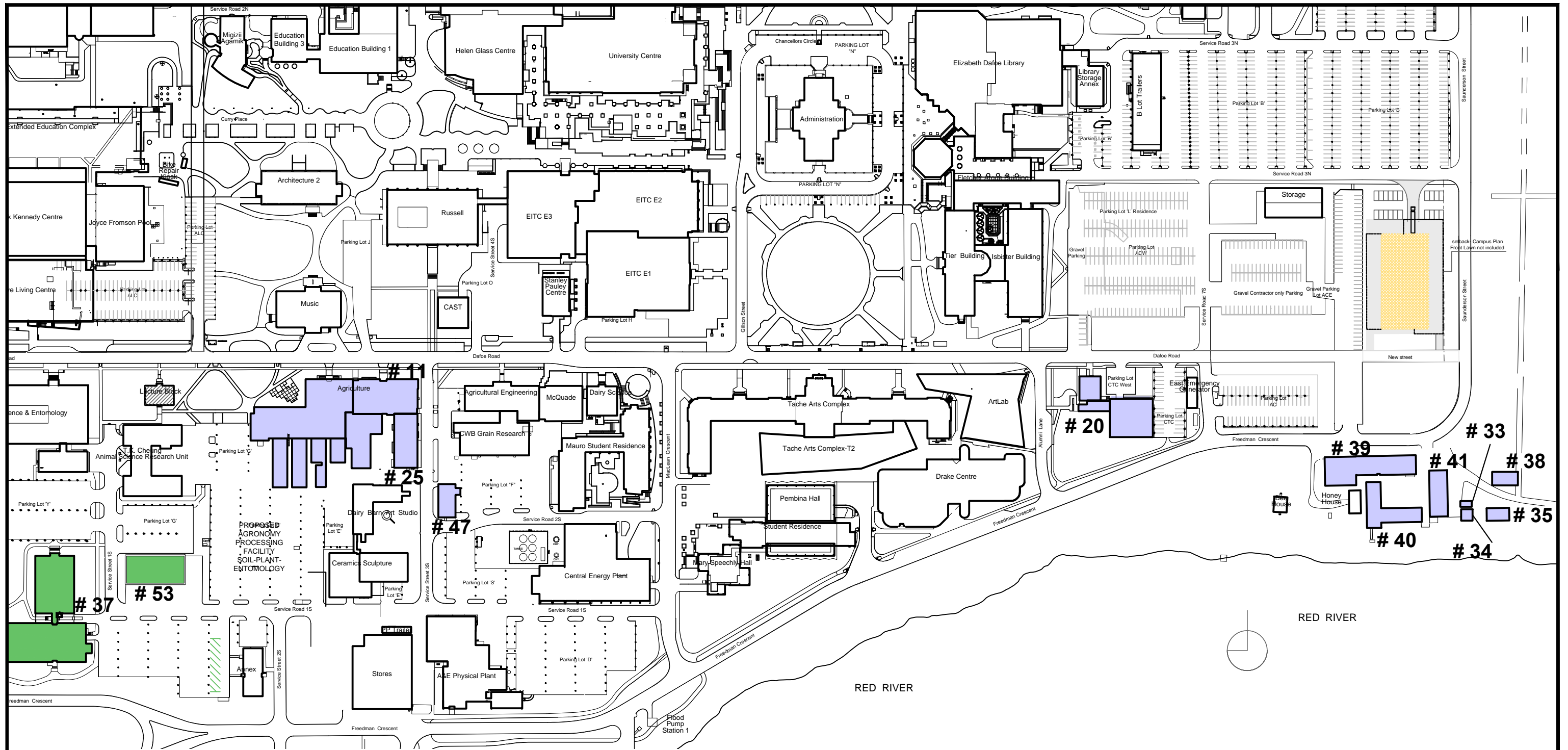




APPENDIX G

Building

	Page	
G-1	University of Manitoba Fort Garry Campus Layout with Plant and Soil Science Buildings and Proposed Facility Location	2
G-2	University of Manitoba Fort Garry Campus Layout with Proposed Facility Located at the Point	3
G-3	Sketch of Proposed Facility – Front and Side views	4
G-4	Floor Plan Layout of Proposed Facility	6
G-5	Detailed Elevation Sketches of Proposed Facility	7
G-6	Functional Space Program – Table Summarizing Proposed Layout Details	12
G-7	Comparison Proposed Layout to Existing Infrastructure	14
G-8	Class C Estimate	17



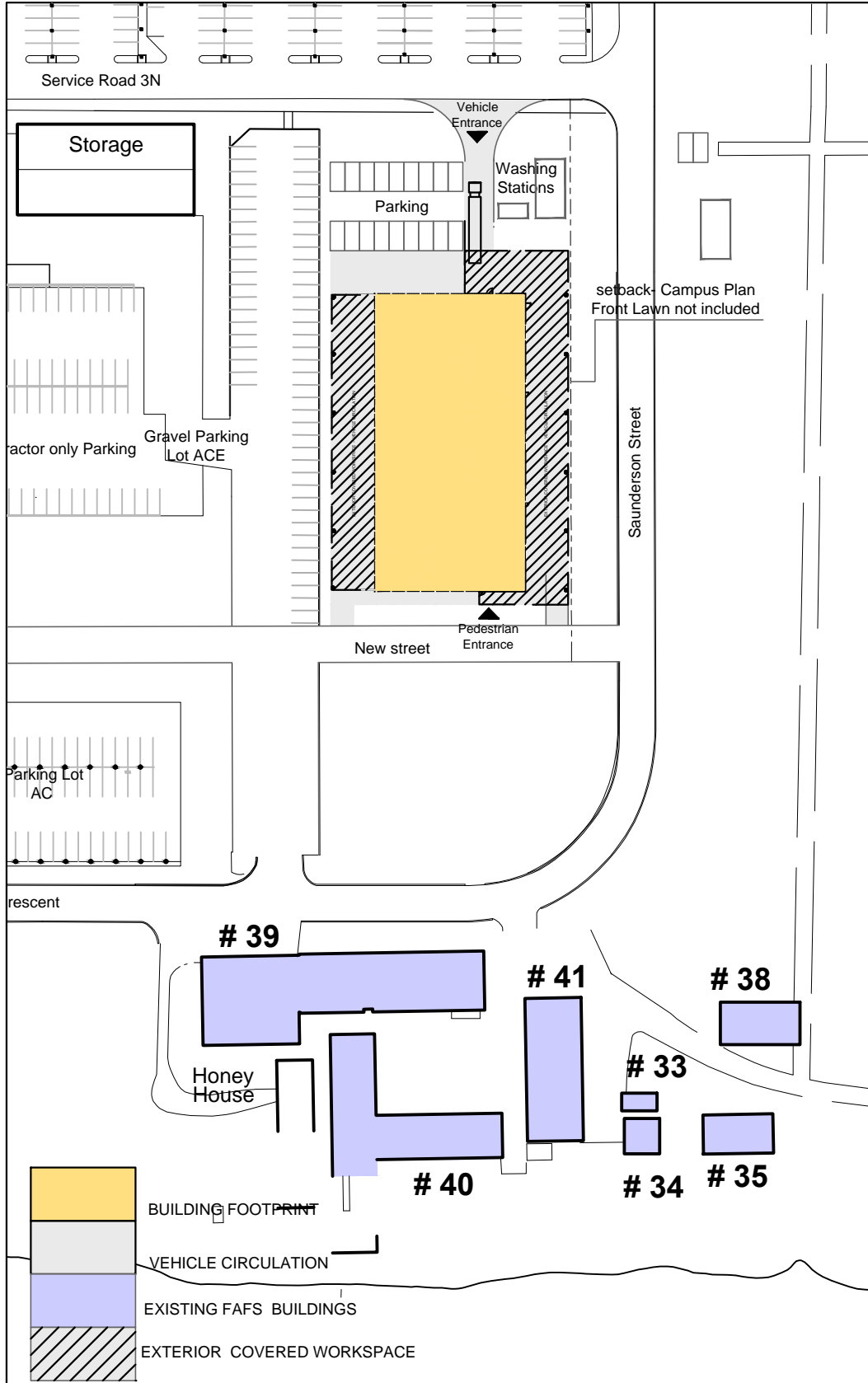
- Plant Science
- Soil Science
- Proposed Location New Agronomy Processing facility

