

City of Humboldt February 12, 2024 - Special Council Meeting - 05:30 PM

- 1 Call To Order
- 2 Adopt Agenda
- 2.1 Conflict of Interest
- 3 Public Hearing Discretionary Use Application
- 3.1 Suspend Council Meeting
- 3.2 Public Hearing Discretionary Use Fertilizer Blending & Storage Facility 10564 8th Ave

Report - Discretionary Use - Fertilizer Blending & Storage Facility - 10564 8th Ave Resume Meeting

3.3 Resume Meeting

4 New Business

4.1 Recommendation - Community Development Coordinator - Discretionary Use Application - Fertilizer Blending & Storage Facility - 10564 8th Ave

> Report - Discretionary Use Application - Fertilizer Blending & Storage Facility -10564 8th Ave

5 Adjourn



Heart of it All

CITY OF HUMBOLDT REPORT

TITLE:	Public Hearing – Discretionary Use – Fertilizer Blending and Storage Facility – 10564 8 th Ave
PREPARED BY:	Donna Simpson, Acting City Clerk
REVIEWED BY:	Joe Day, City Manager
PREPARED FOR:	City Council
DATE:	February 12 th , 2024

RECOMMENDATION:

That this report be accepted for information and filed.

BACKGROUND

The City of Humboldt has received a discretionary use application from The Humboldt Cooperative Association to operate a *Fertilizer Blending and Storage Facility* at 10564 8th Ave; legally described as Block X Plan 101861197.

CURRENT SITUATION

The facility has been classified as a Heavy Industrial Use which is considered a discretionary use in a C3 Zoning District within the City's Zoning Bylaw 04/2016. In accordance with Section 24 (1)(c) of the Planning and Development Act, 2007, an approving authority may follow its public notice policy respecting any matters relating to an application for discretionary use pursuant to Section 55.

COMMUNCATION AND ENGAGEMENT

The Notice was posted at City Hall, the City's web site, and social media platforms for ten clear days prior to the Special Council meeting on February 12th, 2024 at which Council will initially consider the matter. The landowners within 75 meters of the application were notified of the public hearing. Those wishing to submit their comments on this matter must have made their submission to the City Clerk by noon on Thursday, February 8th, 2024.

FINANCIAL IMPLICATION

There is no anticipated financial impact of the recommended action.





CONCLUSION

The City Clerk did not receive any written submission or requests to address Council in regard to this discretionary use application.





CITY OF HUMBOLDT REPORT

TITLE:	Discretionary Use Report – Fertilizer Blending and Storage Facility – 10564 8 th Ave.
PREPARED BY:	Tanner Zimmerman, Community Development Coordinator
REVIEWED BY:	Joe Day, City Manager
PREPARED FOR:	Special Council Meeting
DATE:	February 12, 2024

RECOMMENDATION

That a discretionary use is approved for a fertilizer blending and storage facility located at 10564 8th Ave, legally described as Block X, Plan 101861197.

BACKGROUND

The City of Humboldt has received a discretionary use application from The Humboldt Co-Operative Association to operate a fertilizer blending and storage facility. The property currently houses the Co-Op Agro facility along with a cardlock facility and a storage facility that received a building permit in 2023.

S.3.10.3 of the Zoning Bylaw requires that a Discretionary Use be reviewed using the following evaluation criteria:

- i) Conformance with the Official Community Plan and applicable sections of the Zoning Bylaw;
- ii) Serviceability by community infrastructure including roadways, water & sewer services, etc.;
- iii) The potential effect of noise, odour, dust, lighting, glare, vibrations, emissions, hazardous substances, etc. to the health, safety, convenience or general welfare of persons residing or working within the vicinity or injurious effects to property, or potential development in the vicinity of the project;
- iv) Landscaping and screening, and, wherever applicable, the preservation existing vegetation;
- Potential traffic generation by the use, and the ability for existing roadways to accommodate for the use, as well as the adequate provision of parking accommodations;





- vi) Presence of activities located in the area and on the site, and effects to the surrounding urban environment.
- vii) Pedestrian safety and convenience both within the site, and in terms of the relationship to the road network in and around the adjoining area;
- viii) All operations shall comply with all regulations of Saskatchewan Environment and Saskatchewan Labour which govern their operation and development; and
- ix) Traffic entrances and exits to or from major roadways and truck routes.

CURRENT SITUATION

Fertilizer blending operations are not specifically named and listed within any of the "use categories" in the City's zoning Bylaw. In other words, The City's Zoning Bylaw does not identify fertilizer blending plants as specifically permitted, prohibited or discretionary within any area of the City. As such, administration has deemed fertilizer blending to fall within the definition of Heavy Industrial Use under the general description of heavy industrial uses that include: **the processing of raw or finished materials**. The property is currently Zoned C3 (Commercial/Industrial Mixed Use District) which identifies Heavy Industrial Uses as discretionary.

It is in administration's opinion that the lot, and the uses surrounding it, would not be negatively affected by the proposed use.

OPTIONS

- Approve the recommendation as presented.
- Refer the matter back to administration for further review.

ATTACHMENTS

- A. Map of property showing all properties within 75m.
- B. Site and Construction Plans included with Building Permit Application.

COMMUNCATION AND ENGAGEMENT

As is required in Planning and Development Act, 2007, Public Notice was given ten full days prior to the Special Council Meeting. All owners of property within 75m of 10564 8th Ave were sent letters. Additionally, Public Notice documents were posted at City Hall and on the City's website.

FINANCIAL IMPLICATION

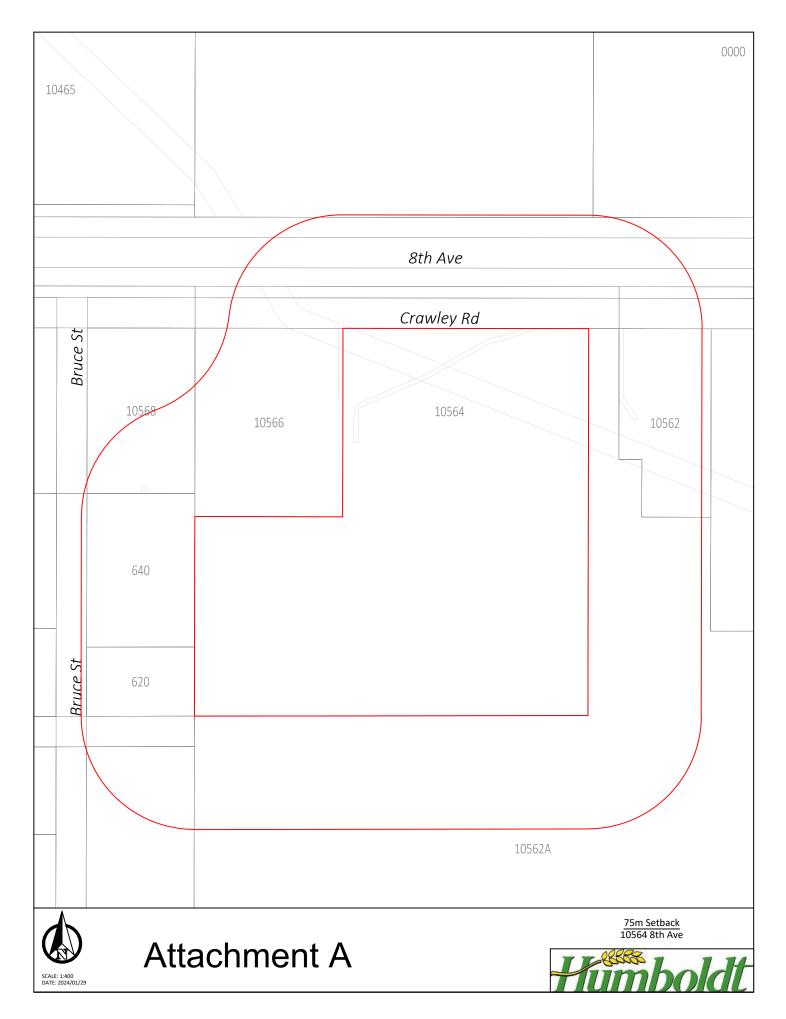
There is no anticipated financial implications.





CONCLUSION

The proposed discretionary use does not fit any proper definition in the Zoning Bylaw, 2016. As such it was deemed appropriate to have council approve or deny the operation of a fertilizer blending and storage facility. 10564 8th Ave is located on a large C3 lot with similar operations surrounding it. It is administration's opinion that the proposed use will not negatively affect the community. In fact, the increased commercial activity will likely be a net benefit.





4.1 Recommendation - Community Development Coordinator...

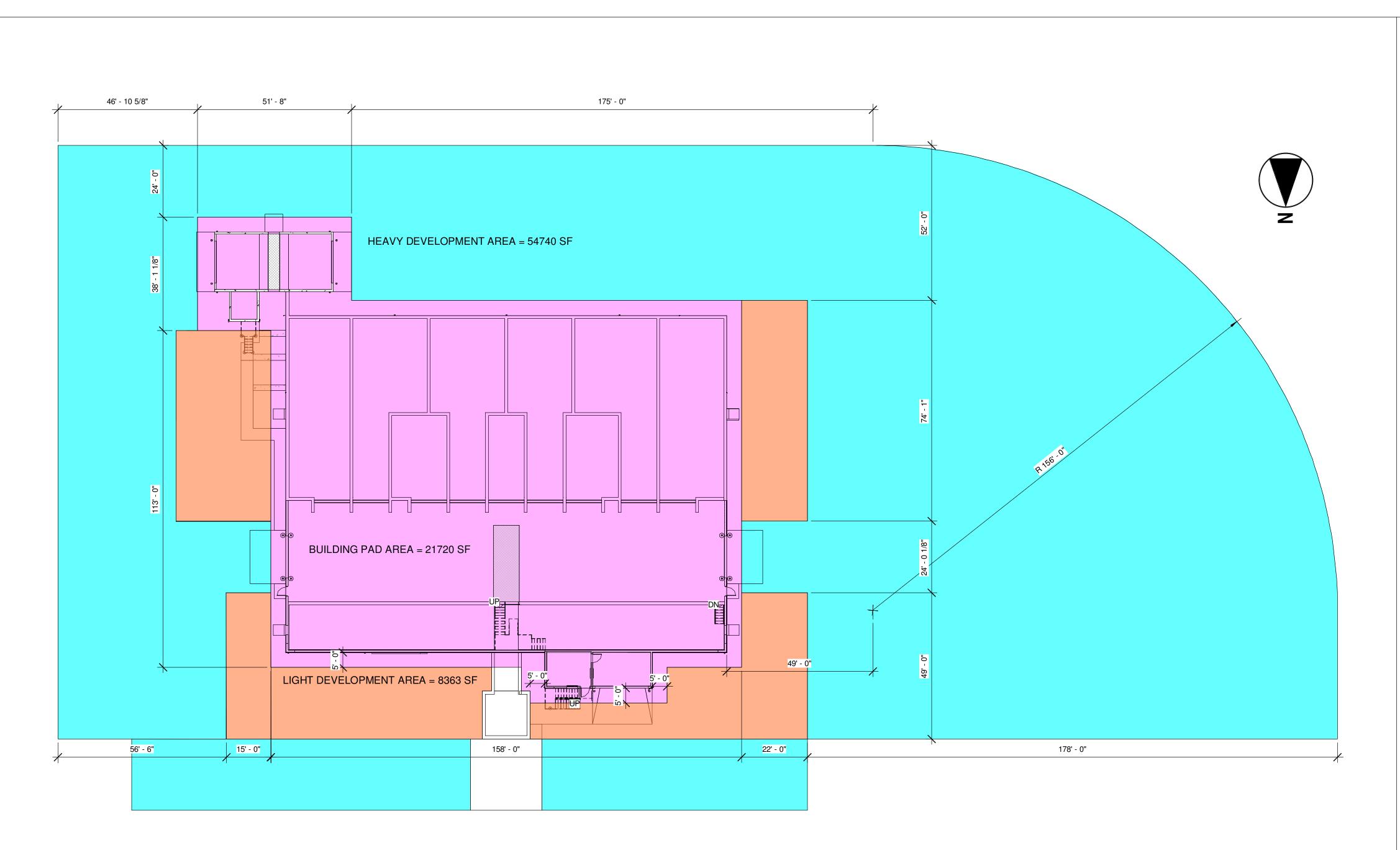
- (1) ROADWAY TURN RADIUS' MINIMUM 100ft IN MOST CASES
- (2) POTENTIAL TO INCLUDE BYPASS LANES ON NORTH SIDE OF OUTLOAD AND SOUTH SIDE OF INLOAD
- (3) ROADWAY WIDTH SET AT 18ft
- (4) BUILDING FOOTPRINT (EXCL. INLOAD & OUTLOAD): 113'-0" x 148'-0"

Report - Discretionary Use Application - Fertilize... | Page - 9

1 UNDER SLAB PREP 1/2" = 1'-0"

4.1 Recommendation - Community Development Coordinator...

1 - TYPE 33 - 1" MINUS CRUSHED GRA COMPACTED TO 100% SPDD, 150mm LI	
12	2 - TYPE 8 - 1 1/2" MINUS CRUSHED GRAVEL COMPACTED TO 100% SPDD, 150mm LIFTS
12	2 - TYPE 8 - 1 1/2" MINUS CRUSHED GRAVEL COMPACTED TO 100% SPDD, 150mm LIFTS
*	



LIGHT DEVELOPMENT

HEAVY DEVELOPMENT

BUILDING PAD

150mm OF TYPE 33 762mm OF TYPE 8 NON-WOVEN GEOTEXTILE

200mm OF TYPE 33

300mm OF TYPE 8

WOVEN GEOTEXTILE

254mm OF FINISH 1" CRUSH

SITE PREPARATION AREA PLAN

- ROLLER. •
- •
- •

- 2.
- •

EXCAVATION AND SITE PREPARATION NOTES :

PRIOR TO EXCAVATION THE CONTRACTOR IS RESPONSIBLE TO LOCATE ALL UTILITY LINES IN OR NEAR THE EXCAVATION AREA.

THROUGHOUT THE ENGINEERED FILL PROCESS THE CONTRACTOR IS RESPONSIBLE TO : PROOF ROLL THE ENTIRE BUILDING AREA AFTER REMOVAL OF TOP SOIL WITH A

MINIMUM OF 10 PASSES WITH A HEAVY SHEEPSFOOT OR VIBRATORY PADFOOT SOFT AREAS ARE TO BE REMOVED AND FILLED WITH TYPE 8 (1 1/2" CRUSHED GRAVEL) FILL COMPACTED TO MIN. 96% SPDD

COMPLETE COMPACTION TEST AFTER REMOVAL OF PREVIOUSLY INSTALLED, COMPACTED MATERIAL. COMPLETE COMPACTION TEST UPON COMPLETION OF EACH LIFT

SITE PREPARATION LAYERS (BEGINNING FROM TOP) :

BENEATH THE SLAB ONLY (NOT BELOW THICKENINGS)
 12" (300mm) LAYER OF TYPE 33 (1" MINUS CRUSHED GRAVEL) FILL COMPACTED TO MIN. 100% SPDD

PLACE IN LIFTS NOT EXCEEDING 6" (150mm) IN THICKNESS

BENEATH UNDERSIDE OF THICKENINGS (MIN 24" LAYER) • 12" (300mm) LAYER OF TYPE 8 (1 1/2" CRUSHED GRAVEL) FILL COMPACTED TO MIN 100% SPDD PLACED IN LIFTS NOT EXCEEDING 6" (150mm) IN THICKNESS. 12" (300mm) LAYER OF TYPE 8 (1 1/2" CRUSHED GRAVEL) FILL COMPACTED TO MIN 98% SPDD PLACED IN LIFTS NOT EXCEEDING 6" (150mm) IN THICKNESS.

3. COMBO CLOTH TO EXTEND 10 FEET BEYOND EXTERIOR OF BUILDING

4. NATIVE SOIL COMPACTED TO 96% SPDD. PROOF ROLLED AND FILLED AS REQUIRED.

L	J – YCC builders	inc.			
	PO Box 296, 517 8th Ave. Bow Island, AB, T0K 0G0 (403) 545-6048				
	www.jaycobuilders.ca				
NOTES: -THIS DRAWING REMAINS THE PROPERTY OF JAYCO BUILDERS INC. AND MAY NOT BE COPIED, MODIFIED, REPRODUCED OR DISTRIBUTED WITHOUT WRITTEN CONSENT OF JAYCO BUILDERS INC. -THIS PLAN IS PROTECTED BY COPYRIGHT AND ANY UNAUTHORIZED REPRODUCTION, DISSEMINATION OR USE IS PROHIBITED AND ABSOLVES THIS OFFICE (JAYCO BUILDERS INC.) OF ANY AND ALL LIABILITY -ANY MODIFICATIONS OF THIS PLAN IS NOT VALID AGAINST OR WARRANTED BY JAYCO BUILDERS INC.) -THE CONTRACTOR/CLIENT SHALL VERIFY ALL DIMENSIONS, NOTES, & DATUMS PRIOR TO COMMENCEMENT OF WORK AND SHALL NOTIFY THIS OFFICE OF ANY ERFORS OR OMISSIONS -THE CONTRACTOR/CLIENT TO REVIEW THESE DRAWINGS AND REPORT ANY ERRORS OR OMISSIONS TO THIS OFFICE PRIOR TO COMMENCEMENT OF WORK -TI IS THE RESPONSIBILITY OF THE CONTRACTOR/CLIENT TO ENSURE COMPLIANCE WITH CURRENT BUILDING CODE, AND LOCAL REGULATIONS, ON ITEMS NOT SHOWN, OR SPECIFICALLY DIRECTED FOR FURTHER INQUIRY -DO NOT SCALE DRAWINGS -CONCRETE SLAB ELEVATIONS, SUB-FLOOR ELEVATIONS, TOP OF FOOTING ELEVATIONS, AND DRIVEW AY SLOPE PRECENTAGES ARE SUGGESTED ONLY. CONTRACTOR/CLIENT TO VERIFY AND CROSS REFERENCE WITH GRADING PLANS -THE CONTRACTOR/CLIENT IS RESPONSIBLE TO ENSURE ADEOUATE FILL AND FROST PROTECTION IN ACCORDANCE WITH APPLICABLE BUILDING CODE. -THE CONTRACTOR/CLIENT IS RESPONSIBLE TO ENSURE ADEOUATE FILL AND FROST PROTECTION IN ACCORDANCE WITH APPLICABLE BUILDING CODE. -THE CONTRACTOR/CLIENT IS RESPONSIBLE TO ENSURE ADEOUATE FILL AND FROST PROTECTION IN ACCORDANCE WITH APPLICABLE BUILDING CODE. -THE CONTRACTOR/CLIENT IS RESPONSIBLE TO ENSURE ADEOUATE FILL AND FROST PROTECTION IN ACCORDANCE WITH APPLICABLE BUILDING CODE. -THE CONTRACTOR/CLIENT IS RESPONSIBLE TO ENSURE ADEOUATE FILL AND FROST PROTECTION IN ACCORDANCE WITH APPLICABLE BUILDING CODE.					
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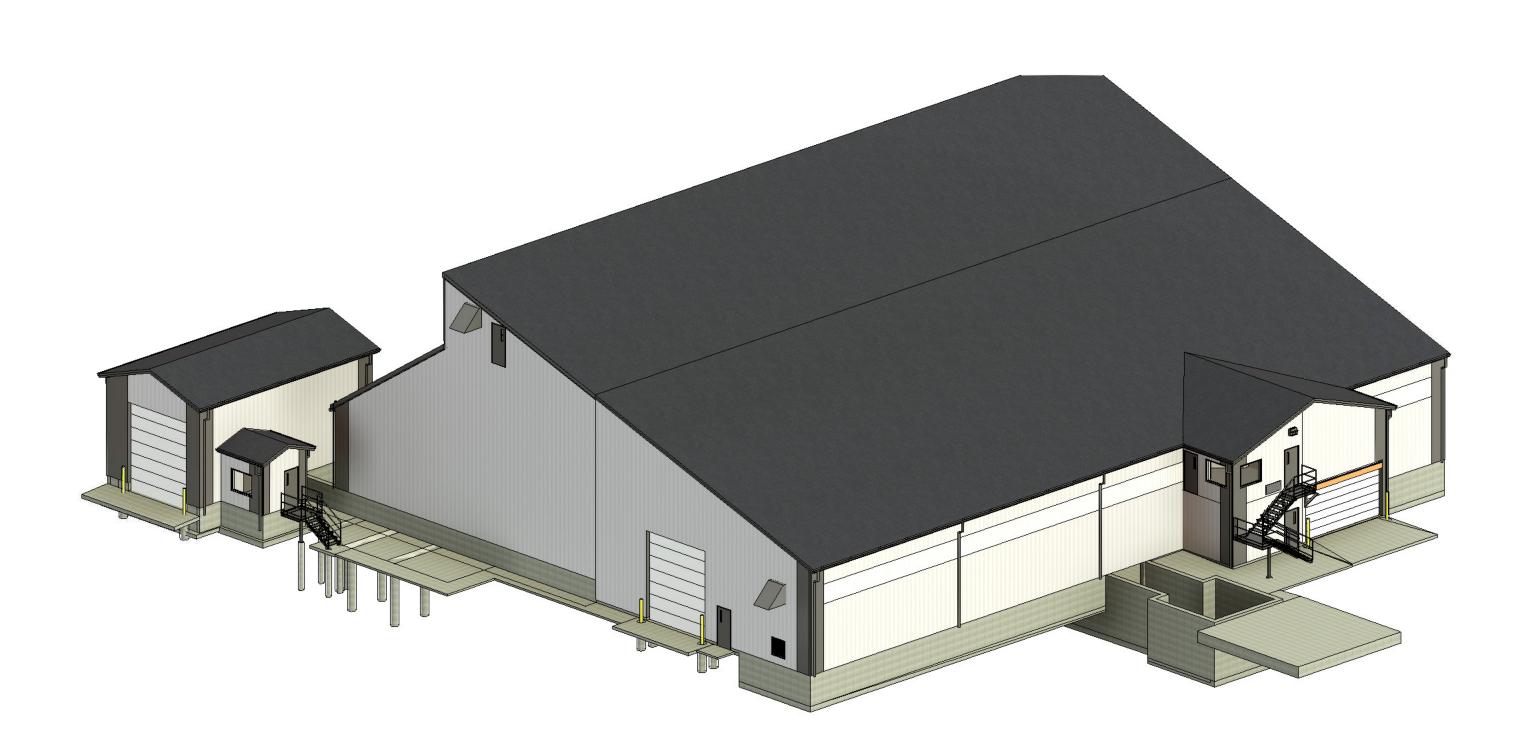
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4.1 Recommendation - Community Development Coordinator...

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Date 202 Drawn by	23-07-06



ISSUED FOR PERMIT 2024-01-03

4.1 Recommendation - Community Development Coordinator..

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Sheet Number

A001 A002

A003

A101 A102

A103 A104 A106 A201

A202 A301 A302 A303 A401

A402

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	TOP AND BOTTOM OF EACH FLIGHT OF STAIRS AS WELL AS WHERE A DOORWAY OPENS ONTO A	
	STAIR. THE LENGTH AND WIDTH OF A STAIR LANDING	No. Description Date
	SHAL BE AT LEAST THE WIDTH OF THE STAIRWAY IN WHICH IT OCCURS EXCEPT THAT IN A STRAIGHT	1 ISSUED FOR PERMIT 2024-01
	RUN, THE LENGTH OF THELANDING NEED NOT EXCEED 44".	
	WHERE A DOORWAY OR STAIRWAY EMPTIES ONTO A RAMP THROUGH A SIDE WALL, THERE SHALL BE	
	A LEVEL AREA EXTENDING ACROSS THE FULL WIDTH OF THE RAMP, AND FOR A DISTANCE OF 12" ON EITHER SIDE OF THE WALL OPENING, EXCEPT	
	ONE SIDE IT ABUTS ON AN END WALL.	
UARD	STAIRWAY IS TO HAVE A HANDRAIL ON ATLEAST ONE SIDE, IF IT IS 44" OR MORE WIDE IT SHALL HAVE HANDRAILS ON BOTH SIDES.	
	HEIGHTS, EXTENSIONS, AND INTEGRATION OF HANDRAILS TO FURTHER CONFORM TO 3.4.6.5.	
	EVERY EXIT SHALL HAVE A WALL OR A WELL SECURED GUARD ON EACH SIDE.	
	HEIGHTS, EXTENSIONS, AND INTEGRATION OF GUARD TO FURTHER CONFORM TO 3.4.6.5.	
IENTS IN RELATION	THE DISTANCE BETWEEN A STAIR RISER AND THE LEADING EDGE OF A DOOR DURING ITS SWING	
OOR SWING (3.4.6.12)	SHALL BE NOT LESS THAN 12 EVERY EXIT DOOR SHALL OPEN IN THE DIRECTION	
S (3.4.3.2)	OF EXIT TRAVEL AND SWING ON ITS VERTICAL AXIS CORRIDORS AND PASSGEWAYS = 44"	CO-OP, HUMBOLDT, SK
(U. T.U. <i>L)</i>	STAIRS = $32"$ DOORWAYS = $32"$	
	AN ATTIC OR ROOF SPACE MORE THAN 24" HIGH	FERTILIZER STORAGE
55 INTO AN ATTIC UK	SHALL BE PROVIDED WITH ACCESS FROM THE FLOOR IMEDIATELY BELOW BY AN ACCESS HATCH	COVER SHEET
	MEASURING NOT LESS THAN 22"X36" IN CLEAR OPENING SIZE.	
		Project number COM74 Date 2023-07-0
HORIZONTAL CES	HORIZONTAL CONCEALED SPACES WITHIN A FLOOR OR ROOF ASSEMBLY OF COMBUSTIBLE CONSTRUCTION SHALL BE SEPERATED INTO	Drawn by Auth Checked by A
	CONSTRUCTION SHALL BE SEPERATED INTO COMPARTMENTS NOT MORE THAN 3220SF IN AREA WITH NO DIMENSION MORE THAN 65' BY FIRE	
	BLOCKING MATERIALS.	A001

Report - Discretionar	v Lise Application	- Fertilize	Page - 12
Report - Disorctional	y ose ripplication	- T GT UIIZG	1 ugo - 1z

ASSEMBLIES 001 ✓ 12" = 1'-0"

4.1 Recommendation - Community Development Coordinator.

0				0.000				
7	5/8" DRYWALL			0.101				
8	INT. AIR FILM			0.120				AREA * 0.210
	EFFECTIVE RSI VALUE			3.318	0.301	532	160.35	111.72
EXT. WA	ALL ASSEMBLY 2	%	C RSI	RSI				
1	EXT. AIR FILM			0.030				
2	SIDING			0.110				
3	1/2" PLYWOOD			0.101				
	2X8 @ 16" O/C	23	1.56					
	R28 BATTS	77	4.93					
4	COMBO			3.298				
5	6MIL POLY			0.000				
6	1/2" DRYWALL			0.109				
7	5/8" GYPSUM			0.101				
8	INT. AIR FILM			0.120				
-								AREA * 0.210
	EFFECTIVE RSI VALUE			3.869	0.258	608	157.16	127.68
ABOVE	GRADE VERTICAL ASSEMBL	IES TOTALS				1140	317.51	239.4
NBOVE						1140	017.01	200.4
	ABC	OVE GRADE	HORIZONTAL A	ASSEMBIE	S			
ABOVE	GROUND ROOF			RSI				
1	EXT. AIR FILM			0.030				
2	CELLULOSE INS.	267	0.03	6.675				
3	2X4 @ 24" O/C	7	0.76					
4	89MM CELULOSE INS.	93	2.23	4 050				
_	COMBO			1.959				
5	6MIL POLY			0.000				
6				0.000				
7	5/8" DRYWALL			0.101				
8	INT. AIR FILM			0.110				AREA * 0.138
	EFFECTIVE RSI VALUE			8.875	0.113	432	48.68	59.616
ABOVE	GRADE HORIZONTAL ASSEM	BIES TOTAL	_S			432	48.68	59.616
		BELOW G	RADE ASSEME	BLIES				
FLOOR	IN CONTACT W/ GROUND			RSI				
1	INT. AIR FILM			0.160				
2	CONC. SLAB	6	0.06	0.061				
3	6MIL POLY			0.000				
4	RIGID INS	2.5	1.65	1.651				
				-				AREA * 0.757
	EFFECTIVE RSI VALUE			1.872	0.534	432	230.77	327.024
BELOW	GRADE ASSEMBIES TOTAL	6				432	230.77	327.024
	TOTAL					Γ	596.96	< 626.04
							530.30	< <u>020.04</u>

INSULATED CONTROL ROOM / TOTE STORAGE	

RSI

0.030

0.110

0.000

0.109

2.848

0.000

U AREA

ABOVE GRADE VERTICAL ASSEMBLIES

RSI

1.19

4.23

%

19

81

EXT. WALL ASSEMBLY 1

EXT. AIR FILM

BUILDING WRAP

1/2" PLYWOOD

2X6 @ 16" O/C

R24 BATTS

6MIL POLY

COMBO

SIDING

REFERENCE BLDG

U*A

A * MAX U

	DOOR SCHEDULE							
MARK	WIDTH	HEIGHT	DOOR	FRAME	GLAZING	HARDWARE	COMMENTS	HEADER
01	3' - 0"	7' - 0"	METAL, INSULATED, PAINT	PSF, PAINT	6X20 VISION LITE	LEVER, ENTRY	WEATHERSTRIP, THRESHOLD, SELF CLOSER	3 - 2X8 W/ 2 CRIPPLES AND 1 STUD
02	3' - 0"	7' - 0"	METAL, INSULATED, PAINT	PSF, PAINT	6X20 VISION LITE	LEVER, ENTRY	WEATHERSTRIP, THRESHOLD, SELF CLOSER	3 - 2X8 W/ 2 CRIPPLES AND 1 STUD
03	3' - 0"	7' - 0"	METAL, INSULATED, PAINT	PSF, PAINT	6X20 VISION LITE	LEVER, ENTRY	WEATHERSTRIP, THRESHOLD, SELF CLOSER	3 - 2X8 W/ 2 CRIPPLES AND 1 STUD
04	3' - 0"	7' - 0"	METAL, INSULATED, PAINT	PSF, PAINT	6X20 VISION LITE	LEVER, ENTRY	WEATHERSTRIP, THRESHOLD, SELF CLOSER	3 - 2X8 W/ 2 CRIPPLES AND 1 STUD
05	3' - 0"	7' - 0"	METAL, INSULATED, PAINT	PSF, PAINT	6X20 VISION LITE	LEVER, ENTRY	WEATHERSTRIP, THRESHOLD, SELF CLOSER	3 - 2X8 W/ 2 CRIPPLES AND 1 STUD
06	3' - 0"	7' - 0"	METAL, INSULATED, PAINT	PSF, PAINT	6X20 VISION LITE	LEVER, ENTRY	WEATHERSTRIP, THRESHOLD, SELF CLOSER	3 - 2X8 W/ 2 CRIPPLES AND 1 STUD
07	3' - 0"	7' - 0"	METAL, PAINT	PSF, PAINT	6X20 VISION LITE	LEVER, PASSAGE		3 - 2X8 W/ 2 CRIPPLES AND 1 STUD
08	3' - 0"	7' - 0"	METAL, PAINT	PSF, PAINT	6X20 VISION LITE	LEVER, ENTRY		3 - 2X8 W/ 2 CRIPPLES AND 1 STUD
09	3' - 0"	7' - 0"	METAL, INSULATED, PAINT	PSF, PAINT	6X20 VISION LITE	LEVER, ENTRY	WEATHERSTRIP, THRESHOLD, SELF CLOSER	3 - 2X8 W/ 2 CRIPPLES AND 1 STUD
10	3' - 0"	7' - 0"	METAL, PAINT	PSF, PAINT	6X20 VISION LITE	LEVER, PASSAGE		
11	3' - 0"	7' - 0"	METAL, INSULATED, PAINT	PSF, PAINT	6X20 VISION LITE	LEVER, ENTRY	WEATHERSTRIP, THRESHOLD, SELF CLOSER	
100	14' - 0"	16' - 0"	METAL, INSULATED, SECTIONAL, PAINT				CHAIN HOIST	2 PLY 9 1/2" LVL W/ 2 CRIPPLES AND 1 STUD
101	14' - 0"	16' - 0"	METAL, INSULATED, SECTIONAL, PAINT				CHAIN HOIST	2 PLY 9 1/2" LVL W/ 2 CRIPPLES AND 1 STUD
102	14' - 0"	16' - 0"	METAL, INSULATED, SECTIONAL, PAINT				CHAIN HOIST	2 PLY 14" LVL W/ 2 CRIPPLES AND 1 STUD
103	14' - 0"	16' - 0"	METAL, INSULATED, SECTIONAL, PAINT				CHAIN HOIST	2 PLY 14" LVL W/ 2 CRIPPLES AND 1 STUD
104	18' - 0"	10' - 0"	METAL, INSULATED, SECTIONAL, PAINT				CHAIN HOIST	2 PLY 9 1/2" LVL W/ 2 CRIPPLES AND 1 STUD

FENESTRATION 001 ✓ 12" = 1'-0"

	F	ENES
WALL	WALL	GRO
LENGTH (FT)	HEIGHT (FT)	WAL
60	19	1140
TOTAL ALLOW	VED	
WINDOWS		
QTY	W (IN)	H (IN
2	60	48
DOORS		
QTY	W (IN)	H (IN
1	216	120
2	36	84
TOTAL(sf)		

ASPHALT SHINGLES ROOFING FELT 1/2" PLYWOOD W/ H-CLIPS ENG. ROOF TRUSSES @ 24" O/C 6MIL POLY V.B. 1/2" PLYWOOD R3 - CONTROL ROOM ROOF ASPHALT SHINGLES ROOFING MEMBRANE 1/2" PLYWOOD W/ H-CLIPS ENG. ROOF TRUSSES @ 24" O/C **R50 BATT INSULATION** 6MIL POLY V.B.

