The following changes to the tender documents are effective immediately and will form part of the contract documents:

This Addendum forms part of the Contract Documents and amends the original Drawings and Specifications dated 2015-09-04, previous Addenda if applicable and as noted below. This Addendum consists of 9 pages and Drawings as listed below.
Ensure that all parties are aware of all items included in this Addendum.

The following revised or additional Drawings accompany and form an integral part of this Addendum:

Dwg. No.	Title	Date of Issue
AR2.1	FLOORING CLARIFICATIONS	2016-01-15
AR2.2	EXTERIOR SIDING CLARIFICATIONS	2016-01-15
M1.1R1	EQUIPMENT SCHEDULE	2016-01
M1.2R1	EQUIPMENT SCHEDULE	2016-01

A-3-1 REF. SECTION 01 14 00 WORK RESTRICTIONS

1.5.1 Revise to read: "Personnel must be escorted in all areas. Owner to provide escorts (commissionaires) for this work and will cover the cost. Coordinate with owner."

1.5.2 Delete this line in its entirety.

A-3-2 REF. SECTION 01 51 00 TEMPORARY UTILITIES

1.5.1 Revise to read: "Provide and maintain temporary lighting throughout the project. Existing lighting and power systems may be utilized. Owner will cover the power utility bill. Contractor to protect existing services and repair any damaged items."

A-3-3 REF. SECTION 07 46 46 MINERAL-FIBRE CEMENT SIDING

2.2.1.3 Revise to read: "Length: 2426mm or 3025mm – refer to attached AR2.2 for sizes."

A-3-4 REF. SECTION 07 50 10 CONCRETE FACED INSULATED PANELS

2.2.4 Add the following: "Based on Concrete Faced Insulated Panels by Tech-Crete Processors Ltd."

A-3-5 REF. SECTION 08 71 00 DOOR HARDWARE

2.2.12.11 Under Acceptable Manufacturers add:
"ASSA ABLOY" to the list.

2.2.13 Add the following: "Exit devices: to CAN/CGSB-69.19, grade 1, type and function as noted, finished to 626.

.1 Deadbolt-style latch, with positive deadlocking by auxiliary bolt. Acceptable manufacturer: Corbin Russwin ED5200S."

2.2.14 Add the following: "Blank door filler plate – primed
.1 DJO-BF-161-PC DON-JO 67MM"

3.7 Schedule:
Revise hardware to read:
Door 027
1 Exit device
1 latch guard
1 blank door filler plate – remove existing lockset

A-3-6 REF. SECTION 08 80 50 GLAZING

2.2.4.5.2 Revise to read: "Low-E Glass coating: PPG "Solar Ban 60" soft coat low 'e' or Cardinal LoE270."

A-3-7 REF. SECTION 08 90 10 DOOR, FRAME AND HARDWARE SCHEDULE

Revise door 027 to read:
"Frame: Existing metal frame. Door: Existing metal door."

A-3-8 REF. SECTION 09 30 13 CERAMIC TILING

2.4.1.1 Add the following: "Square profile similar to 'Quadec' by Schluter systems."

A-3-9 REF. SECTION 09 54 26 LINEAR WOOD CEILINGS

2.1.1.9 Add the following: "To CAN/ULC S102 – flame spread rating of less than 25.

2.1.1.13 Add the following: "Acceptable manufacturers: Armstrong, Rulon, Architectural Components Group."

A-3-10 REF. SECTION 09 84 00 ACOUSTIC TREATMENT

2.2.8 Add the following: "Acceptable manufacturers: Armstrong, Wallworks, Fabri-Lok."

A-3-11 REF. SECTION 10 14 20 INTERIOR SIGNAGE

2.3.4 Add the following: "One door sign for each interior door."

2.4.3 Add the following: “Six Door Instruction Sign locations.”

2.4.1 Revise to read: “Each sign to be engraved with international symbol of man, woman or unisex (man & woman).

2.4.4 Add the following: “One Washroom sign for each washroom door, minimum nine.”

2.5.3 Revise to read: “Three accessible washroom signs.”

A-3-12 REF. SPECIFICATION SECTION 22 11 16

.1 2.1 Piping:
.1.1 Revise “Type K” copper tube to “Type L”.

