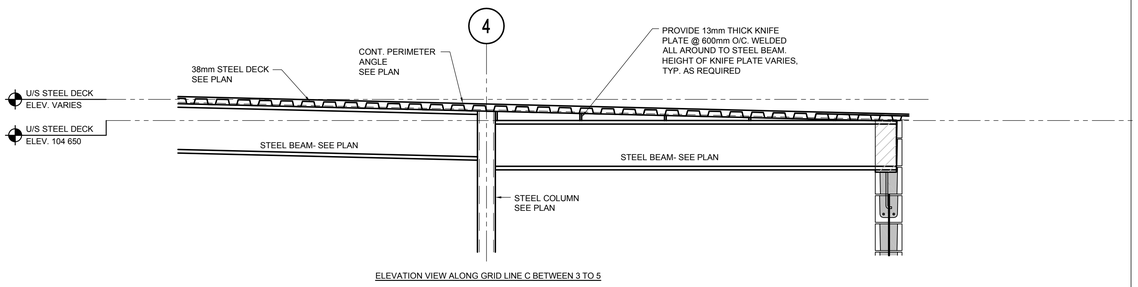
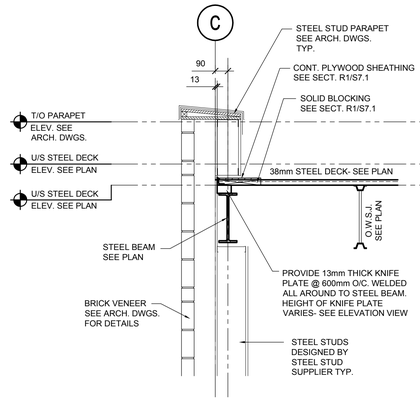


ELEVATION VIEW ALONG GRID LINE C BETWEEN 3 TO 5



SECTION R13
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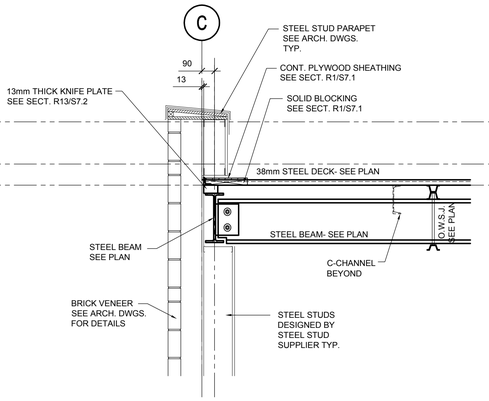

SECTION R14
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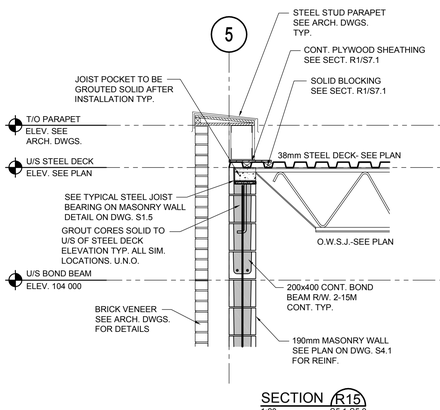

SECTION R15
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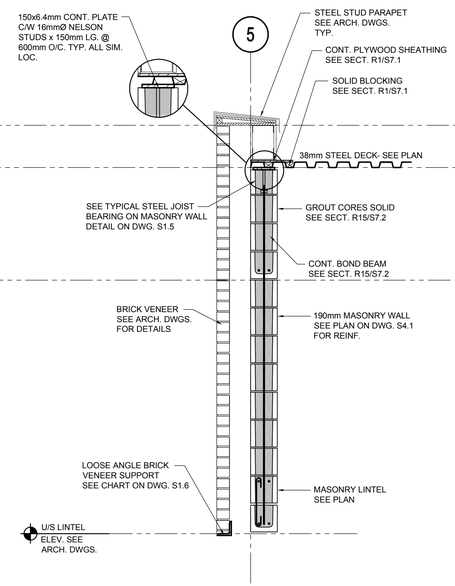

SECTION R16
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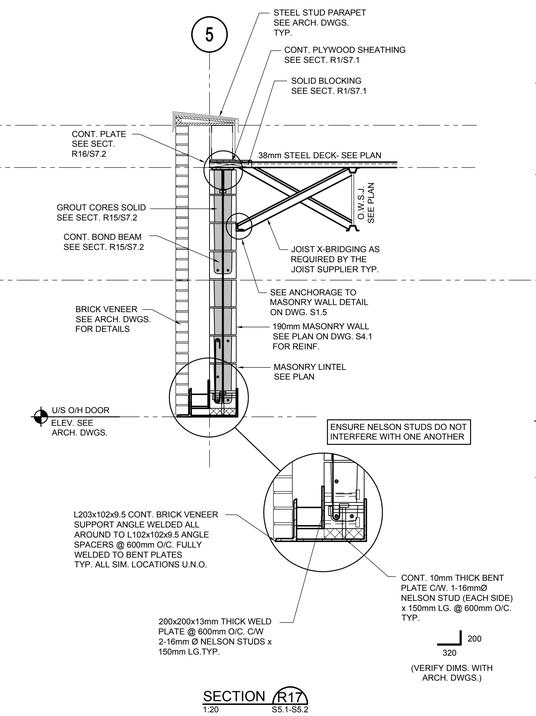

SECTION R17
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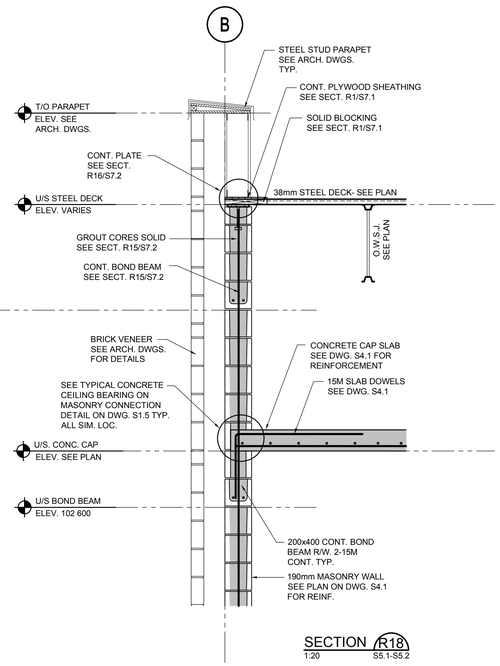

SECTION R18
1:20 S5.1-S5.2

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Issues/Revisions

No.	Description	Date	By
1	ISSUED FOR 50% REVIEW	APRIL 27, 2017	KM
2	ISSUED FOR PROGRESS	JUNE 15, 2017	KM
3	ISSUED FOR 95% REVIEW	AUGUST 8, 2017	KM
4	ISSUED FOR TENDER	SEPT. 12, 2017	KM

Seal

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

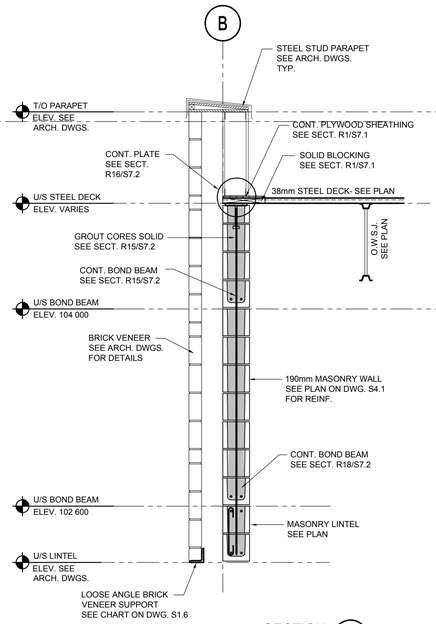
Scale	AS SHOWN	Designed By	HL/LADM
Project No.	16-4314	Drawn By	KM
Date	SEPT. 12, 2017	Checked By	LADM

Drawing Title

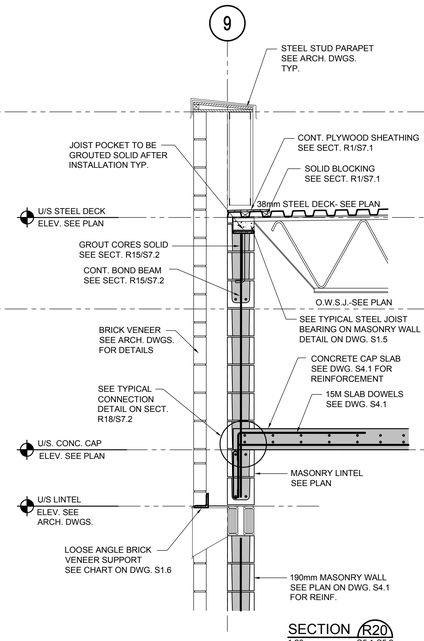
FRAMING SECTIONS

Drawing No.

S7.2



SECTION R19
1:20 S5.1-S5.2



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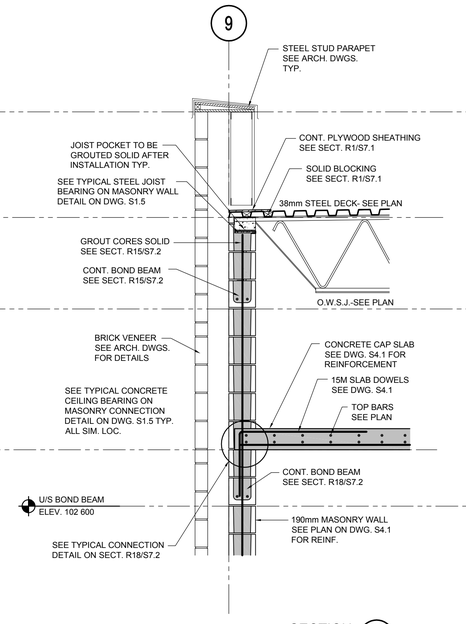

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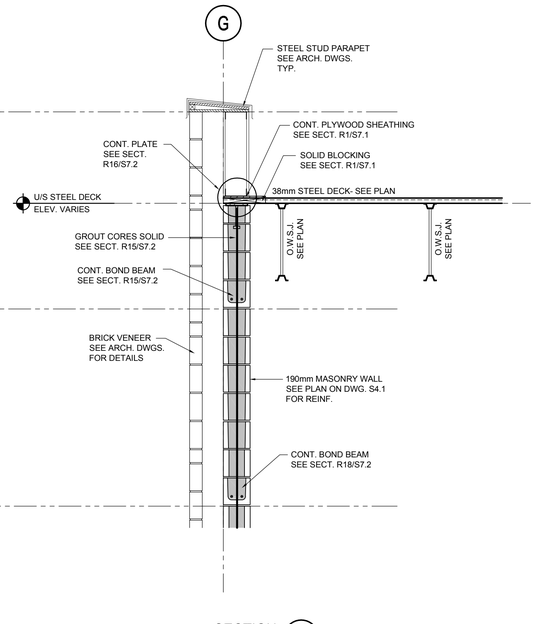

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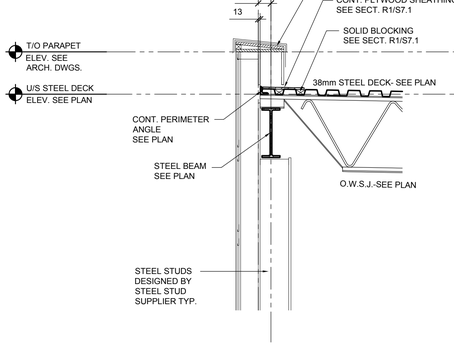

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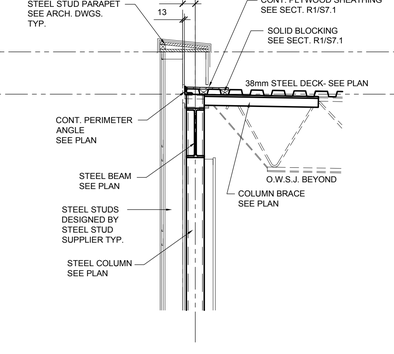

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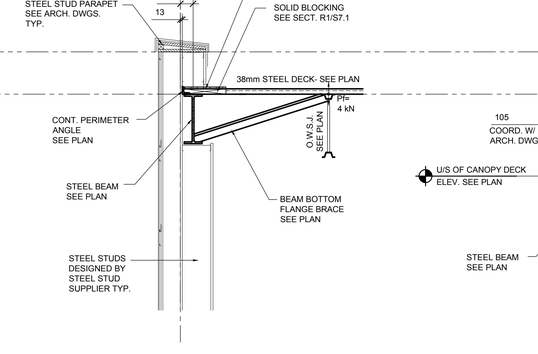
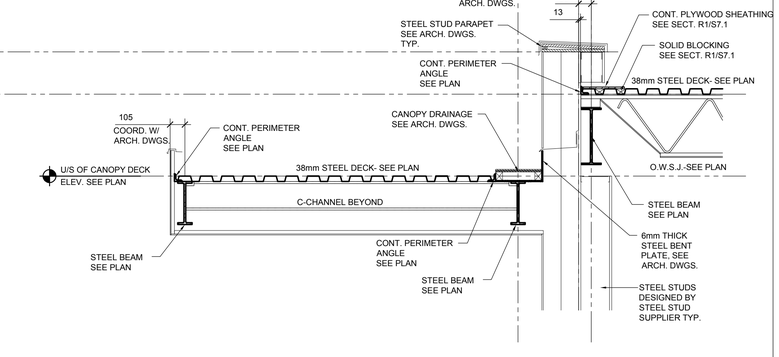
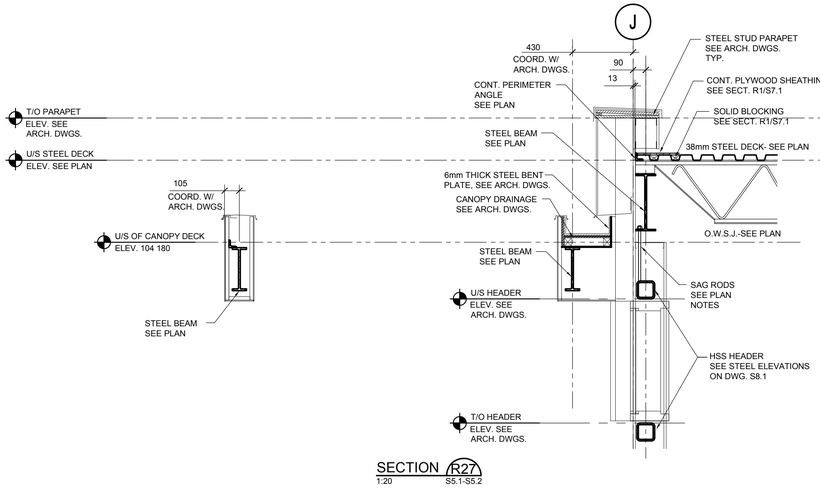


SECTION R25
1:20 S5.1-S5.2



SECTION R26
1:20 S5.1-S5.2



SECTION R27
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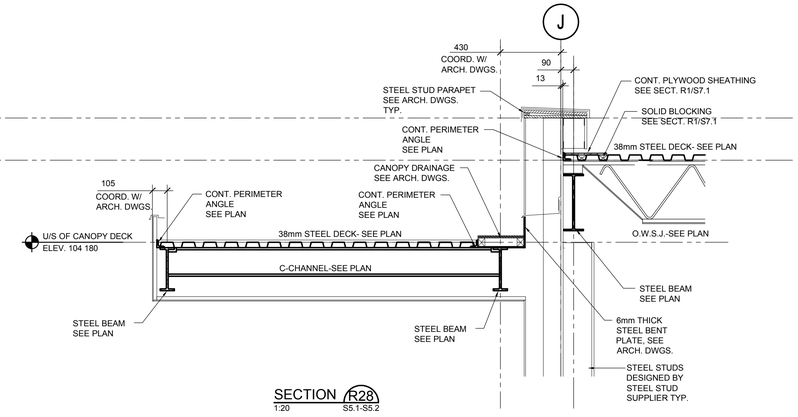

SECTION R28
1:20 S5.1-S5.2

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Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

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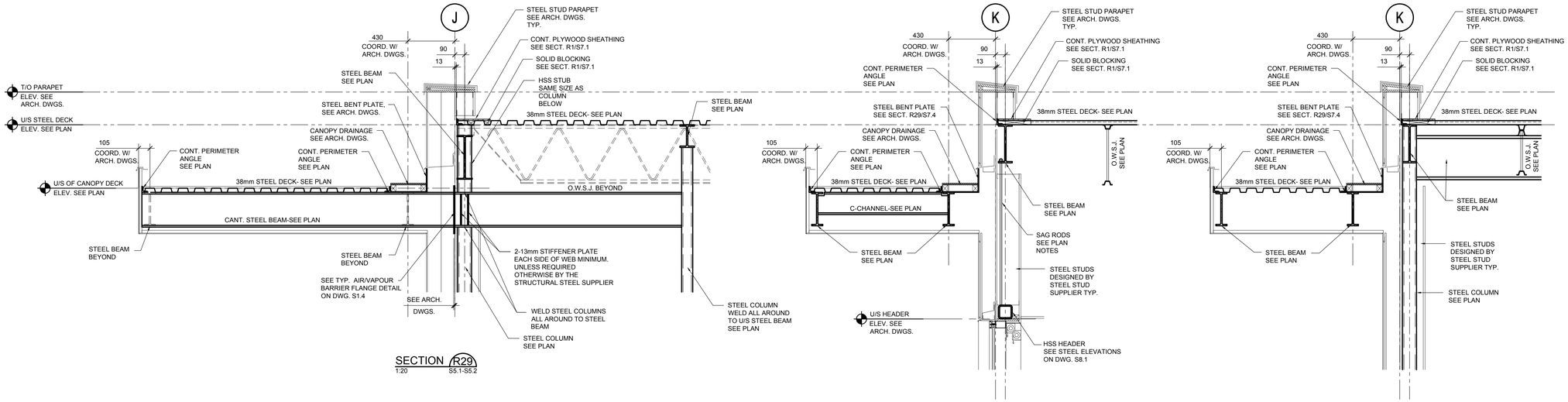
Project No.	16-4314	Drawn By	KM
Date	SEPT. 12, 2017	Checked By	LADM

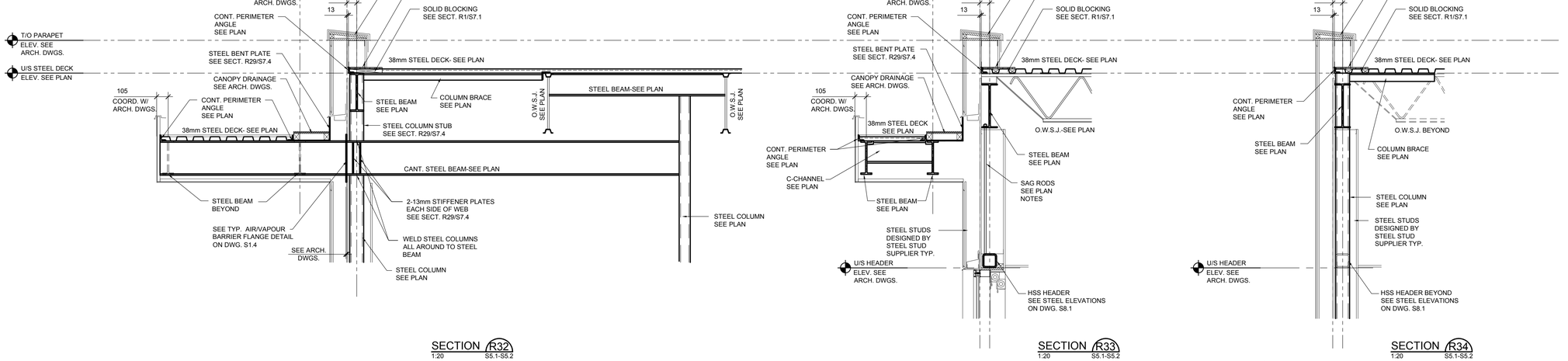
Drawing Title

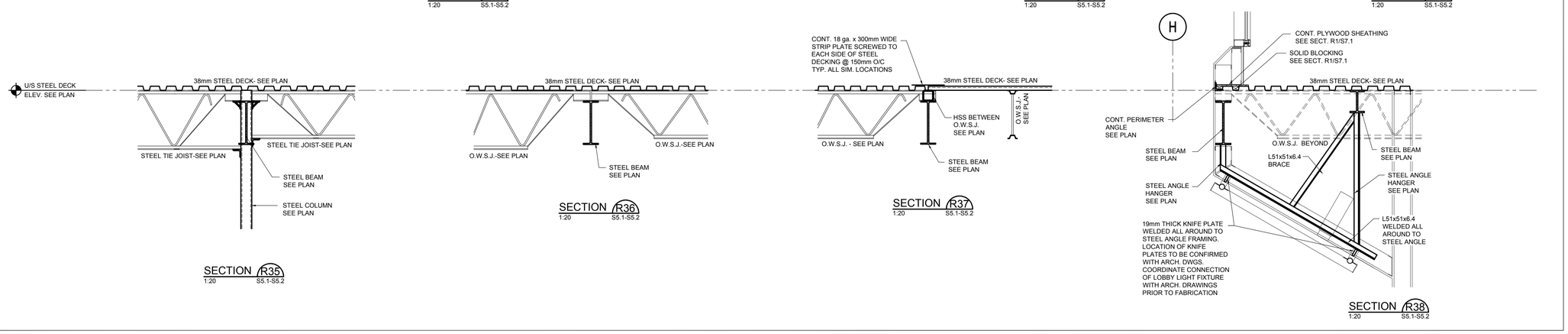
FRAMING SECTIONS

Drawing No.

S7.3







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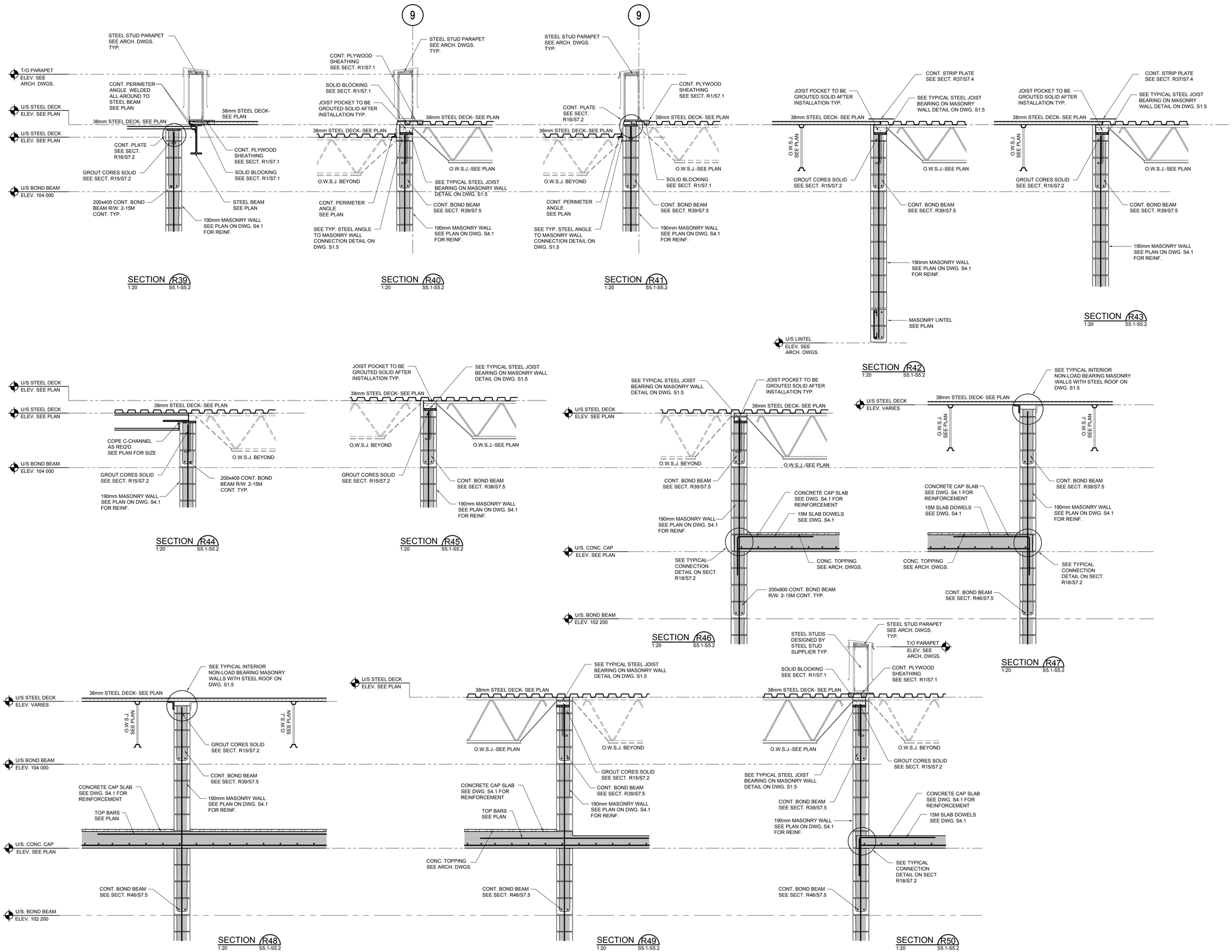
Drawing Title

FRAMING SECTIONS

Drawing No.

S7.4



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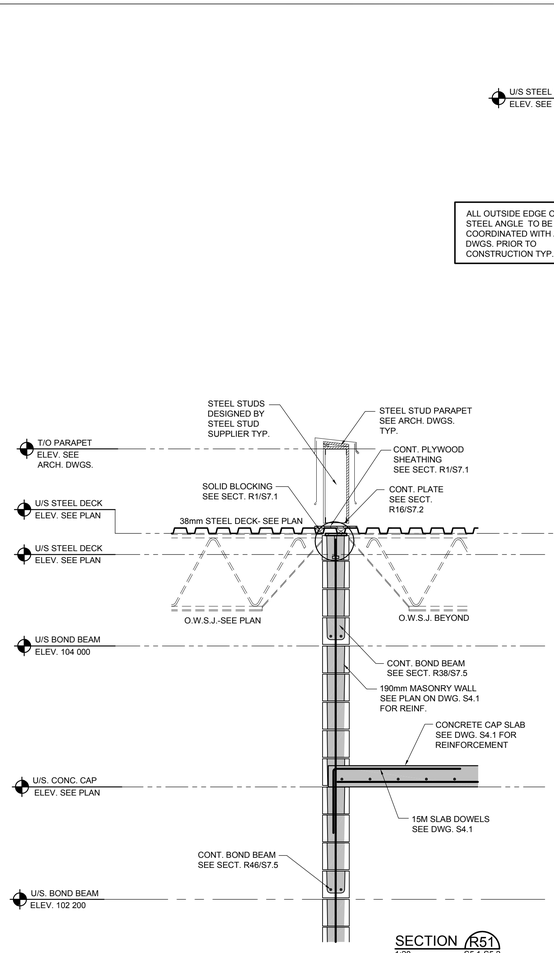
Date	SEPT. 12, 2017	Checked By	LADM

Drawing Title

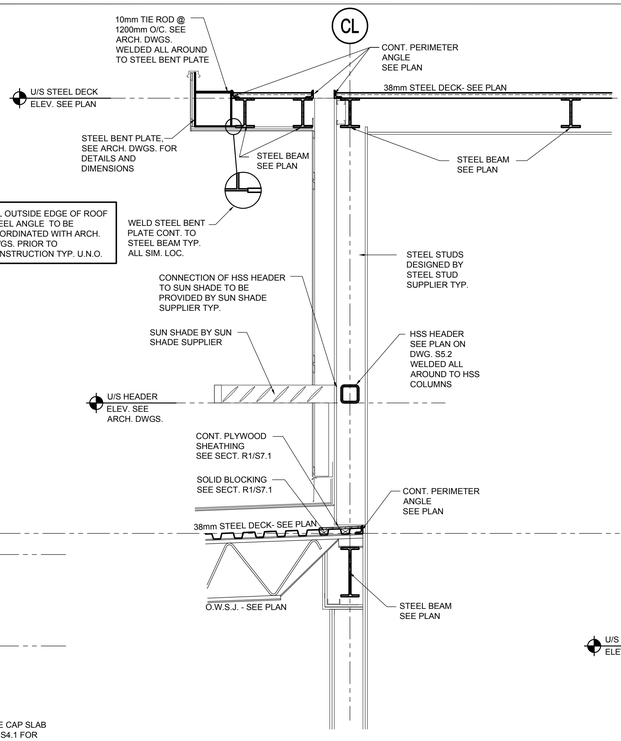
FRAMING SECTIONS

Drawing No.

S7.5



SECTION R51
1:20 S5.1-S5.2



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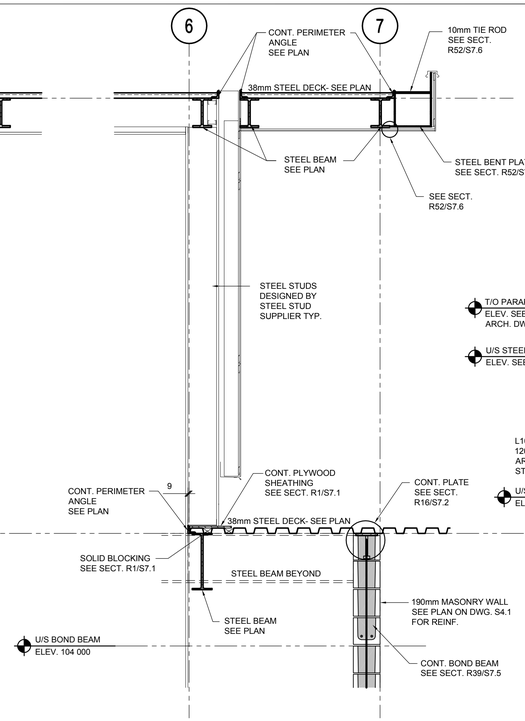

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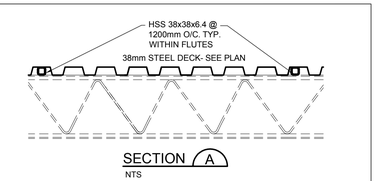
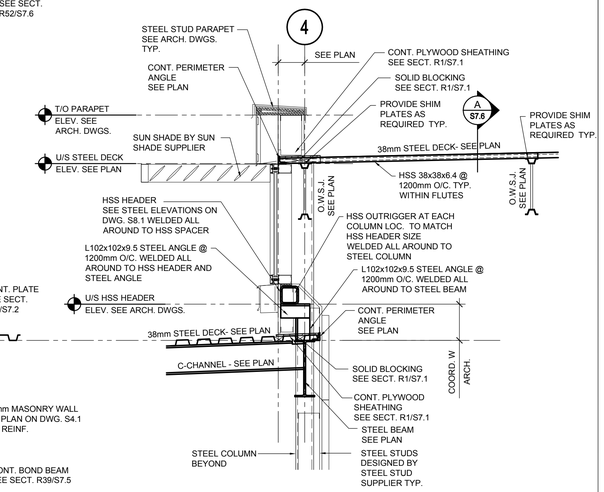


SECTION A
NTS



SECTION R54
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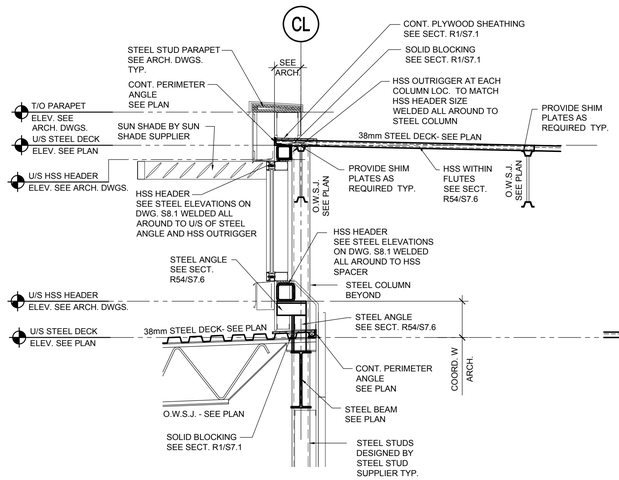

SECTION R55
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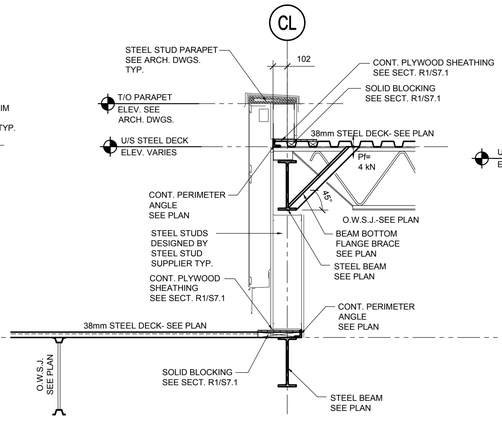

SECTION R56
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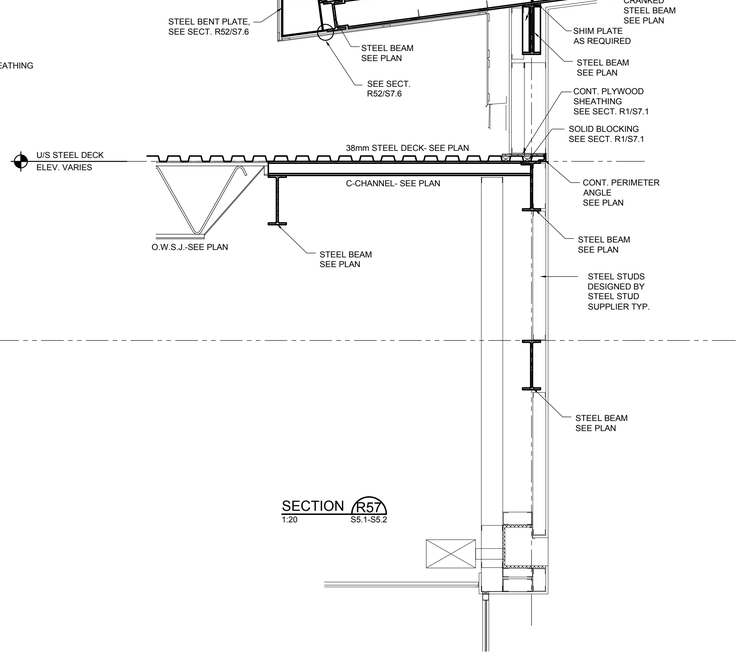

SECTION R57
1:20 S5.1-S5.2

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Seal

Client

Government of Canada / Gouvernement du Canada

Canada

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

Scale	AS SHOWN	Designed By	HL/LADM
Project No.	16-4314	Drawn By	KM
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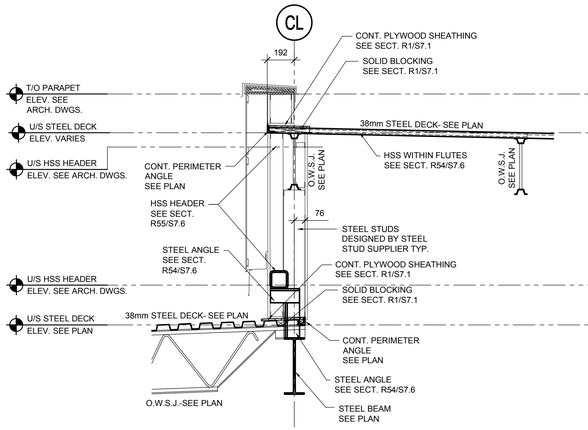
Drawing Title

FRAMING SECTIONS

Drawing No.

S7.6



SECTION R58
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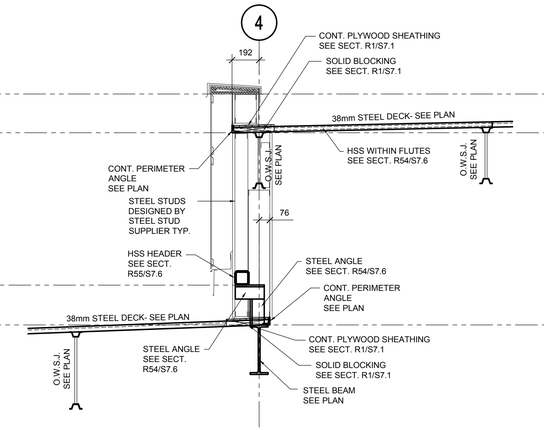

SECTION R59
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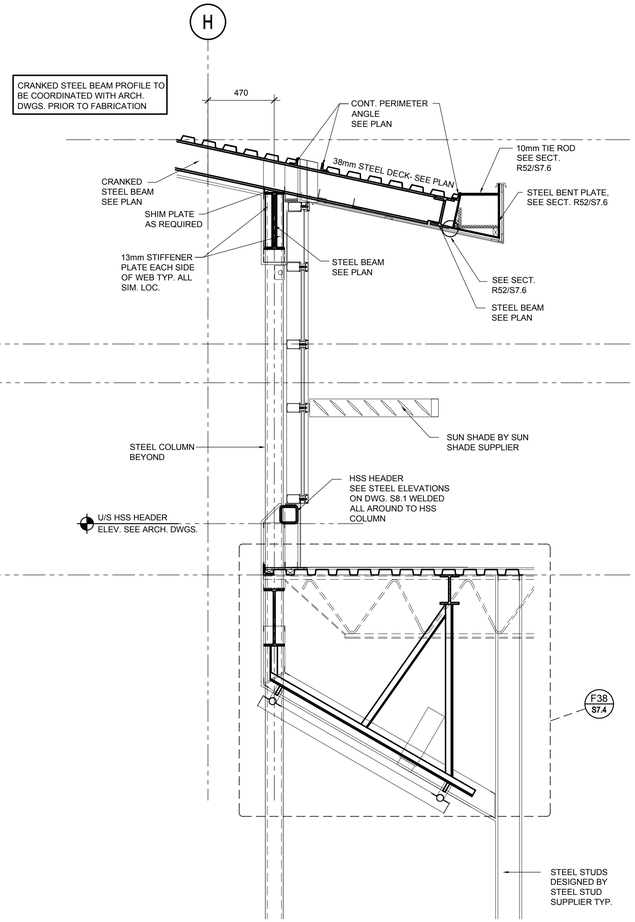

SECTION R60
1:20 S5.1-S5.2

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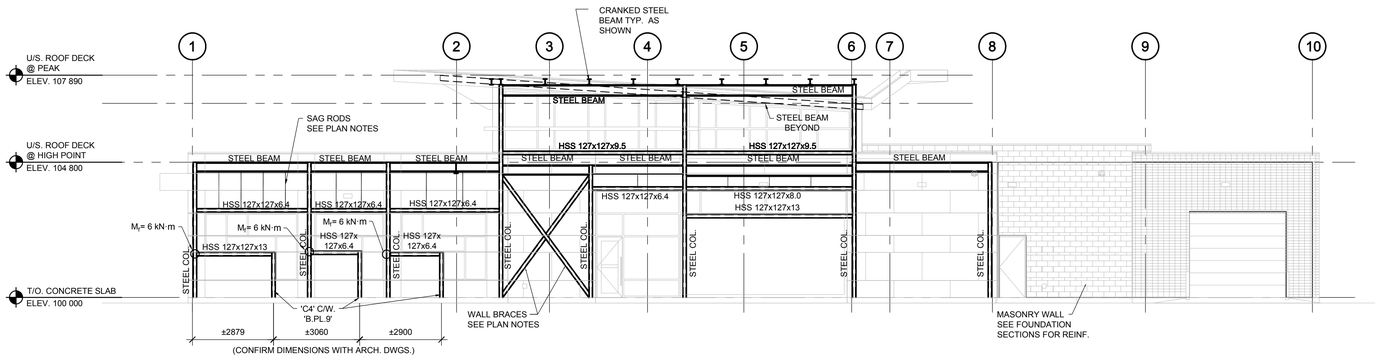
Drawing Title

FRAMING SECTIONS

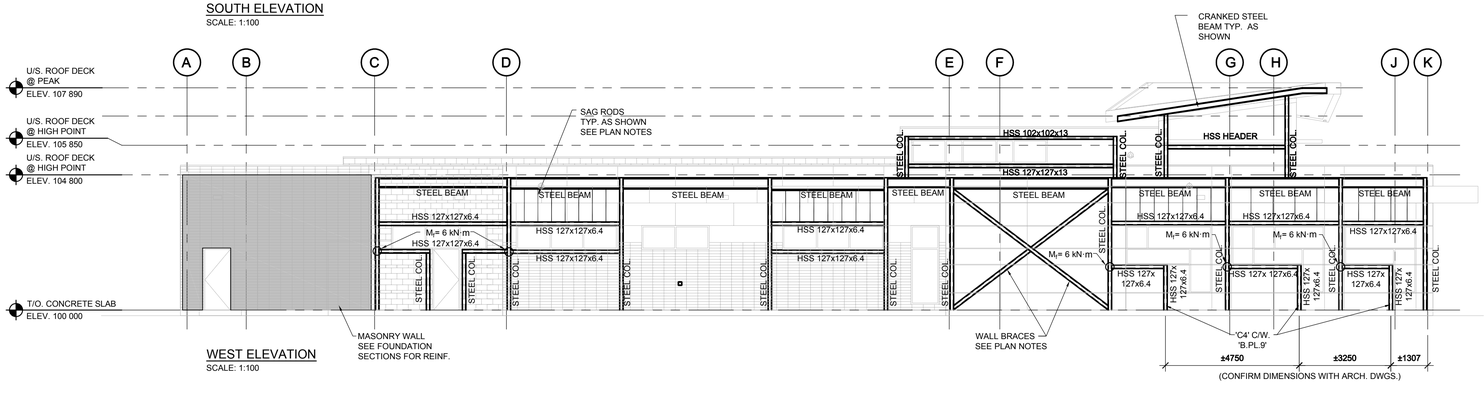
Drawing No.