- 11- Agriculture (PS)
- 20- Crop Tech Centre (PS)
- 25- Agriculture Plant Science (PS)
- 33- Chemical Storage -Pesticide & Fertilizer (PS)
- 34- Canola Processing (PS)
- 35- Equipment Storage (PS)
- 37- Ellis Building (SC)
- 38- Vegetable storage (PS)
- 39- Field Stations (PS)
- 40- Seed processing (PS)
- 41- Garages (PS)
- 47-Research Annex (PS)
- 53-Soil Equipment Shed (SC)



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PROJECT: <p style="text-align: center;">AGRONOMY PROCESSING-FACILITY</p> SHEET TITLE: <p style="text-align: center;">EXISTING-PLANT-AND-SOIL-SCIENCE-BLDGS</p>	DATE: 23-APRIL-19 SCALE: --- REQ. NO.: 99F-C170608-01 DRAWN BY: MV APPROVED BY: APPROVED_BY DWG NO.: 2
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Sketch – Proposed Front View: Prairie Crops & Soils Research Facility
Faculty of Agricultural and Food Sciences University of Manitoba

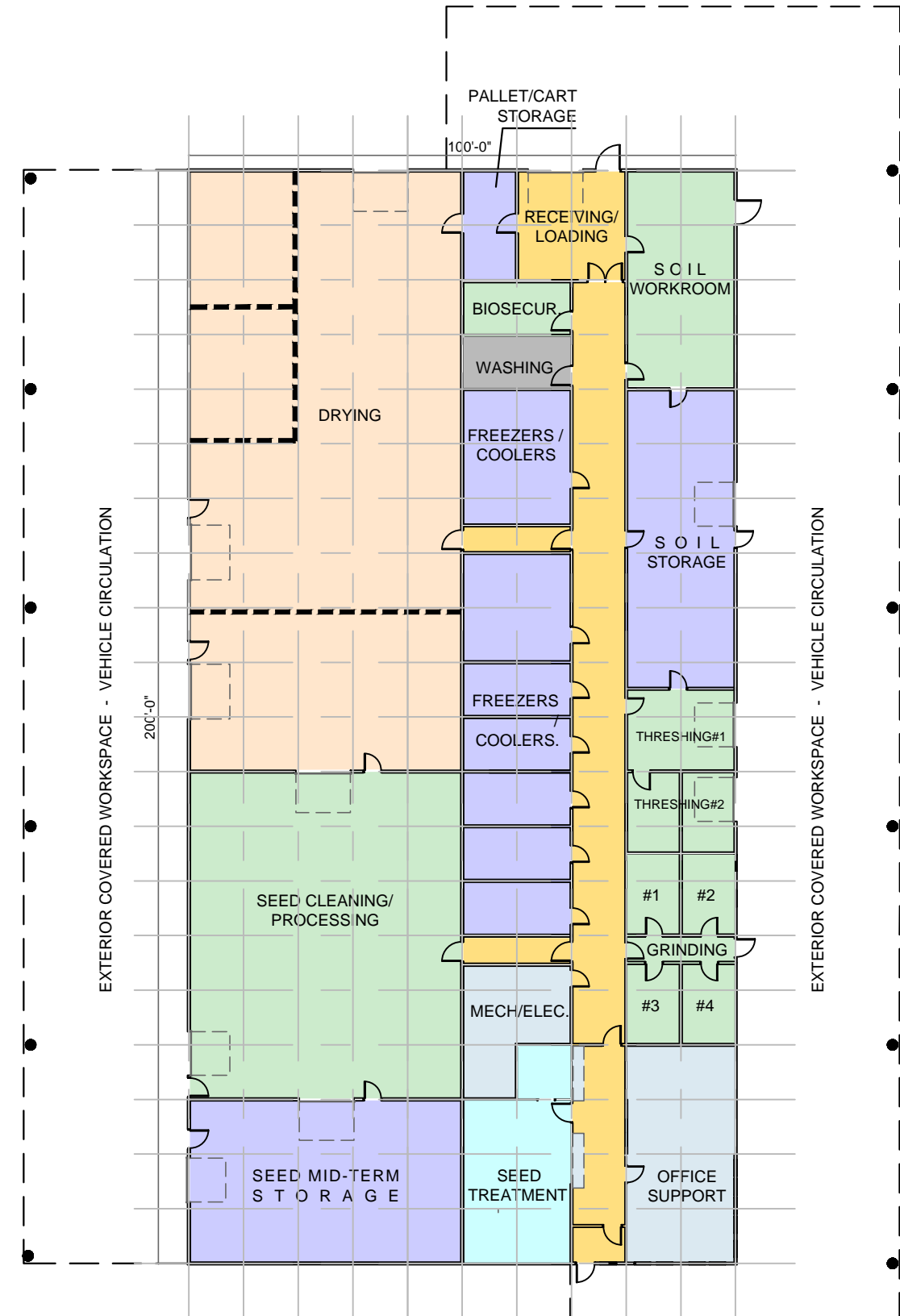


Image Credit: Affinity Architecture Inc.

Sketch – Proposed Side View: Prairie Crops & Soils Research Facility
Faculty of Agricultural and Food Sciences University of Manitoba



Image Credit: Affinity Architecture Inc.



- PROCESSING
- DRYING
- STORAGE
- TREATMENT
- SUPPORT
- CIRCULATION-RECEIVING-LOADING
- WASHING
- MOVABLE PARTITIONS - for biosecurity and /or use flexibility.