A-3-13 REF. SPECIFICATION SECTION 22 42 16

.1 Sink SK-1 (Single Compartment):

.5 Remove the following: “Tailpiece – Delta 33T290-1”

A-3-14 REF.SPECIFICATION 230500 GENERAL MECHANICAL REQUIREMENTS

Item:	Specified:	Equal:
AHU	Haakon	Price, Engineered Air
Air Cooled Condensing Unit	AAON	York, Engineered Air
Linear/Modular Radiant Panels	TWA	Price, Airtex

A-3-15 REF. SECTION 26 50 00 LIGHTING APPROVALS

.1 Specified fixture Type AA approved equal:
PACO ‘PROW-24-2-28T5-347-EP’.
Visioneering Corp TDXI2X42L-T528P347

.2 Specified fixture Type AA2 approved equal:
PACO ‘PROW-24-2-28T5-347-SP’. (dimming ballast)
Visioneering Corp TDXI2X42L-T528P347-B04

.3 Specified fixture Type BB approved equal:
PACO ‘PROW-14-2-28T5-347-EP’.
Visioneering Corp TDXI1X42L-T528P347

.4 Specified fixture Type CC approved equal:
Visioneering Corp FIND246-T528P347-VF1W5
Acuity Brands Z 2 28T5 347 OS95 BDP CSA – Z5SMR46 WGZ5SMR46

.5 Specified fixture Type DD approved equal:
COLUMBIA 'W4-228-EP347'.
Visioneering Corp CAD248-T528P347

.6 Specified fixture Type EE approved equal:
Visioneering Corp FIND246-T528P347-C13VF1W5
Acuity Brands Z 2 28T5 347 OS95 BDP CSA – Z5SMR46 WGZ5SMR46

.7 Specified fixture Type FF approved equal: PACO 'PROW-14-2-28T5-347-EP-SMK'. Visioneering Corp TDXI1X42L-T528P347-SURF

.8 Specified fixture Type GG approved equal:
Visioneering Corp MNE248-T528P347
Acuity Brands SB 2 28T5 347 OS95 CSA

.9 Specified fixture Type HH approved equal:
COLUMBIA 'VL4-228-EP347'.
Visioneering Corp VRSE4835562L-T5PUNV

.10 Specified fixture Type C approved equal:
INDY L6-17351-G3-L600P-CL-WH-HB-TL

.11 Specified fixture Type D approved equal:
INDY L4-08351-G3-L400P-CL-WH-HB-TL

.12 Specified fixture Type F approved equal:
INDY L6-17351-G3-L600P-CL-WH-HB-TL

.13 Specified fixture Type G approved equal:
Acuity Brands DSXW2 LED 30C 530 40K T3M 120 - PE DMG DDBXD

.14 Specified fixture Type H approved equal:
INDY L6-17351-G3-L600P-CL-WET-HB-TL

.15 Specified fixture Type K approved equal:
AimLite Corp EXAL1WWHTNDC-OPXXX (special wording)

Suppliers of approved products are responsible to ensure that the following approved equals fully meet the requirements of the specifications, and that the approved equals do not diminish both the grade of product and appearance to those products specified.

A-3-16 REF. DRAWING A0.2 SITE DETAILS

.1 Reference detail one-Construction Notes:
.1 Revise note 2 to read: "Move rocks and boulders to allow for new rough grading. Return rocks and boulders back to original locations."

.2 Reference detail one-Parking Lot Modification:
.1 Revise note 4 to read: "Provide light duty granular paving cover where asphalt removed (area shown hatched)."

A-3-17 REF. DRAWING A1.1 LOWER FLOOR DEMOLITION PLAN PHASE ONE AND TWO

.1 Add general note 1 to details One and Two:
"1. Remove existing door hardware where new hardware is scheduled."

A-3-18 REF. DRAWING A1.2 MAIN FLOOR DEMOLITION PLAN PHASE ONE AND TWO

.1 Detail 2: Revise note on two pieces of equipment below grid E and 6-7 to read: "Disconnect existing Fume hood and CA Chamber and move into temporary storage in Lower Level. Move back into renovated space at complete of new work. Refer also to mechanical/Electrical for disconnecting/connection of services." Refer also to Figures #1 & #2 on page 9 of this addendum.

.2 Detail 2: Revise note on owners' equipment above grid D and 6-7 to read: "Contractor to move existing owner equipment into lower level storage and return after completion of work. Coordinate with owner."

A-3-19 REF. DRAWING A2.1 LOWER FLOOR PLAN, SCHEDULES

.1 Reference detail 1: Refer to attached drawing for extent of flooring / transitions in rooms 021-026 as shown on drawing AR2.1, attached to this addendum.