S7.7



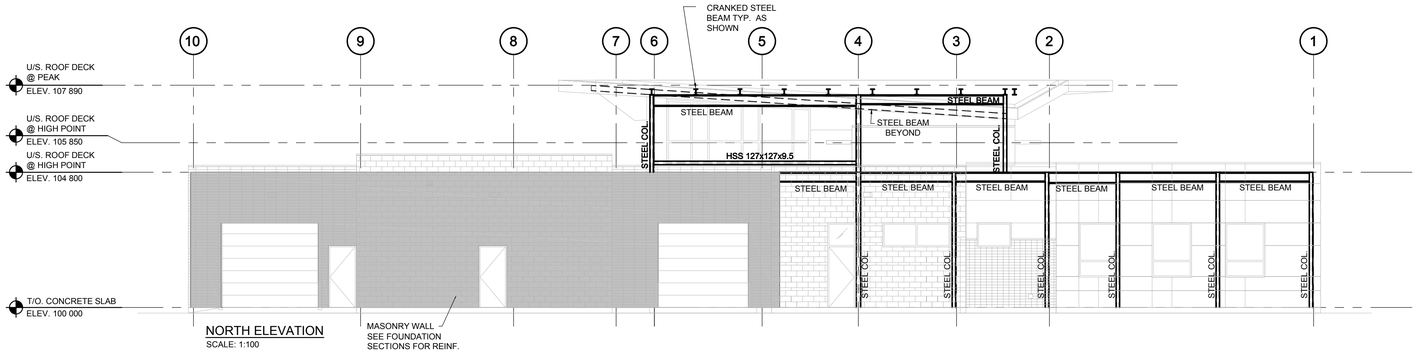
SOUTH ELEVATION

SCALE: 1:100



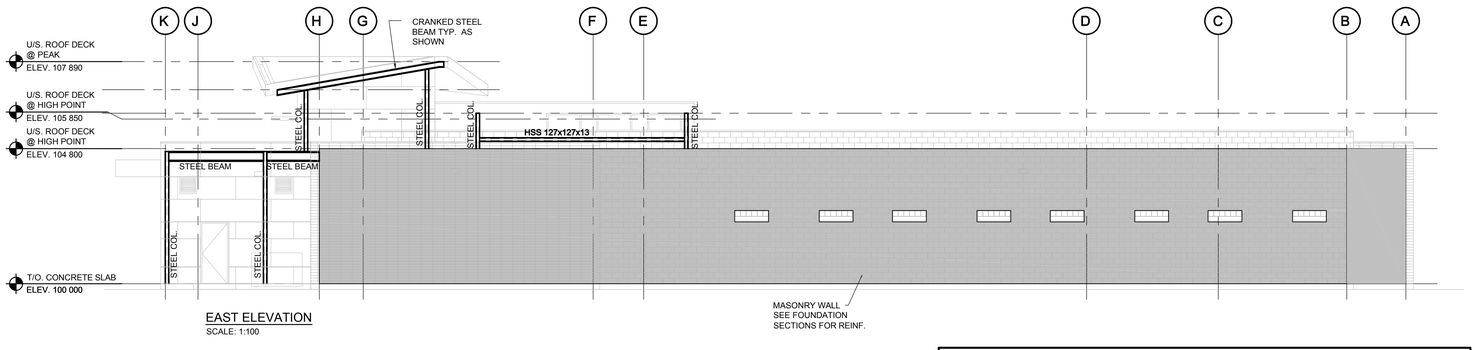
WEST ELEVATION

SCALE: 1:100



NORTH ELEVATION

SCALE: 1:100

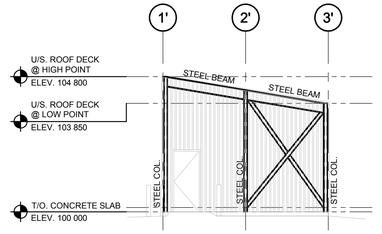


EAST ELEVATION

SCALE: 1:100

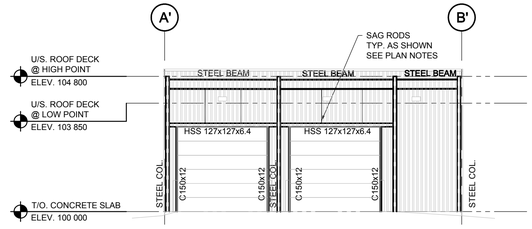
GENERAL NOTES:

1. SEE PLANS FOR STEEL COLUMN, STEEL BEAM AND WALL BRACE SIZES.
2. ALL ELEVATIONS SHOWN ABOVE & BELOW OPENINGS ARE TO BE COORDINATED WITH THE ELEVATIONS SHOWN ON THE ARCHITECTURAL DRAWINGS PRIOR TO TENDER.
3. COORDINATE LOCATION OF ALL HSS HEADERS / HORIZONTAL MEMBERS WITH SECTIONS AND PLANS.
4. FOUNDATIONS ARE NOT SHOWN FOR CLARITY. COORDINATE LENGTH OF COLUMNS WITH FOUNDATIONS SECTIONS AND CONCRETE PIER DETAILS - TYPICAL.



OUT BUILDING- SOUTH ELEVATION

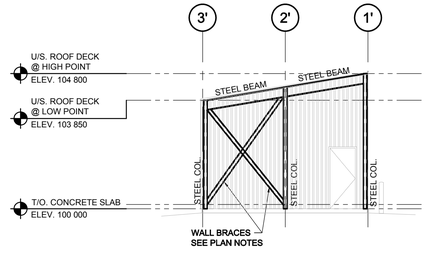
SCALE: 1:100



OUT BUILDING- WEST ELEVATION

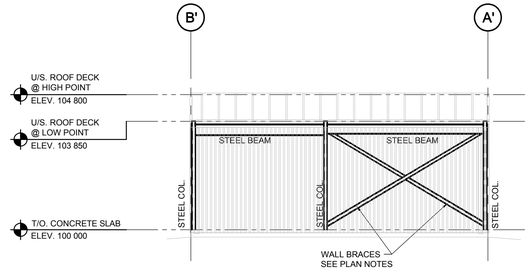
SCALE: 1:100

1. AT ALL C150x12 LOCATIONS, PROVIDE 'B.PL.7'. COORDINATE LOCATION AND EXTENT OF O/H DOOR OPENING WITH ARCH. DWGS. PRIOR TO COMMENCING WITH WORK.



OUT BUILDING- NORTH ELEVATION

SCALE: 1:100



OUT BUILDING- EAST ELEVATION

SCALE: 1:100

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Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

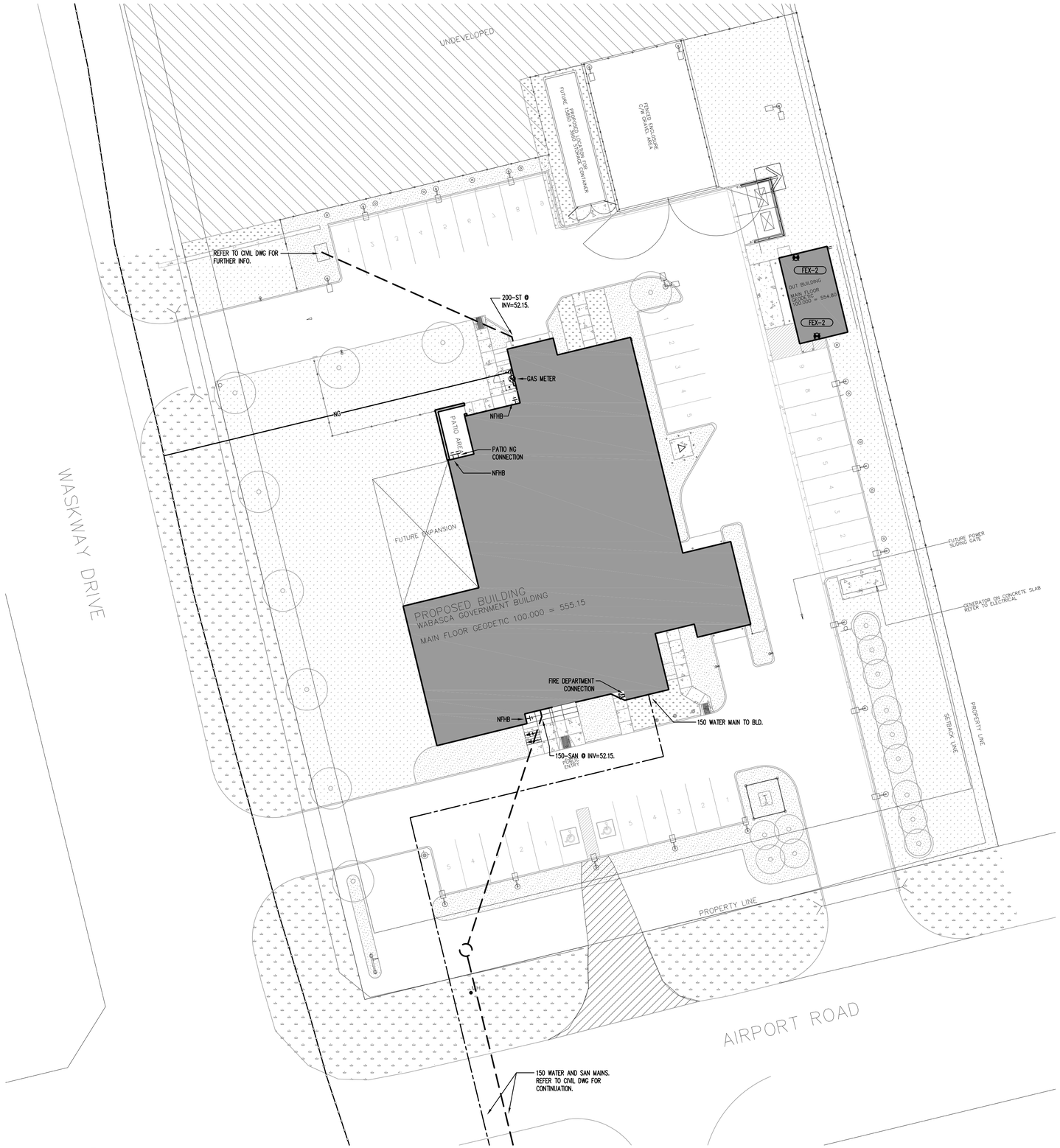
Scale	AS SHOWN	Designed By	HL/LADM
Project No.	16-4314	Drawn By	KM
Date	SEPT. 12, 2017	Checked By	LADM

Drawing Title

STRUCTURAL STEEL ELEVATIONS

Drawing No.

S8.1



1 MECHANICAL SITE PLAN
M1.0 SCALE: 1:250

GAS LOAD INFORMATION

EQUIPMENT	INPUT CMH (CFH)	
BOILER B-1	8.5 (300)	MINIMUN DISTANCE BETWEEN GAS LINE AND UNDERGROUND SERVICES – 2 METERS (6 FEET) MAXIMUM DISTANCE BETWEEN INCOMING GAS LINE AND MECHANICAL ROOM FLOOR. 152mm. (6 INCHES)
BOILER B-2	8.5 (300)	
DOMESTIC HOT WATER DHW-1	8.5 (300)	
DOMESTIC HOT WATER DHW-1	8.5 (300)	
ENERGY RECOVERY UNIT ERV-1	10.62 (375)	
HUMIDIFIER HU-1	8.5 (300)	
OUTDOOR PATIO CONNECTION	1.7 (60)	
TOTAL	54.82 (1935)	

FOR MECHANICAL CONTRACTOR

PRIOR TO COMMENCING INSTALLATION WITHIN THE BUILDING. THE MECHANICAL CONTRACTOR SHALL CHECK THE LOCATION AND INVERT ELEVATIONS OF ALL SERVICE LINES INCLUDING SANITARY SEWER, STORM SEWER, WATER MAINS, AND GAS MAINS WITH LOCAL AUTHORITIES TO INSURE THAT THESE SERVICES CAN BE INSTALLED AS SHOWN.

ADDITIONAL NOTES:
GAS LINES SIZING WITHIN BUILDING BASED ON 2 Psig.

LEGAL DESCRIPTION

LOT 8, BLOCK 15, PLAN 972 3974

GENERAL NOTES:

1. ALL WORK SHALL BE AS PER ALL NATIONAL, PROVINCIAL, & MUNICIPAL CODES & REGULATIONS & ALL AUTHORITIES HAVING JURISDICTION. INCORPORATE ALL MUNICIPAL STANDARDS, APPROVED INSTALLATION MATERIALS & METHODS INTO OUTLINED DESIGN.
2. DRAWINGS TO BE READ IN CONJUCTION WITH ALL OTHER DISCIPLINES. CONTRACTOR SHALL NOFITY ENGINEER OF ALL DISCREPANCIES.
3. COORDINATE UNDERGROUND NATURAL GAS PIPING WITH ALL UNDERGROUND UTILITIES.
4. REFER TO ARCHITECTURAL FOR EXACT TREE LOCATIONS.

MECHANICAL LEGEND

- DCW — DOMESTIC COLD WATER
- DHW — DOMESTIC HOT WATER
- DHWR — DOMESTIC HOT WATER RECIRC.
- F — FIRE WATER
- GLYS — HEATING GLYCOL SUPPLY
- GLYR — HEATING GLYCOL RETURN
- CH-GLYS — CHILLED GLYCOL SUPPLY
- CH-GLYR — CHILLED GLYCOL RETURN
- HWS — HEATING WATER SUPPLY
- HWR — HEATING WATER RETURN
- CH-CWS — CHILLED WATER SUPPLY
- CH-CWR — CHILLED WATER RETURN
- NG — NATURAL GAS
- LPS — LOW PRESSURE STEAM
- SAN — SANITARY
- SAN — UNDERGROUND SANITARY
- SP — SPRINKLER LINE
- ST — STORM WATER
- ST — UNDERGROUND STORM WATER
- BALL VALVE
- GATE VALVE
- GLOBE VALVE
- CHECK VALVE
- PLUG VALVE
- FLEXIBLE CONNECTION
- CIRCUIT BALANCING VALVE
- PRESSURE REDUCING VALVE
- Y TYPE STRAINER
- CONTROL VALVE
- UNION
- BFP — BACKFLOW PREVENTOR
- DIRECTION OF FLOW
- PUMP
- RADIANT PANEL
- FD — FLOOR DRAIN
- RD — ROOF DRAIN
- T — THERMOSTAT
- T — THERMOSTAT WITH GUARD
- H — HUMIDISTAT
- TI — TEMPERATURE INDICATOR
- TT — TEMPERATURE TRANSMITTER
- TS — TEMPERATURE SENSOR
- PI — PRESSURE INDICATOR
- PT — PRESSURE TRANSMITTER
- $ — EQUIPMENT SWITCH
- W/M — WATER METER
- G/M — GAS METER
- FEX — FIRE EXTINGUISHER
- FEX — FIRE EXTINGUISHER CABINET
- FIRE DEPARTMENT CONNECTION (SIAMESE)
- PIPE DROP
- PIPE RISE
- END CAP
- PIPE TEE DOWN / PIPE TEE UP
- DRAIN C/W HOSE BIBB AND CAP
- CO — CLEANOUT
- FCO — FLOOR CLEANOUT
- HB — HOSE BIBB
- NFHB — NON-FREEZE HOSE BIBB
- P-TRAP
- UP / DN — SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- ROUND DUCT
- SD / FD — SMOKE/FIRE DAMPER
- M/D — MOTORIZED DAMPER
- BDD — BACKDRAFT DAMPER
- BALANCING DAMPER
- FLEXIBLE DUCT CONNECTION
- ACOUSTIC INSULATION
- TURNING VANES

EQUIPMENT TYPE — EQUIPMENT NUMBER (AHU-101)

AHU	AIR HANDLING UNIT	P	PUMP
B	BOILER	R/A	RETURN AIR
CO	CLEANOUT	RF	RETURN FAN
CU	CONDENSING UNIT	RH	RANGE HOOD
DF	DRINKING FOUNTAIN	RP	RADIANT PANEL
DWH	DOMESTIC WATER HEATER	S/A	SUPPLY AIR
E/A	EXHAUST AIR	SF	SUPPLY FAN
EF	EXHAUST FAN	SH	SHOWER
FEX	FIRE EXTINGUISHER	SK	SINK
FF	FORCE FLOW	T/A	TRANSFER AIR
FM	FLOW METER	TK	TANK
HC	HEATING COIL	WC	WATER CLOSET
HE	HEAT EXCHANGER	UH	UNIT HEATER
HU	HUMIDIFIER	UR	URNINAL
LAV	LAVATORY	EX	"EX" BEFORE LABEL INDICATES EXISTING.
MS	MOP SINK		
O/A	OUTDOOR AIR		

EQUIP. IDENTIFICATION SYMBOL

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

Notes:

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WILLIAMS ENGINEERING CANADA

Issues/Revisions

No.	Description	Date	By
0	ISSUED FOR TENDER	2017.09.12	QK

Seal

PROFESSIONAL ENGINEER ALBERTA — QUENTON KUSS — 2017.09.12

PERMIT TO PRACTICE
WILLIAMS ENGINEERING CANADA INC.
PERMIT NUMBER
P 10527
The Association of Prof. Engineers and Geoscientists of Alberta.

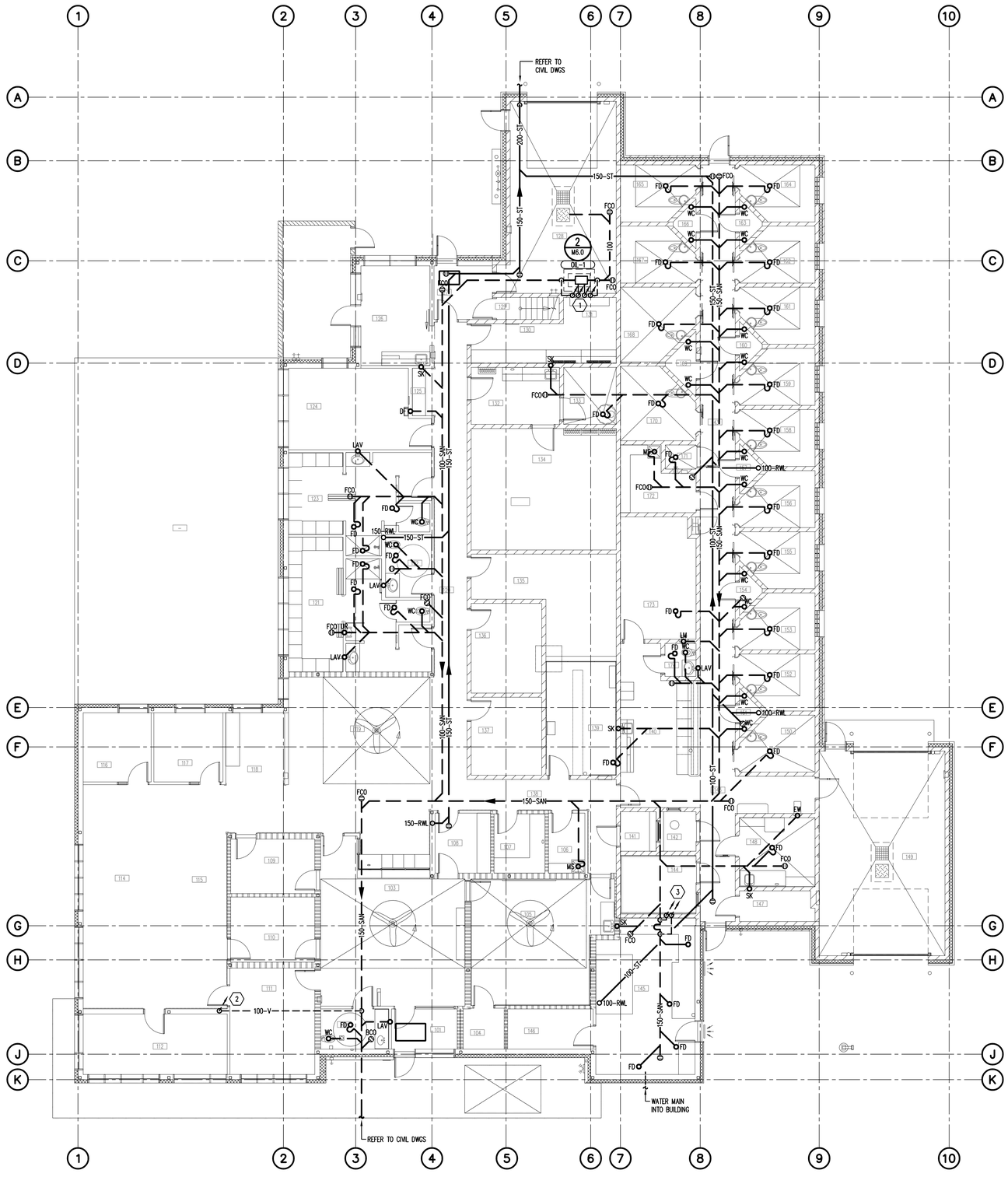
Client
WABASCA-DESMARAIS

Project
WABASCA / DESMARAIS GOVERNMENT BUILDING

Scale	AS NOTED	Designed By	QK
Project No.	9031	Drawn By	QK
Date	2017.09.12	Checked By	PC

Drawing Title
MECHANICAL SITE PLAN AND LEGEND

Drawing No.
M1.0



1 M2.0 MECHANICAL FOUNDATION PLAN
SCALE: 1:100

KEYNOTES:

1. FOUR 50#mm VENTS FROM OIL INTERCEPTOR UP TO 100# VENT TERMINAL THRU ROOF.
2. 100# BUILDING VENT TO 100# VENT TERMINAL THRU ROOF.
3. PIPE RUNNING TRAP VENTS TO NEAREST STACK VENT. REFER TO DRAWING M2.1 FOR STACK VENT LOCATIONS.

GENERAL NOTES:

1. ALL BELOW GRADE PIPING TO BE SUSPENDED FROM MAIN FLOOR STRUCTURAL SLAB.
2. ALL WORK SHALL BE AS PER NATIONAL, PROVINCIAL, AND MUNICIPAL CODES, REGULATIONS AND AUTHORITIES HAVING JURISDICTION.
3. COORDINATE UNDERGROUND SANITARY AND STORM PIPING LAYOUT WITH OTHER TRADES ON SITE PRIOR TO INSTALLATION.
4. CONTRACTOR TO CONFIRM ALL INVERTS PRIOR TO INSTALLATION OF PIPING.
5. SLOPE ALL UNDERGROUND SANITARY PIPING AT 2% UNLESS OTHERWISE NOTED.
6. SLOPE ALL UNDERGROUND STORM PIPING AT 2% UNLESS OTHERWISE NOTED.
7. ALL FLOOR DRAIN AND SHOWER DRAIN TO BE CONNECTED TO TRAP PRIMERS.
8. MAIN FLOOR ELEVATION = 100.00m
9. VENT ALL PLUMBING AS PER THE LATEST EDITION OF THE NATIONAL PLUMBING CODE.

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GOVERNMENT BUILDING

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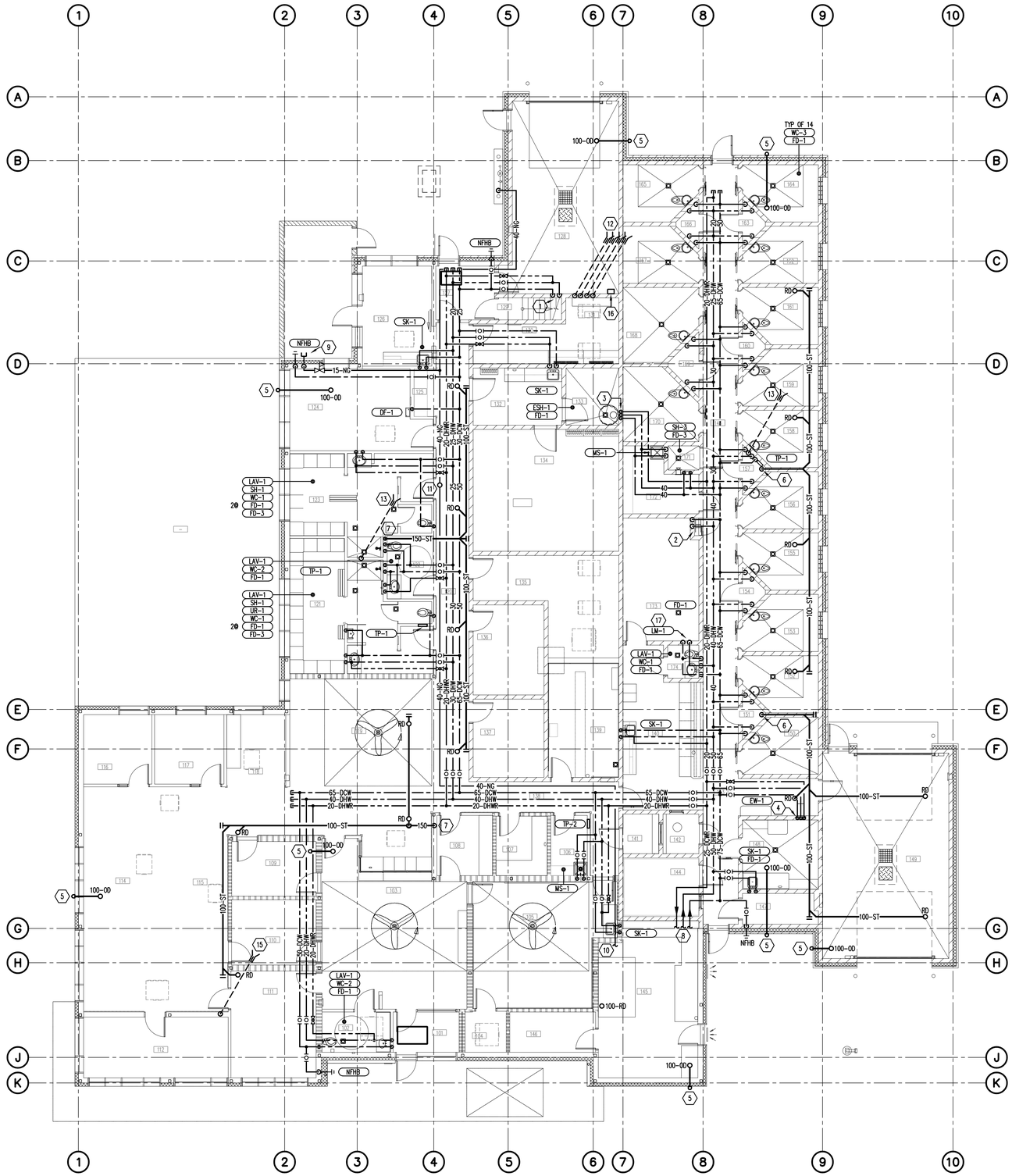
Drawing Title

FOUNDATION
PLUMBING PLAN

Drawing No.

M2.0



1 M2.1 MECHANICAL MAN FLOOR PLUMBING
SCALE: 1:100

KEYNOTES:

1. 20 DHW & DCW PIPE(S) WITHIN CONCRETE BLOCK WALL TO WASH DOWN STATION WD-1. INSULATE PIPING WITH AP ARMAFLEX CLOSED CELL INSULATION. WASH DOWN STATION TO BE 1000mm A.F.F.
2. 20 DHW & DCW PIPE(S) WITHIN WALL FOR HOSE REEL TO WASH DOWN STATION WD-2. INSULATE PIPING WITH AP ARMAFLEX CLOSED CELL INSULATION. PIPE OUTLET OF WD-2 TO INLET OF HOSE REEL. WD-2 TO BE IN RECESS BOX ACCESSIBLE FROM ROOM 172. WASH DOWN STATION TO BE 1000mm A.F.F. HOSE, NOZZLE AND PIPE.
3. DHW & DCW PIPES DOWN TO MIXING VALVE FOR EMERGENCY SHOWER. REFER TO DETAIL 1 ON DWG M8.1 FOR FURTHER DETAILS. SHOWER CONTROL AND MIXING VALVE TO BE LOCATED IN RECESSED STEEL BOX ACCESSIBLE FROM ROOM. POWDER COAT STEEL BOX TO MATCH WALL COLOR.
4. PROVIDE TRAP PRIMER ON EYEWASH P-TRAP. REFER TO DETAIL 2 EMERGENCY EYE/ FACE WASH SCHEMATIC ON DWG M8.1.
5. OVERFLOW DRAIN TERMINATION c/w BIRD SCREEN. REFER TO ARCHITECTURAL PLANS FOR ELEVATION.
6. 100-RWL DOWN TO BELOW. REFER TO DWG M2.0 FOR CONTINUATION.
7. 150-RWL DOWN TO BELOW. REFER TO DWG M2.0 FOR CONTINUATION.
8. 75-DCW, 50-DHW, AND 25-DHWR FROM MECHANICAL ROOM. REFER TO DWG M6.0 FOR CONTINUATION.
9. TERMINATE GAS LINE THRU WALL TO STAINLESS STEEL WALL MOUNTED GAS PLUG. BURNABY MANUFACTURING MODEL G0101-DBL-SS.
10. 40-NG TO MECHANICAL ROOM. REFER TO DWG M6.0 FOR CONTINUATION.
11. 25-NG UP TO ROOF.
12. 50ømm VENTS FROM OIL INTERCEPTOR UP TO 100ø VENT TERMINAL THRU ROOF.
13. 75ømm MAIN PLUMBING VENT UP TO 100ø mm TERMINAL THRU ROOF.
14. 75ømm MAIN PLUMBING VENT UP TO 100ø mm TERMINAL THRU ROOF.
15. 100ø BUILDING VENT TO 100ø VENT TERMINAL THRU ROOF.
16. OIL INTERCEPTOR LEVEL INDICATOR. MOUNT 1500mm A.F.F.
17. LM-1, FIRE RATED WASHING MACHINE OUTLET BOX WITH 50mmø DRAIN, TWO QUARTER TURN BRASS BALL VALVES AND FACE PLATE. OATEY 38470 OR SIMILAR.

GENERAL NOTES:

1. SET BACK ALL PLUMBING VENT STACKS A MINIMUM 3 METERS FROM EXTERIOR BUILDING WALL AND OR CLEAR STORY WINDOW. GOAL IS TO NOT SEE VENT FROM THE GROUND OR THRU CLERESTORY WINDOW.
2. NO OVERHEAD PLUMBING IN ROOMS 132, 133, 134, 136, AND 137.
3. OVERFLOW DRAINS TO BE ROUTED AS PER ARCHITECTURAL ELEVATIONS.
4. VENT ALL PLUMBING AS PER THE LATEST EDITION OF THE NATIONAL PLUMBING CODE.
5. ALL PIPING TO BE INSTALLED INSIDE WALLS, CEILINGS, AND SERVICE CHASES UNLESS OTHERWISE NOTED.

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GOVERNMENT BUILDING

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Drawing Title

MAIN FLOOR
PLUMBING PLAN

Drawing No.

M2.1

STEPHENS KOZAK ACI
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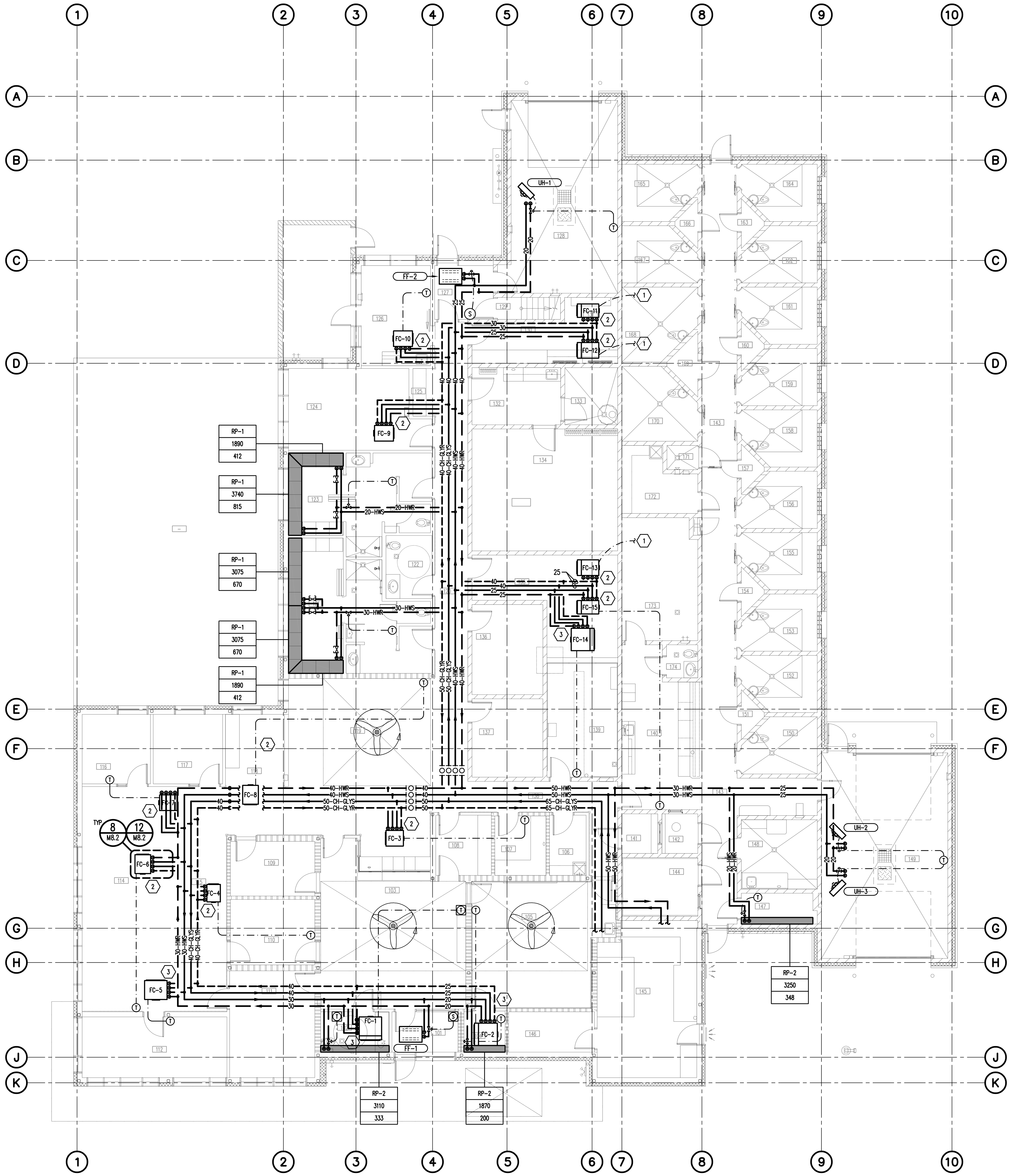
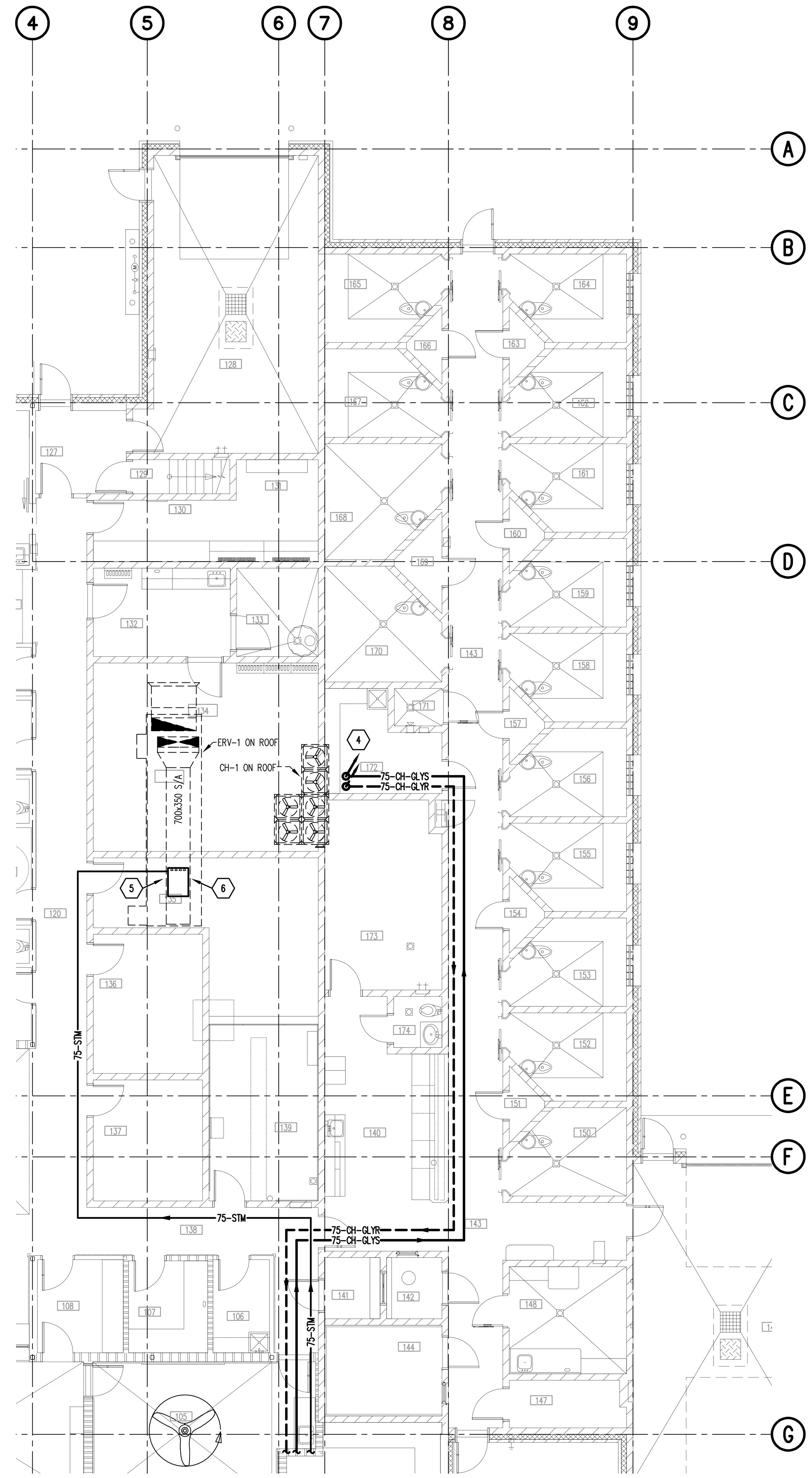


1 MECHANICAL MAIN FLOOR HEATING & COOLING
M3.0 SCALE: 1:100



2 PIPING TO CHILLER AND STEAM HUMIDIFIER
M4.0 SCALE: 1:100

KEYNOTES:

1. CONTROLLED VIA TEMPERATURE SENSOR IN RETURN AIR FROM CELLS.
2. 20-HWS, 20-HWR, 20-CH-GLYS, AND 20-CH-GLYR TO FAN COIL.
3. 20-HWS, 20-HWR, 25-CH-GLYS, AND 25-CH-GLYR TO FAN COIL.
4. 75ø GLYS & 75ø GLYR PIPING UP TO CHILLER ON ROOF.
5. PIPE 75ømm STEAM LINE INTO ULTRASORB STEAM DISPERSION TUBE PANEL AT THIS LOCATION. PIPE CONDENSATE FROM HUMIDIFIER DRAIN TO MOP SINK LOCATED IN ROOM 172. PROVIDE DRAIN COOLER.
6. SECTION OF 700x350 SUPPLY AIR DUCT LOCATED IN ROOM 135 CONTAINING THE ULTRASORB STEAM DISPERSION TUBE PANEL TO BE OF ALUMINUM CONSTRUCTION.

GENERAL NOTES:

1. CLEAR 3-DIMENSIONAL ZONE TO BE PRESERVED TO FACILITATE FAN COIL SERVICING TO DIMENSIONS INDICATED. HEIGHT OF CLEAR ZONE TO EXTEND FROM THE UNDERSIDE OF CEILING DIRECTLY BELOW TO WITHIN 100 OF THE UNDERSIDE OF STRUCTURAL DECK.

   NO ENCROACHMENT BY ARCHITECTURAL, STRUCTURAL, MECHANICAL, OR ELECTRICAL ELEMENT IS PERMITTED, WITHOUT EXCEPTION, UNLESS REVIEWED IN ADVANCE WITH THE PRIME CONSULTANT. THIS INCLUDED SERVICES TO THE FANCOIL WITH MUST BE CAREFULLY COORDINATED TO RESPECT THE SERVICE ZONE.

   SUPPLY ALL ADDITIONAL MATERIALS AND LABOUR TO ENSURE COMPLIANCE, WHERE SERVICES ARE FOUND TO ENCROACH ON THESE CLEAR ZONES THEY WILL BE REQUIRED TO BE RELOCATED AT NO ADDITIONAL COST.
2. NO GLYCOL LINES OVER ROOMS 132, 133, 134, 136, AND 137.
3. 20-HWS AND 20-HWR TO ALL TERMINAL UNITS UNLESS NOTED OTHERWISE.

