

Technical Document BA24006



Part 2 – Technical Requirements

Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

NRCB USE ONLY	Application number	Legal land description
<input checked="" type="checkbox"/> Approval <input type="checkbox"/> Registration <input type="checkbox"/> Authorization <input type="checkbox"/> Amendment	<u>BA24006</u>	<u>NW 11-59-21 W4</u>

APPLICATION DISCLOSURE

This information is collected under the authority of the *Agricultural Operation Practices Act (AOPA)*, and is subject to the provisions of the *Freedom of Information and Protection of Privacy Act*. This information is public unless the NRCB grants a written request that certain sections remain private.

Any construction prior to obtaining an NRCB permit is an offence and is subject to enforcement action, including prosecution.

I, the applicant, or applicant's agent, have read and understand the statements above, and I acknowledge that the information provided in this application is true to the best of my knowledge.

July 17 2024
 Date of signing
Hutterian Brethren Church of Scotland
 Corporate name (if applicable)

Signature
Daniel Hofer
 Print name

GENERAL INFORMATION REQUIREMENTS

Proposed facilities: list all proposed confined feeding operation facilities and their dimensions. Indicate whether any of the proposed facilities are additions to existing facilities. (attach additional pages if needed)

Proposed facilities	Dimensions (m) (length, width, and depth)
<u>Layr Barn w/ manure pad.</u>	<u>500' x 80'</u>
<u>66' office/control/ cooler - 32 Manure storage</u>	152 m x 24 m total manure pad (9 m x 24 m)
<u>2 Broiler Barns. w yacks.</u>	<u>450' x 75' x (2)</u>
<u>30' x 50' office/control room.</u>	137 m x 23 m total (manure pads 6 m x 23 m)

Existing facilities: list ALL existing confined feeding operation facilities and their dimensions

Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY

NRCB USE ONLY	New CFO
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Part 2 – Technical Requirements

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If a new facility is replacing an old facility, please explain what will happen to the old facility and when. N/A

New CFO

Construction completion date for proposed facilities *End of 2027.*

Additional information

Livestock numbers: Complete only if livestock numbers are different from what was identified in the Part 1 application. Note: if livestock numbers increase in your Part 2 application, a new Part 1 application must be submitted which may result in a loss of priority for minimum distance separation (MDS).

Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	Permitted number	Proposed increase or decrease in number (if applicable)	Total
<i>Lays.</i>			<i>30,000</i>
<i>Pullets</i>			<i>25,000</i>
<i>Broilers</i>			<i>100,000</i>
<i>Turkeys</i> <i>Toms.</i>			<i>500</i>
<i>Ducks</i>			<i>2000</i>
<i>Geese</i>			<i>500</i>

Part 2 – Technical Requirements

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DECLARATION AND ACKNOWLEDGMENT OF APPLICANT CONCERNING WATER ACT LICENCE

issued by Alberta Environment and Protected Areas (EPA) for a confined feeding operation (CFO)

Date and sign one of the following four options

OPTION 1: Applying through the NRCB for both the AOPA permit and the Water Act licence

I **DO** want my water licence application coupled to my AOPA permit application.

Signed this ____ day of _____, 20____.

Signature of Applicant or Agent

OPTION 2: Processing the AOPA permit and Water Act licence separately

1. I (we) acknowledge that the CFO will need a new water licence from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
2. I (we) request that the NRCB process the AOPA application **independently of** EPA's processing of the CFO's application for a water licence.
3. In making this request, I (we) recognize that, if this AOPA application is granted by the NRCB, the NRCB's decision will not be considered by EPA as improving or enhancing the CFO's eligibility for a water licence under the *Water Act*.
4. I (we) acknowledge that any construction or actions to populate the CFO with livestock pursuant to an AOPA permit in the absence of a *Water Act* licence will **not** be relevant to EPA's consideration of whether to grant the *Water Act* licence application.
5. I (we) acknowledge that any such construction or livestock populating will be at the CFO's sole risk if the *Water Act* licence application is denied or if the operation of the CFO is otherwise deemed to be in violation of the *Water Act*. This risk includes being required to depopulate the CFO and/or to cease further construction, or to remove "works" or "undertakings" (as defined in the *Water Act*).
6. **AS RELEVANT:** I (we) acknowledge that the CFO is located in the South Saskatchewan River Basin and that, pursuant to the *Bow, Oldman and South Saskatchewan River Basin Water Allocation Order* [Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations.
7. **Provide:** Water licence application number(s) _____

Signed this 17 day of July, 2024.

Signature of Applicant or Agent

OPTION 3: Additional water licence not required

1. I (we) declare that the CFO will not need a new licence from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
2. **Provide:** Water license number(s) or water conveyance agreement details _____

Signed this ____ day of _____, 20____.