A-3-20 REF. DRAWING A2.2 MAIN FLOOR PLAN, WALL/PARTITIONS TYPES

.1 Reference detail 1: Delete reference to 'Railing" South of Grid E & 9.

A-3-21 REF. DRAWING A3.1 EXTERIOR ELEVATIONS

.1 Revise detail 2/A3.1 as shown on Drawings AR2.2 to show approximate Cement Siding panel sizes, attached to this addendum.

A-3-22 REF. DRAWING A4.1 DETAILS

.1 Detail 2: Delete reference to new asphalt and base.

A-3-23 REF. DRAWING A4.2 DETAILS

.1 Detail 1: Delete reference to new asphalt paving.

A-3-24 REF. DRAWING S2 BASEMENT PLAN

.1 Detail 1: Delete new pad and bollards North of Grid A and Grid one.
.2 Detail 1: Refer to Architectural drawings for bollard locations and numbers.
.3 Detail 1: Door pads – Revise note for exterior pads to read "Reinforce as per detail 6/S4. (Single mat 15M @400 o.c.)
.4 Detail 1: Dowel new grade beams into existing structure with 2-20Mx750lg top & bottom similar to note on detail 6/S4.

A-3-25 REF. DRAWING S4 SITE DETAILS

.1 Detail 6: Provide new 25x150x300 wide key @800 o.c. (every other dowel location)

A-3-26 REF. DRAWING M1.1 EQUIPMENT SCHEDULE

.1 Air Cooled Condensing Unit CU-1: Delete the removing the following: *"Unit has variable capacity compressor and four refrigerant circuits with external hot gas bypass for load modulation on lead circuit"* and replace with *"Unit has four circuits with a variable capacity scroll compressor on the lead circuit."*

.2 Revise the Direct Expansion Cooling Coils, Summer Energy Recovery, and Winter Energy Recover sections of the Air Handling Unit Schedule as per the attached Drawing M1.2R1.

.3 Revise Exhaust Fans EF-3, EF-4, and EF-5 within the Fan Schedule as per the attached Drawing M1.1R1.

A-3-27 REF. DRAWING M2.6 MAIN FLOOR PLAN PHASE II PLUMBING DEMOLITION

.1 Detail 1: Add note to existing fume hood being disconnected east of gridline 6 and at gridline D: "Disconnect the existing water lines, sanitary line and plumbing vent line serving the sink located within the fume hood. The lines are to be removed back to ceiling space below and above and capped off or removed as applicable. The lines at the fume hood are to be capped for reconnection when the fume hood is reinstalled (see drawing M2.8)."

A-3-28 REF. DRAWING M2.8 MAIN FLOOR PLAN PHASE II REVISED PLUMBING PLAN

.1 Detail 1 Room 111: Add note to existing fume hood being reconnected east of gridline 6 and at gridline D: "Provide 12Ø hot, 12Ø cold and 38Ø sanitary lines to connect to mains in ceiling space of basement, below Room 110, and rise up in wall between Rooms 110 and 111 to serve sink located within fume hood being reconnected at this location. Extend plumbing vent line as required to serve sink."

A-3-29 REF. DRAWING E1.4

.1 In the room along Gridline 6/D the contractor shall disconnect all equipment in this room and package all disconnects and associated switches and receptacles with each piece of equipment for re-installation in the new Room 111. Two pieces of equipment shown along the south west wall are being re-installed in the new space.

A-3-30 REF. DRAWING E2.2

.1 Revise one Type 'F' fixture in Room 102 just outside of Door 103A to be a non-switched night light. All other fixtures in this room to be controlled by the dimmer switch for circuit 21C-26.

.2 Revise the center Type 'F' fixture in Room 101 just outside of Door 101A to be a non-switched night light.

A-3-31 REF. DRAWING E3.1

.1 Revise general note #1 room name 006 to be 004A.

.2 In Room 011 there are two existing fire alarm horn strobes as indicated on E1.3 that shall remain.

.3 Revise Fire Rated Keynotes to delete reference to series 22 or 33 or 44+.

.4 Provide oversized Rigid PVC frost sleeves for incoming feeder conduits to basement electrical room note #4 and #24.

A-3-32 REF. DRAWING E3.2

.1 In Room 111 the contractor shall re-connect the relocated equipment shown along the west wall. Utilize existing electrical disconnects packaged with salvaged equipment from the demolition phase.

A-3-33 REF. DRAWING E4.1

.1 Revise one 100A-3P spare breaker in Distribution Panel '2NP' to a 100A-2P breaker for Panel '2OK'. Run 3 #3 RW90 & #8 GRND. in 35mm EMT.