F1 - CONTROL ROOM FLOOR

2 LAYERS 5/8" TYPE X DRYWALL

(45 MIN FRR)

6MIL POLY V.B.

2X12 @ 12" O/C

1/2" PLYWOOD

<u>R1 - BIN ROOF</u>

ROOFING FELT

2X10 @ 12" O/C

1/2" DRYWALL

 $\bigcirc \frac{FLOOR / ROOF LEGEND}{1/4" = 1'-0"}$

ASPHALT SHINGLES

1/2" PLYWOOD W/ H-CLIPS

R2 - DRIVE BAY ROOF

3/4" T&G PLYWOOD

R20 BATT INSULATION

FENESTRATION CALCULATIONS OSS HDD FWDR MAX AREA ALL AREA (SF) OPENING (SF) 00.0 6100.00 0.26 296.4 296.4 AREA (SF) U IN) 40.00 MAX 1.9 AREA (SF) U IN) 180.00 MAX 1.9 42.00 MAX 1.9

262.00

296.4

ISSUED FOR PER

RMIT	2024-01	-03

\bigcirc	WALL LEGEND	
\bigcirc	1/4" = 1'-0"	

2X4 @ 12" O/C

P6

1/2" PLYWOOD **R28 BATT INSULATION** 2X8 @ 16" O/C MID-HEIGHT BLOCKING 1/2" PLYWOOD

1/2" PLYWOOD P5

(1 HR) 1/2" PLYWOOD 2X6 @ 16" O/C, MID HEIGHT BLOCKING **R24 BATT INSULATION** 5/8" TYPE X DRYWALL

1/2" PLYWOOD 2X6 @ 16" O/C, MID HEIGHT BLOCKING **R24 BATT INSULATION** 6MIL POLY V.B. 5/8" TYPE X DRYWALL P4

P1 1/2" PLYWOOD 2X10 @ 12" O/C 1/2" PLYWOOD P3 (1 HR)

1/2" PLYWOOD EW6 METAL SIDING 2X4 STRAPPING @ 36" O/C 2X6 @ 16" O/C, MID HEIGHT BLOCKING **R20 BATT INSULATION** 6MIL POLY V.B. 1/2" PLYWOOD, PAINTED

2X8 @ 12" O/C, MID HEIGHT BLOCKING

EW4 OPAQUE SIDING 2X4 STRAPPING @ 36" O/C 2X8 @ 12" O/C, MID HEIGHT BLOCKING EW5 METAL SIDING 2X4 STRAPPING @ 36" O/C

METAL SIDING 1/2" PLYWOOD 2X6 @ 16" O/C, MID HEIGHT BLOCKING **R24 BATT INSULATION** 6MIL POLY V.B. 5/8" TYPE X DRYWALL

R28 BATT INSULATION 6MIL POLY V.B. 1/2" PLYWOOD EW3 (1 HR) METAL SIDING 1/2" PLYWOOD

2X8 @ 12" O/C, MID HEIGHT BLOCKING

1/2" PLYWOOD

EW1

EW2

EW2A

METAL SIDING

2X10 @ 12" O/C

1/2" PLYWOOD

METAL SIDING

1/2" PLYWOOD

METAL SIDING

1/2" PLYWOOD

EW3A (1 HR)

2X4 STRAPPING @ 36" O/C

2X4 STRAPPING @ 36" O/C

2X6 @ 16" O/C, MID HEIGHT BLOCKING

R24 BATT INSULATION 6MIL POLY V.B. 5/8" TYPE X DRYWALL

2X8 @ 12" O/C, MID HEIGHT BLOCKING

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J

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(403) 545-6048

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YR. MN. DAY

).	Description	Date
	ISSUED FOR PERMIT	2024-01-03

SCHEDULES

A003

FERTILIZER STORAGE

COM740 2023-07-06 Author Checker

Scale

Date

Drawn by

Checked by

Project number

As indicated

SK

15

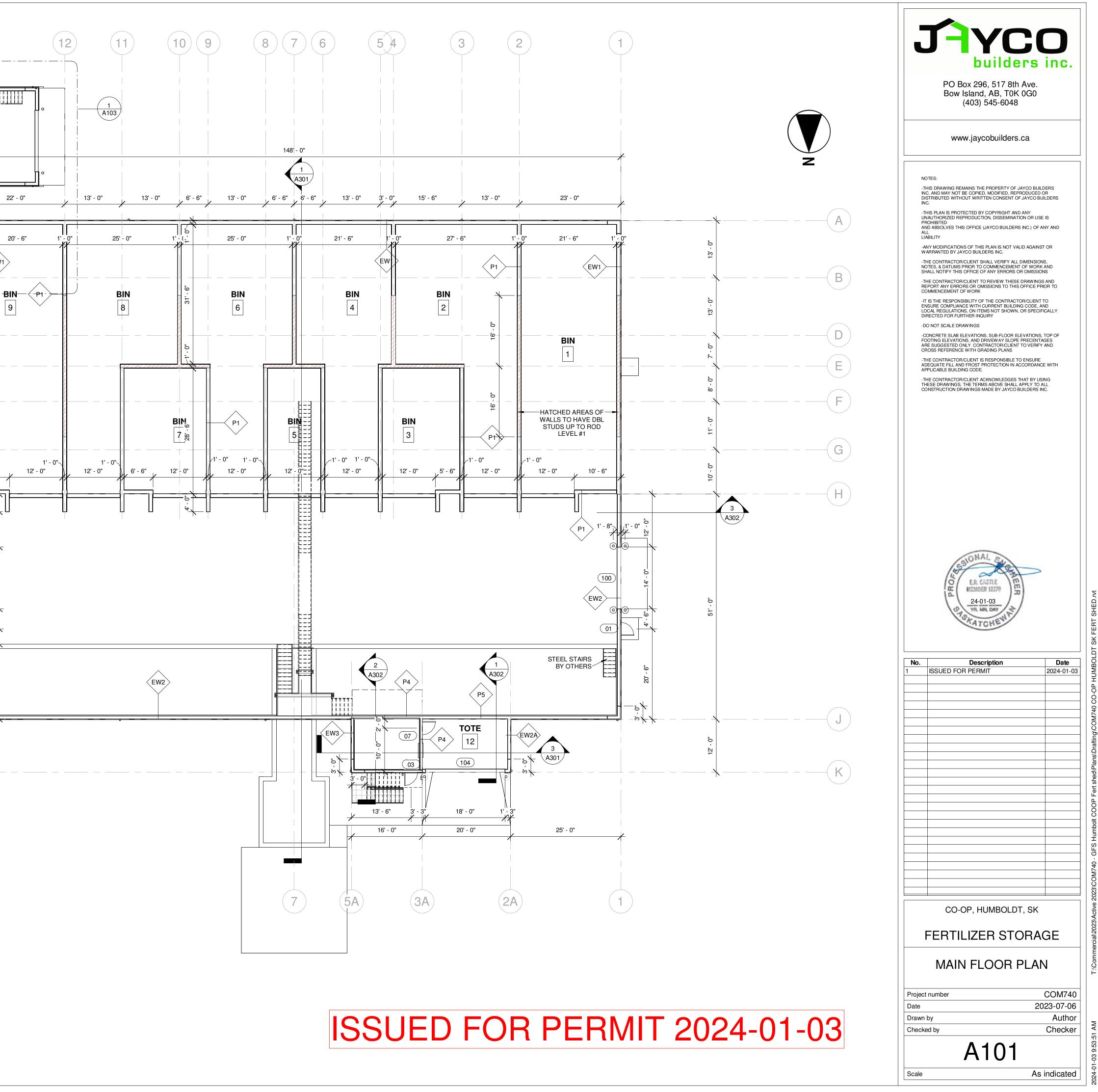
			13	
S303 2				
	• • • • • • • • • • • • • • • • • • •			2" EW1
			- 0"	1' - 0" 8' - 6" - +
	51' - 0"	1'-9" 14'-6" 1'-9"		17 0" 17 0" 17 0" 14 0" 14 0" 14 0" 14 0" 14 0" 14 0" 14 0"

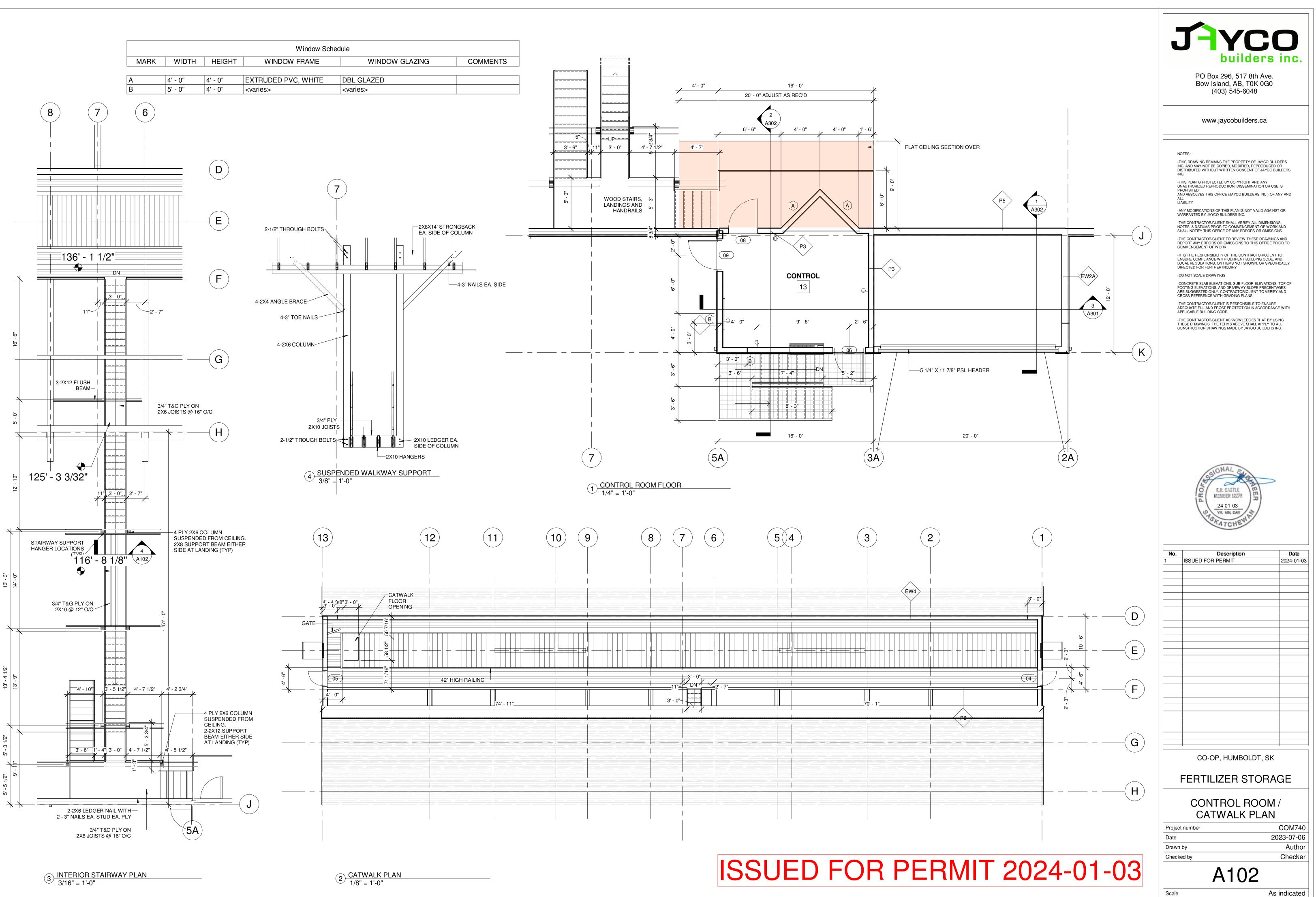
BIN	#/CF	SF	LENGTH	MT	
1	48	1689.55	21.5		Urea
		0	0	792.55	
2	65	1689.55	12		AS
		868.36	15.5	996.69	
3	48	0	0		ESN
		790.54	17.5	301.84	
4	60	1689.55	12		MAP
		868.36	9	766.09	
5	68	0	0		Sulphu
		790.54	12	293.22	
6	72	1689.55	12		РОТ
		868.36	13	1032.98	
7	46	0	0		SU
		790.54	18.5	305.80	
8	48	1689.55	12		Urea
		868.36	13	688.65	
9	60	1689.55	20.5		MAP
		0	0	944.61	
			TOTAL	6122.43	

BIN WEIGHTS (3) 001 12" = 1'-0"

4.1 Recommendation - Community Development Coordinator..

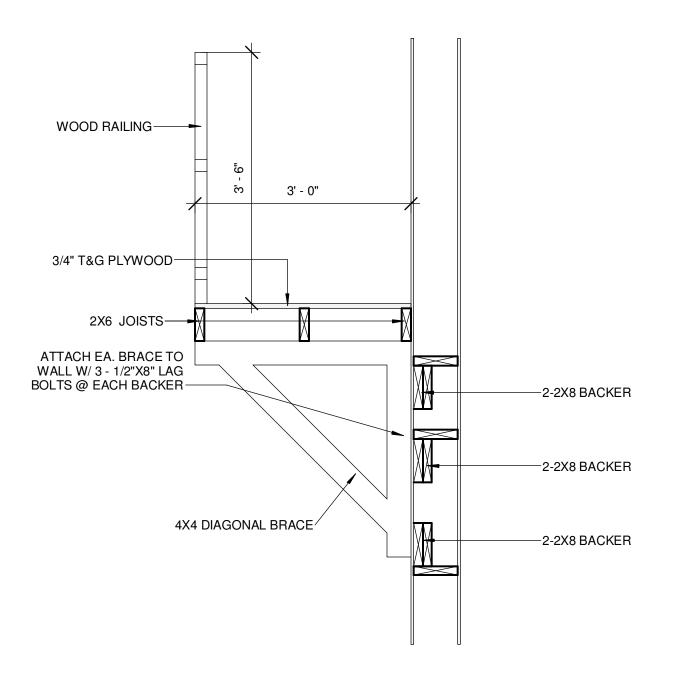
Report - Discretionary Use Application - Fertilize... | Page - 13





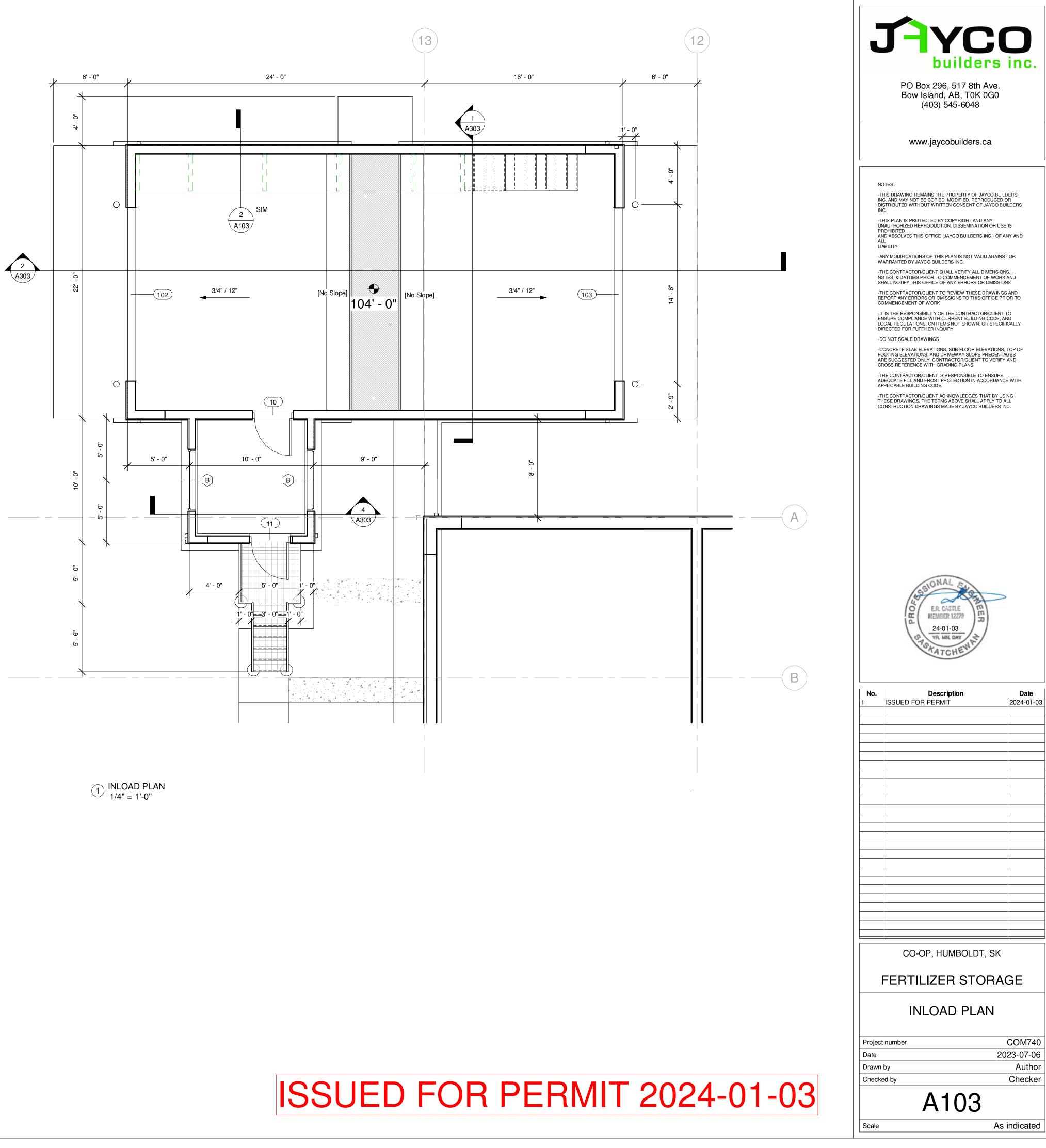
4.1 Recommendation - Community Development Coordinator.

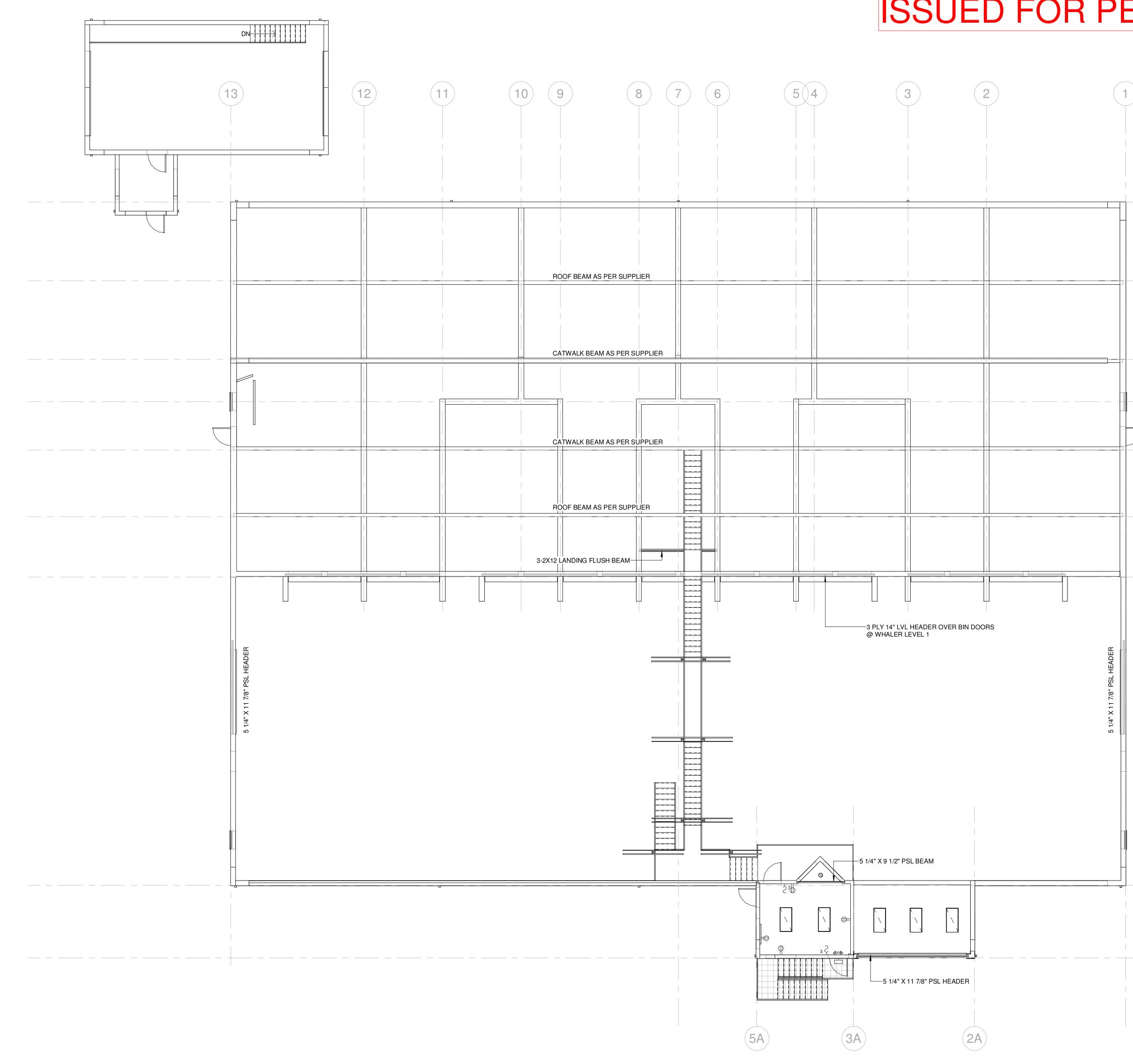
As indicated



2 INLOAD CATWALK SUPPORT 3/4" = 1'-0"

4.1 Recommendation - Community Development Coordinator..

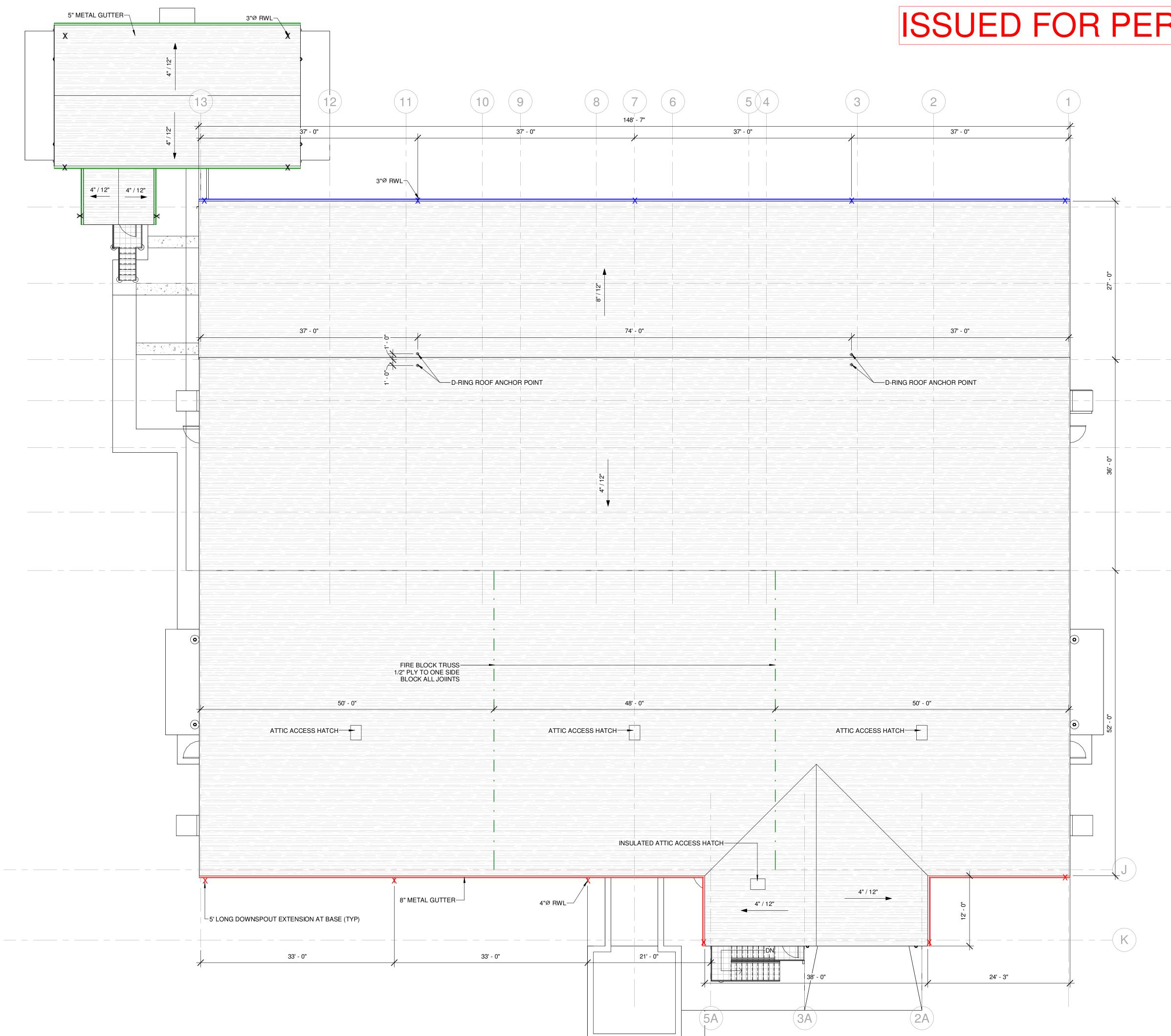




4.1 Recommendation - Community Development Coordinator...

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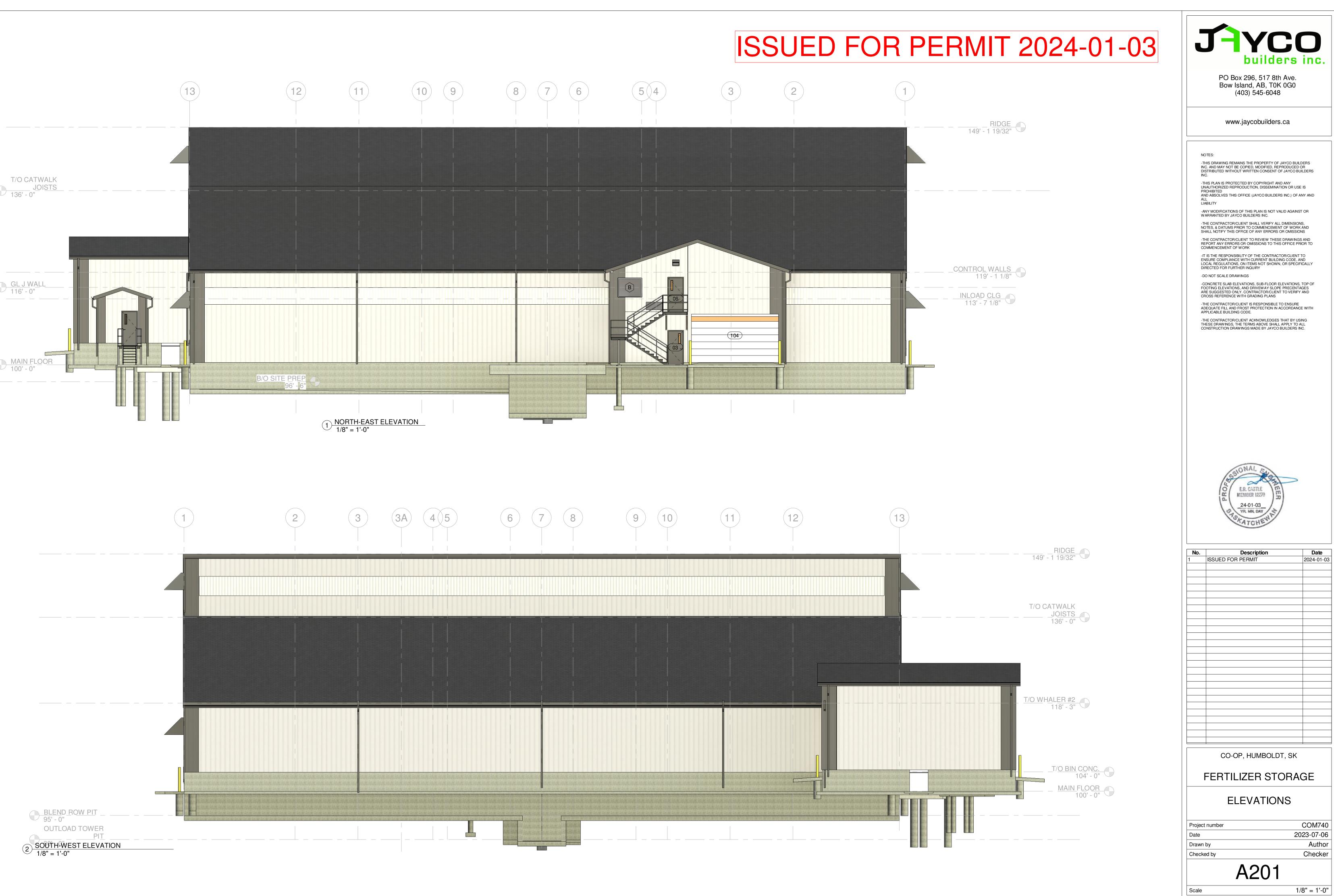
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E	
F	
G	SIONAL EN
	ER CASTLE MEMBER 12279 24-01-03 YR. MN. DAY
	No. Description Date 1 ISSUED FOR PERMIT 2024-01-03
	Image: Constraint of the second se
	CO-OP, HUMBOLDT, SK
	FERTILIZER STORAGE
	ROOF BEAM LAYOUT Project number COM740 Date 2023-07-06 Drawn by Author Checked by Checker A104 Scale 1/8" = 1'-0"