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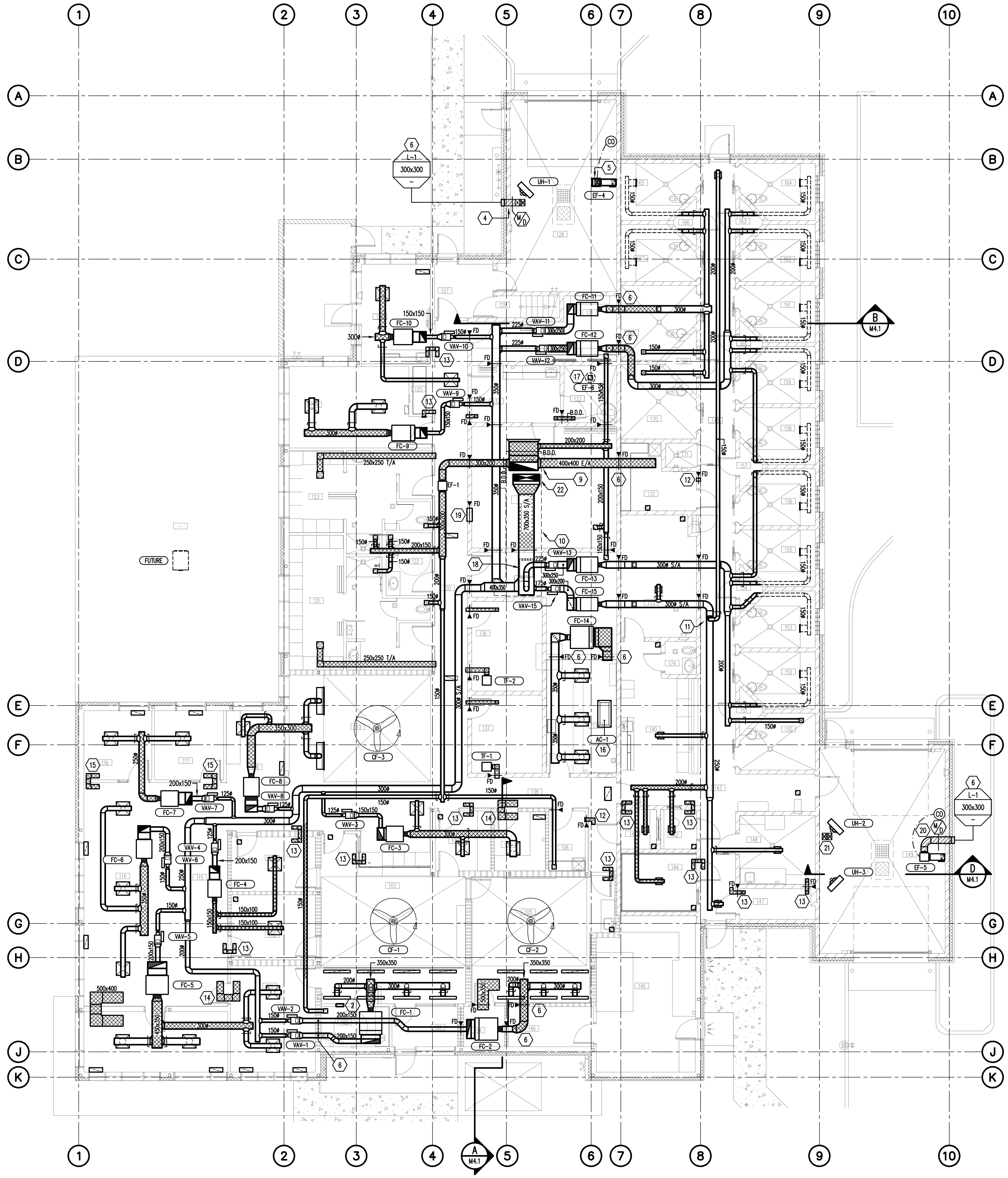
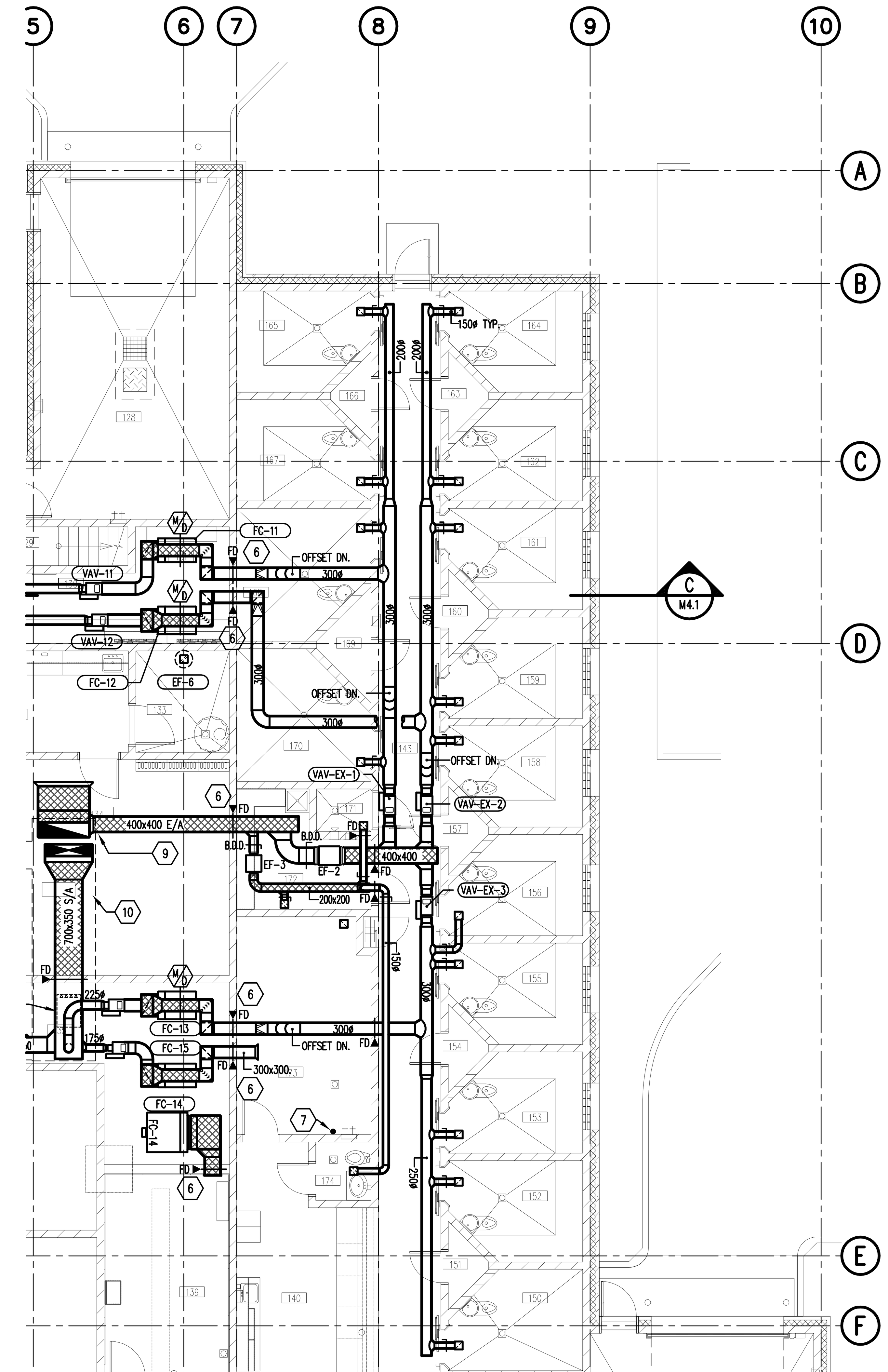
Drawing Title
MAIN FLOOR HEATING AND COOLING PLAN

Drawing No.
M3.0



1
M4.0
PARTIAL MAIN FLOOR VENTILATION
SCALE: 1:100



2
M4.0
SECURE AREA RETURN / EXHAUST VENTILATION
SCALE: 1:100

KEYNOTES:

1. 750x300 EGG CRATE GRILLE AT CEILING.
2. 350x550 TRANSFER AIR OPENING THRU WALL IN CEILING SPACE.
3. 500x250 LOUVERED FACE DOUBLE DEFLECTION SUPPLY GRILLE. GRILLE IS BLANKED OFF AND DUCT BEHIND GRILLE PAINTED BLACK. THIS KEEPS THE GRILLES IN ROOM EVEN ACROSS THE WALL.
4. 300x200 OUTSIDE AIR TRANSFER DUCT. THERMALLY INSULATE DUCT AND PROVIDE MOTORIZED DAMPER AT WALL OUTLET. PROVIDE 300x200 WIRE MESH GRILLE ON OUTLET INSIDE OF ROOM AND 300x300 LOUVER AT WALL INLET. REFER TO SECTION "D" FOR GENERAL DUCT INSTALLATION ARRANGEMENT.
5. 300x200 EXHAUST AIR DUCT UP TO GOOSENECK ON ROOF. THERMALLY INSULATE DUCT AND PROVIDE MOTORIZED DAMPER AT ROOF OUTLET. REFER TO SECTION "D" FOR GENERAL DUCT INSTALLATION ARRANGEMENT.
6. PROVIDE SECURITY BARS THRU OPENING.
7. 100ø DRYER VENT UP TO GOOSENECK ON ROOF.
8. SUPPLY AIR GRILLE TO BE CEILING MOUNTED.
9. THE EXHAUST AIR WILL CONNECT INTO THE RETURN AIR PLENUM OF THE ROOF TOP UNIT AT THE HIGHEST POINT POSSIBLE AS PER CODE.
10. DASHED LINE REPRESENT OUTLINE OF ENERGY RECOVERY UNIT ON ROOF REFER TO DWG M7 FOR FURTHER INFORMATION.
11. 150ø S/A DUCT UP INTO JOIST SPACE.
12. INSTALL 150x150 TRANSFER AIR OPENING THRU WALL IN CEILING SPACE OF STORAGE ROOM.
13. 150x150 TRANSFER AIR DUCT C/W ACOUSTIC INSULATION.
14. 300x350 TRANSFER AIR DUCT C/W ACOUSTIC INSULATION.
15. 200x250 TRANSFER AIR DUCT C/W ACOUSTIC INSULATION.
16. SPLIT AIR CONDITIONER PLENUM SECTION AC-1. SUSPEND FROM CEILING. PROVIDE SPRING ISOLATORS ON HANGERS.
17. PROVIDE 200x200 INSULATED DUCT FROM CEILING GRILLE UP TO EXHAUST FAN EF-6 ON ROOF. PROVIDE FIRE DAMPER AT CEILING EXIT, SECURITY BARS AND INSULATED MOTORIZED DAMPER AT ROOF EXIT.
18. LOCATION OF ULTRASORB STEAM DISPERSION TUBE PANEL.
19. 600x500 TRANSFER AIR OPENING THRU WALL ABOVE CORRIDOR CEILING.
20. 300x300 EXHAUST AIR OUT THRU SIDE WALL LOUVER. THERMALLY INSULATE DUCT AND PROVIDE MOTORIZED DAMPER AT WALL OUTLET.
21. 300x200 TRANSFER AIR DUCT UP TO GOOSENECK ON ROOF. REFER TO SECTION "D" FOR GENERAL DUCT INSTALLATION ARRANGEMENT.
22. PROVIDE ACOUSTIC DUCT LINING ON VERTICAL S/A AND R/A DUCT SECTIONS UP TO ERV-1 ON ROOF.

GENERAL NOTES:

1. REFER TO DRAWING M4.1 "ROOM GRILLE SCHEDULE" FOR DIFFUSER, GRILLES AND LOUVER TYPES.
2. ACCESS PANELS FOR BOTTOM PULL OUT FILTERS FROM FAN COILS LOCATED ABOVE DRY WALL CEILINGS, TO BE LOCATED DIRECTLY BELOW FILTER SECTION. COORDINATE LOCATIONS WITH ALL DISCIPLINES. THE GOAL IS TO ENSURE MAINTENANCE STAFF CAN EASILY REMOVE FILTER.
3. PROVIDE ACCESS PANEL FOR ACCESS TO CONTROL MODULE, VALVES, PIPING AND DRAIN PAN FOR FAN COILS LOCATED ABOVE DRY WALL CEILINGS. COORDINATE LOCATIONS WITH ALL DISCIPLINES.
4. ENSURE ACCESS TO BOTTOM PULL OUT FILTERS FROM FAN COILS LOCATED ABOVE T-BAR CEILINGS. COORDINATE LOCATIONS WITH ALL DISCIPLINES. THE GOAL IS TO ENSURE MAINTENANCE STAFF CAN EASILY REMOVE FILTER.
5. PROVIDE BELL MOUTH OPENINGS ON ALL OPEN ENDED RETURN / EXHAUST DUCT INLETS.
6. COORDINATE MOUNTING HEIGHT OF FAN COILS TO ALLOW FOR GRAVITY DRAINING OF FAN COIL CONDENSATE DRAINS WERE POSSIBLE. WERE UNABLE, ENABLE CONDENSATE PUMP ON FAN COIL AND RUN DRAIN LINE TO NEAREST MOP SINK. COMBINE PIPING RUNS WERE POSSIBLE.
7. REFER TO DRAWING M3.0 FOR THERMOSTAT LOCATIONS.
8. CLEAR 3-DIMENSIONAL ZONE TO BE PRESERVED TO FACILITATE FAN COIL SERVICING TO DIMENSIONS INDICATED. HEIGHT OF CLEAR ZONE TO EXTEND FROM THE UNDERSIDE OF CEILING DIRECTLY BELOW TO WITHIN 100 OF THE UNDERSIDE OF STRUCTURAL DECK.

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   SUPPLY ALL ADDITIONAL MATERIALS AND LABOUR TO ENSURE COMPLIANCE, WHERE SERVICES ARE FOUND TO ENCROACH ON THESE CLEAR ZONES THEY WILL BE REQUIRED TO BE RELOCATED AT NO ADDITIONAL COST.
9. ACOUSTICALLY SEAL DUCTWORK PENETRATIONS THROUGH ACOUSTIC RATED WALLS. ROOMS 105, 107, 109, 110, 111, 141, 142, 144.
10. ACOUSTICALLY LINE ALL INTAKES TO FAN FAN COIL UNITS.

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ARCHITECTS AND PLANNERS

Notes:

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CANADA

Issues/Revisions

No.	Description	Date	By
0	ISSUED FOR TENDER	2017.09.12	QK

Seal

PROFESSIONAL ENGINEER
QUENTON KUSIK
ALBERTA
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2017.09.12

PERMIT TO PRACTICE
WILLIAMS ENGINEERING CANADA INC.
PERMIT NUMBER
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The Association of Prof. Engineers and Geoscientists of Alberta.

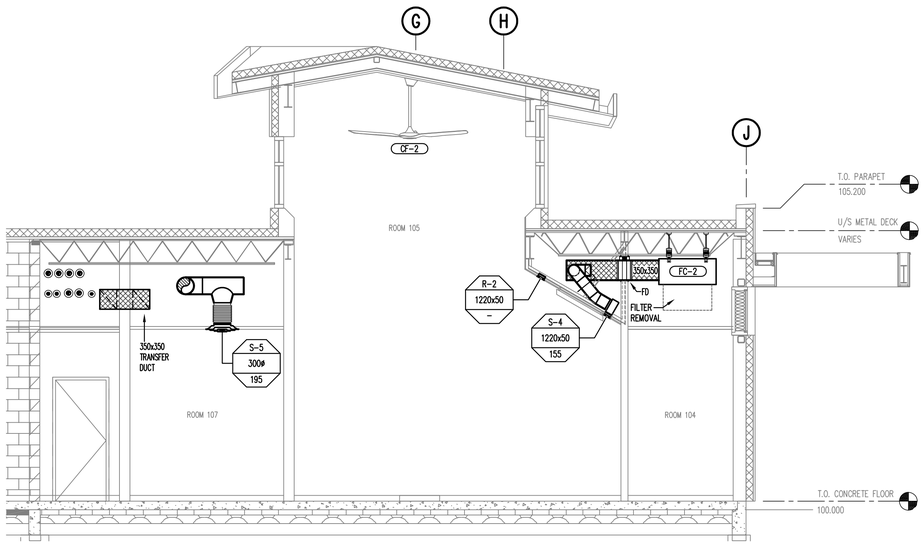
Client
WABASCA-DESMARAIS

Project
WABASCA / DESMARAIS GOVERNMENT BUILDING

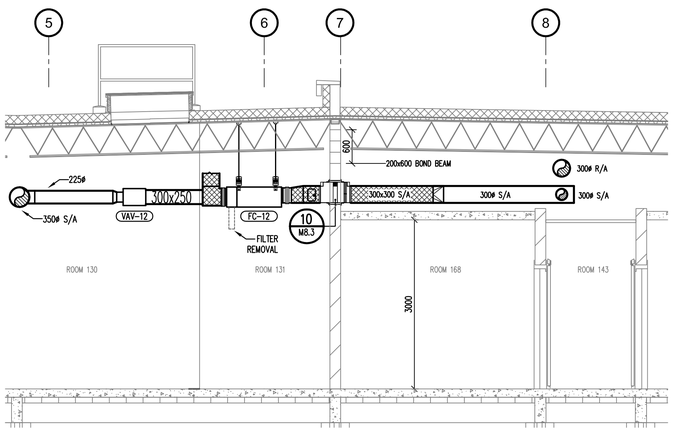
Scale	AS NOTED	Designed By	QK
Project No.	9031	Drawn By	QK
Date	2017.04.28	Checked By	QK

Drawing Title
MAIN FLOOR VENTILATION PLAN

Drawing No.
M4.0



A M4.1 **SECTION A – ROOM 105**
SCALE: 1:50



B M4.1 **SECTION B – ROOM 130 FAN COIL SUPPY**
SCALE: 1:50

KEYNOTES:

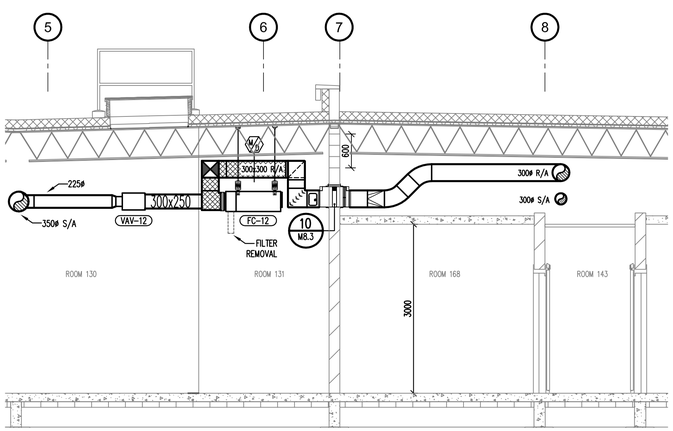
1. PROVIDE AND INSTALL A 1200mm LONG, 50mm X 50mm X 1.5mm GALVANIZED SECTION OF ANGLE IRON ALONG EACH SIDE OF THE 150x250 DUCT. SECURE ANGLE IRON TO WALL WITH LAG SCREWS. SECURE THE DUCT TO THE ANGLE IRON WITH SECURITY TYPE SCREWS. THE 150x250 VERTICAL SECTION OF DUCT IS TO BE CONSTRUCTED FROM 10 GAUGE GALVANIZED METAL. THE GOAL IS TO ENSURE NO FINGERS OR OBJECTS CAN BE WEDGED BEHIND THE DUCT. PRIME AND PAINT DUCT AND ANGLE IRON TO MATCH WALL COLOR.
2. FLUSH GRILLE INSTALLATION. NO SHARP EDGES OR CORNERS ALLOWED.

ROOM GRILLE SCHEDULE

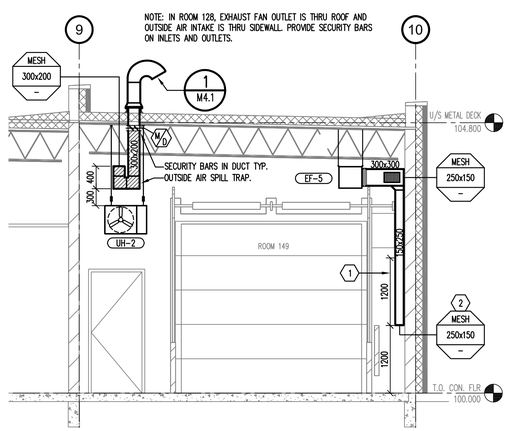
FAN COIL	ROOM NO.	GRILLE TYPE	SIZE	VOLUME [L/S]	QTY	NOTES		FAN COIL	ROOM NO.	GRILLE TYPE	SIZE	VOLUME [L/S]	QTY	NOTES
FC-1	103	S-4	1220x50	125	4			FC-13	150	S-2	250x250	50	1	2
	103	R-1	200x200	–	1				150	E-2	250x250	50	1	1
	103	R-2	1220x50	–	4				152	S-2	250x250	50	1	
FC-2	105	S-4	1220x50	155	3				152	E-2	250x250	50	1	1
	105	R-1	200x200	–	1				153	S-2	250x250	50	1	
	105	R-2	1220x50	–	3				153	E-2	250x250	50	1	1
FC-3	107	S-5	300ø	195	1				155	S-2	250x250	50	1	
	107	R-1	600x500	–	1				155	E-2	250x250	50	1	1
	108	S-1	150ø	25	1				156	S-2	250x250	50	1	
	108	R-1	200x200	–	1				156	E-2	250x250	50	1	1
FC-4	109	S-1	150ø	30	1			FC-14	139	S-1	250ø	200	3	
	109	R-1	200x200	–	1				139	E-3	400x400	600	1	
	110	S-1	150ø	30	1			FC-15	140	S-3	150ø	50	1	
	110	R-1	200x200	–	1				140	E-3	200x200	–	1	
FC-5	111	S-1	200ø	120	2				141	S-3	150ø	15	1	
	111	R-1	600x200	–	2				141	E-3	200x200	–	1	
	112	S-1	300ø	220	2				142	S-3	150ø	15	1	
	112	R-1	600x200	–	2				142	E-3	200x200	–	1	
FC-6	114	S-1	200ø	130	3				143	S-3	150ø	55	2	
	114	R-1	600x200	–	2				143	E-3	200x200	–	1	
FC-7	116	S-1	200ø	110	1				144	S-3	150ø	35	1	
	116	R-1	600x200	–	1				144	E-3	200x200	–	1	
	117	S-1	200ø	85	1				148	S-3	150ø	35	1	
	117	R-1	600x200	–	1				148	E-3	150x150	–	1	
FC-8	118	S-1	150ø	75	1				173	S-3	150ø	20	1	
	118	R-1	600x200	–	1				173	E-3	200x200	–	1	
	119	S-4	1220x50	165	2			ROOMS	102	E-3	150x150	25	1	
	119	R-1	600x200	–	1				106	E-3	150x150	25	1	
FC-9	124	S-1	250ø	155	2				106	E-3	150x150	–	1	
	124	E-3	150x150	–	1				121	E-3	200x200	25	1	
FC-10	120	S-1	150ø	25	1				121	E-3	200x200	50	1	
	120	R-1	600x200	–	1				121	E-3	300x300	–	1	
	126	S-1	250ø	215	1				122	E-3	200x200	25	1	
	126	R-1	600x200	–	1				123	E-3	200x200	25	1	
FC-11	165	S-2	250x250	50	1				123	E-3	200x200	50	1	
	165	E-2	250x250	50	1	1			123	E-3	300x300	–	1	
	167	S-2	250x250	50	1				128	E-1	250x150	–	2	
	167	E-2	250x250	50	1	1			131	E-4	200x200	25	1	
	168	S-2	250x250	50	1	2			132	E-4	200x200	–	2	1
	168	E-2	250x250	50	1	1			133	E-4	200x200	60	1	1
	170	S-2	250x250	50	1	2			133	E-4	200x200	–	1	1
	170	E-2	250x250	50	1	1			134	E-4	200x200	25	1	1
FC-12	158	S-2	250x250	50	1				135	E-4	200x200	25	1	
	158	E-2	250x250	50	1	1			136	E-4	200x200	–	1	
	159	S-2	250x250	50	1				137	E-4	200x200	–	1	
	159	E-2	250x250	50	1	1			138	R-1	600x300	–	1	
	161	S-2	250x250	50	1				147	E-3	150x150	–	2	
	161	E-2	250x250	50	1	1			149	E-1	250x150	1	2	
	162	S-2	250x250	50	1				171	E-3	200x200	25	1	
	162	E-2	250x250	50	1	1			172	E-3	200x200	25	1	
	164	S-2	250x250	50	1				174	E-3	200x200	25	1	
	164	E-2	250x250	50	1	1								

NOTES:

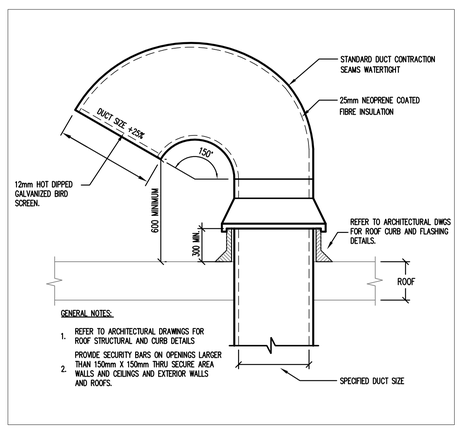
1. PROVIDE SECURITY BARS.
2. SUPPLY AIR GRILLE TO BE CEILING MOUNTED.



C M4.1 **SECTION C – ROOM 130 FAN COIL RETURN**
SCALE: 1:50



D M4.1 **SECTION C – ROOM 130 FAN COIL RETURN**
SCALE: 1:50



1 – **TYPICAL GOOSENECK**
SCALE: N.T.S.

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No.	Description	Date	By
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PROFESSIONAL ENGINEER ALBERTA QUENTON KUEHL 2017.09.12

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Client

WABASCA-DESMARAIS

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

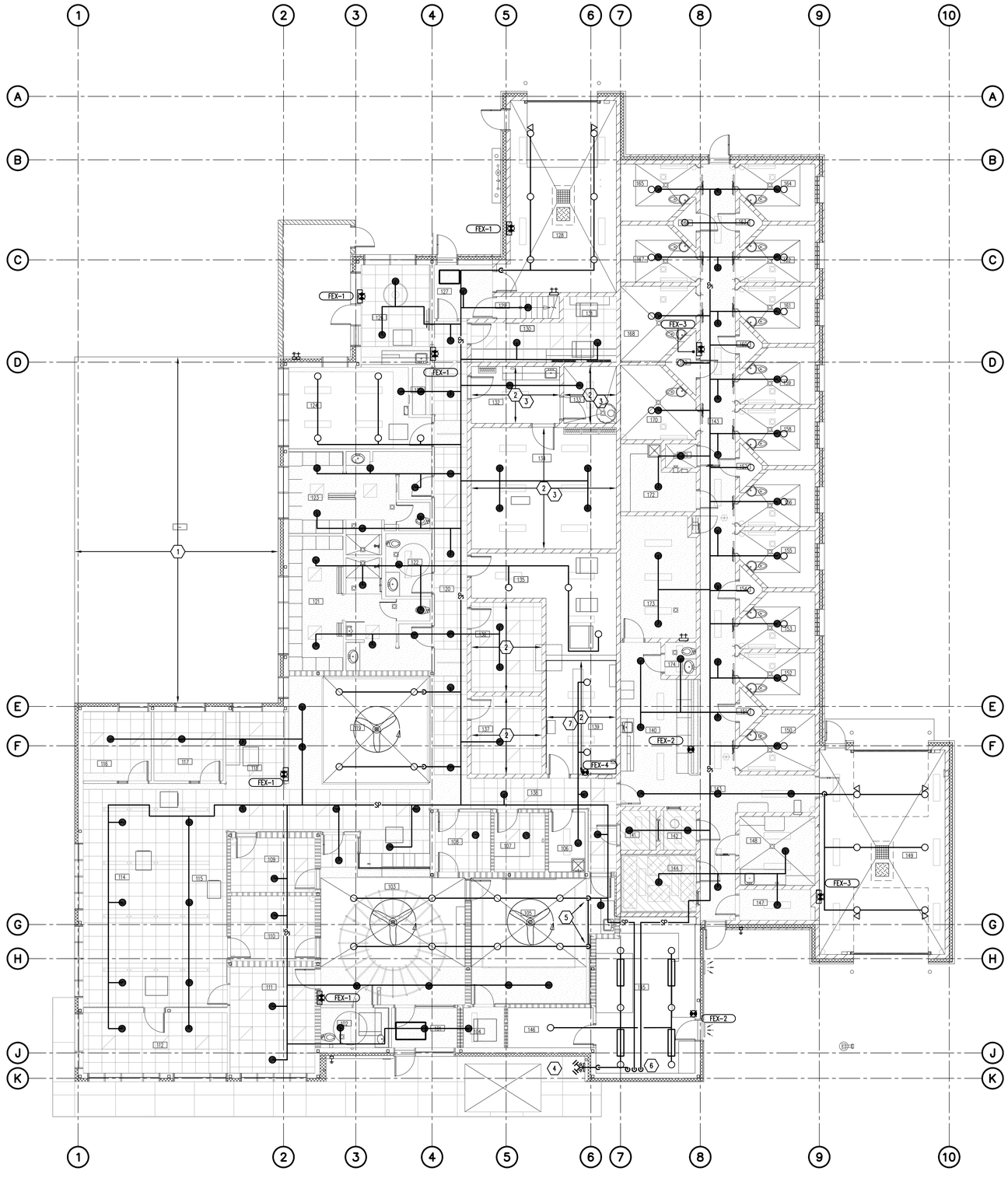
Scale	AS NOTED	Designed By	QK
Project No.	9031	Drawn By	QK
Date	2017.09.12	Checked By	QK

Drawing Title

MAIN FLOOR VENTILATION SECTIONS

Drawing No.

M4.1



KEYNOTES:

1. ACCOUNT FOR FUTURE EXPANSION IN THIS AREA AS PART OF SPRINKLER DESIGN.
2. NO SPRINKLER PIPING IN THIS SPACE OTHER THAN SPRINKLER PIPING SERVICING THIS SPACE.
3. SECURE AREA CONCRETE CAP CEILING AT THIS LOCATION. PENDANT TYPE SPRINKLER HEADS TO BE PIPED FROM ABOVE. SEAL PENETRATION AROUND SPRINKLER HEAD IN CONCRETE CEILING WATER TIGHT.
4. FIRE DEPARTMENT CONNECTION.
5. PIPING TO DROP DOWN IN FURRED OUT WALL.
6. DOWN TO SPRINKLER TREE.
7. PROVIDE PROTECTIVE CAGES ON SPRINKLER HEADS.

GENERAL NOTES:

1. FULLY RECESSED SPRINKLER HEADS WITH WHITE COVER PLATE TO BE USED IN ALL T-BAR AND DRYWALL CEILINGS.
2. APPROVED VANDAL PROOF SPRINKLER HEADS TO BE PROVIDED IN ROOMS 150, 152, 153, 155, 156, 158, 159, 161, 162, 164, 165, 167, 168, 170, 171, AND 174.
3. WHERE SPRINKLER HEADS ARE IDENTIFIED, THE CONTRACTOR SHALL CONFIRM THE LAYOUT AND PROVIDE ADDITIONAL SPRINKLER HEAD AS REQUIRED TO MEET CODE.
4. SPRINKLER CONTRACTOR TO DESIGN AND INSTALL SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA AND AUTHORITY HAVING JURISDICTION.
5. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF SPRINKLER PIPING WITH ALL OTHER PIPING, EQUIPMENT, DUCTWORK, AND ELECTRICAL INSTALLATIONS.
6. CLEAR 3-DIMENSIONAL ZONE TO BE PRESERVED TO FACILITATE FAN COIL SERVICING TO DIMENSIONS INDICATED. HEIGHT OF CLEAR ZONE TO EXTEND FROM THE UNDERSIDE OF CEILING DIRECTLY BELOW TO WITHIN 100 OF THE UNDERSIDE OF STRUCTURAL DECK.

   NO ENCROACHMENT BY ARCHITECTURAL, STRUCTURAL, MECHANICAL, FIRE PROTECTION, OR ELECTRICAL ELEMENT IS PERMITTED, WITHOUT EXCEPTION, UNLESS REVIEWED IN ADVANCE WITH THE PRIME CONSULTANT. THIS INCLUDED SERVICES TO THE FAN COIL WHICH MUST BE CAREFULLY COORDINATED TO RESPECT THE SERVICE ZONE.

   SUPPLY ALL ADDITIONAL MATERIALS AND LABOUR TO ENSURE COMPLIANCE, WHERE SERVICES ARE FOUND TO ENCROACH ON THESE CLEAR ZONES THEY WILL BE REQUIRED TO BE RELOCATED AT NO ADDITIONAL COST.

   ADD ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE FAN COIL ACCESS IS MAINTAINED.
7. COORDINATE SPRINKLER HEAD LAYOUT WITH AS-BUILT CEILING LAYOUT.
8. PROVIDE ACOUSTIC SEALANT ON ALL PIPE PENETRATIONS THROUGH ACOUSTIC WALLS/CEILINGS. REFER TO ARCHITECTURAL ACOUSTIC WALL RATING PLAN AND SPECIFICATIONS.
9. SPRINKLER DESIGN SHOP DRAWINGS ARE TO BE SUBMITTED FOR REVIEW WITHIN 60 DAYS OF CONTRACT AWARD. SPRINKLER INSTALLATION NOT TO BEGIN UNTIL SPRINKLER SHOP DRAWINGS ARE REVIEWED.
10. PROVIDE AND INSTALL TWO FEX-2 TYPE EXTINGUISHERS IN THE OUT-BUILDING. REFER TO DWG. M1.0..

1 MECHANICAL MAN FLOOR FIRE PROTECTION
M5.0 SCALE: 1:100

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PROFESSIONAL ENGINEER ALBERTA — QUENTON KWEE — 2017.09.12

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Client

WABASCA-DESMARAIS

Project

WABASCA / DESMARAIS
GOVERNMENT BUILDING

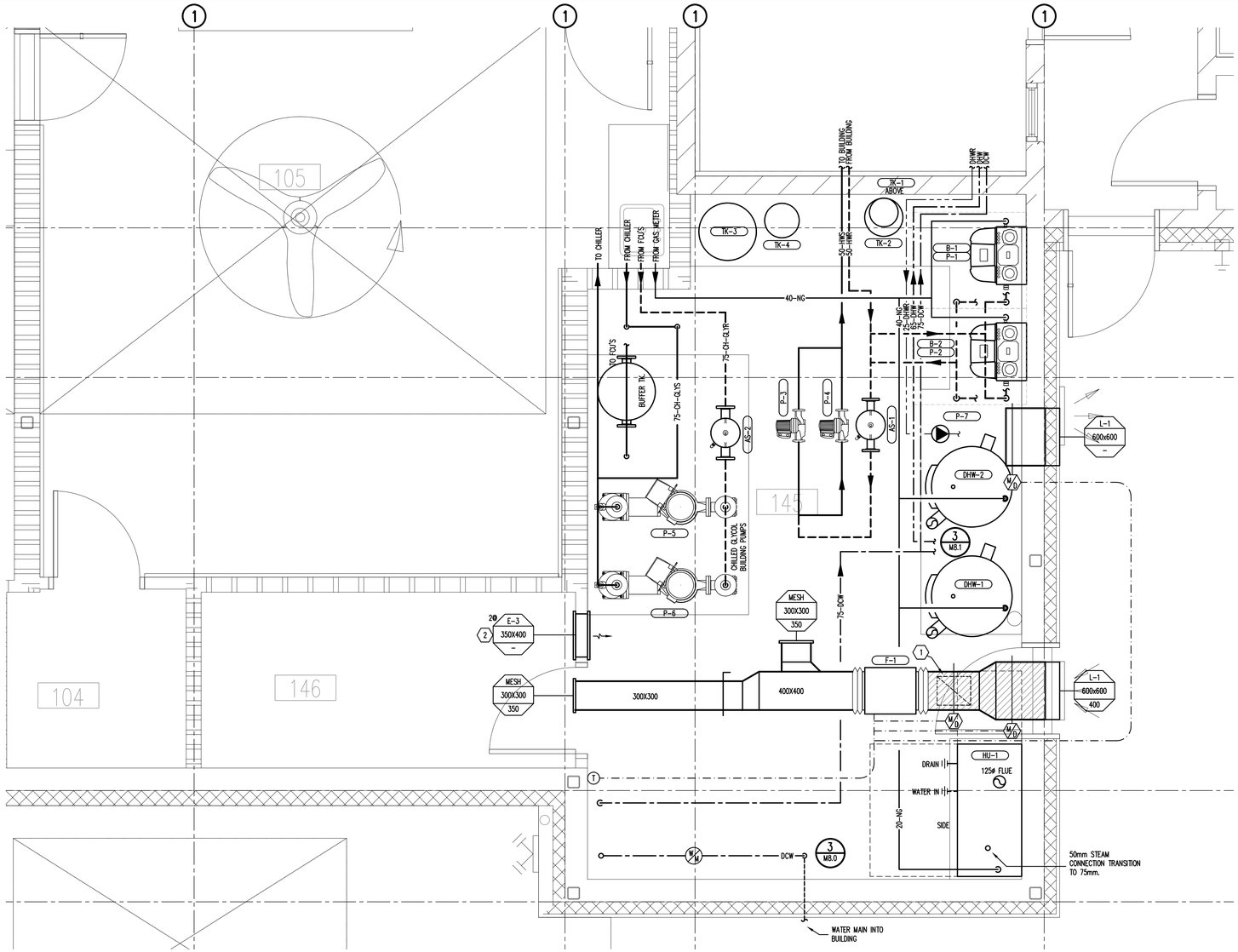
Scale	AS NOTED	Designed By	QK
Project No.	9031	Drawn By	QK
Date	2017.09.12	Checked By	PC

Drawing Title

MAIN FLOOR
FIRE PROTECTION

Drawing No.

M5.0



KEYNOTES:

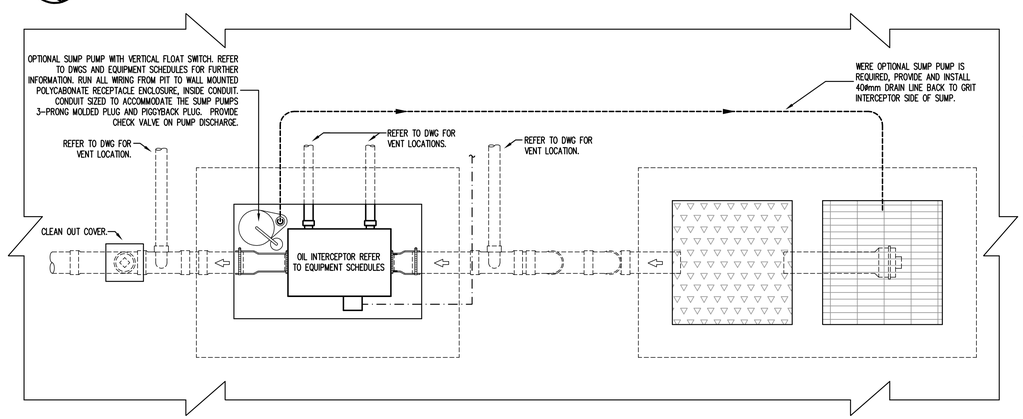
1. 350x300 MIXED AIR MOTORIZED DAMPER.
2. MOUNT GRILLE AS HIGH AS POSSIBLE.

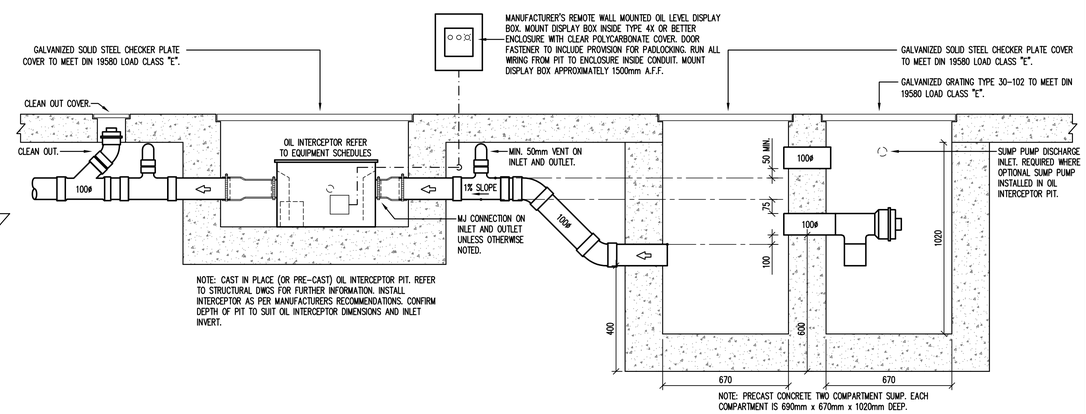
GENERAL NOTES:

1. VENT DWHs, BOILERS, AND HUMIDIFIER UP THROUGH ROOF AS PER MANUFACTURER INSTRUCTIONS. DEDICATED COMBUSTION AIR FROM INTAKES ON ROOF FOR EACH APPLIANCE TO BE INSTALLED AS PER MANUFACTURER INSTRUCTIONS. REFER TO ROOF PLAN FOR LOCATIONS OF TERMINATIONS.
2. ALL FLOOR MOUNTED EQUIPMENT TO BE ISNTALLED ON HOUSE-KEEPING PADS.
3. REFER TO PIPING SCHEMATICS FOR COMPLETE PIPING AND VALVE DETAILS.
4. PROVIDE DCW AND DHW HOSE BIBS IN MECHANICAL ROOM.

1 MECHANICAL ROOM

M6 SCALE: 1:25





NOTE: CAST IN PLACE (OR PRE-CAST) OIL INTERCEPTOR PIT. REFER TO STRUCTURAL DWGS FOR FURTHER INFORMATION. INSTALL INTERCEPTOR AS PER MANUFACTURERS RECOMMENDATIONS. CONFIRM DEPTH OF PIT TO SUIT OIL INTERCEPTOR DIMENSIONS AND INLET INVERT.

NOTE: PRECAST CONCRETE TWO COMPARTMENT SUMP. EACH COMPARTMENT IS 690mm x 670mm x 1020mm DEEP.

2 TWO COMPARTMENT SUMP WITH OIL INTERCEPTOR.

M2.0 SCALE: NTS

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WABASCA / DESMARAIS GOVERNMENT BUILDING

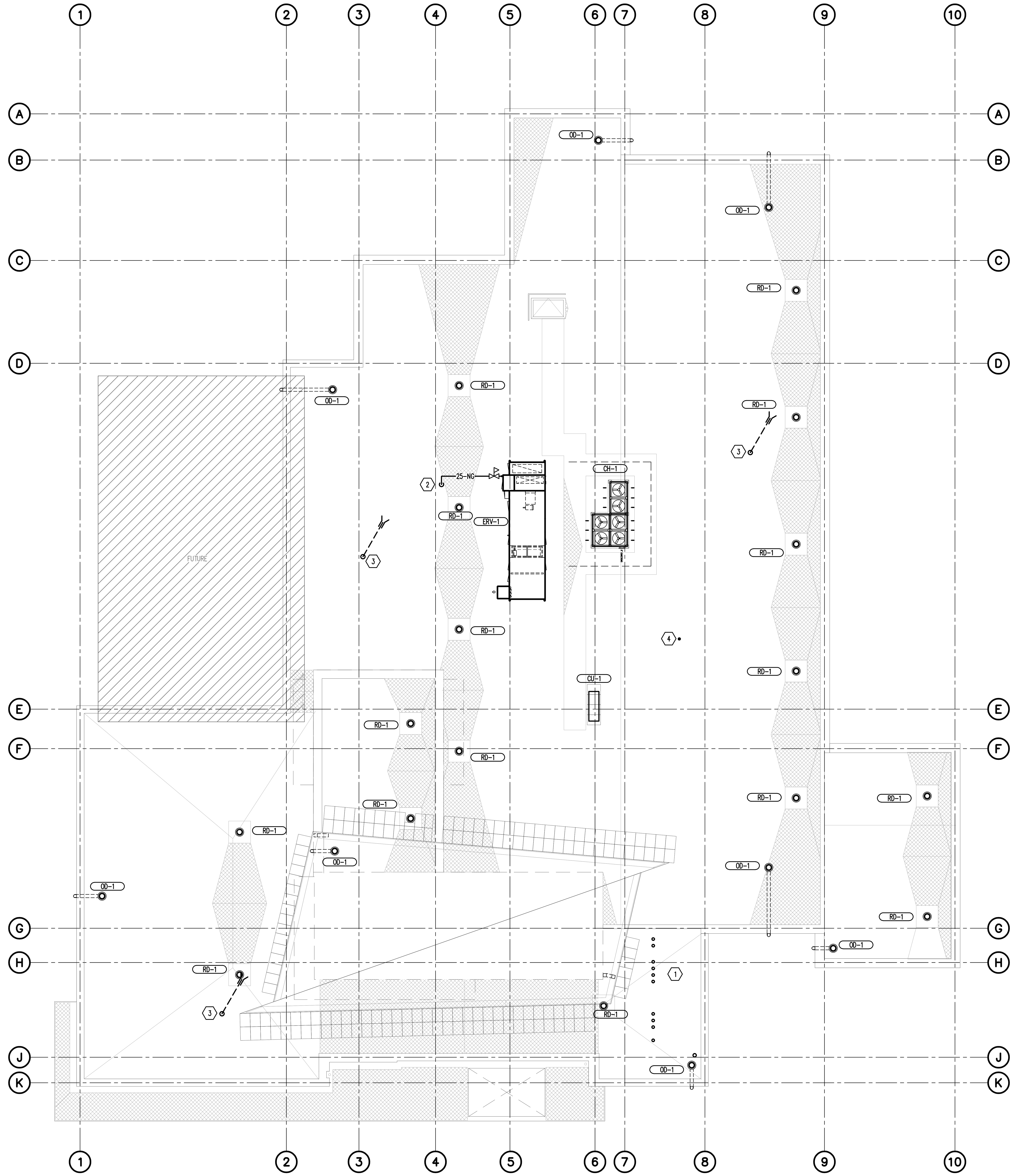
Scale	AS NOTED	Designed By	QK
Project No.	9031	Drawn By	QK
Date	2017.09.12	Checked By	QK

Drawing Title

MECHANICAL ROOM PLAN

Drawing No.

M6.0



1 M7.0 ROOF PLAN
SCALE: 1:100

KEYNOTES:

1. BOILER VENTS AND COMBUSTION AIR INTAKES. LOCATE VENTS AND COMBUSTION AIR INTAKES SO AS NOT TO BE VISIBLE FROM CLEARSTORY AND STREET.
2. 25-NG UP FROM CEILING SPACE BELOW c/w GUM BOX.
3. PLUMBING VENT.
4. 100ø DRYER VENT.

GENERAL NOTES:

1. COORDINATE LOCATION OF EQUIPMENT AND ROOF DRAINS WITH ARCHITECTURAL AND STRUCTURAL.
2. COORDINATE VENT TERMINATION LOCATIONS WITH ARCHITECTURAL.