Signature of Applicant or Agent

Part 2 – Technical Requirements

Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

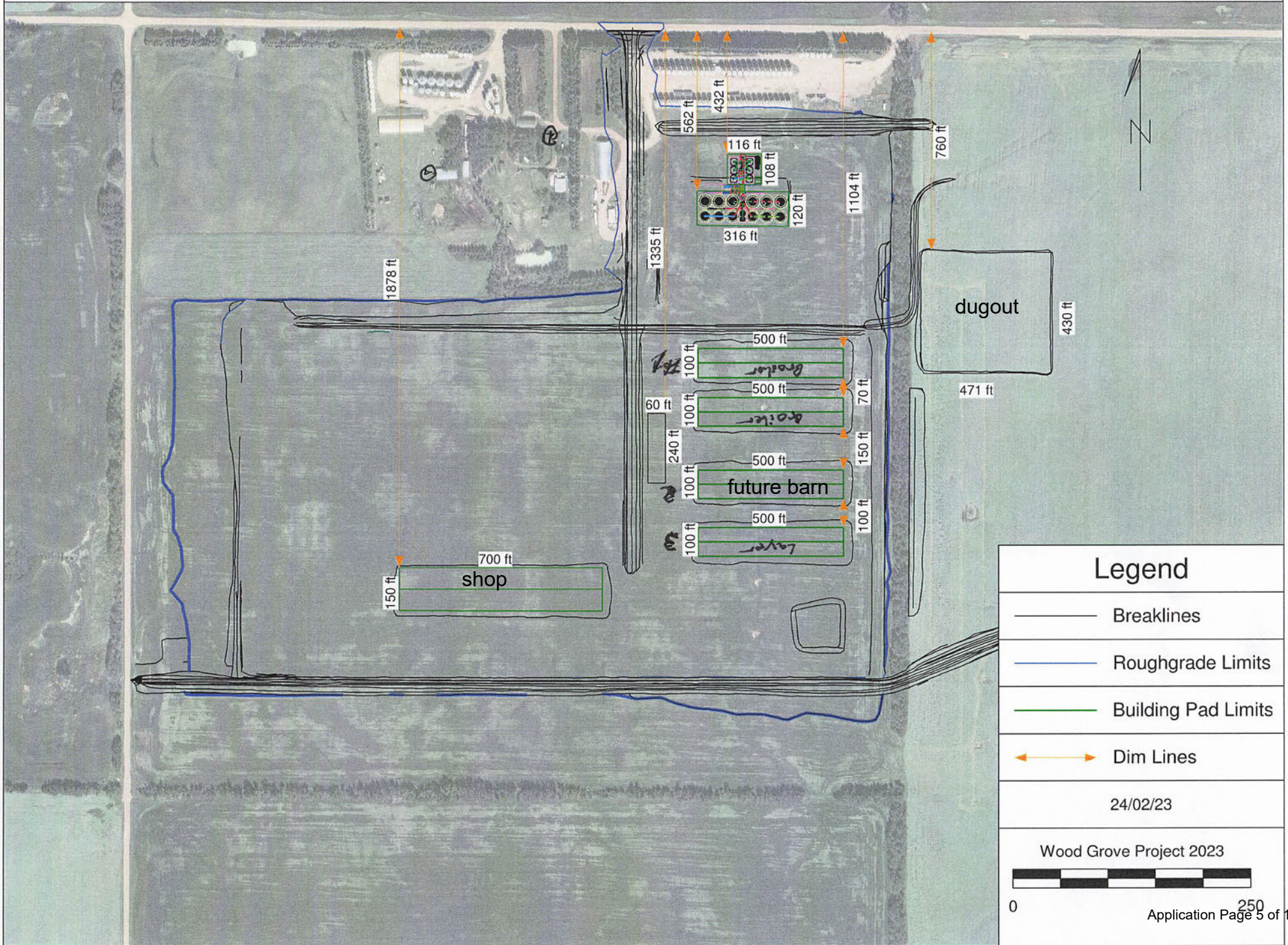
OPTION 4: Uncertain if *Water Act* licence is needed; acknowledgement of risk (for existing CFOs only)

1. At this time, I (we) do not know whether a new water licence is needed from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
2. If a new *Water Act* licence is needed, I (we) request that the NRCB process the AOPA application **independently of** EPA's processing of the CFO's application for a water licence.
3. In making this request, I (we) recognize that, if this AOPA application is granted by the NRCB, the NRCB's decision will not be considered by EPA as improving or enhancing the CFO's eligibility for a water licence under the *Water Act*.
4. I (we) acknowledge that any construction or actions to populate the CFO with additional livestock pursuant to an AOPA permit in the absence of a *Water Act* licence will **not** be relevant to EPA's consideration of whether to grant my *Water Act* licence application, if a new water licence is needed.
5. I (we) acknowledge that any such construction or livestock increase will be at the CFO's sole risk if the *Water Act* licence application is denied or if the operation of the CFO is otherwise deemed to be in violation of the *Water Act*. This risk includes being required to depopulate the CFO and/or to cease further construction, or to remove "works" or "undertakings" (as defined in the *Water Act*).
6. **AS RELEVANT:** I (we) acknowledge that the CFO is located in the South Saskatchewan River Basin and that, pursuant to the *Bow, Oldman and South Saskatchewan River Basin Water Allocation Order* [Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations.
7. **Provide:** Water license number(s) or water conveyance agreement details _____



Signed this ____ day of _____, 20____.

Signature of Applicant or Agent

Wood Grove - 2023 Earthworks Layout and Site Map



Legend

-  Breaklines
-  Roughgrade Limits
-  Building Pad Limits
-  Dim Lines

24/02/23

Wood Grove Project 2023



Part 2 – Technical Requirements

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GENERAL ENVIRONMENTAL INFORMATION

(complete this section for the worst case of the existing facility which is the closest to water bodies or water wells and for each of the proposed facilities)

Facility description / name (as indicated on site plan)

Existing: None

Proposed 1: Slough

Proposed 2: Brailin

Proposed 3: Brailin

Facility and environmental risk information		Facilities				NRCB USE ONLY	
		Existing	Proposed 1	Proposed 2	Proposed 3	Meets requirements	Comments
Flood plain information	What is the elevation of the floor of the lowest manure storage or collection facility above the 1:25 year flood plain or the highest known flood level?	<input checked="" type="checkbox"/> >1 m <input type="checkbox"/> ≤ 1 m	<input checked="" type="checkbox"/> >1 m <input type="checkbox"/> ≤ 1 m	<input checked="" type="checkbox"/> >1 m <input type="checkbox"/> ≤ 1 m	<input checked="" type="checkbox"/> > 1 m <input type="checkbox"/> ≤ 1 m	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Not in flood plain
	Surface water information						
	How many springs are within 100 m of the manure storage facility or manure collection area?		0	0	0	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	None known
	How many water wells are within 100 m of the manure storage facility or manure collection area?		0	0	0	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	None within 100 m
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)		600	600	600	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Slough 544 m West
Groundwater information	What is the depth to the water table?		3-4 m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Confirmed
	What is the depth to the groundwater resource/aquifer you draw water from?		comes from Well.			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	28.96 ID 209951

Additional information (attach supporting information, e.g. borehole logs, records, etc. you consider relevant to your application)