.2 Provide oversized Rigid PVC frost sleeves for each incoming secondary feeder conduits from SPC transformer.

A-3-34 REF. DRAWING E4.2

.1 Revise EF -3 from 1/6 h.p. to1/4 h.p.
.2 Revise EF-4 from 1/2 h.p. to 3/4 h.p.
.3 Revise EF-5 from 1/3 h.p. to 3/4 h.p.
.4 Revise breaker for EF-4 from 20A-1P to 25A-1P, revise conductors to #10.
.5 Revise breaker for EF-5 from 15A-1P to 25A-1P, revise conductors to #10.
.6 For EF-3, EF-4 and EF-5 delete note #4, motors are electronically commutated type, no VFD's required.

A-3-35 REF. DRAWING E4.4

.1 For Panel '2OK' run 3 #3 RW90 & #8 GRND. in 35mm EMT.

A-3-36 REF. DRAWING E4.5

.1 Revise breaker for EF-4 in Panel '20D' to 25A-1P.
.2 Revise breaker for EF-5 in Panel '20B' to 25A-1P.

A-3-37 REF. DRAWING E4.6

.1 Revise feeder for Panel '21A' to be 4 #1/0 RW90 & #6 GRND in 53mm EMT .

A-3-38 REF. GENERAL QUESTIONS

.1 Q: Do we have a section detail on the sunshades?
A: Refer to window detail 1/A4.3, Specification section 10 71 13 Aluminum Sunshades and addendum item A-2-5.

.2 Q: Fiberglass windows: Are jamb and sill extensions required?
A: No, refer to addendum item A-2-2.

.3 Q: Drawing A0.2 Site details. Area to be rough graded: What is the desired finished surface?
A: Area to left as rough graded soil as noted on the drawings.

.4 Q: Contractor-can we receive a copy of the existing building drawings?
A: No, contractor to provide their bid based on the information provided. Drawings can be provided to the successful bidder.

.5 Q: Please confirm if all (new & existing) bollards are to receive polyethylene covers?
A: Yes, refer to Lower floor plan A2.1.

.6 Q: Please confirm all windows are fixed?
A: Refer to window schedule on A2.1.

.7 Q: Is there specific protection method required for existing trees?
A: Refer to section 01 35 26 Environmental Protection methods.

.8 Q: Drawing A1.2 detail 2: Provide more information on the owner equipment to be relocated and disconnected.
A: Refer drawings for disconnecting and reconnecting of equipment. Refer also to figures #1 & #2 attached below.