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ALBERTA
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2017.09.12

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WABASCA / DESMARAIS
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Scale	AS NOTED	Designed By	QK
Project No.	9031	Drawn By	QK
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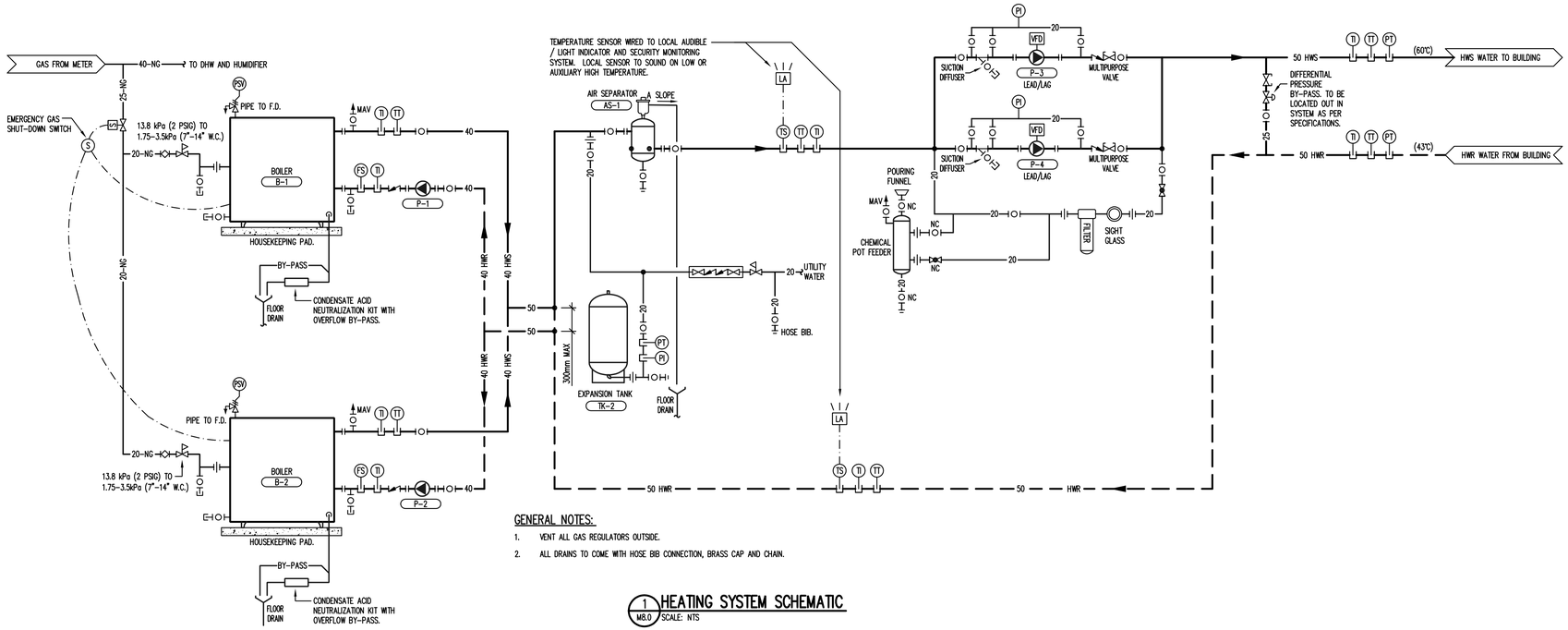
Drawing Title

MECHANICAL
ROOF PLAN

Drawing No.

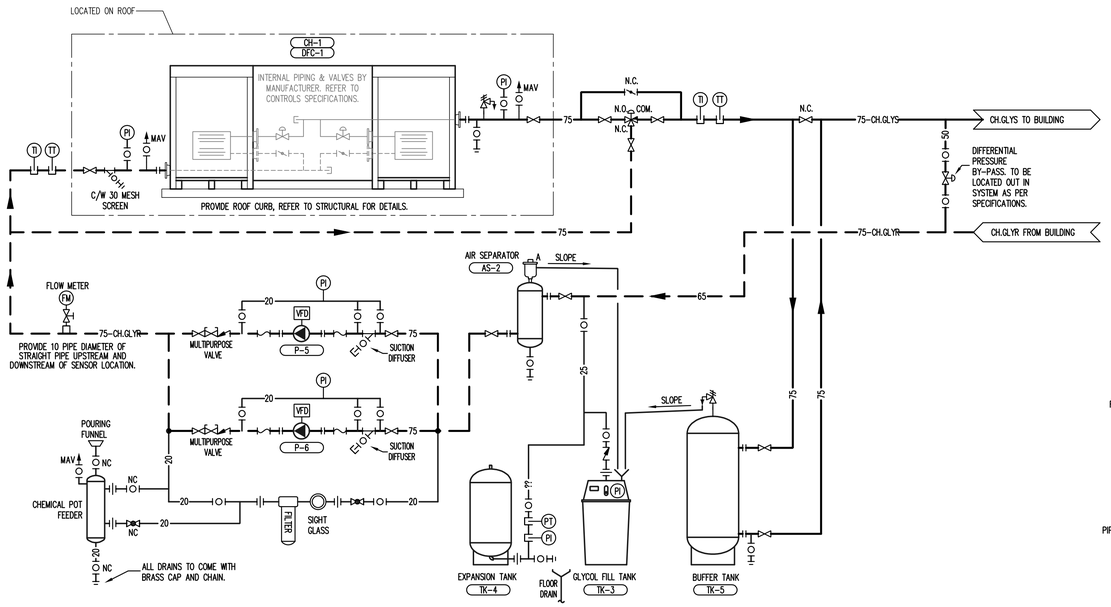
M7.0



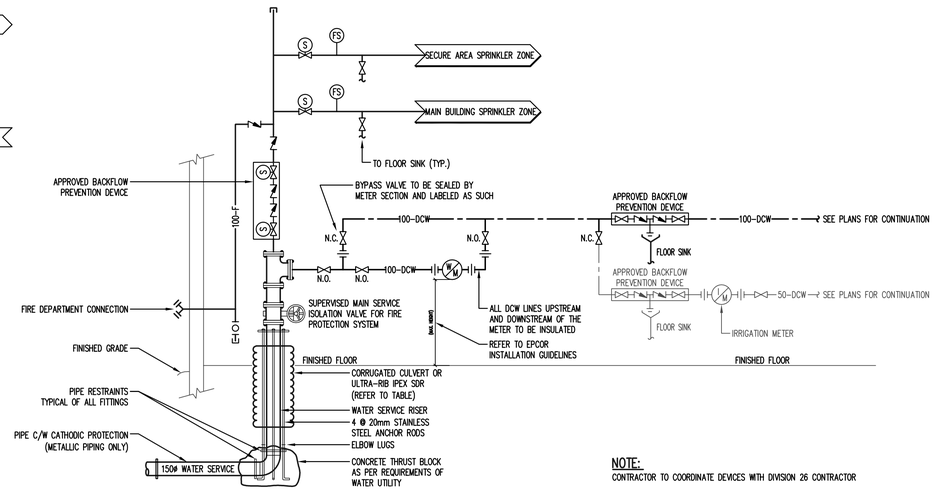
GENERAL NOTES:

1. VENT ALL GAS REGULATORS OUTSIDE.
2. ALL DRAINS TO COME WITH HOSE BIB CONNECTION, BRASS CAP AND CHAIN.

1 M8.0 **HEATING SYSTEM SCHEMATIC**
SCALE: NTS



2 M8.0 **CHILLED WATER SCHEMATIC FOR CHILLER**
SCALE: NTS



NOTE:
CONTRACTOR TO COORDINATE DEVICES WITH DIVISION 26 CONTRACTOR

3 M8.0 **BUILDING WATER SERVICE ENTRY**
SCALE: N.T.S.

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WILLIAMS ENGINEERING CANADA

Issues/Revisions

No.	Description	Date	By
0	ISSUED FOR TENDER	2017.09.12	QK

Seal

PERMIT TO PRACTICE
WILLIAMS ENGINEERING CANADA INC.
PERMIT NUMBER P 10527
The Association of Prof. Engineers and Geoscientists of Alberta.

Client

WABASCA-DESMARAIS

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

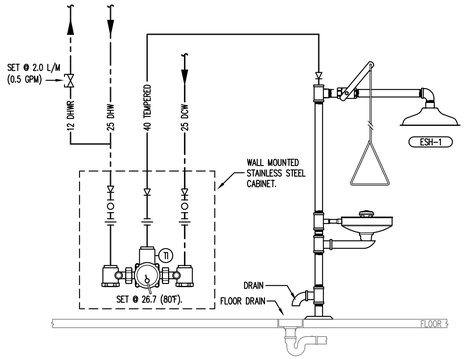
Scale	AS NOTED	Designed By	QK
Project No.	9031	Drawn By	QK
Date	2017.09.12	Checked By	PC

Drawing Title

MECHANICAL SCHEMATICS

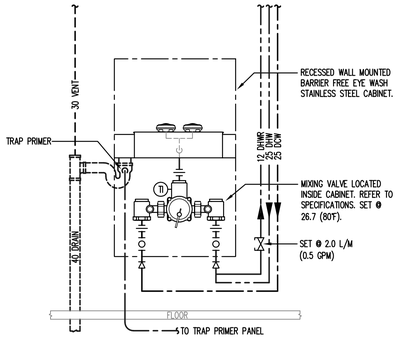
Drawing No.

M8.0



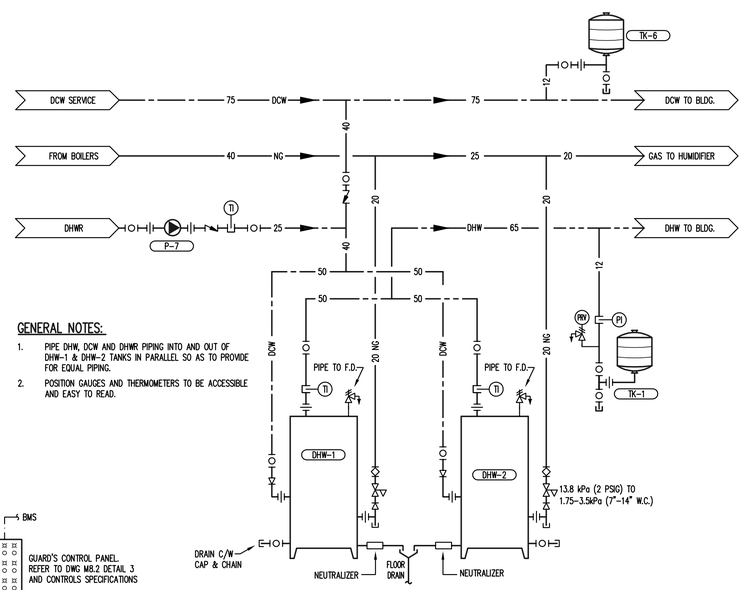
1 M8.1 EMERGENCY SHOWER EYE/ FACE WASH SCHEMATIC

SCALE: N.T.S.



2 M8.1 EMERGENCY EYE/ FACE WASH SCHEMATIC

SCALE: N.T.S.

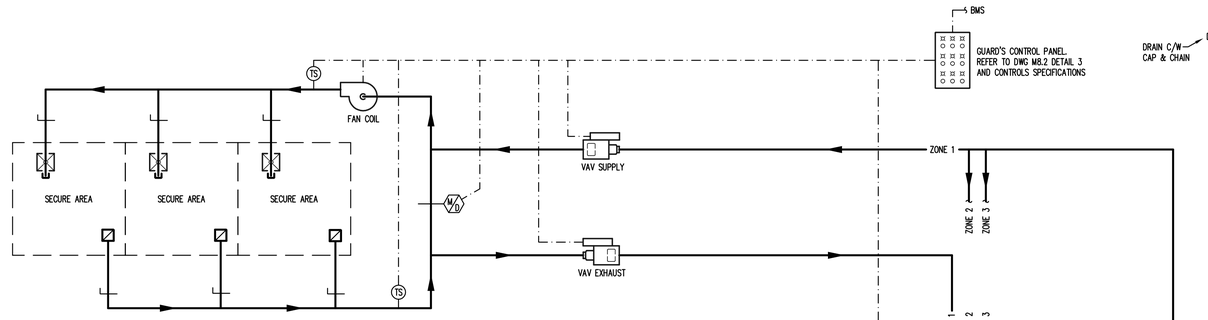


GENERAL NOTES:

1. PIPE DHW, DCW AND DHWR PIPING INTO AND OUT OF DHW-1 & DHW-2 TANKS IN PARALLEL SO AS TO PROVIDE FOR EQUAL PIPING.
2. POSITION GAUGES AND THERMOMETERS TO BE ACCESSIBLE AND EASY TO READ.

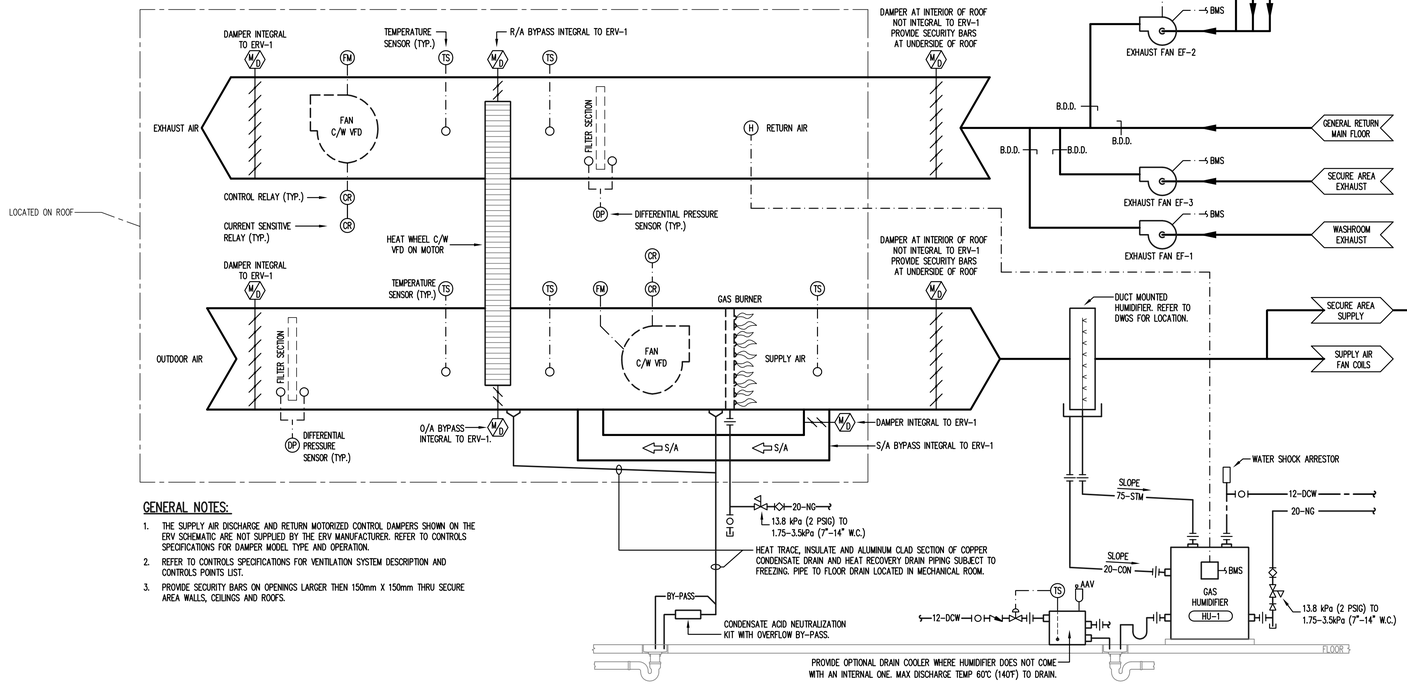
3 M8.1 DOMESTIC HOT WATER SCHEMATIC

SCALE: N.T.S.



TYPICAL SECURE AREA ZONE VENTILATION SCHEMATIC

REFER TO DWGS FOR NUMBER OF SECURE AREAS PER FAN COIL.



GENERAL NOTES:

1. THE SUPPLY AIR DISCHARGE AND RETURN MOTORIZED CONTROL DAMPERS SHOWN ON THE ERV SCHEMATIC ARE NOT SUPPLIED BY THE ERV MANUFACTURER. REFER TO CONTROLS SPECIFICATIONS FOR DAMPER MODEL TYPE AND OPERATION.
2. REFER TO CONTROLS SPECIFICATIONS FOR VENTILATION SYSTEM DESCRIPTION AND CONTROLS POINTS LIST.
3. PROVIDE SECURITY BARS ON OPENINGS LARGER THEN 150mm X 150mm THRU SECURE AREA WALLS, CEILINGS AND ROOFS.

4 M8.1 DETAIL – MAIN VENTILATION SYSTEM ERV-1

SCALE: NTS

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PROFESSIONAL ENGINEER ALBERTA QUENTON KUEK 2017-09-12

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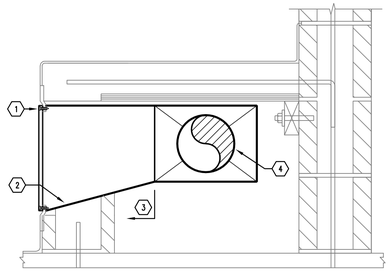
Drawing Title

MECHANICAL
SCHEMATICS

Drawing No.

M8.1

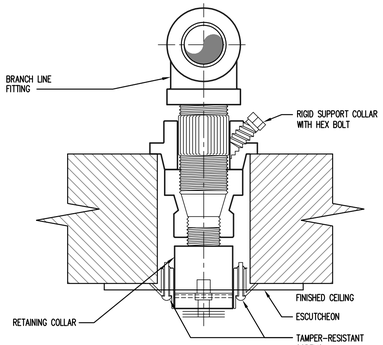


KEYNOTES:

1. METAL GRILLE SECURED TO BLOCKING WITH SECURITY SCREWS (TYPICAL).
2. SLOPE DUCT TOWARDS GRILLE.
3. PROVIDE S.S. DUCTWORK TO GRILLE FROM THIS POINT.
4. SUPPLY AIR DUCT TO TRANSITION INTO SHOP FABRICATED GRILLE TRANSITION.

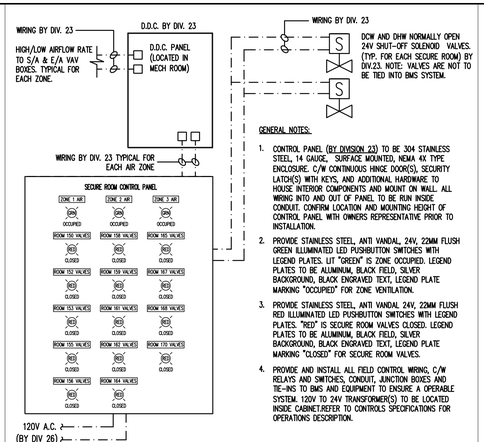
NOTE: REFER TO ARCHITECTURAL DWG DETAILS FOR FURTHER INFO.

1 SECURE AREA BUNK DETAIL (TYPICAL)
SCALE: N.T.S.



NOTE: THE SPECIAL TAMPER-PROOF SOCKET MUST BE USED FOR INSTALLATION OR REMOVAL OF THE TAMPER-RESISTANT SCREWS

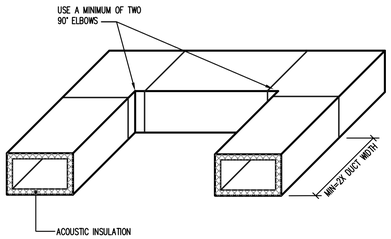
2 SECURE SPRINKLER DETAIL
SCALE: N.T.S.



GENERAL NOTES:

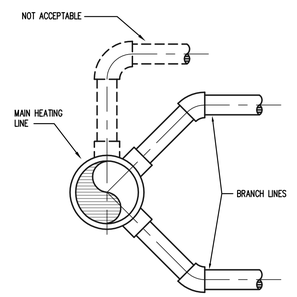
1. CONTROL PANEL (BY DIVISION 23) TO BE 304 STAINLESS STEEL, 14 GAUGE, SURFACE MOUNTED, NEMA 4X TYPE ENCLOSURE. C/W CONTINUOUS HINGE DOOR(S), SECURITY LATCH(S) WITH KEYS, AND ADDITIONAL HARDWARE TO HOUSE INTERIOR COMPONENTS AND MOUNT ON WALL. ALL WIRING INTO AND OUT OF PANEL TO BE RUN INSIDE CONDUIT. CONFIRM LOCATION AND MOUNTING HEIGHT OF CONTROL PANEL WITH OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.
2. PROVIDE STAINLESS STEEL, ANTI VANDAL, 24V, 22MM FLUSH GREEN ILLUMINATED LED PUSHBUTTON SWITCHES WITH LEGEND PLATES. LIT "GREEN" IS ZONE OCCUPIED. LEGEND PLATES TO BE ALUMINUM, BLACK FIELD, SILVER BACKGROUND, BLACK ENGRAVED TEXT, LEGEND PLATE MARKING "OCCUPIED" FOR ZONE VENTILATION.
3. PROVIDE STAINLESS STEEL, ANTI VANDAL 24V, 22MM FLUSH RED ILLUMINATED LED PUSHBUTTON SWITCHES WITH LEGEND PLATES. "RED" IS SECURE ROOM VALVES CLOSED. LEGEND PLATES TO BE ALUMINUM, BLACK FIELD, SILVER BACKGROUND, BLACK ENGRAVED TEXT, LEGEND PLATE MARKING "CLOSED" FOR SECURE ROOM VALVES.
4. PROVIDE AND INSTALL ALL FIELD CONTROL WIRING, C/W RELAYS AND SWITCHES, CONDUIT, JUNCTION BOXES AND TIE-INS TO BMS AND EQUIPMENT TO ENSURE A OPERABLE SYSTEM. 120V TO 24V TRANSFORMER(S) TO BE LOCATED INSIDE CABINET.REFER TO CONTROLS SPECIFICATIONS FOR OPERATIONS DESCRIPTION.

3 SECURE ROOM CONTROL PANEL
SCALE: N.T.S.

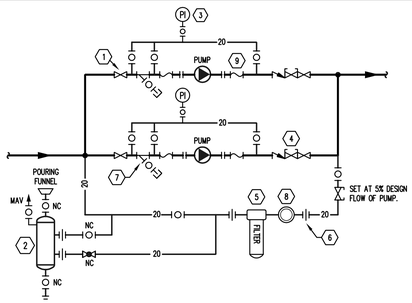


REFER TO FLOOR PLANS FOR LOCATIONS AND DUCT DIMENSIONS.

4 CROSS-TALK SILENCER DETAIL
SCALE: N.T.S.



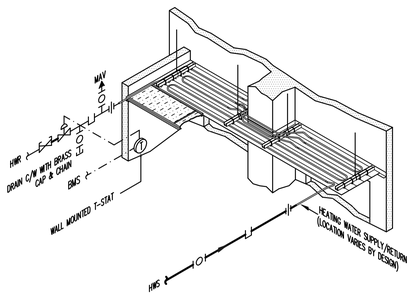
HEATING PIPING TAKE OFFS FROM MAIN
5 SCALE: N.T.S.



KEYNOTES:

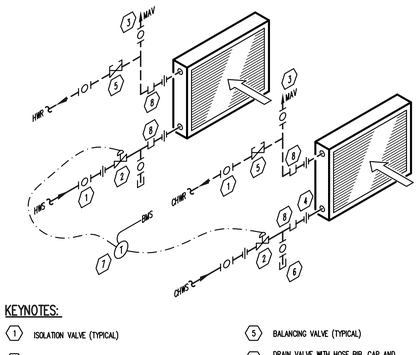
1. ISOLATION VALVE
2. CHEMICAL POT FEEDER
3. PRESSURE INDICATOR AND ISOLATION VALVE.
4. MULTIPURPOSE VALVE. COMBINATION OF (CHECK, ISOLATION AND BALANCING VALVES).
5. SIDE STREAM FILTER
6. FLANGE / UNION.
7. SUCTION DIFFUSER WITH DRAIN AND ISOLATION VALVE.
8. SITE GLASS.
9. FLEX CONNECTION. REQUIRED ON VERTICAL IN LINE OR BASE MOUNTED PUMPS.

6 PARALLEL PUMP SCHEMATIC
SCALE: N.T.S.



NOTE:
WHEN CONTROL SERVICES MORE THAN ONE RADIANT PANEL, EACH RADIANT PANEL TO BE INSTALLED WITH ISOLATION VALVE ON HWS AND BALANCING VALVE ON HWR.

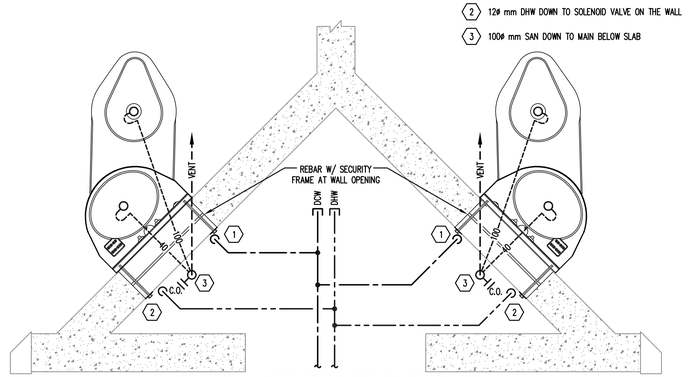
7 RADIANT PANEL SCHEMATIC
SCALE: NTS



KEYNOTES:

1. ISOLATION VALVE (TYPICAL)
2. TWO WAY CONTROL VALVE
3. MANUAL AIR VENT (TYPICAL)
4. FLANGE / UNION (TYPICAL)
5. BALANCING VALVE (TYPICAL)
6. DRAIN VALVE WITH HOSE BIB, CAP AND CHAIN.
7. WALL MOUNTED T-STAT.
8. PETE'S PLUG (TYPICAL)

8 FAN COIL UNIT PIPING SCHEMATIC
SCALE: N.T.S.

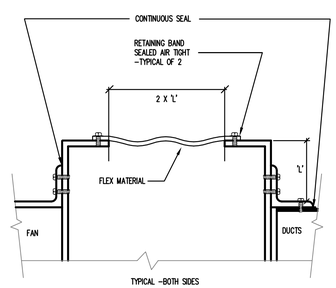


KEYNOTES:

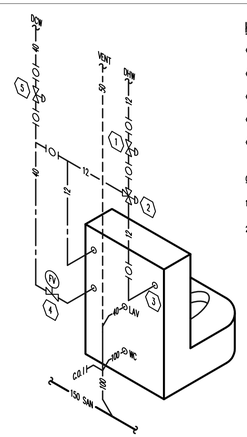
1. 40ø mm DCW DOWN TO SOLENOID VALVE ON THE WALL
2. 12ø mm DHW DOWN TO SOLENOID VALVE ON THE WALL
3. 100ø mm SAN DOWN TO MAIN BELOW SLAB

NOTE: REFER TO PLUMBING FIXTURE SPECIFICATION FOR EXACT SHAPE AND DIMENSIONS

9 SECURE ROOM PLUMBING SERVICE CLOSET PIPING SCHEMATIC
SCALE: N.T.S.



10 FAN/DUCT FLEXIBLE CONNECTION DETAIL
SCALE: N.T.S.



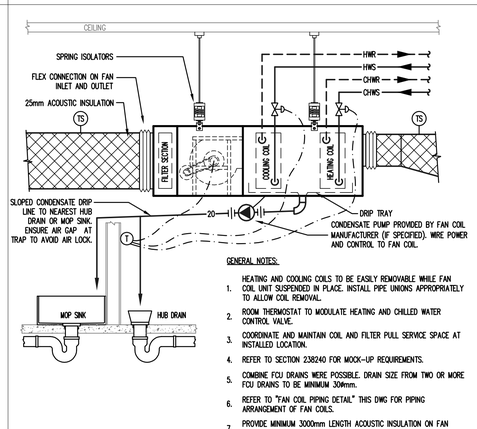
KEYNOTES:

1. 24V SOLENOID VALVE TO SHUT-OFF DHW FROM GUARD STATION CONTROL PANEL.
2. THERMOSTATIC MIXING VALVE. SET @ 43.3°C.
3. TEMPERED WATER.
4. FLUSH VALVE.
5. 24V SOLENOID VALVE TO SHUT-OFF DCW FROM GUARD STATION CONTROL PANEL.

GENERAL NOTES:

1. ALL VALVES TO BE ACCESSIBLE FOR SERVICING WITHOUT THE NEED FOR A LADDER.
2. REFER TO SPECIFICATIONS & MANUFACTURER'S INSTALLATION RECOMMENDATIONS.

11 SECURE ROOM PIPING INSTALLATION DETAIL
SCALE: N.T.S.



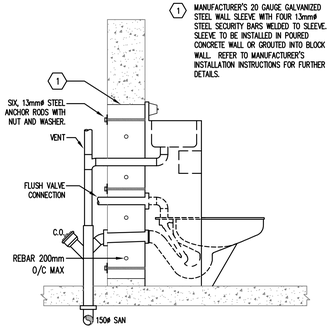
GENERAL NOTES:

1. HEATING AND COOLING COILS TO BE EASILY REMOVABLE WHILE FAN COIL UNIT SUSPENDED IN PLACE. INSTALL PIPE UNIONS APPROPRIATELY TO ALLOW COIL REMOVAL.
2. ROOM THERMOSTAT TO MODULATE HEATING AND CHILLED WATER CONTROL VALVE.
3. COORDINATE AND MAINTAIN COIL AND FILTER PULL SERVICE SPACE AT INSTALLED LOCATION.
4. REFER TO SECTION 238240 FOR MOCK-UP REQUIREMENTS.
5. COMBINE FCU DRAINS WERE POSSIBLE. DRAIN SIZE FROM TWO OR MORE FCU DRAINS TO BE MINIMUM 30ømm.
6. REFER TO "FAN COIL PIPING DETAIL" THIS DWG FOR PIPING ARRANGEMENT OF FAN COILS.
7. PROVIDE MINIMUM 3000mm LENGTH ACOUSTIC INSULATION ON FAN OUTLET.

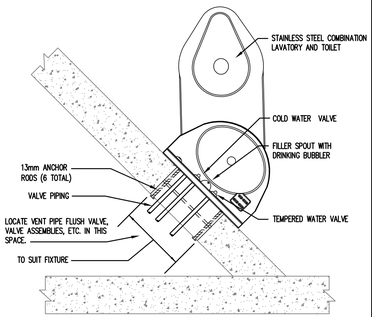
12 FAN COIL UNIT DETAIL
SCALE: N.T.S.

KEYNOTES:

1. MANUFACTURER'S 20 GAUGE GALVANIZED STEEL WALL SLEEVE WITH FOUR 13mmø STEEL SECURITY BARS WELDED TO SLEEVE. SLEEVE TO BE INSTALLED IN POURED CONCRETE WALL OR GROUTED INTO BLOCK WALL. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.



SECTION MOUNTING DETAIL SECURE ROOM COMBINATION FIXTURE
13 SCALE: N.T.S.



NOTE: REFER TO PLUMBING FIXTURE SPECIFICATION FOR EXACT SHAPE AND DIMENSIONS

SECURE ROOM COMBINATION FIXTURE DETAIL
14 SCALE: N.T.S.

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ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS OF ALBERTA — EDMONTON — 2017.09.12

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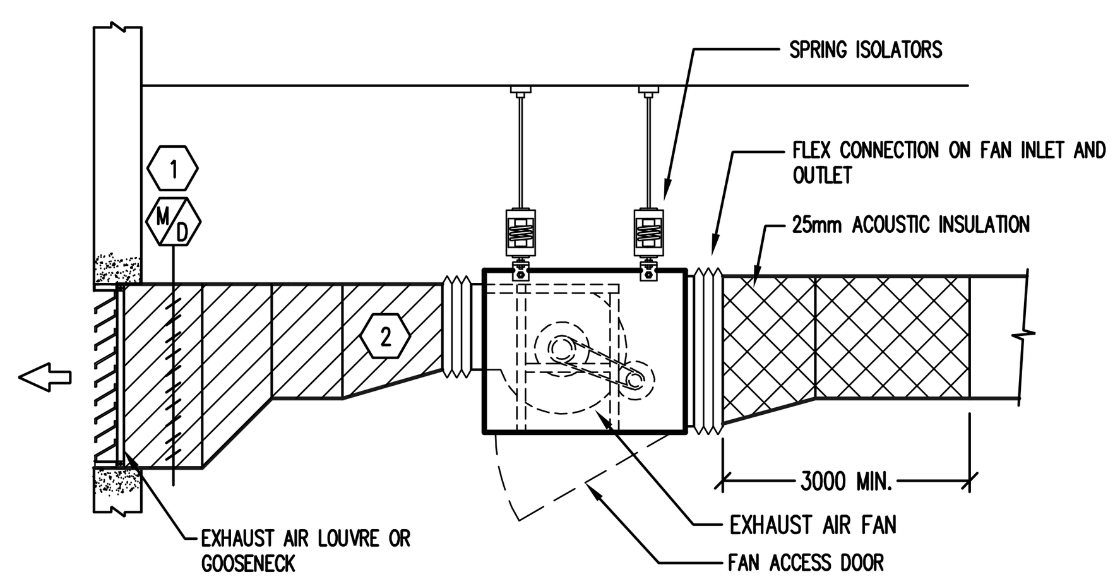
Date	2017.09.12	Checked By	PC

Drawing Title
MECHANICAL DETAILS

Drawing No.
M8.2

KEYNOTES:

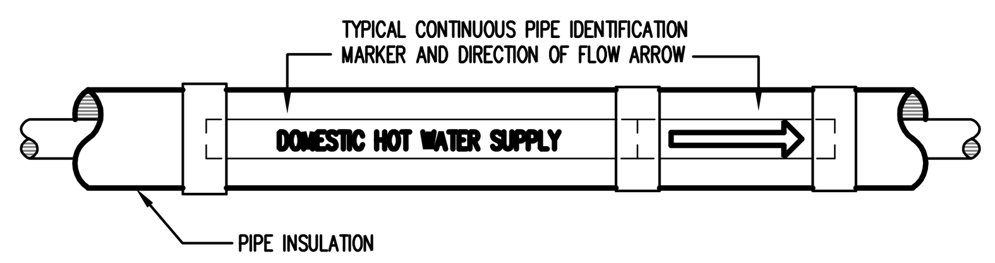
1. PROVIDE AND INSTALL MOTORIZED DAMPER AT LOUVER WHERE FAN CAPACITY EXCEEDS 140 L/S (300 CFM) OR WERE INDICATED ON DWGS, ELSE INSTALL BACK DRAFT DAMPER.
2. PROVIDE THERMAL DUCT INSULATION FROM FAN OUTLET TO EXTERIOR WALL LOUVRE OR GOOSENECK. REFER TO SPECIFICATIONS FOR INSULATION THICKNESS AND JACKETING.



GENERAL NOTES:

1. REFER TO FLOOR PLANS FOR LOCATIONS AND DUCT DIMENSIONS.
2. PROVIDE SECURITY BARS ON OPENINGS LARGER THEN 150mm X 150mm THRU SECURE AREAS.

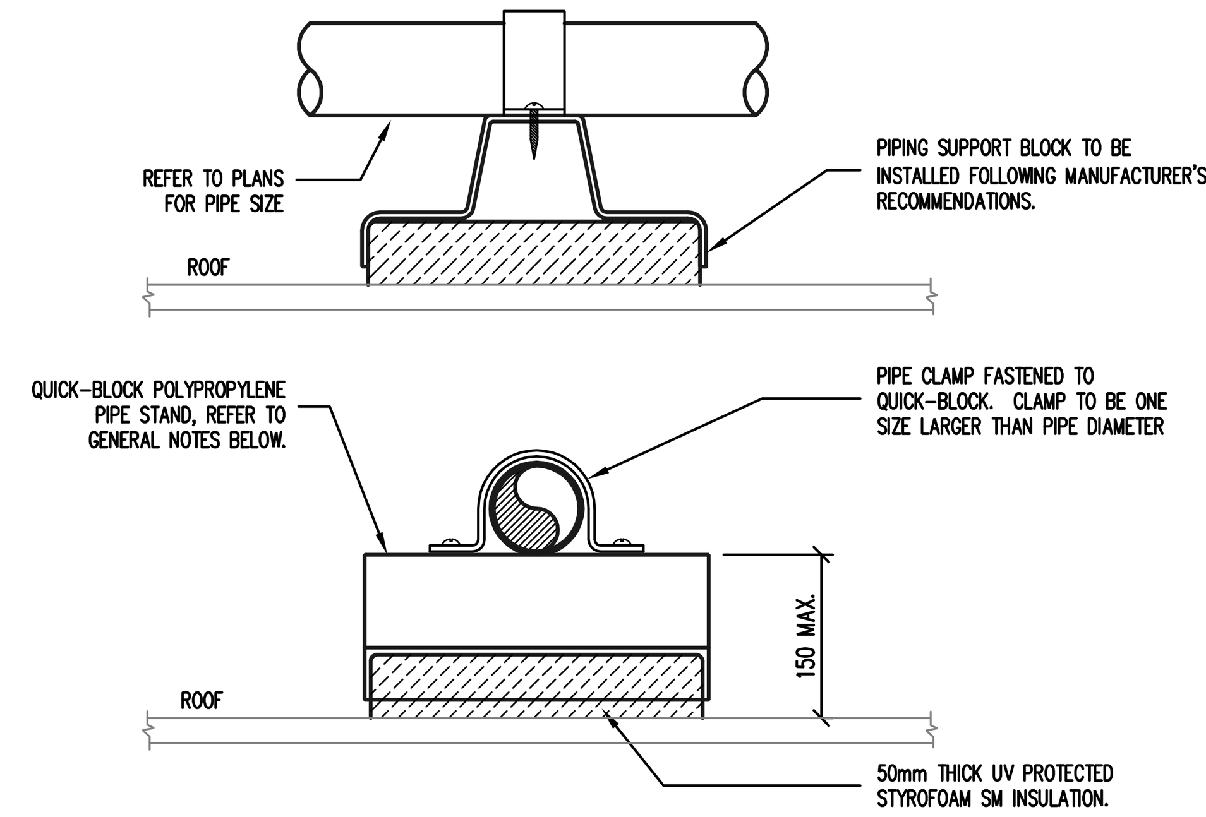
1 EXHAUST FAN DETAIL
SCALE: N.T.S.



GENERAL NOTES:

1. APPLY A PRE-FORMED "SNAP AROUND-THE-PIPE" IDENTIFICATION
2. REFER TO SPECIFICATIONS FOR COLOR CODING OF SERVICES.
3. INSTALL AT 15m INTERVALS (MAXIMUM) AND AT EACH CHANGE IN DIRECTION.

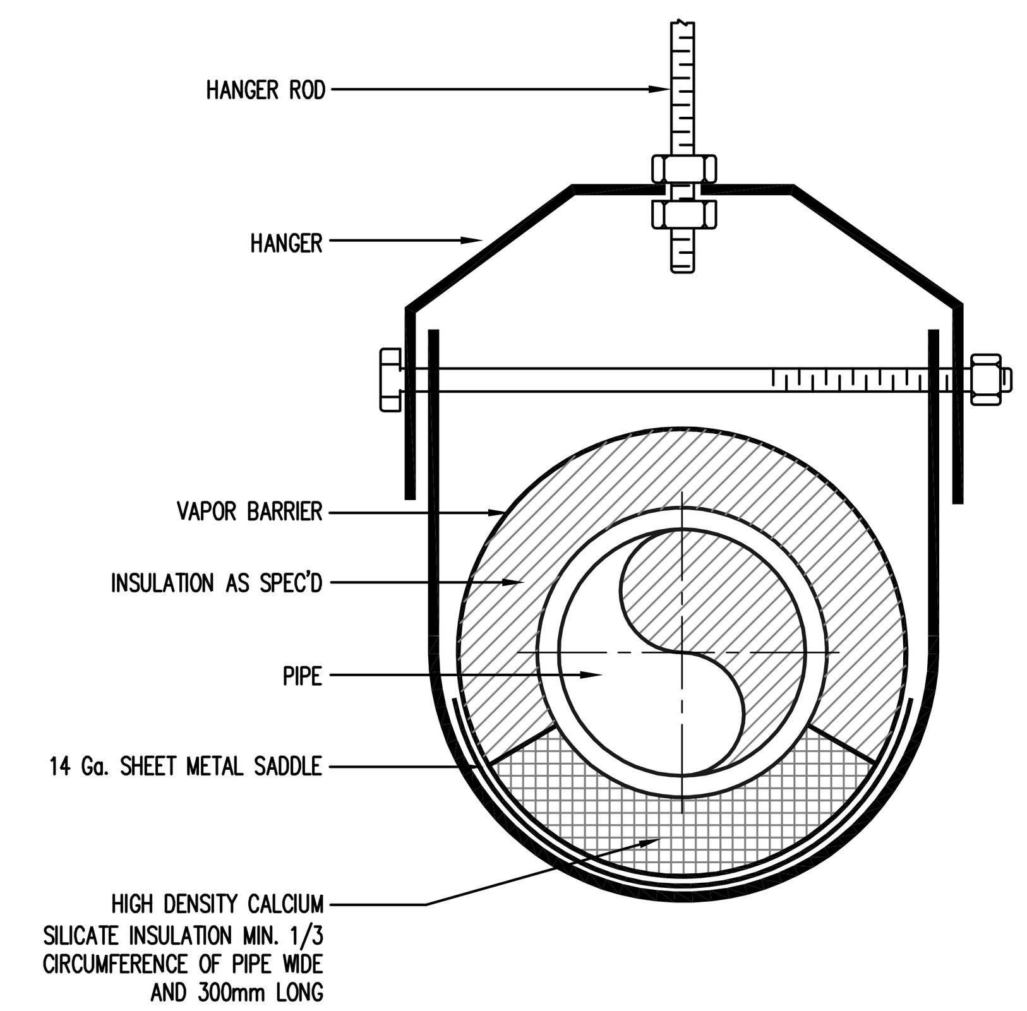
2 TYPICAL PIPE IDENTIFICATION DETAIL
SCALE: N.T.S.



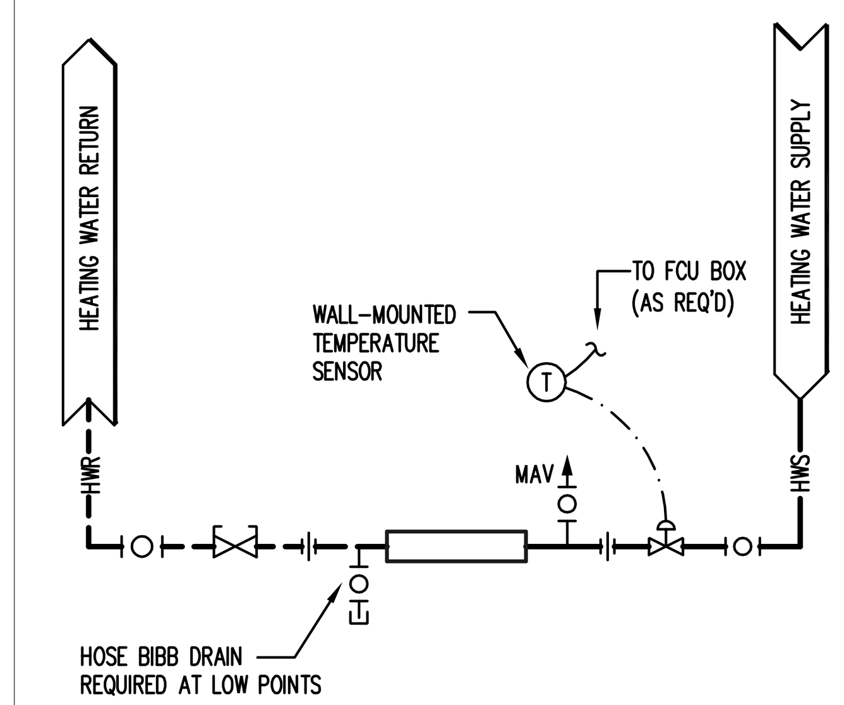
GENERAL NOTES:

1. NOTE: ALL INSULATED PIPING TO BE COVERED WITH ALUMINUM JACKETING C/W A HOT DIPPED GALVANIZED LOAD DISTRIBUTION PLATE BENEATH PIPING AT EACH SUPPORT LOCATION TO PREVENT THE INSULATION FROM BEING CRUSHED.
2. PROVIDE EXTENSIONS KIT(S) C/W HOT DIPPED GALVANIZED STEEL READY RODS 16mmø (5/8") MIN. HOT DIPPED GALVANIZED STEEL STRUTS (12 GAUGE MIN.) TO RAISE ALL INSULATED / ALUMINUM JACKETED PIPING A MINIMUM 350mm ABOVE FINISHED ROOF DECK.