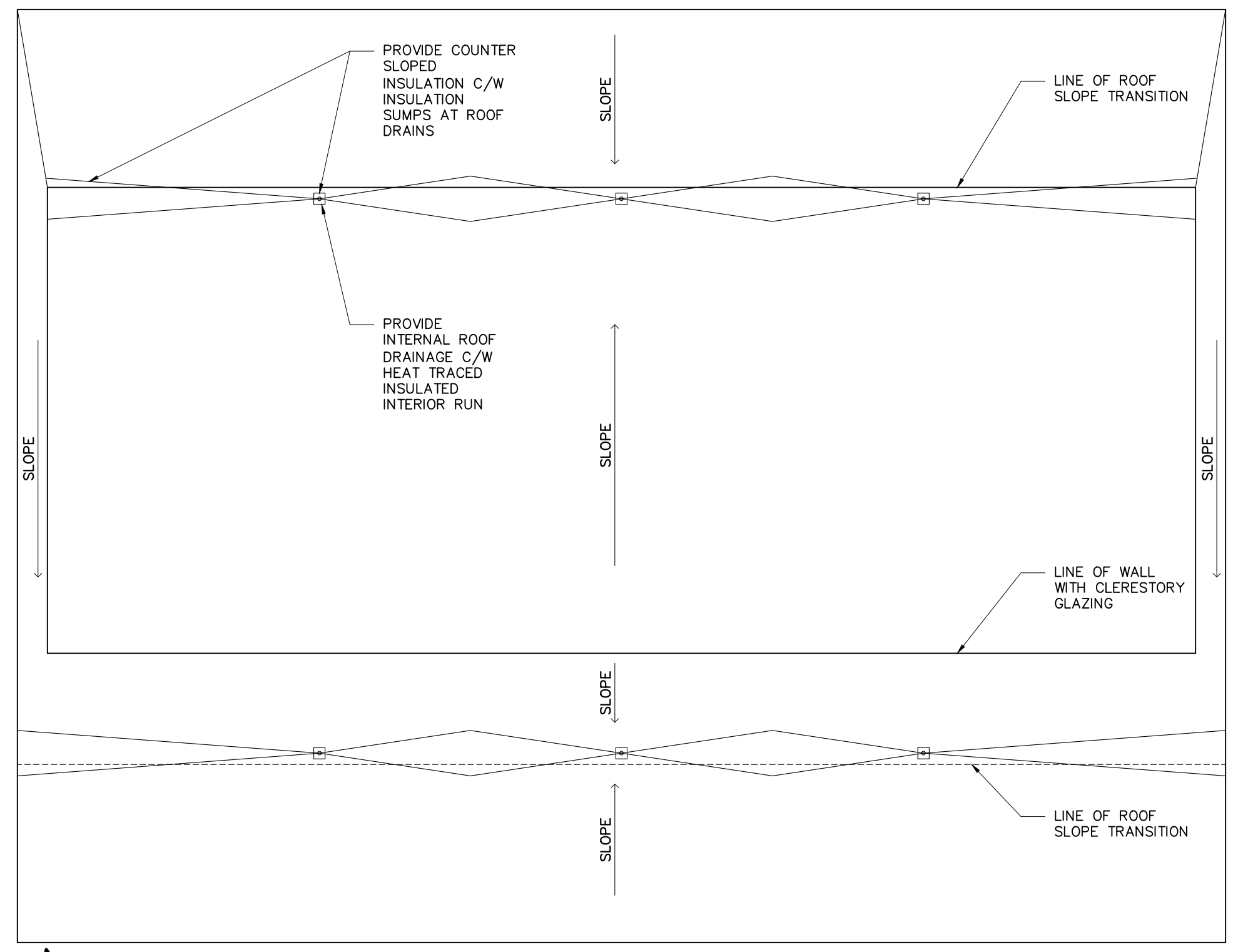
DRAWN BY: MV	DATE: 31-JUL-19	APPROVED BY:	2
SCALE: NTS	REG. NO.:	99F-C170608-01	

PROJECT: **AGRONOMY PROCESSING-FACILITY**

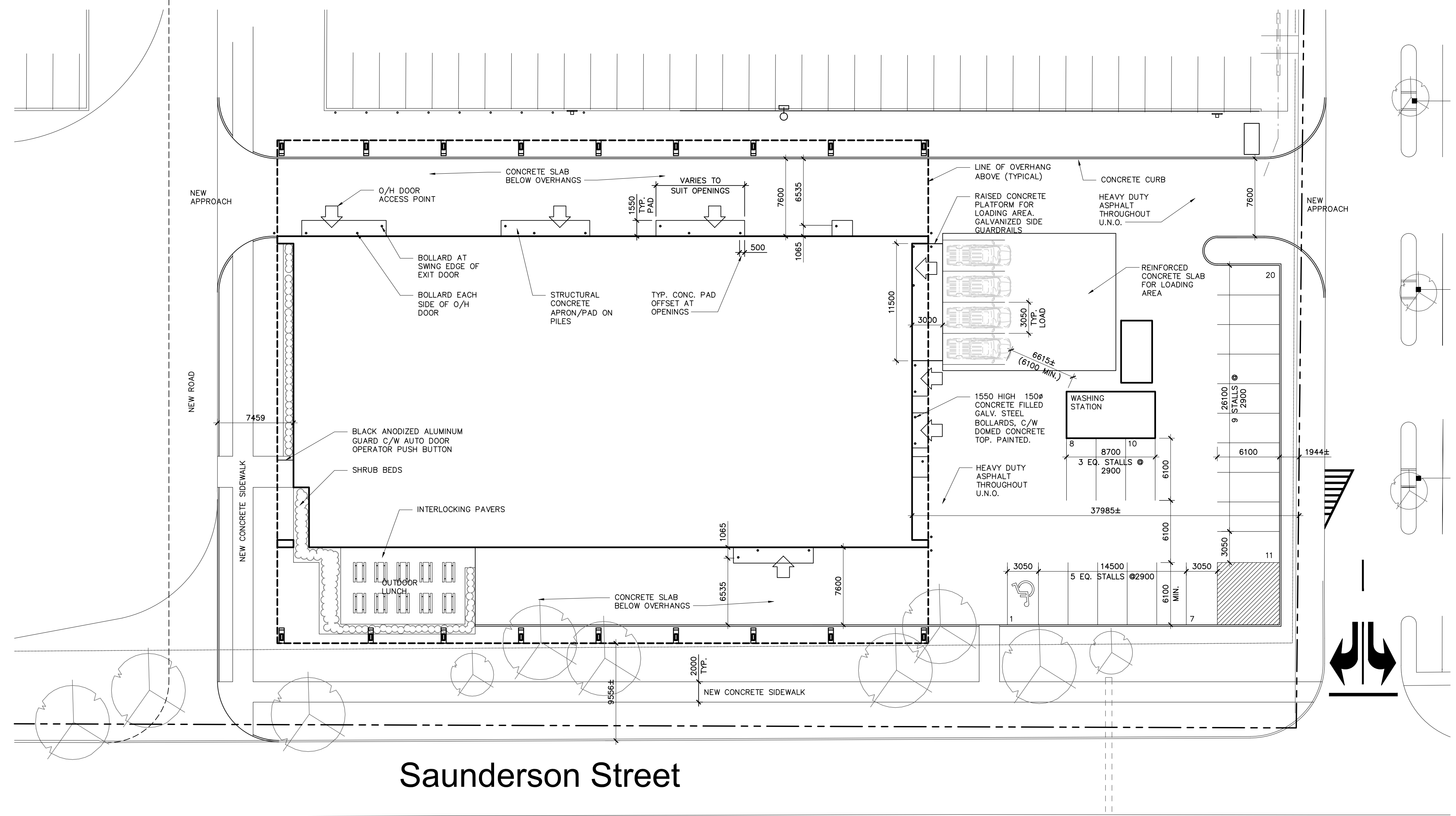
SHEET TITLE: NOTE: SCHEMATIC LAYOUT IS FOR SPACE PLANNING PURPOSES TO ESTIMATE BALLPARK FOOTPRINT ONLY.