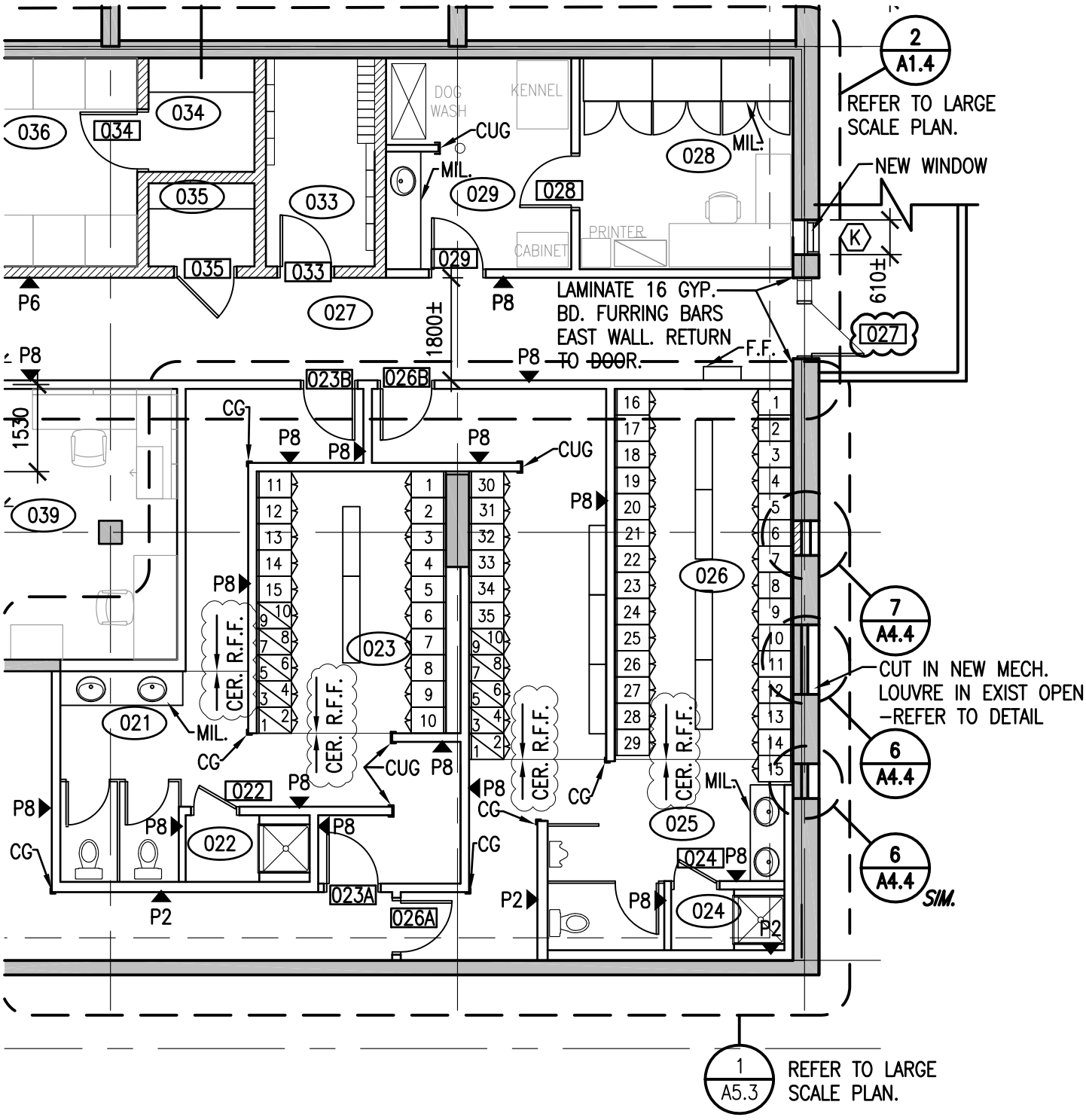
.9 Q: Request for substitution on 09 84 00 Acoustic Treatment.
A: Approved Manufacturer: Meet requirements of section 09 84 00.

.10 Q: Request for substitution on 09 54 26 Linear Wood Ceiling.
A: Approved Manufacturer: Meet requirements of section 09 54 26.

Figure #1 Fume Hood to be removed and reconnected-Refer to Phase II – Main Floor Demo.

Figure #2 CA Chamber to be removed and reconnected-Refer to Phase II – Main Floor Demo

END OF ADDENDUM NO. 3



PARTIAL LOWER FLOOR PLAN

1 / A2.1

1:100

SEPW Architecture Inc.

109 - 3725 Pasqua Street, Regina, SK, S4S 6W8 ph: (306) 569-2255
102 - 3718 Kinnear Place, Saskatoon SK, S7P 0A6 ph: (306) 652-6457
website: www.sepw.ca