Part 2 – Technical Requirements

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NRCB USE ONLY
ENVIRONMENTAL RISK SCREENING INFORMATION

ERST for proposed facilities

Facility	Groundwater score	Surface water score	File number
See Decision Summary BA24006			

ERST for existing facilities

Facility	Groundwater score	Surface water score	File number
N/A			

ERST related comments:

Part 2 – Technical Requirements

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NRCB USE ONLY

WATER WELL AND SURFACE WATER INFORMATION

Well IDs: ID 209951 _____
 ID 209952 _____

Surface water related concerns from directly affected parties or referral agencies: YES NO

Groundwater related concerns from directly affected parties or referral agencies: YES NO

Water wells N/A

If applicable, exemption for 100 m distance requirements applied: YES NO Condition required: YES NO

Surface water N/A

If applicable, exemption for 30 m distance requirements applied: YES NO Condition required: YES NO

Water Well Exemption Screening Tool N/A

Water Well ID	Preliminary Screening Score	Secondary Screening Score	Facility

Groundwater or surface water related comments:



Water Well Drilling Report

[View in Imperial](#) [Export to Excel](#)

GIC Well ID 209952
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1988/10/26

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GOWN ID

Well Identification and Location										Measurement in Metric	
Owner Name	Address				Town	Province	Country				Postal Code
MOFFITT, HAROLD	P.O. BOX 221 RADWAY										
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	NW	11	59	21	4						
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation _____ m	
_____ m from					Latitude <u>54.089628</u> Longitude <u>-113.044582</u>					How Elevation Obtained	
_____ m from					How Location Obtained					Not Obtained	
					Map						

Drilling Information	
Method of Drilling Rotary	Type of Work New Well
Proposed Well Use Stock	

Formation Log			Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description	
3.96		Brown Clay	
5.18		Brown Sand	
10.36		Gray Clay	
13.11		Brown Clay	
13.41		Brown Sand	
15.54		Brown Sand	
29.57		Gray Clay	
29.87		Sandstone	
35.97		Shale	
36.27		Coal	
48.77		Shale	
49.07		Sandstone	
78.03		Shale	
78.64		Hard Sandstone	
82.30		Sandy Shale	
82.91		Sandstone	
83.52		Soft Sandstone	
84.12		Hard Sandstone	
88.09		Soft Sandstone	
91.44		Shale	

Yield Test Summary			Measurement in Metric
Recommended Pump Rate	<u>27.28 L/min</u>		
Test Date	Water Removal Rate (L/min)	Static Water Level (m)	
1988/10/18	36.37	18.29	
Well Completion			Measurement in Metric
Total Depth Drilled	Finished Well Depth	Start Date	End Date
91.44 m		1988/10/14	1988/10/18
Borehole			
Diameter (cm)	From (m)	To (m)	
0.00	0.00	91.44	
Surface Casing (if applicable)		Well Casing/Liner	
		Plastic	
Size OD :	<u>0.00 cm</u>	Size OD :	<u>14.12 cm</u>
Wall Thickness :	<u>0.000 cm</u>	Wall Thickness :	<u>0.953 cm</u>
Bottom at :	<u>0.00 m</u>	Top at :	<u>0.00 m</u>
		Bottom at : <u>91.44 m</u>	
Perforations			
From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (cm) / Hole or Slot Interval(cm)
77.72	89.92	0.318	10.16
Perforated by Other			
Annular Seal Cement/Grout			
Placed from <u>0.00 m</u> to <u>60.96 m</u>			
Amount _____			
Other Seals			
Type		At (m)	
Screen Type			
Size OD : <u>0.00 cm</u>			
From (m)	To (m)	Slot Size (cm)	
Attachment _____			
Top Fittings _____		Bottom Fittings _____	
Pack			
Type <u>Artificial</u>		Grain Size <u>SIL-9</u>	
Amount <u>0.75 Yards</u>			

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name AMA DRILLING/DIVISION OF HILL & PARSONS WATER WELLS LTD.	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

View in Imperial **Export to Excel**

GIC Well ID 209952
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1988/10/26

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GOWN ID

Well Identification and Location										Measurement in Metric		
Owner Name		Address			Town		Province		Country		Postal Code	
MOFFITT, HAROLD		P.O. BOX 221 RADWAY										
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description			
	NW	11	59	21	4							
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation _____ m		
_____ m from					Latitude <u>54.089628</u> Longitude <u>-113.044582</u>					How Elevation Obtained		
_____ m from					How Location Obtained					Not Obtained		
					Map							

Additional Information										Measurement in Metric	
Distance From Top of Casing to Ground Level _____ cm											
Is Artesian Flow _____					Is Flow Control Installed _____						
Rate _____ L/min					Describe _____						
Recommended Pump Rate _____ 27.28 L/min					Pump Installed <u>Yes</u> Depth _____ m						
Recommended Pump Intake Depth (From TOC) _____ 72.24 m					Type <u>SUB</u> Make <u>JACUZZI</u> H.P. <u>1</u>						
					Model (Output Rating) _____						
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ m Well Disinfected Upon Completion _____						
Gas _____					Depth _____ m Geophysical Log Taken _____						
Remedial Action Taker: _____					Submitted to ESRD _____						
					Sample Collected for Potability _____					Submitted to ESRD _____	
Additional Comments on Well											

Yield Test				Taken From Ground Level		Measurement in Metric	
Test Date	Start Time	Static Water Level		Depth to water level			
1988/10/18	12:00 AM	18.29 m					
			Pumping (m)	Elapsed Time	Recovery (m)		
				Minutes:Sec			
Method of Water Removal							
Type <u>Bailer & Pump</u>							
Removal Rate _____ 36.37 L/min							
Depth Withdrawn From _____ 71.63 m							
If water removal period was < 2 hours, explain why							

Water Diverted for Drilling		
Water Source	Amount Taken	Diversion Date & Time
	L	

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name AMA DRILLING/DIVISION OF HILL & PARSONS WATER WELLS LTD.	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

[View in Imperial](#) [Export to Excel](#)