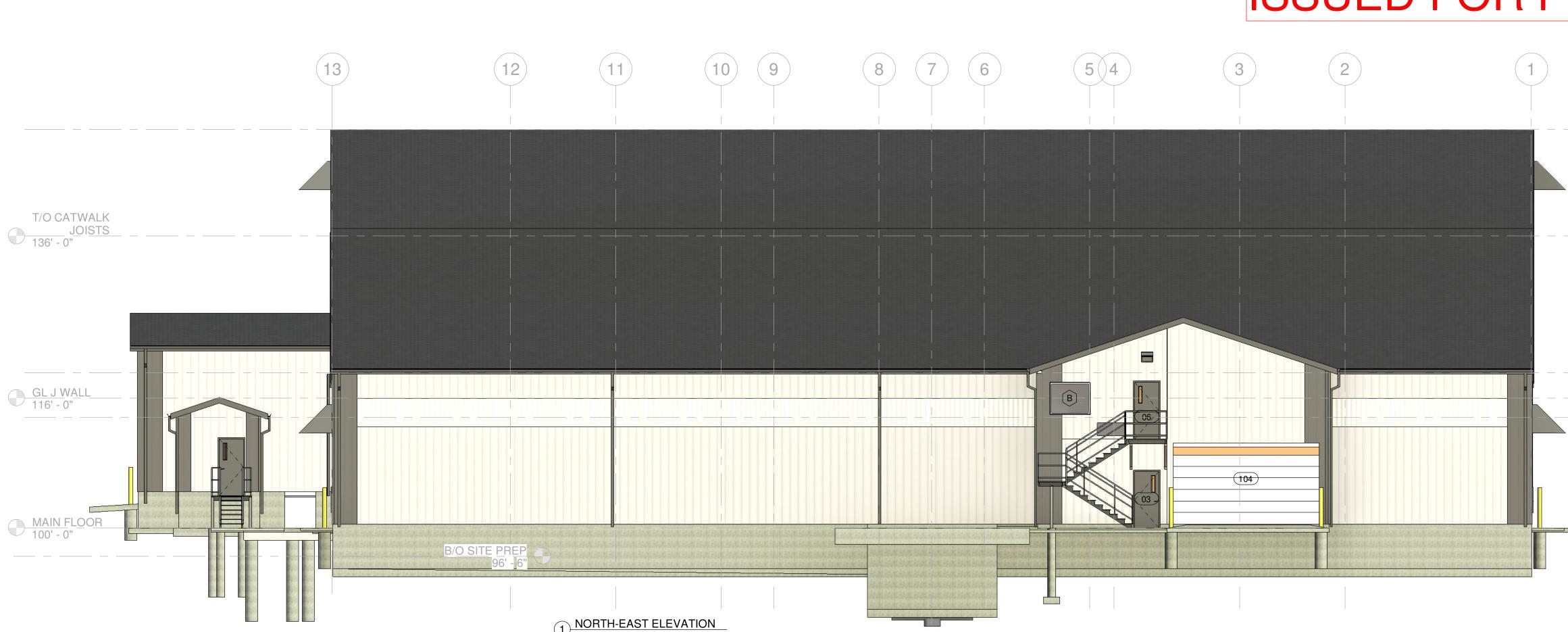


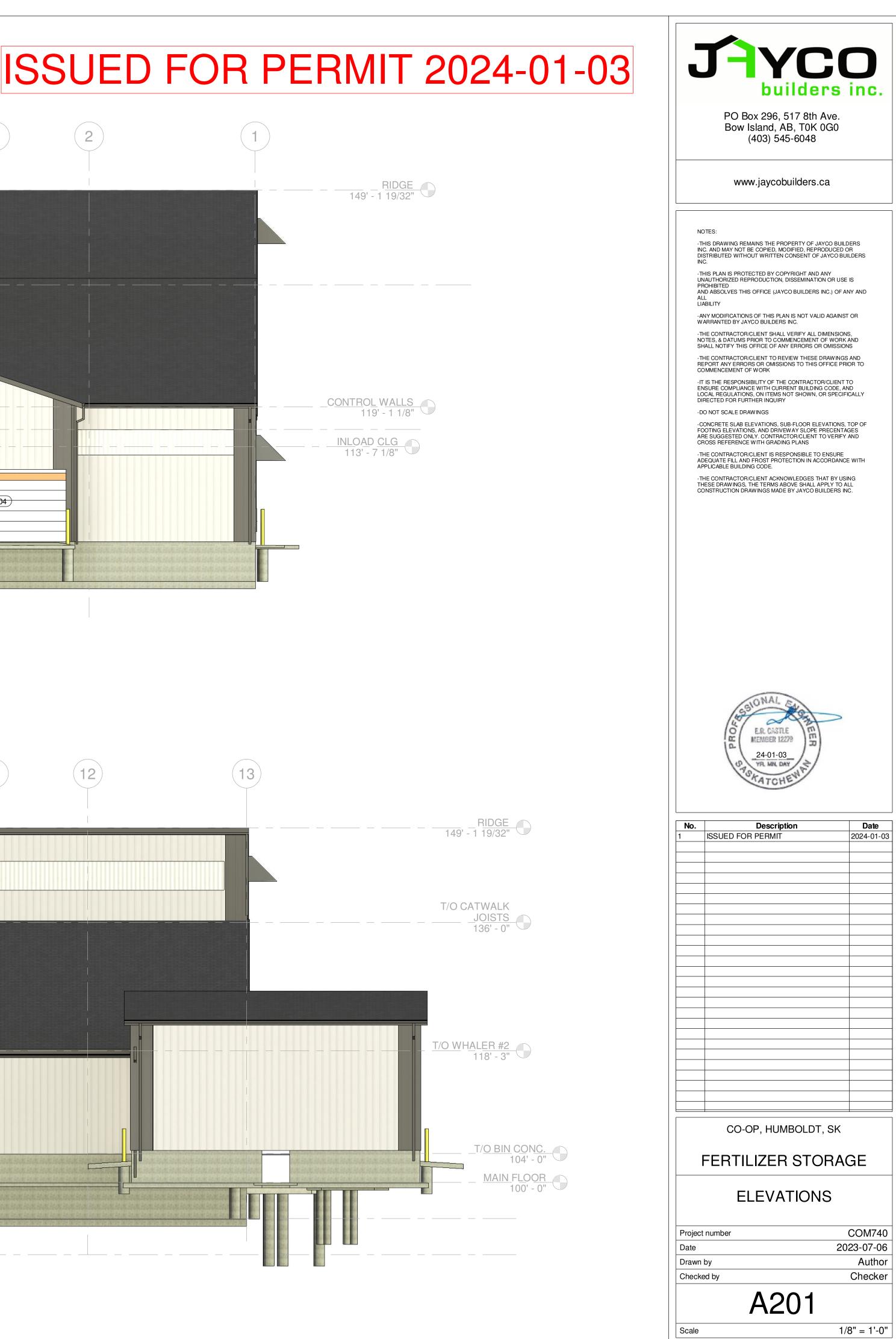
4.1 Recommendation - Community Development Coordinator...

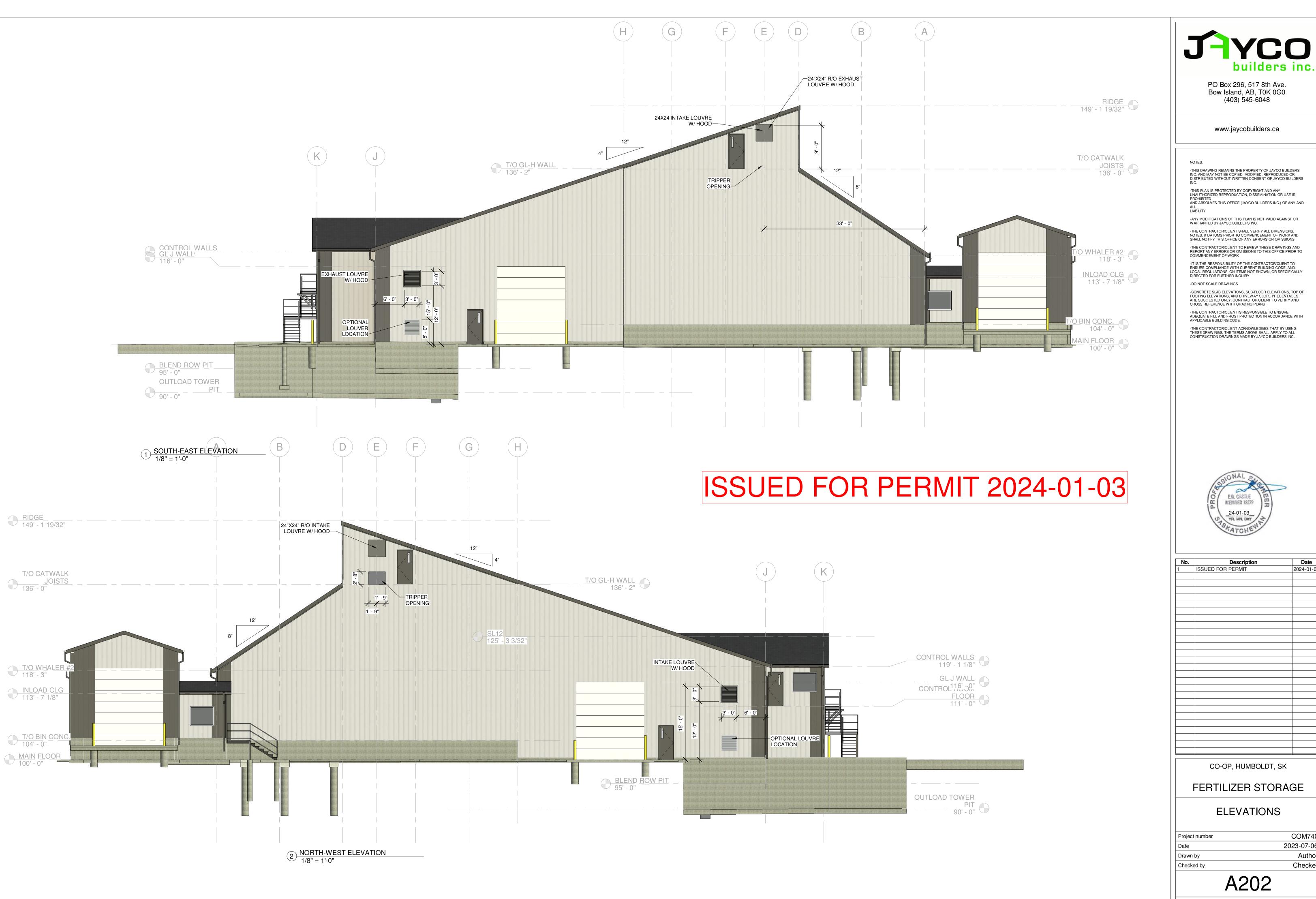
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– – – – (D)	FOOTING ELEVATIONS, AND DRIVEWAY SLOPE PRECENTAGES ARE SUGGESTED ONLY. CONTRACTOR/CLIENT TO VERIFY AND CROSS REFERENCE WITH GRADING PLANS -THE CONTRACTOR/CLIENT IS RESPONSIBLE TO ENSURE ADEQUATE FILL AND FROST PROTECTION IN ACCORDANCE WITH APPLICABLE BUILDING CODE. -THE CONTRACTOR/CLIENT ACKNOWLEDGES THAT BY USING THEOR DRAWINGO. THE TECHNOLOGY CURL ADDING THE
E	THESE DRAWINGS, THE TERMS ABOVE SHALL APPLY TO ALL CONSTRUCTION DRAWINGS MADE BY JAYCO BUILDERS INC.
F	
– – – – G	
— — — — H	CONTRACTOR
	Image: Construction Date 1 ISSUED FOR PERMIT 2024-01-03 1 ISSUED FOR PERMIT 2024-01-03 1 ISSUED FOR PERMIT 1000000000000000000000000000000000000
	CO-OP, HUMBOLDT, SK
	FERTILIZER STORAGE
	ROOF PLAN
	Project numberCOM740Date2023-07-06Drawn byAuthorChecked byChecker
	Checked by Checker A106 Scale 1/8" = 1'-0"

4.1 Recommendation - Community Development Coordinator..









4.1 Recommendation - Community Development Coordinator..

Date

2024-01-03

1/8" = 1'-0"

COM740

Author

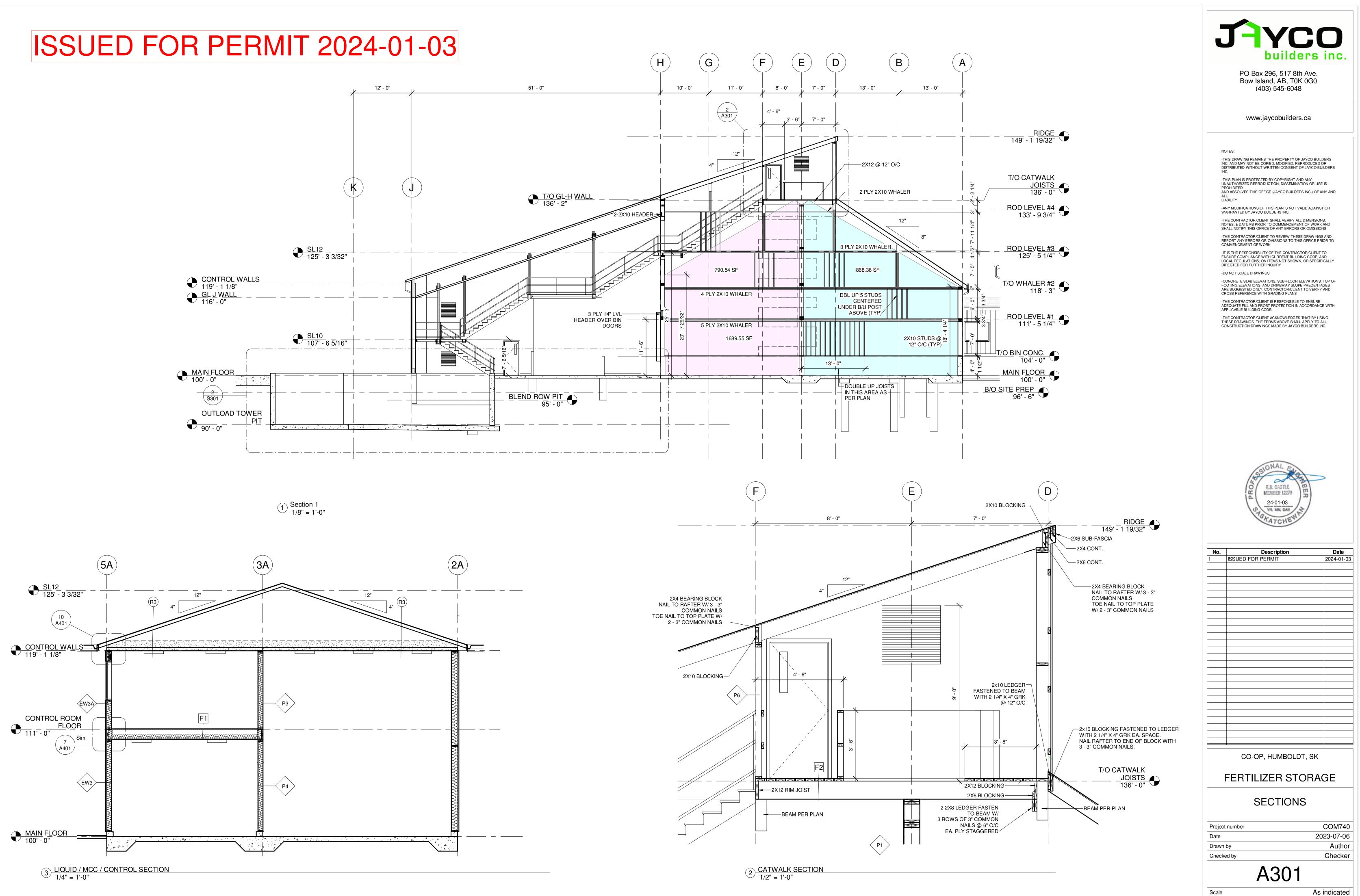
Checker

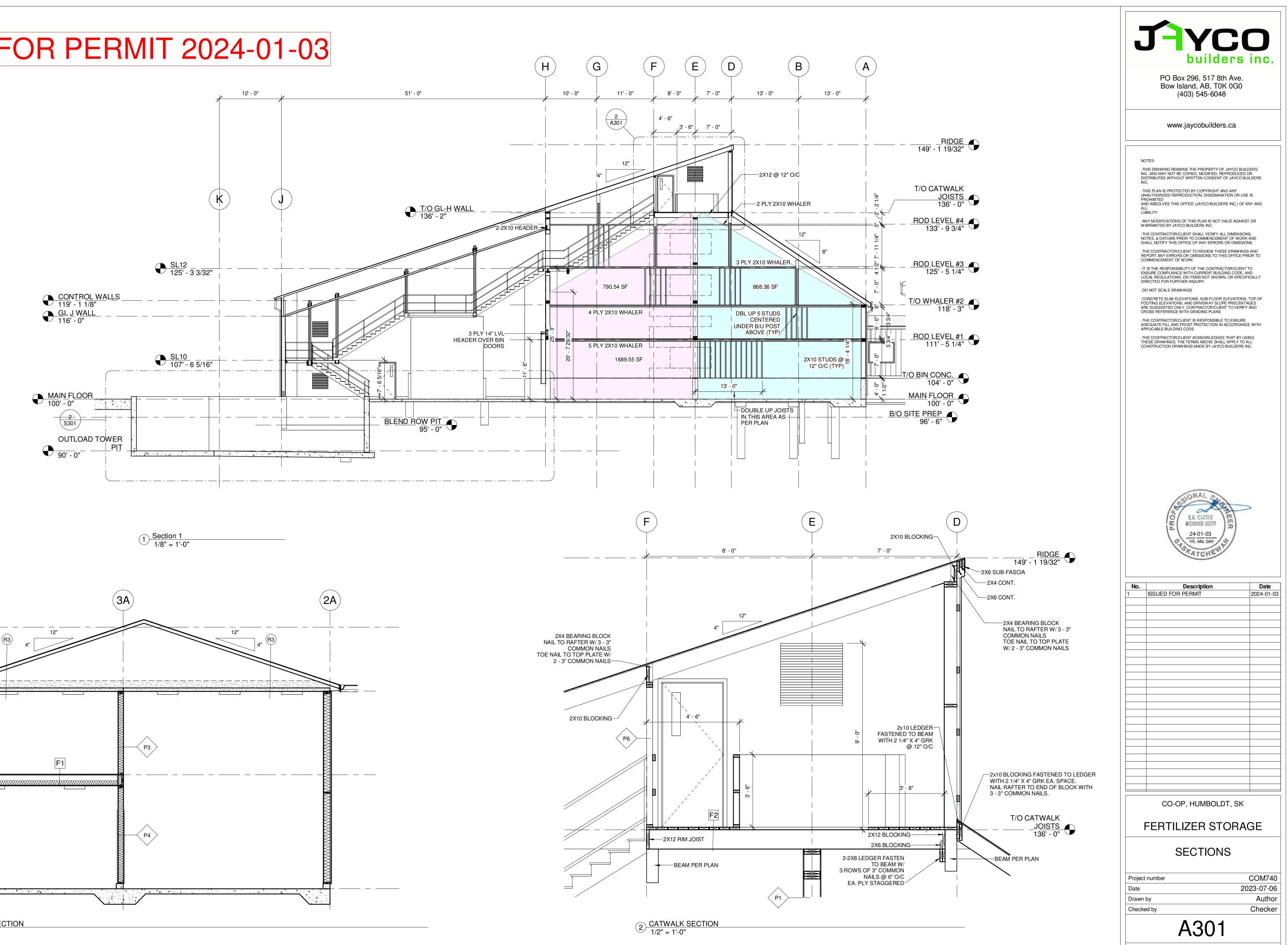
2023-07-06

Scale

Report - Discretionary Use Application - Fertilize... | Page - 20

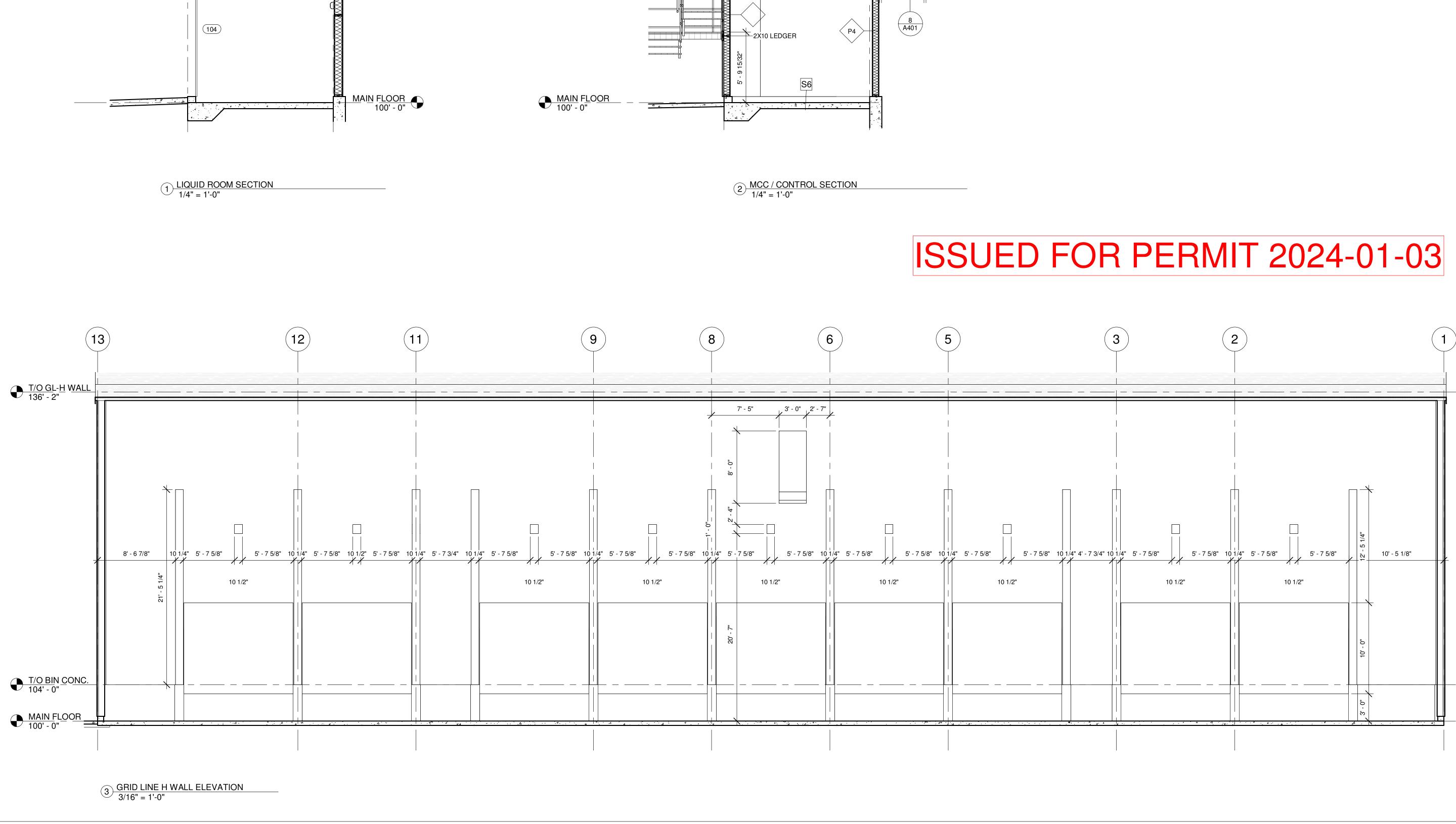
4.1 Recommendation - Community Development Coordinator.

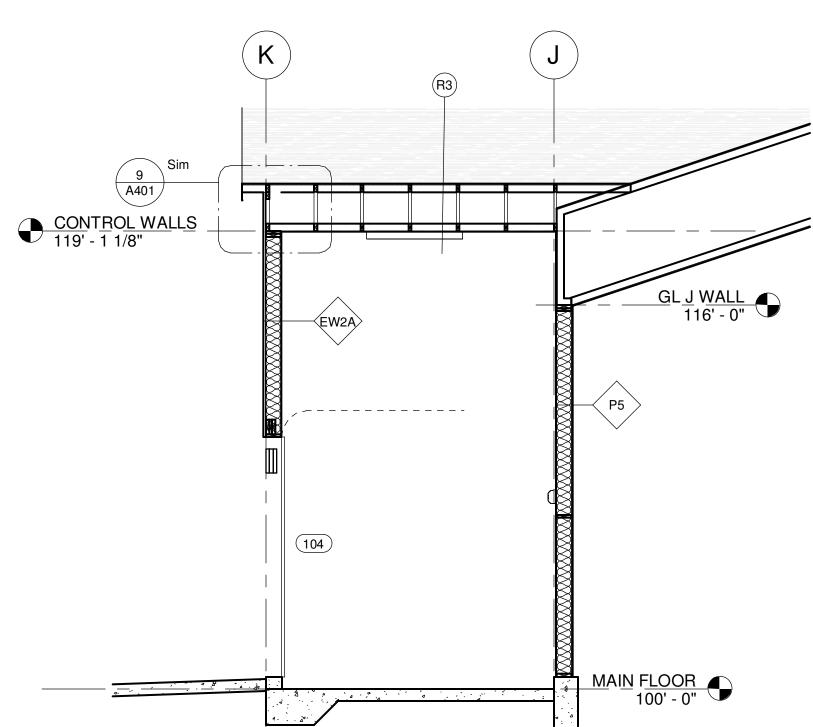


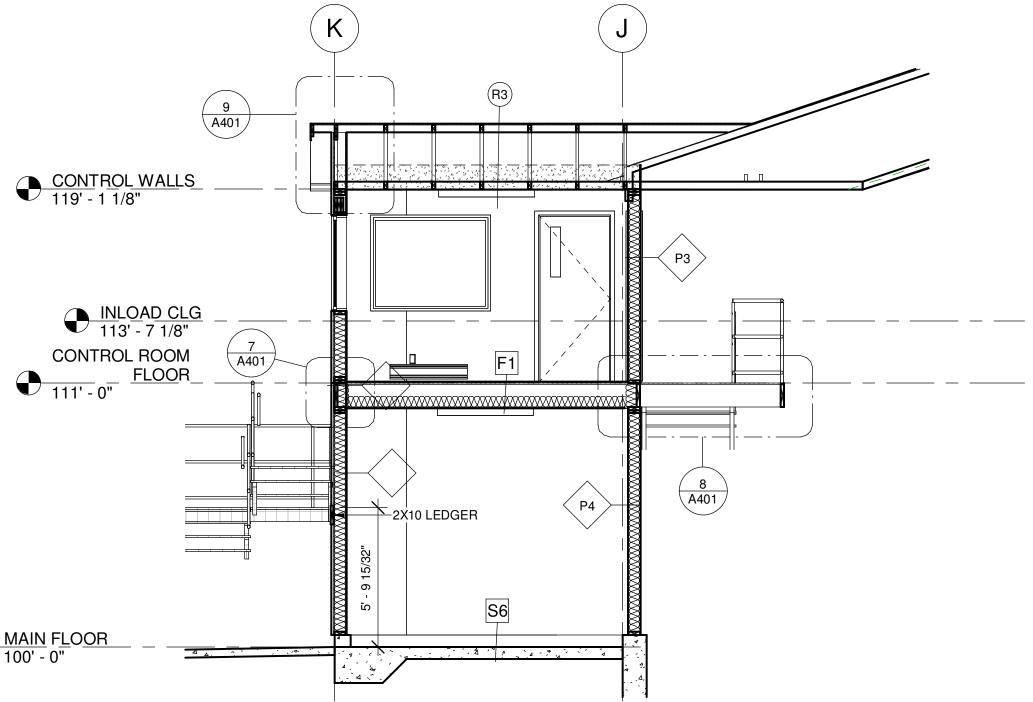


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4.1 Recommendation - Community Development Coordinator..