PROJECT TITLE
NORTH DISTRICT BUILDING RECAPITALIZATION

DRAWING TITLE
FLOORING CLARIFICATIONS

DATE **2016-01-15**

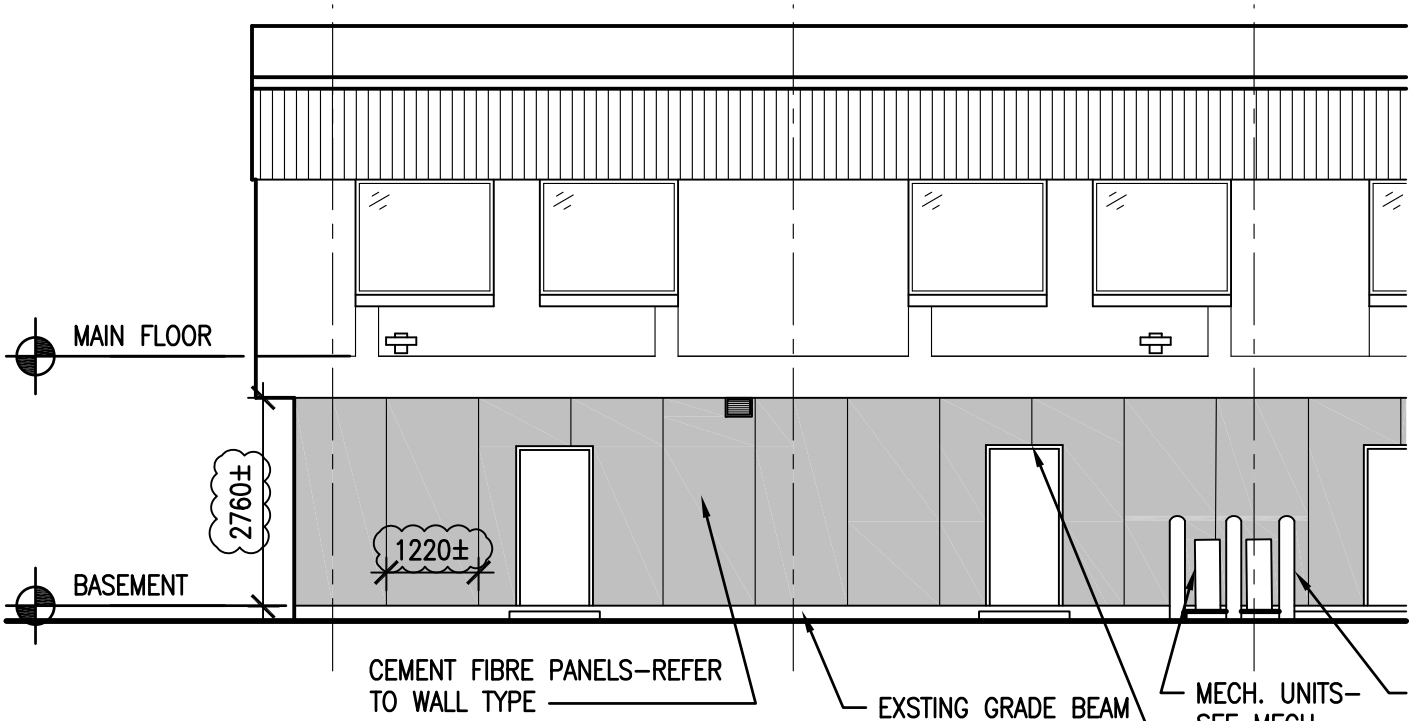
SCALE **SHOWN**

DRAWN **CT**

CHECKED **RP**

PROJECT NO. **R.026175.001**

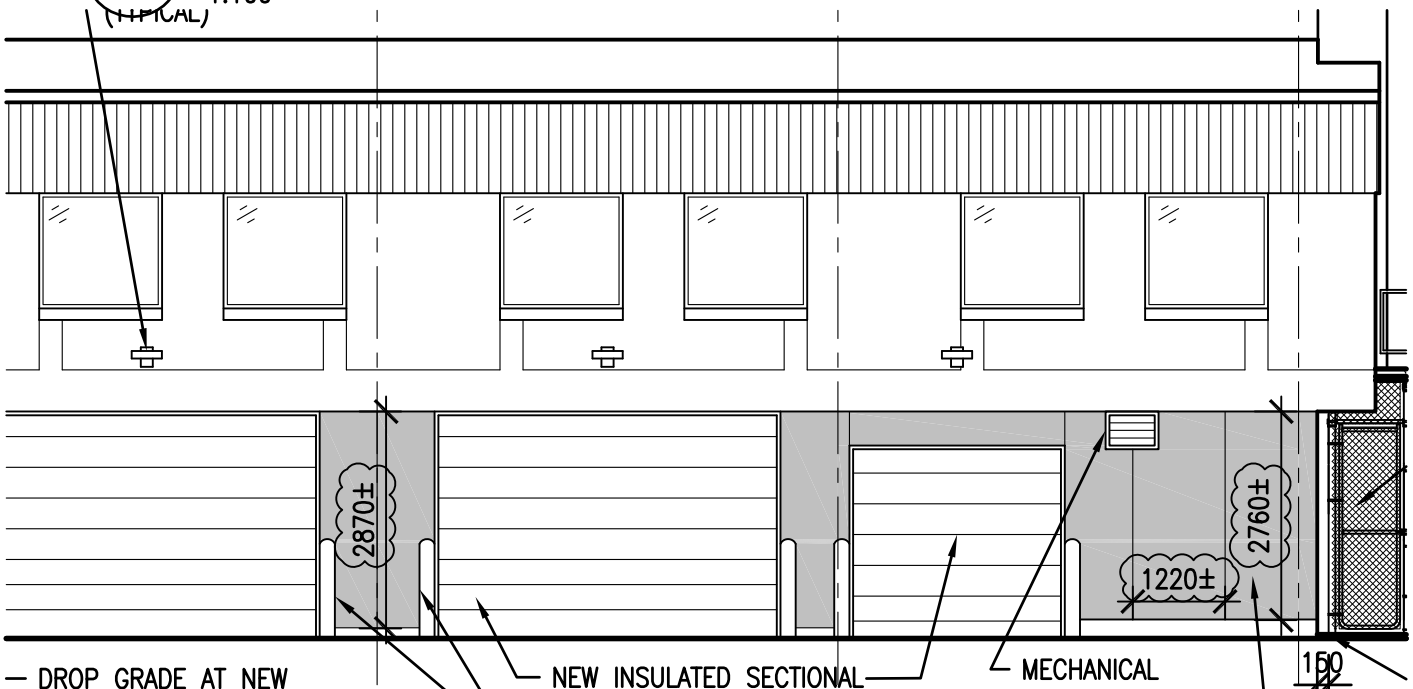
DRAWING NO. **AR2.1**



1 A3.1 (TYPICAL)

PARTIAL NORTH ELEVATION

1:100



2 A3.1

PARTIAL NORTH ELEVATION

1:100

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PROJECT TITLE **NORTH DISTRICT BUILDING RECAPITALIZATION**	DATE **2016-01-15**	PROJECT NO. **R.026175.001**
	SCALE **SHOWN**	DRAWING NO. **AR2.2**
DRAWING TITLE **EXTERIOR SIDING CLARIFICATIONS**	DRAWN **CT**	
	CHECKED **RP**	

FAN SCHEDULE

Cabinet: Design based on Loren Cook DB and Gemini Models, and Greenheck CSP Models. Housings to be lined with 13 mm thick acoustic insulation. Motor to be mounted on resilient elastic grommets. Fan shall have forward curved wheel AMCA rated for air and sound performance. Units shall be installed complete with backdraft damper and flexible duct connections. Units not operating from local speed dial shall be complete with factory wired and installed solid state speed control for air balancing (this is not a disconnect). Suspend fans from structure with spring isolation hangers. SQN models to be complete with Electronically Commutated Motors.