GIC Well ID 209951
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1983/06/16

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GOWN ID

Well Identification and Location										Measurement in Metric		
Owner Name		Address			Town		Province		Country		Postal Code	
MOFFITT, HAROLD		P.O. BOX 221 RADWAY									T0A 2V0	
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description			
	NW	11	59	21	4							
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation _____ m		
_____ m from					Latitude <u>54.089628</u> Longitude <u>-113.044582</u>					How Elevation Obtained		
_____ m from					How Location Obtained					Not Obtained		
					Map							

Drilling Information	
Method of Drilling Cable Tool	Type of Work New Well
Proposed Well Use Domestic & Stock	

Formation Log			Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description	
7.62		Brown Clay & Boulders	
13.72		Brown Sandy Clay	
20.73		Gray Clay	
28.04		Black Clay	
28.96		Gray Clay	
29.26		Sandstone	
29.57		Sandy Clay & Coal	
32.00		Gray Shale	
33.53		Sandy Shale	
35.05		Gray Shale	

Yield Test Summary			Measurement in Metric
Recommended Pump Rate	_____ 0.00 L/min		
Test Date	Water Removal Rate (L/min)	Static Water Level (m)	
1983/03/29	45.46	12.19	

Well Completion				Measurement in Metric
Total Depth Drilled	Finished Well Depth	Start Date	End Date	
35.05 m		1983/03/28	1983/03/29	
Borehole				
Diameter (cm)	From (m)	To (m)		
0.00	0.00	35.05		
Surface Casing (if applicable)		Well Casing/Liner		
Steel		Steel		
Size OD : _____	17.78 cm	Size OD : _____		
Wall Thickness : _____	0.587 cm	Wall Thickness : _____		
Bottom at : _____	30.48 m	Top at : _____		
		Bottom at : _____		
Perforations				
From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (cm)	Hole or Slot Interval (cm)
30.48	33.53	0.635		15.24
Perforated by Torch				
Annular Seal Driven				
Placed from _____ 0.00 m to _____ 30.48 m				
Amount _____				
Other Seals				
Type _____ At (m) _____				
Screen Type				
Size OD : _____ 0.00 cm				
From (m) _____ To (m) _____ Slot Size (cm) _____				
Attachment _____				
Top Fittings _____ Bottom Fittings _____				
Pack				
Type _____ Grain Size _____				
Amount _____ 0.00				

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name PARSONS BROS. WATER WELLS	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

View in Imperial Export to Excel

GIC Well ID 209951
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1983/06/16

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GOWN ID

Well Identification and Location										Measurement in Metric	
Owner Name		Address			Town		Province		Country		Postal Code
MOFFITT, HAROLD		P.O. BOX 221 RADWAY									T0A 2V0
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	NW	11	59	21	4						
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation _____ m	
_____ m from					Latitude <u>54.089628</u> Longitude <u>-113.044582</u>					How Elevation Obtained	
_____ m from					How Location Obtained					Not Obtained	
					Map						

Additional Information										Measurement in Metric	
Distance From Top of Casing to Ground Level _____ cm											
Is Artesian Flow _____					Is Flow Control Installed _____						
Rate _____ L/min					Describe _____						
Recommended Pump Rate _____ 0.00 L/min					Pump Installed _____		Depth _____ m				
Recommended Pump Intake Depth (From TOC) _____ 0.00 m					Type _____		Make _____		H.P. _____		
										Model (Output Rating) _____	
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ m		Well Disinfected Upon Completion _____				
Gas _____					Depth _____ m		Geophysical Log Taken _____				
Remedial Action Taken.					Submitted to ESRD						
Additional Comments on Well					Sample Collected for Potability _____					Submitted to ESRD <u>Yes</u>	
DRILLER REPORTS MEDIUM HARD WATER											

Yield Test				Taken From Ground Level	Measurement in Metric
				Depth to water level	
Test Date	Start Time	Static Water Level		Pumping (m)	Recovery (m)
1983/03/29	12:00 AM	12.19 m			
Method of Water Removal					
Type <u>Bailer</u>					
Removal Rate <u>45.46 L/min</u>					
Depth Withdrawn From <u>27.43 m</u>					
If water removal period was < 2 hours, explain why					

Water Diverted for Drilling		
Water Source	Amount Taken	Diversion Date & Time
	L	

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well	Certification No
UNKNOWN NA DRILLER	1
Company Name	Copy of Well report provided to owner Date approval holder signed
PARSONS BROS. WATER WELLS	

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DISTANCE OF ANY MANURE STORAGE FACILITY (EXISTING OR PROPOSED) TO NEIGHBOURING RESIDENCES

Neighbour name(s)	Legal land description	Distance (m)	NRCB USE ONLY				
			Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations
① Raymond Moffitt	SE 14-59-21 W4		AG	Cat 1	852 m	N/A	Yes
② Danny Tronchuck.	SW 14-59-21 W4		AG	Cat 1	1095 m		Yes

LAND BASE FOR MANURE AND COMPOST APPLICATION (complete only if an increase in livestock or manure production will occur)

Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	NRCB USE ONLY	
				Usable area (ha)	Agreement attached (if required)
Scotford	11-59-21-W4	240	Black.	228 ha	
Scotford	SE 10-59-21 W4	64 ha			
Scotford	NE 3-59-21 W4	64 ha		119 ha total for	Se 10 & NE 3
			Total	347 ha	

Applicant owns adequate land base can provided several more quarters.

* If you are **not** the registered landowner, you must attach copies of land use agreements signed by all landowners.