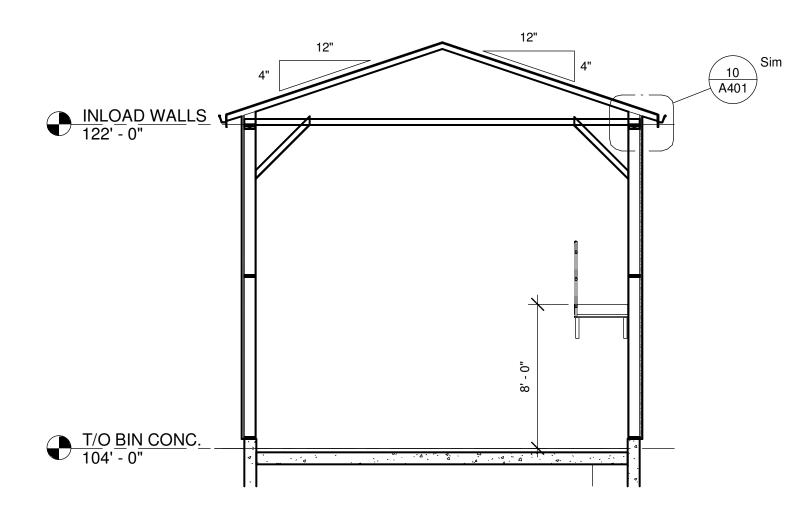


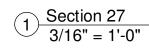
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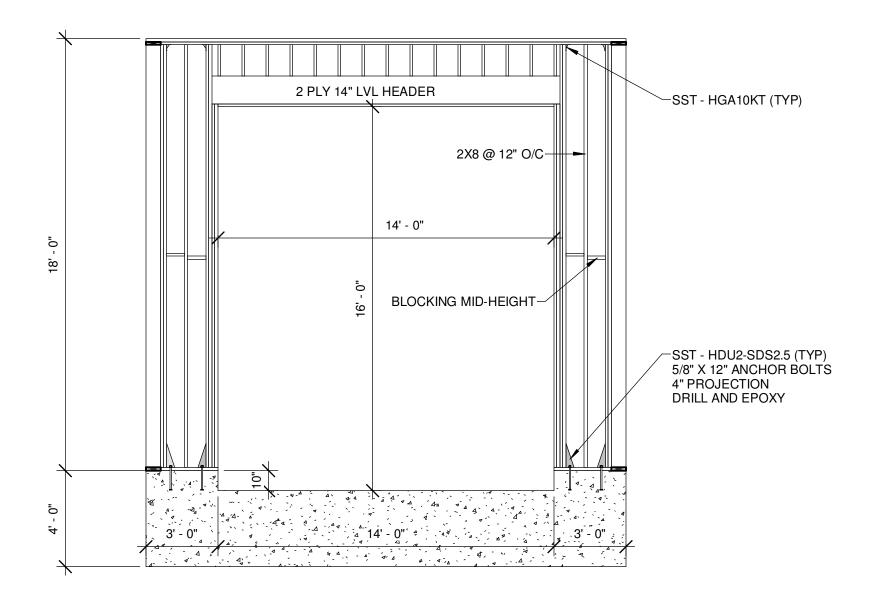
builders inc.

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As indicated







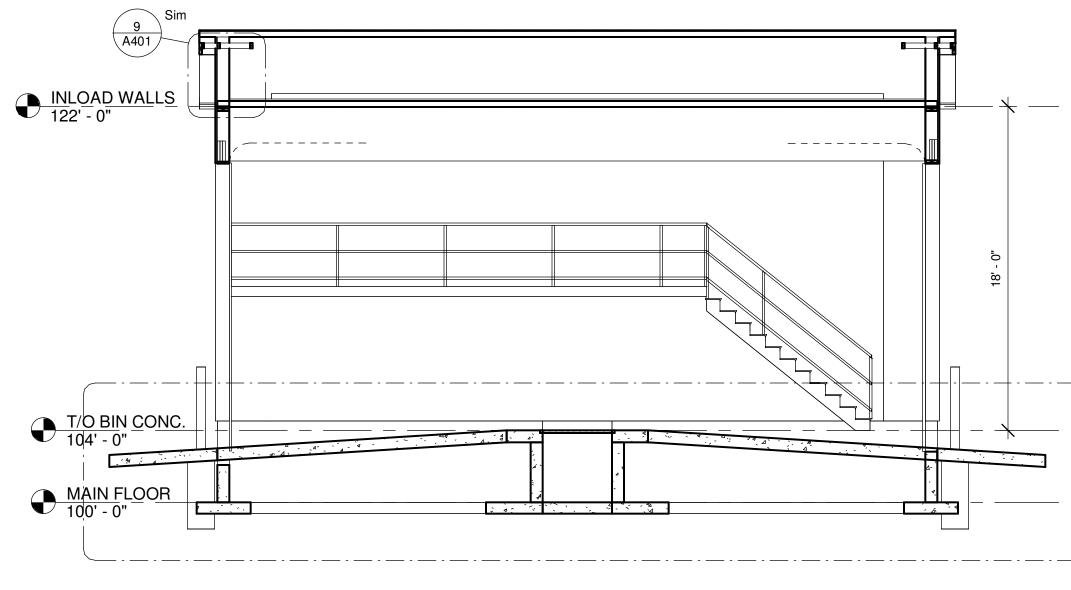
3 SHEAR FRAME 1/4" = 1'-0"

4.1 Recommendation - Community Development Coordinator..

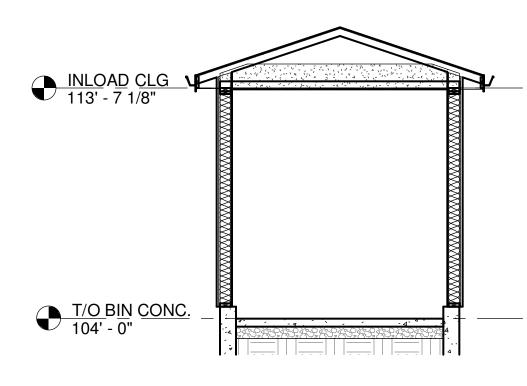
Report - Discretionary Use Application - Fertilize... | Page - 22

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1 S303

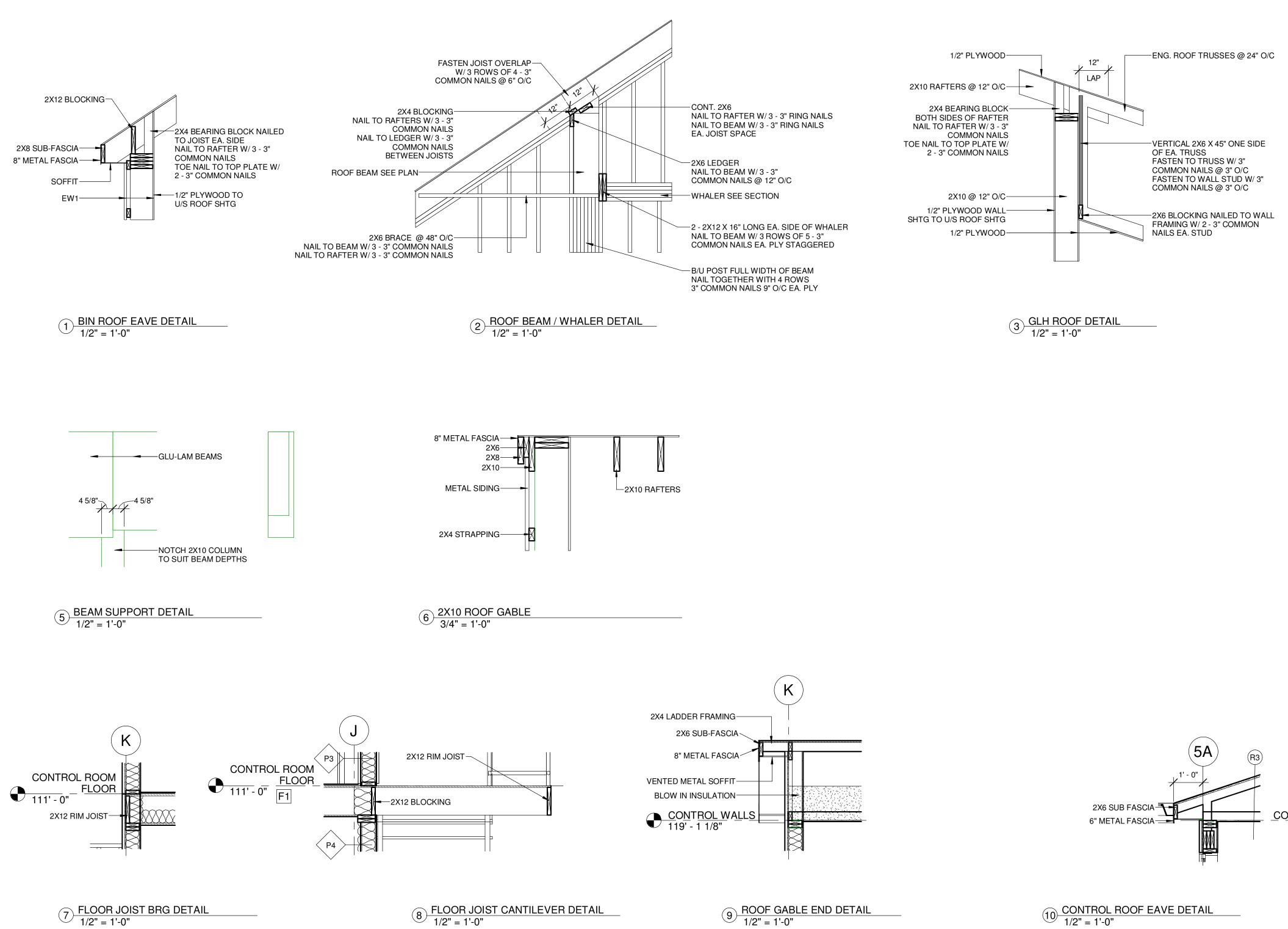


2 INLOAD SECTION1 3/16" = 1'-0"



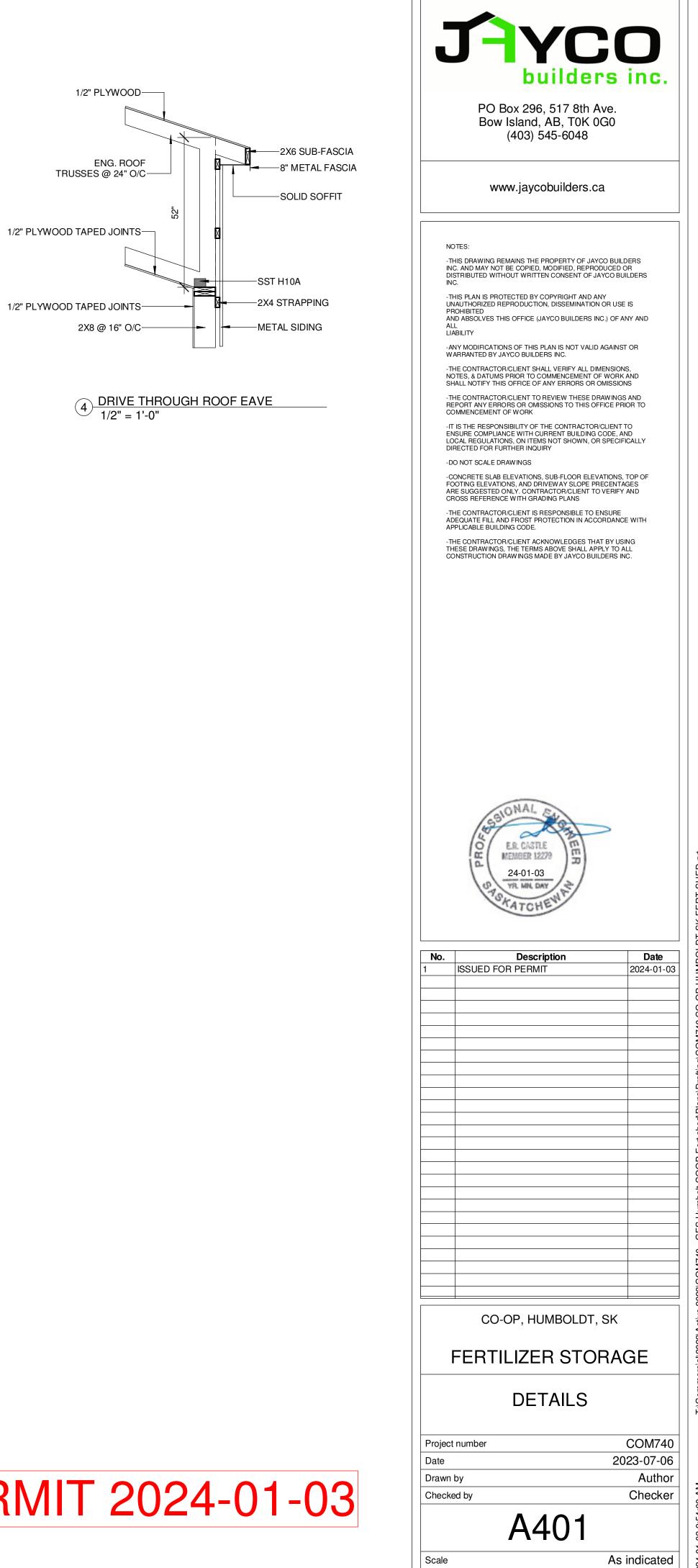
4 INLOAD FOYER SECTION 1/4" = 1'-0"

	builders	
		mo.
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	www.jaycobuilders.ca	
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F	ERTILIZER STORA	GE
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Project n Date	2	COM740 023-07-06
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<u>CONTROL WALLS</u> 119' - 1 1/8"

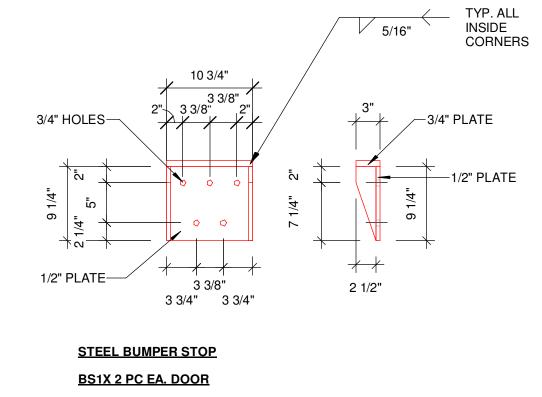


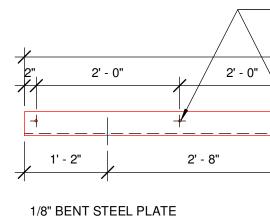


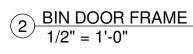
3 BIN DOOR PART BS1 1" = 1'-0"

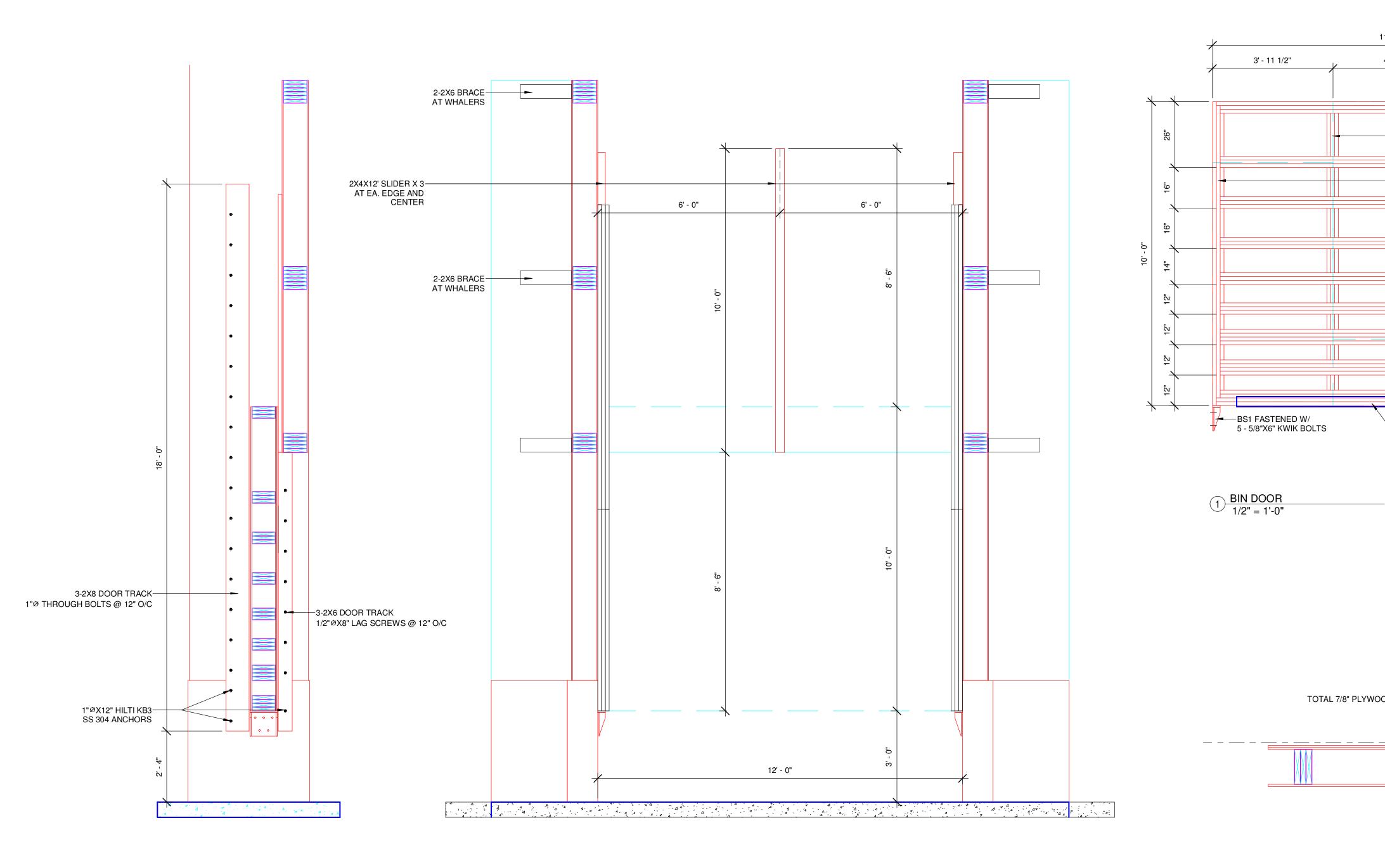
4.1 Recommendation - Community Development Coordinator...

(4) BIN DOOR PART SA1 3/4" = 1'-0"









-5/8" DIA. HOLES 10' - 4" 11 1/8" 2' - 0" 2' - 0" 2' - 0" + _____ _ __ __ __ __ __ +2' - 8" 1' - 2" 2' - 8"

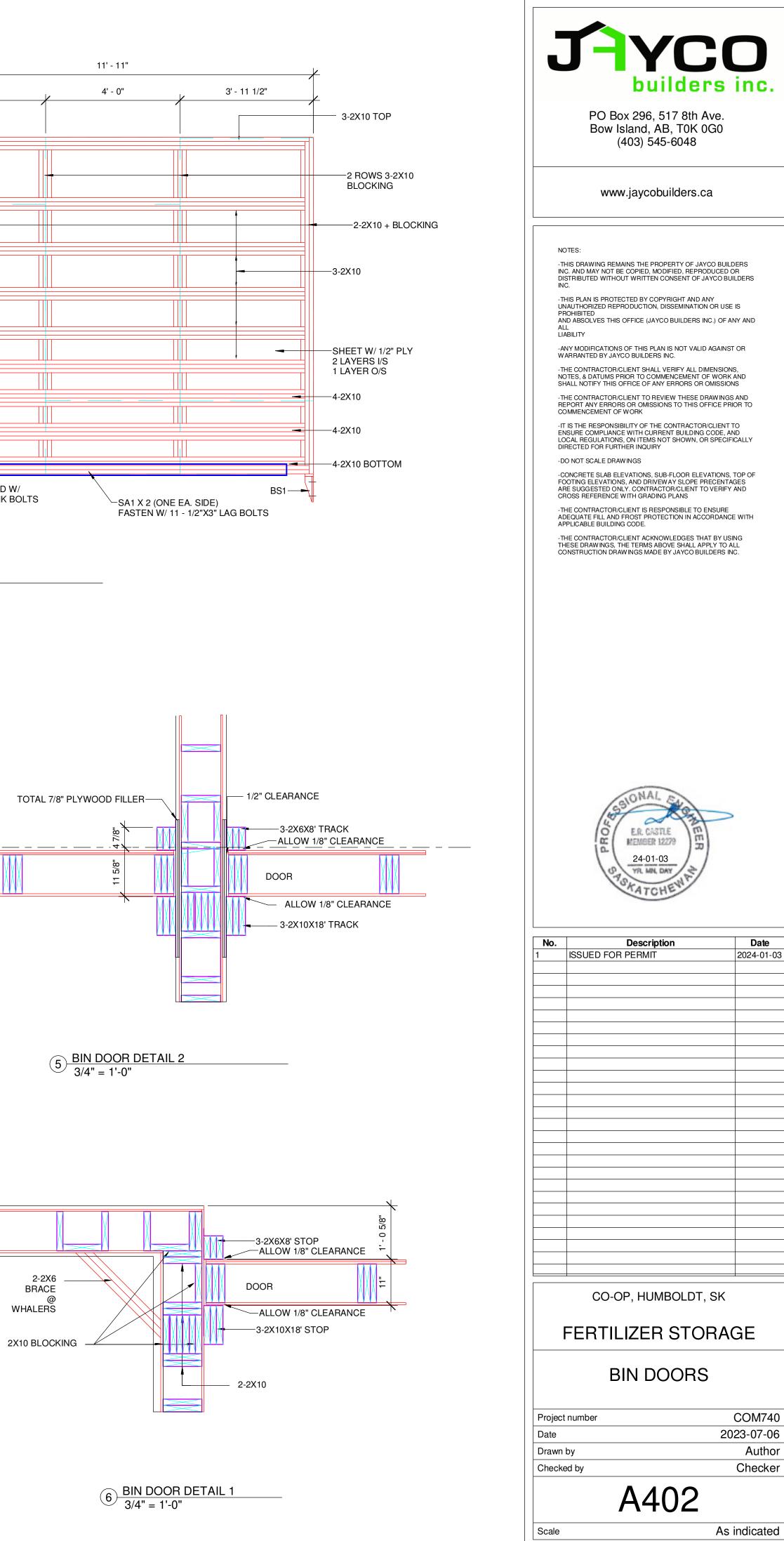
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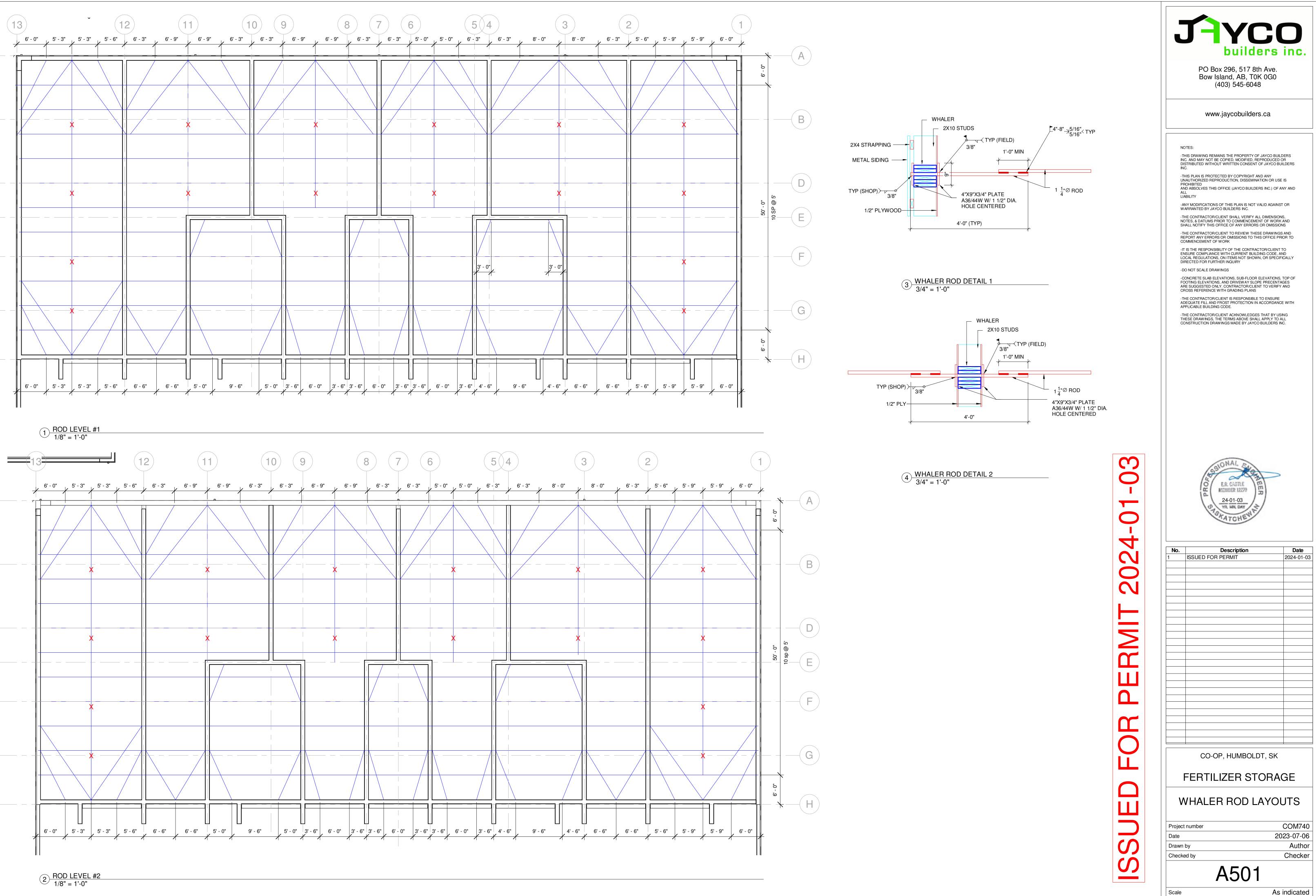
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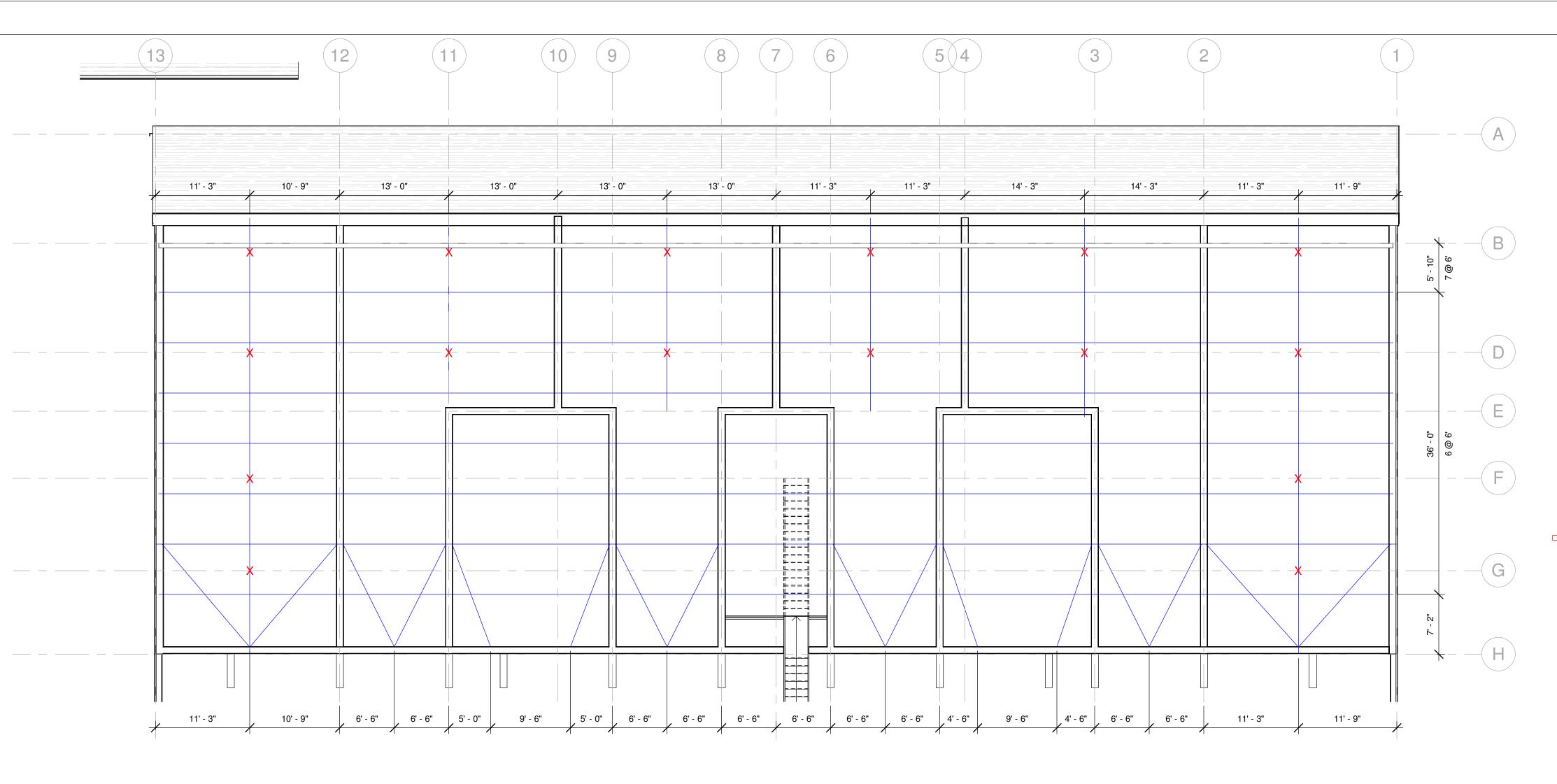
As indicated