General Information						Airflow				Motor				
Tag	Location	Wheel	Model	Wheel RPM	Sound Sones	Flow L/S	Flow (CFM)	S.P. Pa	S.P. in. w.c.	Control	Drive Loss %	H.P. kW	H.P. hp	V / Hz / P
PHASE 1														
EF-1	026	Centrifugal	GN-842	976	3.0	403	(854.0)	125	(0.50)	CV - EMCS	Direct	0.25	(1/3)	120/60/1
EF-2	029	Centrifugal	GC-620	960	3.7	132	(279.0)	125	(0.50)	LS - EMCS	Direct	0.06	(1/12)	120/60/1
EF-3	037	Centrifugal	100SQN17DEC	1628	7.5	292	(619.0)	125	(0.50)	ECM-EMCS	Direct	0.19	(1/4)	120/60/1
EF-4	004	Centrifugal	135SQN17DEC	1398	11.0	768	(1628.0)	125	(0.50)	ECM-EMCS	Direct	0.56	(3/4)	120/60/1
EF-5	008	Centrifugal	135SQN17DEC	1305	10.4	700	(1484.0)	125	(0.50)	ECM-EMCS	Direct	0.56	(3/4)	120/60/1
PHASE 2														
EF-6	011	Centrifugal	CSP-A200	900	1.3	61	(129.0)	125	(0.50)	CV-EMCS	Direct	0.19	(1/4)	120/60/1
EF-7	135	Centrifugal	GC-142	1000	2.8	33	(70.0)	125	(0.50)	LS - EMCS	Direct	0.06	(1/12)	120/60/1
EF-8	110	Centrifugal	GN-740	1600	4.2	328	(695.0)	125	(0.50)	CV-EMCS	Direct	0.19	(1/4)	120/60/1
EF-9	011	Centrifugal	CSP-A710	1325	2.0	190	(403.0)	125	(0.50)	LS-EMCS	Direct	0.19	(1/4)	120/60/1

Definitions
ECM- Electronically Commutated Motor
CV- Constant Volume
LS- Local Switch

HDA ENGINEERING LTD.
Mechanical Engineering Consultants
1580 Angus Street Regina, Saskatchewan S4T 1Z1
P:306-525-9815 F: 306-525-6369 E: hda@hdaeng.com