** Available manure spreading area (excluding setback areas from residences, common bodies of water, water wells, etc. as identified in Agdex 096-5 Manure Spreading Regulations)

*** Brown, dark brown, black, grey wooded, or irrigated

Additional information (attach any additional information as required)



New CFO

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NRCB USE ONLY

MINIMUM DISTANCE SEPARATION

Methods used to determine distance (if applicable): Google earth

Margin of error (if applicable): N/A

Requirements (m): Category 1: 447 m Category 2: 597 m Category 3: 746 m Category 4: 1193 m

Technology factor: YES NO

Expansion factor: YES NO

MDS related concerns from directly affected parties or referral agencies: YES NO

LAND BASE FOR MANURE AND COMPOST APPLICATION

Land base required: 332 ha

Land base listed: 368 ha

Area not suitable: 21 ha

Available area 347 ha

Requirement met: YES NO

Land spreading agreements required: YES NO

Manure management plan: YES NO

If yes, plan is attached:

PLANS

Submitted and attached construction plans: YES NO

Submitted aerial photos: YES NO

Submitted photos: YES NO

GRANDFATHERING

Already completed: YES NO N/A

If already completed, see _____

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NRCB USE ONLY

ALL SIGNATURES IN FILE

YES NO

DATES OF APPROVAL OFFICER SITE VISITS

July 17, 2024	
September 12, 2024	

CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: July 31, 2024

Municipality: Thorhild County

letter sent response received written/email verbal no comments received

Alberta Health Services: N/A

letter sent response received written/email verbal no comments received

Alberta Environment and Parks: N/A

letter sent response received written/email verbal no comments received

Alberta Transportation: N/A

letter sent response received written/email verbal no comments received

Alberta Regulatory Services: N/A

letter sent response received written/email verbal no comments received

Other: _____ N/A

letter sent response received written/email verbal no comments received

Other: _____ N/A

letter sent response received written/email verbal no comments received

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SOLID MANURE, COMPOST, & COMPOSTING MATERIALS: Barns, feedlots, & storage facilities - Concrete liner

(complete a copy of this section for **EACH** barn, feedlot, and storage facility for solid manure, composting materials, or compost with a concrete liner)

Facility description / name (as indicated on site plan) 1. Layur
 2. Broiler

Manure storage capacity

	Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m ³)
1.	500 152 m	80 24 m	0	
x2. 2.	450 137 m	75 23 m	0	
TOTAL CAPACITY				Sufficient storage

I plan to use a short-term solid manure storage (STMS) as part of my manure storage and handling plan for this CFO. The AOPA requirements for STMS are set out in the NRCB [Short-Term Solid Manure Storage Requirements Fact Sheet](#).

Surface water control systems

Describe the run-on and runoff control system
Under roof / covered Building control runoff.

Liner protection

Describe how the physical integrity of the liner will be maintained
Monitor for cracks

NRCB USE ONLY
 Requirements met: YES NO

Part 2 – Technical Requirements



Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area and/or manure storage facility(ies)

SOLID MANURE, COMPOST, & COMPOSTING MATERIALS: Barns, feedlots, & storage facilities - Concrete liner (cont.)

Concrete liner details

Concrete thickness 6"	Method of sulphate protection: T50 or similar
Concrete strength 25 MPA.	Concrete reinforcement size and spacing Rebar 12" o/c.

Concrete requirements can be found in Technical Guideline Agdex 096-93

Guideline minimums:
 Solid manure: 25MPa (D)
 Solid manure (wet): 30MPa (C)
 Method of sulphate protection:
 Type 50 or Type 10 with fly ash or equivalent

NRCB USE ONLY

Requirements met: YES NO
 Condition required: YES NO
 Report attached: YES NO

Additional information *(attach as required)*

NRCB USE ONLY

Nine month manure storage volume requirements met YES YES With STMS NO

Depth to water table: >3 m Requirements met: YES NO

Depth to Uppermost groundwater resource: 28.96 m Requirements met: YES NO

ERST completed: see ERST page for details

Surface water control systems

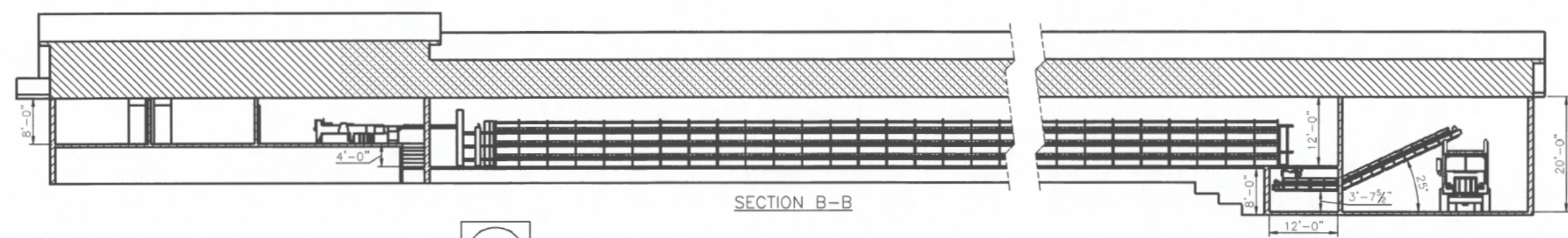
Requirements met: YES NO Details/comments:

Under roof barns and layer manure pad, broiler barn manure pads are not under roof and will have barricades placed around them for control.