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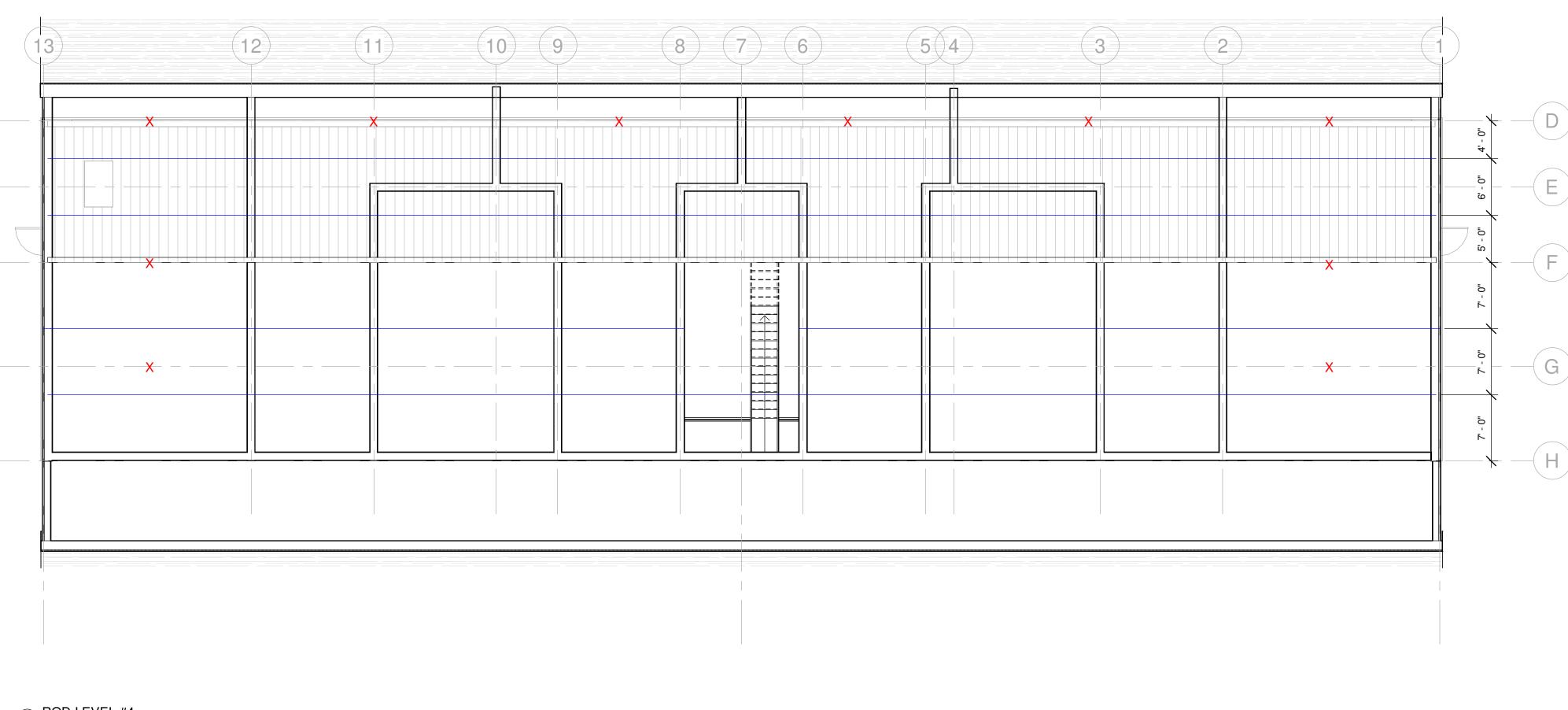
Author

Checker



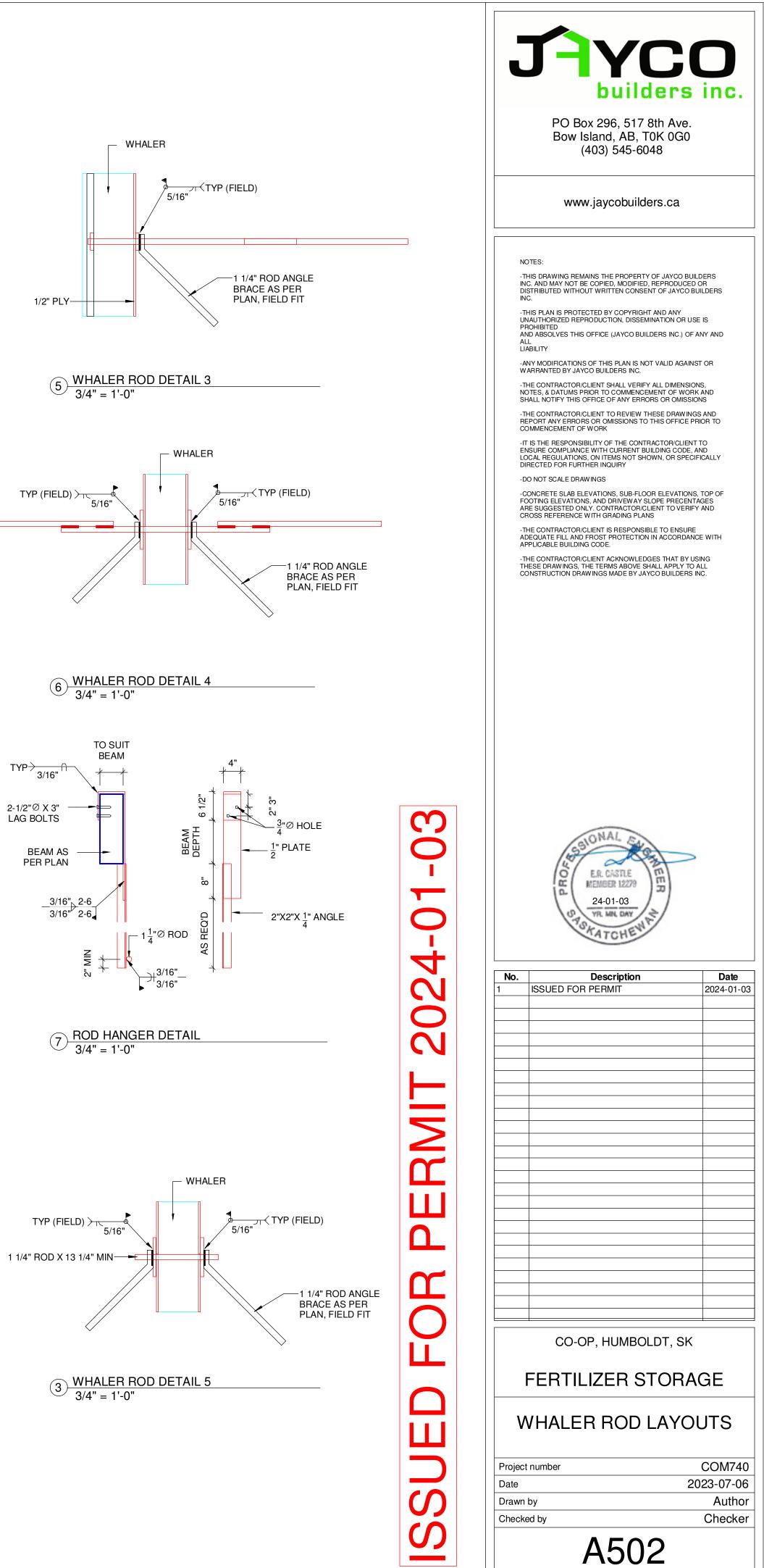


1) ROD LEVEL #3 1/8" = 1'-0"

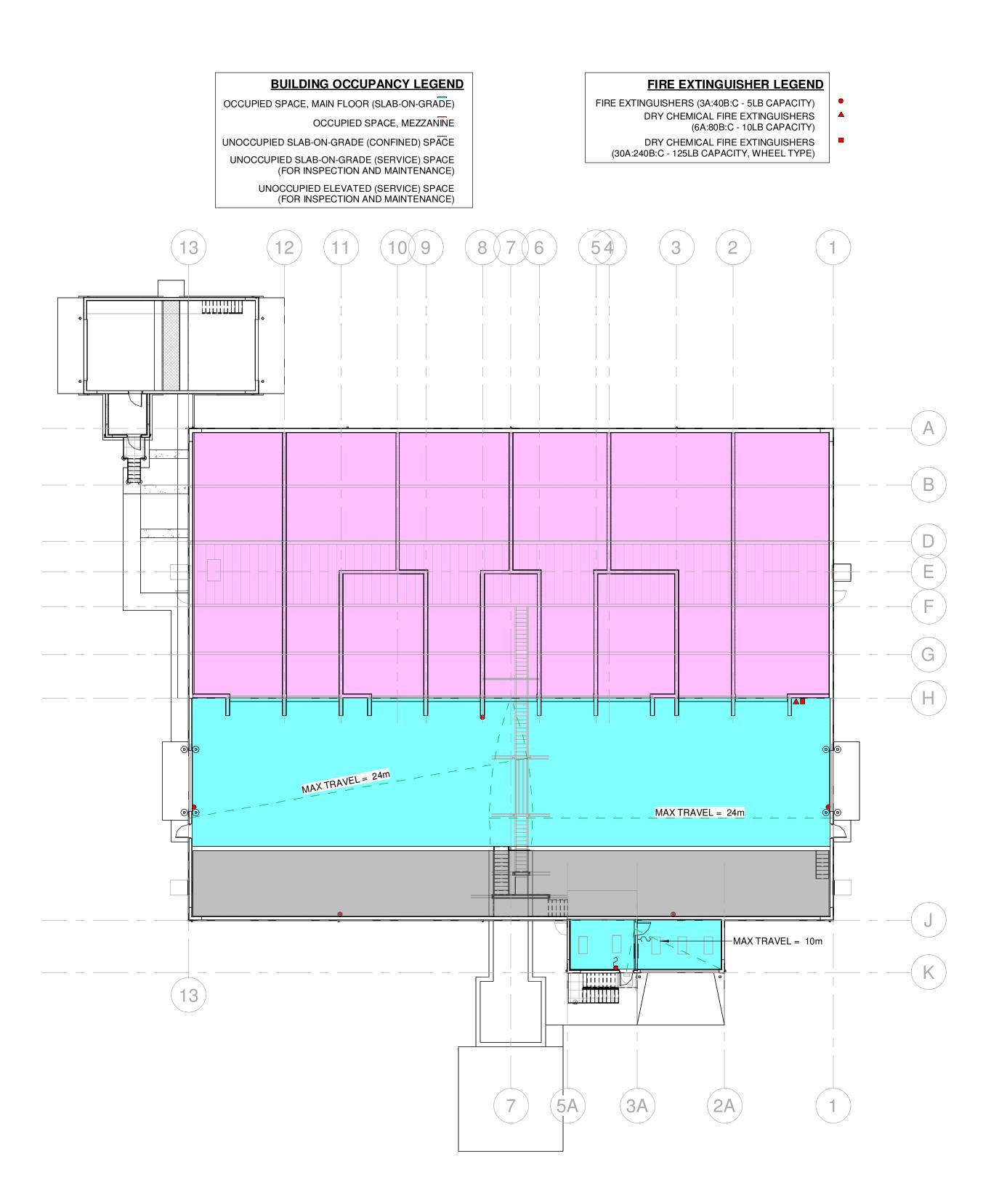


2 ROD LEVEL #4 1/8" = 1'-0"

4.1 Recommendation - Community Development Coordinator..

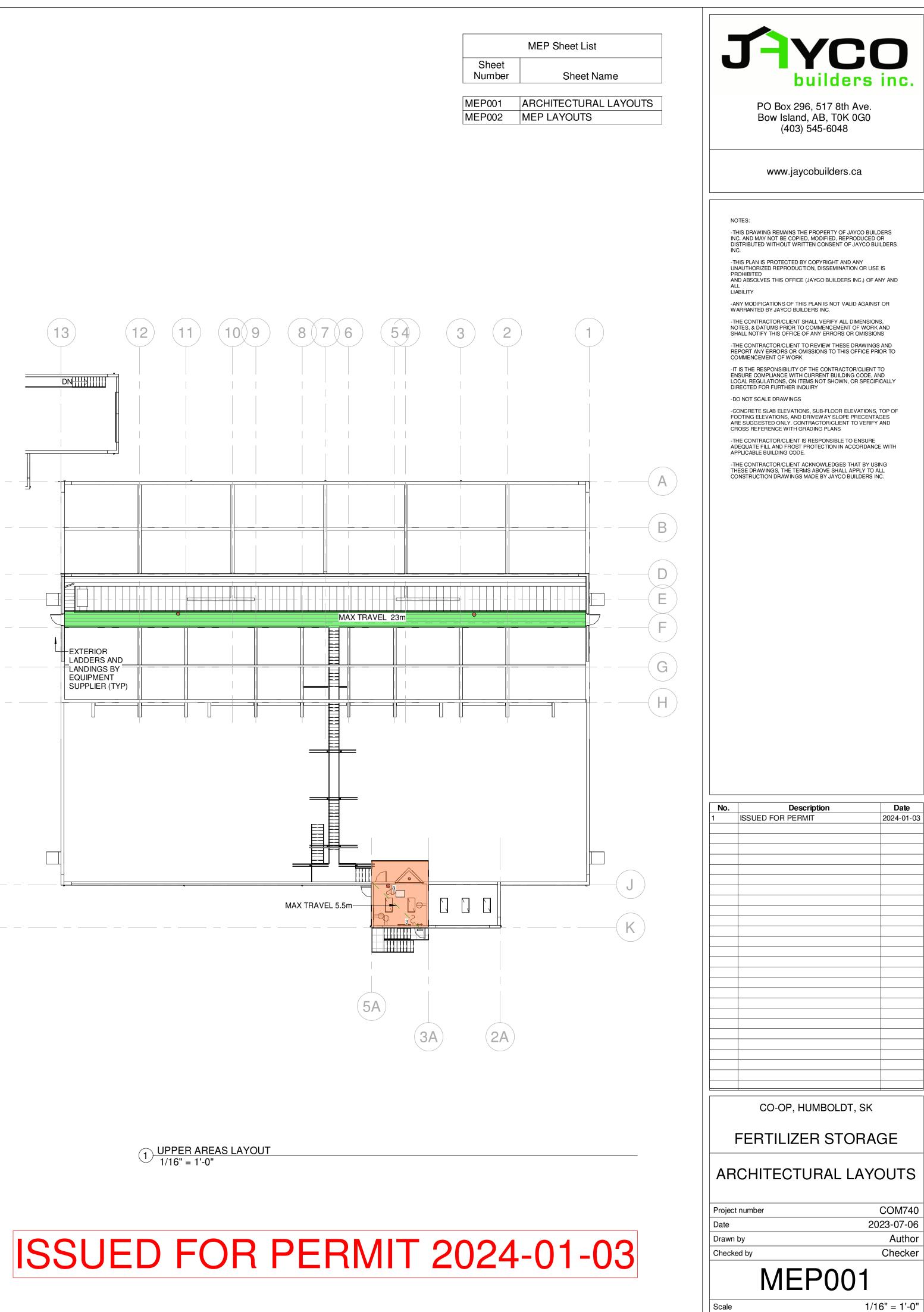


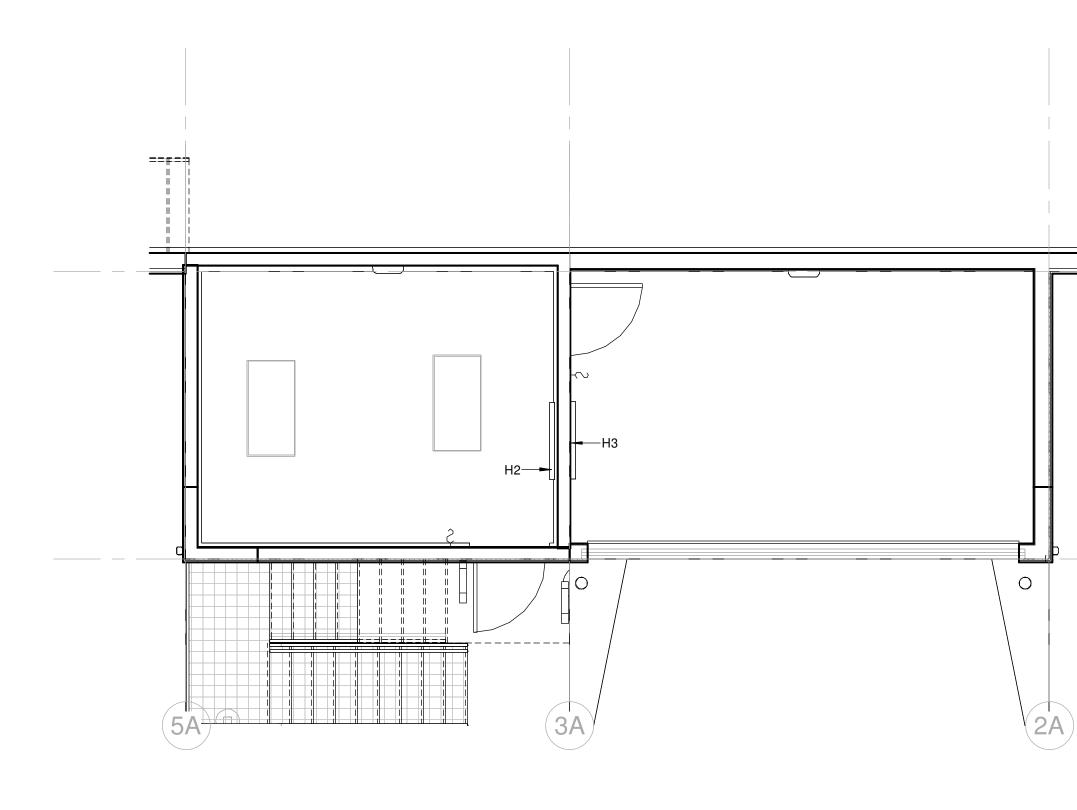
Scale



2 ARCHITECTURAL MAIN FLOOR LAYOUT 1/16" = 1'-0"

4.1 Recommendation - Community Development Coordinator.

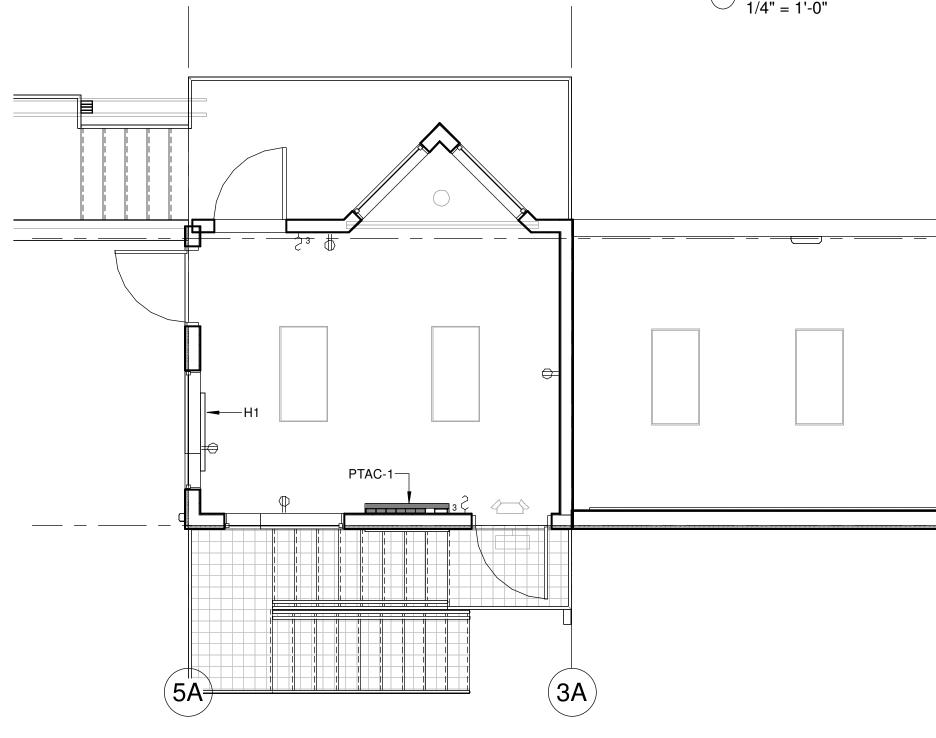




1 LIQUID / BOILER MEP PLAN 1/4'' = 1'-0''

MEP EQUIPMENT SCHEDULE			
MARK	LOCATION	DESCRIPTION	CAPACITY
H1	CONTROL ROOM	ELECTRIC BASEBOARD HEATER	4000 W / 160 CFM
H2	BOILER ROOM	ELECTRIC BASEBOARD HEATER	2000 W / 160 CFM
H3	LIQUID ROOM	ELECTRIC BASEBOARD HEATER	4000 W / 160 CFM
PTAC-1	CONTROL ROOM	HEAT / AC UNIT	15K BTU COOLING / 14.2K BTU HEAT

ς	
	SWITCH, SINGLE POLE
Ş ₃	SWITCH, THREE WAY
₽	OUTLET, DOUBLE
	2'X4' LED CEILING LIGHT, 39W
\oslash	CEILING LIGHT, 15W
	EXIT SIGN AND EMERGENCY LIGHT (6V)
	WALL PACK
	EMERGENCY LIGHT (6V BATTERY BACKUP)
	AL LEGEND
✓ 1/4" = 1'-0'	



2 CONTROL ROOM FLOOR MEP 1/4" = 1'-0"

4.1 Recommendation - Community Development Coordinator.

ELECTRICAL SPECIFICATIONS GENERAL REQUIREMENTS

WORKMANSHIP AND MATERIAL

PROVIDE ALL LABOUR, MATERIALS, PRODUCTS, EQUIPMENT, SERVICES AND ALL INCIDENTALS REQUIRED TO COMPLETE, TEST AND COMMISSION ALL ELECTRICAL WORK SHOWN ON THE DRAWINGS AND/OR NOTED HEREUNDER. DRAWINGS ARE DIAGRAMMATIC EXCEPT WHERE SPECIFIC DETAILS ARE GIVEN. OBTAIN ACCURATE DIMENSIONS FROM THE ARCHITECTURAL, STRUCTURAL, OR BY ON-SITE MEASUREMENTS. DIMENSIONS FROM THE ARCHITECTURAL, STRUCTURAL, OR BT ON-SITE MEASUREMENTS. THE ENTRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT CANADIAN LECTRIC CODE, CSA STANDARDS, CITY ELECTRICAL INSPECTION AUTHORITY'S REQUIREMENTS, AND WITH THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION. SUBMIT THE NECESSARY PLANS TO THE ELECTRICAL INSPECTION DEPARTMENT AND PAY FOR ALL PERMITS AND FEES AS REQUIRED PRIOR TO COMMENCEMENT OF WORK.

ALL MATERIALS SHALL BE NEW AND CARRY CSA APPROVAL AND CONFORM WITH EEMAC STANDARDS. ALL WORKMANSHIP SHALL BE OF A HIGH STANDARD THROUGHOU

EXECUTION OF THE WORK

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN FROM THE ENGINEER ANY NECESSARY CLARIFICATIONS AND THE SPECIFICATIONS AND DRAWINGS BEFORE PROCEEDING WITH THE WORK DRAWINGS AND SPECIFICATIONS INDICATE INTENT OF DESIGN ONLY. DRAWINGS ARE TO BE CONSIDERED AS DIAGRAMMATIC ONLY AND DO NOT SHOW ALL STRUCTURAL AND CONSTRUCTION DETAILS. OBTAIN ANY INFORMATION INVOLVING ACCURATE MEASUREMENTS OF BUILDING FROM ARCHITECTURAL AND
- STRUCTURAL DRAWINGS OR AT SITE. MAKE ANY NECESSARY CHANGES OR ADDITIONS TO ACCOMMODATE STRUCTURAL CONDITIONS. CLEAN AND TOUCH-UP SURFACES OF SHOP PAINTED EQUIPMENT SCRATCHED OR MARRED DURING SHIPMENT OR INSTALLATION, TO MATCH ORIGINAL PAINT ON COMPLETION OF THE WORK. THE CONTRACTOR SHALL PROVIDE "AS-BUILT DRAWINGS CONSISTING OF 1 SET OF PAPER DRAWINGS. THE CONTRACTOR SHALL ANSFER ALL "AS-BUILT" INFORMATION TO THE DRAWINGS
- COORDINATE AND COOPERATE WITH ALL OTHER TRADES ON SITE TO AVOID INTERFERENCE. ON COMPLETION, FURNISH A CERTIFICATE OF FINAL INSPECTION AND ACCEPTANCE BY THE AUTHORITIES HAVING JURISDICTION. UPON COMPLETION OF WORK PERFORM FINAL CLEANING. CLEAN LIGHTING REFLECTORS, LENSES AND OTHER LIGHTING SURFACES THAT HAVE BEEN EXPOSED TO **NSTRUCTION DUST AND DIRT** PROTECT ALL FINISHES AND UNFINISHED WORK OF THIS AND OTHER DIVISIONS FROM DAMAGE DUE TO CARRYING OUT OF ALL WORK. KEEP EQUIPMENT DRY AND CLEAN AT ALL TIMES.
- COVER OPENINGS IN EQUIPMENT AND MATERIALS. BE RESPONSIBLE FOR AND MAKE GOOD ANY DAMAGE CAUSED DIRECTLY OR INDIRECTLY TO WALLS, FLOORS, CEILINGS, WOODWORK, BRICKWORK, FINISHES, ETC. WHERE CABLES OR CONDUITS PASS THROUGH FLOORS AND FIRE RATED WALLS, PACK SPACE BETWEEN WIRING AND SLEEVE FULL WITH MINERAL WOOL FIRE STOPPING OR FIRE RATED SILICONE CAULKING, AND SEAL WITH APPROVED CAULKING COMPOUND. SEALING AND FIRE PROTECTION
- WHERE CABLES OR CONDUITS PASS THROUGH FIRE RATED ASSEMBLIES SUCH AS FLOORS, WALLS, CEILING ETC., AND THE FIRE RATING OF THESE ASSEMBLIES SHALL BE MAINTAINED. USE APPROVED AND ULC LISTED FIRESTOP MATERIALS AND METHODS. PROVIDE MANUFACTURER LITERATURE SHOWING THAT THE PROPOSED FIRESTOP SYSTEM IS A ULC LISTED SYSTEM FOR THE APPLICATION. WHERE CABLES OR CONDUITS PASS THROUGH SMOKE RATED ASSEMBLIES' SUCH AS FLOORS, WALLS, CEILING ETC., THE SMOKE RATING OF THESE ASSEMBLIES SHALL BE MAINTAINED. ENSURE THAT THESE OPENINGS ARE SEALED WITH AN APPROVED SYSTEM TO PREVENT THE TRANSMISSION OF SMOKE. CONFIRM THE SYSTEM TO BE USED ON SITE WITH THE ENGINEER.