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University of Manitoba



2 ROOF PLAN
SCALE: 1:250



Saunderson Street

1 SITE PLAN
SCALE: 1:250

CLIENT APPROVAL:
SIGNATURE: _____
PRINT NAME: _____
DATE: _____

		3
		2
		1
ISSUED FOR CLASS C	20/01/24	0
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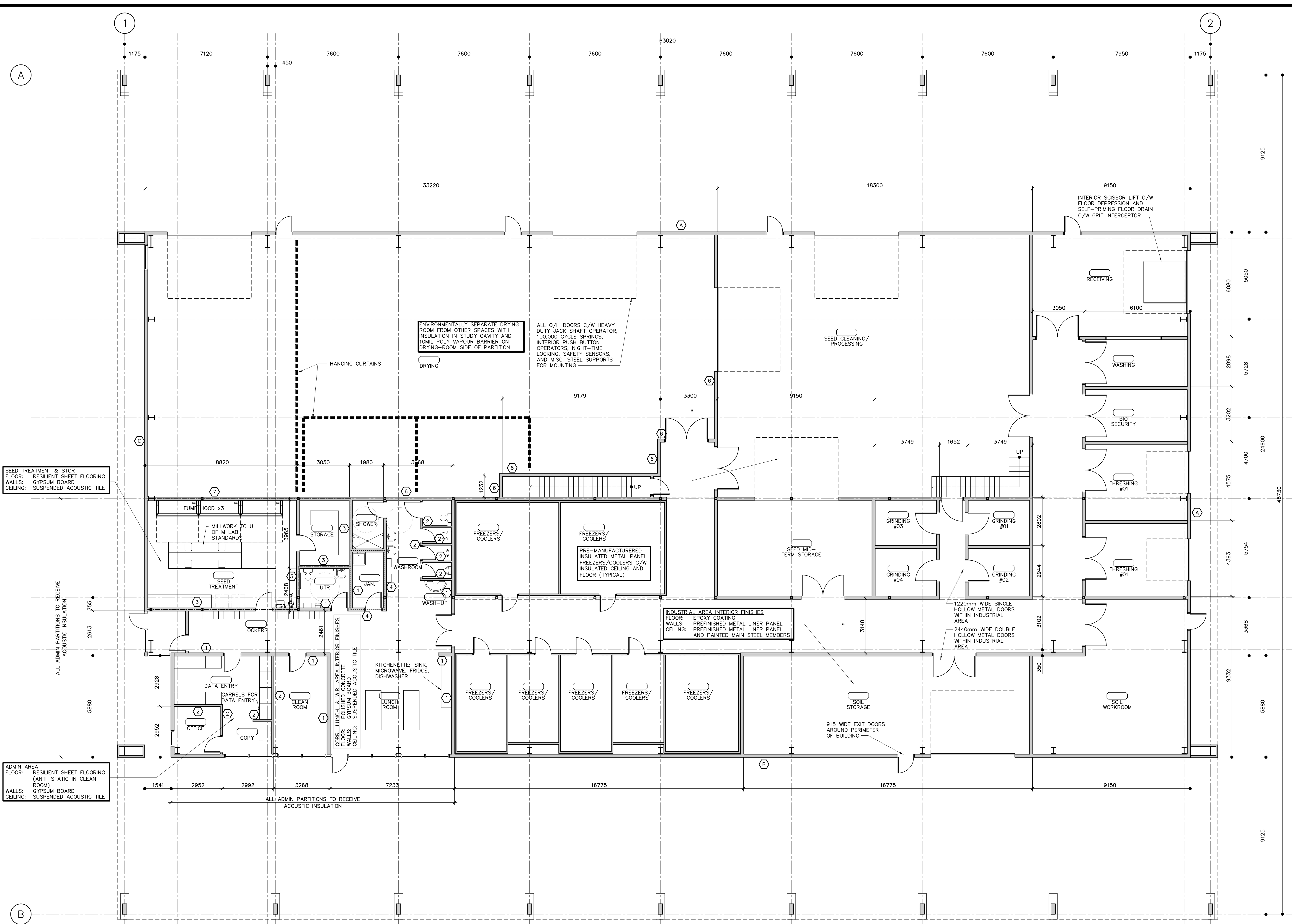
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PROJECT TITLE:
**PRAIRIE CROPS RESEARCH & INNOVATIONS FACILITY
FORT GARRY CAMPUS - DAFOE ROAD**

SHEET TITLE:
**SITE PLAN
ROOF PLAN**

SCALE: 1:250	DESIGNED: EH
DATE: 2020/01/24	DRAWN: JT
REQUISITION NO. & PROJECT NO. #011C170608-01	SHEET NO. A1.1



SEED TREATMENT & STOR
 FLOOR: RESILIENT SHEET FLOORING
 WALLS: GYPSUM BOARD
 CEILING: SUSPENDED ACOUSTIC TILE

ADMIN AREA
 FLOOR: RESILIENT SHEET FLOORING
 (ANTI-STATIC IN CLEAN ROOM)
 WALLS: GYPSUM BOARD
 CEILING: SUSPENDED ACOUSTIC TILE

ENVIRONMENTALLY SEPARATE DRYING ROOM FROM OTHER SPACES WITH INSULATION IN STUDY CAVITY AND TOMIL POLY VAPOUR BARRIER ON DRYING-ROOM SIDE OF PARTITION

ALL O/H DOORS C/W HEAVY DUTY JACK SHAFT OPERATOR, 100,000 CYCLE SPRINGS, INTERIOR PUSH BUTTON OPERATORS, NIGHT-TIME LOCKING, SAFETY SENSORS, AND MISC. STEEL SUPPORTS FOR MOUNTING

INDUSTRIAL AREA INTERIOR FINISHES
 FLOOR: EPOXY COATING
 WALLS: PREFINISHED METAL LINER PANEL
 CEILING: PREFINISHED METAL LINER PANEL AND PAINTED MAIN STEEL MEMBERS

INTERIOR SCISSOR LIFT C/W FLOOR DEPRESSION AND SELF-PRIMING FLOOR DRAIN C/W GRIT INTERCEPTOR

FIRE SEPARATION LEGEND
 - - - - - Fire000 - 0 Hour Fire Separation (SMOKE/NON RATED FIRE SEPARATION)
 - - - - - Fire060 - 60 Minute Fire Separation (60 MINUTE)
 USE MOULD RESISTANT FIRE RATED GYPSUM BOARD ADJACENT TO DRYING ROOM