SCALE AS SHOWN FILE 14082
DATE JAN 2016 DRAWN JNM

PROJECT NORTH DISTRICT BUILDING RECAPITALIZATION
PRINCE ALBERT, SASKATCHEWAN

SHEET TITLE EQUIPMENT SCHEDULE

DRAWING NUMBER
M1.1R1

AIR HANDLING UNIT SCHEDULE

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

Air Handling Unit AHU-1: Supply Air (in order of airflow), outdoor air intake louver and dampers, 50mm MERV 8A prefilter, energy recovery wheel with bypass dampers, recirc damper, 50mm MERV 8A prefilter and 300mm MERV 13A final filter section c/w mag gauge,hot water heating coil, DX cooling coil, plenum supply fan c/w zero pressure drop piezoelectric factory ring airflow measuring system. Return Air (in order of airflow), 50mm MERV 8A filter, plenum exhaust fan c/w zero pressure drop piezoelectric factory ring airflow measuring system, recirc damper, energy recovery wheel with bypass dampers, and relief air dampers and louver. Refer to unit configurations on this sheet.

Fan Data

AHU	TAG	Size		Fan		Airflow		TSP		ESP		Control	H.P.		V / Hz / P
		mm	in	Type	Class	L/S	(CFM)	Pa	in. w.c.	Pa	in. w.c.		kW	hp	
AHU-1	RF-1	686	(27.0)	Forward Curve	II	4033	(8550)	1170	(4.70)	623	(2.50)	VFD - EMCS	14.92	(20)	575/60/3
AHU-1	SF-1	762	(30.0)	Forward Curve	II	6132	(13000)	1805	(7.25)	747	(3.00)	VFD - EMCS	18.65	(25)	575/60/3

Heat Wheel Motor

Control	H.P.		V / Hz / P
	kW	hp	
VFD - EMCS	1.119	1.5	575/60/3

Hydronic Heating Coils (30% Ethylene Glycol)

AHU	Tag	Airflow		EAT		LAT		APD		Coil Capacity		Medium	Derate	EWT		LWT		Flow		Water PD	
		L/S	(CFM)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Pa	in. w.c.	kW	(MBH)			Deg. C.	Deg. F.	Deg. C.	Deg. F.	L/S	(GPM)	kPa	ft
AHU-1	HC-1	6132	(13000)	-17.8	(0)	15.6	(60)	32	(0.130)	238.6	(814.0)	30% EG	8%	82.2	(180)	71.1	(160)	5.42	(86.0)	23.31	7.8

Direct Expansion Cooling Coils

AHU	Tag	Airflow		EAT (DB)		EAT (WB)		LAT		APD		Total Capacity		Sens. Capacity		Suction Temp		Controls
		L/S	(CFM)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Pa	in. w.c.	kW	(MBH)	kW	(MBH)	Deg. C.	Deg. F.	
AHU-1	DXC-1	6132	(13000)	31.1	(88)	19.4	(67)	11.7	(53)	289	(1.160)	175.5	(599.0)	137.2	(468.0)	7.2	(45)	Hot Gas Bypass

Summer Energy Recovery

		Outside Air								Energy Exchanged				Supply Air (after energy exchange)							
AHU	Tag	Airflow		EAT DB		EAT WB		APD		Capacity		Sens. Eff.	Lat. Eff.	Airflow		LAT DB		LAT WB		APD	
		L/S	(CFM)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Pa	in. w.c.	kW	(MBH)	%	%	L/S	(CFM)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Pa	in. w.c.
AHU-1	ERW-1	6132	(13000)	31.1	(88)	19.4	(67)	147	(0.590)	31.1	(106.0)	85.4	80.4	6132	(13000)	27.3	(81.2)	18.1	(64.5)	222	(0.890)

Winter Energy Recovery

		Outside Air								Energy Exchanged				Supply Air (after energy exchange)							
AHU	Tag	Airflow		EAT DB		EAT WB		APD		Capacity		Sens. Eff.	Lat. Eff.	Airflow		LAT DB		LAT WB		APD	
		L/S	(CFM)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Pa	in. w.c.	kW	(MBH)	%	%	L/S	(CFM)	Deg. C.	Deg. F.	Deg. C.	Deg. F.	Pa	in. w.c.
AHU-1	ERW-1	6132	(13000)	-40.0	-(40)	-40.0	-(40)	129	(0.520)	296.9	(1013.0)	88.9	84.3	6132	(13000)	-8.9	(16.0)	-8.4	(16.9)	209	(0.840)

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

HDA ENGINEERING LTD.
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PROJECT NORTH DISTRICT BUILDING RECAPITALIZATION
PRINCE ALBERT, SASKATCHEWAN

SHEET TITLE EQUIPMENT SCHEDULE

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