AS-BUILT DRAWINGS

TESTING

- THE ELECTRICAL TRADE WILL BE PROVIDED ONE SET OF CLEAN PRINTS. THESE PRINTS ARE TO BE USED TO RECORD WORK AS ACTUALLY INSTALLED AND EXISTING AS-BUILT INFORMATION. ELECTRICAL TRADE SHALL ACCURATELY RECORD ON THIS SET OF PLANS (RECORD DRAWINGS), DAY BY DAY, ALL OUTLETS, CONDUIT, LUMINARIES, EQUIPMENT, ETC. AS ACTUALLY INSTALLED ON THE JOB. ANY CHANGES TO THE WORK SHALL BE SIMILARLY RECORDED. RECORD DRAWINGS SHALL BE CLEARLY MARKED IN RED INCLUDING ALL CHANGES TO THE ORIGINAL DRAWINGS. RECORD DRAWINGS SHALL INCLUDE ALL COMMUNICATIONS, SECURITY AND OTHER ELECTRICAL SYSTEMS, RACEWAYS, WIRING AND SCHEMATICS AS REQUIRED
- FACILITATING FUTURE TROUBLE SHOOTING. THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER A SET OF AS-BUILT DRAWINGS.
- MEASURE PHASE CURRENTS OF PANEL BOARDS WITH NORMAL LOADS (LIGHTING) OPERATING. ADJUST BRANCH CIRCUIT CONNECTIONS AS REQUIRED TO OBTAIN BALANCE OF CURRENT BETWEEN PHASES NOT EXCEEDING 10% MAXIMUM AND RECORD CHANGES. MEASURE PHASE VOLTAGES AT LOADS AND ADJUST TRANSFORMER TAPS TO WITHIN 2% OF RATED VOLTAGE OR EQUIPMENT. PERFORM ALL NECESSARY TESTS TO CONFIRM THE CORRECT OPERATION OF ALL SYSTEMS.
- SUPPORTING DEVICES
- INSTALL TO MAINTAIN HEAD ROOM, NEAT MECHANICAL APPEARANCE AND TO SUPPORT EQUIPMENT LOADS REQUIRED. WHERE INSERTS ARE REQUIRED IN CONCRETE, EXPANSION INSERTS, LEAD INSERTS OR PLASTIC INSERTS MAY BE USED IN DRILLED HOLES. WOOD OR FIBRE PLUGS NOT PERMITTED. ALL ELECTRICAL DISTRIBUTION INCLUDING CABLE TRAY AND CONDUIT, WHICH IS MOUNTED ABOVE THE SUSPENDED CEILING, SHALL BE SUPPORTED DIRECTLY AND
- INDEPENDENTLY FROM THE SUPPORT STRUCTURE ABOVE THE USE OF ANY PART OF THE CEILING OR CEILING SUSPENSION SYSTEM AS A SUPPORT OR FOUNDATION FOR THE SUSPENSION OF CABLE TRAY, CONDUIT OR FLEXIBLE CONDUIT (WHERE PERMITTED) IS FORBIDDEN SUPPORT HANGERS AND TRAYS INSTALLED BY THE ELECTRICAL TRADE SHALL NOT BE USED BY OTHER TRADES TO SUPPORT NON-ELECTRICAL SERVICES OR DEVICES
- CONDUIT CONDUIT IN GROUND TO BE RIGID PVC, UNLESS NOTED OTHERWISE. CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING LINES. CONDUITS SHALL BE CONCEALED IN FRAMED WALLS WHEREVER POSSIBLE.
- IN EACH CONDUIT LEFT EMPTY, INSTALL A CONTINUOUS 180 KG TEST NYLON CORD. LABEL AND CAP SUCH CONDUITS AT EACH END. PROVIDE JUNCTION AND OUTLET BOXES WHERE NECESSARY FOR PROPER PULLING OR SPLICING OF WIRES. PROVIDE OUTLET BOX FOR LIGHTING FIXTURES, WIRING DEVICES, COMMUNICATION OUTLETS AND AS INDICATED. BOXES TO BE ELECTRO-GALVANIZED STEEL. PROVIDE GANG BOXES WHERE WIRING DEVICES ARE GROUPED. SUPPORT BOXES INDEPENDENTLY OF CONNECTION CONDUITS. DO NOT INSTALL OUTLET BOXES BACK-TO-BACK IN WALLS. SUCH OUTLETS MUST BE STAGGERED AND SEALED AGAINST NOISE TRANSMISSION. WIRE AND CABLE
- BUILDING AND CONTROL WIRES SHALL BE 300 VOLT, COPPER, NMD-90 OR NMW U-90 CABLE. WHENEVER WIRE SIZES ARE NOT INDICATED ON THE DRAWINGS IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE CONDUCTORS ARE SIZED IN ACCORDANCE WITH THE CEC, INCLUDING ALL DE-RATING FACTORS FOR CONDUIT FILL AND VOLTAGE DROP DUE TO DISTANCE. PANELBOARDS
- PANEL BOARDS SHALL INCLUDE ALL CIRCUIT BREAKERS WITH POLES AND TRIP RATINGS AS LISTED IN THE SCHEDULES.
- CIRCUIT BREAKERS SHALL BE EITHER PUSH-IN-PLACE TYPE OR BOLT-IN-PLACE TYPE MOULDED CASE AUTOMATIC AIR CIRCUIT BREAKERS WITH BOTH THERMAL AND MAGNETIC TRIP AND TRIP FREE ACTION. EACH BREAKER SHALL BE IDENTIFIED AS TO FUNCTION AND THE LOAD CONTROLLED. PANEL BOARDS SHALL BE OF CORROSION-RESISTANT FINISH HAVING TRIM FOR FLUSH OR SURFACE MOUNTING AS INDICATED IN THE SCHEDULES. PANEL BOARD TRIM SHALL HAVE A HINGED LOCKING DOOR WITH FLUSH TYPE CATCH AND LOCK OVER CIRCUIT BREAKER. PROVIDE TYPE WRITTEN DIRECTORIES FOR ALL PANEL BOARDS.

450MM

- WIRING DEVICES AND COVER-PLATES CONFIRM COLOUR OF DEVICES AND COVER PLATES WITH THE OWNER
- MOUNTING HEIGHTS FROM FINISHED FLOOR TO CENTRE OF THE DEVICE, UNLESS INDICATED OTHERWISE, SHALL BE OUTLET ABOVE COUNTER OR BACKSPLASH 150MM ABOVE COUNTER LIGHT SWITCHES 1200MM
- DUPLEX RECEPTACLE THERMOSTATS
- 1550MM 150MM ABOVE COUNTER TELEPHONE OUTLETS USE MULTI-GANG PLATES WHERE TWO OR MORE OUTLETS ARE LOCATED TOGETHER. PROVIDE BLANK COVER PLATES FOR BOXES WITHOUT WIRING DEVICES. WHERE LIGHTING DIMMERS ARE SHOWN, USE SEPARATE SINGLE GANG BOXES ONLY.

LUMINAIRES, AS SPECIFIED, SHALL BE COMPLETE WITH THE APPROPRIATE LAMPS.

MERGENCY BATTERY PACK AND EXIT LIGHTING

- STANDARD PROFILE, EXTRUDED ALUMINUM HOUSING, LED ILLUMINATED, GREEN LETTERING. EXIT SIGN SHALL BE FOR 120/VAC, 12VDC OPERATION, AND SINGLE OR DOUBLE FACED AS REQUIRED EXIT SIGNS SHALL BE AS NOTED ON EXIT SIGN SCHEDULE ON DRAWINGS. INSTALL EXIT SIGNS WHERE INDICATED ON THE DRAWINGS. ENSURE THAT THE EXIT SIGN IS VISIBLE FROM THE MAXIMUM VIEWING AREA. EXIT SIGNS TO BE BREAKER CONTROLLED FROM PANEL WITH DEDICATED BREAKER SUITABLY IDENTIFIED. PROVIDE AN EMERGENCY DC VOLTAGE BATTERY PACK AND REMOTE HEAD LIGHTING SYSTEM FOR AUTOMATIC OPERATION ON UTILITY POWER FAILURE. PROVIDE LIGHTING UNITS AS INDICATED ON THE DRAWINGS. UNITS TO BE 12 VOLT DC OPERATING VOLTAGE WITH 120 VOLT 60HZ SUPPLY CONNECTION. UNIT TO BE COMPLETE WITH THE FOLLOWING. SEALED PURE LEAD BATTERY FULLY AUTOMATIC CHARGER
 - AUTOMATIC CHANGE OVER RELAY BUILT-IN TEST SWITCH AC 'ON' PILOT LIGHT

GROUNDING

UTILITY POWER SERVICE

MECHANICAL WIRIN

Κ

(2A)

- AUTOMATIC BATTERY EXERCISE UNIT TO BE CSA APPROVED. UNIT TO BE DESIGNED FOR 12 VOLT OPERATION WITH A MINIMUM OPERATING TIME OF 1/2 HOUR WHEN LOADED BY ALL LIGHTING HEADS AND EXIT SIGN EMERGENCY LAMPS. UNITS TO BE SURFACE WALL MOUNTED. UNITS TO BE AS NOTED ON EMERGENCY LIGHTING SCHEDULE ON DRAWINGS. CABINET TO BE SIZED ACCORDING TO LOAD AND TO INCLUDE 25% SPARE CAPACITY. APPROVED MANUFACTURERS SHALL BE DUAL LITE, EMERGI-LITE, AND READY
- PROVIDE REMOTE LIGHTING HEADS FOR SURFACE WALL MOUNTING OR PENDANT HUNG FROM CEILING AS INDICATED ON THE DRAWINGS. REMOTE HEADS TO BE AS NOTED IN EMERGENCY LIGHTING SCHEDULE ON DRAWINGS. LOCATION & QUANTITY OF HEADS TO BE AS INDICATED ON DRAWINGS. APPROVED MANUFACTURERS SHALL BE DUAL LITE, EMERGI-LITE, AND READY UTE.
- THE BATTERY-OPERATED EMERGENCY LIGHTING UNITS TO BE SURFACE WALL MOUNTED, AS INDICATED, CONNECTED TO INDEPENDENT POWER CIRCUIT. BATTERY PACK TO BE HARD WIRED TO OUTLET BOX. DO NOT USE RECEPTACLE/CORD SET CONNECTION. ALL EMERGENCY, BATTERY POWERED LIGHTING EQUIPMENT SHALL BE CSA CERTIFIED AND SIZED ADEQUATELY TO HANDLE THE LIGHTING LOAD REQUIRED BY

SUPPLY AND INSTALL A COMPLETE GROUNDING SYSTEM. THE GROUNDING/EARTHING SYSTEM MUST MEET THE FOLLOWING CRITERIA: LL GROUNDING CONDUCTORS SHALL BE COPPER CABLE ASSEMBLIES SHALL BE UL LISTED AND CSA CERTIFIED.

PROVIDE ALL NECESSARY CONDUIT WIRE, ETC. AS INDICATED ON THE DRAWINGS FOR A COMPLETE SERVICE CONNECTION.

- CONTRACTOR SHALL CONFIRM ALL MOTOR LOADS WITH SUPPLIER AND PROVIDE ELECTRICAL PROTECTION ACCORDING TO THE ACTUAL REQUIREMENT IN CCORDANCE WITH THE CEC INCLUDE MOTOR STARTERS, DISCONNECTS, CONDUITS, WIRE FITTINGS, INTERLOCKS, OUTLET BOXES, JUNCTION BOXES, AND ALL ASSOCIATED EQUIPMENT
- REQUIRED TO PROVIDE POWER WIRING FOR MECHANICAL EQUIPMENT. ALL EQUIPMENT MOUNTED ON THE EXTERIOR OF THE BUILDING SHALL BE WEATHERPROOF
- INSTALL MOTOR FEEDERS. STARTER DISCONNECTS AND ASSOCIATED EQUIPMENT AND MAKE CONNECTIONS TO ALL MOTORS NSTALL WIRING TO STARTERS FURNISHED WITH EQUIPMENT AND FROM REMOTE STARTERS AND MOTORS AND EQUIPMENT
- INSTALL BRANCH CIRCUIT WIRING FOR CONTROL CIRCUITS. WIRE AND CONNECT THERMOSTATS FOR FORCE FLOWS AND UNIT HEATERS. WIRE AND CONNECT ELECTRICAL INTERLOCKS FOR STARTERS

MISCELLANEOUS APPARATUS AND APPLIANCES

- MAKE ALL REQUIRED ELECTRICAL CONNECTIONS TO DEVICES, EQUIPMENT, APPLIANCES, ETC. FURNISHED BY OTHER TRADES OR OWNER SUPPLIED, AS INDICATED OR IMPLIED ON THE DRAWINGS. VERIFY ELECTRICAL SUPPLY CHARACTERISTICS OF ALL EQUIPMENT. PROVIDE ALL REQUIRED ELECTRICAL DEVICES, COMPONENTS, CONDUITS, FITTINGS, WIRING, DISCONNECTS AND MISCELLANEOUS EQUIPMENT TO MAKE ALL
- CONNECTIONS TO EQUIPMENT. WHERE EQUIPMENT HAS LINE CORD AND PLUG, ENSURE CAP IS COMPATIBLE WITH RECEPTACLE. PROVIDE CORD SETS WHERE REQUIRED. THE CONTRACTOR IS TO CONFIRM THE EXACT METHOD FOR FINAL CONNECTION OF ALL OWNER'S EQUIPMENT THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING THE REQUIRED CONNECTION DEVICES FOR EACH PIECE OF EQUIPMENT. PROVIDE AND INSTALL MISCELLANEOUS ELECTRICAL COMPONENTS WHERE INDICATED.
- HEAT TRACING HEAT TRACING TO BE RAYCHEM XL TRACE PIPE FREEZE PROTECTION OR EQUAL. END TERMINATION KITS ARE TO BE INSTALLED AS REQUIRED

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PANELBOARDS VOICE AND DATA

MECHANICAL SPECIFICATIONS GENERAL REQUIREMENTS

APPROVALS

IDENTIFICATION

PIPE AND FITTINGS

7.

VALVES

VIBRATION ISOLATION

INSULATION

FIRE PROTECTION

PLUMBING

PROVIDE A COMPLETE AND FULLY OPERATIONAL MECHANICAL / VENTILATION SYSTEM

CLOSING FOR RECTIFICATION BY ADDENDUM. EACH CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR LAYING OUT HIS WORK IN ACCORDANCE WITH THE DRAWINGS AND FOR ANY DAMAGE CAUSED BY IMPROPER EXECUTION OF HIS WORK. CARRY ALL NECESSARY INSURANCE COVERAGE WORK PRODUCTS AND QUALITY

ANY DISCREPANCIES AND OMISSIONS DISCOVERED SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY AND PRIOR TO TENDER

EQUIPMENT AND MATERIALS TO BE NEW AND FREE FROM DEFECTS AND HAVE DESIGN CHARACTERISTICS AS SPECIFIED. ALL WORK AND MATERIALS SHALL BE INSTALLED AS SHOWN AND IN ACCORDANCE WITH THE NATIONAL BUILDING CODE AND ALL LOCAL CODES AND BUILDING REGULATIONS. ALL EQUIPMENT SHALL BE CSA APPROVED.

FLASHING AND COUNTER FLASHING ALL MECHANICAL WORK PASSING THROUGH THE WALL SHALL BE FLASHED BY THE MECHANICAL CONTRACTORS. COUNTERFLASHING TO BE DONE BY THE ROOFING CONTRACTOR.

REQUEST FOR APPROVAL OF EQUIPMENT NOT SPECIFIED ON DRAWINGS SHALL BE MADE TO THE ENGINEER.

ELECTRIC MOTOR AND WIRING SUPPLY ALL MECHANICAL EQUIPMENT COMPLETE WITH ELECTRIC MOTORS AND CONTROL WIRING FOR ALL MECHANICAL EQUIPMENT AS ELECTRICAL CONTROLS CONNECTED TO MECHANICAL EQUIPMENT SHALL BE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR

THE MECHANICAL CONTRACTOR SHALL SUPPLY AND PERMANENTLY INSTALL LAMACOIDS TO PROVIDE IDENTIFICATION OF ALL INSTALLED EQUIPMENT (BOILERS, HVAC UNITS, EXHAUST FANS AND THEIR SWITCHES ALL VALVES AND SWITCHES SHALL BE TAGGED OR LABELED WITH FRAMED DIRECTORY, WALL MOUNTED IN MECHANICAL ROOM. PLUMBING GENERAL

PROVIDE COMPLETE DOMESTIC WATER, DRAINAGE AND VENT PIPING SERVING ALL PLUMBING FIXTURES, CONNECT TO EXISTING WATER AND SEWER LINES SHOWN ON DRAWINGS. INCLUDE COST OF ALL UTILITIES SERVICE CHANGES. ENSURE THAT SEWER SERVICES ARE RUN WITH SUFFICIENT SLOPE FOR DRAINAGE AND ADEQUATE COVER TO AVOID FREEZING. INCLUDE BACKWATER VALVE ON SEWER SERVICES AND NEW DOUBLE CHECK VALVE ASSEMBLY ON WATER SERVICE LINE. CONTRACTOR TO INCLUDE DISINFECTIING OF WATER LINES TO SUIT STANDARDS AND REQUIREMENTS OF AUTHORITIES HAVING IUBISDICTION STEBILIZE WATER SERVICES 1 1/2" OR GREATER WITH CHI OBINE AND PROVIDE DETAILED WRITTEN RECORDS. ELUSH SYSTEM AND HAVE BACTERIOLOGICAL TESTS COMPLETED AT A CRETIFIED LABORATORY, INCLUDE IN MECHANICAL TENDER THE EXTRA COST OF HAVING THE TEST VERIFIED BY A PROFESSIONAL ENGINEER POVIDE MANUFACTURED SHOCK ABSORBERS OR AIR CHAMBERS TO PREVENT PIPE WATER HAMMER. INSTALL ON ALL HOT AND COLD WATER SUPPLIES TO EACH FIXTURE OR GROUP OF FIXTURES, AIR CHAMBERS SHALL BE MINIMUM 3/4" AND 18" LONG. INSTALL OVERSIZED CLAMPS AND 1/2" ARMAFLEX FOAM RUBBER INSULATION, 3' LONG AROUND EACH PLUMBING DRAINAGE STACK AND EACH DOMESTIC WATER PIPE AT EACH SUPPORT POINT THROUGH A WOODEN STRUCTURE. PROVIDE VACUUM BREAKERS ON LINES SERVING EQUIPMENT OR FIXTURES WHERE CONTAMINATION OF DOMESTIC WATER MAY OCCUR. INSTALL BACKFLOW PREVENTER (WATTS 900 SERIES OR APPROVED EQUAL) ON ALL POTABLE WATER LINES WHERE BACKFLOW AND CROSS CONNECTION MAY OCCUR. INSTALLAD TO TRAP SEAL PRIMERS (ANCON MS-810 WITH INTEGRAL VACUUM BREAKER OR SIMILAR) FOR FLOOR DRAINS AS

REQUIRED BY PLUMBING CODE OR AS DIRECTED BY THE PLUMBING INSPECTOR. PROVIDE VALVES AS SHOWN ON THE DRAWINGS OR AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. INSTALL ISOLATION VALVES AT WATER METER, HOT WATER TANKS, EACH EXTERIOR HOSE BIB, ALL CONNECTIONS TO EQUIPMENT AND IN ALL BRANCHES, FIXTURES OR GROUP OF FIXTURES. PLUMBING FIXTURES SHALL BE AS SPECIFIED ON DRAWINGS OR APPROVED EQUAL.

ALL PIPING SHALL BE CSA APPROVED AND MEET THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION. DOMESTIC WATER, ABOVE GRADE: USE COPPER TUBE, HARD DRAWN, TYPE L (OR PEX TUBING EQUIVALENT) FOR UP TO1 ½". LEAD FREE SOLDER JOINTS, WROUGHT COPPER OR BRONZE FITTINGS, PEX FITTING TO BE FULL DIAMETER. CAN BE INSTALLED FROM A SUITABLE MANIFOLD TO PLUMBING FIXTURES DOMESTIC WATER, BELOW GRADE: USE COPPER TUBE, SOFT ANNEALED, TYPE L IN LONG LENGTHS AND WITH NO BURIED JOINTS (OR EQUIVALENT).

WASTE AND VENT PIPING ABOVE GRADE: USE CAST, COPPER OR FIRE RATED PVC. WASTE AND VENT PIPING BELOW GRADE: CSA APPROVED PVC SUPPLY AND INSTALL FIRE STOPPING AS REQUIRED AROUND ALL PIPING PENETRATING FIRE SEPARATIONS OR AS REQUIRED BY AUTHORITIES. MAKE NECESSARY PROVISIONS FOR EXPANSION AND CONTRACTION OF PIPING AS PER MANUFACTURERS RECOMMENDATIONS.

VALVES ON HOT, COLD AND RECIRCULATING WATER PIPING SHALL BE AS FOLLOWS (OR EQUIVALENT): GATE VALVES - 2" AND SMALLER: RED & WHITE 207A GATE VALVES – 2 ½" AND LARGER: RED & WHITE 421A GLOBE VALVES – 2" AND SMALLER: RED AND WHITE 212 GLOBE VALVES – 2 ½" AND LARGER: RED & WHITE 400A CHECK VALVES – 2" AND SMALLER: RED & WHITE 4237 CHECK VALVES – 2 ½ AND LARGER: RED & WHITE 435A BALL VALVES – 1/4 THRU 2": RED & WHITE 5044A

PROVIDE AND INSTALL MECHANICAL EQUIPMENT SO THAT AVERAGE NOISE CRITERIA CURVES, AS OUTLINED IN ASHRAE GUIDE, ARE NOT SUBMIT VIBRATION ISOLATION SHOP DRAWINGS SHOWING ISOLATOR LOCATIONS, LOAD ON EACH ISOLATOR AND INERTIA SLAB POVIDE VIBRATION ISOLATORS FOR MECHANICAL MOTOR DRIVEN EQUIPMENT THROUGHOUT, UNLESS SPECIFICALLY NOTED

1" THICK INSULATION @ $0.035W/m^{\circ}C$ @ 38°C ON ALL LINES REQUIRING INSULATION CW TO HAVE FOIL VAPOR PROOF JACKET.

1/2" FOIL FACED INSULATION ON ALL SANITARY STACKS. 1/2" FOIL FACED VAPOR PROOF INSULATION WITHIN 6' OF ROOF FOR VENTS.

FOR PIPING RUN IN A PLUMBING WALL, WHERE SPACE IS RESTRICTED, A BATT OF R40 INSULATION ON EACH SIDE OF THE PIPELINE SHALL BE AN ACCEPTABLE ALTERNATIVE INSULATING METHOD. NOT PERMISSABLE FOR HEATING LINE OVER 140F, CW, OR HW PIPES 2" AND UP. HOT AND COLD PIPES IN PLUMBING WALL ARE TO BE A MINIMUM OF 12" APART WITH AN INSULATION SEPARATION.

FIRE STOP SYSTEM ACH CONTRACTOR TO SUBMIT ULC OR CUL APPROVED FIRE STOP SYSTEMS FOR EACH FIRE RATED WALL OR FLOOR PENETRATION CONFORMING TO LOCAL AUTHORITY STANDARDS AND REQUIREMENTS.

GENERAL ELECTRICAL NOTES:

CONTROLS AND EQUIPMENT PROVIDED BY OTHERS:

THERMOSTATS (INDIVIDUAL FOR ALL EQUIPMENT) EXIT AND EMERGENCY LIGHTING:

EXIT SIGNS AT ALL DOORS EMERGENCY LIGHTS IN ALL AREAS.

No.	Description ISSUED FOR PERMIT	Date 2024-01-03
	CO-OP, HUMBOLDT, SK	
F	ERTILIZER STORAG	GE
	MEP LAYOUTS	
roject ate		COM740 23-07-06
rawn	ру	Author Checker
hecke	MEP002	
cale	1/4	4" = 1'-0"

PO Box 296, 517 8th Ave.

Bow Island, AB, T0K 0G0

(403) 545-6048

www.jaycobuilders.ca

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NOTES, & DATUMS PRIOR TO COMMENCEMENT OF WORK AND SHALL NOTIFY THIS OFFICE OF ANY ERRORS OR OMISSIONS

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REPORT ANY ERRORS OR OMISSIONS TO THIS OFFICE PRIOR TO COMMENCEMENT OF WORK

-IT IS THE RESPONSIBILITY OF THE CONTRACTOR/CLIENT TO

ENSURE COMPLIANCE WITH CURRENT BUILDING CODE, AND LOCAL REGULATIONS, ON ITEMS NOT SHOWN, OR SPECIFICALLY

-CONCRETE SLAB ELEVATIONS, SUB-FLOOR ELEVATIONS, TOP OF FOOTING ELEVATIONS, AND DRIVEWAY SLOPE PRECENTAGES

ADEQUATE FILL AND FROST PROTECTION IN ACCORDANCE WITH

THE CONTRACTOR/CLIENT ACKNOWLEDGES THAT BY USING

THESE DRAWINGS, THE TERMS ABOVE SHALL APPLY TO ALL CONSTRUCTION DRAWINGS MADE BY JAYCO BUILDERS INC.

ARE SUGGESTED ONLY. CONTRACTOR/CLIENT TO VERIFY AND

THE CONTRACTOR/CLIENT IS RESPONSIBLE TO ENSURE

NOTES

PROHIBITED

LIABILITY

CLIMATIC LOAD CONDITIONS

GROUND SNOW LOAD	= 1.9 kPa
RAIN LOAD	= 0.1 kPa
1/50 YR. WIND LOAD	= 0.40 kPa
1/50 YR. WIND LOAD	= 0.40 kPa

GRADE ELEVATION:

FINISHED GRADE AROUND FOUNDATION TO BE A MINIMUM OF 3" BELOW THE INTERIOR (MAIN) FLOOR SLAB ELEVATION (TYP) AND SLOPE A MINIMUM OF 2% AWAY FROM CONCRETE FOUNDATION FACE FOR A MINIMUM OF 10'.

AS BUILT DRAWINGS:

- TRADES WILL BE PROVIDED ONE SET OF CLEAN PRINTS. THESE PRINTS ARE TO BE USED TO RECORD WORK AS ACTUALLY INSTALLED AND EXISTING AS-BUILT INFORMATION. TRADES SHALL ACURATELY RECORD ON THIS SET OF PLANS (RECORD DRAWINGS), ALL EQUIPMENT, ITEMS, COMPONENTS ETC. AS ACTUALLY INSTALLED ON THE JOB. ANY CHANGES TO THE WORK SHALL **BE SIMILABLY BECORDED**
- RECORD DRAWINGS SHALL BE CLEARLY MARKED IN RED INCLUDING ALL CHANGES TO THE ORIGINAL DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER A SET OF AS-BUILT DRAWINGS.

REQUIRED INSPECTIONS:

- LISTED BELOW ARE THE APPROXIMATE TIMES DURING WHICH THE ENGINEER SHOULD INSPECT EACH PROJECT:
- A FOUNDATION INSPECTION SHOULD BE COMPLETED WHEN A FOUNDATION COMPONENTS FORMS AND REINFORCEMENT HAS BEEN PLACED AND PRIOR TO ANY CONCRETE POUR.
- A FRAMING INSPECTION SHOULD BE COMPLETED WHEN ASSEMBLIES ARE BULT YET STILL EXPOSED ENOUGH TO VISIBLY CONFIRM ALL REQUIRED CONNECTIONS, FRAMING SPECIFICATIONS, AND COMPLIANCE WITH THE STRUCTURAL DRAWINGS, PRIOR TO
- INSTALLATION OF INSULATION. A FINAL INSPECTION SHOULD BE COMPLETED WHEN THE CONTRACTOR HAS C. COMPLETED HIS QUALITY CONTROL INSPECTION AND REVIEW. ASSEMBLIES ARE COMPLETE ALONG WITH ALL ELECTRICAL, MECHANICAL AND PLUMBING COMPONENTS.
- IF THE ABOVE INSPECTION TIMES CANNOT BE PROVIDED IN A SINGLE INSPECTION. CONFIRMATION OF ADDITIONAL INSPECTION TIMES IS REQUIRED TO BE PROVIDED TO THE
- ENGINEER BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE TO NOTIFY ENGINEER A MINIMUM OF 72 HOURS PRIOR TO DESIRED INSPECTION DATE.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE ENGINEER WITH AN UPDATED PROJECT SCHEDULE, COMPLETE WITH ALL CURRENT CHANGES AND UPDATES (AS APPLICABLE).

CONCRETE NOTES:

GENERAL:

- CONCRETE MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH CSA-A23.1-09.
- THE DESIGN IS BASED ON THE SOIL HAVING AN ALLOWABLE BEARING CAPACITY OF 3132 PSF (150KPA)
- REFER TO SPECIALTY ENGINEERS DRAWINGS FOR PILE DESIGN (BY OTHERS) REFER TO GEOTECHNICAL ENGINEERS REPORT CREATED IN REFERENCE TO APPLICABLE SITE.
- ALL CONCRETE, REINFORCEMENTS, ACCESSORIES AND PROCEDURES SHALL MEET OR EXCEED THE APPLICABLE CSA STANDARDS FOR THE PRODUCT. THE GENERAL CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER AT LEAST 48 HOURS
- (72 HOURS FOR OUT OF TOWN PROJECTS) PRIOR TO ALL CONCRETE POURS. PLACE CONCRETE AS A CONTINUOUS OPERATION STOPPING ONLY AT CONSTRUCTION JOINTS. CONSTRUCTION JOINTS SHALL BE ADEQUATELY DOWELED AND KEYED. IF NOT PROVIDED AS PART OF THIS DRAWING SET, DETAILS AND LOCATIONS OF CONSTRUCTION JOINTS SHALL BE PROVIDED BY THE CONTRACTOR AND REVIEWED BY THE STRUCTURAL ENGINEER.
- CONSTRUCTION JOINTS SHALL BE MADE AND LOCATED SO AS NOT TO SIGNIFICANTLY IMPAIR THE STRENGTH OF THE STRUCTURE. THE LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY THE STRUCTURAL CONSULTANT. SALB AND BEAM CONSTRUCTION JOINT DETAILS
- SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. CURING PROCEDURES AND PROTECTION OF CONCRETE SHALL CONFORM TO THE CSA 9 STANDARD. REFERENCE CSA A23.1-09, CLAUSE 7.4.1.5.X, TABLE 14, & 7.4.2.X.
- 10. MAXIMUM AGGREGATE SIZE FOR ALL CONCRETE SHALL BE 3/4". SLUMP SHALL BE 3" +/- 3/4". 11.
- IF ANY UNSOUND STRUCTURAL CONDITIONS ARE OBSERVED DURING CONSTRUCTION, REPORT 12. THEM IMMEDIATELY TO THE STRUCTURAL ENGINEER. 13. FINS ON CONCRETE SURFACES SHALL BE REMOVED. HONEYCOMB OR OTHERWISE DEFECTED
- CONCRETE SHALL BE REMOVED SUFFICIENTLY TO EXPOSE SOUND CONCRETE AND SHALL BE
- REPAIRED AS DIRECTED BY THE STRUCTURAL ENGINEER. WET DOWELING OF ANCHORING RODS AND REBAR IS NOT PERMITTED AND SHOULD BE 14. SECURED IN PLACE PRIOR TO CONCRETE BEING POURED.