NOTE:
 ALL INTERIOR WALL PARTITION TO BE TYPE 5 EXCEPT WHEN NOTED
 SEE DRAWING A5.1 FOR WALL TYPES

CLIENT APPROVAL:
 SIGNATURE: _____
 PRINT NAME: _____
 DATE: _____

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		2
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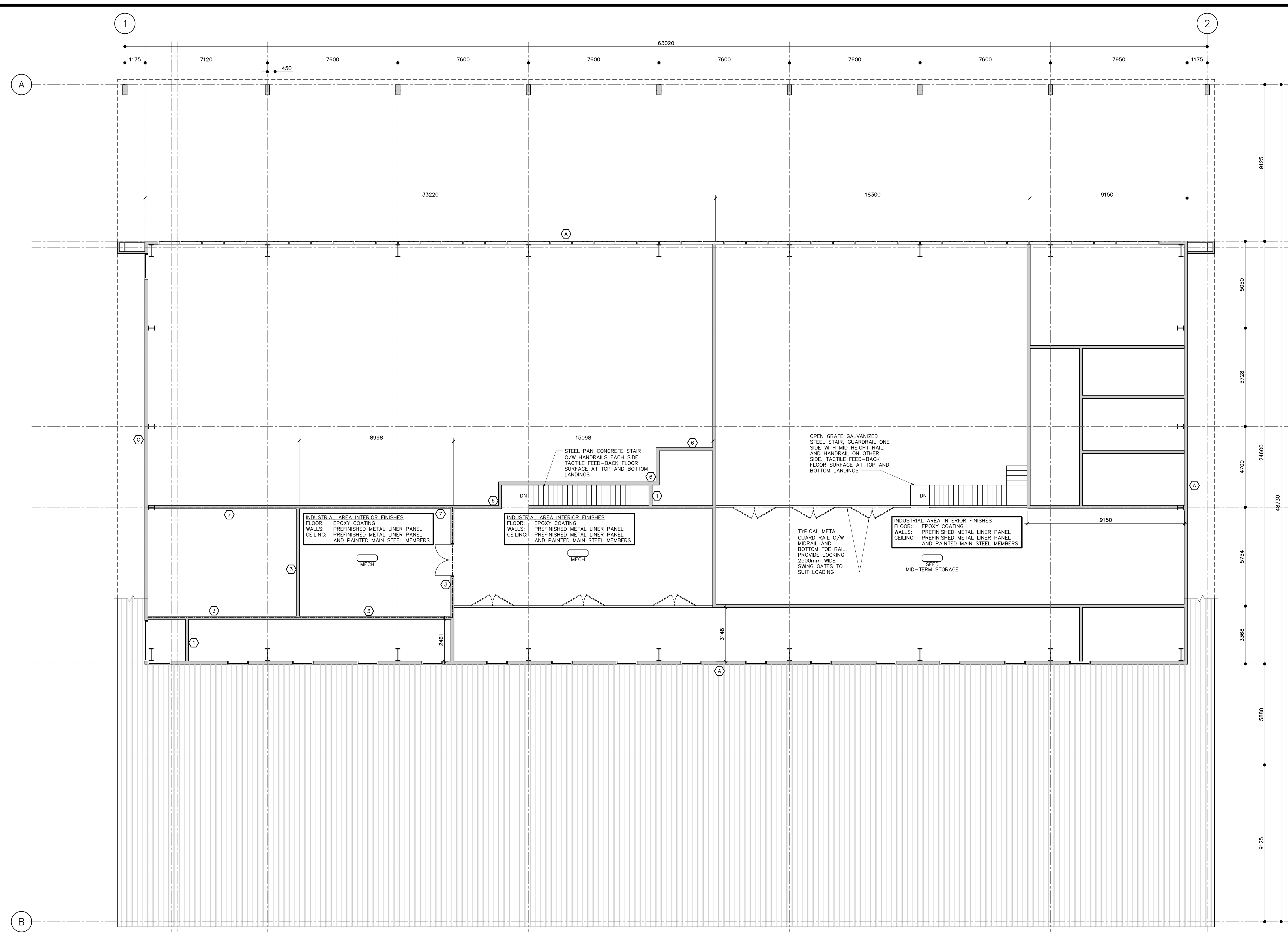
CONSULTANT:

PROJECT TITLE:
**PRAIRIE CROPS RESEARCH & INNOVATIONS FACILITY
 FORT GARRY CAMPUS - DAFOE ROAD**

SHEET TITLE:
MAIN FLOOR PLAN

SCALE: 1:100	DESIGNED: EH
DATE: 2020/01/24	DRAWN: JT
REQUISITION NO. & PROJECT NO. #011C170608-01	SHEET NO. A2.1

MAIN FLOOR PLAN
 SCALE: 1:100



CLIENT APPROVAL:
 SIGNATURE: _____
 PRINT NAME: _____
 DATE: _____

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		1
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 FORT GARRY CAMPUS - DAFOE ROAD**

SHEET TITLE:
MEZZANINE PLAN

SCALE: 1:100	DESIGNED: EH
DATE: 2020/01/24	DRAWN: JT
REQUISITION NO. & PROJECT NO. #011C170608-01	SHEET NO. A2.2

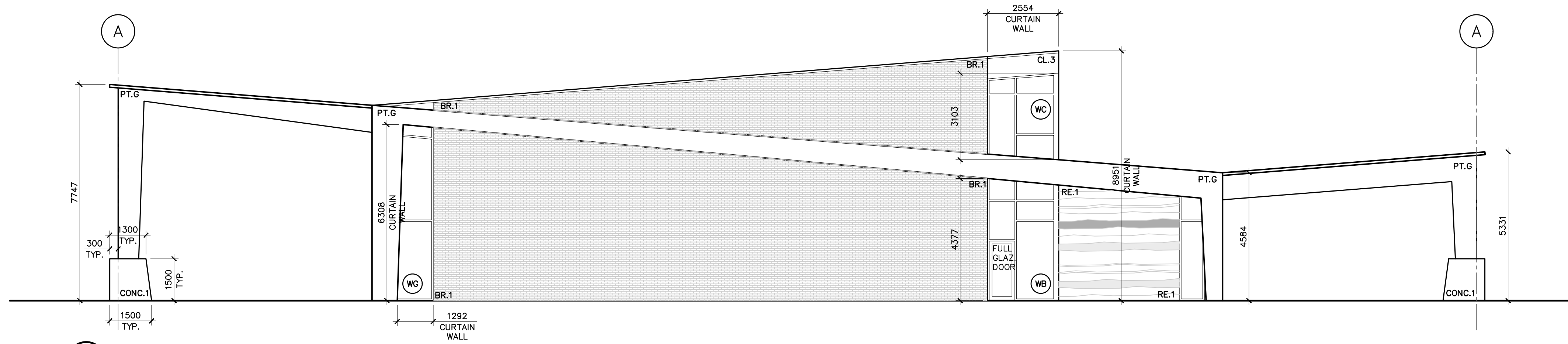
FIRE SEPARATION LEGEND
 Fire000 - 0 Hour Fire Separation (SMOKE/NON RATED FIRE SEPARATION)
 - - - - - Fire060 - 60 Minute Fire Separation (60 MINUTE)
 USE MOULD RESISTANT FIRE RATED GYPSUM BOARD ADJACENT TO DRYING ROOM