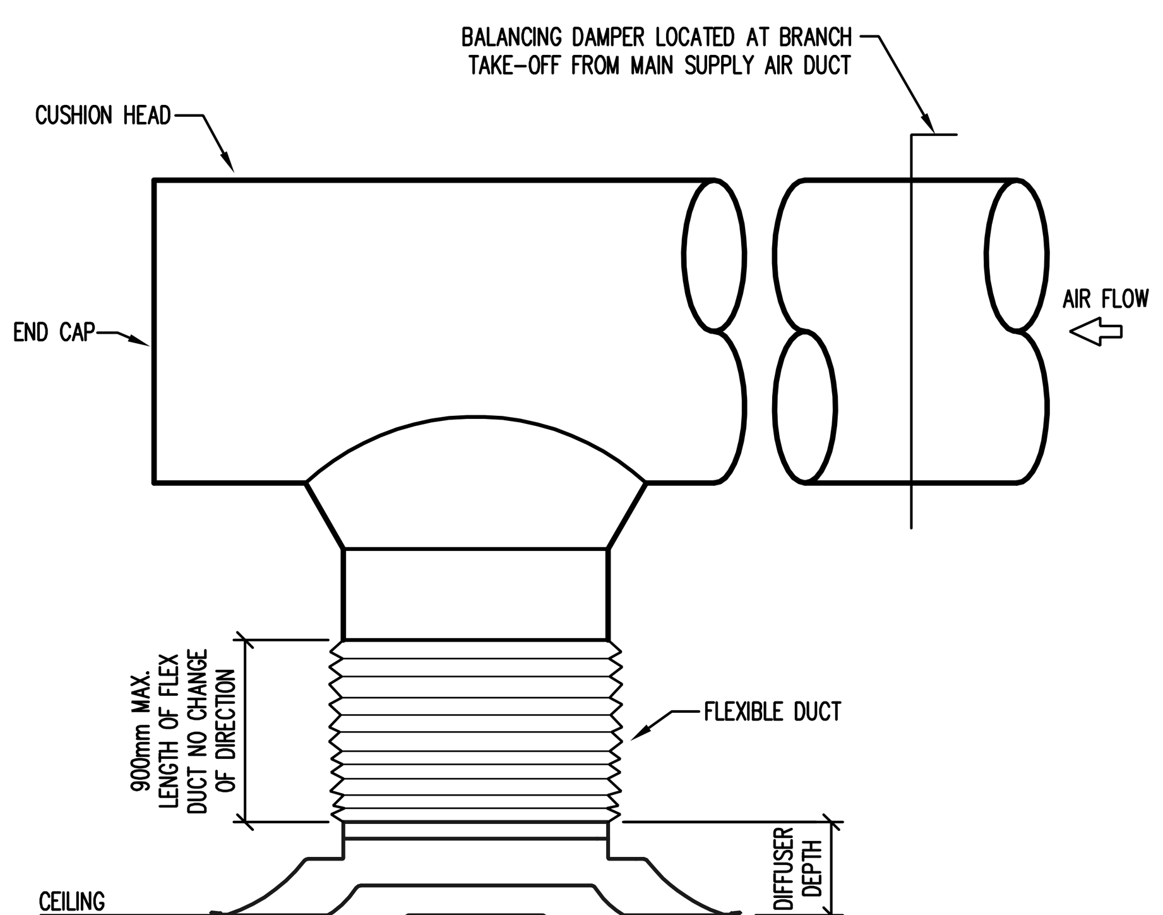
3 TYPICAL PIPING SUPPORT - ROOF
SCALE: N.T.S.



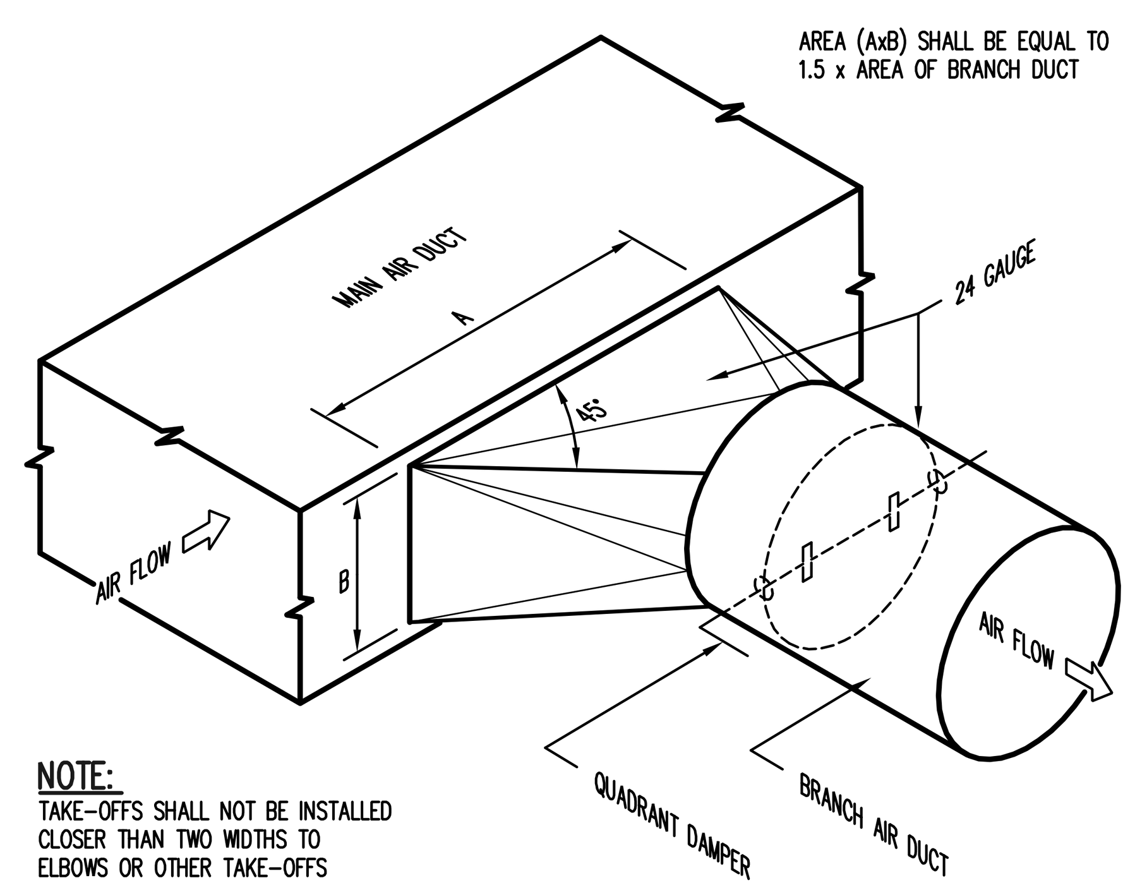
4 PIPE HANGER AND INSULATION DETAIL
SCALE: N.T.S.



5 TYPICAL RADIATION SCHEMATIC
SCALE: N.T.S.

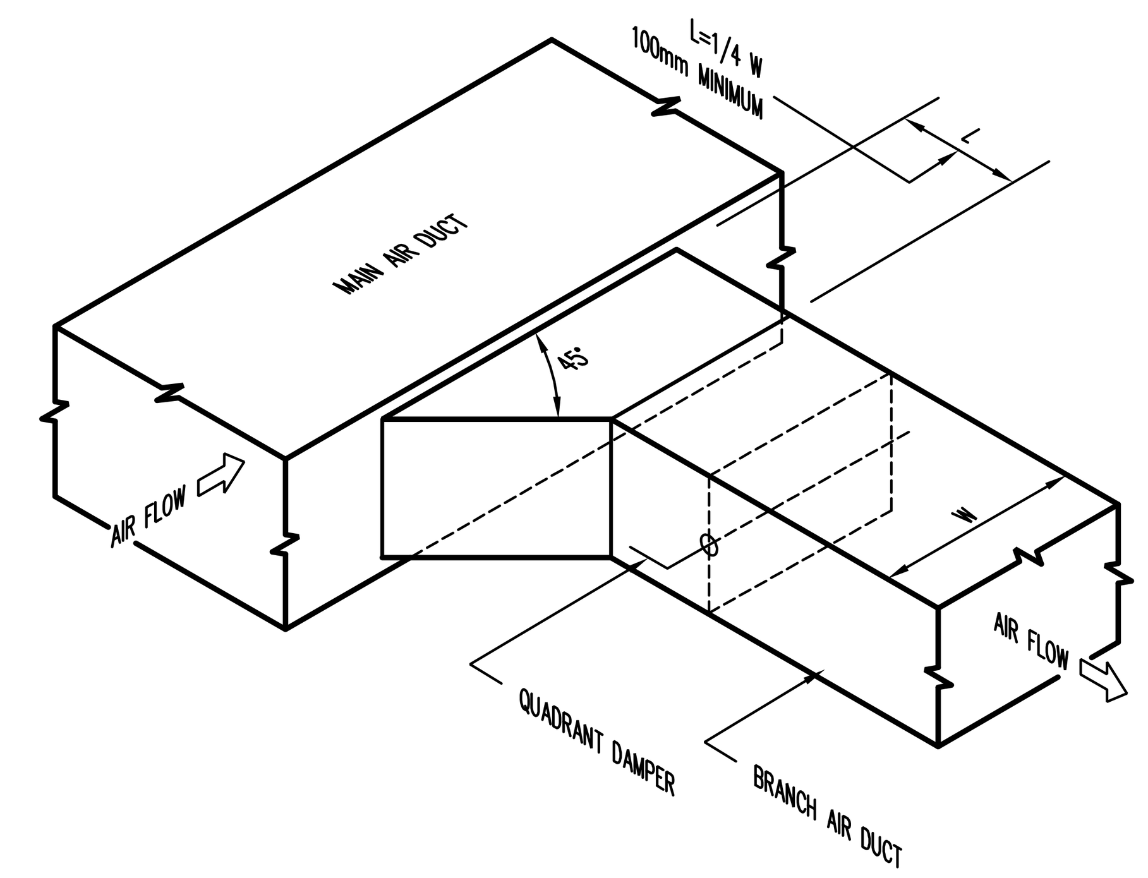


6 DIFFUSER CONNECTION DETAIL
SCALE: N.T.S.



NOTE:
TAKE-OFFS SHALL NOT BE INSTALLED CLOSER THAN TWO WIDTHS TO ELBOWS OR OTHER TAKE-OFFS

7 SQUARE TO ROUND TAKE-OFF
SCALE: N.T.S.



8 SQUARE TO SQUARE TAKE-OFF
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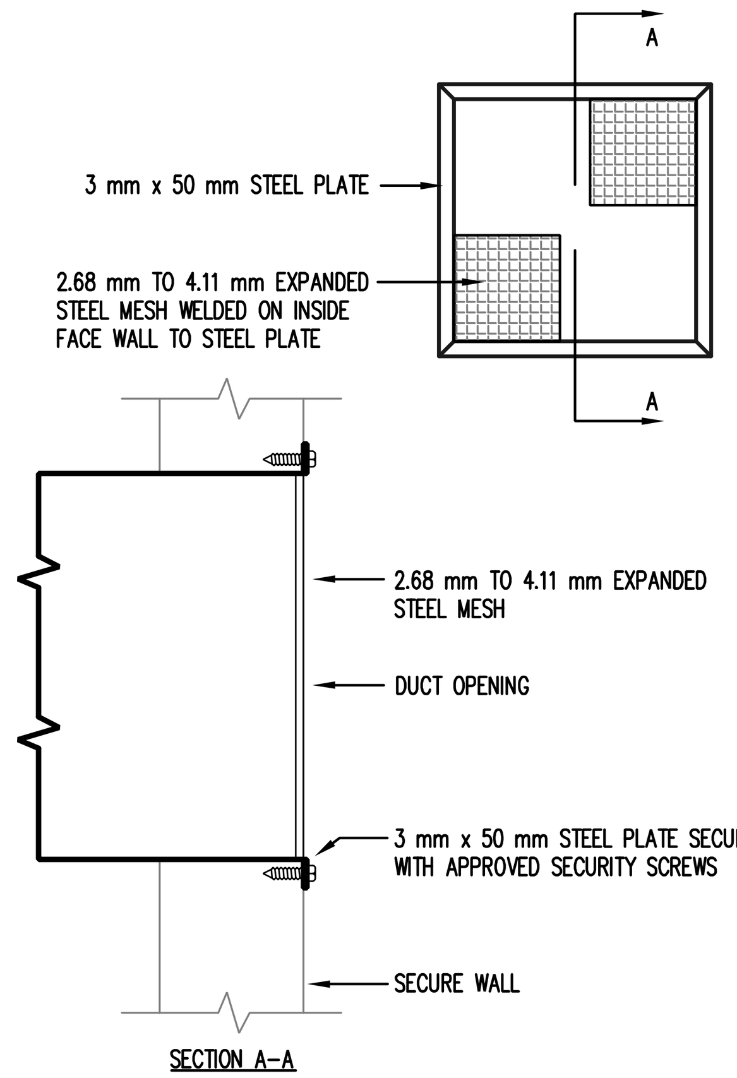
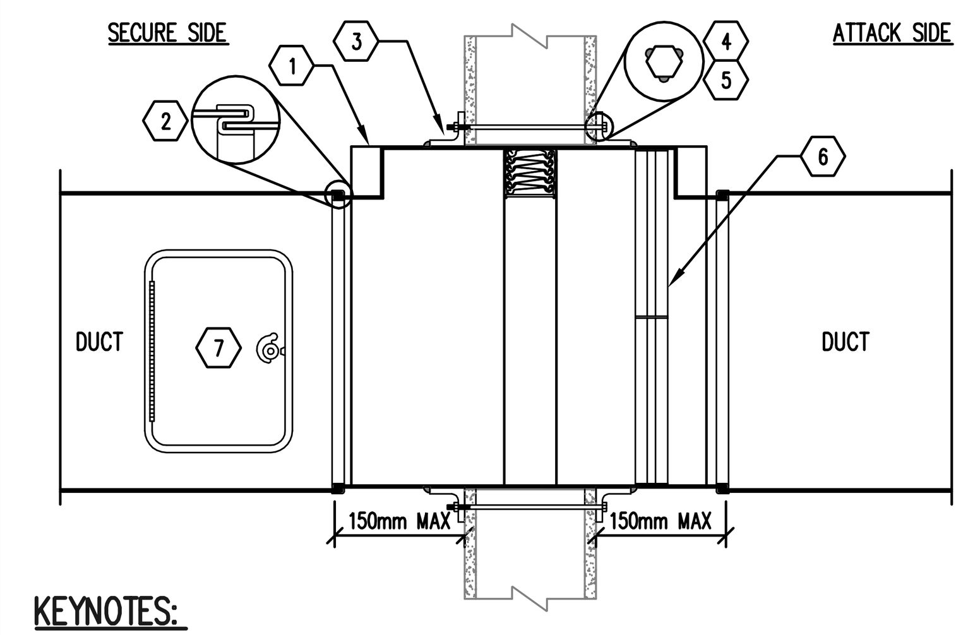


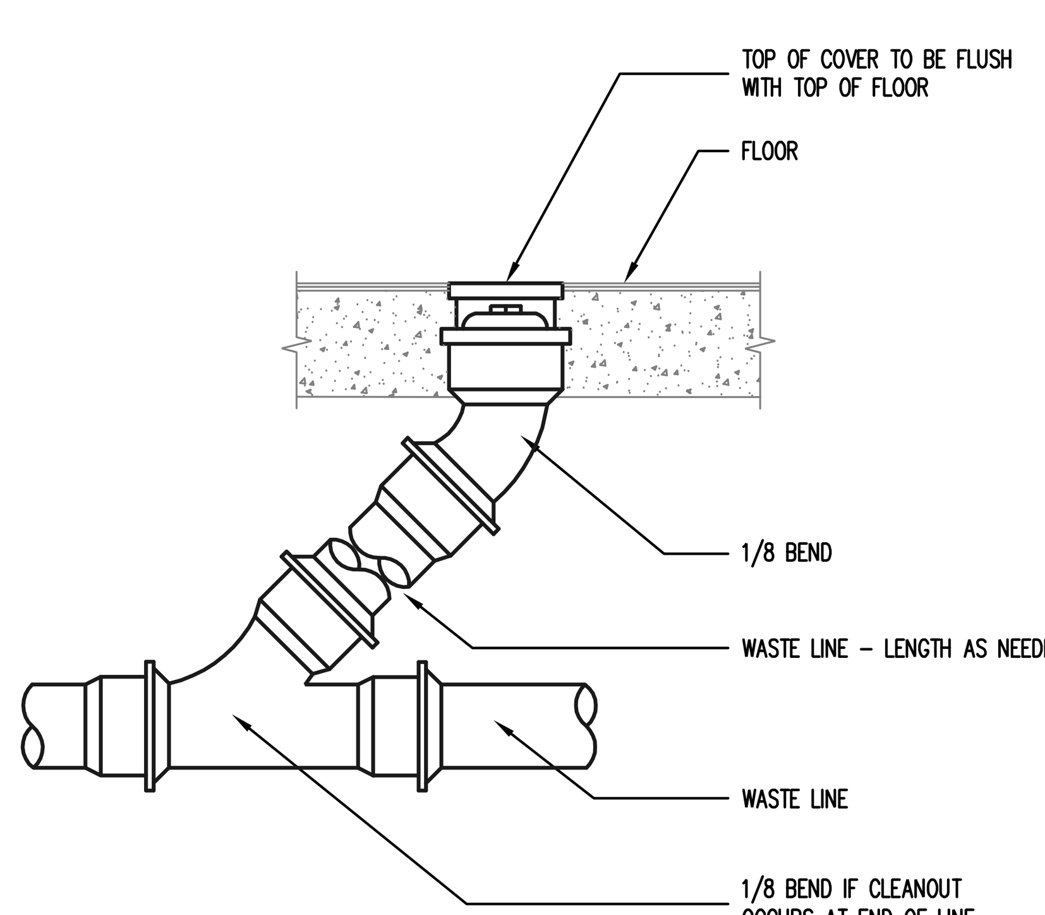
9 SECURE GRILLE DETAIL
SCALE: N.T.S.



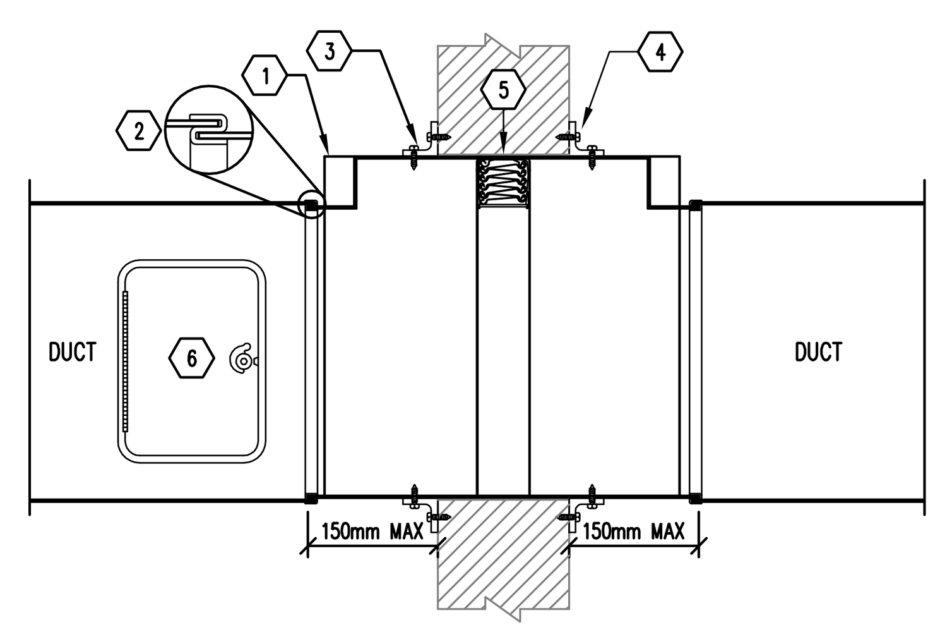
KEYNOTES:

1. MINIMUM 3.4mm (10 GAUGE) GALVANIZED STEEL SLEEVE WITH TYPE "B" FIRE DAMPER SPOT OR TACK WELDED IN PLACE. PROVIDE A MINIMUM OF FOUR ATTACHMENTS, TWO ON EACH SIDE OF THE BLADE CHANNEL, FOR A MINIMUM TOTAL OF 16.
2. BREAKAWAY JOINT USING "S" SLIP CONNECTION ON TOP AND BOTTOM WITH DRIVE SLIPS ON THE SIDES, OR AS PER MANUFACTURERS RECOMMENDATIONS. SEAL AIR TIGHT.
3. RETAINING ANGLE FRAME ON EACH SIDE OF THE WALL. FRAME TO BE CONSTRUCTED FROM 40mm X 40mm X 3.2mm ANGLE STEEL AND WELDED ALL AROUND TO DUCT SLEEVE.
4. SECURE DUCT SLEEVE FRAME TO WALL WITH 6.4mm (¼") DIA BOLTS AND HEX NUTS AT 200mm (8") ON CENTER AROUND THE DUCT SLEEVE. BOLT LENGTH DETERMINED BY WALL THICKNESS.
5. THE BOLT HEAD SHALL BE ON THE ATTACK SIDE AND BE WELDED IN AT LEAST THREE PLACES TO THE ANGLE FRAME. FRAMING AROUND DUCT SLEEVE IS REQUIRED.
6. SPACE 13ømm MIN. DIAMETER VERTICAL SECURITY BARS 150mm O/C. PROVIDE 50mm x 6.4mm HORIZONTAL FLAT BARS AT 300mm ON CENTER. VERTICAL BARS PASS THRU HORIZONTAL BARS. BOTH BARS TO BE WELDED INSIDE A 50mm x 6.4mm FRAME. FRAME TO BE WELDED TO DUCT SLEEVE.
7. PROVIDE ACCESS PANEL ON SECURE SIDE.

10 SECURE AREA DUCT OPENING DETAIL
SCALE: N.T.S.



11 FLOOR CLEANOUT
SCALE: N.T.S.

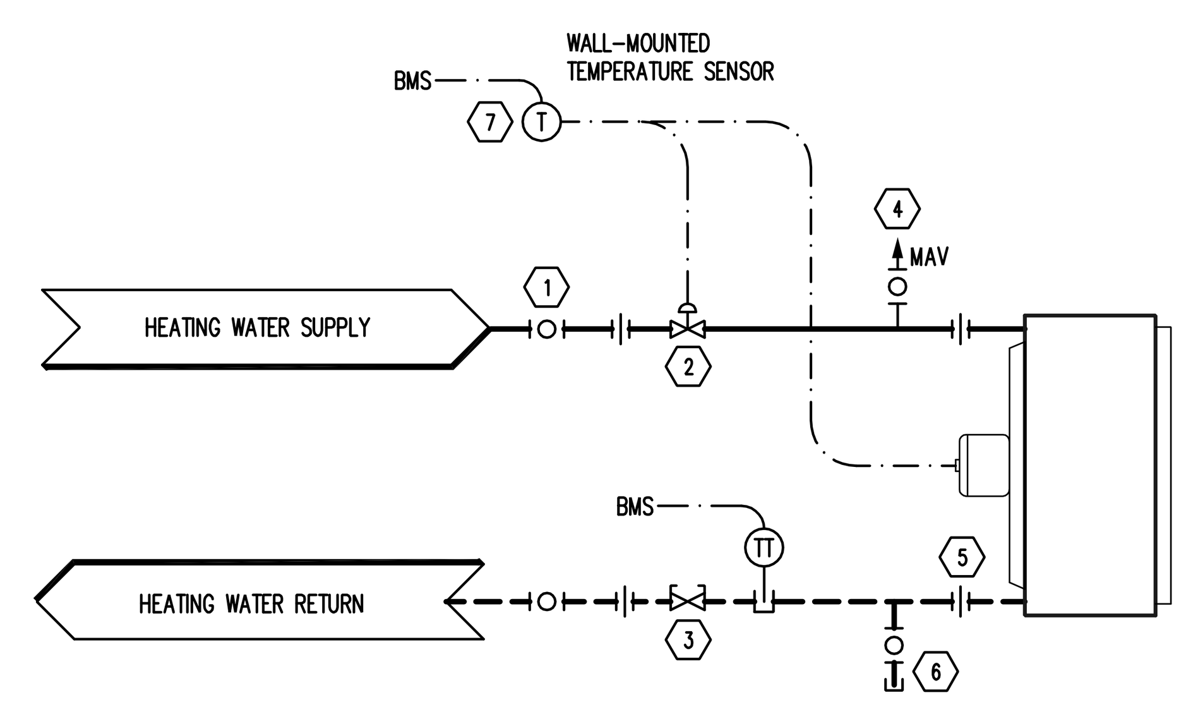


KEYNOTES:

1. GALVANIZED STEEL SLEEVE WITH TYPE "B" FIRE DAMPER IN PLACE FROM MANUFACTURER. SLEEVE GAUGE SHALL NOT BE LESS THEN THE GAUGE OF THE CONNECTION DUCT. FIRE DAMPER TO BE SPOT OR TACK WELDED IN PLACE. PROVIDE A MINIMUM OF FOUR ATTACHMENTS, TWO ON EACH SIDE OF THE BLADE CHANNEL, FOR A MINIMUM TOTAL OF 16.
2. BREAKAWAY JOINT -USING "S" SLIP CONNECTION ON TOP AND BOTTOM WITH DRIVE SLIPS ON THE SIDES, OR AS PER MANUFACTURERS RECOMMENDATIONS. SEAL AIR TIGHT.
3. RETAINING ANGLE FRAME ON EACH SIDE OF THE WALL. FRAME TO BE CONSTRUCTED FROM 40mm X 40mm X 1.5mm ANGLE STEEL.
4. SECURE DUCT SLEEVE FRAME TO WALL WITH 9.5mm LAG SCREWS OR 6.4mm (¼") DIA BOLTS AND HEX NUTS AT 200mm (8") ON CENTER AROUND THE DUCT SLEEVE. LAG SCREW OR BOLT LENGTH DETERMINED BY WALL THICKNESS.
5. ENSURE CLEARANCE BETWEEN WALL AND SLEEVE. 3mm PER LINEAL FOOT, BOTH DIMENSIONS.
6. PROVIDE ACCESS PANEL ON SECURE SIDE.

NOTES: PROVIDE CEILING ACCESS PANELS WHERE REQUIRED TO ACCESS DAMPERS PER SPECIFICATION. REFER TO PLAN DRW.'S FOR LOCATIONS OF FIRE DAMPERS.

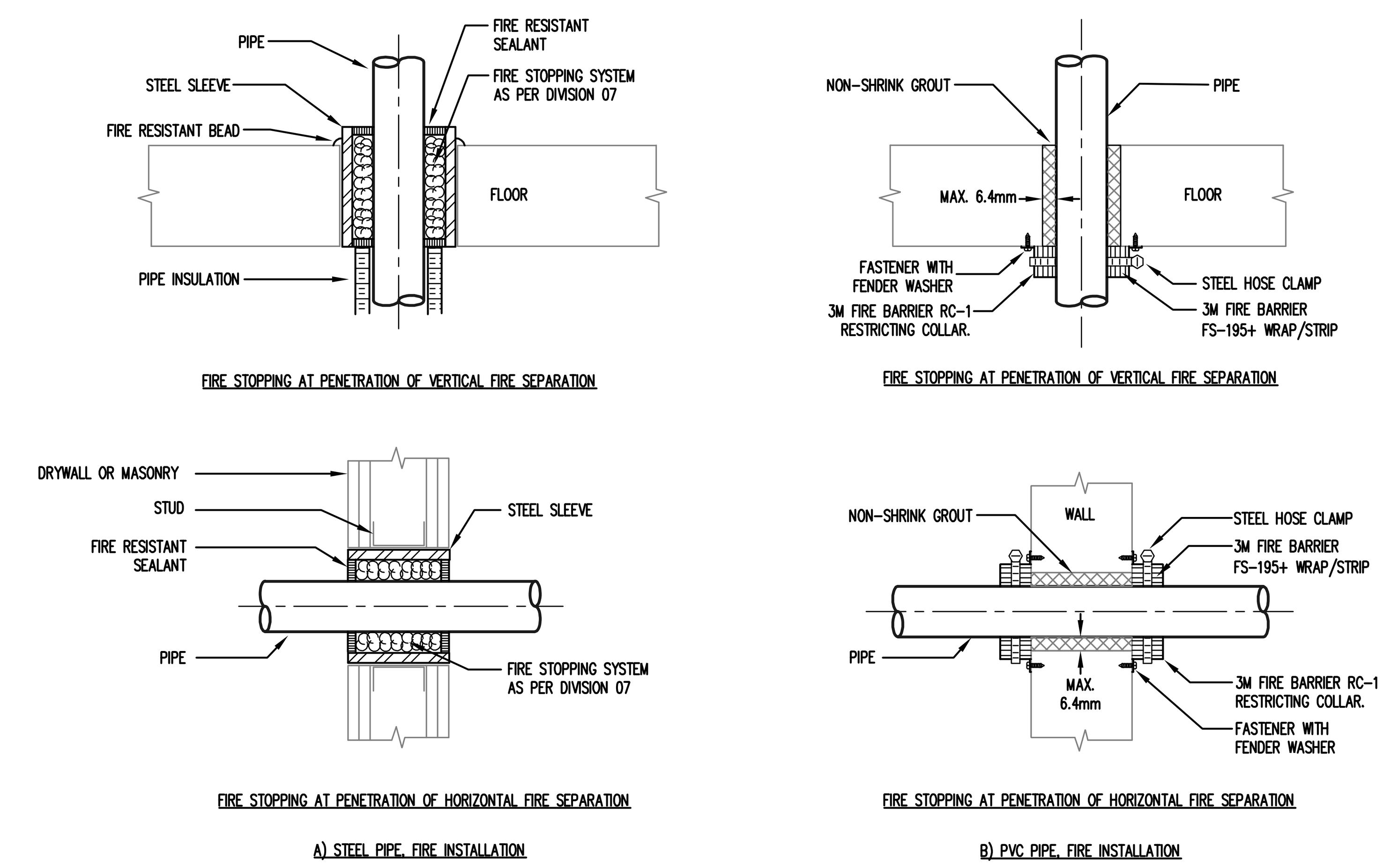
12 FIRE DAMPER INSTALLATION
SCALE: N.T.S.



KEYNOTES:

1. ISOLATION VALVE (TYPICAL)
2. TWO WAY CONTROL VALVE
3. BALANCING VALVE
4. MANUAL AIR VENT
5. FLANGE / UNION (TYPICAL)
6. DRAIN VALVE WITH HOSE BIB, CAP AND CHAIN.
7. TEMPERATURE SENSOR.

13 TYPICAL FORCE FLOW / UNIT HEATER SCHEMATIC
SCALE: N.T.S.



GENERAL NOTES:

1. THICKNESS OF FIRE STOPPING AND SEALANT AS REQUIRED TO MEET FIRE SEPARATION RATING
2. FIRE STOPPING SHALL BE INSTALLED BY A QUALIFIED APPLICATOR.
3. FIRE RESISTANT SEALANT TO MEET LOCAL CODE REQUIREMENTS.
4. REFER TO MANUFACTURES DETAIL FOR INSTALLATION.

14 FIRE SEPARATION PENETRATIONS DETAIL
SCALE: N.T.S.

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Seal

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PERMIT NUMBER
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The Association of Prof. Engineers and Geoscientists of Alberta.

Client
WABASCA-DESMARAIS

Project
WABASCA / DESMARAIS GOVERNMENT BUILDING

Scale	AS NOTED	Designed By	QK
Project No.	9031	Drawn By	QK
Date	2017.09.12	Checked By	PC

Drawing Title
MECHANICAL DETAILS

Drawing No.
M8.3

BOILER SCHEDULE

TAG	MAKE	MODEL	TYPE	LOCATION	SERVICE	WEIGHT (kg)	DIMENSIONS (mm)			FUEL	INPUT (kW)	OUTPUT (kW)	FLUID RATE (L/s)	FLUID TEMPERATURE (°C)		PRESSURE DROP (kPa)	OPERATING PRESSURE (kPa)	ELECTRICAL (VOLT/PH/HZ)	NOTES
							DEPTH	WIDTH	HEIGHT					EWT	LWT				
B-1	WEIL McLAIN	EVG 299	CONDENSING	ROOM 145	BUILDING HEAT	120	585	690	1150	N.GAS	87.6	82.0	1.17	43	60		207.0	120/1/60	NATURAL GAS WALL MOUNTED, SIDE WALL VENTED CONDENSING BOILER. C/W STAINLESS STEEL FIRE-TUBE HEAT EXCHANGER, 10:1 TURNDOWN RATIO, BOILER CIRCULATOR, HIGH LIMIT BOILER WATER TEMPERATURE CONTROLLER, LOW WATER CUTOFF, ASME RATED PRESSURE RELIEF VALVE SET @ 207 kPa (30 Psig), CONDENSATE ACID NEUTRALIZATION KIT WITH BY-PASS, MANUFACTURERS MAINTENANCE KIT, MANUFACTURERS SIDEWALL VENT/AIR (W-M) DIRECT VENT PLATE KIT, EVERGREEN MODBUS INTERFACE (NOTE: WHERE THE BMS USES BACNET PROTOCOL, INSTALL A BACNET CONVERTOR BETWEEN THE BMS AND THE EVERGREEN MODBUS TO BMS TERMINALS). REFER TO CONTROLS SPECIFICATIONS FOR BOILER CONTROL AND POINTS LISTS.
B-1	WEIL McLAIN	EVG 299	CONDENSING	ROOM 145	BUILDING HEAT	120	585	690	1150	N.GAS	87.6	82.0	1.17	43	60		207.0	120/1/60	SAME AS ABOVE

AIR-COOLED CHILLER / DRY-FLUID COOLER SCHEDULE

TAG	MAKE	MODEL	QTY	LOCATION	SERVICE	WEIGHT (kg)	DIMENSIONS (mm)			REFRIGERANT	AMBIENT AIR TEMP (°C)		FLUID				PRESSURE DROP (kPa)	CAPACITY PER MODULE (kW)	COPR @ FULL LOAD	EER @ FULL LOAD	ELECTRICAL (VOLT/PH/HZ)	MCA (Amp)	NOISE (dB)	CONDENSER FAN		NOTES
							LENGTH	WIDTH	HEIGHT		DRY BULB	WET BULB	TYPE	EWT (°C)	LWT (°C)	FLOW (L/s)								AIRFLOW (L/s)	ESP (Pa)	
CH-1	MULTISTACK	ASP015	2	ROOF	CHILLED WATER SYSTEM	2320	2940	1600	1900	R-410A	27	19	50% PROPYLENE GLYCOL	12.8	7.2	2.52	42.0	16	–	–	208/3/60	167			0	3-WAY VALVE TO DIVERT FLOW AROUND DRY-COOLER, 2-WAY VALVE TO CONTROL FLOW THROUGH CHILLER MODULES, BYPASS VALVE TO PERMIT FLOW THROUGH DRY-COOLER WHILE NO FLOW THROUGH CHILLER MODULES, BACNET COMMUNICATION CARD, FACTORY PAINTED AS SELECTED BY ARCHITECT DURING SHOP DRAWING STAGE. EXTREME LOW AMBIENT KIT (-29°C ON CONDENSER FANS), SINGLE PIECE PAINTED CARBON STEEL LIFTING FRAME, ACOUSTIC COMPRESSOR WRAPS, LOW NOISE FANS, SINGLE POINT POWER CONNECTION, VARIABLE SPEED FANS ON THE FREE COOLING MODULE, AND 15A CONVENIENCE OUTLET.
DFC-1	MULTISTACK	FCP1	1							–	2	1	50% PROPYLENE GLYCOL	12.8	7.2	–	–	–	--	--	600/3/60	–			0	

PUMP SCHEDULE

TAG	MAKE	MODEL	TYPE	LOCATION	SERVICE	INLET/OUTLET (mm)	FLUID	CAPACITY (L/s)	PRESSURE (kPa)	MOTOR RPM	MOTOR (kW)	ELECTRICAL (VOLT/PH/HZ)	NOTES
P-1	GRUNDFOS	UP 26-96	CIRCULATOR	ROOM 145	HEATING SYSTEM	40	WATER	1.17	15	–	70 WATTS	115/1/60	CAST IRON, FLANGED CONNECTIONS, INTERLOCKED WITH ON BOARD BOILER CONTROLS. CAPABLE FOR FUTURE INTEGRATION INTO BMS.
P-2	GRUNDFOS	UP 26-96	CIRCULATOR	ROOM 145	HEATING SYSTEM	40	WATER	1.17	15	–	70 WATTS	115/1/60	CAST IRON, FLANGED CONNECTIONS, INTERLOCKED WITH ON BOARD BOILER CONTROLS. CAPABLE FOR FUTURE INTEGRATION INTO BMS.
P-3	GRUNDFOS	MAGNA3 40-180	CIRCULATOR	ROOM 145	HEATING SYSTEM	40	WATER	1.17	60	1160	600 WATTS	208/1/60	C/W VFD DRIVE & CONTROL, PROVIDE ADD-ON CIM MODULE FOR BMS SYSTEM.
P-4	GRUNDFOS	MAGNA3 40-180	CIRCULATOR	ROOM 145	HEATING SYSTEM	40	WATER	1.17	60	1160	600 WATTS	208/1/60	C/W VFD DRIVE & CONTROL, PROVIDE ADD-ON CIM MODULE FOR BMS SYSTEM.
P-5	TACO	KV1509	VERTICAL INLINE	ROOM 145	CHILLED GLYCOL SYSTEM	40	50% PROP. GLYCOL	2.52	145	–	2.2	208/3/60	VFD
P-6	TACO	KV1509	VERTICAL INLINE	ROOM 145	CHILLED GLYCOL SYSTEM	40	50% PROP. GLYCOL	2.52	145	–	2.2	208/3/60	VFD
P-7	TACO	IL008	CIRCULATOR	ROOM 145	DOMESTIC WATER SYSTEM	25	DOMESTIC WATER	0.25	30	3250	FRAC	120/1/60	APPROVED FOR DOMESTIC WATER
SP-1	LITTLE GIANT	5-ASP-LL	SUMP	ROOM 125	WASTE WATER	– / 25	WASTE WATER	1.16	15	–	380 WATTS	115/1/60Hz	CAST ALUMINUM CONSTRUCTION, WITH DIAPHRAGM SWITCH. RUN ALL WIRING FROM OIL INTERCEPTOR PIT TO WALL MOUNTED WATER RESISTANT POLYCARBONATE RECEPTACLE ENCLOSURE, INSIDE CONDUIT. CONDUIT SIZED TO ACCOMMODATE THE PUMPS 3-PRONG MOLDED POWER PLUG AND PIGGYBACK PLUG. PIGGYBACK AND POWER CORD LENGTHS TO BE MINIMUM 5.5M IN LENGTH EACH. REFER TO DWG M6.0 DETAIL 2 – TWO COMPARTMENT SUMP WITH OIL INTERCEPTOR FOR FURTHER DETAILS.

UNIT HEATER / FORCE FLOW SCHEDULE

TAG	MAKE	MODEL	LOCATION	DIMENSIONS (mm)			TYPE	CAPACITY (kW)	AIRFLOW (L/s)	FLUID				MOTOR (W)	ELECTRICAL (VOLT/PH/HZ)	NOTES
				LENGTH	WIDTH	HEIGHT				FLOW (L/s)	EWT (°C)	LWT (°C)	PD (kPa)			
UH-1	SIGMA	133H	ROOM 128	940	450	675	HYDRONIC	15.5	1230	0.4	60	43	1.0	185	120/1/60	REFER TO CONTROLS SPECIFICATIONS FOR EQUIPMENT OPERATION.
UH-2	SIGMA	133H	ROOM 149	940	450	675	HYDRONIC	15.5	1230	0.4	60	43	1.0	185	120/1/60	REFER TO CONTROLS SPECIFICATIONS FOR EQUIPMENT OPERATION.
UH-3	SIGMA	133H	ROOM 128	940	450	675	HYDRONIC	15.5	1230	0.4	60	43	1.0	185	120/1/60	REFER TO CONTROLS SPECIFICATIONS FOR EQUIPMENT OPERATION.
FF-1	SIGMA	SFF06	ROOM 101	1030	660	250	HYDRONIC	7.8	280	0.2	60	43	6.0	75	120/1/60	CEILING, RECESSED, FI/FO, CUSTOM COLOUR,
FF-2	SIGMA	SFF06	ROOM 127	1030	660	250	HYDRONIC	7.8	280	0.2	60	43	6.0	75	120/1/60	CEILING, RECESSED, FI/FO

OIL INTERCEPTOR

EQUIPMENT INFO								NOTES
TAG	MAKE	MODEL	DIMENSIONS (MM)	FLOW CAPACITY	ELECTRICAL (VOLT/PH/HZ)	MOTOR (kW)	WEIGHT	
OIL-01	ZURN	Z1196	584(l) x 359(w) x 356(d)	56.8 L/M	22.5 LITRES	–	35 KG Dry	DURA-COATED INTERIOR AND EXTERIOR FABRICATED STEEL OIL INTERCEPTOR, WITH A ELECTRONIC OIL LEVER SENSOR, BRONZE CLEAN OUT PLUG, VISIBLE DOUBLE WALL TRAP SEAL, REMOVABLE COMBINATION PRESSURE EQUALIZING/FLOW DIFFUSING BAFFLE, SEDIMENT BUCKET, HORIZONTAL BAFFLE, VENT CONNECTIONS, SECURED GASKETED NON-SKID COVER COMPLETE WITH INTEGRAL FLOW CONTROL FITTING. SENSOR LEVEL DISPLAY BOX C/W ONE GREEN POWER LIGHT, RED OIL LEVEL LIGHT, AUDIBLE ALARM AND JUNCTION BOX. MOUNT LEVEL SENSOR DISPLAY BOX INSIDE A SEPARATE 4X TYPE NEMA ENCLOSURE WITH CLEAR POLYCARBONATE COVER. NEMA ENCLOSURE DOOR FASTENER TO INCLUDE PROVISION FOR PADLOCKING. PROVIDE AND RUN ALL WIRING FROM OIL INTERCEPTOR PIT TO NEMA ENCLOSURE INSIDE CONDUIT. MOUNT ENCLOSURE APPROXIMATELY 1500mm A.F.F. NOTE: THIS OIL INTERCEPTOR TO COME WITH OPTIONAL SUMP PUMP SP-1. REFER TO DWG M8.1 "DETAIL 3 – TWO COMPARTMENT SUMP WITH OIL INTERCEPTOR" FOR FURTHER DETAILS. REFER TO STRUCTURAL DWGS FOR FURTHER INFORMATION ON OIL INTERCEPTOR PIT.