REINFORCEMENT:

- REINFORCING STEEL SHALL BE DEFORMED BARS FREE FROM RUST, MUD, OIL OR OTHER BOND
- 400 MPA.
- TO STANDARD INDUSTRY PRACTICE.
- LAP ALL BARS 24 BAR DIAMETERS U.N.O. (MINIMUM LAP DISTANCE OF 12"). MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE 2".
- AT CORNERS PROVIDE BARS TO WRAP AROUND CORNER MINIMUM 24" LAP DISTANCE.
- REINFORCING STEEL MUST BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE WELDED WIRE FABRIC TO CONFORM TO CSA G30.5-M1982 (R1998) / ASTM A185/A 185M-07 7.

THICKENED FOOTINGS:

- REFER TO STRUCTURAL DRAWINGS FOR DIMENSION, PLACEMENT AND REINFORCING DETAILS. CONCRETE TO BE 32 MPA (28 DAY COMPRESSIVE STRENGTH) TYPE HS WITH AIR ENTRAINMENT OF 6% +/- 1%.
- ALL FOOTINGS ARE TO BE PLACED ON UNDISTURBED NATIVE MATERIAL.

FOUNDATION WALL / GRADE BEAMS:

REFER TO STRUCTURAL DRAWINGS FOR DIMENSIONS, PLACEMENT AND REINFORCING DETAILS. CONCRETE TO BE 32 MPA (28 DAY COMPRESSIVE STRENGTH) TYPE HS WITH AIR ENTRAINMENT OF 6% +/- 1%.

PAD FOOTINGS:

- REFER TO STRUCTURAL DRAWINGS FOR DIMENSION. PLACEMENT AND REINFORCING DETAILS. CONCRETE TO BE 32 MPA (28 DAY COMPRESSIVE STRENGTH) TYPE HS WITH AIR ENTRAINMENT OF 6% +/- 1%.
- ALL FOOTINGS ARE TO BE PLACED ON UNDISTURBED NATIVE MATERIAL

INTERIOR FLOOR SLAB:

- REMOVE ALL TOP SOIL, ORGANIC AND FROZEN MATERIAL.
- BACKFILL AS REQUIRED BY THE SITE CONDITIONS WITH APPROVED SOIL. FINAL 12" U.N.O. SHALL
- BE 1"- GRADED CRUSHED GRAVEL COMPACTED TO MIN 98% SPDD. BACK FILL SHALL BE COMPACTED TO A UNIFORM 98% SPDD (MIN) IN LIFTS NOT EXCEEDING 6".
- CONCRETE SHALL BE PLACED, SCREEDE AND FLOATED TO ENSURE A COMPACTED, FREE SLAB. CONCRETE TO BE 32 MPA (28 DAY COMPRESSIVE STRENGTH) TYPE HS WITH AIR ENTRAINMENT
- OF 6% +/- 1%.
- REINFORCE AS INDICATED ON THE STRUCTURAL DRAWINGS. INTEGRATE 1 1/4" DEEP SWA CUT CONTROL JOINTS. PLACEMENT AS SHOWN ON STRUCTURAL DRAWINGS.

PILES:

REFER TO MANUFACTURER'S SPECIFICATIONS. LOAD CAPACITY MUST MATCH OR EXCEED

CALCULATIONS. ALL PILES ARE TO BE PLACED IN UNDISTURBED NATIVE MATERIAL

STRUCTURAL STEEL (MILD STEEL):

- STRUCTURAL SIZE W SHAPES TO ASTM A572 GRADE 50. OTHER STRUCTURAL SIZE SHAPES, BAR SIZE SHAPES AND PLATES TO CSA G40.21M, 300 MPA WELDABLE GRADE.
- WELDING MATERIAL TO CSA W48. ANCHOR BOLTS TO ASTM A307.
- CAN/CGSB-1.181.
- 1-73A
 - DESIGN AND DETAIL CONNECTIONS TO CSA S16 AND AS PER LOADS INDICATED ON THE STRUCTURAL DRAWINGS.
 - WELDING TO CSA W59.1
 - PRACTICE
 - PAINT STEEL SURFACE WITH ONE COAT OF PRIMER. UNO
- 12. STRUCTURAL STEEL.
- ALL BOLTS TO BE TORQUED TO TURN OF NUT METHOD. 13. AFTER ERECTION PRIME ALL WELDS, ABRAISIONS, BOLTED 14
- SURFACES TO BE IN CONTACT WITH CONCRETE. 15. STANDARD G164

WOOD FRAMING:

- BETTER CONSTRUCTION SHEATHING (OSB). BY 1 1/2" X 1 1/2" BLOCKING OR T&G EDGE JOINT. RECOMMENDED BY SHEATHING MANUFACTURER. SECTION 23, WOOD FRAME CONSTRUCTION. NAILS, SPIKES, STAPLES TO CONFORM TO CSA B111. PRESSURE TREATED LUMBER TO CONFORM TO CSA 080.15. BRUSHED COATED WITH NON-LEACHING PRESERVATIVE. ADMINISTRATIVE BOARD. 10. BASED ON THE FOLLOWING NAIL SIZE AND SPACING: 9" O/C. NAILING / BOLTING PATTERNS. THE COLUMN NAILING PATTERN AND NAILED FROM EACH SIDE TOGETHER BASED ON THE FOLLOWING NAIL SIZE AND SPACING: 12" O/C. NAILING / BOLTING PATTERNS. OF THE BUILT-UP BEAM. NAILING PATTERN AND NAILED FROM EACH SIDE. EXTERIOR LOAD BEARING WOOD FRAMED WALLS: FACE GRAIN PERPENDICULAR TO WALL STUDS. INTERMEDIATE FRAMING MEMBERS. ANCHOR WALL WITH PL400 OR EQUIV. CONSTRUCTION ADHESIVE AS WELL AS WITH MECHANICAL FASTENERS (AS NOTED) AND SHEATHING OVERLAP MINIMUM 12" ONTO FLOOR SYSTEM. **BEAMS AND TRUSSES:** AND LAYOUT DRAWINGS AS REQUIRED. STAIR NOTES: ALL STAIR AND LANDING SURFACES SHALL HAVE A FINISH THAT IS SLIP RESISTANT. ALL EXTERIOR STAIRS SHALL BE DESIGNED TO BE FREE OF ICE AND
- SNOW ACCUMULATION.
- NO FLIGHT OF STAIRS SHALL HAVE A VERTICAL RISE OF MORE THAN 145" BETWEEN LANDINGS.

PREFABRICATED WOOD JOISTS:

CSA STANDARD 086.

4.1 Recommendation - Community Development Coordinator. Report - Discretionary Use Application - Fertilize ... | Page - 29

REDUCING COATINGS AND SHALL CONFORM TO CSA G30.18-09 MINIMUM YIELD STRENGTH OF ALL REINFORCEMENT STEEL SHALL BE CHAIRED AND SECURED IN PLACE WITH STANDARD TIES,

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PREFABRICATED WOOD JOISTS TO BE DESIGNED IN ACCORDANCE WITH

CERTIFIED TRUSS MANUFACTURER TO PROVIDE DESIGN INFORMATION

USE 2 1/2" NAILS @ 4" O/C AT PANEL EDGES AND 12" O/C ALONG USE SPF #2 & BETTER GRADE STUDS @ 16" O/C. STAGGER DOUBLE TOP PLATE PLATE SPLICES A MINIMUM OF 48". USE A SINGLE BOTTOM PLATE.

ALL WALLS TO BE CONSTRUCTED AND ANCHORED AS PER DETAILS. ALL WALLS TO BE SHEATHED WITH MINIMUM 7/16" OSB INSTALLED WITH

2 PLY ENGINEERD MEMBERS – REFERR TO MANUFACTURER'S FIRST SET OF NAILS TO BE LOCATED 3" FROM THE BEGINNING AND END BUILT UP BEAMS GREATER THEN 2 PLIES TO FOLLOW THE ABOVE

2 PLY 2X10 MEMBERS - 4 ROWS 10D COMMON NAILS @ 9" O/C. 2 PLY ENGINEERD MEMBERS - REFERR TO MANUFACTURER'S

EXCEPT AS SHOWN OTHERWISE ON THE STRUCTURAL DRAWINGS, WOOD FRAMING TO BE IN ACCORDANCE WITH NBC 2015, PART 9,

PLYWOOD TO CSA 0121-08 (R2013) DOUGLAS FIR PLYWOOD, CSA

MATERIAL TO BE HOT DIPPED GALVANIZED SHALL COMPLY WITH CSA

FABRICATOR TO BE CERTIFIED TO CSA W47.1 DIVISION 1 OR 2. MINIMUM WELDS FOR CONNECTIONS SHALL BE 3/16" FILLET WELDS

PAINT FOR PRIMER AS PER ZINC-RICH PRIMER AND TOUCH UP PAINTING – INORGANIC: CAN/CGSB-1-GP171, ORGANIC, READY MIXED:

PAINT FOR PRIMER AS PER CGSB 1-GP-40D, OR CISC/CPMA STANDARD

STRUCTURAL DRAWINGS. CONNECTION SHALL BE DESIGNED FOR THE

FABRICATION AND ERECTION TO CSA S16 AND CISC CODE OF STANDARD

NO BURNING OF HOLES SHALL BE ALLOWED ANYWHERE IN THE

CONNECTIONS AND ALL OTHER SURFACES NOT SHOP PRIMED, EXCEPT

JOISTS, HEADERS, LINTELS, WALL PLATES, STUDS, COLUMNS AND ALL

OTHER STRUCTURAL WOOD FRAMING MEMBERS TO BE SPF #2 &

0151-09 (R2014) - CANADIAN SODTWOOD PLYWOOD, AND CSA 0325-16

FLOOR SHEATHING TO BE 3/4" T&G SPRUCE NAILED TO JOOD JOISTS

WITH 8D RING NAILS @ 6" O/C MAX. ALONG SHEET PERIMETER AND 12" O/C MAX. ALONG IMTERMEDIATE FRAMING. EDGES TO BE SUPPORTED

ROOF SHEATHING TO BE 7/16" OSB SHEATHING GRADE O-2 NAILED TO WOOD ROOF FRAMING @ 24" O/C. FASTEN WITH 8D NAILS OR STAPLES

@ 6" O/C MAX. ALONG SHEET PERIMETER AND 12" O/C MAX ALONG

INTERMEDIATE FRAMING. PROVIDE H-CLIPS AT UNSUPPORTED EDGES. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES UNLESS OTHERWISE

PRESSURE TREATED LUMBER WHICH IS CUT SHALL BE DOUBLE

ALL LUMBER IS TO HAVE GRADE STAMP CLEARLY VISIBLE FOR AN AGENCY CERTIFIED BY THE CANADIAN LUMBER STANDARDS

LAMINATIONS OF BUILT UP WOOD COLUMNS TO BE NAILED TOGETHER

2 PLY MEMBERS UP TO 2X6 – 2 ROWS OF 10D COMMON NAILS @

2 PLY 2X8 MEMBERS - 3 ROWS 10D COMMON NAILS @ 9" O/C.

FIRST SET OF NAILS TO BE LOCATED 3" FROM THE TOP AND BOTTOM OF

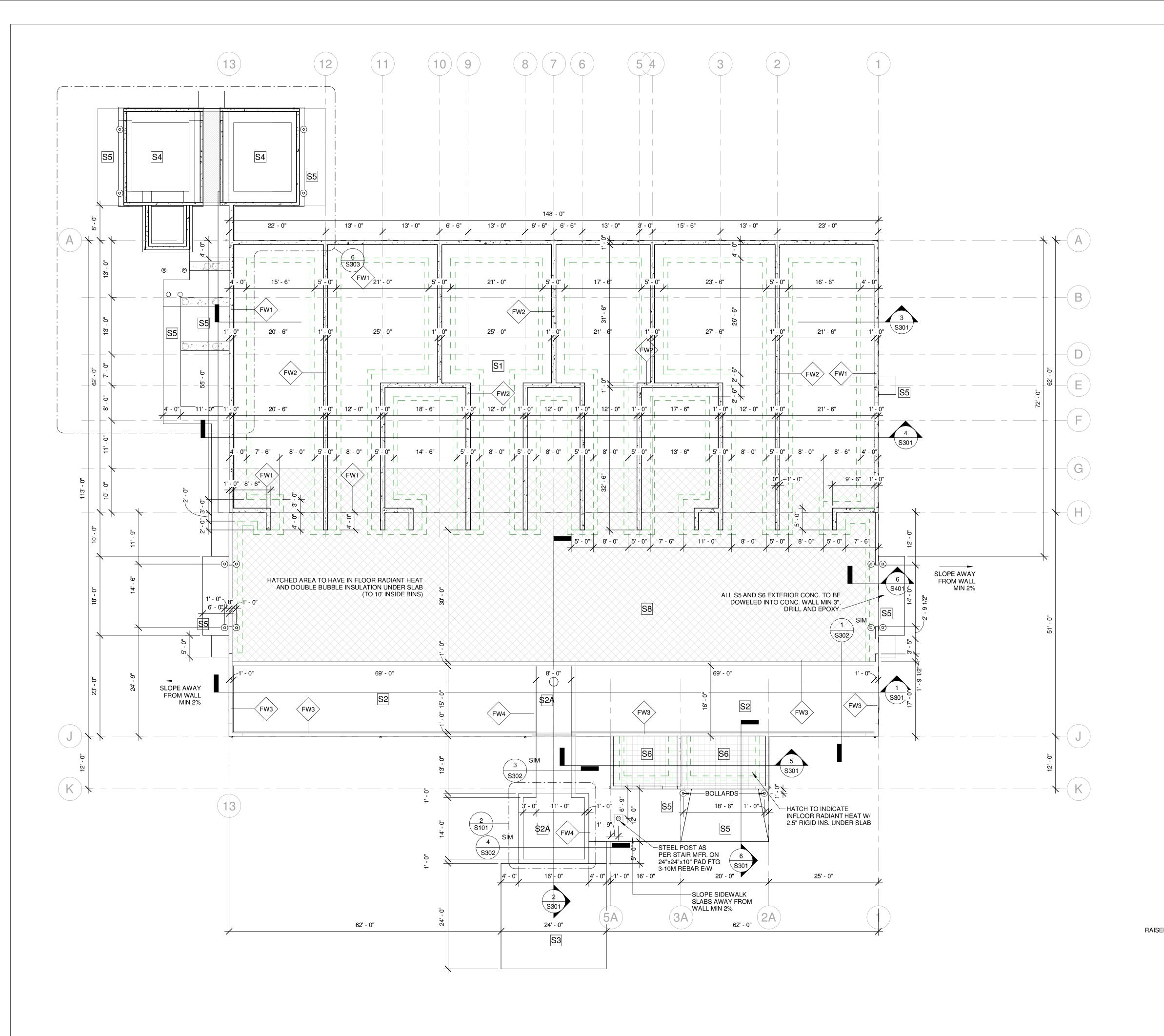
BUILT-UP COLUMNS GREATER THEN 2 PLIES TO FOLLOW THE ABOVE

LAMINATIONS OF BUILT UP BEAMS AND HEADERS SHALL BE NAILED

a. 2 PLY MEMBERS UP TO 2X6 – 2 ROWS OF 10D COMMON NAILS @

2 PLY 2X8 MEMBERS - 3 ROWS 10D COMMON NAILS @ 12" O/C. 2 PLY 2X10 MEMBERS - 4 ROWS 10D COMMON NAILS @ 12" O/C.

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APPLICABLE BUILDING CODE. - THE CONTRACTOR/CLIENT ACKNOWLEDGES THAT BY USING THESE DRAWINGS, THE TERMS ABOVE SHALL APPLY TO ALL CONSTRUCTION DRAWINGS MADE BY JAYCO BUILDERS INC.	
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FERTILIZER STORAGE STRUCTURAL NOTES	
Project number COM740	
	23-07-06 Author
Checked by	Checker
S001	
Scale	



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4.1 Recommendation - Community Development Coordinator.

ISSUED FOR PERMIT 2024-01-03

<u>S1</u>

6" CONC. SLAB 10M REBAR @ 12" O/C E/W 6MIL POLY M.B. 12" TYPE 33 - 1" MINUS CRUSHED GRAVEL S5

<u>S6</u>

10M REBAR @ 12" O/C E/W

6" CONC. SLAB 10M REBAR @ 12" O/C E/W

2.5" RIGID INSULATION

6MIL POLY M.B.

<u>S2</u>

12" CONC. SLAB 15M REBAR @ 12" O/C E/W BTM 6MIL POLY M.B. **6" COMPACTED GRANULAR FILL**

<u>S2A</u> 12" CONC. SLAB 10M REBAR @ 12" O/C E/W TOP 15M REBAR @ 12" O/C E/W BTM 6MIL POLY M.B. **6" COMPACTED GRANULAR FILL**

<u>S3</u>

24" CONC. SLAB 2 LAYERS 20M REBAR @ 12" O/C E/W 6" COMPACTED GRANULAR FILL

<u>S4</u>

8" CONC. SLAB **BROOM FINISH** 15M REBAR @ 12" O/C E/W BTM **8" COMPACTED GRANULAR FILL**

/ 1/4" = 1'-0"

<u>FW1</u> (EXT BIN WALLS)

12"X48" CONC. WALL 4 ROWS 15M CONT. HORIZ EA. FACE 15M @ 12" O/C VERT EA. FACE

FW2 (INT. BIN WALLS)

12"X48" CONC. WALL 4 ROWS 15M CONT. HORIZ EA. FACE 15M @ 12" O/C VERT EA. FACE

<u>FW3</u>

12" CONC. WALL 4 ROWS 15M CONT. 15M @ 12" O/C VERT

FW4

12" CONC. WALL 15M CONT. @ 12" O/C HORIZ O/S FACE 15M @ 12" O/C VERT O/S FACE 10M CONT. @ 12" O/C HORIZ I/S FACE 10M @ 12" O/C VERT I/S FACE

<u>PW1</u>

8" CONC. WALL 15M CONT. @ 12" O/C HORIZ. 15M @ 24" O/C VERT

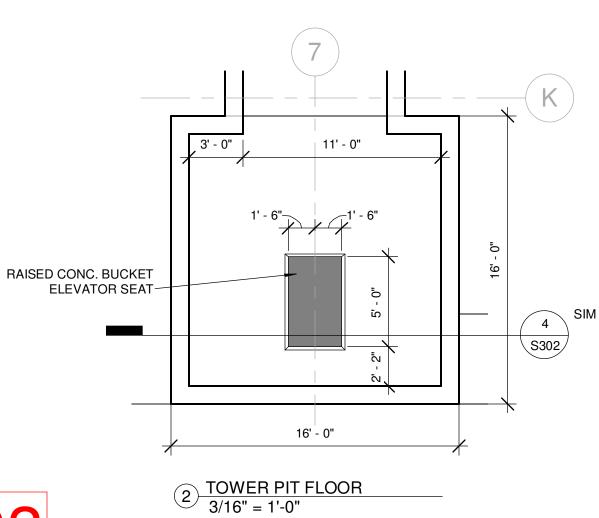
<u>PW1A</u>

8" CONC. WALL 3 ROWS 15M CONT. O/S FACE 10M @ 12" O/C VERT O/S FACE

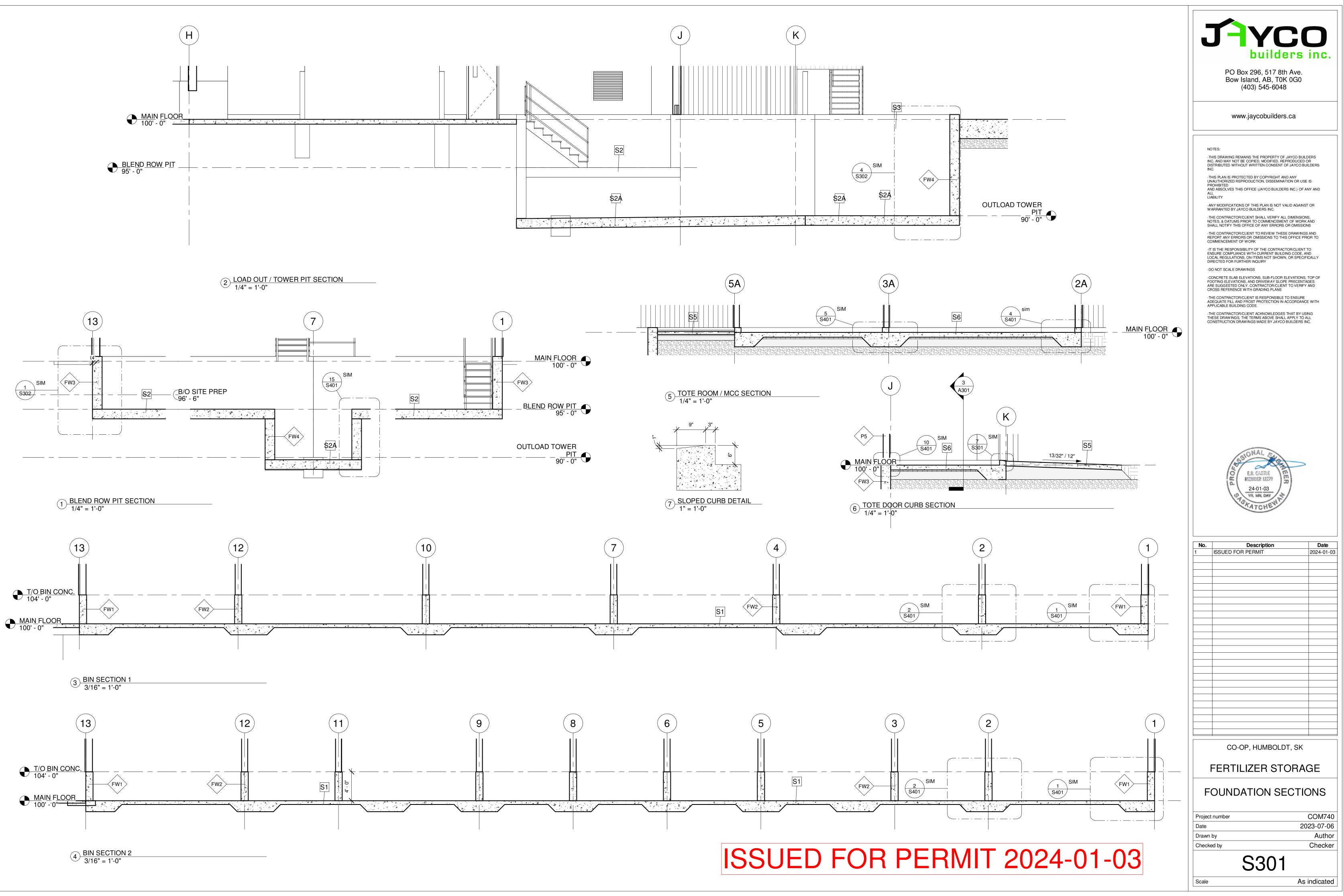
<u>PW1B</u>

8" CONC. WALL 4 ROWS 15M CONT. I/S FACE 15M @ 12" O/C VERT I/S FACE

FOUNDATION WALL LEGEND / 1/4" = 1'-0"



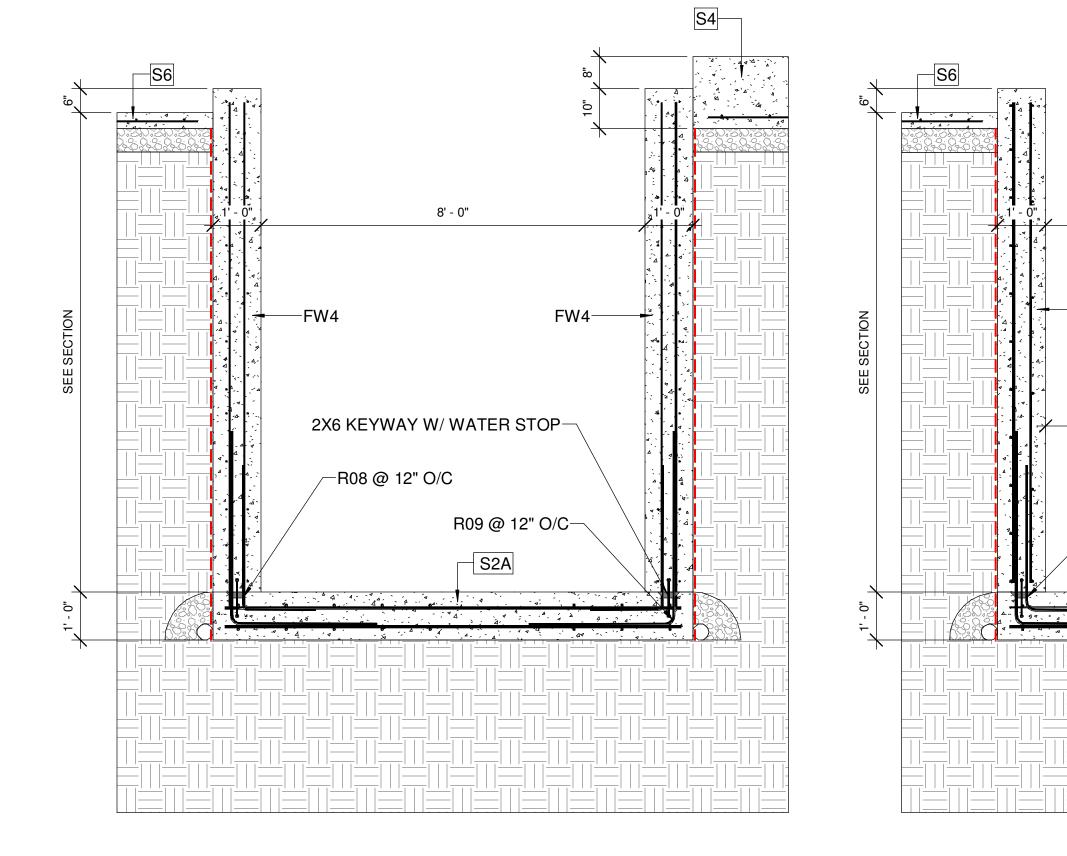
<u>(CO</u> builders inc. 6" CONC. SLAB, BROOM FINISH 6" COMPACTED GRANULAR FILL PO Box 296, 517 8th Ave. Bow Island, AB, T0K 0G0 (403) 545-6048 www.jaycobuilders.ca 6" COMPACTED GRANULAR FILL NOTES: -THIS DRAWING REMAINS THE PROPERTY OF JAYCO BUILDERS INC. AND MAY NOT BE COPIED, MODIFIED, REPRODUCED OR DISTRIBUTED WITHOUT WRITTEN CONSENT OF JAYCO BUILDERS -THIS PLAN IS PROTECTED BY COPYRIGHT AND ANY UNAUTHORIZED REPRODUCTION, DISSEMINATION OR USE IS PROHIBITED AND ABSOLVES THIS OFFICE (JAYCO BUILDERS INC.) OF ANY AND LIABILITY -ANY MODIFICATIONS OF THIS PLAN IS NOT VALID AGAINST OR WARRANTED BY JAYCO BUILDERS INC. -THE CONTRACTOR/CLIENT SHALL VERIFY ALL DIMENSIONS, NOTES, & DATUMS PRIOR TO COMMENCEMENT OF WORK AND SHALL NOTIFY THIS OFFICE OF ANY ERRORS OR OMISSIONS -THE CONTRACTOR/CLIENT TO REVIEW THESE DRAWINGS AND REPORT ANY ERRORS OR OMISSIONS TO THIS OFFICE PRIOR TO COMMENCEMENT OF WORK -IT IS THE RESPONSIBILITY OF THE CONTRACTOR/CLIENT TO ENSURE COMPLIANCE WITH CURRENT BUILDING CODE, AND LOCAL REGULATIONS, ON ITEMS NOT SHOWN, OR SPECIFICALLY DIRECTED FOR FURTHER INQUIRY -DO NOT SCALE DRAWINGS -CONCRETE SLAB ELEVATIONS, SUB-FLOOR ELEVATIONS, TOP OF FOOTING ELEVATIONS, AND DRIVEWAY SLOPE PRECENTAGES ARE SUGGESTED ONLY. CONTRACTOR/CLIENT TO VERIFY AND CROSS REFERENCE WITH GRADING PLANS -THE CONTRACTOR/CLIENT IS RESPONSIBLE TO ENSURE ADEQUATE FILL AND FROST PROTECTION IN ACCORDANCE WITH APPLICABLE BUILDING CODE. -THE CONTRACTOR/CLIENT ACKNOWLEDGES THAT BY USING THESE DRAWINGS, THE TERMS ABOVE SHALL APPLY TO ALL CONSTRUCTION DRAWINGS MADE BY JAYCO BUILDERS INC. SIONAL EN 00 E.R. CASTLE MEMBER 12279 24-01-03 YR. MN. DAY Date No. Description ISSUED FOR PERMIT 2024-01-03 CO-OP, HUMBOLDT, SK FERTILIZER STORAGE FOUNDATION PLAN COM740 Project number 2023-07-06 Date Drawn by Author Checker Checked by S101 As indicated Scale



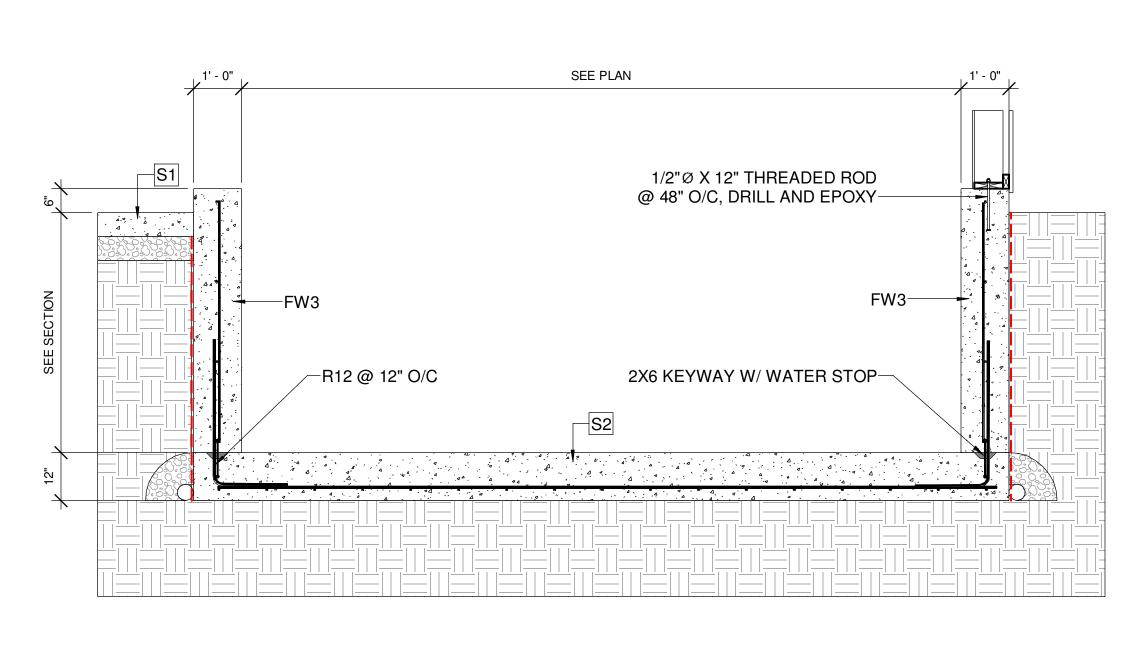
(3) LOAD OUT PIT SECTION 2 1/2" = 1'-0"

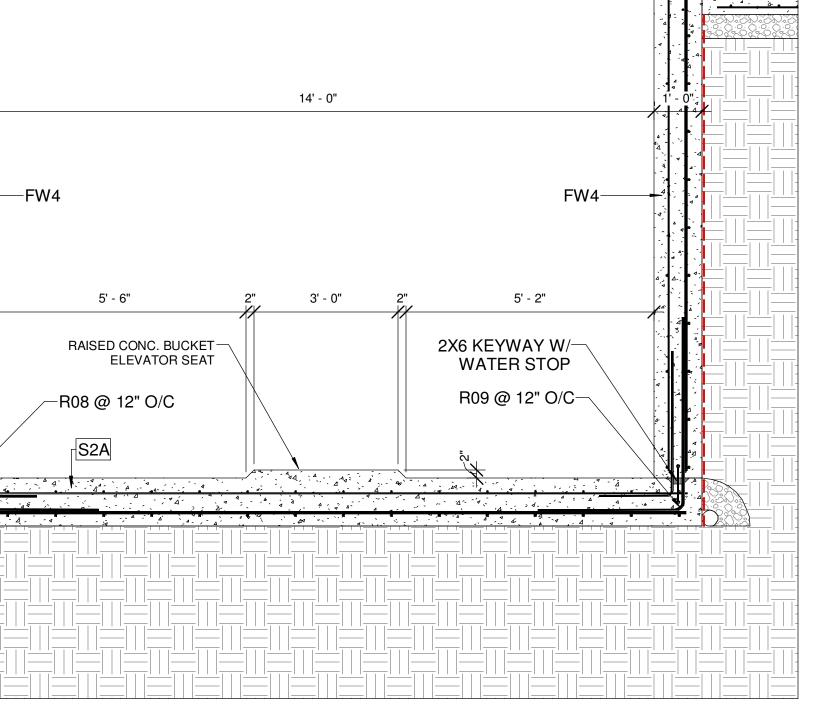
4.1 Recommendation - Community Development Coordinator.