NOTE:
 ALL INTERIOR WALL PARTITION TO BE TYPE (5) EXCEPT WHEN NOTED
 SEE DRAWING AS.1 FOR WALL TYPES

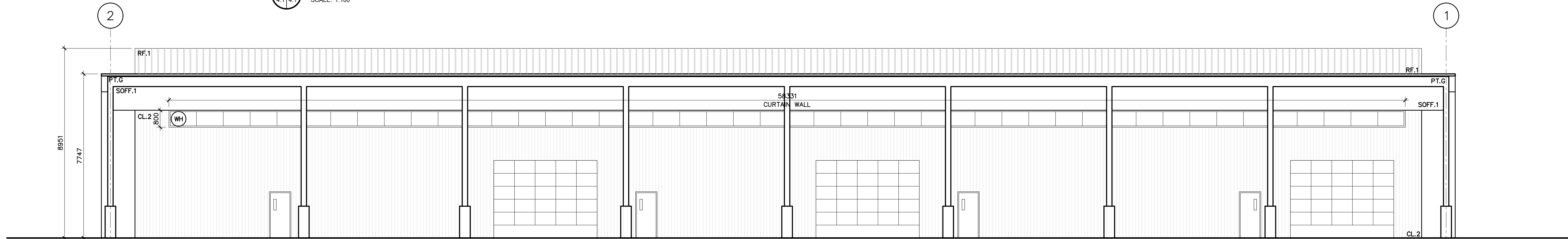
MEZZANINE PLAN
 SCALE: 1:100



1 BUILDING ELEVATION - EAST
4.1 4.1 SCALE: 1:100

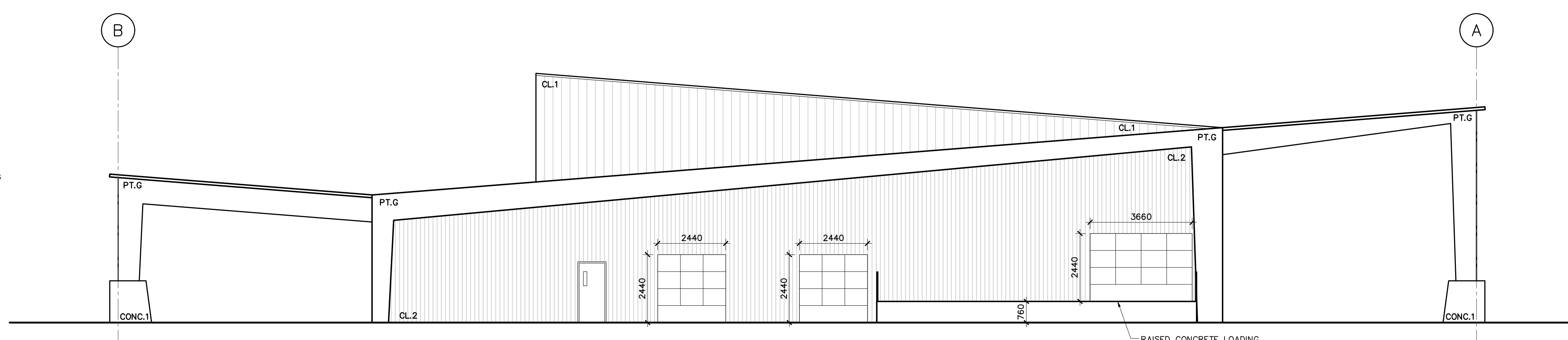


2 BUILDING ELEVATION - SOUTH
4.1 4.1 SCALE: 1:100



3 BUILDING ELEVATION - WEST
4.1 4.1 SCALE: 1:100

- EXTERIOR MATERIALS**
- NOTE: REFER TO FLOOR PLANS FOR BACKING WALL ASSEMBLY
- CONCRETE**
CONC.1 CAST-IN-PLACE CONCRETE
- PREFINISHED METAL CLADDING:**
CL-1 VICWEST AD150, BLACK
CL-2 VICWEST, 7/8 CORUGATED, CHARCOAL
CL-3 PREFINISHED METAL SHEET LAMINATED TO 19mm P.T. PLYWOOD C/W WRAPPED EDGES, VICWEST CHARCOAL
- MASONRY VENEER**
BR.1 BRICK VENEER, COLOUR TO MATCH ADJACENT BUILDINGS
- RAMMED EARTH PANEL**
RE.1 SIREWALL INSULATED RAMMED EARTH PANELS
- ROOF**
RF.1 MOD-BIT ROOF SYSTEM, STANDARD OF ACCEPTANCE SOPREMA, COLOUR T.B.D.
- SOFFIT**
SOFF.1 VICWEST, ALUMINUM PERFORATED AD150, OFFSET SPACING, CHARCOAL
- PAINT**
PT.G HOT DIPPED GALVANIZED STEEL MEMBER, PAINTED TO MATCH CL-2



4 BUILDING ELEVATION - NORTH
4.1 4.1 SCALE: 1:100

CLIENT APPROVAL:
SIGNATURE: _____
PRINT NAME: _____
DATE: _____

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		2
		1
ISSUED FOR CLASS C	20/01/24	0
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**PRAIRIE CROPS RESEARCH & INNOVATIONS FACILITY
FORT GARRY CAMPUS - DAFEO ROAD**

SHEET TITLE:
BUILDING ELEVATIONS

SCALE: 1:100	DESIGNED: EH
DATE: 2020/01/24	DRAWN: JT
REQUISITION NO. & PROJECT NO. #011C170608-01	SHEET NO. A4.1

MOD-BIT ROOF, NON-INSULATED
 - 2-PLY MOD-BIT ROOF SYSTEM, STANDARD OF ACCEPTANCE SOPREMA
 - FIBREBOARD
 - METAL DECKING BY PRE-ENG SUPPLIER
 - GALVANIZED Z-PURLINS, BY PRE-ENG SUPPLIER
 - PREFINISHED PERFORATED METAL SOFFIT, AS PER SOFF.1

MOD-BIT ROOF
 - 2-PLY MOD-BIT ROOF SYSTEM, STANDARD OF ACCEPTANCE
 - SOPREMA
 - FIBREBOARD
 - 2-LAYERS TYPE 2 RIGID HD EPS INSULATION (STAGGER LAYERS AND JOINTS), RSI 5.28
 - SELF-ADHERED VAPOUR BARRIER MEMBRANE
 - METAL DECKING BY PRE-ENG SUPPLIER
 - Z-PURLINS, BY PRE-ENG SUPPLIER, PAINTED

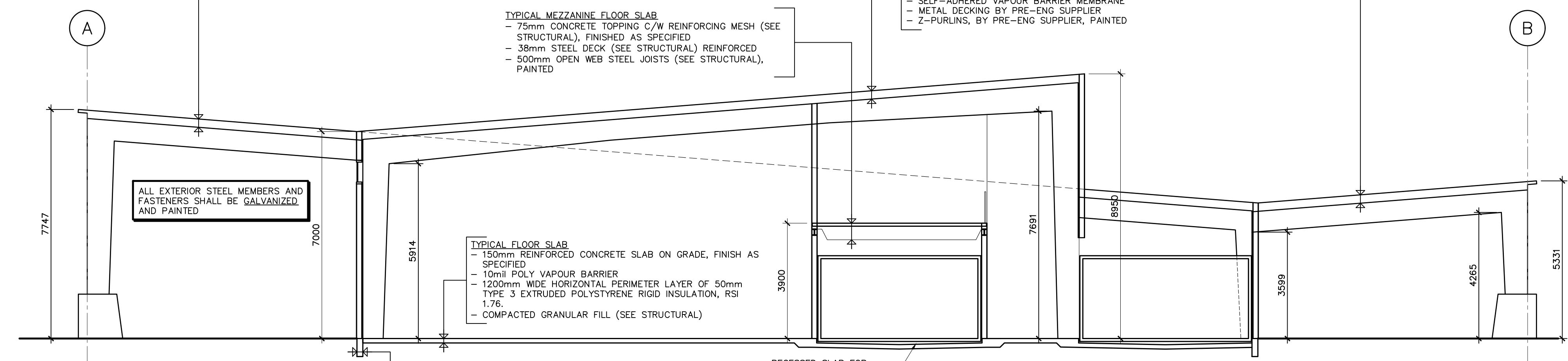
MOD-BIT ROOF, NON-INSULATED
 - 2-PLY MOD-BIT ROOF SYSTEM, STANDARD OF ACCEPTANCE SOPREMA
 - FIBREBOARD
 - METAL DECKING BY PRE-ENG SUPPLIER
 - GALVANIZED Z-PURLINS, BY PRE-ENG SUPPLIER
 - PREFINISHED PERFORATED METAL SOFFIT, AS PER SOFF.1