WASH DOWN STATIONS

TAG	MAKE	MODEL	LOCATION	DIMENSIONS (mm)			FLUID	NOTES
				WIDTH	LENGTH	DEPTH		
WD-1	LEONARD	SW-75-EVBD	SEE DRAWINGS	250	640	75	WATER	MANUAL WATER BLENDER, 20MM HOT AND COLD WATER INLETS. TWO STOP AND CHECK VALVES WITH COLOR CODED HEAT RESISTANT HANDLES ON INLETS, (INTERNAL PARTS OF STAINLESS STEEL CONSTRUCTION). MIXING CHAMBER WITH 20MM OUTLET AND DIAL THERMOMETER (20 TO 240°F, -5 TO 115°C), VACUUM BREAKER, CHROME PLATED FINISH, HOSE CONNECTION, STAINLESS STEEL HOSE RACK. PROVIDE 15.2 METERS (50FT) OF MANUFACTURERS 20MM, HEAVY DUTY HOSE (HDH) AND RUBBER COATED N2 HOSE NOZZLE.
WD-2	LEONARD	SW-75-EVBD	SEE DRAWINGS	250	640	75	WATER	MANUAL WATER BLENDER, 20MM HOT AND COLD WATER INLETS. TWO STOP AND CHECK VALVES WITH COLOR CODED HEAT RESISTANT HANDLES ON INLETS, (INTERNAL PARTS OF STAINLESS STEEL CONSTRUCTION). MIXING CHAMBER WITH 20MM OUTLET AND DIAL THERMOMETER (20 TO 240°F, -5 TO 115°C), VACUUM BREAKER, CHROME PLATED FINISH, HOSE CONNECTION.
HR-1	NATIONAL FIRE EQUIPMENT	CS-1310-MAX	SEE DRAWINGS	750	750	300	WATER	MAXIMUM SECURITY RECESSED, SEMI RECESSED OR SURFACE MOUNTED RED HOSE REEL CABINET. C/W HIGH SECURITY MECHANICAL DEADBOLT LOCK MODEL 7010, ESCUTCHEON FOR MAXIMUM SECURITY LOCK, MAXIMUM SECURITY DOOR LOCK KEY, AND H2301D HEAVY DUTY SECURITY HINGE, HRS-047-75 FIXED HOSE REEL WITH 22.9 METERS (75FT) OF LEONARD MANUFACTURERS 20MM, HEAVY DUTY HOSE (HDH) AND RUBBER COATED N2 HOSE NOZZLE.

DOMESTIC WATER HEATER SCHEDULE

TAG	MAKE	MODEL	TYPE	LOCATION	DIMENSIONS (mm)			VOLUME (L)	INPUT (kW)	EFFICIENCY	RECOVERY @ 56°C (L/hr)	ELECTRICAL (VOLT/PH/HZ)	NOTES
					DIA	HEIGHT	WT(KG)						
DWH-1	A.O.SMITH	CYCLONE BTX-80	TANK / CONDENSING	ROOM 145	560	1800	300	189	22	90%	314	120/1/60	PROVIDE
DWH-2	A.O.SMITH	CYCLONE BTX-80	TANK / CONDENSING	ROOM 145	560	1800	300	189	22	90%	314	120/1/60	

TANK SCHEDULE

TAG	MAKE	MODEL	TYPE	LOCATION	SERVICE	DIMENSIONS (mm)		WEIGHT (kg)	VOLUME (L)	ACCEPTANCE VOLUME (L)	WORKING PRESSURE (kPa)	NOTES
						DIA	HEIGHT					
TK-1	ARMTROL	ST-30VC	DIAPHRAGM EXPANSION	ROOM 145	DHW SYSTEM	400	483	27	53	34	1034	SUITABLE FOR POTABLE WATER, PRECHARGE TO 380kPa, ASME RATED
TK-2	TACO	CBX-84	DIAPHRAGM EXPANSION	ROOM 145	HEATING SYSTEM	400	980	68 (EMPTY)	84	45	862	BUILDING CHILLED WATER LOOP, PRECHARGE TO 83kPa, ASME RATED
TK-3	AXIOM	SF100	FILL	ROOM 145	CHILLED WATER SYSTEM	600	1245		208	–	345	ELEC. 115 V/1ø /60 Hz, 0.7 AMPS
TK-4	TACO	–	DIAPHRAGM EXPANSION	ROOM 145	CHILLED WATER SYSTEM	400	980	68 (EMPTY)	84	45	862	BUILDING CHILLED WATER LOOP, PRECHARGE TO 83kPa, ASME RATED
TK-5	TACO	BTP-0125F	BUFFER TANK	ROOM 145	CHILLED WATER SYSTEM	600	1930	623 (FULL)	526	–	862	CHILLER WATER LOOP, ASME RATED BUFFER TANK WITH 40mm ARMAFLEX INSULATION, BASE RING , 75ø DIA. FLANGED CONNECTIONS & ANCHOR CLIPS.
TK-6	AMTROL	ST-5C	DIAPHRAGM EXPANSION	ROOM 145	DCW SYSTEM	200	356	8	6.4	2.8	380	SUITABLE FOR POTABLE WATER, PRECHARGE TO 415kPa, ASME RATED

TRAP PRIMER SCHEDULE

TAG	MAKE	MODEL	LOCATION	# TRAPS SERVED	ELECTRICAL (VOLT/PH/HZ)	NOTES
TP-1	PRECISION PLUMBING PRODUCTS	PT-12	ROOM 139	8	120/1/60	SERVICES FLOOR DRAIN TRAPS IN RMS. 102, 121, 122, 123. C/W LOCKABLE FLUSH MOUNT CABINET, FIRE RATED STAINLESS STEEL DOOR, ISOLATION VALVE, VACUUM BREAKER, MANUAL OVERRIDE SWITCH, 15mm COMPRESSION FITTINGS.
TP-2	PRECISION PLUMBING PRODUCTS	PT-20	ROOM 106	20	120/1/60	SERVICES FLOOR DRAIN TRAPS IN RMS 139,148,150,152,153,155,156,158,159,161,162,164,165,167,168,170,171,173,174. ISOLATION VALVE, VACUUM BREAKER, MANUAL OVERRIDE SWITCH, 15mm COMPRESSION FITTINGS.

AIR SEPARATOR SCHEDULE

TAG	MAKE	MODEL	LOCATION	SERVICE	PIPE SIZE (mm)	MAX PRESSURE (kPa)	MAX TEMP (°C)	FLOW RATE (L/s)	PRESSURE DROP (kPa)	NOTES
AS-1	TACO	4902ADR-125	ROOM 145	HEATING SYSTEM	50	860	115	2.5	6.0	304 STAINLESS STEEL PALL RINGS, 5 MICRON PARTICLE REMOVAL.
AS-2	TACO	4903ADR-125	ROOM 145	HEATING SYSTEM	75	860	115	5.04	3.0	304 STAINLESS STEEL PALL RINGS, 5 MICRON PARTICLE REMOVAL.

TERMINAL HEATING UNIT SCHEDULE

TAG	MAKE	MODEL	LOCATION	DIMENSIONS (mm)			FLUID	CAPACITY (kW/m)	FLOW (L/s)	EWT (°C)	LWT (°C)	NOTES
				WIDTH	LENGTH	HEIGHT						
RP-1	TWA	LINEAR	SEE DRAWINGS	600	RECESSED IN CEILING		50% P.GLYCOL	SEE DRAWING	--	60	43	
RP-2	TWA	LINEAR	SEE DRAWINGS	300	RECESSED IN CEILING		50% P.GLYCOL	SEE DRAWING	--	60	43	
BF-1	SIGMA	44C100	SEE DRAWINGS	100	SEE DRAWINGS	100	50% P.GLYCOL	0.75	--	60	43	
WF-1	SIGMA	SWE-24S / 44C100	SEE DRAWINGS	135	SEE DRAWINGS	300	50% P.GLYCOL	1.25	--	60	43	c/w WALL MOUNTING BRACKETS

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Notes:

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Client

WABASCA-DESMARAIS

Project

WABASCA / DESMARAIS
GOVERNMENT BUILDING

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Project No.	9031	Drawn By	QK
Date	2017.04.28	Checked By	QK

Drawing Title

MECHANICAL
SCHEMATICS

Drawing No.

M9.0

HEAT RECOVERY VENTILATOR SCHEDULE

TAG	ERV-1
TYPE	OUTDOOR MODULAR
LOCATION	ROOF
AREAS SERVED	BUILDING
MANUFACTURER	ENGINEERED AIR
MODEL	DJX40/HRW900/0/MV
UNIT ELEVATION (m)	676
WIDTH (mm)	1910
LENGTH (mm)	6225
HEIGHT (mm)	2060
WEIGHT (kg)	3650
SUPPLY FAN	
AIRFLOW (L/s)	1420
ESP (Pa)	375
RPM	
MOTOR POWER (kW)	3.73
ELECTRICAL (VOLT/PH/HZ)	208/3/60
RETURN FAN	
AIRFLOW (L/s)	1420
ESP (Pa)	65
RPM	
MOTOR POWER (kW)	3.73
ELECTRICAL (VOLT/PH/HZ)	208/3/60
BURNER	
AIRFLOW (L/s)	1080 (1420 DURING FREE COOLING)
EAT (°C)	-40
LAT (°C)	13
CAPACITY (kW)	68
EFFICIENCY	90%
FILTER SECTION	
FRESH AIR	MERV 8
EXHAUST AIR	MERV 8
ENERGY RECOVERY	
TYPE	ENTHALPY WHEEL
O/A AIRFLOW (L/s)	1420
E/A AIRFLOW (L/s)	1420
O/A ENTERING TEMP (°C)	-40(WINTER)/29(SUMMER)
S/A LEAVING TEMP (°C)	-20(WINTER)/25(SUMMER)
E/A ENTERING TEMP (°C)	22(WINTER)/24(SUMMER)
E/A LEAVING TEMP (°C)	-1.1(WINTER)/28(SUMMER)
O/A CORRECTION FACTOR	1.02
SENS. ENERGY RECOVERY(kW)	36.6(WINTER)/6.6(SUMMER)
ENTHALPY RECOVERY (kW)	39.2(WINTER)/8.6(SUMMER)
MOTOR POWER (kW)	1.1

NOTES / OPTIONS

PACKAGED UNIT WITH SINGLE POINT POWER, VFDs ON SUPPLY FAN, EXHAUST FAN AND ENERGY RECOVERY WHEEL, SEPARATE POWER CONNECTION FOR MARINE LIGHTS IN EACH SECTION AND ONE CONVENIENCE PLUG, BACNET CARD, INTEGRAL BYPASS TO MAINTAIN MINIMUM FLOW ON BURNER, DRAIN PANS TO BELOW UNIT, BYPASSES ON E/A AND S/A FOR ENERGY RECOVERY WHEEL.

FAN COIL SCHEDULE

TAG	MAKE	MODEL	LOCATION	SERVICE	DIMENSIONS (mm)			AIR FLOW RATE (L/s)	HEATING COIL							HEATING CAPACITY (kW)	COOLING COIL							COOLING CAPACITY (kW)	FAN ESP (Pa)	FAN DRIVE	MOTOR POWER (W)	ELECTRICAL (VOLT/PH/HZ)	NOTES
					LENGTH	WIDTH	HEIGHT		EAT (°C)	LAT (°C)	FLUID	FLUID FLOW RATE (L/min)	EWT (°C)	LWT (°C)	FLUID PD (kPa)		EAT (°C)	LAT (°C)	FLUID	FLUID FLOW RATE (L/min)	EWT (°C)	LWT (°C)	FLUID PD (kPa)						
FC-01	TRANE	BCHD-36	ROOM 102	ROOM 103	860	1020	460	490	21.4	27.5	WATER	3.05	60	43	3	3.6	–	–	GLYCOL	5.76	7.2	12.8	30	6.2	75	DIRECT	375	208/1/60	ECM MOTOR, DIRECT DRIVE, PROVIDE MANUFACTURERS BOTTOM PULLOUT FILTER SECTION. CONTROLLER MOUNTED ON BOTTOM OF UNIT FOR ACCESS.
FC-02	TRANE	BCHD-36	ROOM 104	ROOM 105	860	1020	460	465	21.4	28.7	WATER	3.46	60	43	3	4.1	–	–	GLYCOL	5.11	7.2	12.8	30	5.5	75	DIRECT	375	208/1/60	ECM MOTOR, DIRECT DRIVE, PROVIDE MANUFACTURERS BOTTOM PULLOUT FILTER SECTION. CONTROLLER MOUNTED ON BOTTOM OF UNIT FOR ACCESS. PROVIDE CONDENSATE PUMP.
FC-03	TRANE	BCHD-18	ROOM 119	ROOMS 107, 108, 138	790	710	360	240	21.0	24.8	WATER	0.93	60	43	3	1.1	–	–	GLYCOL	2.88	7.2	12.8	30	3.1	75	DIRECT	375	120/1/60	ECM MOTOR, DIRECT DRIVE, PROVIDE MANUFACTURERS SIDE PULLOUT FILTER SECTION.
FC-04	TRANE	BCHD-12	ROOM 115	ROOMS 109, 110	790	610	360	60	18.9	25.8	WATER	0.42	60	43	3	0.5	–	–	GLYCOL	1.02	7.2	12.8	30	1.1	75	DIRECT	375	208/1/60	ECM MOTOR, DIRECT DRIVE, PROVIDE MANUFACTURERS SIDE PULLOUT FILTER SECTION.
FC-05	TRANE	BCHD-36	ROOM 114	ROOM 112	860	1020	460	675	21.5	27.6	WATER	4.22	60	43	3	5.0	–	–	GLYCOL	7.24	7.2	12.8	30	7.8	75	DIRECT	375	120/1/60	ECM MOTOR, DIRECT DRIVE, PROVIDE MANUFACTURERS SIDE PULLOUT FILTER SECTION.
FC-06	TRANE	BCHD-24	ROOM 114	ROOM 114	860	710	460	390	21.1	27.6	WATER	2.62	60	43	3	3.1	–	–	GLYCOL	4.37	7.2	12.8	30	4.7	75	DIRECT	375	208/1/60	ECM MOTOR, DIRECT DRIVE, PROVIDE MANUFACTURERS SIDE PULLOUT FILTER SECTION.
FC-07	TRANE	BCHD-18	ROOM 114	ROOMS 116, 117	790	710	360	200	21.1	29.3	WATER	1.69	60	43	3	2.0	–	–	GLYCOL	1.58	7.2	12.8	30	1.7	75	DIRECT	375	208/1/60	ECM MOTOR, DIRECT DRIVE, PROVIDE MANUFACTURERS SIDE PULLOUT FILTER SECTION.
FC-08	TRANE	BCHD-36	ROOM 118	ROOM 118	860	1020	460	405	21.4	29.0	WATER	3.12	60	43	3	3.7	–	–	GLYCOL	3.81	7.2	12.8	30	4.1	75	DIRECT	375	208/1/60	ECM MOTOR, DIRECT DRIVE, PROVIDE MANUFACTURERS SIDE PULLOUT FILTER SECTION.
FC-09	TRANE	BCHD-24	ROOM 124	ROOM 124	860	710	460	315	20.8	26.6	WATER	1.86	60	43	3	2.2	–	–	GLYCOL	3.16	7.2	12.8	30	3.4	75	DIRECT	375	208/1/60	ECM MOTOR, DIRECT DRIVE, PROVIDE MANUFACTURERS BOTTOM PULLOUT FILTER SECTION.
FC-10	TRANE	BCHD-18	ROOM 126	ROOM 126	790	710	360	240	20.7	29.6	WATER	2.20	60	43	3	2.6	–	–	GLYCOL	2.41	7.2	12.8	30	2.6	75	DIRECT	375	208/1/60	ECM MOTOR, DIRECT DRIVE, PROVIDE MANUFACTURERS SIDE PULLOUT FILTER SECTION.
FC-11	TRANE	BCHD-12	ROOM 130	ROOMS 165, 167, 168, 170	790	610	360	200	12.8	23.1	WATER	2.11	60	43	3	2.5	–	–	GLYCOL	2.41	7.2	12.8	30	2.6	75	DIRECT	375	208/1/60	ECM MOTOR, DIRECT DRIVE, PROVIDE MANUFACTURERS BOTTOM PULLOUT FILTER SECTION. CONTROLLER MOUNTED ON BOTTOM OF UNIT FOR ACCESS.
FC-12	TRANE	BCHD-18	ROOM 130	ROOMS 158, 159,161,162,164	790	710	360	250	12.8	24.7	WATER	3.04	60	43	3	3.6	–	–	GLYCOL	3.25	7.2	12.8	30	3.5	75	DIRECT	375	208/1/60	ECM MOTOR, DIRECT DRIVE, PROVIDE MANUFACTURERS BOTTOM PULLOUT FILTER SECTION. CONTROLLER MOUNTED ON BOTTOM OF UNIT FOR ACCESS.
FC-13	TRANE	BCHD-18	ROOM 135	ROOMS 150, 152,153,155,156	790	710	360	250	12.8	23.7	WATER	2.79	60	43	3	3.3	–	–	GLYCOL	3.53	7.2	12.8	30	3.8	75	DIRECT	375	208/1/60	ECM MOTOR, DIRECT DRIVE, PROVIDE MANUFACTURERS BOTTOM PULLOUT FILTER SECTION. CONTROLLER MOUNTED ON BOTTOM OF UNIT FOR ACCESS.
FC-14	TRANE	BCHD-54	ROOM 135	ROOM 139	1060	1020	560	610	22.0	23.8	WATER	1.10	60	43	3	1.3	–	–	GLYCOL	6.69	7.2	12.8	30	7.2	75	DIRECT	375	208/1/60	ECM MOTOR, DIRECT DRIVE, PROVIDE MANUFACTURERS BOTTOM PULLOUT FILTER SECTION. CONTROLLER MOUNTED ON BOTTOM OF UNIT FOR ACCESS.
FC-15	TRANE	BCHD-18	ROOM 135	ROOM 140,141, 142,144,148,173	790	710	360	280	16.1	23.2	WATER	2.03	60	43	3	2.4	–	–	GLYCOL	4.06	7.2	12.8	30	4.4	75	DIRECT	375	208/1/60	ECM MOTOR, DIRECT DRIVE, PROVIDE MANUFACTURERS BOTTOM PULLOUT FILTER SECTION. CONTROLLER MOUNTED ON BOTTOM OF UNIT FOR ACCESS.

NOTE: ALL FAN COILS TO C/W MANUFACTURER' S CONDENSATE PUMP MOUNTED PLACE ON FAN COIL UNIT. ENERGIZE PUMP ONLY WHERE CONDENSATE PIPING CAN NOT BE GRAVITY PIPED.

VARIABLE AIR VOLUME BOX SCHEDULE

TAG	MAKE	MODEL	SERVICE	INLET SIZE (mm)	OPERATING DESIGN RANGE		NOTES
					MIN. FLOW (L/s)	MAX FLOW (L/s)	
VAV-1	PRICE	SDV	FC-01	100ø	30	80	SUPPLY AIR
VAV-2	PRICE	SDV	FC-02	100ø	30	80	SUPPLY AIR
VAV-3	PRICE	SDV	FC-03	100ø	25	70	SUPPLY AIR
VAV-4	PRICE	SDV	FC-04	100ø	20	60	SUPPLY AIR
VAV-5	PRICE	SDV	FC-05	100ø	35	90	SUPPLY AIR
VAV-6	PRICE	SDV	FC-06	125ø	40	100	SUPPLY AIR
VAV-7	PRICE	SDV	FC-07	100ø	20	60	SUPPLY AIR
VAV-8	PRICE	SDV	FC-08	100ø	25	70	SUPPLY AIR
VAV-9	PRICE	SDV	FC-09	125ø	40	100	SUPPLY AIR
VAV-10	PRICE	SDV	FC-10	125ø	35	90	SUPPLY AIR
VAV-11	PRICE	SDV	FC-11	175ø	200	200	SUPPLY AIR
VAV-12	PRICE	SDV	FC-12	175ø	250	250	SUPPLY AIR
VAV-13	PRICE	SDV	FC-13	175ø	250	250	SUPPLY AIR
–	–	–	–	–	–	–	–
VAV-15	PRICE	SDV	FC-15	150ø	80	180	SUPPLY AIR
VAV-EX-01	PRICE	SDE	ROOMS 165, 167, 168, 170	250ø	200	200	EXHAUST AIR
VAV-EX-02	PRICE	SDE	ROOMS 158,159,161,162,164	250ø	250	250	EXHAUST AIR
VAV-EX-03	PRICE	SDE	ROOMS 150,152,153,155,156	250ø	250	250	EXHAUST AIR

HUMIDIFIER SCHEDULE

TAG	MAKE	MODEL	TYPE	LOCATION	SERVICE	INPUT (kW)	STEAM CAPACITY	WATER (L/s)	MOTOR (kW)	ELECTRICAL (VOLT/PH/HZ)	NOTES
HU-1	DRI-STEEM	GTS-300	NATURAL GAS	ROOM 145	ERV-1	–	WATER	–	2.2	120/1/60	ULTRASORB STEAM DISPERSION TUBE PANEL

FAN SCHEDULE

TAG	MAKE	MODEL	TYPE	LOCATION	SERVICE	DRIVE	AIRFLOW (L/s)	ESP (Pa)	RPM	MOTOR (Watts)	ELECTRICAL (VOLT/PH/HZ)	NOTES
EF-1	GREENHECK	SQ-90-VG	INLINE	CORRIDOR 120	WASHROOM EXHAUST	DIRECT	215	60	–	125	120/1/60	VARIGREEN MOTOR, MOTOR COVER, INSULATED HOUSING, INLET/OUTLET ADAPTERS, SPRING ISOLATORS, CONSTANT AIRFLOW CONTROL w/ PILOT TUBE PROBE
EF-2	GREENHECK	SQ-120-VG	INLINE	ROOM - 172	SECURE AREA EXHAUST	DIRECT	660	100	–	375	120/1/60	VARIGREEN MOTOR, MOTOR COVER, INSULATED HOUSING, INLET/OUTLET ADAPTERS, SPRING ISOLATORS, VARIABLE AIRFLOW CONTROL w/ PILOT TUBE PROBE
EF-3	GREENHECK	SQ-65-VG	INLINE	ROOM - 172	SECURE AREA EXHAUST	DIRECT	70	60	–	125	120/1/60	VARIGREEN MOTOR, MOTOR COVER, INSULATED HOUSING, INLET/OUTLET ADAPTERS, SPRING ISOLATORS, CONSTANT AIRFLOW CONTROL w/ PILOT TUBE PROBE
EF-4	GREENHECK	SQ-85-VG	INLINE	ROOM - 128	GARAGE EXHAUST	DIRECT	160	50	–	125	120/1/60	VARIGREEN MOTOR, MOTOR COVER, INSULATED HOUSING, INLET/OUTLET ADAPTERS, SPRING ISOLATORS, CONSTANT AIRFLOW CONTROL w/ PILOT TUBE PROBE
EF-5	GREENHECK	SQ-85-VG	INLINE	ROOM - 149	GARAGE EXHAUST	DIRECT	200	50	–	125	120/1/60	VARIGREEN MOTOR, MOTOR COVER, INSULATED HOUSING, INLET/OUTLET ADAPTERS, SPRING ISOLATORS, CONSTANT AIRFLOW CONTROL w/ PILOT TUBE PROBE
EF-6	GREENHECK	CUE-065-VG	ROOF EXHAUST	ROOF -133	EXHAUST	DIRECT	60	60	–	125	120/1/60	ROOF CURB MOUNTED, VARIGREEN MOTOR, SPEED CONTROLLER MOUNTED ON SIDE OF UNIT, INSULATED ROOF CURB MINIMUM 300 HIGH, INSULATED MOTORIZED DAMPER AT EXIT THRU ROOF, SECURITY BARS AT EXIT THRU ROOF.
TF-1	GREENHECK	SPA-125	CABINET	ROOM - 137	TRANSFER	DIRECT	60	50	–	20	120/1/60	T-BAR CEILING MOUNTED, ACOUSTIC INSULATED HOUSING, SPEED CONTROLLER MOUNTED ON SIDE OF UNIT, ALUMINUM GRILLE, VIBRATION ISOLATION.
TF-2	GREENHECK	SPA-125	CABINET	ROOM - 136	TRANSFER	DIRECT	60	50	–	20	120/1/60	T-BAR CEILING MOUNTED, ACOUSTIC INSULATED HOUSING, SPEED CONTROLLER MOUNTED ON SIDE OF UNIT, ALUMINUM GRILLE, VIBRATION ISOLATION.
F-1	GREENHECK	SQ-120-VG	INLINE	ROOM - 145	RELIEF AIR	DIRECT	710	60	–	375	120/1/60	VARIGREEN MOTOR, MOTOR COVER AND INSULATED HOUSING, INLET/OUTLET ADAPTERS, SPRING ISOLATORS, CONSTANT AIRFLOW CONTROL w/ PILOT TUBE PROBE
CF-1	BIGASS	HAIKU H	CEILING	ROOM 103	ROOM CIRC.	DIRECT	–	–	135 MAX.	FRAC.	120/1/60	3 BLADE, 2100mm (84") DIAMETER CEILING FAN WITH REMOTE CONTROL. CARAMEL BAMBOO FINISH. UNIVERSAL MOUNT. PROVIDE OPTIONAL WALL CONTROLLER. CONFIRM INSTALLATION LOCATION OF WALL CONTROLLER AND MOUNTING HEIGHT OF FAN WITH ARCHITECT. PROVIDE FRESH BATTERIES FOR REMOTE CONTROL.
CF-2	BIGASS	HAIKU H	CEILING	ROOM 105	ROOM CIRC.	DIRECT	–	–	135 MAX.	FRAC.	120/1/60	SAME AS CF-1
CF-3	BIGASS	HAIKU H	CEILING	ROOM 119	ROOM CIRC.	DIRECT	–	–	135 MAX.	FRAC.	120/1/60	SAME AS CF-1

SPLIT SYSTEM AIR CONDITIONING SYSTEM SCHEDULE

TAG	MAKE	MODEL	TYPE	SERVICE	AIRFLOW (L/s)	CAPACITY (kW)	REFRIGERANT	MOTOR (kW)	ELECTRICAL (VOLT/PH/HZ)	NOTES
AC-1	LIEBERT	MMD36E7Y00DA	EVAPORATOR	ROOM 139	590	9.2	R407C	–	208/3/60	FLA=2.8 Amps, WSA=3.5 Amps, OPD=15Amps C/W DISCONNECT SWITCH.
CU-1	LIEBERT	PFH037A-Y17	CONDENSING UNIT	(AC-1) ON ROOF	--	MATCH AC-1	R407C	–	208/3/60	FLA=12.8 Amps, WSA=15.7 Amps, OPD=25Amps, LOCATED ON ROOF. C/W DISCONNECT SWITCH. LOW AMBIENT OPERATION

GRILLES / DIFFUSERS / LOUVERS SCHEDULE

TAG	MAKE	MODEL	SIZE (mm)	DUCT SIZE (mm)	CAPACITY (L/s)	MOUNTING	NOTES
S-1	PRICE	SCD	600x600	SEE DWGS	SEE DWGS	T-BAR	SQUARE CONE DIFFUSER
S-2	VIRTUCOM	SCO	SEE DWGS.	SEE DWGS	SEE DWGS	CONCRETE	CUSTOM MADE DIFFUSER / GRILLE
S-3	PRICE	SCD	300x300	SEE DWGS	SEE DWGS	DRYWALL	SQUARE CONE DIFFUSER
S-4	PRICE	1220/JSP1220/1/200	1220x50	SEE DWGS	SEE DWGS	DRYWALL	1 SLOT DIFFUSER C/W INSULATED MANUFACTURERS PLENUM. PROVIDE NECESSARY ACCESSORIES FOR COMPLETE INSTALLATION.
S-5	PRICE	PDC/4/B12	600x600	SEE DWGS	SEE DWGS	T-BAR	4 WAY AIR CORNER AIR PATTERN.
R-1	PRICE	80/TB/B12	SEE DWGS.	SEE DWGS	SEE DWGS	T-BAR	EGG CRATE GRILLE
R-2	PRICE	1220/JS220	1220x50	SEE DWGS	SEE DWGS	DRYWALL	1 SLOT DIFFUSER. PROVIDE NECESSARY ACCESSORIES FOR COMPLETE INSTALLATION.
E-1	–	–	SEE DWGS.	SEE DWGS	SEE DWGS	DUCT	PROVIDE AND INSTALL 16 GAUGE, 12mm SQUARE, HOT DIPPED GALVANIZED WELDED WIRE MESH SCREEN ON DUCT INLETS AND OUTLET AS INDICATED ON DRAWINGS.
E-2	VIRTUCOM	SCO	SEE DWGS.	SEE DWGS	SEE DWGS	DUCT	CUSTOM MADE DIFFUSER / GRILLE
E-3	PRICE	80/F/A/B12	SEE DWGS.	SEE DWGS	SEE DWGS	DRYWALL	EGG CRATE GRILLE
E-4	PRICE	80/F/A/B12	SEE DWGS.	SEE DWGS	SEE DWGS	CONCRETE	EGG CRATE GRILLE
MESH	–	–	SEE DWGS.	SEE DWGS	SEE DWGS	DUCT	PROVIDE AND INSTALL 16 GAUGE, 12mm SQUARE, HOT DIPPED GALVANIZED WELDED WIRE MESH SCREEN ON DUCT INLETS AND OUTLET AS INDICATED ON DRAWINGS. ENSURE NO SHARP EDGES.
L-1	AIROLITE	K6746	SEE DWGS.		SEE DWGS	WALL	ALUMINUM DRAINABLE LOUVER, WITH REMOVABLE BIRD SCREEN. PROVIDE MANUFACTURERS 2-COAT FLUOROPOLYMER: LOUVERS SHALL BE CLEANED, PRETREATED AND FINISHED WITH AN INHIBITIVE PRIMER AND OVEN-CURED KYNAR 500® / HYLAR 5000® RESIN COATING WITH MINIMUM 1.2 MILS DRY-FILM COATING THICKNESS THAT MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF AAMA 2605, "VOLUNTARY SPECIFICATION, PERFORMANCE REQUIREMENTS AND TEST PROCEDURES FOR SUPERIOR PERFORMANCE ORGANIC COATINGS ON ALUMINUM EXTRUSIONS AND PANELS." PROVIDE SECURITY BARS ON OUTLETS AND INLETS THRU WALLS.

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

Notes:

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WILLIAMS ENGINEERING CANADA

Issues/Revisions

No.	Description	Date	By
0	ISSUED FOR TENDER	2017.09.12	QK

Seal

PERMIT TO PRACTICE
WILLIAMS ENGINEERING CANADA INC.
PERMIT NUMBER
P 10527
The Association of Prof. Engineers and Geoscientists of Alberta.

Client

WABASCA-DESMARAIS

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

Scale	AS NOTED	Designed By	QK
Project No.	9031	Drawn By	QK
Date	2017.04.28	Checked By	QK

Drawing Title

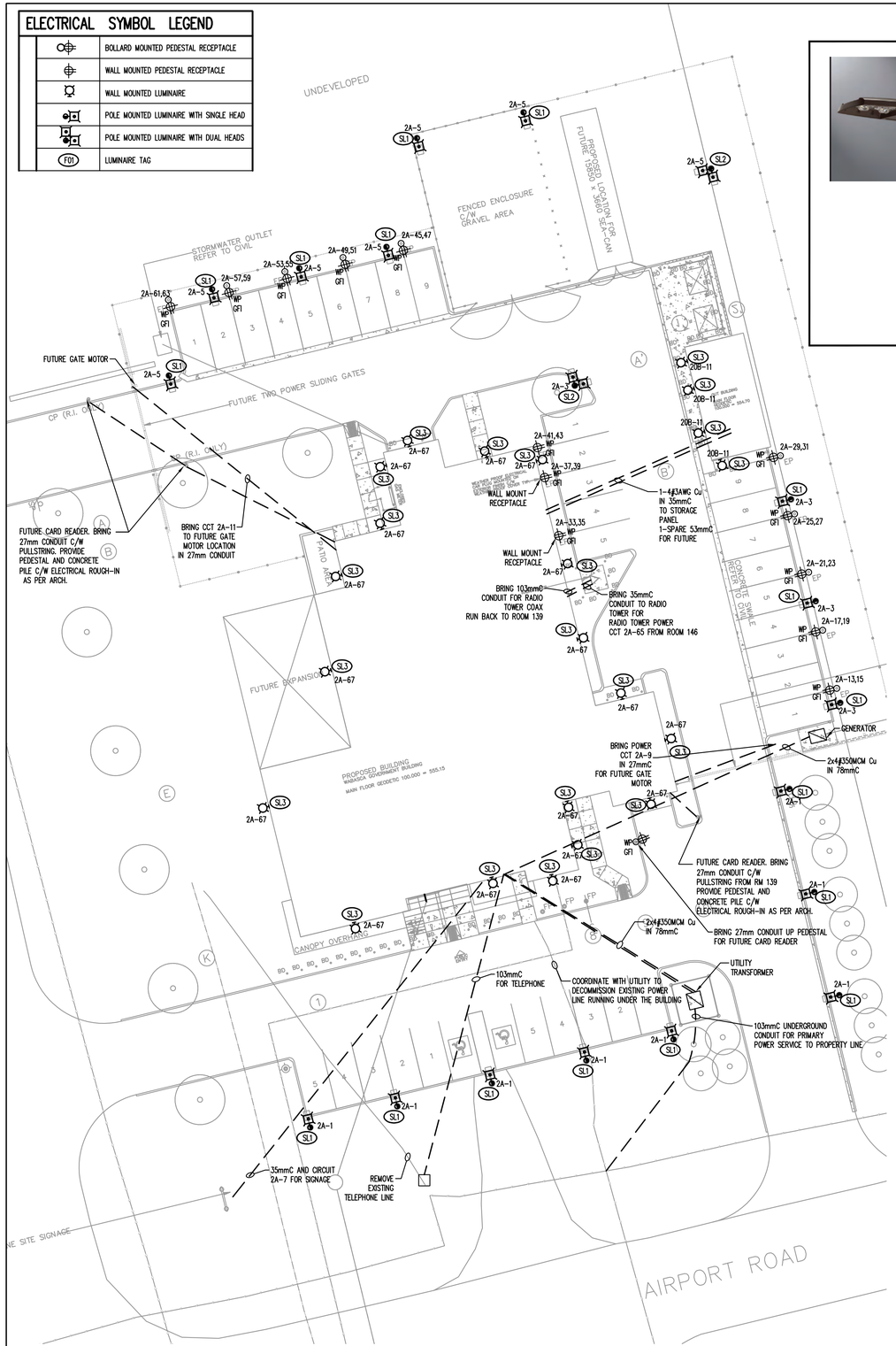
MECHANICAL SCHEMATICS

Drawing No.

M9.1

ELECTRICAL SYMBOL LEGEND

	BOLLARD MOUNTED PEDESTAL RECEPTACLE
	WALL MOUNTED PEDESTAL RECEPTACLE
	WALL MOUNTED LUMINAIRE
	POLE MOUNTED LUMINAIRE WITH SINGLE HEAD
	POLE MOUNTED LUMINAIRE WITH DUAL HEADS
F01	LUMINAIRE TAG



1 DETAIL – SITE PLAN
E1 SCALE: 1:250

GENERAL NOTES:

1. EXTERIOR LIGHTING TO BE CONTROLLED VIA PHOTOCELL ON/TIMECLOCK OFF.

DESCRIPTION: PREVAIL AREA LIGHT
LAMP TEMPERATURE: 3000K
DISTRIBUTION TYPE: TYPE 4
MOUNTING: POLE MOUNT 20 FEET
HOUSING:
LUMENS: 6,139
WATTS: 57W
SPECIAL REQUIREMENTS:

ACCEPTABLE PRODUCTS:

MANUFACTURER:	PART NUMBER:
#1: COOPER	PRV-A15-D-UNV-T4-SA-BZ 7030-HSS
#2: ACCEPTED SUBSTITUTION	

Products are listed to establish reference standards. For acceptance of substitutions refer to General Conditions of specification.

WILLIAMS ENGINEERING | LUMINAIRE SCHEDULE | TYPE No. SL1

DESCRIPTION: PREVAIL AREA LIGHT
LAMP TEMPERATURE: 3000K
DISTRIBUTION TYPE: TYPE 4
MOUNTING: POLE MOUNT 20 FEET
HOUSING:
LUMENS: 6,139
WATTS: 57W
SPECIAL REQUIREMENTS:
DUAL HEADS

ACCEPTABLE PRODUCTS:

MANUFACTURER:	PART NUMBER:
#1: COOPER	PRV-A15-D-UNV-T4-SA-BZ 7030-HSS-MA1014
#2: ACCEPTED SUBSTITUTION	

Products are listed to establish reference standards. For acceptance of substitutions refer to General Conditions of specification.

WILLIAMS ENGINEERING | LUMINAIRE SCHEDULE | TYPE No. SL2

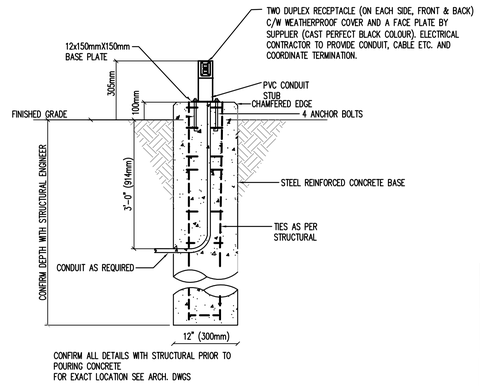
DESCRIPTION: LED WALL PACK
LAMP TEMPERATURE: 3000K
DISTRIBUTION TYPE: BL3
MOUNTING: WALL MOUNT 2.7m AFF
HOUSING:
LUMENS: 2,231
WATTS: 26W
SPECIAL REQUIREMENTS:

ACCEPTABLE PRODUCTS:

MANUFACTURER:	PART NUMBER:
#1: COOPER	ENV-F01-LED-E1-BL3-AP-7030
#2: ACCEPTED SUBSTITUTION	

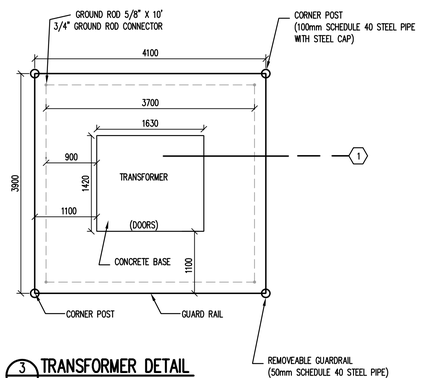
Products are listed to establish reference standards. For acceptance of substitutions refer to General Conditions of specification.

WILLIAMS ENGINEERING | LUMINAIRE SCHEDULE | TYPE No. SL3



CONFIRM ALL DETAILS WITH STRUCTURAL PRIOR TO POURING CONCRETE
FOR EXACT LOCATION SEE ARCH. DWGS

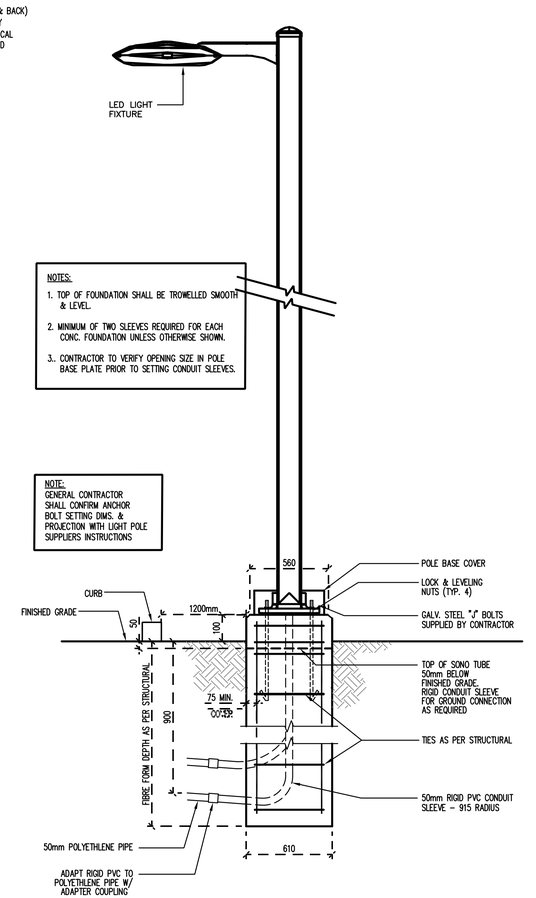
2 CAR PEDESTAL RECEPTACLE DETAIL
E1 SCALE: NTS



3 TRANSFORMER DETAIL
E1 SCALE: 1:50

DETAIL 1 KEYNOTES:

1 HIGH VOLTAGE 103mm CONDUIT RIGID PVC.



GENERAL NOTES:

1. ELECTRICAL CONTRACTOR TO ENSURE ALL CONDUITS ARE RUN UNDERGROUND FOR SITE SERVICES.
2. FOR LOCATION SEE ARCH. DWGS.

4 POLE MOUNTED LUMINAIRE DETAIL
E1 SCALE: NTS

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

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WILLIAMS ENGINEERING CANADA

Issues/Revisions

No.	Description	Date	By
G	ISSUED FOR TENDER	2017.09.12	BR
F	ISSUED FOR PRE-TENDER REVIEW	2017.09.08	QK
E	ISSUED FOR 95% REVIEW	2017.08.08	QK

Seal

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PERMIT NUMBER P 10527
The Association of Prof. Engineers and Geoscientists of Alberta.