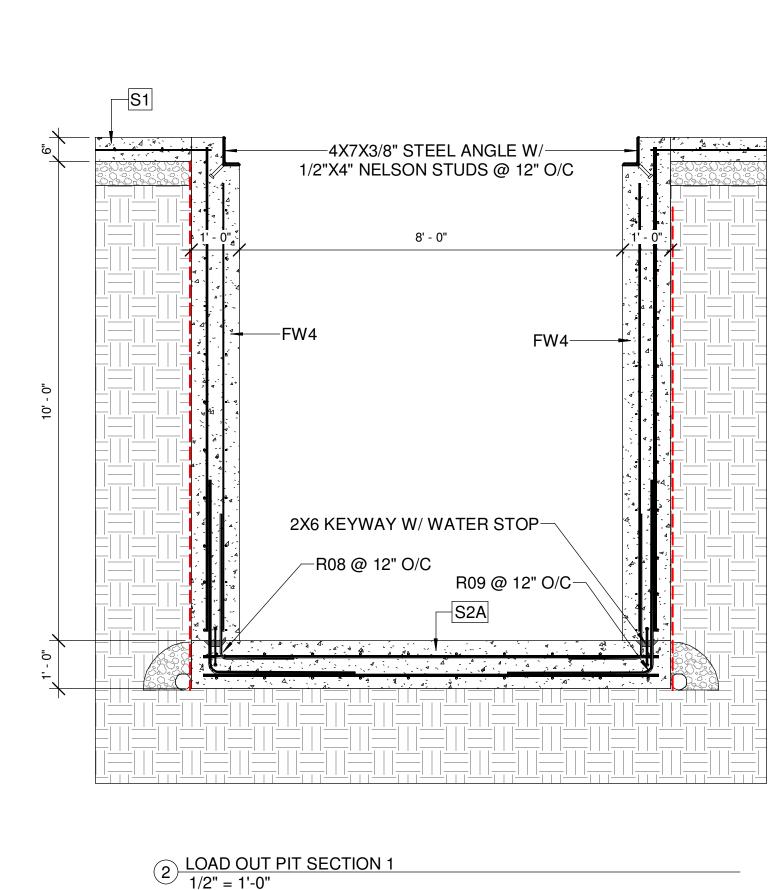
4 <u>TOWER PIT SECTION</u> 1/2" = 1'-0"



1 BLEND ROW PIT SECTION 1/2" = 1'-0"







/ 1/2" = 1'-0"



5' - 0"

15M

15M

3' - 9"

R01

3' - 8"

R02

' - 0"

- 0"|

10M

2' - 0"

2' - 0"

15M

R03

15M R04

2' - 9"

- 0" 1' - 0"

- 0" 1' - 0"

1' - 0"

1' - 0"

R05

1' - 8"

10M

15M B0

_/

R08

2' - 0" |1' - 0"| 1' - 9" |1' - 0"|

1' - 6"

10M

3' - 0"

2' - 0" 1' - 0" 2' - 0" 1' - 0"

R011

6' - 0"

2' - 0"

15M

R14

 REBAR LEGEND

 3/8" = 1'-0"

20M

15M

R09

2' - 0"

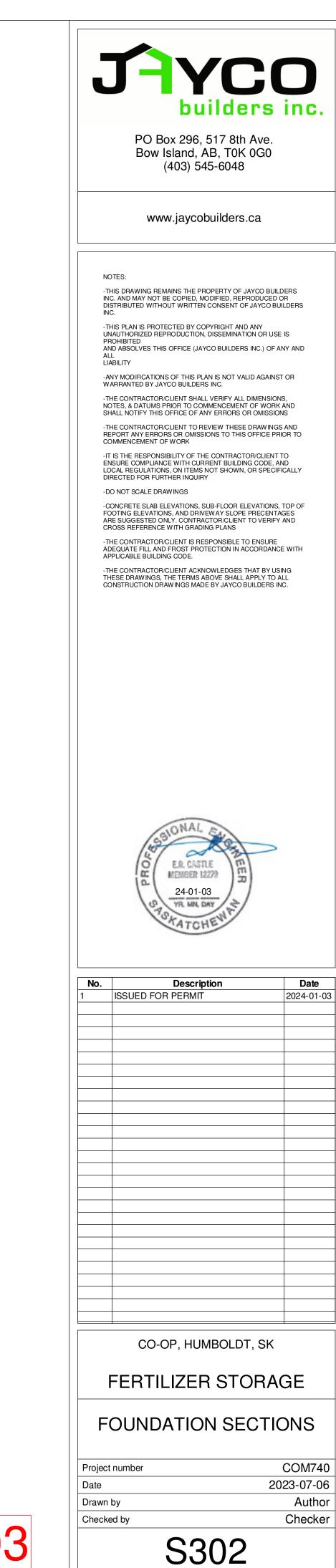
2' - 0"

2' - 0"

1' - 6'

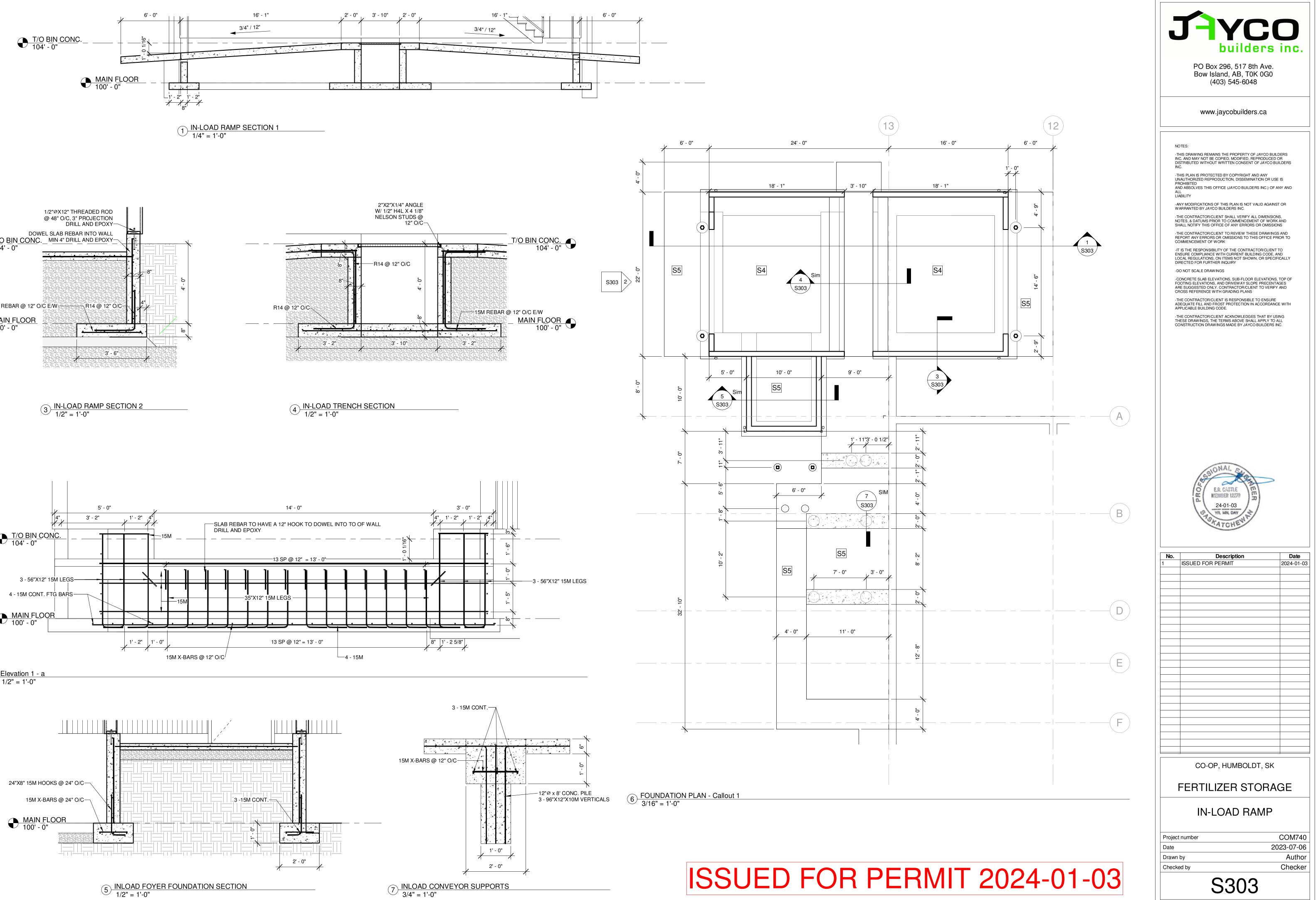
15M

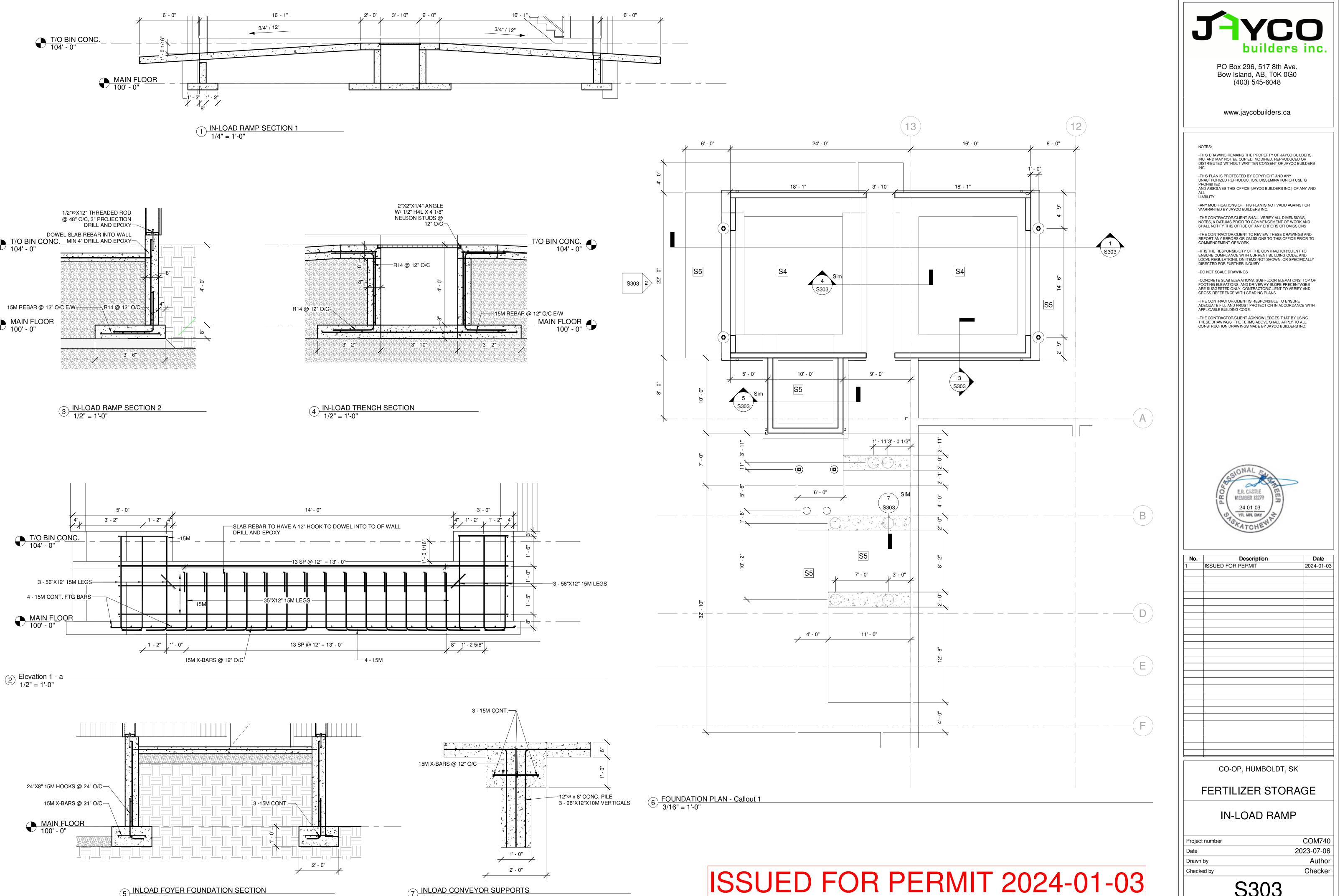
R12

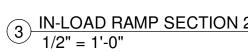


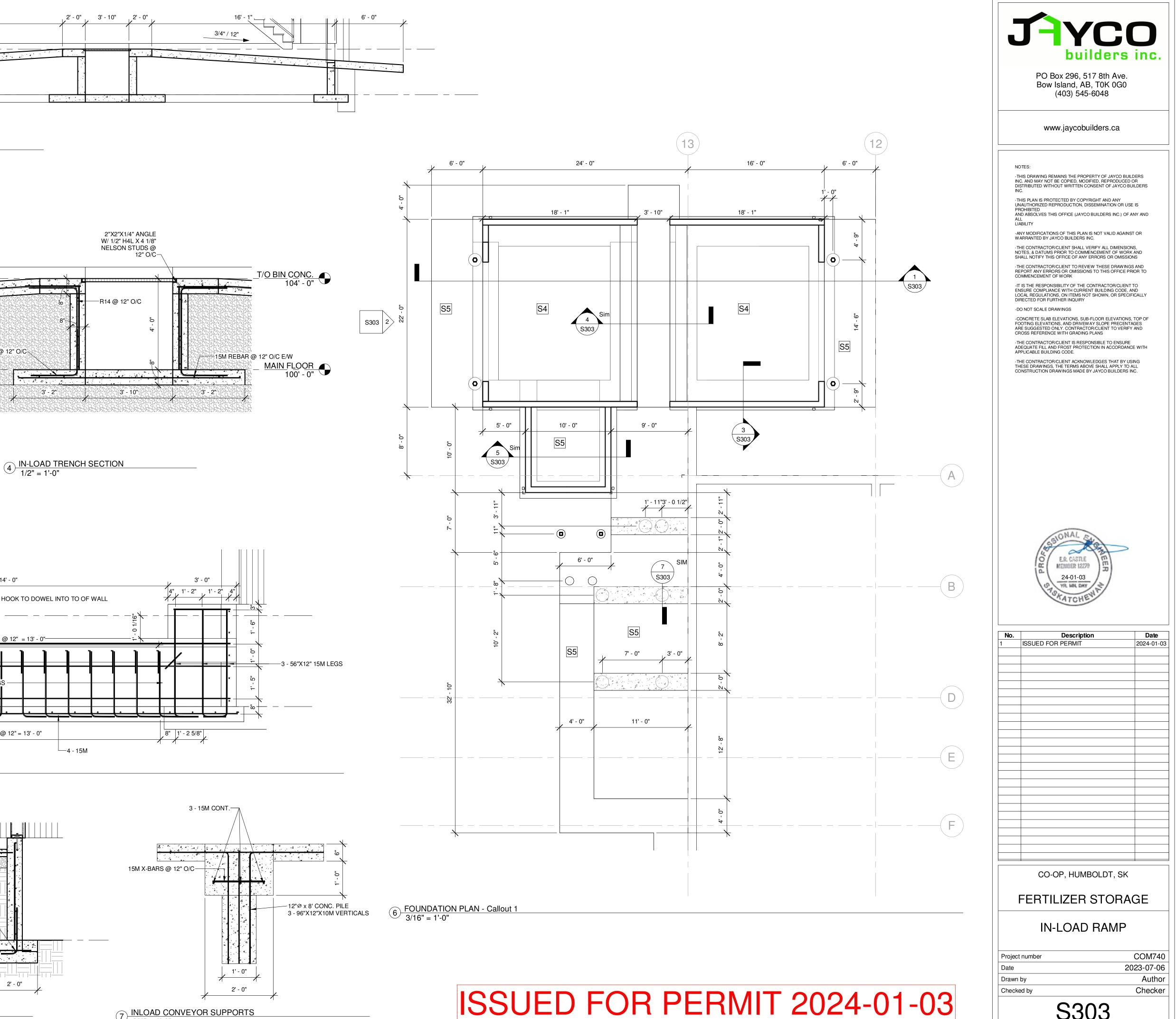
Scale

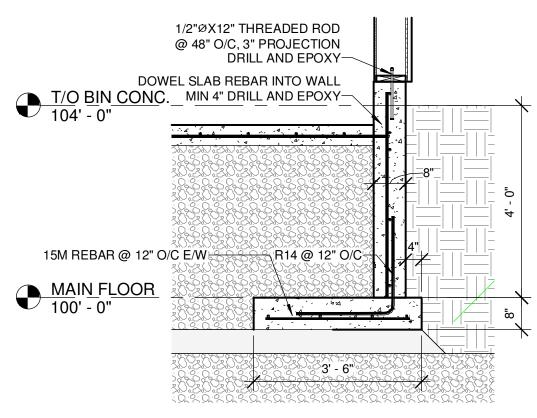
4.1 Recommendation - Community Development Coordinator.

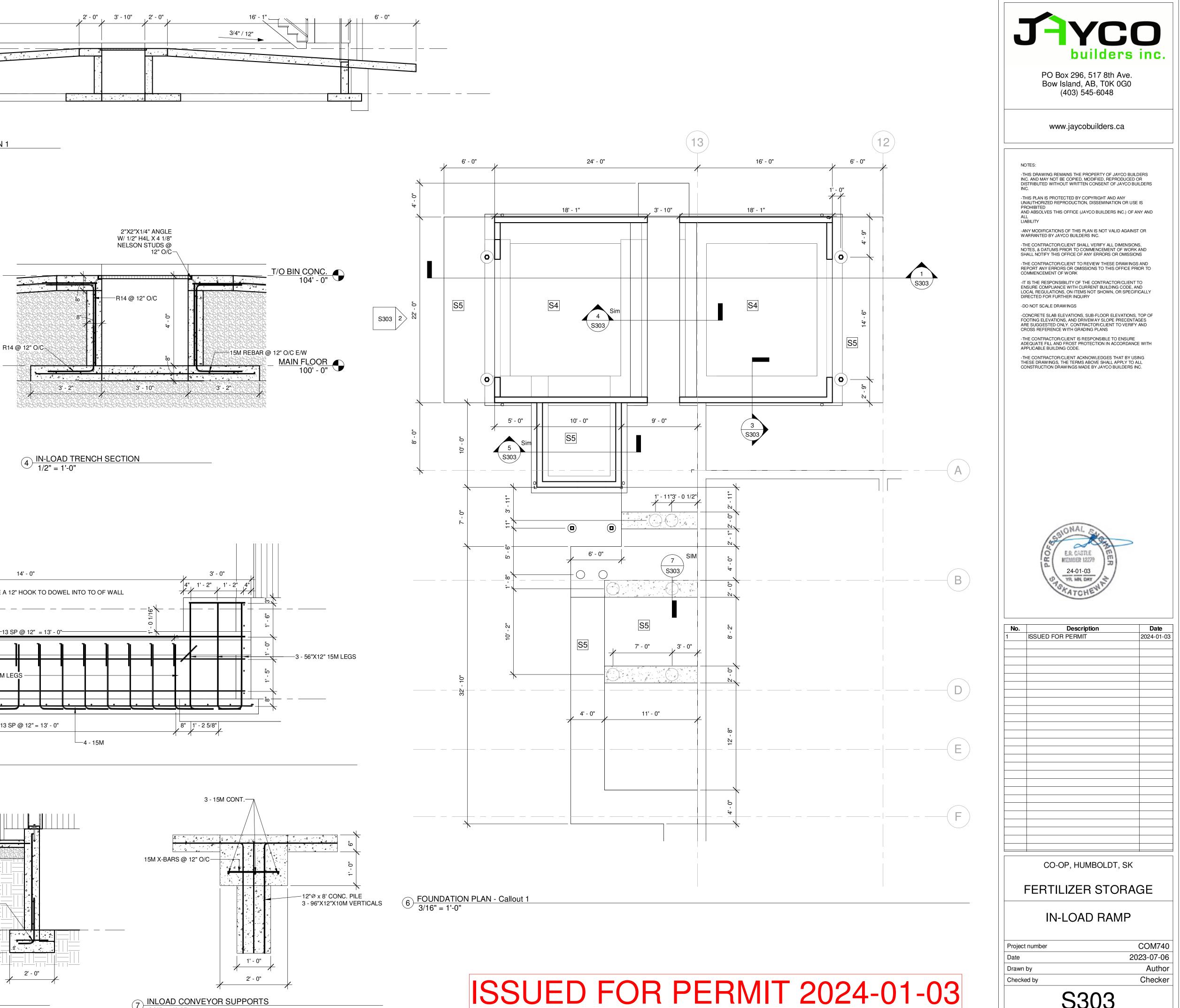


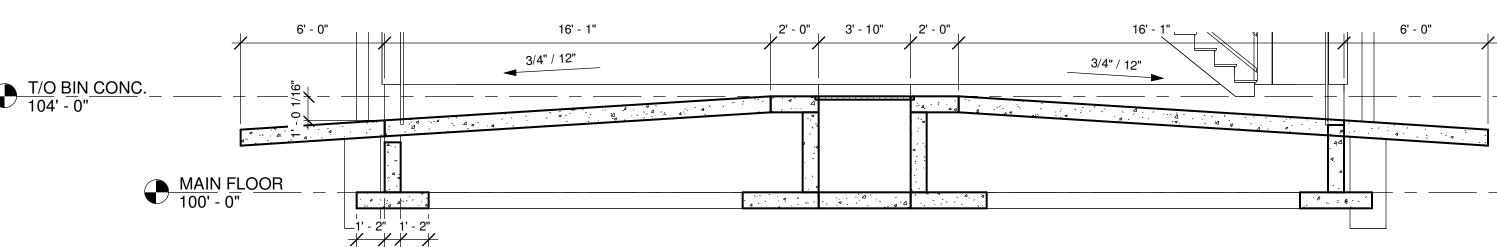








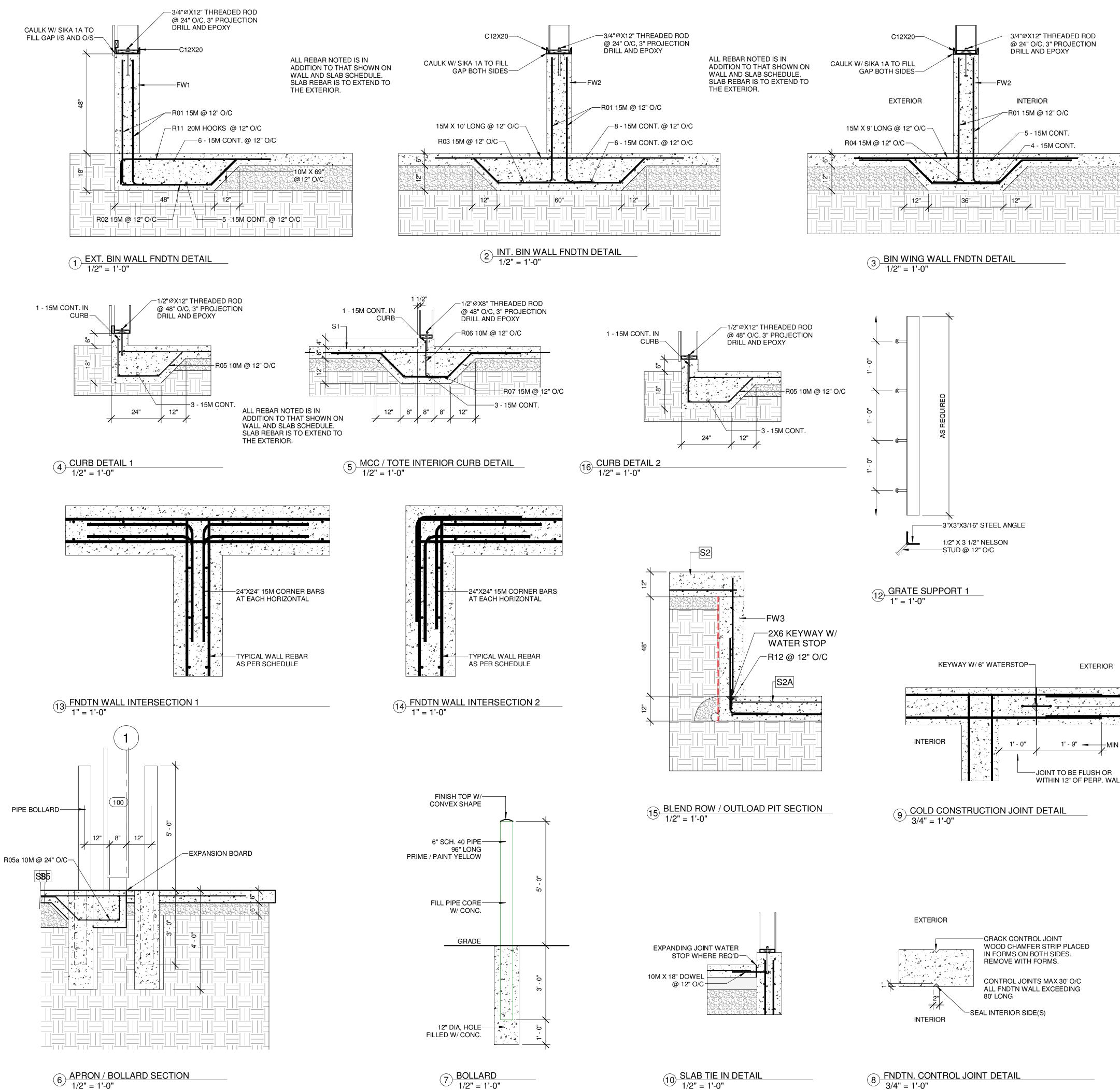




7 INLOAD CONVEYOR SUPPORTS 3/4" = 1'-0"

As indicated

Scale



4.1 Recommendation - Community Development Coordinator.