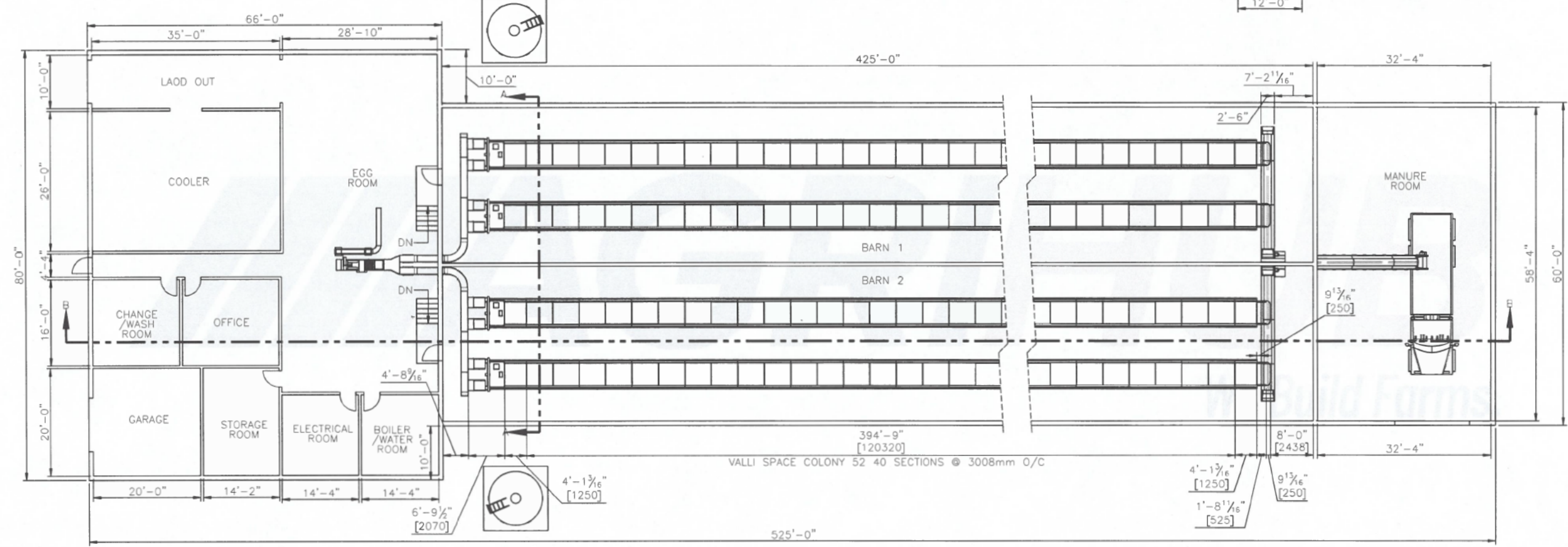
Concrete liner details

25 MPA for under roof portions, 30 MPA for broiler barn pads.
 Applicant to provide documentation confirming type and strength.

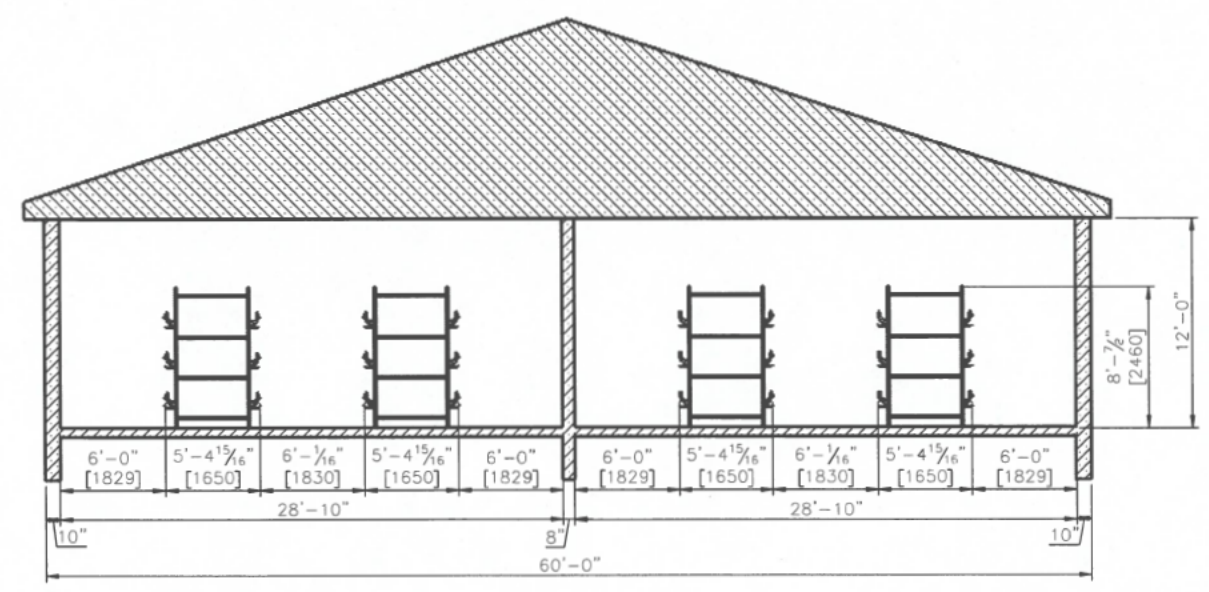
Leakage detection system required: YES NO If yes, please explain why.