PROFESSIONAL ENGINEER ALBERTA BENJAMIN RAJEWSKI
09/12/2017

Client

WABASCA-DESMARAIS

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

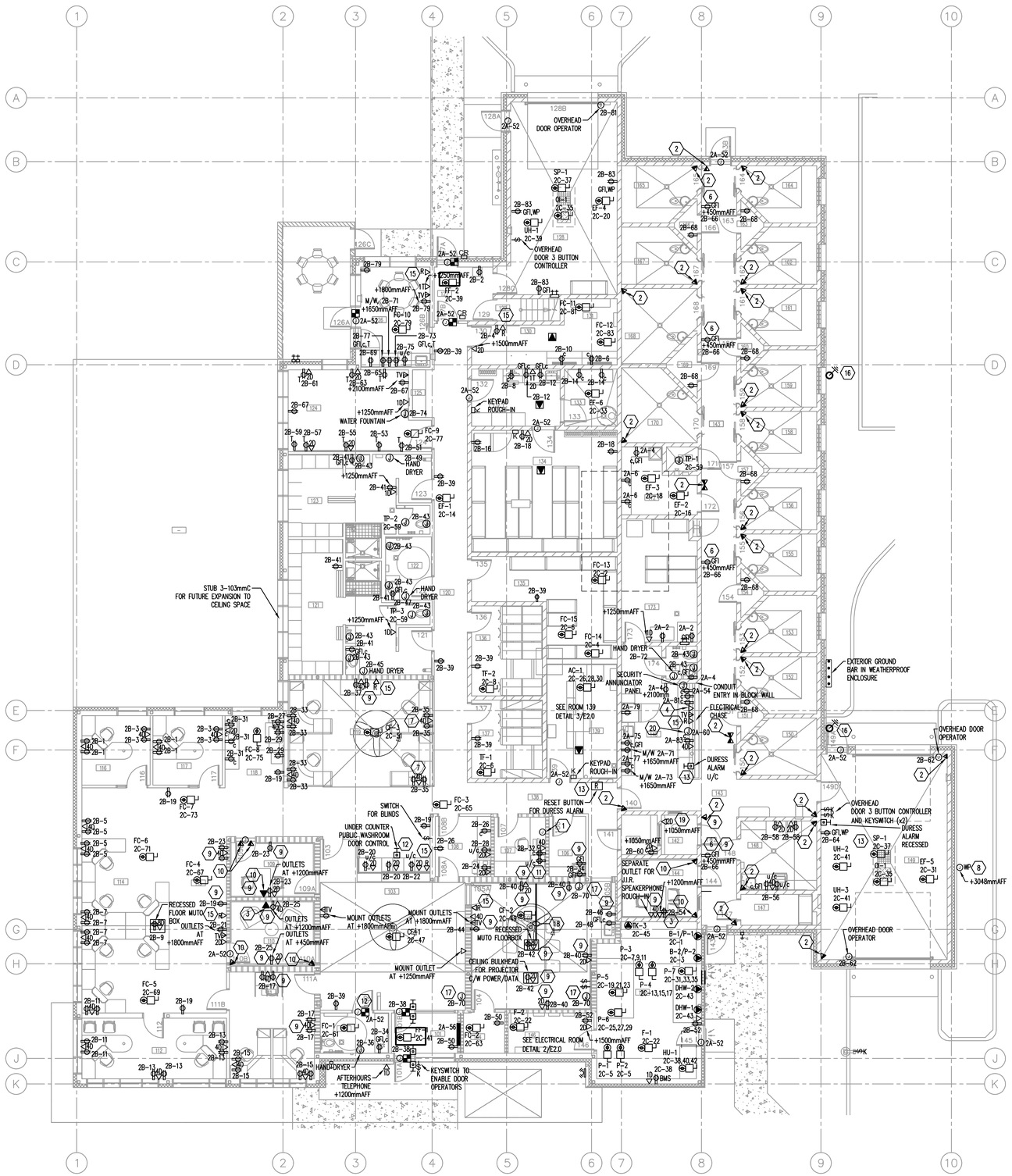
Scale	AS NOTED	Designed By	AWM/QK
Project No.	9031	Drawn By	AWM/QK
Date	2001 JANUARY 00	Checked By	QK

Drawing Title

ELECTRICAL SITE PLAN

Drawing No.

E1



1 POWER/DATA PLAN
E2.0 SCALE: 1:100

ELECTRICAL SYMBOL LEGEND

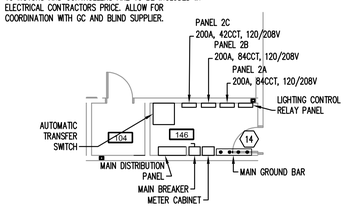
	DUPLEX RECEPTACLE DESCRIPTORS: c = MOUNTED ABOVE COUNTER GFI = GROUND FAULT INTERRUPTER WP = WEATHER PROOF u/c = UNDER COUNTER T = 20A TSLOT RECEPTACLE
	QUAD RECEPTACLE
	SPECIAL RECEPTACLE; SEE DRAWING NOTES
J	JUNCTION BOX
M	MOTOR CONNECTION
	MOTOR EQUIPMENT DISCONNECT
CR	CARD READER
K	KEYSWITCH
P	PUSHBUTTON
	ELECTRIC STRIKE
	MOTION DETECTOR
K	KEYPAD ROUGH-IN
	MICROPHONE OUTLET
	TV OUTLET
	CCVE OUTLET
	VOICE/DATA OUTLET, #D/#T INDICATES CAT6A DATA DROPS

KEYNOTES:

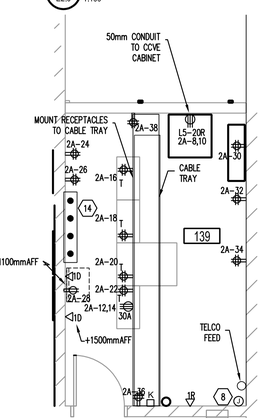
1. WALL BOX ABOVE COUNTER TO JUNCTION BOX ABOVE CEILING HOME RUN TO ROOM 139 FOR CCVE MICROPHONE.
2. CCVE–CONDUIT C/W PULLSTRING HOME RUN TO ROOM 139. IN ROOMS 140–174, EXCLUDING ROOMS 145 & 146, SHALL HAVE A SECURITY CAULK AT JOINT TO WALL/CEILING.
3. MICROPHONE OUTLET–HOME RUN TO ROOM 107.
4. CCVE MONITORS HOME RUN TO ROOM 139 (5 MONITORS AND RUNS). REFER TO ARCHITECTURAL ELEVATION 3/A6.2 FOR DETAIL OF MOUNTING.
5. NOT USED
6. RECEPTACLE IS TO BE RECESSED INTO THE WALL.
7. SYSTEMS FURNITURE. PROVIDE CONNECTION INTO FURNITURE.
8. RUN A 53mm EMT CONDUIT FOR THE MOBILE COMMAND UNIT AT CAPPED WITH A WEATHERPROOF JUNCTION BOX AT THE EXTERIOR WALL AT 10 FT AFF TO THE ROOM 139. PROVIDE A JUNCTION BOX FOR THE 53mm CONDUIT IN THE ROOM 139.
9. PROVIDE ACOUSTIC PUTTY AROUND OUTLETS AS WELL AS PLASTIC VAPOUR BARRIER. ENSURE THAT NO OUTLET SHARES THE SAME STUD SPACE. GROUT BEHIND BOXES IN CONCRETE BLOCK WALLS.
10. CCVE AND MICROPHONE TO HOME RUN ROOM 107.
11. PROVIDE A 27mm EMT CONDUIT FROM ROOM 107 BACK TO THE ROOM 139 C/W PULLSTRING FOR FUTURE USE.
12. PUSHBUTTON TO RELEASE ELECTRIC STRIKE ON WASHROOM DOOR.
13. PANIC DURESS ALARM. PROVIDE 27mm CONDUIT C/W PULL STRONG FROM PANIC/DURESS ALARM WITH SOUNDING DEVICE. RESET BUTTON LOCATED IN ROOM 138, JUST OUTSIDE DOOR 140.
14. RUN #2/0AWG CU FROM MAIN GROUND BUS BAR TO THE MAIN TELECOM BUS BAR.
15. R INDICATES A DATA OUTLET FOR RADIO REMOTE. DATA CABLING IN CONDUIT WILL HOME RUN TO ROOM 139 RADIO SWITCH. PROVIDE LABEL INDICATING OUTLET IS FOR RADIO.
16. CONTRACTOR TO SUPPLY 53mm CONDUITS FROM THE ANTENNA MAST TO ROOM 139, BOTH CONDUITS TO BE TERMINATED HIGH ON A WALL SIDE BY SIDE. CONTRACTOR TO SUPPLY AND INSTALL THE ANTENNA MAST. CONTRACTOR TO INSTALL COAX CABLES SUPPLIED BY THE ROMP, AND LEAVE COAX CABLES BOTH ENDS UN–TERMINATED. THE ANTENNA WILL BE SUPPLIED AND INSTALLED BY THE OWNER. COAX CABLE TO RUN INTO CRAWLSPACE ABOVE ROOMS 150 & 159.
17. SUPPLY AND INSTALL POWER FOR MOTORIZED BLINDS. PROVIDE SWITCHES AT ONE LOCATION FOR BLINDS IN ROOM 105. SWITCH FOR ROOM 103 BLINDS TO BE AT RECEPTION DESK. CONFIRM WITH MANUFACTURER SHOP DRAWINGS POWER SUPPLY ROUGH–IN LOCATION AND POWER SUPPLY REQUIREMENTS.
18. PROVIDE AN EMPTY 50mm CONDUIT BETWEEN THE FLOORBOX AND THE WALL FOR FUTURE AV CONNECTIONS.
19. PROVIDE CIT40 SECURITY PHONE AT +1050mmAFF FOR ROOM 142.
20. SUPPLY POWER TO MECHANICAL CONTROL PANEL. EXACT LOCATION AS PER MECHANICAL PLANS.

GENERAL NOTES:

1. NOTE THAT THE DOOR ACCESS CONTROL, CCVE AND MICROPHONE LOCATIONS WITH HOME RUNS ARE CONDUIT ROUGH–IN ONLY AND ARE TO BE REFERRED TO AS THE SECURITY ROUGH–INS.
2. PROVIDE 27mm CONDUIT C/W PULL STRING FOR ALL SECURITY ROUGH–IN EXCEPT OTHERWISE NOTED ON DRAWINGS AND DETAILS. ALL BOXES SHALL HAVE ACOUSTIC INSULATION AND CAULKING TO ATTAIN REQUIRED STC RATING.
3. NO EXPOSED CONDUITS ARE PERMITTED. ALL CONDUITS ARE TO BE RUN WITHIN THE WALLS.
4. COMBINE POWER AND DATA INTO SINGLE OUTLET BOXES WHERE POSSIBLE. IN ACOUSTIC WALLS THIS IS NECESSARY SO DEVICES AREN'T EXTENSIVELY SPACED OUT BETWEEN EACH OTHER.
5. ALL MOTORIZED BLIND COORDINATION AND CONNECTION TO MOTORS AND CONTROLLERS ARE TO BE INCLUDED IN ELECTRICAL CONTRACTORS PRICE. ALLOW FOR COORDINATION WITH GC AND BLIND SUPPLIER.



2 ROOM 146 DETAIL
E2.0 1:100



3 ROOM 139 DETAIL
E2.0 1:50

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Notes:

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-
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WILLIAMS ENGINEERING CANADA

Issues/Revisions

No.	Description	Date	By
0	ISSUED FOR TENDER	2017.09.12	QK

Seal

PROFESSIONAL ENGINEER ALBERTA BENJAMIN RAJENDRAN
09/12/2017

PERMIT TO PRACTICE
WILLIAMS ENGINEERING CANADA INC.
PERMIT NUMBER
P 10527
The Association of Prof. Engineers and Geoscientists of Alberta.

Client

WABASCA-DESMARAIS

Project

WABASCA / DESMARAIS
GOVERNMENT BUILDING

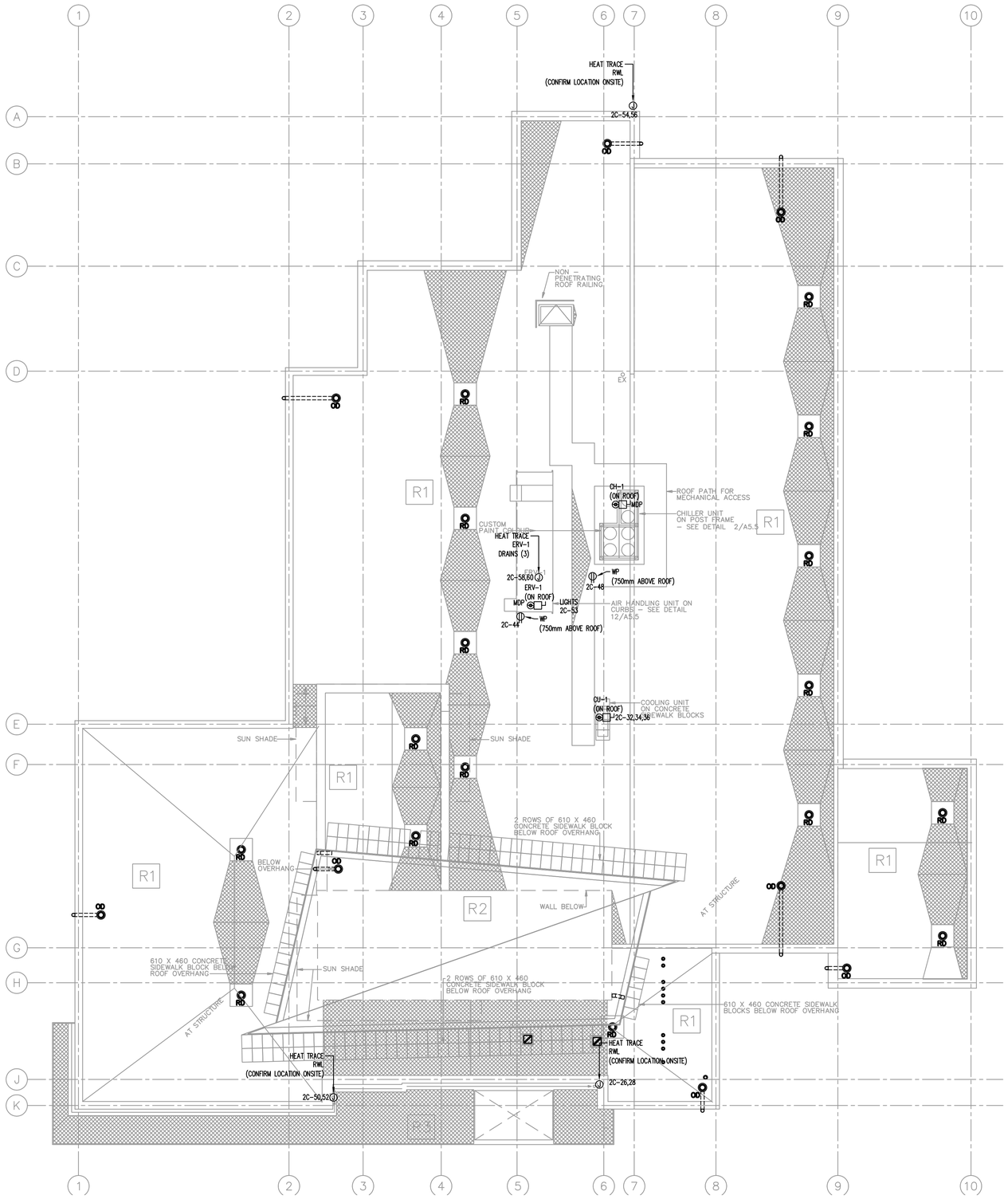
Scale	AS NOTED	Designed By	AWM/QK
Project No.	9031	Drawn By	AWM/QK
Date	2001 JANUARY 00	Checked By	QK

Drawing Title

MAIN FLOOR
POWER & DATA PLAN

Drawing No.

E2.0



1 E2.1 ELECTRICAL ROOF PLAN
SCALE: 1:100

ELECTRICAL SYMBOL LEGEND

	DUPLEX RECEPTACLE DESCRIPTORS: c = MOUNTED ABOVE COUNTER GFI = GROUND FAULT INTERRUPTER WP = WEATHER PROOF u/c = UNDER COUNTER T = 20A TSLOT RECEPTACLE
	QUAD RECEPTACLE
	SPECIAL RECEPTACLE; SEE DRAWING NOTES
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	ELECTRIC STRIKE
	MOTION DETECTOR
K	KEYPAD ROUGH-IN
	MICROPHONE OUTLET
	TV OUTLET
	CCVE OUTLET
	VOICE/DATA OUTLET, #D/#T INDICATES CAT6A DATA DROPS

HEAT TRACE SCHEDULE

TAG	MAKE	MODEL	TYPE	SERVICE	LENGTH	ELECTRICAL (V/PH/HZ)	NOTES
-	PENTAIR	GUARDIAN 8W/FT	SELF-REGULATING CABLE	RAINWATER LEADERS, ERV-1 DRAINS	PER MECH.	208/1/60	PROVIDE CABLE FITTINGS AS RECOMMENDED BY MANUFACTURER. PROVIDE GFI BREAKERS. HEAT TRACE ENTIRE LENGTH OF PIPE PLUS 10 FEET INSIDE BUILDING OR PIT. PROVIDING TERMINATING KIT AND THERMOSTAT.

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

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- It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.
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WILLIAMS ENGINEERING CANADA

Issues/Revisions

No.	Description	Date	By
G	ISSUED FOR TENDER	2017.09.12	BR
F	ISSUED FOR PRE-TENDER REVIEW	2017.09.08	QK
E	ISSUED FOR 95% REVIEW	2017.08.08	QK

Seal

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PERMIT NUMBER P 10527
The Association of Prof. Engineers and Geoscientists of Alberta.

PROFESSIONAL ENGINEER ALBERTA
BENJAMIN RAJEWSKI
09/12/2017

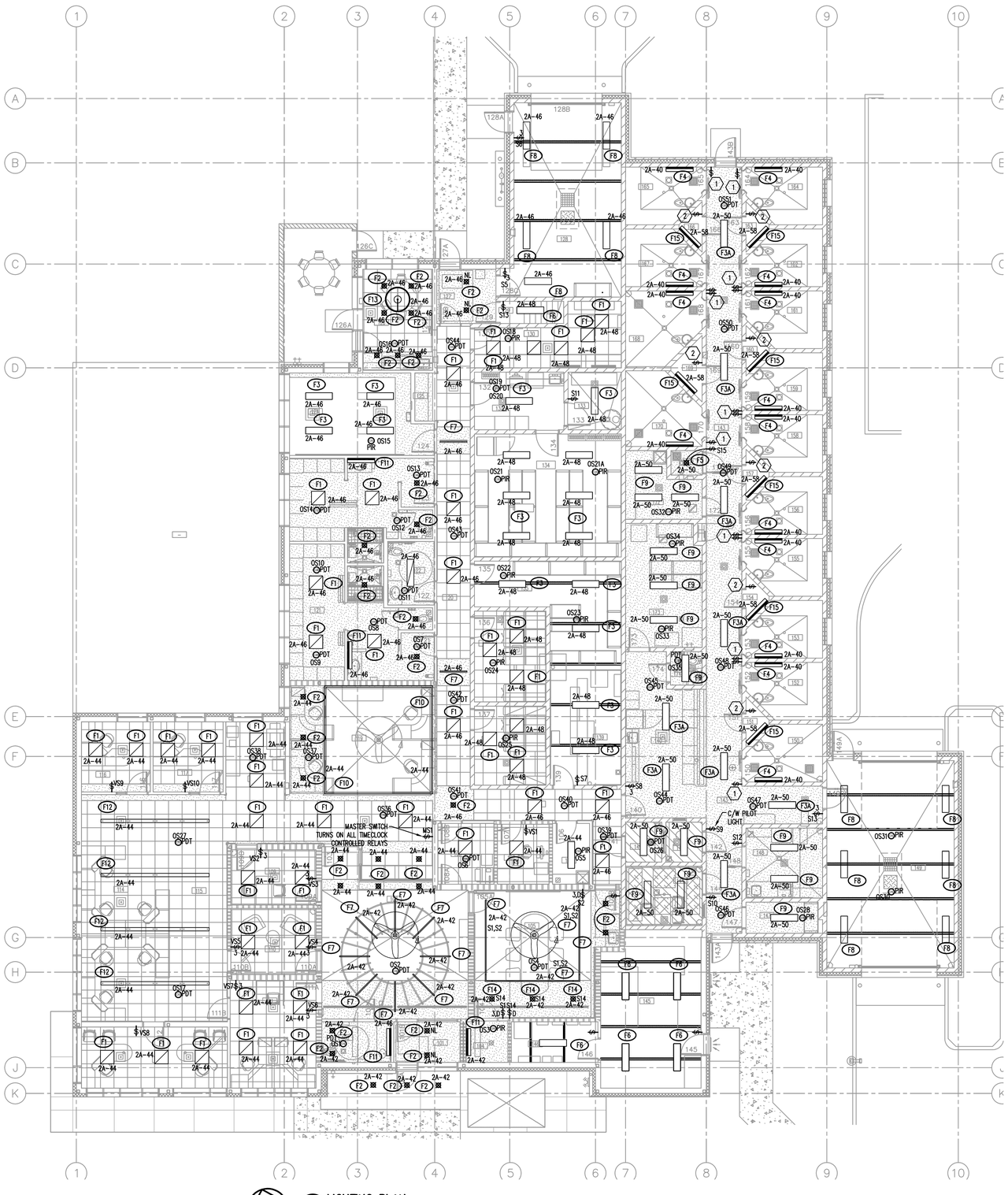
Client
WABASCA-DESMARAIS

Project
WABASCA / DESMARAIS GOVERNMENT BUILDING

Scale	AS NOTED	Designed By	AWM/QK
Project No.	9031	Drawn By	AWM/QK
Date	2001 JANUARY 00	Checked By	QK

Drawing Title
ELECTRICAL ROOF PLAN

Drawing No.
E2.1



1 LIGHTING PLAN
E3.0 SCALE: 1:100

ELECTRICAL SYMBOL LEGEND

	RECESSED LUMINAIRE
	SURFACE OR PENDANT LUMINAIRE
	LUMINAIRE, FLUORESCENT, UNSWITCHED (NIGHT LIGHT)
	WALL MOUNTED LUMINAIRE
	RECESSED DOWNLIGHT
	WALL MOUNTED LUMINAIRE
F01	LUMINAIRE TAG
	SWITCH, SINGLE-POLE: D = DIMMER SWITCH 3 = 3 WAY SWITCH VS = VACANCY SENSOR
	CEILING MOUNTED OCCUPANCY SENSOR PIR = PASSIVE INFRARED PDT = PASSIVE DUAL TECHNOLOGY

KEYNOTES:

1. 3 POSITION SWITCH FOR CELL LIGHTS
2. LINE VOLTAGE SWITCH WITH BUILT IN OCCUPANCY SENSOR.

GENERAL NOTES:

1. FACILITY HAS A 100% RATED GENERATOR FOR COMPLETE BUILDING LOAD FOR 24HOURS. ALL LIGHTING IS CONNECTED TO THIS GENERATOR AND WILL ACT AS EMERGENCY LIGHTING IN THE CASE OF POWER FAILURE.
2. SWITCHES SHOWN OUTSIDE OF CELLS ARE TO BE LINE VOLTAGE 3 POSITION SWITCHES FOR CELL LIGHTS. ALL OTHER SWITCHES AND SENSORS ARE TO BE LOW VOLTAGE.
3. LIGHTING, CONDUIT, EQUIPMENT, ETC. IS NOT TO BE INSTALLED BELOW FAN COIL UNITS. MAINTENANCE ACCESS TO FAN COIL UNITS IS TO BE MAINTAINED. CONTRACTOR TO COORDINATE WITH MECHANICAL TRADE ONSITE FOR INSTALLED FAN COIL LOCATIONS AND SIZES.

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PROFESSIONAL ENGINEER ALBERTA
BENJAMIN RAJEWSKI
09/12/2017

Client

WABASCA-DESMARAIS

Project

WABASCA / DESMARAIS
GOVERNMENT BUILDING

Scale	AS NOTED	Designed By	AWM/QK
Project No.	9031	Drawn By	AWM/QK
Date	2001 JANUARY 00	Checked By	QK

Drawing Title

MAIN FLOOR
LIGHTING PLAN

Drawing No.

E3.0

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

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-
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LAMP DESCRIPTION: 4000 LUMEN LED
LAMP TEMPERATURE: 4100K
LAMP QUANTITY: N/A
MOUNTING: RECESSED
HOUSING: STEEL
REFLECTOR: N/A
LENS: N/A
DRIVER: 120V, DIMMABLE DRIVER

SPECIAL REQUIREMENTS:

ACCEPTABLE PRODUCTS:

MANUFACTURER	PART NUMBER
#1: LITHONIA	2ALL2-40L-EZ1-LP840
#2:	
#3: ACCEPTED SUBSTITUTION	

Products are listed to establish reference standards.
For acceptance of substitutions refer to General Conditions of specification.

WILLIAMS ENGINEERING | LUMINAIRE SCHEDULE | TYPE No. F1

LAMP DESCRIPTION: 1500 LUMEN LED
LAMP TEMPERATURE: 4100K
LAMP QUANTITY: N/A
MOUNTING: RECESSED
HOUSING: STEEL
REFLECTOR: N/A
LENS: N/A
DRIVER: 120V, DIMMABLE DRIVER

SPECIAL REQUIREMENTS:

ACCEPTABLE PRODUCTS:

MANUFACTURER	PART NUMBER
#1: LITHONIA	REALGC D6-MW-ESL-1500L-40K-.65SC-120
#2:	
#3: ACCEPTED SUBSTITUTION	

Products are listed to establish reference standards.
For acceptance of substitutions refer to General Conditions of specification.

WILLIAMS ENGINEERING | LUMINAIRE SCHEDULE | TYPE No. F2

LAMP DESCRIPTION: 4000 LUMEN LED
LAMP TEMPERATURE: 4100K
LAMP QUANTITY: N/A
MOUNTING: SURFACE/PENDANT MOUNT
HOUSING: STEEL
REFLECTOR: N/A
LENS: PRISMATIC LENS
DRIVER: 120V, DIMMABLE DRIVER

SPECIAL REQUIREMENTS:

ACCEPTABLE PRODUCTS:

MANUFACTURER	PART NUMBER
#1: LITHONIA	LBL4 4FT-4000LM-80CRI-40K-MIN1-ZT-MVOLT
#2:	
#3: ACCEPTED SUBSTITUTION	

Products are listed to establish reference standards.
For acceptance of substitutions refer to General Conditions of specification.

WILLIAMS ENGINEERING | LUMINAIRE SCHEDULE | TYPE No. F3

LAMP DESCRIPTION: 32W T8 FLUORESCENT
LAMP TEMPERATURE: 4100K
LAMP QUANTITY: 3
MOUNTING: SURFACE
HOUSING: STEEL
REFLECTOR: N/A
LENS: PRISMATIC LENS
DRIVER: 120V, ELECTRONIC BALLAST

SPECIAL REQUIREMENTS:

ACCEPTABLE PRODUCTS:

MANUFACTURER	PART NUMBER
#1: LITHONIA	LB-3-32-MVOLT-GEB10IS-CSA
#2:	
#3: ACCEPTED SUBSTITUTION	

Products are listed to establish reference standards.
For acceptance of substitutions refer to General Conditions of specification.

WILLIAMS ENGINEERING | LUMINAIRE SCHEDULE | TYPE No. F3A

LAMP DESCRIPTION: 32W, T8 FLUORESCENT
LAMP TEMPERATURE: 4100K
LAMP QUANTITY: 2
MOUNTING: SURFACE
HOUSING: 14 GAUGE STEEL
REFLECTOR: N/A
LENS: AS NOTED BELOW
DRIVER: 120V, ELECTRONIC BALLAST

SPECIAL REQUIREMENTS:
FIXTURE TO BE C/W FLUORESCENT NIGHT LIGHT, PRISMATIC ACRYLIC DIFFUSER,/0.25" CLEAR POLYCARBONATE OUTER LENS, 14 GAUGE STEEL HOUSING

ACCEPTABLE PRODUCTS:

MANUFACTURER	PART NUMBER
#1: COOPER	FMC-X-232-120-80/86-EB81-FNL
#2:	
#3: ACCEPTED SUBSTITUTION	

Products are listed to establish reference standards.
For acceptance of substitutions refer to General Conditions of specification.

WILLIAMS ENGINEERING | LUMINAIRE SCHEDULE | TYPE No. F4

LAMP DESCRIPTION: 2250 LUMEN LED
LAMP TEMPERATURE: 4000K
LAMP QUANTITY: N/A
MOUNTING: SURFACE
HOUSING: STEEL
REFLECTOR: N/A
LENS: PEARLESCENT POLYCARBONATE
DRIVER: 120V, DRIVER

SPECIAL REQUIREMENTS:
COLOR BY ARCHITECT, SHOWER RATED

ACCEPTABLE PRODUCTS:

MANUFACTURER	PART NUMBER
#1: LITHONIA	MR13FL-PP-MB-20L40K-120
#2:	
#3: ACCEPTED SUBSTITUTION	

Products are listed to establish reference standards.
For acceptance of substitutions refer to General Conditions of specification.

WILLIAMS ENGINEERING | LUMINAIRE SCHEDULE | TYPE No. F5

LAMP DESCRIPTION: 5000 LUMEN LED
LAMP TEMPERATURE: 4000K
LAMP QUANTITY: LED
MOUNTING: SURFACE/PENDANT MOUNT
HOUSING: STEEL
REFLECTOR: N/A
LENS: FROSTED LENS
DRIVER: 120V, DIMMABLE DRIVER

SPECIAL REQUIREMENTS:

ACCEPTABLE PRODUCTS:

MANUFACTURER	PART NUMBER
#1: LITHONIA	ZL1N-L48-5000LM-FST-120-40K-80CRI-GALV
#2:	
#3: ACCEPTED SUBSTITUTION	

Products are listed to establish reference standards.
For acceptance of substitutions refer to General Conditions of specification.

WILLIAMS ENGINEERING | LUMINAIRE SCHEDULE | TYPE No. F6

LAMP DESCRIPTION: 462 LUMEN/FT LED
LAMP TEMPERATURE: 4000K
LAMP QUANTITY: 1
MOUNTING: MOUNT IN WHEEL STRUCTURE
HOUSING: STEEL
REFLECTOR: N/A
LENS: N/A
DRIVER: 120V, DIMMABLE DRIVER

SPECIAL REQUIREMENTS:
MOUNT IN WHEEL STRUCTURE AND IN BULKHEADS

ACCEPTABLE PRODUCTS:

MANUFACTURER	PART NUMBER
#1: LUMENTRUSS	0401-9541-0411-0420-48-
#2:	LP.3528240-4200K-IP22-0/10V
#3:	

WILLIAMS ENGINEERING | LUMINAIRE SCHEDULE | TYPE No. F7

LAMP DESCRIPTION: 54W T5HO FLUORESCENT
LAMP TEMPERATURE: 4000K
LAMP QUANTITY: 2
MOUNTING: SURFACE/PENDANT MOUNT
HOUSING: POLYCARBONATE
REFLECTOR: N/A
LENS: GASKETTED
DRIVER: 120V ELECTRONIC, <10% THD

SPECIAL REQUIREMENTS:
WET LOCATION RATED

ACCEPTABLE PRODUCTS:

MANUFACTURER	PART NUMBER
#1: STANPRO	VT4-F2-T5HO-054-W-PSP
#2:	
#3: ACCEPTED SUBSTITUTION	

Products are listed to establish reference standards.
For acceptance of substitutions refer to General Conditions of specification.

WILLIAMS ENGINEERING | LUMINAIRE SCHEDULE | TYPE No. F8

LAMP DESCRIPTION: 32W, T8 FLUORESCENT
LAMP TEMPERATURE: 4000K
LAMP QUANTITY: 2
MOUNTING: SURFACE MOUNT
HOUSING: 12 GA STEEL
REFLECTOR: N/A
LENS: PRISMATIC ACRYLIC
DRIVER: 120V ELECTRONIC BALLAST

SPECIAL REQUIREMENTS:
CONFINEMENT SECURE FIXTURE

ACCEPTABLE PRODUCTS:

MANUFACTURER	PART NUMBER
#1: COOPER	FMS-D-12-232-120-80/84-EB81
#2:	
#3: ACCEPTED SUBSTITUTION	

Products are listed to establish reference standards.
For acceptance of substitutions refer to General Conditions of specification.

WILLIAMS ENGINEERING | LUMINAIRE SCHEDULE | TYPE No. F9

LAMP DESCRIPTION: LED 500 LUMENS/FT
LAMP TEMPERATURE: 4000K
LAMP QUANTITY: N/A
MOUNTING: WALL
HOUSING: ALUMINUM
REFLECTOR: N/A
LENS: FLUSH LENS
DRIVER: 120V DIMMABLE DRIVER

SPECIAL REQUIREMENTS:
CONTINUOUS RUN LENGTHS AND CORNERS AS PER THE DRAWINGS

ACCEPTABLE PRODUCTS:

MANUFACTURER	PART NUMBER
#1: PINNACLE	EX1B-HE-HE-840-840-R-WA-U-OL1-1-W
#2:	
#3: ACCEPTED SUBSTITUTION	

Products are listed to establish reference standards.
For acceptance of substitutions refer to General Conditions of specification.

WILLIAMS ENGINEERING | LUMINAIRE SCHEDULE | TYPE No. F10

LAMP DESCRIPTION: LED 700 LUMENS/FT
LAMP TEMPERATURE: 4000K
LAMP QUANTITY: N/A
MOUNTING: WALL MOUNT ABOVE MIRROR
HOUSING: ALUMINUM
REFLECTOR: N/A
LENS: ACRYLIC
DRIVER: 120V DRIVER

SPECIAL REQUIREMENTS:

ACCEPTABLE PRODUCTS:

MANUFACTURER	PART NUMBER
#1: PINNACLE	EX1-HE-40-CL940HO-4FT-WA-U-OL1-1-O-W
#2:	
#3: ACCEPTED SUBSTITUTION	

Products are listed to establish reference standards.
For acceptance of substitutions refer to General Conditions of specification.

WILLIAMS ENGINEERING | LUMINAIRE SCHEDULE | TYPE No. F11

LAMP DESCRIPTION: LED 700 LUMENS DOWN/FT
400 LUMENS/FT UP
LAMP TEMPERATURE: 4000K
LAMP QUANTITY: N/A
MOUNTING: SUSPENDED AT +2400mm FROM T-BAR
HOUSING: ALUMINUM
REFLECTOR: N/A
LENS: ACRYLIC
DRIVER: 120V DRIVER

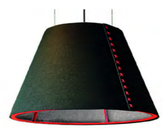
SPECIAL REQUIREMENTS:
16FT LONG RUN

ACCEPTABLE PRODUCTS:

MANUFACTURER	PART NUMBER
#1: PINNACLE	EX1B-HE-HE-840HO-840-R-AC-U-OL1-1-W
#2:	
#3: ACCEPTED SUBSTITUTION	

Products are listed to establish reference standards.
For acceptance of substitutions refer to General Conditions of specification.

WILLIAMS ENGINEERING | LUMINAIRE SCHEDULE | TYPE No. F12



LAMP DESCRIPTION: 35W, 2100 LUMEN LED
LAMP TEMPERATURE: 4000K
LAMP QUANTITY: N/A
MOUNTING: SUSPENDED AT +2400mm FROM T-BAR
HOUSING: ALUMINUM
REFLECTOR: N/A
LENS: ACRYLIC
DRIVER: 120V DRIVER

SPECIAL REQUIREMENTS:

ACCEPTABLE PRODUCTS:

MANUFACTURER	PART NUMBER
#1: TEGAN LIGHTING	TG-KAQP-TPG-AL-RDE-AS-L-
#2:	
#3: ACCEPTED SUBSTITUTION	

Products are listed to establish reference standards.
For acceptance of substitutions refer to General Conditions of specification.

WILLIAMS ENGINEERING | LUMINAIRE SCHEDULE | TYPE No. F13

LAMP DESCRIPTION: 1500 LUMEN LED
LAMP TEMPERATURE: 4100K
LAMP QUANTITY: N/A
MOUNTING: RECESSED
HOUSING: STEEL
REFLECTOR: N/A
LENS: N/A
DRIVER: 120V, DIMMABLE DRIVER

SPECIAL REQUIREMENTS:
C/W SLOPED CEILING ADAPTER

ACCEPTABLE PRODUCTS:

MANUFACTURER	PART NUMBER
#1: GOTHAM	EVO-40-14-6AR-MWD-LSS-MVOLT-EZ1-SCA6
#2:	
#3: ACCEPTED SUBSTITUTION	

Products are listed to establish reference standards.
For acceptance of substitutions refer to General Conditions of specification.

WILLIAMS ENGINEERING | LUMINAIRE SCHEDULE | TYPE No. F14

LAMP DESCRIPTION: 32W T8 FLUORESCENT
LAMP TEMPERATURE: 4100K
LAMP QUANTITY: 2
MOUNTING: WALL MOUNTED
HOUSING: STEEL
REFLECTOR: N/A
LENS: N/A
DRIVER: 120V, ELECTRONIC DRIVER

SPECIAL REQUIREMENTS:

ACCEPTABLE PRODUCTS:

MANUFACTURER	PART NUMBER
#1: LITHONIA	C-232-MVOLT-GEB10IS-CSA
#2:	
#3: ACCEPTED SUBSTITUTION	

Products are listed to establish reference standards.
For acceptance of substitutions refer to General Conditions of specification.

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WILLIAMS ENGINEERING CANADA

Issues/Revisions

No.	Description	Date	By
G	ISSUED FOR TENDER	2017.09.12	BR
F	ISSUED FOR PRE-TENDER REVIEW	2017.09.08	QK
E	ISSUED FOR 95% REVIEW	2017.08.08	QK

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The Association of Prof. Engineers and Geoscientists of Alberta.

PROFESSIONAL ENGINEER ALBERTA
BENJAMIN RAJENDRAN
09/15/2017

Client

WABASCA-DESMARAIS

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

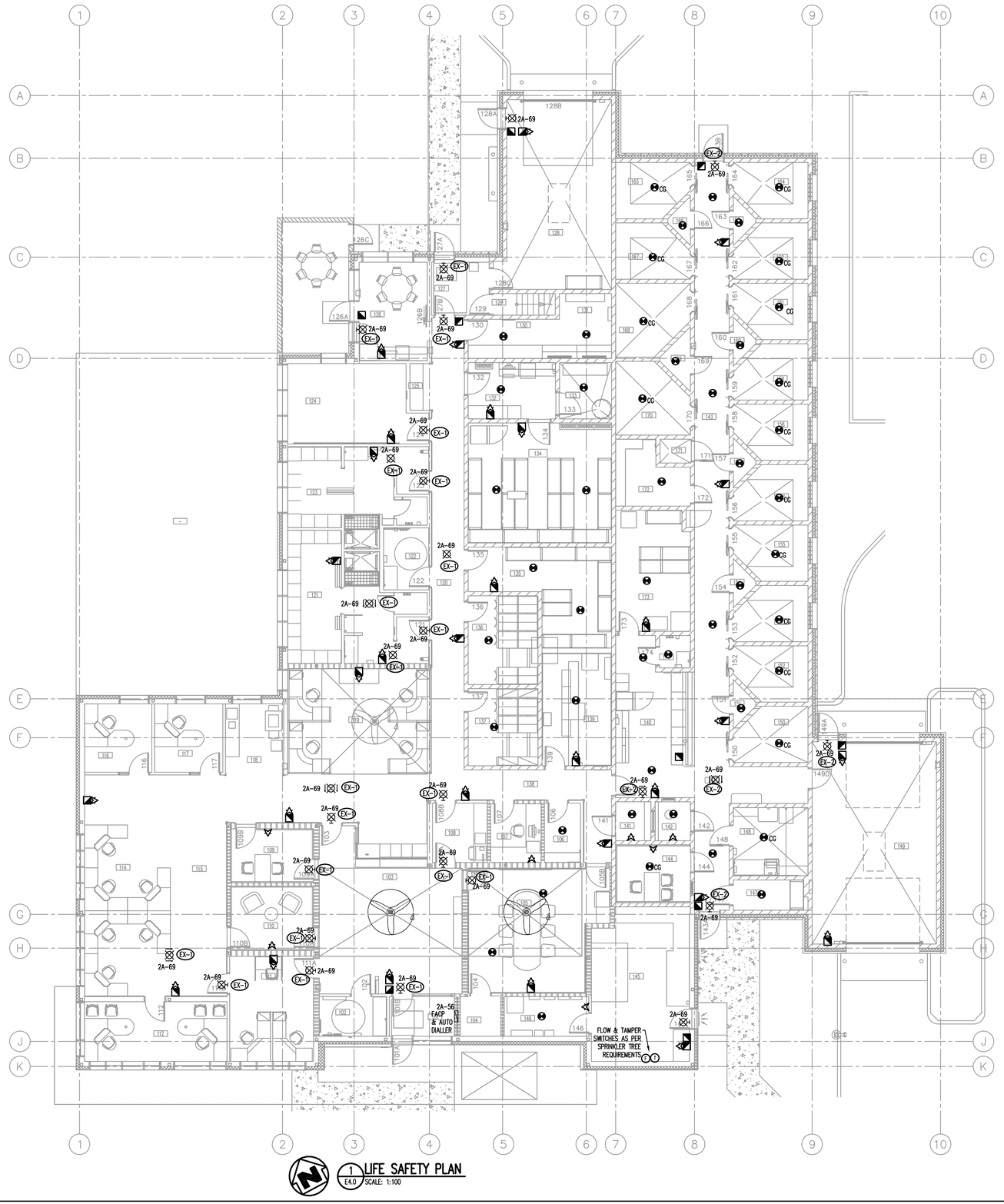
Scale	AS NOTED	Designed By	AWM/QK
Project No.	9031	Drawn By	AWM/QK
Date	2001 JANUARY 00	Checked By	QK

Drawing Title

LUMINAIRE SCHEDULE

Drawing No.

E3.1



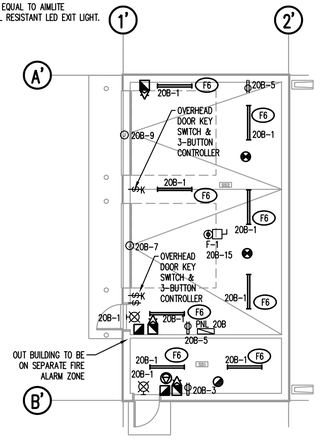
1 LIFE SAFETY PLAN
E4.0 SCALE: 1:100

ELECTRICAL SYMBOL LEGEND

	MANUAL PULLSTATION
	HORN/STROBE COMBO
	STROBE
	HEAT DETECTOR H = HIGH TEMPERATURE L = LOW TEMPERATURE R = RATE OF RISE
	SMOKE DETECTOR CG = SECURE CAGE AROUND DETECTOR
	CEILING MOUNT EXIT SIGN
	WALL MOUNT EXIT SIGN

GENERAL NOTES:

1. SMOKE DETECTOR CAGES IN ROOMS 150, 152, 132, 155, 156, 158, 159, 161, 162, 164, 165, 167, 168, AND 170 TO BE ONE OF THREE TYPES: SIMPLEX GRINNELL GUARD MODEL 2098-9829C, GE SECURITY GUARD MODEL 6255-004 OR NOTIFIER GUARD MODEL SMOKE G1A-2.
2. DUCT DETECTOR TO BE INSTALLED ON SUPPLY SIDE OF ERV-1 SUPPLY FAN DUCT IN STRAIGHT SECTION AS PER CAN/ULC S-524. COORDINATE LOCATION ONSITE.
3. EXIT SIGN TYPE EX-1 TO BE EQUAL TO AIMLITE RPST-U-W-WHT-BAT LED EXIT SIGN.
4. EXIT SIGN TYPE EX-2 TO BE EQUAL TO AIMLITE RPVR-1-W-WHT-BAT VANDAL RESISTANT LED EXIT LIGHT.



2 OUT BUILDING ELECTRICAL PLAN
E4.0 SCALE: 1:100

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PROFESSIONAL ENGINEER ALBERTA BENJAMIN RAJEWSKI
09/12/2017

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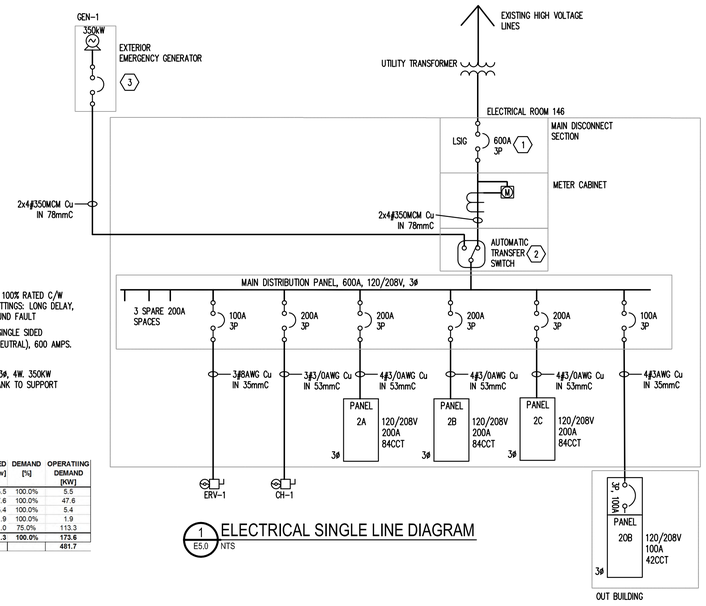
Date	2001 JANUARY 00	Checked By	QK

Drawing Title

MAIN FLOOR
LIFE SAFETY PLAN

Drawing No.