TYPICAL MEZZANINE FLOOR SLAB
 - 75mm CONCRETE TOPPING C/W REINFORCING MESH (SEE STRUCTURAL), FINISHED AS SPECIFIED
 - 38mm STEEL DECK (SEE STRUCTURAL) REINFORCED
 - 500mm OPEN WEB STEEL JOISTS (SEE STRUCTURAL), PAINTED

TYPICAL FLOOR SLAB
 - 150mm REINFORCED CONCRETE SLAB ON GRADE, FINISH AS SPECIFIED
 - 10mil POLY VAPOUR BARRIER
 - 1200mm WIDE HORIZONTAL PERIMETER LAYER OF 50mm TYPE 3 EXTRUDED POLYSTYRENE RIGID INSULATION, RSI 1.76
 - COMPACTED GRANULAR FILL (SEE STRUCTURAL)

TYPICAL EXTERIOR GRADE BEAM
 - CEMENT PARING C/W GALVANIZED WIRE MESH, WHERE EXPOSED ABOVE GRADE
 - 50mm TYPE 3 EXTRUDED POLYSTYRENE RIGID INSULATION, RSI 1.76
 - SELF-ADHERED WATERPROOFING MEMBRANE (SOPREMA COLPHENE 3000 RATED FOR COLD WEATHER OR APPROVED EQUAL, C/W PRIMER)
 - REINFORCED CONCRETE GRADE BEAM (SEE STRUCTURAL)

RECESSED SLAB FOR COOLERS/FREEZERS C/W SELF-PRIMING FLOOR DRAIN. PROVIDE CRIBS AS REQUIRED FOR LEVEL FLOOR INSTALLATION



1 BUILDING SECTION
 SCALE: 1:100

EXTERIOR WALL TYPES

- (A) TYPICAL EXTERIOR WALL (ALONG ALL OTHER GRIDS)**
 - PREFINISHED METAL CLADDING, AS SPECIFIED
 - 22mm GALVANIZED FURRING CHANNELS @ 600mm O.C. MAX.
 - PROVIDE ENGINEERED SHOP DRAWINGS FOR FASTENING AND CLADDING ATTACHMENT INTO INSULATED METAL PANEL, AS PER INSULATED PANEL MANUFACTURER
 - 100mm PREFINISHED INSULATED FOAM CORE METAL BUILDING PANEL, RSI 5.6 (BUILDING PANEL SUPPLIER TO PROVIDE ALL NECESSARY METAL CLIPS AND ATTACHMENT POINTS AS REQUIRED)
 - COORDINATE STEEL GIRTS FOR LATERAL BRACING AND AT OPENINGS TO SUPPORT INSULATED PANELS, OH DOORS, MANDOORS, AND WINDOWS
 - HORIZONTAL LATERAL GIRTS BY PRE-ENG SUPPLIER TO SUIT WIND LOADING
- (B) RAMMED EARTH PANEL WALL (ALONG THIS GRID)**
 - STRUCTURAL INSULATED RAMMED EARTH WALL PANEL, AS PER RE.1, C/W INSULATED CORE MIN. RSI 3.5.
 - COORDINATE STEEL GIRTS FOR LATERAL BRACING AND AT OPENINGS TO SUPPORT, OH DOORS, MANDOORS, AND WINDOWS
 - PREFINISHED METAL LINER PANEL @ INDUSTRIAL AREAS
- (C) TYPICAL MASONRY VENEER WALL (ALONG GRID "1") - EFFECTIVE 3.08 RSI**
 - MASONRY VENEER/STONE AS SPECIFIED, C/W STAINLESS STEEL TIES
 - 25 mm AIR SPACE
 - 50 mm ROXUL CAVITY ROCK, RSI 1.5
 - SELF-ADHERED BREATHABLE AIR BARRIER MEMBRANE
 - 16 mm EXTERIOR GRADE GYPSUM BOARD
 - 152 mm STEEL STUDS @ 400 mm O.C., HEAVY GAUGE
 - ROXUL COMFORT BATT, RSI 4.23
 - 10 mil POLY VAPOUR BARRIER MEMBRANE
 - PREFINISHED METAL LINER PANEL IN INDUSTRIAL AREAS OR 16mm PAINTED GYPSUM BOARD IN NON-INDUSTRIAL AREAS

INTERIOR WALL TYPES

- (1) PARTITION**
 - 16mm GYPSUM BOARD, PAINTED
 - 152mm STEEL STUDS @ 406mm O.C.
 - 150mm BATT INSULATION
 - 16mm GYPSUM BOARD, PAINTED
- (2) PARTITION**
 - 16mm GYPSUM BOARD, PAINTED
 - 92mm STEEL STUDS @ 406mm O.C.
 - 89mm BATT INSULATION
 - 16mm GYPSUM BOARD, PAINTED
- (3) PARTITION - 1 HOUR FIRE-RATED**
 - 16mm FIRE RATED GYPSUM BOARD, PAINTED
 - 152 STEEL STUDS @ 406mm O.C.
 - 150mm BATT INSULATION
 - 16mm FIRE RATED GYPSUM BOARD, PAINTED
- (4) PARTITION - 0 HOUR RATED**
 - 16mm FIRE RATED GYPSUM BOARD, PAINTED
 - 152 STEEL STUDS @ 406mm O.C.
 - 150mm BATT INSULATION
 - 16mm FIRE RATED GYPSUM BOARD, PAINTED
- (5) PARTITION**
 - PREFINISHED METAL LINER PANEL
 - 16mm PLYWOOD
 - 152 STEEL STUDS @ 406mm O.C.
 - 150mm BATT INSULATION
 - 16mm PLYWOOD
 - PREFINISHED METAL LINER PANEL
- (6) PARTITION**
 - 16mm MOISTURE RESISTANT GYPSUM BOARD, PAINTED (DRYING ROOM SIDE)
 - VAPOUR BARRIER (DRYING ROOM SIDE)
 - 152mm STEEL STUDS @ 406mm O.C.
 - 150mm BATT INSULATION
 - 16mm GYPSUM BOARD, PAINTED
- (7) PARTITION - 1 HOUR FIRE-RATED**
 - 16mm MOISTURE RESISTANT FIRE RATED GYPSUM BOARD, PAINTED (DRYING ROOM SIDE)
 - VAPOUR BARRIER (DRYING ROOM SIDE)
 - 152mm STEEL STUDS @ 406mm O.C.
 - 150mm BATT INSULATION
 - 16mm FIRE RATED GYPSUM BOARD, PAINTED

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 PRINT NAME: _____
 DATE: _____

Revision	Date	No.
		3
		2
		1
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CONSULTANT:

 CONSULTANT:

 CONSULTANT:

PROJECT TITLE:
**AGRONOMY SCIENCES
 AGRONOMY PROCESSING BUILDING
 FORT GARRY CAMPUS - DAFOE ROAD**

SHEET TITLE:
BUILDING SECTION

SCALE: 1:100	DESIGNED: EH
DATE: 2020/01/24	DRAWN: JT
REQUISITION NO. & PROJECT NO. #011C170608-01	SHEET NO. A5.1

Item #	Component	No. of Rooms	Net Area* (ft ²)	Total Net Area * (ft ²)	Net Area* (m ²)	Total Net Area* (m ²)	Function new/exist	Comments
1.0	Sample Receiving							
1.1	Receiving / loading	1	400	400	37.16	37.16	new	
1.2	Pallets / carts storage area	1	200	200	18.58	18.58	new	
	Sub-total			600		55.74		
2.0	Sample Processing + Drying							
2.1	Soil sample processing / weighing / multipurpose	1	800	800	74.32	74.32	exist	
2.2	Drying room - plants	1	4833	5625	448.99	522.56	exist	
2.3	Drying room - soil	1	792		73.58		exist	
2.4	Seed cleaning / processing	1	2880	2880	267.55	267.55	exist	
2.5	Threshing - seed + biomass	2	250	500	23.23	46.45	exist	
2.6	Grinding - plant/soil	4	175	700	16.26	65.03	exist	
	Sub-total			10505		975.91		
3.0	Storage							
3.1	Cool rooms - short + long term	tbd	tbd	1980	183.94	183.94	exist	
3.2	Seed holding - mid term	1	1600	1600	148.64	148.64	exist	
3.3	Soil - mid term	1	1125	1125	104.51	104.51	exist	
3.4	Chemical - pesticides + fertilizers	1	330	330	30.66	30.66	exist	
	Sub-total			5035		467.75		
4.0	Seed treatment							
4.1	Treatment room	1	600	600	55.74	55.74	new	
4.2	Treated seed storage	1	100	100	9.29	9.29	new	
	Sub-total			700		65.03		
5.0	Washing + Biosecurity							
5.1	Washing room	1	150	150	13.94	13.94	new	
5.2	Washing station	tbd	see exterior				new	
5.3	Biosecurity room	1	150	150	13.94	13.94	new	
	Sub-total			300		27.87		
6.0	Support							
6.1	Open office / copy area 230	1	240	240	22.30	22.30	new	
6.2	Clean room 135	1	140	140	13.01	13.01	new	repair and experiment w/cameras & drones
6.3	Lunchroom w/ kitchenette 154	1	160	160	14.86	14.86	new	
6.4	Locker's area	1	40	40	3.72	3.72	new	
6.5	Washrooms - includes showers + changing room	3	50	150	4.65	13.94	new	
6.6	Caretaking	1	40	40	3.72	3.72	new	
	Sub-total			770		71.53		
7.0	Building services							
7.1	Mechanical	1	400	400	37.16	37.16	new	
	Sub-total			400		37.16		
	Total net area			18310		1701.00		
Total Gross Area = nasf x 1.10 for New Agronomy Facility				20141.00		1871.10		

* Note: Areas are clear inside room dimensions.

8.0	Exterior spaces							
8.1	Loading dock	1	tbd				new	
8.2	Overhang/concrete floor-pad	1	tbd				new	around the building, as per project
8.3	Parking - station vehicles	1	tbd				new	cap for 20 units
8.4	Vehicle washing station	1	tbd				new	size tbd
	Sub-total							

Agronomy Processing Facility Functional Program

Soil Science + Plant Science
Faculty of Agricultural and Food Sciences

2.1 Soil sample processing / weighing / multipurpose workroom

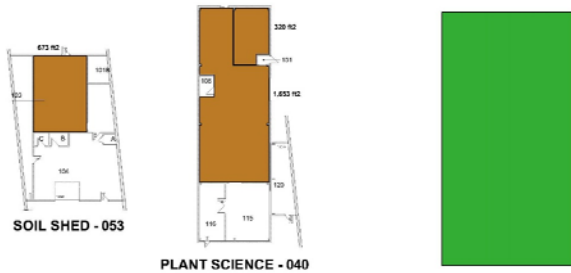
EXISTING = 400 ft² PROGRAM = 800 ft²



Agronomy Processing Facility – August 6, 2019

2.2 Drying room plant sc. 2.3 Drying room soil sc.

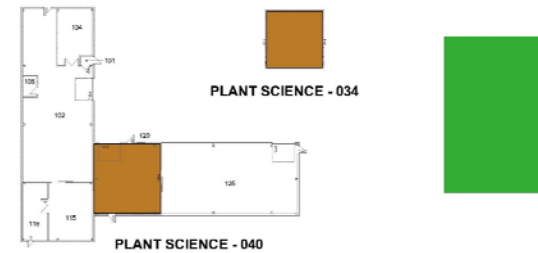
EXISTING = 2,643 ft² PROGRAM = 5,625 ft²



Agronomy Processing Facility – August 6, 2019

2.4 Seed Cleaning / Processing

EXISTING = 1,335 ft² PROGRAM = 2,880 ft²



Agronomy Processing Facility – August 6, 2019

2.5 Threshing

EXISTING = 150 ft² PROGRAM = 500 ft²

threshing done outside & some in processing



SOIL SHED - 053



Agronomy Processing Facility – August 6, 2019

2.6 Grinding- Plant / Soil

EXISTING = 571 ft² PROGRAM = 700 ft²



SOIL SHED - 053

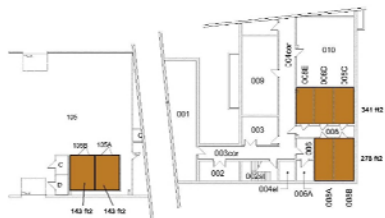
PLANT SCIENCE - 040



Agronomy Processing Facility – August 6, 2019

3.1 Cool rooms – short + long term

EXISTING = 905 ft² PROGRAM = 1,980 ft²



SOIL SHED - 053

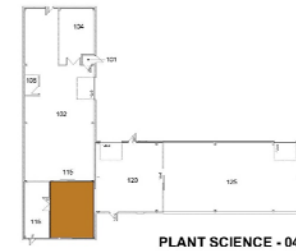
PLANT SCIENCE - 025



Agronomy Processing Facility – August 6, 2019

3.2 Seed holding mid-term

EXISTING = 432 ft² PROGRAM = 1,600 ft²



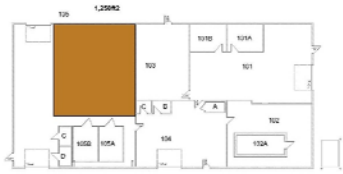
PLANT SCIENCE - 040



Agronomy Processing Facility – August 6, 2019

3.3 Soil mid-term storage

EXISTING = 1,250 ft² PROGRAM = 1,125 ft²

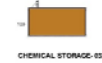


SOIL SHED - 053

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3.4 Chemical storage

EXISTING = 330 ft² PROGRAM = 330 ft²



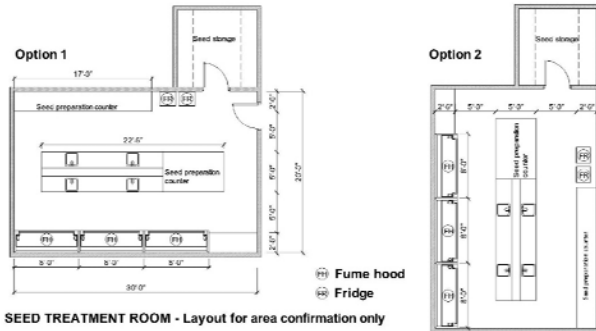
CHEMICAL STORAGE-033



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4.1-2 Seed treatment + storage

NEW PROGRAM = 600 ft² + 100 ft²



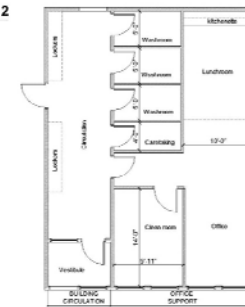
SEED TREATMENT ROOM - Layout for area confirmation only

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6.0 Office Support

NEW PROGRAM = 770 ft²

OFFICE SUPPORT -
Layout for area confirmation only



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