SECTION B-B

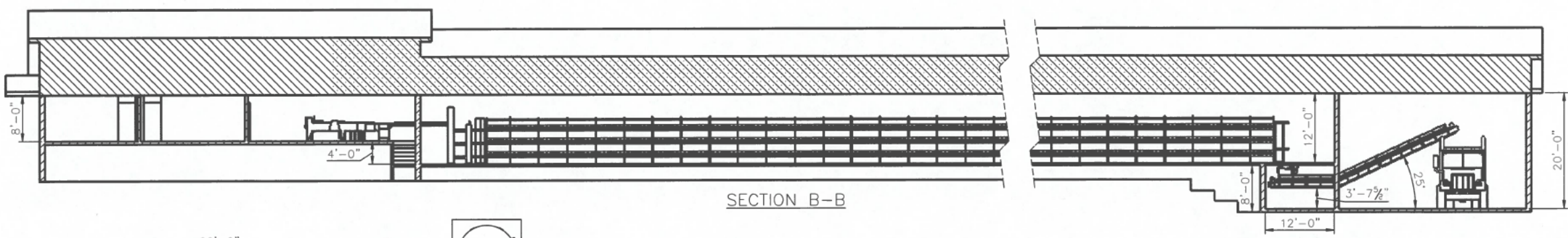


PLAN VIEW

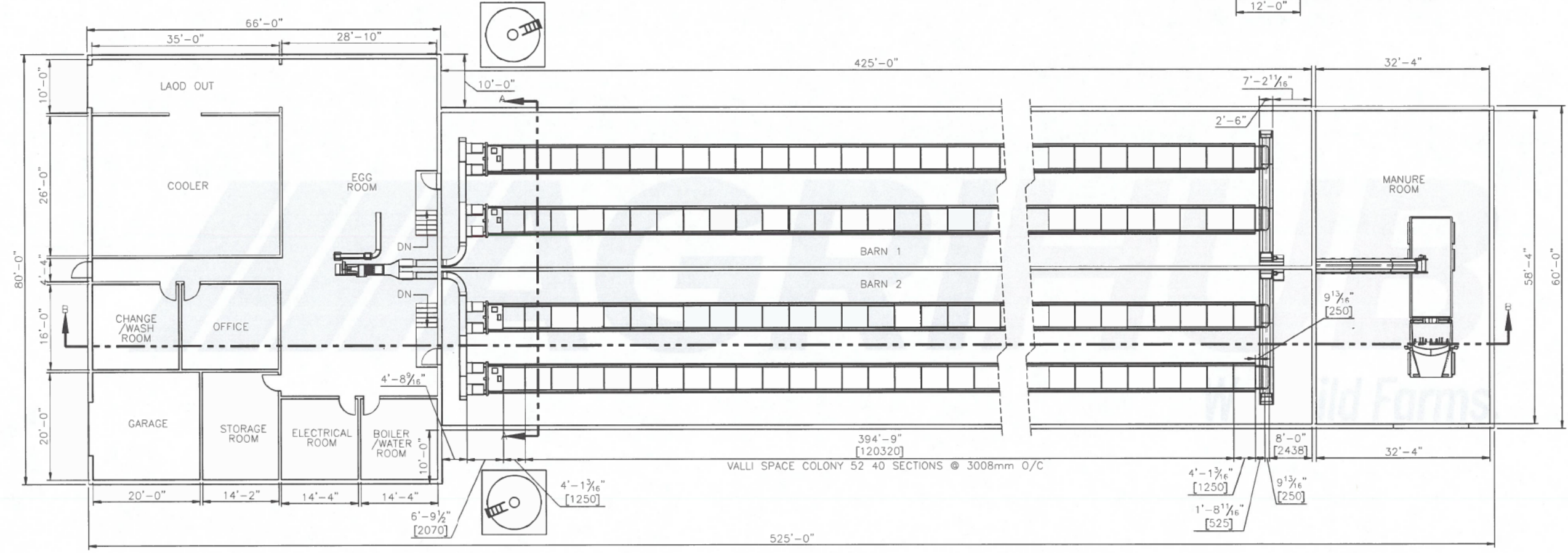


SECTION A-A
SCALE: 1:64

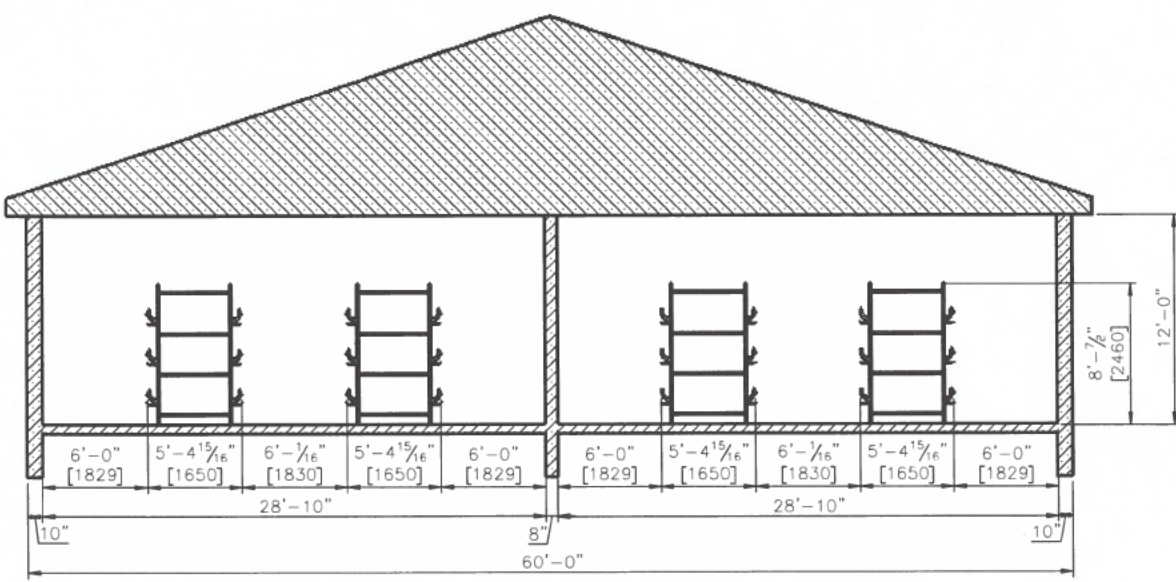
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	#1	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> <th>CHK</th> <th>APPD</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>11/13/23</td> <td>ISSUED FOR REVIEW</td> <td>DJB</td> <td>TT</td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REV	DATE	DESCRIPTION	BY	CHK	APPD	A	11/13/23	ISSUED FOR REVIEW	DJB	TT																																																								64-27211 HWY. 12 LACOMBE, AB T4J 0E3 TOLL FREE: 1-866-339-0000 PH: 1-403-782-0675	DRAWING TITLE: LAYER BARN - PLAN VIEW & SECTIONS
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				DRAWING NO. A1 SHEET: 1 OF 1 REVISION: A																																																																		