E4.0

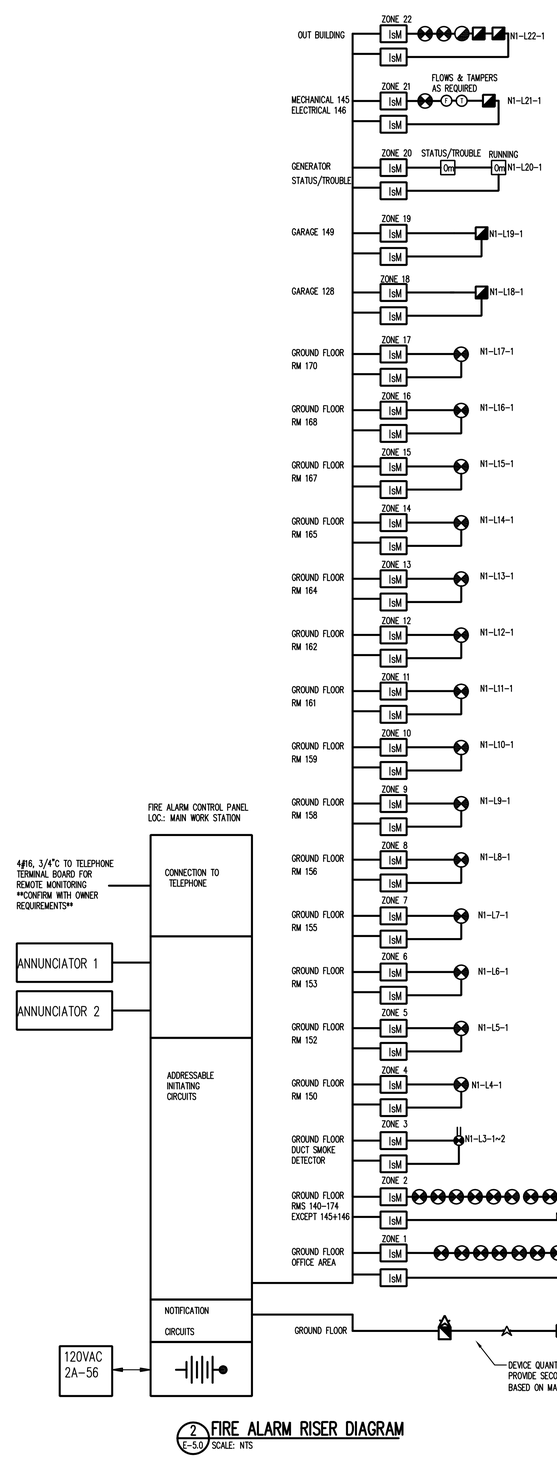


KEYNOTES:

1. ELECTRONIC SOLID STATE BREAKERS, 100% RATED C/W THE FOLLOWING ADJUSTABLE TRIP SETTINGS: LONG DELAY, SHORT DELAY, INSTANTANEOUS, GROUND FAULT
2. AUTOMATIC TRANSFER SWITCH WITH SINGLE SIDED BYPASS, 120/208V, 3#, 4W (SOLID NEUTRAL), 600 AMPS.
3. EMERGENCY GENERATOR, 120/208V, 3#, 4W. 350KW DIESEL GENERATOR SET. 24 HOUR TANK TO SUPPORT ENTIRE LOAD.

Wabasca	AREA [m²]	W/m²	CONNECTED LOAD [Kw]	DEMAND [%]	OPERATIING DEMAND [kW]
SITE LIGHTING			5.5	100.0%	5.5
OFFICE/ADMINISTRASTION	951	50	47.6	100.0%	47.6
RMS 140-174 EXCEPT 145+146	216	25	5.4	100.0%	5.4
OUT STORAGE BUILDING	74	25	1.9	100.0%	1.9
MECHANICAL EQUIPMENT:			151.0	75.0%	113.3
TOTAL DEMAND LOAD			**211.3**	**100.0%**	**173.6**
TOTAL AMPS @ 208V, 3PH, 4W					**481.7**

1 E5.0 ELECTRICAL SINGLE LINE DIAGRAM
NTS



2 E-5.0 FIRE ALARM RISER DIAGRAM
SCALE: NTS

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Project

WABASCA / DESMARAIS
GOVERNMENT BUILDING

Scale	**NTS**	**Designed By**	**BR**
Project No.	9031	**Drawn By**	**BR**
Date	**2017.04.25**	**Checked By**	**MF**

Drawing Title

ELECTRICAL SINGLE LINE DIAGRAM & SCHEDULES

Drawing No.

E5.0

PANEL 2A	CCTS	LINE VOLTAGE	ø	WIRE	MAIN BUS	MAIN BREAKER	ICR	MOUNTING	LOCATION	FEEDER
	84	120/208V	3	4	225A	200A-3P	14KAIC	SURFACE	MECHANICAL ROOM	4ø3/0AWG Cu

NOTES:
*UNSWITCHED NIGHT LIGHTING **BREAKER LOCK ON PAINTED RED ***BREAKER LOCK ON

LOAD [kVA]			DESCRIPTION	POLE	AMP	CCT #	A	B	C	CCT #	AMP	POLE	DESCRIPTION	LOAD [kVA]		
A	B	C												A	B	C
1.2			SITE LIGHTING	1	15	1				2	15	1	RM 173 RECEPTACLES	0.4		
	0.7		SITE LIGHTING	1	15	3				4	15	1	RM 172 RECEPTACLES		0.4	
		0.5	SITE LIGHTING	1	15	5				6	15	1	RM 172 RECEPTACLES			0.4
1.0			SIGNAGE CIRCUIT	1	15	7				8	20	2	L5-20R RECEPTACLE	1.6		
	1.0		GATE POWER	1	15	9				10					1.6	
		1.0	GATE POWER	1	15	11				12	30	2	L5-30R RECEPTACLE			2.0
1.3			PARKING PEDESTAL RECEPTACLE	1	15	13				14				2.0		
	1.3		PARKING PEDESTAL RECEPTACLE	1	15	15				16	20	1	LAN ROOM RECEPTACLE		1.6	
		1.3	PARKING PEDESTAL RECEPTACLE	1	15	17				18	20	1	LAN ROOM RECEPTACLE			1.6
1.3			PARKING PEDESTAL RECEPTACLE	1	15	19				20	20	1	LAN ROOM RECEPTACLE	1.6		
	1.3		PARKING PEDESTAL RECEPTACLE	1	15	21				22	20	1	LAN ROOM RECEPTACLE		1.6	
		1.3	PARKING PEDESTAL RECEPTACLE	1	15	23				24	15	1	LAN ROOM RECEPTACLE			1.0
1.3			PARKING PEDESTAL RECEPTACLE	1	15	25				26	15	1	LAN ROOM RECEPTACLE	1.0		
	1.3		PARKING PEDESTAL RECEPTACLE	1	15	27				28	15	1	LAN ROOM RECEPTACLE		1.0	
		1.3	PARKING PEDESTAL RECEPTACLE	1	15	29				30	15	1	LAN ROOM RECEPTACLE			1.0
1.3			PARKING PEDESTAL RECEPTACLE	1	15	31				32	15	1	LAN ROOM RECEPTACLE	1.0		
	1.3		PARKING PEDESTAL RECEPTACLE	1	15	33				34	15	1	LAN ROOM RECEPTACLE		1.0	
		1.3	PARKING PEDESTAL RECEPTACLE	1	15	35				36	15	1	LAN ROOM RECEPTACLE			1.0
1.3			PARKING PEDESTAL RECEPTACLE	1	15	37				38	15	1	LAN ROOM RECEPTACLE	1.0		
	1.3		PARKING PEDESTAL RECEPTACLE	1	15	39				40	15	1	CELL LIGHTING		0.9	
		1.3	PARKING PEDESTAL RECEPTACLE	1	15	41				42	15	1	LIGHTING			0.9
1.3			PARKING PEDESTAL RECEPTACLE	1	15	43				44	15	1	LIGHTING	1.1		
	1.3		PARKING PEDESTAL RECEPTACLE	1	15	45				46	15	1	LIGHTING		1.2	
		1.3	PARKING PEDESTAL RECEPTACLE	1	15	47				48	15	1	LIGHTING			0.8
1.3			PARKING PEDESTAL RECEPTACLE	1	15	49				50	15	1	LIGHTING	1.0		
	1.3		PARKING PEDESTAL RECEPTACLE	1	15	51				52	15	1	DOOR POWER SUPPLIES		0.4	
		1.3	PARKING PEDESTAL RECEPTACLE	1	15	53				54	15	1	SECURITY ANNUNCIATOR PANEL			0.4
1.3			PARKING PEDESTAL RECEPTACLE	1	15	55				56	15	1	FIRE ALARM PANEL **	1.0		
	1.3		PARKING PEDESTAL RECEPTACLE	1	15	57				58	15	1	LIGHTING		0.5	
		1.3	PARKING PEDESTAL RECEPTACLE	1	15	59				60	15	1	MECHANICAL CONTROL PANEL			0.4
1.3			PARKING PEDESTAL RECEPTACLE	1	15	61				62	15	1				
	1.3		PARKING PEDESTAL RECEPTACLE	1	15	63				64	15	1				
		0.8	RADIO TOWER POWER	1	20	65				66	15	1				
0.5			WALL MOUNT LIGHTING	1	15	67				68	15	1				
	0.8		EXIT SIGNAGE	1	15	69				70	15	1				
		0.8	MICROWAVE	1	15	71				72	15	1				
0.4			MICROWAVE	1	15	73				74	15	1				
	0.8		RM 140 RECEPTACLES	1	15	75				76	15	1				
		0.8	RM 140 RECEPTACLES	1	15	77				78	15	1				
0.8			RM 140 RECEPTACLES	1	15	79				80	15	1				
	0.8		RM 140 RECEPTACLES	1	15	81				82	15	1				
		0.8	RM 140 RECEPTACLES	1	15	83				84	15	1				
14.4	15.8	15.1												11.3	10.2	9.5

PHASE A	25.7	kVA	214.2	A
PHASE B	26.0	kVA	216.7	A
PHASE C	24.6	kVA	205.0	A
TOTAL	76.3	kVA	211.9	A

PANEL 2B	CCTS	LINE VOLTAGE	ø	WIRE	MAIN BUS	MAIN BREAKER	ICR	MOUNTING	LOCATION	FEEDER
	84	120/208V	3	4	225A	200A-3P	14KAIC	SURFACE	MECHANICAL ROOM	4ø3/0AWG Cu

NOTES:
*UNSWITCHED NIGHT LIGHTING **BREAKER LOCK ON PAINTED RED ***BREAKER LOCK ON

LOAD [kVA]			DESCRIPTION	POLE	AMP	CCT #	A	B	C	CCT #	AMP	POLE	DESCRIPTION	LOAD [kVA]		
A	B	C												A	B	C
1.0			OFFICE RECEPTACLES	1	15	1				2	15	1	BOOT CLEANER	0.4		
	1.0		OFFICE RECEPTACLES	1	15	3				4	15	1	SCREEN POWER		1.0	
		1.0	OFFICE RECEPTACLES	1	15	5				6	15	1	CHARGING STATIONS			1.0
1.0			OFFICE RECEPTACLES	1	15	7				8	20	1	RM 133 RECEPTACLES	0.8		
	1.0		OFFICE RECEPTACLES	1	15	9				10	15	1	RM 133 RECEPTACLES		0.8	
		1.0	OFFICE RECEPTACLES	1	15	11				12	15	1	RM 133 RECEPTACLES			0.8
1.0			OFFICE RECEPTACLES	1	15	13				14	15	1	RM 133 RECEPTACLES	0.8		
	1.0		OFFICE RECEPTACLES	1	15	15				16	15	1	RM 134 RECEPTACLES		1.0	
		1.0	OFFICE RECEPTACLES	1	15	17				18	15	1	RM 134 RECEPTACLES			0.8
0.4			CONVENIENCE RECEPTACLES	1	15	19				20	15	1	COUNTER RECEPTACLES	0.8		
	1.0		TV RECEPTACLES	1	15	21				22	15	1	COUNTER RECEPTACLES		0.4	
		1.0	OFFICE RECEPTACLES	1	15	23				24	15	1	RM 108 RECEPTACLES			1.0
1.0			OFFICE RECEPTACLES	1	15	25				26	15	1	RM 108 RECEPTACLES	1.0		
	1.0		COPIER RECEPTACLE	1	20	27				28	15	1	RM 108 RECEPTACLES		0.4	
		1.0	OFFICE RECEPTACLES	1	15	29				30	15	1	RM 107 WORKSTATION			1.0
1.0			OFFICE RECEPTACLES	1	15	31				32	15	1	RM 107 WORKSTATION	1.0		
	1.0		OFFICE RECEPTACLES	1	15	33				34	15	1	GFI RECEPTACLES		0.4	
		1.0	OFFICE RECEPTACLES	1	15	35				36	15	1	HAND DRYER			1.2
1.0			OFFICE RECEPTACLES	1	15	37				38	15	1	AUTO DOOR OPERATOR	0.4		
	0.4		CONVENIENCE RECEPTACLES	1	15	39				40	15	1	MEETING ROOM RECEPTACLES		0.8	
		0.4	GFI RECEPTACLES	1	15	41				42	15	1	MEETING ROOM RECEPTACLES			0.8
0.2			WASHROOM DEVICE POWER	1	15	43				44	15	1	MEETING ROOM RECEPTACLES	0.8		
	1.2		HAND DRYER	1	15	45				46	15	1	MEETING ROOM RECEPTACLES		0.8	
		1.2	HAND DRYER	1	15	47				48	15	1	MEETING ROOM RECEPTACLES			0.8
1.2			HAND DRYER	1	15	49				50	15	1	CONVENIENCE RECEPTACLES	0.6		
	1.2		GYM POWER	1	20	51				52	15	1	SERVICE ROOM RECEPTACLES		0.6	
		1.2	GYM POWER	1	20	53				54	15	1	RM 144 RECEPTACLES			0.8
1.2			GYM POWER	1	20	55				56	15	1	RM 148 RECEPTACLES	0.8		
	1.2		GYM POWER	1	20	57				58	15	1	RM 148 RECEPTACLES		0.8	
		1.2	GYM POWER	1	20	59				60	15	1	RM 141 RECEPTACLE			0.4
1.2			GYM POWER	1	20	61				62	15	1	OVERHEAD DOOR OPERATORS	1.0		
	1.2		GYM POWER	1	20	63				64	15	1	GARAGE RECEPTACLE		0.4	
		1.2	GYM POWER	1	20	65				66	15	1	SECURE CORRIDOR RECEPTACLES			0.6
1.2			GYM POWER	1	15	67				68	15	1	RECEPTACLES	0.6		
	1.0		FRIDGE	1	15	69				70	15	1	MOTORIZED BLINDS		1.0	
		1.0	MICROWAVE	1	15	71				72	15	1	HAND DRYER			1.0
1.0			COUNTER RECEPTACLE	1	20	73				74	15	1	WATER FOUNTAIN	1.0		
	1.0		DISHWASHER	1	15	75				76						
		1.0	COUNTER RECEPTACLE	1	20	77				78						
1.0			TV POWER	1	15	79				80						
	0.4		OVERHEAD DOOR OPERATOR	1	15	81				82						
		0.4	GARAGE RECEPTACLES			83				84						
12.4	13.6	13.6												9.6	8.4	10.2

PHASE A	22.0	kVA	183.3	A
PHASE B	22.0	kVA	183.3	A
PHASE C	23.8	kVA	198.3	A
TOTAL	67.8	kVA	188.3	A

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BENJAMIN RAJENDRAN
09/15/2017

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WABASCA / DESMARAIS
GOVERNMENT BUILDING

Scale	NTS	Designed By	BR
Project No.	9031	Drawn By	BR
Date	2017.04.25	Checked By	MF

Drawing Title
ELECTRICAL
PANEL SCHEDULES

Drawing No.
E6.0

PANEL 2C	CCTS	LINE VOLTAGE	ø	WIRE	MAIN BUS	MAIN BREAKER	ICR	MOUNTING	LOCATION	FEEDER
	84	120/208V	3	4	225A	200A–3P	14KAIC	SURFACE	MECHANICAL ROOM	4ϕ3/0AWG Cu

NOTES:
*UNSWITCHED NIGHT LIGHTING **BREAKER LOCK ON PAINTED RED ***BREAKER LOCK ON

LOAD [kVA]			DESCRIPTION	POLE	AMP	CCT #	A	B	C	CCT #	AMP	POLE	DESCRIPTION	LOAD [kVA]		
A	B	C												A	B	C
0.4			B–1	1	15	1				2	25	1	FC–13	1.2		
	0.4		B–2	1	15	3				4	25	1	FC–14		1.2	
		0.4	HU–1	1	15	5				6	25	1	FC–15			1.2
0.4			P–3	2	20	7				8	15	1	TF–1	0.3		
	0.4					9				10	15	1	TF–2		0.3	
			P–4	2	20	11				12	20	1	SPARE			1.4
0.4						13				14	15	1	EF–1	0.8		
	0.4		P–5	3	25	15				16	15	1	EF–2		1.0	
		0.2				17				18	15	1	EF–3			0.8
0.4						19				20	15	1	EF–4	0.8		
	0.4		P–6	3	25	21				22	15	1	F–1		0.4	
		0.2				23				24	15	1	F–2			1.0
0.4						25				26	20	2	RWL HEAT TRACE	1.2		
	0.4		P–7	1	15	27				28					1.2	
		0.8	DWH–2	1	15	29				30						1.2
0.4			EF–5	1	15	31				32	25	3	CU–1	1.5		
	0.4		EF–6	1	15	33				34					1.5	
		0.4	OI–1	1	15	35				36						1.5
0.4			SP–1	1	15	37				38	15	1	BMS CONTROLLER	0.4		
	0.3		UH–1, FF–2	1	15	39				40	15	1	BMS CONTROLLER		0.4	
		0.3	UH–2, FF–1	1	15	41				42	15	1	BMS CONTROLLER			0.4
0.4			DWH–1	1	15	43				44	15	1	ROOF RECEPTACLE	0.8		
	0.3		TK–3	1	15	45				46	15	1	ROOF RECEPTACLE		0.8	
		0.4	CF–1	1	15	47				48	15	1	ROOF RECEPTACLE			0.8
0.4			CF–2	1	15	49				50	15	2	RWL HEAT TRACE			
	0.4		CF–3	1	15	51				52						
		0.3				53				54	15	2	RWL HEAT TRACE			
0.4						55				56						
	0.3					57				58	15	2	ERV HEAT TRACE			
		0.3	TP–1	1	15	59				60						
1.2			FC–1	1	25	61				62	15	1				
	1.2		FC–2	1	25	63				64	15	1				
		1.2	FC–3	1	25	65				66	15	1				
1.2			FC–4	1	25	67				68	15	1				
	1.2		FC–5	1	25	69				70	15	1				
		1.2	FC–6	1	25	71				72						
1.2			FC–7	1	25	73				74						
	1.2		FC–8	1	25	75				76						
		1.2	FC–9	1	25	77				78						
1.2			FC–10	1	25	79				80						
	1.2		FC–11	1	25	81				82						
		1.2	FC–12	1	25	83				84						
8.4	8.5	8.1												5.8	6.8	8.3

PHASE A	14.2	kVA	118.3	A
PHASE B	15.3	kVA	127.5	A
PHASE C	16.4	kVA	136.7	A
TOTAL	45.9	kVA	127.5	A

PANEL 20B	CCTS	LINE VOLTAGE	ø	WIRE	MAIN BUS	MAIN BREAKER	ICR	MOUNTING	LOCATION	FEEDER
	42	120/208V	3	4	225A	100A–3P	10KAIC	SURFACE	OUTBUILDING	4ϕ3AWG Cu

NOTES:
*UNSWITCHED NIGHT LIGHTING **BREAKER LOCK ON PAINTED RED ***BREAKER LOCK ON

LOAD [kVA]			DESCRIPTION	POLE	AMP	CCT #	A	B	C	CCT #	AMP	POLE	DESCRIPTION	LOAD [kVA]		
A	B	C												A	B	C
0.8			LIGHTING	1	15	1				2				0	0	0
	0.7		DUPLEX RECEPTACLE	1	15	3				4						
		0.5	DUPLEX RECEPTACLE	1	15	5				6						
1.0			OVERHEAD DOOR OPERATOR POWER	1	15	7				8						
	1.0		OVERHEAD DOOR OPERATOR POWER	1	15	9				10						
		0.3	EXTERIOR LIGHTING	1	15	11				12						
				1	15	13				14						
	1.0		F–3	1	15	15				16						
						17				18						
						19				20						
						21				22						
						23				24						
						25				26						
						27				28						
						29				30						
						31				32						
						33				34						
						35				36						
						37				38						
						39				40						
						41				42						
1.0	2.7	0.8												0.0	0.0	0.0

PHASE A	1.0	kVA	8.3	A
PHASE B	2.7	kVA	22.5	A
PHASE C	0.8	kVA	6.7	A
TOTAL	4.5	kVA	12.5	A

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WILLIAMS ENGINEERING CANADA

Issues/Revisions

No.	Description	Date	By
G	ISSUED FOR TENDER	2017.09.12	BR
F	ISSUED FOR PRE–TENDER REVIEW	2017.09.08	QK
E	ISSUED FOR 95% REVIEW	2017.08.08	QK

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PERMIT NUMBER
P 10527
The Association of Prof. Engineers and Geoscientists of Alberta.

PROFESSIONAL ENGINEER ALBERTA
BENJAMIN RAJEWSKI
09/12/2017

Client
WABASCA-DESMARAIS

Project
WABASCA / DESMARAIS
GOVERNMENT BUILDING

Scale	NTS	Designed By	BR
Project No.	9031	Drawn By	BR
Date	2017.04.25	Checked By	MF

Drawing Title
ELECTRICAL
PANEL SCHEDULES

Drawing No.
E6.1

MECHANICAL EQUIPMENT SCHEDULE

EQUIP. TAG	DESCRIPTION	LOCATION	KW (HP)/ FLA	VOLT/PH.	CONDUIT/ WIRE	BREAKER	CCT#	STARTER	REMARKS
								TYPE	
B-1	BOILER	RM 145	FRAC. HP	120V/1ø	21mmC-2#12	15A-1P	2C-1	PACK. UNIT	
B-2	BOILER	RM 145	FRAC. HP	120V/1ø	21mmC-2#12	15A-1P	2C-3	PACK. UNIT	
CH-1/DF C-1	CHILLER	ROOF	167MCA	208V/3ø	53mmC-3#3/0	200A-3P	MDP	PACK. UNIT	
P-1	CIRCULATOR PUMP	RM 145	93W	120V/1ø	21mmC-2#12	15A-1P	2C-1	MAN.	POWERED FROM B-1. ELECTRICIAN TO WIRE.
P-2	CIRCULATOR PUMP	RM 145	93W	120V/1ø	21mmC-2#12	15A-1P	2C-3	MAN.	POWERED FROM B-2. ELECTRICIAN TO WIRE.
P-3	CIRCULATOR PUMP	RM 145	1 HP	208V/1ø	21mmC-2#12	20A-2P	2C-7,9	VFD	
P-4	CIRCULATOR PUMP	RM 145	1 HP	208V/1ø	21mmC-2#12	20A-2P	2C-11,13	VFD	
P-5	VERTICAL INLINE PUMP	RM 145	3 HP	208V/3ø	21mmC-3#10	25A-3P	2C-15,17,19	VFD	
P-6	VERTICAL INLINE PUMP	RM 145	3 HP	208V/3ø	21mmC-3#10	25A-3P	2C-21,23,25	VFD	
P-7	CIRCULATOR PUMP	RM 145	FRAC. HP	120V/1ø	21mmC-2#12	15A-1P	2C-27	MAN.	
SP-1	SUMP PUMP	RM 128/ RM 149	1/6HP	120V/1ø	21mmC-2#12	15A-1P	2C-37	MAN.	
UH-1	UNIT HEATER	RM 128	1/6HP	120V/1ø	21mmC-2#12	15A-1P	2C-39	MAN.	
UH-2	UNIT HEATER	RM 149	1/6HP	120V/1ø	21mmC-2#12	15A-1P	2C-41	MAN.	
UH-3	UNIT HEATER	RM 149	1/6HP	120V/1ø	21mmC-2#12	15A-1P	2C-41	MAN.	
FF-1	FORCE FLOW	RM 101	1/6HP	120V/1ø	21mmC-2#12	15A-1P	2C-41	MAN.	
FF-2	FORCE FLOW	RM 127	1/6HP	120V/1ø	21mmC-2#12	15A-1P	2C-39	MAN.	
DWH-1	DOMESTIC WATER HEATER	RM 145	6.6FLA	120V/1ø	21mmC-2#12	15A-1P	2C-43	-	
DWH-2	DOMESTIC WATER HEATER	RM 145	6.6FLA	120V/1ø	21mmC-2#12	15A-1P	2C-29	-	
TK-3	FILL TANK	RM 145	1A	120V/1ø	21mmC-2#12	15A-1P	2C-45	-	
TP-1	TRAP PRIMER	TBD	FRAC. HP	120V/1ø	21mmC-2#12	15A-1P	2C-59	-	
TP-2	TRAP PRIMER	TBD	FRAC. HP	120V/1ø	21mmC-2#12	15A-1P	2C-59	-	
TP-3	TRAP PRIMER	TBD	FRAC. HP	120V/1ø	21mmC-2#12	15A-1P	2C-59	-	
ERV-1	SUPPLY FAN	ROOF	40MCA	208V/3ø	35mmC-3#8	100A-3P	MDP	PACK. UNIT	
	LIGHTS	ROOF	375W	120V/1ø	21mmC-2#12	15A-1P	2C-53	PACK. UNIT	
FC-101	FAN COIL	RM 102	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-61	ECM MOTOR, DIRECT DRIVE	
FC-102	FAN COIL	RM 104	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-63	ECM MOTOR, DIRECT DRIVE	
FC-103	FAN COIL	RM 138	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-65	ECM MOTOR, DIRECT DRIVE	
FC-104	FAN COIL	RM 115	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-67	ECM MOTOR, DIRECT DRIVE	
FC-105	FAN COIL	RM 114	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-69	ECM MOTOR, DIRECT DRIVE	
FC-106	FAN COIL	RM 114	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-71	ECM MOTOR, DIRECT DRIVE	
FC-107	FAN COIL	RM 114	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-73	ECM MOTOR, DIRECT DRIVE	
FC-108	FAN COIL	RM 118	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-75	ECM MOTOR, DIRECT DRIVE	
FC-109	FAN COIL	RM 124	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-77	ECM MOTOR, DIRECT DRIVE	
FC-110	FAN COIL	RM 126	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-79	ECM MOTOR, DIRECT DRIVE	
FC-111	FAN COIL	RM 131	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-81	ECM MOTOR, DIRECT DRIVE	
FC-112	FAN COIL	RM 131	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-83	ECM MOTOR, DIRECT DRIVE	
FC-113	FAN COIL	RM 135	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-2	ECM MOTOR, DIRECT DRIVE	
FC-114	FAN COIL	RM 135	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-4	ECM MOTOR, DIRECT DRIVE	
FC-115	FAN COIL	RM 135	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-6	ECM MOTOR, DIRECT DRIVE	
EF-1	WASHROOM EXHAUST FAN	RM 120	1/6 HP	120V/1ø	21mmC-2#12	15A-1P	2C-14	MAN.	
EF-2	EXHAUST FAN	RM 172	1/6 HP	120V/1ø	21mmC-2#12	15A-1P	2C-16	MAN.	
EF-3	SECURE AREA EXHAUST FAN	RM 172	1/6 HP	120V/1ø	21mmC-2#12	15A-1P	2C-18	MAN.	
EF-4	GARAGE EXHAUST FAN	RM 128	1/6 HP	120V/1ø	21mmC-2#12	15A-1P	2C-20	MAN.	
EF-5	EXHAUST FAN	RM 149	1/6 HP	120V/1ø	21mmC-2#12	15A-1P	2C-31	MAN.	
EF-6	EXHAUST FAN	RM 133	1/6 HP	120V/1ø	21mmC-2#12	15A-1P	2C-33	MAN.	INTERLOCKED WITH LIGHTS VIA EMCS
TF-1	TRANSFER AIR FAN	RM 137	1/6 HP	120V/1ø	21mmC-2#12	15A-1P	2C-8	MAN.	
TF-2	TRANSFER AIR FAN	RM 136	1/6 HP	120V/1ø	21mmC-2#12	15A-1P	2C-10	MAN.	
F-1	RELIEF AIR FAN	RM 139	1/6HP	120V/1ø	21mmC-2#12	15A-1P	2C-22	MAN.	
F-2	RELIEF AIR FAN	RM 138	1/6HP	120V/1ø	21mmC-2#12	15A-1P	2C-24	MAN.	
F-3	RELIEF AIR FAN	OUTBUILDING	FRAC. HP	120V/1ø	21mmC-2#12	15A-1P	20B-15	MAN.	
ACU-1	AIR CONDITIONING UNIT	ROOM 139	2.8 FLA	208V/3ø	21mmC-3#12	15A-3P	2C-32,34,36	PACK. UNIT	POWERED FROM CU-1
CU-1	CONDENSING UNIT	ON ROOF	12.8 FLA	208V/3ø	35mmC-3#10	25A-3P	2C-32,34,36	PACK. UNIT	

EQUIP. TAG	DESCRIPTION	LOCATION	KW (HP)/ FLA	VOLT/PH.	CONDUIT/ WIRE	BREAKER	CCT#	STARTER	REMARKS
								TYPE	
HU-1	HUMIDIFIER	ROOM 145	3 FLA	120V/1ø	21mmC-2#12	15A-1P	2C-5	PACK. UNIT	
OI-1	OIL INTERCEPTOR	RM 128/RM 149	5 FLA	120V/1ø	21mmC-2#12	15A-1P	2C-35	PACK. UNIT	
CF-1	CEILING FAN	RM 103	1/4 HP	120V/1ø	21mmC-2#12	15A-1P	2C-47	MAN.	LOCAL WALL MOUNTED SWITCH
CF-2	CEILING FAN	RM 105	1/4 HP	120V/1ø	21mmC-2#12	15A-1P	2C-49	MAN.	LOCAL WALL MOUNTED SWITCH
CF-3	CEILING FAN	RM 119	1/4 HP	120V/1ø	21mmC-2#12	15A-1P	2C-51	MAN.	LOCAL WALL MOUNTED SWITCH

LOW VOLTAGE RELAY PANEL A

ROOM#	CCT#	RELAY #	LOCAL SWITCH	OCCUPANCY SENSOR	TIME CLOCK CONTROL	REMARKS
101	2A-42	1	-	-	YES	TIMECLOCK CONTROL, DIM TO 65% FROM 9PM TO 6AM
102	2A-42	2	-	OS1	NO	TIMECLOCK CONTROL, DIM TO 65% FROM 9PM TO 6AM. PDT OCCUPANCY OVERRIDE DURING OFF HOURS.
103	2A-42	3		OS2	YES	PDT OCCUPANCY SENSOR CONTROL WITH TIMECLOCK CONTROL
104	2A-42	4	-	OS3	NO	PIR OCCUPANCY SENSOR CONTROL
105	2A-42	5	S1,S2,S3,S4	OS4	NO	DIMMABLE 3-WAY SWITCHES WITH PDT OCCUPANCY CONTROL OVERRIDE
		6	S14	OS4	NO	DIMMABLE SWITCH WITH PDT OCCUPANCY CONTROL OVERRIDE
106	2A-44	7	-	OS5	NO	PIR OCCUPANCY SENSOR CONTROL
107	2A-44	8	VS1	-	NO	VACANCY SENSOR SWITCH
108	2A-44	9	-	OS6	NO	PDT OCCUPANCY SENSOR CONTROL
109	2A-44	10	VS2, VS3	-	NO	VACANCY SENSOR 3-WAY SWITCHES
110	2A-44	11	VS4, VS5	-	NO	VACANCY SENSOR 3-WAY SWITCHES
111	2A-44	12	VS6, VS7	-	NO	VACANCY SENSOR 3-WAY SWITCHES
112	2A-44	13	VS8	-	NO	VACANCY SENSOR SWITCH
114/115	2A-44	14	MS1	OS17, OS27, OS36	YES	TIMECLOCK CONTROL, DIM TO 65% FROM 9PM TO 6AM. PDT OCCUPANCY OVERRIDE DURING OFF HOURS.
116	2A-44	15	VS9	-	NO	VACANCY SENSOR SWITCH
117	2A-44	16	VS10	-	NO	VACANCY SENSOR SWITCH
118, 119	2A-44	17	MS1	OS37, OS38	YES	TIMECLOCK CONTROL, DIM TO 65% FROM 9PM TO 6AM. PDT OCCUPANCY OVERRIDE DURING OFF HOURS.
120/125/138	2A-46	18	MS1	OS39, OS40, OS41, OS42, OS43	YES	TIMECLOCK CONTROL, DIM TO 65% FROM 9PM TO 6AM. PDT OCCUPANCY OVERRIDE DURING OFF HOURS.
121	2A-46	19	-	OS7-OS10	NO	PDT OCCUPANCY SENSOR CONTROL
122	2A-46	20	-	OS11	NO	PDT OCCUPANCY SENSOR CONTROL
123	2A-46	21	-	OS12-OS14	NO	PDT OCCUPANCY SENSOR CONTROL
124	2A-46	22	-	OS15	NO	PIR OCCUPANCY SENSOR CONTROL
126	2A-46	23	-	OS16	NO	PDT OCCUPANCY SENSOR CONTROL
127	2A-46	24	-	-	YES	TIMECLOCK CONTROL, DIM TO 65% FROM 9PM TO 6AM
128	2A-46	25	S5, S6	-	NO	THREE WAY SWITCH CONTROL
129	2A-48	26	S13	-	NO	MANUAL SWITCH
130/131	2A-48	27	-	OS18	NO	PIR OCCUPANCY CONTROL
132	2A-48	28	-	OS19	NO	PDT OCCUPANCY CONTROL

LOW VOLTAGE RELAY PANEL A

ROOM#	CCT#	RELAY #	LOCAL SWITCH	OCCUPANCY SENSOR	TIME CLOCK CONTROL	REMARKS
133	2A-48	29	S11	-	NO	MANUAL SWITCH
134	2A-48	30	-	OS21/OS21A	NO	PIR OCCUPANCY CONTROL
135	2A-48	31	-	OS22, OS23	NO	PIR OCCUPANCY CONTROL
136	2A-48	32	-	OS24	NO	PIR OCCUPANCY CONTROL
137	2A-48	33	-	OS25	NO	PIR OCCUPANCY CONTROL
139	2A-48	34	S7	-	NO	MANUAL SWITCH CONTROL
140/143	2A-50	35	S8, S13	OS44, OS45, OS46, OS47, OS48, OS49, OS50, OS51	YES	TIMECLOCK CONTROL, DIM TO 65% FROM 9PM TO 6AM WITH 3-WAY MANUAL SWITCHES OVERRIDE AND AFTER HOURS OCCUPANCY CONTROL
141	2A-50	36	-	OS26	NO	PDT OCCUPANCY SENSOR CONTROL
142	2A-50	37	S9	-	NO	MANUAL SWITCH OUTSIDE ROOM
144	2A-50	38	S10	-	NO	MANUAL SWITCH OUTSIDE ROOM
147	2A-50	39	-	OS28	NO	PIR OCCUPANCY CONTROL
148	2A-50	40	S12	-	NO	MANUAL SWITCH
149	2A-50	41	-	OS30, OS31	NO	PIR OCCUPANCY CONTROL
171	2A-50	42	S15	-	NO	SHOWER MANUAL SWITCH
172	2A-50	43	-	OS32	NO	PIR OCCUPANCY CONTROL
173	2A-50	44	-	OS33, OS34	NO	PIR OCCUPANCY CONTROL
174	2A-50	45	-	OS35	NO	PDT OCCUPANCY CONTROL

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BENJAMIN RAJENSON
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WABASCA-DESMARAIS

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

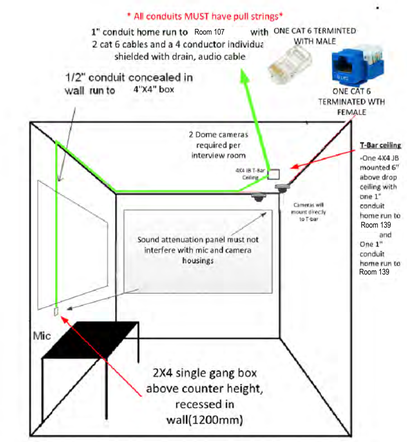
Scale	NTS	Designed By	BR
Project No.	9031	Drawn By	BR
Date	2017.04.25	Checked By	MF

Drawing Title

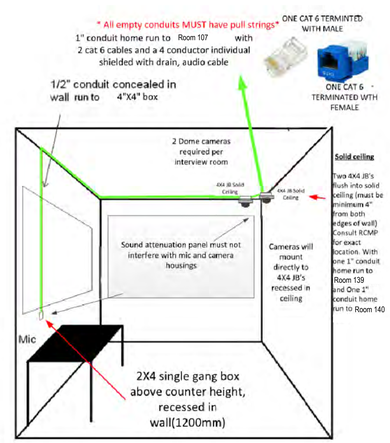
MECH. EQUIPMENT & LIGHTING CONTROL SCHEDULES

Drawing No.

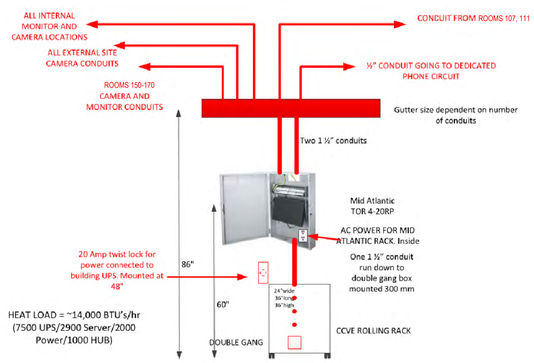
E6.2



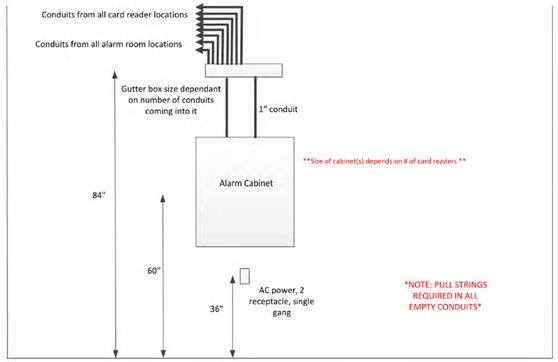
1 E7.0 ROOMS #111 & 112 T-BAR CEILING DETAIL
SCALE: NTS



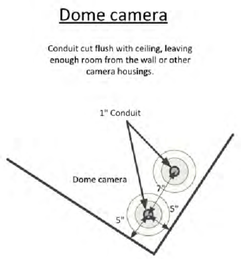
2 E7.0 ROOM #119 SOLID CEILING DETAIL
SCALE: NTS



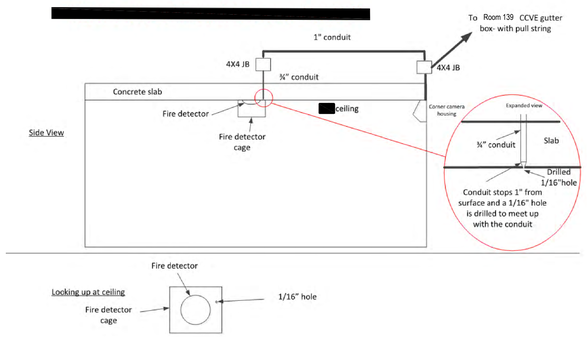
3 E7.0 ROOM 139 CCVE TYPICAL FIT UP DETAIL
SCALE: NTS



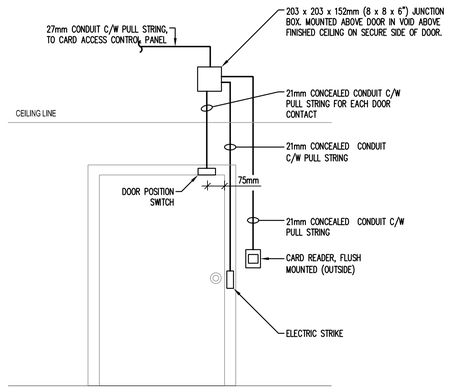
4 E7.0 ROOM 139 ALARM PANEL TYPICAL FIT UP DETAIL
SCALE: NTS



5 E7.0 ROOMS 150-170 CAMERA CONDUIT DETAIL
SCALE: NTS



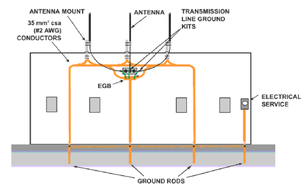
6 E7.0 ROOMS 150-170 SMOKE DETECTOR TYPICAL DETAILS
SCALE: NTS



7 E7.0 DOOR ACCESS DETAIL
SCALE: NTS

NOTES:

1. CARD READER JUNCTION BOX SHALL BE INSTALLED ON THE SECURE SIDE OF THE DOOR AND LOCATED WITHIN 3.048m (10') FROM THE CARD READER.
2. ALL CARD ACCESS COMPONENTS/DEVICES WILL BE SUPPLIED, INSTALLED AND PROGRAMMED BY OTHERS. ELECTRICAL CONTRACTOR TO PROVIDE CONDUITS, PULL STRINGS, JUNCTION BOXES ROUGH-IN ONLY.



7 E7.0 MULTIPLE SIDE-MOUNTED ANTENNAS GROUNDING DETAILS
SCALE: NTS

STEPHENS KOZAK ACI
ARCHITECTS AND PLANNERS

Notes:

- Do not scale drawing
- It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect or Engineer
- It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.
- All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the Architect or Engineer.
- All dimensions are in mm unless noted otherwise.

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Issues/Revisions

No.	Description	Date	By
G	ISSUED FOR TENDER	2017.09.12	BR
F	ISSUED FOR PRE-TENDER REVIEW	2017.09.08	QK
E	ISSUED FOR 95% REVIEW	2017.08.08	QK

Seal

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WILLIAMS ENGINEERING CANADA INC.
PERMIT NUMBER
P 10527
The Association of Prof. Engineers and Geoscientists of Alberta.

PROFESSIONAL ENGINEER ALBERTA BENJAMIN RAJEWSKI
09/12/2017

Client

WABASCA-DESMARAIS

Project

WABASCA / DESMARAIS GOVERNMENT BUILDING

Scale	NTS	Designed By	BR
Project No.	9031	Drawn By	BR
Date	2017.04.25	Checked By	MF

Drawing Title

ELECTRICAL DETAILS

Drawing No.

E7.0