SECTION B-B



PLAN VIEW



SECTION A-A
SCALE: 1:64

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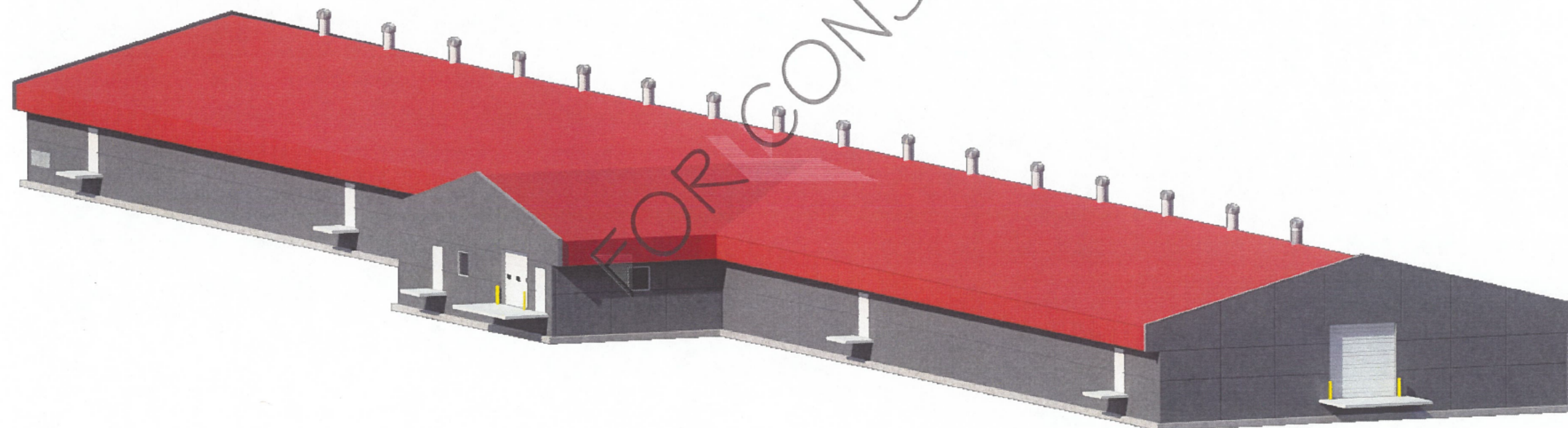
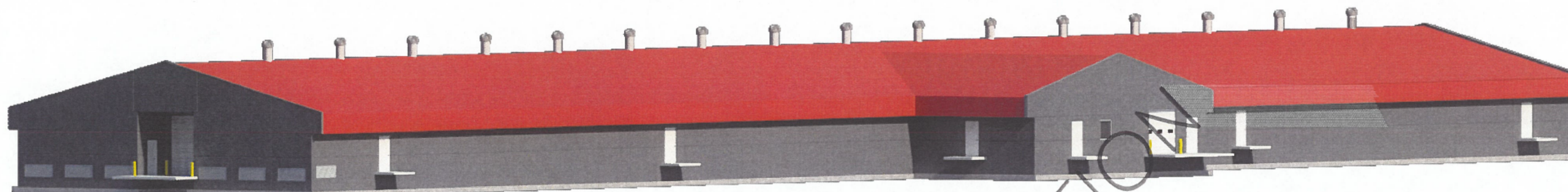
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SCALE: 1:128	DATE: NOV/13/2023	DRAWING NO. A1
DW1: DJB	CHK: TT	PER/ISION A
JOB NO.:	SHEET: 1 OF 1	



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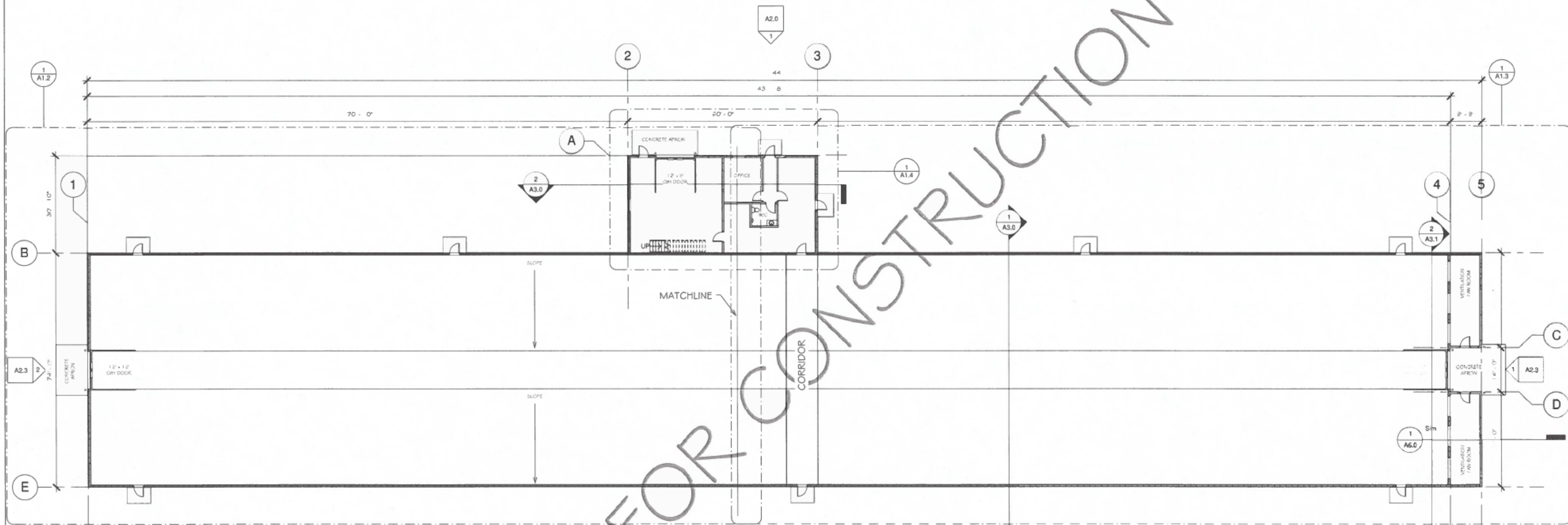
No.	Description	Date
1	ISSUED FOR PERMITS	2016 09 14
2	ISSUED FOR CONSTRUCTION	2016 11 01

Copperfield Colony
Broiler Barn
Renderings

Project number 15-071
Date 2016 10 31
Drawn by KWB
Checked by

A0.1
Scale

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FOR CONSTRUCTION

No.	Description	Date

**Copperfield Colony
Broiler Barn
Main Floor Plan**

Project number	15-071
Date	2016 10 31
Drawn by	KWB
Checked by	
A1.1	
Scale	1/16" = 1'-0"

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